

\\US0310-PPFS01\WORKGROUP\1817\Active\181711207\700_CADD\Sheet_Files\11207-SG002_SIGNING_002.dwg 10/3/2025 2:59:06 PM

ROADWAY SIGNING PLAN GENERAL NOTES

1. THE TOWN TRAFFIC ENGINEER SHALL BE NOTIFIED AT (480) 358-3132 AT LEAST FIVE BUSINESS DAYS PRIOR TO BEGINNING ANY SIGNING WORK ASSOCIATED WITH THESE PLANS.
2. THE TOWN TRAFFIC ENGINEER MAY REQUIRE THE CONTRACTOR TO ADJUST SIGNING LOCATIONS, OFFSETS AND TYPES OF SIGNS AT THE TIME OF INSTALLATION.
3. ALL SIGNING MATERIALS AND INSTALLATION SHALL CONFORM TO TOWN REQUIREMENTS, THE ARIZONA DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS AND SPECIFICATIONS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST ADOT APPROVED EDITION), AND DIRECTION FROM THE TOWN TRAFFIC ENGINEER AT THE TIME OF INSTALLATION.
4. THE CONTRACTOR SHALL COORDINATE WITH THE TOWN TRAFFIC ENGINEERING DIVISION PRIOR TO ORDERING ANY MATERIALS TO OBTAIN THE LATEST SIGNING REQUIREMENTS AND SPECIFICATIONS.
5. THE CONTRACTOR SHALL NOTIFY THE TOWN TRAFFIC ENGINEERING DIVISION AT (480) 358-3132 UPON COMPLETION OF ALL SIGNING WORK TO SCHEDULE A FINAL INSPECTION. THE CONTRACTOR SHALL SUPPLY ALL REQUIRED WARRANTY DOCUMENTS TO THE TOWN TRAFFIC ENGINEERING DIVISION PRIOR TO FINAL JOB ACCEPTANCE.
6. ALL EXISTING SIGNS TEMPORARILY REMOVED BY THE CONTRACTOR SHALL BE SALVAGED FOR REINSTALLATION BY THE CONTRACTOR. ALL SIGNS PERMANENTLY REMOVED BY THE CONTRACTOR SHALL BE SALVAGED AND RETURNED TO THE TOWN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING EACH SIGN THAT IS REMOVED, ENSURING THAT THE SIGN'S INTEGRITY IS MAINTAINED. IN THE EVENT THE SIGN IS DAMAGED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REPLACEMENT.
7. ALL POST MOUNTED SIGNS AND SIGN POSTS SHALL BE INSTALLED PER ADOT STANDARD DRAWING S-3. LIGHT POLE MOUNTED SIGNS SHALL BE INSTALLED PER ADOT STANDARD DRAWING S-9.
8. FINAL ACCEPTANCE OF ALL SIGNING SHALL BE PROVIDED BY THE TOWN TRAFFIC ENGINEERING DIVISION.
9. THE CONTRACTOR SHALL ENSURE THAT AT NO TIME A TRAFFIC SIGN IS INSTALLED IN SUCH A WAY AS TO BE BLOCKED BY TREES OR ANY TYPE OF VEGETATION. IN SUCH CASES, THE CONTRACTOR SHALL CONTACT THE TOWN'S TRAFFIC ENGINEERING SECTION TO PROVIDE AN ALTERNATIVE LOCATION FOR THE INSTALLATION OF SIGNING IN QUESTION.
10. ANY SIGNING THAT IS TO BE AFFIXED TO A STREET LIGHT POLE SHALL BE DONE SO USING A MINIMUM ¾ INCH STAINLESS STEEL BANDING WITH APPROPRIATE FASTENERS.
11. ANY SIGNING INSTALLED WITHIN THE TOWN'S RIGHT OF WAY SHALL BE INSTALLED BY AN INDIVIDUAL THAT HAS A CURRENT CERTIFICATION IN SIGNING INSTALLATION OR INSPECTION FROM THE AMERICAN TRAFFIC SAFETY ASSOCIATION (ATSSA) OR INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION (IMSA). EQUIVALENTS WILL BE CONSIDERED BUT MUST BE SUBMITTED IN WRITING TO THE TOWN'S TRAFFIC ENGINEER 30 DAYS PRIOR TO INSTALLATION OF ANY SIGNING.

SIGN MATERIAL REQUIREMENTS

1. ALL SIGNS SHALL BE FACED ON NEW .080 INCH ALUMINUM BLANKS.
2. SHEETING SHALL BE ASTM TYPE XI FOR ALL PERMANENT REGULATORY, WARNING, GUIDE, INFORMATION, AND OBJECT MARKER SIGNS (INCLUDING SIGN LEGENDS AND BORDERS).
3. ALL WARNING SIGNS (YELLOW SERIES) SHALL BE MANUFACTURED WITH ASTM TYPE XI 3M FLUORESCENT YELLOW 4081 DIAMOND GRADE REFLECTIVE SHEETING OR APPROVED EQUAL.
4. ALL SCHOOL SIGNS SHALL BE MANUFACTURED WITH ASTM TYPE XI 3M FLUORESCENT YELLOW GREEN 4083 DIAMOND GRADE REFLECTIVE SHEETING OR APPROVED EQUAL.
5. SHEETING SHALL BE MANUFACTURED BY 3M CORPORATION OR AN APPROVED EQUAL WITH EQUAL OR GREATER WARRANTY PERIODS. ALL SIGNS SHALL BE MANUFACTURED USING MATCHING COMPONENTS APPROVED BY THE SHEETING MANUFACTURER.
6. ALL SIGNS SHALL BE LABELED ON THE BACK BOTTOM RIGHT CORNER WITH A DECAL. THE DECAL SHALL STATE THE SIGN IS PROPERTY OF THE TOWN OF QUEEN CREEK AND IDENTIFY THE MANUFACTURER AND DATE OF INSTALLATION

STREET NAME SIGN REQUIREMENTS

1. ALL REFLECTIVE SHEETING MATERIALS SHALL BE PRESSURE SENSITIVE ASTM TYPE XI 3M WHITE 4090 DIAMOND GRADE REFLECTIVE SHEETING OR APPROVED EQUAL.
2. ALL TRANSPARENT ACRYLIC, PRESSURE SENSITIVE FILM SHALL BE 3M SERIES 1177 GREEN ELECTRO CUT FILM (OR 3M SERIES 1175 BLUE ELECTRO CUT FILM) OR APPROVED EQUAL.
3. SIGNS SHALL BE MANUFACTURED BY APPLYING WHITE SHEETING TO THE ENTIRE ALUMINUM BLANK, THEN A GREEN (OR BLUE AS REQUIRED) TRANSLUCENT PRESSURE SENSITIVE FILM CONTAINING THE CUT OUT STREET NAME. THIS METHOD RESULTS IN A WHITE LEGEND ON A GREEN (OR BLUE) BACKGROUND.
4. LETTERING SHALL BE CLEARVIEW 2-W FONT (UPPER/LOWER CASE).
5. 8 INCH LETTER HEIGHTS SHALL BE USED FOR ALL INTERSECTIONS ALONG AN ARTERIAL STREET WITH 45 MPH OR HIGHER SPEED LIMITS. THESE SIGNS SHALL USE A 16 INCH HIGH BLADE AND SHALL NOT EXCEED 42 INCHES IN WIDTH WITHOUT PRIOR APPROVAL FROM THE TOWN TRAFFIC ENGINEER.
6. 6 INCH LETTER HEIGHTS SHALL BE USED FOR ALL INTERSECTIONS ALONG AN ARTERIAL OR COLLECTOR STREET WITH 30 MPH TO 40 MPH SPEED LIMITS. THESE SIGNS SHALL USE A 12 INCH HIGH BLADE AND SHALL NOT EXCEED 42 INCHES IN WIDTH WITHOUT PRIOR APPROVAL FROM THE TOWN TRAFFIC ENGINEER.
7. 4 INCH LETTER HEIGHTS SHALL BE USED FOR ALL INTERSECTIONS ALONG RESIDENTIAL STREETS WITH 25 MPH OR LESS SPEED LIMITS. THESE SIGNS SHALL USE AN 8 INCH HIGH BLADE AND SHALL NOT EXCEED 42 INCHES IN WIDTH WITHOUT PRIOR APPROVAL FROM THE TOWN TRAFFIC ENGINEER.

STREET NAME SIGNS - NO OUTLET/DEAD END

1. ALL REFLECTIVE SHEETING MATERIALS SHALL BE PRESSURE SENSITIVE ASTM TYPE XI SERIES 4090 WHITE AND SERIES 4091 YELLOW DIAMOND GRADE REFLECTIVE SHEETING OR APPROVED EQUAL.
2. ALL ACRYLIC, PRESSURE SENSITIVE FILM SHALL BE 3M SERIES 1177 GREEN ELECTRO CUT FILM (OR 3M SERIES 1175 BLUE ELECTRO CUT FILM) AND 3M 1178 BLACK EC FILM OR APPROVED EQUAL.
3. THESE SIGNS ARE CONSTRUCTED BY APPLYING WHITE SHEETING TO THE UPPER HALF OF THE SIGN BLANK AND YELLOW SHEETING TO THE LOWER HALF OF THE SIGN BLANK. ON TOP OF THE WHITE SHEETING, A GREEN (OR BLUE) TRANSLUCENT PRESSURE SENSITIVE FILM CONTAINING THE CUT OUT STREET NAME IS APPLIED. ON TOP OF THE YELLOW SHEETING, THE BLACK "DEAD END" OR "NO OUTLET" AND BLACK ARROW ARE APPLIED.
4. LETTERING FOR THE STREET NAME SHALL BE CLEARVIEW 2-W FONT (UPPER/LOWER CASE) WITH 4 INCH, 6 INCH, OR 8 INCH LETTERING HEIGHT DEPENDING UPON THE LOCATION.
5. LETTERING FOR THE "DEAD END" OR "NO OUTLET" SHALL BE HIGHWAY GOTHIC SERIES C FONT.
6. SIGN HEIGHTS SHALL BE 16 INCHES OR 24 INCHES AND SHALL NOT EXCEED 42 INCHES IN WIDTH WITHOUT PRIOR APPROVAL FROM THE TOWN TRAFFIC ENGINEER.
7. THE CONTRACTOR MAY BE REQUIRED TO SUBMIT SIGNING PROOFS TO THE TOWN TRAFFIC ENGINEER FOR APPROVAL PRIOR TO MANUFACTURING.

WARRANTY DOCUMENTS



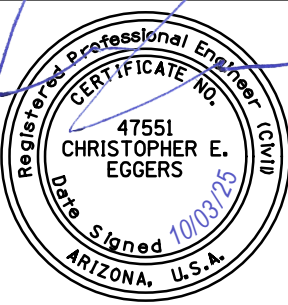

1. THE MANUFACTURER OF THE SIGNING SHALL PROVIDE WARRANTY DOCUMENTS COVERING MATERIALS AND MANUFACTURING DEFECTS UP TO TEN (10) YEARS. THESE DOCUMENTS SHALL BE ADDRESSED TO THE TOWN OF QUEEN CREEK AND SHALL PROVIDE THE NAME OF THE SHEETING MANUFACTURER, TYPE OF SHEETING (BRAND AND TYPE), TYPE OF OVERLAY FILM (BRAND AND TYPE), NAME AND CONTACT INFORMATION OF THE COMPANY RESPONSIBLE PARTY MANUFACTURING THE SIGNS THAT SHALL BE RESPONSIBLE FOR ANY WARRANTY CLAIMS.

PAVEMENT MARKING PLAN GENERAL NOTES

1. THE CONTRACTOR SHALL COORDINATE WITH THE TOWN TRAFFIC ENGINEERING DIVISION AT (480) 358-3132 FOR AN INSPECTION PRIOR TO THE APPLICATION OF ANY PAINT.
2. AFTER MEETING WITH THE TOWN TRAFFIC ENGINEER, THE CONTRACTOR SHALL SPOT MARK THE ENTIRE PROJECT AND HAVE THE LAYOUT APPROVED BY THE TOWN TRAFFIC ENGINEER PRIOR TO THE APPLICATION OF ANY PAINT. ONCE ALL PAVEMENT MARKINGS HAVE BEEN INSTALLED, THE CONTRACTOR SHALL NOTIFY THE TOWN TRAFFIC ENGINEER FOR A FINAL INSPECTION. AT COMPLETION OF THE FINAL INSPECTION, THE CONTRACTOR SHALL SUPPLY ALL REQUIRED WARRANTY DOCUMENTS TO THE TOWN TRAFFIC ENGINEER PRIOR TO FINAL JOB ACCEPTANCE.
3. THE TOWN TRAFFIC ENGINEER MAY REQUIRE THE CONTRACTOR TO ADJUST PAVEMENT MARKING LOCATIONS, OFFSETS AND TYPES OF MARKINGS PRIOR TO INSTALLATION.
4. ANY PAVEMENT MARKINGS APPLIED PRIOR TO INSPECTION AND APPROVAL BY THE TOWN TRAFFIC ENGINEERING DIVISION SHALL BE OBLITERATED, SEALED AND RESTRIPE AT THE CONTRACTOR'S EXPENSE.
5. ALL CONFLICTING PAVEMENT MARKINGS SHALL BE OBLITERATED BY MEANS OF WATER BLASTING TO BE COMPLETED BY THE CONTRACTOR.
6. A SEALANT APPROVED BY THE TOWN SHALL BE APPLIED BY THE CONTRACTOR TO ALL AREAS OF PAVEMENT MARKING OBLITERATION.
7. ALL PAVEMENT MARKING MATERIALS AND INSTALLATION SHALL CONFORM TO TOWN REQUIREMENTS, THE ARIZONA DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS AND SPECIFICATIONS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST ADOT APPROVED EDITION), AND DIRECTION FROM THE TOWN TRAFFIC ENGINEER AT THE TIME OF INSTALLATION.
8. PAVEMENT MARKINGS SHALL REQUIRE TWO (2) SEPARATE APPLICATIONS. THE INITIAL APPLICATION SHALL BE ENTIRELY IN PAINT TO INCLUDE ALL LANE LINES, HOLDING BARS, CROSSWALKS AND STOP BARS. ALL LEGENDS SHALL BE APPLIED WITH AN APPROVED TAPE PRODUCT AT THIS TIME. RAISED PAVEMENT MARKERS (RPM'S) SHALL BE INSTALLED WITH THE INITIAL PAINT INSTALLATION. THE CONTRACTOR SHALL RETURN 30-45 DAYS FOLLOWING THE INITIAL PAINT INSTALLATION AND RESTRIPE THE ENTIRE PROJECT IN THERMOPLASTIC OR AS DIRECTED BY THE TOWN TRAFFIC ENGINEER.
9. ALL PERMANENT PAVEMENT MARKING MATERIALS ON MAJOR ARTERIALS SHALL BE EXTRUDED THERMOPLASTIC. ALL OTHER ROADWAYS SHALL REQUIRE SPRAY THERMOPLASTIC AT A MINIMUM UNLESS OTHERWISE SPECIFIED BY THE TOWN TRAFFIC ENGINEER. PERMANENT PAVEMENT MARKINGS SHALL BE USED ONLY WHERE SPECIFIED OR NOTED.
10. ALL PAVEMENT MARKING TRANSVERSE LINES AND CHANNELIZING LINES SHALL BE EXTRUDED OR SPRAY THERMOPLASTIC. ALL PAVEMENT MARKING SYMBOLS AND LEGENDS SHALL BE 3M SERIES 380 TAPE OR APPROVED EQUIVALENT. THE TOWN TRAFFIC ENGINEER RESERVES THE RIGHT TO MODIFY THE PAVEMENT MARKING MATERIAL TO 3M SERIES 270 TAPE OR AN APPROVED EQUIVALENT AT THEIR SOLE DISCRETION.
11. ALL RAISED PAVEMENT MARKERS SHALL BE INSTALLED WITH CRAFTCO PAVEMENT REFLECTOR ADHESIVE OR AN APPROVED EQUIVALENT.
12. ALL MEDIAN NOSES SHALL BE PAINTED PER MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION (MCDOT) PAVEMENT MARKING MANUAL; STANDARD PAVEMENT MARKINGS, DRAWINGS 4-15 AND 4-16.

PAVEMENT MARKING AND SIGNING NOTE PROVISIONS:

1. THE TOWN RESERVES THE RIGHT TO MODIFY THESE NOTES, TO REJECT ITEMS INCLUDED IN THE NOTES, OR TO ACCEPT ITEMS NOT INCLUDED IN THE NOTES, AT ANY TIME, WITHOUT PRIOR NOTICE, IF DETERMINED NECESSARY IN THE BEST INTERESTS OF THE TOWN.
2. PRODUCTS NOT COVERED BY THESE NOTES SHALL BE SUBMITTED TO THE TOWN TRAFFIC ENGINEERING DIVISION FOR REVIEW AND APPROVAL PRIOR TO ORDERING.
3. BRAND NAMES STATED MAY BE REGISTERED TRADEMARKS OF THEIR RESPECTIVE MANUFACTURERS.

<div>Contact Arizona 811 at least two full working days before you begin excavation</div> <div><div>Call 811 or click Arizona811.com</div></div>		<div></div> <div>TOWN OF QUEEN CREEK</div>
<div></div>	<div>POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY AND DRAINAGE IMPROVEMENTS</div>	
	<div><div>3133 West Frye Road Chandler, Arizona 85226 Tel. 480.687.6100 www.stantec.com</div></div>	
<div>SIGNING AND STRIPING LEGEND</div>		
DESIGNED BY	MH	CIP PROJ NO. A1405
DRAWN BY	BE	
DRAWING NO. SG002		SHEET 65 OF 133

PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025


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SIGNING SUMMARY

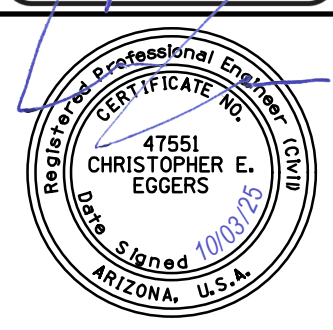
STA.	SIGN CODE	WORK				OFFSET FROM EP		PANEL					GROUND MOUNT						POLE MOUNT	NOTES
		NEW	EXISTING		SEE NOTES			LEGEND	SIGN SIZE		SHEETING TYPE AREA (sq. ft.)	POSTS								
			RELOCATE	REMOVE & SALVAGE		WIDTH (in)	HEIGHT (in)		NO. POSTS	TYPE (length)		FOUNDATIONS		TYPE. C (ea)						
										P (ft)	U (ft)	P (ea)	U (ea)							
153+31	R3-5fP				X			Right Lane (Plaque)											To Remain	
153+31	R3-5R				X			Mandatory Movement Lane Right											To Remain	
153+48	R3-5fP				X			Right Lane (Plaque)											To Remain	
153+48	R3-5R				X			Mandatory Movement Lane Right											To Remain	
154+93	R3-17				X			Bicycle Lane Only (Symbol)											To Remain	
155+07	R3-5fP				X			Right Lane (Plaque)											To Remain	
155+07	R3-5R				X			Mandatory Movement Lane Right											To Remain	
155+22	R3-5fP				X			Right Lane (Plaque)											To Remain	
155+22	R3-5R				X			Mandatory Movement Lane Right											To Remain	
155+60	W4-2R	X					4.5	Lane Ends	36	36	9.00		1.00	13.00		1.00				
156+61	R3-5fP	X			X	13.3		Right Lane (Plaque)	30	12	2.50								Above R3-5R	
156+61	R3-5R	X				13.3		Mandatory Movement Lane Right	30	36	7.50		1.00	13.00		1.00				
156+73	R3-5fP			X				Right Lane (Plaque)												
156+73	R3-5R			X				Mandatory Movement Lane Right												
157+28	R3-17	X			X		4.5	Bicycle Lane Only (Symbol)	30	24	5.00						2		On Light Pole	
159+52	S4-3P				X			School											To Remain	
159+52	R2-1-35				X			Speed Limit 35											To Remain	
159+52	S4-4P				X			When Flashing											To Remain	
161+64	R5-1				X			Do Not Enter											To Remain	
161+64	RX-X				X			Except Buses											To Remain	
161+95	R5-1				X			Do Not Enter											To Remain	
161+95	RX-X				X			Except Buses											To Remain	
161+96	R3-5fP				X			Right Lane (Plaque)											To Remain	
161+96	R3-5R				X			Mandatory Movement Lane Right											To Remain	
163+28	R3-5fP	X			X		5.5	Right Lane (Plaque)	30	12	2.50						2		Above R3-5R, On Light Pole	
163+28	R3-5R	X			X		5.5	Mandatory Movement Lane Right	30	36	7.50						2		On Light Pole	
165+27	R3-5fP				X			Right Lane (Plaque)											To Remain	
165+27	R3-5R				X			Mandatory Movement Lane Right											To Remain	
166+28	R3-17	X			X	4.5		Bicycle Lane Only (Symbol)	30	24	5.00						2		On Light Pole	
166+28	R8-3	X			X	4.5		No Parking (Symbol)	30	30	6.25						2		On Light Pole	
167+25	R3-5fP	X			X		10	Right Lane (Plaque)	30	12	2.50						2		Above R3-5R, On Light Pole	
167+25	R3-5R	X			X		10	Mandatory Movement Lane Right	30	36	7.50						2		On Light Pole	
167+68	D3-1			X				Power Road												
											55.25	0.00	2.00	26.00	0.0	2.00	0.0	14.0	SUB-TOTAL	

H= HIGH INTENSITY PRISMATIC SHEETING
D= DIAMOND GRADE SHEETING
DESIGN SPEED= 55 MPH
P= PERFORATED POSTS
U= U-CHANNEL POST
C= BAND-TYPE CLAMP

Contact Arizona 911 at least two full working days before you begin excavation




Call 911 or click Arizona911.com



TOWN OF
QUEEN CREEK

POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS



3133 West Frye Road
Chandler, Arizona 85226
Tel. 480.487.6100
www.stantec.com

SIGNING SUMMARY			
DESIGNED BY	MH	CIP PROJ NO. A1405	
DRAWN BY	BE		
DRAWING NO. SG003		SHEET 66 OF 133	

PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

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SIGNING SUMMARY


STA.	SIGN CODE	WORK				OFFSET FROM EP		PANEL				GROUND MOUNT						POLE MOUNT	NOTES
		NEW	EXISTING		SEE NOTES			LEGEND		SIGN SIZE		SHEETING TYPE AREA (sq. ft.)	POSTS						
			RELOCATE	REMOVE & SALVAGE		WIDTH (in)	HEIGHT (in)			NO. POSTS	TYPE (length)		FOUNDATIONS		TYPE. C (ea)				
											P (ft)	U (ft)	P (ea)	U (ea)					
167+68	R10-6			X				Stop Here On Red (With Oblique Arrow)											
167+68	RX-X			X				Private Road											
170+26	S4-3P		X		X	3.7		School										Relocate Existing	
170+26	R2-1-35		X		X	3.7		Speed Limit 35										Relocate Existing	
170+26	S4-4P		X		X	3.7		When Flashing										Relocate Existing	
170+78	R3-5fP				X			Right Lane (Plaque)										To Remain	
170+78	R3-5R				X			Mandatory Movement Lane Right										To Remain	
172+05	R1-1				X			Stop										To Remain	
172+15	S1-1	X			X	4.5		School Sign	36	36		9.00					2	On Light Pole	
172+15	S4-3P	X			X	4.5		School	36	12		3.00					2	On Light Pole	
172+36	S1-1			X				School Sign											
172+36	S4-3P			X				School											
173+35	R3-5fP	X			X		5.6	Right Lane (Plaque)	30	12	2.50						2	Above R3-5R, On Light Pole	
173+35	R3-5R	X			X		5.6	Mandatory Movement Lane Right	30	36	7.50						2	On Light Pole	
175+57	R1-1				X			Stop										To Remain	
177+10	R3-9b	X			X	4.5		Two-Way Left Turn Only	24	36	6.00						2	On Light Pole	
178+38	W11-7	X			X		4.4	Equestrian	36	36	9.00						2	On Light Pole	
179+60	R3-17	X			X	4.5		Bicycle Lane Only (Symbol)	30	24	5.00						2	On Light Pole	
179+60	R8-3	X			X	4.5		No Parking (Symbol)	30	30	6.25						2	On Light Pole	
180+05	OM3-R			X				Type 3 Object Marker Right											
180+96	RX-X2*	X			X			Flashing Hand Stop Do Not Enter Crosswalk	36	36	9.00						2	Custom Sign, On Traffic Signal Pole	
181+15	OM1-3			X				Object Marker											
181+21	D3-1			X				Power Road											
181+21	D3-1			X				Cloud Road											
181+21	R1-1			X				Stop											
181+34	OMX-X			X				Object Marker											
181+34	OMX-X			X				Object Marker											
181+35	M-2			X				Type 2 Object Marker											
181+35	OMX-X			X				Object Marker											
181+35	OMX-X			X				Object Marker											
181+70	D3-1			X				Power Road											
181+70	R1-1			X				Stop											
181+70	OM1-3			X				Object Marker											
181+70	OM1-3			X				Object Marker											
											45.25	12.00	0.00	0.00	0.00	0.00	18.00	SUB-TOTAL	

*SEE TRAFFIC SIGNAL SHEETS
H= HIGH INTENSITY PRISMATIC SHEETING
D= DIAMOND GRADE SHEETING
DESIGN SPEED= 55 MPH

P= PERFORATED POSTS
U= U-CHANNEL POST
C= BAND-TYPE CLAMP


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SIGNING SUMMARY

DESIGNED BY MH

DRAWN BY BE

CIP PROJ NO. A1405

DRAWING NO. SG004

SHEET 67 OF 133

PROJECT NO. A1405, POWER ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

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SIGNING SUMMARY

STA.	SIGN CODE	WORK				OFFSET FROM EP		PANEL					GROUND MOUNT						POLE MOUNT	NOTES
		NEW	EXISTING		SEE NOTES			LEGEND			SIGN SIZE		SHEETING TYPE AREA (sq. ft.)	POSTS						
			RELOCATE	REMOVE & SALVAGE		WIDTH (in)	HEIGHT (in)				NO. POSTS	TYPE (length)		FOUNDATIONS		TYPE. C (ea)				
								P (ft)	U (ft)	P (ea)		U (ea)								
181+73	RX-X2*	X			X			Flashing Hand Stop Do Not Enter Crosswalk	36	36	9.00							2	Custom Sign, On Traffic Signal Pole	
181+75	RX-X2*	X			X			Flashing Hand Stop Do Not Enter Crosswalk	36	36	9.00							2	Custom Sign, On Traffic Signal Pole	
181+75	RX-X2*	X			X			Flashing Hand Stop Do Not Enter Crosswalk	36	36	9.00							2	Custom Sign, On Traffic Signal Pole	
183+35	R3-17	X			X		4.4	Bicycle Lane Only (Symbol)	30	24	5.00							2	On Light Pole	
183+35	R8-3	X			X		4.4	No Parking (Symbol)	30	30	6.25							2	On Light Pole	
184+55	W11-7	X			X	4.5		Equestrian	36	36	9.00							2	On Light Pole	
185+85	R2-1-45	X			X		4.4	Speed Limit 45	30	36	7.50							2	On Light Pole	
186+45	R2-1-45			X				Speed Limit 45												
192+09	R2-1-45	X			X	4.4		Speed Limit 45	30	36	7.50							2	On Light Pole	
193+35	R3-9b	X			X		4.4	Two-Way Left Turn Only	24	36	6.00							2	On Light Pole	
194+58	R3-17	X			X	4.4		Bicycle Lane Only (Symbol)	30	24	5.00							2	On Light Pole	
194+58	R8-3	X			X	4.4		No Parking (Symbol)	30	30	6.25							2	On Light Pole	
196+19	R1-1				X			Stop											To Remain	
196+80	RX-X			X				Bike Lane Ends												
199+23	R1-1				X			Stop											To Remain	
199+72	R3-5R				X			Mandatory Movement Lane Right											To Remain	
200+55	R3-5fp				X			Right Lane (Plaque)											To Remain	
200+55	R3-5R				X			Mandatory Movement Lane Right											To Remain	
201+70	R1-1				X			Stop											To Remain	
202+30	R3-5R				X			Mandatory Movement Lane Right											To Remain	
202+29	R3-17	X			X		14	Bicycle Lane Only (Symbol)	30	24	5.00							2	On Light Pole	
202+29	R8-3	X			X		14	No Parking (Symbol)	30	30	6.25							2	On Light Pole	
204+00	R3-5fp				X			Right Lane (Plaque)											To Remain	
204+00	R3-5R				X			Mandatory Movement Lane Right											To Remain	
204+21	R4-7				X			Keep Right (Symbol)											To Remain	
204+21	OM3-L				X			Type 3 Object Marker Left											To Remain	
204+34	R2-1-45				X			Speed Limit 45											To Remain	
204+34	R4-4				X			Begin Right Turn Yield To Bikes											To Remain	
204+78	R1-1				X			Stop											To Remain	
205+37	R3-5R				X			Mandatory Movement Lane Right											To Remain	
207+31	R4-4				X			Begin Right Turn Yield To Bikes											To Remain	
207+53	W9-101L				X			Thru Traffic Merge Left											To Remain	
207+79	R4-7				X			Keep Right (Symbol)											To Remain	
207+79	OM3-L				X			Type 3 Object Marker Left											To Remain	
											90.75	0.00	0.00	0.0	0.0	0.0	0.0	26.0	SUB-TOTAL	
											191.25	12.00	2.00	26.00	0.00	2.00	0.00	58.00	TOTAL (A1405)	

H= HIGH INTENSITY PRISMATIC SHEETING

D= DIAMOND GRADE SHEETING

DESIGN SPEED= 55 MPH


P= PERFORATED POSTS

U= U-CHANNEL POST


C= BAND-TYPE CLAMP


*= FOR CUSTOM SIGN ON TRAFFIC SIGNAL POLE, SEE DRAWING NO. TS004 FOR DETAILS.

Contact Arizona 911 at least two full working days before you begin excavation




Call 911 or click Arizona911.com





TOWN OF
QUEEN CREEK

POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS



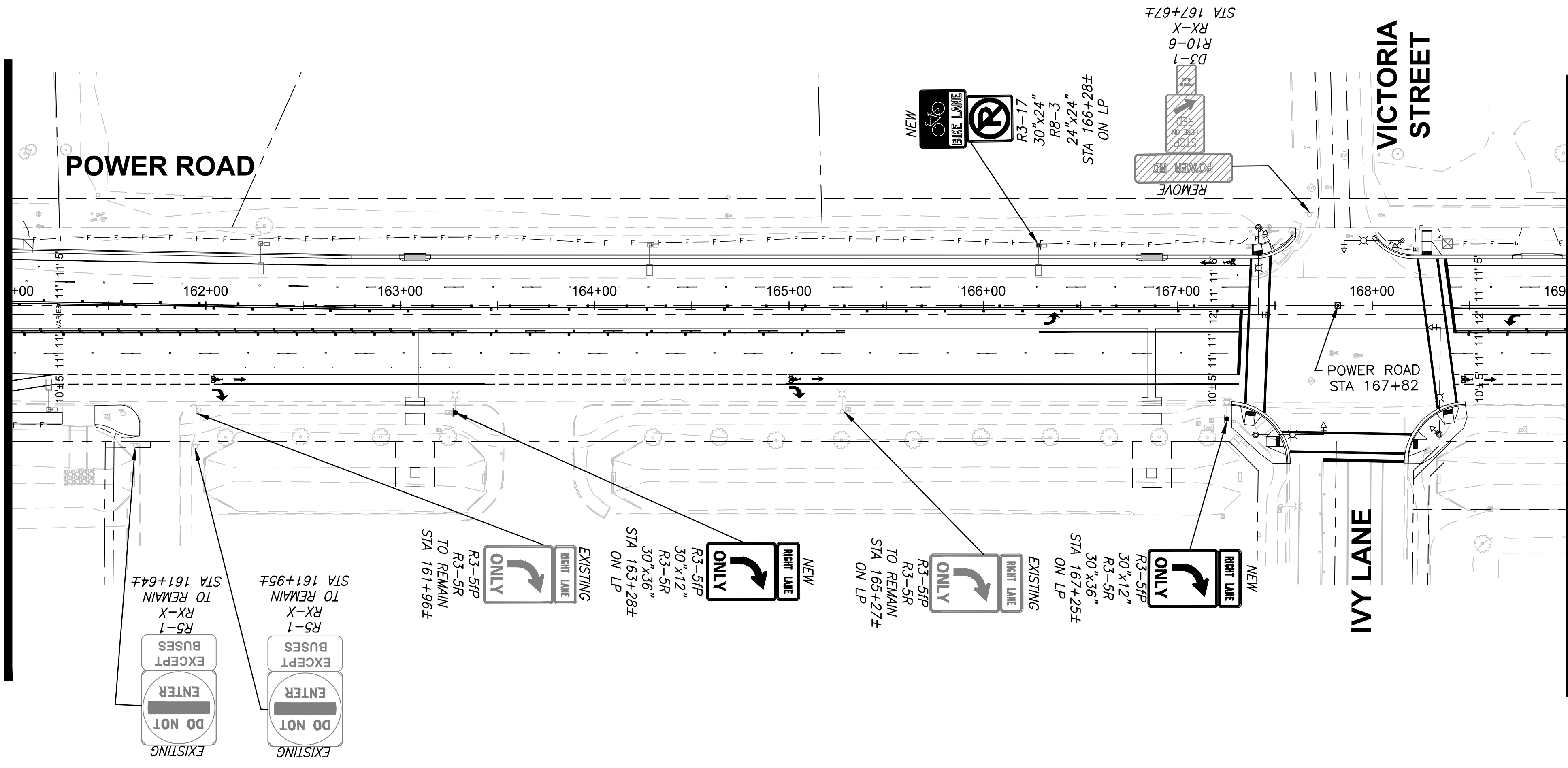
3133 West Frye Road
Chandler, Arizona 85226
Tel. 480.487.6100
www.stantec.com

SIGNING SUMMARY		
DESIGNED BY	MH	CIP PROJ NO. A1405
DRAWN BY	BE	
DRAWING NO. SG005		SHEET 68 OF 133

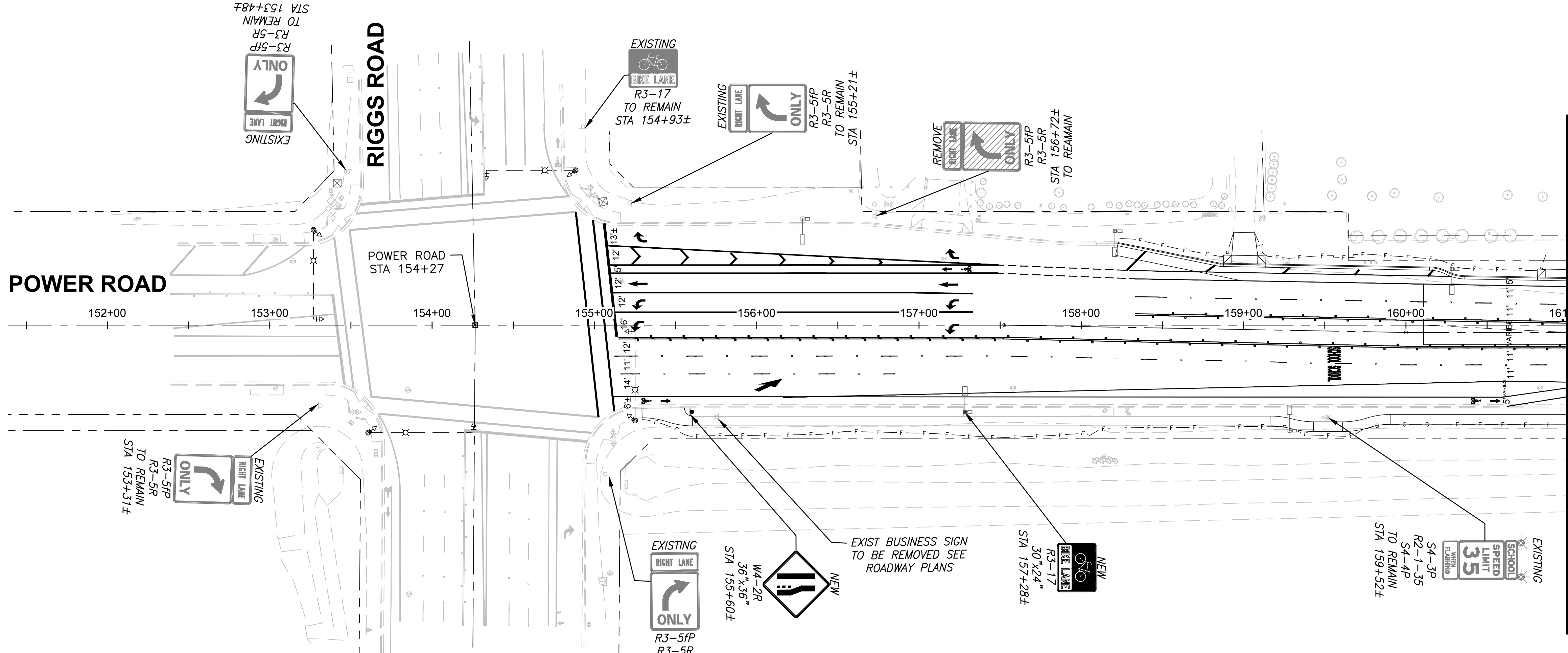
PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

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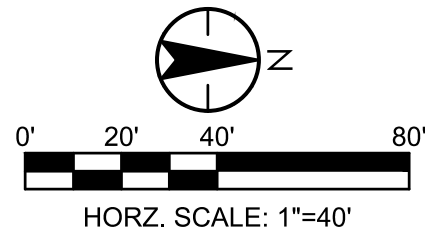
MATCH LINE - STA 161+00 SEE SHEET TOP RIGHT







MATCH LINE - STA 169+00 SEE DWG SN002



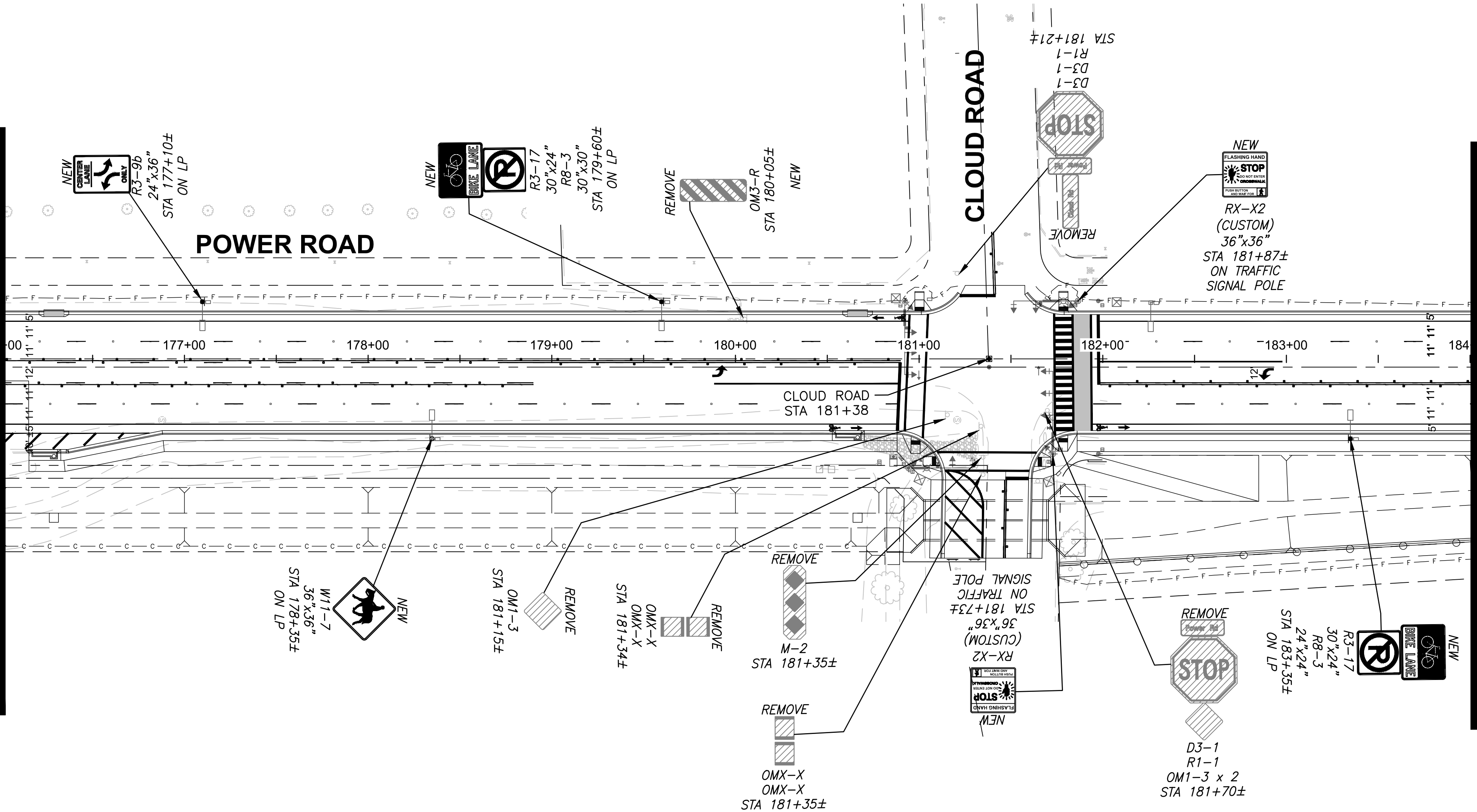
MATCH LINE - STA 161+00 SEE BOTTOM LEFT



 Contact Arizona 811 at least two full working days before you begin excavation Call 811 or click Arizona811.com		 TOWN OF QUEEN CREEK	
		POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY AND DRAINAGE IMPROVEMENTS	
		3133 West Frye Road Chandler, Arizona 85226 Tel. 480.687.6100 www.stantec.com	
SIGNING PLAN			
DESIGNED BY: MH		CIP PROJ NO. A1405	
DRAWN BY: BE			
DRAWING NO. SN001		SHEET 69 OF 133	

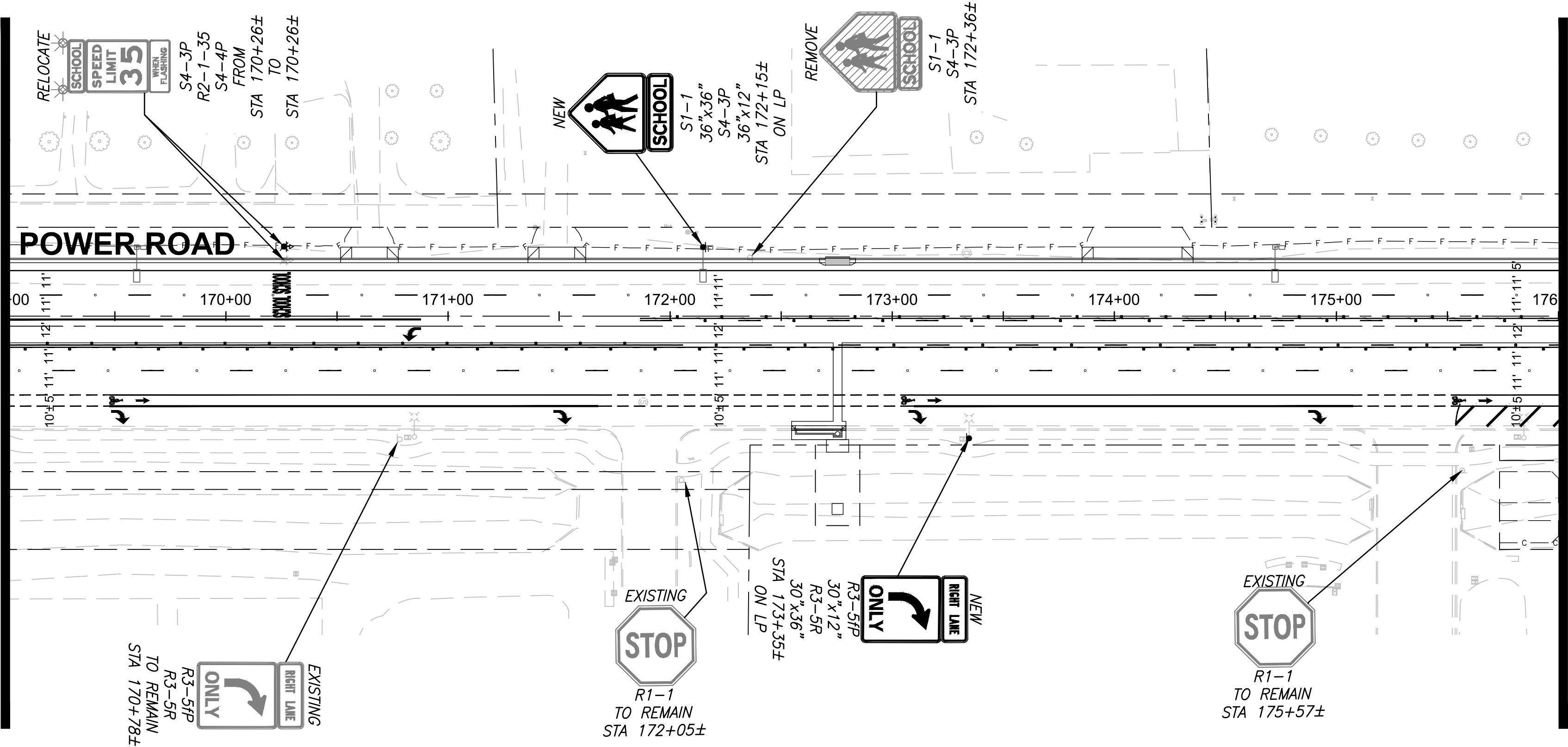
\\US0310-PPF501\WORKGROUP\1817\Active\181711207\700_CADD\Sheet_Files\11207-SN002_SIGNING_02.dwg, 10/3/2025 3:00:24 PM

MATCH LINE - STA 176+00 SEE SHEET TOP RIGHT

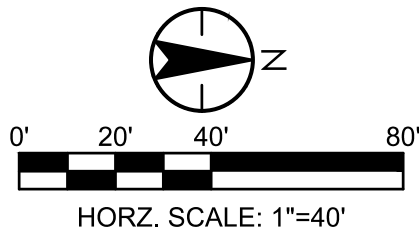






MATCH LINE - STA 184+00 SEE DWG SN003

MATCH LINE - STA 169+00 SEE DWG SN001

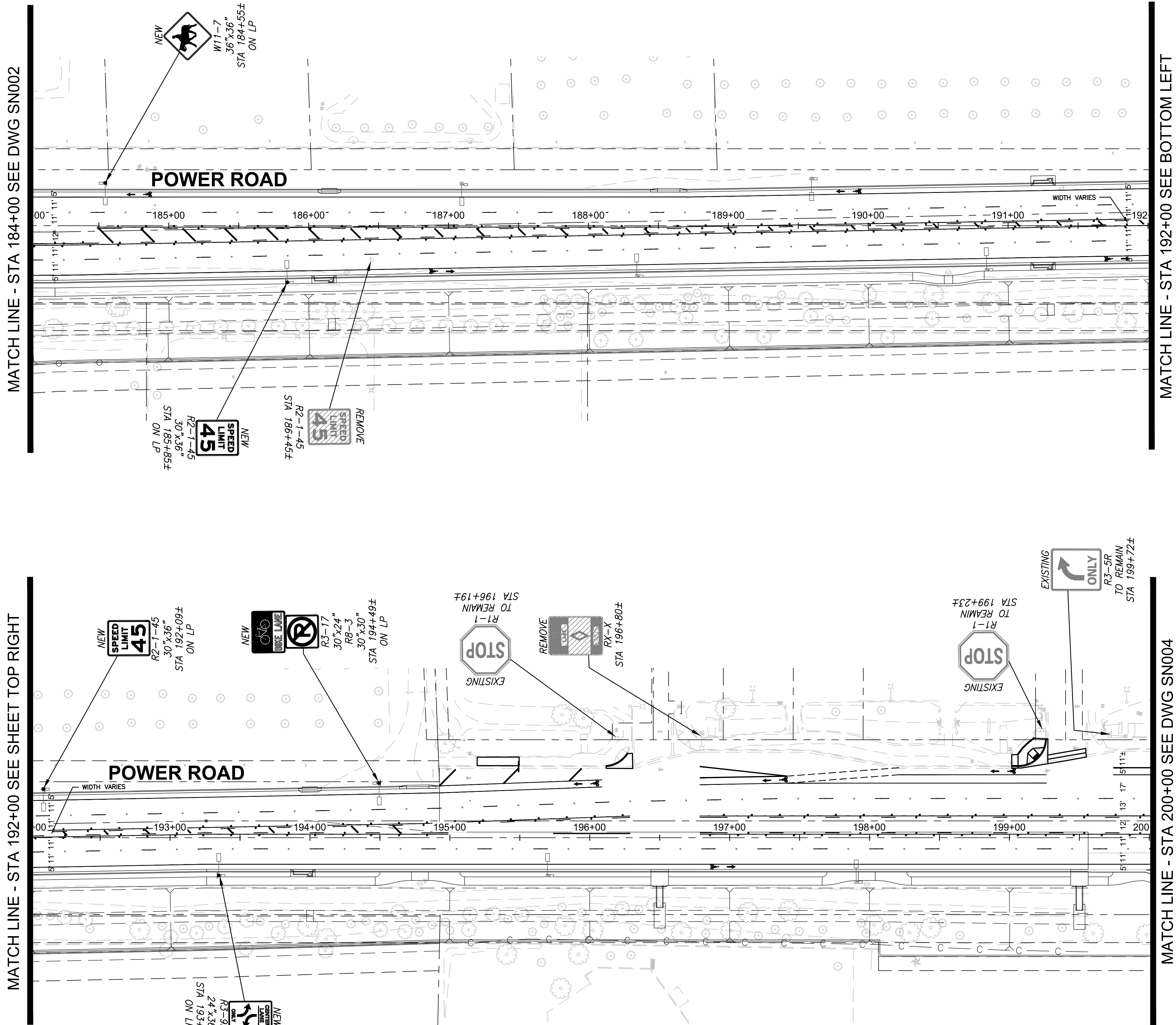





MATCH LINE - STA 176+00 SEE BOTTOM LEFT



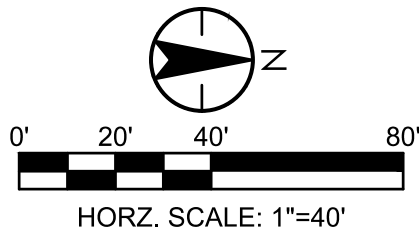
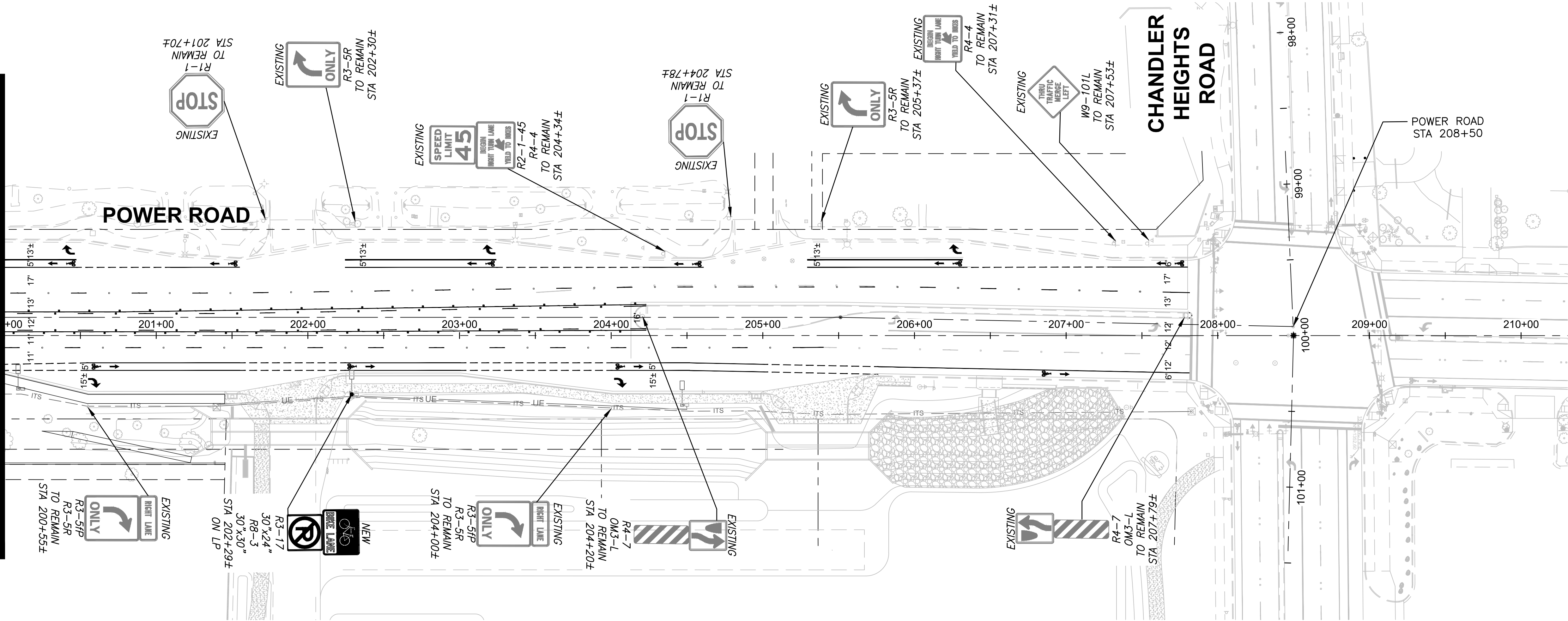
 Contact Arizona 811 at least two full working days before you begin excavation ARIZONA Call 811 or click Arizona811.com		 TOWN OF QUEEN CREEK	
 CHRISTOPHER E. EGGERS 17551 ARIZONA, U.S.A.		POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY AND DRAINAGE IMPROVEMENTS  3133 West Frye Road Chandler, Arizona 85226 Tel. 480.687.6100 www.stantec.com	
SIGNING PLAN			
DESIGNED BY: MH		CIP PROJ NO. A1405	
DRAWN BY: BE			
DRAWING NO. SN002		SHEET 70 OF 133	





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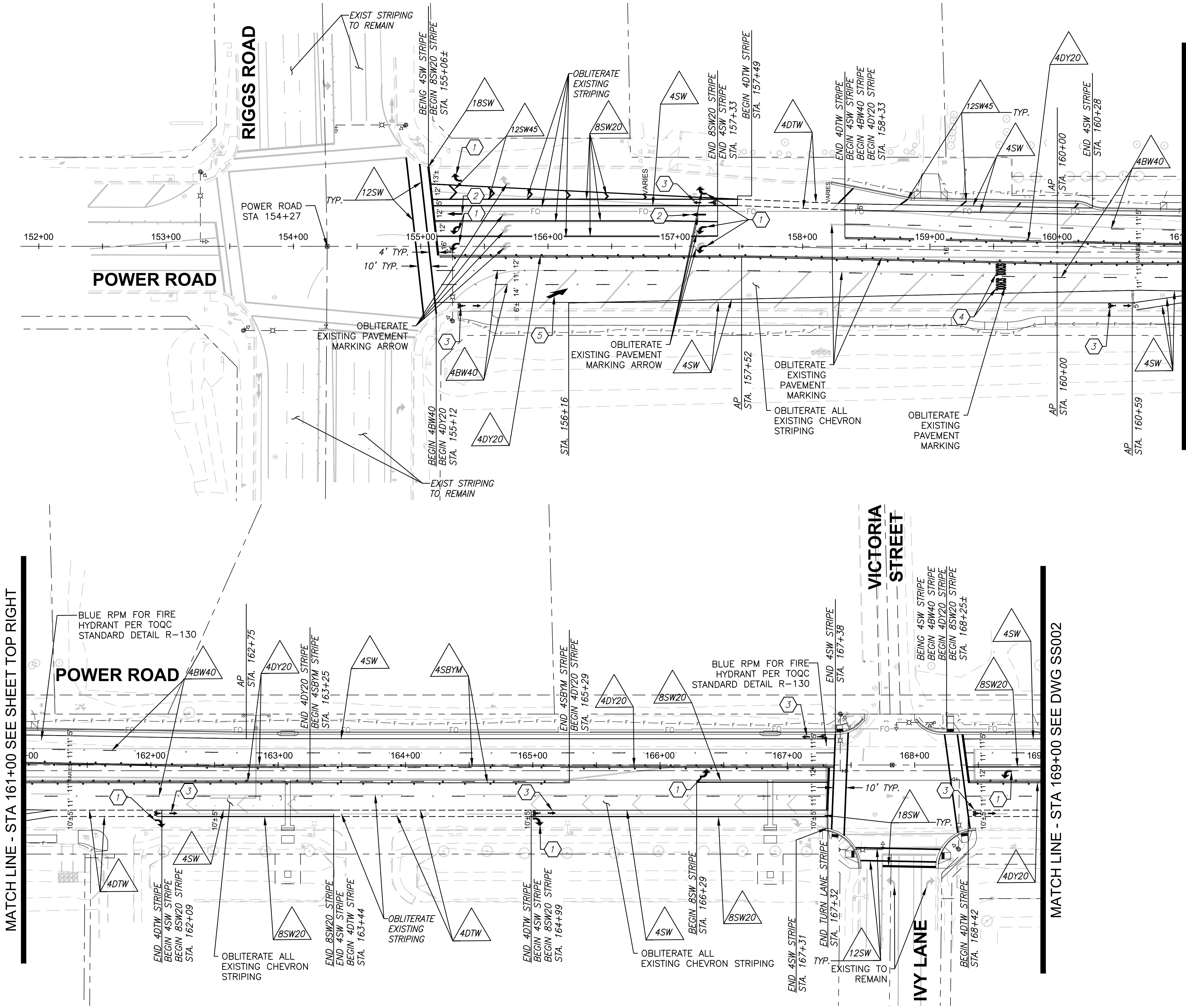
 Contact Arizona 811 at least two full working days before you begin excavation Call 811 or click Arizona811.com		 TOWN OF QUEEN CREEK	
		POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY AND DRAINAGE IMPROVEMENTS	
DESIGNED BY: MH		CIP PROJ NO. A1405	
DRAWN BY: BE		DRAWING NO. SN003	
SHEET 71 OF 133		Stantec 3133 West Frye Road Chandler, Arizona 85226 Tel. 480.687.6100 www.stantec.com	

MATCH LINE - STA 200+00 SEE DWG SN003



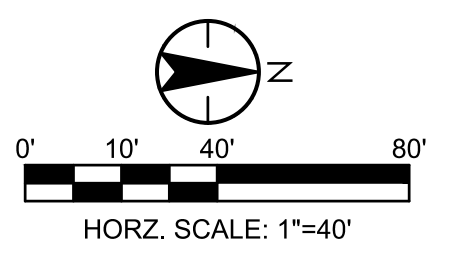
 Contact Arizona 811 at least two full working days before you begin excavation ARIZONA 811 Call 811 or click Arizona811.com		 TOWN OF QUEEN CREEK	
		POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY AND DRAINAGE IMPROVEMENTS	
		 3133 West Frye Road Chandler, Arizona 85226 Tel. 480.687.6100 www.stantec.com	
SIGNING PLAN			
DESIGNED BY MH		CIP PROJ NO. A1405	
DRAWN BY BE			
DRAWING NO. SN004		SHEET 72 OF 133	

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- 1 STANDARD SINGLE ARROW (RIGHT & LEFT) PER ADOT SIGNING AND MARKING DRAWING M-10.
- 2 STANDARD SINGLE ARROW (THRU) PER ADOT SIGNING AND MARKING DRAWING M-10.
- 3 STANDARD BIKE LANE SYMBOL & ARROW PER TOWN OF QUEEN CREEK DETAIL R-131. (MODIFIED AS SHOWN)
- 4 STANDARD PAVEMENT LEGEND (SCHOOL) PER ADOT SIGNING AND MARKING STANDARD DRAWING M-6
- 5 24" SOLID WHITE MERGING RIGHT TO LEFT ARROW PER ADOT STANDARD DETAIL M-10

NOTE:
ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE PROPOSED STRIPING NOT BEING REMOVED AS PART OF THE PAVEMENT REMOVAL, SHALL BE REMOVED BY APPROVED METHODS.



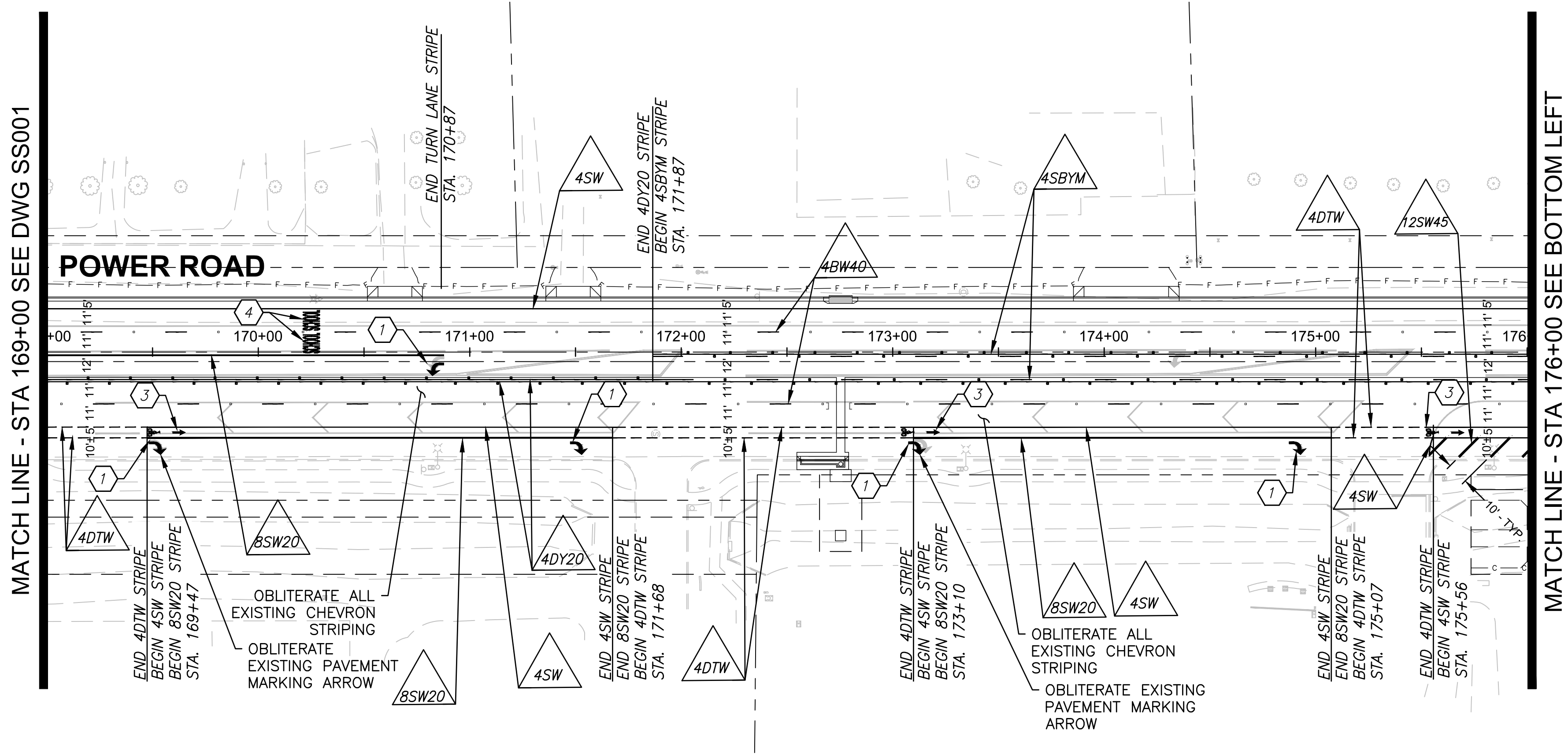
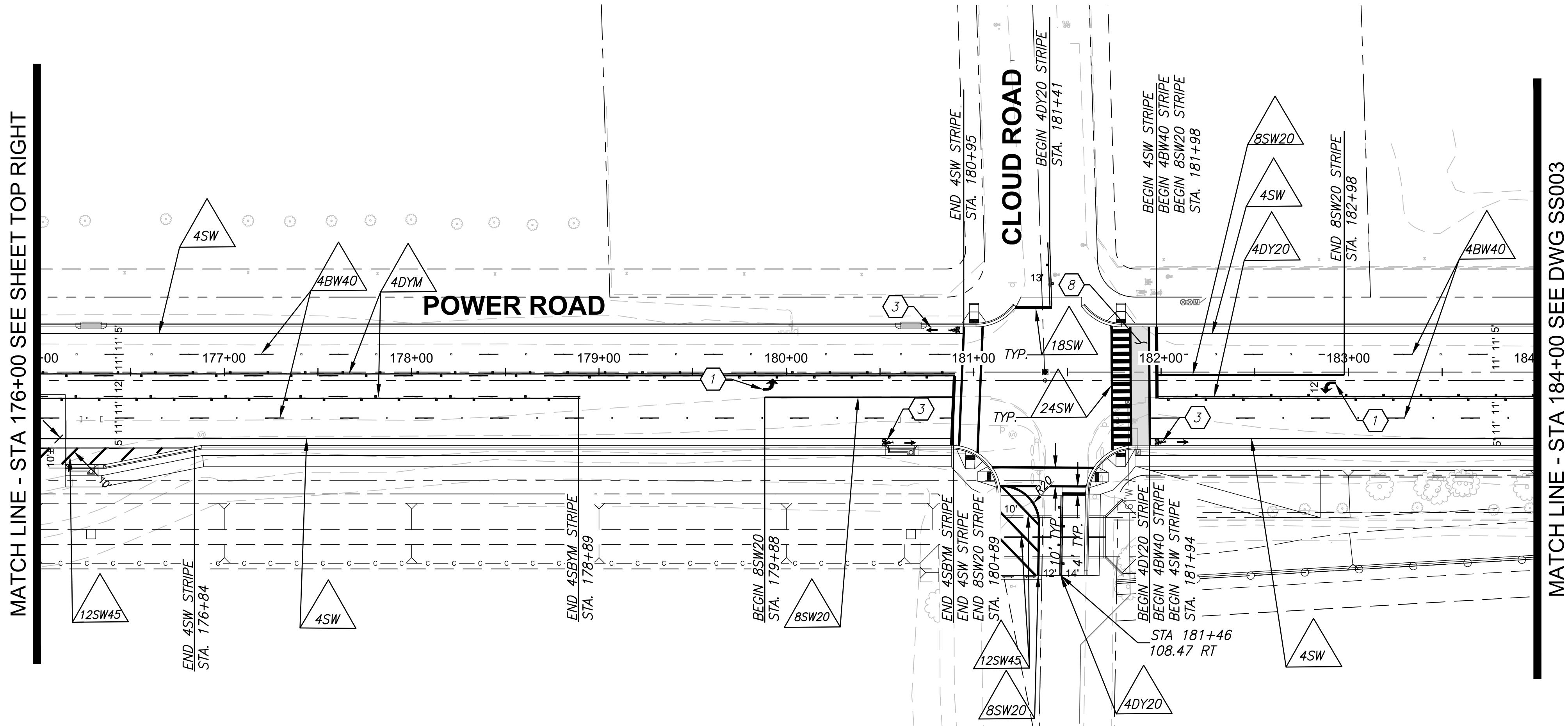
ARIZONA
17551
CHRISTOPHER E. EGERS
10/03/25





TOWN OF
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STRIPING PLANS		
DESIGNED BY	MH	CIP PROJ NO. A1405
DRAWN BY	BE	
DRAWING NO. SS001		SHEET 73 OF 133

\\US0310-PPFS01\WORKGROUP\1817\Active\181711207\700_CADD\Sheet_Files\11207-SS002_STRIPING_02.dwg, 10/3/2025 4:28:25 PM

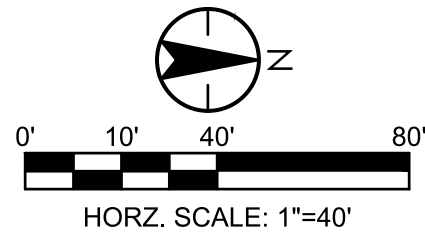


- 1  STANDARD SINGLE ARROW (RIGHT & LEFT)
PER ADOT SIGNING AND MARKING DRAWING
M-10.
- 3  STANDARD BIKE LANE SYMBOL & ARROW PER
TOWN OF QUEEN CREEK DETAIL R-131.
(MODIFIED AS SHOWN)
- 4  STANDARD PAVEMENT LEGEND (SCHOOL) PER
ADOT SIGNING AND MARKING STANDARD
DRAWING M-6
- 8  APPLY DECOCOAT POLYMER SYSTEM DP200 BETWEEN
CROSSWALK LINES.
COLOR: TERRA-COTTA
THICKNESS: 5 LAYER MINIMUM PER MANUFACTURER
APPLICATION REQUIREMENTS.
SUPPLIER: WWW.DECOCOATSYSTEMS.COM

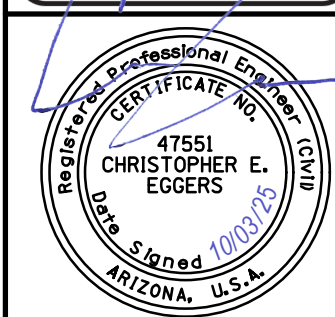
NOTE:

ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE
PROPOSED STRIPING NOT BEING REMOVED AS PART OF THE
PAVEMENT REMOVAL, SHALL BE REMOVED BY APPROVED
METHODS.

SEE TOWN OF QUEEN CREEK DETAIL PM-10 FOR HIGH
VISIBILITY CROSSWALK DIMENSIONS.



TOWN OF
QUEEN CREEK



POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
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STRIPING PLANS

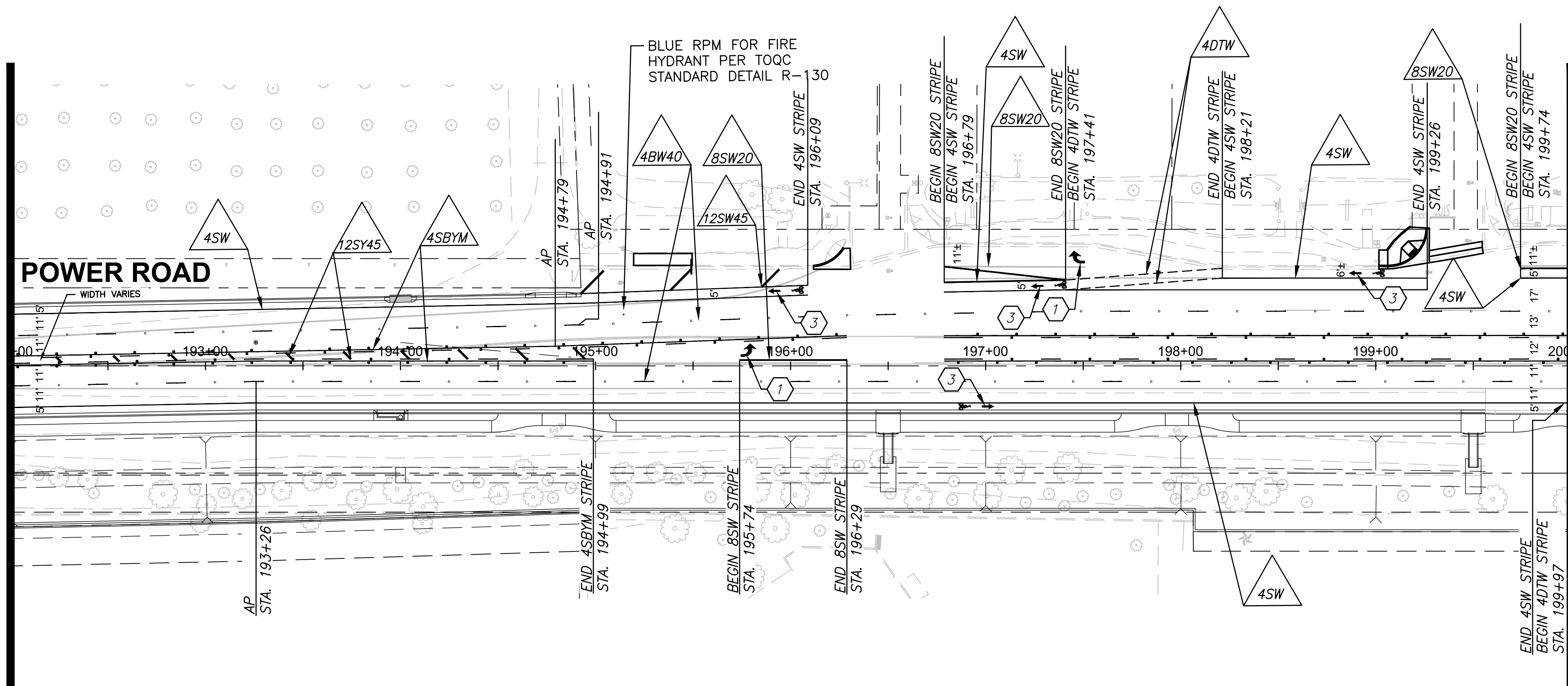
DESIGNED BY MH
DRAWN BY BE

CIP PROJ NO. A1405

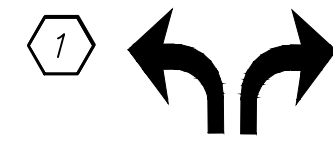
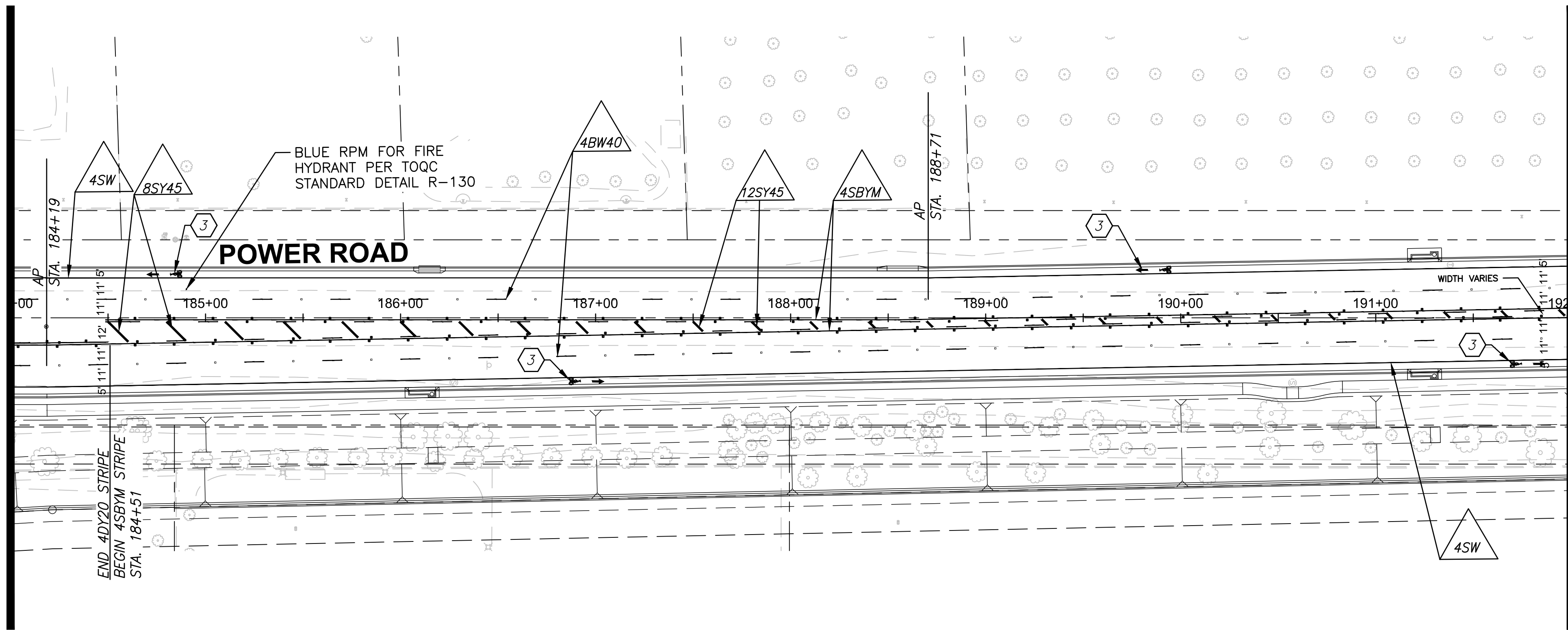
DRAWING NO. SS002

SHEET 74 OF 133

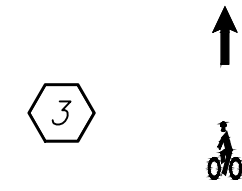
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MATCH LINE - STA 184+00 SEE DWG SS002



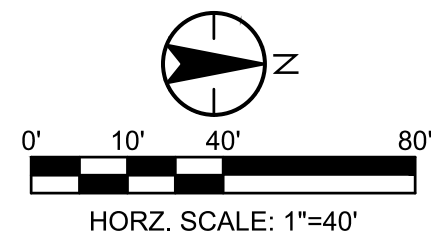
STANDARD SINGLE ARROW (RIGHT & LEFT)
PER ADOT SIGNING AND MARKING DRAWING
M-10.



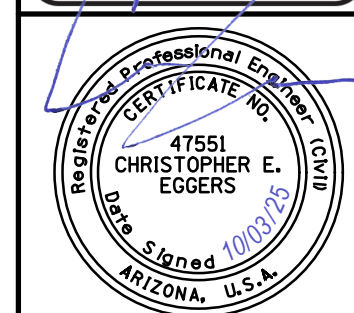
STANDARD BIKE LANE SYMBOL & ARROW PER
TOWN OF QUEEN CREEK DETAIL R-131.
(MODIFIED AS SHOWN)

NOTE:

ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE PROPOSED STRIPING NOT BEING REMOVED AS PART OF THE PAVEMENT REMOVAL, SHALL BE REMOVED BY APPROVED METHODS.



TOWN OF
QUEEN CREEK



POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS



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Tel. 480.687.6100
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STRIPING PLANS

DESIGNED BY	MH
DRAWN BY	BE

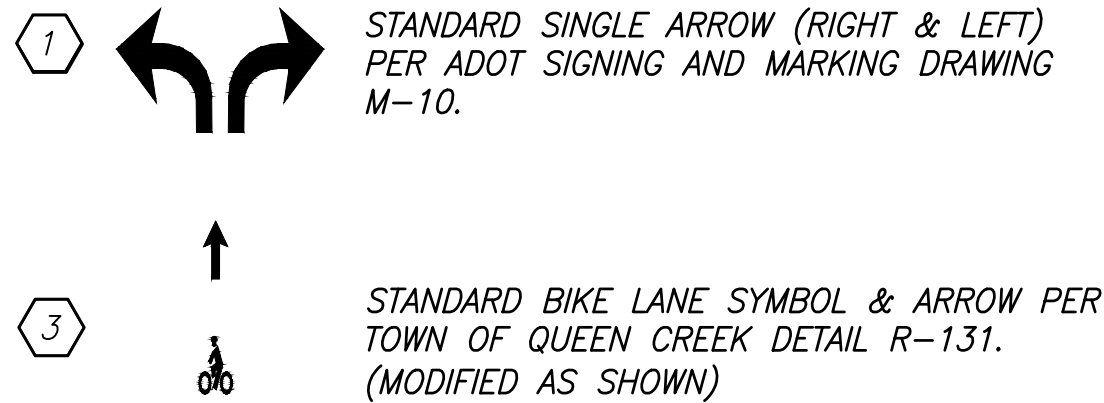
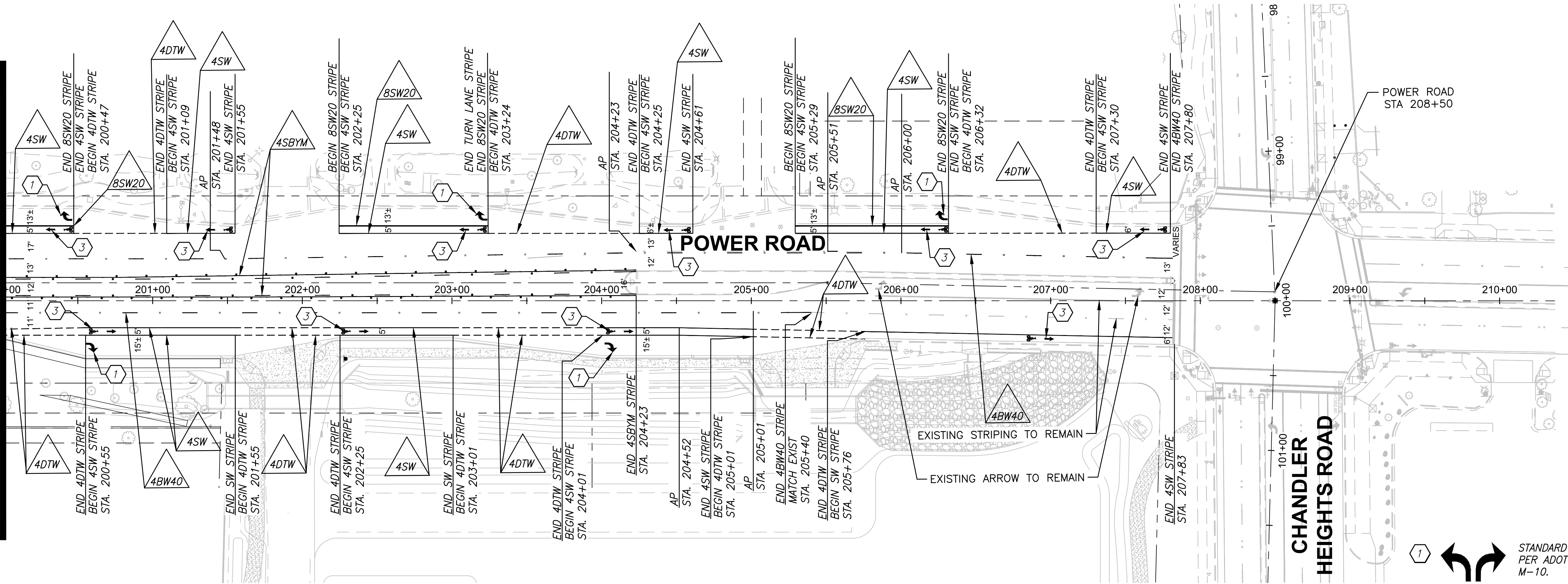
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DRAWING NO. SS003

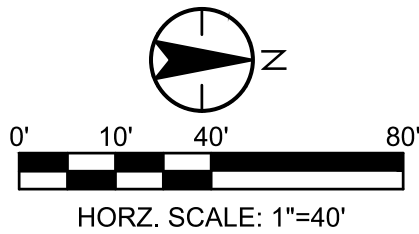
SHEET 75 OF 133





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MATCH LINE - STA 200+00 SEE DWG SS003



NOTE:
ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE PROPOSED STRIPING NOT BEING REMOVED AS PART OF THE PAVEMENT REMOVAL, SHALL BE REMOVED BY APPROVED METHODS.



 Contact Arizona 811 at least two full working days before you begin excavation Call 811 or click Arizona811.com	 TOWN OF QUEEN CREEK
	POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY AND DRAINAGE IMPROVEMENTS
 3133 West Frye Road Chandler, Arizona 85226 Tel. 480.687.6100 www.stantec.com	
STRIPING PLANS	
DESIGNED BY: MH	CIP PROJ NO. A1405
DRAWN BY: BE	
DRAWING NO. SS004	SHEET 76 OF 133

\\US0310-PPFSS01\WORKGROUP\1817\Active\181711207\700_CADD\Sheet_Files\11207-TS001_TRAFFIC_SIGNAL_001.dwg, 10/3/2025 3:03:27 PM

GENERAL NOTES:





- ALL MATERIALS AND INSTALLATION SHALL CONFORM TO THE TOWN OF QUEEN CREEK (TOQC) STANDARDS AND DETAILS, THE 2008 ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST APPROVED EDITION, THE CURRENT MAG SPECIFICATIONS AND DETAILS, THE SPECIAL PROVISIONS, AND THESE PLANS.
- THE UTILITIES DEPICTED HEREON ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF THE FIELD SURVEY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT BLUE STAKE AT 602-263-1100 48-HOURS PRIOR TO ANY CONSTRUCTION TO FIELD VERIFY THE EXACT LOCATIONS OF ALL UTILITIES. IF DISCREPANCIES EXIST, CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL POT HOLE EXISTING FACILITIES AT ALL CONDUIT CROSSINGS.
- WHEN INSTALLED ADJACENT TO A SIDEWALK RAMP, TOPS OF POLE FOUNDATIONS SHALL BE PER TOQC STANDARD DETAIL TS-08. OTHERWISE, THEY SHALL BE THE SAME ELEVATION AS EXISTING ADJACENT SIDEWALK OR TOP OF CURB. IF CURB/GUTTER DOES NOT EXIST, NOR IS IT PLANNED FOR CONSTRUCTION ADJACENT TO THE NEW POLE FOUNDATION, THE TOP OF FOUNDATION SHALL BE SET A MINIMUM OF 4 INCHES ABOVE THE ADJACENT ROADWAY CROWN.
- CONTRACTOR SHALL REPLACE ALL LANDSCAPING AND/OR IRRIGATION FACILITIES THAT MAY BE DISTURBED OR DAMAGED DURING TRAFFIC SIGNAL CONSTRUCTION AT HIS OWN EXPENSE. CONTACT THE PROPERTY OWNER FOR INFORMATION ON THE LOCATION OF IRRIGATION EQUIPMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR TRIMMING EXISTING LANDSCAPING AND VEGETATION ADJACENT TO PROPOSED SIGNAL EQUIPMENT TO ENSURE CLEAR VISIBILITY OF ALL PEDESTRIAN AND SIGNAL HEADS. ALL WORK ASSOCIATED WITH THIS ITEM SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF SIGNAL AND PEDESTRIAN HEADS.
- ALL NEW FIELD EQUIPMENT SHALL BE LOCATED BY A REGISTERED LAND SURVEYOR CURRENTLY LICENSED IN THE STATE OF ARIZONA.
- PRIOR TO INSTALLATION, THE CONTRACTOR SHALL CONTACT THE TOQC TRAFFIC DEPARTMENT AT 480-358-3132 FOR INSPECTION AND APPROVAL OF EQUIPMENT LOCATIONS.
- TRAFFIC SIGNAL PULL BOXES SHALL BE LEFT IN CLEAN CONDITION.
- WHERE THE EXISTING PULL BOX IS TO BE REMOVED AND REPLACED WITH A NEW PULL BOX OR SPLICE VAULT, THE CONTRACTOR SHALL ADJUST THE EXISTING CONDUIT SWEEPS TO ENTER THE NEW PULL BOX OR SPLICE VAULT INSTALLATION PER TOQC STANDARD DETAIL TS-02, TS-03 AND ITS-06.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING STEPHEN DURAN AT SALT RIVER PROJECT (SRP) AT 602-236-4199, A MINIMUM OF 4 WEEKS PRIOR TO START OF CONSTRUCTION, FOR POWER SOURCE POINT OF DELIVERY (POD) LOCATION AND INSTALLATION REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH THE TOQC TRAFFIC DEPARTMENT AT 480-358-3132 PRIOR TO MAKING CONTACT WITH SRP.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING THE SERVICE CONDUIT RUN FROM THE SRP POWER SOURCE POD TO THE SIGNAL METER PEDESTAL. SRP IS RESPONSIBLE FOR INSTALLING SERVICE WIRE FROM THE SRP POWER SOURCE POD TO THE METER PEDESTAL.
- ALL CONDUITS SHALL BE SCHEDULE 40 PVC.
- THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL SALVAGED MATERIAL TO THE TOQC.
- ALL CONDUIT RUNS UNDER EXISTING PAVEMENT OR DRIVEWAYS SHALL BE INSTALLED BY DIRECTIONAL BORING UNLESS PRIOR APPROVAL IS OBTAINED FROM THE TOQC TRAFFIC DEPARTMENT.
- THE CONTRACTOR SHALL CONTACT THE TOQC TRAFFIC DEPARTMENT AT 480-358-3132 TO COORDINATE THE EMERGENCY VEHICLE PREEMPTION DETECTOR LINE OF SIGHT.
- THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS FOR TEMPORARY TRAFFIC CONTROL AND SIGNING AND PAVEMENT MARKING AS PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST APPROVED EDITION, THE ARIZONA SUPPLEMENT TO THE MUTCD, AND TOWN OF QUEEN CREEK REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE MATERIAL SUBMITTALS TO THE TOWN OF QUEEN CREEK TRAFFIC ENGINEERING DEPARTMENT PRIOR TO ORDERING ANY MATERIALS. UPON WRITTEN APPROVAL BY THE TOWN, SUBMITTED MATERIALS MAY BE ORDERED.
- THE CONTRACTOR SHALL CONTACT THE TOWN OF QUEEN CREEK TRAFFIC DEPARTMENT AT 480-358-3132 TO SCHEDULE THE TURN-ON A MINIMUM OF 10 WORKING DAYS IN ADVANCE. THE CONTRACTOR SHALL PROVIDE AN OFF-DUTY DEPUTY FROM THE QUEEN CREEK DISTRICT OF THE MARICOPA COUNTY SHERIFF'S OFFICE TO CONTROL TRAFFIC DURING THE SIGNAL TURN-ON.
- SEE SIGNING AND PAVEMENT MARKING PLANS FOR ACTUAL LANE DIMENSIONS, STOP BAR LOCATIONS AND REQUIREMENTS.
- MOUNTING HEIGHT FOR TRAFFIC SIGNAL FACES SHALL COMPLY WITH THE CURRENTLY APPROVED EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES HANDBOOK.
- THE CONTRACTOR SHALL INSTALL A 2" FLUORESCENT YELLOW PRISMATIC ASTM D4956 TYPE XII, IX, OR XI RETRO REFLECTIVE BORDER AROUND THE ENTIRE PERIMETER OF EACH BACK PLATE FOR ALL HEADS. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUPPLYING AND INSTALLING THE RETRO REFLECTIVE TAPE.

CONSTRUCTION NOTES:

- TOP OF FOUNDATION ELEVATIONS SHALL BE THE SAME ELEVATION AS EXISTING ADJACENT SIDEWALK OR TOP OF CURB. IF CURB/GUTTER DOES NOT EXIST NOR IS IT PLANNED FOR CONSTRUCTION ADJACENT TO THE NEW POLE FOUNDATION, THE CONTRACTOR SHALL INSTALL THE POLE FOUNDATIONS A MINIMUM OF 4 INCHES ABOVE THE ADJACENT ROADWAY CROWN.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL MATERIALS.
- PULL BOXES FALLING IN SIDEWALK/RAMP AREA SHALL BE FLUSH-FINISHED WITH SIDEWALK/RAMP FINISHED SURFACE.

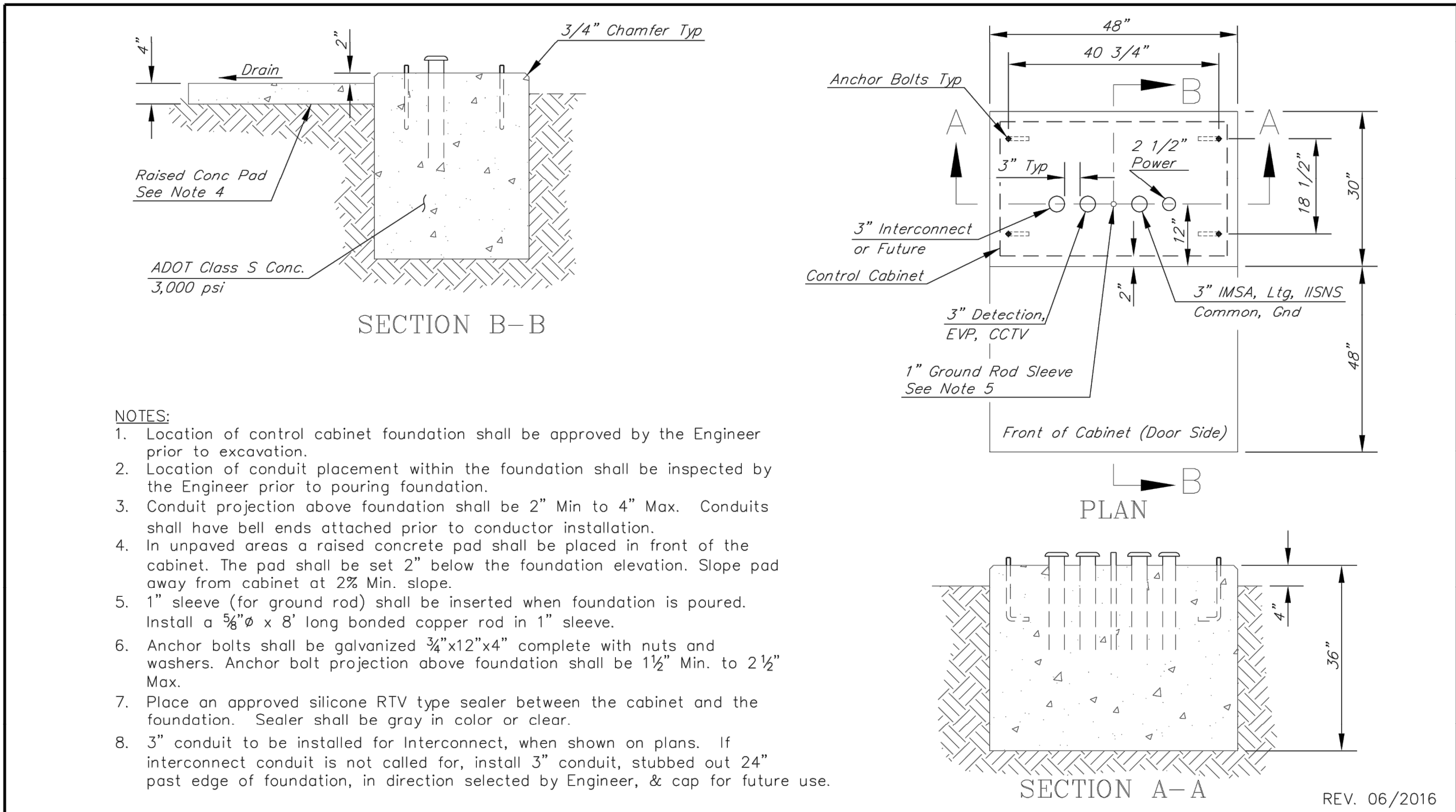
TRAFFIC SIGNAL POLE SCHEDULE NOTES:

- THE CONTRACTOR SHALL PROVIDE AND INSTALL LUMINAIRES. ALL LUMINAIRES SHALL HAVE SHORTING CAPS INSTALLED.
- INTERNALLY ILLUMINATED STREET NAME SIGNS (IISNS) SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. PRIOR TO ORDERING OR MANUFACTURING IISNS, THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL TO TOQC TRAFFIC DEPARTMENT. SHOP DRAWINGS SHALL INCLUDE FRONT AND BACK FACE LAYOUT, CABINET DETAILS, LIGHTING SPECIFICATIONS, MOUNTING SPECIFICATIONS, COLOR AND FONT SPECIFICATIONS. ADDRESSES FOR THE SIGNS WILL BE PROVIDED BY THE TOQC TRAFFIC DEPARTMENT.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL EMERGENCY VEHICLE PRE-EMPTION. TERMINATIONS SHALL BE PER TOQC STANDARD DETAIL TS-02 AND TS-04. THE CONDUCTOR CABLE FOR THE EMERGENCY VEHICLE PRE-EMPTION CABLE SHALL RUN UNSPLICED FROM THE DETECTOR TO THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL SUPPLY A COMPLETE CABINET ASSEMBLY, SIGNAL POLES (INCLUDING ANCHOR BOLTS), MAST ARMS, SIGNAL AND PEDESTRIAN HEADS (INCLUDING MOUNTING BRACKETS) AND PEDESTRIAN PUSH BUTTONS.
- THE CONTRACTOR SHALL INSTALL PEDESTRIAN PUSH BUTTONS PER ADOT STANDARD DETAIL TS 11-1. PEDESTRIAN PUSH BUTTONS SHALL BE MOUNTED WITH THE CENTERS OF THE PUSH BUTTON NOT EXCEEDING A MAXIMUM OF 42" ABOVE THE ADJACENT FINISHED SIDEWALK. ALL PUSH BUTTONS SHALL BE ETCHED WITH TOWN LOGO. CONTRACTOR SHALL PROVIDE (2) SPARE PUSH BUTTONS PER INTERSECTION.
- THE TOWN WILL PROVIDE AND THE CONTRACTOR SHALL INSTALL A VIDEO DETECTION (4) CAMERA SYSTEM, PER TOWN OF QUEEN CREEK SPECIFICATIONS. INSTALLATION OF THE VIDEO DETECTION POWER/DATA CONDUCTORS SHALL RUN UNSPLICED FROM EACH CAMERA TO THE CONTROLLER CABINET. CONTRACTOR SHALL PROVIDE (1) SPARE CAMERA AND MOUNTING ASSEMBLY PER INTERSECTION.
- ALL SIGNAL HEADS WITH TYPE XI SIDE MOUNTS SHALL HAVE A 12" ARM. PEDESTRIAN HEADS SHALL BE ADOT STANDARD.
- REFER TO TOWN OF QUEEN CREEK APPROVED MATERIAL LIST FOR MORE DETAILS.
- ALL TRAFFIC SIGNAL, ITS, AND LIGHTING EQUIPMENT SHALL CONFORM TO THE TOQC AML. SHOP DRAWINGS SHALL BE SUBMITTED AND APPROVED BY THE TOQC BEFORE ORDERING.
- THE CONTRACTOR SHALL INSTALL EQUESTRIAN PEDESTRIAN PUSH BUTTONS PER THE EQUESTRIAN DESIGN GUIDELINES FOR TRAILS, TRAILHEADS, AND STRUCTURES WITH THE CENTER OF THE PUSH BUTTON A MAXIMUM OF 70" ABOVE THE ADJACENT FINISHED SIDEWALK. ALL PUSH BUTTONS SHALL BE ETCHED WITH TOWN LOGO.

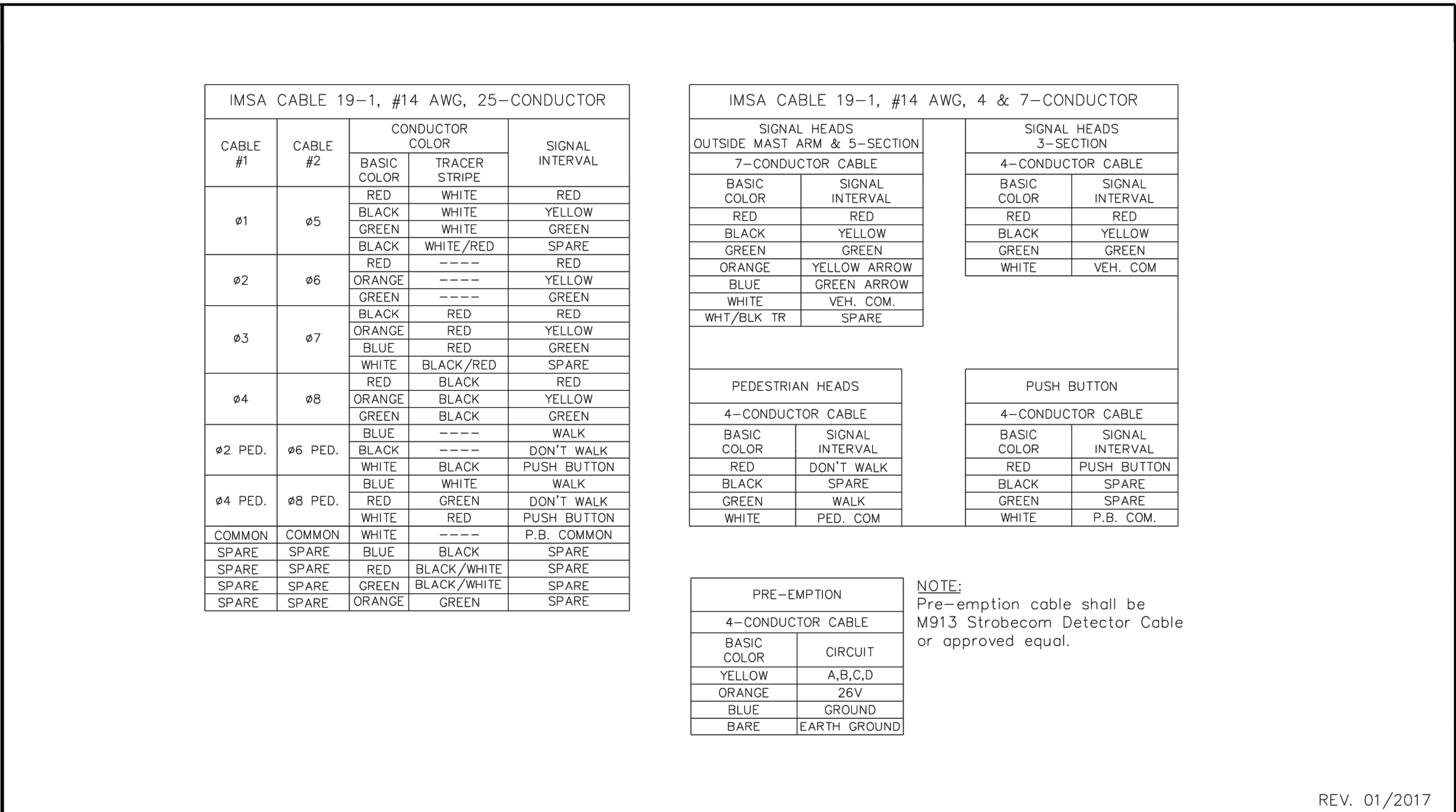
<div>Contact Arizona 911 at least two full working days before you begin excavation</div> <div> Call 911 or click Arizona911.com</div>		<div></div> <div>TOWN OF QUEEN CREEK</div>	
<div></div>		<div>POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY AND DRAINAGE IMPROVEMENTS</div>	
		<div><div>3133 West Frye Road Chandler, Arizona 85226 Tel. 480.687.6100 www.stantec.com</div></div>	
TRAFFIC SIGNAL NOTES			
DESIGNED BY MH		CIP PROJ NO. A1405	
DRAWN BY BE			
DRAWING NO. TS001		SHEET 77 OF 133	

PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

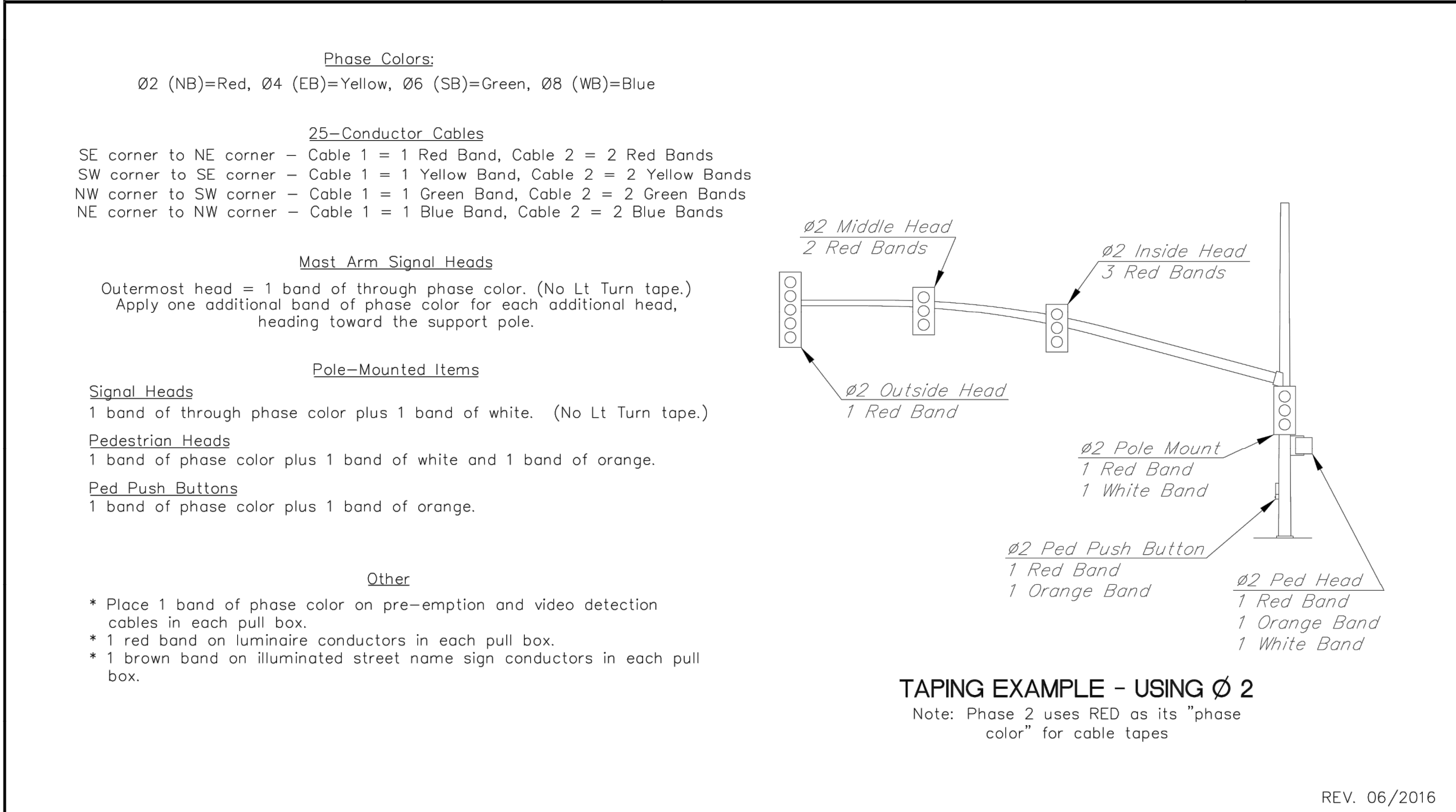
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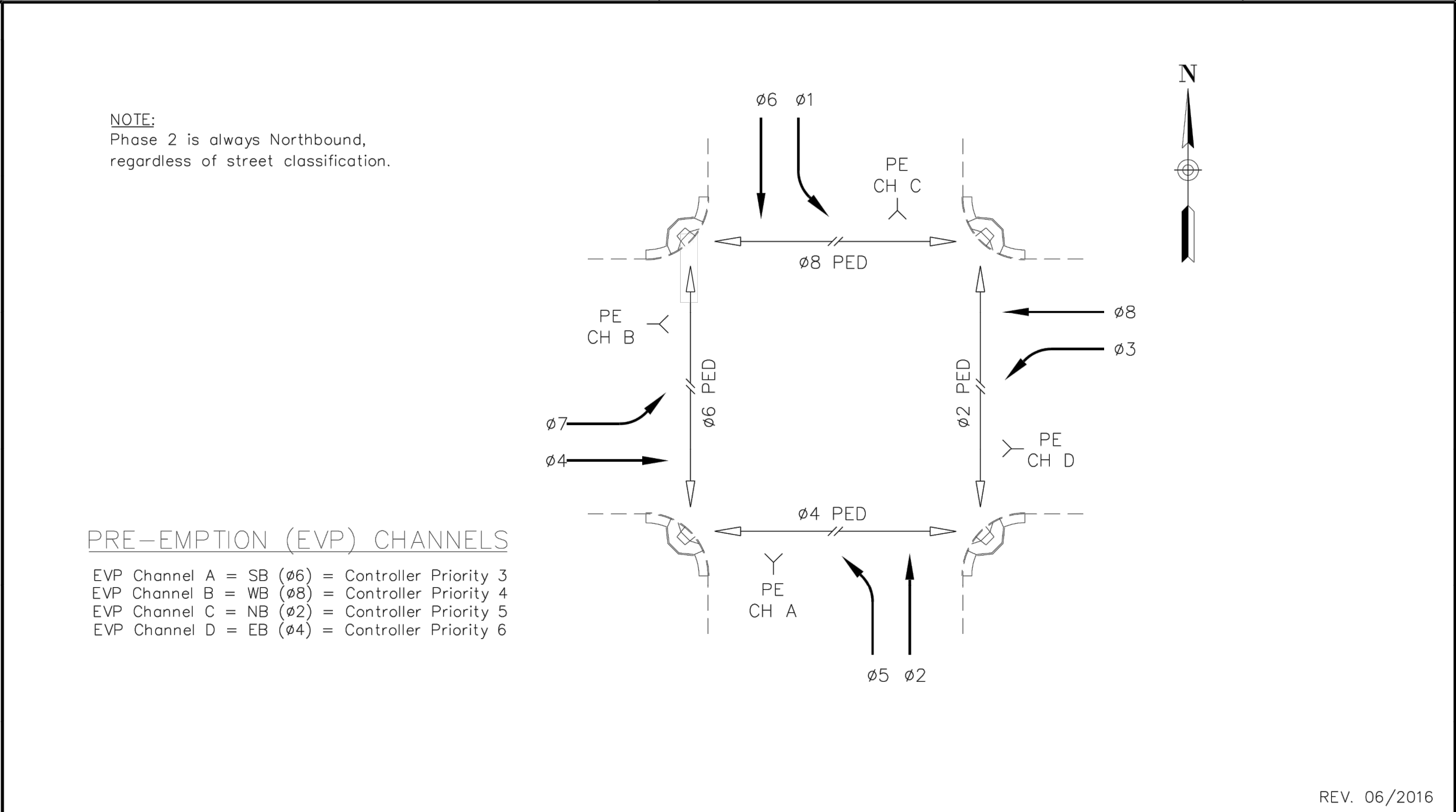
 TOWN OF QUEEN CREEK STANDARD DETAIL	CONTROL CABINET FOUNDATION DETAIL	TS-01
--	--	--------------




 TOWN OF QUEEN CREEK STANDARD DETAIL	TRAFFIC SIGNAL CONDUCTOR COLOR CODING	TS-02
--	--	--------------




 TOWN OF QUEEN CREEK STANDARD DETAIL	TRAFFIC SIGNAL CONDUCTOR CABLE TAPE COLOR CODING	TS-03
--	---	--------------




 TOWN OF QUEEN CREEK STANDARD DETAIL	STANDARD TRAFFIC SIGNAL AND PRE-EMPTION PHASING	TS-04
--	--	--------------



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Call 611 or click Arizona911.com




**TOWN OF
QUEEN CREEK**



Professional Engineer
No. 17551
CHRISTOPHER E. EGERS
Signed 10/03/25
ARIZONA, U.S.A.

POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS

**Stantec**

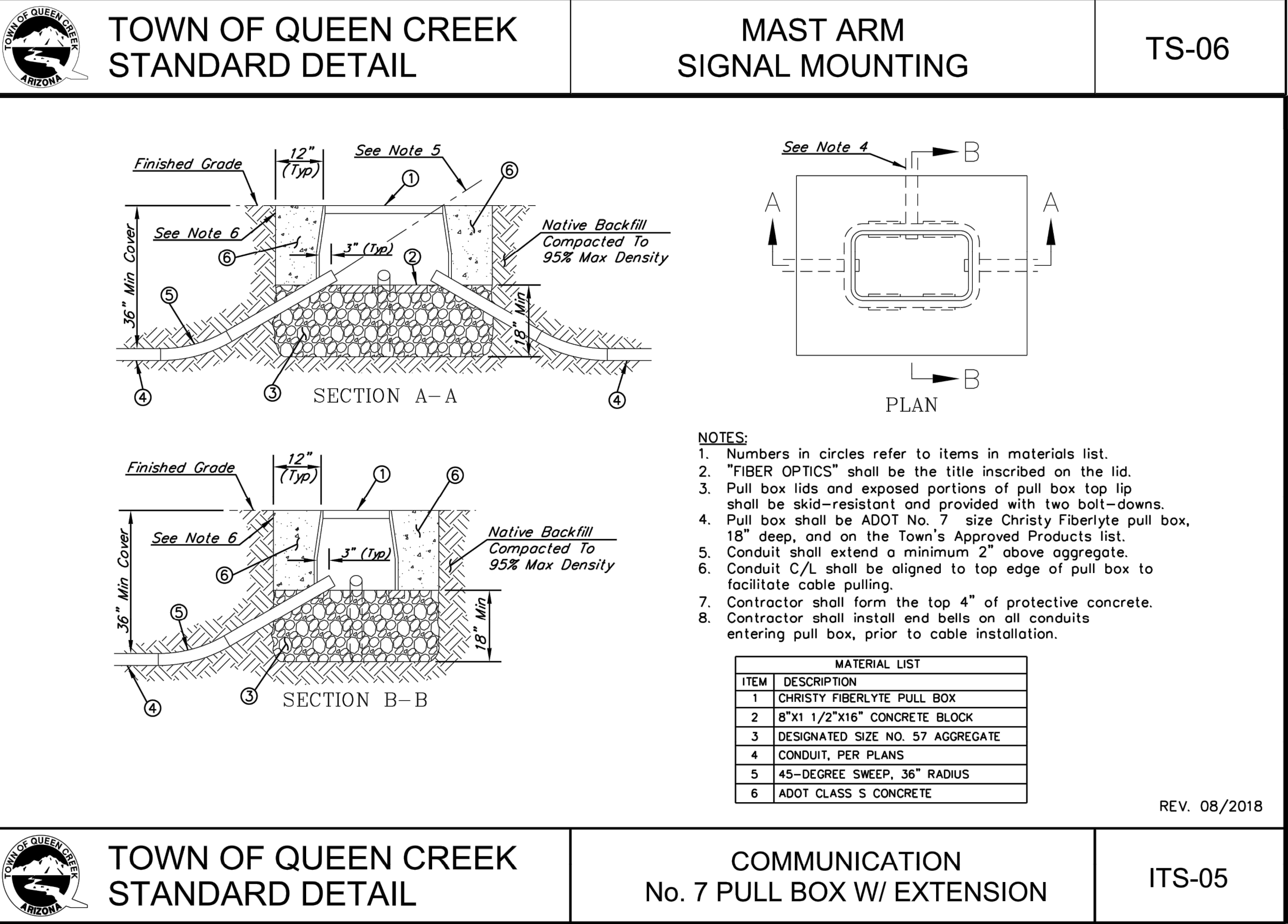
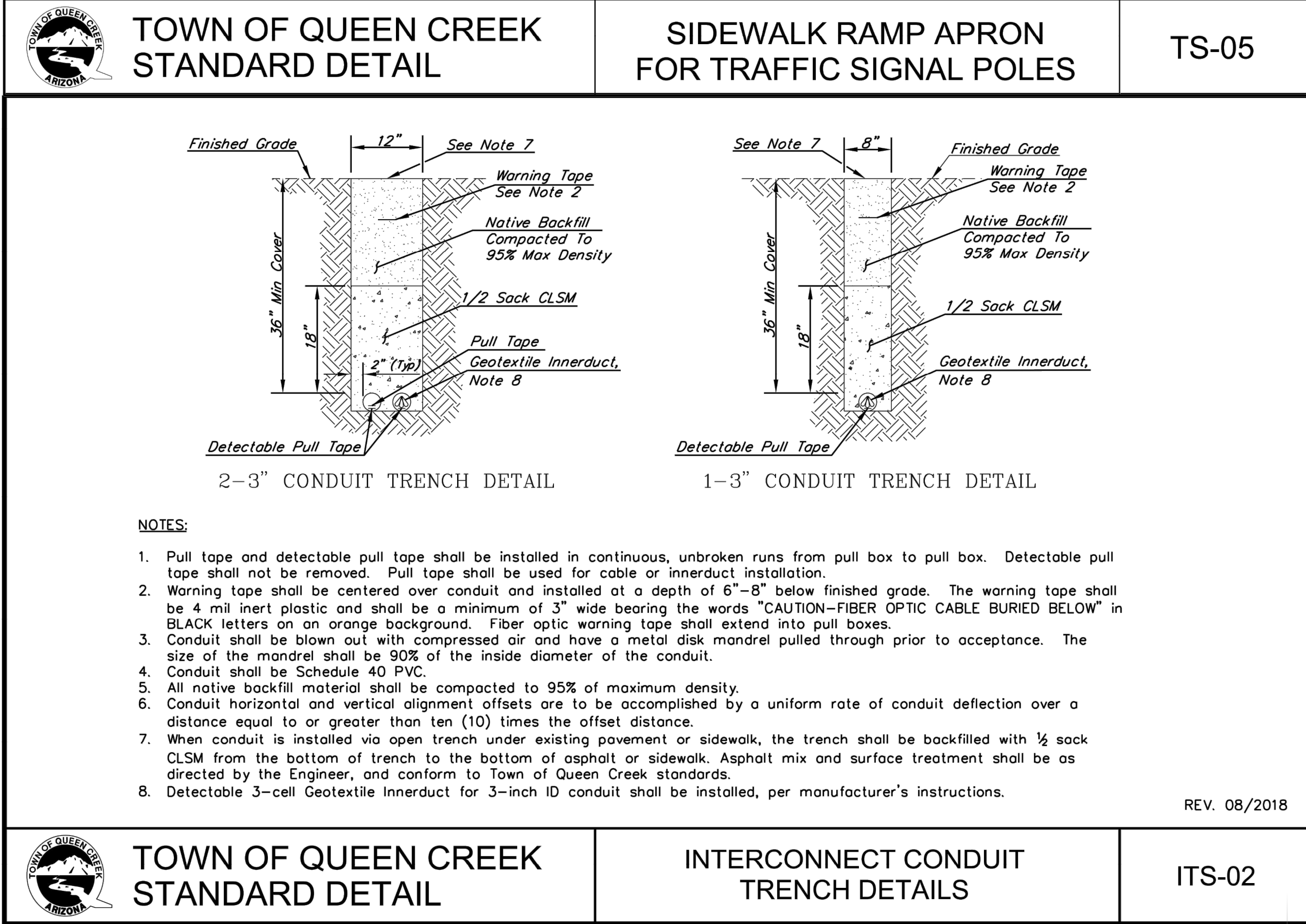
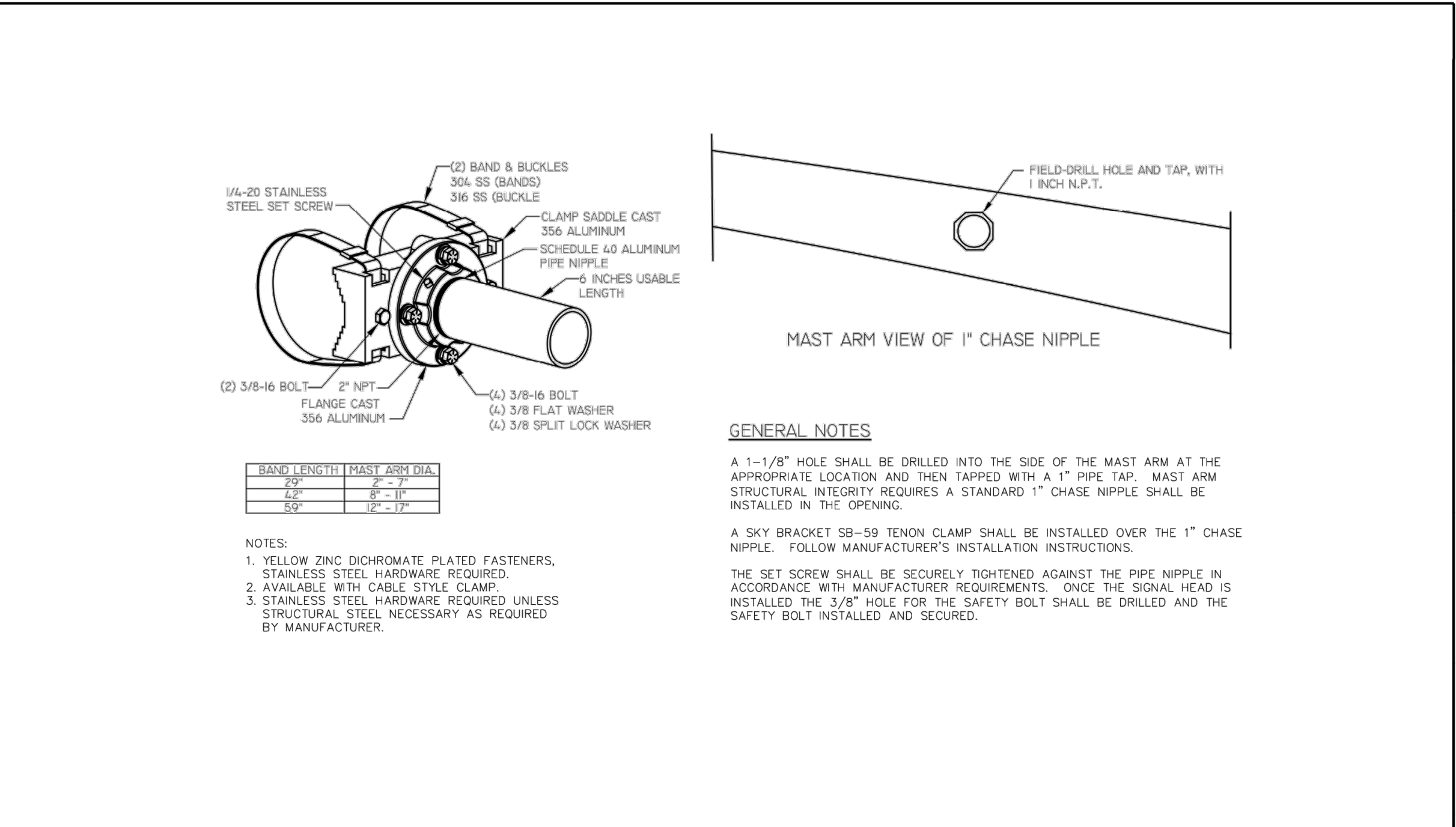
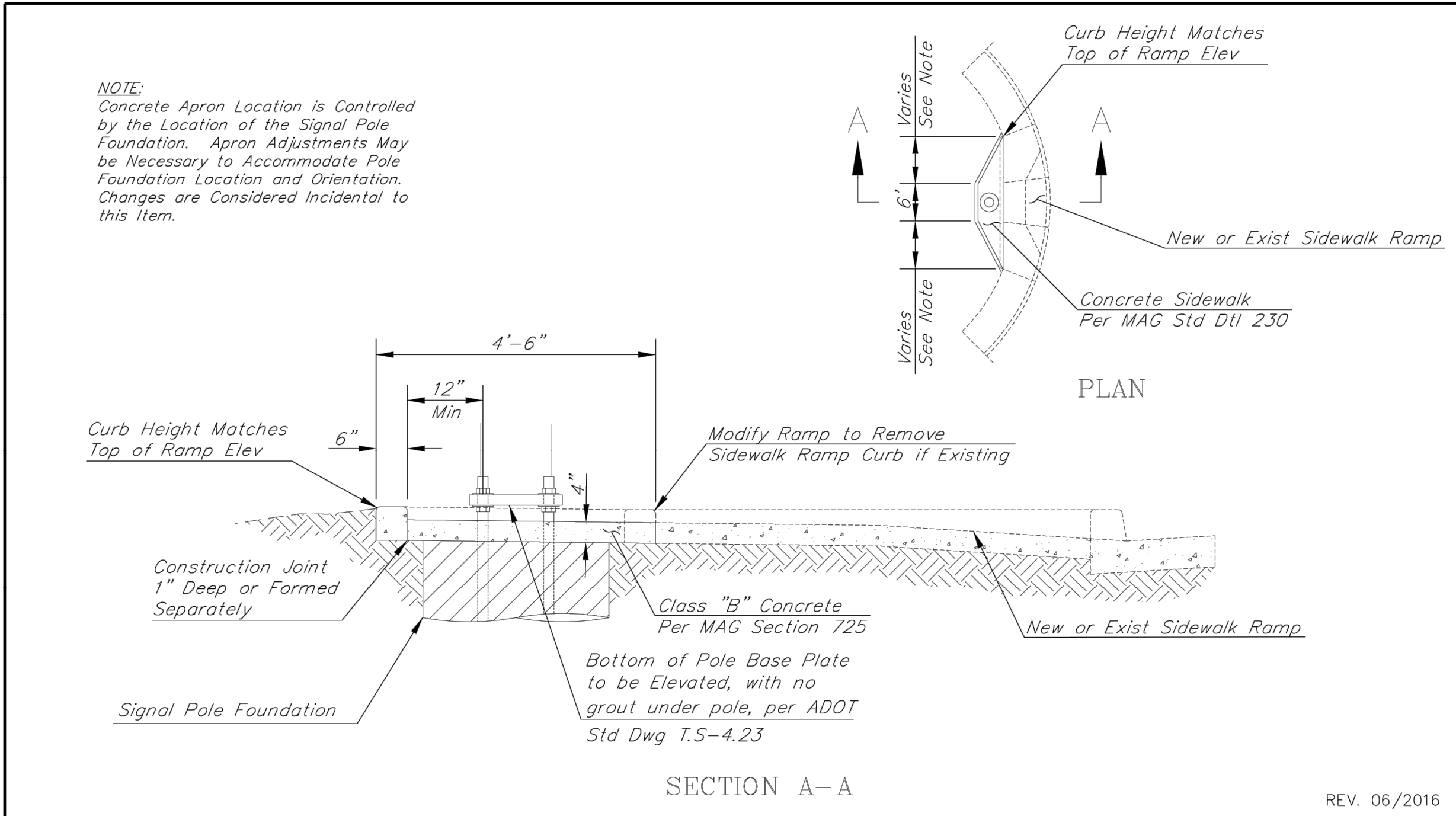
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TRAFFIC SIGNAL DETAILS

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DRAWN BY	BE	

DRAWING NO.	TS002	SHEET 78 OF 133
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ARIZONA811

Call 611 or click Arizona811.com

Professional Engineer

17551

CHRISTOPHER E. EGGERS

2024/05

Arizona, U.S.A.

TOWN OF
QUEEN CREEK

POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS

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TRAFFIC SIGNAL DETAILS

DESIGNED BY: MH

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CIP PROJ NO. A1405

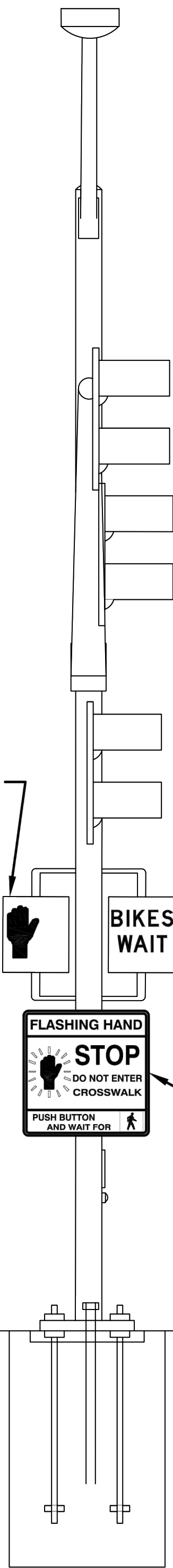
DRAWING NO. TS003

SHEET 79 OF 133

PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

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PEDESTRIAN
SIGNAL
INDICATION
(NON
COUNTDOWN)



BIKE SIGNAL
INDICATION

BIKES
WAIT

RX-X2
CUSTOM
"FLASHING HAND
STOP
DO NOT ENTER CROSSWALK
PUSH BUTTON AND WAIT FOR"
36"x36"
MOUNT ON SIGNAL POLE

VIEW FACING CROSSING

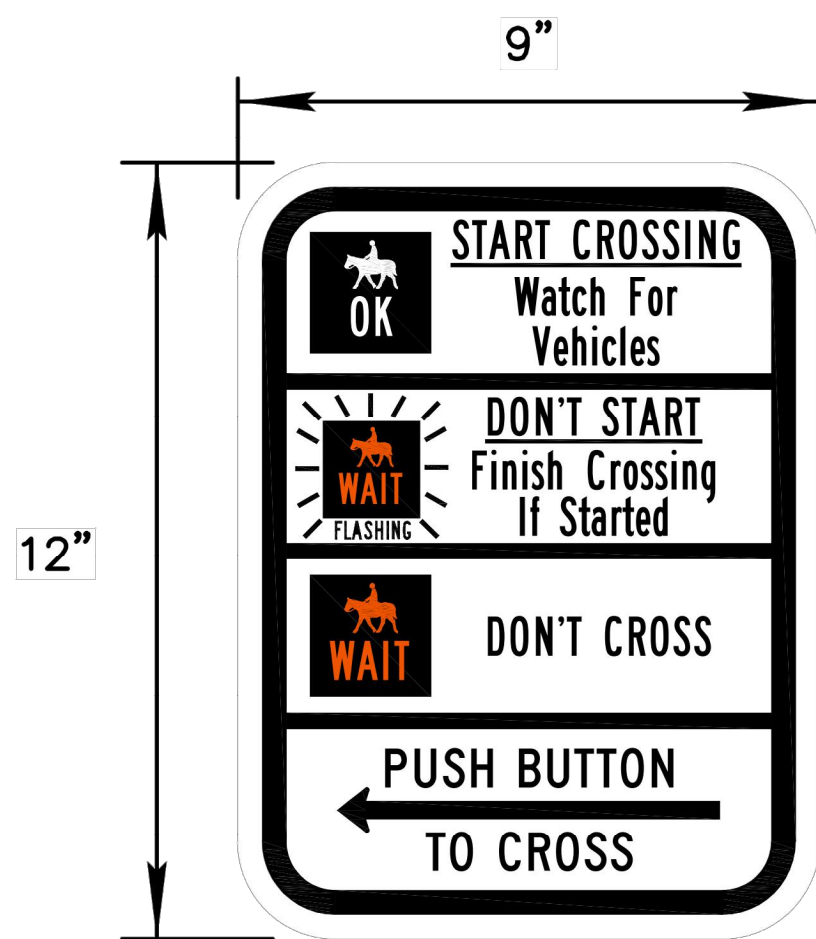
BIKE ILLUMINATED SIGN DETAIL – 'BIKE' ASSEMBLY (BS)



MESSAGE 1
(PORTLAND ORANGE) MESSAGE 2
(LUNAR WHITE)

BIKE ASSEMBLY DETAIL
NTS

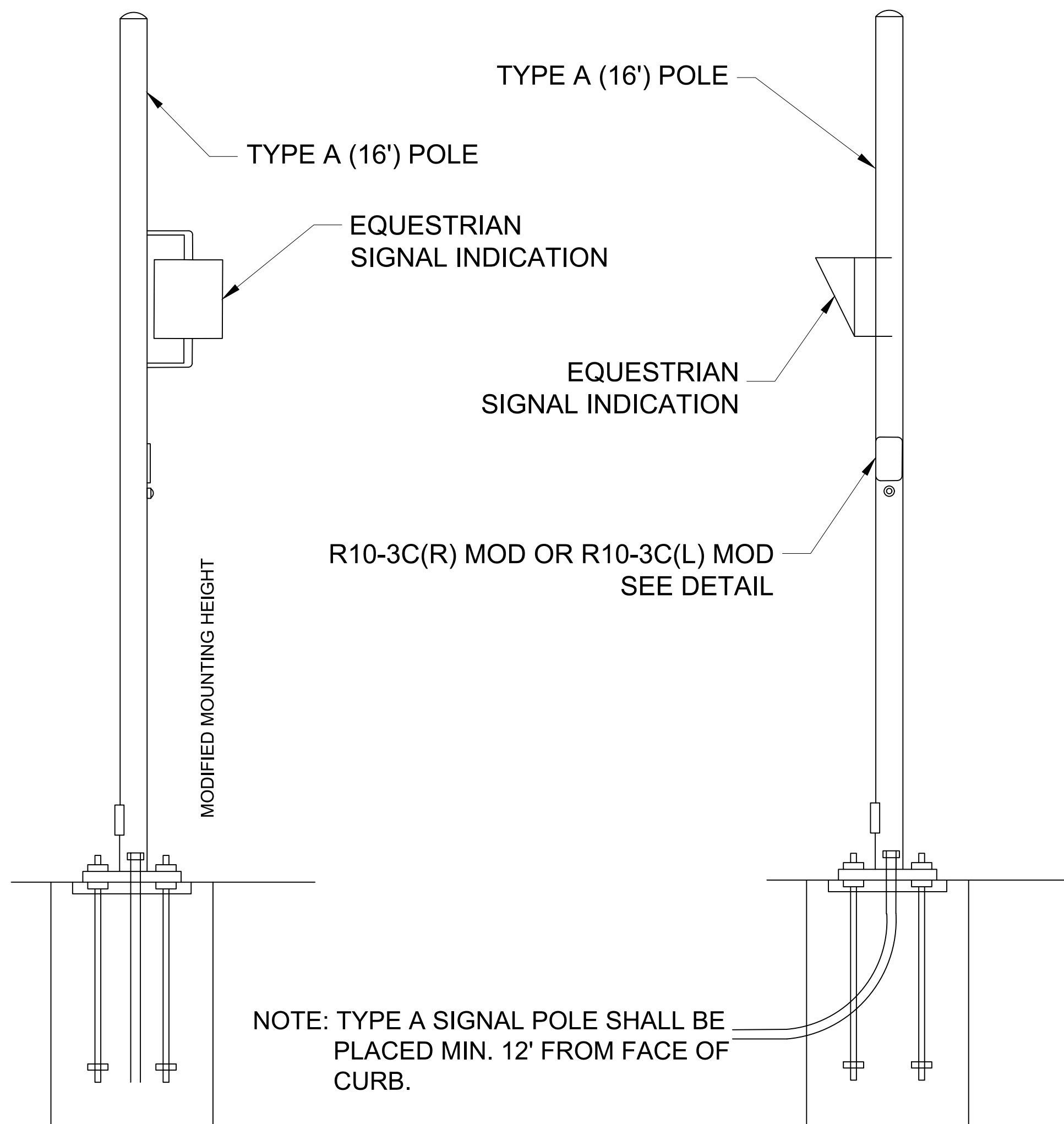
R10-3C MOD SIGN FORMAT



EQUESTRIAN ILLUMINATED SIGN DETAIL – 'EQUESTRIAN' ASSEMBLY (ES)





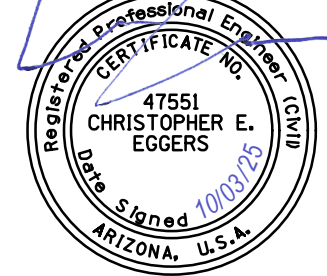

MESSAGE 1
(PORTLAND ORANGE) MESSAGE 2
(LUNAR WHITE)



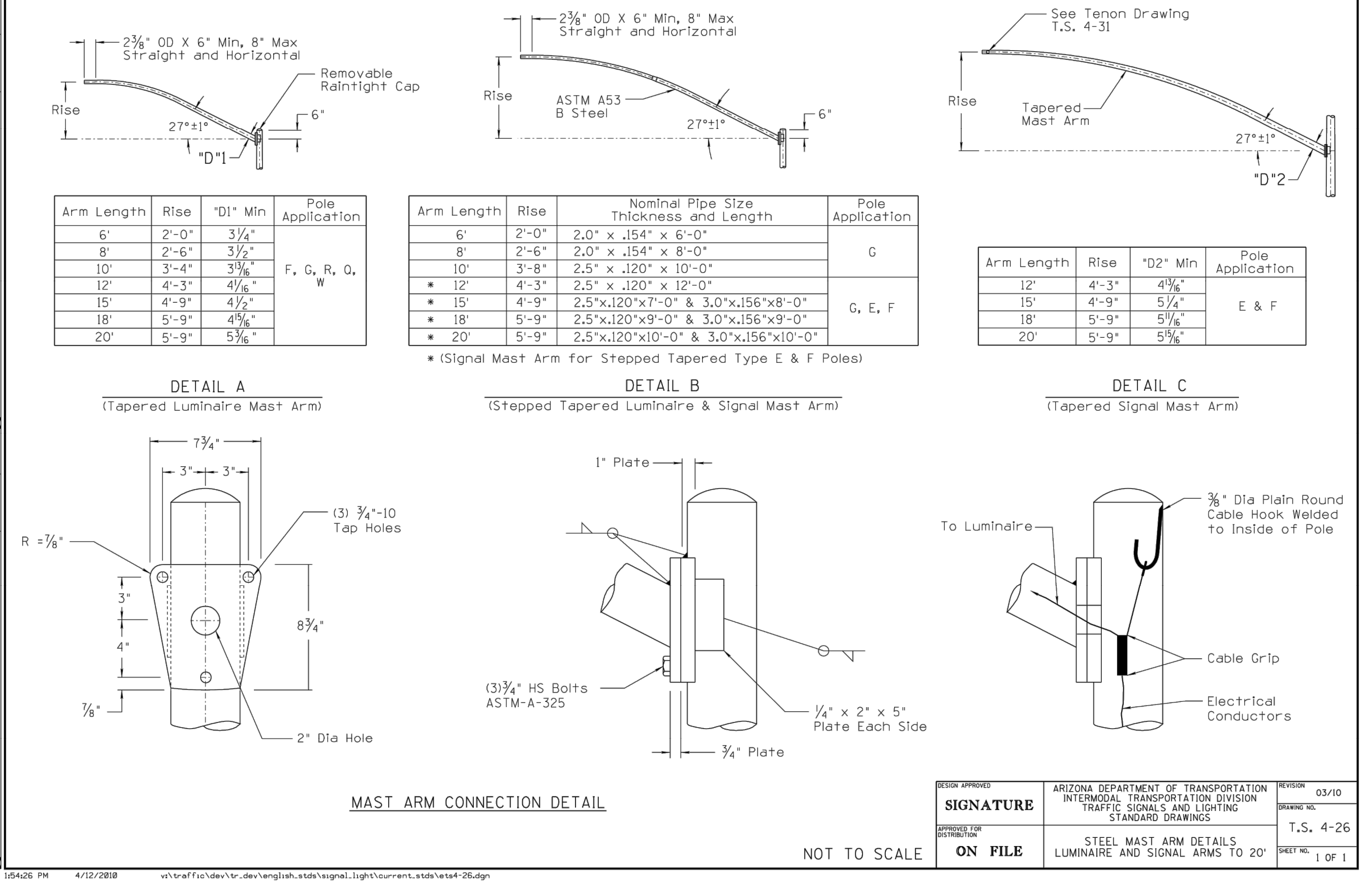
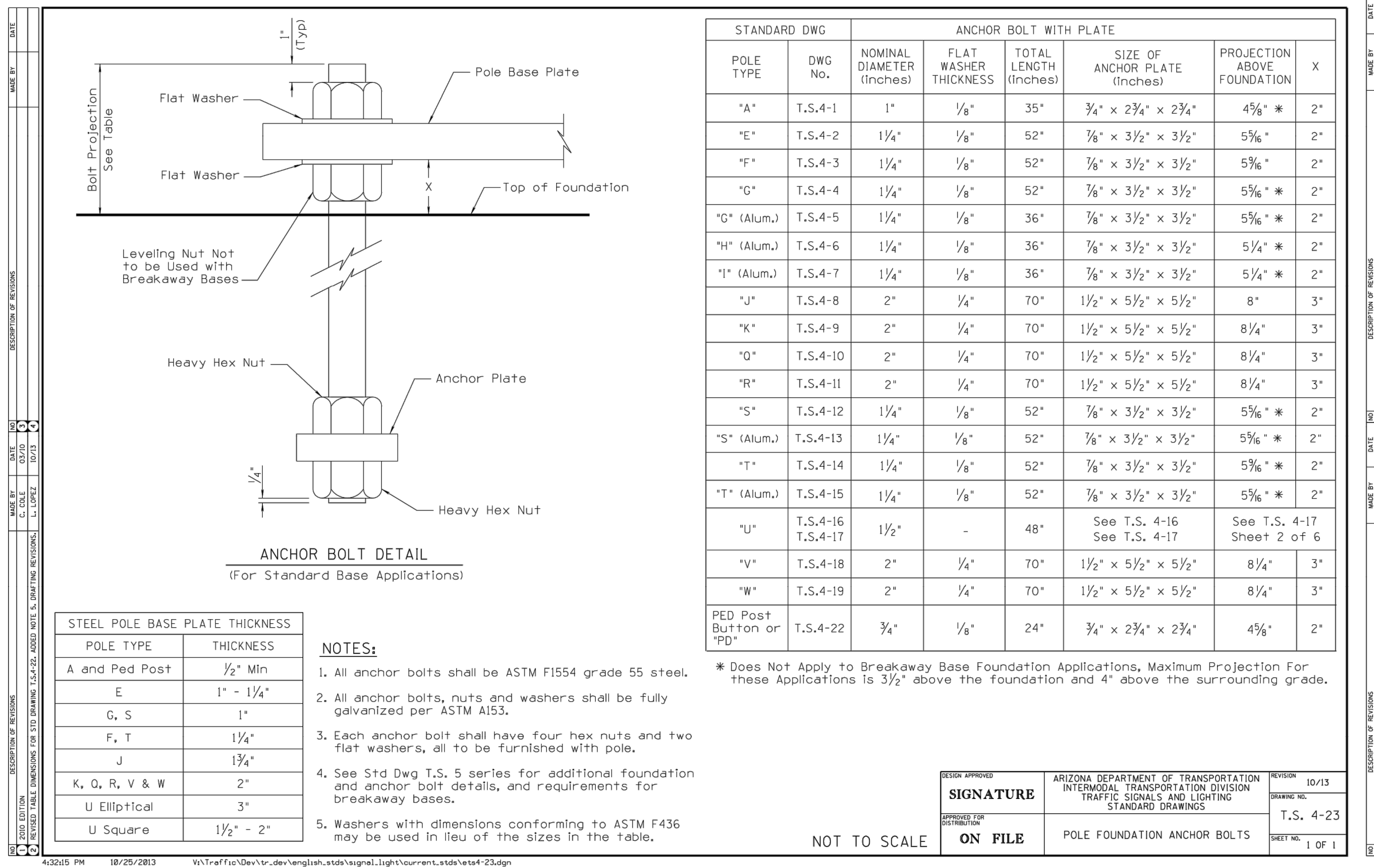
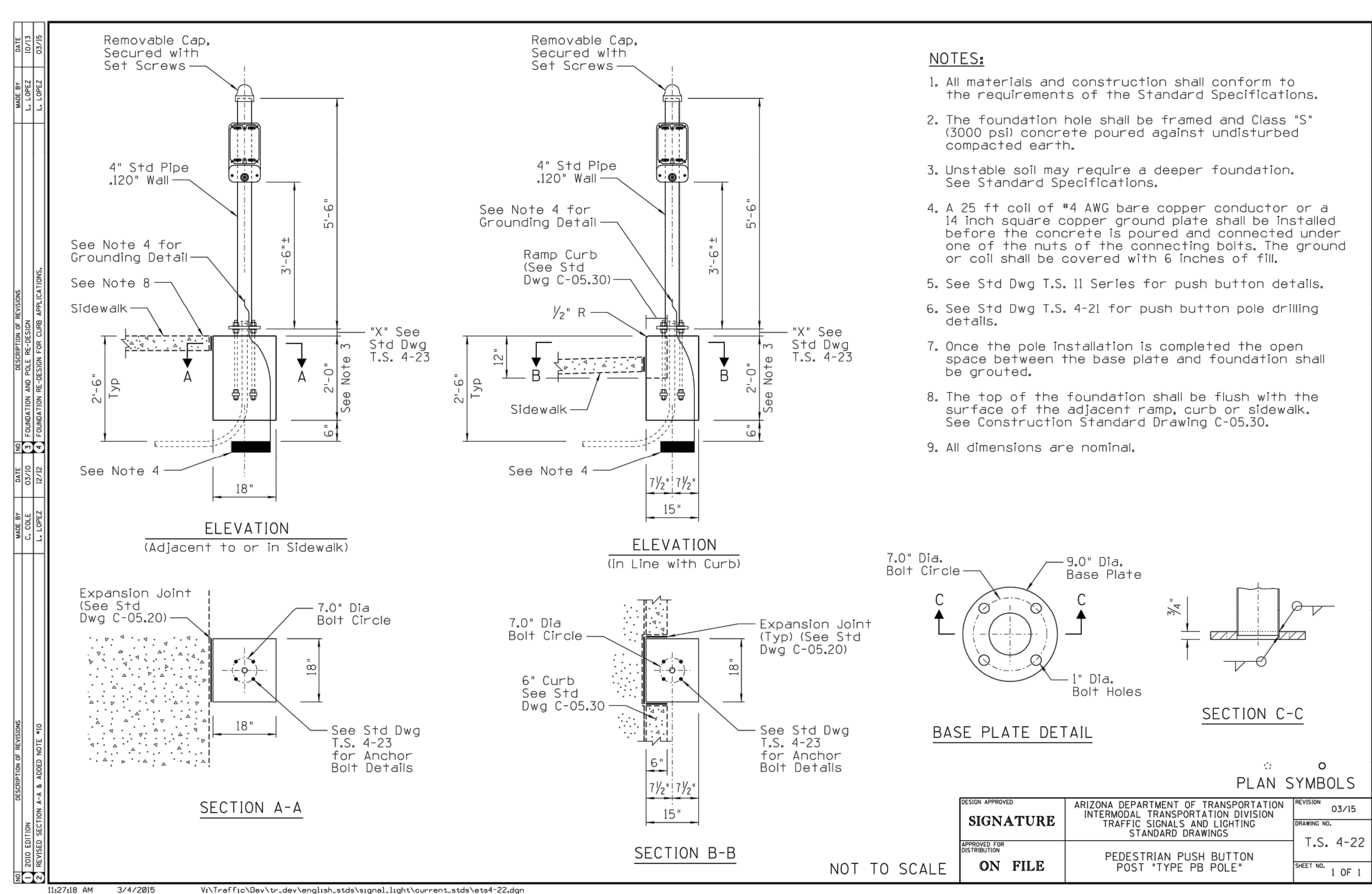
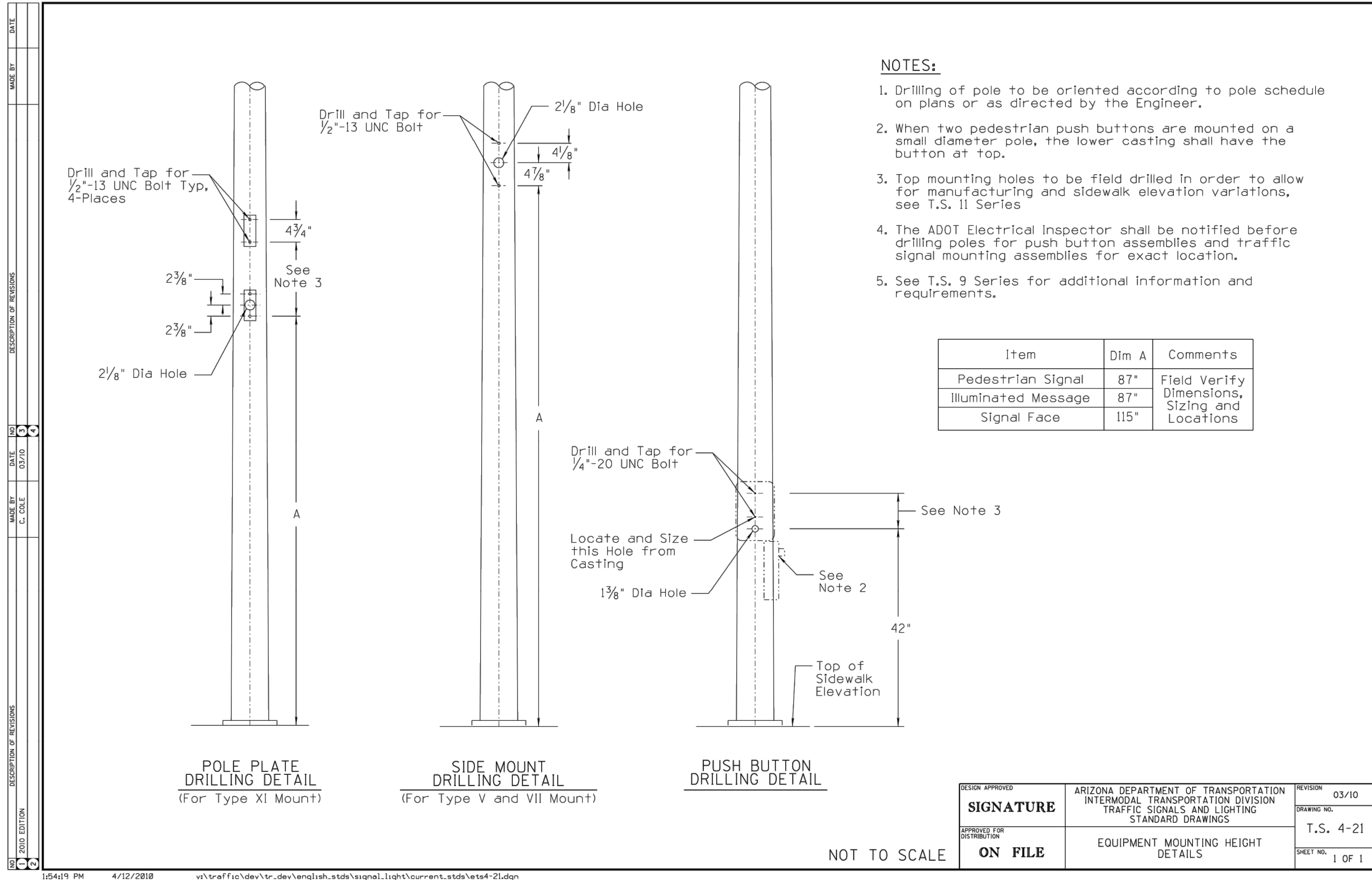
VIEW FACING CROSSING

VIEW FACING TRAFFIC SIGNAL

EQUESTRIAN ASSEMBLY DETAIL
NTS

<div>Contact Arizona 911 at least two full working days before you begin excavation</div> <div> Call 911 or click Arizona911.com</div>		<div></div> <div>TOWN OF QUEEN CREEK</div>	
<div></div>		<div>POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY AND DRAINAGE IMPROVEMENTS</div>	
<div></div>		<div>3133 West Frye Road Chandler, Arizona 85226 Tel. 480.687.6100 www.stantec.com</div>	
TRAFFIC SIGNAL DETAILS			
DESIGNED BY		MH	
DRAWN BY		BE	
DRAWING NO.		TS004	
		SHEET 80 OF 133	

PROJECT NO. A1405, POWER ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025



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ARIZONA 911
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TOWN OF QUEEN CREEK

POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS

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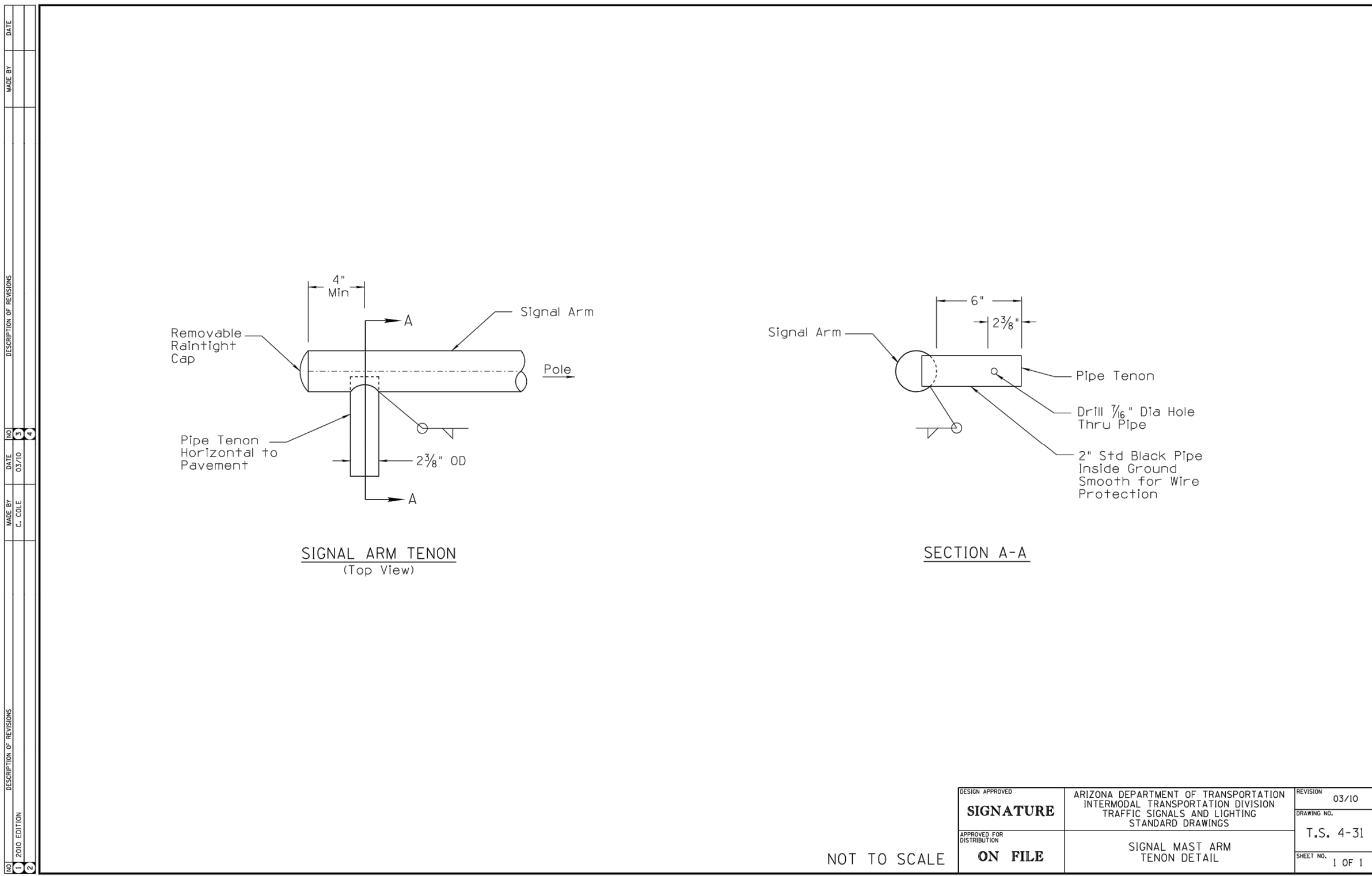
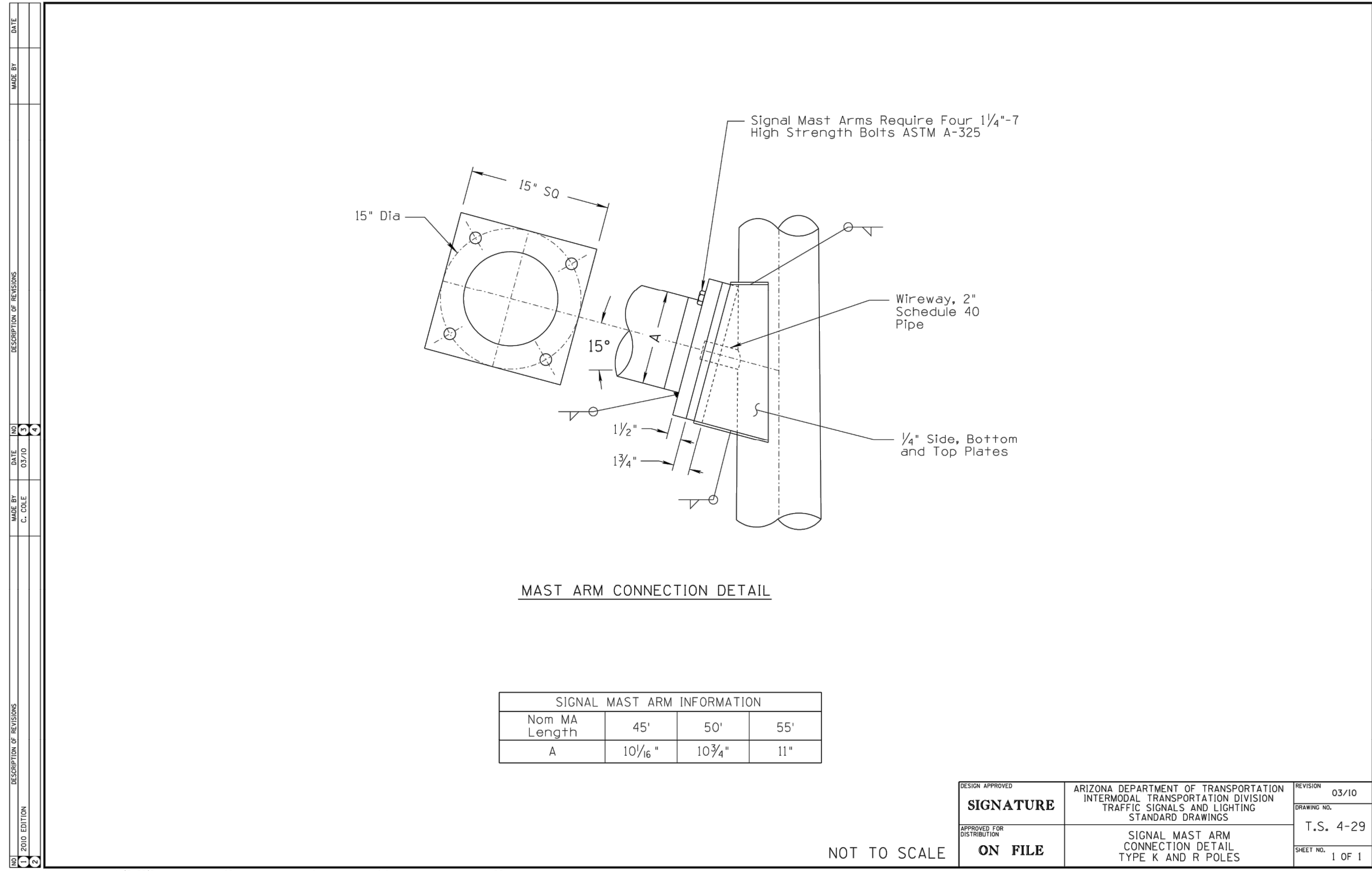
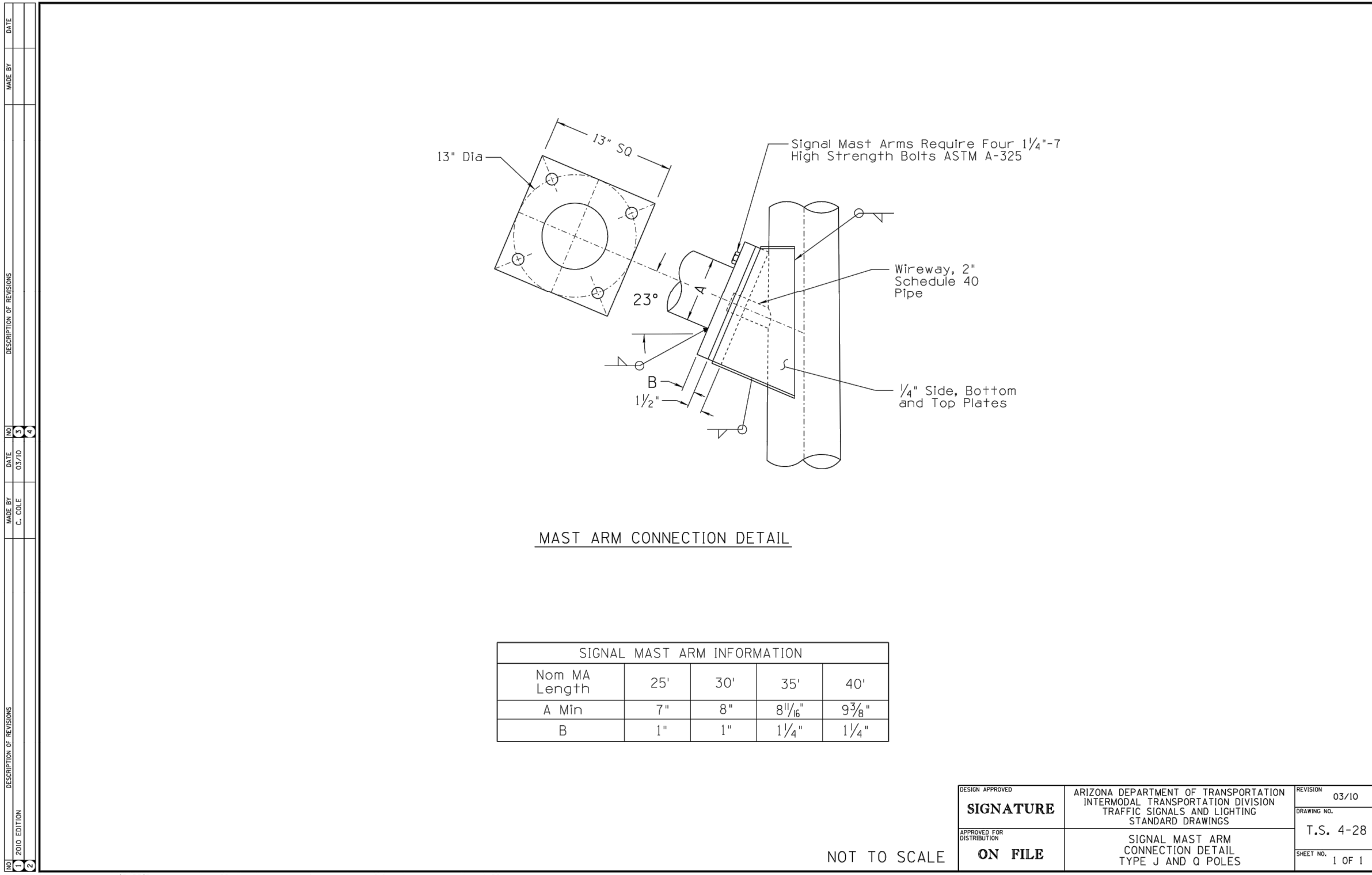
TRAFFIC SIGNAL DETAILS

DESIGNED BY	MM
DRAWN BY	BE

CIP PROJ NO. A1405

DRAWING NO.	TS004b	SHEET 82 OF 133
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ARIZONA811

Call 811 or click Arizona811.com

TOWN OF
QUEEN CREEK

POWER ROAD:
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www.stantec.com

Professional Engineer
47551
CHRISTOPHER E. EGGERS
Signed 10/03/25
ARIZONA, U.S.A.

Stantec

TRAFFIC SIGNAL DETAILS

DESIGNED BY MH

DRAWN BY BE

CIP PROJ NO. A1405

DRAWING NO. TS004c

SHEET 83 OF 133

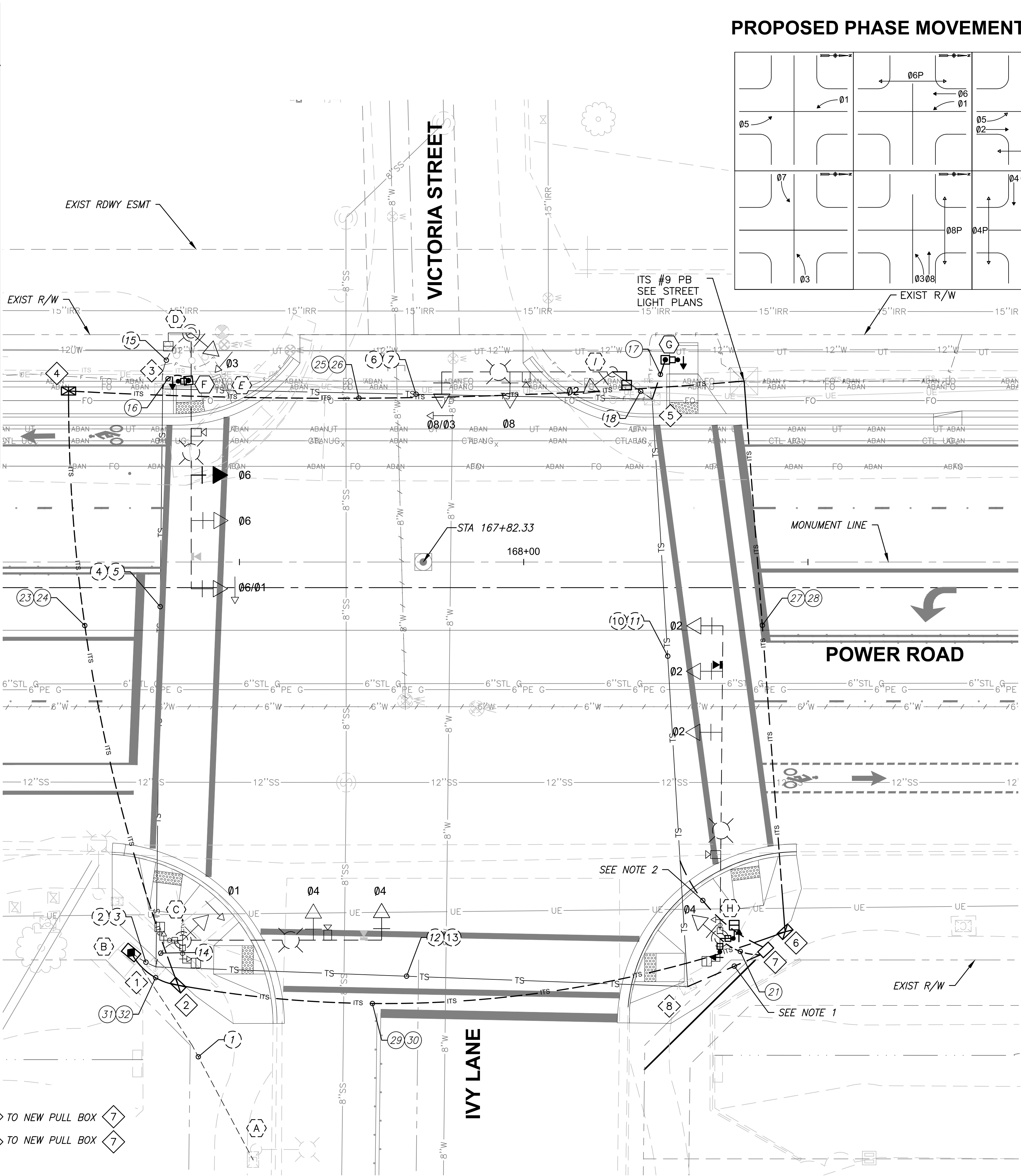
PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

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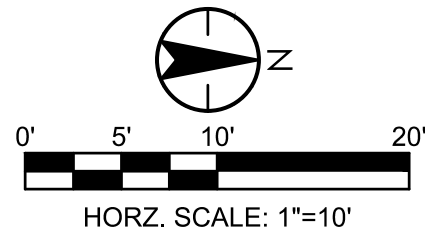
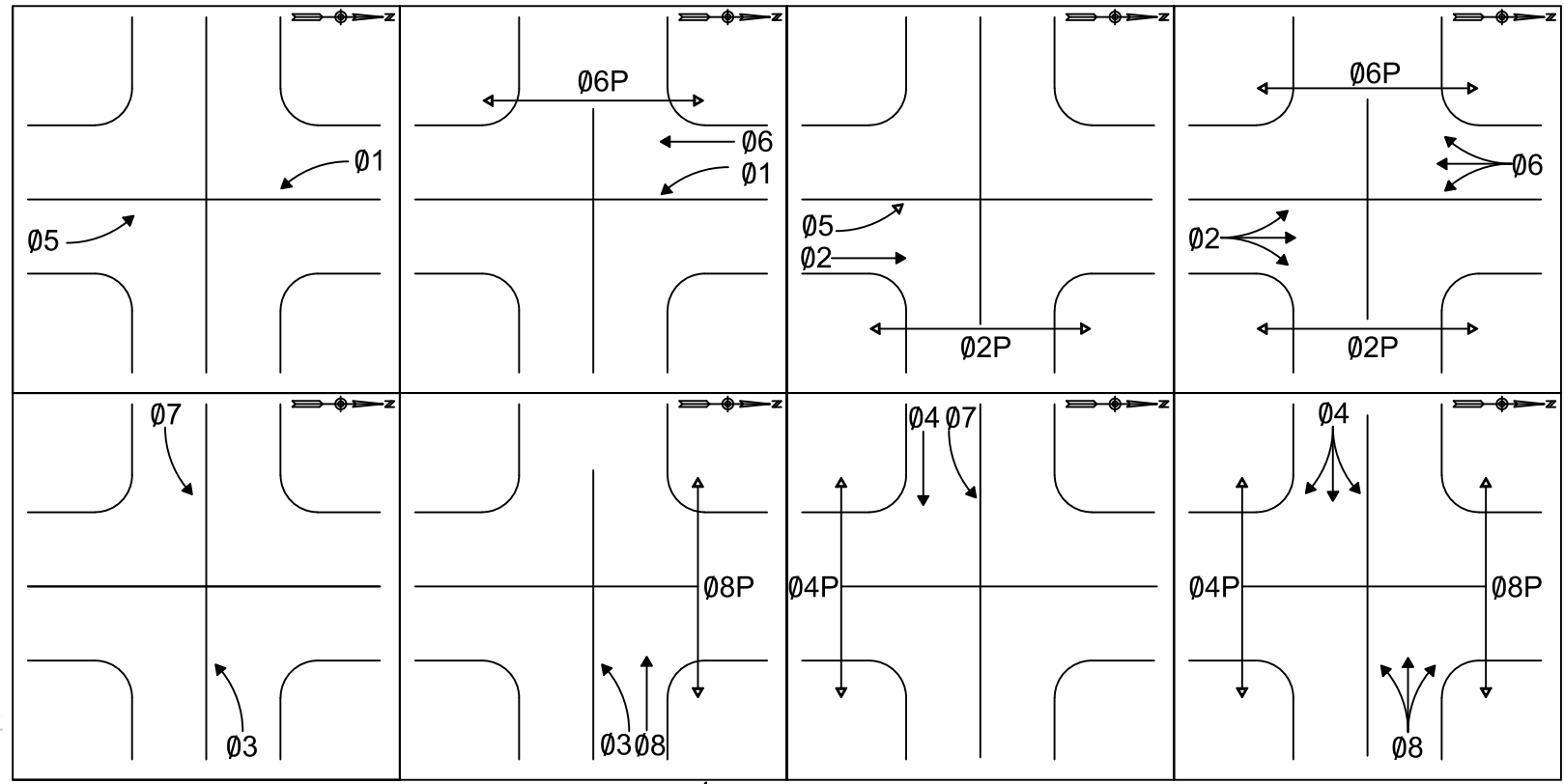
PULL BOX SCHEDULE			
NO.	TYPE	LOCATION	REMARKS
1	-	-	EXISTING TO REMAIN
2	NO. 7 W/ EXT	STA 167+39.22, 74.44' RT POWER ROAD	PROVIDE AND INSTALL PER ADOT T.S. 1-4 AND TOQC STD DET ITS-05
3	-	-	EXISTING TO REMAIN. ADJUST TO GRADE, SEE ROADWAY PLANS.
4	NO. 7 W/ EXT	STA 167+19.94, 30.80' LT POWER ROAD	PROVIDE AND INSTALL PER ADOT T.S. 1-4
5	-	-	EXISTING TO REMAIN. ADJUST TO GRADE, SEE ROADWAY PLANS.
6	NO. 7 W/ EXT	STA 168+45.97, 65.04' RT ± POWER ROAD	PROVIDE AND INSTALL PER ADOT T.S. 1-4 AND TOQC STD DET ITS-05
7	NO. 7	STA 168+42.56, 68.23' RT ± POWER ROAD	PROVIDE AND INSTALL PER ADOT T.S. 1-4
8	-	STA 168+28.84, 74.70' RT ± POWER ROAD	REMOVE





NOTES:

- EXTEND EXISTING CONDUITS (12) AND (13) FROM EXISTING PULL BOX 8 TO NEW PULL BOX 7
- EXTEND EXISTING CONDUITS (10) AND (11) FROM EXISTING PULL BOX 8 TO NEW PULL BOX 7



PROPOSED PHASE MOVEMENTS



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 17551 CHRISTOPHER E. EGERS Signed 10/03/25 ARIZONA, U.S.A.		POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY AND DRAINAGE IMPROVEMENTS  3133 West Frye Road Chandler, Arizona 85226 Tel. 480.687.6100 www.stantec.com	
TRAFFIC SIGNAL PLAN			
DESIGNED BY: MH		CIP PROJ NO. A1405	
DRAWN BY: BE			
DRAWING NO. TS005		SHEET 84 OF 133	

POLE SCHEDULE

POWER ROAD AND IVY LANE / VICTORIA STREET SIGNAL

TRAFFIC SIGNAL CONTROLLER							REMARKS	LOCATION
CABINET	TYPE	CONTROLLER		AUX. CONTROL				
<div><div>A</div><div></div></div>	-	-		-			EXISTING TO REMAIN	-
<div><div>B</div><div></div></div>	ADOT TYPE V	ECONOLITE ATC TYPE 1 COBALT		-			NEW CONTROLLER CABINET ON EXISTING FOUNDATION. PER TOQC STD DET TS-01. INSTALL NEW BATTERY BACKUP SYSTEM. SEE TOQC AML. REMOVE AND SALVAGE EXISTING CONTROLLER CABINET.	-
POLE		MAST ARM		SIGNALS		P.B.	REMARKS	LOCATION
NO.	TYPE	SIG.	LUM.	MTG.	FACE	SIGN		
<div><div>C</div><div></div></div>	-	-	-	-	-	-	1. EXISTING TRAFFIC SIGNAL POLE, MAST ARM, LUMINAIRE AND ALL OTHER FIXTURES TO REMAIN.	-
<div><div>D</div><div></div></div>	-	-	-	1-II	1-F	-	1. EXISTING TRAFFIC SIGNAL POLE, MAST ARM, LUMINAIRE AND ALL OTHER FIXTURES TO REMAIN, UNLESS OTHERWISE NOTED. 2. INSTALL (1) NEW TYPE F SIGNAL HEAD 3. REMOVE EXISTING VICTORIA SIGN 4. FURNISH AND INSTALL NEW BLUE IISNS	-
<div><div>E</div><div></div></div>	-	-	-	-	-	-	1. REMOVE EXISTING PUSH BUTTON POLE, FOUNDATION AND PUSH BUTTON	STA. 167+41.02, 31.93' LT
<div><div>F</div><div></div></div>	PB	-	-	-	-	R10-3 (R)	1. INSTALL NEW "PB" POLE PER ADOT STD DTL T.S. 4-22 2. INSTALL (1) NEW ADA PEDESTRIAN PUSH BUTTON WITH TOWN LOGO AND SIGNAGE	STA. 167+41.02, 31.93' LT
<div><div>G</div><div></div></div>	PB	-	-	-	-	R10-3 (L)	1. INSTALL NEW "PB" POLE PER ADOT STD DTL T.S. 4-22 2. INSTALL (1) NEW ADA PEDESTRIAN PUSH BUTTON WITH TOWN LOGO AND SIGNAGE	STA. 168+24.91, 35.59' LT
<div><div>H</div><div></div></div>	-	-	-	1-VII	1-M/H* 1-M/H	R10-3 (R) R10-3 (L)	1. EXISTING TRAFFIC SIGNAL POLE, MAST ARM, LUMINAIRE AND ALL OTHER FIXTURES TO REMAIN, UNLESS OTHERWISE NOTED. 2. REMOVE EXISTING PUSH BUTTON 3. INSTALL (1) NEW M/H W/COUNTDOWN, AND REINSTALL (1) EXISTING M/H. 4. INSTALL (2) NEW ADA PEDESTRIAN PUSH BUTTON WITH TOWN LOGO & SIGNAGE	-
<div><div>I</div><div></div></div>	-	-	-	1-VII	1-M/H	-	1. EXISTING TRAFFIC SIGNAL POLE, MAST ARM, LUMINAIRE AND ALL OTHER FIXTURES TO REMAIN, UNLESS OTHERWISE NOTED. 2. INSTALL (1) NEW M/H W/COUNTDOWN	-

TRAFFIC SIGNAL CONDUCTOR NOTES:

1.

IMSA 25, 7, AND 4 CONDUCTOR CABLES SHALL BE NO. 14 AWG IMSA 19-1. ALL IMSA CONDUCTORS SHALL BE SOLID.
2.

ALL NEW WIRE (BOTH UNDERGROUND AND OVERHEAD) SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
3.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING MULTI-COLORED CONDUCTORS WHICH MEET THE COLOR CODING IDENTIFIED IN TOWN OF QUEEN CREEK STANDARD DETAIL TS-02.
4.

WHEN SPLICING 25 CONDUCTOR CABLES IN PULL BOXES, ONLY THOSE CONDUCTORS THAT WILL BE UTILIZED IN THE SPECIFIC PULL BOX ARE TO BE CUT. ALL OTHER CONDUCTORS SHALL RUN THROUGH THE PULL BOX UNCUT. 25 CONDUCTOR SHALL RUN CONTINUOUSLY FROM CONTROLLER CABINET THROUGH ALL PULL BOXES.
5.

INSTALL NO. 8 BARE BOND IN ALL EMPTY CONDUITS.
6.

ALL LUMINAIRES AND ILLUMINATED STREET NAME SIGNS SHALL HAVE SEPARATE FUSES INSTALLED IN PULL BOXES AT THE BASE OF THE POLE.
7.

ALL PULL BOXES AND LIDS SHALL BE "CHRISTY FIBERLITE". LIDS SHALL BE PROVIDED WITH LOCKING DEVICES AND APPROPRIATE WORDING ON LIDS "TRAFFIC SIGNAL".
8.

WHEN INSTALLING TWO PEDESTRIAN SIGNAL HEADS ON ONE SUPPORT POLE, A 4 CONDUCTOR CABLE SHALL BE RAN TO EACH SIGNAL HEAD.
9.

SPLICES IN PULL PULL BOXES SHALL BE MADE WITH IDEAL (OR APPROVED EQUAL) SILICONE FILLED WIRE NUTS.
10.

CONTRACTOR SHALL USE COLORED TAPE TO CODE ALL TRAFFIC SIGNAL CONDUCTOR CABLES, EMERGENCY VEHICLE PRE-EMPTION CABLES, AND VIDEO DETECTION CABLES IN EACH PULL BOX PER TOWN OF QUEEN CREEK STANDARD DETAIL TS-03.
11.

SPLICING OF CONDUCTORS SHALL NOT BE ALLOWED INSIDE CONDUITS.
12.

ALL SIGNAL COMMON'S SHALL BE CRIMPED OR SPLIT BOLT.

TRAFFIC SIGNAL ITS NOTES:

1.

THE CONTRACTOR SHALL PROVIDE AND INSTALL (1) CCTV CAMERA AT THE LOCATION INDICATED ON THE PLANS. CAT5E CABLE SHALL RUN UN-SPLICED FROM THE CAMERA TO THE CONTROLLER CABINET. CONTRACTOR SHALL PROVIDE (1) SPARE CCTV CAMERA WITH MOUNTING BRACKET AND SURGE PROTECTION SHALL BE PROVIDED TO THE TOWN.
2.

THE CONTRACTOR SHALL PROVIDE (1) 12 SMFO GATOR PATCH CABLE THAT EXTENDS FROM THE NEAREST NO. 9 PULL BOX TO THE CONTROLLER CABINET, WITH (2) FIBER OPTIC GEL SPLICE CLOSURE.
3.

THE CONTRACTOR SHALL PROVIDE AND INSTALL (1) ARID DEVICE (BLUETOAD) WITH ETHERNET COMM.
4.

THEN CONTRACTOR SHALL PROVIDE (1) ETHERNET SWITCH.
5.

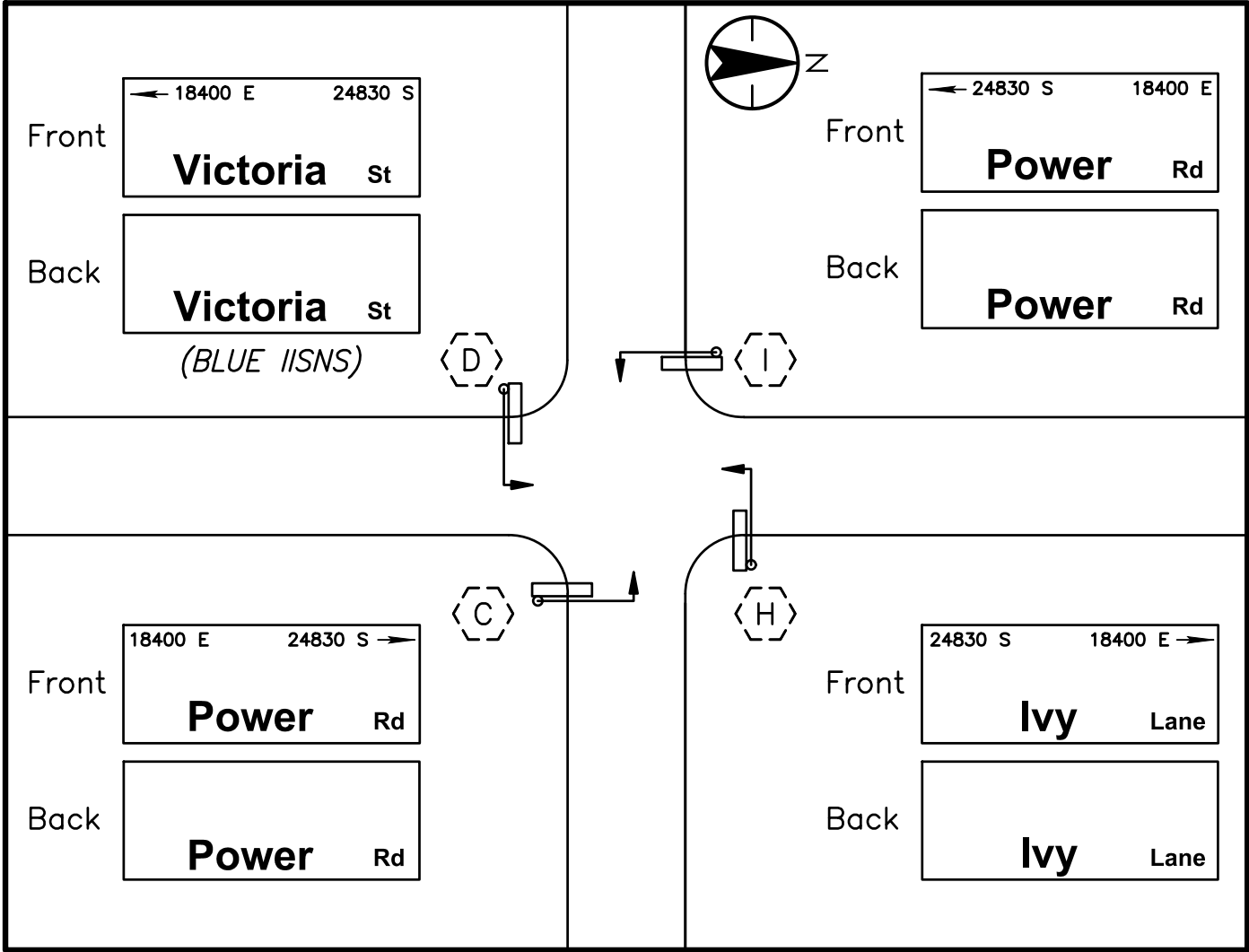
SURGE PROTECTION IS REQUIRED FOR THE CCTV CAMERA AND RADIOS.
6.

THE CONTRACTOR SHALL DELIVER THE CCTV CAMERA, WIRELESS RADIO, AND ETHERNET SWITCH TO THE TOQC TRAFFIC DEPARTMENT (480-358-3132) FOR CONFIGURATION A MINIMUM OF 10 WORKING DAYS PRIOR TO INSTALLATION.
7.

PRIOR TO INSTALLATION OF ANY ITS DEVICES EITHER ON THE POLE OR IN THE CONTROLLER CABINET, THE CONTRACTOR SHALL CONTACT THE TOQC TRAFFIC DEPARTMENT AT 480-358-3132 FOR APPROVAL OF INSTALLATION LOCATION.
8.

ALL #9 VAULT LIDS SHALL BE INSCRIBED "QUEEN CREEK FIBER OPTIC"
9.

MATERIALS, WORKMANSHIP SHALL ADHERE TO THE REQUIREMENTS OF THE TOWN OF QUEEN CREEK TRAFFIC APPROVED MATERIAL LIST.



INTERNALLY ILLUMINATED STREET SIGN DETAIL

CONDUCTOR SCHEDULE

	CONDUIT RUN NUMBERS	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)
	CONDUIT SIZE IN INCHES	E	E	E	E	E	E	E			E	E	E	E	E	E	2	2	E			3		3	3	3	3	3	3	3	3	3	3
SIGNAL HEADS PUSH BUTTONS	#14, IMSA 19-1, 25 CONDUCTOR		2		2		2				2		2																				
	#14, IMSA 19-1, 7 CONDUCTOR																					1											
	#14, IMSA 19-1, 4 CONDUCTOR															1	2	1	1			7											
	#8, WHITE THW, COMMON, STRANDED				1		1				1	1	1									1											
	#8, GREEN THW		1		1	1	1	1			1	1	1	1		1	1	1	1			1		1	1	1	1	1	1	1	1	1	
LUMINAIRES (120V)	#10, BLACK XHHW, RED				1		1				1		1									1											
	#10, WHITE XHHW				1		1				1		1									1											
INTERNALLY ILLUMINATED STREET NAME SIGNS (IISNS)	#10, BLACK XHHW, BROWN				1		1				1		1									1											
SERVICE	#6 (120/240)																																
	#10 (120/240)																																
	#12 (120/240)																																
PRE-EMPTION	DETECTOR CABLE			3		2		1						1								1											
OTHER	#8 BARE BOND(ONLY IN EMPTY CONDUIT)																																
	VIDEO DETECTION CABLE**			3		2		1						1								1											

** AUTOSCOPE CABLE, 3 CONDUCTOR, 18AWG, 600V, POLYETHYLENE JACKET, CONDUIT RATE

- VDC

=

VIDEO DETECTION CAMERA
- SMA

=

SIGNAL MAST ARM
- LMA

=

LUMINAIRE MAST ARM
- EVD

=

EMERGENCY VEHICLE DETECTION
- CCTV

=

DOVE PTZ CAMERA
- IISNS

=

INTERNALLY ILLUMINATED STREET NAME SIGN
- WRA

=

WIRELESS RADIO/ANTENNA
- *

=

EXISTING
- AML

=

APPROVED MATERIAL LIST

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**TOWN OF
QUEEN CREEK**

POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS

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Tel. 480.687.6100
www.stantec.com

TRAFFIC SIGNAL EQUIPMENT SHEET

DESIGNED BY MH

CIP PROJ NO. A1405

DRAWN BY BE

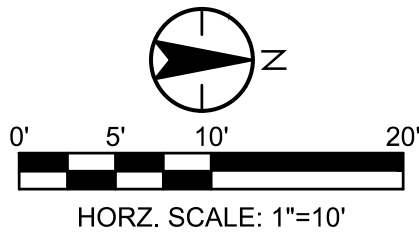
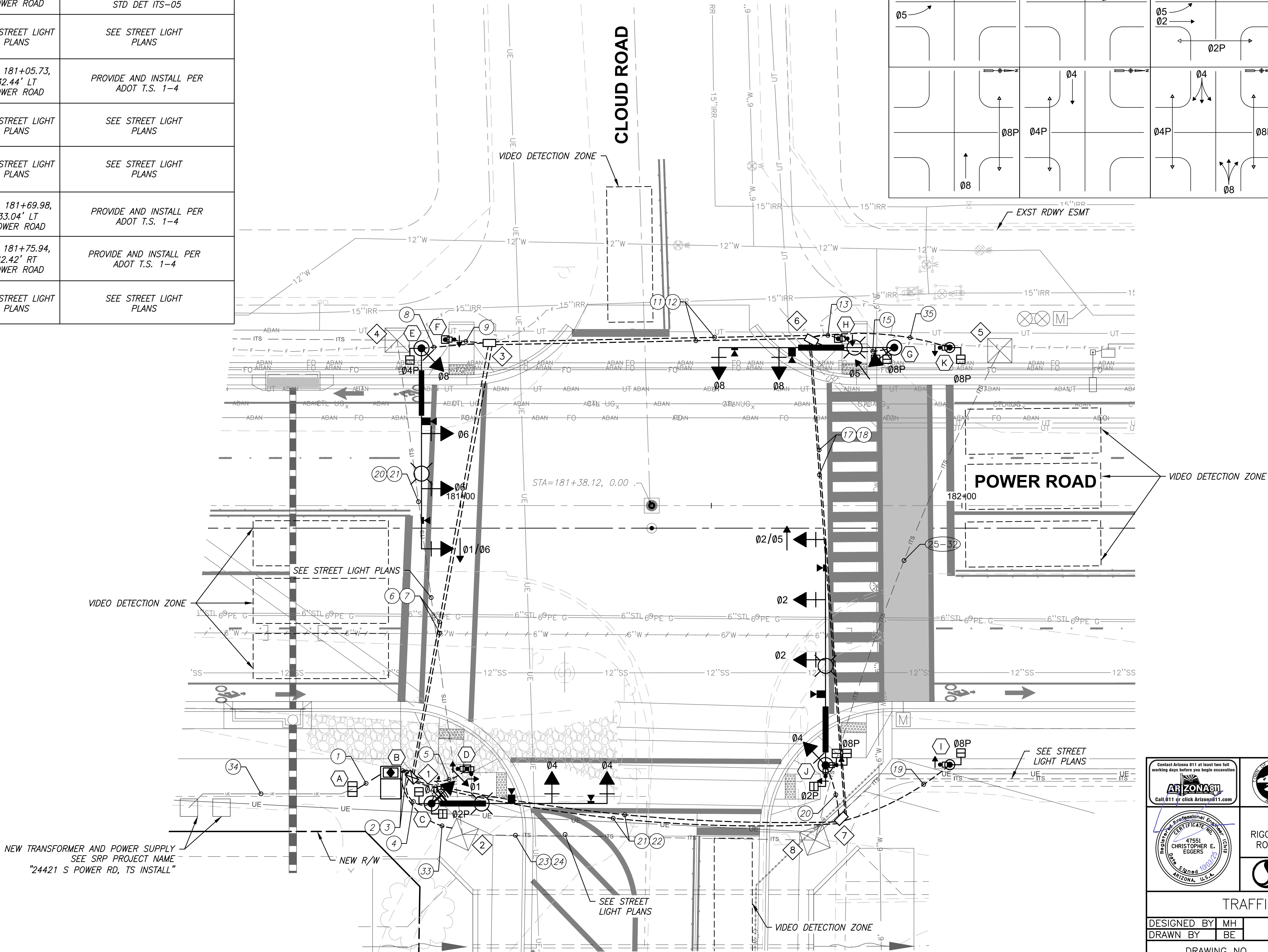
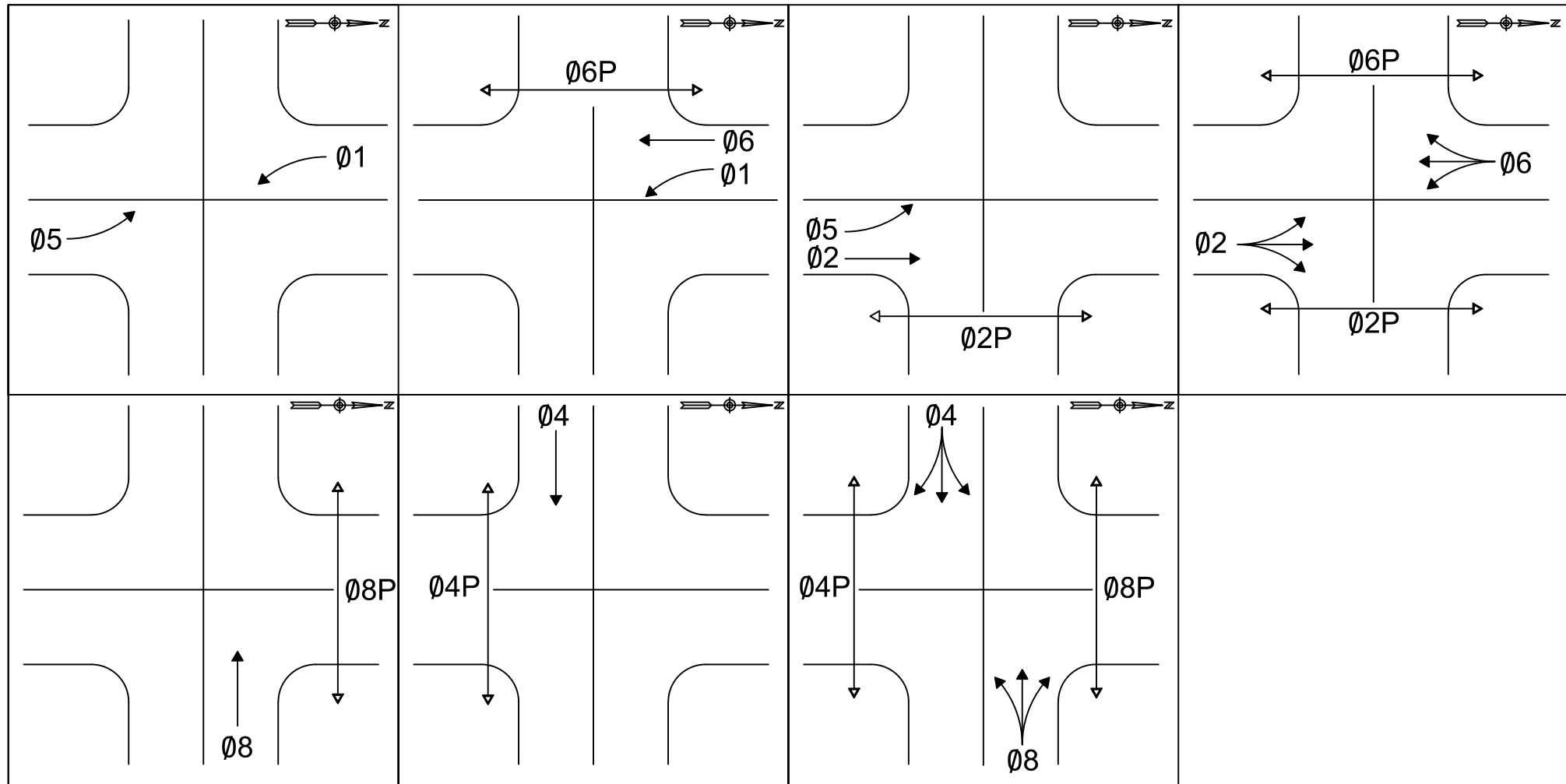
DRAWING NO. TS006

SHEET 85 OF 133

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PULL BOX SCHEDULE			
NO.	TYPE	LOCATION	REMARKS
1	NO. 7 W/ EXT	STA 180+90.27, 54.19' RT POWER ROAD	PROVIDE AND INSTALL PER ADOT T.S. 1-4 AND TOQC STD DET ITS-05
2	NO. 9	SEE STREET LIGHT PLANS	SEE STREET LIGHT PLANS
3	NO. 7	STA 181+05.73, 32.44' LT POWER ROAD	PROVIDE AND INSTALL PER ADOT T.S. 1-4
4	NO. 7 W/ EXT	SEE STREET LIGHT PLANS	SEE STREET LIGHT PLANS
5	NO. 9	SEE STREET LIGHT PLANS	SEE STREET LIGHT PLANS
6	NO. 7	STA 181+69.98, 33.04' LT POWER ROAD	PROVIDE AND INSTALL PER ADOT T.S. 1-4
7	NO. 7	STA 181+75.94, 62.42' RT POWER ROAD	PROVIDE AND INSTALL PER ADOT T.S. 1-4
8	NO. 9	SEE STREET LIGHT PLANS	SEE STREET LIGHT PLANS

PROPOSED PHASE MOVEMENTS



<p>Contact Arizona 911 at least two full working days before you begin excavation</p> <p>ARIZONA</p> <p>Call 911 or click Arizona911.com</p>		<p>TOWN OF QUEEN CREEK</p>
<p>Professional Engineer No. 17551 CHRISTOPHER E. EGGERS Signed 10/03/25 ARIZONA, U.S.A.</p>		<p>POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY AND DRAINAGE IMPROVEMENTS</p>
<p>3133 West Frye Road Chandler, Arizona 85226 Tel. 480.487.6100 www.stantec.com</p>		<p>Stantec</p>
<p>TRAFFIC SIGNAL PLAN</p>		
<p>DESIGNED BY: MH</p>		<p>CIP PROJ NO. A1405</p>
<p>DRAWN BY: BE</p>		
<p>DRAWING NO. TS007</p>		<p>SHEET 86 OF 133</p>

POLE SCHEDULE

POWER ROAD AND CLOUD ROAD SIGNAL

TRAFFIC SIGNAL CONDUCTOR NOTES:

1. IMSA 25, 7, AND 4 CONDUCTOR CABLES SHALL BE NO. 14 AWG IMSA 19-1. ALL IMSA CONDUCTORS SHALL BE SOLID.

2. ALL NEW WIRE (BOTH UNDERGROUND AND OVERHEAD) SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING MULTI-COLORED CONDUCTORS WHICH MEET THE COLOR CODING IDENTIFIED IN TOWN OF QUEEN CREEK STANDARD DETAIL TS-02.

4. WHEN SPLICING 25 CONDUCTOR CABLES IN PULL BOXES, ONLY THOSE CONDUCTORS THAT WILL BE UTILIZED IN THE SPECIFIC PULL BOX ARE TO BE CUT. ALL OTHER CONDUCTORS SHALL RUN THROUGH THE PULL BOX UN CUT. 25 CONDUCTOR SHALL RUN CONTINUOUSLY FROM CONTROLLER CABINET THROUGH ALL PULL BOXES.

5. INSTALL NO. 8 BARE BOND IN ALL EMPTY CONDUITS.

6. ALL LUMINAIRES AND ILLUMINATED STREET NAME SIGNS SHALL HAVE SEPARATE FUSES INSTALLED IN PULL BOXES AT THE BASE OF THE POLE.
7. ALL PULL BOXES AND LIDS SHALL BE "CHRISTY FIBERLITE". LIDS SHALL BE PROVIDED WITH LOCKING DEVICES AND APPROPRIATE WORDING ON LIDS "TRAFFIC SIGNAL".

8. WHEN INSTALLING TWO PEDESTRIAN SIGNAL HEADS ON ONE SUPPORT POLE, A 4 CONDUCTOR CABLE SHALL BE RAN TO EACH SIGNAL HEAD.

9. SPLICES IN PULL PULL BOXES SHALL BE MADE WITH IDEAL (OR APPROVED EQUAL) SILICONE FILLED WIRE NUTS.

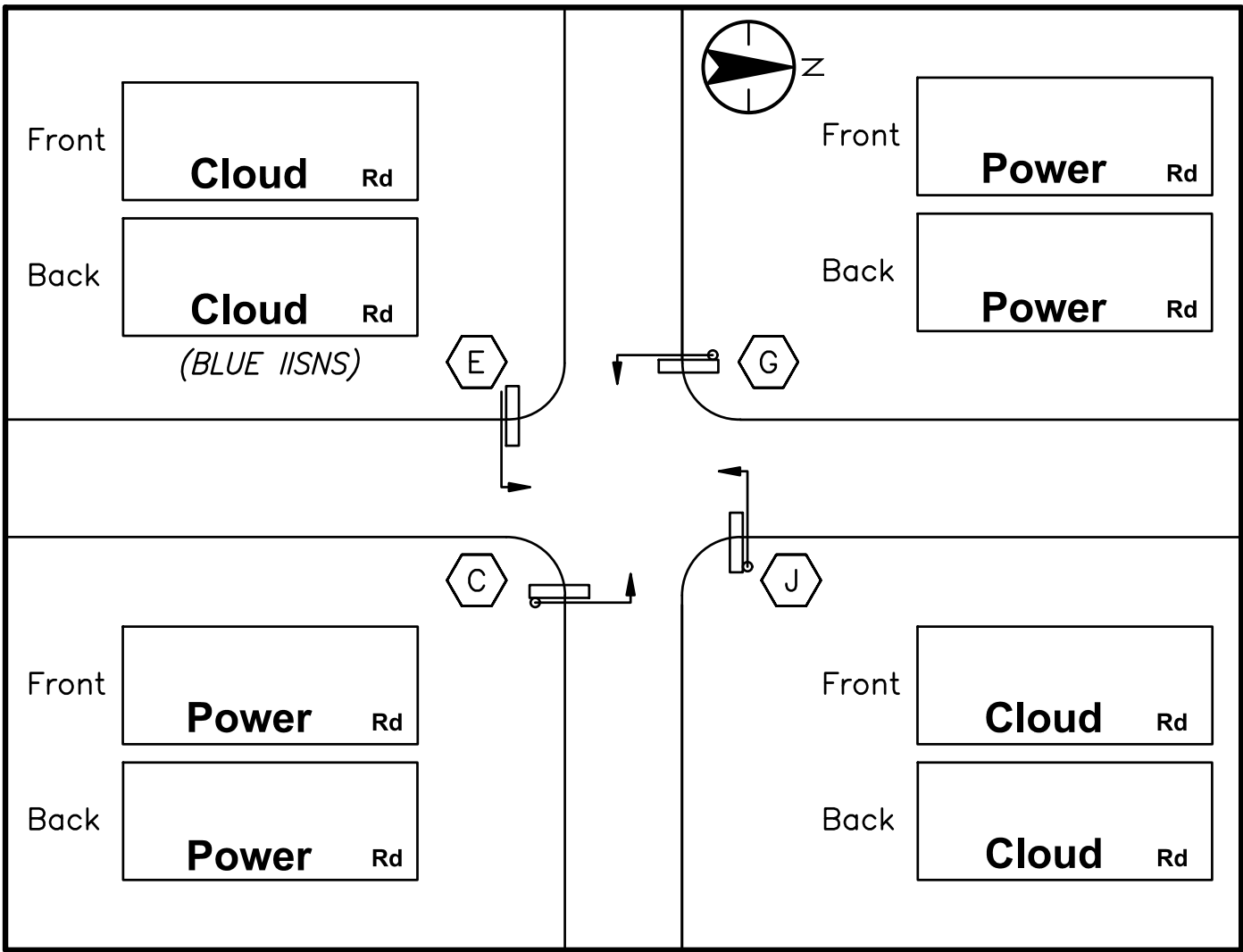
10. CONTRACTOR SHALL USE COLORED TAPE TO CODE ALL TRAFFIC SIGNAL CONDUCTOR CABLES, EMERGENCY VEHICLE PRE-EMPTION CABLES, AND VIDEO DETECTION CABLES IN EACH PULL BOX PER TOWN OF QUEEN CREEK STANDARD DETAIL TS-03.

11. SPLICING OF CONDUCTORS SHALL NOT BE ALLOWED INSIDE CONDUITS.

12. ALL SIGNAL COMMON'S SHALL BE CRIMPED OR SPLIT BOLT.

TRAFFIC SIGNAL ITS NOTES:

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL (1) CCTV CAMERA AT THE LOCATION INDICATED ON THE PLANS. CAT5E CABLE SHALL RUN UN-SPLICED FROM THE CAMERA TO THE CONTROLLER CABINET. CONTRACTOR SHALL PROVIDE (1) SPARE CCTV CAMERA WITH MOUNTING BRACKET AND SURGE PROTECTION SHALL BE PROVIDED TO THE TOWN.
2. THE CONTRACTOR SHALL PROVIDE (1) 12 SMFO GATOR PATCH CABLE THAT EXTENDS FROM THE NEAREST NO. 9 PULL BOX TO THE CONTROLLER CABINET, WITH (2) FIBER OPTIC GEL SPLICE CLOSURE.
3. THE CONTRACTOR SHALL PROVIDE AND INSTALL (1) ARID DEVICE (BLUETOAD) WITH ETHERNET COMM.
4. THEN CONTRACTOR SHALL PROVIDE (1) ETHERNET SWITCH.
5. SURGE PROTECTION IS REQUIRED FOR THE CCTV CAMERA AND RADIOS.
6. THE CONTRACTOR SHALL DELIVER THE CCTV CAMERA, WIRELESS RADIO, AND ETHERNET SWITCH TO THE TOQC TRAFFIC DEPARTMENT (480-358-3132) FOR CONFIGURATION A MINIMUM OF 10 WORKING DAYS PRIOR TO INSTALLATION.
7. PRIOR TO INSTALLATION OF ANY ITS DEVICES EITHER ON THE POLE OR IN THE CONTROLLER CABINET, THE CONTRACTOR SHALL CONTACT THE TOQC TRAFFIC DEPARTMENT AT 480-358-3132 FOR APPROVAL OF INSTALLATION LOCATION.
8. ALL #9 VAULT LIDS SHALL BE INSCRIBED "QUEEN CREEK FIBER OPTIC"
9. MATERIALS, WORKMANSHIP SHALL ADHERE TO THE REQUIREMENTS OF THE TOWN OF QUEEN CREEK TRAFFIC APPROVED MATERIAL LIST.



INTERNALLY ILLUMINATED STREET SIGN DETAIL

TRAFFIC SIGNAL CONTROLLER							REMARKS	LOCATION	
CABINET	TYPE	CONTROLLER	AUX. CONTROL						
A		METER PEDESTAL W/ FOUNDATION	MEUG3A-2020-M100-AZ (MOD)		-		NEW METER PEDESTAL	STA 180+86.03, 53.25' RT POWER ROAD	
B		ADOT TYPE V	ECONOLITE ATC TYPE 1 COBALT		-		NEW CONTROLLER CABINET WITH NEW FOUNDATION. PER TOQC STD DET TS-01. INSTALL NEW BATTERY BACKUP SYSTEM. SEE TOQC AML	STA 180+78.41, 56.54' RT POWER ROAD	
POLE			MAST ARM		SIGNALS		P.B.	REMARKS	LOCATION
NO.		TYPE	SIG.	LUM.	MTG.	FACE	SIGN		
C		Q	35'	20'	2-II 1-VII 1-XI	2-F 2-M/H 1-G	-	1. INSTALL NEW "Q" POLE PER ADOT STD DTL T.S. 4-10 2. INSTALL (1) NEW TYPE G SIGNAL HEAD 3. FURNISH AND INSTALL NEW EVD 4. INSTALL (2) NEW TYPE F SIGNAL HEAD 5. INSTALL (1) NEW AUTOSCOPE VISION VDC ON LMA 6. INSTALL (2) NEW M/H W/ COUNTDOWN 7. INSTALL NEW LUMINAIRE & NEW LUMINAIRE MAST ARM 8. FURNISH AND INSTALL NEW ISNS 9. FURNISH AND INSTALL (2) NEW WRA 10. FURNISH AND INSTALL (1) NEW CCTV CAMERA	STA 180+94.20, 59.43' RT POWER ROAD
D		PB	-	-	-	-	R10-3 (R) R10-3 (L)	1. INSTALL NEW "PB" POLE PER ADOT STD DTL T.S. 4-22 2. INSTALL (2) NEW ADA PEDESTRIAN PUSH BUTTONS WITH TOWN LOGO AND SIGNAGE	STA 181+01.24, 52.50' RT POWER ROAD
E		Q	40'	20'	1-II 2-II 1-V 1-XI	1-G 2-F 1-M/H 1-F	-	1. INSTALL NEW "Q" POLE PER ADOT STD DTL T.S. 4-10 2. INSTALL (1) NEW TYPE G SIGNAL HEAD 3. FURNISH AND INSTALL NEW EVD 4. INSTALL (3) NEW TYPE F SIGNAL HEAD 5. INSTALL (1) NEW AUTOSCOPE VISION VDC ON LMA 6. INSTALL (1) NEW M/H W/ COUNTDOWN 7. INSTALL NEW LUMINAIRE & NEW LUMINAIRE MAST ARM 8. FURNISH AND INSTALL NEW BLUE ISNS	STA 180+92.17, 31.38' LT POWER ROAD
F		PB	-	-	-	-	R10-3 (L)	1. INSTALL NEW "PB" POLE PER ADOT STD DTL T.S. 4-22 2. INSTALL (1) NEW ADA PEDESTRIAN PUSH BUTTONS WITH TOWN LOGO AND SIGNAGE	STA 180+96.92, 33.11' LT POWER ROAD
G		Q	35'	20'	2-II 1-XI 1-VII	2-F 1-G 1-M/H, 1-BS	-	1. INSTALL NEW "Q" POLE PER ADOT STD DTL T.S. 4-10 2. INSTALL (2) NEW TYPE F SIGNAL HEAD AND (1) NEW TYPE G SIGNAL HEAD 3. FURNISH AND INSTALL NEW EVD 4. INSTALL (1) AUTOSCOPE VISION VDC ON LMA 5. INSTALL (1) NEW M/H W/ COUNTDOWN 6. INSTALL NEW LUMINAIRE & NEW LUMINAIRE MAST ARM 7. FURNISH AND INSTALL NEW ISNS 8. INSTALL (1) NEW BIKE ASSEMBLY (BS)-SEE SHEET TS004 FOR DETAILS	STA 181+86.50, 31.53' LT POWER ROAD
H		PB	-	-	-	-	R10-3 (L)	1. INSTALL NEW "PB" POLE PER ADOT STD DTL T.S. 4-22 2. INSTALL (1) NEW ADA PEDESTRIAN PUSH BUTTONS WITH TOWN LOGO AND SIGNAGE	STA 181+75.32, 33.30' LT POWER ROAD
K		A (16')	-	-	1-XI	1-ES	R10-3C(R) MOD	1. INSTALL NEW "A" POLE (16') PER ADOT STD DTL T.S. 4-1 2. INSTALL (1) NEW EQUESTRIAN ASSEMBLY (ES) MOUNTING HEIGHT 10'. SEE DETAIL TS004 FOR DETAILS. 3. INSTALL (1) NEW R10-3C(R) MOD MOUNTING HEIGHT (7') SEE DETAIL TS004.	STA 181+97.55, 31.53' LT POWER ROAD
I		A (16')	-	-	1-XI	1-ES	R10-3C(L) MOD	1. INSTALL NEW "A" POLE (16') PER ADOT STD DTL T.S. 4-1 2. INSTALL (1) NEW EQUESTRIAN ASSEMBLY (ES) MOUNTING HEIGHT 10'. SEE DETAIL TS004 FOR DETAILS. 3. INSTALL (1) NEW R10-3C(L) MOD MOUNTING HEIGHT (7') SEE DETAIL TS004.	STA 181+97.58, 51.69' RT POWER ROAD
J		R	45'	20'	1-II 2-II 1-VII 1-V 1-XI	1-G 2-F 1-M/H, 1-BS 1-M/H 1-F	R10-3 (L) R10-3 (R)	1. INSTALL NEW "R" POLE PER ADOT STD DTL T.S. 4-11 2. INSTALL (1) NEW TYPE G SIGNAL HEAD 3. FURNISH AND INSTALL NEW EVD 4. INSTALL (3) NEW TYPE F SIGNAL HEADS 5. INSTALL (1) NEW AUTOSCOPE VISION VDC ON LMA 6. INSTALL (1) NEW M/H W/ COUNTDOWN AND (1) NEW M/H W/ COUNTDOWN 7. INSTALL (2) NEW ADA PEDESTRIAN PUSH BUTTONS WITH TOWN LOGO AND SIGNAGE 8. INSTALL NEW LUMINAIRE & NEW LUMINAIRE MAST ARM 9. FURNISH AND INSTALL NEW ISNS 10. INSTALL NEW BIKE ASSEMBLY (BS)-SEE SHEET TS004 FOR DETAILS	STA 181+72.80, 51.76' RT POWER ROAD

NOTE: TYPE G SIGNAL HEADS SHALL HAVE 12" GREEN/YELLOW BI-MODAL ARROW

CONDUCTOR SCHEDULE

		CONDUIT RUN NUMBERS										①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔	㉕	㉖	㉗	㉘	㉙	㉚	㉛	㉜	㉝	㉞	㉟
		CONDUIT SIZE IN INCHES										2 ½	3	3	3	2	3	3	3	2		3	3	2		3		3	3	3	3	3	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	3	2 ½	2		
SIGNAL HEADS	#14, IMSA 19-1, 25 CONDUCTOR		2				2				2										2					2				2																
	#14, IMSA 19-1, 7 CONDUCTOR				2				2					2										1																						
	#14, IMSA 19-1, 4 CONDUCTOR				2	2					2	1																																		
	#8, WHITE THW, COMMON		1		1	1	1				1	1									1		1																							
	#8, GREEN THW		1		1	1	1				1	1									1		1																							
LUMINAIRES (120V)	#10, BLACK THW, RED			1	1					1	1											1																								
	#10, WHITE THW				1	1					1	1										1																								
INTERNALLY ILLUMINATED STREET NAME SIGNS (IISNS)	#10, BLACK THW, BROWN				1	1					1	1										1																								
SERVICE	#6 (120/240)		2																																											
	#10 (120/240)		2																																											
	#12 (120/240)		3																																											
PRE-EMPTION	DETECTOR CABLE		4		1			2		1											1					1				1	1															
OTHER	#8 BARE BOND (ONLY IN EMPTY CONDUIT)																																													
	VIDEO DETECTION CABLE*		4		1			2		1											1					1			1	1			1													

* AUTOSCOPE CABLE, 3 CONDUCTOR, 18AWG, 600V, POLYETHYLENE JACKET, CONDUIT RATE

- VDC = VIDEO DETECTION CAMERA
SMA = SIGNAL MAST ARM
LMA = LUMINAIRE MAST ARM
EVD = EMERGENCY VEHICLE DETECTION
CCTV = DOME PTZ CAMERA
ISNS = INTERNALLY ILLUMINATED STREET NAME SIGN
WRA = WIRELESS RADIO/ANTENNA
EXISTING
AML = APPROVED MATERIAL LIST

Contact Arizona 911 at least two full working days before you begin excavation

Call 611 or click Arizona911.com

17551 CHRISTOPHER E. EGERS
SIGNED 10/03/2025
ARIZONA, U.S.A.

TOWN OF
QUEEN CREEK

POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS

3133 West Frye Road
Chandler, Arizona 85226
Tel. 480.687.6100
www.stantec.com

TRAFFIC SIGNAL EQUIPMENT SHEET

DESIGNED BY: MH

DRAWN BY: BE

CIP PROJ NO. A1405

DRAWING NO. TS008

SHEET 87 OF 133

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PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

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TOWN OF QUEEN CREEK

C.I.P PROJECT NO. A1405

POWER ROAD: CHANDLER HEIGHTS ROAD TO RIGGS ROAD

STREET LIGHTING AND ITS PLANS



GENERAL NOTES

1. ALTERNATIVES SHALL BE PRE-APPROVED BY THE TRANSPORTATION DIRECTOR. APPROVAL OF ALTERNATIVE PRODUCTS SHALL BE ON AN EQUAL BASIS WITH THE PRODUCT SPECIFIED AND SHALL BE SUBMITTED A MINIMUM OF TEN (10) DAYS PRIOR TO BID OPENING. STRUCTURAL CALCULATIONS SHALL BE FURNISHED FOR ALTERNATE PRODUCTS AND CERTIFIED BY A STRUCTURAL ENGINEER, REGISTERED IN THE STATE OF ARIZONA. LUMINAIRES AND LAMPS SHALL MEET OR EXCEED THE PHOTOMETRIC, ELECTRICAL, AND MECHANICAL REQUIREMENTS FOR THE SPECIFIED PRODUCTS.
2. THE SUBMITTAL PACKAGE SHALL CONSIST OF THREE (3) COPIES OF THE SPECIFICATIONS FOR MATERIALS AND EQUIPMENT TO BE FURNISHED AND INSTALLED, AND SHALL BE BOUND IN A FOLDER AND SUBMITTED AT THE TIME OF PERMIT APPLICATION.
3. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL LICENSING REQUIREMENTS SET FORTH BY THE STATE REGISTRAR OF CONTRACTORS' OFFICE TO PERFORM WORK RELATING TO STREETLIGHT INSTALLATION IN THE TOWN RIGHT-OF-WAY.
4. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO THE INSTALLATION OF STREET LIGHTING.

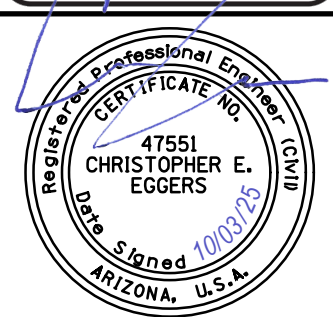
WARRANTY:

THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE ENGINEERING MANAGER, AGAINST IMPERFECT WORKMANSHIP, FAILURE, MALFUNCTION OF MATERIALS AND/OR EQUIPMENT DUE TO FAULTY OR IMPERFECT WORKMANSHIP. THIS GUARANTEE IS TO BE IN WRITING TO THE TOWN AT THE TIME OF ISSUING FINAL ACCEPTANCE. WORK FOUND TO BE DEFECTIVE WITHIN THE WARRANTY PERIOD SHALL BE REPLACED WITHOUT COST TO THE TOWN.

LIGHTING FIXTURE SCHEDULE						
SYMBOL	TYPE	DESCRIPTION	FIXTURE TYPE	VOLTS	WATTAGE	MANUFACTURER CATALOG No.
	Q1	EVOLVE LED STREET LAMP FOR USE WITH 12500 LUMENS PACKAGE, BRONZE FINISH, TOOL-LESS ENTRY, 10kA SURGE PROTECTION.	LED	120-277V	125	GE LIGHTING ERLH-0-13-03-30-A-DKBZ-GLRX--(LABEL) OR APPROVED EQUAL.
						POLE PER QUEEN CREEK ARTERIAL STREET LIGHTING STANDARDS. LIGHT FIXTURE SHALL BE LABELED PER QUEEN CREEK STANDARDS.

SHEET INDEX

SHEET NUMBER	SHEET NAME
SL001	STREET LIGHT PLANS COVER SHEET
SL002	STREET LIGHT PLANS
SL003	STREET LIGHT PLANS
SL004	STREET LIGHT PLANS
SL005	STREET LIGHT PLANS
SL006	STREET LIGHT DETAILS
SL007	STREET LIGHT DETAILS
SL008	STREET LIGHT DETAILS
SL009	ITS DETAIL
SL010	ITS DETAIL



TOWN OF
QUEEN CREEK

POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS

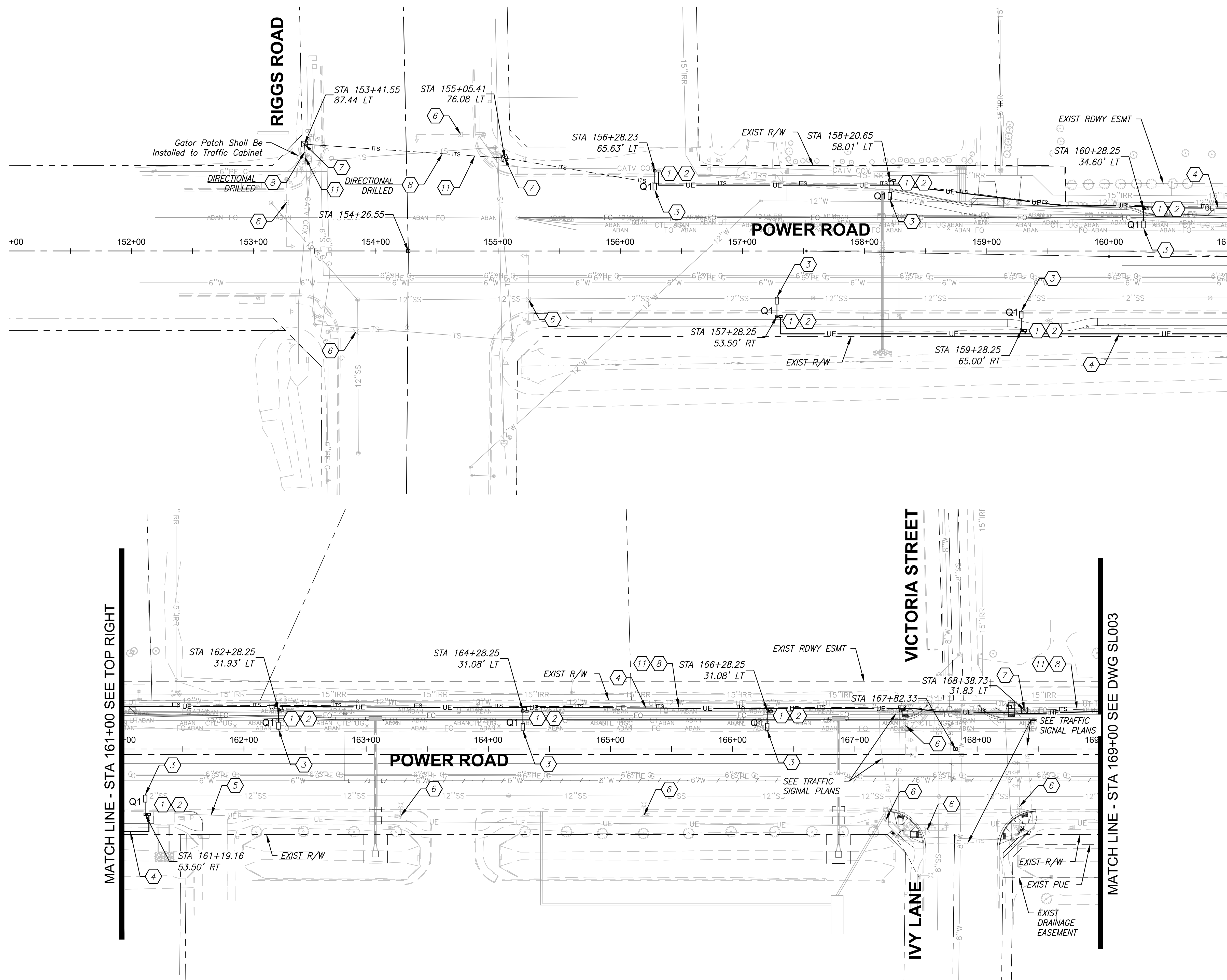


3133 West Frye Road
Chandler, Arizona 85226
Tel. 480.687.6100
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STREET LIGHT PLANS COVER SHEET










DESIGNED BY	MH	CIP PROJ NO. A1405	
DRAWN BY	BE		
DRAWING NO.		SL001	SHEET 88 OF 133

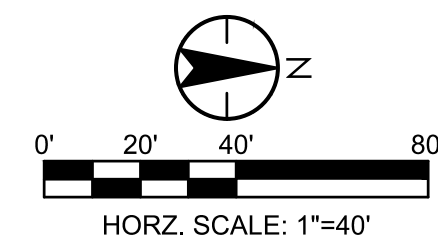
PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

 CONSTRUCTION NOTES

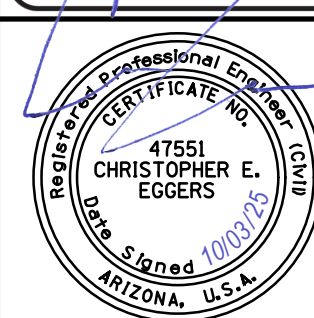
- 1 Provide SRP Pull Box Next to Pole per Pull Box Detail on SRP Plans. Refer to Drawing No. SL006 for Additional Information Prior to Rough-in.
- 2 Provide 1" Schedule 40 PVC Conduit from Street Light Pull Box to Pole Hand Hole.
- 3 Provide LED Street Light Luminaire and Pole with 32'0" Mounting Height and a Single 8' X 12'6" Mast Arm. See Drawing No. SL007 and SL008 for Installation Details. Light Fixture and Pole Shall Be Installed per Town of Queen Creek Arterial Lighting Requirements. See Drawing No. SL001 for Fixture Type and Options.
- 4 Provide Equipment, Pull Boxes, and Conduit Routing for Street Lighting. Refer to SRP Drawings for the Contractor's Exact Scope. Coordinate with SRP Drawings for Exact Underground Electrical Conduit Routing. Conduit in this Drawing is Shown for Diagrammatical Purposes only.
- 5 Existing Street Light Conduit.
- 6 Existing Street Light to Remain.
- 7 Provide and Install New #9 ITS Pull Box Per TOQC Standard Detail ITS-03 And ITS-04, See Drawing No. SL009.
- 8 Provide 2 - 1 1/4" Quad Duct (8 Conduits) for ITS Only. See TOQC Standard Detail ITS-06 on Drawing No. SL010 for Trenching Detail. ITS Conduit Shall be Joint Trenched with SRP Street Lighting Conduit.
- 11 Install 2-144 Single Mode Fiber Optic (SMFO) Cable.

LEGEND

- | | |
|---|--------------------------------|
|  | NEW STREET LIGHT |
|  | EXISTING STREET LIGHT |
|  | EXISTING STREET LIGHT PULL BOX |
|  | NEW STREET LIGHT PULL BOX |
|  | NEW STREET LIGHT CONDUIT RUN |
|  | NEW UTILITY POWER CONDUIT RUN |
|  | NEW ITS CONDUIT RUN |
|  | NEW #9 ITS PULL BOX |
|  | NEW #7 ITS PULL BOX |



TOWN OF
QUEEN CREEK



POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS



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STREET LIGHT PLANS

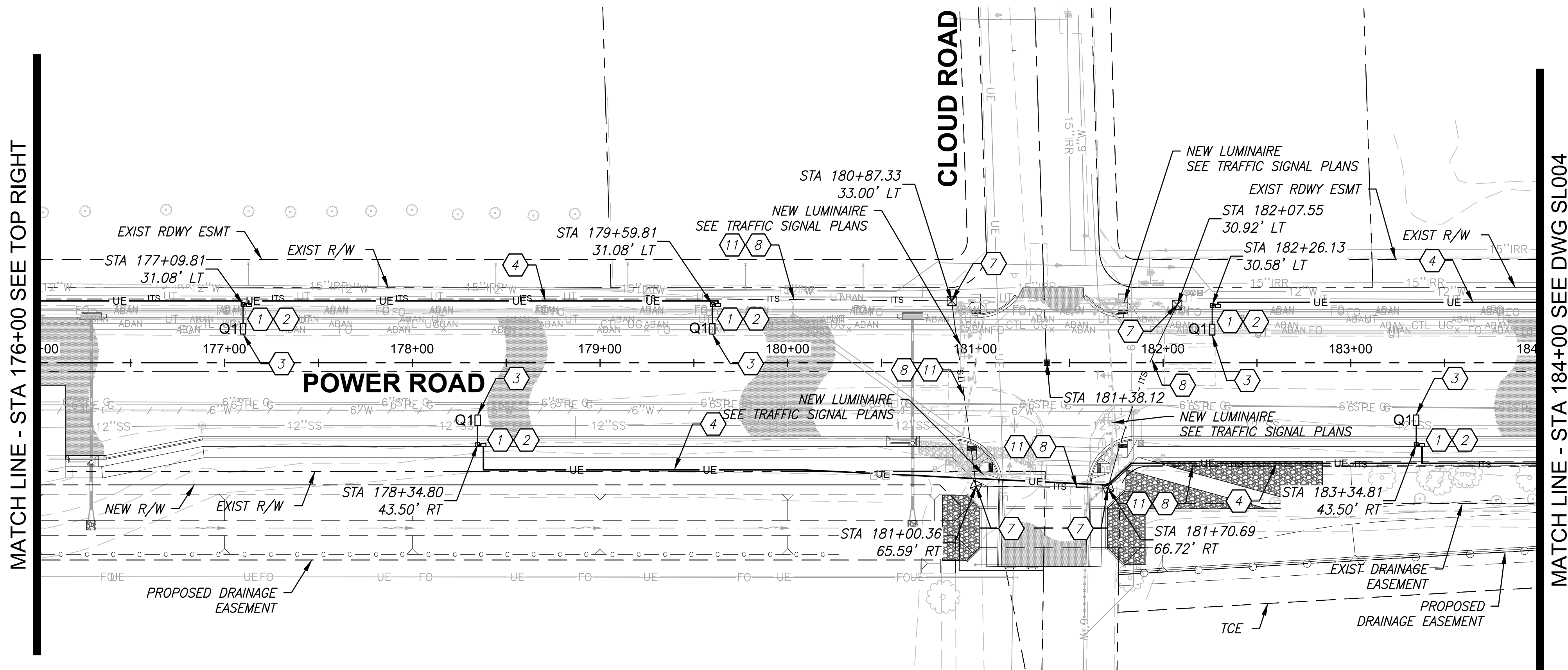
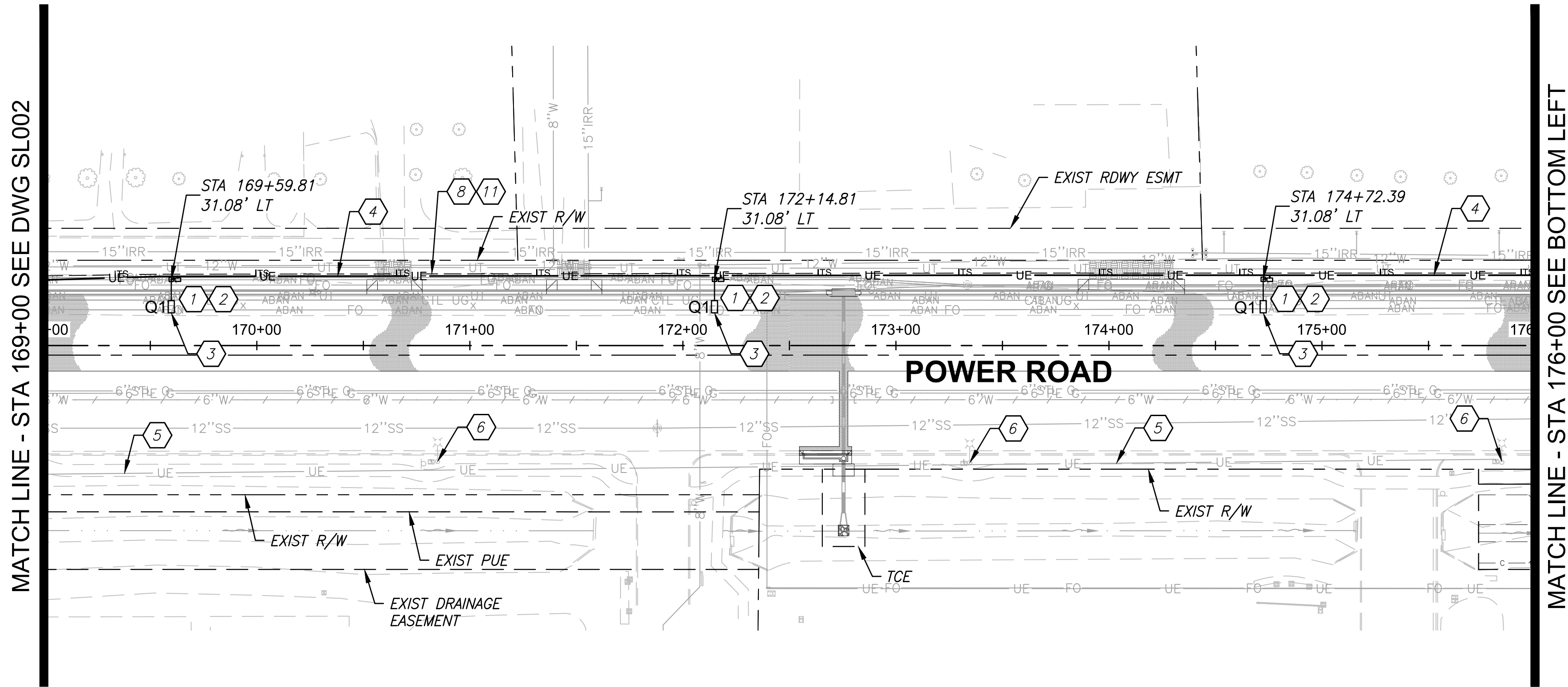
DESIGNED BY	MH
DRAWN BY	BE

CIP PROJ NO. A1405

DRAWING NO. SI 002

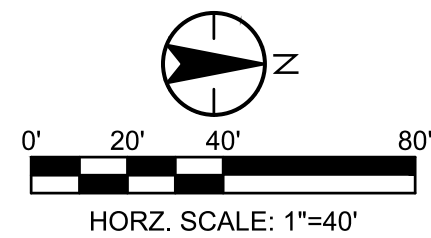
SHEET 89 OF 133

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- CONSTRUCTION NOTES**
- 1 Provide SRP Pull Box Next to Pole per Pull Box Deal on SRP Plans. Refer to Drawing No. SL006 for Additional Information Prior to Rough-In.
 - 2 Provide 1" Schedule 40 PVC Conduit from Street Light Pull Box to Pole Hand Hole.
 - 3 Provide LED Street Light Luminaire and Pole with 32'0" Mounting Height and a Single 8' X 12'6" Mast Arm. See Drawing No. SL007 and SL008 for Installation Details. Light Fixture and Pole Shall Be Installed per Town of Queen Creek Arterial Lighting Requirements. See Drawing No. SL001 for Fixture Type and Options.
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 - 8 Provide 2 - 1 1/4" Quad Duct (8 Conduits) for ITS Only. See TOQC Standard Detail ITS-06 on Drawing No. SL010 for Trenching Detail. ITS Conduit Shall be Joint Trenched with SRP Street Lighting Conduit.
 - 11 Install 2-144 Single Mode Fiber Optic (SMFO) Cable.

- LEGEND**
- NEW STREET LIGHT
 - EXISTING STREET LIGHT
 - EXISTING STREET LIGHT PULL BOX
 - NEW STREET LIGHT PULL BOX
 - NEW STREET LIGHT CONDUIT RUN
 - NEW UTILITY POWER CONDUIT RUN
 - NEW ITS CONDUIT RUN
 - NEW #9 ITS PULL BOX
 - NEW #7 ITS PULL BOX

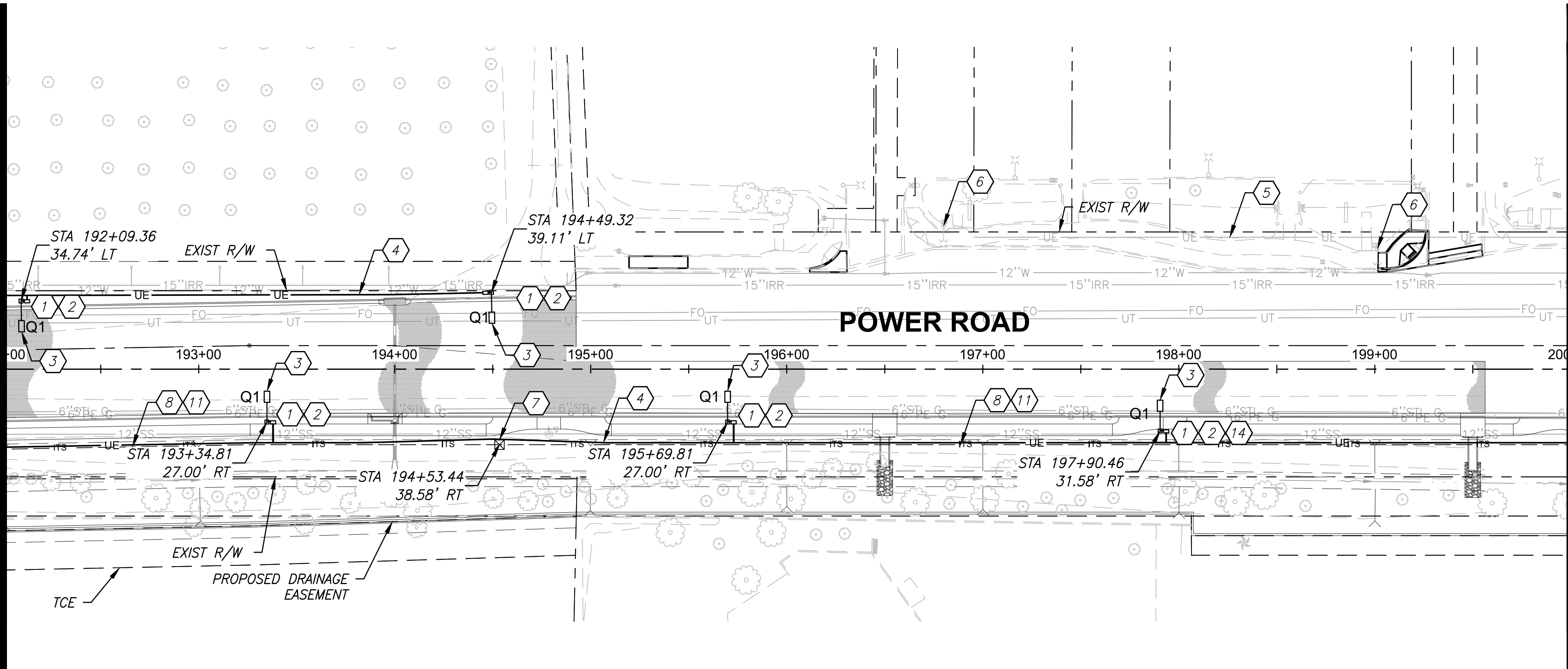


 Contact Arizona 811 at least two full working days before you begin excavation Call 811 or click Arizona811.com	 TOWN OF QUEEN CREEK
 CHRISTOPHER E. EGGERS 17551 ARIZONA, U.S.A.	POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY AND DRAINAGE IMPROVEMENTS 3133 West Frye Road Chandler, Arizona 85226 Tel. 480.687.6100 www.stantec.com
STREET LIGHT PLANS	
DESIGNED BY: MH	CIP PROJ NO. A1405
DRAWN BY: BE	
DRAWING NO. SL003	SHEET 90 OF 133

PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

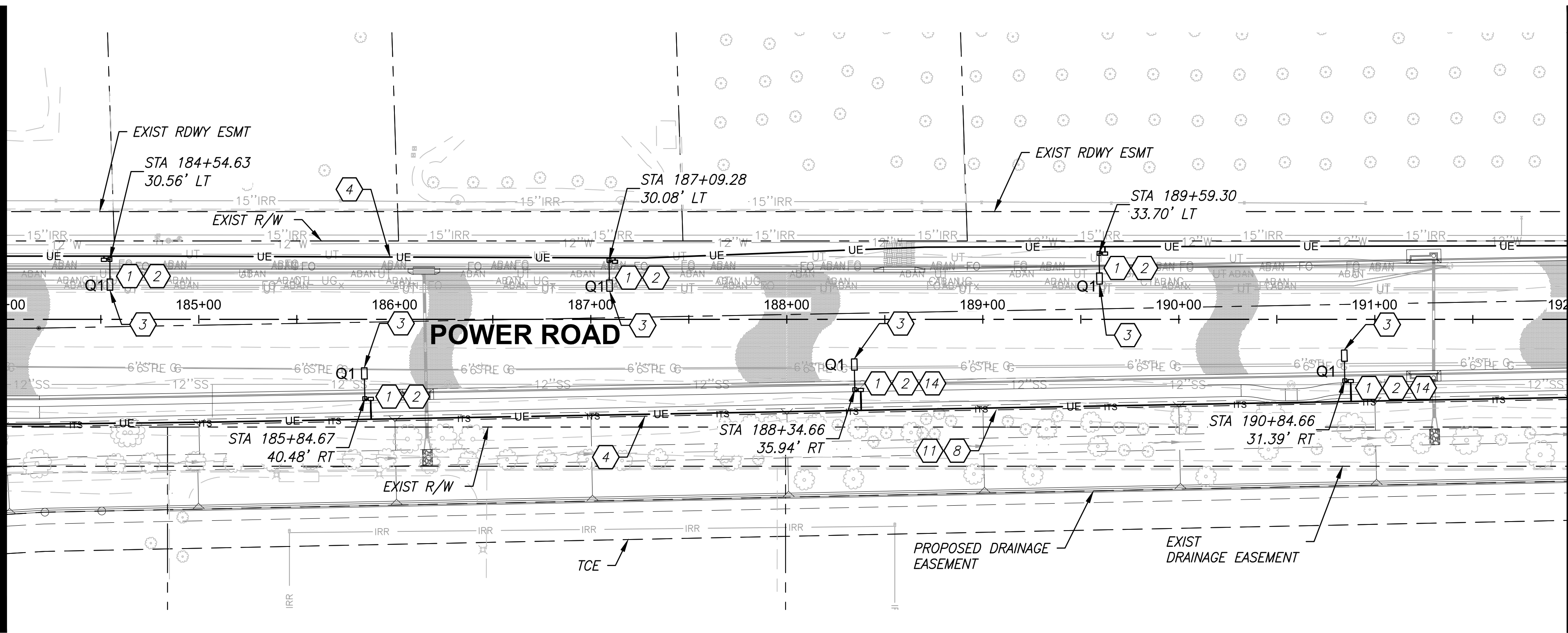
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MATCH LINE - STA 192+00 SEE TOP RIGHT



MATCH LINE - STA 200+00 SEE DWG SL005

MATCH LINE - STA 184+00 SEE DWG SL003



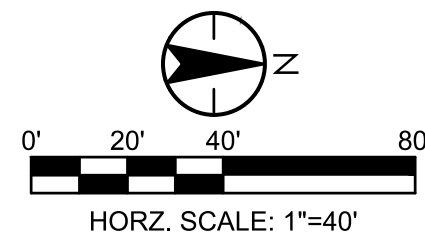
MATCH LINE - STA 192+00 SEE BOTTOM LEFT

CONSTRUCTION NOTES

- 1 Provide SRP Pull Box Next to Pole per Pull Box Deal on SRP Plans. Refer to Drawing No. SL006 for Additional Information Prior to Rough-In.
- 2 Provide 1" Schedule 40 PVC Conduit from Street Light Pull Box to Pole Hand Hole.
- 3 Provide LED Street Light Luminaire and Pole with 32'0" Mounting Height and a Single 8' X 12'6" Mast Arm. See Drawing No. SL007 and SL008 for Installation Details. Light Fixture and Pole Shall Be Installed per Town of Queen Creek Arterial Lighting Requirements. See Drawing No. SL001 for Fixture Type and Options.
- 4 Provide Equipment, Pull Boxes, and Conduit Routing for Street Lighting. Refer to SRP Drawings for the Contractor's Exact Scope. Coordinate with SRP Drawings for Exact Underground Electrical Conduit Routing. Conduit in this Drawing is Shown for Diagrammatical Purposes only.
- 5 Existing Street Light Conduit.
- 6 Existing Street Light to Remain.
- 7 Provide and Install New #9 ITS Pull Box Per TOQC Standard Detail ITS-03 And ITS-04, See Drawing No. SL009.
- 8 Provide 2 - 1 1/4" Quad Duct (8 Conduits) for ITS Only. See TOQC Standard Detail ITS-06 on Drawing No. SL010 for Trenching Detail. ITS Conduit Shall be Joint Trenched with SRP Street Lighting Conduit.
- 11 Install 2-144 Single Mode Fiber Optic (SMFO) Cable.
- 14 Provide Spread Footing for Street Light in Lieu of Typical Street Light Footing. See Drawing No. SL008.

LEGEND

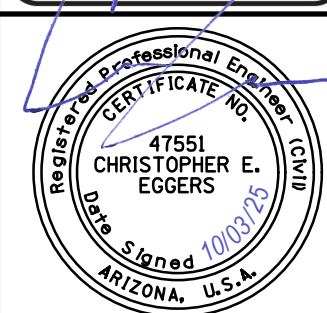
- NEW STREET LIGHT
- EXISTING STREET LIGHT
- EXISTING STREET LIGHT PULL BOX
- NEW STREET LIGHT PULL BOX
- NEW STREET LIGHT CONDUIT RUN
- NEW UTILITY POWER CONDUIT RUN
- NEW ITS CONDUIT RUN
- NEW #9 ITS PULL BOX
- NEW #7 ITS PULL BOX



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**TOWN OF
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**POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS**



3133 West Frye Road
Chandler, Arizona 85226
Tel. 480.487.6100
www.stantec.com

STREET LIGHT PLANS

DESIGNED BY: MH
DRAWN BY: BE

CIP PROJ NO. A1405

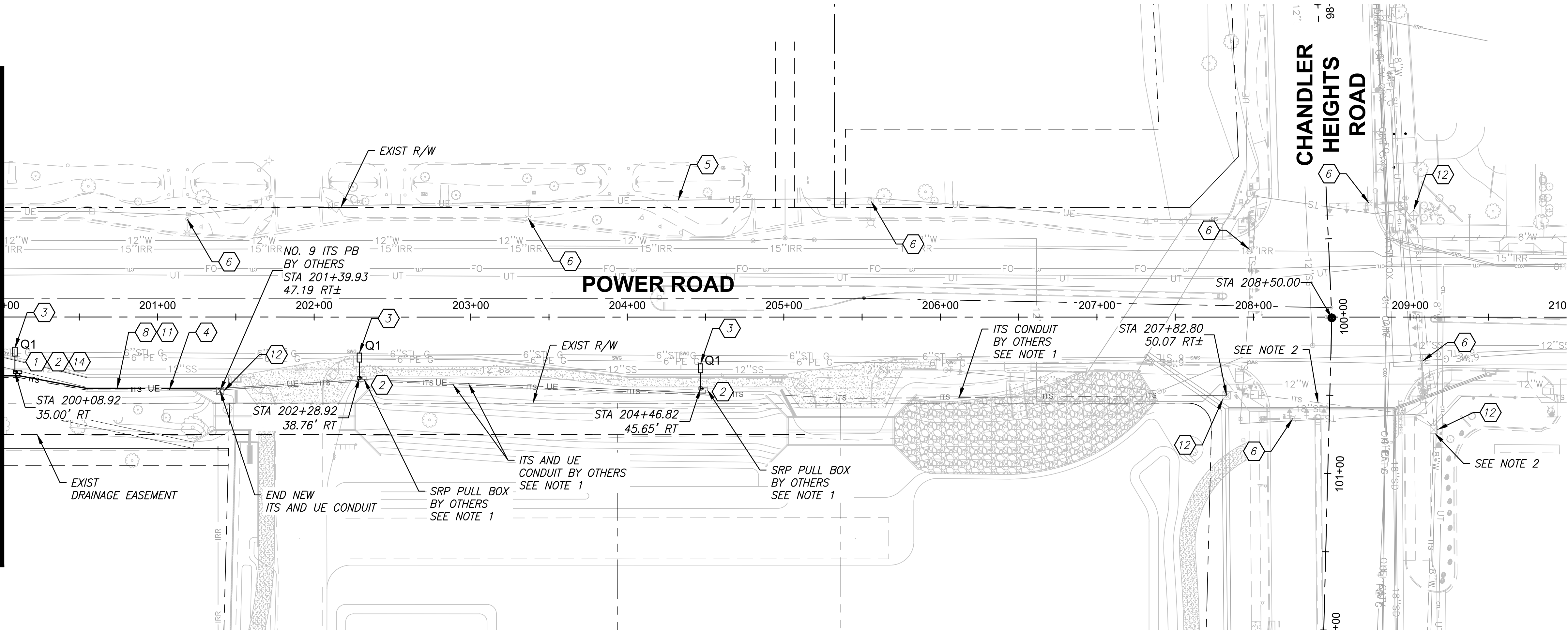
DRAWING NO. SL004

SHEET 91 OF 133

PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

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MATCH LINE - STA 200+00 SEE DWG SL004



CONSTRUCTION NOTES

1

Provide SRP Pull Box Next to Pole per Pull Box Deal on SRP Plans. Refer to Drawing No. SL006 for Additional Information Prior to Rough-In.

2

Provide 1" Schedule 40 PVC Conduit from Street Light Pull Box to Pole Hand Hole.

3

Provide LED Street Light Luminaire and Pole with 32'0" Mounting Height and a Single 8' X 12'6" Mast Arm. See Drawing No. SL007 and SL008 for Installation Details. Light Fixture and Pole Shall Be Installed per Town of Queen Creek Arterial Lighting Requirements. See Drawing No. SL001 for Fixture Type and Options.

4

Provide Equipment, Pull Boxes, and Conduit Routing for Street Lighting. Refer to SRP Drawings for the Contractor's Exact Scope. Coordinate with SRP Drawings for Exact Underground Electrical Conduit Routing. Conduit in this Drawing is Shown for Diagrammatical Purposes only.

5

Existing Street Light Conduit.

6

Existing Street Light to Remain.

8

Provide 2 - 1 1/4" Quad Duct (8 Conduits) for ITS Only. See TOQC Standard Detail ITS-06 on Drawing No. SL010 for Trenching Detail. ITS Conduit Shall be Joint Trenched with SRP Street Lighting Conduit.

11

Install 2-144 Single Mode Fiber Optic (SMFO) Cable.

12

Existing ITS Pull Box.

14

Provide Spread Footing for Street Light in Lieu of Typical Street Light Footing. See Drawing No. SL008.

NOTES:

1.

Proposed improvements "BY OTHERS" shown for reference only, refer to Town of Queen Creek Project Number 6862 - "SEC Power Road & Chandler Heights Road", for details.

2.

2-144 Single Mode Fiber Optic (SMFO) Cable to be installed to existing #9 PB on the north east corner of Power Road and Chandler Heights Road.

LEGEND

NEW STREET LIGHT

EXISTING STREET LIGHT

EXISTING STREET LIGHT PULL BOX

NEW STREET LIGHT PULL BOX

NEW STREET LIGHT CONDUIT RUN

NEW UTILITY POWER CONDUIT RUN

NEW ITS CONDUIT RUN

NEW #9 ITS PULL BOX

NEW #7 ITS PULL BOX

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STREET LIGHT PLANS

DESIGNED BY

MH

DRAWN BY

BE


CIP PROJ NO. A1405

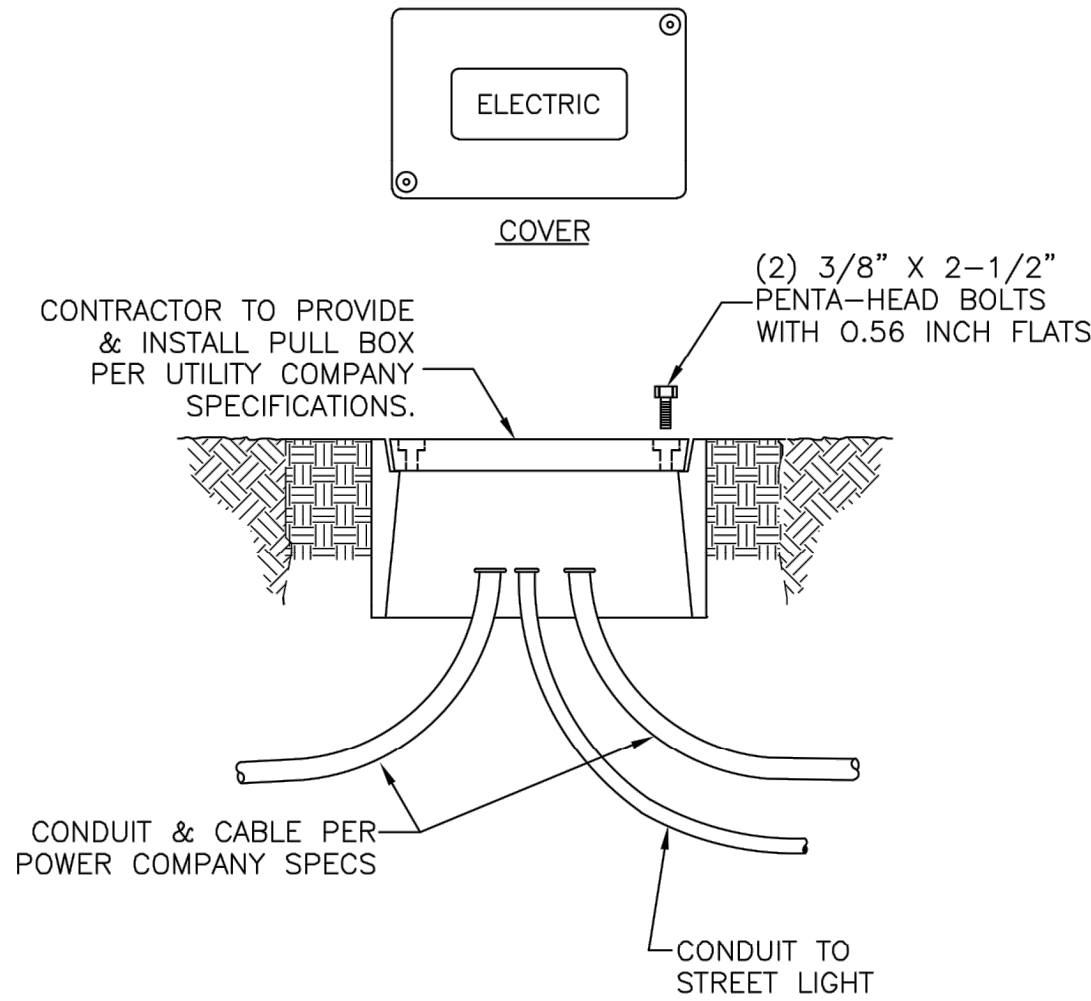

DRAWING NO.





SL005

SHEET 92 OF 133

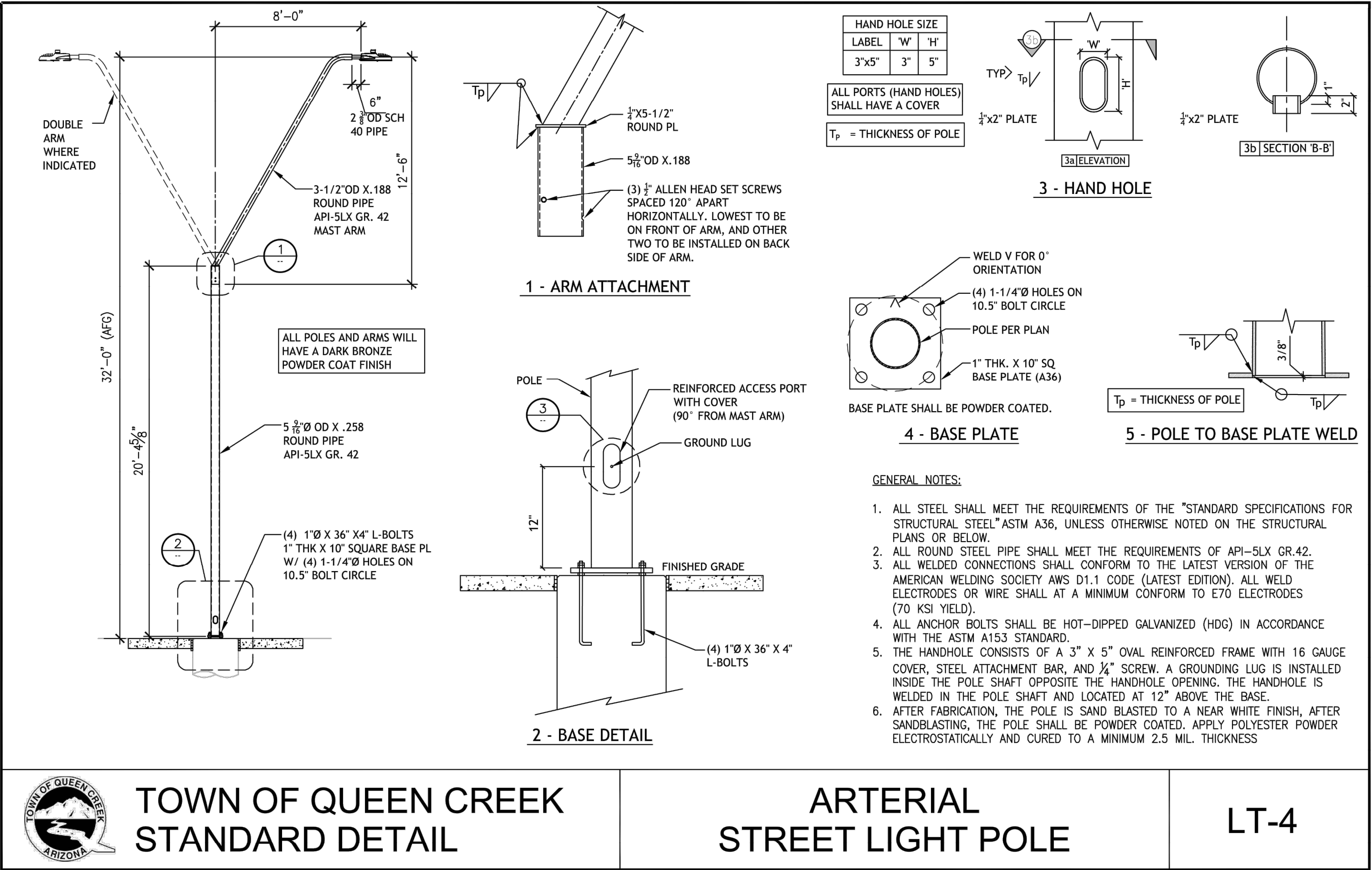
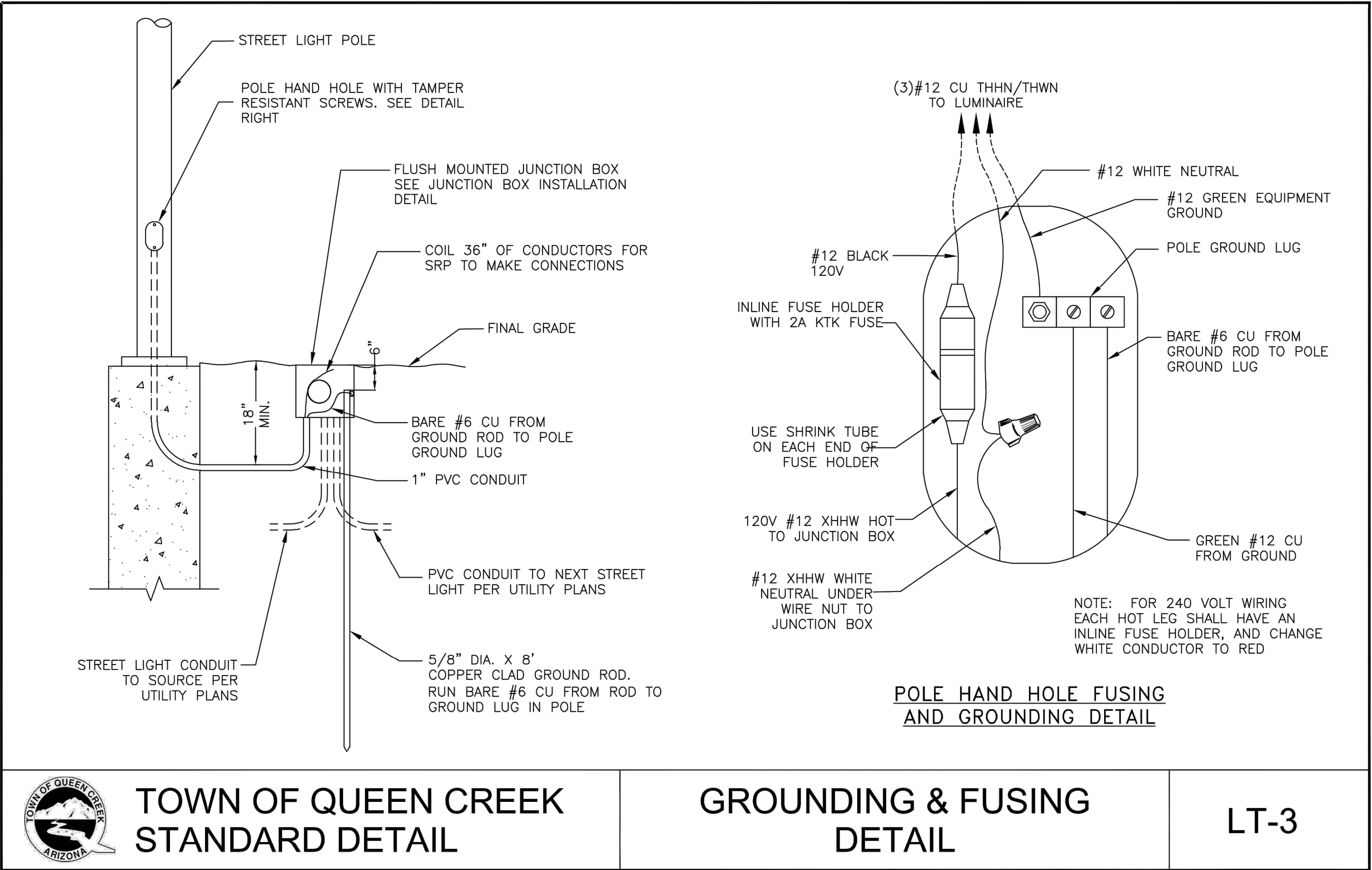
PROJECT NO. A1405, POWER ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

<p>1.01 GENERAL NOTES: THE FOLLOWING INFORMATION IS PROVIDED TO EMPHASIZE CRITICAL WORK AND IS INTENDED TO SUPPLEMENT THE SPECIFICATIONS. SHOULD THERE BE A CONFLICT WITH THE SPECIFICATIONS, THIS DOCUMENT SHALL TAKE PRECEDENCE.</p> <p>THE CONTRACTOR SHALL COMPLY WITH STATE AND TOWN STATUTES, AND MANUFACTURER'S RECOMMENDATIONS.</p> <p>EQUIPMENT SUBMITTALS SHALL BE NEATLY GROUPED AND ORGANIZED. PERTINENT INFORMATION SHALL BE HIGHLIGHTED, AND THE SPECIFIC PRODUCT SHALL BE IDENTIFIED. ALL SUBMITTALS SHALL BE COMPLETE, AND PRESENTED IN ONE ELECTRONIC PDF PACKAGE. THE SUBMITTAL SHALL INCLUDE A COMPLETE LIST OF THE EQUIPMENT AND MATERIALS, INCLUDING THE MANUFACTURER'S NAME, PRODUCT SPECIFICATION, & CATALOG NUMBERS.</p> <p>PRIOR TO SUBMITTING A PROPOSAL, THE BIDDER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT THE CONSTRUCTION SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THE CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION IN THE BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.</p> <p>PRIOR TO ORDERING ANY MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHOULD VERIFY DIMENSIONS AT THE SITE. IMMEDIATELY REPORT DIFFERENCES TO THE ENGINEERING MGR. AND SHOULD NOT PROCEED WITH WORK UNTIL THE ENGINEERING MGR. RENDERS A DECISION. NO EXTRA CHARGES OR COMPENSATION WILL BE ALLOWED FOR DIFFERENCES IN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE DRAWINGS.</p> <p>1.01 GENERAL: THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL LICENSING REQUIREMENTS SET FORTH BY THE STATE REGISTRAR OF CONTRACTORS OFFICE TO PERFORM WORK RELATING TO STREET LIGHT INSTALLATION IN THE TOWN RIGHT-OF-WAY.</p> <p>ONE PROJECT UNDERGROUND UTILITIES (RIGHT OF WAY) PERMIT AND ONE STREETLIGHT PERMIT FOR EACH STREET LIGHT POLE SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.</p> <p>THE OWNER OR CONTRACTOR SHALL PROVIDE THE TOWN WITH THE SRP JOB NUMBER, SRP CONTACT NAME, AND ADDRESS THAT THE LETTER OF AUTHORIZATION SHALL REFERENCE.</p> <p>1.02 WORKING / "AS BUILT" PLANS: ACCEPTANCE OF THE COMPLETED IMPROVEMENTS WILL NOT BE GIVEN UNTIL 4 MIL PHOTO MYLAR REPRODUCIBLE "AS BUILT" PLANS HAVE BEEN SUBMITTED TO AND APPROVED BY THE TOWN ENGINEER.</p> <p>1.03 LIGHT POLES: FINAL STREET LIGHT LOCATIONS SHALL BE COORDINATED WITH TOWN ENGINEERING INSPECTOR. LIGHT POLES SHALL BE INSTALLED PLUMB, BE ADJUSTED TO PROVIDE PROPER ALIGNMENT TO THE ROADWAY BEING LIGHTED AND BE PROPERLY GROUNDED WHEN THE INSTALLATION IS COMPLETED.</p> <p>1.04 FOUNDATION: THE HOLE FOR THE FOUNDATION SHALL BE AUGURED OR HAND DUG, ANY EXCEPTION SHALL BE PRE-APPROVED BY THE TOWN'S STREETLIGHT MANAGEMENT SECTION. ANCHOR BOLTS INSTALLED IN FOUNDATIONS SHALL BE PROVIDED WITH DOUBLE NUTS AND WASHERS. ANCHOR BOLTS WILL BE SET IN PLACE AND SUPPORTED BY THE USE OF A TEMPLATE (SUPPLIED BY THE CONTRACTOR) TO MAINTAIN THE TRUE BOLT CIRCLE BEFORE THE CONCRETE IS POURED.</p> <p>STREETLIGHT MANAGEMENT SHALL INSPECT THE WORK BEFORE THE CONCRETE IS POURED AND MUST BE CONTACTED 48 HOURS BEFORE THE SCHEDULED POURING. THE TOP OF THE FOUNDATION SHALL BE FLUSH WITH TOP OF SIDEWALK, TROWEL FINISHED AND LEVEL. SURPLUS EXCAVATION SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.</p> <p>1.05 LUMINAIRES: LUMINAIRES SHALL BE INSTALLED LEVEL AND INCLUDE A LAMP AND PHOTOCELL. CONTRACTOR SHALL ASSURE THAT THE LUMINAIRES SHALL BE FREE OF DUST, DIRT OR ANYTHING THAT WOULD IMPAIR THE OUTPUT OF THE LIGHT BEFORE</p>	<p>LEAVING THE SITE. LUMINAIRES FURNISHED WITH MULTI-TAP BALLASTS SHALL BE REWIRED OR RECONNECTED TO MATCH THE VOLTAGE SUPPLIED BY THE ELECTRIC UTILITY COMPANY.</p> <p>1.06 WIRING: WIRING SHALL BE INSTALLED PER UTILITY STANDARDS.</p> <p>1.07 GROUNDING: EACH POLE SHALL HAVE A 8' X 5/8" COPPER CLAD GROUND ROD DRIVEN BENEATH PULL BOX. INSTALL #6 BARE COPPER LEAD FROM THE GROUND ROD IN PULL BOX TO LANDING LUG IN STREET LIGHT POLE HAND HOLE.</p> <p>1.08 PULL BOXES: EXCAVATION FOR PULL BOXES AND MATERIAL SPECIFICATION SHALL BE PER THE ELECTRIC UTILITY COMPANY STANDARDS.</p> <p>1.09 TRENCH: TRENCH SHALL BE INSTALLED PER THE UTILITY COMPANY PLANS AND STANDARDS. THE USE OF A COMMON ELECTRIC UTILITY COMPANY TRENCH IS PERMITTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANY FOR COORDINATION OF TRENCHING AND THE INSTALLATION OF CONDUIT.</p> <p>1.10 CONDUIT: MAINLINE CONDUIT SHALL BE PER UTILITY COMPANY STANDARDS. CONDUIT FROM PULL BOX TO POLE SHALL BE 1 INCH PVC CONDUIT OR EQUAL. CONDUIT MUST BE UL RATED AND SUITABLE FOR UNDERGROUND USE.</p> <p>1.11 CONNECTIONS: CONNECTIONS SHALL BE PER UTILITY STANDARDS.</p> <p>1.12 LIGHT POLE IDENTIFICATION: THE CONTRACTOR SHALL FURNISH AND INSTALL A NUMBER ON EACH LIGHT POLE. STREET LIGHT POLE IDENTIFICATION AND SPECIFICATIONS WILL BE PROVIDED BY THE TOWN.</p> <p>1.13 RESTORATION: IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE ALL PROPERTY, LANDSCAPING, PAVING AND DRIVEWAYS THAT ARE DISTURBED DURING STREET LIGHT CONSTRUCTION TO THEIR ORIGINAL CONDITION IN CONFORMANCE WITH "MAG" SPECIFICATION SECTION 107.9.</p> <p>1.14 PERFORMANCE TEST: PRIOR TO ACCEPTANCE, THE DEVELOPER SHALL ENERGIZE AND OPERATE THE ENTIRE ROADWAY LIGHTING SYSTEM, FROM SUNSET TO SUNRISE FOR TWO CONSECUTIVE DAYS WITHOUT INTERRUPTION OR FAILURE. IF A LUMINAIRE SHOULD FAIL, IT SHALL BE IMMEDIATELY REPLACED.</p> <p>1.15 WARRANTY: THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE ENGINEERING MANAGER, AGAINST IMPERFECT WORKMANSHIP, FAILURE, MALFUNCTION OF MATERIALS AND/OR EQUIPMENT DUE TO FAULTY OR IMPERFECT WORKMANSHIP. THIS GUARANTEE IS TO BE IN WRITING TO THE TOWN AT THE TIME OF ISSUING FINAL ACCEPTANCE. WORK FOUND TO BE DEFECTIVE WITHIN THE WARRANTY PERIOD SHALL BE REPLACED WITHOUT COST TO THE TOWN.</p>	
<div><div></div><div><div>TOWN OF QUEEN CREEK</div><div>STANDARD DETAIL</div></div></div>	<div><div>STREET LIGHT</div><div>GENERAL NOTES</div></div>	<div><div>LT-1</div></div>

 <p>Diagram illustrating the pull box installation details. The diagram shows a cross-section of the ground with a pull box installed. A cover is shown above the box, secured with two 3/8" x 2-1/2" penta-head bolts with 0.56 inch flats. Conduits and cables are shown entering and exiting the box, labeled as 'CONDUIT & CABLE PER POWER COMPANY SPECS' and 'CONDUIT TO STREET LIGHT'. A note indicates that the contractor should provide and install the pull box per utility company specifications.</p>	<p><u>NOTES:</u></p> <ol style="list-style-type: none">1. PULL BOXES ARE TO BE INSTALLED FLUSH WITH SIDEWALK. IF NO SIDEWALK, SET 1" ABOVE TOP OF CURB.2. AFTER PULL BOX IS SET, BACKFILL WITH EXCAVATED MATERIAL AND THOROUGHLY COMPACT.3. WHERE PULL BOXES ARE INSTALLED IN CONCRETE AREAS, 1/2" PRE-MOLDED EXPANSION JOINT SHALL BE INSTALLED AROUND PULL BOX.4. CONDUCTORS SHALL HAVE A MINIMUM OF 36" SLACK FROM CONDUIT AND BELL.5. PULL BOXES SHALL BE INSTALLED OUTSIDE OF CONCRETED AREAS, PEDESTRIAN TRAILS, AND VEHICULAR TRAFFIC AREAS.	
<div><div></div><div><div>TOWN OF QUEEN CREEK</div><div>STANDARD DETAIL</div></div></div>	<div><div>STREET LIGHT</div><div>PULL BOX</div></div>	<div><div>LT-2</div></div>

<div><div><p>Contact Arizona 811 at least two full working days before you begin excavation Call 811 or click Arizona811.com</p></div><div><div><p>Professional Engineer No. 17551 CHRISTOPHER E. EGGERS Signed 10/03/25 ARIZONA, U.S.A.</p></div></div></div>	<div><div><div>TOWN OF QUEEN CREEK</div></div><div><div>POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY AND DRAINAGE IMPROVEMENTS</div><div><div><div>3133 West Frye Road Chandler, Arizona 85226 Tel. 480.687.6100 www.stantec.com</div></div></div></div></div>
<div>STREET LIGHT DETAILS</div>	
<div>DESIGNED BY MH</div>	<div>CIP PROJ NO. A1405</div>
<div>DRAWN BY BE</div>	
<div>DRAWING NO. SL006</div>	<div>SHEET 93 OF 133</div>

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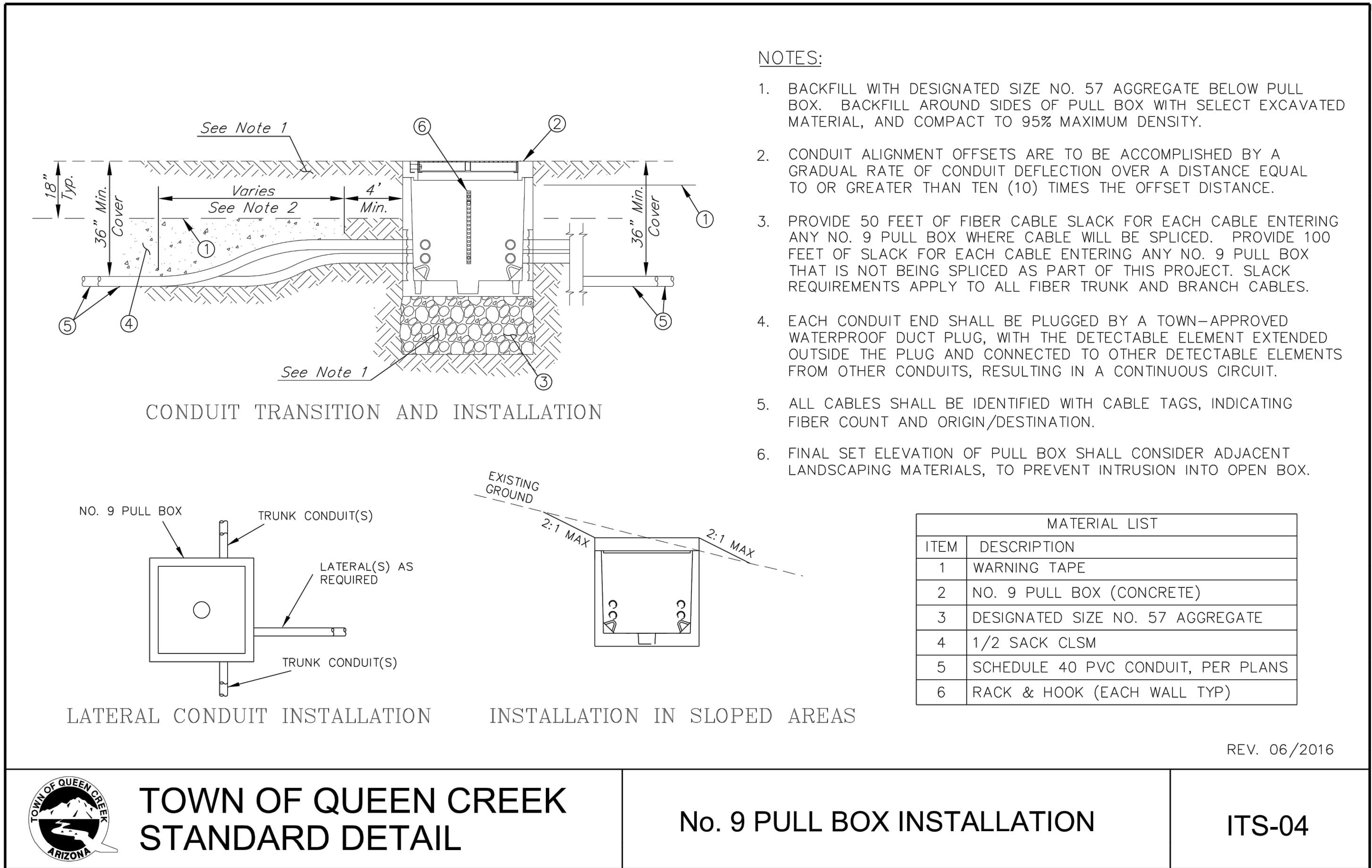
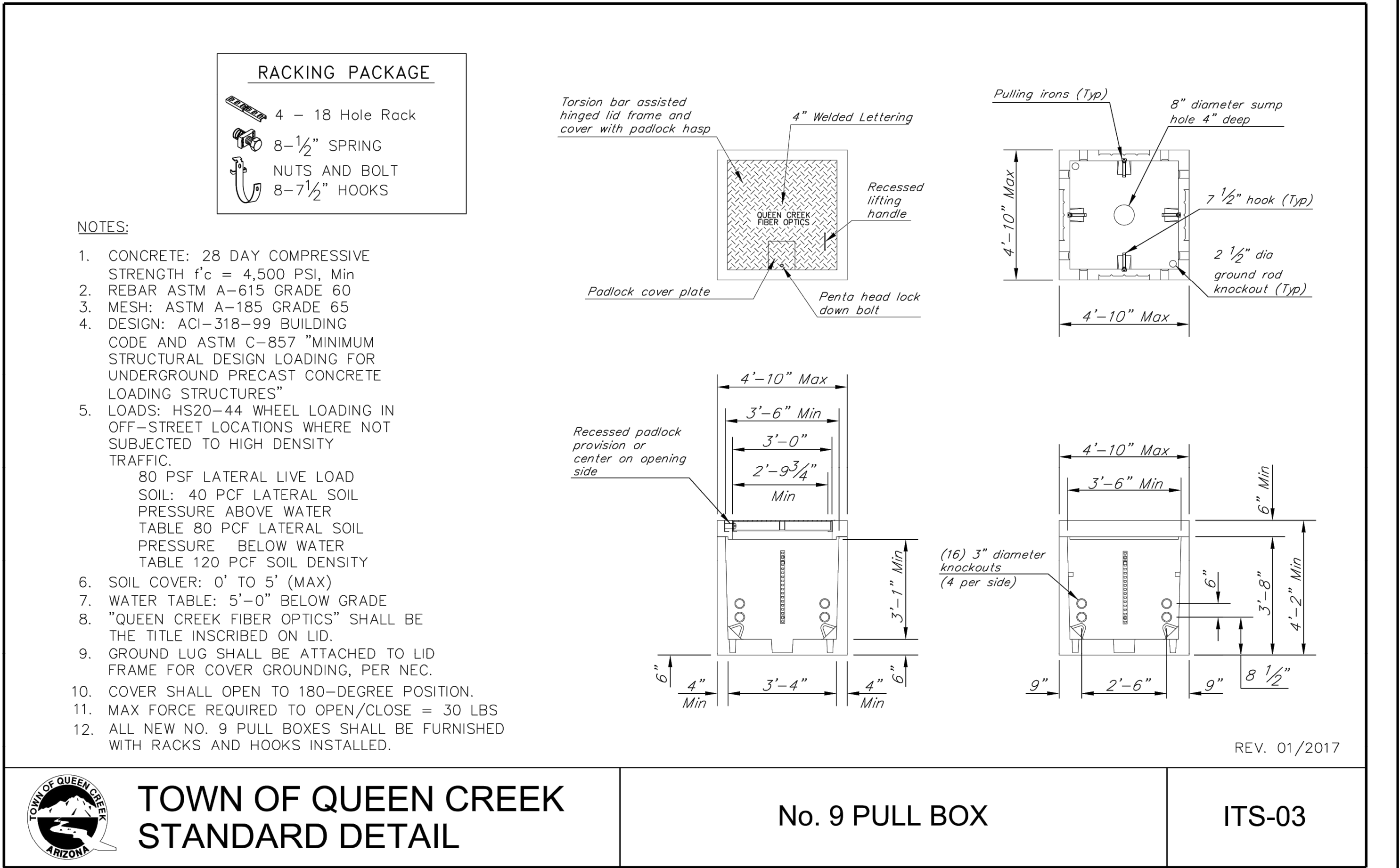
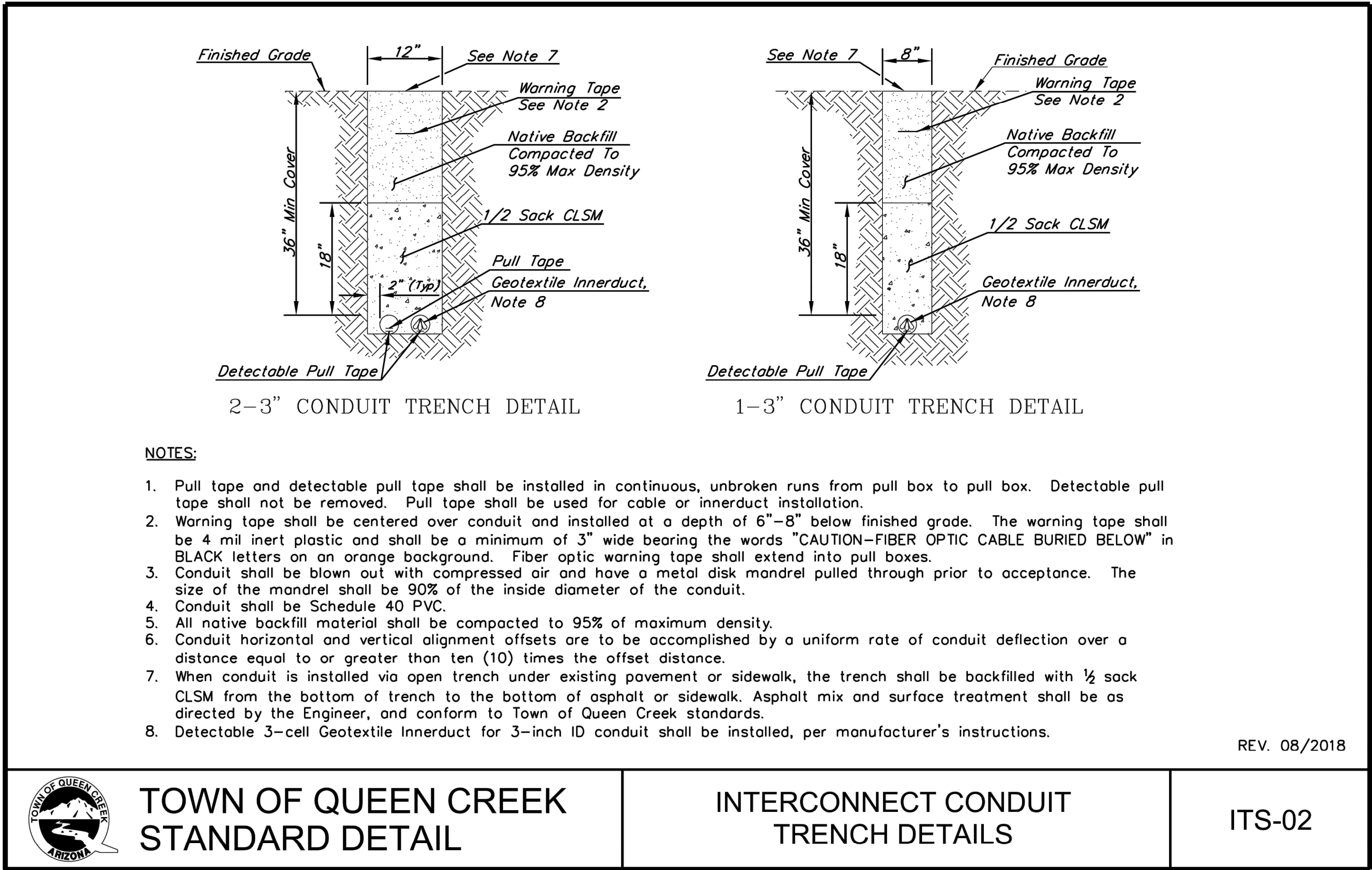
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STREET LIGHT DETAILS

DESIGNED BY	MH	CIP PROJ NO. A1405
DRAWN BY	BE	
DRAWING NO.	SL007	SHEET 94 OF 133

PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

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TOWN OF
QUEEN CREEK

Professional Engineer
No. 17551
CHRISTOPHER E. EGERS
Signed 10/03/25
ARIZONA, U.S.A.

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ITS DETAILS

DESIGNED BY	MH	CIP PROJ NO. A1405
DRAWN BY	BE	

DRAWING NO.	SL009	SHEET 96 OF 133
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PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

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GENERAL IRRIGATION NOTES:

1.

THE IRRIGATION SYSTEM HAS BEEN DESIGNED WITH A RESIDUAL WATER PRESSURE OF 50 PSI AT POINT OF CONNECTION. CONTRACTOR SHALL SITE VERIFY PRESSURES WITH TOWN STAFF AND NOTIFY ENGINEER/LANDSCAPE ARCHITECT OF ANY DIFFERENCES PRIOR TO INSTALLATION OR ORDERING ANY IRRIGATION MATERIALS. IF CONTRACTOR FAILS TO NOTIFY TOWN CIP INSPECTOR, HE IS FINANCIALLY RESPONSIBLE FOR ANY NECESSARY SYSTEM ALTERATIONS THAT RESULT TO OPERATE SYSTEM.
2.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING WATER TO ALL NEWLY INSTALLED PLANT MATERIAL. REFER TO THE LANDSCAPE PLANS FOR LOCATIONS.
3.

CONTRACTOR SHALL PROVIDE TOWN CIP INSPECTOR WITH "AS-BUILTS" FOR THE INSTALLED IRRIGATION SYSTEM PRIOR TO FINAL ACCEPTANCE OF WORK. AS-BUILTS SHALL BE HANDLED ON A DAILY BASIS DURING INSTALLATION OF SYSTEM TO THE SATISFACTION OF THE TOWN CIP INSPECTOR.
4.

THIS IRRIGATION DESIGN IS DIAGRAMMATIC. DRIP LATERAL LINES ARE NOT SHOWN GOING TO EVERY PLANT FOR DESIGN CLARITY. THE CONTRACTOR SHALL ENSURE ALL PLANTS RECEIVE DRIP IRRIGATION AS SCHEDULED. EQUIPMENT, PIPING, VALVES, ETC. AND IRRIGATION LINES SHOWN WITHIN PAVED AREAS, SIDEWALKS AND OUTSIDE OF THE PROPERTY BOUNDARIES ARE SHOWN FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED WITHIN THE PLANTING AREAS. LOCATE VALVES AND BACKFLOW PREVENTION UNITS WITHIN PLANTER OR PROTECTED AREAS SO THAT THEY ARE VISUALLY UNOBTUSIVE.
5.

DO NOT INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS OR CONFLICTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE TOWN CIP INSPECTOR/ENGINEER. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY NECESSARY REVISIONS.
6.

CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, STRUCTURES AND EXISTING UTILITIES, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE REPAIR OR REPLACEMENT OF ALL ITEMS DAMAGED BY HIS WORK. CONTRACTOR SHALL COORDINATE THE WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS THROUGH WALLS, UNDER ROADWAYS AND PAVING, AND THROUGHOUT THE LIMITS OF WORK.
7.

ALL INSTALLED IRRIGATION SHALL BE WARRANTED IN ACCORDANCE WITH IRRIGATION SPECIFICATIONS FOR THE MINIMUM DURATION SPECIFIED: (1-YEAR FROM SUBSTANTIAL COMPLETION). ALL PRODUCT WARRANTIES SHALL BE A MINIMUM 1-YEAR FROM SUBSTANTIAL COMPLETION.
8.

IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
9.

ALL PIPE SHALL BE BEDDED ON ALL SIDES WITH FOUR INCHES OF ROCK FREE (3/8" MINUS) MATERIAL. IMPORT SAND IF NECESSARY. BACKFILL IN TWO OR MORE COMPACTED LIFTS. SETTLING OF TRENCHES BY MORE THAN ONE INCH SHALL BE BROUGHT BACK TO FINISH GRADE AT THE CONTRACTOR'S EXPENSE.
10.

ALL PLANTS REQUIRING MORE THAN ONE DRIP EMITTER SHALL HAVE EMITTERS DISTRIBUTED EVENLY AROUND PERIMETER OF PLANTING ROOT BALL. EMISSION POINTS AT ROOT BALLS SHALL BE LOCATED ON THE UPHILL SIDE, IF APPLICABLE, MIDWAY BETWEEN THE CENTER OF THE PLANT AND THE EDGE OF THE ROOT BALL.
11.

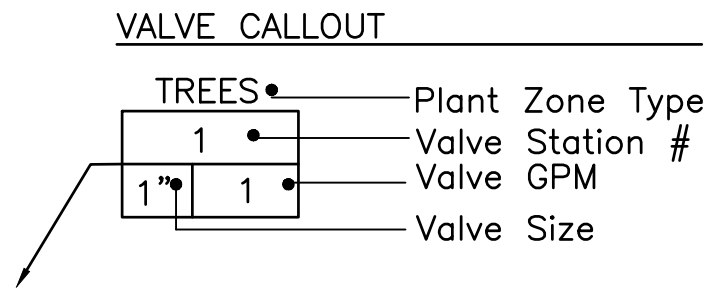
24 VOLT WIRE SHALL BE TYPE "UF" 600 VOLT, SOLID COPPER, SINGLE CONDUCTOR WIRE WITH PVC INSULATION AND BEAR UL APPROVAL FOR DIRECT UNDERGROUND BURIAL. COMMON WIRE SHALL BE 10 GAUGE WHITE; CONTROL WIRE SHALL BE 12 GAUGE RED (USE NO BLACK WIRE). TAPE AND BUNDLE WIRE AT 10' O.C. LAY BESIDE MAINLINE. SPLICE IN VALVE BOXES ONLY USING MANUFACTURED DRY-TYPE WATERPROOF CONNECTORS. PROVIDE 24" SLACK AT EACH ELBOW IN MAINLINE AND 30" SLACK AT EACH REMOTE CONTROL VALVE LOCATION. PULL ONE ADDITIONAL YELLOW 10 GAUGE SPARE WIRE TO THE MOST DISTANT VALVE LOCATION IN ALL DIRECTIONS OUT FROM THE CONTROLLER FOR POTENTIAL FUTURE USE. WHEN TWO WIRE CONTROLLER IS USED REFER TO TWO WIRE NOTES FOR ADDITIONAL INFORMATION ON CONTROL WIRE. CONTRACTOR SHALL RUN (4) FOUR SPARE VALVE WIRES AND (1) ONE SPARE COMMON WIRE TO FURTHEST VALVE IN EACH DIRECTION.
12.

LEVEL OF PEA GRAVEL IN IRRIGATION BOXES SHALL BE A MINIMUM OF 3" BELOW THE BOTTOM OF THE VALVE/FILTERS SO THAT THE COMPONENTS ARE COMPLETELY VISIBLE. ALL PEA GRAVEL AND/OR DEBRIS SHALL BE CLEARED FROM TOP OF VALVE/FILTERS AND THE LIP OF THE VALVE BOX.
13.

THE CONTRACTOR SHALL GUARANTEE PROPER WATER SUPPLY TO ALL PLANT MATERIALS THROUGHOUT THE CONTRACT PERIOD. ALL PIPING SHALL BE THOROUGHLY FLUSHED PRIOR TO EMITTER INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY REPLACEMENT OF EMITTERS DUE TO CLOGGING FOR THE DURATION OF THE PROJECT. ANY PLANT MATERIAL THAT DIES DUE TO EMITTER OPERATING FAILURE SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST.
14.

ALL VALVE BOXES SHALL HAVE OVERLAPPING LIDS WITH LOCKING BOLTS. ALL VALVE BOXES LOCATED WITHIN PLANTING AREAS SHALL BE DESERT TAN IN COLOR.
15.

THIS IRRIGATION DESIGN IS BASED UPON USING THE SPECIFIED EQUIPMENT IN THE INSTALLATION/FABRICATION OF THE SYSTEM. SUBSTITUTION OF IRRIGATION EQUIPMENT SPECIFIED IS NOT PERMITTED.



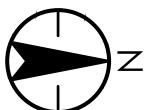
IRRIGATION SCHEDULE			
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET
	DRIP VALVE ASSEMBLY: 1" RAINBIRD PEB SERIES VALVE, BRONZE BALL VALVE AND UNIONS WITH: * FLOWS UNDER 5.0 GPM: INSTALL 3/4" RAINBIRD PRF-075-RBY IN-LINE PRESSURE REGULATING FILTER. * FLOWS OVER 5.0 GPM: INSTALL 1" PRB-QKCHK-100 COMBO QUICKCHECK/PRESSURE REGULATING BASKET FILTER.	1,8	IR501
	WATER METER-SEE CIVIL UTILITY PLANS	SEE CIVIL	SEE CIVIL
	FEBCO LF825YA OR EQ. REDUCED PRESSURE PRINCIPAL ASSEMBLY (RPPA): INSTALL IN GUARDSHACK GS-4 ENCLOSURE (VERIFY SIZE TO RPPA ORDERED)	4	IR502
	IRRIGATION CONTROLLER: WEATHERMATIC SMARTLINE #SL4800SLR -1YR-BDL-FLOW (INCLUDES: #SLPED-ENC SS PEDESTAL, #SLW1 WIRELESS WEATHER STATION AND #SL-AIRCARD)	1,2	IR502
	MASTER VALVE: GRISWOLD DWS-150 BRASS 1.5" STRAIGHT (NORMALLY CLOSED) FLOW RANGE: 0.1 TO 30 GPM	5	IR502
	FLOW SENSOR: WEATHERMATIC SLFSI-T10	5	IR502
	SOLAR PANEL ASSEMBLY W/WEATHER STATION AND POLE: WEATHERMATIC SLSOLAR-48	3	IR502
	MANUAL BRONZE GATE VALVE (NIBCO T-113-K NON-RISING STEM)-LINE SIZE	7	IR501
	DRIP LATERAL FLUSH CAP ASSEMBLY; INCLUDES VALVE BOX	6	IR501
	(SHRUB) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	(TREE) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	IRRIGATION MAINLINE: 2" PVC SCHEDULE 40 PIPE	2,3	IR501
	SLEEVE (SL): PVC SCHEDULE 40 PIPE: INSTALL (1) 4" SL FOR CONTROL WIRE BUNDLED WITH (1) 4" SL FOR MAINLINE UNDER PAVEMENTS. INSTALL (1) SEPARATE 4" SL FOR LATERAL PIPES-(1) PIPE PER SLEEVE	2	IR501
EMITTERS	SEE EMITTER CHART, SCHEDULE, AND DETAILS	4,5,9	IR501

EMITTER SCHEDULE			SHRUBS	TREES
MULTI OUTLET EMITTERS				
GPH	MANUFACTURER	MODEL/DESCRIPTION		
1	BOWSMITH PRODUCTS, 800-269-7648 www.bowsmith.com.	PRESSURE COMP. M210 THREADED 1 GPH EACH-PSI RANGE (10-30), COLOR: "BLUE CAP"		
2	BOWSMITH PRODUCTS, 800-269-7648 www.bowsmith.com.	PRESSURE COMP. M220 THREADED 2 GPH EACH-PSI RANGE (10-30), COLOR: "RED CAP"		

EMITTER QUANTITY SCHEDULE				
SHRUBS, GROUNDCOVERS, ACCENTS (SHRUB ZONE)				
SYMBOL	MULTI EMITTERS	GPH	TOTAL GPH	BOTANICAL NAME/COMMON NAME
	4 EMITTERS 16 OUTLETS	2	32	PISTACIA X HYBRID 'RED PUSH' RED PUSH PISTACHE
	4 EMITTERS 16 OUTLETS	2	32	ULMUS PARVIFLORA 'TRUE GREEN' TRUE GREEN ELM
	2 OUTLETS EACH	1	2	EREMOPHILA HYGROPHANA 'BLUE BELLS BLUE BELLS EREMOPHILA
	2 OUTLETS EACH	1	2	ERICAMERIA LARICIFOLIA 'DESERT MOUNTAIN' TURPENTINE BUSH 'DESERT MOUNTAIN'
	2 OUTLETS EACH	1	2	LEUCOPHYLLUM LANGMANIAE 'LYNN'S LEGACY' TEXAS RANGER LYNN'S LEGACY
	2 OUTLETS EACH	1	2	TEUCRIUM CHAMAERDYS GERMANDER
	2 OUTLETS EACH	1	2	EREMOPHILA GLABRA 'MINGNEW GOLD' OUTBACK SUNRISE EMU
	3 OUTLETS EACH	1	3	LANTANA X 'NEW GOLD' NEW GOLD LANTANA
	2 OUTLETS EACH	1	2	HESPERALOE PARVIFLORA 'DESERT FLAMENCO' 'DESERT FLAMENCO' FALSE YUCCA

IRRIGATION CONSTRUCTION NOTES (TYP)				
ITEM	BID ITEM	DESCRIPTION	UNIT	QTY
1.	440.41000	INSTALL IRRIGATION CONTROLLER ASSEMBLY SYSTEM PER DETAILS 1,2, SHEET IR502	EA	1
2.	440.60030	INSTALL PIPE-SCHEDULE 40-1" PER DETAIL 3, SHEET IR501	LF	11,740
3.	440.60060	INSTALL PIPE-SCHEDULE 40-2" PER DETAIL 3, SHEET IR501	LF	4,110
4.	440.62040	INSTALL SLEEVE-PIPE-SCHEDULE 40-4" PER DETAIL 2,SHEET IR501	LF	2,340
5.	440.71060	INSTALL GATE VALVE ASSEMBLY-2" PER DETAIL 7, SHEET IR501	EA	5
6.	440.72200	INSTALL DRIP EMITTER ASSEMBLY- MULTI OUTLET PER DETAILS 4,5,9, SHEET IR501	EA	772
7.	440.72320	INSTALL DRIP LATERAL FLUSH CAP ASSEMBLY PER DETAIL 6, SHT. IR501	EA	28
8.	440.73100	INSTALL FLOW SENSOR ASSEMBLY 1" PER DETAIL 5, SHEET IR502	EA	1
9.	440.74200	INSTALL MASTER VALVE ASSEMBLY 1½" PER DETAIL 5, SHEET IR502	EA	1
10.	440.76100	INSTALL REMOTE CONTROL VALVE, DRIP-1" PER DETAIL 1,SHEET IR501	EA	12
11.	440.91000	INSTALL SOLAR POWER ASSEMBLY COMPLETE PER DETAIL 3, SHEET IR502	EA	1
12.	632.01000	INSTALL REDUCED PRESSURE BACKFLOW UNIT, CONCRETE PAD, AND ENCLOSURE PER DETAIL 5/IR502	EA	1
13.		INSTALL SPARE WIRES FROM CONTROLLER TO STATION #1 (±2,450') AND TO #11 (±1,800') AS FOLLOWS: (1)#10 COMMON, (2) #12 RED, TOTAL (±12,750')		

SHEET KEYMAP



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QUEEN CREEK

POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS

3133 West Frye Road
Chandler, Arizona 85226
Tel. 480.687.6100
www.stantec.com

IRRIGATION NOTES AND SCHEDULES

DESIGNED BY CB

CIP PROJ NO. A1405

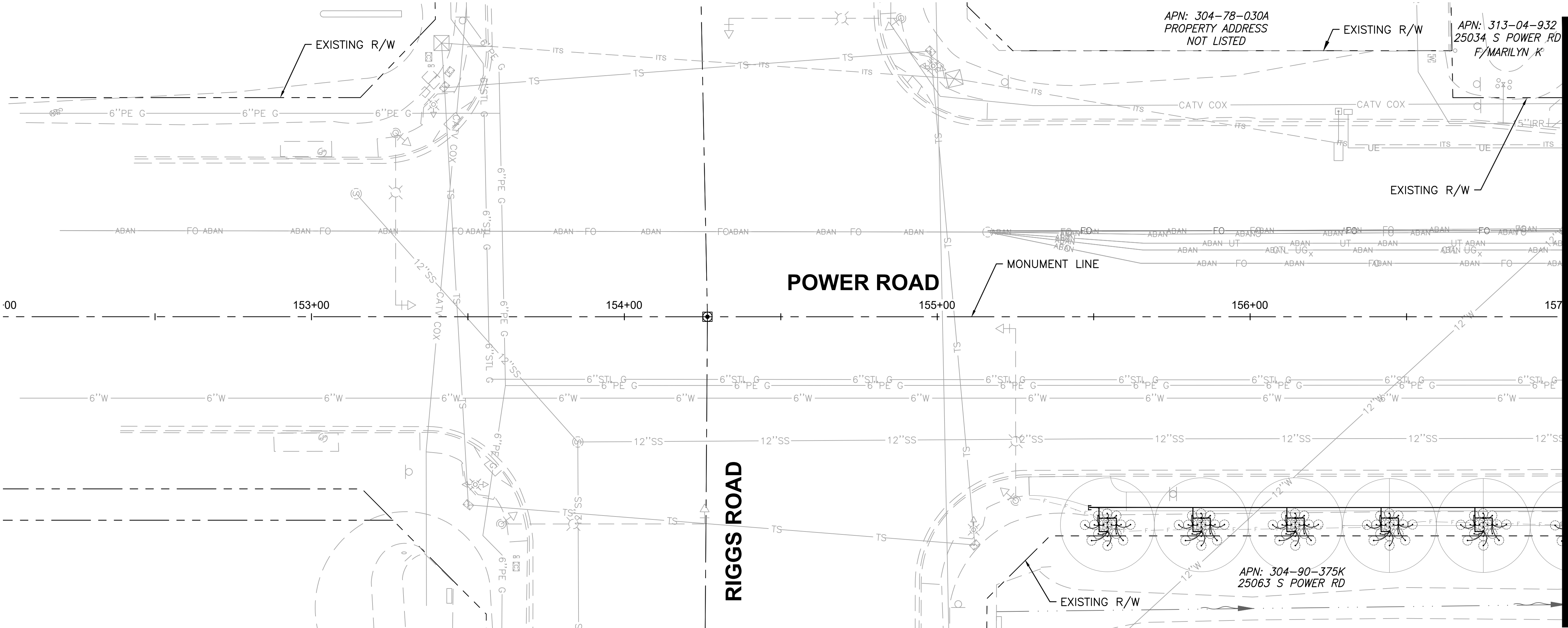
DRAWN BY CB

DRAWING NO. IR101

SHEET 98 OF 133

PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

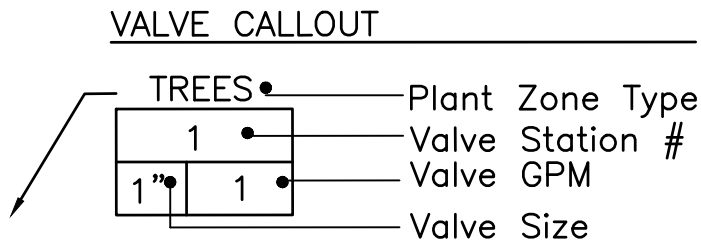
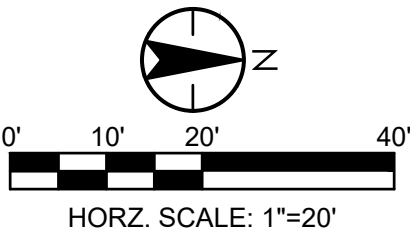
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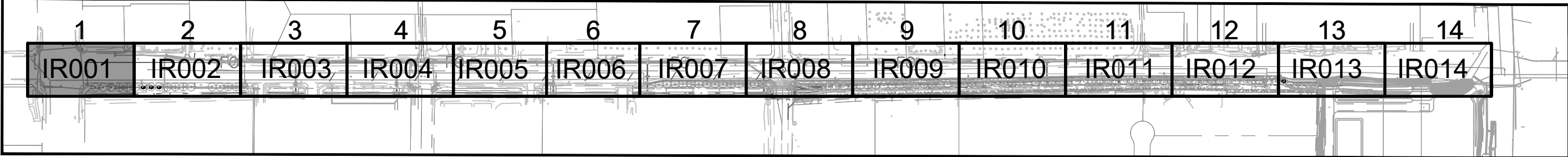
MATCH LINE - STA 157+00 SEE DWG IR002

IRRIGATION CONSTRUCTION NOTES (TYP)				
ITEM	BID ITEM	DESCRIPTION	UNIT	QTY
1.	440.41000	INSTALL IRRIGATION CONTROLLER ASSEMBLY SYSTEM PER DETAILS 1,2, SHEET IR502	EA	0
2.	440.60030	INSTALL PIPE-SCHEDULE 40-1" PER DETAIL 3, SHEET IR501	LF	270
3.	440.60060	INSTALL PIPE-SCHEDULE 40-2" PER DETAIL 3, SHEET IR501	LF	0
4.	440.62040	INSTALL SLEEVE-PIPE-SCHEDULE 40-4" PER DETAIL 2,SHEET IR501	LF	0
5.	440.71060	INSTALL GATE VALVE ASSEMBLY-2" PER DETAIL 7, SHEET IR501	EA	0
6.	440.72200	INSTALL DRIP EMITTER ASSEMBLY-MULTI OUTLET PER DETAILS 4,5,9, SHEET IR501	EA	20
7.	440.72320	INSTALL DRIP LATERAL FLUSH CAP ASSEMBLY PER DETAIL 6, SHT. IR501	EA	1
8.	440.73100	INSTALL FLOW SENSOR ASSEMBLY 1" PER DETAIL 5, SHEET IR502	EA	0
9.	440.74200	INSTALL MASTER VALVE ASSEMBLY 1½" PER DETAIL 5, SHEET IR502	EA	0
10.	440.76100	INSTALL REMOTE CONTROL VALVE, DRIP-1" PER DETAIL 1,SHEET IR501	EA	0
11.	440.91000	INSTALL SOLAR POWER ASSEMBLY COMPLETE PER DETAIL 3, SHEET IR502	EA	0
12.	632.01000	INSTALL REDUCED PRESSURE BACKFLOW UNIT, CONCRETE PAD, AND ENCLOSURE PER DETAIL 5/IR502	EA	0
13.	INSTALL SPARE WIRES FROM CONTROLLER TO STATION #1 (±2,450') AND TO #11 (±1,800') AS FOLLOWS: (1)#10 COMMON, (2) #12 RED, TOTAL (+12 750')			

IRRIGATION SCHEDULE							
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET
	DRIP VALVE ASSEMBLY: 1" RAINBIRD PEB SERIES VALVE, BRONZE BALL VALVE AND UNIONS WITH: * FLOWS UNDER 5.0 GPM: INSTALL 3/4" RAINBIRD PRF-075-RBY IN-LINE PRESSURE REGULATING FILTER. * FLOWS OVER 5.0 GPM: INSTALL 1" PRB-QKCHK-100 COMBO QUICKCHECK/PRESSURE REGULATING BASKET FILTER.	1,8	IR501		FLOW SENSOR: WEATHERMATIC SLFSI-T10	5	IR502
					SOLAR PANEL ASSEMBLY W/WEATHER STATION AND POLE: WEATHERMATIC SLSOLAR-48	3	IR502
					MANUAL BRONZE GATE VALVE (NIBCO T-113-K NON-RISING STEM)-LINE SIZE	7	IR501
					DRIP LATERAL FLUSH CAP ASSEMBLY; INCLUDES VALVE BOX	6	IR501
					(SHRUB) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	WATER METER-SEE CIVIL UTILITY PLANS	-	-		(TREE) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	FEBCO LF825YA OR EQ. REDUCED PRESSURE PRINCIPAL ASSEMBLY (RPPA): INSTALL IN GUARDSHACK GS-4 ENCLOSURE (VERIFY SIZE TO RPPA ORDERED)	4	IR502		IRRIGATION MAINLINE: 2" PVC SCHEDULE 40 PIPE	2,3	IR501
	IRRIGATION CONTROLLER: WEATHERMATIC SMARTLINE #SL4800SLR -1YR-BDL-FLOW (INCLUDES: #SLPED-ENC SS PEDESTAL, #SLW1 WIRELESS WEATHER STATION AND #SL-AIRCARD)	1,2	IR502		SLEEVE (SL): PVC SCHEDULE 40 PIPE: INSTALL (1) 4" SL FOR CONTROL WIRE BUNDLED WITH (1) 4" SL FOR MAINLINE UNDER PAVEMENTS. INSTALL (1) SEPARATE 4" SL FOR LATERAL PIPES-(1) PIPE PER SLEEVE	2	IR501
	MASTER VALVE: GRISWOLD DWS-150 BRASS 1.5" STRAIGHT (NORMALLY CLOSED) FLOW RANGE: 0.1 TO 30 GPM	5	IR502		SEE EMITTER CHART, SCHEDULE, AND DETAILS	4,5,9	IR501



SHEET KEYMAP



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DESIGNED BY: CB

DRAWN BY: CB

CIP PROJ NO. A1405

DRAWING NO. IR001

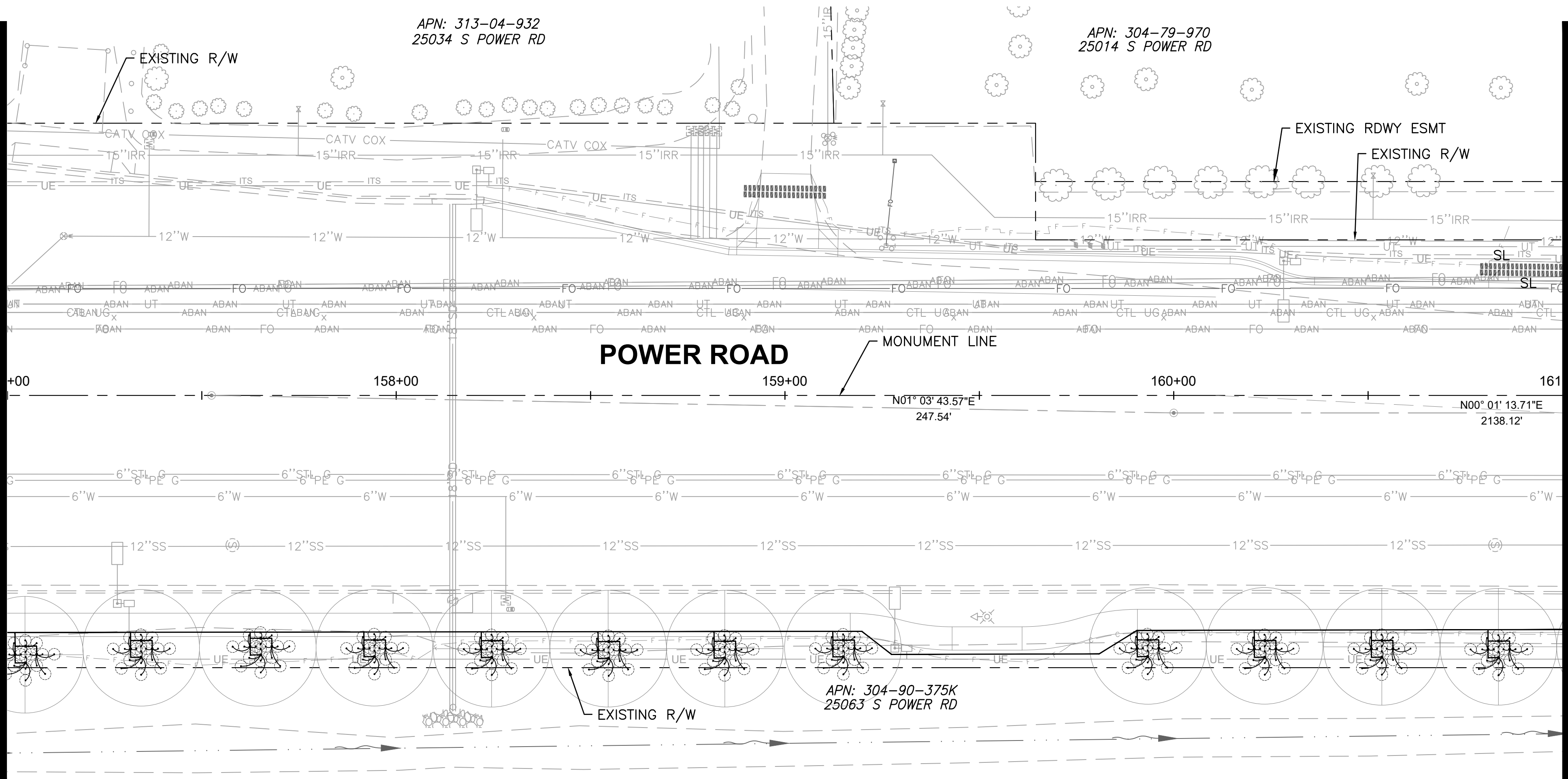
SHEET 99 OF 133

IRRIGATION PLAN 1

PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

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MATCH LINE - STA 157+00 SEE DWG IR001



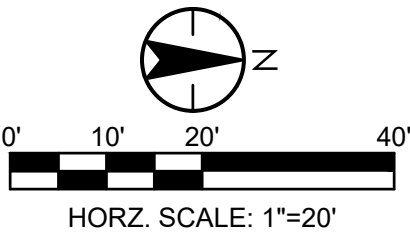
MATCH LINE - STA 161+00 SEE DWG IR003

IRRIGATION CONSTRUCTION NOTES (TYP)

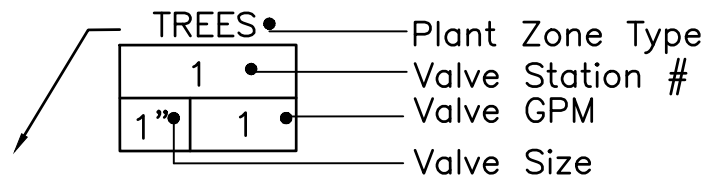
ITEM	BID ITEM	DESCRIPTION	UNIT	QTY
1.	440.41000	INSTALL IRRIGATION CONTROLLER ASSEMBLY SYSTEM PER DETAILS 1,2, SHEET IR502	EA	0
2.	440.60030	INSTALL PIPE-SCHEDULE 40-1\"	LF	680
3.	440.60060	INSTALL PIPE-SCHEDULE 40-2\"	LF	0
4.	440.62040	INSTALL SLEEVE-PIPE-SCHEDULE 40-4\" PER DETAIL 2,SHEET IR501	LF	110
5.	440.71060	INSTALL GATE VALVE ASSEMBLY-2\" PER DETAIL 7, SHEET IR501	EA	0
6.	440.72200	INSTALL DRIP EMITTER ASSEMBLY- MULTI OUTLET PER DETAILS 4,5,9, SHEET IR501	EA	48
7.	440.72320	INSTALL DRIP LATERAL FLUSH CAP ASSEMBLY PER DETAIL 6, SHT. IR501	EA	0
8.	440.73100	INSTALL FLOW SENSOR ASSEMBLY 1\" PER DETAIL 5, SHEET IR502	EA	0
9.	440.74200	INSTALL MASTER VALVE ASSEMBLY 1½\" PER DETAIL 5, SHEET IR502	EA	0
10.	440.76100	INSTALL REMOTE CONTROL VALVE, DRIP-1\" PER DETAIL 1,SHEET IR501	EA	0
11.	440.91000	INSTALL SOLAR POWER ASSEMBLY COMPLETE PER DETAIL 3, SHEET IR502	EA	0
12.	632.01000	INSTALL REDUCED PRESSURE BACKFLOW UNIT, CONCRETE PAD, AND ENCLOSURE PER DETAIL 5/IR502	EA	0
13.	INSTALL SPARE WIRES FROM CONTROLLER TO STATION #1 (±2,450') AND TO #11 (±1,800') AS FOLLOWS: (1)#10 COMMON, (2) #12 RED, TOTAL (+12 750')			

IRRIGATION SCHEDULE

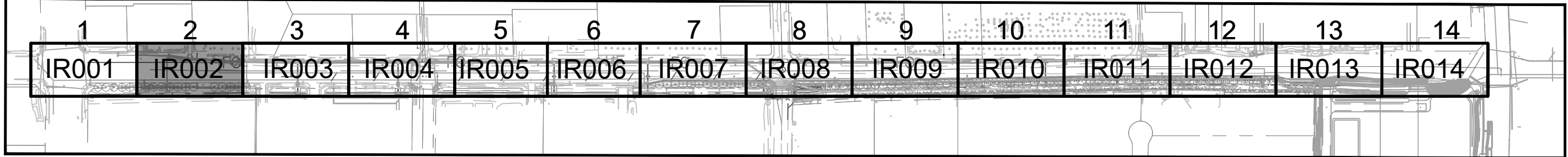
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET
	DRIP VALVE ASSEMBLY: 1\"	1,8	IR501		FLOW SENSOR: WEATHERMATIC SLFSI-T10	5	IR502
					SOLAR PANEL ASSEMBLY W/WEATHER STATION AND POLE: WEATHERMATIC SLSOLAR-48	3	IR502
					MANUAL BRONZE GATE VALVE (NIBCO T-113-K NON-RISING STEM)-LINE SIZE	7	IR501
					DRIP LATERAL FLUSH CAP ASSEMBLY; INCLUDES VALVE BOX	6	IR501
					(SHRUB) LATERAL LINE: 1\"	2,3	IR501
	WATER METER-SEE CIVIL UTILITY PLANS	-	-		(TREE) LATERAL LINE: 1\"	2,3	IR501
	FEBCO LF825YA OR EQ. REDUCED PRESSURE PRINCIPAL ASSEMBLY (RPPA): INSTALL IN GUARDSHACK GS-4 ENCLOSURE (VERIFY SIZE TO RPPA ORDERED)	4	IR502		IRRIGATION MAINLINE: 2\"	2,3	IR501
	IRRIGATION CONTROLLER: WEATHERMATIC SMARTLINE #SL4800SLR -1YR-BDL-FLOW (INCLUDES: #SLPED-ENC SS PEDESTAL, #SLW1 WIRELESS WEATHER STATION AND #SL-AIRCARD)	1,2	IR502		SLEEVE (SL): PVC SCHEDULE 40 PIPE: INSTALL (1) 4\"	2	IR501
	MASTER VALVE: GRISWOLD DWS-150 BRASS 1.5\"	5	IR502		SEE EMITTER CHART, SCHEDULE, AND DETAILS	4,5,9	IR501



VALVE CALLOUT



SHEET KEYMAP



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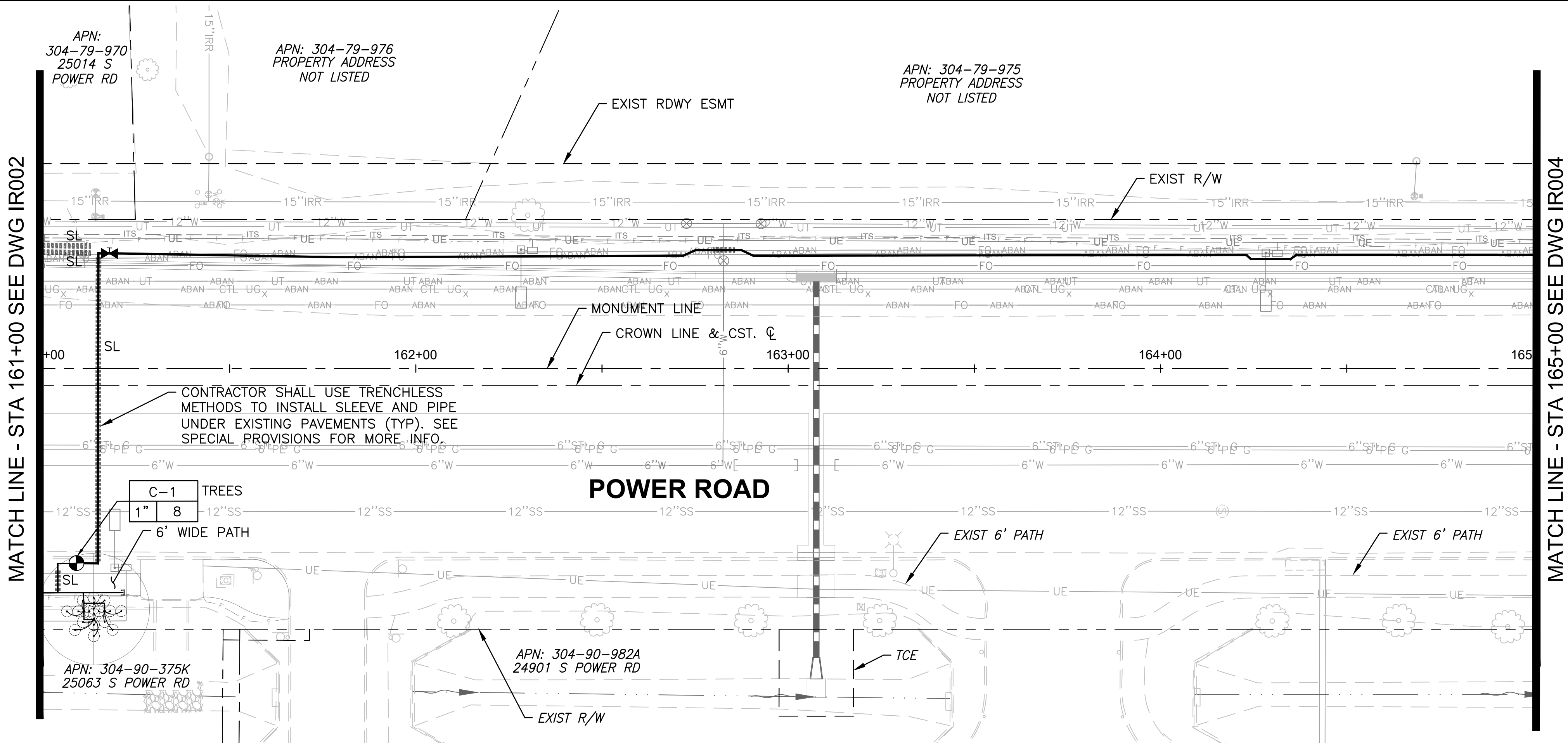
CIP PROJ NO. A1405

DRAWING NO. IR002

SHEET 100 OF 133

PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

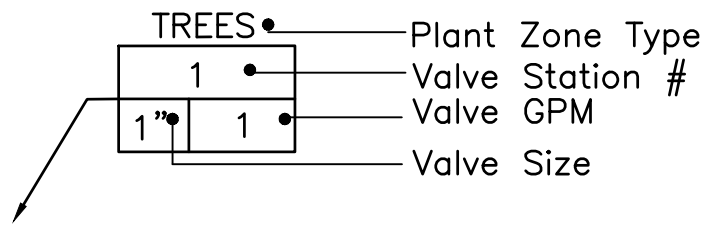
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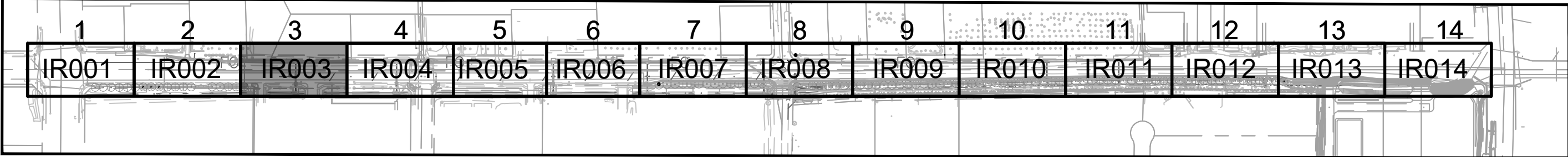
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET
	DRIP VALVE ASSEMBLY: 1" RAINBIRD PEB SERIES VALVE, BRONZE BALL VALVE AND UNIONS WITH: * FLOWS UNDER 5.0 GPM: INSTALL 3/4" RAINBIRD PRF-075-RBY IN-LINE PRESSURE REGULATING FILTER. * FLOWS OVER 5.0 GPM: INSTALL 1" PRB-QKCHK-100 COMBO QUICKCHECK/PRESSURE REGULATING BASKET FILTER.	1,8	IR501		FLOW SENSOR: WEATHERMATIC SLFSI-T10	5	IR502
					SOLAR PANEL ASSEMBLY W/WEATHER STATION AND POLE: WEATHERMATIC SLSOLAR-48	3	IR502
					MANUAL BRONZE GATE VALVE (NIBCO T-113-K NON-RISING STEM)-LINE SIZE	7	IR501
					DRIP LATERAL FLUSH CAP ASSEMBLY; INCLUDES VALVE BOX	6	IR501
					(SHRUB) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	WATER METER-SEE CIVIL UTILITY PLANS	-	-		(TREE) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	FEBCO LF825YA OR EQ. REDUCED PRESSURE PRINCIPAL ASSEMBLY (RPPA): INSTALL IN GUARDSHACK GS-4 ENCLOSURE (VERIFY SIZE TO RPPA ORDERED)	4	IR502		IRRIGATION MAINLINE: 2" PVC SCHEDULE 40 PIPE	2,3	IR501
	IRRIGATION CONTROLLER: WEATHERMATIC SMARTLINE #SL4800SLR -1YR-BDL-FLOW (INCLUDES: #SLPED-ENC SS PEDESTAL, #SLW1 WIRELESS WEATHER STATION AND #SL-AIRCARD)	1,2	IR502		SLEEVE (SL): PVC SCHEDULE 40 PIPE: INSTALL (1) 4" SL FOR CONTROL WIRE BUNDLED WITH (1) 4" SL FOR MAINLINE UNDER PAVEMENTS. INSTALL (1) SEPARATE 4" SL FOR LATERAL PIPES-(1) PIPE PER SLEEVE	2	IR501
	MASTER VALVE: GRISWOLD DWS-150 BRASS 1.5" STRAIGHT (NORMALLY CLOSED) FLOW RANGE: 0.1 TO 30 GPM	5	IR502		SEE EMITTER CHART, SCHEDULE, AND DETAILS	4,5,9	IR501

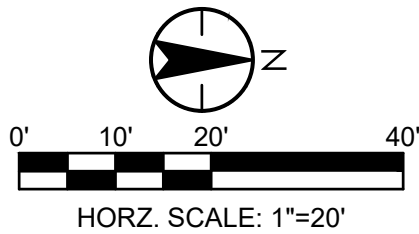
VALVE CALLOUT



SHEET KEYMAP



IRRIGATION CONSTRUCTION NOTES (TYP)				
ITEM	BID ITEM	DESCRIPTION	UNIT	QTY
1.	440.41000	INSTALL IRRIGATION CONTROLLER ASSEMBLY SYSTEM PER DETAILS 1,2, SHEET IR502	EA	0
2.	440.60030	INSTALL PIPE-SCHEDULE 40-1" PER DETAIL 3, SHEET IR501	LF	60
3.	440.60060	INSTALL PIPE-SCHEDULE 40-2" PER DETAIL 3, SHEET IR501	LF	480
4.	440.62040	INSTALL SLEEVE-PIPE-SCHEDULE 40-4" PER DETAIL 2,SHEET IR501	LF	220
5.	440.71060	INSTALL GATE VALVE ASSEMBLY-2" PER DETAIL 7, SHEET IR501	EA	1
6.	440.72200	INSTALL DRIP EMITTER ASSEMBLY-MULTI OUTLET PER DETAILS 4,5,9, SHEET IR501	EA	4
7.	440.72320	INSTALL DRIP LATERAL FLUSH CAP ASSEMBLY PER DETAIL 6, SHT. IR501	EA	1
8.	440.73100	INSTALL FLOW SENSOR ASSEMBLY 1" PER DETAIL 5, SHEET IR502	EA	0
9.	440.74200	INSTALL MASTER VALVE ASSEMBLY 1½" PER DETAIL 5, SHEET IR502	EA	0
10.	440.76100	INSTALL REMOTE CONTROL VALVE, DRIP-1" PER DETAIL 1,SHEET IR501	EA	1
11.	440.91000	INSTALL SOLAR POWER ASSEMBLY COMPLETE PER DETAIL 3, SHEET IR502	EA	0
12.	632.01000	INSTALL REDUCED PRESSURE BACKFLOW UNIT, CONCRETE PAD, AND ENCLOSURE PER DETAIL 5/IR502	EA	0
13.	INSTALL SPARE WIRES FROM CONTROLLER TO STATION #1 (±2,450') AND TO #11 (±1,800') AS FOLLOWS: (1)#10 COMMON, (2) #12 RED, TOTAL (±4,250')			



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126634
CARY K.
BAIRD

POWER ROAD:
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ROADWAY AND DRAINAGE IMPROVEMENTS

Stantec

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Chandler, Arizona 85226
Tel. 480.687.6100
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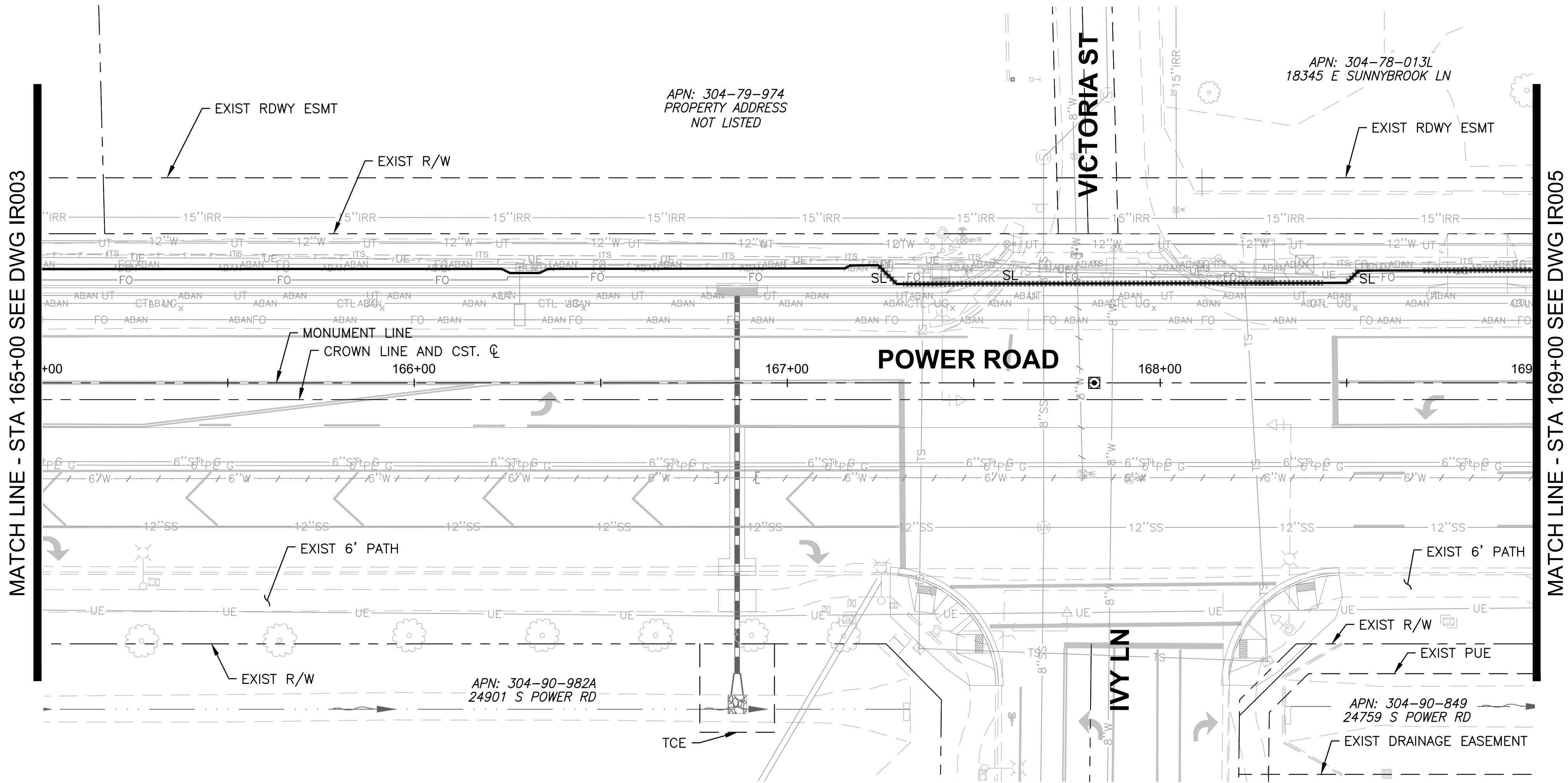
IRRIGATION PLAN 3

DESIGNED BY	CB	CIP PROJ NO. A1405
DRAWN BY	CB	

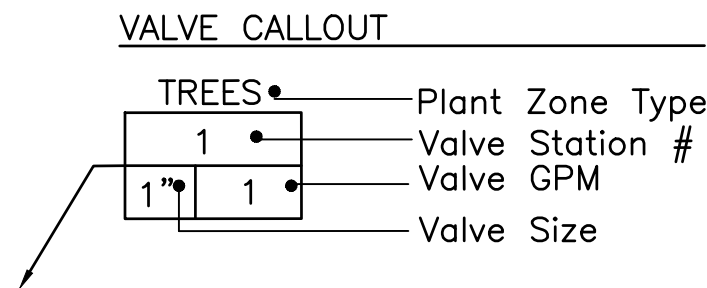
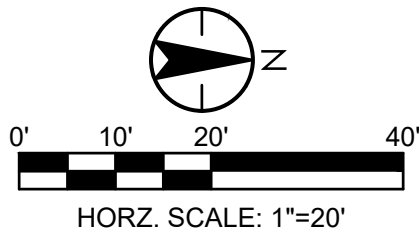
DRAWING NO.	IR003	SHEET 101 OF 133
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PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

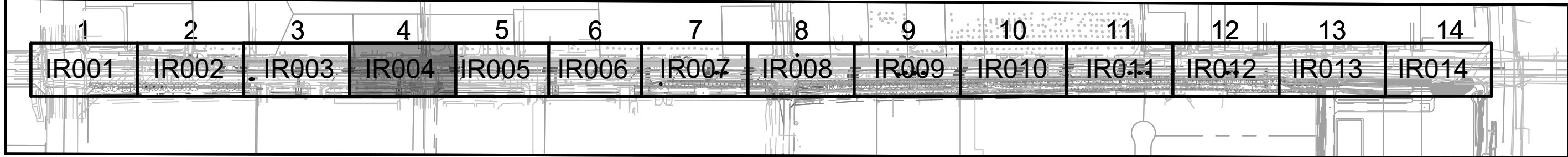
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IRRIGATION SCHEDULE							
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET
	DRIP VALVE ASSEMBLY: 1" RAINBIRD PEB SERIES VALVE, BRONZE BALL VALVE AND UNIONS WITH: * FLOWS <u>UNDER</u> 5.0 GPM: INSTALL 3/4" RAINBIRD PRF-075-RBY IN-LINE PRESSURE REGULATING FILTER. * FLOWS <u>OVER</u> 5.0 GPM: INSTALL 1" PRB-QKCHK-100 COMBO QUICKCHECK/PRESSURE REGULATING BASKET FILTER.	1,8	IR501		FLOW SENSOR: WEATHERMATIC SLFSI-T10	5	IR502
					SOLAR PANEL ASSEMBLY W/WEATHER STATION AND POLE: WEATHERMATIC SLSOLAR-48	3	IR502
					MANUAL BRONZE GATE VALVE (NIBCO T-113-K NON-RISING STEM)-LINE SIZE	7	IR501
					DRIP LATERAL FLUSH CAP ASSEMBLY; INCLUDES VALVE BOX	6	IR501
					(SHRUB) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	WATER METER-SEE CIVIL UTILITY PLANS	-	-		(TREE) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	FEBCO LF825YA OR EQ. REDUCED PRESSURE PRINCIPAL ASSEMBLY (RPPA): INSTALL IN GUARDSHACK GS-4 ENCLOSURE (VERIFY SIZE TO RPPA ORDERED)	4	IR502		IRRIGATION MAINLINE: 2" PVC SCHEDULE 40 PIPE	2,3	IR501
	IRRIGATION CONTROLLER: WEATHERMATIC SMARTLINE #SL4800SLR -1YR-BDL-FLOW (INCLUDES: #SLPED-ENC SS PEDESTAL, #SLW1 WIRELESS WEATHER STATION AND #SL-AIRCARD)	1,2	IR502		SLEEVE (SL): PVC SCHEDULE 40 PIPE: INSTALL (1) 4" SL FOR CONTROL WIRE BUNDLED WITH (1) 4" SL FOR MAINLINE UNDER PAVEMENTS. INSTALL (1) SEPARATE 4" SL FOR LATERAL PIPES-(1) PIPE PER SLEEVE	2	IR501
	MASTER VALVE: GRISWOLD DWS-150 BRASS 1.5" STRAIGHT (NORMALLY CLOSED) FLOW RANGE: 0.1 TO 30 GPM	5	IR502		SEE EMITTER CHART, SCHEDULE, AND DETAILS	4,5,9	IR501



SHEET KEYMAP



IRRIGATION CONSTRUCTION NOTES (TYP)				
ITEM	BID ITEM	DESCRIPTION	UNIT	QTY
1.	440.41000	INSTALL IRRIGATION CONTROLLER ASSEMBLY SYSTEM PER DETAILS 1,2, SHEET IR502	EA	0
2.	440.60030	INSTALL PIPE-SCHEDULE 40-1" PER DETAIL 3, SHEET IR501	LF	0
3.	440.60060	INSTALL PIPE-SCHEDULE 40-2" PER DETAIL 3, SHEET IR501	LF	410
4.	440.62040	INSTALL SLEEVE-PIPE-SCHEDULE 40-4" PER DETAIL 2,SHEET IR501	LF	300
5.	440.71060	INSTALL GATE VALVE ASSEMBLY-2" PER DETAIL 7, SHEET IR501	EA	0
6.	440.72200	INSTALL DRIP EMITTER ASSEMBLY-MULTI OUTLET PER DETAILS 4,5,9, SHEET IR501	EA	0
7.	440.72320	INSTALL DRIP LATERAL FLUSH CAP ASSEMBLY PER DETAIL 6, SHT. IR501	EA	0
8.	440.73100	INSTALL FLOW SENSOR ASSEMBLY 1" PER DETAIL 5, SHEET IR502	EA	0
9.	440.74200	INSTALL MASTER VALVE ASSEMBLY 1½" PER DETAIL 5, SHEET IR502	EA	0
10.	440.76100	INSTALL REMOTE CONTROL VALVE, DRIP-1" PER DETAIL 1,SHEET IR501	EA	0
11.	440.91000	INSTALL SOLAR POWER ASSEMBLY COMPLETE PER DETAIL 3, SHEET IR502	EA	0
12.	632.01000	INSTALL REDUCED PRESSURE BACKFLOW UNIT, CONCRETE PAD, AND ENCLOSURE PER DETAIL 5/IR502	EA	0
13.		INSTALL SPARE WIRES FROM CONTROLLER TO STATION #1 (±2,450') AND TO #11 (±1,800') AS FOLLOWS: (1)#10 COMMON, (2) #12 RED, TOTAL (±412 750')		

POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS

IRRIGATION PLAN 4

DESIGNED BY: CB

DRAWN BY: CB

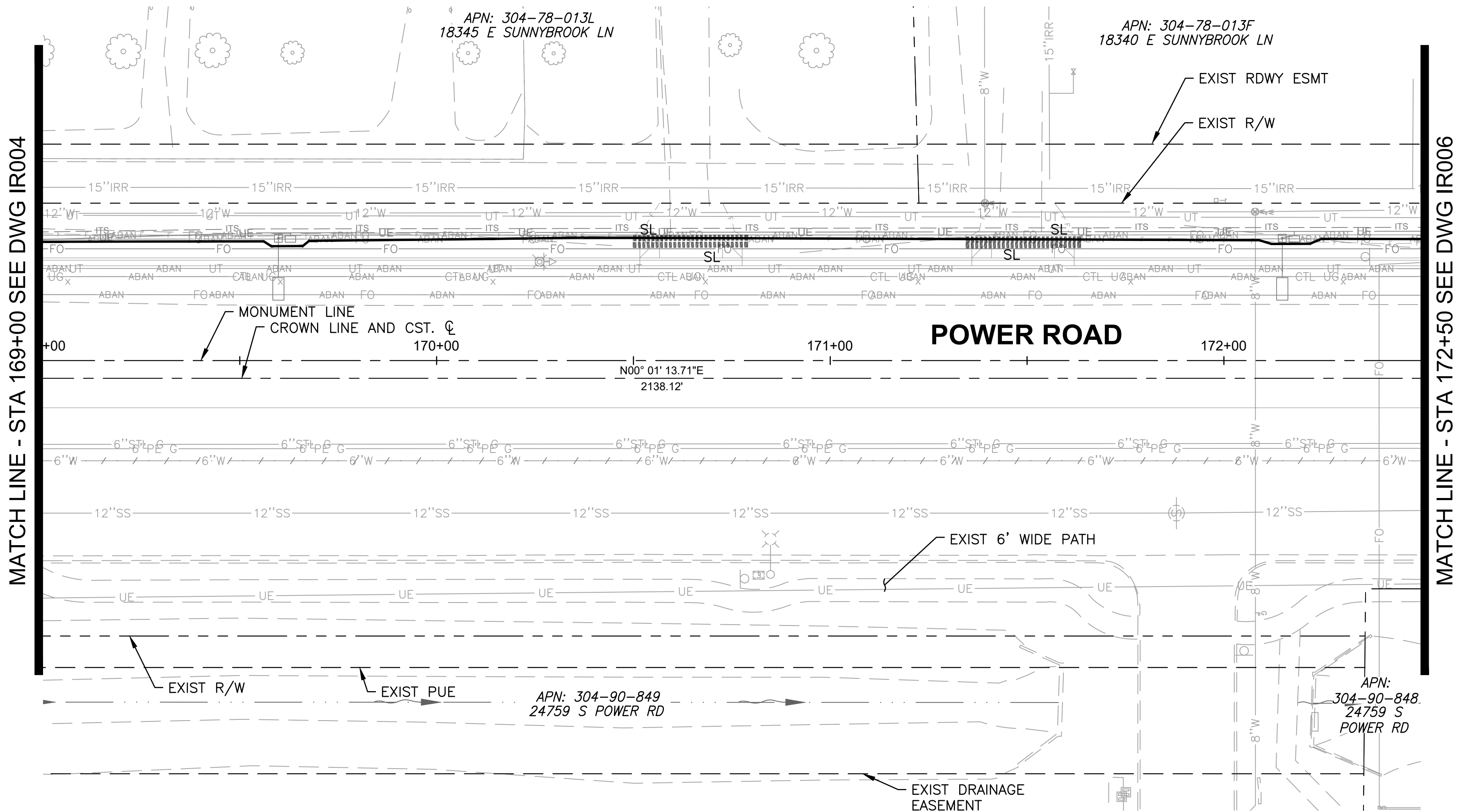
CIP PROJ NO. A1405

DRAWING NO. IR004

SHEET 102 OF 133

PROJECT NO: A0405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

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IRRIGATION CONSTRUCTION NOTES (TYP)				
ITEM	BID ITEM	DESCRIPTION	UNIT	QTY
1.	440.41000	INSTALL IRRIGATION CONTROLLER ASSEMBLY SYSTEM PER DETAILS 1,2, SHEET IR502	EA	0
2.	440.60030	INSTALL PIPE-SCHEDULE 40-1\"	LF	0
3.	440.60060	INSTALL PIPE-SCHEDULE 40-2\"	LF	360
4.	440.62040	INSTALL SLEEVE-PIPE-SCHEDULE 40-4\" PER DETAIL 2,SHEET IR501	LF	180
5.	440.71060	INSTALL GATE VALVE ASSEMBLY-2\" PER DETAIL 7, SHEET IR501	EA	0
6.	440.72200	INSTALL DRIP EMITTER ASSEMBLY- MULTI OUTLET PER DETAILS 4,5,9, SHEET IR501	EA	0
7.	440.72320	INSTALL DRIP LATERAL FLUSH CAP ASSEMBLY PER DETAIL 6, SHT. IR501	EA	0
8.	440.73100	INSTALL FLOW SENSOR ASSEMBLY 1\" PER DETAIL 5, SHEET IR502	EA	0
9.	440.74200	INSTALL MASTER VALVE ASSEMBLY 1½\" PER DETAIL 5, SHEET IR502	EA	0
10.	440.76100	INSTALL REMOTE CONTROL VALVE, DRIP-1\" PER DETAIL 1,SHEET IR501	EA	0
11.	440.91000	INSTALL SOLAR POWER ASSEMBLY COMPLETE PER DETAIL 3, SHEET IR502	EA	0
12.	632.01000	INSTALL REDUCED PRESSURE BACKFLOW UNIT, CONCRETE PAD, AND ENCLOSURE PER DETAIL 5/IR502	EA	0
13.	INSTALL SPARE WIRES FROM CONTROLLER TO STATION #1 (±2,450') AND TO #11 (±1,800') AS FOLLOWS: (1)#10 COMMON, (2) #12 RED, TOTAL (±12,750')			

IRRIGATION SCHEDULE							
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET
	DRIP VALVE ASSEMBLY: 1" RAINBIRD PEB SERIES VALVE, BRONZE BALL VALVE AND UNIONS WITH: * FLOWS UNDER 5.0 GPM: INSTALL 3/4" RAINBIRD PRF-075-RBY IN-LINE PRESSURE REGULATING FILTER. * FLOWS OVER 5.0 GPM: INSTALL 1" PRB-QKCHK-100 COMBO QUICKCHECK/PRESSURE REGULATING BASKET FILTER.	1,8	IR501		FLOW SENSOR: WEATHERMATIC SLFSI-T10	5	IR502
					SOLAR PANEL ASSEMBLY W/WEATHER STATION AND POLE: WEATHERMATIC SLSOLAR-48	3	IR502
					MANUAL BRONZE GATE VALVE (NIBCO T-113-K NON-RISING STEM)-LINE SIZE	7	IR501
					DRIP LATERAL FLUSH CAP ASSEMBLY; INCLUDES VALVE BOX	6	IR501
					(SHRUB) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	WATER METER-SEE CIVIL UTILITY PLANS	-	-		(TREE) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	FEBCO LF825YA OR EQ. REDUCED PRESSURE PRINCIPAL ASSEMBLY (RPPA): INSTALL IN GUARDSHACK GS-4 ENCLOSURE (VERIFY SIZE TO RPPA ORDERED)	4	IR502		IRRIGATION MAINLINE: 2" PVC SCHEDULE 40 PIPE	2,3	IR501
	IRRIGATION CONTROLLER: WEATHERMATIC SMARTLINE #SL4800SLR -1YR-BDL-FLOW (INCLUDES: #SLPED-ENC SS PEDESTAL, #SLW1 WIRELESS WEATHER STATION AND #SL-AIRCARD)	1,2	IR502		SLEEVE (SL): PVC SCHEDULE 40 PIPE: INSTALL (1) 4" SL FOR CONTROL WIRE BUNDLED WITH (1) 4" SL FOR MAINLINE UNDER PAVEMENTS. INSTALL (1) SEPARATE 4" SL FOR LATERAL PIPES-(1) PIPE PER SLEEVE	2	IR501
	MASTER VALVE: GRISWOLD DWS-150 BRASS 1.5" STRAIGHT (NORMALLY CLOSED) FLOW RANGE: 0.1 TO 30 GPM	5	IR502		SEE EMITTER CHART, SCHEDULE, AND DETAILS	4,5,9	IR501



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Tel. 480.687.6100
www.stantec.com

IRRIGATION PLAN 5

DESIGNED BY CB

CIP PROJ NO. A1405

DRAWN BY CB

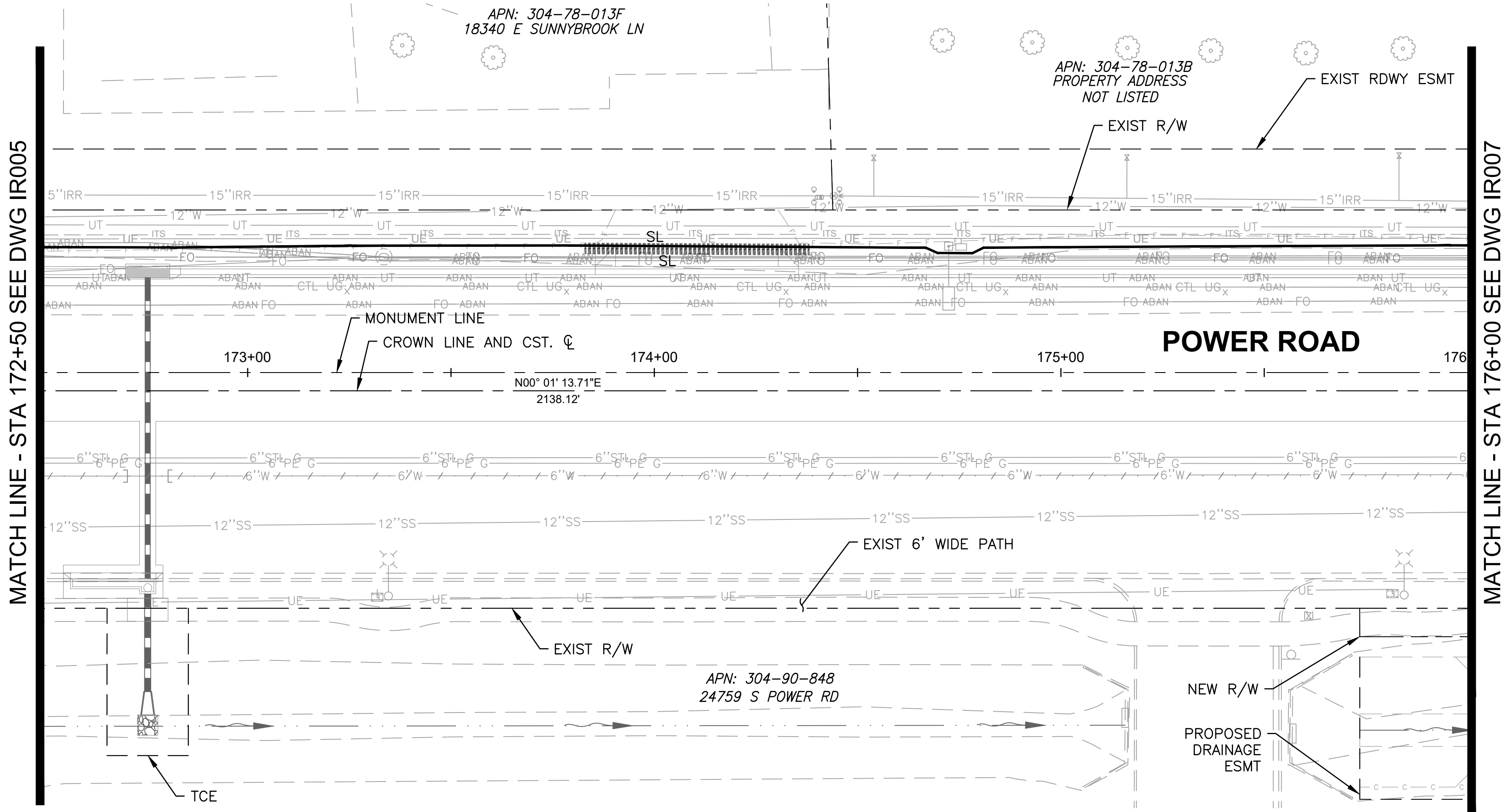
DRAWING NO. IR005

SHEET 103 OF 133

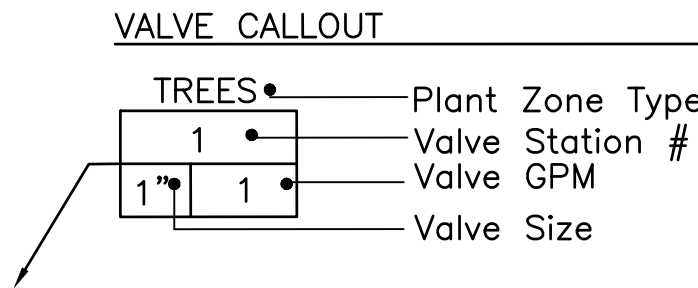
SHEET KEYMAP

VALVE CALLOUT

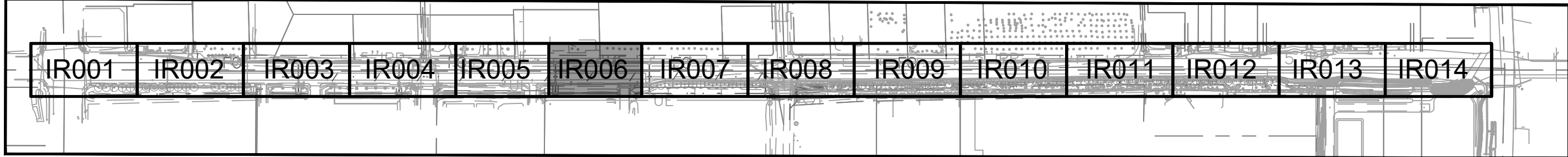
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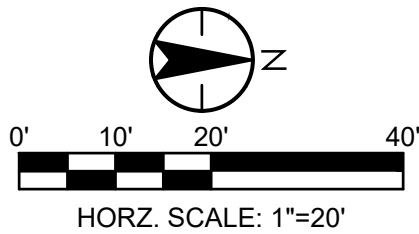
IRRIGATION SCHEDULE							
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET
	DRIP VALVE ASSEMBLY: 1" RAINBIRD PEB SERIES VALVE, BRONZE BALL VALVE AND UNIONS WITH:	1,8	IR501		FLOW SENSOR: WEATHERMATIC SLFSI-T10	5	IR502
	* FLOWS UNDER 5.0 GPM: INSTALL 3/4" RAINBIRD PRF-075-RBY IN-LINE PRESSURE REGULATING FILTER.				SOLAR PANEL ASSEMBLY W/WEATHER STATION AND POLE: WEATHERMATIC SLSOLAR-48	3	IR502
	* FLOWS OVER 5.0 GPM: INSTALL 1" PRB-QKCHK-100 COMBO QUICKCHECK/PRESSURE REGULATING BASKET FILTER.				MANUAL BRONZE GATE VALVE (NIBCO T-113-K NON-RISING STEM)-LINE SIZE	7	IR501
					DRIP LATERAL FLUSH CAP ASSEMBLY; INCLUDES VALVE BOX	6	IR501
					(SHRUB) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	WATER METER-SEE CIVIL UTILITY PLANS	-	-		(TREE) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	FESCO LF825YA OR EQ. REDUCED PRESSURE PRINCIPAL ASSEMBLY (RPPA): INSTALL IN GUARDSHACK GS-4 ENCLOSURE (VERIFY SIZE TO RPPA ORDERED)	4	IR502		IRRIGATION MAINLINE: 2" PVC SCHEDULE 40 PIPE	2,3	IR501
	IRRIGATION CONTROLLER: WEATHERMATIC SMARTLINE #SL4800SLR -1YR-BDL-FLOW (INCLUDES: #SLPED-ENC SS PEDESTAL, #SLW1 WIRELESS WEATHER STATION AND #SL-AIRCARD)	1,2	IR502		SLEEVE (SL): PVC SCHEDULE 40 PIPE: INSTALL (1) 4" SL FOR CONTROL WIRE BUNDLED WITH (1) 4" SL FOR MAINLINE UNDER PAVEMENTS. INSTALL (1) SEPARATE 4" SL FOR LATERAL PIPES-(1) PIPE PER SLEEVE	2	IR501
	MASTER VALVE: GRISWOLD DWS-150 BRASS 1.5" STRAIGHT (NORMALLY CLOSED) FLOW RANGE: 0.1 TO 30 GPM	5	IR502		SEE EMITTER CHART, SCHEDULE, AND DETAILS	4,5,9	IR501



SHEET KEYMAP



IRRIGATION CONSTRUCTION NOTES (TYP)				
ITEM	BID ITEM	DESCRIPTION	UNIT	QTY
1.	440.41000	INSTALL IRRIGATION CONTROLLER ASSEMBLY SYSTEM PER DETAILS 1,2, SHEET IR502	EA	0
2.	440.60030	INSTALL PIPE-SCHEDULE 40-1" PER DETAIL 3, SHEET IR501	LF	0
3.	440.60060	INSTALL PIPE-SCHEDULE 40-2" PER DETAIL 3, SHEET IR501	LF	360
4.	440.62040	INSTALL SLEEVE-PIPE-SCHEDULE 40-4" PER DETAIL 2,SHEET IR501	LF	180
5.	440.71060	INSTALL GATE VALVE ASSEMBLY-2" PER DETAIL 7, SHEET IR501	EA	0
6.	440.72200	INSTALL DRIP EMITTER ASSEMBLY-MULTI OUTLET PER DETAILS 4,5,9, SHEET IR501	EA	0
7.	440.72320	INSTALL DRIP LATERAL FLUSH CAP ASSEMBLY PER DETAIL 6, SHT. IR501	EA	0
8.	440.73100	INSTALL FLOW SENSOR ASSEMBLY 1" PER DETAIL 5, SHEET IR502	EA	0
9.	440.74200	INSTALL MASTER VALVE ASSEMBLY 1½" PER DETAIL 5, SHEET IR502	EA	0
10.	440.76100	INSTALL REMOTE CONTROL VALVE, DRIP-1" PER DETAIL 1,SHEET IR501	EA	0
11.	440.91000	INSTALL SOLAR POWER ASSEMBLY COMPLETE PER DETAIL 3, SHEET IR502	EA	0
12.	632.01000	INSTALL REDUCED PRESSURE BACKFLOW UNIT, CONCRETE PAD, AND ENCLOSURE PER DETAIL 5/IR502	EA	0
13.		INSTALL SPARE WIRES FROM CONTROLLER TO STATION #1 (±2,450') AND TO #11 (±1,800') AS FOLLOWS: (1)#10 COMMON, (2) #12 RED, TOTAL (±12,750')		



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Tel. 480.687.6100
www.stantec.com

IRRIGATION PLAN 6

DESIGNED BY: CB

DRAWN BY: CB

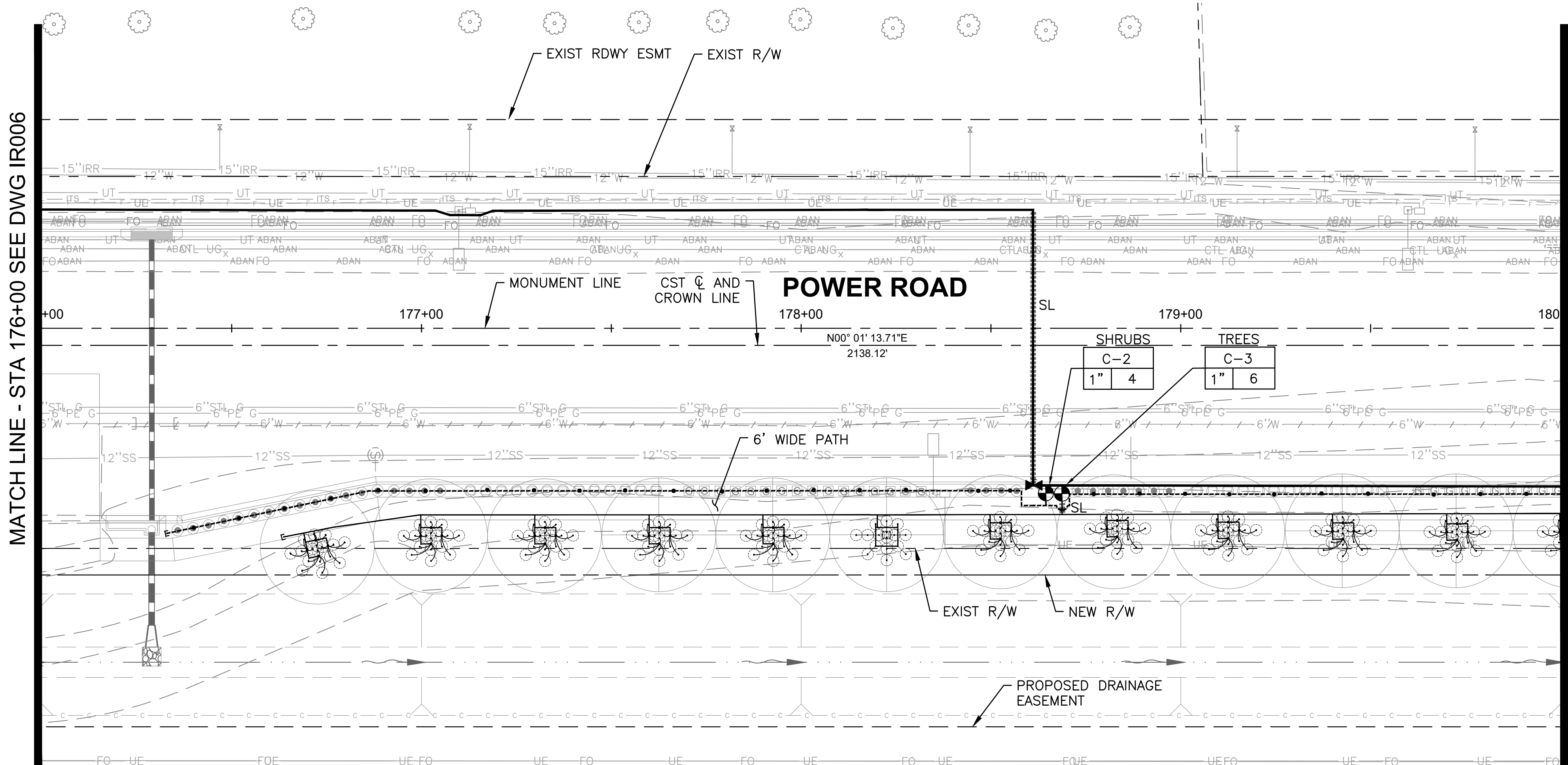
CIP PROJ NO. A1405

DRAWING NO. IR006

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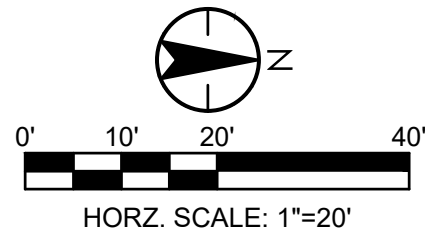
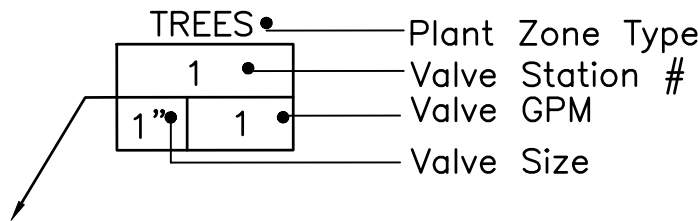
PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

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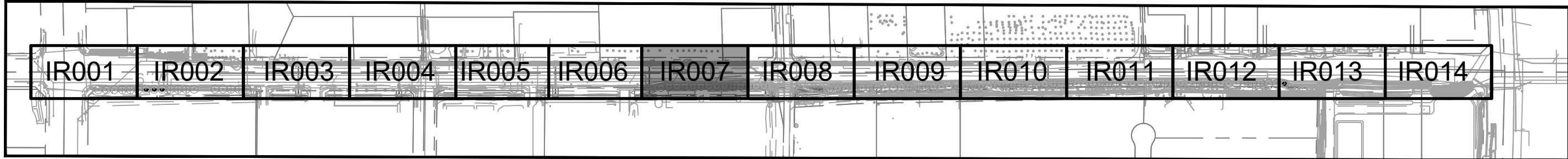


IRRIGATION SCHEDULE							
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET
	DRIP VALVE ASSEMBLY: 1" RAINBIRD PEB SERIES VALVE, BRONZE BALL VALVE AND UNIONS WITH: * FLOWS <u>UNDER</u> 5.0 GPM: INSTALL 3/4" RAINBIRD PRF-075-RBY IN-LINE PRESSURE REGULATING FILTER. * FLOWS <u>OVER</u> 5.0 GPM: INSTALL 1" PRB-QKCHK-100 COMBO QUICKCHECK/PRESSURE REGULATING BASKET FILTER.	1,8	IR501		FLOW SENSOR: WEATHERMATIC SLFSI-T10	5	IR502
					SOLAR PANEL ASSEMBLY W/WEATHER STATION AND POLE: WEATHERMATIC SLSOLAR-48	3	IR502
					MANUAL BRONZE GATE VALVE (NIBCO T-113-K NON-RISING STEM)-LINE SIZE	7	IR501
					DRIP LATERAL FLUSH CAP ASSEMBLY; INCLUDES VALVE BOX	6	IR501
					(SHRUB) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	WATER METER-SEE CIVIL UTILITY PLANS	-	-		(TREE) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	FEBCO LF825YA OR EQ. REDUCED PRESSURE PRINCIPAL ASSEMBLY (RPPA): INSTALL IN GUARDSHACK GS-4 ENCLOSURE (VERIFY SIZE TO RPPA ORDERED)	4	IR502		IRRIGATION MAINLINE: 2" PVC SCHEDULE 40 PIPE	2,3	IR501
	IRRIGATION CONTROLLER: WEATHERMATIC SMARTLINE #SL4800SLR -1YR-BDL-FLOW (INCLUDES: #SLPED-ENC SS PEDESTAL, #SLW1 WIRELESS WEATHER STATION AND #SL-AIRCARD)	1,2	IR502		SLEEVE (SL): PVC SCHEDULE 40 PIPE: INSTALL (1) 4" SL FOR CONTROL WIRE BUNDLED WITH (1) 4" SL FOR MAINLINE UNDER PAVEMENTS. INSTALL (1) SEPARATE 4" SL FOR LATERAL PIPES-(1) PIPE PER SLEEVE	2	IR501
	MASTER VALVE: GRISWOLD DWS-150 BRASS 1.5" STRAIGHT (NORMALLY CLOSED) FLOW RANGE: 0.1 TO 30 GPM	5	IR502		SEE EMITTER CHART, SCHEDULE, AND DETAILS	4,5,9	IR501

VALVE CALLOUT



SHEET KEYMAP



IRRIGATION CONSTRUCTION NOTES (TYP)				
ITEM	BID ITEM	DESCRIPTION	UNIT	QTY
1.	440.41000	INSTALL IRRIGATION CONTROLLER ASSEMBLY SYSTEM PER DETAILS 1,2, SHEET IR502	EA	0
2.	440.60030	INSTALL PIPE-SCHEDULE 40-1" PER DETAIL 3, SHEET IR501	LF	980
3.	440.60060	INSTALL PIPE-SCHEDULE 40-2" PER DETAIL 3, SHEET IR501	LF	480
4.	440.62040	INSTALL SLEEVE-PIPE-SCHEDULE 40-4" PER DETAIL 2,SHEET IR501	LF	170
5.	440.71060	INSTALL GATE VALVE ASSEMBLY-2" PER DETAIL 7, SHEET IR501	EA	1
6.	440.72200	INSTALL DRIP EMITTER ASSEMBLY- MULTI OUTLET PER DETAILS 4,5,9, SHEET IR501	EA	72
7.	440.72320	INSTALL DRIP LATERAL FLUSH CAP ASSEMBLY PER DETAIL 6, SHT. IR501	EA	0
8.	440.73100	INSTALL FLOW SENSOR ASSEMBLY 1" PER DETAIL 5, SHEET IR502	EA	0
9.	440.74200	INSTALL MASTER VALVE ASSEMBLY 1½" PER DETAIL 5, SHEET IR502	EA	0
10.	440.76100	INSTALL REMOTE CONTROL VALVE, DRIP-1" PER DETAIL 1,SHEET IR501	EA	2
11.	440.91000	INSTALL SOLAR POWER ASSEMBLY COMPLETE PER DETAIL 3, SHEET IR502	EA	0
12.	632.01000	INSTALL REDUCED PRESSURE BACKFLOW UNIT, CONCRETE PAD, AND ENCLOSURE PER DETAIL 5/IR502	EA	0
13.		INSTALL SPARE WIRES FROM CONTROLLER TO STATION #1 (±2,450') AND TO #11 (±1,800') AS FOLLOWS: (1)#10 COMMON, (2) #12 RED, TOTAL (±12,750')		

POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS

Stantec

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Chandler, Arizona 85226
Tel. 480.687.6100
www.stantec.com

IRRIGATION PLAN 7

DESIGNED BY CB

DRAWN BY CB

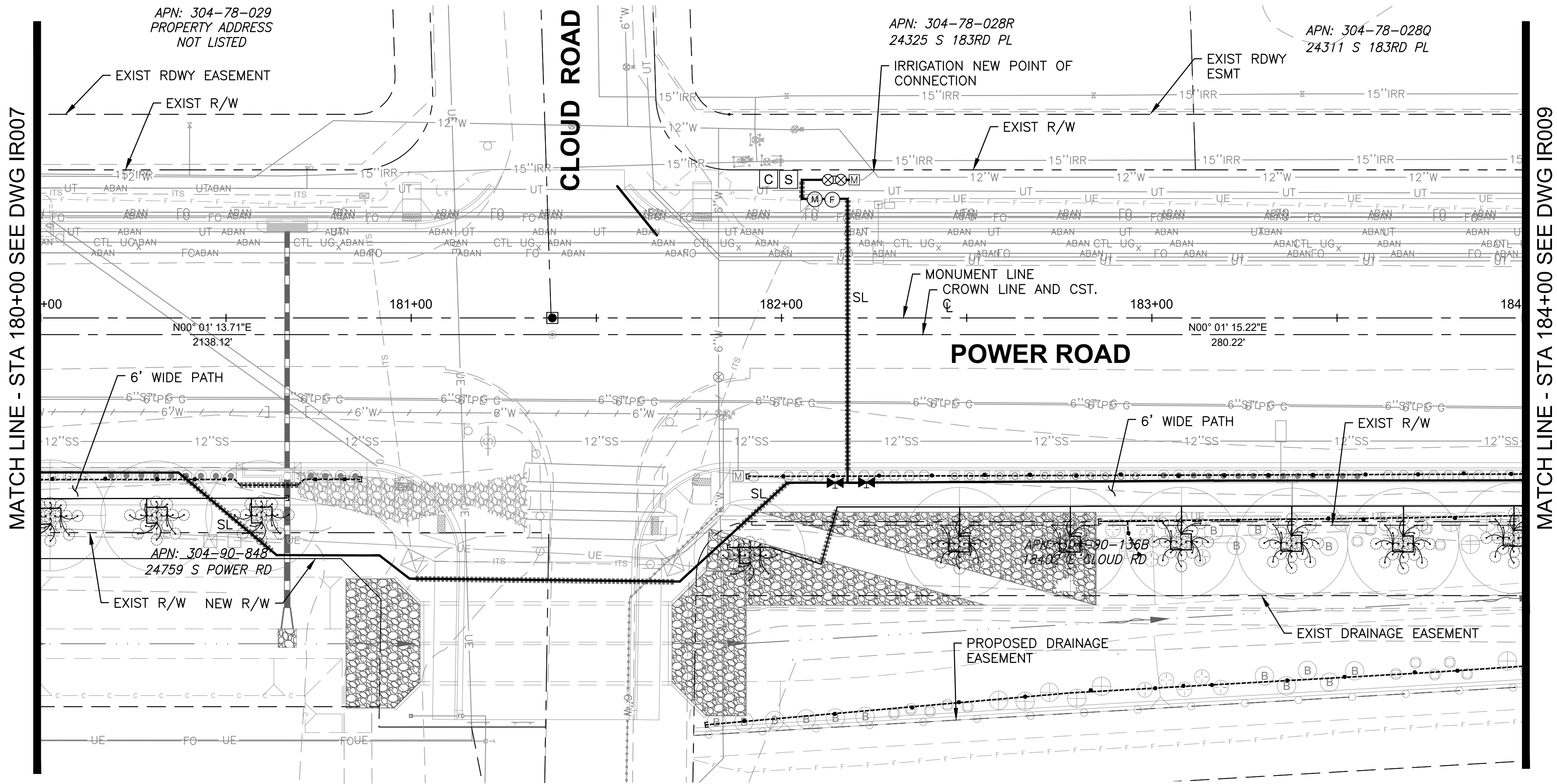
CIP PROJ NO. A1405

DRAWING NO. IR007

SHEET 105 OF 133

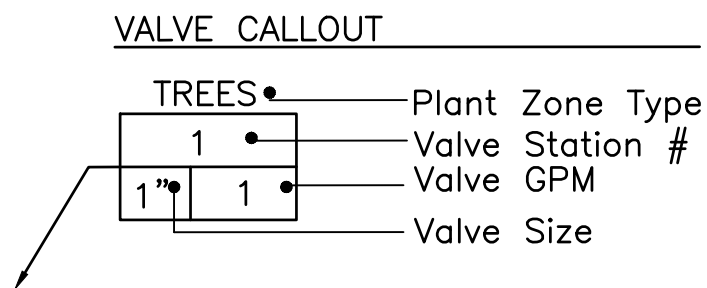
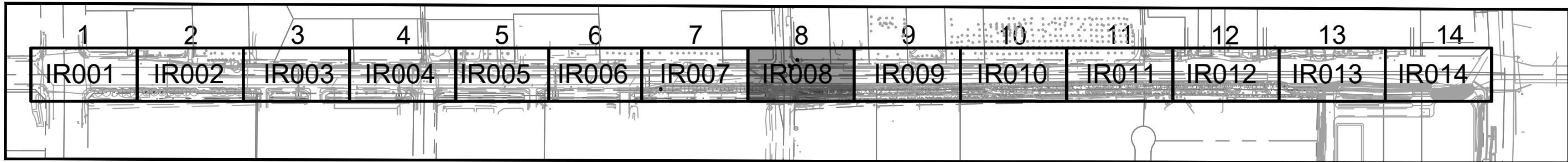
PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

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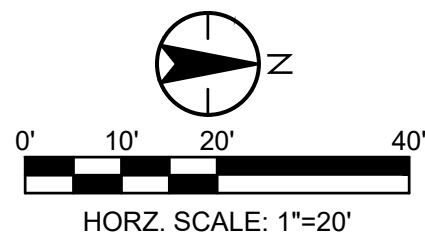


IRRIGATION SCHEDULE							
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET
	DRIP VALVE ASSEMBLY: 1" RAINBIRD PEB SERIES VALVE, BRONZE BALL VALVE AND UNIONS WITH: * FLOWS UNDER 5.0 GPM: INSTALL 3/4" RAINBIRD PRF-075-RBY IN-LINE PRESSURE REGULATING FILTER. * FLOWS OVER 5.0 GPM: INSTALL 1" PRB-QKCHK-100 COMBO QUICKCHECK/PRESSURE REGULATING BASKET FILTER.	1,8	IR501		FLOW SENSOR: WEATHERMATIC SLFSI-T10	5	IR502
					SOLAR PANEL ASSEMBLY W/WEATHER STATION AND POLE: WEATHERMATIC SLSOLAR-48	3	IR502
					MANUAL BRONZE GATE VALVE (NIBCO T-113-K NON-RISING STEM)-LINE SIZE	7	IR501
					DRIP LATERAL FLUSH CAP ASSEMBLY; INCLUDES VALVE BOX	6	IR501
				-----	(SHRUB) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	WATER METER-SEE CIVIL UTILITY PLANS	-	-	=====	(TREE) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	FEBCO LF825YA OR EQ. REDUCED PRESSURE PRINCIPAL ASSEMBLY (RPPA): INSTALL IN GUARDSHACK GS-4 ENCLOSURE (VERIFY SIZE TO RPPA ORDERED)	4	IR502	=====	IRRIGATION MAINLINE: 2" PVC SCHEDULE 40 PIPE	2,3	IR501
	IRRIGATION CONTROLLER: WEATHERMATIC SMARTLINE #SL4800SLR -1YR-BDL-FLOW (INCLUDES: #SLPED-ENC SS PEDESTAL, #SLW1 WIRELESS WEATHER STATION AND #SL-AIRCARD)	1,2	IR502		SLEEVE (SL): PVC SCHEDULE 40 PIPE: INSTALL (1) 4" SL FOR CONTROL WIRE BUNDLED WITH (1) 4" SL FOR MAINLINE UNDER PAVEMENTS. INSTALL (1) SEPARATE 4" SL FOR LATERAL PIPES-(1) PIPE PER SLEEVE	2	IR501
	MASTER VALVE: GRISWOLD DWS-150 BRASS 1.5" STRAIGHT (NORMALLY CLOSED) FLOW RANGE: 0.1 TO 30 GPM	5	IR502	EMITTERS	SEE EMITTER CHART, SCHEDULE, AND DETAILS	4,5,9	IR501

SHEET KEYMAP



IRRIGATION CONSTRUCTION NOTES (TYP)				
ITEM	BID ITEM	DESCRIPTION	UNIT	QTY
1.	440.41000	INSTALL IRRIGATION CONTROLLER ASSEMBLY SYSTEM PER DETAILS 1,2, SHEET IR502	EA	1
2.	440.60030	INSTALL PIPE-SCHEDULE 40-1" PER DETAIL 3, SHEET IR501	LF	1,240
3.	440.60060	INSTALL PIPE-SCHEDULE 40-2" PER DETAIL 3, SHEET IR501	LF	520
4.	440.62040	INSTALL SLEEVE-PIPE-SCHEDULE 40-4" PER DETAIL 2,SHEET IR501	LF	745
5.	440.71060	INSTALL GATE VALVE ASSEMBLY-2" PER DETAIL 7, SHEET IR501	EA	2
6.	440.72200	INSTALL DRIP EMITTER ASSEMBLY-MULTI OUTLET PER DETAILS 4,5,9, SHEET IR501	EA	82
7.	440.72320	INSTALL DRIP LATERAL FLUSH CAP ASSEMBLY PER DETAIL 6, SHT. IR501	EA	6
8.	440.73100	INSTALL FLOW SENSOR ASSEMBLY 1" PER DETAIL 5, SHEET IR502	EA	1
9.	440.74200	INSTALL MASTER VALVE ASSEMBLY 1½" PER DETAIL 5, SHEET IR502	EA	1
10.	440.76100	INSTALL REMOTE CONTROL VALVE, DRIP-1" PER DETAIL 1,SHEET IR501	EA	0
11.	440.91000	INSTALL SOLAR POWER ASSEMBLY COMPLETE PER DETAIL 3, SHEET IR502	EA	1
12.	632.01000	INSTALL REDUCED PRESSURE BACKFLOW UNIT, CONCRETE PAD, AND ENCLOSURE PER DETAIL 5/IR502	EA	1
13.	INSTALL SPARE WIRES FROM CONTROLLER TO STATION #1 (±2,450') AND TO #11 (±1,800') AS FOLLOWS: (1)#10 COMMON, (2) #12 RED, TOTAL (±12,750')			



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TOWN OF QUEEN CREEK

POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS

Stantec
3133 West Frye Road
Chandler, Arizona 85226
Tel. 480.687.6100
www.stantec.com

IRRIGATION PLAN 8

DESIGNED BY: CB

DRAWN BY: CB

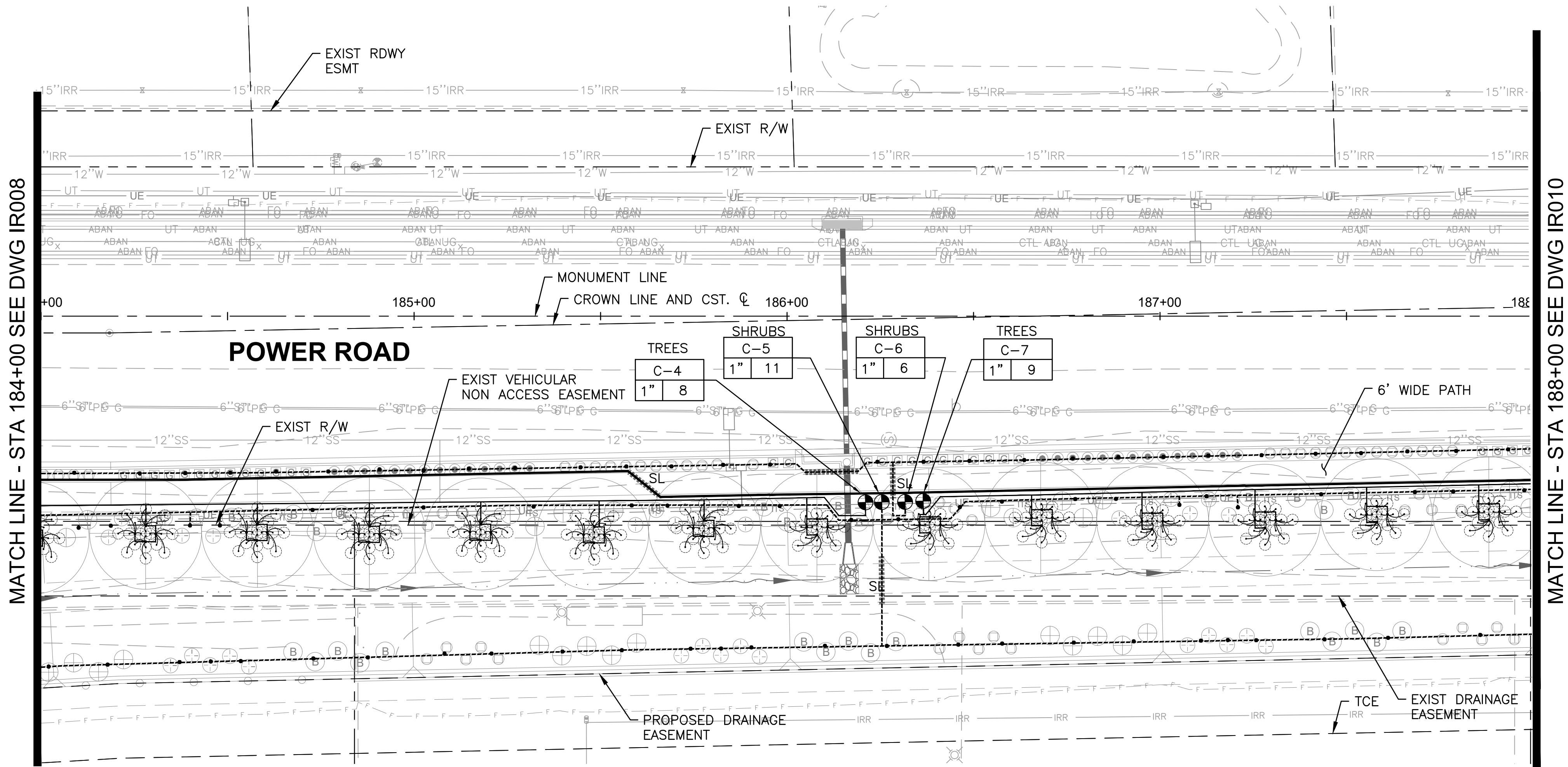
CIP PROJ NO. A1405

DRAWING NO. IR008

SHEET 106 OF 133

PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

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IRRIGATION CONSTRUCTION NOTES (TYP)				
ITEM	BID ITEM	DESCRIPTION	UNIT	QTY
1.	440.41000	INSTALL IRRIGATION CONTROLLER ASSEMBLY SYSTEM PER DETAILS 1,2, SHEET IR502	EA	1
2.	440.60030	INSTALL PIPE-SCHEDULE 40-1" PER DETAIL 3, SHEET IR501	LF	1,240
3.	440.60060	INSTALL PIPE-SCHEDULE 40-2" PER DETAIL 3, SHEET IR501	LF	520
4.	440.62040	INSTALL SLEEVE-PIPE-SCHEDULE 40-4" PER DETAIL 2,SHEET IR501	LF	745
5.	440.71060	INSTALL GATE VALVE ASSEMBLY-2" PER DETAIL 7, SHEET IR501	EA	2
6.	440.72200	INSTALL DRIP EMITTER ASSEMBLY-MULTI OUTLET PER DETAILS 4,5,9, SHEET IR501	EA	82
7.	440.72320	INSTALL DRIP LATERAL FLUSH CAP ASSEMBLY PER DETAIL 6, SHT. IR501	EA	6
8.	440.73100	INSTALL FLOW SENSOR ASSEMBLY 1" PER DETAIL 5, SHEET IR502	EA	1
9.	440.74200	INSTALL MASTER VALVE ASSEMBLY 1½" PER DETAIL 5, SHEET IR502	EA	1
10.	440.76100	INSTALL REMOTE CONTROL VALVE, DRIP-1" PER DETAIL 1,SHEET IR501	EA	0
11.	440.91000	INSTALL SOLAR POWER ASSEMBLY COMPLETE PER DETAIL 3, SHEET IR502	EA	1
12.	632.01000	INSTALL REDUCED PRESSURE BACKFLOW UNIT, CONCRETE PAD, AND ENCLOSURE PER DETAIL 5/IR502	EA	1
13.		INSTALL SPARE WIRES FROM CONTROLLER TO STATION #1 (±2,450') AND TO #11 (±1,800') AS FOLLOWS: (1)#10 COMMON, (2) #12 RED, TOTAL (±12,750')		



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TOWN OF QUEEN CREEK

Stantec

POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS

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Chandler, Arizona 85226
Tel. 480.687.6100
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IRRIGATION PLAN 9			
DESIGNED BY	CB	CIP PROJ NO. A1405	
DRAWN BY	CB		
DRAWING NO. IR009		SHEET 107 OF 133	

IRRIGATION SCHEDULE							
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET
	DRIP VALVE ASSEMBLY: 1" RAINBIRD PEB SERIES VALVE, BRONZE BALL VALVE AND UNIONS WITH:	1,8	IR501		FLOW SENSOR: WEATHERMATIC SLFSI-T10	5	IR502
	* FLOWS UNDER 5.0 GPM: INSTALL 3/4" RAINBIRD PRF-075-RBY IN-LINE PRESSURE REGULATING FILTER.				SOLAR PANEL ASSEMBLY W/WEATHER STATION AND POLE: WEATHERMATIC SLSOLAR-48	3	IR502
	* FLOWS OVER 5.0 GPM: INSTALL 1" PRB-QKCHK-100 COMBO QUICKCHECK/PRESSURE REGULATING BASKET FILTER.				MANUAL BRONZE GATE VALVE (NIBCO T-113-K NON-RISING STEM)-LINE SIZE	7	IR501
					DRIP LATERAL FLUSH CAP ASSEMBLY; INCLUDES VALVE BOX	6	IR501
					(SHRUB) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	WATER METER-SEE CIVIL UTILITY PLANS	-	-		(TREE) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	FEBCO LF825YA OR EQ. REDUCED PRESSURE PRINCIPAL ASSEMBLY (RPPA): INSTALL IN GUARDSHACK GS-4 ENCLOSURE (VERIFY SIZE TO RPPA ORDERED)	4	IR502		IRRIGATION MAINLINE: 2" PVC SCHEDULE 40 PIPE	2,3	IR501
	IRRIGATION CONTROLLER: WEATHERMATIC SMARTLINE #SL4800SLR -1YR-BDL-FLOW (INCLUDES: #SLPED-ENC SS PEDESTAL, #SLW1 WIRELESS WEATHER STATION AND #SL-AIRCARD)	1,2	IR502		SLEEVE (SL): PVC SCHEDULE 40 PIPE: INSTALL (1) 4" SL FOR CONTROL WIRE BUNDLED WITH (1) 4" SL FOR MAINLINE UNDER PAVEMENTS. INSTALL (1) SEPARATE 4" SL FOR LATERAL PIPES-(1) PIPE PER SLEEVE	2	IR501
	MASTER VALVE: GRISWOLD DWS-150 BRASS 1.5" STRAIGHT (NORMALLY CLOSED) FLOW RANGE: 0.1 TO 30 GPM	5	IR502		SEE EMITTER CHART, SCHEDULE, AND DETAILS	4,5,9	IR501

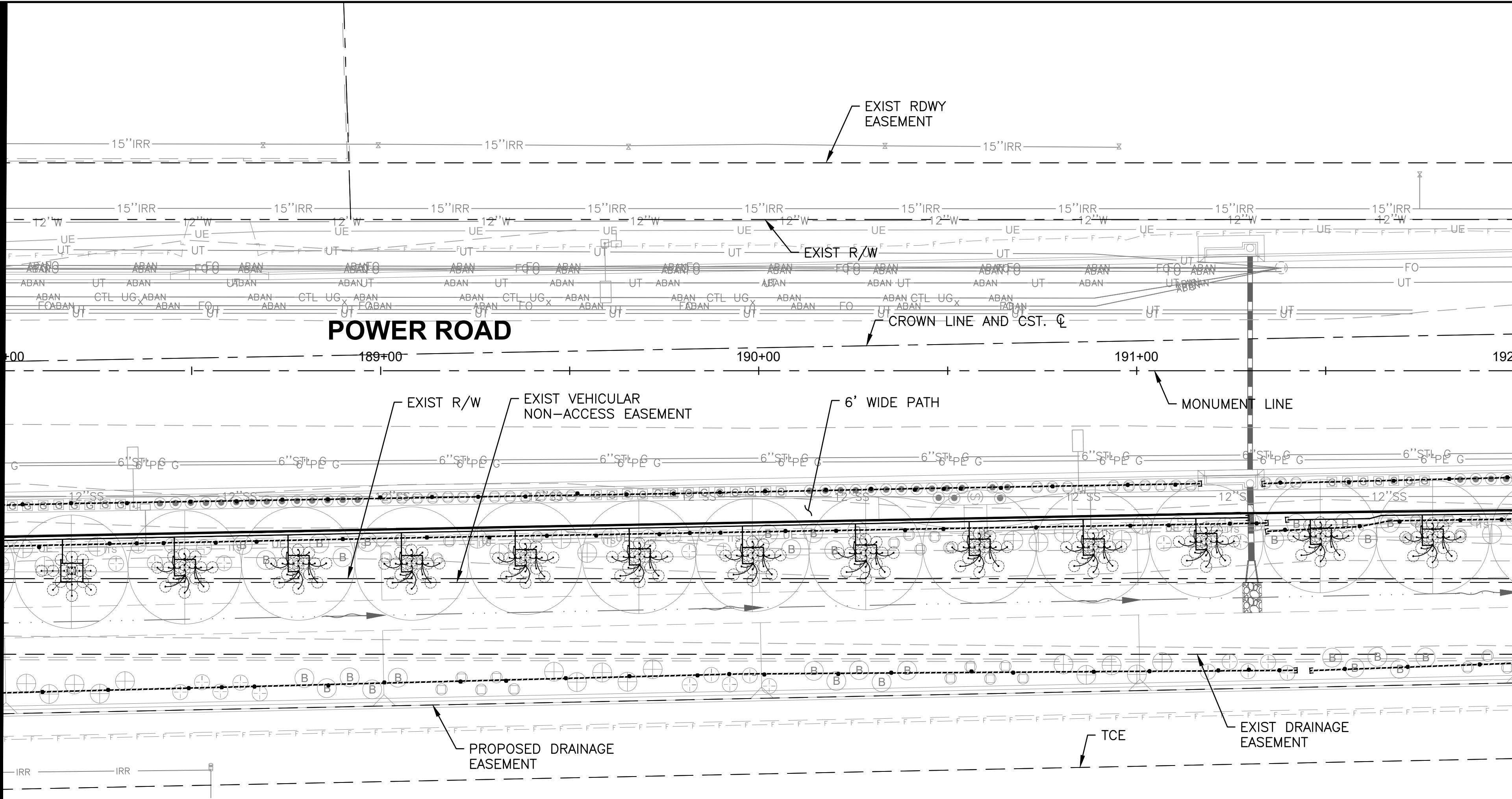
VALVE CALLOUT

SHEET KEYMAP

PROJECT NO. A1405, POWER ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

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MATCH LINE - STA 188+00 SEE DWG IR009



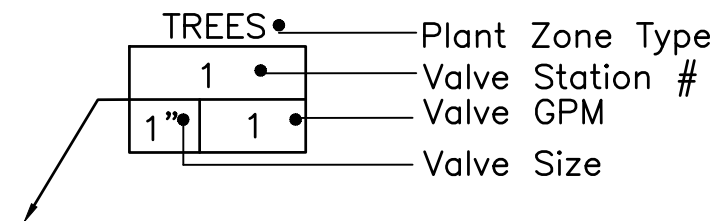
MATCH LINE - STA 192+00 SEE DWG IR011

IRRIGATION SCHEDULE							
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET
	DRIP VALVE ASSEMBLY: 1" RAINBIRD PEB SERIES VALVE, BRONZE BALL VALVE AND UNIONS WITH: * FLOWS UNDER 5.0 GPM: INSTALL 3/4" RAINBIRD PRF-075-RBY IN-LINE PRESSURE REGULATING FILTER. * FLOWS OVER 5.0 GPM: INSTALL 1" PRB-QKCHK-100 COMBO QUICKCHECK/PRESSURE REGULATING BASKET FILTER.	1,8	IR501		FLOW SENSOR: WEATHERMATIC SLFSI-T10	5	IR502
					SOLAR PANEL ASSEMBLY W/WEATHER STATION AND POLE: WEATHERMATIC SLSOLAR-48	3	IR502
					MANUAL BRONZE GATE VALVE (NIBCO T-113-K NON-RISING STEM)-LINE SIZE	7	IR501
					DRIP LATERAL FLUSH CAP ASSEMBLY; INCLUDES VALVE BOX	6	IR501
					(SHRUB) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	WATER METER-SEE CIVIL UTILITY PLANS	-	-		(TREE) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	FEBCO LF825YA OR EQ. REDUCED PRESSURE PRINCIPAL ASSEMBLY (RPPA): INSTALL IN GUARDSHACK GS-4 ENCLOSURE (VERIFY SIZE TO RPPA ORDERED)	4	IR502		IRRIGATION MAINLINE: 2" PVC SCHEDULE 40 PIPE	2,3	IR501
	IRRIGATION CONTROLLER: WEATHERMATIC SMARTLINE #SL4800SLR -1YR-BDL-FLOW (INCLUDES: #SLPED-ENC SS PEDESTAL, #SLW1 WIRELESS WEATHER STATION AND #SL-AIRCARD)	1,2	IR502		SLEEVE (SL): PVC SCHEDULE 40 PIPE: INSTALL (1) 4" SL FOR CONTROL WIRE BUNDLED WITH (1) 4" SL FOR MAINLINE UNDER PAVEMENTS. INSTALL (1) SEPARATE 4" SL FOR LATERAL PIPES-(1) PIPE PER SLEEVE	2	IR501
	MASTER VALVE: GRISWOLD DWS-150 BRASS 1.5" STRAIGHT (NORMALLY CLOSED) FLOW RANGE: 0.1 TO 30 GPM	5	IR502		SEE EMITTER CHART, SCHEDULE, AND DETAILS	4,5,9	IR501

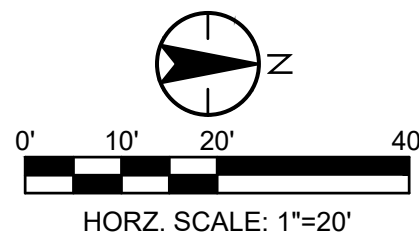
SHEET KEYMAP

1	2	3	4	5	6	7	8	9	10	11	12	13	14
IR001	IR002	IR003	IR004	IR005	IR006	IR007	IR008	IR009	IR010	IR011	IR012	IR013	IR014

VALVE CALLOUT



IRRIGATION CONSTRUCTION NOTES (TYP)				
ITEM	BID ITEM	DESCRIPTION	UNIT	QTY
1.	440.41000	INSTALL IRRIGATION CONTROLLER ASSEMBLY SYSTEM PER DETAILS 1,2, SHEET IR502	EA	0
2.	440.60030	INSTALL PIPE-SCHEDULE 40-1" PER DETAIL 3, SHEET IR501	LF	1,960
3.	440.60060	INSTALL PIPE-SCHEDULE 40-2" PER DETAIL 3, SHEET IR501	LF	410
4.	440.62040	INSTALL SLEEVE-PIPE-SCHEDULE 40-4" PER DETAIL 2,SHEET IR501	LF	0
5.	440.71060	INSTALL GATE VALVE ASSEMBLY-2" PER DETAIL 7, SHEET IR501	EA	0
6.	440.72200	INSTALL DRIP EMITTER ASSEMBLY-MULTI OUTLET PER DETAILS 4,5,9, SHEET IR501	EA	136
7.	440.72320	INSTALL DRIP LATERAL FLUSH CAP ASSEMBLY PER DETAIL 6, SHT. IR501	EA	8
8.	440.73100	INSTALL FLOW SENSOR ASSEMBLY 1" PER DETAIL 5, SHEET IR502	EA	0
9.	440.74200	INSTALL MASTER VALVE ASSEMBLY 1½" PER DETAIL 5, SHEET IR502	EA	0
10.	440.76100	INSTALL REMOTE CONTROL VALVE, DRIP-1" PER DETAIL 1,SHEET IR501	EA	0
11.	440.91000	INSTALL SOLAR POWER ASSEMBLY COMPLETE PER DETAIL 3, SHEET IR502	EA	0
12.	632.01000	INSTALL REDUCED PRESSURE BACKFLOW UNIT, CONCRETE PAD, AND ENCLOSURE PER DETAIL 5/IR502	EA	0
13.	INSTALL SPARE WIRES FROM CONTROLLER TO STATION #1 (±2,450') AND TO #11 (±1,800') AS FOLLOWS: (1)#10 COMMON, (2) #12 RED, TOTAL (±12,750')			



POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS

DESIGNED BY CB

DRAWN BY CB

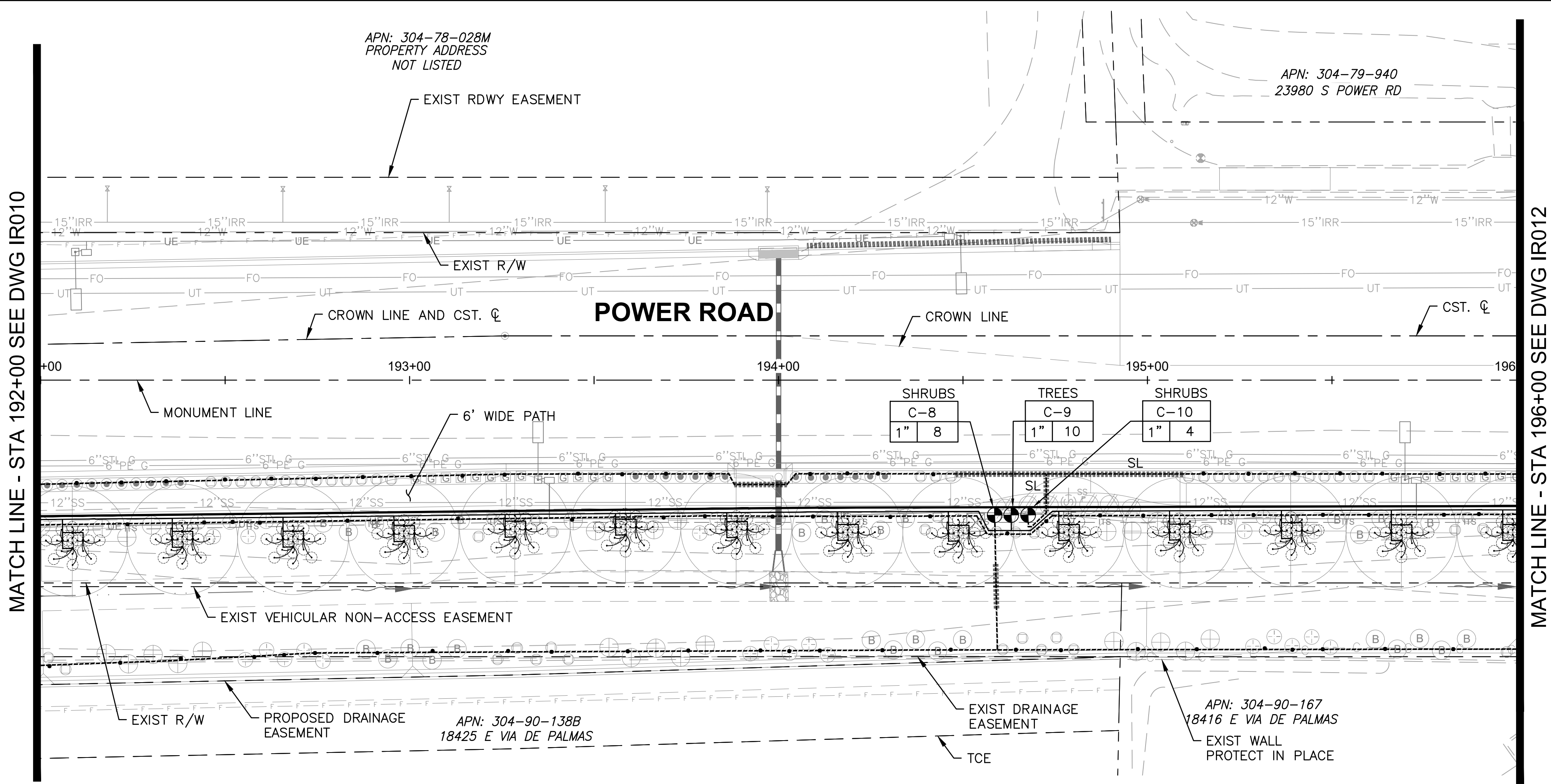
CIP PROJ NO. A1405

DRAWING NO. IR010

SHEET 108 OF 133

PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

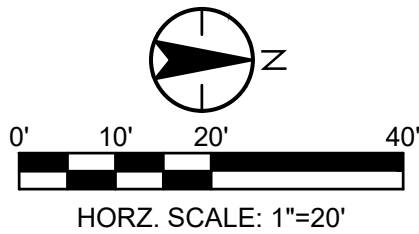
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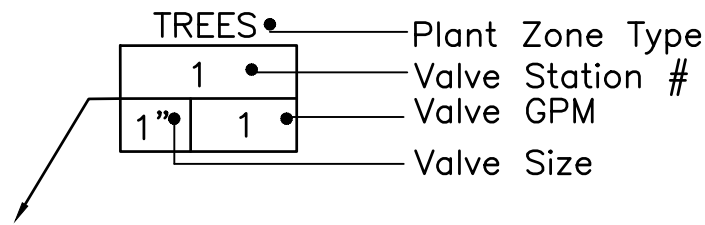
MATCH LINE - STA 196+00 SEE DWG IR012

IRRIGATION CONSTRUCTION NOTES (TYP)				
ITEM	BID ITEM	DESCRIPTION	UNIT	QTY
1.	440.41000	INSTALL IRRIGATION CONTROLLER ASSEMBLY SYSTEM PER DETAILS 1,2, SHEET IR502	EA	0
2.	440.60030	INSTALL PIPE-SCHEDULE 40-1" PER DETAIL 3, SHEET IR501	LF	2,060
3.	440.60060	INSTALL PIPE-SCHEDULE 40-2" PER DETAIL 3, SHEET IR501	LF	410
4.	440.62040	INSTALL SLEEVE-PIPE-SCHEDULE 40-4" PER DETAIL 2,SHEET IR501	LF	210
5.	440.71060	INSTALL GATE VALVE ASSEMBLY-2" PER DETAIL 7, SHEET IR501	EA	0
6.	440.72200	INSTALL DRIP EMITTER ASSEMBLY-MULTI OUTLET PER DETAILS 4,5,9, SHEET IR501	EA	130
7.	440.72320	INSTALL DRIP LATERAL FLUSH CAP ASSEMBLY PER DETAIL 6, SHT. IR501	EA	0
8.	440.73100	INSTALL FLOW SENSOR ASSEMBLY 1" PER DETAIL 5, SHEET IR502	EA	0
9.	440.74200	INSTALL MASTER VALVE ASSEMBLY 1½" PER DETAIL 5, SHEET IR502	EA	0
10.	440.76100	INSTALL REMOTE CONTROL VALVE, DRIP-1" PER DETAIL 1,SHEET IR501	EA	3
11.	440.91000	INSTALL SOLAR POWER ASSEMBLY COMPLETE PER DETAIL 3, SHEET IR502	EA	0
12.	632.01000	INSTALL REDUCED PRESSURE BACKFLOW UNIT, CONCRETE PAD, AND ENCLOSURE PER DETAIL 5/IR502	EA	0
13.	INSTALL SPARE WIRES FROM CONTROLLER TO STATION #1 (±2,450') AND TO #11 (±1,800') AS FOLLOWS: (1)#10 COMMON, (2) #12 RED, TOTAL (±12,750')			

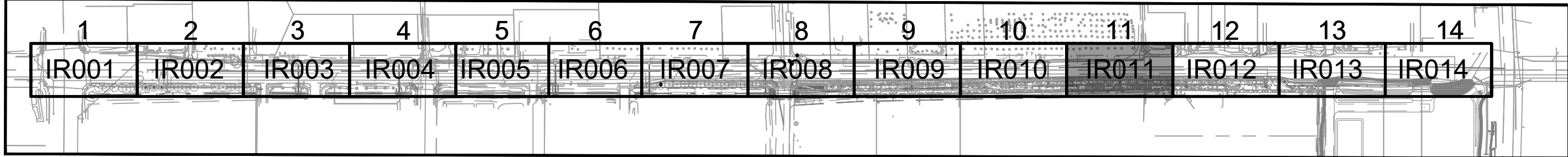
IRRIGATION SCHEDULE							
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET
	DRIP VALVE ASSEMBLY: 1" RAINBIRD PEB SERIES VALVE, BRONZE BALL VALVE AND UNIONS WITH: * FLOWS UNDER 5.0 GPM: INSTALL 3/4" RAINBIRD PRF-075-RBY IN-LINE PRESSURE REGULATING FILTER. * FLOWS OVER 5.0 GPM: INSTALL 1" PRB-QKCHK-100 COMBO QUICKCHECK/PRESSURE REGULATING BASKET FILTER.	1,8	IR501		FLOW SENSOR: WEATHERMATIC SLFSI-T10	5	IR502
					SOLAR PANEL ASSEMBLY W/WEATHER STATION AND POLE: WEATHERMATIC SLSOLAR-48	3	IR502
					MANUAL BRONZE GATE VALVE (NIBCO T-113-K NON-RISING STEM)-LINE SIZE	7	IR501
					DRIP LATERAL FLUSH CAP ASSEMBLY; INCLUDES VALVE BOX	6	IR501
	WATER METER-SEE CIVIL UTILITY PLANS	-	-		(SHRUB) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	FEBCO LF825YA OR EQ. REDUCED PRESSURE PRINCIPAL ASSEMBLY (RPPA): INSTALL IN GUARDSHACK GS-4 ENCLOSURE (VERIFY SIZE TO RPPA ORDERED)	4	IR502		(TREE) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	IRRIGATION CONTROLLER: WEATHERMATIC SMARTLINE #SL4800SLR -1YR-BDL-FLOW (INCLUDES: #SLPED-ENC SS PEDESTAL, #SLW1 WIRELESS WEATHER STATION AND #SL-AIRCARD)	1,2	IR502		IRRIGATION MAINLINE: 2" PVC SCHEDULE 40 PIPE	2,3	IR501
	MASTER VALVE: GRISWOLD DWS-150 BRASS 1.5" STRAIGHT (NORMALLY CLOSED) FLOW RANGE: 0.1 TO 30 GPM	5	IR502		SLEEVE (SL): PVC SCHEDULE 40 PIPE: INSTALL (1) 4" SL FOR CONTROL WIRE BUNDLED WITH (1) 4" SL FOR MAINLINE UNDER PAVEMENTS. INSTALL (1) SEPARATE 4" SL FOR LATERAL PIPES-(1) PIPE PER SLEEVE	2	IR501
					SEE EMITTER CHART, SCHEDULE, AND DETAILS	4,5,9	IR501



VALVE CALLOUT



SHEET KEYMAP



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POWER ROAD:
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www.stantec.com

IRRIGATION PLAN 11

DESIGNED BY CB

DRAWN BY CB

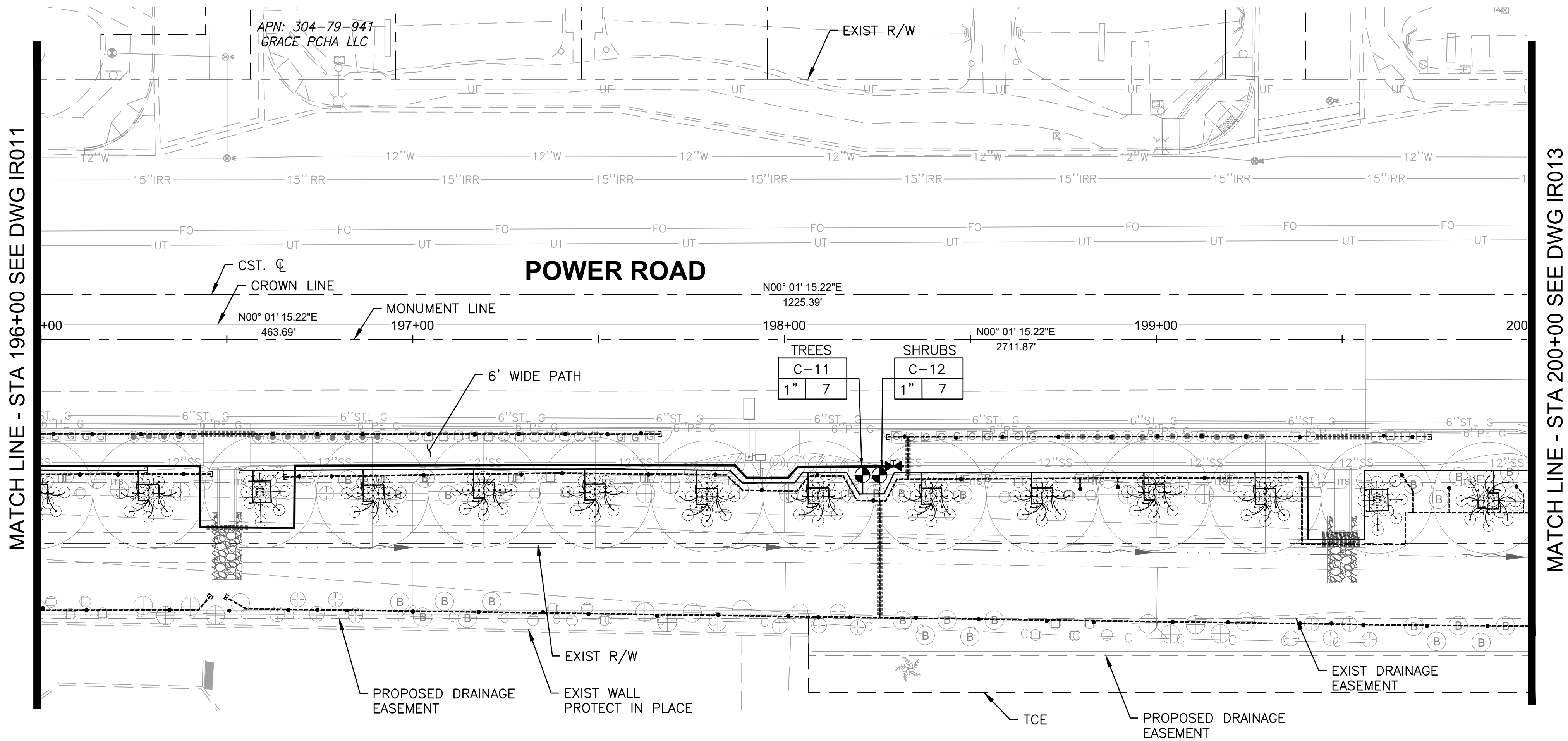
CIP PROJ NO. A1405

DRAWING NO. IR011

SHEET 109 OF 133

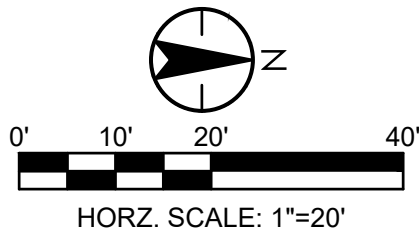
PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

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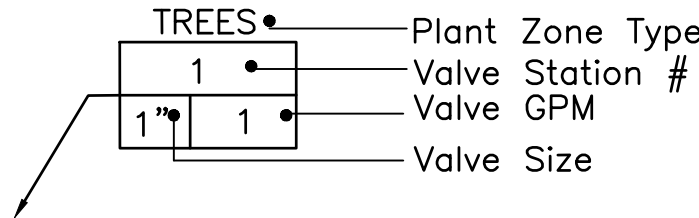


IRRIGATION CONSTRUCTION NOTES (TYP)				
ITEM	BID ITEM	DESCRIPTION	UNIT	QTY
1.	440.41000	INSTALL IRRIGATION CONTROLLER ASSEMBLY SYSTEM PER DETAILS 1,2, SHEET IR502	EA	0
2.	440.60030	INSTALL PIPE-SCHEDULE 40-1" PER DETAIL 3, SHEET IR501	LF	2,040
3.	440.60060	INSTALL PIPE-SCHEDULE 40-2" PER DETAIL 3, SHEET IR501	LF	270
4.	440.62040	INSTALL SLEEVE-PIPE-SCHEDULE 40-4" PER DETAIL 2,SHEET IR501	LF	140
5.	440.71060	INSTALL GATE VALVE ASSEMBLY-2" PER DETAIL 7, SHEET IR501	EA	1
6.	440.72200	INSTALL DRIP EMITTER ASSEMBLY-MULTI OUTLET PER DETAILS 4,5,9, SHEET IR501	EA	124
7.	440.72320	INSTALL DRIP LATERAL FLUSH CAP ASSEMBLY PER DETAIL 6, SHT. IR501	EA	9
8.	440.73100	INSTALL FLOW SENSOR ASSEMBLY 1" PER DETAIL 5, SHEET IR502	EA	0
9.	440.74200	INSTALL MASTER VALVE ASSEMBLY 1½" PER DETAIL 5, SHEET IR502	EA	0
10.	440.76100	INSTALL REMOTE CONTROL VALVE, DRIP-1" PER DETAIL 1,SHEET IR501	EA	2
11.	440.91000	INSTALL SOLAR POWER ASSEMBLY COMPLETE PER DETAIL 3, SHEET IR502	EA	0
12.	632.01000	INSTALL REDUCED PRESSURE BACKFLOW UNIT, CONCRETE PAD, AND ENCLOSURE PER DETAIL 5/IR502	EA	0
13.	INSTALL SPARE WIRES FROM CONTROLLER TO STATION #1 (±2,450') AND TO #11 (±1,800') AS FOLLOWS: (1)#10 COMMON, (2) #12 RED, TOTAL (±12,750')			

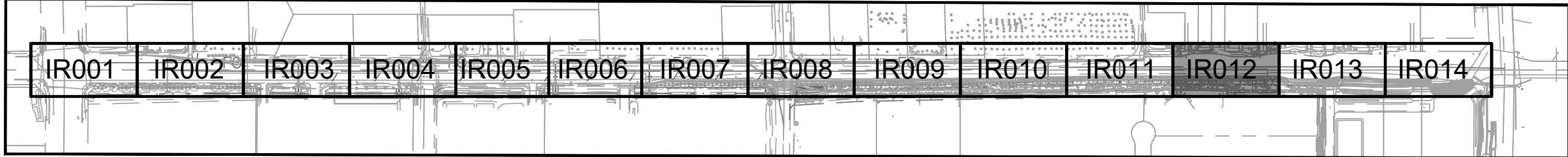
IRRIGATION SCHEDULE							
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET
	DRIP VALVE ASSEMBLY: 1" RAINBIRD PEB SERIES VALVE, BRONZE BALL VALVE AND UNIONS WITH:	1,8	IR501		FLOW SENSOR: WEATHERMATIC SLFSI-T10	5	IR502
	* FLOWS UNDER 5.0 GPM: INSTALL 3/4" RAINBIRD PRF-075-RBY IN-LINE PRESSURE REGULATING FILTER.				SOLAR PANEL ASSEMBLY W/WEATHER STATION AND POLE: WEATHERMATIC SLSOLAR-48	3	IR502
	* FLOWS OVER 5.0 GPM: INSTALL 1" PRB-QKCHK-100 COMBO QUICKCHECK/PRESSURE REGULATING BASKET FILTER.				MANUAL BRONZE GATE VALVE (NIBCO T-113-K NON-RISING STEM)-LINE SIZE	7	IR501
					DRIP LATERAL FLUSH CAP ASSEMBLY; INCLUDES VALVE BOX	6	IR501
					(SHRUB) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	WATER METER-SEE CIVIL UTILITY PLANS	-	-		(TREE) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	FEBCO LF825YA OR EQ. REDUCED PRESSURE PRINCIPAL ASSEMBLY (RPPA): INSTALL IN GUARDSHACK GS-4 ENCLOSURE (VERIFY SIZE TO RPPA ORDERED)	4	IR502		IRRIGATION MAINLINE: 2" PVC SCHEDULE 40 PIPE	2,3	IR501
	IRRIGATION CONTROLLER: WEATHERMATIC SMARTLINE #SL4800SLR -1YR-BDL-FLOW (INCLUDES: #SLPED-ENC SS PEDESTAL, #SLW1 WIRELESS WEATHER STATION AND #SL-AIRCARD)	1,2	IR502		SLEEVE (SL): PVC SCHEDULE 40 PIPE: INSTALL (1) 4" SL FOR CONTROL WIRE BUNDLED WITH (1) 4" SL FOR MAINLINE UNDER PAVEMENTS. INSTALL (1) SEPARATE 4" SL FOR LATERAL PIPES-(1) PIPE PER SLEEVE	2	IR501
	MASTER VALVE: GRISWOLD DWS-150 BRASS 1.5" STRAIGHT (NORMALLY CLOSED) FLOW RANGE: 0.1 TO 30 GPM	5	IR502		SEE EMITTER CHART, SCHEDULE, AND DETAILS	4,5,9	IR501



VALVE CALLOUT



SHEET KEYMAP



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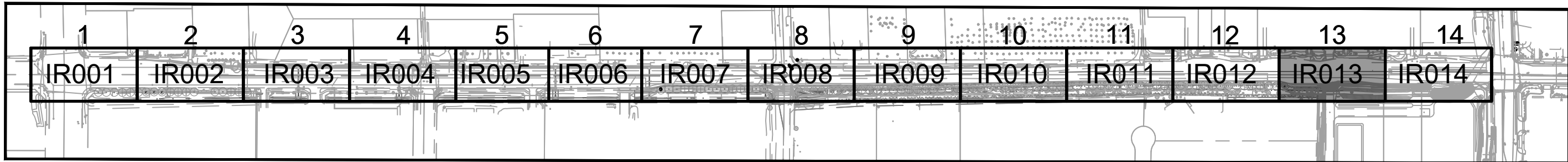
DESIGNED BY: CB
DRAWN BY: CB

CIP PROJ NO. A1405





DRAWING NO. IR012

SHEET 110 OF 133

PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

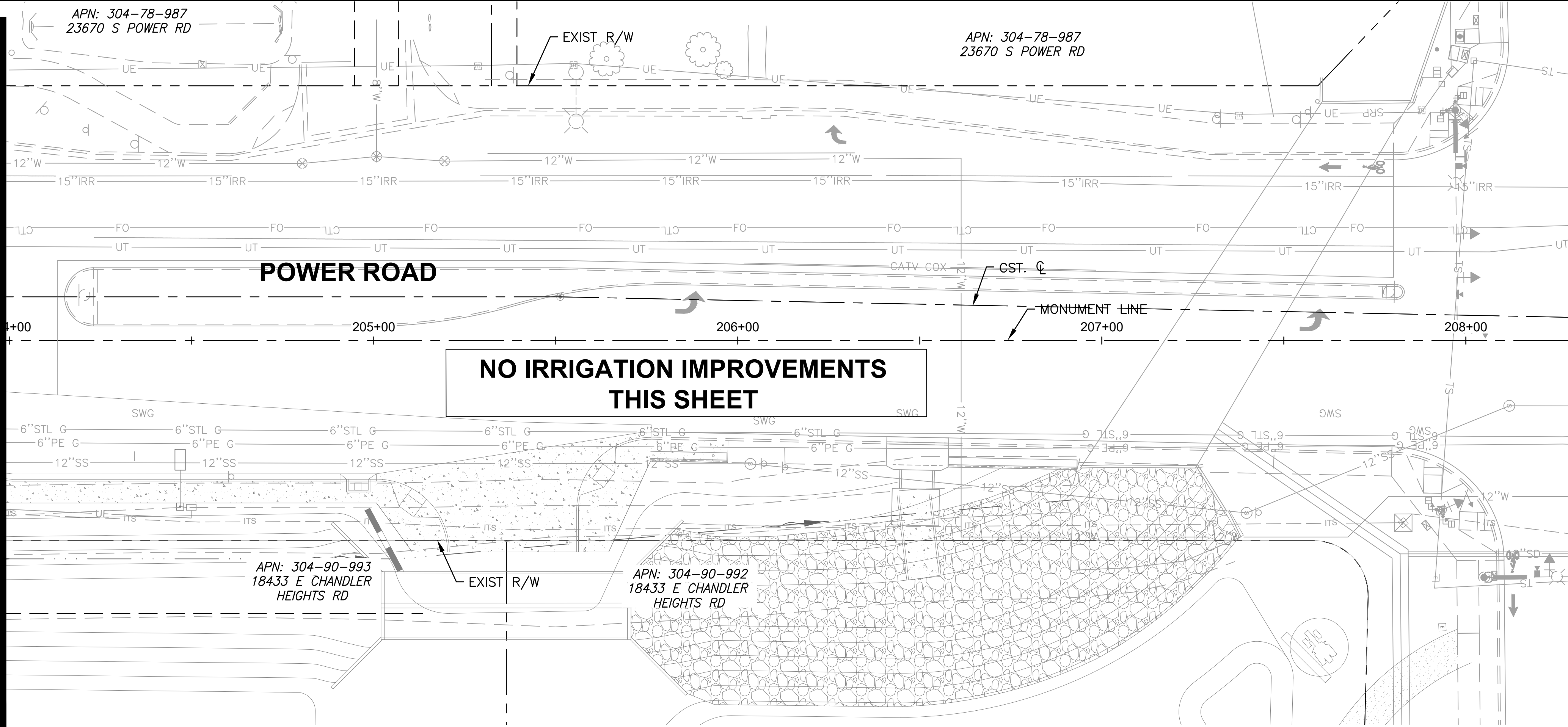


IRRIGATION CONSTRUCTION NOTES (TYP)				
ITEM	BID ITEM	DESCRIPTION	UNIT	QTY
1.	440.41000	INSTALL IRRIGATION CONTROLLER ASSEMBLY SYSTEM PER DETAILS 1,2, SHEET IR502	EA	0
2.	440.60030	INSTALL PIPE-SCHEDULE 40-1" PER DETAIL 3, SHEET IR501	LF	430
3.	440.60060	INSTALL PIPE-SCHEDULE 40-2" PER DETAIL 3, SHEET IR501	LF	0
4.	440.62040	INSTALL SLEEVE-PIPE-SCHEDULE 40-4" PER DETAIL 2,SHEET IR501	LF	0
5.	440.71060	INSTALL GATE VALVE ASSEMBLY-2" PER DETAIL 7, SHEET IR501	EA	0
6.	440.72200	INSTALL DRIP EMITTER ASSEMBLY-MULTI OUTLET PER DETAILS 4,5,9, SHEET IR501	EA	25
7.	440.72320	INSTALL DRIP LATERAL FLUSH CAP ASSEMBLY PER DETAIL 6, SHT. IR501	EA	3
8.	440.73100	INSTALL FLOW SENSOR ASSEMBLY 1" PER DETAIL 5, SHEET IR502	EA	0
9.	440.74200	INSTALL MASTER VALVE ASSEMBLY 1 $\frac{1}{2}$ " PER DETAIL 5, SHEET IR502	EA	0
10.	440.76100	INSTALL REMOTE CONTROL VALVE, DRIP-1" PER DETAIL 1,SHEET IR501	EA	0
11.	440.91000	INSTALL SOLAR POWER ASSEMBLY COMPLETE PER DETAIL 3, SHEET IR502	EA	0
12.	632.01000	INSTALL REDUCED PRESSURE BACKFLOW UNIT, CONCRETE PAD, AND ENCLOSURE PER DETAIL 5/IR502	EA	0
13.	INSTALL SPARE WIRES FROM CONTROLLER TO STATION #1 ($\pm 2,450'$) AND TO #11 ($\pm 1,800'$) AS FOLLOWS: (1)#10 COMMON, (2) #12 RED, TOTAL (+12 750')			

Contact Arizona 811 at least two full working days before you begin excavation  Call 811 or click Arizona811.com		 <h1 style="text-align: center;">TOWN OF CHANDLER</h1> <h2 style="text-align: center;">QUEN CREEK</h2>	
		<p style="text-align: center;">POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY AND DRAINAGE IMPROVEMENTS</p> <div style="display: flex; align-items: center; justify-content: center;">  <div> <h2 style="margin: 0;">Stantec</h2> <p style="margin: 0;">3133 West Frye Road Chandler, Arizona 85226 Tel. 480.687.6100 www.stantec.com</p> </div> </div>	
<h1 style="margin: 0;">IRRIGATION PLAN 13</h1>			
DESIGNED BY CB		CIP PROJ. NO. A1405	
DRAWN BY CB			
DRAWING NO. IRO13		SHEET 111 OF 133	

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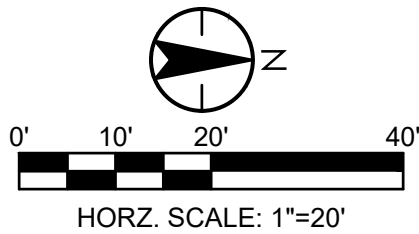
MATCH LINE - STA 200+00 SEE DWG IR013



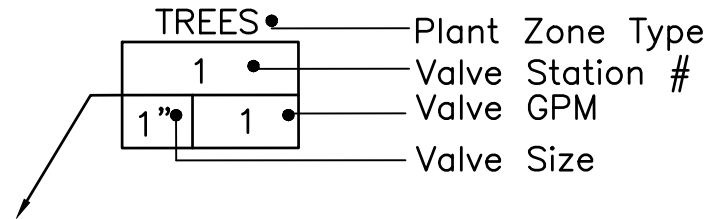
IRRIGATION CONSTRUCTION NOTES (TYP)				
ITEM	BID ITEM	DESCRIPTION	UNIT	QTY
1.	440.41000	INSTALL IRRIGATION CONTROLLER ASSEMBLY SYSTEM PER DETAILS 1,2, SHEET IR502	EA	0
2.	440.60030	INSTALL PIPE-SCHEDULE 40-1" PER DETAIL 3, SHEET IR501	LF	0
3.	440.60060	INSTALL PIPE-SCHEDULE 40-2" PER DETAIL 3, SHEET IR501	LF	0
4.	440.62040	INSTALL SLEEVE-PIPE-SCHEDULE 40-4" PER DETAIL 2,SHEET IR501	LF	0
5.	440.71060	INSTALL GATE VALVE ASSEMBLY-2" PER DETAIL 7, SHEET IR501	EA	0
6.	440.72200	INSTALL DRIP EMITTER ASSEMBLY- MULTI OUTLET PER DETAILS 4,5,9, SHEET IR501	EA	0
7.	440.72320	INSTALL DRIP LATERAL FLUSH CAP ASSEMBLY PER DETAIL 6, SHT. IR501	EA	0
8.	440.73100	INSTALL FLOW SENSOR ASSEMBLY 1" PER DETAIL 5, SHEET IR502	EA	0
9.	440.74200	INSTALL MASTER VALVE ASSEMBLY 1½" PER DETAIL 5, SHEET IR502	EA	0
10.	440.76100	INSTALL REMOTE CONTROL VALVE, DRIP-1" PER DETAIL 1,SHEET IR501	EA	0
11.	440.91000	INSTALL SOLAR POWER ASSEMBLY COMPLETE PER DETAIL 3, SHEET IR502	EA	0
12.	632.01000	INSTALL REDUCED PRESSURE BACKFLOW UNIT, CONCRETE PAD, AND ENCLOSURE PER DETAIL 5/IR502	EA	
13.	INSTALL SPARE WIRES FROM CONTROLLER TO STATION #1 (±2,450') AND TO #11 (±1,800') AS FOLLOWS: (1)#10 COMMON, (2) #12 RED, TOTAL (±12,750')			

IRRIGATION SCHEDULE

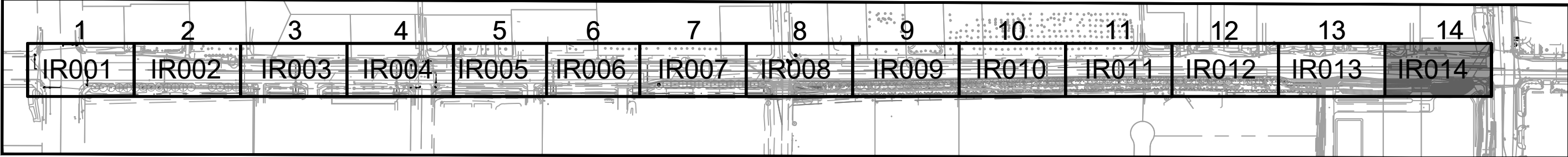
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	SHEET
	DRIP VALVE ASSEMBLY: 1" RAINBIRD PEB SERIES VALVE, BRONZE BALL VALVE AND UNIONS WITH: * FLOWS UNDER 5.0 GPM: INSTALL 3/4" RAINBIRD PRF-075-RBY IN-LINE PRESSURE REGULATING FILTER. * FLOWS OVER 5.0 GPM: INSTALL 1" PRB-QKCHK-100 COMBO QUICKCHECK/PRESSURE REGULATING BASKET FILTER.	1,8	IR501		FLOW SENSOR: WEATHERMATIC SLFSI-T10	5	IR502
					SOLAR PANEL ASSEMBLY W/WEATHER STATION AND POLE: WEATHERMATIC SLSOLAR-48	3	IR502
					MANUAL BRONZE GATE VALVE (NIBCO T-113-K NON-RISING STEM)-LINE SIZE	7	IR501
					DRIP LATERAL FLUSH CAP ASSEMBLY; INCLUDES VALVE BOX	6	IR501
					(SHRUB) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	WATER METER-SEE CIVIL UTILITY PLANS	-	-		(TREE) LATERAL LINE: 1" PVC SCHEDULE 40 PIPE EXCEPT WHERE NOTED	2,3	IR501
	FEBCO LF825YA OR EQ. REDUCED PRESSURE PRINCIPAL ASSEMBLY (RPPA): INSTALL IN GUARDSHACK GS-4 ENCLOSURE (VERIFY SIZE TO RPPA ORDERED)	4	IR502		IRRIGATION MAINLINE: 2" PVC SCHEDULE 40 PIPE	2,3	IR501
	IRRIGATION CONTROLLER: WEATHERMATIC SMARTLINE #SL4800SLR -1YR-BDL-FLOW (INCLUDES: #SLPED-ENC SS PEDESTAL, #SLW1 WIRELESS WEATHER STATION AND #SL-AIRCARD)	1,2	IR502		SLEEVE (SL): PVC SCHEDULE 40 PIPE: INSTALL (1) 4" SL FOR CONTROL WIRE BUNDLED WITH (1) 4" SL FOR MAINLINE UNDER PAVEMENTS. INSTALL (1) SEPARATE 4" SL FOR LATERAL PIPES-(1) PIPE PER SLEEVE	2	IR501
	MASTER VALVE: GRISWOLD DWS-150 BRASS 1.5" STRAIGHT (NORMALLY CLOSED) FLOW RANGE: 0.1 TO 30 GPM	5	IR502		SEE EMITTER CHART, SCHEDULE, AND DETAILS	4,5,9	IR501



VALVE CALLOUT



SHEET KEYMAP



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TOWN OF
QUEEN CREEK

126634
CARY K.
BAIRD

POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS

Stantec

3133 West Frye Road
Chandler, Arizona 85226
Tel. 480.687.6100
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DESIGNED BY: CB

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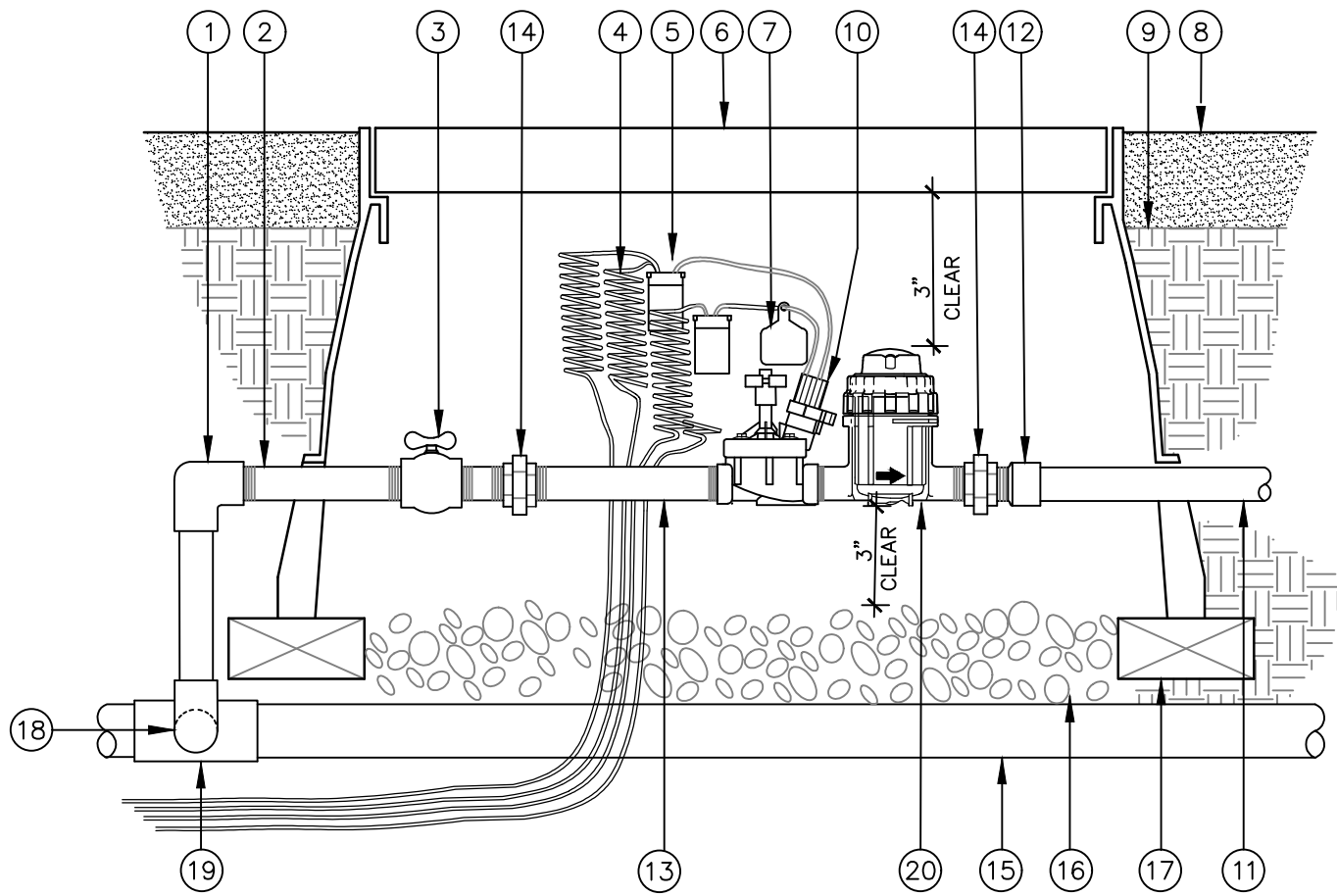
CIP PROJ NO. A1405

DRAWING NO. IR014

SHEET 112 OF 133

PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

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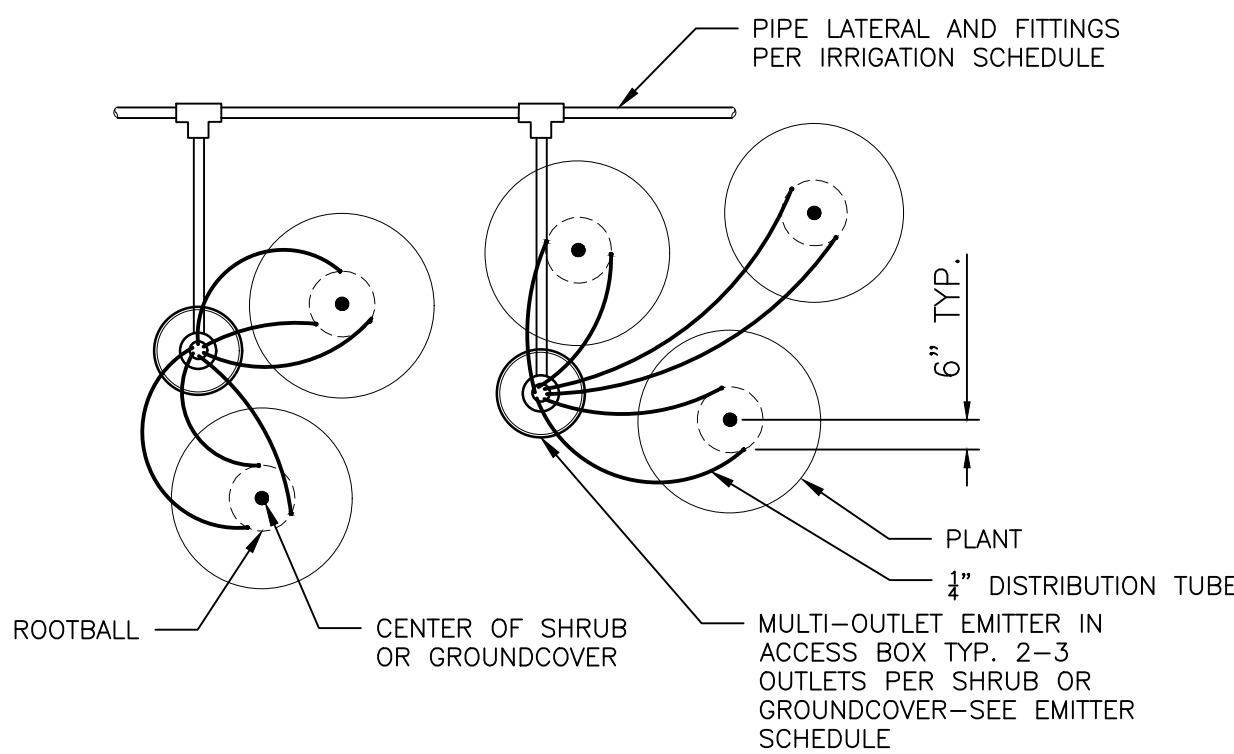


1 DRIP VALVE ASSEMBLY

IR501 SCALE: N.T.S

NOTES:

1. LENGTH OF DISTRIBUTION TUBING SHALL NOT EXCEED 10- FEET. REFER TO LOCAL JURISDICTIONAL REQUIREMENTS. MAXIMUM ALLOWBLE LENGTH MAY BE LESS.
2. LAYOUT DISTRIBUTION TUBING AS SHOWN AND LOCATE DISCHARGE POINT 2-INCHES ABOVE FINISHED GRADE.
3. *** IN LOCATIONS WHERE TREE AND SHRUBS OVERLAP, DELETE DISTRIBUTION TUBING TO TREE AT OR NEAR SHRUB LOCATION.



BID ITEM NOTE: ITEM 440.72200 MULTI-PORT EMITTER WORK INCLUDES MULTI-PORT EMITTER, DISTRIBUTION TUBING, EMITTER ACCESS BOX, FITTINGS, CONNECTION TO LATERAL PIPE, EXCAVATION AND BACKFILL-COMPLETE. (EXCLUDES LATERAL PIPE)

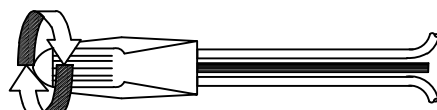
4 SHRUB DRIP EMITTERS - LAYOUT

IR501 SCALE: N.T.S

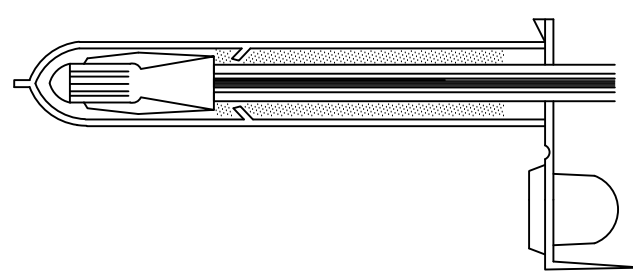
STEP 1: STRIP WIRES 1/2" FROM ENDS.



STEP 2: APPLY SCOTCHLOK Y SPRING CONNECTOR IN A CLOCKWISE DIRECTION.

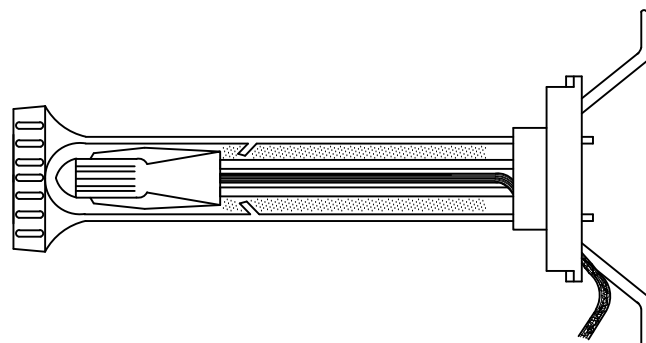


STEP 3: INSERT SPLICE TO BOTTOM OF GEL-FILLED TUBE. CHECK TO MAKE SURE CONNECTOR HAS BEEN PUSHED PAST LOCKING FINGERS AND IS SEATED AT BOTTOM OF TUBE.



MFR:
3M DIRECT BURY SPLICE KIT DBR/Y-60R,
RAINBIRD WC20 CONNECTOR, OR
APPROVED EQUAL,

STEP 4: POSITION WIRES IN WIRE CHANNELS AND CLOSE INSULATOR TUBE COVER.



8 WIRE WATERPROOF CONNECTORS

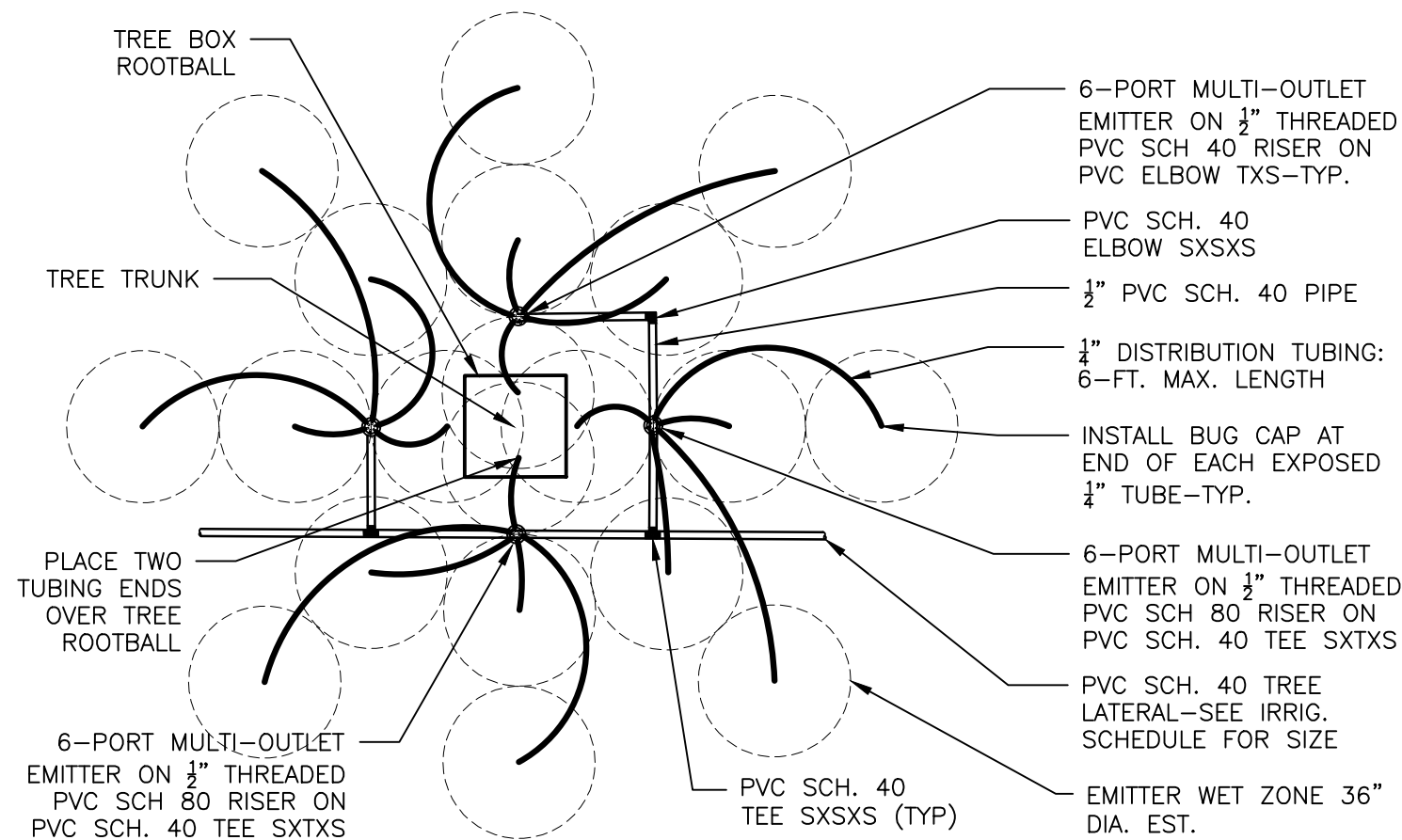
IR501 SCALE: N.T.S

- LEGEND:
1. 1/4-IN DISTRIBUTION TUBING TO PLANT (10-FT MAX LENGTH)
 2. ROUND ACCESS BOX WITH LID-COLOR: TAN RAINBIRD SEB 7XB OR EQUAL
 3. 6-OUTLET MULTI-PORT THREADED EMITTER
 4. ROUTE DISTRIBUTION TUBING THROUGH SLOT HOLE IN BOX. PROVIDE LOOP INSIDE BOX
 5. FINISHED GRADE
 6. TOP OF EARTH SUBGRADE
 7. PVC SCH. 40 ADAPTOR
 8. PVC SCH. 40 TEE OR ELL
 9. PVC LATERAL PIPE
 10. GRAVEL SUMP: 1/2 CUFT 3/4-IN DIA. WASHED GRAVEL

MULTI-PORT EMITTER - SECTION

5 TREE AND SHRUB DRIP EMITTER - SECTION

IR501 SCALE: N.T.S

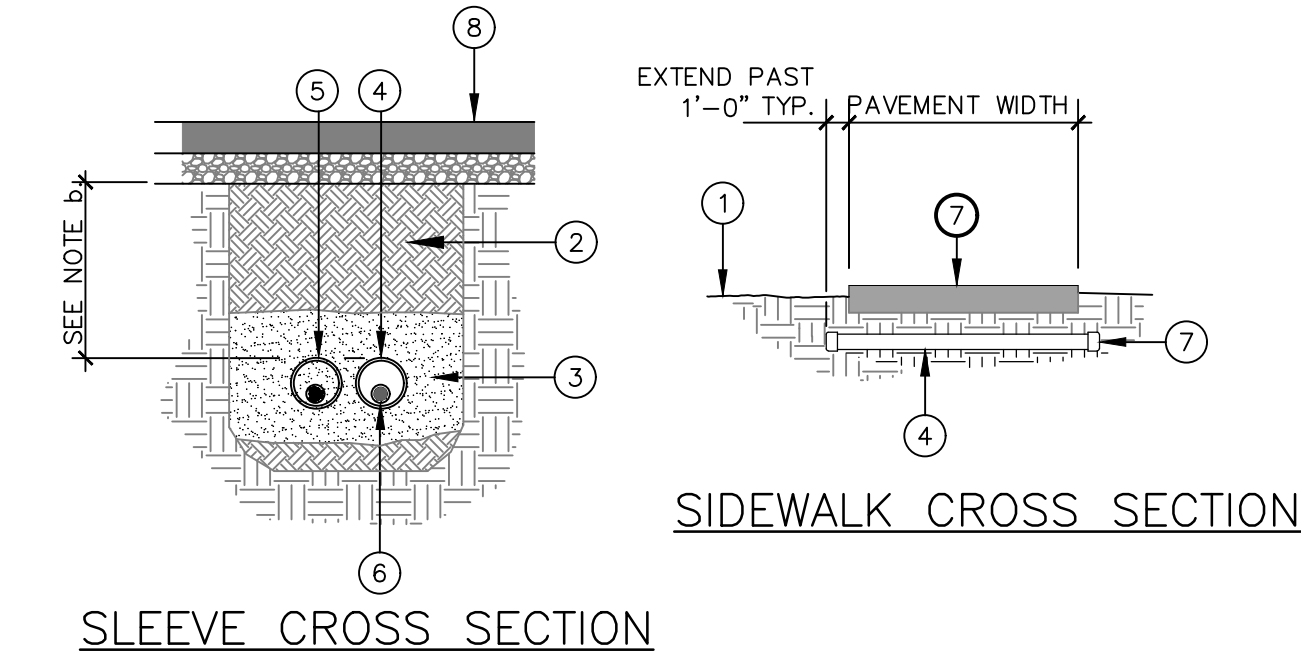


- NOTES:
1. EMITTER TUBING SHALL BE EQUALLY SPACED AND LOCATED TO DIRECT WATER FLOW AT EMITTER WET ZONES SHOWN. SPACE WET ZONES EQUALLY AROUND TREE PER DETAIL. SOME LOCATIONS ON PLAN WILL NOT ALLOW PLACEMENT DUE TO CONFLICTS.
 2. MULTIPORT EMITTERS SHALL HAVE 4 PORTS OPEN. CAP UNUSED OUTLETS NOT USED.
 3. INSTALL (4) MULTI-PORT EMITTERS FOR THIS TREE CONDITION (EAST SIDE OF STREET)
 4. *** IN LOCATIONS WHERE TREE AND SHRUBS OVERLAP, DELETE DISTRIBUTION TUBING TO TREE AT OR NEAR SHRUB LOCATION.

BID ITEM NOTE: ITEM 440.72200 MULTI-PORT EMITTER WORK INCLUDES MULTI-PORT EMITTER, DISTRIBUTION TUBING, EMITTER ACCESS BOX, FITTINGS, CONNECTION TO LATERAL PIPE, EXCAVATION AND BACKFILL-COMPLETE. (EXCLUDES LATERAL PIPE)

9 TREE DRIP EMITTERS - LAYOUT

IR501 SCALE: N.T.S



LEGEND:

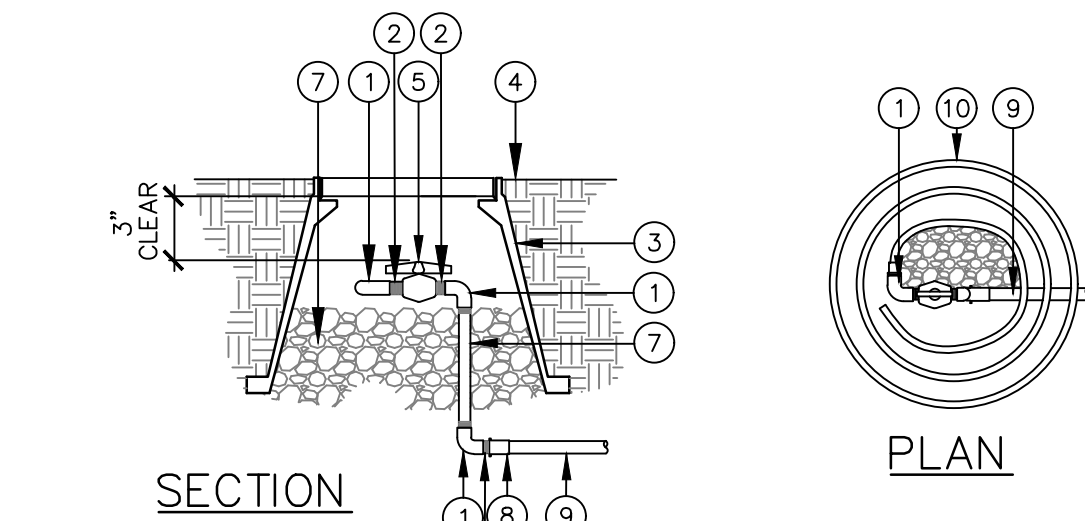
1. FINISHED GRADE.
2. CLEAN BACKFILL, NO PARTICLE OVER 1/2" DIAMETER, 95% COMPACTED.
3. BED AND SHADE WITH 2" OF SAND OR ROCK FREE SOIL AROUND ALL PIPE.
4. PIPE SLEEVE: SEE IRRIGATION PLAN LEGEND
5. WIRES SLEEVE: SEE IRRIGATION PLAN LEGEND
6. IRRIGATION LINE.
7. PVC STANDARD CAP FOR NON USED SLEEVES
8. CONCRETE OR ASPHALT PAVING-SEE CIVIL PLANS

NOTES:

- A. SLEEVE ALL PIPE AND WIRES UNDER WALKS, STRUCTURES, WALLS, ETC.
- B. SLEEVE DEPTHS:
 1. ROADWAYS: 30" MIN.
 2. RESIDENTIAL DRIVEWAYS: 24" MIN.
 3. SIDEWALKS: 18" MIN.

2 SLEEVE INSTALLATION

IR501 SCALE: N.T.S



LEGEND:

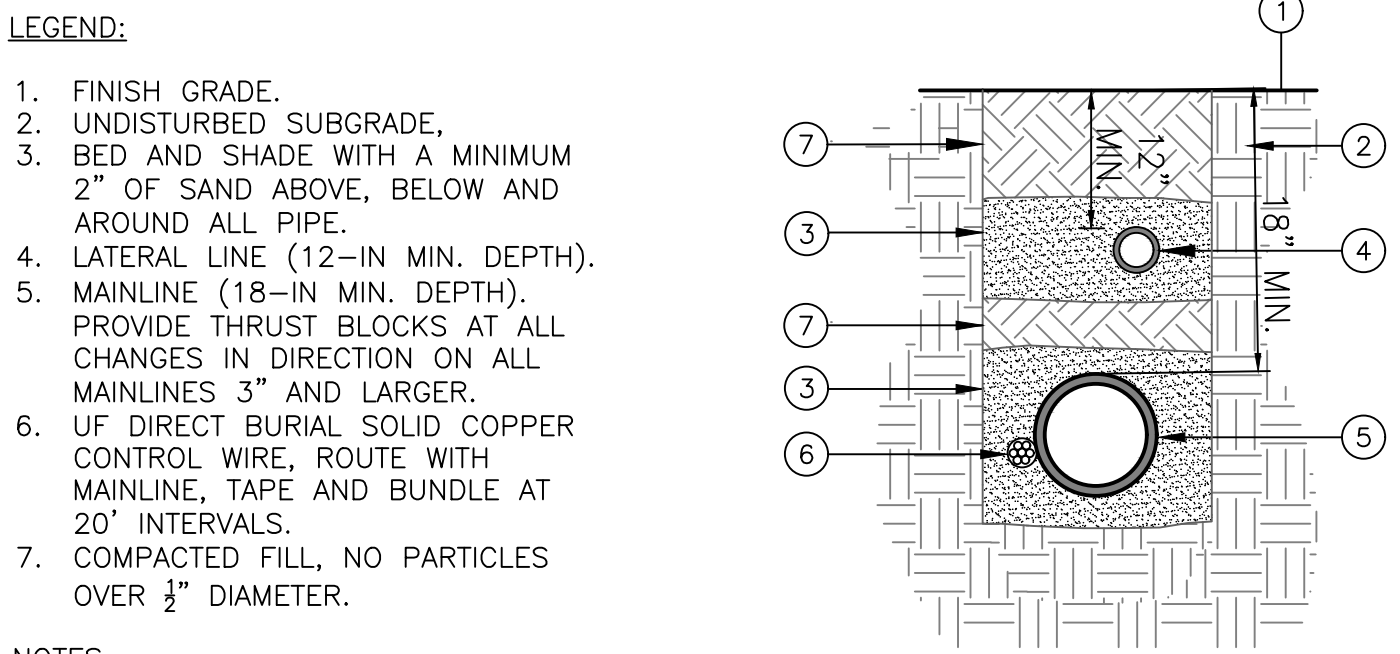
1. SLIP x THREADED PVC SCH 40 90 ELL.
2. 1/2" THREADED PVC SCH 40 NIPPLE
3. 10" ROUND TAN VALVE BOX, BRAND "FV" INTO VALVE BOX W/ LOCKING LID. SEE SPECS. FOR FONT AND HEIGHT. TAN COLOR FINISH GRADE.
4. 1" PVC SCH. 40 BALL VALVE (SLIP X SLIP) TO REST ON GRAVEL SUMP.
5. 1/2" PVC SCH. 40 NIPPLE- 1/2" x 6".
6. SCHEDULE 40 PVC NIPPLE- 1/2" x 6".
7. 3/4" CRUSHED GRAVEL SUMP (1 CU. FT.).
8. THREADED X SLIP 1/2"x1" PVC SCH 40 REDUCER.
9. 1" PVC SCH 40 PIPE
10. 36" x 1/2" I.D. IPS FLEX PVC HOSE-SLIP FIT INTO 1/2" PVC ELL.

NOTES:

- A. PROVIDE A MINIMUM OF 3" CLEAR FROM BOTTOM OF VALVE BOX LID TO TOP OF BALL VALVE.
- B. FLUSH ALL LATERALS DURING CONSTRUCTION AND PROJECT COMPLETION

6 DRIP LATERAL FLUSH CAP ASSEMBLY

IR501 SCALE: N.T.S



LEGEND:

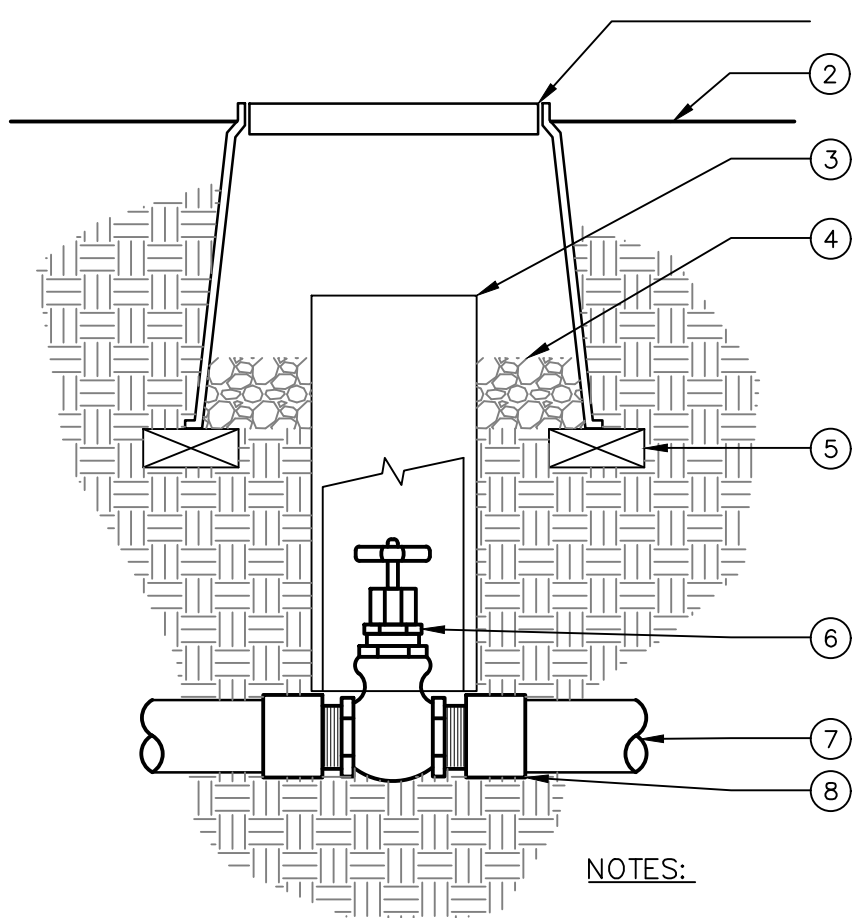
1. FINISH GRADE.
2. UNDISTURBED SUBGRADE.
3. BED AND SHADE WITH A MINIMUM 2" OF SAND ABOVE, BELOW AND AROUND ALL PIPE.
4. LATERAL LINE (12-IN MIN. DEPTH).
5. MAINLINE (18-IN MIN. DEPTH). PROVIDE THRUST BLOCKS AT ALL CHANGES IN DIRECTION ON ALL MAINLINES 3" AND LARGER.
6. UF DIRECT BURIAL SOLID COPPER CONTROL WIRE, ROUTE WITH MAINLINE, TAPE AND BUNDLE AT 20' INTERVALS.
7. COMPACTED FILL, NO PARTICLES OVER 1/2" DIAMETER.

NOTES:

- A. SLEEVE ALL PIPE AND WIRES UNDER WALKS, DRIVEWAYS, STRUCTURES, WALLS, ETC.
- B. SLEEVE SIZE TO BE TWICE THE DIAMETER OF THE PIPE IF NOT SPECIFIED ON PLANS.
- C. SEE SPECIFICATION SECTION 213 FOR PIPE DEPTHS UNDER PART 3 "TRENCHING" SUBSECTION

3 TRENCH SECTION DETAIL

IR501 SCALE: N.T.S



NOTES:

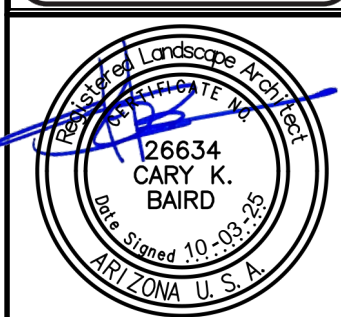
1. INSTALL GATE VALVES A MIN. OF 24" FROM STRUCTURES OR HARDSCAPING.
2. REFER TO SPECS. AND PLAN SHEETS FOR MORE INFORMATION.
3. NOMINAL SIZE OF GATE VALVE TO MATH NOMINAL MAINLINE SIZE.

7 GATE VALVE

IR501 SCALE: N.T.S



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IRRIGATION DETAILS 1

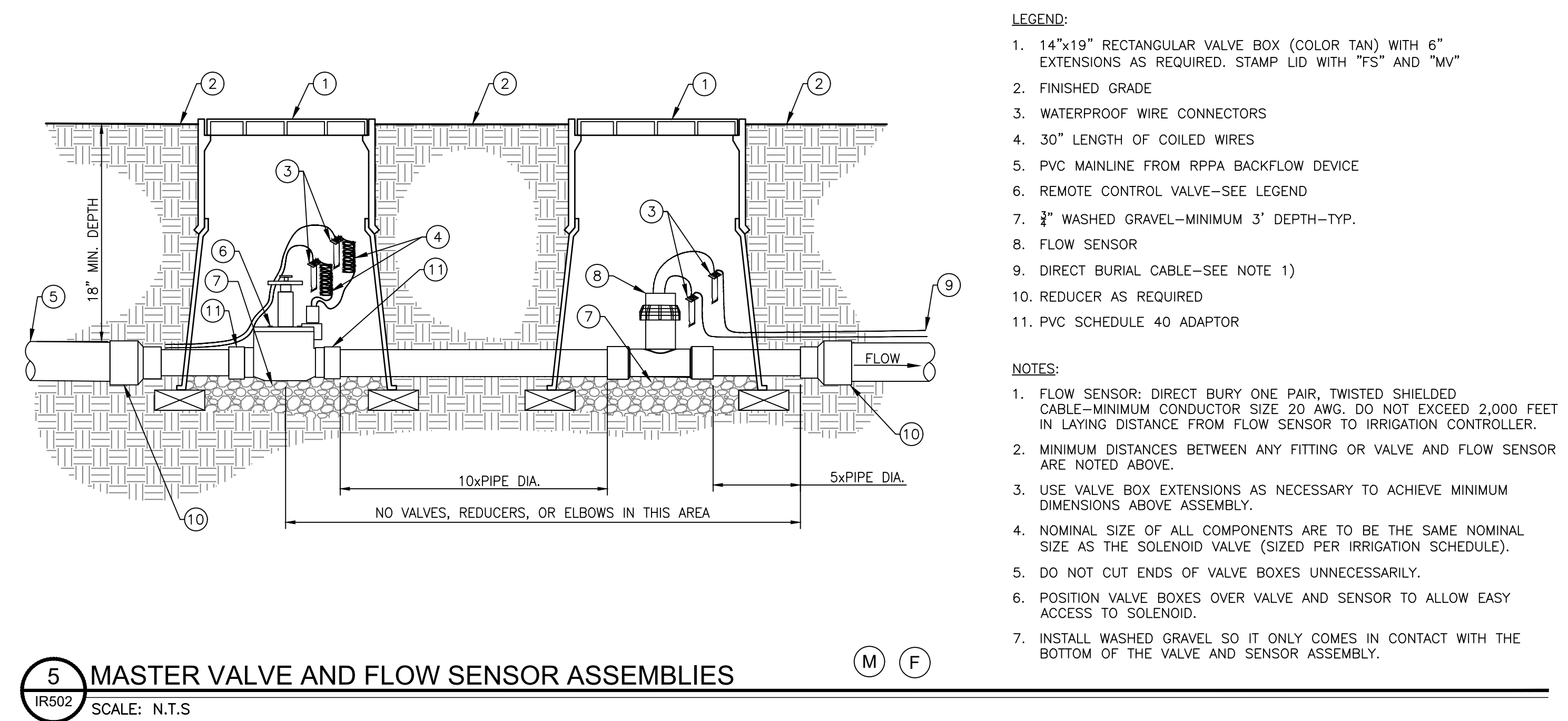
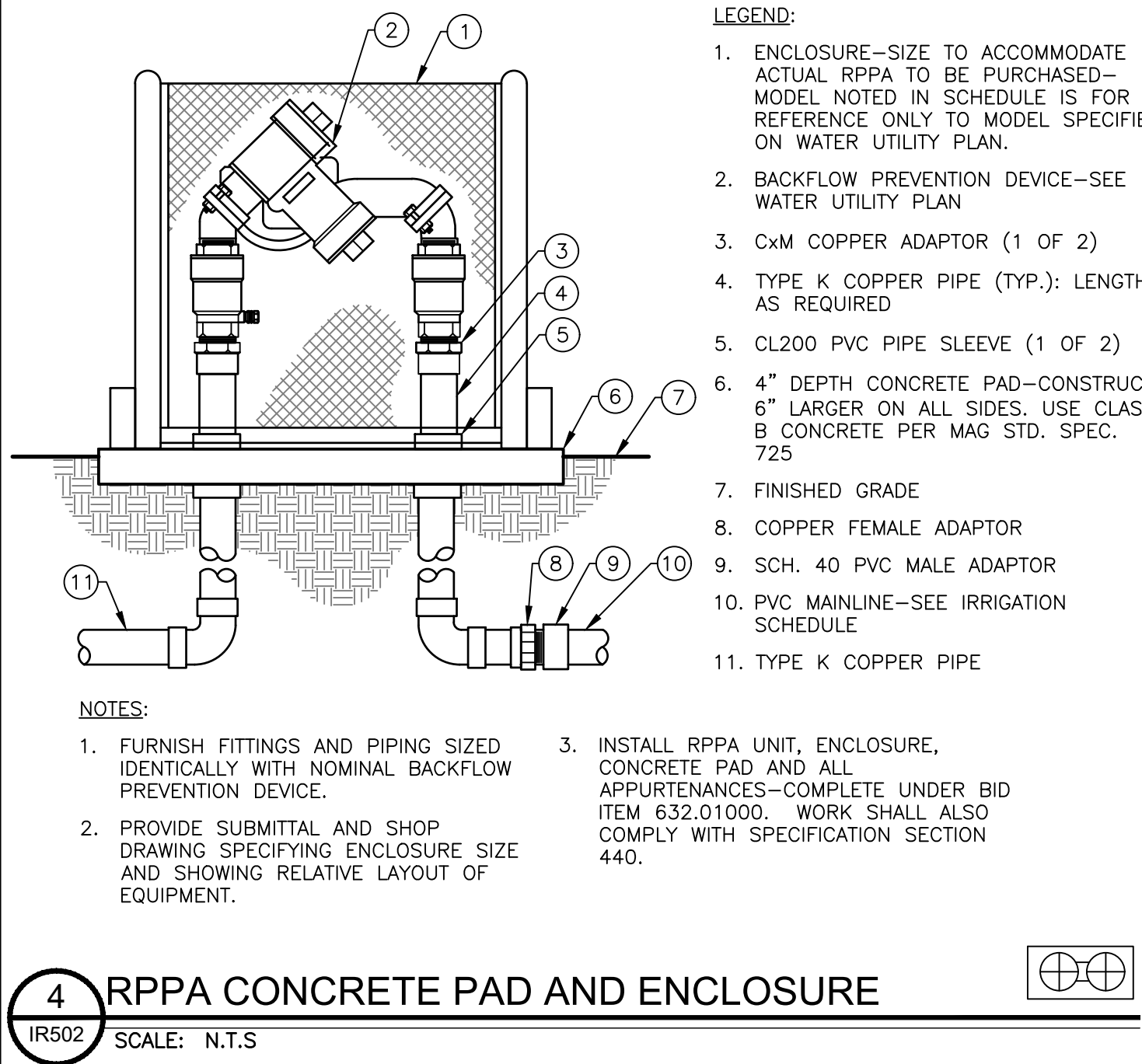
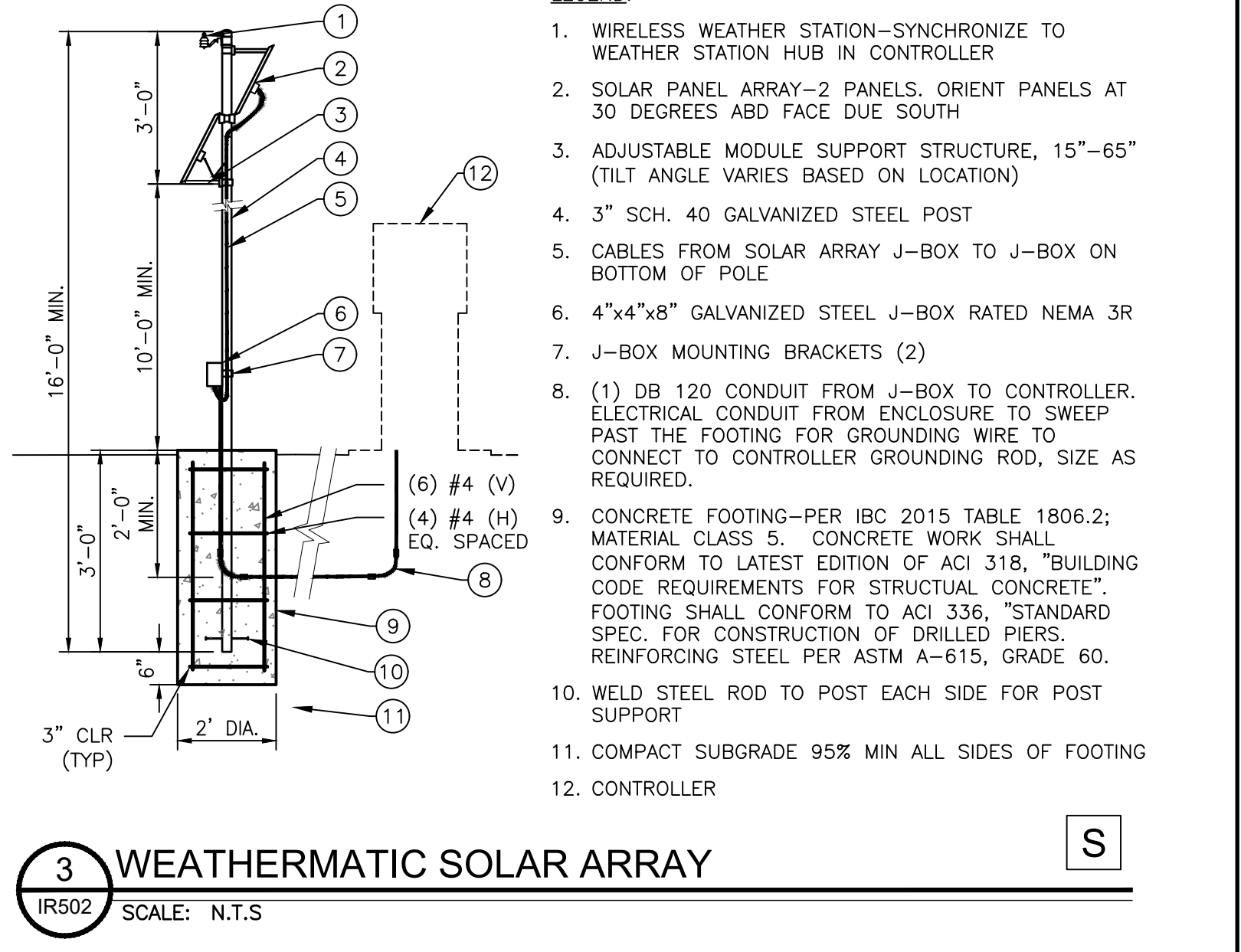
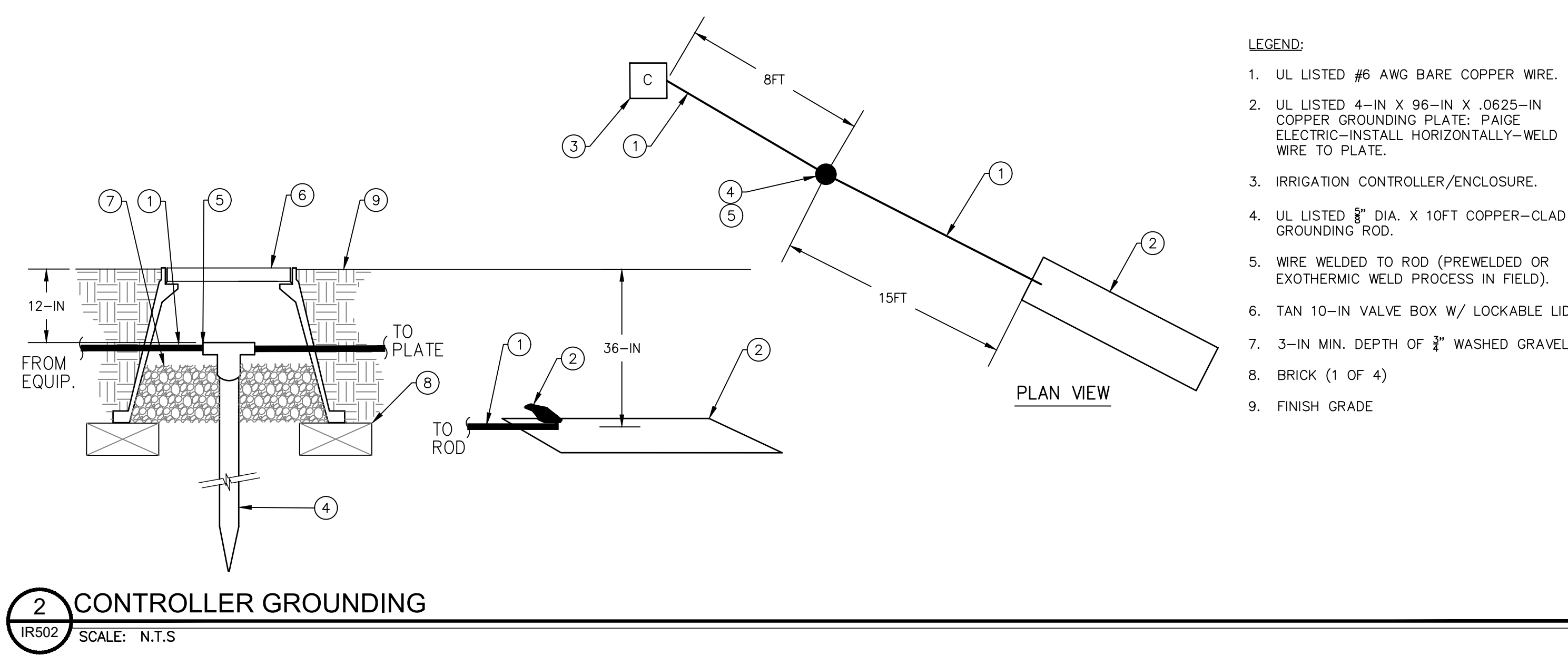
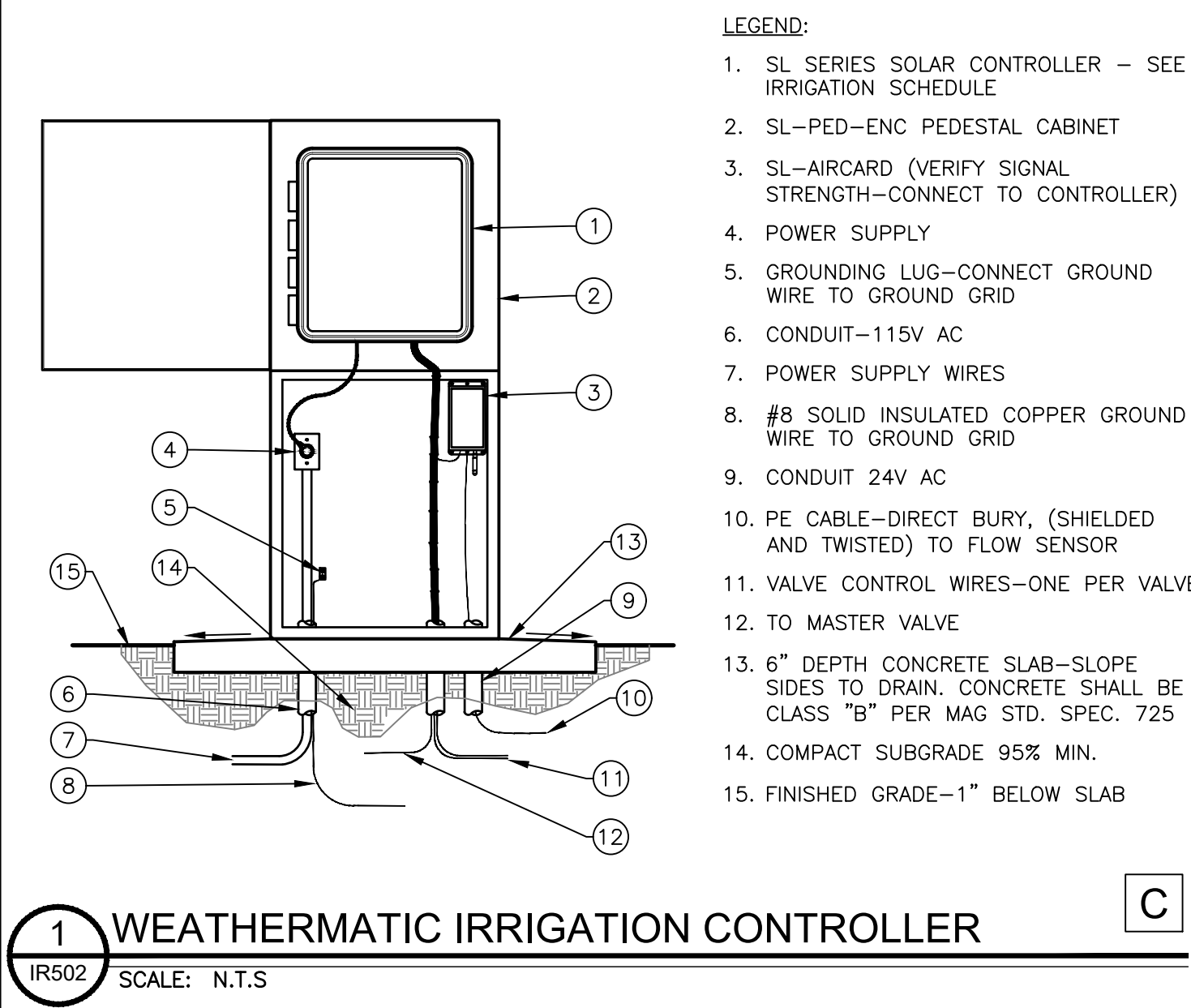
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Contact Arizona 811 at least two full working days before you begin excavation ARIZONA 811 Call 811 or click Arizona811.com	TOWN OF QUEEN CREEK
126634 CARY K. BAIRD Professional Engineer State of Arizona	POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY AND DRAINAGE IMPROVEMENTS Stantec 3133 West Frye Road Chandler, Arizona 85226 Tel. 480.487.6100 www.stantec.com
IRRIGATION DETAILS 2	
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DRAWING NO. IR502	SHEET 114 OF 133

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GENERAL LANDSCAPE NOTES

1. BEFORE WORK BEGINS ON THE PROJECT, LANDSCAPE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH PROJECT GENERAL CONTRACTOR TO REVIEW THE PROJECT. ONLY THE TOWN CIP INSPECTOR IS AUTHORIZED TO MAKE ANY CHANGES PRIOR TO THE START OF ANY WORK.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL PLANT MATERIAL LOCATIONS WITH OTHER TRADES PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE LOCATIONS OF EXISTING AND FUTURE UNDERGROUND SERVICES AND IMPROVEMENTS WHICH MAY CONFLICT WITH THE WORK TO BE DONE. PRIOR TO THE START OF WORK, ALL UNDERGROUND UTILITIES SHALL BE LOCATED AND PROTECTED. EXISTING UNDERGROUND SERVICES SHALL NOT BE DISTURBED OR REMOVED UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS.

3. PLANTING DESIGN MAY BE MODIFIED TO ADAPT TO EXISTING CONDITIONS THAT DIFFER FROM THESE PLANS, AND DUE TO GRADE LIMITATIONS ON SITE.

4. ALL PLANTS SHALL BE OF VARIETIES AND TYPES SPECIFIED AND PURCHASED FROM GROWERS OR COMPANIES THAT ARE APPROVED BY THE AMERICAN NURSERY ASSOCIATION AND THE ARIZONA NURSERY ASSOCIATION. PLANTS SPECIFIED WERE VERIFIED AS "AVAILABLE" DURING DESIGN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE PLANTS FROM NURSERIES OUTSIDE ARIZONA IF NOT AVAILABLE LOCALLY. ALL DELIVERY COSTS SHALL BE INCLUDED IN THE BID. ADDITIONAL COSTS INCURRED AFTER AWARD SHALL BE CONTRACTOR'S RESPONSIBILITY. NO CHANGE ORDER WILL BE ACCEPTED BY THE TOWN OF QUEEN CREEK. ALL PLANTS SHALL BE SECURED FOR THIS PROJECT NO LATER THAN 60 DAYS AFTER PROJECT NOTICE TO PROCEED. CONTRACTOR SHALL PAY FOR ALL TRAVEL COSTS FOR LANDSCAPE ARCHITECT AND TOWN OF QUEEN CREEK CIP INSPECTOR OR REPRESENTATIVE TO VISIT NURSERIES IF LOCATED OUTSIDE ARIZONA.

5. **TREES: ALL TREES ON NORTH SIDE OF STREET SHALL BE NURSERY SELECTED TO PROVIDE A SIX FOOT "NO BRANCH/NO LEAF CLEAR ZONE" FOR TRAFFIC SIGHT LINE VISIBILITY MEASURED FROM "PLANTED" FINISH GRADE. SELECT TREES WITH HIGH BRANCHING TO ACHIEVE THIS.

5A. IF SOME TREES REQUIRE "MINOR" PRUNING TO ACHIEVE THIS CLEARANCE, PROPOSED PRUNING SHALL BE REVIEWED IN ADVANCE WITH AN ARBORIST AND LANDSCAPE ARCHITECT. UNDER NO CIRCUMSTANCE SHALL PRUNING COMPROMISE TREE FORM AND TREE INTEGRITY.

5B. ALL TREES SHALL BE TAGGED AND APPROVED BY LANDSCAPE ARCHITECT AND TOWN INSPECTOR AT THE NURSERY. PROVIDE PHOTOS OF TREES IN ADVANCE FOR PRE-APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO SCHEDULING NURSERY VISIT. TREE SELECTION INTENT:

5C. ALL TREES SHALL BE SELECTED TO HAVE A SOUND TREE BRANCH STRUCTURE BECAUSE UPON PROJECT COMPLETION, THE TOWN WILL START SHAPING THESE TREES AS THEY GROW TO ACHIEVE A 8-FT NO-LEAF CLEARANCE FROM 6-FT.

6. PLANT APPROVALS: CONTRACTOR SHALL SUBMIT (PDF FILE TYPE ONLY) COLOR DIGITAL PHOTOGRAPHS (MINIMUM 300 DPI RESOLUTION) OF ALL PLANT MATERIALS SPECIFIED PRIOR TO ORDERING FOR REVIEW AND APPROVAL BY TOWN CIP INSPECTOR'S AUTHORIZED REPRESENTATIVE. FOR TREES AND SHRUBS, EACH PHOTO SHALL INCLUDE A MEASURING STICK (FEET-INCHES) FOR PLANT SIZE VERIFICATION. MEASURING STICKS SHALL BE READABLE IN EACH PHOTO. LABEL PLANT NAME AND NURSERY SOURCE ON EACH PDF PHOTO.
7. VERIFY PLANT AND LANDSCAPE ROCK QUANTITIES DURING BIDDING AND PRIOR TO INSTALLATION. QUANTITIES ARE LISTED FOR CONVENIENCE ONLY, THE ACTUAL NUMBER OF SYMBOLS SHOWN ON THE PLANTING PLANS SHALL HAVE PRIORITY OVER QUANTITIES LISTED WITHIN THE LANDSCAPE MATERIAL SCHEDULES. THE CONTRACTOR SHALL FURNISH ALL PLANT MATERIAL NECESSARY TO COMPLETE THE PLANTINGS AS SHOWN ON THE PLANS.

8. CLARIFICATION OF DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE SITE SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE PROJECT LANDSCAPE ARCHITECT.

9. ONLY THE LANDSCAPE ARCHITECT OR TOWN CIP INSPECTOR MAY APPROVE SUBSTITUTIONS REQUESTED OTHERWISE, PLANT SUBSTITUTIONS ARE PROHIBITED.

10. ALL PLANT MATERIAL MUST BE MAINTAINED IN HEALTH AND VIGOR, AND BE ALLOWED TO ATTAIN NATURAL SIZE AND SHAPE IN ACCORDANCE WITH NATIONAL AND ARIZONA NURSERY ASSOCIATION SPECIFICATIONS AND PROJECT SPECIFICATIONS.

11. UPON DELIVERY, ALL PLANT MATERIAL IS SUBJECT TO INSPECTION PRIOR TO ACCEPTANCE. TOWN CIP INSPECTOR RESERVES THE RIGHT TO REFUSE ANY PLANT MATERIAL DEEMED UNACCEPTABLE, EVEN AFTER DELIVERY TO THE SITE.

12. SHRUBS/GROUNDCOVER PLACEMENTS:

12A. FLAG ALL PLANT LOCATIONS FOR APPROVAL BY TOWN CIP INSPECTOR'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION.

12B. LOCATE PLANTS BY MEASURING THEIR PLANT CENTERS NO CLOSER THAN NOTED ON THE PLANT SCHEDULE ON EACH PLAN SHEET. SPACE PLANTS FURTHER APART WHERE GRAPHICALLY SHOWN ON THE PLANS. FIELD ADJUST IF NECESSARY TO AVOID ANY UNFORESEEN CONFLICTS NOT SHOWN ON THESE PLANS.

12C. PLANT CENTERS SHALL BE NO CLOSER THAN THE DISTANCE SPECIFIED ON THE PLANT SCHEDULE LOCATED ON EACH PLAN SHEET. DISTANCES ARE MEASURED FROM PLANT CENTER TO EDGE OF PAVEMENTS, PUBLIC ACCESS-WAYS, OR BACK OF CURBS UNLESS OTHERWISE STATED OR DETAILED DIFFERENTLY ON THE PLANS OR AS DIRECTED BY THE CITY PROJECT MANAGER'S AUTHORIZED REPRESENTATIVE.

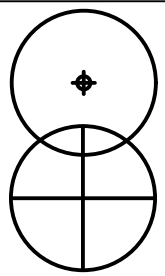







13. PLANTING METHODS, SOIL AMENDMENT QUANTITIES, AND PLANT PIT PREPARATION METHODS SHALL BE ACCORDING TO THE PLANTING SPECIFICATIONS AND DETAILS.

14. ALL PLANTING AREAS SHALL RECEIVE PRE-APPROVED WEED CONTROL/ PRE-EMERGENT HERBICIDES PER THE GUIDELINES SET FORTH IN THE SPECIFICATIONS AND DETAILS. RE-APPLY HERBICIDES AS NECESSARY TO COMPLETELY KILL NOXIOUS MATERIAL, INCLUDING WEEDS, BERMUDA GRASS. REMOVE ANY DEBRIS AND PROPERLY DISPOSE OF OFF-SITE. REMOVE LARGE WEEDS/ROOTS BY HAND UP TO PROJECT FINAL ACCEPTANCE.

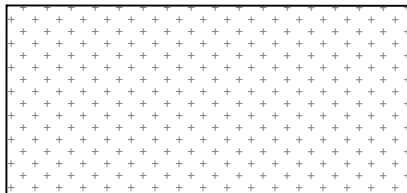
15. DECOMPOSED GRANITE (GRAVEL MULCH) SHALL COVER ALL LANDSCAPE PLANTER AREAS. ROCK SHALL BE INSTALLED UNIFORMLY. INSTALL PER PLAN DETAILS AND PROJECT SPECIFICATIONS.

16. UNLESS OTHERWISE DIRECTED BY TOWN CIP INSPECTOR'S AUTHORIZED REPRESENTATIVE, REMOVE ALL NURSERY STAKES FROM TREES. ADD ADDITIONAL GUYS TO TREE STAKING AS NECESSARY. DO NOT OVER TIGHTEN - ALLOW TRUNKS TO MOVE WITHIN GUYS WITHOUT RUBBING AGAINST THE TRUNK OR BRANCHES.

17. PLANT WARRANTY SHALL BE UNCONDITIONAL FOR ONE (1) YEAR FROM DATED OF SUBSTANTIAL COMPLETION-SEE ALSO SPECIFICATIONS.

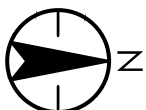
MASTER PLANT SCHEDULE					
TREES			* BOX SIZE GIVEN FOR REFERENCE ONLY. TREE SHALL MEET MINIMUM CALIPER SIZE		
SYMBOL	QUANTITY	BOTANICAL NAME/COMMON NAME	MIN CALIPER *MIN BOX SIZE	MINIMUM SIZE (HT.xWD.)	
	48	PISTACIA X HYBRID 'RED PUSH' RED PUSH PISTACHE	2" CALIPER 36" BOX	10"x 4"	
	45	ULMUS PARVIFLORA 'TRUE GREEN' TRUE GREEN ELM	2" CALIPER 36" BOX	11"x 7"	
SHRUBS					MATURE SIZE (HT.xWD.) NO PRUNING!! MINIMUM SPACING FROM OTHER PLANTS
SYMBOL	QUANTITY	BOTANICAL NAME/COMMON NAME	CONTAINER SIZE	MINIMUM SIZE (HT.xWD.)	
	133	EREMOPHILA HYGROPHANA 'BLUE BELLS (1) BLUE BELLS EREMOPHILA	5 GAL.	9"x9"	2'x4' PLANT MIN. 5' APART
	290	ERICAMERIA LARICIFOLIA 'DESERT MOUNTAIN' (1) TURPENTINE BUSH 'DESERT MOUNTAIN'	5 GAL.	9"x9"	2'x3' PLANT MIN. 4' APART
	133	LEUCOPHYLLUM LANGMANIAE 'LYNN'S LEGACY' TEXAS RANGER LYNN'S LEGACY (1)	5 GAL.	12"x10"	5'x5' PLANT MIN 6' APART
	137	TEUCRIUM CHAMAERDYS GERMANDER	5 GAL.	6"x12"	1'x2' PLANT MIN. 3' APART
GROUNDCOVERS					
	12	EREMOPHILA GLABRA 'MINGNEW GOLD' OUTBACK SUNRISE EMU (1)	5 GAL.	4"x12"	1'x6' PLANT MIN 6' APART
	128	LANTANA X 'NEW GOLD' NEW GOLD LANTANA	5 GAL.	10"x10"	2'x4' PLANT MIN 5' APART
SUCCULENTS					
	184	HESPERALOE PARVIFLORA 'DESERT FLAMENCO' DESERT FLAMENCO YUCCA (1)	5 GAL.	12"x12"	3'x3' PLANT MIN 3' APART




(1) KNOWN SOURCE: MOUNTAIN STATES WHOLESALE NURSERY

LANDSCAPE ROCK	
<u>KEY:</u>	<u>DESCRIPTION</u>
	GRAVEL MULCH GROUNDCOVER: SEE CIVIL PLANS FOR QUANTITIES 1/2" SCREENED COLOR: 'SUPERIOR GOLD', DEPTH 2" SEE DETAIL 2.3 SHEET L501 SOURCE: KALAMAZOO MATERIALS INC.

SHEET KEYMAP

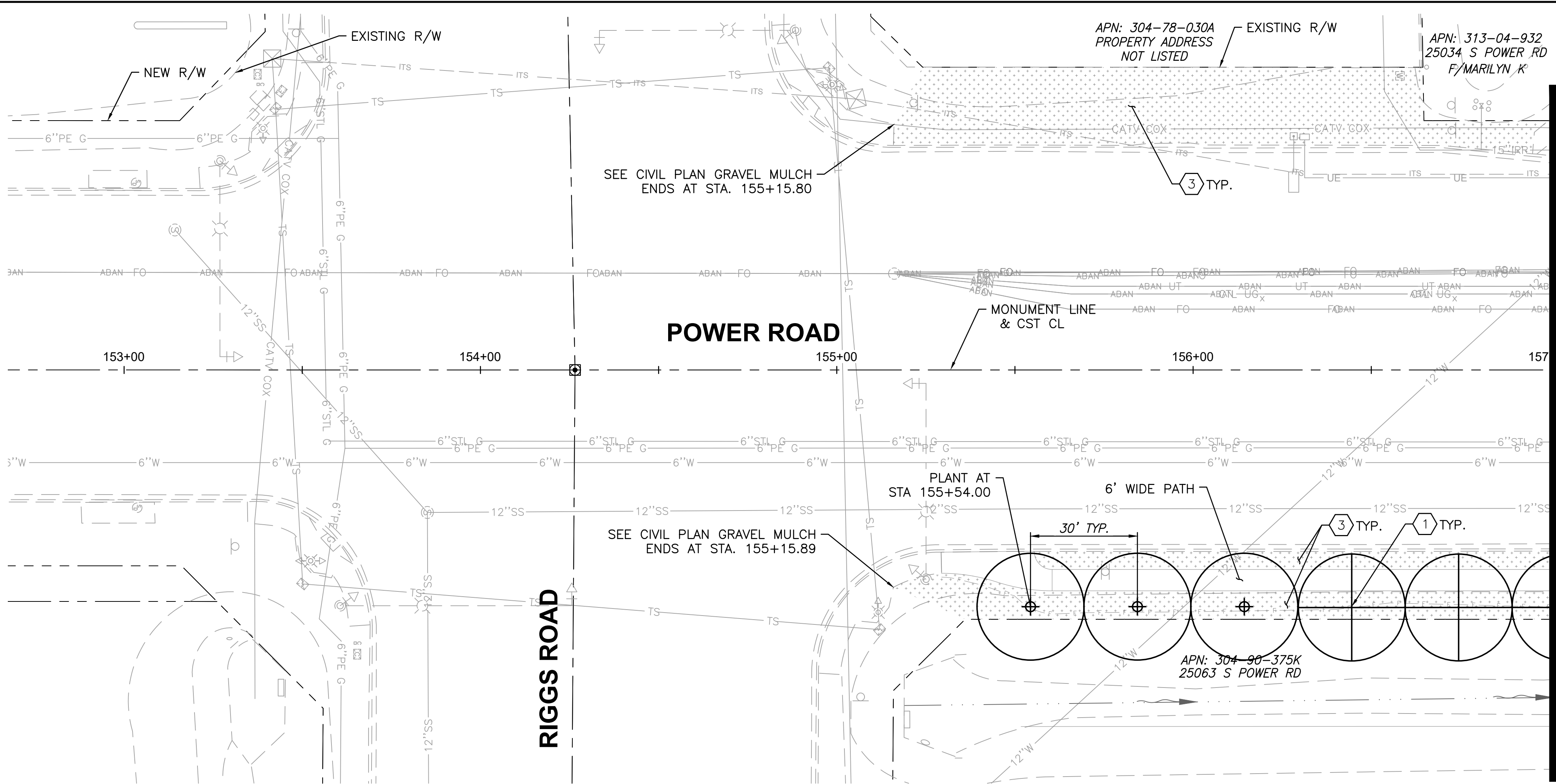
PL001	PL002	PL003	PL004	PL005	PL006	PL007	PL008	PL009	PL010	PL011	PL012	PL013	PL014
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LANDSCAPE CONSTRUCTION NOTES (TYP)				QUANTITY	
ITEM	BID	ITEM	DESCRIPTION	QTY.	UNIT
1.	430.50136		INSTALL 36-INCH BOX TREE PER DETAIL 1, SHEET PL501.	93	EA
2.	430.50205		INSTALL 5-GALLON SHRUB PER DETAIL 2, SHEET PL501.	1,110	EA
3.	430.53110		INSTALL 2" DEPTH GRAVEL MULCH IN ALL LANDSCAPE PLANTER AREAS PER DETAIL 3,4 SHEET PL501-SEE CIVIL PLAN FOR QUANTITIES.	-	SY
<div><div><div>Contact Arizona 811 at least two full working days before you begin excavation</div><div><div>Call 811 or click Arizona811.com</div></div></div><div><div></div><div>TOWN OF QUEEN CREEK</div></div><div><div></div><div><div>POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY AND DRAINAGE IMPROVEMENTS</div><div><div>3133 West Frye Road Chandler, Arizona 85226 Tel. 480.487.6100 www.stantec.com</div></div></div></div><div>LANDSCAPING NOTES AND SCHEDULES</div><div><div>DESIGNED BY CB</div><div>DRAWN BY CB</div></div><div>CIP PROJ NO. A1405</div><div>DRAWING NO. PL101</div><div>SHEET 115 OF 133</div></div>					

PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

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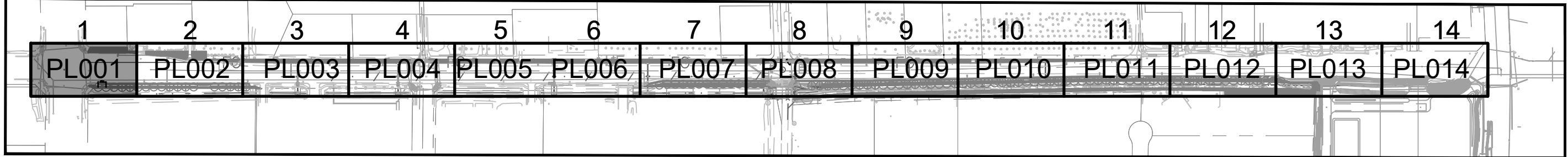
MATCH LINE - STA 157+00 SEE DWG PLO02

SHEET PLANT SCHEDULE				
TREES				
SYMBOL	QUANTITY	BOTANICAL NAME/COMMON NAME	SIZE	SPACING
	3	PISTACIA X HYBRID 'RED PUSH' RED PUSH PISTACHE	36" BOX	30'-0"
	2	ULMUS PARVIFLORA 'TRUE GREEN' TRUE GREEN ELM	36" BOX	30'-0"

LANDSCAPE ROCK	
KEY:	DESCRIPTION
	GRAVEL MULCH GROUNDCOVER: 1/2" SCREENED, 2" DEPTH PER DETAIL 2,3 SHEET PL501-SEE CIVIL PLANS FOR QUANTITIES

NOTE: PLANT MATERIAL TOTAL
QUANTITIES FOR PROJECT SHALL
TAKE PRECEDENCE OVER QUANTITIES
LISTED ON EACH LANDSCAPE PLAN
WHEN ADDED TOGETHER.

SHEET KEYMAP



LANDSCAPE CONSTRUCTION NOTES (TYP)

ITEM	BID ITEM	DESCRIPTION	QTY	UNIT
1.	430.50136	INSTALL 36-INCH BOX TREE PER DETAIL 1, SHEET PL501.	5	EA
2.	430.50205	INSTALL 5-GALLON SHRUB PER DETAIL 2, SHEET PL501.	0	EA
3.	430.53110	INSTALL 2" DEPTH GRAVEL MULCH IN ALL LANDSCAPE PLANTER AREAS PER DETAIL 3,4 SHEET PL501-SEE CIVIL PLAN FOR QUANTITIES.	-	SY

0'10'20'40'

HORZ. SCALE: 1"=20'

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TOWN OF
QUEEN CREEK

POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS

Stantec

3133 West Frye Road
Chandler, Arizona 85226
Tel. 480.687.6100
www.stantec.com

DESIGNED BY CB

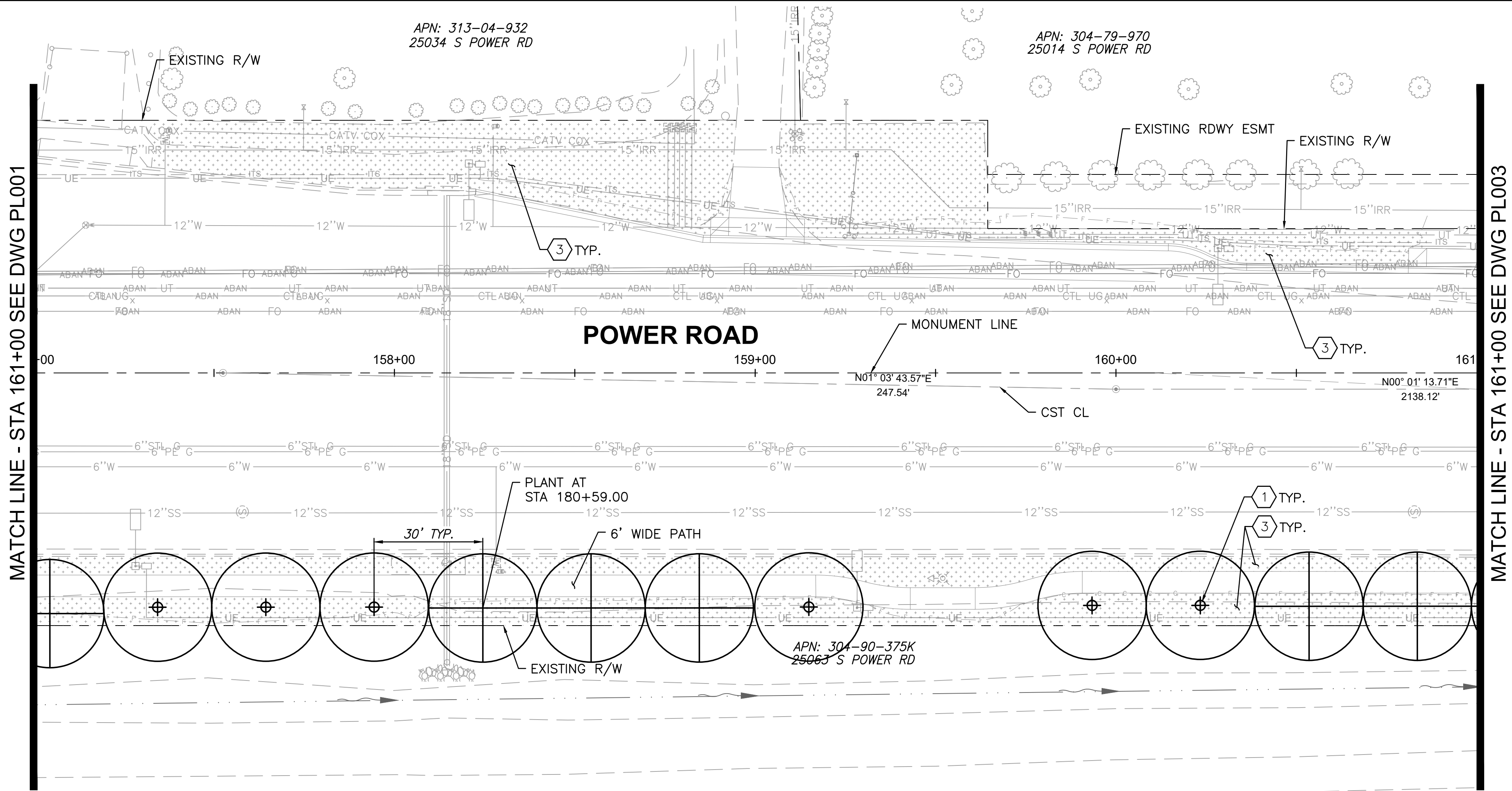
DRAWN BY CB

CIP PROJ NO. A1405

DRAWING NO. PL001

SHEET 116 OF 133

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SHEET PLANT SCHEDULE				
SHRUBS				
SYMBOL	QUANTITY	BOTANICAL NAME/COMMON NAME	NO PRUNING!! MINIMUM SPACING FROM OTHER PLANTS	PLANT SETBACK: MINIMUM PLANT CENTER FROM INSIDE EDGE OF CURB OR PAVEMENT
	0	EREMOPHILA HYGROPHANA 'BLUE BELLS BLUE BELLS EREMOPHILA	PLANT MIN. 5' APART	2'-6"
	0	ERICAMERIA LARICIFOLIA 'DESERT MOUNTAIN' TURPENTINE BUSH 'DESERT MOUNTAIN'	PLANT MIN. 4' APART	2'-0"
	0	LEUCOPHYLLUM LANGMANIAE 'LYNN'S LEGACY' TEXAS RANGER LYNN'S LEGACY	PLANT MIN 6' APART	3'-0"
	0	TEUCRIUM CHAMAERDYS GERMANDER	PLANT MIN. 3' APART	1'-6"
GROUNDCOVERS				
	0	EREMOPHILA GLABRA 'MINGNEW GOLD' OUTBACK SUNRISE EMU	PLANT MIN 6' APART	3'-0"
	0	LANTANA X 'NEW GOLD' NEW GOLD LANTANA	PLANT MIN 5' APART	2'-0"
SUCCULENTS				
	0	HESPERALOE PARVIFLORA 'DESERT FLAMENCO' HYBRID YUCCA 'DESERT FLAMINCO'	PLANT MIN 4' APART	2'-0"

SHEET PLANT SCHEDULE				
TREES				
SYMBOL	QUANTITY	BOTANICAL NAME/COMMON NAME	SIZE	SPACING
	6	PISTACIA X HYBRID 'RED PUSH' RED PUSH PISTACHE	36" BOX	30'-0"
	6	ULMUS PARVIFLORA 'TRUE GREEN' TRUE GREEN ELM	36" BOX	30'-0"

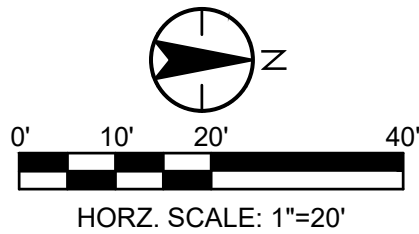
LANDSCAPE ROCK	
KEY:	DESCRIPTION
	GRAVEL MULCH GROUNDCOVER: 1/2" SCREENED, 2" DEPTH PER DETAIL 2,3 SHEET PL501-SEE CIVIL PLANS FOR QUANTITIES

NOTE: PLANT MATERIAL TOTAL
QUANTITIES FOR PROJECT SHALL
TAKE PRECEDENCE OVER QUANTITIES
LISTED ON EACH LANDSCAPE PLAN
WHEN ADDED TOGETHER.

SHEET KEYMAP

1	2	3	4	5	6	7	8	9	10	11	12	13	14
PL001	PL002	PL003	PL004	PL005	PL006	PL007	PL008	PL009	PL010	PL011	PL012	PL013	PL014

LANDSCAPE CONSTRUCTION NOTES (TYP)				QUANTITY	
ITEM	BID ITEM	DESCRIPTION	QTY	UNIT	
1.	430.50136	INSTALL 36-INCH BOX TREE PER DETAIL 1, SHEET PL501.	12	EA	
2.	430.50205	INSTALL 5-GALLON SHRUB PER DETAIL 2, SHEET PL501.	0	EA	
3.	430.53110	INSTALL 2" DEPTH GRAVEL MULCH IN ALL LANDSCAPE PLANTER AREAS PER DETAIL 3,4 SHEET PL501-SEE CIVIL PLAN FOR QUANTITIES.	-	SY	



LANDSCAPING PLAN 2

DESIGNED BY CB
DRAWN BY CB

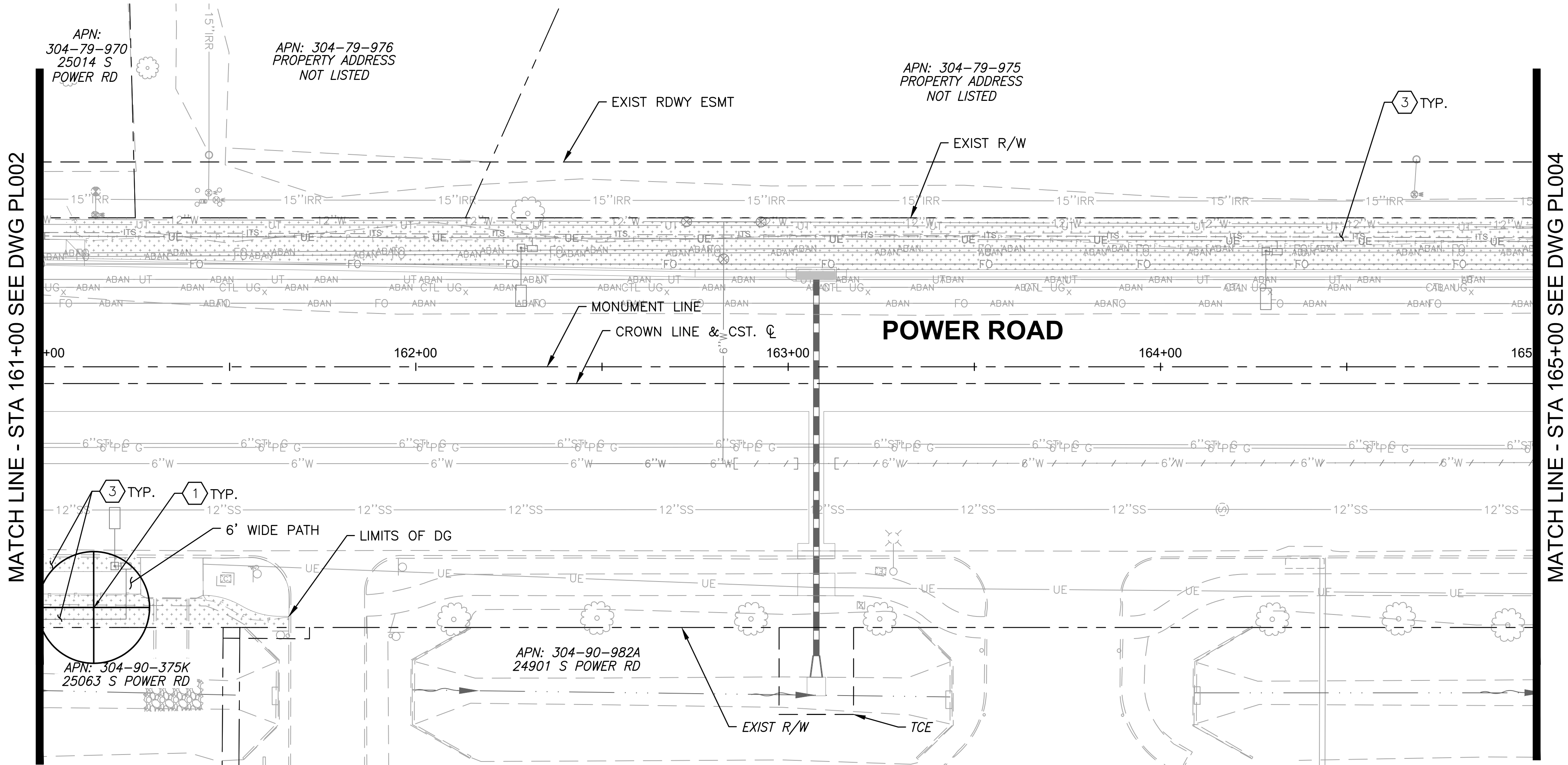
CIP PROJ NO. A1405

DRAWING NO. PL002

SHEET 117 OF 133

PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

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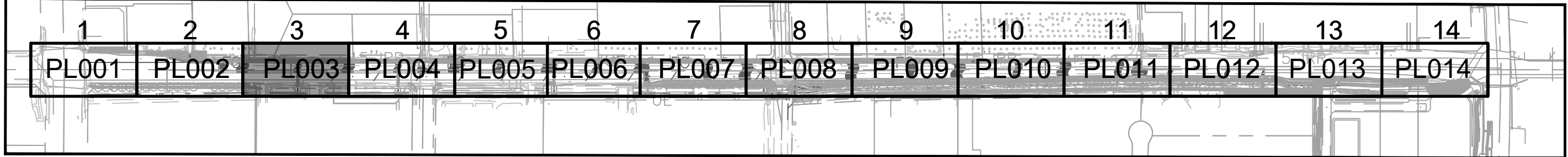
SHEET PLANT SCHEDULE				
SHRUBS			NO PRUNING!! MINIMUM SPACING FROM OTHER PLANTS	<u>PLANT SETBACK:</u> MINIMUM PLANT CENTER FROM INSIDE EDGE OF CURB OR PAVEMENT
SYMBOL	QUANTITY	BOTANICAL NAME/COMMON NAME		
⊙	0	EREMOPHILA HYGROPHANA 'BLUE BELLS BLUE BELLS EREMOPHILA	PLANT MIN. 5' APART	2'-6"
⊙	0	ERICAMERIA LARICIFOLIA 'DESERT MOUNTAIN' TURPENTINE BUSH 'DESERT MOUNTAIN'	PLANT MIN. 4' APART	2'-0"
⊕	0	LEUCOPHYLLUM LANGMANIAE 'LYNN'S LEGACY TEXAS RANGER LYNN'S LEGACY	PLANT MIN 6' APART	3'-0"
⊕	0	TEUCRIUM CHAMAERDYS GERMANDER	PLANT MIN. 3' APART	1'-6"
GROUNDCOVERS				
⊙	0	EREMOPHILA GLABRA 'MINGNEW GOLD' OUTBACK SUNRISE EMU	PLANT MIN 6' APART	3'-0"
⊕	0	LANTANA X 'NEW GOLD' NEW GOLD LANTANA	PLANT MIN 5' APART	2'-0"
SUCCULENTS				
⊙	0	HESPERALOE PARVIFLORA 'DESERT FLAMENCO' HYBRID YUCCA 'DESERT FLAMINCO'	PLANT MIN 4' APART	2'-0"

SHEET PLANT SCHEDULE				
TREES				
SYMBOL	QUANTITY	BOTANICAL NAME/COMMON NAME	SIZE	SPACING
⊕	0	PISTACIA X HYBRID 'RED PUSH' RED PUSH PISTACHE	36" BOX	30'-0"
⊕	1	ULMUS PARVIFLORA 'TRUE GREEN' TRUE GREEN ELM	36" BOX	30'-0"

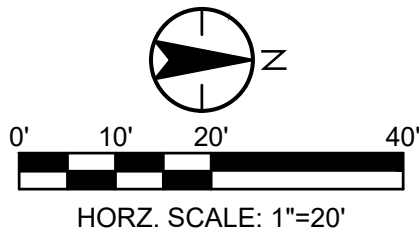
LANDSCAPE ROCK	
KEY:	DESCRIPTION
⊕	GRAVEL MULCH GROUNDCOVER: 1/2" SCREENED, 2" DEPTH PER DETAIL 2,3 SHEET PL501-SEE CIVIL PLANS FOR QUANTITIES

NOTE: PLANT MATERIAL TOTAL
QUANTITIES FOR PROJECT SHALL
TAKE PRECEDENCE OVER QUANTITIES
LISTED ON EACH LANDSCAPE PLAN
WHEN ADDED TOGETHER.

SHEET KEYMAP



LANDSCAPE CONSTRUCTION NOTES (TYP)			QUANTITY	
ITEM	BID ITEM	DESCRIPTION	QTY	UNIT
1.	430.50136	INSTALL 36-INCH BOX TREE PER DETAIL 1, SHEET PL501.	1	EA
2.	430.50205	INSTALL 5-GALLON SHRUB PER DETAIL 2, SHEET PL501.	0	EA
3.	430.53110	INSTALL 2" DEPTH GRAVEL MULCH IN ALL LANDSCAPE PLANTER AREAS PER DETAIL 3,4 SHEET PL501-SEE CIVIL PLAN FOR QUANTITIES.	-	SY



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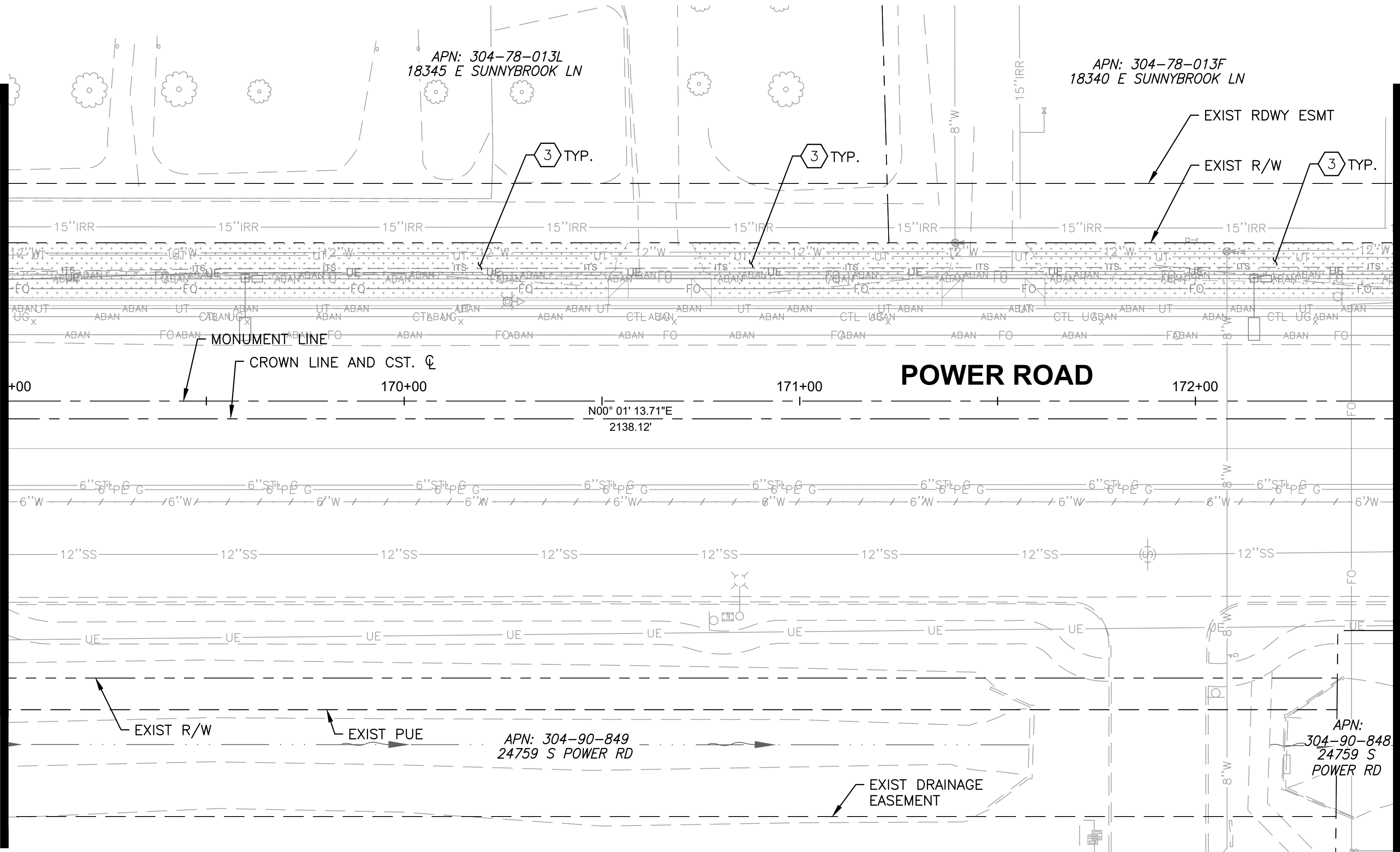
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MATCH LINE - STA 169+00 SEE DWG PL004



MATCH LINE - STA 172+50 SEE DWG PL006

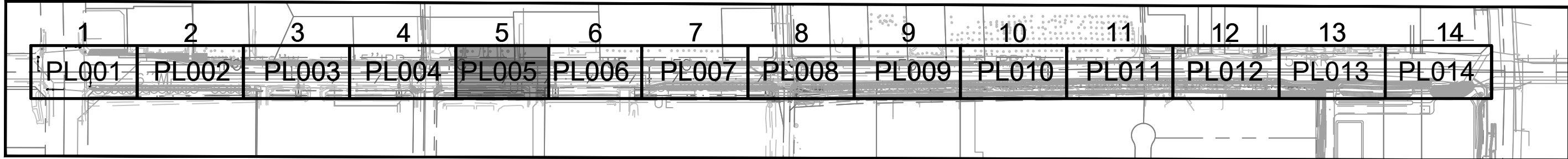
SHEET PLANT SCHEDULE				
SHRUBS			NO PRUNING!! MINIMUM SPACING FROM OTHER PLANTS	PLANT SETBACK: MINIMUM PLANT CENTER FROM INSIDE EDGE OF CURB OR PAVEMENT
SYMBOL	QUANTITY	BOTANICAL NAME/COMMON NAME		
	0	EREMOPHILA HYGROPHANA 'BLUE BELLS BLUE BELLS EREMOPHILA	PLANT MIN. 5' APART	2'-6"
	0	ERICAMERIA LARICIFOLIA 'DESERT MOUNTAIN' TURPENTINE BUSH 'DESERT MOUNTAIN'	PLANT MIN. 4' APART	2'-0"
	0	LEUCOPHYLLUM LANGMANIAE 'LYNN'S LEGACY' TEXAS RANGER LYNN'S LEGACY	PLANT MIN 6' APART	3'-0"
	0	TEUCRIUM CHAMAERDYS GERMANDER	PLANT MIN. 3' APART	1'-6"
GROUNDCOVERS				
	0	EREMOPHILA GLABRA 'MINGNEW GOLD' OUTBACK SUNRISE EMU	PLANT MIN 6' APART	3'-0"
	0	LANTANA X 'NEW GOLD' NEW GOLD LANTANA	PLANT MIN 5' APART	2'-0"
SUCCULENTS				
	0	HESPERALOE PARVIFLORA 'DESERT FLAMENCO' HYBRID YUCCA 'DESERT FLAMINCO'	PLANT MIN 4' APART	2'-0"

SHEET PLANT SCHEDULE				
TREES				
SYMBOL	QUANTITY	BOTANICAL NAME/COMMON NAME	SIZE	SPACING
	0	PISTACIA X HYBRID 'RED PUSH' RED PUSH PISTACHE	36" BOX	30'-0"
	0	ULMUS PARVIFLORA 'TRUE GREEN' TRUE GREEN ELM	36" BOX	30'-0"

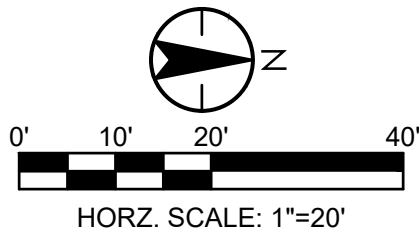
LANDSCAPE ROCK	
KEY:	DESCRIPTION
	GRAVEL MULCH GROUNDCOVER: 1/2" SCREENED, 2" DEPTH PER DETAIL 2,3 SHEET PL501-SEE CIVIL PLANS FOR QUANTITIES

NOTE: PLANT MATERIAL TOTAL
QUANTITIES FOR PROJECT SHALL
TAKE PRECEDENCE OVER QUANTITIES
LISTED ON EACH LANDSCAPE PLAN
WHEN ADDED TOGETHER.

SHEET KEYMAP



LANDSCAPE CONSTRUCTION NOTES (TYP)				QUANTITY	
ITEM	BID ITEM	DESCRIPTION	QTY	UNIT	
1.	430.50136	INSTALL 36-INCH BOX TREE PER DETAIL 1, SHEET PL501.	0	EA	
2.	430.50205	INSTALL 5-GALLON SHRUB PER DETAIL 2, SHEET PL501.	0	EA	
3.	430.53110	INSTALL 2" DEPTH GRAVEL MULCH IN ALL LANDSCAPE PLANTER AREAS PER DETAIL 3,4 SHEET PL501-SEE CIVIL PLAN FOR QUANTITIES.	-	SY	



Contact Arizona 811 at least two full
working days before you begin excavation
Call 811 or click Arizona811.com

TOWN OF
QUEEN CREEK

POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS

3133 West Frye Road
Chandler, Arizona 85226
Tel. 480.687.6100
www.stantec.com

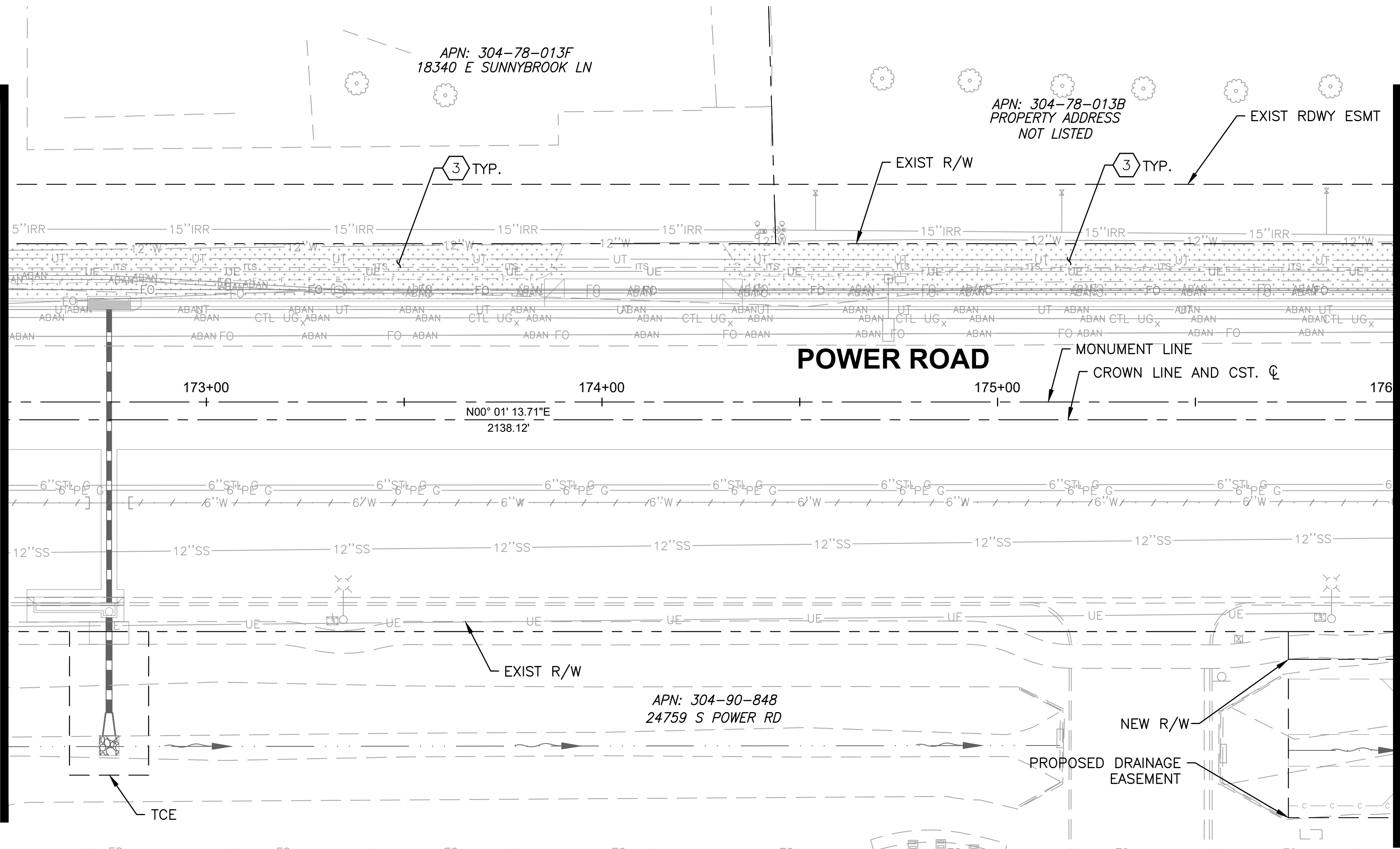
LANDSCAPING PLAN 5

DESIGNED BY	CB	CIP PROJ NO. A1405	
DRAWN BY	CB		
DRAWING NO.		PL005	SHEET 120 OF 133

PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

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MATCH LINE - STA 172+50 SEE DWG PL005



MATCH LINE - STA 176+00 SEE DWG PL007

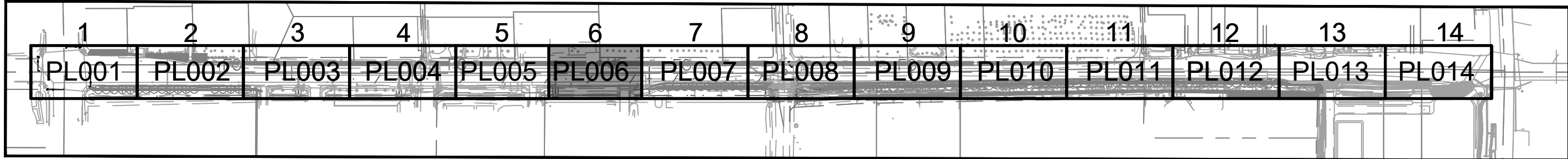
SHEET PLANT SCHEDULE				
SHRUBS			NO PRUNING!! MINIMUM SPACING FROM OTHER PLANTS	PLANT SETBACK: MINIMUM PLANT CENTER FROM INSIDE EDGE OF CURB OR PAVEMENT
SYMBOL	QUANTITY	BOTANICAL NAME/COMMON NAME		
	0	EREMOPHILA HYGROPHANA 'BLUE BELLS BLUE BELLS EREMOPHILA	PLANT MIN. 5' APART	2'-6"
	0	ERICAMERIA LARICIFOLIA 'DESERT MOUNTAIN' TURPENTINE BUSH 'DESERT MOUNTAIN'	PLANT MIN. 4' APART	2'-0"
	0	LEUCOPHYLLUM LANGMANIAE 'LYNN'S LEGACY' TEXAS RANGER LYNN'S LEGACY	PLANT MIN 6' APART	3'-0"
	0	TEUCRIUM CHAMAERDYS GERMANDER	PLANT MIN. 3' APART	1'-6"
GROUNDCOVERS				
	0	EREMOPHILA GLABRA 'MINGNEW GOLD' OUTBACK SUNRISE EMU	PLANT MIN 6' APART	3'-0"
	0	LANTANA X 'NEW GOLD' NEW GOLD LANTANA	PLANT MIN 5' APART	2'-0"
SUCCULENTS				
	0	HESPERALOE PARVIFLORA 'DESERT FLAMENCO' HYBRID YUCCA 'DESERT FLAMINCO'	PLANT MIN 4' APART	2'-0"

SHEET PLANT SCHEDULE				
TREES				
SYMBOL	QUANTITY	BOTANICAL NAME/COMMON NAME	SIZE	SPACING
	0	PISTACIA X HYBRID 'RED PUSH' RED PUSH PISTACHE	36" BOX	30'-0"
	0	ULMUS PARVIFLORA 'TRUE GREEN' TRUE GREEN ELM	36" BOX	30'-0"

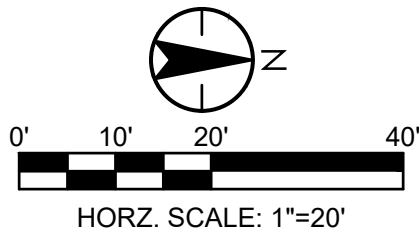
LANDSCAPE ROCK	
KEY:	DESCRIPTION
	GRAVEL MULCH GROUNDCOVER: 1/2" SCREENED, 2" DEPTH PER DETAIL 2,3 SHEET PL501-SEE CIVIL PLANS FOR QUANTITIES

NOTE: PLANT MATERIAL TOTAL
QUANTITIES FOR PROJECT SHALL
TAKE PRECEDENCE OVER QUANTITIES
LISTED ON EACH LANDSCAPE PLAN
WHEN ADDED TOGETHER.

SHEET KEYMAP



LANDSCAPE CONSTRUCTION NOTES (TYP)				QUANTITY	
ITEM	BID ITEM	DESCRIPTION	QTY	UNIT	
1.	430.50136	INSTALL 36-INCH BOX TREE PER DETAIL 1, SHEET PL501.	0	EA	
2.	430.50205	INSTALL 5-GALLON SHRUB PER DETAIL 2, SHEET PL501.	0	EA	
3.	430.53110	INSTALL 2" DEPTH GRAVEL MULCH IN ALL LANDSCAPE PLANTER AREAS PER DETAIL 3,4 SHEET PL501-SEE CIVIL PLAN FOR QUANTITIES.	-	SY	



Contact Arizona 811 at least two full
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**TOWN OF
QUEEN CREEK**

POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS

3133 West Frye Road
Chandler, Arizona 85226
Tel. 480.687.6100
www.stantec.com

LANDSCAPING PLAN 6

DESIGNED BY CB

DRAWN BY CB

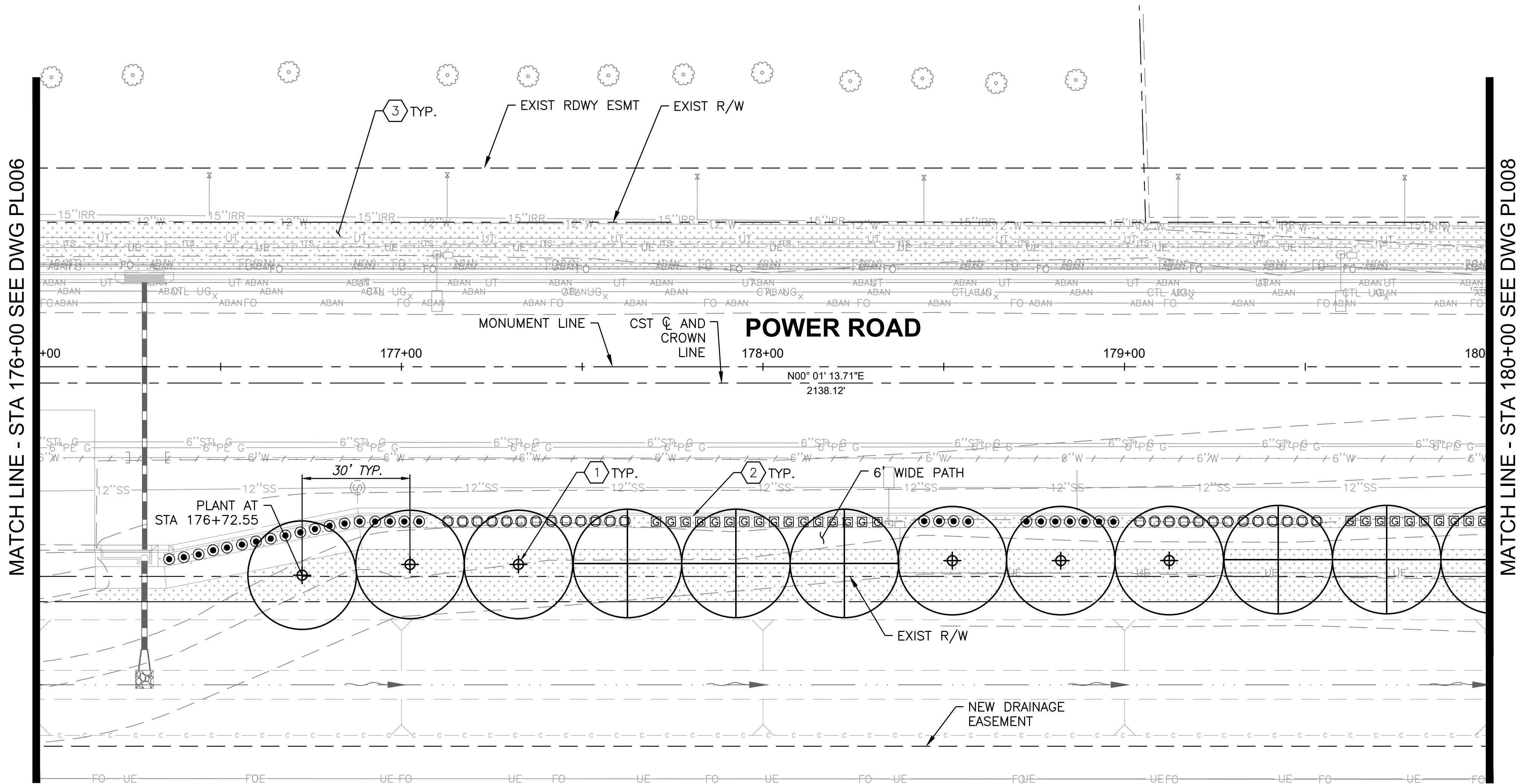
CIP PROJ NO. A1405

DRAWING NO. PL006

SHEET 121 OF 133

PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

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SHEET PLANT SCHEDULE				
SHRUBS			NO PRUNING!! MINIMUM SPACING FROM OTHER PLANTS	PLANT SETBACK: MINIMUM PLANT CENTER FROM INSIDE EDGE OF CURB OR PAVEMENT
SYMBOL	QUANTITY	BOTANICAL NAME/COMMON NAME		
⊙	0	EREMOPHILA HYGROPHANA 'BLUE BELLS BLUE BELLS EREMOPHILA	PLANT MIN. 5' APART	2'-6"
⊙	26	ERICAMERIA LARICIFOLIA 'DESERT MOUNTAIN' TURPENTINE BUSH 'DESERT MOUNTAIN'	PLANT MIN. 4' APART	2'-0"
⊕	0	LEUCOPHYLLUM LANGMANIAE 'LYNN'S LEGACY TEXAS RANGER LYNN'S LEGACY	PLANT MIN 6' APART	3'-0"
⊞	26	TEUCRIUM CHAMAERDYS GERMANDER	PLANT MIN. 3' APART	1'-6"
GROUNDCOVERS				
⊘	0	EREMOPHILA GLABRA 'MINGNEW GOLD' OUTBACK SUNRISE EMU	PLANT MIN 6' APART	3'-0"
⊕	0	LANTANA X 'NEW GOLD' NEW GOLD LANTANA	PLANT MIN 5' APART	2'-0"
SUCCULENTS				
⊙	33	HESPERALOE PARVIFLORA 'DESERT FLAMENCO' HYBRID YUCCA 'DESERT FLAMINCO'	PLANT MIN 4' APART	2'-0"

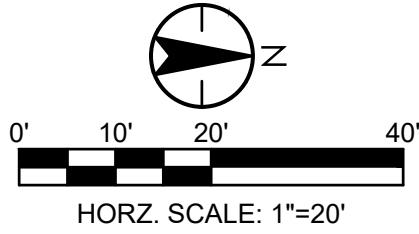
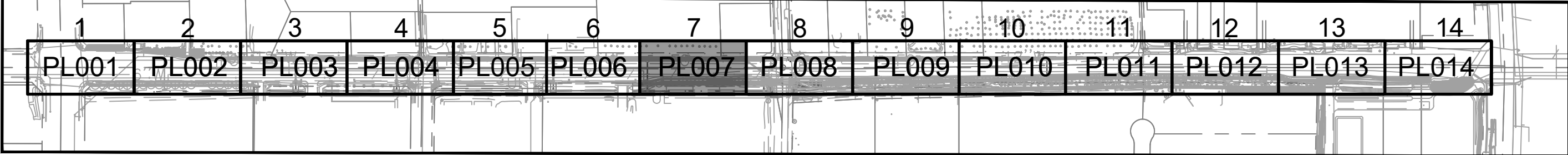
SHEET PLANT SCHEDULE				
TREES				
SYMBOL	QUANTITY	BOTANICAL NAME/COMMON NAME	SIZE	SPACING
⊙	6	PISTACIA X HYBRID 'RED PUSH' RED PUSH PISTACHE	36" BOX	30'-0"
⊙	5	ULMUS PARVIFLORA 'TRUE GREEN' TRUE GREEN ELM	36" BOX	30'-0"

LANDSCAPE ROCK	
KEY:	DESCRIPTION
	GRAVEL MULCH GROUNDCOVER: 1/2" SCREENED, 2" DEPTH PER DETAIL 2,3 SHEET PL501-SEE CIVIL PLANS FOR QUANTITIES

NOTE: PLANT MATERIAL TOTAL
QUANTITIES FOR PROJECT SHALL
TAKE PRECEDENCE OVER QUANTITIES
LISTED ON EACH LANDSCAPE PLAN
WHEN ADDED TOGETHER.

LANDSCAPE CONSTRUCTION NOTES (TYP)				QUANTITY
ITEM	BID ITEM	DESCRIPTION	QTY	UNIT
1.	430.50136	INSTALL 36-INCH BOX TREE PER DETAIL 1, SHEET PL501.	11	EA
2.	430.50205	INSTALL 5-GALLON SHRUB PER DETAIL 2, SHEET PL501.	85	EA
3.	430.53110	INSTALL 2" DEPTH GRAVEL MULCH IN ALL LANDSCAPE PLANTER AREAS PER DETAIL 3,4 SHEET PL501-SEE CIVIL PLAN FOR QUANTITIES.	-	SY

SHEET KEYMAP



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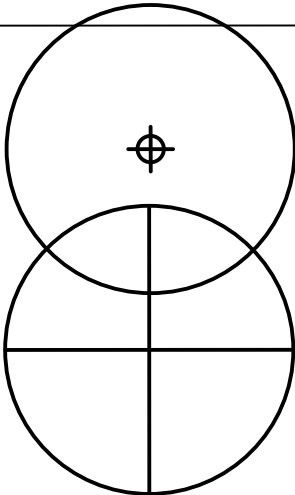
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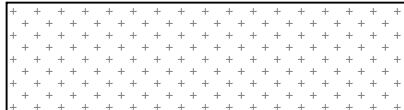
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SHEET PLANT SCHEDULE				
TREES				
SYMBOL	QUANTITY	BOTANICAL NAME/COMMON NAME	SIZE	SPACING
	6	PISTACIA X HYBRID 'RED PUSH' RED PUSH PISTACHE	36" BOX	30'-0"
	4	ULMUS PARVIFLORA 'TRUE GREEN' TRUE GREEN ELM	36" BOX	30'-0"





LANDSCAPE ROCK	
<p><u>KEY:</u></p> 	<p><u>DESCRIPTION</u></p> <p>GRAVEL MULCH GROUNDCOVER: 1/2" SCREENED, 2" DEPTH PER DETAIL 2,3 SHEET PL501-SEE CIVIL PLANS FOR QUANTITIES</p>

<p>Contact Arizona 811 at least two full working days before you begin excavation</p> <p>ARIZONA811</p> <p>Call 811 or click Arizona811.com</p>	<div data-bbox="2694 1600 2784 1679"> </div> <div data-bbox="2797 1600 3036 1679"> <h1>TOWN OF QUEEN CREEK</h1> </div>	
	<p>POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY AND DRAINAGE IMPROVEMENTS</p>	
	<div data-bbox="2694 1784 2899 1842"> <h2>Stantec</h2> </div> <div data-bbox="2927 1784 3036 1842"> <p>3133 West Frye Road Chandler, Arizona 85226 Tel. 480.687.6100 www.stantec.com</p> </div>	
<h2>LANDSCAPE PLAN 8</h2>		
DESIGNED BY	CB	CIP PROJ NO. A1405
DRAWN BY	CB	
DRAWING NO.	PL008	SHEET 123 OF 133

SHEET PLANT SCHEDULE				
TREES				
SYMBOL	QUANTITY	BOTANICAL NAME/COMMON NAME	SIZE	SPACING
	6	PISTACIA X HYBRID 'RED PUSH' RED PUSH PISTACHE	36" BOX	30'-0"
	7	ULMUS PARVIFLORA 'TRUE GREEN' TRUE GREEN ELM	36" BOX	30'-0"

LANDSCAPE CONSTRUCTION NOTES (TYP)			QUANTITY	
ITEM	BID ITEM	DESCRIPTION	QTY	UNIT
1.	430.50136	INSTALL 36-INCH BOX TREE PER DETAIL 1, SHEET PL501.	13	EA
2.	430.50205	INSTALL 5-GALLON SHRUB PER DETAIL 2, SHEET PL501.	202	EA
3.	430.53110	INSTALL 2" DEPTH GRAVEL MULCH IN ALL LANDSCAPE PLANTER AREAS PER DETAIL 3,4 SHEET PL501-SEE CIVIL PLAN FOR QUANTITIES.	-	SY

1	2	3	4	5	6	7	8	9	10	11	12	13	14
PL001	PL002	PL003	PL004	PL005	PL006	PL007	PL008	PL009	PL010	PL011	PL012	PL013	PL014

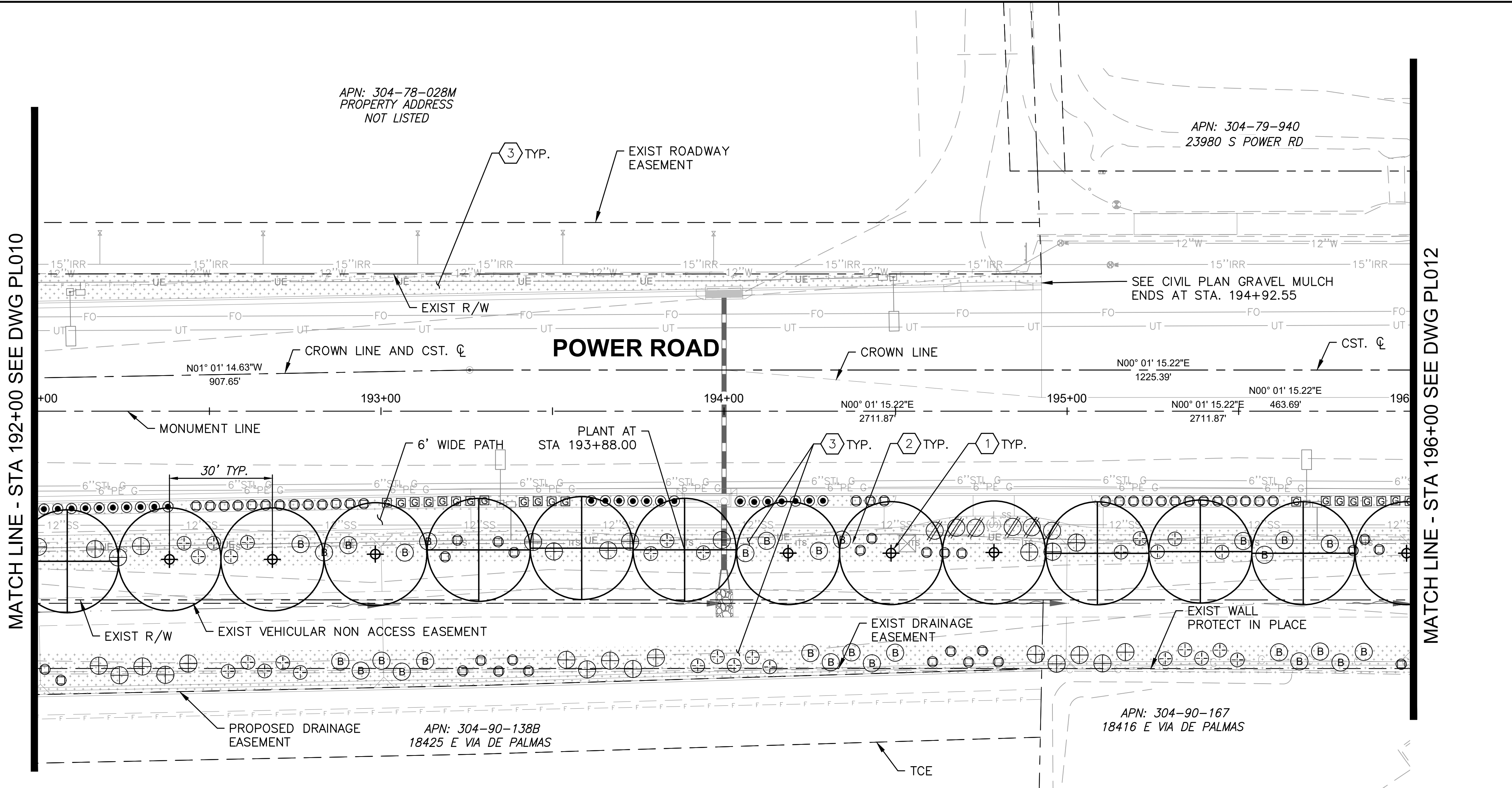
<div>Contact Arizona 811 at least two full working days before you begin excavation</div> <div></div> <div>Call 811 or click Arizona811.com</div>	<div></div>	<div>TOWN OF</div> <div>QUEEN COUNTRY</div>
<div></div>	<div>POWER ROAD:</div> <div>RIGGS ROAD TO CHANDLER HEIGHTS ROAD</div> <div>ROADWAY AND DRAINAGE IMPROVEMENTS</div>	
	<div> Stantec</div> <div>3133 West Frye Road Chandler, Arizona 85226 Tel. 480.687.6100 www.stantec.com</div>	
<div>LANDSCAPE PLAN 9</div>		
<div>DESIGNED BY</div> <div>DRAWN BY</div>	<div>CB</div> <div>CB</div>	<div>CIP PROJ NO. A1405</div>
<div>DRAWING NO.</div>	<div>PL009</div>	<div>SHEET 124 OF 133</div>



1	2	3	4	5	6	7	8	9	10	11	12	13	14
PL001	PL002	PL003	PL004	PL005	PL006	PL007	PL008	PL009	PL010	PL011	PL012	PL013	PL014

DESIGNED BY	CB	CIP PROJ NO. A1405
DRAWN BY	CB	
DRAWING NO. PL010		SHEET 125 OF 133

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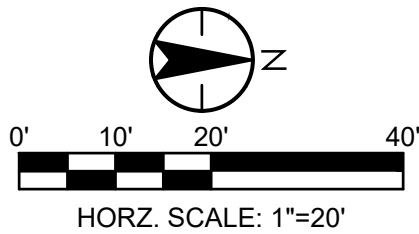
SHEET PLANT SCHEDULE				
SHRUBS			NO PRUNING!! MINIMUM SPACING FROM OTHER PLANTS	PLANT SETBACK: MINIMUM PLANT CENTER FROM INSIDE EDGE OF CURB OR PAVEMENT
SYMBOL	QUANTITY	BOTANICAL NAME/COMMON NAME		
	28	EREMOPHILA HYGROPHANA 'BLUE BELLS BLUE BELLS EREMOPHILA	PLANT MIN. 5' APART	2'-6"
	54	ERICAMERIA LARICIFOLIA 'DESERT MOUNTAIN' TURPENTINE BUSH 'DESERT MOUNTAIN'	PLANT MIN. 4' APART	2'-0"
	27	LEUCOPHYLLUM LANGMANIAE 'LYNN'S LEGACY TEXAS RANGER LYNN'S LEGACY	PLANT MIN 6' APART	3'-0"
	20	TEUCRIUM CHAMAERDYS GERMANDER	PLANT MIN. 3' APART	1'-6"
GROUNDCOVERS				
	6	EREMOPHILA GLABRA 'MINGNEW GOLD' OUTBACK SUNRISE EMU	PLANT MIN 6' APART	3'-0"
	28	LANTANA X 'NEW GOLD' NEW GOLD LANTANA	PLANT MIN 5' APART	2'-0"
SUCCULENTS				
	24	HESPERALOE PARVIFLORA 'DESERT FLAMENCO' HYBRID YUCCA 'DESERT FLAMINCO'	PLANT MIN 4' APART	2'-0"

SHEET PLANT SCHEDULE				
TREES				
SYMBOL	QUANTITY	BOTANICAL NAME/COMMON NAME	SIZE	SPACING
	7	PISTACIA X HYBRID 'RED PUSH' RED PUSH PISTACHE	36" BOX	30'-0"
	7	ULMUS PARVIFLORA 'TRUE GREEN' TRUE GREEN ELM	36" BOX	30'-0"

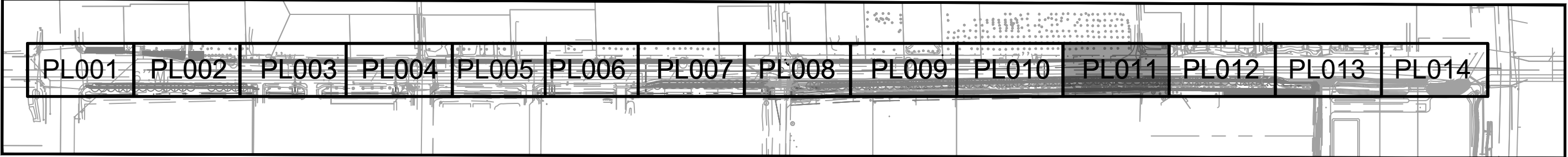
LANDSCAPE ROCK	
KEY:	DESCRIPTION
	GRAVEL MULCH GROUNDCOVER: 1/2" SCREENED, 2" DEPTH PER DETAIL 2,3 SHEET PL501-SEE CIVIL PLANS FOR QUANTITIES

NOTE: PLANT MATERIAL TOTAL
QUANTITIES FOR PROJECT SHALL
TAKE PRECEDENCE OVER QUANTITIES
LISTED ON EACH LANDSCAPE PLAN
WHEN ADDED TOGETHER.

LANDSCAPE CONSTRUCTION NOTES (TYP)				QUANTITY
ITEM	BID ITEM	DESCRIPTION	QTY	UNIT
1.	430.50136	INSTALL 36-INCH BOX TREE PER DETAIL 1, SHEET PL501.	14	EA
2.	430.50205	INSTALL 5-GALLON SHRUB PER DETAIL 2, SHEET PL501.	187	EA
3.	430.53110	INSTALL 2" DEPTH GRAVEL MULCH IN ALL LANDSCAPE PLANTER AREAS PER DETAIL 3,4 SHEET PL501-SEE CIVIL PLAN FOR QUANTITIES.	-	SY



SHEET KEYMAP



Contact Arizona 811 at least two full
working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

**TOWN OF
QUEEN CREEK**

**CARY K.
BAIRD**
10-03-2025
STATE OF ARIZONA U.S.A.

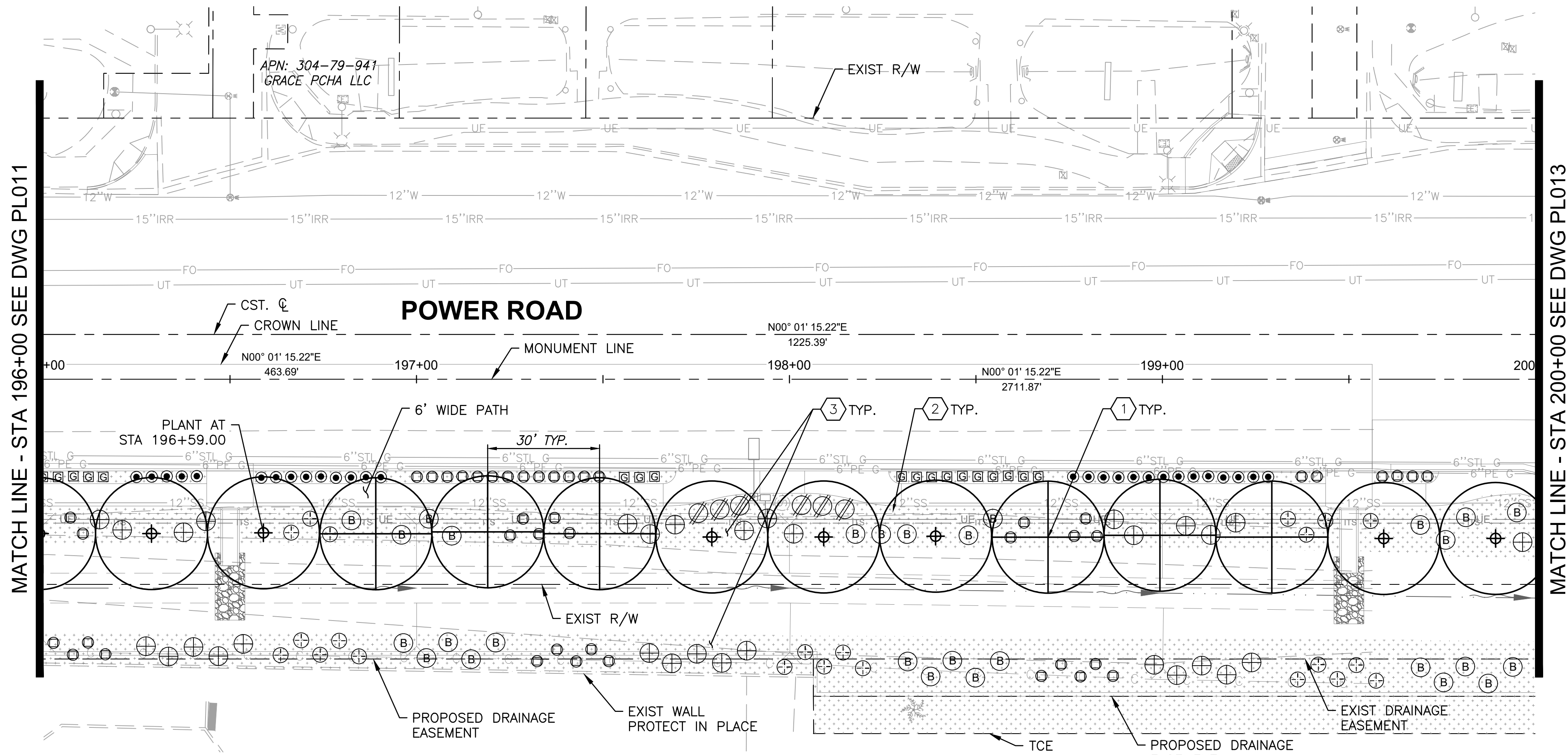
POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS
Stantec
3133 West Frye Road
Chandler, Arizona 85226
Tel. 480.687.6100
www.stantec.com

LANDSCAPE PLAN 11

DESIGNED BY: CB	CIP PROJ NO. A1405
DRAWN BY: CB	
DRAWING NO. PL011	SHEET 126 OF 133

PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

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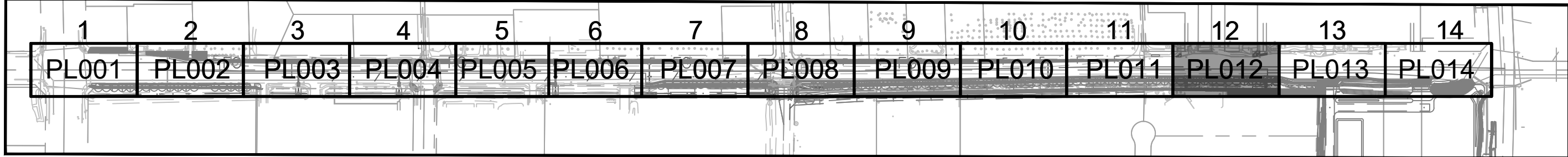
SHEET PLANT SCHEDULE				
SHRUBS			NO PRUNING!! MINIMUM SPACING FROM OTHER PLANTS	PLANT SETBACK: MINIMUM PLANT CENTER FROM INSIDE EDGE OF CURB OR PAVEMENT
SYMBOL	QUANTITY	BOTANICAL NAME/COMMON NAME		
⊗	28	EREMOPHILA HYGROPHANA 'BLUE BELLS BLUE BELLS EREMOPHILA		
⊙	45	ERICAMERIA LARICIFOLIA 'DESERT MOUNTAIN' TURPENTINE BUSH 'DESERT MOUNTAIN'		
⊕	31	LEUCOPHYLLUM LANGMANIAE 'LYNN'S LEGACY TEXAS RANGER LYNN'S LEGACY		
⊞	17	TEUCRIUM CHAMAERDYS GERMANDER	PLANT MIN. 3' APART	1'-6"
GROUNDCOVERS				
⊘	6	EREMOPHILA GLABRA 'MINGNEW GOLD' OUTBACK SUNRISE EMU	PLANT MIN 6' APART	3'-0"
⊕	22	LANTANA X 'NEW GOLD' NEW GOLD LANTANA	PLANT MIN 5' APART	2'-0"
SUCCULENTS				
⊙	28	HESPERALOE PARVIFLORA 'DESERT FLAMENCO' HYBRID YUCCA 'DESERT FLAMINCO'	PLANT MIN 4' APART	2'-0"

SHEET PLANT SCHEDULE				
TREES				
SYMBOL	QUANTITY	BOTANICAL NAME/COMMON NAME	SIZE	SPACING
⊕	7	PISTACIA X HYBRID 'RED PUSH' RED PUSH PISTACHE	36" BOX	30'-0"
⊕	6	ULMUS PARVIFLORA 'TRUE GREEN' TRUE GREEN ELM	36" BOX	30'-0"

LANDSCAPE ROCK	
KEY:	DESCRIPTION
	GRAVEL MULCH GROUNDCOVER: 1/2" SCREENED, 2" DEPTH PER DETAIL 2,3 SHEET PL501-SEE CIVIL PLANS FOR QUANTITIES

NOTE: PLANT MATERIAL TOTAL
QUANTITIES FOR PROJECT SHALL
TAKE PRECEDENCE OVER QUANTITIES
LISTED ON EACH LANDSCAPE PLAN
WHEN ADDED TOGETHER.

SHEET KEYMAP



LANDSCAPE CONSTRUCTION NOTES (TYP)				QUANTITY
ITEM	BID ITEM	DESCRIPTION	QTY	UNIT
1.	430.50136	INSTALL 36-INCH BOX TREE PER DETAIL 1, SHEET PL501.	13	EA
2.	430.50205	INSTALL 5-GALLON SHRUB PER DETAIL 2, SHEET PL501.	177	EA
3.	430.53110	INSTALL 2" DEPTH GRAVEL MULCH IN ALL LANDSCAPE PLANTER AREAS PER DETAIL 3,4 SHEET PL501-SEE CIVIL PLAN FOR QUANTITIES.	-	SY

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**TOWN OF
QUEEN CREEK**

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RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS

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Tel. 480.687.6100
www.stantec.com

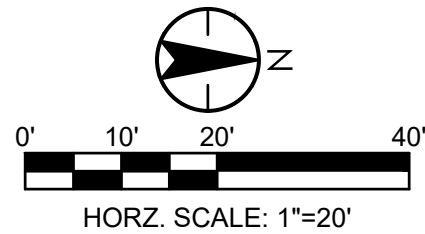
LANDSCAPE PLAN 12

DESIGNED BY: CB
DRAWN BY: CB

CIP PROJ NO. A1405

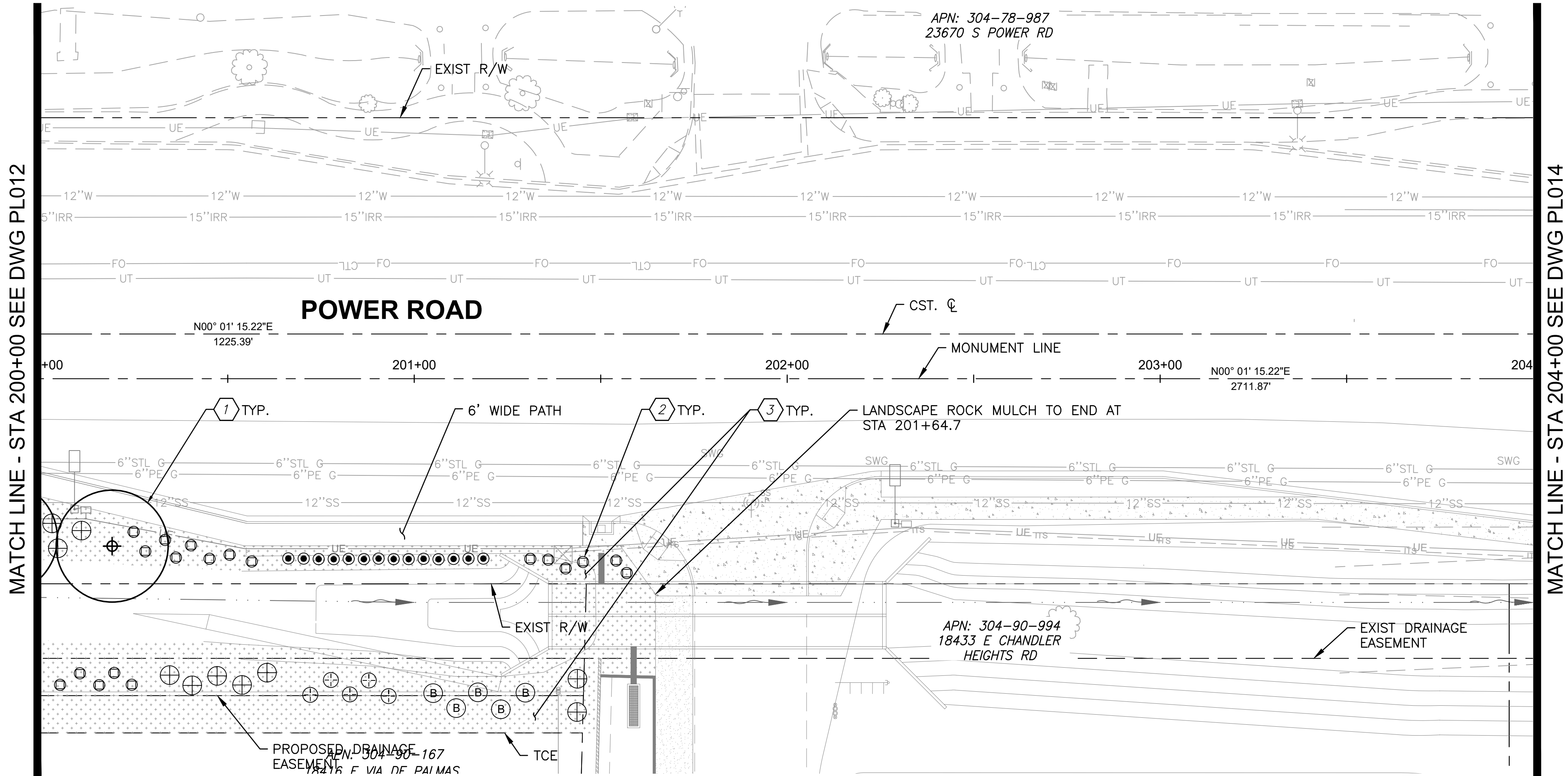
DRAWING NO. PL012

SHEET 127 OF 133



PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

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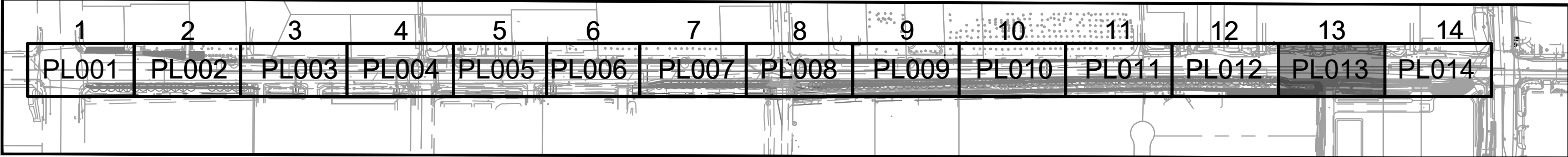
SHEET PLANT SCHEDULE				
SHRUBS				
SYMBOL	QUANTITY	BOTANICAL NAME/COMMON NAME	NO PRUNING!! MINIMUM SPACING FROM OTHER PLANTS	PLANT SETBACK: MINIMUM PLANT CENTER FROM INSIDE EDGE OF CURB OR PAVEMENT
	5	EREMOPHILA HYGROPHANA 'BLUE BELLS BLUE BELLS EREMOPHILA	PLANT MIN. 5' APART	2'-6"
	18	ERICAMERIA LARICIFOLIA 'DESERT MOUNTAIN' TURPENTINE BUSH 'DESERT MOUNTAIN'	PLANT MIN. 4' APART	2'-0"
	10	LEUCOPHYLLUM LANGMANIAE 'LYNN'S LEGACY TEXAS RANGER LYNN'S LEGACY	PLANT MIN 6' APART	3'-0"
	0	TEUCRIUM CHAMAERDYS GERMANDER	PLANT MIN. 3' APART	1'-6"
GROUNDCOVERS				
	0	EREMOPHILA GLABRA 'MINGNEW GOLD' OUTBACK SUNRISE EMU	PLANT MIN 6' APART	3'-0"
	5	LANTANA X 'NEW GOLD' NEW GOLD LANTANA	PLANT MIN 5' APART	2'-0"
SUCCULENTS				
	14	HESPERALOE PARVIFLORA 'DESERT FLAMENCO' HYBRID YUCCA 'DESERT FLAMINCO'	PLANT MIN 4' APART	2'-0"

SHEET PLANT SCHEDULE				
TREES				
SYMBOL	QUANTITY	BOTANICAL NAME/COMMON NAME	SIZE	SPACING
	1	PISTACIA X HYBRID 'RED PUSH' RED PUSH PISTACHE	36" BOX	30'-0"
	0	ULMUS PARVIFLORA 'TRUE GREEN' TRUE GREEN ELM	36" BOX	30'-0"

LANDSCAPE ROCK	
KEY:	DESCRIPTION
	GRAVEL MULCH GROUNDCOVER: 1/2" SCREENED, 2" DEPTH PER DETAIL 2,3 SHEET PL501-SEE CIVIL PLANS FOR QUANTITIES

NOTE: PLANT MATERIAL TOTAL
QUANTITIES FOR PROJECT SHALL
TAKE PRECEDENCE OVER QUANTITIES
LISTED ON EACH LANDSCAPE PLAN
WHEN ADDED TOGETHER.

SHEET KEYMAP



LANDSCAPE CONSTRUCTION NOTES (TYP)				QUANTITY	
ITEM	BID ITEM	DESCRIPTION	QTY	UNIT	
1.	430.50136	INSTALL 36-INCH BOX TREE PER DETAIL 1, SHEET PL501.	1	EA	
2.	430.50205	INSTALL 5-GALLON SHRUB PER DETAIL 2, SHEET PL501.	52	EA	
3.	430.53110	INSTALL 2" DEPTH GRAVEL MULCH IN ALL LANDSCAPE PLANTER AREAS PER DETAIL 3,4 SHEET PL501-SEE CIVIL PLAN FOR QUANTITIES.	-	SY	

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working days before you begin excavation
Call 811 or click Arizona811.com

TOWN OF
QUEEN CREEK

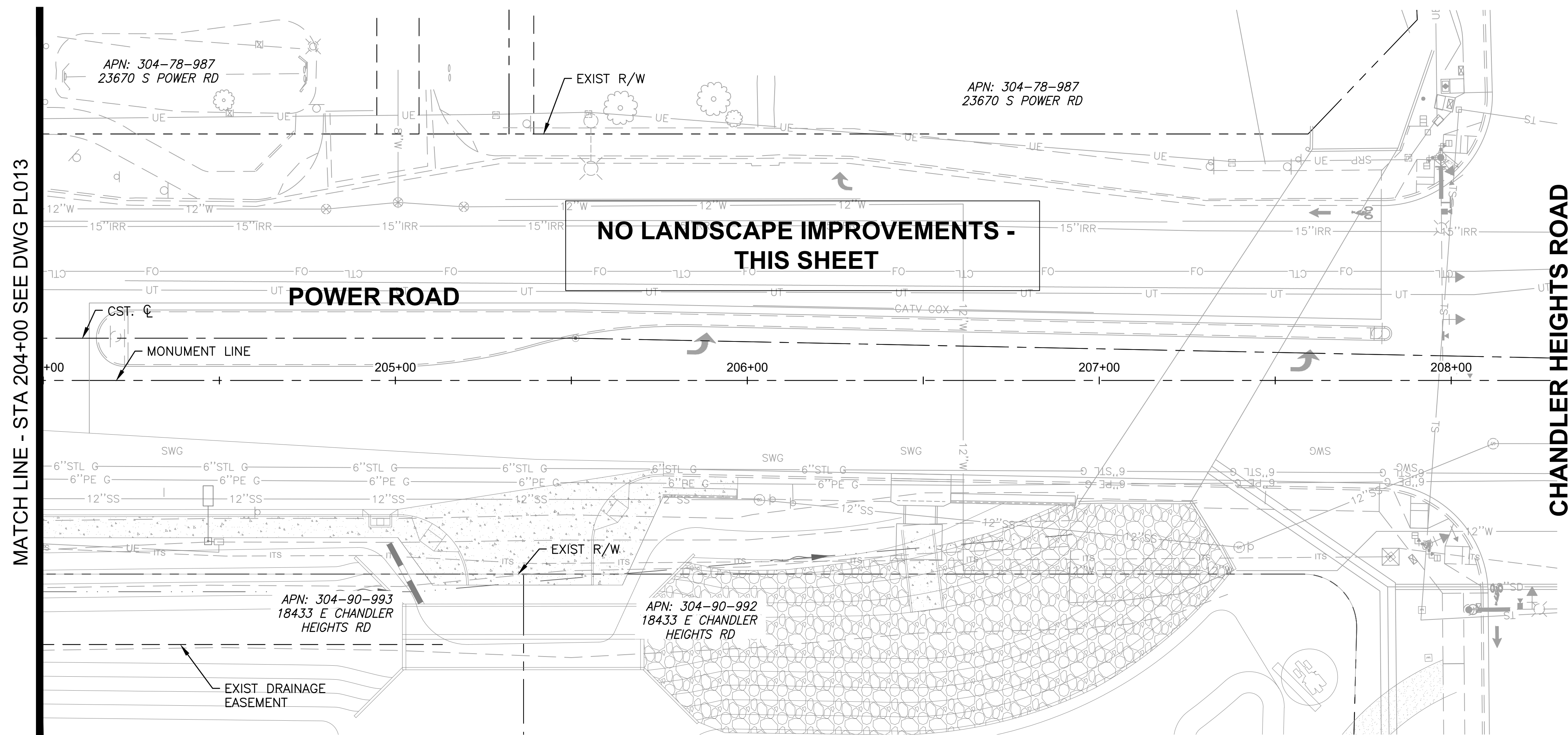
126634
CARY K.
BAIRD

POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS

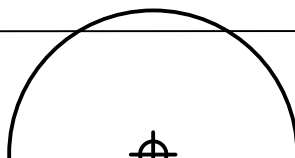
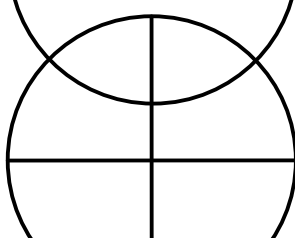
3133 West Frye Road
Chandler, Arizona 85226
Tel. 480.487.6100
www.stantec.com

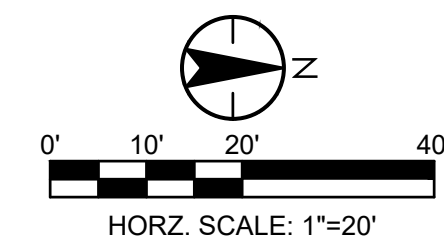
LANDSCAPE PLAN 13		
DESIGNED BY	CB	CIP PROJ NO. A1405
DRAWN BY	CB	
DRAWING NO. PL013		SHEET 128 OF 133





PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

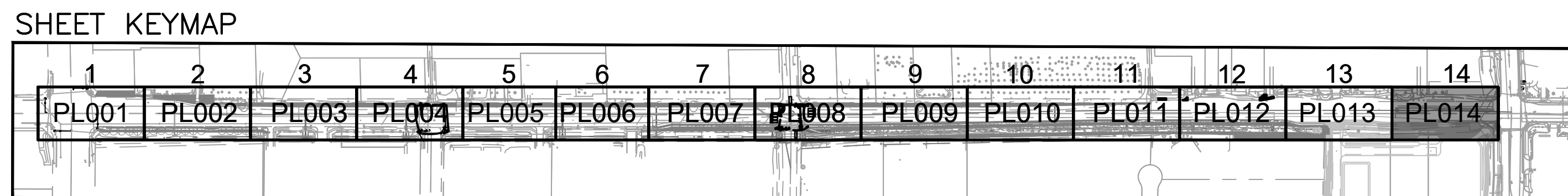


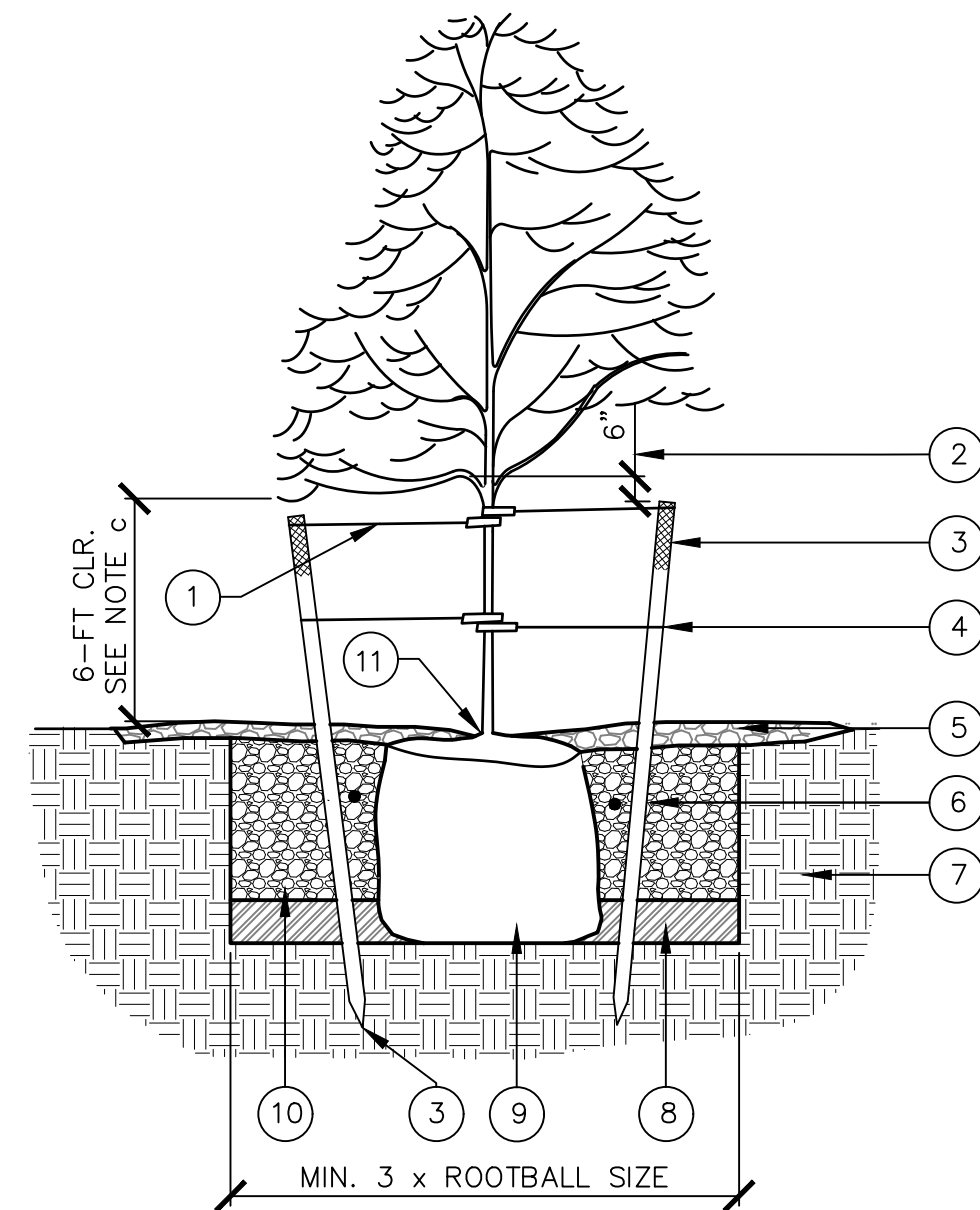
SHEET PLANT SCHEDULE				
SHRUBS			NO PRUNING!! MINIMUM SPACING FROM OTHER PLANTS	<u>PLANT SETBACK:</u> <u>MINIMUM PLANT CENTER</u> <u>FROM INSIDE EDGE OF</u> <u>CURB OR PAVEMENT</u>
SYMBOL	QUANTITY	BOTANICAL NAME/COMMON NAME		
⊖	0	EREMOPHILA HYGROPHANA 'BLUE BELLS BLUE BELLS EREMOPHILA	PLANT MIN. 5' APART	2'-6"
⊙	0	ERICAMERIA LARICIFOLIA 'DESERT MOUNTAIN' TURPENTINE BUSH 'DESERT MOUNTAIN'	PLANT MIN. 4' APART	2'-0"
⊕	0	LEUCOPHYLLUM LANGMANIAE 'LYNN'S LEGACY TEXAS RANGER LYNN'S LEGACY	PLANT MIN 6' APART	3'-0"
⊞	0	TEUCRIUM CHAMAERDYS GERMANDER	PLANT MIN. 3' APART	1'-6"
GROUNDCOVERS				
⊘	0	EREMOPHILA GLABRA 'MINGNEW GOLD' OUTBACK SUNRISE EMU	PLANT MIN 6' APART	3'-0"
⊕	0	LANTANA X 'NEW GOLD' NEW GOLD LANTANA	PLANT MIN 5' APART	2'-0"
SUCCULENTS				
⦿	0	HESPERALOE PARVIFLORA 'DESERT FLAMENCO' HYBRID YUCCA 'DESERT FLAMINCO'	PLANT MIN 4' APART	2'-0"

SHEET PLANT SCHEDULE				
TREES				
SYMBOL	QUANTITY	BOTANICAL NAME/COMMON NAME	SIZE	SPACING
	0	PISTACIA X HYBRID 'RED PUSH' RED PUSH PISTACHE	36" BOX	30'-0"
	0	ULMUS PARVIFLORA 'TRUE GREEN' TRUE GREEN ELM	36" BOX	30'-0"



<p>Contact Arizona 811 at least two full working days before you begin excavation</p>  <p>Call 811 or click Arizona811.com</p>		<h1 style="text-align: center;">TOWN OF QUEEN CREEK</h1>	
	<p style="text-align: center;">POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY AND DRAINAGE IMPROVEMENTS</p>		
		<p style="text-align: right;">3133 West Frye Road Chandler, Arizona 85226 Tel. 480.687.6100 www.stantec.com</p>	
<h2>LANDSCAPE PLAN 14</h2>			
DESIGNED BY	CB	CIP PROJ NO. A1405	
DRAWN BY	CB		
DRAWING NO. PLO14		SHEET 129 OF 133	

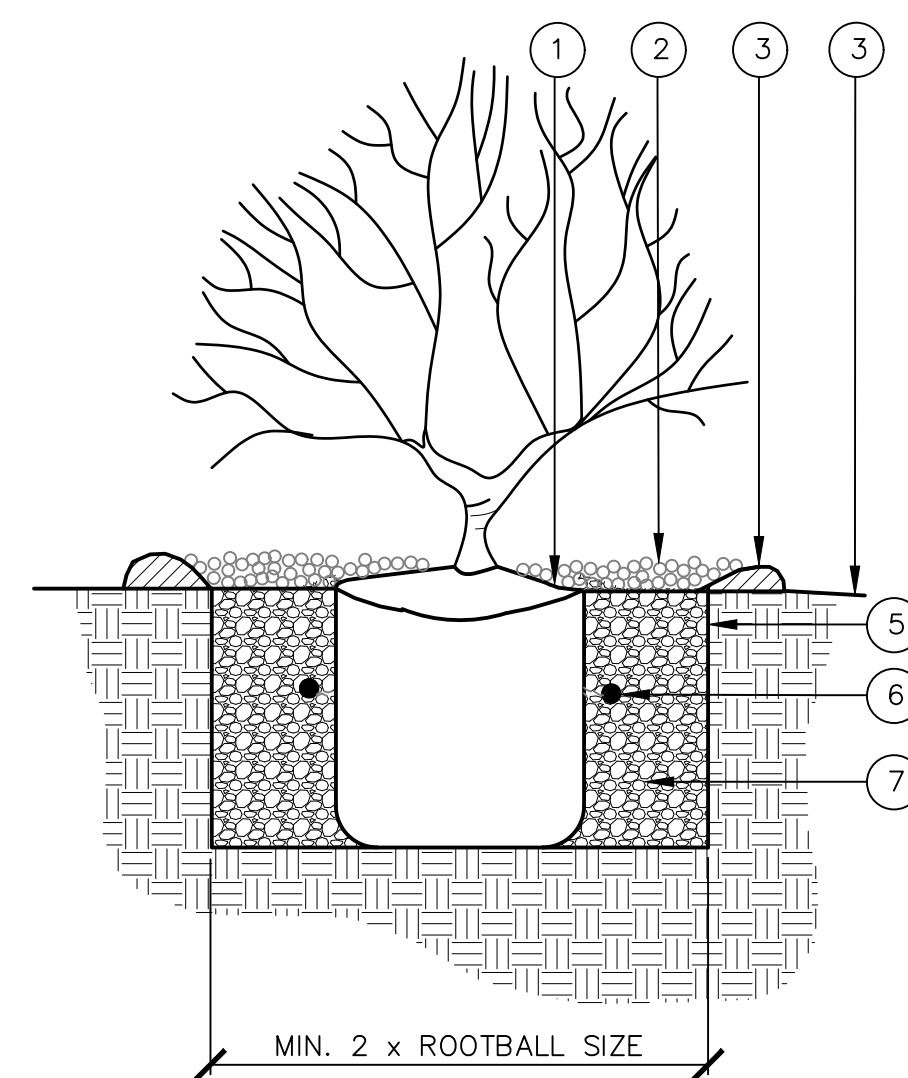




- 1 $\frac{3}{4}$ " RUBBER HOSE LOOPED WITH 12 GA. WIRE. MAINTAIN 6-4" LOOP MIN. FOR TREE GROWTH. USE 12 GA. VINYL COATED WIRE, DBL. STRAND FOR TREE TIE. STAPLE WIRE TO TREE STAKE.
 - 2 TRIM TREE STAKES 6" BELOW FIRST SCAFFOLD BRANCH.
 - 3 3" DIA. TREATED DOUGLAS FIR STAKE. DRIVE 4" MIN. INTO UNDISTURBED SOIL BELOW ROOT BALL--PLACE AT 10° ANGLE TO VERTICAL--AVOID ROOTBALL..
 - 4 MIDDLE TIES $\frac{1}{2}$ WAY BETWEEN TOP TIES AND GROUND. STAPLE WIRE TO TREE STAKES. ADD ADDITIONAL ROWS (ONLY AS NEEDED TO KEEP TRUNK STRAIGHT).
 - 5 LANDSCAPE GRAPE MULCH (DECOMPOSED GRANITE)
 - 6 FERTILIZER TABLETS, 4 TABLETS PER 15 GAL. TREE, TYP.
 - 7 UNDISTURBED SUBGRADE
 - 8 6" FOOT TAMPED SOIL AROUND THE ROOT BALL TO ENSURE PLANT STABILITY.
 - 9 ROOT BALL
 - 10 BACKFILL MIXTURE
 - 11 TOP OF ROOTBALL SHALL BE MIN. $\frac{3}{4}$ " ABOVE ADJACENT GRADE.
- NOTES:
- a. HEIGHT OF STAKE VARIES.
 - b. TOP TIE PLACED FOR MAXIMUM SUPPORT.
 - c. ALL TREES NORTH SIDE OF STREET SHALL HAVE NO BRANCHES PROTRUDING LESS THAN 6' FT FROM FINISH GRADE. SEE LANDSCAPE GENERAL NOTES.

STANDARD TRUNK TREE PLANTING

SCALE: NTS



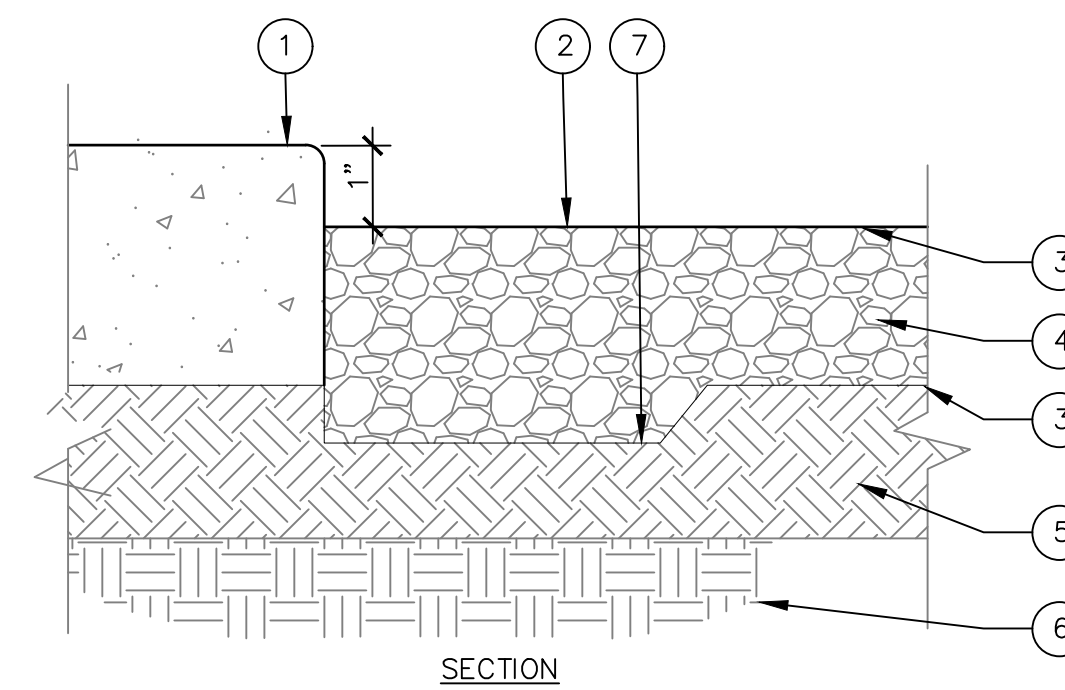
- 1 PLANT CROWN OF ROOT BALL AT FINISH GRADE.
- 2 2" GRAVEL MULCH WITH $\frac{1}{2}$ " ON ROOT BALL. TAPER TO BASE OF TRUNK.
- 3 TEMPORARY 3" HIGH BERM (REMOVE WHEN IRRIGATION IS OPERATIONAL).
- 4 MAXIMUM 3:1 SLOPE ON DECOMPOSED GRANITE, 4:1 SLOPE ON TURF AREAS.
- 5 SCARIFY SIDES OF HOLE PRIOR TO PLANTING.
- 6 FERTILIZER TABLETS.
- 7 BACKFILL MIXTURE.

NOTES:

- a. WHEN SHRUB IS PLANTED ON A SLOPE, IRRIGATION EMITTERS ARE TO BE INSTALLED ON THE UPHILL SIDE.
- b. DO NOT PLACE TOPSOIL OR FILL MATERIAL ON TOP OF ROOTBALL; TOP OF ROOTBALL TO BE $\frac{1}{2}$ " ABOVE ADJACENT GRADE.

SHRUB/GROUNDCOVER PLANTING

SCALE: NTS

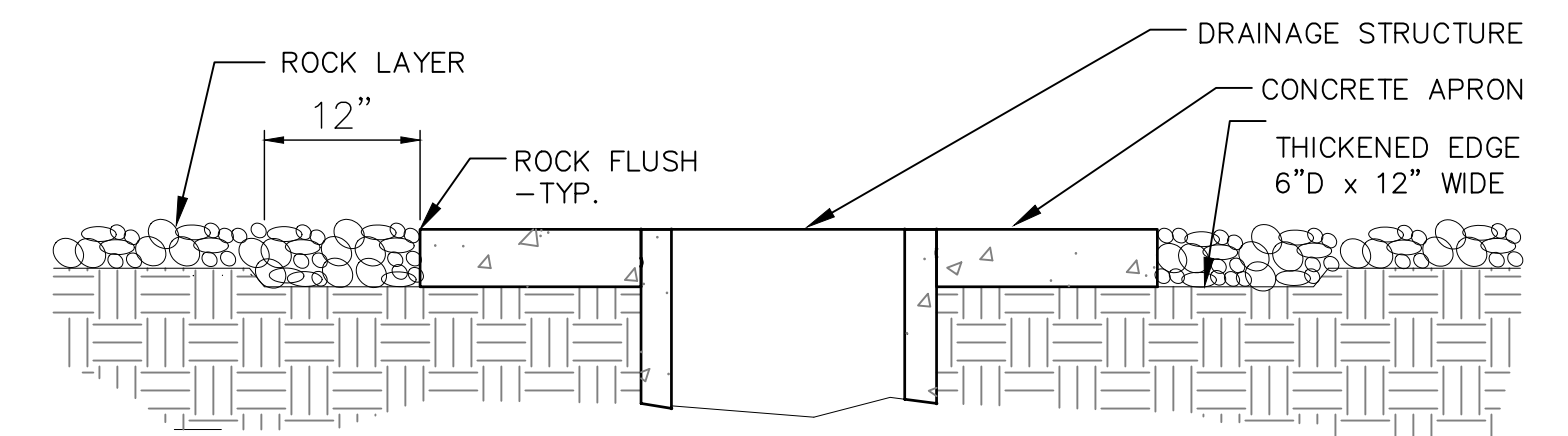


- LEGEND**
-
1. CONCRETE PAVING (WHERE OCCURS).
 2. FINISH GRADE.
 3. APPLY PRE-EMERGENT HERBICIDE ABOVE AND BELOW D.G.
 4. DECOMPOSED GRANITE (D.G.) 1" FROM TOP OF CONCRETE. SEE PLANS/SPECS FOR SIZE AND COLOR.
 5. COMPACTED SOIL (80-85%) MAX.
 6. UNDISTURBED SUBGRADE.
 7. OVER-EX TO 3" DEPTH BELOW ADJACENT F.G. X 12" FROM EDGE

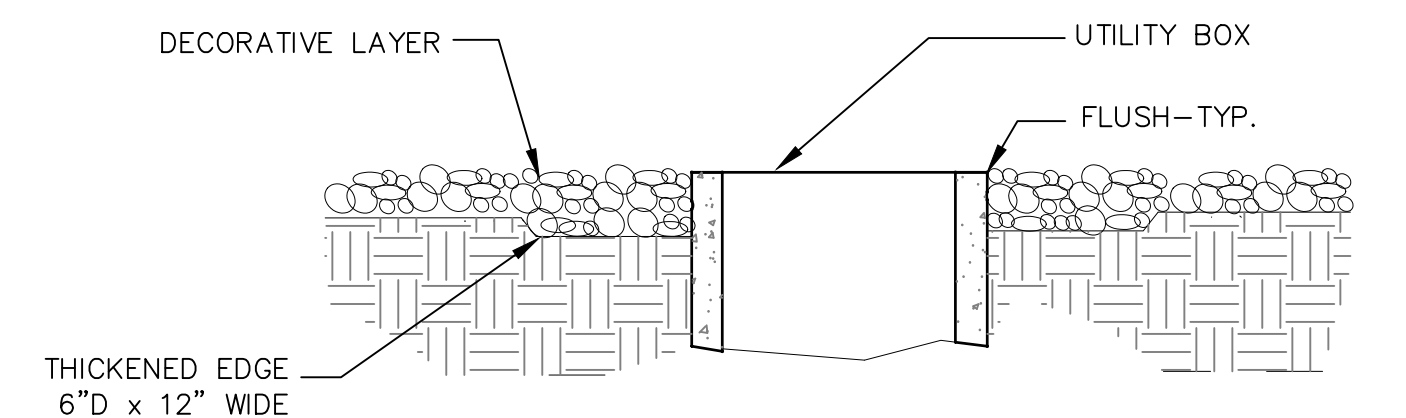
NOTES

a. ROLL AND WATER SETTLE ROCK USING MINIMUM 200LB. LANDSCAPE ROLLER OR OTHER APPROVED MEANS; AS APPROVED BY CONSTRUCTION MANAGER.

GRAVEL MULCH @ PAVEMENT EDGE

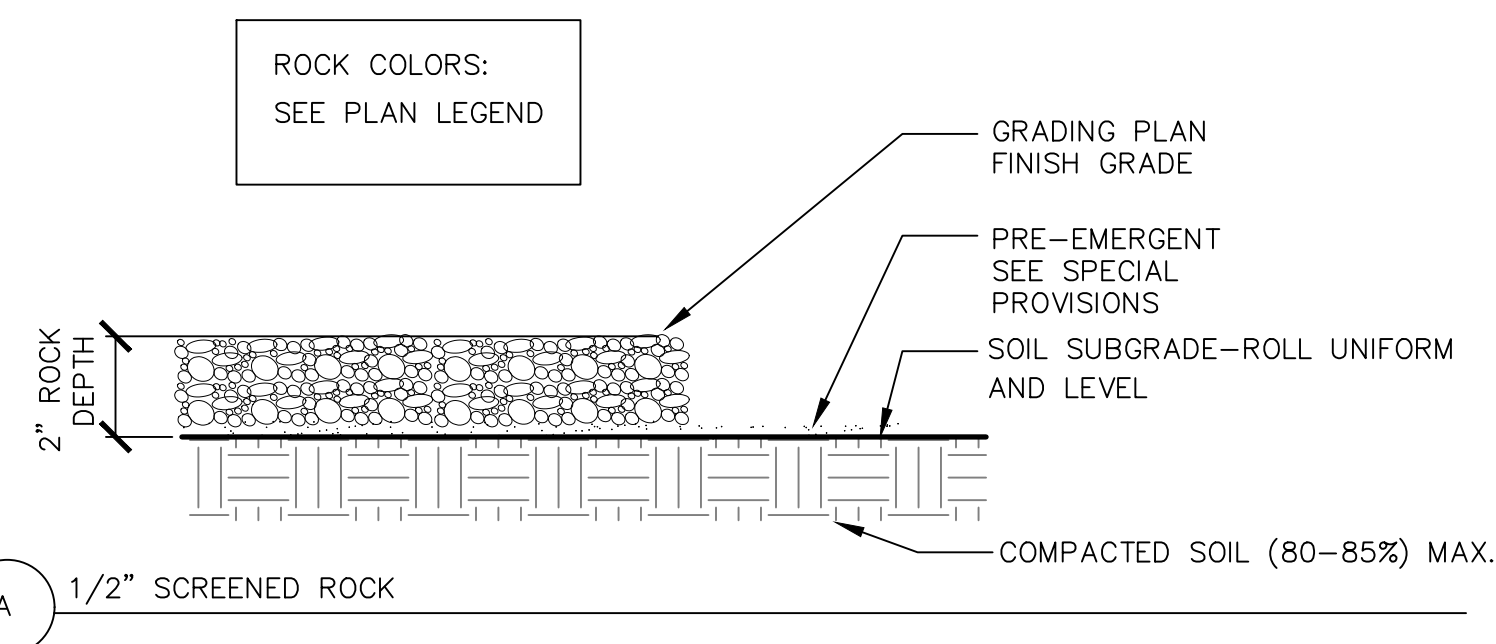


GRAVEL MULCH AT DRAINAGE INLET DETAIL



GRAVEL MULCH @ UTILITY BOX

SCALE: NTS







- GENERAL NOTES:
- a. A PRE-EMERGENT SHALL BE APPLIED TO FINISH GRADE BEFORE AND AFTER INSTALLATION OF LANDSCAPE ROCK (DECOMPOSED GRANITE) – SEE PLAN SPECS.
 - b. ALL LANDSCAPE ROCK TYPE SHALL BE PLACED ON PREPARED EXPOSED SOIL GRADES WHERE SHOWN ON THE PLANS
 - c. ALL SOIL GRADES SHALL BE UNIFORM IN APPEARANCE PRIOR TO ROCK INSTALLATION. REWORK SOIL GRADES AND COMPACT AS NEEDED TO ENSURE UNIFORMITY AND EVEN CONSISTENCY, NO RUTTING, DEPRESSIONS, HOLES, MOUNDS, ERODED AREAS, RILLS, ETC. WILL BE ACCEPTED. REPAIR AREAS AS NEEDED TO THE SATISFACTION OF LANDSCAPE ARCHITECT PRIOR TO PRE-EMERGENT AND ROCK INSTALLATION
 - d. RUT TO COMPACT AND WATER IN ALL ROCK MINUS MATERIAL AFTER INSTALLATION TO FORM CRUST

7 LANDSCAPE GRAVEL MULCH (DECOMPOSED GRANITTE)

SCALE: NTS

LANDSCAPE GRAVEL MULCH EDGE DETAILS

SCALE: NTS

<p>Contact Arizona B11 at 811 to get two full working days before you begin excavation</p>  <p>Call 811 or click Arizona811.com</p>		<h1 style="text-align: center;">TOWN OF QUEEN CREEK</h1>	
	<div style="text-align: center;"> <p>POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY AND DRAINAGE IMPROVEMENTS</p>  <p>Stantec</p> <p>3133 West Frye Road Chandler, Arizona 85226 Tel. 480.687.6100 www.stantec.com</p> </div>		
<h2 style="text-align: center;">LANDSCAPE DETAILS</h2>			
<p>DESIGNED BY CB</p>	<p>CIP PROJ NO. A1405</p>		
<p>DRAWN BY CB</p>	<p>DRAWING NO. PL501</p>	<p>SHEET 130 OF 133</p>	

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EXHIBIT A-2: EXPLORATION PLAN
Proposed Power Road Widening - Phase 3 ■ Queen Creek, Arizona
August 8, 2022 ■ Terracon Project No. 65215302



DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES
MAP PROVIDED BY MICROSOFT BING MAPS

GENERAL NOTES
DESCRIPTION OF SYMBOLS AND ABBREVIATIONS
Power Road Widening-Phase 3 ■ Queens Creek, Arizona
Terracon Project No. 65215302



SAMPLING	WATER LEVEL	FIELD TESTS
Auger Cuttings Ring Sampler Standard Penetration Test	Water Initially Encountered Water Level After a Specified Period of Time Water Level After a Specified Period of Time Cave In Encountered	N Standard Penetration Test Resistance (Blows/ft.) (HP) Hand Penetrometer (T) Torvane (DCP) Dynamic Cone Penetrometer UC Unconfined Compressive Strength (PID) Photo-Ionization Detector (OVA) Organic Vapor Analyzer

DESCRIPTIVE SOIL CLASSIFICATION

Soil classification as noted on the soil boring logs is based Unified Soil Classification System. Where sufficient laboratory data exist to classify the soils consistent with ASTM D2487 "Classification of Soils for Engineering Purposes" this procedure is used. ASTM D2488 "Description and Identification of Soils (Visual-Manual Procedure)" is also used to classify the soils, particularly where insufficient laboratory data exist to classify the soils in accordance with ASTM D2487. In addition to USCS classification, coarse grained soils are classified on the basis of their in-place relative density, and fine-grained soils are classified on the basis of their consistency. See "Strength Terms" table below for details. The ASTM standards noted above are for reference to methodology in general. In some cases, variations to methods are applied as a result of local practice or professional judgment.

LOCATION AND ELEVATION NOTES

Exploration point locations as shown on the Exploration Plan and as noted on the soil boring logs in the form of Latitude and Longitude are approximate. See Exploration and Testing Procedures in the report for the methods used to locate the exploration points for this project. Surface elevation data annotated with +/- indicates that no actual topographical survey was conducted to confirm the surface elevation. Instead, the surface elevation was approximately determined from topographic maps of the area.

STRENGTH TERMS					
RELATIVE DENSITY OF COARSE-GRAINED SOILS (More than 50% retained on No. 200 sieve.) Density determined by Standard Penetration Resistance			CONSISTENCY OF FINE-GRAINED SOILS (50% or more passing the No. 200 sieve.) Consistency determined by laboratory shear strength testing, field visual-manual procedures or standard penetration resistance		
Descriptive Term (Density)	Standard Penetration or N-Value Blows/ft.	Ring Sampler Blows/ft.	Descriptive Term (Consistency)	Unconfined Compressive Strength q_u (psi)	Standard Penetration or N-Value Blows/ft. or Ring Sampler Blows/ft.
Very Loose	0 - 3	0 - 6	Very Soft	less than 3.50	0 - 1
Loose	4 - 9	7 - 18	Soft	3.5 to 7.0	2 - 4
Medium Dense	10 - 29	19 - 58	Medium Stiff	7.0 to 14.0	4 - 8
Dense	30 - 50	59 - 98	Stiff	14.0 to 28.0	8 - 15
Very Dense	> 50	> 99	Very Stiff	28.0 to 55.5	15 - 30
			Hard	> 55.5	> 30

RELEVANCE OF SOIL BORING LOG

The soil boring logs contained within this document are intended for application to the project as described in this document. Use of these soil boring logs for any other purpose may not be appropriate.

Exhibit: A-3

UNIFIED SOIL CLASSIFICATION SYSTEM



Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests ^A					Soil Classification		
					Group Symbol	Group Name ^B	
Coarse-Grained Soils: More than 50% retained on No. 200 sieve	Gravels: More than 50% of coarse fraction retained on No. 4 sieve	Clean Gravels: Less than 5% fines ^C	$C_u \geq 4$ and $1 \leq C_c \leq 3$ ^E		GW	Well-graded gravel ^F	
		Gravels with Fines: More than 12% fines ^C	$C_u < 4$ and/or $[C_c < 1 \text{ or } C_c > 3.0]$ ^E		GP	Poorly graded gravel ^F	
	Sands: 50% or more of coarse fraction passes No. 4 sieve	Clean Sands: Less than 5% fines ^D	$C_u \geq 6$ and $1 \leq C_c \leq 3$ ^E		SW	Well-graded sand ^I	
		Sands with Fines: More than 12% fines ^D	$C_u < 6$ and/or $[C_c < 1 \text{ or } C_c > 3.0]$ ^E		SP	Poorly graded sand ^I	
	Fine-Grained Soils: 50% or more passes the No. 200 sieve	Sils and Clays: Liquid limit less than 50	Inorganic:	$P_i > 7$ and plots on or above "A" line ^J		CL	Lean clay ^{K, L, M}
			Organic:	$P_i < 4$ or plots below "A" line ^J		ML	Silt ^{K, L, M}
Sils and Clays: Liquid limit 50 or more		Inorganic:	Liquid limit - oven dried	< 0.75	OL	Organic clay ^{K, L, M, N}	
			Liquid limit - not dried	< 0.75	SM	Organic silt ^{K, L, M, O}	
		Organic:	Pi plots on or above "A" line		CH	Fat clay ^{K, L, M}	
			Pi plots below "A" line		MH	Elastic silt ^{K, L, M}	
Highly organic soils:					OH	Organic clay ^{K, L, M, P}	
Primarily organic matter, dark in color, and organic odor					PT	Peat	

^A Based on the material passing the 3-inch (75-mm) sieve.

^B If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.

^C Gravels with 5 to 12% fines require dual symbols: GW-GM well-graded gravel with silt, GW-GC poorly graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay.

^D Sands with 5 to 12% fines require dual symbols: SW-SM well-graded sand with silt, SW-SC well-graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay.

^E $C_u = \frac{D_{60}}{D_{10}} - 1$

^F If soil contains $\geq 15\%$ sand, add "with sand" to group name.

^G If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.

^H If fines are organic, add "with organic fines" to group name.

^I If soil contains $\geq 15\%$ gravel, add "with gravel" to group name.

^J If Atterberg limits plot in shaded area, site is a CL-ML, silty clay.

^K If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.

^L If soil contains $\geq 30\%$ plus No. 200 predominantly sand, add "sandy" to group name.

^M If soil contains $\geq 30\%$ plus No. 200, predominantly gravel, add "gravelly" to group name.

^N $P_i \geq 4$ and plots on or above "A" line.

^O $P_i < 4$ or plots below "A" line.

^P Pi plots on or above "A" line.

^Q Pi plots below "A" line.

- ^A Based on the material passing the 3-inch (75-mm) sieve.
^B If field sample contained cobbles or boulders, or both, add "with cobbles" or "with boulders" to group name.
^C Gravels with 5 to 12% fines require dual symbols: GW-GM well-graded gravel with silt, GW-GC well-graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay.
^D Sands with 5 to 12% fines require dual symbols: SW-SM well-graded sand with silt, SW-SC well-graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay.
^E $C_u = D_{60}/D_{10}$ $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$
^F If soil contains $\geq 15\%$ sand, add "with sand" to group name.
^G If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.
^H If fines are organic, add "with organic fines" to group name.
^I If soil contains $\geq 15\%$ gravel, add "with gravel" to group name.
^J If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.
^K If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.
^L If soil contains $\geq 30\%$ plus No. 200 predominantly sand, add "sandy" to group name.
^M If soil contains $\geq 30\%$ plus No. 200, predominantly gravel, add "gravelly" to group name.
^N $P_i \geq 4$ and plots on or above "A" line.
^O $P_i < 4$ or plots below "A" line.
^P Pi plots on or above "A" line.
^Q Pi plots below "A" line.

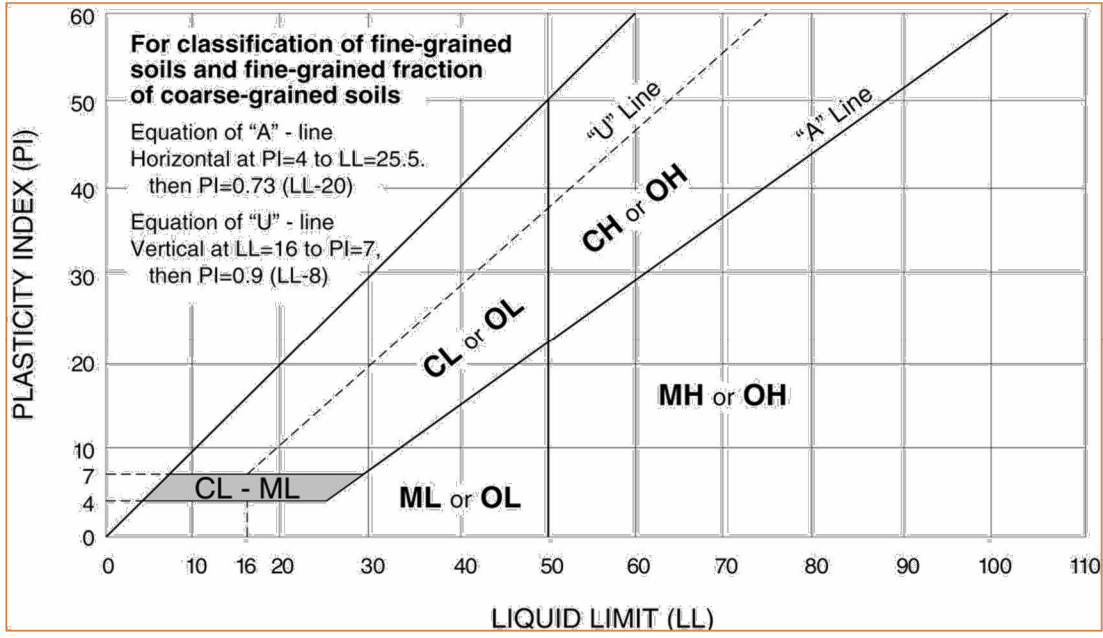
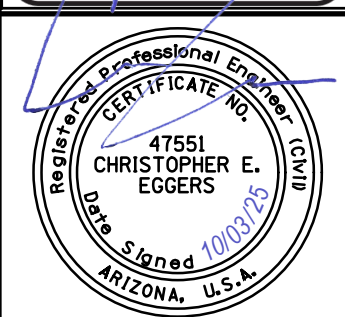


Exhibit: A-4



TOWN OF
QUEEN CREEK



POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS



3133 West Frye Road
Chandler, Arizona 85226
Tel. 480.687.6100
www.stantec.com

BORING LOG SHEET

DESIGNED BY MH
DRAWN BY BE

CIP PROJ NO. A1405

DRAWING NO. BL001

SHEET 131 OF 133


\\US0310-PPFS01\WORKGROUP\1817\Active\181711207\700_CADD\Sheet_Files\11207-BL002_BORING_LOG_2.dwg, 10/3/2025 3:10:02 PM

BORING LOG NO. B-8										Page 1 of 1		
PROJECT: Power Road Widening- Phase 3					CLIENT: Stantec Inc Chandler, AZ							
SITE: Power Rd - Riggs Rd to Chandler Heights Rd Queens Creek, Arizona												
GRAPHIC LOG LOCATION See Exploration Plan Latitude: 33.2332° Longitude: -111.6858° Approximate Surface Elev.: 1359 (FL) +/- ELEVATION (FL) DEPTH 0.6 1.1 2.5 4.0 5.5 ASPHALT CONCRETE, Approximately 6.75 inches AGGREGATE BASE COURSE, Approximately 6.25 inches FILL - SILTY SAND WITH GRAVEL (SM), fine to coarse sand, fine gravel, nonplastic, medium dense SILTY SAND WITH GRAVEL (SM), fine to coarse sand, fine gravel, low plasticity, medium dense loose Boring Terminated at 5.5 Feet	DEPTH (FT)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	LL-PL-PI	ATTERBERG LIMITS	PERCENT FINES			
	1											
	2											
	3											
	4											
	5											
	Stratification lines are approximate. In-situ, the transition may be gradual.											
	Advancement Method: 8" O.D. Hollow Stem Auger					See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).					Notes:	
	Abandonment Method: Boring backfilled with Auger Cuttings Surface capped with asphalt					Elevations were obtained from Google Earth Pro						
	WATER LEVEL OBSERVATIONS Groundwater not encountered					Terracon 4685 S Ash Ave, Ste H-4 Tempe, AZ					Boring Started: 05-08-2019 Boring Completed: 05-08-2019 Drill Rig: D-120 Driller: D&S Drilling Project No.: 65215302 Exhibit: A-5	


BORING LOG NO. B-9										Page 1 of 1		
PROJECT: Power Road Widening- Phase 3					CLIENT: Stantec Inc Chandler, AZ							
SITE: Power Rd - Riggs Rd to Chandler Heights Rd Queens Creek, Arizona												
GRAPHIC LOG LOCATION See Exploration Plan Latitude: 33.2308° Longitude: -111.6858° Approximate Surface Elev.: 1359 (FL) +/- ELEVATION (FL) DEPTH 0.6 1.1 2.0 4.0 5.0 ASPHALT CONCRETE, Approximately 7 inches AGGREGATE BASE COURSE, Approximately 7.5 inches FILL - SILTY SAND WITH GRAVEL (SM), fine to medium sand, fine gravel, low plasticity, brown CLAYEY SAND (SC), trace gravel, low plasticity, brown, loose Boring Terminated at 5 Feet	DEPTH (FT)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	LL-PL-PI	ATTERBERG LIMITS	PERCENT FINES			
	1											
	2											
	3											
	4											
	5											
	Stratification lines are approximate. In-situ, the transition may be gradual.											
	Advancement Method: 8" O.D. Hollow Stem Auger					See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).					Notes:	
	Abandonment Method: Boring backfilled with Auger Cuttings Surface capped with asphalt					Elevations were obtained from Google Earth Pro						
	WATER LEVEL OBSERVATIONS Groundwater not encountered					Terracon 4685 S Ash Ave, Ste H-4 Tempe, AZ					Boring Started: 05-08-2019 Boring Completed: 05-08-2019 Drill Rig: D-120 Driller: D&S Drilling Project No.: 65215302 Exhibit: A-6	

BORING LOG NO. B-301										Page 1 of 1		
PROJECT: Power Road Widening- Phase 3					CLIENT: Stantec Inc Chandler, AZ							
SITE: Power Rd - Riggs Rd to Chandler Heights Rd Queens Creek, Arizona												
GRAPHIC LOG LOCATION See Exploration Plan Latitude: 33.2207° Longitude: -111.6859° Approximate Surface Elev.: 1388 (FL) +/- ELEVATION (FL) DEPTH 0.5 1.0 2.0 4.0 5.0 ASPHALT CONCRETE, Approximately 5.5 inches AGGREGATE BASE COURSE, Approximately 6 inches SILTY CLAYEY SAND (SC-SM), trace gravel, fine to coarse sand, fine gravel, low plasticity, brown, loose Boring Terminated at 5 Feet	DEPTH (FT)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	LL-PL-PI	ATTERBERG LIMITS	PERCENT FINES			
	1											
	2											
	3											
	4											
	5											
	Stratification lines are approximate. In-situ, the transition may be gradual.											
	Advancement Method: 8" O.D. Hollow Stem Auger					See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).					Notes:	
	Abandonment Method: Boring backfilled with Auger Cuttings mixed with cement Surface Capped with Asphalt					Elevations were obtained from Google Earth Pro						
	WATER LEVEL OBSERVATIONS Groundwater not encountered					Terracon 4685 S Ash Ave, Ste H-4 Tempe, AZ					Boring Started: 05-25-2022 Boring Completed: 05-25-2022 Drill Rig: CME-85 Driller: Southlands Engineering Project No.: 65215302 Exhibit: A-7	


Contact Arizona 811 at least two full working days before you begin excavation



Call 811 or click Arizona811.com




TOWN OF
QUEEN CREEK



17551
CHRISTOPHER E.
EGGERS
Signed 10/03/25
ARIZONA, U.S.A.

POWER ROAD:
RIGGS ROAD TO CHANDLER HEIGHTS ROAD
ROADWAY AND DRAINAGE IMPROVEMENTS



3133 West Frye Road
Chandler, Arizona 85226
Tel. 480.687.6100
www.stantec.com

BORING LOG SHEET

DESIGNED BY: MH

DRAWN BY: BE





CIP PROJ NO. A1405

DRAWING NO. BL002

SHEET 132 OF 133

PROJECT NO. A1405, POWER ROAD: RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY & DRAINAGE IMPROVEMENTS SEALED SUBMITTAL 10/03/2025

BORING LOG NO. B-303											Page 1 of 1	
PROJECT: Power Road Widening- Phase 3					CLIENT: Stantec Inc Chandler, AZ							
SITE: Power Rd - Riggs Rd to Chandler Heights Rd Queens Creek, Arizona												
GRAPHIC LOG	LOCATION See Exploration Plan Latitude: 33.2273° Longitude: -111.6858°				DEPTH (Ft.)	WATER LEVEL ELEVATION (Ft.)	SOIL SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
	Approximate Surface Elev: 1365 (Ft.) +/- <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>											
	0.4' ASPHALT CONCRETE, Approximately 4.5 inches				1364.6+/-							
	0.9' AGGREGATE BASE COURSE, Approximately 6.5 inches				1364.1+/-							
	3.0' SILTY CLAYEY SAND (SC-SM), trace gravel, fine to coarse sand, fine gravel, low plasticity, brown, medium dense											
	Boring Terminated at 5 Feet				1360+/-							
Stratification lines are approximate. In-situ, the transition may be gradual.					Hammer Type: Automatic							
Advancement Method: 3" O.D. Hollow Stem Auger Abandonment Method: Boring backfilled with Auger Cuttings mixed with cement Surface Capped with Asphalt					See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any). Elevations were obtained from Google Earth Pro					Notes:		
WATER LEVEL OBSERVATIONS Groundwater not encountered					Boring Started: 05-25-2022 Drill Rig: CME-65 Project No.: 66215302		Boring Completed: 05-25-2022 Driller: Southlands Engineering Exhibit: A-9					

Contact Arizona 811 at least two full working days before you begin excavation 		 <div style="text-align: center;"> <h1>TOWN OF QUEEN CREEK</h1> </div>	
		<div style="text-align: center;"> <p>POWER ROAD:</p> <h2>RIGGS ROAD TO CHANDLER HEIGHTS ROAD ROADWAY AND DRAINAGE IMPROVEMENTS</h2> </div>	
		<div style="text-align: center;">  <h1>Stantec</h1> </div> <div style="text-align: right;"> <p>3133 West Frye Road Chandler, Arizona 85226 Tel. 480.687.6100 www.stantec.com</p> </div>	
<h1>BORING LOG SHEET</h1>			
DESIGNED BY	MH	CIP PROJ NO. A1405	
DRAWN BY	BE		
DRAWING NO.		BL003	
		SHEET 133 OF 133	