

# CITY OF CHANDLER, ARIZONA



**MAYOR**  
KEVIN HARTKE

**VICE MAYOR**  
MATT ORLANDO

**COUNCIL**  
ANGEL ENCINAS  
CHRISTINE ELLIS  
OD HARRIS  
JANE POSTON  
MARK STEWART

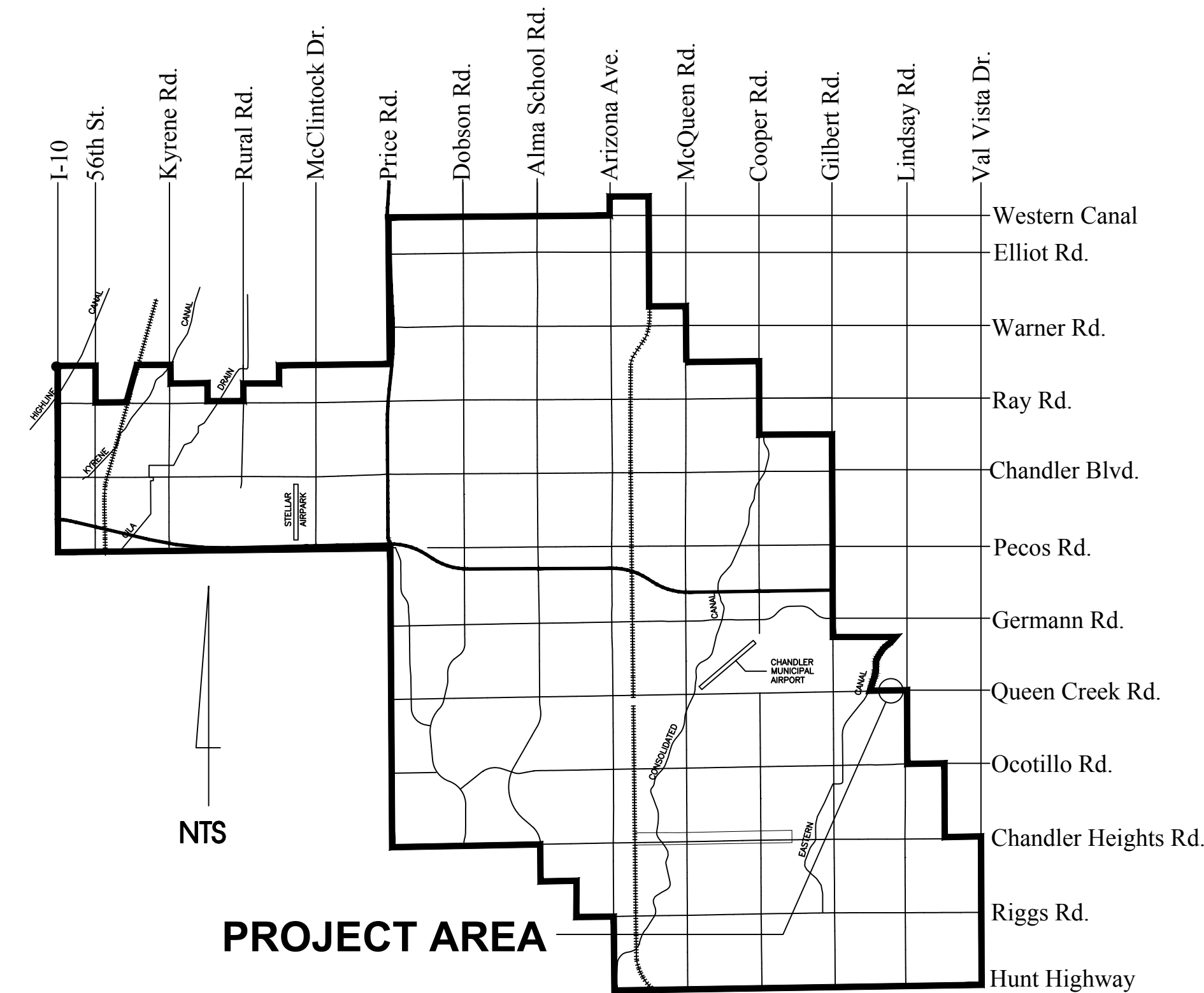
**CITY OF CHANDLER  
PUBLIC WORKS DEPT.**  
215 EAST BUFFALO STREET  
CHANDLER, AZ 85225  
PHONE NO. (480) 782-3331

## Traffic Signal at Layton Lakes Blvd and Queen Creek Rd

**PROJECT NO. DS2202.401**  
**DATE: DECEMBER 2023**

**APPROVED:**

<i>Dana Devidrey</i>	DATE
CITY TRANSPORTATION ENGINEER <small>12/12/2023, 12:26:12 PM CIV23-0048</small>	
<i>Warren White</i>	DATE
PUBLIC WORKS & UTILITIES DIRECTOR <small>12/14/2023, 8:36:04 AM CIV23-0048</small>	
<i>Warren White</i>	DATE
CITY ENGINEER <small>12/14/2023, 8:35:46 AM CIV23-0048</small>	
<i>Warren White</i>	DATE
CIVIL PLAN REVIEW MANAGER <small>12/12/2023, 4:35:11 PM CIV23-0048</small>	
<i>Jason Richardson</i>	DATE



**PROJECT AREA**  
**VICINITY MAP**

**AS-BUILT CERTIFICATION:** I HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION AS SHOWN HEREON WAS MADE UNDER MY SUPERVISION, OR AS NOTED, AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR SIGNATURE      PRINTED NAME      DATE

REGISTRATION NO.      EXPIRATION DATE

I HEREBY CERTIFY THAT THE "AS-BUILT" SHOWN HEREON SATISFIES THE INTENT OF THE DESIGN.

REGISTERED CIVIL ENGINEER SIGNATURE      PRINTED NAME      DATE

REGISTRATION NO.      EXPIRATION DATE

**ROOSEVELT WATER CONSERVATION DISTRICT**

CHECKING IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION, PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES; THE SATISFACTORY PERFORMANCE OF HIS WORK. THE DISTRICT'S REVIEW OF THE PLANS IS A VOLUNTARY AND DISCRETIONARY ACTION WHICH IS NOT MANDATED BY STATE STATUTE. THE DISTRICT'S REVIEW OF THE PLANS IS SOLELY FOR THE DISTRICT'S BENEFIT, CONDUCTED WITH ONLY THE DISTRICT'S INTEREST IN MIND, AND SHOULD NOT BE RELIED UPON BY ANY THIRD PARTY. BY REVIEWING THE PLANS THE DISTRICT DOES NOT ASSUME ANY DUTY TO THIRD PARTIES.

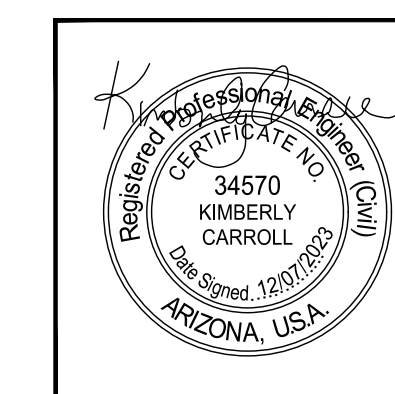
ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_  
RWCD: \_\_\_\_\_ DATE: \_\_\_\_\_

**SHEET INDEX**

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	LEGEND & ABBREVIATIONS
4	PAVING PLAN
5	SIDEWALK RAMP DETAILS
6	TRAFFIC INTERCONNECT PLAN
7	TRAFFIC SIGNAL PLAN
8	TRAFFIC SIGNAL POLE AND CONDUCTOR SCHEDULE
9	PAVEMENT MARKING GENERAL NOTES AND LEGEND
10	SIGNING AND PAVEMENT MARKING PLAN

**DATE: DECEMBER 2023**  
**STATUS: FINAL**

REV. NO.	DATE	DRWN	CHKD	REMARKS	BENCHMARK NUMBER	NGVD 29 ELEVATION	DESCRIPTION	EQUATION	NAVD 88 ELEVATION
					42	-	SECTION 12, T2S, R5E, 3" CITY OF CHANDLER BRASS CAP IN CONCRETE, FLUSH, 200' NORTH OF INTERSECTION OF QUEEN CREEK RD AND COOPER RD; 23' EAST OF EDGE OF PAVEMENT.	1.673	1239.69



**Kimley»Horn**

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C.O.C. LOG NO. CIV23-0048

Plotted By: Montanemery, Sarah Sheet Set: Layton Lakes TS - Layout: TS01 - December 07, 2023, 07:37:21am K:\Phy\_Roadway\191466031 - Chandler\_C and Layton\_TS\Cadd\12-Sheets\Traffic\TS01.dwg

TRAFFIC SIGNAL AT LAYTON LAKES BLVD AND QUEEN CREEK RD PROJECT NO. DS2202.401 FINAL SUBMITTAL (DECEMBER 2023)



Plotted By: Montgomery, Sarah - Sheet Set: CHANDLER HEIGHTS RD IMPROVEMENTS - Layout: TS03 - September 09, 2024 08:50:03am - k:\PHX - Roadway\191461031 - Chandler - CC and Layout - TS\Cadd\12 - Sheets\Traffic\TS03.dwg

**ABBREVIATIONS (IN ADDITION TO THOSE LISTED IN MAG SPECIFICATIONS SECTION 101)**

- AD ALGEBRAIC DIFFERENCE
- AP ANGLE POINT
- ARV AIR RELEASE VALVE
- AZPDES ARIZONA POLLUTION DISCHARGE ELIMINATION SYSTEM
- BB BOTTOM OF BASIN
- BCF BRASS CAP FLUSH
- BCHH BRASS CAP HAND HOLE
- BCR BEGIN CURB RETURN
- B/C BACK OF CURB
- BP BEGINNING POINT
- C CUT
- C&G CURB AND GUTTER
- CATV CABLE TV
- CL OR C CENTERLINE
- COMM COMMUNICATIONS
- CONC CONCRETE
- CST CONSTRUCTION
- CT COURT
- CTLNK CENTURYLINK
- CV CONTROL VALVE
- D DEGREE OF CURVATURE
- DE DRAINAGE EASEMENT
- E EASTING
- ECR END CURB RETURN
- ELEV ELEVATION
- EOP EDGE OF PAVEMENT
- EP ENDING POINT
- ELEC ELECTRIC
- EQ EQUIPMENT
- ESMT EASEMENT
- EXIST EXISTING
- F FILL
- F/C FACE OF CURB
- FL FLOW LINE
- FM FORCE MAIN
- FND FOUND
- FO FIBER OPTIC
- GUT OR G GUTTER ELEVATION
- GB GRADE BREAK
- GV GAS VALVE
- HP HIGH POINT
- IRR IRRIGATION
- LP LOW POINT
- LSCP LANDSCAPE
- LT LEFT
- N NORTHING
- NO NUMBER
- NOI NOTICE OF INTENT
- NOT NOTICE OF TERMINATION
- MCDOT MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION
- MED MEDIAN
- M MONUMENT LINE
- OHE OVERHEAD ELECTRIC
- P PAVEMENT ELEVATION
- PB PULLBOX
- PE G POLYETHYLENE GAS
- POB POINT OF BEGINNING
- POE POINT OF ENDING
- PROP PROPERTY
- PSS PAVEMENT STRUCTURAL SECTION
- PUE PUBLIC UTILITY EASEMENT
- PVI POINT OF VERTICAL INTERSECTION
- QTY QUANTITY
- RMC RIGID METAL CONDUIT
- R RADIUS
- RT RIGHT
- R/W RIGHT OF WAY
- RW RECLAIMED WATER
- RWCD ROOSEVELT WATER CONSERVATION DISTRICT
- S SEWER
- SDL SIGHT DISTANCE LINE
- SEC SECTION
- SMFO SINGLE MODE FIBER OPTIC
- SRP SALT RIVER PROJECT
- STR STRUCTURAL
- SWCT SAWCUT
- SWLK SIDEWALK
- TB TOP OF BASIN
- TOC OR TC TOP OF CURB/TOP OF CURB ELEVATION
- TCE TEMPORARY CONSTRUCTION EASEMENT
- TOG TOWN OF GILBERT
- TP TELEPHONE PEDESTAL
- TYP TYPICAL
- T/S TRAFFIC SIGNAL
- UGE UNDERGROUND ELECTRIC
- W WATER
- WE WATER EASEMENT

**SYMBOL LEGEND**

NEW	EXIST	SYMBOL DESCRIPTION	NEW	EXIST	SYMBOL DESCRIPTION
		VERTICAL CURB AND GUTTER			ALUMINUM CAP FLUSH
		SINGLE VERTICAL CURB			ALUMINUM CAP IN HAND HOLE
		SIDEWALK			BRASS CAP FLUSH
		CATCH BASIN			BRASS CAP IN HAND HOLE
		HEAD WALL			PK NAIL
		SCUPPER			BOLLARD
		RIPRAP			CABLE TELEVISION MANHOLE
		RIGHT-OF-WAY LINE			CABLE TELEVISION VAULT
		EASEMENT LINE			ELECTRICAL CABINET
		CUT SLOPE			ELECTRICAL MANHOLE
		FILL SLOPE			ELECTRICAL METER
		BASIN GRADING TOP OF BERM			ELECTRICAL PULL BOX
		BASIN GRADING TOP OF BASIN			ELECTRICAL TRANSFORMER
		BASIN GRADING BOTTOM OF BASIN			ELECTRICAL VAULT
		SAWCUT			FIBER MANHOLE
		FENCE			FIBER VAULT
		WALL			FIRE HYDRANT
		STORM DRAIN PIPE			GAS MARKER
		COX CABLE TELEVISION LINE (FIBER OPTIC)			GAS METER
		UNDERGROUND ELECTRIC			GAS VALVE
		NATURAL GAS LINE			IRRIGATION CONTROL VALVE
		OVERHEAD UTILITIES			IRRIGATION MANHOLE
		SANITARY SEWER LINE			MAILBOX
		RWCD IRRIGATION LINE			PALM TREE
		SRP IRRIGATION LINE			POWER DOWN GUY
		CENTURYLINK LINE FIBER OPTIC			POWER POLE
		FIBER OPTIC			SANITARY SEWER MANHOLE
		RECLAIMED WATER LINE			SIGN
		TRAFFIC SIGNAL LINE			STORM DRAIN MANHOLE
		WATER LINE			STREETLIGHT WITH MAST ARM

UTILITY COMPANY	UTILITY CONTACTS	DATE SUBMITTED
COX	JEFF KRAUSE	6/19/2023
LUMEN	KEVIN WAGNER	6/19/2023
MCI - VERIZON	JEREMY SLAUGHTER	6/19/2023
ROOSEVELT WATER CONSERVATION DISTRICT	TABATHA LANGLAND	9/26/2023
SOUTHWEST GAS	GENE FLOREZ	6/19/2023
SRP LAND AGENT	JESSICA MILES	6/19/2023
SRP TRANSMISSION	PAUL GRANT	9/6/2023
SRP DISTRIBUTION	MICHAEL LARANCE	9/6/2023

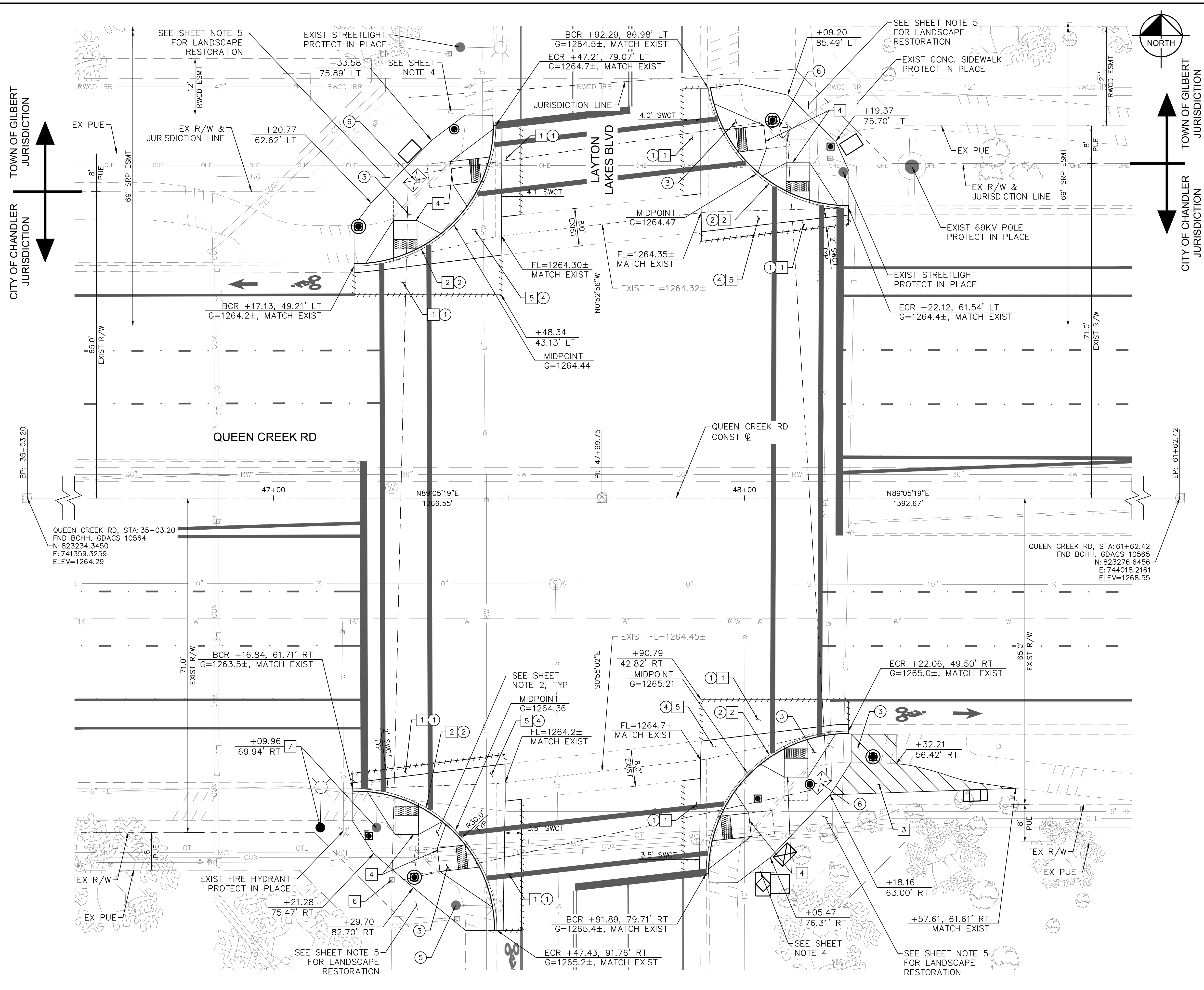
NEW	EXIST	SYMBOL DESCRIPTION
		ALUMINUM CAP FLUSH
		ALUMINUM CAP IN HAND HOLE
		BRASS CAP FLUSH
		BRASS CAP IN HAND HOLE
		PK NAIL
		BOLLARD
		CABLE TELEVISION MANHOLE
		CABLE TELEVISION VAULT
		ELECTRICAL CABINET
		ELECTRICAL MANHOLE
		ELECTRICAL METER
		ELECTRICAL PULL BOX
		ELECTRICAL TRANSFORMER
		ELECTRICAL VAULT
		FIBER MANHOLE
		FIBER VAULT
		FIRE HYDRANT
		GAS MARKER
		GAS METER
		GAS VALVE
		IRRIGATION CONTROL VALVE
		IRRIGATION MANHOLE
		MAILBOX
		PALM TREE
		POWER DOWN GUY
		POWER POLE
		SANITARY SEWER MANHOLE
		SIGN
		STORM DRAIN MANHOLE
		STREETLIGHT WITH MAST ARM
		TELEPHONE MANHOLE
		TELEPHONE PEDESTAL
		TELEPHONE PULL BOX
		TELEPHONE RISER
		TELEPHONE VAULT
		TRAFFIC SIGNAL
		TRAFFIC SIGNAL PULL BOX
		TRAFFIC SIGNAL WITH MAST
		TRAFFIC SIGNAL VAULT
		TREE
		WATER METER
		WATER VALVE
		WATER BACKFLOW PREVENTER

 © 2023 KIMLEY-HORN AND ASSOCIATES, INC. 7740 N. 16TH STREET, SUITE 300, PHOENIX, AZ 85020 PHONE: 602-944-5500 FAX: 602-944-7423 WWW.KIMLEY-HORN.COM	 Sarah Montgomery Professional Engineer No. 78386 State of Arizona
SCALE (H): N/A SCALE (V): N/A DESIGNED BY: SJM DRAWN BY: SJM CHECKED BY: KAC DATE: 09/2024	CITY OF CHANDLER QUEEN CREEK RD & LAYTON LAKES BLVD TRAFFIC SIGNAL IMPROVEMENTS LEGEND & ABBREVIATIONS
CITY PROJECT NO. DS2202.401	C.O.C. LOG NO. CIV23-0048
SHEET DWG LN01	3 OF 10
REVISIONS No.	DATE BY



C.O.C. LOG NO. CIV 23-0048 TRAFFIC SIGNAL AT LAYTON LAKES BLVD & QUEEN CREEK RD

Plotted: E:\Montgomery, Sarah\_Sheet Set: CHANDLER HEIGHTS RD IMPROVEMENTS - Layout: TSO4 - September, 09, 2024 - 08:50:17am - K:\P\H\_Readwork\191466031 - Chandler, QC and Layton, TS\Drawings\12-Sheets\Traffic\TS04.dwg



**CONSTRUCTION NOTES**

NO.	DESCRIPTION	QTY	UNIT
1	PAVEMENT REPLACEMENT, PER MAG DTL 200, "T-TOP" TRENCH REPAIR, & BY MAG SPEC SECTION 321 AND 710	99	SY
2	VERTICAL CURB & GUTTER, PER MAG DTL 220-1, TYPE 'A', H=6"	182	LF
3	NEW CONC. SIDEWALK, PER MAG DTL 230	210	SF
4	NEW DUAL DIRECTIONAL CURB RAMP, PER COC DTL C-258-1 & C-249	4	EA
5	NEW CONC. VALLEY GUTTER, PER MAG DTL 240	1,116	SF
6	ADJUST PULL BOX TO GRADE	1	EA
7	RELOCATE EXISTING STREETLIGHT & PULL BOX	1	EA

**REMOVAL NOTES**

NO.	DESCRIPTION	QTY	UNIT
1	SAWCUT AND REMOVE EXIST ASPHALT	99	SY
2	REMOVE EXIST CURB & GUTTER	182	LF
3	REMOVE EXIST CONC. SIDEWALK	1,303	SF
4	REMOVE EXIST CONC. VALLEY GUTTER	1,124	SF
5	STREETLIGHT TO BE REMOVED AND SALVAGED	1	EA
6	REMOVE EXISTING PULL BOX	3	EA

**SHEET NOTES**

- ALL DIMENSIONS AND CURB OFFSETS ARE MEASURED TO THE FACE OF CURB, UNLESS OTHERWISE NOTED.
- SEE SHEET DWG DT01 FOR SIDEWALK RAMP DETAILS.
- SEE SHEET DWG TS01 FOR TRAFFIC SIGNAL IMPROVEMENTS.
- SEE SHEET DWG SM00 FOR SIGNING AND MARKING IMPROVEMENTS.
- REFER TO THE TECHNICAL SPECIFICATIONS FOR THE RESTORATION OF THE IMPACTED LANDSCAPING.

5'X5' LANDING PAD

GRAPHIC SCALE IN FEET  
0 5 10 20

Call at least two full working days before you begin excavation.  

 ARIZONA 811  
 Dial 8-1-1 or 1-800-STAKE-IT (782-8349)  
 In Maricopa County: (602) 253-1100

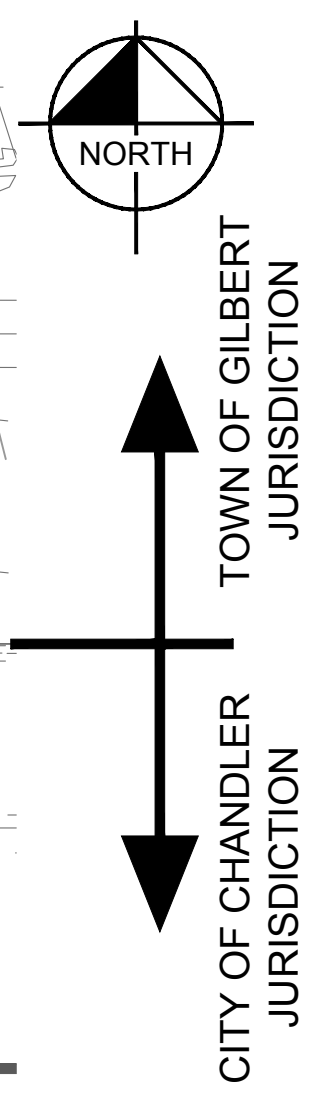
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 WWW.KIMLEY-HORN.COM

SCALE (H): 1"=20'	SCALE (V): N/A
DESIGNED BY: JDF	DRAWN BY: JDF
CHECKED BY: KAC	DATE: 09/2024

**CITY OF CHANDLER**  
**QUEEN CREEK RD & LAYTON LAKES BLVD**  
**TRAFFIC SIGNAL IMPROVEMENTS**  
**PAVING PLAN**

CITY PROJECT NO. DS2202.401	C.O.C. LOG NO. CIV23-0048
SHEET DWG PV01	4 OF 10

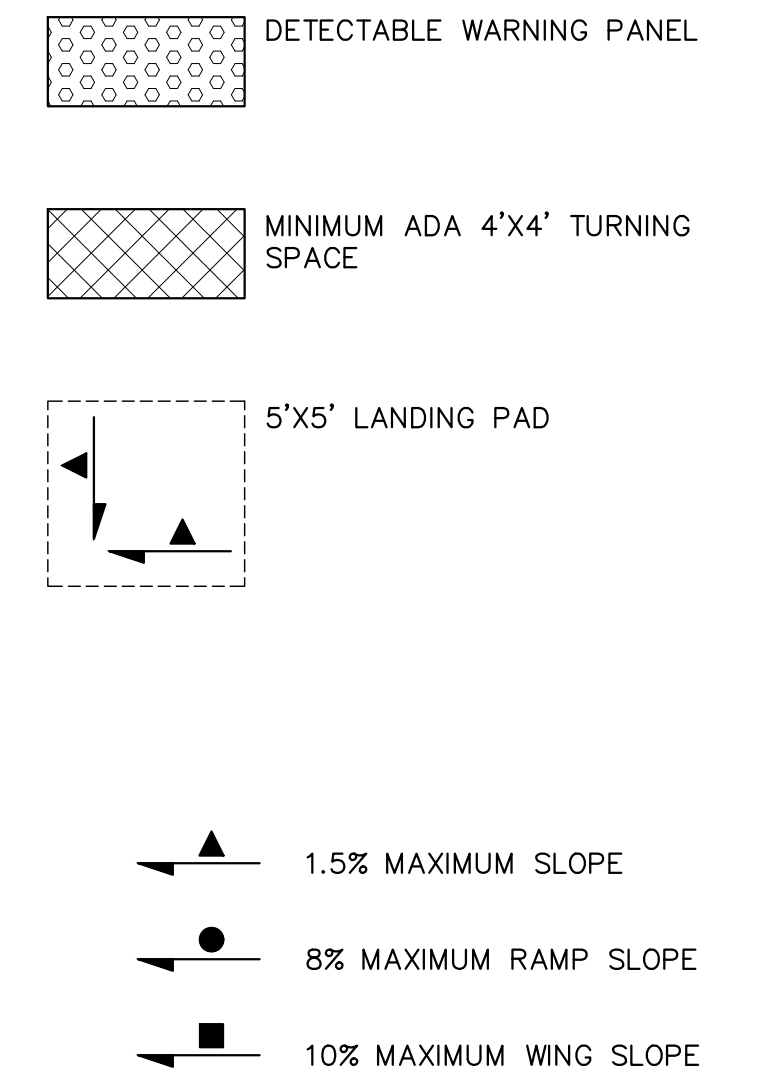
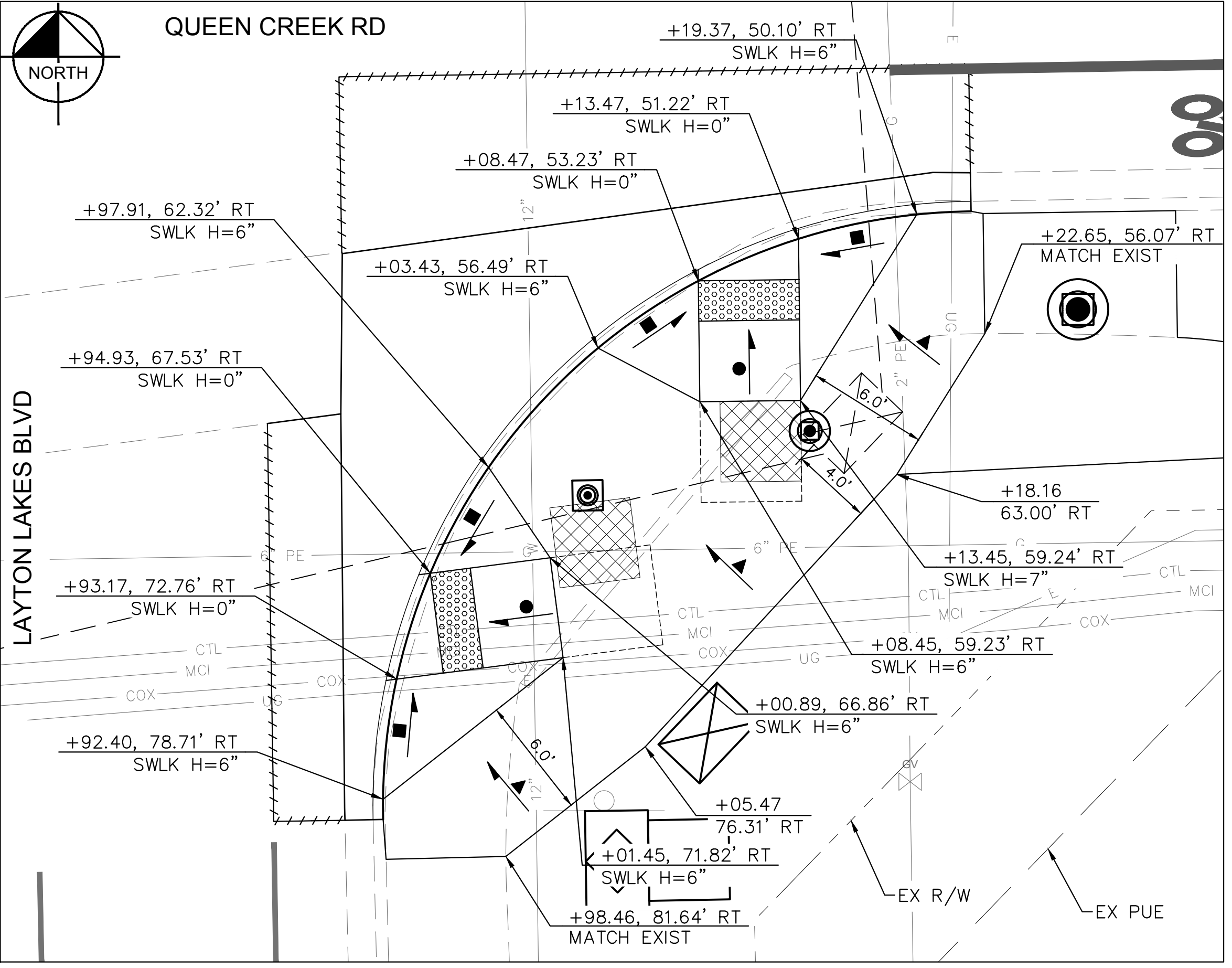
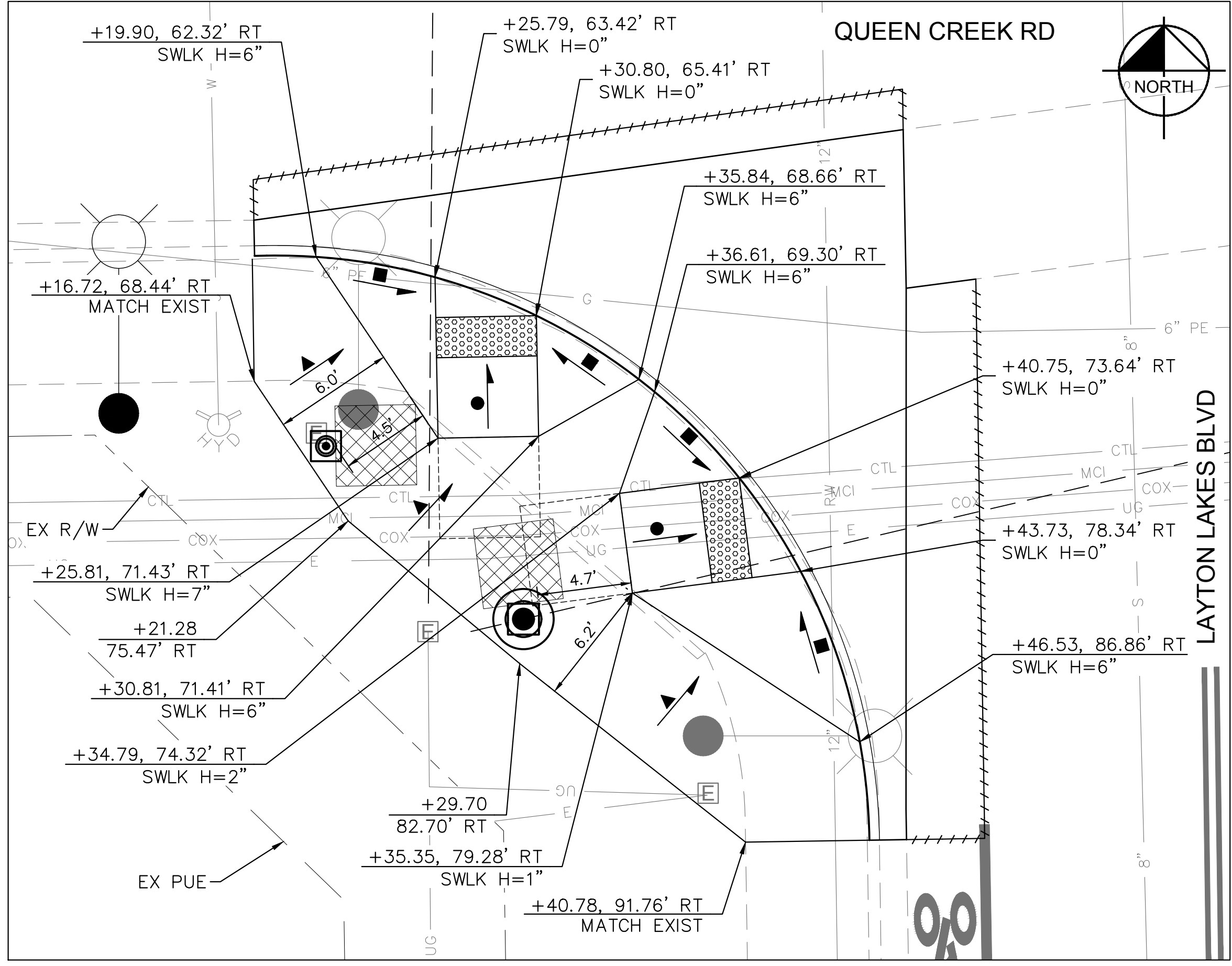
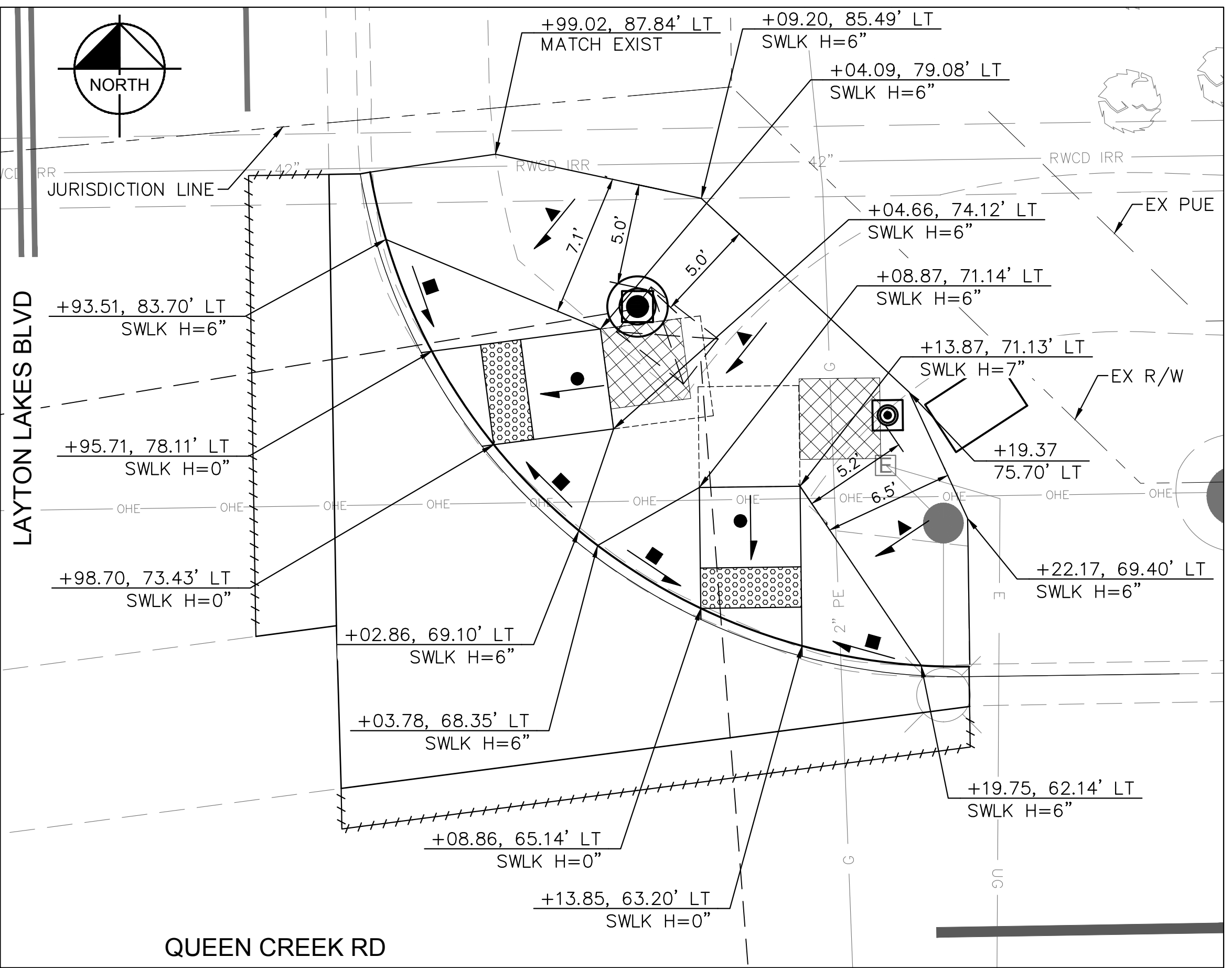
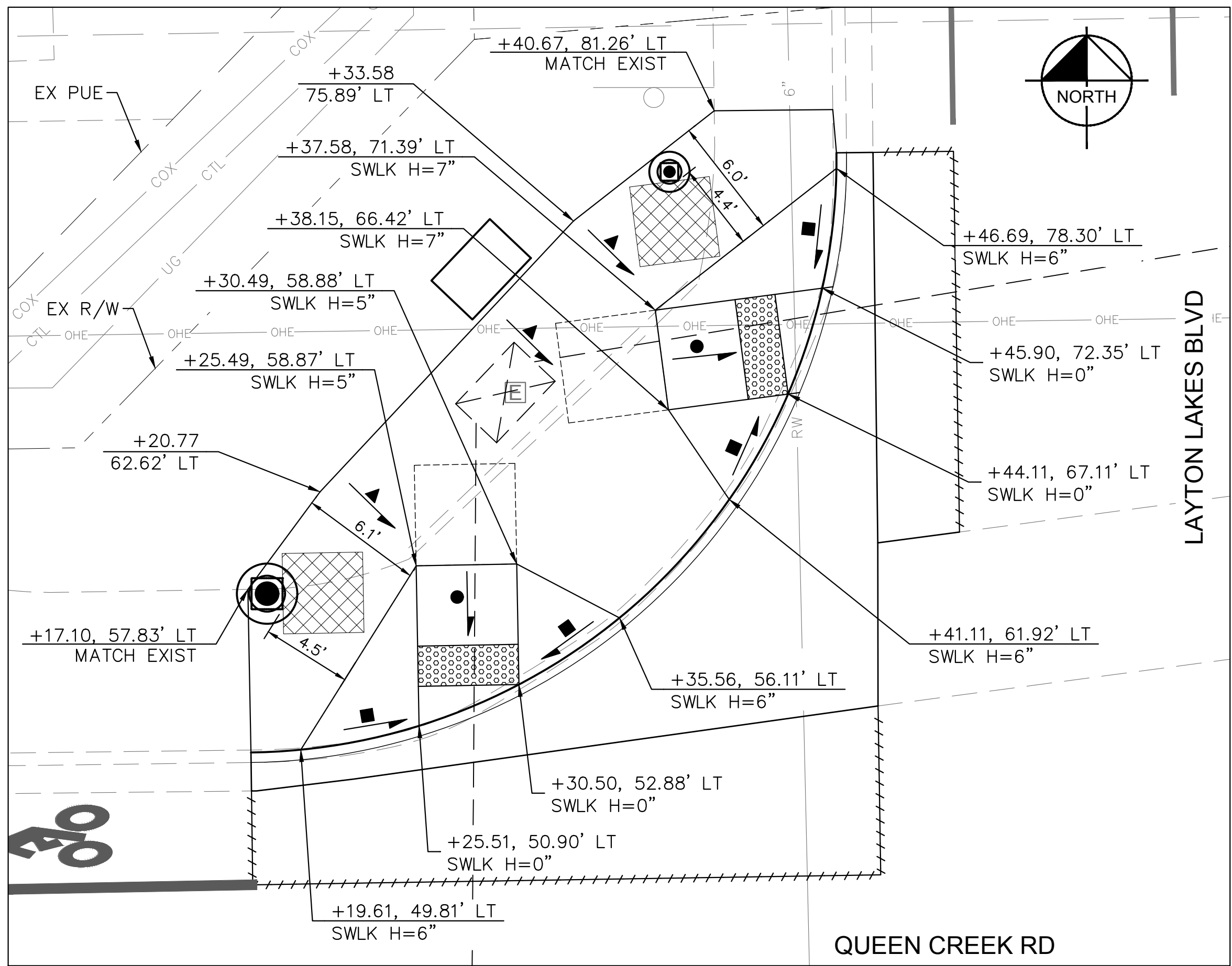


CITY OF CHANDLER JURISDICTION

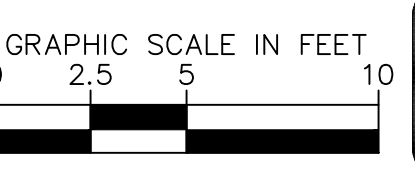
TOWN OF GILBERT JURISDICTION

C.O.C. LOG NO. CIV 23-0048 TRAFFIC SIGNAL AT LAYTON LAKES BLVD & QUEEN CREEK RD

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- SHEET NOTES**
- ALL DIMENSIONS AND CURB OFFSETS ARE MEASURED TO THE BACK OF CURB, UNLESS OTHERWISE NOTED.
  - SIDEWALK HEIGHT IS IN REFERENCE TO THE GUTTER ELEVATION AND DOES NOT INCLUDE THE SIDEWALK SLOPE.
  - SEE SHEET DWG PV01 FOR PAVING PLAN.
  - SEE SHEET DWG TS01 FOR TRAFFIC SIGNAL PLAN.



NO.	REVISIONS	DATE	BY

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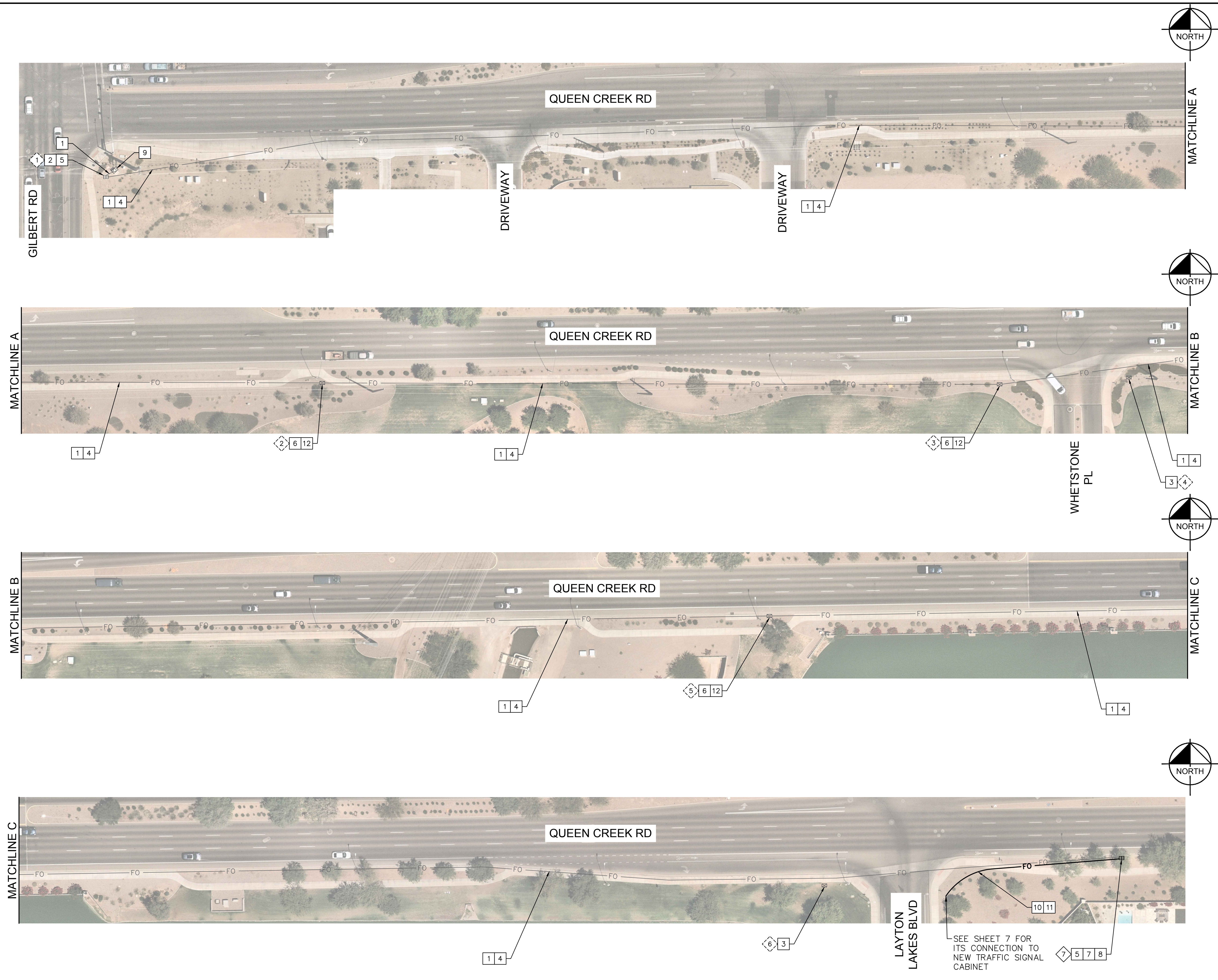
SCALE (H):	1"=5'
SCALE (V):	N/A
DESIGNED BY:	JDF
DRAWN BY:	JDF
CHECKED BY:	KAC
DATE:	09/2024

**CITY OF CHANDLER**  
**QUEEN CREEK RD & LAYTON LAKES BLVD**  
**TRAFFIC SIGNAL IMPROVEMENTS**  
**SIDEWALK RAMP DETAILS**

CITY PROJECT NO.	DS2202.401
C.O.C. LOG NO.	CIV23-0048
SHEET DWG	DT01
5 OF 10	

C.O.C. LOG NO. CIV 23-0048 TRAFFIC SIGNAL AT LAYTON LAKES BLVD & QUEEN CREEK RD

Plotted: E:\Montgomery, Sarah\_Sheet Set\CHANDLER HEIGHTS RD IMPROVEMENTS - Layout\ICD - September 09, 2024 - 08:50:34am - K:\PHX\_Roadwork\191466031 - Chandler, QC and Layout\_TSS\Cadd\12-Sheets\Traffic\ICD1.dwg



- CONSTRUCTION NOTES**
- DESCRIPTION
- 1 Existing C.O.C Conduit. Protect in Place.
  - 2 Existing C.O.C No. 9 Pull Box. Protect in Place.
  - 3 Existing C.O.C ITS Pull Box. Protect in Place.
  - 4 Install New 144 SMFO in Existing C.O.C Black Conduit. Protect in Place All Other Conduits.
  - 5 Coil 100 Feet Of 144 SMFO in No. 9 Pull Box.
  - 6 Coil 50 Feet Of 144 SMFO in No. 7 Pull Box.
  - 7 Remove Existing ITS Pull Box.
  - 8 Install New C.O.C Type 9 Pull Box and New Tyco 4500 Splice Closure
  - 9 Existing C.O.C Signal Cabinet. Protect in Place.
  - 10 Install New 2" Conduit.
  - 11 Install New 12-Port Gator Patch in New 2" Conduit.
  - 12 Existing C.O.C. No. 7 Pull Box Installed with TUF2302 Project. Protect in Place.

**INTERCONNECT PULL BOX SCHEDULE**

No.	Type	Location**
1	Exist. No. 9	Approx. As Shown
2	Exist. No. 7	Approx. As Shown
3	Exist. No. 7	Approx. As Shown
4	Exist. No. 7	Approx. As Shown
5	Exist. No. 7	Approx. As Shown
6	Exist. No. 7	Approx. As Shown
7	New No. 9	Sta 49+57, 52'R

\*\*Stations And Offsets Shown On Traffic Signal Sheets And Are Approximate. Actual Locations Shall Be Field Verified By Inspector Prior To Pull Box Installation.

PLEASE SEND AN EMAIL TO [OSP@CHANDLERAZ.GOV](mailto:OSP@CHANDLERAZ.GOV) FOR ANY QUESTIONS RELATED TO THIS WORK.

GRAPHIC SCALE IN FEET  
0 20 40 80

Call at least two full working days before you begin excavation.  
**ARIZONA 811**  
Arizona Blue Stakes, Inc.  
Dial 8-1-1 or 1-800-STAKE-IT (782-9349) In Maricopa County: (602) 253-1100

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WWW.KIMLEY-HORN.COM

*Sarah Montgomery*  
Professional Engineer  
78386 Sarah Montgomery  
Montgomery  
ARIZONA, U.S.A.

SCALE (H): 1"=40'  
SCALE (V): N/A  
DESIGNED BY: SJM  
DRAWN BY: CAT  
CHECKED BY: KAC  
DATE: 09/2024

**CITY OF CHANDLER**  
QUEEN CREEK RD & LAYTON LAKES BLVD  
TRAFFIC SIGNAL IMPROVEMENTS  
TRAFFIC INTERCONNECT PLAN

CITY PROJECT NO. DS2202.401  
C.O.C. LOG NO. CIV23-0048  
SHEET DWG IC01  
6 OF 10

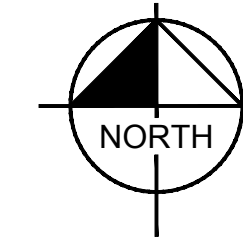
C.O.C. LOG NO. CIV 23-0048 TRAFFIC SIGNAL AT LAYTON LAKES BLVD & QUEEN CREEK RD

EXISTING	NEW	LEGEND
(X)	(X)	CONDUIT RUN DESIGNATION - SEE CONDUCTOR SCHEDULE (SHEET 8)
	(X)	CABINET/POLE FOUNDATION DESIGNATION - SEE POLE SCHEDULE (SHEET 8)
	□	NO. 7 PULL BOX
⊗	⊗	NO. 7 PULL BOX WITH EXTENSION
	📷	CCTV CAMERA
	📹	VIDEO DETECTION CAMERA
	🚒	EMERGENCY VEHICLE DETECTION
	—	INTERNALLY ILLUMINATED STREET NAME SIGN
	⚡	WIRELESS RADIO

TRAFFIC SIGNAL PULL BOX SCHEDULE

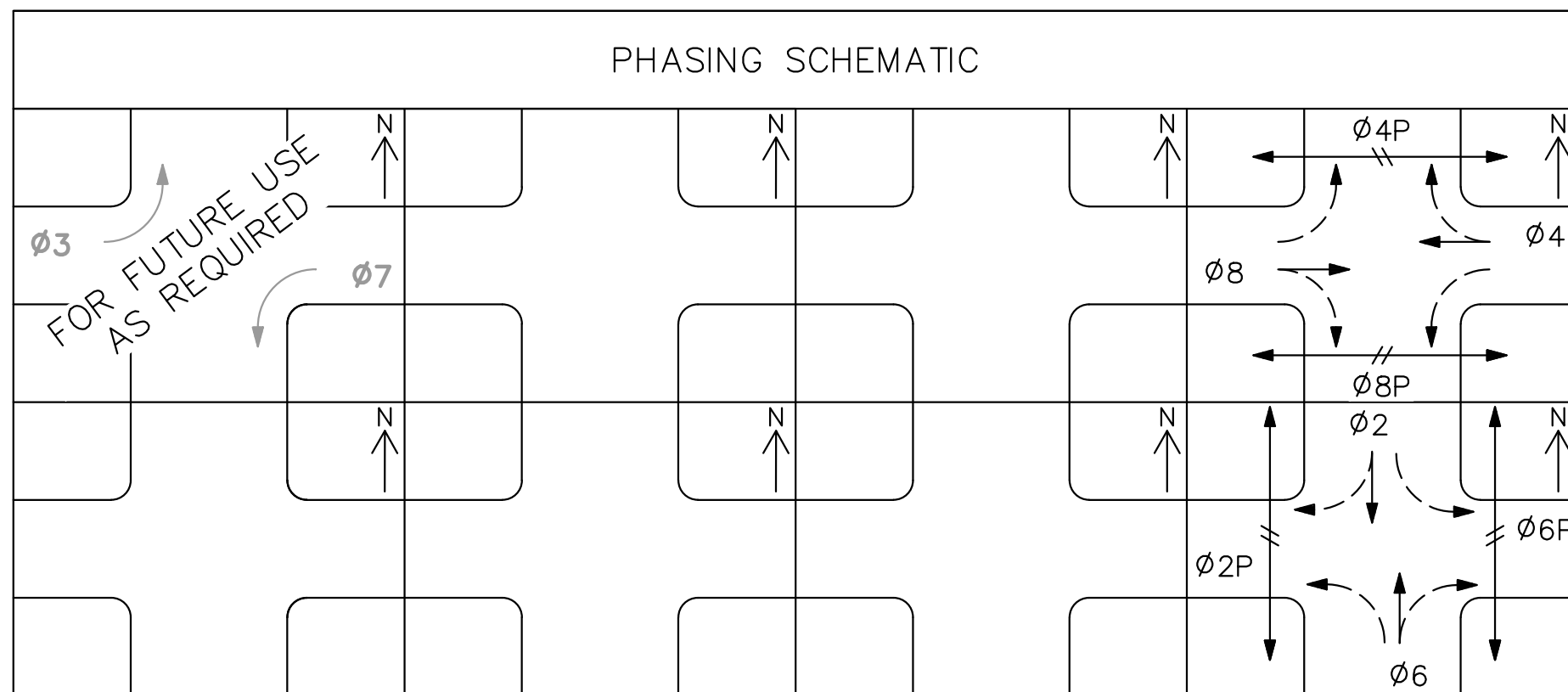
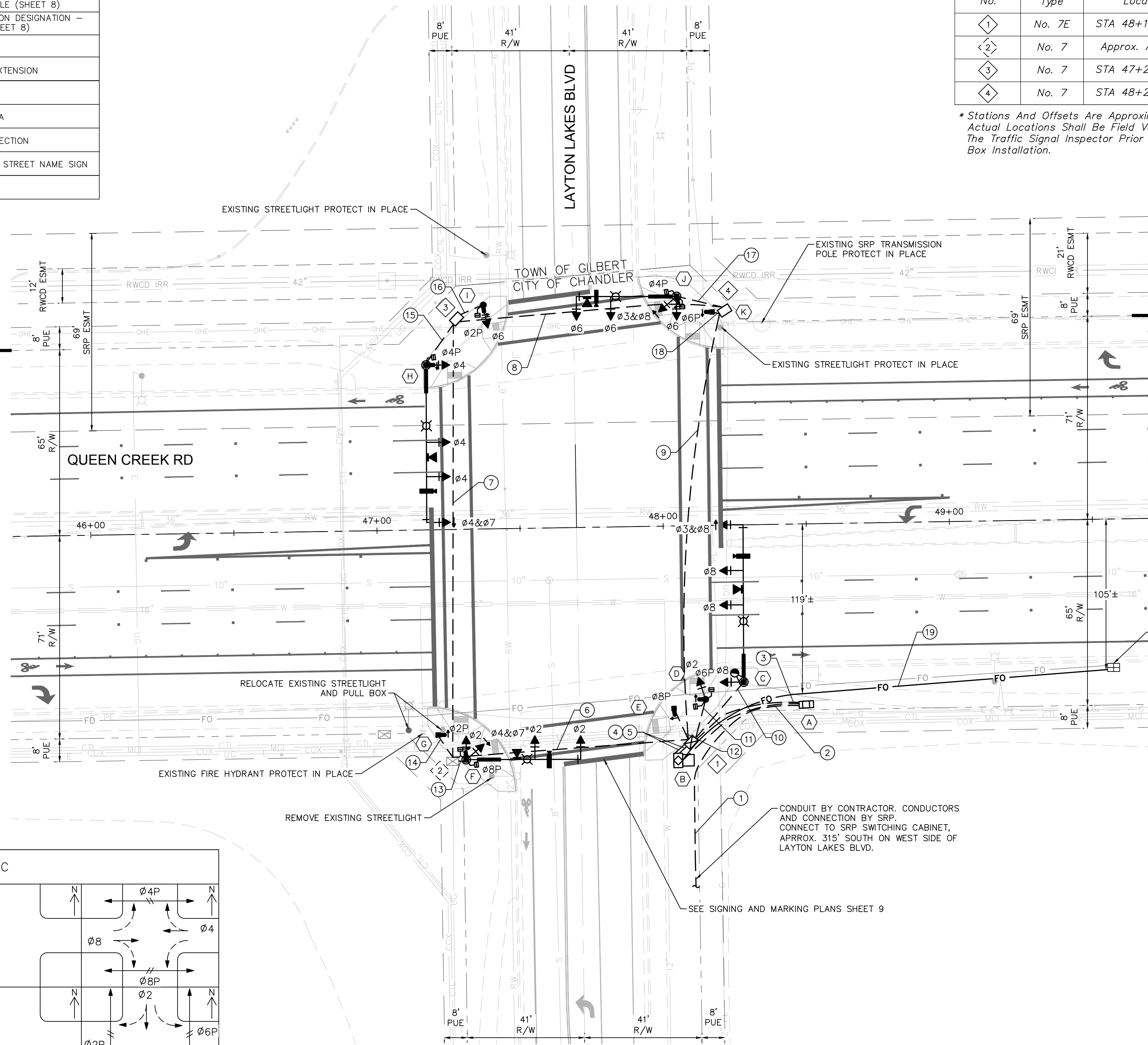
No.	Type	Location*
1	No. 7E	STA 48+14, 70' RT
2	No. 7	Approx. As Shown
3	No. 7	STA 47+29, 74' LT
4	No. 7	STA 48+23, 75' LT

\* Stations And Offsets Are Approximate. Actual Locations Shall Be Field Verified By The Traffic Signal Inspector Prior To Pull Box Installation.



TOWN OF GILBERT JURISDICTION  
CITY OF CHANDLER JURISDICTION

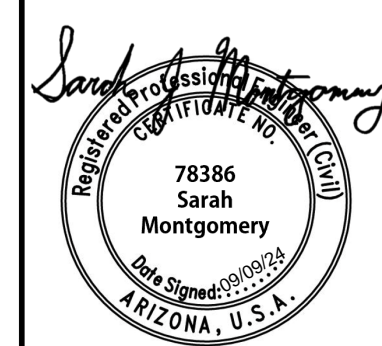
TOWN OF GILBERT JURISDICTION  
CITY OF CHANDLER JURISDICTION



EB/WB: PROTECTED/PERMITTED LEFT-TURN PHASING (FLASHING YELLOW ARROW)  
NB/SB: PERMITTED LEFT-TURN PHASING



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WWW.KIMLEY-HORN.COM



SCALE (H):	1"=20'
SCALE (V):	N/A
DESIGNED BY:	SJM
DRAWN BY:	LIM
CHECKED BY:	KAC
DATE:	09/2024

CITY OF CHANDLER  
QUEEN CREEK RD & LAYTON LAKES BLVD  
TRAFFIC SIGNAL IMPROVEMENTS  
TRAFFIC SIGNAL LAYOUT

CITY PROJECT NO.	DS2202.401
C.O.C. LOG NO.	CIV23-0048
SHEET DWG	TS01
7 OF 10	

C.O.C. LOG NO. CIV 23-0048 TRAFFIC SIGNAL AT LAYTON LAKES BLVD & QUEEN CREEK RD

Plotted: E:\Montgomery, Sarah - Sheet Set: CHANDLER HEIGHTS RD IMPROVEMENTS - Layout: TS00 - September 09, 2024 08:50:39am K:\PHK-Roadway\191466031 - Chandler DC and Layout TS\Roadway\191466031 - Chandler DC and Layout TS\Roadway\191466031.dwg

CONDUCTOR SCHEDULE

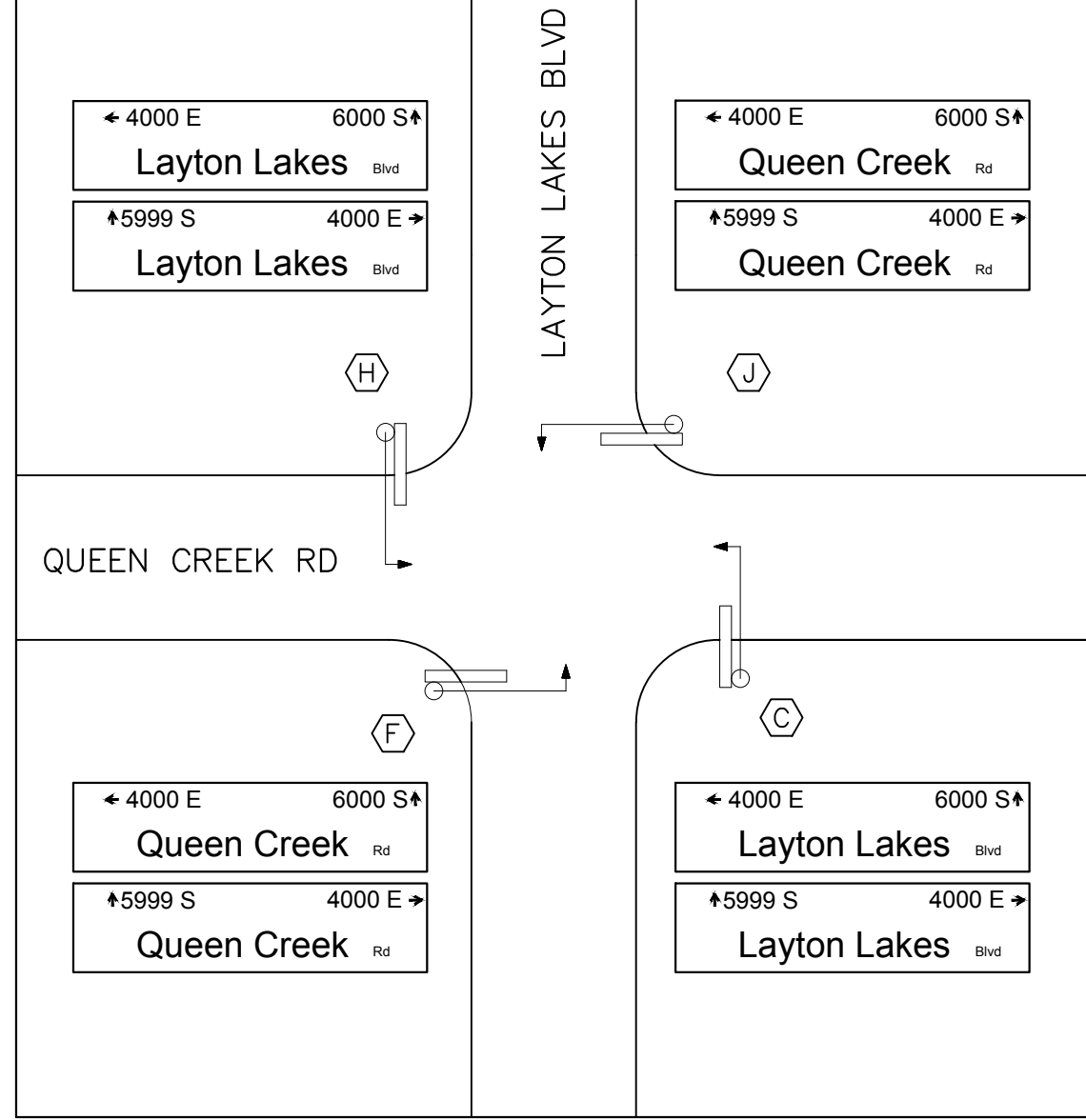
AWG	CONDUIT RUN NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	CONDUIT SIZE IN INCHES	2.5	2	2	4	4	4	4	4	4	3	3	3	3	3	3	3	3	3	2
#14 25 CONDUCTOR 20-1 IMSA SIGNAL CABLES (NOTE 2)	POLE C					1														
	POLE D					1														
	POLE E					1														
	POLE F					1	1													
	POLE G					1	1													
	POLE H					1	1	1												
	POLE I					1	1	1												
	POLE J					1	1	1												
	POLE K					1	1	1												
VIDEO DET. CABLE	POLE C (ø3 & ø8)					1														
	POLE F (ø2)					1	1													
	POLE H (ø4 & ø7)					1	1	1												
	POLE J (ø6)					1	1	1												
#6 (NOTE 1) BLACK-HOT WHITE-NEUTRAL GREEN-EQUIPMENT GROUND	SERVICE 120/240V					3														
STREET LIGHTING, 120V	SIGNAL CABINET 120V					2														
STREET NAME SIGN LIGHTING, 120V	#10 (RED) SOLID COMMON (WHITE)					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	#10 (BROWN) SOLID COMMON (WHITE)					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
#8	CONDUIT BOND (GREEN)					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CCTV	CCTV CABLE					1														
FIRE DET. CABLE	FIRE PREEMPT ø2					1	1													
	FIRE PREEMPT ø4					1	1	1												
	FIRE PREEMPT ø6					1														
	FIRE PREEMPT ø8					1														
INTERCONNECT CABLE	12-PORT GATOR PATCH					1														

CONDUCTOR SCHEDULE NOTES:  
 1. MINIMUM NUMBER OF CONDUCTORS REQUIRED (NON-IMSA TYPE)  
 2. MINIMUM NUMBER OF CABLES REQUIRED (INCLUDING IMSA TYPES)

GENERAL NOTES:

- THE EMERGENCY PREEMPTION SHALL BE GTT/OPTICOM MODEL 721 DETECTOR (ONE PER APPROACH), MODEL 762 PHASE SELECTOR (TWO PER CABINET), NO AUXILIARY PANEL, AND MODEL 138 DETECTOR CABLE (WIRE USED FROM SIGNAL CABINET TO DETECTOR) OR APPROVED EQUIVALENT.
- ALL POLE AND CABINET FOUNDATION LOCATIONS SHALL BE APPROVED BY THE CITY CIP INSPECTOR BEFORE PLACEMENT OF CONCRETE.
- THE VIDEO DETECTION CAMERA SYSTEM FOR THE TRAFFIC SIGNAL SHALL BE "FLIR TRAFISENSE DUAL 2", INCLUDING CAMERA, CABLING AND OTHER EQUIPMENT NECESSARY FOR A COMPLETE OPERATING SYSTEM. CONTRACTOR SHALL COORDINATE WITH THE CITY OF CHANDLER AT (480) 782-3471 BEFORE ORDERING ANY EQUIPMENT.
- ALL SIGNAL HEADS AND PEDESTRIAN HEAD ALIGNMENTS AND MOUNTS SHALL BE APPROVED BY THE CITY PRIOR TO THEIR INSTALLATION.
- CONTRACTOR SHALL COORDINATE WITH OSP FIBER SPECIALIST OF THE CITY OF CHANDLER AT OSPFIBER@CHANDLERAZ.GOV FOR FIBER SPLICE DETAILS AT LEAST 2 WEEKS PRIOR TO SPLICING ACTIVITY.
- IF QUESTIONS ARISE BEFORE OR DURING CONSTRUCTION RELATED TO OVERHEAD CLEARANCE REQUIREMENTS PLEASE CONTACT SRP SAFETY SERVICES FOR ASSISTANCE, AT 602-236-8117. SRP SAFETY SERVICES SHALL BE CONTACTED FOR A PRE-CON MEETING TO REVIEW THE WORK PLAN AND CLEARANCE REQUIREMENTS FOR ANY HEAVY EQUIPMENT OR ANY CONSTRUCTION ACTIVITIES IN THE PROXIMITY OF OH ELECTRICAL LINES.
- THE CITY OF CHANDLER REQUIRES AT LEAST TWO INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION (IISMA) CERTIFIED TRAFFIC SIGNAL TECHNICIANS ON SITE DURING ALL PHASES OF ANY TRAFFIC SIGNAL WORK. ONE TECHNICIAN MUST AT LEAST BE A LEVEL II. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE VERIFICATION OF CERTIFICATION. IF A JOB SITE IS INSPECTED AND A CERTIFIED TECHNICIAN IS NOT ON SITE, A STOP WORK ORDER WILL BE ISSUED. TEMPORARY AND CONTRACT EMPLOYEES DO NOT SATISFY THIS REQUIREMENT.
- ALL TRAFFIC SIGNAL EQUIPMENT AND CONSTRUCTION SHALL CONFORM TO THE CITY OF CHANDLER STANDARD SPECIFICATIONS, DRAWINGS, AND PROCEDURES (CURRENT VERSION) SUPPLEMENTED BY ADOT SPECIFICATIONS AND STANDARD DRAWINGS AND MAG SPECIFICATIONS AND STANDARD DRAWINGS.
- THE MATERIAL LIST SHALL BE SUPPLIED AT LEAST TWO WEEKS PRIOR TO ORDERING. THE MATERIAL LIST SHALL INCLUDE SHOP DRAWINGS FOR SIGNAL POLES, MAST ARMS, FOUNDATIONS, CONDUITS, VAULTS, PULL BOXES, AND DATA SHEETS FOR ALL SIGNAL EQUIPMENT, INCLUDING, BUT NOT LIMITED TO, SIGNAL CABINET EQUIPMENT, TRAFFIC CONTROLLER, DETECTION SYSTEM, CCTV CAMERA AND SYSTEM, GATOR PATCH CABLES, PRE-EMPTION EQUIPMENT, ILLUMINATED STREET NAME SIGNS, VEHICULAR AND PEDESTRIAN INDICATIONS, AND MOUNTINGS.
- LOCATION OF UTILITIES SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY. THE ENGINEER DOES NOT GUARANTEE THESE LOCATIONS NOR THE FACT THAT SOME MAY BE LEFT OUT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ARIZONA BLUE STAKE AND ALL INVOLVED AGENCIES PRIOR TO START OF CONSTRUCTION.
- TOP OF SIGNAL POLE FOUNDATIONS AND PULL BOXES SHALL BE AT THE SAME ELEVATION AS THE BACK OF SIDEWALK.
- NEW CONDUIT UNDER ROADWAY SHALL BE PLACED BY JACKING OR BORING METHOD. CONTRACTOR SHALL NOT TRENCH EXISTING PAVEMENT WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- ALL NEW VEHICLE AND PEDESTRIAN INDICATIONS SHALL HAVE LED INDICATIONS. ALL NEW PEDESTRIAN INDICATIONS SHALL BE COUNTDOWN TYPE. SEE CITY APPROVED PRODUCT LIST FOR LED MODULE SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE ADA ACCESS PAD TO PEDESTRIAN PUSH BUTTONS TO MEET ALL ADA ACCESSIBILITY REQUIREMENTS. PUSH BUTTON MUST BE LOCATED NEXT TO A LEVEL LANDING PAD (36" X 48" MINIMUM). LEVEL IS DEFINED AS HAVING A SLOPE LESS THAN 2%. LANDING PAD MUST BE WITHIN 5' EXTENSION OF THE CROSSWALK LINE. PUSH BUTTON MUST BE LOCATED WITHIN 6' (PREFERRED) OR 10' (MAXIMUM) FROM THE CURB. TWO PUSH BUTTONS ON THE SAME CORNER MUST BE SEPARATED BY AT LEAST 10'.
- MOUNTING LOCATION AND ORIENTATION OF ALL PEDESTRIAN INDICATIONS AND SIDE MOUNT SIGNAL POLE INDICATIONS SHALL BE CONFIRMED WITH THE CITY CIP INSPECTOR AND TRAFFIC OPERATIONS DIVISION IN THE FIELD PRIOR TO DRILLING POLES.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING CONSTRUCTION AND TEMPORARY TRAFFIC CONTROL PERMITS FROM THE CITY OF CHANDLER, ARIZONA DEPARTMENT OF TRANSPORTATION (IF APPLICABLE) AND MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION (IF APPLICABLE).
- ALL BACKPLATES FOR MAST ARM MOUNTED SIGNAL FACES SHALL BE THE LOUVERED TYPE.
- ALL CONDUCTORS USED ON THIS PROJECT SHALL CONFORM TO THE PLANS AND THE CONDUCTOR SCHEDULE GIVEN AND THE CURRENT ADOT STANDARD SPECIFICATION SUBSECTION 732-2. ALL CONDUIT USED ON THIS PROJECT SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE NOTE IN THE PLANS.
- CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH THE POWER SUPPLY COMPANY FOR SERVICE DROP INSTALLATION AND ENERGIZATION.

INTERNALLY ILLUMINATED SIGNAGE



NOTE:  
SEE CHANDLER STANDARD DETAIL C-606 FOR SIGN FORMATS.

CABINET AND POLE SCHEDULE

TRAFFIC SIGNAL CONTROLLER		REMARKS		LOCATION					
CABINET	TYPE	EQUIPMENT	REMARKS	LOCATION					
A	METERED SERVICE PEDESTAL	TESCO OR MYERS	SERVICE ADDRESS: 3693 E. QUEEN CREEK RD	QUEEN CREEK RD STA. 48+49 63' RT					
B	MOBOTREX ATC 4- DOOR CABINET AND CONCRETE PAD	MCCAIN ATC EX2 NEMA TS2 CONTROLLER	SEE NOTES 6, 9, AND 10.	QUEEN CREEK RD STA. 48+04 82' RT					
TRAFFIC SIGNAL POLES		REMARKS		LOCATION					
NO.	LAYOUT	TYPE	SIG.	LUM.	MTG.	FACE	P.B. SIGN	REMARKS	LOCATION
C		RC	55'	20'	1-II 2-II 1-V	1-FYA 2-F 1-F	-	1. SEE NOTES 1, 3, 4, 5, AND 8.	QUEEN CREEK RD STA. 48+27 55' RT
D		A (10')	-	-	1-IV 1-VII	1-F 2-M/H	R10-4b (L)	1. SEE NOTES 2 AND 7.	QUEEN CREEK RD STA. 48+14 61' RT
E		PPB	-	-	-	-	R10-4b (L)	1. SEE NOTE 2.	QUEEN CREEK RD STA. 48+03 64' RT
F		QC	40'	20'	2-II 1-V 1-V 1-VII	2-F 1-F 1-FYA 2-M/H	R10-4b (L)	1. SEE NOTES 1, 2, 3, 4, 5, AND 7.	QUEEN CREEK RD STA. 47+30 80' RT
G		PPB	-	-	-	-	R10-4b (R)	1. SEE NOTE 2.	QUEEN CREEK RD STA. 47+20 72' RT
H		RC	55'	20'	1-II 2-II 1-V 1-V	1-FYA 2-F 1-F 1-M/H	R10-4b (L)	1. SEE NOTES 1, 2, 3, 4, 5, AND 7.	QUEEN CREEK RD STA. 47+18 58' LT
I		A (10')	-	-	1-IV 1-V	1-F 1-M/H	R10-4b (R)	1. SEE NOTES 2 AND 7.	QUEEN CREEK RD STA. 47+38 78' LT
J		QC	35'	20'	2-II 1-V 1-V 1-VII	2-F 1-F 1-FYA 2-M/H	R10-4b (L)	1. SEE NOTES 1, 2, 3, 4, 5 AND 7.	QUEEN CREEK RD STA. 48+06 80' LT
K		PPB	-	-	-	-	R10-4b (R)	1. SEE NOTE 2.	QUEEN CREEK RD STA. 48+18 75' LT

- CABINET AND POLE SCHEDULE NOTES:
- INSTALL OPTICOM 721 SERIES EMERGENCY VEHICLE DETECTOR (EVD) ON SIGNAL MAST ARM.
  - INSTALL TYPE I PEDESTRIAN PUSH BUTTON PER ADOT STANDARD DETAIL T.S. 11-1. CAMPBELL GUARDIAN 5.0 FS 912 WITH BLUETOOTH MODULE (501-0650).
  - INSTALL GE LUMINAIRE 120 VOLT OR APPROVED EQUAL.
  - INSTALL NEW INTERNALLY ILLUMINATED STREET NAME SIGN (ISNS) HOUSING AND BRACKET ASSEMBLY. FURNISH AND INSTALL NEW SIGN FACES PER CITY STANDARD DETAIL C-606.
  - INSTALL FLIR TRAFISENSE DUAL 2 VIDEO DETECTION SYSTEM WITH PELCO ASTRO-BRAC PRODUCT #AG-0169-74-96-PNC (ONE PER APPROACH AND MOUNT ON MAST ARM OF SIGNAL).
  - INSTALL ETHERWAN SWITCH MODEL NO. EX78934E-OVB 12-PORT 10/100/1000BASE-T(X) POE + 4-PORT 10/1000BASE SFP TRANSCEIVERS SFPGIS20M (DDM) (FOUR PER TRAFFIC SIGNAL CABINET).
  - INSTALL COUNTDOWN STYLE LED PEDESTRIAN SIGNAL HEADS.
  - INSTALL AXIS P5655-E(PTZ) CCTV CAMERA WITH AXIS T8134 60W MIDSPAN POE MOUNTED ON AXIS T91L61 WALL-AND-POLE.
  - INSTALL 12 PORT SC GATOR PATCH.
  - INSTALL ITERIS VELOCITY ARID TS2 RACK MOUNT PRODUCT #VELOCITY-RM WITH ONE ITERIS VELOCITY ARID BLUETOOTH PRODUCT #VEL-ADAPTER-BT, ONE ITERIS VELOCITY ARID WIFI PRODUCT #VEL-ADAPTER-WIFI AND ONE ITERIS VELOCITY ARID ANTENNA PRODUCT #VEL-ANT-NO-BKT.

**CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL CHANGE WARNING SIGNS ON SPRING STANDS FOR ALL DIRECTIONS FOR A PERIOD OF 30 DAYS (FLAGGED AND LIGHTED) COORDINATE WITH DANNY MARTINEZ FOR TEMPORARY WARNING SIGNS. HE IS WITH THE STRIPING DEPARTMENT AND CAN BE REACHED AT DANNY.MARTINEZ@CHANDLERAZ.GOV**



**Kimley»Horn**  
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78386 Sarah Montgomery  
 Professional Engineer  
 ARIZONA, U.S.A.

SCALE (H): 1"=20'  
 SCALE (V): N/A  
 DESIGNED BY: SJM  
 DRAWN BY: LIM  
 CHECKED BY: KAC  
 DATE: 09/2024

CITY OF CHANDLER  
 QUEEN CREEK RD & LAYTON LAKES BLVD  
 TRAFFIC SIGNAL IMPROVEMENTS  
 POLE SCHEDULE & CONDUCTOR SCHEDULE

CITY PROJECT NO. DS2202.401  
 C.O.C. LOG NO. CIV23-0048  
 SHEET DWG TS02  
 8 OF 10

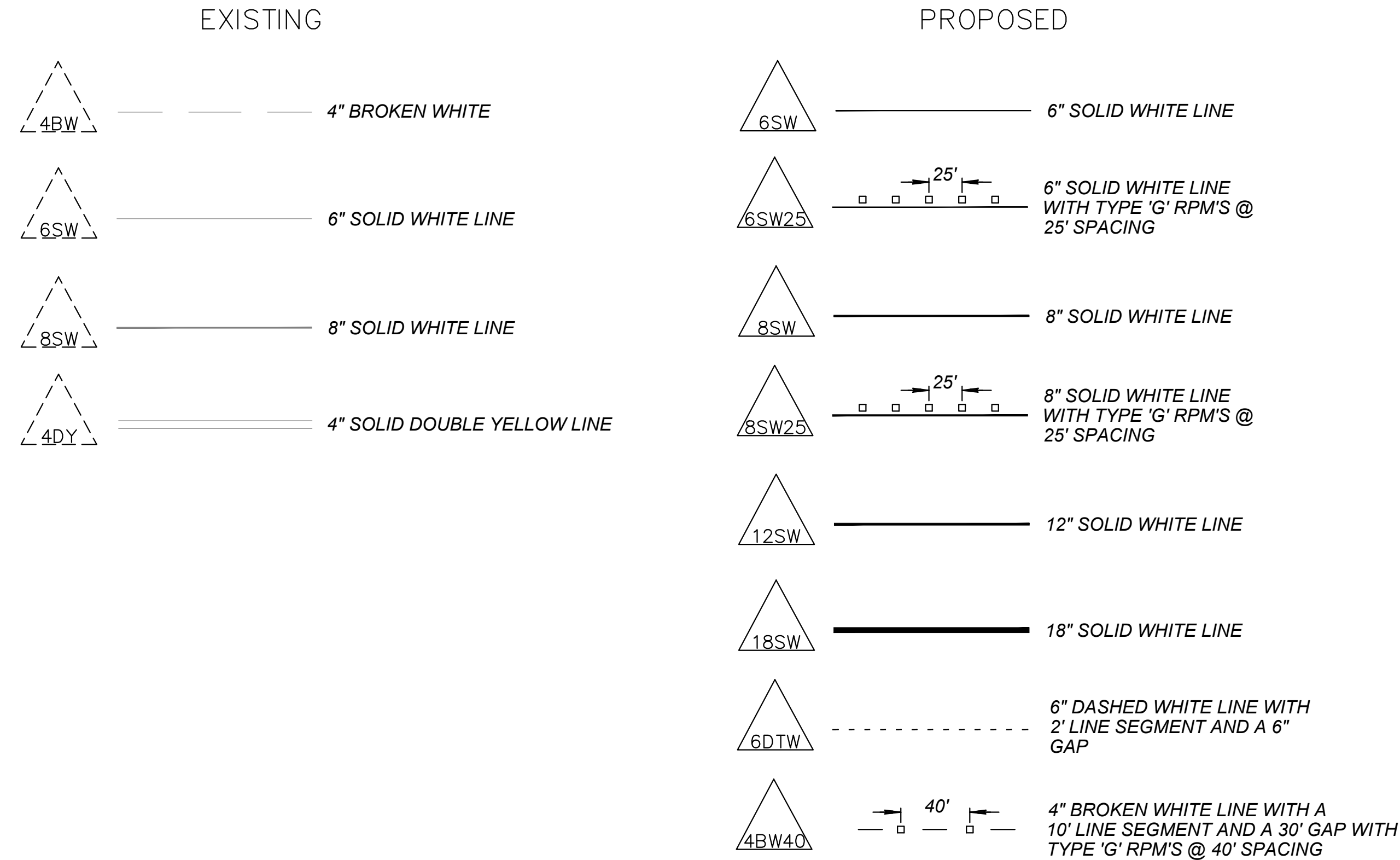
C.O.C. LOG NO. CIV 23-0048 TRAFFIC SIGNAL AT LAYTON LAKES BLVD & QUEEN CREEK RD



**SIGNING AND STRIPING GENERAL NOTES (REVISED 12-18-19)**

1. THE CITY TRANSPORTATION ENGINEER'S OFFICE SHALL BE NOTIFIED 5 BUSINESS DAYS PRIOR TO STARTING ANY SIGNING OR STRIPING WORK AT (480) 782-3454.
2. ALL PAVEMENT MARKINGS, SIGN MATERIALS AND CONSTRUCTION SHALL CONFORM TO ARIZONA DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
3. SIGN LOCATIONS AND OFFSETS MAY BE ADJUSTED BY THE CITY TRANSPORTATION ENGINEER TO IMPROVE VISIBILITY.
4. ALL MEDIAN NOSES SHALL BE PAINTED YELLOW WITH REFLECTIVE GLASS BEADS PER C-617.
5. ALL RAISED PAVEMENT REFLECTORS SHALL BE INSTALLED WITH CRAFCO PAVEMENT REFLECTOR ADHESIVE, OR EQUAL.
6. ALL TRAFFIC CONTROL SIGNS, EXCEPT STOP SIGNS, SHALL BE ATTACHED TO STREETLIGHT POLES IF THE POLE IS WITHIN 25 FT. OF SIGN LOCATION AS SHOWN ON THE SIGNING AND STRIPING PLANS.
7. ALL CROSSWALKS, STOP BARS, MINI-SKIPS, TURN ARROWS AND LEFT TURN LANE STRIPING SHALL BE THERMOPLASTIC.
8. ALL TRAFFIC CONTROL SIGNS SHALL BE CONSTRUCTED OF HIGH INTENSITY GRADE SHEETING SCREENED WITH 3-M APPROVED INKS OR EQUIVALENT APPROVED BY THE TRANSPORTATION DIVISION. WARRANTY DOCUMENTS ARE REQUIRED AND SHALL BE SUBMITTED PRIOR TO FINAL JOB ACCEPTANCE.
9. ALL EXISTING SIGNS TEMPORARILY REMOVED BY THE CONTRACTOR SHALL BE SALVAGED FOR REINSTALLATION BY THE CONTRACTOR. ALL EXISTING SIGNS PERMANENTLY REMOVED BY THE CONTRACTOR SHALL BE SALVAGED FOR RETURN TO THE CITY SIGN SHOP.
10. ALL CONFLICTING PAVEMENT MARKINGS WILL BE OBLITERATED BY WATER BLASTING BY THE CONTRACTOR. GRINDING IS NOT PERMITTED.
11. A SEALANT APPROVED BY THE CITY OF CHANDLER STREET DIVISION SHALL BE APPLIED BY THE CONTRACTOR TO ALL AREAS OF PAVEMENT MARKING OBLITERATION. REFER TO THE LIST OF APPROVED PRODUCTS.
12. THE CITY TRANSPORTATION ENGINEER MAY REQUIRE THE CONTRACTOR TO ADJUST SIGNING AND STRIPING AS NECESSARY.
13. ALL CONFLICTING SIGNAGE SHALL BE REMOVED BY THE CONTRACTOR.
14. ALL CITY SIGNS MUST BE RETURNED TO THE CITY SIGN SHOP.
15. SEE CITY OF CHANDLER DETAIL C-617 FOR MEDIAN NOSE PAINTING.

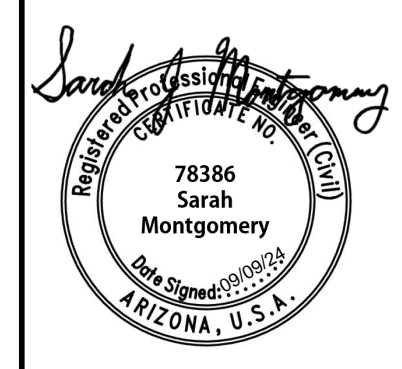
**CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL CHANGE WARNING SIGNS ON SPRING STANDS FOR ALL DIRECTIONS FOR A PERIOD OF 30 DAYS (FLAGGED AND LIGHTED) COORDINATE WITH DANNY MARTINEZ FOR TEMPORARY WARNING SIGNS. HE IS WITH THE STRIPING DEPARTMENT AND CAN BE REACHED AT DANNY.MARTINEZ@CHANDLERAZ.GOV**



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NO.	REVISIONS	DATE	BY

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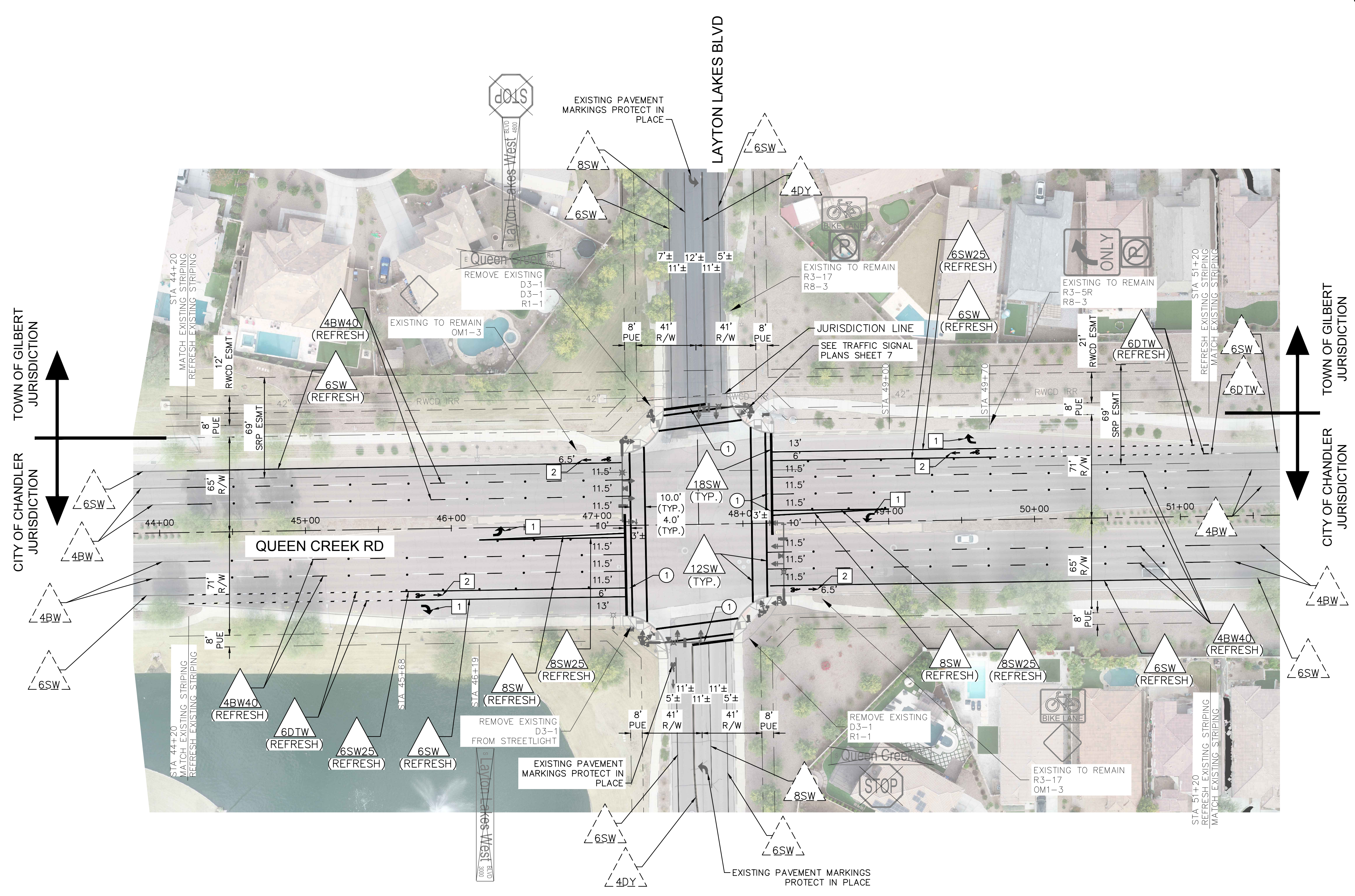
CITY OF CHANDLER  
 QUEEN CREEK RD & LAYTON LAKES BLVD  
 TRAFFIC SIGNAL IMPROVEMENTS  
 PAVEMENT MARKING GENERAL NOTES AND LEGEND

CITY PROJECT NO. DS2202.401
C.O.C. LOG NO. CIV23-0048
SHEET DWG SM00
9 OF 10



C.O.C. LOG NO. CIV 23-0048 TRAFFIC SIGNAL AT LAYTON LAKES BLVD & QUEEN CREEK RD

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REMOVAL NOTES	
NO.	DESCRIPTION
①	OBLITERATE EXISTING STRIPE

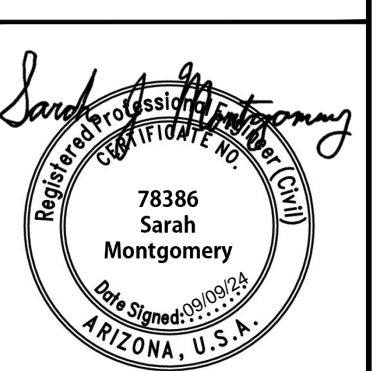
  

NOTES	
NO.	DESCRIPTION
1	REFRESH THERMOPLASTIC TURN ARROW
2	NEW TYPE II (HIGH BUILD) BIKE SYMBOL & ARROW

NO.	REVISIONS	DATE	BY

**Kimley»Horn**

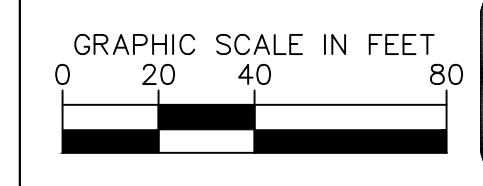
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SCALE (H):	1"=40'
SCALE (V):	N/A
DESIGNED BY:	SJM
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DATE:	09/2024

**CITY OF CHANDLER**  
**QUEEN CREEK RD & LAYTON LAKES BLVD**  
**TRAFFIC SIGNAL IMPROVEMENTS**  
**SIGNING AND PAVEMENT MARKING PLAN**

CITY PROJECT NO.	DS2202.401
C.O.C. LOG NO.	CIV23-0048
SHEET DWG	SM01
10 OF 10	



C.O.C. LOG NO. CIV 23-0048 TRAFFIC SIGNAL AT LAYTON LAKES BLVD & QUEEN CREEK RD