

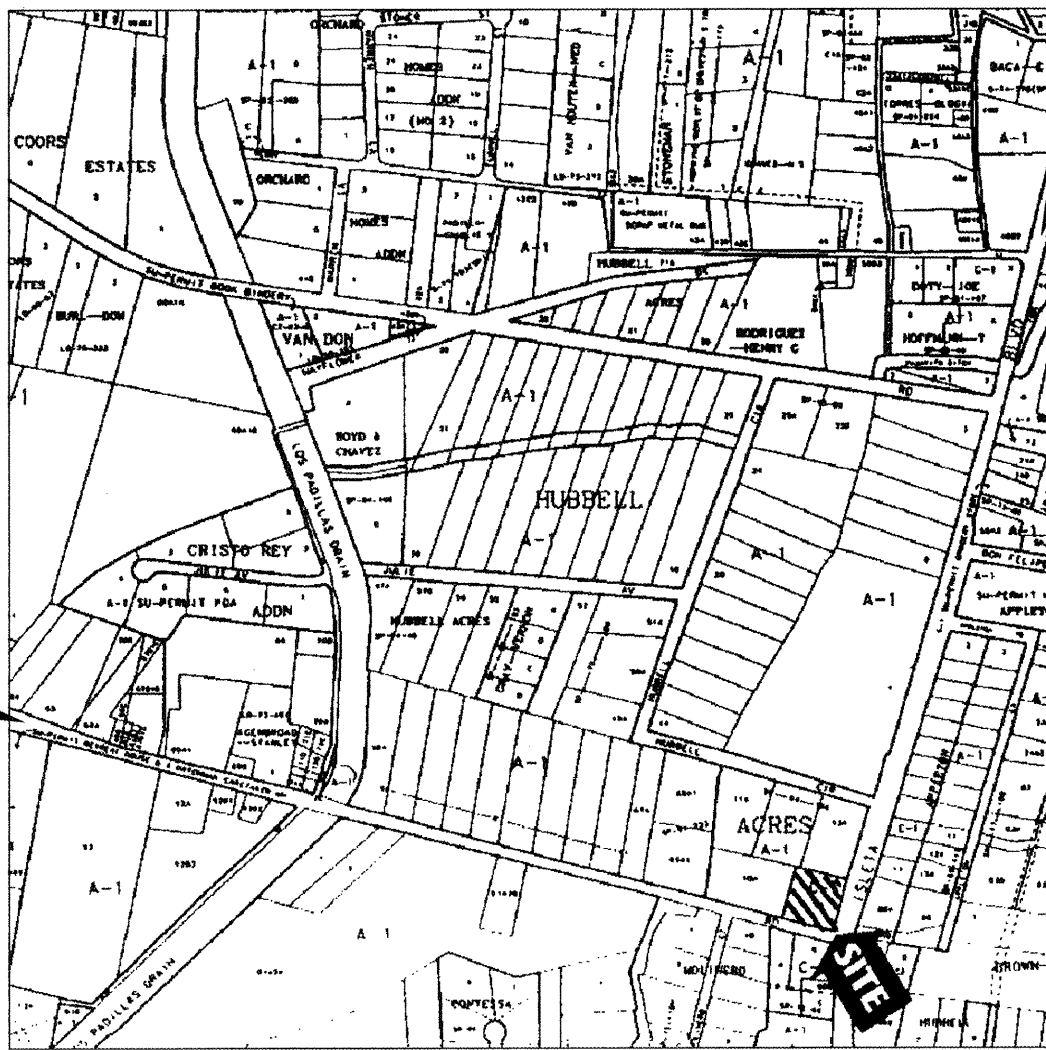
ABUELITAS NEW MEXICAN RESTAURANT

ISLETA S.W. and PAJARITO RD. S.W.
Bernalillo County, New Mexico

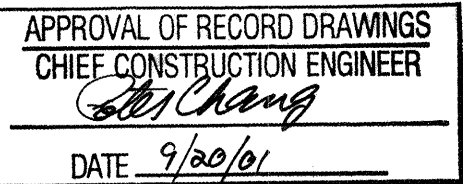
VACUUM SEWER SERVICE CONNECTION ISLETA S.W.

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN
3 - 5	CITY OF ALBUQUERQUE STANDARD DETAILS
6	TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES
7	SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS



VICINITY MAP
ZONE ATLAS MAP R-11-Z



CITY OF ALBUQUERQUE GENERAL NOTES

THESE NOTES APPLY TO ALL PHASES OF THE WORK EXCEPT TRAFFIC CONTROL AND PAVEMENT CUT AND PATCH OPERATIONS.

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986 EDITION AS AMENDED WITH UPDATE NO. 6.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM DELAY.
- WARNING - THE ENGINEER HAS UNDERTAKEN NO VERIFICATION OF THE EXISTENCE, LOCATION, SIZE, DEPTH, OR TYPE OF UNDERGROUND UTILITY WITHIN THE CONSTRUCTION AREA AND MAKES NO REPRESENTATION PERTAINING TO THESE UTILITIES. THE UTILITIES THAT HAVE BEEN SHOWN ARE BASED ON AVAILABLE INFORMATION FROM THE OWNER, UTILITY COMPANIES, GOVERNING AGENCY, OR OTHERS. THIS INFORMATION MAY BE INCOMPLETE, INACCURATE, OR OBSOLETE. THE CONTRACTOR SHALL CONTACT THE UTILITY LOCATION SERVICE AT 255-1990 AT LEAST TWO (2) FULL WORKING DAYS PRIOR TO START OF CONSTRUCTION TO HAVE THE UTILITIES SPOTTED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING THE EXISTING UTILITIES THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY UTILITIES DAMAGED DURING CONSTRUCTION TO THE SATISFACTION OF THE GOVERNING AUTHORITIES HAVING JURISDICTION OVER THE UTILITY THAT HAS BEEN DAMAGED.
- TRAFFIC CONTROL: SHALL BE PERMITTED BY BERNALILLO COUNTY PER THE GENERAL NOTES BELOW.
- THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND MAINTAINING ALL EXISTING MONUMENTATION CONTROLS. IN THE EVENT OF INADVERTENT DESTRUCTION OR ALTERATION THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE CITY CHIEF SURVEYOR.
- ALL ROADWAY STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTIVE PAVEMENT MARKING BY THE CONTRACTOR AT THE ORIGINAL LOCATION OR AS INDICATED BY THIS PLAN SET.

BERNALILLO COUNTY GENERAL NOTES

THESE NOTES APPLY ONLY TO TRAFFIC CONTROL AND PAVEMENT CUT AND PATCHING OPERATIONS.

- INSPECTION BY BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT IS REQUIRED. CONTRACTOR MUST OBTAIN PERMITS AT BERNALILLO COUNTY PUBLIC WORKS DIVISION. PHONE 848-1520.
- ANY PAVEMENT REQUIRING REPAIR OR REPLACEMENT SHALL BE SAW CUT THE ENTIRE DEPTH OF THE ASPHALT. SAW CUT PAVEMENT SHALL BE A MINIMUM OF TWO FEET WIDER THAN THE TRENCH SECTION ON EACH SIDE.
- ANY CONCRETE REQUIRING REPAIR OR REPLACEMENT MUST BE SAWCUT A MINIMUM OF 2/3 THE DEPTH OF THE SLAB. SAW CUT PROFILE CONCRETE (CURB AND GUTTER) COMPLETELY OR REMOVE CONCRETE TO THE NEAREST STONE OR CONSTRUCTION JOINT.
- PRIOR TO REPLACING ANY PAVEMENT OR CONCRETE, CONTRACTOR SHALL COORDINATE WITH BERNALILLO COUNTY TO HAVE AN INSPECTOR VERIFY THE EXISTING THICKNESS. THE REPLACEMENT PAVEMENT SECTION SHALL EQUAL OR EXCEED THE THICKNESS AND QUALITY OF THE EXISTING PAVEMENT.
- ALL ASPHALT, CURB AND GUTTER, SIDEWALK, OR ANY OTHER PUBLIC OR PRIVATE INFRASTRUCTURE COMPONENT DAMAGED BY CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO EQUAL OR BETTER CONDITION THAN EXISTED PRIOR TO CONSTRUCTION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE EVIDENCE OR PRIOR CONDITION IN THE EVENT OF A DISPUTE.
- BARRICADING AND CONSTRUCTION PERMITS MUST BE OBTAINED FROM BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION EFFORTS.
- DESIGN REVIEW FEES, ARE, ACCORDING TO THE FEE SCHEDULE OF THE ENGINEER'S ESTIMATE FOR WORK WITHIN THE COUNTY RIGHT-OF-WAY, DUE AT WHEN THE CONSTRUCTION PERMIT IS ISSUED.
- THE CONSTRUCTION PROCESS AND THE COMPLETED CONSTRUCTION SHALL IN NO WAY ALTER ANY EXISTING DRAINAGE PATTERNS AND MUST NOT IMPACT SURROUNDING PROPERTIES.

APPROVED FOR CONSTRUCTION

BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT

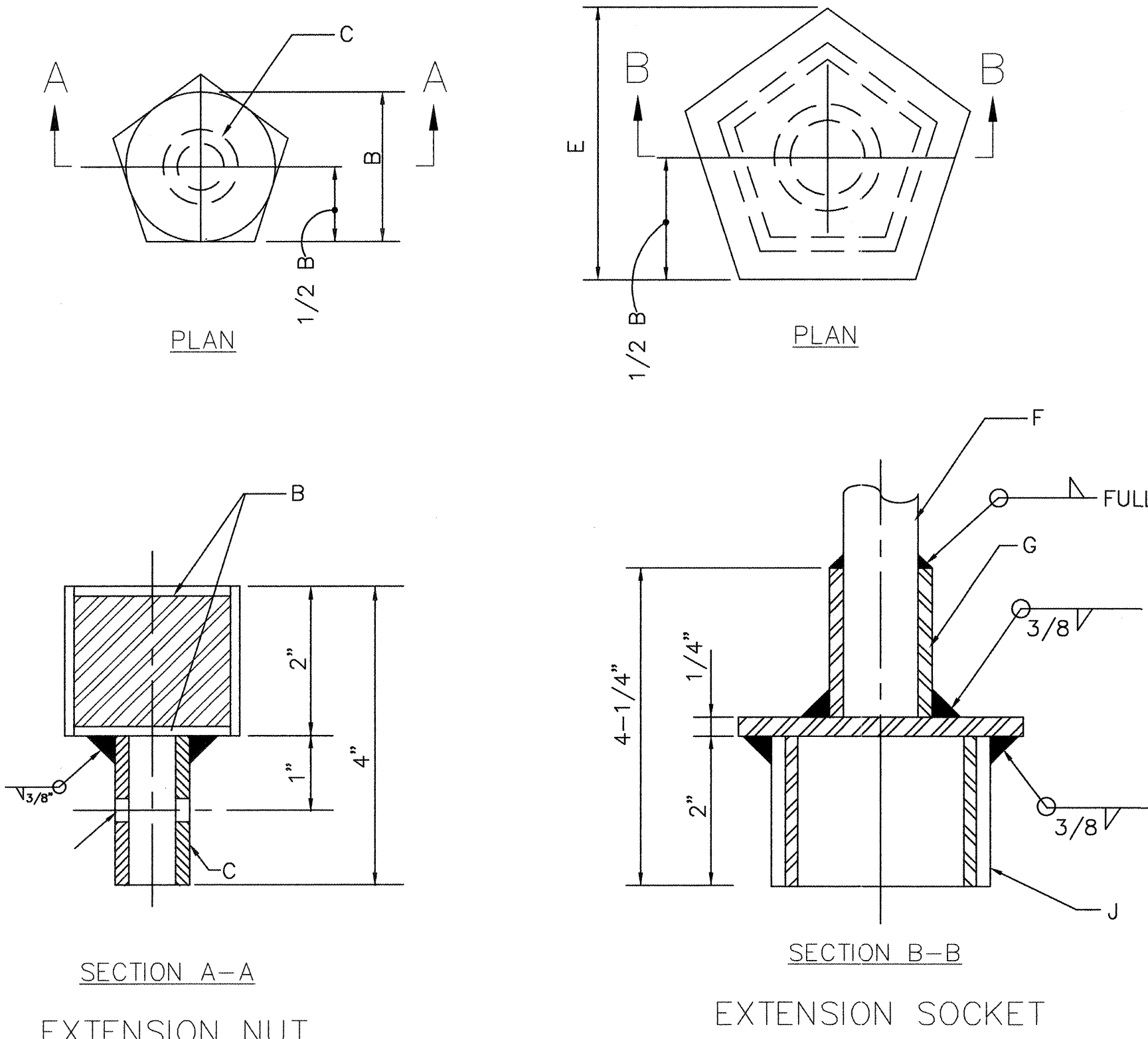
BY: Roland S. Penttila DATE: 6/21/01



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

LARRY READ & ASSOCIATES, Inc
Civil Engineers
#194 8100-M4 Wyoming Blvd. NE
Albuquerque, New Mexico 87113
(505) 237-8421 Fax (505) 237-8422

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS	ENGINEER	DATE	*****		
		DRC Chairman	<u>[Signature]</u>	<u>6-26-01</u>	APPROVED FOR CONSTRUCTION <u>[Signature]</u> 7/2/01 City Engineer Date		
		Transportation	<u>N/A</u>	<u>6-21-01</u>			
		Water/Wastewater	<u>[Signature]</u>	<u>6/21/01</u>			
		Hydrology	<u>[Signature]</u>	<u>6/21/01</u>			
		CIP	<u>[Signature]</u>	<u>6-21-01</u>			
		Constr. Coord.	<u>N/A</u>	<u>6-21-01</u>			
City Project No.					Sheet Of		
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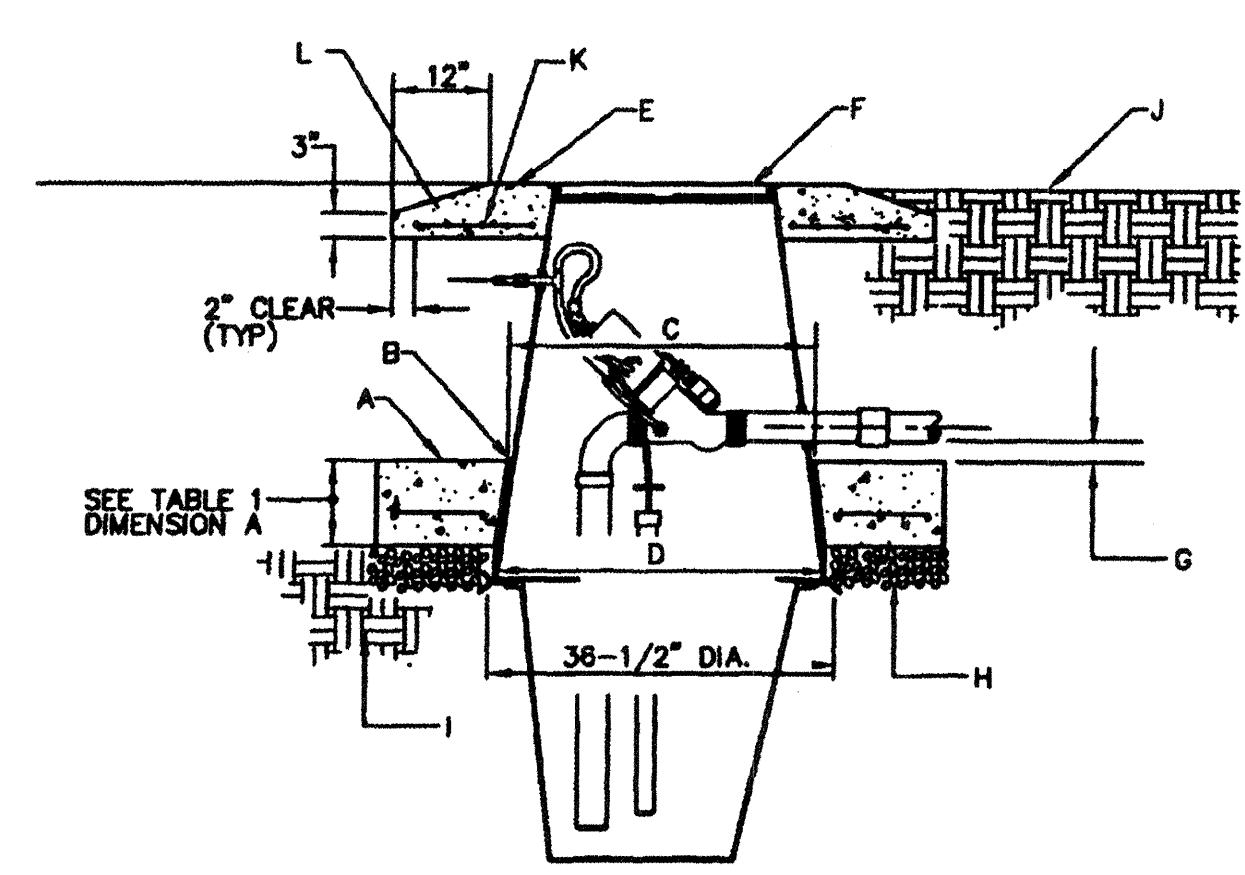
GENERAL NOTES:

- THESE NUTS AND SOCKETS ARE A PART OF THE VALVE STEM EXTENSION, SEE VACUUM DIVISION VALVE VAULT DWG. 2170

CONSTRUCTION NOTES:

- 2" LONG H.R. STEEL BAR, 2" x 2"
- 2" DIA. STEEL CIRCLE W/ PENTAGON CIRCUMSCRIBED ABOUT CIRCLE
- 1" DIAMETER, SCH 40 PIPE x 2" (1.315 O.D. x 1.049 I.D.)
- DRILL .312 DIAMETER HOLE THROUGH PIPE FOR .31 DIAMETER CLEVIS PIN/CLOTTER PIN.
- 3-1/4"
- 1" DIAMETER EXTENSION BAR, 6 FEET LONG. W/ T HANDLE.
- 1" DIAMETER, SCH 40 x 2" (1.315 O.D. x 1.049 I.D.)
- PENTAGONAL SHAPED x 1/4" H.R. STEEL PLATE 1/2" LARGER THAN TUBULAR SECTION BELOW
- 2" LONG H.R. STEEL PENTAGONAL SHAPED TUBULAR SECTION x .1875 WALL W/ 1/8" TOTAL CLEARANCE TO EXTENSION NUT.

REVISIONS	CITY OF ALBUQUERQUE
AUG. 1996	SEWER
APR. 1997	VACUUM DIVISION VALVE STEM NUTS AND SOCKETS
	DWG. 2169 DEC. 1993



DESCRIPTION	DIM. A
30" SUMP PACKAGE	7 1/2"
54" SUMP PACKAGE	9 1/2"

(SEE STD. DWG. 2165)

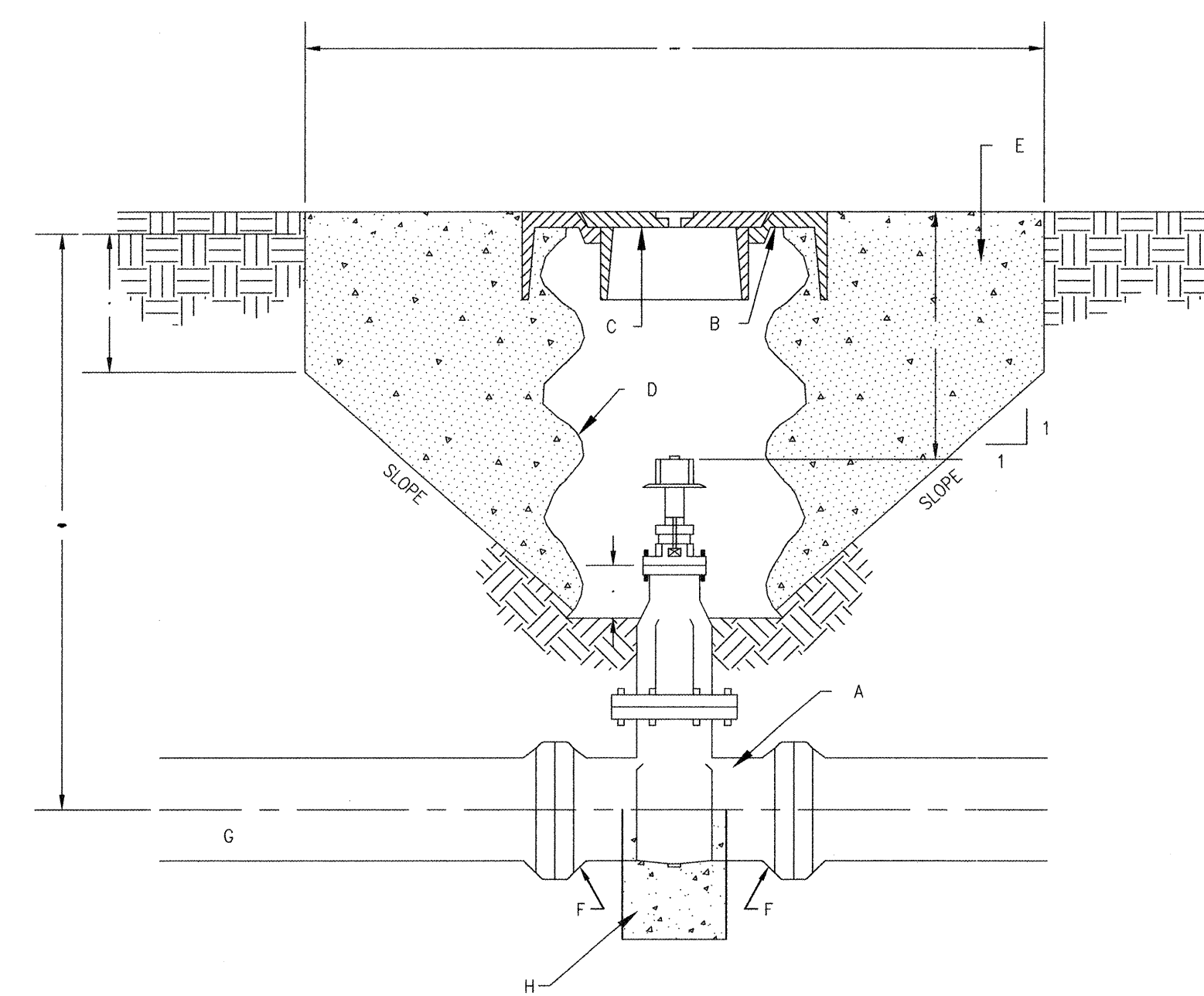
GENERAL NOTES:

- ALL COMPACTION OF SUBGRADE AND BACKFILL FOR INSTALLATION OF VACUUM VALVE PIT TO BE 95% OF MAXIMUM DRY DENSITY PER ASTM D 1557.
- AVOID EXCESSIVE EXPOSURE TO SUNLIGHT OF OPEN VACUUM VALVE PITS. CLOSE & COMPLETE WITHIN 3 DAYS TO INSURE INTEGRITY OF RUBBER O-RING.
- SEE STANDARD DRAWING 2165 FOR ADDITIONAL DETAILS.

CONSTRUCTION NOTES:

- 62" SQUARE CONC. ANTI-FLOTATION COLLAR; WITH #4 REBAR @ 6" E.W. 3" FROM EDGE OF CONC. SEE TABLE 1 FOR THICKNESS.
- CLEARANCE BETWEEN CONCRETE COLLAR AND FIBERGLASS PIT.
- 35" DIA. OPENING @ TOP OF SLAB.
- 35-1/2" DIA. OPENING @ BOTTOM OF SLAB.
- 5' DIA. x 6" THICK OCTAGONAL CONC. PAD AROUND MH OPENING TO MATCH FINISH GRADE W/TAPER AS SHOWN.
- CAST IRON MANHOLE FRAME AND COVER; SEE C.O.A. STD. DWG. 2165
- 1" CLEARANCE TO BOTTOM OF 3" LATERAL
- 3" THICK 3/4" GRAVEL
- COMPACTED SUBGRADE
- FINISH GRADE
- 6" x 6" x NO. 6 GA. WIRE MESH.
- IN UNPAVED AREAS SET FRAME 1" ABOVE GRADE & SLOPE TOP OF PAD DOWN 1" BELOW GRADE

REVISIONS	CITY OF ALBUQUERQUE
NOV. 1994	VACUUM SEWER
AUG. 1996	VACUUM VALVE PIT TYPE "B"
APR. 1997	FOR USE IN UNPAVED AREAS
	DWG. 2172 DEC. 1993



CONSTRUCTION NOTES:

- RESILIENT COATED WEDGE GATE VALVE AS MANUFACTURED BY WATEROUS OR EQUAL. SUPPLY WITH 2"-5 SIDED NUT PER STANDARD DRAWING 2169.
- RING
- COVER
- 10" DIA. RIBBED OR CORRUGATED PVC OR PE PIPE WITH SMOOTH INTERIOR.
- CONCRETE COLLAR, INSCRIBE CONCRETE WITH SIZE OF VACUUM LINE AND DIRECTION OF FLOW (MIN. 2" LETTERING). IN PAVED AREAS, INSTALL COLLAR FLUSH WITH PAVEMENT. IN UNPAVED AREAS, SET RING 1" ABOVE GRADE AND SLOPE TOP OF PAD 1" BELOW GRADE.
- MEGALUG RESTRAINING GLAND.
- VACUUM LINE
- VALVE ANCHORAGE PER CITY STD. DWG. 2333.

REVISIONS	CITY OF ALBUQUERQUE
(1)1-5-95	VACUUM DIVISION
(2)8-23-96	VALVE VAULT
(3)4-24-97	
(4)3-10-98	DWG. 2170

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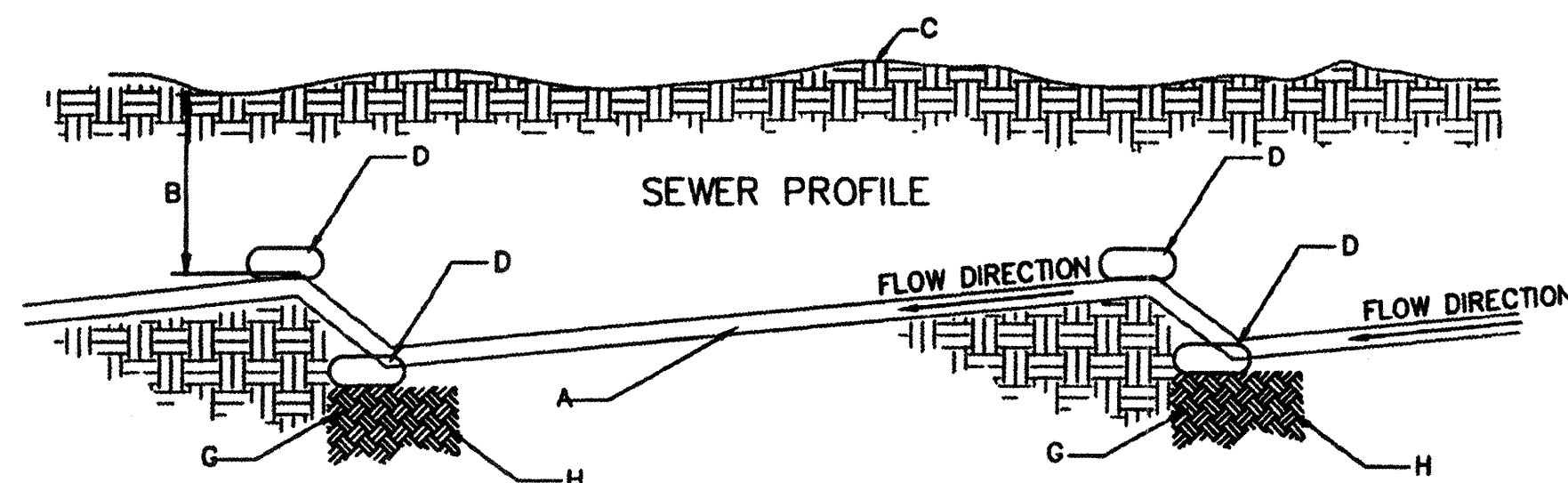
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ABUELITAS NEW MEXICAN RESTAURANT
VACUUM SEWER SERVICE LINE INSTALLATION
CITY STANDARD DETAILS

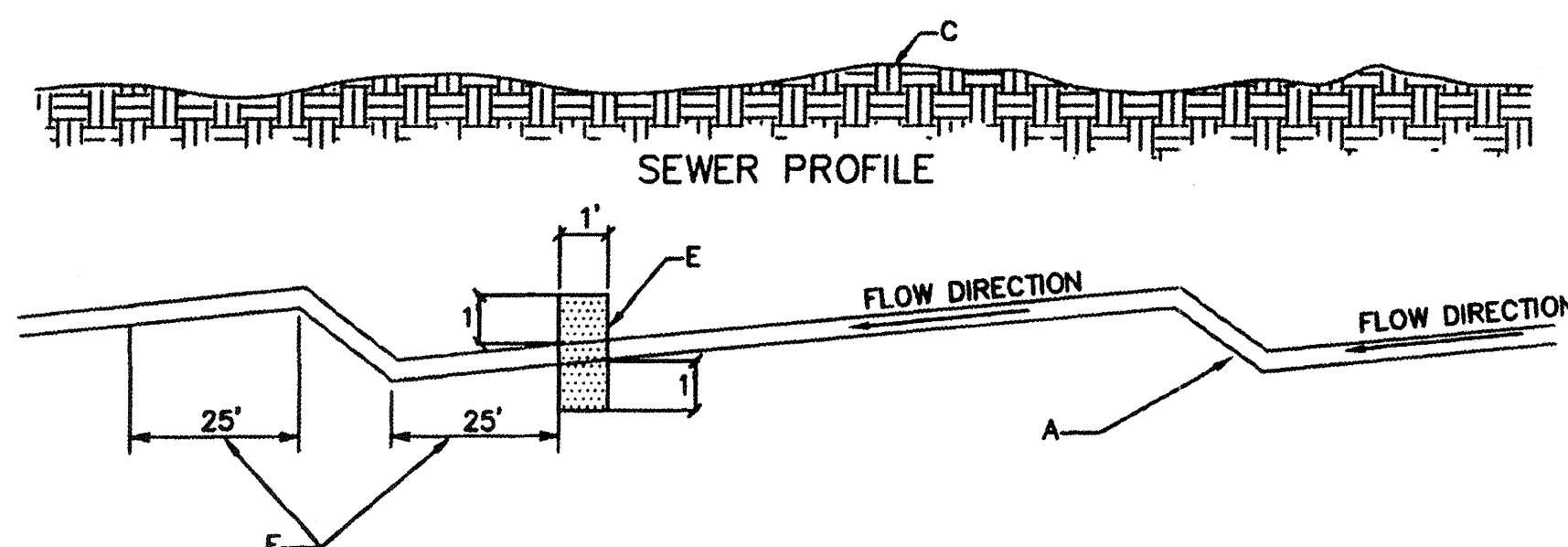
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED JUN 26 2001 DESIGN REVIEW COMMITTEE	APPROVED JUL 12 2001 CITY ENGINEER		

City Project No. 6658.81 Zone Map No. R-11 Sheet 4 of 7

ENGINEER'S SEAL	SURVEY INFORMATION	BENCH MARKS	AS BUILT INFORMATION	CONTRACTOR	DATE
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NO.	BY	DATE	U.S.G.S. BRASS CAP "11" LOCATED AT THE SOUTHWEST CORNER OF THE SITE AS SHOWN. (NGVD29) 4912.292.	CONTRACTOR	DATE
				WORK STAGED BY	DATE
NO.	BY	DATE	U.S.G.S. BRASS CAP "11" LOCATED AT THE SOUTHWEST CORNER OF THE SITE AS SHOWN. (NGVD29) 4912.292.	CONTRACTOR	DATE
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				WORK STAGED BY	DATE
NO.	BY	DATE	U.S.G.S. BRASS CAP "11" LOCATED AT		



BLOCKING DETAIL



SEEPAGE COLLAR DETAIL

GENERAL NOTES:

1. BENTONITE COLLAR TO BE INSTALLED EVERY 250' ALONG VACUUM SEWER RUN.
2. BENTONITE SEEPAGE COLLARS ARE FOR VACUUM SEWER MAINS AND FORCEMAINS INSTALLED IN MRCD IRRIGATION LATERAL RIGHTS-OF-WAY OR AS SHOWN ON CONSTRUCTION DRAWINGS.

CONSTRUCTION NOTES:

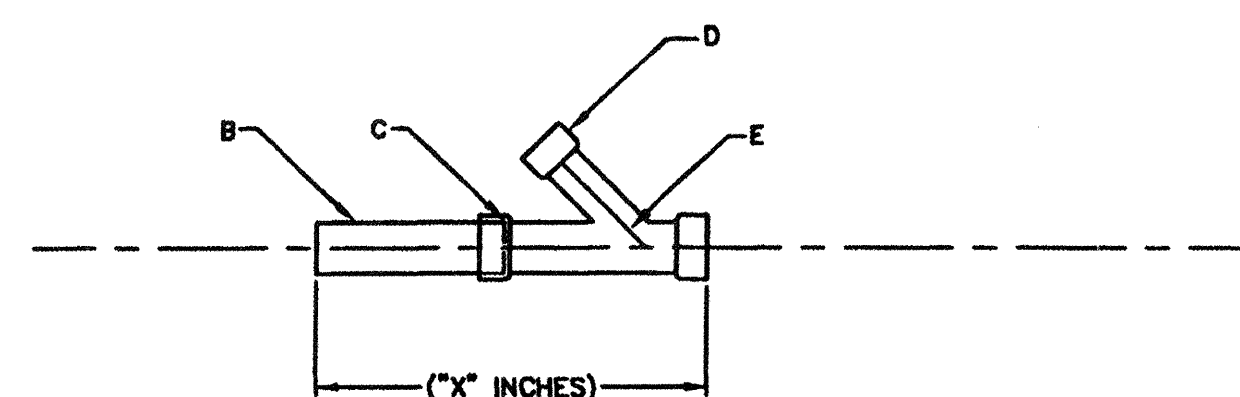
- A. 4", 6", 8" OR 10" VACUUM SEWER.
- B. DEPTH PER PLANS
- C. FINISH GRADE
- D. 80 LB BAG OF REDI-MIX CONCRETE WITH CUT ON TOP.
- E. BENTONITE SEEPAGE COLLAR; SEE SPECS. BELOW
- F. MIN. DISTANCE FROM 45° BENDS
- G. UNDISTURBED EARTH
- H. 95% COMPACTED SUBGRADE

BENTONITE SPECIFICATIONS:

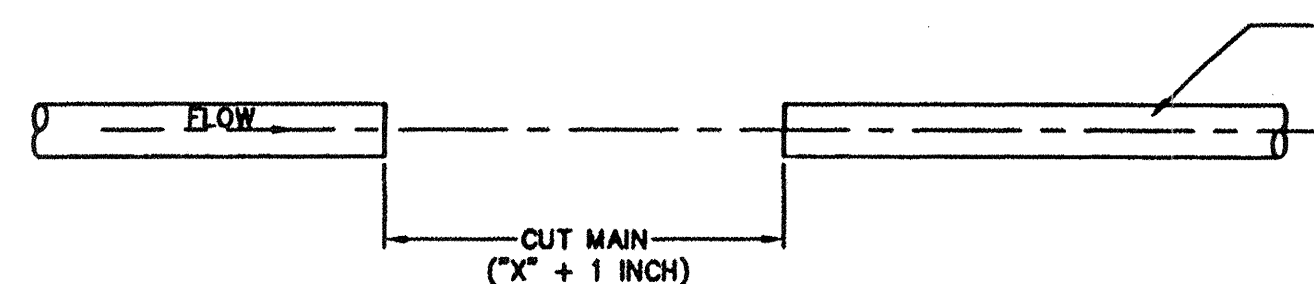
HYDROGEL BENTONITE BY WYO-BEN, INC. OR APPROVED EQUAL	
BARREL YIELD	92
VISCOSITY READING AT 600 R.P.M.	39 +/- 5
WATER LOSS	13.5 +/- 1
% THRU 200 MESH SCREEN	80 +/- 2
WET SCREEN ANALYSIS RESIDUE ON U.S. SIEVE NO. 200	3.0 +/- .5
% MOISTURE	7 +/- 1
pH	9.1 +/- .1
GEL STRENGTH-10 SEC.	18 +/- 2
GEL STRENGTH-10 MIN.	14 +/- 2
PLASTIC VISCOSITY	16 +/- 4
YIELD POINT, LB/200 ft.	

MIX 80 LBS. PER 100 GALLONS OF MAKE-UP WATER.

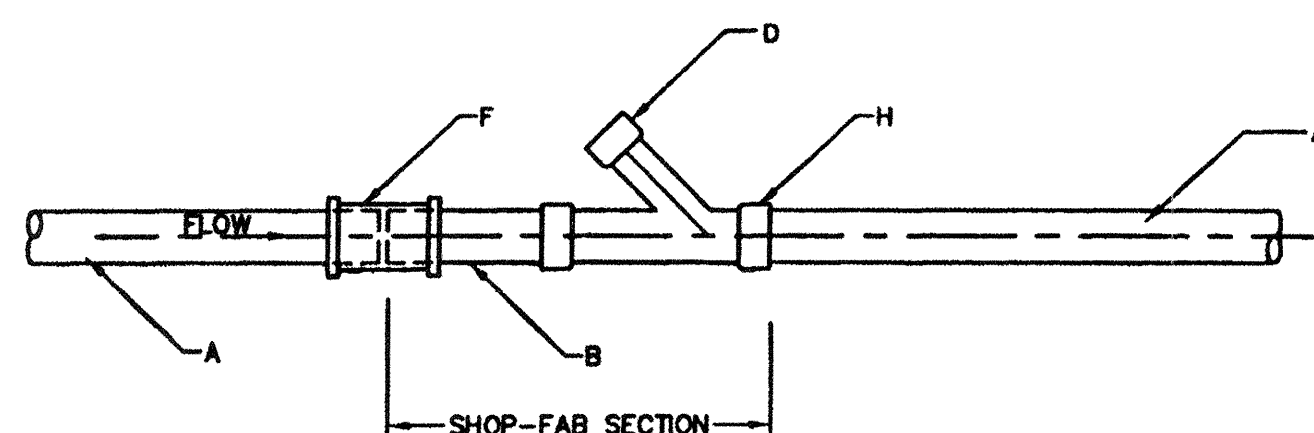
CITY OF ALBUQUERQUE	
REVISIONS	VACUUM SEWER BLOCKING AND SEEPAGE COLLAR DETAIL DWG. 2173
AUG. 1996	
APR. 1997	
DEC. 1993	



SHOP FAB SECTION



PIPE CUT IN FIELD



COMPLETED INSTALLATION IN FIELD

GENERAL NOTES:

1. ALL SOIL COMPACTION FOR INSTALLATION OF SERVICE WYE TO BE 95% OF MAXIMUM DRY DENSITY PER ASTM D 1557.

CONSTRUCTION NOTES:

- A. EXISTING AIR/VACUUM SEWER MAIN
- B. SCHD. 40 PVC PIPE-LENGTH TO BE GREATER THAN COMPRESSION COUPLING
- C. SOLVENT WELD AT SHOP
- D. 3" BRANCH (FOR 3" LATERAL FROM VALVE) SEE C.O.A. STD. DWG. 2163.
- E. SCHD. 40 PVC WYE (P x P x P) SEE C.O.A. STD. DWG. 2163.
- F. COMPRESSION COUPLING AS PER CITY SPEC.
- G. SLIDE COMPRESSION COUPLING ONTO THIS PIECE OF PIPE BEFORE INSERTING IN TRENCH
- H. SOLVENT WELD IN FIELD

CITY OF ALBUQUERQUE	
REVISIONS	SERVICE WYE INSTALLATION ON EXISTING AIR/VACUUM SEWER MAIN DWG. 2174
AUG. 1996	
APR. 1997	
MAR 1995	

AS BUILT INFORMATION	
CONTRACTOR	
DATE	
INSPECTED BY	
DATE	
ACCEPTANCE BY	
DATE	
VERIFICATION BY	
DATE	
DESIGNED BY	
DATE	
DRAWN BY	
DATE	
RECORDED BY	
DATE	
NO.	

BENCH MARKS	
U.S.G.S. BRASS CAP "1L" LOCATED AT THE SOUTHWEST CORNER OF THE SITE AS SHOWN. VERTICAL ELEVATION (NGVD29) 4912.292.	

SURVEY INFORMATION	
FIELD NOTES	
DATE	
BY	
NO.	

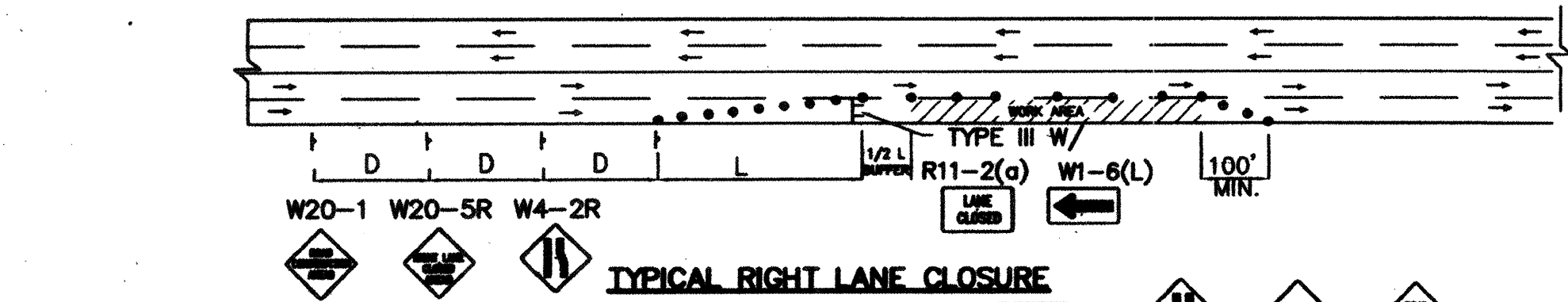
ENGINEER'S SEAL	
LARRY D. READ REGISTERED PROFESSIONAL ENGINEER 10998 5/11/01	

REVISIONS	
NO.	DATE
1	4/2001
2	4/2001
3	4/2001

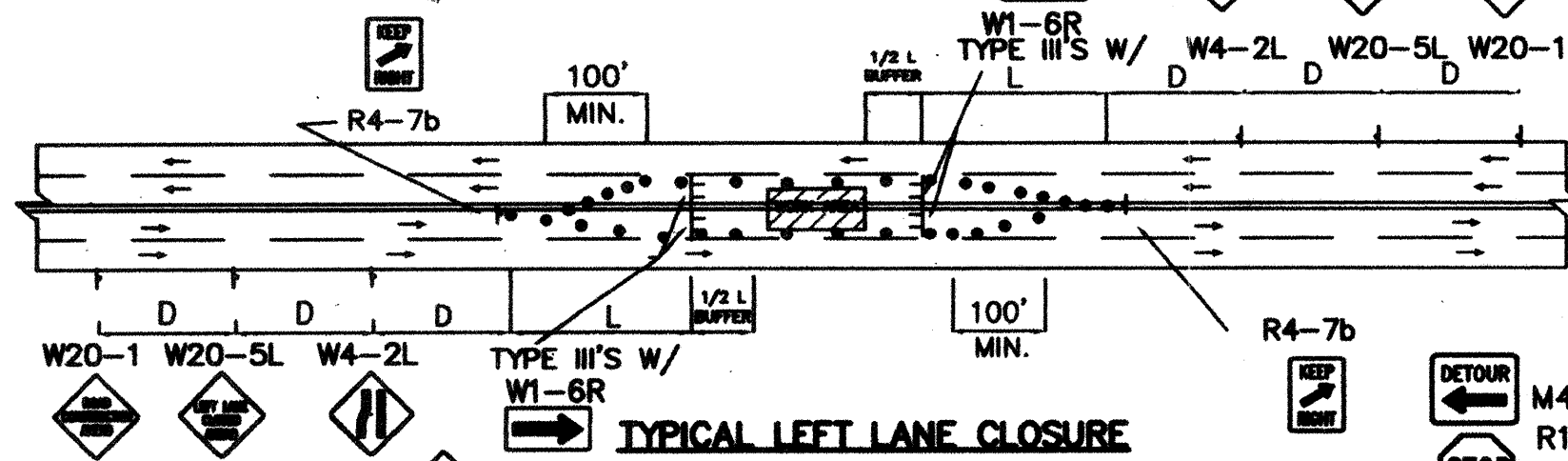
REVISIONS	
DESIGNED	LDR
DRAWN BY	LRA
CHECKED BY	LDR

LARRY READ & ASSOCIATES
Civil Engineers
Box 194 8100-M4 Wyoming Blvd. NE
Albuquerque, New Mexico 87113
(505) 237-8421 Fax (505) 237-8422

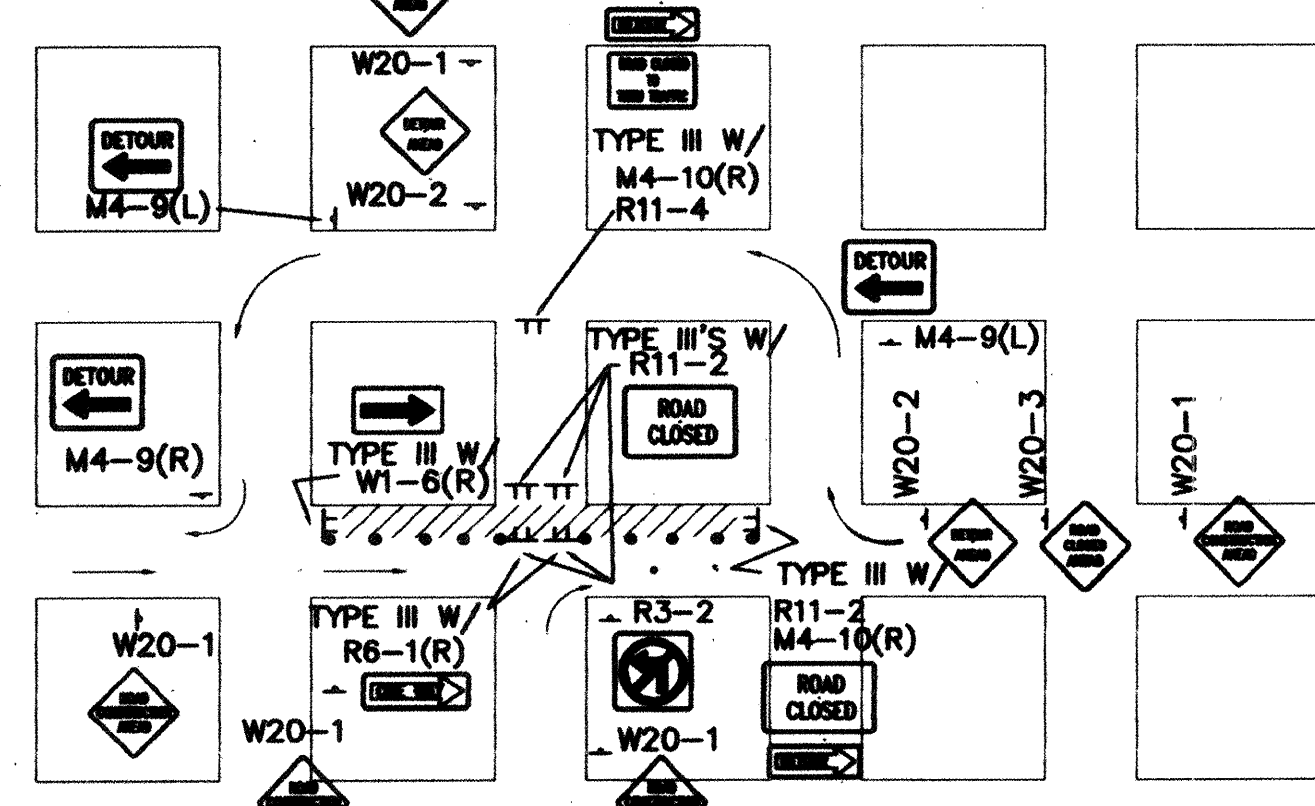
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: ABUELITAS NEW MEXICAN RESTAURANT VACUUM SEWER SERVICE LINE INSTALLATION CITY STANDARD DETAILS	
Design Review Committee	City Engineer Approval
APPROVED JUN 26 2001	APPROVED JUN 12 2001
DESIGN REVIEW COMMITTEE	CITY ENGINEER
City Project No.	6658.81
Zone Map No.	R-11
Sheet	5 of 7



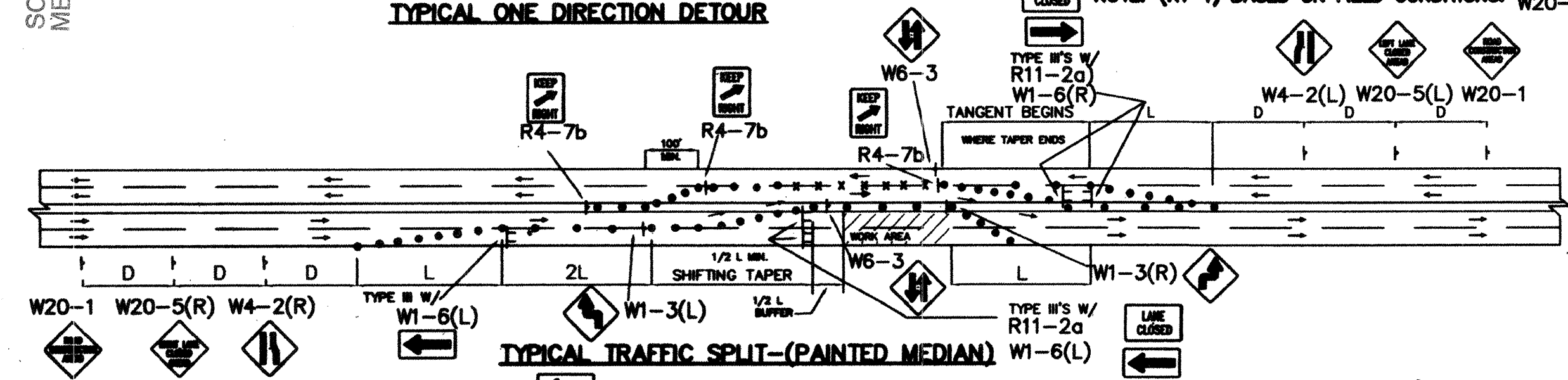
TYPICAL RIGHT LANE CLOSURE



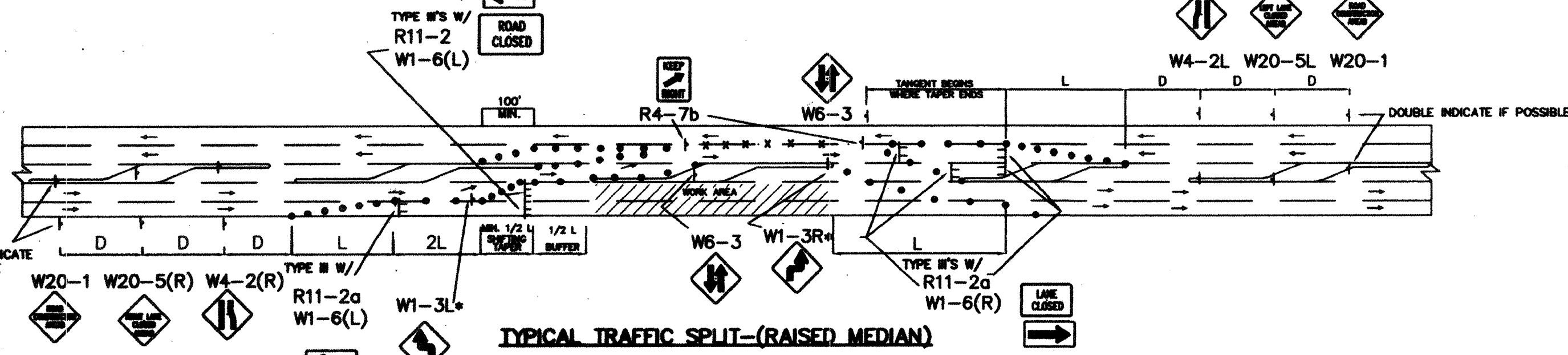
TYPICAL LEFT LANE CLOSURE



TYPICAL ONE DIRECTION DETOUR



TYPICAL TRAFFIC SPLIT-(PAINTED MEDIAN)

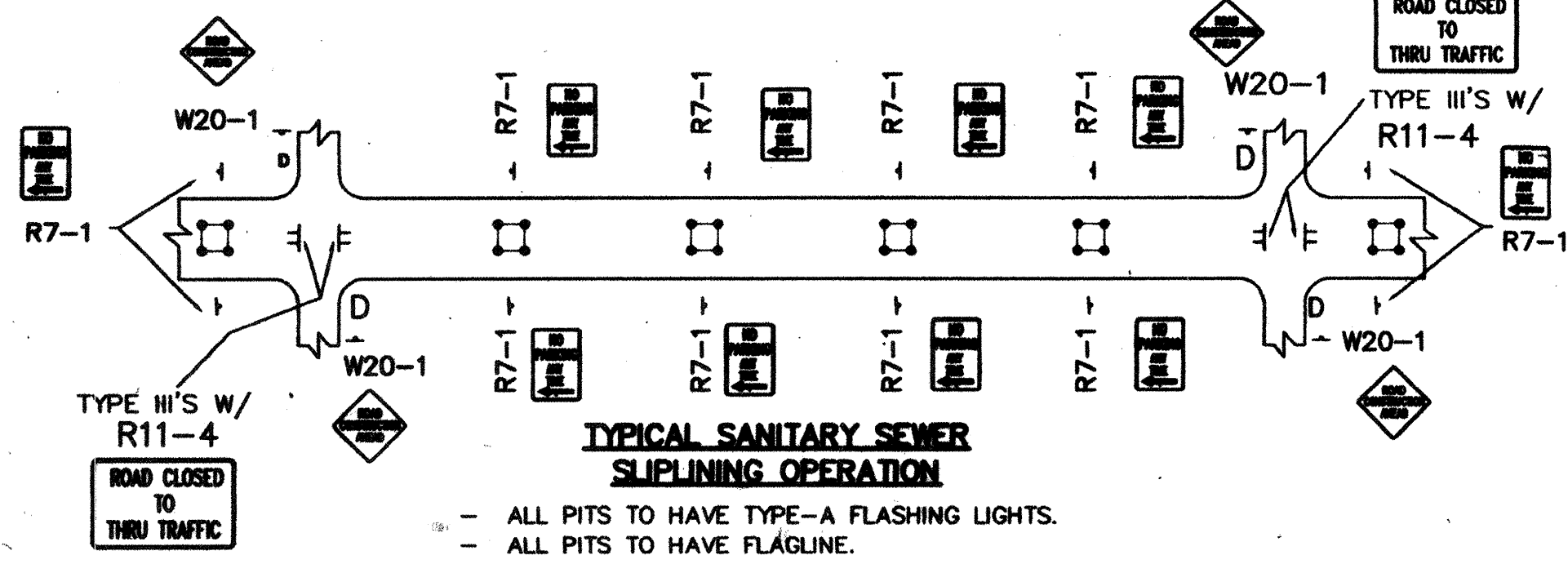


TYPICAL TRAFFIC SPLIT-(RAISED MEDIAN)

- 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 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:

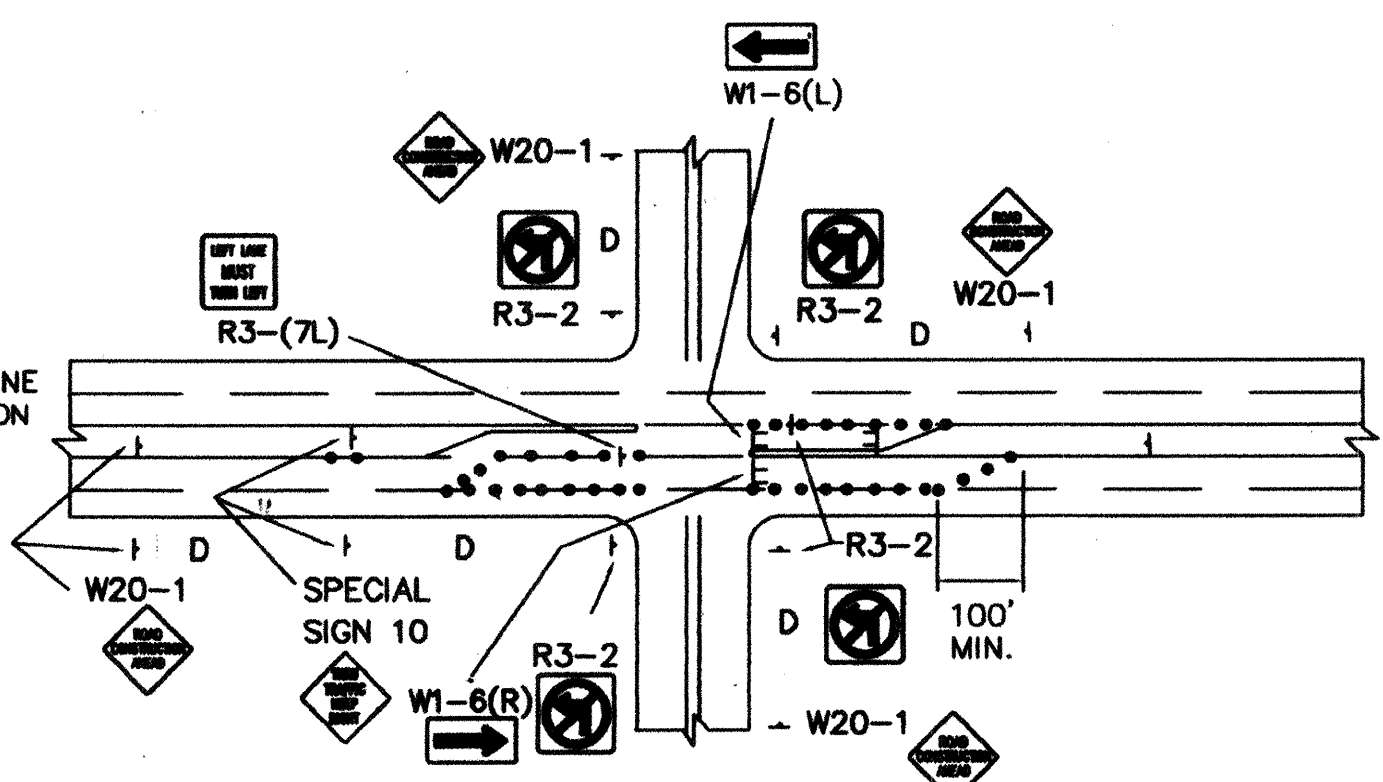
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON AN ORANGE BACKGROUND.
ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF 36" THIRTY SIX INCHES BY 36" THIRTY SIX INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.



TYPICAL SANITARY SEWER SLIPLINING OPERATION

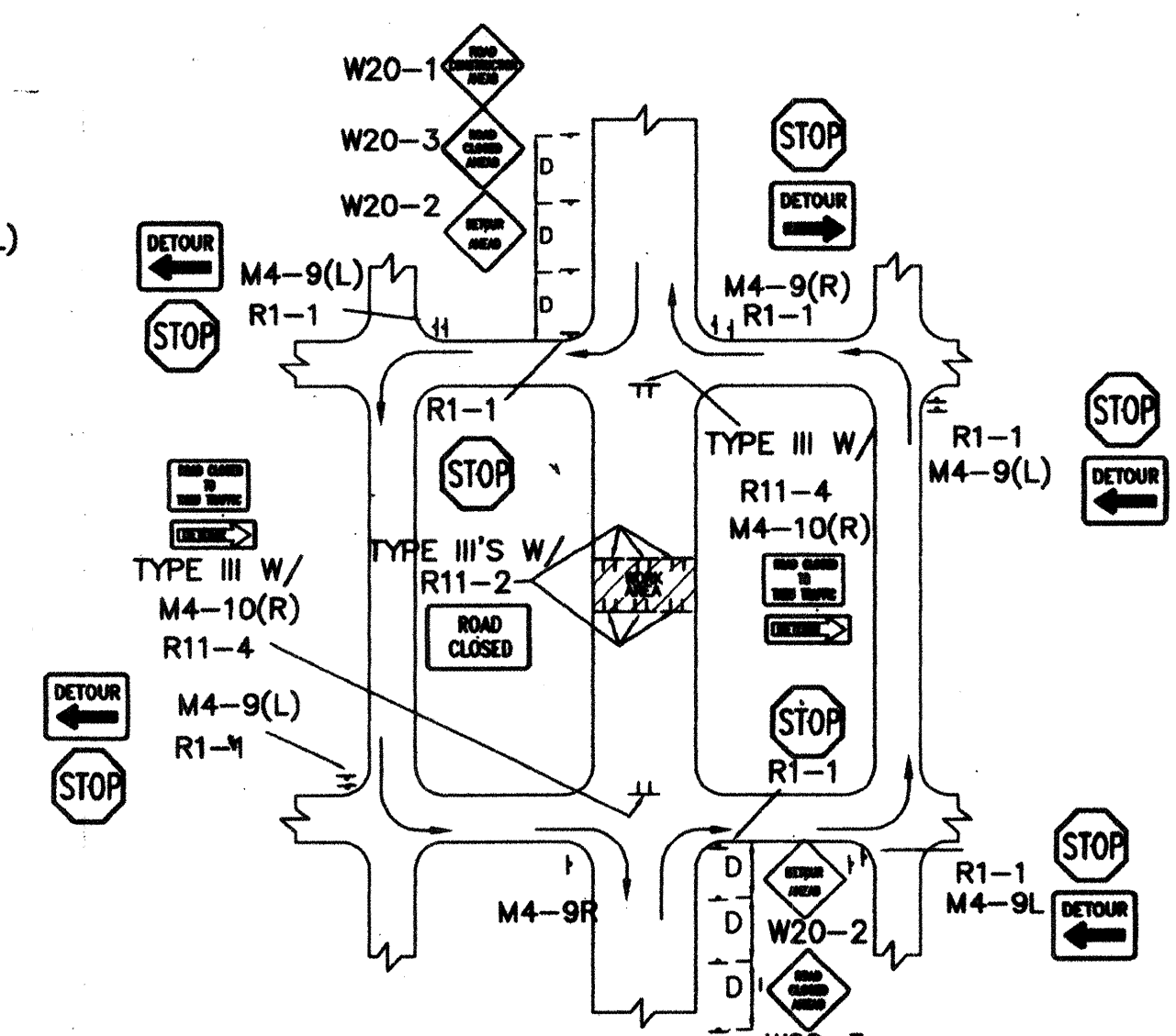
- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS.
- ALL PITS TO HAVE FLAGLINE.

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



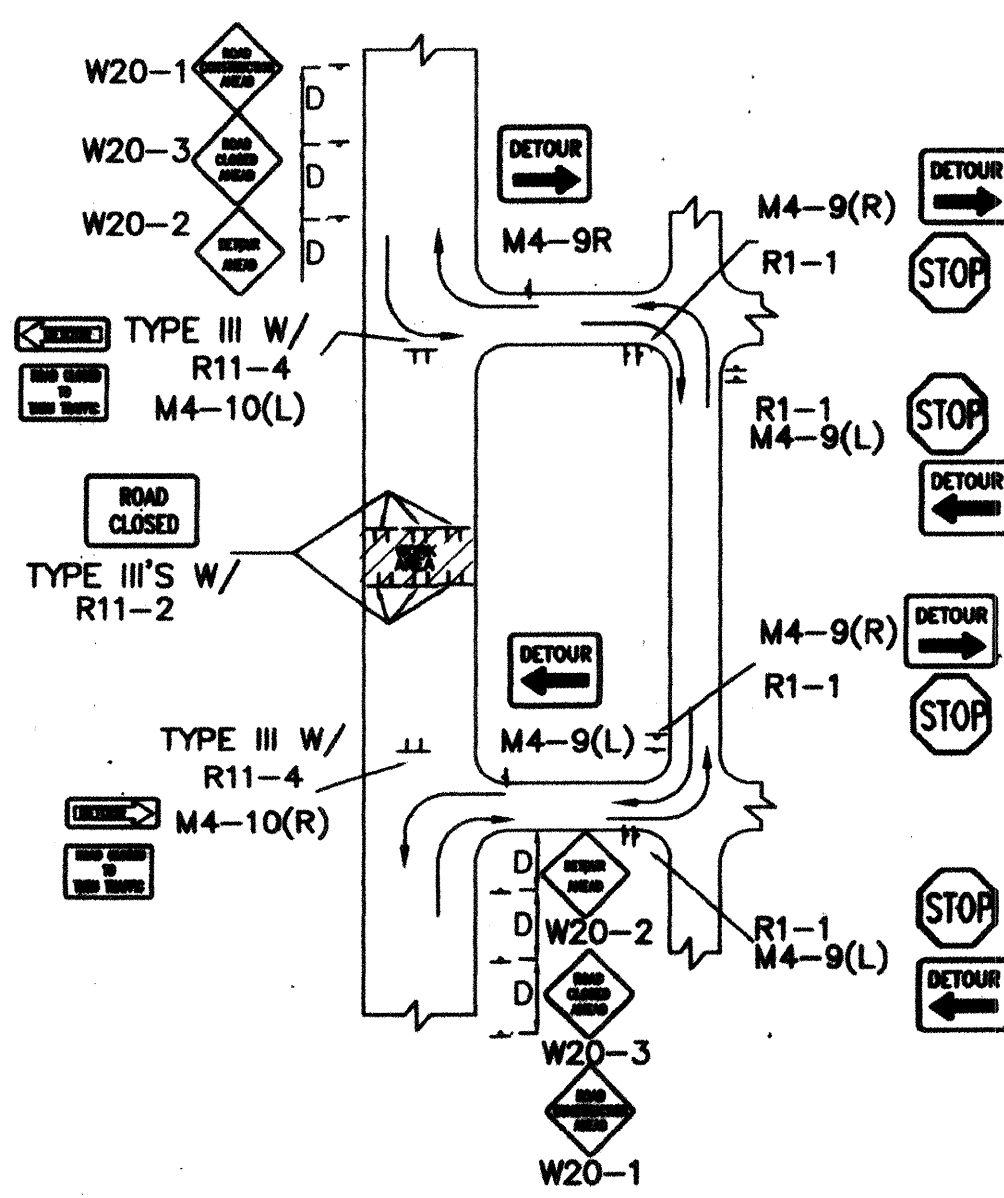
TYPICAL LANE CLOSURE AT INTERSECTION

NOTE: DEPENDING ON WORK ZONE LOCATION



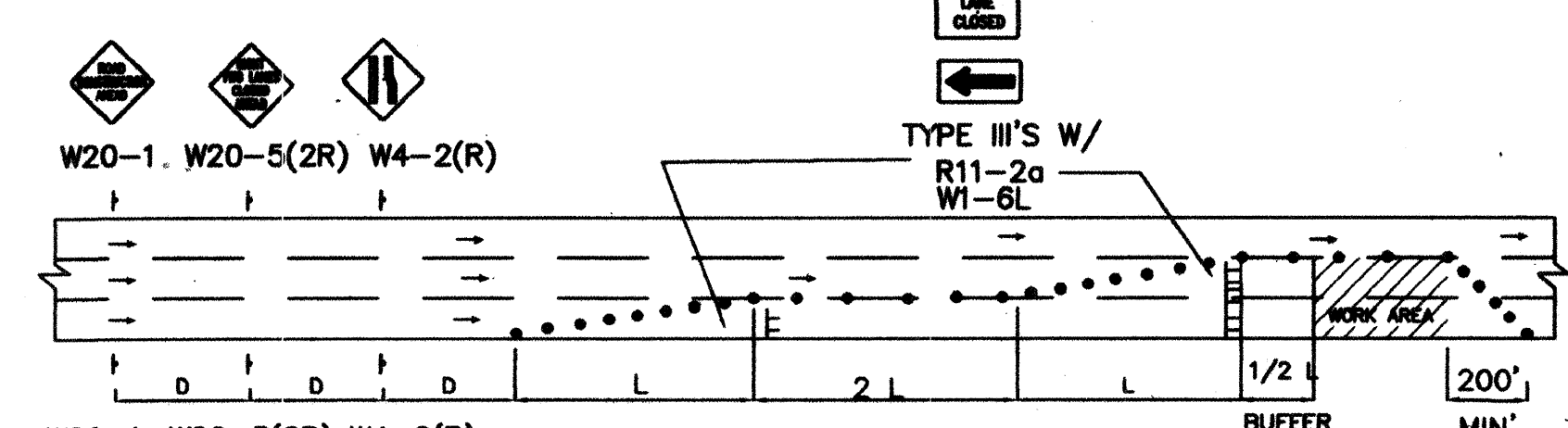
TYPICAL MID-BLOCK CLOSURE

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

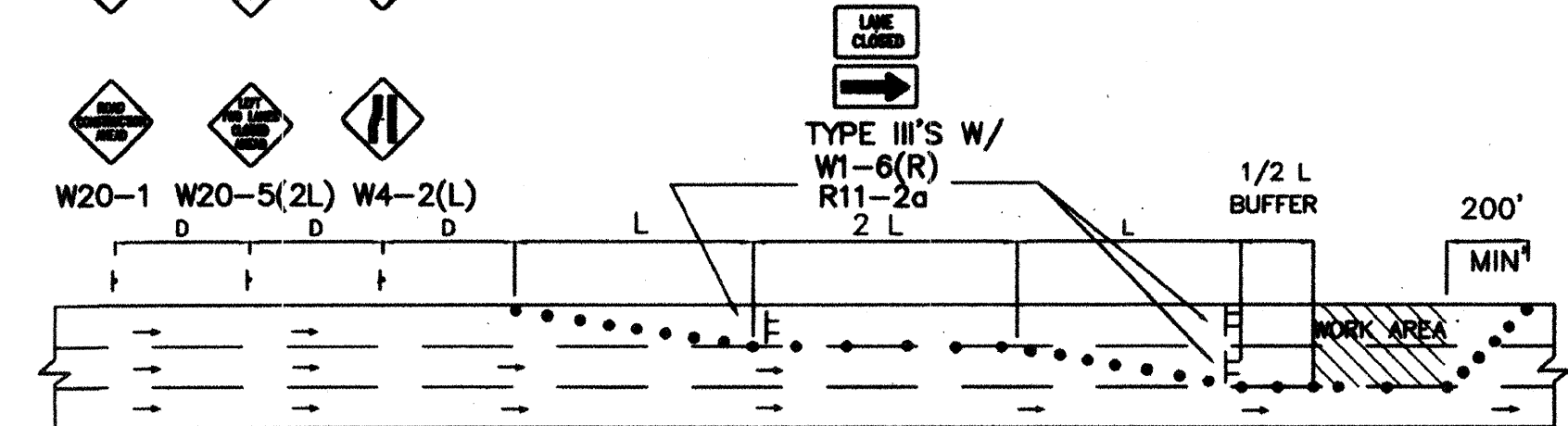


TYPICAL STREET CLOSURE

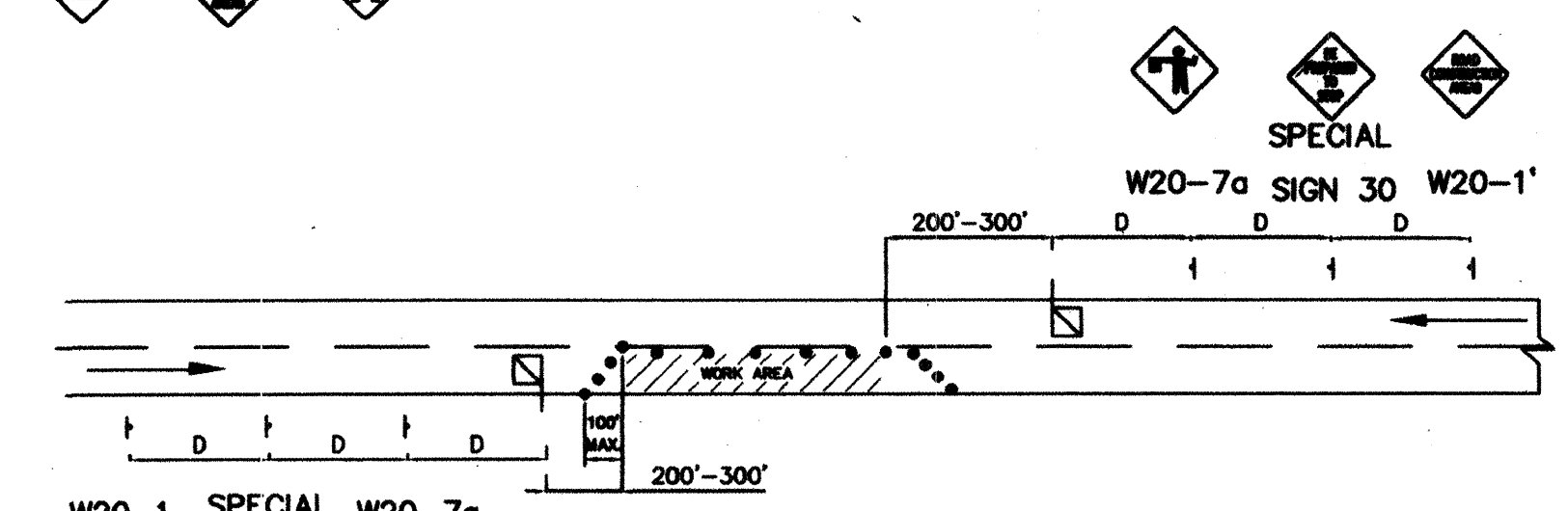
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



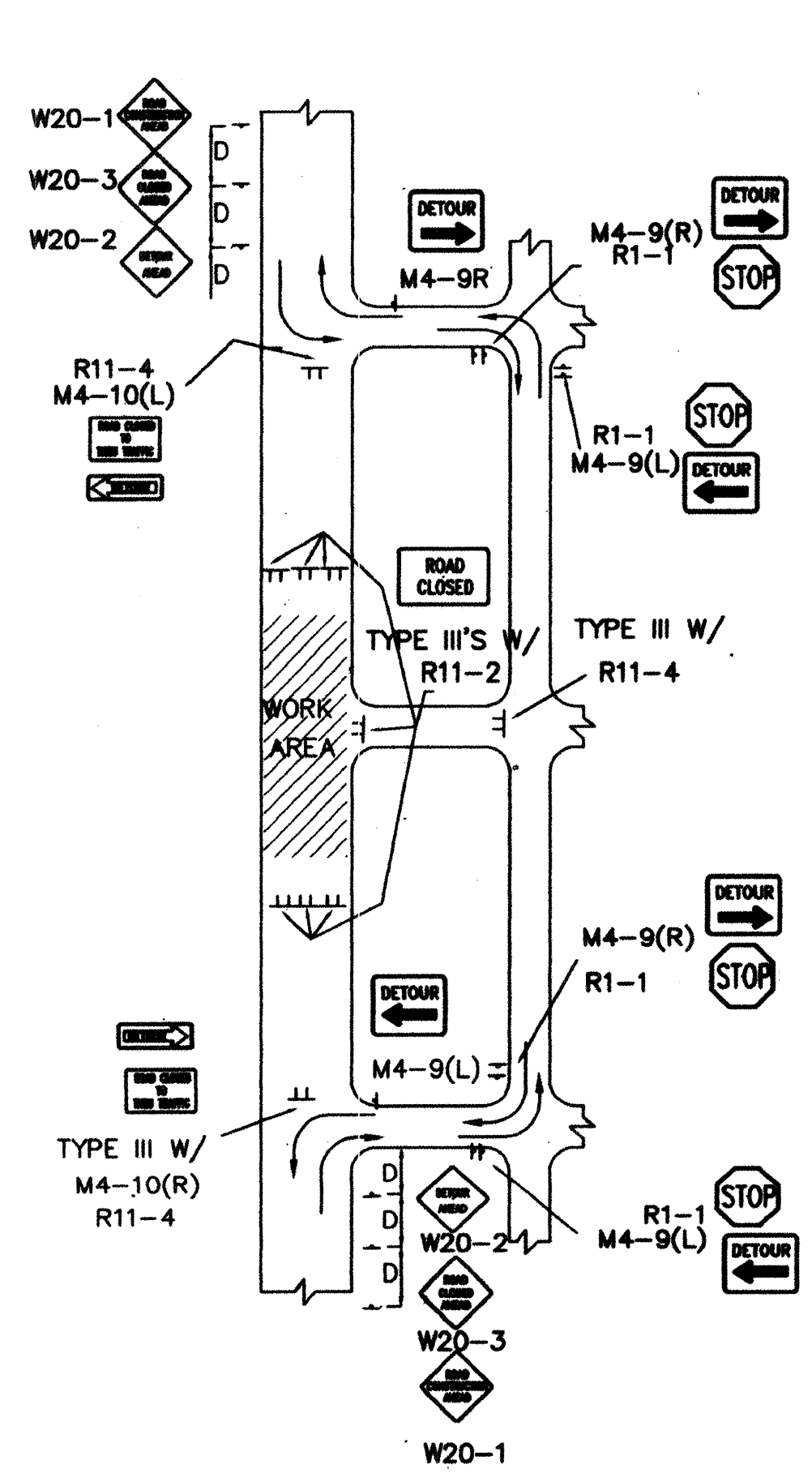
TYPICAL DOUBLE RIGHT LANE CLOSURE



TYPICAL DOUBLE LEFT LANE CLOSURE

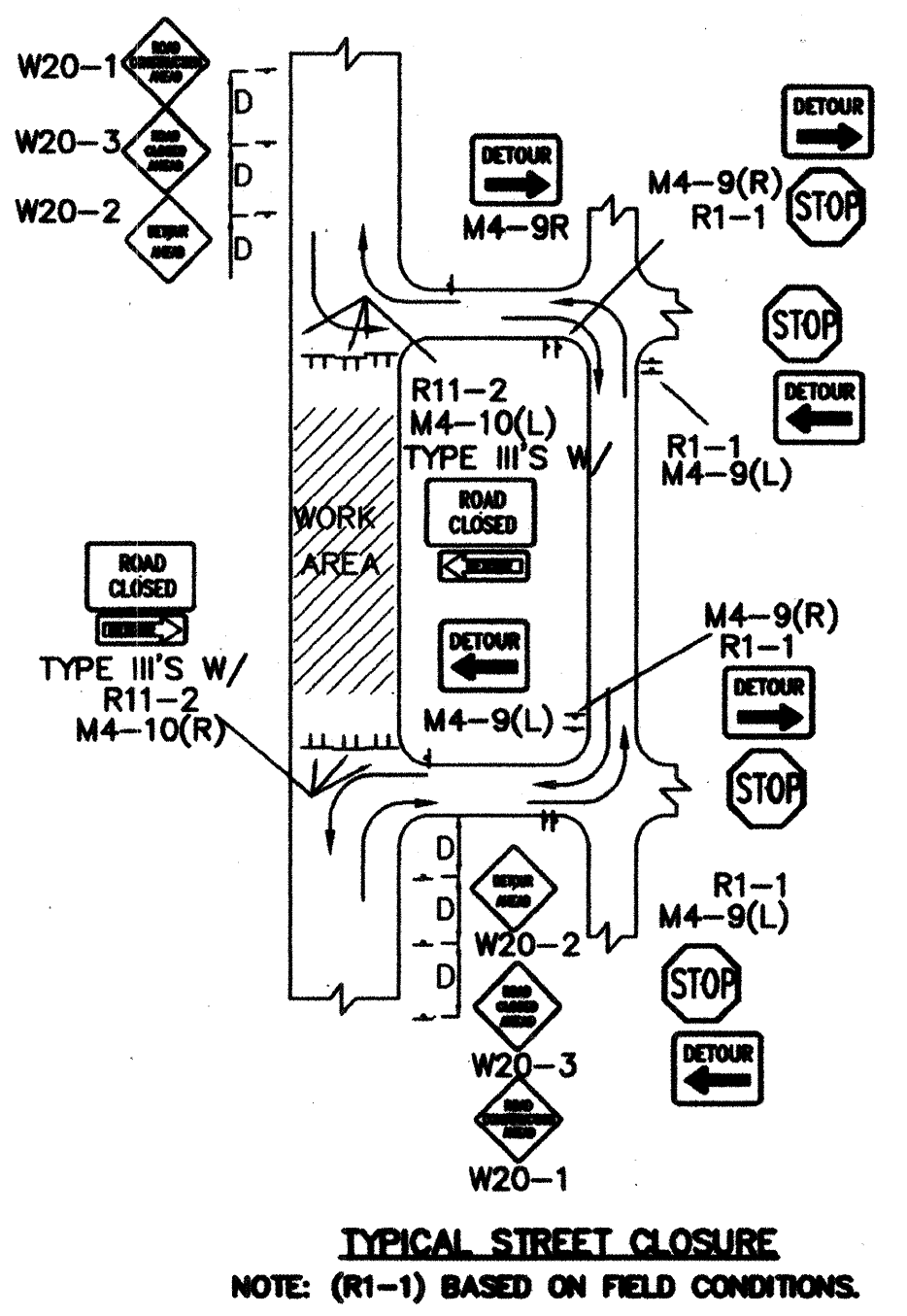


TYPICAL FLAGGING OPERATION



TYPICAL STREET CLOSURE

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



TYPICAL STREET CLOSURE

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

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.
CONTRACTOR		DATE		NO.		DATE	
INSPECTOR'S		DATE		DATE		DATE	
STANDARD BY		DATE		DATE		DATE	
FIELD		DATE		DATE		DATE	
REVISIONS		DATE		DATE		DATE	
CORRECTED BY		DATE		DATE		DATE	
MICRO-FILM INFORMATION		DATE		DATE		DATE	
RECORDED BY		DATE		DATE		DATE	
NO.		DATE		DATE		DATE	

C.O.A. STD.

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.)			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
C.O.A.	STD.		
PROJECT NO. 6658.81	MAP NO. R-11	SHEET 6 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 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.

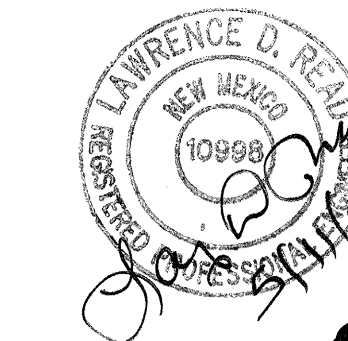
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO ITS PLACEMENT AND MAINTENANCE.

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

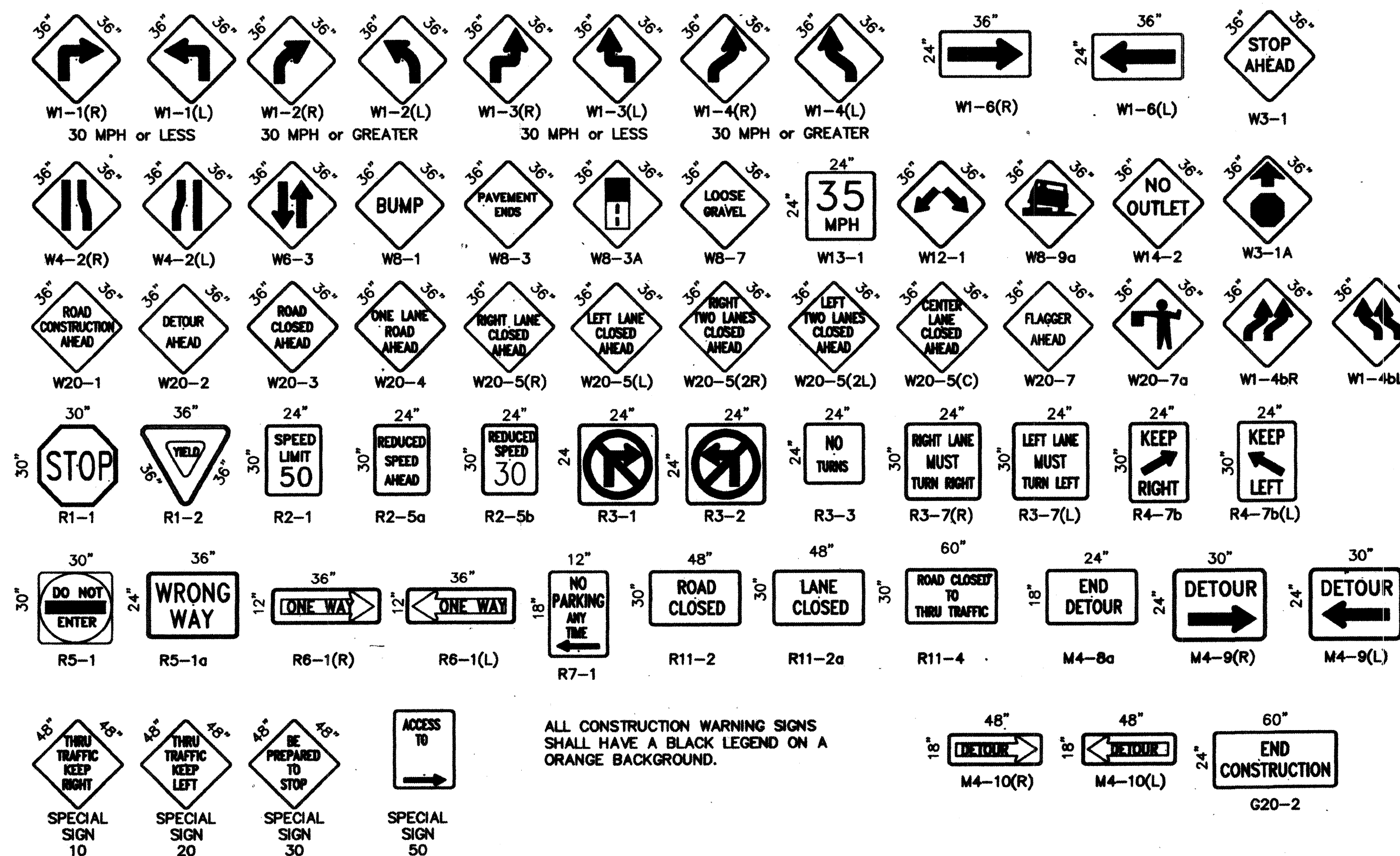
26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.

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

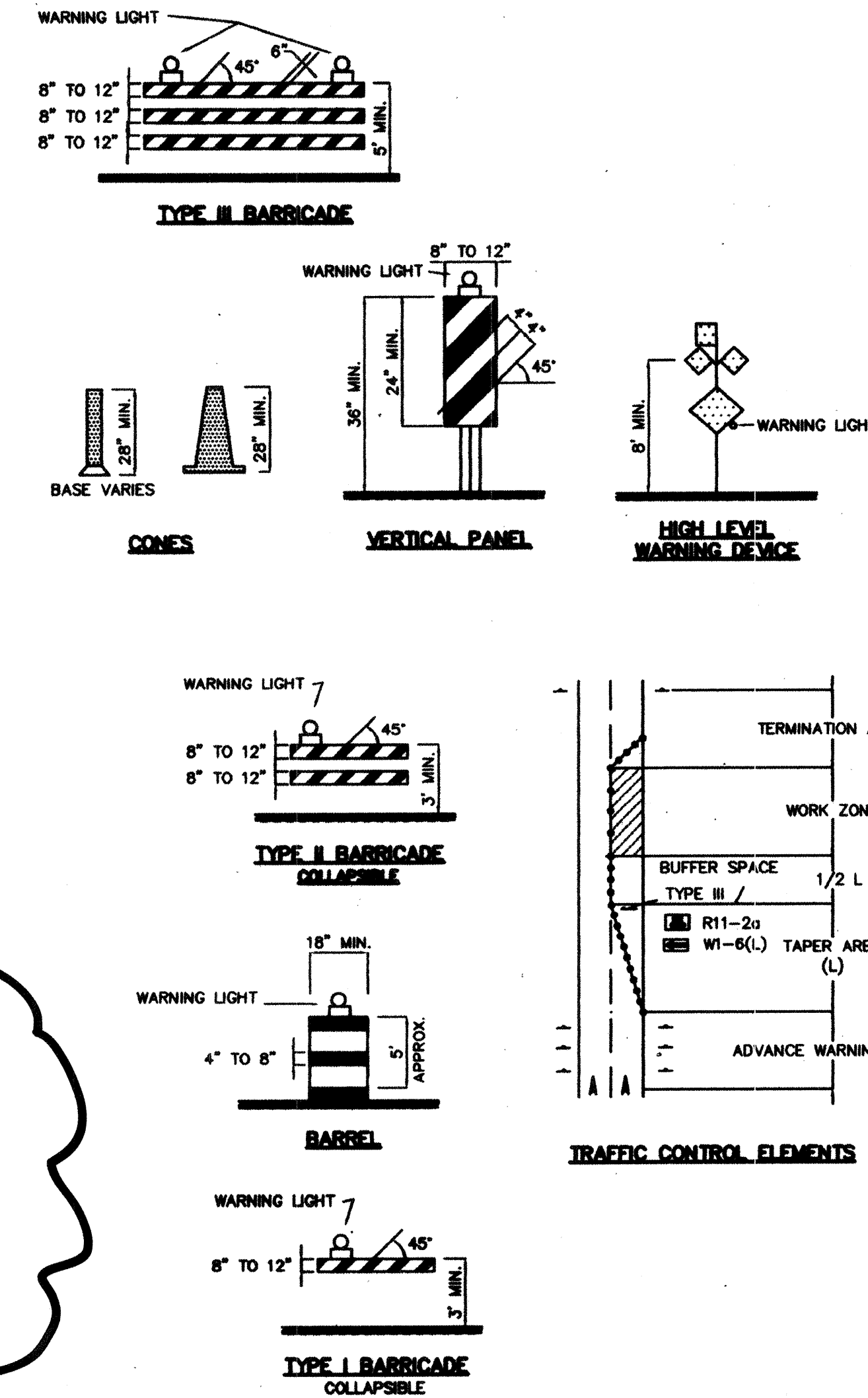
28. CONTRACTOR SHALL OBTAIN THE PROPER BARRICADE AND EXCAVATION PERMITS FROM THE BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT PRIOR TO WORKING IN ISLETA BLVD.



SIGN FACE DETAILS



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



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

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST UPDATE	
C.O.A.	STD.	NO. DAY/YR. NO. DAY/YR.	
PROJECT NO.	6658.81	MAP NO.	R-11
SHEET 7 OF 7			