CITY OF ALBUQUERQUE BERNALILLO COUNTY, NEW MEXICO

ROYAL PLUMBING & HEATING

INFRASTRUCTURE IMPROVEMENTS

6401 SIGNAL AVENUE NE

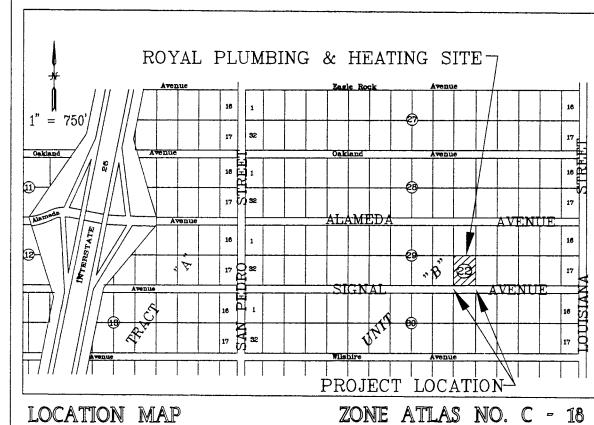
INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
	COVER SHEET AND INDEX TO DRAWINGS
2	CROSS SECTIONS AND DETAILS
3	PLAN AND PROFILE - STREET IMPROVEMENTS
4	SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS
5	TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES

I, Frank D. Lovelady, New Mexico Professional Engineer No. 6512, do hereby certify that the as-built information shown hereon is the result of a field survey performed by me or under my supervision and that the same is true and correct, to the best of my knowledge and belief.

Erank D. Lovelady, N.M.P.E. #8512 Date

DRB NO. 97-357



CARACTO EVILAN

<NOTICE TO CONTRACTORS>

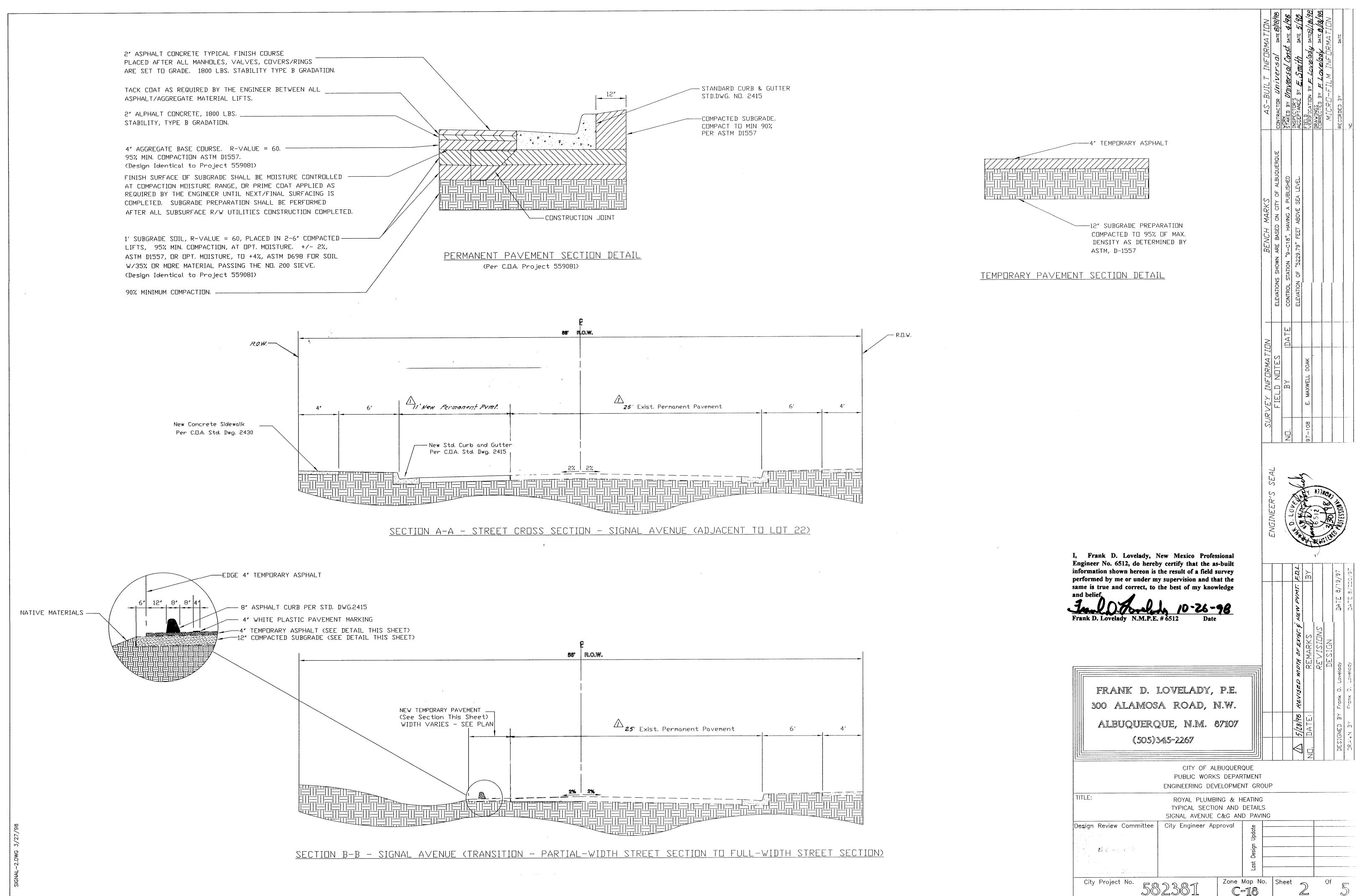
- 1. All work shown on these plans to be performed under contract shall, except as otherwise stated or provided for hereon, be constructed in accordance with the City of Albuquerque Standard Specifications for Public Works Construction, 1986 Edition as amended through update No. 6.
- 2. Two (2) working 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 the Construction Coordination Division a detailed construction schedule. Two (2) working days prior to construction, the Contractor shall obtain a barricading permit from the Construction Coordination Division. Contractor shall notify Barricade Engineer (765–2551) 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 with plastic reflectorized pavement markings 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 engineer may take necessary measures to insure the preservation of survey monuments. Contractor the preservation of survey monuments. Contractor shall not disturb permanent survey monuments without the consent of the Engineer and out 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 by the City Survey Section. When a change is made in the finish elevations of the pavement of any roadway in which a permanent survey survey monument is cated, 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.
- 7. Any existing infrastructure altered by the contractor shall be repaired per City of Albuquerque standards.
- 8. Any work affecting an arterial roadway requires twenty—four (24) hour construction.

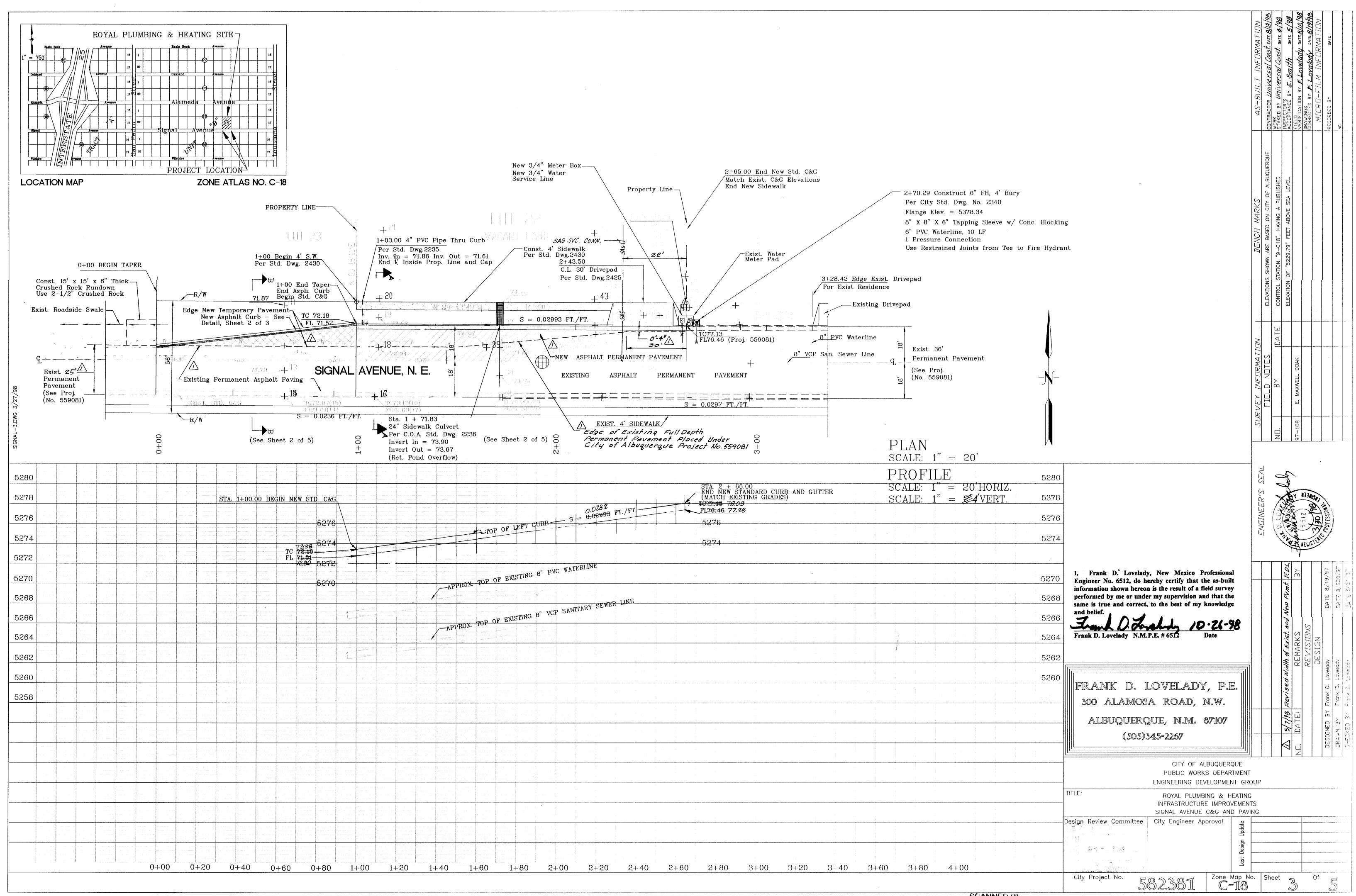
FRANK D. LOVELAI 300 ALAMOSA I ALBUQUERQUE, NN (505)345-2267	J.W.	INFRASTRUCTURE IMPROVEMENTS ROYAL PLUMBING AND HEATING 6401 SIGNAL AVENUE NE ALBUQUERQUE, NEW MEXICO					
					4.		
1 2 £3 Silly &	. Looking	6/27/12	Hen R	6:	3-9 X		
REV. SHEETS CITY	NGINEER	·DATE	USER DEPARTME	NT :	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP AND SIGNATU	RE APPROVAL	_S	ENGINEER	DATE	* *	* * * * * * * * * * *	* * * *
	D.R.C. Chairmar	Bi	lly & Doolsh	1/6/98	AP	PROVED FOR CONSTRU	ICTION
10. LONG	Transportation	on Lu					
	Water/Waste	water R.	W. Kome	3-3-9	8		
2	Hydrology	B. N	Montona	3/19/59		-1/2011	
(65)200/51	Parks				TK.	CX 36 1 411	MA
35	Const.Mngnt.		****		City	/ Engineer	Date
1 (Santa)	Const. Coord.		7111				
The second of th	CITY PROJ	ECT ND.			SHE	ET OF	

JAL-1.DWG (3/2/98)

SCA

SCANNED HY





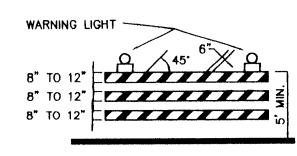
CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

- 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: 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
- 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" WITH SUPER ENGINEERING GRADE SHEETING OR BETTER.

ADDITIONAL TRAFFIC CONTROL NOTES:

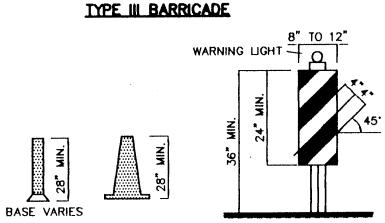
- 1. Contractor shall perform as much work as possible; including all utility work, placement of all curb and gutter, and the sidewalk culvert; prior to effecting traffic.
- 2. Contractor will be allowed five days in barricade permit to complete pavement operations. Contractor is allowed five days for a westbound closure of Signal Avenue.
- Contractor shall maintain eastbound traffic on Signal Avenue at all times.

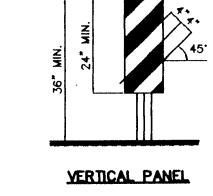


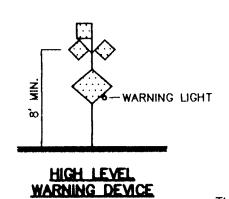
CONES

WARNING LIGHT

WARNING LIGHT







LEGEND

WORK AREA BARRICADE - TYPE I, TYPE II, OR BARREL

BARRICADE - TYPE III VERTICAL PANEL

DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET FLAGMAN POSITION

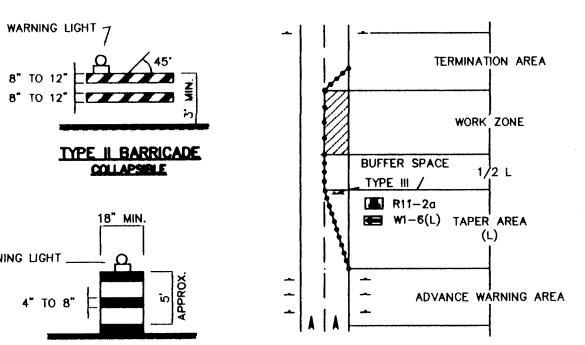
SPACING BETWEEN BARRICADES- A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET

TAPER REQUIREMENTS

20

TAPER LENGTH - SEE CHART BELOW

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.



TRAFFIC CONTROL ELEMENTS

TAPER LENGTH (L) | MINIMUM | MAXIMUM DEVICE SPEED NUMBER | SPACING IN FEET LIMIT DEVICES | ALONG | AFTER (MPH) LANE LANE LANE FOR TAPER TAPER TAPER 70 20 20 75 80 25 105 115 125 150 180 30 30 165 7 35 205 245 225 270 320 40 295 45 450 540 45 600 500 550 55 550 55 605

8" TO 12" COLLAPSIBLE

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

MINIMUM DISTANCE IN FEET MILES BETWEEN FROM LAST SIGN TO TAPER PER HOUR SIGNS 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 1/2 L MINIMUM SHOULDER TAPER TWO-WAY TRAFFIC TAPER 100 FEET MAXIMUM

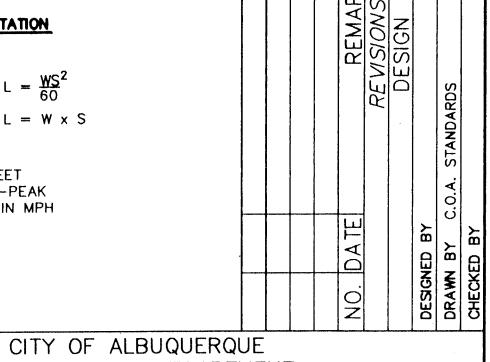
100 FEET PER LANE

TAPER LENGTH COMPUTATION

DOWNSTREAM TAPERS

SPEED LIMIT 40 MPH OR LESS 45 MPH OR GREATER $L = W \times S$

L = TAPER LENGTHW = WIDTH OF OFFSET IN FEET S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH



PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS DESIGN REVIEW COMMITEE L CITY ENGINEER APPROVAL

MAPC-18 SHEET 4 OF 5 582381

W3-1 30 MPH or GREATER RIGHT TWO LANES CLOSED AHEAD TWO LANES CLOSED AHEAD ROAD CLOSED ROAD CONSTRUCTION AHEAD ONE LANE ROAD AHEAD LEFT LANE CLOSED AHEAD DETOUR CLOSED AHEAD W20-7a W20-5(R)W20-5(2R) W20-1W20 - 3W20-4 REDUCEI SPEED 30 KEEP KEEP LEFT LANE REDUCED RIGHT LANE MELLO MUST LIMIT SPEED MUST TURNS AHEAD TURN RIGHT TURN LEFT LEFT RIGHT R4-7b(L) R3-7(R) R3 - 3

ROAD

CLOSED

LANE

CLOSED

R11-2a

SIGN FACE DETAILS

DO NOT ONE WAY ONE WAY WAY ENTER ACCESS PREPARED TO THRU TRAFFIC KEEP LEFT

SPECIAL

SIGN 30

TRAFFIC KEEP

SPECIAL

SIGN

SIGN

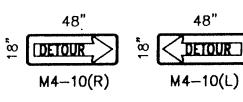
TO

SPECIAL

SIGN 50

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

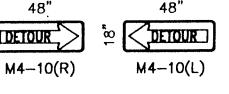
PARKING ANY TIME



ROAD CLOSED

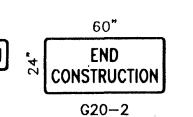
THRU TRAFFIC

R11-4



DETOUR

M4-8a



🛂 DETOUR

M4-9(L)

DETOUR

M4-9(R)

STOP

BY LASON

