

# INSTALLATION OF FIBER OPTIC/ ETHERNET COMMUNICATION SYSTEM

MAIN STREET CORRIDOR; FROM INDUSTRIAL  
BOULEVARD TO NIRVANA AVENUE IN THE  
CITY OF CHULA VISTA, CALIFORNIA CIP NO.  
TRF 0404 / FEDERAL NO. HSIPL-5203(047)

## GENERAL NOTES:

- ALL EXISTING UTILITIES AND STRUCTURES REPORTED BY OWNERS OR OTHERS, AND THOSE SHOWN ON RECORDS EXAMINED ARE INDICATED ON THE PLANS WITH THEIR APPROXIMATE LOCATION AND EXTENT. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ON RECORD. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THOSE FACILITIES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THESE FACILITIES BEFORE STARTING WORK.

STREET LIGHTS, TRAFFIC SIGNALS, (CITY OF CHULA VISTA)	619-397-6163
STORM DRAIN, SEWER (CITY OF CHULA VISTA)	619-397-6009
WATER (SWEETWATER AUTHORITY)	619-420-1413
(OTAY WATER DISTRICT)	619-670-2222
TELEPHONE (AT&T)	619-266-4725
GAS & ELECTRIC (SDG&E)	858-654-8339
CABLE T.V. (COX COMMUNICATIONS - SAN DIEGO)	619-266-5220
(MEDIA3 COMMUNICATIONS)	619-426-3114
(CROWN CASTLE COMMUNICATIONS)	626-320-0996
(NOTIFICATION TO BE 48 HOURS PRIOR TO STARTING WORK.)	

### IMPORTANT NOTICE

SECTION 4216/ 4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND

### SERVICE ALERT

TOLL FREE 811  
TWO WORKING DAYS BEFORE YOU DIG

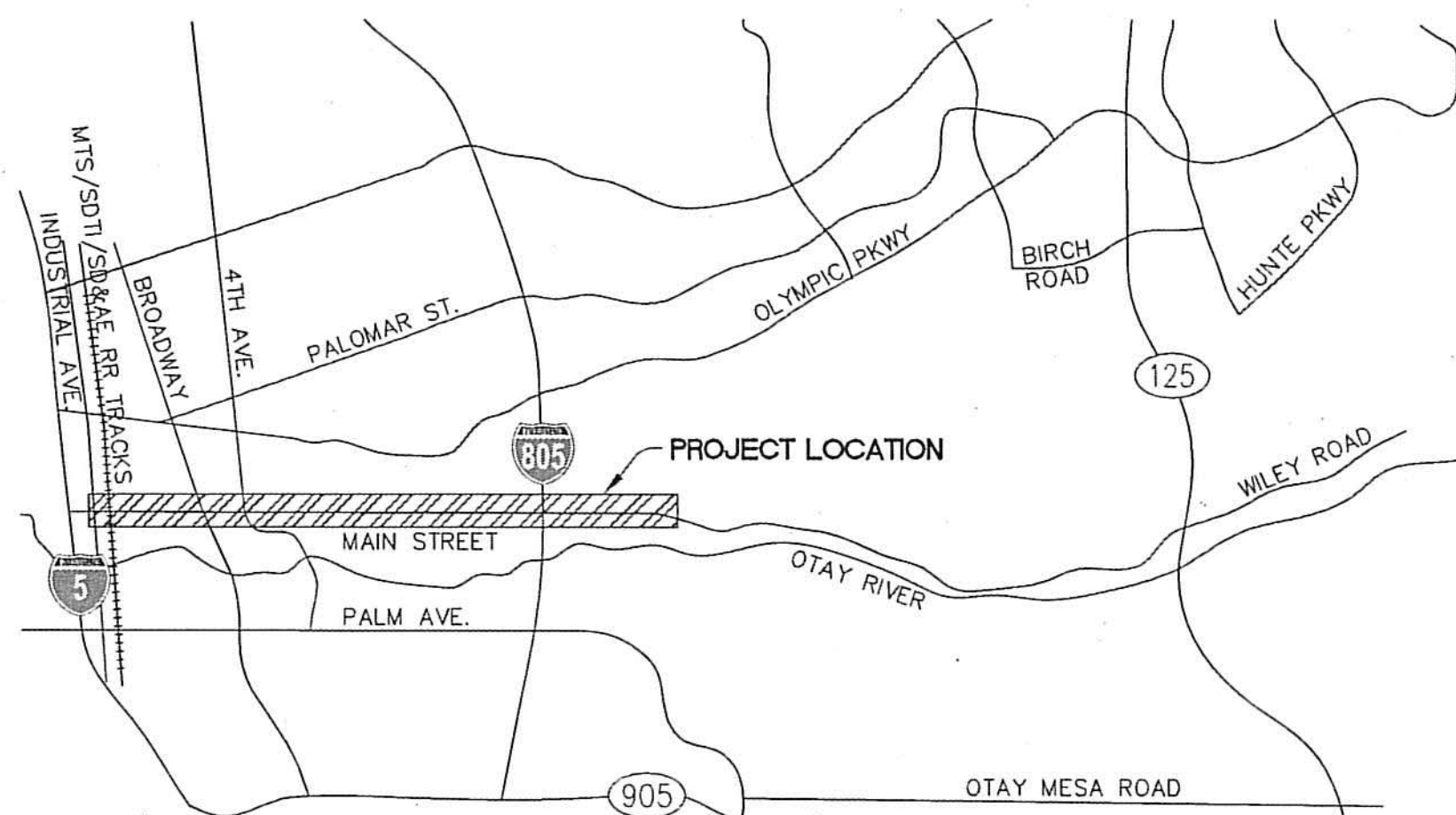
- CONTRACTOR SHALL NOTIFY THE OFFICE OF THE CITY ENGINEER AND TRAFFIC SIGNAL SHOP 48 HOURS (2 WORKING DAYS) PRIOR TO START OF WORK. CONTRACTOR SHALL GIVE ONE WORKING DAY NOTICE ON ALL CALLS FOR INSPECTION. ANY WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL AT NO COST TO THE CITY. CONSTRUCTION INSPECTION EMAIL: [ConstructionInspection@chulavista.gov](mailto:ConstructionInspection@chulavista.gov) TRAFFIC SIGNAL MAINTENANCE SHOP: 619-397-6163
- AS BUILT DRAWINGS: A SET OF BLUELINE PRINTS AND A SET OF SPECIFICATIONS SHALL BE KEPT AT ALL TIMES ON WHICH ALL CHANGES OR VARIATIONS IN THE WORK, INCLUDING ALL UTILITIES FOUND, ARE TO BE RECORDED AND PLOTTED ACCURATELY.
- CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS INCLUDES SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER AND THE CITY REPRESENTATIVES FROM ANY AND ALL LIABILITY, REAL AND/OR ALLEGED, ON CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
- THE PERPETUATION OF EXISTING HORIZONTAL AND VERTICAL CONTROL AND PROPERTY MONUMENTS WILL BE DONE BY THE CITY SURVEYING GROUP UNLESS THERE IS A BID ITEM IN THE CONTRACT PROPOSAL FOR THE CONTRACTOR TO DO IT. ANY PROPERTY MONUMENTS DESTROYED BY THE CONTRACTOR'S NEGLIGENCE MUST BE REPLACED AT HIS/HER OWN EXPENSE. CITY BENCHMARKS AND INTERSECTION TIES WILL BE REFERENCED AND REPLACED BY THE CITY SURVEYING GROUP.
- THE LOCATION AND ELEVATION OF EXISTING IMPROVEMENTS TO BE MET (OR AVOIDED) BY THE WORK TO BE DONE SHALL BE CONFIRMED BY THE CONTRACTOR'S FIELD MEASUREMENTS PRIOR TO THE CONSTRUCTION OF NEW WORK. THE CONTRACTOR SHALL REPORT TO THE OWNER ANY DISCREPANCIES BETWEEN HIS/HER MEASUREMENTS AND THESE PLANS.
- CONTRACTOR SHALL PROTECT IN PLACE ALL THOSE IMPROVEMENTS NOT SHOWN TO BE REMOVED, RELOCATED, ADJUSTED, OR REPLACED.
- CONTRACTOR SHALL REPLACE AT NO COST TO THE CITY ANY TRAFFIC SIGNAL EQUIPMENT INCLUDING LOOPS THAT ARE DAMAGED DURING CONSTRUCTION.

## PRECONSTRUCTION CONFERENCE

THE CONTRACTOR SHALL NOT BEGIN ANY WORK ON THIS PROJECT UNTIL A PRECONSTRUCTION CONFERENCE IS HELD WITH THE ENGINEER OF WORK, AND THE CONSTRUCTION CITY INSPECTOR.

## AS BUILTS:

THE CONTRACTOR SHALL FURNISH TO THE ENGINEER OF WORK, AS-BUILT PLANS FOR ALL NEW IMPROVEMENTS SHOWN ON THESE PLANS FOR SUBMITTAL TO THE CITY ENGINEER FOR APPROVAL ACCORDING TO SECTION 15.04.140 OF THE CHULA VISTA CODE. A SET OF APPROVED PLANS AND A SET OF SPECIFICATIONS SHALL BE KEPT ON-SITE AT ALL TIMES ON WHICH ALL CHANGES OR VARIATIONS IN THE WORK, INCLUDING ALL UTILITIES FOUND ARE TO BE RECORDED AND PLOTTED ACCURATELY BY THE CONTRACTOR.



VICINITY MAP  
NO SCALE

## SHEET INDEX

DRAWING NO.	DESCRIPTION
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02	SPECIAL NOTES
03-14	INTERCONNECT PLANS
15	COMMUNICATION SCHEMATIC
16-24	FIBER SPLICE DETAILS
25-27	DETAILS

## LEGEND

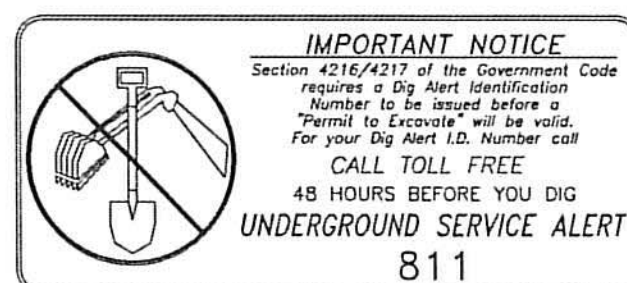
	EXISTING MANHOLE	FOC	FIBER OPTIC CABLE
	EXISTING SEWER MANHOLE	PVC	POLYVINYL CHLORIDE
	EXISTING TRAFFIC SIGNAL POLE	SDG&E	SAN DIEGO GAS AND ELECTRIC
	EXISTING WATER MAIN	SMFO	SIGNAL MODE FIBER OPTIC
	EXISTING SEWER MAIN	STA	CENTERLINE STATIONING
	EXISTING STORM DRAIN	R/W	RIGHT OF WAY
	EXISTING GAS MAIN	CV TS	CITY OF CHULA VISTA TRAFFIC SIGNAL CONDUIT
	EXISTING TELEPHONE LINE	PCC	PORTLAND CEMENT CONCRETE
	EXISTING UNDERGROUND ELECTRICAL LINE	AC	ASPHALTIC CONCRETE
	EXISTING CABLE TV LINE	HDPE	HIGH DENSITY POLYETHYLENE
	EXISTING FENCE LINE	TYP	TYPICAL
	EXISTING DUAL PVC CONDUIT		INSTALL CONDUIT INTO EXISTING PULL BOX.
	EXISTING FIBER OPTIC CABLE		CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED
	PROPOSED FIBER OPTIC CABLE		
	PROPOSED JUMPER FIBER OPTIC-12 STRAND SMFO BRANCH CABLE IN EXISTING CONDUIT		
	PROPOSED SPLICE VAULT		
	PROPOSED 6E PULL BOX		
	EXISTING SPLICE VAULT		
	EXISTING 6E PULL BOX		
	SINGLE FIBER TERMINATED		



RESPONSIBLE CHARGE OF WORK: *Jon M. Collins* DATE: 11/20/2019  
JON M. COLLINS, P.E. RCE NO. 62090  
CIVIL ENGINEER

Kimley»Horn

KIMLEY-HORN & ASSOCIATES, INC.  
401 B STREET SUITE 600  
SAN DIEGO CA 92101  
(619) 234-9411



## WORK TO BE DONE:

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE IN ACCORDANCE WITH THE PLANS. THE WORK TO BE DONE CONSISTS OF THE ITEMS INDICATED UNDER THE "LEGEND" SHOWN BELOW AND THE FOLLOWING DOCUMENTS:

- 2012 CITY OF CHULA VISTA SUBDIVISION MANUAL.
- STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2012 EDITION ("GREENBOOK").
- 2012 REGIONAL SUPPLEMENT TO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTIONS ("REGIONAL SUPPLEMENT").
- SAN DIEGO REGIONAL STANDARD DRAWINGS ("SDRSD"), DATED SEPTEMBER 2012.
- CITY OF CHULA VISTA STANDARD SPECIAL PROVISIONS (CV SPECIAL PROVISIONS), DATED APRIL 2019.
- CITY OF CHULA VISTA DEPARTMENT OF ENGINEERING AND CAPITAL PROJECTS DESIGN AND CONSTRUCTION STANDARD DRAWINGS 2017 (CVSD).
- CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS 2015 ("CALTRANS STANDARD PLANS").
- CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS 2015 ("CALTRANS STANDARD SPECIFICATIONS").
- 2014 CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, REVISION 2 (CA-MUTCD).

ALL AS ADOPTED BY THE CITY OF CHULA VISTA ARE MADE A PART OF THE SPECIFICATIONS. ALL REFERENCES ARE TO BE MADE PART OF THESE PLANS. ANY CHANGES OR REVISIONS THEREFROM, SHALL BE APPROVED BY THE CITY OF ENGINEER, OR HIS DESIGNEE, PRIOR TO ANY REQUEST FOR INSPECTION.

WORK INCLUDES INSTALLATION OF NEW FIBER OPTIC CABLES, TRENCHING, TRENCH REPAIR, SIDEWALK REPAIR, AND VAULT INSTALLATION.

## UTILITY NOTES:

- THE LOCATIONS OF ALL UTILITIES SHOWN HEREON ARE BASED ON FACILITY MAPS PROVIDED BY THE RESPECTIVE UTILITY COMPANIES AND ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES IN THE FIELD TO ENSURE THAT DAMAGE OR INTERRUPTIONS OF SERVICE ARE PREVENTED.
- CONDUITS FOR ALL TELECOMMUNICATIONS UTILITIES SHOWN (CATV, FO, T) MAY CONTAIN FIBER OPTIC CABLES.
- CONTRACTOR TO PROTECT ALL SWEETWATER FACILITIES LOCATED WITHIN THE PROJECT IMPROVEMENTS AREA. ALL WATER METERS, METER BOXES, METER VAULTS, FIRE HYDRANTS, GATE VALVES, GATE WELLS, AND SERVICE LINES TO BE PROTECTED IN PLACE.
- CONTRACTOR TO MAINTAIN A MINIMUM PARALLEL SEPARATION OF 5' FROM TRENCHING TO SWEETWATER FACILITIES.
- ALL UTILITIES TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED ON PLANS.

INSTALLATION OF FIBER OPTIC/  
ETHERNET COMMUNICATION SYSTEM (TRF0404)

COVER SHEET

UTILITY NOTE: ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.			CITY OF CHULA VISTA ENGINEERING AND CAPITAL PROJECTS 276 FOURTH AVENUE CHULA VISTA, CA 91910 <a href="http://WWW.CHULAVISTA.CA.GOV">WWW.CHULAVISTA.CA.GOV</a>	SUBSET SHEET ID: CV-01
REVIEWED BY: <i>Rosina Constanza</i>	DATE: 11/20/2019	APPROVED BY: <i>Jose Luis Gomez</i>	DATE: 11/20/2019	DRAWING NO. 19026-01
ROSINA CONSTANZA, P.E. SENIOR CIVIL ENGINEER		JOSE LUIS GOMEZ, P.E. PLS-PRINCIPAL CIVIL ENGINEER		

REVISION I. BY / DATE APP'D / DATE  
DESIGNED BY: CMJ DBA JMC  
CHECKED BY: JMC  
SCALE: HORIZONTAL: 1"=100' VERTICAL: 1"=10'  
DATE: 11/20/2019  
PROJECT: MAIN STREET CORRIDOR FROM INDUSTRIAL AVENUE TO NIRVANA AVENUE  
DRAWING NO.: TRF0404