

LANDSCAPE CONSTRUCTION PLANS
FOR
VENTANA RANCH TRACT 22 A
TERRAZAS PARK

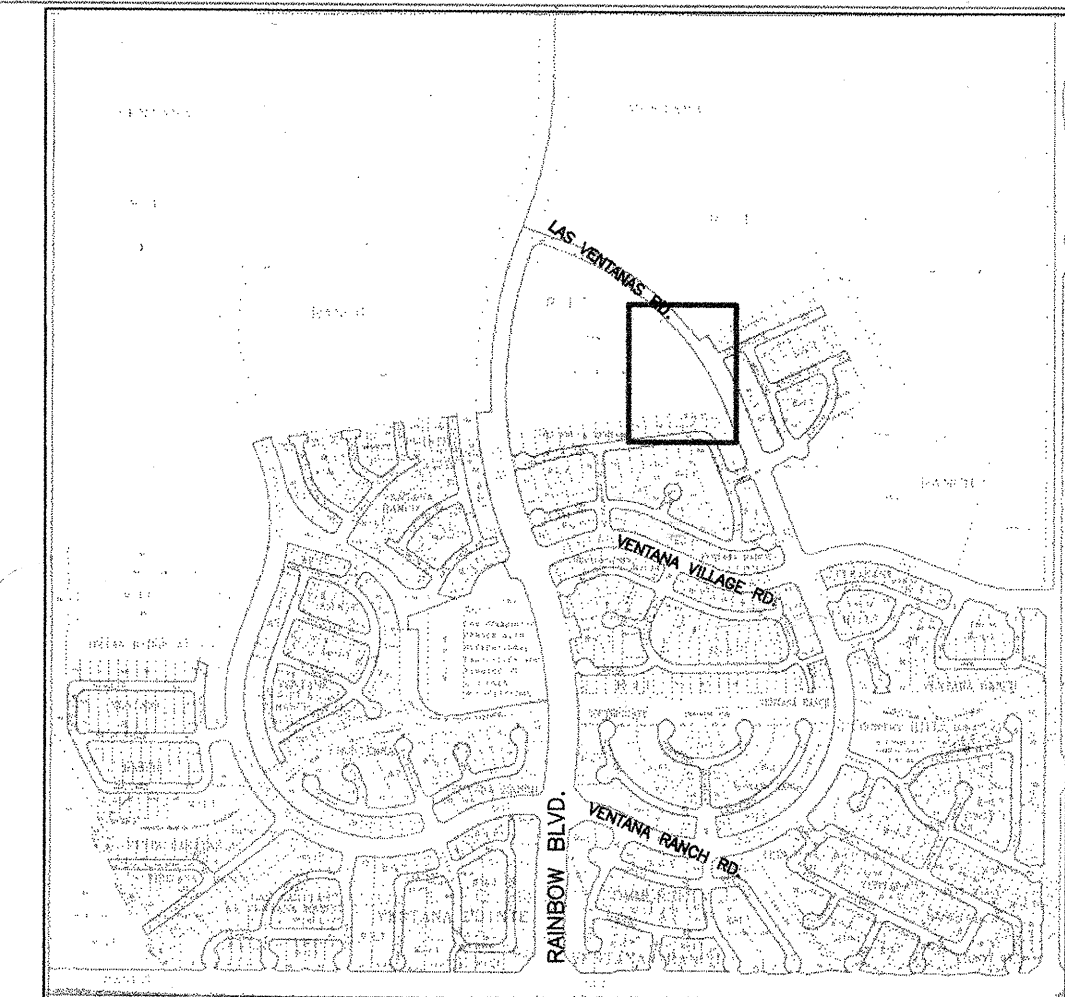
CLASS I CONSTRUCTION (NOT FOR BID)

CITY OF ALBUQUERQUE, NEW MEXICO
PARKS AND RECREATION
DEPARTMENT
NOVEMBER 2000

INDEX TO DRAWINGS

SHEET NUMBER	DESCRIPTION
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7B.	Amended Irrigation Plan

FOR INFORMATION ONLY



VICINITY MAP ZONE ATLAS B-9-Z

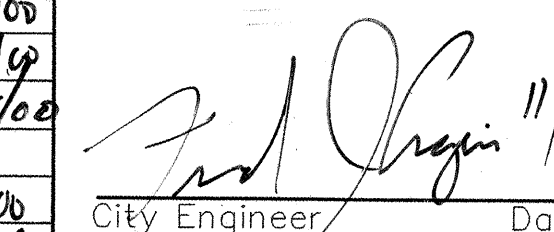
NOTICE TO CONTRACTORS

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER TAB SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- 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.
- 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.
- CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER 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.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

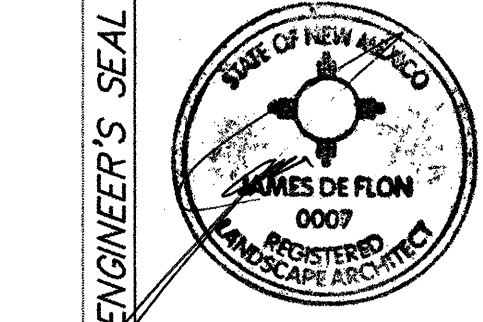
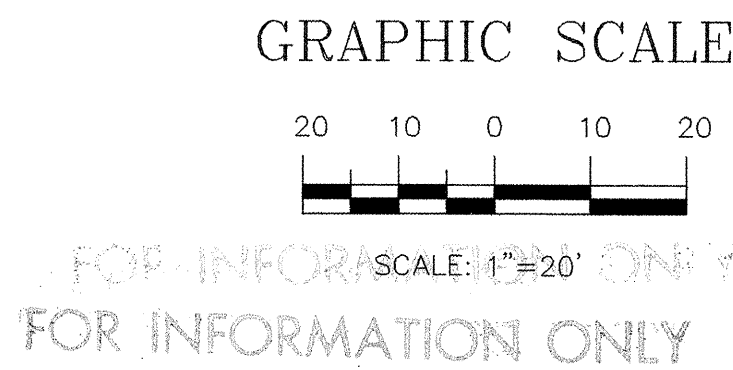
- ☐ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☐ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- ☐ SIDEWALKS AND WHEELCHAIR RAMP WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☐ IF CURB IS DEPRESSIONED 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.

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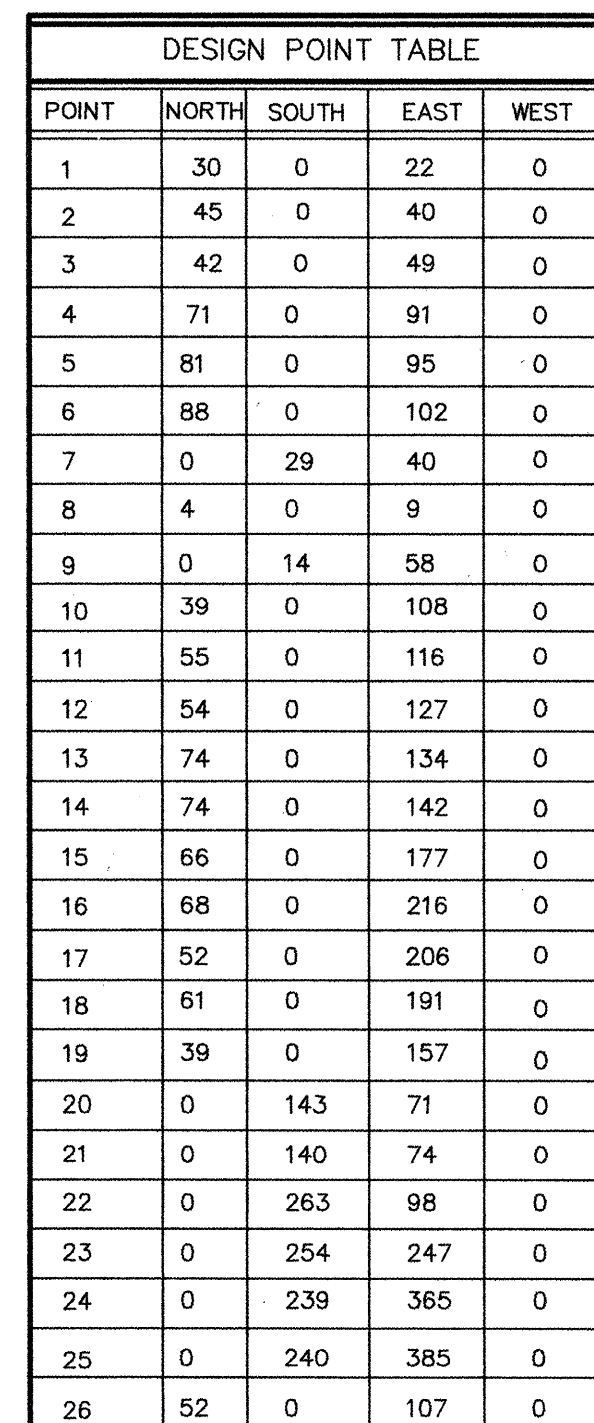
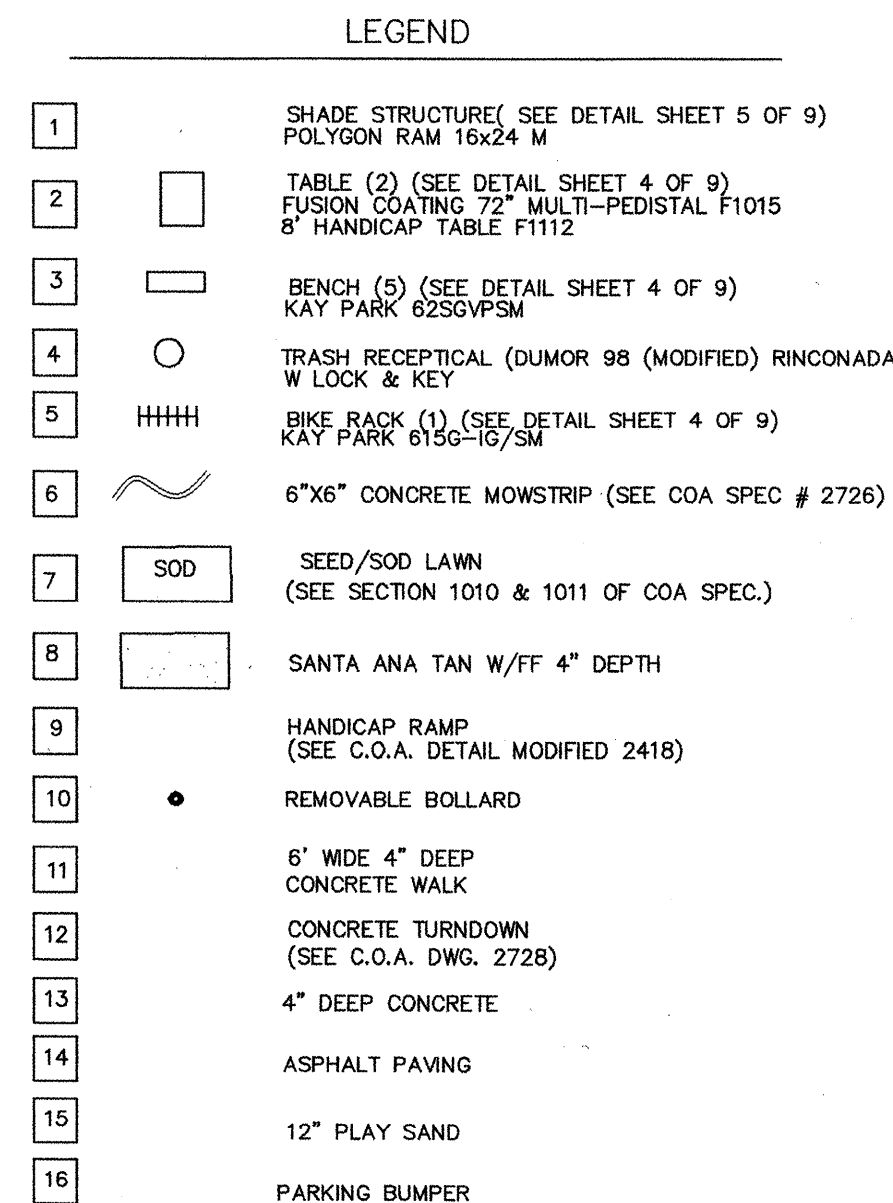
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ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	
		DRC Chairman		11/21/00		APPROVED FOR CONSTRUCTION	
		Transportation		11/15/00		 11/21/00 City Engineer Date	
		Water/Wastewater		11/15/00			
		Hydrology		11/15/00			
		Parks		11/15/00			
Constr.		11/15/00		CITY PROJECT NO.		SHEET	
AMAFCA NAUC		650991		1 of 9			



THE HILLTOP LANDSCAPE ARCHITECTS AND CONTRACTORS 7909 EDITH BLVD. N.E. ALBUQUERQUE, NEW MEXICO 87109 (505)898-9690			
CITY OF ALBUQUERQUE			
TITLE: TRACT 22A TERRAZAS PARK SITE IN VENTANA RANCH AS BUILT GRADING PLAN			
DESIGN REVIEW COMMITTEE N/A	CITY ENGINEER APPROVAL N/A	LAST DESIGN UPDATE	MO./DAY/YR. MO./DAY/YR.
CITY PROJECT NO. 650991		ZONE MAP NO. B-9-Z	SHEET 2 OF 9

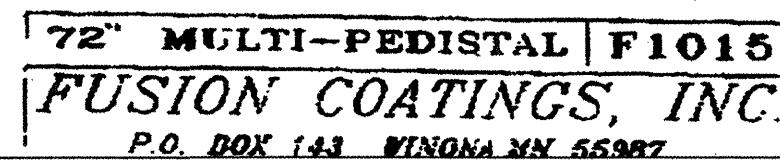
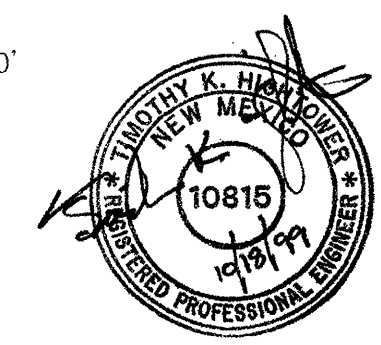
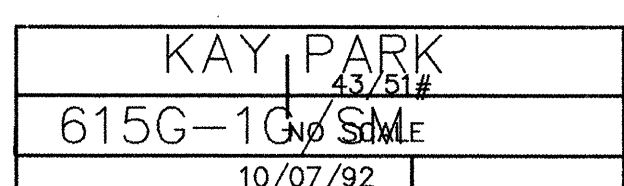
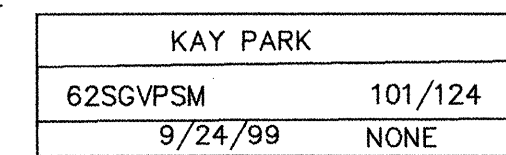


ENGINEER'S SEAL		FIELD NOTES		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE	ACS BRASS TABLET STAMPED "2-810 1980"	CONTRACTOR	DATE	NO.	DATE
			GEOGRAPHIC POSITION (NAD 1927)	INSPECTED BY	DATE		DATE
			N.M. STATE PLANE COORDINATES (CENTRAL ZONE) X= 357,543.73 Y= 1,527.48	ACCEPTANCE BY	DATE		DATE
			GROUND TO GRID FACTOR = 0.99966354	VERIFICATION BY	DATE		DATE
			DELTA ALPHA = -00° 16' 30"	DRAWINGS CORRECTED BY	DATE		DATE
			MGVD 1929 ELEVATION = 5429.35	MICRO-FILM INFORMATION	DATE		DATE
				RECORDED BY	DATE		DATE



FOR INFORMATION ONLY THE HILLTOP LANDSCAPE ARCHITECTS AND CONTRACTORS 7909 EDITH BLVD. N.E. ALBUQUERQUE, NEW MEXICO 87109 (505)898-9690		NO. DATE DESIGNED BY DRAWN BY CHECKED BY
CITY OF ALBUQUERQUE		
TITLE: TRACT 22 TERRAZAS PARK SITE IN VENTANA RANCH. CONSTRUCTION PLAN		
DESIGN REVIEW COMMITTEE APPROVED NOV 21 2000 P. J. S.	CITY ENGINEER APPROVAL APPROVED NOV 21 2000 CITY ENGINEER	LAST DESIGN UPDATE MO./DAY/YR. MO./DAY/YR. MO./DAY/YR. MO./DAY/YR.
CITY PROJECT NO. 650991	ZONE MAP NO. B-9-Z	SHEET 3 OF 9

ENGINEER'S SEAL		FIELD NOTES		BENCH MARKS		AS BUILT INFORMATION	
		NO.	BY	DATE		CONTRACTOR	
					ACS BRASS TABLET STAMPED "2-810 1980"	WORK STAKED BY	DATE
					GEOGRAPHIC POSITION (NAD 1927)	ACCEPTANCE BY	DATE
					N.M. STATE PLANE COORDINATES (CENTRAL ZONE) X= 357,543.73 Y= 1,527.48	FIELD DRAWINGS	DATE
					DELTA TO GRID FACTOR = 0.99966354	CHECKED BY	DATE
					GROUND ALPHA = -00° 16' 30"	<i>MICRO-FILM INFORMATION</i>	
					MGVD 1929 ELEVATION = 5429.35	RECORDED BY	DATE
						NO.	



STATE OF NEW MEXICO
JAMES DE FLON
0007
REGISTERED
LANDSCAPE ARCHITECT

10/3/00

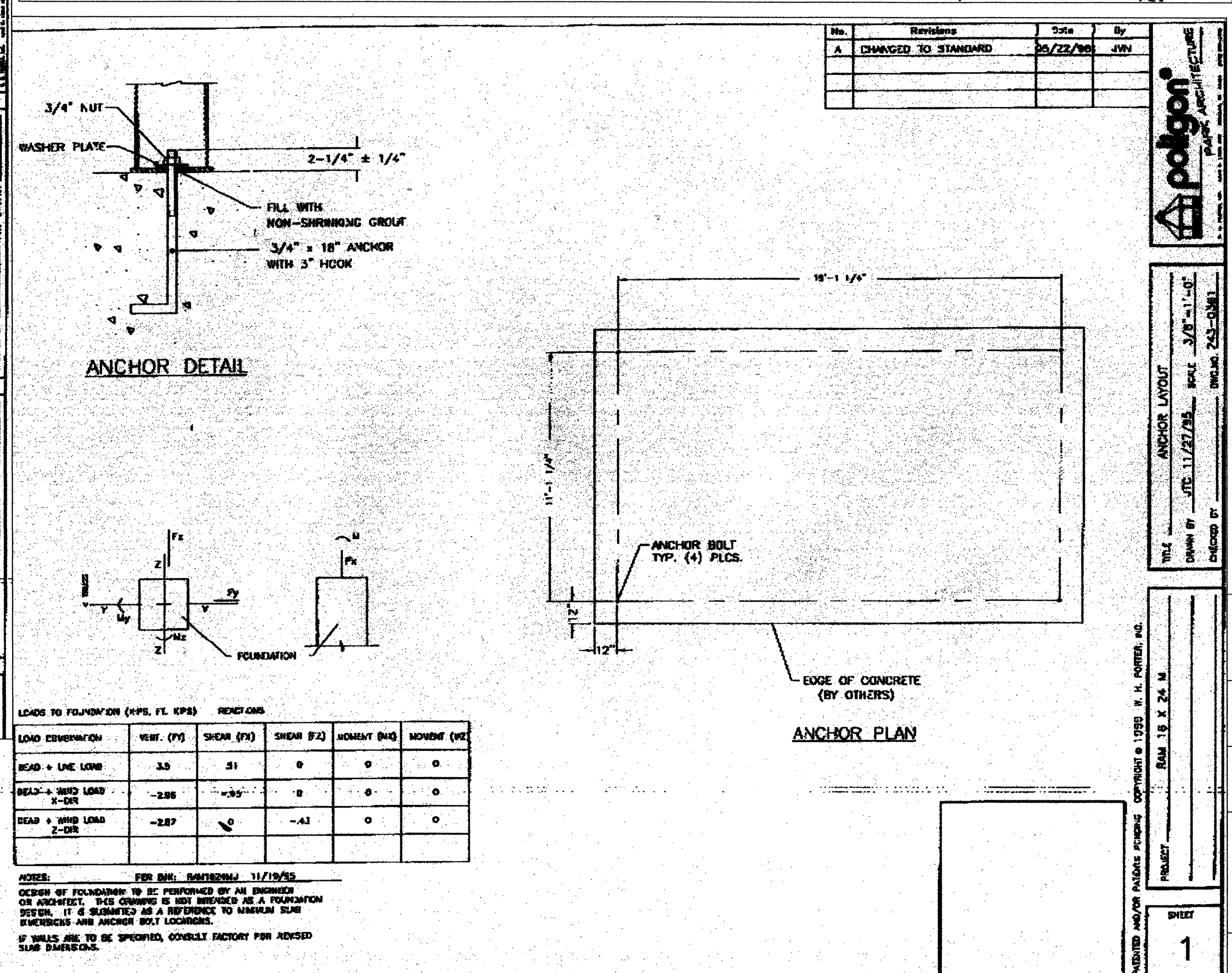
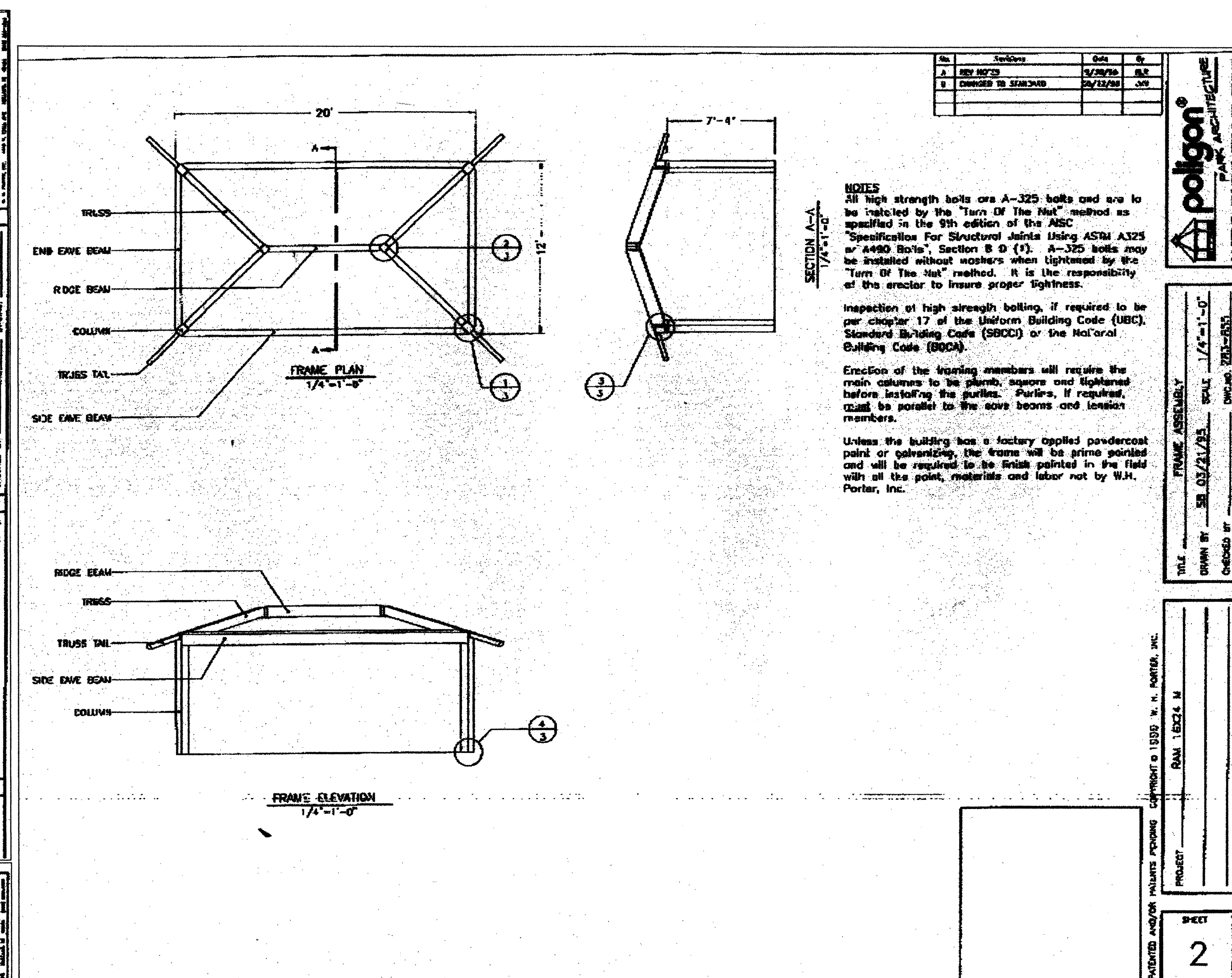
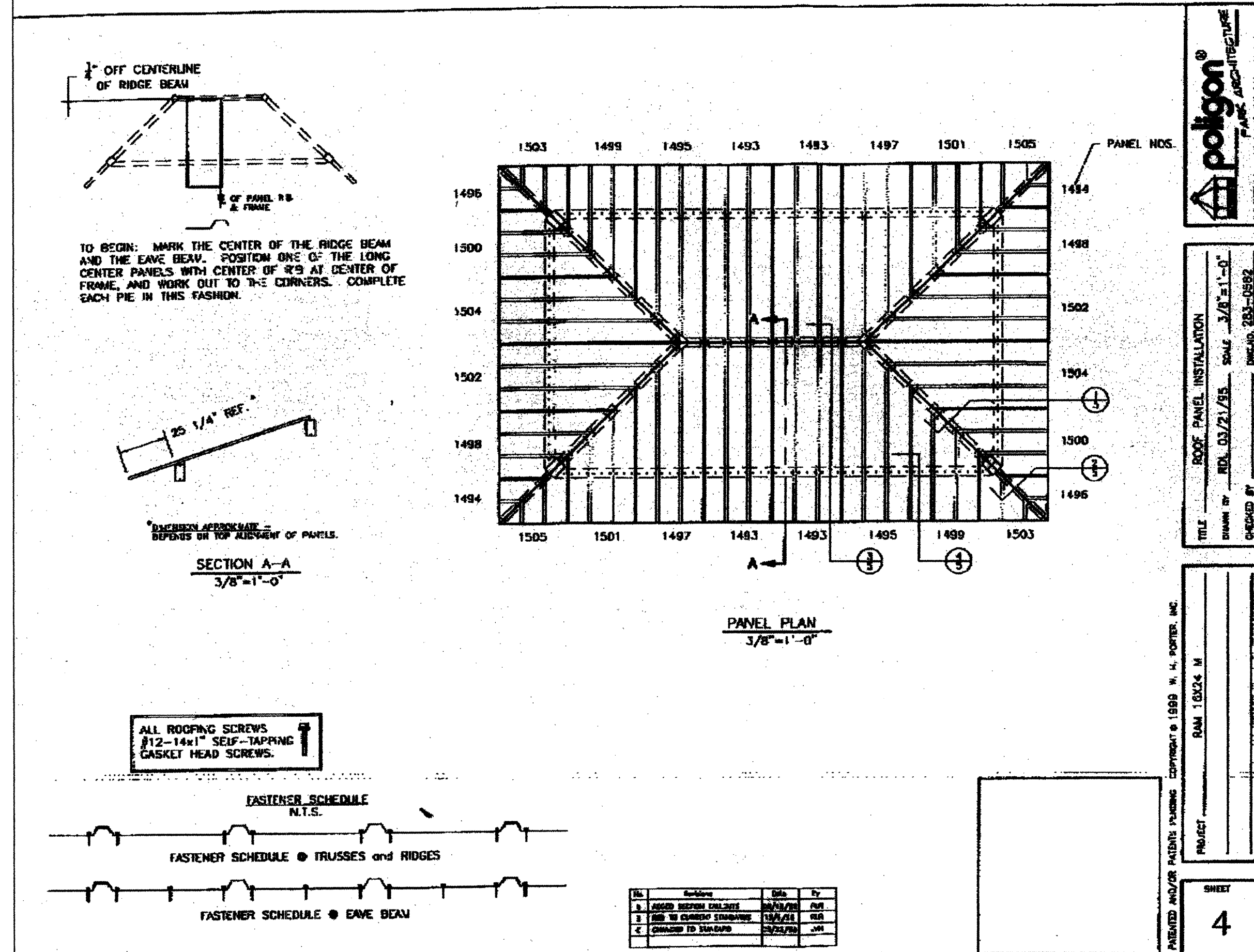
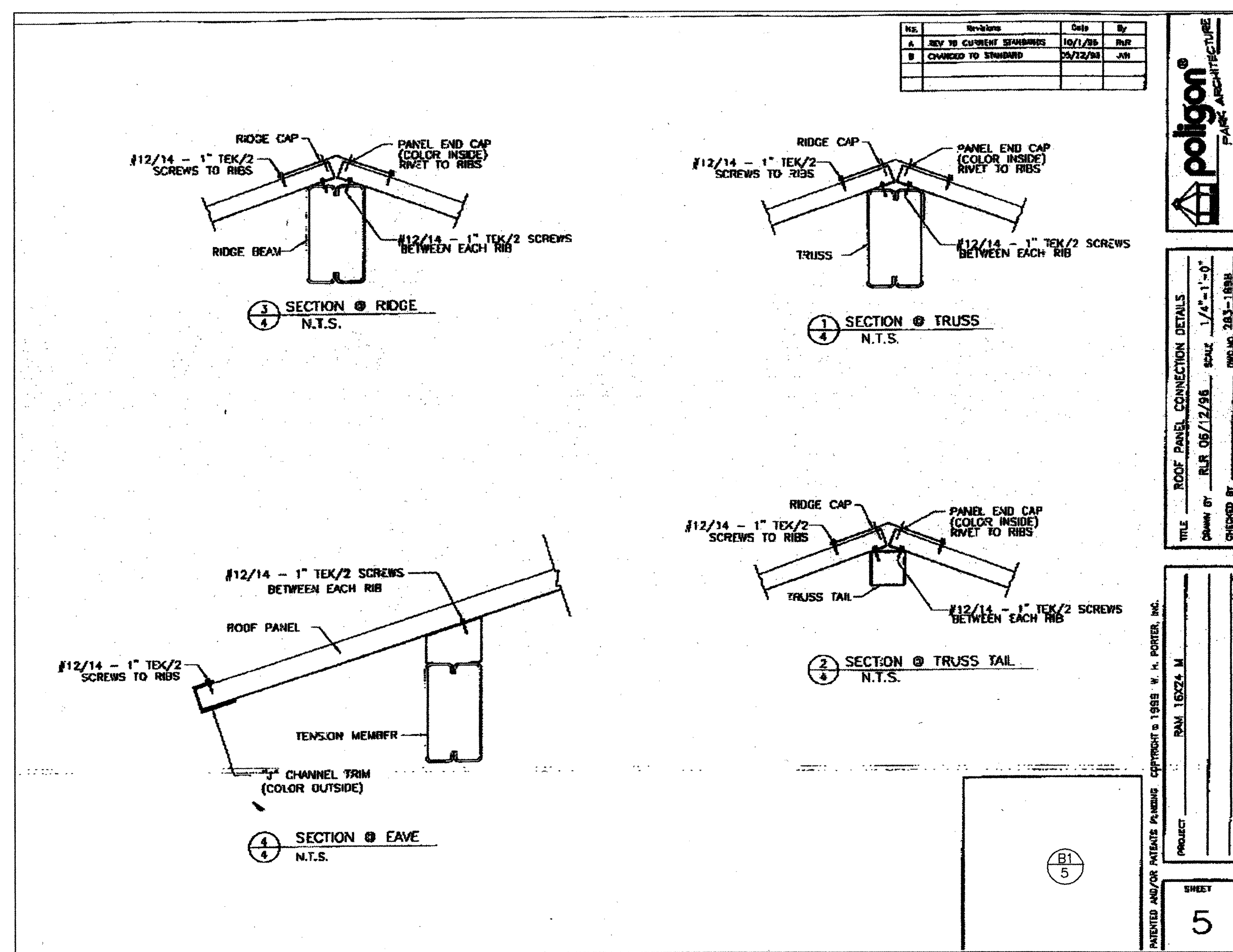
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VENTANA RANCH TRACT 22
TERRAZAS PARK

DETAIL SHEET

				LAST DESIGN UPDATE	MO./DAY/YR.		MO./DAY/YR.	
CITY PROJECT NO. 650991		ZONE MAP NO. B-9-Z			SHEET 4 OF 9			



AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	CONTRACTOR	DATE	NO.	DATE	NO.	DATE
WORKED BY	DATE	ACS BRASS TABLE STAMPED "2-BIT 1980"	DATE	BY	DATE	BY	DATE
INSPECTOR'S	DATE	GEOGRAPHIC POSITION (NAD 1927)	DATE	REMARKS	DATE	REMARKS	DATE
VERIFICATION BY	DATE	N.M. STATE PLANE COORDINATES (CENTRAL ZONE) X= 357,543.73 Y= 1,527.48	DATE	DESIGN	DATE	DESIGN	DATE
DRAWINGS BY	DATE	GROUND TO GRID FACTOR = 0.99966354	DATE	DESIGNED BY	DATE	DESIGNED BY	DATE
MICRO-FILM INFORMATION	DATE	DELTA ALPHA = -00° 16' 30"	DATE	DRAWN BY	DATE	DRAWN BY	DATE
RECORDED BY	DATE	MGVD 1929 ELEVATION = 5429.35	DATE	CHECKED BY	DATE	CHECKED BY	DATE
NO.	DATE		DATE		DATE		DATE

FOR INFORMATION ONLY

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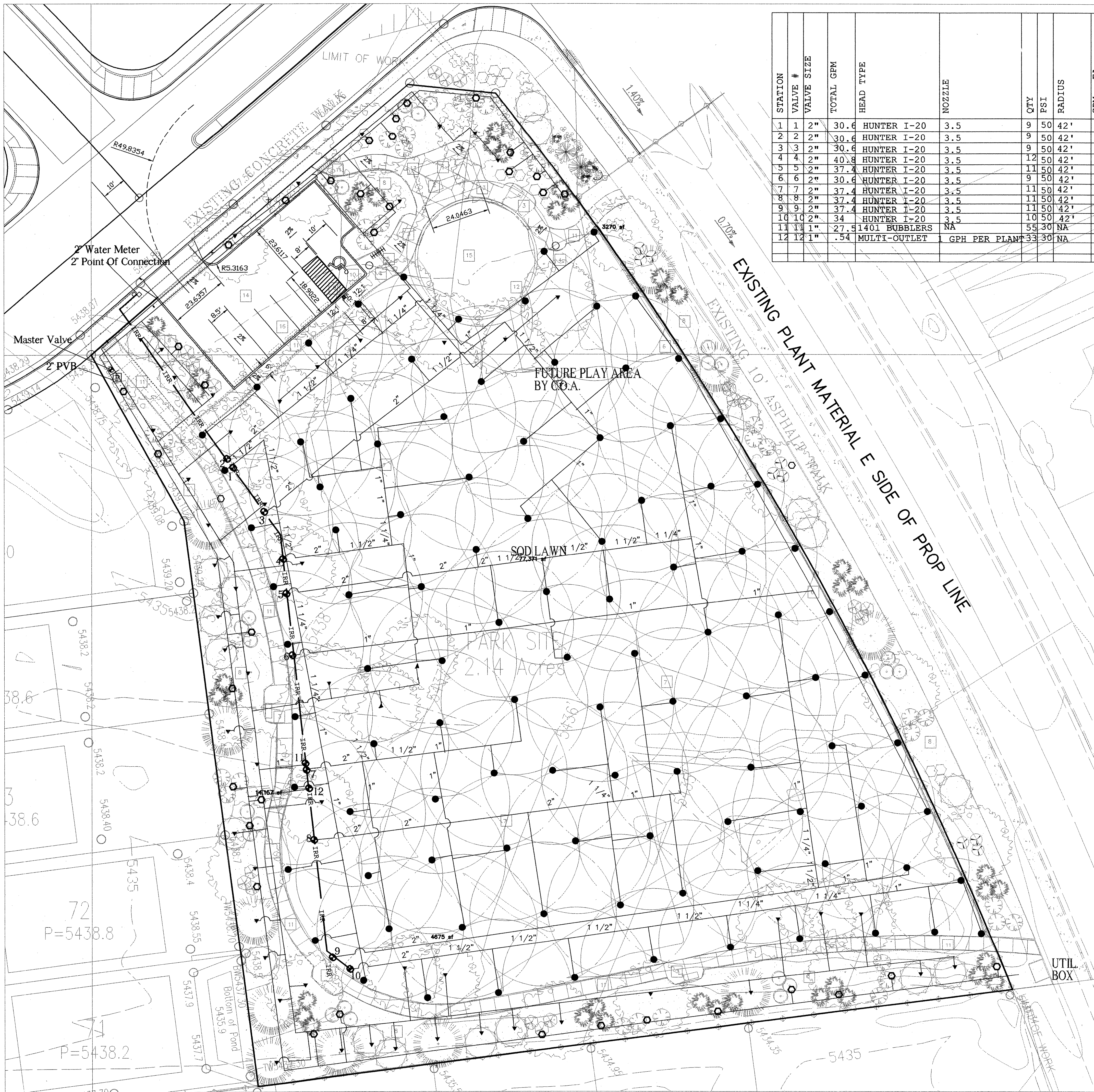
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ALBUQUERQUE, NEW MEXICO 87109
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VENTANA RANCH TRACT 22A PARK TERRAZAS PARK

DETAIL SHEET

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVE	APPROVE		
NOV 21 2000	NOV 21 2000		
CITY ENGINEER	CITY ENGINEER		

CITY PROJECT NO. 650991 ZONE MAP NO. B-9-Z SHEET 5 OF 9



STATION	VALVE #	VALVE SIZE	TOTAL GPM	HEAD TYPE	NOZZLE	QTY	PSI	RADIUS	GPM - EA	PRECIP	IRRIGATION CYCLE	RUN TIME
1	1	2"	30.6	HUNTER I-20	3.5	9	50	42'	3.4	2	15-20MIN	
2	2	2"	30.6	HUNTER I-20	3.5	9	50	42'	3.4	2	15-20MIN	
3	3	2"	30.6	HUNTER I-20	3.5	9	50	42'	3.4	2	15-20MIN	
4	4	2"	40.8	HUNTER I-20	3.5	12	50	42'	3.4	2	15-20MIN	
5	5	2"	37.4	HUNTER I-20	3.5	11	50	42'	3.4	2	15-20MIN	
6	6	2"	30.6	HUNTER I-20	3.5	9	50	42'	3.4	2	15-20MIN	
7	7	2"	37.4	HUNTER I-20	3.5	11	50	42'	3.4	2	15-20MIN	
8	8	2"	37.4	HUNTER I-20	3.5	11	50	42'	3.4	2	15-20MIN	
9	9	2"	37.4	HUNTER I-20	3.5	11	50	42'	3.4	2	15-20MIN	
10	10	2"	34	HUNTER I-20	3.5	10	50	42'	3.4	2	15-20MIN	
11	11	1"	27.5	1401 BUBBLERS	NA	55	30	NA	.5GPM	1	20-25MIN	
12	12	1"	.54	MULTI-OUTLET	GPH PER PLANT	33	30	NA	1.0GPH	1	20-25MIN	

- IRRIGATION LEGEND
- 2" POINT OF CONNECTION
 - PVB BACKFLOW PREVENTOR W/ MASTER VALVE
FEBCO WITH HOTBOX FEB765-2 HB#2
 - ZONE VALVE
RAINBIRD FEB PRS-B MODEL 150 PEB
 - HUNTER I-20 3.5 NOZZLE 42' RADIUS 3.4 GPM W/ CHECK VALVE
 - RAINBIRD 1400 SERIES (TREES) 29
BUBBLERS 0.5 GPM
 - RAINBIRD MULTI-OUTLET (SHRUBS) 2 POINTS PER SHRUB
XERI-BUG MODEL #XBT-10-6 1 GPH
 - SLEEVES
 - MAINLINE SCH. 40 PVC (2")
LATERAL LINE SCH 40PVC (3/4" UNLESS OTHERWISE NOTED)
 - CONTROLLER TORO SCORPIO M5S-2S-S1 (16 STATION)
IN STAINLESS STEEL ENCLOSURE
- PIPE WILL BE SIZED AS FOLLOWS:
50 GPM = 2"
30 GPM = 1 1/2"
22 GPM = 1 1/4"
12 GPM = 1"
8 GPM = 3/4" (DRIP ONLY)

IRRIGATION NOTES:
Irrigation will be operated by automatic controller.
CONTROLLER TO BE SET ON STAINLESS STEEL ENCLOSURE MUST BE ACCESSIBLE TO MAINTENANCE PERSONNEL.

RAINBIRD 1400 SERIES (TREES) 28
BUBBLERS .5 GPM

RAINBIRD MULTI-OUTLET (SHRUBS) 2 POINTS PER SHRUB 76
XERI-BUG MODEL #XBT-10-6 1 GPH

CITY STANDARD MASTER VALVE DETAIL #2702-A
CITY STANDARD TREE BUBBLER DETAIL #2710
CITY STANDARD SHRUB EMITTER DETAIL #2710 SUBSTITUTION
CITY STANDARD DRIP VALVE DETAIL #2709-A

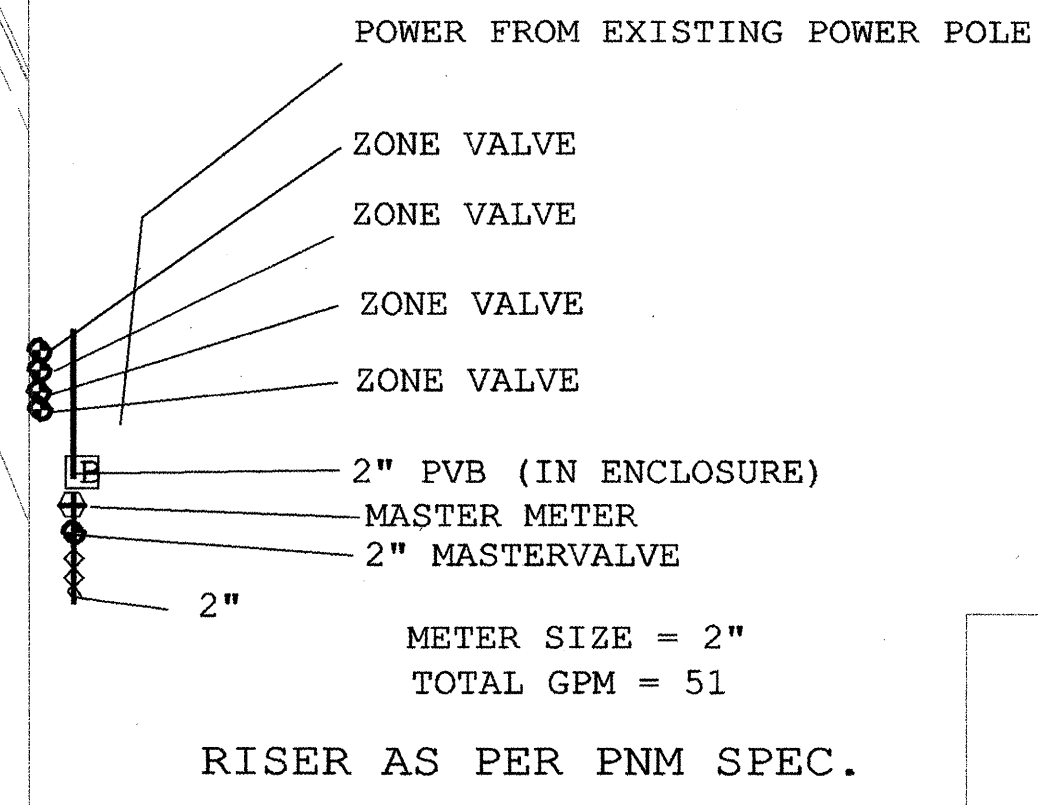
CONTROL VALVES TO BE LOCATED IN TURF AREA.

These drawings are diagrammatic.
In some cases, irrigation components may be shown outside of planting areas for clarity. The irrigation contractor shall avoid any conflicts between the irrigation system, planting materials, and above ground utilities. Irrigation pipe and wiring shall be installed in landscaped areas whenever possible.

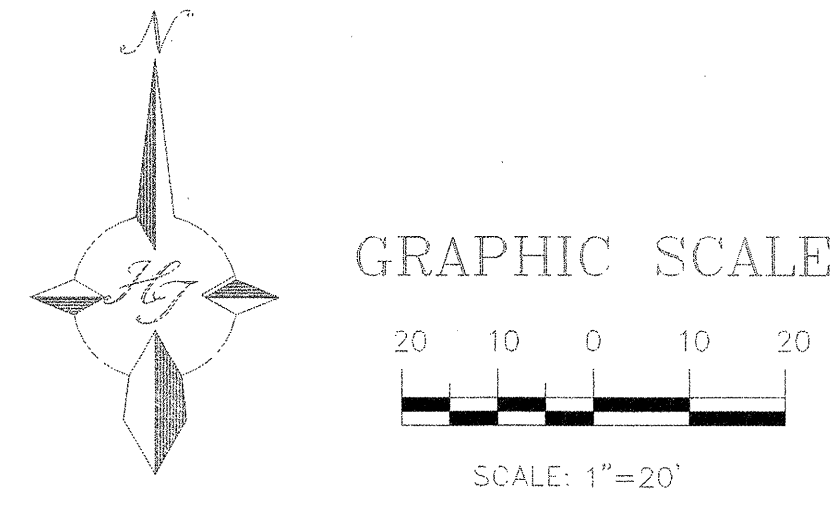
ALL TREES ARE TO BE LOCATED AT LEAST 8' AWAY FROM ALL VALVES, HEADS, AND LINES

AN AUDIT WILL BE CONDUCTED WHEN IRRIGATION INSTALLATION IS COMPLETE.

ALL PIPE SIZE WILL BE 3/4" UNLESS OTHERWISE NOTED.



METER SIZE = 2"
TOTAL GPM = 51
RISER AS PER PNM SPEC.



According to Bob Gay at NAVI, the water pressure in this area equals approx. 65-70 PSI as of 11/15/00

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CITY OF ALBUQUERQUE
TITLE: TRACT 22A TERRAZAS PARK
VENTANA RANCH
IRRIGATION PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
APPROVED NOV 21 2000 DESIGN REVIEW COMMITTEE	APPROVED NOV 21 2000 CITY ENGINEER

CITY PROJECT NO. 650991
ZONE MAP NO. B-9-Z

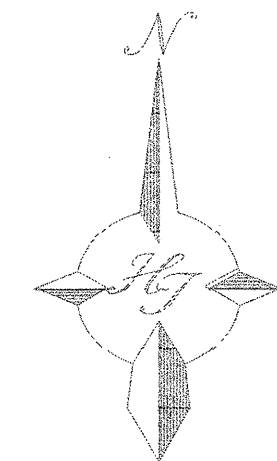
AS BUILT INFORMATION	
CONTRACTOR	DATE
INSPECTOR'S	DATE
ACCEPTANCE BY	DATE
VERIFICATION BY	DATE
DRAWINGS	DATE
CORRECTIONS BY	DATE
MICRO-FILM INFORMATION	DATE
RECORDED BY	NO.

BENCH MARKS	
ACS BRASS TABLET STAMPED "2-810 1980"	DATE
GEOGRAPHIC POSITION (NAD 1927)	DATE
N.M. STATE PLANE COORDINATES (CENTRAL ZONE) X= 357,543.73 Y= 1,527.48	DATE
GROUND TO GRID FACTOR = 0.99966354	DATE
DELTA ALPHA = -00" 16' 30"	DATE
MGVD 1929 ELEVATION = 5429.35	DATE

FIELD NOTES	
BY	DATE
NO.	DATE

ENGINEER'S SEAL	

REVISIONS	
NO.	DATE
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE



IRRIGATION LEGEND

- 2" POINT OF CONNECTION
- PVB BACKFLOW PREVENTOR W/ MASTER VALVE
FEBCO WITH HOTBOX FEB765-2 HB#2
- ZONE VALVE
RAINBIRD FEB PRS-B MODEL 150 PEB
- HUNTER I-20 3.5 NOZZLE 42' RADIUS 3.4 GPM W/ CHECK VALVE
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BUBBLERS 0.5 GPM
- RAINBIRD MULTI-OUTLET (SHRUBS) 2 POINTS PER SHRUB
XERI-BUG MODEL #XBT-10-6 1 GPH

PIPE WILL BE SIZED AS FOLLOWS:
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 30 GPM = 1 1/2"
 22 GPM = 1 1/4"
 12 GPM = 1"
 8 GPM = 3/4" (DRIP ONLY)

ALL PIPE SIZE WILL BE 3/4" UNLESS OTHERWISE NOTED.

ZONE VALVE

ZONE VALVE

ZONE VALVE

ZONE VALVE

2" PVB (IN ENCLOSURE)

MASTER METER

2" MASTERVALVE

2"

METER SIZE = 2"

TOTAL GPM = 51

RISER AS PER PNM SPEC.

PRESSURE LOSS EQUATION

0.9 PSI loss thru Meter
3.2 PSI loss thru RP
0.4 PSI loss on mainline
0.0 PSI loss thru valve
(PEB 2" at 35 GPM)
2.7 PSI loss thru SCH 40 laterals
7.2 PSI - total loss in worst
case scenario.
Pressure gain is not accounted for.

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CITY OF ALBUQUERQUE

TITLE: TRACT 22A TERRAZAS PARK
VENTANA RANCH
IRRIGATION PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	FE	MO./DAY/YR.	MO./DAY/YR.
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CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
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CITY PROJECT NO. 650991 ZONE MAP NO. B-9-7 SHEET 7 OF 9

0-9-2

907

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 SHOPPED. 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.

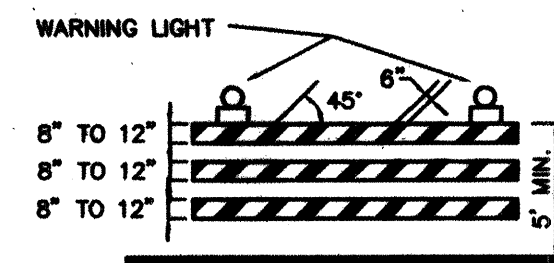
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

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

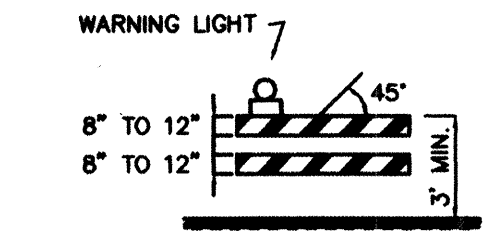
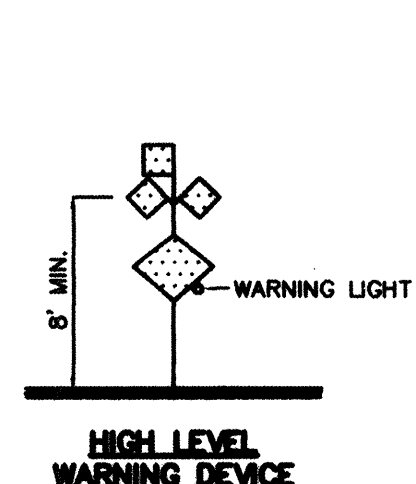
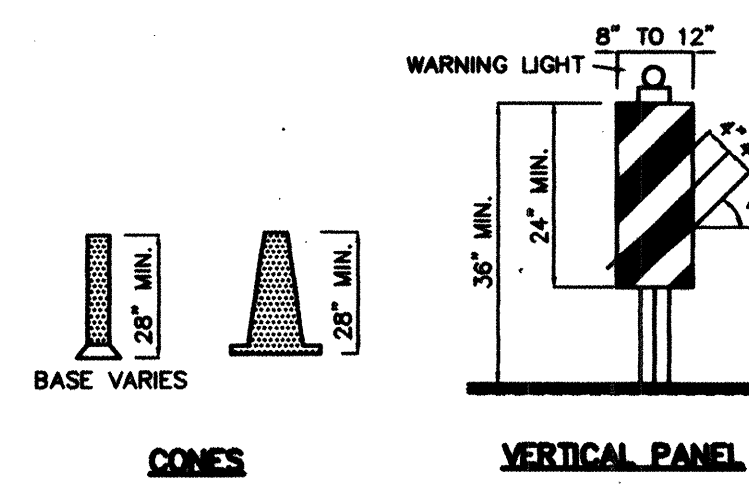
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

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. 3

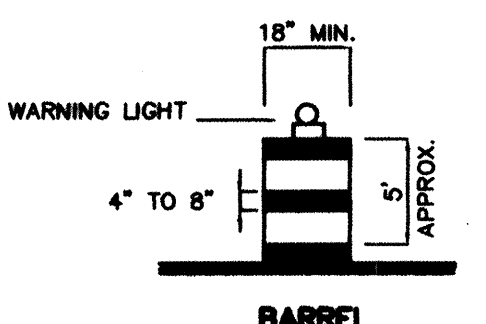
27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY. 4



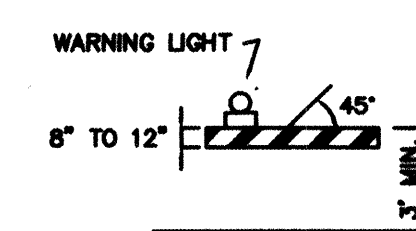
TYPE II BARRICADE



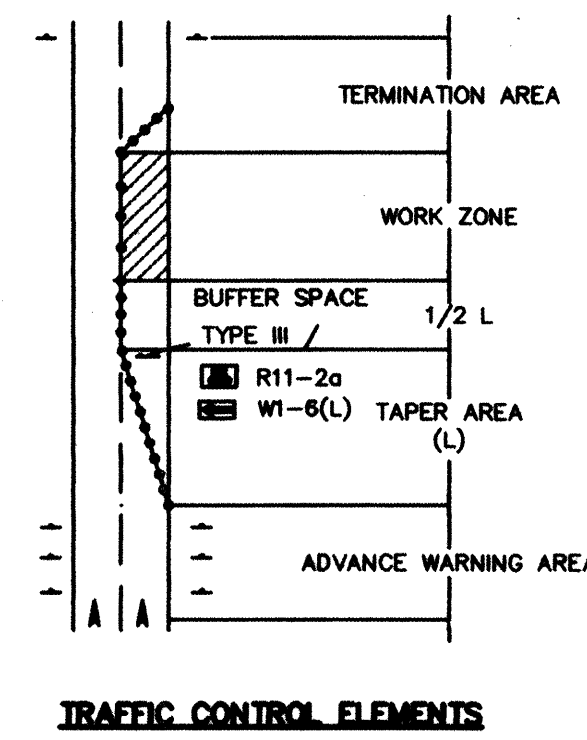
TYPE II BARRICADE COLLAPSIBLE



BARREL



TYPE I BARRICADE COLLAPSIBLE



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

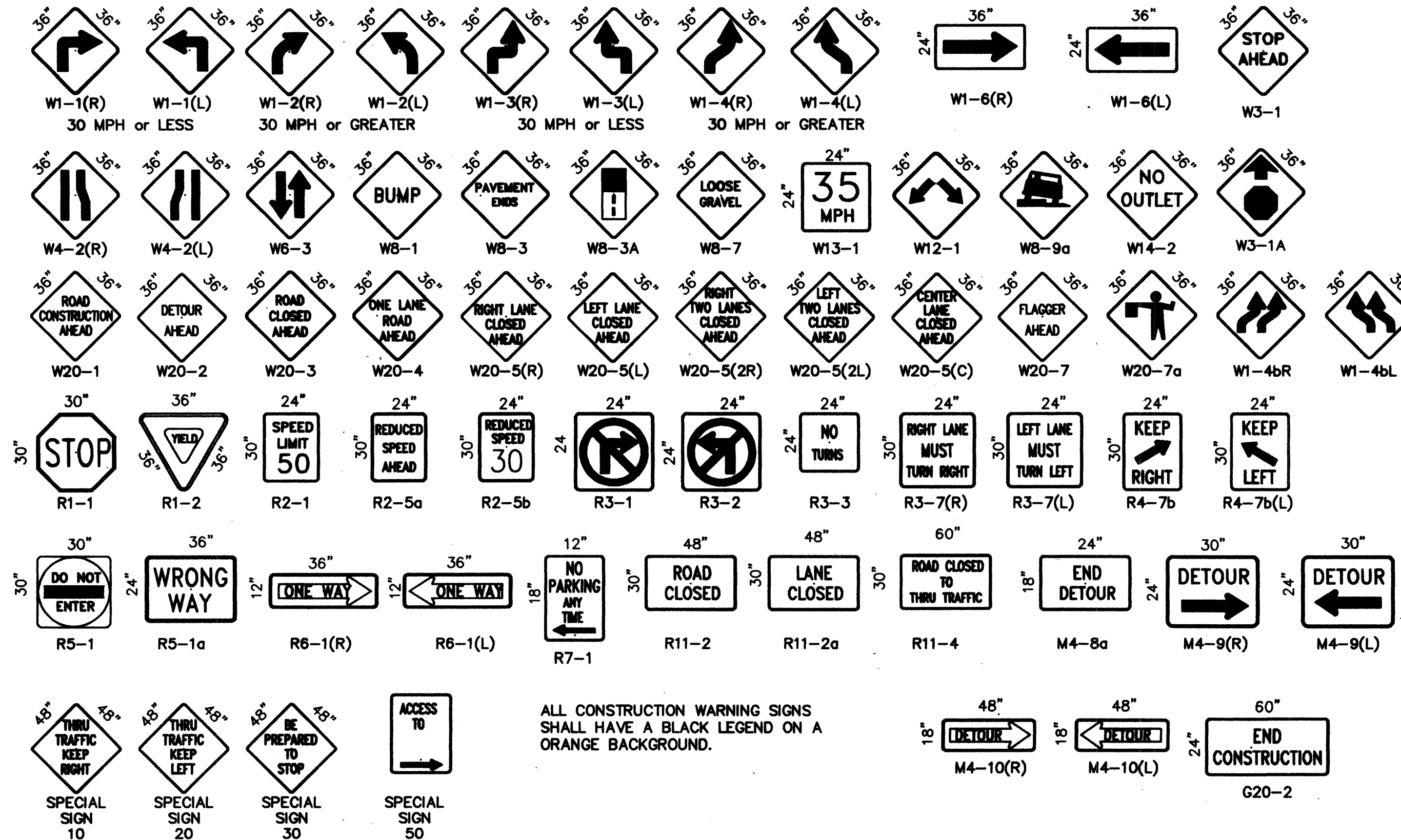
TAPER CRITERIA

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	$L = \frac{WS^2}{60}$
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	

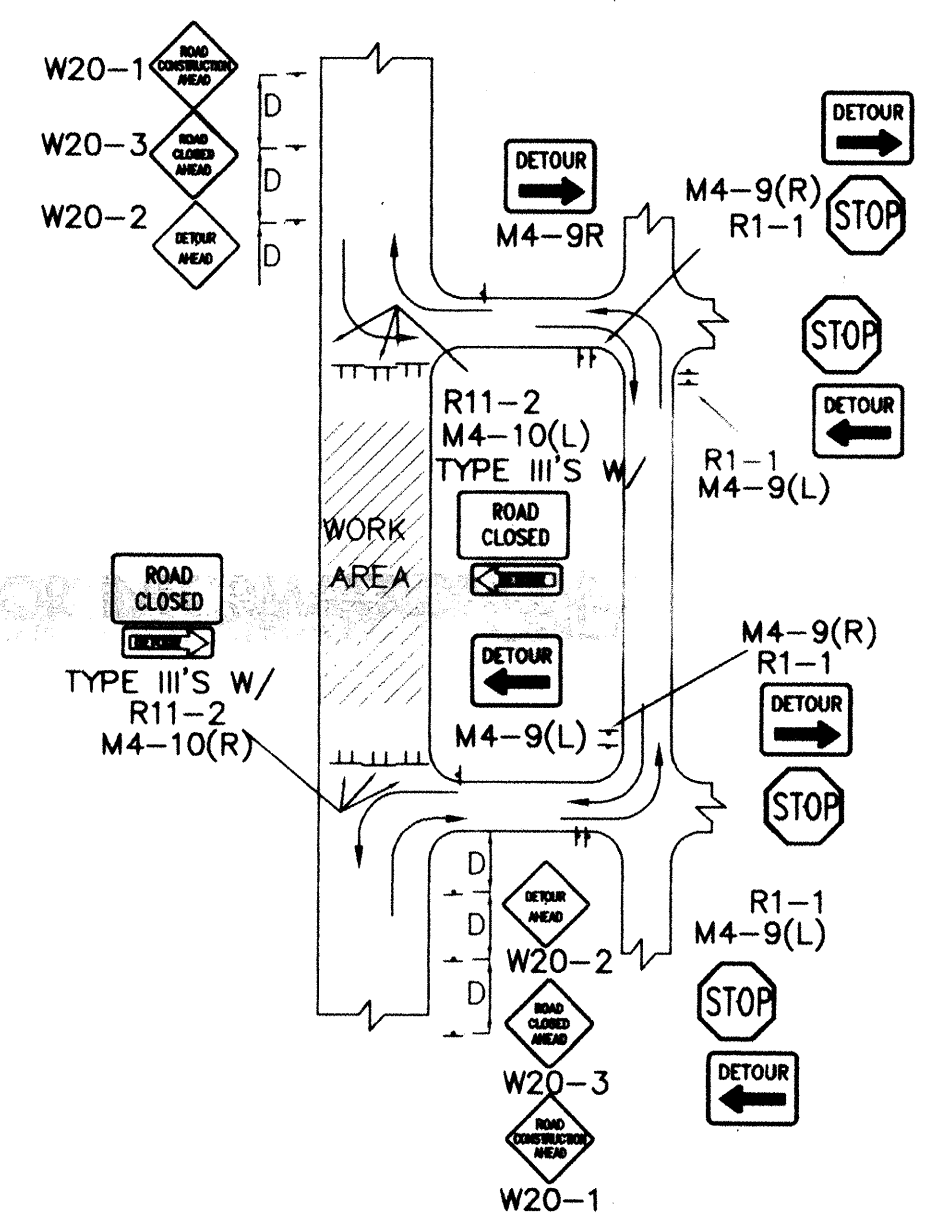
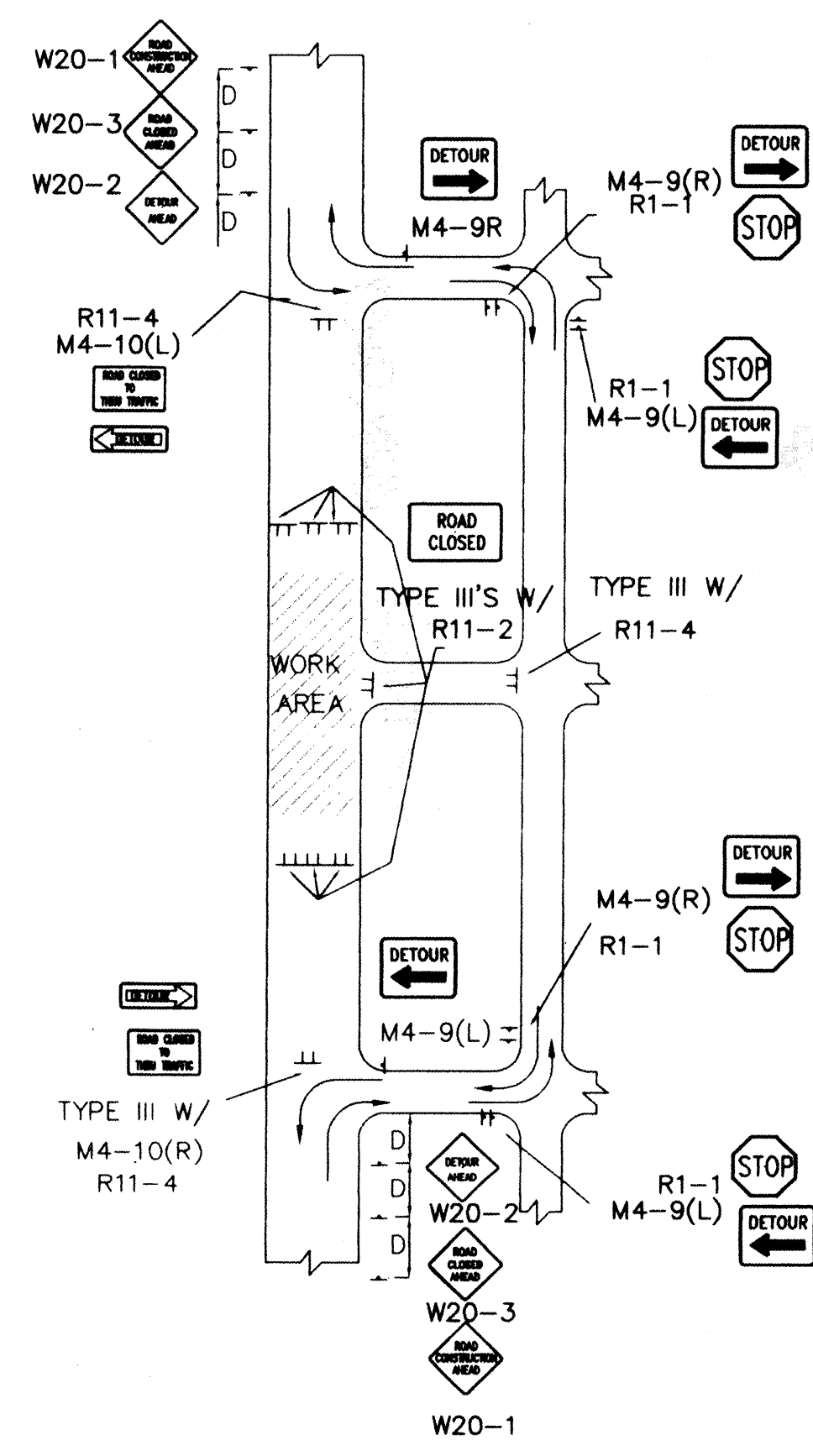
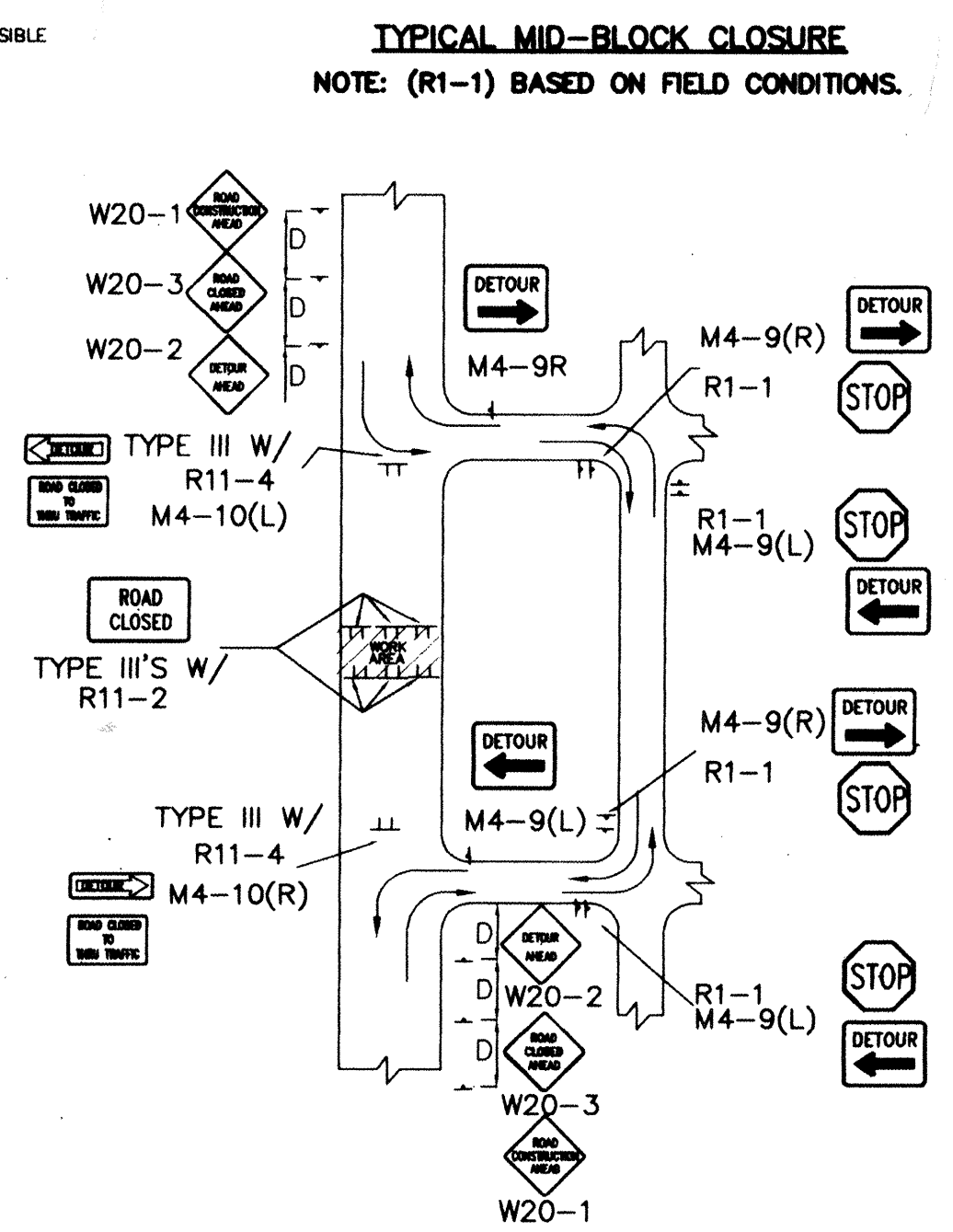
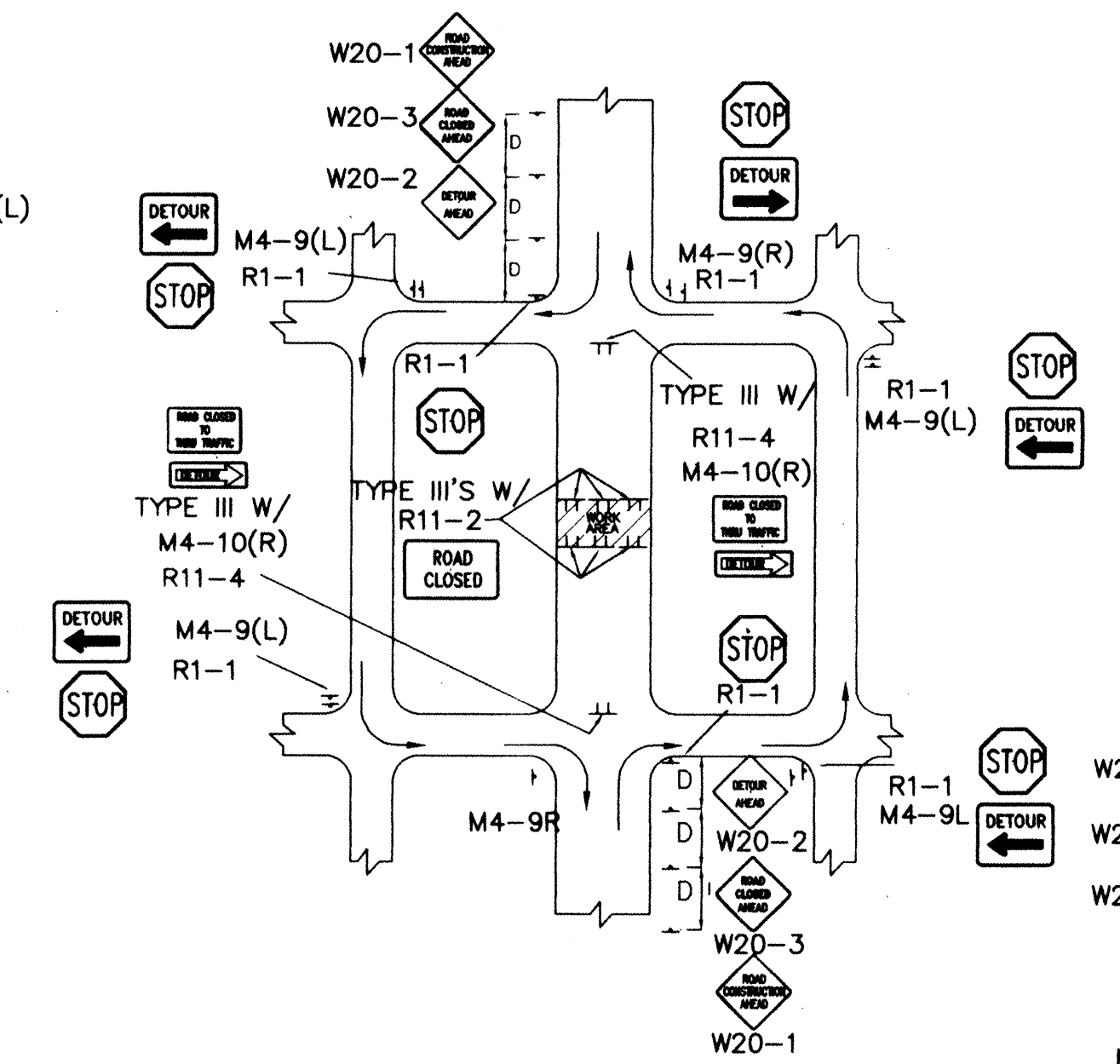
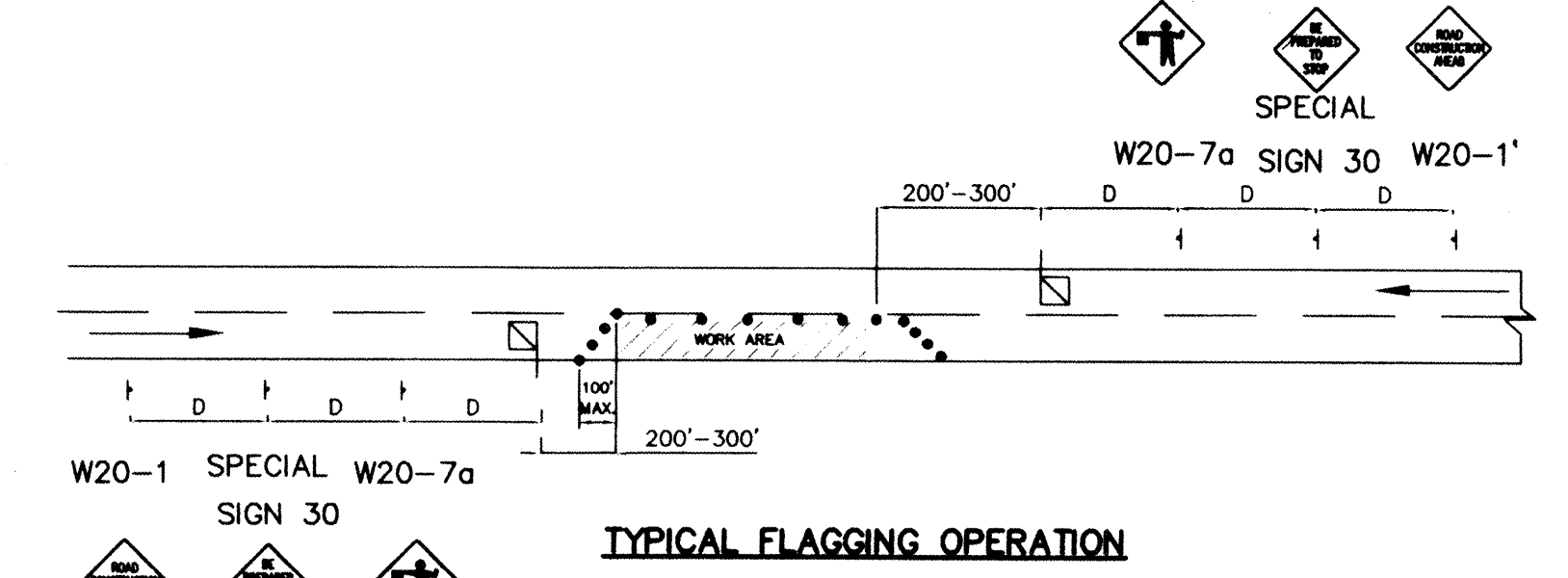
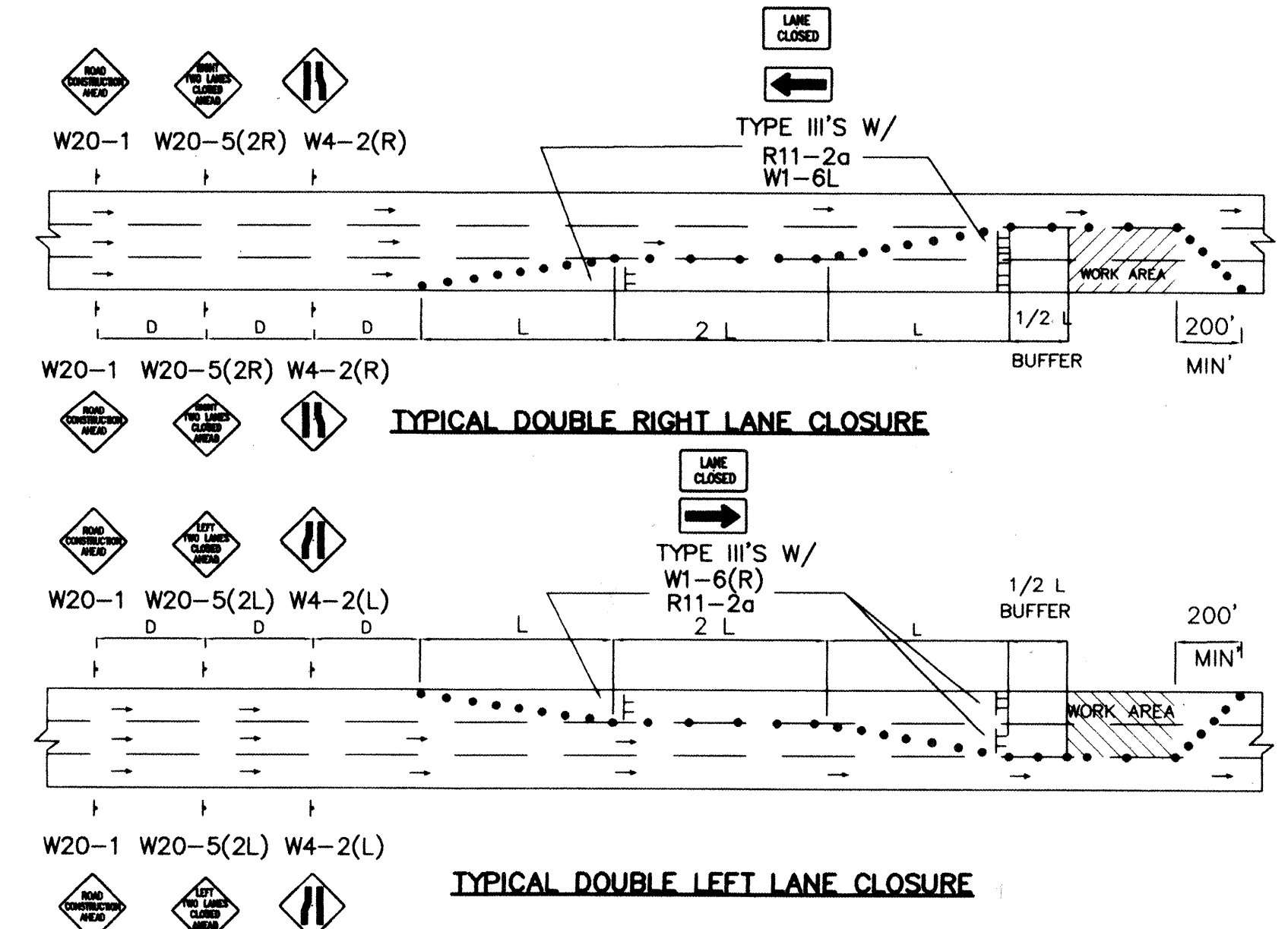
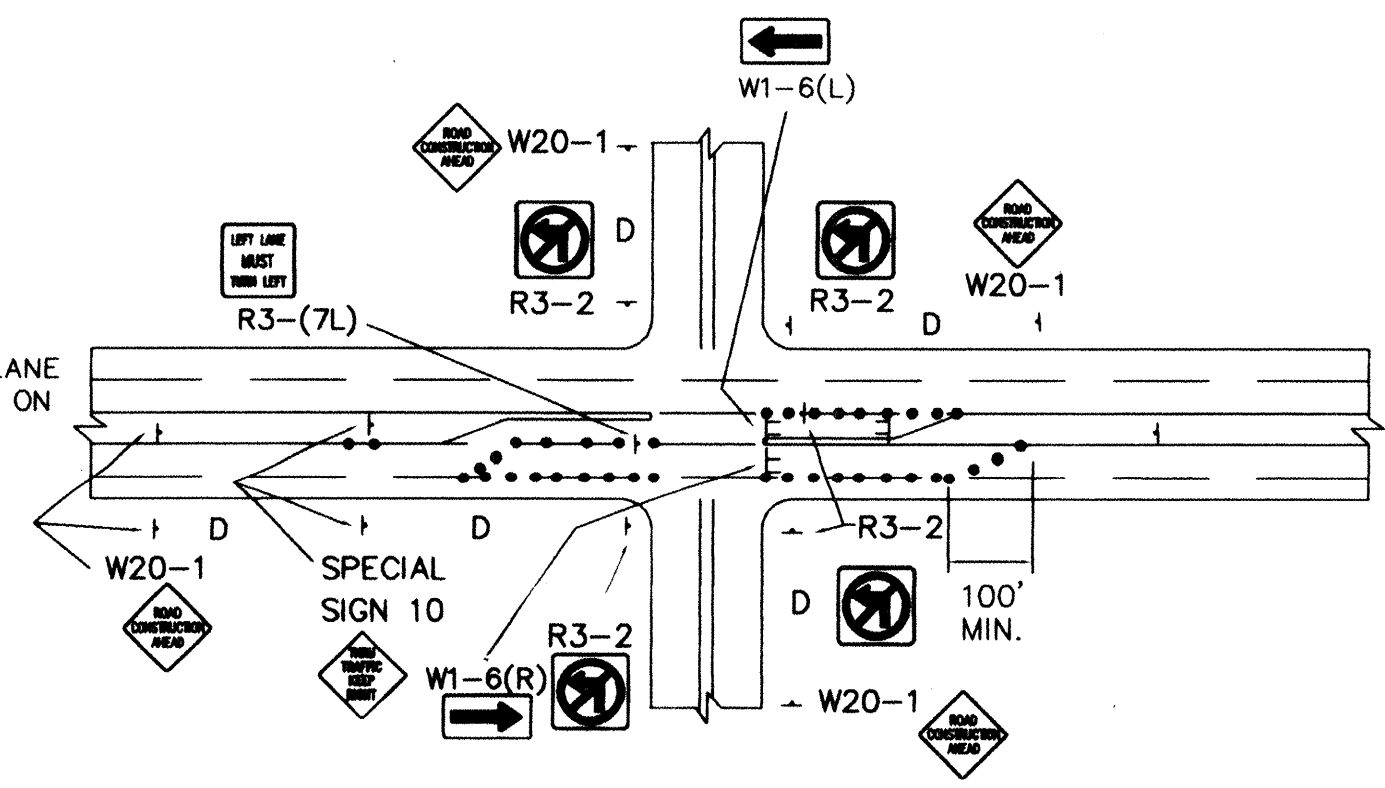
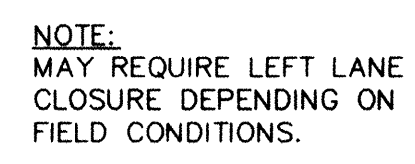
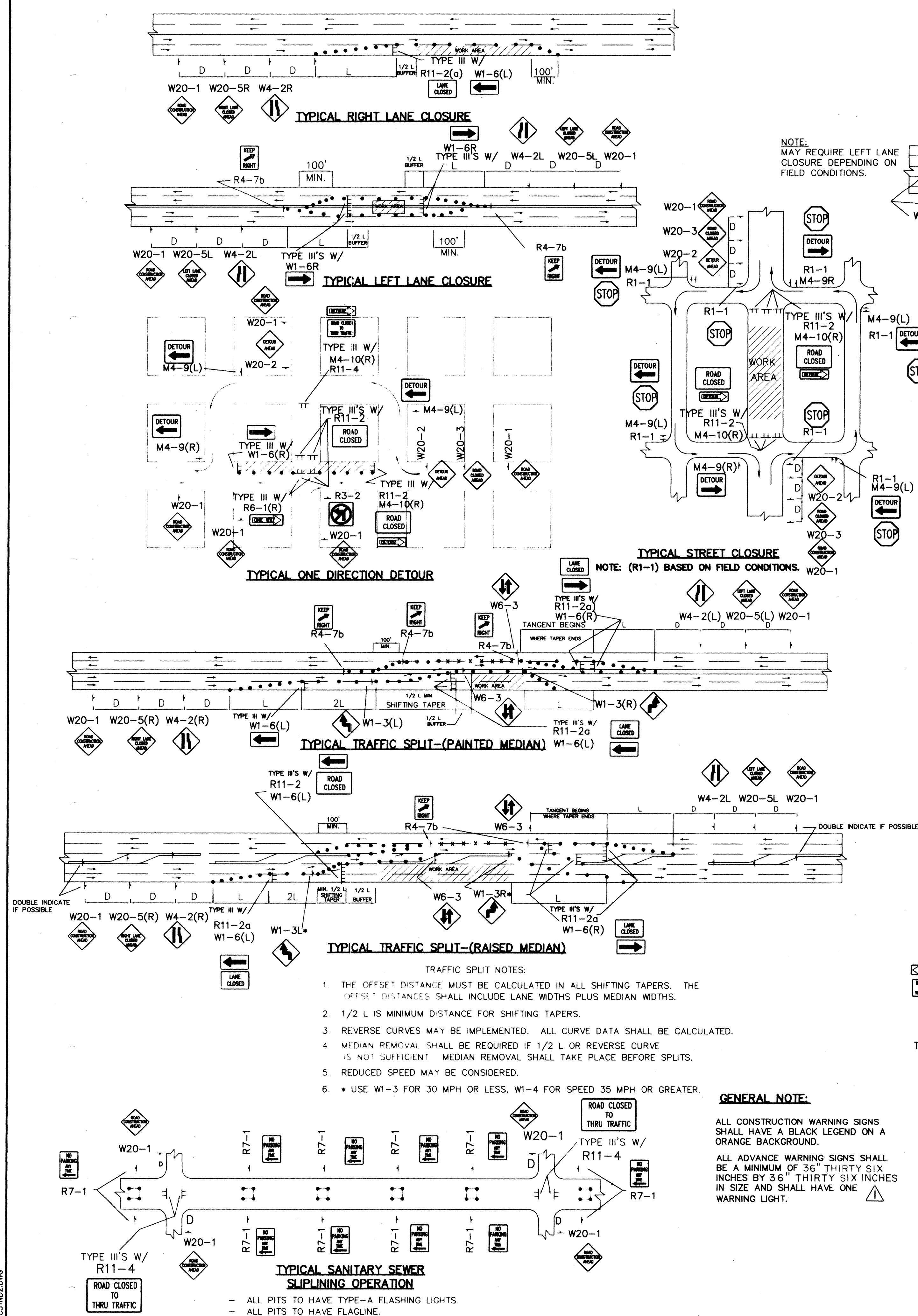
SIGN FACE DETAILS



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

FOR INFORMATION ONLY

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
COP	STP		
PROJECT NO.	MAP NO.	SHEET	OF



	MO./DAY/YR.	MO./DAY/YR.			
SHEET OF					
PROJECT GROUP	T.D.C.) & D.L.				
MENT					
UE					
CHECKED BY	DATE	DRAWN BY	DATE	DESIGNED BY	DATE
REVISIONS					
DESIGN					
NO.	DATE	REMARKS	J.D.L.		
Δ	9/24/87				
					
ENGINEER'S SEAL			SURVEY INFORMATION		
			FIELD NOTES		
			BY	DATE	
BENCH MARKS				AS-BUILT INFORMATION	
			CONTRACTOR	DATE	
			WORK	DATE	
			INSPECTED BY	DATE	
			ACCEPTANCE BY	DATE	
			TEST VERIFICATION BY	DATE	
			DRAWINGS	DATE	
			CORRECTED BY	DATE	
			MICRO-FILM INFORMATION		
			RECORDED BY	DATE	
			NO.		