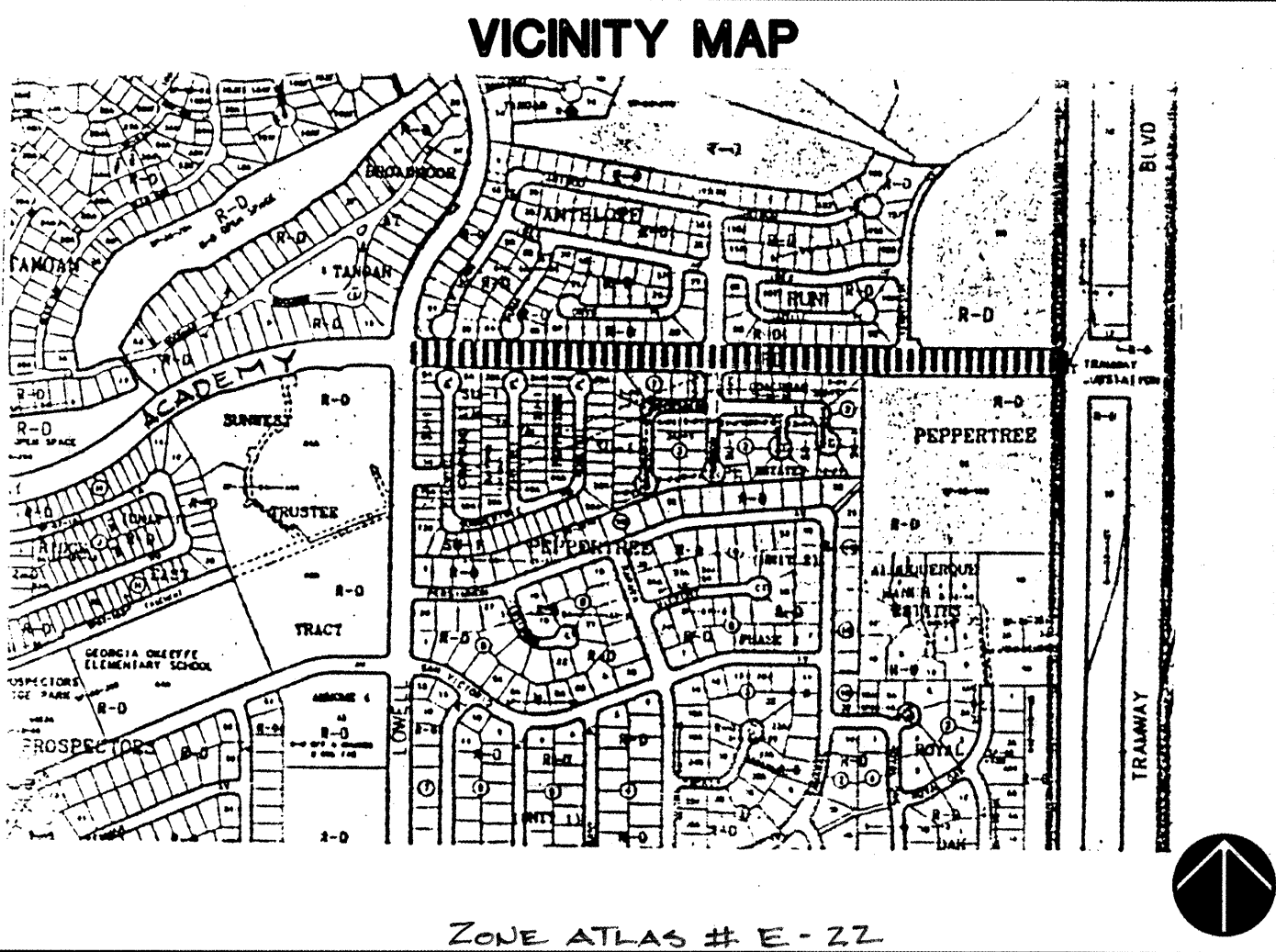


NAME: D:\ACAD-MEDIAN-COVER.DWG DATE: MAY 14, 1997 TIME: 2:30 AM PLOT 1:1 SHEET 11 OF 11

ACADEMY MEDIANS
LOWELL-TRAMWAY
LANDSCAPE IMPROVEMENTS
ALBUQUERQUE, NEW MEXICO

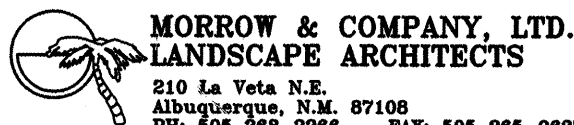


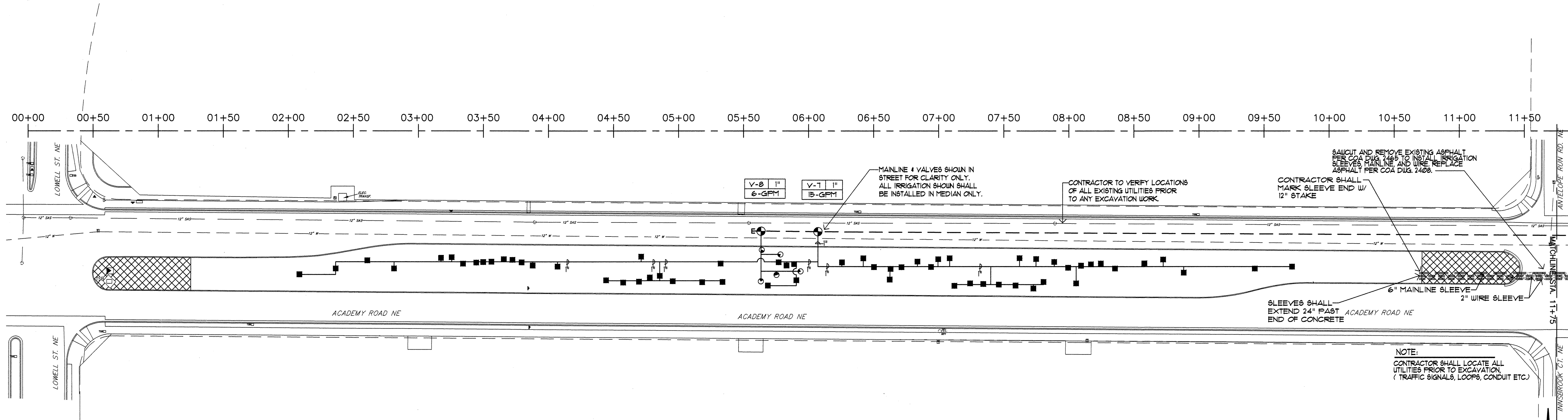
GENERAL NOTES

- ALL WORK ON THESE PLANS TO BE PERFORMED UNDER CONTRACT, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREIN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS - PUBLIC WORKS CONSTRUCTION - 1986 EDITION, AS AMENDED THROUGH UPDATE #6.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 260-1990, FOR LOCATION INFORMATION OF EXISTING UTILITIES.
- IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED ON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE LANDSCAPE ARCHITECT HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY. THEREFORE THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND LINE. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE UTILITY LINES AND FACILITIES.
- SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE LANDSCAPE ARCHITECT IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH THE MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
- 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 DURING CONSTRUCTION BY THE LANDSCAPE ARCHITECT.
- SIDEWALK AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- IF CURB IS DEPRESSIONED FOR DRIVEPAD OR HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
- ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- CONTRACTOR SHALL COORDINATE WITH THE WATER SYSTEM DIVISION FOR THE EXECUTION OF THE VALVE SHUT OFF PLAN, NOT LESS THAN FIVE (5) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT THE EXISTING PUBLIC WATER UTILITIES. ONLY WATER SYSTEM PERSONNEL SHALL OPERATE EXISTING VALVES, REFER TO SECTION 18 OF THE SPECIFICATIONS.
- CONTRACTOR SHALL NOTIFY CITY SURVEYING NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT CITY SURVEYING MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT AND PERMISSION OF CITY SURVEYING. REPLACEMENT SHALL BE DONE ONLY BY CITY SURVEYING. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT ITS OWN EXPENSE, ADJUST THE MONUMENT AND ITS COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE SPECIFICATIONS.
- FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION, A DETAILED CONSTRUCTION SCHEDULE TWO (2) DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (788-2551) PRIOR TO OCCUPYING AN INTERSECTION. CONTRACTOR MUST REFER TO SECTION 19 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
- CAUTION, THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

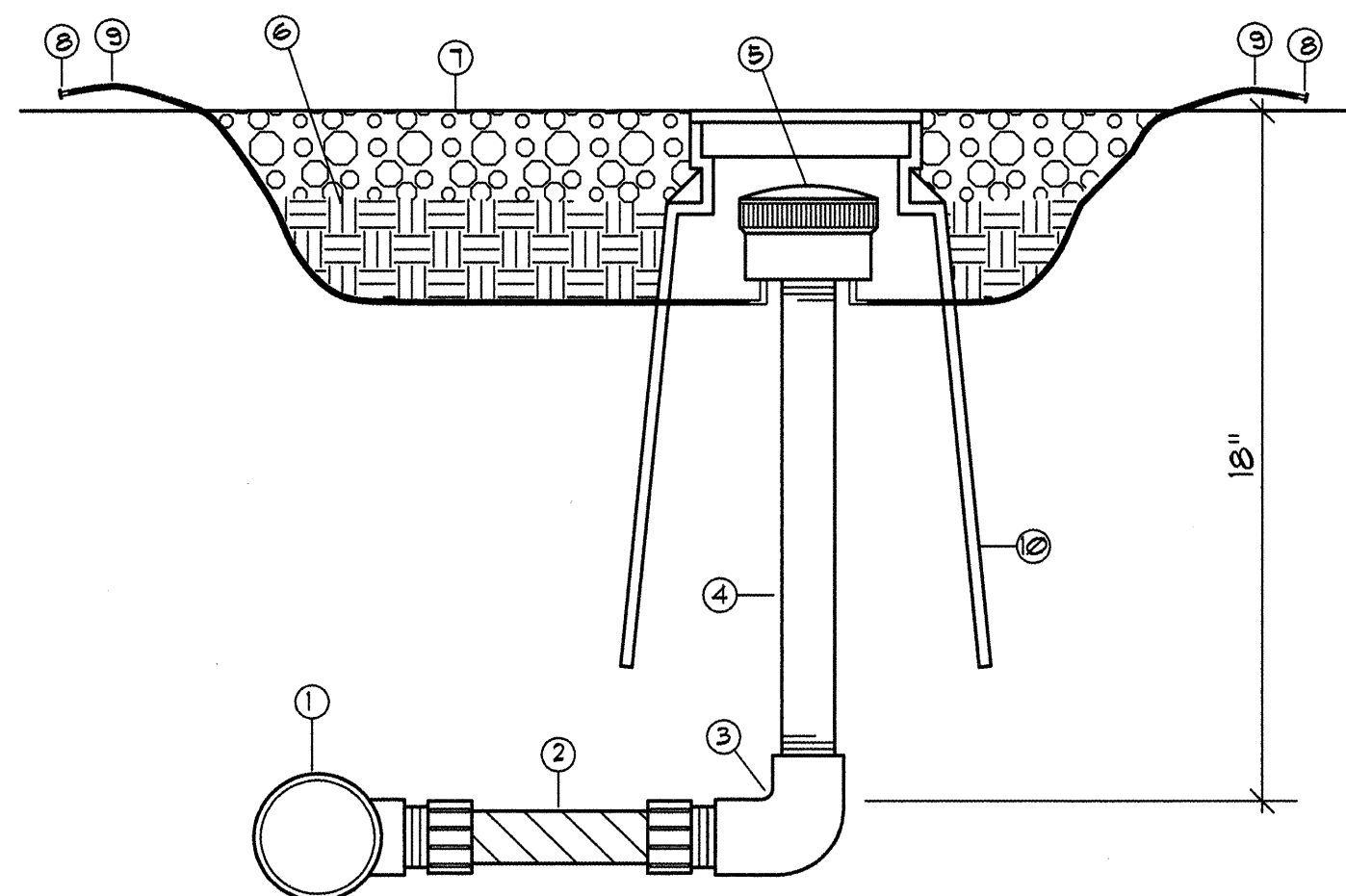
INDEX OF DRAWINGS	
SHEET TITLE	SHEET NUMBER
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IRRIGATION PLAN: MEDIAN #1	2
IRRIGATION PLAN: MEDIAN #2	3
IRRIGATION PLAN: MEDIANS #3 & #4	4
PLANTING PLAN: MEDIAN #1	5
PLANTING PLAN: MEDIAN #2	6
PLANTING PLAN: MEDIANS #3 & #4	7
DETAILS	8
TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES	9
SIGNING & CONSTRUCTION TRAFFIC CONTROL STANDARDS	10

FOR INFORMATION ONLY

	
STATE OF NEW MEXICO EMILY B. CASH NOV 28 1997 REGISTERED LANDSCAPE ARCHITECT	
REV.	SHEETS
CITY ENGINEER	DATE
USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE	APPROVALS
	ENGINEERS
	DRC Chairman
	Transportation
	Water/Wastewater
	Hydrology
	Parks - EIP
	Constr. Mngmt.
	City Project No.
	563591
	Sheet 1 Of 10



MEDIAN #1



- ① PVC LATERAL PIPE FITTING
- ② EXCALIBUR 506-YM 1/2" x 6" PVC FLEX NIPPLE
- ③ 1/2" SCH. 40 PVC THREADED ELBOW
- ④ 1/2" SCH. 80 PVC NIPPLE, LENGTH AS REQUIRED
- ⑤ RAINBIRD XERI-BIRD-8 8 MULTI-OUTLET EMISSION DEVICE WITH 8X8-20 2 GALLON PER HOUR EMITTERS SPACED EVENLY AROUND PLANT AT THE DRIP LINE OF THE PLANT. EMITTERS SHALL BE PLACED ABOVE MULCH WITH MAXIMUM 4" OF TUBING EXPOSED.
- ⑥ FINISH GRADE.
- ⑦ TOP OF GRAVEL MULCH.
- ⑧ OCTA-BUBBLER 2133-100 INSECT FLUGS, TYPICAL
- ⑨ PEPCO 220V SERIES, 1/32" VINYL TUBING, LENGTH AS REQUIRED BURIED 6" BELOW FINISH GRADE
- ⑩ RAINBIRD 88B - 8X 6" VALVE BOX

LOW FLOW BUBBLER ASSEMBLY (8 PORTS)

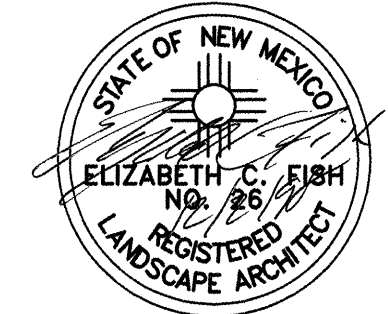
IRRIGATION LEGEND

- M** EXISTING 2" WATER
- == == == 24-VOLT WIRE SLEEVES, 1/2".
- == SLEEVE PIPING FOR LATERALS AND IRRIGATION MAIN LINE, CLASS 200 SDR-21, SOLVENT WELD PVC. SLEEVE SHALL BE TWO SIZES LARGER THAN PIPE TO BE SLEEVED, SLEEVE DEPTH FOR LATERALS SHALL BE 18", SLEEVE DEPTH FOR IRRIGATION MAIN LINE SHALL BE 28".
- ➔ MANUAL VALVE ASSEMBLY MATCO 514 SERIES BRASS GATE VALVE WITH CROSS HANDLE
SIZE 1" _____ FER C.O.A. DETAIL 17101
- ⚡ BACKFLOW PREVENTER ASSEMBLY, FIBCO F-825-Y1" SERIES 1" REDUCED PRESSURE
BACKFLOW PREVENTER WITH MASTER METER-1" FLOW METER MASTER VALVE UNIT IN 4BI HOT BOX
ENCLOSURE _____ FER C.O.A. DETAIL 17101-A
- IRRIGATION MAINLINE SGC 40 BELL END, SOLVENT WELD PVC, SIZE 2", 28" DEPTH OF BURY.
- ⚙ AUTOMATIC VALVE ASSEMBLY, TORO 952 SERIES PLASTIC BODY AUTOMATIC VALVE ASSEMBLY WITH FLOW CONTROL AND MANUAL ACTUATION, SIZE AS SHOWN ON PLAN, FER C.O.A. DETAIL 17103
- LATERAL PIPING SGC 40 BELL END, SOLVENT WELD PVC, 18" DEPTH OF BURY, ALL LATERAL PIPING 3/4" UNLESS OTHERWISE INDICATED ON PLAN.
- C SOLVENT WELD CAP, SDC 40 PVC SIZE.
- Ⓢ IRRIGATION CONTROLLER - EXISTING MIR 5,000.
- RAINBIRD XKB-80 XERI-BIRD 8 OUTLET EMISSION DEVICE WITH XKB-20 2 GALLON PER HOUR EMITTERS SEE DETAIL A/2.
- FIXED SPRAY POP-UP ASSEMBLIES TORO 510-Z-12P 12" POP-UP BODY WITH STREAM SPRAY NOZZLES AS FOLLOWS: _____ FER C.O.A. DETAIL 17103
- | NOZZLE | AREA OF COVERAGE | GPM | Rg |
|-----------|------------------|-----|----|
| 10-550-PC | 10' RADIUS | 125 | 50 |
| 10-55H-PC | 10' RADIUS | 155 | 50 |
| 10-55F-PC | 10' RADIUS | 210 | 50 |

EMITTER SCHEDULE

TREES: 4EA @ 2GPH (XB-20)
SHRUBS: 2EA @ 2GPH (XB-20)

SEE SHEET 3 FOR IRRIGATION NOTES



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LANDSCAPE ARCHITECTS
 210 La Veta N.E.
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 PH: 505 268-2266 FAX: 505 265-9637

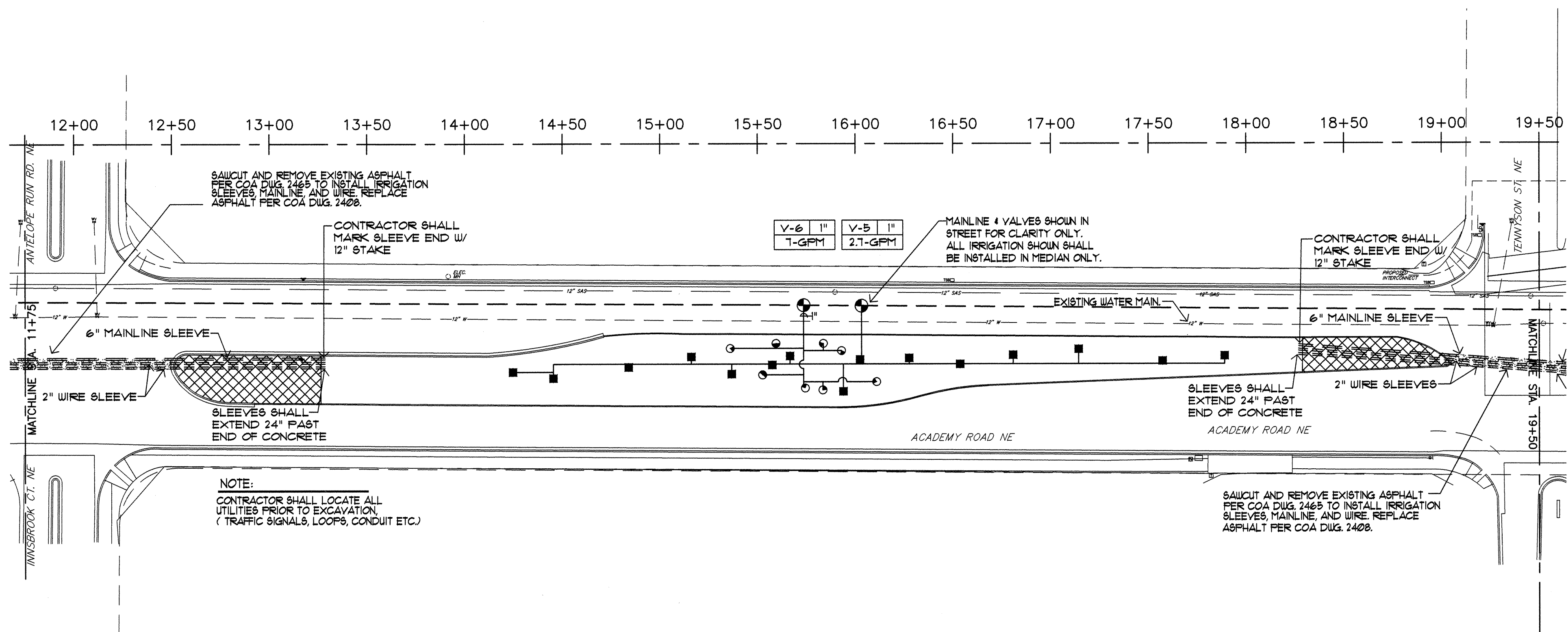
CITY OF ALBUQUERQUE
PARKS AND GENERAL SERVICES
DESIGN & DEVELOPMENT

TITLE: ACADEMY MEDIANS:
LOWELL - TRAMWAY
IRRIGATION PLAN - MEDIAN #1

Design Review Committee APPROVED JAN 20 1989 DESIGN REVIEW COMMITTEE	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.

CITY PROJECT NO. 563591	ZONE MAP NO. E-22-Z	SHEET 2	OF 10
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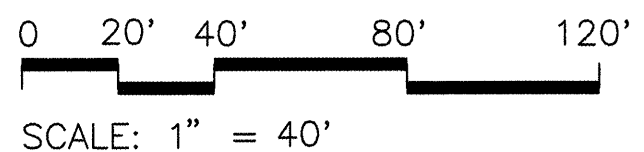
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MEDIAN #2

IRRIGATION NOTES

1. ALL VALVE BOXES SHALL BE INSTALLED AT A MINIMUM OF 12" FROM CURBS.
2. ALL VALVE BOXES SHALL BE SUPPORTED BY CINDER BLOCKS, (MINIMUM 4 PER VALVE BOX). INSTALL BLOCKS IN A MANNER WHICH WILL PREVENT CONTACT WITH PIPING, WIRES, VALVES, ETC. ALL CMU BLOCKS SHALL BE SOLID.
3. MARK ALL 24-VOLT WIRE ENDS WITH 3M STD-09 WIRE MARKER TAPE AT THE VALVE BOX AND CONTROLLER LOCATIONS.
4. ALL 24-VOLT WIRE SHALL BE MARKED WITH A 3" WIDE RED MARKER TAPE AND MARKED "WARNING -ELECTRICAL". LAY MARKER TAPE HORIZONTALLY 6" ABOVE WIRE.
5. 24-VOLT WIRE SHALL BE IN COMMON TRENCH WITH MAIN LINE AND SHALL HAVE SEPARATE SLEEVE WHERE CROSSING ALL HARD CONSTRUCTION. ALL SLEEVE PIPING FOR 24-VOLT WIRE SHALL BE 2" CLASS 200 PVC.
6. WHERE PROPOSED PIPING CROSSES EXISTING ASPHALT AND/OR CONCRETE, THE CONTRACTOR SHALL SAW-CUT, REMOVE AND PROPERLY DISPOSE OF WASTE, EXCAVATE, INSTALL SLEEVE PIPING, MAINS AND LATERALS, BACKFILL AND COMPACT TO 95%. CONTRACTOR SHALL REPLACE ASPHALT AND/OR CONCRETE TO MATCH EXISTING.
7. THE CONTRACTOR SHALL ADJUST ALL VALVES, BUBBLERS, AND SPRINKLERS FOR OPTIMUM COVERAGE, AND SHALL PROVIDE AND INSTALL NOZZLES OTHER THAN THOSE SPECIFIED AS INSTRUCTED BY THE LANDSCAPE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
8. CONTRACTOR SHALL INSTALL ALL BUBBLERS ON HIGH SIDE OF TREE & SHRUB WELLS.
9. CONTRACTOR SHALL TAPE CLOSED ALL SLEEVE PIPE OPENINGS USING DUCT TAPE TO PREVENT DEBRIS FROM ENTERING SLEEVES.
10. ALL EXISTING WATER MAIN LINE LOCATIONS ARE SCHEMATIC. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO POT HOLE AND FIELD CHECK TO DETERMINE ACTUAL LOCATIONS AS AN INCIDENTAL REQUIREMENT TO THE CONSTRUCTION CONTRACT.
11. LOCATIONS OF ALL SLEEVE PIPING SHALL BE VERIFIED BY THE CONTRACTOR. EXCAVATION, POT-HOLING, ASSOCIATED WORK, MATERIALS, LABOR, ETC., SHALL BE THE RESPONSIBILITY OF CONTRACTOR. NO ADDITIONAL PAYMENT WILL BE MADE TO THE CONTRACTOR FOR LOCATING SLEEVES.
12. THIS SYSTEM WAS DESIGNED AT 50 PSI STATIC WATER PRESSURE AT THE HEAD AND 22 GPM. THE CONTRACTOR SHALL VERIFY THE ACTUAL STATIC WATER PRESSURE PRIOR TO CONSTRUCTION AND INFORM THE LANDSCAPE ARCHITECT IN WRITING OF THE RESULTS. A DETERMINATION WILL BE MADE BY THE LANDSCAPE ARCHITECT AS TO WHAT DESIGN MODIFICATIONS MAY NEED TO BE RESOLVED BEFORE ACTUAL CONSTRUCTION BEGINS.
13. HOTBOX ENCLOSURE SHALL BE BEIGE IN COLOR AS MANUFACTURED BY HOTBOX.



IRRIGATION LEGEND

- [M] EXISTING 2" METER
- == 24-VOLT WIRE SLEEVES, SIZE 2"
- == SLEEVE PIPING FOR LATERALS AND IRRIGATION MAIN LINE, CLASS 200 SDR-21, SOLVENT WELD PVC. SLEEVE SHALL BE TWO SIZES LARGER THAN PIPE TO BE SLEEVED. SLEEVE DEPTH FOR LATERALS SHALL BE 18". SLEEVE DEPTH FOR IRRIGATION MAIN LINE SHALL BE 28".
- MANUAL VALVE ASSEMBLY MATCO 514 SERIES BRASS GATE VALVE WITH CROSS HANDLE SIZE 1" PER C.O.A. DETAIL #2101
- BACKFLOW PREVENTER ASSEMBLY, FERCO F-825-Y1" SERIES 1" REDUCED PRESSURE BACKFLOW PREVENTER WITH MASTER METER-1" FLOW METER MASTER VALVE UNIT IN 4"BI HOT BOX ENCLOSURE PER C.O.A. DETAIL #2101-A
- IRRIGATION MAINLINE SCH. 40 BELL END, SOLVENT WELD PVC, SIZE 2", 28" DEPTH OF BURY.
- AUTOMATIC VALVE ASSEMBLY, TORO #252 SERIES PLASTIC BODY AUTOMATIC VALVE ASSEMBLY WITH FLOW CONTROL AND MANUAL ACTIVATION, SIZE AS SHOWN ON PLAN PER C.O.A. DETAIL #2103
- LATERAL PIPING SCH. 40, BELL END, SOLVENT WELD PVC, 18" DEPTH OF BURY. ALL LATERAL PIPING 3/4" UNLESS OTHERWISE INDICATED ON PLAN.
- SOLVENT WELD CAP, SCH. 40 PVC SIZE.
- IRRIGATION CONTROLLER - EXISTING MIR 5000.
- RAINBIRD XB-80 XERI-BIRD 8 OUTLET EMISSION DEVICE WITH XB-20 2 GALLON PER HOUR EMITTERS SEE DETAIL A/2.
- FIXED SPRAY POP-UP ASSEMBLIES TORO 510-Z-12P 12" POP-UP BODY WITH STREAM SPRAY NOZZLES AS FOLLOWS: PER C.O.A. DETAIL #2109
 - NOZZLE AREA OF COVERAGE GPM PSI
 - 10-55Q-PC 10" RADIUS 123 50
 - 10-55H-PC 10" RADIUS 155 50
 - 10-55F-PC 10" RADIUS 210 50

EMITTER SCHEDULE

TREES: 4EA @ 2GPH (XB-20)
SHRUBS: 2EA @ 2GPH (XB-20)

FOR INFORMATION ONLY

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CITY OF ALBUQUERQUE PARKS AND GENERAL SERVICES DESIGN & DEVELOPMENT			
TITLE: ACADEMY MEDIANS: LOWELL - TRAMWAY IRRIGATION PLAN - MEDIAN #2			
Design Review Committee APPROVED JAN 20 1999 DESIGN REVIEW COMMITTEE	City Engineer Approval	Mo/Day/Yr.	
		Mo/Day/Yr.	
CITY PROJECT NO. 663591	ZONE MAP NO. E-22-Z	SHEET 3	OF 10

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	BY	NO.	BY	REVISIONS	BY
INSPECTOR	DATE					DESIGN	
FIELD	DATE						
VERIFICATION BY	DATE						
CONTRACTOR	DATE						
RECORDED BY	DATE						
NO.							



0 20' 40' 80' 120'

FOR INFORMATION ONLY

EXISTING 2" WATER

== 24-VOLT WIRE SLEEVES, SIZE 2".

== SLEEVE PIPING FOR LATERALS AND IRRIGATION MAIN LINE, CLASS 200 SDR-21 SOLVENT WELD PVC. SLEEVE SHALL BE TWO SIZES LARGER THAN PIPE TO BE SLEEVED. SLEEVE DEPTH FOR LATERALS SHALL BE 18". SLEEVE DEPTH FOR IRRIGATION MAIN LINE SHALL BE 28".

MANUAL VALVE ASSEMBLY MATCO B14 SERIES BRASS GATE VALVE WITH CROSS HANDLE
SIZE 1" PER C.O.A. DETAIL 2701

BACKFLOW PREVENTER ASSEMBLY, FEBCO F-825-Y1 SERIES 1" REDUCED PRESSURE
BACKFLOW PREVENTER WITH MASTER METER 11" FLOW METER MASTER VALVE UNIT IN 4"BI HOT BOX
ENCLOSURE PER C.O.A. DETAIL 2701-A

== IRRIGATION MAINLINE SCH. 40 BELL END, SOLVENT WELD PVC, SIZE 2", 28" DEPTH OF BURY.

AUTOMATIC WAVE ASSEMBLY, TORO 952 SERIES PLASTIC BODY AUTOMATIC WAVE ASSEMBLY WITH
FLOW CONTROL AND MANUAL ACTIVATION, SIZE AS SHOWN ON PLAN. PER C.O.A. DETAIL 2703

LATERAL PIPING SCH. 40 BELL END, SOLVENT WELD PVC, 18" DEPTH OF BURY. ALL LATERAL PIPING
3/4" UNLESS OTHERWISE INDICATED ON PLAN.

C IRRIGATION WELD CAP, SCH. 40 PVC SIZE.

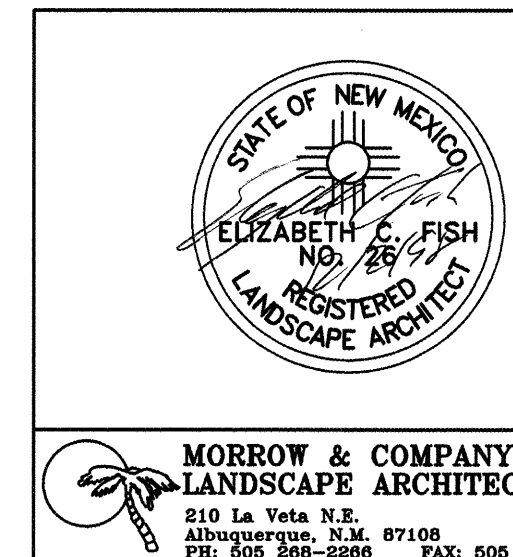
IRRIGATION CONTROLLER - EXISTING MIR 3000.

RAINBIRD XB-20 XERI-BIRD 8 OUTLET EMISSION DEVICE WITH XB-20 2 GALLON PER HOUR
EMITTERS SEE DETAIL A2.

FIXED SPRAY POP-UP ASSEMBLIES TORO 510-Z-12P 12" POP-UP BODY WITH STREAM 1 SPRAY
NOZZLES AS FOLLOWS: PER C.O.A. DETAIL 2703

NOZZLE	AREA OF COVERAGE	GPM	F51
10-550-PC	10' RADIUS	123	50
10-554-PC	10' RADIUS	135	50
10-557-PC	10' RADIUS	210	50

TREES: 4EA @ 2GPH (XB-20)
SHRUBS: 2EA @ 2GPH (XB-20)



CITY OF ALBUQUERQUE
PARKS AND GENERAL SERVICES
DESIGN & DEVELOPMENT

TITLE: ACADEMY MEDIANS:
LOWELL - TRAMWAY
IRRIGATION PLAN - MEDIANS #3 & #4

Design Review Committee

APPROVE

JAN 20 1999

**DESIGN
REVIEW COMMITTEE**

City Engineer Approval

Last Design Updates

	M

Mo/Da

ay/yg

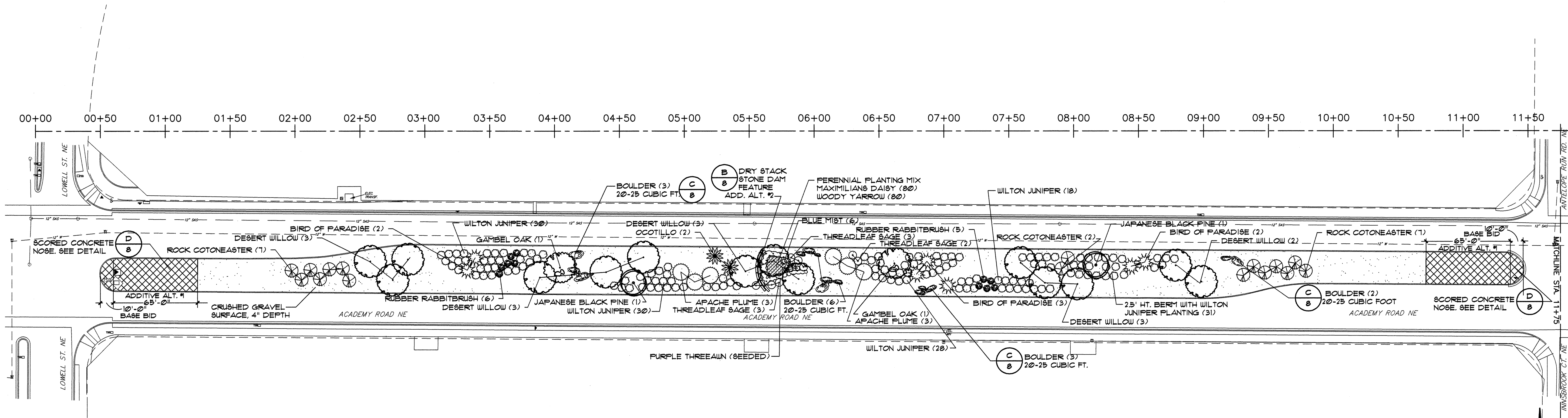
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CITY PROJECT NO.
563591

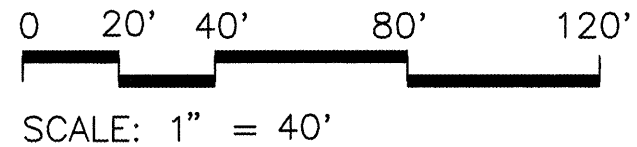
ZONE MAP NO.
E-22-Z

0.	SHEET	OF	4	10
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NAME: D:\ACAD-MEDIAN-PLANT.DWG DATE: AUGUST 11, 1997 TIME: 11:15 AM PLOT 1:1 SHEET# SFG/KRB



MEDIAN #1



PLANT LEGEND				
COMMON NAME	BOTANICAL NAME	QUANTITY	SIZE	MATURE SIZE / COMMENTS
<u>TREES</u>				
Desert Willow	Chilopsis linearis	26	15 gallon	25' ht., 20' spd.
Gambel Oak	Quercus gambelii	10	15 gal. multi-stem	25' ht., 20' spd.
Japanese Black Pine	Pinus thunbergiana	5	4'-6' hgt.	20' ht., 15' spd.
<u>SHRUBS</u>				
Apache Plume	Fallugia paradoxa	6	5 gallon	8' ht. 4' spd.
Bird of Paradise	Caesalpinia gilliesii	12	5 gallon	12' ht. 4' spd.
Blue Mist	Caryopteris clandonensis	6	1 gallon	3' ht. 4' spd.
Coyote Willow	Salix exigua	8	1 gallon	12' ht. and spd.
Ocotillo	Fouquieria splendens	4	1 gallon	8' ht. 4' 6' spd.
Rock Cotoneaster	Cotoneaster horizontalis	43	1 gallon	3' ht. 4' spd.
Rubber Rabbitbrush	Chrysothamnus nauseosus	29	5 gallon	5' ht. 4' spd.
Threadleaf Sage	Artemisia filifolia	8	5 gallon	3' ht. 4' spd.
<u>GROUNDCOVERS</u>				
Wilton Juniper	Juniperus horizontalis 'Wiltonii'	132	1 gal.	2' ht., 6' spd.
<u>PERENNIAL COLOR</u>				
Maximilian's Daisy	Helianthus maximiliani	260 s.f.	4" pots	-----
Woolly Yarrow	Achillea spp.	260 s.f.	4" pots	-----
<u>ORNAMENTAL GRASSES</u>				
Purple Threeawn	Aristida purpurea	430 s.f.	8 lbs pls/1000 s.f.	seed
Sand Dropseed	Sporobolus cryptandrus	1859 s.f.	8 lbs pls/1000 s.f.	seed

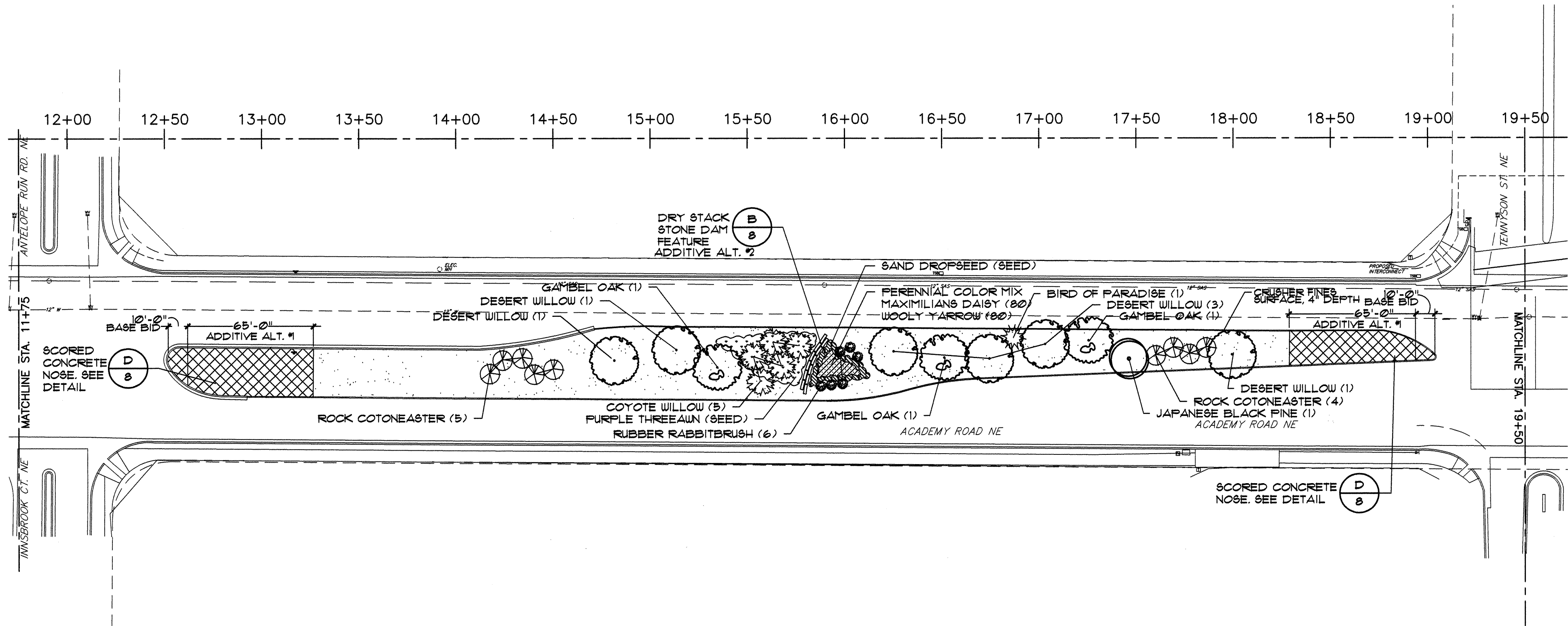
PLANTING/CONSTRUCTION NOTES	
1.	IN CASE OF DISCREPANCY IN PLANT QUANTITIES SHOWN ON THE PLANT LIST AND THOSE SHOWN ON THE PLANTING PLANS, THE QUANTITIES SHOWN ON THE PLANS SHALL GOVERN.
2.	QUANTITIES SHOWN ON THE PLANT LIST ARE ESTIMATES ONLY. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO BID AND INSTALLATION. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY DISCREPANCIES IN QUANTITIES BETWEEN THE PLANTING PLAN AND THE PLANT LIST.
3.	A 4" DEPTH OF 'SANTA ANA TAN' CRUSHED GRAVEL SHALL BE INSTALLED THROUGHOUT ALL SHRUB BEDS WITH FILTER FABRIC UNDERNEATH. FILTER FABRIC SHALL BE 4 OZ. NEEDLE PUNCHED POLYPROPYLENE (DEWITT OR EQUIVALENT). OVERLAP ENDS 3". TURN DOWN PERIMETER EDGES 6".
4.	THE CONTRACTOR SHALL PRUNE LOWER BRANCHES OF DECIDUOUS TREES TO 6 FEET ABOVE FINISH GRADE.
5.	ALL EXISTING IMPROVEMENTS ARE TO REMAIN, UNLESS SPECIFICALLY NOTED TO BE REMOVED. CONTRACTOR SHALL REPAIR ANY CONTRACTOR-CAUSED DAMAGE TO EXISTING IMPROVEMENTS TO THE SATISFACTION OF THE OWNER OWNER AT THE CONTRACTOR'S EXPENSE.
6.	ALL PAVEMENT CUTS SHALL BE REPAIRED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD DUG 2469.
7.	BOULDERS SHALL BE MOSS STONE. MINIMUM SIZE 20 CUBIC FT., INSTALLED PER DETAIL C/8.
8.	PLANTS SHALL BE INSTALLED PER C.O.A. DETAILS 2718 AND 2719.

FOR INFORMATION ONLY



CITY OF ALBUQUERQUE PARKS AND GENERAL SERVICES DESIGN & DEVELOPMENT			
TITLE: ACADEMY MEDIANS: LOWELL - TRAMWAY PLANTING PLAN - MEDIAN #1			
APPROVED DESIGN REVIEW COMMITTEE JAN 20 1999	City Engineer Approval	Mo/Day/Yr.	
CITY PROJECT NO. 563591		ZONE MAP NO. E-22-Z	SHEET 5 OF 10

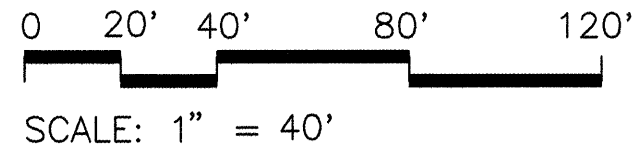
ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES				CONTRACTOR	
		NO.	BY			WORK	DATE
						INSTALLED BY	DATE
						ACCEPTANCE BY	DATE
						FIELD	DATE
						REPAIR/REINFORCE BY	DATE
						REWORKED BY	DATE
						RECORDED BY	DATE
DESIGNED BY JFB		DATE 12/21/98		MICRO-FILM INFORMATION			
DRAWN BY SFG/KRB		DATE 12/21/98		RECORDED BY		DATE	
CHECKED BY JFB		DATE 12/21/98		NO.			



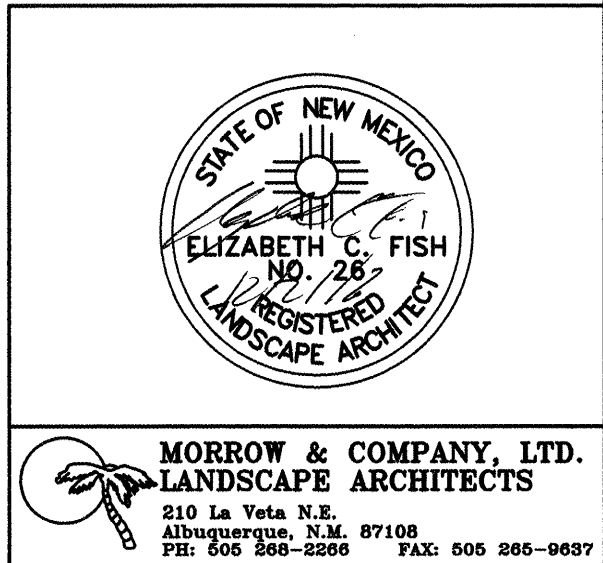
MEDIAN #2

NOTE:

SEE SHEET 5 FOR PLANT LIST AND PLANTING NOTES.



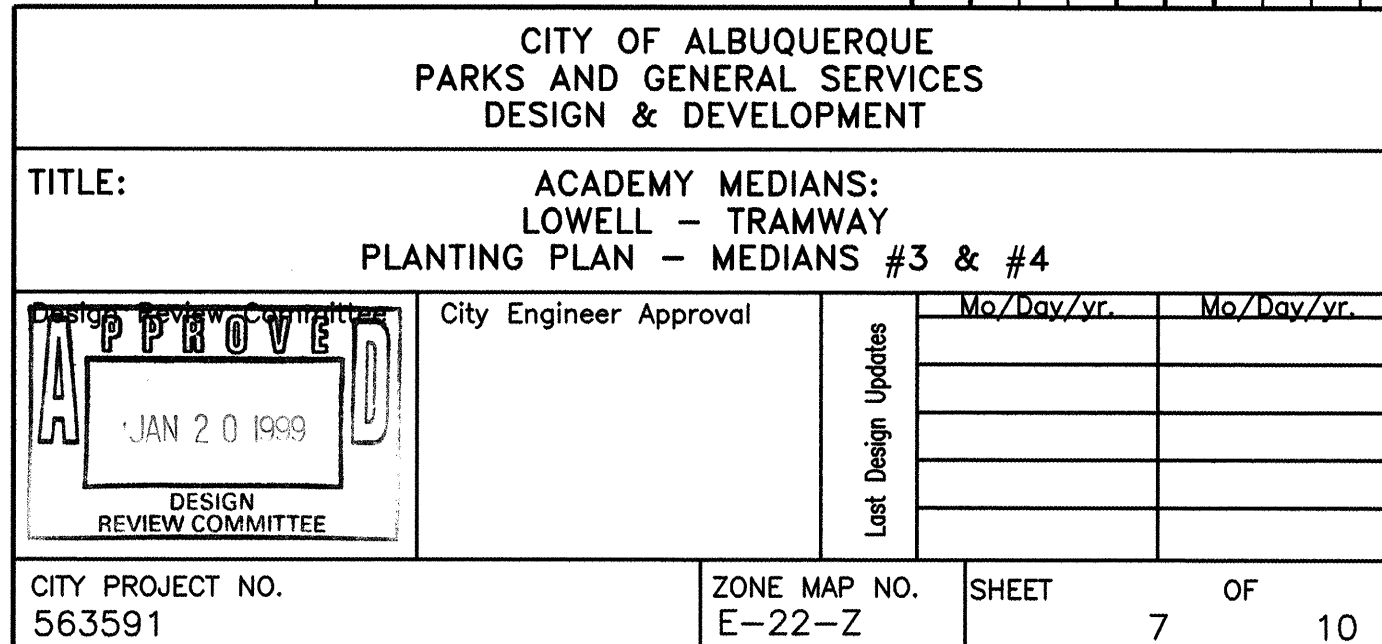
FOR INFORMATION ONLY



CITY OF ALBUQUERQUE PARKS AND GENERAL SERVICES DESIGN & DEVELOPMENT			
TITLE: ACADEMY MEDIANS: LOWELL - TRAMWAY PLANTING PLAN - MEDIAN #2			
Design Review Committee APPROVED JAN 20 1999 DESIGN REVIEW COMMITTEE	City Engineer Approval	Mo/Day/Yr.	
		Mo/Day/Yr.	
CITY PROJECT NO. 563591	ZONE MAP NO. E-22-Z	SHEET 6 OF 10	

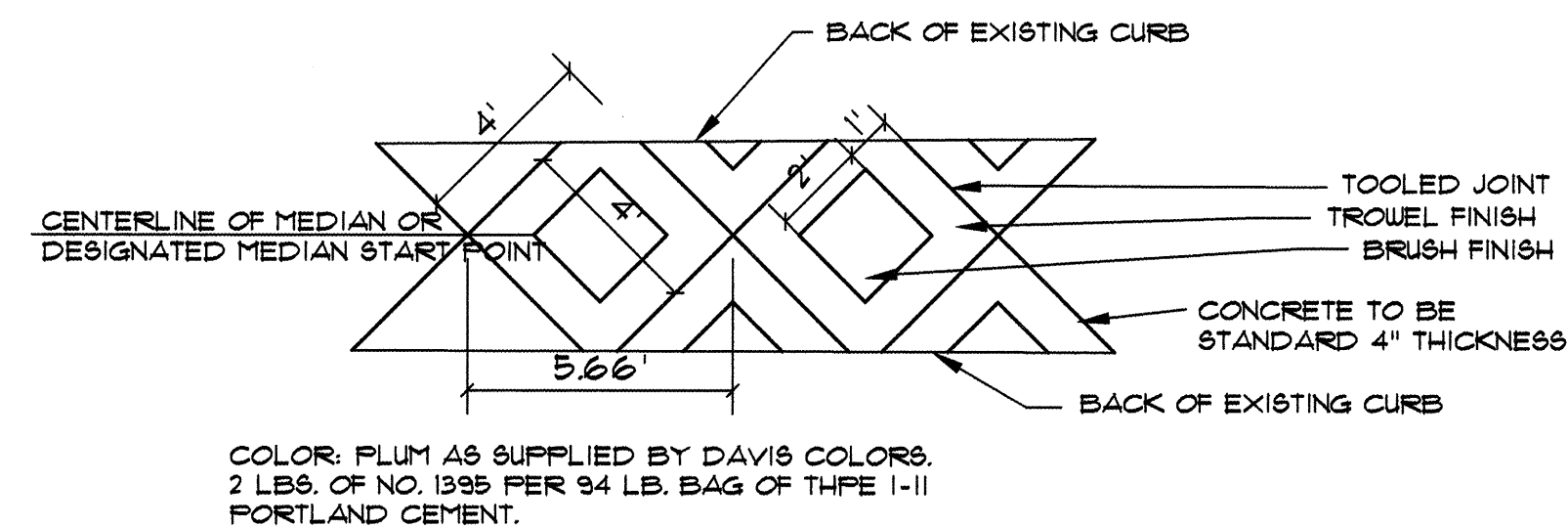
ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES					
		NO.	BY	DATE			CONTRACTOR
							WORK COMPLETED BY
							INSPECTION DATE
							ACCEPTANCE BY

FOR INFORMATION ONLY






LANDSCAPE BOULDER
 MCD-0097 110795 N.T.S.



D TYPICAL CONCRETE PATTERN

8 MCD-0525 120496 1/4" x 1" - Ø

FOR INFORMATION ONLY



 **MORROW & COMPANY, LTD.**
LANDSCAPE ARCHITECTS
210 La Veta N.E.
Albuquerque, N.M. 87108
PH: 505 268-2266 FAX: 505 265-9637

CITY OF ALBUQUERQUE
PARKS AND GENERAL SERVICES
DESIGN & DEVELOPMENT

TITLE:	ACADEMY MEDIANS: LOWELL - TRAMWAY DETAILS
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City Engineer Approval

Last Design Updates

Mo/Day/yr.	Mo/Day/yr.
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MO/ Day/ Yr.	MO/ Day/ Yr.

CITY PROJECT NO
563591

ZONE MAP NO.
E-22-Z

0.	SHEET	OF
	8	10

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. CONTRACTOR SHALL NOT BEGIN WORK BEFORE 7:00 A.M. OR END WORK AFTER 7:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

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. 24 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.

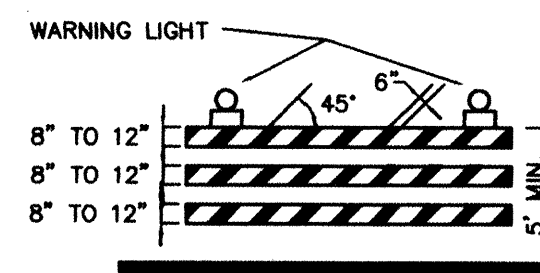
22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC 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.

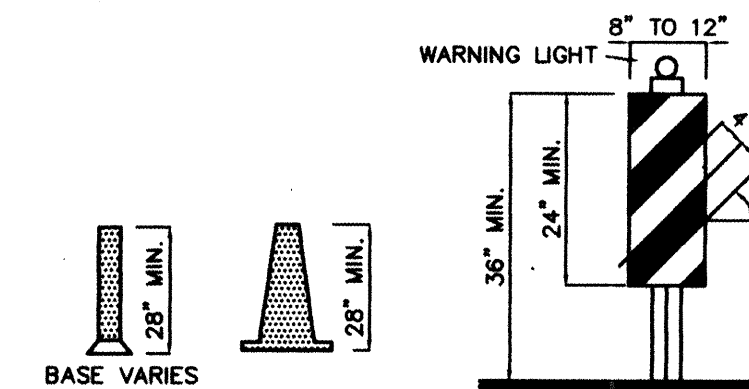
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO ITS PLACEMENT AND MAINTENANCE.

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

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" WITH SUPER ENGINEERING GRADE SHEETING OR BETTER.



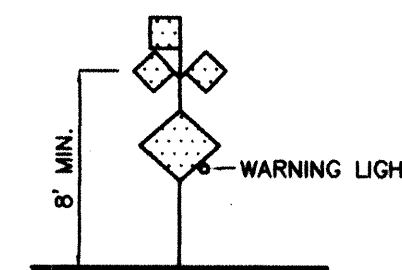
TYPE III BARRICADE



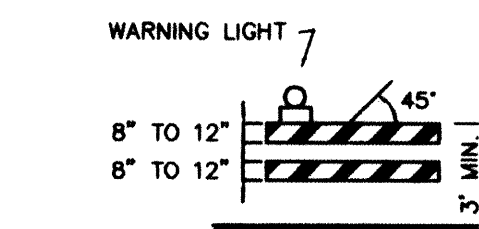
VERTICAL PANEL



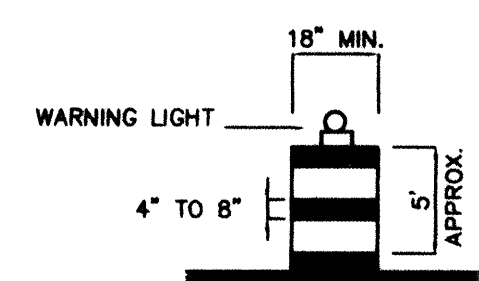
CONES



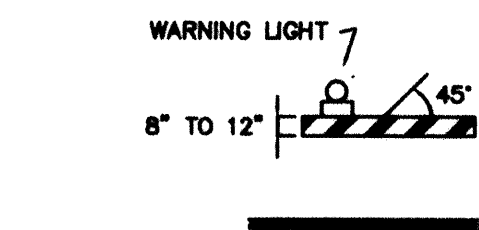
HIGH LEVEL WARNING DEVICE



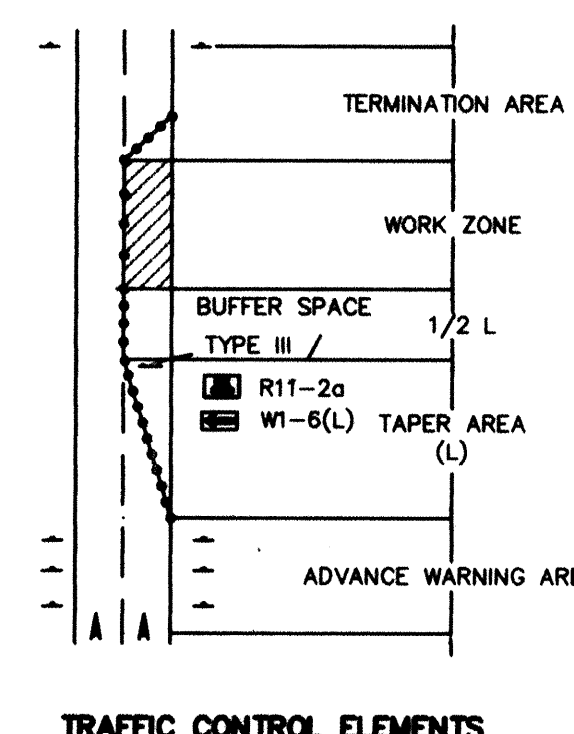
TYPE II BARRICADE



BARREL



TYPE I BARRICADE



TRAFFIC CONTROL ELEMENTS

LEGEND

WORK AREA
BARRICADE - TYPE I, TYPE II, OR BARREL
BARRICADE - TYPE III
VERTICAL PANEL
WARNING SIGN
DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
FLAGMAN POSITION
SPACING BETWEEN BARRICADES- A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
TAPER LENGTH - SEE CHART BELOW
THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

TAPER REQUIREMENTS

SPEED LIMIT (MPH)	TAPER LENGTH (L) (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

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

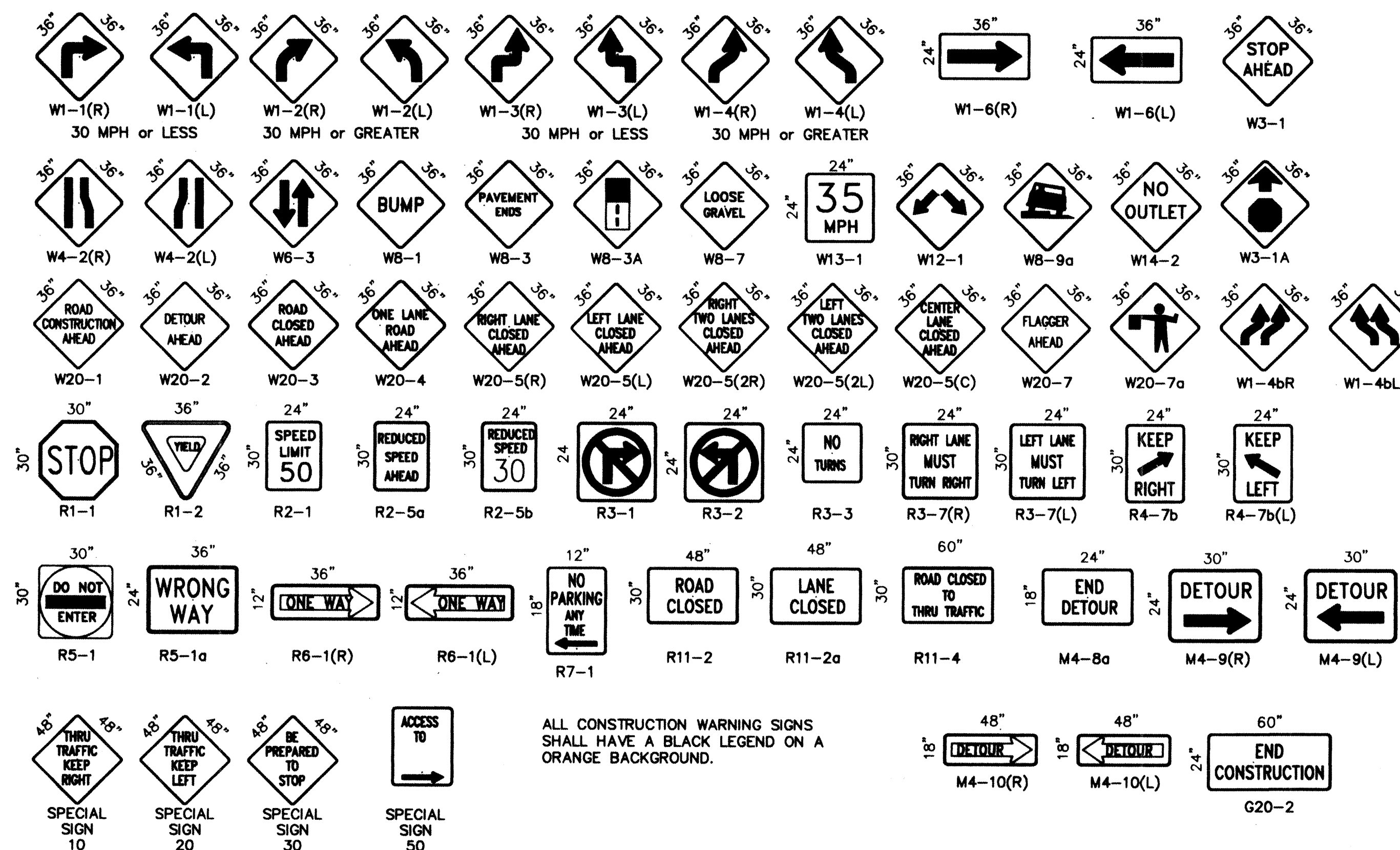
TAPER CRITERIA

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

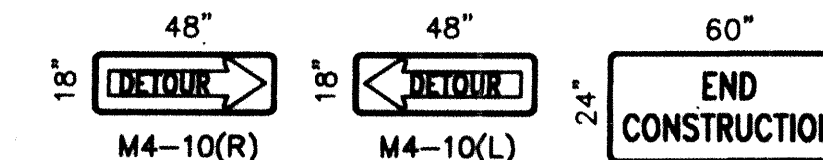
TAPER LENGTH COMPUTATION

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



G20-2

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: ACADEMY MEDIANS SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
COA Standard	
PROJECT NO. 563591	MAP NO. E-22
SHEET 9 OF 10	

