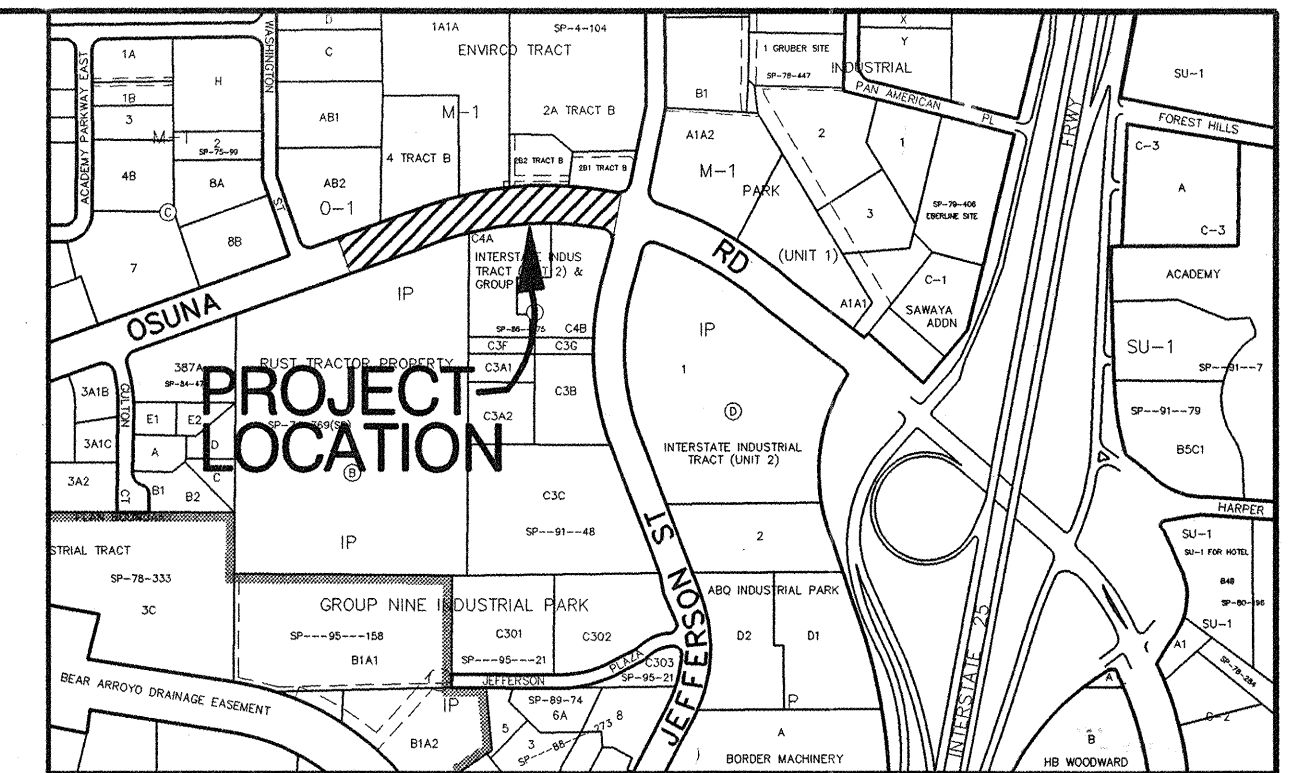


CONSTRUCTION PLANS FOR OSUNA IMPROVEMENTS WEST OF JEFFERSON ALBUQUERQUE, NEW MEXICO INDEX

SHEET No.	DESCRIPTION
1	COVER SHEET
2	OVERALL PAVING PLAN
3	DEMOLITION PLANS OSUNA ROAD STATION 1+00 TO 9+50
4	PAVING PLAN & PROFILE OSUNA ROAD STATION 1+00 TO 5+50
5	OSUNA ROAD STATION 5+50.00 TO 10+00.00
6	TRAFFIC CONTROL PLAN OSUNA ROAD STATION 1+00 TO 21+00
7	SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS
8	TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF MUTCD)
9	PERMENANT STRIPING & SIGNAGE PLAN OSUNA ROAD STATION 1+00 TO 17+50

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR CONSTRUCTION OBSERVER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
3. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
4. A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE CONSTRUCTION OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
5. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.
6. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY COSTS INCURRED FOR REPAIRS SHALL BE THE COST OF THE CONTRACTOR.
7. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF WAY.
8. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E. BARRICADING, SURFACE DISTURBANCE).
9. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE AT HIS EXPENSE ANY AND ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
10. ALL PERMANENT PAVEMENT MARKING AND TRAFFIC SIGNING SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR PER PLAN.
11. THE CONTRACTOR SHALL FOLLOW THE CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN PROVIDED HEREIN. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
12. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
13. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.
14. ALL SAWCUT PAVEMENT SHALL HAVE A UNIFORM EDGE AND BE SPRAYED WITH TACK.
15. WHEN ABUTTING NEW CURB AND GUTTER TO EXISTING PAVEMENT, A 1' WIDE SECTION OF EXISTING PAVEMENT ADJACENT TO THE CURB AND GUTTER SHALL BE SAWCUT, REMOVED, AND REPLACED AS PER THE STANDARD SPECIFICATIONS.
16. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB & GUTTER, DRIVE PADS, WHEELCHAIR RAMPS, AND SIDEWALK DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE PER COA STANDARDS, AT HIS OWN EXPENSE.



VICINITY MAP
ZONE ATLAS MAP No. E-17-Z

NOTICE TO CONTRACTORS

1. 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 AND SHALL INCLUDE UPDATE No.6
2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
3. 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 OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
4. FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
5. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED W/ PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
6. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS. ANY PERMANENT SURVEY MONUMENT LOCATED WITHIN 50' OF THE PROJECT LIMITS NOT SHOWN ON THE PLANS THAT IS DESTROYED DURING CONSTRUCTION WILL BE REPLACED AT DESIGNER'S EXPENSE.
7. ANY WORK WITHIN AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR HOUR CONSTRUCTION. SEE MORE DETAILED NOTES ON SHEET 7.
8. CONTRACTOR SHALL MAINTAIN A GRAFFITI - FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

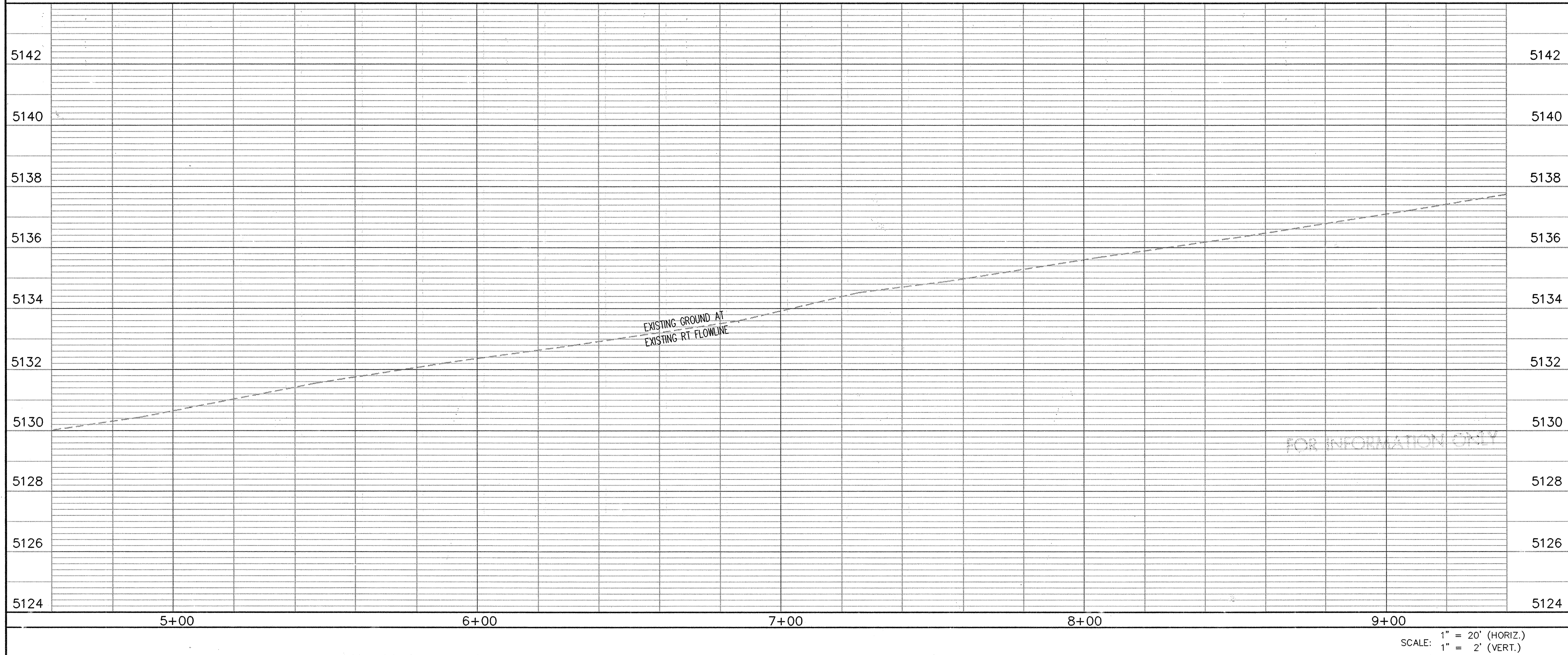
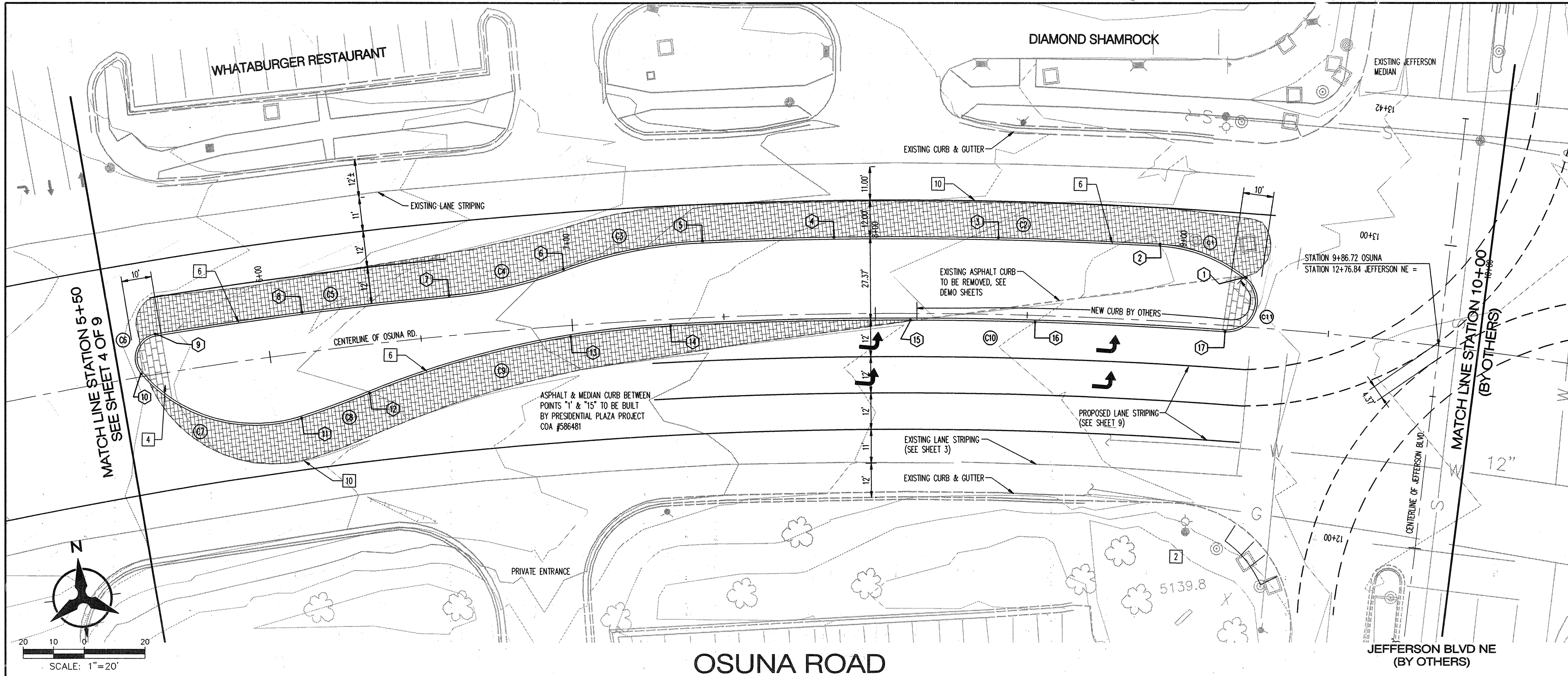
THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☒ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- ☒ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☐ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☐ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- ☒ THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

FOR INFORMATION ONLY

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS	ENGINEER	DATE	*****		
		DRC Chairman	Billy J. Gable	2-18-99	APPROVED FOR CONSTRUCTION		
		Transportation	R. J. Kane	1-08-99			
		Water/Wastewater	N/A	2-12-99			
		Hydrology	N/A				
		Parks	N/A		City Engineer		
		Const. Coord.	N/A	1-8-99	Date		
		NMSHTD	N/A				
DRB Case No.		City Project No.		Sheet			
97-521		608791		1 of 9			

Bohannon & Huston
County Road One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS



- 1 KEYED GENERAL NOTES**
- 1. INSTALL CONCRETE VALLEY GUTTER AS PER COA STD. DWG. 2426
 - 2. INSTALL WHEELCHAIR RAMP AS PER STD. DWG. 2441, CASE 1 WITH ALTERNATE SECTION AA
 - 3. STANDARD CURB & GUTTER AS PER COA STD. DWG. 2415
 - 4. MEDIAN CURB & GUTTER AS PER COA STD. DWG. 2415
 - 5. FUTURE 6' SIDEWALK
 - 6. ASPHALT CURB AS PER COA STD. DWG. 2415
 - 7. EXISTING STRIPE TO REMAIN
 - 8. INSTALL 4" VALLEY GUTTER AS PER COA STD. DWG. 2424
 - 9. MATCH NEW VALLEY GUTTER TO EXISTING ROADWAY GRADE
 - 10. MATCH NEW PAVEMENT TO EXISTING PAVEMENT GRADE
- NOTE:**
FLOWLINE ELEVATIONS GIVEN IN THE TABLE BELOW ARE APPROXIMATE. THE CROSS-SLOPE OF THE NEW PAVEMENT SHALL MATCH EXISTING CROSS-SLOPE, AND NEW PAVEMENT SHALL TIE SMOOTHLY TO THE EXISTING IN ALL LOCATIONS.

LEGEND

- NEW ASPHALT PAVING
- CONCRETE VALLEY GUTTER
- CROWN FLATTENING
- COLORED TEXTURED PCC MEDIAN PAVING (THIS PROJECT)

1 POINTS DATA

PT#	STATION	OFFSET	FL ELEVATION
1	9+21.32	16.11' LT.	37.12
2	8+92.50	25.19' LT.	36.11
3	8+39.83	25.19' LT.	36.11
4	7+86.55	25.19' LT.	35.24
5	7+44.00	25.19' LT.	34.50
6	6+98.37	18.61' LT.	33.67
7	6+60.67	13.19' LT.	33.26
8	6+12.36	13.19' LT.	32.47
9	5+64.05	13.19' LT.	32.03
10	5+57.28	0.96' LT.	32.02
11	6+07.64	21.34' RT.	33.58
12	6+31.21	16.02' RT.	34.00
13	6+99.17	3.69' RT.	34.89
14	7+32.35	2.21' RT.	35.48
15	8+11.58	2.18' RT.	36.30±
16	8+52.69	2.16' RT.	37.08±
17	9+15.69	2.12' RT.	37.80±

1 CURVE DATA

CURVE	RADIUS	LENGTH	TAN	CH	CH BRG	DELTA
C1	50.00'	31.09'	16.07'	30.59'	S62°10'05"E	35°37'34"
C2	1520.14'	174.57'	87.38'	174.47'	N82°22'58"W	06°34'47"
C3	150.00'	46.95'	23.67'	46.76'	S85°21'39"W	17°55'59"
C4	150.00'	38.59'	19.40'	38.48'	N83°45'51"E	14°44'22"
C5	1508.14'	97.48'	48.75'	97.46'	S89°16'56"W	03°42'12"
C6	8.00'	17.04'	14.45'	14.00'	S26°23'50"W	122°04'01"
C7	50.00'	57.96'	32.73'	54.77'	S67°50'32"E	66°24'43"
C8	300.00'	23.88'	11.94'	23.87'	N76°40'18"E	04°33'36"
C9	300.00'	101.94'	51.47'	101.45'	S84°07'35"W	19°28'09"
C10	1497.00'	183.07'	91.65'	182.95'	N82°38'08"W	07°00'24"
C11	10.00'	25.35'	31.93'	19.09'	S28°15'23"W	145°13'21"

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ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP
OSUNA IMPROVEMENTS WEST OF JEFFERSON
PAVING PLAN & PROFILE
OSUNA ROAD STATION 5+00.00 TO 10+00.00

Design Review Committee City Engineer Approval
FEB 18 1999
REVIEW COMMITTEE

City Project No. 608791
Zone Map No. E-17-Z
Sheet 5 of 9

AS-BUILT INFORMATION

CONTRACTOR	DATE

BENCH MARKS

NMHC BRASS TABLE STAMPED	"1-25-16, 1989"
GEOGRAPHIC POSITION (NAD 1927)	
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)	
X = 398,964.46 Y = 1,511,266.74	
GROUND-TO-GRID FACTOR = 0.99986308	
ΔX = -00' 11" 41"	
ELEVATION = 5195.7	

SURVEY INFORMATION

FIELD NOTES	DATE

ENGINEER'S SEAL

JAMES R. TOPMILLER
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
9354
1-5-99

REVISIONS

No.	Date	REMARKS

Designed By: CG
Drawn By: RB
DATE: 1/99
DATE: 1/99

CALVARY CHURCH

WHATABURGER
ENTRANCE

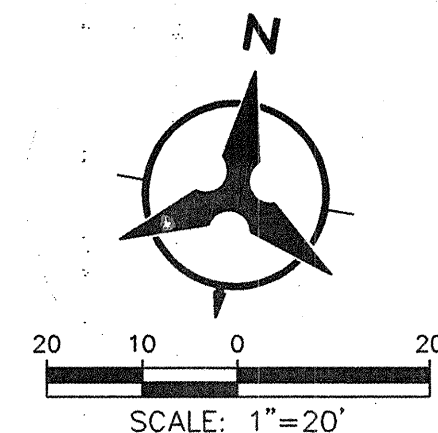
EXISTING CURB & GUTTER

EXISTING ASPHALT CURB

CENTERLINE OF OSUNA RD.

EXISTING PRIVATE
ENTRANCE

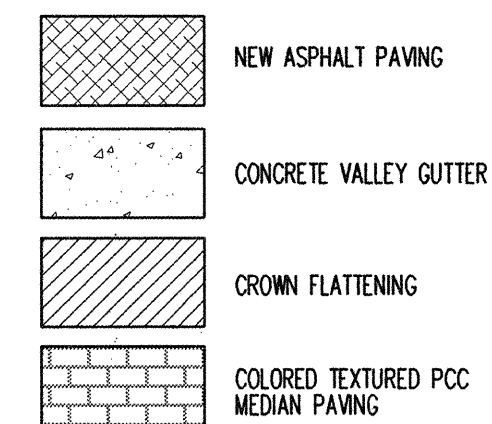
OSUNA ROAD



1 KEYED GENERAL NOTES

1. INSTALL CONCRETE VALLEY GUTTER AS PER COA STD. DWG. 2420.
2. INSTALL WHEELCHAIR RAMP AS PER STD. DWG. 2441, CASE II WITH ALTERNATE SECTION AA.
3. STANDARD CURB & GUTTER AS PER COA STD. DWG. 2415.
4. MEDIAN CURB & GUTTER AS PER COA STD. DWG. 2415.
5. FUTURE 6' SIDEWALK.
6. ASPHALT CURB AS PER COA STD. DWG. 2415.
7. EXISTING STRIPE TO REMAIN.
8. INSTALL 4' VALLEY GUTTER AS PER COA STD. DWG. 2421.
9. MATCH NEW VALLEY GUTTER TO EXISTING ROADWAY GRADE.
10. MATCH NEW PAVEMENT TO EXISTING PAVEMENT GRADE.

LEGEND



POINTS DATA

PT#	STATION	OFFSET	FL ELEVATION
1	2+63.86	25.19' LT.	26.80
2	3+03.20	25.19' LT.	27.37
3	3+42.53	25.19' LT.	28.06
4	3+81.87	25.19' LT.	28.76
5	4+16.13	25.19' LT.	29.40
6	4+22.10	7.20' LT.	30.15

CURVE DATA

CURVE	RADIUS	LENGTH	TAN	CH	CH BRG.	DELTA
C1	1520.14'	154.83'	77.48'	154.77'	S78°50'36"W	05°50'09"
C2	10.00'	24.98'	30.00'	18.97'	N26°40'34"W	143°07'30"

NOTE:

FLOWLINE ELEVATIONS GIVEN IN THE TABLE ABOVE ARE APPROXIMATE. THE CROSS-SLOPE OF THE NEW PAVEMENT SHALL MATCH EXISTING CROSS-SLOPE, AND NEW PAVEMENT SHALL TIE SMOOTHLY TO THE EXISTING IN ALL LOCATIONS.

FOR INFORMATION ONLY

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Courtyard One 7500 JEFFERSON NE ALBUQUERQUE NEW MEXICO 87109

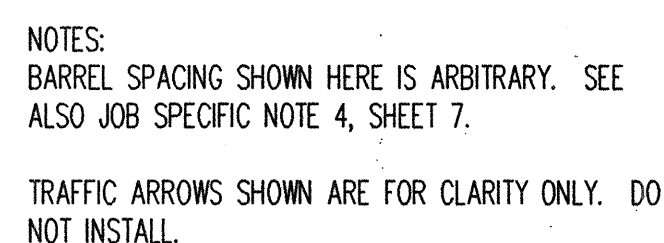
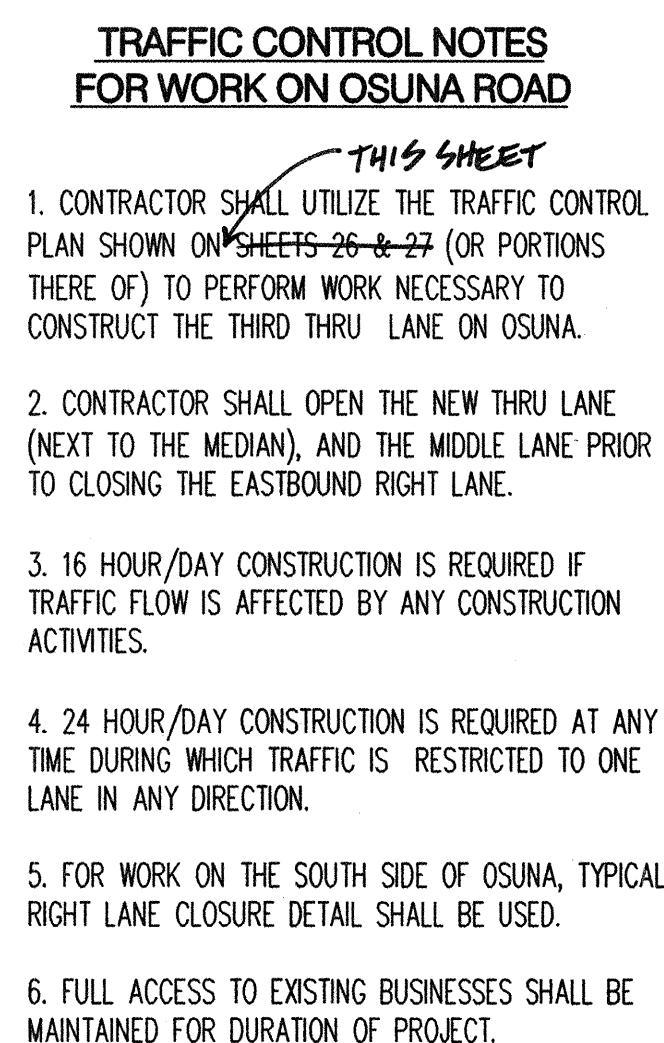
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

OSUNA IMPROVEMENTS WEST OF JEFFERSON
PAVING PLAN & PROFILE
OSUNA ROAD STATION 1+00 TO 5+50

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED FEB 18 1999 DESIGN REVIEW COMMITTEE			

City Project No.	Zone Map No.	Sheet	Of
608791	E-17-Z	4	9



SURVEY INFORMATION			BENCH MARKS		AS-BUILT INFORMATION	
NO.	BY	DATE	FIELD NOTES	CONTRACTOR	WORK STARTED BY	DATE
			NKWSH BRASS TABLET STAMPED "1-25-16, 1969"			
			GEOGRAPHIC POSITION (NAD 1927)		ACCEPTED BY	DATE
			N.M. STATE PLANE COORDINATES (CENTRAL ZONE)		FIELD LOCATION BY	DATE
			X = 398,964.46 Y = 1,511,266.74		DRAWINGS CORRECTED BY	DATE
			GROUND-TO-GRID FACTOR = 0.99966308			
			$\Delta \alpha = -00^{\circ} 11' 41''$		MICRO-FILM INFORMATION	
			ELEVATION = 5195.7		RECORDED BY	DATE
					NO.	

[illegible]

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 Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

OSUNA IMPROVEMENTS WEST OF JEFFERSON

TRAFFIC CONTROL PLAN
OSUNA ROAD STATION 1+00 TO 21+00

Design Review Committee	City Engineer Approval	Date	Mo./Day/Yr.	Mo./Day/Yr.
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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	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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DESIGN REVIEW COMMITTEE		Lost		
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City Project No.	Zone Map No.	Sheet	Of
608791	E-17-7	6	

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Date: January, 1999

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 SEPERATE 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 CLOSURES 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:
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.

NOTES SPECIFIC TO THIS PROJECT

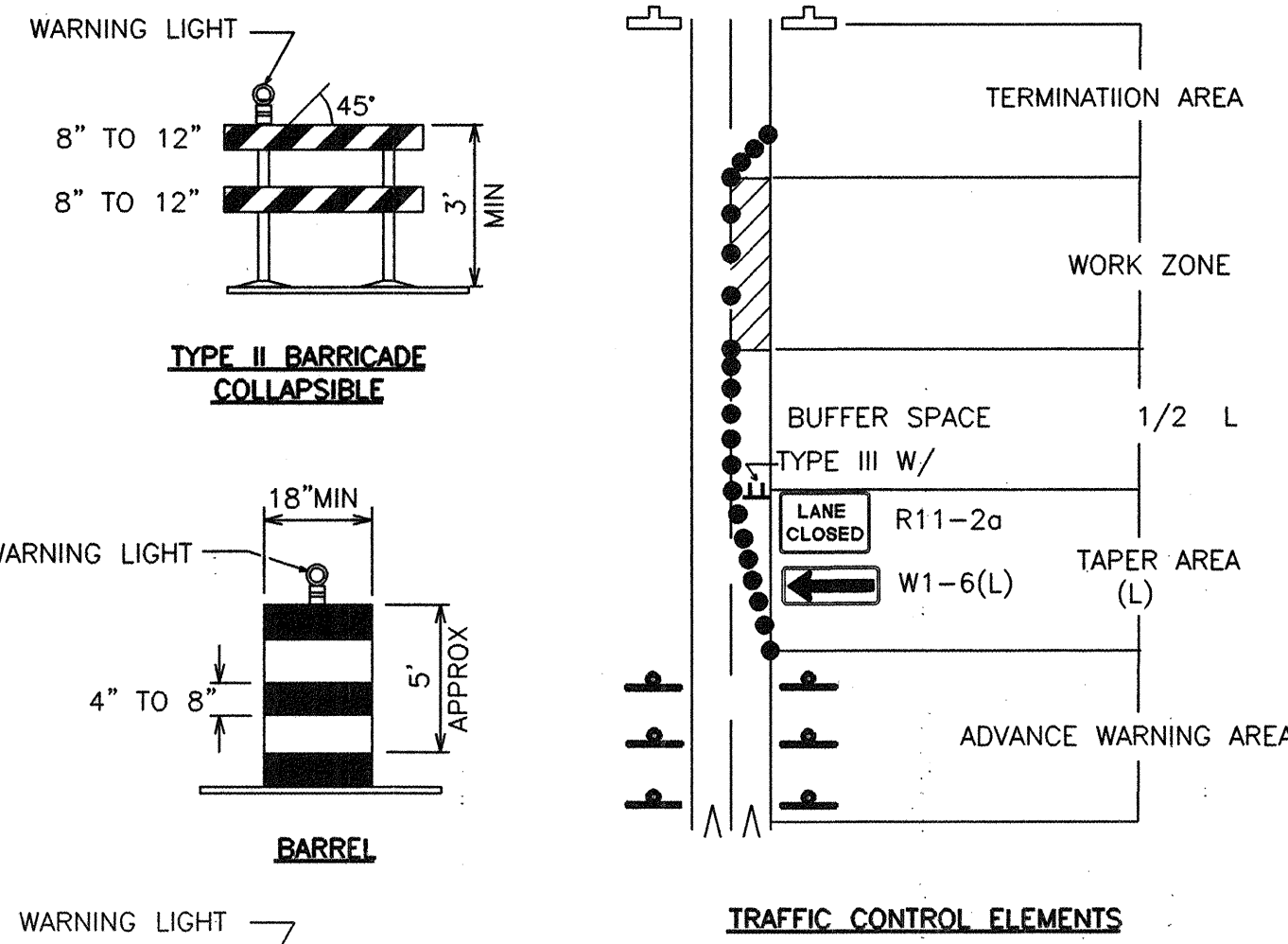
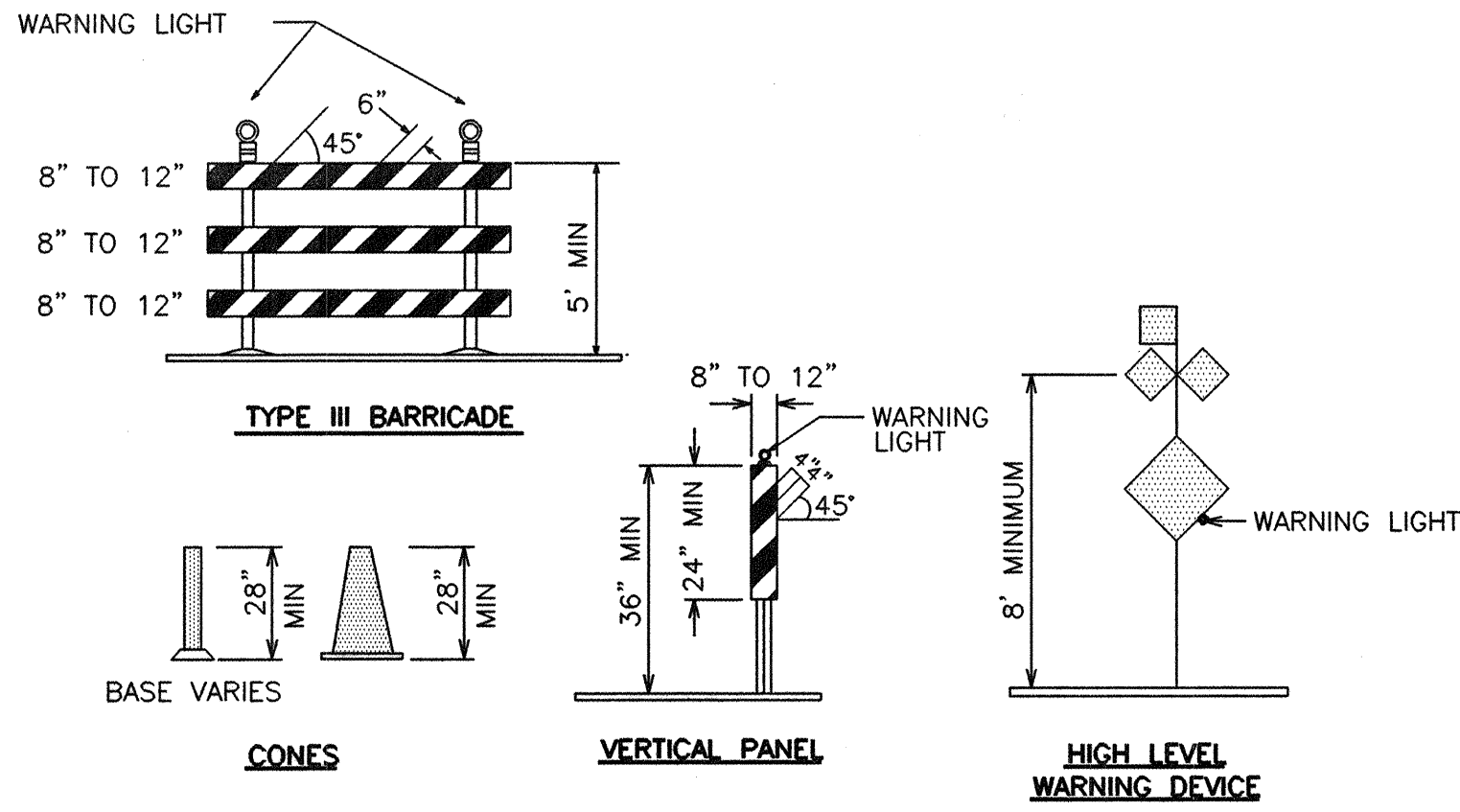
1. ARTERIAL/COLLECTOR LANE USAGE BARRICADE PERMIT FEES WILL APPLY FOR THIS PROJECT. FEES ARE BASED ON TOTAL AREA OF ROADWAY CLOSED TO TRAFFIC.

2. A MINIMUM OF ONE LANE IN EACH DIRECTION ON JEFFERSON AND OSUNA SHALL BE KEPT OPEN FOR THE DURATION OF THE PROJECT.

3. IN ORDER TO MINIMIZE THE TIME DURING WHICH LANES ARE CLOSED, THE CONTRACTOR SHALL DO AS MUCH PREPARATORY WORK AS POSSIBLE BEHIND THE EXISTING CURB, PRIOR TO CLOSING AND EXISTING LANES.

4. BARREL SPACING SHALL BE 25' FOR TAPERS & TRANSITIONS AND 50' ELSEWHERE.

5. NO LANE CLOSURES PERMITTED DURING BALLOON FIESTA MORATORIUM.



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

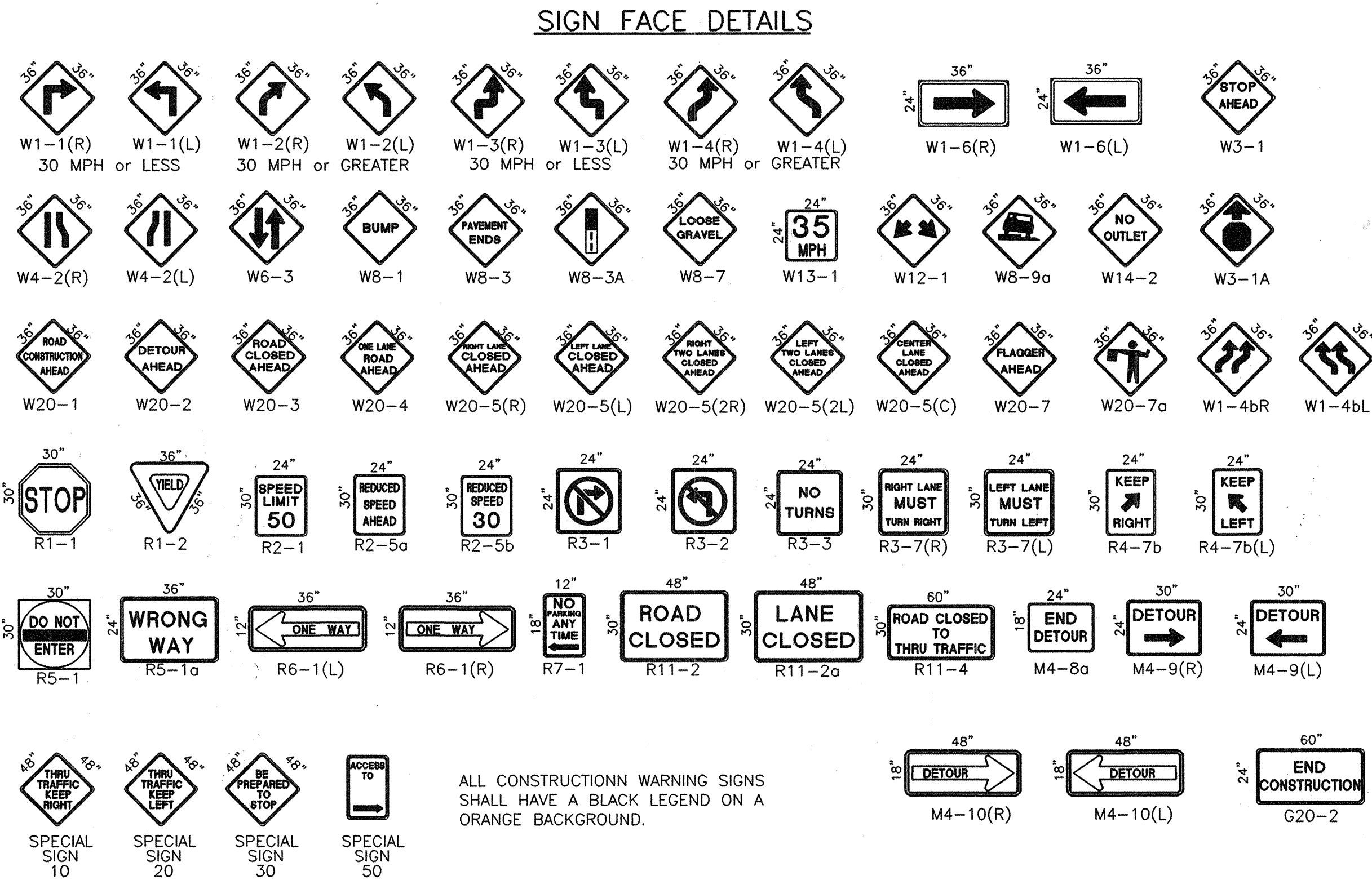
TAPER CRITERIA

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

TAPER LENGTH COMPUTATION

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



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
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40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

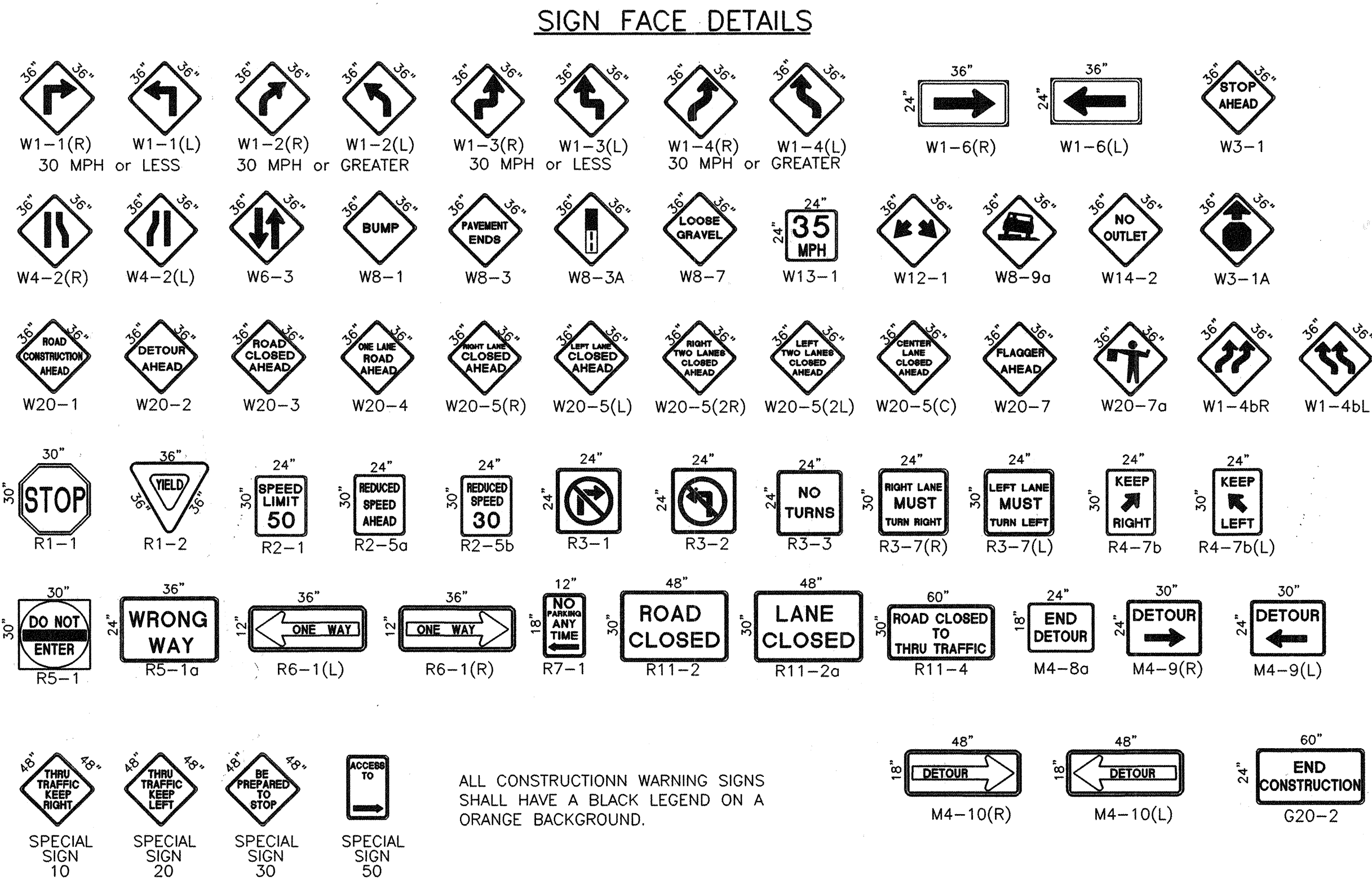
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40 MPH OR GREATER	$L = W \times S$

L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
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ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

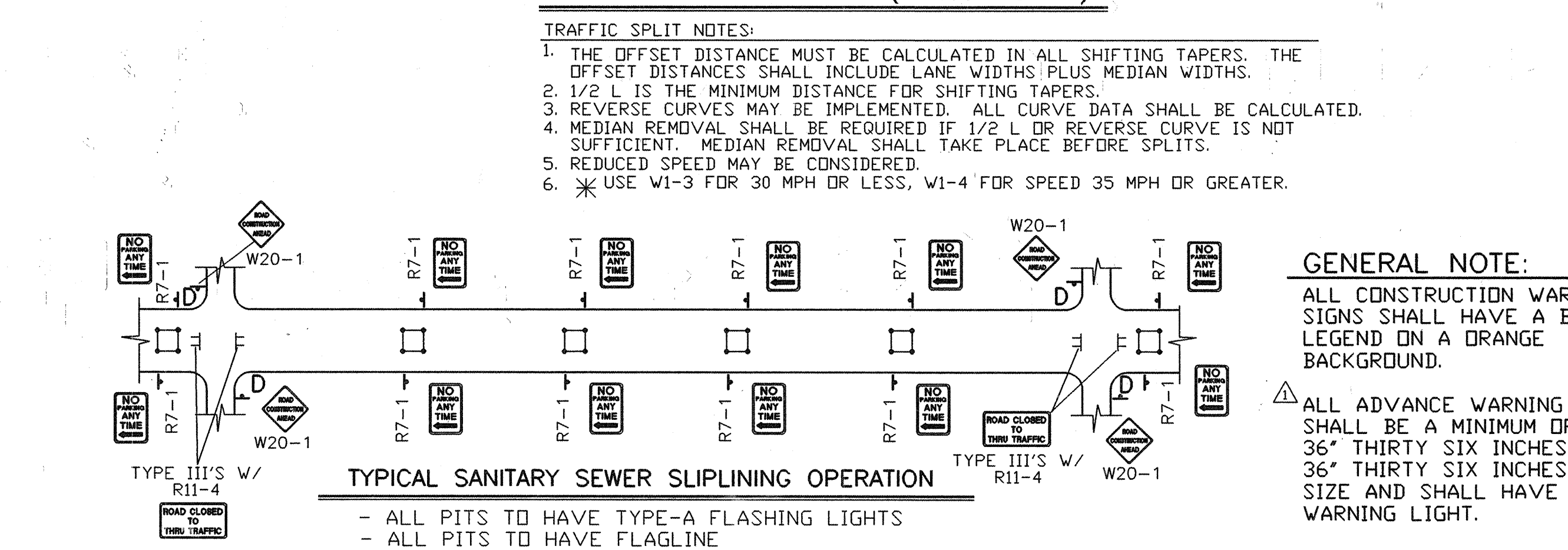
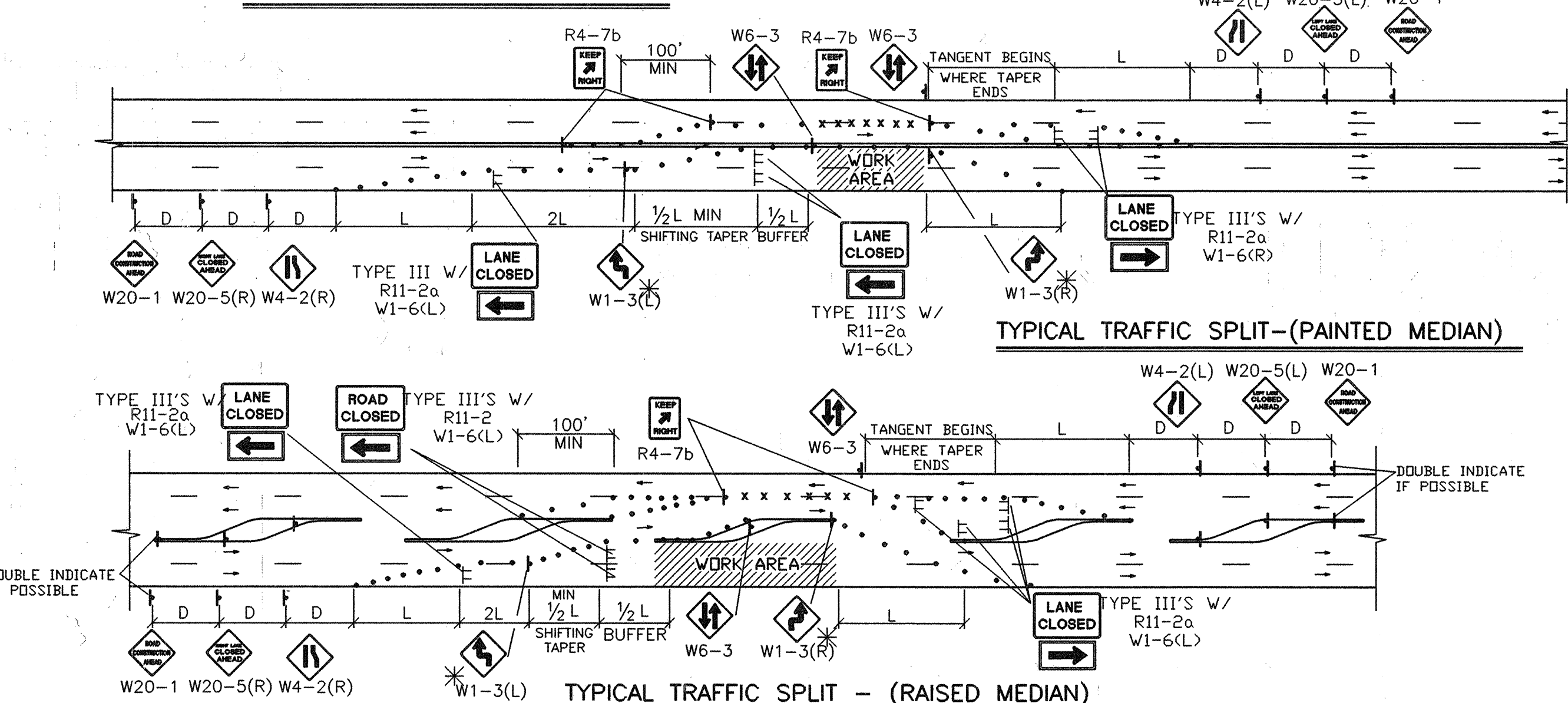
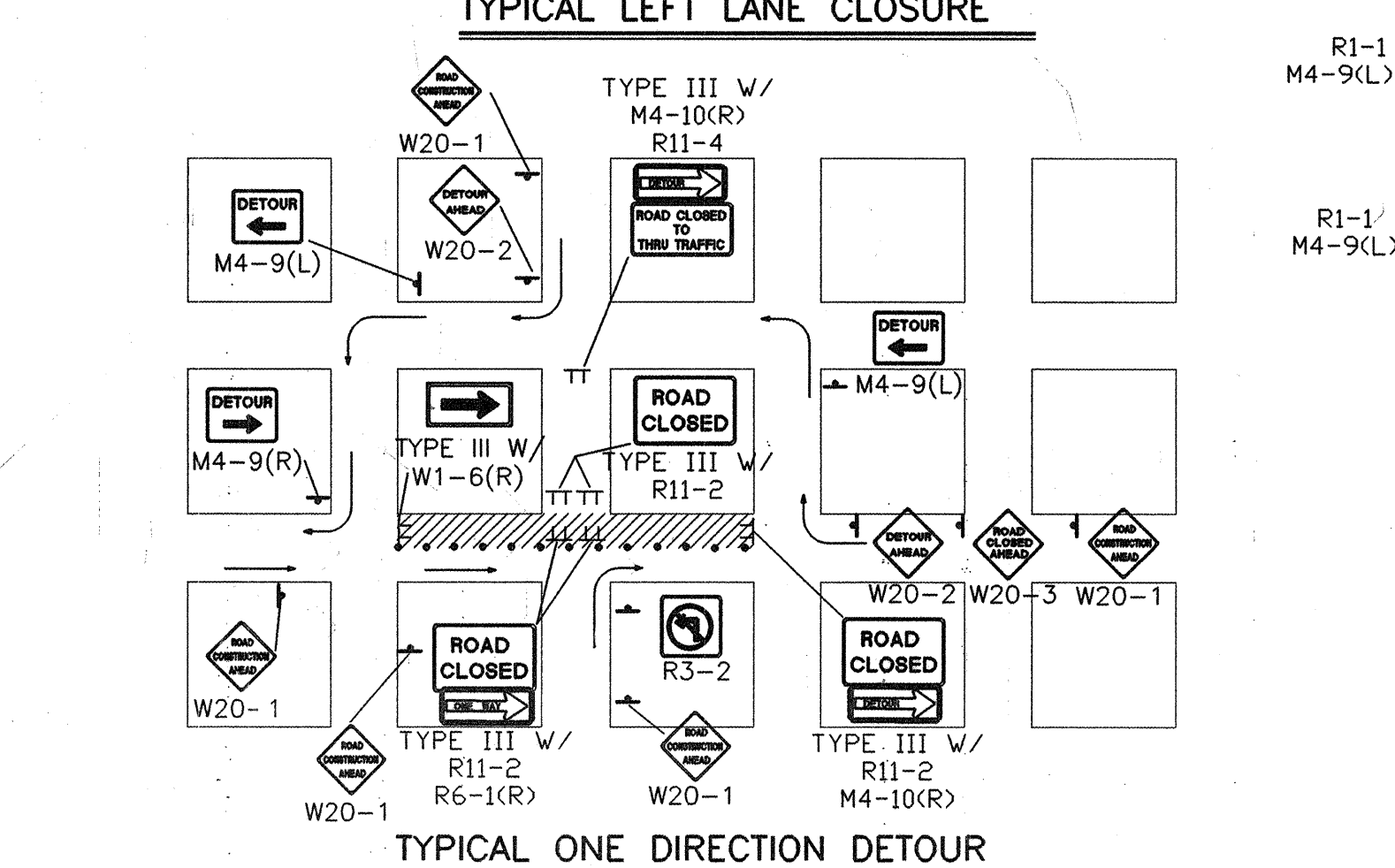
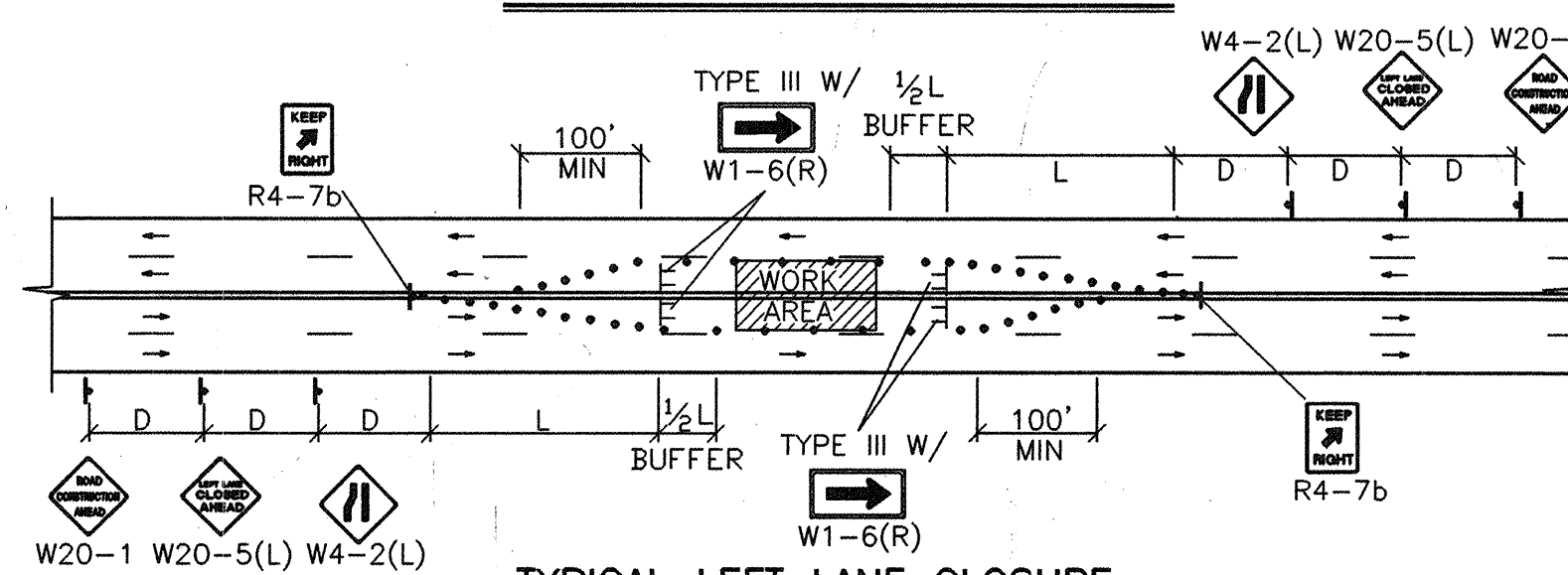
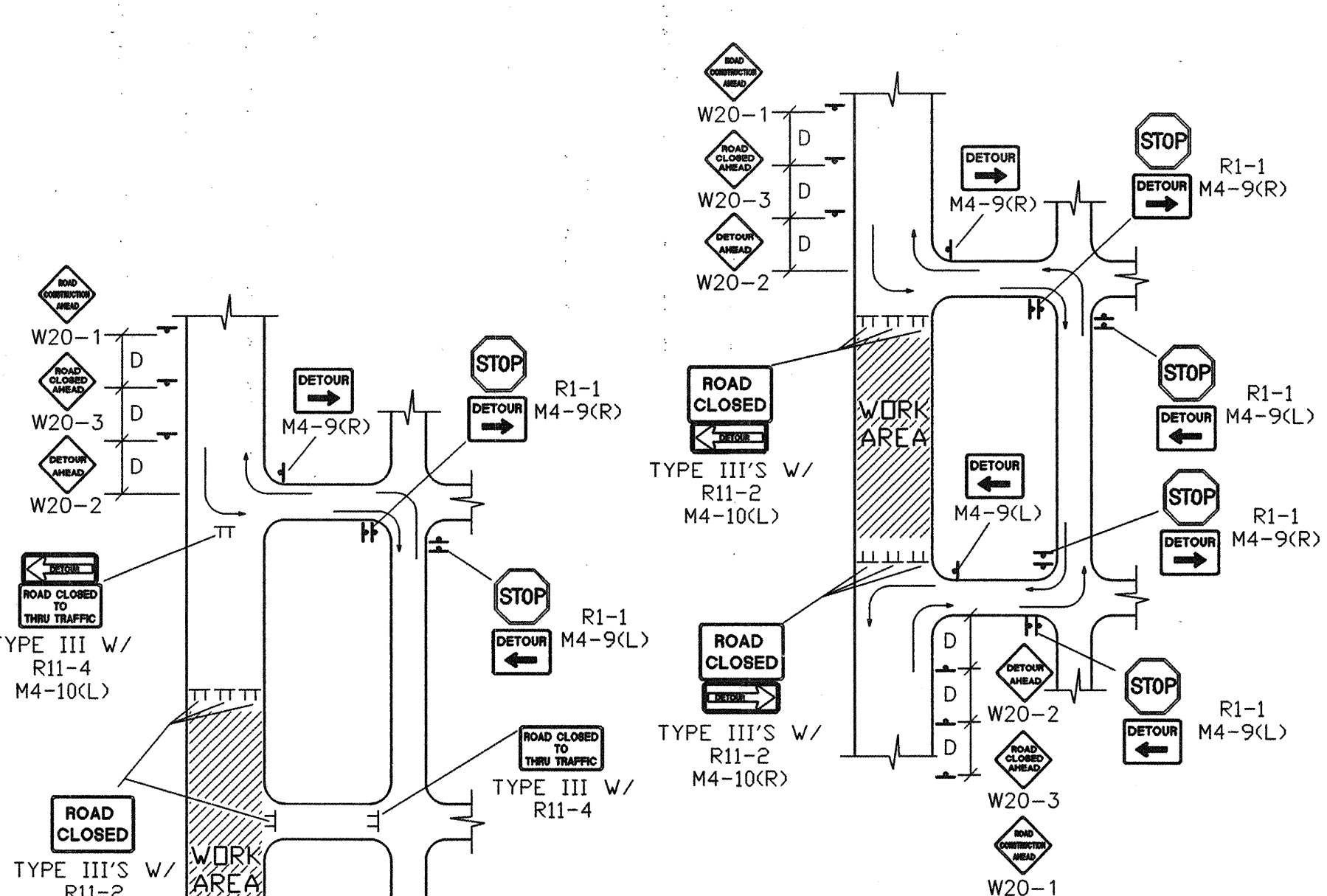
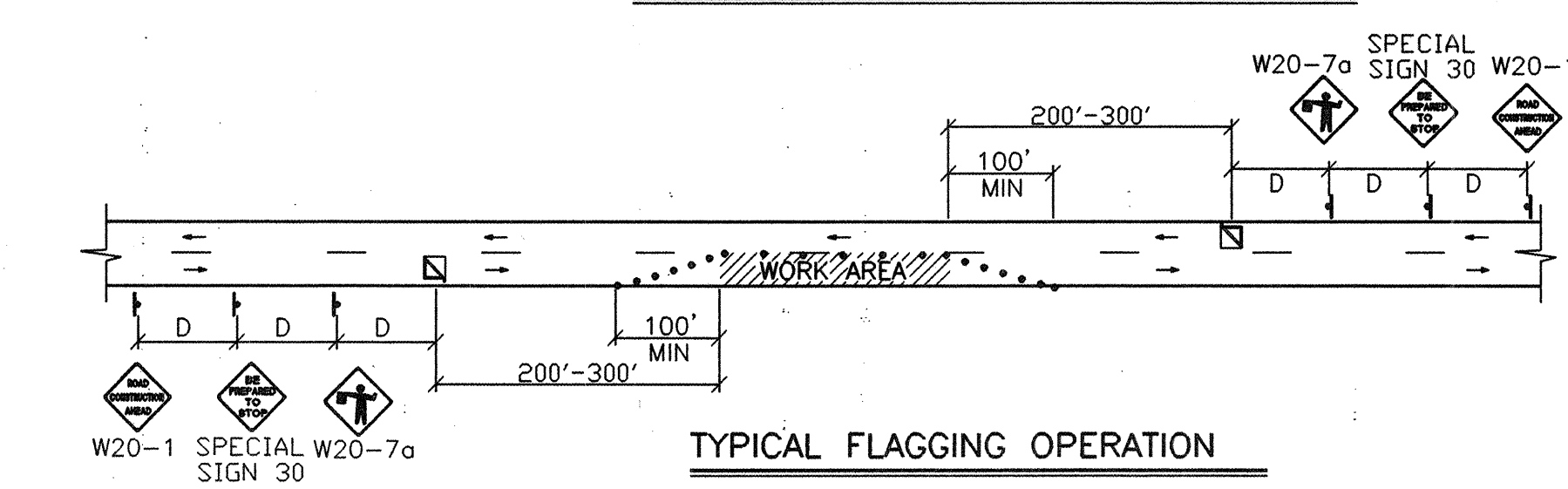
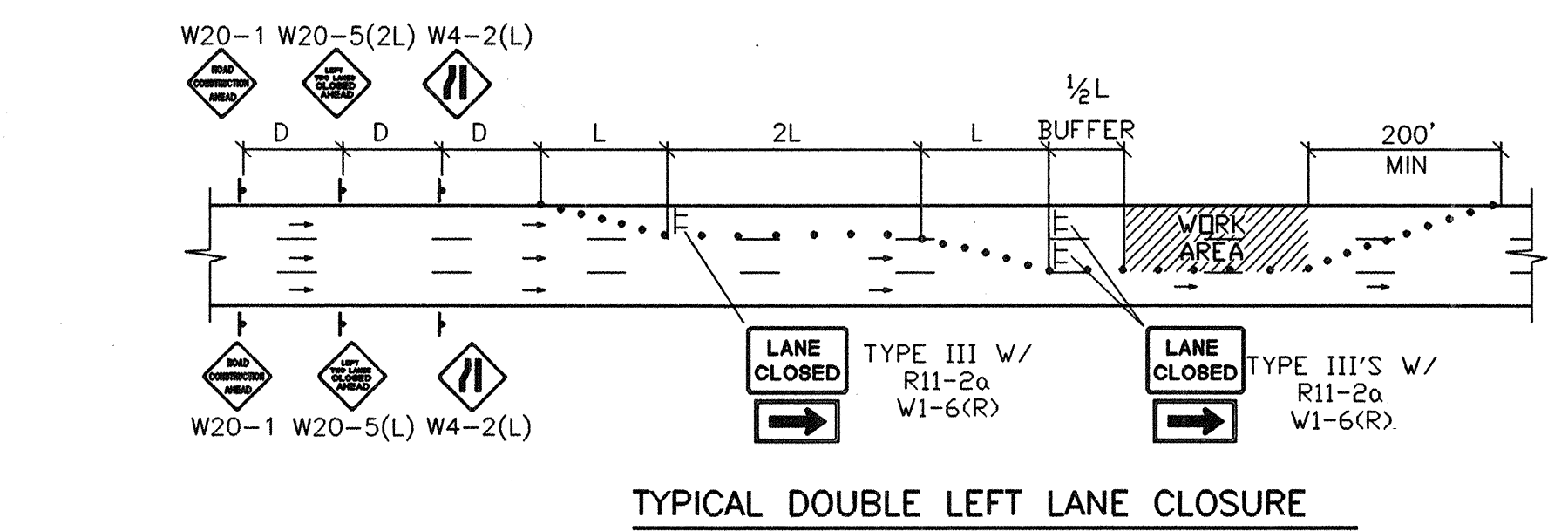
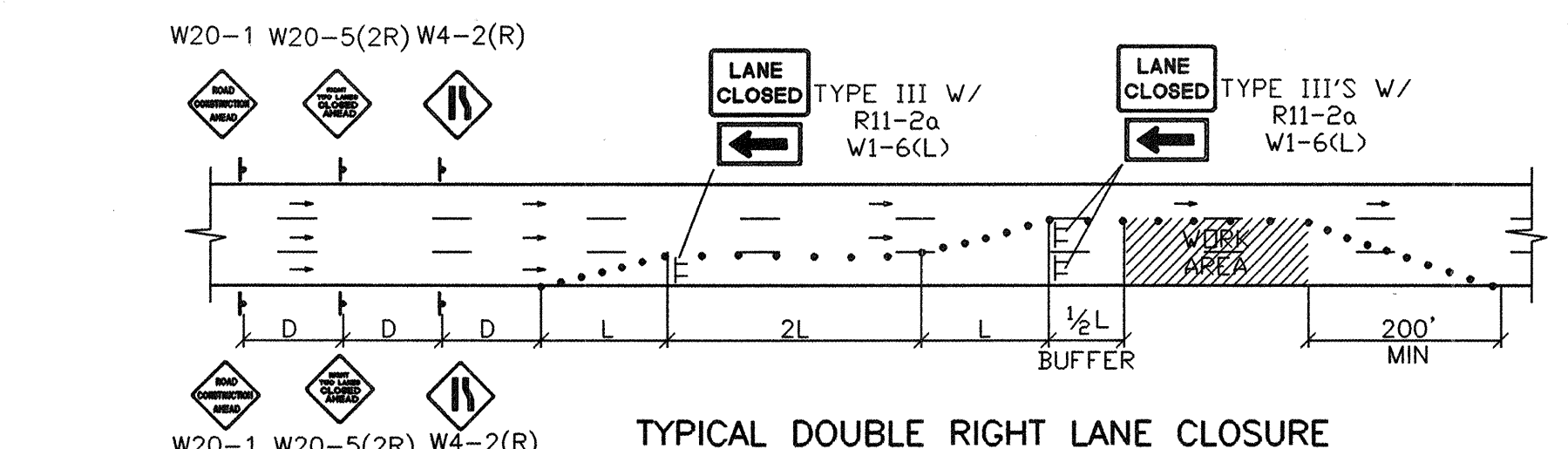
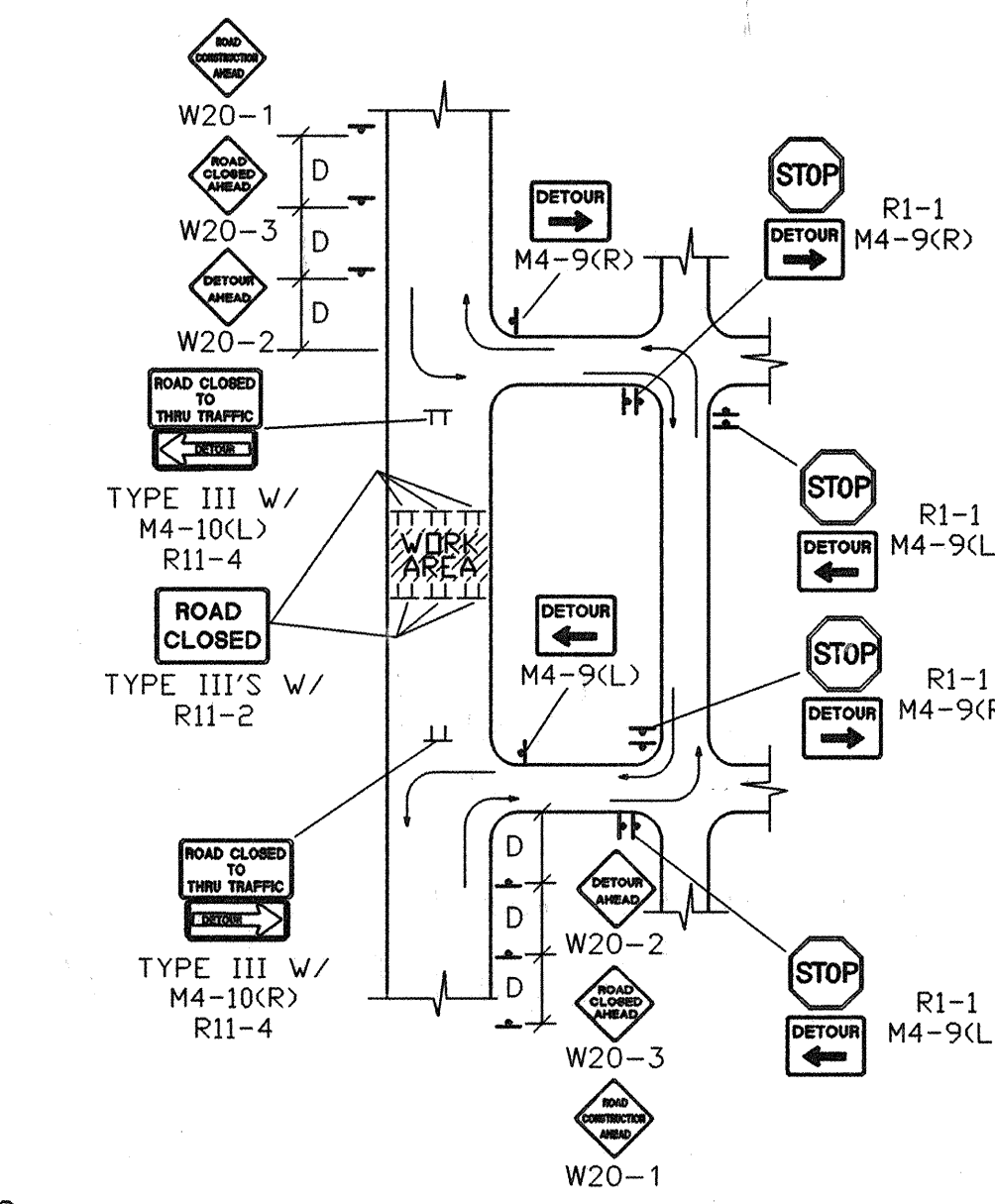
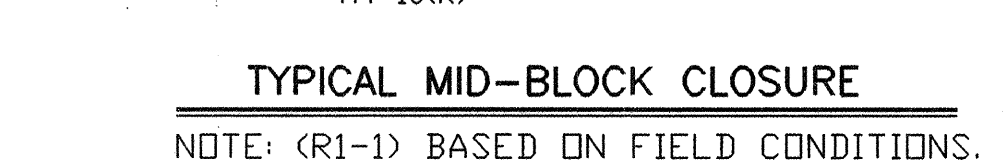
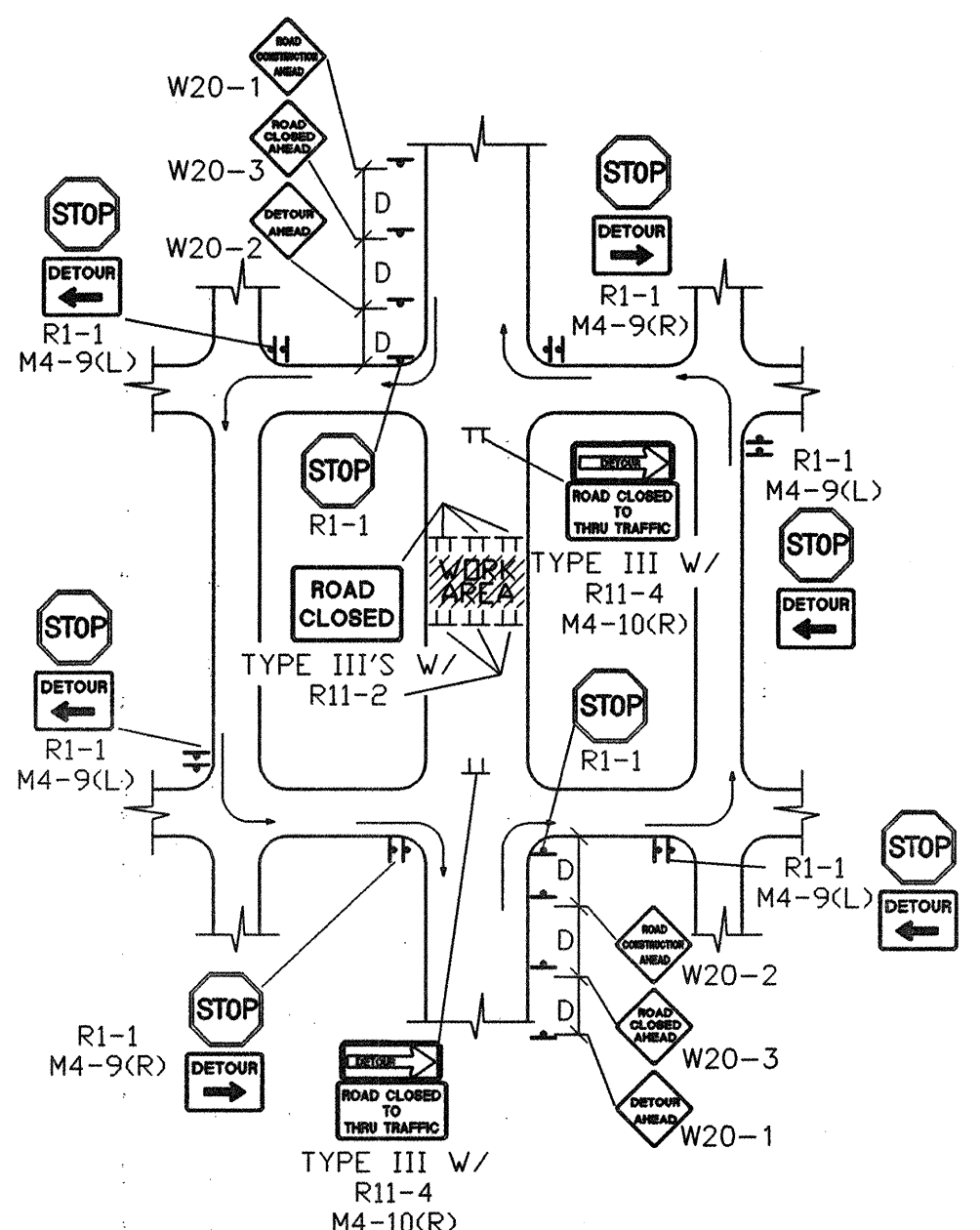


Diagram illustrating a four-way intersection with lane markings, signs, and dimensions. The diagram shows a left lane merging on a ramp, with signs W20-1, R3-2, and W1-6(L) indicating the merging lane and no left turn. Dimensions include D (distance) and 100' MIN (minimum length). A SPECIAL SIGN 10 is also shown.



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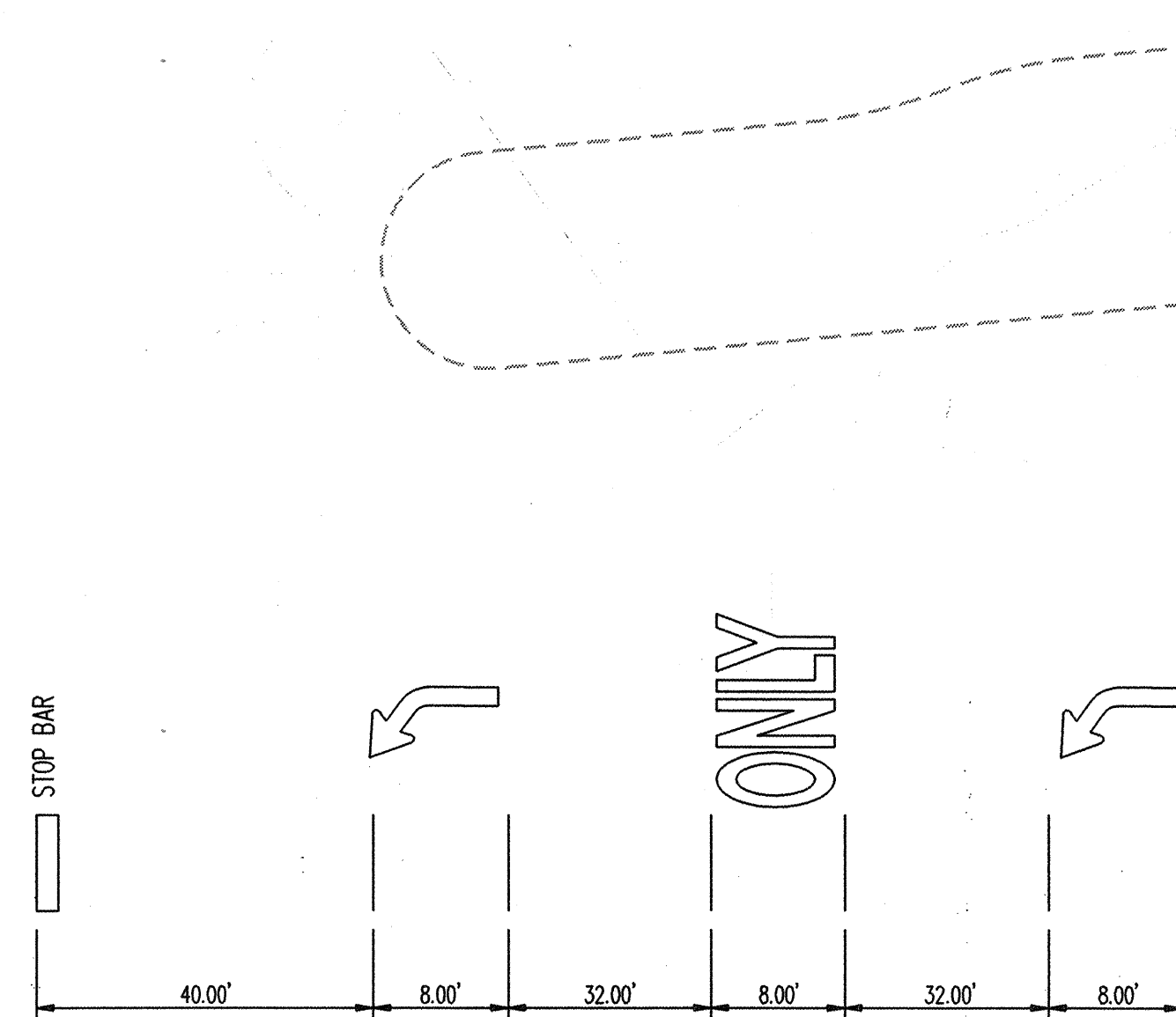
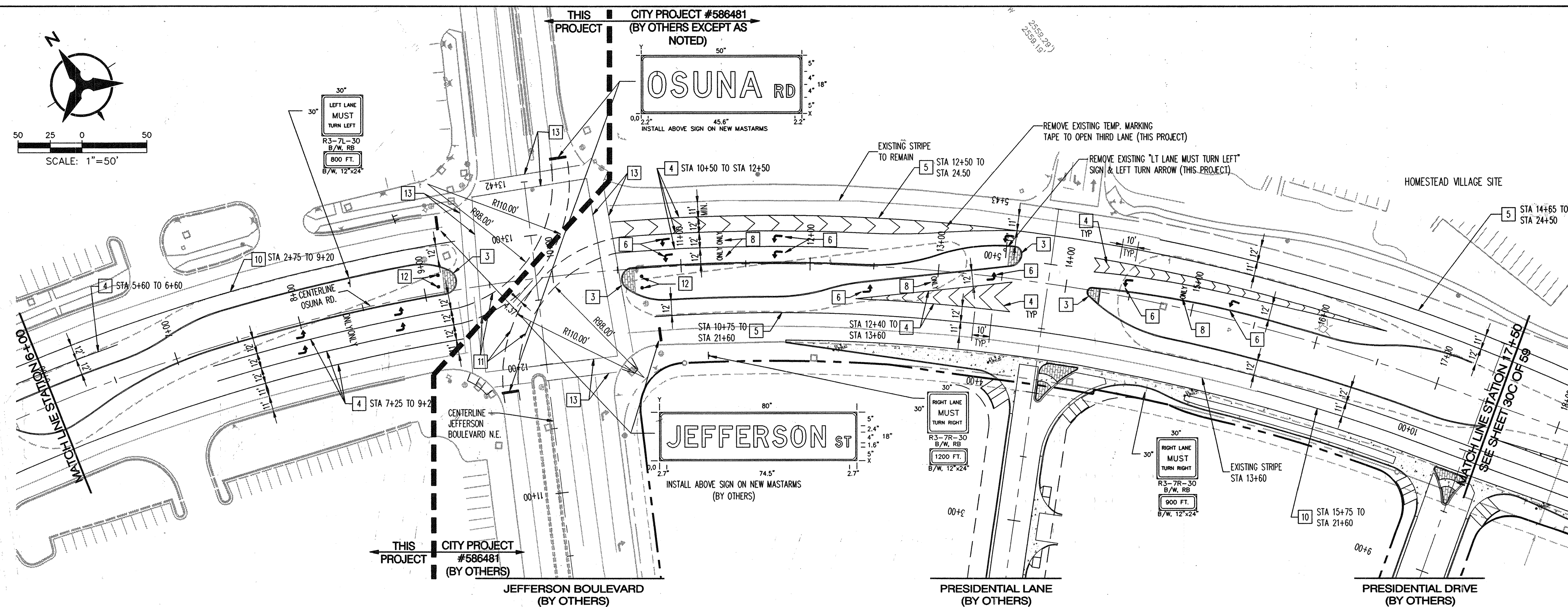
 Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP
OSUNA IMPROVEMENTS WEST OF JEFFERSON
TYPICAL TRAFFIC CONTROL
& SIGNING EXAMPLES (REF MUTCD)

	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 608791	Zone Map No. E-17-Z	Sheet 8	Of 9	

ENGINEER'S SEAL				SURVEY INFORMATION		FIELD NOTES		AS-BUILT INFORMATION	
				NO.		BY		DATE	
		JDL						NMSHC BRASS TABLET STAMPED "1-25-16, 1969"	
		9/24/97		REVISED GENERAL NOTE				WORK STARTED BY	
		Date		REMARKS				ACCEPTANCE BY	
		No.		Date				FIELD MEASUREMENTS BY	
				REVISIONS				DRAWINGS BY	
				DESIGN				CHECKED BY	
								MICRO-FILM INFORMATION	
Designed By: CG		DATE: 1/99						RECORDED BY	
Drawn By: CG		DATE: 1/99						NO.	

[illegible]

1 KEYED GENERAL NOTES

- 1 EXISTING 4" BROKEN WHITE STRIPE TO REMAIN
- 2 EXISTING 4" SOLID WHITE STRIPE TO REMAIN
- 3 PAINT ALL NEW MEDIAN NOSE REFLECTIVE YELLOW
- 4 NEW SOLID 4" WHITE STRIPE
- 5 NEW BROKEN 4" WHITE STRIPE. PROVIDE 30' OPENING AND 10' STRIPE SEQUENCE
- 6 INSTALL LEFT TURN ARROW
- 7 INSTALL THRU ARROW
- 8 INSTALL PWT MARKING "ONLY"
- 9 INSTALL THRU/RIGHT ARROW
- 10 NEW BROKEN 4" WHITE STRIPE. PROVIDE 7' GAP & 3' STRIPE SEQUENCE.
- 11 NEW BROKEN 4" WHITE STRIPE. PROVIDE 3' GAP & 1' STRIPE SEQUENCE.
- 12 INSTALL "LEFT TURN ON GREEN ARROW ONLY" SIGN ON EACH PEDASTAL (R10-5-24)
- 13 NEW 12" WIDE STRIPES, 10' APART OC.

STRIPING AND SIGNAGE NOTES

1. ALL NEW STRIPING SHALL BE REFLECTORIZED PLASTIC.
2. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH MUTCD GUIDELINES.

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ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

**OSUNA IMPROVEMENTS WEST OF JEFFERSON
PERMANENT STRIPING & SIGNAGE PLAN
OSUNA ROAD STATION 1+00 TO 17+50**

Design Review Committee

APPROVED

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DESIGN REVIEW COMMITTEE

City Engineer Approval

City Project No. 608791

Zone Map No.
F-17-7

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