# MCDOT SIGNING AND PAVEMENT MARKING PLAN BROADWAY ROAD EAST OF AVONDALE BOULEVARD

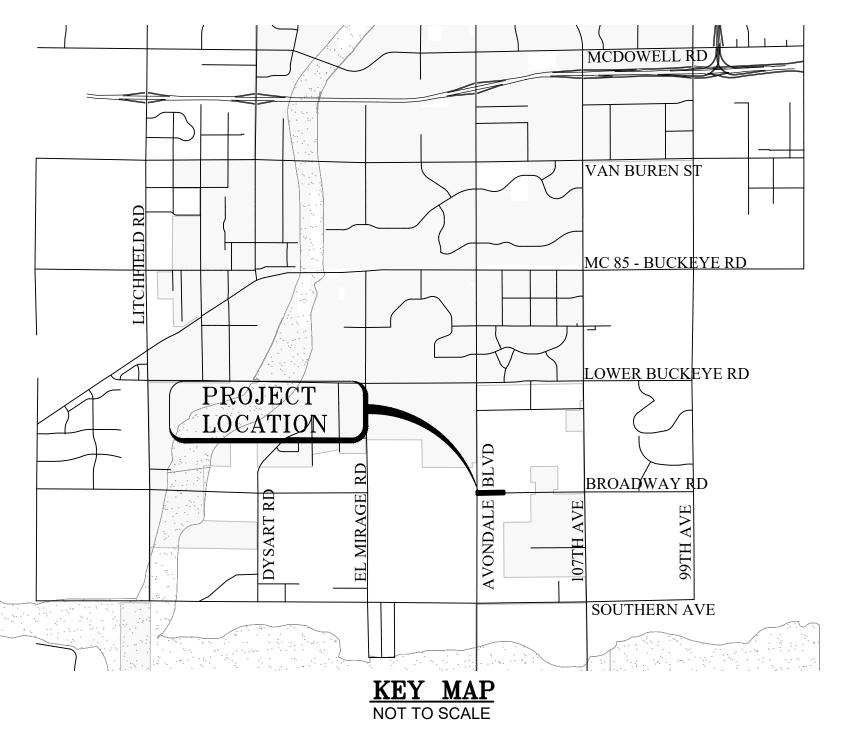
### MCDOT GENERAL PAVEMENT MARKING NOTES

- 1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A MCDOT APPROVED TRAFFIC CONTROL PLAN AND ALL TEMPORARY TRAFFIC CONTROL DEVICES NECESSARY FOR THE SAFETY OF THE PUBLIC AND WORKERS BEFORE ANY PAVEMENT MARKING LAYOUT BEGINS.
- 2. CONTRACTOR TO SPOT THE ENTIRE PROJECT BEFORE PAVEMENT MARKING. CONTRACTOR TO CALL MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION PROJECT INSPECTOR, TO MAKE ARRANGEMENTS FOR INSPECTION PRIOR TO APPLYING PAVEMENT MARKINGS. THE PERMANENT PAVEMENT MARKING PLANS MAY BE MODIFIED AS DIRECTED BY THE ENGINEER, OR HIS REPRESENTATIVE. ANY PAVEMENT MARKING APPLIED BEFORE LAYOUT APPROVAL BY INSPECTOR SHALL BE SUBJECT TO REMOVAL AND RESTRIPING AT THE CONTRACTOR'S EXPENSE.
- 3. ALL NO PASSING ZONES SHOWN ARE SUBJECT TO CHANGE IN THE FIELD BY THE COUNTY'S TRAFFIC ENGINEER, OR HIS REPRESENTATIVE. PAVEMENT MARKING QUANTITIES COULD VARY.
- 4. ALL PAVEMENT MARKING WILL BE DONE IN APPROVED THERMOPLASTIC MATERIALS. CROSSWALKS, STOP BARS, HOLDING BARS. ALL LONGITUDINAL LINES, SUCH AS LANE LINES, EDGE LINES, CENTER LINES AND TAPER LINES SHALL BE INSTALLED WITH A THICKNESS OF NINETY (90) MILS. PAVEMENT MARKING IN PAINT IF APPROVED SHALL BE INSTALLED WITH A THICKNESS OF FIFTEEN (15) MILS.
- 5. RAISED PAVEMENT MARKERS WILL BE INSTALLED ON THE NEW PAVEMENT IF RAISED PAVEMENT MARKERS ARE CURRENTLY EXISTING WITHIN THIS PROJECT.
- 6. WHEN PAVEMENT MARKING OBLITERATION IS NECESSARY, IT SHALL BE ACCOMPLISHED BY WATER BLASTING OR OTHER APPROVED METHODS. THE CONTRACTOR SHALL THEN SLURRY THE AREA AS PER M.A.G. STANDARD SPECIFICATION 715, WITH EMULSIFIED ASPHALT SLURRY SEALANT TYPE II OR AS DIRECTED BY THE PROJECT INSPECTOR. THE CONTRACTOR SHALL NOT INSTALL NEW PAVEMENT MARKINGS UNTIL THE SLURRY SEAL HAS CURED AT A MINIMUM OF 72 HOURS. PAINTING OVER PAVEMENT MARKINGS DOES NOT CONSTITUTE PAVEMENT MARKING OBLITERATION. PAVEMENT MARKING OBLITERATION MAY GO BEYOND DESIGNATED PROJECT LIMITS. PAVEMENT MARKING OBLITERATION SHALL EXTEND AS NEEDED TO ALLOW APPROPRIATE MATCHING OF THE NEW PAVEMENT MARKINGS WITH THE EXISTING PAVEMENT MARKINGS.
- 7. PAVEMENT MARKING DIMENSIONS ARE TO THE CENTER OF STRIPE FOR SINGLE LINES AND TO THE CENTER OF THE SPACE BETWEEN TWO LINES FOR DOUBLE LINES EXCEPT WHERE THERE IS CURB AND GUTTER THE DIMENSION IS TAKEN FROM THE FACE OF CURB.
- 8. ALL SYMBOLS AND WORD LEGENDS SHALL BE PREFORMED PAVEMENT MARKINGS PER THE SPECIFICATION SECTION 462.2.4.

- TO MCDOT AND OTHER INSPECTORS.
- GOVERNMENTS FOR WORK WITHIN THEIR JURISDICTION.
- OF ANY CONSTRUCTION AT (602) 506-8606.
- **BEGINNING CONSTRUCTION.**
- COMMENCEMENT OF ANY EARTHMOVING ACTIVITIES.
- INVESTIGATED BY THE ARIZONA STATE MUSEUM AND MCDOT.

## ALAMAR - PHASE 1

A PROPOSED SUBDIVISION OF A PORTION OF THE SOUTHEAST QUARTER OF SECTION 24 AND NORTH HALF OF SECTION 25, TOWNSHIP 1 NORTH, RANGE 1 WEST, OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA



### MCDOT GENERAL NOTES FOR RIGHT-OF-WAY PERMITS

1. ALL WORK SHALL CONFORM TO THE REVISED EDITION OF THE UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION PUBLISHED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) AS AUTHORIZED AND MODIFIED BY THE MOST CURRENT MCDOT SUPPLEMENT TO THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS AND NON-CONFLICTING PROJECT SPECIAL PROVISIONS. ALL WORK MUST ALSO COMPLY WITH RESOLUTION 2001-01 MARICOPA COUNTY RESOLUTION FOR PERMITS TO WORK IN DEDICATED RIGHT-OF-WAY AND RESOLUTION 2001-02 MARICOPA COUNTY RESOLUTION FOR STREET IMPROVEMENTS, INSTALLATION OF UTILITIES AND TRAFFIC CONTROL. ANY EXCEPTIONS MUST RECEIVE EXPLICIT APPROVAL FROM MCDOT AND SHALL BE IDENTIFIED ON THE PLANS AS HAVING EXPLICIT APPROVAL FROM MCDOT. ALL CLEAR ZONE HAZARDS SHALL BE MITIGATED IN A MANOR APPROVED BY MCDOT AT NO COST TO THE COUNTY.

2. THE ENGINEERING DESIGNS ON THESE PLANS ARE ONLY APPROVED BY MCDOT IN CONCEPT AND NOT IN DETAIL. CONSTRUCTION QUANTITIES ON THESE PLANS ARE NOT VERIFIED BY MCDOT. APPROVAL OF THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT MCDOT FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE, HEALTH, SAFETY, THE MCDOT ROADWAY DESIGN MANUAL, OR OTHER DESIGN ISSUES.

3. AN APPROVED SET OF PLANS SHALL BE ON THE SITE DURING CONSTRUCTION AND AVAILABLE

4. ALL BOX CULVERTS CONSTRUCTED IN THE PUBLIC RIGHT-OF-WAY SHALL COMPLY WITH ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) LATEST DESIGN SPECIFICATIONS AND STANDARDS. MINIMUM CLEAR HEIGHT OF BOX CULVERT SHALL BE 4 FEET.

5. CONTRACTOR TO OBTAIN MCDOT PERMITS PRIOR TO CONSTRUCTION WITHIN COUNTY RIGHT-OF-WAY, AND ALL NECESSARY PERMITS FROM OTHER AGENCIES AND FROM LOCAL

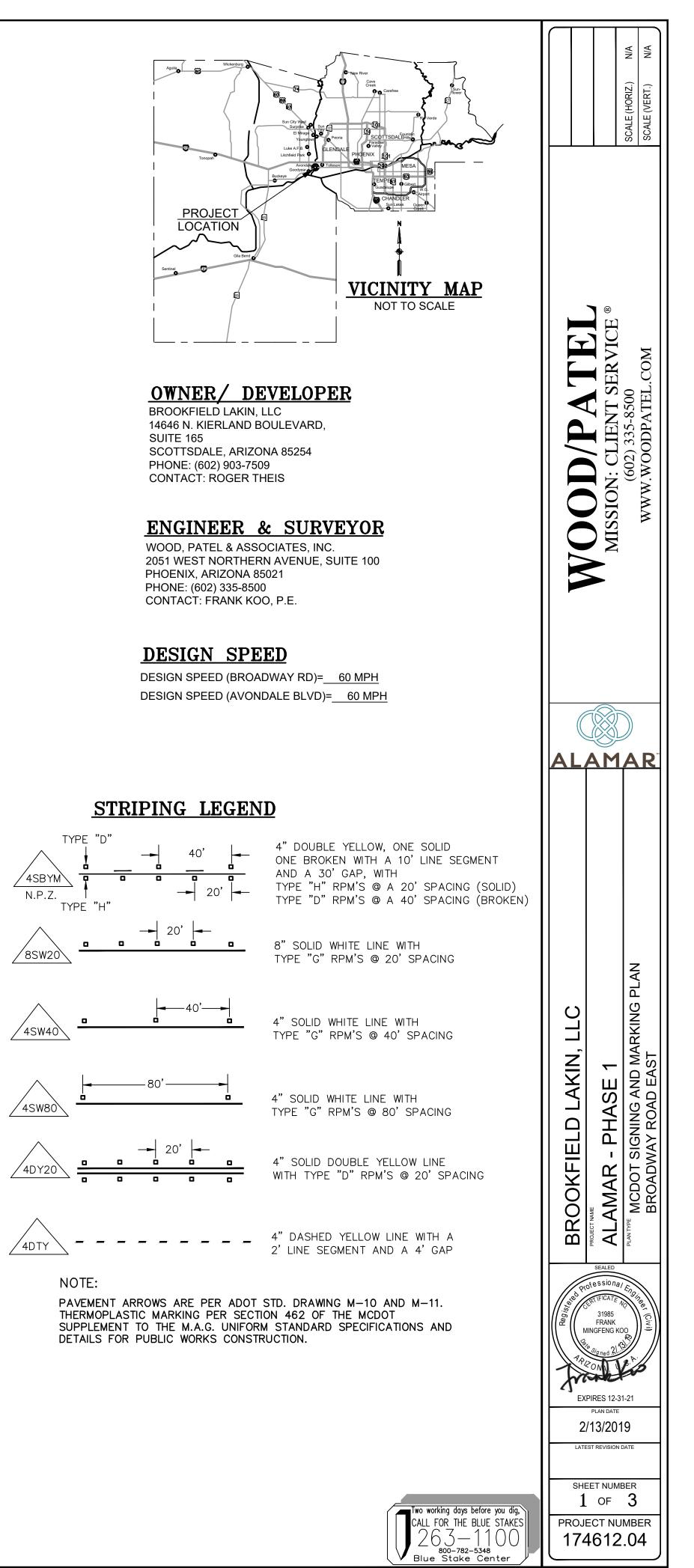
6. CONTRACTOR SHALL NOTIFY THE MCDOT INSPECTION DEPT. AT LEAST 24 HOURS IN ADVANCE

7. CONTRACTOR PERFORMING CONSTRUCTION OR EXCAVATING OPERATIONS IS RESPONSIBLE FOR LOCATING AND RELOCATING ALL UTILITIES IN CONFLICT AT NO EXPENSE TO MARICOPA COUNTY. THE CONTRACTOR SHALL CONTACT "BLUE STAKE" AT (602) 263-1100 PRIOR TO

8. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY REQUIRED PERMITS FOR EARTH MOVING FROM MARICOPA COUNTY AIR QUALITY DEPARTMENT'S DUST COMPLIANCE DIVISION (602) 506-6010 PRIOR TO CONDUCTING EXCAVATION OPERATIONS. A COPY OF THE PERMIT AND DUST CONTROL PLAN SHALL BE SUBMITTED TO THE COUNTY ENGINEER PRIOR TO

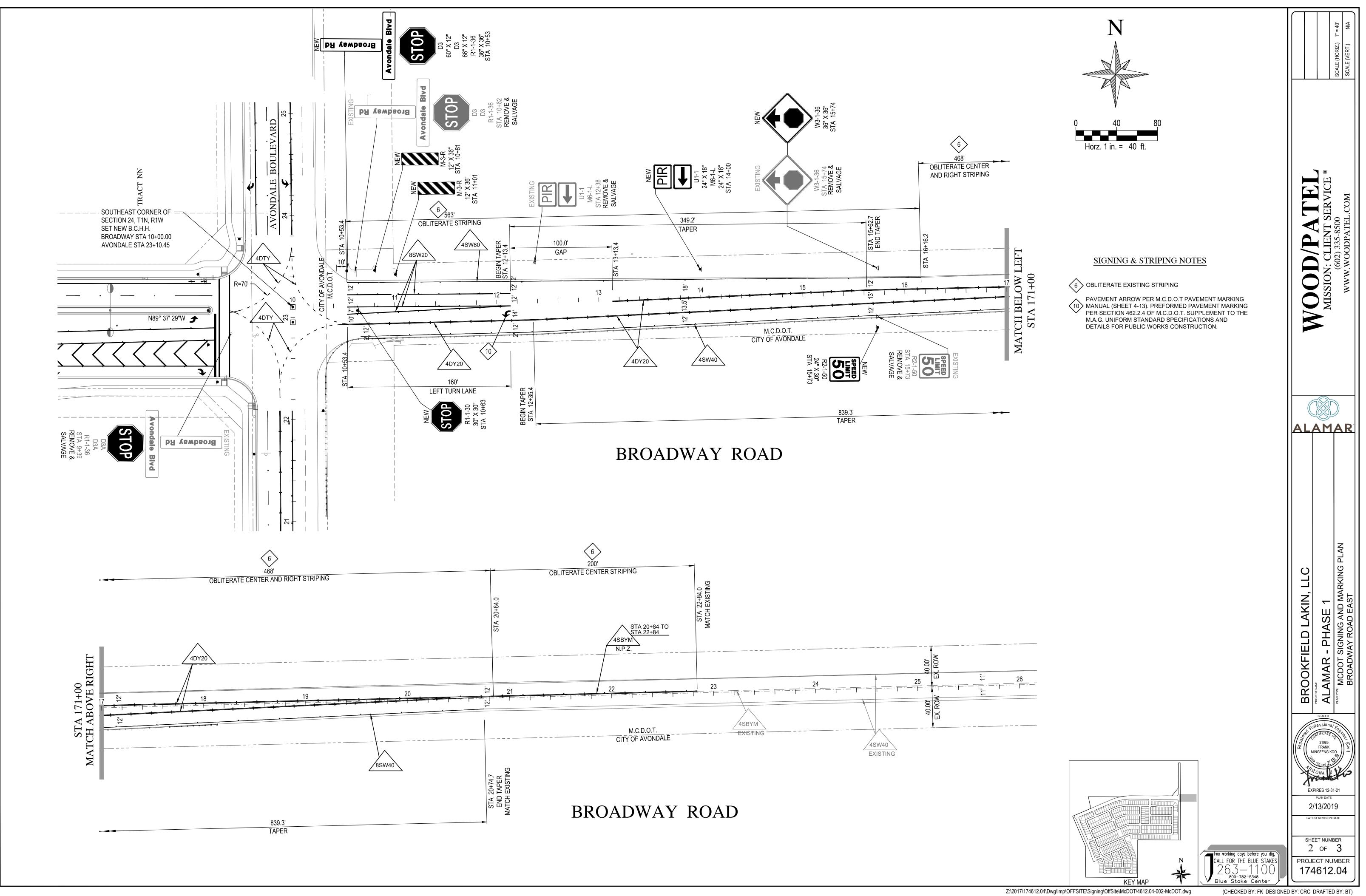
9. PRIOR TO CONDUCTING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL OBTAIN FROM THE ARIZONA STATE HISTORICAL PRESERVATION OFFICER (602) 542-4009. RECOMMENDATIONS REGARDING THE NEED FOR CULTURAL RESOURCES (ARCHAEOLOGICAL) CLEARANCE. ALL DISCOVERIES OF HUMAN REMAINS, CULTURAL ARTIFACTS, OR PALEONTOLOGICAL REMAINS SHALL BE REPORTED TO THE ARIZONA STATE MUSEUM AND MCDOT. UPON DISCOVERY, CONTRACTOR SHALL CEASE OPERATIONS IN THE VICINITY OF THE FIND AND PROTECT THE DISCOVERY AREA FROM FURTHER DISTURBANCE UNTIL THE FIND CAN BE PROFESSIONALLY

- 10. EXCEPT UNDER EMERGENCY CONDITIONS, ROADS SHALL NOT BE CLOSED FOR CONSTRUCTION ACTIVITY UNLESS PRIOR APPROVAL IS OBTAINED FROM THE MCDOT TRANSPORTATION DIRECTOR OR HIS REPRESENTATIVE.
- 11. PRIOR TO MOVING OR DESTROYING PROTECTED NATIVE PLANT SPECIES, THE CONTRACTOR SHALL FILE A FORMAL NOTICE OF INTENT WITH THE ARIZONA DEPARTMENT OF AGRICULTURE NATIVE PLANTS (602) 542-6408.
- 12. PRIOR TO INSTALLATION OF CURB, GUTTER, SIDEWALK, BASE COURSE AND WEARING SURFACE, SUBMIT SOIL TEST(S) OF SUBGRADE AND REVISED PAVEMENT DESIGN/CALCULATIONS TO MCDOT FOR REVIEW AND APPROVAL. IF SUBGRADE STABILIZATION IS REQUIRED. THE AREA STABILIZED SHALL BE FROM BACK OF SIDEWALK TO BACK OF SIDEWALK AND MATCH THE STABILIZATION DEPTH OF THE PAVEMENT STRUCTURE.
- 13. ASPHALT MIX DESIGN SHALL BE SUBMITTED TO MCDOT A MINIMUM OF 48 HOURS PRIOR TO PLACING ANY ASPHALT COURSES. (TRENCH WORK EXCLUDED.) ALL PAVED TURNOUTS SHALL HAVE THE SAME ASPHALT AND BASE REQUIREMENTS AS THE ADJACENT ROADWAY UNLESS NOTED OTHERWISE.
- 14. ALL COMPACTION AND BACKFILL WITHIN COUNTY RIGHT-OF-WAY SHALL CONFORM TO THE MCDOT SUPPLEMENT TO MAG SPECIFICATION SECTION 601. BACKFILL UNDER EXISTING PAVEMENT, CURB AND GUTTER, ROADWAY SHOULDERS, AND UNPAVED ROADWAYS SHALL CONSIST OF ONE-HALF (1/2) OR ONE SACK CLSM. UNPAVED ROADWAY AREAS INCLUDE THE TRAVELLED WAY PLUS FIVE FEET BEYOND THE TRAVELED WAY.
- 15. ALL STRUCTURES, SUCH AS MANHOLES, VALVE BOX & COVERS, AND MONITORING WELLS MUST BE MARKED WITH AT LEAST TWO REFLECTIVE YELLOW FLEX POSTS WHEN STRUCTURES ARE LOCATED OUTSIDE THE TRAVELED WAY AND WITHIN THE RIGHT-OF-WAY. (APPLIES ONLY WHEN THERE IS NO CURB.)
- 16. PAVEMENT WIDENING AND PAVEMENT REPLACEMENT SHALL CONFORM TO REQUIREMENTS OF SPECIFICATION SECTION 336. PAVEMENT CUTS SHALL NOT BE LOCATED WITHIN A LANE WHEEL PATH. THE LANE WHEEL PATH IS THE ENTIRE LANE WIDTH EXCEPT THE AREA WITHIN ONE FOOT OF A LANE LINE STRIPE AND EXCEPT THE CENTER TWO FEET OF THE TRAVEL LANE.
- 17. ALL EXISTING PAVEMENT MARKINGS, TRAFFIC SIGNS AND SIGNAL EQUIPMENT THAT NEED TO BE REMOVED, REPLACED, RELOCATED OR REPAIRED BECAUSE OF CONTRACTOR'S WORK WILL BE DONE BY THE CONTRACTOR AT HIS EXPENSE. ALL SALVAGED SIGNS SHALL BE DELIVERED TO THE TRAFFIC OPS BUILDING AT 2909 W. DURANGO ST. ARRANGEMENTS CAN BE MADE FOR DELIVERY BY CALLING (602) 506-8662. ALL NEW STREET NAME SIGNS SHALL BE PROVIDED AND INSTALLED BY PERMITTEE AT NO EXPENSE TO MARICOPA COUNTY.
- 18. PAVEMENT MARKING, SIGNING AND SIGNAL WORK WILL BE INSPECTED AND SHALL MEET COUNTY STANDARDS BEFORE RELEASE OF BOND.
- 19. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY TO A CONDITION EQUAL TO OR BETTER THAN PRIOR EXISTING CONDITIONS PER MAG 107.9. DISPOSAL OF ALL WASTE MATERIAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.



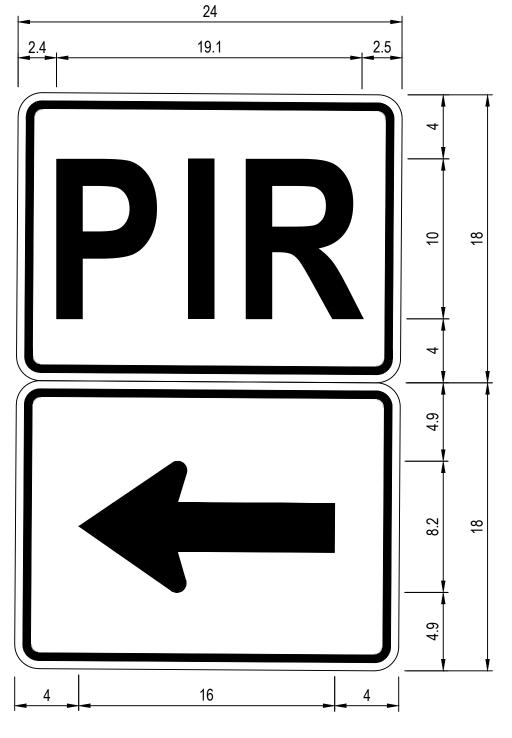
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(CHECKED BY: FK DESIGNED BY: CRC DRAFTED BY: BT)



### SIGNING SUMMARY (MARICOPA COUNTY RIGHT OF WAY)

STA	SIGN CODE	WORK				OFFSET FROM		PANEL										
			EXIS	TING		BC/EOP			SIGN SIZE		SHEETING TYPE		- GROUND MOUNT PC				POSTS	
		NEW	RELOCATE	REMOVE & SALVAGE	SEE REMARKS	LT (FT)	RT (FT)	LEGEND	WIDTH	HEIGHT (IN)	AREA (SQ.FT.)		NO.	TYPE (LENGTH)		FOUNDATIONS		REMARKS
									(IN)		н	D	POSTS	P (FT)	U (FT)	P (EA)	U (EA)	
BROADWA	AY RD (EAST (	of avone	DALE BLVD)															
9+39	D3A			X				Broadway Rd										
9+39	D3A			X				Avondale Blvd										
9+39	R1-1-36			X				STOP										
10+53	D3	Х				12		Broadway Rd	60	12		5.0						
10+53	D3	Х			Х	12		Avondale Blvd	66	12		5.5						MOUNT BELOW D3
10+53	R1-1-36	Х			Х	12		STOP	36	36		9	1	12		1		MOUNT BELOW D3
10+62	D3			X				Broadway Rd										
10+62	D3			X				Avondale Blvd										
10+62	R1-1-36			X				STOP										
10+63	R1-1-30	Х			Х			STOP	30	30		6.25	1	11.5		1		IN PAINTED V ISLAND
10+81	M-3-R	Х				12		OBJECT MARKER	12	36	3		1	9		1		
11+01	M-3-R	Х				8		OBJECT MARKER	12	36	3		1	9		1		
12+38	U1-1			X				PIR										
12+38	M6-1-L			X				RIGHT ARROW										
14+00	U1-1	Х			Х	12		PIR	24	18		3	1	11		1		BLACK ON ORANGE
14+00	M6-1-L	Х			x	12		RIGHT ARROW	24	18		3						MOUNT BELOW U1-1 BLACK ON ORANGE
15+73	R2-1-50			Х				SPEED LIMIT (50)										
15+73	R2-1-50	Х					12	SPEED LIMIT (50)	24	30	5		1	11.5		1		
15+74	W3-1-36			Х				STOP AHEAD										
15+74	W3-1-36	Х				12		STOP AHEAD	36	36		9	1	13		1		
											11	40.75	7	77		7		TOTAL



1.5" Radius, 0.5" Border, 0.5" Indent, Black on Orange; "PIR" D 2K; 1.5" Radius, 0.5" Border, 0.5" Indent, Black on Orange; Standard Arrow Custom 16.0" X 8.1" 180°;

### SIGN DETAIL



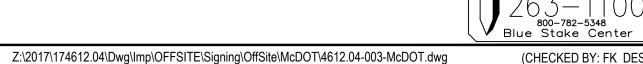
- 1. INSTALLATION OF ALL SIGNS SHALL BE IN COMPLIANCE WITH THE MCDOT SUPPLEMENT TO THE MARICOPA ASSOCIATION OF GOVERNMENTS' (MAG) UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION; SECTIONS 464 AND 465, THESE PLANS AND THE SPECIAL PROVISIONS.
- 2. ALL STATION LOCATIONS AND OFFSETS SHOWN ON THE SIGNING PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL MARK ALL SIGN LOCATIONS AND CONTACT THE MCDOT PROJECT INSPECTOR, TO COORDINATE INSPECTION WITH THE COUNTY'S TRAFFIC ENGINEER, OR HIS REPRESENTATIVE PRIOR TO ANY PERMANENT SIGN INSTALLATION. ALL SIGNING INSTALLED PRIOR TO INSPECTION, IF MODIFICATION IS REQUIRED, SHALL BE REMOVED AND REINSTALLED AT THE CONTRACTOR'S EXPENSE. PERMANENT SIGNING MAY BE MODIFIED AS DIRECTED BY THE COUNTY'S TRAFFIC ENGINEER OR HIS REPRESENTATIVE.
- 3. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL TRAFFIC CONTROL SIGNING, PERFORATED POSTS, U-CHANNEL POSTS, AND FOUNDATIONS FOR THE SIGN POSTS, AT APPROVED LOCATIONS. ALL TRAFFIC SIGNS SHALL BE ATTACHED TO THE STREET LIGHT POLES IF THE POLE IS WITHIN 25 FEET OF THE SIGN LOCATION AS SHOWN ON THE PLANS. ANY QUESTIONS CONCERNING SIGNING, CONTACT THE PROJECT INSPECTOR.
- 4. STANDARD OFFSET FOR ALL SIGNS IS 12 FEET FROM THE NEAR EDGE OF SIGN TO THE EDGE OF PAVEMENT WITHOUT CURB AND GUTTER, AND 2 FEET MINIMUM FROM THE NEAR EDGE OF SIGN TO THE FACE OF CURB WITH CURB AND GUTTER. THE SIGN HEIGHT, MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE ELEVATION OF THE NEAR EDGE OF THE PAVEMENT SHALL BE 5 FEET FOR RURAL AND 7 FEET FOR URBAN AREAS.
- 5. ALL FACE OF BOLTS AND NYLON WASHERS USED FOR MOUNTING SIGNS SHALL MATCH THE COLOR IN THE PART OF THE SIGN PANEL IN WHICH THEY ARE TO BE PLACED.
- 6. POST LENGTHS INDICATED ON THE SIGN SUMMARY SHEETS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ACTUAL POST LENGTHS.
- 7. ALL POSTS, FOUNDATIONS, AND SIGN PANELS SHALL BE NEW UNLESS OTHERWISE DIRECTED.
- 8. ALL STREET NAME SIGN INSTALLATIONS SHALL BE IN CONFORMANCE WITH MCDOT STANDARD DETAILS 2054-1 OR 2054-2. METRO STREET SIGNS SHALL CONFORM TO MCDOT STANDARD DETAIL 4780-2 UNLESS OTHERWISE NOTED.
- 9. ALL FOUNDATIONS FOR PERFORATED POSTS SHALL BE IN CONFORMANCE WITH MCDOT STANDARD DETAIL 2058.
- 10. ALL U-CHANNEL POSTS INSTALLATIONS SHALL BE IN CONFORMANCE WITH MCDOT STANDARD DETAIL 2059.
- 11. ALL SIGNS SHALL BE MADE OF FLAT SHEET ALUMINUM PANELS UNLESS OTHERWISE DIRECTED WITH THE RETROREFLECTIVE SHEETING AND DIRECT APPLIED OR SILK SCREENED CHARACTERS PER SECTIONS 465.2.3 AND 465.2.4 OF THE MCDOT SUPPLEMENT TO THE MARICOPA ASSOCIATION OF GOVERNMENTS' (MAG) UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 12. SIGNS THAT NEED TO BE REMOVED DURING CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR. THE CONTRACTOR SHALL REMOVE ALL PERMANENT SIGNING THAT IS NO LONGER APPLICABLE AND STORE SIGN PANELS AND POSTS IN THE CONTRACTOR'S ON-SITE CONSTRUCTION YARD. CONTRACTOR SHALL SCHEDULE WITH INSPECTOR THE DELIVERY OF SALVAGED SIGNING MATERIAL (SIGN PANELS & POSTS, ETC.) TO 2909 W. DURANGO ST.

H= HIGH INTENSITY PRISMATIC SHEETING

P= PERFORATED POSTS U= U-CHANNEL POST

D= DIAMOND GRADE SHEETING

DESIGN SPEED (BROADWAY RD)= 60 MPH



(CHECKED BY: FK DESIGNED BY: CRC DRAFTED BY: BT)

Two working days before you dig,

