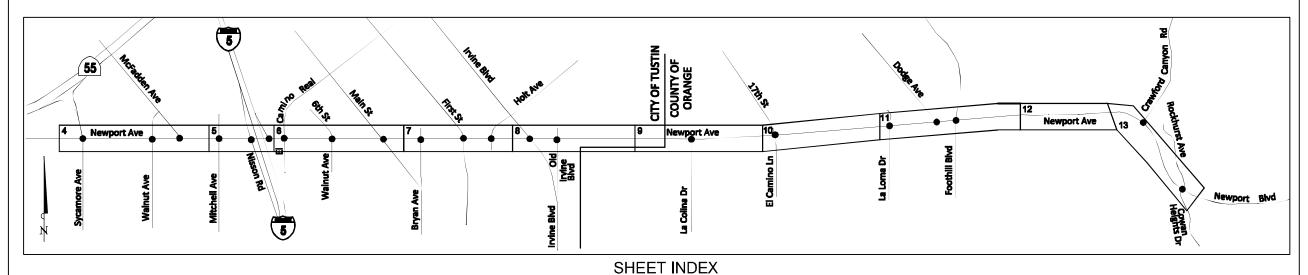
ORANGE COUNTY TRANSPORTATION AUTHORITY

NEWPORT AVENUE/BOULEVARD (NORTH) CORRIDOR TRAFFIC SIGNAL SYNCHRONIZATION PROJECT



GENERAL NOTES:

- 4. ALL DETECTOR LOOPS SHALL BE PROTECTED IN PLACE, ANY DAMAGED LOOPS SHALL BE REPAIRED WITHIN 3 WORKING DAYS.
- 6. UNLESS OTHERWISE INDICATED, PULL BOXES SHALL BE #0E FOR SIGNAL INTERCONNECT. PULL BOXES SHALL BE INSTALLED AT A MAXIMUM OF 800' INTERVALS, PULL BOXES SHALL NOT BE LOCATED WITHIN DRIVEWAYS OR WITHIN 1" OF WHEELCHAIR RAMPS.
- CONDUIT SHALL BE PVC SCHEDULE 40 AS SHOWN ON THE PLANS, CONDUIT CROSSING ROADWAYS AND UNDER CONCRETE SIDEWALKS AND DRIVEWAYS SHALL BE BORED UNLESS OTHERWISE APPROVED BY THE CITY, CONDUIT SHALL BE INSTALLED BY THE TRACHING METHOD DAILY WHERE NOTED ON THE PLANS OR AS ALLOWED BY THE PROJECT ENGINEER NO ADDITIONAL MEASUREMENT OR PAYMENT WILL BE MADE FOR INSTALLATION OF CONDUIT BY TRESHORD HIS METHOD.
- WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE PROSECUTED TO COMPLETION WITHOUT DELAY SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
- 10. PVC CONDUIT INSTALLED BY TRENCHING IN PAVEMENT METHOD SHALL HAVE 18" COVER AND BACK FILLED WITH 2 SACK CEMENT SLURRY AND 2" A.C. CAP WHERE APPROVED BY THE CITY.
- 11. CONTRACTOR SHALL USE COMPRESSED AIR TO CLEAN OUT EXISTING CONDUITS PRIOR TO INTERCONNECT CABLE INSTALLATION OR SIGNAL INTERCONNECT RELOCATION.
- 12. ALL DAMAGED OR REMOVED CONCRETE, SIDEWALK, LANDSCAPE, AND PAVEMENT SHALL BE REPLACED IN KIND.

- 16. CONTRACTOR SHALL CLEAR ALL EXISTING PULL BOX INTERIORS FROM DEBRIS AND DIRT PRIOR TO THE INTERCONNECT CABLE(S) INSTALLATION.
- 18. ALL NEW AND EXISTING CONDUITS SHALL BE DUCT SEALED.



CONSTRUCTION NOTES:

- 1 FURNISH AND INSTALL NEW PVC SCHEDULE 80 3" CONDUIT.
- URNISH AND INSTALL 24 SMFO CABLE IN CONDUIT.
- 3 FURNISH AND INSTALL 6 SMFO CABLE IN CONDUIT. 4 FURNISH AND INSTALL 12PAIR#19 SIC PER AGENCY SPECIAL PROVISIONS.

- 7 FURNISH AND INSTALL NEW #6E PULL BOX, REMOVE EXISTING PULL BOX.
- 8 FURNISH AND INSTALL FIBER SWITCH PER AGENCY SPECIAL PROVISIONS.
- TO FURNISH AND INSTALL FIBER DISTRIBUTION UNIT WITH SPLICE TRAY. FURNISH AND INSTALL 6 SC DUPLEX CABLES INSIDE THE HIBER DISTRIBUTION UNIT TERMINATE SC CABLES ON THE BACK OF THE PANELS, FUSION SPLICE 6 6MFO CABLE(S) TO DUPLEX CABLE IN SPLICE TRAY. PURNISH AND INSTALL 2 FIBER DISTRIBUTION OF THE CABLES OF THE SMITCH CABLES WITH SC (OR) LC CONNECTORS PER AGENCY STANDARD, CONNECT THESE CABLES TO FIBER SMITCH.
- FURNISH AND INSTALL AGENCY APPROVED FIBER OPTIC SPLICE ENCLOSURE IN SPLICE VAULT PER AGENCY SPECIAL PROVISIONS. (USION SPLICE 2-STRAND SMFO CABLE(S) TO CALTRANS 72 SMFO ABLE(S) IN SPLICE ENCLOSURE.

- URNISH AND INSTALL ACTELIS ETHERNET OVER COPPER SWITCH

LEGEND:

183	EXISTING TRAFFIC SIGNAL CONTROLLER CABINET
0	EXISTING PULL BOX
_	PROPOSED PULL BOX

EE.3 EXISTING SPLICE VAULT EXISTING CONDUIT

PROPOSED WIRELESS RADIO ANTENNA EXISTING TRAFFIC SIGNAL

SHEET INDEX

SHEET TITLE	SHEET NUMBER
TITLE SHEET	1
PROPOSED COMMUNICATION SCHEMATIC	2
COMMUNICATIONS BLOCK DIAGRAM	3
COMMUNICATIONS DESIGN	4-13

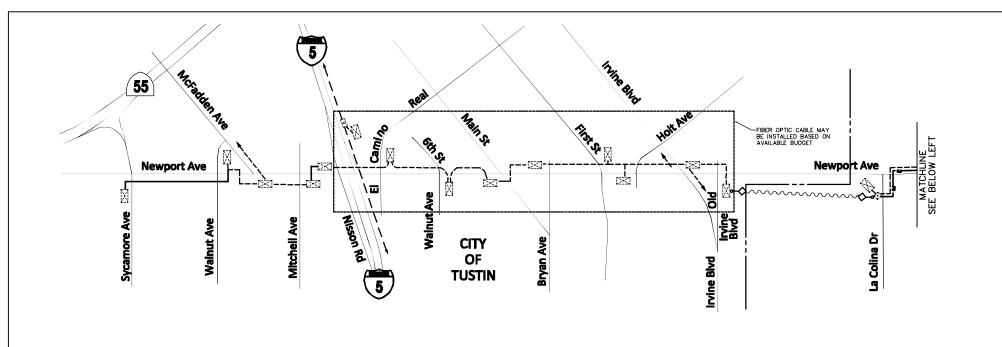
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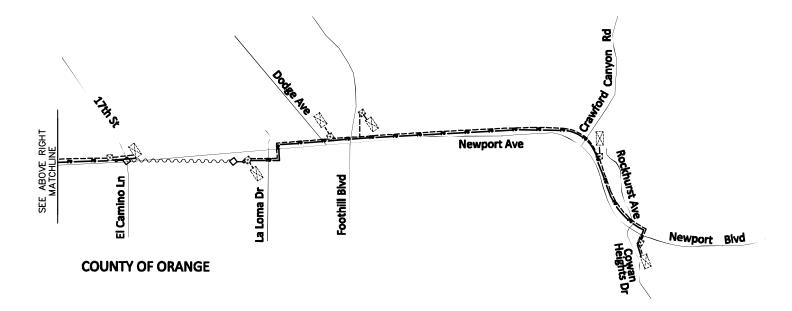
NEWPORT AVENUE/BOULEVARD (NORTH) RTSSP

TITLE SHEET COMMUNICATION PLANS

CALE: NTS DESIGN: CC PROJECT NO. RAWN: RP NAME/SIGNATURE

Gilbert Rodarte





EXISTING CONTROLLER CABINET

EXISTING COPPER SIC SPLICE CABINET

EXISTING SPLICE VAULT

EXISTING CONDUIT ALIGNMENT WITH COPPER SIC

EXISTING CONDUIT ALIGNMENT WITH FIBER SIC

PROPOSED FIBER SIC IN EXISTING CONDUIT

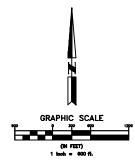
CITY/COUNTY LIMITS

PROPOSED WIRELESS ANTENNA (POLE MOUNTED)

PROPOSED CONDUIT ALIGNMENT WITH COPPER SIC

PROPOSED WIRELESS COMMUNICATION

LEGEND





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As-Built Drawings

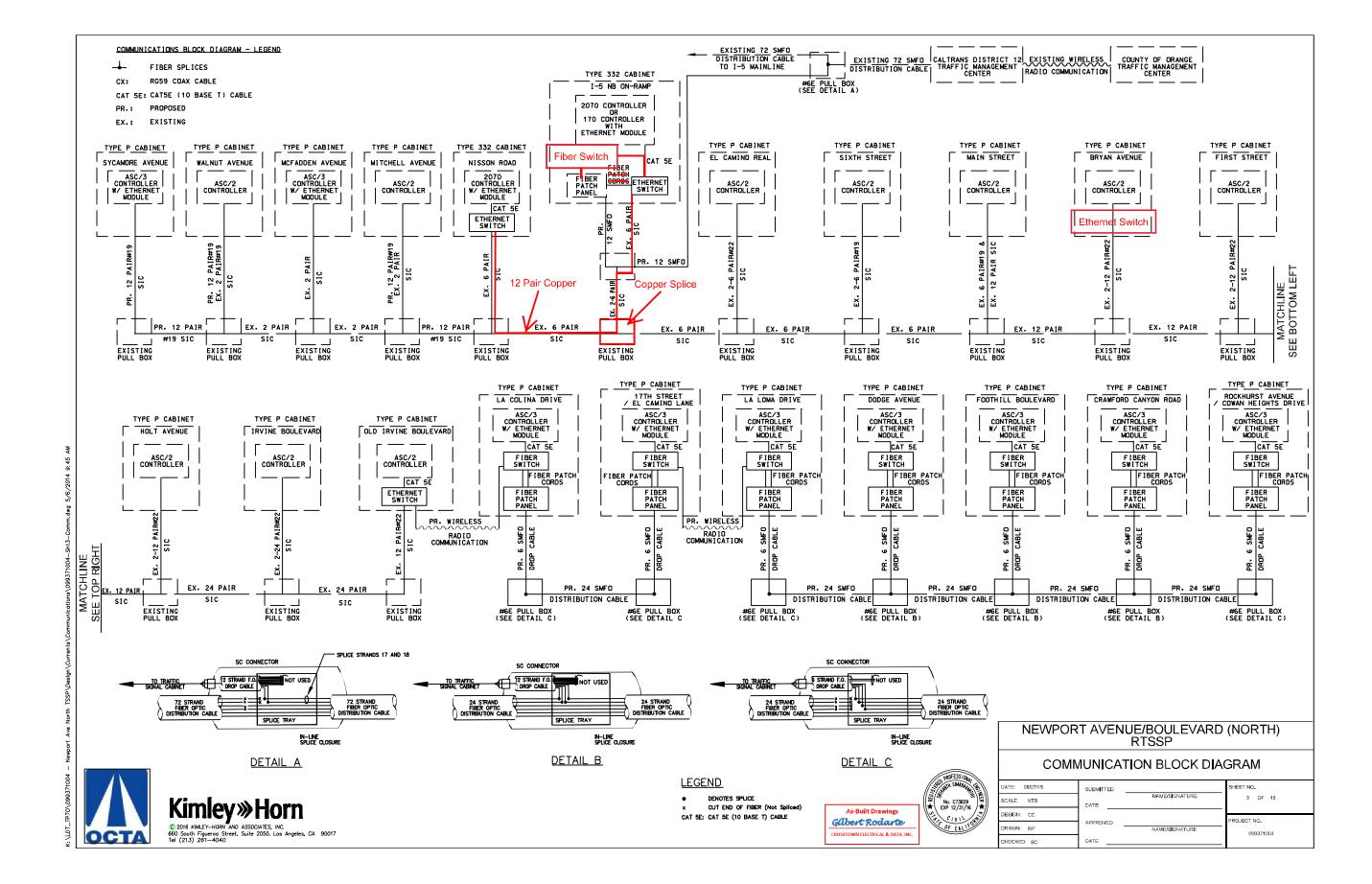
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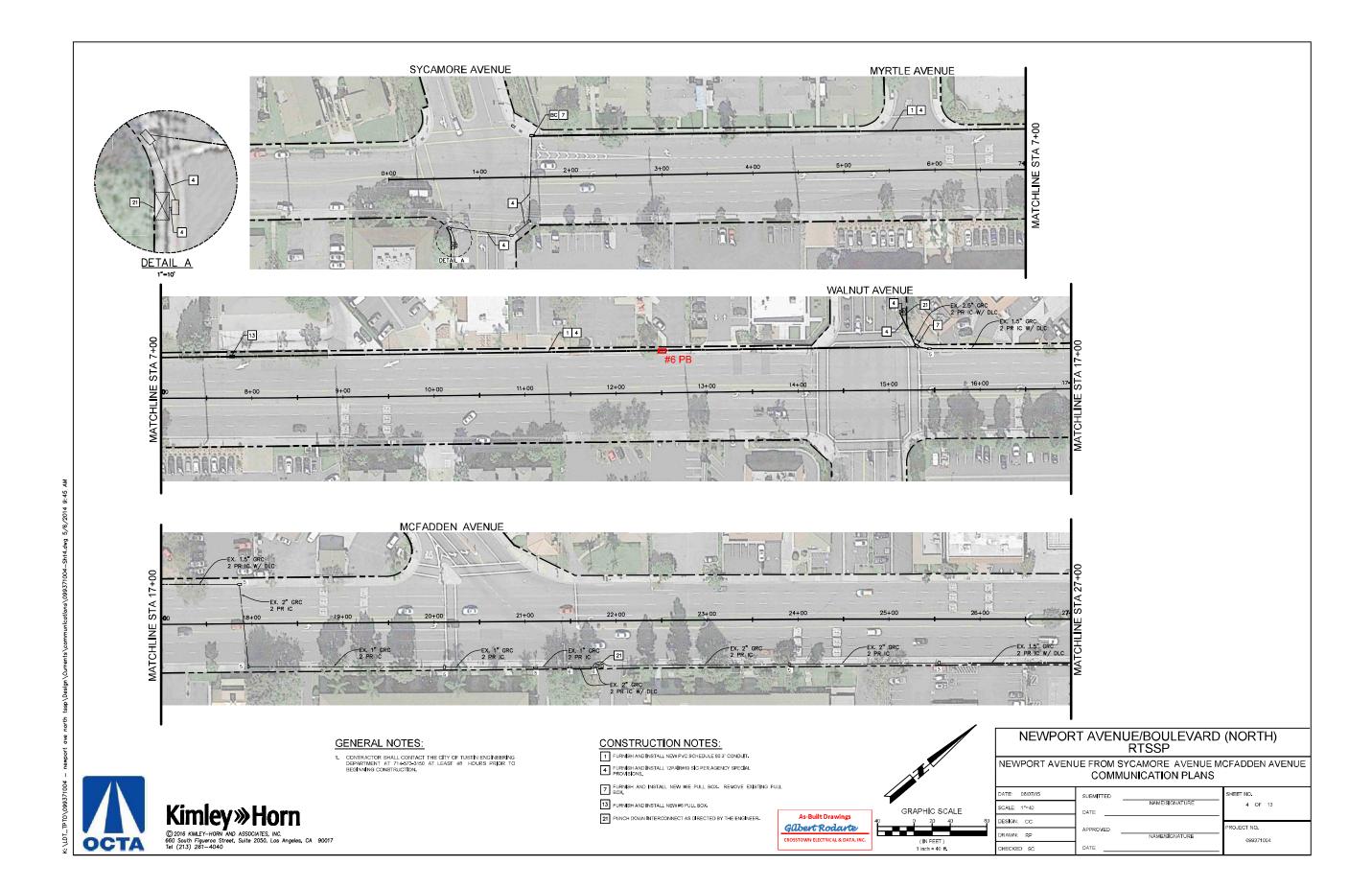
CROSSTOWN ELECTRICAL & DATA, INC.

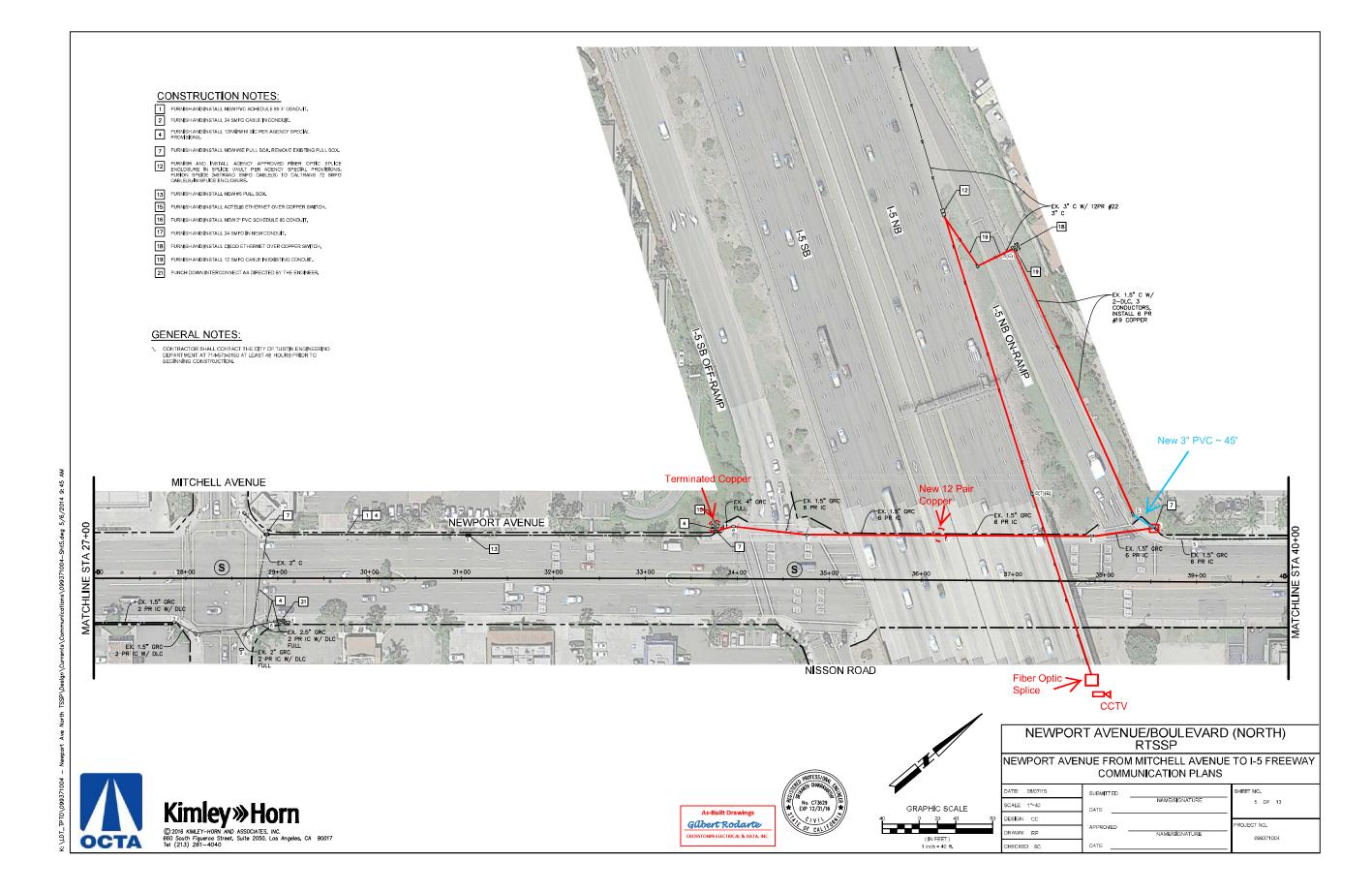
NEWPORT AVENUE/BOULEVARD (NORTH) RTSSP

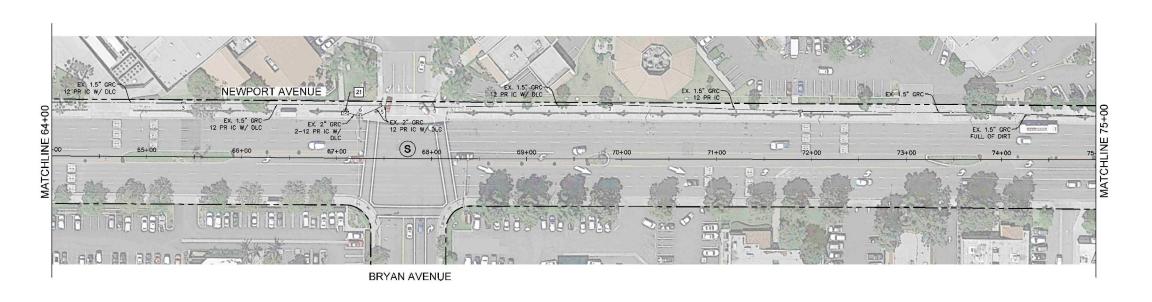
PROPOSED COMMUNICATION SCHEMATIC COMMUNICATION PLANS

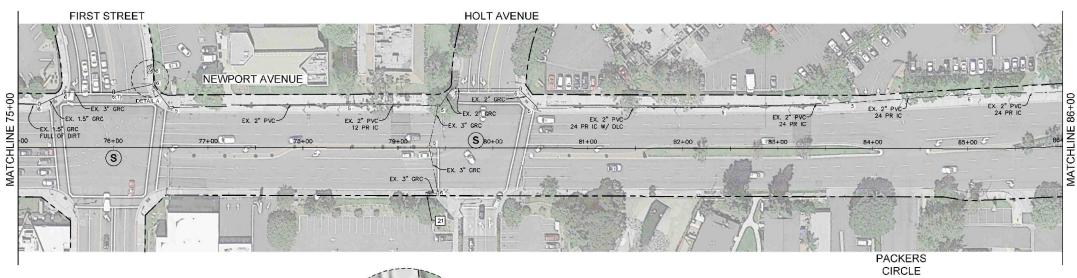
ATE: 08/07/15	SUBMITTED		SHEET NO.
CALE: 1"=40	DATE	NAME/SIGNATURE	2 OF 13
ESIGN: CC			PROJECT NO.
RAWN: RP	APPROVED _	NAME/SIGNATURE	099371004
HECKED: SC	DATE		2000, 1004



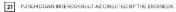


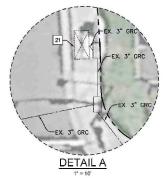






CONSTRUCTION NOTES:



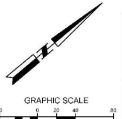


GENERAL NOTES:

. CONTRACTOR SHALL CONTACT THE CITY OF TUSTIN ENGINEERING DEPARTMENT AT 714-573-3150 AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

As-Built Drawings

Gilbert Rodarte



(IN FEET) 1 inch = 40 fL

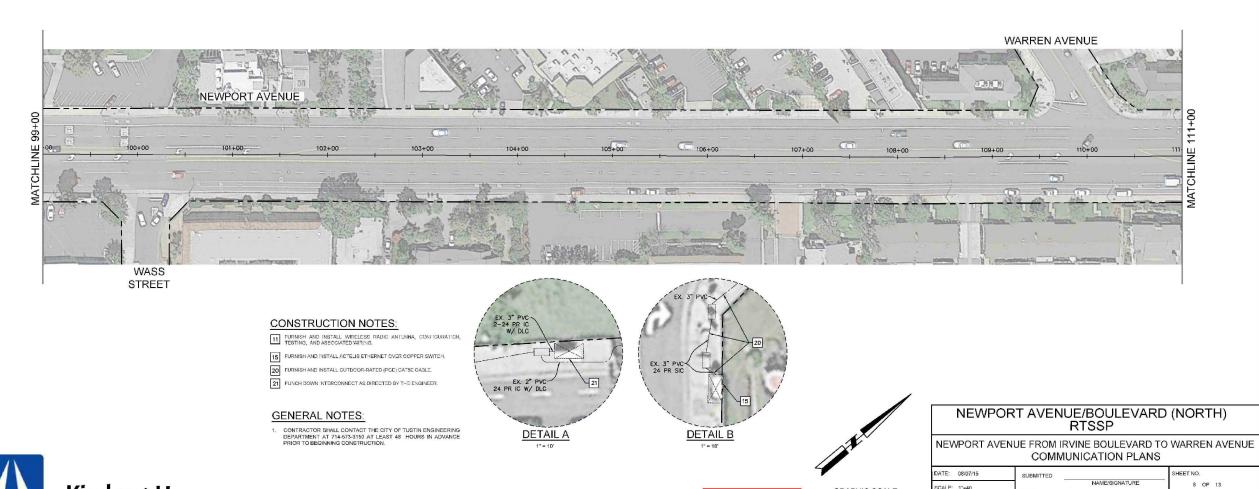
NEWPORT AVENUE/BOULEVARD (NORTH) RTSSP

NEWPORT AVENUE FROM BRYAN AVENUE TO PACKERS CIRCLE COMMUNICATION PLANS

DATE: 08/07/15	SUBMITTED		SHEET NO.	
SCALE: 1"=40	DATE	NAME/SIGNATURE	7 OF 13	
DESIGN: CC				
DRAWN: RP	APPROVED	NAME/SIGNATURE	PROJECT NO. 099371004	
CHECKED: SC	DATE		099371004	



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As-Built Drawings Gilbert Rodarte SCALE: 1"=40

CHECKED: SC

(IN FEET) 1 inch = 40 fL

PROJECT NO.

099371004

NAME/SIGNATURE



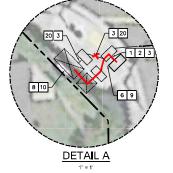
GENERAL NOTES:

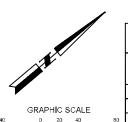
CONTRACTOR SHALL CONTACT THE ORANGE COUNTY ROAD DEPARTMENT AT 714-245-4570 AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

CONSTRUCTION NOTES:

- 2 FURNISH AND INSTALL 24 SMFO CABLE IN CONDUIT.
- 3 FURNISH AND INSTALL 6 SMFO CABLE IN CONDUIT.
- 6 FURNISH AND INSTALL NEW #6E PULL BOX ADJACENT TO EXISTING PULL BOX. PROVIDE 40 FEET OF SLACK FOR THE FIBER OPTIC CABLE IN PULL BOX AND CONTROLLER CABINET.
- 7 FURNISH AND INSTALL NEW#6E PULL BOX, REMOVE EXISTING PULL BOX.
- B FURNISH AND INSTALL FIBER SWITCH PER AGENCY SPECIAL PROVISIONS.

- 111 FURNISH AND INSTALL WIRELESS RADIO ANTENNA, CONFIGURATION, TESTING, AND ASSOCIATED WIRING.





NEWPORT AVENUE/BOULEVARD (NORTH) RTSSP

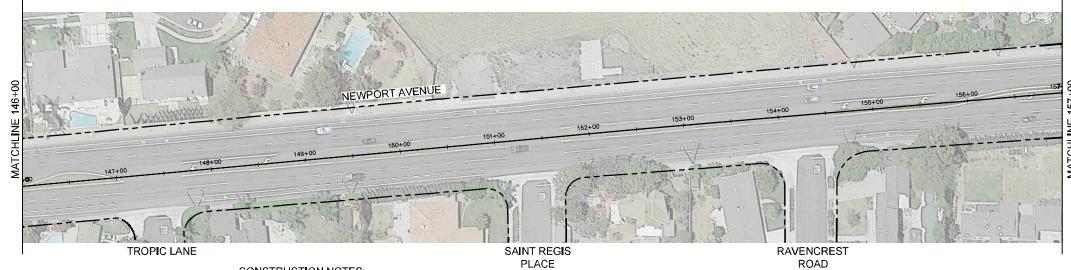
NEWPORT AVENUE FROM TUSTIN PINES WAY TO SKYLINE DRIVE COMMUNICATION PLANS

DATE: 08/07/15	SUBMITTED		SHEET NO.
SCALE: 1"=40	DATE	NAME/SIGNATURE	9 OF 13
DESIGN: CC			PROJECT NO.
DRAWN: RP	APPROVED	NAME/SIGNATURE	099371004
CHECKED: SC	DATE		55557 1004



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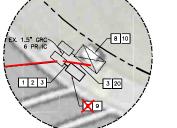
20 FURNISH AND INSTALL OUTDOOR-RATED (POE) CATSE CABLE.



GENERAL NOTES:

- CONSTRUCTION NOTES:

 1 FURNISH AND INSTALL NEW PVC SCHEDULE 80 3° CONDUIT.
- FURNISH AND INSTALL 24 SMFO CABLE IN CONDUIT.
- FURNISH AND INSTALL NEW #8E PULL BOX ADJACENT TO EXISTING PULL BOX PROVIDE 40 FEET OF SLACK FOR THE FIBER OPTIC CABLE IN PULL BOX AND CONTROLLER CABINET.
- 7 FURNISH AND INSTALL NEW #6E PULL BOX, REMOVE EXISTING PULL BOX.
- 8 FURNISH AND INSTALL FIBER SWITCH PER AGENCY SPECIAL PROVISIONS.



Gilbert Rodarte

NEWPORT AVENUE/BOULEVARD (NORTH) RTSSP

NEWPORT AVENUE FROM 17 STREET TO RAVENCREST ROAD COMMUNICATION PLANS

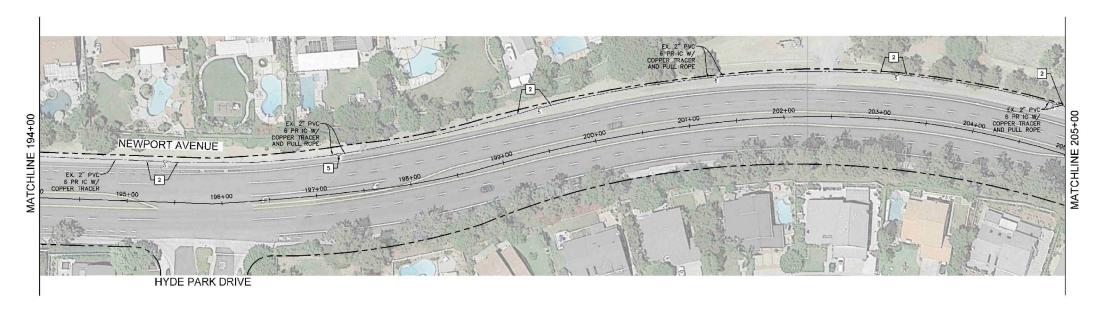
DATE: 08/07/15	SUBMITTED		SHEET NO.
SCALE: 1"=40	DATE	NAME/SIGNATURE	10 OF 13
DESIGN: CC			PROJECT NO.
DRAWN: RP	APPROVED .	NAME/SIGNATURE	099371004
CHECKED: SC	DATE		2000/1004



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111 FURNISH AND INSTALL WIRELESS RADIO ANTENNA, CONFIGURATION. TESTING, AND ASSOCIATED WIRING. 20 FURNISH AND INSTALL OUTDOOR-RATED (POE) CATSE CABLE.

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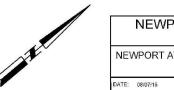


CONSTRUCTION NOTES:

- 5 FURNISH AND INSTALL 2-2 INCH PVC BUSHINGS
- 14 FURNISH AND INSTALL NEW PULL BOX LID.



CONTRACTOR SHALL CONTACT THE ORANGE COUNTY ROAD DEPARTMENT AT 714-245-4670 AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.



(IN FEET) 1 inch = 40 fL

NEWPORT AVENUE/BOULEVARD (NORTH) RTSSP

As-Built Drawings Gilbert Rodarte

NEWPORT AVENUE FROM LEMON HILL DRIVE TO HYDE PARK DRIVE COMMUNICATION PLANS

DATE: 08/07/15	SUBMITTED		SHEET NO.
SCALE: 1"=40	DATE	NAME/SIGNATURE	12 OF 13
DESIGN: CC			PROJECT NO.
DRAWN: RP	APPROVED	NAME/SIGNATURE	099371004
CHECKED: SC	DATE		U993/1004



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