PLAN NOTES:

- EXIST R/W

101+00

EXIST R/W

φ4&5 ₩

(0) 4&5 **√√ D**

89

Hunt Highway

CONNECT TRAFFIC SIGNAL SERVICE TO RELOCATED OH ELECTRIC

 $\langle C \rangle \langle B \rangle$

- 1. All material and installation shall conform to the 2021 Standard Specifications and ADOT's most current Traffic Signals and Lighting Standard Drawings.
- 2. 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.
- 3. For electrical service, the Contractor shall coordinate with APS. All applications fees and connections fees will be paid by the Contractor to APS after review by the Engineer. The Contractor will then submit the paid invoices to the Resident Engineer for reimbursement through item number 9240015, Provide Electrical Services.
- 4. See striping plans to verify actual lane dimensions and stop bar locations.
- 5. All back plates for signal faces shall be louvered.
- 6. All pull boxes shall be left in a clean condition, free of dirt and debris upon completion of the work.
- 7. Extend conduits to new pull box locations as shown on the plans.
- 8. The Contractor shall field verify all pole locations with the Engineer, prior to any constructions activity.
- 9. 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.

LEGEND

METER PEDESTAL CONTROLLER CABINET w/ BBS NO. 5 PULLBOX

> NO. 7 PULLBOX WITH EXTENSION NO. 7 PULLBOX

TRAFFIC SIGNAL HEAD VIDEO DETECTION CAMERA EMERGENCY VEHICLE DETECTOR

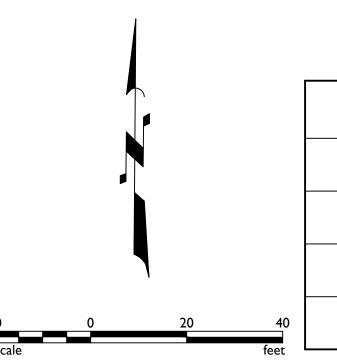
PEDESTRIAN PUSH BUTTON PEDESTRIAN SIGNAL HEAD

LUMINAIRES

AND PHASE NUMBER TRAFFIC SIGNAL

CONDUIT RUN NUMBER (SEE CONDUCTOR SCHEDULE)

PHASING SCHEMATIC



NO.	TYPE	LOCATION (Hunt Hwy Sta)
1	NO. 7 W/ EXTENSION	Sta 99+17, 74' Rt
2	NO. 7	Sta 100+85, 60' Rt
3	NO. 7	Sta 100+84, 55' Lt
4	NO. 7	Sta 99+76, 55' Lt

Sheet Attaway Signal ∞ < Highway

0 N Alma School Κυσω e 120 a, AZ 85201 80.503.2250 | F:480.503.2258 / w . e p s g r o u p i n c . c o m

ST CO

VIDEO DETECTION ZONE (SEE POLE SCHEDULE)

NEW PULLBOX (SEE PULLBOX SCHEDULE)

Revisions:

Not For Construction

Recording Job No.

21-1365.03 TS01

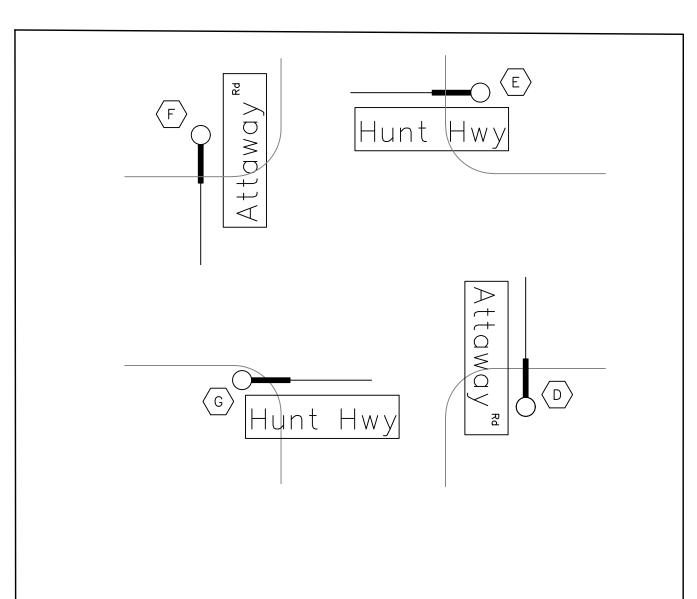
Sheet No.

			CAR	INF	T 4	ND	PO	N E SC	CHEDULE	
			CABINETS						REMARKS	LOCATION
	CABINET	TYPE		CONT	ROLLER		AUX	CONTROL	INLIMATING	LOCATION
A		METER PEDESTA					PEC	H & INSTALL AND LTG INTACTOR	ELECTRICAL SERVICE ADDRESS: CONTRACTOR TO VERIFY WITH TOWN OF FLORENCE. SEE NOTE 13.	Sta 98+72, 65' Rt
(B) (C)		TS2, TYP CABINET MAINT PA BBS CABINE	W/ AD/ NE CAE	CONT MA EAGI INET WI	SHELFMO FROLLER LE MOBO TH ALPH LOSURE	OTREX	TS2, TY	PE I CABINET	SEE NOTE 12.	Sta 98+60, 65' Rt
	POLES		Ì	MAST	ARMS	SIGN	IALS	PED P.B.	Keep these for RT Overlap	LOCATION
NO.			TYPE	SIG.	LUM.	MTG.	FACE	SIGN	Troop those for IVI Gvoriap	LOCATION
D	φ4&5 VDC 13.5' 13' φ4 φ4 φ4 φ4&5 φ4	φ7 EVD	К	55'	-	3-II 1-VII	1-F 2-Q (RT) 2- G (LT)	-	TOP OF POLE FOUNDATION ELEVATION: XX.XX' FURNISH AND INSTALL VIDEO DETECTION CAMERA, STREET NAME SIGN AND EVD (SEE POLE SCHEDULE NOTE 1)	Sta 100+91.65, 55.01' Rt
E	\$\frac{18'}{\phi^2}\$	⇒5 — EVD	RL	50'	20'	2-II 1-V	1-R (LT) 2-F	_	TOP OF POLE FOUNDATION ELEVATION: XX.XX' FURNISH AND INSTALL VIDEO DETECTION CAMERA, STREET NAME SIGN AND EVD INSTALL LUMINAIRE. (SEE POLE SCHEDULE NOTES 1,2&3).	Sta 100+64.66, 64.00' Lt
F	φ8 φ5 VDC φ8 φ8 φ8	EVD	RL	50'	20'	3-II 1-VII	3-F 1- G (LT) 1-R (LT)	_	TOP OF POLE FOUNDATION ELEVATION: XX.XX' FURNISH AND INSTALL VIDEO DETECTION CAMERA, STREET NAME SIGN AND EVD INSTALL LUMINAIRE. (SEE POLE SCHEDULE NOTES 1,2&3).	Sta 99+41.62, 50.99' Lt
G	φ6 φ3 φ6 φ6	♣ ♠ EVD	RL	55'	20'	2-II 1-VII	2-F 2- G (LT)	_	TOP OF POLE FOUNDATION ELEVATION: XX.XX' FURNISH AND INSTALL VIDEO DETECTION CAMERA, STREET NAME SIGN AND EVD INSTALL LUMINAIRE. (SEE POLE SCHEDULE NOTES 1,2&3).	Sta 99+61.60, 37.48' Rt
E	♦ 7		G	_	20'	1-V	1– G (LT)	_	TOP OF POLE FOUNDATION ELEVATION: XX.XX' INSTALL LUMINAIRE. (SEE POLE SCHEDULE NOTES 1&2).	Sta 100+92.40, 53.50' Lt

CONDUCTOR SCHEDULE

-	CONDUIT RUN NUME	BER	1	2	3	4	5	6	7	8	9	10	11	12	13		15	16	17	18	
AWG	CONDUIT SIZE IN IN CIRCUIT PHAS		2.5	2	2	3	3	3 N	3 UME	3 2FP	3 0F	3	3	3	3	3	3	3	3	3	3
AWG	IMSA CABLE NO. OF CABLE NO. OF CONE	.ES					2 20	IN	2 20		2 20	VVIIN	LS		2 20						
	SIGNAL						4		4		3				20			1	3		
	SIGNAL Ø4 & 07	7					5						1		5					4	1
	SIGNAL Ø6 & 01						4								1	3	3			1	_
-	SIGNAL Ø8 & 03	5					5		4							1	1	4			
	PED SIGNAL Ø2 PED SIGNAL Ø4																				
	PED SIGNAL 04 PED SIGNAL 06																				
MSA	PED SIGNAL Ø8																				
*	PED BUTTON Ø2																				
	PED BUTTON Ø4																				
	PED BUTTON Ø6																				
	PED BUTTON Ø8																				_
-	PED BUTTON COMMON																				
	SIGNAL COMMON																				
	SPARES						8		8		8		8		8						
	VIDEO DET. Ø2					1		1		1									1		
М	VIDEO DET. Ø4					1								1						1	_
'*'	VIDEO DET. Ø6					1		1								1	1	1			_
-	VIDEO DET. Ø8					l		- 1													
**	PRE EMP CABLE					4		2		1				1		1	1	1	1	1	
**	CONFIRMATION LIGHT CAN	BLE				4		2		1				1		1	1	1	1	1	
	LIGHTING 120V (RED)				1				1		1					1	1	1	1		<u> </u>
#10	LIGHTING COMMÒN (WHITE				1				1		1					1	1	1	1		1
	SIGNAL COMMON	•					1		1		1		1		1	1	1	1	1	1	1
#8	INSULATED BOND (GREEN) 👄	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
#6	SERVICE 120/240 VOLTS		\Diamond	2																	
\Rightarrow	·																				

- * ALL IMSA CABLE SHALL BE #14 AWG IMSA 19-1.
- CONDUCTORS BY UTILITY COMPANY. CONDUIT BY CONTRACTOR. CONDUIT PER UTILITY COMPANY REQUIREMENTS.
- ** FURNISH, INSTALL & TERMINATE DETECTOR CABLE OR APPROVED EQUAL, UNSPLICED, FROM CONTROLLER CABINET TO NEW EVP SENSORS ON SIGNAL MAST ARM, AND 2-CONDUCTOR #18 AWG STRANDED CONDUCTORS FOR CONFIRMATION LIGHT
- CRIMP CONNECTION SHALL BE USED FOR SIGNAL COMMON AND BOND CONNECTIONS.
- M CABLE PER MANUFACTURER



STREET NAME SIGN DETAIL N.T.S.

Schedule

onductor

Schedule

Revisions:

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

ARIZONA 81

Arizona Bloo State, Inc.

Dial 8-1-1 or 1-800-STAKE-IT (782-53 In Maricopa County: (602)263-110

Drawn by: RW

Preliminary

Not For Construction Or Recording

21-1365.03

Sheet No.

Road

ttaway

Sign layout and format to be per ADOT MOAS. See D3-1 for overhead street name signs.

(See ADOT Standard Detail S—9 for mounting).

IMSA CAE	BLE 19-1,	#14 AWG	HI-TEMP, 2	20 CONDUCTOR				
CABLE #1	CABLE #2	CONDUCTO BASIC COLOR	OR COLOR TRACER STRIPE	SIGNAL INTERVAL				
	ф5	RED	WHITE	RED				
ф1	ÖR	BLACK	WHITE	YELLOW				
	OVERLAP A	GREEN	WHITE	GREEN				
	ф6	RED	_	RED				
φ2	ÖR	ORANGE	_	YELLOW				
	OVERLAP B	GREEN	_	GREEN				
	φ7	BLACK	RED	RED				
ф3	ÖR	ORANGE	RED	YELLOW				
	OVERLAP C	BLUE	RED	GREEN				
	ф8	RED	BLACK	RED				
φ4	ÖR OVERLAP D	ORANGE	BLACK	YELLOW				
		GREEN	BLACK	GREEN				
		BLUE	_	WALK				
φ2 PED.	φ6 PED.	BLACK	_	DON'T WALK				
		WHITE	BLACK	PUSH BUTTON				
		BLUE	WHITE	WALK				
φ4 PED.	φ8 PED.	RED	GREEN	DON'T WALK				
		WHITE	RED	PUSH BUTTON				
ALL 0'S	ALL 0'S	WHITE	_	P.B. COMMON				
		BLUE	BLACK	SPARE				

CABLE #2 SHALL BE MARKED WITH 2 INDIVIDUAL 3/8 INCH WIDE STAINLESS STEEL BANDS. SIDE BY SIDE WITH A 1/2 INCH GAP BETWEEN BANDS, AT EACH PULL BOX LOCATION INDIVIDUAL CONDUCTORS IN THE CABLE SHALL BE TAGGED AS TO ASSIGNED PHASE.

20 CONDUCTOR IMSA COLOR CODE

IMSA CA	ABLE 19-1,	#14 AWG	HI-TEMP, 2	O CONDUCTOR
CABLE #1	CABLE #2	CONDUCTO BASIC COLOR	OR COLOR TRACER STRIPE	SIGNAL INTERVAL
ф1	OR ¢5	RED BLACK GREEN	WHITE WHITE WHITE	RED YELLOW GREEN
ф2	OR ¢6	RED ORANGE GREEN	_ _ _	RED YELLOW GREEN
ф3	OR ¢7	BLACK ORANGE BLUE	RED RED RED	RED YELLOW GREEN
ф4	OR	RED ORANGE GREEN	BLACK BLACK BLACK	RED YELLOW GREEN
φ2 PED.	OR ¢6 PED.	BLUE BLACK WHITE	– – BLACK	WALK DON'T WALK PUSH BUTTON
φ4 PED.	OR ¢8 PED.	BLUE RED WHITE	WHITE GREEN RED	WALK DON'T WALK PUSH BUTTON
ALL O'S	ALL 0'S	WHITE BLUE	– BLACK	P.B. COMMON SPARE

CABLE #2 SHALL BE MARKED WITH 2 INDIVIDUAL 3/8 INCH WIDE STAINLESS STEEL BANDS. SIDE BY SIDE WITH A 1/2 INCH GAP BETWEEN BANDS, AT EACH PULL BOX LOCATION INDIVIDUAL CONDUCTORS IN THE CABLE SHALL BE TAGGED AS TO ASSIGNED PHASE.

> 20 CONDUCTOR IMSA COLOR CODE (Used when one cable is dedicated to each pole)

	IMSA	A CABLE 19-1,	#14 AWG, 4	CONDUCTOF	R & 7 CONDUC	TOR						
	HEADS & FAR LEFT	SIGNAL INBOARD &	HEADS SIDEMOUNT	PEDESTRI	AN HEADS	PUSH	BUTTON					
7 CONDUC	TOR CABLE	4 CONDUC	TOR CABLE	4 CONDUC	TOR CABLE	4 CONDUCTOR CABLE						
BASIC	SIGNAL	BASIC	SIGNAL	BASIC	SIGNAL	BASIC	PUSH BUTTON					
COLOR	INTERVAL	COLOR	INTERVAL	COLOR	INTERVAL	COLOR						
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.		THE CABLE SHALL BE TAGGED AS TO ASSIGNED PHASE.									
WHT/BLK TR	VEH. COM.	TO ASSIGNED PE										

POLE SCHEDULE NOTES:

- 1. Emergency Vehicle Preemption shall be Strobecom II 4090 Series.
- 2. Luminaires to be (LED Type, 3000K, 120V, 21,000 lumen) horizontal mount.
- 3. Top of pole foundation to be flush with adjacent sidewalk. Depth of pole foundation to be increased or ground fill to be added, as directed by the Engineer, to provide a minimum foundation depth and capable of structural integrity per ADOT Standard Drawing
- 4. 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.
- 5. The Contractor shall field verify all pole locations with the Engineer prior to any construction activity.
- 6. All exposed conduit and fittings installed above ground shall be rigid metal per the Standard Specifications.
- 7. The Contractor shall contact Patrick Miller at (520) 251—0156 before drilling poles for push button assemblies and traffic signal mounting assemblies, for exact location.
- 8. The Contractor shall contact Patrick Miller at (520) 251—0156 to schedule the wiring of the signal cabinet.
- 9. The Contractor shall contact Patrick Miller at (520) 251—0156 to schedule the signal turn—on. The Town of Florence electrical inspector shall schedule the signal turn—on with the Town Engineer, a minimum of 10 days in advance.
- 10. All striping shall be installed prior to the day of turn—on.
- 11. The control cabinet shall be delivered to 444 N. Warner Street, Florence, AZ 85132 for testing per Section 734—2.01 (E) & (F) of the Standard Specifications.
- 12. NEMA Eagle Mobotrex cabinets measuring 56' H x 44" W x 26" D, mounted on an 18" base with accessible front and rear doors. The Alpha BBS Enclosure measuring 48' H x 22" W x 16.5" D, equipped with slide—out battery drawers and a generator plug connection, is to be mountd on the right side of the cabinet. System also includes an Alpha FXM—HP1100 inverter with a remote battery management system and four 195XTV batteries.
- 13. Meter pedestal is a single—phase 3—wire system, with a maximum supply of 100 amps and a supply voltage of 120/240V.