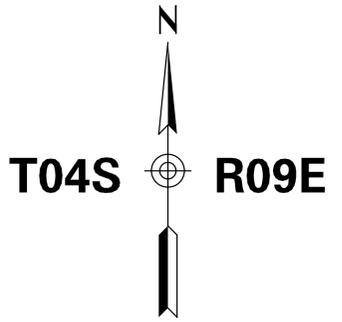


STATE OF ARIZONA  
 DEPARTMENT OF TRANSPORTATION  
 INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION

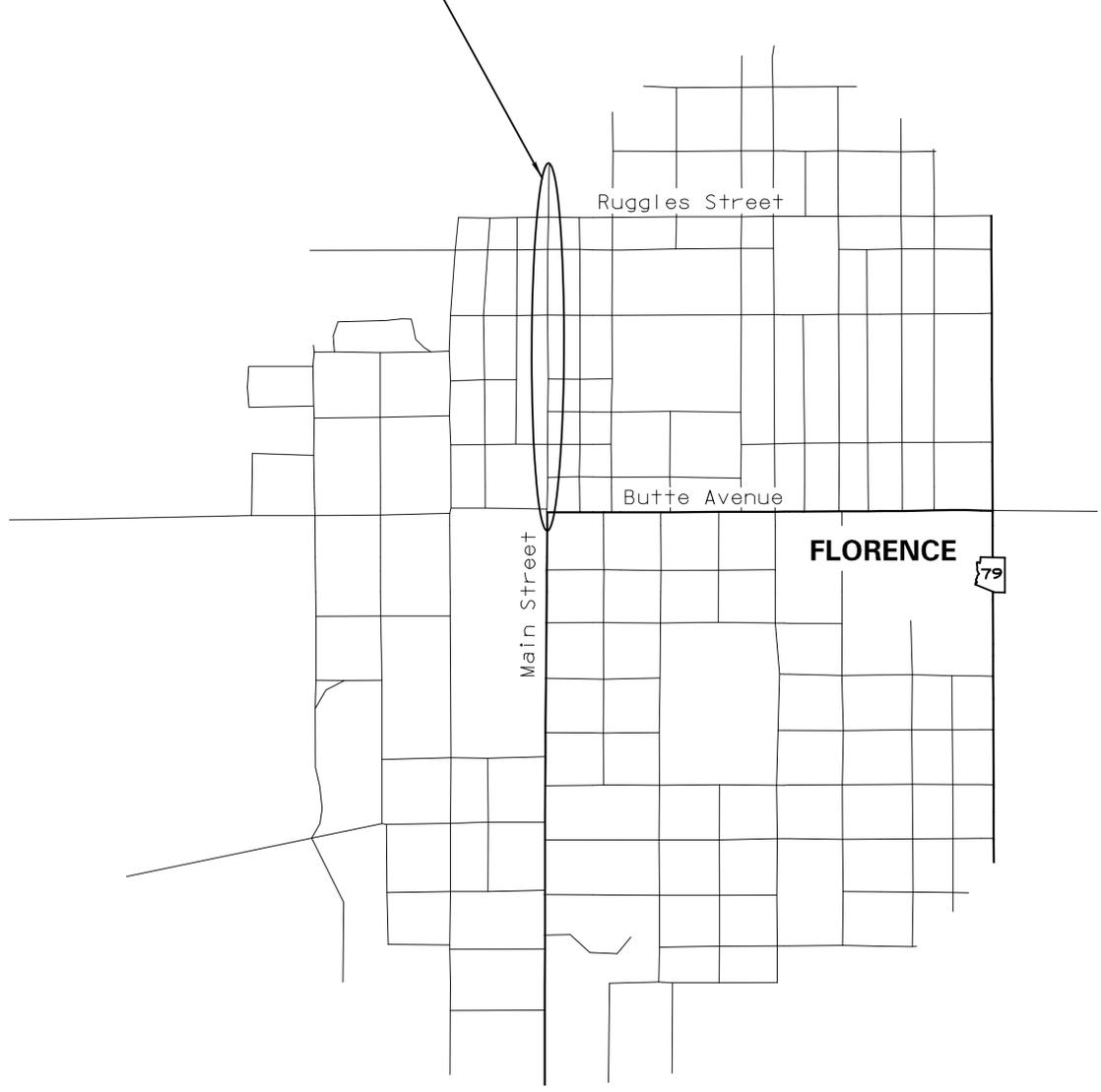


PROJECT PLANS

URBANIZED AREA  
 TOWN OF FLORENCE



LIGHTING AND SITE FURNITURE



*Constructed by:*

Construction Company \_\_\_\_\_

Completion Date \_\_\_\_\_

*Red-Lines by:*

Construction Administrator Name & Company \_\_\_\_\_

Completion Date \_\_\_\_\_

*Record Drawing by:*

Record Drawing Designer Name & Company \_\_\_\_\_

Completion Date \_\_\_\_\_

**MAIN STREET; RUGGLES STREET TO BUTTE AVENUE**

**PROJECT NO. 0000 PN FLO SL532 01 C**  
**FEDERAL AID NO. TEA-FLO-0(004)T**

ARIZONA DEPARTMENT OF TRANSPORTATION  
 INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION  
 DALLAS HAMMIT, P.E., STATE ENGINEER

RECORD DRAWING DATA	RECORD DRAWING DATE	_____ OF _____
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ADOT STANDARD DRAWINGS  
C STANDARDS

ISSUE OR REVISION DATE	STANDARD NO.	SUBJECT
5/12	C-01.10 SH 1	SYMBOL LEGEND
5/12	C-01.10 SH 2	SYMBOL LEGEND
5/12	C-01.10 SH 3	SYMBOL LEGEND
5/12	C-01.10 SH 4	SYMBOL LEGEND
5/12	C-01.30 SH 1	GENERAL ABBREVIATIONS
5/12	C-01.30 SH 2	GENERAL ABBREVIATIONS
5/12	C-01.30 SH 3	GENERAL ABBREVIATIONS
5/12	C-02.10	SLOPES, RURAL DIVIDED HIGHWAYS
5/12	C-02.20	SLOPES, RURAL UNDIVIDED AND FRINGE-URBAN HIGHWAYS
5/12	C-02.30	SLOPES, MISCELLANEOUS ROADWAYS
5/12	C-03.10 SH 1	DITCHES, CHANNELS, DIKES AND BERMS, DITCHES AND CHANNELS
5/12	C-03.10 SH 2	DITCHES, CHANNELS, DIKES AND BERMS, DIKES
5/12	C-03.10 SH 3	DITCHES, CHANNELS, DIKES AND BERMS, DITCH DIKE
5/12	C-03.10 SH 4	DITCHES, CHANNELS, DIKES AND BERMS, PIPE BERMS
5/12	C-03.10 SH 5	DITCHES, CHANNELS, DIKES AND BERMS, HEADWALL BERMS
5/12	C-04.10 SH 1	SPILLWAY, EMBANKMENT SINGLE INLET
5/12	C-04.10 SH 2	SPILLWAY, EMBANKMENT DOUBLE INLET
5/12	C-04.20 SH 1	DOWNDRAIN, EMBANKMENT SINGLE INLET
5/12	C-04.20 SH 2	DOWNDRAIN, EMBANKMENT DOUBLE INLET
5/12	C-04.30	SPILLWAY LENGTH TABLE
5/12	C-04.40	DOWNDRAIN LENGTH TABLE
5/12	C-04.50	DOWNDRAIN ENERGY DISSIPATOR
5/12	C-05.10	CURB & GUTTER, CURB, GUTTER
5/12	C-05.12 SH 1	CURB & GUTTER TRANSITIONS
5/12	C-05.12 SH 2	CURB & GUTTER TRANSITIONS
5/12	C-05.12 SH 3	CURB AND GUTTER TRANSITIONS
5/12	C-05.20 SH 1	CONCRETE DRIVEWAYS & SIDEWALKS, DRIVEWAYS
5/12	C-05.20 SH 2	CONCRETE DRIVEWAYS & SIDEWALKS, SIDEWALKS
5/12	C-05.30 SH 1	SIDEWALK RAMP, TYPE A
5/12	C-05.30 SH 2	SIDEWALK RAMP, TYPE B
5/12	C-05.30 SH 3	SIDEWALK RAMP, TYPE C
5/12	C-05.30 SH 4	SIDEWALK RAMP, TYPE D
5/12	C-05.30 SH 5	SIDEWALK RAMP, TYPE E
5/12	C-05.30 SH 6	SIDEWALK RAMP, TYPE F
5/12	C-05.30 SH 7	SIDEWALK RAMP, DETECTABLE WARNING STRIP
5/12	C-05.40	MEDIAN PAVING AND NOSE TAPER
5/12	C-05.50	CONCRETE BUS BAY
5/12	C-06.10 SH 1	DRIVEWAY & TURNOUT LAYOUTS
5/12	C-06.10 SH 2	DRIVEWAY & TURNOUT LAYOUTS
5/12	C-07.01 SH 1	PCCP JOINTS
5/12	C-07.01 SH 2	PCCP JOINTS
5/12	C-07.02	LOAD TRANSFER DOWEL ASSEMBLY
5/12	C-07.03 SH 1	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 2	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 3	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 4	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 5	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.03 SH 6	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.03 SH 7	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.03 SH 8	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.04 SH 1	PCCP JOINT LOCATIONS, PARALLEL TYPE ENTRANCE RAMP WITH AUXILIARY LANE
5/12	C-07.04 SH 2	PCCP JOINT LOCATIONS, PARALLEL TYPE EXIT RAMP WITH AUXILIARY LANE
5/12	C-07.04 SH 3	PCCP JOINT LOCATIONS, TAPER TYPE ENTRANCE RAMP
5/12	C-07.04 SH 4	PCCP JOINT LOCATIONS, TAPER TYPE EXIT RAMP
5/12	C-07.04 SH 5	PCCP JOINT LOCATIONS, CROSSROAD AND RAMP TERMINI
5/12	C-07.06	TRENCH BACKFILL AND PAVEMENT REPLACEMENT
5/12	C-08.20	PAVED GORE AREA
5/12	C-10.00	GUARDRAIL MEASUREMENT LIMITS
5/12	C-10.01	GUARDRAIL INSTALLATION, TYPE A AND REFLECTOR TAB
5/12	C-10.02	GUARDRAIL INSTALLATION, TYPE B AND REFLECTOR TAB
5/12	C-10.03	W-BEAM GUARDRAIL, G4(1W) AND G4(2W), BLOCKED-OUT TIMBER POST
5/12	C-10.04	W-BEAM GUARDRAIL, G4(1S), BLOCKED-OUT STEEL POST
5/12	C-10.05 SH 1	W-BEAM GUARDRAIL, G4(MODIFIED) WITH FREEWAY CURB AND GUTTER
5/12	C-10.05 SH 2	W-BEAM GUARDRAIL, G4(MODIFIED) WITH FREEWAY CURB AND GUTTER
5/12	C-10.06 SH 1	W-BEAM GUARDRAIL, NESTED, TYPES 1 AND 2
5/12	C-10.06 SH 2	W-BEAM GUARDRAIL, NESTED, TYPE 3
5/12	C-10.07 SH 1	W-BEAM GUARDRAIL, BOLTED ANCHOR
5/12	C-10.07 SH 2	W-BEAM GUARDRAIL, BOLTED ANCHOR
5/12	C-10.08	W-BEAM GUARDRAIL, END ANCHOR
5/12	C-10.20	THREE-BEAM GUARDRAIL, G9, BLOCKED-OUT STEEL POST
5/12	C-10.30 SH 1	GUARDRAIL TRANSITION, THREE BEAM TO CONCRETE HALF BARRIER, 32" TYPE 'F'
5/12	C-10.30 SH 2	GUARDRAIL TRANSITION, THREE BEAM TO CONCRETE HALF BARRIER, 32" TYPE 'F'
5/12	C-10.40	CONCRETE MEDIAN BARRIER, 32" TYPE 'F', CAST-IN-PLACE
5/12	C-10.41	CONCRETE MEDIAN BARRIER, 42" TYPE 'F', CAST-IN-PLACE
5/12	C-10.42 SH 1	GLARE SCREEN, CONCRETE MEDIAN BARRIER
5/12	C-10.42 SH 2	GLARE SCREEN, CONCRETE MEDIAN BARRIER
5/12	C-10.42 SH 3	GLARE SCREEN, CONCRETE MEDIAN BARRIER
5/12	C-10.50 SH 1	CONCRETE HALF BARRIER, 32" TYPE 'F', CAST-IN-PLACE
5/12	C-10.50 SH 2	CONCRETE HALF BARRIER, 32" TYPE 'F', PRECAST
5/12	C-10.51	CONCRETE HALF BARRIER, 32" TYPE 'F' WITH SIDEWALK
5/12	C-10.52	CONCRETE HALF BARRIER, 32" TYPE 'F' WITH GUTTER
5/12	C-10.53	CONCRETE HALF BARRIER, 42" TYPE 'F' WITH GUTTER
5/12	C-10.54 SH 1	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, CAST-IN-PLACE
5/12	C-10.54 SH 2	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, PRECAST
5/12	C-10.54 SH 3	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, LAYOUT
5/12	C-10.55 SH 1	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, CAST-IN-PLACE
5/12	C-10.55 SH 2	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, PRECAST
5/12	C-10.55 SH 3	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, LAYOUT
5/12	C-10.70 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
5/12	C-10.70 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
5/12	C-10.70 SH 3	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS

ISSUE OR REVISION DATE	STANDARD NO.	SUBJECT
5/12	C-10.71 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CURB & GUTTER
5/12	C-10.71 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CURB & GUTTER
5/12	C-10.72 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
5/12	C-10.72 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
5/12	C-10.72 SH 3	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
5/12	C-10.73 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH GUTTER
5/12	C-10.73 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH GUTTER
5/12	C-10.74	CONCRETE HALF-BARRIER TRANSITION, 42" TO 32" TYPE 'F'
5/12	C-10.75 SH 1	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F', TANGENT DEPARTURE TYPE 1
5/12	C-10.75 SH 2	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F', TANGENT DEPARTURE TYPE 2
5/12	C-10.76	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F' AT RADIUS, 32" TO 0"
5/12	C-10.77	CONCRETE HALF-BARRIER TRANSITION, END TERMINAL CURB AND GUTTER
5/12	C-11.10 SH 1	ROADWAY CATTLE GUARD
5/12	C-11.10 SH 2	ROADWAY CATTLE GUARD
5/12	C-11.10 SH 3	ROADWAY CATTLE GUARD
5/12	C-11.10 SH 4	ROADWAY CATTLE GUARD
5/12	C-11.20	CATTLE GUARD, DRAINAGE
5/12	C-12.10 SH 1	FENCE, WOVEN WIRE
5/12	C-12.10 SH 2	FENCE, BARBED WIRE
5/12	C-12.10 SH 3	FENCE, TYPES 1 AND 2 GATES, FLOOD GATE
5/12	C-12.10 SH 4	FENCE, FLOOD GATE INSTALLATION
5/12	C-12.10 SH 5	FENCE, MISCELLANEOUS DETAILS
5/12	C-12.20 SH 1	FENCE, CHAIN LINK, TYPE 1
5/12	C-12.20 SH 2	FENCE, CHAIN LINK, TYPE 2
5/12	C-12.20 SH 3	FENCE, CHAIN LINK, GATES
5/12	C-12.30 SH 1	FENCE, CHAIN LINK CABLE BARRIER
5/12	C-12.30 SH 2	FENCE, CHAIN LINK CABLE BARRIER
5/12	C-12.30 SH 3	FENCE, CHAIN LINK CABLE BARRIER
5/12	C-13.10 SH 1	PIPE CULVERT INSTALLATION
5/12	C-13.10 SH 2	PIPE CULVERT INSTALLATION
5/12	C-13.15	TYPICAL PIPE INSTALLATION
5/12	C-13.20	PIPE, REINFORCED CONCRETE END SECTION
5/12	C-13.25	PIPE, CORRUGATED METAL END SECTION
5/12	C-13.30	PIPE AND PIPE ARCH, CORRUGATED METAL, CONCRETE INVERT PAVING
5/12	C-13.55	PIPE, CATTLE-VEHICLE PASS, MITERED END TREATMENT
5/12	C-13.60	SLOTTED DRAIN DETAILS
5/12	C-13.65	SLOTTED DRAIN INSTALLATION DETAILS
5/12	C-13.70	STORM DRAIN CONNECTION DETAILS
5/12	C-13.75	STORM DRAIN OUTLET BARRIER GATE
5/12	C-13.76	STORM DRAIN OUTLET AND STORM DRAIN PLUG
5/12	C-13.80	PIPE COLLAR DETAILS
5/12	C-15.10	CATCH BASIN, TYPE 1
5/12	C-15.20 SH 1	CATCH BASIN, TYPE 3
5/12	C-15.20 SH 2	CATCH BASIN, TYPE 3
5/12	C-15.20 SH 3	CATCH BASIN, ACCESS FRAME AND COVER DETAILS
5/12	C-15.30	CATCH BASIN, TYPE 4
5/12	C-15.40 SH 1	CATCH BASIN, TYPE 5
5/12	C-15.40 SH 2	CATCH BASIN, TYPE 5
5/12	C-15.50	CATCH BASIN, FRAME AND GRATE
5/12	C-15.70 SH 1	CATCH BASIN, MISCELLANEOUS DETAILS
5/12	C-15.70 SH 2	CATCH BASIN, MISCELLANEOUS DETAILS
5/12	C-15.75	CATCH BASIN, DROP INLET
5/12	C-15.80	CATCH BASIN, FLUSH
5/12	C-15.81	CATCH BASIN, SIDE SLOPE
5/12	C-15.90	CATCH BASIN, MEDIAN DIKE, PRECAST
5/12	C-15.91 SH 1	FREEWAY CATCH BASIN DETAILS
5/12	C-15.91 SH 2	FREEWAY CATCH BASIN DETAILS
5/12	C-15.92 SH 1	CATCH BASIN WITH TYPE 'F' CONCRETE HALF BARRIER
5/12	C-15.92 SH 2	CATCH BASIN WITH TYPE 'F' CONCRETE HALF BARRIER
5/12	C-16.40	IRRIGATION SLEEVES
5/12	C-17.10	RAIL BANK PROTECTION FOR DRAINAGEWAYS, TYPES 1, 2 & 3
5/12	C-17.15	RAIL BANK PROTECTION AT ABUTMENTS, TYPES 4, 5 & 6
5/12	C-17.20	BANK PROTECTION FOR DRAINAGEWAYS, TYPES 7, 8 & 9
5/12	C-18.10 SH 1	MANHOLE, RISER DETAILS
5/12	C-18.10 SH 2	MANHOLE, BASE DETAILS, NORMAL INSTALLATION
5/12	C-18.10 SH 3	MANHOLE, FRAME AND COVER DETAILS
5/12	C-19.10 SH 1	FORD, CONCRETE WALLS
5/12	C-19.10 SH 2	FORD, TYPES 1 AND 2
5/12	C-21.10	SURVEY MONUMENT FRAME AND COVER
5/12	C-21.20	SURVEY MARKER

REV.: 05/12

ADOT STANDARD DRAWINGS		
REVISION DATES and STANDARD NO.'s REVIEW		
CONSTRUCTION Standards	NAME	DATE
	Francis Matlo	05/06/16
PROJECT NO.	0000 PN FLO SL532 01C	1A of 20
RECORD DRAWING FEDERAL AID NO.	FLO-0(004)T	of

**ADOT STANDARD DRAWINGS**  
**TRAFFIC SIGNAL AND LIGHTING STANDARDS**  
(SHEET 1 OF 2)  
EFFECTIVE MAY 2015

NO.1 DESCRIPTION OF REVISION REVISED STDS 1-2, 1-11, 2-7, 4-22, 5-0, 5-4, MADE BY L. LOPEZ DATE 03/15  
NO.2 DESCRIPTION OF REVISION REVISED TS 0-1, UPDATED BORDER TITLE BLOCK, MADE BY L. LOPEZ DATE 05/15

REVISION DATE	STANDARD NUMBER	SUBJECT:
		<b>TRAFFIC SIGNALS AND LIGHTING DETAILS</b>
	<b>T. S. 0</b>	<b>ABBREVIATIONS, SYMBOLS AND DEFINITIONS</b>
05/15	0-1	STANDARD ABBREVIATIONS
01/12	0-2 SHT 1	PLAN SYMBOLS
01/12	0-2 SHT 2	PLAN SYMBOLS
01/12	0-2 SHT 3	PLAN SYMBOLS
03/10	0-3 SHT 1	STANDARD DEFINITIONS
03/10	0-3 SHT 2	STANDARD DEFINITIONS
03/10	0-4	REFERENCE DOCUMENTS AND GENERAL REQUIREMENTS
	<b>T. S. 1</b>	<b>PULL BOXES</b>
09/11	1-1 SHT 1	LIGHT DUTY - LIGHT WEIGHT NO. 5 AND NO. 7 PULL BOX
09/11	1-1 SHT 2	LIGHT DUTY - LIGHT WEIGHT NO. 5 AND NO. 7 SLOPE WALL BODY PULL BOX DETAILS
03/15	1-2	HEAVY DUTY NO. 5 AND NO. 7 STRAIGHT BODY WALL PULL BOX DETAILS
09/11	1-3	REPLACEMENT LID SIZING FOR EXISTING NO. 5 AND NO. 7 PULL BOXES
09/11	1-4 SHT 1	TYPICAL PULL BOX INSTALLATION AND WIRING DETAILS
09/11	1-4 SHT 2	TYPICAL PULL BOX INSTALLATION AND WIRING DETAILS
09/11	1-4 SHT 3	TYPICAL PULL BOX INSTALLATION DETAILS
09/11	1-5 SHT 1	ELECTRICAL CONDUIT COVER AND TRENCH REQUIREMENTS
09/11	1-5 SHT 2	CONDUIT EXPANSION COUPLINGS
09/11	1-6	CONDUCTOR REQUIREMENTS
03/10	1-7	TRAFFIC SIGNAL IMSA CABLE COLOR CODES
09/11	1-8 SHT 1	FRONT OF BARRIER JUNCTION BOX
09/11	1-8 SHT 2	BACK OF BARRIER JUNCTION BOX
09/11	1-9	TOP OF BARRIER JUNCTION BOX DETAILS
09/11	1-10	TOP OF BARRIER JUNCTION BOX DETAILS
10/13	1-11 SHT 1	HEAVY DUTY LIGHTING NO. 4 AND NO. 6 PULL BOX
10/13	1-11 SHT 2	HEAVY DUTY LIGHTING NO. 4 AND NO. 6 PULL BOX
03/15	1-11 SHT 3	HEAVY DUTY LIGHTING NO. 4 AND NO. 6 PULL BOX LID
03/15	1-12 SHT 1	PRECAST HEAVY DUTY LIGHTING NO. 4B AND NO. 6B PULL BOX
03/15	1-12 SHT 2	PRECAST HEAVY DUTY LIGHTING NO. 4B AND NO. 6B PULL BOX
	<b>T. S. 2</b>	<b>FOUNDATIONS</b>
03/10	2-1	FOUNDATION FOR TYPE II LOAD CENTER CABINET
03/10	2-2	FOUNDATION FOR TYPE IV LOAD CENTER CABINET
03/10	2-3	FOUNDATION FOR TYPE III CONTROL CABINET
03/10	2-4	FOUNDATION FOR TYPE IV AND V CONTROL CABINETS
03/10	2-5	FOUNDATION FOR TYPE 340 CONTROL CABINET
03/10	2-6	METER PEDESTAL CABINET FOUNDATION AND BASE
03/15	2-7	TRAFFIC SIGNAL UPS CABINET FOUNDATION DETAIL
	<b>T. S. 3</b>	<b>CABINETS</b>
12/12	3-0	NOTES FOR TYPE II AND IV LOAD CENTER CABINETS
03/10	3-1	TYPE II LOAD CENTER CABINET
03/10	3-2	TYPE IV LOAD CENTER CABINET
03/10	3-3	TYPE II OR IV LOAD CENTER CABINET WIRING DETAILS 240/480 3W W/DISCONNECT
03/10	3-4 SHT 1	PHOTO ELECTRIC CELL MOUNTING DETAILS
03/10	3-4 SHT 2	PHOTO ELECTRIC CELL MOUNTING DETAILS
03/10	3-5 SHT 1	TYPE I AND II METER PEDESTAL CABINET
12/12	3-5 SHT 2	METER PEDESTAL CABINET
03/10	3-6	TYPE III CONTROL CABINET
03/10	3-7	POLE MOUNTED TYPE III CONTROL CABINET
03/10	3-8 SHT 1	POLE MOUNT DETAILS FOR TYPE III CONTROL CABINET
03/10	3-8 SHT 2	POLE MOUNT DETAILS FOR TYPE III CONTROL CABINET
03/10	3-9 SHT 1	TYPE IV AND V CONTROL CABINET NOTES
03/10	3-9 SHT 2	TYPE IV CONTROL CABINET
03/10	3-9 SHT 3	TYPE V CONTROL CABINET
03/10	3-10	CABINET EXTENSION OR ELEVATOR BASE
03/10	3-11	CONTROL CABINET MOUNTED SERVICE ENCLOSURE
03/10	3-12 SHT 1	120/240 OR 240/480 VOLT, SINGLE PHASE UTILITY PULL SECTION AND SERVICE DISCONNECT DETAILS
03/10	3-12 SHT 2	120/240 OR 240/480 VOLT, SINGLE PHASE UTILITY PULL SECTION AND SERVICE DISCONNECT DETAILS
03/10	3-13 SHT 1	TRAFFIC SIGNALS AND LIGHTING MODEL 345 CABINET DETAILS
03/10	3-13 SHT 2	TRAFFIC SIGNALS AND LIGHTING MODEL 345 CABINET DETAILS
03/10	3-13 SHT 3	TRAFFIC SIGNALS AND LIGHTING MODEL 345 CABINET CAGE DETAILS

REVISION DATE	STANDARD NUMBER	SUBJECT:
		<b>TRAFFIC SIGNALS AND LIGHTING DETAILS</b>
	<b>T. S. 4</b>	<b>POLES AND POSTS</b>
10/13	4-1	TYPE "A" POLE
10/13	4-2	TYPE "E" POLE
10/13	4-3	TYPE "F" POLE
10/13	4-4	TYPE "G" POLE
10/13	4-5	ALUMINUM TYPE "G" POLE
10/13	4-6	ALUMINUM TYPE "H" POLE
10/13	4-7	ALUMINUM TYPE "I" POLE
10/13	4-8	TYPE "J" POLE
10/13	4-9	TYPE "K" POLE
10/13	4-10	TYPE "Q" POLE
10/13	4-11	TYPE "R" POLE
10/13	4-12	TYPE "S" POLE
10/13	4-13	ALUMINUM TYPE "S" POLE
10/13	4-14 SHT 1	TYPE "T" POLE
10/13	4-14 SHT 2	TYPE "S" AND "T" STEEL TWIN LUMINAIRE MOUNTING BRACKET AND EXTENSIONS
10/13	4-15	ALUMINUM TYPE "T" POLE
10/13	4-16	TYPE "U" POLE ELLIPTICAL BASE DETAILS
10/13	4-17 SHT 1	TYPE "U" POLE SQUARE BASE
10/13	4-17 SHT 2	TYPE "U" POLE ROUND POLE / SQUARE BASE
03/10	4-17 SHT 3	TYPE "U" POLE ROUND POLE / SQUARE BASE
10/13	4-17 SHT 4	TYPE "U" POLE ROUND POLE / SQUARE BASE
10/13	4-17 SHT 5	TYPE "U" POLE ROUND POLE / SQUARE BASE
10/13	4-17 SHT 6	TYPE "U" POLE ROUND POLE / SQUARE BASE
10/13	4-18	TYPE "V" POLE AND 60' OR 65' MAST ARM
10/13	4-19	TYPE "W" POLE AND 60' OR 65' MAST ARM
03/10	4-20	POLE HAND HOLE DETAIL
03/10	4-21	EQUIPMENT MOUNTING HEIGHT DETAILS
03/15	4-22	PEDESTRIAN PUSH BUTTON POST "TYPE PB POLE"
10/13	4-23	POLE FOUNDATION ANCHOR BOLTS
03/10	4-26	STEEL MAST ARM DETAILS LUMINAIRE AND SIGNAL ARMS TO 20'
03/10	4-27	ALUMINUM TRUSS ARM DETAILS TYPE G, H, AND I POLES
03/10	4-28	SIGNAL MAST ARM CONNECTION DETAIL TYPE J AND Q POLES
03/10	4-29	SIGNAL MAST ARM CONNECTION DETAIL TYPE K AND R POLES
03/10	4-30	MAST ARM CONNECTION DETAIL TYPE V AND W POLES
03/10	4-31	SIGNAL MAST ARM TENON DETAIL
12/12	4-32	TYPICAL HIGHWAY LIGHTING OFFSETS IN CUT AND FILL SECTIONS
	<b>T. S. 5</b>	<b>POLE BASES - SPECIAL</b>
03/15	5-0	TYPE 2 AND 3 CAST ALUMINUM BREAK-AWAY BASES
12/12	5-1	TYPE 2 CAST ALUMINUM BREAK-AWAY BASE
12/12	5-2	TYPE 3 CAST ALUMINUM BREAK-AWAY BASE
12/12	5-3	INSTALLATION DETAILS FOR POLE FOUNDATIONS WITH TYPE 2 AND 3 BREAK-AWAY BASES
	<b>T. S. 6</b>	<b>HIGHWAY TRAFFIC DATA DETECTORS</b>
03/10	6-1	TYPE C VEHICLE DETECTOR LOOPS FOR TRAFFIC COUNTERS
03/10	6-2 SHT 1	TYPE SA AND SB SPEED/VEHICLE CLASSIFICATION SYSTEMS
03/10	6-2 SHT 2	TYPE SA SPEED/VEHICLE CLASSIFICATION SYSTEMS
03/10	6-2 SHT 3	TYPE SB SPEED/VEHICLE CLASSIFICATION SYSTEMS
12/12	6-3	PIEZOELECTRIC WEIGHT SENSOR AND LOOP LANE LAYOUT
12/12	6-4 SHT 1	DETECTOR LOOPS AND PIEZOELECTRIC SENSOR DETAILS
12/12	6-4 SHT 2	DETECTOR LOOPS AND PIEZOELECTRIC SENSOR DETAILS
03/15	6-4 SHT 3	DETAIL A PIEZOELECTRIC SENSOR DETAILS
12/12	6-4 SHT 4	DETAIL B DETECTOR LOOP DETAILS
12/12	6-4 SHT 5	DETECTOR LOOPS AND PIEZOELECTRIC SENSOR DETAILS
03/10	6-5	MICROLOOPS FOR SPEED/VEHICLE CLASSIFICATION
03/10	6-6	QUARTZ PIEZOELECTRIC WEIGHT SENSOR AND LOOP LANE LAYOUT
03/10	6-7	TRAFFIC DATA COLLECTION CABINET INSTALLATION DETAILS
03/10	6-8	TYPE MPD CABINET POLE, BASE AND FOUNDATION INSTALLATION DETAILS

ADOT STANDARD DRAWINGS		
REVISION DATES and STANDARD NO.'s REVIEW		
TRAFFIC SIGNAL & LIGHTING STANDARDS	NAME Francis Matto	DATE 05/06/16
PROJECT NO. 0000 PN FLO SL532 01C	1C-1	OF 20
RECORD DRAWING DATA	FEDERAL AID NO. FLO-0(004)T	REC. DWG. DATE OF

**ADOT STANDARD DRAWINGS**  
**TRAFFIC SIGNAL AND LIGHTING STANDARDS**  
(SHEET 2 OF 2)  
EFFECTIVE MAY 2015

NO.1 DESCRIPTION OF REVISION REVISED STDS 7-1, 11-1, 11-2, 13-3, ADDED NEW STD 1-12, MADE BY L. LOPEZ DATE 5/15  
NO.2 DESCRIPTION OF REVISION REVISED TS 0-1 ON SHT. UPDATED BORDER TITLE BLOCK, MADE BY L. LOPEZ DATE 5/15

REVISION DATE	STANDARD NUMBER	SUBJECT:
		<b>TRAFFIC SIGNALS AND LIGHTING DETAILS</b>
	<b>T. S. 7</b>	<b>TRAFFIC SIGNAL DETECTORS</b>
03/10	7-1 SHT 1	LOOP DETECTOR LOCATION SAWCUT PATTERNS AND INSTALLATION DETAILS
03/10	7-1 SHT 2	SAW CUT AND CORING DETAILS
03/15	7-1 SHT 3	SAW CUT AND CORING DETAILS
03/10	7-1 SHT 4	TYPICAL DETECTOR LOOP LEAD-IN ROAD TO PULL BOX DETAIL
03/10	7-1 SHT 5	LOOP DETECTOR LOCATION AND INSTALLATION DETAILS
03/10	7-2	PRE-FORMED LOOP DETECTORS FOR RAMP METERING AND COUNTING
03/10	7-3	PRE-FORMED LOOP DETECTORS IN BRIDGE DECK
03/10	7-4	PRE-FORMED LOOP DETECTORS IN PCCP
03/10	7-5	TYPICAL PRE-FORMED LOOP DETECTOR STUB-OUT DETAIL
	<b>T. S. 8</b>	<b>SIGNAL ASSEMBLIES</b>
01/12	8-0	TRAFFIC SIGNAL VEHICLE FACE ASSEMBLY REQUIREMENTS AND DETAILS
01/12	8-1	VEHICLE TRAFFIC SIGNAL FACE ASSEMBLY
01/12	8-2	VEHICLE TRAFFIC SIGNAL FACE ASSEMBLY
01/12	8-3	VEHICLE TRAFFIC SIGNAL FACE ASSEMBLY
10/13	8-4 SHT 1	12-INCH VEHICLE TRAFFIC SIGNAL HOUSING/SECTION
01/12	8-4 SHT 2	12-INCH VEHICLE TRAFFIC SIGNAL HOUSING/SECTION NOTES
01/12	8-4 SHT 3	VEHICLE TRAFFIC SIGNAL HOUSING/SECTION DETAILS
03/10	8-4 SHT 4	VISORS FOR 8-INCH AND 12-INCH VEHICLE TRAFFIC SIGNAL FACE ASSEMBLIES
01/12	8-5	FLASHING BEACON SIGNAL FACE ASSEMBLY
01/12	8-6	LED LAMP FOR PROGRAMMED VISIBILITY SIGNAL
01/12	8-7 SHT 1	PEDESTRIAN SIGNAL ASSEMBLY REQUIREMENTS AND DETAILS
01/12	8-7 SHT 2	PEDESTRIAN SIGNAL ASSEMBLY HOUSING
01/12	8-7 SHT 3	PEDESTRIAN SIGNAL ASSEMBLY VISOR
	<b>T. S. 9</b>	<b>MOUNTING ASSEMBLIES - SIGNAL</b>
03/10	9-0 SHT 1	MOUNTING ASSEMBLY GENERAL REQUIREMENTS
03/10	9-0 SHT 2	MOUNTING ASSEMBLY GENERAL REQUIREMENTS
03/10	9-1	TYPE I AND II MOUNTING ASSEMBLIES
03/10	9-2	TYPE III AND IV MOUNTING ASSEMBLIES
10/13	9-3	TYPE V MOUNTING ASSEMBLY
03/10	9-4	TYPE VI MOUNTING ASSEMBLY
03/10	9-5	TYPE VII MOUNTING ASSEMBLY
03/10	9-6	TYPE VIII MOUNTING ASSEMBLY
03/10	9-7	TYPE IX MOUNTING ASSEMBLY
03/10	9-8	TYPE X MOUNTING ASSEMBLY
03/10	9-9	TYPE XI MOUNTING ASSEMBLY
	<b>T. S. 10</b>	<b>MOUNTING CASTINGS - SIGNAL</b>
03/10	10-1	MISCELLANEOUS SIGNAL MOUNTING PARTS
03/10	10-2	MAST ARM SIGNAL MOUNTING PLUMBIZER
03/10	10-3	SIGNAL MOUNTING POLE PLATE DETAILS
03/10	10-4	TERMINAL COMPARTMENT, SIDE MOUNTED AND POLE TOP MOUNTED
	<b>T. S. 11</b>	<b>PEDESTRIAN DETAILS</b>
03/15	11-1	TYPE I PEDESTRIAN PUSH BUTTON HOUSING ASSEMBLY
03/15	11-2	CAN STYLE PEDESTRIAN PUSH BUTTON
	<b>T. S. 12</b>	<b>FLASHERS</b>
03/10	12-1 SHT 1	ADVANCE WARNING FLASHER POLE DETAIL
03/10	12-1 SHT 2	ADVANCE WARNING FLASHER POLE SIGN MOUNTING DETAILS
03/10	12-1 SHT 3	ADVANCE WARNING FLASHER POLE DETAIL
	<b>T. S. 13</b>	<b>ILLUMINATION - SIGNS</b>
03/10	13-1	SIGN LIGHTING DETAIL FOR TUBULAR SIGN STRUCTURES
03/10	13-2	FUSE PANEL DETAILS FOR SIGN LIGHTING
03/15	13-3	PLACEMENT OF LIGHTING FIXTURES FOR OVERHEAD SIGNS
	<b>T. S. 14</b>	<b>ILLUMINATION - SPECIAL</b>
03/10	14-1 SHT 1	HIGH PRESSURE SODIUM (HPS) LAMPS
03/10	14-1 SHT 2	HIGH PRESSURE SODIUM (HPS) LAMPS
03/10	14-1 SHT 3	HIGH PRESSURE SODIUM (HPS) LAMPS
03/10	14-2	PEDESTRIAN BRIDGE LIGHTING DETAILS

REVISION DATE	STANDARD NUMBER	SUBJECT:
		<b>TRAFFIC SIGNALS AND LIGHTING DETAILS</b>
	<b>T. S. 15</b>	<b>SPAN WIRE SIGNALS AND LIGHTING</b>
01/12	15-0 SHT 1	GENERAL NOTES
01/12	15-0 SHT 2	GENERAL NOTES
01/12	15-0 SHT 3	GENERAL NOTES
01/12	15-1 SHT 1	STEEL POLE TYPICAL DETAILS
01/12	15-1 SHT 2	STEEL POLE FOUNDATION DETAILS
01/12	15-1 SHT 3	STEEL POLE ATTACHMENT DETAILS
01/12	15-1 SHT 4	WOOD POLE TYPICAL DETAILS
01/12	15-1 SHT 5	WOOD POLE TYPICAL DETAILS
01/12	15-1 SHT 6	TYPICAL DETAILS
01/12	15-2	HANGER AND BALANCE ADJUSTER TYPICAL DETAILS
01/12	15-3 SHT 1	SIGNAL ASSEMBLY DETAILS
01/12	15-3 SHT 2	CONDUCTOR ENTRANCE HEADS TYPE A, B AND C
01/12	15-3 SHT 3	ALUMINUM PIPE EXTENSION AND TYPICAL DETAILS
01/12	15-4 SHT 1	ADJUSTABLE SIGN HANGER TYPICAL DETAILS
01/12	15-4 SHT 2	ADJUSTABLE SIGN HANGER TYPICAL DETAILS
01/12	15-4 SHT 3	ADJUSTABLE SIGN HANGER TYPICAL DETAILS
01/12	15-5	ADJUSTABLE HANGER TOP AND EXTENSION DETAILS
01/12	15-6	SIGNAL TETHER CLAMP TYPICAL DETAILS
01/12	15-7	POLE BAND TYPICAL DETAILS
01/12	15-8	WEATHERHEAD TYPICAL DETAILS

ADOT STANDARD DRAWINGS		
REVISION DATES AND STANDARD NO.'s REVIEW		
NAME	DATE	
Francis Matto	05/06/16	
PROJECT NO.	0000 PN FLO SL532 01C	1C-2 OF 20
RECORD DRAWING DATA	FEDERAL AID NO. FLO-0(004)T	REC. DWG. DATE _____ OF _____

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	FLO-0(004)T	2	20	

0000 PN FLO

### MIDPOINT OF PROJECT

Central Zone  
State Plane Coordinates  
X=50,000  
Y=56,300

### LENGTH OF PROJECT

Sta 0+50.32 to 16+57.18 = 1,606.86'  
Gross & Net Length = 1,606.86' - 0.30 Miles

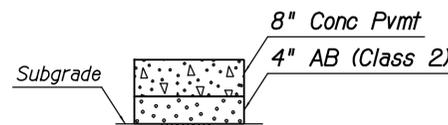
### DESIGN DATA

2013 AADT = 7,000  
Posted Speed = 15 MPH

### INDEX OF SHEETS

Sheet No.	Sheet Type
1	Face Sheet
1A & 1C	Construction Std Drawings
2	Design Sheet
3-5	Detail Sheets
6-8	Plan Sheets
9-10	Traffic Control Sheets
11-20	Lighting Sheets

SURVEY CONTROL POINTS			
Description	Ground (N)	Ground (E)	Elevation
FND BCHH	55308.497	50010.715	1487.55
FND BCHH	55698.038	50011.976	1485.10
FND BCHH	55883.049	50012.535	1483.52
FND BCHH	56067.778	50013.172	1482.44
FND BCHH	56437.987	50014.231	1481.14
FND BCHH	56808.722	50015.344	1479.72
FND BCF	57000.365	50015.933	1478.11



Total Thickness = 10"

### SECTION NO. 1

#### BASIS OF BEARINGS:

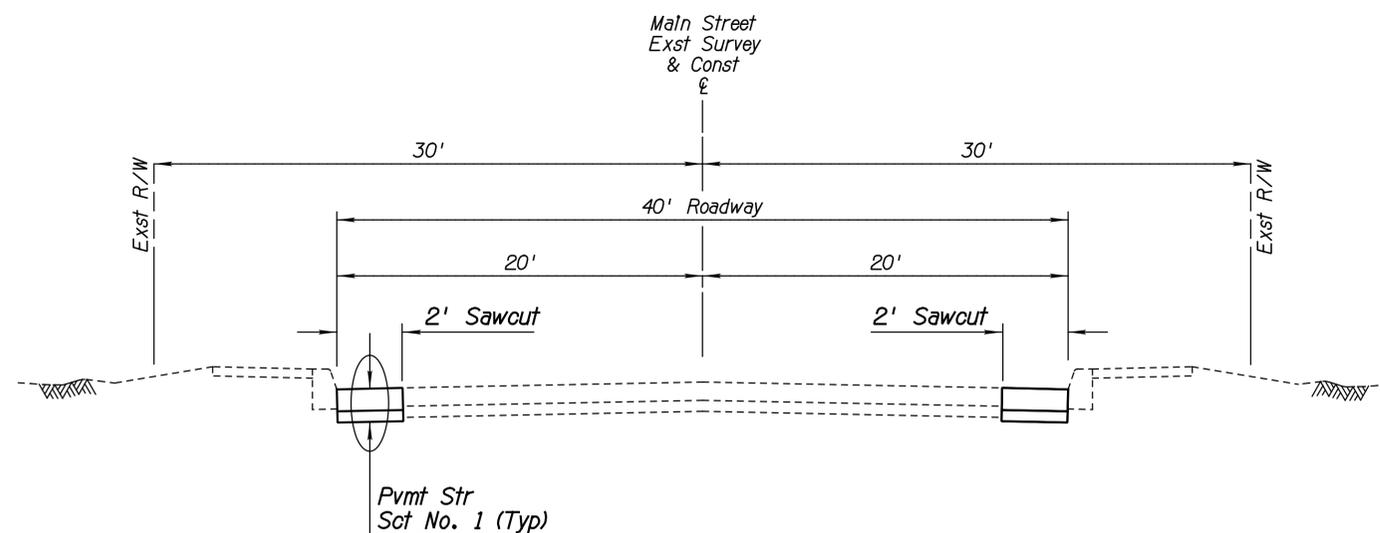
The Basis of Bearing shall be the monument line between the intersections of:  
North Main Street and East Butte Avenue (found brass cap in hand hole) and  
North Main Street and East Ruggles Street (found brass cap flush).  
Bearing being N00°10'36"E (assumed), horizontal distance being 1692.00' (measured).

#### BASIS OF ELEVATION:

Held elevation 1487.55 (Town of Florence Datum) at Found Brass Cap at the Intersection  
of North Main Street and East Butte Avenue (West Hand Hole).

### GENERAL NOTES

- The roadway plans have been designed utilizing the 2012 Construction Standard Drawings (C-Series) and current revisions. Refer to the 1A sheet for a listing of current revision dates.
- Where only the horizontal location of an existing utility is shown, the location is approximate. Where both the horizontal and vertical location of an existing utility is shown, the location has been verified by field survey methods. The contractor shall comply with all current Blue Stake laws and Section 107.15 of the Specifications.
- The average project elevation is 1483'.
- New Right of Way and easements are not required.



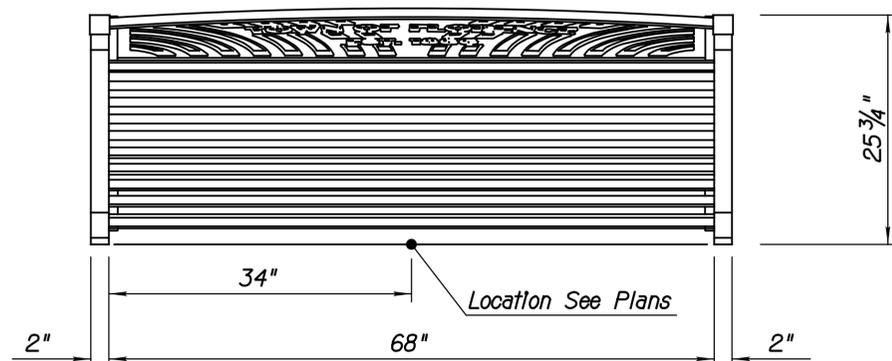
### TYPICAL SECTION

For Station Limits See Electrical Plans

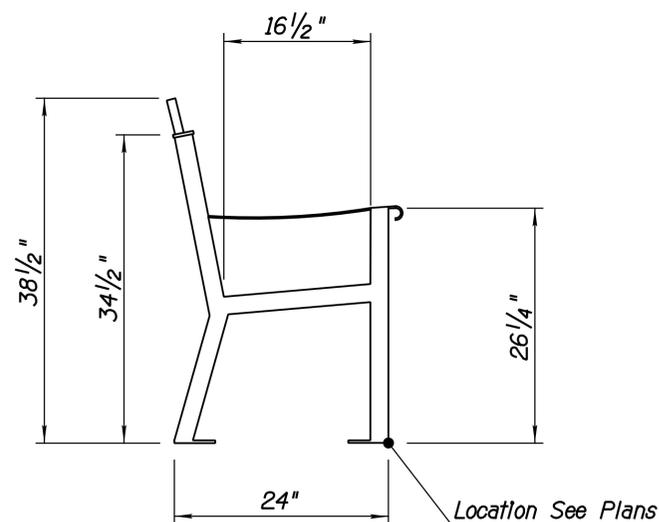
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DRAWN	JDH	05/16		
CHECKED	FLM	05/16		
<b>TY LIN INTERNATIONAL</b> engineers   planners   scientists 60 E. Rio Salado Parkway, Suite 501 Tempe, Arizona 85281, Tel. 480-968-8814			DESIGN SHEET	
ROUTE	N/A	LOCATION	MAIN STREET; RUGGLES STREET TO BUTTE AVENUE	DWG NO. G-01.01
TRACS NO.	SL 532 01C		FLO-0(004)T	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	FLO-0(004)T	3	20	

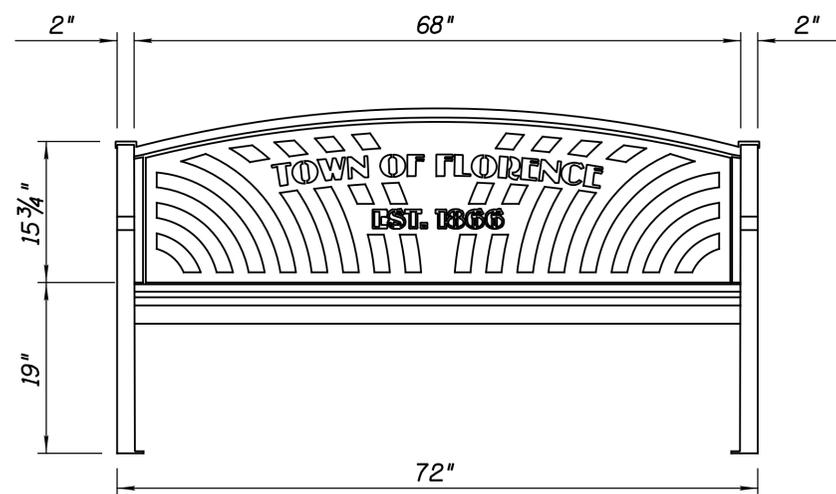
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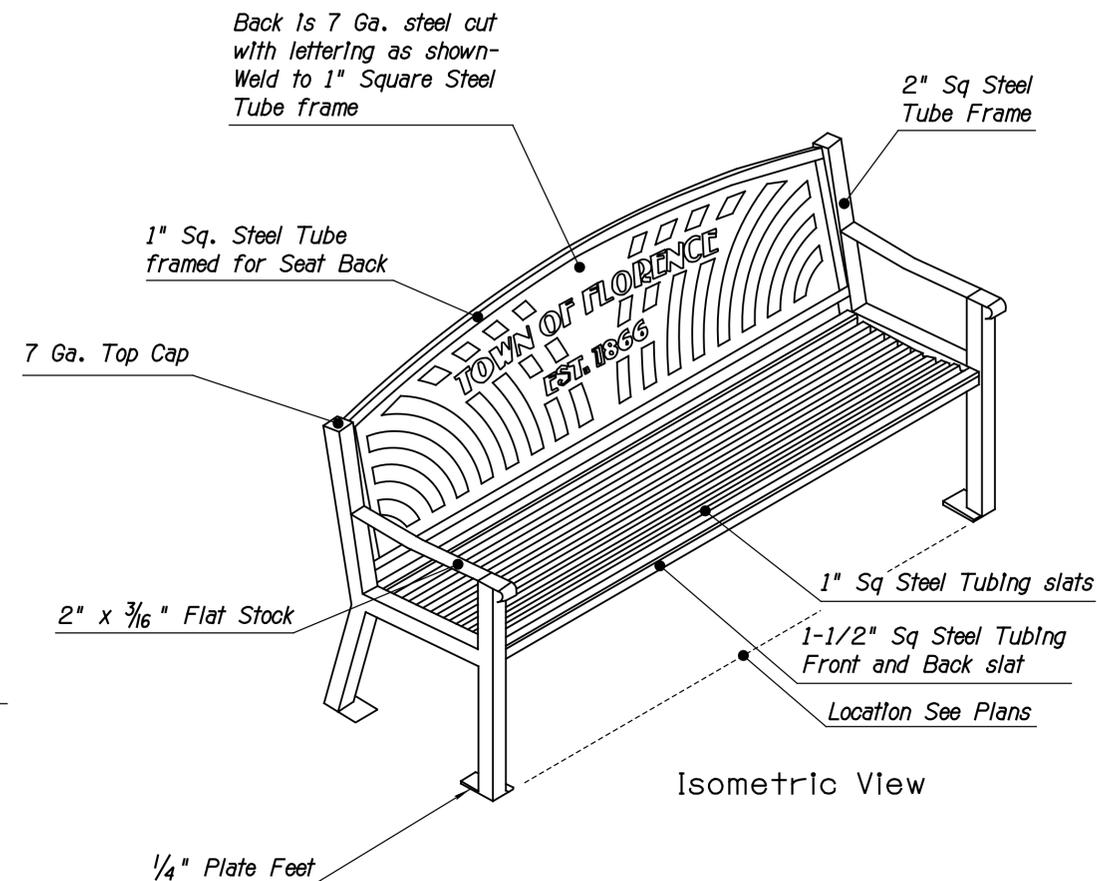
Plan View



Section View



Elevation View



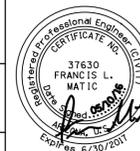
Isometric View

General Notes:

1. **Material:** 1" Sq. Steel Tubing, 2" Sq. Steel Tubing, 1-1/2" Sq. Steel Tubing, 2" x 3/16" Flat Stock, 7 Ga. Sheet Steel, 1/4" Plate
2. **Finish:** Powdercoat: Primer 511-000-002
3. **Craftsmanship:** Flatness, Straightness, Square, Flush Alignment of Surfaces, NO visible Imperfections.

# DETAIL A

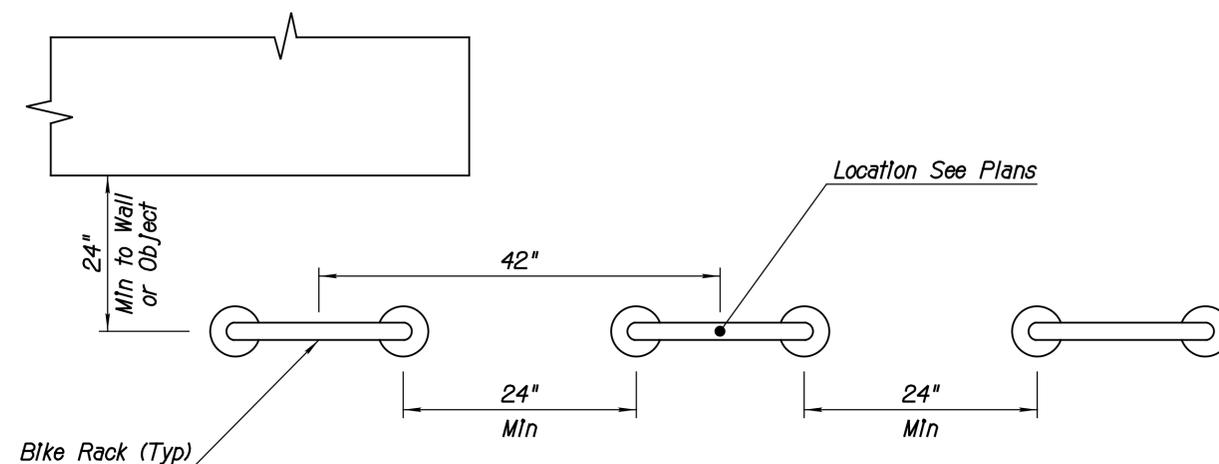
## BENCH DETAIL SHEET

DESIGN	JDH	DATE	05/16	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	JDH	DATE	05/16		
CHECKED	FLM	DATE	05/16		
<b>TY LIN INTERNATIONAL</b> engineers   planners   scientists 60 E. Rio Salado Parkway, Suite 501 Tempe, Arizona 85281, Tel. 480-968-8814				DETAIL SHEET A	
ROUTE	N/A	LOCATION	MAIN STREET; RUGGLES STREET TO BUTTE AVENUE		DWG NO. G-02.01
TRACS NO.	SL 532 01C		FLO-0(004)T		OF

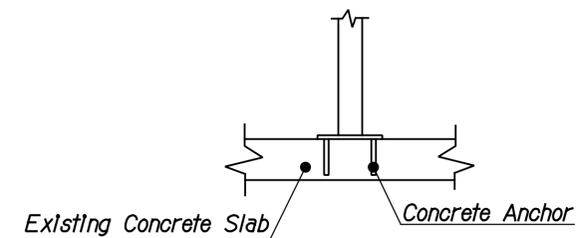
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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	FLO-0(004)T	4	20	

0000 PN FLO



Plan View  
(Three (3) Units Per Location)



Mounting Detail

General Notes:

1. *Material: Steel Tubing shall be Function First Bike Security: The Bike Rib 2.0, American Bicycle Security Company: Hoop Rack Heavy Duty, Sunshine U-LOK Corporation: Simple-Lok or approved equal.*
2. *Finish: Powdercoat Paint*
3. *Install surface mounted per manufacturers recommendations (See Mounting Detail)*

# DETAIL B

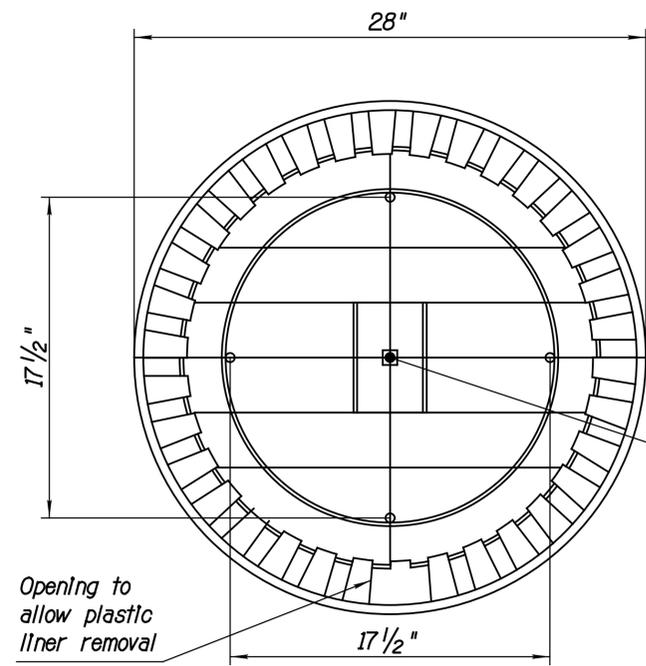
BIKE RACK DETAIL SHEET

DESIGN	JDH	DATE	05/16	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	JDH	DATE	05/16		
CHECKED	FLM	DATE	05/16		
<b>TY LIN INTERNATIONAL</b> engineers   planners   scientists 60 E. Rio Salado Parkway, Suite 501 Tempe, Arizona 85281, Tel. 480-968-8814		DETAIL SHEET B		DWG NO. 6-02.02	
ROUTE	N/A	LOCATION	MAIN STREET; RUGGLES STREET TO BUTTE AVENUE		
TRACS NO.	SL 532 01C	FLO-0(004)T		OF	

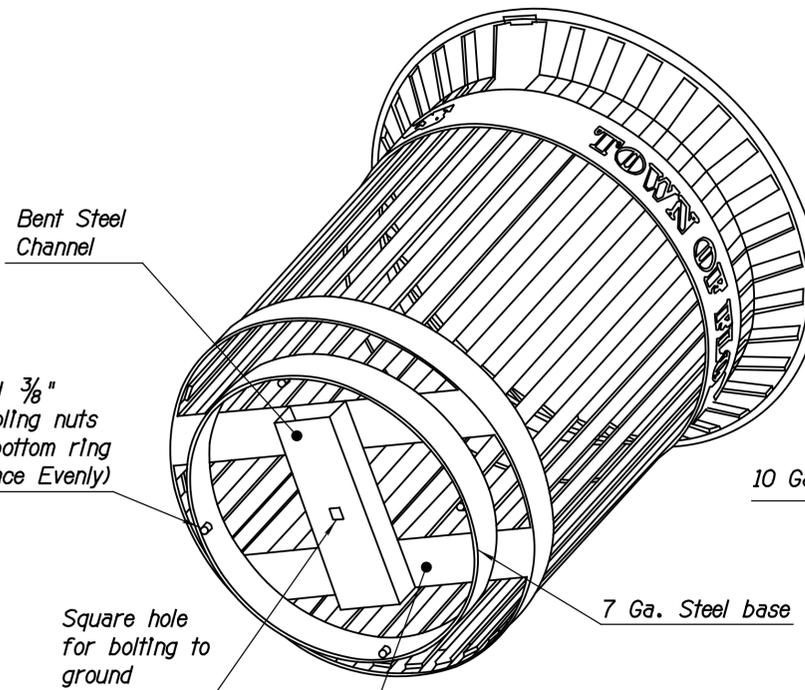
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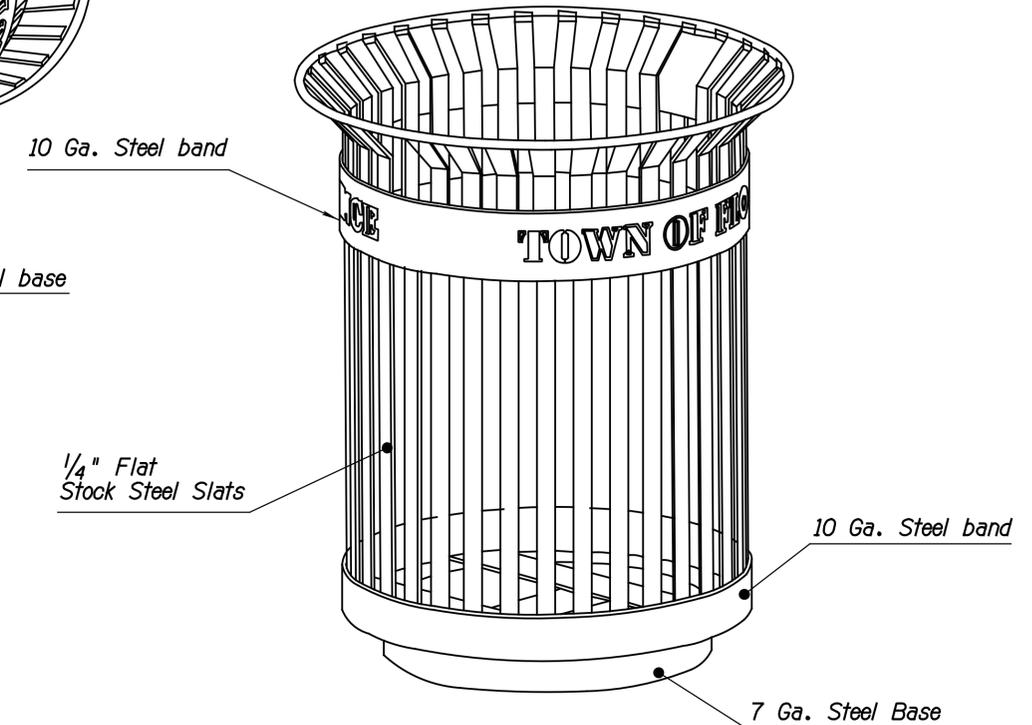
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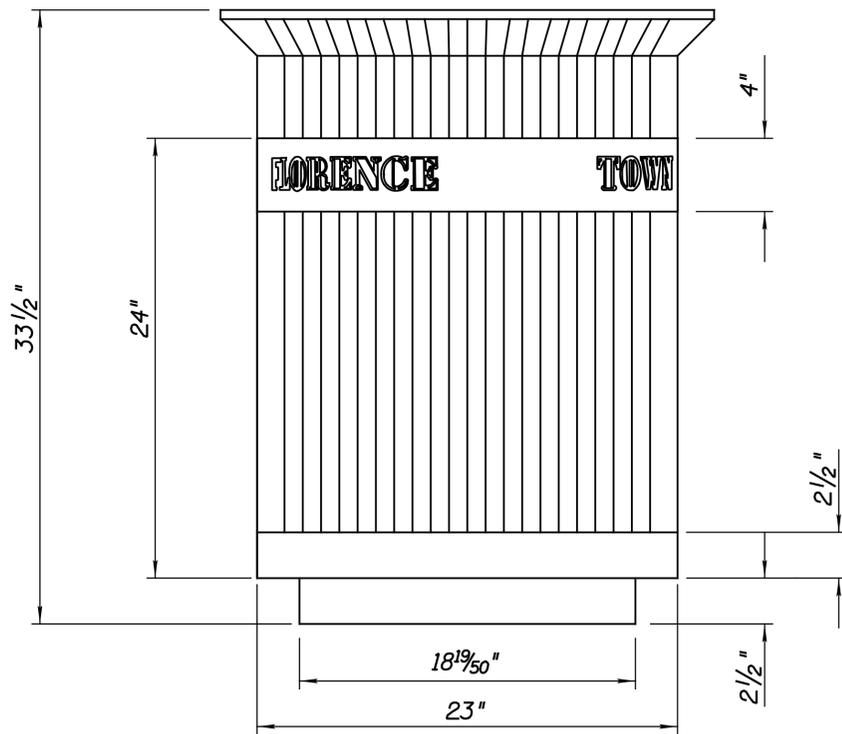
Plan View



Detail View of Bottom



Isometric View of Trash Receptacle WITHOUT Lid



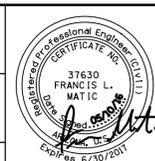
Elevation

General Notes:

1. Material: 5/8" Round Stock, 3 Ga. Sheet Steel, 7 Ga. Sheet Steel, 10 Ga. Sheet Steel, 14 Ga. Sheet Steel, 1/4" Flat Stock Steel
2. Finish: Powdercoat: Primer 511-000-002
3. Craftmanship: Flatness, Straightness, Square, Flush Alignment of Surfaces, NO visible Imperfections.
4. Receptacle to be designed for a 36 gallon plastic liner

# DETAIL C

TRASH RECEPTACLE DETAIL SHEET

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
JDH		05/16	
JDH		05/16	
FLM		05/16	
<b>TY-LIN INTERNATIONAL</b> engineers   planners   scientists 60 E. Rio Salado Parkway, Suite 501 Tempe, Arizona 85281, Tel. 480-968-8814			DETAIL SHEET C 
ROUTE	LOCATION		DWG NO. G-02.03
N/A	MAIN STREET; RUGGLES STREET TO BUTTE AVENUE		
TRACS NO. SL 532 01C		FLO-0(004)T	OF

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 LOCATION: SURVEY NO. FINISHED PLANS  
 REVISIONS:

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	FLO-0(004)T	6	20	

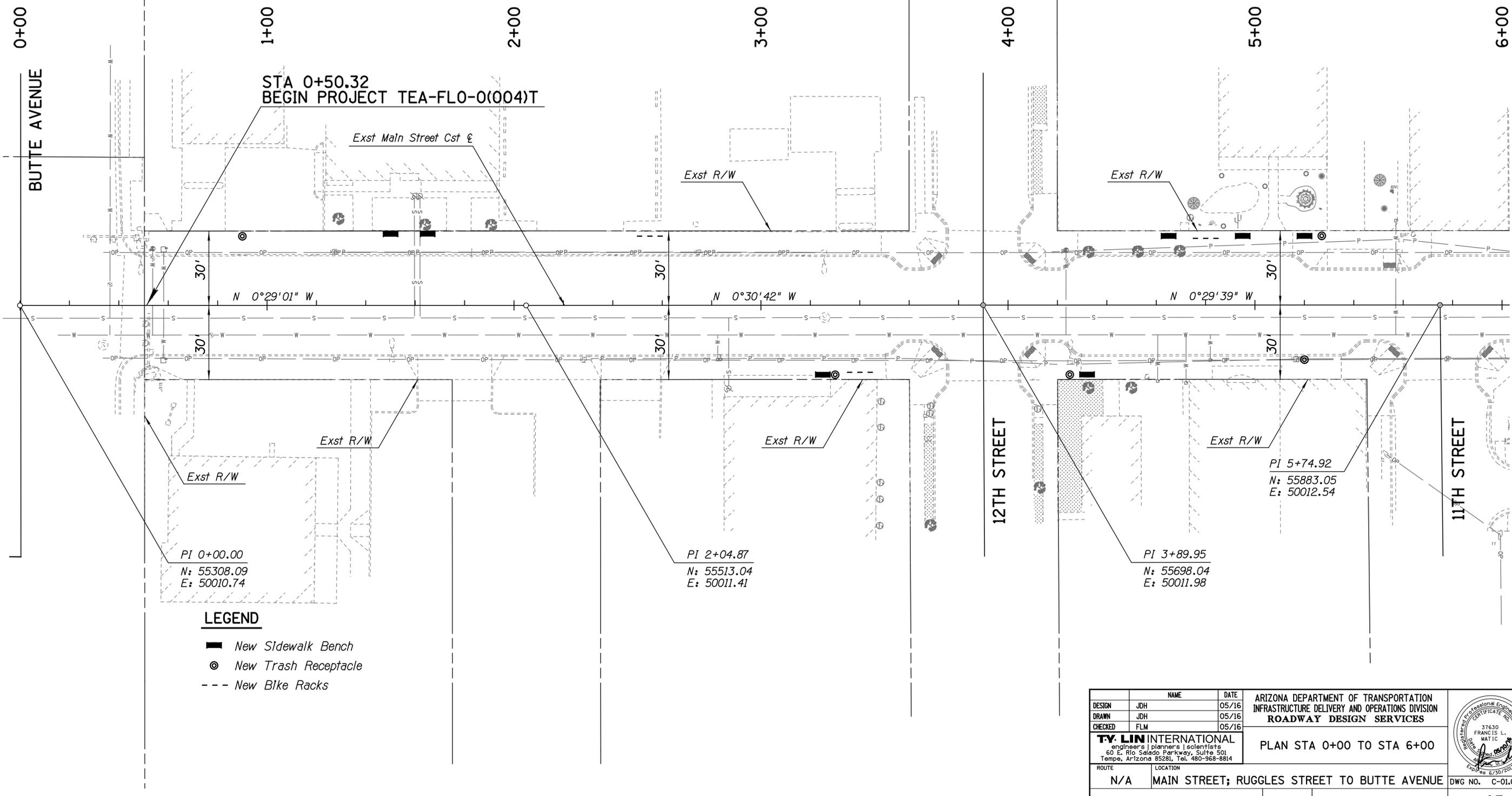
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Bench Locations	
Station	Offset
1+50	28' LT
1+65	28' LT
3+25	27' RT
4+32	27' RT
4+65	27' LT
4+95	27' LT
5+20	27' LT

Bike Rack Locations	
Station	Offset
2+55	28' LT
3+40	27' RT
4+80	27' LT

Trash Receptacle Locations	
Station	Offset
0+90	28' LT
3+30	28' RT
4+25	28' RT
5+20	22' RT
5+27	28' LT



PI 0+00.00  
N: 55308.09  
E: 50010.74

PI 2+04.87  
N: 55513.04  
E: 50011.41

PI 3+89.95  
N: 55698.04  
E: 50011.98

PI 5+74.92  
N: 55883.05  
E: 50012.54

**LEGEND**

- New Sidewalk Bench
- ⊙ New Trash Receptacle
- - - New Bike Racks

DESIGN	JDH	DATE	05/16	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>
DRAWN	JDH	DATE	05/16	
CHECKED	FLM	DATE	05/16	
<b>TY LUN INTERNATIONAL</b> engineers   planners   scientists 60 E. Rio Salado Parkway, Suite 501 Tempe, Arizona 85281, Tel. 480-968-8814				PLAN STA 0+00 TO STA 6+00 
ROUTE	N/A	LOCATION	MAIN STREET; RUGGLES STREET TO BUTTE AVENUE	
TRACS NO.	SL 532 01C		FLO-0(004)T	DWG NO. C-01.01

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 FINISHED PLANS

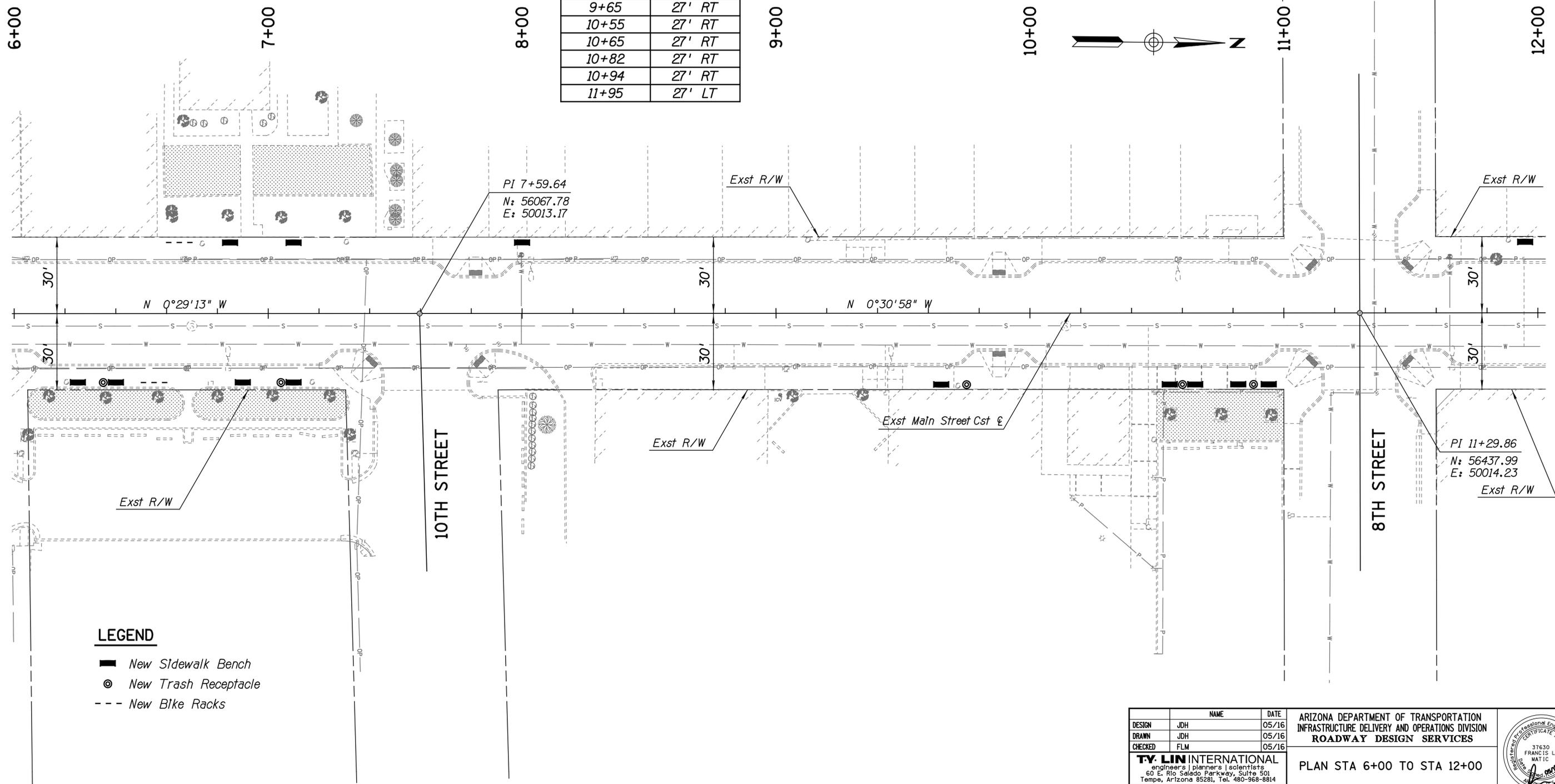
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	FLO-0(004)T	7	20	

0000 PN FLO

Bench Locations	
Station	Offset
6+25	26' RT
6+40	26' RT
6+85	27' LT
6+90	26' RT
7+10	27' LT
7+10	26' RT
8+00	27' LT
9+65	27' RT
10+55	27' RT
10+65	27' RT
10+82	27' RT
10+94	27' RT
11+95	27' LT

Bike Rack Locations	
Station	Offset
6+55	27' RT
6+65	28' LT

Trash Receptacle Locations	
Station	Offset
6+35	27' RT
7+05	27' RT
9+75	28' RT
10+60	28' RT
10+88	28' RT



**LEGEND**

- New Sidewalk Bench
- ⊙ New Trash Receptacle
- New Bike Racks

DESIGN	JDH	DATE	05/16	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>
DRAWN	JDH	DATE	05/16	
CHECKED	FLM	DATE	05/16	
<b>TY LIN INTERNATIONAL</b> engineers   planners   scientists 60 E. Rio Salado Parkway, Suite 501 Tempe, Arizona 85281, Tel. 480-968-8814				PLAN STA 6+00 TO STA 12+00 
ROUTE	N/A	LOCATION	MAIN STREET; RUGGLES STREET TO BUTTE AVENUE	DWG NO. C-01.02
TRACS NO. SL 532 01C			FLO-0(004)T	OF

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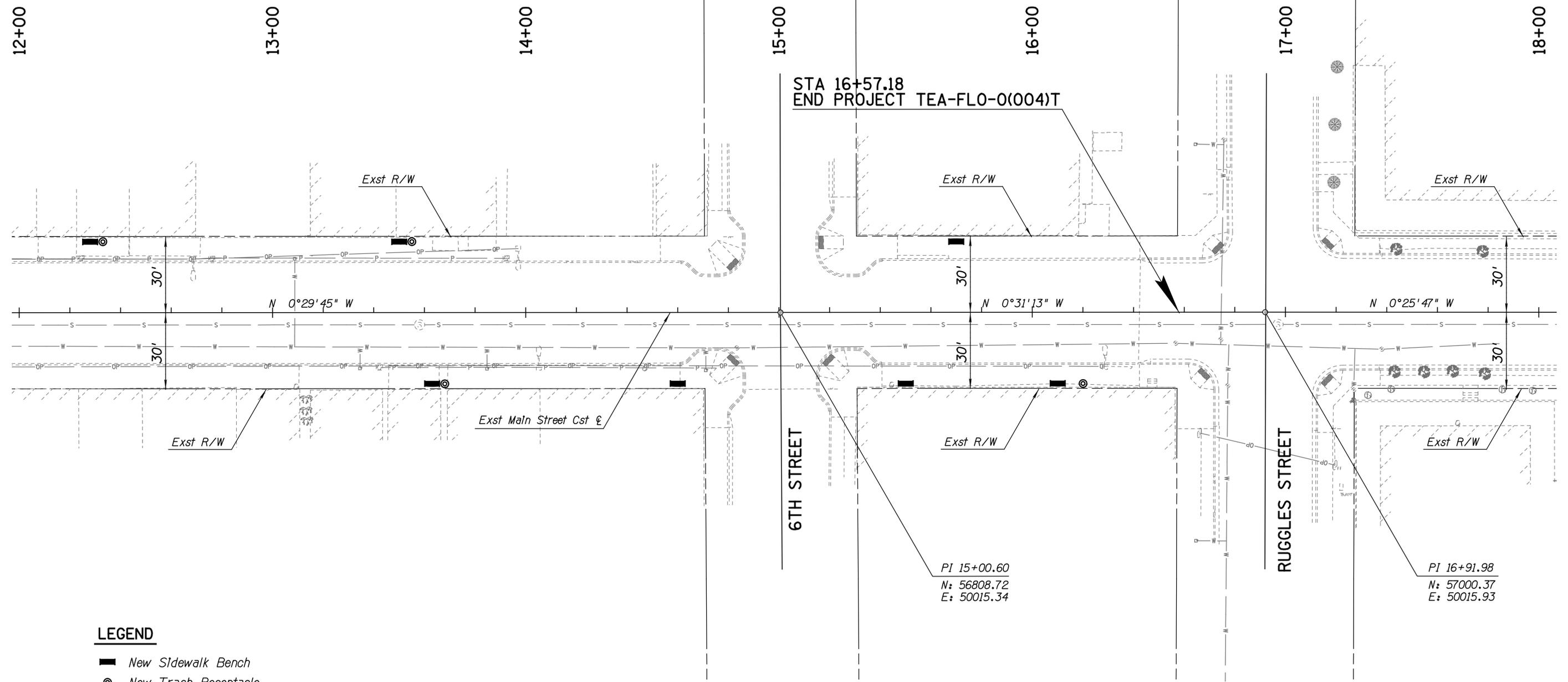
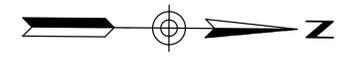
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 SURVEY NO. LOCATION- REVISIONS- DATE- SURVEY NO. LOCATION- REVISIONS- DATE-

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	FLO-0(004)T	8	20	

0000 PN FLO

Bench Locations	
Station	Offset
12+28	27' RT
13+50	27' LT
13+63	27' RT
14+60	27' RT
15+50	27' RT
15+70	27' LT
16+10	27' RT

Trash Receptacle Locations	
Station	Offset
12+33	28' LT
13+55	28' LT
13+68	28' RT
16+20	28' RT



**LEGEND**

- New Sidewalk Bench
- ⊙ New Trash Receptacle

DESIGN	JDH	DATE	05/16	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	JDH	DATE	05/16		
CHECKED	FLM	DATE	05/16		
<b>TY LIN INTERNATIONAL</b> engineers   planners   scientists 60 E. Rio Salado Parkway, Suite 501 Tempe, Arizona 85281, Tel. 480-968-8814		PLAN STA 12+00 TO STA 18+00		DWG NO. C-01.03	
ROUTE	N/A	LOCATION	MAIN STREET; RUGGLES STREET TO BUTTE AVENUE		
TRACS NO.	SL 532 01C		FLO-0(004)T	OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	FLO-0(004)T	9	20	

0000 PN FLO

**TRAFFIC CONTROL NOTES:**

- The retroreflective sheeting on all construction signs shall meet criteria established in Section 1007 of the Specifications.
- All signs shown on the plans shall be mounted on embedded posts. Signs installed on embedded posts shall be mounted at a minimum height of 7 feet as measured from the bottom of the sign to the near edge of the pavement. All other short-term signs may be installed on spring stands, at the height recommended by the spring stand manufacturer.
- The nearest edge or corner of a sign shall be approximately 12 feet from the nearest edge of pavement for all signs mounted on embedded posts.
- Flags shall be mounted on top of all construction signs except the "END ROAD WORK THANK YOU" sign.
- Type A flashing warning lights shall be required on all nighttime construction signs except the "END ROAD WORK THANK YOU" sign.
- Type C steady-burning yellow lights shall be mounted on every barricade.
- Channelizing devices shall be placed 30 feet on center in tapers and 60 feet on center in tangents, except as otherwise noted on plans.
- Construction signs shall not be displayed to traffic more than 24 hours prior to the actual start of construction. These signs may be installed sooner but they must be covered or turned away from traffic. The cost for covering or turning them shall be considered part of the sign installation cost. No further compensation will be made. These signs shall be removed within 24 hours after the completion of construction activities.
- All construction signs shall have black letters on an orange background, except as otherwise noted.
- Where no closure is necessary but where there is construction alongside a roadway under construction, the contractor shall place a 36 x 36 inch "ROAD WORK AHEAD" and "SHOULDER WORK AHEAD" sign as directed by the Engineer to alert the public to the construction activities.
- When traffic control devices are not in use, they shall be moved at least 30 feet from the roadway.
- The contractor shall maintain two-way traffic on Main Street at night, on weekends, on holidays, and as directed by the Engineer.
- The contractor shall utilize a flashing arrow panel in the sequential chevron mode for each closure of a through lane. The contractor shall not utilize a flashing arrow panel in connection with any shifting taper.
- All drawings are schematic only and not to scale.
- The traffic control plans represent a suggested method for traffic control during construction. The contractor may prepare another traffic control plan in accordance with Section 701 of the Specifications. All traffic control plans are subject to the approval of the Engineer before beginning construction.
- Adjustments to the details of these traffic control plans and requirements may be necessary due to construction activities or as directed by the Engineer.
- All existing pavement markings in conflict with the traffic control plans shall be removed by approved methods, as indicated in the specifications.

BID ITEM NO.	ELEMENT OF WORK	UNIT	PHASE		CONSTRUCTION			GRAND TOTAL	
			ACTIVITY	ADV. SIGN	1	2	3		TOTAL
			CALENDAR DAYS	TOTAL	49	35	14		49
	DURATION			49	35	14	49		
		WORK DAYS		35	25	10	35		
7016031	BARRICADE (TYPE III, HIGH LEVEL FLAG TREES)	EACH-DAY	-	-	980	336	1,316	1,316	
7016033	PORTABLE SIGN STANDS (SPRING TYPE)	EACH-DAY	392	392			-	392	
7016035	WARNING LIGHTS (TYPE A)	EACH-DAY	392	392	-	-	-	392	
7016037	WARNING LIGHTS (TYPE C)	EACH-DAY	-	-	980	336	1,316	1,316	
7016047	TEMPORARY SIGN (TYPE II) (LESS THAN 10 S.F.)	EACH-DAY	392	392	980	336	1,316	1,708	

DESIGN	JDH	DATE	05/16	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	JDH	DATE	05/16		
CHECKED	FLM	DATE	05/16		
<b>TY LIN INTERNATIONAL</b> engineers   planners   scientists 60 E. Rio Salado Parkway, Suite 501 Tempe, Arizona 85281, Tel. 480-968-8814				<b>TRAFFIC CONTROL NOTES AND QUANTITIES</b>	
ROUTE	LOCATION			DWG NO.	T-01.01
N/A	MAIN STREET; RUGGLES STREET TO BUTTE AVENUE				
TRACS NO. SL 532 01C				FLO-0(004)T	
				OF	

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 SURVEY NO.  
 LOCATION  
 REVISIONS-  
 FINISHED PLANS-

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	FLO-0(004)T	10	20	

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### MAINTENANCE AND PROTECTION OF TRAFFIC

ACTIVITY	CONSTRUCTION ACTIVITY DESCRIPTION	TRAFFIC CONTROL	COMMENTS
<b>ADVANCED SIGNING PLACEMENT</b>			
1	Install the advance project signing along Main Street, 12th Street, 11th Street, 10th Street, 8th Street, and 6th Street.	Install 36"x36" Road Work Ahead (W20-1) advance signing as shown on 2009 Manual on Uniform Traffic Control Devices (MUTCD) TA-4 for short-duration or mobile operation on a shoulder.	The contractor shall only use the staging and work areas approved by the Engineer.
<b>CONSTRUCTION</b>			
2	On east side of Main Street, remove existing lighting and overhead electrical lines; install new lighting, benches, trash receptacles, and bike racks.	Provide pedestrian control as shown on 2009 Manual on Uniform Traffic Control Devices (MUTCD) TA-28 on the east side of Main Street.	Maintain two way traffic at all times.  With the exception of short term closure (as approved by the Engineer) maintain driveway and sidewalk access to all adjacent businesses.
3	On west side of Main Street, remove existing lighting and overhead electrical lines; install new lighting, benches, trash receptacles, and bike racks.	Provide pedestrian control as shown on 2009 Manual on Uniform Traffic Control Devices (MUTCD) TA-28 on the west side of Main Street.	Maintain two way traffic at all times.  With the exception of short term closure (as approved by the Engineer) maintain driveway and sidewalk access to all adjacent businesses.

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 Revisions: [ ]  
 Location: [ ]  
 PenTable: STDPLLOT.TBL  
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 Finished Plans: [ ]

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
DESIGN	JDH	05/16		
DRAWN	JDH	05/16		
CHECKED	FLM	05/16	<b>TY LIN INTERNATIONAL</b> <small>engineers   planners   scientists</small> 60 E. Rio Salado Parkway, Suite 501 Tempe, Arizona 85281, Tel. 480-968-8814	<b>MAINTENANCE AND PROTECTION OF TRAFFIC TABLE</b>
ROUTE	LOCATION		DWG NO.	
N/A	MAIN STREET; RUGGLES STREET TO BUTTE AVENUE		T-02.01	
TRACS NO. SL 532 01C			FLO-0(004)T	OF

GENERAL NOTES

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ	FLO-0(004)T	11	20	

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- All lighting and related conduit/wire work shall conform unless noted otherwise to the 2008 Edition of the ADOT Standard Specifications for Road and Bridge Construction and the 2010 Edition of the Standard Drawings for Traffic Signals and Lighting along with any subsequent amendments prior to bid date for highway lighting.
- Existing conduit runs are diagrammatic and are based solely on existing As-Built plans. Exact location of conduit runs and pull box locations shall be field verified prior to any excavation or removal work.
- Pole offset shall be measured from construction centerline indicated to center of pole as indicated on pole schedule. Refer to Lighting Plan Sheets for additional information.
- All existing equipment and lighting systems shall remain in operation unless otherwise noted. The contractor shall coordinate and receive approval of any outages from Engineer.
- The contractor shall notify the Engineer in writing when field adjustment of poles is necessary to avoid conflict with utilities or construction. The contractor shall stake new location of poles for review by Engineer prior to any work.
- The contractor shall locate all existing utilities whether shown herein or not and shall protect them from damage. The contractor shall bear all expenses for repair or replacement in conjunction with execution of this contract.
- The contractor shall through the Engineer contact Jim Lowe of APS at (off. 520-421-8390; cel 602-206-2478) a minimum of 30 days before any service work is required.
- The contractor shall refer to all Lighting Plan Sheets for coordination of conduit installations routed adjacent to and over existing or new utilities.
- LED drivers shall be rated and operable at the existing circuit volts, single phase. Existing APS power source shall remain in place and fully operational throughout the construction period unless otherwise noted.
- The contractor shall refer to other drawings for location of underground utilities and coordinate all conduit modifications and installation requirements with other trade groups.
- The contractor shall recircult and reconnect all electrical equipment circuits, etc., not indicated to be removed which may become severed from its normal power supply.
- Top of new pole foundations shall be set flush with surrounding final grade elevations of the sidewalk. The contractor shall assure that water does not collect in pole base.
- New luminaires shall be post top, LED units, full cutoff type with flat lens.

- Each luminaire shall be individually protected by fuse.
- Orient pole base to roadway such that the luminaire photometrics are 90 degrees to the direction of travel.
- The contractor shall replace any non-operating LED units at anytime during the construction period up to final acceptance of the project by the Engineer at no additional cost to the Department.
- The contractor shall provide conduit trench, conduit, pull boxes and install 2500 lb rated mule tape. The contractor shall close trench after conduit/pull box system has been inspected and approved by APS.
- The contractor shall furnish and install pole, mast arms, luminaires and 3\*10 from LED driver down pole to pull box adjacent pole for connecting to main run conductors, including fusing as required by APS.
- The work included with this project includes removal of the overhead street lighting wire. The contractor shall coordinate with APS through the Engineer the removal of the overhead street lighting wire and supports, connectors, etc. associated with the street lighting overhead wiring system. The work shall be paid for as a part of Bid Item 9240011-Force Account Work (APS Overhead Line Removals).
- Prior to removal of steel poles and/or pole foundation, the contractor shall sawcut the sidewalk (1 foot x 1 foot or 3 feet x 3 feet) per the appropriate Detail 'C' or 'D', dwg No. E-8.0.

SYMBOL LEGEND

Existing	New	
		Existing APS Street Light Luminaires, Mast Arms, Steel Pole
		New post top LED street light
		Existing 15 ft concrete pole and foundation with acorn post top light
		#3 1/2 Pullbox
		#5 Pullbox
		#7 Pullbox
		Load Center Cabinet Type IV (ADOT 1990 T.S. 3-8 w/T.S. 2-4 Foundation) U.N.O.
		Meter pedestal
		Power Pole with RIser
		Overhead Power
		Conduit, Underground
		X = Conduit Run Number, refer to Conductor Schedule
		1 = Pole Number
		Construction Keynote Designation

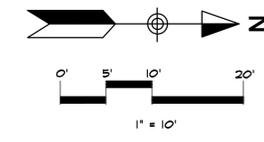
DESIGN	R. ALCALA	05/16	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	S. COOPER	05/16		
CHECKED	R. ALCALA	05/16		
			LIGHTING PLAN GENERAL NOTES	EXPIRES 3/31/2017
PROJECT #11009-2	ROUTE	LOCATION	DWG No. E-0.0	
N/A	MAIN STREET; RUGGLES STREET TO BUTTE AVENUE		FLO-0(004)T	
TRACS NO.	SL532 01C	FLO-0(004)T		OF

DATE: LOCATION: REVISIONS: FINISHED PLANS: SURVEY NO. DATE: LOCATION: REVISIONS: FINISHED PLANS: SURVEY NO.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ	FLO-0(004)T	12	20	

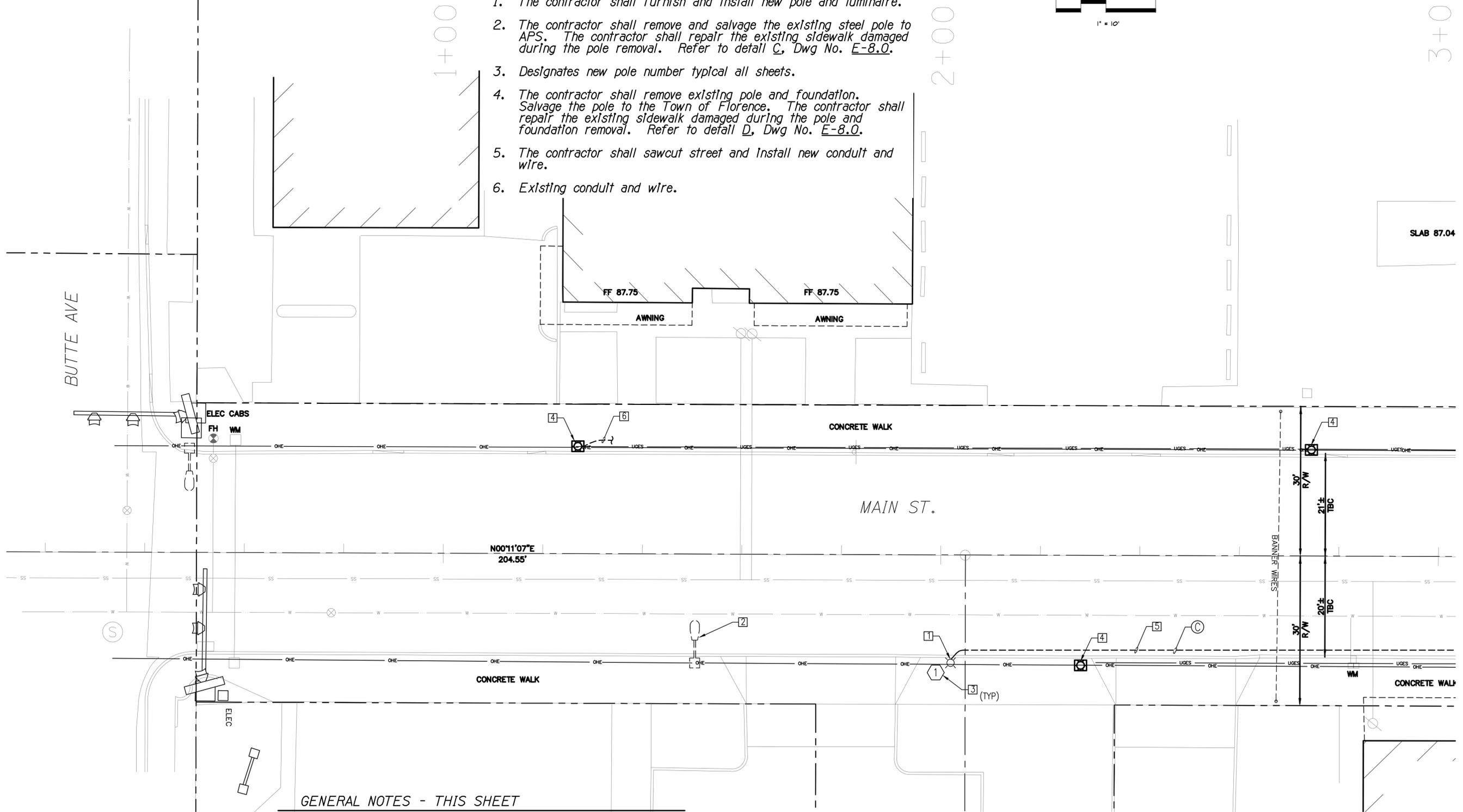
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3+00



**KEY NOTES - THIS SHEET**

1. The contractor shall furnish and Install new pole and luminaire.
2. The contractor shall remove and salvage the existing steel pole to APS. The contractor shall repair the existing sidewalk damaged during the pole removal. Refer to detail C, Dwg No. E-8.0.
3. Designates new pole number typical all sheets.
4. The contractor shall remove existing pole and foundation. Salvage the pole to the Town of Florence. The contractor shall repair the existing sidewalk damaged during the pole and foundation removal. Refer to detail D, Dwg No. E-8.0.
5. The contractor shall sawcut street and Install new conduit and wire.
6. Existing conduit and wire.

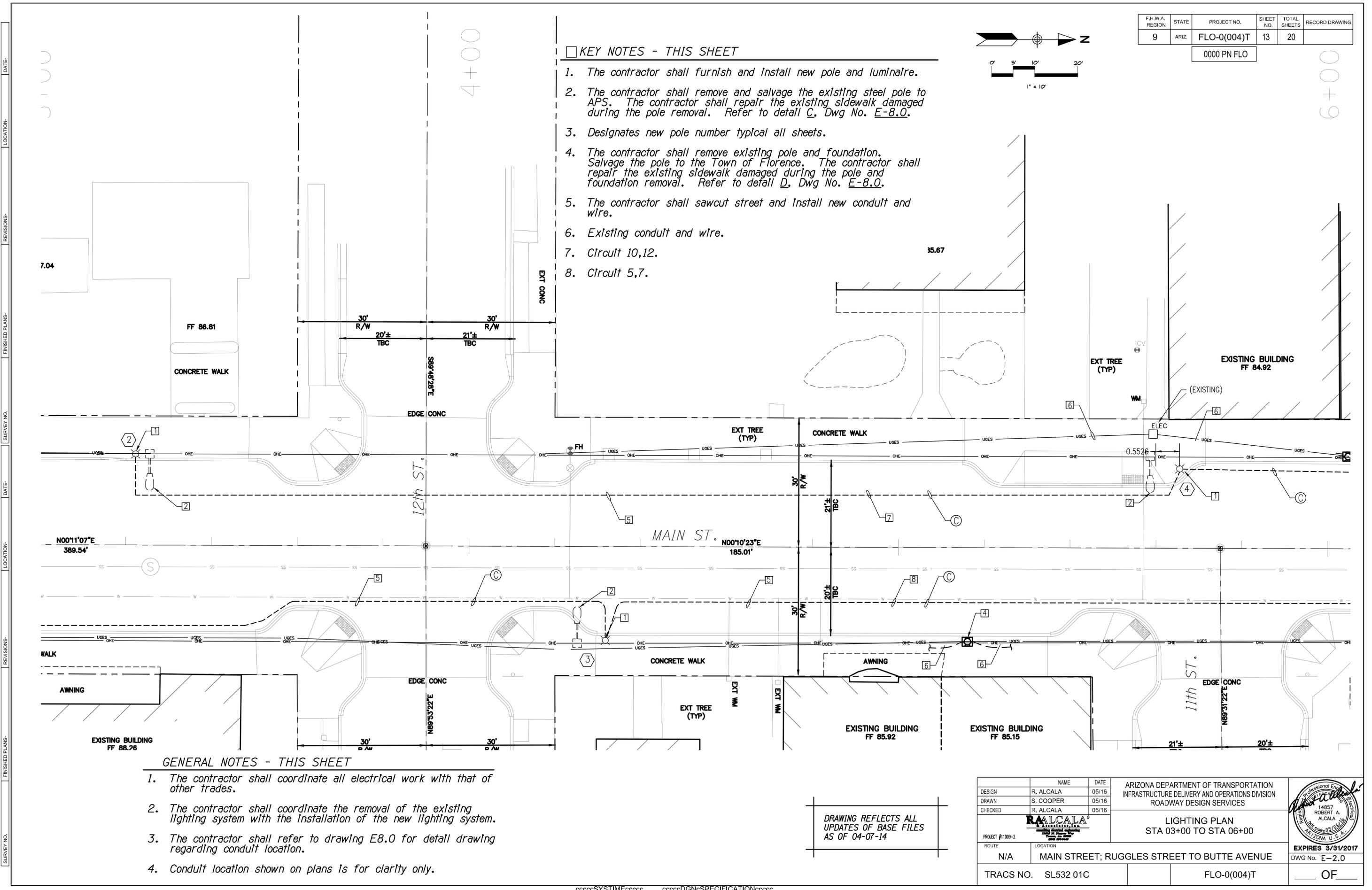


**GENERAL NOTES - THIS SHEET**

1. The contractor shall coordinate all electrical work with that of other trades.
2. The contractor shall coordinate the removal of the existing lighting system with the installation of the new lighting system.
3. The contractor shall refer to drawing E8.0 for detail drawing regarding conduit location.
4. Conduit location shown on plans is for clarity only.

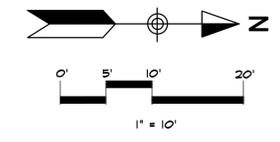
DRAWING REFLECTS ALL UPDATES OF BASE FILES AS OF 04-07-14

DESIGN	R. ALCALA	DATE	05/16	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	S. COOPER	DATE	05/16		
CHECKED	R. ALCALA	DATE	05/16		
PROJECT #	11009-2	LOCATION		LIGHTING PLAN STA 00+00 TO STA 03+00	
ROUTE	N/A	LOCATION		MAIN STREET; RUGGLES STREET TO BUTTE AVENUE	
TRACS NO.	SL532 01C	PROJECT NO.		FLO-0(004)T	OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ	FLO-0(004)T	13	20	

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**KEY NOTES - THIS SHEET**

1. The contractor shall furnish and install new pole and luminaire.
2. The contractor shall remove and salvage the existing steel pole to APS. The contractor shall repair the existing sidewalk damaged during the pole removal. Refer to detail C, Dwg No. E-8.0.
3. Designates new pole number typical all sheets.
4. The contractor shall remove existing pole and foundation. Salvage the pole to the Town of Florence. The contractor shall repair the existing sidewalk damaged during the pole and foundation removal. Refer to detail D, Dwg No. E-8.0.
5. The contractor shall sawcut street and install new conduit and wire.
6. Existing conduit and wire.
7. Circuit 10,12.
8. Circuit 5,7.

**GENERAL NOTES - THIS SHEET**

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2. The contractor shall coordinate the removal of the existing lighting system with the installation of the new lighting system.
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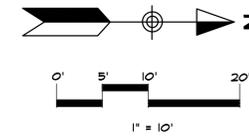
DRAWING REFLECTS ALL UPDATES OF BASE FILES AS OF 04-07-14

DESIGN	R. ALCALA	DATE	05/16	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	S. COOPER	DATE	05/16		
CHECKED	R. ALCALA	DATE	05/16		
PROJECT #11009-2		LOCATION		LIGHTING PLAN STA 03+00 TO STA 06+00	
ROUTE	N/A	MAIN STREET; RUGGLES STREET TO BUTTE AVENUE		EXPIRES 3/31/2017 DWG No. E-2.0	
TRACS NO.	SL532 01C	FLO-0(004)T		OF	

DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_ REVISIONS: \_\_\_\_\_ SURVEY NO. \_\_\_\_\_ DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_ REVISIONS: \_\_\_\_\_ SURVEY NO. \_\_\_\_\_

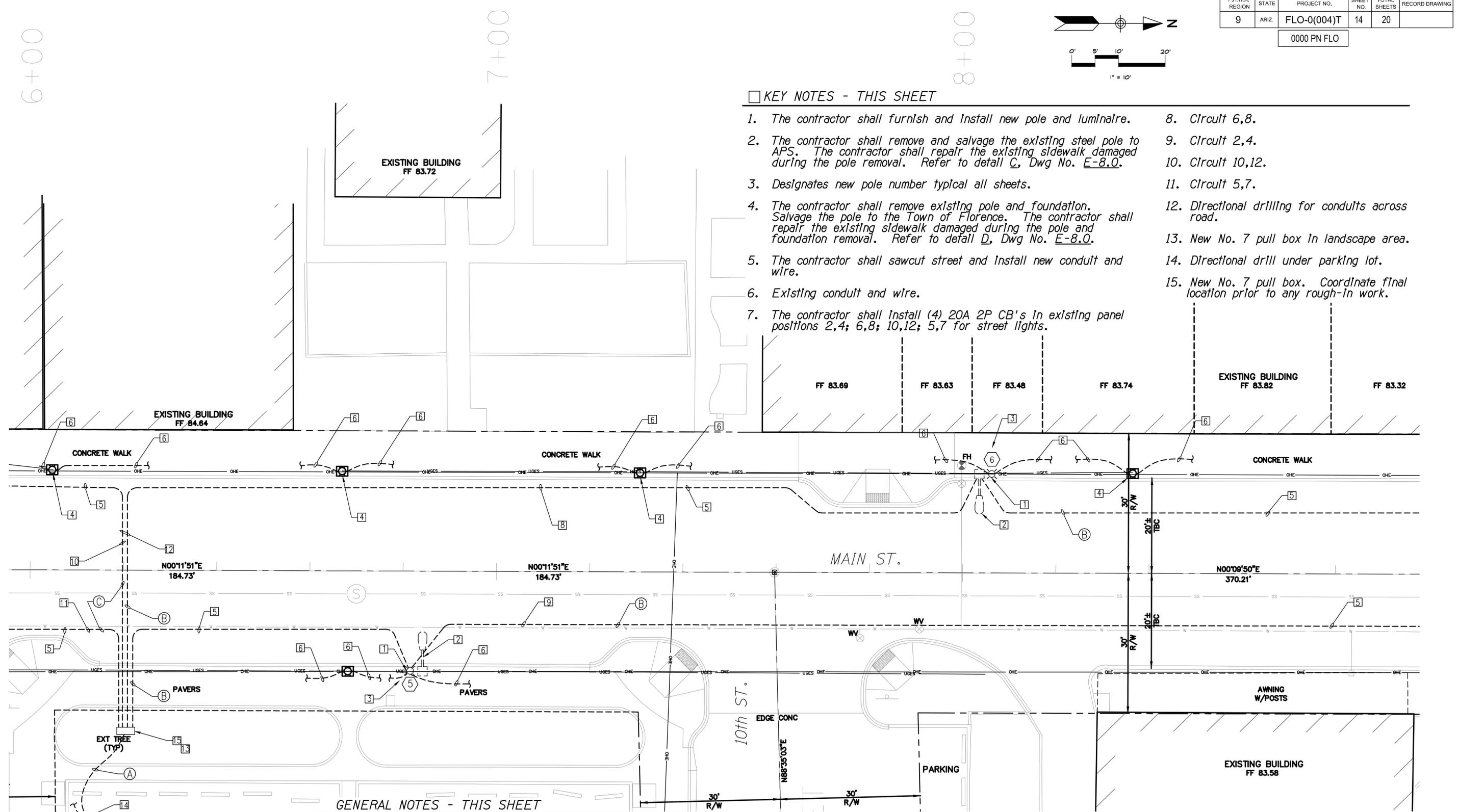
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ	FLO-0(004)T	14	20	

0000 PN FLO



**KEY NOTES - THIS SHEET**

- The contractor shall furnish and install new pole and luminaire.
- The contractor shall remove and salvage the existing steel pole to APS. The contractor shall repair the existing sidewalk damaged during the pole removal. Refer to detail C, Dwg No. E-8.0.
- Designates new pole number typical all sheets.
- The contractor shall remove existing pole and foundation. Salvage the pole to the Town of Florence. The contractor shall repair the existing sidewalk damaged during the pole and foundation removal. Refer to detail D, Dwg No. E-8.0.
- The contractor shall sawcut street and install new conduit and wire.
- Existing conduit and wire.
- The contractor shall install (4) 20A 2P CB's in existing panel positions 2,4; 6,8; 10,12; 5,7 for street lights.
- Circuit 6,8.
- Circuit 2,4.
- Circuit 10,12.
- Circuit 5,7.
- Directional drilling for conduits across road.
- New No. 7 pull box in landscape area.
- Directional drill under parking lot.
- New No. 7 pull box. Coordinate final location prior to any rough-in work.



**GENERAL NOTES - THIS SHEET**

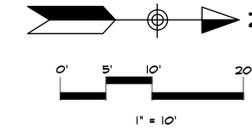
- The contractor shall coordinate all electrical work with that of other trades.
- The contractor shall coordinate the removal of the existing lighting system with the installation of the new lighting system.
- The contractor shall refer to drawing E8.0 for detail drawing regarding conduit location.
- Conduit location shown on plans is for clarity only.

DRAWING REFLECTS ALL UPDATES OF BASE FILES AS OF 04-07-14

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	R. ALCALA	05/16		
CHECKED	S. COOPER	05/16		
PROJECT #11009-2			<b>LIGHTING PLAN</b> STA 06+00 TO STA 09+00	<b>EXPIRES 3/31/2017</b> DWG No. E-3.0
ROUTE	N/A	LOCATION		
TRACS NO.	SL532 01C		FLO-0(004)T	OF

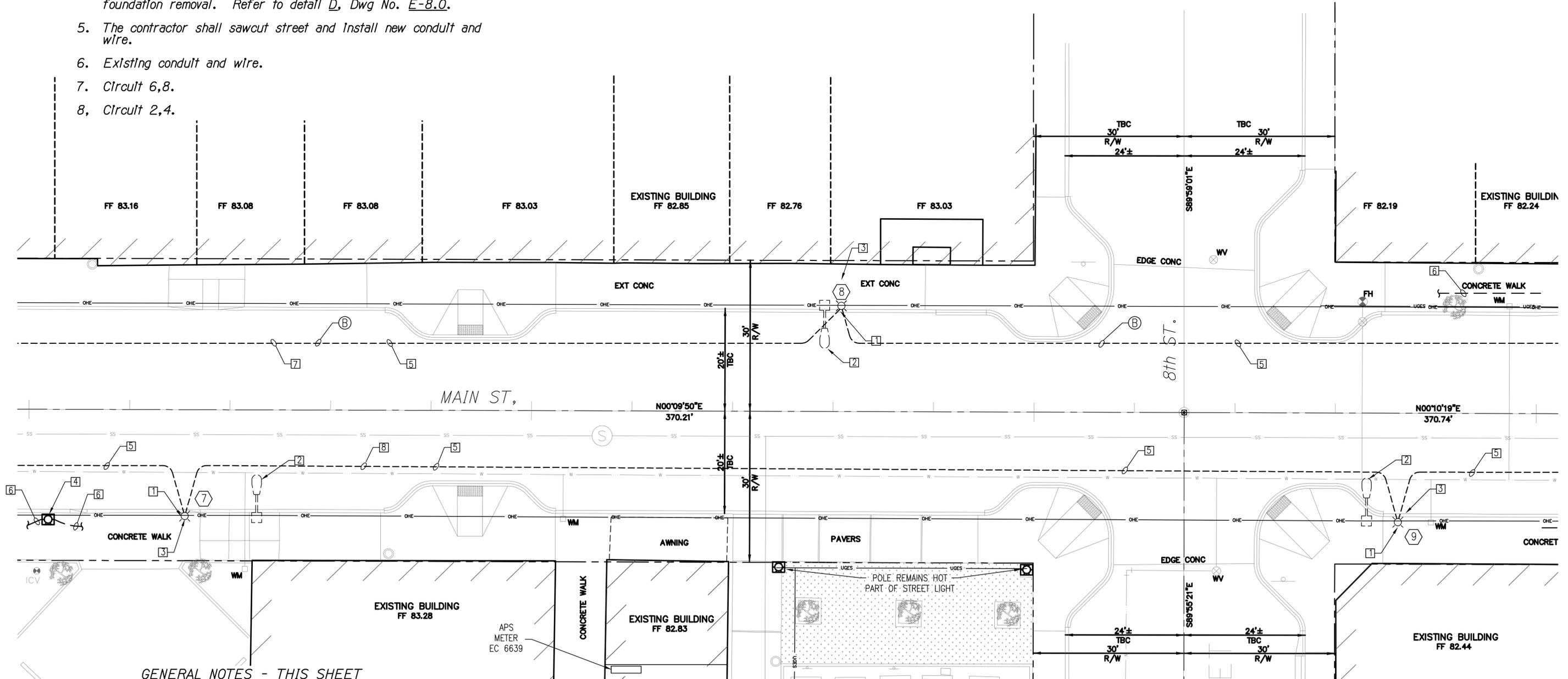
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ	FLO-0(004)T	15	20	

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**KEY NOTES - THIS SHEET**

1. The contractor shall furnish and install new pole and luminaire.
2. The contractor shall remove and salvage the existing steel pole to APS. The contractor shall repair the existing sidewalk damaged during the pole removal. Refer to detail C, Dwg No. E-8.0.
3. Designates new pole number typical all sheets.
4. The contractor shall remove existing pole and foundation. Salvage the pole to the Town of Florence. The contractor shall repair the existing sidewalk damaged during the pole and foundation removal. Refer to detail D, Dwg No. E-8.0.
5. The contractor shall sawcut street and install new conduit and wire.
6. Existing conduit and wire.
7. Circuit 6,8.
8. Circuit 2,4.



**GENERAL NOTES - THIS SHEET**

1. The contractor shall coordinate all electrical work with that of other trades.
2. The contractor shall coordinate the removal of the existing lighting system with the installation of the new lighting system.
3. The contractor shall refer to drawing E8.0 for detail drawing regarding conduit location.
4. Conduit location shown on plans is for clarity only.

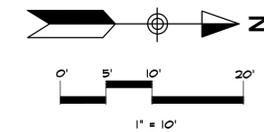
DRAWING REFLECTS ALL UPDATES OF BASE FILES AS OF 04-07-14

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	R. ALCALA	05/16		
CHECKED	S. COOPER	05/16		
PROJECT #11009-2			<b>LIGHTING PLAN</b> STA 09+00 TO STA 12+00	
ROUTE	LOCATION			
N/A	MAIN STREET; RUGGLES STREET TO BUTTE AVENUE		<b>EXPIRES 3/31/2017</b> DWG No. E-4.0	
TRACS NO.	SL532 01C	FLO-0(004)T	OF	

DATE: LOCATION: FINISHED PLANS: SURVEY NO. DATE: LOCATION: FINISHED PLANS: SURVEY NO.

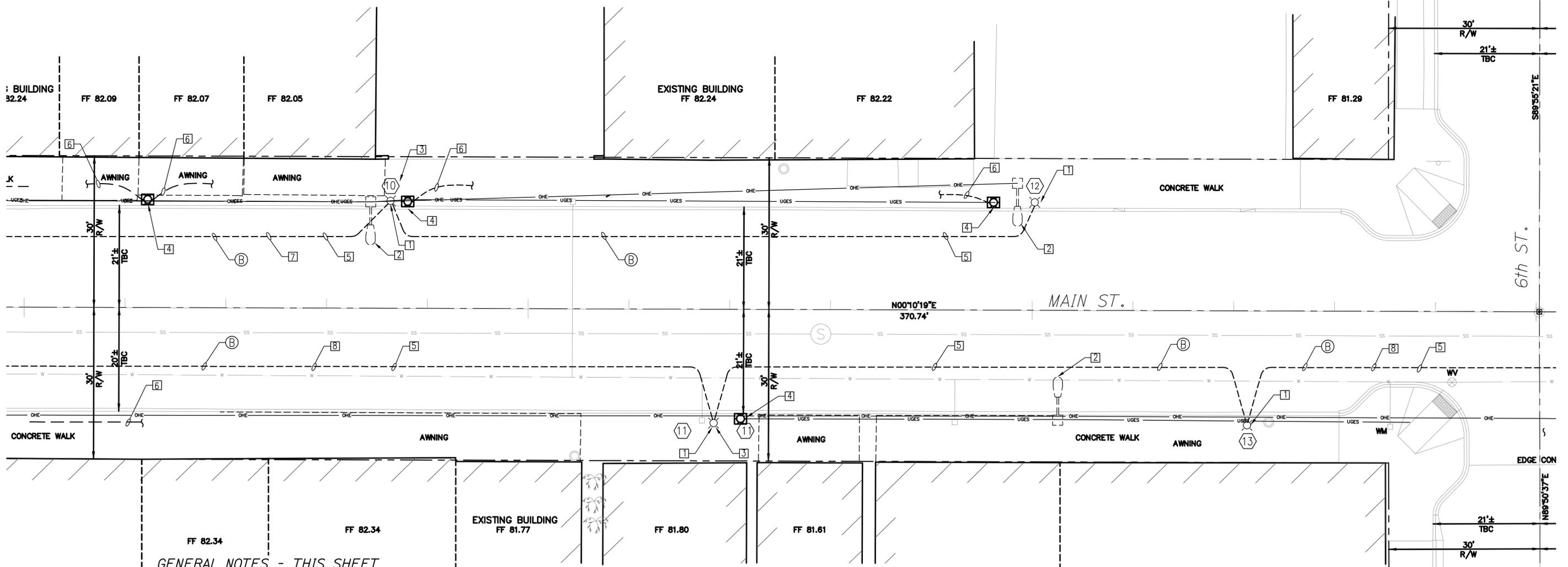
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ	FLO-0(004)T	16	20	

0000 PN FLO



**KEY NOTES - THIS SHEET**

1. The contractor shall furnish and install new pole and luminaire.
2. The contractor shall remove and salvage the existing steel pole to APS. The contractor shall repair the existing sidewalk damaged during the pole removal. Refer to detail C, Dwg No. E-8.0.
3. Designates new pole number typical all sheets.
4. The contractor shall remove existing pole and foundation. Salvage the pole to the Town of Florence. The contractor shall repair the existing sidewalk damaged during the pole and foundation removal. Refer to detail D, Dwg No. E-8.0.
5. The contractor shall sawcut street and install new conduit and wire.
6. Existing conduit and wire.
7. Circuit 6,8.
8. Circuit 2,4.



**GENERAL NOTES - THIS SHEET**

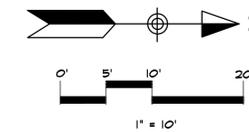
1. The contractor shall coordinate all electrical work with that of other trades.
2. The contractor shall coordinate the removal of the existing lighting system with the installation of the new lighting system.
3. The contractor shall refer to drawing E8.0 for detail drawing regarding conduit location.
4. Conduit location shown on plans is for clarity only.

DRAWING REFLECTS ALL UPDATES OF BASE FILES AS OF 04-07-14

DESIGN	R. ALCALA	DATE	05/16	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	S. COOPER	DATE	05/16		
CHECKED	R. ALCALA	DATE	05/16		
PROJECT #	11009-2			<b>LIGHTING PLAN</b> STA 12+00 TO STA 15+00	EXPIRES 3/31/2017 DWG No. E-5.0
ROUTE	N/A	LOCATION MAIN STREET; RUGGLES STREET TO BUTTE AVENUE			
TRACS NO.	SL532 01C			FLO-0(004)T	OF

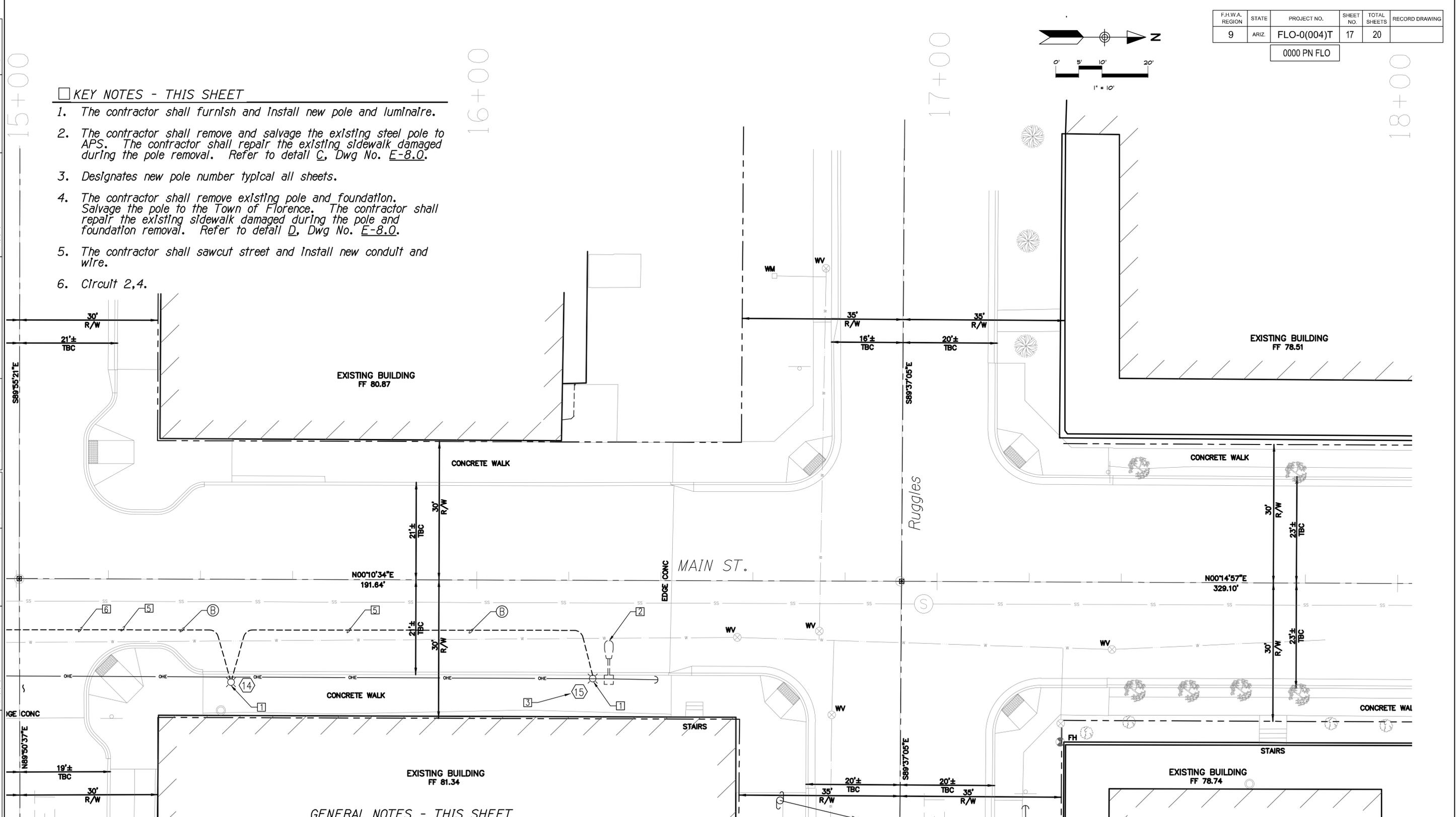
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ	FLO-0(004)T	17	20	

0000 PN FLO



**KEY NOTES - THIS SHEET**

1. The contractor shall furnish and install new pole and luminaire.
2. The contractor shall remove and salvage the existing steel pole to APS. The contractor shall repair the existing sidewalk damaged during the pole removal. Refer to detail C, Dwg No. E-8.0.
3. Designates new pole number typical all sheets.
4. The contractor shall remove existing pole and foundation. Salvage the pole to the Town of Florence. The contractor shall repair the existing sidewalk damaged during the pole and foundation removal. Refer to detail D, Dwg No. E-8.0.
5. The contractor shall sawcut street and install new conduit and wire.
6. Circuit 2,4.



**GENERAL NOTES - THIS SHEET**

1. The contractor shall coordinate all electrical work with that of other trades.
2. The contractor shall coordinate the removal of the existing lighting system with the installation of the new lighting system.
3. The contractor shall refer to drawing E8.0 for detail drawing regarding conduit location.
4. Conduit location shown on plans is for clarity only.

DRAWING REFLECTS ALL UPDATES OF BASE FILES AS OF 04-07-14

DESIGN	R. ALCALA	05/16	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	S. COOPER	05/16		
CHECKED	R. ALCALA	05/16		
PROJECT #11009-2			LIGHTING PLAN STA 15+00 TO STA 18+00	EXPIRES 3/31/2017 DWG No. E-6.0
ROUTE	LOCATION			
N/A	MAIN STREET; RUGGLES STREET TO BUTTE AVENUE			
TRACS NO.	SL532 01C		FLO-0(004)T	OF

DATE: LOCATION: REVISIONS: FINISHED PLANS: SURVEY NO. DATE: LOCATION: REVISIONS: FINISHED PLANS: SURVEY NO.

# POLE SCHEDULE - PATHWAY LIGHTING SYSTEM

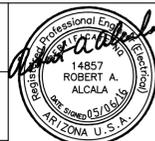
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ	FLO-0(004)T	18	20	

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CIRCUIT NO.	POLE NO.	CONSTRUCTION CENTERLINE	STATION NO.	OFFSET FROM CENTERLINE	POLE HEIGHT	LAMP WATT	LAMP QTY.	POLE TYPE	BOLT PATTERN	LUMINAIRE ORIENTATION	REMARKS	NOTES
-	1	-	02+02	22' RT	20'	LED	1	A	4 5	STREET	LED, FULL CUT-OFF	FACES STREET <span style="border: 1px solid black; padding: 0 2px;">1</span> <span style="border: 1px solid black; padding: 0 2px;">2</span> <span style="border: 1px solid black; padding: 0 2px;">3</span> <span style="border: 1px solid black; padding: 0 2px;">6</span> <span style="border: 1px solid black; padding: 0 2px;">7</span>
	2		03+22	22' LT								
	3		04+32	22' RT								
	4		05+55	18' LT								
	5		06+82	22' RT								
	6		08+06	22' LT								
	7		09+30	22' RT								
	8		10+62	22' LT								
	9		11+72	22' RT								
	10		12+73	22' LT								
	11		13+37	22' RT								
	12		14+01	22' LT								
	13		14+43	22' RT								
	14		15+47	22' RT								
	15		16+25	22' RT	▼	▼	▼	▼	▼	▼		▼ ▼ ▼ ▼ ▼ ▼ ▼ ▼ ▼ ▼

- KEY NOTES - THIS SHEET
1. New post top, luminaire, LED unit.
  2. Photometric orientation is towards street on pole at 20 ft above base.
  3. Bottom of luminaire at 21 ft.
  4. Per manufacturer.
  5. Pole foundation to be 24" dia X 7 ft deep with #4 rebar cage.
  6. Centerline of new pole is 2'-0" from back of curb.
  7. Manufacturer to provide photometric calculation of foot candles (average, horizontal, 3 ft above street). Target is 0.8 to 1.0 FC. Use 3000K LED's. No. of rows as required to achieve lighting level from curb to curb.

DATE: LOCATION: REVISIONS: FINISHED PLANS: SURVEY NO.

DESIGN	R. ALCALA	DATE	05/16	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	S. COOPER	DATE	05/16		
CHECKED	R. ALCALA	DATE	05/16		
				LIGHTING POLE SCHEDULE	
PROJECT #	11008-2			EXPIRES 3/31/2017	
ROUTE	N/A			DWG No. E-7.0	
LOCATION	MAIN STREET; RUGGLES STREET TO BUTTE AVENUE				
TRACS NO.	SL532 01C			FLO-0(004)T	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ	FLO-0(004)T	19	20	

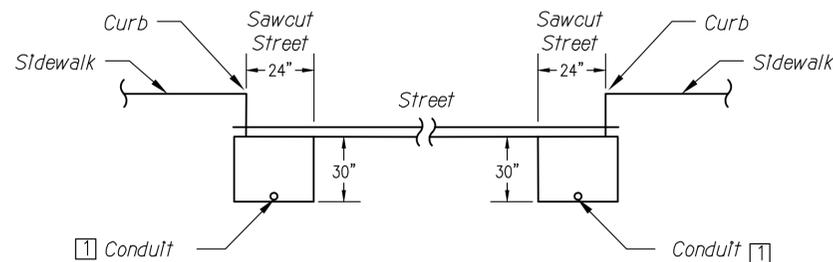
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# CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT RUN NUMBER		A	B	C	D	E	F	G	H	I	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB
AWG	CONDUIT SIZE IN INCHES	2	1½	1½	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
#2																												
#4																												
#6																												
#8		8	2																									
#4 GND																												
#6 GND		1																										
#8 GND																												
#10				2																								
#10 GND			1	1																								

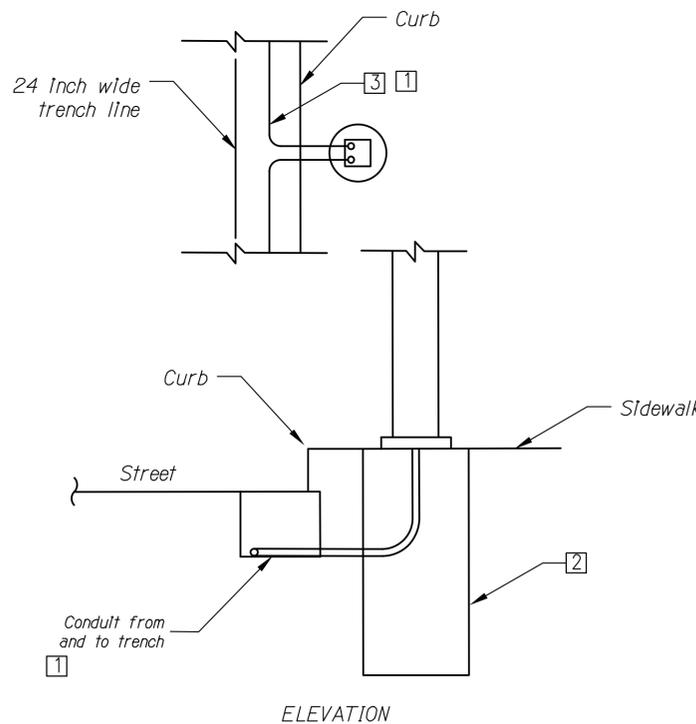
### KEY NOTES - THIS SHEET

- Refer to Lighting Plans for location of conduits.
- Refer to Sheet E9, Detail 1.
- Conduit Into and out of pole base.
- New 1 foot X 1 foot X 4 Inches thick concrete sidewalk. Concrete shall be finished by means of a float, steel trowelled and broomed with a fine brush in a traverse direction.
- Contractor shall remove existing sidewalk such that it will provide for a smooth transition from new sidewalk to existing sidewalk for the dimension shown. Contractor shall sawcut the existing conduit to the full depth of the concrete.
- New 3 feet X 3 feet X 4 Inches thick concrete sidewalk. Concrete shall be finished by means of a float, steel trowelled and broomed with a fine brush in a traverse direction.

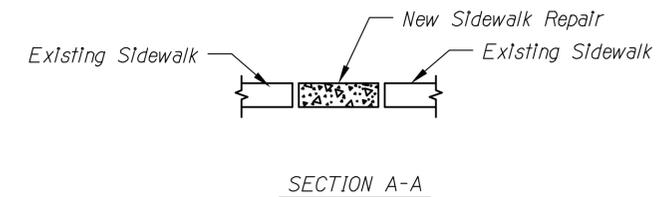
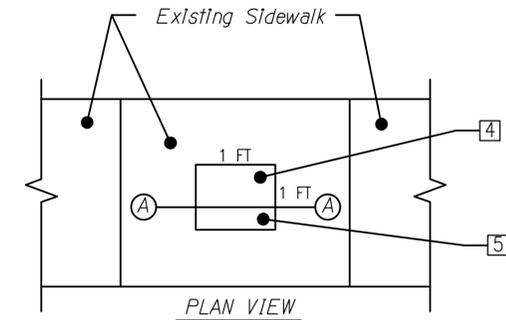


SEE TYPICAL SECTION ON DWG. NO. G-01.01

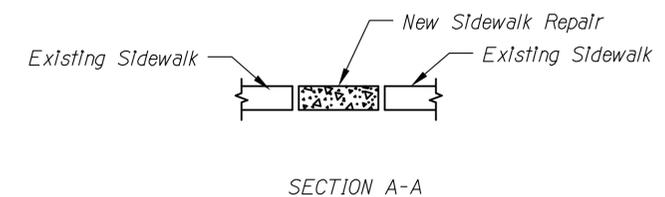
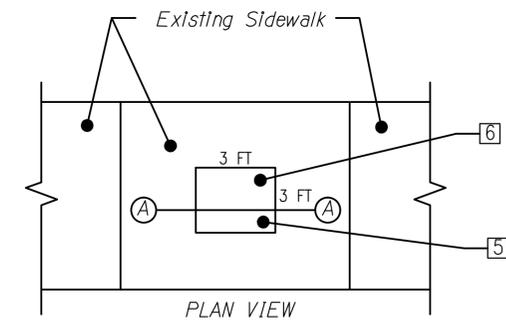
**A** CONDUIT IN STREET  
NOT TO SCALE



**B** CONDUIT FROM TRENCH TO POLE  
NOT TO SCALE



**C** 1 FT X 1 FT SIDEWALK REPAIR  
NOT TO SCALE

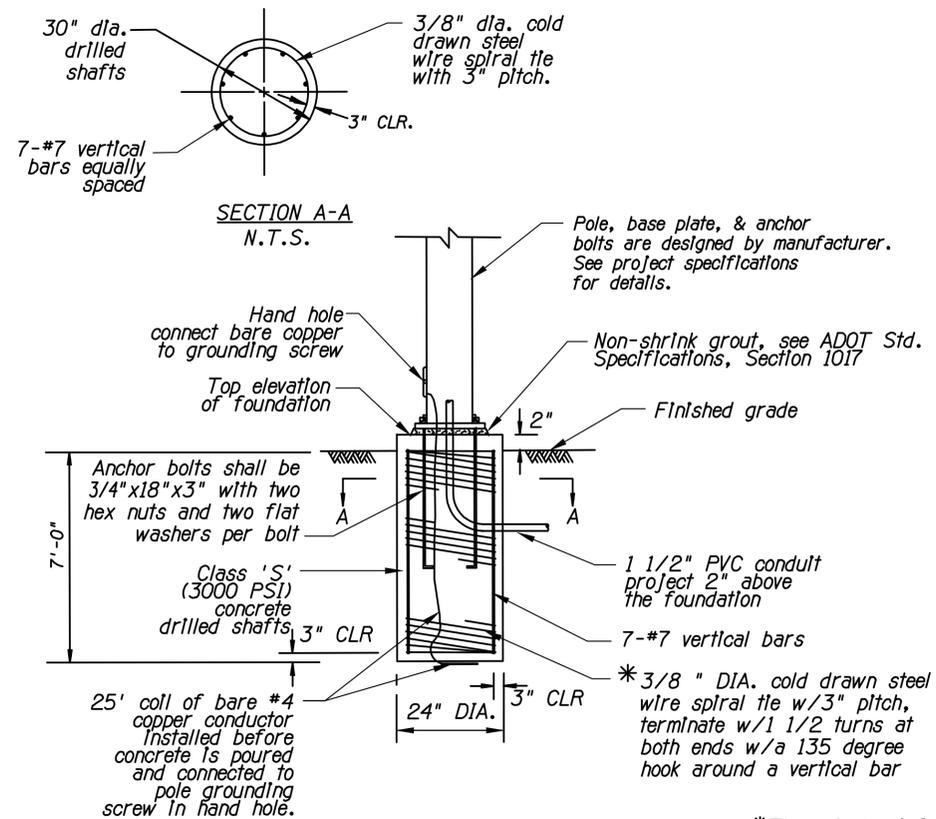


**D** 3 FT X 3 FT SIDEWALK REPAIR  
NOT TO SCALE

DESIGN	R. ALCALA	DATE	05/16	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	S. COOPER	DATE	05/16		
CHECKED	R. ALCALA	DATE	05/16		
PROJECT #11008-2		LOCATION		LIGHTING CONDUCTOR SCHEDULE	
ROUTE	N/A	MAIN STREET; RUGGLES STREET TO BUTTE AVENUE		EXPIRES 3/31/2017 DWG No. E-8.0	
TRACS NO.	SL532 01C	FLO-0(004)T		OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ	FLO-0(004)T	20	20	

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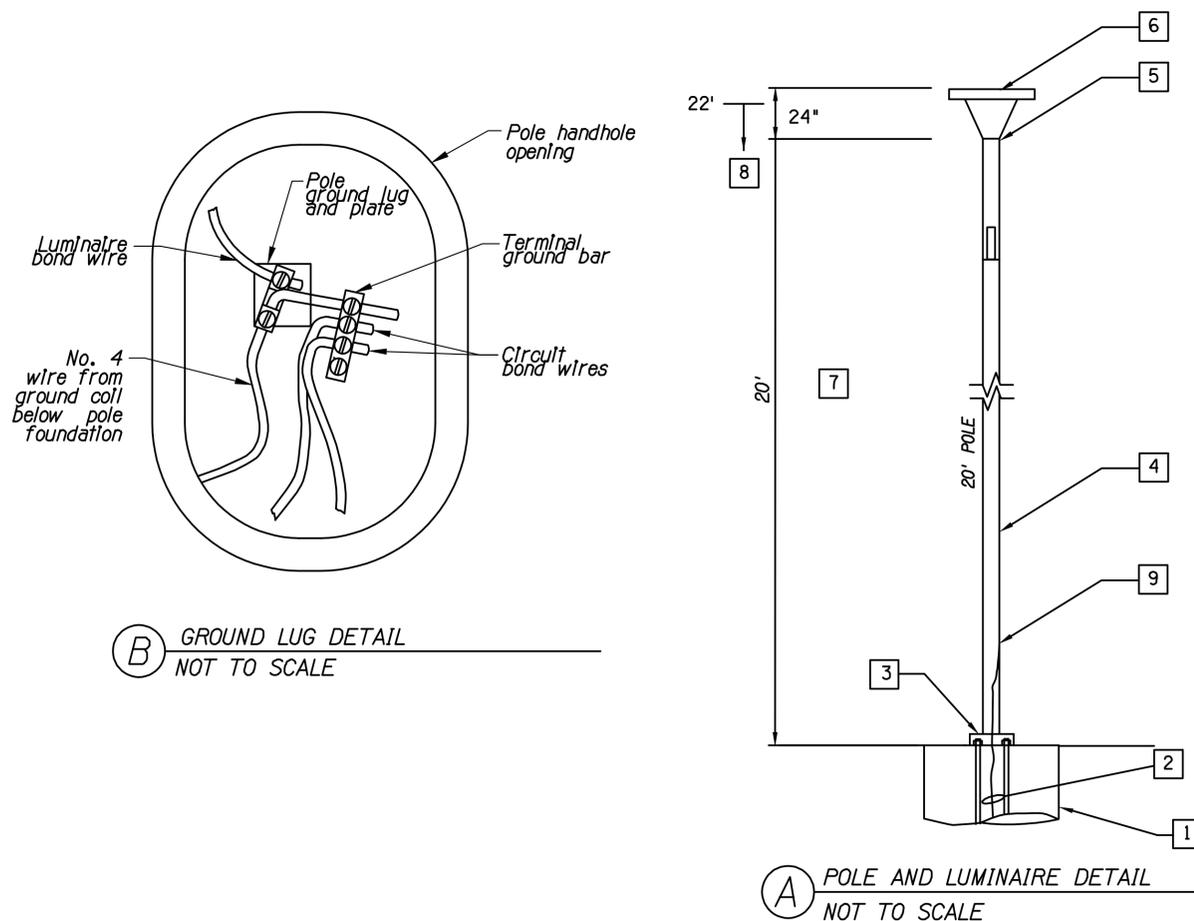


**DETAIL 1 - POLE FOUNDATION**  
N.T.S.

\*The spiral reinforcement shall conform to AASHTO, 17th Edition, Section 4.5.16.6 and the information provided on this sheet.

**KEY NOTES: DETAIL 1**

1. The upper 1'-0" of anchor bolts shall be galvanized in accordance with the requirements of ASTM A153.
2. For pole and base details, see manufacturer plans.
3. Drilled shafts shall be ADOT class 'S' concrete and placed against undisturbed material or compacted embankment.
4. Drilled shafts shall be formed 6" min. below ground surface.
5. Compacted back fill shall be in place prior to erecting pole.



**KEY NOTES: DETAILS A AND B**

- 1 Pole foundation with anchor bolts. Refer to detail 1 this sheet.
- 2 #4 B.C. ground wire down to 25 ft of coiled wire at base of foundation.
- 3 Two piece square base cover, plus/minus 12 inch square by 4 inches tall.
- 4 20 ft pole shaft per keynote 1 of pole schedule.
- 5 Top of pole shaft.
- 6 Full cut off luminaire post top mounted to top of pole.
- 7 Height above finished grade will vary per luminaire height.
- 8 Height above finished grade.
- 9 Refer to detail 'B' this sheet for additional termination requirements.

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	R. ALCALA	05/16		
CHECKED	S. COOPER	05/16		
	R. ALCALA	05/16		
PROJECT #11008-2			LIGHTING DETAIL SHEET	
ROUTE	LOCATION	EXPIRES 3/31/2017		DWG No. E-9.0
N/A	MAIN STREET; RUGGLES STREET TO BUTTE AVENUE			
TRACS NO.	SL532 01C	FLO-0(004)T	OF	