TRAFFIC SIGNAL PARADISE BLVD & PRICKLY PEAR

CITY OF ALBUQUERQUE

COA PROJECT NO. 5844.88
BERNALILLO COUNTY, NEW MEXICO

CONSTRUCTION PLANS

JULY 19, 2020

APPROVED RECORD DRAWINGS

City Inspector

Contractor

Tim Sims

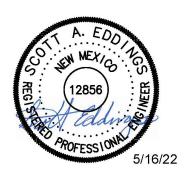
Custom Grading, Inc.

David Bishop

12/13/2022

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, SCOTT A. EDDINGS OF THE FIRM OF HUITT-ZOLLARS, INC., A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE INFRASTRUCTURE INSTALLED AS SHOWN ON THESE DRAWINGS (TRAFFIC SIGNAL PARADISE BOULEVARD AND PRICKLY PEAR) HAVE BEEN INSPECTED BY ME OR BY A QUALIFIED PERSON UNDER MY DIRECT SUPERVISION AND HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND THAT THE ORIGINAL DESIGN INTENT OF THE APPROVED PLANS HAS BEEN MET, EXCEPT AS NOTED BY ME OR PERSONNEL UNDER MY DIRECTION AND SURVEY INFORMATION PROVIDED BY THE CONTRACTOR, BIXBY ELECTRIC AND JASON D. SMITH, NMPS NO. 17122.



UTILITY COMPANIES

ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY

(WATER SERVICES & WATER LINES)
1 CIVIC PLAZA 5TH FLOOR, P.O. BOX 568
ALBUQUERQUE, NM 87103
CONTACT: DAMIAN LUNA, P.E.

CONTACT: DAMIAN LUNA, P.E
PHONE: (505) 289-3031
EMAIL: dluna@abcwua.org

CENTURY LINK

(TELEPHONE SERVICES)
4301 BOGAN AVENUE NE
ALBUQUERQUE, NM 87107
CONTACT: ABDUL BHIYAN

:: (505) 767-7443 abdul bhiyan2@centurylink.com

COMCAST

(CABLE TELEVISION)
8440 WASHINGTON STREET NE
ALBUQUERQUE, NM 87013
CONTACT: MIKE MORTUS

IE: (505) 271-3644 .: mike_mortus@cable.comcast.com

NEW MEXICO GAS COMPANY

(GAS SERVICES & GAS LINES)
4625 EDITH BLVD NE
ABLUQUERQUE, NM 87107
CONTACT: ROBERT SMITH
PHONE: (505) 697-3169
EMAIL: rsmith@tecoenergy.com

PNM ELECTRIC

(ELECTRICAL SERVICES & ELECTRIC LINES)
4201 EDITH BLVD NE
ALBUQERUQE, NM 87107
CONTACT: PAUL DUNAGAN
PHONE: (505) 241-3626
EMAIL: paul.dunagan@pnm.com

Level (3) (CABLE TELEVISION) 3830 SINGER BLVD NE ALBUQUERQUE, NM 87109

ALBUQUERQUE, NM 87109
CONTACT: JOHN HUFNAGLE
PHONE: (505) 938-7322
EMAIL: john.hufnagle@level3.com

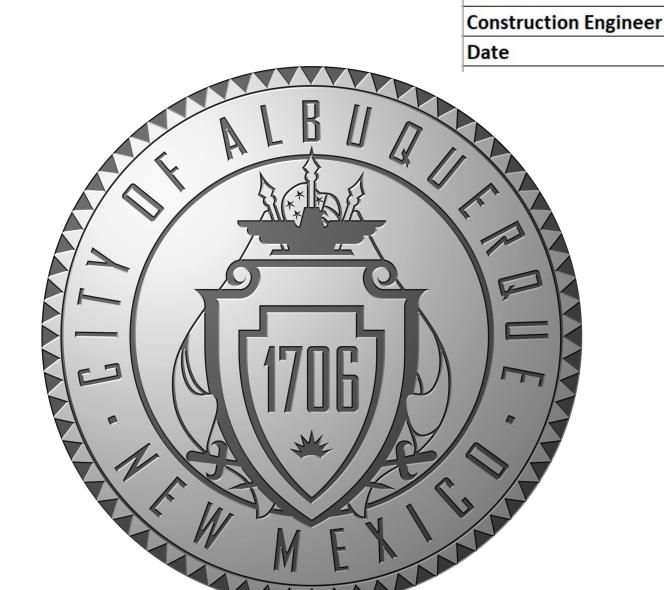
VERIZON

(TELEPHONE SERVICES)
6001 MIDWAY PARK
ALBUQUERQUE, NM 87109
CONTACT: ANDY DARNELL
PHONE: (505) 346-4470
EMAIL: andy.darnell@verizon.com
CONTACT: MATT STURGIS
PHONE: (505) 715-1460
EMAIL: m.sturgis@verizon.com

TRAFFIC NOTES

- 1. THE CONTRACTOR SHALL RESTRICT LANE CLOSURES TO BETWEEN THE HOURS OF 9:00 AM AND 3:00 PM.
- 2. THE CONTRACTOR SHALL ACCOMPLISH AS MUCH WORK AS POSSIBLE PRIOR TO STARTING CONSTRUCTION OPERATIONS THAT WILL AFFECT TRAFFIC. THE CONTRACTOR SHALL PROVIDE A LISTING OF SUCH WORK TO THE CITY PROJECT MANAGER AND ENGINEER FOR APPROVAL PRIOR TO STARTING CONSTRUCTION OPERATIONS.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL TRAFFIC AND CONSTRUCTION SIGNAGE UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE CITY OF ALBUQUERQUE.
- 4. ANY TRAFFIC CLOSURES TO BUSINESSES OR RESIDENCES REQUIRE 48-HOUR NOTICE.





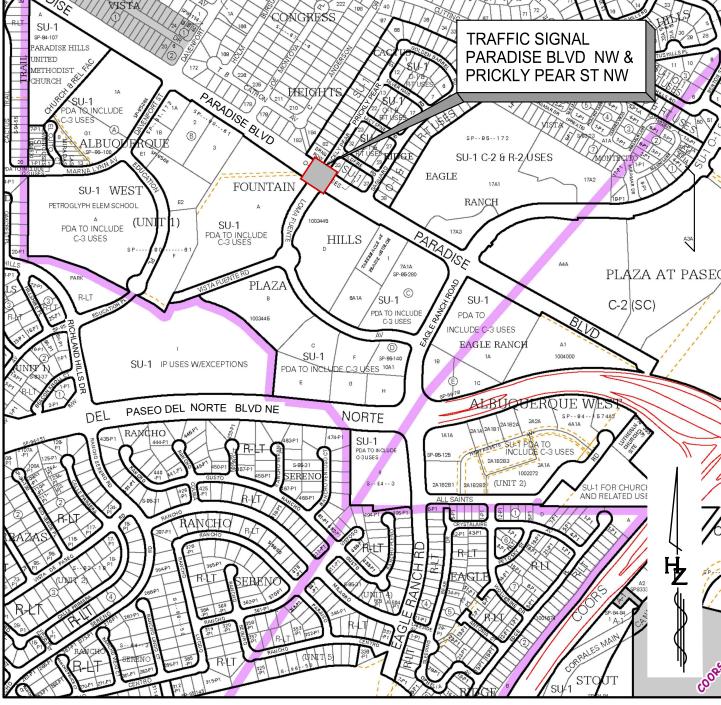
ALL PROPOSED CONDUITS SHALL BE INSTALLED BY BORING. SEE TRAFFIC SIGNAL NOTE #6, SHEET 2.

INDEX OF SHEETS

SHEET NO. SHEET TITLE

1 COVER SHEET

- TRAFFIC SIGNAL NOTES
- 3 EQUIPMENT, INCIDENTALS & INTERCONNECT
- 4 TRAFFIC SIGNAL ESTIMATED QUANTITIES
- TRAFFIC SIGNAL INTERCONNECT
- 7 TRAFFIC SIGNAL CONDUITS & CABLES I
- TRAFFIC SIGNALCABLES & CONDUITS II
- 5R TRAFFIC SIGNAL PLAN, REV. 9/8/2020 5A DEMOLITION PLAN AND CURB RAMP, ADDED 9/8/20.



VICINITY MAP

ZONE ATLAS MAP

C-12-Z & C-13-Z



NOVUS PROPERTIES, LLC TRAFFIC SIGNAL SHEETS CITY ENGINEER DATE USER DEPARTMENT DATE USER DEPARTMENT ENGINEERS STAMP & SIGNATURE APPROVALS **ENGINEER** Somethod APPROVED FOR CONSTRUCTION MPn-PE I/A -- No Scope /drology 7/31/2020 Constr. Mngmt. Constr. Coord. City Engineer AEHD Of City Project No. Sheet 5844.88

Plotted: 7/19/2020 12:29:55 PM, By:Eddings, Scott h:\proj\r307202.01 - fountain hills engineering and surveying\10 cadd & bim\10.1 autocad\SheetSet\trafficsignal\1_COVER.dwg Last Saved:7/19/2020 11:09:58 AM, seddings

TRAFFIC SIGNAL NOTES

- ALL WORK ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT MANUAL OF UNIFORM CONTROL DEVICES (MUTCD), NATIONAL ELECTRICAL CODE, THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS FOR ELECTRICAL WIRING AND APPARATUS, AND THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (UPDATED IN JULY 2003).
- LOCATIONS OF CONDUITS, FOUNDATIONS, CONTROL CABINETS, POLES, PULL BOXES, MANHOLES, AND SPLICE CABINET SHOWN ON THE PLANS ARE SCHEMATIC AND MAY BE ADJUSTED IN THE FIELD TO PROVIDE MAXIMUM CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND/OR TO CLEAR EXISTING UTILITIES.
- THE RECOMMENDED LOCATION OF SIGNAL POLES ON MEDIANS IS 15 FEET BACK FROM THE MEDIAN NOSE. ANY REVISIONS TO LOCATIONS OF POLES AND CABINETS FROM LOCATIONS SHOWN ON PLANS SHALL BE APPROVED BY CITY TRAFFIC ENGINEERING OPERATIONS.
- 4. CONSTRUCTION OF NEW FOUNDATIONS SHALL BE COORDINATED WITH OTHER CONSTRUCTION ACTIVITIES TO ASSURE THAT THE TOPS OF ALL FOUNDATIONS ARE FLUSH WITH ADJACENT SIDEWALK, THAT ALL STRAIGHT SIDES ARE PARALLEL TO SIDEWALK JOINTS AND BACK OF CURBS, AND THAT FOUNDATIONS WILL BE OUTSIDE OF RAMP SLOPES.
- THE CONTRACTOR IS WARNED THAT EXISTING CONDUITS MAY CONTAIN AC POWER AND CAUTION SHALL BE EXERCISED IN INTERCEPTING OR INSTALLING CABLE IN EXISTING CONDUIT.
- THE CONTRACTOR SHALL BORE, DRILL, OR PUSH CONDUITS WHEN CROSSING EXISTING PAVEMENTS AND ANY DRIVEWAYS FOR SIDE STREET CROSSINGS. BEFORE CONDUIT CAN BE BORED, DRILLED OR PUSHED. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES . THE CONTRACTOR SHALL LOCATE AND EXPOSE ALL LINES THAT CROSS ANY PROPOSED BORES. THESE EXCAVATIONS SHALL REMAIN UNTIL AFTER THE BORE IS COMPLETE. THE CONTRACTOR SHALL REMOVE AND REPLACE IN KIND ANY SIDEWALK OR PAVEMENT REQUIRED TO EXPOSE SUCH LINES. THE CONTRACTOR MAY CUT, TRENCH, AND REPLACE EXISTING PAVEMENT ONLY WHEN APPROVED BY THE PROJECT MANAGER.
- 7. ALL LOOP LEAD-IN CABLES SHALL BE TAGGED AT THE CONTROL CABINET TO IDENTIFY EACH CABLE BY PHASE ND LOOP NUMBER. ALL VIDEO DETECTION CABLES SHALL BE TAGGED AT THE CONTROL CABINET TO IDENTIFY EACH CABLE BY CAMERA NUMBER AND LOCATION. ALL EMERGENCY VEHICLE PREEMPTION DETECTOR CABLE SHALL BE TAGGED AT THE CONTROL CABINET TO IDENTIFY EACH CABLE BY DIRECTION AND LOCATION.
- 8. ALL PULL BOXES SHALL BE REINFORCED POLYMER MORTAR HEAVY DUTY TYPE WITH REINFORCED POLYMER MORTAR HEAVY DUTY COVERS. CONCRETE COVERS, METAL COVERS, AND CONCRETE PULL BOXES WILL NOT BE ACCEPTABLE.
- WATERTIGHT SPLICING OF TRAFFIC SIGNALS MULTI-CONDUCTOR CABLE WILL BE PERMITTED IN LARGE PULL BOXES INCLUDING LARGE MEDIAN PULL BOXES. SPLICING OF VIDEO DETECTION COAXIAL CABLE AND PREEMPTION DETECTOR CABLE WILL NOT BE PERMITTED FROM THE FIELD UNIT TO THE CONTROLLER CABINET.
- 10. THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE '311' THREE WORKING DAYS IN ADVANCE OF ANY ANTICIPATED WORK ON SIGNALS, LIGHTING, AND POWER SERVICES. TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL ASSIST THE CONTRACTOR IN FIELD LOCATION OF EQUIPMENT, COLOR CODING OF WIRING, AND MUST BE PRESENT WHEN SIGNALS AND LIGHTING ARE SHUT-OFF OR TURNED ON. THE CONTRACTOR SHALL ALSO NOTIFY THE CITY OF ALBUQUERQUE '311 EACH TIME A TRAFFIC SIGNAL CONTROL DOOR IS OPENED.
- 11. THE CONTRACTOR SHALL NOTIFY PNM 30 DAYS IN ADVANCE OF ANTICIPATED POWER SERVICE CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WITH PNM TO ESTABLISH THE ELECTRICAL SERVICE IN THE CITY'S NAME. THE CONTRACTOR SHALL OBTAIN ALL PERMITS ASSOCIATED WITH PROVIDING ELECTRICAL SERVICE. THESE COSTS AND WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- 12. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING SIGNS AS NOTED IN PLANS TO BE DELIVERED TO THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING YARD ON PINO ROAD NE WHEN TRAFFIC SIGNALS ARE PUT INTO OPERATION.
- 13. ALL CONDUIT GROUNDS SHALL BE INSULATED GREEN #6 AWG CONDUCTORS IN LIEU OF THE SPECIFIED BARE COPPER.
- 14. LIVE UNUSED CONDUCTORS WILL NOT BE ALLOWED AT MASTARM POLES AND PEDESTAL POLES. ALL UNUSED CONDUCTORS SHALL BE CAPPED AND WATER PROOFED WITH CRIMPED NYLON WIRE CAPS.
- 15. ALL COPPER SPLICES SHALL USE SILICONE GEL FILLED WIRE NUTS.
- 16. IF TRENCH WIDTH LESS THAN 12" ARE PROPOSED BY THE CONTRACTOR, APPROVED COMPACTION METHODS SHALL BE USED DURING BACKFILL TO PREVENT LATENT TRENCH FAILURES. THE CONTRACTOR SHALL USE GROUT OR LEAN FILL AS APPROVED BY THE PROJECT MANAGER IN LIEU OF EARTH BACKFILL.
- 17. CONTRACTOR SHALL PREPARE, SUBMIT AND PROCESS FOR APPROVAL TRAFFIC SIGNAL TIMING PLANS THROUGH CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS. CONTRACTOR WILL ALSO PROGRAM ALL TRAFFIC SIGNAL CONTROLLERS.
- 18. EXISTING CONDUITS TO BE REMOVED OR ABANDONED SHALL HAVE ALL WIRING REMOVED. IF EXISTING CONDUIT IS NOT UTILIZED, TRACER WIRE SHOULD BE INSTALLED.

TRAFFIC SIGNAL NOTES (CONTINUED)

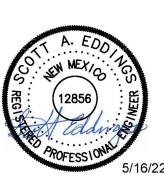
- 19. EXISTING CONDUITS SHALL BE REPAIRED, ADJUSTED, OR REPLACED AS DIRECTED BY THE PROJECT MANAGER WHERE ELECTRICAL PULL BOXES OR TRAFFIC MANHOLES ARE INSTALLED OR REPLACED.
- 20. EXISTING SIDEWALKS IMPACTED OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR.
- 21. THE CONTRACTOR SHALL ARRANGE TO HAVE OFF-DUTY POLICE OFFICERS DIRECT TRAFFIC WHEN SIGNALS ARE TURNED OFF.
- 22. ALL DATA SHOWN HEREIN CONCERNING EXISTING UTILITIES HAS BEEN OBTAINED FROM "AS-BUILT" DRAWINGS FROM FIELD OBSERVATIONS WHICH MAY OR MAY NOT BE ACCURATE. THE CONTRACTOR WILL BE RESPONSIBLE FOR EXPLORATORY TRENCHING, IF NECESSARY, TO MORE SPECIFICALLY LOCATE UTILITY LINES. COST OF LOCATING UTILITY LINES INCLUDING EXPLORATORY TRENCHING WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- 23. ANY TRAFFIC SIGNAL EQUIPMENT REMOVED AND NOT RELOCATED SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING YARD ON PINO ROAD NE WITH PROPER DOCUMENTATION (LETTER OF TRANSMITTAL).
- 24. THE CONTRACTOR SHALL TAKE DIGITAL PHOTOS OF EXISTING TRAFFIC SIGNAL EQUIPMENT PRIOR TO ANY REMOVALS OF SIGNAL EQUIPMENT AFTER CONSTRUCTION. THE PICTURES SHALL BE PROVIDED TO THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATION IF .JPG FORMAT AND PLACED ON A CD-ROM. THE CD-ROM SHALL BECOME THE PROPERTY OF THE CITY AND MAY BE USED TO RESOLVE ANY QUESTIONS RELATED TO THE ORIGINAL CONDITION AND QUALITY OF EXISTING EQUIPMENT. ALL REMOVED EXISTING TRAFFIC SIGNAL EQUIPMENTS INCLUDING BUT NOT LIMITED TO POLES, SIGNAL HEADS, CONTROLLER CABINETS, CONFLICT MONITORS, AND DETECTORS SHALL BE DELIVERED TO THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING YARD ON PINO ROAD NE WITH PROPER DOCUMENTATION (LETTER OF TRANSMITTAL).
- 25. ALL PEDESTRIAN RAMPS SHALL BE AMERICANS WITH DISABILITY ACT (ADA) COMPLAINT INCLUDING APPROPRIATE RAMP SLOPES AND INCORPORATE TRUNCATED DOMES.
- 26. ALL PEDESTRIAN PUSH BUTTON LOCATIONS SHALL BE ADA COMPLIANT AND BE INSTALLED AT A HEIGHT OF 36 INCHES FROM FINISHED GRADE. PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED NO MORE THAN 10 INCHES HORIZONTALLY FROM THE SIDEWALK OR THE PEDESTRIAN REFUGE AREA OF A MEDIAN.
- 27. PEDESTRIAN PUSH BUTTON SIGNS SHALL BE INSTALLED WITH THE ARROW POINTING IN THE DIRECTION OF THE PEDESTRIAN MOVEMENT
- 28. NEW TRAFFIC SIGNAL POLES SHALL BE CITY OF ALBUQUERQUE STANDARD TYPE II OR TYPE III GALVANIZED STEEL. ALUMINUM POLES MAY BE USED ONLY WHEN PRE-APPROVED BY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS. MIXING OF STEEL AND ALUMINUM POLES AND MASTARMS AT AN INTERSECTION IS HIGHLY DISCOURAGED AND MUST BE APPROVED BY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS.
- 29. CONTRACTOR SHALL FURNISH AND INSTALL ALUMINUM PANEL STREET NAME SIGNS PER CITY OF ALBUQUERQUE STREET NAME SIGNS STANDARDS.
- 30. LOOP DETECTORS SHALL BE CENTERED ON LANE AS INDICATED ON THE PLANS. LOOPS SHALL BE 6'x40' QUADRUPOLE PRESENCE DETECTORS (2 TURNS) FOR LEFT TURN LANES AND SHALL BE 6'x40' BIPOLE PRESENCE DETECTORS (2 TURNS) FOR THROUGH LANES.

TRAFFIC SIGNAL LEGEND

NEW	EXISTING	ITEM
		PULL BOX (LARGE)
		PULL BOX (STANDARD)
		SERVICE RISER (SIGNAL)
		METER PEDESTAL (M)
		CONTROLLER CABINET (CC)
T	Т	TRANSFORMER
LCC	L	LIGHTING CONTROLLER CABINET
		CONDUIT RUN (SIGNAL)
COMM	COMM	CONDUIT RUN (INTERCONNECT)
X	X	CONDUIT RUN NUMBER (SIGNAL)
SX	SX	CONDUIT RUN NUMBER (POWER SERVICE)
CX	CX	CONDUIT RUN NUMBER (INTERCONNECT SERVICE)
		TYPE II STANDARD POLE WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, PREEMPTION DETECTOR, AND IISNS
		TYPE III STANDARD POLE WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, PREEMPTION DETECTOR, LUMINAIRE VIDEO CAMERA, AND IISNS
		PEDESTRIAN COUNTDOWN SIGNALS ON PEDESTAL POLE (PUSH BUTTONS MOUNTED ON SIDE OF POLE WHERE INDICATED)
		TRAFFIC SIGNAL PEDESTAL POLE (WITH PROTECTED TURN SIGNAL)
		TRAFFIC SIGNAL PEDESTAL POLE (WITH PROTECTED+PERMITTED TURN SIGNAL)
		LOOP DETECTION
V	V	SPLICE VAULT
>==		VIDEO CAMERA
▶●	\triangleright	EMERGENCY VEHICLE PREEMPTION DETECTOR
_		ALUMINUM PANEL STREET NAME SIGN

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, SCOTT A. EDDINGS OF THE FIRM OF HUITT-ZOLLARS, INC., A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE INFRASTRUCTURE INSTALLED AS SHOWN ON THESE DRAWINGS (TRAFFIC SIGNAL PARADISE BOULEVARD AND PRICKLY PEAR) HAVE BEEN INSPECTED BY ME OR BY A QUALIFIED PERSON UNDER MY DIRECT SUPERVISION AND HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND THAT THE ORIGINAL DESIGN INTENT OF THE APPROVED PLANS HAS BEEN MET, EXCEPT AS NOTED BY ME OR PERSONNEL UNDER MY DIRECTION AND SURVEY INFORMATION PROVIDED BY THE CONTRACTOR, BIXBY ELECTRIC AND JASON D. SMITH, NMPS NO. 17122.



TITLE:

Aug. 3, 2020

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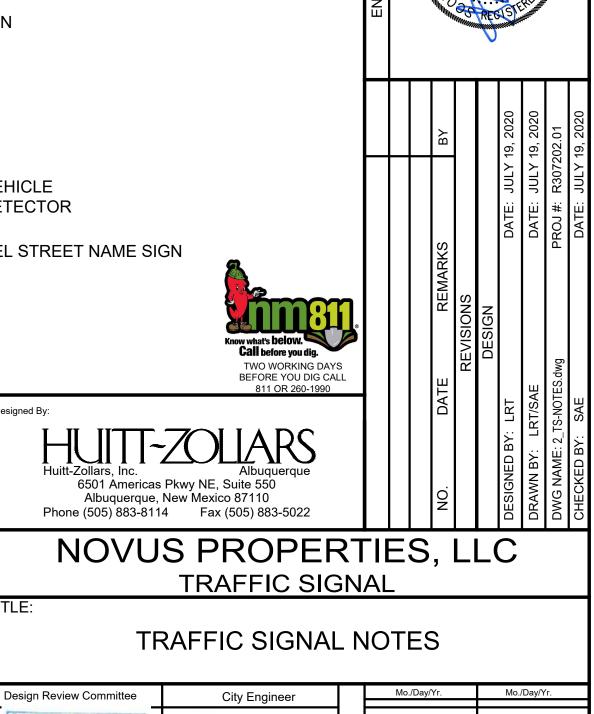
City Project No.

Aug. 3, 2020

CITY ENGINEER

C-12-Z, C-13-Z

Zone Map No.



TRAFFIC SIGNAL EQUIPMENT REQUIREMENTS

- 1. THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING: A. ALL TRAFFIC SIGNAL CONTROLLERS SUPPLIED FOR THIS PROJECT SHALL BE ECONOLITE COBALT OR APPROVED EQUAL BY THE CITY OF ALBUQUERQUE.ALL TRAFFIC SIGNAL
 - CONTROLLER CABINETS SUPPLIED FOR THIS PROJECT SHALL BE TYPE "P" CABINETS. B. SERVICE PEDESTAL SUPPLIED FOR THIS PROJECT SHALL BE TESCO TYPE B AS PER CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS.
- EMERGENCY VEHICLE PREEMPTION DETECTOR SYSTEM EQUIPMENT SHALL BE 3M "OPTICOM" MODEL 762 (OR MOST CURRENT ACCEPTABLE MODEL) PHASE SELECTORS MOUNTED ON 3M "OPTCOM" MODEL RACKS, OR APPROVED EQUAL. ALL RACKS SHALL BE CAPABLE OF PROVIDING FOUR CHANNELS OF DETECTION. PHASE SELECTOR MODULES SHALL BE CAPABLE OF TWO CHANNELS EACH. A MANUFACTURER'S REPRESENTATIVE SHALL ASSIST THE CONTRACTOR IN THE FIELD AS WORK PROGRESSES TO COMPLETE THE INSTALLATION OF ALL EMERGENCY VEHICLE PREEMPTION DETECTOR EQUIPMENT AND ASSIST IN SETTING UP. TURNING ON, PROGRAMMING AND FIELD TESTING PREEMPTION EQUIPMENT INCLUDED EMITTERS TO ENSURE THAT THE EQUIPMENT IS OPERATIONAL.
- 3. ALL INDICATIONS OF ALL VEHICLE SIGNAL ASSEMBLIES AND ALL PEDESTRIAN SIGNAL INDICATORS SHALL BE TINTED LED SIGNALS OF A TYPE AND MANUFACTURER APPROVED BY THE CITY OF ALBUQUERQUE. PEDESTRIAN SIGNALS SHALL ALSO INCLUDE "COUNTDOWN" INDICATORS FOR CLEARANCE TIME.
- 4. ALL PEDESTRIAN PUSH BUTTONS SHALL BE BULLDOG TYPE.
- 5. ALL SIGNAL ASSEMBLIES, PEDESTRIAN SIGNALS, PEDESTRIAN PUSH BUTTONS, AND FITTINGS SHALL COMPLY WITH THE CITY OF ALBUQUERQUE TYPE AND COLOR (BLACK) FINISH REQUIREMENTS.
- LOOP DETECTION SHALL BE THE PREFERRED CHOICE FOR VEHICLE DETECTION AT AN INTERSECTION. VIDEO DETECTION OR OTHER DETECTION OPTIONS MAY NOT BE ALLOWED UNLESS PRE-APPROVED BY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS.
- IF VIDEO DETECTION IS APPROVED BY THE CITY OF ALBUQUERQUE, CONTRACTOR SHALL
 - FURNISH AND INSTALL THE FOLLOWING: A. NEWEST ECONOLITE CAMERAS.
 - B. NECESSARY COMPUTER SOFTWARE TO CONNECT AND OPERATE THE VIDEO DETECTION SYSTEM.
 - C. NECESSARY VIDEO POWER CABLE.
 - D. TRAINING FOR THE VIDEO DETECTION EQUIPMENT AND THE VIDEO HARDWARE SYSTEM.

TRAFFIC SIGNAL INCIDENTAL ITEMS*

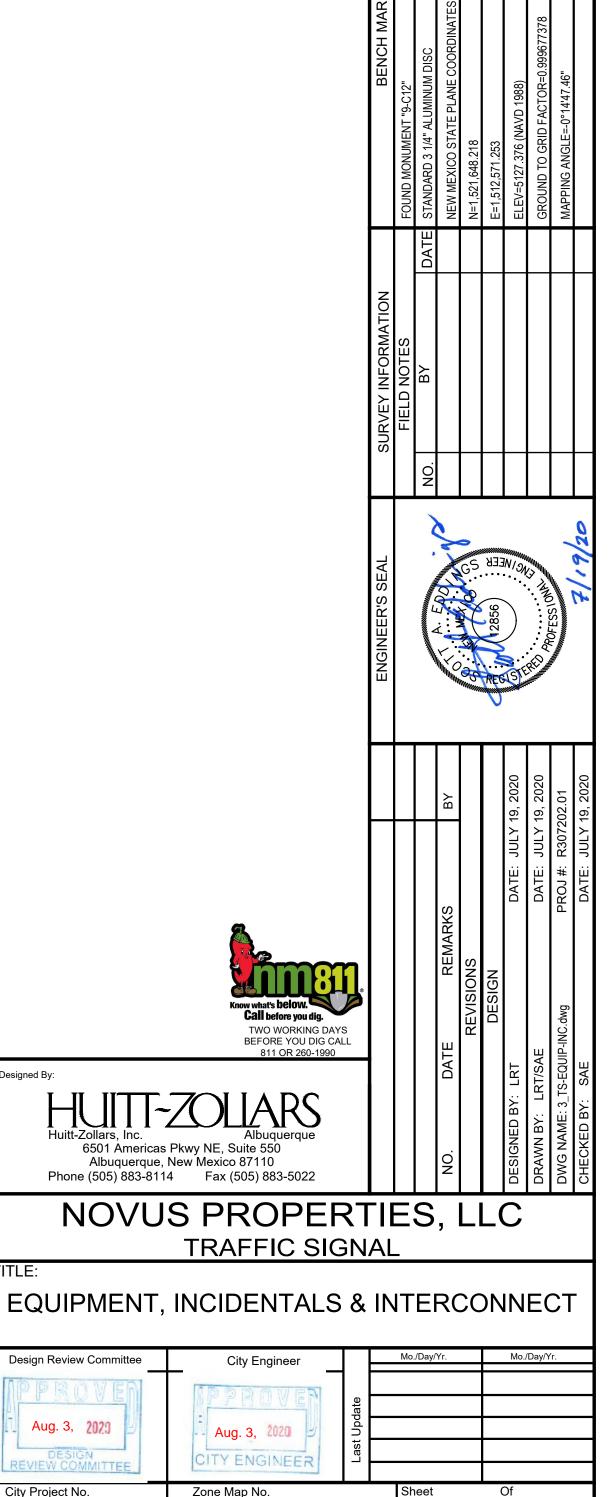
- 1. REMOVAL OF EXISTING PULL BOXES, CONDUITS, CONDUCTORS OR OTHER SIGNAL EQUIPMENT FOR INSTALL OF NEW SIGNAL EQUIPMENTS EXCEPT AS NOTED IN PLANS.
- CABLE TESTING AND DIAGRAMS.
- 3. BORING, DRILLING, PUSHING, AND TRENCHING, INCLUDING REMOVAL AND REPLACEMENT OF PAVEMENT, SIDEWALKS, DRIVE PADS, VALLEY GUTTERS, WHEELCHAIR RAMPS, CURB & GUTTER AND LANDSCAPING (INCLUDING SPRINKLERS) FOR INSTALLATION OF PULL BOXES, CONDUITS, AND SIGNAL FOUNDATIONS, EXCEPT AS NOTED IN PLANS.
- 4. LOCATION OF UTILITY LINES INCLUDING EXPLORATORY TRENCHING AND EXPOSING GAS LINES WHEN BORING.
- 5. DESIGN, MATERIALS, INSTALLATION, AND REMOVAL OF SAFETY BARRIER FOR SHIELDING **EQUIPMENT OR MATERIAL**
- 6. APPRISING PUBLIC THROUGH THE LOCAL NEWS MEDIA.
- 7. HAULING OF MATERIAL TO BE DISPOSED TO CITY LANDFILL
- 8. REMOVAL, SALVAGE, AND TRANSPORTATION OF EXISTING SIGNAL EQUIPMENT TO THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING YARD ON PINO ROAD NE.
- 9. LEAN FILL FOR CONDUIT TRENCHES.
- 10. PULL BOX ADJUSTMENT TO GRADE.
- 11. OFF-DUTY POLICE OFFICER FOR TRAFFIC CONTROL.
- 12. CAMERA MOUNTING HEIGHT ADJUSTMENT ARM.
- 13. COST FOR PNM TO PROVIDE ELECTRICAL SERVICE.
- 14. CONTRACTOR SHALL PROVIDE COMPLETE AS-BUILT GIS DATA TO CITY TRAFFIC OPERATIONS PRIOR TO PROJECT CLOSEOUT.
- * ITEMS LISTED ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY NOT BE COMPLETE. THIS DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIALS REQUIRED BY THE SPECIAL PROVISIONS SERIALS (STANDARD DETAILS), SUPPLEMENTAL SPECIFICATIONS, OR THE STANDARD SPECIFICATIONS.

TRAFFIC SIGNAL INTERCONNECT REQUIREMENTS

- PER PLAN, EXISTING COPPER OR FIBER OPTIC INTERCONNECT SHALL BE MAINTAINED OR PROVIDED FOR SIGNAL CONSTRUCTION. THIS SHALL INCLUDE BUT NOT LIMITED TO INSTALLING SPLICE CABINETS, SPLICE VAULTS, SPLICE ENCLOSURES, INTERCONNECT CONDUIT AND CABLE CCTV CAMERA INSTALLATION, AND APPROPRIATE SIGNAL CONTROLLER INTERFACES (FIELD SWITCH, TERMINAL SERVICES ETC.).
- 2. IF NO EXISTING INTERCONNECT IS PRESENT, CONTRACTOR, SHALL PROVIDE SPLICE VAULT, AND INTERCONNECT CONDUIT WITH #6 AWG TRACER WIRE & PULL STRING. INTERCONNECT CONDUIT SHALL BE STUBBED AND CAPPED AT PROJECT LIMITS.
- SIGNAL CONDUCTORS SHALL NOT SHARE CONDUIT OR PULL BOXES WITH FIBER OPTIC COMMUNICATIONS CABLE. FIBER OPTIC SHALL BE INSTALLED IN A SEPARATE CONDUIT AND PULL
- 4. SPLICING OF COMMUNICATION CABLE WILL NOT BE PERMITTED IN PULL BOXES, SPLICING OF COMMUNICATION CABLE (CONNECTIONS) WILL BE PERMITTED ONLY AT SPLICE CABINETS, SPLICE VAULTS WITH SPLICE CLOSURES, OR CONTROLLER CABINETS WITH SPLICE BLOCKS.
- FOR CONDUITS CONTAINING ONLY LOW VOLTAGE COMMUNICATION CABLES OR FIBER OPTIC CABLE, AN INSULATED SINGLE CONDUCTOR COPPER #6 AWG WILL BE USED AS A TRACER WIRE.

CERTIFICATE OF

, SCOTT A. EDDINGS PROFESSIONAL ENG CERTIFY TO THE INFRASTRUCTURE II SIGNAL PARADISE BO ME OR BY A QUALIF BEEN CONSTRUCTED AND THAT THE ORIGINAL DESIGN INTENT OF THE APPROVED PLANS HAS BEEN MET, EXCEPT AS NOTED BY ME OR PERSONNEL UNDER MY DIRECTION AND SURVEY INFORMATION PROVIDED BY THE CONTRACTOR, BIXBY ELECTRIC AND JASON D. SMITH, NMPS NO. 17122.



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Design Review Committee

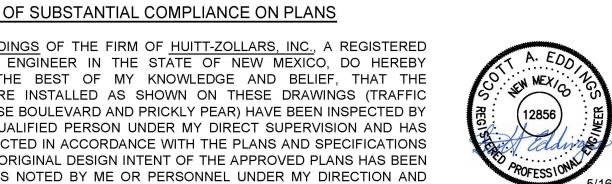
Aug. 3, 2020

5844.88

Zone Map No.

C-12-Z, C-13-Z

City Project No.





TRAFFIC SIGNAL QUANTITIES

Item No.	Item Description	Unit	Interconnect	Prickly Pear	Total
422.004	Traffic Signal Pedestal Pole, 15', CIP.	EA		2	2
422.016	Traffic Signal Mastarm, 30' Arm, Type II, Trombone, CIP.	EA		1	1
422.017	Traffic Signal Mastarm, 30' Arm, Type III, Trombone, CIP.	EA		1	1
422.020	Traffic Signal Mastarm, 40' Arm, Type II, Trombone, CIP.	EA		2	2
423.001	Traffic Signal Foundation For Pedestal Pole, CIP.	EA		2	2
423.002	Traffic Signal Mastarm Foundation, CIP.	EA		4	4
423.003	Traffic Signal Controller Foundation, (Type P Cabinet), CIP.	EA		1	1
424.006	Rigid Electrical Conduit, 2" Including Trench, Backfill, Patching, Pushing, Boring And Jacking, CIP.	LF		505	505
424.011	Rigid Electrical Conduit, 3", Incl. Trenching, Backfill, Patching, Pushing, Boring, & Jacking, CIP.	LF	235	520	755
425.002	Electrical Pull Box, (Standard), CIP	EA	2		2
425.003	Electrical Pull Box, (Large), CIP	EA		13	13
425.021	Splice Vault	EA	1		1
426.001	Single Conductor #2, CIP.	LF		84	84
426.003	Single Conductor #6, CIP.	LF		2640	2,640
426.005	Single Conductor #10, CIP.	LF		0	0
426.010	Multi-Conductor Cable, #5, CIP.	LF		2500	2,500
426.011	Multi-Conductor Cable, #7, CIP.	LF		325	325
426.014	Multi-Conductor Cable, #20, CIP.	LF		960	960
426.101	1 Existing Wiring, Remove & Dispose, Complete		1		1
427.002	3 Section Traffic Assembly, CIP.	EA		9	9
427.004	5-Section Traffic Assembly, CIP.	EA		9	9
427.023	Pedestrian Signal, Countdown, CIP.	EA		8	8
427.031	3 Section Backplate, CIP.	EA		7	7
427.033	5 Section Backplate, CIP.	EA		3	3
428.001	Loop Vehicle Detector, CIP.	EA		7	7
428.010	Push Button Station, CIP.	EA		8	8
428.021	Loop Detector Wire, CIP.	LF		2345	2,345
428.050	Loop Lead-In Cable, CIP.	LF		1085	1,085
428.060	Detector Saw Cut, Complete	LF		1010	1,010
428.071	Phase Sector Module, 2 Channel, CIP	EA		2	2
428.076	Emergency Preemption Detector, 2D/2C	EA		4	4
428.078	Emergency Preemption Detector Cable	LF		970	970
428.080	Emergency Preemption Emitter	EA		4	4
429.001	Traffic Actuated Controller, CIP	EA		1	1
429.021	8 Phase Dual Ring Controller Cabinet, CIP	EA		1	1
435.006	Single Mode Fiber Optic Cable (6-Strand) (Interconnect)	LF	1500		1,500
435.600	Splice Closure Re-Splice, CIP	EA		1	1
450.010	Aluminum Panel Sign, CIP	SF		45	45
428.092	PTZ Camera Video Cable	LF		100	100
428.093	PTZ Camera Power Cable	LF		100	100
428.094	PTZ Camera	EA		1	1

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS I, $\underline{\text{SCOTT A. EDDINGS}}$ OF THE FIRM OF $\underline{\text{HUITT-ZOLLARS, INC.}}$, A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, DO HEREBY

JASON D. SMITH, NMPS NO. 17122.

CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE INFRASTRUCTURE INSTALLED AS SHOWN ON THESE DRAWINGS (TRAFFIC SIGNAL PARADISE BOULEVARD AND PRICKLY PEAR) HAVE BEEN INSPECTED BY ME OR BY A QUALIFIED PERSON UNDER MY DIRECT SUPERVISION AND HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND THAT THE ORIGINAL DESIGN INTENT OF THE APPROVED PLANS HAS BEEN MET, EXCEPT AS NOTED BY ME OR PERSONNEL UNDER MY DIRECTION AND SURVEY INFORMATION PROVIDED BY THE CONTRACTOR, BIXBY ELECTRIC AND



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<u> </u>	GROUND TO GRID FACTOR=0.999677378 MAPPING ANGLE=-0°14'47.46"	
ATION	$\frac{1}{1}$	
SURVEY INFORMATION FIELD NOTES BY		
ENGINEER'S SEAL ENGINEER'S SEAL SOCIONATION SERVICES SOCIONATIO	PROFESSION F	+117/20
JULY 19, 2020	JULY 19, 2020 R307202.01	JULY 19, 2020
		DATE: JULY
MARKS		
Know what's below. Call before you dig. TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990	N BY: LKT/SAE IAME: 4-QTY.dwg	(ED BY: SAE
Signed By: Huitt-Zollars, Inc. 6501 Americas Pkwy NE, Suite 550 Albuquerque, New Mexico 87110 Phone (505) 883-8114 Fax (505) 883-5022	DKAWN BY: LK1/SAE DWG NAME: 4-QTY.dwg	CHECKED BY: SAE
INOUS PROPERTIES, LLC TRAFFIC SIGNAL Sylva Belovi. Sylva Belovi	DWG NAME: 4	
Signed By: Huitt-Zollars, Inc. 6501 Americas Pkwy NE, Suite 550 Albuquerque, New Mexico 87110 Phone (505) 883-8114 Fax (505) 883-5022 NOVUS PROPERTIES, LLC TRAFFIC SIGNAL	S DWG NAME: 4	

Design Review Committee - Aug. 3, 2020

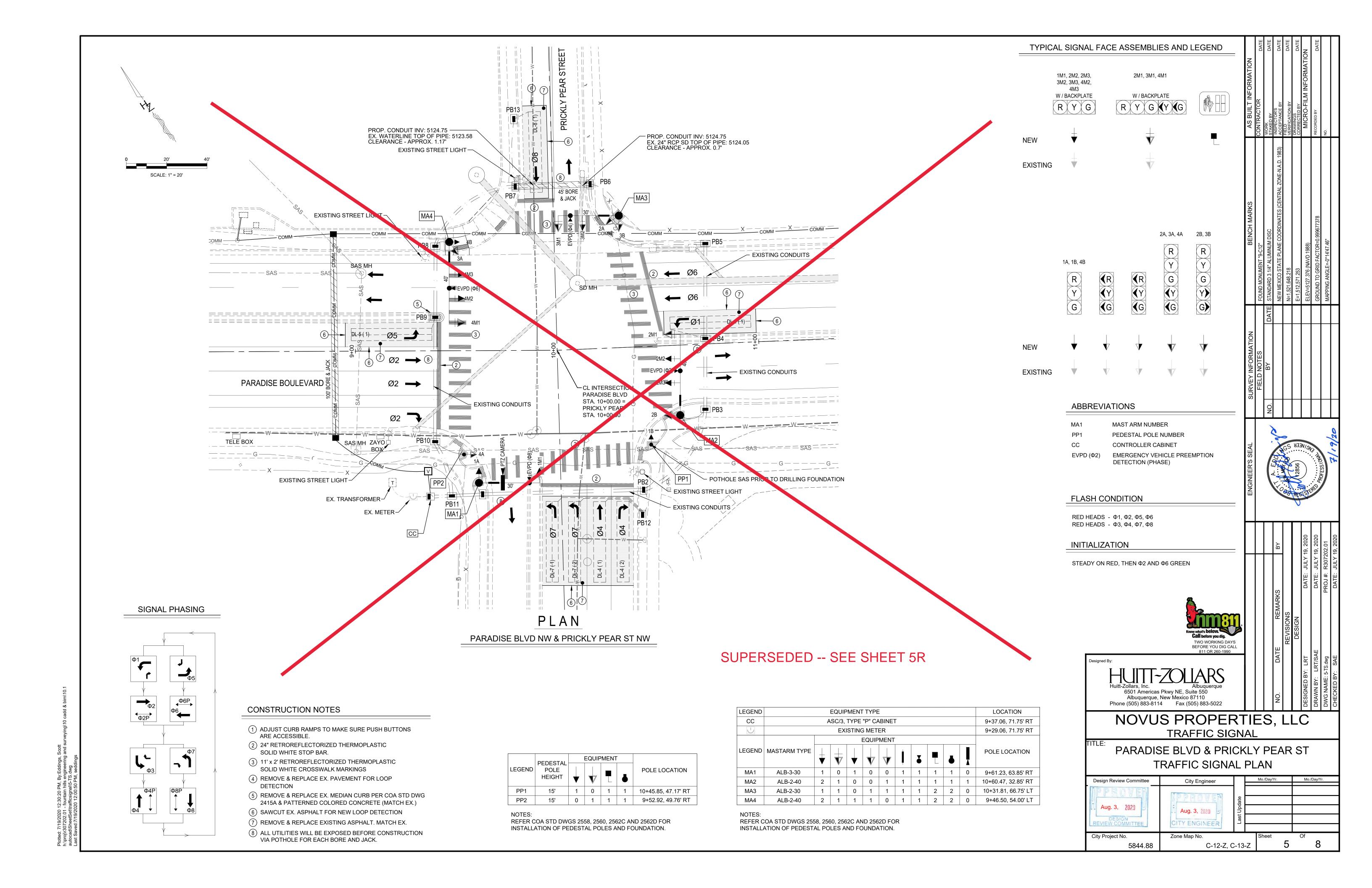
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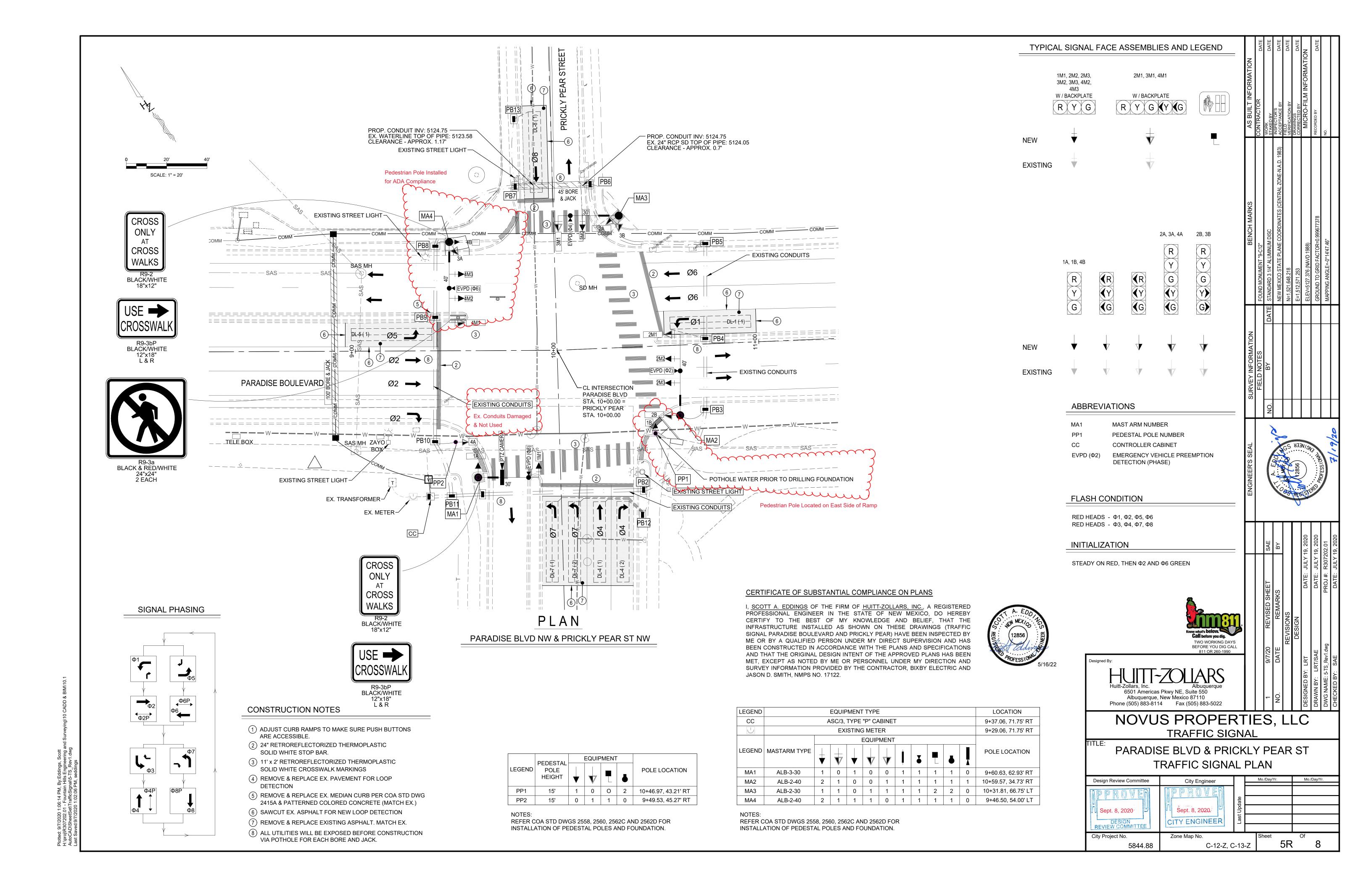
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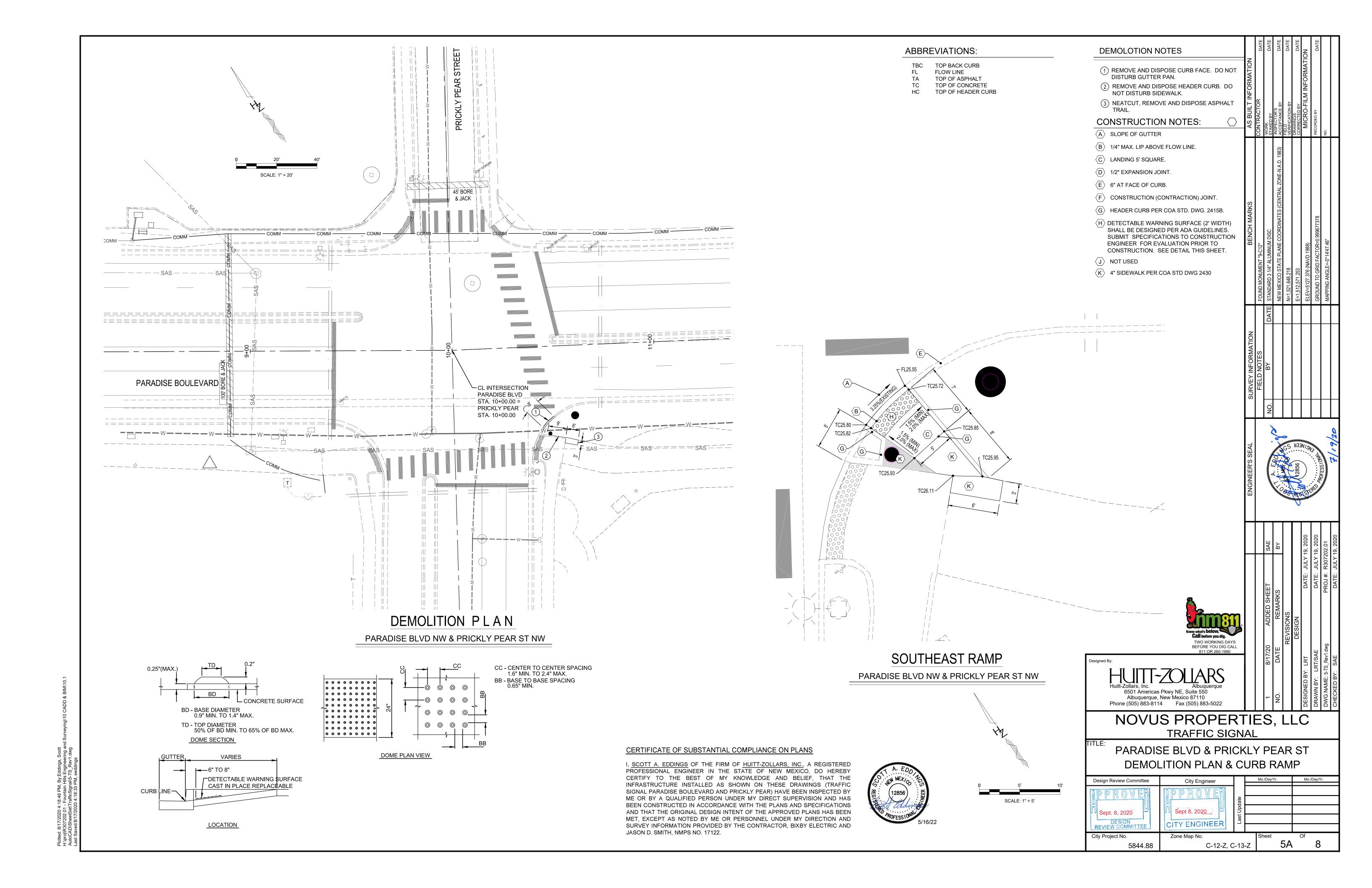
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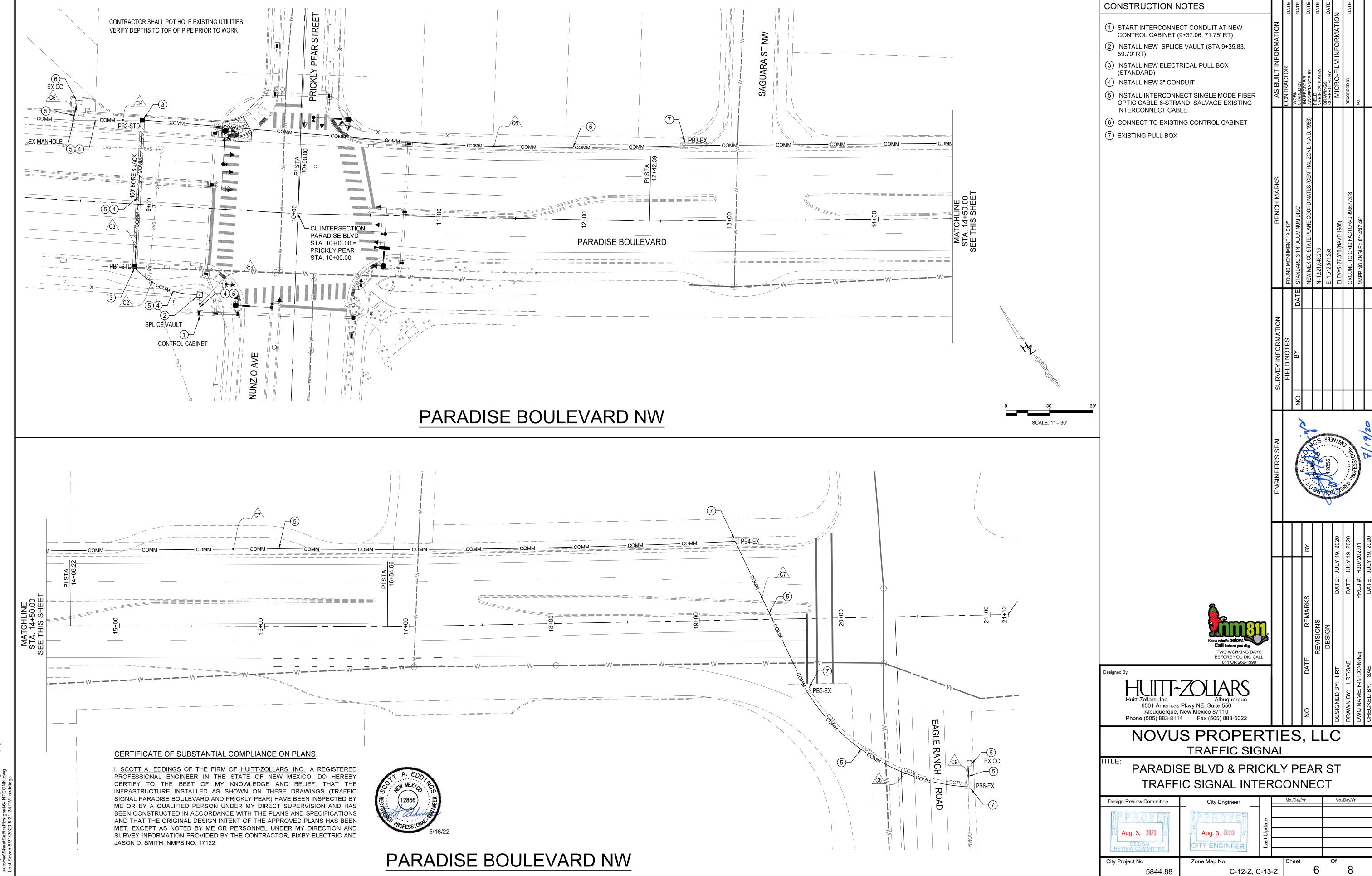
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Zone Map No.









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CONDUIT AND CONDUCTOR REQUIREMENTS

RING

HOME-RUN

Χ

CONDUIT FILL BY CONDUCTOR TYPE AND LENGTH

LUMINAIRE

LOOP

PREEMPTION CABLE

Χ

BRANCH

EXPLANATION OF POWER, HOME-RUN, RING, BANCH, IISNS, LUMINAIRE, LOOP, AND PREEMPTION CABLE IS AS FOLLOWS:

POWER: RISTER TO METER 3-SCC#2 AWG (STRANDED PNM WIRING), METER TO CC HAS 3-SCC#6

CONDUIT LENGTH, SIZE, TYPE

3"

20

20

LOCATION

POWER TO METER

METER TO CC

CC TO PB11

CC TO PB11

POWER

SIZE AND LENGTH

300

RUN ID

S2

HOME-RUN: 1-MCC5, 2-MCC20, AND 2 SCC#6 WHITE & GREEN RING: 1-MCC5, 1-MCC20, 2-SCC#6 WHITE & GREEN

BRANCH: 1-MCC5, 1-MCC20, 2-SCC#6 WHITE & GREEN IISNS: 2-SCC#10

LUMINAIRE: 2-SCC#8

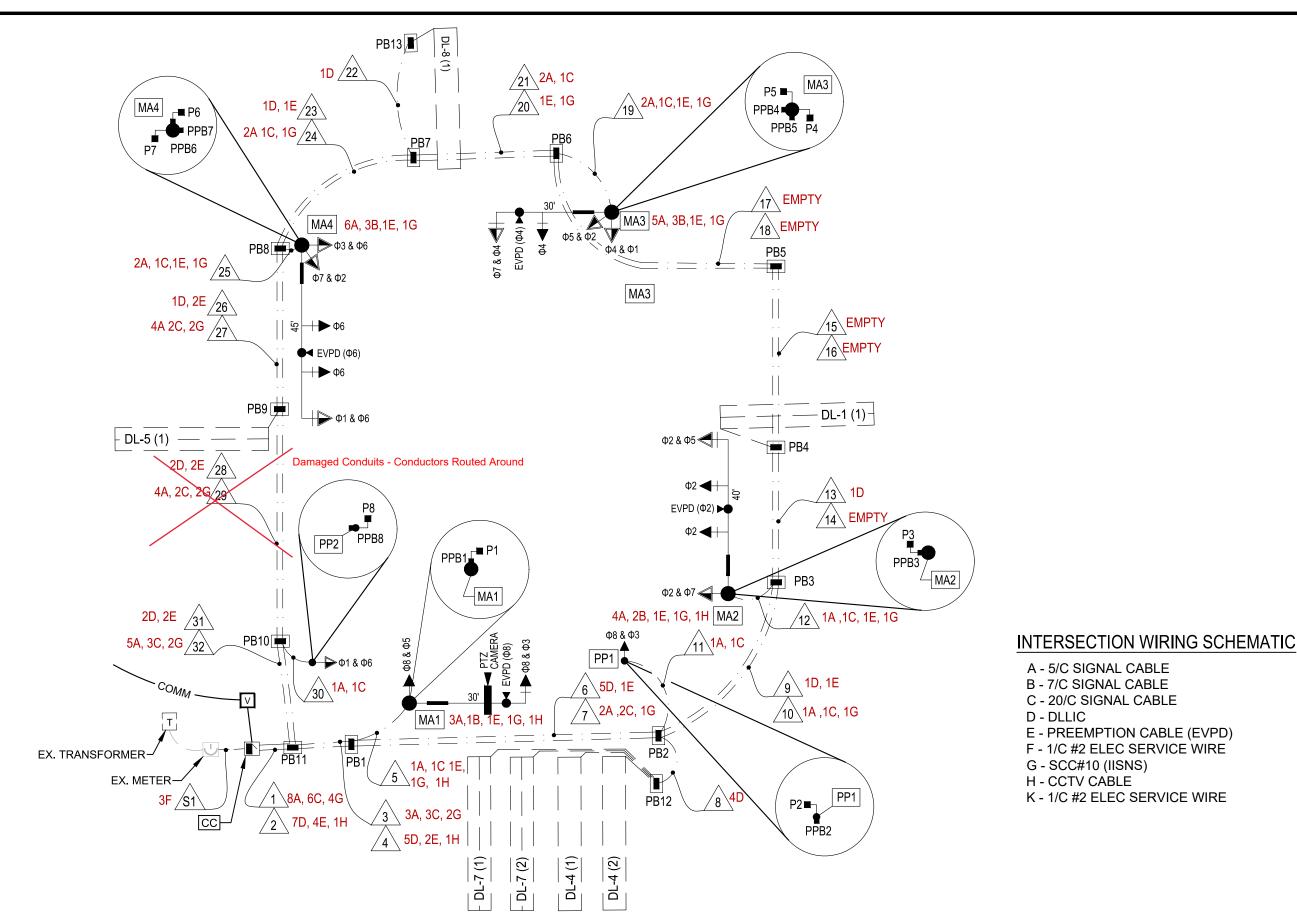
LOOP: 1-LOOP DETECTOR LEAD-IN CABLE PREEMPTION CABLE: 1-PREEMPTION DETECTOR CABLE

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, SCOTT A. EDDINGS OF THE FIRM OF HUITT-ZOLLARS, INC., A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE INFRASTRUCTURE INSTALLED AS SHOWN ON THESE DRAWINGS (TRAFFIC SIGNAL PARADISE BOULEVARD AND PRICKLY PEAR) HAVE BEEN INSPECTED BY ME OR BY A QUALIFIED PERSON UNDER MY DIRECT SUPERVISION AND HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND THAT THE ORIGINAL DESIGN INTENT OF THE APPROVED PLANS HAS BEEN MET, EXCEPT AS NOTED BY ME OR PERSONNEL UNDER MY DIRECTION AND SURVEY INFORMATION PROVIDED BY THE CONTRACTOR, BIXBY ELECTRIC AND JASON D. SMITH, NMPS NO. 17122.



	PREEMPTION CABLE TRACE								
PREEMPTION DETECTOR	FROM	то	LENGTH (FT)	(A)	FROM	ТО	CONDUIT TRACE	LENGTH (FT) (B)	LENGTH (FT) (A+B)
EVPD (Φ2)	MA2	POLE BASE	40		POLE BASE	CC	12-10-7-3-1	175	215
EVPD (Φ4)	MA3	POLE BASE	30		POLE BASE	CC	19-20-24-27-29-32-1	310	340
EVPD (Φ6)	MA4	POLE BASE	45		POLE BASE	CC	25-27-29-32-1	185	230
EVPD (Φ8)	MA1	POLE BASE	30		POLE BASE	CC	5-3-1	55	85
TOTAL LENGTH (FT)								870	



	DETECTION LOOPS												
LOOP ID	PHASE #		VEHICLE DI	ETECTION		LOOP TYPE		LOOP DIM	IENSIONS		LOOP WIRE (FT)	PAVEMENT	
LOOP ID	PHASE #	MODE	CALL	UNIT#	CHANNEL	EL LOOP TYPE	LOOPTYPE	L	W	S	Т	LOOF WIRE (11)	SAWCUT (FT)
DL-1 (1)	Ф1	PRESENSE	2	1	ONE	QP	40	6	4	4	365	136	
DL-4 (1)	Ф4	PRESENSE	3	6	ONE	BP	40	6	4	4	205	96	
DL-4 (2)	Ф4	PRESENSE	3	6	TWO	BP	40	6	16	4	229	108	
DL-5 (1)	Ф5	PRESENSE	2	1	TWO	QP	40	6	4	4	365	136	
DL-7 (1)	Ф7	PRESENSE	4	5	TWO	QP	40	6	39	4	435	171	
DL-7 (2)	Ф7	PRESENSE	4	10	TWO	QP	40	6	28	3	411	160	
DL-8 (1)	Ф8	PRESENSE	3	7	ONE	BP	40	6	5	4	207	97	
TOTALS							2217	904					

QUANTITY ESTIMATING ASSUMPITIONS LOOP WIRE

6' x 40' QUADRUPOLE LOOP QP = (8*L) + (4*W) + (2*S) + (2T) + 5

6' x 40' BIPOLE LOOP BP = (4*L) + (4*W) + (2*S) +(2*T) + 5

PAVEMENT SAWCUT

6' x 40' QUADRUPOLE LOOP QP = (3*L) + (2*W) + S

6' x 40' BIPOLE LOOP BP = (2*L) + (2*W) + S

WHERE

QP = QUADRUPOLE LOOP (2 TURNS)

BP = BIPOLE LOOP (2 TURNS)

L = DETECTOR LOOP LENGTH (FROM PLANS)

W= DETECTR LOOP WIDTH (FROM PLANS)

S= SAWCUT LENGTH FROM DETECTOR LOOP TO FACE OF CURB (FROM PLANS)

T= LOOP WIRE TERMINAL LENGTH FROM FACE OF CURB TO PULL BOX (FROM PLANS)

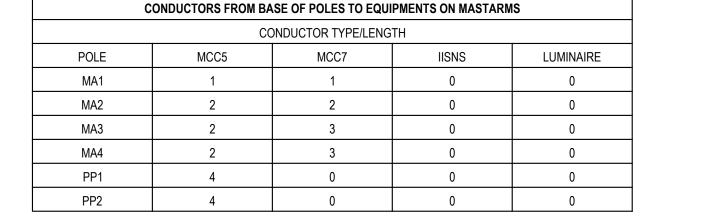
LOOP DETECTOR LEAD-IN CABLE TRACE							
LOOP#	FROM	TO	CONDUIT TRACE	LENGTH (FT)			
DL-1 (1)	PB4	CC	13-9-6-2	130			
DL-4 (1)(2)	PB12	CC	8-6-2	50			
DL-5 (1)	PB9	CC	28-31-2	125			
DL-7 (1)(2)	PB12	CC	8-6-2	50			
DL-8 (1)	PB13	CC	22-23-26	145			

Know what's below. Call before you dig. TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990		TE REM	REVISIONS	DESIGN		Ē	COND.dwg	
LARS Albuquerque		DATE			NED BY: LRT	N BY: LRT/SAE	NAME: 7-8_TS CC	

6501 Americas Pkwy NE, Suite 550 Albuquerque, New Mexico 87110 Phone (505) 883-8114 Fax (505) 883-5022 NOVUS PROPERTIES, LLC TRAFFIC SIGNAL

TITLE: PARADISE BLVD & PRICKLY PEAR ST TRAFFIC SIGNAL CONDUITS & CABLES - I

esign Review Committee	City Engineer			Mo./Day/Yr.	_
PPROVEN	IPPROVER	je.			_
Aug. 3, 2020	Aug. 3, 2020	Update			
DESIGN REVIEW COMMITTEE	CITY ENGINEER	Last			
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CONDUCTOR CABLE SHALL BE 24 VOLTS AND USED FOR PUSH BUTTONS ONLY.

	FUNCTION CHART - 115 VOLT CIRCUIT						
	MCC7 - SIGNAL HEADS						
	3 SECTION HEADS (THROUGH PHASES)	5 SECTION HEADS (LEFT TURN PHASES)	5 SECTION HEADS (THROUGH + LEFT PHASES)	5 SECTION HEADS (THROUGH + RIGHT PHASES)			
BASE COLOR	SIGNAL INTERVAL	SIGNAL INTERVAL	SIGNAL INTERVAL	SIGNAL INTERVAL			
RED	RED	RED ARROW	RED	RED			
GREEEN	GREEN	GREEN ARROW	GREEN	GREEN			
ORANGE	YELLOW	YELLOW ARROW	YELLOW	YELLOW			
BLUE	SPARE	SPARE	GREEN ARROW	GREEN ARROW			
BLACK	SPARE	SPARE	YELLOW ARROW	YELLOW ARROW			
WHITE	COMMON	COMMON	COMMON	COMMON			
WHITE/BLACK	SPARE	SPARE	SPARE	SPARE			

ABBREVIATIONS

MULTI-CONDUCTOR CABLE EVPD(O2) EMERGENCY VEHICLE PREEMPTION DETECTOR (PHASE)

FUNCTION CHART - 115 VOLT CIRCUIT							
MCC5-PEDESTRIAN HEADS							
BASE COLOR	FIELD CONNECTION						
GREEN	WALK						
RED	DON'T WALK						
WITE	COMMON						
ORANGE	SPARE						
BLACK	SPARE						

FUNCTION CHART - 24 VOLT CIRCUIT3					
MCC5-PUSH BUTTONS					
BASE COLOR	FIELD CONNECTION				
BLACK	Ф2Р				
WHITE	COMMON				
RED	Ф4Р				
GREEN	Ф6Р				
ORANGE	Ф8Р				

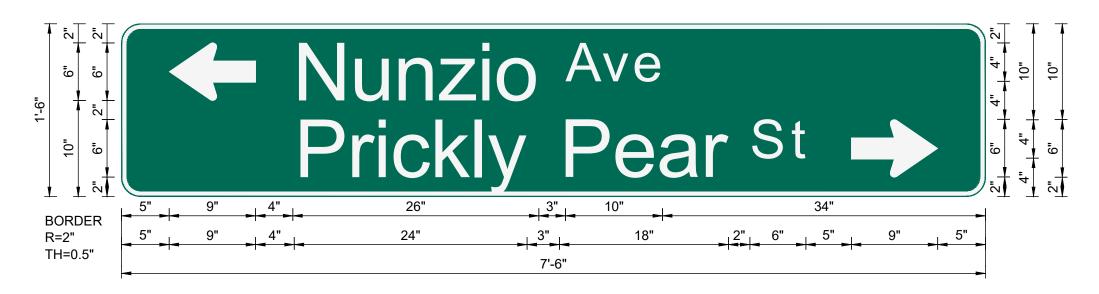
OPTICAL DETECTOR LEAD-IN CABLE							
OF HIGHL DETECTOR LEAD-IN GABLE							
MA1	CONTROLLER	5-4-2	1	50	50		
MA2	CONTROLLER	12-9-6-4-2	1	205	205		
MA3	CONTROLLER	19-20-23-26-28-31-2	1	310	310		
MA4	CONTROLLER	25-26-28-31-2	1	185	185		

DETECTOR RACK ASSEMBLIES												
UNIT NUMBER	POWER SUPPLY	1	2	3	4	5	6	7	8	9	10	11
CHANNEL 1		Ф2	Ф1	Ф4	Ф3					EVDPD(Φ2)	EVDPD(Φ2)	
CHANNEL 2		Ф6	Ф5	Ф8	ф7					EVDPD(Φ2)	EVDPD(Φ2)	
DECTOR MODULE REQUIRED	*	Х	x	Х	Х					Х	Х	
*POWER SUPPLY IS INCIDENTAL TO CONSTRUCTION												

Nunzio Ave Prickly Pear St TH=0.5"

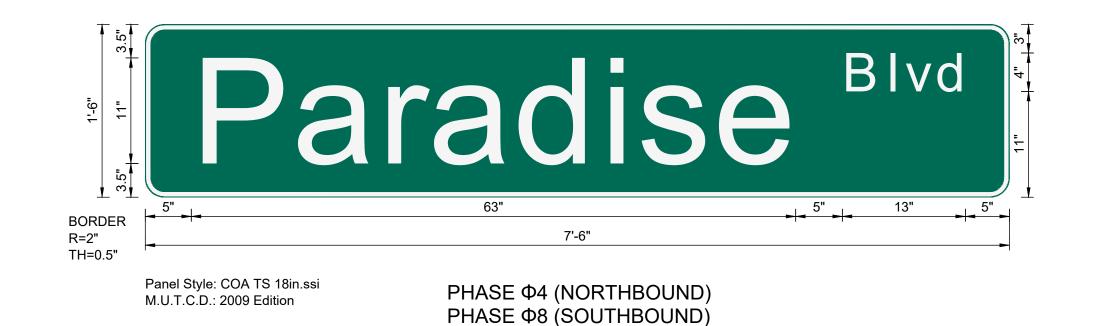
Panel Style: COA TS 18in.ssi M.U.T.C.D.: 2009 Edition

PHASE Φ2 (EASTBOUND)



Panel Style: COA TS 18in.ssi M.U.T.C.D.: 2009 Edition

PHASE Φ6 (WESTBOUND)



Albuquerque, New Mexico 87110 Phone (505) 883-8114 Fax (505) 883-5022

NOVUS PROPERTIES, LLC TRAFFIC SIGNAL

PARADISE BLVD & PRICKLY PEAR ST TRAFFIC SIGNALCABLES & CONDUITS - II

Design Review Committee			
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Aug 2 2020			
Aug. 3, 2020			
DESIGN REVIEW COMMITTE	E		

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APPROVEN	late	
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I, SCOTT A. EDDINGS OF THE FIRM OF HUITT-ZOLLARS, INC., A REGISTERED

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