



CITY OF ALBUQUERQUE

CAPITAL IMPLEMENTATION PROGRAM

JUAN TABO MEDIANS

INDIAN SCHOOL TO BRENTWOOD HILLS

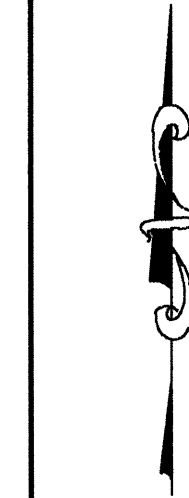
GENERAL NOTES:

1. CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED THROUGH UPDATE 6, WILL BE REFERRED TO HEREIN AS THE "STANDARD SPECIFICATIONS."
2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) AND DETERMINE LOCATION OF EXISTING UTILITIES.
3. THESE DRAWINGS REFLECT INFORMATION ON UTILITIES GATHERED BY SITE INSPECTION, DISCUSSIONS WITH MUNICIPAL OFFICIALS AND PREVIOUS CONSTRUCTION DRAWINGS. IT IS POSSIBLE THAT THE EXACT LOCATION OF LINES AND UTILITY CONNECTION POINTS IN THE IMMEDIATE VICINITY OF THE PROPOSED SITE MAY BE SLIGHTLY DIFFERENT FROM THE LOCATION SHOWN ON THE DRAWINGS. 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 OWNER REPRESENTATIVE SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
4. PRIOR TO ANY 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 THE SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITHOUT DELAY.
5. 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 COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE CONTRACTOR RESPONSIBILITY.
6. ALL EXCAVATION/CONSTRUCTION PERMITS WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR PERMITS.

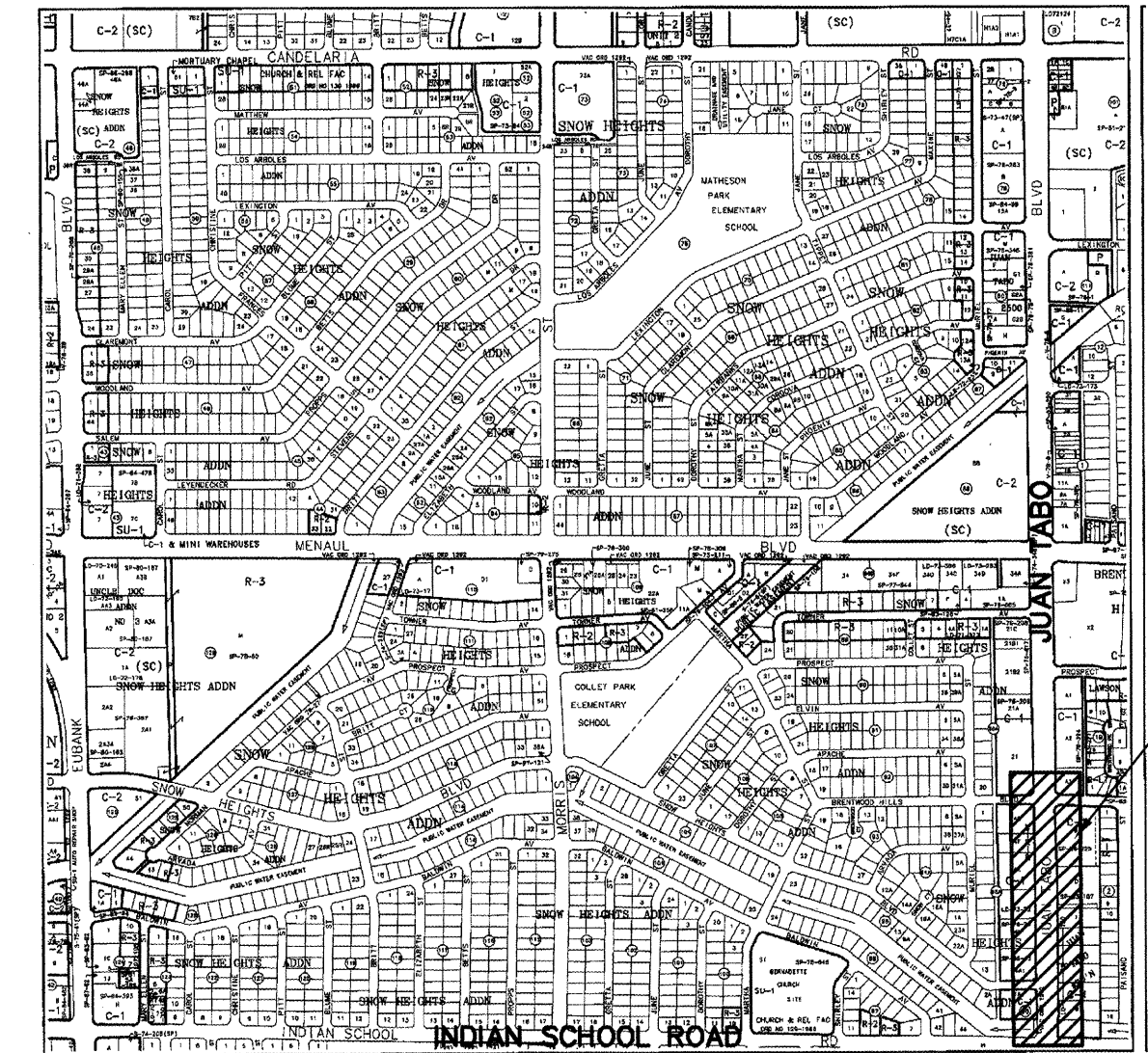
7. DISPOSAL OF ALL WASTE MATERIAL AND UNSUITABLE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AS SPECIFIED IN SECTION 6.14 OF THE GENERAL CONDITIONS IN THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1986 EDITION.
8. A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, ASPHALTIC, PAVING, CONCRETE CURBS AND SIDEWALKS, ETC., SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE FIELD ENGINEER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OF PAYMENT SHALL BE MADE.
9. REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK, OR RUNDOWN SHALL BE TO THE NEAREST JOINT OR SAW CUT.
10. ALL CONCRETE SHALL BE 4000 PSI 28-DAY STRENGTH IN ACCORDANCE WITH PROJECT SPECIFICATIONS UNLESS OTHERWISE NOTED.
11. ALL REINFORCING STEEL SHALL BE GRADE 60 DEFORMED BARS UNLESS OTHERWISE NOTED.
12. ALL EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER UNLESS OTHERWISE NOTED.
13. ALL PAVEMENT MARKINGS SHALL MEET THE NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARDS.
14. BACKFILL COMPACTION AND PAVING FOR UTILITIES SHALL BE ACCORDING TO C.O.A. STANDARD DRAWING NO. 2465.
15. PLANT QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY - PLANS TAKE PRECEDENCE.

16. 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 (768-2551) PRIOR TO OCCUPYING AN INTERSECTION.
17. THE 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 OR BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENTS 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.
18. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY THE CONTRACTOR TO LOCATION, AS EXISTING OR INDICATED BY THIS PLAN SET.
19. ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC., WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED, AND RE-SET BY THE CONTRACTOR.

VICINITY MAP



GRAPHIC SCALE
MAP NO. H-21



SITE

SHEET INDEX

SHEET NO.	TITLE
1	TITLE SHEET, VICINITY MAP, SHEET INDEX
2	IRRIGATION PLAN
3	PLANTING PLAN
4	TRAFFIC CONTROL
5	TRAFFIC CONTROL

FOR INFORMATION ONLY

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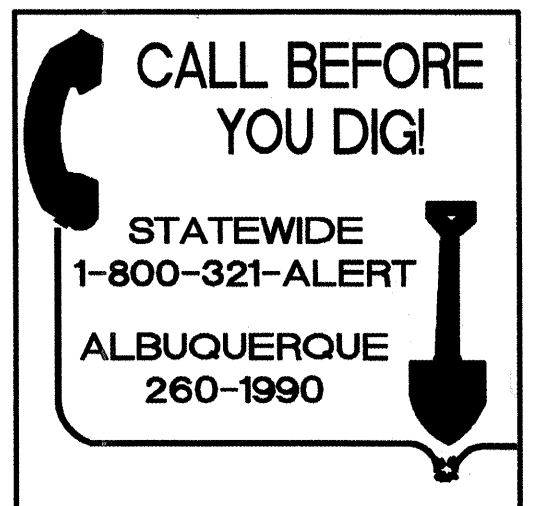
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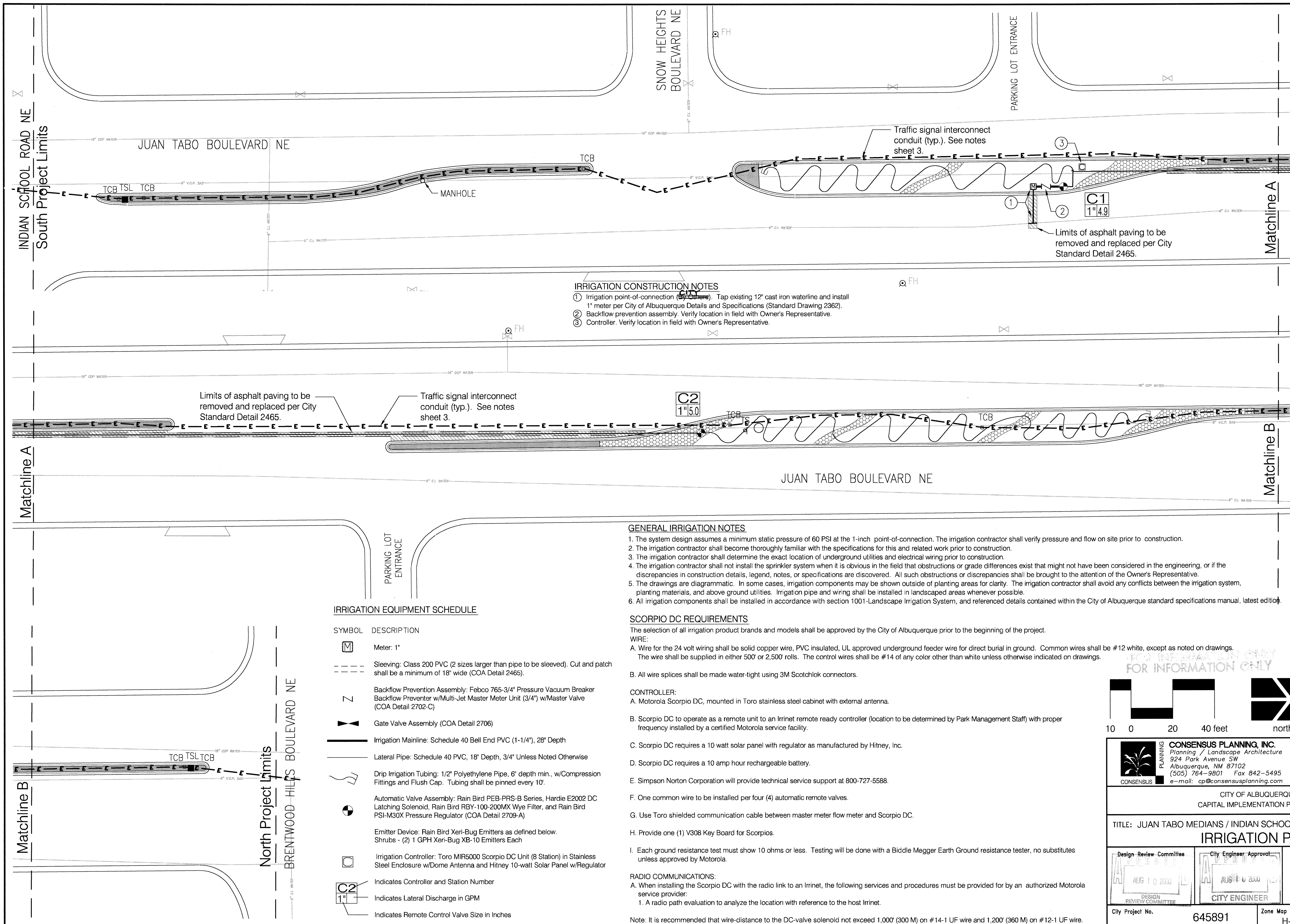
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REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE	
ENGINEERS STAMP & SIGNATURE		APPROVED	ENGINEER	DATE	APPROVED FOR CONSTRUCTION			
		DRC Chairman	<i>[Signature]</i>	8/10/00	<i>[Signature]</i> 8/10/00 CITY ENGINEER DATE			
		Transportation	<i>[Signature]</i>	8/10/00				
		Water/Wastewater	<i>[Signature]</i>	8/10/00				
		Hydrology	<i>[Signature]</i>	8/10/00				
		CIP	<i>[Signature]</i>	8/10/00				
Constr. Mngmt.	<i>[Signature]</i>	8/10/00	PROJECT NUMBER 645891			SHEET 1 OF 5		
Constr. Coord.	<i>[Signature]</i>	8/10/00						



- IRRIGATION CONSTRUCTION NOTES**
1. Irrigation point-of-connection (see notes sheet 3). Tap existing 12" cast iron waterline and install 1" meter per City of Albuquerque Details and Specifications (Standard Drawing 2362).
 2. Backflow prevention assembly. Verify location in field with Owner's Representative.
 3. Controller. Verify location in field with Owner's Representative.

GENERAL IRRIGATION NOTES

1. The system design assumes a minimum static pressure of 60 PSI at the 1-inch point-of-connection. The irrigation contractor shall verify pressure and flow on site prior to construction.
2. The irrigation contractor shall become thoroughly familiar with the specifications for this and related work prior to construction.
3. The irrigation contractor shall determine the exact location of underground utilities and electrical wiring prior to construction.
4. The irrigation contractor shall not install the sprinkler system when it is obvious in the field that obstructions or grade differences exist that might not have been considered in the engineering, or if the discrepancies in construction details, legend, notes, or specifications are discovered. All such obstructions or discrepancies shall be brought to the attention of the Owner's Representative.
5. The 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.
6. All irrigation components shall be installed in accordance with section 1001-Landscape Irrigation System, and referenced details contained within the City of Albuquerque standard specifications manual, latest edition.

SCORPIO DC REQUIREMENTS

The selection of all irrigation product brands and models shall be approved by the City of Albuquerque prior to the beginning of the project.

WIRE:

- A. Wire for the 24 volt wiring shall be solid copper wire, PVC insulated, UL approved underground feeder wire for direct burial in ground. Common wires shall be #12 white, except as noted on drawings. The wire shall be supplied in either 500' or 2,500' rolls. The control wires shall be #14 of any color other than white unless otherwise indicated on drawings.

- B. All wire splices shall be made water-tight using 3M Scotchlok connectors.

CONTROLLER:

- A. Motorola Scorpio DC, mounted in Toro stainless steel cabinet with external antenna.

- B. Scorpio DC to operate as a remote unit to an Irrinet remote ready controller (location to be determined by Park Management Staff) with proper frequency installed by a certified Motorola service facility.

- C. Scorpio DC requires a 10 watt solar panel with regulator as manufactured by Hitney, Inc.

- D. Scorpio DC requires a 10 amp hour rechargeable battery.

- E. Simpson Norton Corporation will provide technical service support at 800-727-5588.

- F. One common wire to be installed per four (4) automatic remote valves.

- G. Use Toro shielded communication cable between master meter flow meter and Scorpio DC.

- H. Provide one (1) V308 Key Board for Scorpions.

- I. Each ground resistance test must show 10 ohms or less. Testing will be done with a Biddle Megger Earth Ground resistance tester, no substitutes unless approved by Motorola.

RADIO COMMUNICATIONS:

- A. When installing the Scorpio DC with the radio link to an Irrinet, the following services and procedures must be provided for by an authorized Motorola service provider:
1. A radio path evaluation to analyze the location with reference to the host Irrinet.

Note: It is recommended that wire-distance to the DC-valve solenoid not exceed 1,000' (300 M) on #14-1 UF wire and 1,200' (360 M) on #12-1 UF wire.

IRRIGATION EQUIPMENT SCHEDULE

SYMBOL DESCRIPTION

- Meter: 1"
- Sleeving: Class 200 PVC (2 sizes larger than pipe to be sleeved). Cut and patch shall be a minimum of 18" wide (COA Detail 2465).
- Backflow Prevention Assembly: Febco 765-3/4" Pressure Vacuum Breaker Backflow Preventer w/Multi-Jet Master Meter Unit (3/4") w/Master Valve (COA Detail 2702-C)
- Gate Valve Assembly (COA Detail 2706)
- Irrigation Mainline: Schedule 40 Bell End PVC (1-1/4"), 28" Depth
- Lateral Pipe: Schedule 40 PVC, 18" Depth, 3/4" Unless Noted Otherwise
- Drip Irrigation Tubing: 1/2" Polyethylene Pipe, 6" depth min., w/Compression Fittings and Flush Cap. Tubing shall be pinned every 10'.
- Automatic Valve Assembly: Rain Bird PEB-PRS-B Series, Hardie E2002 DC Latching Solenoid, Rain Bird RBY-100-200MX Wye Filter, and Rain Bird PSI-M30X Pressure Regulator (COA Detail 2709-A)
- Emitter Device: Rain Bird Xeri-Bug Emitters as defined below. Shrubs - (2) 1 GPH Xeri-Bug XB-10 Emitters Each
- Irrigation Controller: Toro MIR5000 Scorpio DC Unit (8 Station) in Stainless Steel Enclosure w/Dome Antenna and Hitney 10-watt Solar Panel w/Regulator
- C2 Indicates Controller and Station Number
- 1" Indicates Lateral Discharge in GPM
- Indicates Remote Control Valve Size in Inches

FOR INFORMATION ONLY

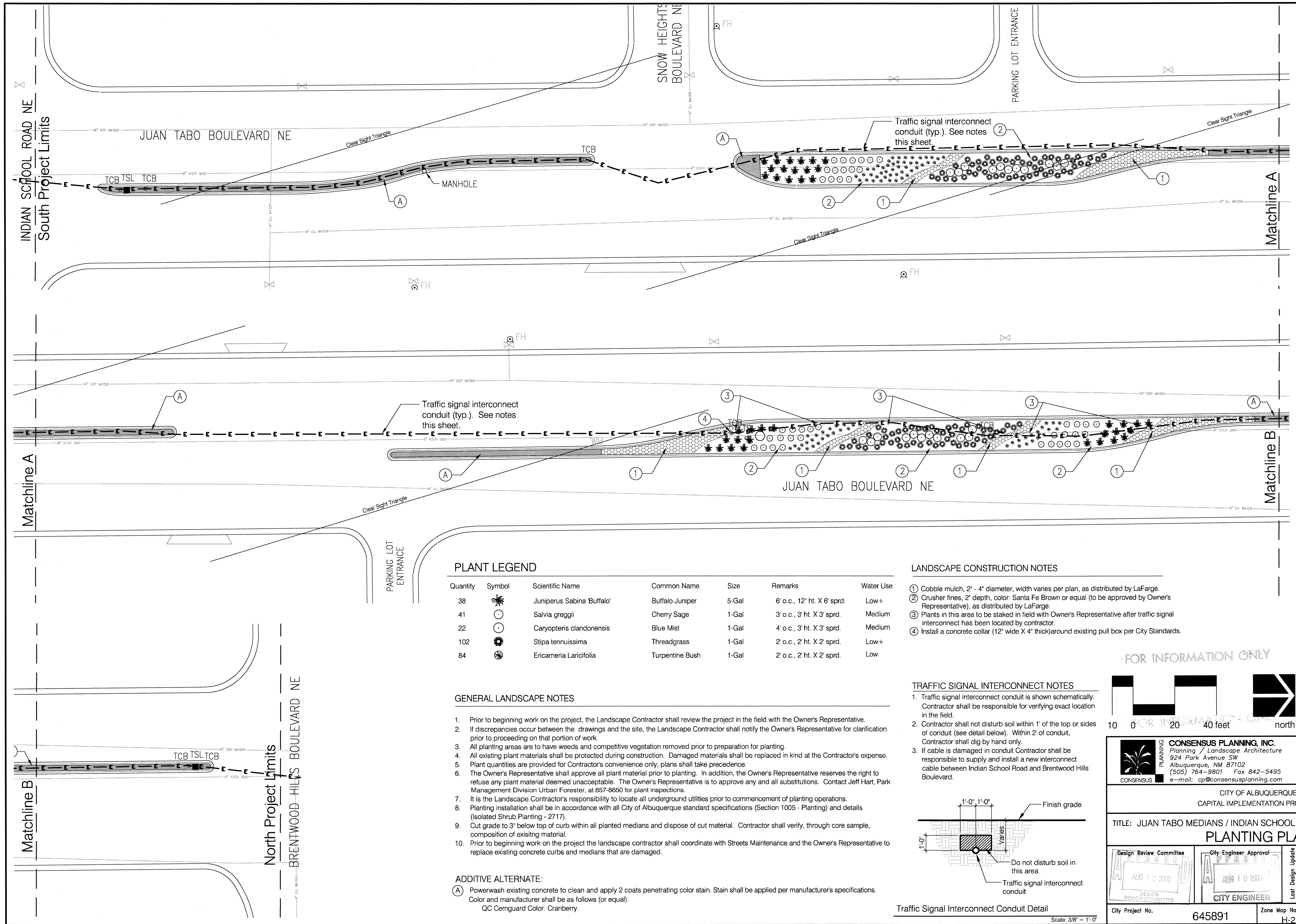


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CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROGRAM	
TITLE: JUAN TABO MEDIANS / INDIAN SCHOOL TO BRENTWOODS HILLS IRRIGATION PLAN	
Design-Review Committee AUG 10 2000 DESIGN REVIEW COMMITTEE	City Engineer Approval AUG 10 2000 CITY ENGINEER
City Project No. 645891	Zone Map No. H-21
Sheet 2 of 5	

PROGRAM																													
TO BRENTWOODS HILLS																													
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Sheet		2		of		5																							

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES				CONTRACTOR	
		NO.	BY			DATE	
NO. DATE		REMARKS		BY		DATE	
		REVISIONS					
		DESIGN					
DESIGNED BY BV		DATE 07/1/00					
DRAWN BY BV		DATE 07/1/00					
CHECKED BY CG		DATE 07/1/00					
						</	



PLANT LEGEND

Quantity	Symbol	Scientific Name	Common Name	Size	Remarks	Water Use
38		Juniperus Sabina 'Buffalo'	Buffalo Juniper	5-Gal	6' o.c., 12' ht. X 6' sprd.	Low+
41		Salvia greggii	Cherry Sage	1-Gal	3' o.c., 3' ht. X 3' sprd.	Medium
22		Caryopteris clandonensis	Blue Mist	1-Gal	4' o.c., 3' ht. X 3' sprd.	Medium
102		Stipa tenuissima	Threadgrass	1-Gal	2' o.c., 2' ht. X 2' sprd.	Low+
84		Ericameria laricina	Turpentine Bush	1-Gal	2' o.c., 2' ht. X 2' sprd.	Low

GENERAL LANDSCAPE NOTES

- Prior to beginning work on the project, the Landscape Contractor shall review the project in the field with the Owner's Representative.
- If discrepancies occur between the drawings and the site, the Landscape Contractor shall notify the Owner's Representative for clarification prior to proceeding on that portion of work.
- All planting areas are to have weeds and competitive vegetation removed prior to preparation for planting.
- All existing plant materials shall be protected during construction. Damaged materials shall be replaced in kind at the Contractor's expense.
- Plant quantities are provided for Contractor's convenience only, plans shall take precedence.
- The Owner's Representative shall approve all plant material prior to planting. In addition, the Owner's Representative reserves the right to refuse any plant material deemed unacceptable. The Owner's Representative is to approve any and all substitutions. Contact Jeff Hart, Park Management Division Urban Forester, at 857-8650 for plant inspections.
- It is the Landscape Contractor's responsibility to locate all underground utilities prior to commencement of planting operations.
- Planting installation shall be in accordance with all City of Albuquerque standard specifications (Section 1005 - Planting) and details (Isolated Shrub Planting - 2717).
- Cut grade to 3" below top of curb within all planted medians and dispose of cut material. Contractor shall verify, through core sample, composition of existing material.
- Prior to beginning work on the project the landscape contractor shall coordinate with Streets Maintenance and the Owner's Representative to replace existing concrete curbs and medians that are damaged.

ADDITIVE ALTERNATE:

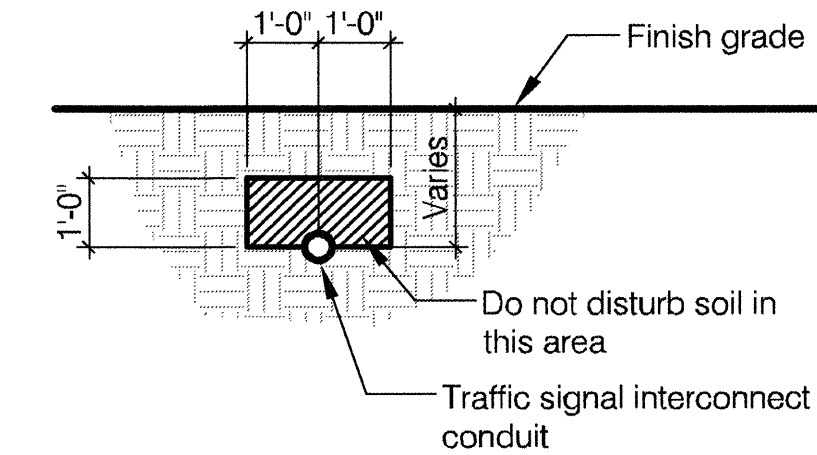
- (A) Powerwash existing concrete to clean and apply 2 coats penetrating color stain. Stain shall be applied per manufacturer's specifications. Color and manufacturer shall be as follows (or equal):
QC Cemguard Color: Cranberry.

LANDSCAPE CONSTRUCTION NOTES

- Cobble mulch, 2" - 4" diameter, width varies per plan, as distributed by LaFarge.
- Crusher fines, 2" depth, color: Santa Fe Brown or equal (to be approved by Owner's Representative), as distributed by LaFarge.
- Plants in this area to be staked in field with Owner's Representative after traffic signal interconnect has been located by contractor.
- Install a concrete collar (12" wide X 4" thick) around existing pull box per City Standards.

TRAFFIC SIGNAL INTERCONNECT NOTES

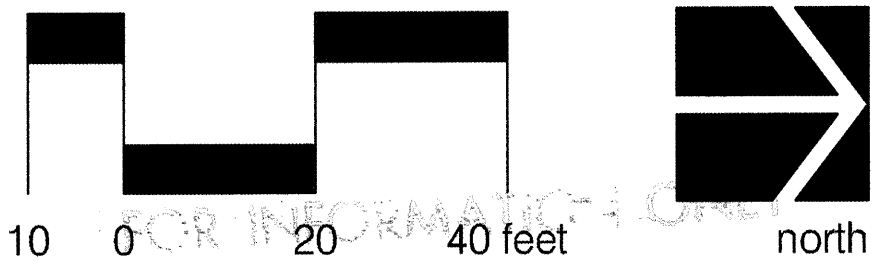
- Traffic signal interconnect conduit is shown schematically. Contractor shall be responsible for verifying exact location in the field.
- Contractor shall not disturb soil within 1' of the top or sides of conduit (see detail below). Within 2' of conduit, Contractor shall dig by hand only.
- If cable is damaged in conduit Contractor shall be responsible to supply and install a new interconnect cable between Indian School Road and Brentwood Hills Boulevard.



Traffic Signal Interconnect Conduit Detail

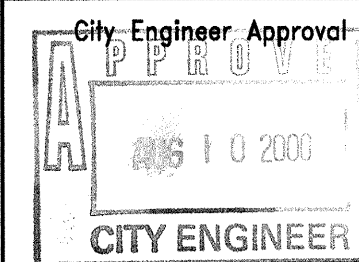
Scale: 3/8" = 1'-0"

FOR INFORMATION ONLY



CITY OF ALBUQUERQUE
CAPITAL IMPLEMENTATION PROGRAM

TITLE: JUAN TABO MEDIANS / INDIAN SCHOOL TO BRENTWOODS HILLS
PLANTING PLAN




Design Update	No. / Day / Yr.	No. / Day / Yr.

City Project No. 645891

Zone Map No. H-21

Sheet 3 of 5

ENGINEERS SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION		
		FIELD NOTES				CONTRACTOR		
		NO.	BY	DATE			WORK SCHEDULED BY	DATE
							RECEIVED BY	DATE
							ACCEPTANCE BY	DATE
							FIELD VERIFICATION BY	DATE
							DRAWINGS COMPLETED BY	DATE
							MICRO-FILM INFORMATION	
							RECORDED BY	DATE
							NO.	
		</						

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 STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.
18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
19. 48-HOURS PRIOR TO OCCUPANCY OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.
20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

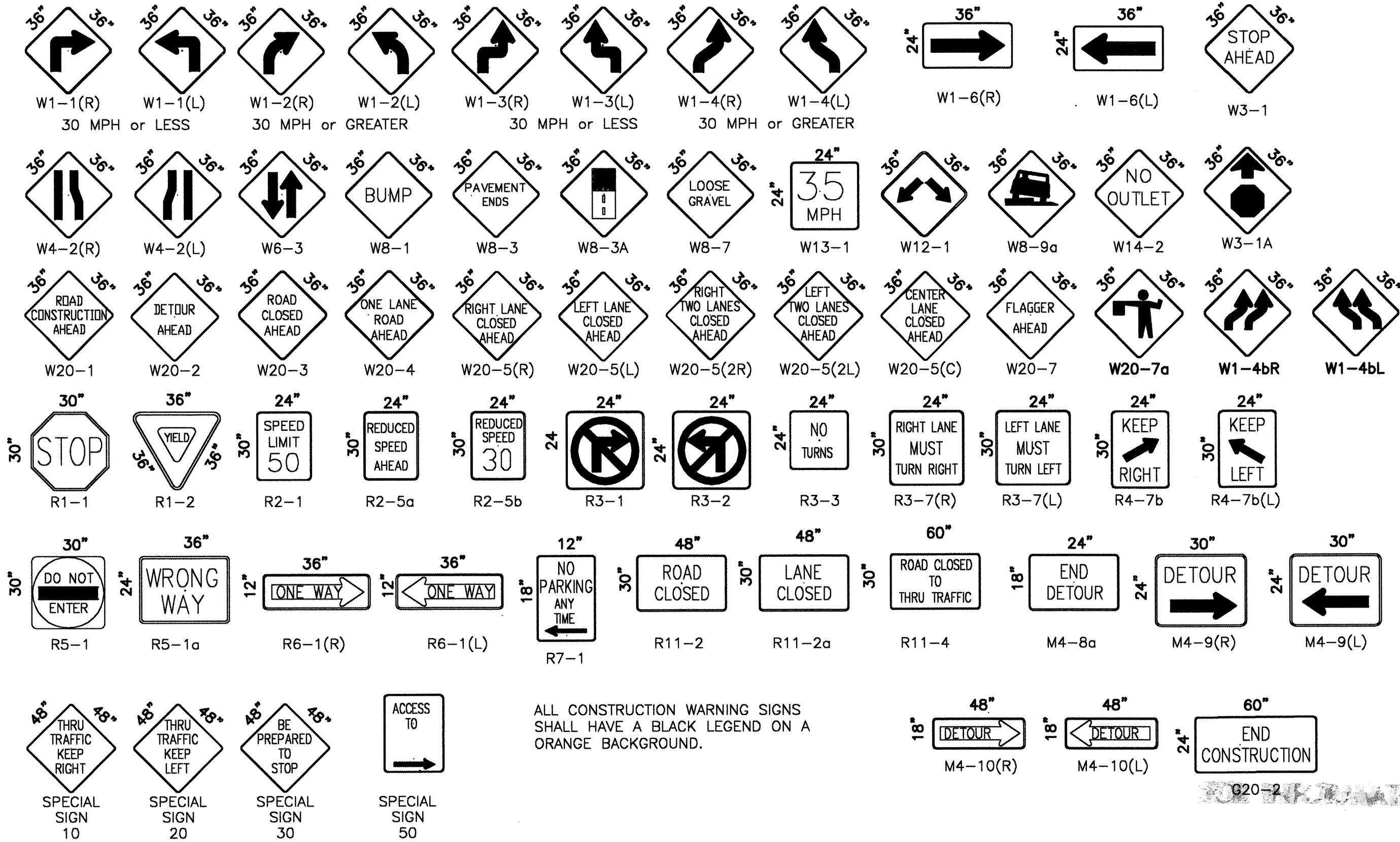
21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.
22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.
26. ADVANCE WARNING SIGNS SHALL BE 36"x36" WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48-INCH SIGN AS INDICATED IN THE MUTCD.
27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

SPECIAL PROJECT TRAFFIC CONTROL NOTES

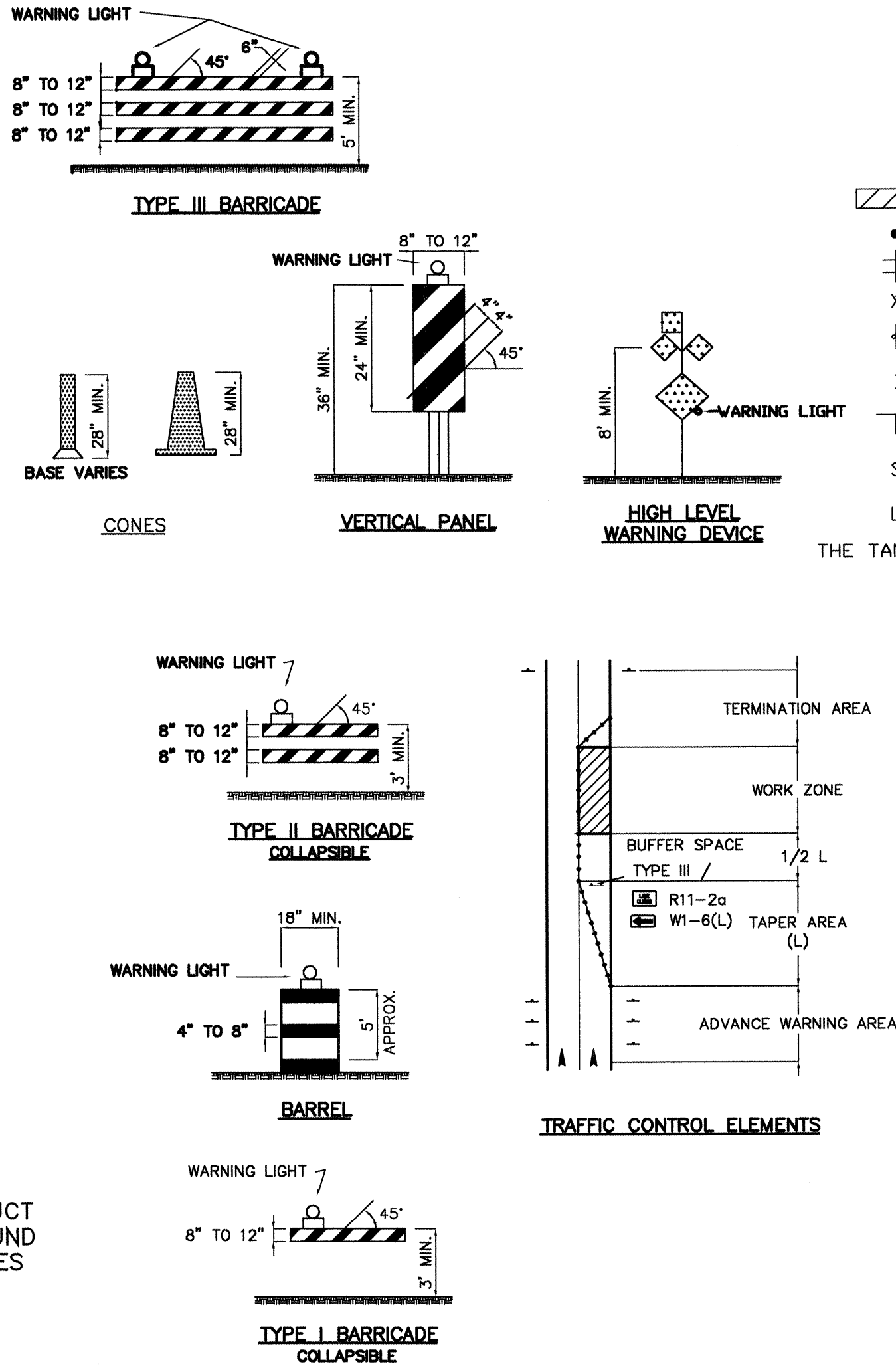
1. CONTRACTOR SHALL BE REQUIRED TO WORK FROM 7:00 AM TO 7:00 PM MONDAY THROUGH FRIDAYS.
2. CONTRACTOR SHALL REMOVE ALL LANE CLOSURES AT THE END OF EACH WORK SHIFT.

3. THE CONTRACTOR IS ALLOWED ONLY TYPICAL SINGLE LEFT LANE CLOSURES TO CONSTRUCT ALL OF THIS PROJECT, EXCEPT FOR INSTALLATION OF THE WATER SERVICE LINE. SOUTHBOUND LANE CLOSURES MUST NOT START UNTIL AFTER 9:00 AM; AND NORTHBOUND LANE CLOSURES MUST BE REMOVED BY 3:30 PM.
4. IF THE WATER LINE TIE-IN REQUIRES A DOUBLE LANE CLOSURE, THIS WORK MUST BE COMPLETED AT NIGHT BETWEEN 7:00 PM AND 5:00 AM.

SIGN FACE DETAILS



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



LEGEND

- WORK AREA
- BARRICADE - TYPE I, TYPE II, OR BARREL
- BARRICADE - TYPE III
- VERTICAL PANEL
- WARNING SIGN
- 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		BEFORE 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
DOWNSIDE 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	

FOR INFORMATION ONLY

		CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROGRAM	
TITLE: JUAN TABO MEDIANS/INDIAN SCHOOL TO BRENTWOOD HILLS SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS			
Design Review Committee	City Engineer Approval	Last Design Update	Mo. / Day / Yr.
City Project No.	645891	Zone Map No.	H-21
		Sheet	4 of 5

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