LOS PATRONES PARKWAY

FROM CHIQUITA CANYON DRIVE TO **COW CAMP ROAD** 

STAGE 2

DEVIATIONS FROM THE FOLLOWING COUNTY OF ORANGE / OC PUBLIC WORKS (OCPW) STANDARDS ARE APPROVED:

- OCHDM TOPIC 203.2(1) 1,400 FT MINIMUM RADIUS, TO ALLOW THE FOLLOWING MINIMUM RADII WITH SUPERELEVATION: a) R=625 FT, NORTHBOUND LANES STA 255+35.98 TO STA 258+66.77
- R=1100 FT. SOUTHBOUND LANES STA 249+90.38 TO STA 255+62.40 OCHDM TOPIC 202.2 6% MAXIMUM SUPERELEVATION, TO ALLOW THE FOLLOWING MAXIMUM
- a) 11% MAXIMUM, NORTHBOUND LANES STA 256+25.98 TO STA 257+76.77 b) 8% MAXIMUM, SOUTHBOUND OFF RAMP AT CHIQUITA CANYON DRIVE FROM STA
- OCPW SP 1108 AND OCHDM TOPIC 301.1, RURAL SECONDARY HIGHWAY TYPICAL SECTION, TO ALLOW A MEDIAN BARRIER OR OPEN MEDIAN, OPEN SWALES AND 10' WIDE
- OCHDM TOPIC 302.2, 5% SHOULDER CROSS-SLOPE, TO ALLOW 2% CROSS-SLOPE OCHDM TOPIC 101.2, 50 MPH DESIGN SPEED FOR RURAL SECONDARY HIGHWAY, TO ALLOW
- JANUARY 21, 2015, TO ALLOW A CABLE BARRIER ONLY ALONG OUTSIDE OF THE CURVE WHERE THE MULTI-PURPOSE PATHWAY IS LOCATED.
- PROJECT REPORT FOR "F" STREET FROM COW CAMP ROAD TO OSO PARKWAY DATED JANUARY 21, 2015, TO ALLOW STREET LIGHTING AT ONLY CHIQUITA CANYON DRIVE RAMPS

APPROVED BY:

OC PUBLIC WORKS

This plan is signed by the Orange County Public Works Department for concept and adherence to County (\$00ards and requirements only. OC Public Works

Plan Check: Paul Gutierrez (5/24/2018)

COW CAMP ROAD

INDEX OF SHEETS

HORIZONTAL CONTROL MAP

STREET IMPROVEMENT PLANS

SIGNING & STRIPING PLANS

TRAFFIC SIGNAL PLANS

STORM DRAIN PLANS

STORM DRAIN DETAILS

CONSTRUCTION NOTES & QUANTITIES

SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A

DIGALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT

TO EXCAVATE" WILL BE VALID. FOR YOUR DIGALERT I.D. NUMBER

CALL UNDERGROUND SERVICE ALERT TOLL FREE

1-800-422-4133 TWO WORKING DAYS BEFORE YOU DIG

DESCRIPTION

TITLE SHEET

**DETAILS** 

ADDED FENCE AND GATES FROM COW CAMP S-03, TYS-01-03,

BRIDGE COLUMNS, BASIN DETAILS. REVISED 51-17, 51-10, 51-12, 50-14

REVISIONS

ADDED NOTES, MGS & CRASH CUSHION BY

INTERSECTIONS AT CHIQUITA CYN DR.

DESCRIPTION

ROAD TO CHIQUITA CANYON DR.

GENERAL NOTES

TYPICAL SECTIONS

SHEET REF. NO.

S-02

S - 03

S-04

27 - 32

33-35

36 - 41

42 - 46

47-55

TYS-01-05

ST-17 - ST-22

SD-1 - SD-5

SD-6 - SD-14

ST-01-16

SS-1-3

TS-1-6

#### ORANGE COUNTY PUBLIC WORKS

COUNTY OF ORANGE,

THIS PLAN IS SIGNED BY OC PUBLIC WORKS DEPARTMENT FOR

JAMES TYLER, P.E. MANAGER, OC INFRASTRUCTURE PROGRAMS/DEVELOPMENT SUPPORTA DIVISION OF PUBLIC WORKS

KHALID BAZMI, P.E. COUNTY ENGINEER/ASSISTANT DIRECTOR OC PUBLIC WORKS

## DEVIATIONS FROM COUNTY OF ORANGE STANDARDS

- 92+26.04 TO STA 94+80.34
- MULTI-PURPOSE PATHWAY WITHIN THE RIGHT-OF-WAY.
- OCLDM CHAPTER 5.III.A.4. TO ALLOW MORE THAN TWO INLETS IN SERIES FOR THE STREET

KHALID BAZMI, P.E. COUNTY ENGINEER/ASSISTANT DIRECTOR OC PUBLIC WORKS

CONCEPT AND ADHERENCE TO COUNTY STANDARDS AND REQUIREMENTS ONLY. OC PUBLIC WORKS DEPARTMENT IS NOT RESPONSIBLE FOR DESIGN ASSUMPTIONS OR ACCURACY.

RECOMMENDED BY:

# STREET IMPROVEMENT PLAN GENERAL NOTES

1. THIS NOTE HEREIN INCORPORATES, BY REFERENCE, THOSE GENERAL NOTES NUMBERED 1 THROUGH 22 OF OC PUBLIC

WORKS STANDARD PLAN 1801, LATEST EDITION. 2. ALL WORK SHALL BE IN CONFORMANCE WITH THE LATEST EDITIONS OF BOTH THE COUNTY OF ORANGE, OC PUBLIC WORKS (OCPW) STANDARD PLANS AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AS PUBLISHED BY BNI BUILDING NEWS (GREENBOOK), EACH OF WHICH SHALL BE KEPT ON THE WORK SITE AT ALL TIMES.

3. THE DEVELOPER SHALL TELEPHONE OC PUBLIC WORKS INSPECTION SERVICES AT (714) 245-4550 AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION WORK SUBJECT TO OC PUBLIC WORKS INSPECTION. 4. OC PUBLIC WORKS ENCROACHMENT PERMIT REQUIRED. COUNTY APPROVED PLANS DO NOT RELIEVE THE

CONTRACTOR/DEVELOPER FROM THE RESPONSIBILITY OF OBTAINING PUBLIC PROPERTY PERMITS, WHICH SHALL BE AVAILABLE ON THE JOB AT ALL TIMES WORK IS BEING ACCOMPLISHED IN THE PUBLIC RIGHT-OF-WAY. 5. ALL CONCRETE CURB AND GUTTER FLOW LINES WITH LESS THAN 1% GRADE SHALL BE WATER TESTED PRIOR TO FINAL

FINISHING INSURING PROPER DRAINAGE WITHOUT UNACCEPTABLE HIGH OR LOW SPOTS. 6. ALL UTILITY TRENCH BACKFILL AND COMPACTION INSPECTION OUTSIDE THE LIMITS OF DEDICATED STREET RIGHT-OF-WAY SHALL BE UNDER A SEPARATE PERMIT AND INSPECTION FROM OC DEVELOPMENT SERVICES.

7. ALL DAMAGED CONCRETE SIDEWALKS OR CURBS SHALL BE SAW CUT TO THE NEAREST TRANSVERSE SCORE MARK OR ADJUSTABLE CONTROL POINT OR WEAKENED PLANE JOINT, AND REPLACED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF OC PUBLIC WORKS STANDARD PLANS.

8. DEVELOPER SHALL MAINTAIN ADJACENT STREETS IN NEAT, CLEAN, DUST-FREE AND SANITARY CONDITIONS AT ALL TIMES AND TO THE SATISFACTION OF THE COUNTY'S INSPECTOR. THE ADJACENT STREETS SHALL BE KEPT CLEAN OF DEBRIS. WITH DUST AND OTHER NUISANCE BEING CONTROLLED AT ALL TIMES. DEVELOPER SHALL BE RESPONSIBLE FOR ANY CLEAN UP ON ADJACENT STREETS AFFECTED BY HIS CONSTRUCTION. METHOD OF STREET CLEANING SHALL BE BY DRY SWEEPING OF ALL PAVED AREAS. NO STOCKPILING OF BUILDING MATERIALS WITHIN THE COUNTY RIGHT-OF-WAY WITHOUT PERMISSION OF THE COUNTY'S INSPECTOR.

9. PRIOR TO FINAL ACCEPTANCE OF STREET IMPROVEMENTS, ALL STREET PAVEMENT, STRIPING AND STENCILING WITHIN THE PERIMETER OF THE CONSTRUCTION PROJECT WILL BE RESTORED TO A "LIKE NEW" CONDITION, IN A MANNER MEETING THE APPROVAL OF THE OCPW INSPECTOR. PAINT FOR TRAFFIC STRIPING AND PAVEMENT MARKINGS USED ON PUBLIC ROADS SHALL CONFORM TO SECTION 134. "TRAFFIC STRIPING, CURB AND PAVEMENT MARKINGS, AND PAVEMENT MARKERS" OF THE LATEST EDITION OF THE GREENBOOK WITH THE FOLLOWING EXCEPTION: DELETE THE LAST SENTENCE OF PARAGRAPH FIVE OF SUBSECTION 314-4.3.5, "APPLICATION," AND REPLACE WITH "IF THE PAINT IS APPLIED IN TWO COATS, THE FIRST COAT SHALL BE APPLIED AT LEAST SEVEN CALENDAR DAYS BEFORE THE SECOND COAT."

10. ALL TRAFFIC MARKING AND STRIPING SHALL BE STENCILS THAT CONFORM TO THE LATEST APPROVED EDITIONS OF THE

11. TRAFFIC SHALL BE MAINTAINED AT ALL TIMES AND SHALL BE PROTECTED WITHIN ADEQUATE BARRICADES, LIGHTS, SIGNS AND WARNING DEVICES AS PER OCPW STD. PLAN 1801, NOTE 17, AND AS REQUIRED BY THE OCPW INSPECTOR.

12.0C PUBLIC WORKS STANDARD PLANS SHALL TAKE PRECEDENCE OVER ANY CONFLICTS EXCEPT FOR STANDARD PLANS AFFECTING UTILITY COMPANIES. IF THEIR STANDARDS ARE MORE STRINGENT. 13. ALL UTILITIES UNDER PAVED AREAS OF PRIVATE STREETS SHALL HAVE A MINIMUM 30" COVER. OCPW SHALL TEST ALL

SOILS AND A COMPACTION CERTIFICATION SHALL BE OBTAINED FOR ALL UNDERGROUND UTILITIES PRIOR TO ANY PAVING. 14 NO CONCENTRATED FLOWS ACROSS ASPHALT PAVEMENT. 15. SURVEY MONUMENTS SHALL BE PRESERVED AND REFERENCED BEFORE CONSTRUCTION, AND REPLACED AFTER

CONSTRUCTION PURSUANT TO SECTION 8771 OF THE BUSINESS AND PROFESSIONAL CODE AND OC PUBLIC WORKS STANDARD PLAN 1801, NOTE 12.

16. PRIOR TO ORDERING ANY CONCRETE OR CONCRETE PRODUCTS FOR USE ON THIS PROJECT, SOIL SULFATE TESTS SHALL BE PERFORMED BY THE OC PUBLIC WORKS MATERIALS LABORATORY.

17. CONCRETE ITEMS SHALL MEET THE REQUIREMENTS OF THE INTENT OF SECTION 201-1.1.3 "CONCRETE SPECIFIED BY SPECIAL EXPOSURE" OF THE GREENBOOK, LATEST APPROVED EDITION, UNLESS OTHERWISE APPROVED BY THE OC PUBLIC WORKS MATERIALS LABORATORY. 18. SIDEWALK SHALL BE CLEAR OF ALL VERTICAL OBSTRUCTIONS PER OCPW STANDARD PLAN 1410.

19. STRUCTURAL SECTION REQUIREMENTS FOR PRIVATE AND PUBLIC ROADS CREATED BY A TRACT MAP OR PARCEL MAP SHALL BE DETERMINED BY THE OCPW MATERIALS LAB AND OCPW STANDARD PLAN 1801, NOTE 10. 20. WHERE BACKFILL IS TO BE PLACED UNDER A PREVIOUSLY PLACED CONDUIT OR UTILITY, SAND SLURRY BACKFILL WILL

BE PROVIDED TO THE SATISFACTION OF THE OCPW INSPECTOR.

CALTRANS ENCROACHMENT PERMIT No.: 1215-NMC-0895

OCPW ENCROACHMENT PERMIT No .: COUNTY APPROVED PLANS DO NOT RELIEVE CONTRACTOR/DEVELOPER FROM THE RESPONSIBILITY TO OBTAIN COUNTY PROPERTY PERMITS WHICH SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES WORK IS BEING ACCOMPLISHED IN PUBLIC RIGHT-OF-WAY.

## REFERENCES

- GRADING. STORM DRAIN AND CULVERT PLANS LOS PATRONES PARKWAY DELTA 2 APPROVED 10-28-2016 PERMIT GA150002
- 2. WILDLIFE UNDERCROSSING LOS PATRONES PARKWAY DELTA 1 APPROVED 10-07-2016 PERMIT
- 3. STREET AND STORM DRAIN IMPROVEMENT PLANS LOS PATRONES PARKWAY STAGE 1 PERMIT ST150014

#### PHONE NO. UTILITY OWNER

APPROVED BY:

- A SANTA MARGARITA WATER DISTRICT (SMWD) (949) 459-6522
- (949) 459-6519 B THE GAS COMPANY (SCG) (949) 488-8514 (714) 666-5696
- C AT&T D SAN DIEGO GAS & ELECTRIC (SDG&E)

DATE

APPROVED

- (858) 654-8394 TRANSMISSION (949) 361-8047 DISTRIBUTION
- F COX COMMUNICATIONS (COX)

**BASIS OF BEARINGS:** THE BEARINGS SHOWN HEREON ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE VI, NAD 83, EPOCH 1991.35, AS DETERMINED LOCALLY BY A LINE BETWEEN CONTINUOUS GLOBAL POSITIONING STATIONS (CGPS), TRAK AND SBCC, BEING N60°31'33"W AS DERIVED FROM GEODETIC VALUES PUBLISHED AND ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

(949) 546-2802

## **BENCH MARK:**

ORANGE COUNTY BENCHMARK NUMBER 3W-69-99. NAVD88 (FEET) ELEVATION = 368.550:  $3\frac{3}{4}$  OCS ALUMINUM BENCHMARK DISK STAMPED '3W-69-99,SET IN THE TOP OF A 6" BY 6" CONCRETE POST, UP 0.3', WITH A STEEL WITNESS POST WESTERLY AND 2 CARBONITE WITNESS POSTS NORTHEASTERLY, IN CANADA GOBERNADORA, REFER TO ORANGE COUNTY PUBLIC WORKS VERTICAL CONTROL DATA SHEET FOR MORE INFORMATION

## LEGAL DESCRIPTION:

PORTIONS OF LOTS H, I, P, R, T, W, X, Y, Z AND AA TRACT NO. 17561 AS SHOWN ON THE MAP RECORDED IN BOOK 932, PAGES 1-38 INCLUSIVE OF MISCELLANEOUS MAPS, RECORDS OF ORANGE COUNTY. PORTIONS OF LOTS 13, 14, 15, 19, 20, 21, 22, 25, 26, 27, 43, 48, 50, 51, 52, AND 54 OF CERTIFICATE OF COMPLIANCE NO. CC 2011-01 RECORDED AS INSTRUMENT NO. 2011000677171 OF OFFICIAL RECORDS OF ORANGE COUNTY.

# OWNER/DEVELOPER:

RMV PA 2 DEVELOPMENT, L.L.C. 28811 ORTEGA HIGHWAY/ PO BOX 9 SAN JUAN CAPISTRANO, CA 92675 (949) 240-3363

## PREPARED BY



PREPARED UNDER RESPONSIBLE CHARGE OF:

VICTOR A. ILLIG



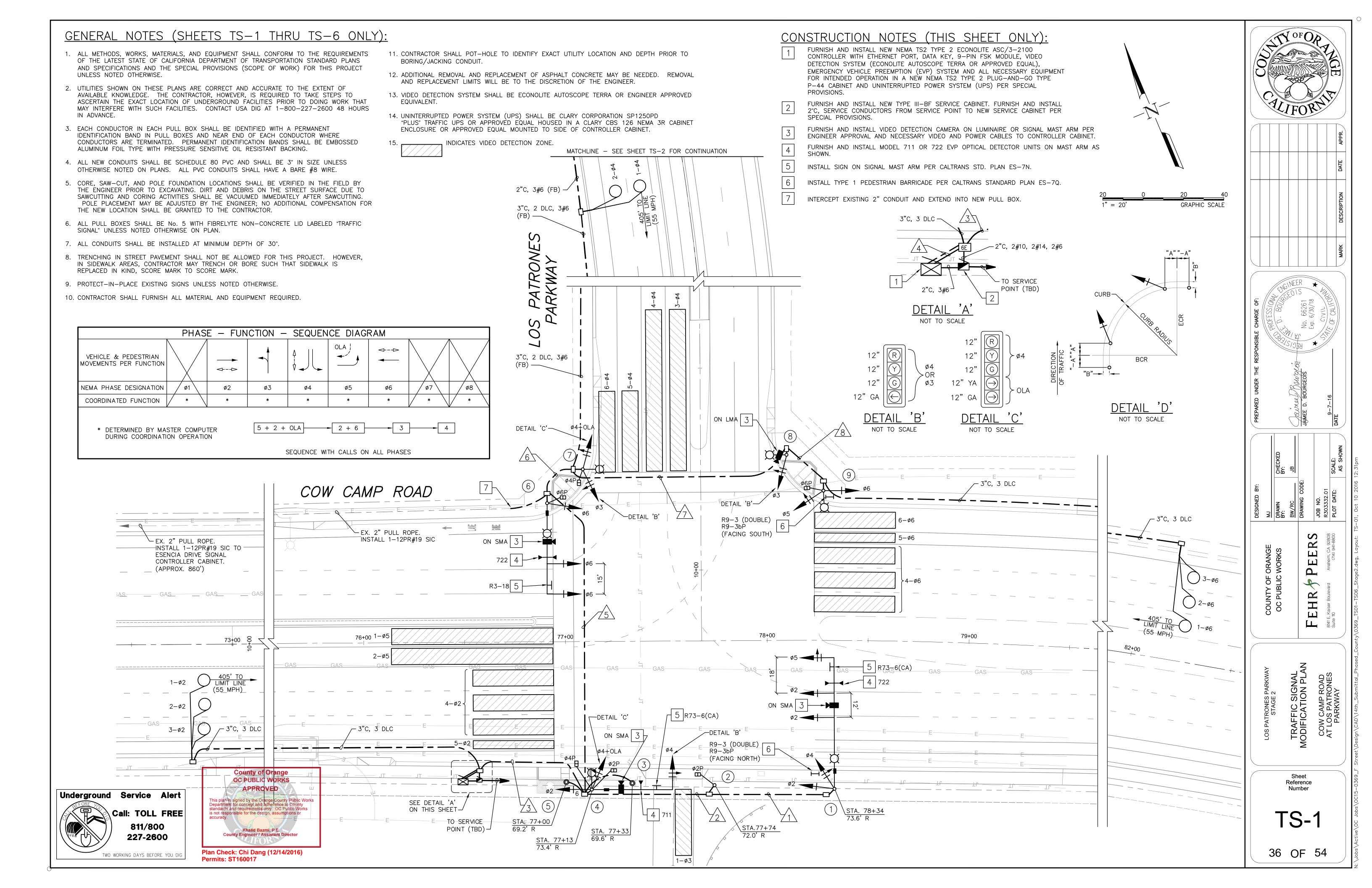
## NPDES NOTES

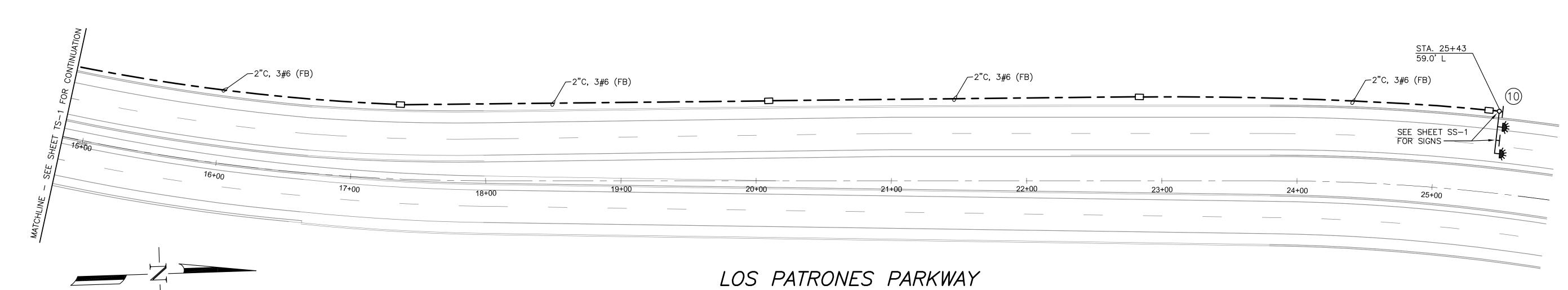
- IN THE CASE OF EMERGENCY, CALL PHILLIP HEALD, CONSTRUCTION MANAGER, AT WORK PHONE # 949-240 3363
- 2. SEDIMENT FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON SITE USING STRUCTURAL CONTROLS TO THE MAXIMUM EXTENT
- STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS. DRAINAGE FACILITIES
- OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TACKING, OR WIND. APPROPRIATE BMP'S FOR CONSTRUCTION-RELATED MATERIALS, WASTES SPILLS SHALL BE IMPLEMENTED TO MINIMIZE TRANSPORT FROM THE SITE TO STREFTS, DRAINAGE FACILITIES, OR ADJOINING PROPERTIES BY WIND OR
- RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED AT CONSTRUCTION SITES UNLESS TREATED TO REDUCE OR REMOVE
- SEDIMENT AND OTHER POLLUTANTS. ALL CONSTRUCTION CONTRACTOR AND SUBCONTRACTOR PERSONNEL ARE TO BE MADE AWARE OR THE REQUIRED BEST MANAGEMENT PRACTICES AND GOOD HOUSEKEEPING MEASURES FOR THE PROJECT SITE AND ANY
- ASSOCIATED CONSTRUCTION STAGING AREAS. AT THE END OF EACH DAY OF CONSTRUCTION ACTIVITY ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND PROPERLY
- DISPOSED IN TRASH OR RECYCLE BINS. CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT AN ANTICIPATED STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE. DISCHARGES OF MATERIAL OTHER THAN STORM WATER ONLY WHEN NECESSARY FOR PERFORMANCE AND COMPLETION OF CONSTRUCTION PRACTICES AND WHERE THEY DO NOT: CAUSE OR CONTRIBUTE TO A VIOLATION OF ANY WATER QUALITY STANDARD; CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR NUISANCE; OR CONTAIN A HAZARDOUS SUBSTANCE IN A QUANTITY REPORTABLE UNDER FEDERAL
- REGULATIONS 40 CFR PARTS 117 AND 302. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, GLUES, LIMES, PESTICIDES, HERBICIDES, WOOD PRESERVATIVES AND SOLVENTS; ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS, AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS; FERTILIZERS. VEHICLE/EQUIPMENT WASH WATER AND CONCRETE WASH WATER; CONCRETE, DETERGENT OR FLOATABLE WASTES; WASTES FROM ANY ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING AND SUPERCHLORINATED POTABLE WATER LINE FLUSHING. DURING CONSTRUCTION, PERMITTEE SHALL DISPOSE OF SUCH MATERIALS IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE, PHYSICALLY SEPARATED FROM POTENTIAL STORM WATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL
- REQUIREMENTS. 10. DEWATERING OF CONTAMINATED GROUNDWATER OR DISCHARGING CONTAMINATED SOILS VIA SURFACE EROSION IS PROHIBITED. DEWATERING OF NON-CONTAMINATED GROUNDWATER REQUIRES A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT FROM THE RESPECTIVE STATE REGIONAL WATER QUALITY CONTROL BOARD.
- 11. GRADED AREAS ON THE PERMITTED AREA PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY. Drainage is to be directed toward desilting facilities.
- 12. THE PERMITTEE AND CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
- 13. THE PERMITTEE AND CONTRACTOR SHALL INSPECT THE EROSION CONTROL WORK AND INSURE THAT THE WORK IS IN ACCORDANCE WITH THE
- 14. THE PERMITTEE SHALL NOTIFY ALL GENERAL CONTRACTORS SUBCONTRACTORS, MATERIAL SUPPLIERS, LESSEES, AND PROPERTY OWNERS: THAT DUMPING OF CHEMICALS INTO THE STORM DRAIN SYSTEM OR THE WATERSHED IS PROHIBITED
- 15. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES
- WHEN RAIN IS IMMINENT. 16. ALL REMOVABLE EROSION PROTECTIVE DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.
- 17. SEDIMENTS FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON SITE USING AN EFFECTIVE COMBINATION OF EROSION AND SEDIMENT CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE, AND STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING, OR WIND.
- APPROPRIATE BMPS FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILLS OR RESIDUES SHALL BE IMPLEMENTED AND RETAINED ON SITE TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTY BY WIND OR RUNOFF.

### STANDARD PLAN NOTE

REFERENCES HEREIN TO O.C.P.W. STANDARD PLANS SHALL BE UNDERSTOOD TO REFER TO ORANGE COUNTY STANDARD PLANS 2013 EDITION.

> STREET AND STORM DRAIN IMPROVEMENT PLANS LOS PATRONES PARKWAY FROM CHIQUITA CANYON DRIVE TO COW CAMP ROAD SHEET 1 OF 55





CAE	BLE A	AND CONDUCT	OR	SC	HED	DUL	Ε			
AWG SIZE, WIRE	S T	5114.050		CONE	DUIT S	SIZE 8	& RUN	NUN P	1BER	
OR CABLE TYPE	T D	PHASES	$\triangle$	2	3	4	<u>\$</u>	<u>6</u>	$\triangle$	8
	1	ø2,ø4,ø5/- <i>/</i> -	2/0/0	2/0/0	2/0/0	2/0/0	_	_	-	-
	2	-/ø2P/ø2PPB		0/1/1	0/1/1	0/1/1				
	3	-/-/ø2PPB			0/0/1	0/0/1				
12 CSC /	4	ø2,ø4+OLA,ø4P,ø2P/-/-	_	_	2/0/0	2/0/0	_	_	-	_
	(5)	-/-/ø4PPB	_	_	0/0/1	0/0/1	_	_	-	_
5 CSC /	6	ø6,ø6P/-/ø4PPB	_	_	1/0/1	1/0/1	1/0/1	_	-	_
	7	Ø4+OLA,Ø3,Ø4P/-/Ø6PPB	_	_	1/0/1	1/0/1	1/0/1	1/0/1	_	_
	8	ø3/-/ø6PPB	_	_	1/0/1	1/0/1	1/0/1	1/0/1	1/0/1	_
/ 3 CSC	9	ø5,ø6,ø6P/-/-	_	_	1/0/0	1/0/0	1/0/0	1/0/0	1/0/0	1/0/0
		TOTAL	2/0/0	2/1/1	8/1/4	8/1/6	4/0/3	3/0/2	2/0/1	1/0/0
#14	I.I.S.N.S		2	2	2	_	2	_	_	_
	SIGNAL	& SIGN COM.	1	1	2	_	1	1	1	1
<b>#</b> 10	LUMINAI	RES	2	2	2	_	2	2	2	2
	TOTAL		3	3	4	_	3	3	3	3
#6	FLASHIN	G BEACON			3		3	3		
	ø2					3				
DI C	ø4				2	2	2	2		
DLC	ø6				3	3	3	3	3	3
		_	_	5	8	5	5	3	3	
VIDEO DETECTION PO	1	1	4	4	2	1	1	_		
12PR#19 SIC				1	1	1				
EVP CABLE (M-138)			1	1	3	3	1	_	-	_
CONDUIT SIZE (NEW)	· · · · · · · · · · · · · · · · · · ·							2-3"	3"	2
PERCENT FILL (%)			18	11	25	25	25	17	21	21

INSTALL	NEW	CONDUCTORS	THROUGHOUT

	D	ETEC	TION	S	CH	EDI	JLE
	1			9	1	-ø5	2-ø5
	2	1-ø2	2-ø2	10	1	-ø6	2-ø6
	3	3-ø2		11	1.7	3-ø6	6-ø6
	4	Со4ниу2о		12	4	ø6	5-ø6
	5	OC PUBLI	C WORKS	13			
This	6	211 1 111	2-ø4	14	rke		
De <sub>l</sub>	artment idards a	for concert and nd requirements	acherange to (		29		
is n	ot respoi ura&.	3-Ø4	4-ø4	16			
·	Cou	Khalid Ba nty Engineer / /		ctor			

Plan Check: Chi Dang (12/14/2016) Permits: ST160017

							POLE AN	D EQ	UIPMENT	SCHE	DUL	.E					
	POLE DATA	4	SIGNAL	SO	LID STA L.E.D.	TE	SIGNAL HEA	ADS AND	MOUNTINGS		PUSH TON	F	DUNDATION		DLE ATION	IISNS LED TYPE	
NO.	TYPE	HEIGHT	M.A.	M.A.	WATTS	TYPE	VEHICULAR	M.A.	PEDESTRIAN	PHASE	QUAD.	TYPE	SIZE	"A" "B"		(DOUBLE FACE)	
1	61-5-100	30'	65'	15'	157	*	SV-2-TB	MAS MAS MAS	_	_	_	С	3'-6" x 13'-0"	AS SHOWN		LOS PATRONES	
2	1-A	7'	_	_	_	_	-	_	TP-1-T	ø2	N	С	2'-0" x 3'-6"	AS S	SHOWN	_	
3	PPB POST	3'-4"	_	_	_	_	_	_	_	ø2	N	С	1'-6" x 1'-6"	AS S	SHOWN	_	
4	26-4-100	30'	40'	15'	157	*	SV-2-TB	MAS-4B	SP-1-CS SP-1-CS	_	_	С	3'-6" x 12'-0"	AS S	SHOWN	COW CAMP	
(5)	PPB POST	3'-4"	_	_	-	_	_	_	_	ø4	w	С	1'-6" x 1'-6"	AS S	SHOWN	_	
6	26-4-100	30'	45'	15'	157	*	SV-1-T	MAS MAS	SP-1-CS	ø4	E	С	3'-6" x 12'-0"	11.2'	4.3'	LOS PATRONES	
7	15TS	30'	_	15'	157	*	SV-2-TB	_	SP-1-CS	ø6	S	С	2'-6" x 7'-6"	11.7'	3.2'	_	
8	TYPE 15	30'	_	15'	157	*	SV-1-T	_	_	ø6	S	С	2'-6" x 5'-0"	11.0'	3.7'	_	
9	15TS	30'	_	15'	157	*	TV-2-T	_	SP-1-CS	_	_	С	2'-6" x 7'-6"	10.4	3.2'	_	
10	TYPE 9B FLASHING BEACON	20'	18'	_	_	_	_	_	_	_	_	С	2'-6" x 8'-6"	AS SHOWN		FURNISH AND INSTALL SIGN LIGHT PER CALTRANS STD. PLAN ES-7K	

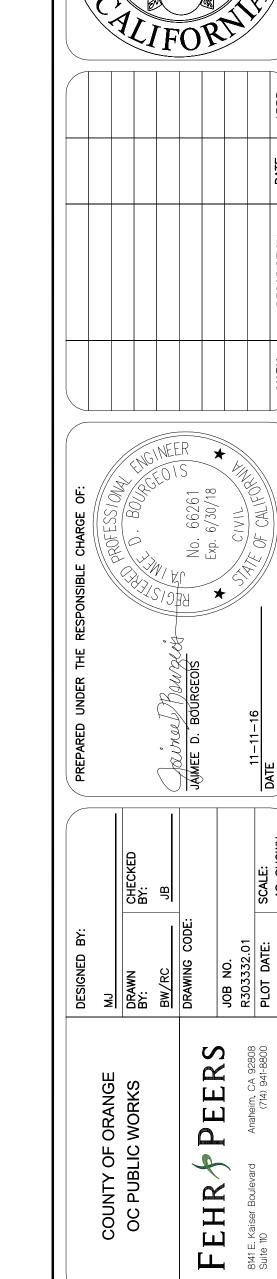
C = C.I.D.H.

NOTES:
ALL EQUIPMENT IS NEW.

\* = COOPER NAVION LED: MODEL NVN-AE-03-E-U-T3-10K-U-AP OR APPROVED EQUAL.

■ = ROTATE LUMINAIRE ARM 90°

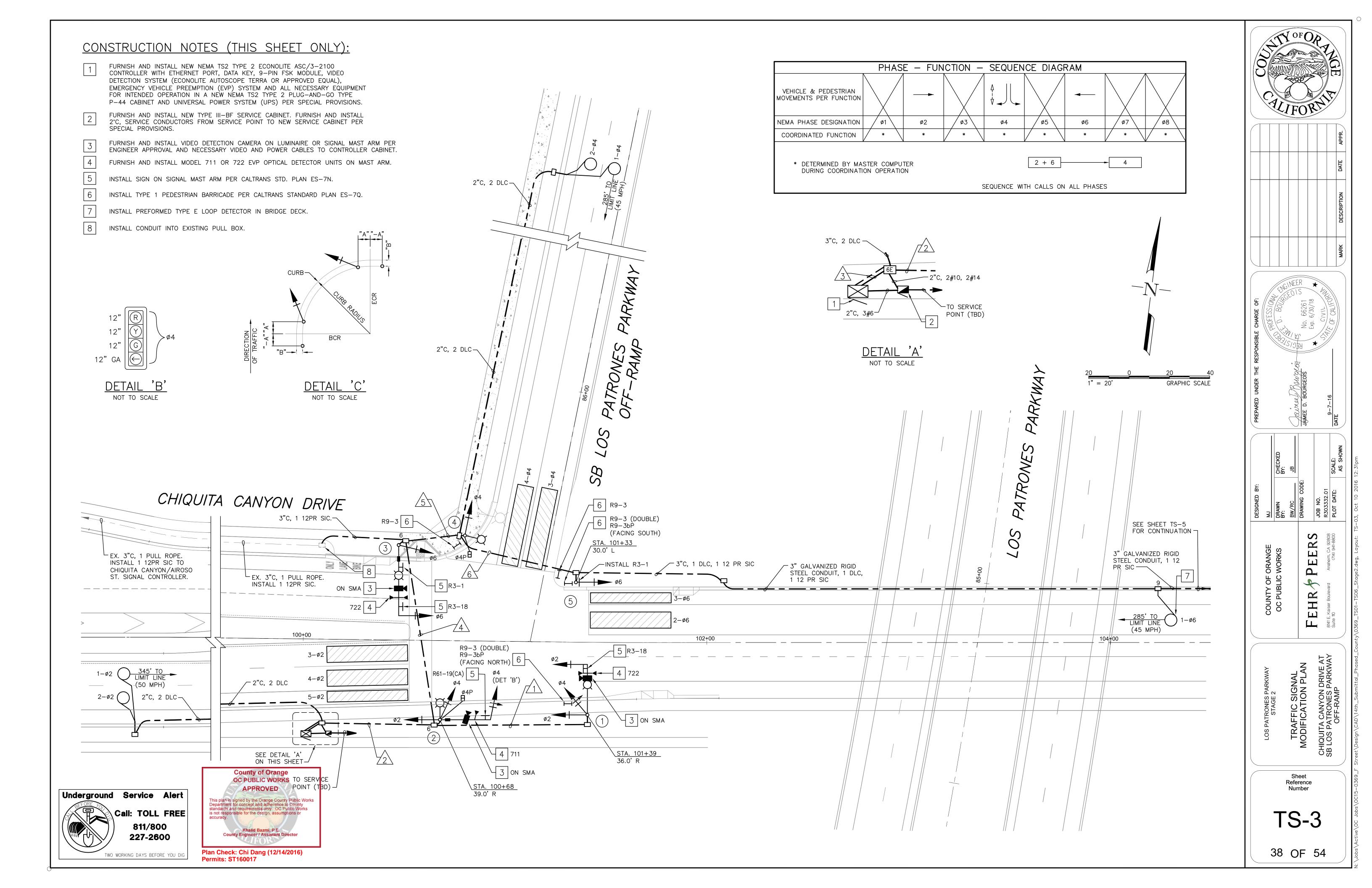
CS = CLAM SHELL MOUNT



STAGE 2
CONDUCTOR AND PO
SCHEDULES

Sheet Reference Number

37 OF 54



CABI	_E AI	ND CONDUC	TOF	R S	CHE	EDU	LE		
AWG SIZE, WIRE	S T		NDUIT SIZE & RUN NUMBER						
OR CABLE TYPE	T D	PHASES	$\triangle$	2	3	4	<u>\$</u>	<u>6</u>	
	1)	ø2,ø4/-/-	1/0/0	1/0/0	1/0/0	_	_	_	
12 CSC /	2	ø2,ø4,ø4P/-/ø4PPB	_	1/0/1	1/0/1	-	_	-	
5 csc	3	-/ø6/ø4PPB	_	0/1/1	0/1/1	0/1/1	_	_	
3 636	4	Ø4,Ø4P/-/-	_	1/0/0	1/0/0	1/0/0	1/0/0	_	
3 CSC	(5)	-/ø6/-	_	0/1/0	0/1/0	0/1/0	0/1/0	0/1/0	
		TOTAL	1/0/0	3/2/2	3/2/2	1/2/1	1/1/0	0/1/0	
#14	I.I.S.N.S		_	2	_	2	_	-	
	SIGNAL	& SIGN COM.	1	2	_	1	1	1	
<b>#</b> 10	LUMINAI	RES	2	2	_	2	2	-	
	TOTAL		3	4	_	3	3	1	
	ø2				2				
DLO	ø4			2	2	2	2		
DLC	ø6			1	1	1	1	1	
	TOTAL		_	3	5	3	3	1	
VIDEO DETECTION PO	WER/VIDE	 [0	1	3	3	1	_	_	
EVP CABLE (M-138)	· · · · · · · · · · · · · · · · · · ·	1	3	3	1	_	_		
12 PR#19 SIC				2	2	2	1	1	
CONDUIT SIZE (NEW)			2	4	4	3	3	3	
PERCENT FILL (%)			14	18	18	18	12	4	

INSTALL NEW CONDUCTORS THROUGHOUT

	ETEC	CTOR	SC	CHEDU	JLE				
1									
2	1-ø2	2-ø2	10	1–	1-ø6				
3	5-	-ø2	11						
4	3-ø2	4-ø2	12	2-ø6	3-ø6				
5			13						
6	1-ø4	2-ø4	14						
7			15						
8	3-ø4	4-ø4	16						

	POLE AND EQUIPMENT SCHEDULE															
POLE DATA		A	SIGNAL	SOLID STATE SIGNAL HEA		DS AND	MOUNTINGS	DED DIICH		FOUNDATION		POLE LOCATION		IISNS LED TYPE		
NO.	TYPE	HEIGHT	M.A.	M.A.	WATTS	TYPE	VEHICULAR	M.A.	PEDESTRIAN	PHASE	QUAD.	TYPE	SIZE	"A"	"B"	(DOUBLE FACE)
1	19-4-100	30'	25'	15'	157	*	SV-2-TB	MAS	-	_	_	С	3'-0" x 11'-0"	AS S	HOWN	LOS PATRONES
2	19-4-100	30'	25'	15' ■	157	*	SV-2-TB	MAS	SP-1-CS	ø4	W	С	3'-0" x 11'-0"	AS S	HOWN	CHIQUITA CANYON
3	24-4-100	30'	35'	15'	157	*	SV-1-T	MAS	_	ø4	E	С	3'-0" x 11'-0"	-11.0'	6.2'	LOS PATRONES
4	15TS	30'	_	15'	157	*	SV-1-T	_	SP-1-CS	_	_	С	2'-0" x 3'-6"	19.5'	3.7'	_
5	1-A	10'	ı	_	157	1	TV-1-T	-	_	_	_	С	2'-6" x 7'-6"	AS S	HOWN	_

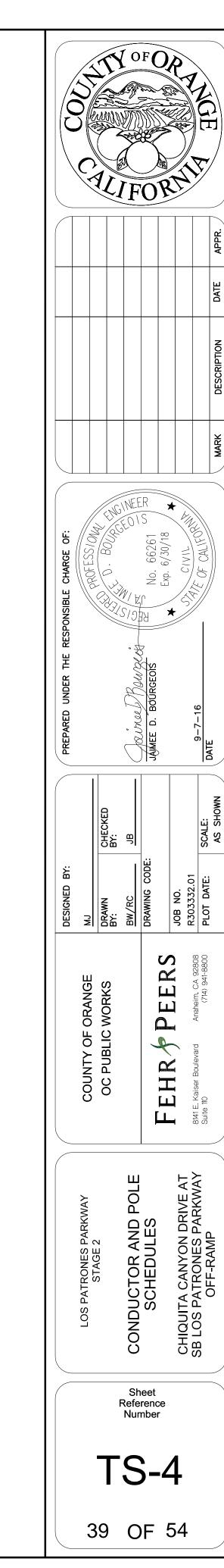
C = C.I.D.H.

NOTES: = ROTATE LUMINAIRE ARM 90°

ALL EQUIPMENT IS NEW.

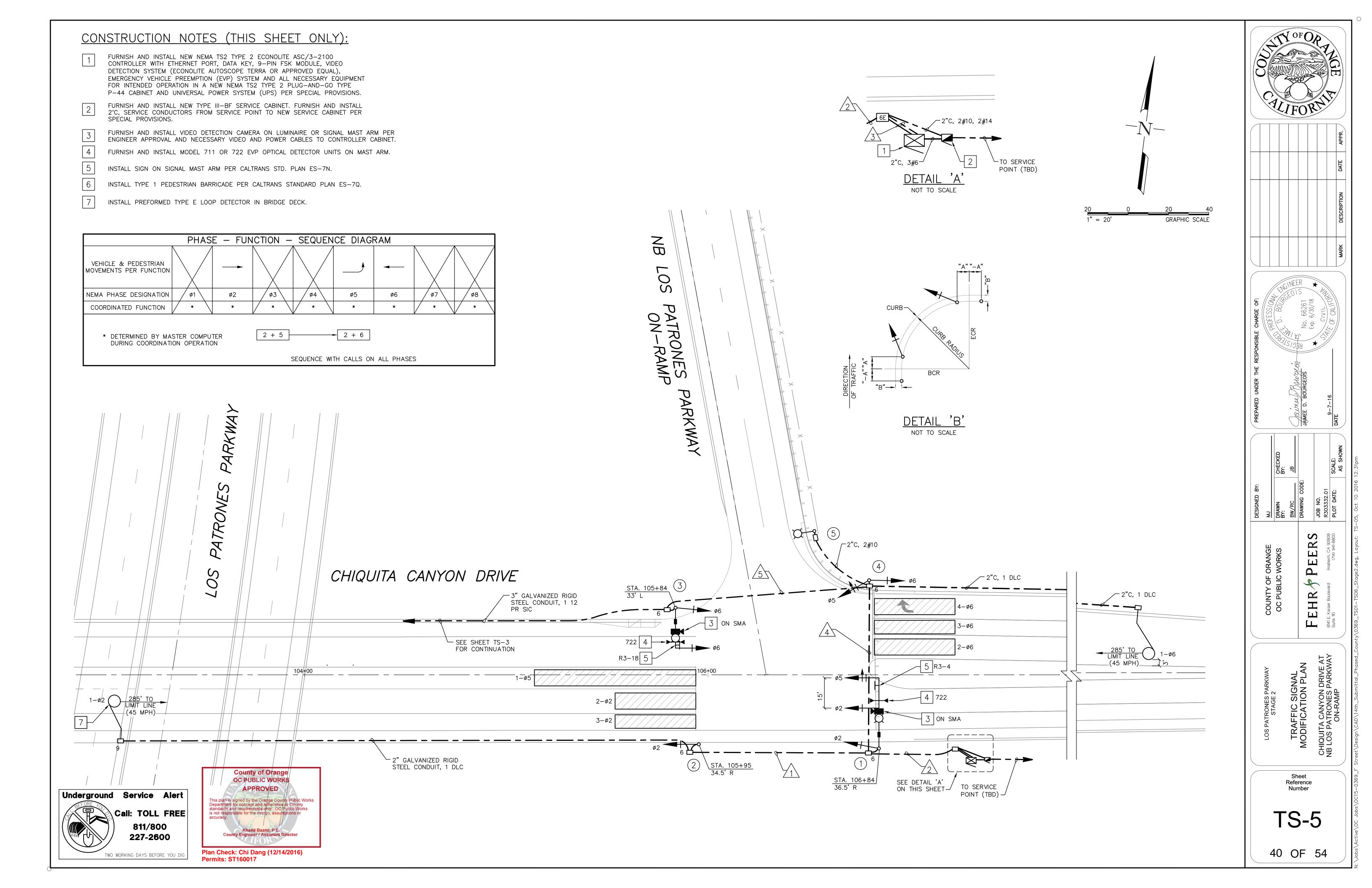
\* = COOPER NAVION LED: MODEL NVN-AE-03-E-U-T3-10K-U-AP OR APPROVED EQUAL.

CS = CLAM SHELL MOUNT





Plan Check: Chi Dang (12/14/2016) Permits: ST160017



CABI	_E AI	ND CONDUC	TOF	R S	CHE	EDU	LE			
AWG SIZE, WIRE	S		CONDUIT SIZE & RUN NUMBE							
OR CABLE TYPE	STD	PHASES	$\triangle$	2	3	4	<u>\$</u>			
12 CSC	1	ø2,ø5/- <i>/</i> -	1/0/0	1/0/0	1/0/0	_	_			
	2	-/ø2/-	_	0/1/0	0/1/0	_	_			
5 CSC /	3	-/ø6/-	_	0/1/0	0/1/0	0/1/0	_			
3 csc	4	ø5,ø6/-/-	_	1/0/0	1/0/0	1/0/0	1/0/0			
3 636		TOTAL	1/0/0	2/2/0	2/2/0	1/1/0	1/0/0			
#14	I.I.S.N.S	•	2	2	_	2	_			
	SIGNAL	& SIGN COM.	1	2	_	1	1			
#10	LUMINAI	RES	2	2	_	2	2			
	TOTAL		3	4	_	3	3			
	ø2		1	1	1					
DLC	ø6			1	1	1				
	TOTAL		1	2	2	1	_			
VIDEO DETECTION PC	WER/VIDE		1	2	2	1				
EVP CABLE (M-138)	•		1	2	2	1	_			
12 PR#19 SIC					1	1	1			
CONDUIT SIZE (NEW)			2	3	3	3	3			
PERCENT FILL (%)		18	20	19	11	6				

INSTALL	NFW	CONDUCTORS	THROUGHOUT
1113171	1 1 - 11	001100010113	11111100011001

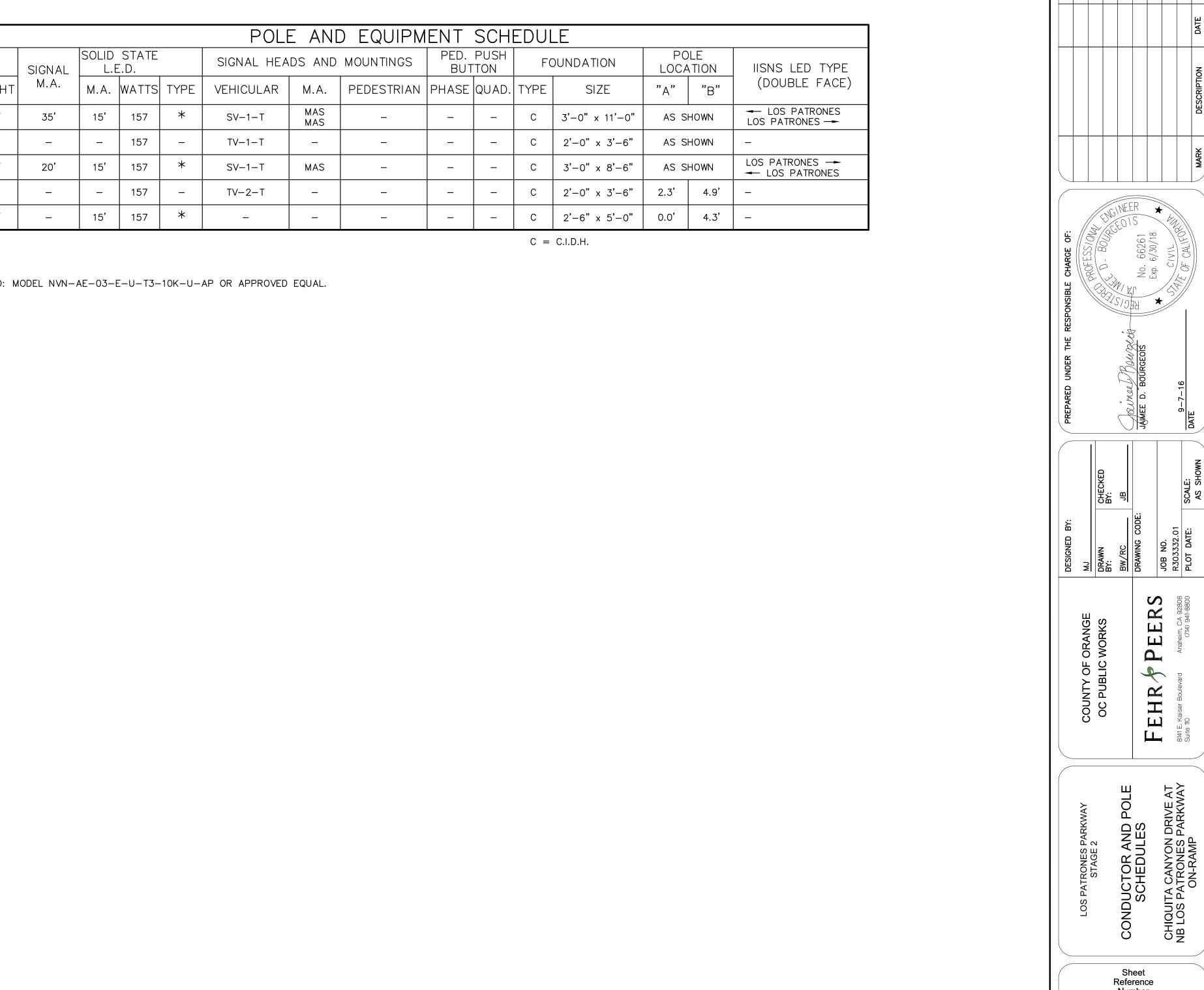
	DETECTOR SCHEDULE											
1			9	9 1-ø5								
2	1-	<b>ø</b> 2	10	1-ø6								
3			11	4-	-ø6							
4	2-ø2	3-ø2	12	2-ø6	3-ø6							
5			13									
6			14									
7			15									
8			16									
<u> </u>												

	POLE AND EQUIPMENT SCHEDULE															
	POLE DATA	Ą	SIGNAL		STATE E.D.	· · · · · · · · · · · · · · · · · · ·		•	PED. PUSH FOUNDATION			POLE LOCATION		IISNS LED TYPE		
NO.	TYPE	HEIGHT	M.A.	M.A.	WATTS	TYPE	VEHICULAR	M.A.	PEDESTRIAN	PHASE	QUAD.	TYPE	SIZE	"A"	"B"	(DOUBLE FACE)
1	24-4-100	30'	35'	15'	157	*	SV-1-T	MAS MAS	_	_	_	С	3'-0" x 11'-0"	AS S	HOWN	── LOS PATRONES LOS PATRONES ──
2	1-A	10'	_	_	157	-	TV-1-T	_	_	_	_	O	2'-0" x 3'-6"	AS S	HOWN	-
3	17-3-100	30'	20'	15'	157	*	SV-1-T	MAS	_	_	_	С	3'-0" x 8'-6"	AS S	HOWN	LOS PATRONES — LOS PATRONES
4	1-A	10'	_	_	157	ı	TV-2-T	_	_	_	ı	С	2'-0" x 3'-6"	2.3'	4.9'	-
5	TYPE 15	30'	_	15'	157	*	_	_	_	_	_	С	2'-6" x 5'-0"	0.0'	4.3'	-

NOTES:

ALL EQUIPMENT IS NEW.

\* = COOPER NAVION LED: MODEL NVN-AE-03-E-U-T3-10K-U-AP OR APPROVED EQUAL.





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