City of Scottsdale



2001

SUPPLEMENTAL
STANDARD DETAILS
FOR
PUBLIC WORKS
CONSTRUCTION

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ſ		O Series	2200 Stree	Series et Information Cont'd		O Series er Information
	2124*	eral Information Accessible Signage	2220	Curb And Gutter — Types "A" & "B"	2305-1	Butterfly Valve Operator Manhole
		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
ı	2133*	Median Nose Signing - Type A & B	2226 *	16' Median Nose Details	2330	Water Service Line Connection
Ì	2134-1*	Street Name Signs — Type A	2228	Cut—Off Wall	2332	Chlorine Injection Tap
ı	2134-2*	Street Name Signs - Type B	2230	Sidewalk Cut-Off For Utility Poles	2333	Tap For Future Chlorine Injection
	2135*	Street Name Sign Installation	2232 *	Sidewalk Ramp Retrofit	2342-1*	Pressure Reducing Valve
ı	2136*	Advance Street Name Signs	2238 *	Concrete Paver Crosswalk	2342-2*	Pressure Reducing Valve
ı	2137*	Loop Detectors	2239 *	Median Concrete Pavers	2345-1*	3", 4", 6" Water Meter
ı	_ 2138*	Signal Pole Drilling Detail	2240 *	6' Valley Gutter & Apron	2345-2*	3", 4", 6" Water Meter
ᅵᡖ	2139*	Traffic Signal Controller Cabinet Extender	2250 *	Driveway Entrances	2346 *	Temporary Construction Meter
3/28/01	2140*	Model 330 Input Rack Wiring Instructions	2255	Residential Driveways	2348 *	Air / Vacuum Release Valve
?	2141 *	Tape Color Codes for Traffic Signal Wiring	2256	Commercial/Industrial Driveways—Type CL	2349	Water Quality Sampling Station
A	2146-1	Refuse Enclosure	2257	Commercial/Industrial Driveways—Type CH	2351	Double Check Valve Backflow Prevention
REMSED	2146-2	Refuse Enclosure With Grease	2258	Commercial/Industrial Driveways—Type Cl		Assembly For Assemblies 3" Thru 10"
Æ	2140-2	Containment Area	2266-1	Mid-Block Bus Bay – Type "A"	2352	Double Check Valve Backflow Prevention Assembly For Assemblies 3/4" Thru
	2147-1	Double Refuse Enclosure	2266-2	Mid-Block Bus Bay — Type "B"	1	2 1/2"
1	2147-2	Double Refuse Enclosure With Grease	2267	Far Side Bus Bay	2353	Reduced Pressure Principle Backflow
		Containment Area	2268	Base Slab And Foundations For Bus		Prevention Assembly For Assemblies 3" Thru 10"
	2165-1	16'Sliding Gate & Hinged Door	2269	Stop Bench And Receptacles Transit Shelter Pad	2354	Reduced Pressure Principle Backflow
		16' Sliding Gate	2270*	Frame & Cover Grade Adjustment	2554	Prevention Assembly For Assemblies
		00 Series eet Information	2270	Multi-Use Path Crossing Sign		3/4" Thru 2 1/2"
	2200 *	Pavement Replacement	2282	Multi-Use Path Striping And Signing	2355	Pressure Vacuum Breaker Assembly For Assemblies 1/2" Thru 2"
	2201 *	Trench Bedding & Backfill	2283 *	Multi-Use Path Details	2356	Guard Posts For Backflow Prevention
	2202	Trench Plating	2284	Multi-Use Path Wet Crossing Sign	2000	Assemblies
	2207 * 2210	Residential Unpaved Road Grading Behind The Curb	2285	Double Bicycle Rack	NO	OTE: *-Indicates New Or Revised Details For 2001 Supplement.
	2100-	- City of Scottsdale		INDEX		2100-1

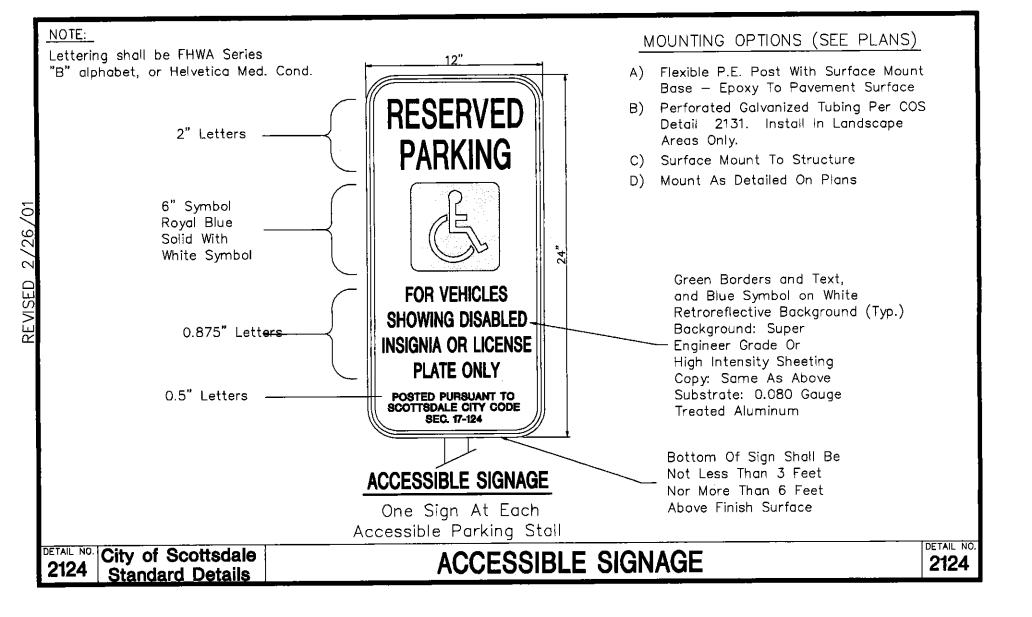
	2300 Series Vater Information Cont'd	Irri	00 Series gation & Storm		00 Series dscape Information
2357	Fill Pipe Details For Portable Tanks w/ Air Gap Separation		<u>sin Information</u>	2641-1 * 2641-2	Single & Multi-Outlet Emitters Irrigation Emitter Layout
2358	Backflow Prevention For Portable Tanks With No Air Gap Separation	2508 * 2515-1 *	Handrait Detail Wall Opening & Erosion Protection —	2642 * 2643	Irrigation Trenching Irrigation Thrust Block
2359	"N" Shaped Double Check Valve Backflow Prevention Assembly For Assemblies 3" Thru 10"	2515-2 * 2515-3 *	Type 1 Drainage Grate At Block Wall Wall Opening Erosion Protection —	2644 * 2645 * 2646 *	Rotor Sprinkler Assembly Pop-Up Sprinkler Assembly Shrub Pop-Up Sprinkler Assembly
2360	"N" Shaped Reduced Pressure Principle Backflow Prevention Assembly For Assemblies 3" Thru 10"	2535	Type 2 Catch Basin Grates	2647 * 2648 2649 *	Drip Filter & Pressure Regulator Emitter Flush Cap Assembly Quick Coupler Assembly
2361 2362	Fire Hydrant Bypass Assembly 1-1/2" - 2" Fire Line Connection	2554	Concrete Invert Paving For Corrugated Metal Pipe And Pipe Arch	2650 2651 2652	2-1/2"& Smaller Mainline Ball Valve 3"& Larger Mainline Isolation Valve 2"Or Smaller Master Valve/Flow Meter
2363	Pavement Markers For Fire Hydrants	2562-1	Storm Sewer Outfall Access Barrier	2653 * 2654 *	3"Or Larger Master Valve/Flow Meter Remote Control Valve Assembly
2364	Fire And Emergency Access And Delineation	2562-2	Barrier Specifications Schedule	2680-1 2680-2	Trail Access Gates Trail Access Gates
2365 *	Fire Lane Sign		00 Series	2681	Trail Water Bars
2365 * 2370	Vertical Realignment Of Water Mains	<u>Lar</u>	ndscape Information	2682	Trail Safety Barriers
2372	Minimum Utility Separation Requirements	2600-1 2600-2	Minimum Tree Size Requirements Minimum Tree Size Requirements	2683	Trail Signs
2398	Antenna Mast Detail	2600-3 2620-1	Minimum Tree Size Requirements Landscape Details		
	2400 Series Sanitary Sewer Information	2620-2 2620-3 2630-1	Landscape Details Landscape Details Irrigation Controller Cabinet		
2402 *	Force Main Discharge Manhole	2630-2	Irrigation Controller Cabinet		
2403 *	2—Way F.M. Cleanout, 3" & Above	2630-3 2631 *	Irrigation Controller Cabinet Irrinet Pedestal Mounted Controller		
2404 *	F.M. Cleanout W/ Sewer Release A.V.	2632 *	Scorpio Pedestal Mounted Controller		
2405 *	Sewer Air Release Valve	2633 * 2634 *	Scorpio Wall Mounted Controller Irrinet Wall Mounted Controller		
2420 *	Water Tight Concrete Sewer Manhole	2635-1 * 2635-2 *	Solar Controller Solar Controller & Backflow Enclosure		
2440 * 2460	Sewer Building Connection Monitoring/Sampling Vault	2636 *	Irrigation Push Button Control	МОТ	E: *-Indicates New Or Revised Details For 2001 Supplement.
DETAIL NO. 2100-2	City of Scottsdale		INDEX		DETAIL NO. 2100-2

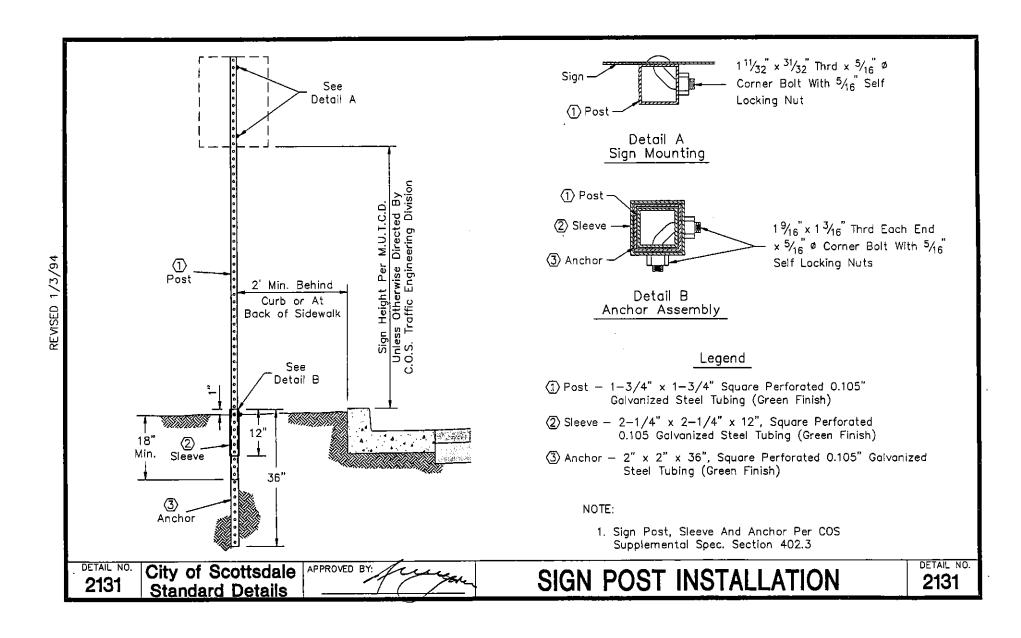
2100-2

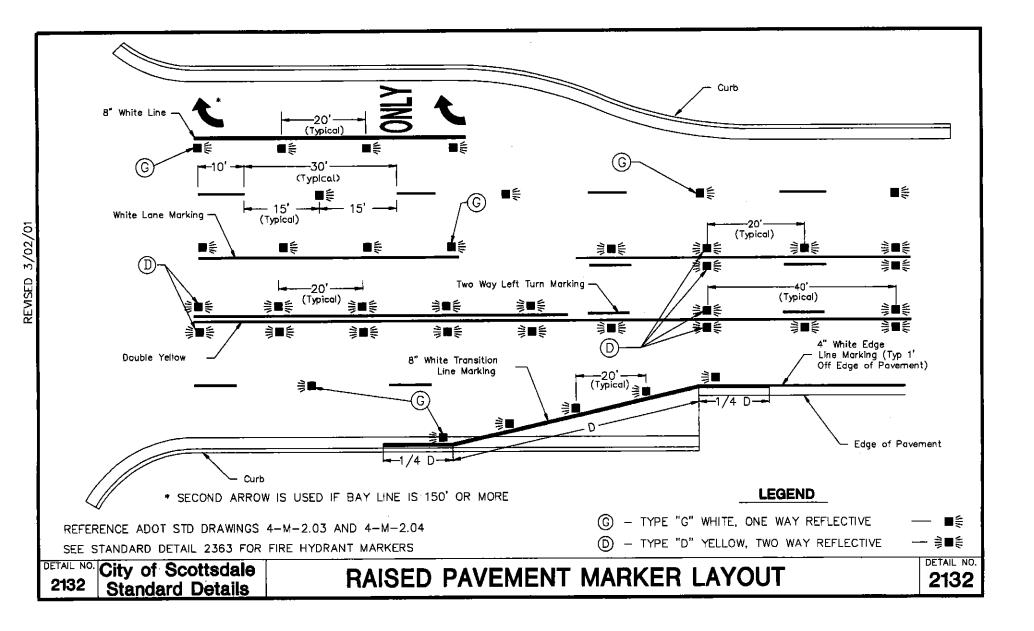
Standard Details

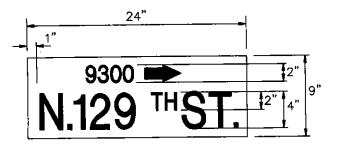
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2100-2

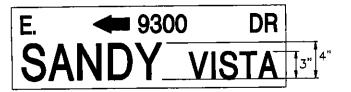










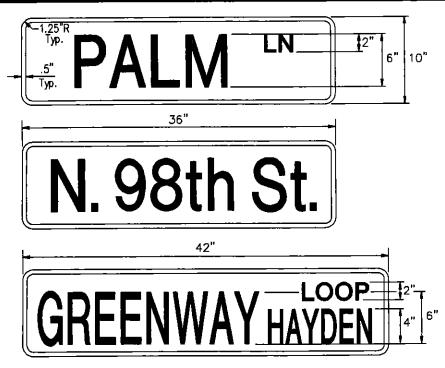


TYPE A SIGNS

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.

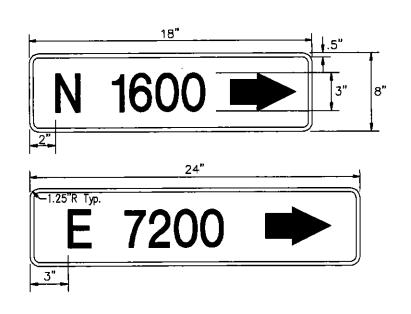


TYPE B SIGNS

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

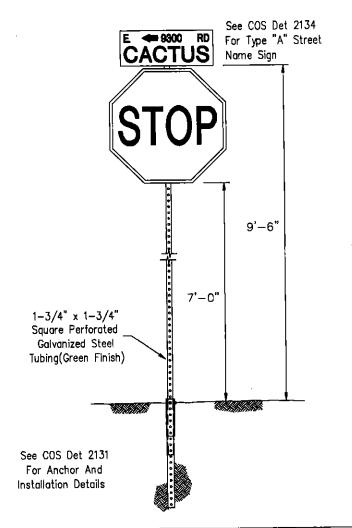
Type III High Intensity Grade Green/White (1 Side)

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



NOTES:

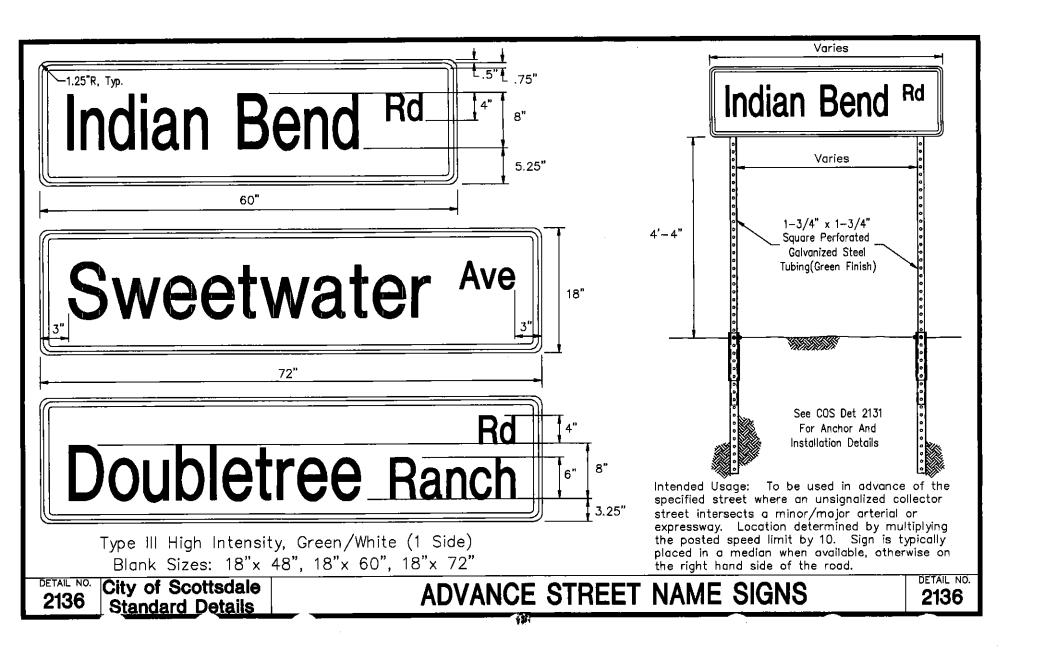
Street name sign and stop sign mounting height shall be measured from adjacent grade of sidewalk, top of curb or top of nearest pavement.

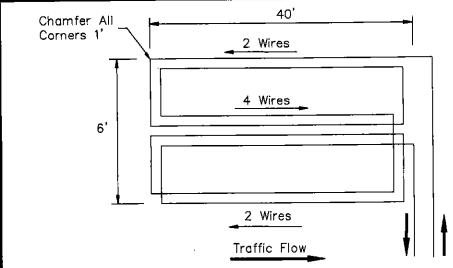
When no stop sign is required the street name sign is mounted at 9 feet 6 inches.

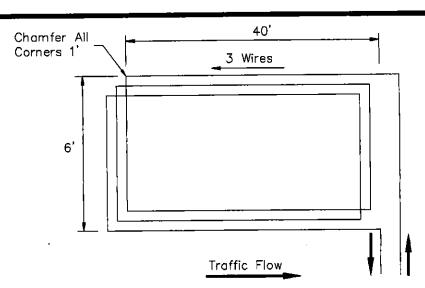
When two street name signs are mounted one on top of the other, the height is measured to the bottom sign.

DETAIL NO. **2135**

City of Scottsdale Standard Details







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).

STANDARD LOOP DETECTOR

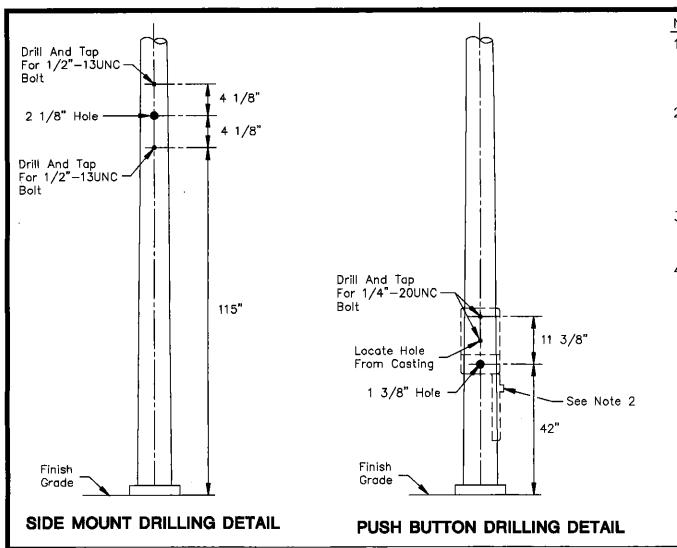
- 7. Pre-formed loop detectors conforming to the latest ADOT specifications shall be used under decorative pavement, "pavers", concrete, or other "special" roadway surfaces, or as directed by the Traffic Engineering Department.
- 8. Lead—in cable between loop wire and controller shall be latest ADOT 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.
- 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.

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City of Scottsdale Standard Details

LOOP DETECTORS

DETAIL NO.



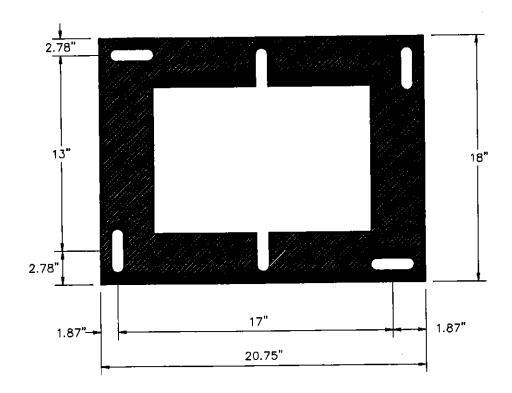
NOTES:

- 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.
- 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 1).

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City of Scottsdale Standard Details

SIGNAL POLE DRILLING DETAIL



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.

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

- 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.

City of Scottsdale Standard Details

MODEL 330 INPUT RACK WIRING INSTRUCTIONS

MAIN DIRECTIONS

Direction Color WB Blue EB Green NB Red SB Yellow

LEFT TURN DIRECTIONS (Main Color + White)

Direction	Color
WBLT	Blue + White
EBLT	Green + White
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

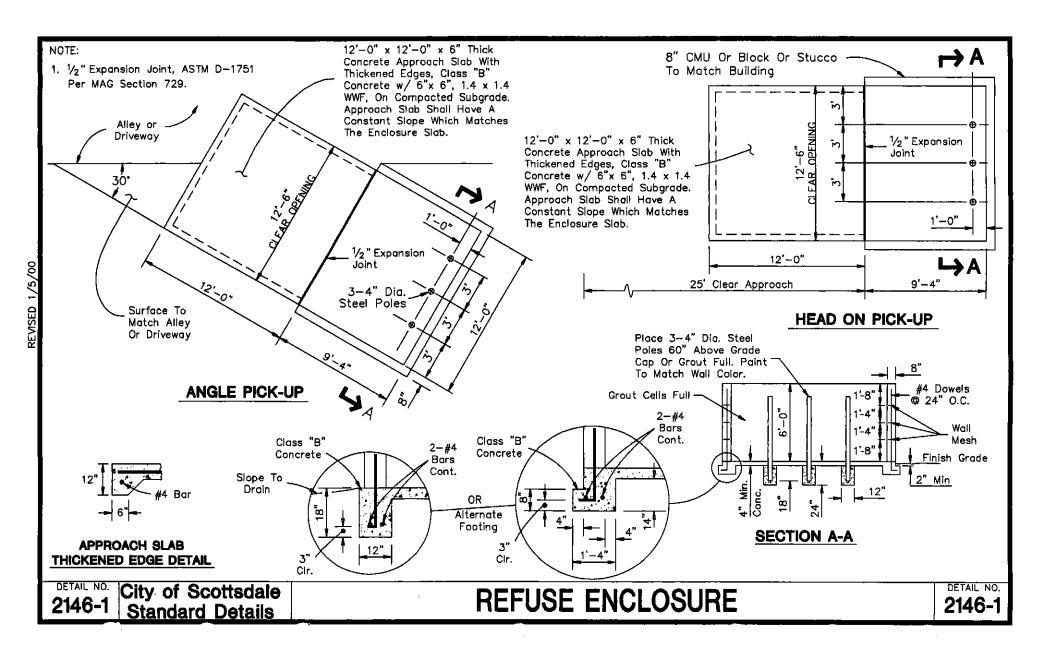
NBRT = North Bound Right Turn and shall be the phase for vehicles facing north and turning to east

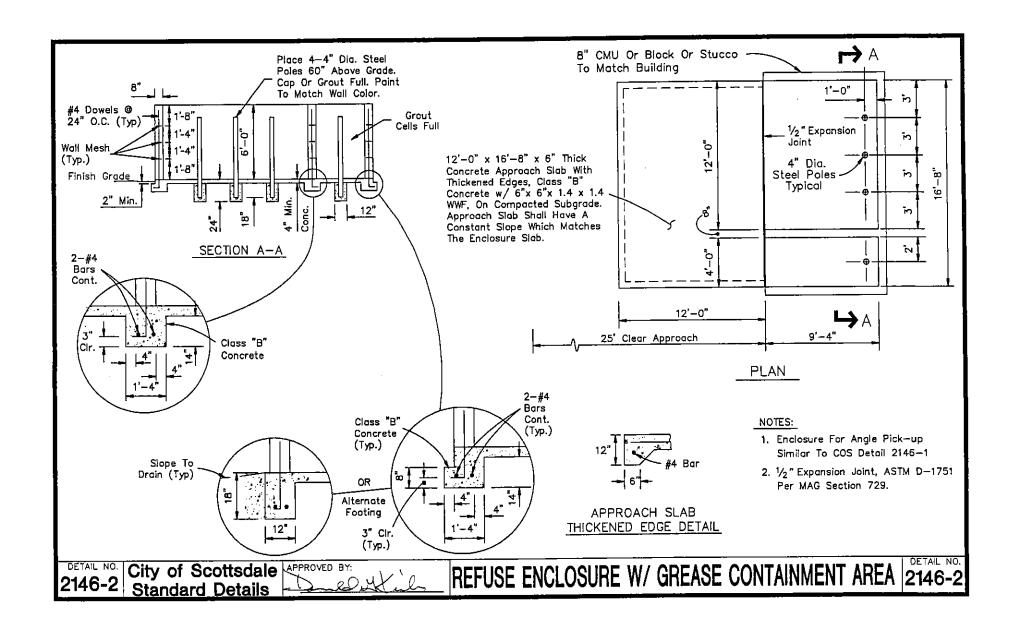
SBRT = South Bound Right Turn and shall be the phase for vehicles facing south and turning to west

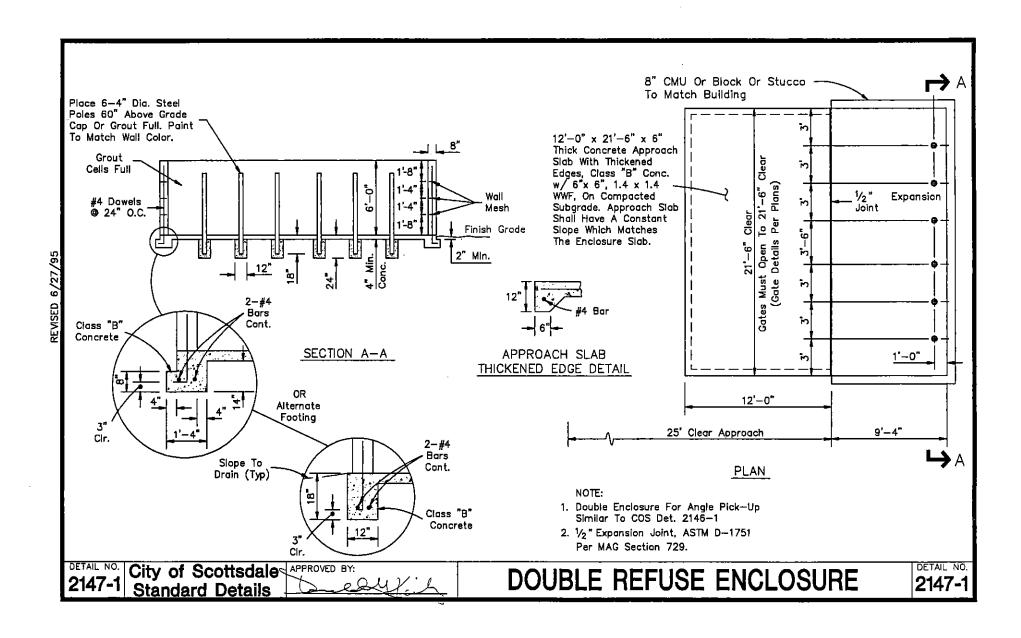
2141

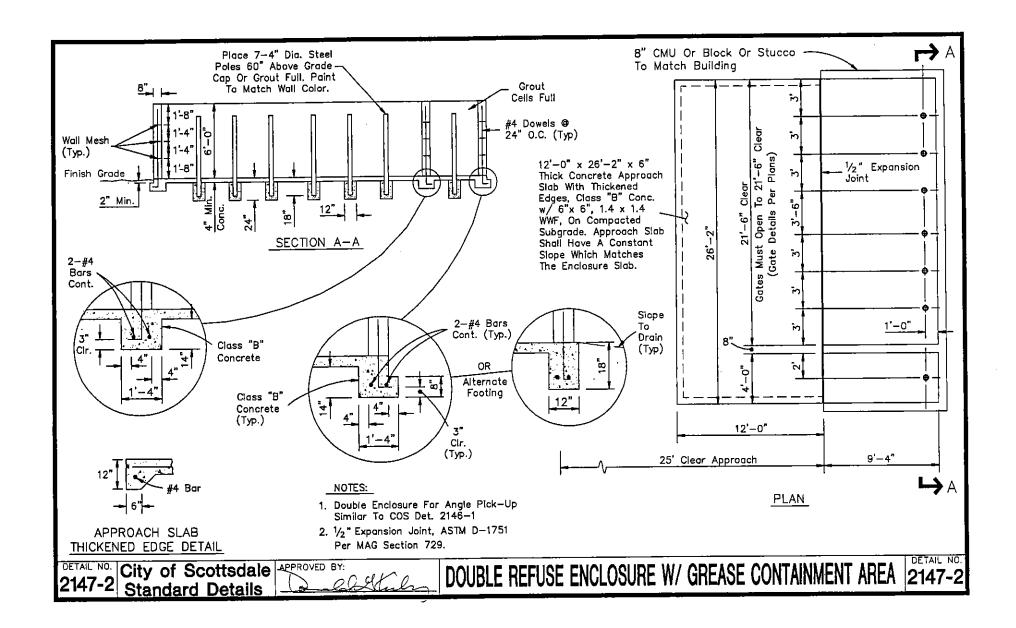
City of Scottsdale Standard Details TAPE COLOR CODES FOR TRAFFIC SIGNAL WIRING

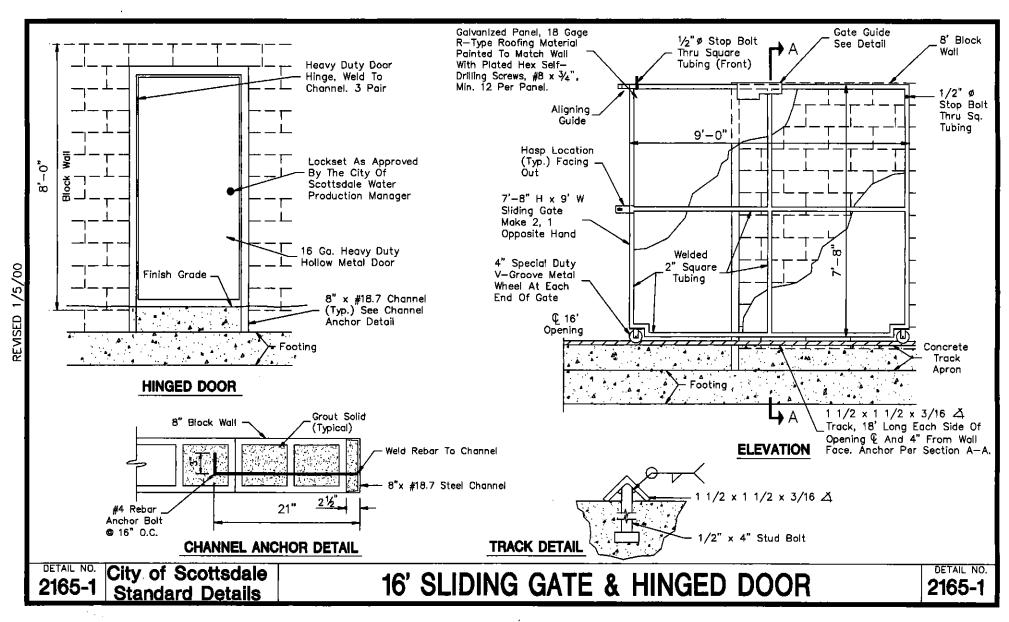
DETAIL NO.

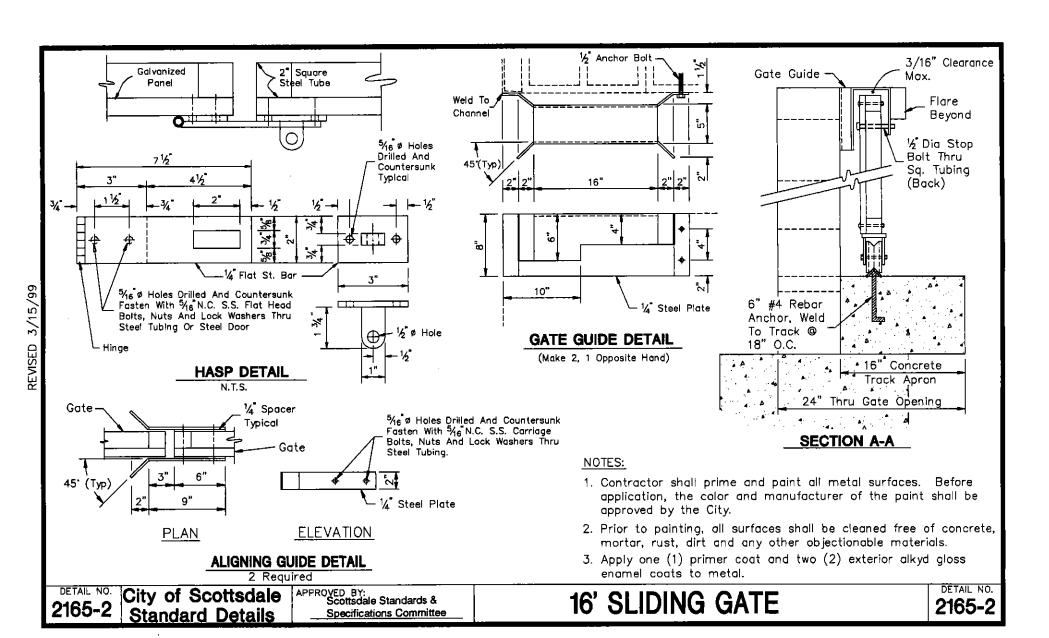


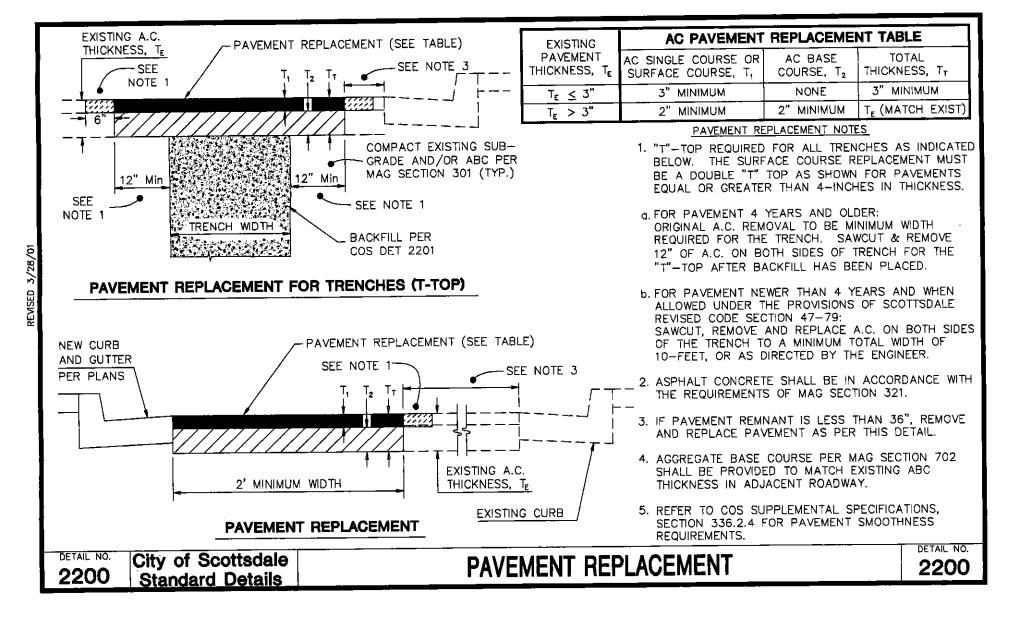




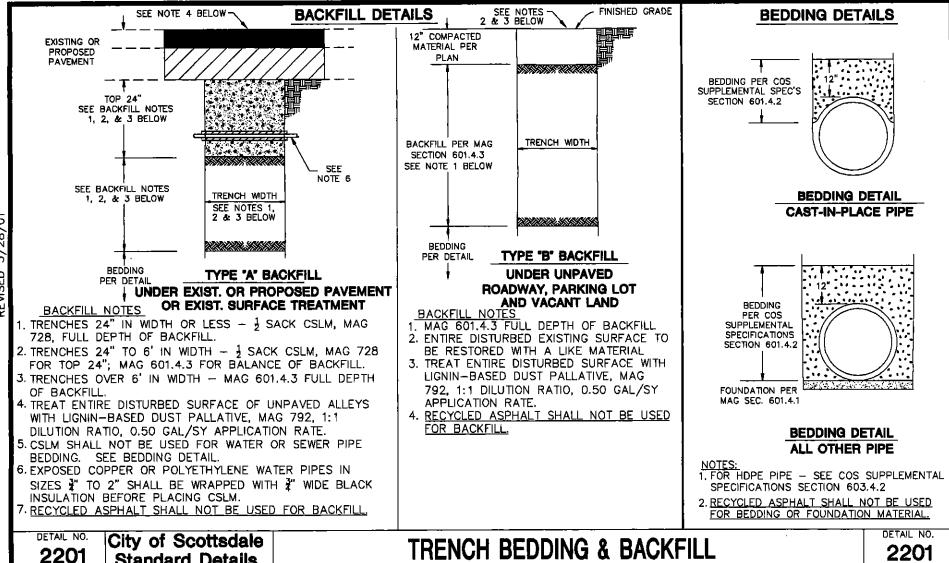






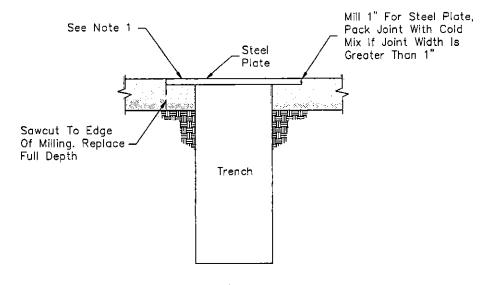


Standard Details



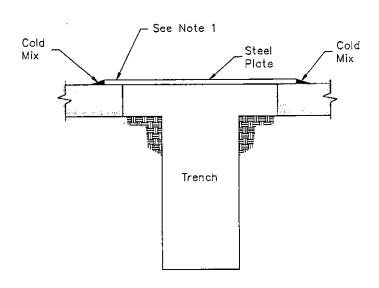
NOTES:

- 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.



TYPE "A" PLATING

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



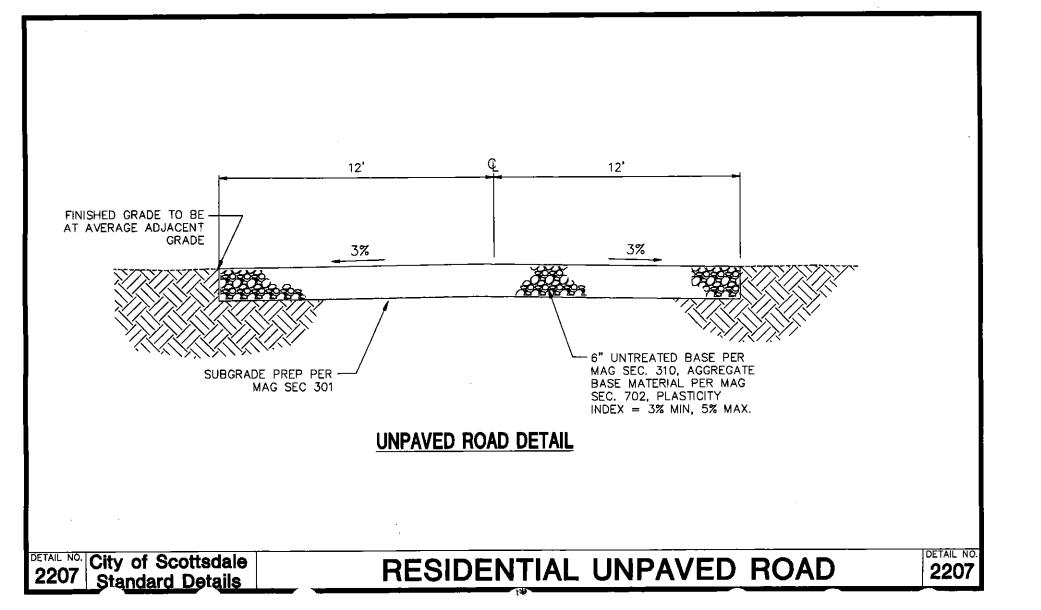
TYPE "B" PLATING
CITY POSTED SPEEDS
UNDER 35 MPH

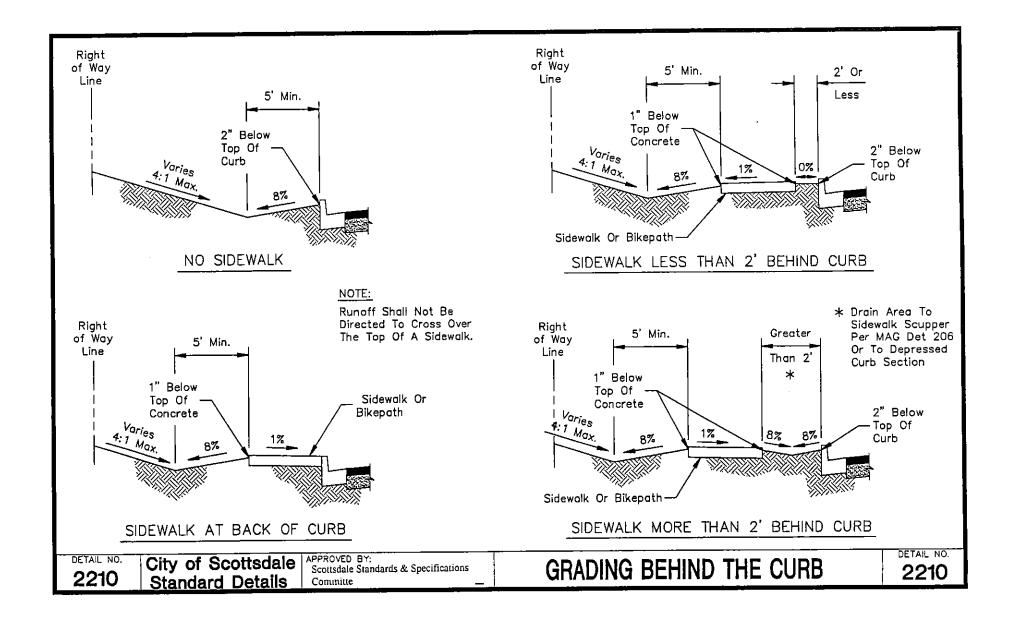
DETAIL NO. 2202

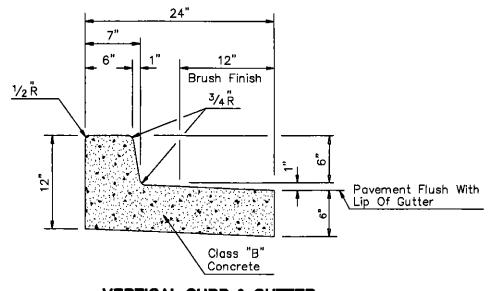
City of Scottsdale Standard Details

APPROVED BY: Scottsdale Standards & Specifications Committe

TRENCH PLATING





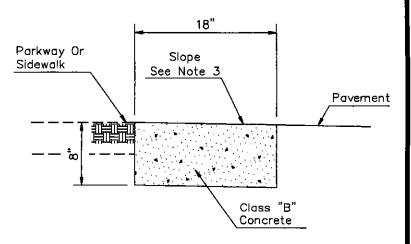


VERTICAL CURB & GUTTER WITH DEPRESSED LIP

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 ½ 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

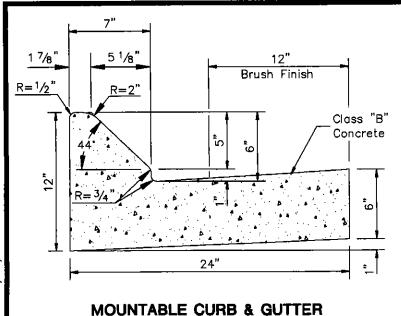
NOTES

- 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.



NOTES

TYPE "M"

- All exposed surfaces to be trowel finished except as shown. See M.A.G. Section 340.
- 2. Contraction joint spacing 10' maximum.
- Construct curb and install 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. Colored concrete, if called for on the plans, shall be colored integrally.
- 5. Steel reinforcement Per M.A.G. Section 727.

2221 City

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

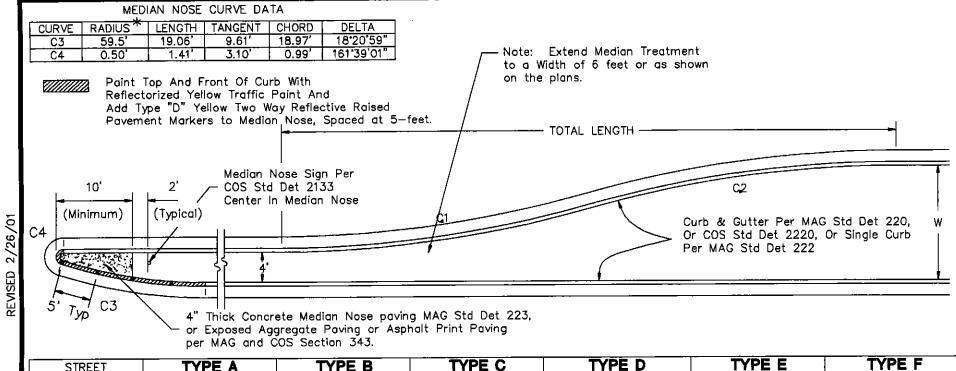
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#4 Bar (Continuous) Varies $R = \frac{3}{4}$ " (Typ) Per Vertical Curb & Gutter Per MAG Det 220, Type 'A' Or COS Det 2220, Type 'A' 2 #4 Bars (Cont) @ 9" O.C. (Vert.) 2 #4 Bars (Cont) @ 9" O.C. (Vert.) #4 Bar @ 18" O.C. Class "B" Concrete #4 Bar (Continuous) **CURB WALL** TYPE "W"

10"

24"

CURB & GUTTER - TYPES M & W



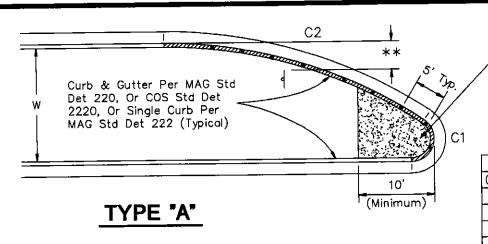
STREET CLASSIFICATION	COLLECTO		TYP MINOR A	E B	TYF MAJOR	E C ARTERIAI	TYP DUAL LEFT	É D TURN LANES	TYP MINOR A	PEE ARTÉRIAL	TYF Major .	PE F ARTERIAL
TOTAL LENGTH		.49	98.			.36'	164		103			3.62
MEDIAN WIDTH, W	1:	5'	15	5'	1	5'	2`	7'	16	5'	2	4'
CURVE NUMBER	C1	C2	C1	C2	C1	C2	C1	C2	C1	C2	C1	C2
RADIUS *	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*59'17"	10*59'17"	15*54'56"	15'54'56"	13'15'41"	1315'41"	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'	34.64	69.28'	83.07	83.07

* ALL RADII AND DIMENSIONS TO BACK OF CURB

NOTE: Curve Data Shown Is For Streets On Linear Alignments Only.

DETAIL NO. 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 DATA - W=15'							
CURVE	RADIUS	LENGTH	TANGENT	CHORD	<u>DELTA</u>		
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	2.50'	5.74'	5.57	4.56	131'38'42"		
C4	59.50	25.11	12.74	24.92	24'10'39"		

CURVE DATA - W=16'							
CURVE	RADIUS *	LENGTH	TANGENT	CHORD	DELTA		
C1	2.50'	6.27	7.65	4.75	143'48'20"		
C2	59.50'	37.59'	19.44	36.97	36°11'40"		
C3	2.50'	5.64'	5.27'	4.52	129'14'46"		
C4	59.50	26.35	13.40	26.14	25°22'37"		

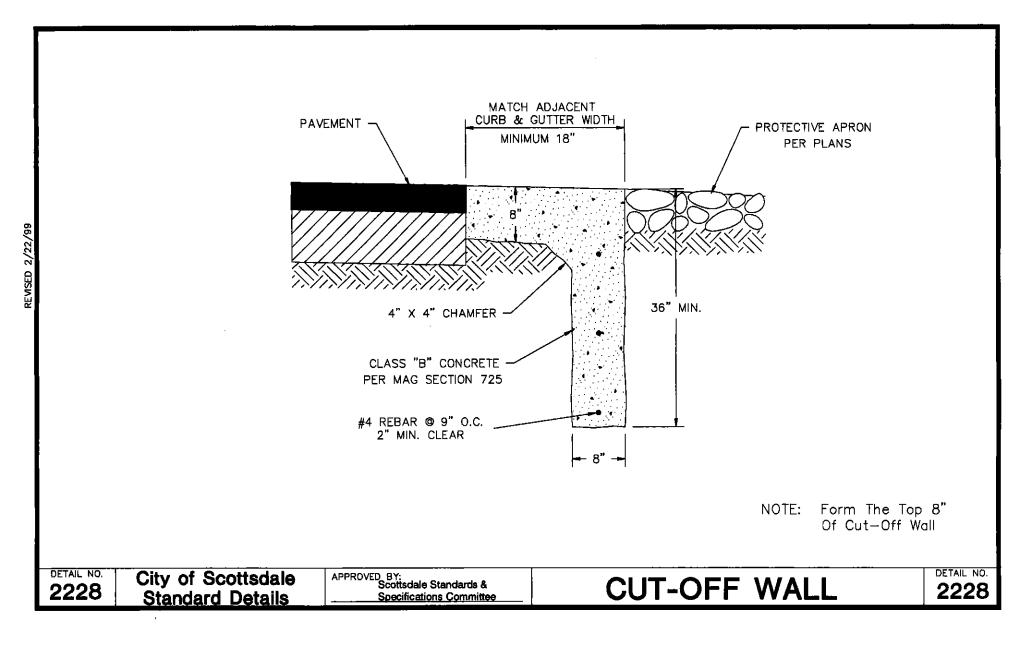
	CURVE DATA - W=24'							
CURVE	RADIUS *	LENGTH	TANGENT	CHORD	DELTA			
C1	2.50'	5.75	5.59	4.56	131'48'37"			
C2	59.50'	50.04	26.61	48.58	48"11'23"			
C3	2.50	4.93'	3.77'	4.17	112'53'08"			
C4	59.50'	34.8 <u>5</u> ′	17.94	34.35	33'33'26"			

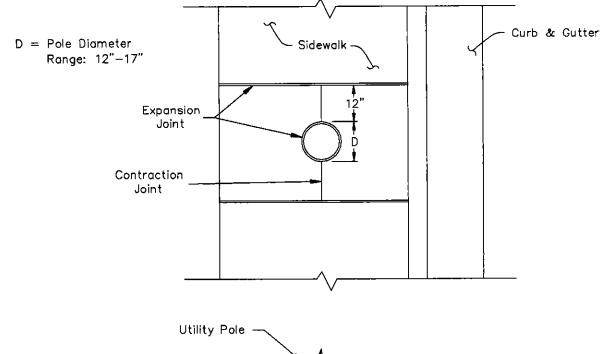
Paint Top And Front Of Curb With Reflectorized Yellow Traffic Paint And Add Type "D" Yellow Reflective Raised Pavement Markers to Median Nose Nose, Spaced at 5—feet.

	- 1	C4	
w	Median Nose Sign Per — COS Std Det 2133 (Typical)		**)c3
		C4 5 Typ.	
	TYPE "B"	10' (Minimum)	

City

City of Scottsdale Standard Details MEDIAN NOSE DETAILS

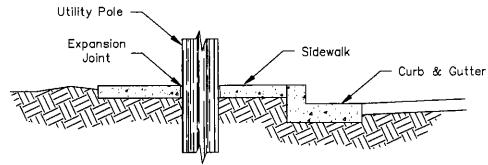




<u>NOTES</u>

install expansion joint around wood pole.

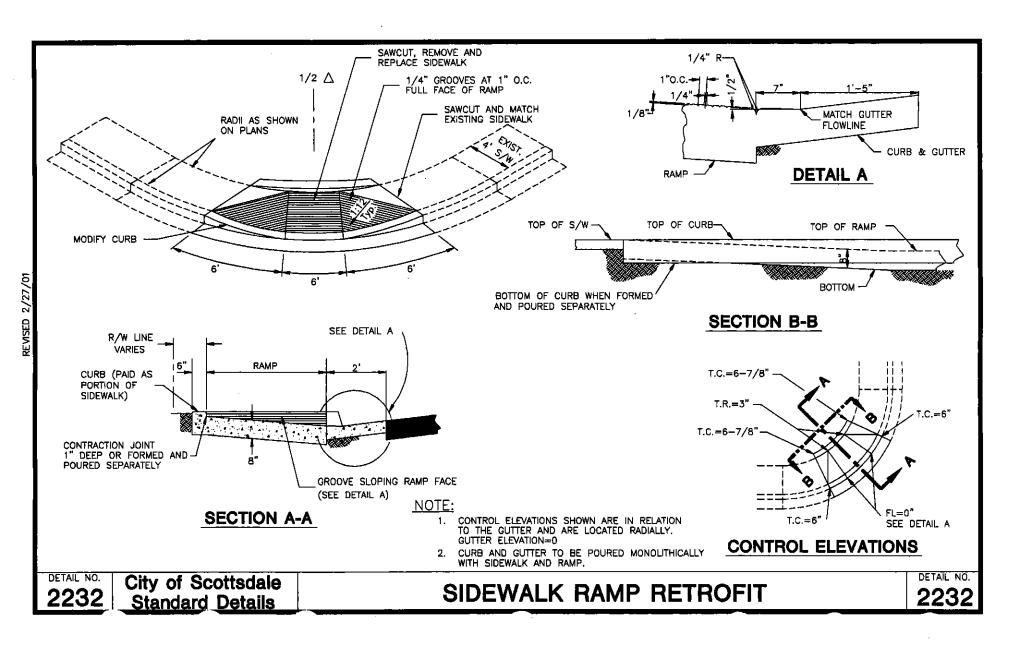
Install expansion joint at sidewalk 1/4" lower than sidewalk

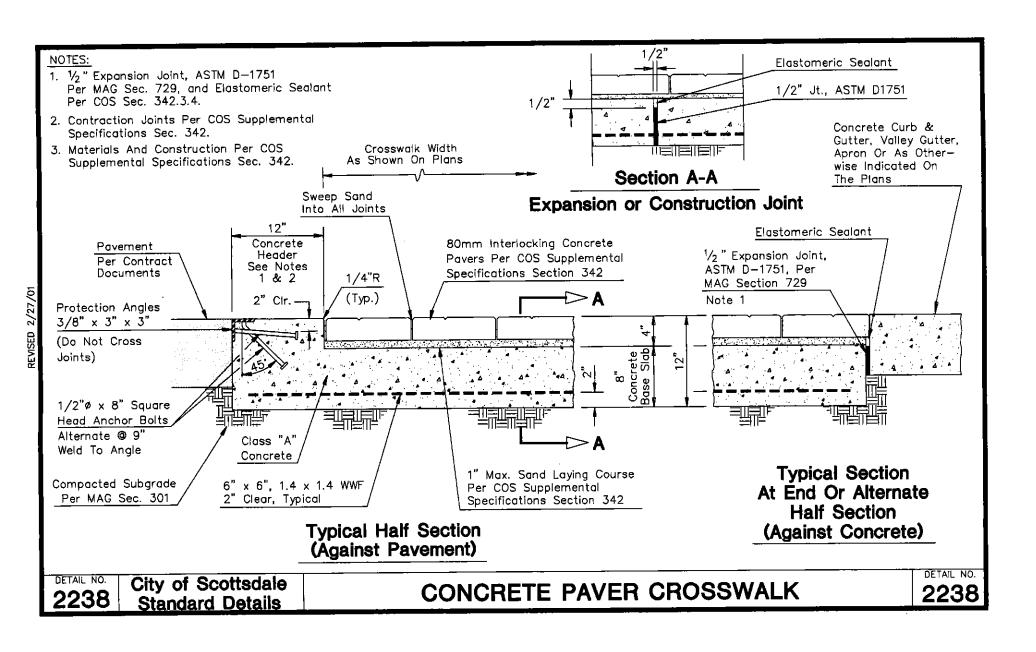


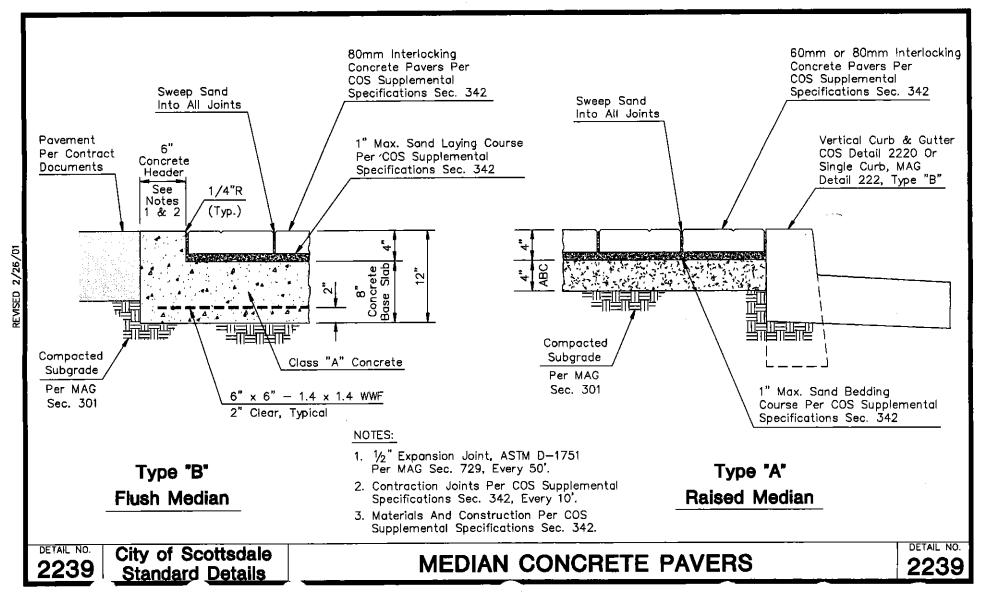
2230

City of Scottsdale Standard Details

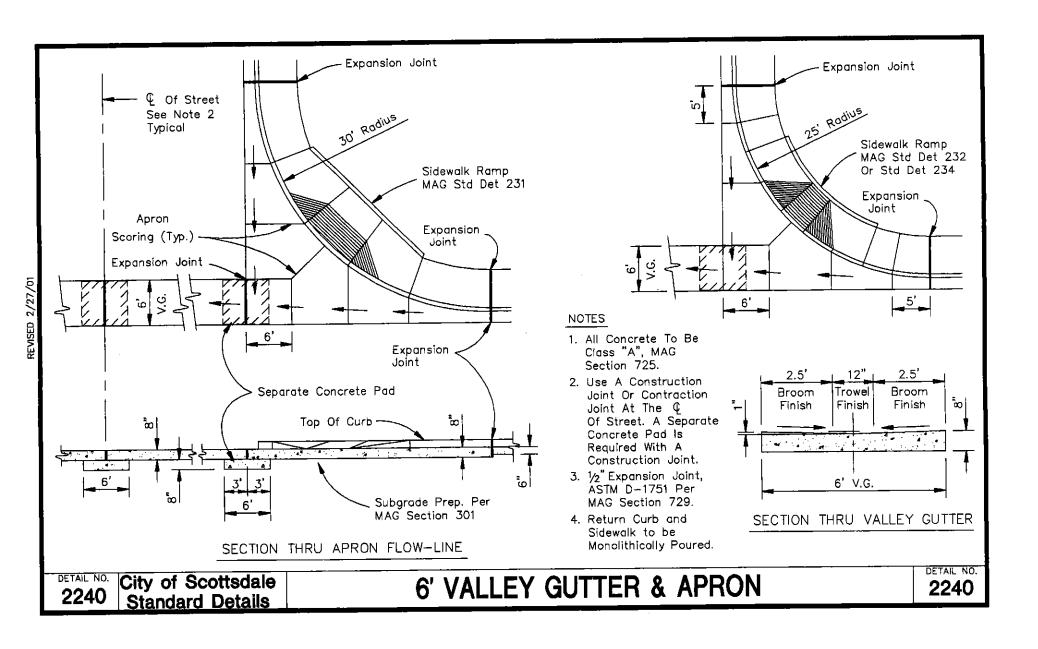
APPROVED BY: Scottsdale Standards & Specifications Committee SIDEWALK CUTOUT FOR UTILITY POLES

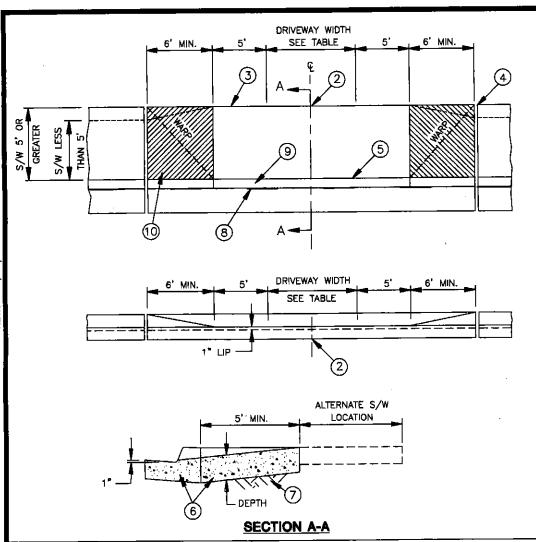






i de





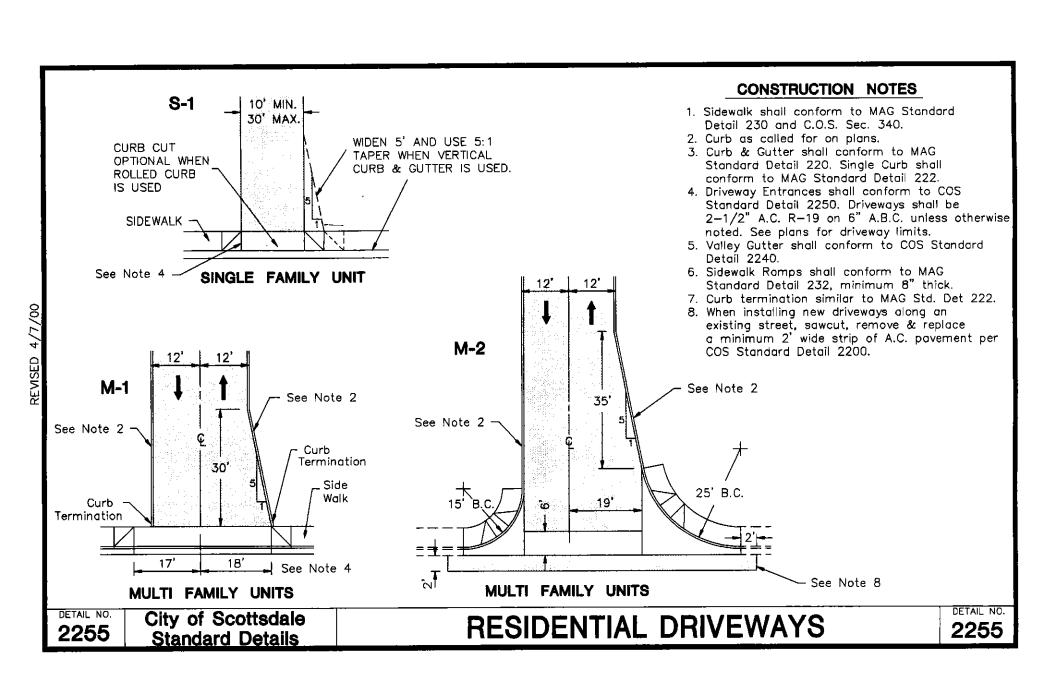
NOTES

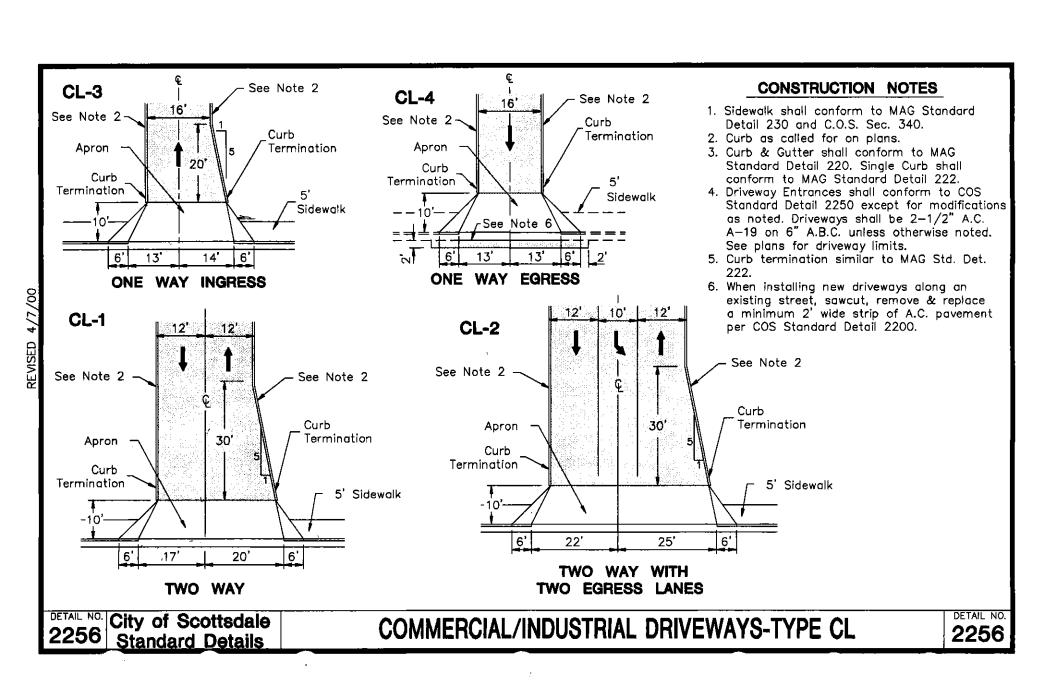
- 1. DEPRESSED CURB SHALL BE PAID FOR AT THE UNIT PRICE BID FOR THE TYPE OF CURB USED AT THAT LOCATION.
- 2 CONTRACTION JOINT ON DRIVEWAY CENTERLINE.
- 3 BACK OF DRIVEWAY ENTRANCE OR FUTURE SIDEWALK.
- 4 MASTIC EXPANSION JOINT THROUGH CURB AND GUTTER. EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE 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.

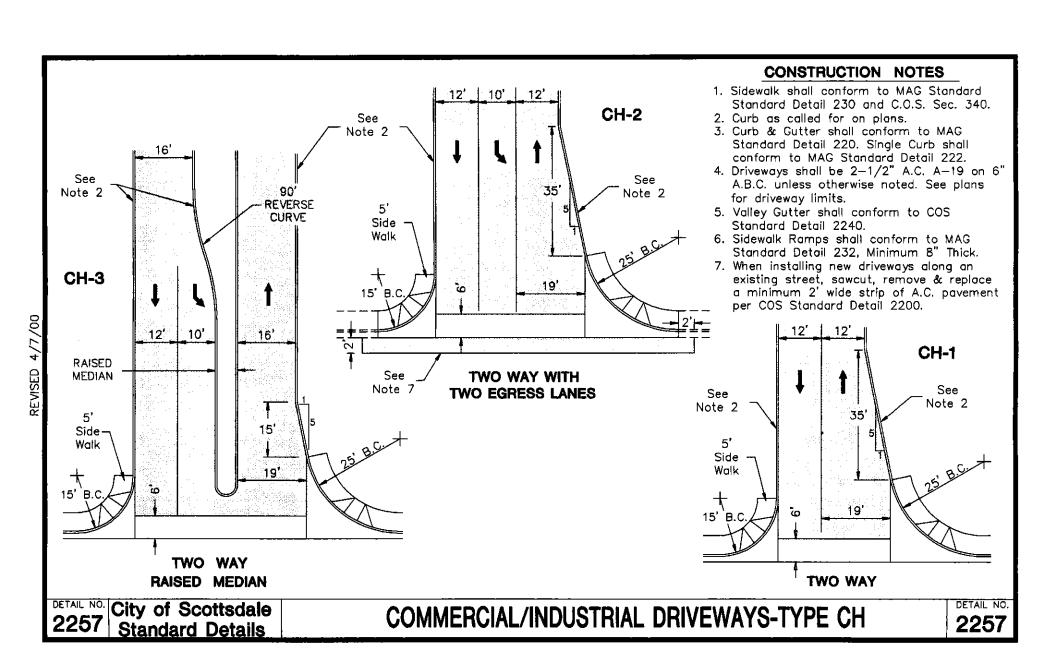
COMMERCIAL & INDUSTRIAL				
DRIVEWAY WIDTH	MIN.	MAX.	CLASS	DEPTH
COMMERCIAL ZONING INDUSTRIAL ZONING + 24' MIN. FOR TWO WAY TRAFFIC	+ 16' + 16'	40' 40'	ВВ	8" 8"
RESIDENTIAL				
DRIVEWAY WIDTH	MIN.	MAX.	CLASS	DEPTH
MAJOR STREET COLLECTOR STREET LOCAL STREET * 16' DESIRABLE	16 *12' 12'	30' 30' 30'	B B	5" 5" 5"
<u> </u>		•		DETAIL NO.

City of Scottsdale Standard Details

DRIVEWAY ENTRANCES

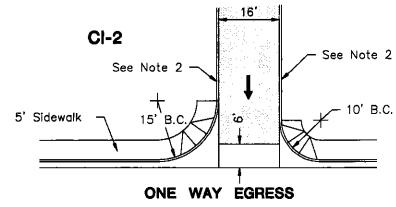


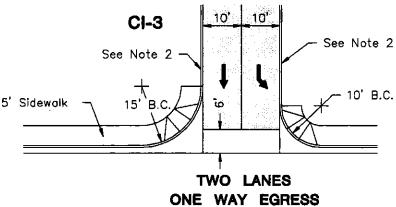




CONSTRUCTION NOTES

- Sidewalk shall conform to MAG Standard Standard Detail 230 and C.O.S. Sec. 340.
- 2. Curb as called for on plans.
- Curb & Gutter shall conform to MAG Standard Detail 220. Single Curb shall conform to MAG Standard Detail 222.
- Driveways shall be 2-1/2" A.C. A-19 on 6" A.B.C. unless otherwise noted. See plans for driveway limits.
- Valley Gutter shall conform to COS Standard Detail 2240.
- Sidewalk Ramps shall conform to MAG Standard Detail 232, Minimum 8" Thick.
- When installing new driveways along an existing street, sawcut, remove & replace a minimum 2' wide strip of A.C. pavement per COS Standard Detail 2200.

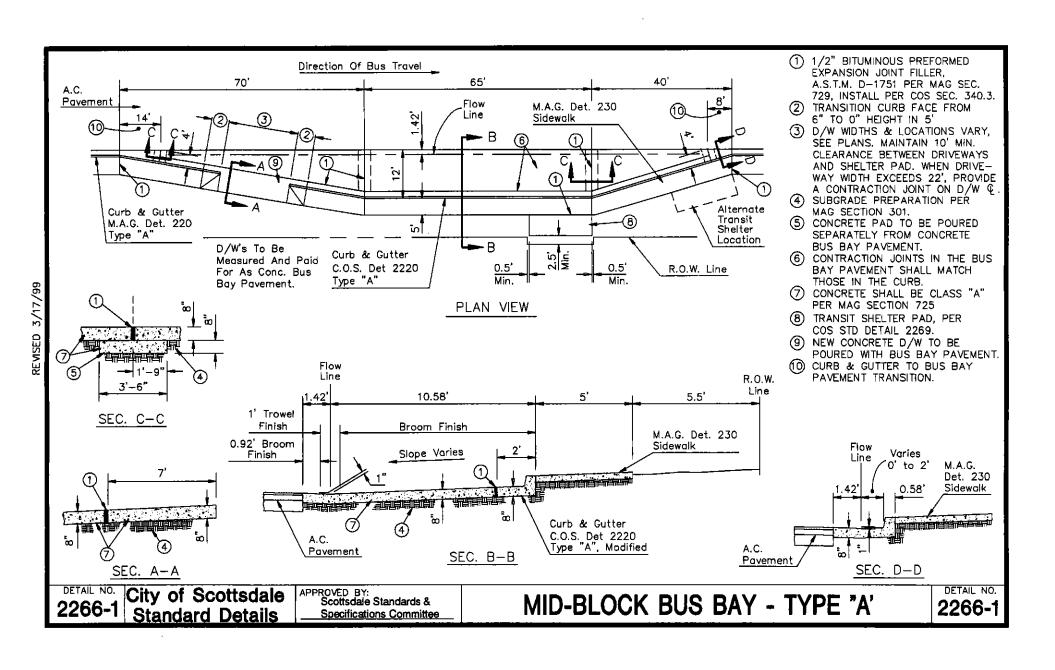


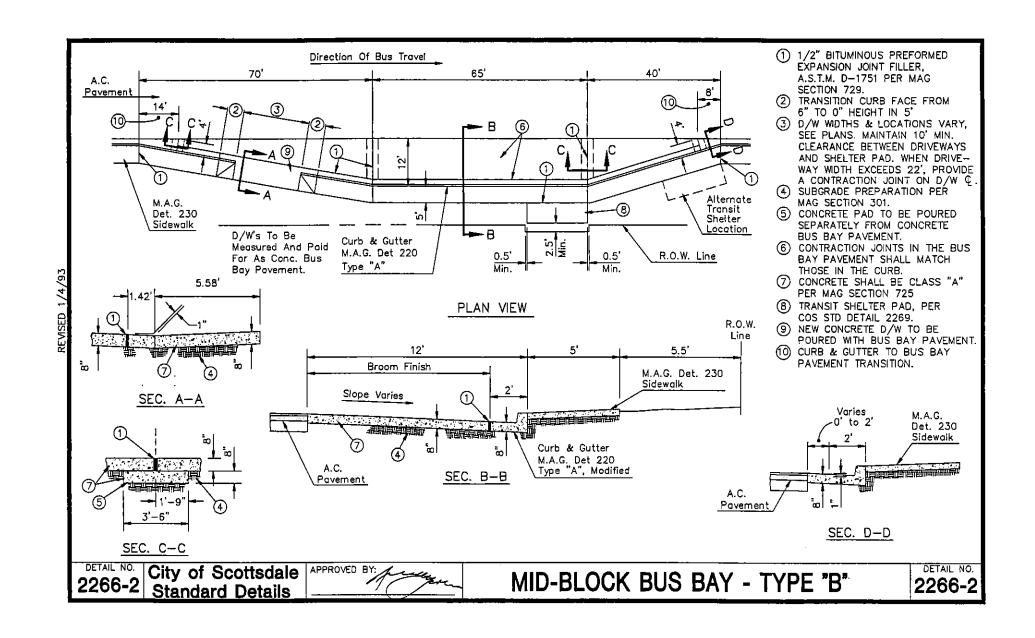


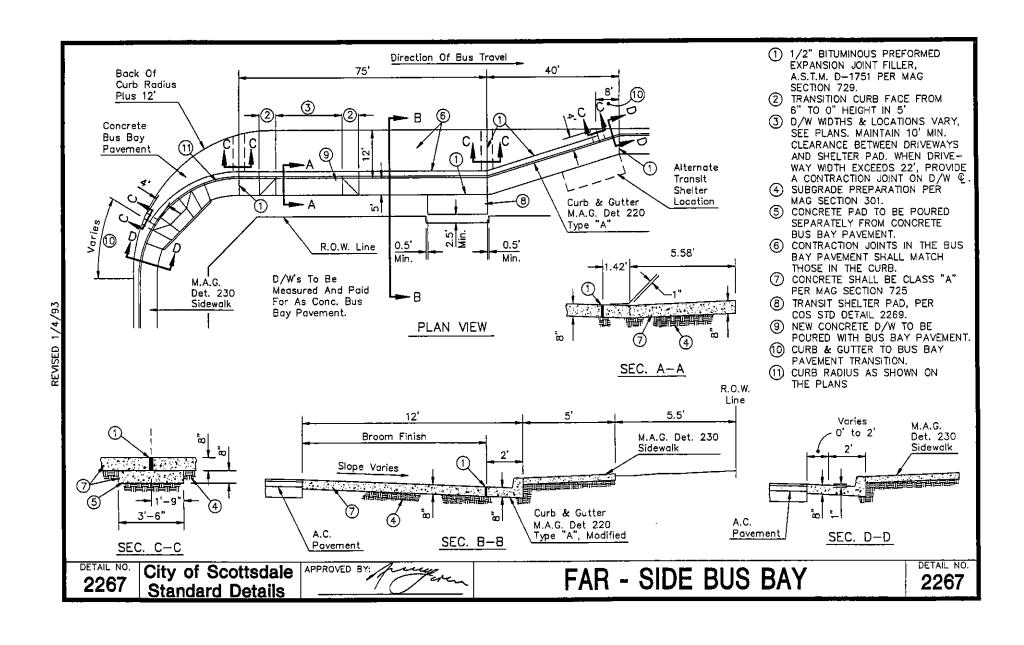
DETAIL NO.

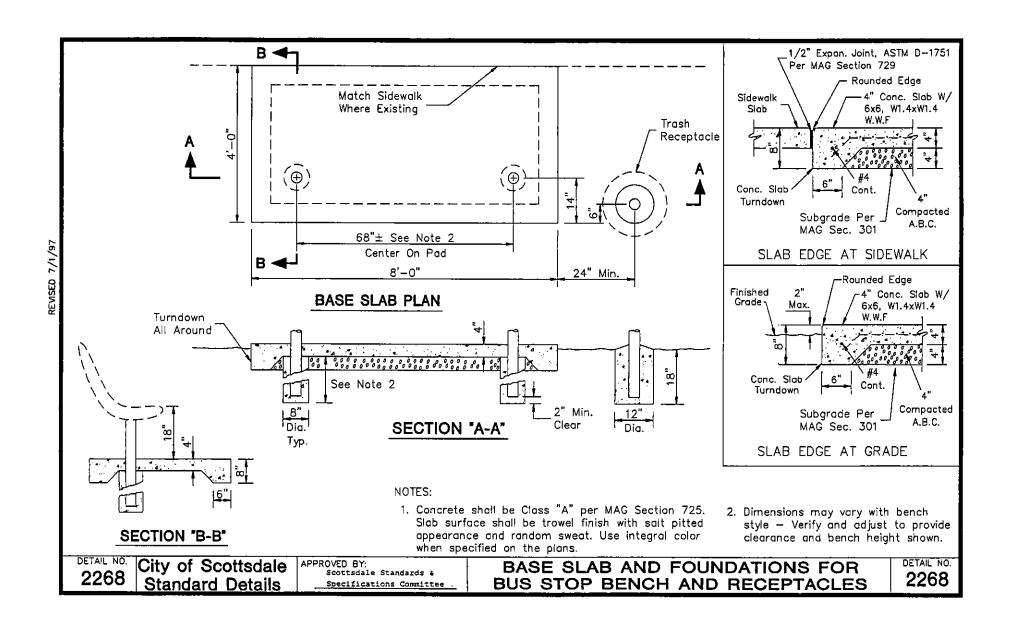
City of Scottsdale Standard Details

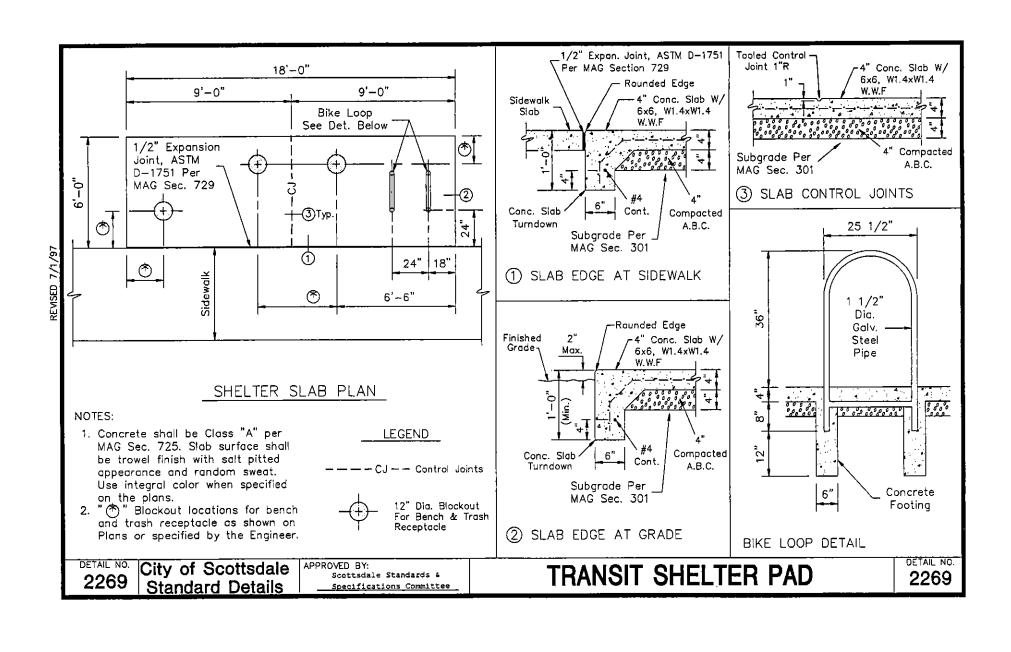
COMMERCIAL/INDUSTRIAL DRIVEWAYS-TYPE CI











Frame & Cover Only

Adjusted Per MAG

Std. Det. 422

18"

Match Existing -Unpaved Street

City of Scottsdale

Standard Details

12"

FRAME & COVER GRADE ADJUSTMENT

Match Existing Pvmt Surface

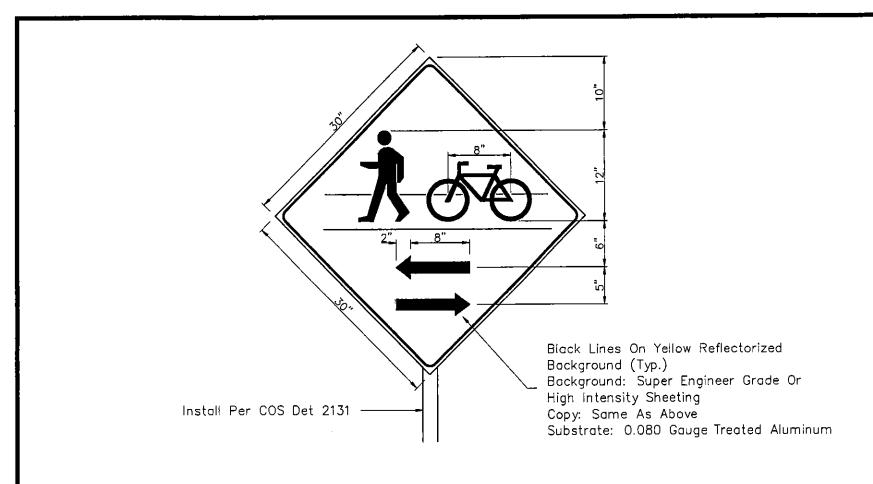
Leave Concrete Collar

PLACED PARALLEL AND PERPENDICULAR TO THE CENTERLINE OF THE ROADWAY.

DETAIL NO.

2270

Tack Coat All Surfaces

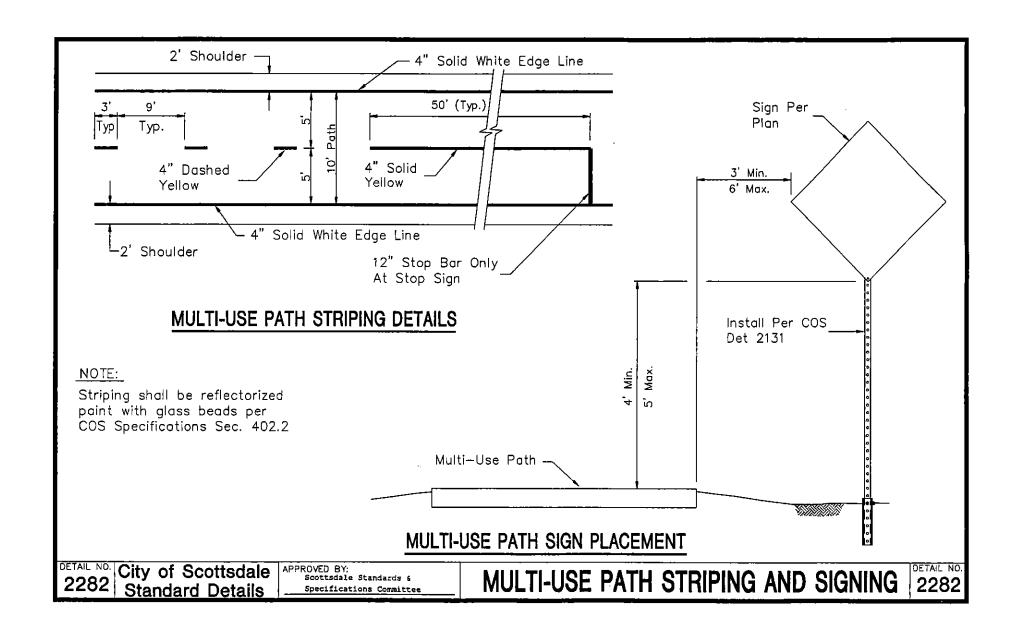


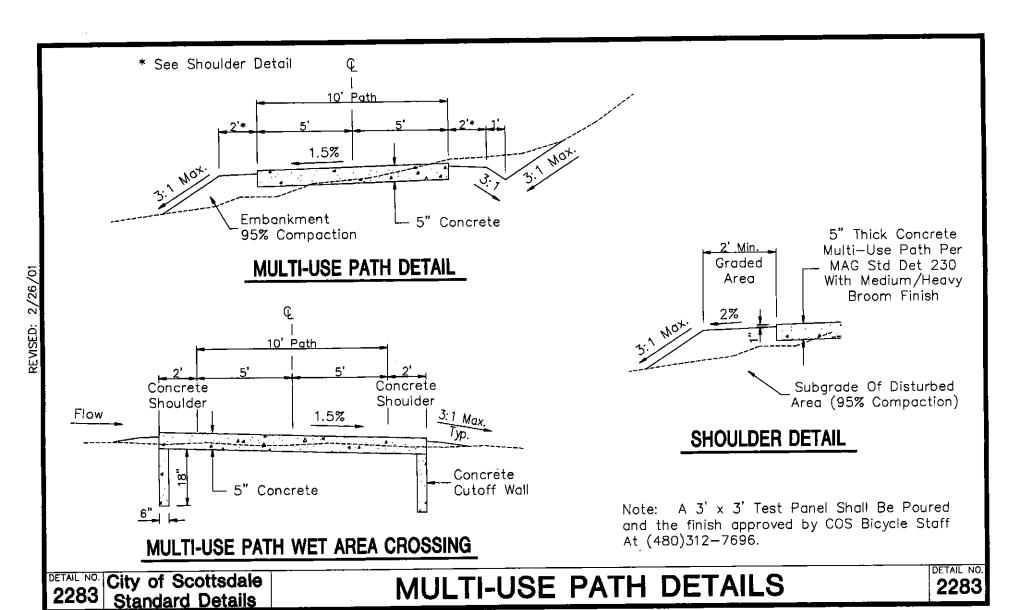
MULTI-USE PATH CROSSING SIGN

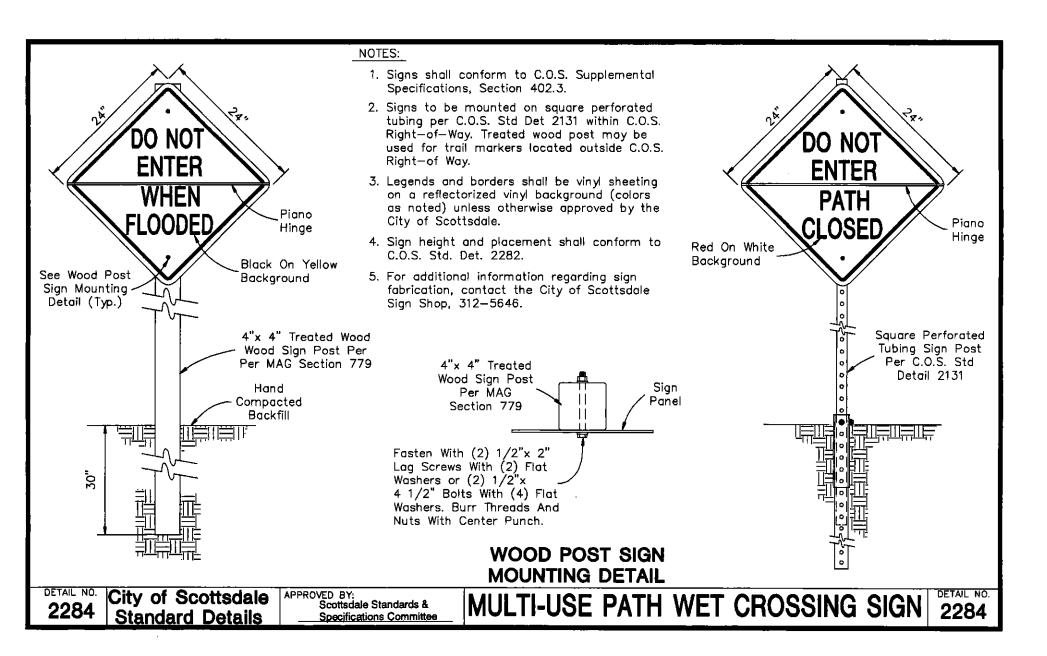
2281 City of Scottsdale Standard Details

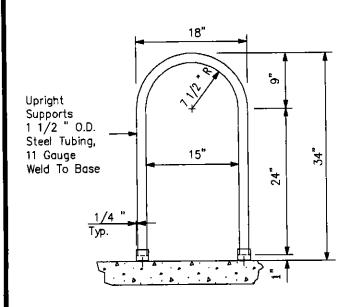
APPROVED BY:
Scottsdale Standards &
Specifications Committee

MULTI-USE PATH CROSSING SIGN

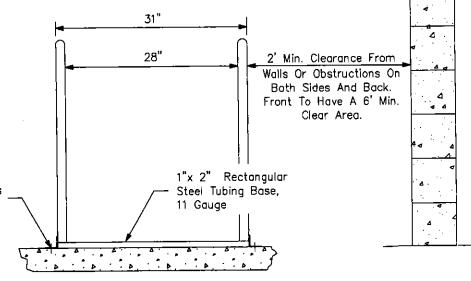








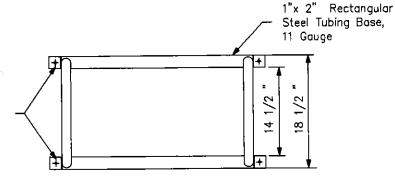
1/8 "x 2"x 2"x 0'-2" Angle Anchor Brackets w/1/2 "Ø Hole. Weld To Base (4 Reg'd)



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"ø 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.

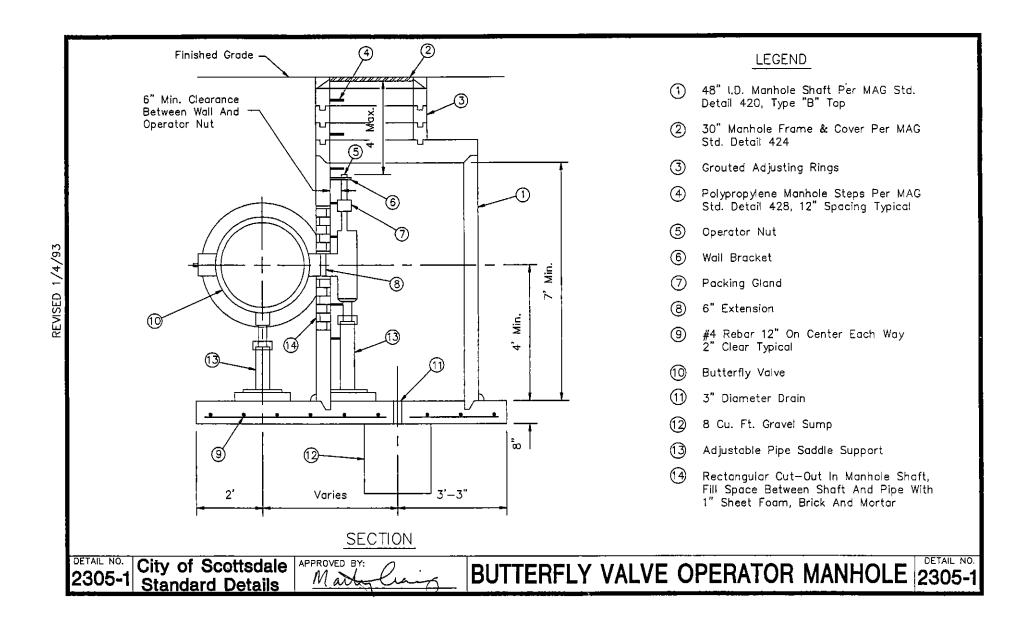
1/8 "x 2"x 2"x 0'-2" Angle Anchor Brackets w/ 1/2 "Ø Hole. Weld To Base. (4 Reg'd)

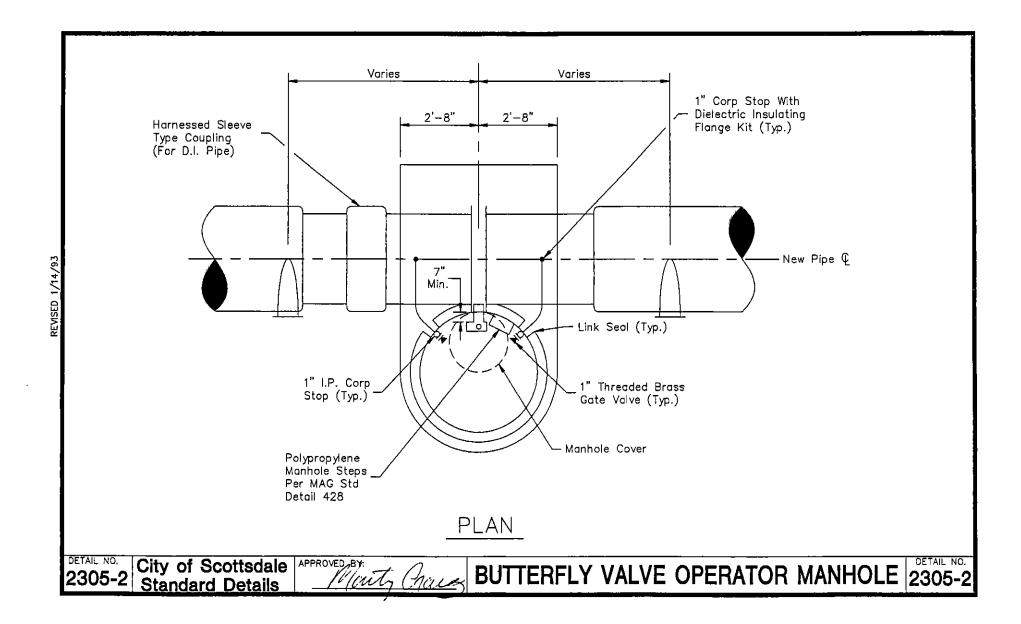


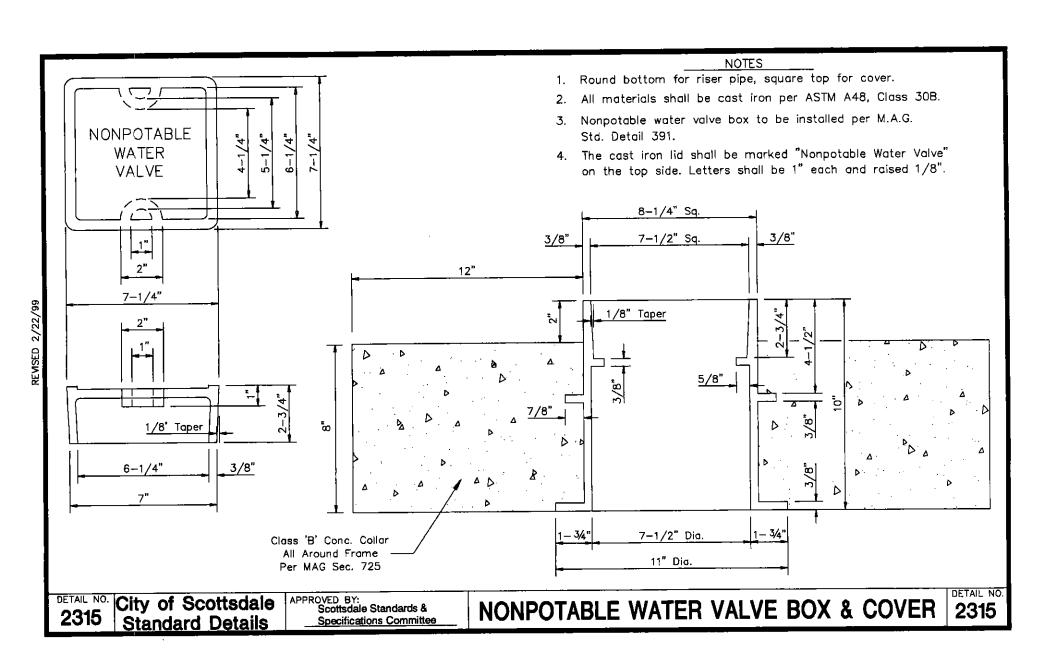
DETAIL NO.

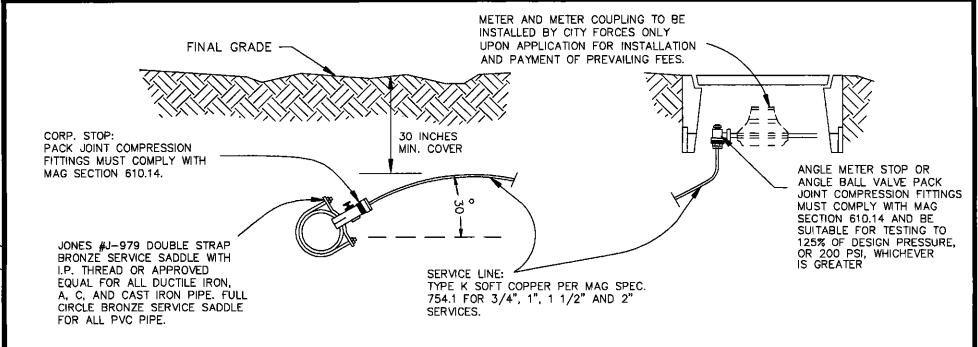
City of Scottsdale 2285 Standard Details

APPROVED BY:
Scottsdale Standards & Specifications Committee DOUBLE BICYCLE RACK









NOTE:

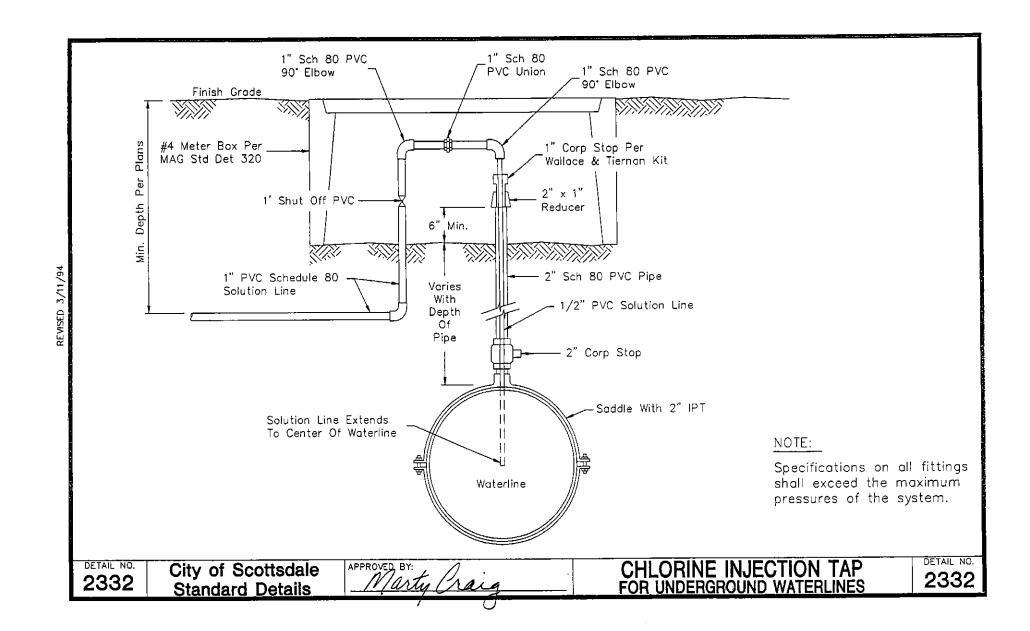
- 1. All taps must be made using a service saddle.
- 2. All service line sizes shall have the pack joint compression fittings for corp. stops and meter stops.
- 3. Where a contractor is installing new water lines, he shall also install the water service connection. The installation shall include the 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 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.

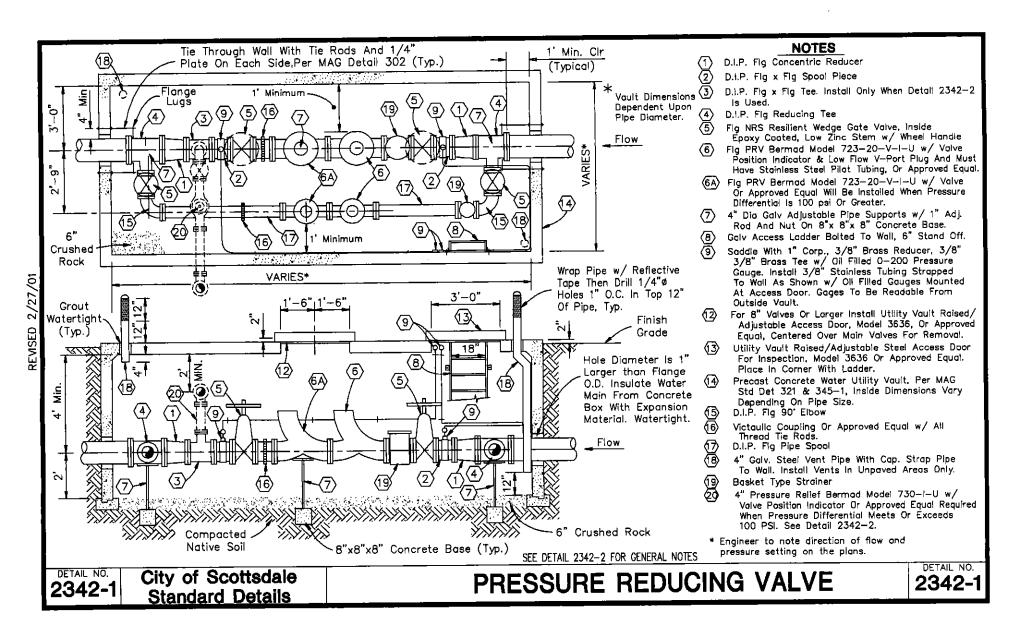
2330

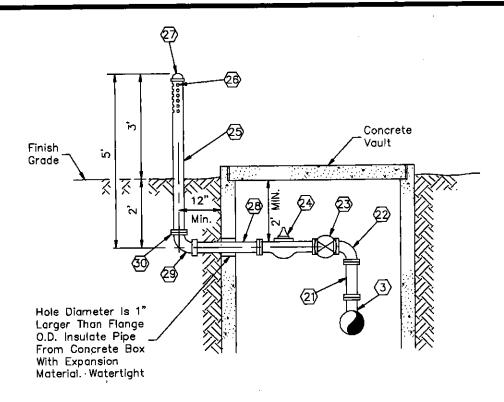
City of Scottsdale Standard Details

WATER SERVICE LINE CONNECTION

DETAIL NO.







PRESSURE RELIEF OUTLET ASSEMBLY DETAIL

SEE NOTE 20 DETAIL 2342-1

NOTES

- (3) Fig x Fig Tee, See Detail 2342-1
- (21) 4" Flg Connecting Piece
- 4" DIP Fig x Fig 90' Elbow, w/ Restrained Joints (Meg A Lug Or Approved Equal)
- 4" Flg NRS Resilient Wedge Gate Valve, Inside Epoxy Coated, Low Zinc Stem 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)
- 26 6 Rows 2" O.C. Of 3—1"ø Holes, 180° Spray Pattern
- 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.
- 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.

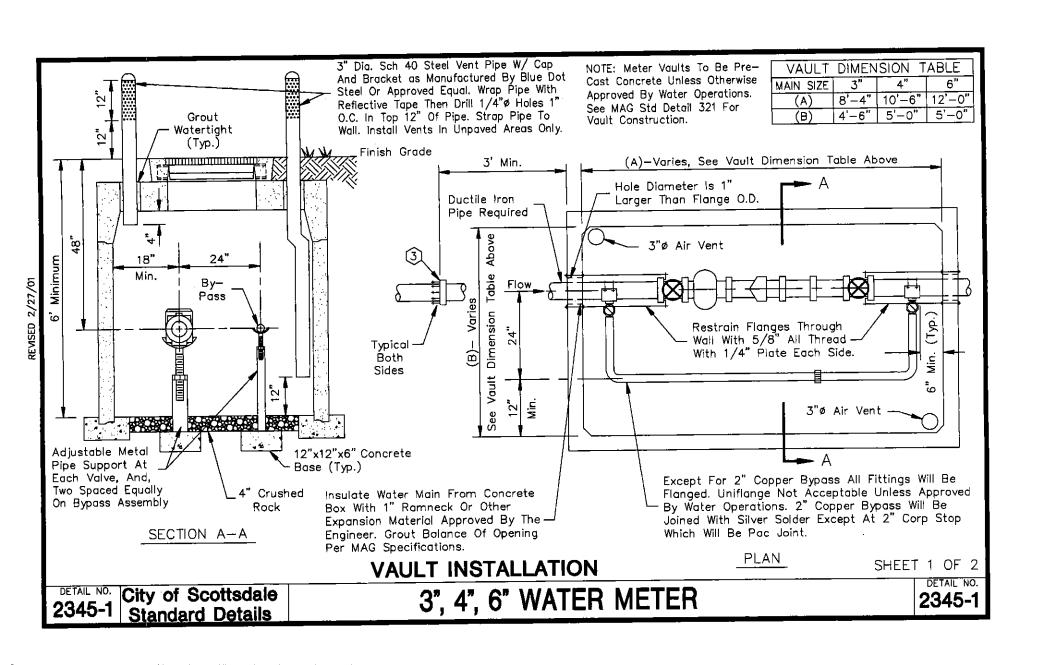
DETAIL NO. 2342-2

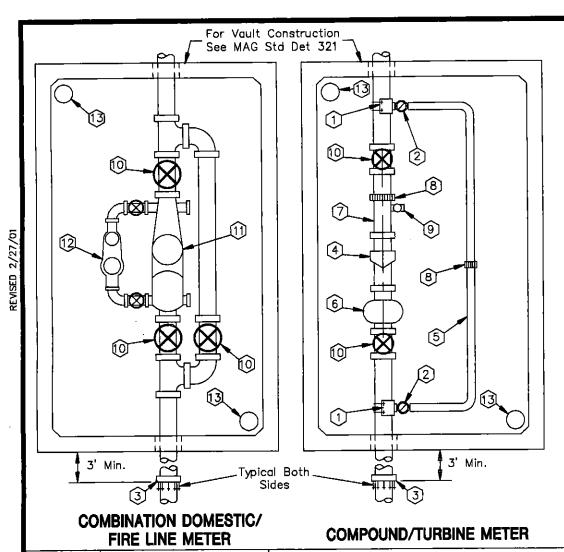
City of Scottsdale Standard Details

PRESSURE REDUCING VALVE

DETAIL NO.

2342-2





KEY NOTES

- 1 Double Strap All Bronze Service Saddie, 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.
- (7) Flanged Spool, (3 Pipe Diameters in Length, Min.).
- Provide Victaulic Coupling Or Approved Equal For All Lines 3" Or Larger.
- 2" Threaded Outlet And Ball Valve. Not Needed If Vertical Test Valve Is Provided On Meter.
- [10] Resilient Wedge Gate Valve, Flonged, 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.
- 3"ø Air Vent, See Sheet 1 Of 2.

NOTES

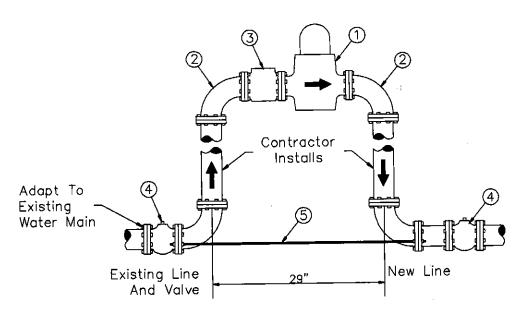
- 1. For Larger Meters Special Vault Design Is Required.
- Use Of Remote Reading Device At Option Of Utility.
- An Approved Backflow Prevention Assembly Shall Be Required Downstream Of The Water Meter. Contact Water Resources, Backflow Prevention For Specific Information.
- 4. Meter To Be Provided By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

SHEET 2 OF 2

DETAIL NO.

3, 4", 6" WATER METER

City of Scottsdale 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

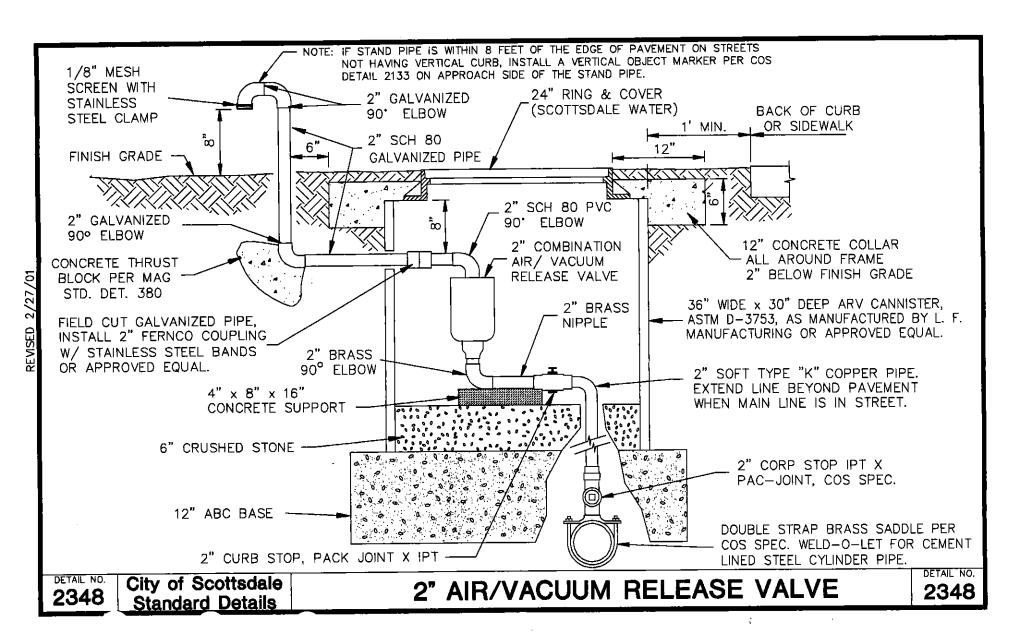
LIST OF MATERIALS

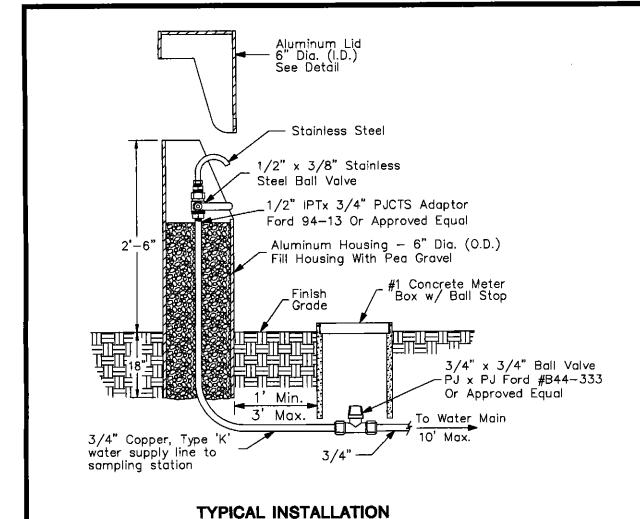
- 3", 4" & 6" Pressure regulating valve with meter and check feature — supplied by COS.
- 2 3", 4" & 6" Flanged ductile iron 90° ell supplied by COS.
- 3 3", 4" & 6" Strainer supplied by COS.
- 4 Line valves shall be within a 20' maximum distance upstream and downstream of flow meter or as approved by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

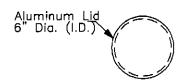
2346

City of Scottsdale Standard Details TEMPORARY CONSTRUCTION METER

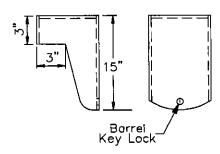
DETAIL NO.







Top View



Side View

Front View

LID DETAILS

N.T.S.

NOTES:

- 1. 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.

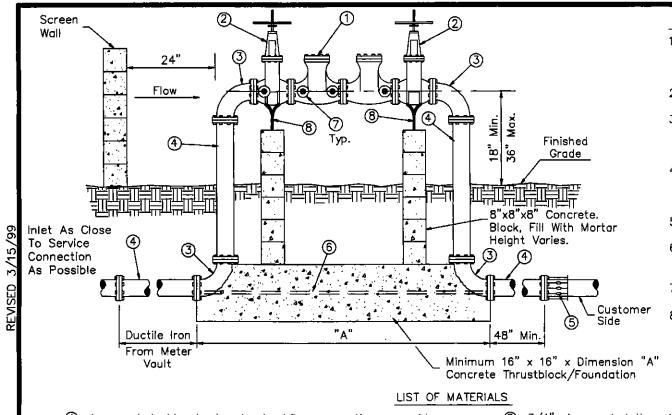
2349

City of Scottsdale Standard Details

N.T.S.

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.

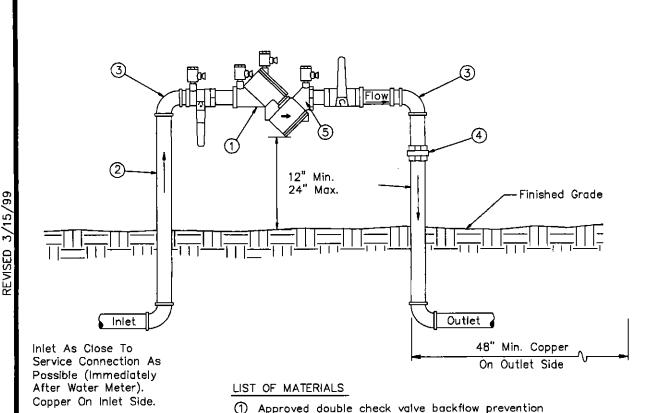
- Approved double check valve backflow prevention assembly.
- Resilient seated gate valve. O.S. & Y. (fire line connection) N.R.S. (non fire line)
- ③ 90" ell. Flanged D.I.P. 3" thru 10", Mega Lug or approved equal may be used on underground joints.
- Pipe spool. Flanged D.I.P. 3" thru 10", Mega Lug 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.
- 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. City of Scottsdale 2351

Standard Details

APPROVED BY: Scottsdale Standards & Specifications Committee DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3 INCHES THRU 10 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.
- 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.
- 6. Piping under the City right of way must be type "K" copper.
- 7. Call for underground inspection before backfilling trench.
- Vertical installations of assemblies on fire sprinkler systems are allowed using assemblies approved for use in the vertical position on fire systems.

DETAIL NO. **2352**

City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

assembly, ball valves included.

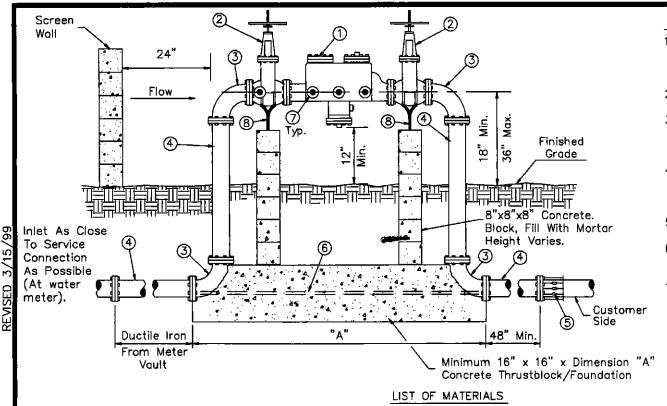
90° ell, copper, 3/4" thru 2 1/2". Pipe union, brass or copper.

Test cocks with brass plugs or adaptors with caps installed. (4 required)

2) Pipe spool, type "L" hard copper, 3/4" thru 2 1/2".

DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3/4 INCH THRU 2 1/2 INCHES

DETAIL NO.



- 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. Contact City Of Scottsdale Plan Review, Fire Dept.
- Call for underground inspection before backfilling trench.

- ① 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° eil. 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)

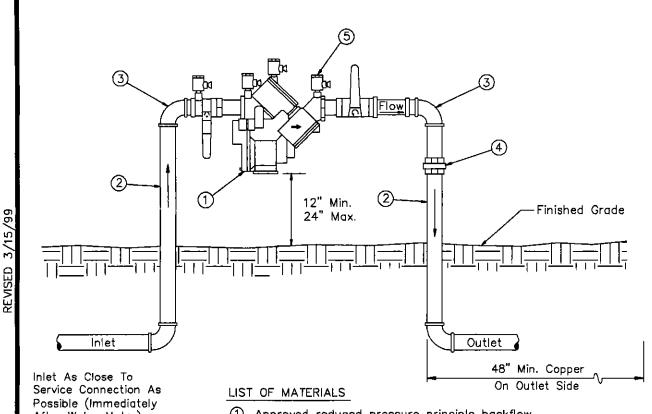
- 6 3/4" zinc coated threaded rod, (5/8" rod on 3" to 4" sizes), bolt to flanges as shown, typical both sides.
- Test cocks with brass plugs or adaptors with caps installed. (4 required)
- (8) Adjustable metal pipe supports and concrete block supports with 1" adjusting rod and nut on assemblies 4" and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



- 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.
- 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.

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)

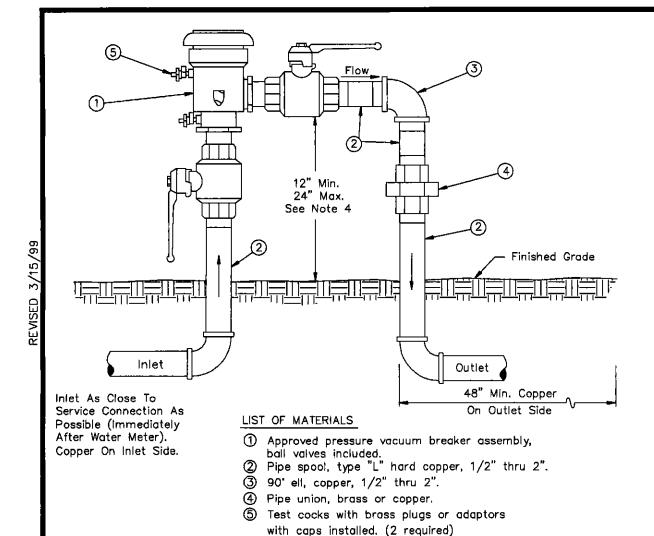
2354

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.

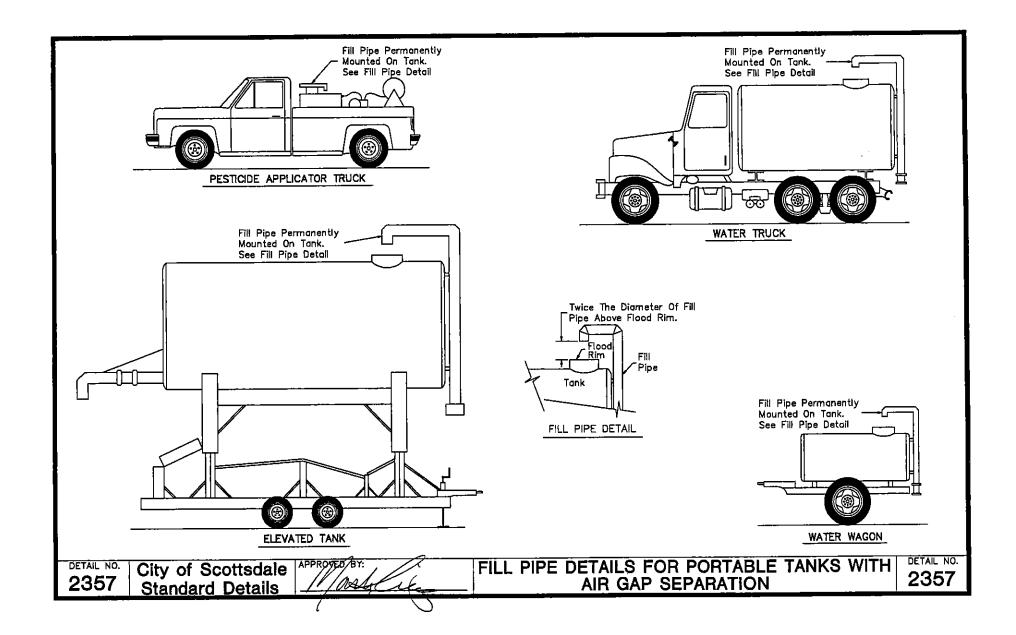


- Contact the City Of Scottsdale Water And Wastewater Operations, Backflow Prevention, 312—5668, for latest list of approved back flow prevention assemblies or certified testers.
- 2. Backflow preventers must be tested by a certified tester before final approval is issued.
- 3. Pressure vacuum breakers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

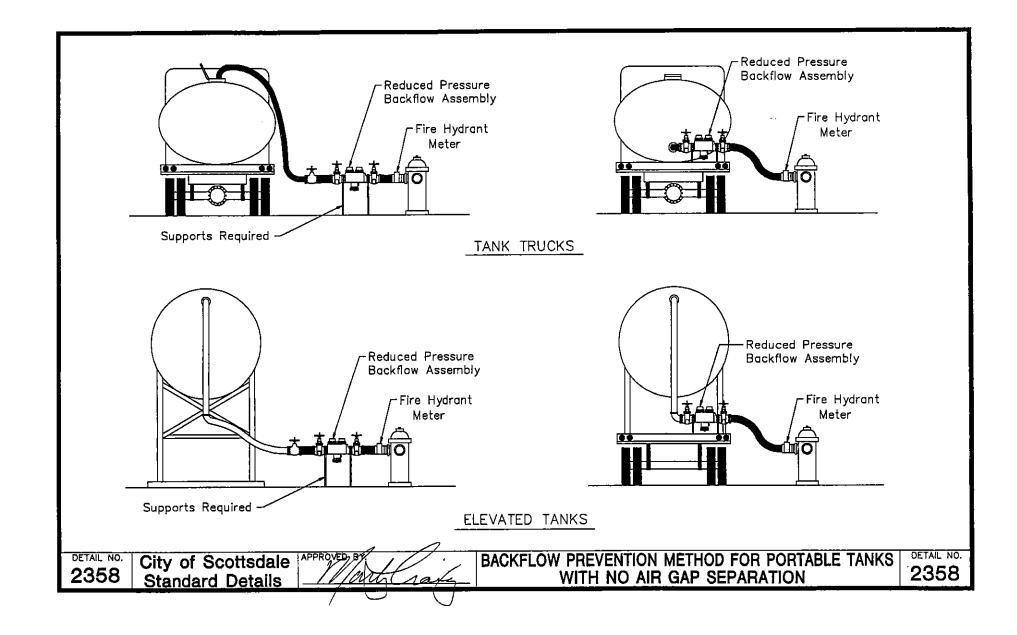
DETAIL NO. **2355**

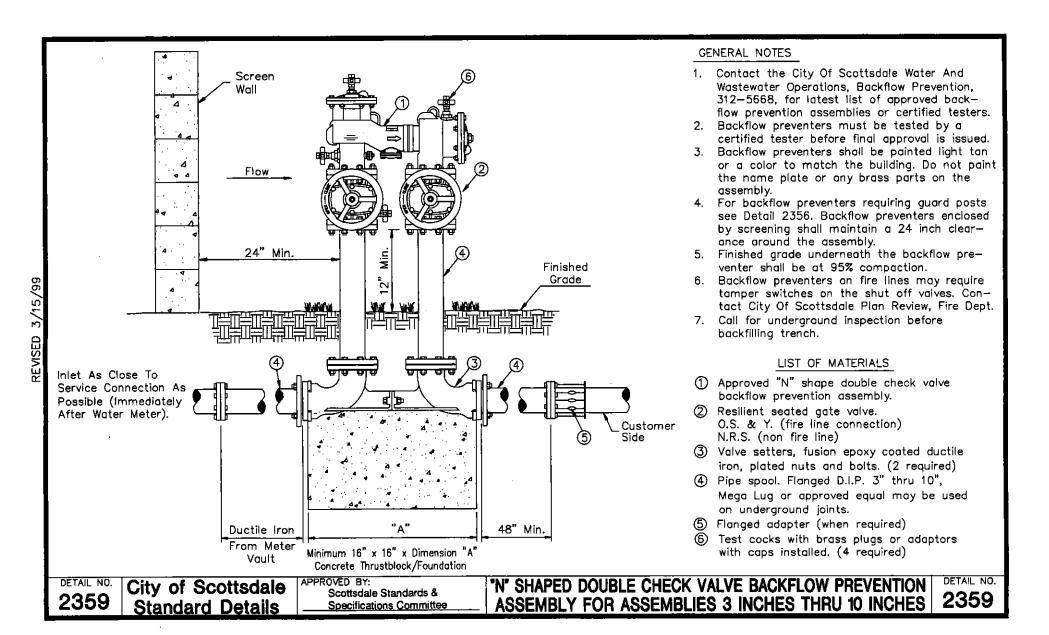
City of Scottsdale Standard Details APPROVED BY:

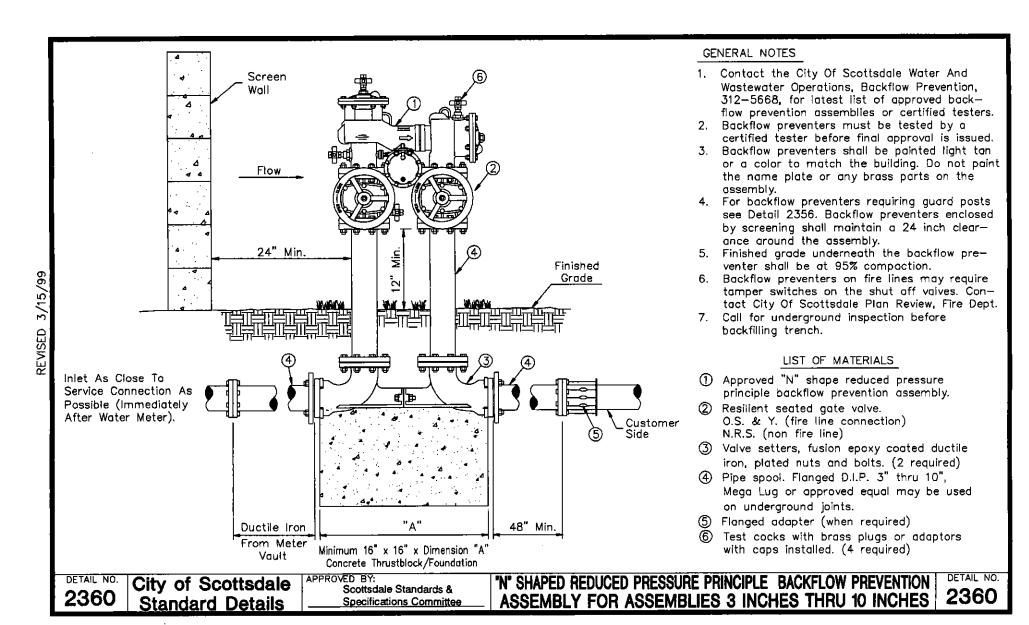
Scottsdale Standards & Specifications Committee PRESSURE VACUUM BREAKER ASSEMBLY FOR ASSEMBLIES 1/2 INCH THRU 2 INCHES

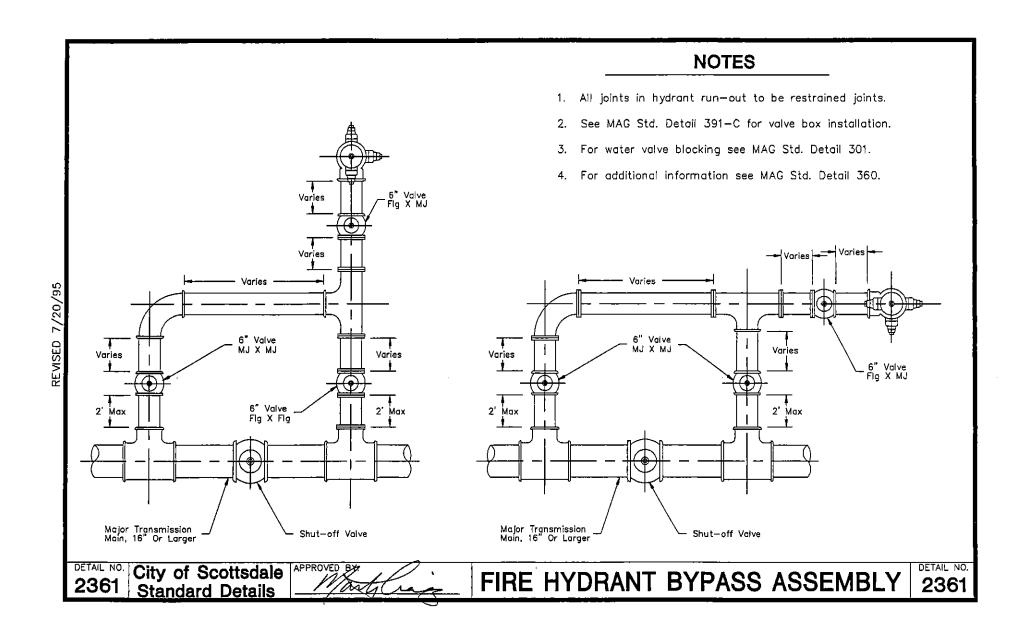


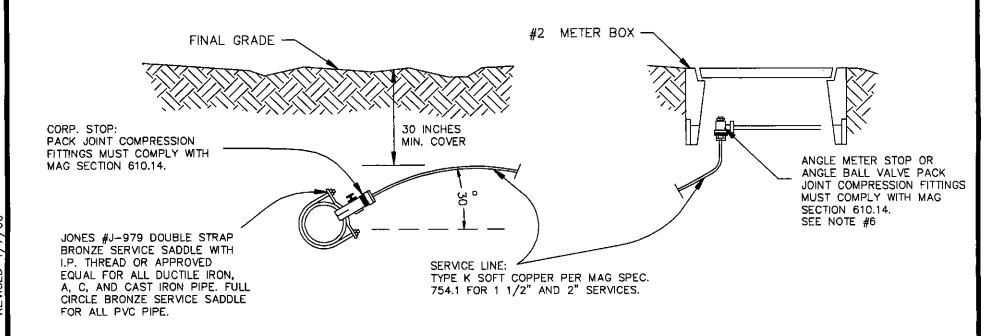
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NOTE:

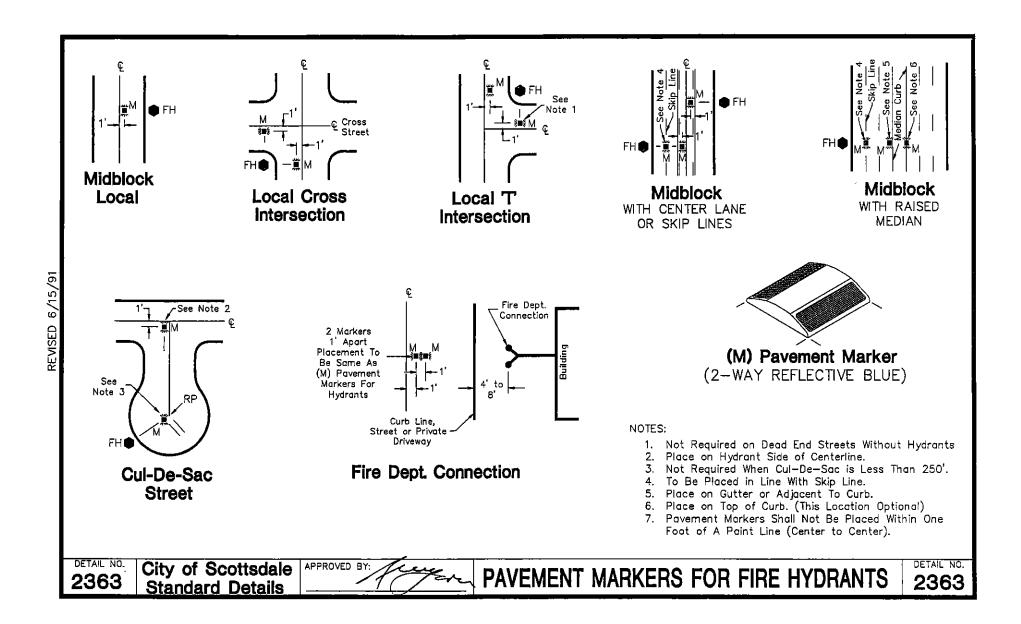
- 1. All taps must be made using a service saddle.
- 2. All service line sizes shall have the pack joint compression fittings for corp. stops and meter stops.
- 3. Where a contractor is installing new water lines, he shall also install the water service connection. The installation shall include the service saddle, corp. stop, service pipe, appurtenant fittings, meter stop, concrete meter box and box cover, per M.A.G. Specifications.
- 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.
- 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 connection.
- 6. Fire Department Identification Tag is required. Water resistant tag shall be affixed to valve in meter box and shall state: "DO NOT CLOSE! Fire Sprinkler Supply Line".

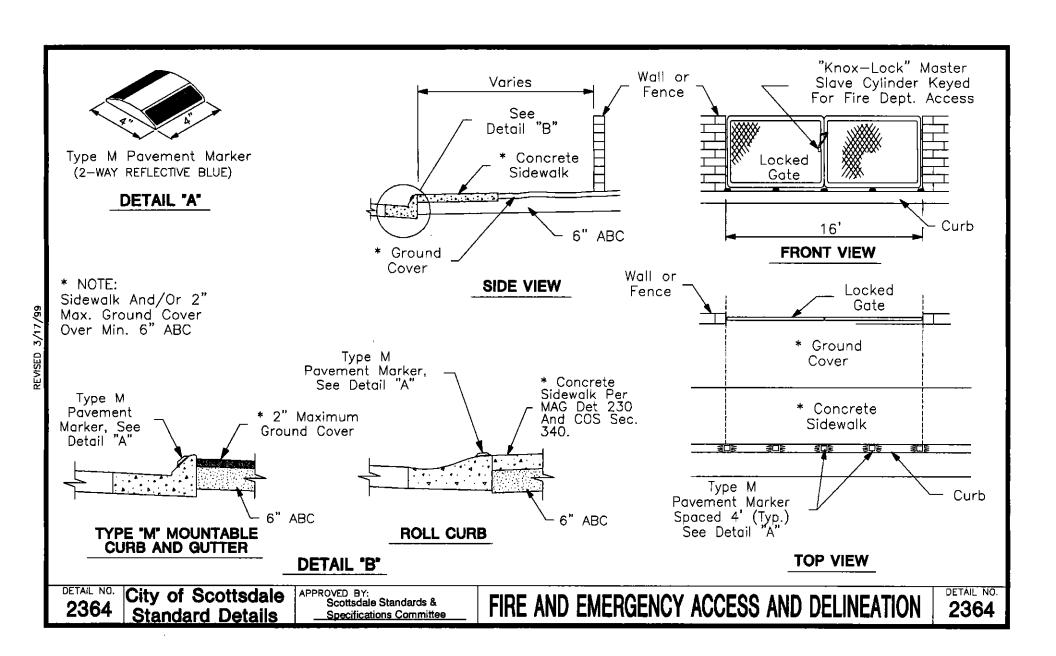
DETAIL NO

City of Scottsdale Standard Details

1 1/2" - 2" FIRE LINE CONNECTION

DETAIL NO.





NOTES:

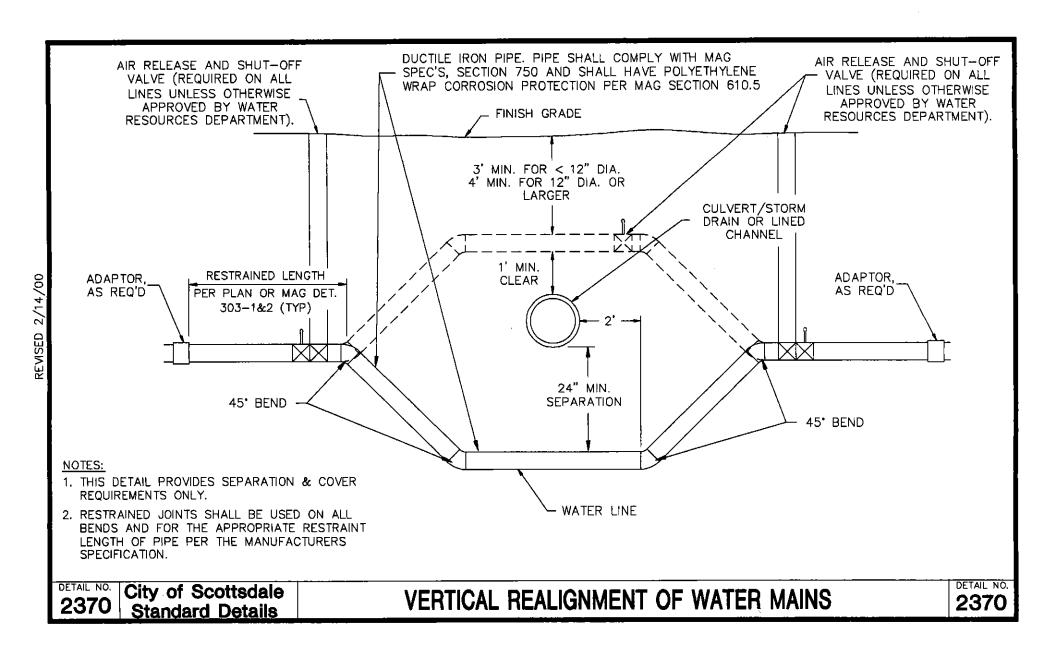
- 1. At the beginning and end of the fire lane, the sign shall have a single headed arrow pointing in the direction the regulation is in effect. The intermediate signs shall have double headed arrows pointing in both directions.
- 2. The maximum spacing of the signs shall be 100', contingent upon Traffic 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.

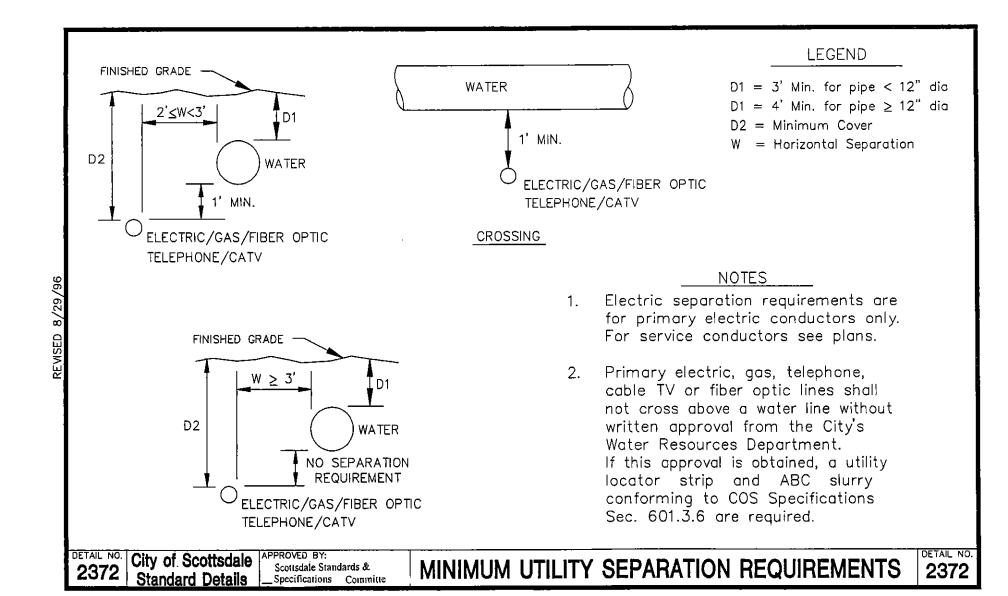
DETAIL NO. 2365

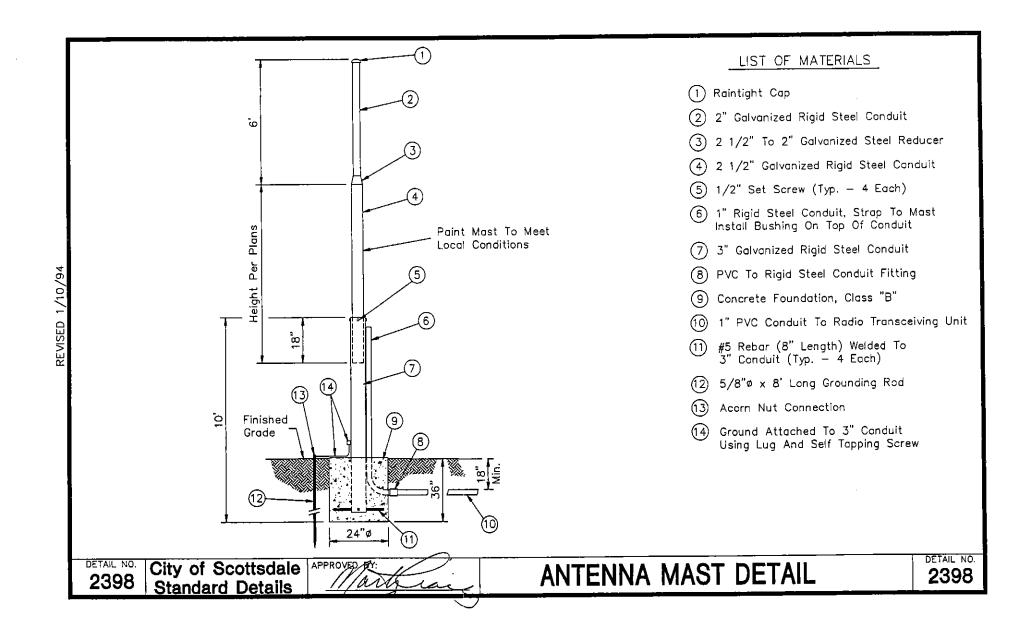
City of Scottsdale Standard Details

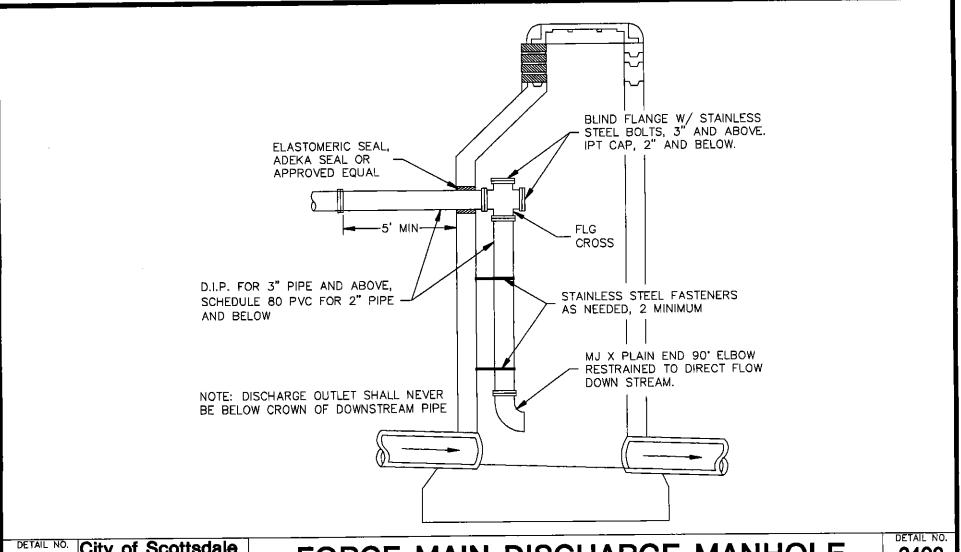
FIRE LANE SIGN

DETAIL NO.



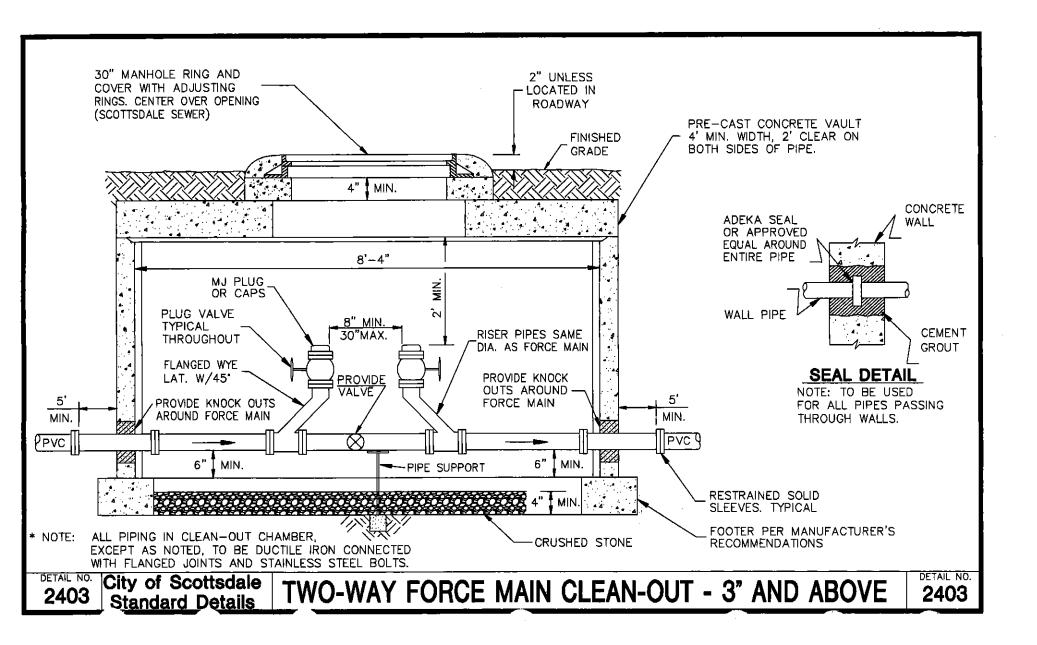


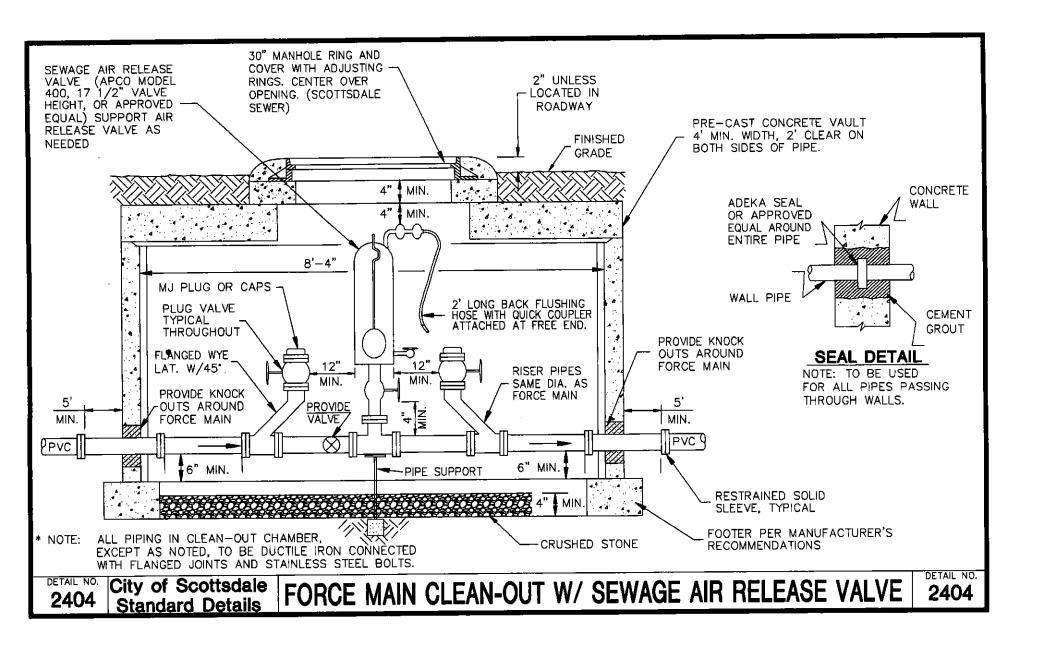


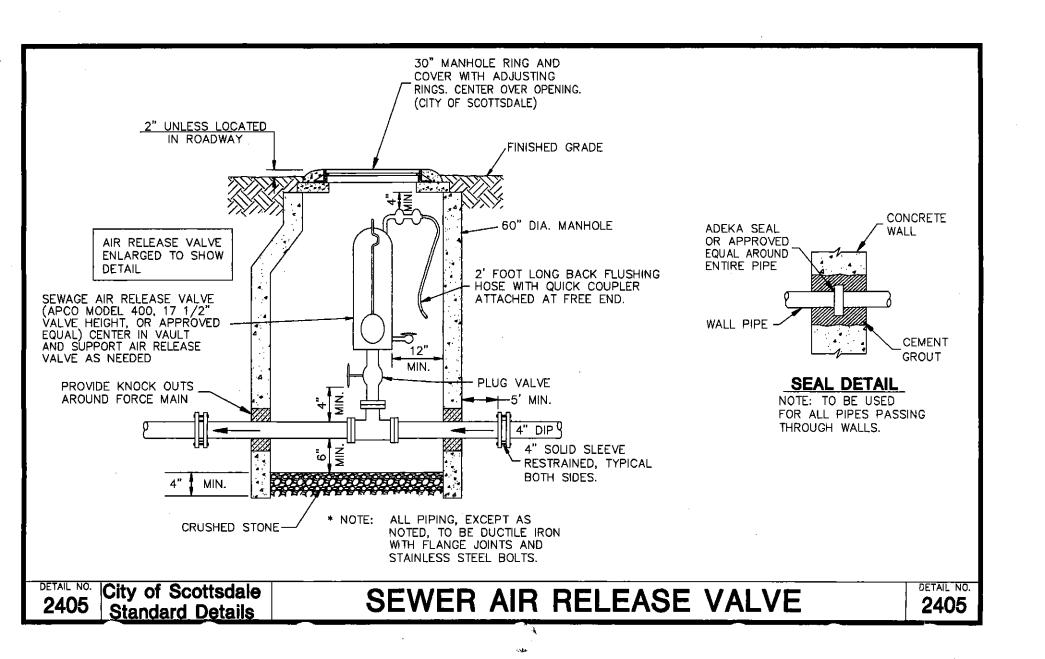


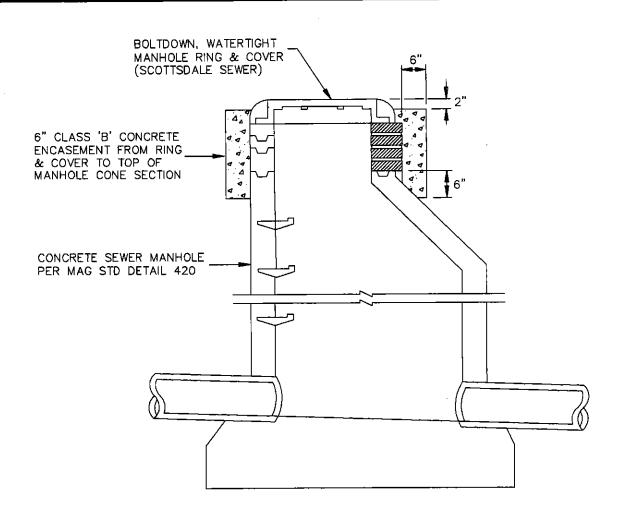
City of Scottsdale Standard Details

FORCE MAIN DISCHARGE MANHOLE

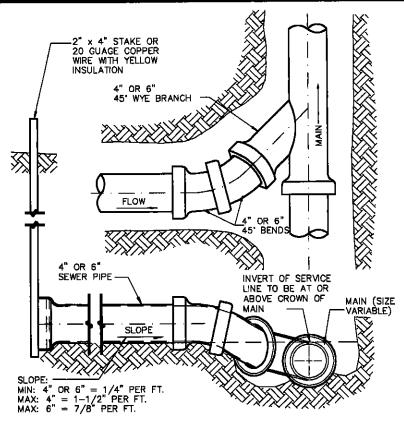








City of Scottsdale Standard Details



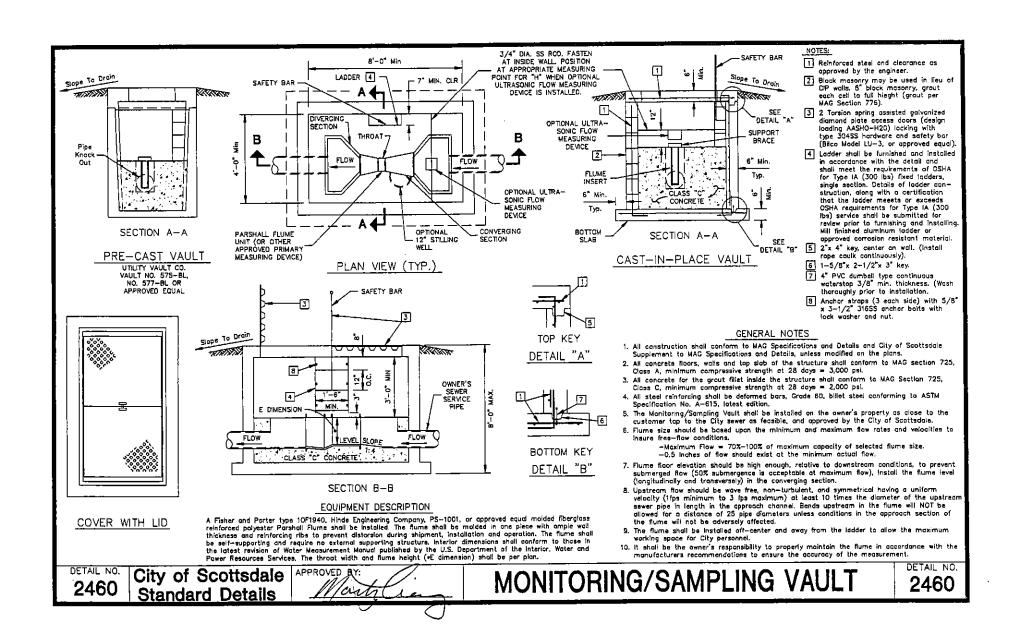
- CONSTRUCTION DETAIL APPLIES WHERE CONTRACTOR BUILDS HOUSE CONNECTION. TAP EXTENDS TO PROPERTY LINE IN ALLEYS OR STREETS OR TO EASEMENT LINE.
- 2. SIZE OF TAP SHALL BE DESIGNATED ON PLANS.
- 3. CONSTRUCT TAP AT MINIMUM SLOPE IF COVER WILL BE LESS THAN 5' AT PROPERTY LINE.
- 4. IF DEPTH REQUIRES, MINIMUM SLOPE CAN BE REDUCED TO 1/8" PER FOOT PROVIDED STUB IS STAKED TO GRADE.

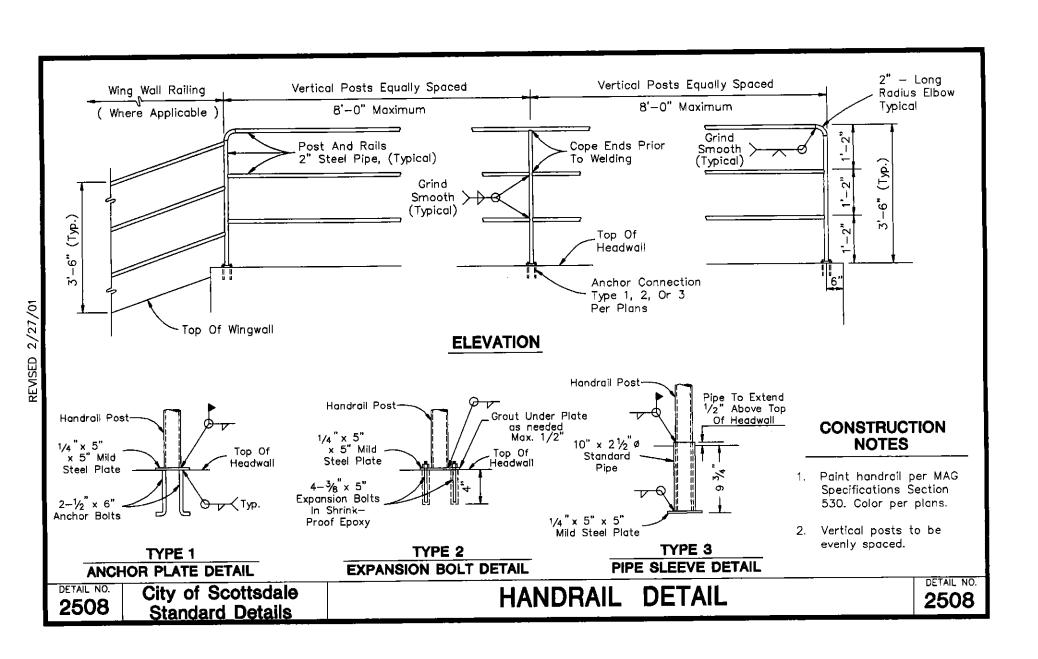
- 5. ALL FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D-2321. THE CONTRACTOR MAY VARY FROMTHE DRAWING TO USE THE APPROPRIATE WYES, TEE-WYES AND BENDS TO ENSURE NO MISALIGNMENT OF THE PIPE AND FITTINGS. BLOCK OR BRACE FITTING JOINTS TO ENSURE ZERO DEGREES ANGULAR JOINT DEFLECTION.
- 6. END OF TAP TO BE SEALED AND MARKED AS NOTED.

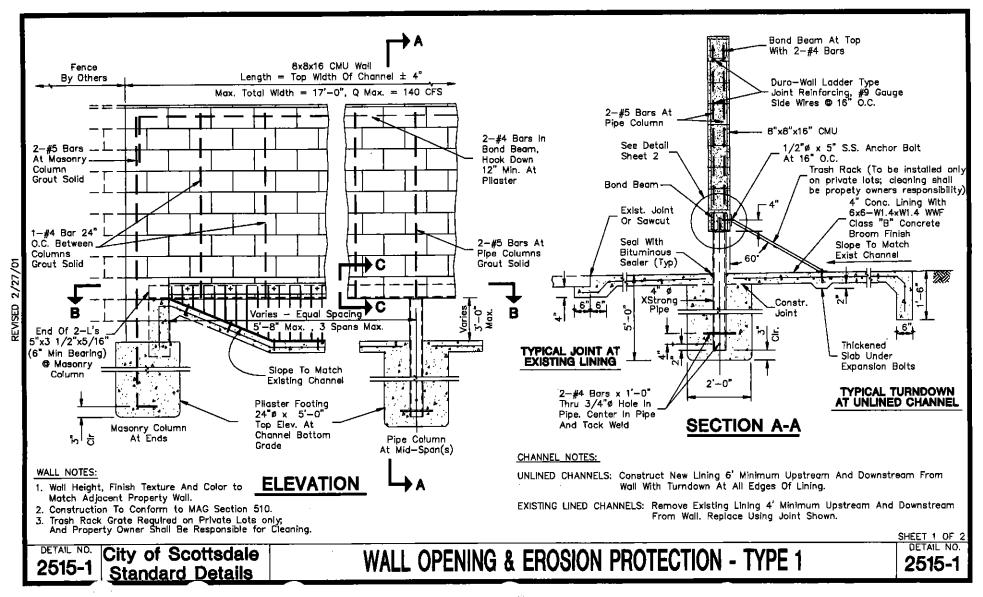
City of Scottsdale Standard Details

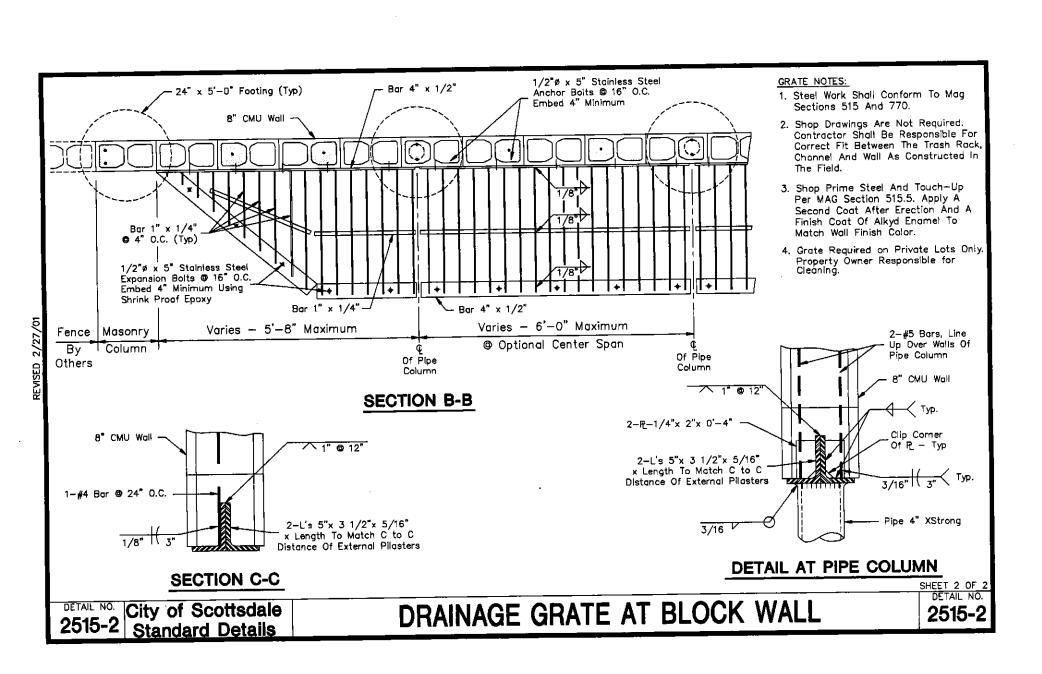
SEWER BUILDING CONNECTION

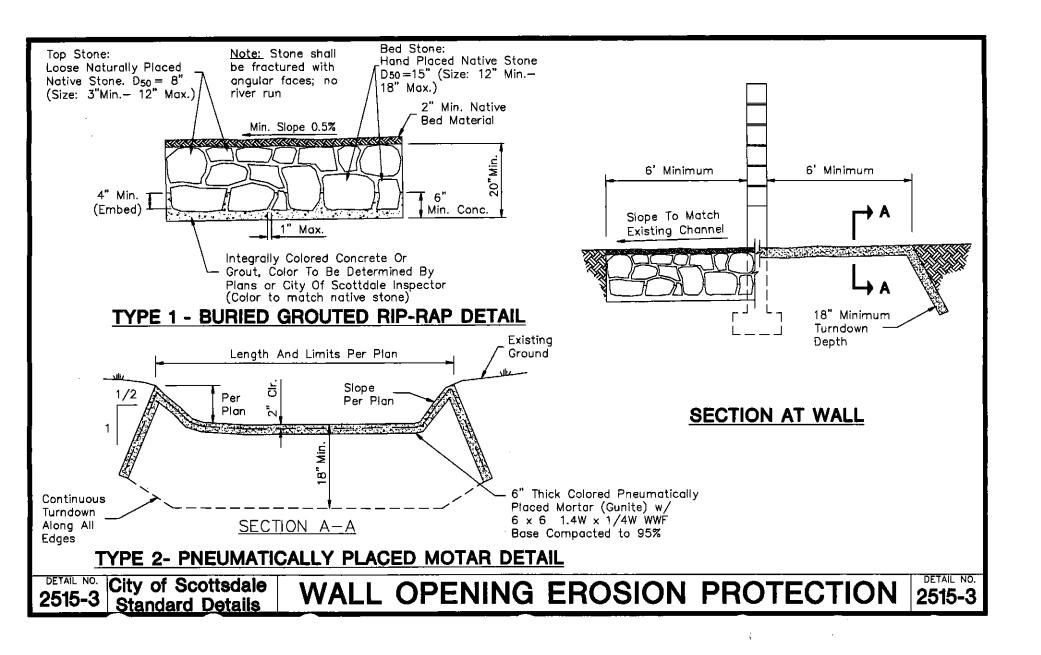
DETAIL NO.

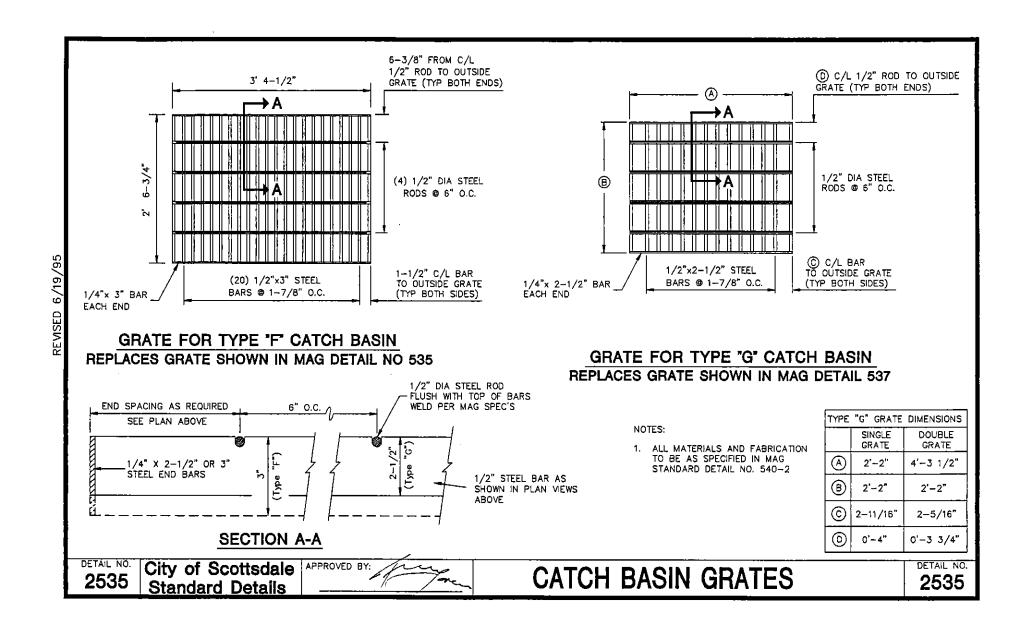


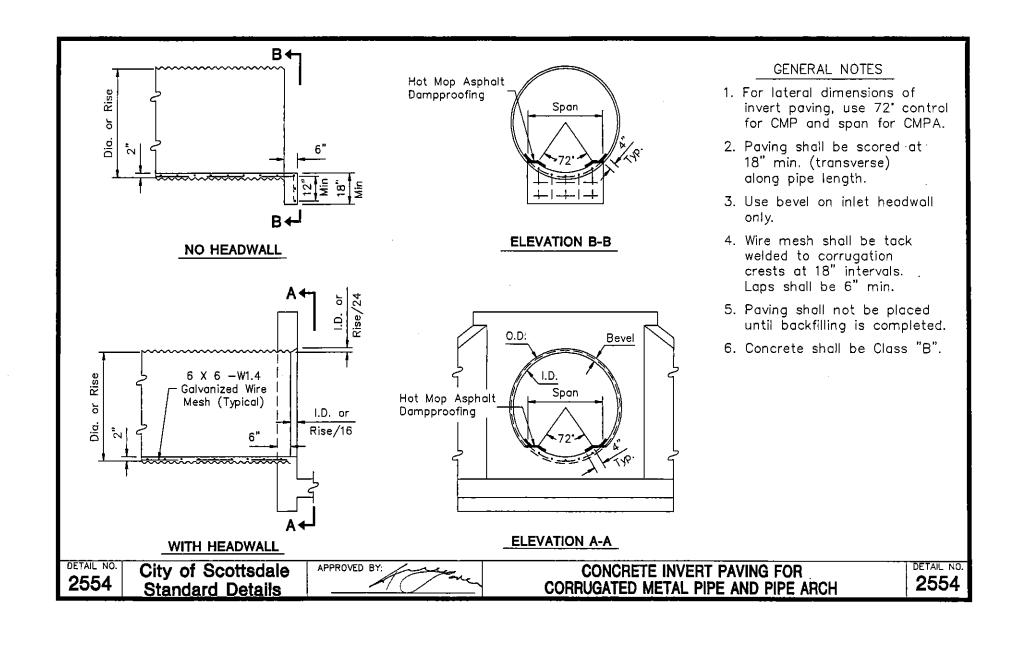


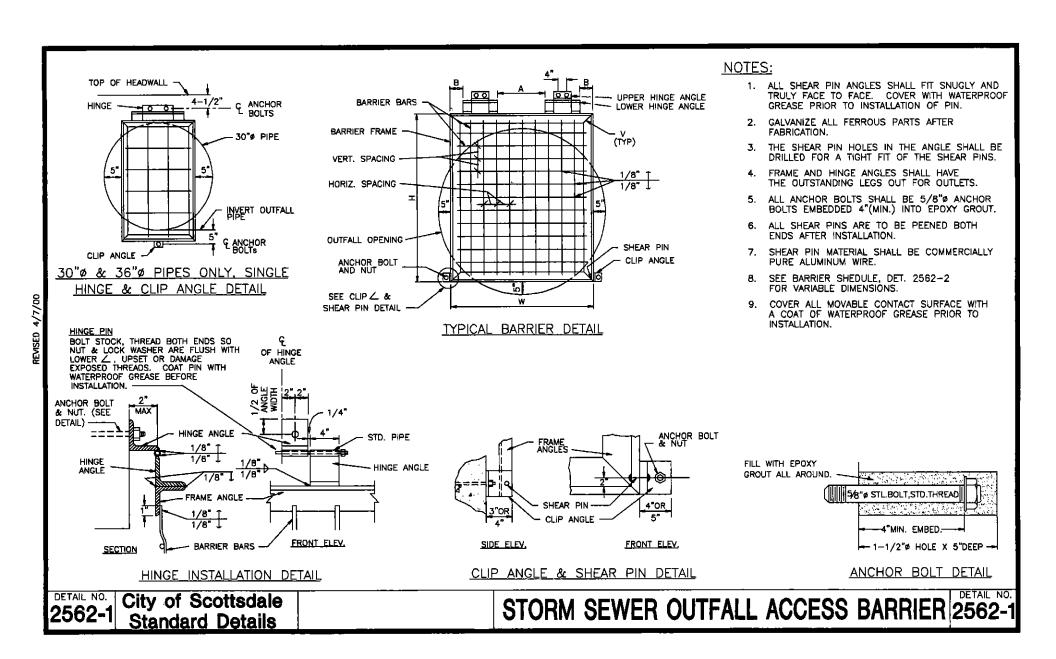












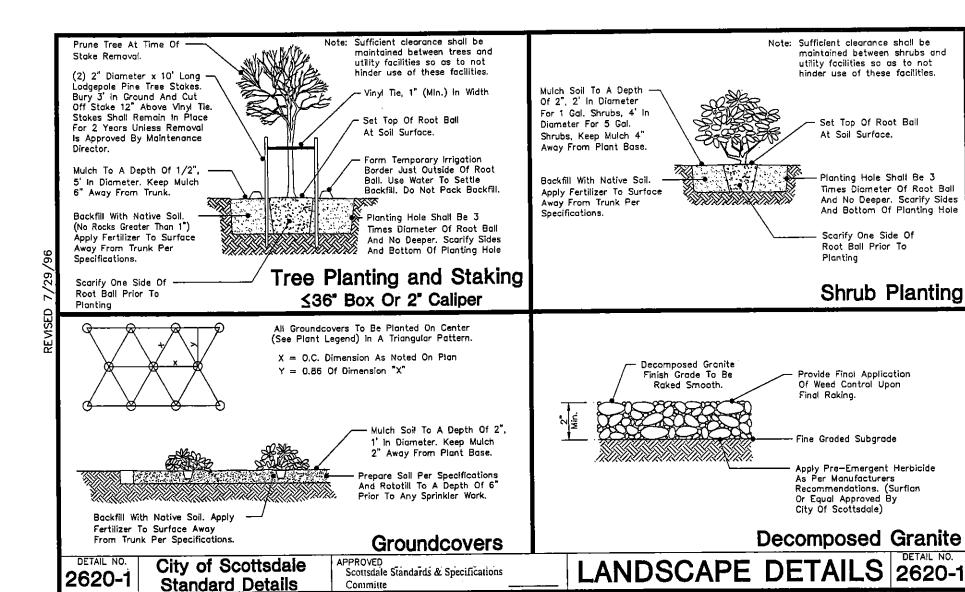
SIZE OF OUTFALL CONDUIT	FRAME ANGLES	SHEAR PIN CLIP ANGLES	SHEAR PINS	ANCHOR BOLTS	HINGE PINS	HINGE ANGLES	HINGE STD. PIPE	HINGE TO FRAME WELDS	ANGLE TO FRAME WELDS	BARRIER BARS PLAIN	NO. OF EQUAL BARRIER BAR SPACES (HORIZ.)	NO. OF EQUAL BARRIER BAR SPACES (VERT.)	H (OUT TO OUT FRAME ANGLES)	W (OUT TO OUT FRAME ANGLES)	A	В
30"	2X2X1/4	4X4X1/4	1-1/8ø	5/8ø	1/2"ø	2X2X1/4	3/4"	1/8	1/8	1/2"ø	3	5	34 ["]	20	SINGLE CENT	HINGE ERED
36"	2X2X1/4	4X4X1/4	1-1/8¢	5/8ø	3/4"ø	2-1/2X 2-1/2X1/4	t"	1/8	1/8	1/2"#	4	6	40"	25"	SINGLE CENT	HINGE ERED
42"	2X2X1/4	4X4X1/4	2→1/8ø	5/8ø	1/2"ø	2X2X1/4	3/4"	1/8	1/8	1/2"ø	5	6	42"	32"	0	o
48"	3X3X7/16	5X3X1/4	2-1/8ø	5/8ø	3/4"ø	2-1/2X 2-1/2X1/4	1"	1/8	1/8	1/2"ø	5	7	47"	38"	3″	1"
54"	3X3X7/16	5x3x1/4	2-1/8ø	5/8ø	3/4"ø	2-1/2X 2-1/2X1/4	1"	1/B	1/8	1/2"ø	6	8	54"	44"	5"	3"
60"	3X3X7/15	5X3X1/4	2-1/8ø	5/8ø	3/4"ø	2-1/2X 2-1/2X1/4	1"	1/8	1/8	1/2"ø	7	9	60"	50"	9"	4"
66"	3X3X7/16	5X3X1/4	2-1/8ø	5/8ø	3/4"ø	2-1/2X 2-1/2X1/4	1*	1/8	1/8	1/2"ø	8	10	66"	56"	117	6"
72"	4X4X5/8	5X3X1/4	2-3/16#	5/8ø	1 " ø	3X3X3/8	1-1/4"	1/8	1/8	1/2"ø	9	11	73"	62"	15*	7"
78"	4X4X5/B	5X3X1/4	2-3/16#	5/8ø	1"ø	3X3X3/8	1-1/4"	1/8	1/8	1/2"ø	10	11	79"	68"	17"	9"
84"	4X4X5/8	5X3X1/4	2-3/160	5/8ø	1*ø	3X3X3/8	1-1/4	1/8	1/8	1/2"ø	11	13	86"	74"	21"	10"
90"	4X4X5/8	5X3X1/4	2-3/160	5/8ø	1"ø	3X3X3/8	1-1/4	1/8	1/8	1/2"ø	12	13	92"	80"	23"	12"
96"	4X4X5/8	5X3X1/4	2-3/15¢	5/6ø	1°ø	3X3X3/8	1-1/4"	1/8	1/8	1/2"ø	12	14	98"	86"	29"	12*
DETAIL NO. 2562-2		of Sco			dale Sīandar	ds & Specific	eations	BARR	IER S	SPEC	IFICA	TION	s sc	HEDL	JLE 2	DETAIL NO. 2562-2

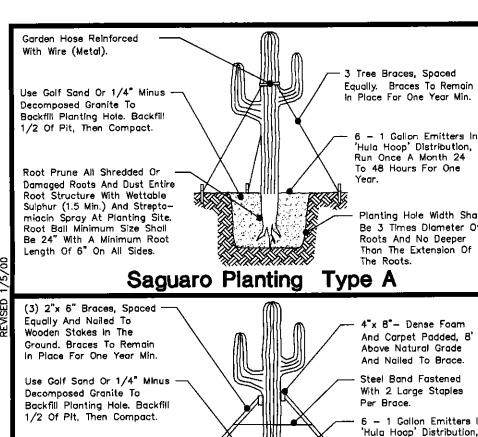
		_				-				MINIMUM	ΙT	RE	E S	SIZE	ΕF	REQUIREMENT	S				·				,
Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Catiper	N		Size	_	Width	Caliper	Name		Height	Width	Caliper
ACACIA	~	-			ACACIA (Cont.)	1	_			ARGENTINE MESQUITE	15	5	3	0.75	5 <u>V</u>		15	5.5	3	0.5	<u>SONORAN</u>	15	6	2	0.75
BLUE LEAF WATTLE	15	6	2	0.75	WEEPING	15	5	2	0.75	(M) (PROSOPIS ALBA)	24	8	5	1.25	5 (P		24	7	4	1_	(CERCIDIUM PRAECOX)	24	7	4	1.5
	24	_	4	1.5	(ACACIA PENDULA)	24	6,5	3	1.25		30	9	7	1.5	5		30	9	6	1,5	'	30	8	6	2
(ACACIA SALIGNA)	30	10	5	2	(ASASSA ENSSE)	30	9	5	2	1	36	11	9	2]		36	10	8	2]	36	10	8	2.5
	36	12	6	2.5	1	36	11	6	2.5	1	42	13	11	2.5	;		42	12	10	2.5]	42	11	10	
GERLANDER CHAIRLO	15		2	_	WILLOW \	15	6	2	0.75	1	48	15	13	3	3_		48	14	12	3		48	12	12	_
BERLANDER\ GUAJILLO	24	5	4	1	AUSTRALIAN WILLOW	24	8	4	1.5	MESQUITE (Cont.)			Τ		E	ALOVERDE					SONORAN (M)	15	5	2	0.5
(M) (ACACIA BERLANDIERI)	30	-	5	1,5	(ACACIA SALICINA)	30	10	5	2	CHILEAN MESQUITE	15	6	2	0.7	5 <u>B</u>	LUE PALO VERDE	15	6	2	0.75	(CERCIDIUM PRAECOX)	24	7	4	1.1
	36	9	6	2	(ACACIA DALLOITA)	36	14	-	2.5	(PROSOPIS CHILENSIS)	24	8	4	1,5	5 (0	CERCIDIUM FLORIDUM)	24	7.5	4	1.5		30	8	6	1.5
MULGA	15	5	2	_	1	1	Η̈́	1	Ť	1	30	9	6	2			30	9	7	2		36	10	8	2
(ACACIA ANEURA)	24	7	4	1.5	IRONWOOD	1	_				36	10	8	2.5	5		36	10	8	2.5	<u>}</u>	42	11	10	
(ACACIA ANEURA)	30	9	6	2	DESERT IRONWOOD	15	3	2	0.5	1	42	12	10	3			42	12	9	3		48	12	12	3
	36	10	a	2.5	(OLNEYA TESOTA)	24	6	3	1.25	1	48	14	12	3.5	5		48	14	10	3.5	OTHER TREES	L			↓
SHOESTRING	15	7	2.5	0.75	1	30	8	6	2	CHILEAN MESQUITE (M)	15	5	3	0,5	5 <u>B</u>	LUE PALO VERDE (M)	15	5	3	0.5	AFRICAN SUMAC	15	7	2	
(ACACIA STENOPHYLLA)	24	9	4	1,5	†	36	10	B	2.5	(PROSOPIS CHILENSIS)	24	8	5	1	(c	CERCIDIUM FLORIDUM)	24	7	4	1	(RHUS LANCEA)	24	9	4	1.25
(ACACIA STEROPHTELA)	30	11	5	2	1	42	11	9	3	1`	30	9	7	1.5	5		30	8	6	1.5	j	30	11	6	+
	36	13	6	2.5	†	48	12	10	3.5	1	36	10	9	. 2			36	10	8	2		36	12	8	2.5
	42	15	7	3	DESERT IRONWOOD (M			2	0.5		42		11	2.5	5		42	12	9	2.5		42	14	8	3.5
	48	17	8	1 4	(OLNEYA TESOTA)	24	+	3	1.25		48	14	13	3	\Box		48	14	11	3	<u>l</u>	48	15	9	1.4
CHOESTEINIC (M)	15		2.5	+	TOURIS ILEGOIA,	30	В	6	2	HONEY MESQUITE (M)	15	6	2	0.7	′5 <u>L</u>	ITTLE LEAF\FOOTHILLS	15	4	2	0.5	AFRICAN SUMAC (M)	15	5	3	-
SHOESTRING (M)	24	9	4	1	-	36	10	+-	2.5	(PROSOPIS -	24	8	4	1.5	5 (¢	CERCIDIUM -	24	6	3	1	(RHUS LANCEA)	24	8	4.5	1
(ACACIA STENOPHYLLA)	36	+	6	2		42	11	1 9	3	GLANDULOSA)	30		6	2	. N	MICROPHYLLUM)	8	7	5	1.5		30	9	7	1.5
OLVECT	15	-	2.5	+	-	48	+	-	+		36	10	8	2.5	5		36	8	6	2		36	11	8	2
SWEET .	24	l a	4.3	1.5	MESQUITE	+~	┿	 	1		42	12	10	3	1	ITTLE LEAF\ FOOTHILLS	15	4	3	0.5		42	13	9	2.5
(ACACIA SMALLII)		9	6	2		15	6.5	2	0,75	1	48		12	3.	5 (r	M) (CERCIDIUM -	24	5	4	1]	48	16	10	
	30	10	8	2.5	7	24		1	1.5	SCREW BEAN (M)	15	5,5	3	0.8	_	/ICROPHYLLUM M)	30	6	5	1.5	<u>ALEPPO</u>	15	6	3	0.79
	36	-	10	3	(PROSOPIS ALBA)	30		1 6	2	(PROSOPIS -	24	_	4	1	\sqcap		36	В	7	2	(PINUS HALEPENSIS)	24	9	4	2
	42	-	+	3.5	-	36		+-	2.5	PUBESCENS)	30		6	1.5	5			П	Ī.			30	11	6	3
	48	14	12	_	-1	42	+	+	+	1 00000000	36	_	-	_	_			П		Ī	1	36	14	7	3.5
SWEET (M)	15		3	0.5	4		15	_		1	42	-	_		_			1 1			7	42	16	9	4
(ACACIA SMALLII)	24	-	5	1	4	<u> </u>	1,3	 ''	1 3.5	4	48		+	_	5		Г	\Box	_		7	48	18	10	4.5
1	30	9	7	1.5	-	\vdash	╁	+	+-	=	۳	+	+	1-	╗			1		\vdash	1		Γ	П	Т
	36	10	-	2		-	+	+	+	-	\vdash	┿	+	+-	┪						1			Г	1
	42		10		See General Notes	-	+	╫╌	+	┪	┢	\dagger	†-	1	\neg			1		T^-	Page 1 of 3		1		
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DETAIL NO.	(it)۔	/ 01	Sc	ottsdale APPROV	ED BY	Fånd	arde	N.								_					1			
2600-1		Sta	anc	iarc	Details Specific			-		MINIM	U	M	T	R	ΕI	E SIZE RE		<u> </u>	(F	₹E	MENTS	2	60	00	<u>-1</u>

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			_			Ì	IIN	ML	M T	REE SIZE REQU	JIR	ΕN	ΙΕΙ	NTS	<u> </u>									_	
Name	Size	Height	Width	Caliper	Name	9	Haidht	Width	Caliper	Name	Size	Height	Width	Caliper	.	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper
ARIZONA ASH	15		2		Canary Island Pine		5 6	_	0.79	COOLIBAH	15		3	0.7	5 [EATHER BUSH	15	5	3	0.75	JACARANDA	15	8	2	0.75
(FRAXINUS VELUTINA)	24	10	4		(Pinus Canariensis)) [2	4 9	4	2	(EUCALYPTUS -	24	10	4	1.5	<u> </u>	ERN OF THE DESERT	24	6.5	4	1.25	(JACARANDA ACUTIFOLIA)	24	9	4	1.5
v · · · · · · · ,	30	12	5	2	,	_	0 1	3 5	3.5	MICROTHECA)	30	12	5	_2]	LYSILOMA THORNBERI)	30	7	6.5	2		30	12	5	2.5
	36	$\overline{}$	8	2.5		[3	6 1	7 5	4	1	36	15	6	2.5			36	8	6	2.5]	36	14	В	3
	42	15	9	3		7	2 1	3 6	4.5	CORK OAK	15	4	2	0.7	5 <u>[</u>	EATHER BUSH\ FERN	15	4	3	0,75		42	16	8	3.5
	48	16	10	3.5			8 2	2 7	5.5	(QUERCUS SUBER)	24	6,5	3	1.5	ᡚ.	OF THE DESERT(M)	24	-	5	1		48	18	9	4
ARIZONA SYCAMORE	15	7	2	1	CAROB	1	5 1	2	0.75		30	9	4.5	2.	<u></u>	LYSILOMA THORNBERI)	30	7	7	1.5	JACARANDA (M)	15	5.5	3	0.5
(PLATANUS WRIGHTII)	24	9	4	1.5	(CERATONIA SILQUA)	7	4 !	4	1.5]	36	12	6	3.5	5		36	6	8	2	(JACARANDA-	24	8	5	0.75
	30	13	6	2.5		3	0 1	5 5	2		42	14	9	4	_ !	<u>icus</u>	15	_	2	0.75	ACUTIFOLIA)	30	10	6	1.5
	36	16	8	3.5		3	6 1	2 5	3	<u> </u>	48				-1	(FICUS NITIDA)	24	9	1 4	1.5		36	12	7	_2_
ARIZONA SYCAMORE(M)	15	6	3	0.5	CHASTE TREE			3	0.78	CORRAL GUM	15	-	2.5	-	_		30	10	-	2	LEMON BOTTLE BRUSH	15	8	2	0.75
(PLATANUS WRIGHTII)	24	8	4	1	(VITEX ANGUS-CASTUS)	_	4 (4	1.2	(EUCALYPTUS TORQUATA)	24	-	3.5	_	-		36	12	_	3	(CALLISTEMON CITRINUS)	24	9	4	1.25
	30	12	7	2		_	10	5	2	DESERT WILLOW	15	-	2		—,	FICUS .	15	+	+	0.5		30	10	5	2
	36	15	9	3		_	16			~	24	-	4	_		(FICUS NITIDA M)	24	8	4	1		36	12	6	2.75
AUSTRALIAN WILLOW	15	5	_	0.75	CHINESE EVERGREEN	_	5			-	30		6	_	_		30	10	-	2	MEDITERANEAN FAN	15	2	2	NVA
WILGA	24	8	$\overline{}$	1.25	ELM	_	_	3	1.2		36	-	+		_		36		-	2.5	PALM	24	3	3	AVA AVA
(GEIJERA PARVIFLORA)	30		5	2	(ULMUS PARVIFOLIA)	_		2 6	-	DESERT WILLOW (M)	15	_	3	_	┛.	FLOODED GUM	15		3	1	(CHAMAEROPS HUMULIS)	36	5	5	N/A
	36	\rightarrow	5.5	2.5	Į	_	36 1		-	⊣` '	24	-	5		_	(EUCALYPTUS RUDIS)	24	_	2.5	1.5	MECCAL DEAD TEXAS	15	3	1	0.75
BOTTLE TREE	15	_	2	1.5	Į	_	2 1			_	30	_	6	_	_	FLOWERING CHERRY	15 24		4	0.75 1.25		24	4	2	1
(BRACHYCHITON -	24	9	4	2.5				8 10	+		36		+	- -	_	(PRUNUS VARIETIES)	30		+-	2	(SOPHORA -	30	5	3	1.75
POPULNEUS)	30		5	4	CHINESE PISTACHE	_		/ 2	_		15	+	2	_	_		36	-	+-	2.5	SECUNDIFLORA)	36	6	4	2
	36	_	6	5	(PISTACIA CHINENSIS)			4		⊣' ′	30		4—	┵	_		42			3	MESCAL BEAN TEXAS	15	3	<u> </u>	0.75
	42	_	8	6	-	_		0 5	_	_	36	_	-	-+	-		48	_	-	3.5	MOUNTAIN LAUREL (M)	24	4	3	1
	48	_	9	6.5			_	2 6	_	4	42	_	-	-	$\overline{}$	HONEY LOCUST	15		2	0.75		30	5	4	1.5
BRAZILIAN PEPPER	15	8	2	0.75				3 4	1 2	4	48	_	_		_	(GLEDITSIA TRIACANTHOS	24		4	1.5	(SECUNDIFLORA)	36	6	5	2
(SCHINUS -	24 30	9	5	1.25 2.5	LONG LEAF (PINUS ROXBURGHII)	_	30 1	_	_	EVERGREEN PEAR	15	_	1 2	_	_	NERMIS)	30		4	2	MEXICAN PALO VERDE	15	17	3	1
TEREBINTHIFOLLA)	36	12	ੂ 8	3	(PINUS KUXBUKGIIII)	1		5 6.	-		24	_	1 4		-	nechaelo)	36	_	+-	2.5	JERUSALEM	24	9	6	1.5
CALIFORNIA PEPPER	15	7	2	0.75		_	_	7 8	+	⊣ `	30	_	-		_		42	_	_	3	(PARKINSONIA ACULEATA)	30	11	9	2.5
	24	8	4	1.25	1		_	0 9		┥	36	_	-	—	_		48	_	-	3,5	1	36	12	10	3
(SCHINUS MOLLE)	30	10	6	2.5	1	F	~ +'	- -	╅	7	42	_	+	_	_		\Box	T	1	 	1			1	
ł	36	12	В	3	See General Note	_{es} H	+	+	+	1	48	_	-		_			T			1		1		\Box
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DETAIL NO.	1	ity	of	Sc	ottsdale APPRO	OVĘQ I	BY:		- 0.														DET	AIL N	Ю.
2600-2	i	-			Details Scott					MINIM	П	M	Т	'RI	F	E SIZE RI	=0)l	JIF	₹E	MENTS	2	60	00.	-2

										MINIMUM TR	EE	SIZ	ZΕ	RE	QUIREMENTS									
Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Catiper					
MODESTO ASH	15	8	2	1	RAYWOOD ASH\	15	8	4	_1	SILK TREE MIMOSA (M)	15	5	3.5	0.5	SILK TREE MIMOSA	15	6		0.75		<u> </u>			<u> </u>
(FRAXINUS V MODESTO)	24	10	4	1.5	CLARET ASH	24	10	3	1.5	(ALBIZIA JULIBRISSIA)	24	6.5	5	0.75	(ALBISIA JULIBRISSIN)	24	8	4	1.5		┝╼┼	-		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	30	12	6	2	(FRAXINUS O RAYWOODII)	30	12	5	2		30	6	6	_1_		30	10	6	_2_		┝╌┼	\dashv		
i	36	14	7	2.5	1	36	14	8	2.5		36	10	8	2.5		36	12	В	3	i	\vdash	_		<u> </u>
	42	16	8	3	1	42	16	10	3	SILVER DOLLAR GUM	15	7	3	_	TEXAS EBONY (M)	15	4	2	0.5		╌┼	_		₩
	48	17	10	3.5	1	48	18	12	4	(EUCALYPTUS-	24	10	4	1.5	(PITHECELLUBIUM-	24	6	4	1	; !	\vdash	_		 —
NARROW LEAF GIMLET	15	6	2.5	0.75	RED CAP GUM	15	6.5	2.4	0.75	POLYANTHEMOS)			_		FLEXICAULE)	30	7	6	1.5	¦ '	\vdash	_		₩
SWAMP MALLET	24	8	3	1	(EUCALYPTUS-	24	8	4	1,25	sissoo	15	7	-	0.75		36	9	В	2		┝╼┼	\dashv		├
(EUCALYPTUS -					ERYTHROCORYES)					(DALBERGIA SISSOO)	24	10	4			42	10	10	2.5		┝┵			├
SPATHULATA)					RED GUM	15	В	3	1_1_	1	30	12	7	2.5		48	11	11	3			\dashv		┼─
OLEANDER	15	7	2	0.75	(EUCALYPTUS-	24	10	4	1.75		36	15	10	3	WEEPING BOTTLE	15	10	3.5	0.75		$\vdash\vdash$			├
(NERIUM OLEANDER)	24	9	4	1.25	CAMALDULENSIS)	\Box			<u> </u>	SOUTHERN LIVE OAK	15	6	2	_		24			1,5		\vdash			₩
	30	10	5	2	RED IRON BARK	15	8	3	0.75		24	9	4	1.25	(CALLISTEMON VIMINALIS)	30	12	7	25		⊣	-		⊢
	36	12	6	2.5	ŒUCALYPTUS -	24	10	4	1.5	(QUERCUS VIRGINIANA)	30	11	6.5		Land to the same of the same	36 15		2	72	į	\vdash	-		╁
OLIVE TREE	15	5	3	0.5	SIDEROXYLON)	'			<u> </u>	₫	36	13	8	2.75		24	_	4	1.5	1	\vdash	_	_	┰
(OLEA EUROPAEA)	24	В	5.5	1.5	RIO GRANDE\ FAN	15	7	2	+		42	15	10		(SALIX BABYLONICA)	30	_	6	2.5	1	\vdash	_	_	\vdash
	30	11	9	2	TEXAS ASH	24	9	4	1.25		48	17 5	12	4.5 0.75		36		8	4	1	\vdash			\vdash
	36	12	10	3	(FRAXINUS V FANTEX)	30	12	5	2	TEXAS EBONY	15	6	3	1.5	WHITE IRON BARK	_			0.75	1	Н	_	-	一
	42			3.5	_	36	14	8	2.5	(PITHECELLOBIUM-	30	7	4	2	(EUCALYPTUS -	_	8	3.5		ĺ	\vdash			一
	48	16	14	4	_	42	15	9		FLEXICAULE)	36	9	6		LEUCOXYLON)		ήŤ	3.3	1.25	1	H		_	┼──
ORCHID TREE	15	8	2	0.75		48 15	16 8	10	4	-	42	10	1 6	3	YELLOW OLEANDER	15	6	2	0.5		П			T
(BAUHINIA)	24	9	4_	1.25			10	4	1.5	4	48	11	7	3.5	(THEVETIA PÉRUVIANA)	24	_	4	1.25	1			_	\vdash
<u>, </u>	30	11	6	2	(FRAXINUS UHDEI)	_	_	5	_	-{	1	-	H		YELLOW OLEANDER(M)	15		3.5	_	1	\Box			1
	36	13	7	2.5	4	36	14	8	3	1	\vdash		╁─		(THEVETIA PERUVIANA)	24		5	0.75	1	П			\vdash
ORNAMENTAL PEAR	15	7	2	1	4	42	15	9	3.5	1	-	\vdash	\vdash	┼~	1	Ë	+	Ť	1	1				1
(PYRUS CALLERYANA)	24	10	3.5	1.5	-	48	16	10	_	 		Ц—		<u> </u>	GENERAL NOTES	<u>.</u>		_	•					
1	30 36	12	6 8	2.5	SILK OAK	15	8	3	1	 														
	$\overline{}$	14				24		4	1 · ·	1 All trees sha	l be	oua	rant	eed f	or one year from the da	te o	facc	epta	nce					
	42	16 18	10	3.5	(GREVILLEA ROBUSTA)	30	12	6	2.5	2 "M" designat	esa	mul	titru	nk tre	e. A multitrunk tree is a	tre	e wit	h mo	ore tha	an one main trunk.				
i	48	18	12	4	-{		14			3 Caliner is me	easu	ed :	at 12	2" abo	ove the ground for trees	wit	h cai	iper	greate	er than 4". For multitrur	nk tre	es,		
	\vdash	_	\vdash	⊢-	4	130	 	ť	ᡰᢅ	and trees w	ith c	alip	er of	less	that 4", the caliper is m	eas	ured	6" a	bove	the ground.				
	├-			├ -	┥		\vdash	\vdash	+-	4. Size is listed	as t	ie b	OX 5	ize ir	inches except for thos	e tre	es i	115	gallor	n containers.				
1	_			\vdash	Page 3 of 3	\vdash	 	+	t	1	•	_			•									
·	+			<u> </u>			_	_	-	 											-	DETA		0
DETAIL NO.	10	ity	Οſ	20	ottsdale APPROVE			ards	St.			_	_											
2600-3	S	tan	da	rd I	Details Commi					MINIM	<u>Ul</u>	<u>VI</u>	T	RE	E SIZE RI	=(JL	IJF	₹E	MENTS	2	60	0	<u>-3</u>





NOTES:

1. Optimum transplanting season is October thru November.

2. Maintain orlainal 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.

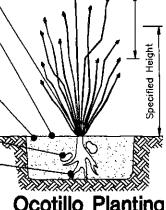
Plant At Depth Which Plant Was Grown.

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

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

Use 6" to 8" Rocks To-Anchor Roots.

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



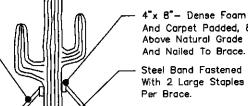
Avg. of 75% of Taller Canes

NOTE: Water weekly through the summer.

Ocotillo Planting

Type A

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



And Carpet Padded, 8' Above Natural Grade And Nailed To Brace.

Planting Hole Width Shall

Be 3 Times Diameter Of

Roots And No Deeper

The Roots.

Than The Extension Of

Steel Band Fastened With 2 Large Staples

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.
- 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.

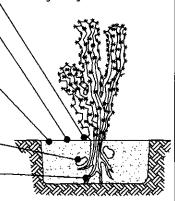
Planting Mix To Be 1/3 -Golf Sand And 2/3 Specified Soil, Pack The Backfill Mix. Do Not Use Water To Settle Backfill Mix.

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 mln.) At Planting Site.

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



Cactus Planting

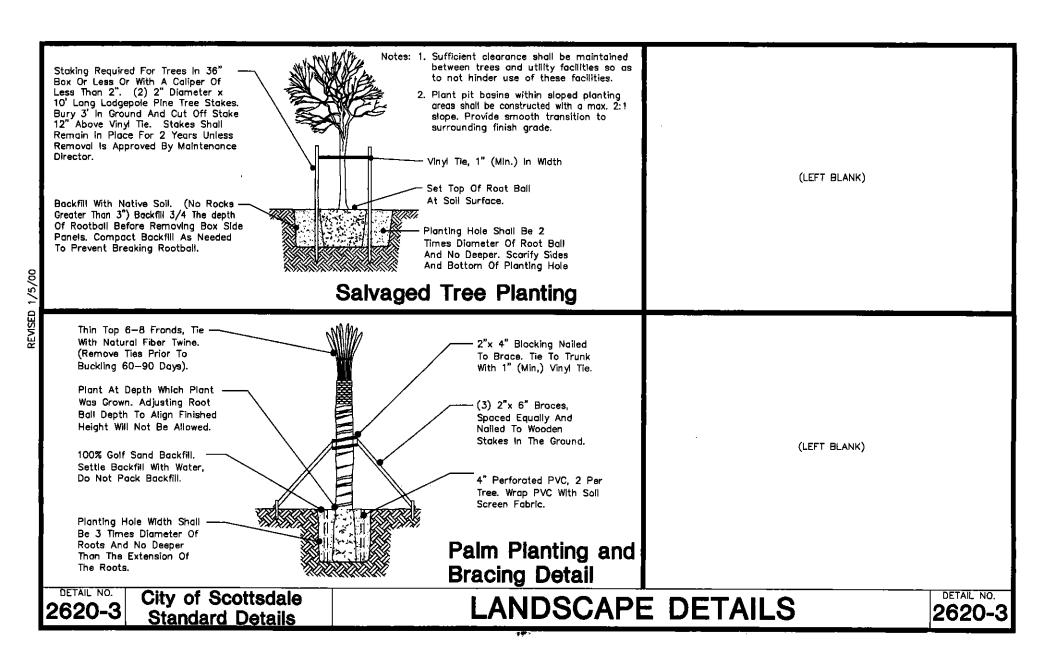
DETAIL NO.

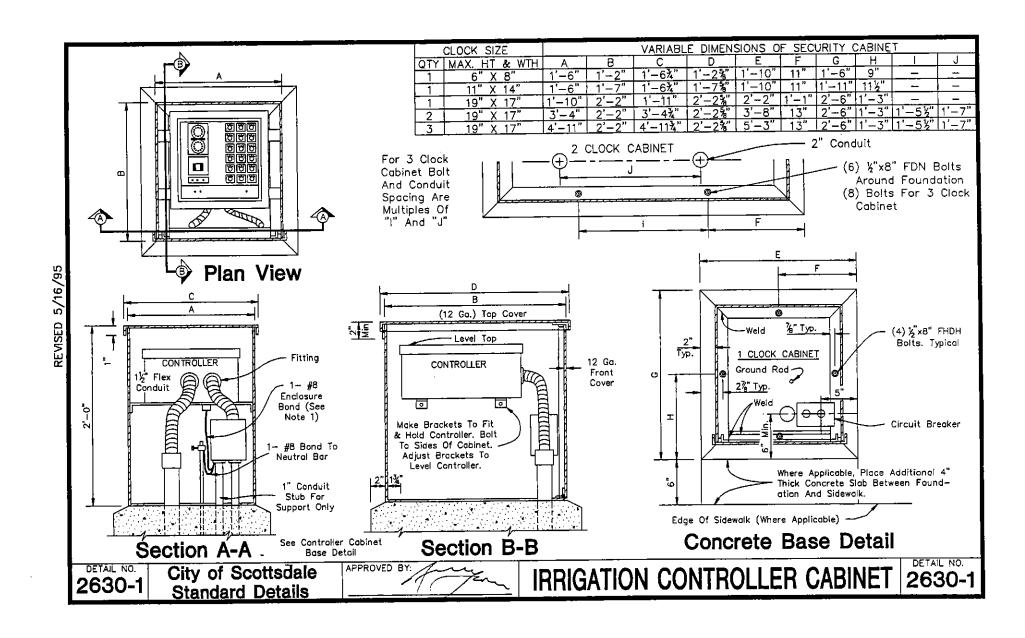
Saguaro Planting Type B

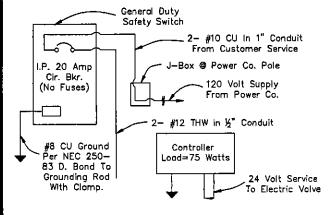
DETAIL NO.



LANDSCAPE DETAILS



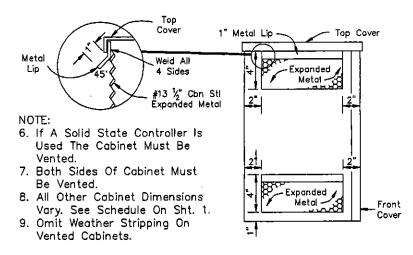


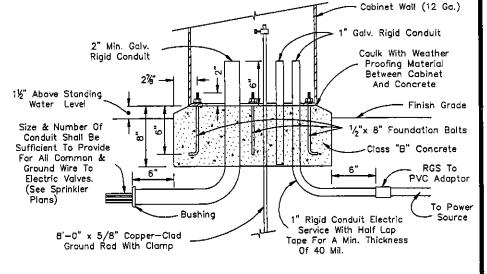


NOTES:

- 1. Hardwire Circuit From Panel To Controller.
- 2. All Circuit Breakers 10,000 AIC
- 3. Locate All Components Inside Controller Cabinet.
- Location Of Conduits And Ground Rod Shall Vary According To Type Of Circuit Breaker. Contractor Shall Determine Proper Location.
- 5. Concrete Pad To Be Level To Permit Cabinet To Sit Square On Pad.

ELECTRIC SERVICE SCHEMATIC





CONTROLLER CABINET BASE DETAIL

CONTROLLER CABINET VENTING

SHEET 2 OF 3

2630-2

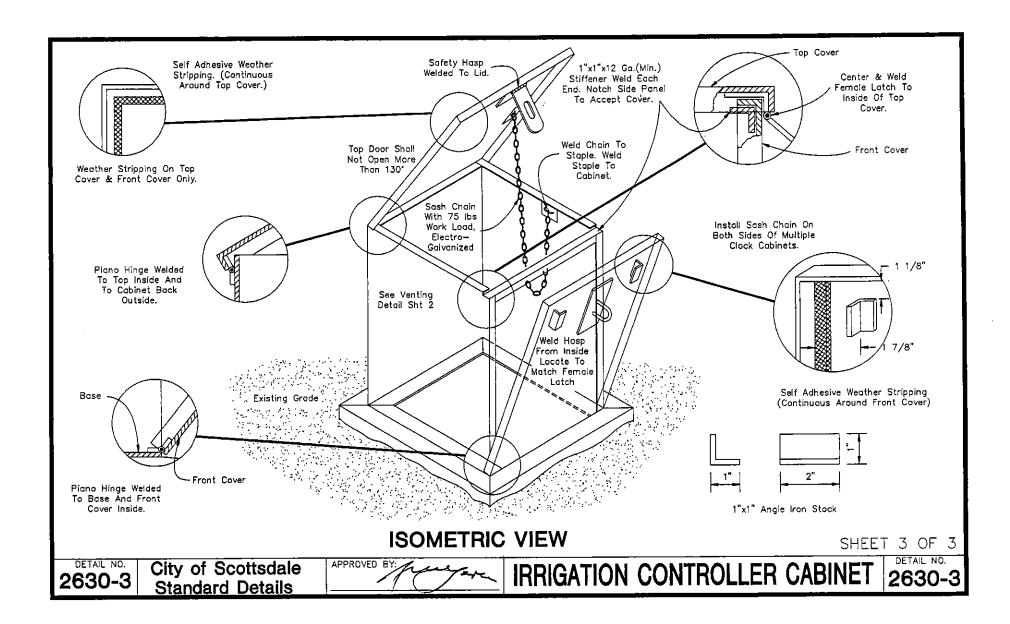
City of Scottsdale Standard Details

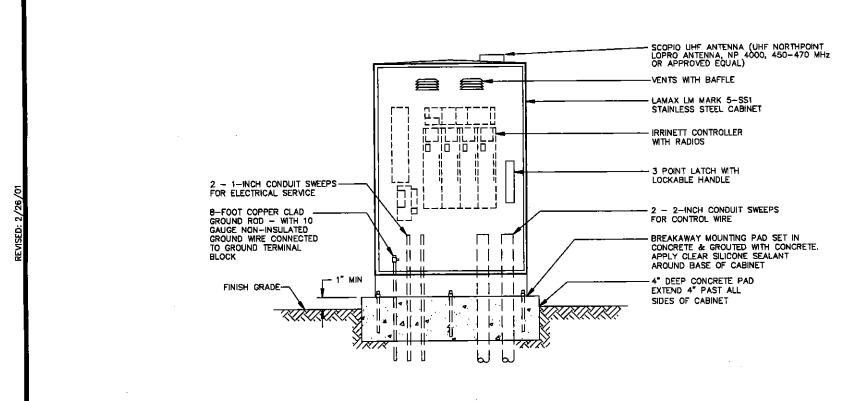


IRRIGATION CONTROLLER CABINET

2630-2

REVISED 5/16/





NOTE:
1. POWER SOURCE FOR CONTROLLER TO BE HARD WIRED FROM CIRCUIT BREAKER INSIDE CABINET.

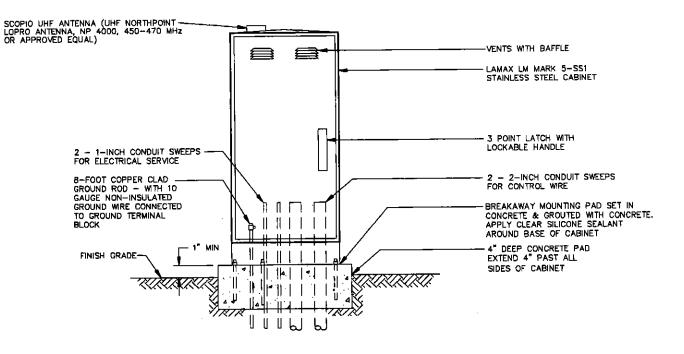
2. LOCATION OF POWER SOURCE TO BE NOTED ON CIRCUIT BREAKER PANEL.
3. PROGRAMMING KEYPAD TO BE SUPPLIED WITH CONTROLLER.

4. CONTROLLER TO BE LOCATED IN AREA WITH POSITIVE DRAINAGE.

DETAIL NO. 2631

City of Scottsdale Standard Details

IRRINET PEDESTAL MOUNTED CONTROLLER

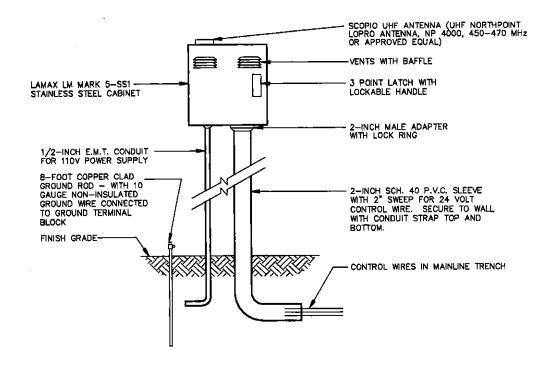


NOTE:
1. POWER SOURCE FOR CONTROLLER TO BE HARD WIRED FROM CIRCUIT BREAKER INSIDE CABINET.

2. 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 TO BE INSTALLED WITH SCORPIO CONTROLLER.

City of Scottsdale DETAIL NO. 2632 Standard Details



NOTE:

1. POWER SOURCE FOR CONTROLLER TO BE HARD WIRED FROM CIRCUIT BREAKER INSIDE CABINET.

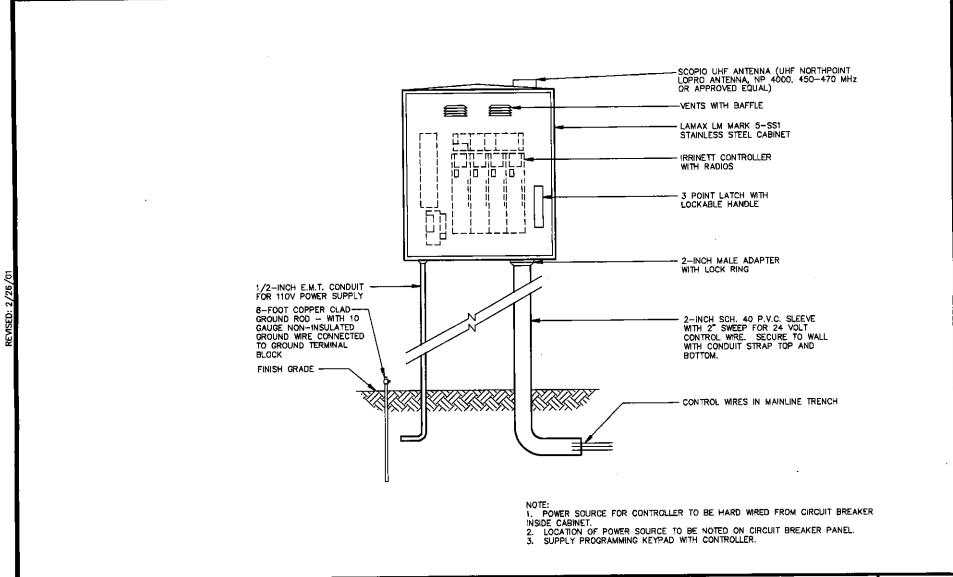
2. LOCATION OF POWER SOURCE TO BE NOTED ON CIRCUIT BREAKER PANEL.
3. REMOTE CONTROL VALVES FOR D.C. SCORPIO APPLICATIONS MUST HAVE D.C.
LATCHING SOLENOIDS AND APPROVED SOLAR PANEL FOR POWER SOURCE.

4. JSLM NARROW BAND RADIO TO BE INSTALLED WITH SCORPIO CONTROLLER.

2633

City of Scottsdale Standard Details

DETAIL NO.



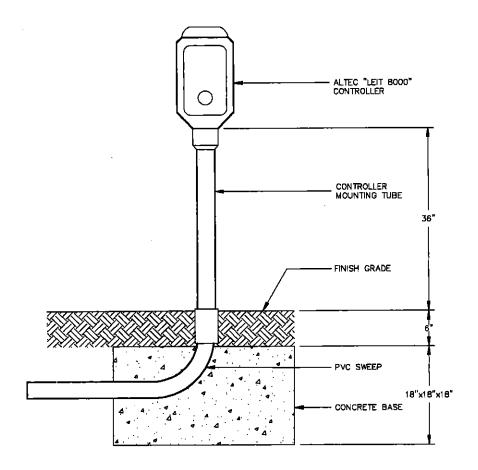
DETAIL NO.

2634

City of Scottsdale Standard Details

IRRINET WALL MOUNTED CONTROLLER

- 1. INSTALL WIRE, CONNECTORS, SEALANT, AND ADAPTORS PER MANUFACTURERS INSTRUCTIONS.
- 2. D.C. LATCHING SOLENDIDS ON REMOTE CONTROL VALVES TO BE COMPATIBLE WITH CONTROLLER.
- 3. MASTER VALVE TO BE INSTALLED AND WIRED TO CONTROLLER. RAINBIRD GB VALVE, SAME SIZE AS MAINLINE INSTALLED PER COS DETAIL #2854 (REMOTE CONTROL VALVE) WITH DC LATCHING SOLENOID COMPATIBLE WITH CONTROLLER.
- 4. PROGRAMMING/ACCESS KEY TO BE SUPPLIED WITH CONTROLLER.

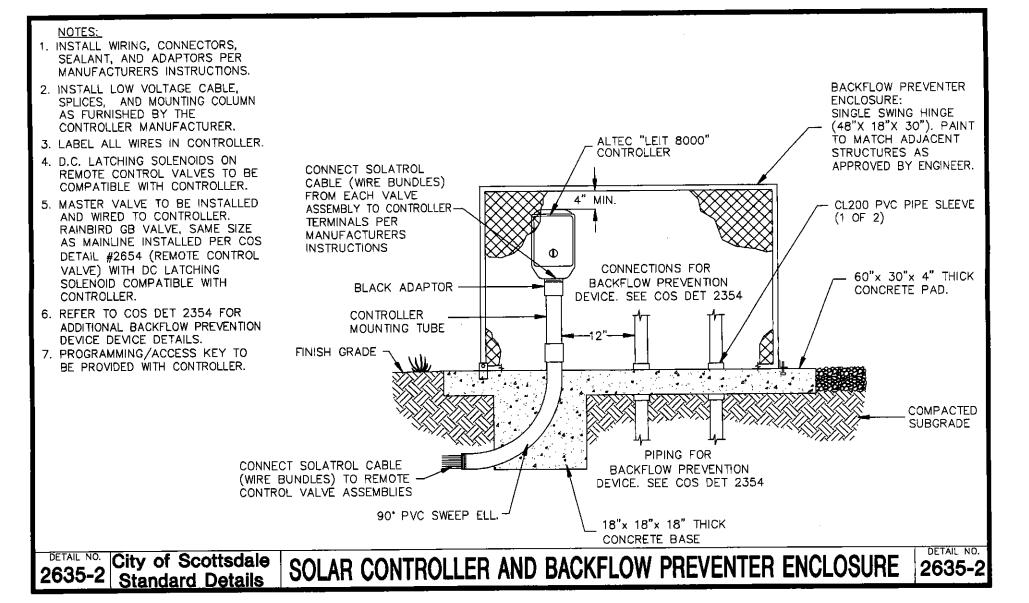


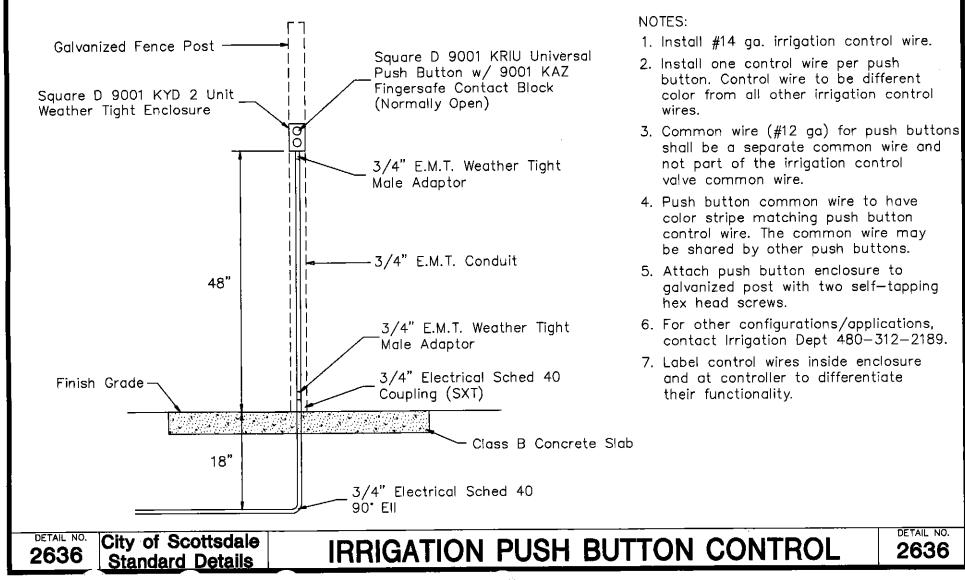
DETAIL NO. 2635-1

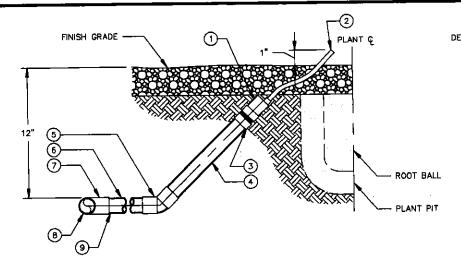
City of Scottsdale Standard Details

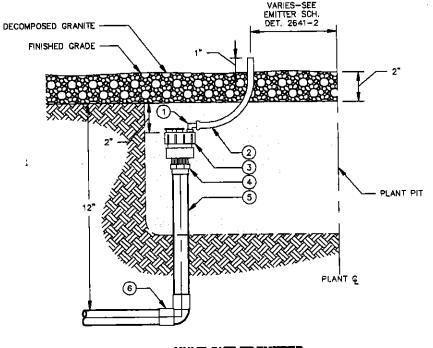
SOLAR CONTROLLER

DETAIL NO. 2635-1









SINGLE OUTLET EMITTER ALL SHRUBS & GROUND COVER

SCALE: NTS

LIST OF MATERIALS

- 1 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 45 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.
- 2. EMITTER TUBING EMISSION POINTS SHALL BE EQUALLY SPACED AND LOCATED TO DIRECT WATER FLOW TO THE PERIMETER OF THE DRIP
- 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: NT:

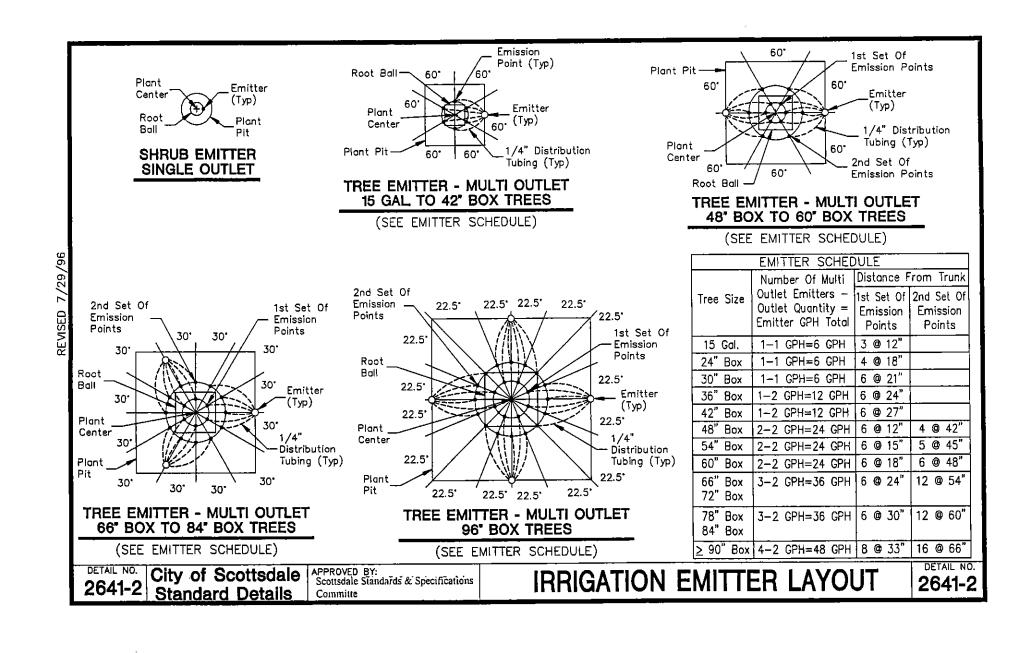
LIST OF MATERIALS

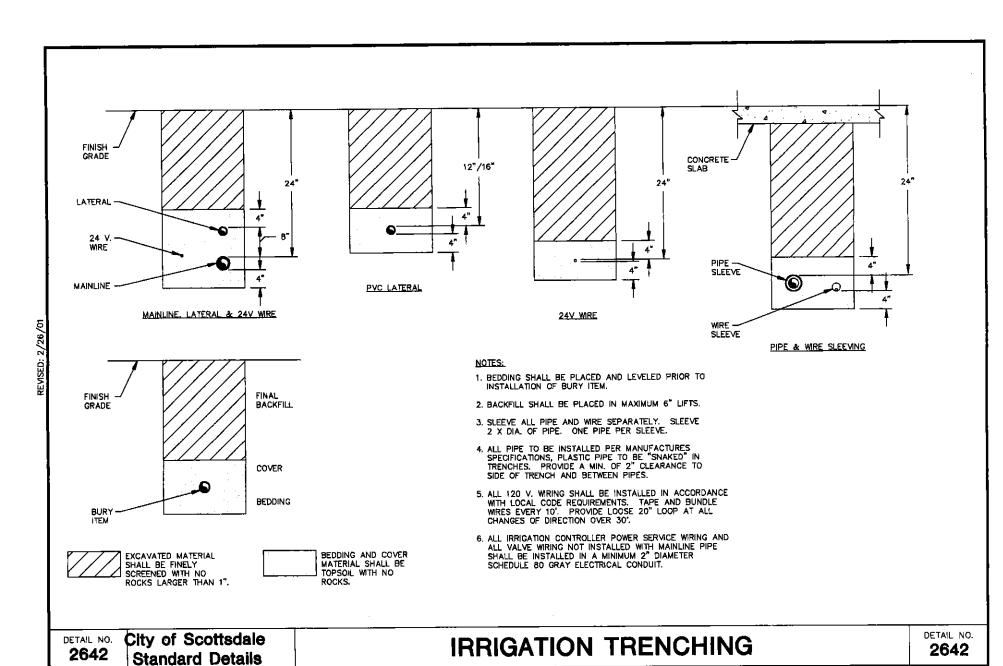
- (1) SWIVEL OUTLET 90' ELBOW
- 2) 1/4" POLY FLEX HOSE EMITTER TUBING
- BOWSMITH ML 200 SERIES MULTI-PORT
 EMITTER OR APPROVED EQUAL. LOCATE ON
 UPHILL SIDE OF PLANT ©
- (4) 1/2" PVC SCH 40 MALE ADAPTER
- 5 AG. PRODUCTS 1/2" I.P.S. FLEXIBLE VINYL PVC PIPE OR APPROVED EQUAL
- (6) 1/2" PVC SCH 40 FITTING

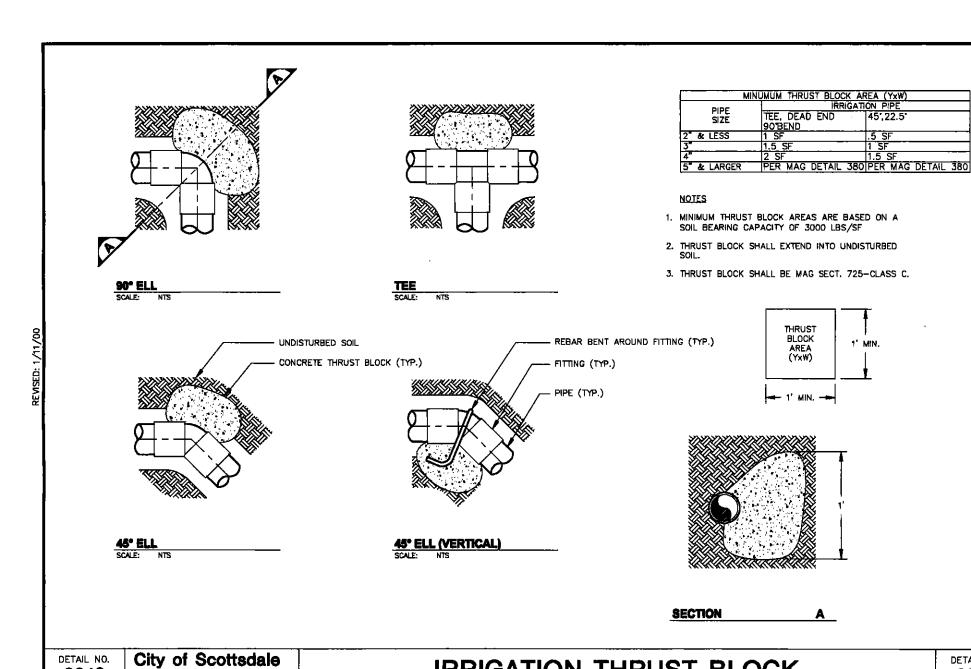
DETAIL NO. 2641-1 City of Scottsdale Standard Details

SINGLE & MULTI-OUTLET EMITTERS

DETAIL NO. **2641-1**





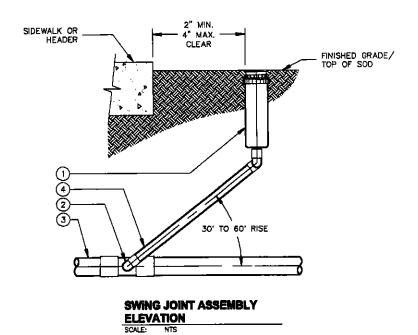


IRRIGATION THRUST BLOCK

DETAIL NO.

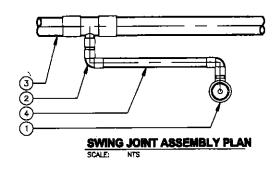
2643

Standard Details



LIST OF MATERIALS

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



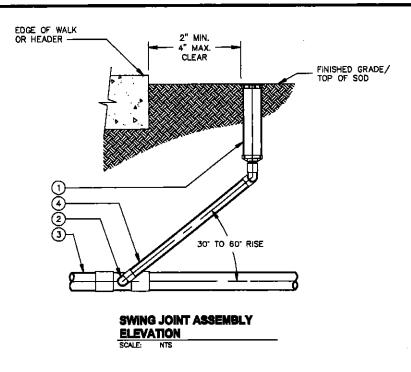
NOTES

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

DETAIL NO. **2644**

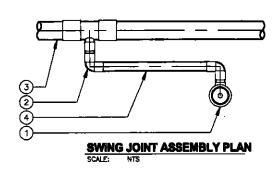
City of Scottsdale Standard Details

ROTOR SPRINKLER ASSEMBLY



LIST OF MATERIALS

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

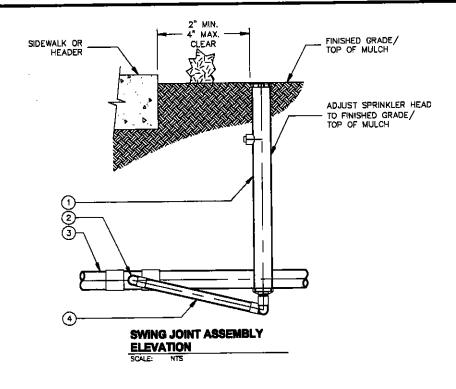


NOTES

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

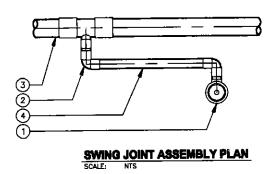
DETAIL NO. **2645** City of Scottsdale Standard Details

POP-UP SPRINKLER ASSEMBLY



LIST OF MATERIALS

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

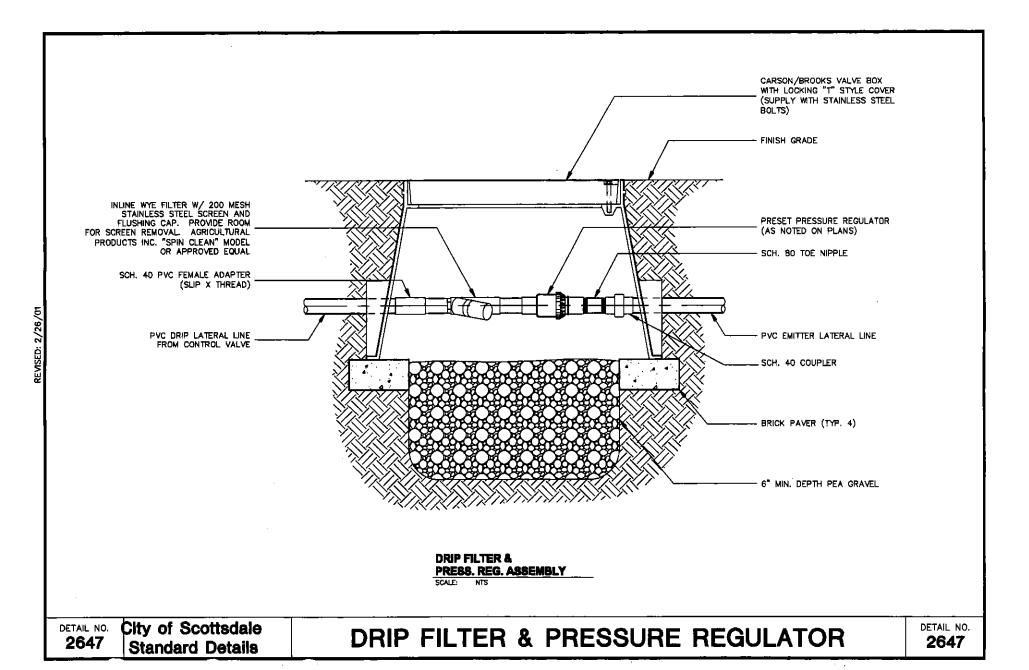


NOTES

- 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.

2646

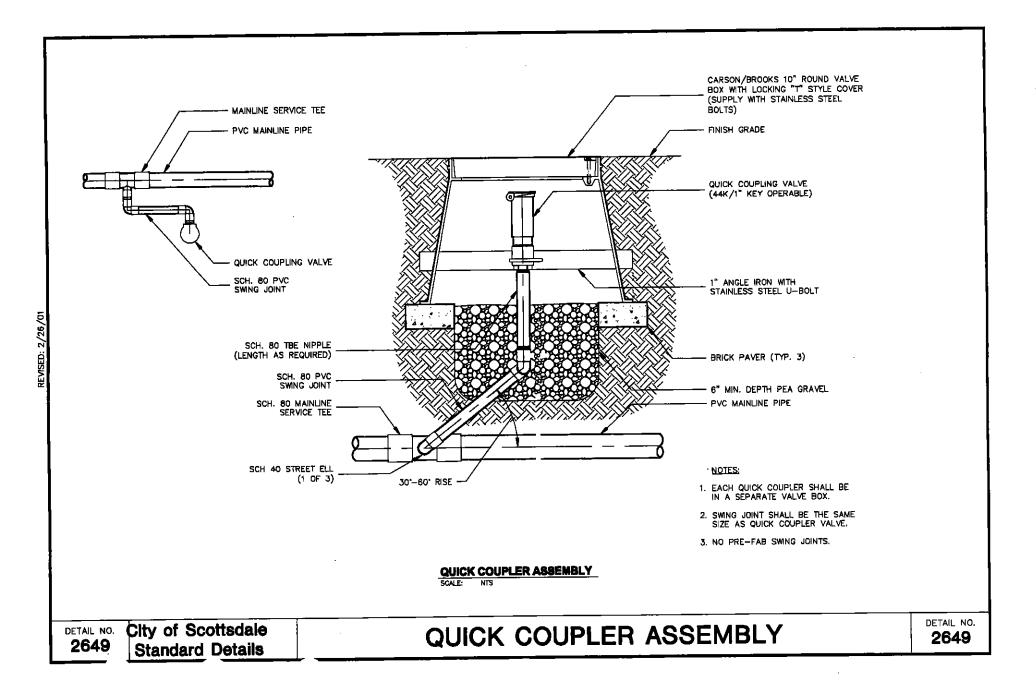
City of Scottsdale Standard Details SHRUB POP-UP SPRINKLER ASSEMBLY



DETAIL NO. **2648**

City of Scottsdale Standard Details

EMITTER FLUSH CAP ASSEMBLY



2-1/2" & SMALLER MAINLINE BALL VALVE

2650

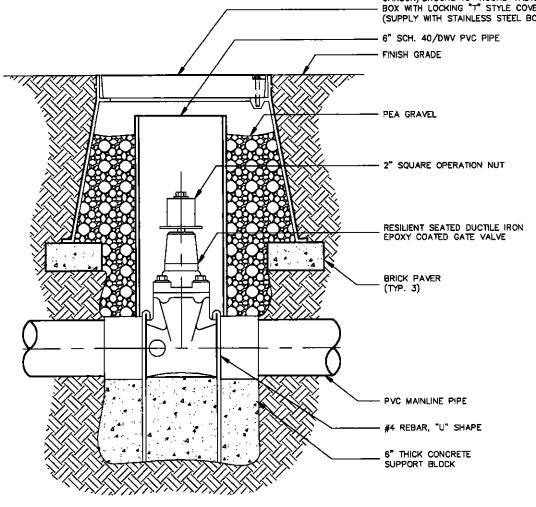
DETAIL NO.

2650

Standard Details

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

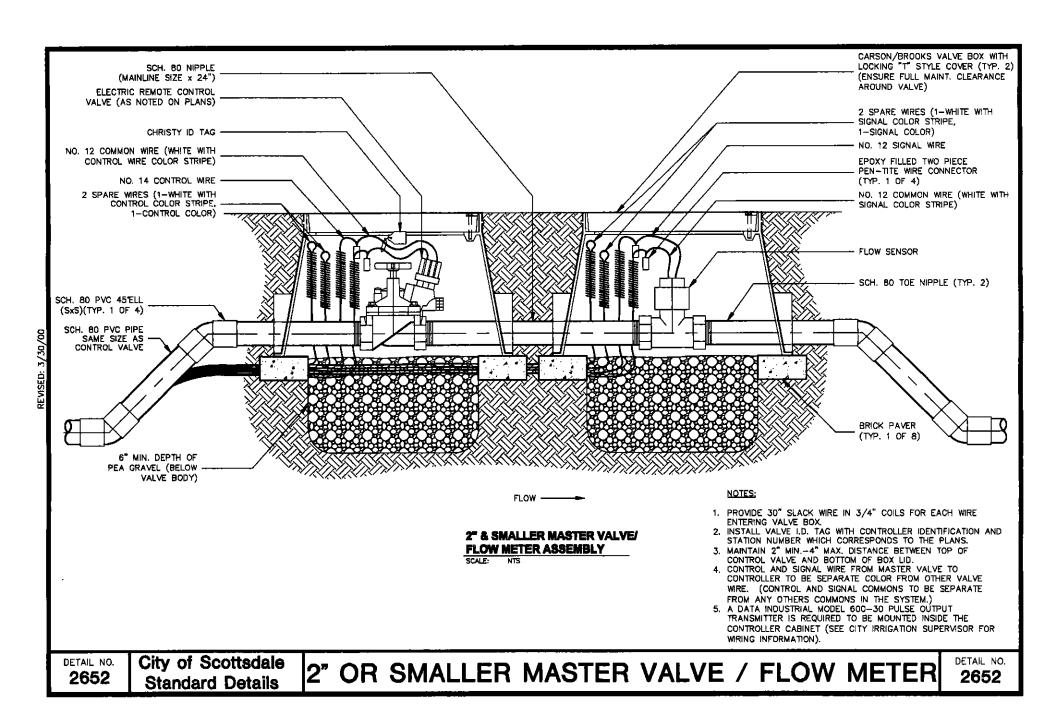
- GATE VALVE SHALL MATCH NOMINAL SIZE OF MAINLINE PIPE.
- 2. PROTECT VALVE BODY WITH 10MIL PLASTIC PRIOR TO INSTALLATION OF REBAR & SUPPORT BLOCK.

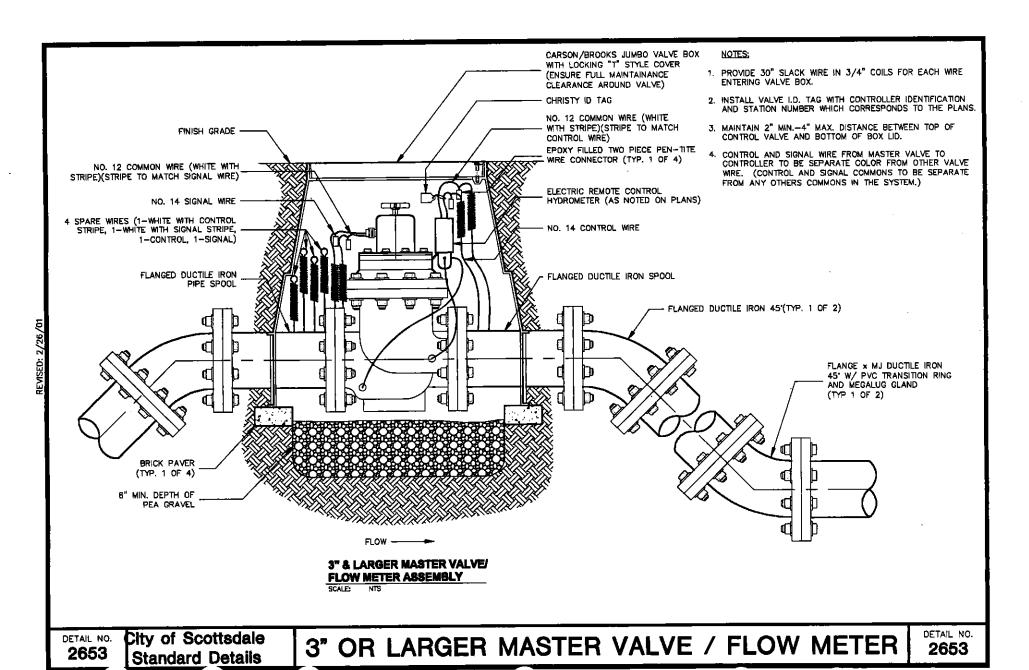


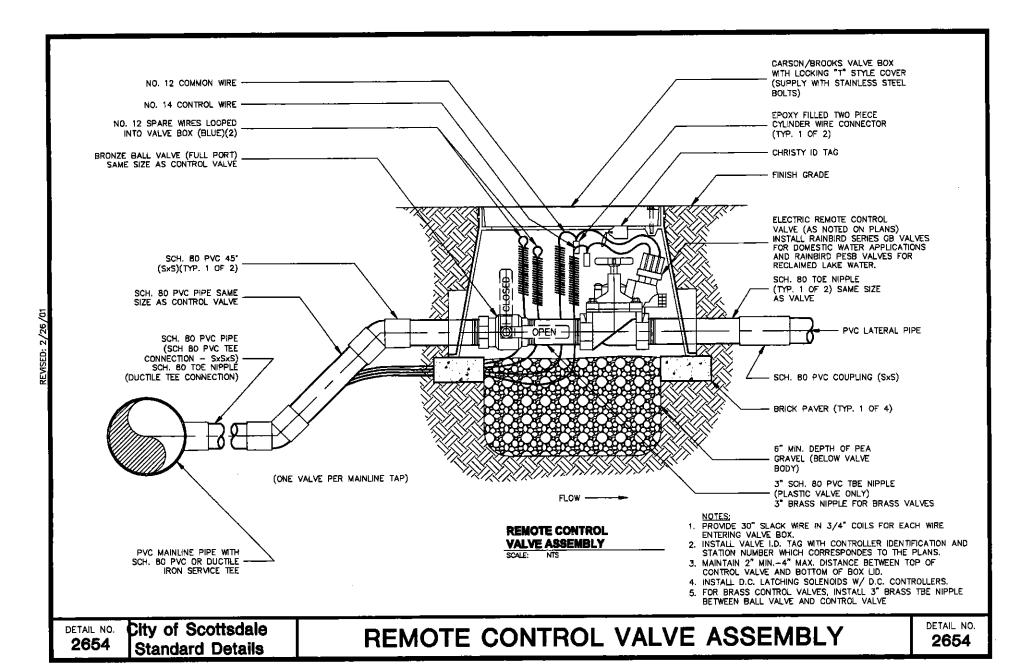
3" & LARGER MAINLINE ISOLATION **GATE VALVE ASSEMBLY** SCALE: NTS

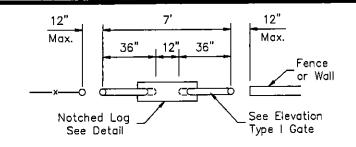
DETAIL NO. 2651

City of Scottsdale Standard Details

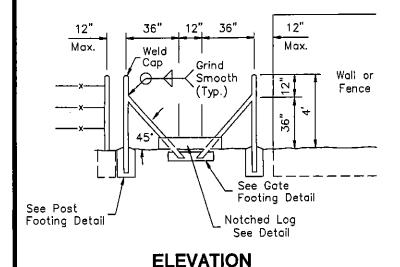








TYPE I GATE w/ NOTCHED LOG



TYPE I GATE

Bevel As Shown 2" Steel Pipe (Typ)

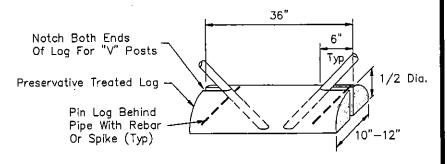
POST FOOTING DETAIL

Footing 2" Below 5" Clear (Typ.)

GATE FOOTING DETAIL

NOTES:

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



NOTCHED LOG DETAIL

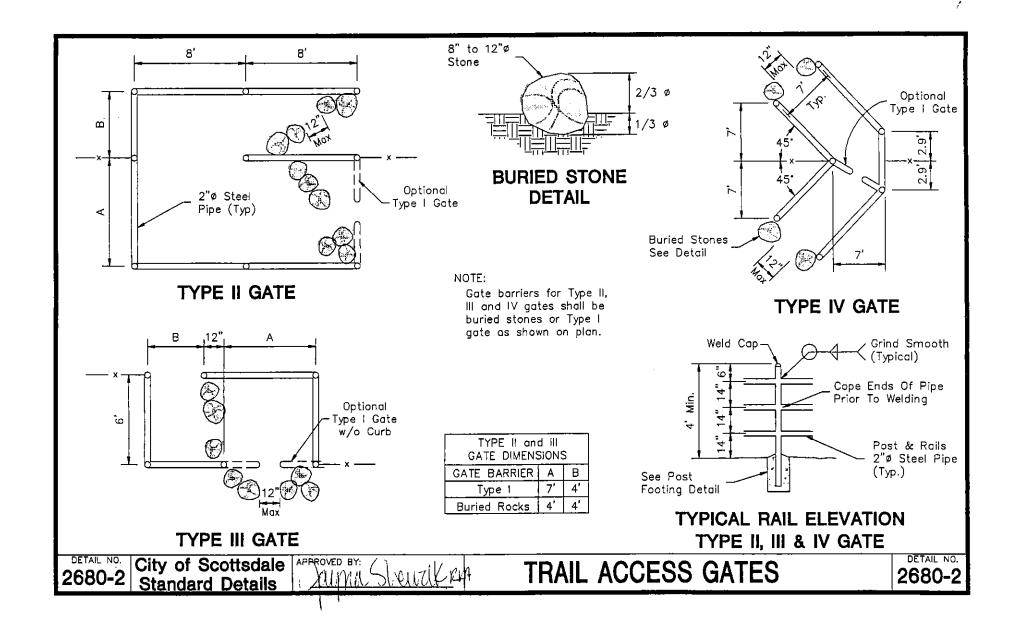
2680-1 City of Scottsdale Standard Details

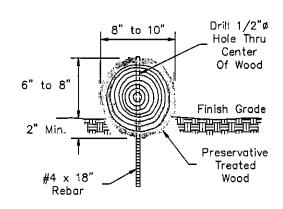
APPROVED BY: SINUMIKRUA

TRAIL ACCESS GATES

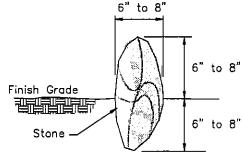
2680-1

Die :



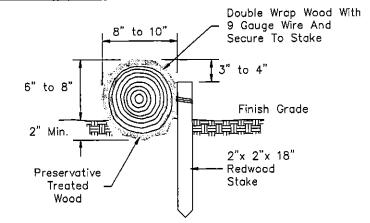


REBAR SECURED WOOD BARS



Stagger Stones To Provide A Continuous Water Bar

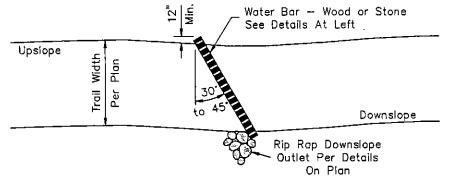
STONE BARS



WIRE SECURED WOOD BARS

NOTES:

- Provide water bars at a moximum 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

2681 City of

City of Scottsdale Standard Details

APPROVED BY: NUIL RUT

TRAIL WATER BARS

