

GENERAL NOTES

1. ALL EXISTING UTILITIES AND STRUCTURES REPORTED BY OWNERS OR OTHERS, AND THOSE SHOWN ON RECORDS EXAMINED ARE INDICATED ON THE PLANS WITH THEIR APPROXIMATE LOCATIONS AND EXTENTS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED 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 THE FOLLOWING FACILITIES BEFORE STARTING WORK:

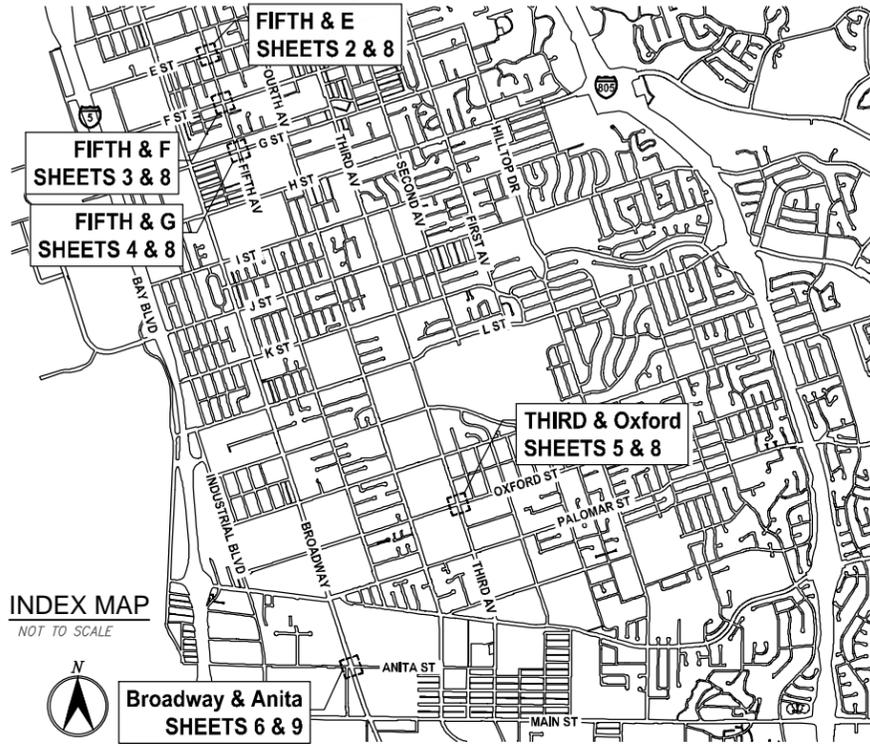
STREET LIGHTS, TRAFFIC SIGNALS (CITY OF CHULA VISTA)	619-397-6163
STORM DRAINS, SEWER (CITY OF CHULA VISTA)	619-397-6009
WATER (SWEETWATER AUTHORITY)	619-409-6751
TELEPHONE (AT&T)	619-266-4725
GAS & ELECTRIC (SDG&E)	858-654-8339
CABLE T.V. (COX COMMUNICATIONS - SAN DIEGO)	619-266-5220
(MEDIA3 COMMUNICATIONS)	619-426-3114
(CROWN CASTLE COMMUNICATIONS)	626-320-0996

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 8-1-1 TWO WORKING DAYS BEFORE YOU DIG.
2. CONTRACTOR SHALL NOTIFY THE OFFICE OF THE CITY ENGINEER AND THE 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 THE BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL AT NO COST TO THE CITY.
CONSTRUCTION INSPECTION CALL 619-397-6128
TRAFFIC SIGNAL MAINTENANCE SHOP 619-397-6163
3. CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE 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 THE OWNER AND THE CITY REPRESENTATIVES HARMLESS FROM ANY AND ALL LIABILITY, REAL AND/OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
4. CONTRACTOR SHALL PROTECT IN PLACE ALL THOSE IMPROVEMENTS NOT SHOWN TO BE REMOVED, RELOCATED, ADJUSTED OR REPLACED. VEGETATION SHALL BE PROTECTED IN PLACE TO THE EXTENT PRACTICABLE.
5. LOT LINES FROM RECORD MAPS WERE DRAWN APPROXIMATELY BASED ON DISTANCES AND ANGLES FROM RECORD MAPS. NO DEEDS/LEGAL DESCRIPTIONS WERE REVIEWED. ALSO, NO EFFORT HAS BEEN MADE TO RECONCILE FOUND MONUMENTS WITH LOT LINES OR ASSESSOR'S PARCEL LINES. MONUMENTS ARE NOT TO BE ASSUMED TO BE AT LOT CORNERS OR ASSESSOR'S PARCEL CORNERS.

TRAFFIC SIGNAL MODIFICATIONS AT FIVE INTERSECTIONS

BROADWAY/ANITA STREET; THIRD AVENUE/OXFORD STREET;
FIFTH AVENUE/"E" STREET; FIFTH AVENUE/"F" STREET; FIFTH AVENUE/"G" STREET
CIP No. TRF0407 | FEDERAL No. HSIPL-5203(048)



LEGEND

IMPROVEMENT	STANDARD DWG. NO.	SYMBOL
1. SAFETY LIGHTING/LUMINAIRE LED 130 WATT	PER PLAN	[Symbol]
2. TRAFFIC SIGNAL STANDARD, MAST ARM, RSNS, LED LUMINAIRE CAMERA, VEHICLE INDICATIONS, CAMERA, EVPE, AND SIGN	PER PLAN, CALTRANS STD PLANS	[Symbol]
3. EMERGENCY VEHICLE PREEMPTION (EVPE)	PER PLAN	[Symbol]
4. REFLECTORIZED STREET NAME SIGNS (RSNS)	CHULA VISTA SPECS	[Symbol]
5. PEDESTRIAN INDICATION	PER PLAN	[Symbol]
6. 332L CONTROLLER CABINET WITH 2070E CONTROLLER	CALTRANS & CHULA VISTA SPECS.	[Symbol]
7. SERVICE POINT	PER PLAN	[Symbol]
8. PULL BOX	CALTRANS STD PLAN ES-8A	[Symbol]
9. METER PEDESTAL SDG&E APPROVED	PER PLAN CHULA VISTA SPECS.	[Symbol]
10. VEHICLE DETECTION ZONE (LOOP)	PER PLAN	[Symbol]
11. VEHICLE DETECTION ZONE (VIDEO)	PER PLAN	[Symbol]
12. CONDUIT	PER PLAN	[Symbol]
13. EXISTING CONDUIT	PER PLAN	[Symbol]
14. PAVEMENT MARKING LEGEND	PER PLAN	[Symbol]
15. CURB RAMP	GS1-08	[Symbol]
19. RIGHT-OF-WAY LINE		[Symbol]
20. PROPOSED PCC PAVEMENT		[Symbol]
21. EXISTING TREES/VEGETATION ADJACENT TO SIDEWALK		[Symbol]
22. EXISTING WATER LINE		[Symbol]
23. EXISTING TELEPHONE LINE		[Symbol]
24. EXISTING GAS LINE		[Symbol]
25. EXISTING FIBER OPTIC		[Symbol]
26. EXISTING SEWER LINE		[Symbol]
27. EXISTING COMMUNICATION LINE		[Symbol]
28. EXISTING UNDERGROUND ELECTRICAL		[Symbol]
29. EXISTING OVERHEAD WIRES		[Symbol]
30. EXISTING STORM DRAIN		[Symbol]
31. EXISTING UTILITY POLE		[Symbol]
32. EXISTING WATER VALVE & FIRE HYDRANT		[Symbol]
33. EXISTING MANHOLE		[Symbol]

PRE-CONSTRUCTION CONFERENCE

THE CONTRACTOR SHALL NOT BEGIN ANY WORK ON THIS PROJECT UNTIL A PRE-CONSTRUCTION CONFERENCE IS HELD WITH THE ENGINEER OF WORK, AND THE CITY PUBLIC WORKS 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 MUNICIPAL CODE. A SET OF BLUELINE PRINTS 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.

SPECIFICATIONS

- THE IMPROVEMENTS SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND THE FOLLOWING:
- 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 CONSTRUCTION ("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 (CVSD), DATED NOVEMBER 2017
 - CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS 2015 ("CALTRANS STANDARD PLANS")
 - CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS 2015 ("CALTRANS STANDARD SPECIFICATIONS")
 - 2014 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES ("MUTCD")

TRAFFIC SIGNAL CONSTRUCTION NOTES

- NEW CONSTRUCTION IS SHOWN IN BOLD LINES AND EXISTING IMPROVEMENTS ARE SHOWN IN REGULAR LINES. ALL OTHER REMOVED EQUIPMENT SHALL REMAIN IN PLACE.
- CONTRACTOR SHALL CONTACT THE CITY'S TRAFFIC DEVICE TECHNICIAN SUPERVISOR AT (619) 397-6163 TO DETERMINE WHAT EQUIPMENT IS TO BE SALVAGED AND DELIVERY LOCATION. ALL OTHER REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
- TRAFFIC SIGNAL STANDARDS AND EQUIPMENT SHALL BE INSTALLED TO ALLOW FOR A FOUR FEET (4') ADA CLEARANCE. PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED WITHIN FIVE FEET (5') OF PEDESTRIAN RAMP LANDINGS. SEE DETAIL "A" ON SHEET 7.
- ALL PULLBOXES SHOWN IN BOLD SHALL BE FURNISHED AND INSTALLED TYPE #6 PULLBOX, UNLESS NOTED OTHERWISE.
- ALL LOCATIONS: REMOVE EXISTING STANDARD AND MAST ARM AND REPLACE WITH NEW STANDARD AND EQUIPMENT PER POLE SCHEDULE AT NEW LOCATION ON NEW FOUNDATION. FURNISH AND INSTALL NEW LED VEHICLE AND PEDESTRIAN INDICATIONS PER PLAN AND SPECIFICATIONS. CONTRACTOR SHALL ENSURE THAT THE CONDITION OF ALL REUSED EQUIPMENT IS MAINTAINED AND IN GOOD WORKING ORDER. ANY EQUIPMENT SPECIFIED FOR REUSE THAT IS NOT KEPT IN SUCH CONDITIONS SHALL BE REPLACED IN KIND AT CONTRACTOR'S EXPENSE.
- ALL TRAFFIC SIGNAL CONDUITS SHALL BE PVC SCHEDULE 80, 2" MINIMUM AND ALL STREET LIGHT CONDUITS SHALL BE PVC SCHEDULE 80, 2" MINIMUM. ALL TRAFFIC SIGNAL CONDUITS THAT CROSS A STREET SHALL BE SCHEDULE 80, 3" MINIMUM, AND ALL STREET LIGHT CONDUITS THAT CROSS A STREET SHALL BE PVC SCHEDULE 80, 2" MINIMUM. NO STEEL CONDUITS ARE ALLOWED. LB FITTINGS SHALL NOT BE USED ON THIS PROJECT.
- REMOVE ALL UN-USED PULL BOXES. PULL OUT EXISTING CABLES/CONDUCTORS, INSTALL NEW SIGNAL CABLES/CONDUCTORS AND RE-PHASE AS SHOWN ON PLANS.
- TRAFFIC SIGNAL CABLES AND CONDUCTORS: USE CABLES WITH THE CORRESPONDING NUMBER OF CONDUCTORS AS SHOWN IN THE CONDUCTOR SCHEDULE. PROVIDE A MINIMUM OF SIX (6) SPARE CONDUCTORS TO EACH POLE. USE THREE (3) CONDUCTOR CABLE FOR ALL PEDESTRIAN PUSH BUTTONS. ALL CABLES AND OTHER CONDUCTORS EXCLUDING GROUNDS AND EXISTING SIC SHALL BE UNSPLICED AND SHALL TERMINATE AT THE TERMINAL BOARD OF EACH TRAFFIC SIGNAL STANDARD ONLY. TRAFFIC SIGNAL AND PEDESTRIAN PUSH BUTTON CABLE AND INSULATION SHALL REMAIN INTACT TO TERMINATION POINT.
- ALL VEHICULAR SIGNAL INDICATIONS SHALL BE LED AND 12" IN DIAMETER WITH ABS BACK PLATES AND POLYCARBONATE TUNNEL VISORS. ALL TRAFFIC SIGNAL LUMINAIRES SHALL BE LED.
- PEDESTRIAN SIGNAL INDICATIONS SHALL BE "COUNTDOWN STYLE" LED FILLED FIGURES. PEDESTRIAN PUSH BUTTONS SHALL BE POLARA APS WITH R10-3E SIGN.
- VIDEO DETECTION CAMERA SHALL BE COMPATIBLE WITH THE MAKE AND TYPE OF THE EXISTING AND INSTALLED ON THE SIGNAL MAST ARM. CONTRACTOR SHALL ENSURE THAT A REPRESENTATIVE FROM THE MANUFACTURER OF THE VIDEO DETECTION EQUIPMENT IS PRESENT ON-SITE FOR THE INSTALLATION, SETUP, INITIALIZATION, AND TESTING OF VIDEO DETECTION EQUIPMENT. MOUNTING EQUIPMENT AND HEIGHT SHALL BE PER MANUFACTURERS SPECIFICATIONS.
- REPLACE EXISTING PUSH BUTTONS WITH POLARA APS PUSH BUTTONS AS INDICATED PER PLAN, ACCORDING TO PROJECT SPECIFICATIONS.

UTILITY CONSTRUCTION NOTES

- CONTRACTOR TO PROTECT ALL SWEETWATER FACILITIES LOCATED WITHIN THE PROJECT IMPROVEMENT AREA. ALL WATER MAINS, METER BOXES, METER VAULTS, FIRE HYDRANTS, GATE VALVES, GATE WELLS, AND SERVICE LATERALS TO BE PROTECTED IN PLACE.
- IF SWEETWATER FACILITY UPGRADES ARE REQUIRED DUE TO CONSTRUCTION IMPACTS, CONTRACTOR TO CONTACT SWEETWATER AUTHORITY AS STATED IN THE CONTRACT SPECIFICATIONS.

SHEET INDEX	
SHEET NO.	SHEET TITLE
1	TITLE SHEET
2	TRAFFIC SIGNAL PLANS
3	- FIFTH AVE & "E" STREET
4	- FIFTH AVE & "F" STREET
5	- FIFTH AVE & "G" STREET
6	- THIRD AVE & OXFORD STREET
7	- BROADWAY & ANITA STREET
8	SIGNING, STRIPING & IMPROVEMENT PLANS
9	- NOTES & DETAILS
10	- FIFTH AVENUE & "E" STREET, FIFTH AVENUE & "F" STREET, FIFTH AVENUE & "G" STREET AND THIRD AVENUE & OXFORD STREET
11	- BROADWAY & ANITA STREET

SIGN DIMENSIONS	
SIGN	DIMENSIONS
W3-3	30"x30"



TRAFFIC SIGNAL MODIFICATIONS AT FIVE INTERSECTIONS
TITLE 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.

RESPONSIBLE CHARGE OF WORK: DATE: 12.06.2019
APPROVED BY: DATE: 12.06.2019

JOSE SERRATO P.E. RCE NO. 85461
ASSOCIATE CIVIL ENGINEER

JOSE LUIS GOMEZ P.E., P.L.S.
PRINCIPAL CIVIL ENGINEER

CITY OF CHULA VISTA ENGINEERING AND CAPITAL PROJECTS
276 FOURTH AVENUE
CHULA VISTA, CA 91910
WWW.CHULAVISTA.CA.GOV

DRAWING NO. 18044-1
TOTAL SHEETS: 9
CIP # TRF-0407

DESIGNED BY: JOSE SERRATO
DRAWN BY: JOSE SERRATO
CHECKED BY: R. CONSTANZA

SCALE: HORIZONTAL: N/A VERTICAL: N/A

DATUM: HORIZONTAL: CCS '83 ZONE 6, EPOCH 1991.35 VERTICAL: NAVD88

PROJECT: TRF0407 - Traffic Signal Mod (5 Intersections) - CIP
PRODUCTION: TRF0407 - SHEET 15 OF 15
DATE: 12/06/2019 11:58 AM
PLOT BY: JOSE SERRATO

REFERENCES DWG. NO.:

REVISION 1. BY: DATE APP'D / DATE

CONSTRUCTION RECORD		AS-BUILT	
CONTRACTOR:	SIGNED:	DATE:	DISCIPLINE:
INSPECTOR:	PRINTED NAME:	R.C.E. NO.:	EXPIRATION:
DATE COMPLETED:			