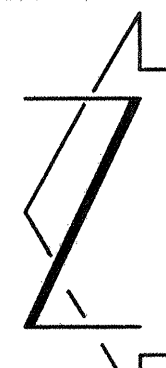
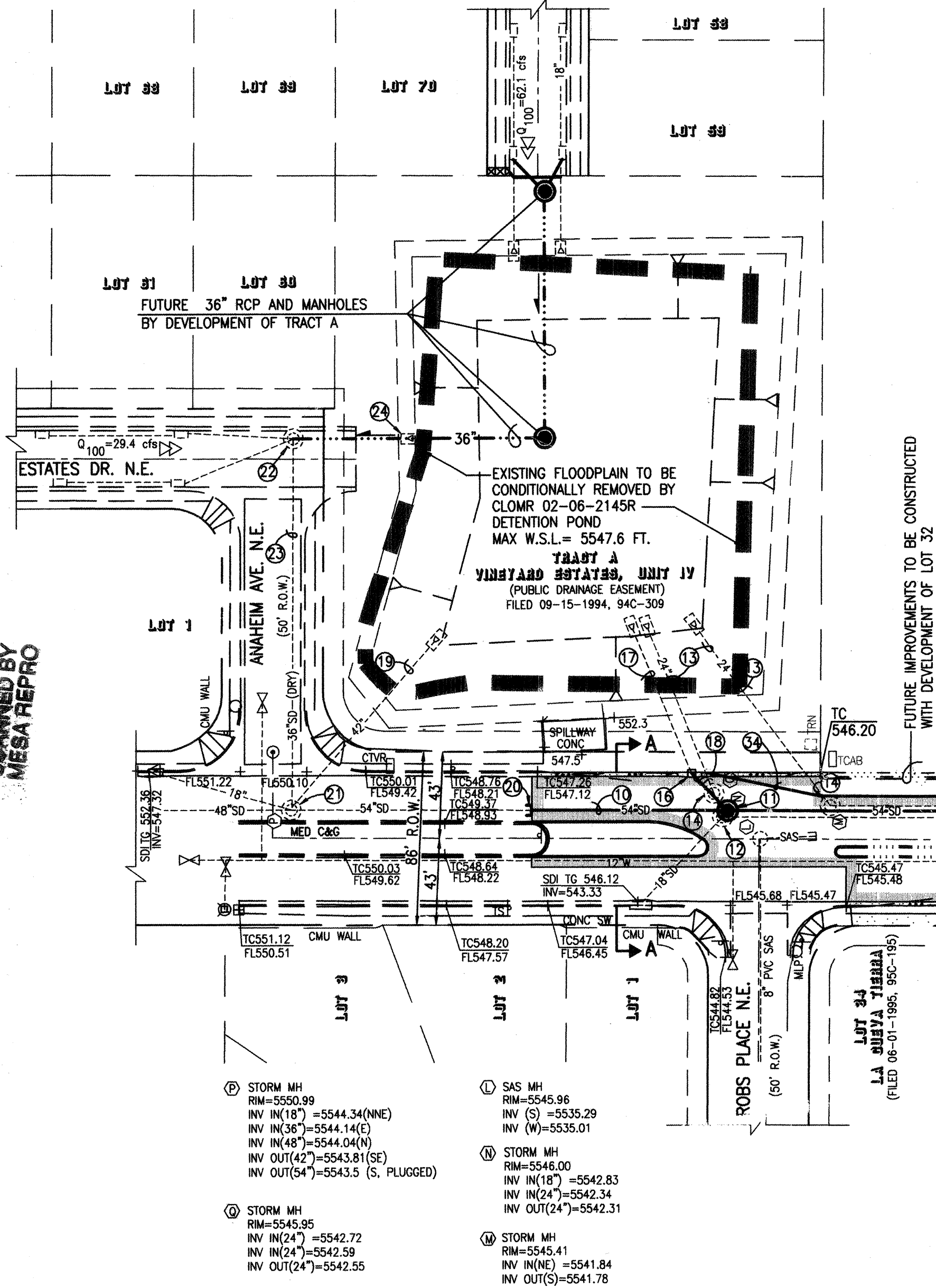


DRB# 1001463 (VENTURA VILLAGE)
DRB# 1001543 (DESERT RIDGE PLACE)



SCALE: 1" = 50'



KEYED STORM DRAIN NOTES

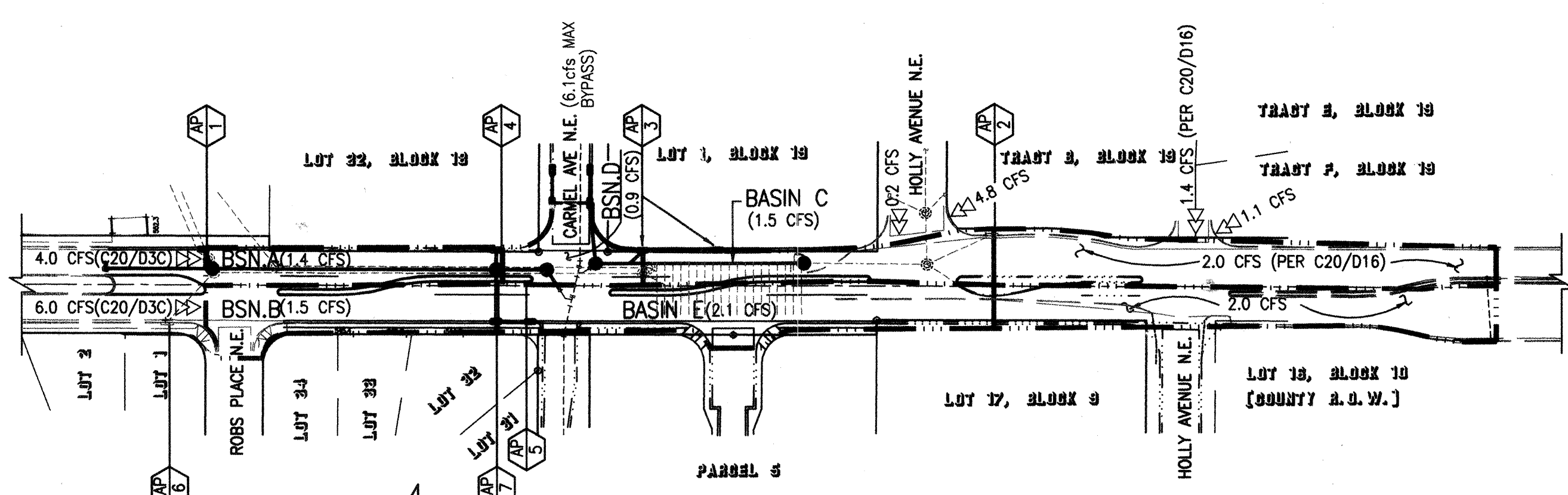
- NEW 60" RCP (CLASS III) STORM DRAIN @ S= 0.0250.
- CONNECT TO 60" STUB CONSTRUCTED BY PROJECT #693481 @ 5528.82.
- NEW 8" DIA. SDMH. INV. IN 5529.60(N); 5532.60(E); INV. OUT 5529.26
- NEW 60" RCP (CLASS III) STORM DRAIN @ S= 0.0250
- NEW 8" DIA. SDMH. INV. IN 5530.80(N); 5534.30(E); 5538.00(W) INV. OUT 5530.51
- NEW 18" RCP (CLASS III) STORM DRAIN @ S= 0.200
- NEW 18" RCP (CLASS III) STORM DRAIN @ S= 0.0150
- FUTURE DOUBLE "C" STORM INLET TO @ 5544.33; INV. OUT 5537.20 TO BE CONSTRUCTED WITH DEVELOPMENT OF LOT 32
- NEW DOUBLE "C" STORM INLET TO @ 5544.33 INV. IN 5538.85; INV. OUT 5538.64
- NEW SINGLE "A" STORM INLET TO @ 5544.37; INV. OUT 5539.31
- NEW 54" RCP (CLASS III) STORM DRAIN @ S= 0.0270
- NEW 6" DIA. SDMH. INV. IN 5537.50(N); INV. IN 5540.00(NE) INV. IN 5542.70(W); INV. OUT 5537.20
- EXISTING TEMPORARY SDMH TO BE REMOVED AND DISPOSED. 18" RCP LATERAL TO BE EXTENDED TO NEW MANHOLE.
- EXISTING 24" TEMPORARY CMP STORM DRAIN TO BE REMOVED AND DISPOSED.
- EXISTING TEMP. SDMH TO BE REMOVED AND DISPOSED.
- EXISTING TEMP. 24"x36" CMP ARCH CULVERTS TO BE REMOVED AND DISPOSED, TYP. OF 19.
- NEW SINGLE "C" STORM INLET TO 5545.82; INV. OUT 5540.23; INV. IN 5542.80 (VERIFY)
- EXISTING 24" TEMP. CMP STORM DRAIN TO REMAIN AS TEMPORARY DETENTION POND OUTLET AND TO BE TEMPORARILY CONNECTED TO BACK OF STORM INLET. 24" CMP STORM DRAIN TO BE REMOVED AND DISPOSED UPON ELIMINATION OF POND BY DEVELOPMENT OF TRACT A.

- NEW 24" RCP (CLASS III) STORM DRAIN @ S= 0.0100
- EXISTING 42" RCP TEMP. STORM DRAIN TO BE REMOVED AND DISPOSED
- EXISTING 54" PLUG TO BE REMOVED AND DISPOSED. POINT OF CONNECTION FOR NEW STORM DRAIN INV 5540.0 (VERIFY)
- EXIST. SDMH. SE OUTLET TO BE PLUGGED AND EAST INLET TO BE UNPLUGGED.
- EXIST. SDMH WEST OUTLET TO BE UNPLUGGED BY DEVELOPMENT OF TRACT A.
- EXIST. 36" "DRY" RCP STORM DRAIN, CONSTRUCTED BY CPN 3391.96 FOR FUTURE USE. TO BE PUT IN SERVICE BY PLUG REMOVAL BY DEVELOPMENT OF TRACT A.
- EXISTING TEMP. OUTLET TO BE REMOVED BY DEVELOPMENT OF TRACT A.
- NEW 24" RCP (CLASS III) STORM DRAIN @ S=0.0120.
- FUTURE INLETS AND LATERALS TO BE CONSTRUCTED BY/ WITH ADJACENT DEVELOPMENT OF LOT 32. MAX ALLOWABLE 100-YEAR FLOW BYPASS= 6.1 CFS PAST INLETS TO MAINTAIN FREE DRIVING LANE DURING 10-YEAR STORM IN VENTURA STREET.
- NEW 6" DIA SDMH INV 5530.60 (NW); INV 5532.60 (SE); INV 5532.10 (E); INV 5531.20 (S).
- NEW 42" RCP (CLASS III) STORM DRAIN @ S=0.0500
- NEW 6" DIA SDMH INV 5541.23(EXIST.); INV. OUT 5539.90
- NEW 18" RCP (CLASS III) STORM DRAIN @ S= 0.2000.
- NEW 18" RCP (CLASS III) STORM DRAIN @ S= 0.0200.
- NEW SINGLE "C" STORM INLET TO 5544.83; INV 5538.83 OUT; INV 5539.20 IN.
- NEW SINGLE "C" STORM INLET TO 5545.07; INV 5539.90.
- TEMPORARY EXTRUDED ASPHALT CURB
- EXISTING HEADWALL TO BE REMOVED AND DISPOSED
- EXISTING EXTRUDED CURB TO BE REMOVED AND DISPOSED

NOTES

- ALL IMPROVEMENTS SHOWN HEREON SHALL BE CONSTRUCTED BY CITY WORK ORDER UNLESS INDICATED OTHERWISE
- SEE SHEET 3 FOR SECTIONS AND DETAILS
- SEE SHEET 4 FOR BASELINE/R.O.W. PLAN
- UTILITY RELOCATIONS TO BE PERFORMED PRIOR TO CONSTRUCTION BY UTILITY OWNERS UNDER CONTRACT TO THE DEVELOPER.

PAVING AND STORM DRAINAGE IMPROVEMENTS PLAN



VENTURA STREET N.E. BASIN MAP

SCALE: 1" = 100'

STREET AND INLET ANALYSIS

ANALYSIS POINT	Q ₁₀₀ (CFS)	Q ₁₀ (CFS) ^A	S(ft./ft.)	10 YR. SPREAD (ft.) ^B	d ₁₀₀ (ft.)	Q _{inlet} (CFS)	RESIDUAL (CFS)
AP1	4.0 ^C	2.7	0.030	8.7	0.29	3.5 ^D (SGL. "C")	0.5
AP2	4.5 ^E	3.0	0.007	12.3	0.38	4.0 ^D (DBL. "A")	0.5
AP3 ^K	7.0	4.7	0.007	14.7	0.43	4.5 ^D (SGL. "C")	2.5
AP3 ^K	2.5	1.7	0.007	9.8	0.31	2.1 ^D (SGL. "C")	0.4
AP4	18.6 ^F	12.5 ^F	SAG	3.6	0.37	18.6 ^H (DBL. "C")	0.0 ^F
AP5	4.1	2.7	0.0025	14.5	0.43	3.1 ^D (SGL. "A")	1.0
AP6	6.0 ^G	4.0	0.030	10.3	0.33	4.9 ^D (DBL. "A")	1.1
AP7	7.2 ^F	4.8	SAG	1.9	0.20	7.2 ^H (DBL. "C")	0.0

- A-Q10 CONSERVATIVELY APPROXIMATED TO BE 67% OF Q100 (D.P.M. 22.2 TABLE A-3)
B-15' LEAVES A 10' WIDE DRIVING LANE (25' F-F)
C-FROM FILE C20/D3C, VINEYARD ESTATES UNIT IV
D-FROM DPM PLATES 22.3 D-5.6
E-FROM FILE C20/D16 (FURRS) AND ADDITIONAL ANALYSIS
F-FLOW SHOWN IS 2xQ100 FOR SAG DESIGN
G-ASSUMES SAME FLOW AS EAST SIDE OF STREET PER C20/D3C
H-USING HAESTAD FLOWMASTER 6.0 WITH 50% GRATE CLOGGING.
J-ASSUMES MAXIMUM ALLOWABLE 100-YEAR FLOW OF 6.1 CFS BYPASSING CARMEL INLETS
K-AP3 HAS 2 INLETS WHICH ARE ANALYZED SEPARATELY.

STREET SUB-BASIN HYDROLOGY

(ZONE 3, 100% TREATMENT @ 5.02 CFS/AC)

BASIN	AREA (ac)	Q ₁₀₀ (CFS)
A	0.27	1.4
B	0.30	1.5
C	0.30	1.5
D	0.18	0.9
E	0.42	2.1

RECORD DRAWING

LEGEND

- | | | | |
|------|-------------------------------|----|--|
| CMP | CORRUGATED METAL PIPE | AP | ANALYSIS POINT |
| CTVR | CABLE TV RISER | ○ | METAL LIGHT POLE |
| FL | FLOWLINE | ⊗ | TELEPHONE RISER |
| INV | INVERT | ⊕ | ELECTRICAL PULL BOX |
| MAB | MAST ARM BASE | ⊖ | WOOD POWER POLE |
| MB | MAILBOX | ⊙ | EXISTING STORM DRAIN MANHOLE |
| MLP | METAL LIGHT POLE | ⊗ | PROPOSED STORM DRAIN MANHOLE (BY CITY WORK ORDER) |
| RCAP | REINFORCED CONCRETE ARCH PIPE | ⊕ | EXISTING GATE VALVE |
| RCP | REINFORCED CONCRETE PIPE | ⊖ | FUTURE CONSTRUCTION |
| SAP | SANITARY SEWER | ⊙ | EXISTING IMPROVEMENTS |
| SD | STORM DRAIN | ⊗ | R.O.W. |
| SDI | STORM DRAIN INLET | ⊕ | EXISTING FLOODPLAIN TO BE REMOVED |
| TS | TRAFFIC SIGNAL | ⊖ | BY POST-CONSTRUCTION LOWR |
| TSB | TRAFFIC SIGNAL BOX | ⊙ | PROPOSED CONCRETE (BY CITY WORK ORDER) |
| TC | TOP OF CURB | ⊗ | PROPOSED PERMANENT ASPHALT PAVEMENT (BY CITY WORK ORDER) |
| TCAB | TOP OF GRADE | ⊕ | PROPOSED TEMPORARY ASPHALT PAVEMENT (BY CITY WORK ORDER) |
| TG | TOP OF GRATE | ⊖ | |
| TRN | TRANSFORMER | ⊙ | |
| TRS | TRAFFIC SIGNAL | ⊗ | |
| TS | TRAFFIC SIGN | ⊕ | |
| W | WATER | ⊖ | |

POND CALCULATIONS

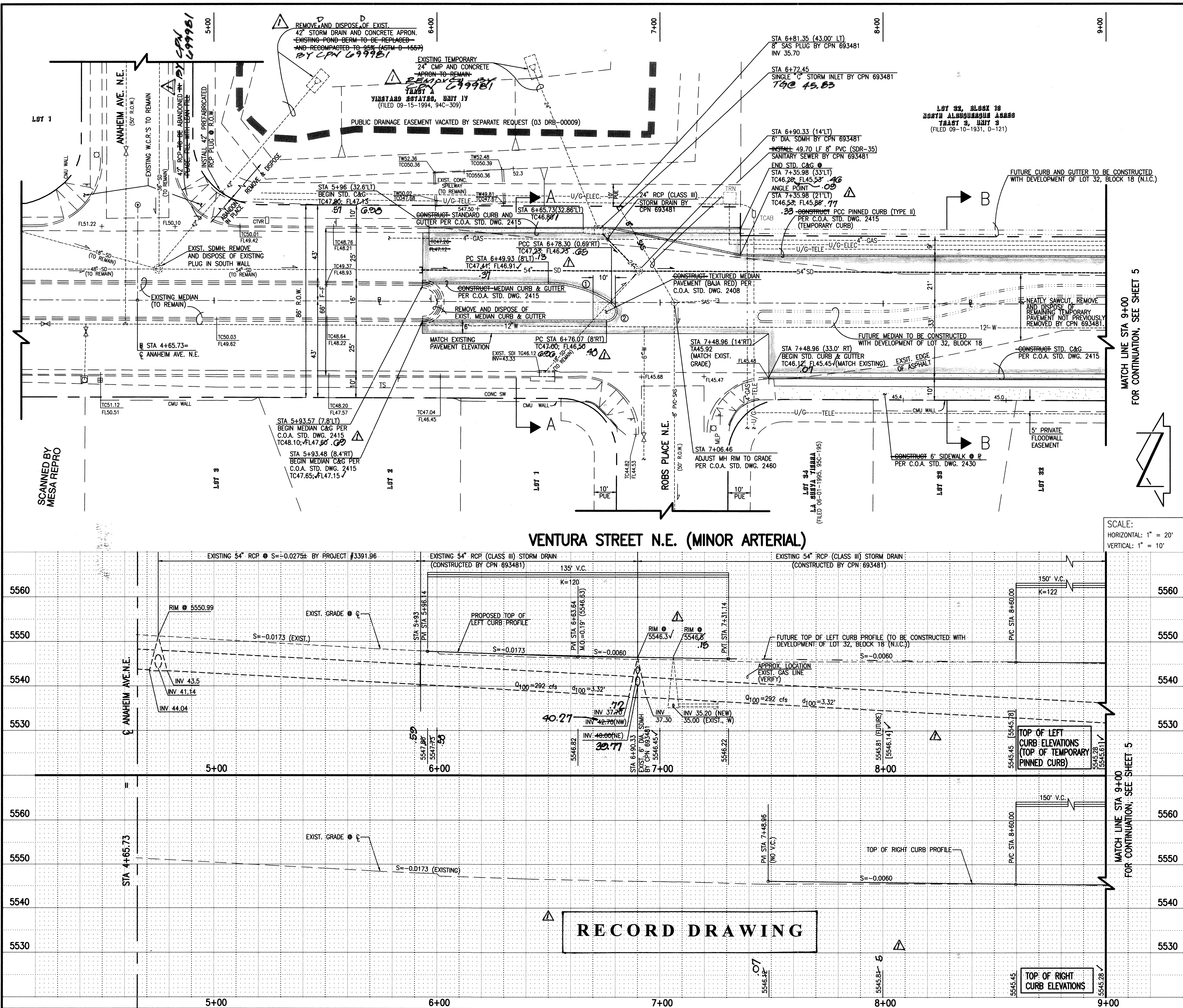
THE PROPOSED STORM DRAIN MODIFICATIONS IN VENTURA STREET N.E. WILL REDUCE THE VOLUME OF RUNOFF ENTERING THE EXISTING POND TO AN AMOUNT LESS THAN ITS EXISTING CAPACITY.
V_{POND} = 223,500 CF @ W.S.L. = 5,550 FT (EXIST.)
V₁₀₀ = 3.913 AC-FI = 170,450 CF (BASIN 922.3, NOB CLOMR AHYMO)
AS PROPOSED, ONE 24" OUTLET PIPE WILL REMAIN IN SERVICE TO DRAIN THE POND, AS CALCULATED BY AHYMO, THE MAX W.S.L. WILL BE 5547.6 FT.



JEFF MORTENSEN & ASSOCIATES, INC.
6010-B MIDWAY PARK BLVD. N.E.
ALBUQUERQUE, N.M. 87109
ENGINEERS & SURVEYORS (505) 345-4250
FAX: 505 345-4254 E-mail: jma@jma-inc.com

VENTURA STREET N.E. PAVING AND STORM DRAINAGE IMPROVEMENTS PLAN, CALCULATIONS AND BASIN MAP VENTURA STREET N.E. - ROB'S PLACE N.E. TO HOLLY AVENUE N.E.

DESIGNED BY	NO.	DATE	BY	REVISIONS	JOB NO.
G.M.					2002.0716
DRAWN BY					2001.0608
S.G.H./JP					
APPROVED BY					
G.M.					
					DATE 12-2002
					SHEET 3 OF 10
					CITY PROJECT # 703981



STREET PAVING IMPROVEMENTS:

- ALL SLOPES AS SHOWN ON PROFILES ARE BASED ON STREET CENTERLINE STATIONING EXCEPT CUL-DE-SACS AND EYEBROWS WHERE STATIONING IS ALONG FACE-OF-CURB.
- WHERE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK OR PAVEMENT IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. CURB AND GUTTER AND SIDEWALK SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR PER C.O.A. STD. DWGS. 2415 AND 2430, RESPECTIVELY, AT THE CONTRACTOR'S EXPENSE.
- ALL DIMENSIONS OF CURB AND CURB RETURNS ARE SHOWN TO FACE-OF-CURB.
- ALL WHEELCHAIR RAMPS MUST BE CONSTRUCTED UNDER THIS WORK ORDER.
- ALL CURB AND CURB AND GUTTER SHOWN HEREON SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD DRAWING 2415 UNLESS OTHERWISE NOTED.
- STRIPING BY CONTRACTOR WILL BE REQUIRED PRIOR TO FINAL ACCEPTANCE.
- REFER TO SHEET 2 FOR BASELINE/ R.O.W. PLAN
- REFER TO SHEET 7 FOR PAVING AND STORM DRAINAGE SECTIONS AND DETAILS
- REFER TO SHEET 7 FOR STRIPING AND SIGNAGE PLAN

STORM DRAIN NOTES:

- ALL STORM DRAIN TO BE CLASS III REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 6' DIAMETER TYPE 'C' PER C.O.A. STANDARD DRAWING 2101 UNLESS OTHERWISE NOTED.
- ALL STATIONING SHOWN HEREON IS BASED ON STREET CENTERLINE UNLESS OTHERWISE NOTED. SLOPES ARE BASED ON TRUE LENGTH OF PIPE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- FOR STORM DRAIN CONSTRUCTION, RCP PIPE JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.

PAVING LEGEND

[Symbol]	NEW PERMANENT ASPHALT PAVEMENT
[Symbol]	NEW TEMPORARY ASPHALT PAVEMENT
[Symbol]	NEW CONCRETE

CURB CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA
①	50.00'	30.12'	34°30'58"
②	4.00'	10.15'	145°24'09"

CERTIFICATE OF SUBSTANTIAL COMPLIANCE

I, JEFFREY G. MORTENSEN, NMPE 8547, OF THE FIRM JEFF MORTENSEN & ASSOCIATES, INC., HEREBY CERTIFY THAT THE INFRASTRUCTURE CONSTRUCTION AS PART OF THIS PROJECT HAS BEEN INSPECTED BY ME OR PERSONNEL UNDER MY DIRECT SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE AND BELIEF, HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND THE ORIGINAL DESIGN INTENT OF THE CITY ENGINEER APPROVED PLANS. THE RECORD INFORMATION EDITED ONTO THIS ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ME OR UNDER MY DIRECT SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS RECORD INFORMATION IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE DESIGN INTENT OF THIS PROJECT. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR ACCEPTANCE OF THE PROJECT BY THE CITY ENGINEER.

JEFFREY G. MORTENSEN, NMPE 8547
DATE: 0506-2004

JEFFREY G. MORTENSEN
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
8547

JMA
JEFF MORTENSEN & ASSOCIATES, INC.
6010-B MIDWAY PARK BLVD. N.E. #109
ALBUQUERQUE, N.M. 87109
ENGINEERS & SURVEYORS (505) 345-4250
FAX: 505 345-4251 E-MAIL: jmort@jma-inc.com

2001-060-8 2002-076-6

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

**TITLE: VENTURA STREET N.E.- ROB'S PLACE N.E. TO HOLLY AVE. N.E.
PAVING AND STORM DRAINAGE IMPROVEMENTS PLAN AND PROFILE
STA 5+93 TO STA 9+00**

Design Review Committee	City Engineer Approval	Last Design Update
APPROVED JUN 16 2003 DESIGN REVIEW COMMITTEE	APPROVED JUN 16 2003 CITY ENGINEER	

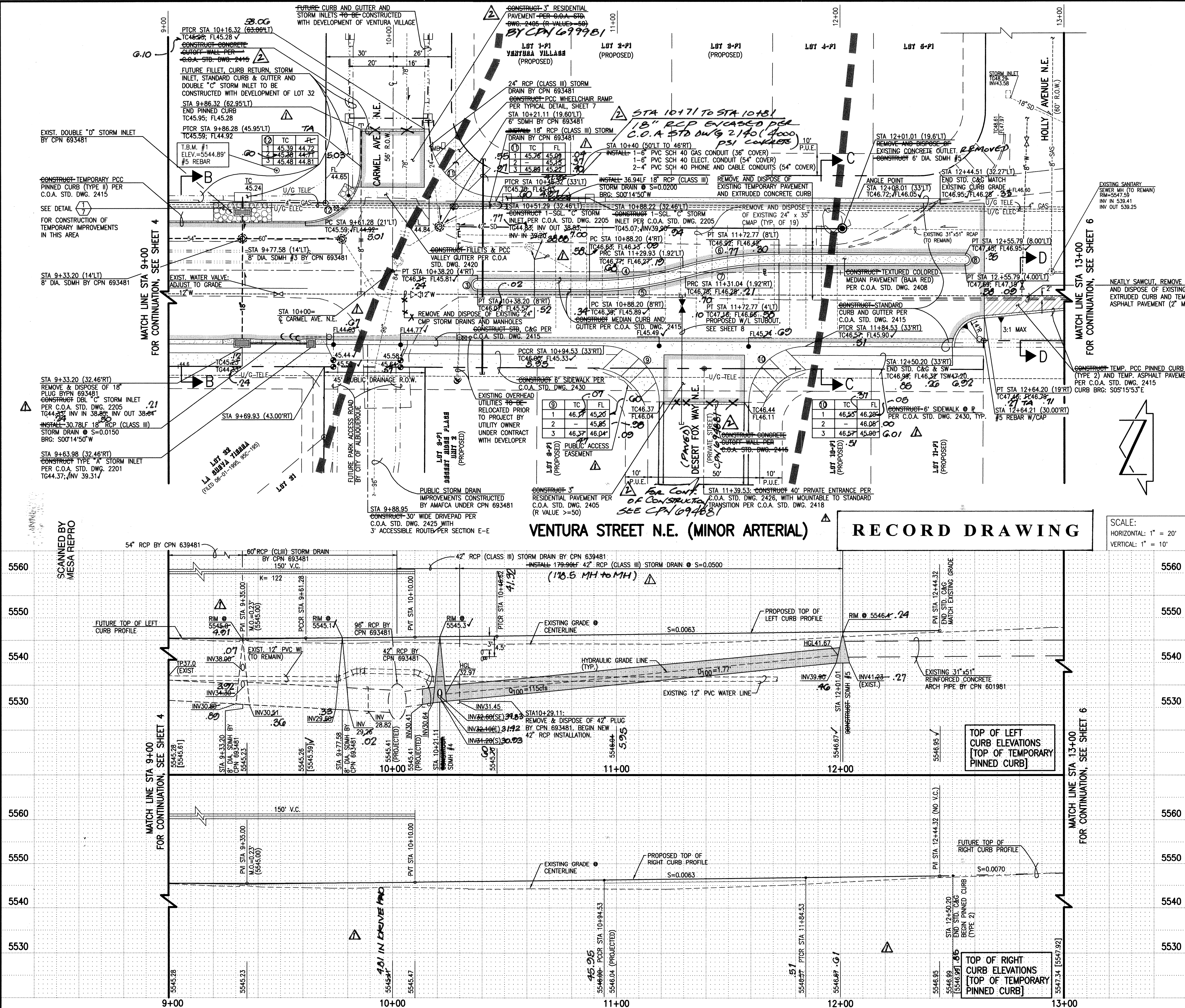
NO.	DATE	REMARKS
		Revisions
		DESIGN

Designed By	Drawn By	Checked By
G.M.	J.L.P.	G.M.

DATE	DATE	DATE
04/03	04/03	04/03

NO.	DATE	REMARKS
		Revisions
		DESIGN

City Project No.	Zone Map No.	Sheet
703981	C-20	4 of 10



STREET PAVING IMPROVEMENTS:

- ALL SLOPES AS SHOWN ON PROFILES ARE BASED ON STREET CENTERLINE STATIONING EXCEPT CUL-DE-SACS AND EYEBROWS WHERE STATIONING IS ALONG FACE-OF-CURB.
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- ALL DIMENSIONS OF CURB AND CURB RETURNS ARE SHOWN TO FACE-OF-CURB.
- ALL WHEELCHAIR RAMPS MUST BE CONSTRUCTED UNDER THIS WORK ORDER.
- ALL CURB AND CURB AND GUTTER SHOWN HEREON SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD DRAWING 2415 UNLESS OTHERWISE NOTED.
- STRIPING BY CONTRACTOR WILL BE REQUIRED PRIOR TO FINAL ACCEPTANCE.
- REFER TO SHEET 2 FOR BASELINE/ R.O.W. PLAN.
- REFER TO SHEET 7 FOR PAVING AND STORM DRAINAGE SECTIONS AND DETAILS.
- REFER TO SHEET 7 FOR STRIPING AND SIGNAGE PLAN.

STORM DRAIN NOTES:

- ALL STORM DRAIN TO BE CLASS III REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 6' DIAMETER TYPE 'C' PER C.O.A. STANDARD DRAWING 2101 UNLESS OTHERWISE NOTED.
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PAVING LEGEND

- NEW PERMANENT ASPHALT PAVEMENT
- NEW TEMPORARY ASPHALT PAVEMENT
- NEW CONCRETE

CURB CURVE TABLE			
CURVE	RADIUS	LENGTH	DELTA
③	2.00'	6.28'	180°00'00"
④	150.00'	42.29'	160°09'08"
⑤	154.00'	43.41'	160°09'08"
⑥	154.00'	43.41'	160°09'08"
⑦	150.00'	42.29'	160°09'08"
⑧	2.00'	6.28'	180°00'00"
⑨	25.00'	39.31'	90°06'00"
⑩	25.00'	39.31'	89°54'00"
⑪	25.00'	47.48'	90°06'33"
⑫	25.00'	39.22'	89°53'27"

CERTIFICATE OF SUBSTANTIAL COMPLIANCE

I, JEFFREY G. MORTENSEN, N.M.P.E. 8547, OF THE FIRM JEFF MORTENSEN & ASSOCIATES, INC., HEREBY CERTIFY THAT THE INFRASTRUCTURE CONSTRUCTED AS PART OF THIS PROJECT HAS BEEN INSPECTED BY ME OR PERSONNEL UNDER MY DIRECT SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE AND BELIEF, HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND THE ORIGINAL DESIGN INTENT OF THE CITY ENGINEER APPROVED PLANS. THE RECORD INFORMATION EDITED ONTO THIS ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ME OR UNDER MY DIRECT SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS RECORD INFORMATION IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE DESIGN INTENT OF THIS PROJECT. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR ACCEPTANCE OF THE PROJECT BY THE CITY ENGINEER.

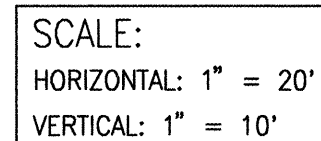
JEFFREY G. MORTENSEN, N.M.P.E. 8547
DATE: 05-06-2004
JMM
2001.060.8 2002.076.6
JEFF MORTENSEN & ASSOCIATES, INC.
8010-B MIDWAY PARK PARKWAY
ALBUQUERQUE, NM 87105
TEL: 505.365.3454 FAX: 505.365.3454
WWW.JMORTENSEN.COM

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: VENTURA STREET N.E.- ROB'S PLACE N.E. TO HOLLY AVE. N.E.
PAVING AND STORM DRAINAGE IMPROVEMENTS PLAN AND PROFILE
STA 9+00 TO STA 13+00

Design Review Committee	City Engineer Approval	Ms./Date/Tr.	Ms./Date/Tr.
JUN 16 2003	JUN 16 2003		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
Last Design Update			

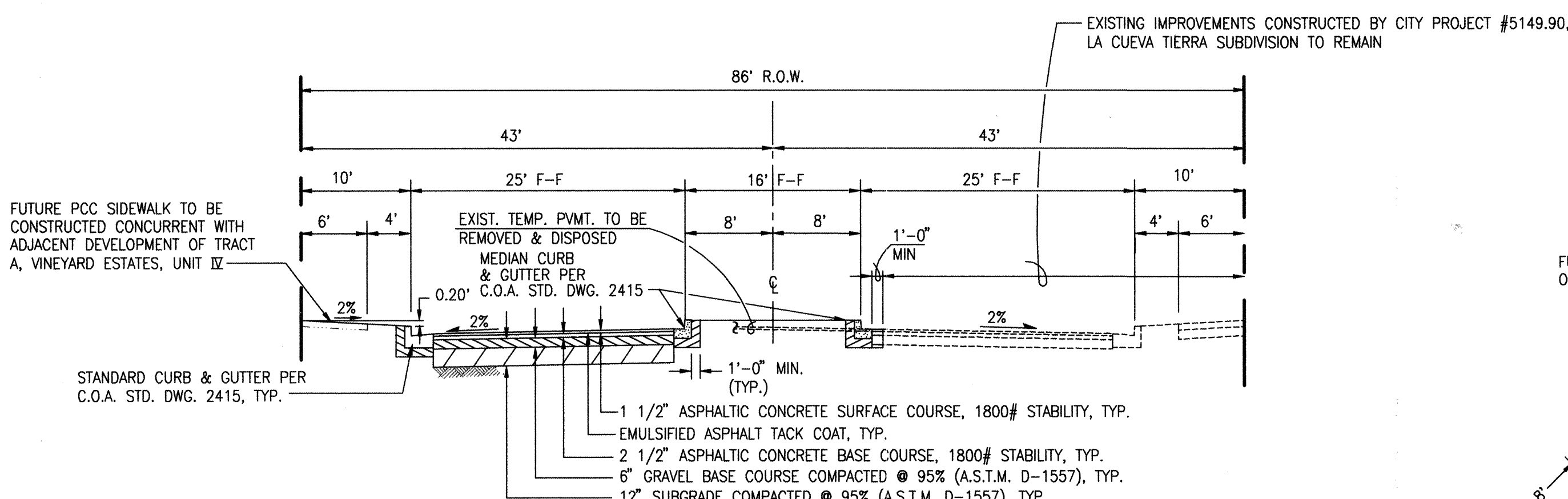
SCANNED BY
MESA REPRO



STREET PAVING IMPROVEMENTS:		AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		RECORD DRAWING			
1. ALL SLOPES AS SHOWN ON PROFILES ARE BASED ON STREET CENTERLINE STATIONING EXCEPT CUL-DE-SACS AND EYEBROWS WHERE STATIONING IS ALONG FACE-OF-CURB. 2. WHERE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK OR PAVEMENT IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. CURB AND GUTTER AND SIDEWALK SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR PER C.O.A. STD. DWGS. 2415 AND 2430, RESPECTIVELY, AT THE CONTRACTOR'S EXPENSE. 3. ALL DIMENSIONS OF CURB AND CURB RETURNS ARE SHOWN TO FACE-OF-CURB. 4. ALL WHEELCHAIR RAMPS MUST BE CONSTRUCTED UNDER THIS WORK ORDER. 5. ALL CURB AND CURB AND GUTTER SHOWN HEREON SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD DRAWING 2415 UNLESS OTHERWISE NOTED. 6. STRIPING BY CONTRACTOR WILL BE REQUIRED PRIOR TO FINAL ACCEPTANCE. 7. REFER TO SHEET 2 FOR BASELINE/ R.O.W. PLAN 8. REFER TO SHEET 7 FOR PAVING AND STORM DRAINAGE SECTIONS AND DETAILS 9. REFER TO SHEET 7 FOR STRIPING AND SIGNAGE PLAN.		CONTRACTOR J.R. HALE WORK STARTED BY J.R. HALE DATE 08/20/03 ACCEPTED BY J.M.A. DON DATE 11/20/03 FIELD CHECKED BY J.M.A. DATE 11/20/03 DRAWING CORRECTED BY J.M.A. DATE 11/20/03 MICRO-FILM INFORMATION RECORDED BY NA DATE		THE ASS. STATION - HEAVEN (TIED PRIOR TO 1999 PASO DEL NORTE CONSTRUCTION) REPRESENTS THE "PROJECT DATUM". PREVIOUS ELEV = 5370.79 FEET (NGVD 1929). NOTE: THE ELEVATION OF ASS. STATION "5-C207" AN ACS 1 3/4" ALUMINUM DISK EXPOSED TO THE TOP OF A STORM INLET AT THE N.E. CURB RETURN AT THE N.E. QUADRANT OF THE INTERSECTION OF VENTURA ST. AND ANHEIM AVE., BASED ON THE "PROJECT DATUM" IS 5352.84 FEET (NGVD 1929). THE C.O.A. PUBLISHED ELEVATION FOR STA "5-C207" IS 5352.71 FEET (NGVD 1929) AND THEREFORE VARIES BY 0.13 FEET VERTICALLY FROM THE "PROJECT DATUM". FOR THE PURPOSES OF THIS PROJECT, USE "PROJECT DATUM" AS DESCRIBED ABOVE.		FIELD NOTES BY DATE NO. 10602 10592		PAVING LEGEND TEMPORARY ASPHALT PAVEMENT PER C.O.A. STD. DWG. 2415 (R VALUE=50)				TITLE: VENTURA STREET N.E.- ROB'S PLACE N.E. TO HOLLY AVE. N.E. PAVING AND STORM DRAINAGE IMPROVEMENTS PLAN AND PROFILE STA 13+00 TO STA 14+93.17	
CERTIFICATE OF SUBSTANTIAL COMPLIANCE I, JEFFREY G. MORTENSEN, NMPE 8547, OF THE FIRM JEFF MORTENSEN & ASSOCIATES, INC., HEREBY CERTIFY THAT THE INFRASTRUCTURE CONSTRUCTED AS PART OF THIS PROJECT HAS BEEN INSPECTED BY ME OR PERSONNEL UNDER MY DIRECT SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE AND BELIEF, HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND THE ORIGINAL DESIGN INTENT OF THE CITY ENGINEER APPROVED PLANS. THE RECORD INFORMATION EDITED ONTO THIS ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ME OR UNDER MY DIRECT SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS RECORD INFORMATION IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE DESIGN INTENT OF THIS PROJECT. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR ACCEPTANCE OF THE PROJECT BY THE CITY ENGINEER. JEFFREY G. MORTENSEN, NMPE 8547 DATE 05-06-2004		DESIGN REVIEW COMMITTEE 		CITY ENGINEER APPROVAL 		DESIGN Revisions NO. DATE 04/03 04/03		DESIGNED BY G.M. DRAWN BY JLP/S.G.H. CHECKED BY J.G.M.		PROJECT NO. 2001-060-8 2002-076-G			
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP		PROJECT NO. 2001-060-8 2002-076-G		CITY PROJECT NO. 703981		ZONE MAP NO. C-20		SHEET 6 OF 10		LAST DESIGN UPDATE			

SCANNED BY
MESA REPRO

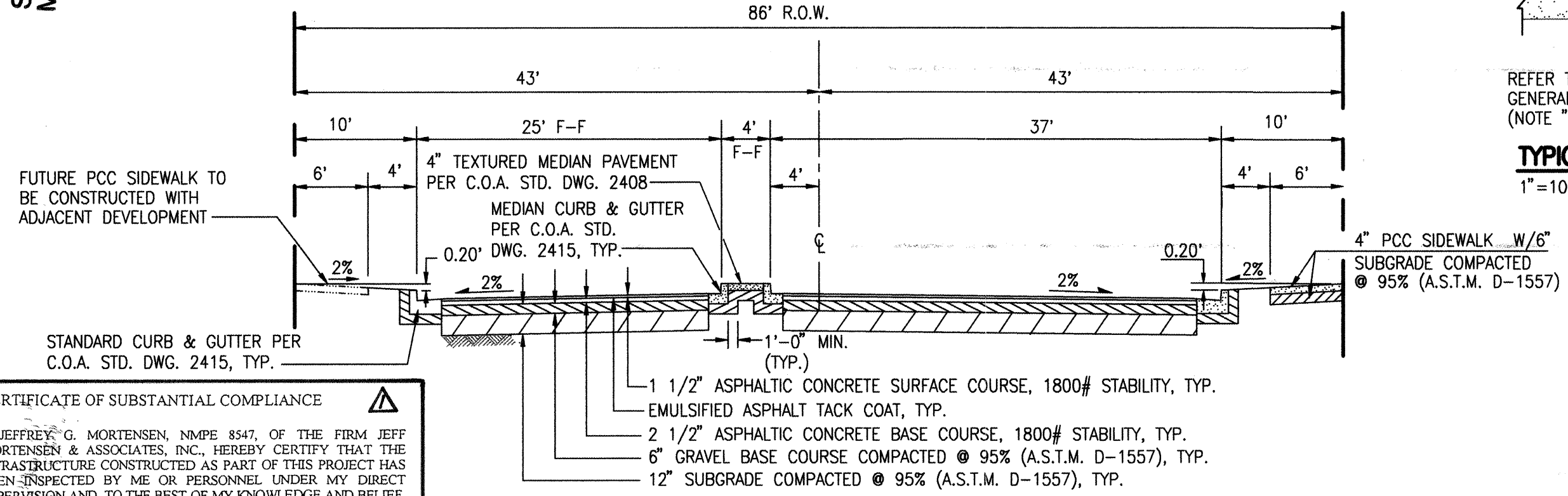
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JEFFREY G. MORTENSEN (NMPE 8547)
DATE: 05-06-2004



SECTION A - A

SCALE: 1" = 10' HORIZONTAL
1" = 6" VERTICAL

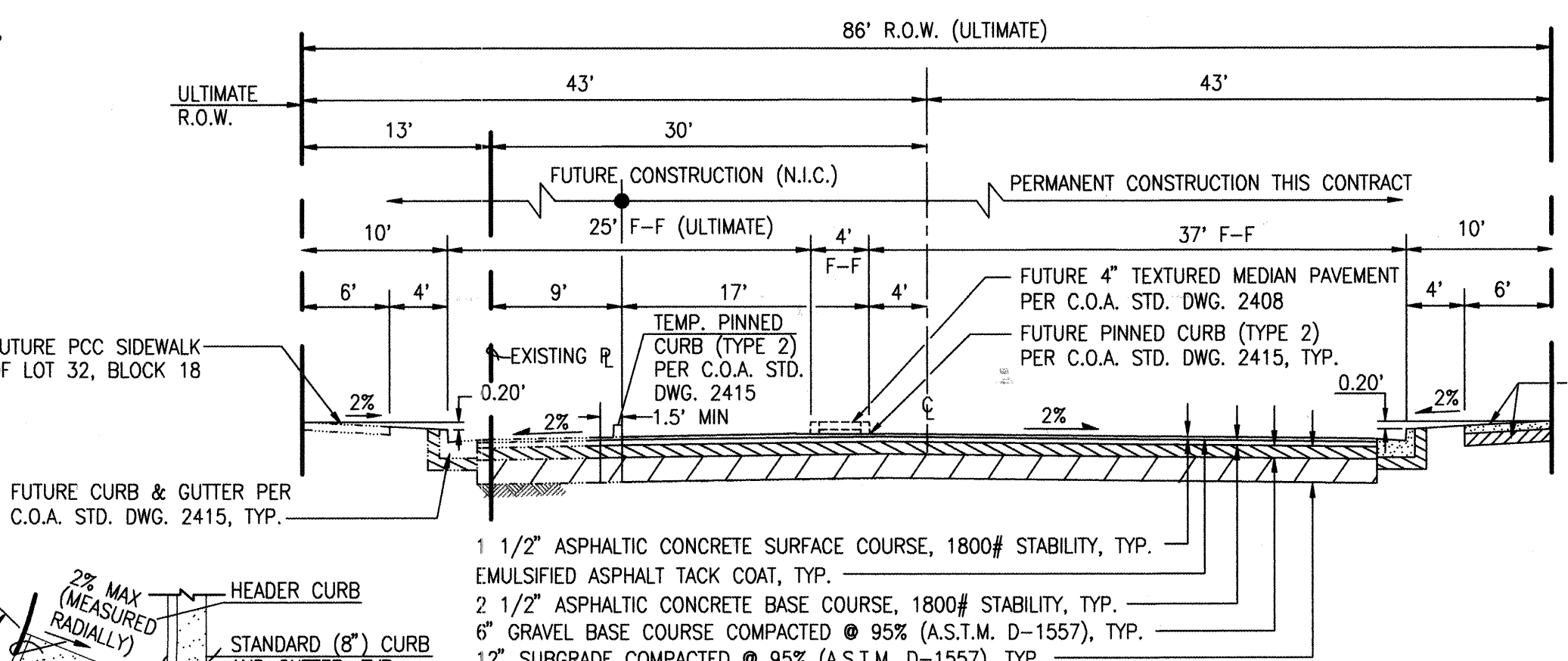
- NOTES:
- PROPOSED PAVEMENT SECTION TAKEN FROM CONSTRUCTION PLANS FOR VINEYARD ESTATES UNIT IV PREPARED BY JMA, 08/23/94. CITY PROJECT #3391.96
 - ALL SUBGRADE MATERIAL SHALL HAVE A MINIMUM R-VALUE OF 50 PER C.O.A. SPECIFICATION SECTION 301. SOIL NOT HAVING THE MINIMUM R-VALUE OF 50 SHALL BE REMOVED TO A DEPTH OF 2 FEET AND REPLACED BY THE CONTRACTOR WITH SUITABLE MATERIAL, OR, A PAVEMENT SECTION SHALL BE DESIGNED BY THE CONSULTANT ACCOMMODATING THE EXISTING R-VALUE PER C.O.A. STANDARD SPECIFICATIONS.



SECTION C - C

SCALE: 1" = 10' HORIZONTAL
1" = 6" VERTICAL

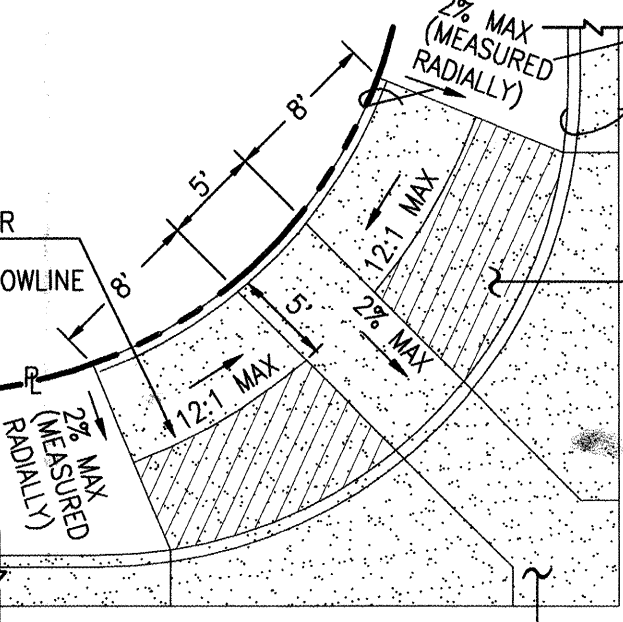
- NOTES:
- PAVEMENT SECTION TAKEN FROM CONSTRUCTION PLANS FOR VINEYARD ESTATES UNIT IV PREPARED BY JMA, 08/23/94. CITY PROJECT #3391.96
 - ALL SUBGRADE MATERIAL SHALL HAVE A MINIMUM R-VALUE OF 50 PER C.O.A. SPECIFICATION SECTION 301. SOIL NOT HAVING THE MINIMUM R-VALUE OF 50 SHALL BE REMOVED TO A DEPTH OF 2 FEET AND REPLACED BY THE CONTRACTOR WITH SUITABLE MATERIAL, OR, A PAVEMENT SECTION SHALL BE DESIGNED BY THE CONSULTANT ACCOMMODATING THE EXISTING R-VALUE PER C.O.A. STANDARD SPECIFICATIONS.



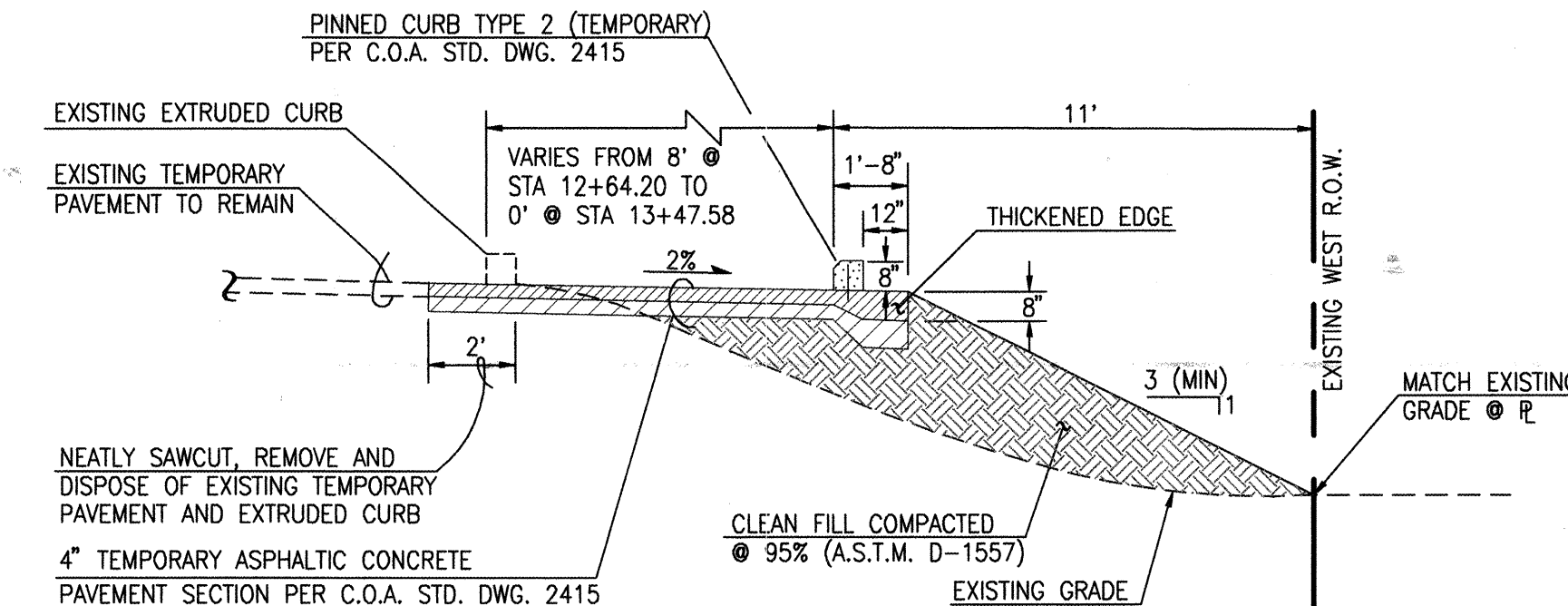
SECTION B - B

SCALE: 1" = 10' HORIZONTAL
1" = 6" VERTICAL

- NOTES:
- PAVEMENT SECTION TAKEN FROM CONSTRUCTION PLANS FOR VINEYARD ESTATES UNIT IV PREPARED BY JMA, 08/23/94. CITY PROJECT #3391.96
 - IMPROVEMENTS SHOWN AS FUTURE TO BE CONSTRUCTED WITH DEVELOPMENT OF LOT 32, BLOCK 18
 - ALL SUBGRADE MATERIAL SHALL HAVE A MINIMUM R-VALUE OF 50 PER C.O.A. SPECIFICATION SECTION 301. SOIL NOT HAVING THE MINIMUM R-VALUE OF 50 SHALL BE REMOVED TO A DEPTH OF 2 FEET AND REPLACED BY THE CONTRACTOR WITH SUITABLE MATERIAL, OR, A PAVEMENT SECTION SHALL BE DESIGNED BY THE CONSULTANT ACCOMMODATING THE EXISTING R-VALUE PER C.O.A. STANDARD SPECIFICATIONS.

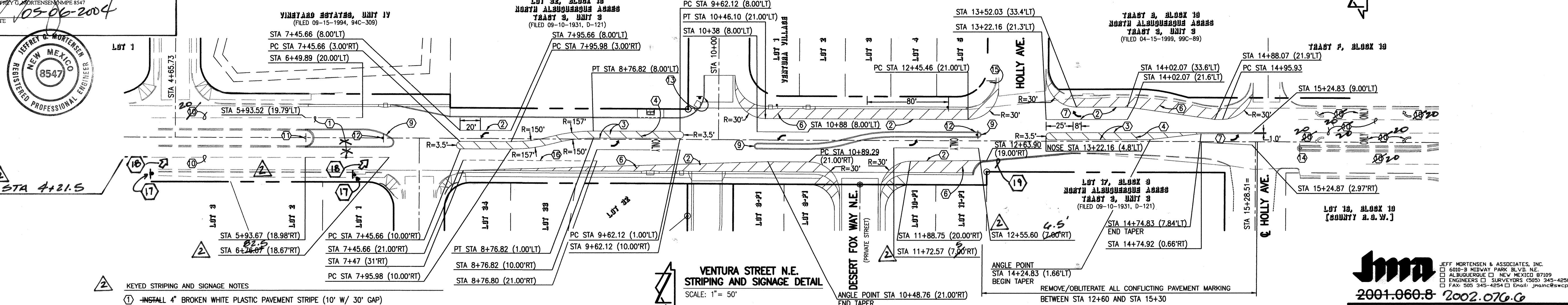
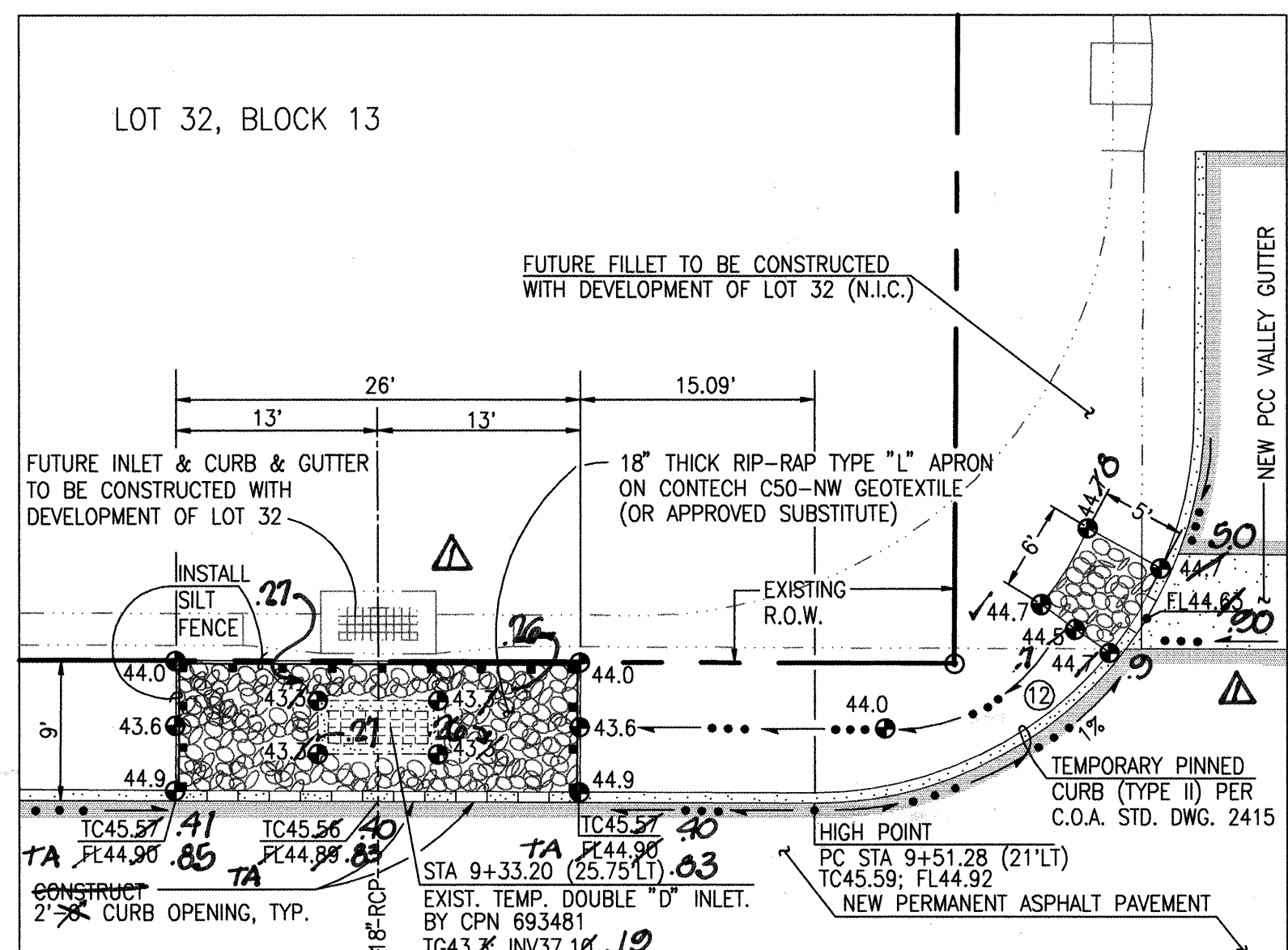


TYPICAL WHEELCHAIR RAMP DETAIL
1"=10' (STANDARD CURB AND GUTTER)



SECTION D - D

SCALE: 1" = 4'



VENTURA STREET N.E.
STRIPING AND SIGNAGE DETAIL

SCALE: 1" = 50'

KEYED STRIPING AND SIGNAGE NOTES

- 1-INSTALL 4" BROKEN WHITE PLASTIC PAVEMENT STRIPE (10' W/ 30' GAP)
- 2-INSTALL 4" CONTINUOUS WHITE PLASTIC PAVEMENT STRIPE (SOLID)
- 3-INSTALL 4" CONTINUOUS YELLOW PLASTIC PAVEMENT STRIPE (SOLID)
- 4-INSTALL 4" CONTINUOUS YELLOW PLASTIC CROSS-HATCH @ 45° ANGLE AND 16' SPACING, TYP. (SOLID)
- 5-INSTALL 4" CONTINUOUS WHITE PLASTIC PAVEMENT STRIPE (SOLID)
- 6-INSTALL 4" CONTINUOUS WHITE PLASTIC CROSS-HATCH @ 45° ANGLE AND 16' SPACING, TYP. (SOLID)
- 7-INSTALL 8" HIGH WHITE PLASTIC ARROW, DIRECTION AS SHOWN (Preformed)
- 8-INSTALL 8" HIGH WHITE PLASTIC WORD "ONLY" (Preformed)
- 9-PAINT NOSE OF MEDIAN WITH YELLOW PAINT
- 10-EXISTING STRIPING TO REMAIN REMOVED & REPLACED W/ 3" X 7" SLIPS REQUESTED BY I. CHAVEZ, STREET MAINT. (P.W.D.)
- 11-REMOVE EXISTING "KEEP RIGHT" (R4-7) SIGN AND SAVE FOR REINSTALLATION ED
- 12-INSTALL "KEEP RIGHT" (R4-7) SIGN
- 13-REMOVE EXISTING STOP SIGN AND REINSTALL AS SHOWN
- 14-EXISTING "KEEP RIGHT" SIGN TO REMAIN
- 15-EXISTING STOP SIGN TO REMAIN
- 16-INSTALL 4" DOTTED WHITE PLASTIC PAVEMENT STRIPE (3' W/ 7' GAP)
- 17-RIGHT LANE ENDS SIGN INSTALLED BY C.O.A.

- NOTES:
1. STRIPING ERADICATION SHALL BE ACCOMPLISHED BY WATER BLASTING OR SURFACE PLANING OF THE ROADWAY TO A MAX. DEPTH OF 1/4 INCH (MAX.) AND FOR A WIDTH EQUAL TO 2 TIMES THE WIDTH OF THE STRIPE OR MARKING TO BE REMOVED.
 2. REDUCTION IN TRAIL LANE WIDTH REQUESTED BY IVAN CHAVEZ, STREET MAINTENANCE, PWD 01-16-2004

STRIPING AND SIGNAGE NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE REFLECTIVE PLASTIC AND COMPLY WITH COA TRAFFIC OPERATIONS THIRD OPERATIONS THIRD DRAFT SPECIFICATIONS AND CONTRACT LISTING AND THE M.U.T.C.D. (LATEST EDITION).
2. ALL TRAFFIC SIGNS SHALL COMPLY WITH THE M.U.T.C.D. (LATEST EDITION).
3. CONTRACTOR SHALL OBLITERATE ALL EXISTING PAVEMENT MARKINGS WITHIN PROJECT LIMITS PER SECTION 443 OF THE THIRD DRAFT SPECIFICATIONS AND CONTRACT ITEM LISTING BY COA TRAFFIC ENGINEERING OPERATIONS, JUNE 1994, PRIOR TO INSTALLATION OF NEW MARKINGS.
4. BROKEN LANE STRIPES SHALL BE 10 FEET IN LENGTH WITH 30 FOOT GAPS.
5. DOTTED LINES SHALL BE 3 FEET IN LENGTH WITH 7 FOOT GAPS.
6. CONTRACTOR SHALL APPLY REFLECTORIZED YELLOW PAINT TO ALL MEDIAN NOSES PRIOR TO FINAL ACCEPTANCE OF PROJECT.
7. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL BE INSTALLED PRIOR TO FINAL ACCEPTANCE OF PROJECT.
8. STATIONING SHOWN HEREON IS BASED UPON STREET CENTERLINE.
9. CONTRACTOR SHALL INVENTORY ALL TRAFFIC CONTROL SIGNS TO BE REMOVED UNDER THIS CONTRACT WITH TRAFFIC OPERATIONS PRIOR TO CONSTRUCTION COMMENCEMENT.
10. CONTRACTOR MUST REVIEW STRIPING AND SIGNAGE LAYOUT WITH CITY OF ALBUQUERQUE TRAFFIC ENGINEERING DIVISION PRIOR TO INSTALLATION. (857-8000)



JEFF MORTENSEN & ASSOCIATES, INC.
6000-B MIDWAY PARK BLVD. N.E.
ALBUQUERQUE, N.M. 87109
PHONE: 505-345-4654 FAX: 505-345-4250
E-MAIL: jmort@jma-inc.com

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: VENTURA STREET N.E.- ROB'S PLACE N.E. TO HOLLY AVE. N.E.
PAVING AND STORM DRAINAGE SECTIONS AND DETAILS

Design Review Committee	City Engineer Approval	Ms./Date/Tr.	Ms./Date/Tr.
APPROVE JUN 16 2003	APPROVE JUN 16 2003		
City Project No. 703981	Zone Map No. C-20	Sheet 7	Of 10

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION	
CONTRACTOR	J.R. HALE	THE ASS. STATION "MARK" (TIED PRIOR TO 1989 PASO DEL NORTE CONSTRUCTION)	DATE	BY	NO.
WORK	J.R. HALE	REPRESENTS THE "PROJECT DATUM" (TIED PRIOR TO 1989 PASO DEL NORTE CONSTRUCTION)	11/02	JMA	10602
FIELD	J.M.A. FOR BATHING/1-2003	NOTE: THE ELEVATION OF ASS. STATION "5-207" AN ACS 1 3/4" ALUMINUM DISK EXPOSED TO THE TOP OF A STORM INLET AT THE ANE CURB RETURN AT THE N.E. QUADRANT OF THE INTERSECTION OF VENTURA ST. AND ANAHEIM AVE.	01/02	JMA	10602
DRAWN	J.M.A.	BASED ON THE "PROJECT DATUM" IS 5552.84 FEET (NGVD 1929).			
CHECKED	J.M.A.	THE C.O.A. PUBLISHED ELEVATION FOR STA "5-207" IS 5552.71 FEET (NGVD 1929) AND THEREFORE VARIES BY 0.13 FEET VERTICALLY FROM THE "PROJECT DATUM". FOR THE PURPOSES OF THIS PROJECT, USE "PROJECT DATUM" AS DESCRIBED ABOVE.			
MICRO-FILM INFORMATION		ENGINEER'S SEAL		REMARKS	
RECORDED BY	J.M.A.			NO.	DATE
NO.	DATE			12-03	03-04
REVISIONS		DESIGN		DESIGNED BY	
				DRAWN BY	
				CHECKED BY	

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 ACCESSSES. 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 ACCESSSES. 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 (M.U.T.C.D.) 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 5A 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 PLACES 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 TRAVELED 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, HOSPITAL, TRANSIT AUTHORITY, BUSINESSES AN/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 PATCHES OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

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

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

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

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

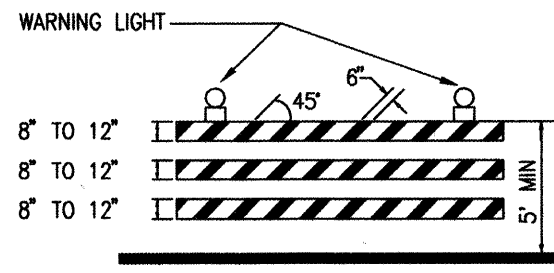
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

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

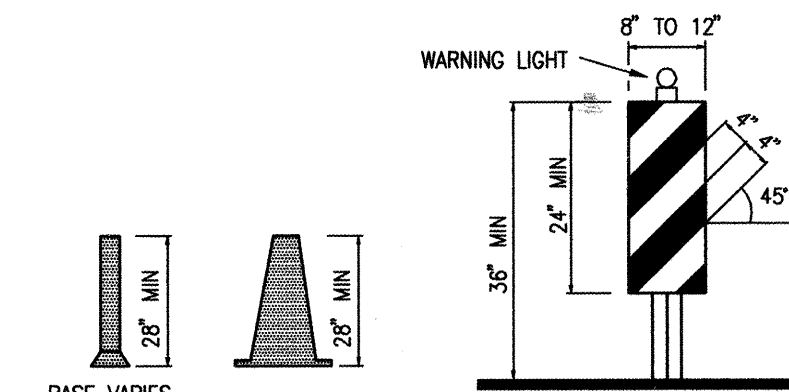
27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.

SPECIAL PROJECT TRAFFIC CONTROL NOTES

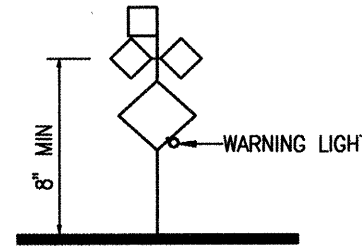
1. ARTERIAL/COLLECTOR ROAD USAGE FEES OF \$0.01 PER SQUARE FOOT OF BARRICADED AREA PER DAY WILL BE ASSESSED ON THE BARRICADE PERMIT FOR ANY LANE CLOSURES OR ROAD CLOSURES ON VENTURA STREET. FOR A TOTAL ROAD CLOSURE, THE BARRICADED AREA IS CALCULATED AS THE TOTAL WIDTH OF THE STREET TIMES THE TOTAL LENGTH OF ROAD CLOSURE AS MEASURED FROM THE NEAREST CROSS STREET IN EACH DIRECTION.
2. CONTRACTOR SHALL MAINTAIN CONTINUOUS 2-WAY TRAFFIC IN VENTURA STREET AT ALL TIMES.
3. PERMIT REQUESTS FOR WORK IN VENTURA STREET MAY BE DELAYED IF THEY CONFLICT WITH OTHER ON-GOING PROJECTS IN THE VICINITY.



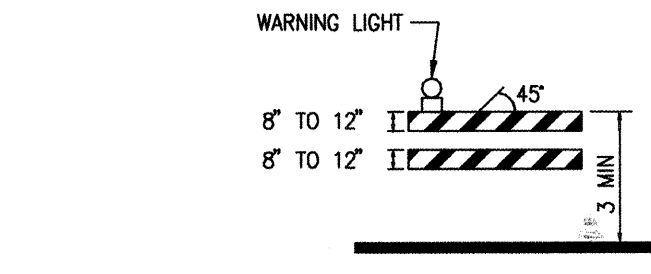
TYPE III BARRICADE



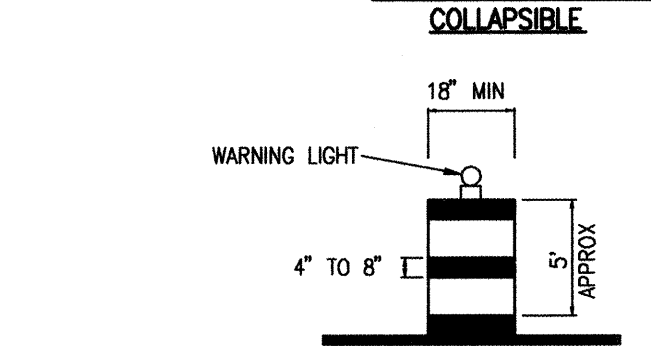
VERTICAL PANEL



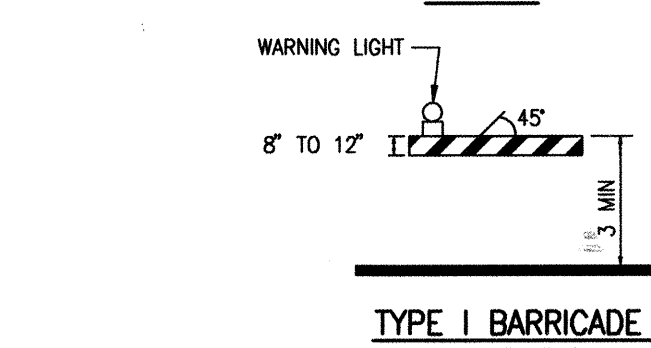
HIGH LEVEL WARNING DEVICE



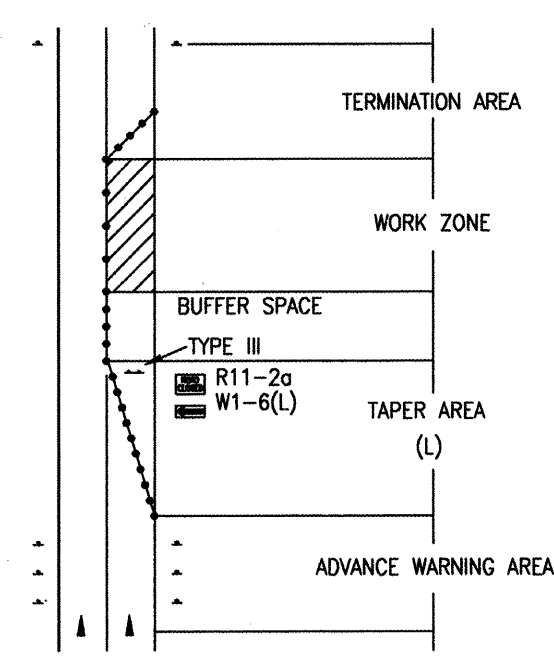
TYPE III BARRICADE COLLAPSIBLE



BARREL



TYPE I BARRICADE COLLAPSIBLE



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		ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

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

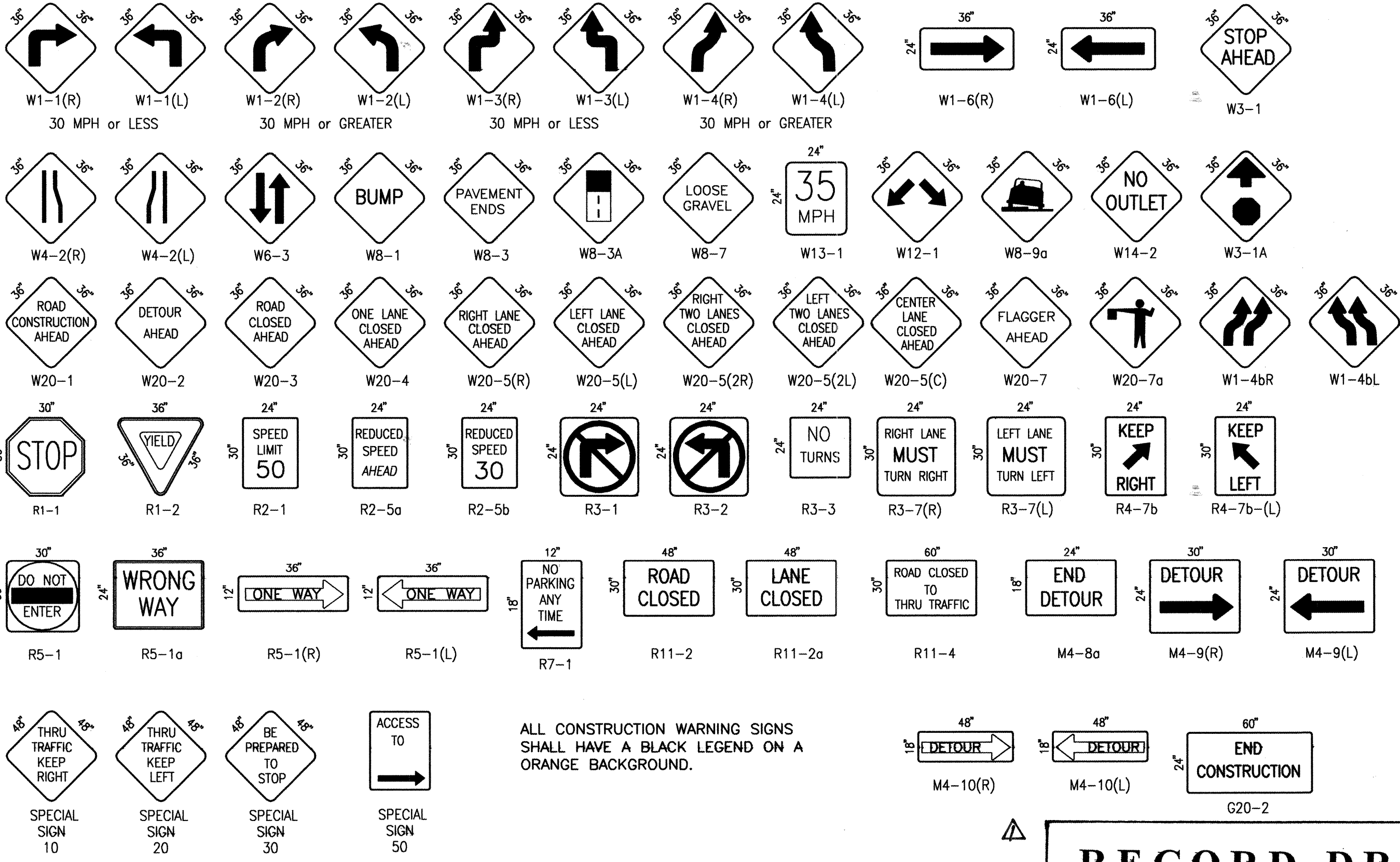
TAPER CRITERIA

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

TAPER LENGTH COMPUTATION

SPEED LIMIT	
40 MPH OR LESS	$WS^2/60$
45 MPH OR GREATER	$L = W \times S$
L = TAPER LENGTH	
W = WIDTH OF OFFSET IN FEET	
S = POSTED SPEED OR OFF-PEAK 85 PERCENTILE SPEED IN MPH	

SIGN FACE DETAILS



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

RECORD DRAWING

AS BUILT INFORMATION: CONTRACTOR, WORK, DATE, BY, CHECKED BY, NO.

BENCH MARKS: DATE, BY, NO.

SURVEY INFORMATION: FIELD NOTES, DATE, BY, NO.

ENGINEER'S SEAL: C.O.A. STANDARDS

12-08 RECORD DRAWING: NO., DATE, BY, REMARKS, Revisions, DESIGN, Date, N/A, Date, Date, J.C.M.

2001.060.8

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP

TITLE: VENTURA STREET N.E. ROB'S PLACE N.E. TO HOLLY AVE. N.E. SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

Design Review Committee: C.O.A. STD.

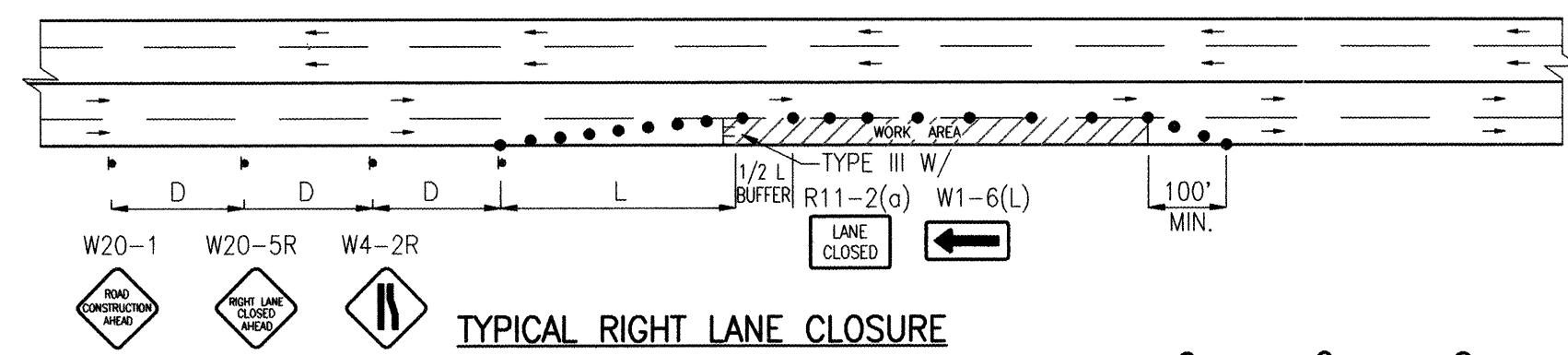
City Engineer Approval: C.O.A. STD.

City Project No. 703981

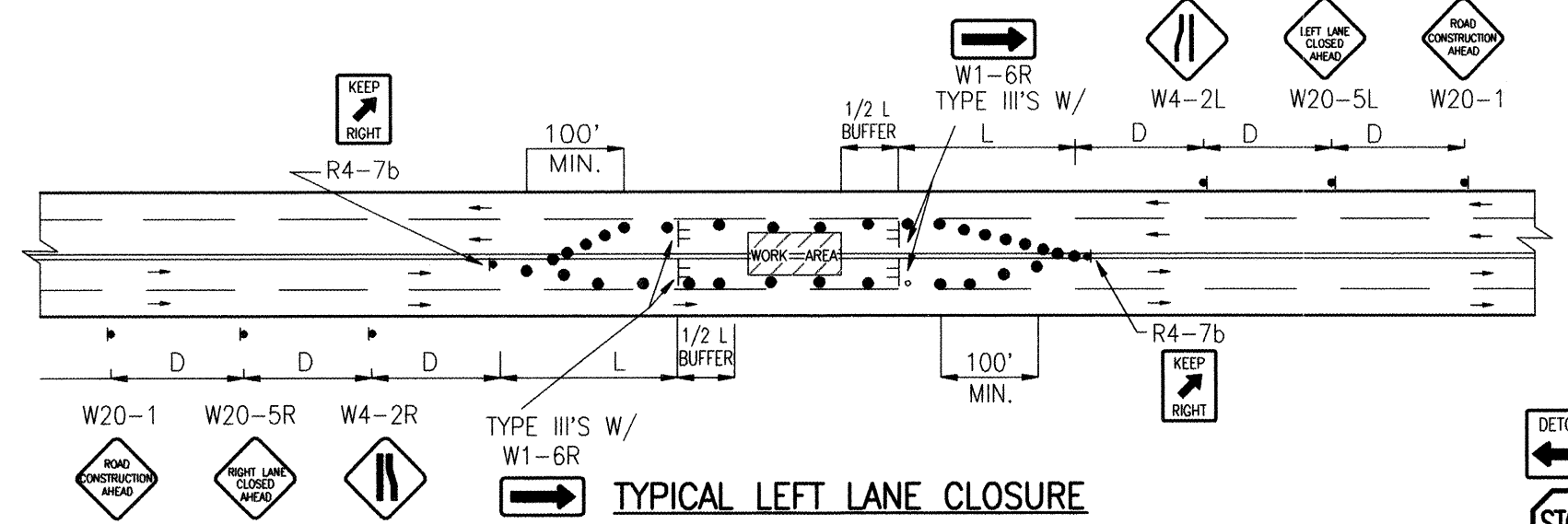
Zone Map No. C-20

Sheet 9 of 10

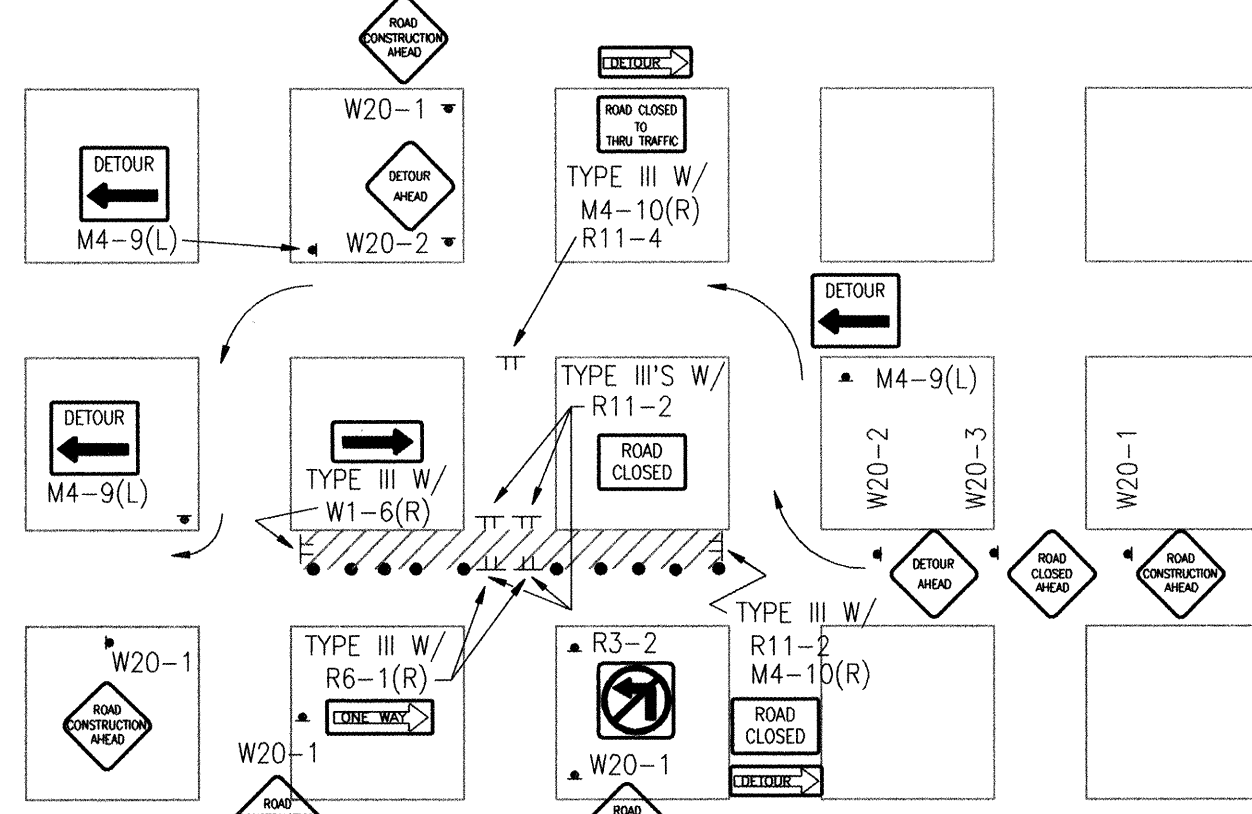
SCANNED BY
MESA REPRO



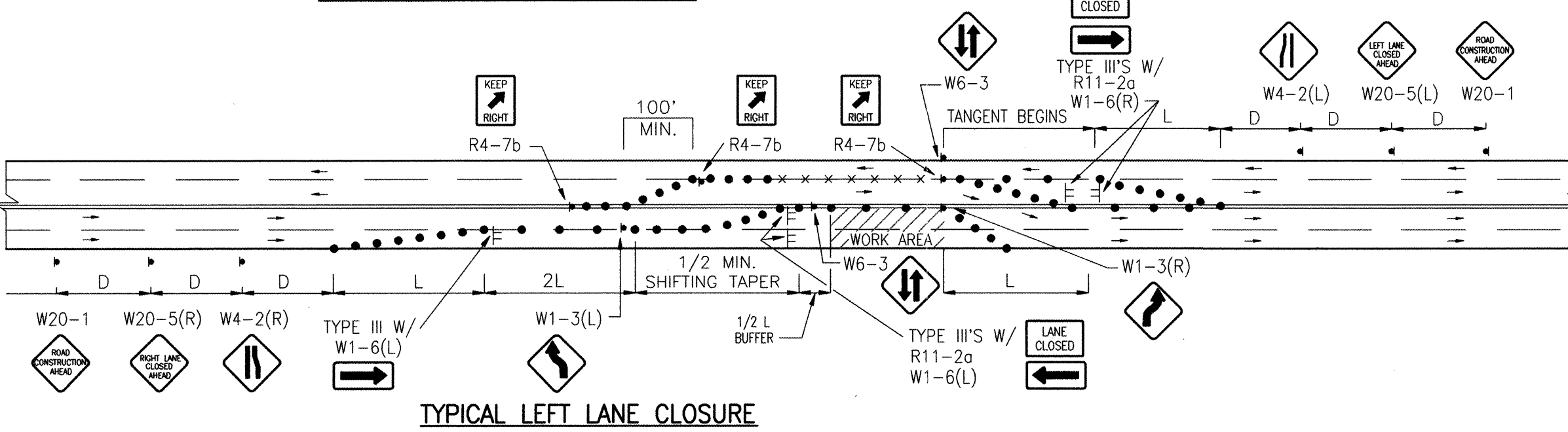
TYPICAL RIGHT LANE CLOSURE



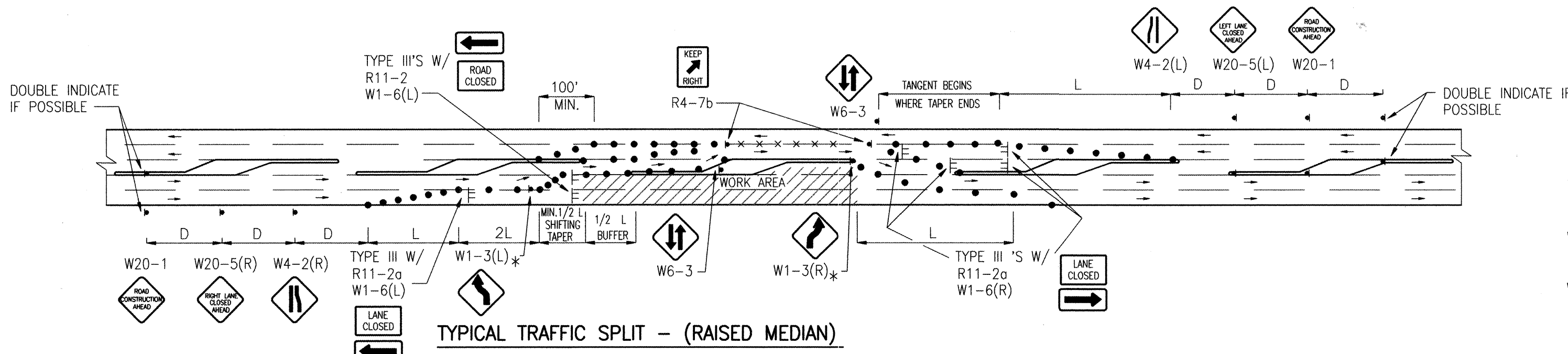
TYPICAL LEFT LANE CLOSURE



TYPICAL ONE DIRECTION DETOUR



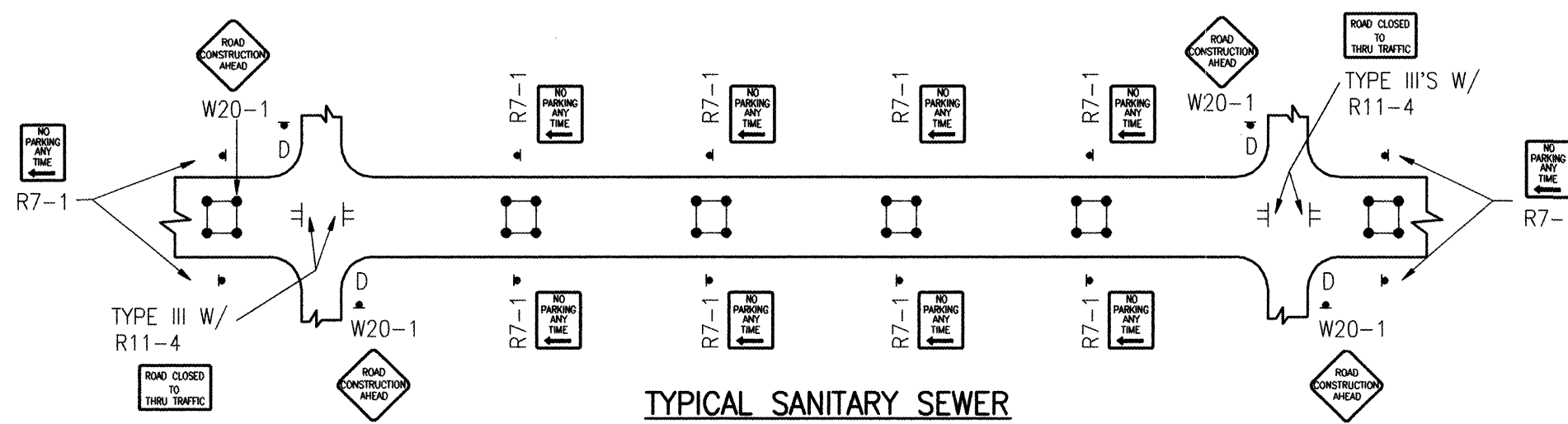
TYPICAL LEFT LANE CLOSURE



TYPICAL TRAFFIC SPLIT - (RAISED MEDIAN)

TRAFFIC SPLIT NOTES:

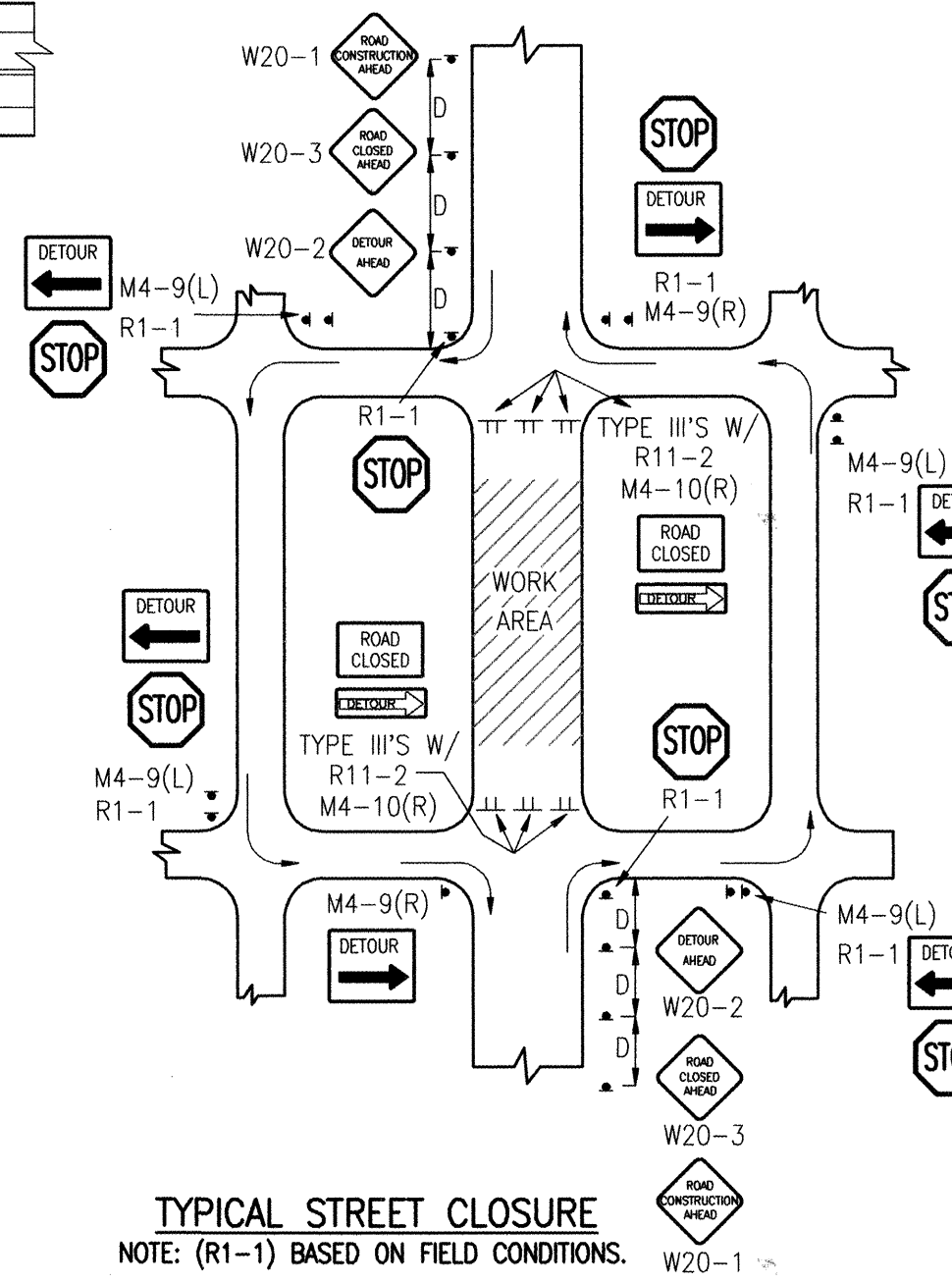
1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
2. 1/2 L IS MINIMUM DISTANCE FOR SHIFTING TAPERS.
3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
4. MEDIAN REMOVAL SHALL BE REQUIRED IF 1/2 L 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.



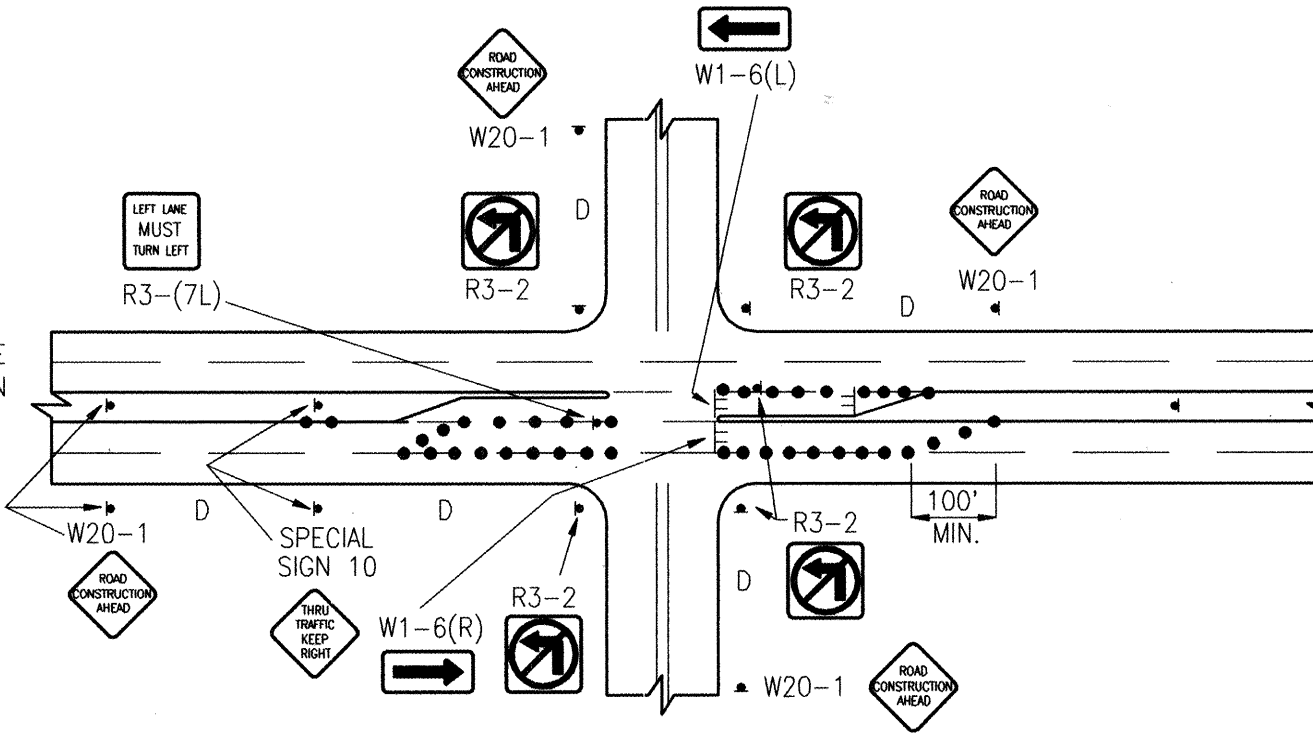
TYPICAL SANITARY SEWER SLIPLINING OPERATION

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

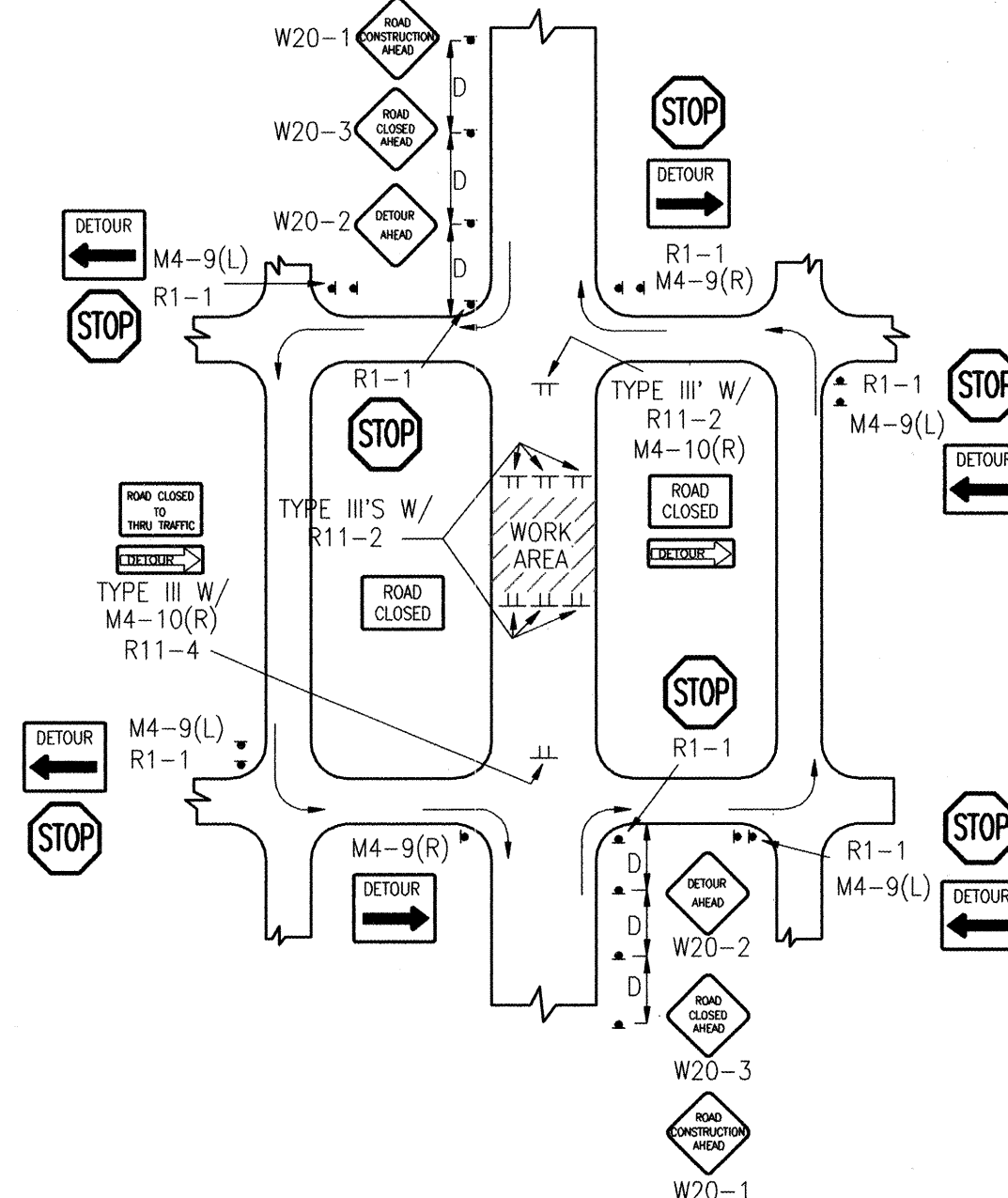
NOTE:
MAY REQUIRE LEFT LANE
CLOSURE DEPENDING ON
FIELD CONDITIONS.



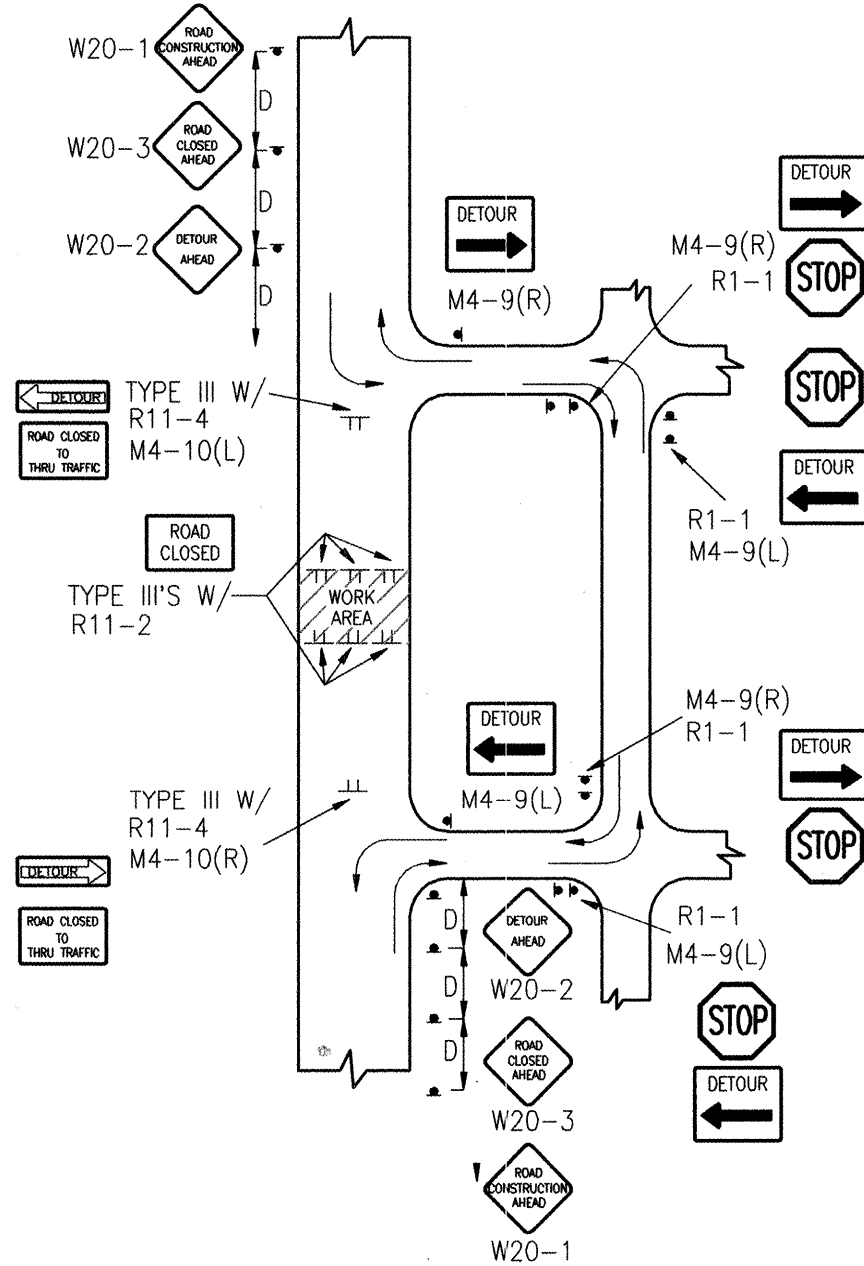
TYPICAL STREET CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



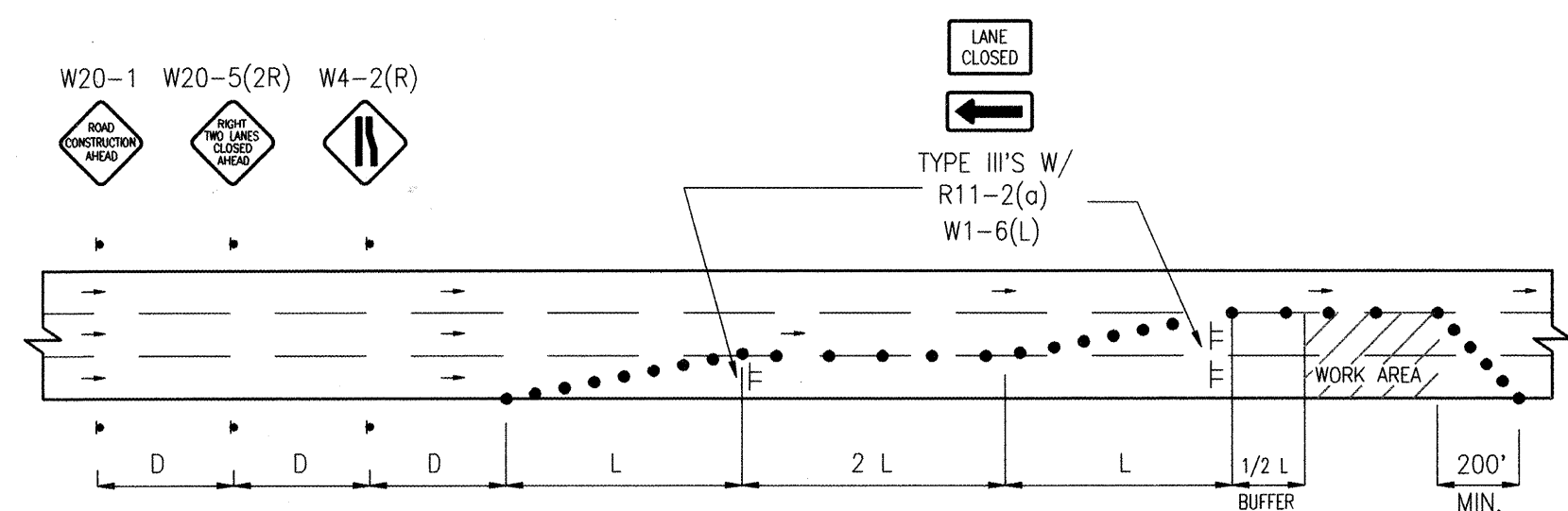
TYPICAL LANE CLOSURE AT INTERSECTION
NOTE: DEPENDING ON WORK ZONE LOCATION



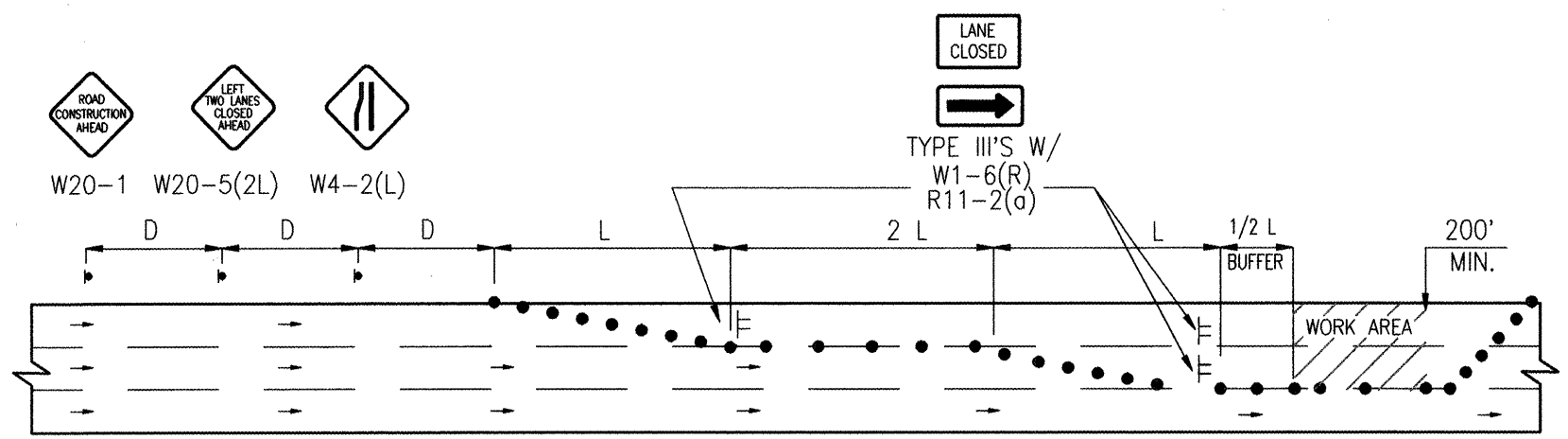
TYPICAL MID-BLOCK CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



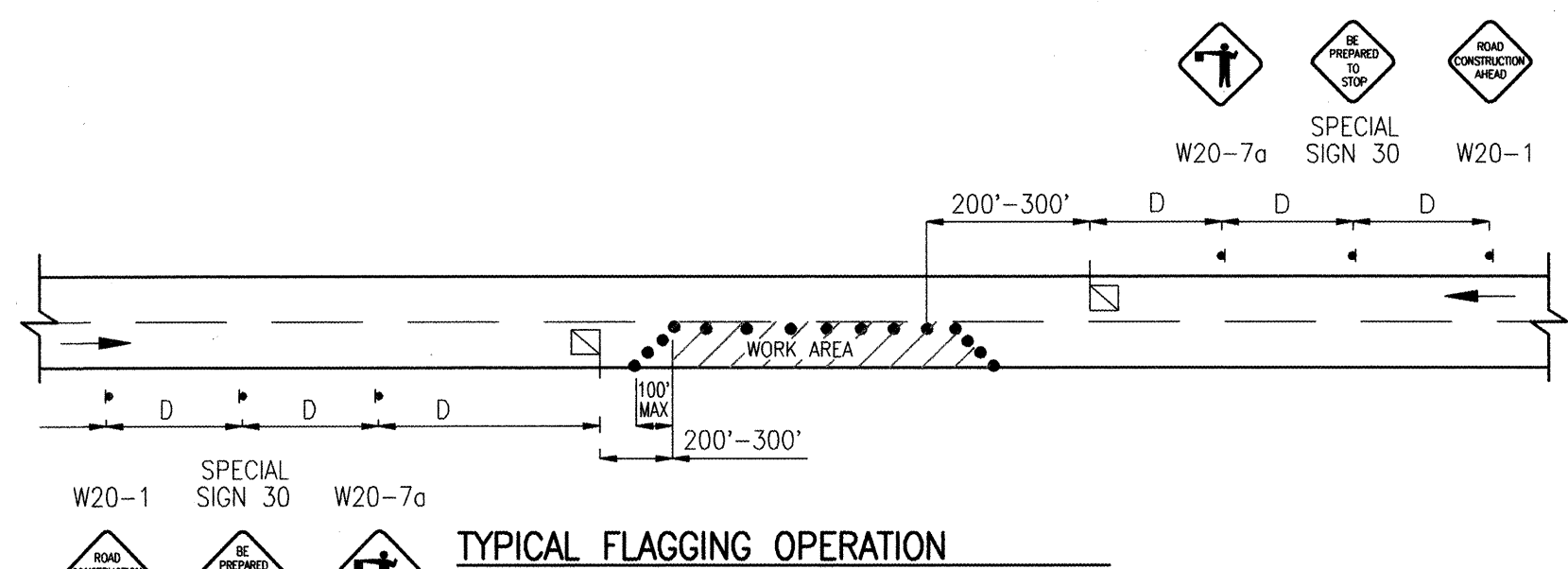
TYPICAL STREET CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



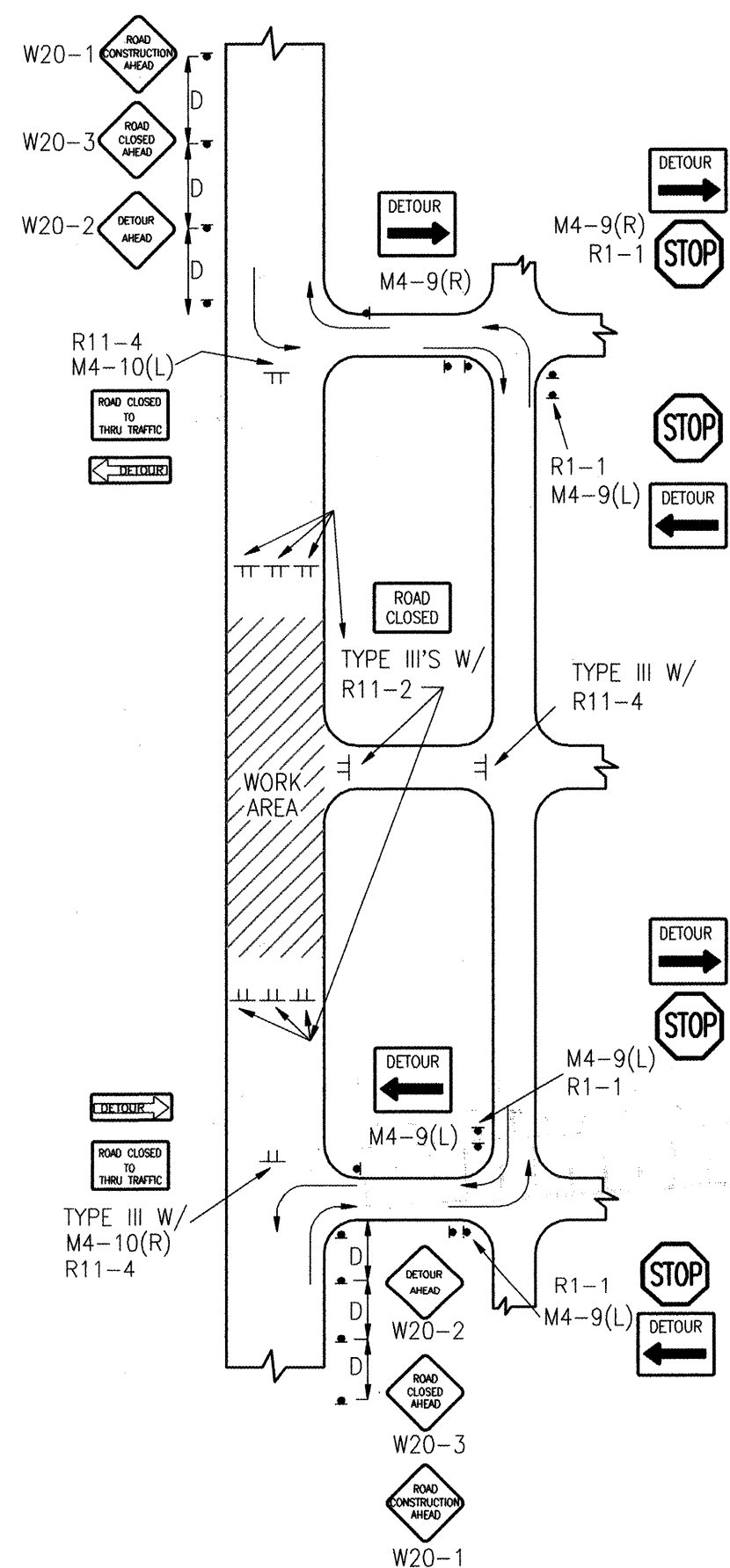
TYPICAL DOUBLE RIGHT LANE CLOSURE



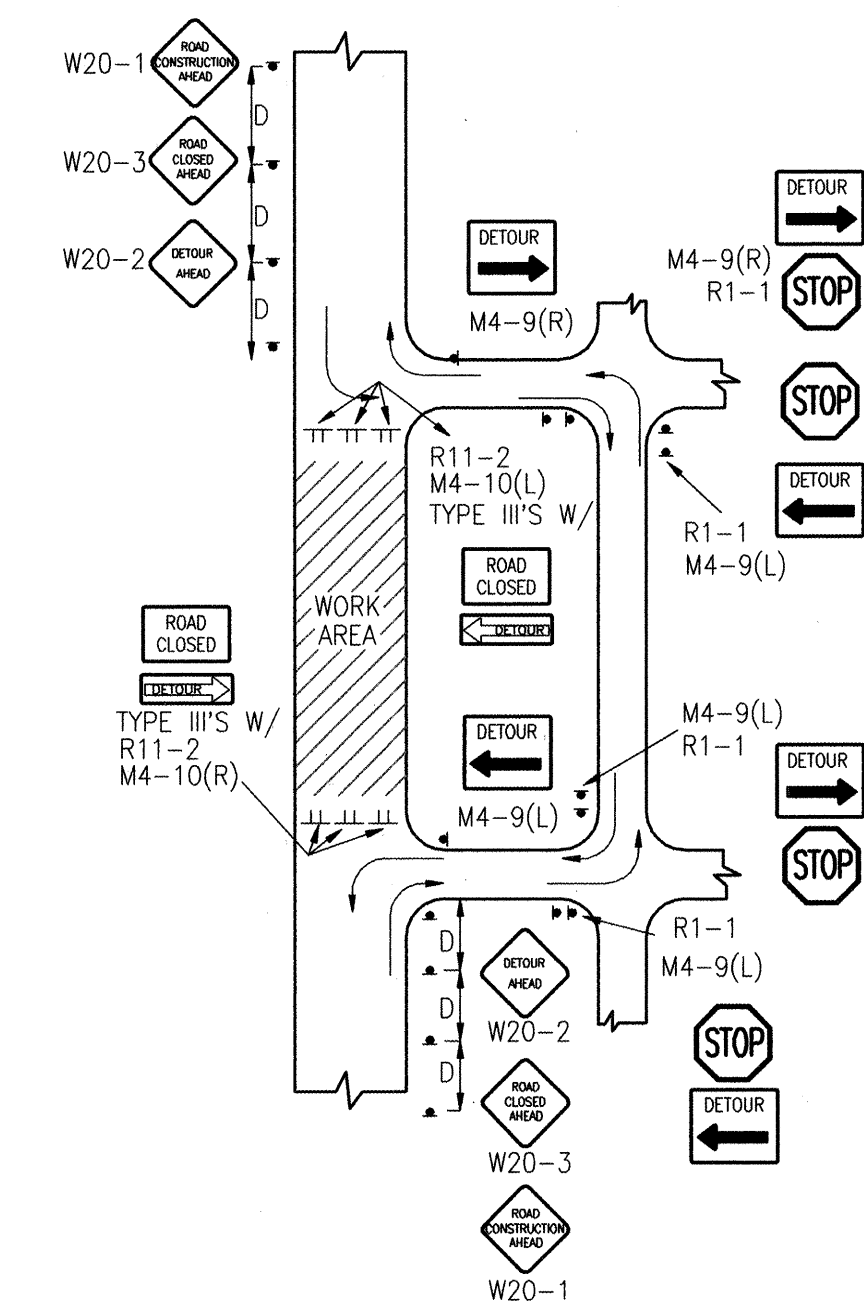
TYPICAL DOUBLE RIGHT LANE CLOSURE



TYPICAL FLAGGING OPERATION



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



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

RECORD DRAWING

2001.060.8

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: VENTURA STREET N.E. ROB'S PLACE N.E. TO HOLLY AVE. N.E. TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.)	
Design Review Committee	City Engineer Approval
C.O.A. STD.	C.O.A. STD.
City Project No. 703981	Zone Map No. C-20
Sheet 10	Of 10