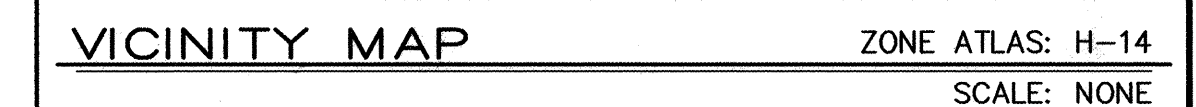


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MESA REPRO



NOTICE TO CONTRACTORS

- THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- A3019BIA/PLANS/A3019COVER/08-11-03/ACH

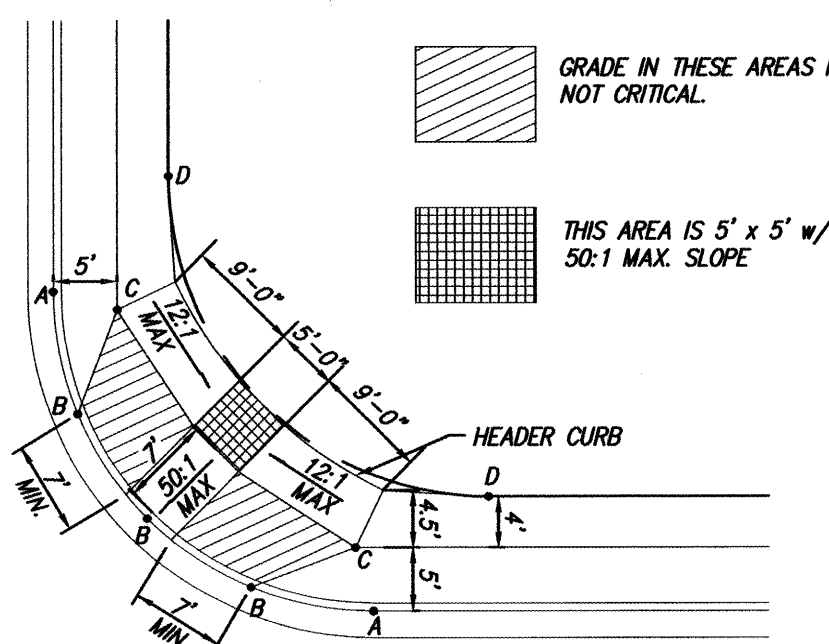
VALVE SHUT-OFF PLAN

1. CONTRACTOR SHALL CONTACT WATER SYSTEMS AT 857-8200, SEVEN (7) DAYS PRIOR TO NECESSARY SHUT-OFF.
2. VALVES SHALL ONLY BE OPERATED BY CITY WATER EMPLOYEES SEE THIS SHEET FOR VALVE NUMBERS & LOCATIONS.
3. VALVES #S 611, 612, 271, 272 & 223 WILL NEED TO BE CLOSED FOR THE CONNECTION IN 9TH STREET NEAR APACHE AVE. N.W.
4. THE 36" WATERLINE IN MENAUL WILL REQUIRE A SHUTDOWN FROM 12TH STREET N.W. TO EDITH N.W. FOR THE CONNECTION AT 9TH STREET N.W.

LEGEND

EXISTING RIM & INV ELEVATION	EXISTING WATER VALVE
EXISTING TRAFFIC SIGNAL BOX	EXISTING METER RISER
EXISTING TRAFFIC SIGNAL	EXISTING BILLBOARD
EXISTING LIGHT POLE	EXISTING FIRE HYDRANT
EXISTING POWER POLE	EXISTING DROP INLET
EXISTING OVERHEAD UTILITY LINE	EXISTING FENCE
EXISTING GAS LINE	EXISTING PROPERTY LINE
EXISTING SEWER LINE	EXISTING LOT LINES
EXISTING WATER LINE	EXISTING CURB & GUTTER
EXISTING ANCHOR	EXISTING SIDEWALK
EXISTING SEWER MANHOLE	NEW BUILDING
EXISTING STORM MH	NEW CURB & GUTTER
	NEW PARKING STRIPES
	NEW STORM DRAIN
	NEW FINISH FLOOR
	NEW SAS LINE
	NEW WATERLINE
	FUTURE BUILDING

A = CURB RETURN POINT
B = QUARTER POINTS
C = 5' BEHIND FACE OF CURB RETURN
D = RIGHT OF WAY RETURN POINT



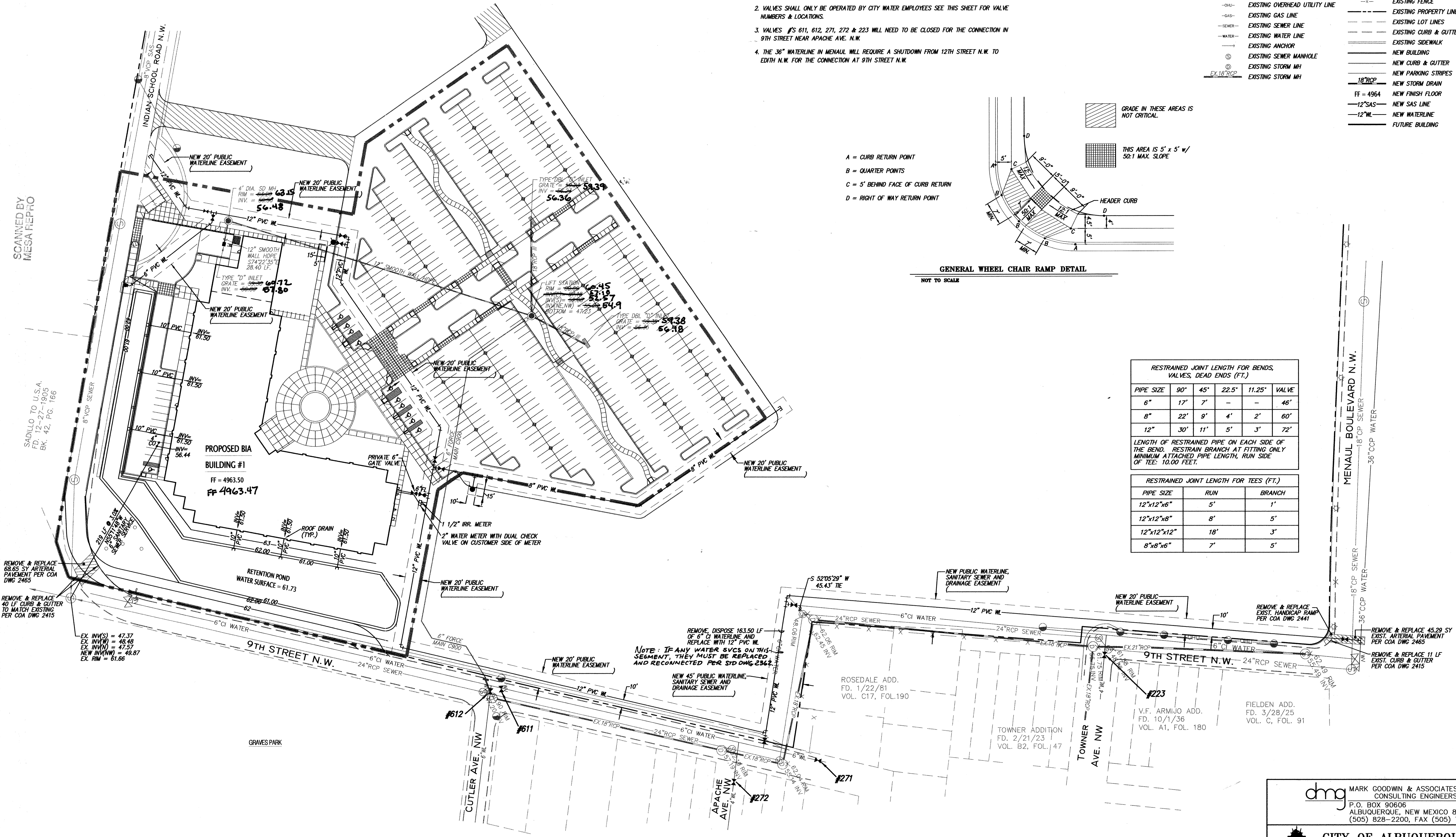
GENERAL WHEEL CHAIR RAMP DETAIL

NOT TO SCALE

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'
12"	30'	11'	5'	3'	72'

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"x6"	5'	1'
12"x12"x8"	8'	5'
12"x12"x12"	18'	3'
8"x8"x6"	7'	5'

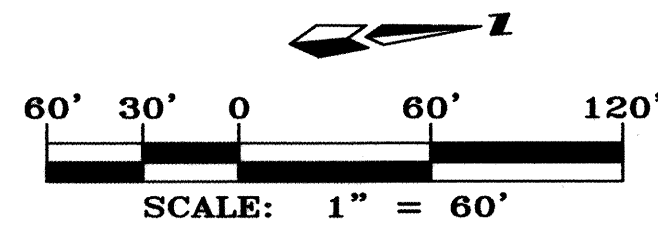


CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Gregory J. Krenik, PE, NMPE 11929, of the firm Mark Goodwin & Associates, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by Gary Grisako, Southwest Surveying Company, NMPS number 8886.



1/27/04
As built information
Gary E. Grisako



A3019BIA/PLANS/A3019MUP-50-2B-REV/08-27-03/ACH

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

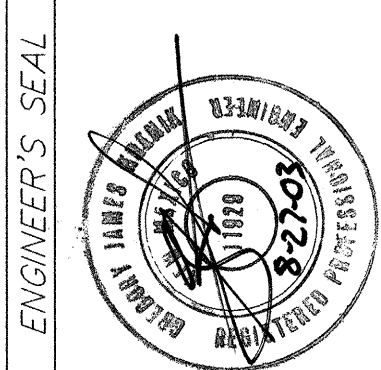
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: U.S. DEPARTMENT OF THE INTERIOR
B.I.A. S.W. REGIONAL HEADQUARTERS
MASTER UTILITY PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 10 2003	APPROVED OCT 15 2003		
DESIGN REVIEW COMMITTEE	CITY ENGINEER	LAST DESIGN UPDATE	

CITY PROJECT NO. 718681
ZONE MAP NO. H-14
SHEET 2 OF 7

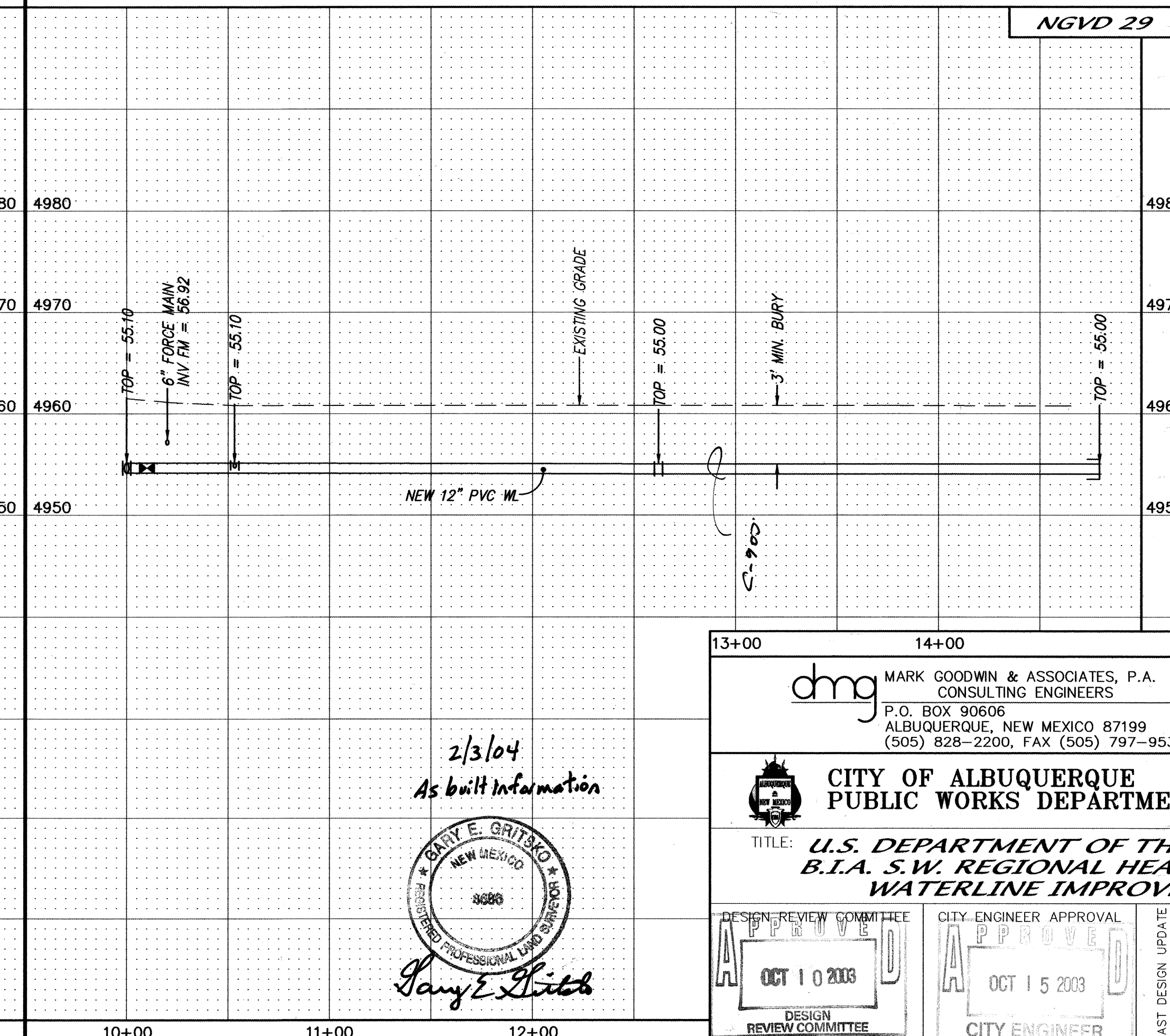
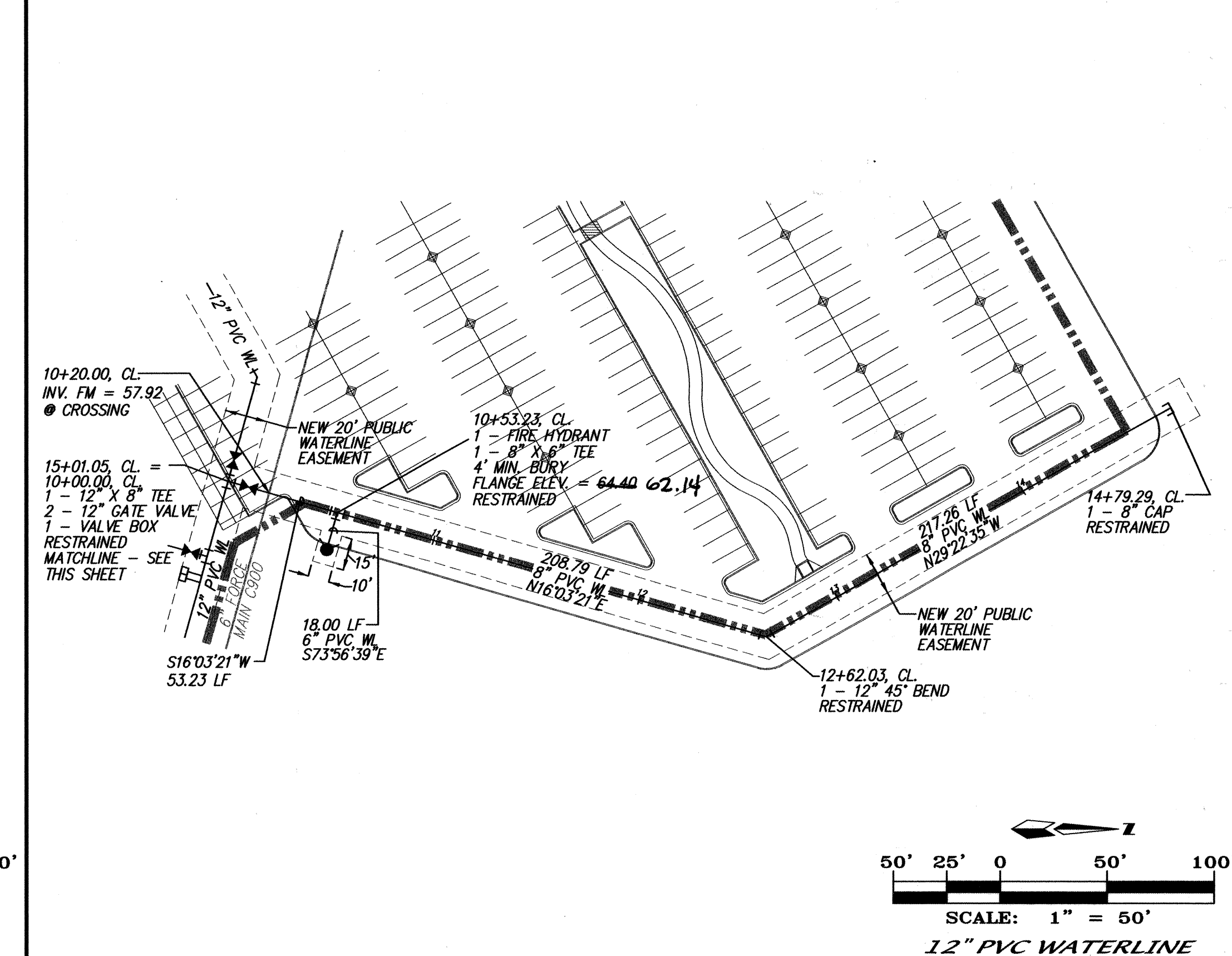
AS BUILT INFORMATION			
CONTRACTOR	DATE	BY	REMARKS
TUTT CONSTRUCTION	1/27/04	Gary Grisako	
WORK	DATE	BY	REMARKS
STAMPED BY	DATE	BY	REMARKS
ACCEPTANCE BY	DATE	BY	REMARKS
FIELD NOTES	DATE	BY	REMARKS
REVISIONS	DATE	BY	REMARKS
DESIGN	DATE	BY	REMARKS
CHECKED BY	DATE	BY	REMARKS
DWG	DATE	BY	REMARKS



NO.	DATE	BY	REMARKS
1	1/27/04	Gary Grisako	

DESIGNED BY	DATE	BY	REMARKS
GJK	04/03	ACH	
DRAWN BY	DATE	BY	REMARKS
ACH	04/03	DWG	
CHECKED BY	DATE	BY	REMARKS
DWG	04/03		

RECORDED BY
MICRO-FILM INFORMATION
DATE
M.D.A. Inspector: Mike Spickler



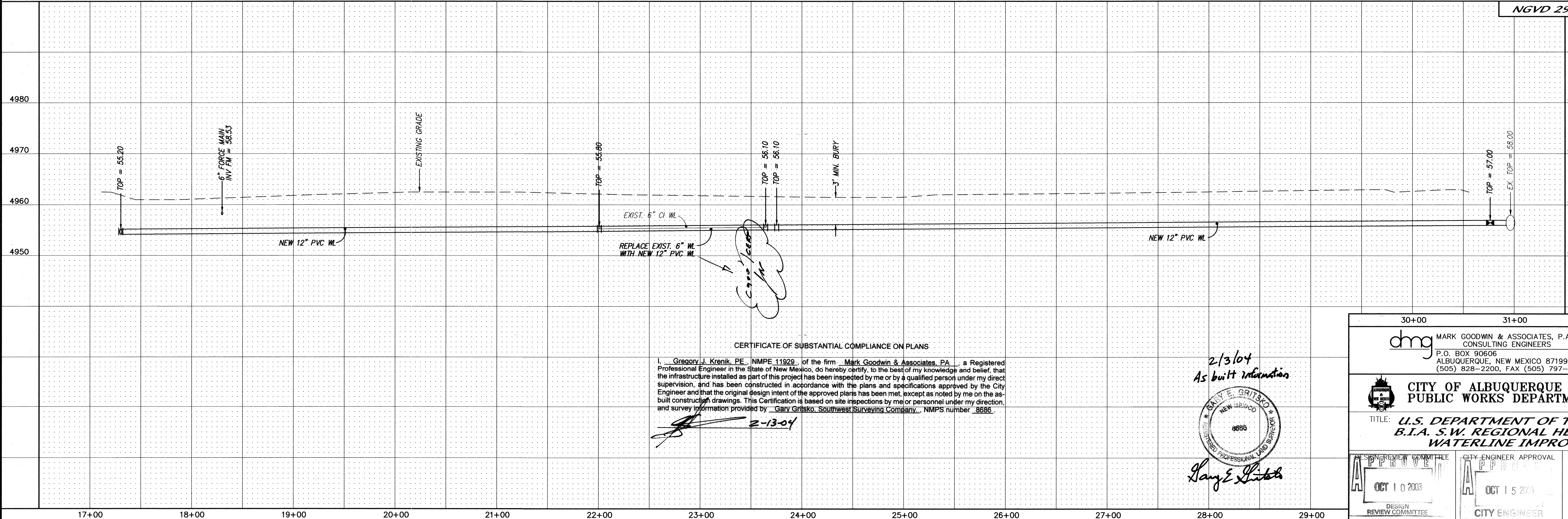
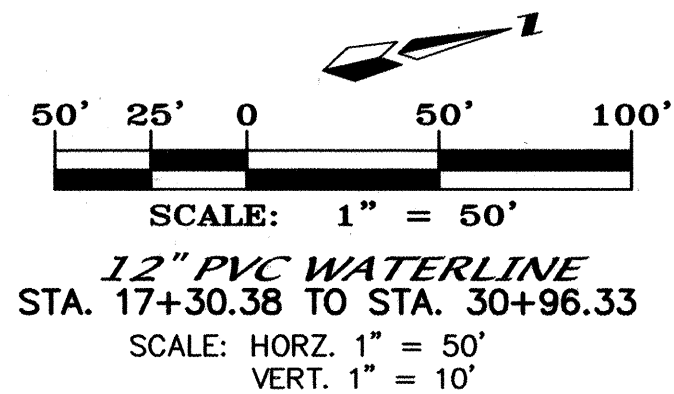
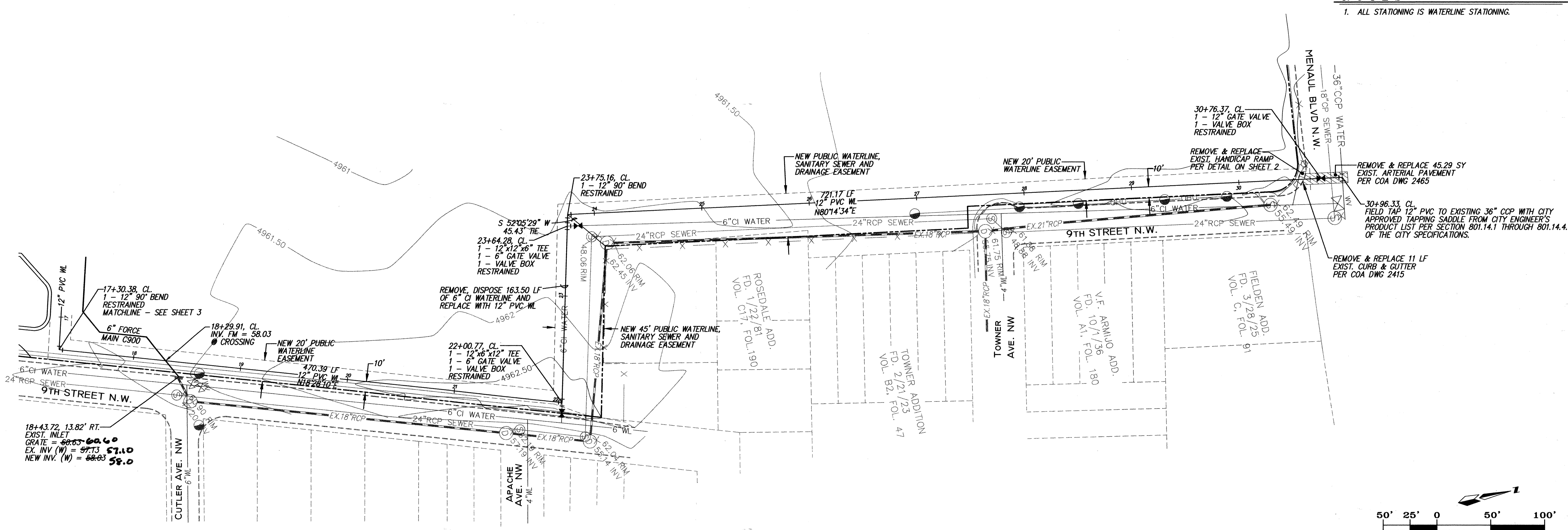
SURVEY INFORMATION			BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE	BENCHMARK IS AN ACS 1 3/4" ALUMINUM DISK, STAMPED: "ACS BM 11-1113", EXPOSED TO THE TOP OF A CONCRETE CURB AT THE W.W. CURB RETURN. ELEVATION = 4981.641 (SLD 1929)	CONTRACTOR	WORK STARTED BY	DATE
1	Barry Garibito	2/3/04		WIT Construction, Inc.	CSC	
				ACCEPTED BY	MSA	2/6/04
				FIELD DRAWING BY	CSC	
				DESIGNED BY	CSC	2/6/04
				CORRECTED BY		
				MICRO-FILM INFORMATION		
				RECORDED BY		DATE
				COA Inspector:		
				Mike Stricker		

ENGINEER'S SEAL			
39			
50			
50			
70			
80			
NO. DATE		REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY		G/K	DATE 04/03
DRAWN BY		ACH	DATE 04/03
CHECKED BY		DMG	DATE 04/03
THE INTERIOR ADQUARTERS EMENTS			
MO./DAY/YR.		MO./DAY/YR.	
NO.		SHEET OF	
4		3 7	

SCANNED BY
MESA REPRO

NOTES

1. ALL STATIONING IS WATERLINE STATIONING.



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Gregory J. Krenik, PE, NMPE 11929, of the firm Mark Goodwin & Associates, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by Gary Grisko, Southwest Surveying Company, NMPS number 8886.

[Signature] 2-13-04

2/13/04
As built information
[Signature]

30+00 31+00
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

TITLE: U.S. DEPARTMENT OF THE INTERIOR
B.I.A. S.W. REGIONAL HEADQUARTERS
WATERLINE IMPROVEMENTS

DESIGN REVIEW COMMITTEE
OCT 10 2003
DESIGN REVIEW COMMITTEE

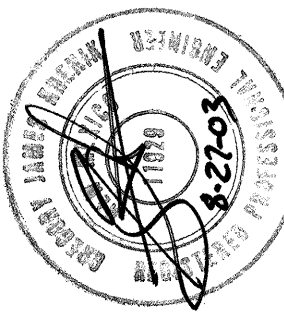
CITY ENGINEER APPROVAL
OCT 15 2003
CITY ENGINEER

LAST DESIGN UPDATE

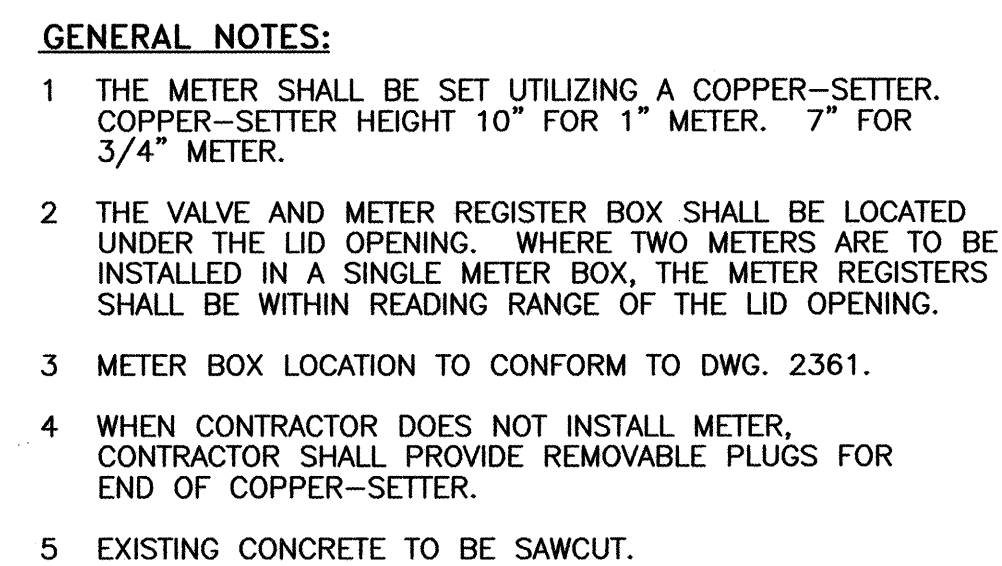
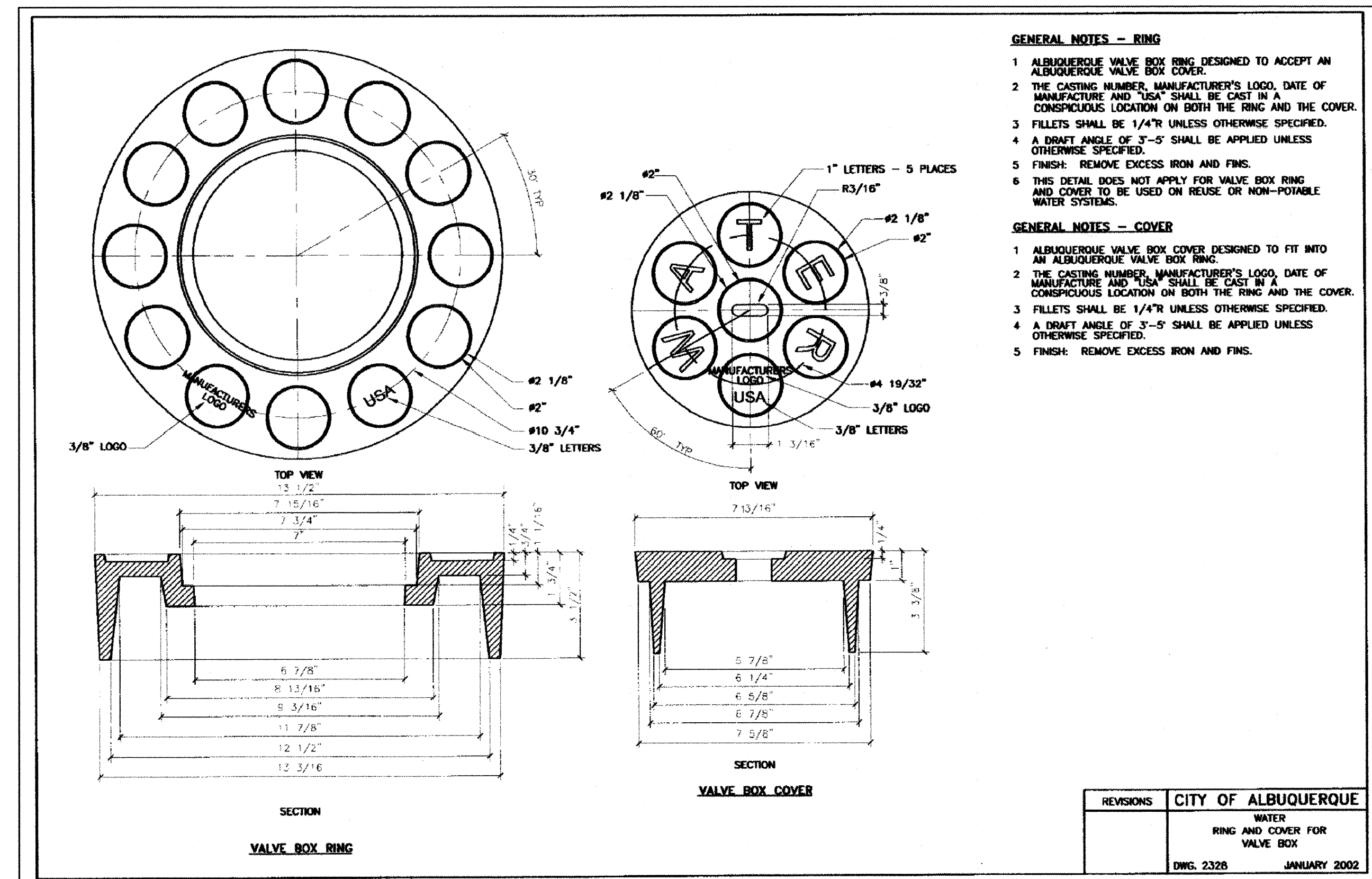
MO./DAY/YR.
MO./DAY/YR.

CITY PROJECT NO. 718681 ZONE MAP NO. H-14 SHEET 4 OF 7

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	WIT CONSULTING	BENCHMARK IS AN ACS 1 1/4" ALUMINUM DISK, STAMPED	DATE	NO.	BY	NO.	DATE
WORK	CSC	"ACS BM, 11-H13" EXPOSED TO THE TOP OF A CONCRETE CURB,	2/13/04	1	Gary Grisko		
INSPECTED BY	CSC	AT THE N.W. CURB RETURN.					
FIELD STATIONING BY	MSA	ELEVATION = 4961.641 (SD 1929)					
DATE	4/6/04						
DRAWINGS	CSC						
CORRECTED BY	CSC						
MICRO-FILM INFORMATION							
RECORDED BY							
NO.							



NO.	DATE	REMARKS	BY
1	04/03	DESIGN	GJK
2	04/03	REVISIONS	ACH
3	04/03	DESIGN	DMG



CONSTRUCTION NOTES:

- A STREET SURFACE.
- B BACK OF CURB.
- C CAST IRON METER BOX, COVER AND LID.
SEE DWG. 236B OR 2369.
- D 1/2" EXPANSION JOINT.
- E CURB STOP, LOCATE INSIDE METER BOX.
- F SIDEWALK OR DRIVEPAD.
- G METER. TOP OF METER TO BE 12"—18" BELOW COVER.
- H CORP STOP.
- J MAIN WATER LINE.
- K TAPPING SADDLE.
- L COPPER SERVICE LINE.
- M COPPER SETTER.
- N TAPPED TO PROTECTION LINE WITH INSTA—TITE I.P.T.
CAAPPED FITTING.
- Q CONCRETE PAD REQUIRED IN ALL AREAS.
- R #4 REBAR CONTINUOUS ALL AROUND METER BOX.
- S STABILIZER BAR. 12" LONG X 1/2" DIAMETER GALVANIZED
STEEL PIPE.
- T METER BOX LID SHALL BE FLUSH WITH SURROUNDING
SIDEWALK.

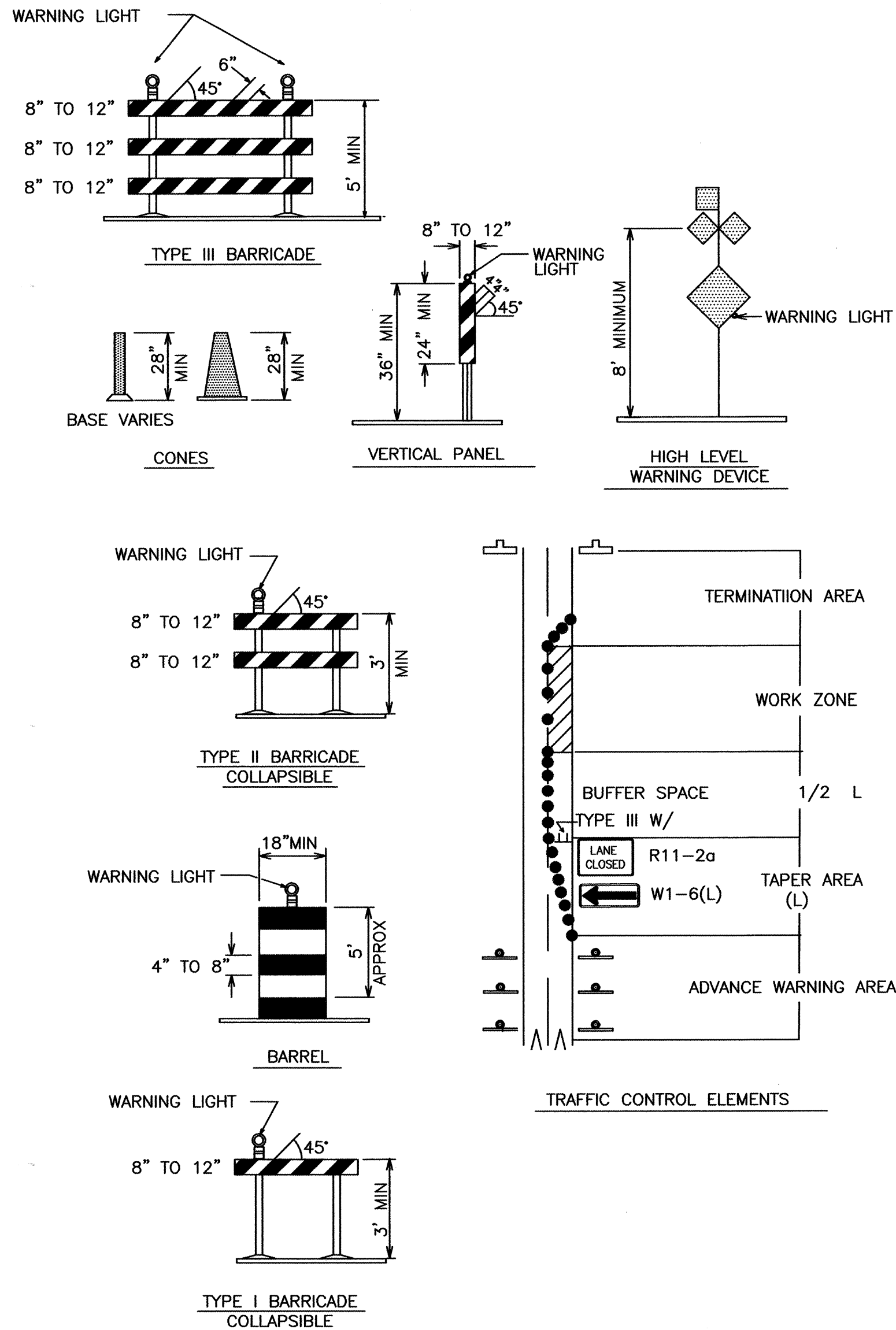
	MARK GOODWIN & ASSOCIATES, P.A. CONSULTING ENGINEERS		NO.	DATE	DESIGNED BY DRAWN BY CHECKED BY
	P.O. BOX 90606 ALBUQUERQUE, NEW MEXICO 87199 (505) 828-2200, FAX (505) 797-9539				
	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT				
TITLE: <i>U.S. DEPARTMENT OF THE INTERIOR B.I.A. S.W. REGIONAL HEADQUARTERS WATER DETAILS</i>					
DESIGN REVIEW COMMITTEE C.O.A. STANDARD	CITY ENGINEER APPROVAL C.O.A. STANDARD	LAST DESIGN UPDATE MO./DAY/YR. MO./DAY/YR. MO./DAY/YR. MO./DAY/YR.			
CITY PROJECT NO. 718681		ZONE MAP NO. H-14	SHEET 5 OF 7		

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 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, 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:
- STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
 - THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
 - 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.



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 STREET LIMIT OF THE STREET
- TAPER LENGTH - SEE CHART BELOW
- THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

TAPER REQUIREMENT

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

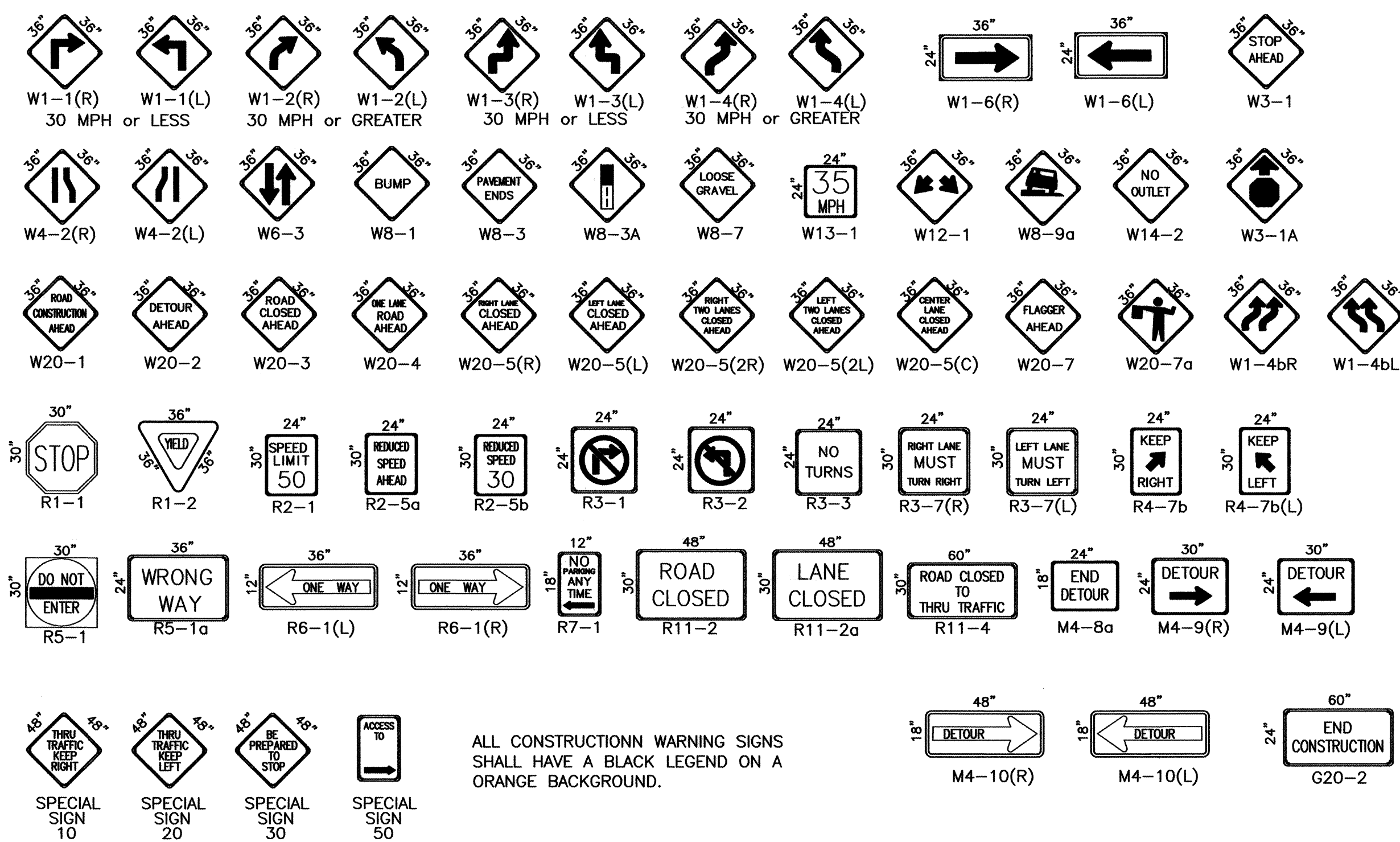
TAPER CRITERIA

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

TAPER LENGTH COMPUTATION

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

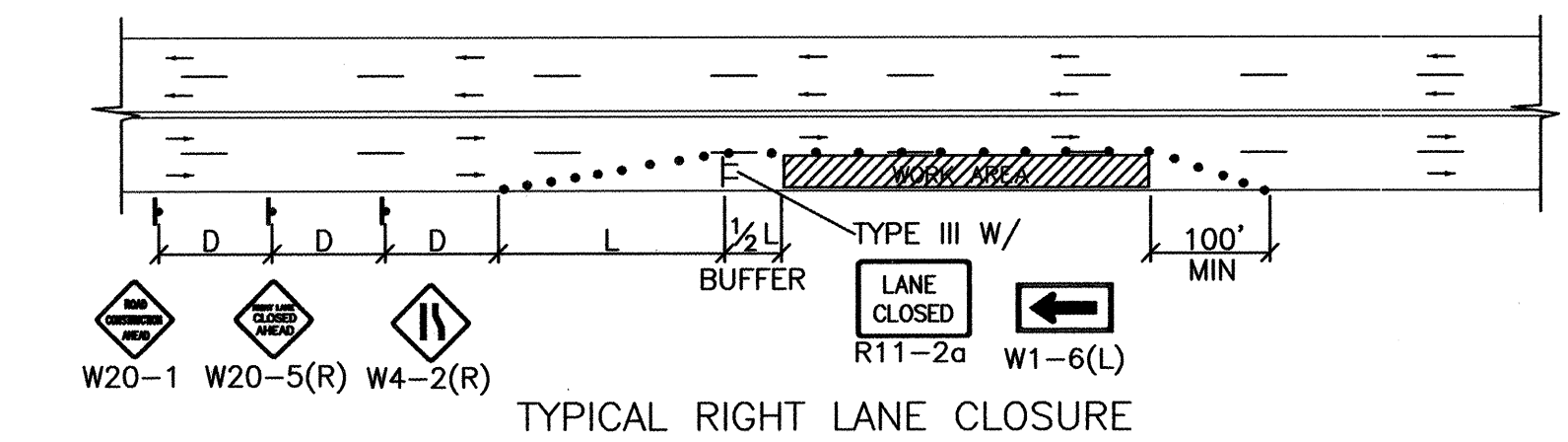
SIGN FACE DETAILS



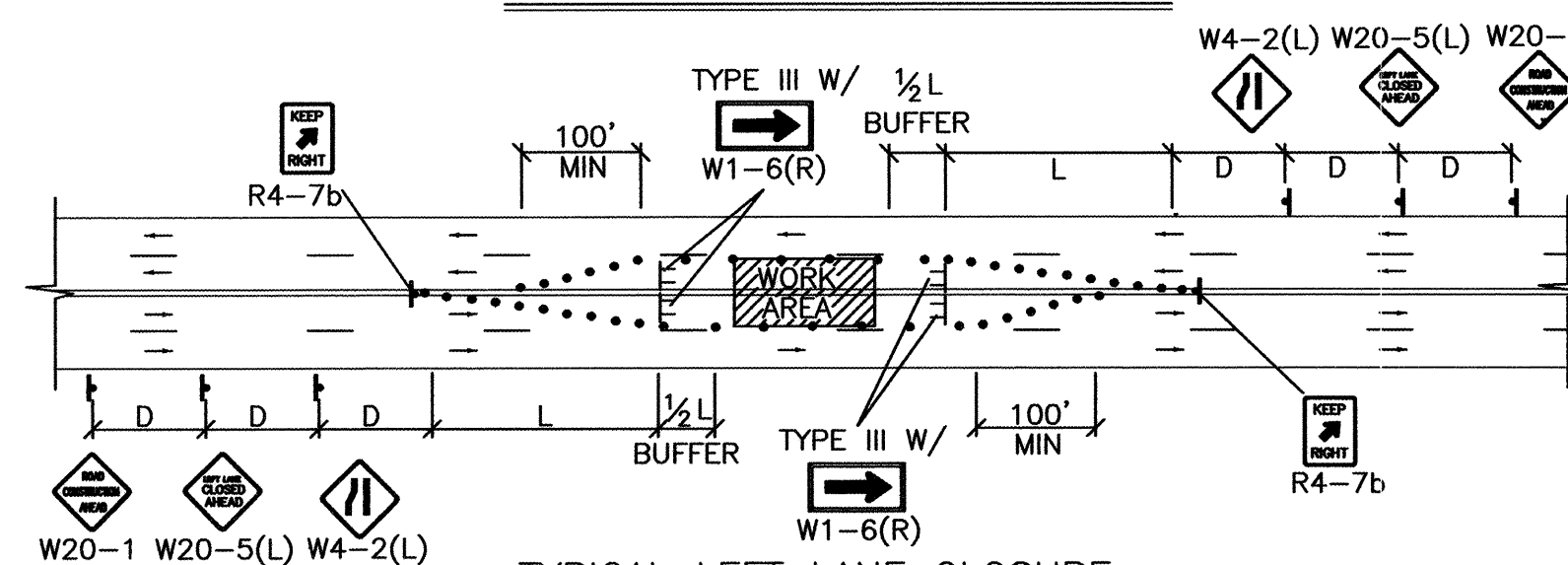
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: U.S. DEPARTMENT OF THE INTERIOR B.I.A. S.W. REGIONAL HEADQUARTERS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
C.O.A. STANDARD	C.O.A. STANDARD		
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
718681	H-14	6	7

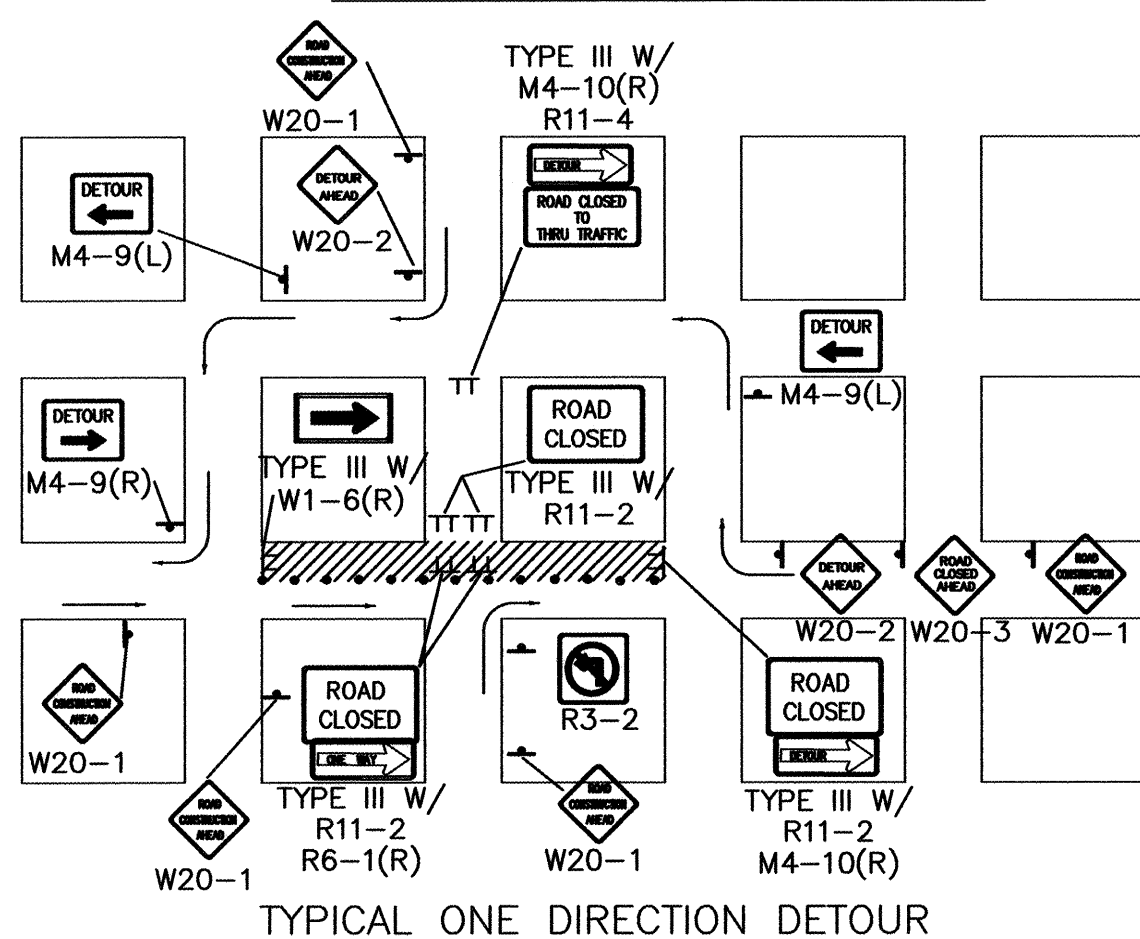
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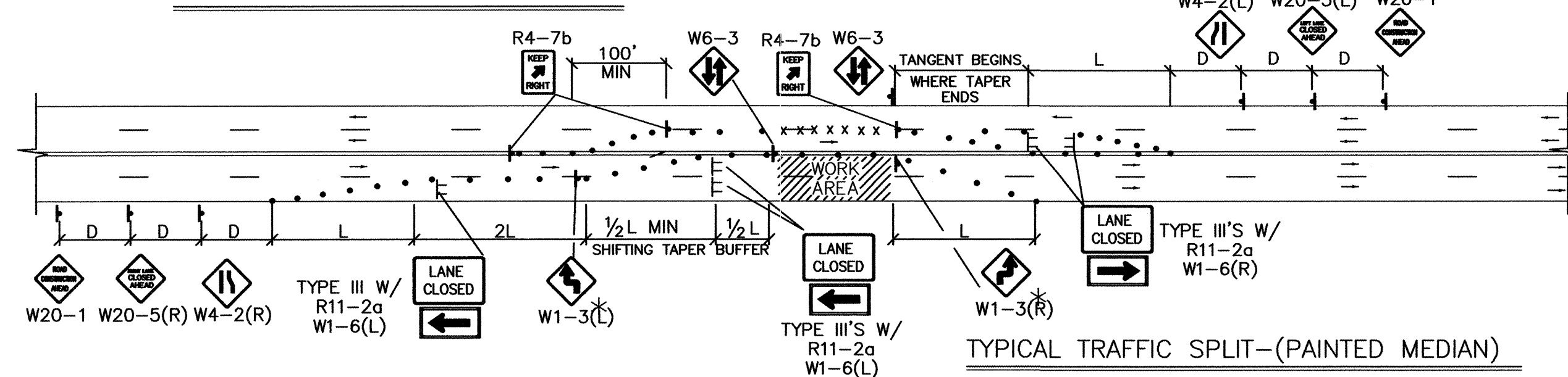
TYPICAL RIGHT LANE CLOSURE



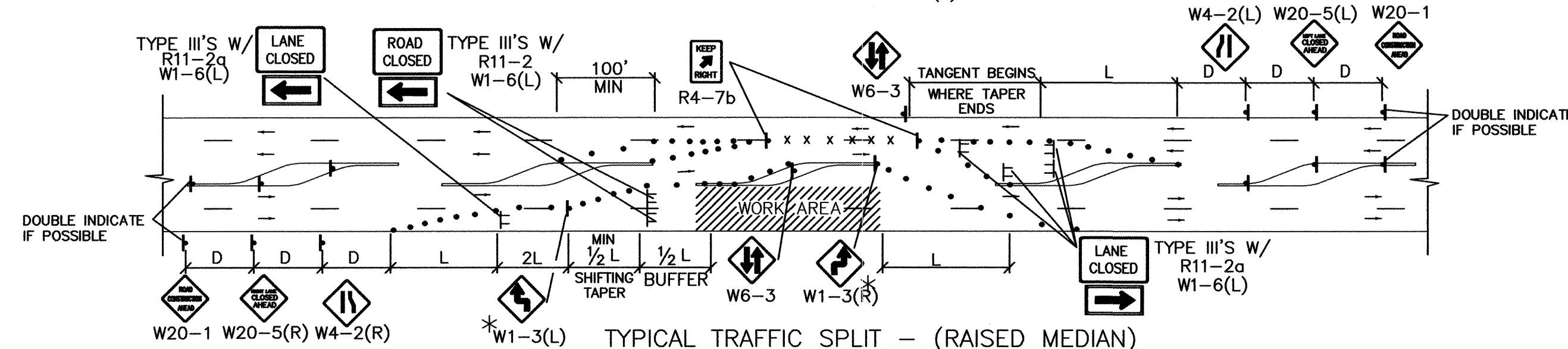
TYPICAL LEFT LANE CLOSURE



TYPICAL ONE DIRECTION DETOUR

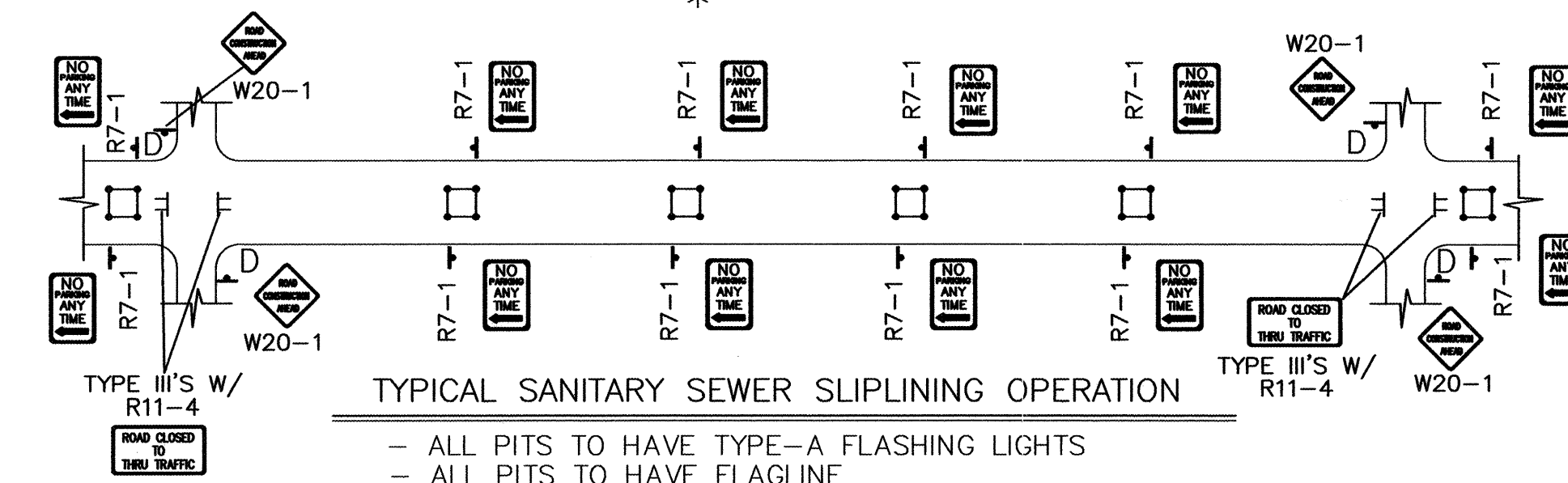


TYPICAL TRAFFIC SPLIT—(PAINTED MEDIAN)



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 THE 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.



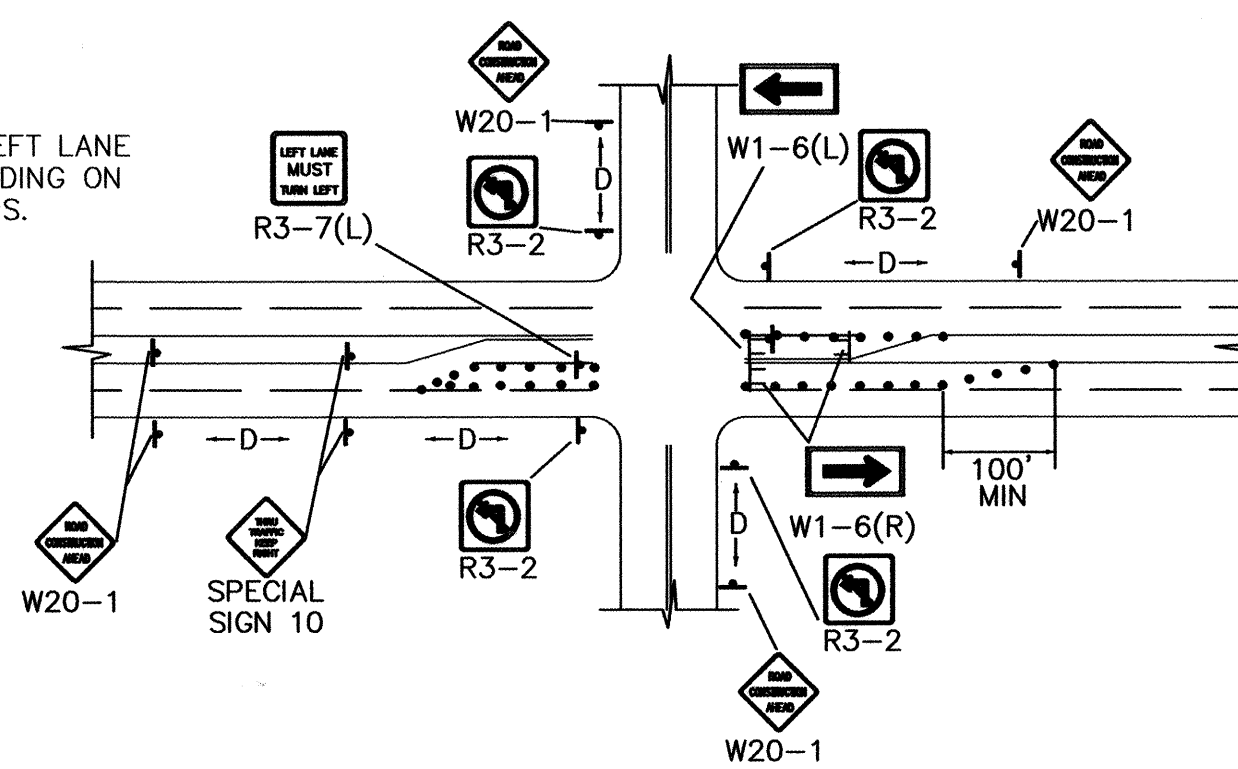
TYPICAL SANITARY SEWER SLIPLINING OPERATION

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

GENERAL NOTE:

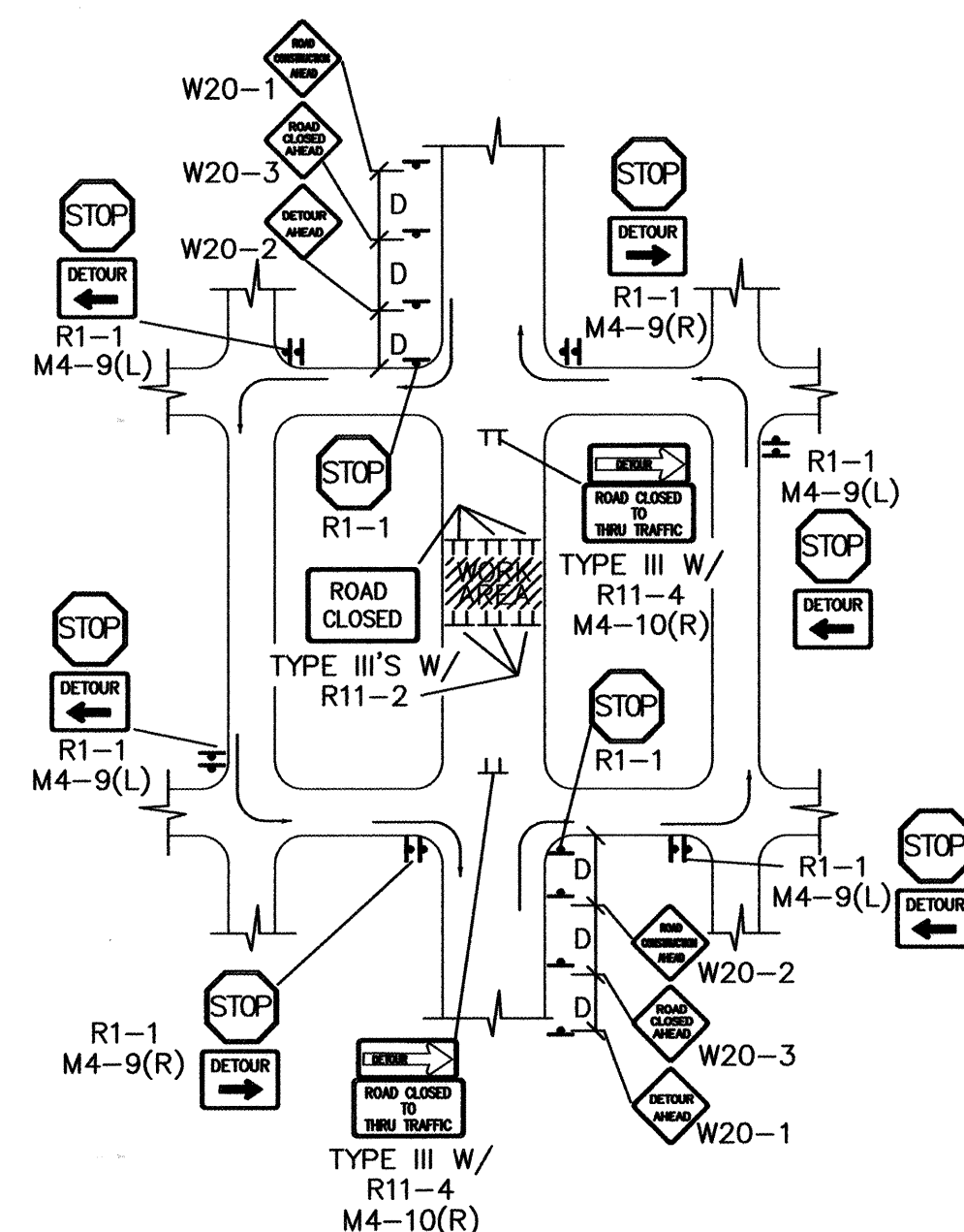
ALL CONSTRUCTION WARNING
SIGNS SHALL HAVE A BLACK
LEGEND ON A ORANGE
BACKGROUND.

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



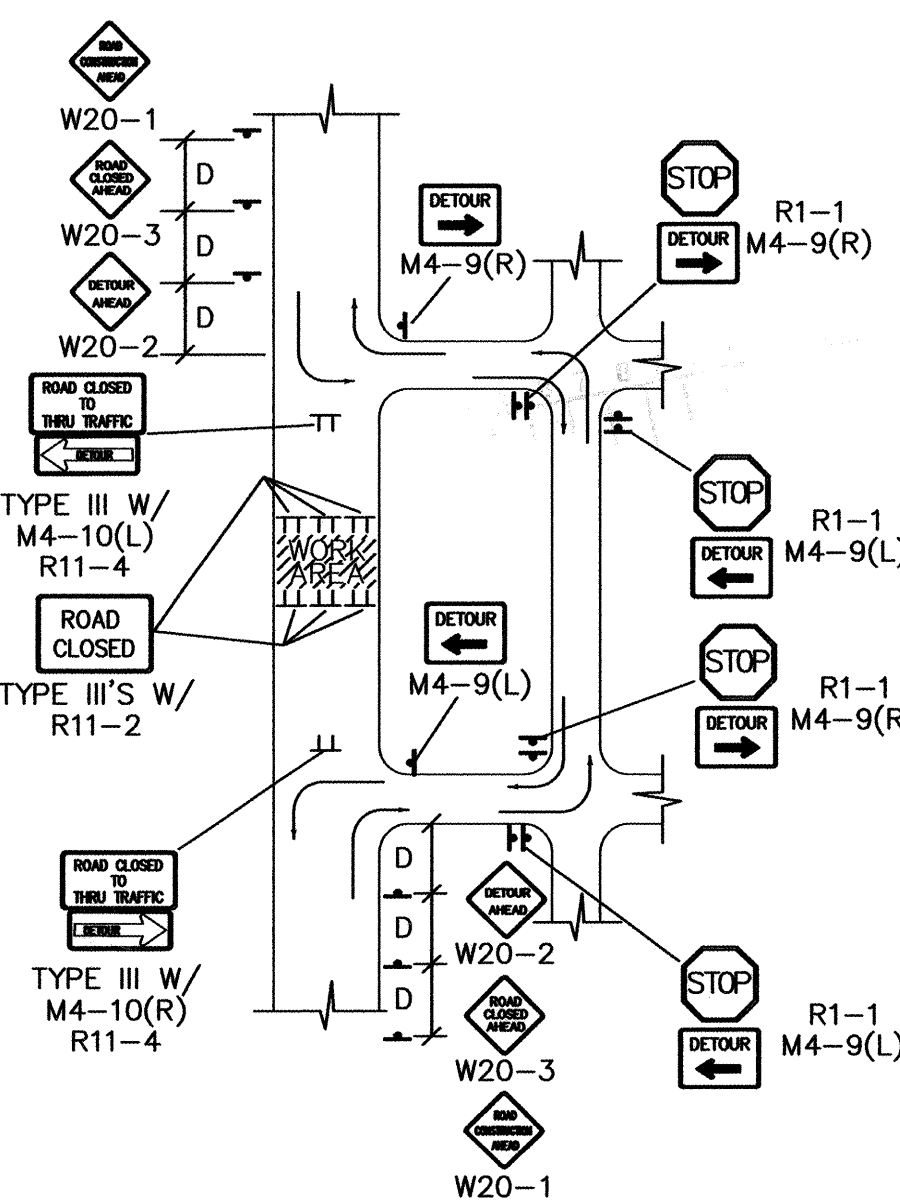
TYPICAL LANE CLOSURE AT INTERSECTION

NOTE: DEPENDING ON WORK ZONE LOCATION.



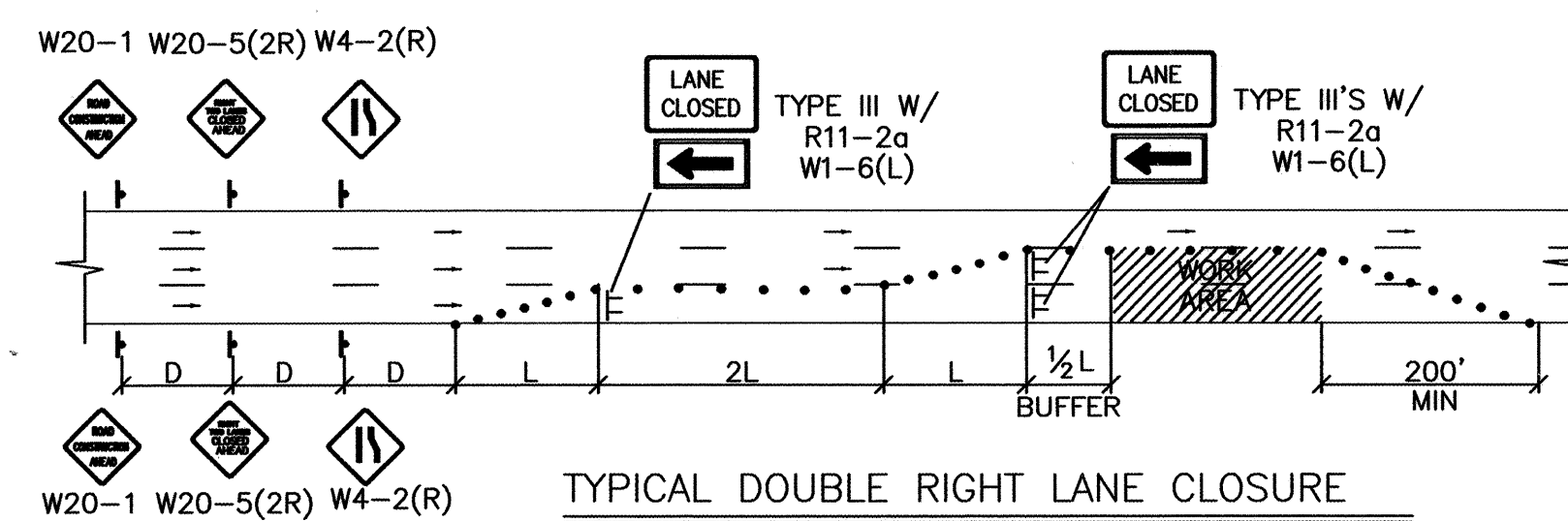
TYPICAL MID-BLOCK CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS

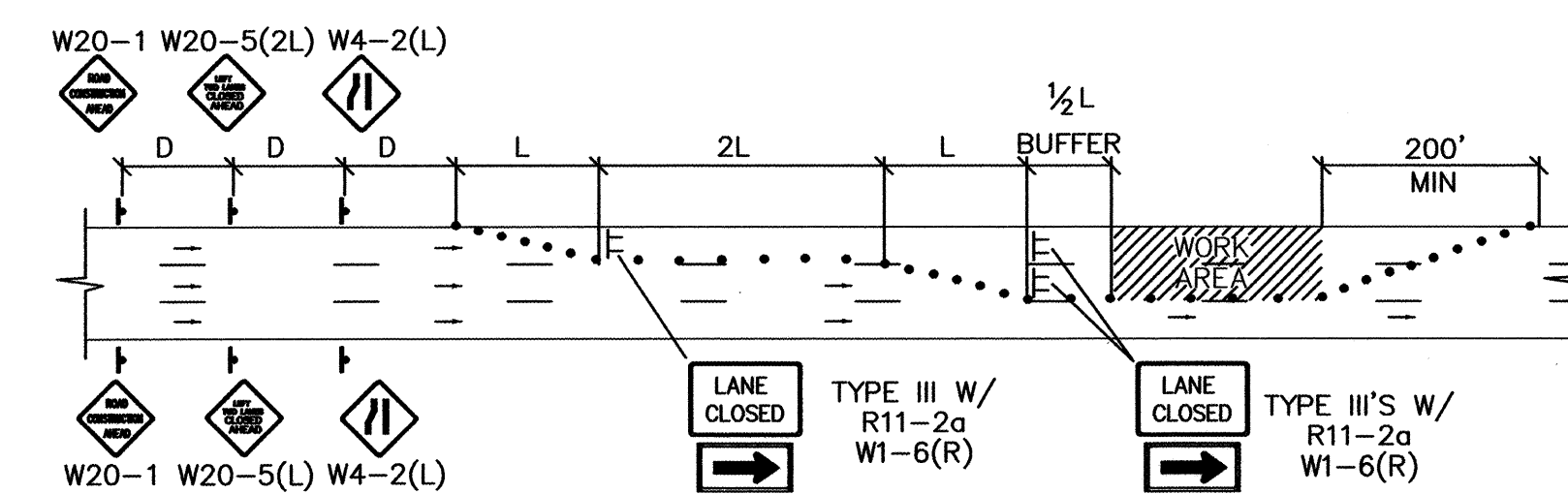


TYPICAL STREET CLOSURE

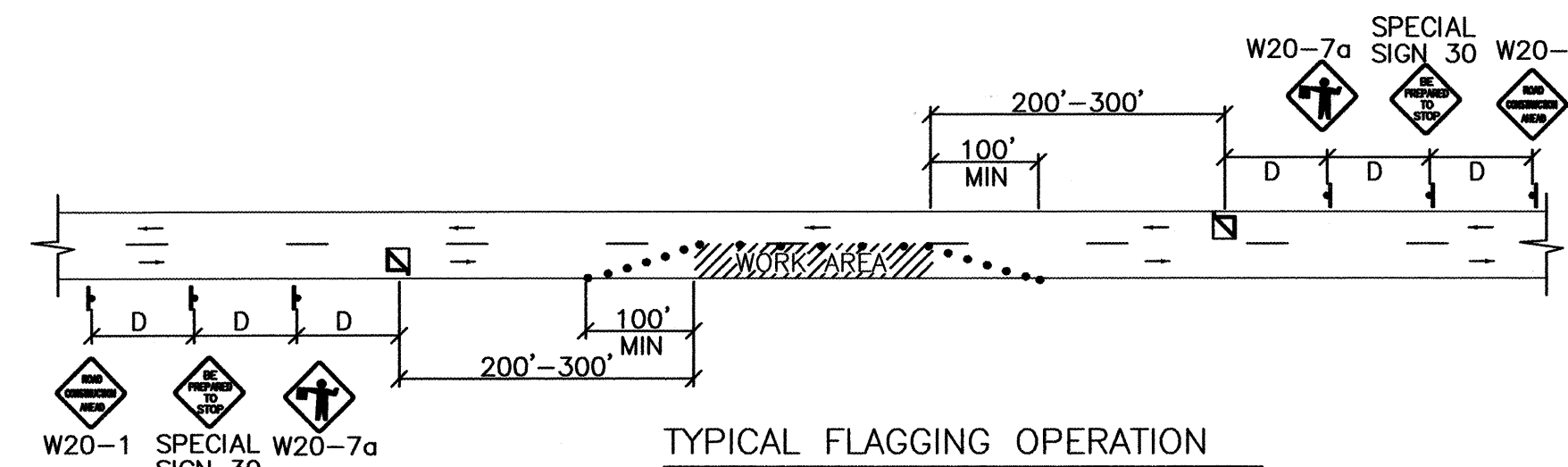
NOTE: (R1-1) BASED ON FIELD CONDITIONS



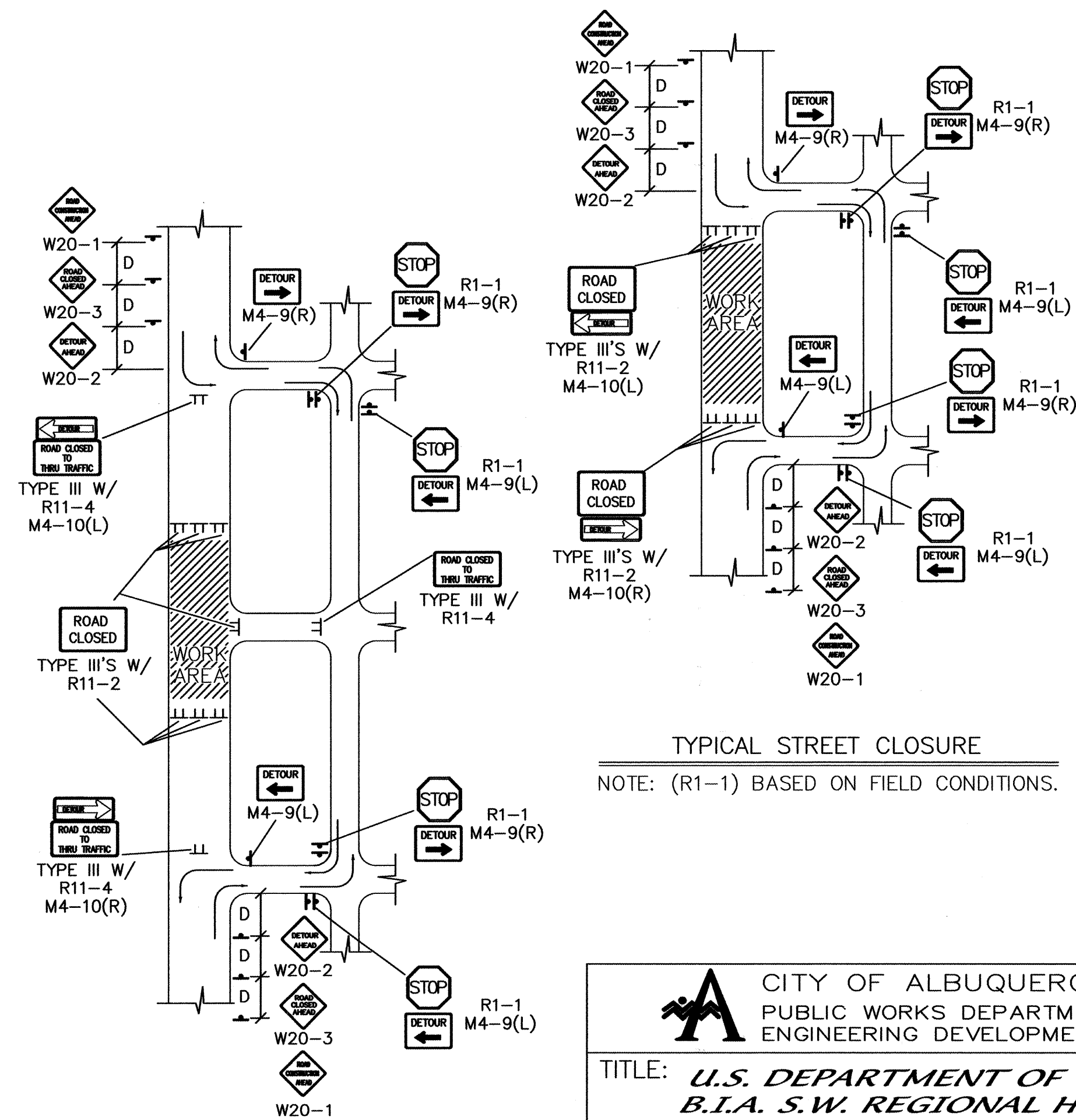
TYPICAL DOUBLE RIGHT LANE CLOSURE



TYPICAL DOUBLE LEFT LANE CLOSURE



TYPICAL FLAGGING OPERATION



TYPICAL STREET CLOSURE

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

		CITY OF ALBUQUERQUE			
		PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: <i>U.S. DEPARTMENT OF THE INTERIOR B.I.A. S.W. REGIONAL HEADQUARTERS</i>					
DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL		LAST DESIGN UPDATE	MO./DAY/YR.
C.O.A. STANDARD		C.O.A. STANDARD			
CITY PROJECT NO.			ZONE MAP NO.	SHEET	OF
<i>718681</i>			<i>H-14</i>	<i>7</i>	<i>7</i>