

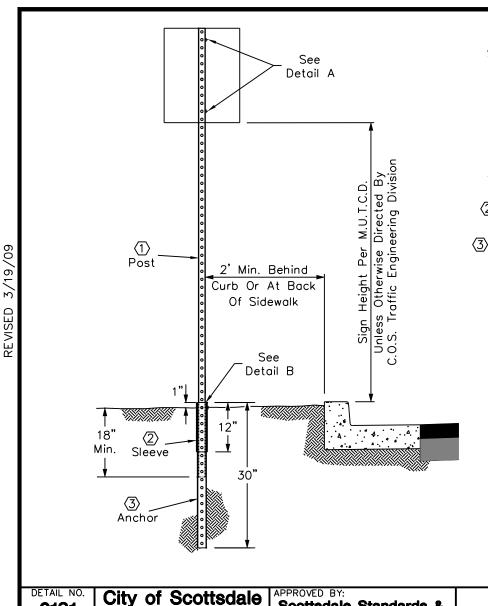
- 1. TYPE "E" TO BE USED AT INTERSECTIONS OF MAJOR STREETS, COLLECTOR STREETS, SECTION AND QUARTER SECTION CORNERS PER ARS 33-103. CONCRETE POST IS CHAMFERED 3/4" AT TOP.
- 2. TYPE "D" TO BE USED AT 1/6TH CORNERS, INTERSECTIONS OF STREET CENTERLINES (EXCEPT WHERE TYPE "E" IS SPECIFIED), CORNERS OR CHANGES IN ALIGNMENT OF SUBDIVISION BOUNDARIES WITHIN THE ASPHALT SECTION, PC'S & PT'S OF ALL CURVES. AND PI'S WHEN WITHIN THE PAVED SECTION.
- 3. TYPE "C" TO BE USED AT CORNERS OF, AND CHANGE IN ALIGNMENT OF, SUBDIVISION BOUNDARIES WHERE CORNERS OR CHANGE POINTS FALL OUTSIDE OF PAVED AREAS OR IN ALLEYS.
- 4. WHEN MONUMENTS (BRASS CAP, HAND HOLE AND SECTION CORNERS, ETC.) DESCRIBED IN NOTES #1, #2 & #3 WILL BE DISTURBED DURING CONSTRUCTION, A "RESULTS OF SURVEY" WILL BE PREPARED BY A REGISTERED LAND SURVEYOR TO PRESERVE THE LOCATION, SEE MAG SECTION 405 FOR GUIDANCE. IN ALL CASES WHEN MONUMENTS ARE "SET", A RESULTS OF SURVEY SHALL BE RECORDED.
- 5. SECTION CORNERS, 1/4 CORNERS AND WHEN APPLICABLE. STAMP THE APPROPRIATE PUBLIC LAND MARKINGS PER CURRENT MANUAL OF INSTRUCTIONS FOR THE SURVEY OF THE PUBLIC LANDS OF THE UNITED STATES, PREPARED BY THE BUREAU OF LAND MANAGEMENT.
- 6. IN ALL CASES, THE POINT SURVEYED SHALL BE IDENTIFIED BY A PUNCH MARK AND IN ADDITION THE CAP SHALL BE STAMPED WITH THE REGISTERED LAND SURVEYOR (RLS) REGISTRATION NUMBER AND YEAR.
- 7. CAP TO BE CONSTRUCTED OF RED BRASS OR BRONZE. LETTERS TO BE 1/4" HIGH, APPROX. 1/32" WIDE, 1/32" DEEP AND 1/16" BORDER FROM EDGE OF CAP TO TOP OF LETTERING.
- 8. ALL COVERS INSTALLED, ADJUSTED OR REPLACED DURING CONSTRUCTION SHALL READ "SURVEY" PER MAG 270 AND ADJUSTED PER COS STANDARD DETAIL 2270.

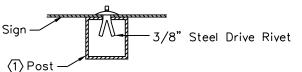
City of Scottsdale Standard Details

Scottsdale Standards & **Specifications Committee** **SURVEY MARKER**

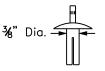
DETAIL NO.

2120





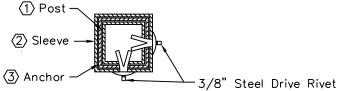
Detail A Sign Mounting



3/8" Steel Drive Rivet

Note: Aluminum rivets are

not acceptable.



Detail B Anchor Assembly

Legend

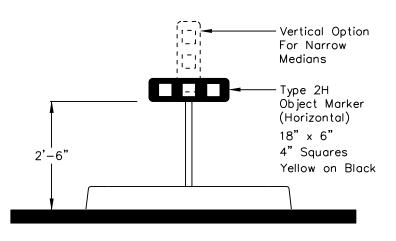
- $\langle 1 \rangle$ Post 1-3/4" x 1-3/4" Square Perforated 0.105" Galvanized Steel Tubing (Green Finish)
- $\langle 2 \rangle$ Sleeve 2-1/4" x 2-1/4" x 12", Square Perforated 0.105 Galvanized Steel Tubing
- $\langle \overline{3} \rangle$ Anchor 2" x 2" x 30", Square Perforated 0.105" Galvanized Steel Tubing

NOTE:

1. Sign Post, Sleeve And Anchor Shall Be As Per COS Specification Section 402.3

2131 Standard Details

Scottsdale Standards & **Specifications Committee** SIGN POST INSTALLATION



TYPE "B"

(ALL OTHER MEDIANS)

TYPE "A"

(AT SIGNALIZED INTERSECTIONS
OR AS SHOWN ON PLANS AND FIRST &
LAST NOSE ON A STRING OF MEDIANS)

NOTES:

- 1. See COS Std Det 2225 Or 2226 For Typical Location.
- 2. Sign Posts Per COS Std Det 2131.

DETAIL NO. **2133-1**

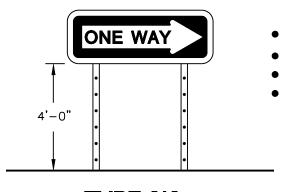
REVISED 2/3/10

City of Scottsdale Standard Details APPROVED BY:

Scottsdale Standards & Specifications Committee

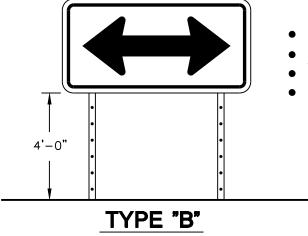
MEDIAN NOSE SIGNING - TYPE A&B

DETAIL NO. **2133-1**



- R6-1R or R6-1L
- 12" x 36" blank size
- 0.125 blank type
- Black legend and background, white arrow

TYPE "A"



- W1-6R or W1-6L, or W1-7 (double arrow)
 24" x 48" or 30" x 60" blank sizes
- 0.125 blank type
- Black arrow and border, yellow background

- 1. Sign posts per COS Std. Detail 2131
- 2. Sign sheeting per COS Supplemental Specs. Section 402.3.

2133-2

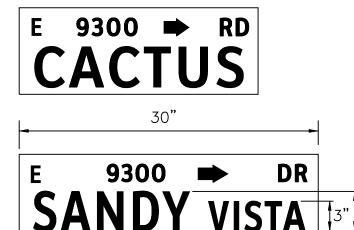
City of Scottsdale Standard Details

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MEDIAN OR SHOULDER SIGNING

DETAIL NO. 2133-2





TYPE A SIGNS

ASTM Type IV Sheeting Green/White (2 Sides)

Typeface: Clearview 2-W

Blank Sizes: 9"x 24", 9"x 30"

9"x 36", 9"x 42"

Blank Type: .091 extruded aluminum

Sign imaging: must meet FWHA standards and must be acrylic based electronic cuttable film (1170 series or equivalent) or silk screen ink. All inks and films shall be graffiti resistant.

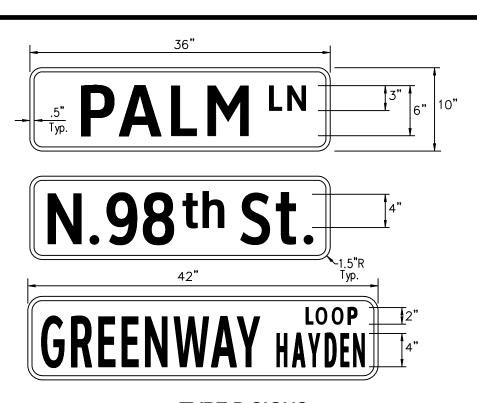
Intended Usage: Type "A" Street Name Signs shall be used in residential areas where Residential Streets intersect with Local Collector Streets. See the COS General Plan for Street Designations.

Arrows on sign panels typically point north or east in the direction of increasing address number.

DETAIL NO. | 2134-1 City of Scottsdale Standard Details APPROVED BY:
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STREET NAME SIGNS - TYPE A

2134-1



TYPE B SIGNS

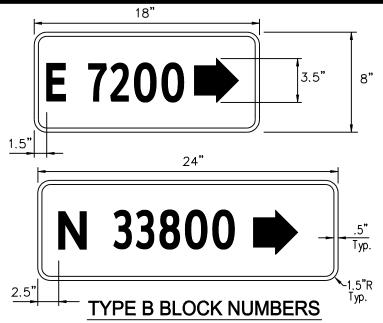
ASTM Type IV Reflective Sheeting

Green/White (2 Sides) Typeface: Clearview 2-W

Blank Sizes: 10"x 36", 10"x 42"

Blank Type: 0.125 treated aluminum

Intended Usage: Type "B" Street Name Signs shall be used where a Residential Street or a Local Collector Street intersects with a street with a classification of Major Collector or larger. See the COS General Plan for Street Designations.



ASTM Type IV Reflective Sheeting

Green/White (2 Sides)

Typeface: Clearview 2-W

Blank Sizes: 8"x 18", 8"x 24"

Blank Type: 0.125 treated aluminum

Type "B" Block Numbers to be mounted with Type "B" Street Name Signs. They shall be mechanically attached to the top of the Type B Street Name Sign using FHWA approved aluminum sign mounting brackets.

Sign imaging: Must meet FWHA standards. Must be acrylic based electronic cuttable film (1170 series or equivalent) or silk screen ink. All inks and films shall be graffiti resistant.

Arrows on sign panels typically point north or east in the direction of increasing address number.

City of Scottsdale Scottsdale Standards & Specifications Committee

STREET NAME SIGNS - TYPE B

DETAIL NO. 2134-2



SIGN FORMAT EXAMPLE FOR OPPOSING TRAFFIC

← 9600 E 11400 N **Via Linda**

Sign facing SB traffic

18" METRO SIGNS

Proposed ASTM Type XI Reflective Sheeting

Green/White (1 Side)

Typestyle: Clearview 2-W or 3-W

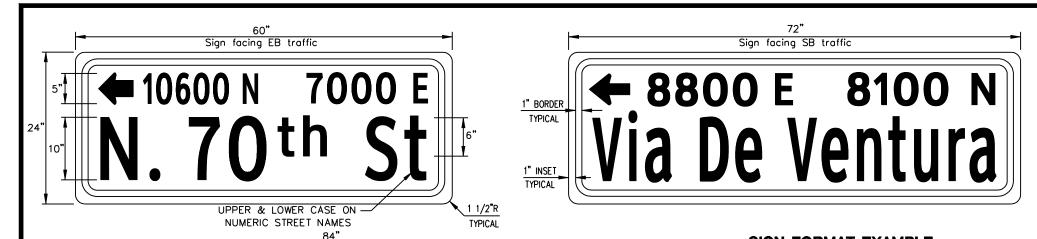
Blank Sizes: 18" x 48", 18" x 60", 18" x 72"

Blank Type: 0.080 Treated Aluminum

Intended Usage: 18" Metro Street Name Signs shall be used on signnalized minor roads with a speed limit of 35MPH or lower. See the COS General Plan for Street

Designations.

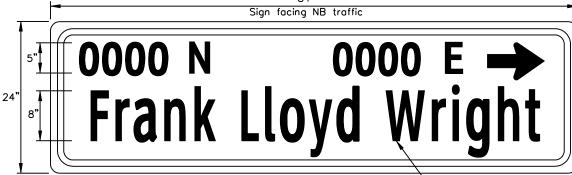
Arrows on sign panels typically point north or east in the direction of increasing address number.



For street names that would exceed maximum length sign

blank use 8" upper and lower

case letters



24" METRO SIGNS

Proposed ASTM Type XI Reflective Sheeting Green/White (1 Side)

Typestyle: Clearview 2-W or 3-W

Blank Sizes: 24" x 60", 24" x 72", 24" x 84"

Blank Type: 0.125 Treated Aluminum

Intended Usage: 24" Metro Street Name Signs shall be used on signalized major roads with a speed limit of 35MPH or higher. See the COS General Plan for Street Designations. Sign imaging: Must meet FHWA standards. Must be acrylic based electronic cuttable film (1170 series or equivalent) or silk screen ink. All inks and films shall be graffiti resistant.

SIGN FORMAT EXAMPLE FOR OPPOSING TRAFFIC

10600 N →

Sign facing WB traffic

ia De Ventura

Sign facing NB traffic

← 0000 E 0000 N Frank Lloyd Wright

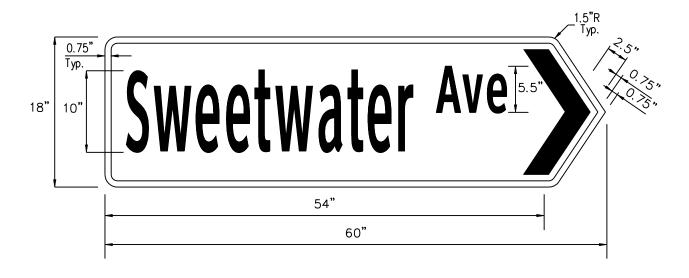
Sign facing SB traffic

Arrows on sign panels typically point north or east in the direction of increasing address number.

City of Scottsdale Scottsdale Standards & Specifications Committee

STREET NAME SIGNS - 24" METRO

DETAIL NO. 2134-4

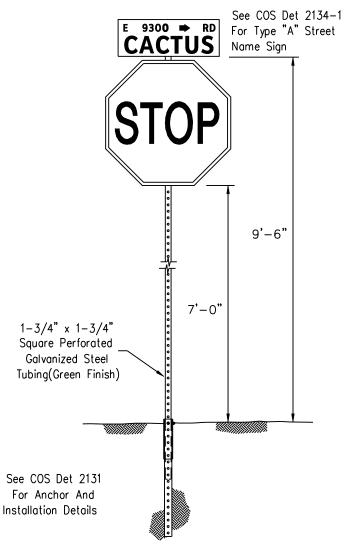


Blank Type: 0.100 gauge treated aluminum Sheeting: ASTM Type IV - green background Typestyle: Clearview 2-W upper and lower case

Legend and Border: White

City of Scottsdale Scottsdale Standards & Specifications Committee

DIRECTIONAL STREET NAME SIGN 2134-5



Street name sign and stop sign mounting height shall be measured from adjacent grade of sidewalk, top of curb or top of nearest pavement.

When no stop sign is required, the street name sign is mounted at 9 feet 6 inches.

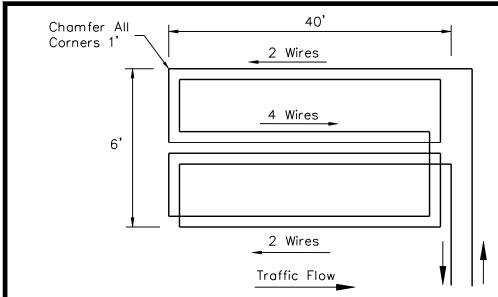
When two street name signs are mounted one on top of the other, the height is measured to the bottom sign.

2135

City of Scottsdale Standard Details

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STREET NAME SIGN WITH STOP SIGN INSTALLATION



Chamfer All 40' Corners 1' 3 Wires 6' Traffic Flow

QUADRUPOLE LOOP DETECTOR For Left Turn Lanes Only

NOTES:

- 1. All loop detectors shall be wire—in—duct type wire. (Detect—a—Duct or approved equivalent, #14 stranded inside a 1/4" PVC tubing (IMSA 51-5).
- 2. All loop detectors shall be centered in the middle of the applicable traffic lane. Loop shall be sufficiently dimensioned on the plans. Loop detectors shall extend five feet into the crosswalk unless directed otherwise by the Traffic Engineering Department.
- 3. A rectangular loop with 3 turns (6 feet x 40 feet) shall be used for all through lanes.
- 4. A quadrupole loop with 2 outside turns and 4 inside turns (6 feet x 40 feet) shall be used in all exclusive left—turn lanes. (Wire in middle cut shall run the same direction.
- 5. Loop detectors shall not be installed in exclusive right turn lanes.
- 6. The location of permanent count detector loops shall be specified by the Traffic Engineering Department. Count detector loops shall consist of a minimum of 4 turns (6 feet x 6 feet).

7. Pre-formed loop detectors conforming to the latest ADOT specifications shall be used under decorative pavement, "pavers", concrete, or other "special" roadway surfaces, or as directed by the Traffic Engineering Department.

STANDARD LOOP DETECTOR

- 8. Lead—in cable between loop wire and controller shall be latest ADOT specification or approved equivalent (IMSA 50-2).
- Loop lead—in and splices in pull box shall be twisted and soldered. Griggs Loop Detector Sealant, 3-M Loop Sealant, or approved equivalent shall be used.
- 10. Loops shall be installed prior to the installation of the final pavement lift (if part of a paving project).
- 11. Loops shall be inspected and tested prior to acceptance by the City.

12. See ADOT TS 7-1 for installation details.

DETAIL NO. **2137**

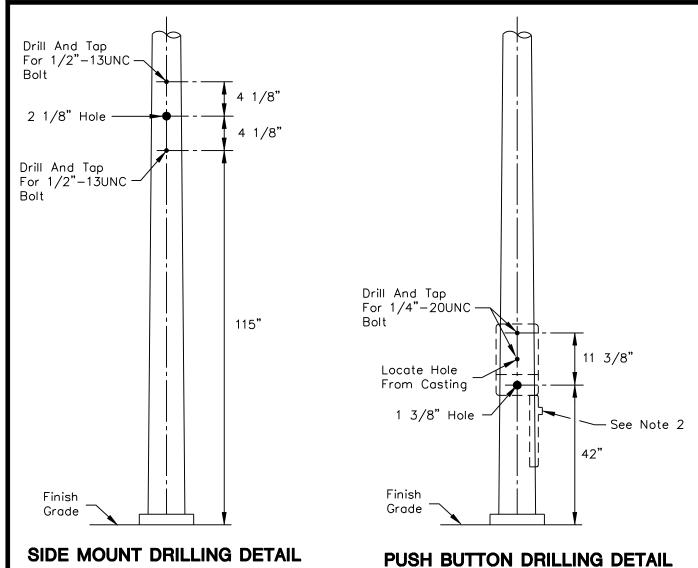
City of Scottsdale Standard Details

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LOOP DETECTORS

2137



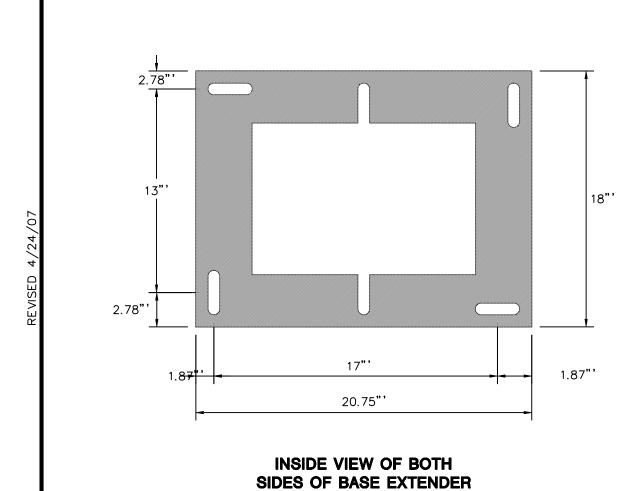
- 1. Drilling of pole to be oriented according to pole layout, or as directed by C.O.S. Engineer in the field.
- 2. When two pedestrian push button assemblies are mounted on a small diameter pole the lower assembly shall be positioned upside down so that the push button is at the top and the sign is below.
- 3. Top mounting holes to be field drilled in order to allow for manufacturing variations.
- 4. Push button shall be A.D.A large target style (ADOT Type I).

2138

City of Scottsdale Standard Details

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SIGNAL POLE DRILLING DETAIL



Notes:

- 1. Model 330 cabinet base extenders will include cutouts that will accommodate replacement with all other Scottsdale 330 cabinets and model 336S. These base extenders are available from the cabinet manufacturer. All Scottsdale cabinets are foundation mounted.
- 2. Foundation must include a 4"x30"x30" concrete pad in front of the cabinet door.
- The cabinet shall be mounted in such a way that when the technician has the door open and is facing the cabinet, he is also facing the intersection.
- 4. Cabinet base extender shall have a 12" x 12" removable access panel. Base extender shall be installed so that access panel is on door side of cabinet.

DETAIL NO.

2139

City of Scottsdale Standard Details APPROVED BY:

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TRAFFIC SIGNAL CONTROLLER CABINET BASE EXTENDER

2139

LOOP AND PEDESTRIAN PUSH BUTTON INPUTS

Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9	Slot 10	Slot 11	Slot 12	Slot 13	Slot 14
1 AB Ph 1	3 AB Ph 2	5 AB Ph 3	7 AB Ph 4	9 AB Ph 5	11 AB Ph 6	13 AB Ph 7	15 AB Ph 8	17 AB 1 PPB	19 AB 3 PPB	21 AB RRPre	23 AB AdvEn	25 AB EV A	27 AB Stop Time
2 AB Ph 1	4 AB Ph 2	6 AB Ph 3	8 AB Ph 4	10 AB Ph 5	12 AB Ph 6	14 AB Ph 7	16 AB Ph 8	18 AB 5 PPB	20 AB 7 PPB	22AB Flash	24 AB Adv	26 AB EV B	28 AB 6 Call
Det Loops	Det Loops	Det Loops	Det Loops	Det Loops	Det Loops	Det Loops	Det Loops	Ped Push Buttons	Ped Push Buttons			Pre- Empt	Slot 14 Slot 14

- All Scottsdale model 330 cabinet input racks have 14 slots.
- Slots 1-8 are for vehicle detector loops.
- Phase 4 loops are terminated on slot 4 (7A&B and/or 8A&B).
- Phase 4 pedestrian push button is terminated on 19A and ppb neutral on 19B.
- 19B shall have a jumper to the neutral bar.
- All two phase intersections are to be wired to phases 2 and 4.
- Field output wiring for 2 phase signals shall be wired to 2R, 2Y, 2G and 4R, 4Y, 4G.
- Ped field wiring shall be wired to 9R, 9G (Phase 2 Ped) and 10R, 10G (Phase 4 Ped).
- Call COS Traffic Signals (480)312-5635 prior to wiring cabinet for instructions for intersections with more than 2 phases.

DETAIL NO.	City of	900
0140	_	
2140	Standa	ard [

MAIN DIRECTIONS

LEFT TURN DIRECTIONS (Main Color + White)

RIGHT TURN	DIRECTIONS
(Main Colo	r + Black)

Color Of Wire For Power/Neutrals/Pushbuttons

Color
Blue
Green
Red
Yellow

Direction	Color
WBLT	Blue + White
EBLT	Green + White
NBLT	Red + White
SBLT	Yellow + White

Direction	Color		
WBRT	Blue + Black		
EBRT	Green + Black		
NBRT	Red + Black		
SBRT	Yellow + Black		

Wire	Color
AC+ Power	Black
AC- (Neutral)	White
24V Pushbutton	Orange, Stranded

WBLT = West Bound Left Turn and shall be the phase for vehicles facing west and turning to south

EBLT = East Bound Left Turn and shall be the phase for vehicles facing east and turning to north

NBLT = North Bound Left Turn and shall be the phase for vehicles facing north and turning to west

SBLT = South Bound Left Turn and shall be the phase for vehicles facing south and turning to east

WBRT = West Bound Right Turn and shall be the phase for vehicles facing west and turning to north

EBRT = East Bound Right Turn and shall be the phase for vehicles facing east and turning to south

NBRT = North Bound Right Turn and shall be the phase for vehicles facing north and turning to east

SBRT = South Bound Right Turn and shall be the phase for vehicles facing south and turning to west

DETAIL NO. **2141**

City of Scottsdale Standard Details

Scottsdale Standards & Specifications Committee

TAPE COLOR CODES FOR TRAFFIC SIGNAL WIRING

