F.H.W.A. REGION	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS	RECORD DWG
9	AZ	60640566	1	5	

JJP/DB	JJP/DB	DWB
DESIGNED	DRAWN	CHECKED
DATE: 02/2016	DATE: 02/2016	DATE: 02/2016

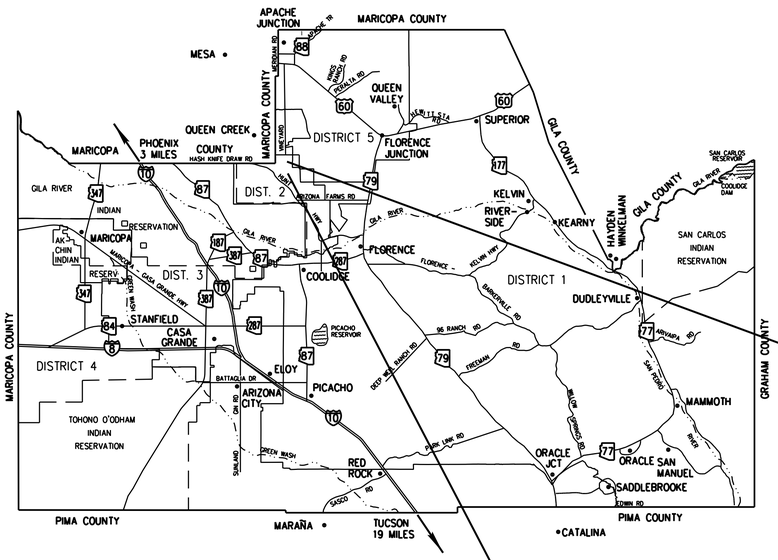
Registered Professional Engineer (Civil) CERTIFICATE NO. 16229 DAVID W. BRUGGEMAN Date Signed 02/11/2016 ARIZONA, U.S.A. EXPIRES 3/31/17

3610 N. 44th Street
Suite 100
Phoenix, AZ 85018
602/955-7206
LEE ENGINEERING

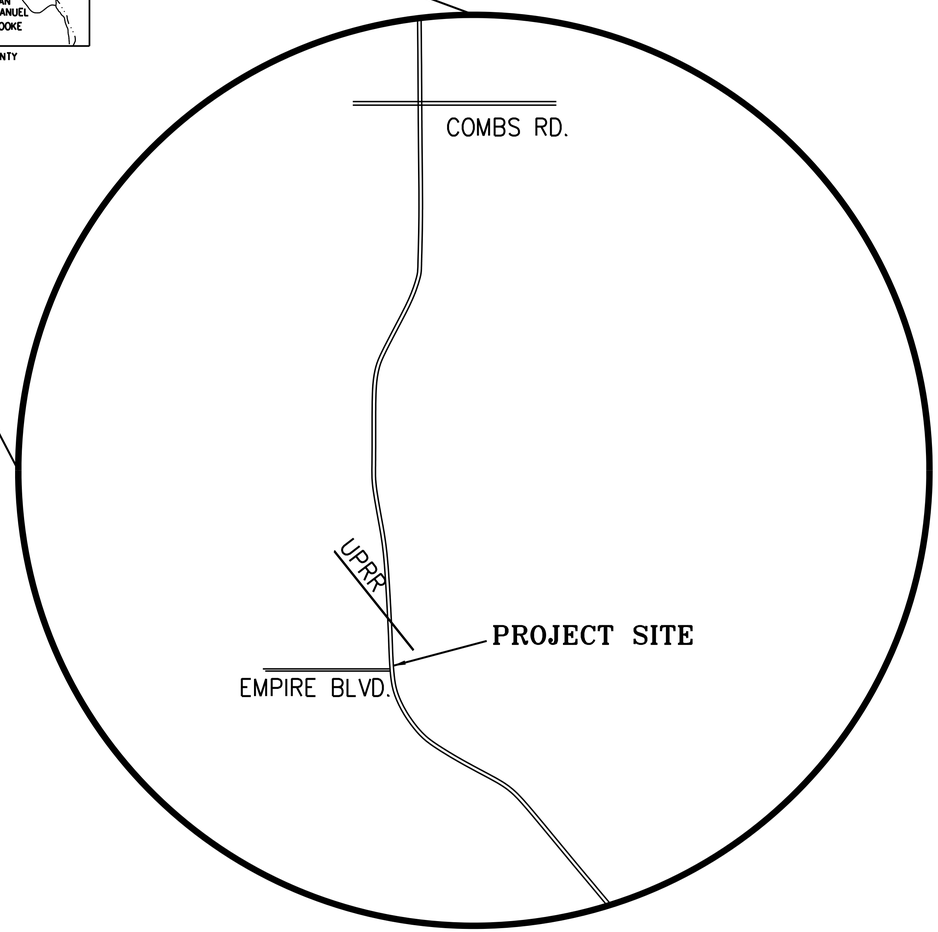
GANTZEL RD. AT EMPIRE BLVD.

TRAFFIC SIGNAL INSTALLATION

60640566



PINAL COUNTY



PINAL • COUNTY

wide open opportunity

PINAL COUNTY BOARD OF SUPERVISORS

DISTRICT ONE – PETE RIOS
DISTRICT TWO – CHERYL CHASE
DISTRICT THREE – STEPHEN MILLER
DISTRICT FOUR – ANTHONY SMITH
DISTRICT FIVE – TODD HOUSE

MANAGEMENT

COUNTY MANAGER – GREG STANLEY
COUNTY ENGINEER – SCOTT BENDER, P.E., C.F.M.

PROJECT ENGINEER

DAVE BRUGGEMAN, PE, PTOE
LEE ENGINEERING
3610 N 44TH STREET STE 100
PHOENIX, AZ. 85018
(602) 955-7206

INDEX TO SHEETS

DRAWING NO	DESCRIPTION	SHEET NO
1	COVER SHEET	1
TS-01	SIGNAL SHEET	2
TS-02	POLE SCHEDULE	3
TS-03	CONDUCTOR SCHEDULE	4
TS-05	STRIPING PLAN	5

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

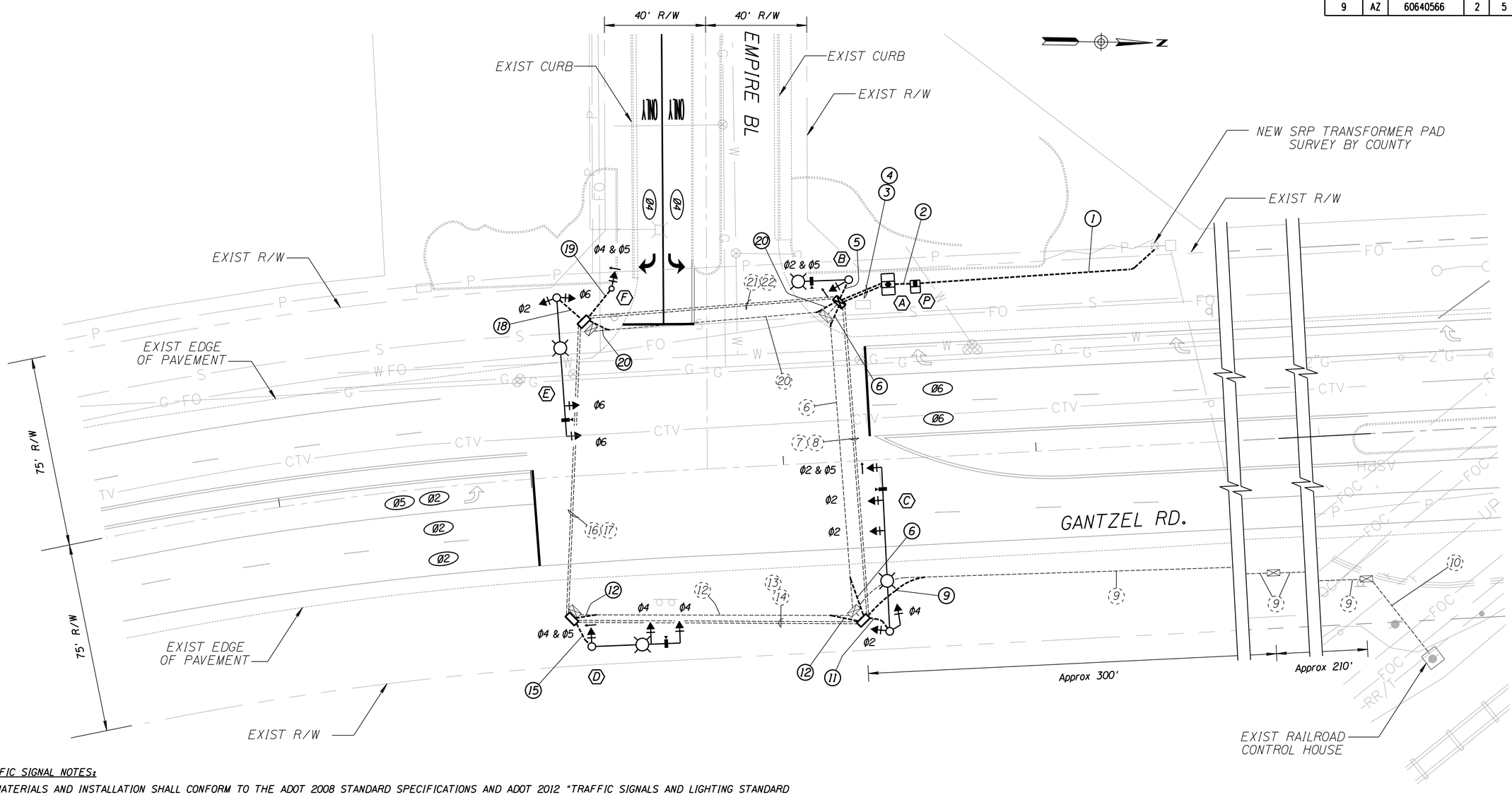
REGISTERED ENGINEER / LAND SURVEYOR _____ DATE _____

REGISTRATION NUMBER _____

APPROVED _____ COUNTY ENGINEER _____ DATE

PROJECT_NAME_LOC_&_NO

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DWG
9	AZ	60640566	2	5	



TRAFFIC SIGNAL NOTES:

1. ALL MATERIALS AND INSTALLATION SHALL CONFORM TO THE ADOT 2008 STANDARD SPECIFICATIONS AND ADOT 2012 "TRAFFIC SIGNALS AND LIGHTING STANDARD DRAWINGS", UNLESS AS NOTED OTHERWISE IN THESE PLANS AND IN THE SPECIAL PROVISIONS.

2. THE LOCATIONS OF UTILITIES SHOWN ON THE PLANS IS APPROXIMATE. ALL INVOLVED UTILITIES MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE, PER SECTION 730-6 OF THE ADOT STANDARD SPECIFICATIONS, FOR CONTACTING ALL UTILITIES FOR EXACT LOCATION PRIOR TO ANY CONSTRUCTION ACTIVITY. ALL EXCAVATIONS WITHIN 5 FEET OF ANY UTILITY SHALL BE BY AN APPROVED NON-DESTRUCTIVE METHOD, INCLUDING POTHOLING THE UTILITY TO DETERMINE EXACT LOCATION AND DEPTH, AT NO ADDITIONAL COST TO THE PROJECT.

3. SERVICE REQUIREMENTS SHALL BE VERIFIED BY CONTACTING JEFF BLAND AT SRP (602) 236-6346 A MINIMUM OF 7 WORKING DAYS BEFORE SERVICE IS REQUIRED. NEW SERVICE ADRESS 35300 N. GANTZEL RD., SAN TAN VALLEY, AZ 85143. ALL APPLICATION FEES AND CONNECTION FEES WILL BE PAID BY THE CONTRACTOR TO SRP. AFTER REVIEW BY THE ENGINEER. THE CONTRACTOR WILL THEN SUBMIT THE PAID INVOICES TO THE ENGINNER FOR REIMBURSEMENT FOR "ESTABLISH ELECTRICAL SERVICE" BID ITEM. PINAL COUNTY WILL PROVIDE SURVEY FOR SRP WORK.

4. EXISTING INTERCONNECT PULL BOXES ON EACH CORNER SHALL BE REMOVED, WITH COUNDUIT REROUTED TO REMAINING PULL BOX LOCATION. REMAINING PULL BOX SHALL BE REPLACED WITH NEW PULL BOX, WITH NEW CLEAN STONE SUMP. ALL NEW PULL BOXES SHALL BE POLYMER CONCRETE. PULL BOXES SHALL BE LEFT IN A CLEAN CONDITION, FREE OF DIRT AND DEBRIS UPON COMPLETION OF THE WORK.

5. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL CONTACT THE TRAFFIC SIGNAL TECH, ORLANDO GONZALEZ AT (520) 705-1268 OR ROBERT MARTIENEZ AT (520) 483-8099 A MINIMUM OF THREE WORKING DAYS IN ADVANCE. THE CONTRACTOR SHALL FIELD VERIFY ALL POLE & CABINET LOCATIONS, ORIENTATIONS AND ELEVATIONS WITH TRAFFIC SIGNAL TECH PRIOR TO ANY CONSTRUCTION ACTIVITY.

6. NO NEW RIGHT-OF-WAY OR EASEMENTS ARE REQUIRED. ALL WORK SHALL BE WITHIN EXISTING PUBLIC RIGHT-OF-WAY.

7. ILLUMINATED STREET NAME SIGN (ISNS) SHALL BE PER MESA STANDARD DETAILS M-95.07 - M95.09

8. CONTRACTOR SHALL BLOW OUT AND CLEAN EXISTING CONDUITS PRIOR TO PULLING ANY CONDUCTORS.

	NAME	DATE
DESIGN	JJP/DB	02/16
DRAWN	JJP/DB	02/16
CHECKED	DWB	02/16

3610 N. 44th Street
Suite 100
Phoenix, AZ 85018
602/955-7206
LEE ENGINEERING

TRAFFIC SIGNAL PLAN
GANTZEL RD. AT EMPIRE BLVD.

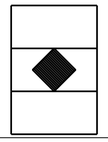
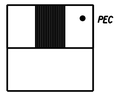
LOCATION
TRAFFIC SIGNAL GANTZEL RD. AT EMPIRE BLVD.

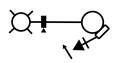
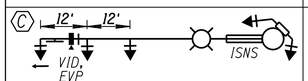
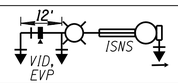
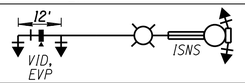
Registered Professional Engineer (Civil)
CERTIFICATE NO. 16229
DAVID W. BRUGGEMAN
Date Signed 02/10/16
ARIZONA, U.S.A.
EXPIRES 3/31/17

DRAWING NO: TS-01

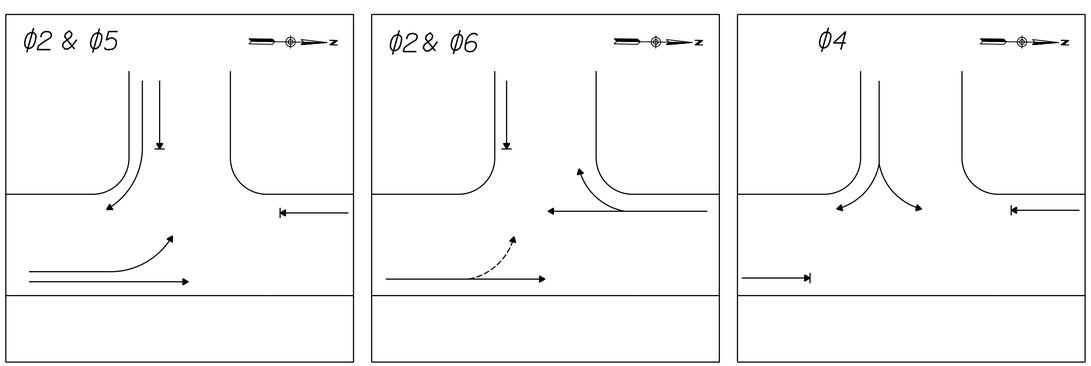
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DWG
9	AZ	60640566	3	5	

POLE SCHEDULE

TRAFFIC SIGNAL CONTROLLER				AUX. CONTROL	LOCATION
CABINET	TYPE	CONTROLLER	REMARKS		
(A) 	2-DOOR TYPE IV (P) W/ELEVATOR BASE & MAINT PADS	EAGLE m60	T.S. 2-4 T.S. 3-9 T.S. 3-10	CLARY UPS SP1250LX-N W/41 AH BATTERIES D PANEL FOR PREEMPTION	TO BE FIELD LOCATED AS SHOWN PER NOTE 3
(P) 	METER PEDESTAL W/MAINT PAD	MYERS MEUG16-TS		FURNISH & INSTALL PEC AND LTG CONTACTOR	TO BE FIELD LOCATED AS SHOWN PER NOTE 3

POLE	TYPE	MAST ARM		SIGNALS		IISNS	REMARKS	LOCATION
		SIG.	LUM.	MTG.	FACE			
(B) 	G		20'	V	Q		LED LUMINAIRE & VIDEO DETECTION	TO BE FIELD LOCATED AS SHOWN PER NOTE 3
(C) 	W	65'	20'	II 2-II VII	Q 2-F 2-F	IISNS	LED LUMINAIRE, PREMPTION SENSOR, & VIDEO DETECTION	TO BE FIELD LOCATED AS SHOWN PER NOTE 3
(D) 	Q	35'	20'	2-II V	2-F Q (Rt)	IISNS	LED LUMINAIRE, PREMPTION SENSOR, & VIDEO DETECTION	TO BE FIELD LOCATED AS SHOWN PER NOTE 3
(E) 	Q	55'	20'	2-II VII	2-F 2-F	IISNS	LED LUMINAIRE, PREMPTION SENSOR, & VIDEO DETECTION	TO BE FIELD LOCATED AS SHOWN PER NOTE 3
(F)	A 10'			IV	Q (Rt)			TO BE FIELD LOCATED AS SHOWN PER NOTE 3

PHASE MOVEMENTS



NOTES:

1. THE CONTROL CABINET SHALL BE A 2-DOOR TS-2 TYPE 1 CONFIGURATION, WIRED AND LABELED WITH THE SAME PHASE NUMBER DESIGNATIONS, FOR INITIAL AND FUTURE PHASES, AS SHOWN IN THE PHASE MOVEMENT DIAGRAM ON THE PLANS.
2. THE CONTROLLER CABINET SHALL BE WIRED IN THE FIELD BY THE CONTRACTOR, IN THE PRESENCE OF THE TRAFFIC SIGNAL TECHNICIAN. THE CABINET SHALL BE FLASHED OUT FOR FUNCTIONALITY, WITH ALL VEHICLE AND PREEMPTION DETECTION CONNECTED, TESTED AND FULLY OPERATIONAL PRIOR TO SIGNAL ACTIVATION. ACTIVATION SHALL BE COORDINATED AND SCHEDULED WITH THE TRAFFIC SIGNAL TECHNICIAN.
3. POLE, CABINET, & PULL BOX LOCATIONS, ELEVATIONS & ORIENTATIONS SHALL BE FIELD VERIFIED WITH THE TRAFFIC SIGNAL TECHNICIAN PRIOR TO EXCAVATION. THE TRAFFIC SIGNAL TECHNICIAN MAY MAKE FIELD ADJUSTMENTS TO LOCATIONS OF TRAFFIC SIGNAL FACILITIES, IN RESPONSE TO FIELD CONDITIONS, TO COMPLY WITH CLEAR ZONE, AND TO AVOID UTILITIES. THE DESIGNER, DAVE BRUGGEMAN (602) 618-0406 SHALL CONFIRM POLE LOCATIONS AFTER STAKING.
4. ALL NEW POLE LOCATIONS SHALL BE INSPECTED BY THE TRAFFIC SIGNAL INSPECTOR PRIOR TO PLACEMENT OF CONCRETE. PLACEMENT OF ALL STEEL POLES SHALL PROVIDE 10 FT MINIMUM CLEARANCE FROM STEEL POLE/ARMS/FIXTURES AND ALL SIGNAL FEATURES TO ANY ELECTRICAL POWER LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THE HEIGHT OF THE SIGNAL MAST ARM IS A NOMINAL 21' ABOVE PAVEMENT.
5. ALL TRAFFIC SIGNAL POLES SHALL BE TAPERED GALVANIZED STEEL.
6. ALL SIGNAL HEADS SHALL BE LED AND HAVE FIVE INCH LOUVERED BACKPLATES.
7. ELECTRICAL SERVICE SHALL BE FULLY METERED FOR SIGNALS AND LIGHTING. COORDINATION WITH AND ANY MISCELLANEOUS COSTS FROM UTILITY COMPANY ARE COVERED UNDER "PROVIDE ELECTRICAL SERVICE".
8. ILLUMINATED STREET NAME SIGNS TO BE MOUNTED ON SIGNAL POLES, AS INDICATED ON THE PLANS. ALL SIGNS SHALL BE IN PLACE PRIOR TO TURN-ON OF THE NEW SIGNAL.
9. ALL VIDEO DETECTION AND EMERGENCY VEHICLE PRE-EMPTION SHALL BE FUNCTIONAL AT TURN-ON. VIDEO DETECTION CAMERAS SHALL BE ATTACHED TO 6-FOOT PIPE RISERS ATTACHED TO THE SIGNAL MAST ARMS HALF WAY BETWEEN THE END OF ARM SIGNAL AND MID-ARM SIGNAL, EXCEPT ON POLE B. MOUNT EVP SENSOR ON SIGNAL MAST ARM AT LOCATION AS DIRECTED BY THE TRAFFIC SIGNAL TECHNICIAN. PRE-EMPTION AND VIDEO DETECTION CABLING SHALL RUN UNSPLICED FROM SENSOR/CAMERA TO THE CONTROLLER CABINET.
10. TERMINAL COMPARTMENTS SHALL BE ASSEMBLED IN THE MOUNTING BRACKETS AS SHOWN IN THE STANDARD DRAWINGS. THE TERMINAL COMPARTMENT SHALL BE MANUFACTURED OF BRONZE. PIPE NIPPLES MAY REQUIRE ADDITIONAL LENGTH TO ACHIEVE DESIRED SIGNAL HEAD AIMING, AT NO ADDITIONAL COST, WITHOUT CONFLICTING WITH POLE OR MAST ARM.
11. INSTALL 30-AMP SINGLE-POLE DISCONNECT FOR SIGNALS AND A 20-AMP DISCONNECT FOR LIGHTING.
12. THE CONTRACTOR SHALL CONTACT THE TRAFFIC SIGNAL TECHNICIAN FOR REVIEW AND APPROVAL BEFORE DRILLING POLES FOR SIGNAL MOUNTINGS.
13. THE CONTRACTOR SHALL HAVE AT LEAST ONE IMSA LEVEL ONE AND ONE IMSA LEVEL TWO CERTIFIED TRAFFIC SIGNAL TECHNICIANS ON SITE DURING ALL PHASES OF THE TRAFFIC SIGNAL WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE VERIFICATION OF CERTIFICATION. IF A JOB SITE INSPECTION SHOWS NO CERTIFIED TECHNICIANS ON SITE, THE TRAFFIC SIGNAL WORK WILL BE SUSPENDED.
14. ALL LIGHTING SHALL BE INSTALLED WITH LIGHTING MAST ARM PERPENDICULAR TO THE ROADWAY OVER WHICH THEY ARE INTENDED TO ILLUMINATE. ALL LUMINAIRES SHALL BE LED, 120 VOLT, WITHOUT INDIVIDUAL PHOTOCELLS.
15. CONTRACTOR SHALL PERFORM A GROUND-RESISTANCE TEST FOR EACH INSTALLED GROUND ROD, AND EACH POLE FOUNDATION GROUNDING COIL, IN ACCORDANCE WITH SUBSECTION 732-3.03. RESULTS SHALL BE DOCUMENTED IN WRITING AND SUBMITTED TO THE ENGINEER.
16. METER PEDESTAL SHALL BE FURNISHED & INSTALLED WITH PHOTOCELL AND LIGHTING CONTACTOR. INTERSECTION LIGHTING TO BE CONTROLLED FROM THE METER PEDESTAL.
17. CONTRACTOR TO FURNISH AND INSTALL ONLY COUNTY-APPROVED PRODUCTS:
    - EDI SSM-12LEIP CONFLICT MONITOR
    - PDC SSF-86-3 SOLID STATE FLASHER
    - PDC SSS-87 LOAD SWITCH
    - EDI PS-175 RACK POWER SUPPLY
    - OPTICOM 138 DETECTOR CABLE
    - OPTICOM 722 DETECTOR
    - OPTICOM 760 CARD RACK
    - OPTICOM 764 PHASE SELECTOR
    - OPTICOM 575 CONFIRMATION LIGHT ASSEMBLY
    - ITERIS RADAR VANTAGE VECTOR VIDEO DETECTION SYSTEM, W/ 10" MONITOR
    - CLARY UPS SP1250LX-N, WITH SPD-302C, SP-19N, SP-19N1 AND OP72C BATTERIES
    - MYERS MEUG16-TS METERED ELECTRICAL SERVICE PEDESTAL, 100A, W/PEC AND LTG CONTACTOR
    - COOPER NAVION LED LUMINAIRE #NVN-AE-03-E-U-T3R-10K-4-AP

	NAME	DATE
DESIGN	JJP/DB	02/16
DRAWN	JJP/DB	02/16
CHECKED	DWB	02/16

3610 N. 44th Street
Suite 100
Phoenix, AZ 85018
602/955-7206
LEE ENGINEERING

POLE SCHEDULE

LOCATION

TRAFFIC SIGNAL GANTZEL RD. AT EMPIRE BLVD.

Registered Professional Engineer (Civil) CERTIFICATE NO. 16229 DAVID W. BRUGGEMAN Date Signed 02/12/16 ARIZONA, U.S.A. EXPIRES 3/31/17

DRAWING NO: TS-02

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DWG
9	AZ	60640566	4	5	

CONDUCTOR SCHEDULE

AWG	CIRCUIT	PHASE	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
			P		E		E		E		E				P	E	E			E	E				P	E	E						
	CONDUIT RUN NUMBER		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
	CONDUIT SIZE IN INCHES		2 1/2	2	3	3	3	4	3	3	4	4	3		4	3	3	3		3	3	3		3	4	3	3						
			NUMBER OF WIRES																														
IMSA *	IMSA CABLE	NO. OF CABLES			2		1		2				2	3		2		2	1	2		1	3	1		2							
		NO. OF CONDUCTORS			20		7		20				7	4		20		7	4	20		7	4	7		20							
	SIGNAL	Ø1 (Future)			2																	2				2							
	SIGNAL	Ø2			3		3		3				3	9									3			3							
	SIGNAL	Ø3 (Future)			2																												
	SIGNAL	Ø4			3				3				3			3		6	3					3		3							
	SIGNAL	Ø5			2		2		2				2																				
	SIGNAL	Ø6			3																	3	6			3							
	SIGNAL	Ø7 (Future)			2				2				2			2		2															
	SIGNAL	Ø8 (Future)			3																												
	SIGNAL	OL (Ø4 & Ø5)			2				2							2		2						2		2							
	PED. SIGNAL	Ø2 (Future)			2																												
	PED. SIGNAL	Ø4 (Future)			2																												
	PED. SIGNAL	Ø6 (Future)			2																												
	PED. SIGNAL	Ø8 (Future)			2																												
	PED. P.B.	Ø2 (Future)			1																												
	PED. P.B.	Ø4 (Future)			1																												
	PED. P.B.	Ø6 (Future)			1																												
	PED. P.B.	Ø8 (Future)			1																												
	PED. P.B.	COMMON (Future)			2																												
	SIGNAL	COMMON					1						2	3				2	1			1	3	1									
	SPARES						1		28				2			33		2		40		1		1		27							
#14	VIDEO DET.	Ø2,Ø5				1				1			1																				
	VIDEO DET.	Ø4				1				1								1															
	VIDEO DET.	Ø6				1																1					1						
	VIDEO DET.	FUT Ø8				1	1																										
**	PRE EMPT CABLE					3				2			1					1				1					1						
#10	LIGHTING 120V				2		2		2				2			2		2				2				2							
	ILLUMINATED STREET NAME SIGN				2		2		2				2			2		2				2				2							
#8	INSULATED BOND (GREEN)			1	1		1	1	1				1		1	1	1	1		1	1	1		1	1	1							
	SIGNAL COMMON (WHITE)			1					1							1										1							
#6	SERVICE 120 VOLT (BLACK)			1																													
	SERVICE 120 VOLT (WHITE)			1																													
	SERVICE	120/240 VOLTS	<>																														

E EXISTING EMPTY CONDUIT.

P PARTIALLY EXISTING EMPTY CONDUIT WITH NEW CONDUIT.

* TRAFFIC SIGNAL IMSA CABLE SHALL BE #14 AWG, IMSA 19-1, 4-CONDUCTOR AND 7-CONDUCTOR CABLE

<> CONDUCTORS BY SRP. SURVEY BY PINAL COUNTY. CONDUIT BY CONTRACTOR, PER SRP REQUIREMENTS.

** FURNISH, INSTALL & TERMINATE 4-CONDUCTOR, #20 AWG STRANDED CONDUCTORS, SHIELDED, CHROME VINYL JACKETED CABLE, UNSPLICED, FROM CONTROLLER CABINET TO NEW EVP SENSORS ON SIGNAL MAST ARM.

IMSA CABLE 19-1, #14 AWG, 20 CONDUCTOR

CABLE #1	CABLE #2	CONDUCTOR COLOR: BASIC COLOR	CONDUCTOR COLOR: TRACER STRIPE	SIGNAL INTERVAL
Ø1	Ø5 OR OVERLAP A	RED	WHITE	RED
		BLACK	WHITE	YELLOW
		GREEN	WHITE	GREEN
Ø2	Ø6 OR OVERLAP B	RED		RED
		ORANGE		YELLOW
		GREEN		GREEN
Ø3	Ø7 OR OVERLAP C	BLACK	RED	RED
		ORANGE	RED	YELLOW
		BLUE	RED	GREEN
Ø4	Ø8 OR OVERLAP D	RED	BLACK	RED
		ORANGE	BLACK	YELLOW
		GREEN	BLACK	GREEN
Ø2 PEDS.	Ø6 PEDS.	BLUE		WALK
		BLACK		DONT WALK
		WHITE	BLACK	PUSH BUTTON
Ø4 PEDS.	Ø8 PEDS.	BLUE	WHITE	WALK
		RED	GREEN	DONT WALK
		WHITE	RED	PUSH BUTTON
ALL Ø'S	ALL Ø'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 WRAPS, AT EACH PULL BOX LOCATION. INDIVIDUAL CONDUCTORS IN THE CABLE SHALL BE TAGGED AS TO ASSIGNED PHASE.

IMSA CABLE 19-1, #14 AWG, 4 CONDUCTOR & 7 CONDUCTOR

SIGNAL HEADS OUTBOARD & FAR LEFT — 7 CONDUCTOR CABLE

BASIC COLOR	SIGNAL INTERVAL
RED	RED
BLACK	YELLOW
GREEN	GREEN
ORANGE	YELLOW ARROW
BLUE	GREEN ARROW
WHITE	VEH. COM.
WHITE/BLK TR	VEH. COM.

SIGNAL HEADS INBOARD & SIDEMOUNT — 4 CONDUCTOR CABLE

BASIC COLOR	SIGNAL INTERVAL
RED	RED
BLACK	YELLOW
GREEN	GREEN
WHITE	VEH. COM.

PEDESTRIAN HEADS — 4 CONDUCTOR CABLE

BASIC COLOR	SIGNAL INTERVAL
RED	DON'T WALK
GREEN	WALK
WHITE	PED. COM.
BLACK	SPARE

PUSH BUTTON — 4 CONDUCTOR CABLE

BASIC COLOR	PUSH BUTTON STATION
RED	PUSH BUTTON
WHITE	P.B. COM.
GREEN	SPARE
BLACK	SPARE

THE CABLE SHALL BE TAGGED AS TO ASSIGNED PHASE.

	NAME	DATE
DESIGN	JJP/DB	02/16
DRAWN	JJP/DB	02/16
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3610 N. 44th Street
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Phoenix, AZ 85018
602/955-7206
LEE ENGINEERING

CONDUCTOR SCHEDULE

LOCATION

TRAFFIC SIGNAL GANTZEL RD. AT EMPIRE BLVD.

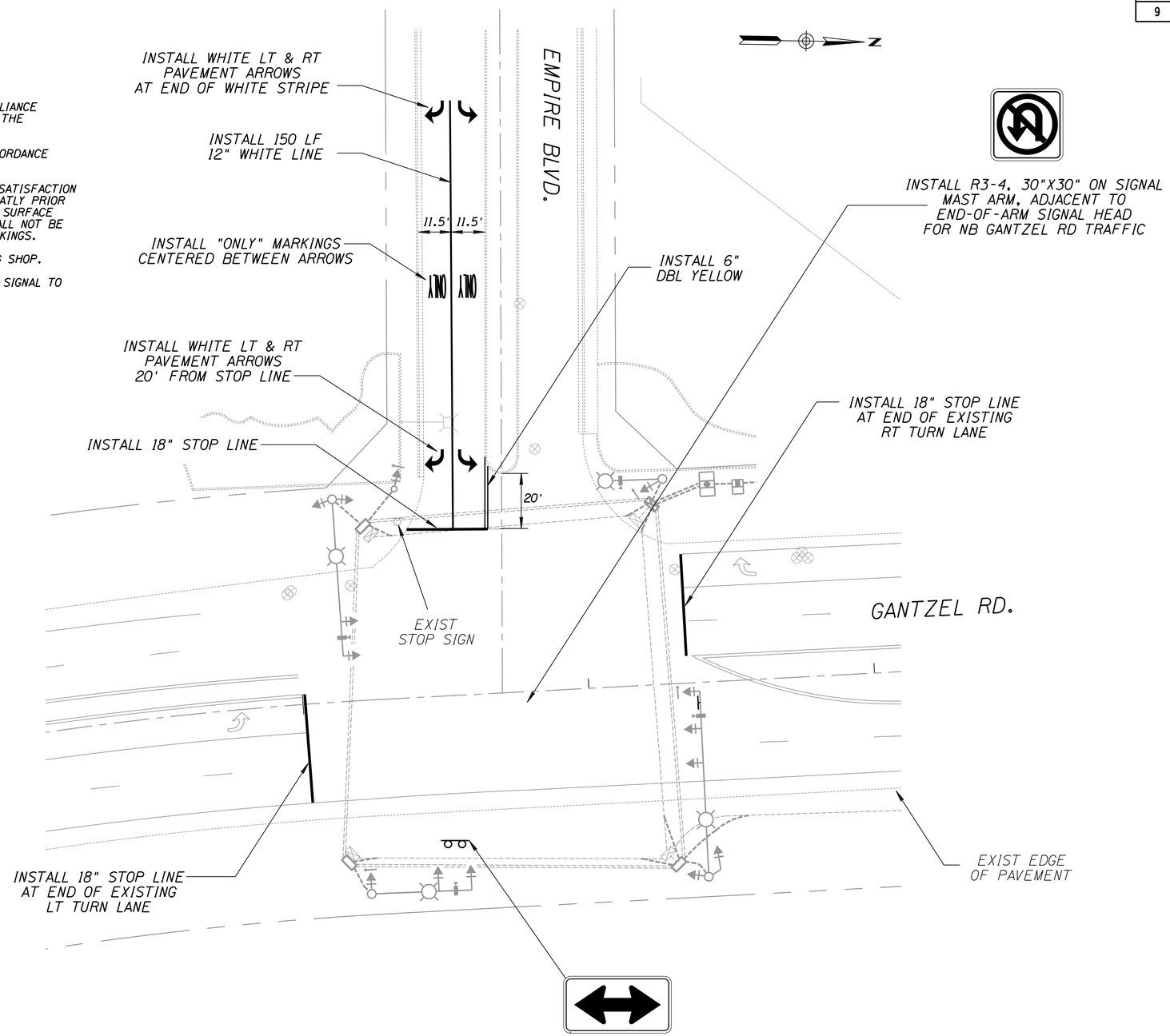
Registered Professional Engineer (Civil) CERTIFICATE NO. 16229 DAVID W. BRUGGEMAN Date Signed 02/10/16 ARIZONA, U.S.A. EXPIRES 3/31/17

DRAWING NO: TS-03

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DWG
9	AZ	60640566	5	5	

STRIPING NOTES:

1. ALL NEW THERMOPLASTIC PAVEMENT MARKING SHALL BE IN COMPLIANCE WITH THE ADOT SIGNING AND MARKING STANDARD DRAWINGS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. ALL STOP BARS SHALL BE WHITE 90 MIL THERMOPLASTIC IN ACCORDANCE WITH SECTION 704 OF THE ADOT STANDARD SPECIFICATIONS.
3. THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE ENGINEER, BY SWEEPING AND AIR JET BLOWING, IMMEDIATLY PRIOR TO THE PLACEMENT OF ALL PAVEMENT MARKINGS. THE ROADWAY SURFACE SHALL BE DRY AND THE AIR AND PAVEMENT TEMPERATURES SHALL NOT BE LESS THAN 60 DEGREES F FOR THE PLACEMENT PAVEMENT MARKINGS.
4. COORDINATE STRIPING WITH PINAL COUNTY SIGNING AND STRIPING SHOP.
5. REMOVE AND SALVAGE EXISTING STOP SIGN UPON ACTIVATION OF SIGNAL TO PINAL COUNTY, AS DIRECTED BY INSPECTOR.



	NAME	DATE
DESIGN	JJP/DB	02/16
DRAWN	JJP/DB	02/16
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3610 N. 44th Street
Suite 100
Phoenix, AZ 85018
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LEE ENGINEERING

STRIPING PLAN

GANTZEL RD. AT EMPIRE BLVD.

LOCATION

TRAFFIC SIGNAL GANTZEL RD. AT EMPIRE BLVD.

Registered Professional Engineer (Civil) CERTIFICATE NO. 16229 DAVID W. BRUGGEMAN Date Signed 02/12/2016 ARIZONA, U.S.A.

EXPIRES 3/31/17

DRAWING NO: TS-04