City of Scottsdale



2002

SUPPLEMENTAL
STANDARD DETAILS
FOR
PUBLIC WORKS
CONSTRUCTION

34

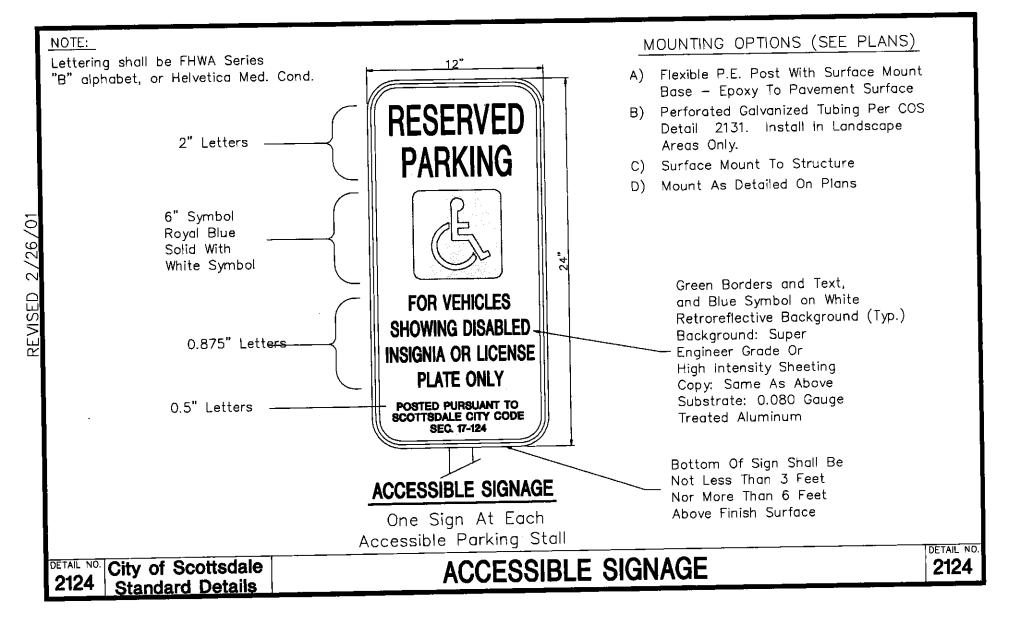
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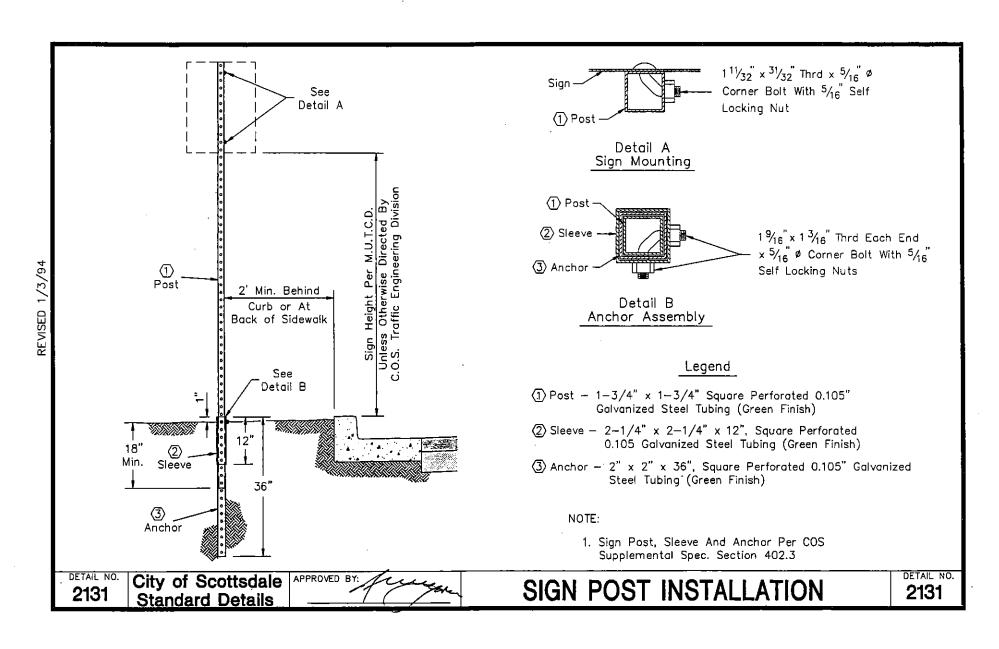
Γ) Series	2200 Stree	Series t Information Cont'd	230 <u>Wa</u>	00 Series ter Information
1		eral Information Accessible Signage	2220	Curb And Gutter — Types "A" & "B"	2305-1	Butterfly Valve Operator Manhole
ı	2131	Sign Post Installation	2221 *	Curb And Gutter Types "M" & "W"	2305-2	Butterfly Valve Operator Manhole
1	2132	Raised Pavement Marker Layout	2225 *	Median Nose & Reverse Curve Details	2315	Nonpotable Water Valve Box & Cover
1	2133	Median Nose Signing — Type A & B	2226 *	16' Median Nosé Details	2330	Water Service Line Connection
1	2134-1	Street Name Signs — Type A	2228	Cut—Off Wall	2332	Chlorine Injection Tap
ł	2134-2	Street Name Signs — Type B	2230	Sidewalk Cut-Off For Utility Poles	2333	Tap For Future Chlorine Injection
ı	2134-3*	Street Name Signs — 18" And 24" Metro	2232 *	Sidewalk Ramp Retrofit	2342-1	Pressure Reducing Valve
1	2135	Street Name Sign Installation	2238	Concrete Paver Crosswalk	2342-2	Pressure Reducing Valve
ı	2136	Advance Street Name Signs	2239	Median Concrete Pavers	2345-1	3", 4", 6" Water Meter
ı	2137	Loop Detectors	2240	6' Valley Gutter & Apron	2345-2	3", 4", 6" Water Meter
8	2138	Signal Pole Drilling Detail	2250 *	Drīveway Entrances	2346	Temporary Construction Meter
<u>`</u>	2139	Traffic Signal Controller Cabinet Extende	2255	Residential Driveways	2348	Air / Vacuum Release Valve
5/07/02	2140	Model 330 Input Rack Wiring Instructions	2256	Commercial/Industrial Driveways—Type CL	2349	Water Quality Sampling Station
	2141	Tape Color Codes for Traffic Signal Wirin	2257	Commercial/Industrial Driveways—Type CH	2351	Double Check Valve Backflow Prevention
REVISED	2146-1*	Refuse Enclosure	2258	Commercial/Industrial Driveways—Type Cl	2001	Assembly For Assemblies 3" Thru 10"
Æ	2146-2*	Refuse Enclosure With Grease Containment Area	2266-1	Mid-Block Bus Bay - Type "A"	2352	Double Check Valve Backflow Prevention Assembly For Assemblies 3/4" Thru
1		Double Refuse Enclosure	2266-2	Mid-Black Bus Bay - Type "B"	1	2 1/2"
	2147-2*	Double Refuse Enclosure With Grease Containment Area	2267	Far Side Bus Bay Base Slab And Foundations For Bus	2353	Reduced Pressure Principle Backflow Prevention Assembly For Assemblies
	2165-1	16'Sliding Gate & Hinged Door	2268	Stop Bench And Receptacles		3" Thru 10"
1		16' Sliding Gate	2269	Transit Shelter Pad	2354	Reduced Pressure Principle Backflow
		00 Series	2270	Frame & Cover Grade Adjustment		Prevention Assembly For Assemblies 3/4" Thru 2 1/2"
	Str	reet Information	2281	Multi-Use Path Crossing Sign	2355	Pressure Vacuum Breaker Assembly For
	2200 *	Pavement Replacement	2282	Multi-Use Path Striping And Signing	2333	Assemblies 1/2" Thru 2"
	2201 *	Trench Bedding & Backfill	2283	Multi-Use Path Details	2356	Guard Posts For Backflow Prevention Assemblies
	2202 *	Trench Plating Residential Unpaved Road	2284	Multi-Use Path Wet Crossing Sign	1.	
	2207 * 2210	Grading Behind The Curb	2285	Double Bicycle Rack	<u> </u>	NOTE: *-Indicates New Or Revised Details For 2002 Supplement. DETAIL NO.
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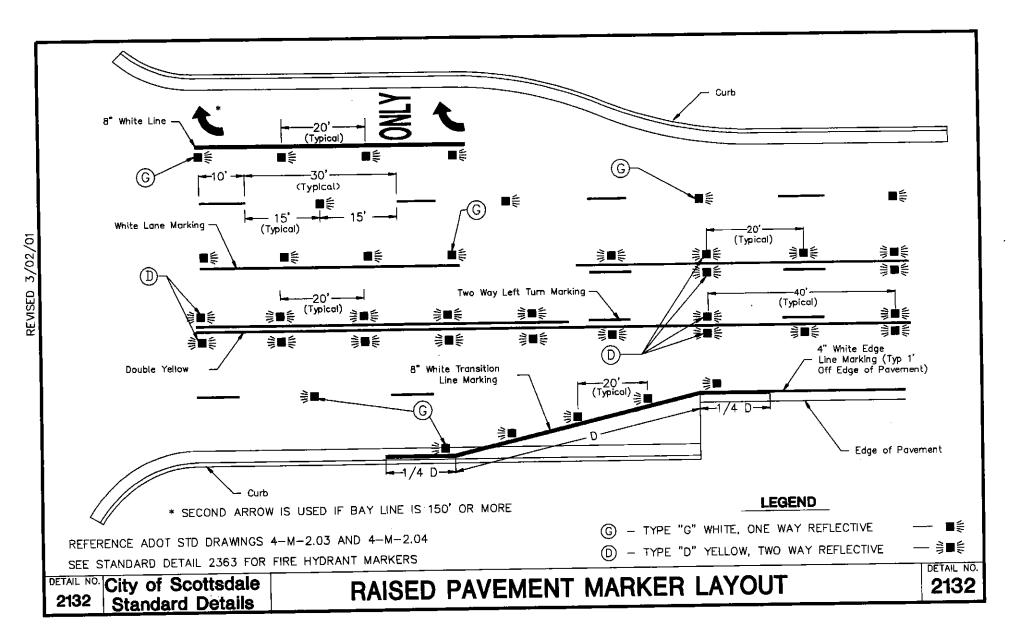
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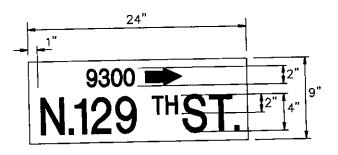
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	300 Series ater Information Cont'd	2500 Series Irrigation & Storm	2600 Series Landscape Information
2357	Fill Pipe Details For Portable Tanks w/ Air Gap Separation	<u>Drain Information</u>	2641-1* Single & Multi-Outlet Emitters
2358 2359 2360 2361 2362 2363 2364 2365 2370 * 2372	Backflow Prevention For Portable Tanks With No Air Gap Separation "N" Shaped Double Check Valve Backflow Prevention Assembly For Assemblies 3" Thru 10" "N" Shaped Reduced Pressure Principle Backflow Prevention Assembly For Assemblies 3" Thru 10" Fire Hydrant Bypass Assembly 1-1/2" - 2" Fire Line Connection Pavement Markers For Fire Hydrants Fire And Emergency Access And Delineation Fire Lane Sign Vertical Realignment Of Water Mains Minimum Utility Separation Requirements	2508 * Handrail Detail 2515-1 Wall Opening & Erosion Protection — Type 1 2515-2 Drainage Grate At Block Wall 2515-3 Wall Opening Erosion Protection — Type 2 2554 Concrete Invert Paving For Corrugated Metal Pipe And Pipe Arch 2562-1* Storm Sewer Outfall Access Barrier 2562-2* Barrier Specifications Schedule 2600 Series Landscape Information 2600-1 Minimum Tree Size Requirements 2600-2 Minimum Tree Size Requirements 2600-3 Minimum Tree Size Requirements	2641-2 Irrigation Emitter Layout 2642 * Irrigation Trenching 2643 Irrigation Trenching 2644 * Rotor Sprinkler Assembly 2645 * Pop—Up Sprinkler Assembly 2646 * Shrub Pop—Up Sprinkler Assembly 2647 * Drip Filter & Pressure Regulator 2648 Emitter Flush Cap Assembly 2649 Quick Coupler Assembly 2650 * 1-1/2"& Smaller Mainline Ball Valve 2651 * 2" & Larger Mainline Isolation Valve 2652 2"Or Smaller Master Valve/Flow Meter 2653 * 3"Or Larger Master Valve/Flow Meter 2654 Remote Control Valve Assembly 2680-1 Trail Access Gates 2680-2 Trail Access Gates 2681 Trail Water Bars 2682 Trail Signs
2398 2	Electronic Ballmarker Placement Antenna Mast Detail 400 Series anitary Sewer Information Force Main Discharge Manhole 2-Way F.M. Cleanout, 3" & Above F.M. Cleanout W/ Sewer Release A.V. Sewer Air Release Valve Water Tight Concrete Sewer Manhole Monitoring/Sampling Vault	2620—1 Landscape Details 2620—2 Landscape Details 2620—3 Landscape Details 2631 * Irrinet Pedestal Mounted Controller 2632 * Scorpio Pedestal Mounted Controller 2633 * Scorpio Wall Mounted Controller 2634 * Irrinet Wall Mounted Controller 2635—1 * Solar Controller 2635—2 * Solar Controller & Backflow Enclosure 2636 Irrigation Push Button Control	NOTE: *-Indicates New Or Revised Details For 2002 Supplement.
2100-2	City of Scottsdale Standard Details	INDEX	2100-2

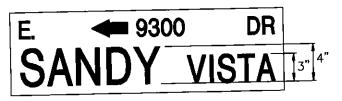










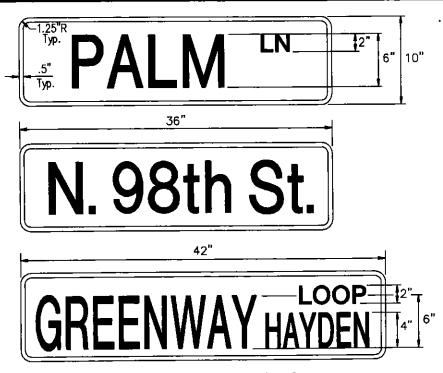


TYPE A SIGNS

Type IIA Super Engineering Grade Green/White (2 Sides)

Blank Sizes: 9"x 24", 9"x 30", 9"x 36", 9"x 42"

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

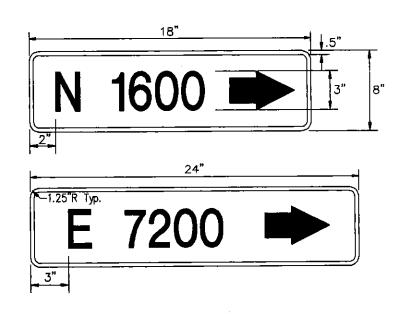


TYPE B SIGNS

Type III High Intensity Grade Green/White (2 Sides)

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

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



TYPE B BLOCK NUMBERS

Type III High Intensity Grade Green/White (1 Side)

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

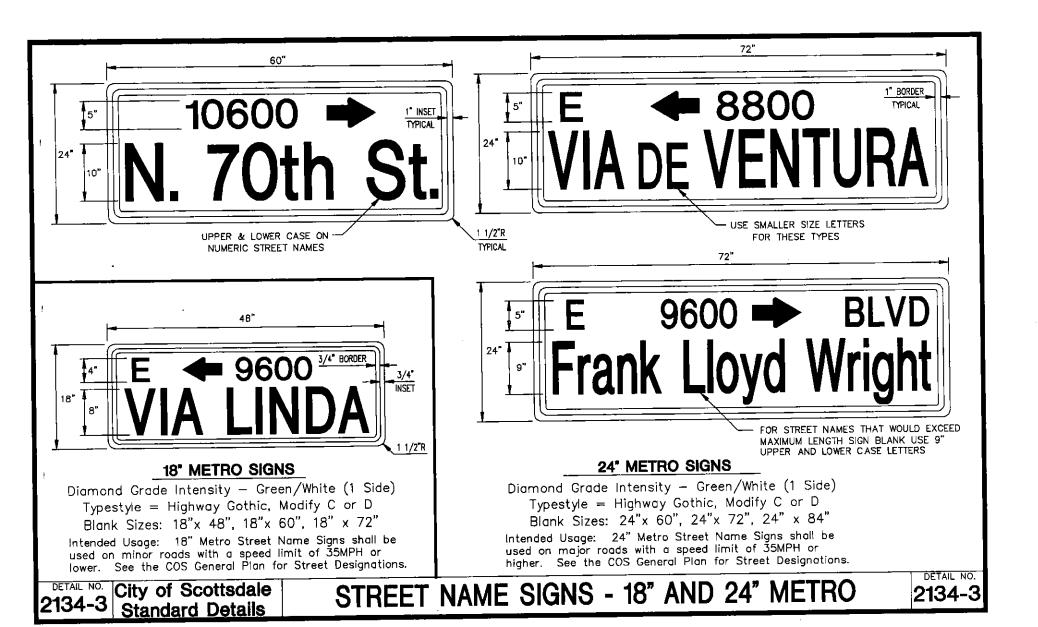
Type "B" Block Numbers to be mounted with Type "B" Street Name Signs.

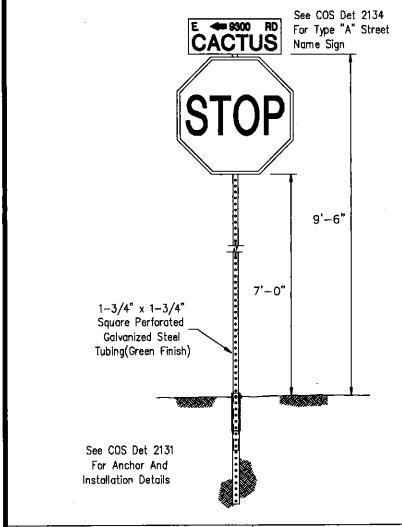
City of Scottsdale Standard Details

STREET NAME SIGNS - TYPE B

DETAIL NO.

2134-2





NOTES:

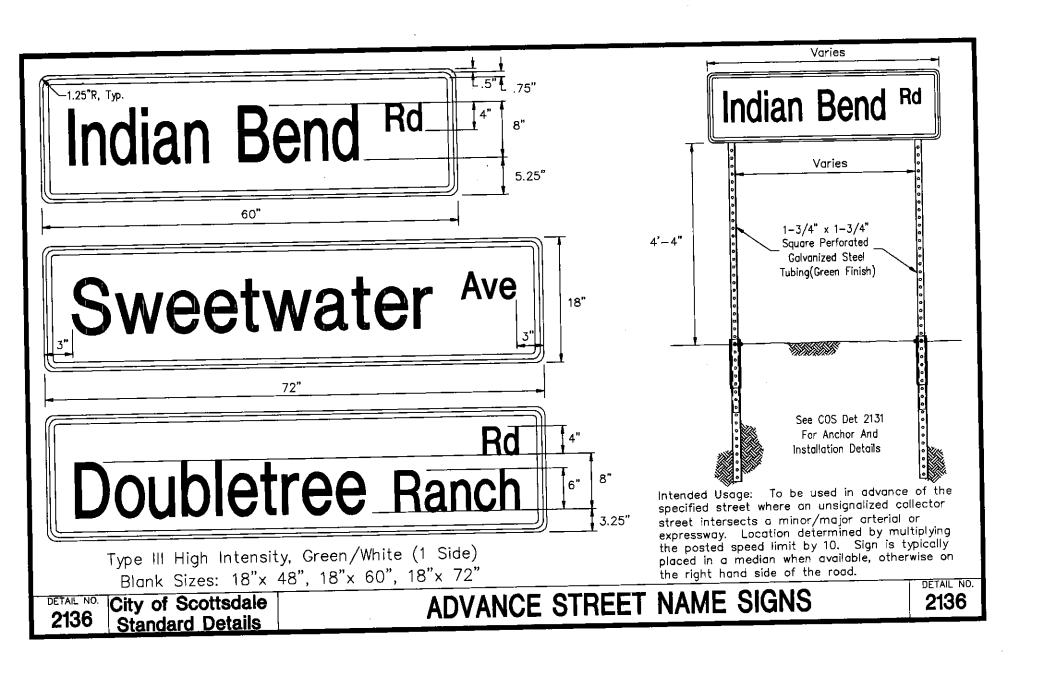
Street name sign and stop sign mounting height shall be measured from adjacent grade of sidewalk, top of curb or top of nearest pavement.

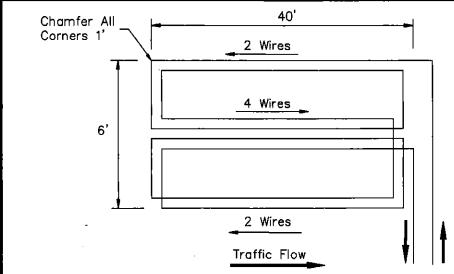
When no stop sign is required the street name sign is mounted at 9 feet 6 inches.

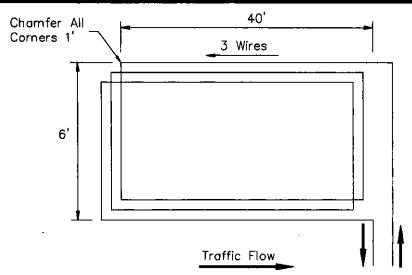
When two street name signs are mounted one on top of the other, the height is measured to the bottom sign.

2135 City of Scottsdale Standard Details

STREET NAME SIGN INSTALLATION







STANDARD LOOP DETECTOR

QUADRUPOLE LOOP DETECTOR For Left Turn Lanes Only

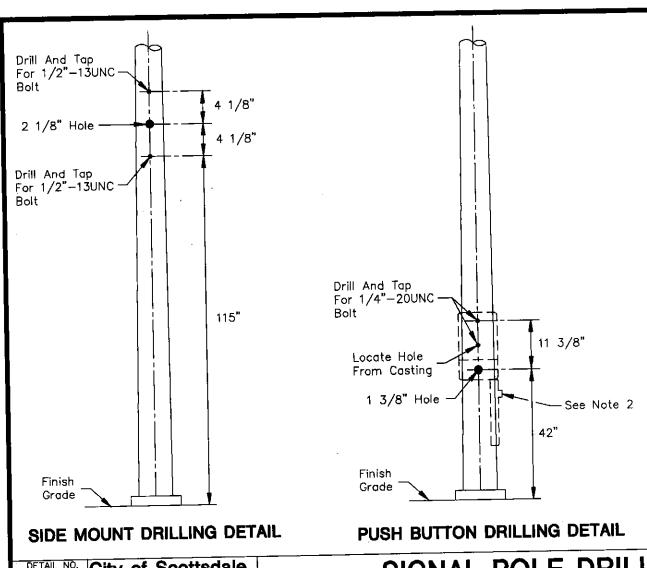
NOTES:

- 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.
- 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.
- 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.

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LOOP DETECTORS



NOTES:

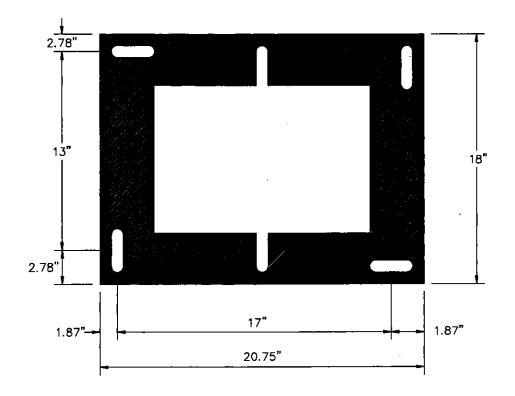
- 1. Drilling of pole to be oriented according to pole layout, or as directed by C.O.S. Engineer in the field.
- 2. When two pedestrian push button assemblies are mounted on a small diameter pole the lower assembly shall be positioned upside down so that the push button is at the top and the sign is below.
- 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).

DETAIL NO.

2138

City of Scottsdale Standard Details SIGNAL POLE DRILLING DETAIL

DETAIL NO.



INSIDE VIEW OF BOTH SIDES OF BASE EXTENDER

- 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" x 24" x 24" concrete pad in front of the cabinet door.
- 3. 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.

2139

City of Scottsdale Standard Details DETAIL NO.

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 2 PPB	19 AB 4PPB	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 6 PPB	20 AB 8PPB	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

- 1. All Scottsdale model 330 cabinet input racks have 14 slots.
- 2. Slots 1-8 are for vehicle detector loops.
- 3. Phase 4 loops are terminated on slot 4 (7A&B and/or 8A&B).
- 4. Phase 4 pedestrian push button is terminated on 19A and ppb neutral on 19B.
- 5. 19B shall have a jumper to the neutral bar.
- 6. All two phase intersections are to be wired to phases 2 and 4.
- 7. Field output wiring for 2 phase signals shall be wired to 2R, 2Y, 2G and 4R, 4Y, 4G.
- 8. Ped field wiring shall be wired to 9R, 9G (Phase 2 Ped) and 10R, 10G (Phase 4 Ped).
- 9. Call COS Traffic Signals (480)312—5635 prior to wiring cabinet for instructions for intersections with more than 2 phases.

2140 City of Scottsdale Standard Details

MAIN DIRECTIONS

Direction Color **WB** Blue EB Green NB Red SB Yellow

LEFT TURN DIRECTIONS (Main Color + White)

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

RIGHT TURN DIRECTIONS (Main Color + Black)

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

Color Of Wire For Power/Neutrals/Pushbuttons

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

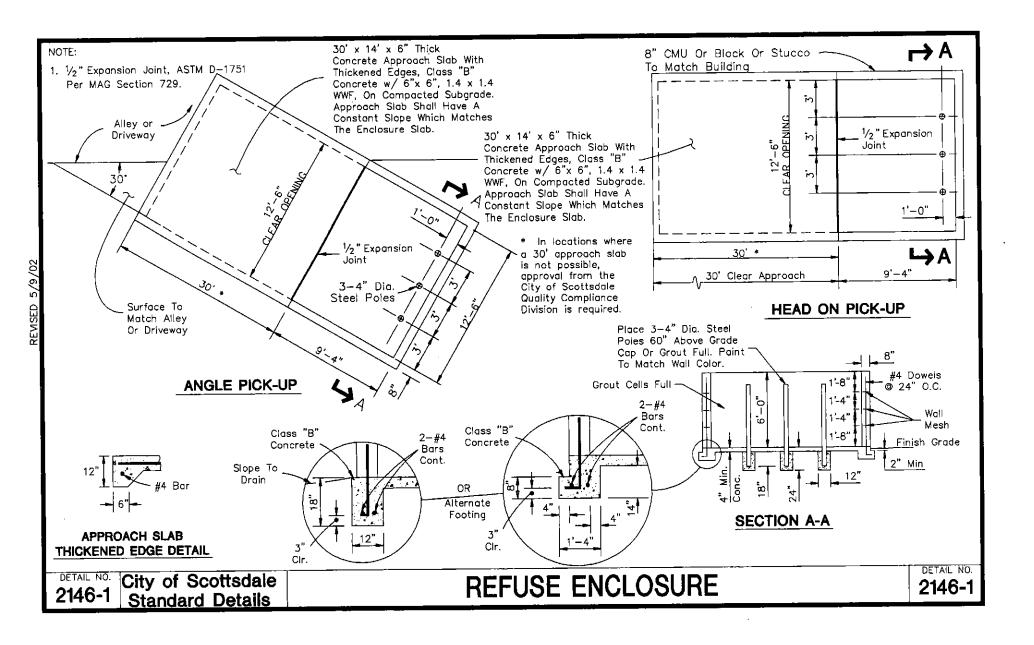
EBRT = East Bound Right Turn and shall be the phase for vehicles facing east and turning to south

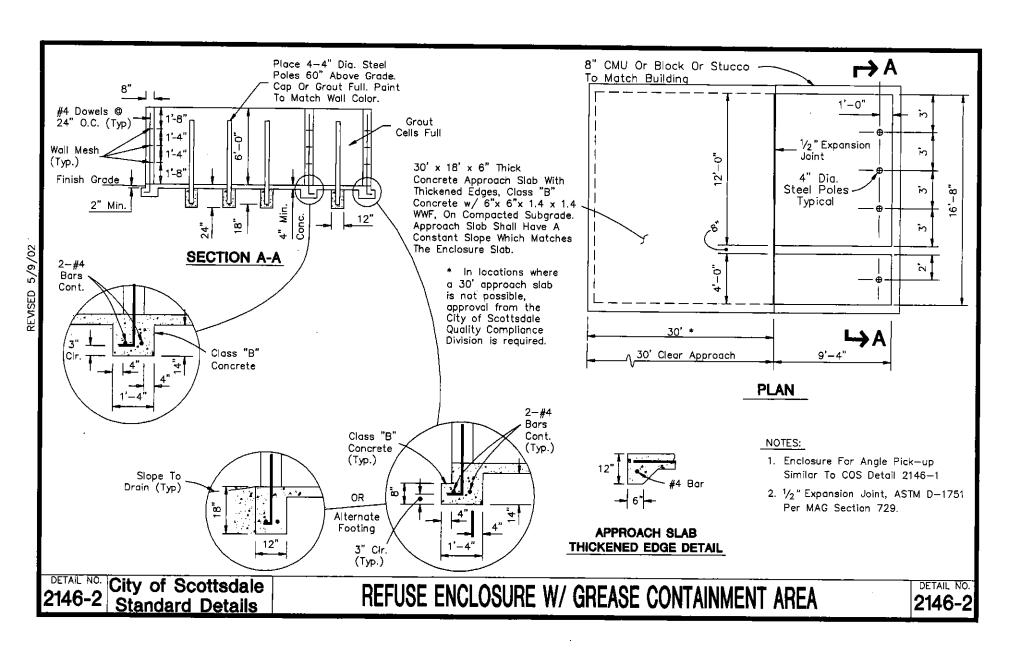
NBRT = North Bound Right Turn and shall be the phase for vehicles facing north and turning to east

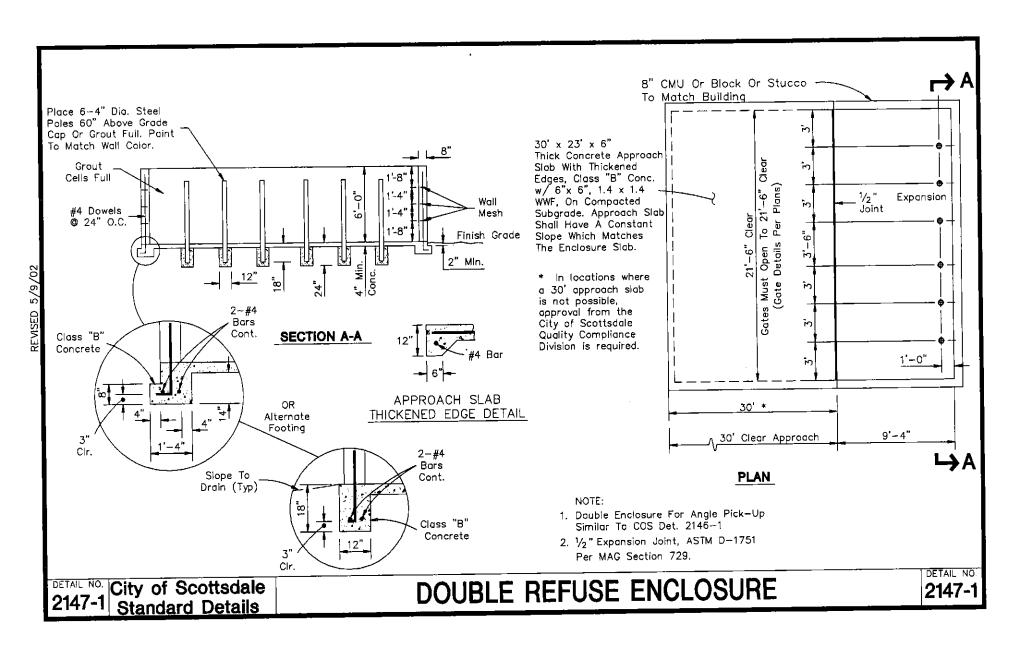
SBRT = South Bound Right Turn and shall be the phase for vehicles facing south and turning to west

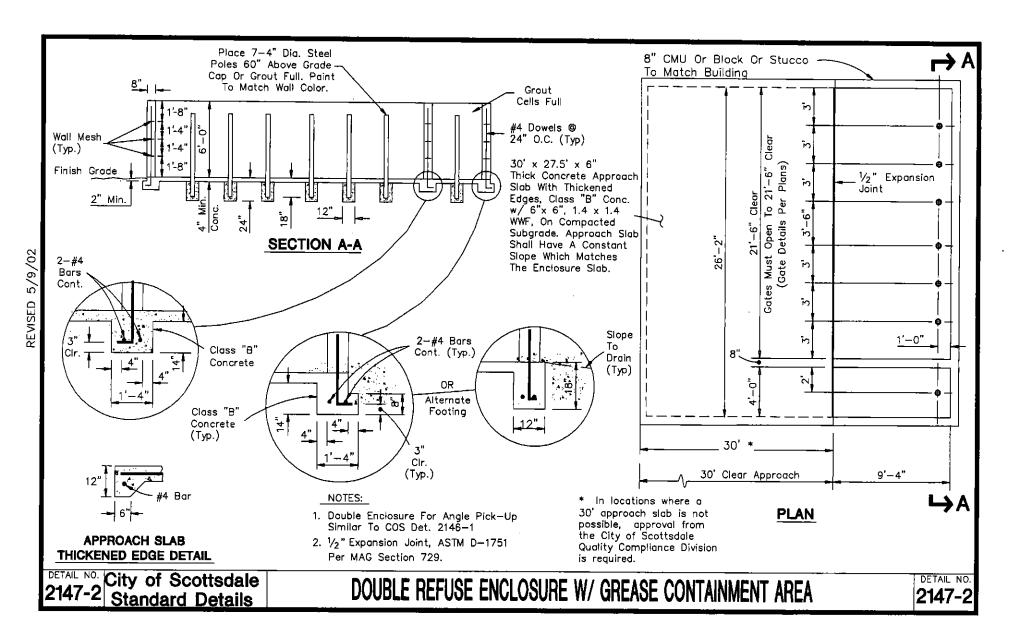
City of Scottsdale 2141 Standard Details

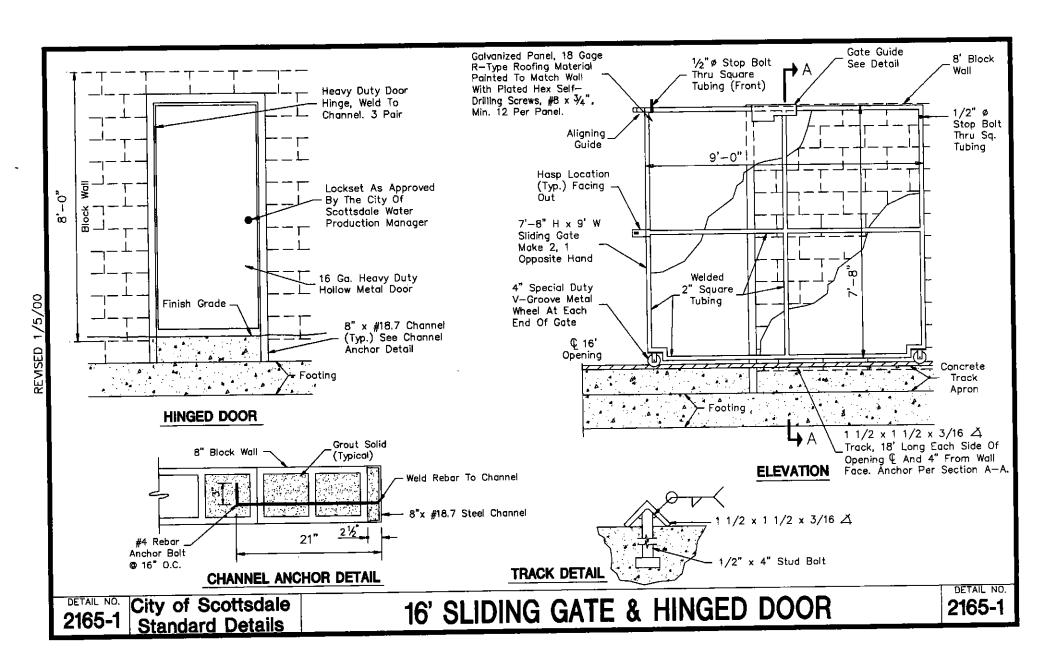
TAPE COLOR CODES FOR TRAFFIC SIGNAL WIRING

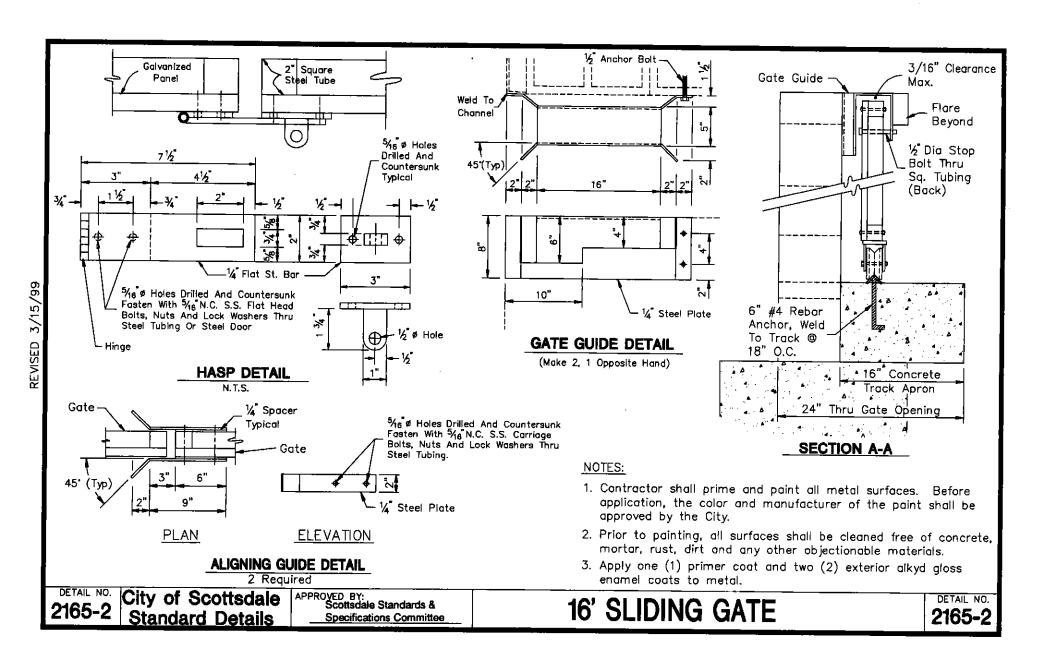


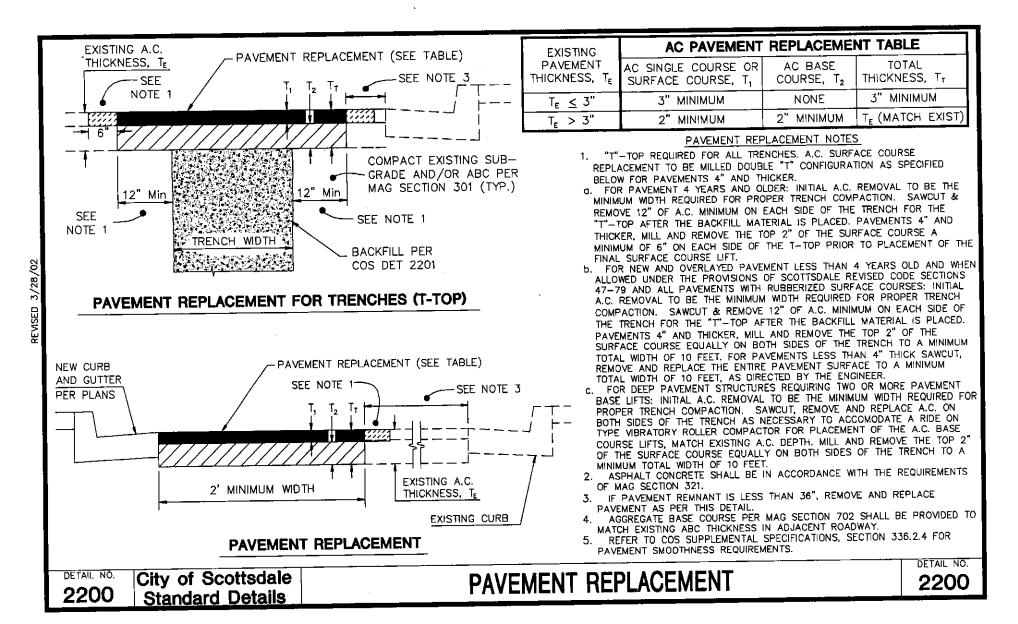




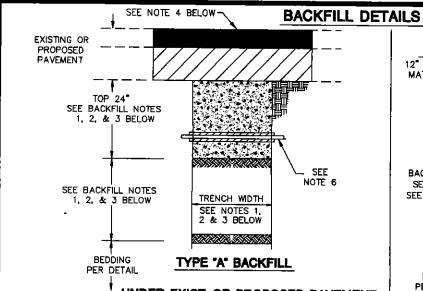








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UNDER EXIST. OR PROPOSED PAVEMENT OR EXIST. SURFACE TREATMENT

BACKFILL NOTES

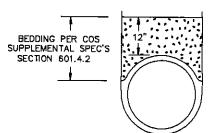
- TRENCHES 24" IN WIDTH OR LESS $-\,\,^1_2$ SACK C-S-LM, MAG 72B, FULL DEPTH OF BACKFILL BOTTOM OF ABC LAYER IN PAVEMENT STRUCTURE OR 6" BELOW PAVEMENT IN FULL DEPTH PAVEMENT STRUCTURES. CONSTRUCT PAVEMENT STRUCTURE TO MATCH EXISTING AND IN ACCORDANCE WITH COS DETAIL 2200.
- 2. TRENCHES 24" TO 6' IN WIDTH 1 SACK C-S-LM AS DESCRIBED IN NOTE 1 ABOVE WITHIN THE TOP 24" OF THE TRENCH; MAG 601.4.3 FOR BALANCE OF BACKFILL.
- TRENCHES OVER 6' IN WIDTH MAG 601.4.3 FULL DEPTH OF BACKFILL. TREAT ENTIRE DISTURBED SURFACE OF UNPAVED ALLEYS WITH LIGNIN-BASED DUST PALLATIVE, MAG 792, 1:1 DILUTION RATIO, 0.50 GAL/SY APPLICATION RATE.
- C-S-LM SHALL NOT BE USED FOR WATER OR SEWER PIPE BEDDING. SEE BEDDING DETAIL.
- EXPOSED COPPER OR POLYETHYLENE WATER PIPES IN SIZES I" TO 2" SHALL BE WRAPPED WITH I WIDE BLACK INSULATION BEFORE PLACING C-S-LM.
- RECYCLED ASPHALT SHALL NOT BE USED FOR BACKFILL.

SEE NOTES FINISHED GRADE 2 & 3 BELOW 12" COMPACTED MATERIAL PER PLAN BACKFILL PER MAG TRENCH WIDTH SECTION 601.4.3 SEE NOTE 1 BELOW BEDDING PER DETAIL TYPE 'B' BACKFILL **UNDER UNPAVED** ROADWAY, PARKING LOT AND VACANT LAND

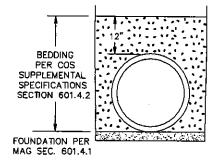
BACKFILL NOTES

- MAG 601.4.3 FULL DEPTH OF BACKFILL ENTIRE DISTURBED EXISTING SURFACE TO
- BE RESTORED WITH A LIKE MATERIAL TREAT ENTIRE DISTURBED SURFACE WITH
- LIGNIN-BASED DUST PALLATIVE, MAG 792, 1:1 DILUTION RATIO, 0.50 GAL/SY APPLICATION RATE.
- RECYCLED ASPHALT SHALL NOT BE USED FOR BACKFILL

BEDDING DETAILS



BEDDING DETAIL CAST-IN-PLACE PIPE



BEDDING DETAIL ALL OTHER PIPE

NOTES:

- 1. FOR HDPE PIPE SEE COS SUPPLEMENTAL SPECIFICATIONS SECTION 603,4,2
- 2. RECYCLED ASPHALT SHALL NOT BE USED FOR BEDDING OR FOUNDATION MATERIAL.

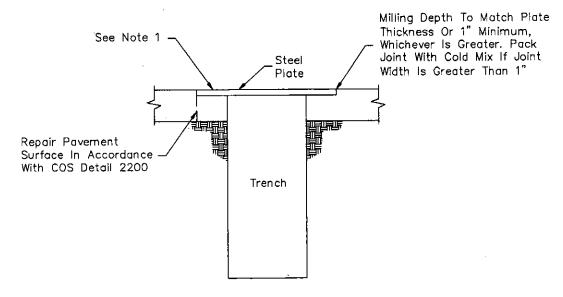
DETAIL NO. 2201

City of Scottsdale Standard Details

TRENCH BEDDING & BACKFILL

NOTES:

- 1. The contractor shall provide adequate overlap of plate on asphalt to assure no slippage of plate and no collapsing of trench.
- 2. "Posted Speed" does not include temporary construction signing.



See Note 1 Cold Mix Plate Trench

TYPE 'A' PLATING

CITY POSTED SPEEDS OF 35 MPH AND GREATER OR BUS & TRUCK ROUTE

TYPE "B" PLATING

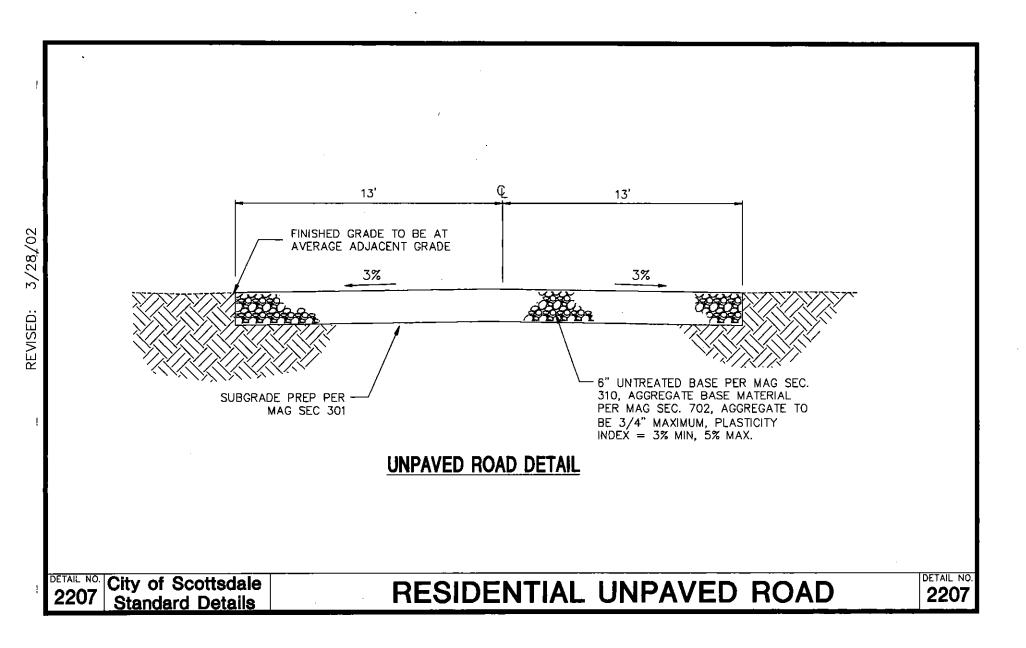
CITY POSTED SPEEDS UNDER 35 MPH

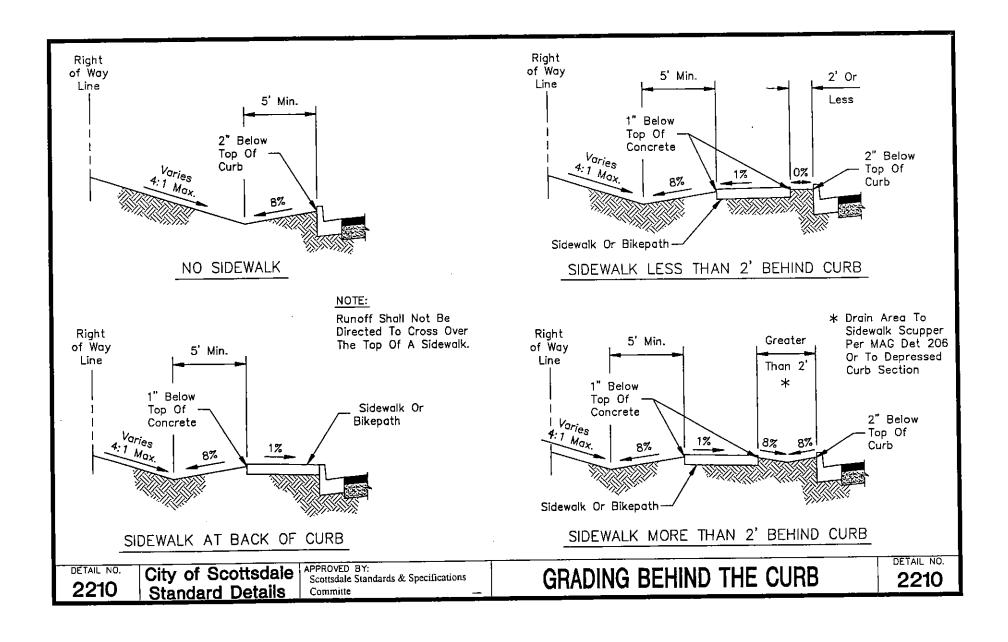
DETAIL NO. 2202

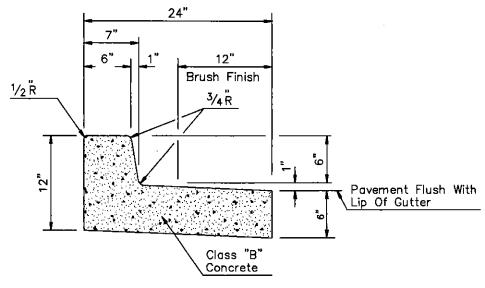
City of Scottsdale Standard Details

APPROVED BY:

TRENCH PLATING





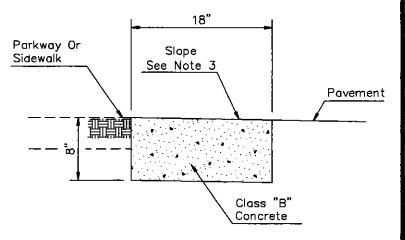


VERTICAL CURB & GUTTER WITH DEPRESSED LIP

TYPE 'A'

NOTES

- All exposed surfaces to be trowel finished except as shown. See M.A.G. Section 340.
- 2. Contraction joint spacing 10' maximum.
- 3. Construct curb and install 1/2" mastic expansion joints, A.S.T.M. D-1751, per M.A.G. Sec. 340 & 729 and COS Sec. 340.
- 4. Colored concrete shall be colored integrally.



RIBBON CURB

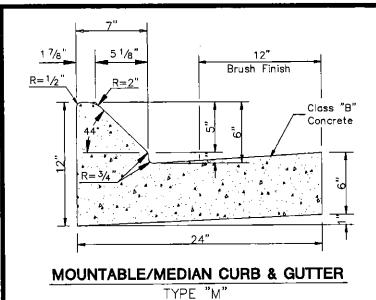
NOTES

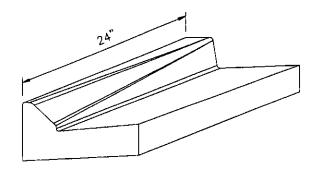
- Construct curb and install ¹/₂ mastic expansion joints, A.S.T.M. D-1751, per M.A.G. Sec. 340 & 729 and COS Sec 340.
- 2. Broom finish all surfaces.
- Ribbon curb may slope towards pavement or parkway. Match cross slope of road unless indicated otherwise on plans.
- 4. Contraction joint spacing 10' maximum.
- 5. Colored concrete shall be colored integrally.

2220 City of Scottsdale Standard Details

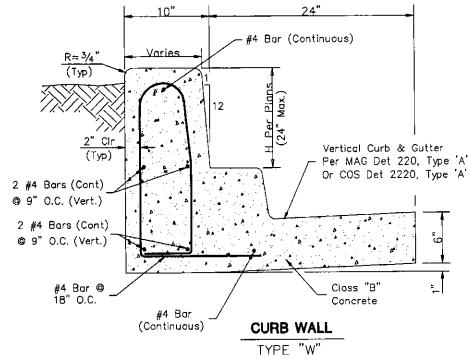
CURB AND GUTTER - TYPES A & B

DETAIL NO.





MOUNTABLE CURB TO VERTICAL CURB TRANSITION



NOTES

- 1. All exposed surfaces to be trowel finished except as shown. See M.A.G. Section 340.
- 2. Contraction joint spacing 10' maximum.
- 3. Construct curb and install $\frac{1}{2}$ mastic expansion joints, A.S.T.M. D-1751, per M.A.G. Sec. 340 & 729 and C.O.S. Sec. 340.
- 4. Gutter lip may be depressed where indicated on plans and constructed as shown on COS Detail 2220, Type "A".
- 5. Colored concrete, if called for on the plans, shall be colored integrally.
- Steel reinforcement Per M.A.G. Section 727.

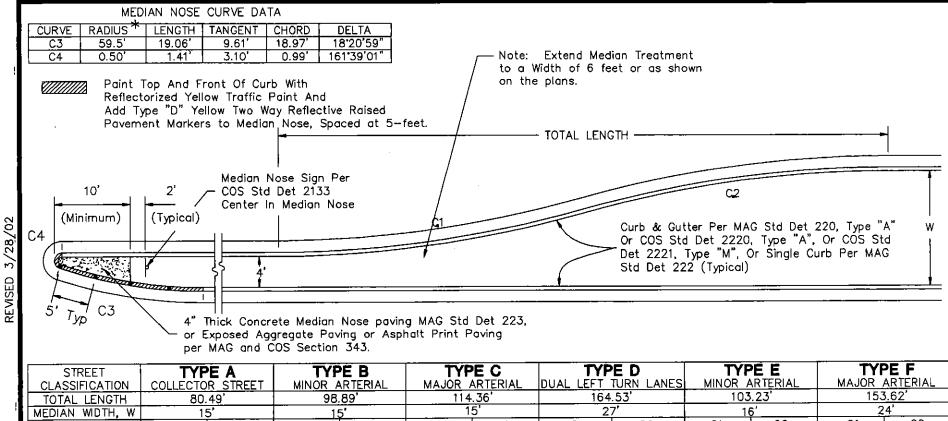
City of Scottsdale

APPROVED BY:

CURB & GUTTER - TYPES M & W

DETAIL NO. 2221

Standard Details



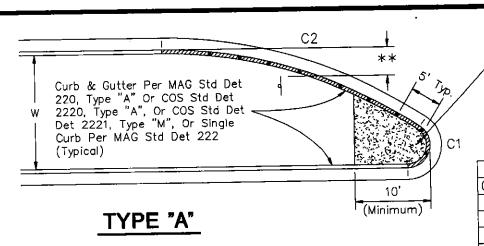
CLASSIFICATION		OR STREET		ARTERIAL		ARTERIAL		TURN LANES		RTERIAL		ARTERIAL
TOTAL LENGTH	,	.49'		.89'	114	.36'	164	.53'	103	.23'	153	3.62 '
MEDIAN WIDTH,	W 1	5'	1.	5 '	1	5'	2	7 '	16	5′	2	4'
CURVE NUMBER	₹ C1	C2	C1	C2	C1	C2	C1	C2	C1	C2	C1	C2
RADIUS *	150.00	150.00	150.00	300.00'	300.00'	300.00'	300.00	300.00'	150.00'	300.00'	300.00	300.00'
DELTA	15'33'49"	15'33'49"	12 41 40"	12'41'40"	10.5917"	10*59'17"	15*54'56"	15'54'56" _	13'15'41"	13'15'41"	14*50'06"	14'50'06"
LENGTH	40.75	40.75'	33.23'	66.47	57.53'	57.53'	83.33'	83.33'	34.72'	69.44'	77.68	77.68
TANGENT	20.50'	20.50'	16.69'	33.37'	28.86'	28.86	41.94	41.94	17.44	34.87	39.06'	39.06
CHORD	40.62	40.62	33.17'	66.33	57.45	57.45	83.07	83.07	<u> 34.64'</u>	69.28	83.07	83.07

* ALL RADII AND DIMENSIONS TO BACK OF CURB

NOTE: Curve Data Shown is For Streets On Linear Alianments Only.

2225 City of Scottsdale Standard Details

MEDIAN NOSE & REVERSE CURVE DETAILS



4" Thick Concrete
Median Nose Paving
MAG Std Det 223, or
Exposed Aggregate Paving
or Asphalt Print Paving
per MAG and COS Section
343 (Typical)

* ALL RADII AND DIMENSIONS TO BACK OF CURB

** OFFSET TO BE NO MORE THAN
3' FROM FACE OF CURB AT
TANGENT TO EDGE OF SIGN

CURVE RADIUS LENGTH TANGENT CHORD DELTA C1 2.50' 6.35' 8.06' 4.78' 145'32'39 C2 59.50' 35.78' 18.45' 35.24' 34'27'21 C3 10.00' 1.74'39'42 1.74'39'42 1.74'39'42	CURVE DATA - W=15'									
C1 2.50' 6.35' 8.06' 4.78' 145'32'39 C2 59.50' 35.78' 18.45' 35.24' 34'27'21	CURVE			TANGENT	CHORD					
C2 59.50' 35.78' 18.45' 35.24' 34'27'21			6.35'	8.06	4.78					
5 E E T				18.45	35.24	34*27'21"				
	C3	2.50'	5.74'	5.57	4.56	131'38'42"				
C4 59.50' 25.11' 12.74' 24.92' 24'10'39					24.92	24'10'39"				

CURVE DATA - W=16'								
	LENGTH	TANGENT	CHORD	DELTA				
	6.27	7.65	4.75	143°48'20"				
	37.59	19.44'	36.97	36°11'40"				
	5.64	5.27	4.52	129'14'46"				
		13.40'	26.14	25'22'37"				
	RADIUS ** 2.50' 59.50' 2.50' 59.50'	RADIUS LENGTH 2.50' 6.27' 59.50' 37.59' 2.50' 5.64'	RADIUS LENGTH TANGENT 2.50' 6.27' 7.65' 59.50' 37.59' 19.44' 2.50' 5.64' 5.27'	RADIUS LENGTH TANGENT CHORD 2.50' 6.27' 7.65' 4.75' 59.50' 37.59' 19.44' 36.97' 2.50' 5.64' 5.27' 4.52'				

CURVE DATA - W=24'								
RADIUS *	LENGTH	TANGENT	CHORD	DELTA				
	5.75	5.59'	4.56	131 48 37"				
	50.04	26.61	48.58	48°11'23"				
		3.77'	4.17'_	112 <u>'53'08"</u>				
	34.85	17.94	34.35	33'33'26"				
	RADIUS ** 2.50' 59.50' 2.50' 59.50'	2.50' 5.75' 59.50' 50.04' 2.50' 4.93'	RADIUS LENGTH TANGENT 2.50' 5.75' 5.59' 59.50' 50.04' 26.61' 2.50' 4.93' 3.77'	RADIUS LENGTH TANGENT CHORD 2.50' 5.75' 5.59' 4.56' 59.50' 50.04' 26.61' 48.58' 2.50' 4.93' 3.77' 4.17'				

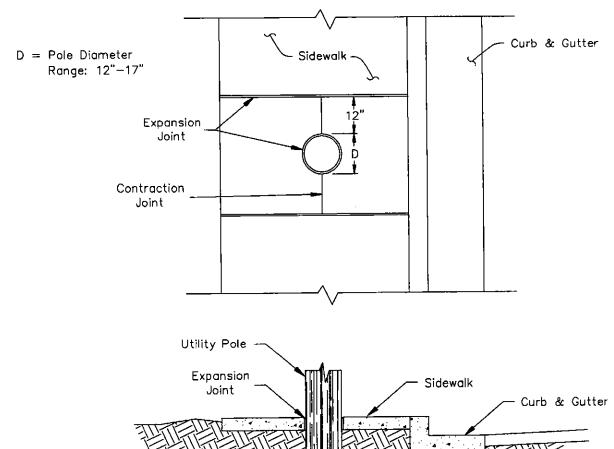
DETAIL NO. | City of Scottsdale | Standard Details

MEDIAN NOSE DETAILS

DETAIL NO. **2226**

Paint Top And Front Of Curb With Reflectorized Yellow Traffic Paint And Add Type "D" Yellow Reflective Raised Pavement Markers to Median Nose Nose, Spaced at 5—feet.

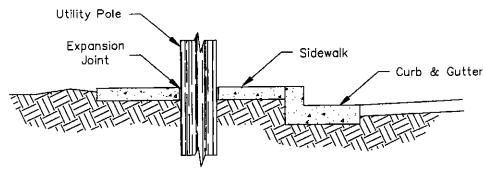
	C	
===	VISITION TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE	**
w	Median Nose Sign Per COS Std Det 2133 (Typical)	C3
	C	\
	TYPE "B"	10' (Minimum)



NOTES

Install expansion joint around wood pole.

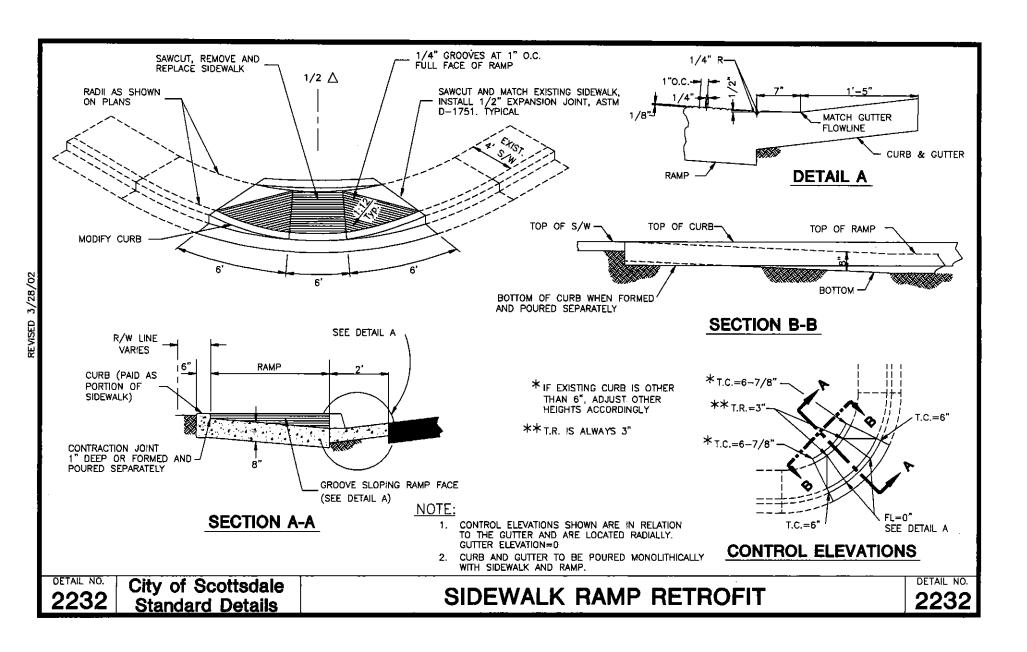
Install expansion joint at sidewalk 1/4" lower than sidewalk

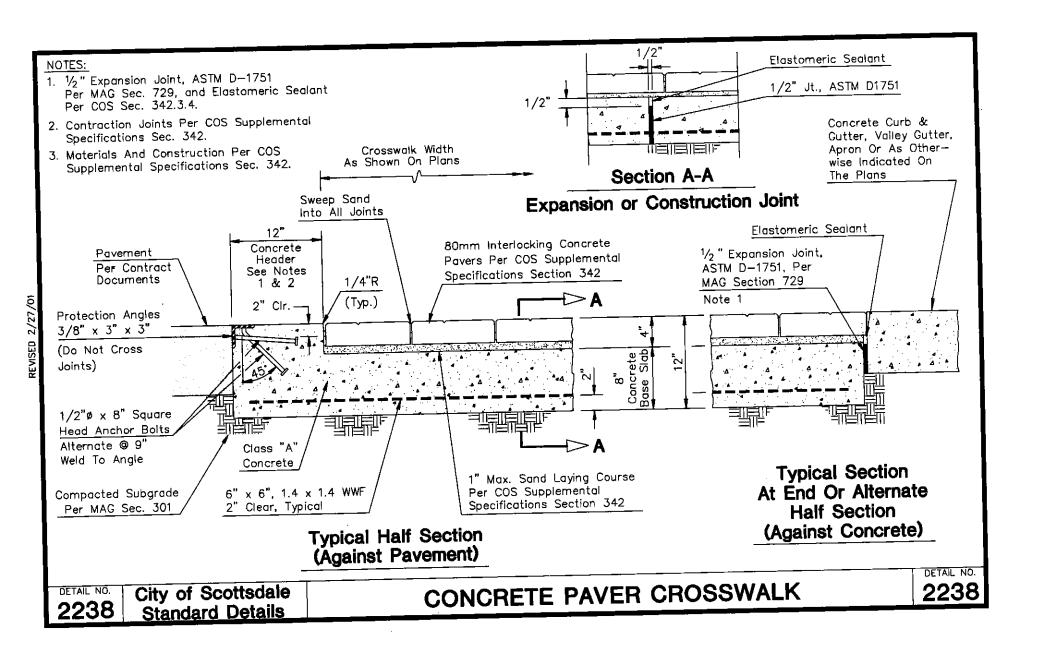


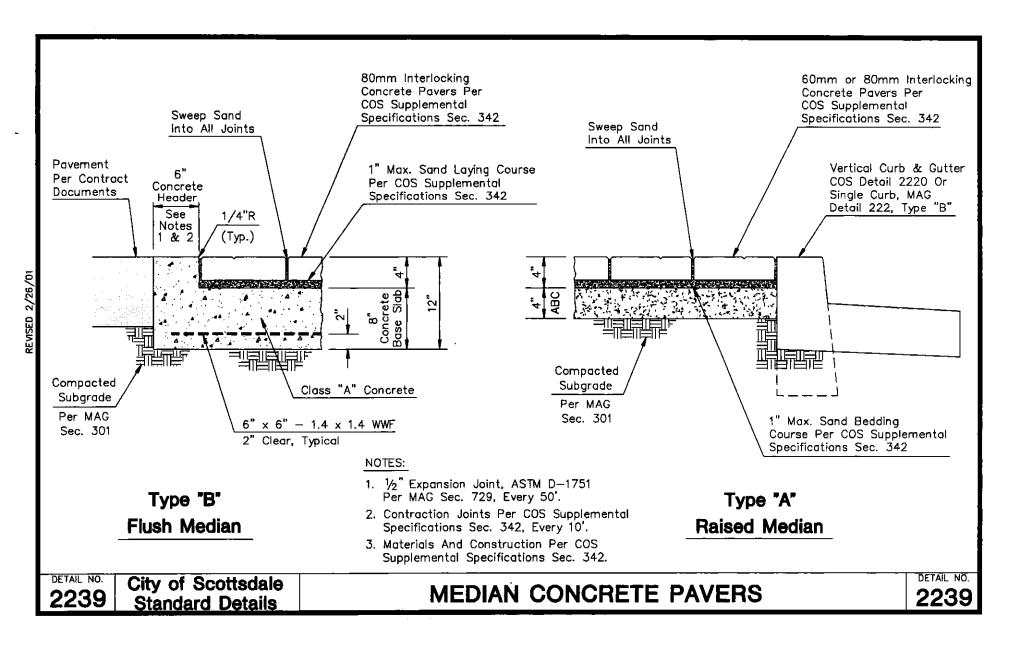
DETAIL NO.

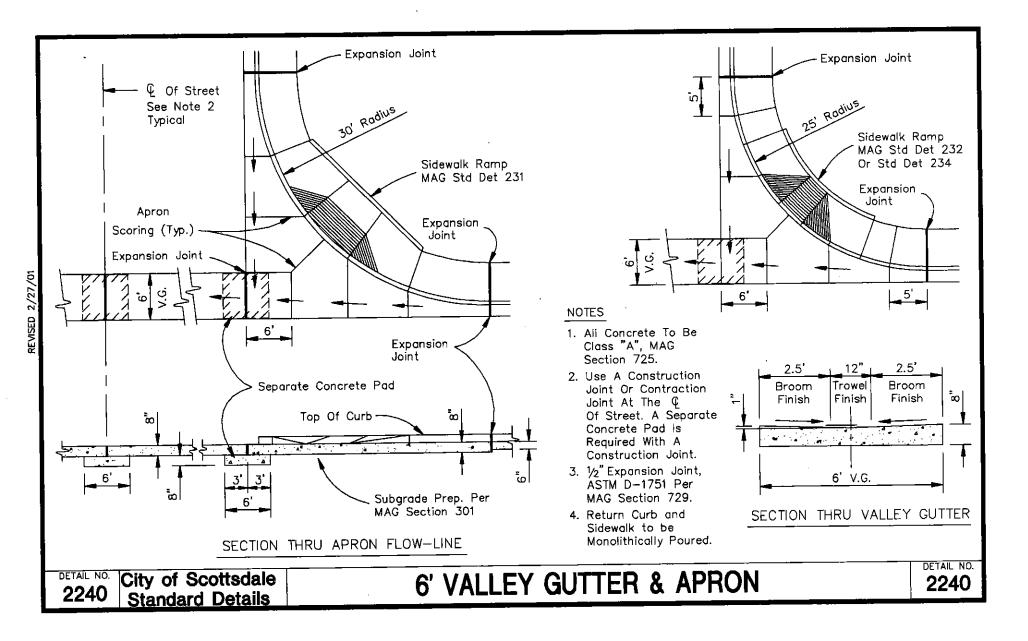
City of Scottsdale Standard Details

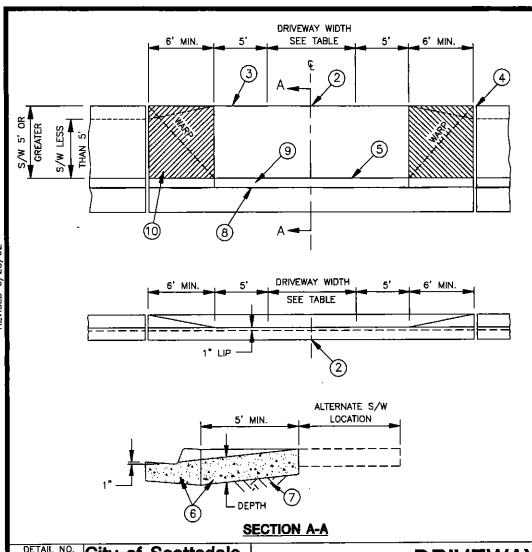
APPROVED BY: Scottsdale Standards & Specifications Committee SIDEWALK CUTOUT FOR UTILITY POLES











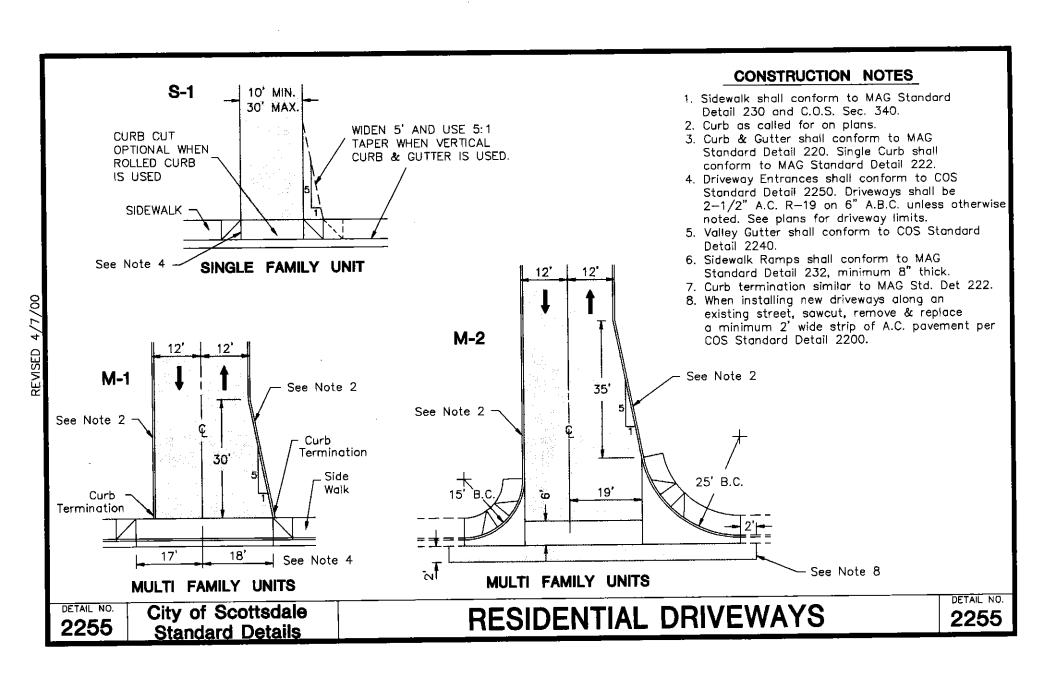
NOTES

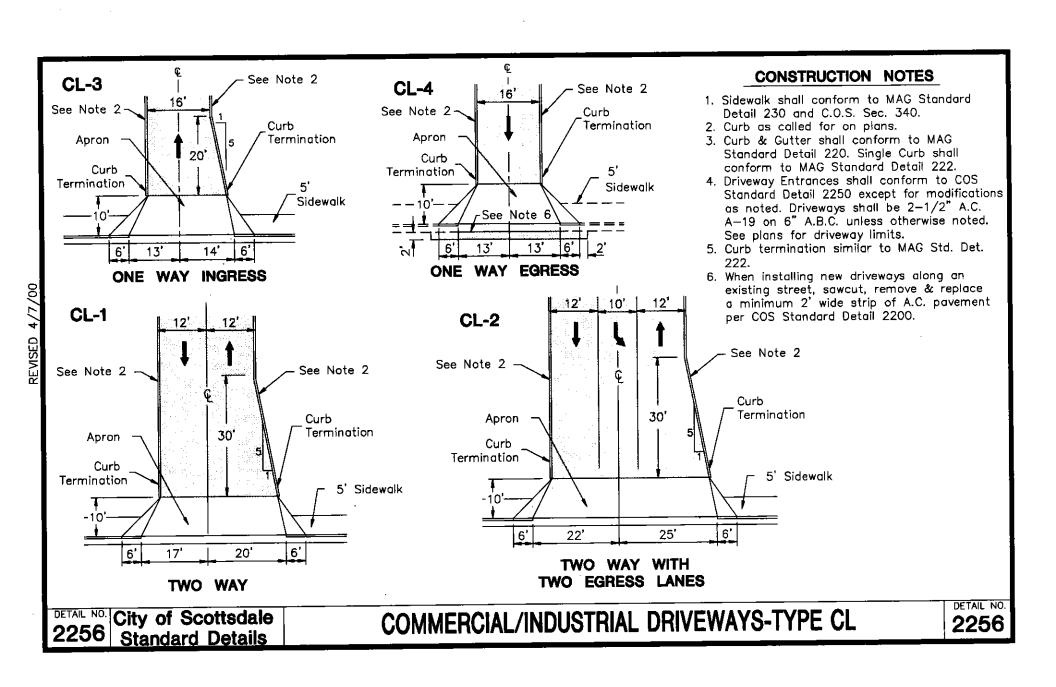
- 1. DEPRESSED CURB SHALL BE PAID FOR AT THE UNIT PRICE BID FOR THE TYPE OF CURB USED AT THAT LOCATION.
- 2 CONTRACTION JOINT ON DRIVEWAY CENTERLINE.
- 3 BACK OF DRIVEWAY ENTRANCE OR FUTURE SIDEWALK.
- 4 MASTIC EXPANSION JOINT THROUGH CURB AND GUTTER. EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER A.S.T.M. D-1751.
- 5 BACK OF CURB CONSTRUCTION JOINT OR SCORE MARK.
- 6 CLASS 'B' CONCRETE, MAG SECTION 725.
- 7 SUBGRADE PREPARATION, MAG SECTION 301.
- 8 FLOW LINE OF GUTTER.
- 9 DEPRESSED CURB.
- 10 1/4" GROOVES AT 1" ON CENTER FULL WIDTH OF 6' WARP SECTION, EACH SIDE OF DRIVEWAY. SEE DETAIL A, COS DETAIL 2232.

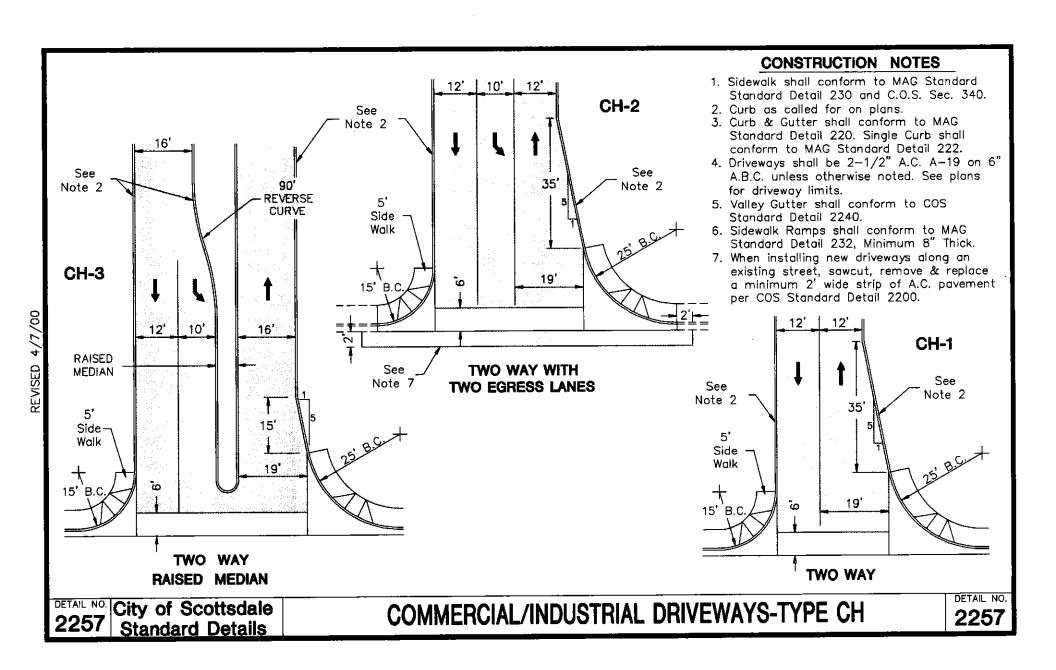
COMMERCIAL & INDUSTRIAL				
DRIVEWAY WIDTH	MIN.	MAX.	CLASS	DEPTH
COMMERCIAL ZONING INDUSTRIAL ZONING + 24' MIN. FOR TWO WAY TRAFFIC	+ 16' + 16'	40' 40'	ВВ	8" 8"
RESIDENTIAL				
DRIVEWAY WIDTH	MIN.	MAX.	CLASS	DEPTH
MAJOR STREET COLLECTOR STREET LOCAL STREET * 16' DESIRABLE	16' *12' 12'	30' 30'	8 8	8" 8" 8"
				DETAIL NO.

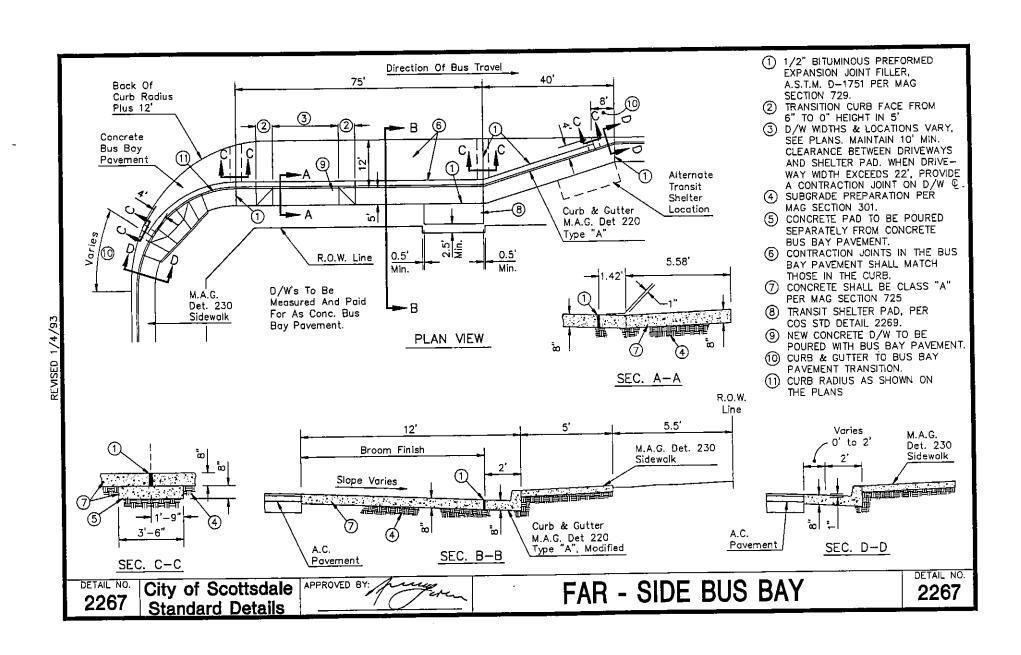
2250 City of Scottsdale Standard Details

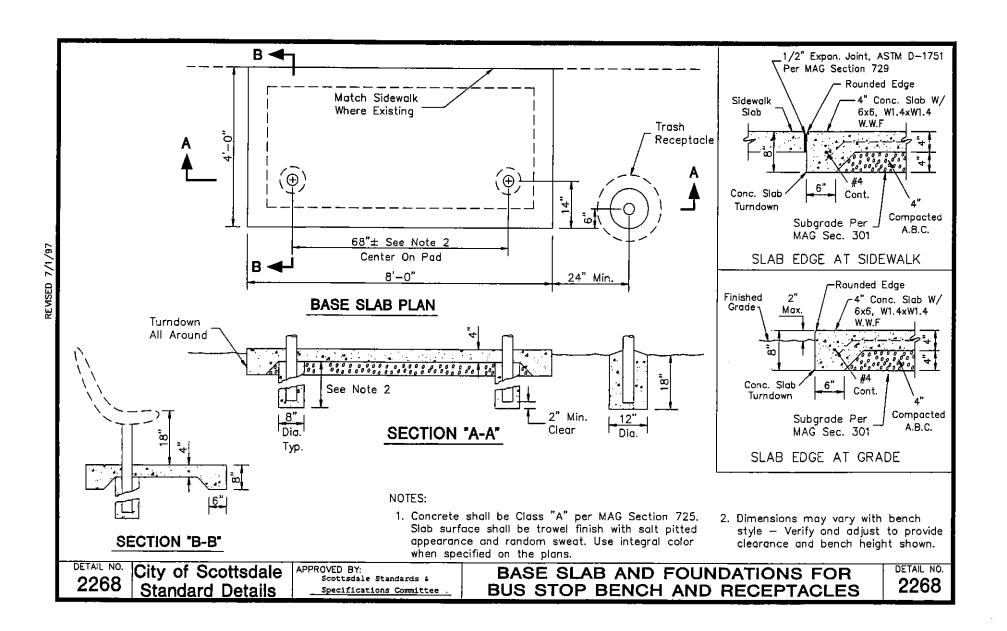
DRIVEWAY ENTRANCES

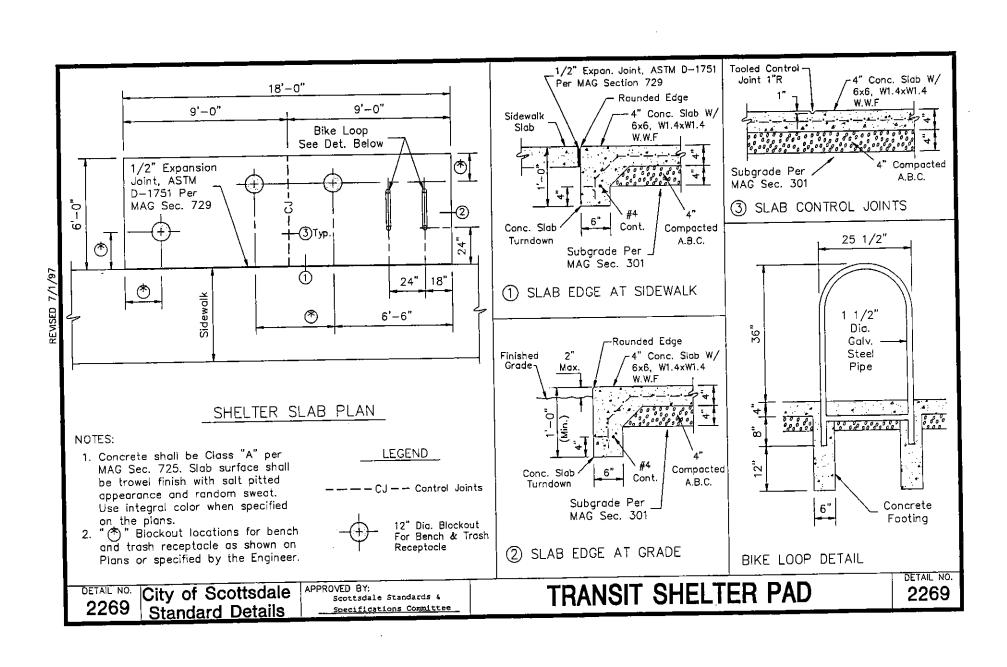


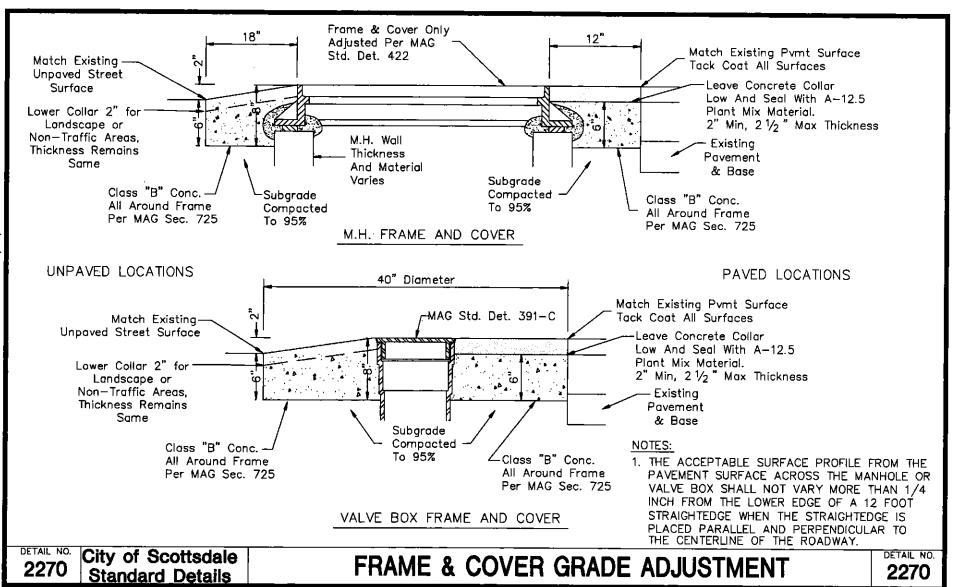


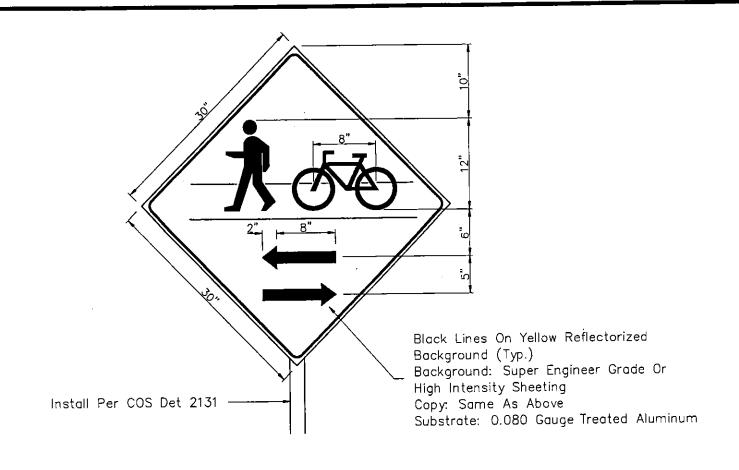








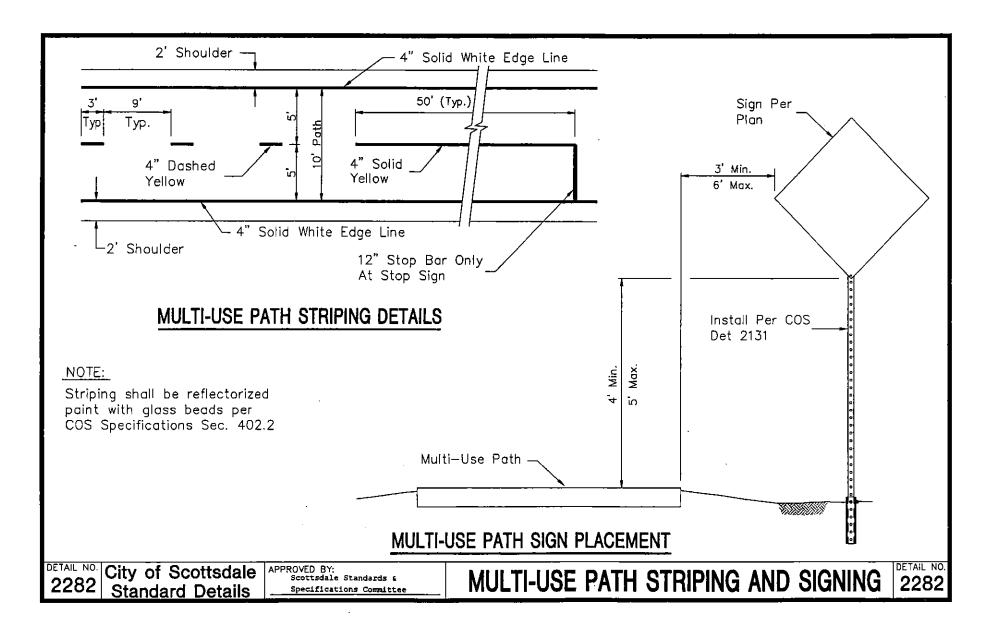


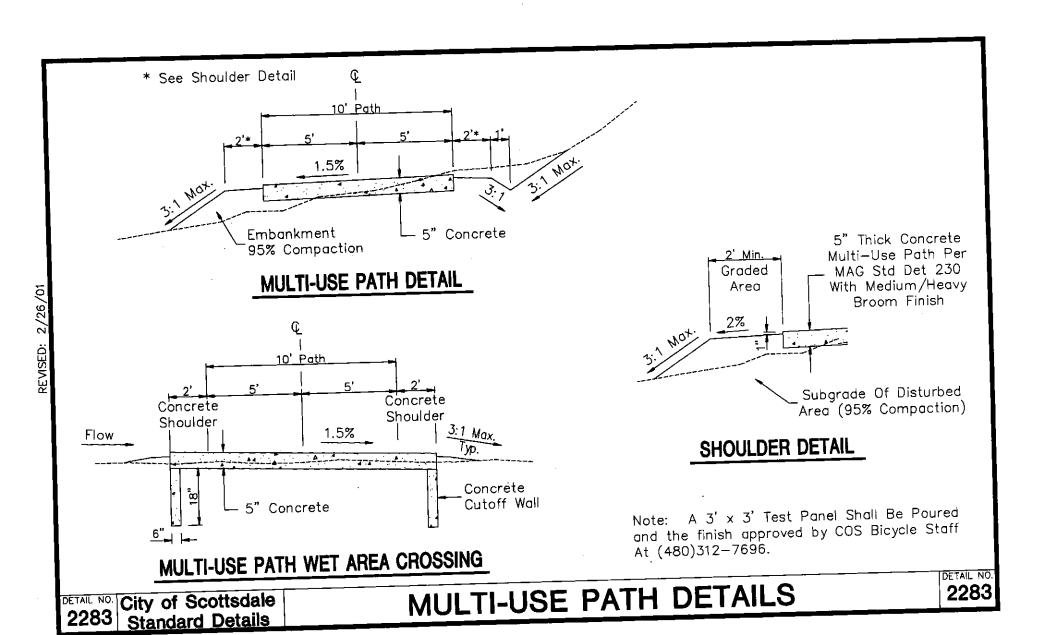


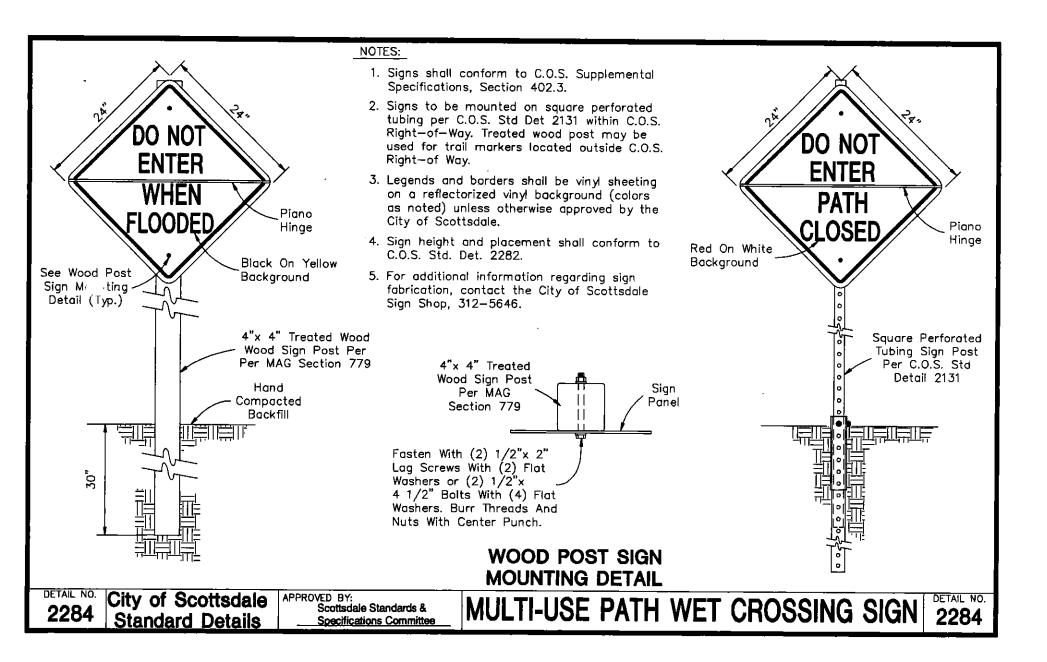
MULTI-USE PATH CROSSING SIGN

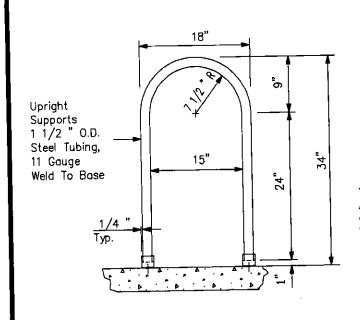
2281 City of Scottsdale Standard Details

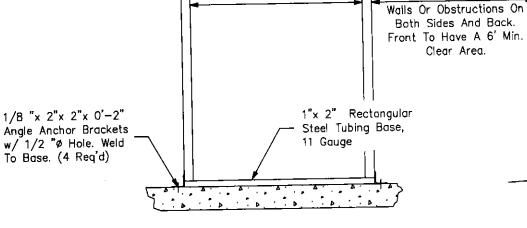
APPROVED BY:
Scottsdale Standards 6 Specifications Committee MULTI-USE PATH CROSSING SIGN











31"

28"

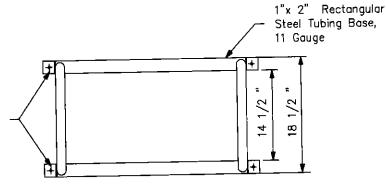
2' Min. Clearance From

Clear Area.

NOTES:

- 1. Double rack holds 4 bicycles.
- 2. Finish to be weather resistant, baked-on powder polymer coating.
- 3. Anchor rack to concrete w/ 3/8°¢ x 2 1/2 " wedge anchors, (4 Req'd) or set tubing 12" below grade in 24" deep x 6" wide concrete footing.
- 4. Concrete base may be covered with turf or decomposed granite.
- 5. Placement of bicycle rack shall be convenient to main entrance and in a highly visible area.

1/8 "x 2"x 2"x 0'-2" Angle Anchor Brackets w/ 1/2 "ø Hole. Weld To Base. (4 Req'd)



DETAIL NO.

2285

City of Scottsdale Standard Details

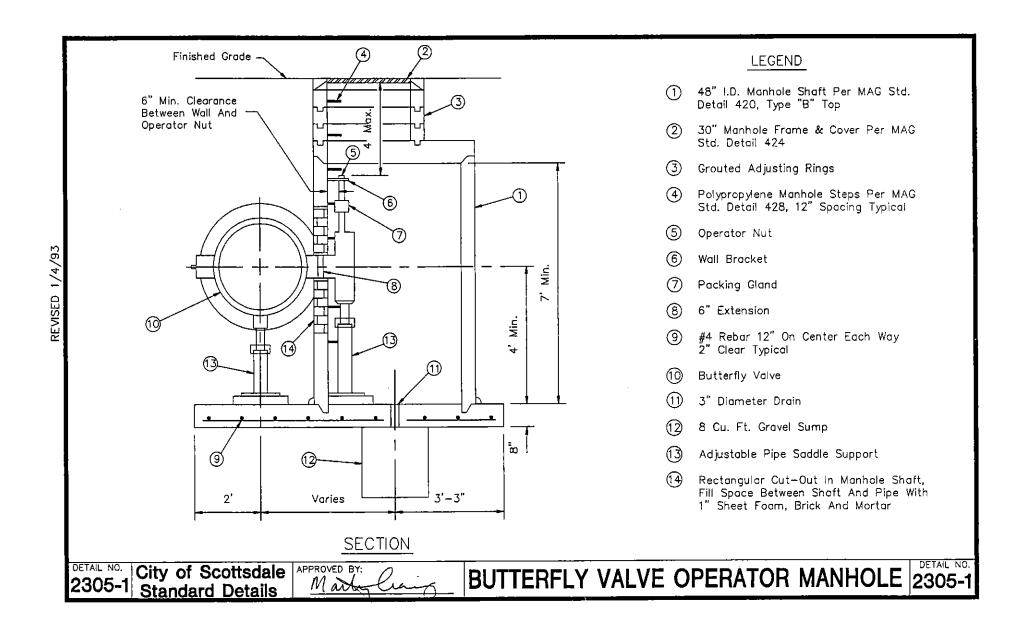
APPROVED BY: Scottsdale Standards & Specifications Committee DOUBLE BICYCLE RACK

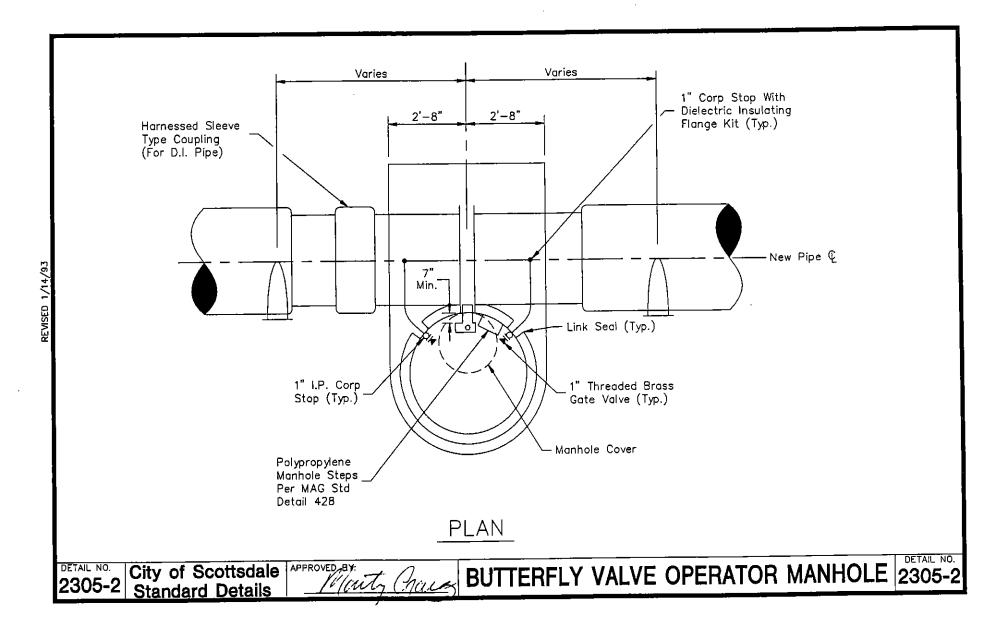
DETAIL NO.

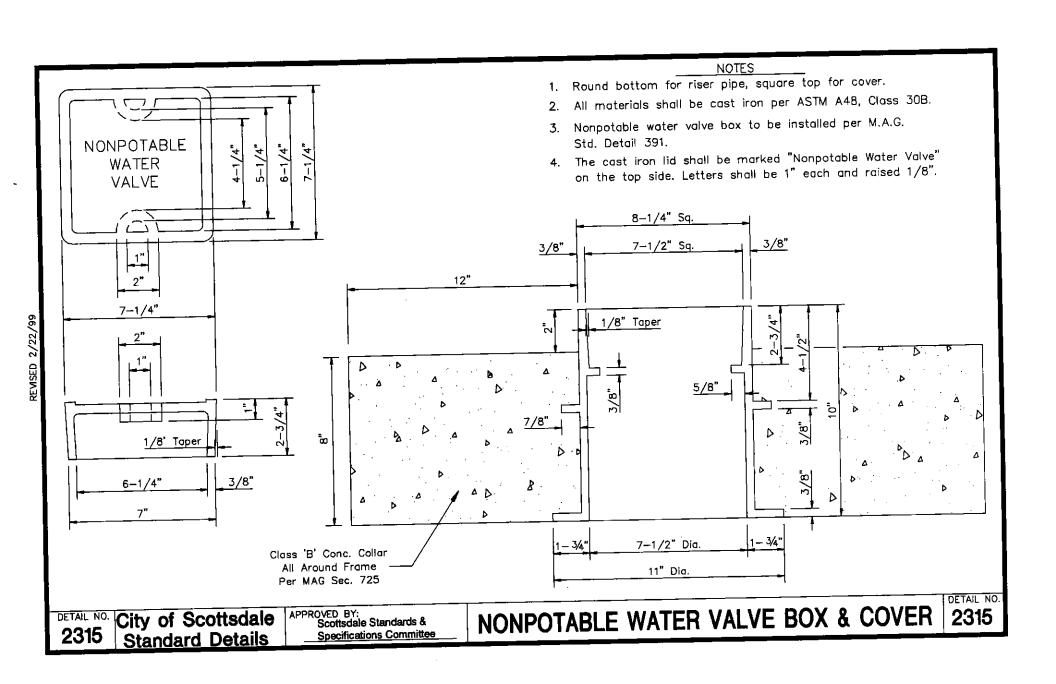
4

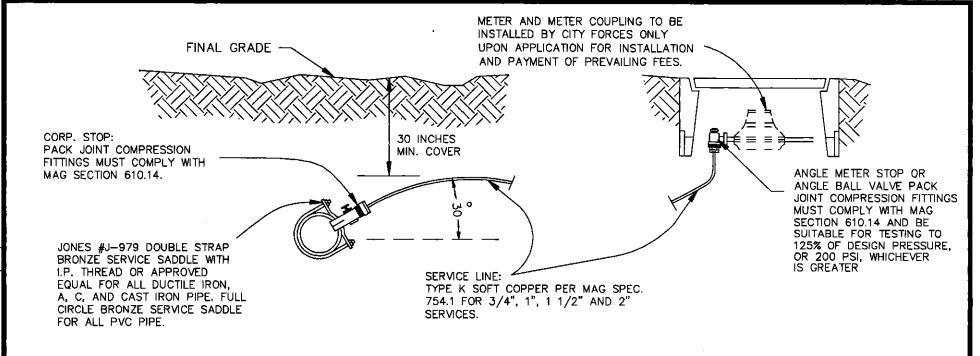


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NOTE

- 1. All taps must be made using a service saddle.
- 2. All service line sizes shall have the pack joint compression fittings for corp. stops and meter stops.
- 3. Where a contractor is installing new water lines, he shall also install the water service connection. The installation shall include the service saddle, corp. stop, service pipe, appurtenant fittings, meter stop, concrete meter box and box cover, per M.A.G. Specifications.
- concrete meter box and box cover, per M.A.G. Specifications.

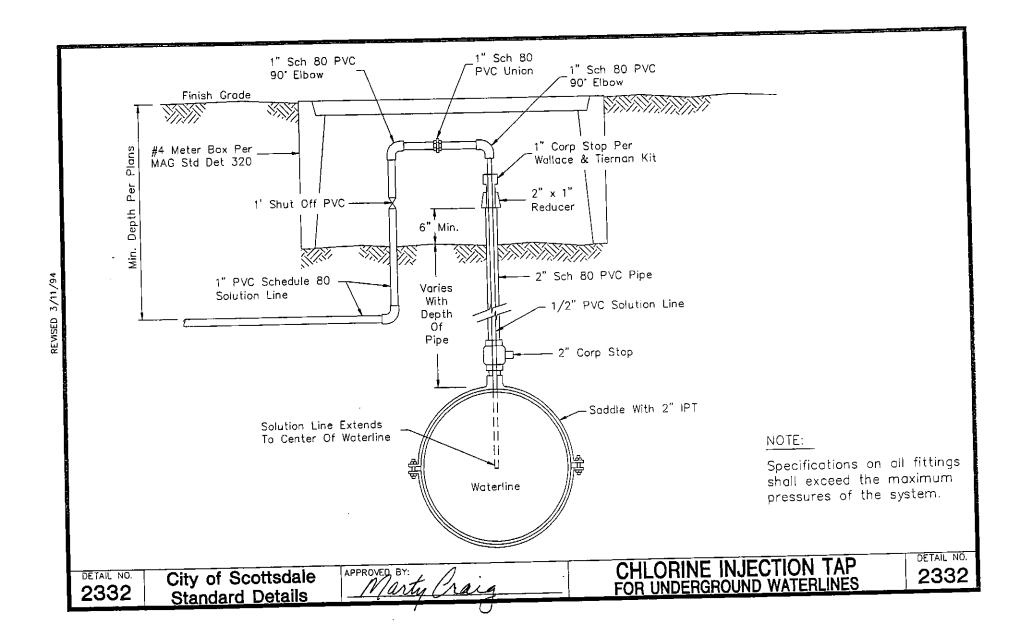
 4. Copper service lines in the 3/4", 1", 1 1/2", and 2" sizes that cross streets will be one continuous piece. Only with the express written consent of Water & Wastewater Operations will joints be permitted under a road. When this occurs, pack joint fittings will be required; no soldered joints will be permitted.
- 5. When all or part of a development is to be served by existing City of Scottsdale water mains, only authorized City of Scottsdale Water and Wastewater Operations personnel shall install the water service connection.

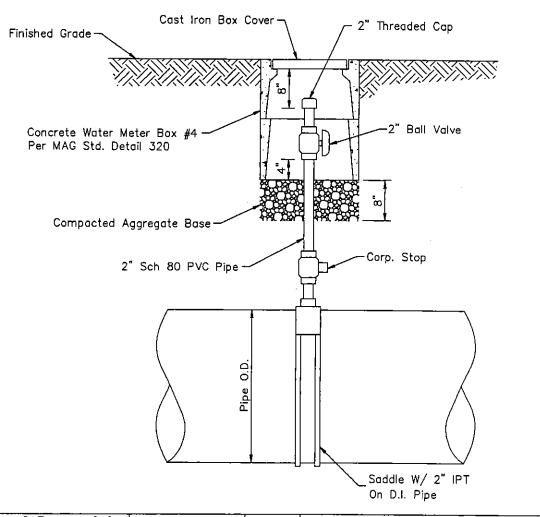
DETAIL NO

City of Scottsdale Standard Details

WATER SERVICE LINE CONNECTION

DETAIL NO.



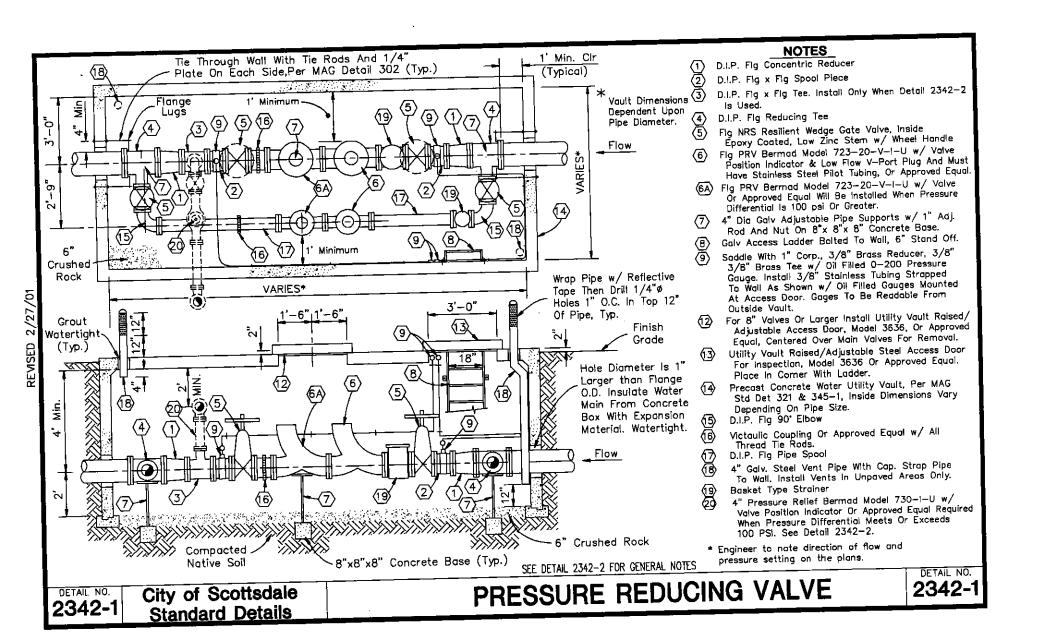


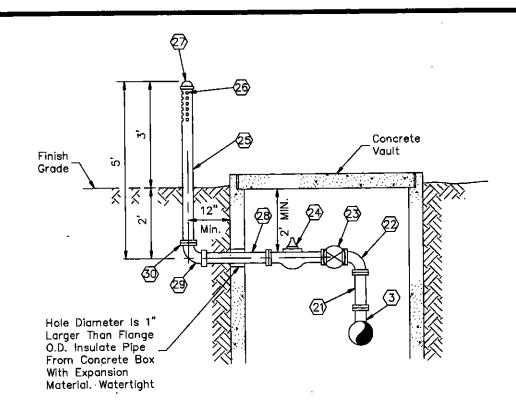
2333 City

City of Scottsdale Standard Details

APPROVED BY:

TAP FOR FUTURE CHLORINE INJECTION





PRESSURE RELIEF OUTLET ASSEMBLY DETAIL

SEE NOTE 20 DETAIL 2342-1

NOTES

- (3) Fig x Fig Tee, See Detail 2342-1
- (21) 4" Fig Connecting Piece
- 4" DIP Fig x Fig 90° Elbow, w/ Restrained Joints (Meg A Lug Or Approved Equal)
- 4" FIg NRS Resilient Wedge Gate Valve, Inside Epoxy Coated, Low Zinc Stern w/ Handwheel
- 4" Fig PRV Bermad Model 730-I-U Or Approved Equal, Epoxy Coated w/ Valve Position Indicator
- 25) 4" SCH. 40 Steel Pipe (Painted Desert Beige)
- 6 Rows 2" O.C. Of 3-1"ø Holes, 180° Spray Pattern
- 夕 4" SCH 40 Steel Cap (Threaded)
- (28) 4" Ductile Pipe Spool
- 29 4" DIP MJ x Flg 90° Elbow
- (30) Flanged Connection w/ Breakaway Bolts

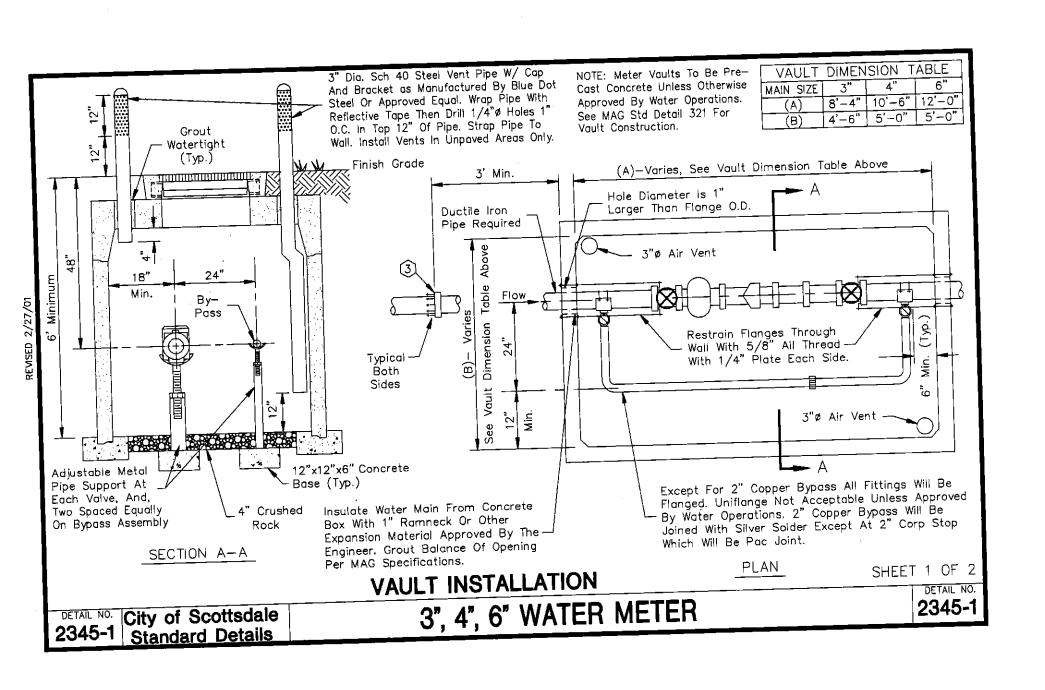
GENERAL NOTES

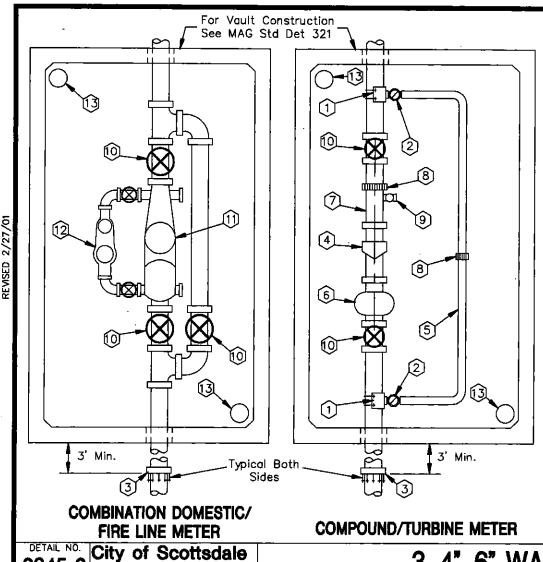
- 1. All pipe and valves are to be rated per system pressure.
- 2. Pilot lines for all controls will be stainless steel tubing.
- 3. Stainless tubing bends will be uniform and made with a tubing bender.
- 4. Bypass line (small PRV) shall be 4" Min. D.I.P.
- 5. Airvents and relief outlet riser pipe shall not be located within 12 feet of an existing edge of pavement or within 2 feet of a barrier type curb or 2' back of sidewalk.

DETAIL NO. 2342-2 City of Scottsdale Standard Details

PRESSURE REDUCING VALVE

DETAIL NO. 2342-2





KEY NOTES

- Double Strap All Bronze Service Saddle, Or Flanged x Flanged Tee With Flanged X Flanged Valve For Sizes 3" Or Larger.
- (2) Corp. Stop, 2"(Ball Type), Or R.W. Gate Valve With Non-Rising Stem Handwheel Operator For 3" Or Larger.
- (3) Adaptor, Flanged To Mech. Joint For A.C.P.
- (4) Turbine (High Flow) Or Compound Meter, See Note 4 Below.
- (5) 2" Ridged Type "K" Copper By—Pass Line, 3" Or Larger To Be Ductile Iron. Not Less Than One Pipe Size Smaller Than Meter In Note 4.
- (6) Strainer, Supplied with Meter.
- Flanged Spool, (3 Pipe Diameters In Length, Min.).
- Provide Victaulic Coupling Or Approved Equal For All Lines 3" Or Larger.
- (9) 2" Threaded Outlet And Ball Valve. Not Needed if Vertical Test Valve Is Provided On Meter.
- [10] Resilient Wedge Gate Valve, Flanged, With Hand Wheel. Open Left, With Non-Rising Stem.
- (1) Turbine (High Flow) Or Compound Meter, See Note 4 Below.
- 2" Turbine Meter: Sensus "W-160" Or Hersey "MHR" Or Neptune Trident Turbine.
- [13] 3"ø Air Vent, See Sheet 1 Of 2.

NOTES

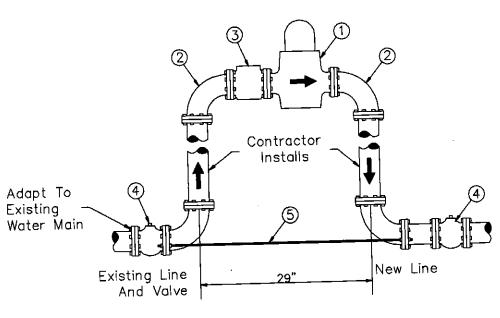
- 1. For Larger Meters Special Vault Design Is Required.
- Use Of Remote Reading Device At Option Of Utility.
- An Approved Backflow Prevention Assembly Shall Be Required Downstream Of The Water Meter, Contact Water Resources, Backflow Prevention For Specific Information.
- 4. Meter To Be Provided By City Upon Payment Of Fees.

SHEET 2 OF 2

DETAIL NO.

3, 4", 6" WATER METER

Standard Details



- Contractor to supply and install above ground piping and fittings to accommodate meter, strainer and 2 — 90° ells.
- Contractor to remove piping and fittings after acceptance of new water main and complete connection as per MAG Standards.

Adapt Size And Material To New Non—Approved Water Main

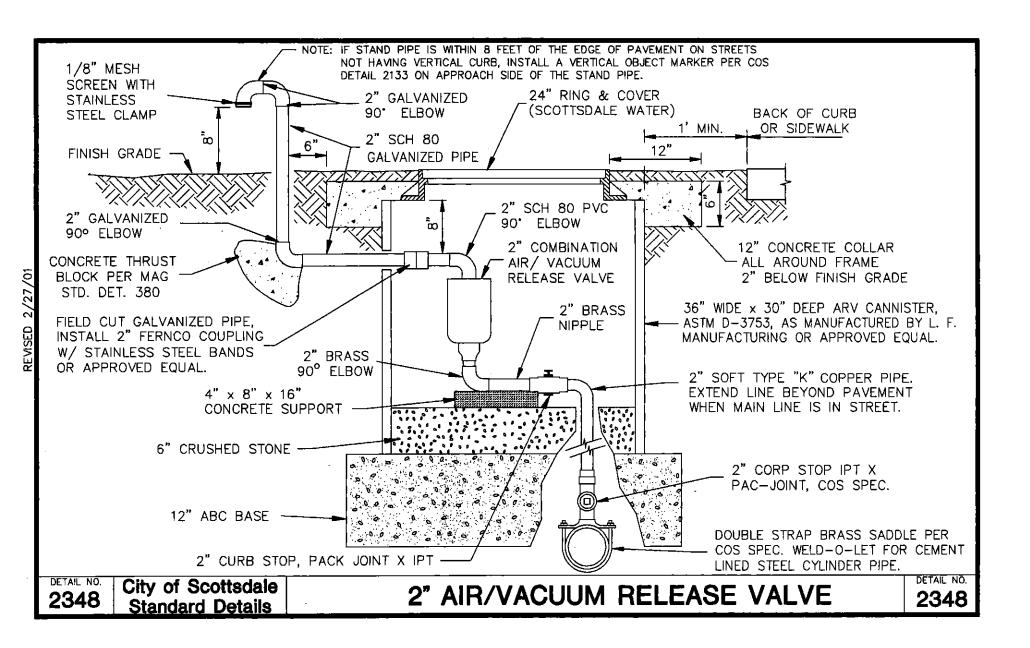
LIST OF MATERIALS

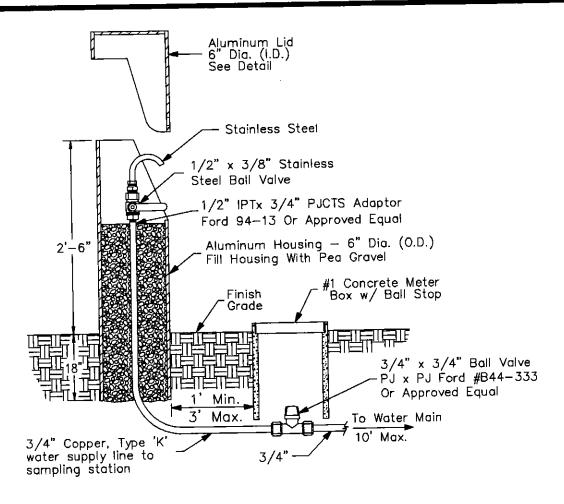
- 3", 4" & 6" Pressure regulating valve with meter and check feature — supplied by COS.
- 2 3", 4" & 6" Flanged ductile iron 90° ell supplied by COS.
- 3 3", 4" & 6" Strainer supplied by COS.
- (4) Line valves shall be within a 20' maximum distance upstream and downstream of flow meter or as approved by COS, and shall remain in-place after removal of temporary meter.
- (5) 3/4"ø zinc coated threaded rod.

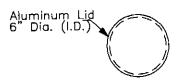
2346 City of Scottsdale
Standard Details

TEMPORARY CONSTRUCTION METER

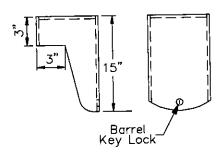
DETAIL NO.







Top View



Side View

Front Vlew

LID DETAILS N.T.S.

NOTES:

- Water Quality Sampling Station to be Koralean or approved equal.
- Keys to locks shall be delivered to City of Scottsdale Water Quality Department upon acceptance.

TYPICAL INSTALLATION

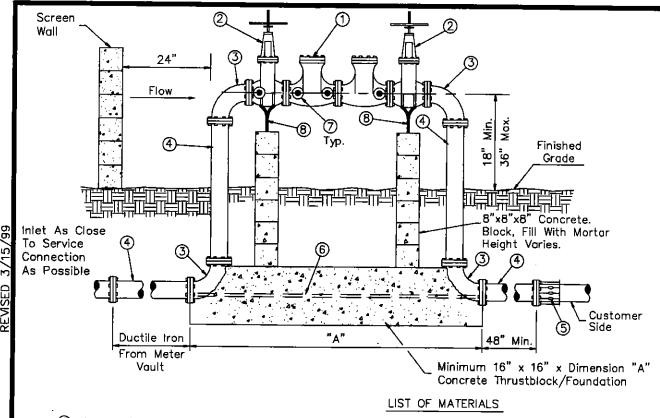
N.T.S.

2349

City of Scottsdale Standard Details

APPROVED BY:
Scottsdale Standards &
Specifications Committee

WATER QUALITY SAMPLING STATION



- 1. Contact the City Of Scottsdale Water And Wastewater Operations, Backflow Prevention. 312-5668, for latest list of approved backflow prevention assemblies or certified testers.
- 2. Backflow preventers must be tested by a certified tester before final approval is issued.
- 3. Backflow preventers shall be painted light tan or a color to match the building. Do not paint the name plate or any brass parts on the assembly.
- 4. For backflow preventers requiring guard posts see Detail 2356. Backflow preventers enclosed by screening shall maintain a 24 inch clearance around the assembly.
- 5. Finished grade underneath the backflow preventer shall be at 95% compaction.
- 6. Backflow preventers on fire lines may require tamper switches on the shut off valves. Contact City Of Scottsdale Plan Review, Fire Dept.
- 7. Call for underground inspection before backfilling trench.
- 8. Vertical installations of assemblies on fire sprinkler systems are allowed using assemblies approved for use in the vertical position on fire systems.

- Approved double check valve backflow prevention assembly.
- Resilient seated gate valve. O.S. & Y. (fire line connection) N.R.S. (non fire line)
- ③ 90° ell. Flanged D.I.P. 3" thru 10", Mega Lug or approved equal may be used on underground joints.
- Pipe spool. Flanged D.I.P. 3" thru 10", Mega Lug or approved equal may be used on underground joints.
- ⑤ Flanged adapter (when required)

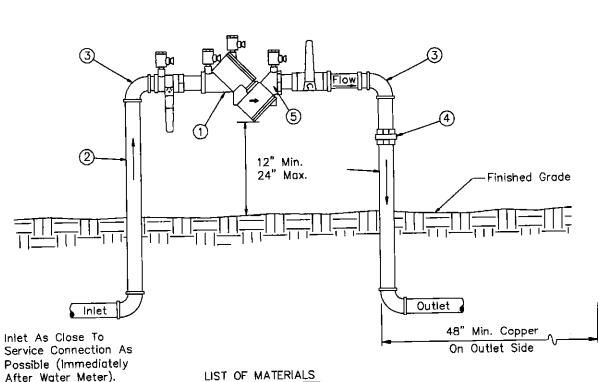
- 6 3/4" zinc coated threaded rod, (5/8" rod on 3" to 4" sizes), bolt to flanges as shown, typical both sides.
- (7) Test cocks with brass plugs or adaptors with caps installed. (4 required)
- Adjustable metal pipe supports and concrete block supports with 1" adjusting rod and nut on assemblies 4" and larger. Install above grade.

DETAIL NO. 2351

City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3 INCHES THRU 10 INCHES



- 1. Contact the City Of Scottsdale Water And Wastewater Operations, Backflow Prevention, 312-5668, for latest list of approved backflow prevention assemblies or certified testers.
- 2. Backflow preventers must be tested by a certified tester before final approval is issued.
- 3. Copper fittings shall be connected with lead free solder joints.
- 4. Finished grade underneath the backflow preventer shall be at 95% compaction.
- 5. All nipples to be copper or brass.
- Piping under the City right of way must be type "K" copper.
- 7. Call for underground inspection before backfilling trench.
- 8. Vertical installations of assemblies on fire sprinkler systems are allowed using assemblies approved for use in the vertical position on fire systems.

LIST OF MATERIALS

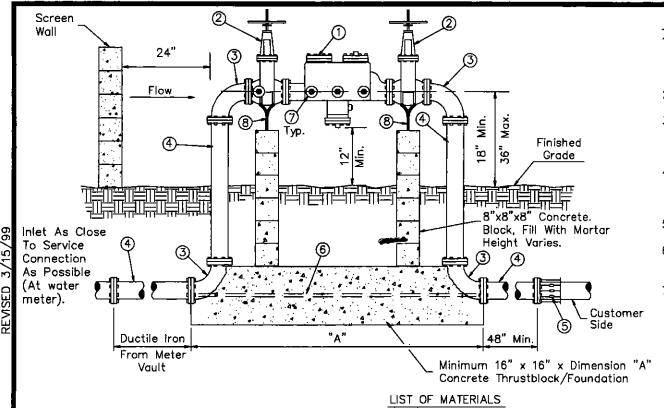
- 1 Approved double check valve backflow prevention
- assembly, ball valves included.
 ② Pipe spool, type "L" hard copper, 3/4" thru 2 1/2".
- (3) 90° ell, copper, 3/4" thru 2 1/2".
- Pipe union, brass or copper.
- Test cocks with brass plugs or adaptors with caps installed. (4 required)

Copper On Inlet Side.

City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3/4 INCH THRU 2 1/2 INCHES



- Contact the City Of Scottsdale Water And Wastewater Operations, Backflow Prevention, 312-5668, for latest list of approved backflow prevention assemblies or certified testers.
- Backflow preventers must be tested by a certified tester before final approval is issued.
- Backflow preventers shall be painted light tan or a color to match the building. Do not paint the name plate or any brass parts on the assembly.
- For backflow preventers requiring guard posts see Detail 2356. Backflow preventers enclosed by screening shall maintain a 24 inch clear ance around the assembly.
- Finished grade underneath the backflow preventer shall be at 95% compaction.
- Backflow preventers on fire lines may require tamper switches on the shut off valves. Con tact City Of Scottsdale Plan Review, Fire Dept.
- Call for underground inspection before backfilling trench.

- Approved reduced pressure principle backflow prevention assembly.
- ② Resilient seated gate valve. O.S. & Y. (fire line connection). N.R.S. (non fire line)
- 3 90 ell. Flanged D.I.P. 3" thru 10", Mega Lug or approved equal may be used on underground joints.
- Pipe spool. Flanged D.I.P. 3" thru 10", Mega Lug or approved equal may be used on underground joints.
- (5) Flanged adapter (when required)

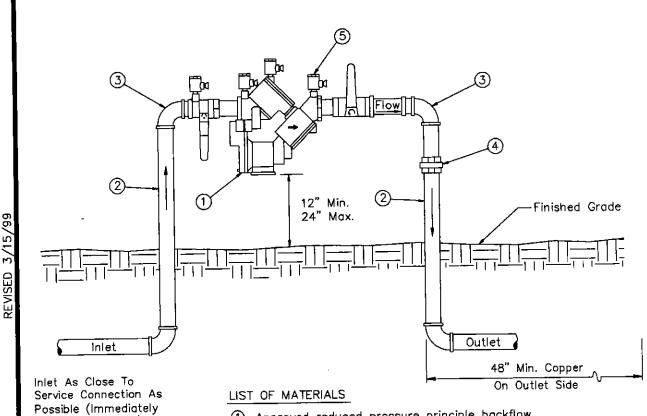
- 6 3/4" zinc coated threaded rod, (5/8" rod on 3" to 4" sizes), bolt to flanges as shown, typical both sides.
- Test cocks with brass plugs or adaptors with caps installed. (4 required)
- Adjustable metal pipe supports and concrete block supports with 1" adjusting rod and nut on assemblies 4" and larger. Install above grade.

2353

City of Scottsdale Standard Details APPROVED BY:
Scottsdale Standards &
Specifications Committee

REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3 INCHES THRU 10 INCHES

DETAIL NO.



- 1. Contact the City Of Scottsdale Water And Wastewater Operations, Backflow Prevention 312-5668, for latest list of approved backflow prevention assemblies or certified testers.
- 2. Backflow preventers must be tested by a certified tester before final approval is issued.
- Copper fittings shall be connected with lead free solder joints.
- Finished grade underneath the backflow preventer shall be at 95% compaction.
- All nipples to be copper or brass.
- Piping under the City right of way must be type "K" copper.
- Call for underground inspection before backfilling trench.

After Water Meter). Copper On Inlet Side.

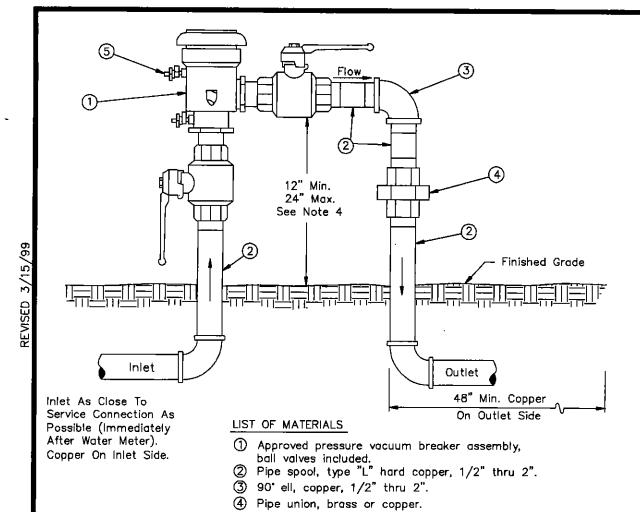
- (1) Approved reduced pressure principle backflow prevention assembly, ball valves included.
- Pipe spool, type "L" hard copper, 3/4" thru 2 1/2".
- 3 90° ell, copper, 3/4" thru 2 1/2".
- Pipe union, brass or copper.
- Test cocks with brass plugs or adaptors with caps installed. (4 Required)

2354

City of Scottsdale Standard Details

APPROVED BY: Scottsdale Standards & Specifications Committee REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3/4 INCH THRU 2 1/2 INCHES

DETAIL NO.



- 1. Contact the City Of Scottsdale Water And Wastewater Operations, Backflow Prevention, 312-5668, for latest list of approved backflow prevention assemblies or certified testers.
- Backflow preventers must be tested by a certified tester before final approval is issued.
- 3. Pressure vacuum breakers must be installed at least 12" above all downstream piping.
- 4. If this distance exceeds 24 inches, a reduced pressure principle backflow prevention assembly must be utilized. See Detail 2354.
- 5. Copper fittings shall be connected with lead free solder joints.
- Finished grade underneath the backflow preventer shall be at 95% compaction.
- All nipples to be copper or brass.
- Piping under the City right of way must be type "K" copper.
- Call for underground inspection before backfilling trench.

DETAIL NO.

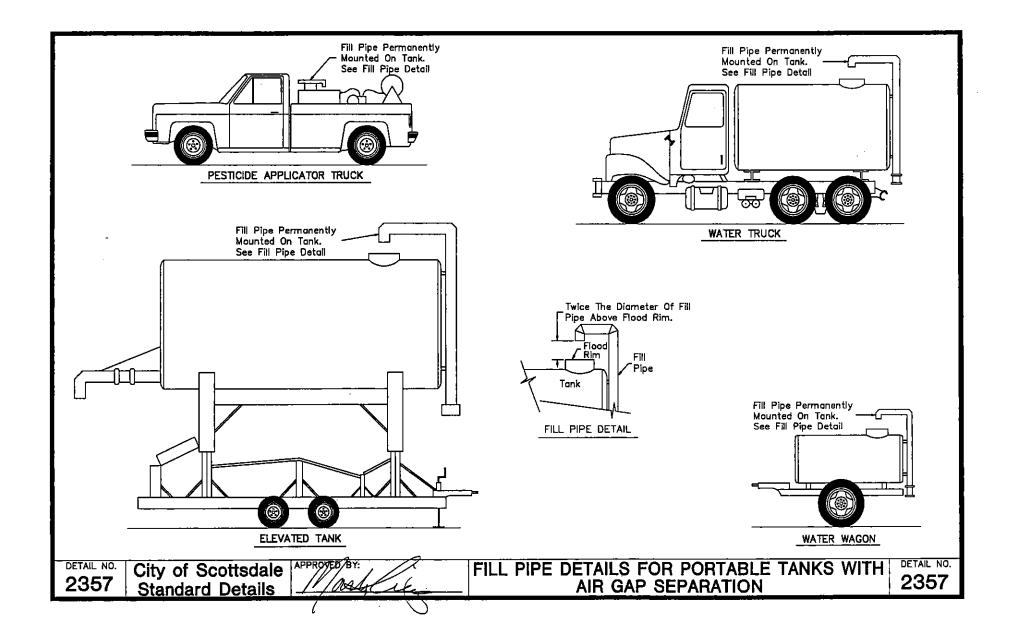
City of Scottsdale 2355 Standard Details

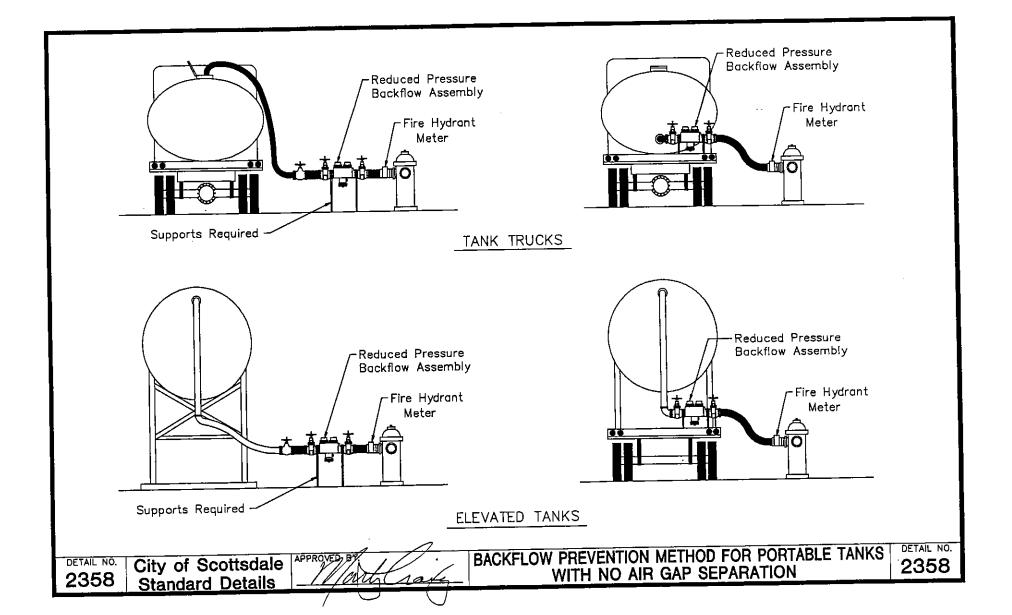
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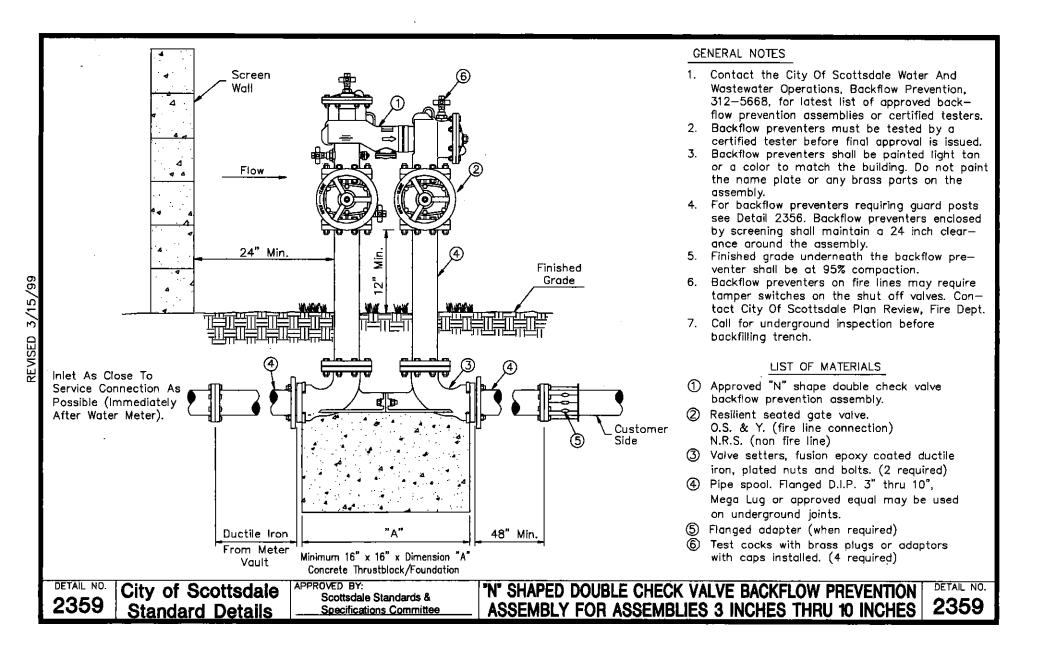
Scottsdale Standards & Specifications Committee

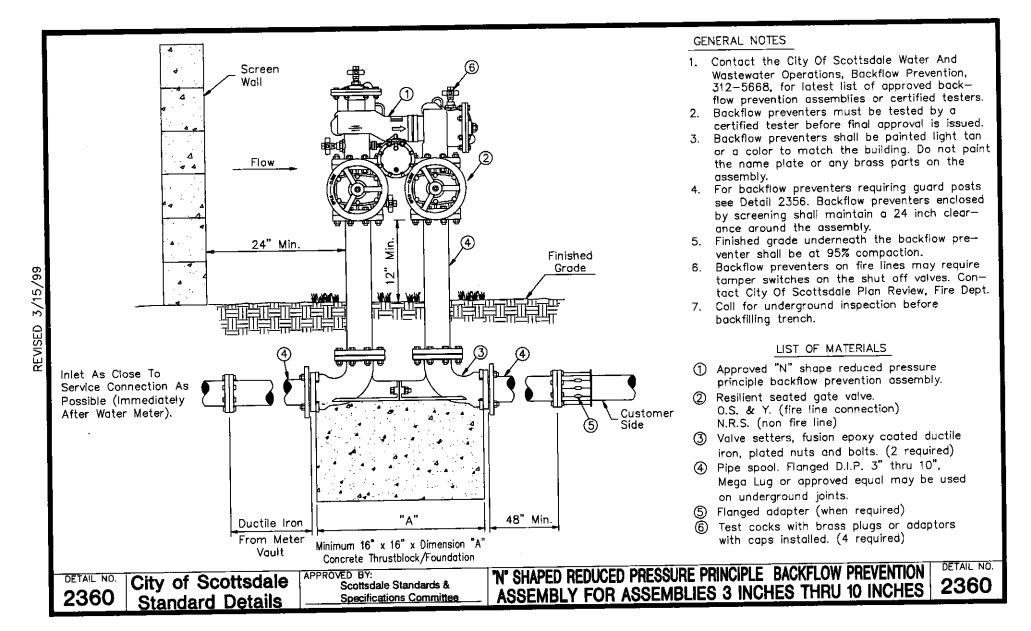
⑤ Test cocks with brass plugs or adaptors with caps installed. (2 required)

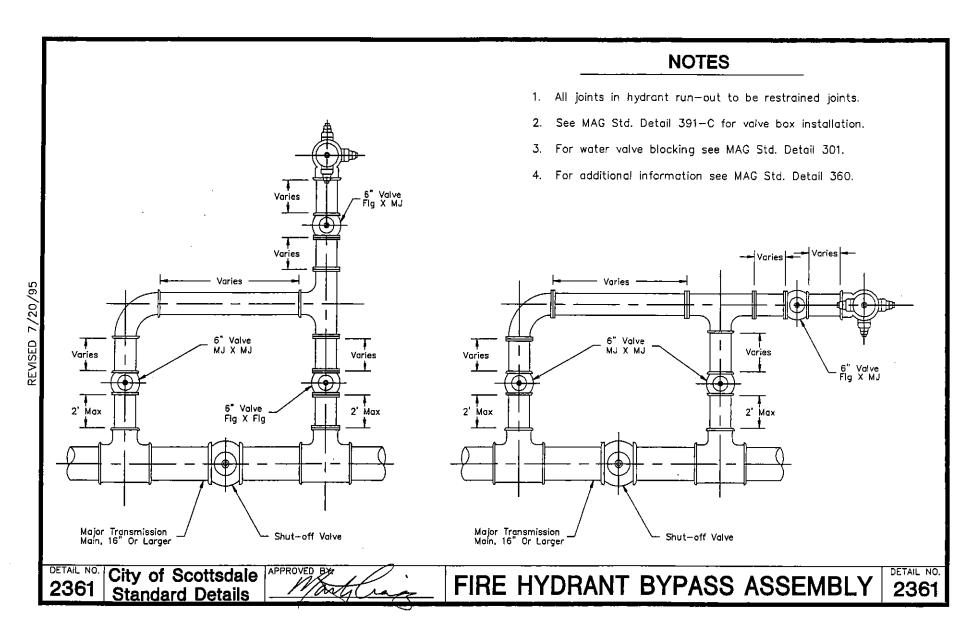
> PRESSURE VACUUM BREAKER ASSEMBLY FOR ASSEMBLIES 1/2 INCH THRU 2 INCHES

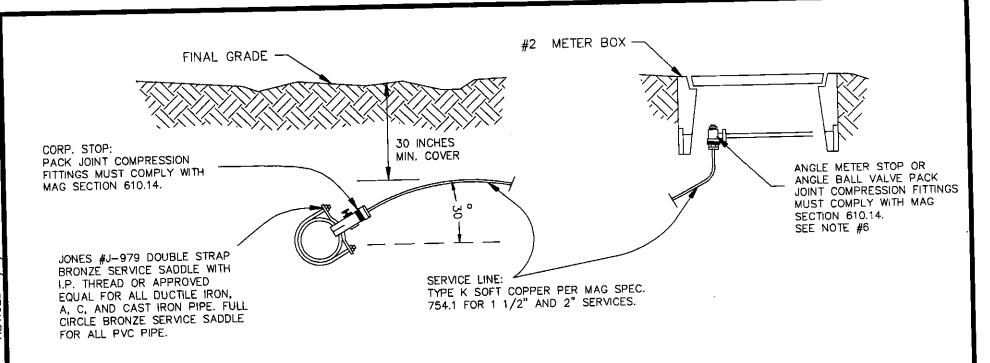












NOTE:

1. All taps must be made using a service saddle.

2. All service line sizes shall have the pack joint compression fittings for corp. stops and meter stops.

3. Where a contractor is installing new water lines, he shall also install the water service connection. The installation shall include the service saddle, corp. stop, service pipe, appurtenant fittings, meter stop, concrete meter box and box cover, per M.A.G. Specifications.

4. Copper service lines in the 1 1/2", and 2" sizes that cross streets will be one continuous piece. Only with the express written consent of Water & Wastewater Operations will joints be permitted under a road. When this occurs, pack joint fittings will be required; no soldered joints will be permitted.

5. When all or part of a development is to be served by existing City of Scottsdale water mains, only authorized City of Scottsdale Water and Wastewater Operations personnel shall install the fire service

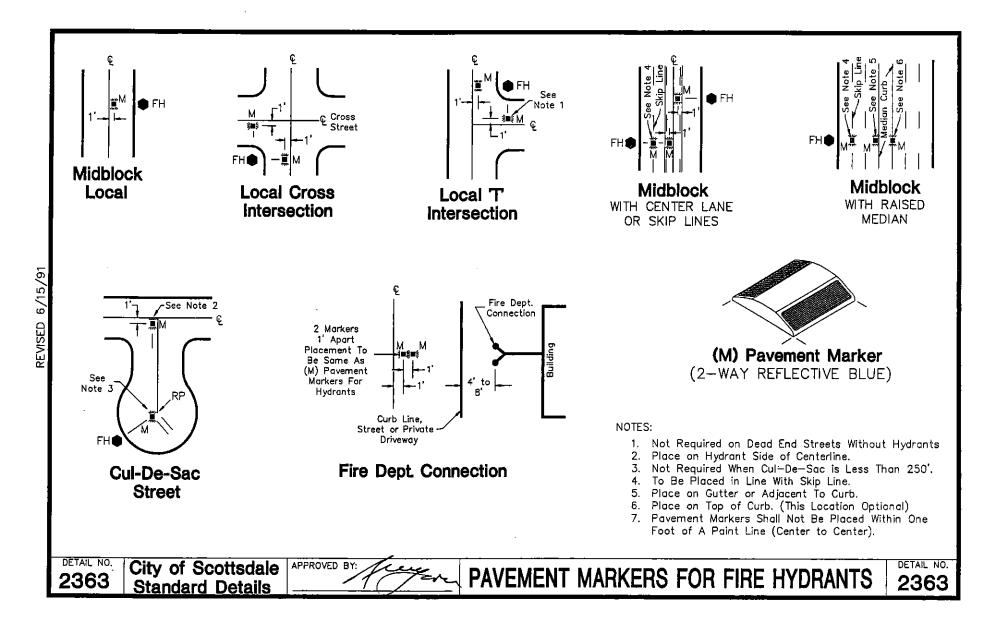
6. Fire Department Identification Tag is required. Water resistant tag shall be affixed to valve in meter box and shall state: "DO NOT CLOSĚ! Fire Sprinkler Supply Line".

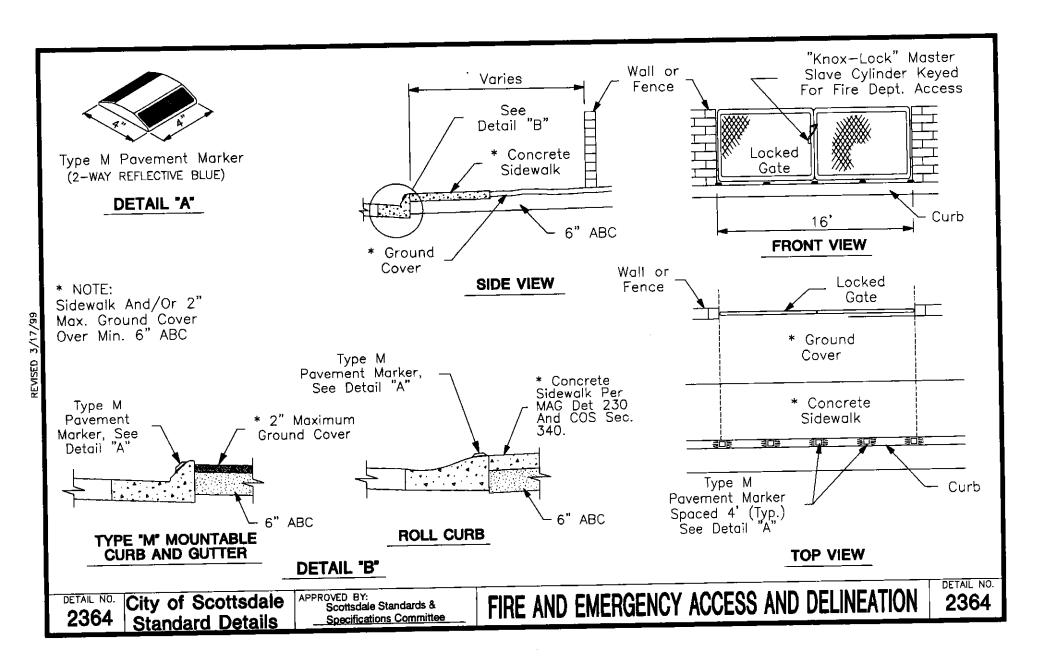
DETAIL NO.

City of Scottsdale Standard Details

1 1/2" - 2" FIRE LINE CONNECTION

DETAIL NO.





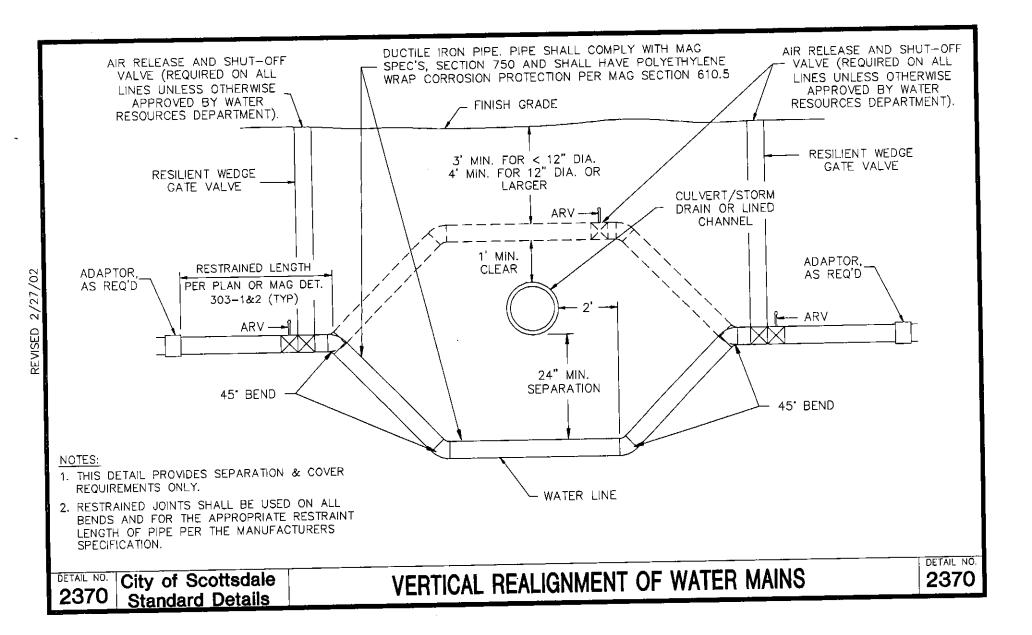
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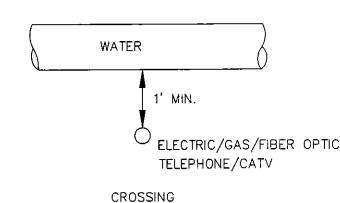
- 1. At the beginning and end of the fire lane, the sign shall have a single headed arrow pointing in the direction the regulation is in effect. The intermediate signs shall have double headed arrows pointing in both directions.
- 2. The maximum spacing of the signs shall be 100', contingent upon Traffic Engineering's review and approval.
- 3. The signs shall be set at an angle of not less than 30° nor more than 45° with the curb or line of traffic flow
- 4. The clearance to the bottom of the sign shall be 7 feet. There shall be no other signs attached to the sign or the sign pole.
- 5. The sign plate shall be a minimum of 12" x 18" with a thickness of 0.80".
- 6. The sign face shall have a white, ASTM Type II (super engineering grade) reflective background with a red reflective legend. Use the standard sign face number R7—32 or equivalent incorporating additional information to complete the sign as shown above.

2365 City of Scottsdale Standard Details

FIRE LANE SIGN

DETAIL NO.





LEGEND

D1 = 3' Min. for pipe < 12" dia

D1 = 4' Min. for pipe \geq 12" dia

D2 = Minimum Cover

W = Horizontal Separation

NOTES

- . Electric separation requirements are for primary electric conductors only. For service conductors see plans.
- 2. Primary electric, gas, telephone, cable TV or fiber optic lines shall not cross above a water line without written approval from the City's Water Resources Department. If this approval is obtained, a utility locator strip and ABC slurry conforming to COS Specifications Sec. 601.3.6 are required.

D2

W≥ 3'

NO SEPARATION
REQUIREMENT

ELECTRIC/GAS/FIBER OPTIC
TELEPHONE/CATV

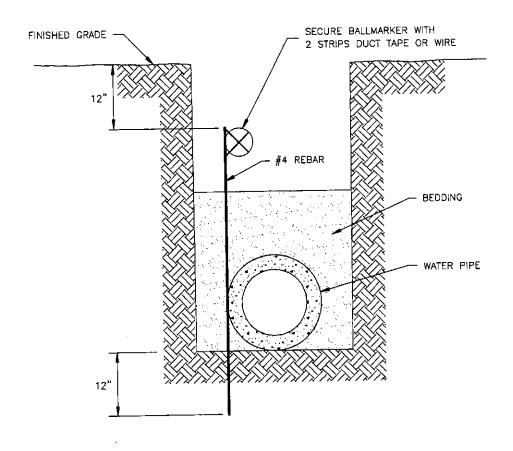
2372 City of Scottsdale Standard Details

APPROVED BY:
Scottsdale Standards &
Specifications Committe

MINIMUM UTILITY SEPARATION REQUIREMENTS

2372

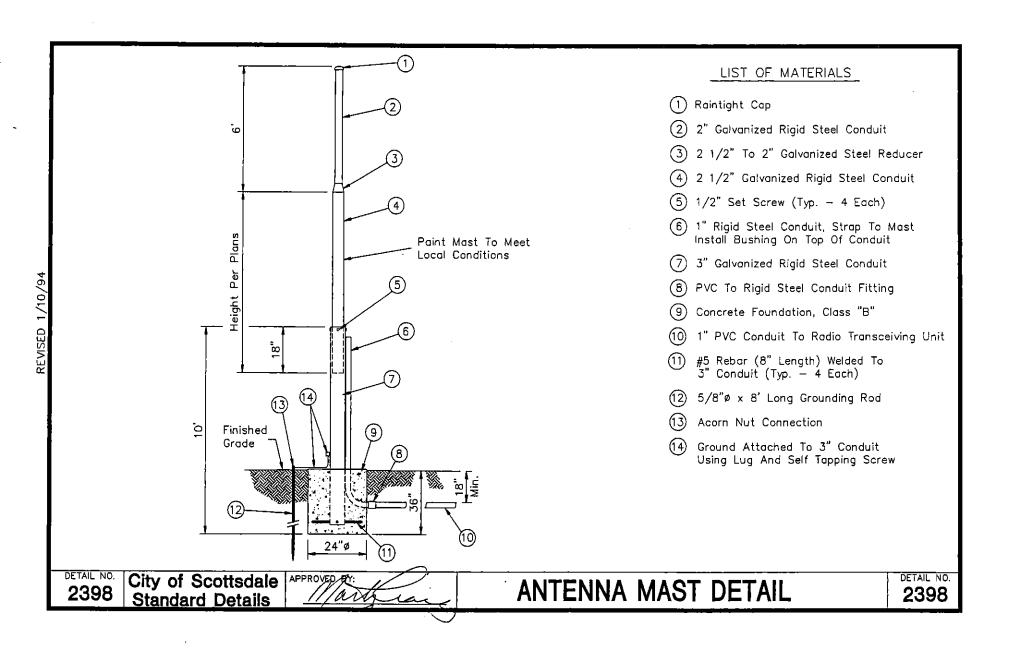
REVISED 8/2

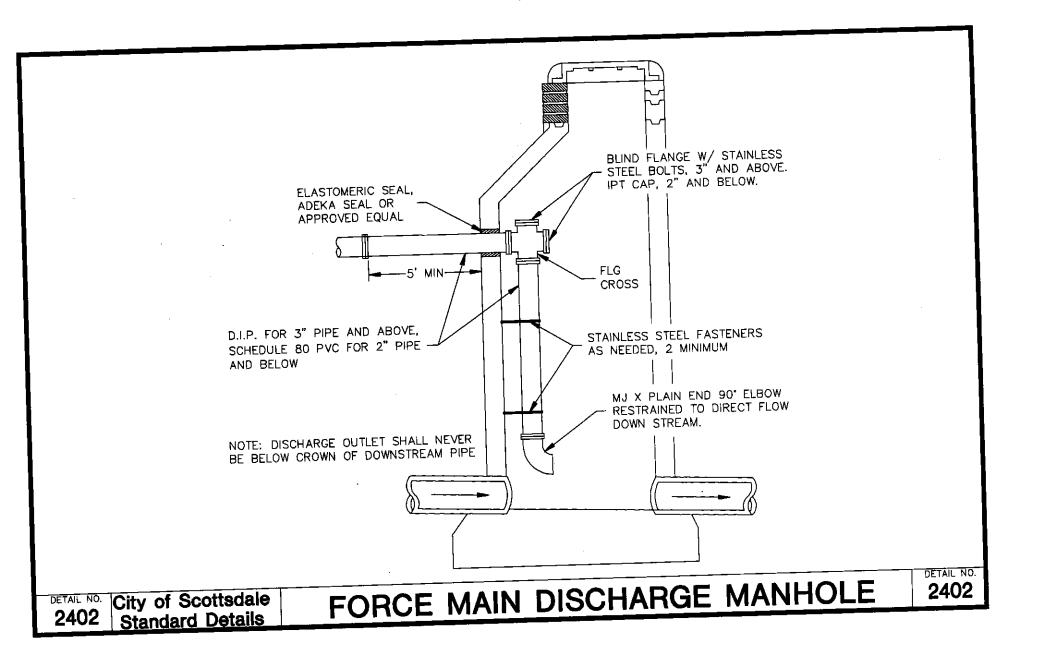


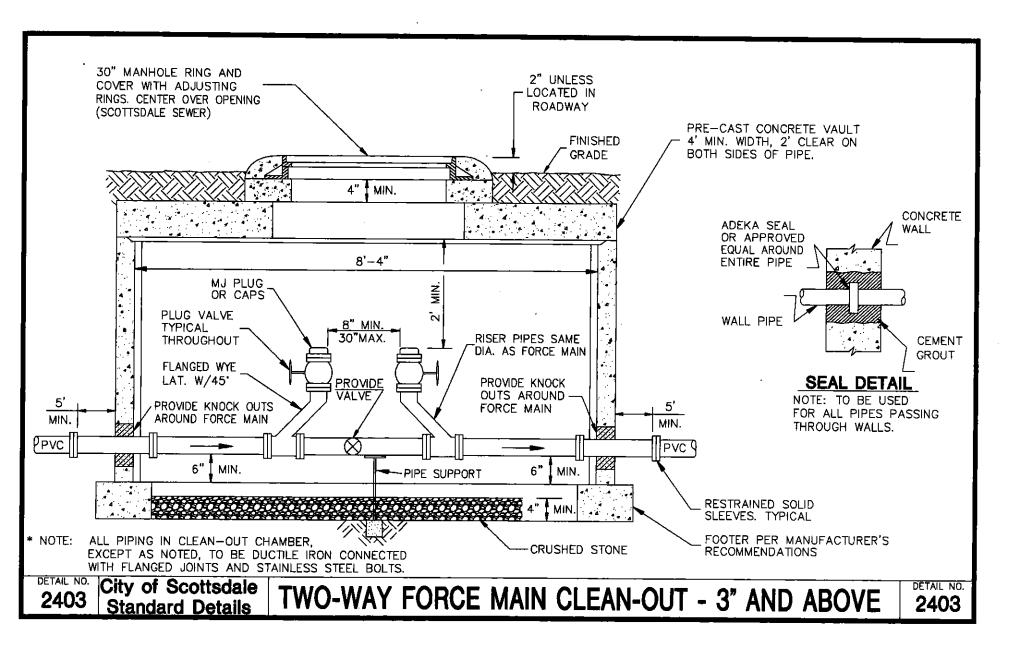
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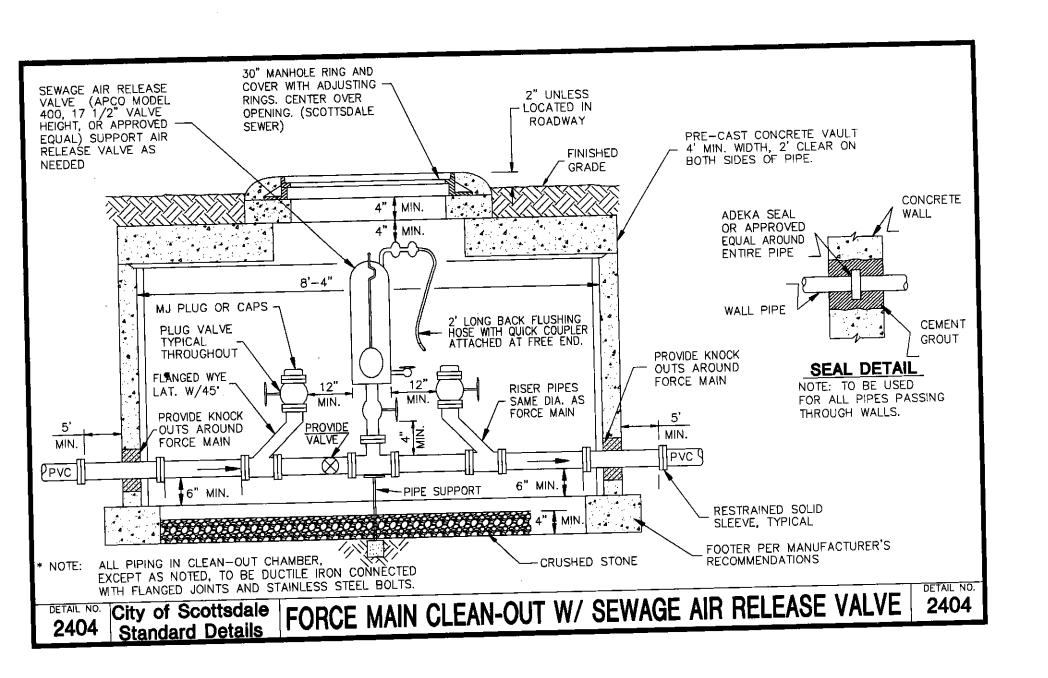
City of Scottsdale Standard Details **ELECTRONIC BALLMARKER PLACEMENT**

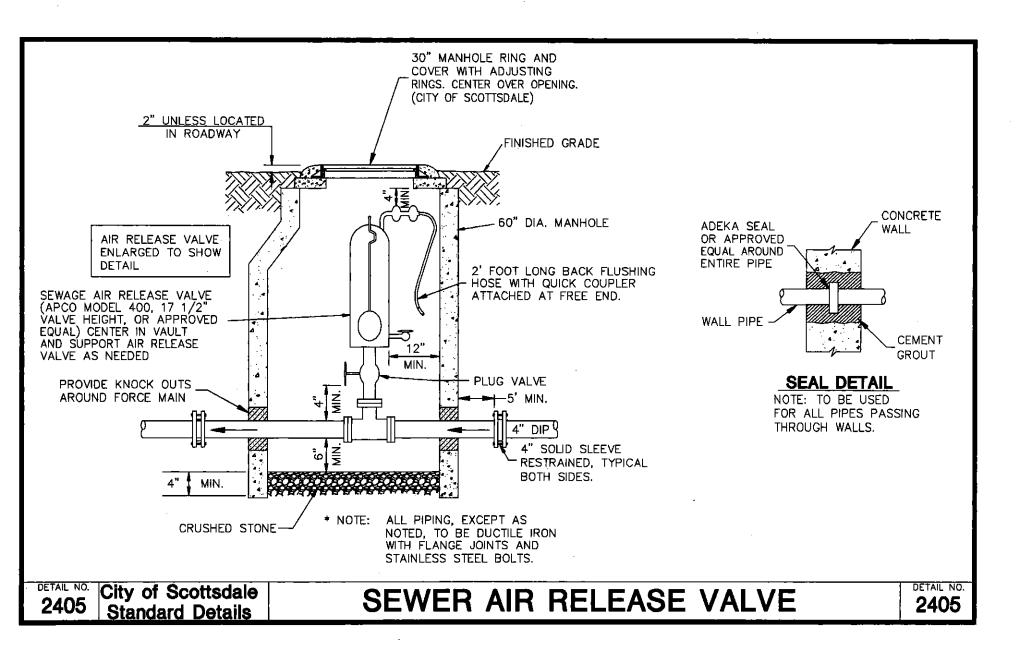
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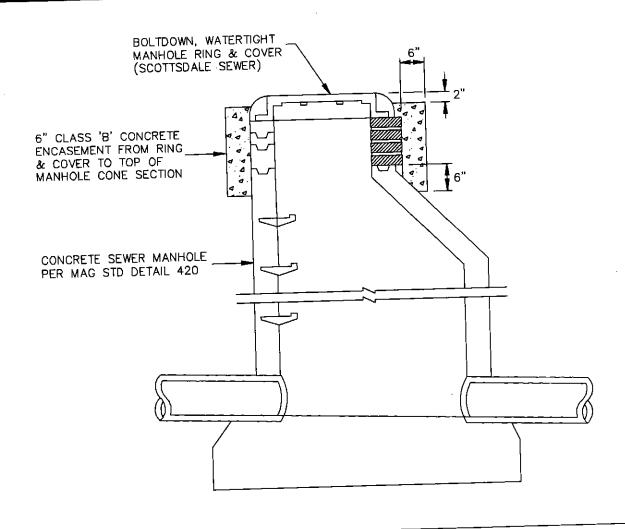








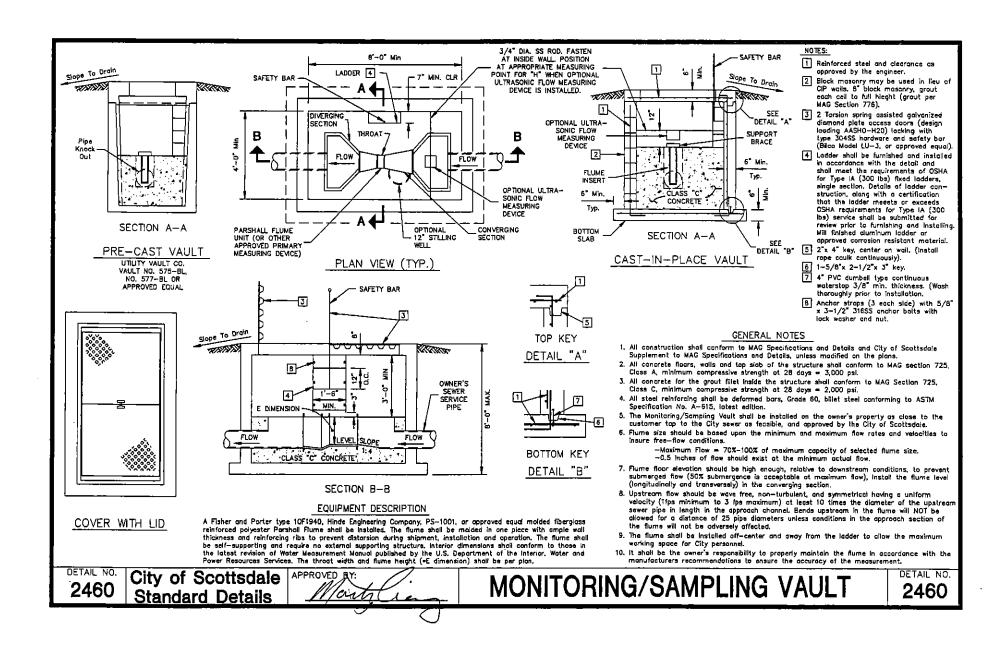




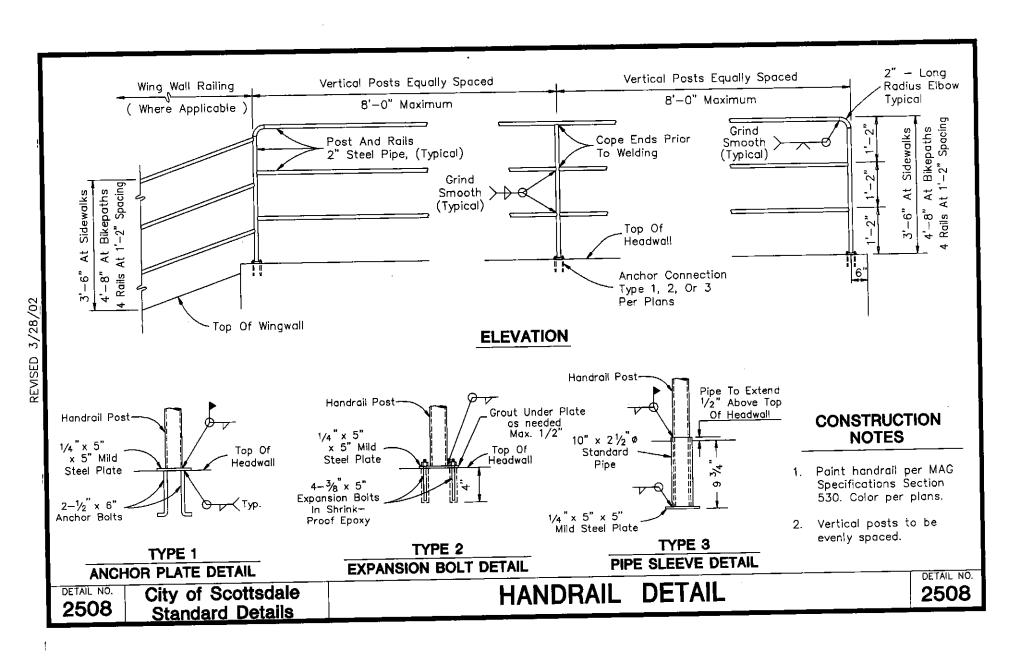
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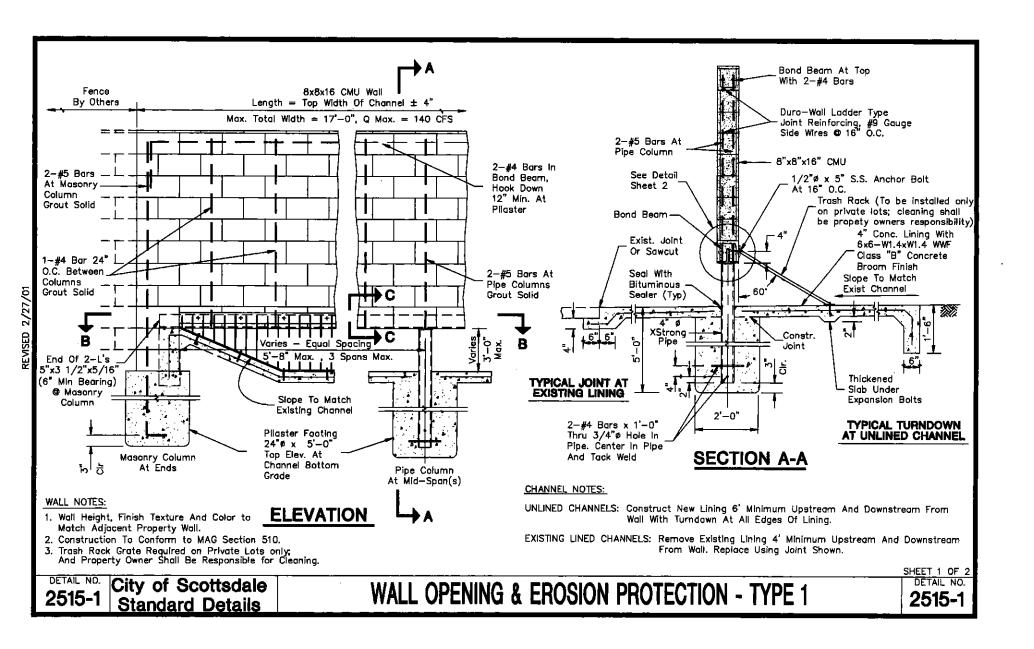
City of Scottsdale Standard Details WATER TIGHT CONCRETE SEWER MANHOLE

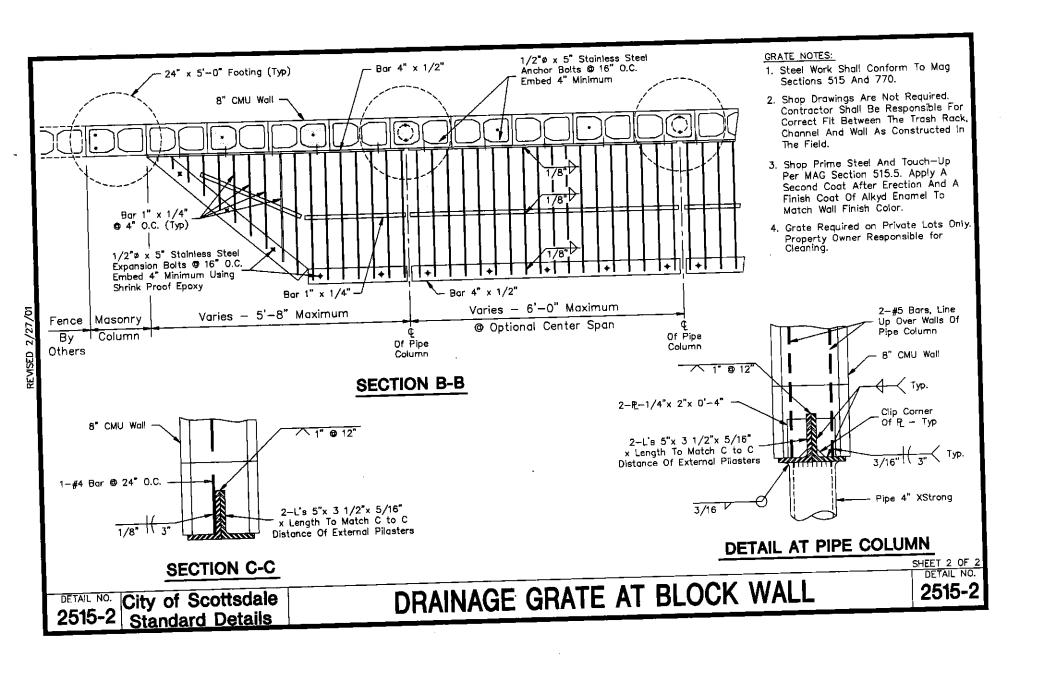
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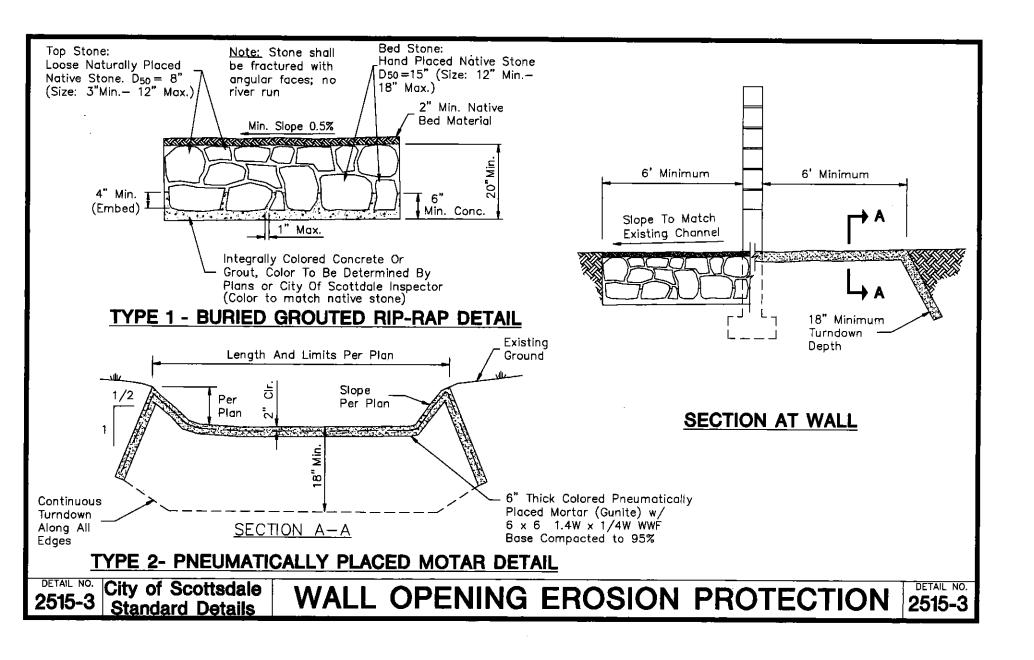


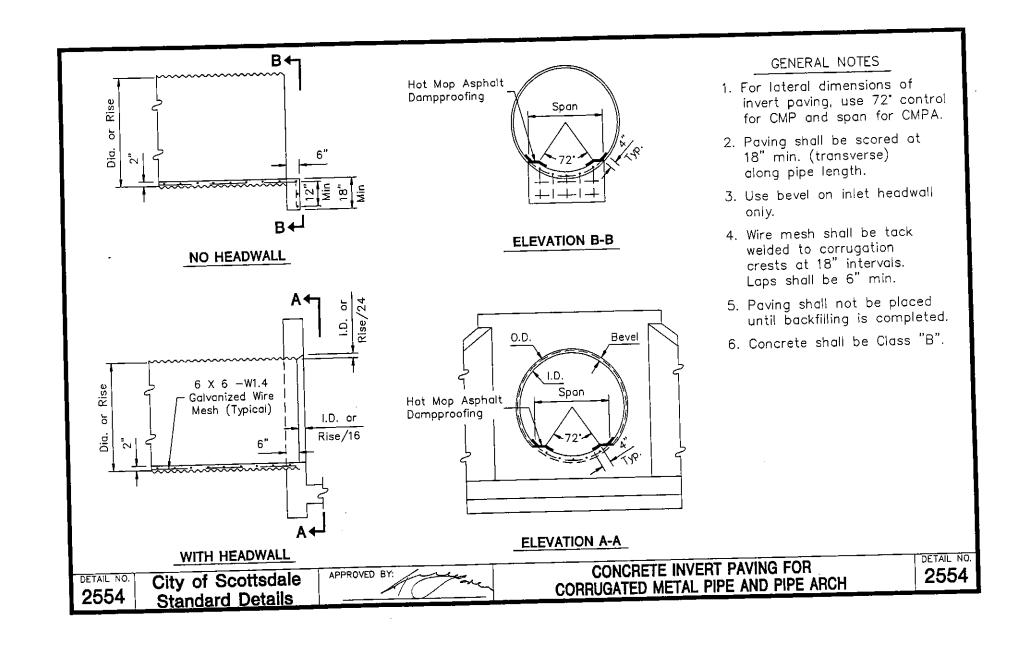
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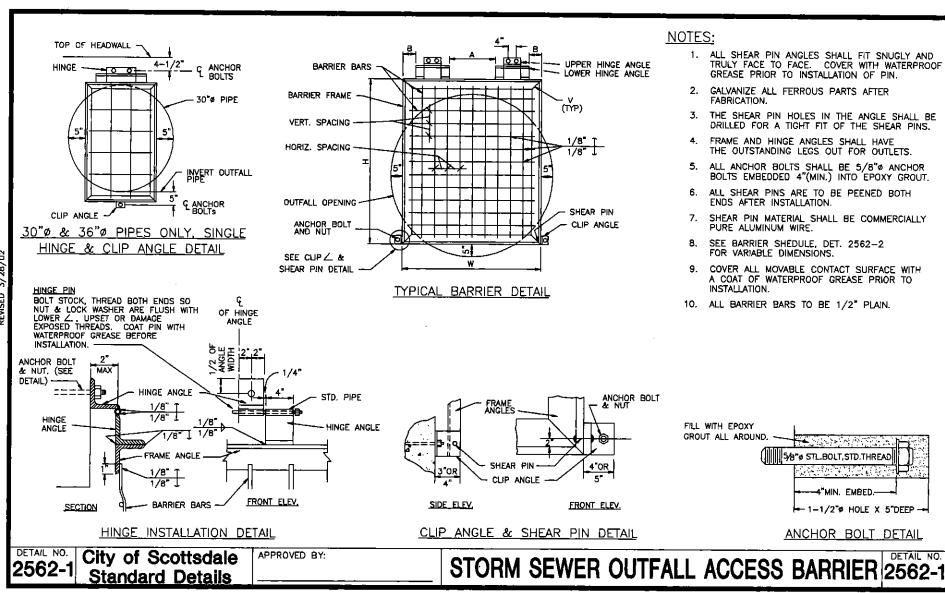












3/28/02

	SIZE OF OUTFALL CONDUIT	FRAME ANGLES	SHEAR PIN CLIP ANGLES	SHEAR PINS	HINGE PINS	HINGE ANGLES	HINGE STD. PIPE	NO. OF EQUAL BARRIER BAR SPACES (HORIZ.)	NO. OF EQUAL BARRIER BAR SPACES (VERT.)	H (OUT TO OUT FRAME ANGLES)	(OUT TO OUT FRAME ANGLES)	A	В
ŀ	30"	2X2X1/4	4X4X1/4	1-1/8#	1/2*#	2X2X1/4	3/4"	3	5	34"	20"	SINGLE CENTE	
ŀ	36"	2X2X1/4	4X4X1/4	1-1/8#	3/4"#	2-1/2X 2-1/2X1/4	1-	4	6	40"	26"	SINGLE CENTE	
	42"	2X2X1/4	4X4X1/4	2-1/80	1/2"#	2X2X1/4	3/4"	5	6	42"	32"	0	0
	48"	3X3X7/16	5x3x1/4	2-1/8#	3/4**	2-1/2X 2-1/2X1/4	1*	5	7	47"	38"	3"	1"
2	48 54"	3X3X7/16	 	2-1/8¢	3/4"#	2-1/2X 2-1/2X 2-1/2X1/4	1"	6	8	54"	44"	5"	3"
3/28/02	<u> </u>	3X3X7/16		2-1/8#	3/4"#	2-1/2X 2-1/2X 2-1/2X1/4	1.	7	9	60"	50"	9"	4"
	60"	3X3X7/16 3X3X7/16	 	2-1/8#	3/4"#	2-1/2X 2-1/2X 2-1/2X1/4	1.0	8	10	66"	56	11"	6"
REVISED:	66"	 	5X3X1/4	2-3/16#	1"ø	3X3X3/8		9	11	73"	62*	15"	7"
~		4X4X5/8	 	2-3/16#	1"ø	3x3x3/8	<u> </u>		11	79"	68*	17"	9"
	78"	4X4X5/8		2-3/16#	 	3X3X3/8	 	- 	13	86"	74*	21"	10"
	84 " 	4X4X5/8	<u> </u>	 	 	3x3x3/8			13	92"	80"	23"	12"
ļ	90"	4X4X5/8	5X3X1/4	2-3/16#	 		<u> </u>		14	98"	86"	29"	12"
,	96"	4X4X5/8	5X3X1/4	2-3/16#	1"#	3X3X3/8	1-1/4"	14	'7]			

*NOTE: Adjust these values for skewed conduits. Provide 5" maximum opening at each side and between bars.

4X4X5/8 | 5X3X1/4 |

96"

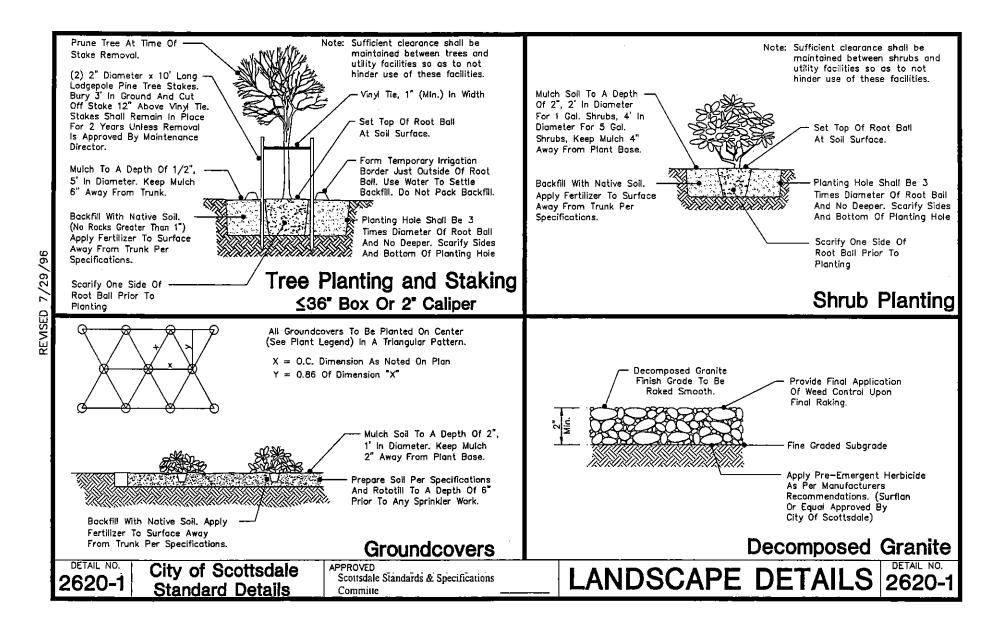
BARRIER SPECIFICATIONS SCHEDULE 2562-2 APPROVED BY: City of Scottsdale Standard Details

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Ï	Size	Height	Width	Ä	Name	Size	위	<u>ق ا</u>	Name		_	エ 5	3	0.75	VELVET\ ARIZONA (M)	15	5.5	3	0.5	SONORAN	15	6		0.75
ame	ဟ	프	-		ACACIA (Cont.)			\perp		TINE MESQUITE	15 24	8	5	1.25	(PROSOPIS VELUNTINA)	24	7	4	_1_	(CERCIDIUM PRAECOX)	24	7	6	1.5
CACIA	15	6	2	0.75		15	_	2 0.7	_	SOPIS ALBA)	30	9	7	1.5	(-11100-1111)	30	9	6	1.5		30	8	-	2.5
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CACIA SALIGNA)	_	10	5	2		30	9	5 2	_		-	-	11	2.5		42	12	10	2.5]	42	11	10	
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(I) (ACACIA BERLANDIERI)	30		5	1.5	(ACACIA SALICINA)	30	10	5		N MESQUITE	15	_	4	1.5	(CERCIDIUM FLORIDUM)	24	7.5	4	1.5		30	+	-	2
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	15	-	2	0.75	<u></u>						36	_	-	2.5	1	36	10	8	2.5	_	42	_		-
<u>MULGA</u>	24	_	4	1.5	IRONWOOD				{		42		_	_	1	42	12	9	3		40	+-'-	 '^	╫
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	36	_		+-		24	6	_	25	WATEROUTE (M)	15	-	3		BLUE PALO VERDE (M)	15		_	_		24	-	—	_
	15	_	2.5		- †'	30		<u> </u>	_	AN MESQUITE (M)	24		_	-	(CERCIDIUM FLORIDUM)	24	_	_	-	(RHUS LANCEA)	30	+	+-	
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(ACACIA STENOPHYLLA)	30	_	_	$\overline{}$		42	_		3		3			┿	1	36	_	_	_		42			_
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Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper
ARIZONA ASH	15		2		Canary Island Pine	15	6	2	0.75	COOLIBAH	15	7	3	0.75	FEATHER BUSH	15	-	3	0.75	JACARANDA	15	8	2	0.75
(FRAXINUS VELUTINA)	24	10	4		(Pinus Canariensis)	24	9	4	2	(EUCALYPTUS -	24	10	4	1.5	FERN OF THE DESERT	24	6.5	4	1.25	(JACARANDA ACUTIFOLIA)	24	9	4	1,5
	30	12	5	2		30	13	5	3.5	MICROTHECA)	30	12	5	2	(LYSILOMA THORNBERI)	30	7	6.5	2		30	12	5	2.5
1	36	14	8	2.5	•	36	17	5	4		36	15	6	2.5	_	36	В	6	2.5	}	36	14	8	3
i	42	15	9	3		42	18	6	4.5	CORK DAK	15	4	2	0,75	FEATHER BUSH\ FERN	15		3	0.75		42	16	8	3.5
i '	48	16	10	3.5		48	22	7	5,5	(QUERCUS SUBER)	24	6.5	3	1.5	OF THE DESERT(M)	24	5	5	1	l	48	18	9	4
ARIZONA SYCAMORE	15	7	2	1	CAROB	15	8	2	0.75	1	30	9	4.5	2.5	(LYSILOMA THORNBERI)	30	7	7	1.5	JACARANDA (M)	15	5.5	3	0.5
(PLATANUS WRIGHTII)	24	9	4	1,5	(CERATONIA SILQUA)	24	9	4	1.5	1	36	12	6	3.5	l	36	8	8	2	(JACARANDA-	24	8	5	0.75
<u> </u>	30	13	6	2.5	,	30	10	5	2	1	42	14	9	4	FICUS	15	8	2	0.75	ACUTIFOLIA)	30	10	6	1.5
1	36	16	8	3,5		36	12	5	3		48	16	11	4.5	(FICUS NITIDA)	24	9	4	1,5		36	12	7	2
ARIZONA SYCAMORE(M)	15	6	3	0.5	CHASTE TREE	15	5	3	0.75	CORRAL GUM	15	6	2.5	0.75		30	10	5	2	LEMON BOTTLE BRUSH	15	8_	2	0.75
(PLATANUS WRIGHTII)	24	8	4	1	(VITEX ANGUS-CASTUS)	24	6	4	1.25	(EUCALYPTUS TORQUATA)	24	8	3.5	1.25		36	12	6	3	(CALLISTEMON CITRINUS)	24	9	4	1.25
	30	12	7	2		30	7	5	2	DESERT WILLOW	15	6	2	0.75	FICUS	15	5.5	3	0.5		30	10	5	2
•	36	15	9	3		36	В	6	2.5	(CHILOPSIS LINEARIS)	24	7	4	1.25	(FICUS NITIDA M)	24	В	4	11		36	12	6	2.75
AUSTRALIAN WILLOW\	15	5	3	0.75	CHINESE EVERGREEN	15	7	2	0.75		30	9	6	1.75		30	10	6	2	MEDITERANEAN FAN	15	2	2	N/A
WILGA	24	6	4	1.25	<u>ELM</u>	24	8	3	1.25		36	10	В	2.25		36	12	8	2.5	PALM	24	3	3	-NV
(GEIJERA PARVIFLORA)	30	10	5	2	(ULMUS PARVIFOLIA)	30	12	6	2	DESERT WILLOW (M)	15	5	3	0.75	FLOODED GUM	15	8	3	_ 1_	(CHAMAEROPS HUMULIS)	30	4	4	N/A
	36	12	5.5	2.5	•	36	14	8	2.5	(CHILOPSIS LINEARIS)	24	7	5	1	(EUCALYPTUS RUDIS)	24	10	4	1.5		36	5	5	NVA
BOTTLE TREE	15	6	2	1.5		42	16	9	3.5		30	9	6	1.5	FLOWERING CHERRY	15	6	2,5	0.75	MESCAL BEAN TEXAS	15	3	1	0.75
(BRACHYCHITON -	24	9	4	2.5		48	18	10	3.75	Ī <u></u>	36	10	8	2	(PRUNUS VARIETIES)	24	9 -	4	1.25	MOUNTAIN LAUREL	24	4	2	1_1_
POPULNEUS)	30	12	5	4	CHINESE PISTACHE	15	7	2	0.75	<u>ELDARICA</u>	15	6	2	1,5		30	11	8	2	(SOPHORA -	30	5	3	1,75
1	36	15	6	5	(PISTACIA CHINENSIS)	24	9	4	1.5	(PINUS ELDARICA)	24	10	4	2		36	13	10	2. 5	SECUNDIFLORA)	36	6	4	2
1	42	17	8	6		30	10	5	2.5		30	13	4	3		42	_	11	3	MESCAL BEAN TEXAS	15	3	2	0.75
1	48	20	9	6.5		36	12	6	3.5		36	15	5	4		48	-	12	3,5	MOUNTAIN LAUREL (M)	24	4	3	1_1_
BRAZILIAN PEPPER	15	8	2	0,75	CHIR PINE\ INDIAN	15	5	3	1		42	18	7	4.5	HONEY LOCUST	15		2	0.75	(SOPHORA -	30	5	4	1.5
(SCHINUS -	24	9	4	1.25	LONG LEAF	24	8	4	2		48	_	9	_	(GLEDITSIA TRIACANTHOS	24	_	4	1.5	SECUNDIFLORA)	36	6	5	2
TEREBINTHIFOLLA)	30	10	5	2.5	(PINUS ROXBURGHII)	30	11	6	25	EVERGREEN PEAR	15		2	0.75	INERMIS)	30	_	6	2	MEXICAN PALO VERDE	15	7	3	1-1-
l	36	12	8	3] .	36	15	6.5	3.5	(PYRUS KAWAKAMI)	24		4	1.5		36		8	2.5	<u>JERUSALEM</u>	24	9	6	1.5
CALIFORNIA PEPPER	15	7	2	0.75		42	17	8	4,5]	30	_	6		1	42	-	10	3	(PARKINSONIA ACULEATA)	30	11	9	2.5
(SCHINUS MOLLE)	24	В	4	1.25		48	20	9	5		36	_	-	3.5]	48	16	12	3.5	1	36	12	10	3
t	30	10	6	2.5]					_	42	-			1		1_			_	Ш		_	
1	36	12	8	3	See General Notes		<u> </u>	_		1	48	16	12	4.5	1	\perp	1				Щ	L	<u> </u>	↓ '
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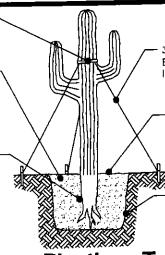
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ODESTO ASH	15	-	2	1	RAYWOOD ASHI	15	В	4	1	SILK TREE MIMOSA (M)	15	5	3.5	0.5	_		24	8	4	1.5			\neg	
RAXINUS V MODESTO)	24	10	4	1.5	CLARET ASH	24	10	3	1.5	(ALBIZIA JULIBRISSIA)	\rightarrow	6.5	5	0.75	HALL	BISIA JULIBRISSIN)	30	10	÷	2	-		\top	
POCCINOS V INCIDES (O)	30	12	6	2	(FRAXINUS O RAYWOODII) [30	12	5	2		30	6	6	1	-{	l	36	12		-			\top	
	36	14	7	2.5	1	36		-	2.5			10	8	2.5	TE.	XAS EBONY (M)	15	4	-	+				
·	42	16	8	3	1	42	16	+	+	SILVER DOLLAR GUM	15 24	7	4	1.5		THECELLUBIUM-	24	6		1	7		\Box	
	48	17	10	3,5	Ī <u></u>	48	_	-		(EUCALYPTUS-	24	10	-	1.3	− 1'	EXICAULE)	30	17		1.5	5			
ARROW LEAF GIMLET	15	6	2.5	0.7	RED CAP GUM	15		-		POLYANTHEMOS)	15	7	3	0.75	_	DIOROCE)	36	9	8	2	<u> </u>		_	
WAMP MALLET	24	8	3	1	(EUCALYPTUS-	24	1 8	4	1.25		24	10	4	1.25			42	10	10	2.5	5		_	
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PATHULATA)	\Box	_			RED GUM	15	_	_		_	36	-	-	3	_	EEPING BOTTLE	15	8	2	0.7	75			
LEANDER	15	7	2	0.7	EUCALYPTUS-	2	1 1	<u> 4</u>	1.75		15	6	2	0.79	-	RUSH	24	10	3.	5 1.5	5		\dashv	
NERIUM OLEANDER)	24	9	4	1.2	5 CAMALDULENSIS)	-	+		-	SOUTHERN LIVE OAK	24	9	4	1.25		ALLISTEMON VIMINALIS)	30	12			2		\rightarrow	
	30	10	5	2	RED IRON BARK	1					30	-	-	-	-1	,	36		1 7	2.	5	\Box	_	ᆚ-
	36	12	6	2.	(EUCALYPTUS -	2.	4 1	0 4	1.5	(QUERCUS VIRGINIANA)	36	13	8	_		EEPING WILLOW	15	8	2	1		\sqcup	\dashv	-
DLIVE TREE	15	5	3	0.			+		+_=	. 	42	-	+-	+-		ALIX BABYLONICA)	24	- 10	3 4	1.	.5		<u></u> -	
OLEA EUROPAEA)	24	8	5.5	1.	RIO GRANDE\ FAN		5			-	48	_	+	+ -	—1`	,	30	_	2 6	2.	.5		\vdash	_+
	30	11	9	2	TEXAS ASH	2		o	$\overline{}$		15	5		-	_		36	1	4 8	4	4	<u> </u>	igspace	_
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ORCHID TREE	15	8	2	0				6 1	_	4	42	_	_		_	ELLOW OLEANDER	15	1	; <u> </u>	2 0	1.5	<u> </u>	\sqcup	
(BAUHINIA)	24	9	4	1.	5 SHAMEL\ EVERGREE		٠.	8 2		<u>-</u> -	48	11		+		HEVETIA PERUVIANA)	24	1 6	3 7	1 1.	.25	 	┶┵	
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ORNAMENTAL PEAR	15	7	T	2		_	-	_	3 3	⊣	}	┿	-}-	╁	⊢՝՝	,	Г	1	7	$\neg \vdash$			$oxed{oxed}$	
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	36	3 1	4 {	3 :	SILK OAK			-+	3 1	4 4 7 4 2 2 2 2 2 2	all ba	A111	rani	hoo	for r	one year from the da	te c	f ac	сер	tanc	e			
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Gorden Hose Reinforced With Wire (Metal).

Use Golf Sand Or 1/4" Minus Decomposed Granite To Backfill Planting Hole. Backfill 1/2 Of Pit, Then Compact.

Root Prune All Shredded Or Damaged Roots And Dust Entire Root Structure With Wettable Sulphur (1.5 Min.) And Streptomiacin Spray At Planting Site. Root Ball Minimum Size Shall Be 24" With A Minimum Root Length Of 6" On All Sides.



3 Tree Braces, Spaced Equally. Braces To Remain In Place For One Year Min.

6 - 1 Gallon Emitters In 'Hula Hoop' Distribution, Run Once A Month 24 To 48 Hours For One Year.

Planting Hole Width Shall Be 3 Times Diameter Of Roots And No Deeper Than The Extension Of The Roots.

NOTES:

- 1. Optimum transplanting season is October thru November.
- 2. Maintain original plant orientation. The original "North" orientation shall be marked on a rib at a height of 5' above around level.
- 3. Water thoroughly at the time of transplanting to remove air pockets and assure proper compaction Backfill shall be free of injurious rocks and debris.
- 4. Do not water for 3 weeks after planting.
- 5. Plant in areas safe from present and future construction activities.
- 6. Transplant to original depth of bury.

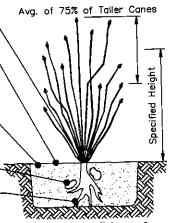
Plant At Depth Which -Plant Was Grown.

Planting Mix To Be 1/3 -Golf Sand And 2/3 Specified Soil Pack The Backfill Mix. Do Not Use Water To Settle Backfill Mix.

Planting Hole Width Shall-Be 3 Times Diameter Of Roots And No Deeper Than The Extension Of The Roots.

Use 6" to 8" Rocks To Anchor Roots.

Root Prune All Shredded Or Damaged Roots And Dust Entire Root Structure With Wettable Sulphur (1.5 min.) At Planting Site.



NOTE: Water weekly through the summer.

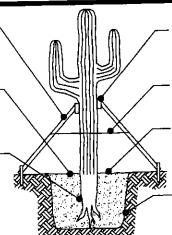
Ocotillo Planting

Saguaro Planting Type A

(3) 2"x 6" Braces, Spaced Equally And Nailed To Wooden Stakes In The Ground, Braces To Remain In Place For One Year Min.

Use Golf Sand Or 1/4" Minus -Decomposed Granite To Backfill Planting Hole. Backfill 1/2 Of Pit, Then Compact.

Root Prune All Shredded Or Damaged Roots And Dust Entire Root Structure With Wettable Sulphur (1.5 Min.) And Streptomiacin Spray At Planting Site. Root Ball Minimum Size Shall Be 24" With A Minimum Root Length Of 6" On All Sides.



4"x 8"- Dense Foam And Carpet Padded, 8' Above Natural Grade And Nailed To Brace.

Steel Band Fastened With 2 Large Staples Per Brace.

6 - 1 Gallon Emitters In 'Hula Hoop' Distribution, Run Once A Month 24 To 48 Hours For One Year.

Planting Hole Width Shall Be 3 Times Dlameter Of Roots And No Deeper Than The Extension Of The Roots.

NOTES:

- 1. Optimum transplanting season is October thru November.
- 2. Maintain original plant orientation. The original "North" orientation shall be marked on a rib at a height of 5' above ground level.
- 3. Water thoroughly at the time of transplanting to remove air pockets and assure proper compaction, Backfill shall be free of injurious rocks and debris.
- 4. Do not water for 3 weeks after planting.
- 5. Plant in areas safe from present and future construction activities.
- 6. Transplant to original depth of bury.

Plant At Depth Which -Plant Was Grown.

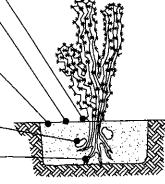
Planting Mix To Be 1/3 -Golf Sand And 2/3 Specified Soil, Pack The Backfill Mix. Do Not Use Water To Settle Backfill Mix.

Planting Hole Width Shall -Be 3 Times Diameter Of Roots And No Deeper Than The Extension Of The Roots.

Use 6" to 8" Rocks To Anchor Roots.

Root Prune All Shredded Or Damaged Roots And Dust Entire Root Structure With Wettable Sulphur (1.5 min.) At Planting Site.

NOTES: Water weekly through the summer. Maintain original arowing orientation.



Cactus Planting DETAIL NO.

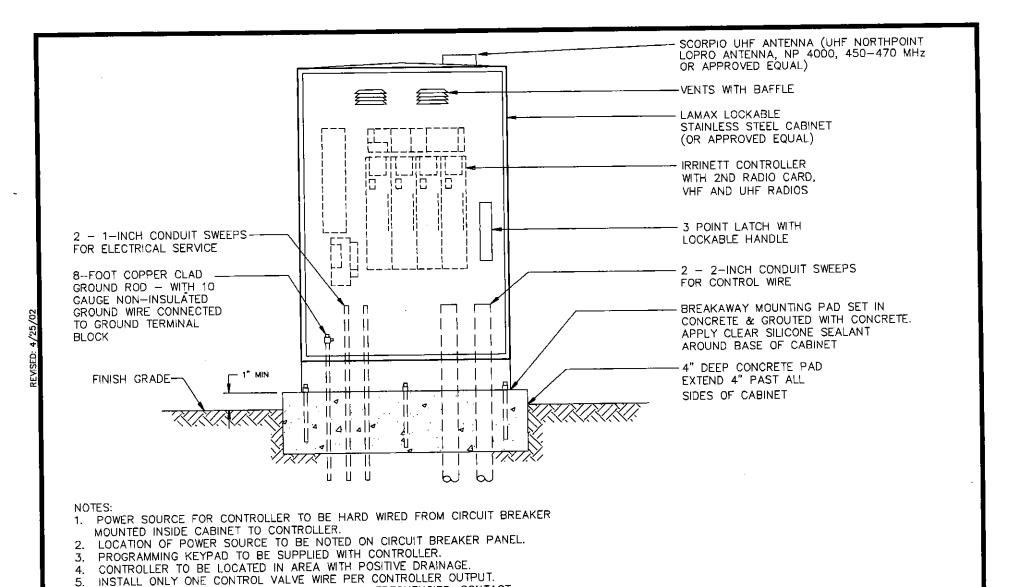
Saguaro Planting Type B

DETAIL NO.



City of Scottsdale Standard Details

LANDSCAPE DETAILS



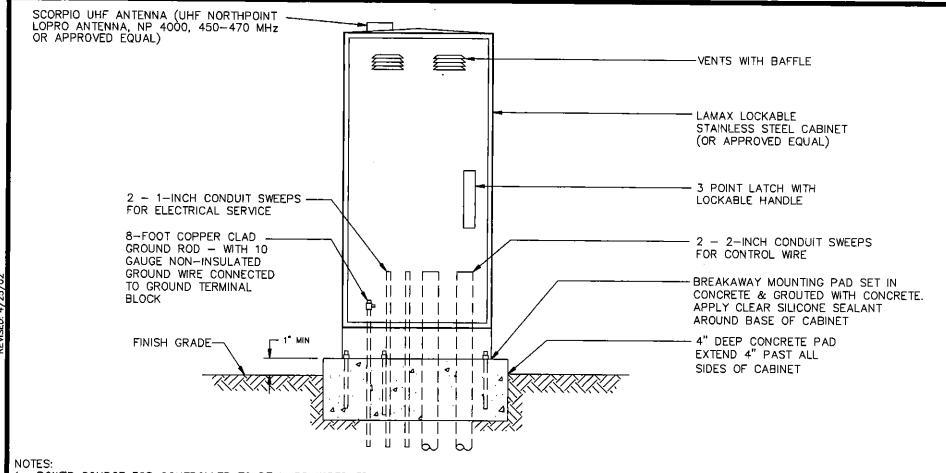
DETAIL NO. **2631** City of Scottsdale Standard Details

VHF AND UHF RADIOS TO BE TUNED TO C.O.S. FREQUENCIES. CONTACT

IRRIGATION DEPARTMENT FOR INFORMATION (480-312-2189)

IRRINET PEDESTAL MOUNTED CONTROLLER

DETAIL NO. **2631**



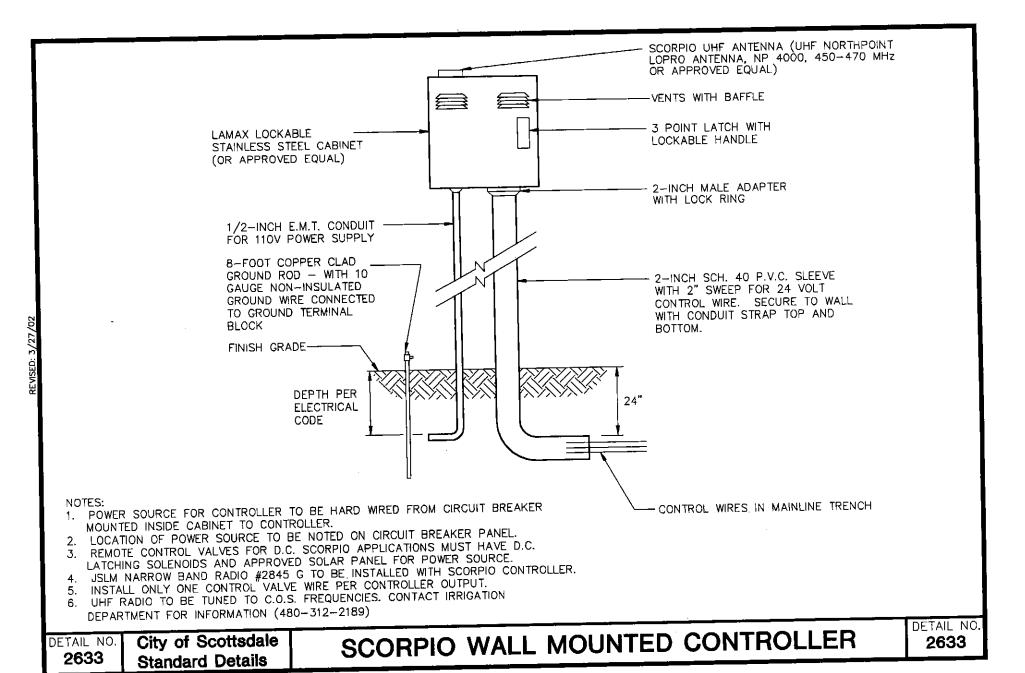
- 1. POWER SOURCE FOR CONTROLLER TO BE HARD WIRED FROM CIRCUIT BREAKER MOUNTED INSIDE CABINET TO CONTROLLER.
- LOCATION OF POWER SOURCE TO BE NOTED ON CIRCUIT BREAKER PANEL.
- 3. REMOTE CONTROL VALVES FOR D.C. SCORPIO APPLICATIONS MUST HAVE D.C. LATCHING SOLENOIDS AND APPROVED SOLAR PANEL FOR POWER SOURCE.
- 4. JSLM NARROW BAND RADIO # 2845 G TO BE INSTALLED WITH SCORPIO CONTROLLER.
- 5. PROGRAMMING KEYPAD TO BE SUPPLIED WITH CONTROLLER.
- 6. CONTROLLER TO BE LOCATED IN AREA WITH POSITIVE DRAINAGE.
- 7. INSTALL ONLY ONE CONTROL VALVE WIRE PER CONTROLLER OUTPUT.
- 8. UHF RADIO TO BE TUNED TO C.O.S. FREQUENCIES, CONTACT IRRIGATION DEPARTMENT FOR INFORMATION (480-312-2189)

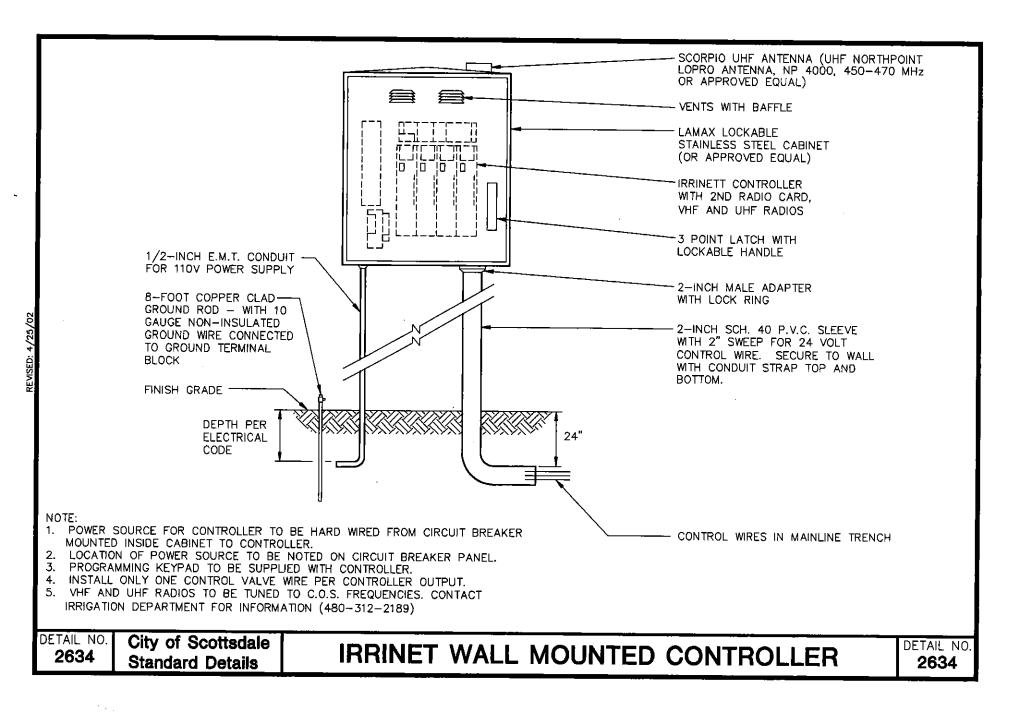
2632

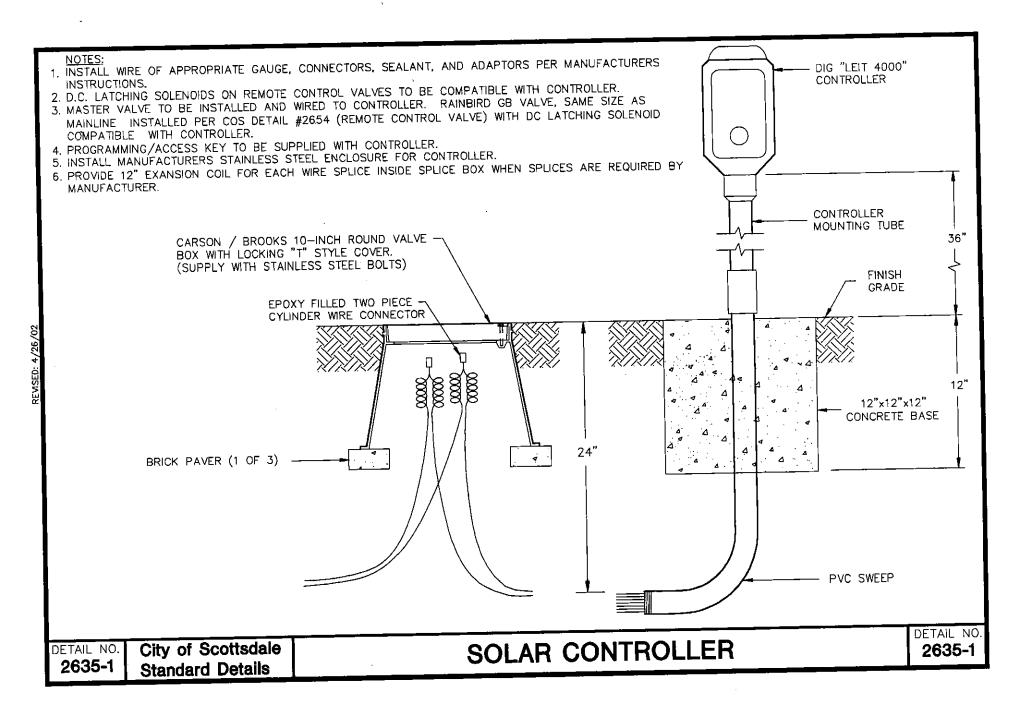
City of Scottsdale Standard Details

SCORPIO PEDESTAL MOUNTED CONTROLLER

DETAIL NO. **2632**





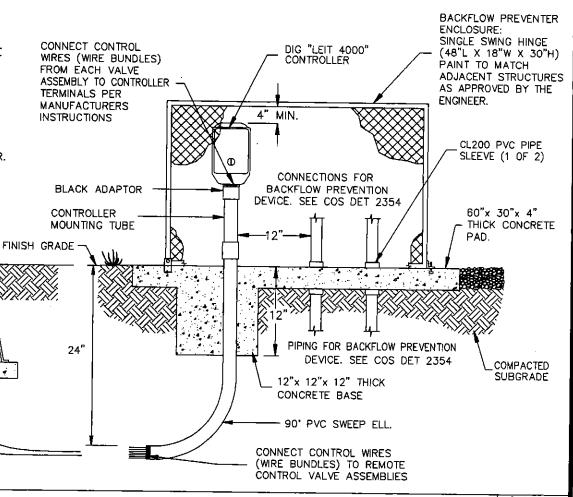


NOTES:

- INSTALL WRING OF APPROPRIATE GAUGE, CONNECTORS, SEALANT, AND ADAPTORS PER MANUFACTURERS INSTRUCTIONS.
- INSTALL CONTROL WRES, SPLICES, AND MOUNTING COLUMN AS FURNISHED/SPECIFIED BY THE CONTROLLER MANUFACTURER.
- 3. LABEL ALL WIRES IN CONTROLLER.
- D.C. LATCHING SOLENOIDS ON REMOTE CONTROL VALVES TO BE COMPATIBLE WITH CONTROLLER.
- MASTER VALVE TO BE INSTALLED AND WIRED TO CONTROLLER. RAINBIRD GB VALVE, SAME SIZE AS MAINLINE INSTALLED PER COS DETAIL #2654 (REMOTE CONTROL VALVE) WITH DC LATCHING SOLENOID COMPATIBLE WITH CONTROLLER.
- REFER TO COS DET 2354 FOR ADDITIONAL BACKFLOW PREVENTION DEVICE DETAILS.
- 7. PROGRAMMING/ACCESS KEY TO BE PROVIDED WITH CONTROLLER.

CARSON / BROOKS 10-INCH ROUND VALVE BOX WITH LOCKING "T" STYLE COVER (SUPPLY WITH STAINLESS STEEL BOLTS)

8. PROVIDE, 12" EXANSION COIL FOR EACH WIRE SPLICE INSIDE SPLICE BOX WHEN SPLICES ARE REQUIRED BY MANUFACTURER.



DETAIL NO.

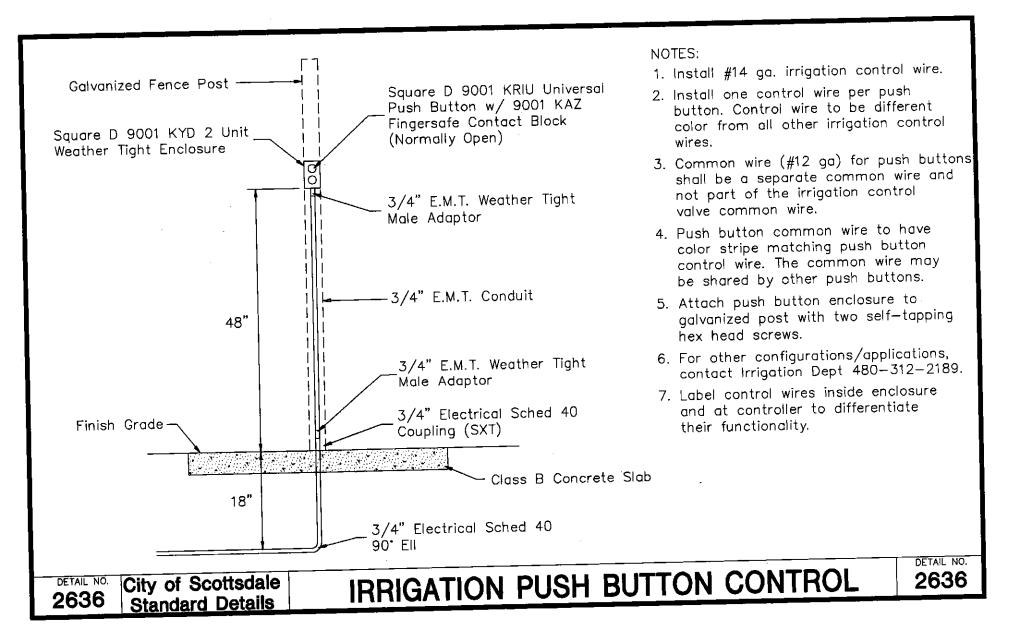
City of Scottsdale Standard Details

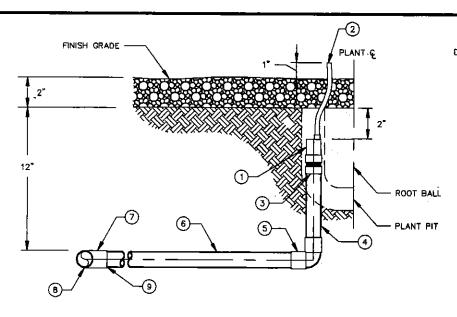
EPOXY FILLED TWO PIECE — CYLINDER WIRE CONNECTOR

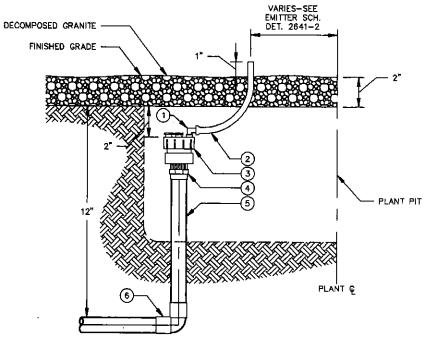
BRICK PAVER (1 OF 3)

SOLAR CONTROLLER AND BACKFLOW PREVENTER ENCLOSURE

2635-2







SINGLE OUTLET EMITTER ALL SHRUBS & GROUND COVER

SCALE: NT

LIST OF MATERIALS

- BOWSMITH SL SERIES SINGLE PORT
 EMITTER OR APPROVED EQUAL LOCATE ON
 UPHILL SIDE OF PLANT CENTERLINE
- (2) 1/4" POLY FLEX HOSE EMITTER TUBING
- (3) 1/2" PVC SCH 40 MALE ADAPTOR
- 4 AG. PRODUCTS 1/2" I.P.S. FLEXIBLE VINYL PVC PIPE OR APPROVED EQUAL
- (5) 1/2" PVC SCH 40 90" ELBOW
- 6 1/2" PVC CL 315 PIPE
- 7) 1/2" PVC SCH 40 FITTING
- 8 PVC CL 315 FOR 1/2" LATERALS, PVC CL 200 FOR LATERALS GREATER THAN 1/2"
- (9) INSTALL BUSHING AS REQUIRED.

NOTES

- PIPE CEMENT & PRIMER SHALL BE AS SPECIFIED BY MANUFACTURER FOR FLEXIBLE AND RIGID PIPE CONNECTIONS.
- EMITTER TUBING EMISSION POINTS SHALL BE EQUALLY SPACED AND LOCATED TO DIRECT WATER FLOW TO THE PERIMETER OF THE DRIP LINE.
- NUMBER OF OPENINGS AND EMITTER TUBES REQUIRED IS BASED ON PLANT SIZE. (SEE COS STD. DET. 2641-2)
- 4. MAXIMUM EMITTER TUBING LENGTH = 36".

MULTI-OUTLET EMITTER TREES ONLY

SCALE: NTS

LIST OF MATERIALS

- (1) SWIVEL OUTLET 90" ELBOW
- (2) 1/4" POLY FLEX HOSE EMITTER TUBING
- BOWSMITH ML 200 SERIES MULTI-PORT EMITTER OR APPROVED EQUAL: LOCATE ON UPHILL SIDE OF PLANT &
- (4) 1/2" PVC SCH 40 MALE ADAPTER
- AG. PRODUCTS 1/2" I.P.S. FLEXIBLE VINYL PVC PIPE OR APPROVED EQUAL
- (6) 1/2" PVC SCH 40 FITTING

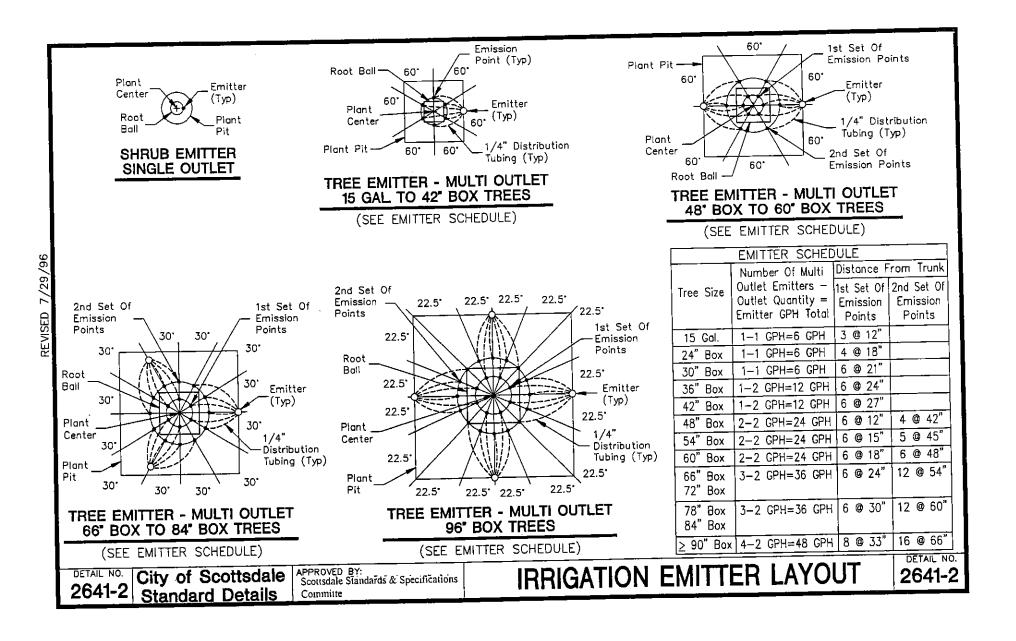
DETAIL NO. **2641-1**

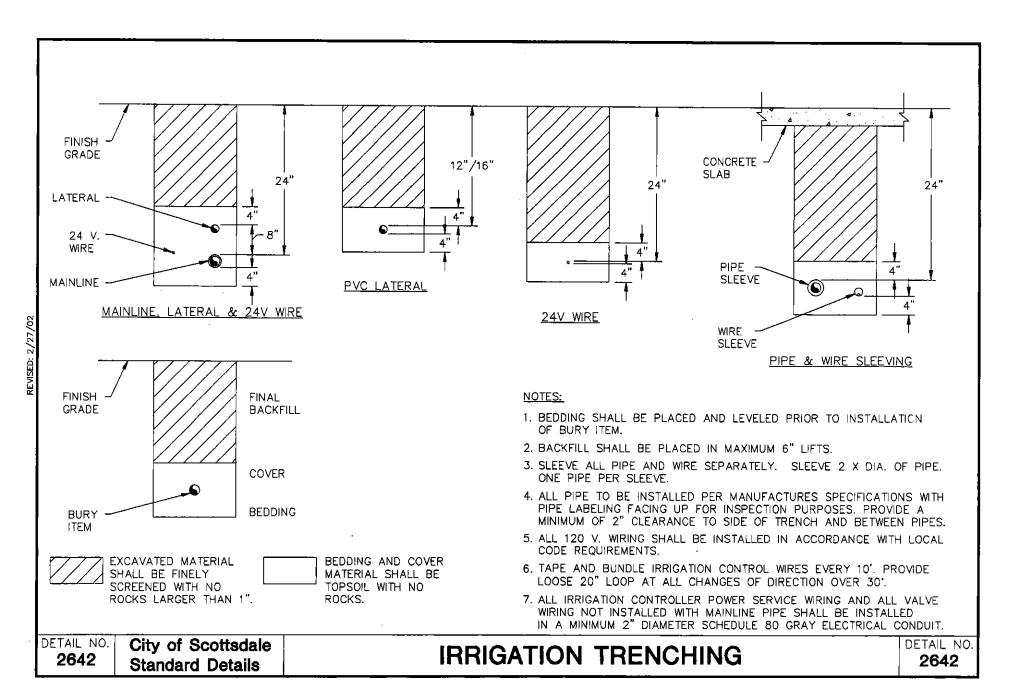
City of Scottsdale Standard Details

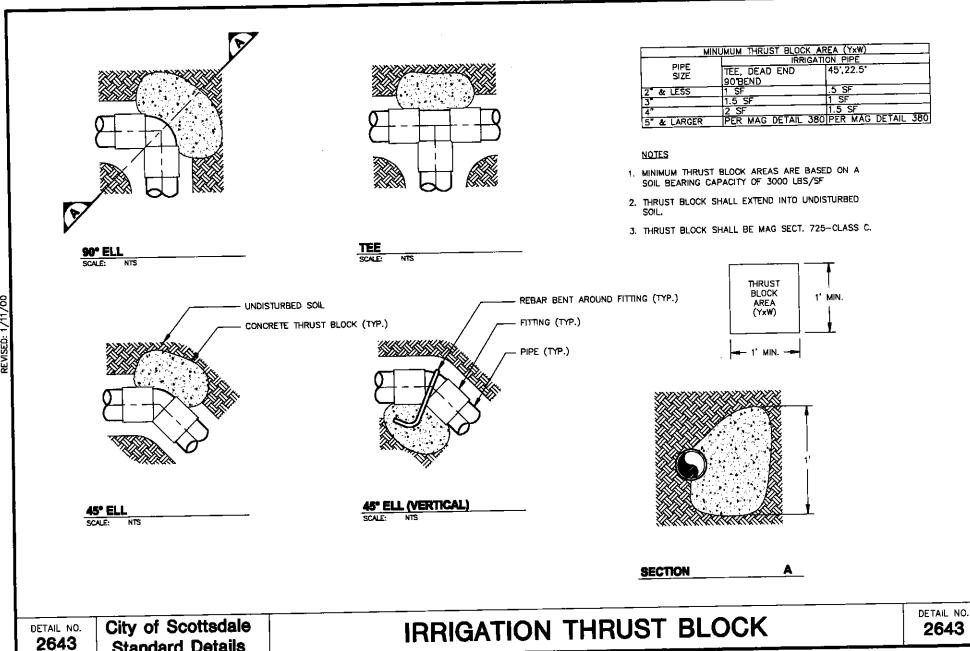
SINGLE & MULTI-OUTLET EMITTERS

DETAIL NO.

2641-1



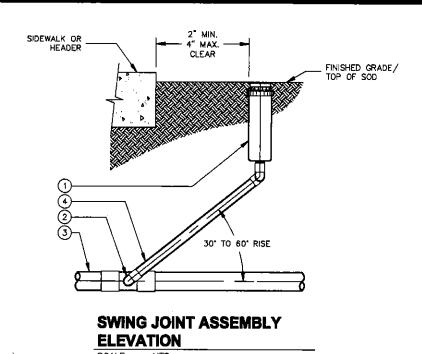




City of Scottsdale Standard Details

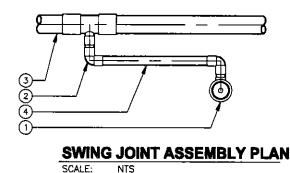
IRRIGATION THRUST BLOCK

2643



LIST OF MATERIALS

- (1) ROTOR SPRINKLER HEAD
- 2) STREET ELL (1 OF 3) SCH 40 PVC
- (3) PVC LATERAL PIPE
- (4) SCH 80 NIPPLE TBE



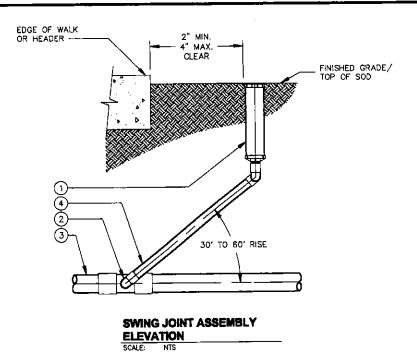
NOTES

- 1. SWING JOINT TO BE THE SAME SIZE AS SPRINKLER HEAD INLET.
- 2. NO PRE-FAB SWING JOINTS
- 3. NO MARLEX FITTINGS

DETAIL NO. **2644**

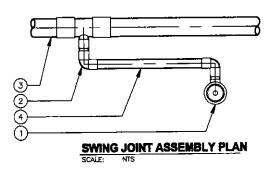
City of Scottsdale Standard Details

ROTOR SPRINKLER ASSEMBLY



LIST OF MATERIALS

- 1 4" POP-UP SPRAY SPRINKLER HEAD
- (2) STREET ELL (1 OF 3) SCH 40 PVC
- (3) PVC LATERAL PIPE
- (4) SCH 80 NIPPLE TBE



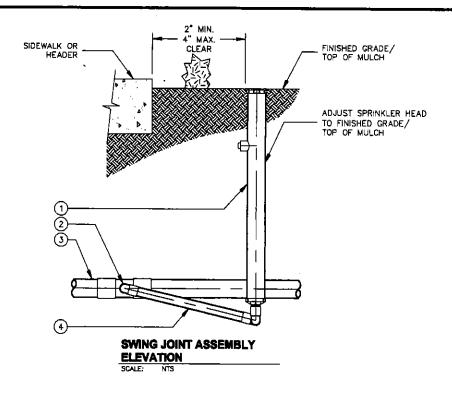
NOTES

- 1. SWING JOINT TO BE THE SAME SIZE AS SPRINKLER HEAD INLET.
- 2. NO PRE-FAB SWING JOINTS
- 3. NO MARLEX FITTINGS

DETAIL NO. **2645**

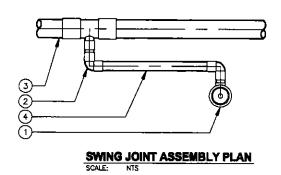
City of Scottsdale Standard Details

POP-UP SPRINKLER ASSEMBLY



LIST OF MATERIALS

- (1) 12" POP-UP SPRAY SPRINKLER HEAD
- (2) STREET ELL (1 OF 3) SCH 40 PVC
- (3) PVC LATERAL PIPE
- (4) SCH 80 NIPPLE TBE



NOTES

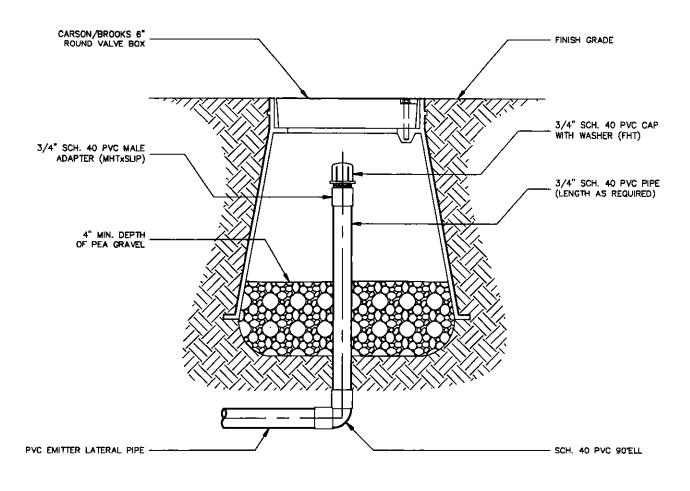
- 1. SWING JOINT TO BE THE SAME SIZE AS SPRINKLER HEAD INLET.
- 2. SWING JOINT SHALL BE CONNECTED TO BOTTOM OUTLET.
- 3. NO PRE-FAB SWING JOINTS
- 4. NO MARLEX FITTINGS

DETAIL NO. **2646**

City of Scottsdale Standard Details

SHRUB POP-UP SPRINKLER ASSEMBLY

Standard Details

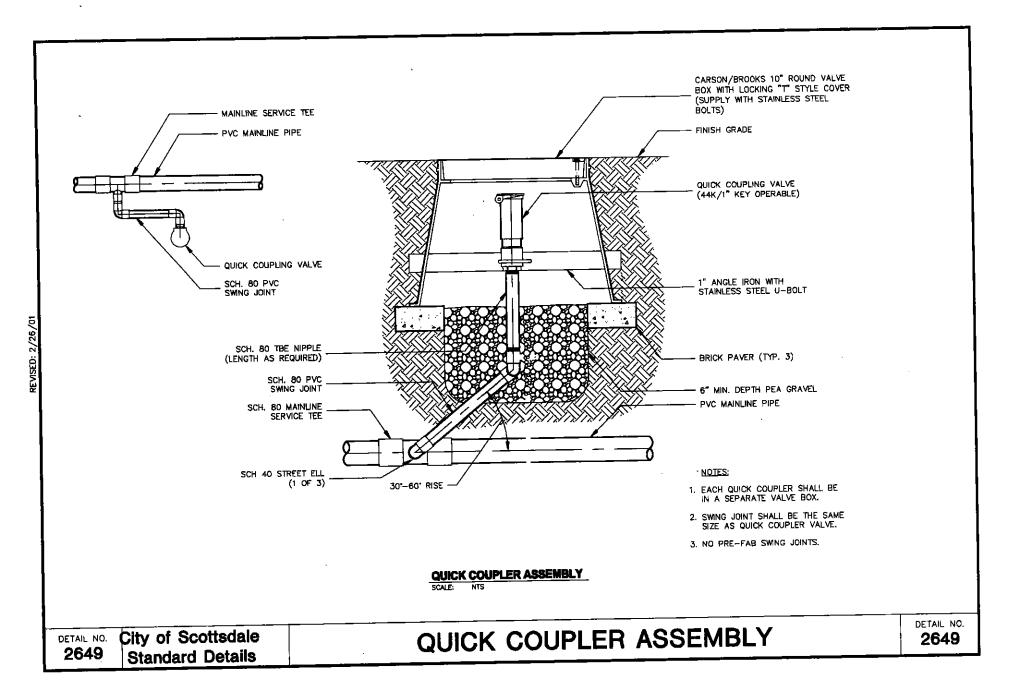


EMITTER FLUSH CAP ASSEMBLY SCALE: NTS

DETAIL NO. **2648**

City of Scottsdale Standard Details

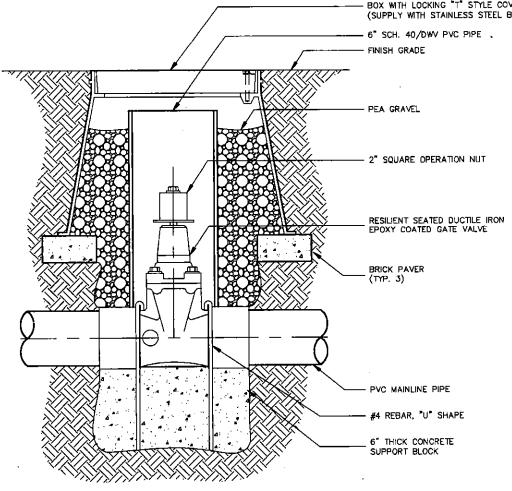
EMITTER FLUSH CAP ASSEMBLY



CARSON/BROOKS 10" ROUND VALVE BOX WITH LOCKING "T" STYLE COVER (SUPPLY WITH STAINLESS STEEL BOLTS)

NOTE:

- 1. GATE VALVE SHALL MATCH NOMINAL SIZE OF MAINLINE PIPE.
- 2. PROTECT VALVE BODY WITH 10MIL PLASTIC PRIOR TO INSTALLATION OF REBAR & SUPPORT BLOCK.

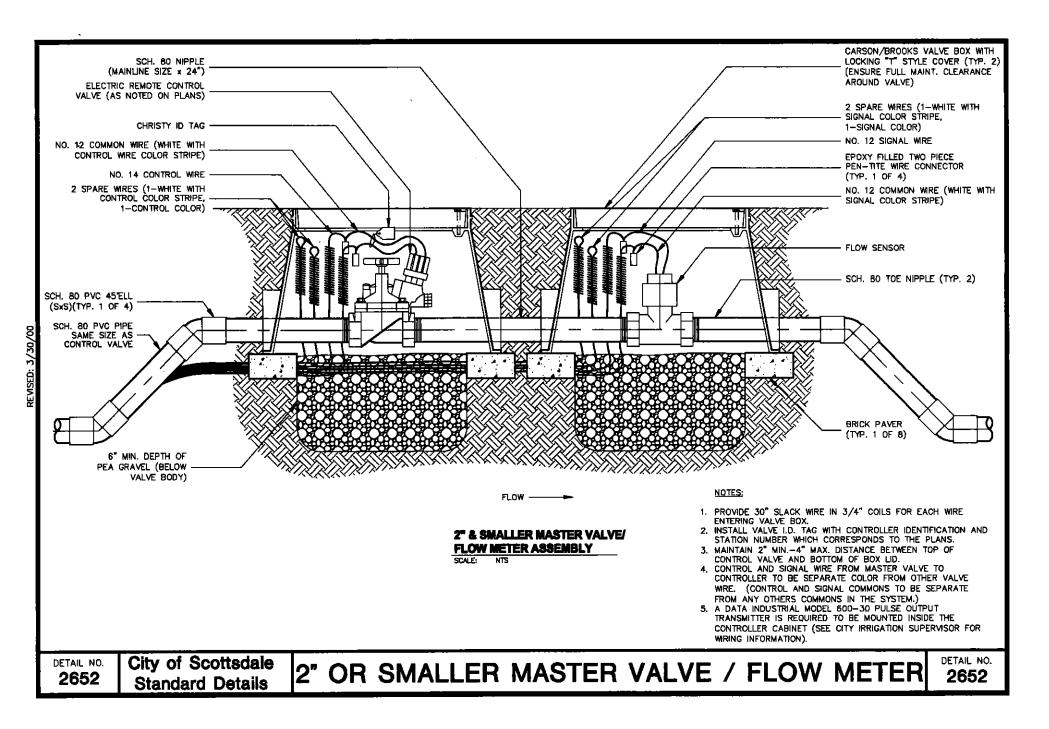


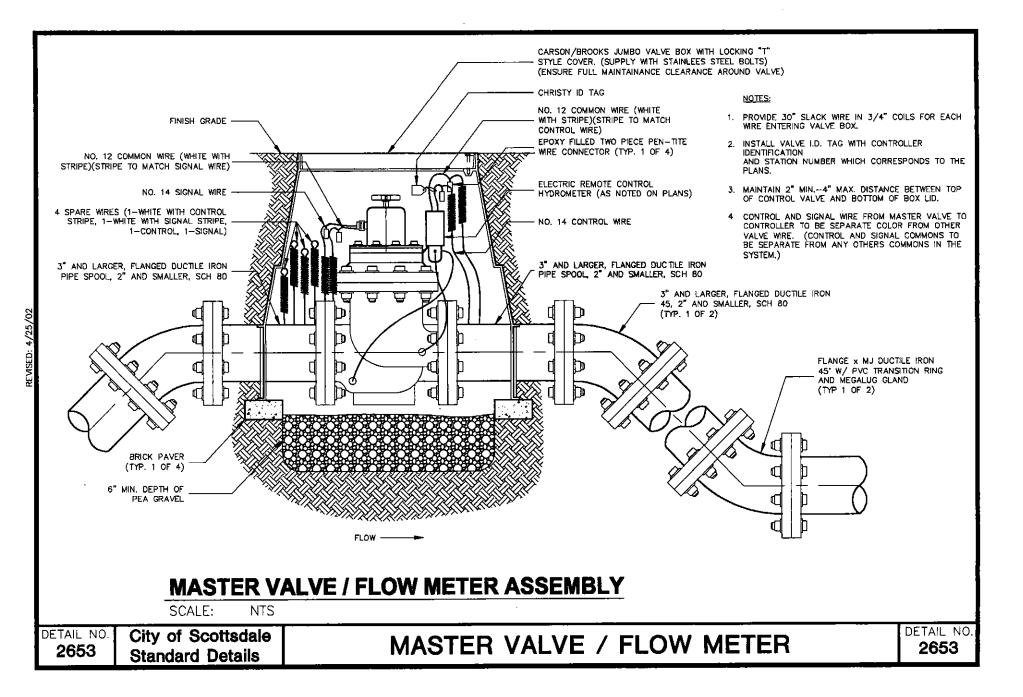
3" & LARGER MAINLINE ISOLATION **GATE VALVE ASSEMBLY**

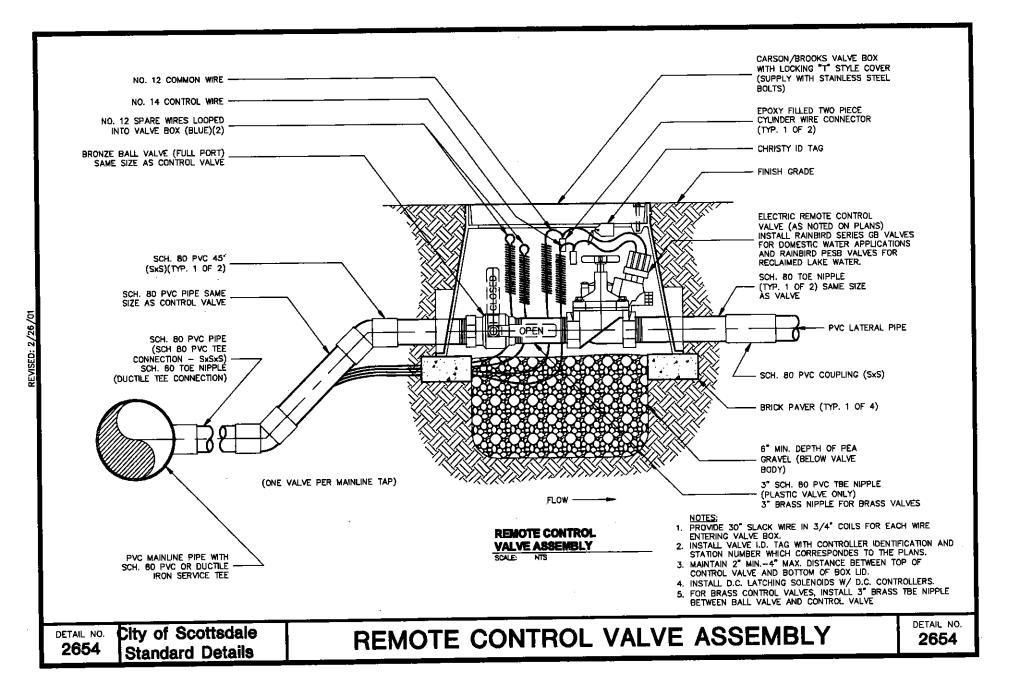
DETAIL NO. 2651

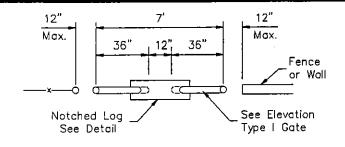
City of Scottsdale Standard Details

2" & LARGER MAINLINE ISOLATION GATE VALVE

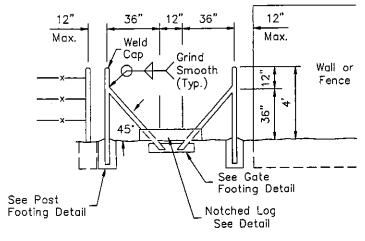








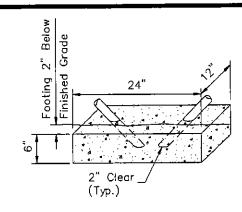
TYPE I GATE w/ NOTCHED LOG



ELEVATION
TYPE I GATE

Bevel As Shown To 12" | 12"

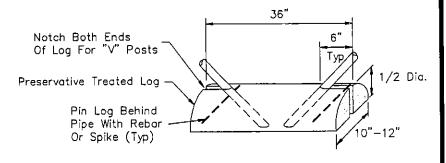
POST FOOTING DETAIL



GATE FOOTING DETAIL

NOTES:

- 1. All Concrete Shall Be Class "B".
- 2. Paint Rails Per ADOT Specifications. Color Per Plans.
- 3. Treated Wood Per MAG Section 779.



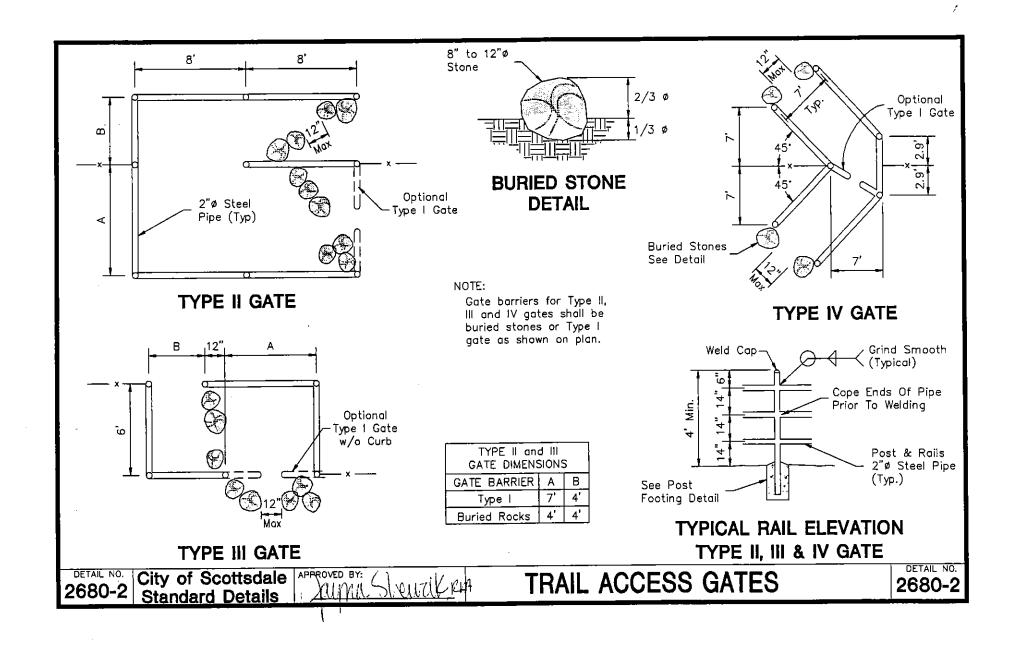
NOTCHED LOG DETAIL

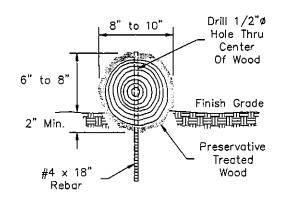
2680-1 City of Scottsdale Standard Details

APPROVED BY: YUM KRUT

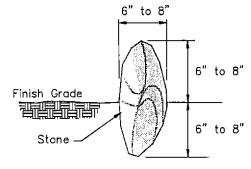
TRAIL ACCESS GATES

2680-1



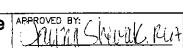


REBAR SECURED WOOD BARS



Stagger Stones To Provide A Continuous Water Bar

STONE BARS

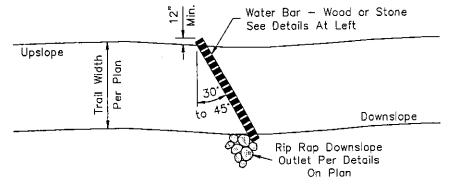


Double Wrap Wood With 9 Gauge Wire And 8" to 10" Secure To Stake to 4" 6" to 8" Finish Grade 2" Min. 2"x 2"x 18" Redwood Preservative Stake Treated Wood

WIRE SECURED WOOD BARS

NOTES:

- 1. Provide water bars at a maximum 100' interval where trail grade is equal to or greater than 6% and at all locations as shown on plans.
- 2. Treated wood per MAG Section 779.



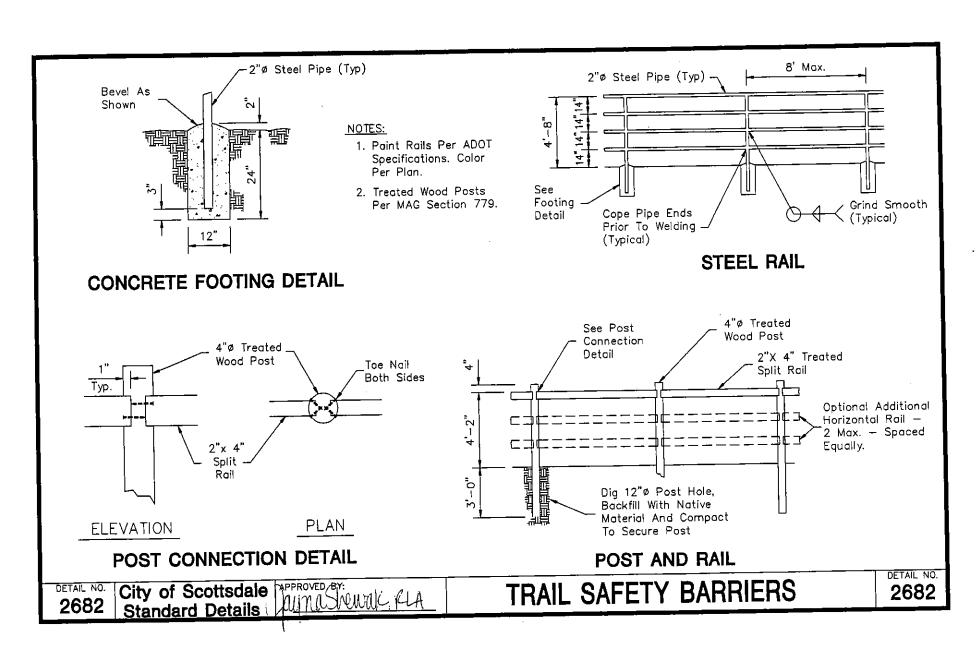
WATER BARS **PLAN**

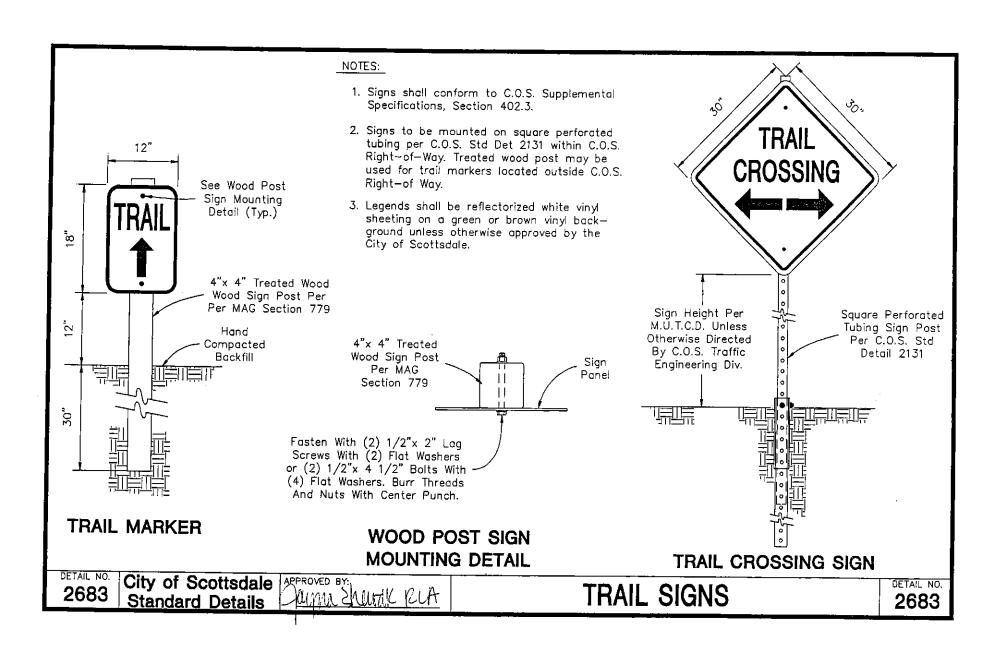
TRAIL WATER BARS

DETAIL NO. 2681

DETAIL NO.

City of Scottsdale Standard Details 2681





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