LOTS 33-A, 33-B AND 33-C ALVARADO GARDENS ADDITI

WATER SERVICE AND TWO SEWER SERVICE CONNECTIONS AT 3203 RIO GRANDE BLVD. NW

INDEX TO SHEETS

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SHEET 2 WATER METER WITH TWO SEWER SERVICES

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GENERAL NOTES

1. THE CONTRACTOR SHALL FURNISH EMD'S ON ALL WATER AND SEWER SERVICE STUBS, CAPS & PLUGS

2. RESTAINED JOINTS ARE REQUIRED AT ALL WATER LINE BENDS, TEES, CAPS AND GATE VALVES. 3. PIPE FOR WATER LINES SHALL BE POLYVINYL CHLORIDE (PVC) PIPE C 900 DR25

FOR 8" OR SMALLER LINES. PIPE FOR SERVICE LATERALS SHALL BE COPPER

4. THE SEWER PIPE SHALL BE PVC SCHEDULE 40 FOR ALL PIPE SIZES.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND MAINTAINING IN SERVICE ALL EXISTING UTILITIES. CONTRACTOR IS TO EXERCISE DUE CARE TO AVOID DISTRUBING ANY EXISTING UNDERGROUND UTILITIES.

6. CONTRACTOR SHALL MAINTAIN A GRAFFITI FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

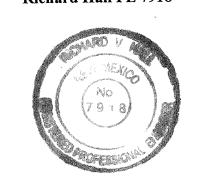
CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Richard V. Hall of the firm of Hall Engineering Company Inc., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of their project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction and survey information provided by Richard V. Hall, NMPS number PS# 7264.











HALL ENGINEERING COMPANY INC.

ENGINEERING SURVEYING PLANNING CONSTRUCTION 11204 MONTGOMERY BLVD. NE PMB#341 ALBUQUERQUE, NEW MEXICO 87111 PHONE (505) 848-7822 FAX (505) 848-7825

APPROVED AS RECORD DRAWINGS

DESIGN REVIEW SECTION

JULY 2002

NOTICE TO CONTRACTORS

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION, AS AMENDED THROUGH MOST CURRENT UPDATE.

2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT

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

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 CONSTRUCTION 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. BACKFILL AND COMPACTION SHALL BE ACCORDING TO RESIDENTIAL

6. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR OF THE STANDARD SPECIFICATIONS.

7. THE CONTRACTOR SHALL COORDINATE THE WATER SHUT OFF PLAN WITH THE CITY WATER SYSTEMS DIVISION NOT LESS THAN THE CONTRACTOR SHALL MAINTAIN WATER SERVICE IN SO FAR AS POSSIBLE DURING CONSTRUCTION. PHONE 857-3250

8. STREET CENTERLINE GRADES SHALL BE RESTORED BY THE CONTRACTOR TO THI EXISTING CENTERLINE GRADE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

9. THE CONTRACTOR SHALL BE REQUIRED TO CONFINE HIS WORK WITHIN THE RIGHT-OF-WAY SHOWN ON THE DRAWINGS AND SHALL PRESERVE EXISTING VEGETATION AND PRIVATE PROPERTY. 10. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMMENTS FOR SAFETY WHICH SHALL REMAIN THE CONTRACTORS RESPONSIBILITY.

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 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.

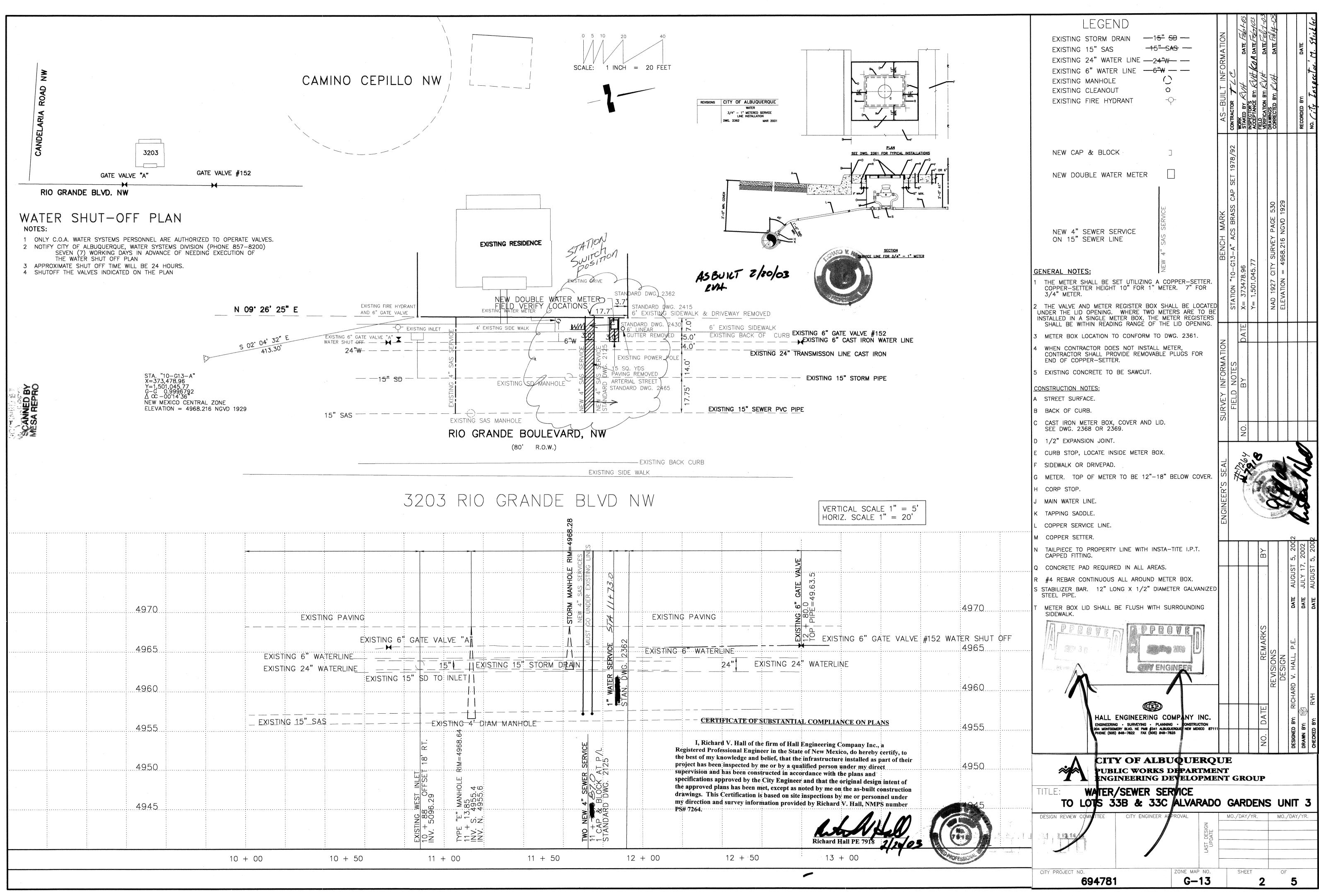
ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.



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VICINITY MAP G-13-Z SCALE: I" = 750'





LOG NO. 2001332806 APPROVED on the condition that all define of the Middle Rio Grande Conservancy District in easements, rights of way, sessments and liens, are fully reserved to said District, and that if provision for irrigation source and easements are not previded for by the subdivider for the subdivi PLAT OF LOTS 33-A, 33-B AND 33-C sion, addition, or plat, said District is absolved of all obligations to furnish irrigation waters and services to any portions thereof, other than from existing turnouts. ALVARADO GARDENS ADDITION UNIT NO. 3 CITY OF ALBUQUERQUE BERNALILLO COUNTY, NEW MEXICO WITHIN THE TOWN OF ALBUQUERQUE GRANT PROJECTED SECTION 3, T.10N., R.3E., N.M.P.M. The South One—Half (S. 1/2) of Tract No. 33 of Alvarado Gardens Addition Unit No. 3, a subdivision of a tract of land in Los Candelarias, Bernalillo County, New Mexico as the same is shown and designated on the plat of said addition, filed in the office of the County Clerk of Bernalillo County, New Mexico on NOVEMBER 2001 May 30, 1937, being more particularly described as follows: the Westerly right-of-way line of Rio Grande Boulevard, NW, from which point ACS Sta. 10-G13-A bears S 02°04'32" E, a distance of 413.30 feet, and running thence, N 72°56'20" W, a distance of 515.20 feet to the Southwest corner of the herein described tract of land, said corner being a point on the Easterly right—of—way line of the Duranes Ditch; thence following said ditch right—of—way, N 11*38'58" E, a distance of 105.04 feet to the Northwest G-13-Z **MCINITY MAP** SCALE: 1" = 750' corner of the herein described tract of land; thence, S 72°58'48" E, a distance of 511.18 feet to the Northeast corner of the herein described Subdivision No. tract of land, said corner being a point on the Westerly right—of—way line of Rio Grande Boulevard, NW; thence, following said right—of—way, S 09*26'25" W, a distance of 105.60 feet to the Southeast corner and the place of beginning, containing 1.2341 acres, more or less. Planning Director N'ly. 1/2, Tr. 33 ALVARADO GARDENS ADDITION UNIT 3 Warranty Deed filed Jan. 11, 1999, Bk. 9901, p. 3598 City Engineer MONUMENTATION A - Set 1/2" Rebar, cap "HALL ENG. 7264" A.M.A.F.C.A. 6/26/02 M.R.G.C.D. Water Utilities Development Parks and Recreation LOT ARTENSANOS DEL NORTE 22' PRIVATE ACCESS, SEWER & SUBDIVISION DATA File 5/24/78, Vol. D8, Folio 131 S DEL NO. 348.857 EASEMENT LUI 30-7.
S DEL NO. 348.857 Granted by this plat 0.3804 ACRES 16,569.57 sq.ft. 12,542.93 sq.ft. net 1. DRB Project No. 1001112 1-22-02 2. Zone Atlas Index No. G-13-Z Lot "K" 3. Current Zoning : RA-2 4. Gross acreage 1.2341 Ac. This is to certify that taxes are current and paid on U.P.C. #_ LOT ARTENSANOS DEL NORTE File 1/6/81, Vol. D9 folio 207 5. Total Number of Lots created: 2 NOTES 1. This Plat is based on the following documents: a. ALVARADO GARDENS ADDITION filed May 30, 1937 FREE CONSENT Bernalillo County Treasurer's Office b. LOS ARTESANOS DEL NORTE filed May 24, 1978 The division of the South one—half of Tract 33, Alvarado Gardens Addition Unit 3 into Lots 33—A, 33—B and 33—C, with the grant of a Public Utility Easement 20 feet in width and grant of a Private Access Easement 22 feet in width is with the free consent and in accordance with the desires of c. Warranty Deed for the South 1/2 of Tract 33, of Alvarado Gardens Addition Unit No. 3, dated September 1, 1943 and filed for record in the office of the County Clerk of Bernalillo County, New Mexico on September 16, 1943 in Book 207, the undersigned owner. page 27; and also recorded on March 7, 1951 in Vol. D-170, page 541. d. Warranty Deed for the South 1/2 of Tract 33, of Alvarado Gardens Addition Unit SURVEYOR'S CERTIFICATION No. 3, dated October 9, 2000 and filed for record in the office of the County I, Richard V. Hall, a Registered Professional Land Surveyor licensed under the laws of the State Clerk of Bernalillo County, New Mexico on October 10, 2000, in Book A11, page 163. of New Mexico, do hereby certify that this plat was prepared by me or under my supervision and direction, meets the Rules for Minimum Standards for Surveying in New Mexico and the minimum 2. Bearings are Grid, New Mexico Central Zone, NAD 1927 Record bearings and distances are shown in parentheses (). X=3/3,4/8.90 Y=1,501,045.77 G-G 0.9996792 Δ CC-0014'36" NEW MEXICO CENTRAL ZONE requirements for monumentation and surveys of the Albuquerque Subdivision Ordinance, and that it is true and correct to the best of my knowledge and belief. 3. Dimensions are Ground distances measured in the field. **ACKNOWLEDGMENT** 4. This Plat shows all easements of record STATE OF NEW MEXICO) ss COUNTY OF BERNALILLO) 5. Monuments recovered and accepted and/or as set are as shown on inscribed Plat. 6. Irrigation Easement Ten feet (10') in width is for the beneficial use of On this // day of DECEMBEA, 2001, the foregoing instrument was acknowledged before me by John Sparks, owner of the South One—half of Tract 33, Alvarado Gardens Addition Unit No. 3. Lots 33-A, 33-B, and 33-C only. N.M.P.S. No. 7264 7. Private Access Easement Twenty-two (22') in width following the interior line My Commission expires NOVEMBER 19, 2005 between Lots 33—A and 33—B is granted by this plat. Easement is for the mutual benefit and use of Lots 33—A, 33—B and 33—C as shown on this plat. Maintenance of improvements within this easement shall be the equal responsibility of the owners of the three lots served, their heirs and/or assigns. 8. The purpose of this plat is to divide the existing tract into 3 parcels and to grant a Private Access, Sewer & Water and Public Utility Easement and To grant an Irrigation Ditch Easement. HALL ENGINEERING COMPANY INC. NOTARY PUBLIC
STATE OF NEW MEXICO
My commission expires 9. City of Albuquerque Water and Sanitary Sewer Service to Lots 33-A, 33-B and 33-C must be verified and coordinated with the Public Works Department, City of Albuquerque. ENGINEERING SURVEYING PLANNING CONSTRUCTION

CITY PROJECT # 694781

1116 2ND ST., NW . ALBUQUERQUE, NEW MEXICO 87102

PHONE (505) 848-7822 FAX (505) 848-7825

SHEET 3 OF 5

2061-10

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 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 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.

219. 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

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.

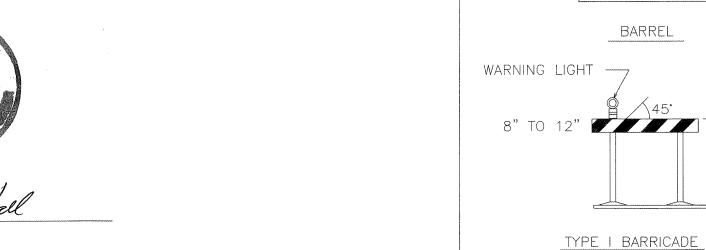
26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.

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

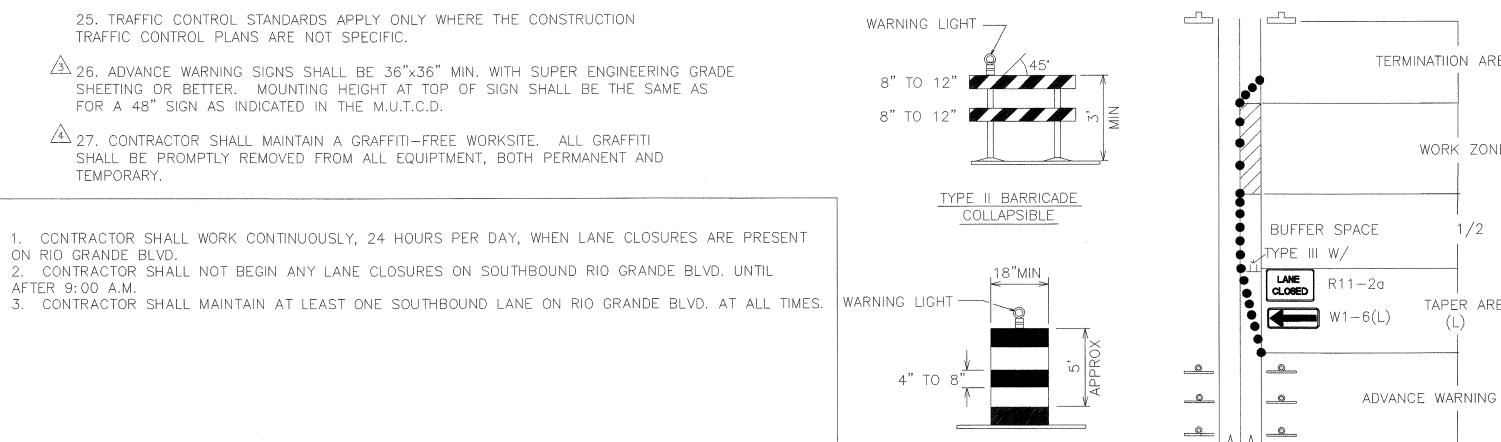
RICHARD V. HALL

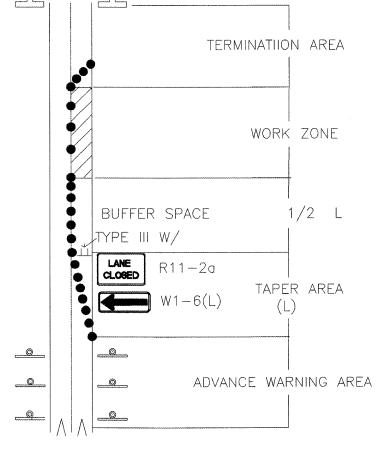
NMPE 7918

1. CONTRACTOR SHALL WORK CONTINUOUSLY, 24 HOURS PER DAY, WHEN LANE CLOSURES ARE PRESENT ON RIO GRANDE BLVD. 2. CONTRACTOR SHALL NOT BEGIN ANY LANE CLOSURES ON SOUTHBOUND RIO GRANDE BLVD. UNTIL AFTER 9:00 A.M.



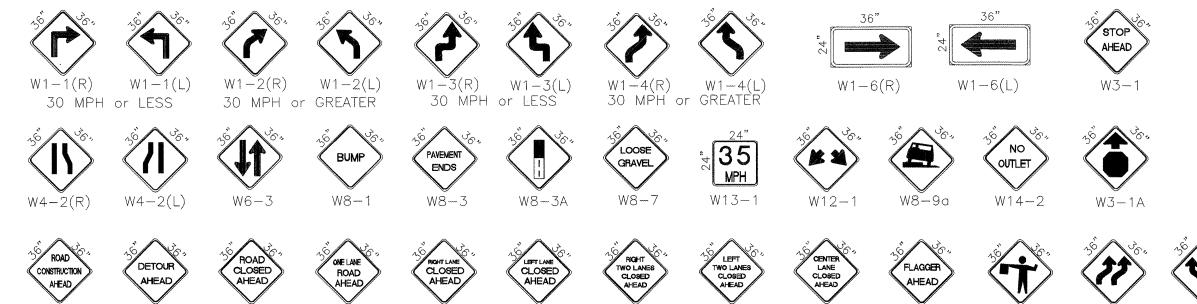
WARNING LIGHT 8" TO 12" 8" TO 12" 8" TO 12" TYPE III BARRICADE WARNING LIGHT BASE VARIES VERTICAL PANEL HIGH LEVEL CONES WARNING DEVICE

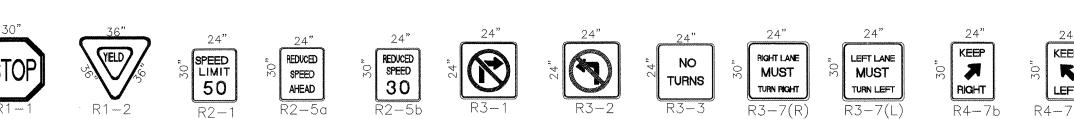




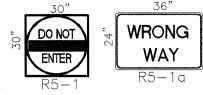
TRAFFIC CONTROL ELEMENTS

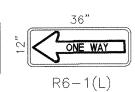
SIGN FACE DETAILS

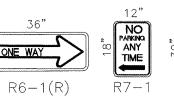


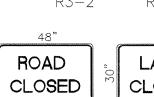


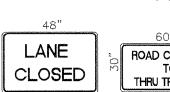
W20-4 W20-5(R) W20-5(L) W20-5(2R) W20-5(2L) W20-5(C)







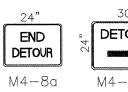


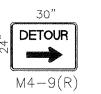


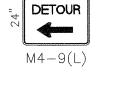
COLLAPSIBLE



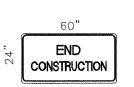
W20-7







W1-4bR



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

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	TAP	ER LENGTH	H(L)	MINIMUM NUMBER OF	MAXIMUM SPACING	DEVICE IN FEET
(MPH)	10' LANE	11' LANE	12' LANE	DEVICES FOR TAPER	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			MINIMU BETWE SIGN:	EN	TANC		IN FEET FROM LAS GN TO TAI	
0-20	10	Χ	SPEED	LIMIT	10	Χ	SPEED LI	MIT
25-30	10	Χ	SPEED	LIMIT	10	Χ	SPEED LI	MIT
30-35	10	X	SPEED	LIMIT	10	Χ	SPEED LI	MIT
40-45	10	X	SPEED	LIMIT	10	X	SPEED LI	MIT
50-60	10	Χ	SPEED	LIMIT	10	Χ	SPEED LI	MIT

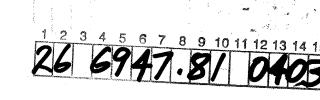
TAPER CRITERIA

TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER: MERGING TAPER	i 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

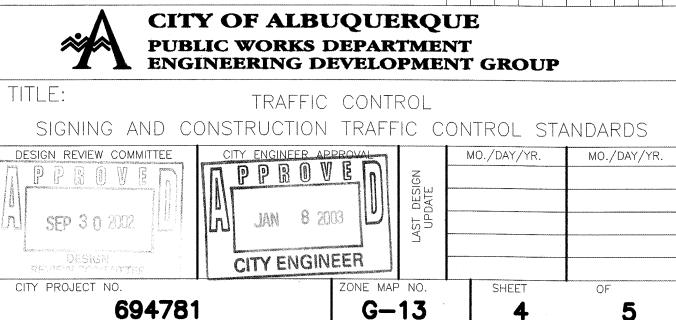
TAPER LENGTH COMPUTATION

40	MPH	OR	LESS	L	==	<u>ws</u> ²
40	MPH	OR	GREATER			W ×

S = POSTED SPEED OR OFF-PEAK85-PERCENTILE SPEED IN MPH



and the second s







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

