

GENERAL NOTES FOR CONSTRUCTION

- AT LEAST ONE INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION (IMSA) LEVEL I AND ONE LEVEL II CERTIFIED TRAFFIC SIGNAL TECHNICIAN ON SITE DURING ALL PHASES OF ANY TRAFFIC SIGNAL WORK. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE VERIFICATION OF CERTIFICATION. IF A JOB IS INSPECTED AND A CERTIFIED TECHNICIAN IS NOT ON SITE, THE JOB WILL BE SHUT DOWN.
- TRAFFIC CONTROL SHALL CONFORM TO THE CITY OF FLAGSTAFF TRAFFIC BARRICADE STANDARDS AND/OR AS DIRECTED BY THE CITY OR ADOT INSPECTOR.
- UTILITY LOCATIONS SHOWN ARE BASED UPON THE BEST AVAILABLE INFORMATION AT THE TIME. 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 BLUE STAKE AND ALL INVOLVED AGENCIES PRIOR TO CONSTRUCTION.
- CONTACT APPROPRIATE UTILITIES FOR UTILITY LOCATION PRIOR TO START OF CONSTRUCTION.
- ALL TRAFFIC EQUIPMENT AND CONSTRUCTION SHALL CONFORM TO THE ADOT STANDARDS, STANDARD SPECIFICATIONS, DRAWINGS AND REQUIREMENTS.
- ALL EXISTING TRAFFIC CONTROL DEVICES (INCLUDING STOP SIGNS) AND STREET LIGHTS SHALL REMAIN IN OPERATION UNTIL NEW INSTALLATIONS ARE ENERGIZED AND OPERATIONAL.
- ALL UNDERGROUND MATERIALS (INCLUDING CONDUIT, FOUNDATIONS, PULL BOXES, SIDEWALK, AND CURB AND GUTTER) SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED ON PLANS OR IN THE SPECIFICATIONS.
- PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL CONTACT THE CITY TRAFFIC DEPARTMENT TO COORDINATE INSPECTION REQUIREMENTS AND THE PRE-CONSTRUCTION MEETING.
- PRIOR TO START OF WORK, CONTRACTOR TO NOTIFY ADOT TRAFFIC SIGNAL SUPERVISOR A MINIMUM OF 72 HOURS IN ADVANCE.
- ALL SURFACE MATERIALS, INCLUDING LANDSCAPING AND SPRINKLER SYSTEMS, THAT ARE DISTURBED BY EXCAVATING AND BACKFILLING OPERATIONS SHALL BE REPLACED IN KIND EQUAL TO OR EXCEEDING ORIGINAL CONDITIONS.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS PRIOR TO CONSTRUCTION.
- ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE ADOT INSPECTOR AND/OR ALL WORK AND MATERIAL NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- ADOT IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL "TRAFFIC CONTROL CHANGE AHEAD" SIGN ON U-CHANNEL POSTS ON EACH APPROACH TO THE INTERSECTION. SIGNS SHALL BE REMOVED BY THE CONTRACTOR AFTER 45 DAYS.
- ALL SIGNS AND STRIPING SHALL BE INSTALLED PRIOR TO THE DAY OF SIGNAL TURN ON.
- ALL QUESTIONS CONCERNING TRAFFIC SIGNAL DESIGN SHOULD BE DIRECTED TO CIVTECH INC., 10605 N. HAYDEN RD., SUITE 140, SCOTTSDALE AZ, 480-659-4250, ATTN: JAY YENERICH.

GENERAL NOTES FOR TRAFFIC SIGNALS

- ALL MATERIAL AND INSTALLATION SHALL CONFORM TO THE 2008 STANDARD SPECIFICATIONS AND ADOT'S MOST CURRENT TRAFFIC SIGNALS AND LIGHTING STANDARD DRAWINGS.
- THE LOCATIONS OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. ALL INVOLVED UTILITIES MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE, PER SECTION 730-6 OF THE STANDARD SPECIFICATIONS, FOR CONTACTING ALL UTILITIES FOR EXACT LOCATIONS PRIOR TO ANY CONSTRUCTION ACTIVITY.
- FOR ELECTRICAL SERVICE, THE CONTRACTOR SHALL COORDINATE WITH DANNY CAPLES OF CITIZENS ELECTRIC COMPANY AT (928) 692-2760. ALL APPLICATIONS FEES AND CONNECTIONS FEES WILL BE PAID BY THE CONTRACTOR TO CITIZENS ELECTRIC COMPANY AFTER REVIEW BY THE ADOT ENGINEER. THE CONTRACTOR WILL THEN SUBMIT THE PAID INVOICES TO THE RESIDENT ENGINEER FOR REIMBURSEMENT THROUGH ITEM NUMBER 9240015, PROVIDE ELECTRICAL SERVICES. SEE SPECIAL PROVISIONS.
- SEE STRIPING PLANS TO VERIFY ACTUAL LANE DIMENSIONS AND STOP BAR LOCATIONS.
- ALL BACK PLATES FOR SIGNAL FACES SHALL BE LOUVERED.
- ALL PULL BOXES SHALL BE LEFT IN A CLEAN CONDITION, FREE OF DIRT AND DEBRIS UPON COMPLETION OF THE WORK.
- EXTEND CONDUITS TO NEW PULL BOX LOCATIONS AS SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL FIELD VERIFY ALL POLE LOCATIONS WITH THE ENGINEER, PRIOR TO ANY CONSTRUCTIONS ACTIVITY.
- TOP OF POLE FOUNDATION SHALL BE THE SAME ELEVATION AS THE TOP OF THE FINISHED SIDEWALK RAMP, OR THE ADJACENT FINISHED ROADWAY SURFACE, IN SLOPED AREAS. CONSTRUCT COMPACTED FILL AROUND FOUNDATIONS FOR FULL STRUCTURAL SUPPORT AT POLES.
- NEW TRAFFIC SIGNAL EQUIPMENT SHALL BE OPERATIONAL BEFORE EXISTING TRAFFIC SIGNAL EQUIPMENT IS TAKEN OUT OF SERVICE AND REMOVED.
- NEW CONDUIT UNDER ROADWAY SHALL BE PLACED BY HORIZONTAL DRILLING METHOD. CONTRACTOR SHALL NOT TRENCH EXISTING PAVEMENT WITHOUT PRIOR APPROVAL OF ADOT INSPECTOR.
- APPLICABLE SIGNAL INDICATIONS SHALL BE WIDE ANGLE LED TYPE LAMPS IN ACCORDANCE WITH THE ADOT STANDARD DETAILS.
- ALL PEDESTRIAN INDICATIONS SHALL BE LEDS. PEDESTRIAN INDICATORS SHALL BE COUNTDOWN STYLE.
- THE EMERGENCY VEHICLE PRE-EMPTION SHALL BE PER ADOT REQUIREMENTS. THE CONTRACTOR AND ADOT ARE TO TEST THE SYSTEM AND SHALL HAVE A REPRESENTATIVE FROM THE EMERGENCY VEHICLE PRE-EMPTION SYSTEM ON SITE FOR TESTING WITH ADOT ON THE SIGNAL TURN ON DATE.
- ALL POLES, PULLBOX LOCATIONS, AND FOUNDATIONS SHALL BE FIELD LOCATED BY THE CONTRACTOR AND VERIFIED BY THE ADOT INSPECTOR PRIOR TO CONSTRUCTION.
- ALL SIGNAL FOUNDATIONS SHALL BE FLAT, NOT DISHED OR BLOCKED/OUT. FOUNDATIONS SHALL BE NO LOWER THAN BACK OF SIDEWALK AND/OR 6 1/2 INCH ABOVE THE EDGE OF THE ROAD AND SHALL NOT BE GROUTED.
- THE VIDEO DETECTION CABLE SHALL RUN UN-SPLICED FROM THE CONTROL CABINET TO THE CAMERA.
- REFER TO POLE SCHEDULE, DETAILS, TABLES, AND EQUIPMENT NOTES FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL CONTACT ADOT 48 HOURS BEFORE DRILLING POLES FOR NEW ADA PUSH BUTTON ASSEMBLIES AND TRAFFIC SIGNAL MOUNTING ASSEMBLIES FOR EXACT LOCATIONS. MOUNTING AND NIPPLES SHALL HAVE SUFFICIENT LENGTH TO ACCOMPLISH INTENDED FACE VISIBILITY.
- THE CONTRACTOR SHALL PROVIDE AND USE "3M SEAL PACKS" FOR ALL CONDUCTOR SPLICES IN PULL BOXES. THE CONTRACTOR SHALL PROVIDE AND USE SPLIT-BOLTS FOR SPLICING ALL NEUTRALS AND GROUNDING CONDUCTORS IN PULL BOXES.
- THE CONTRACTOR SHALL CONTACT ADOT TO SCHEDULE THE WIRING OF THE SIGNAL CABINET, A MINIMUM OF 5 WORKING DAYS IN ADVANCE.

ABBREVIATIONS

- C CONCRETE
- COF CITY OF FLAGSTAFF
- DET DETAIL
- EG EXISTING GRADE
- EX EXISTING
- FG FINISHED GRADE
- FL FLOWLINE
- GB GRADE BREAK
- NTS NOT TO SCALE
- OC ON CENTER
- PB PUSHBUTTON
- PED PEDESTRIAN
- PROP PROPOSED
- R RADIUS
- SHT SHEET
- STD STANDARD
- TF TOP OF FOOTING
- TW TOP OF WALL
- TYP TYPICAL
- WWF WELDED WIRE FABRIC

LEGEND

- CENTERLINE
- RIGHT OF WAY
- NEW TRAFFIC SIGNAL CONDUIT
- FO--- NEW FIBER OPTIC CONDUIT
- IC--- NEW INTERCONNECT CONDUIT
- EXISTING TRAFFIC SIGNAL CONDUIT
- FO--- EXISTING FIBER OPTIC CONDUIT
- IC--- EXISTING INTERCONNECT CONDUIT
- NEW TRAFFIC SIGNAL "A" POLE
- NEW TRAFFIC SIGNAL POLE
- EXISTING TRAFFIC SIGNAL "A" POLE
- EXISTING TRAFFIC SIGNAL POLE
- ◀▶ TRAFFIC SIGNAL HEAD
- ◀▶ EXISTING TRAFFIC SIGNAL HEAD
- ▲▲ CIRCULAR RAPID FLASHING BEACONS
- ▣▣ METER PEDESTAL
- ▣▣ CONTROLLER CABINET
- NO. 5 PULL BOX
- NO. 7 PULL BOX
- ▣▣ NO. 7 PULL BOX WITH EXTENSION
- ▣▣ NO. 9 PULL BOX
- ▣▣ PEDESTRIAN SIGNAL HEAD
- ↓ PEDESTRIAN PUSH BUTTON
- ▣▣ CCTV CAMERA
- ◀▶ VIDEO DETECTION UNIT
- ◀▶ EMERGENCY VEHICLE PRE-EMPTION
- PS STREET NAME SIGN
- PS POINT OF ELECTRICAL SERVICE
- XX TRAFFIC SIGNAL EQUIPMENT IDENTIFIER (SEE POLE SCHEDULE)
- XX CONDUIT RUN NUMBER (SEE CONDUCTOR SCHEDULE)
- XX PULL BOX IDENTIFIER
- XX CONSTRUCTION NOTE IDENTIFIER

CAUTION
OVERHEAD POWER & UNDERGROUND UTILITIES

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

* ALL STATIONING FROM MILTON ROAD FOR THIS SHEET. STATIONS AND OFFSETS SHOWN ARE APPROXIMATE. ACTUAL LOCATIONS ARE TO BE FIELD VERIFIED BY THE SIGNAL INSPECTOR PRIOR TO SIGNAL POLE AND EQUIPMENT INSTALLATION.

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CivTech Inc.
10605 N. Hayden Rd., Suite 140
Scottsdale, AZ 85260
480.659.4250 p
480.659.0566 f
info@civtech.com

REV/DATE	DESC.

CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU BEGIN EXCAVATION.

ARIZONA 811
Arizona 811 Service, Inc.
DIAL 8-1-1 OR 1-800-STATE-IT (762-5348)
IN MARICOPA COUNTY: (602) 265-1100

JOB NO. 19-1140	1ST SUBMITTAL: 03/15/2021	S. PEÑA
2ND SUBMITTAL:	3RD SUBMITTAL:	S. PEÑA
DESIGN:	DRAWN:	J. YENERICH
CHECKED:		

MILTON & BEULAH TRAFFIC SIGNALS
FLAGSTAFF, ARIZONA

Traffic Signal General Notes

PRELIMINARY
90%
Review

NOT FOR CONSTRUCTION OR RECORDING

SHEET
TS-01
01 OF 06

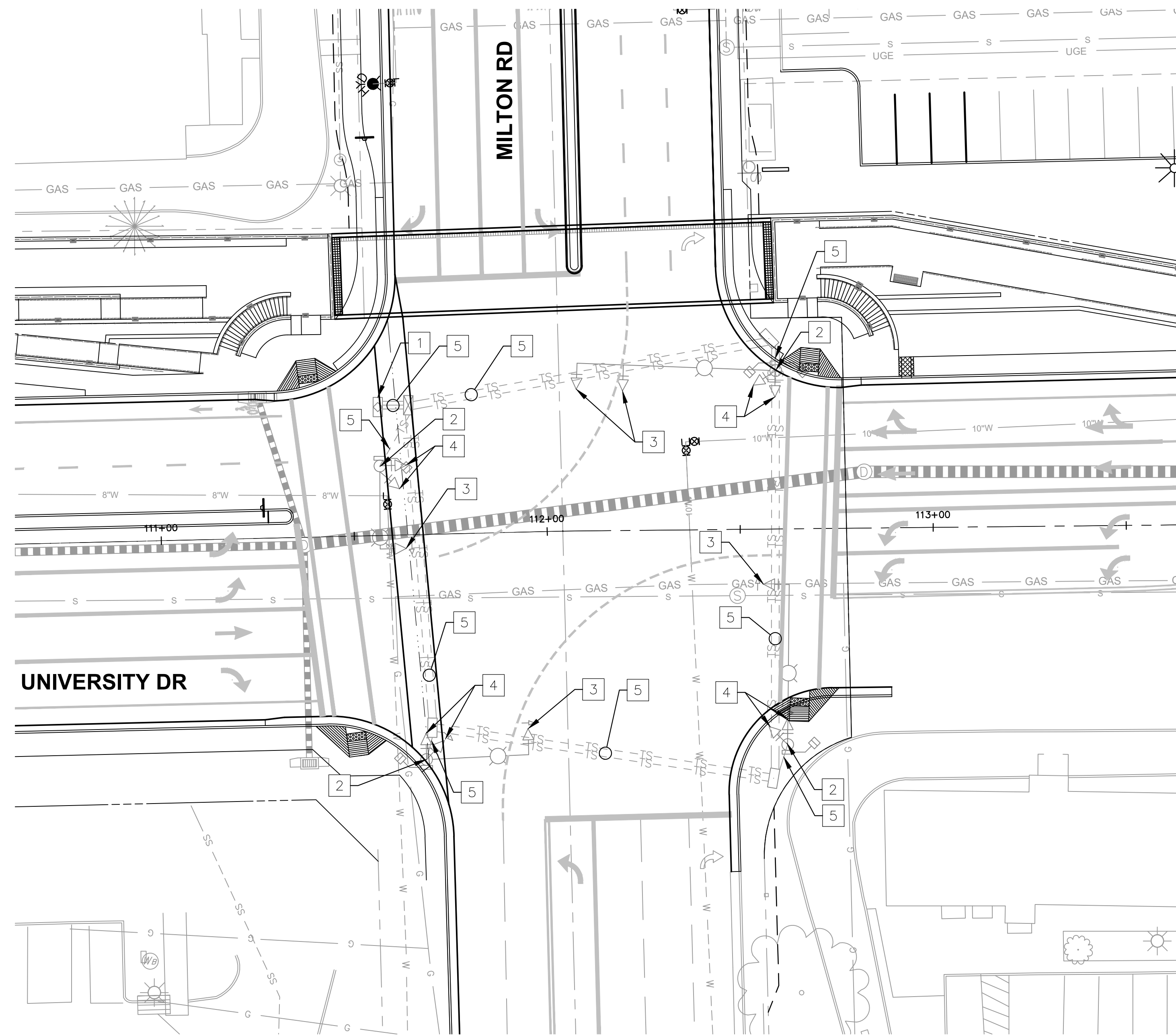
SERVICE ADDRESS
XXXX S. MILTON RD
FLAGSTAFF, AZ 86001

EXISTING SIGNALS NOTES (REMOVE & SALVAGE)

1. REMOVE AND SALVAGE EXISTING POLES, MAST ARMS, LUMINAIRES, MOUNTING ASSEMBLIES, CONTROL CABINET AND SIGNAL FACES. THE SALVAGED EQUIPMENT SHALL BE DELIVERED TO THE ADOT TRAFFIC OPERATIONS SUPPLY CENTER, XXXXXXXXXXXX, FLAGSTAFF, ARIZONA. WHEN IT IS READY FOR DELIVERY THE CONTRACTOR SHALL CONTACT XXXXXXXX AT XXX-XXX-XXXX.
2. ALL EXISTING PULL BOXES AND FOUNDATIONS (NOT BEING USED) SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AS PER SECTIONS 202-3.04 AND SECTIONS 737-3.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
3. REMOVE AND DISPOSE OF THE EXISTING CONDUITS AND CONDUCTORS NOT BEING USED, PER SECTION 737-3.03 OF THE STANDARD SPECIFICATIONS, OR AS DIRECTED BY THE ENGINEER.

CONSTRUCTION NOTES

1. REMOVE EXISTING CONTROL CABINET AND METER PEDESTAL.
2. EXISTING TRAFFIC SIGNAL POLE AND EQUIPMENT TO BE REMOVED.
3. REMOVE AND SALVAGE EXISTING TYPE F AND TYPE R TRAFFIC SIGNAL HEAD AND TYPE II MOUNT AND DELIVER TO ADOT.
4. REMOVE AND SALVAGE EXISTING TYPE F TRAFFIC SIGNAL HEADS AND TYPE V/VII MOUNTS AND DELIVER TO ADOT.
5. REMOVE PULL BOXES AND ABANDON EXISTING CONDUIT IN PLACE.



LEGEND

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- ▭ STREET NAME SIGN
- PS POINT OF ELECTRICAL SERVICE
- ⊗ TRAFFIC SIGNAL EQUIPMENT IDENTIFIER (SEE POLE SCHEDULE)
- ⊗ CONDUIT RUN NUMBER (SEE CONDUCTOR SCHEDULE)
- ▲ PULL BOX IDENTIFIER
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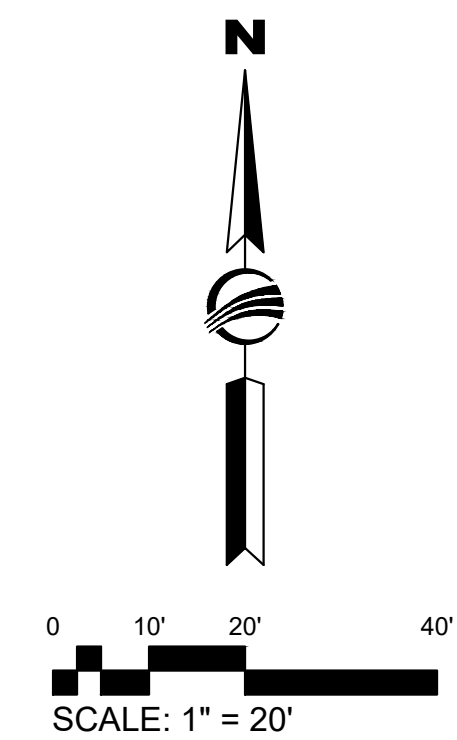
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1ST SUBMITTAL:	03/15/2021
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DESIGN:	S. PEÑA
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MILTON & BEULAH TRAFFIC SIGNALS
 FLAGSTAFF, ARIZONA

Traffic Signal Removal Plan
 Milton Road and University Drive



CAUTION
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PRELIMINARY
90%
 Review

NOT FOR
 CONSTRUCTION
 OR RECORDING

SHEET
 TS-02
 02 OF 06

SERVICE ADDRESS
 XXXX S. MILTON RD
 FLAGSTAFF, AZ 86001

EQUIPMENT NOTES

1. THE CONTROL CABINET SHALL BE WIRED AND LABELED WITH THE SAME PHASE NUMBER DESIGNATIONS FOR INITIAL AND FUTURE PHASES AS SHOWN IN THE PHASE MOVEMENT DIAGRAM, OR AS NOTED ON THE PLANS. ANY CONTROL CABINET NOT WIRED ACCORDINGLY WILL BE REJECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL POLE LOCATIONS WITH THE ENGINEER PRIOR TO ANY CONSTRUCTION ACTIVITY.
3. ALL EXPOSED CONDUIT AND FITTINGS INSTALLED ABOVE GROUND SHALL BE RIGID METAL PER THE STANDARD SPECIFICATIONS.
4. THE CONTRACTOR SHALL CONTACT XXXXXX OF ADOT AT (XXX) XXX-XXXX BEFORE DRILLING POLES FOR PUSH BUTTON ASSEMBLIES AND TRAFFIC SIGNAL MOUNTING ASSEMBLIES, FOR EXACT LOCATION.
5. THE CONTRACTOR SHALL CONTACT XXXXXX OF ADOT AT (XXX) XXX-XXXX TO SCHEDULE THE WIRING OF THE SIGNAL CABINET.
6. THE CONTRACTOR SHALL CONTACT XXXXXX OF ADOT AT (XXX) XXX-XXXX TO SCHEDULE THE SIGNAL TURN-ON. THE ADOT ELECTRICAL INSPECTOR SHALL SCHEDULE THE SIGNAL TURN-ON WITH ADOT TRAFFIC OPERATIONS, A MINIMUM OF 10 DAYS IN ADVANCE.
7. THE LOOP DETECTORS SHALL EACH HAVE A SEPARATE CHANNEL IN THE CONTROL CABINET AND THE DETECTOR RACK. THE CABINET AND THE RACK SHALL BE WIRED FOR DELAY TIMING CAPABILITY.
8. ALL STRIPING SHALL BE INSTALLED PRIOR TO THE DAY OF TURN-ON.
9. ALL LOOP DETECTORS SHALL BE INSTALLED AND FUNCTIONAL BEFORE THE DAY OF TURN-ON.
10. THE CONTROL CABINET SHALL BE DELIVERED TO ADOT TRAFFIC OPERATIONS CENTER AT XXXXXXXXXXXXXXXX, FLAGSTAFF, ARIZONA FOR TESTING PER SECTION 734-2.01 (E) & (F) OF THE STANDARD SPECIFICATIONS.
11. A RAISED PCC PAD 48" X 4" X 48" SHALL BE PLACED IN FRONT OF CABINET FOUNDATION. PAD SHALL BE SET 2" BELOW THE FOUNDATION ELEVATION. SLOPE PAD AWAY FROM CABINET (2% MIN.). FOUNDATION AND RAISED PCC PAD SHALL BE INCLUDED AS PART OF CONTROLLER CABINET (TYPE V). SEE ADOT STD DWG T.S. 2-4.
12. IT WILL BE THE RESPONSIBILITY OF THE CONTROLLER MANUFACTURER TO PROVIDE TRAFFIC SIGNAL PHASING THAT WILL SUPPORT THE PHASE DIAGRAM NOTED ON THE TRAFFIC SIGNAL DESIGN. THE TRAFFIC SIGNAL CONTROLLER CABINET SHALL HAVE A 16 POSITION MAIN PANEL.
13. THE STATIONS AND OFFSET FOR TRAFFIC SIGNAL POLES WHICH ARE SHOWN ON THE PLANS AND IN THE POLE/EQUIPMENT SCHEDULE ARE APPROXIMATE. THE FINAL LOCATION OF EACH POLE SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR TO ENSURE THAT PEDESTRIAN PUSH BUTTON ASSEMBLIES ARE ACCESSIBLE TO WHEELCHAIR-BOUND PEDESTRIANS.
14. ALL PEDESTRIAN HEADS SHALL BE COUNTDOWN TYPE PER ADOT STD DWG T.S. 8-7.
15. INSTALL VIDEO DETECTION CAMERA ON LUMINAIRE MAST ARM AS SHOWN.
16. INSTALL ADA COMPLIANT AUDIBLE PEDESTRIAN PUSH BUTTON PER ADOT SPECIFICATIONS.

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CABINET AND POLE SCHEDULE									
CABINETS			REMARKS			LOCATION			
CABINET	TYPE	EQUIPMENT	ASSEMBLY NOTES						
(A) METER	METER PAD W/ BYPASS UPS	TESCO "ALL IN ONE" UPS SYSTEM	REMOVE EXISTING			XXX S. MILTON RD FLAGSTAFF, AZ 86001 FOUNDATION PER ADOT STD DWG NO. T.S. 2-6			
(B) CONTROLLER	NEMA TS2 TYPE 1	ECONOLITE COBALT NEMA TS2 TYPE 2 CONTROLLER	INSTALL NEW			-			
NO.	POLES	TYPE	MAST SIG.	ARMS LUM.	SIGNALS MTG.	FACE	PED P.B. SIGN	REMARKS	LOCATION
(C)	NEW ADOT TYPE "R" POLE (T.S. 4-15)	R	50'	20'	1-II 1-II 1-II 1-II 1-V 1-V	1-G 1-F 1-F 1-H 1-G 1-PED	R10-3e(R)	INSTALL NEW INSTALL R9-3 ON POLE INSTALL R9-3bR ON POLE INSTALL R9-2 ON POLE	STA 111+50, 63.5' RT
(D)	NEW ADOT TYPE "R" POLE (T.S. 4-15)	R	55'	20'	1-II 1-II 1-II 1-II 1-V 1-V	1-G 1-F 1-F 1-F 1-G 1-PED	R10-3e(L)	INSTALL NEW INSTALL R9-3 ON POLE INSTALL R9-3bL ON POLE INSTALL R9-2 ON POLE	STA 111+32, 45' LT
(E)	NEW ADOT TYPE "W" POLE (T.S. 4-17)	W	60'	20'	1-II 1-II 1-II 1-II 1-V 1-V	1-G 1-F 1-F 1-F 1-G 1-PED	R10-3e(R)	INSTALL NEW INSTALL R9-3 ON POLE INSTALL R9-3bL ON POLE INSTALL R9-2 ON POLE	STA 112+70, 53' LT
(F)	NEW ADOT TYPE "W" POLE (T.S. 4-17)	W	60'	20'	1-II 1-II 1-II 1-II 1-V 1-V	1-G 1-G 1-F 1-F 1-H 1-PED	R10-3e(L)	INSTALL NEW INSTALL R9-3 ON POLE INSTALL R9-3bR ON POLE INSTALL R9-2 ON POLE	STA 112+63, 63' RT

LEGEND

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- ⬆️ PEDESTRIAN SIGNAL HEAD
- ⬆️ PEDESTRIAN PUSH BUTTON
- ⬆️ CCTV CAMERA
- ⬆️ VIDEO DETECTION UNIT
- ⬆️ EMERGENCY VEHICLE PRE-EMPTION
- ⬆️ STREET NAME SIGN
- ⬆️ POINT OF ELECTRICAL SERVICE
- ⬆️ TRAFFIC SIGNAL EQUIPMENT IDENTIFIER (SEE POLE SCHEDULE)
- ⬆️ CONDUIT RUN NUMBER (SEE CONDUCTOR SCHEDULE)
- ⬆️ PULL BOX IDENTIFIER
- ⬆️ CONSTRUCTION NOTE IDENTIFIER

NO PEDESTRIAN CROSSING

Sign R9-3
18" x 18"

USE CROSSWALK

Sign R9-3L
18" x 12"

CROSS ONLY AT CROSS WALKS

Sign R9-2
12" x 18"

USE CROSSWALK

Sign R9-3R
18" x 12"

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ARIZONA 811
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PH: 8-1-1 OR 1-800-STATE-IT (762-5468)
IN MARICOPA COUNTY: (602) 265-1100

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2ND SUBMITTAL:	3RD SUBMITTAL:	S. PEÑA
DESIGN:	DRAWN:	S. PEÑA
CHECKED: J. YENERICH		

MILTON & BEULAH TRAFFIC SIGNALS
FLAGSTAFF, ARIZONA

Traffic Signal Equipment Schedule
Milton Road and University Drive

PRELIMINARY
90%
Review

NOT FOR CONSTRUCTION OR RECORDING

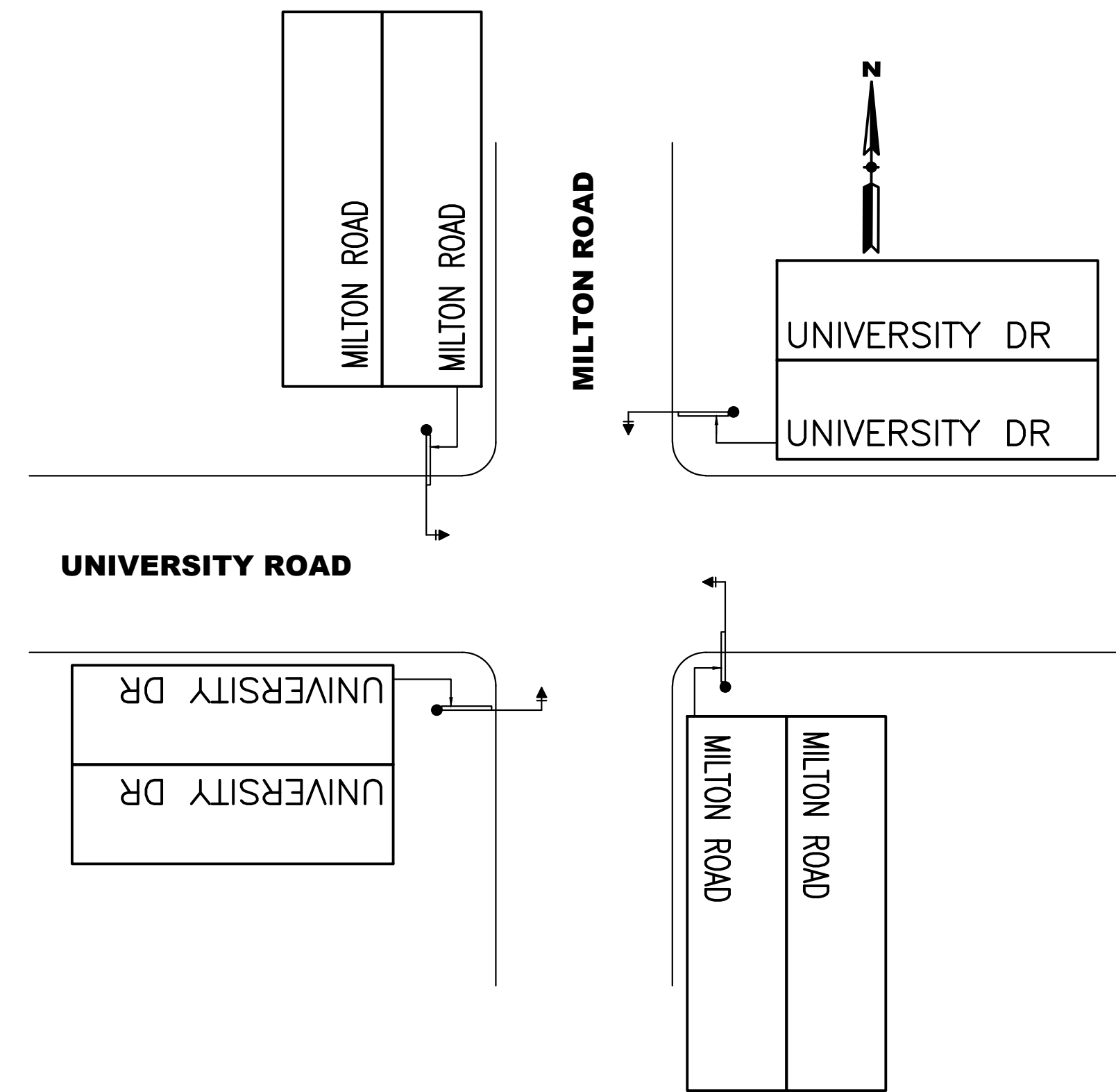
SHEET
TS-04
04 OF 06

SERVICE ADDRESS
XXXX S. MILTON RD
FLAGSTAFF, AZ 86001

CONDUCTOR SCHEDULE																				
	CONDUIT RUN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	CONDUIT SIZE (IN)	3	2	2	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	
AWG																				
IMSA	NUMBER OF CABLES				2			4	2	2	2	3	2	3	2	2	2	3	2	
	NUMBER OF CONDUCTORS				20			4	7	20	4	7	20	4	7	20	4	7	20	
	SIGNAL φ1				4			4	4		4							4		
	SIGNAL φ2				3												6			
	SIGNAL φ3				4				4			8			4	4			4	
	SIGNAL φ4				3			9	3										3	
	SIGNAL φ5				4										4	1			8	
	SIGNAL φ6				3					3		6							3	
	SIGNAL φ7				4				4	4									4	4
	SIGNAL φ8				3									9	3					
	SIGNAL OL_A				3			3												
	SIGNAL OL_B				3														3	
	SIGNAL COMMON						4	2			2	3			3	2		2	3	
	SIGNAL SPARES				9		3	4	22		0	6	40		0	4	32		0	6
#8	SIGNAL COMMON				1					1				1					1	
EVP	EVP POLE C					1		1												1
	EVP POLE D					1				1	1									
	EVP POLE E													1						
	EVP POLE F																1	1		1
Video Detection	POLE C					1		1												1
	POLE D					1				1	1									
	POLE E					1								1						
	POLE F					1											1	1		1
#12	LIGHTING 240V				2			2	2		2	2		2	2		2	2		
#6	SERVICE 120/240V				3															
#8	INSULATED BOND(GREEN)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SERVICE 120/240V		•																	
	CONDUIT RUN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	CONDUIT SIZE (IN)	3	2	2	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	

E - EXISTING CONDUIT
 • - INSTALLED BY APS
 * - NEW CONDUCTOR BY OTHERS

CONDUCTOR NOTES:
 (1) MINIMUM NUMBER OF CONDUCTORS REQUIRED (NON-I.M.S.A. TYPE)
 (2) MINIMUM NUMBER OF CABLES REQUIRED (INCLUDING I.M.S.A. TYPES)



TRAFFIC SIGNAL STREET NAME SIGNS
 PER CITY OF FLAGSTAFF ENGINEERING DETAIL 16-05-020
 * ROUTE 66 SIGN BACKGROUND TO BE WHITE LETTERING ON BROWN

CAUTION
 OVERHEAD POWER & UNDERGROUND UTILITIES

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
 CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

IMSA CABLE 19-1, #14 AWG HI-TEMP, 20 CONDUCTOR				
CABLE #1	CABLE #2	CONDUCTOR		SIGNAL INTERVAL
		BASIC COLOR	TRACER STRIPE	
φ1	φ5 OR OVERLAP A	RED	WHITE	RED
		BLACK	WHITE	YELLOW
		GREEN	WHITE	GREEN
φ2	φ6 OR OVERLAP B	RED	-	RED
		ORANGE	-	YELLOW
		GREEN	-	GREEN
φ3	φ7 OR OVERLAP C	BLACK	RED	RED
		ORANGE	RED	YELLOW
		BLUE	RED	GREEN
φ4	φ8 OR OVERLAP D	RED	BLACK	RED
		ORANGE	BLACK	YELLOW
		GREEN	BLACK	GREEN
φ2 PED.	φ6 PED.	BLUE	-	WALK
		BLACK	-	DON'T WALK
		WHITE	BLACK	PUSH BUTTON
φ4 PED.	φ8 PED.	BLUE	WHITE	WALK
		RED	GREEN	DON'T WALK
		WHITE	RED	PUSH BUTTON
COMMON	COMMON	WHITE	-	PUSH BUTTON COM
SPARE	SPARE	BLUE	BLACK	SPARE

IMSA CABLE 19-1, #14 AWG, 4 CONDUCTOR & 7 CONDUCTOR							
SIGNAL HEADS OUTBOARD & FAR LEFT		SIGNAL HEADS INBOARD & SIDEMOUNT		PEDESTRIAN HEADS		PUSH BUTTON	
7 CONDUCTOR CABLE		4 CONDUCTOR CABLE		4 CONDUCTOR CABLE		4 CONDUCTOR CABLE	
BASIC COLOR	SIGNAL INTERVAL	BASIC COLOR	SIGNAL INTERVAL	BASIC COLOR	SIGNAL INTERVAL	BASIC COLOR	PUSH BUTTON
RED	RED	RED	RED	RED	DON'T WALK	RED	PUSH BUTTON
BLACK	YELLOW	BLACK	YELLOW	GREEN	WALK	WHITE	P.B. COM.
GREEN	GREEN	GREEN	GREEN	WHITE	PED. COM.	GREEN	SPARE
ORANGE	YELLOW ARROW	WHITE	VEH. COM.	BLACK	SPARE	BLACK	SPARE
BLUE	GREEN ARROW						
WHITE	VEH. COM.						
WHT/BLK TR	VEH. COM.						

THE CABLE SHALL BE TAGGED AS TO ASSIGNED PHASE.

* ALL STATIONING FROM MILTON ROAD FOR THIS SHEET. STATIONS AND OFFSETS SHOWN ARE APPROXIMATE. ACTUAL LOCATIONS ARE TO BE FIELD VERIFIED BY THE SIGNAL INSPECTOR PRIOR TO SIGNAL POLE AND EQUIPMENT INSTALLATION.

* ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE CITY OF FLAGSTAFF & ADOT ENGINEER AND/OR ALL WORK AND MATERIAL NOT IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

SERVICE ADDRESS
 XXXX S. MILTON RD
 FLAGSTAFF, AZ 86001

CivTech Inc.
 10605 N. Hayden Rd.
 Suite 140
 Scottsdale, AZ 85260
 480.659.4250 p
 480.659.0566 f
 info@civtech.com

REV/DATE	DESC.

CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU BEGIN EXCAVATION.

ARIZONA 811
 Arizona 811
 1-800-4-A-ARIZONA
 1-800-4-ARIZONA
 IN MARICOPA COUNTY: (602) 265-1100

JOB NO. 19-1140	1ST SUBMITTAL: 03/15/2021	DESIGN: S. PEÑA	CHECKED: J. YENERICH
2ND SUBMITTAL:	3RD SUBMITTAL:	DRAWN: S. PEÑA	

MILTON & BEULAH TRAFFIC SIGNALS
 FLAGSTAFF, ARIZONA

Traffic Signal Conductor Schedule
 Milton Road and University Drive

PRELIMINARY
90%
 Review
 NOT FOR CONSTRUCTION OR RECORDING

SHEET
 TS-05
 05 OF 06

GENERAL NOTES FOR TRAFFIC SIGNALS

- ALL MATERIAL AND INSTALLATION SHALL CONFORM TO THE 2008 STANDARD SPECIFICATIONS AND ADOT'S MOST CURRENT TRAFFIC SIGNALS AND LIGHTING STANDARD DRAWINGS.
- THE LOCATIONS OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. ALL INVOLVED UTILITIES MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE, PER SECTION 730-6 OF THE STANDARD SPECIFICATIONS, FOR CONTACTING ALL UTILITIES FOR EXACT LOCATIONS PRIOR TO ANY CONSTRUCTION ACTIVITY.
- FOR ELECTRICAL SERVICE, THE CONTRACTOR SHALL COORDINATE WITH DANNY CAPLES OF CITIZENS ELECTRIC COMPANY AT (928) 692-2760. ALL APPLICATIONS FEES AND CONNECTIONS FEES WILL BE PAID BY THE CONTRACTOR TO CITIZENS ELECTRIC COMPANY AFTER REVIEW BY THE ADOT ENGINEER. THE CONTRACTOR WILL THEN SUBMIT THE PAID INVOICES TO THE RESIDENT ENGINEER FOR REIMBURSEMENT THROUGH ITEM NUMBER 9240015, PROVIDE ELECTRICAL SERVICES. SEE SPECIAL PROVISIONS.
- SEE STRIPING PLANS TO VERIFY ACTUAL LANE DIMENSIONS AND STOP BAR LOCATIONS.
- ALL BACK PLATES FOR SIGNAL FACES SHALL BE LOUVERED.
- ALL PULL BOXES SHALL BE LEFT IN A CLEAN CONDITION, FREE OF DIRT AND DEBRIS UPON COMPLETION OF THE WORK.
- EXTEND CONDUITS TO NEW PULL BOX LOCATIONS AS SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL FIELD VERIFY ALL POLE LOCATIONS WITH THE ENGINEER, PRIOR TO ANY CONSTRUCTIONS ACTIVITY.
- TOP OF POLE FOUNDATION SHALL BE THE SAME ELEVATION AS THE TOP OF THE FINISHED SIDEWALK RAMP, OR THE ADJACENT FINISHED ROADWAY SURFACE, IN SLOPED AREAS. CONSTRUCT COMPACTED FILL AROUND FOUNDATIONS FOR FULL STRUCTURAL SUPPORT AT POLES.

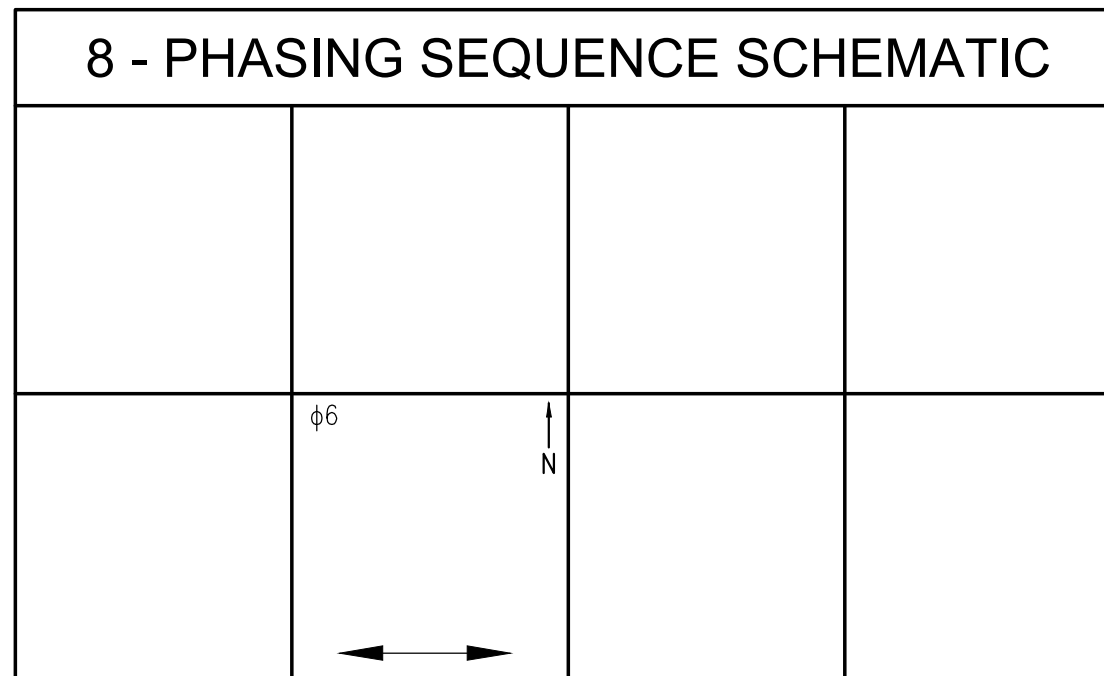
PULL BOX SCHEDULE

NO.	TYPE	LOCATION*	REMARKS
1	NO. 5	201+53, 45' LT	INSTALL NEW
2	NO. 5	201+47, 2' RT	INSTALL NEW
3	NO. 5	201+19, 1' LT	INSTALL NEW
4	NO. 5	201+14, 44' RT	INSTALL NEW

CONDUCTOR SCHEDULE

	CONDUIT RUN NO.	CONDUIT SIZE (IN)						
		1	2	3	4	5	6	7
AWG		3	3	3	3	3	3	3
MSA	NUMBER OF CABLES	1	1	1	1	1	1	1
	NUMBER OF CONDUCTORS	4	4	4	4	4	4	4
	SIGNAL HEADS	1	1	1	1	1	1	1
	SIGNAL COMMON	1	1	1	1	1	1	1
#8	SIGNAL SPARES	1	1	1	1	1	1	1
	SIGNAL COMMON	1	1	1	1	1	1	1
#12	LIGHTING	240V	1	1				1
#8	INSULATED BOND(GREEN)		1	1	1	1	1	1
			1	2	3	4	5	6
	CONDUIT RUN NO.		3	3	3	3	3	3
	CONDUIT SIZE (IN)		3	3	3	3	3	3

8 - PHASING SEQUENCE SCHEMATIC



POLE SCHEDULE

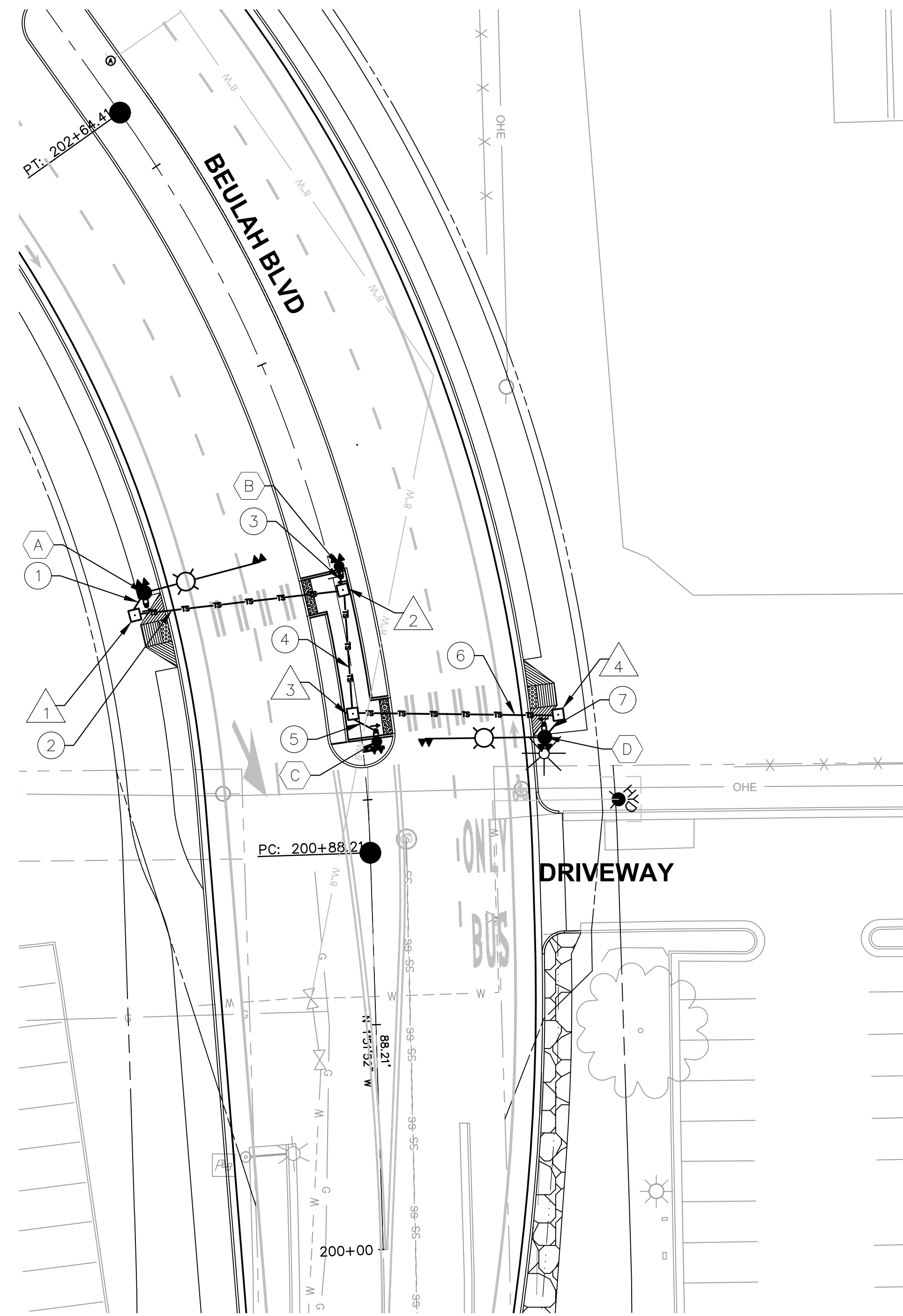
NO.	POLES	TYPE	MAST ARMS		SIGNALS			PED P.B. SIGN	REMARKS	LOCATION
			SIG.	LUM.	MTG.	FACE				
(A)(D)	NEW ADOT TYPE "Q" POLE (T.S. 4-13) (C.O.F. DTL 16-04-010)	Q	25'	10'	1-VII 1-VII	1-D 1-D	R10-3e(R)	INSTALL NEW	STA 201+58, 41' LT STA 201+10, 40' RT	
(B)(C)	NEW ADOT TYPE "A" POLE (T.S. 4-1)	A	15'	-	1-VII	1-D	R10-3e(L)	INSTALL NEW	STA 201+52, 2' RT STA 201+13, 3' RT	

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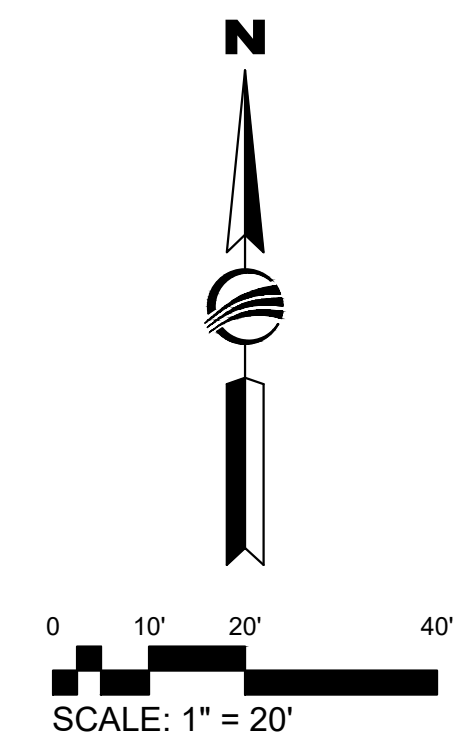
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LEGEND

- CENTERLINE
- RIGHT OF WAY
- NEW TRAFFIC SIGNAL CONDUIT
- FO--- NEW FIBER OPTIC CONDUIT
- IC--- NEW INTERCONNECT CONDUIT
- EXISTING TRAFFIC SIGNAL CONDUIT
- FO--- EXISTING FIBER OPTIC CONDUIT
- IC--- EXISTING INTERCONNECT CONDUIT
- NEW TRAFFIC SIGNAL "A" POLE
- NEW TRAFFIC SIGNAL POLE
- EXISTING TRAFFIC SIGNAL "A" POLE
- EXISTING TRAFFIC SIGNAL POLE
- ← TRAFFIC SIGNAL HEAD
- ← EXISTING TRAFFIC SIGNAL HEAD
- ▲ CIRCULAR RAPID FLASHING BEACONS
- METER PEDESTAL
- CONTROLLER CABINET
- NO. 5 PULL BOX
- NO. 7 PULL BOX
- NO. 7 PULL BOX WITH EXTENSION
- NO. 9 PULL BOX
- PEDESTRIAN SIGNAL HEAD
- ↓ PEDESTRIAN PUSH BUTTON
- CCTV CAMERA
- VIDEO DETECTION UNIT
- ← EMERGENCY VEHICLE PRE-EMPTION
- PS POINT OF ELECTRICAL SERVICE
- XX TRAFFIC SIGNAL EQUIPMENT IDENTIFIER (SEE POLE SCHEDULE)
- XX CONDUIT RUN NUMBER (SEE CONDUCTOR SCHEDULE)
- XX PULL BOX IDENTIFIER
- XX CONSTRUCTION NOTE IDENTIFIER



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ARIZONA 811
Arizona 811 Service, Inc.
P.O. Box 1000
Flagstaff, AZ 86001
(909) 265-1100

JOB NO. 19-1140	1ST SUBMITTAL: 03/15/2021	2ND SUBMITTAL:	3RD SUBMITTAL:	DESIGN: S. PEÑA	DRAWN: S. PEÑA	CHECKED: J. YENERICH
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MILTON & BEULAH TRAFFIC SIGNALS
FLAGSTAFF, ARIZONA

Traffic Signal Plan
Beulah Blvd Pedestrian Signal

PRELIMINARY
90%
Review

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SHEET
TS-11
06 OF 06