City of Scottsdale



2007

SUPPLEMENTAL STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION

2100 Series General Information	2200 Series Street Information Cont'd	2200 Series Street Information Cont'd
 2124* Accessible Signage 2131 Sign Post Installation 2132 Raised Pavement Marker Layout 2133-1* Median Nose Signing - Type A & B 2133-2* Median Or Shoulder Signing 2134-1* Street Name Signs - Type A 2134-2* Street Name Signs - Type B 2134-3* Street Name Signs - 18" And 24" Metro 2134-4* Directional Street Name Sign 2135* Street Name Sign Installation 2136* Advance Street Name Signs 2137 Loop Detectors 2138 Signal Pole Drilling Detail 2139* Traffic Signal Controller Cabinet Extender 2140* Model 330 Input Rack Wiring Instructions 2146-1 Refuse Enclosure 2146-2 Refuse Enclosure With Grease Containment Area 2147-1 Double Refuse Enclosure 2147-2 Double Refuse Enclosure 2147-2 Double Refuse Enclosure 2147-2 Double Refuse Enclosure With Grease 2165-1 16' Sliding Gate & Hinged Door 	 2225 Median Nose & Reverse Curve Details 2226 16' Median Nose Details 2228 Cut-Off Wall 2230 Sidewalk Cut-Off For Utility Poles 2231 Detectable Warning Surface 2232 Directional Sidewalk Ramps 2233-1 Directional Sidewalk Ramps Retrofit - Type A 2235-2 Directional Sidewalk Ramp - Type A 2235-1 Mid-Block Sidewalk Ramp - Type A 2237 Sidewalk Pavers (Non-Traffic Bearing) 2239 Median Concrete Pavers 2240 6' Valley Gutter & Apron 2250 Driveway Entrances 2255 Residential Driveways 2256 Commercial/Industrial Driveways-Type CL 2257 Commercial/Industrial Driveways-Type Cl 2265-1 Bus Shelter - Framing Plan 2265-5 Bus Shelter - Details 2265-7 Bus Shelter - Abbreviations 	2285*Double Bicycle Rack2290-1*Median Island Details2290-2*Bulb Out/Choker Detail2292-2Speed Table Details2292-2Speed Table Details2293*Mid-Block Pedestrian Table2294*Intersection Pedestrian Table2295*Pedestrian Refuge2300SeriesWater Information2305-1Butterfly Valve Operator Manhole2305-2Butterfly Valve Operator Manhole2315Nonpotable Water Valve Box & Cover2330*Water Service Line Connection2332Chlorine Injection Tap2333Tap For Future Chlorine Injection2342-1Pressure Reducing Valve2345-23", 4", 6" Water Meter2345-23", 4", 6" Water Meter2346*Temporary Construction Meter2349Water Quality Sampling Station2351Double Check Valve Backflow Prevention Assembly For Assemblies 3" Thru 10"2352Double Check Valve Backflow Prevention Assembly For Assemblies 3/4" Thru Or Assemblies 3/4" Thru
2200 Series Street Information	2266–1 Closed End Bus Bay – Type "A" 2266–2 Closed End Bus Bay – Type "B" 2267 Far Side Bus Bay	2 1/2 2353 Reduced Pressure Principle Backflow Prevention Assembly For Assemblies 3"
 2200 Pavement Replacement 2201 Trench Bedding & Backfill 2202 Trench Plating 2207 Residential Unpaved Road 	 2268 Base Slab And Foundations For Bus Stop Bench And Receptacles 2270 Frame & Cover Grade Adjustment 2281* Deleted 2282 Multi Llos Bath Striping And Signing 	Ihru 10" 2354 Reduced Pressure Principle Backflow Prevention Assembly For Assemblies 3/4" Thru 2 1/2" 2355 Pressure Vacuum Breaker Assembly For
2210 Grading Behind The Curb 2220 Curb And Gutter — Types "A" & "B" 2221 Curb And Gutter — Types "M" & "W"	2282 Multi-Use Path Details 2284* Multi-Use Path Wet Crossing Sign	Assemblies 1/2" Thru 2" NOTE: * - Indicates New Or Revised Details For 2007 Supplement.
DETAIL NO.City of Scottsdale2100-1Standard Details	INDEX	DETAIL NO. 2100-1

REVISED 5/24/07

2300 Series	2400 Series	2600 Series
Water Information Contid	Sanitary Sewer Information	Landscaping Information
Water Information Cont d2356Guard Posts For Backflow Prevention Assemblies2357Fill Pipe Details For Portable Tanks With Air Gap Separation2358Backflow Prevention For Portable Tanks With No Air Gap Separation2359"N" Shaped Double Check Valve Backflow Prevention Assembly For Assemblies 3" Thru 10"2360"N" Shaped Reduced Pressure Principle Backflow Prevention Assembly For Assemblies 3" Thru 10"2361Fire Hydrant Bypass Assembly 2362-1*2362-1*1-1/2" - 2" Fire Line Connection 23632363Pavement Markers For Fire Hydrants 23642364Fire And Emergency Access And Delineation2365*Fire Lane Sign 23662366Concrete Collar For Fire Hydrants 23672368*Fire Sprinkler Riser Detail - Vertical Installation #12369Fire Sprinkler Riser Detail - Vertical Installation #22370Vertical Realignment Of Water Mains 23722371Vertical Realignment Of Water Mains 23722372Temporary Blow-Off For Water Supply 23812383Water Line Flushing Assembly 2397*239*Temporary Tap For Chlorine Injection	2401* Water & Sanitary Sewer Separation/ Protection 2402 Force Main Discharge Manhole 2403 2-Way F.M. Cleanout, 3" & Above 2404 F.M. Cleanout W/ Sewer Release A.V. 2405 Sewer Air Release Valve 2420 Water Tight Concrete Sewer Manhole 2421 Sanitary Sewer Manhole Cover 2440 Type II Sewer Building Connection 2460 Monitoring/Sampling Vault 2500 Series Irrigation & Storm Drain Information 2508 Handrail Detail 2515-1 Wall Opening & Erosion Protection - Type 1 2515-2 Drainage Grate At Block Wall 2515-3 Erosion Protection - Type 2 2520 Storm Drain Manhole Cover 2535 Catch Basin Grates 2554 Concrete Invert Paving For Corrugated Metal Pipe And Pipe Arch 2560-1 Storm Drain Inlet Marker 2560-2 Storm Drain Inlet Marker 2562-1 Storm Drain Inlet Marker On Catch Basin/Scupper 2562-1 Storm Sewer Outfall Access Barrier 2562-2 Barrier Specifications Schedule 2600 Series	Landscaping Information2631Irrinet Pedestal Mounted Controller2632Scorpio Vall Mounted Controller2633Scorpio Wall Mounted Controller2634Irrinet Wall Mounted Controller2635-1*Solar Controller & Backflow Enclosure2636Irrigation Push Button Control2641-1*Single & Multi-Outlet Emitters2641-2Irrigation Emitter Layout2642*Irrigation Trenching2643*Irrigation Thrust Block2644Rotor Sprinkler Assembly2645Pop-Up Sprinkler Assembly2646Shrub Pop-Up Sprinkler Assembly2647Drip Filter & Pressure Regulator2648Emitter Flush Cap Assembly2649Quick Coupler Assembly2650*1-1/2" & Larger Mainline Ball Valve26512" & Larger Mainline Isolation Valve2653*1-1/2" & Larger Master Valve/Flow Meter2654*Remote Control Valve Assembly2655Typical Irrigation Wire Connection2656*Irrigation Wire Sleeving Chart2680-1Trail Access Gates2681Trail Water Bars2682Trail Signs
	2620-3 Landscape Details	NOTE: * - Indicates New Or Revised
DETAIL NO. City of Scottedale		Details for 2007 Supprement.
2100-2 Standard Details	INDEX	2100-2

REVISED 5/24/07













TYPE A SIGNS

ASTM Type IV Sheeting Green/White (2 Sides) Typeface: Clearview 2–W Blank Sizes: 9"x 24", 9"x 30" 9"x 36", 9"x 42" Blank Type: .091 extruded aluminum

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

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

REVISED 4/24/07

2134-1 City of Scottsdale Standard Details

APPROVED BY: Scottsdale Standards & Specifications Committee

STREET NAME SIGNS - TYPE A







TYPE B BLOCK NUMBERS

ASTM Type IV Reflective Sheeting

Green/White (1 Side)

Typeface: Clearview 2-W

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

Blank Type: 0.125 treated aluminum

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

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











0107	City of Scottsdale	Scottsdale Standards &
2137	Standard Details	Specifications Committee

LOOP DETECTORS

DETAIL NO. 2137





REVISED 4/24/07

Notes:

- 1. Model 330 cabinet base extenders will include cutouts that will accommodate replacement with all other Scottsdale 330 cabinets and model 336S. These base extenders are available from the cabinet manufacturer. All Scottsdale cabinets are foundation mounted.
- 2. Foundation must include a 4"x30"x30" concrete pad in front of the cabinet door.
- 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.

DETAIL NO. 2139

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

- 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 Scottsdale Scottsdale Standards & Specifications Committee MODEL 330 INPUT RACK WIRING INSTRUCTIONS 2140

MAIN DIR	MAIN DIRECTIONS LEFT TURN DIRECTIONS (Main Color + White)		F	RIGHT TURN DIRECTIONS (Main Color + Black)			Color Of Wire For Power/Neutrals/Pushbuttons		
Direction	Color	Direction	Color		Direction	Color		Wire	Color
WB	Blue	WBLT	Blue + White		WBRT	Blue + Black	A	C+ Power	Black
EB	Green	EBLT	Green + White		EBRT	Green + Black	AC	- (Neutral)	White
NB	Red	NBLT	Red + White		NBRT	Red + Black	24	Pushbutton	Orange, Stranded
SB	Yellow	SBLT	Yellow + White		SBRT	Yellow + Black			

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 Scottsdale Standards & Specifications Committee TAPE COLOR CODES FOR TRAFFIC SIGNAL WIRING 2141















EXISTING	AC PAVEMENT REPLACEMENT TABLE								
PAVEMENT THICKNESS, T _E	AC SINGLE COURSE OR SURFACE COURSE, T ₁	AC BASE COURSE, T₂	TOTAL THICKNESS, T _T						
$T_{E} \leq 3$ "	3" MINIMUM	NONE	3" MINIMUM						
T _E > 3"	2" MINIMUM	2" MINIMUM	T _E (MATCH EXIST)						

PAVEMENT REPLACEMENT NOTES

- 1. "T"-TOP REQUIRED FOR ALL TRENCHES. A.C. SURFACE COURSE REPLACEMENT TO BE MILLED DOUBLE "T" CONFIGURATION AS SPECIFIED BELOW FOR PAVEMENTS 4" AND THICKER.
- G. FOR PAVEMENT 4 YEARS AND OLDER: INITIAL A.C. REMOVAL TO BE THE MINIMUM WIDTH REQUIRED FOR PROPER TRENCH COMPACTION, SAWCUT & REMOVE 12" OF A.C. MINIMUM ON EACH SIDE OF THE TRENCH FOR THE "T"-TOP AFTER THE BACKFILL MATERIAL IS PLACED. PAVEMENTS 4" AND THICKER, MILL AND REMOVE THE TOP 2" OF THE SURFACE COURSE A MINIMUM OF 6" ON EACH SIDE OF THE T-TOP PRIOR TO PLACEMENT OF THE FINAL SURFACE COURSE LIFT.
- b. FOR NEW AND OVERLAYED PAVEMENT LESS THAN 4 YEARS OLD AND WHEN ALLOWED UNDER THE PROVISIONS OF SCOTTSDALE REVISED CODE SECTIONS 47-79 AND ALL PAVEMENTS WITH RUBBERIZED SURFACE COURSES: INITIAL A.C. REMOVAL TO BE THE MINIMUM WIDTH REQUIRED FOR PROPER TRENCH COMPACTION. SAWCUT & REMOVE 12" OF A.C. MINIMUM ON EACH SIDE OF THE TRENCH FOR THE "T"-TOP AFTER THE BACKFILL MATERIAL IS PLACED. PAVEMENTS 4" AND THICKER, MILL AND REMOVE THE TOP 2" OF THE SURFACE COURSE EQUALLY ON BOTH SIDES OF THE TRENCH TO A MINIMUM TOTAL WIDTH OF 10 FEET. FOR PAVEMENTS LESS THAN 4" THICK SAWCUT, REMOVE AND REPLACE THE ENTIRE PAVEMENT SURFACE TO A MINIMUM TOTAL WIDTH OF 10 FEET, AS DIRECTED BY THE ENGINEER.
- C. FOR DEEP PAVEMENT STRUCTURES REQUIRING TWO OR MORE PAVEMENT BASE LIFTS: INITIAL A.C. REMOVAL TO BE THE MINIMUM WIDTH REQUIRED FOR PROPER TRENCH COMPACTION. SAWCUT, REMOVE AND REPLACE A.C. ON BOTH SIDES OF THE TRENCH AS NECESSARY TO ACCOMODATE A RIDE ON TYPE VIBRATORY ROLLER COMPACTOR FOR PLACEMENT OF THE A.C. BASE COURSE LIFTS, MATCH EXISTING A.C. DEPTH, MILL AND REMOVE THE TOP 2" OF THE SURFACE COURSE EQUALLY ON BOTH SIDES OF THE TRENCH TO A MINIMUM TOTAL WIDTH OF 10 FEET.
- 2. ASPHALT CONCRETE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF MAG SECTION 321.
- 3. IF PAVEMENT REMNANT IS LESS THAN 36", REMOVE AND REPLACE PAVEMENT AS PER THIS DETAIL.
- AGGREGATE BASE COURSE PER MAG SECTION 702 SHALL BE PROVIDED TO MATCH EXISTING ABC THICKNESS IN ADJACENT ROADWAY.
- 5. REFER TO COS SUPPLEMENTAL SPECIFICATIONS, SECTION 336.2.4 FOR PAVEMENT SMOOTHNESS REQUIREMENTS.



















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 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.
- 6. Steel reinforcement Per M.A.G. Section 727.














REVISED 5/25/05







REVISED 5/25/05































GENERAL STRUCTURAL NOTES				
BUILDING CODE:	STRUCTURAL STEEL: CONT'D	SHOP DRAWINGS: CONT'D		
2003 EDITION OF THE UNIFORM BUILDING CODE, WITH CITY OF SCOTTSDALE AMENDMENTS. LOADS: LATERAL: WIND LOAD = 90 MPH WIND SPEED, EXPOSURE C. SEISMIC ZONE 2B ($Z = 0.075$)	TESTING AGENCY, ALL WELDING DONE BY E70 SERIES LOW HYDROGEN RODS UNLESS NOTED OTHERWISE, FOR GRADE 60 REINFORCING BARS, USE E90 SERIES. THESE DRAWINGS DO NOT DISTINGUISH BETWEEN SHOP AND FIELD WELDS; THE CONTRACTOR MAY SHOP WELD OR	REVIEWING IS INTENDED ONLY AS AN AID TO THE CON- TRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR. SPECIAL REQUIREMENTS		
FOUNDATIONS: COMPACT SUB GRADE AND BASE MATERIAL TO 95% OF THE ASTM D698 MAXIMUM DRY DENSITY. CONCRETE: MINIMUM 28 DAY STRENGTH 3,000 PSI	FIELD WELDS SHALL BE SHOWN ON THE SHOP DRAW- INGS SUBMITTED FOR REVIEW. STEEL DECKING: ALL STANDING SEAM DECK SHALL CARRY A U.L. 90 UPLIFT RATING. INSTALLATION SHALL CONFORM TO	1. AN ARTIST-DESIGNED SHELTER MAY BE SUBSTITUTED FOR STANDARD SHELTER BY APPROVAL OF THE CITY OF SCOTTSDALE TRANSIT SECTION. HOWEVER, IT MUST INCORPORATE ALL THE FUNCTIONAL ELEMENTS INCLUDED IN THE STANDARD SHELTER. SEE TRANSIT & DESIGN REVIEW STAFF FOR DETAILS.		
ALL CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE ACI. FOR CONCRETE WITHOUT PLASTICIZER, MAXIMUM SLUMP 4 1/2" AT POINT OF PLACEMENT U.N.O. IF PLASTICIZER IS USED, A HIGHER FINAL SLUMP MAY BE ALLOWED UPON STRUCTURAL ENGINEER'S APPROVAL.	STANDARDS SET FORTH IN THE ARCHITECTURAL SHEET METAL MANUAL PUBLISHED BY SMACNA. WELDERS EXPERIENCED IN LIGHT GAGE STEEL DECK WORK SHALL PERFORM ALL WELDING. DECK WELDING MAY BE ACHIEVED WITH E60 SERIES NON LOW HY- DROGEN RODS OR E70 SERIES LOW HYDROGEN RODS.	 STANDARD BUS STOP SIGN LOCATION, NEW OR RE-LOCATED SIGNS SHALL BE APPROVED BY THE TRAFFIC/ TRANSIT STAFF. ADDITIONAL REQUIREMENTS MAY INCLUDE: A) LEANING RAIL. B) LED REAL TIME BUS INFORMATION SIGN. B) LED REAL TIME BUS INFORMATION KIOSKS 		
<u>REINFORCING</u> ALL REINFORCING PER CRSI SPECIFICATIONS AND HAND- BOOK. ASTM A615 (Fy = 60 KSI/GRADE 60) DEFORMED BARS FOR ALL BARS	SCREWS WHERE INDICATED SHALL BE #12-24 TRAXX PER ICBO 3056 OR APPROVED EQUIVALENT. SHOP DRAWINGS:	 D) PEDESTRIAN RAILING AROUND THE BACK OF SHELTER ADJACENT TO STEEP SLOPES OR DROP-OFFS. 4. CITY OF SCOTTSDALE TRANSIT BUS SHELTERS SHALL 	SHELTER S SHALL MAY ULATED) CHT FOUN- TEND OUT A LENGTH WICTOR	
ALL REINFORCING SHALL BE CHAIRED TO ENSURE PRO- PER CLEARANCES. SUPPORT OF FOUNDATION REINFORC- ING MUST PROVIDE ISOLATION FROM MOISTURE CORR- OSION BY USE OF A PLASTIC OR CONCRETE CHAIR. DUCT-TAPE COVERED REINFORCING IS NOT AN ACCEPT- ARIE CHAIR	SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCT- URAL ITEMS. THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON CONTRACTOR'S REVIEW.	BE PROVIDED WITH A GROUNDING SYSTEM THAT MAY CONSIST OF ONE OF THE FOLLOWING METHODS: A) 25 FEET OF #4 STANDARD COPPER (UNINSULATED) INSTALLED IN THE BASE OF ONE OF THE UPRIGHT FOUN- DATIONS. THE GROUNDING CONDUCTOR WILL EXTEND OUT OF THE POURED CONCRETE FOUNDATION WITH A LENGTH NOT TO FXCEED 3 FEET THE GROUNDING CONDUCTOR		
ALL DIMENSIONS REFERENCED IN DRAWINGS AS "CLEAR" SHALL BE FROM FACE OF STRUCTURE TO EDGE OF REINFORCING, AND SHALL NOT BE LESS THAN STATED, NOR GREATER THAN "CLEAR" DIMENSION PLUS 3/8". ALL OTHERS SHALL BE PLUS OR MINUS 1/4" TYPICAL UNLESS NOTED OTHERWISE.	MANUFACTURER OR FABRICATOR SHALL CLOUD ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CON- TRACT DOCUMENTS. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW, UNLESS NOTED ACCORDINGLY.	WILL BE WRAPPED IN A CLOCKWISE ROTATION, ONE WRAP, AROUND ON THE THE UPRIGHT ANCHOR BOLTS. A FLAT FENDER WASHER WILL BE INSTALLED ON TOP OF THE CONDUCTOR WITH THE ANCHOR BOLT NUT ON TOP OF THE FLAT WASHER AND SECURED. B) A SECOND METHOD WILL CONSIST OF A 5/8"x 8'-0" GROUND ROD DRIVEN IN THE ELECTRICAL PULLBOX AD- JACENT TO THE BUS SHELTER. A GROUND ROD TERMINAL NUT (ACORN NUT) WILL BE INSTALLED ON TOP OF THE GROUND ROD SECURING A #8 AWG BARE SOLID COPPER WIRE. THE GROUND WIRE WILL BE INSTALLED FROM THE JUNCTION BOX, UNBROKEN AND UNSPLICED, TO THE BUS SHELTER UPRIGHT WHERE IT WILL BE TERMINATED. A SET		
STRUCTURAL STEEL: ALL CONSTRUCTION PER LATEST AISC HANDBOOK, ALL TUBE STEEL SHALL BE ASTM A500(Fy=46 KSI). ALL MISCELLANEOUS STEEL UNLESS NOTED OTHERWISE SHALL BE ASTM A36 (Fy = 36 KSI).	THE ENGINEER HAS THE RIGHT TO APPROVE OR DIS- APPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANYTIME BEFORE OR AFTER SHOP DRAWING REVIEW. THE SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOC- UMENTS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT			
UNLESS NOTED OTHERWISE, ALL WELDS PER LATEST EDITION OF THE AWS STANDARDS. ALL WELDING SHALL BE PERFORMED BY WELDERS HOLDING VALID CERTIF- ICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES. CER- TIFICATES SHALL BE THOSE ISSUED BY AN ACCEPTED	SHALL NOT BE CONSIDERED CHANGES TO CONTRACT DOC- UMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ITEMS ARE CONSTRUCTED TO CONTRACT DOCUMENTS. THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY.	-SCREW TERMINAL LUG WILL BE FASTENED TO THE STRUCTURE UPRIGHT UNDER THE BOTTOM KICKPANEL. THE AREA UNDER THE TERMINAL LUG WILL BE CLEANED OF AL RUST, SCALE AND PAINT. THE #8 BARE BOND CONDUCTOF WILL BE TERMINATED IN THE SET-SCREW TERMINAL LUG. BOTH GROUNDING METHODS WILL BE DONE IN ACCORDANCE	E LL)R CE	
DETAIL NO. City of Scottsdale Scottsdale Scottsdale Specifica	BY: ale Standards & BUS ations Committee	with article 250 of National Electrical code. Detail N 2265-	-6	

ABBREVI	ATIONS		NOTE: ABBREVIATIONS MAY OR M	AY NOT HAVE PERIO	DS, BUT SHALL BE READ) AS SAME.
A.B. ———	ANCHOR BOLT	DN	NWOC	PCI	- PRECAST/PRESTRESSED	CONCRETE
A.B.C. ——	AGGREGATE BASE COURSE	DWG(S)	DRAWING(S)		INSTITÚTE	
ACI	AMERICAN CONCRETE INSTITUTE	E.C.	END TO CENTERLINE	P.C. ———	- PRECAST CONCRETE	
A/C	AIR CONDITIONER	E.E. —————————————————————————————————	END TO END	PLF	- POUNDS PER LINEAR F	TOOT
A.F.F. ——	ABOVE FINISHED FLOOR	E.O.S. ——————————————————————————————————	EDGE OF SLAB	±	- PLUS OR MINUS	
AISC	AMERICAN INSTITUTE OF STEEL	EQ	EQUAL	PREFAB	– PREFABRICATED	
	CONSTRUCTION	EQUIP	EQUIPMENT	PSF	- POUNDS PER SQUARE	FOOT
AISI ———	AMERICAN IRON AND STEEL	EXP. BOLT (E.B.) -1	EXPANSION BOLT	PSI	- POUNDS PER SQUARE	INCH
	INSTITUTE	EXP. JT (E.J.) —— I	EXPANSION JOINT	PTI	- POST-TENSIONING INS	TITUTE
AITC —	AMERICAN INSTITUTE OF TIMBER	E.W.———————————————————————————————————	EACH WAY	REINF	- REINFORCING	
	CONSTRUCTION	F.F. —————————————————————————————————	FINISHED FLOOR	SDI	– STEEL DECK INSTITUTE	
ALT. ———	ALTERNATE	F.O.M. ——————————————————————————————————	FACE OF MEMBER	SLH	- SHORT LEG HORIZONT	AL
ANSI	AMERICAN NATIONAL STANDARDS	F.O.S. ——————————————————————————————————	FACE OF STEEL	SLV	- SHORT LEG VERTICAL	
	INSTITUTE	F.O.W. ——————————————————————————————————	FACE OF WALL	SJI	- STEEL JOIST INSTITUTE	
APA	AMERICAN PLYWOOD ASSOCIATION	GA0	GAGE (UNIT OF MEASUREMENT)	SIM	— SIMILAR	
ARCH'L —	ARCHITECTURAL	GALV	GALVANIZED	SQ	— SQUARE	
ASTM	AMERICAN SOCIETY FOR TESTING	G.S.N(GENERAL STRUCTURAL NOTES	SSMA	- STEEL STUD MANUFAC	TURERS
	AND MATERIALS	GLB (GLULAM)	GLUED-LAMINATED BEAM		ASSOCIATION	
AWS ———	AMERICAN WELDING SOCIETY	HORIZ ————————————————————————————————————	HORIZONTAL REINFORCING	STD	– STANDARD	
©	———— AT (MEASUREMENT)		IN IERNATIONAL BUILDING CODE	STL	- STEEL	
BM	BEAM	ТСВО ————————————————————————————————————	IN IERNA HONAL CONFERENCE OF	TL	- TOTAL LOAD	
B.F.F —	BELOW FINISHED FLOOR		BUILDING OFFICIALS	T.O.B.	- TOP OF BEAM	
BLK ——	BLOCK	I.F.W	INSIDE FACE OF WALL	T.O.C.T	- TOP OF CONCRETE TO	PPING
B.O.B. —	BOITOM OF BEAM	1.U.D.	INTERPRETATION OF DRAWINGS	T.O.D.	- TOP OF DECK	
B.O.D	BOITOM OF DECK	K(KIP)	1000 POUNDS	1.0.F.	- TOP OF FOOTING	
B.O.F.	BOILOW OF FOOLING		KIPS PER LINEAR FOUT	1.0.L.	- TOP OF LEDGER	
BRG —	BEARING	LBS (#)	POUNDS	1.0.M.	- TOP OF MASONRY	
			LIGHT GAGE STEEL	1.0.P.	- TOP OF PLATE	
		LGSEA	ASSOCIATION	1.0.P.C	- TOP OF PRECAST CON	CRETE
				1.0.5. ———	TOP OF SIEEL	
C.I.P. —			LUCATION OF DETAILS	T.U. W.	- TOP OF WALL	Ē
					- TRUSS PLATE INSTITUT	E
					- TONCHE AND CROOVE	
			MASONRY		- UNIFORM RUUDING COD	-
					- UNIFORM BUILDING COD	
					- VERTICAL REINFORCING	WIJL
		MBMA	METAL BUILDING MANUFACTURERS		- WEST COAST LUMBER A	
CONC CJ -			ASSOCIATION		- WEST COAST LUMBER	
CONC SJ -		МЕСН'І — — —	MECHANICAL	WCEID	BURFALL	
C.M.U. ——		MFR('S)	MANUFACTURER('S)	wwf	- WELDED WIRE FABRIC	
CONN		MIN	MINIMUM	WWPA	- WESTERN WOOD PRODI	ICTS
CONT	CONTINUOUS	N/A	NOT APPLICABLE		ASSOCIATION	
C.O.S. ——	CITY OF SCOTTSDALE	N.T.S. —	NOT TO SCALE	w/	- WITH	
CRSI	CONCRETE REINFORCING STEEL	0.C	ON CENTER	w/c	- WATER TO CEMENT RA	TIO
	INSTITUTE	0.F.W.	OUTSIDE FACE OF WALL	w/o	- WITHOUT	
DL	DEAD LOAD	OPP	OPPOSITE	' =		
ø OR DIA —	DIAMETER	OSHA	OCCUPATIONAL SAFETY AND			
	1		HEALTH ADMINISTRATION			
DETAIL NO.	City of Scottsdale	Y;				DETAIL NO
2265-7	Otendend Details Scottada	ale Standards &		SHFLIFR		2265-7
	<u> Standard Details Specifica</u>	ations Committee				
































































GENERAL NOTES

- 1. Backflow assemblies must be tested by a certified tester that is recognized by the City of Scottsdale.
- 2. Copper fittings shall be connected with lead free solder joints.
- 3. Finished grade underneath the backflow preventer shall be at 95% compaction.
- 4. All nipples to be copper or brass.
- 5. Piping under the City right of way must be type "K" copper.
- 6. Call for underground inspection before backfilling trench.
- 7. Vertical installations of assemblies on fire sprinkler systems are allowed using assemblies approved for use in the vertical position on fire systems.
- 8. Approvals for backflow assemblies must have Seal Approval from the American Society of Sanitation Engineers. Backflow assemblies installed on fire supression systems must also have approval from Underwriters Laboratories and/or Factory Mutual Research Corporation.

5/05/04 REVISED

> DETAIL NO. 2352



- 1. Backflow assemblies must be tested by a certified tester that is recognized by the City of Scottsdale.
- 2. 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
- 3. For backflow preventers requiring guard posts see Detail 2356. Backflow preventers enclosed by screening shall maintain a 24 inch clearance around the assembly.
- 4. 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.
- 6. Call for underground inspection before backfilling trench.
- 7. Approvals for backflow assemblies must have Seal Approval from the American Society of Sanitation Engineers. Backflow assemblies installed on fire supression systems must also have approval from Underwriters Laboratories and/or Factory Mutual Research Corporation.

DETAIL NO.

2353





- 1. Backflow assemblies must be tested by a certified tester that is recognized by the
- 2. Pressure vacuum breakers must be installed at least 12" above all downstream piping.
- 3. If this distance exceeds 24 inches, a reduced pressure principle backflow prevention assembly must be utilized. See Detail 2354.
- 4. Copper fittings shall be connected with lead
- 5. Finished grade underneath the backflow preventer shall be at 95% compaction.
- 6. All nipples to be copper or brass.
- Piping under the City right of way must be
- 8. Call for underground inspection before
- 9. Approvals for backflow assemblies must have Seal Approval from the American Society of Sanitation Engineers.

DETAIL NO.

2355





















	_ _	12"
		NO PARKING
REVISED 4/25/07	18"	FIRE 2.5" 1" 2.5" 1" 2.5" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1
	2365 Cit	y of Scottsdale andard Details APPROVED BY: Scottsdale Standards & Specifications Committee

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 substrate shall be a minimum of 12" x 18" treated aluminum with a thickness of 0.080".
- 6. The sign face shall have a white, ASTM Type IV reflective background with a red screen printed or translucent acrylic EC overlay film reflective legend. Use the standard sign face number R7-32 or equivalent incorporating additional information to complete the sign as shown.

FIRE LANE SIGN

DETAIL NO. 2365







REVISED 5/17/06






REVISED 2/27/02



REVISED 8/29/96



































REVISED 3/28/02











REVISED 6/19/95











	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)	₩ w (OUT TO OUT FRAME ANGLES)	A	В	
	30"	2X2X1/4	4X4X1/4	1-1/8ø	1/2 " ø	2X2X1/4	3/4"	3	5	34"	20"	SINGLE CENTE	HINGE RED	
	36"	2X2X1/4	4X4X1/4	1-1/8ø	3/4"ø	2-1/2X 2-1/2X1/4	1"	4	6	40"	26"	SINGLE CENTE	HINGE RED	
	42"	2X2X1/4	4X4X1/4	2-1/8ø	1/2"ø	2X2X1/4	3/4"	5	6	42"	32"	0	0	
	48"	3X3X7/16	5X3X1/4	2-1/8ø	3/4 " ø	2-1/2X 2-1/2X1/4	1"	5	7	47"	38"	3"	1 "	
/02	54"	3X3X7/16	5X3X1/4	2-1/8ø	3/4 " ø	2-1/2X 2-1/2X1/4	1"	6	8	54"	44"	5"	3"	
3/28	60"	3X3X7/16	5X3X1/4	2-1/8ø	3/4"ø	2-1/2X 2-1/2X1/4	1"	7	9	60"	50"	9"	4 "	
SED:	66"	3X3X7/16	5X3X1/4	2-1/8ø	3/4 " ø	2-1/2X 2-1/2X1/4	1"	8	10	66"	56"	11"	6"	
REV	72"	4X4X5/8	5X3X1/4	2-3/16ø	1"ø	3X3X3/8	1-1/4"	9	11	73"	62"	15"	7"	
	78"	4X4X5/8	5X3X1/4	2-3/16ø	1"ø	3X3X3/8	1-1/4"	10	11	79"	68"	17"	9"	
	84"	4X4X5/8	5X3X1/4	2-3/16ø	1"ø	3X3X3/8	1-1/4"	11	13	86"	74"	21"	10"	
	90"	4X4X5/8	5X3X1/4	2-3/16ø	1 " ø	3X3X3/8	1-1/4"	12	13	92"	80"	23"	12"	
	96"	4X4X5/8	5X3X1/4	2-3/16ø	1 " ø	3X3X3/8	1-1/4"	12	14	98"	86"	29"	12"	
	* _{N0}	TE: Adjust	t these va	lues for sl	kewed cor	nduits. Prov	ide 5" ma	ximum op	ening at e	ach side (and betwee	en bars.	L	
	DETAIL NO. 2562-2	City of Standar	Scottsda d Detail	le APPROVE Scott S Specif	D BY: sdale Star ications C	ndards & committee	BARRI	ER SP	ECIFIC	ATION	S SCHE	EDULE	DETAIL NO. 2562-2	

									MINIMUN	1 TI	RE	E S	IZE	REQUIREMEN	ΓS								
Name	Size	Height	Vidth	Caliper	Name	Size	Height Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Nidth	Caliper	Name	Size	Height	Width	Caliper
ACACIA			-	~	ACACIA (Cont.)		<u> </u>	+	ARGENTINE MESQUITE	15	5	3	0.75	VELVET\ ARIZONA (M)	15	5.5	3	0.5	SONORAN	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	(PROSOPIS VELUNTINA)	24	7	4	1	(CERCIDIUM PRAECOX)	24	7	4	1.5
(ACACIA SALIGNA)	24	8	4	1.5	(ACACIA PENDULA)	24	6.5 3	1.25		30	9	7	1.5	, ·	30	9	6	1.5	ľ	30	8	6	2
	30	10	5	2	1	30	95	2	1	36	11	9	2		36	10	8	2	Ī	36	10	8	2.5
	36	12	6	2.5	l!	36	11 6	2.5	1	42	13	11	2.5		42	12	10	2.5	Ī	42	11	10	3
BERLANDER\ GUAJILLO	15	4	2	0.5	WILLOW \	15	6 2	0.75		48	15	13	3		48	14	12	3		48	12	12	3.5
(M) (ACACIA BERLANDIERI)	24	5	4	1	AUSTRALIAN WILLOW	24	8 4	1.5	MESQUITE (Cont.)					PALOVERDE					SONORAN (M)	15	5	2	0.5
	30	7	5	1.5	(ACACIA SALICINA)	30	10 5	2	CHILEAN MESQUITE	15	6	2	0.75	BLUE PALO VERDE	15	6	2	0.75	(CERCIDIUM PRAECOX)	24	7	4	1
	36	9	6	2		36	14 6	2.5	(PROSOPIS CHILENSIS)	24	8	4	1.5	(CERCIDIUM FLORIDUM)	24	7.5	4	1.5	I	30	8	6	1.5
MULGA	15	5	2	0.75		Ē]	30	9	6	2		30	9	7	2	I	36	10	8	2
(ACACIA ANEURA)	24	7	4	1.5	<u>IRONWOOD</u>	\square				36	10	8	2.5		36	10	8	2.5		42	11	10	2.5
	30	9	6	2	DESERT IRONWOOD	15	32	0.5		42	12	10	3		42	12	9	3		48	12	12	3
	36	10	8	2.5	(OLNEYA TESOTA)	24	63	1.25		48	14	12	3.5		48	14	10	3.5	OTHER TREES			!	
SHOESTRING	15	7	2.5	0.75		30	86	2	CHILEAN MESQUITE (M)	15	5	3	0.5	BLUE PALO VERDE (M)	15	5	3	0.5	AFRICAN SUMAC	15	7	2	0.75
(ACACIA STENOPHYLLA)	24	9	4	1.5		36	10 8	2.5	(PROSOPIS CHILENSIS)	24	8	5	1	(CERCIDIUM FLORIDUM)	24	7	4	1	(RHUS LANCEA)	24	9	4	1.25
	30	11	5	2		42	11 9	3		30	9	7	1.5		30	8	6	1.5	ļ	30	11	6	2
	36	13	6	2.5		48	12 10) 3.5		36	10	9	2		36	10	8	2	ļ	36	12	8	2.5
	42	15	7	3	DESERT IRONWOOD (M)	15	3 2	0.5		42	12	11	2.5		42	12	9	2.5	ļ	42	14	8	3.5
	48	17	8	4	(OLNEYA TESOTA)	24	6 3	1.25	ļ	48	14	13	3		48	14	11	3		48	15	9	4
SHOESTRING (M)	15	7	2.5	0.5		30	86	2	HONEY MESQUITE (M)	15	6	2	0.75	LITTLE LEAF\ FOOTHILLS	15	4	2	0.5	AFRICAN SUMAC (M)	15	5	3	0.75
(ACACIA STENOPHYLLA)	24	9	4	1	4	36	10 8	2.5	(PROSOPIS -	24	8	4	1.5	(CERCIDIUM -	24	6	3	1	(RHUS LANCEA)	24	8	4.5	1
	36	13	6	2		42	11 9	3	GLANDULOSA)	30	9	6	2	MICROPHYLLUM)	30	7	5	1.5	ļ	30	9	7	1.5
SWEET	15	6	2.5	0.75		48	12 10) 3.5	4	36	10	8	2.5		36	8	6	2		36	11	8	2
(ACACIA SMALLII)	24	8	4	1.5	MESQUITE	L	\rightarrow	\perp		42	12	10	3	LITTLE LEAF\ FOOTHILLS	15	4	3	0.5	ļ	42	13	9	2.5
	30	9	6	2	ARGENTINE MESQUITE	15	6.5 2	0.75		48	14	12	3.5	(M) (CERCIDIUM -	24	5	4	1		48	16	10	3
	36	10	8	2.5	(PROSOPIS ALBA)	24	8 4	1.5	SCREW BEAN (M)	15	5.5	3	0.5	MICROPHYLLUM M)	30	6	5	1.5	ALEPPO	15	6	3	0.75
	42	12	10	3	4	30	96	2	(PROSOPIS -	24	8	4	1		36	8	7	2	(PINUS HALEPENSIS)	24	9	4	2
	48	14	12	3.5	4	36	11 8	2.5	PUBESCENS)	30	9	6	1.5		⊢	\square			ļ	30	11	6	3
<u>SWEET (M)</u>	15	5	3	0.5	4	42	13 10	1 3	4	36	10	8	2		⊢	\square			ļ	36	14	7	3.5
(ACACIA SMALLII)	24	8	5	1	4	48	15 12	3.5	4	42	12	10	3		⊢	\square			ļ	42	16	9	4
	30	9	7	1.5		L	\rightarrow	\perp		48	14	12	3.5		L	\square			ļ	48	18	10	4.5
	36	10	9	2		⊢–∔	\rightarrow	\downarrow	4						L	\square			ļ			!	,
	42	12	10	2.5	See General Notes	L	\rightarrow	\perp							L	\square					<u> </u>	!	,
	48	14	12	3	Page 3	ш									L				Page 1 of 3			!	. <u> </u>
DETAIL NO. City of Scottsdale APPROVED BY:																I	DETAIL NO.						
2600-1	Details	MINIM	MINIMUM TREE SIZE REQUIREMENTS 2600										0-	1									

						Μ	NI	MU	ΜT	REE SIZE REQ	UIR	EN	ИE	ENT	S										
Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliner	- anipai	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper
ARIZONA ASH	15	8	2	1	Canary Island Pine	15	6	2	0.75	COOLIBAH	15	7	3	3 0.7	75	FEATHER BUSH\	15	5	3	0.75	JACARANDA	15	8	2	0.75
(FRAXINUS VELUTINA)	24	10	4	1.5	(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	5 2	2	(LYSILOMA THORNBERI)	30	7	6.5	2		30	12	5	2.5
	36	14	8	2.5		36	17	5	4		36	15	6	5 2.	5		36	8	6	2.5		36	14	8	3
	42	15	9	3		42	18	6	4.5	CORK OAK	15	4	2	2 0.7	75	FEATHER BUSH\ FERN	15	4	3	0.75		42	16	8	3.5
	48	16	10	3.5		48	22	7	5.5	(QUERCUS SUBER)	24	6.5	З	3 1.	5	OF THE DESERT(M)	24	5	5	1		48	18	9	4
ARIZONA SYCAMORE	15	7	2	1	CAROB	15	8	2	0.75		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		36	12	6	3.	5		36	8	8	2	(JACARANDA-	24	8	5	0.75
	30	13	6	2.5		30	10	5	2		42	14	g	9 4		FICUS	15	8	2	0.75	ACUTIFOLIA)	30	10	6	1.5
	36	16	8	3.5		36	12	5	3		48	16	1	1 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 0.7	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 1.2	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	2 0.7	75	FICUS	15	5.5	3	0.5		30	10	5	2
	36	15	9	3		36	8	6	2.5	(CHILOPSIS LINEARIS)	24	7	4	↓ 1.2	25	(FICUS NITIDA M)	24	8	4	1		36	12	6	2.75
AUSTRALIAN WILLOW	15	5	3	0.75	CHINESE EVERGREEN	15	7	2	0.75		30	9	6	6 1.7	75		30	10	6	2	MEDITERANEAN FAN	15	2	2	N∖A
WILGA	24	8	4	1.25	ELM	24	8	3	1.25		36	10	8	3 2.2	25		36	12	8	2.5	PALM	24	3	3	N∖A
(GEIJERA PARVIFLORA)	30	10	5	2	(ULMUS PARVIFOLIA)	30	12	6	2	DESERT WILLOW (M)	15	5	3	3 0.7	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	5 1		(EUCALYPTUS RUDIS)	24	10	4	1.5		36	5	5	N∖A
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		36	10	8	3 2		(PRUNUS VARIETIES)	24	9	4	1.25	MOUNTAIN LAUREL	24	4	2	1
POPULNEUS)	30	12	5	4	CHINESE PISTACHE	15	7	2	0.75	ELDARICA	15	6	2	2 1.	5		30	11	8	2	(SOPHORA -	30	5	3	1.75
	36	15	6	5	(PISTACIA CHINENSIS)	24	9	4	1.5	(PINUS ELDARICA)	24	10	4	1 2	2		36	13	10	2.5	SECUNDIFLORA)	36	6	4	2
	42	17	8	6	-	30	10	5	2.5	-	30	13	4	4 3	5		42	15	11	3	MESCAL BEAN\ TEXAS	15	3	2	0.75
	48	20	9	6.5		36	12	6	3.5		36	15	5	5 4			48	17	12	3.5	MOUNTAIN LAUREL (M)	24	4	3	1
BRAZILIAN PEPPER	15	8	2	0.75	CHIR PINE\ INDIAN	15	5	3	1		42	18	7	4.	5	HONEY LOCUST	15	8	2	0.75	(SOPHORA -	30	5	4	1.5
(SCHINUS -	24	9	4	1.25	LONG LEAF	24	8	4	2		48	20	9	5.	5	(GLEDITSIA TRIACANTHOS	24	9	4	1.5	SECUNDIFLORA)	36	6	5	2
TEREBINTHIFOLLA)	30	10	5	2.5	(PINUS ROXBURGHII)	30	11	6	2.5	EVERGREEN PEAR	15	7	2	2 0.7	75	INERMIS)	30	10	6	2	MEXICAN PALO VERDE	15	7	3	1
	36	12	8	3		36	15	6.5	3.5	(PYRUS KAWAKAMI)	24	9	4	1.	5		36	12	8	2.5	JERUSALEM	24	9	6	1.5
CALIFORNIA PEPPER	15	7	2	0.75		42	17	8	4.5	-	30	10	6	§ 2.	5		42	14	10	3	(PARKINSONIA ACULEATA)	30	11	9	2.5
(SCHINUS MOLLE)	24	8	4	1.25		48	20	9	5	-	36	12	8	3 3.	5		48	16	12	3.5		36	12	10	3
	30	10	6	2.5						-	42	14	1	0 4								\square			
	36	12	8	3	See General Notes					-	48	16	1:	2 4.	5							\square			
					Page 3																	\vdash			
																					Page 2 of 3	\square			
DETAIL NO.	С	ity	of	Sco	ottsdale APPROV	ED BY	:																DETA	AIL N	О.
2600-2 Standard Details									MINIM	Uľ	Ν	T	R	Ξ	E SIZE RE	REQUIREMENTS 2600								2	

										MINIMUM TR	EE	SI	ZE	RE	QUIREMENTS									
Name	Size	Height	Nidth	Caliper	Name	Size	Height	Nidth	Caliper	Name	Size	Height	Nidth	Caliper	Name	Size	Height	Nidth	Caliper					
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	3	0.75					
(FRAXINUS V MODESTO)	24	4 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					
	36	14	7	2.5		36	14	8	2.5		36	10	8	2.5		36	12	8	3					
	42	16	8	3		42	16	10	3	SILVER DOLLAR GUM	15	7	3	0.75	TEXAS EBONY (M)	15	4	2	0.5					
	48	17	10	3.5		48	18	12	4	(EUCALYPTUS-	24	10	4	1.5	(PITHECELLUBIUM-	24	6	4	1					
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					
SWAMP MALLET	24	8	3	1	(EUCALYPTUS-	24	8	4	1.25	<u>SISSOO</u>	15	7	3	0.75		36	9	8	2					
(EUCALYPTUS -					ERYTHROCORYES)					(DALBERGIA SISSOO)	24	10	4	1.25		42	10	10	2.5					
SPATHULATA)					RED GUM	15	8	3	1		30	12	7	2.5		48	11	11	3					
OLEANDER	15	7	2	0.75	(EUCALYPTUS-	24	10	4	1.75		36	15	10	3	WEEPING BOTTLE	15	8	2	0.75					
(NERIUM OLEANDER)	24	9	4	1.25	CAMALDULENSIS)					SOUTHERN LIVE OAK	15	6	2	0.75	<u>BRUSH</u>	24	10	3.5	1.5					
	30	10	5	2	RED IRON BARK	15	8	3	0.75	<u>HERITAGE</u>	24	9	4	1.25	(CALLISTEMON VIMINALIS)	30	12	5	2					
	36	12	6	2.5	(EUCALYPTUS -	24	10	4	1.5	(QUERCUS VIRGINIANA)	30	11	6.5	2		36	14	7	2.5					
OLIVE TREE		5	3	0.5	SIDEROXYLON)						36	13	8	2.75	WEEPING WILLOW	15	8	2	1					
(OLEA EUROPAEA)	24	8	5.5	1.5	RIO GRANDE\ FAN	15	7	2	0.75		42	15	10	3.5	(SALIX BABYLONICA)	24	10	4	1.5					
	30	11	9	2	TEXAS ASH	24	9	4	1.25		48	17	12	4.5		30	12	6	2.5					
	36	12	10	3	(FRAXINUS V FANTEX)	30	12	5	2	TEXAS EBONY	15	5	2	0.75		36	14	8	4					
	42	14	12	3.5	-	36	14	8	2.5	(PITHECELLOBIUM-	24	6	3	1.5	WHITE IRON BARK	15	6.5	2.5	0.75					f
	48	16	14	4	-	42	15	9	3.5	FLEXICAULE)	30	7	4	2	(EUCALYPTUS -	24	8	3.5	1.25		\square			
ORCHID TREE	15	8	2	0.75		48	16	10	4		36	9	6	2.5	LEUCOXYLON)						\square			
(BAUHINIA)	24	9	4	1.25	SHAMEL\ EVERGREEN	15	8	2	1		42	10	6	3	YELLOW OLEANDER	15	6	2	0.5		\square			
	30	11	6	2	(FRAXINUS UHDEI)	24	10	4	1.5		48	11	7	3.5	(THEVETIA PERUVIANA)	24	8	4	1.25		\vdash			
	36	13	7	2.5	-	30	12	5	2.5						YELLOW OLEANDER(M)	15	4	3.5	0.5		\square			
ORNAMENTAL PEAR	15	7	2	1	-	36	14	8	3						(THEVETIA PERUVIANA)	24	6	5	0.75		\vdash			
(PYRUS CALLERYANA)	24	10	3.5	1.5	-	42	15	9	3.5												Ш			
	30	12	6	2.5		48	16	10	4						GENERAL NOTES									
	36	14	8	3	SILK OAK	15	8	3	1						• • • • • • •									
	42	16	10	3.5	(GREVILLEA ROBUSTA)	24	10	4	2	1. All trees shall	beg	guar	ante	ed for	one year from the date	of a	acce	ptan	ice					
	48	18	12	4	-	30	12	6	2.5	2. "M" designate	es a	mult	trun	k tree	. A multitrunk tree is a t	ree	with	mor	e thar	one main trunk.				
					-	36	14	7	3	3. Caliper is me	asur	ed a	t 12"	abov	e the ground for trees v	/ith	calip	per g	reater	than 4". For multitrunk	trees	S,		
					-					and trees with caliper of less that 4", the caliper is measured 6" above the ground.														
										4. Size is listed as the box size in inches except for those trees in 15 gallon containers.														
																				<u> </u>				
DETAIL NO.	C	ity	or	300	JUSUAIE APPROV	ED BY:						_									D	ETAI	L NC).
2600-3 Standard Details							MINIM	U	V	TF	RE	E SIZE RE	Q	U	IR	KEI	NENTS	26	60	0-	3			












NOTES:

- 1. POWER SOURCE FOR CONTROLLER TO BE HARD WIRED FROM CIRCUIT BREAKER MOUNTED INSIDE CABINET TO CONTROLLER.
- 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 #2845 G TO BE INSTALLED WITH SCORPIO CONTROLLER.
- 5. PROGRAMMING KEYPAD TO BE SUPPLIED WITH CONTROLLER.
- 6. INSTALL ONLY ONE CONTROL VALVE WIRE PER CONTROLLER OUTPUT.
- 7. UHF RADIO TO BE TUNED TO C.O.S. FREQUENCIES. CONTACT IRRIGATION DEPARTMENT FOR INFORMATION (480-312-2189)

8. POWER SOURCE TO BE PROVIDED BY CONTRACTOR FOLLOWING NEC REQUIREMENTS. INSTALLATION TO BE INSPECTED AND APPROVED BY COS INSPECTOR. INSTALL METAL ADDRESS LABLES TO OUTSIDE DOOR OF IRRIGATION CONTROLLER CABINETS FOR ALL CONTROLLERS RECEIVING NON-METERED POWER SUPPLY.

DETAIL NO.City of Scottsdale2633Standard DetailsSp	Scottsdale Standards & Specifications Committee
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SCORPIO WALL MOUNTED CONTROLLER













2641-1

DETAIL NO.

2641-1





REVISED: 05/01/07



REVISED: 4/25/0/



DETAIL NO.

2644



REVISED: 2/27/02









REVISED: 7/15/03

2649











WIRE SIZE (AWG)	MAXIMUM TO BE IN SCHEDUL 2"	NUMBER ISTALLED I E 40 PVC 2–1/2"	OF WIRES N A SLEEVE 3"	WIRE SIZE (AWG)
14	25	40	56	14
12	20	33	50	12

<u>NOTE:</u>

1. ALL WIRE SLEEVES TO BE SHC. 40 PVC AND SHALL BE INSTALLED WITH A MINIMUM OFFSET AT THE JOINTS TO PERMIT EASY INSTALLATION AND REMOVAL OF CONTROL AND COMMON WIRES. ALL WIRES SHALL BE INSTALLED IN SLEEVES UNDER THE PAVED AREAS. SLEEVES SHALL EXTEND AT LEAST 12" BEYOND THE EDGES OF THE PAVEMENT. SIZE OF SLEEVES SHALL BE AS SHOWN.



APPROVED BY: Scottsdale Standards & Specifications Committee

IRRIGATION WIRE SLEEVING CHART











