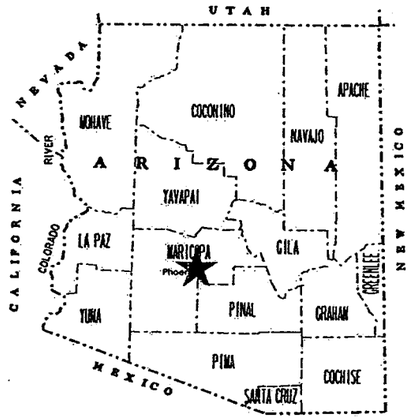
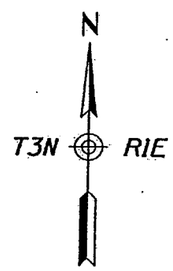
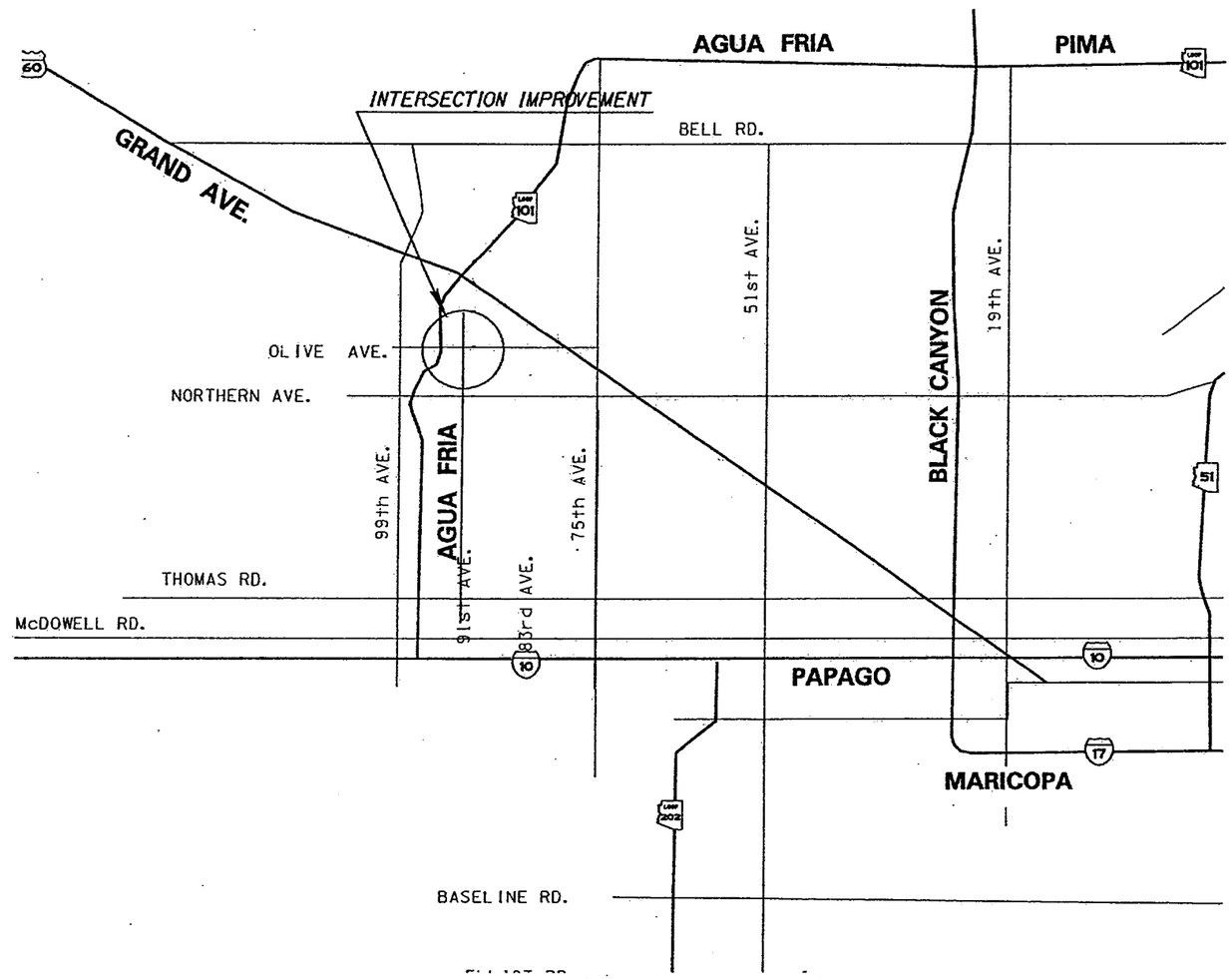
STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION

PROJECT PLANS

URBANIZED AREA
CITY OF PEORIA







91st AVE–OLIVE AVE

PROJECT NO. 0000 MA PEO SS 603 01 C
FEDERAL AID NO. CM–PEO–0(009)A

REDUCED SIZE
DO NOT SCALE

ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
FLOYD ROEHRICH, JR. P.E., STATE ENGINEER

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ADOT STANDARD DRAWINGS
C STANDARDS

ISSUE OR REVISION DATE	STANDARD NO.		SUBJECT
			CONSTRUCTION
5/07	C-01.10		SYMBOL LEGEND (4 SHEETS)
5/07	C-01.30		GENERAL ABBREVIATIONS (3 SHEETS)
5/07	C-02.10		SLOPES, RURAL DIVIDED HIGHWAYS
5/07	C-02.20		SLOPES, RURAL UNDIVIDED AND FRINGE-URBAN HIGHWAYS
5/07	C-02.30		SLOPES, MISCELLANEOUS ROADWAYS
5/07	C-03.10	SH 1	DITCHES, CHANNELS, DIKES AND BERMS, DITCHES AND CHANNELS
5/07	C-03.10	SH 2	DITCHES, CHANNELS, DIKES AND BERMS, DIKES
5/07	C-03.10	SH 3	DITCHES, CHANNELS, DIKES AND BERMS, DITCH DIKE
5/07	C-03.10	SH 4	DITCHES, CHANNELS, DIKES AND BERMS, PIPE BERMS
5/07	C-03.10	SH 5	DITCHES, CHANNELS, DIKES AND BERMS, HEADWALL BERMS
5/07	C-04.10	SH 1	SPILLWAY, EMBANKMENT SINGLE INLET
5/07	C-04.10	SH 2	SPILLWAY, EMBANKMENT DOUBLE INLET
5/07	C-04.20	SH 1	DOWNDRAIN, EMBANKMENT SINGLE INLET
5/07	C-04.20	SH 2	DOWNDRAIN, EMBANKMENT DOUBLE INLET
5/07	C-04.30		SPILLWAY LENGTH TABLE
5/07	C-04.40		DOWNDRAIN LENGTH TABLE
5/07	C-04.50		DOWNDRAIN ENERGY DISSIPATOR
5/07	C-05.10		CURB & GUTTER, CURB, GUTTER
5/07	C-05.12	SH 1	CURB & GUTTER TRANSITIONS
5/07	C-05.12	SH 2	CURB & GUTTER TRANSITIONS
5/07	C-05.12	SH 3	CURB AND GUTTER TRANSITIONS
5/07	C-05.20	SH 1	CONCRETE DRIVEWAYS & SIDEWALKS, DRIVEWAYS
5/07	C-05.20	SH 2	CONCRETE DRIVEWAYS & SIDEWALKS, SIDEWALKS
5/07	C-05.30	SH 1	SIDEWALK RAMP, TYPE A
5/07	C-05.30	SH 2	SIDEWALK RAMP, TYPE B
5/07	C-05.30	SH 3	SIDEWALK RAMP, TYPE C
5/07	C-05.30	SH 4	SIDEWALK RAMP, TYPE D
5/07	C-05.30	SH 5	SIDEWALK RAMP, TYPE E
5/07	C-05.30	SH 6	SIDEWALK RAMP, TYPE F
5/07	C-05.30	SH 7	SIDEWALK RAMP, DETECTABLE WARNING STRIP
5/07	C-05.40		MEDIAN PAVING AND NOSE TAPER
5/07	C-05.50		CONCRETE BUS BAY
5/07	C-06.10	SH 1	DRIVEWAY & TURNOUT LAYOUTS
5/07	C-06.10	SH 2	DRIVEWAY & TURNOUT LAYOUTS
5/07	C-07.01	SH 1	PCCP JOINTS
5/07	C-07.01	SH 2	PCCP JOINTS
11/07	C-07.02		LOAD TRANSFER DOWEL ASSEMBLY
5/07	C-07.03	SH 1	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/07	C-07.03	SH 2	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/07	C-07.03	SH 3	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/07	C-07.03	SH 4	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/07	C-07.03	SH 5	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/07	C-07.03	SH 6	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/07	C-07.03	SH 7	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/07	C-07.03	SH 8	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/07	C-07.04	SH 1	PCCP JOINT LOCATIONS, PARALLEL TYPE ENTRANCE RAMP WITH AUXILIARY LANE
5/07	C-07.04	SH 2	PCCP JOINT LOCATIONS, PARALLEL TYPE EXIT RAMP WITH AUXILIARY LANE
5/07	C-07.04	SH 3	PCCP JOINT LOCATIONS, TAPER TYPE ENTRANCE RAMP
5/07	C-07.04	SH 4	PCCP JOINT LOCATIONS, TAPER TYPE EXIT RAMP
5/07	C-07.04	SH 5	PCCP JOINT LOCATIONS, CROSSROAD AND RAMP TERMINI
5/07	C-07.06		TRENCH BACKFILL AND PAVEMENT REPLACEMENT
5/07	C-08.20		PAVED GORE AREA
5/07	C-10.00		GUARDRAIL MEASUREMENT LIMITS
5/07	C-10.01		GUARDRAIL INSTALLATION, TYPE A AND REFLECTOR TAB
5/07	C-10.02		GUARDRAIL INSTALLATION, TYPE B AND REFLECTOR TAB
5/07	C-10.03		W-BEAM GUARDRAIL, G4(1W) AND G4(2W), BLOCKED-OUT TIMBER POST
5/07	C-10.04		W-BEAM GUARDRAIL, G4(1S), BLOCKED-OUT STEEL POST
5/07	C-10.05	SH 1	W-BEAM GUARDRAIL, G4(MODIFIED) WITH FREEWAY CURB AND GUTTER
5/07	C-10.05	SH 2	W-BEAM GUARDRAIL, G4(MODIFIED) WITH FREEWAY CURB AND GUTTER
5/07	C-10.06	SH 1	W-BEAM GUARDRAIL, NESTED, TYPES 1 AND 2
5/07	C-10.06	SH 2	W-BEAM GUARDRAIL, NESTED, TYPE 3
5/07	C-10.07	SH 1	W-BEAM GUARDRAIL, BOLTED ANCHOR
5/07	C-10.07	SH 2	W-BEAM GUARDRAIL, BOLTED ANCHOR
5/07	C-10.08		W-BEAM GUARDRAIL, END ANCHOR
5/07	C-10.20		THRIE-BEAM GUARDRAIL, G9, BLOCKED-OUT STEEL POST
5/07	C-10.30	SH 1	GUARDRAIL TRANSITION, THRIE BEAM TO CONCRETE HALF BARRIER, 32" TYPE 'F'
5/07	C-10.30	SH 2	GUARDRAIL TRANSITION, THRIE BEAM TO CONCRETE HALF BARRIER, 32" TYPE 'F'
5/07	C-10.40		CONCRETE MEDIAN BARRIER, 32" TYPE 'F', CAST-IN-PLACE
5/07	C-10.41		CONCRETE MEDIAN BARRIER, 42" TYPE 'F', CAST-IN-PLACE
5/07	C-10.42	SH 1	GLARE SCREEN, CONCRETE MEDIAN BARRIER
5/07	C-10.42	SH 2	GLARE SCREEN, CONCRETE MEDIAN BARRIER
5/07	C-10.42	SH 3	GLARE SCREEN, CONCRETE MEDIAN BARRIER
5/07	C-10.50	SH 1	CONCRETE HALF BARRIER, 32" TYPE 'F', CAST-IN-PLACE
5/07	C-10.50	SH 2	CONCRETE HALF BARRIER, 32" TYPE 'F', PRECAST
5/07	C-10.51		CONCRETE HALF BARRIER, 32" TYPE 'F' WITH SIDEWALK
5/07	C-10.52		CONCRETE HALF BARRIER, 32" TYPE 'F' WITH GUTTER
5/07	C-10.53		CONCRETE HALF BARRIER, 42" TYPE 'F' WITH GUTTER
5/07	C-10.54	SH 1	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, CAST-IN-PLACE
5/07	C-10.54	SH 2	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, PRECAST
5/07	C-10.54	SH 3	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, LAYOUT
5/07	C-10.55	SH 1	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, CAST-IN-PLACE
5/07	C-10.55	SH 2	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, PRECAST
5/07	C-10.55	SH 3	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, LAYOUT
5/07	C-10.70	SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
5/07	C-10.70	SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
5/07	C-10.70	SH 3	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
5/07	C-10.71	SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CURB & GUTTER
5/07	C-10.71	SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CURB & GUTTER
5/07	C-10.72	SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
5/07	C-10.72	SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
5/07	C-10.72	SH 3	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS

ISSUE OR REVISION DATE	STANDARD NO.		SUBJECT
			CONSTRUCTION
5/07	C-10.73	SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH GUTTER
5/07	C-10.73	SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH GUTTER
5/07	C-10.74		CONCRETE HALF-BARRIER TRANSITION, 42" TO 32" TYPE 'F'
5/07	C-10.75	SH 1	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F', TANGENT DEPARTURE TYPE 1
5/07	C-10.75	SH 2	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F', TANGENT DEPARTURE TYPE 2
5/07	C-10.76		CONCRETE HALF-BARRIER TRANSITION, TYPE 'F' AT RADIUS, 32" TO 0"
5/07	C-10.77		CONCRETE HALF-BARRIER TRANSITION, END TERMINAL CURB AND GUTTER
5/07	C-11.10	SH 1	ROADWAY CATTLE GUARD
5/07	C-11.10	SH 2	ROADWAY CATTLE GUARD
5/07	C-11.10	SH 3	ROADWAY CATTLE GUARD
5/07	C-11.10	SH 4	ROADWAY CATTLE GUARD
5/07	C-11.20		CATTLE GUARD, DRAINAGE
5/07	C-12.10	SH 1	FENCE, WOVEN WIRE
5/07	C-12.10	SH 2	FENCE, BARBED WIRE
5/07	C-12.10	SH 3	FENCE, TYPES 1 AND 2 GATES, FLOOD GATE
5/07	C-12.10	SH 4	FENCE, FLOOD GATE INSTALLATION
5/07	C-12.10	SH 5	FENCE, MISCELLANEOUS DETAILS
5/07	C-12.20	SH 1	FENCE, CHAIN LINK, TYPE 1
5/07	C-12.20	SH 2	FENCE, CHAIN LINK, TYPE 2
5/07	C-12.20	SH 3	FENCE, CHAIN LINK, GATES
5/07	C-12.30	SH 1	FENCE, CHAIN LINK CABLE BARRIER
5/07	C-12.30	SH 2	FENCE, CHAIN LINK CABLE BARRIER
5/07	C-12.30	SH 3	FENCE, CHAIN LINK CABLE BARRIER
5/07	C-13.10	SH 1	PIPE CULVERT INSTALLATION
5/07	C-13.10	SH 2	PIPE CULVERT INSTALLATION
5/07	C-13.15		TYPICAL PIPE INSTALLATION
5/07	C-13.20		PIPE, REINFORCED CONCRETE END SECTION
5/07	C-13.25		PIPE, CORRUGATED METAL END SECTION
5/07	C-13.30		PIPE AND PIPE ARCH, CORRUGATED METAL, CONCRETE INVERT PAVING
5/07	C-13.55		PIPE, CATTLE-VEHICLE PASS, MITERED END TREATMENT
5/07	C-13.60		SLOTTED DRAIN DETAILS
5/07	C-13.65		SLOTTED DRAIN INSTALLATION DETAILS
5/07	C-13.70		STORM DRAIN CONNECTION DETAILS
5/07	C-13.75		STORM DRAIN OUTLET BARRIER GATE
5/07	C-13.76		STORM DRAIN OUTLET AND STORM DRAIN PLUG
5/07	C-13.80		PIPE COLLAR DETAILS
5/07	C-15.10		CATCH BASIN, TYPE 1
5/07	C-15.20	SH 1	CATCH BASIN, TYPE 3
5/07	C-15.20	SH 2	CATCH BASIN, TYPE 3
5/07	C-15.20	SH 3	CATCH BASIN, ACCESS FRAME AND COVER DETAILS
5/07	C-15.30		CATCH BASIN, TYPE 4
5/07	C-15.40	SH 1	CATCH BASIN, TYPE 5
5/07	C-15.40	SH 2	CATCH BASIN, TYPE 5
5/07	C-15.50		CATCH BASIN, FRAME AND GRATE
5/07	C-15.70	SH 1	CATCH BASIN, MISCELLANEOUS DETAILS
5/07	C-15.70	SH 2	CATCH BASIN, MISCELLANEOUS DETAILS
5/07	C-15.75		CATCH BASIN, DROP INLET
5/07	C-15.80		CATCH BASIN, FLUSH
5/07	C-15.81		CATCH BASIN, SIDE SLOPE
5/07	C-15.90		CATCH BASIN, MEDIAN DIKE, PRECAST
5/07	C-15.91	SH 1	FREEWAY CATCH BASIN DETAILS
5/07	C-15.91	SH 2	FREEWAY CATCH BASIN DETAILS
5/07	C-15.92	SH 1	CATCH BASIN WITH TYPE 'F' CONCRETE HALF BARRIER
5/07	C-15.92	SH 2	CATCH BASIN WITH TYPE 'F' CONCRETE HALF BARRIER
5/07	C-16.40		IRRIGATION SLEEVES
5/07	C-17.10		RAIL BANK PROTECTION FOR DRAINAGEWAYS, TYPES 1, 2 & 3
5/07	C-17.15		RAIL BANK PROTECTION AT ABUTMENTS, TYPES 4, 5 & 6
5/07	C-17.20		BANK PROTECTION FOR DRAINAGEWAYS, TYPES 7, 8 & 9
5/07	C-18.10	SH 1	MANHOLE, RISER DETAILS
5/07	C-18.10	SH 2	MANHOLE, BASE DETAILS, NORMAL INSTALLATION
5/07	C-18.10	SH 3	MANHOLE, FRAME AND COVER DETAILS
5/07	C-19.10	SH 1	FORD, CONCRETE WALLS
5/07	C-19.10	SH 2	FORD, TYPES 1 AND 2
11/07	C-21.10		SURVEY MONUMENT FRAME AND COVER
11/07	C-21.20		SURVEY MARKER

REDUCED SIZE
DO NOT SCALE

ADOT STANDARD DRAWINGS
REVISION DATES and STANDARD NO.'s REVIEW

CONSTRUCTION Standards	NAME	DATE
		12-3-09

PROJECT NO. 0000 MA PEO SS 603 01 C — 1A OF

AS BUILT DATA	FEDERAL AID NO.	AS BUILT DATE	OF
	CM-PEO-0(009)A		

REV.: 11/01/07

ADOT STANDARD DRAWINGS

REVISION	STANDARD	SUBJECT: SIGNING & MARKING DETAILS
2/02	M-1	CURB MARKINGS FOR RAISED MEDIAN & ISLANDS
2/04	M-2 SHT 1	INTERSECTION STRIPING
2/02	M-2 SHT 2	INTERSECTION STRIPING
2/02	M-2 SHT 3	CENTERLINE & REVERSE CURVE DETAILS
2/02	M-3	STRIPING AND DELINEATION FOR FREEWAY TERMINALS
11/04	M-4	PASSING LANE STRIPING DETAILS
2/02	M-5	RAILROAD PAVEMENT MARKINGS
2/02	M-6	WORD MARKINGS
2/02	M-7	PAVEMENT LETTERS
2/02	M-8	PAVEMENT LETTERS
2/02	M-9	PAVEMENT NUMBERS
9/08	M-10 SHT 1	PAVEMENT MARKING SYMBOLS
9/08	M-10 SHT 2	PAVEMENT MARKING SYMBOLS
9/08	M-10 SHT 3	PAVEMENT MARKING SYMBOLS
3/05	M-11	TURN LANE PAVEMENT MARKINGS
2/02	M-12	FREEWAY PAVEMENT ARROWS
2/02	M-13	PREFERENTIAL LANE PAVEMENT MARKINGS
6/03	M-14	STRIPING AND DELINEATION FOR TRUCK ESCAPE RAMPS
6/03	M-15 SHT 1	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - TAPERED ACCELERATION LANE
4/05	M-15 SHT 2	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - PARALLEL ACCELERATION LANE
6/03	M-15 SHT 3	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - PARALLEL ACCELERATION LANE WITH HOV BYPASS
6/03	M-16 SHT 1	PAVEMENT MARKING FOR FREEWAY EXIT RAMPS - TAPERED DECELERATION LANE
8/06	M-16 SHT 2	PAVEMENT MARKING FOR FREEWAY EXIT RAMP - PARALLEL DECELERATION LANE
6/03	M-17	FREEWAY LANE DROP PAVEMENT MARKINGS
6/08	M-18	RECESSED PAVEMENT MARKER DETAILS
6/08	M-19 SHT 1	RAISED PAVEMENT MARKER PLAN LEGEND
6/08	M-19 SHT 2	NON-REFLECTIVE RAISED PAVEMENT MARKER DETAILS
6/08	M-19 SHT 3	RETRO-REFLECTIVE RAISED PAVEMENT MARKER DETAILS
6/08	M-19 SHT 4	RETRO-REFLECTIVE RAISED PAVEMENT MARKER DETAILS
6/08	M-19 SHT 5	PAVEMENT MARKING DETAILS FOR UNDIVIDED HIGHWAYS
6/08	M-19 SHT 6	SERIES 40 RETRO-REFLECTIVE RAISED PAVEMENT MARKERS (RRPM) FOR UNDIVIDED HIGHWAYS
6/08	M-19 SHT 7	SERIES 80 RETRO-REFLECTIVE RAISED PAVEMENT MARKERS (RRPM) FOR UNDIVIDED HIGHWAYS
6/08	M-19 SHT 8	TYPICAL MARKING DETAILS FOR EDGELINE RETRO-REFLECTIVE PAVEMENT MARKERS (ALL FREEWAYS)
6/08	M-19 SHT 9	TYPICAL MARKING DETAILS FOR LANE DROP AND RAMP OR INTERSECTION GUIDE STRIPING
6/08	M-19 SHT 10	PAVEMENT MARKING CROSS-SECTION DETAILS FOR HIGHWAYS AND FREEWAYS
2/02	M-20 SHT 1	CHIP SEAL MARKER USAGE FOR TEMPORARY MARKERS
2/02	M-20 SHT 2	CHIP SEAL MARKER USAGE FOR TEMPORARY MARKERS
2/02	M-21	TRANSVERSE RUMBLE STRIP DETAILS
9/08	M-22 SHT 1	CONTINUOUS LONGITUDINAL RUMBLE STRIP GROOVE, PATTERN & LOCATION DETAILS
9/08	M-22 SHT 2	LONGITUDINAL RUMBLE STRIP EXCEPTION DETAILS
12/08	M-23 SHT 1	OBJECT MARKER DETAILS
12/08	M-23 SHT 2	OBJECT MARKER DETAILS
5/03	M-24	OBJECT MARKER PLACEMENT DETAILS
9/06	M-25	DELINEATOR AND GALVANIZED STEEL POST DETAILS
7/09	M-26 SHT 1	ROADWAY DELINEATOR PLACEMENT
7/09	M-26 SHT 2	INTERCHANGE DELINEATOR SPACING
4/08	M-27	DELINEATION DETAILS FOR MEDIAN CROSSOVERS
2/02	M-28	CURVE TREATMENT - CHEVRONS
9/06	M-29	OFF-MAINLINE REFERENCE MARKER LOCATION DETAIL
11/04	M-30	OFF-MAINLINE REFERENCE MARKER DETAILS
2/04	M-31	SNOW MARKER DETAILS
5/03	M-32	BRIDGE AND BARRIER MARKER DETAILS

REVISION	STANDARD	SUBJECT: SIGNING & MARKING DETAILS
5/03	M-33	BRIDGE & BARRIER MARKER PLACEMENT & INSTALLATION DETAILS
4/05	M-34	GUARDRAIL EXTRUDER TERMINAL DELINEATION DETAILS
2/02	M-35	OBJECT MARKER FOR SAND BARREL CRASH CUSHION
7/09	M-36	ROADWAY DELINEATOR PLACEMENT
7/09	M-37	DELINEATORS IN-GROUND FOUNDATION DETAILS
7/09	M-38	SQUARE STEEL POST BREAK-AWAY DELINEATOR
8/04	S-1 SHT 1	SQUARE TUBE SIGN POST SELECTION CHARTS
5/06	S-1 SHT 2	PERFORATED SIGN POST FOUNDATION
5/03	S-1 SHT 3	PERFORATED SIGN POST FOUNDATION
2/02	S-2	S&W SHAPE POST SELECTION CHART (BREAKAWAY SIGN POST DESIGN)
2/02	S-3 SHT 1	OFFSETS, CLEARANCES, & MOUNTING DETAILS FOR GUIDE SIGNS & BREAKAWAY POST INSTALLATION
2/02	S-3 SHT 2	OFFSETS, CLEARANCES, & MOUNTING DETAILS FOR WARNING, REGULATORY & MARKER SIGN ON FREEWAYS
2/02	S-3 SHT 3	OFFSETS, CLEARANCES, & MOUNTING DETAILS FOR SIGNS ON NON-FREEWAYS RAMPS AND CROSSROADS
2/02	S-3 SHT 4	OFFSETS, CLEARANCES, & MOUNTING DETAILS FOR SQUARE TUBE POSTS
2/02	S-4	W SHAPE TENSION FUSE PLATE AND HINGE DETAILS
3/02	S-5	BREAKAWAY POST DETAILS FOR W SHAPE GUIDE SIGNS
2/02	S-6	BREAKAWAY POST DETAILS S4×7.7
6/06	S-7	AUXILIARY SIGN INSTALLATION DETAILS
8/06	S-8 SHT 1	ALUMINUM EXTRUSION SIGN PANEL DETAILS
8/06	S-8 SHT 2	ALUMINUM EXTRUSION EXIT NUMBER PANEL DETAIL
8/06	S-8 SHT 3	ALUMINUM EXTRUSION PANEL INSTALLATION DETAIL
8/06	S-8 SHT 4	ALUMINUM EXTRUSION SIGN INSTALLATION DETAIL TO PERFORATED POSTS
2/02	S-9 SHT 1	SIGN INSTALLATION ON POLE
2/02	S-9 SHT 2	SIGN INSTALLATION ON POLE
2/02	S-9 SHT 3	SIGN INSTALLATION ON POLE
5/04	S-10 SHT 1	FREEWAY MILEPOST DETAILS
5/04	S-10 SHT 2	NON-FREEWAY MILEPOST DETAILS
7/04	S-11 SHT 1	TAPERED TUBE SIGN STRUCTURE
7/04	S-11 SHT 2	TAPERED TUBE SIGN STRUCTURE
7/04	S-11 SHT 3	TAPERED TUBE SIGN STRUCTURE
7/04	S-11 SHT 4	TAPERED TUBE SIGN STRUCTURE
2/08	S-12 SHT 1	ARROWS FOR USE ON FREEWAY MAINLINE AND OVERHEAD GUIDE SIGNS
2/08	S-12 SHT 2	ARROWS FOR USE ON GROUND MOUNT GUIDE SIGNS ON CONVENTIONAL ROADWAYS, RAMPS, AND CROSSROADS
2/08	S-13	SIGN IDENTIFICATION DETAILS
4/06	S-14 SHT 1	INSTALLATION OF ROTATING OPEN/CLOSED SIGN
4/06	S-14 SHT 2	INSTALLATION OF ROTATING OPEN/CLOSED SIGN
4/06	S-14 SHT 3	INSTALLATION OF ROTATING OPEN/CLOSED SIGN
4/07	S-15 SHT 1	DUDLEY FOLDING SIGN
4/07	S-15 SHT 2	DUDLEY FOLDING SIGN
2/02	C-1	SAND BARREL CRASH CUSHION
2/02	C-2	SAND BARREL CRASH CUSHION TYPICAL INSTALLATION
12/06	C-3 SHT 1	PRECAST CONCRETE BARRIER PIN AND LOOP ASSEMBLY NCHRP 350 APPROVED DESIGN
12/06	C-3 SHT 2	PRECAST CONCRETE BARRIER PIN AND LOOP ASSEMBLY NCHRP 350 APPROVED DESIGN
2/02	C-4 SHT 1	MEDIAN CROSSOVER
2/02	C-4 SHT 2	APPROACH PLATE AND TRANSITION SECTION FOR TEMPORARY CONCRETE BARRIER
10/02	C-5 SHT 1	TYPICAL END TREATMENTS FOR DETOURS USING TEMPORARY CONCRETE BARRIER (TCB)
10/02	C-5 SHT 2	TYPICAL END TREATMENTS FOR DETOURS USING TEMPORARY CONCRETE BARRIER (TCB)

NO.1	DESCRIPTION OF REVISION	MADE BY	DATE	NO.2	DESCRIPTION OF REVISION	MADE BY	DATE
	REVISED M-23 AND UPDATED REVISION DATE	L. LOPEZ	12/08		ADDED STD DRAWINGS AND UPDATED REVISION DATES	L. LOPEZ	07/09

REDUCED SIZE
DO NOT SCALE

ADOT STANDARD DRAWINGS
REVISION DATES and STANDARD NO.'s REVIEW

	NAME	DATE
SIGNING & MARKING STANDARDS		12-3-09

PROJECT NO.		
0000 MA PEO SS 603 01 C	IB	OF
AS BUILT DATA — FEDERAL AID NO. CM-PEO-0(009)A — AS BUILT DATE		OF

ADOT STANDARD DRAWINGS

TRAFFIC SIGNAL AND LIGHTING STANDARDS
EFFECTIVE NOVEMBER 2009

REVISION DATE	STANDARD NUMBER	SUBJECT: TRAFFIC SIGNALS & LIGHTING DETAILS
	T.S. 0	SYMBOLS
01/04	0-1	PLAN SYMBOLS
01/04	0-2	PLAN SYMBOLS
01/04	0-3	PLAN SYMBOLS
	T.S. 1	PULL BOXES
01/04	1-1	NO. 5 CONCRETE PULL BOX
01/04	1-2	NO. 5 CONCRETE PULL BOX EXTENSION
01/04	1-3	NO. 7 CONCRETE PULL BOX
01/04	1-4	NO. 7 CONCRETE PULL BOX EXTENSION
01/04	1-5	POLYMER PULL BOX
01/04	1-6	TRAFFIC SIGNAL & LIGHTING NO. 9 PULL BOX
01/04	1-7	TRAFFIC SIGNAL & LIGHTING NO. 9 PULL BOX COVER & LIFT HANDLES
01/04	1-8	TYPICAL PULL BOX INSTALLATION AND WIRING DETAILS
01/04	1-9	BARRIER JUNCTION BOX
	T.S. 2	FOUNDATIONS
01/04	2-1	FOUNDATION FOR TYPE II LOAD CENTER CABINET
01/04	2-2	FOUNDATION FOR TYPE IV LOAD CENTER CABINET
01/04	2-3	FOUNDATION FOR TYPE III CONTROL CABINET
01/04	2-4	FOUNDATION FOR TYPE IV & V CONTROL CABINETS
01/04	2-5	TRAFFIC SIGNAL & LIGHTING TYPE A FOUNDATION FOR 340 CONTROL CABINETS
01/04	2-6	METER PEDESTAL CABINET FOUNDATION AND BASE
09/05	2-7	UPS FOUNDATION DETAIL
	T.S. 3	CABINETS
01/04	3-1	TYPE II LOAD CENTER CABINET
01/04	3-2	TYPE IV LOAD CENTER CABINET
01/04	3-3	TYPE II LOAD CENTER CABINET WIRING DETAILS 120/240 3W
01/04	3-4	TYPE II LOAD CENTER CABINET WIRING DETAILS 240/480 3W W/DISCONNECT
01/04	3-5	TYPE IV LOAD CENTER CABINET WIRING DETAILS 240/480 3W W/DISCONNECT
01/04	3-6	TYPE III CONTROL CABINET
01/04	3-7	POLE MOUNT FOR TYPE III CONTROL CABINET
01/04	3-8	POLE MOUNT DETAILS FOR TYPE III CONTROL CABINET
01/04	3-9	TYPE IV CONTROL CABINET
01/04	3-10	TYPE V CONTROL CABINET
04/05	3-11	CONTROL CABINET MOUNTED SERVICE ENCLOSURE
01/04	3-12	JACK MOUNTED COMPONENTS
01/04	3-13	METER PEDESTAL CABINET
01/04	3-14	ELEVATOR BASE FOR TYPE IV CONTROL CABINET
01/04	3-15	TRAFFIC SIGNALS & LIGHTING MODEL 345 CABINET DETAILS
01/04	3-16	TRAFFIC SIGNALS & LIGHTING MODEL 345 CABINET CAGE DETAILS
01/04	3-17	125 AMP, 120/240 OR 240/480 V. SINGLE PHASE METER SOCKET AND DISCONNECT
01/04	3-18	125 AMP, 120/240 OR 240/480 V, SINGLE PHASE UTILITY PULL SECTION/DISCONNECT
04/05	3-19	METER PEDESTAL CABINET WIRING DIAGRAMS
	T.S. 4	POLES AND POSTS
01/04	4-1	TYPE "A" POLE
01/04	4-2	TYPE "E" POLE AND MAST ARMS
01/04	4-3	TYPE "F" POLE AND MAST ARMS
09/04	4-4	TYPE "G" POLE AND MAST ARMS
06/04	4-5	ALUMINUM TYPE "G" POLE AND MAST ARMS
01/04	4-6	ALUMINUM TYPE "H" POLE AND MAST ARMS
01/04	4-7	ALUMINUM TYPE "I" POLE AND MAST ARMS
01/04	4-8	TYPE "J" POLE AND MAST ARMS
06/06	4-9	TYPE "K" POLE AND MAST ARMS
01/04	4-10	TYPE "O" POLE AND MAST ARMS
01/04	4-11	TYPE "R" POLE AND MAST ARMS
01/04	4-12	TYPE "S" POLE
01/04	4-13	ALUMINUM TYPE "S" POLE
01/04	4-14	TYPE "T" POLE AND LUMINAIRE MOUNTING BRACKET
01/04	4-15	ALUMINUM TYPE "T" POLE
01/04	4-16	TYPE "U" POLE ELLIPTICAL BASE DETAILS
01/04	4-17	TYPE "U" POLE ROUND BASE
01/04	4-18	TYPE "U" POLE FOUNDATION DETAILS
01/04	4-19	TYPE "U" POLE CONNECTION DETAILS
01/04	4-20	POLE HAND HOLE DETAIL
01/04	4-21	POLE DRILLING DETAIL
01/04	4-22	PEDESTRIAN PUSH BUTTON POST
06/04	4-23	ANCHOR BOLTS
	T.S. 5	POLE BASES - SPECIAL
08/04	5-1	TYPE 2 BREAK-AWAY BASE FOR 30' POLE
07/04	5-2	TYPE 3 BREAK-AWAY BASE FOR 40' POLE AND ABOVE

REVISION DATE	STANDARD NUMBER	SUBJECT: TRAFFIC SIGNALS & LIGHTING DETAILS
	T.S. 6	LIGHTING - POLE OFFSETS
01/04	6-1	HIGHWAY LIGHTING OFFSETS IN CUT AND FILL SECTIONS
	T.S. 7	DETECTORS
01/04	7-1	LOOP DETECTOR LOCATION AND INSTALLATION DETAILS
11/09	7-2	VEHICLE DETECTOR LOOPS FOR TRAFFIC COUNTERS
11/09	7-3 SHT 1	SPEED AND VEHICLE CLASS DETECTORS
11/09	7-3 SHT 2	SPEED AND VEHICLE CLASS DETECTORS
11/09	7-4	DETECTOR LOOPS AND PIEZOELECTRIC SENSOR DETAILS
01/04	7-5	PRE-FORMED LOOP DETECTORS FOR FMS/RAMP METERING/COUNT
01/04	7-6	PRE-FORMED LOOP DETECTORS IN BRIDGE
01/04	7-7	PRE-FORMED LOOP DETECTORS IN PCCP
01/04	7-8	PRE-FORMED LOOP DETECTOR STUB-OUT DETAIL
09/08	7-9	MICROLOOPS FOR SPEED/VEHICLE CLASSIFICATION
03/09	7-10 SHT 1	PIEZOELECTRIC WEIGHT SENSOR AND LOOP LAYOUT
03/09	7-10 SHT 2	PIEZOELECTRIC WEIGHT SENSOR AND LOOP LAYOUT
03/09	7-10 SHT 3	PIEZOELECTRIC WEIGHT SENSOR AND LOOP LAYOUT
12/08	7-11 SHT 1	QUARTZ PIEZOELECTRIC WEIGHT SENSOR AND LOOP LANE LAYOUT
12/08	7-11 SHT 2	QUARTZ PIEZOELECTRIC WEIGHT SENSOR AND LOOP LANE LAYOUT
11/09	7-12	CONTROL CABINET INSTALLATION DETAILS
	T.S. 8	SIGNAL ASSEMBLIES
09/04	8-1	SIGNAL FACES WITH BACKPLATES
09/04	8-2	SIGNAL FACES WITH BACKPLATES
09/04	8-3	SIGNAL FACES WITH BACKPLATES
01/04	8-4	VISORS FOR 8" AND 12" SIGNALS
	T.S. 9	MOUNTING ASSEMBLIES - SIGNAL
01/04	9-1	TYPE I & II MOUNTING ASSEMBLIES
01/04	9-2	TYPE III & IV MOUNTING ASSEMBLIES
01/04	9-3	TYPE V MOUNTING ASSEMBLY
01/04	9-4	TYPE VI MOUNTING ASSEMBLY
01/04	9-5	TYPE VII MOUNTING ASSEMBLY
01/04	9-6	TYPE VIII MOUNTING ASSEMBLY
01/04	9-7	TYPE IX MOUNTING ASSEMBLY
01/04	9-8	TYPE X MOUNTING ASSEMBLY
01/04	9-9	TYPE XI MOUNTING ASSEMBLY
	T.S. 10	MOUNTING CASTINGS - SIGNAL
01/04	10-1	MISCELLANEOUS SIGNAL MOUNTING PARTS
01/04	10-2	MAST ARM PLUMBIZER
01/04	10-3	POLE PLATE DETAIL
01/04	10-4	TERMINAL COMPARTMENT, SIDE MOUNTED AND POLE TOP MOUNTED
	T.S. 11	PEDESTRIAN DETAILS
01/04	11-1	TYPE I PEDESTRIAN PUSH BUTTON
01/04	11-2	TYPE II PEDESTRIAN PUSH BUTTON
01/04	11-3	SIGNS FOR PEDESTRIAN PUSH BUTTONS
01/04	11-4	SIGNS FOR INTERNATIONAL SYMBOL PUSH BUTTONS
	T.S. 12	FLASHERS
01/04	12-1	ADVANCE WARNING FLASHER POLE DETAIL
	T.S. 13	ILLUMINATION - SIGNS
11/04	13-1	SIGN LIGHTING DETAIL FOR TUBULAR SIGN STRUCTURES
11/04	13-2	SIGN LIGHTING DETAILS FOR TRUSS TYPE SIGNS
11/04	13-3	FUSE PANEL DETAILS FOR SIGN LIGHTING
11/04	13-4	SIGN LIGHTING DETAIL FOR MEDIAN MOUNTED SIGN
11/04	13-5	PLACEMENT OF LIGHTING FIXTURES FOR OVERHEAD SIGNS
	T.S. 14	ILLUMINATION - SPECIAL
01/04	14-1	PEDESTRIAN BRIDGE LIGHTING DETAILS
01/04	14-2	PEDESTRIAN BRIDGE LIGHTING DETAILS
	T.S. 15	SERVICE
01/04	15-1	PHOTO ELECTRIC CELL MOUNTING DETAILS
01/04	15-2	TYP. SPAN WIRE DETAILS FOR TEMPORARY SIGNALS

NO.	DESCRIPTION OF REVISION	DATE	MADE BY
00.1	RE-ISSUED T.S. 7-2, T.S. 7-3, T.S. 7-4 & ADDED NEW ISSUE T.S. 7-12	11/09	C. COLE
00.2		3/09	L. LOPEZ
00.0	RE-ISSUED T.S. 7-2, T.S. 7-3 & T.S. 7-10		

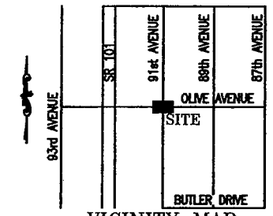
REDUCED SIZE
DO NOT SCALE

ADOT STANDARD DRAWINGS REVISION DATES and STANDARD NO.'s REVIEW		
TRAFFIC SIGNAL & LIGHTING STANDARDS	NAME	DATE 12-3-09
PROJECT NO. 0000 MA PEO SS 603 01 C		IC OF
AS BUILT DATA	FEDERAL AID NO. CM-PEO-0(009)A	AS BUILT DATE OF

INTERSECTION IMPROVEMENTS
91ST AVENUE AND OLIVE AVENUE
CITY OF PEORIA

A PORTION OF THE SOUTHEAST QUARTER OF
SECTION 28, T. 3 N., R. 1 E., G&SRM
PEORIA, ARIZONA

Project No. *P-0315*
Budget No. *PW0024~~X~~5*



VICINITY MAP
SECTION 28, T3N, R1E
NOT TO SCALE

NOTE: THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.

ADOT TRACS NO. 000 MA PEO SS 60301C
CITY OF PEORIA PROJECT NO. P-0315

CITY COUNCIL

MAYOR
Bob Barrett

VICE MAYOR
Ron Aames

COUNCIL MEMBERS
Carlo Leone
Joan Evans
Dave Pearson
Cathy Carlet
Vicki Hunt

BASIS OF BEARINGS:

THE BEARING LIES ON THE SOUTH LINE OF THE SOUTHEAST QUARTER OF SECTION 28, BEARING N 88°17'14" E

BENCHMARK:

BRASS CAP IN HAND HOLE AT THE INTERSECTION OF 91st AVENUE AND OLIVE AVENUE.
ELEVATION 1111.91 (TOP HH)
ELEVATION 1111.67 (TOP BC)
MARICOPA COUNTY BENCHMARK

APPROVALS

ENGINEERING DIRECTOR — DATE 3/19/10

For TRAFFIC ENGINEER — DATE 3/19/10

UTILITY CONTACTS:

THESE PLANS HAVE BEEN SUBMITTED TO THE FOLLOWING UTILITY COMPANIES AND THE WORK CONTAINED IN THESE PLANS HAS BEEN APPROVED BY THESE COMPANIES WITHIN THEIR AREA OF INTEREST. THE SIZE AND LOCATIONS, AS SHOW OF THE GAS, TELEPHONE AND POWER LINES, AND CONNECTIONS AGREE WITH THE INFORMATION CONTAINED IN THE UTILITY COMPANIES RECORDS. WHERE THE WORK TO BE DONE CONFLICTS WITH ANY OF THESE UTILITIES, THE CONFLICTS SHALL BE RESOLVED AS SPECIFIED IN THE SPECIAL PROVISIONS AND/OR AS OTHERWISE NOTED ON THESE PLANS. CONFLICTS ARISING DURING THE COURSE OF CONSTRUCTION FROM UNFORESEEN CIRCUMSTANCES SHALL BE REPORTED TO THE INTERESTED UTILITY COMPANY AND BE RESOLVED BY THEM AND THE DESIGN ENGINEER.

SRP IRRIGATION	KYLE TILGHMAN CO. REPRESENTATIVE CONTACTED	04/30/07 DATE SUBMITTED
SRP IRRIGATION	HECTOR BUENROSTRO CO. REPRESENTATIVE CONTACTED	04/30/07 DATE SUBMITTED
SRP POWER	AL BAIZEL CO. REPRESENTATIVE CONTACTED	04/30/07 DATE SUBMITTED
SRP POWER	SHARON BENSON CO. REPRESENTATIVE CONTACTED	04/30/07 DATE SUBMITTED
SRP POWER	RYAN ADAMS CO. REPRESENTATIVE CONTACTED	04/30/07 DATE SUBMITTED
APS POWER	RON GANDARA CO. REPRESENTATIVE CONTACTED	04/30/07 DATE SUBMITTED
COX COMMUNICATIONS	JOHN OCONNELL CO. REPRESENTATIVE CONTACTED	04/30/07 DATE SUBMITTED
SOUTHWEST GAS COMPANY	YVONNE AGUIRRE CO. REPRESENTATIVE CONTACTED	04/30/07 DATE SUBMITTED
QWEST	RON FLOYD CO. REPRESENTATIVE CONTACTED	04/30/07 DATE SUBMITTED

AS-BUILT CERTIFICATION

THESE PLANS INDICATE INFORMATION PROVIDED AS RECORD OF CONSTRUCTION

REVIEWED BY:

DATE:

RESIDENT ENGINEER:

COMPLETION DATE:

INDEX OF DRAWINGS

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3, 4	GN-01 – GN-02	GENERAL NOTES
5	KM-01	KEY MAP AND DESIGN DATA
6–7	QS-01 – QS-02	QUANTITIES SHEETS
8–11	TX-01 – TX-04	TYPICAL SECTIONS
12–14	RT-01 – RT-03	RETAINING WALL SHEETS
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Kimley-Horn and Associates, Inc.
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7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
COVER SHEET AND NOTES

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO. 31673
RAJESH S. CHRISTIAN
Date Signed 3-19-10
ARIZONA, U.S.A.
Expires 06/30/2010

DESIGNED BY: LJA
DRAWN BY: LJA/TEM
SCALE:
HORIZONTAL= N/A
VERTICAL= N/A
SHEET CV-01
SHEET 2 OF 104
DATE 11/2009
W.O.

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

GENERAL NOTES:

1. THE CITY ENGINEER DOES NOT WARRANT ANY QUANTITIES SHOWN ON THESE PLANS.

2. OFF-SITE PERMITS FOR ANY WORK WITHIN THE RIGHT-OF-WAY AND EASEMENTS, AND ANY GRADING AND DRAINAGE, WHETHER ON-SITE OR OFF-SITE, ARE REQUIRED PRIOR TO COMMENCING WORK. THE BUILDING PERMIT SHALL NOT BE CONSTRUED BY ANY WAY AS PERMISSION TO COMMENCE WORK COVERED BY AN OFF-SITE PERMIT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER TO UNDERSTAND THE WORK COVERED BY VARIOUS PERMITS.

3. ALL UNDERGROUND TANKS REQUIRE A PERMIT FROM THE FIRE DEPARTMENT PRIOR TO REMOVAL.

4. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY THE PRESENCE AND LOCATION OF ALL EXISTING OVERHEAD AND/OR UNDERGROUND UTILITIES THAT MAY INTERFERE WITH THIS CONSTRUCTION, WHETHER OR NOT SAID UTILITIES ARE SHOWN ON THE CONSTRUCTION PLANS FOR THIS PROJECT AND TO ADEQUATELY PROTECT AND MAINTAIN ANY SUCH UTILITIES.

5. THE CONTRACTOR SHALL CONTACT BLUE STAKE (602) 263-1100 PRIOR TO CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CURRENT BLUE STAKE MARKINGS THROUGHOUT CONSTRUCTION.

6. THE CONTRACTOR SHALL OBTAIN A FIRE HYDRANT METER FOR CONSTRUCTION FROM THE MANAGEMENT SERVICES DEPARTMENT, CUSTOMER SERVICES. CONTACT CUSTOMER SERVICE AT (623) 773-7160 TO SCHEDULE THE RELOCATION OF HYDRANT METERS. CONTRACTORS SHALL NOT RELOCATE HYDRANT METERS THEMSELVES.

7. ALL CONTRACTORS/DEVELOPERS ARE RESPONSIBLE TO CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES IN ORDER TO REDUCE OR ELIMINATE THE TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAYS OR STREETS. GRAVEL TRACK-OUT PADS SHALL MEET CURRENT MARICOPA COUNTY STANDARDS.

8. TRAFFIC CONTROL SHALL CONFORM WITH THE CITY OF PHOENIX TRAFFIC BARRICADE MANUAL, MUTCD, AND THE CITY OF PEORIA INFRASTRUCTURE DEVELOPMENT DESIGN GUIDELINES.

9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER TO OBTAIN ANY AND ALL OTHER PERMITS AND MEET ANY REQUIREMENTS SET FORTH BY OTHER AGENCIES OR UTILITIES, WHICH HAVE JURISDICTION, AT THE CONTRACTORS/DEVELOPERS EXPENSE, INCLUDING OSHA. CONTRACTOR SHALL MEET OSHA STANDARDS FOR TRENCH SAFETY.

10. AS A REMINDER, MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT HAS ASKED THE CITY TO INFORM ALL CONTRACTORS/DEVELOPERS WORKING IN THE CITY OF PEORIA OF THE FOLLOWING:

PER THE MARICOPA COUNTY AIR POLLUTION CONTROL RULES AND REGULATIONS ON EARTH MOVING EQUIPMENT PERMITS, NO PERSON SHALL CAUSE OR PERMIT THE USE OF ANY POWER OF MECHANICAL EQUIPMENT FOR COMMERCIAL PURPOSES TO CLEAR, EXCAVATE OR LEVEL LAND, INCLUDING BUT NOT LIMITED TO BLASTING, DEMOLITION, ROAD AND STREET CONSTRUCTION, SWIMMING POOL EXCAVATING, TRENCHING, VEGETATION REMOVAL, OR ENGAGE IN ANY OTHER EARTH MOVING ACTIVITIES WITHOUT FIRST OBTAINING A PERMIT FROM THE MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT. THE PROPERTY OWNER, LESSEE, DEVELOPER, OR PRIME CONTRACTOR WILL BE RESPONSIBLE FOR ACQUIRING THE PERMIT.

ALSO AS A REMINDER, IF THE ABOVE REFERENCED DEVELOPMENT HAS WORK THAT NEEDS TO BE DONE IN THE MARICOPA COUNTY RIGHTS-OF-WAY, PLEASE OBTAIN ALL PERMITS FROM THE MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION. THE OFF-SITE PERMITS ISSUED BY THE CITY OF PEORIA DO NOT COVER THE MARICOPA COUNTY RIGHTS-OF-WAY.

PAVING:

1. ALL CONTRACTORS/DEVELOPERS SHALL COMPLY WITH THE CITY OF PEORIA DETAIL PE-211 FOR TRENCH PLATING.

2. IN ALL AREAS WHERE NEW CONSTRUCTION OF CURB, GUTTER, SIDEWALKS, AND DRIVEWAYS IS REQUIRED, AND THE ENGINEER DETERMINES THE EXISTING GRADE TO CONSIST OF SOILS WITH SWELLING CHARACTERISTICS, THE MOISTURE CONTENT SHALL BE BROUGHT AS CLOSE AS POSSIBLE TO OPTIMUM REQUIRED FOR COMPACTION BY THE ADDITION OF WATER, BLENDING OF DRY SUITABLE MATERIAL OR BY DRYING OF EXISTING MATERIAL. THE MATERIAL SHALL THEN BE COMPACTED TO A RELATIVE DENSITY OF 75 PERCENT MINIMUM TO 85 PERCENT MAXIMUM WITH 80 PERCENT AS IDEAL.

3. CONSTRUCTION LOADS: DURING CONSTRUCTION OPERATIONS, HEAVY EQUIPMENT MAY CROSS EXISTING OR PROPOSED PIPE. IN THIS CASE, AN EARTH FILL SHOULD BE CONSTRUCTED TO AT LEAST THREE (3) FEET ABOVE PIPE. THE FILL MUST BE SUFFICIENT TO PREVENT THE LATERAL DISPLACEMENT OF THE PIPE.

SIGNING & STRIPING:

1. ALL SIGNS ARE TO BE ASTM TYPE IV HIGH INTENSITY SHEETING.

2. THE CONTRACTOR SHALL RETURN ALL REMOVED TRAFFIC SIGNAL EQUIPMENT / SIGNS TO THE CITY OF PEORIA MUNICIPAL OPERATIONS CENTER, 8850 NORTH 79TH AVENUE. CONTACT THE TRAFFIC MAINTENANCE SUPERVISOR AT (623) 773-7470.

3. SIGNING AND STRIPING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) ADOPTED BY THE ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT).

4. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TO THE FACE OF CURB AND THE CENTER OF THE STRIPE. IN THE CASE OF A DOUBLE STRIPE, DIMENSION IS TO THE CENTER OF THE DOUBLE STRIPE.

ADOT GENERAL NOTES

1. ALL WORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ADOT 2008 EDITION STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.

2. ALL WORK NOT IN CONFORMANCE WITH THESE PLANS AND ADOT SPECIFICATIONS SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE.

3. TRAFFIC SHALL BE PROTECTED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2003 EDITION WITH REVISION 1, THE ARIZONA SUPPLEMENT TO THE MUTCD 2003 EDITION, AND THE ADOT TRAFFIC CONTROL DESIGN GUIDELINES. ALL SIGNS, PLACEMENT OF SIGNS, THE NECESSITY OF FLAG PERSONS AND UNIFORMED OFFICERS ARE THE RESPONSIBILITY OF THE PERMITTEE.

4. R/W MARKERS, DISTURBED, DESTROYED OR REMOVED SHALL BE REPLACED BY A R.L.S. PER CONSTRUCTION STANDARD DRAWING C-21.10

5. ALL SAWCUTS SHALL BE CONSTRUCTED AS FULL DEPTH.

6. THE PROJECT WILL BE CONSTRUCTED IN ACCORDANCE WITH PART VI OF THE MUTCD, 2003 EDITION, THE ARIZONA SUPPLEMENT, AND THE SPECIAL PROVISIONS.

REDUCED SIZE
DO NOT SCALE

CALL TEN WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

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ADOT TRACS NO. 000 MA PEO SS60301C
CITY OF PEORIA PROJECT NO. P-0315

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7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
GENERAL NOTES

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
31673
RAJESH S. CHRISTIAN
Date Signed 12.4.09
ARIZONA, U.S.A.
Expires 09/30/2010

DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= N/A VERTICAL= N/A	
SHEET	GN-01
SHEET	3 OF 104
DATE	11/2009
W.O.	

GRADING AND DRAINAGE:

1. A SEPARATE HAUL PERMIT SHALL BE REQUIRED WHENEVER HAULING IN EXCESS OF 500 CUBIC YARDS OF MATERIAL IN OR OUT OF A SITE. A HAUL ROUTE MUST BE SUBMITTED AND APPROVED BY THE ENGINEERING DEPARTMENT. ADDITIONAL REQUIREMENTS AS SET FORTH BY THE ENGINEERING DEPARTMENT SHALL BE MET.

WATER:

1. A CITY OF PEORIA OFF-SITE PERMIT IS REQUIRED. OTHER PERMITS, AS REQUIRED, SHALL BE SECURED FROM THE APPROPRIATE AGENCY; I.E. COUNTY PERMITS FOR COUNTY RIGHT-OF-WAY.

2. ACCEPTABLE WATER LINE MATERIALS:

   A. DUCTILE IRON PIPE, PRESSURE CLASS 350, IS ACCEPTABLE FOR WATER LINES SIZES 8 -INCHES THROUGH 12-INCHES IN DIAMETER.

   B. DUCTILE IRON PIPE, PRESSURE CLASS 250 MINIMUM, IS ACCEPTABLE FOR WATER LINES 16 INCHES IN DIAMETER.

   C. DUCTILE IRON PIPE SHALL BE POLYWRAPPED. POLYWRAP FOR DUCTILE IRON PIPE SHALL CONFORM TO SECTION 610.5 OF THE MAG STANDARD SPECIFICATIONS.

3. LESS THAN 12-INCH WATERLINES SHALL HAVE A MINIMUM COVER OF 48-INCHES OVER THE TOP OF THE PIPE TO FINISH GRADE, UNLESS DESIGN CONDITIONS WARRANT ADDITIONAL COVER.

4. 12-INCH OR LARGER WATERLINES LOCATED IN STREETS SHALL HAVE A MINIMUM COVER OF 60 INCHES OVER THE TOP OF THE PIPE TO FINISH GRADE, UNLESS DESIGN CONDITIONS WARRANT ADDITIONAL COVER.

5. ALL STUB-OUTS SHALL HAVE A TWO (2) INCH BRASS BALL CORP STOP AS A BLOW-OFF, LEFT IN PLACE WITH A TWO (2) INCH RISER, PER MAG STANDARD DETAIL 390 "A," AND SHALL BE ACCESSIBLE TO USE.

6. FIRE HYDRANTS SHALL CONFORM TO CITY OF PEORIA DETAIL PE-360-1 OR PE-360-2, AS APPLICABLE. FIRE HYDRANT MANUFACTURER MUST BE APPROVED BY THE CITY OF PEORIA PRIOR TO INSTALLATION.

7. ALL VALVES 16 INCHES AND UNDER SHALL BE RESILIENT SEAT AWWA APPROVED GATE VALVES AND SHALL OPEN BY TURNING COUNTER-CLOCKWISE.

8. VALVES SHALL NOT BE LOCATED IN SIDEWALKS, GUTTERS, CURB, OR VALLEY GUTTERS.

9. ALL VALVE BOXES SHALL CONFORM TO MAG STANDARD DETAIL 391-1, TYPE A AND CITY OF PEORIA DETAIL PE-270.

10. CONTRACTORS SHALL NOT OPERATE VALVES ON THE EXISTING CITY SYSTEM.

11. WATER LINES SHALL BE INSTALLED IN SUCH A MANNER TO ELIMINATE DIPS OR HIGH POINTS. WATER LINES CONSTRUCTED ON LINEAR STREETS SHALL NOT HAVE HORIZONTAL ALIGNMENT DEFLECTIONS. ALL HORIZONTAL DEFLECTIONS IN WATER LINES (CONSTRUCTED IN NONLINEAR STREETS) SHALL COMPLY WITH THE MANUFACTURER'S RECOMMENDATIONS FOR DEFLECTION AT JOINTS.

12. ALL JOINTS RESTRAINTS SHALL BE INSPECTED PRIOR TO BACKFILL. FOR THRUST RESTRAINTS, REINFORCING STEEL AND FORM WORK SHALL BE INSPECTED PRIOR TO PLACING CONCRETE FOR THRUST BLOCKS. THRUST RESTRAINT SHALL CONFORM TO MAG STANDARD SPECIFICATION 610.4 AND MAG STANDARD DETAILS 301, 380 AND 381.

13. WATER SERVICES TWO-INCHES AND SMALLER IN DIAMETER SHALL CONFORM TO THE CITY OF PEORIA STANDARD DETAIL PE-363. THE MINIMUM SIZE SERVICE CONNECTION SHALL BE ONE-INCH.

14. WATER SERVICES SHALL NOT BE LOCATED UNDER DRIVEWAYS, OR UNDER CONCRETE APRONS ADJACENT TO DRIVEWAYS.

15. ALL WATER LINES REQUIRE THE INSTALLATION OF METALLIC LOCATING TAPE, IN ACCORDANCE WITH MAG SPEC. 616.4. THE TAPE SHALL BE SOLID BLUE IN COLOR. MARKINGS SHALL BE IN ACCORDANCE WITH MAG SPEC. 616.4 EXCEPT WITH THE FOLLOWING WORDS PRINTED THEREON "CAUTION POTABLE WATER LINE BELOW". INSTALLATION OF THE PIPE LOCATING TAPE SHALL BE PER MAG SPECIFICATION 616.4 AND PLACED 2' ABOVE THE TOP OF PIPE.

16. ALL PAVEMENT REPLACEMENT SHALL CONFORM WITH MAG STANDARD DETAIL 200 WITH A "T-TOP" - MODIFIED WITH A ONE-HALF (1/2) SACK PORTLAND CEMENT ABC SLURRY, WHICH CONFORMS WITH MAG STANDARD SPECIFICATION 728, (MODIFIED FOR ONE-HALF SACK PORTLAND CEMENT), FOR TRENCH BACKFILL FROM ONE (1) FOOT ABOVE THE TOP OF PIPE TO THE EXISTING PAVEMENT SUBGRADE. PAVEMENT REPLACEMENT THICKNESS SHALL BE 1.5 TIMES THE EXISTING ASPHALT THICKNESS.

17. TO REQUEST A WATER SYSTEM SHUT DOWN A WATER SYSTEM SHUT REQUEST FORM MUST BE SUBMITTED. THIS FORM SHALL BE SUBMITTED 10 WORKING DAYS IN ADVANCE OF ANY REQUESTS TO SHUT DOWN ANY LINES IN THE CITY OF PEORIA'S POTABLE WATER DISTRIBUTION SYSTEM. THE FORM IS TO BE SUBMITTED THROUGH THE ENGINEERING OFF-SITE INSPECTOR ASSIGNED TO THE PROJECT, WHO WILL IN TURN COORDINATE WITH NECESSARY UTILITY STAFF. FAILURE TO COMPLETE THIS FORM WILL RESULT IN DELAYS TO CONSTRUCTION ACTIVITIES.

18. PRESSURE TESTING SHALL NOT BE CONDUCTED UNTIL AFTER THE CONTRACTOR HAS PRETESTED 100% OF THE LINES. INSPECTION TESTING MUST BE CALLED FOR 24 HOURS IN ADVANCE. WATER LINES MUST PASS PRESSURE TESTING PRIOR TO PAVING.

19. ALL MAINS SHALL BE CHLORINATED IN CONFORMANCE WITH DEVELOPMENT GUIDLINES SECTION 5-30.

20. THE CONTRACTOR SHALL NOT TIE INTO EXISTING MAINS WITHOUT PRIOR APPROVAL OF THE CITY'S OFF-SITE INSPECTOR.

21. THE FOLLOWING MAG UNIFORM STANDARD DETAILS ARE SPECIFICALLY <u>NOT</u> APPROVED.

NO. 345-2	4", 6" WATER METER
NO. 360	FIRE HYDRANT INSTALLATION
NO. 389	CURB STOP WITH VALVE BOX & COVER
NO. 391-1	VALVE BOX INSTALLATION AND GRADE ADJUSTMENT, TYPES "B" & "C"

22. NO WATER LINES SHALL BE LOCATED WITHIN RETENTION/DETENTION BASINS.

23. ALL WATER VALVES LOCATED OUTSIDE PAVED AREAS SHALL HAVE A 'CURVE-FLEX' UTILITY MARKER AS MANUFACTURED BY CARSONITE (CFRM-400-BLUE).

LANDSCAPE AND IRRIGATION

1. PERMITS ARE REQUIRED FOR ELECTRICAL CONNECTIONS, INCLUDING ELECTRIC METER INSTALLATION, BACKFLOW PREVENTERS, AND WORK WITHIN THE CITY RIGHT-OF-WAY OR CITY DEDICATED PROPERTY. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THESE PERMITS PRIOR TO THE COMMENCEMENT OF ANY WORK.

2. ALL LANDSCAPE PROJECTS REQUIRING CITY MAINTENANCE OR WITHIN THE CITY RIGHT-OF-WAY SHALL BE INSPECTED FOR THE FOLLOWING:

   A. PLANT LOCATIONS: THESE LOCATIONS SHALL BE STAKED IN THE FIELD WITH INDENTIFICATION AS TO TREES OR SHRUBS; OR HOLES FOR THE PLANT MATERIALS MAY BE DUG WITH IDENTIFICATION OF PLANT TYPE. USE OF THIS METHOD DOES NOT RELIEVE THE CONTRACTOR OF ANY PLANT RELOCATIONS MADE BY THE CITY.

   B. IRRIGATION INSTALLATION: INSPECTIONS SHALL BE MADE AT THE POINT THE IRRIGATION SYSTEM IS INSTALLED. INSPECTIONS OF THE PIPE DEPTH, AUTOMATIC VALVE INSTALLATION AND EMITTER/SPRAY INSTALLATIONS WILL BE MADE.

   C. SUBSTANTIAL COMPLETION: AN INSPECTION AT COMPLETION OF THE LANDSCAPE AND IRRIGATION INSTALLATION WILL BE MADE. ANY DEFICIENCIES IN THE INSTALLATION WILL BE NOTED AND CORRECTED BY THE CONTRACTOR DURING THE MAINTENANCE PERIOD.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION, COST AND REQUIRED PERMIT FEES FOR THE WATER METER(S) DESIGNATED TO SERVE THE IRRIGATION SYSTEM.

4. PLANTINGS SHALL NOT INTERFERE WITH ANY TRAFFIC CONTROL SIGNS AND SHALL MAINTAIN A MAXIMUM HEIGHT OF 2'-6" WITHIN ANY SIGHT DISTANCE TRIANGLES.

5. INSTALLATION OF THE LANDSCAPE AND IRRIGATION SYSTEM INCLUDING ADDITION OF GROUND PLANT MATERIALS SHALL NOT IMPEDE THE FLOW OF DESIGNED DRAINAGE FACILITIES NOR DECREASE THE DESIGN VOLUME OF ANY DETENTION/RETENTION BASINS.

6. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UNDERGROUND UTILITIES DURING THE LANDSCAPE AND IRRIGATION INSTALLATION.

7. ALL TREES SHALL MAINTAIN A MINIMUM OF 6'-0" CLEARANCE FROM ANY CITY WATER OR SEWER LINE. ALL PLANTINGS SHALL MAINTAIN A SUFFICIENT DISTANCE TO ANY SANITARY AND STORM SEWER MANHOLES TO ALLOW ACCESS BY MAINTENANCE VEHICLES.

8. A SWALE A MINIMUM OF 6" IN DEPTH SHALL BE PROVIDED IN ALL LANDSCAPE AREAS WITHIN THE CITY RIGHT-OF-WAY PER CITY DETAIL TO PROMOTE WATER HARVESTING.

9. ALL PLANTING AREAS (EXCEPT TURF AREAS) TO BE MAINTAINED BY THE CITY SHALL BE TREATED WITH A PRE-EMERGENT HERBICIDE BY A LICENSED APPLICATOR PRIOR TO AND AFTER THE PLACEMENT OF THE DECOMPOSED GRANITE, RIVER ROCK ETC. APPLICATION DOCUMENTATION WILL BE REQUIRED PRIOR TO ACCEPTANCE OF THE LANDSCAPING BY THE CITY.

REDUCED SIZE
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ADOT TRACS NO.
0000 MA PEO
SS60301C

CITY OF PEORIA
PROJECT NO. P-0315

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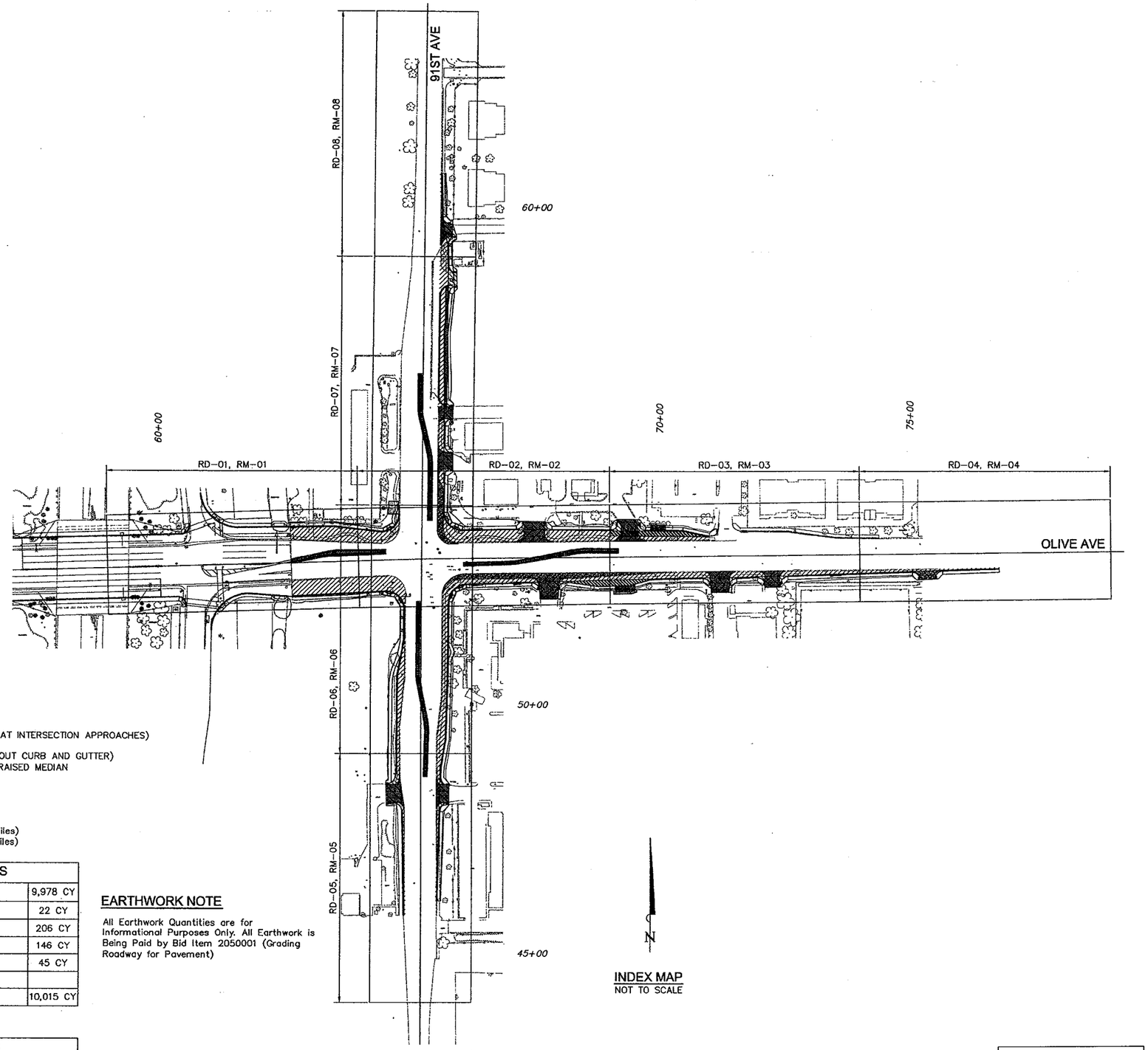
7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
GENERAL NOTES

Registered Professional Engineer (Civil) CERTIFICATE NO. 31673 RAJESH S. CHRISTIAN Date Signed 12.3.09 ARIZONA, U.S.A. Expires 09/30/2010

DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= N/A VERTICAL= N/A	
SHEET	GN-02
SHEET	4 OF 104
DATE	11/2009
W.O.	



INDEX MAP
NOT TO SCALE

DESIGN DATA

CLASSIFICATION.....MAJOR ARTERIAL
TERRAIN.....LEVEL
DESIGN SPEED.....50 MPH (40 MPH AT INTERSECTION APPROACHES)
DESIGN VEHICLE.....WB-50
LANE WIDTH.....11' MINIMUM (WITHOUT CURB AND GUTTER)
MEDIAN.....MINIMUM 4' WIDE RAISED MEDIAN

LENGTH OF PROJECT

OLIVE AVENUE.....1412.47' (0.27 Miles)
91ST AVENUE.....1494.18' (0.28 Miles)

EARTHWORK QUANTITIES	
ROADWAY EXCAVATION	9,978 CY
SHRINK	22 CY
PIPE EXCAVATION	206 CY
ROADWAY EMBANKMENT (INCL GND COMP)	146 CY
PIPE BACKFILL	45 CY
WASTE	10,015 CY

EARTHWORK NOTE

All Earthwork Quantities are for Informational Purposes Only. All Earthwork is Being Paid by Bid Item 2050001 (Grading Roadway for Pavement)

EARTHWORK FACTORS		
LOCATION	SHRINK/SWELL	GROUND COMPACTION
91ST AVENUE	15% SHRINK	0.20'
OLIVE AVENUE	15% SHRINK	0.20'

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ADOT TRACS NO.
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SS 60301C

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91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS KEY MAP AND DESIGN DATA

Registered Professional Engineer (Civil)
CERTIFICATE NO. 31673
RAJESH S. CHRISTIAN
Date Signed 12-2-09
ARIZONA, U.S.A.
Expires 09/30/2010

DESIGNED BY: LJA
DRAWN BY: LJA/TEM
SCALE:
HORIZONTAL= NTS
VERTICAL= N/A
SHEET KM-01
SHEET 5 OF 104
DATE 11/2009
W.O.

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REMOVAL

ITEM No.	ITEM DESCRIPTION	UNIT	TOTAL	SHEET RM-01	SHEET RM-02	SHEET RM-03	SHEET RM-04	SHEET RM-05	SHEET RM-06	SHEET RM-07	SHEET RM-08
2020001	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.SUM	1	–	–	–	–	–	–	–	–
2020020	REMOVAL OF CONCRETE CURB	L.FT.	470	–	120	189	–	87	–	63	11
2020021	REMOVAL OF CONCRETE CURB AND GUTTER	L.FT.	3639	269	1053	703	278	502	580	165	89
2020025	REMOVAL OF CONCRETE SIDEWALKS, DRIVEWAYS AND SLABS	SQ.FT.	22740	925	6432	4914	661	2936	2846	2560	1466
2020031	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT	SQ.YD.	559	–	453	41	–	–	–	65	–
2020034	REMOVAL OF SIGNS	L.SUM	1	–	–	–	–	–	–	–	–
2020042	REMOVAL OF PIPE (SLOTTED DRAIN)	L.FT.	80	–	80	–	–	–	–	–	–
2020052	REMOVE (BLOCK WALL)	L.FT.	170	54	106	10	–	–	–	–	–
2020053	REMOVE (CATCH BASIN)	EACH	4	1	1	1	–	–	–	1	–
2020054	REMOVE (PULL BOX)	EACH	14	14	–	–	–	–	–	–	–
2020081	REMOVE BITUMINOUS PAVEMENT (MILLING) (1")	SQ.YD.	20704	20704	–	–	–	–	–	–	–
2020153	REMOVE (VIDEO DETECTION SYSTEM)	L.SUM	1	–	–	–	–	–	–	–	–
2050001	GRADING ROADWAY FOR PAVEMENT	SQ.YD.	6579	983	2443	1053	98	277	817	805	103

ROADWAY & TRAFFIC IMPROVEMENTS

ITEM No.	ITEM DESCRIPTION	UNIT	TOTAL	SHEET RD-01	SHEET RD-02	SHEET RD-03	SHEET RD-04	SHEET RD-05	SHEET RD-06	SHEET RD-07	SHEET RD-08
3030022	AGGREGATE BASE, CLASS 2	CU.YD.	2123	318	807	287	33	92	270	268	35
3060001	GEOGRID BASE REINFORCEMENT	SQ.YD.	6370	953	2421	862	98	277	810	805	103
4010008	PORTLAND CEMENT CONCRETE PAVEMENT (8")	SQ.YD.	347	–	77	271	–	–	–	–	–
4040111	BITUMINOUS TACK COAT	TON	2	0.33	0.81	0.29	0.03	0.09	0.27	0.27	0.03
4040116	APPLY BITUMINOUS TACK COAT	HOUR	8	1.20	2.98	1.05	0.12	0.34	1.00	0.98	0.13
4060018	ASPHALTIC CONCRETE (C 3/4" MIX) (CITY OF PEORIA)	TON	1510	209	530	189	21	61	177	289	26
4140040	ASPHALTIC CONCRETE FRICTION COURSE (ASPHALT-RUBBER)	TON	1997	1558	179	64	7	20	60	98	8
4140042	ASPHALT RUBBER MATERIAL (FOR AR-ACFC)	TON	191	146	17	6	1	2	6	13	1
4140044	MINERAL ADMIXTURE (FOR AR-ACFC)	TON	20	15	2	1	–	–	1	1	–
5012515	STORM DRAIN PIPE, 15"	L.FT.	18	18	–	–	–	–	–	–	–
5012518	STORM DRAIN PIPE, 18"	L.FT.	204	204	–	–	–	–	–	–	–
5030337	CATCH BASIN,TYPE B, B=10' (MAG DET. 531)	EACH	3	1	1	–	–	–	–	1	–
5030273	CATCH BASIN, TYPE M-1 (L=10') (PHOENIX DET. P-1569)	EACH	1	–	1	–	–	–	–	–	–
5030274	CATCH BASIN, TYPE M-1 (L=17') (PHOENIX DET. P-1569)	EACH	4	–	2	1	–	–	–	1	–
5030371	CATCH BASIN, TYPE F, (MAG DET. 535)	EACH	1	1	–	–	–	–	–	–	–
6070046	FOUNDATION FOR SIGN POST (P-1)(PERFORMATED)	EACH	26	–	–	–	–	–	–	–	–
6070054	SIGN POST (PERFORATED) (2 S)	L.FT.	250	–	–	–	–	–	–	–	–
6080003	REGULATORY,WARN, OR MARKER SIGN PANEL W/TYP III/IV SHEET	SQ.FT.	179	–	–	–	–	–	–	–	–
6080101	MISCELLANEOUS WORK (SIGNS)	L.SUM	1	–	–	–	–	–	–	–	–
7015091	SPECIALTY SIGNS	SQ.FT.	72	–	–	–	–	–	–	–	–
7016030	BARRICADE (TYPE II, VERT.PANEL, TUBULAR MARKER)	EACH-DAY	9891	–	–	–	–	–	–	–	–
7016031	BARRICADE (TYPE III, HIGH LEVEL FLAG TREES)	EACH-DAY	15	–	–	–	–	–	–	–	–
7016033	PORTABLE SIGN STANDS (SPRING TYPE)	EACH-DAY	6981	–	–	–	–	–	–	–	–
7016035	WARNING LIGHTS (TYPE A)	EACH-DAY	8556	–	–	–	–	–	–	–	–
7016037	WARNING LIGHTS (TYPE C)	EACH-DAY	9726	–	–	–	–	–	–	–	–
7016038	TRAFFIC CONE (28 INCHES)	EACH-DAY	255	–	–	–	–	–	–	–	–
701039	EMBEDDED SIGN POST	EACH-DAY	3816	–	–	–	–	–	–	–	–
7016051	TEMPORARY SIGN (LESS THAN 10 S.F.)	EACH-DAY	6929	–	–	–	–	–	–	–	–
7016052	TEMPORARY SIGN (10 S.F. OR MORE)	EACH-DAY	1960	–	–	–	–	–	–	–	–
7016061	FLASHING ARROW PANEL	EACH-DAY	672	–	–	–	–	–	–	–	–
7016075	FLAGGING SERVICES (CIVILIAN)	HOUR	303	–	–	–	–	–	–	–	–
7016078	FLAGGING SERVICES (LOCAL ENFORCEMENT OFFICER)	HOUR	668	–	–	–	–	–	–	–	–
7030080	OBJECT MARKER (M-23) (TYPE 3(1))	EACH	6	–	–	–	–	–	–	–	–
7040003	PAVEMENT MARKING (WHITE SPRAYED THERMOPLASTIC)(0.060")	L.FT.	9401	–	–	–	–	–	–	–	–
7040004	PAVEMENT MARKING (YELLOW SPRAYED THERMOPLASTIC)(0.060")	L.FT.	6542	–	–	–	–	–	–	–	–
7040024	PAVEMENT SYMBOL (WHITE SPRAYED THERMOPLASTIC) (0.090")	EACH	16	–	–	–	–	–	–	–	–
7040072	PAVEMENT MARKING (TRANSVERSE) (THERMOPLASTIC) (ALKYD) (0.090")	L.FT.	3432	–	–	–	–	–	–	–	–
7060013	PAVEMENT MARKER, RAISED, TYPE C	EACH	181	–	–	–	–	–	–	–	–
7060015	PAVEMENT MARKER, RAISED, TYPE D	EACH	352	–	–	–	–	–	–	–	–
7080001	PERMANENT PAVEMENT MARKING (PAINTED) (WHITE)	L.FT.	1144	–	–	–	–	–	–	–	–
7080121	PERMANENT PAVEMENT MARKING (PAINTED SYMBOL) (ARROW)	EACH	4	–	–	–	–	–	–	–	–
7310010	POLE (TYPE A)	EACH	4	–	–	–	–	–	–	–	–
7310140	POLE (TYPE R)	EACH	3	–	–	–	–	–	–	–	–
7310141	POLE (TYPE R) (MODIFIED)	EACH	1	–	–	–	–	–	–	–	–
7310187	POLE (SPECIAL) (PER UTILITY COMPANY STD DWGS)	EACH	23	–	–	–	–	–	–	–	–
7310200	POLE FOUNDATION (TYPE A)	EACH	4	–	–	–	–	–	–	–	–
7310320	POLE FOUNDATION (TYPE R)	EACH	3	–	–	–	–	–	–	–	–
7310371	POLE FOUNDATION (TYPE R) MODIFIED	EACH	1	–	–	–	–	–	–	–	–
7310551	MAST ARM (20 FT.) (TAPERED)	EACH	3	–	–	–	–	–	–	–	–
7310561	MAST ARM (25 FT.) (TAPERED)	EACH	1	–	–	–	–	–	–	–	–
7310600	MAST ARM (45 FT.) (TAPERED)	EACH	1	–	–	–	–	–	–	–	–
7310610	MAST ARM (50 FT.) (TAPERED)	EACH	1	–	–	–	–	–	–	–	–
7310620	MAST ARM (55 FT.) (TAPERED)	EACH	1	–	–	–	–	–	–	–	–
7310650	MAST ARM (PER UTILITY COMPANY STD DWGS)	EACH	23	–	–	–	–	–	–	–	–
7310652	MAST ARM (60 FT.) (TAPERED)	EACH	1	–	–	–	–	–	–	–	–
7310812	REMOVE AND SALVAGE EXISTING LIGHTING POLES	EACH	11	–	–	–	–	–	–	–	–
7310821	REMOVE EXISTING FOUNDATIONS	EACH	4	–	–	–	–	–	–	–	–

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91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
QUANTITIES SHEET

Registered Professional Engineer (Civil) CERTIFICATE NO. 31673 RAJESH S. CHRISTIAN Date Signed 12.3.09 ARIZONA, U.S.A. Expires 09/30/2010

DESIGNED BY: LJA
DRAWN BY: LJA/TEM
SCALE:
HORIZONTAL= N/A
VERTICAL= N/A
SHEET QS-01
SHEET 6 OF 104
DATE 11/2009
W.O.

ROADWAY & TRAFFIC IMPROVEMENTS

ITEM No.	ITEM DESCRIPTION	UNIT	TOTAL	SHEET RD-01	SHEET RD-02	SHEET RD-03	SHEET RD-04	SHEET RD-05	SHEET RD-06	SHEET RD-07	SHEET RD-08
7320030	ELECTRICAL CONDUIT (1") (PVC)	L.FT.	460	–	–	–	–	–	–	–	–
7320050	ELECTRICAL CONDUIT (2") (PVC)	L.FT.	2250	–	–	–	–	–	–	–	–
7320060	ELECTRICAL CONDUIT (2 1/2") (PVC)	L.FT.	3905	–	–	–	–	–	–	–	–
7320070	ELECTRICAL CONDUIT (3") (PVC)	L.FT.	1330	–	–	–	–	–	–	–	–
7320291	ELECTICAL CONDUIT (4-1 1/4") (HDPE DIRECTIONAL DRILL)	L.FT.	155	–	–	–	–	–	–	–	–
7320410	PULL BOX (NO. 5)	EACH	10	–	–	–	–	–	–	–	–
7320420	PULL BOX (NO. 7)	EACH	3	–	–	–	–	–	–	–	–
7320421	PULL BOX (NO. 7) (WITH EXTENSION)	EACH	1	–	–	–	–	–	–	–	–
7320456	PULL BOX (NO. 9) UTILITY COMPANY SUPPLIED	EACH	27	–	–	–	–	–	–	–	–
7320460	PULL BOX (STANDARD DETAIL PE-034) CITY OF PEORIA	EACH	1	–	–	–	–	–	–	–	–
7320650	CONDUCTORS	EACH	1	–	–	–	–	–	–	–	–
7320789	SINGLE MODE FIBER OPTIC CABLE (12 FIBER)	L. FT.	65	–	–	–	–	–	–	–	–
7320794	FIBER OPTIC SLICE CLOSURE (SPLICE CLOSURE)	EACH.	1	–	–	–	–	–	–	–	–
7330060	TRAFFIC SIGNAL FACE (TYPE F)	L.SUM	8	–	–	–	–	–	–	–	–
7330130	TRAFFIC SIGNAL FACE (TYPE Q)	EACH	4	–	–	–	–	–	–	–	–
7330135	TRAFFIC SIGNAL FACE (TYPE R)	EACH	8	–	–	–	–	–	–	–	–
7330210	TRAFFIC SIGNAL FACE (PEDESTRIAN) (MAN/HAND)	EACH	8	–	–	–	–	–	–	–	–
7330220	PEDESTRIAN PUSH BUTTON	EACH	8	–	–	–	–	–	–	–	–
7330310	TRAFFIC SIGNAL MOUNTING ASSEMBLY (TYPE II)	EACH	12	–	–	–	–	–	–	–	–
7330340	TRAFFIC SIGNAL MOUNTING ASSEMBLY (TYPE V)	EACH	4	–	–	–	–	–	–	–	–
7330360	TRAFFIC SIGNAL MOUNTING ASSEMBLY (TYPE VII)	EACH	2	–	–	–	–	–	–	–	–
7330400	TRAFFIC SIGNAL MOUNTING ASSEMBLY (TYPE XI)	EACH	8	–	–	–	–	–	–	–	–
7330550	REMOVE AND SALVAGE TRAFFIC SIGNALS AND LOAD CENTER CABINETS	L.SUM	1	–	–	–	–	–	–	–	–
7340098	CONTROL CABINET	EACH	1	–	–	–	–	–	–	–	–
7340120	METER PEDESTAL CABINET	EACH	1	–	–	–	–	–	–	–	–
7350208	VIDEO DETECTION SYSTEM (5-CAMERA)	L. SUM	1	–	–	–	–	–	–	–	–
7350551	OPTICOM PRE-EMPTION UNIT	EACH	4	–	–	–	–	–	–	–	–
7360030	LUMINAIRE (HORIZONTAL MOUNT) (HPS 250 WATT)	EACH	27	–	–	–	–	–	–	–	–
7370450	MISCELLANEOUS ELECTRICAL	L.SUM	1	–	–	–	–	–	–	–	–
7370455	MISCELLANEOUS ELECTRICAL (AS-BUILTS)	EACH	1	–	–	–	–	–	–	–	–
7370705	CCTV FIELD EQUIPMENT	L.SUM	1	–	–	–	–	–	–	–	–
8070011	LANDSCAPING ESTABLISHMENT (	MONTHS	3	–	–	–	–	–	–	–	
8080190	RELOCATE AIR RELEASE VALVE	L.SUM	1	–	1	–	–	–	–	–	–
8080646	RESET FRAME AND COVER FOR VALVE BOX (PER PEORIA STD DET PE-270)	EACH	4	–	1	1	–	–	–	2	–
8080655	RELOCATE FIRE HYDRANT	EACH	5	–	2	1	–	–	1	1	–
8081003	WATER MAIN (REALIGNMENT) (	EACH	1	–	–	–	–	–	–	1	–
8101012	EROSION CONTROL (SILT FENCE)	L.FT.	3250	372	1136	1155	587	–	–	–	–
8101017	EROSION CONTROL (INLET PROTECTION, TYPE C)	EACH	5	5	–	–	–	–	–	–	–
9010001	MOBILIZATION	L.SUM	1	1	–	–	–	–	–	–	–
9080101	CONCRETE CURB AND GUTTER, TYPE A (MAG DET. 220)	L.FT.	3565	405	605	430	218	548	638	632	89
9080104	CONCRETE CURB AND GUTTER, TYPE D (MAG DET. 220)	L.FT.	46	–	–	–	–	–	–	20	26
9080108	CONCRETE SINGLE CURB (MAG DET. 222)(TYPE A) (H=7")	L.FT.	2024	136	719	137	–	105	623	304	–
9080241	CONCRETE SIDEWALK (MAG DET. 230 & 231)	SQ.FT.	17749	1613	3202	3314	1303	1815	3573	2440	489
9080296	CONCRETE SIDEWALK RAMP (MAG DET. 231)	EACH	7	–	7	–	–	–	–	–	–
9080305	CONCRETE DRIVEWAY (CITY OF PEORIA DET 253)	SQ.FT.	9979	–	2299	2775	659	1960	–	1732	554
9080350	CONCRETE DRIVEWAY (MAG DET. 250)	SQ.FT.	366	–	180	–	–	–	–	–	186
9080602	CONCRETE BUS SHELTER PAD (PHOENIX DET P1256-1)	SQ.FT.	855	–	–	855	–	–	–	–	–
9140113	WALL (BLOCK)	SQ.FT.	1674	532	609	533	–	–	–	–	–
9210016	MEDIAN PAVING (DECORATIVE PAVEMENT)	SQ.YD.	404	61	122	5	–	15	113	89	–
9240010	FORCE ACCOUNT WORK (REPAIR LANDSCAPING IRRIGATION SYSTEMS)	L.SUM	1	1	–	–	–	–	–	–	–
9240012	FORCE ACCOUNT WORK (GEOTEXTILE FABRIC)	L.SUM	1	1	–	–	–	–	–	–	–
9240015	FORCE ACCOUNT WORK (PROVIDE ELECTRICAL SERVICE)	L.SUM	1	1	–	–	–	–	–	–	–
9240047	MISCELLANEOUS WORK (ABANDON PIPE AND BACKFILL WITH SLURRY)	CU.YD.	262	–	241	–	–	–	21	–	–
9240050	MISCELLANEOUS WORK (RELOCATE METERS, VALVES, BOXES & BACKFLOW PREV.)	L.SUM	2	–	–	–	–	–	–	–	–
9240051	MISCELLANEOUS WORK (RELOCATE FIRE DEPT. CONNECTION PIPE)	L.SUM	1	–	–	–	–	–	–	–	–
9240058	MISCELLANEOUS WORK (WALL ENCLOSURE)	L.SUM	1	–	–	–	–	–	–	–	–
9240060	MISCELLANEOUS WORK (RELOCATE FRY'S PARKING LOT LIGHT ASSEMBLY)	L.SUM	1	–	–	–	–	–	–	–	–
9240120	MISCELLANEOUS WORK (RUGGEDCOM RS900G)	EACH	1	–	–	–	–	–	–	–	–
9240121	MISCELLANEOUS WORK (IMPATH ENCODER)	EACH	1	–	–	–	–	–	–	–	–
9240170	CONTRACTOR QUALITY CONTROL	L.SUM	1	–	–	–	–	–	–	–	–
9250001	CONSTRUCTION SURVEYING AND LAYOUT	L.SUM	1	–	–	–	–	–	–	–	–

REDUCED SIZE
DO NOT SCALE

CALL TWO WORKING DAYS BEFORE YOU DIG
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1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

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ADOT TRACS NO. 000 MA PEO SS 60301C
CITY OF PEORIA PROJECT NO. P-0315

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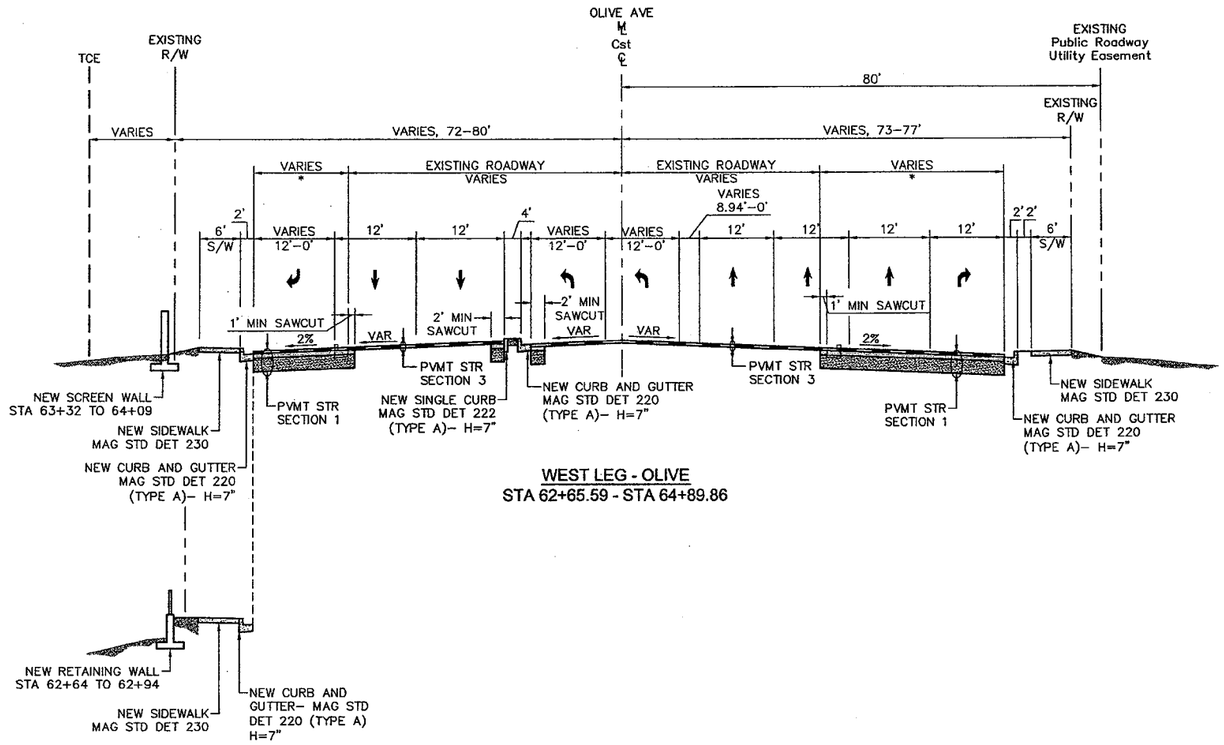
7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

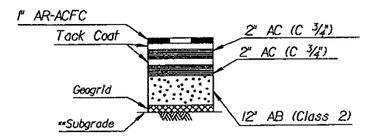
91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
QUANTITIES SHEET

Registered Professional Engineer (Civil)
CERTIFICATE NO. 31673
RAJESH S. CHRISTIAN
Date Signed 12-8-09
ARIZONA, U.S.A.
Expires 09/30/2010

DESIGNED BY: LJA
DRAWN BY: LJA/TEM
SCALE:
HORIZONTAL= N/A
VERTICAL= N/A
SHEET QS-02
SHEET 7 OF 104
DATE 11/2009
W.O.

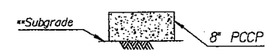


WEST LEG - OLIVE
STA 62+65.59 - STA 64+89.86

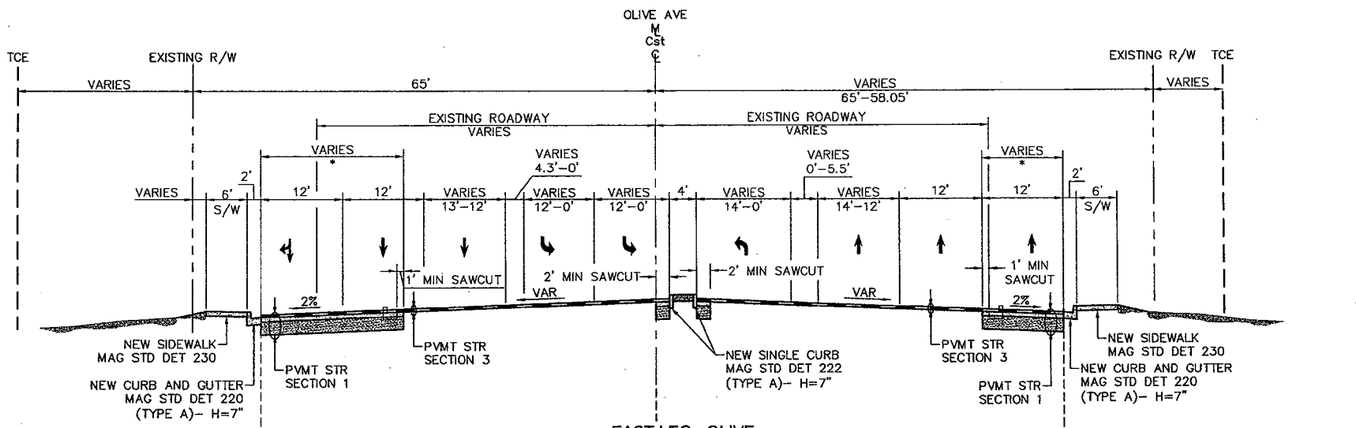


TOTAL THICKNESS- 17"
PAVEMENT STRUCTURAL SECTION 1
91ST AVENUE WIDENING
OLIVE AVENUE WIDENING
NTS

** SCARIFY & RECOMPACT 6" BELOW SUBGRADE AS PER SPECIAL PROVISIONS

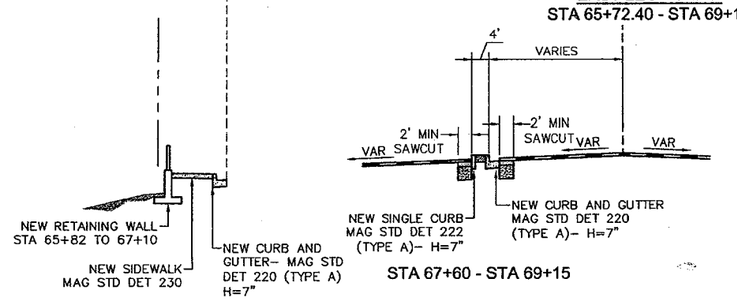


TOTAL THICKNESS- 8"
PAVEMENT STRUCTURAL SECTION 2
BUS BAY
NTS

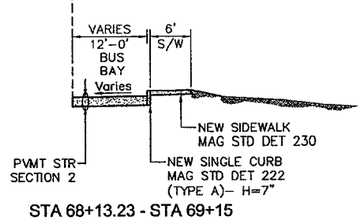


EAST LEG - OLIVE
STA 65+72.40 - STA 69+15

TOTAL THICKNESS- 1"
PAVEMENT STRUCTURAL SECTION 3
91st AVENUE RESURFACE
OLIVE AVENUE RESURFACE
NTS



STA 67+60 - STA 69+15



STA 68+13.23 - STA 69+15

* NEW PAVEMENT WIDTH VARIES AT DIFFERENT RATES. SEE GEOMETRIC AND ROADWAY PLAN SHEETS FOR ACCURATE CONSTRUCTION INFORMATION.

REDUCED SIZE
DO NOT SCALE

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CITY OF PEORIA PROJECT NO. P-0315

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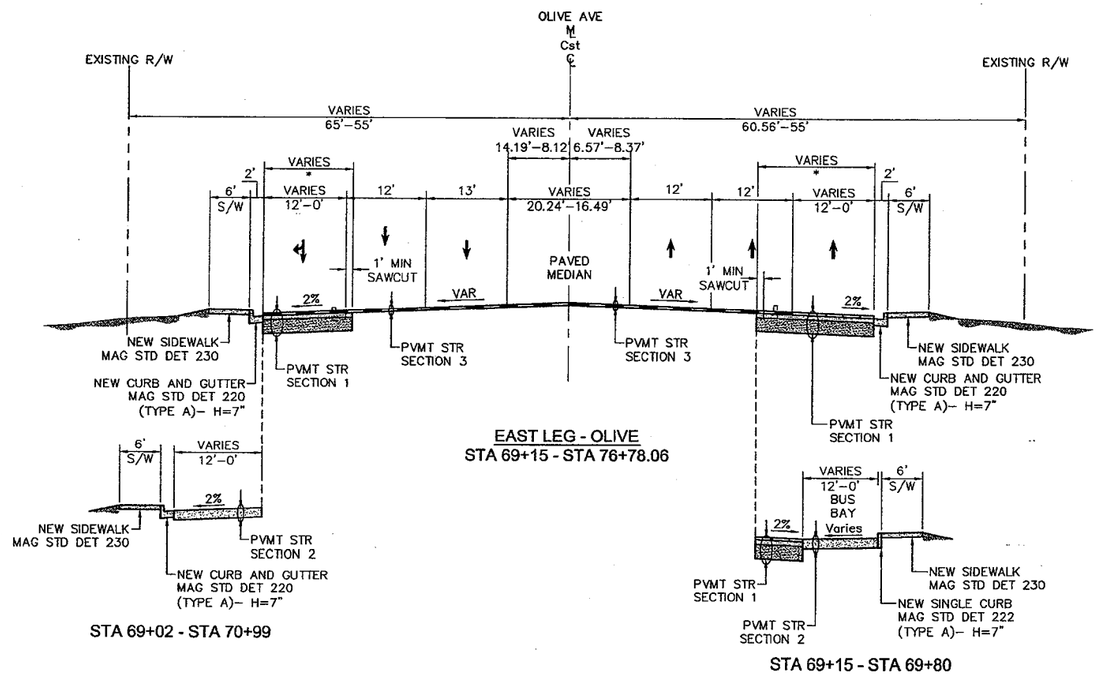
7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS
TYPICAL SECTIONS

31673 RAJESH S. CHRISTIAN ARIZONA, U.S.A. Expires 09/30/2012

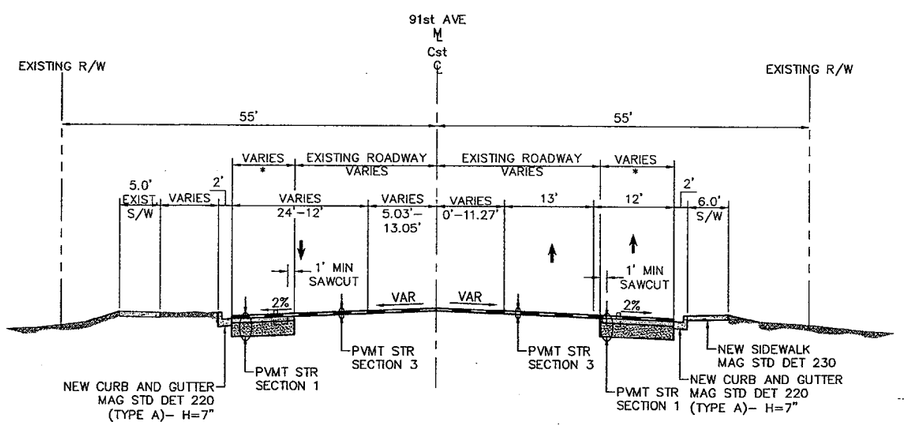
DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= NTS VERTICAL= NTS	
SHEET	TX-01
SHEET	8 OF 104
DATE	11/2009
W.O.	



EAST LEG - OLIVE
STA 69+15 - STA 76+78.06

STA 69+02 - STA 70+99

STA 69+15 - STA 69+80



SOUTH LEG - 91st AVENUE
STA 45+76.12 - STA 48+56

* NEW PAVEMENT WIDTH VARIES AT DIFFERENT RATES. SEE GEOMETRIC AND ROADWAY PLAN SHEETS FOR ACCURATE CONSTRUCTION INFORMATION.

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SS 60301C

CITY OF PEORIA
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Phoenix, Arizona 85020 (602) 944-5500

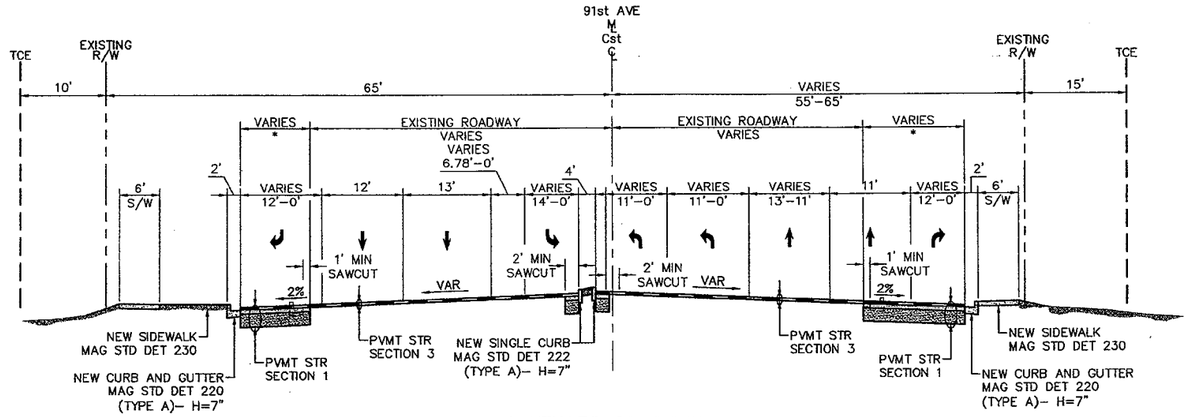
91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS TYPICAL SECTIONS

31673
RAJESH S. CHRISTIAN
ARIZONA, U.S.A.
Expires 09/30/2012

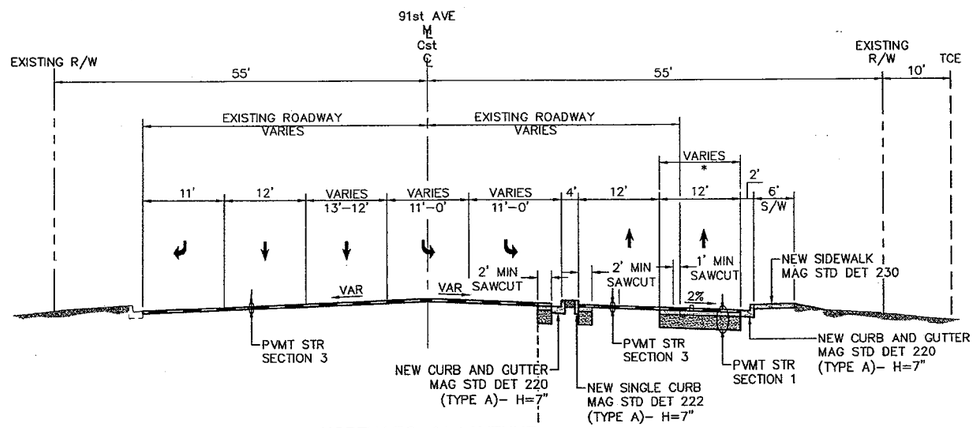
DESIGNED BY: LJA
DRAWN BY: LJA/TEM
SCALE:
HORIZONTAL= NTS
VERTICAL= NTS
SHEET TX-02
SHEET 9 OF 104
DATE 11/2009
W.O.

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(NOTHING MUSCOPA COUNTY)

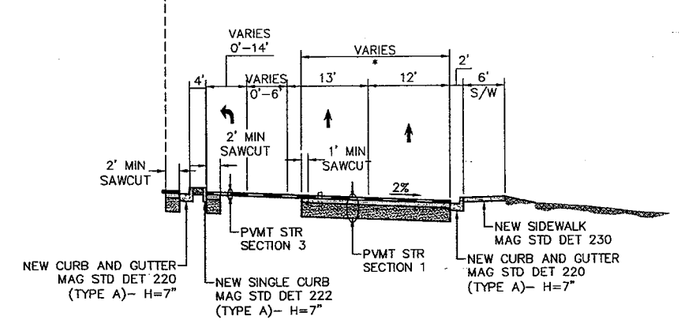
michael.mosley Nov 30, 2009 \\Kimley-horn\mt_phx\PHX_Roadway\091028010-91st_Olive\CADD\028010TX02.dwg



SOUTH LEG - 91st AVENUE
STA 48+56 - STA 52+10.94



NORTH LEG - 91st AVENUE
STA 53+68.14 - STA 54+81.21



STA 54+81.21 - STA 56+65.56

* NEW PAVEMENT WIDTH VARIES AT DIFFERENT RATES. SEE GEOMETRIC AND ROADWAY PLAN SHEETS FOR ACCURATE CONSTRUCTION INFORMATION.

REDUCED SIZE
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000 MA PEO
SS 60301C

CITY OF PEORIA
PROJECT NO. P-0315

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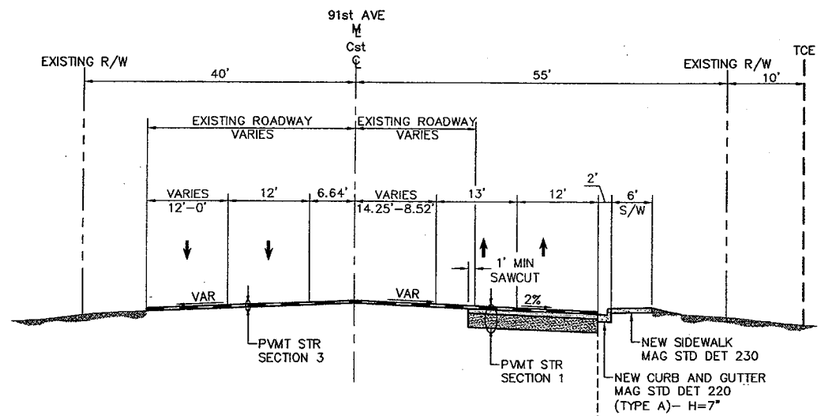
Phoenix, Arizona 85020 (602) 944-5500

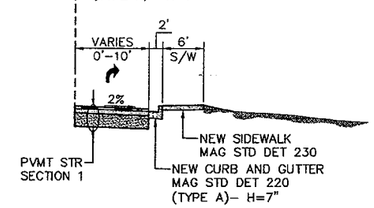
91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS TYPICAL SECTIONS

Registered Professional Engineer (Civil) CERTIFICATE NO. 31673 RAJESH S. CHRISTIAN Date Signed 12-8-09 ARIZONA, U.S.A. Expires 09/30/2010

DESIGNED BY:	LJA
DRAWN BY:	LJA/TEM
SCALE: HORIZONTAL= NTS VERTICAL= NTS	
SHEET	TX-03
SHEET	10 OF 104
DATE	11/2009
W.O.	



NORTH LEG - 91st AVENUE
STA 56+65.56 - STA 60+70.31



STA 57+46.17 - STA 59+26.22

REDUCED SIZE
DO NOT SCALE

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PROJECT NO. P-0315

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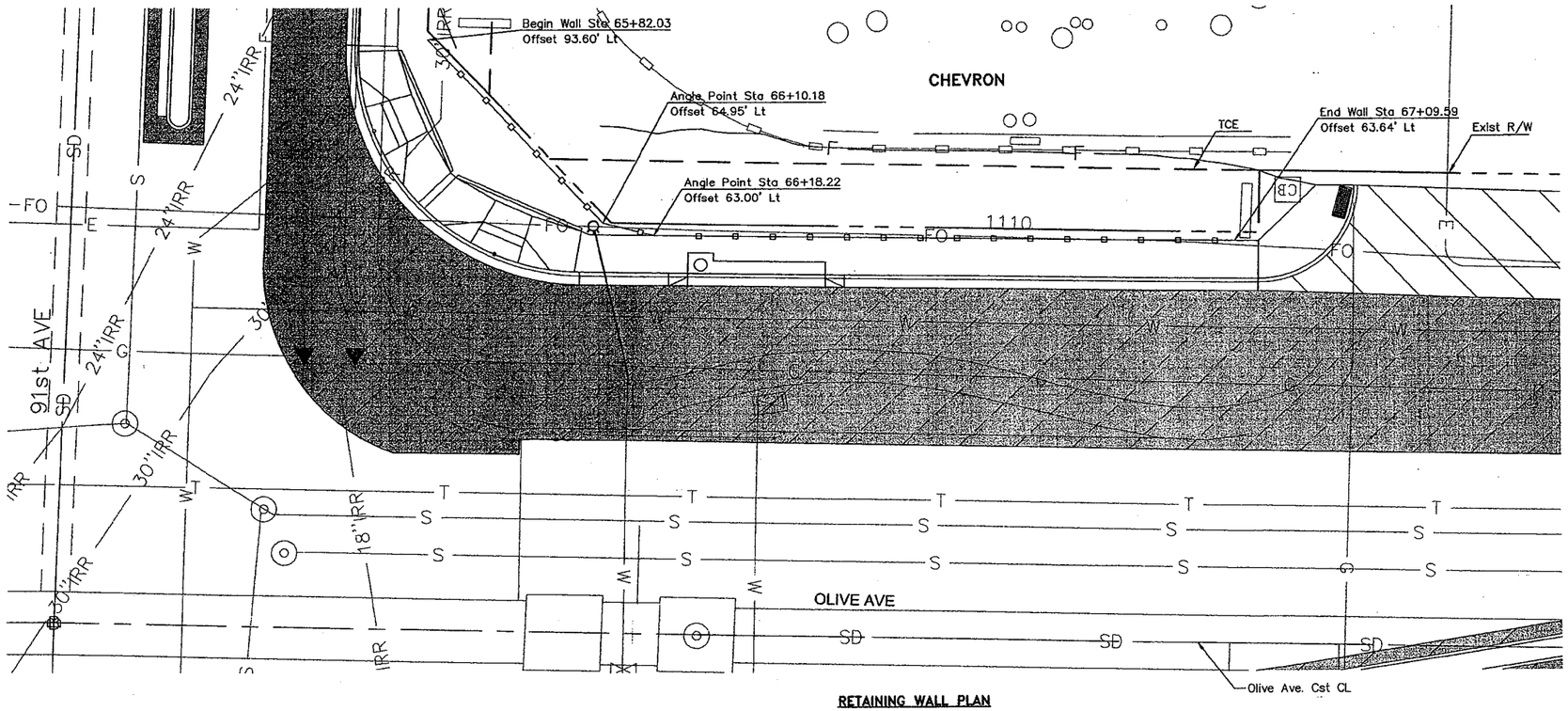
Phoenix, Arizona 85020 (602) 944-5500

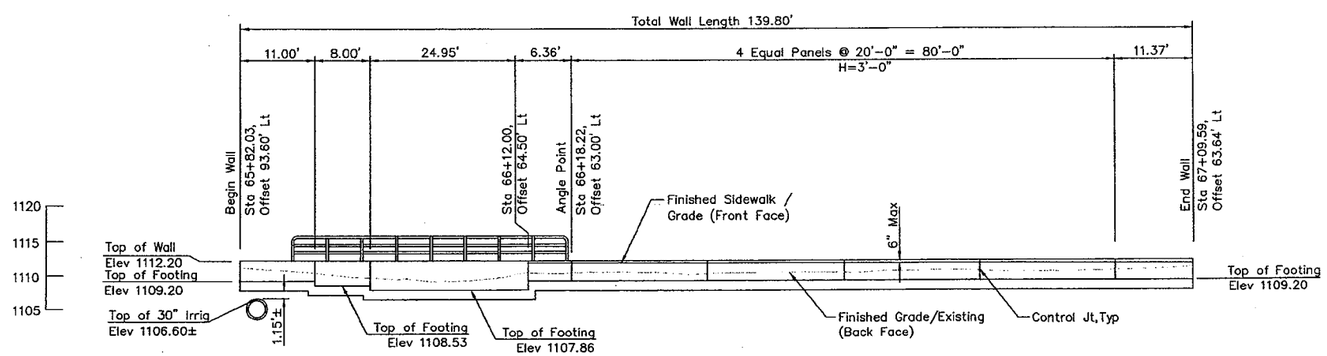
91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
TYPICAL SECTIONS

Registered Professional Engineer (Civil)
CERTIFICATE NO.
31673
RAJESH S. CHRISTIAN
Date Signed 12-2-09
ARIZONA, U.S.A.
Expires 09/30/2010

DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= N/A VERTICAL= N/A	
SHEET	TX-04
SHEET	11 OF 104
DATE	11/2009
W.O.	



RETAINING WALL PLAN



RETAINING WALL ELEVATION
ADOt B-18.50 Wall Type A, H=3' 8" Blocks
Wall Area = 464 Sq.Ft.
Scale: 1"=10'-0"

REDUCED SIZE
DO NOT SCALE

GRAPHIC SCALE
10 0 5 10 20
(IN FEET)

NOTES:

1. Metal railing shall be incidental to wall quantities. No Separate Pay Item is provided.
2. Masonry Block Type should Match the existing blocks in shape and color. The wall shall be painted to match the color of the existing wall or as directed by the engineer.
3. For Handrail Detail, See City of Peoria Standard Detail PE-119.
4. The handrail shall be painted per MAG Specifications Section 530. The color shall be per the discretion of City of Peoria.

CALL TWO WORKING DAYS BEFORE YOU DIG
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1-800-STAKE-IT
(MARICOPA COUNTY)

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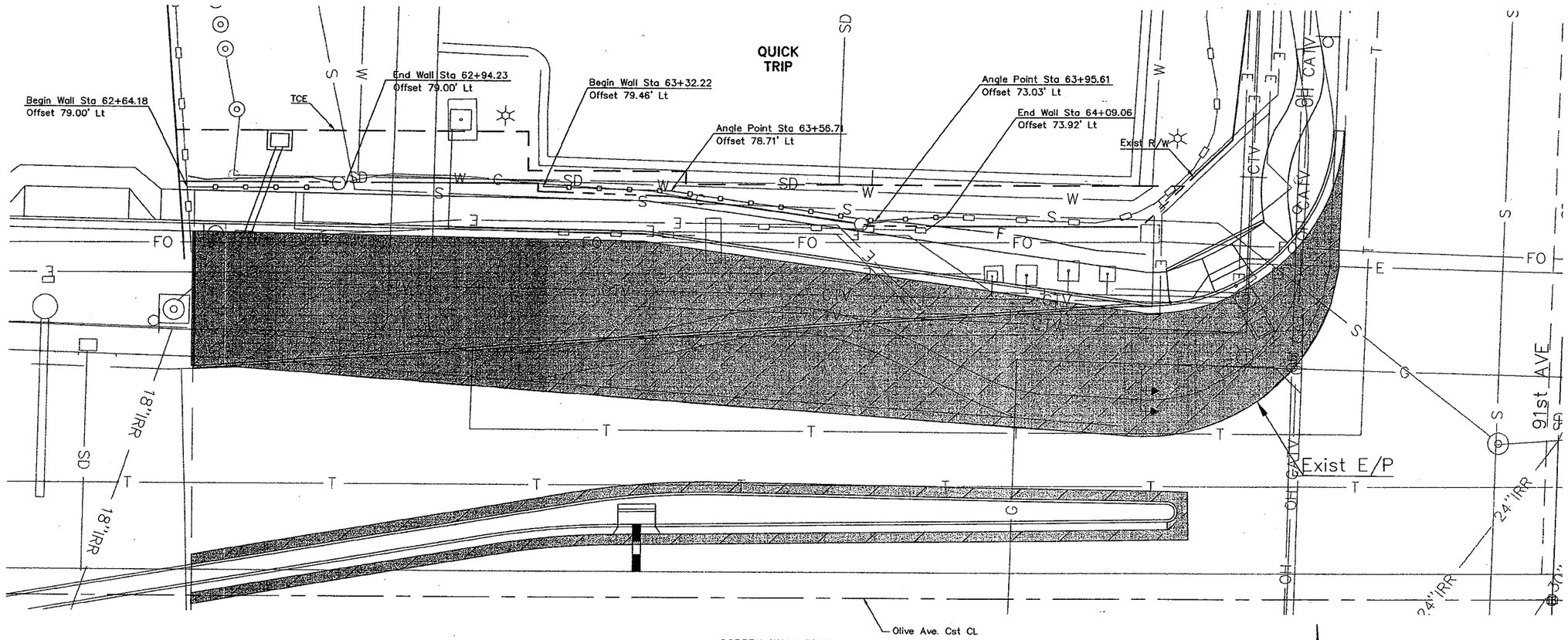
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS
RETAINING WALL PLAN & ELEVATION

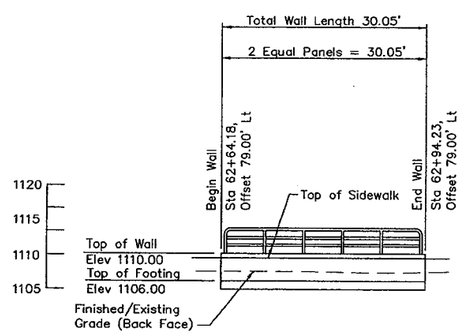
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
31673
RAJESH S. CHRISTIAN
Date Signed 12-3-09
ARIZONA, U.S.A.
Expires 06/30/2010

DESIGNED BY:	LJA
DRAWN BY:	LJA/TEM
SCALE:	HORIZONTAL= 10 VERTICAL= 10
SHEET	RT-01
SHEET	12 OF 104
DATE	11/2009
W.O.	

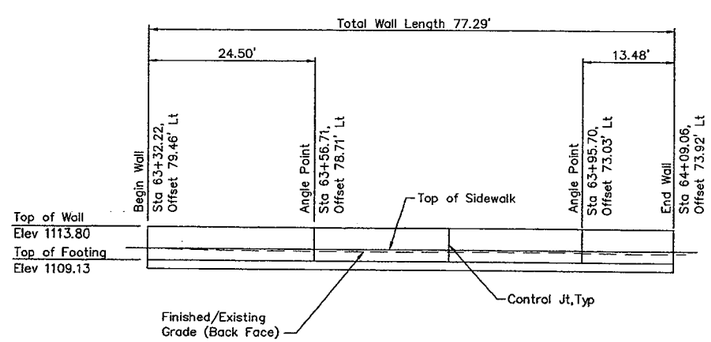


SCREEN WALL PLAN

GRAPHIC SCALE
10 0 5 10 20
(IN FEET)



RETAINING WALL ELEVATION
ADOT SD 8.02 Wall 8" Blocks
Wall Area = 121 Sq.Ft.
Scale: 1"=10'-0"



SCREEN WALL ELEVATION
ADOT SD 8.02 Wall 8" Blocks
Wall Area = 361 Sq.Ft.
Scale: 1"=10'-0"

REDUCED SIZE
DO NOT SCALE

NOTES:

1. The contractor shall match the height of existing wall.
2. Masonry Block Type should Match the existing blocks in shape and color. The wall shall be painted to match the color of the existing wall or as directed by the engineer.
3. Metal railing shall be incidental to wall quantities. No Separate Pay Item is provided.
4. For Handrail Detail, See City of Peoria Standard Detail PE-119.
5. The handrail shall be painted per MAG Specifications Section 530. The color shall be per the discretion of City of Peoria.

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000 MA PEO
SS 60301C
CITY OF PEORIA
PROJECT NO. P-0315

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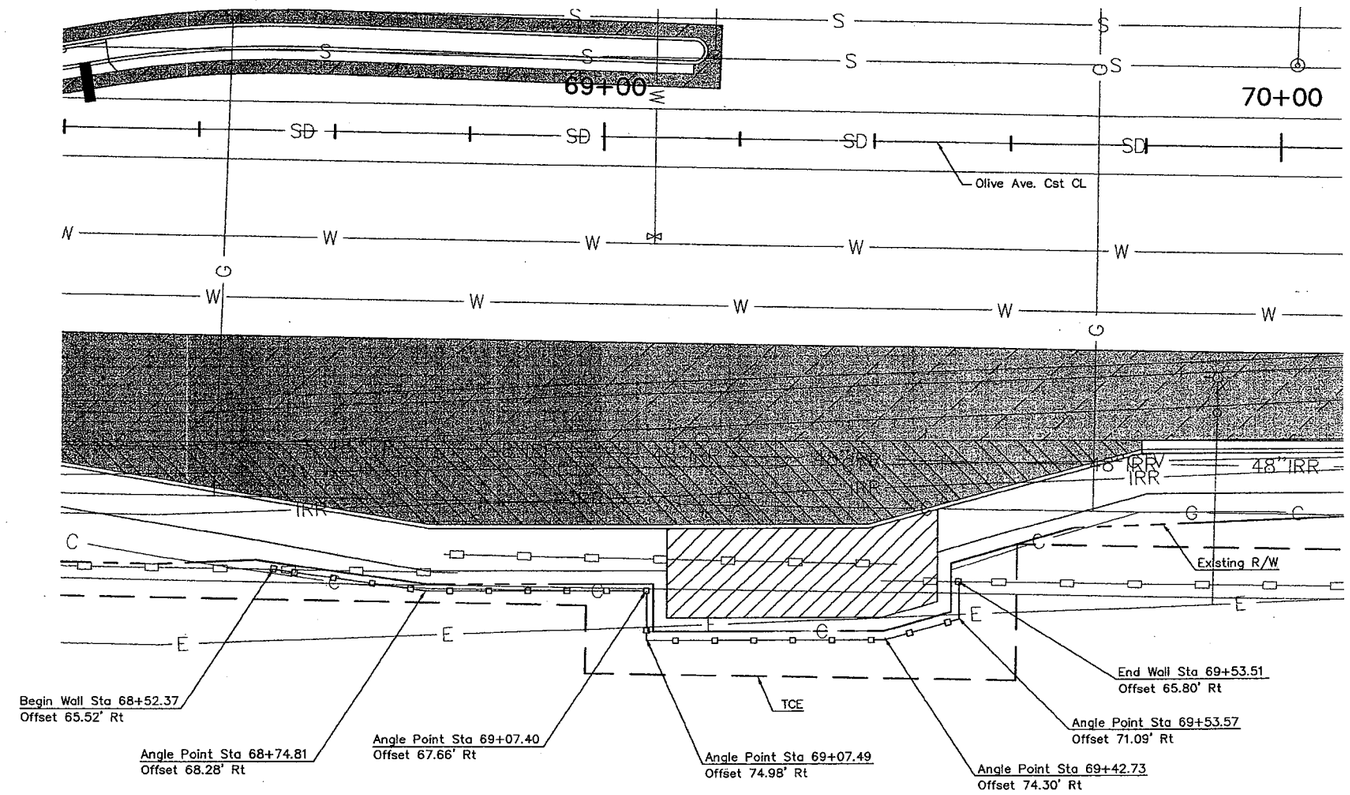
Phoenix, Arizona 85020 (602) 944-5500

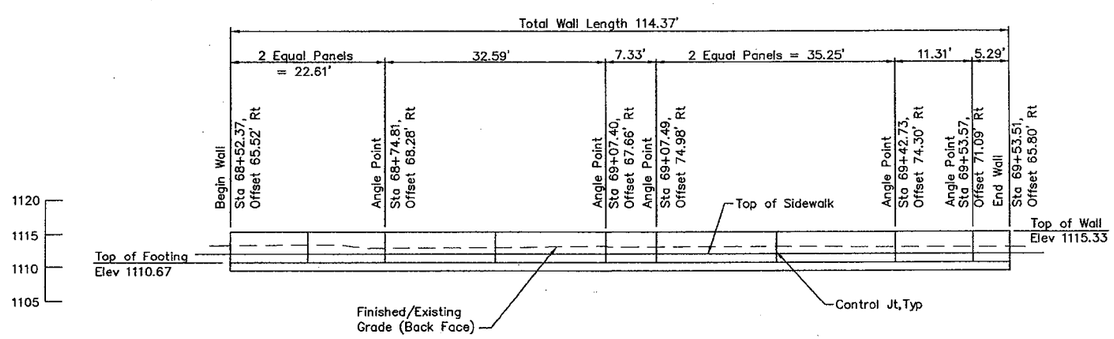
91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS RETAINING WALL PLAN & ELEVATION

Registered Professional Engineer (Civil)
CERTIFICATE NO. 31673
RAJESH S. CHRISTIAN
Date Signed 12-2-09
ARIZONA, U.S.A.
Expires 09/30/2010

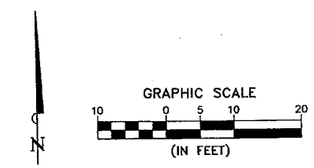
DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= 10 VERTICAL= 10	
SHEET	RT-02
SHEET	13 OF 104
DATE	11/2009
W.O.	



PRIVACY WALL PLAN



SCREEN WALL ELEVATION
ADOT SD 8.02 Wall 8" Blocks
Wall Area = 534 Sq. Ft.
Scale: 1"=10'-0"



NOTES:

1. The contractor shall match the height of existing wall.
2. Masonry Block Type should Match the existing blocks in shape and color. The wall shall be painted to match the color of the existing wall or as directed by the engineer.

REDUCED SIZE
DO NOT SCALE

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ADOT TRACS NO. 000 MA PEO SS 60301C
CITY OF PEORIA PROJECT NO. P-0315

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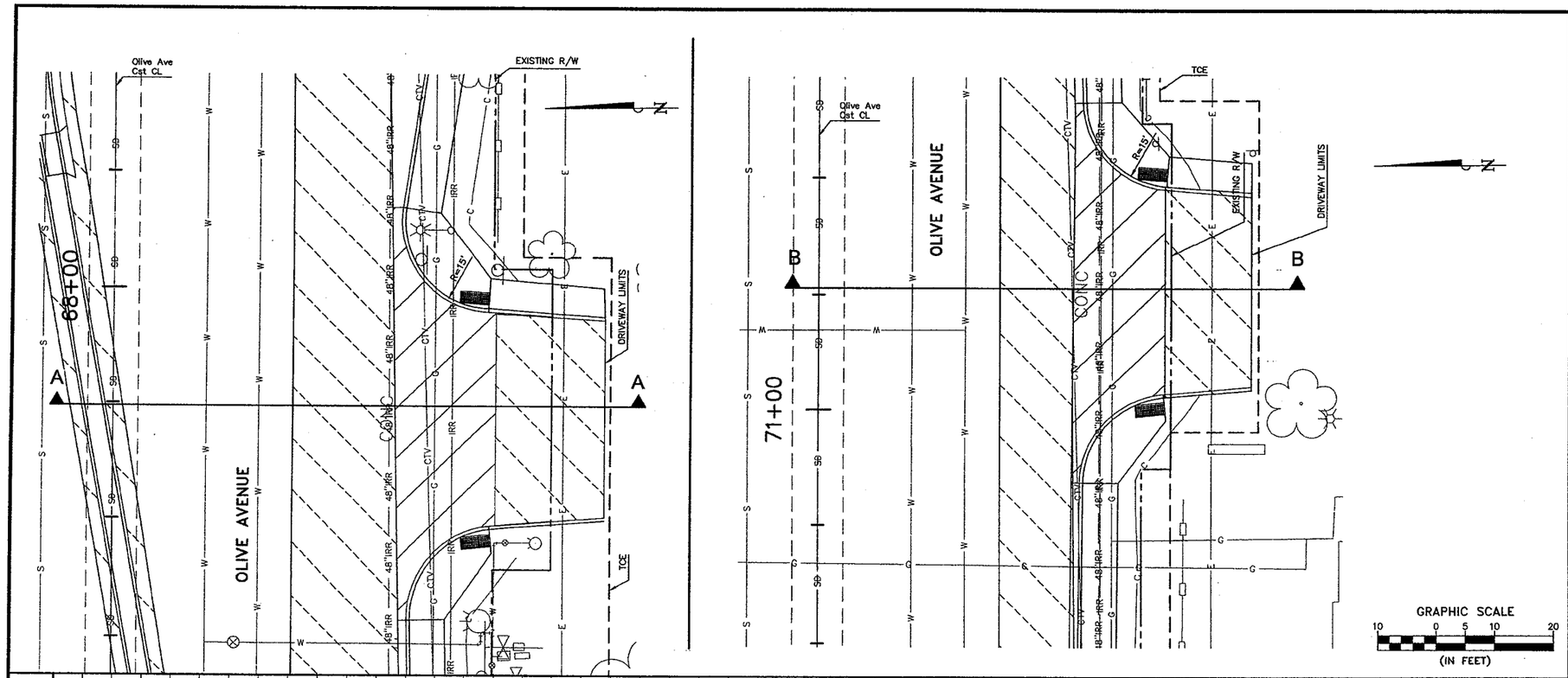
7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

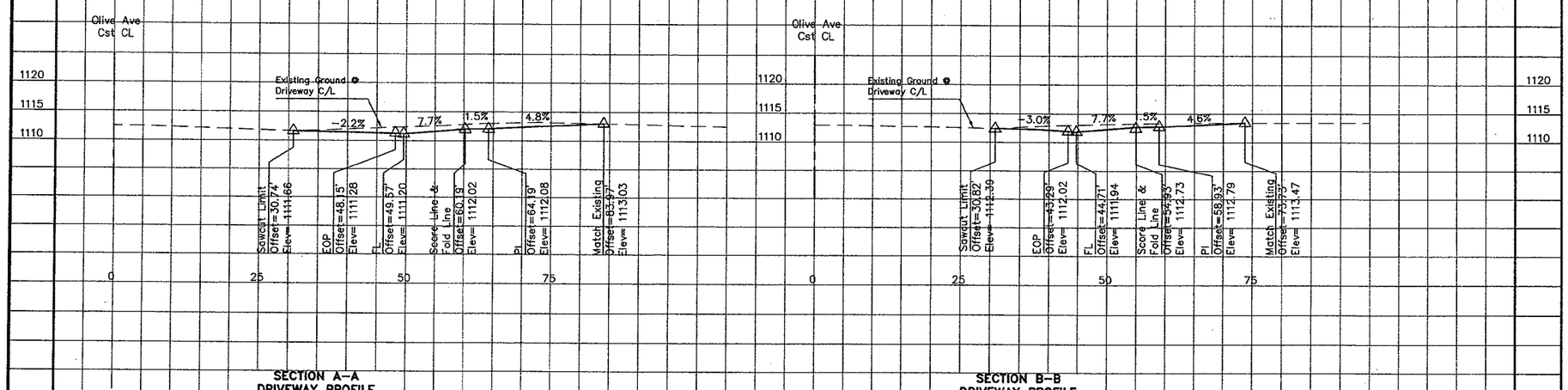
91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
RETAINING WALL PLAN & ELEVATION

Registered Professional Engineer
31673
RAJESH S. CHRISTIAN
ARIZONA, U.S.A.
Expires 09/30/2012

DESIGNED BY: LJA
DRAWN BY: LJA/TEM
SCALE: HORIZONTAL= 10 VERTICAL= 10
SHEET RT-03
SHEET 14 OF 104
DATE 11/2009
W.O.

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)





SECTION A-A
DRIVEWAY PROFILE
OLIVE AVENUE-SOUTH SIDE
STA 67+77.39

SECTION B-B
DRIVEWAY PROFILE
OLIVE AVENUE-SOUTH SIDE
STA 71+20.27

REDUCED SIZE
DO NOT SCALE

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ADOT TRACS NO.
000 MA PEO
SS60301C

CITY OF PEORIA
PROJECT NO. P-0315

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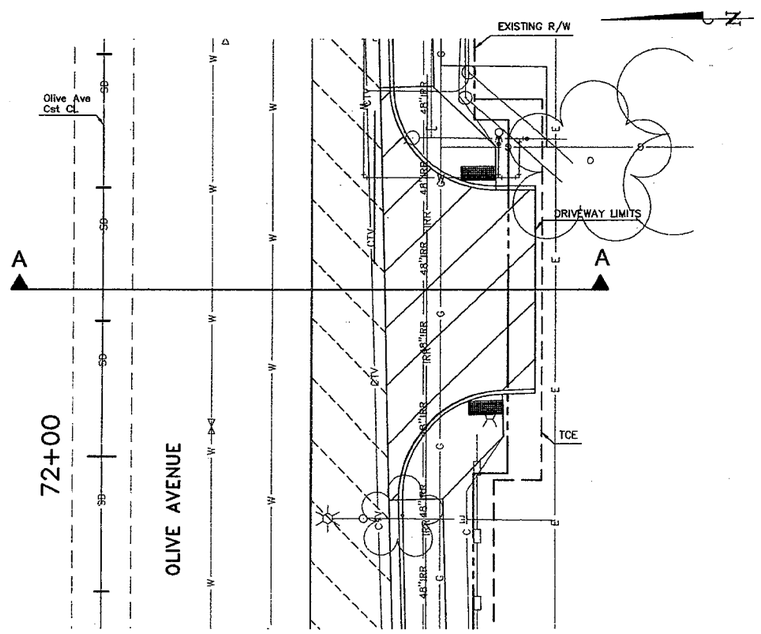
Phoenix, Arizona 85020 (602) 944-5500

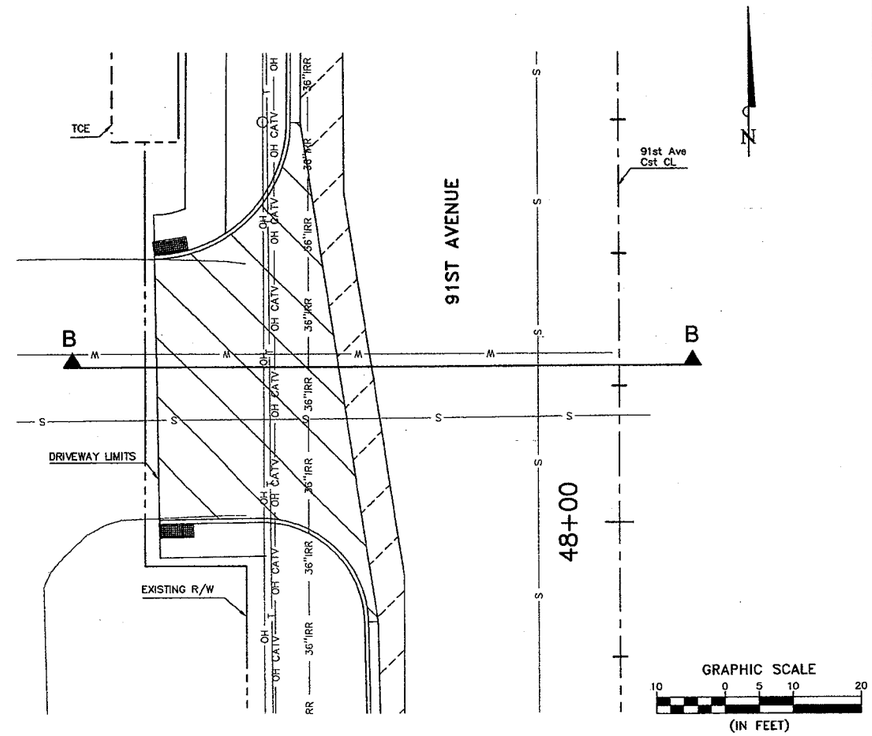
91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS DRIVEWAY PROFILE SHEET

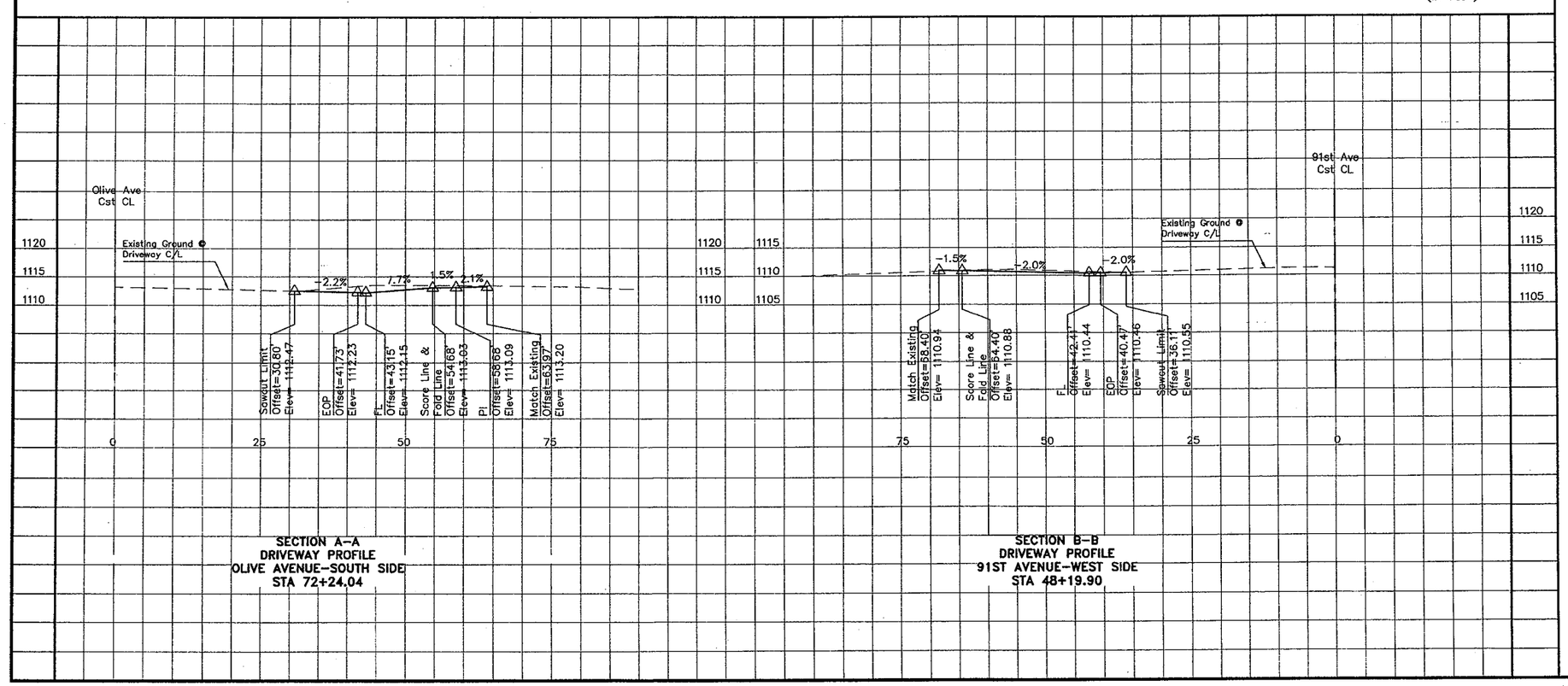
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
31673
RAJESH S. CHRISTIAN
Date Signed 12-3-09
ARIZONA, U.S.A.
Expires 09/30/2012

DESIGNED BY:	LJA
DRAWN BY:	LJA/TEM
SCALE:	HORIZONTAL= 10 VERTICAL= 10
SHEET	DW-01
SHEET	15 OF 104
DATE	11/2009
W.O.	

ADOT TRACS NO. 0000 MA PEO SS60301C CM-PEO-0(009)A







SECTION A-A
DRIVEWAY PROFILE
OLIVE AVENUE-SOUTH SIDE
STA 72+24.04

SECTION B-B
DRIVEWAY PROFILE
91ST AVENUE-WEST SIDE
STA 48+19.90

REDUCED SIZE
DO NOT SCALE

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

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CITY OF PEORIA PROJECT NO. P-0315

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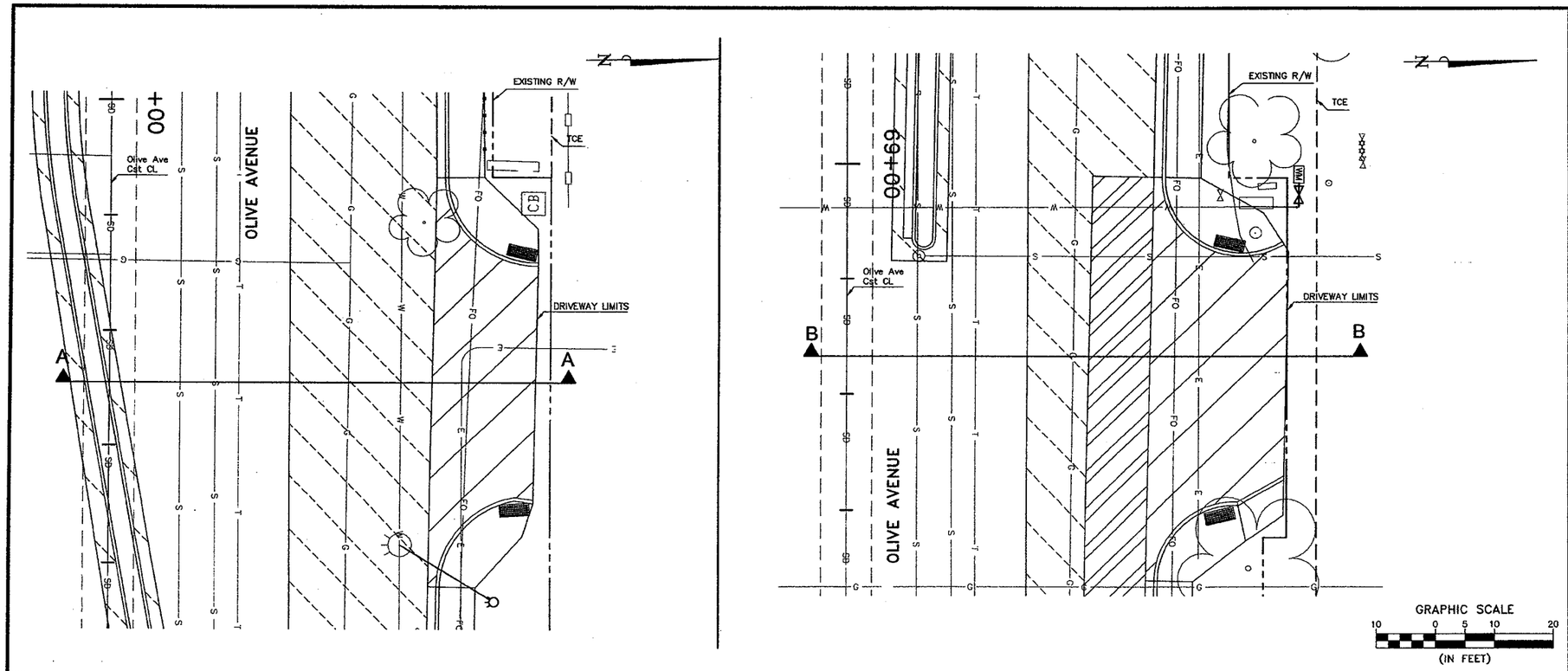
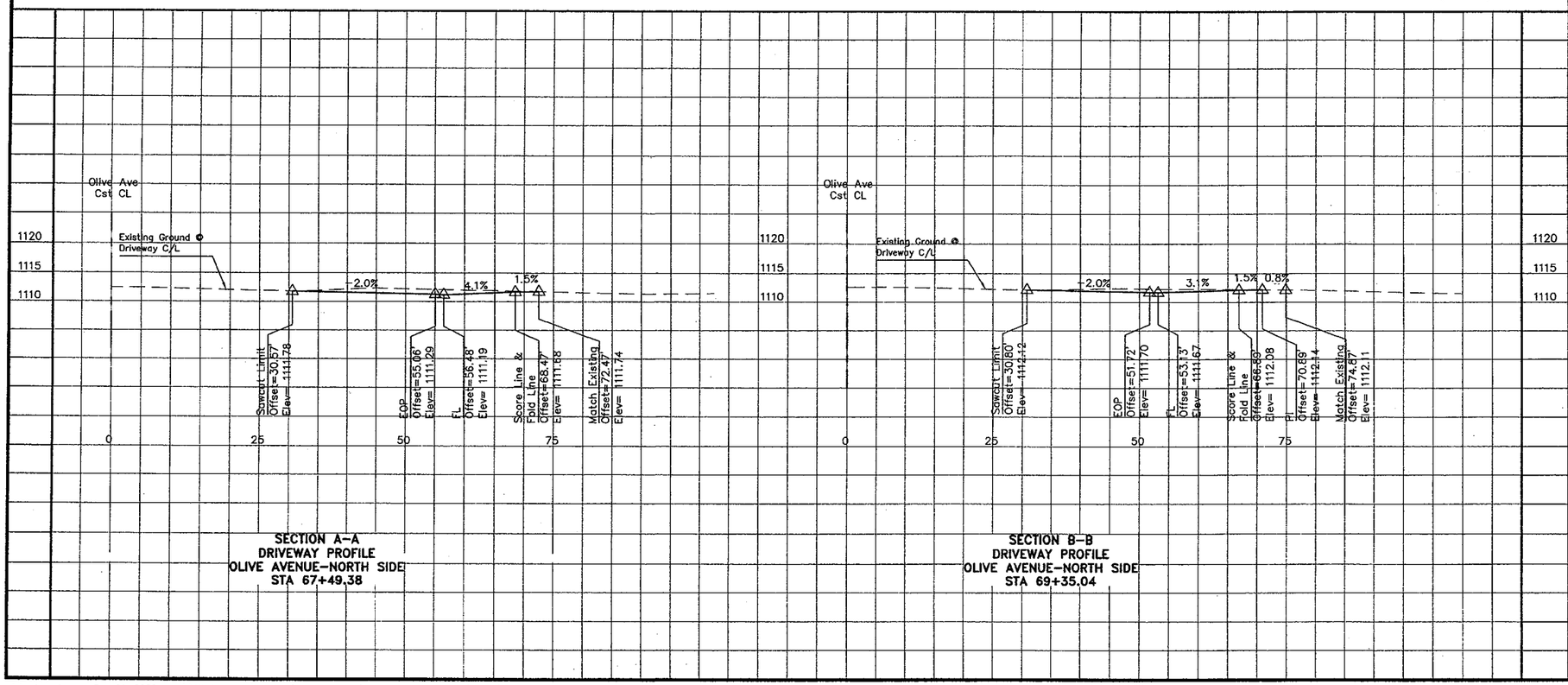
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
DRIVEWAY PROFILE SHEET

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO. 31673
RAJESH S. CHRISTIAN
Date Signed 12-2-09
ARIZONA, U.S.A.
Expires 09/30/2010

DESIGNED BY: LJA
DRAWN BY: LJA/TEM
SCALE: HORIZONTAL= 10 VERTICAL= 10
SHEET DW-02
SHEET 16 OF 104
DATE 11/2009
W.O.





SECTION A-A
DRIVEWAY PROFILE
OLIVE AVENUE-NORTH SIDE
STA 67+49.38

SECTION B-B
DRIVEWAY PROFILE
OLIVE AVENUE-NORTH SIDE
STA 69+35.04

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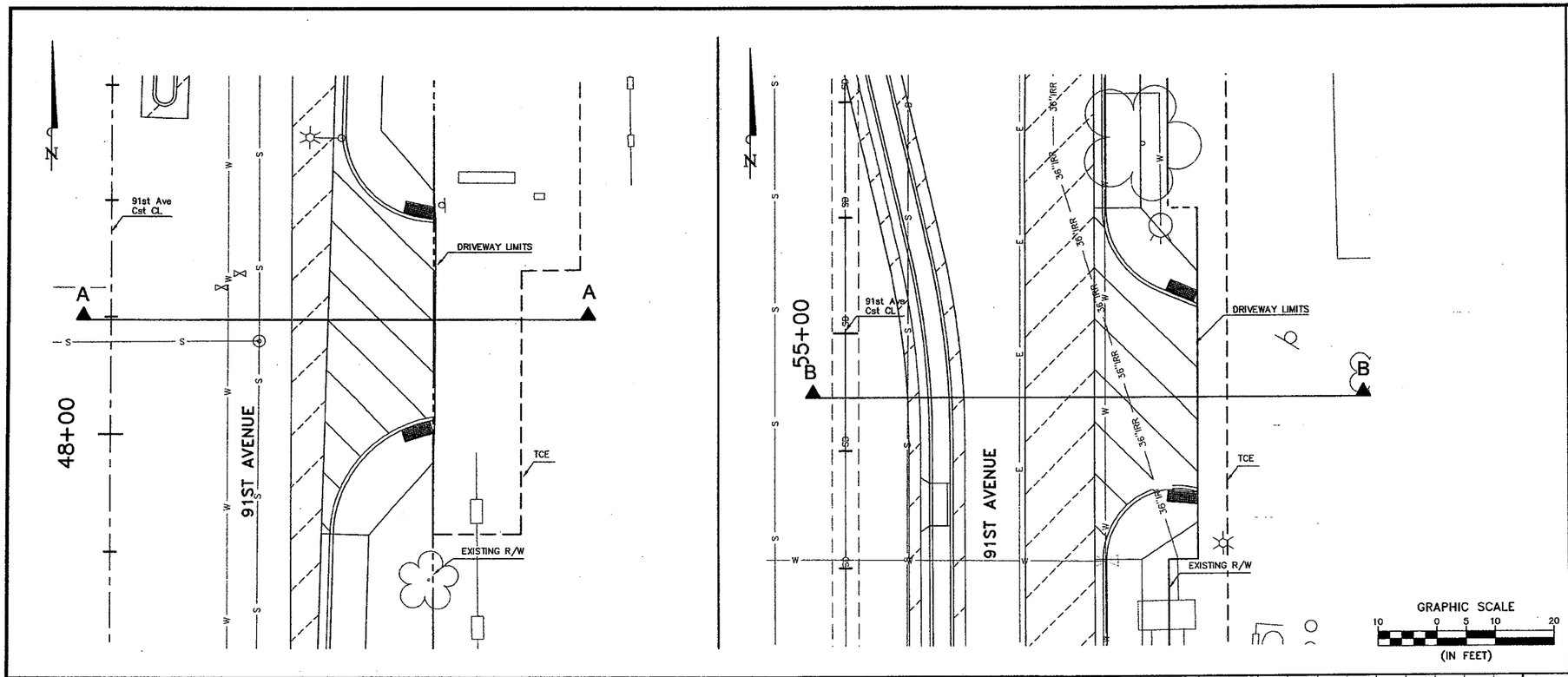
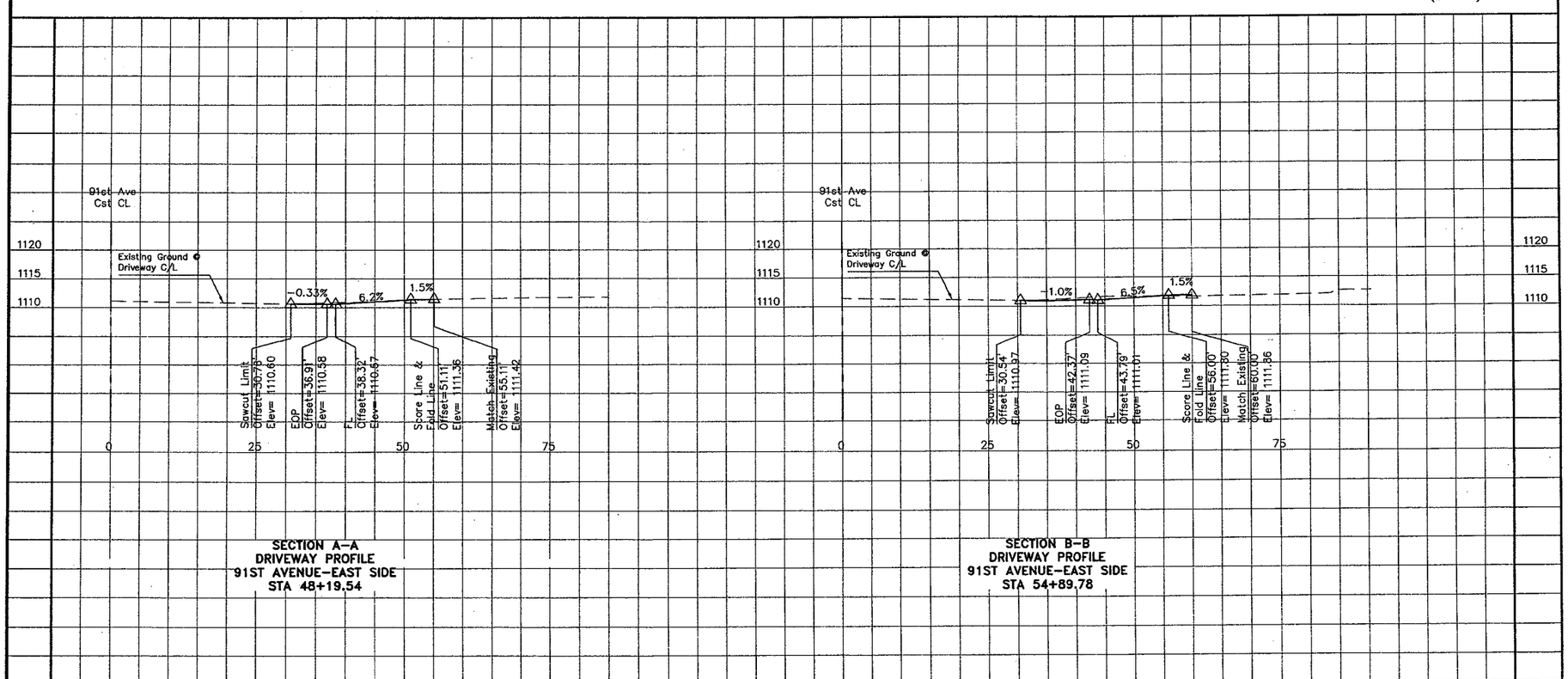
91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
DRIVEWAY PROFILE SHEET

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
31673
RAJESH S. CHRISTIAN
ARIZONA, U.S.A.
Date Signed 12-7-09
Expires 09/30/2010

DESIGNED BY:	LJA
DRAWN BY:	LJA/TEM
SCALE:	HORIZONTAL= 10 VERTICAL= 10
SHEET	DW-03
SHEET	17 OF 104
DATE	11/2009
W.O.	





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PROJECT NO. P-0315

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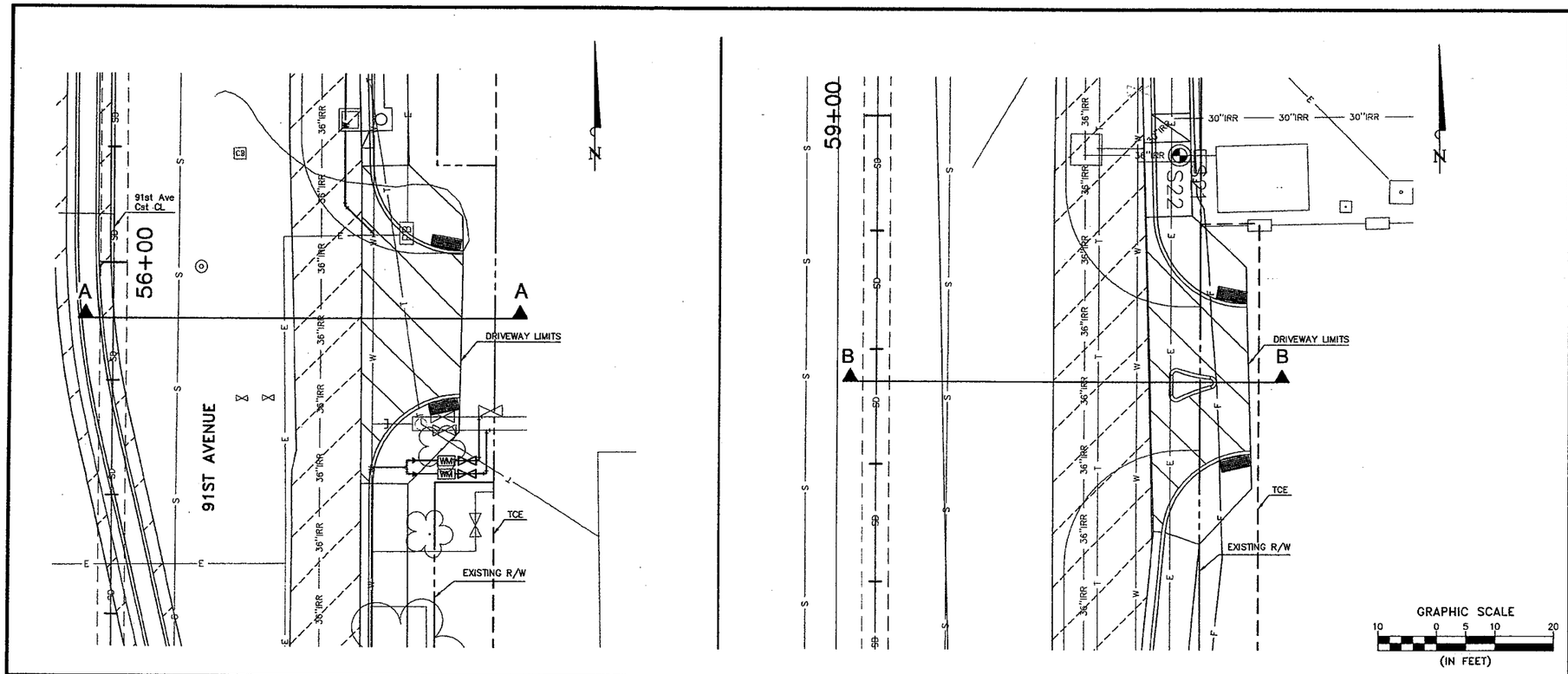
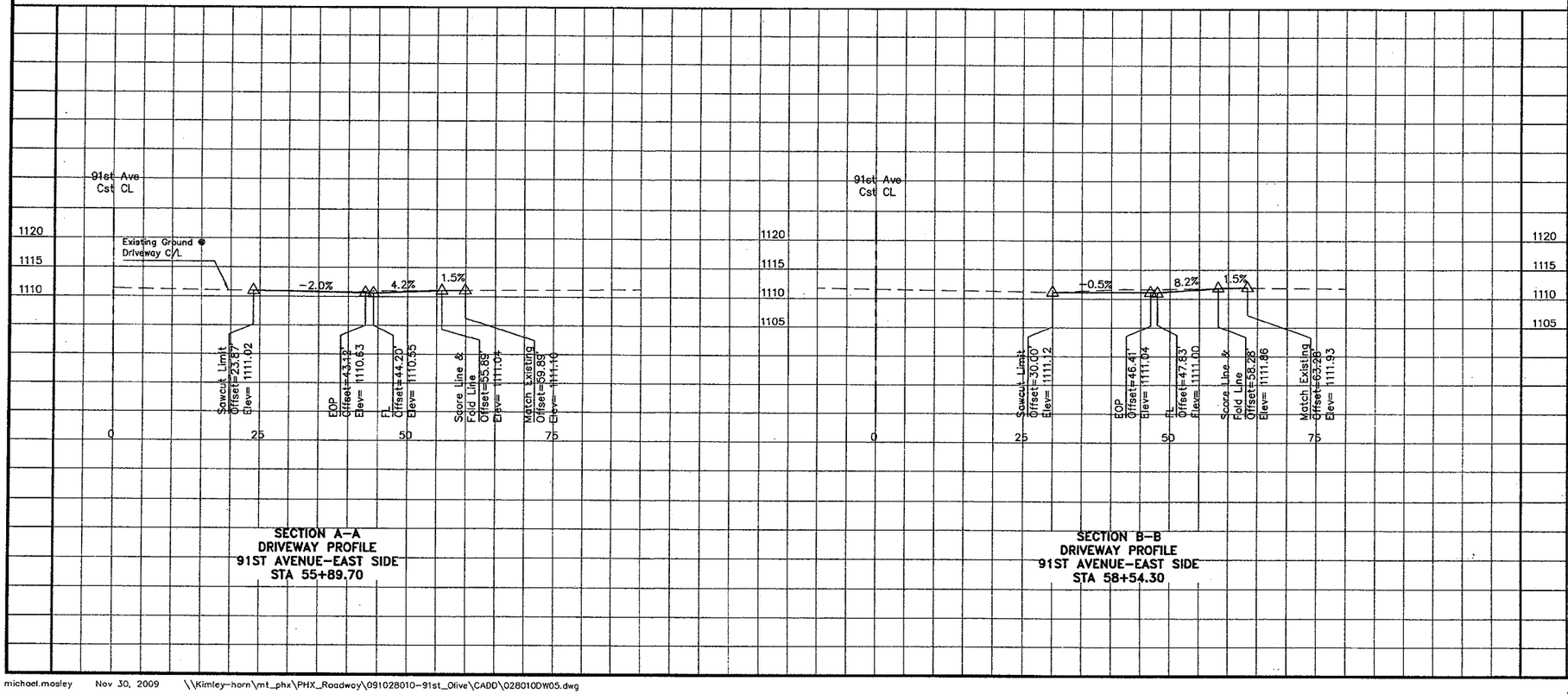
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS DRIVEWAY PROFILE SHEET

Registered Professional Engineer (Civil)
CERTIFICATE NO. 31673
RAJESH S. CHRISTIAN
Date Signed 12-2-09
ARIZONA, U.S.A.
Expires 09/30/2010

DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= 10 VERTICAL= 10	
SHEET	DW-04
SHEET	18 OF 104
DATE	11/2009
W.O.	





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(OUTSIDE MARICOPA COUNTY)

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ADOT TRACS NO.
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SS60301C

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PROJECT NO. P-0315

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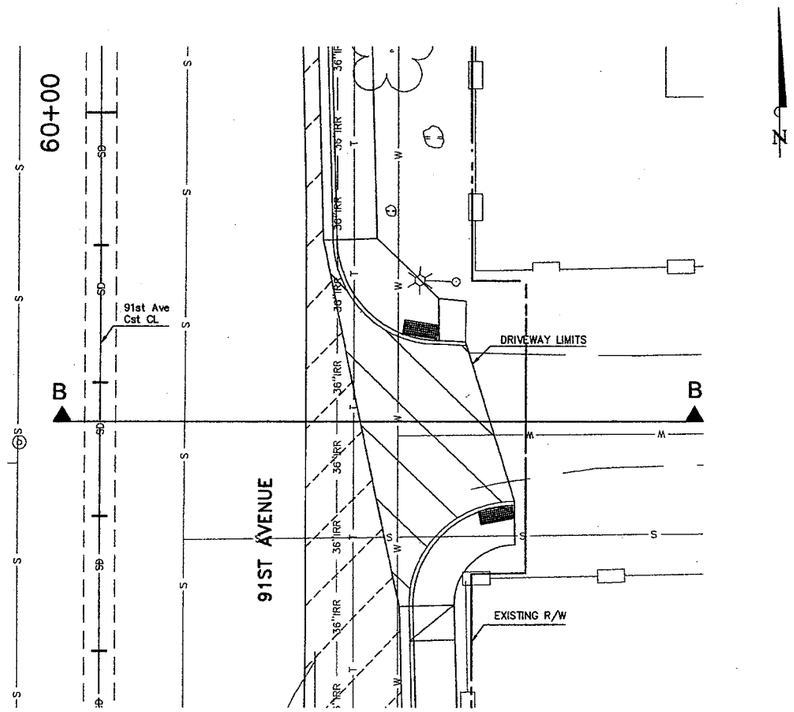
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS DRIVEWAY PROFILE SHEET

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
31673
RAJESH S. CHRISTIAN
Date Signed 12-2-09
ARIZONA, U.S.A.
Expires 09/30/2012

DESIGNED BY:	LJA
DRAWN BY:	LJA/TEM
SCALE:	HORIZONTAL= 10 VERTICAL= 10
SHEET	DW-05
SHEET	19 OF 104
DATE	11/2009
W.O.	



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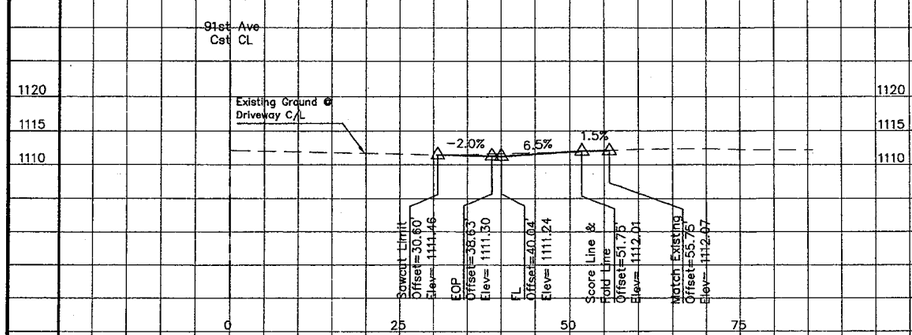
(IN FEET)



SECTION B-B
DRIVEWAY PROFILE
91ST AVENUE-EAST SIDE
STA 59+54.24

REDUCED SIZE
DO NOT SCALE

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(OUTSIDE MARICOPA COUNTY)

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SS60301C
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PROJECT NO. P-0315

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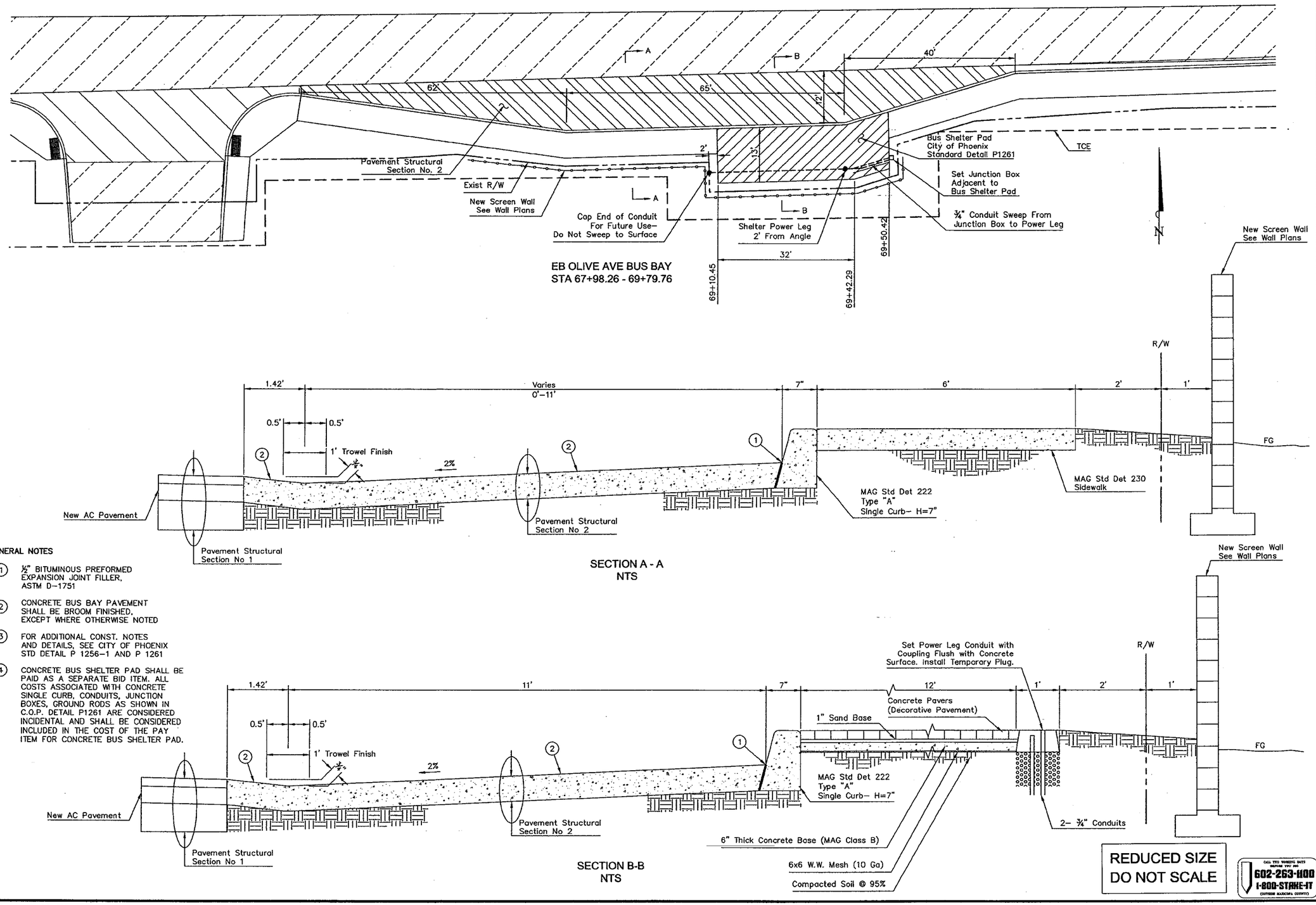
91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
DRIVEWAY PROFILE SHEET

Registered Professional Engineer (Civil)
CERTIFICATE NO. 31673
RAJESH S. CHRISTIAN
Date Signed 12-3-09
ARIZONA, U.S.A.
Expires 09/30/2010

DESIGNED BY:	LJA
DRAWN BY:	LJA/TEM
SCALE:	HORIZONTAL= 10 VERTICAL= 10
SHEET	DW-06
SHEET	20 OF 104
DATE	11/2009
W.O.	



GENERAL NOTES

1. ½" BITUMINOUS PREFORMED EXPANSION JOINT FILLER, ASTM D–1751
2. CONCRETE BUS BAY PAVEMENT SHALL BE BROOM FINISHED, EXCEPT WHERE OTHERWISE NOTED
3. FOR ADDITIONAL CONST. NOTES AND DETAILS, SEE CITY OF PHOENIX STD DETAIL P 1256–1 AND P 1261
4. CONCRETE BUS SHELTER PAD SHALL BE PAID AS A SEPARATE BID ITEM. ALL COSTS ASSOCIATED WITH CONCRETE SINGLE CURB, CONDUITS, JUNCTION BOXES, GROUND RODS AS SHOWN IN C.O.P. DETAIL P1261 ARE CONSIDERED INCIDENTAL AND SHALL BE CONSIDERED INCLUDED IN THE COST OF THE PAY ITEM FOR CONCRETE BUS SHELTER PAD.

REDUCED SIZE DO NOT SCALE

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1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

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CITY OF PEORIA PROJECT NO. P–0315

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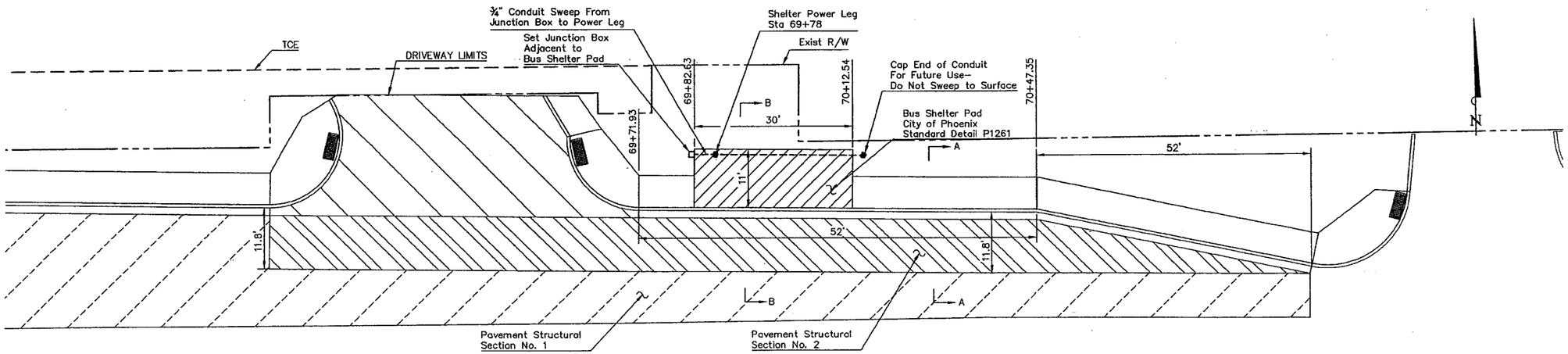
Phoenix, Arizona 85020 (602) 944–5500

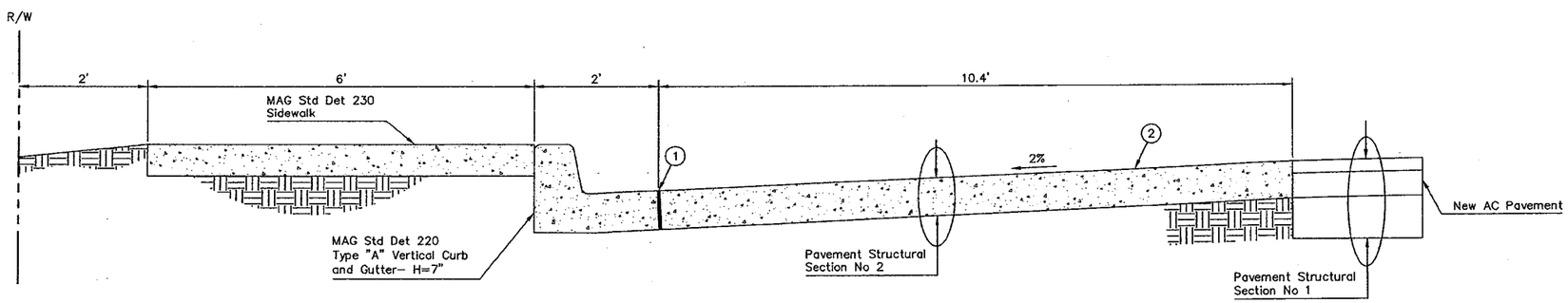
91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS
OLIVE AVE - EASTBOUND BUS BAY DETAIL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 31873 RAJESH S. CHRISTIAN Date Signed 12-3-09 ARIZONA, U.S.A. Expires 06/30/2010

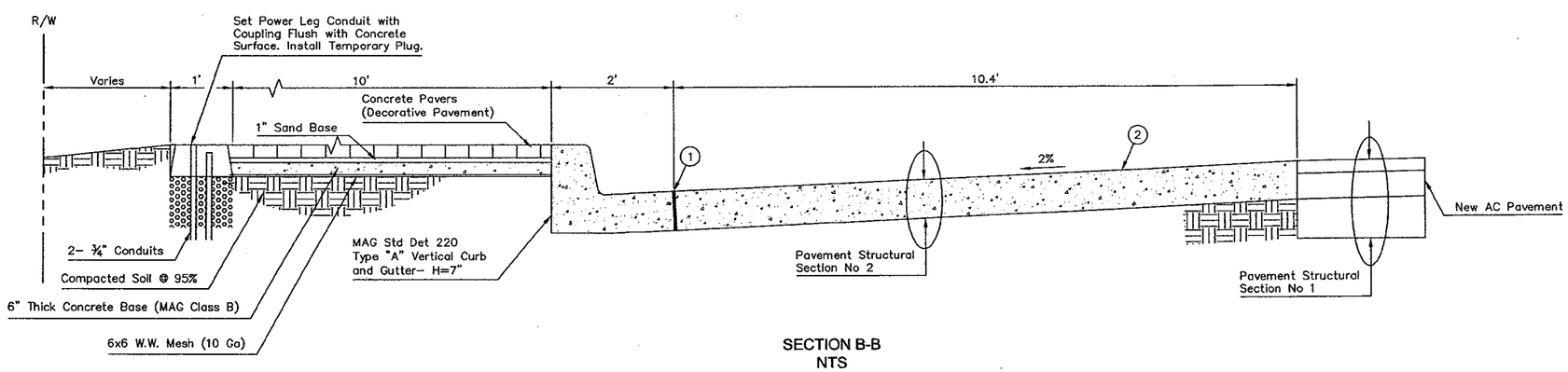
DESIGNED BY:	LJA
DRAWN BY:	LJA/TEM
SCALE: HORIZONTAL= 10 VERTICAL= 10	
SHEET	DT–01
SHEET	21 OF 104
DATE	11/2009
W.O.	



WB OLIVE AVE BUS BAY
STA 69+71.93 - 70+99.16



SECTION A - A
NTS



SECTION B-B
NTS

GENERAL NOTES

1. ½" BITUMINOUS PREFORMED EXPANSION JOINT FILLER, ASTM D–1751
2. CONCRETE BUS BAY PAVEMENT SHALL BE BROOM FINISHED, EXCEPT WHERE OTHERWISE NOTED
3. FOR ADDITIONAL CONST. NOTES AND DETAILS, SEE CITY OF PHOENIX STD DETAIL P 1256–1 AND P 1261
4. CONCRETE BUS SHELTER PAD SHALL BE PAID AS A SEPARATE BID ITEM. ALL COSTS ASSOCIATED WITH CONCRETE SINGLE CURB, CONDUITS, JUNCTION BOXES, GROUND RODS AS SHOWN IN C.O.P. DETAIL P1261 ARE CONSIDERED INCIDENTAL AND SHALL BE CONSIDERED INCLUDED IN THE COST OF THE PAY ITEM FOR CONCRETE BUS SHELTER PAD.

REDUCED SIZE
DO NOT SCALE

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(OUTSIDE MARICOPA COUNTY)

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ADOT TRACS NO. 000 MA PEO SS 60301C
CITY OF PEORIA PROJECT NO. P–0315

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Phoenix, Arizona 85020 (602) 944–5500

91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
OLIVE AVE - WESTBOUND BUS BAY DETAIL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 31673 RAJESH S. CHRISTIAN Date Signed 12-3-09 ARIZONA, U.S.A. Expires 09/30/2010

DESIGNED BY:	LJA
DRAWN BY:	LJA/TEM
SCALE: HORIZONTAL= 10 VERTICAL= 10	
SHEET	DT–02
SHEET	22 OF 104
DATE	11/2009
W.O.	

NOTE:
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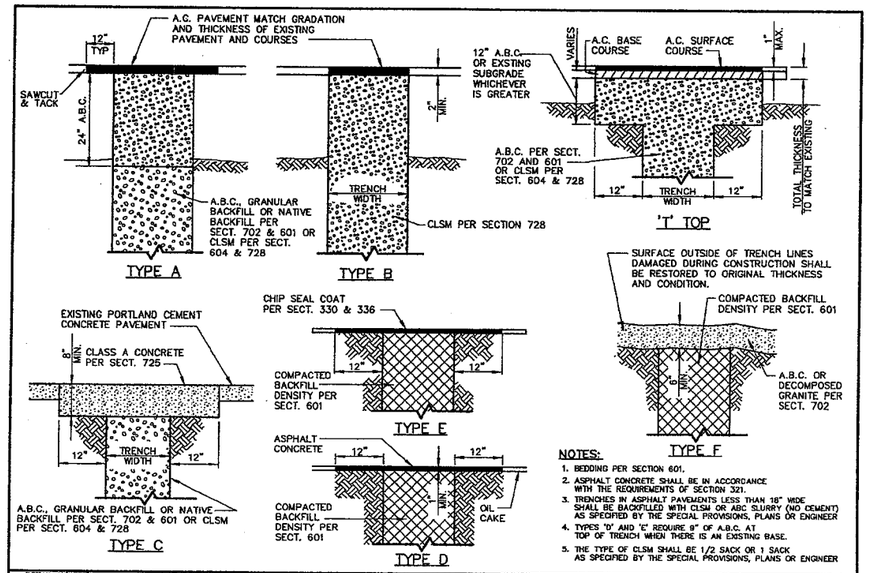
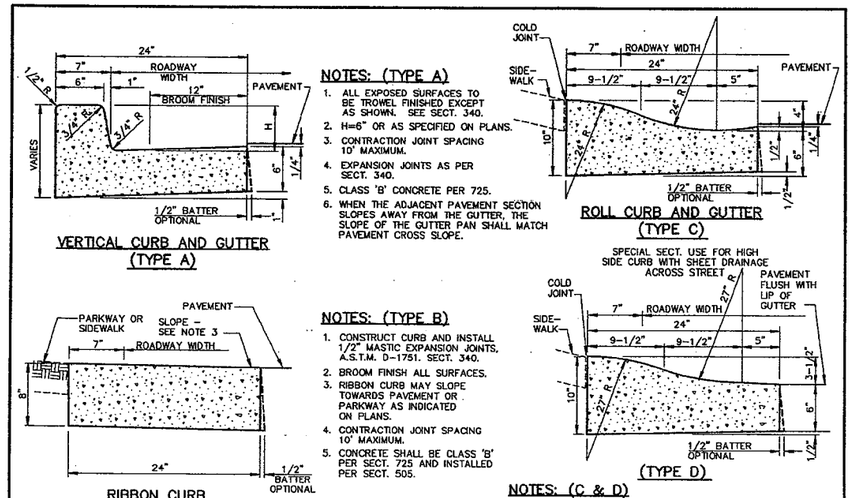


NOTES:

1. BEDDING PER SECTION 601.
2. ASPHALT CONCRETE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 321.
3. TRENCHES IN ASPHALT PAVEMENTS LESS THAN 18" WIDE SHALL BE BACKFILLED WITH CLSM OR ABC SLURRY (NO CEMENT) AS SPECIFIED BY THE SPECIAL PROVISIONS, PLANS OR ENGINEER
4. TYPES 'D' AND 'E' REQUIRE 8" OF A.B.C. AT TOP OF TRENCH WHEN THERE IS AN EXISTING BASE.
5. THE TYPE OF CLSM SHALL BE 1/2 SACK OR 1 SACK AS SPECIFIED BY THE SPECIAL PROVISIONS, PLANS OR ENGINEER

DETAIL NO.	MARICOPA ASSOCIATION of GOVERNMENTS	STANDARD DETAIL ENGLISH	BACKFILL, PAVEMENT AND SURFACE REPLACEMENT	REVISED	DETAIL NO.
200				01-03-2002	200



NOTES: (TYPE A)

1. ALL EXPOSED SURFACES TO BE TROWEL FINISHED EXCEPT AS SHOWN. SEE SECT. 340.
2. H=6" OR AS SPECIFIED ON PLANS.
3. CONTRACTION JOINT SPACING 10' MAXIMUM.
4. EXPANSION JOINTS AS PER SECT. 340.
5. CLASS 'B' CONCRETE PER 725.
6. WHEN THE ADJACENT PAVEMENT SECTION SLOPES AWAY FROM THE GUTTER, THE SLOPE OF THE GUTTER PAN SHALL MATCH PAVEMENT CROSS SLOPE.

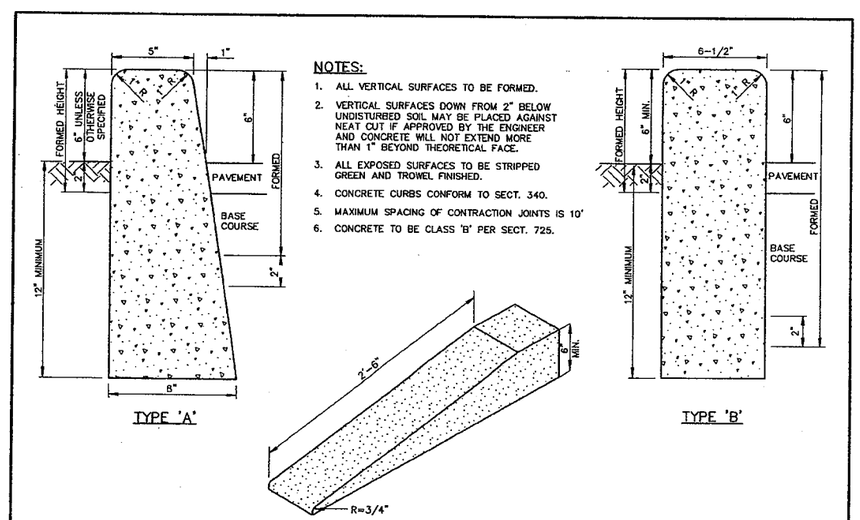
NOTES: (TYPE B)

1. CONSTRUCT CURB AND INSTALL 1/2" MASTIC EXPANSION JOINTS, A.S.T.M. D-1751. SECT. 340.
2. BROOM FINISH ALL SURFACES.
3. RIBBON CURB MAY SLOPE TOWARDS PAVEMENT OR PARKWAY AS INDICATED ON PLANS.
4. CONTRACTION JOINT SPACING 10' MAXIMUM.
5. CONCRETE SHALL BE CLASS 'B' PER SECT. 725 AND INSTALLED PER SECT. 505.

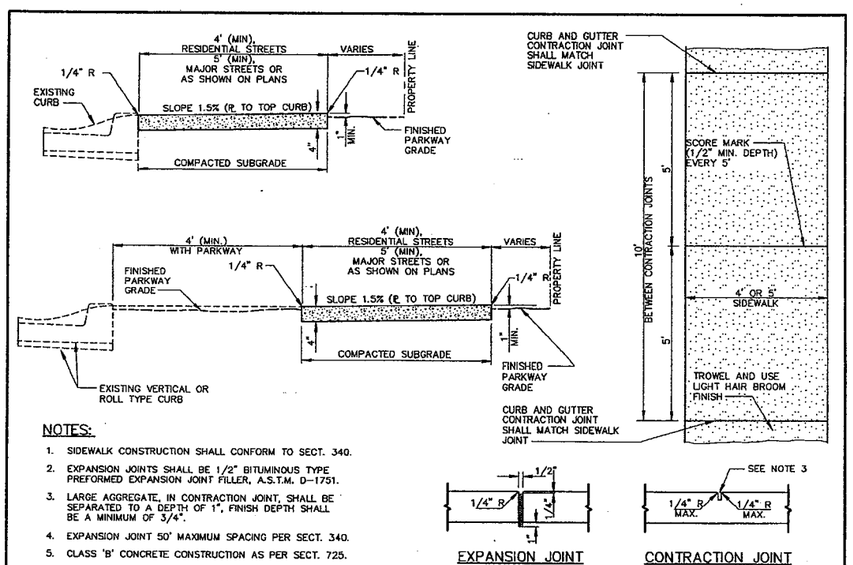
NOTES: (C & D)

1. ALL WORK AND MATERIALS SHALL CONFORM TO SECT. 304, 505 AND 725. BROOM FINISH TO EXPOSED SURFACE.
2. CONTRACTION JOINT SPACING 10' MAXIMUM.
3. EXPANSION JOINTS AS PER SECT. 340.
4. CLASS 'B' CONCRETE PER 725.

DETAIL NO.	MARICOPA ASSOCIATION of GOVERNMENTS	STANDARD DETAIL ENGLISH	CURB AND GUTTER TYPES A, B, C AND D	REVISED	DETAIL NO.
220-1				01-01-2007	220-1



DETAIL NO.	MARICOPA ASSOCIATION of GOVERNMENTS	STANDARD DETAIL ENGLISH	SINGLE CURB - TYPES A, B AND TERMINATION	REVISED	DETAIL NO.
222				01-03-2002	222



NOTES:

1. SIDEWALK CONSTRUCTION SHALL CONFORM TO SECT. 340.
2. EXPANSION JOINTS SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER, A.S.T.M. D-1751.
3. LARGE AGGREGATE, IN CONTRACTION JOINT, SHALL BE SEPARATED TO A DEPTH OF 1", FINISH DEPTH SHALL BE A MINIMUM OF 3/4".
4. EXPANSION JOINT 50' MAXIMUM SPACING PER SECT. 340.
5. CLASS 'B' CONCRETE CONSTRUCTION AS PER SECT. 725.

DETAIL NO.	MARICOPA ASSOCIATION of GOVERNMENTS	STANDARD DETAIL ENGLISH	SIDEWALKS	REVISED	DETAIL NO.
230				01-01-2003	230

REDUCED SIZE
DO NOT SCALE

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CITY OF PEORIA PROJECT NO. P-0315

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Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
MAG STANDARD DETAILS

DESIGNED BY: LJA
DRAWN BY: LJA/TEM
SCALE:
HORIZONTAL=
VERTICAL=
SHEET DT-03
SHEET 23 OF 104
DATE 11/2009
W.O.

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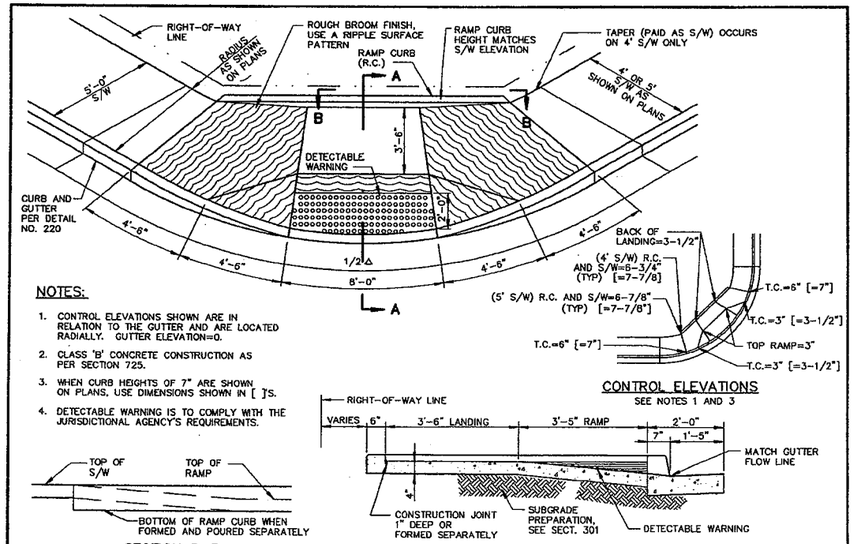
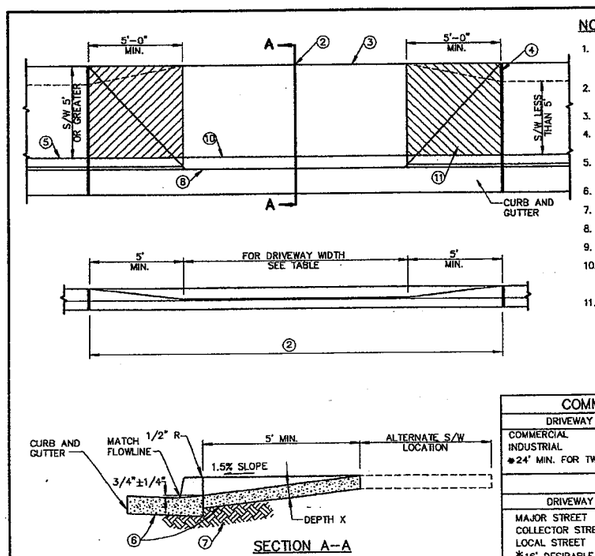


NOTES:

1. CONTROL ELEVATIONS SHOWN ARE IN RELATION TO THE GUTTER AND ARE LOCATED RADIALLY. GUTTER ELEVATION=0.
2. CLASS 'B' CONCRETE CONSTRUCTION AS PER SECTION 725.
3. WHEN CURB HEIGHTS OF 7" ARE SHOWN ON PLANS, USE DIMENSIONS SHOWN IN [ ]'S.
4. DETECTABLE WARNING IS TO COMPLY WITH THE JURISDICTIONAL AGENCY'S REQUIREMENTS.

DETAIL NO.	MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH		REVISED	DETAIL NO.
231		SIDEWALK RAMPS - TYPE 'A'	01-01-2006	231



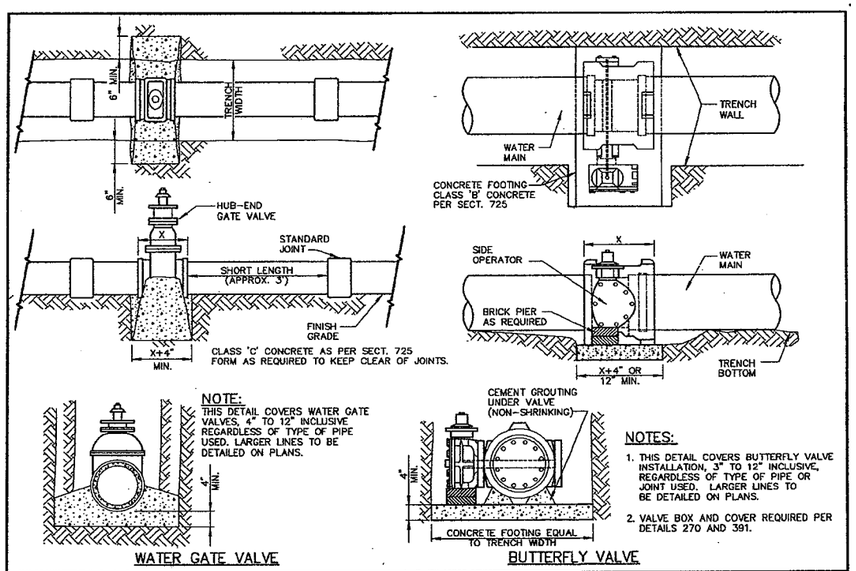
NOTES:

1. DEPRESSED CURB SHALL BE PAID FOR AT THE UNIT PRICE BID FOR THE TYPE OF CURB USED AT THAT LOCATION.
2. WHEN WIDTH EXCEEDS 22' PROVIDE A CONTRACTION JOINT ON D/W CENTERLINE.
3. BACK OF D/W OR FACE OF FUTURE S/W.
4. EXPANSION JOINTS SHALL COMPLY WITH SECTION 340.
5. BACK OF CURB – CONSTRUCTION JOINT OR SCORE MARK.
6. CLASS 'B' CONCRETE, SECT. 725.
7. SUBGRADE PREPARATION, SECT. 301.
8. FLOW LINE OF GUTTER.
9. DEPRESSED CURB.
10. SECT. A-A AND ELEVATION, D/W VERTICAL CURB AND GUTTER OR ROLL TYPE CURB AND GUTTER.
11. ROUGH BROOM FINISH FULL WIDTH OF 5' WARP SECTION, EACH SIDE OF DRIVEWAY.

COMMERCIAL AND INDUSTRIAL				
DRIVEWAY WIDTH	MIN.	MAX.	CLASS	DEPTH X
COMMERCIAL	● 16'	40'	B	6"
INDUSTRIAL	● 16'	40'	B	6"
●24' MIN. FOR TWO WAY TRAFFIC				

RESIDENTIAL				
DRIVEWAY WIDTH	MIN.	MAX.	CLASS	DEPTH X
MAJOR STREET	16'	30'	B	5"
COLLECTOR STREET	* 12'	30'	B	5"
LOCAL STREET	12'	30'	B	5"
*16' DESIRABLE				

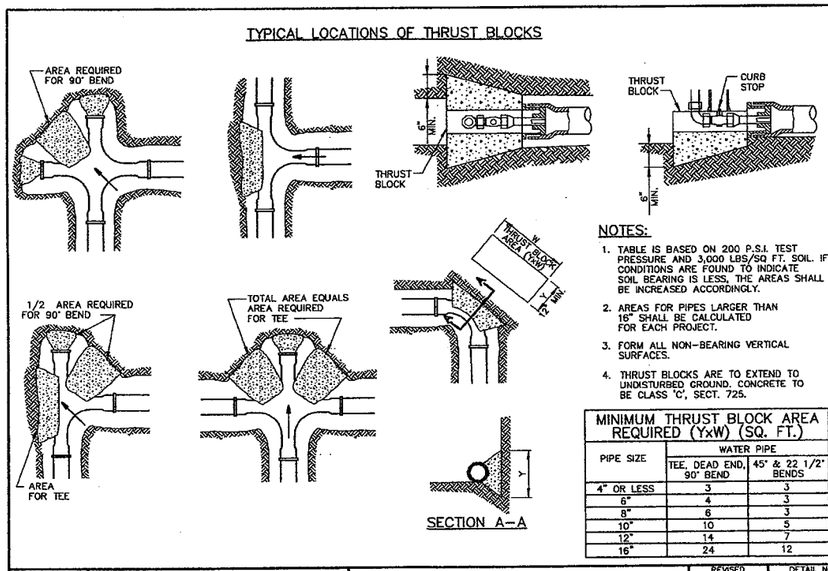
DETAIL NO.	MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH		REVISED	DETAIL NO.
250		DRIVEWAY ENTRANCES	01-01-2006	250



NOTES:

1. THIS DETAIL COVERS BUTTERFLY VALVE INSTALLATION, 3" TO 12" INCLUSIVE, REGARDLESS OF TYPE OF PIPE OR JOINT USED. LARGER LINES TO BE DETAILED ON PLANS.
2. VALVE BOX AND COVER REQUIRED PER DETAILS 270 AND 391.

DETAIL NO.	MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH		REVISED	DETAIL NO.
301		BLOCKING FOR WATER GATE AND BUTTERFLY VALVES		301



NOTES:

1. TABLE IS BASED ON 200 P.S.I. TEST PRESSURE AND 3,000 LBS/SQ FT. SOIL. IF CONDITIONS ARE FOUND TO INDICATE SOIL BEARING IS LESS, THE AREAS SHALL BE INCREASED ACCORDINGLY.
2. AREAS FOR PIPES LARGER THAN 16" SHALL BE CALCULATED FOR EACH PROJECT.
3. FORM ALL NON-BEARING VERTICAL SURFACES.
4. THRUST BLOCKS ARE TO EXTEND TO UNDISTURBED GROUND. CONCRETE TO BE CLASS 'C', SECT. 725.

MINIMUM THRUST BLOCK AREA REQUIRED (YxW) (SQ. FT.)		
PIPE SIZE	WATER PIPE	
	TEE, DEAD END, 90° BEND	45° & 22 1/2° BENDS
4" OR LESS	3	3
6"	4	3
8"	6	3
10"	10	5
12"	14	7
16"	24	12

DETAIL NO.	MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH		REVISED	DETAIL NO.
380		THRUST BLOCKS FOR WATER LINES		380

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91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
MAG STANDARD DETAILS

DESIGNED BY: LJA
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VERTICAL=
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SHEET 24 OF 104
DATE 11/2009
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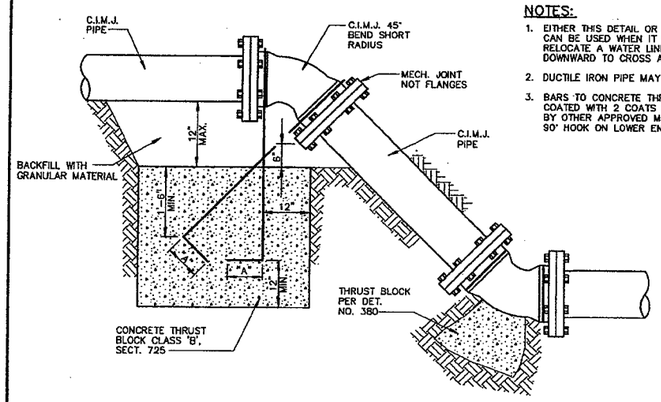
PIPE SIZE	MIN BAR SIZE	"A"-DIMENSION HOOK	MIN. * BLOCK DIM.
6"	#6	6"	3' x 3' x 3'
8"	#6	9"	4' x 4' x 2.5'
12"	#8	9"	4' x 4' x 5'

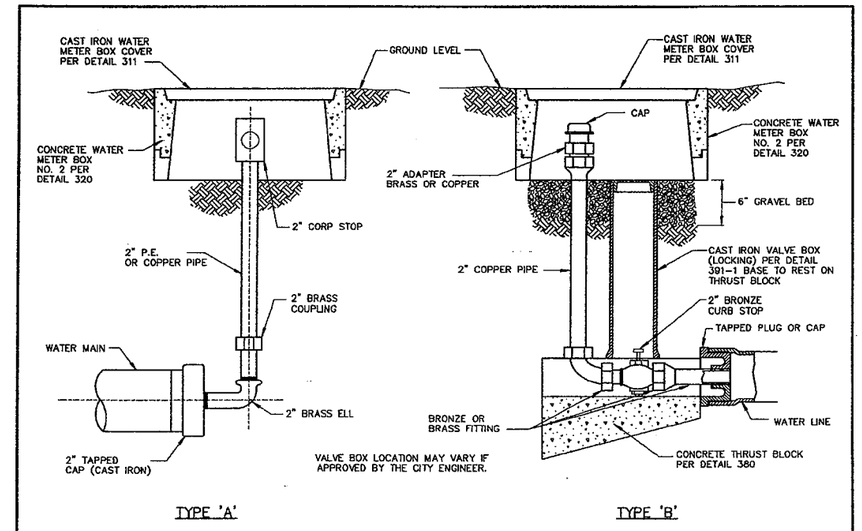
* FOR 125 P.S.I. WORKING PRESSURE.

NOTES:

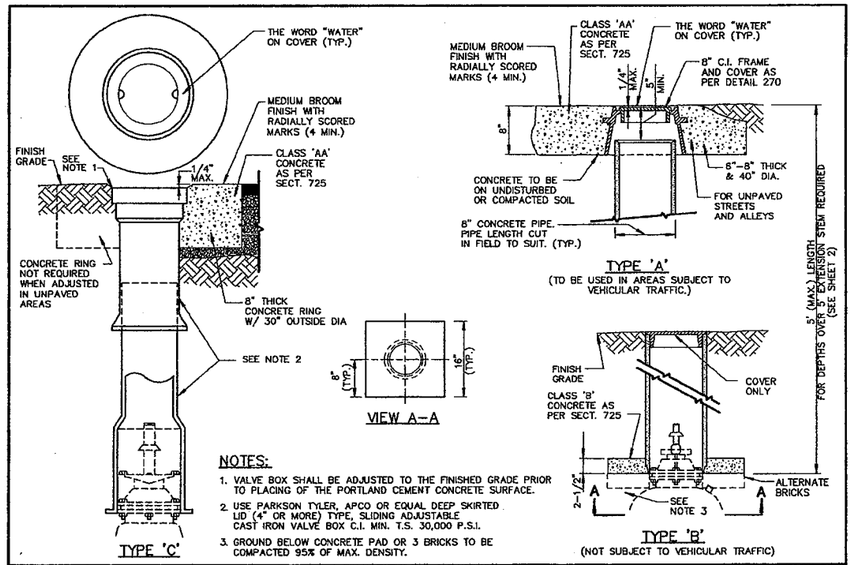
1. EITHER THIS DETAIL OR RESTRAINT RODS CAN BE USED WHEN IT IS ALLOWED TO RELOCATE A WATER LINE UPWARD OR DOWNWARD TO CROSS A CONFLICT.
2. DUCTILE IRON PIPE MAY BE USED.
3. BARS TO CONCRETE THRUST BLOCK TO BE COATED WITH 2 COATS COAL TAR, EPOXY OR BY OTHER APPROVED METHOD. BARS TO HAVE 90° HOOK ON LOWER END, AS PER TABLE.



DETAIL NO.			REVISED	DETAIL NO.
381	MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH	ANCHOR BLOCKS FOR VERTICAL BENDS		381



DETAIL NO.			REVISED	DETAIL NO.
390	MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH	CURB STOP WITH FLUSHING PIPE		390

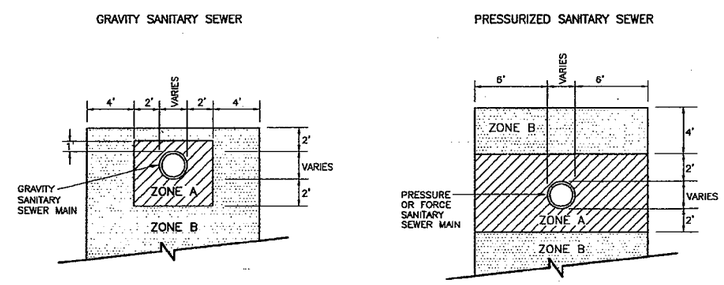


NOTES:

1. VALVE BOX SHALL BE ADJUSTED TO THE FINISHED GRADE PRIOR TO PLACING OF THE PORTLAND CEMENT CONCRETE SURFACE.
2. USE PARKSON TYLER, APCO OR EQUAL DEEP SKIRTED LID (4" OR MORE) TYPE, SLIDING ADJUSTABLE CAST IRON VALVE BOX C.I. MIN. T.S. 30,000 P.S.I.
3. GROUND BELOW CONCRETE PAD OR 3 BRICKS TO BE COMPACTED 95% OF MAX. DENSITY.

DETAIL NO.			REVISED	DETAIL NO.
391-1	MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH	VALVE BOX INSTALLATION AND GRADE ADJUSTMENT	01-01-2001	391-1

WATER LINE EXCLUSION AND EXTRA PROTECTION ZONES*



NOTES:

ZONE A: NO WATER LINES ALLOWED/MINIMUM SEPARATION.
ZONE B: EXTRA PROTECTION REQUIRED FOR WATER LINES.
* REFER TO STANDARD 610, WATER LINE CONSTRUCTION.

DETAIL NO.			REVISED	DETAIL NO.
404-1	MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH	WATER AND SANITARY SEWER SEPARATION/PROTECTION	01-01-2006	404-1

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91ST AVENUE AND OLIVE AVENUE
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MAG STANDARD DETAILS

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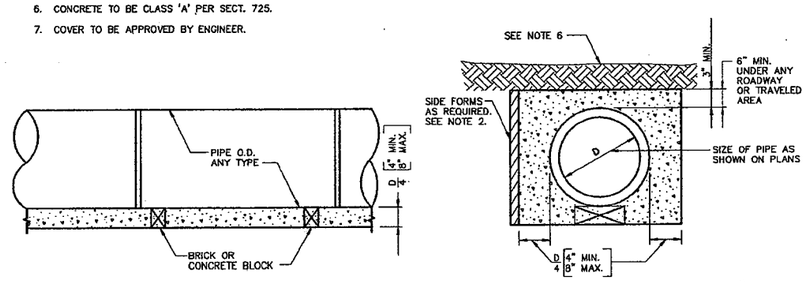
DRAWN BY: LJA/TEM
SCALE:
HORIZONTAL=
VERTICAL=
SHEET DT-05
SHEET 25 OF 104
DATE 11/2009
W.O.

NOTES:

1. THIS DETAIL SHALL BE REQUIRED WHEN NEW OR EXISTING PIPE INSTALLATIONS WILL BE SUBJECT TO DAMAGE ANYTIME IN THE FUTURE DUE TO LACK OF PROPER COVER, AS DETERMINED BY THE ENGINEER.
2. FOR PIPE OVER 18" I.D. WOOD, METAL OR GYPSUM BOARD FORMS MUST BE USED TO FORM THE SIDES OF THE ENCASEMENT. GYPSUM BOARD FORMS MAY BE LEFT IN THE GROUND BELOW THE TOP OF THE ENCASEMENT. THIS SHALL BE OPTIONAL WITH POURING AGAINST TRENCH WALLS FOR ENCASEMENT OF 18" AND SMALLER PIPE.
3. FOR ALL SITUATIONS WHERE SIDE FORMS ARE USED, TRENCH WALLS SHALL BE OVER-EXCAVATED TO ALLOW SUFFICIENT ROOM TO OPERATE PROPER MECHANICAL COMPACTION EQUIPMENT.
4. CONCRETE WHICH SPILLS BEYOND 12" FROM THE SIDES OF THE PIPE FOR ANY REASON SHALL BE REMOVED BACK TO THE PROPER LINE PRIOR TO BACKFILLING.
5. SEE SECTION 601 FOR TRENCH PREPARATION.
6. CONCRETE TO BE CLASS 'A' PER SECT. 725.
7. COVER TO BE APPROVED BY ENGINEER.



LONGITUDINAL SECTION

END SECTION

DETAIL NO.			REVISED	DETAIL NO.
507	MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH	ENCASED CONCRETE PIPE (FOR SHALLOW INSTALLATION)		507

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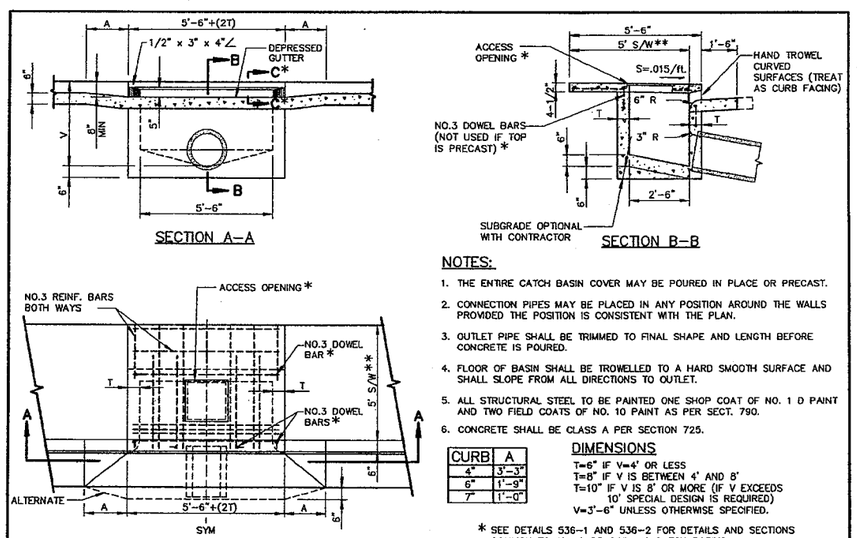


NOTES:

1. THE ENTIRE CATCH BASIN COVER MAY BE POURED IN PLACE OR PRECAST.
2. CONNECTION PIPES MAY BE PLACED IN ANY POSITION AROUND THE WALLS PROVIDED THE POSITION IS CONSISTENT WITH THE PLAN.
3. OUTLET PIPE SHALL BE TRIMMED TO FINAL SHAPE AND LENGTH BEFORE CONCRETE IS POURED.
4. FLOOR OF BASIN SHALL BE TROWELLED TO A HARD SMOOTH SURFACE AND SHALL SLOPE FROM ALL DIRECTIONS TO OUTLET.
5. ALL STRUCTURAL STEEL TO BE PAINTED ONE SHOP COAT OF NO. 1 D PAINT AND TWO FIELD COATS OF NO. 10 PAINT AS PER SECT. 790.
6. CONCRETE SHALL BE CLASS A PER SECTION 725.

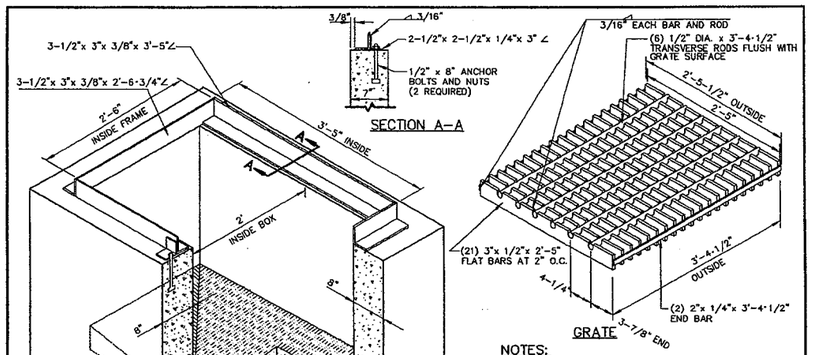
CURB	A
4"	3'-3"
6"	1'-9"
7"	1'-0"

DIMENSIONS

T=6" IF V=4' OR LESS
T=8" IF V IS BETWEEN 4' AND 8'
T=10" IF V IS 8' OR MORE (IF V EXCEEDS 10' SPECIAL DESIGN IS REQUIRED)
V=3'-6" UNLESS OTHERWISE SPECIFIED.

* SEE DETAILS 536-1 AND 536-2 FOR DETAILS AND SECTIONS COMMON TO ALL CURB OPENING CATCH BASINS.
** 4' LOCATIONS WHERE 4' S/W IS REQUIRED.

DETAIL NO.			REVISED	DETAIL NO.
531	MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH	5'-6" CURB OPENING CATCH BASIN - TYPE 'B'		531



NOTE:
CONSTRUCT BOX AS PER CATCH BASIN TYPE 'E' (LOWER PORTION ONLY).

NOTES:

1. PIPES MAY ENTER OR LEAVE ANY WALL. BOTTOM OF BOX TO BE SLOPED TO OUTLET PIPE FROM ALL DIRECTIONS AND TROWELLED TO A HARD SMOOTH SURFACE.
2. CONNECTION PIPES MAY BE PLACED IN ANY POSITION AROUND THE WALLS PROVIDED THE POSITION IS CONSISTENT WITH THE PLAN.
3. OUTLET PIPE SHALL BE TRIMMED TO FINAL SHAPE AND LENGTH BEFORE CONCRETE IS POURED.
4. ALL STRUCTURAL STEEL TO BE PAINTED ONE SHOP COAT OF NO. 1 PAINT AND TWO FIELD COATS OF NO. 10 PAINT AS PER SECT. 790.
5. ALL WELDS ON FRAME AND SIDE BARS ON GRATE SHALL BE FULL LENGTH OF JOINT.

DETAIL NO.			REVISED	DETAIL NO.
535	MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH	CATCH BASIN TYPE 'F' (FOR USE WITHOUT CURB)		535

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SCALE:
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VERTICAL=
SHEET DT-06
SHEET 26 OF 104
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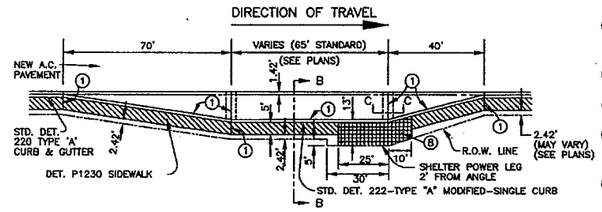
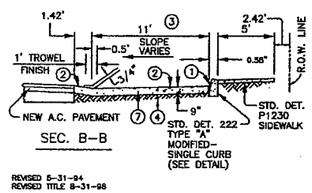
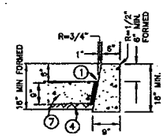
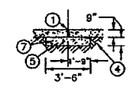






STD. DET. 222-TYPE "A" MOD. SINGLE CURB



1. 1/2" BITUMINUS PREFORMED EXPANSION JOINT FILLER, A.S.T.M. D-1751
2. CONCRETE BUS BAY PAVEMENT SHALL BE BROOM FINISHED, EXCEPT WHERE OTHERWISE NOTED.
3. MAY BE REDUCED TO 10' MINIMUM IF APPROVED BY CITY.
4. SUBGRADE PREPARATION PER SPECIFICATIONS.
5. CONCRETE PAD TO BE POURED SEPARATELY FROM CONCRETE BUS BAY PAVEMENT. (SEE SECTION C-C)
6. CONTRACTION JOINTS IN THE BUS BAY PAVEMENT SHALL MATCH THOSE IN THE CURB.
7. CONCRETE SHALL BE CLASS "A" PER M.A.G. SPECS. OR CLASS "S", f'c = 3000psi PER A.D.O.T. SPECS.
8. BUS SHELTER PAD SEE DETAIL P1261
9. DRIVEWAYS SHALL NOT BE LOCATED WITHIN THE SHELTER PAD AREA.
10. CAN BE USED AT INTERSECTIONS WITH TOTAL ROADWAY WIDTHS OF 74' OR LARGER.

REVISED 5-31-94
REVISED TITLE 8-31-98

DETAIL NO.	City of Phoenix STANDARD DETAIL	BUS BAY (TYPE 1)	APPROVED Mario Saldamando CITY ENGINEER 08-08-03 DATE	DETAIL NO.
P1256-1				P1256-1

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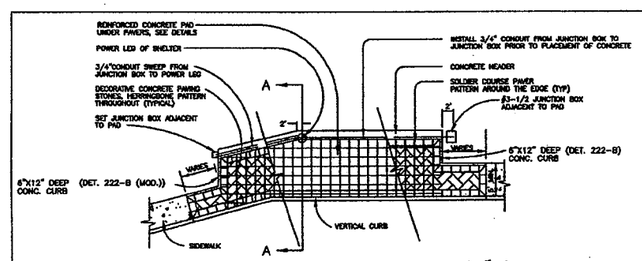
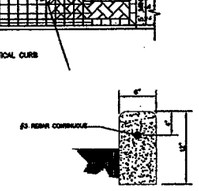
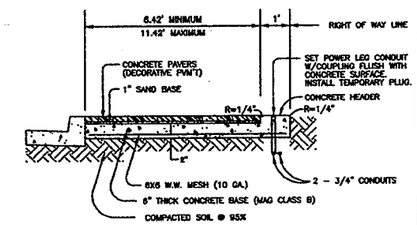




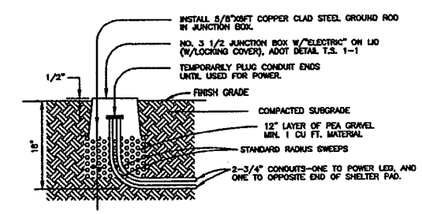
DETAIL 222-B(MOD)



SECTION A - A

GENERAL NOTES:

1. ALL CONDUIT SHALL BE P.V.C. SCHEDULE 40, U.L. LISTED.
2. ACTUAL PLAN LAYOUT MAY VARY. ALL DETAIL INFORMATION REMAINS THE SAME. SEE PLANS FOR SPECIFIC LOCATIONS AND DIMENSIONS OF BUS SHELTER PAD CONCRETE BASE AND DECORATIVE PAVEMENT TREATMENT.
3. ANY DECORATIVE PAVEMENT TREATMENT OUTSIDE THE AREA OF THE BUS SHELTER PAD CONCRETE BASE SHALL BE CONSTRUCTED ON A 1-INCH SAND BASE OVER 4-INCHES CEMENT-ENRICHED AGGREGATE BASE SLURRY (1 SACK TYPE II PORTLAND CEMENT PER CUBIC YARD OF AGGREGATE BASE COURSE MATERIAL) OVER 95% COMPACTED SUBGRADE SOIL.
4. ANY SHELTER OR BUS STOP FURNITURE PLACEMENT SHALL BE LOCATED TO PROVIDE A MIN. 5 ft. WIDE CLEAR SIDEWALK.
5. ALL COSTS ASSOCIATED WITH ELECTRICAL AND RELATED ITEMS SHOWN ON THESE DETAILS (CONDUITS, JUNCTION BOXES, GROUND ROD, ETC.) SHALL BE CONSIDERED INCLUDED IN THE COST OF THE PAY ITEM FOR CONCRETE BUS SHELTER PAD.
6. BUS BAY PAVEMENT, DECORATIVE PAVEMENT (INCLUDING CEMENT-ENRICHED A.B.C. SLURRY AND SANDBASE), 6"X12" D CONCRETE CURB, SINGLE CURB, CURB & GUTTER, SIDEWALKS, & DRIVEWAYS ARE SEPARATE PAY ITEMS.



SLEEVE SWEEP & JUNCTION BOX DETAIL

DETAIL NO.	City of Phoenix STANDARD DETAIL	BUS SHELTER ACCESSORY PAD - BUS BAY	APPROVED Mario Saldamando CITY ENGINEER 08-08-03 DATE	DETAIL NO.
P1261				P1261

DETAIL P1261:

a) Omit General Note 6

b) Concrete Bus Shelter Pad (DETAIL P1261) shall be measured and paid by square foot of decorative pavement installed. No additional measurement and payment shall be made for decorative pavement, cement-treated A.B.C., slurry, concrete curb, conduits, junction boxes, and ground rods as shown in DETAIL P1261.

c) Bus bay pavement shall be paid separately.

REDUCED SIZE
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CITY OF PEORIA PROJECT NO. P-0315

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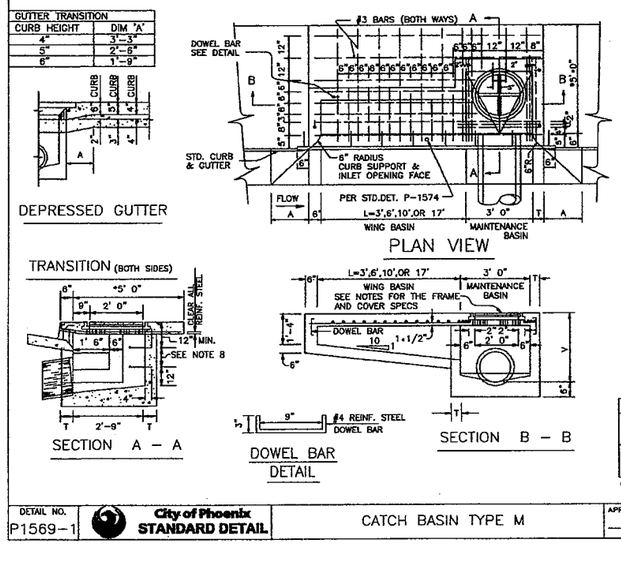
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
CITY OF PHOENIX
STANDARD DETAILS

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 31673 RAJESH S CHRISTIAN Date Signed 12-9-09 ARIZONA, U.S.A. EXPIRES 09/30/2012

DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= VERTICAL=	
SHEET	DT-07
SHEET	27 OF 104
DATE	11/2009
W.O.	

GUTTER TRANSITION	
CURB HEIGHT	DIM 'A'
4"	3'-3"
5"	2'-6"
6"	1'-9"



NOTES

1. TYPES ARE DESIGNATED AS FOLLOWS: 'M'.. NO WING, 'M-1'.. ONE WING, 'M-2'.. TWO WINGS.
2. ALL CONCRETE SHALL BE CLASS 'A'.
3. ALL REINFORCING STEEL SHALL BE DEFORMED BARS AMD SHALL CONFORM TO A.S.T.M. SPECIFICATION 615.
4. CONNECTOR PIPES SHALL BE PLACED IN THE APPROPRIATE WALL OF THE MAINTENANCE BASIN.
5. FLOOR OF BASIN SHALL BE TROWELLED TO A HARD, SMOOTH SURFACE AND SHALL SLOPE FROM ALL DIRECTIONS TO OUTLET.
6. CONSTRUCTION DRAINS SHALL BE INSTALLED IN ALL INLETS BUILT WITH PAVING PROJECTS. (SEE DET. P-1575.)
7. LOCATE WING BASIN ON UPSTREAM SIDE OF MAINTENANCE BASIN FOR TYPE M-1. WING BASINS FOR TYPE M-2 SHALL BE BOTH SIDES OF MAINTENANCE BASIN.
8. STEPS (M.A.G. DET. 428 POLYPROPYLENE)– V=3' (INCL.). PLACE ONE STEP 12" ABOVE THE FLOOR OF THE BASIN. V OVER 3' PLACE STEPS AT 12" INTERVALS FROM THE FLOOR OF THE BASIN WITH THE TOP STEP AT 12" (MIN.) BELOW THE TOP OF THE GRATE.
9. ACCESS FRAME AND COVER PER DET. P-1561

CATCH BASIN WALL THICKNESS
T = 6" IF V = 4' OR LESS T = 8" IF V = 4' TO 8' (IF V EXCEEDS 8', SPECIAL DESIGN IS REQUIRED.)
L = 0' UNLESS SPECIFIED ON THE PLANS V = 3'-8" MIN. WHEN L = 3' OR 6' V = 4'-0" MIN WHEN L = 10' OR 17'

*4'-0" IN LOCATIONS WHERE 4' SIDEWALK IS REQ'D.

DETAIL NO.			APPROVED	DETAIL NO.
P1569-1	City of Phoenix STANDARD DETAIL	CATCH BASIN TYPE M	CITY ENGINEER — 8-27-01 DATE	P1569-1

NOTE:
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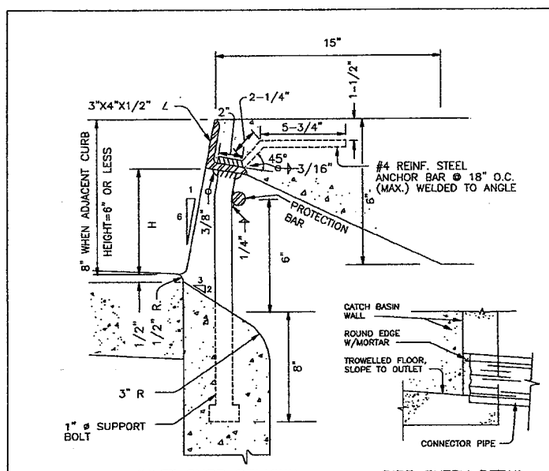

NOTES

1. CURB OPENING HEIGHT 'H' SHALL BE 5" (MINIMUM) UNLESS OTHERWISE SPECIFIED.
2. WHEN CURB OPENING HEIGHT 'H' EXCEEDS 6", INSTALL 1"Ø STEEL PROTECTION BARS. THE PROTECTION BARS SHALL EXTEND THE FULL LENGTH OF THE CURB OPENINGS AND SHALL BE EMBEDDED 3"(MIN.) AT EACH END.
3. INSTALL ADDITIONAL BARS AT 3 1/2" CLEAR SPACING ABOVE FIRST BAR WHEN OPENING EXCEEDS 13".
4. WHEN CURB OPENING LENGTH EXCEEDS 6', INSTALL 1"ø STEEL SUPPORT BOLTS, SPACED AT NO MORE THAN 5' O.C.
5. ALL EXPOSED METAL HARDWARE SHALL BE GIVEN ONE SHOP COAT OF NO.1 PAINT AND 2 FIELD COATS OF NO.10 PAINT AS PER SECTION 790.
6. ALL METAL UNITS SHALL BE FABRICATED FROM STRUCTURAL STEEL EXCEPT AS NOTED. STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH A.S.T.M. A-36.
7. WELDING SHALL BE IN ACCORDANCE WITH M.A.G. WELDING SPECIFICATIONS.
8. CONNECTOR PIPE SHALL BE TRIMMED TO THE FINAL SHAPE AND LENGTH BEFORE CONCRETE IS POURED.
9. WHEN CATCH BASIN IS LOCATED WITHIN A LANDSCAPE PARKWAY SECTION, SEE DETAIL P1569-2 FOR INLET MODIFICATIONS.

REVISED: 3-1-92

DETAIL NO.			APPROVED	DETAIL NO.
P1574	City of Phoenix STANDARD DETAIL	INLET CURB OPENING & PIPE ENTRY DETAIL	CITY ENGINEER — 07-09-92 DATE	P1574

*NOTE: MODIFY CITY OF PHOENIX STANDARD DETAIL P1574 BY CHANGING THE DIRECTION OF 3"X4" ANGLE SO THAT THE 3" SIDE IS VERTICAL AND THE 4" SIDE HORIZONTAL.

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91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
CITY OF PHOENIX
STANDARD DETAILS

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 31516673 RAJESH S. CHRISTIAN DATE SIGNED 12-3-09 ARIZONA, U.S.A. EXPIRES 09/30/2010

DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= VERTICAL=	
SHEET	DT-08
SHEET	28 OF 104
DATE	11/2009
W.O.	

CITY OF PEORIA STANDARD DETAIL PE-011-1
PAVEMENT MARKING MANUAL, PAGE 1

APPROVALS: CITY ENGINEER — DATE 2/22/07

WHITE PLAN SYMBOLS

LEGEND:

- 4BW — 4" Broken white line with a 15' line segment and a 25' gap
- 4SW — 4" Solid white line
- 4DTW — 4" Dashed white line with a 2' line segment and a 4' gap
- 8SW — 8" Solid white line
- 12SW — 12" Solid white line
- 24SW — 24" Solid white line For use at Grade Crossings only.
- 6SW — 6" Solid white line
- 8DTW — 8" Dashed white line with a 3' line segment and 9' gap

01/15/2007

CITY OF PEORIA STANDARD DETAIL PE-011-2
PAVEMENT MARKING MANUAL, PAGE 2

APPROVALS: CITY ENGINEER — DATE 2/22/07

WHITE PLAN SYMBOLS WITH RAISED PAVEMENT MARKERS

LEGEND:

- 4BW40 — 40' — 4" Broken white line with a 15' line segment and a 25' gap with type 'G' rpm's @ 40' spacing
- 4SW80 — 80' — 4" Solid white line with type 'G' rpm's @ 80' spacing (For curved sections of roadway use 40" spacing)
- 8SW20 — 20' — 8" Solid white line with type 'G' rpm's @ 20' spacing
- 8SW40 — 40' — 8" Solid white line with type 'G' rpm's @ 40' spacing

01/15/2007

CITY OF PEORIA STANDARD DETAIL PE-011-3
PAVEMENT MARKING MANUAL, PAGE 3

APPROVALS: CITY ENGINEER — DATE 2/22/07

RAISED PAVEMENT MARKER TYPES

LEGEND:

- Type A = White (non reflective)
- Type AY = Yellow (non reflective)
- Type D = Yellow, two-way (reflective)
- Type G = Clear, one-way (reflective)
- Type H = Yellow, one-way (reflective)
- Type J = White, raised domes (reflective)
- TypeJR = Yellow, raised domes (reflective)

GENERAL NOTES:

Raised pavement markers shall be placed so that the reflective face of the marker is facing and perpendicular to traffic.

02/02/2007

CITY OF PEORIA STANDARD DETAIL PE-011-4
PAVEMENT MARKING MANUAL, PAGE 4

APPROVALS: CITY ENGINEER — DATE 2/22/07

YELLOW PLAN SYMBOLS

LEGEND:

- 4BY — 4" Broken yellow line with a 15' line segment and a 25' gap
- 4SY — 4" Solid yellow line
- 4SBY — 4" Solid Broken Yellow, one solid, one broken with a 15' line segment and a 25' gap
- 4DY — 4" Double Yellow Line

01/15/2007

CITY OF PEORIA STANDARD DETAIL PE-011-5
PAVEMENT MARKING MANUAL, PAGE 5

APPROVALS: CITY ENGINEER — DATE 2/22/07

YELLOW PLAN SYMBOLS WITH RAISED PAVEMENT MARKERS

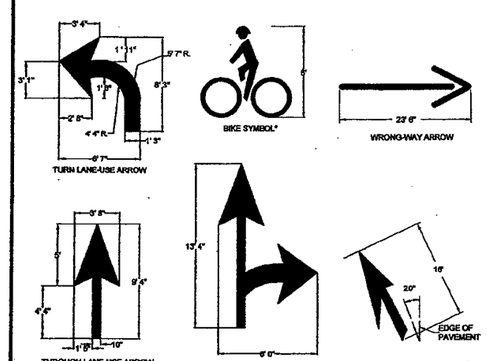
LEGEND:

- 4BY40 — 40' — 4" Broken yellow line with a 15' line segment and a 25' gap with type 'D' rpm's @ 40' spacing
- 4SY40 — 40' — 4" Solid yellow line with type "D" rpm's @ 40' spacing (For curved sections of roadway use 20' spacing.)
- 4SY80 — 80' — 4" Solid yellow line with type "D" rpm's @ 80' spacing (For straight sections of roadway)
- 4SBY — 40', TYPE "D" 20' — 4" Solid Broken Yellow, one solid, one broken with a 15' line segment and a 25' gap, with type "D" rpm's @ a 40' spacing (broken) type "D" rpm's @ a 20' spacing (solid)
- 4DY20 — 20' — 4" Double Yellow with type 'D' rpm's @ 20' spacing
- 4DY40 — 40' — 4" Double Yellow with type 'D' rpm's @ 40' spacing

01/22/2007

CITY OF PEORIA STANDARD DETAIL PE-013
ARROW & BIKE SYMBOLS

APPROVALS: CITY ENGINEER — DATE 2/22/07



*BICYCLIST TO BE FACING THROUGH TRAVEL LANES

01/22/2007

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CITY OF PEORIA
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DRAWN BY:	LJA/TEM
SCALE: HORIZONTAL= VERTICAL=	
SHEET	DT-09
SHEET	29 OF 104
DATE	11/2009
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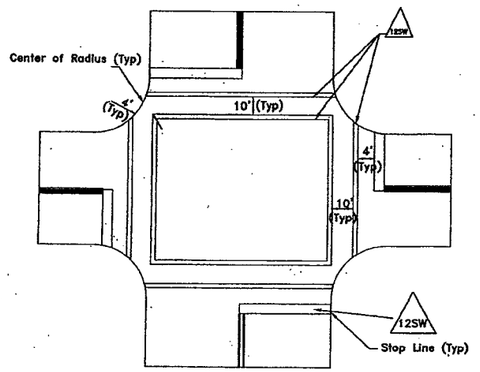
CITY OF PEORIA
STANDARD DETAIL PE-014
STANDARD CROSSWALK AND STOP LINES

APPROVALS: CITY ENGINEER — DATE 2/22/07



(For New Installations)
(N.T.S.)

GENERAL NOTES:

1. Marked crosswalks shall be installed at signalized intersections which include pedestrian signal indications.
2. All new crosswalk installation shall be installed based on an engineering study.

LEGEND:

12SW — 12" Solid white line

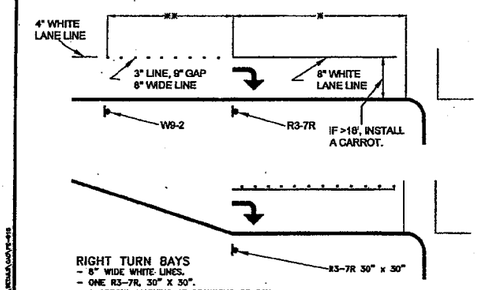
01/22/2007

CITY OF PEORIA
STANDARD DETAIL PE-015
STANDARD RIGHT TURN BAY AND DROP LANE LAYOUT

APPROVALS: CITY ENGINEER — DATE 2/22/07

*POSTED SPEED (MPH)	d** (FT)
20	225
25	325
30	450
35	550
40	650
45	750
50	850
55	950
60	1100

**EXCERPT FROM MUTCD 2003 TABLE 2C-4

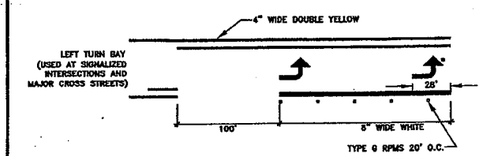


RIGHT TURN BAYS
- 8" WIDE WHITE LINES.
- ONE R3-7R, 30" X 30".
- 1 ARROW, MARKING AT BEGINNING OF BAY.
- IF BAY IS 250' OR MORE, 2ND ARROW TO BE INSTALLED AT END OF BAY.

01/22/2007

CITY OF PEORIA
STANDARD DETAIL PE-016
STANDARD LEFT TURN BAY LAYOUT

APPROVALS: CITY ENGINEER — DATE 2/22/07



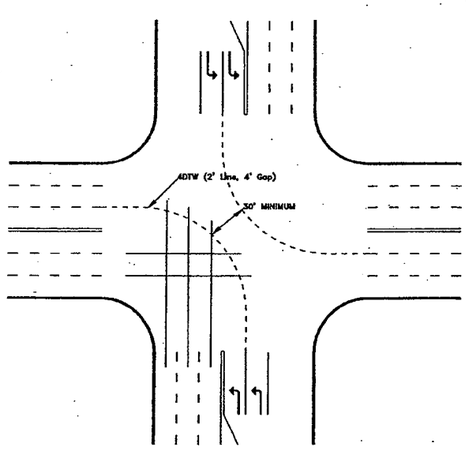
*IF BAY IS LONGER THAN 250', A SECOND ARROW IS PLACED AT THE TOP OF THE BAY.

NOTE: PAVEMENT MARKING PLAN NOTATION/SYMBOLOGY IN ACCORDANCE WITH MCDOT PAVEMENT MARKING MANUAL.

01/22/2007

CITY OF PEORIA
STANDARD DETAIL PE-017
DUAL LEFT TURN STRIPING LAYOUT

APPROVALS: CITY ENGINEER — DATE 2/22/07



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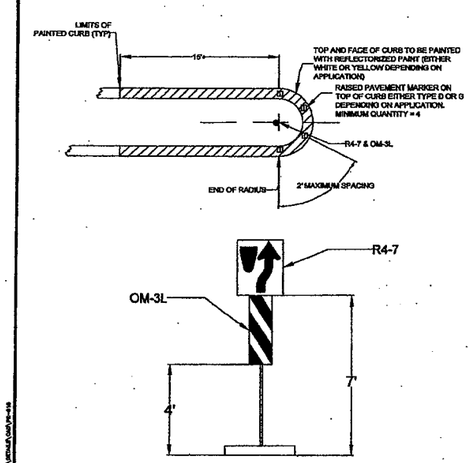
CITY OF PEORIA
STANDARD DETAIL PE-018
TYPICAL MEDIAN NOSE MARKINGS

APPROVALS: CITY ENGINEER — DATE 2/22/07

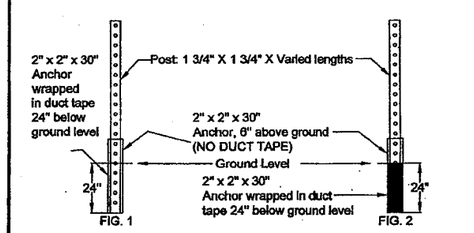


01/22/2007

CITY OF PEORIA
STANDARD DETAIL PE-032
SIGN POST SPECIFICATION

APPROVALS: CITY ENGINEER — DATE 2/22/07

City of Peoria requires square tubing for post mounted installations. Tubing shall have a galvanized finish and be roll form 12 gage (.105-U.S.S. gage) cold rolled steel, be perforated, and have hole size of 7/16 inch in diameter, and 1 inch on center on all sides. All sign heights shall conform to the Manual on Uniform Traffic Control Devices.



Post installation requires a 2" x 2" x 30" anchor to be installed pnuematically or hydraulically and shall be 24" in the ground and 6" above ground (see fig.1)

OR

Manual installation of anchor shall be 24" in ground, wrapped in duct tape to ground level, and 6" above ground without duct tape. Hole shall be 12" (max.) in diameter, 24" deep, filled with concrete to ground level. (see fig.2)

For singular signs a 1 ¾" x 1 ¾ " x 10" post is required. For multiple signs a 1 ¾" x 1 ¾" x varied length post per the Manual on Uniform Traffic Control Devices height specifications is required. For signs that exceed 42" in width, dual posts are required. Attachment of the post to the anchor requires a 5/16" x 2 ½" grade 5 hex head bolt with a 5/16" flat washer and hex nut. Attachment of the signs to the post requires a 5/16" x 2 ½" grade 5 hex head bolt with a 5/16" flat washer and hex nut.

01/22/2007

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INTERSECTION IMPROVEMENTS
CITY OF PHOENIX
STANDARD DETAILS

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SHEET DT-10
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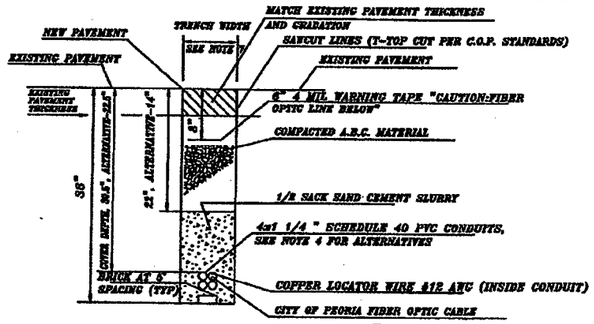
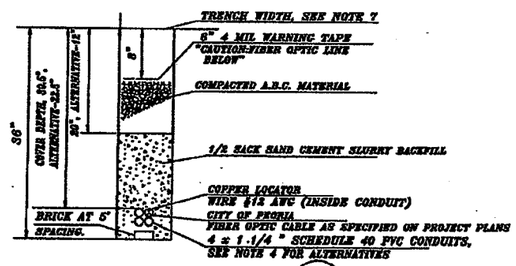
CITY OF PEORIA
STANDARD DETAIL PE-033
INTERCONNECT TRENCH DETAIL

APPROVALS: CITY ENGINEER — DATE 2/22/07



TYPICAL "A"
TRENCH DETAIL FOR ASPHALT PAVEMENT (A / IT-121)



TYPICAL "B"
EARTH TRENCH DETAIL (B / IT-121)

NOTES:

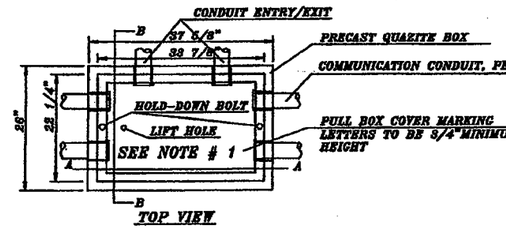
1. TRENCH DEPTH VARIES BASED ON CONFLICTS WITH EXISTING UTILITIES.
2. BID ITEM FOR PROVIDING A TRENCH THAT IS A MINIMUM OF 36 INCHES DEEP INCLUDES INSTALLING FIBER OPTIC DUCT AND PROVIDING BACKFILL, COMPLETE IN PLACE. THIS ITEM SHALL PROVIDE A MINIMUM COVER DEPTH OF 30.5 INCHES OVER THE CONDUIT DUCT. ALL WARNING TAPE, CONDUIT SPACERS, BRICKS, AND COMPACTION WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE BID OF ITEM, "TRENCHING (36") AND INSTALLATION OF FIBEROPTIC DUCT, AND BACKFILL, COMPLETE, IN PLACE." AN ALTERNATIVE TRENCH DEPTH OF 28 INCHES SHALL BE INCLUDED IN THE BID PRICE UNDER ALTERNATIVE ITEM, "TRENCHING (28") AND INSTALLATION OF FIBEROPTIC DUCTS AND BACKFILL, COMPLETE, IN PLACE." THE ALTERNATIVE BID ITEM SHALL PROVIDE A MINIMUM COVER DEPTH OF 22.5 INCHES OVER THE CONDUIT DUCTS. ALL INCIDENTALS TO THE BASIC BID ITEM SHALL ALSO BE CONSIDERED INCIDENTAL TO THE ALTERNATIVE ITEM.
3. BORING SHALL BE ALLOWED WITH ENGINEERS PRIOR APPROVAL.
4. IF THE CONDUIT ROUTING IS MODIFIED TO CROSS AN EXISTING PORTLAND CEMENT CONCRETE DRIVEWAY THE CONDUITS SHALL BE PLACED BY BORING. ALL ASPHALT DRIVEWAYS MAY BE TRENCHED.
5. ALL CONDUIT BENDS SHALL BE CONCRETE ENCASED FOR A MINIMUM OF TWO (2) FEET BEYOND EACH END OF THE BEND.
6. A 1/2 SACK OF CEMENT SLURRY BACKFILL SHALL BE USED WHEN BACKFILLING CONDUITS INSTALLED IN A TRENCH IN EARTH. CLASS "A" CONCRETE SHALL BE USED AS BACKFILL FOR ALL CONDUITS INSTALLED UNDER PAVEMENT. CONDUITS SHALL BE SUPPORTED AND ANCHORED IN THE TRENCH PRIOR TO BACKFILLING WITH THE CEMENT SLURRY OR CLASS "A" CONCRETE. LOCATOR WIRE SHALL HAVE A 5 FOOT SERVICE LOOP AND BE SPLICED IN EACH PULL BOX.
7. TRENCH WIDTH MAY NOMINALLY VARY FROM 6" TO 8" BUT SHALL NOT EXCEED 12 INCHES.
8. A SINGLE CONTINUOUS INSULATED COPPER LOCATOR WIRE AWG #12 SHALL BE INSTALLED INSIDE ONE OF THE CONDUITS ALONG THE ENTIRE LENGTH OF THE CONDUIT RUN. WIRE SHALL HAVE A FIVE FOOT SERVICE LOOP IN EACH PULL BOX. IF A CRIMPED SPLICE IS REQURED IT SHALL BE DONE IN THE PULL BOX ONLY AND "NOT" IN THE CONDUIT RUN.
9. PROVIDE 3/4 INCH WIDE 2500 LBF MULE PULL TAPE IN ALL CONDUITS FOR THE ENTIRE LENGTH OF THE CONDUIT RUN.
10. CONTRACTOR SHALL MAINTAIN A TEN TO ONE VARIANCE OF THE CONDUIT ALIGNMENT DURING INSTALLATION.

I:\GUIDE\DETAILS\CAD\PE-033

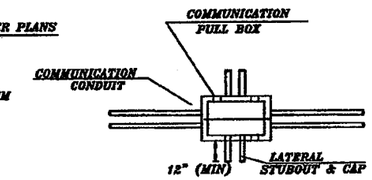
02/05/2007

CITY OF PEORIA
STANDARD DETAIL PE-034
INTERCONNECT PRECAST COMMUNICATION PULL BOX

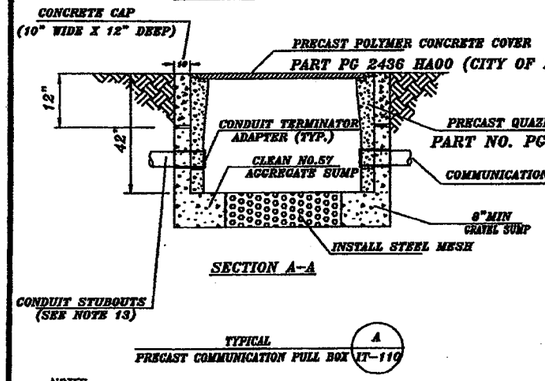
APPROVALS: CITY ENGINEER — DATE 2/22/07



TOP VIEW

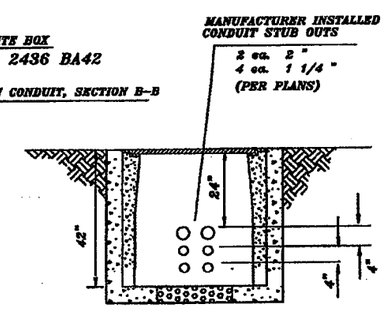


DETAIL C



SECTION A-A

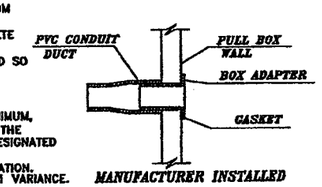
TYPICAL PRECAST COMMUNICATION PULL BOX (A / IT-110)



SECTION B-B

NOTES

1. PULL BOX SHALL BE PROVIDED WITH COVER AND SPECIAL CONCRETE CAP. COVER SHALL HAVE EMBOSSED NO-SKID PATTERN AND BE LABELED "CITY OF PEORIA TRAFFIC SIGNAL COMMUNICATIONS".
2. TOPS OF PULL BOXES SHALL BE FLUSH WITH SURROUNDING GRADE OR TOP OF ADJACENT CURB, EXCEPT IN UNPAVED AREAS WHERE PULL BOX IS NOT IMMEDIATELY ADJACENT TO AND PROTECTED BY A CONCRETE FOUNDATION, POLE OR OTHER PROTECTIVE CONSTRUCTION, THE BOX SHALL BE PLACED WITH ITS TOP 0.75 INCH ABOVE SURROUNDING GRADE. WHERE PRACTICAL, PULL BOXES SHOWN IN THE VICINITY OF CURBS SHALL BE PLACED ADJACENT TO THE BACK OF CURB, AND PULL BOXES SHOWN ADJACENT TO STANDARDS SHALL BE PLACED ON SIDE OF FOUNDATION FACING AWAY FROM TRAFFIC, UNLESS OTHERWISE NOTED.
3. ALL COVERS SHALL BE INTERCHANGEABLE BETWEEN BOXES. TOP OUTSIDE EDGE OF ALL CONCRETE COVERS AND PULL BOXES SHALL HAVE A 0.25 INCH MIN. RADIUS.
4. WHEN PULL BOX IS INSTALLED BY SIDEWALK AREA, THE DEPTH OF THE BOX SHALL BE ADJUSTED SO THAT THE TOP OF THE BOX IS FLUSH WITH THE TOP OF THE SIDEWALK.
5. PULL BOX SHALL NOT BE WITHIN THE BOUNDARIES OF NEW OR EXISTING WHEELCHAIR RAMPS.
6. ALL BENDS SHALL BE FACTORY BENDS.
7. CONTRACTOR SHALL ADAPT CONDUIT STUBOUTS FOR SPECIFIC PROJECT REQUIREMENTS. AS A MINIMUM,
8. PULL BOX SHALL BE PREDRILLED AND CONDUIT TERMINATOR ADAPTORS SHALL BE INSTALLED BY THE MANUFACTURER PER DETAIL "C" AND SECTION DIAGRAM B-B. IN LOCATION AND QUANTITY AS DESIGNATED IN PLANS
9. CONTRACTOR SHALL MAINTAIN A 10 TO 1 VARIANCE OF THE CONDIT ALIGNMENT DURING INSTALLATION. CONDUIT SHALL CONNECT TO THE BOX STUBOUTS WITH OUT BENDS GREATER THAN THE 10 TO 1 VARIANCE.
10. SEE SPECIAL PROVISIONS REGARDING HOLD DOWN BOLTS FOR TRAFFIC COVERS.
11. TERMINATORS FOR COMMUNICATION DUCTS AND LATERAL STUBOUTS SHALL BE PROVIDED.
12. STUBOUTS SHALL BE 12" IN LENGTH.
13. ALL DIMENSIONS ARE NOMINAL AND SHALL BE CONSIDERED MINIMUM. ANY VARIATIONS MUST BE PRE-APPROVED.
14. ALL GROUND CONNECTIONS SHALL BE COATED WITH OXIDATION PROHIBITING COMPOUND.
15. ALL CABLE STRAPS SHALL BE DESIGNED TO WITHSTAND ULTRA-VIOLET EXPOSURE.
16. PROVIDE RACKING AND MOUNTING HARDWARE FOR FIBER OPTIC CABLE.
17. PROVIDE PLUGS FOR ALL UNUSED CONDUITS.



MANUFACTURER INSTALLED CONDUIT TERMINATOR ADAPTER

NOTE:
WITH RIGID METAL CONDUIT USE THREADED NIPPLE AND LOCKING COLLAR INSIDE BOX WITH GASKET.

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CITY OF PEORIA PROJECT NO. P-0315

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91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS
CITY OF PEORIA
STANDARD DETAILS

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SCALE:	HORIZONTAL= VERTICAL=
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SHEET	31 OF 104
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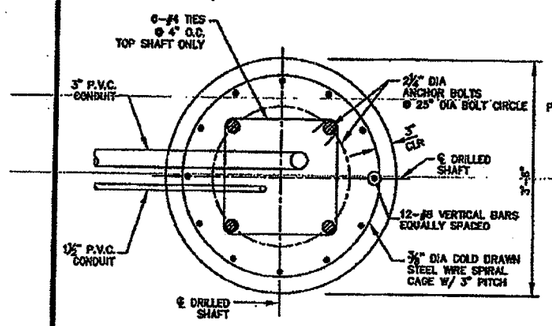
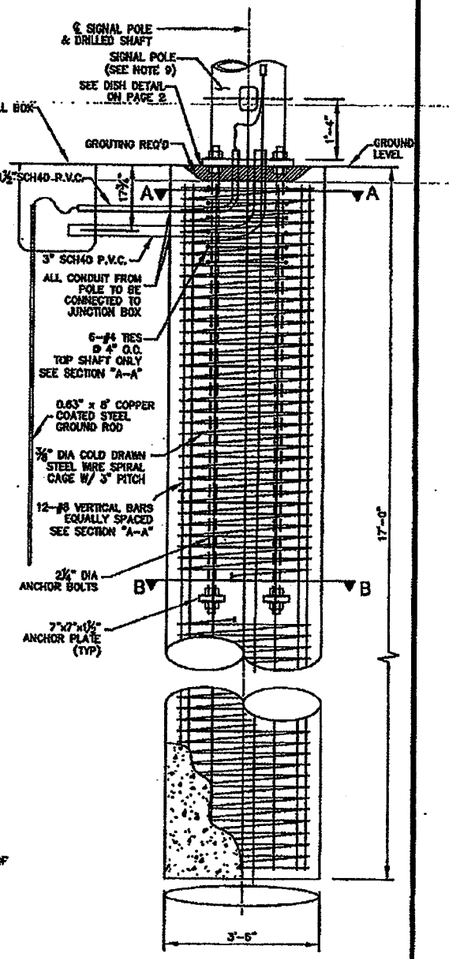
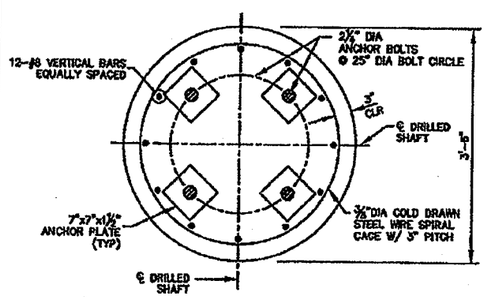
CITY OF PEORIA
STANDARD DETAIL PE-037-1
SIGNAL POLE FOUNDATION, MODIFIED "R" POLE
PAGE 1 OF 2

APPROVALS: CITY ENGINEER — DATE 3/10/08



SECTION "A-A"





SECTION "B-B"

NOTES:

1. ALL FOUNDATIONS SHALL BE CAST IN PLACE AGAINST UNDISTURBED EARTH. WELDING OF REINFORCING STEEL PROHIBITED.
2. A CIRCULAR FORM SHALL BE USED FOR THE TOP 17⅞" ONLY.
3. BOLTS TO BE SQUARE WITH ROADWAY OR AT ANGLE SHOWN ON PLANS.
4. PLACE ALL CONDUIT IN SAME TRENCH WHERE POSSIBLE.
5. ALL FOUNDATIONS SHALL BE 42" DIA 17'-0" FEET DEEP.
6. CONCRETE FOR FOUNDATION SHALL BE CLASS "A" (AE) F'C=3,000 PSI.
7. ANCHOR BOLTS SHALL CONFORM TO MINIMUM REQUIREMENTS OF ASTM A 307. ANCHOR BOLT SHALL NOT BE WELDED TO THE REINFORCING STEEL. THE NUTS, WASHERS, AND THE TOP 10" OF THE ANCHOR BOLTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153.
8. CAP CONDUIT ON BOTH ENDS PRIOR TO INSTALLATION.
9. FOUNDATION ACCOMMODATES MODIFIED R POLE SHOWN IN PEORIA DETAIL: PE-038

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CITY OF PEORIA
STANDARD DETAIL PE-037-2
SIGNAL POLE FOUNDATION, MODIFIED "R" POLE
PAGE 2 OF 2

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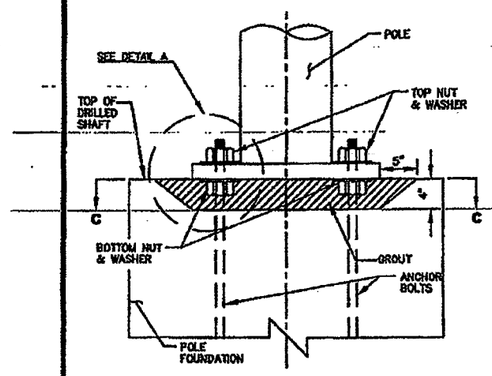
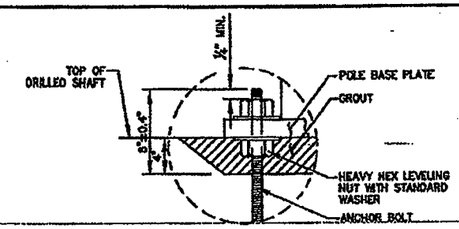
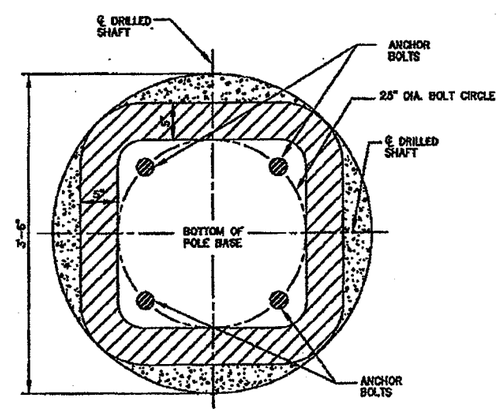


SIDE VIEW
POLE FOUNDATION - DISH DETAIL

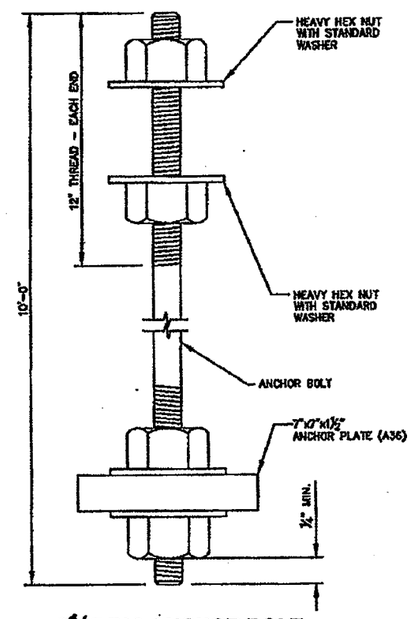


DETAIL "A"

1. BOTTOM OF POLE SHALL SIT FLUSH WITH TOP OF POLE FOUNDATION OR SIDEWALK.
2. AFTER POLE IS LEVELED GROUT IS TO BE INSTALLED FLUSH WITH TOP OF FUNDATION OR SIDEWALK.



SECTION C-C
POLE FOUNDATION - DISH DETAIL



2¼" DIA ANCHOR BOLT ASSEMBLY (4 REQUIRED)

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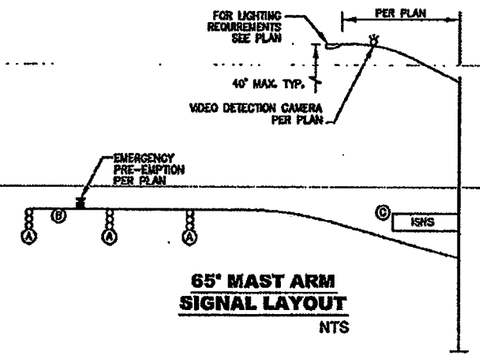
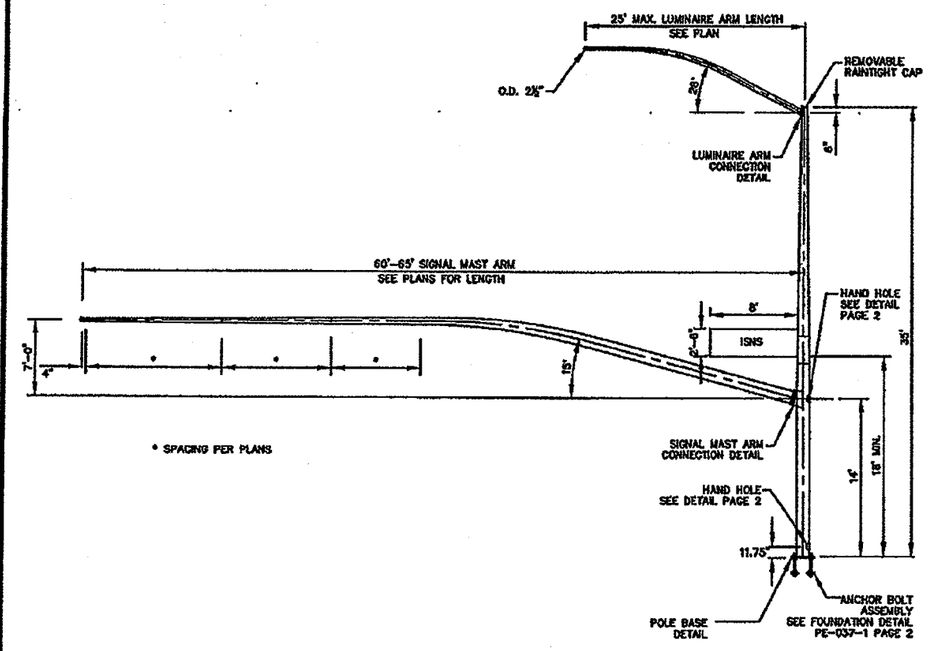
CITY OF PEORIA
STANDARD DETAIL PE-038-1
SIGNAL POLE, MODIFIED "R" POLE
PAGE 1 OF 2

APPROVALS: CITY ENGINEER — DATE 3/14/08

	DEVICE	DESCRIPTION
(A)	SIGNAL	12" SECTION W/6" BACK PLATE
(B)	SIGN	REGULATION 24" x 36"
(C)	SIGN	ILLUMINATED STREET NAME SIGN



65' MAST ARM SIGNAL LAYOUT
NTS



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CITY OF PEORIA
STANDARD DETAIL PE-038-2
SIGNAL POLE, MODIFIED "R" POLE
PAGE 2 OF 2

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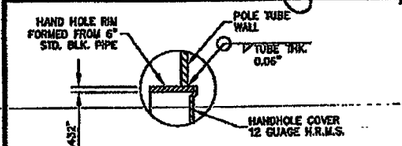
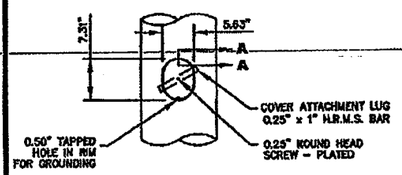
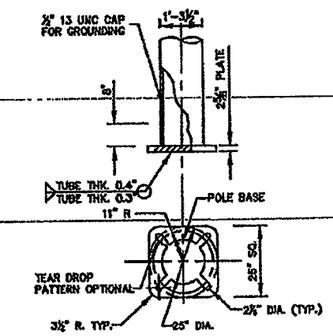


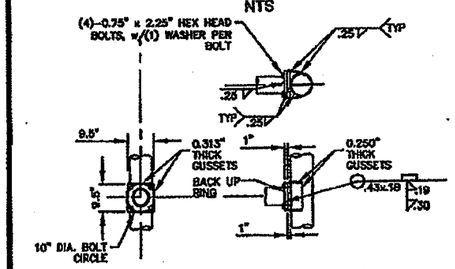
SECTON A-A



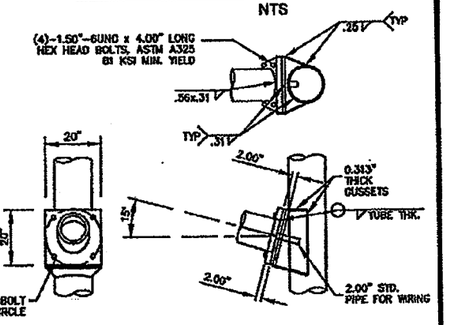
FLUSH HAND HOLE CASTING DETAIL
NTS



POLE BASE DETAIL
NTS



LUMINAIRE ARM CONNECTION
NTS



SIGNAL ARM CONNECTION
NTS

NOTES:

1. IT IS THE POLE MANUFACTURER'S RESPONSIBILITY TO ENSURE THAT THEIR EQUIPMENT IS DESIGNED TO ACCOMMODATE THE TOTAL LOAD OF ALL EQUIPMENT DEPICTED ON THE PLAN SET. IT IS ALSO THE RESPONSIBILITY OF THE POLE MANUFACTURER TO CONSTRUCT THE POLE BASE PLATE TO MATCH THE CONFIGURATION OF BOLTS AND FOUNDATION ON SHEET TS08 OF THIS PLAN SET.
2. POLES AND ARMS SHALL MEET THE DESIGN REQUIREMENTS OF AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS (CURRENT EDITION) FOR AN 80 MPH WIND WITH 100 MPH GUSTS.
3. STEEL POLE AND ARMS AND THE STRUCTURAL SECTION PROPERTIES SHALL BE DESIGNED USING A MAXIMUM ALLOWABLE STRENGTH OF 55 KSI. STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 48.3 KSI WITH NO CREDIT ALLOWANCE FOR COLD WORKING.
4. ALL STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A 123.
5. TUBE DIAMETERS TOLERANCE OF ± 0.125".
6. ALL GALVANIZED STEEL THREADS SHALL BE FREE FROM DEFECTS ALLOWING NUTS TO BE FREE RUNNING BY HAND FOR THE ENTIRE LENGTH OF THE THREADS.
7. WELDING DESIGN AND FABRICATION SHALL BE IN ACCORDANCE WITH CURRENT AMERICAN WELDING SOCIETY (AWS) SPECIFICATION D1.1 ALL WELDING, REGARDLESS OF WHERE IT IS DONE (SHOP OR FIELD) OR WHAT COMPONENTS ARE WELDED (REBAR, STEEL, OR OTHER METALS), MUST BE DONE BY AN AWS CERTIFIED WELDER. THIS INCLUDES TEMPORARY STEEL STRUCTURES SUCH AS FALSEWORK AND UNDERGROUND SHORING. CONTRACTORS MUST SUBMIT COPIES OF CURRENT AWS CERTIFICATION TO THE CITY ENGINEER BEFORE ANY FIELD WELDING BEGINS.
8. DUAL MAST ARM POLE ASSEMBLY, ARMS SHALL BE AT 90 DEGREES.
9. ALL INSULATORS SHALL BE BANDED.
10. POLES AND ARMS SHALL BE CIRCULAR CROSS SECTIONS.
11. SHOP DRAWINGS ARE REQUIRED TO BE SUBMITTED TO THE CITY OF PEORIA FOR REVIEW PRIOR TO THE ORDERING OF ANY EQUIPMENT.
12. ALL BUTT OR GROOVE WELDS SHALL BE GROUND FLUSH.
13. UNLOADED – NO DEAD OR LIVE LOAD.

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CITY OF PEORIA
STANDARD DETAIL PE-119
HANDRAIL DETAIL

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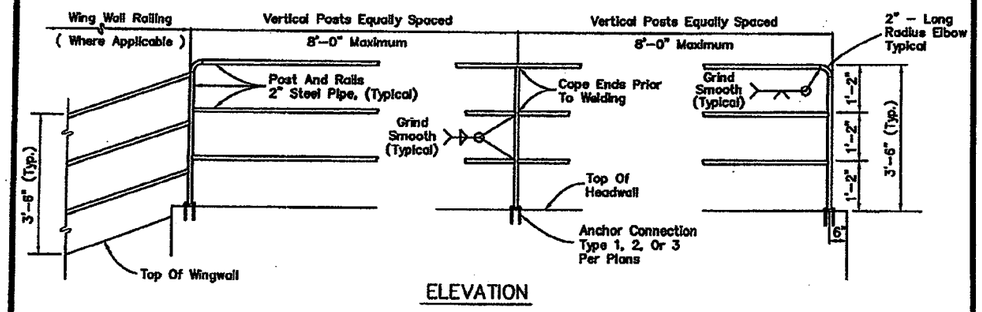
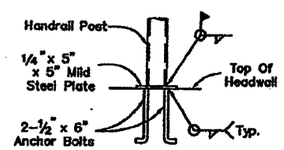
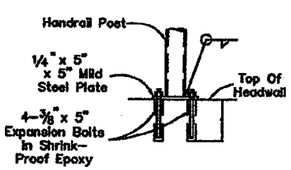


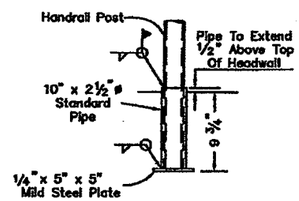
ELEVATION



TYPE 1
ANCHOR PLATE DETAIL



TYPE 2
EXPANSION BOLT DETAIL



TYPE 3
PIPE SLEEVE DETAIL

CONSTRUCTION NOTES

1. Paint handrail per MAG Specifications Section 530. Color to be determined by the City of Peoria.
2. Vertical posts to be evenly spaced.
3. To be installed as needed.

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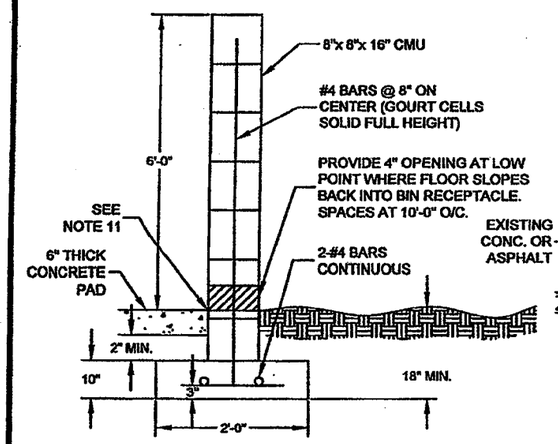
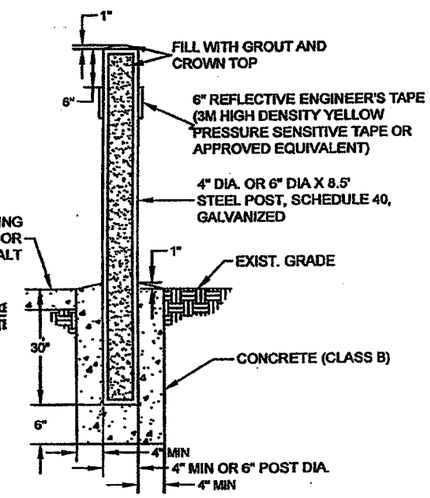
01/22/2007

CITY OF PEORIA
STANDARD DETAIL PE-146-4
BIN ENCLOSURE SCREEN WALL, SAFETY POST & GATE STANDARDS

APPROVALS: CITY ENGINEER — DATE 2/21/07 — PUBLIC WORKS DIRECTOR — DATE 02-26-2007





NOTES

1. TRASH AND RECYCLING BIN AREA SHALL BE SCREENED WITH A SIX FOOD (6') MASONRY WALL PER DETAIL ON THIS SHEET.
2. BIN ENCLOSURE TO BE A MINIMUM OF 3 FEET FROM ANY PLANNED OR EXISTING STRUCTURE AT ITS CLOSEST POINT.
3. ALL ENCLOSURES SHALL HAVE GATES THAT SCREEN THE BINS FROM PUBLIC VIEW.
4. GATES SHALL BE INSTALLED SO THERE IS A NET BIN ENCLOSURE OPENING OF 12 FEET PER BIN. GATES, HINGES, AND MOUNTING HARDWARE SHALL NOT INTRUDE UPON MINIMUM NET ENCLOSURE OPENING.
5. GATES, HINGES, AND MOUNTING HARDWARE SHALL BE INSTALLED SO THERE IS A MINIMUM 9 FOOT DEPTH CREATED WITHIN EACH ENCLOSURE.
6. EACH ENCLOSURE GATE SHALL HAVE DROP PINS INSTALLED AND HOLES DRILLED IN THE CONCRETE AT BOTH THE OPEN AND CLOSED POSITIONS TO PREVENT GATES FROM CLOSING INTO THE COLLECTION VEHICLE.
7. BIN ENLOSURES SHALL HAVE (2) 4" DIAMETER STEEL SAFETY POSTS INSTALLED IN THE BACK OF THE ENCLOSURE ONLY PER DETAIL ON THIS SHEET.
8. SAFETY POSTS SHALL HAVE A HEIGHT OF 6 FEET OR BE EQUAL TO THE HEIGHT OF THE BACK SCRREN WALL OF THE ENCLOSURE. SAFETY POSTS SHALL BE PLACED A MINIMUM OF 4" FROM THE WALL.
9. USE CLASS "A" CONCRETE EXCEPT AS NOTED IN SAFETY POST DETAIL ON THIS SHEET.
10. STEEL REINFORCEMENT SHALL BE GRADE 40.
11. EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER ASTM D-1751.
12. EXTERIOR FINISH OF 6 FOOT MASONRY SCREEN WALLS SHALL BE COORDINATED ACHITECTURALLY WITH PRIMARY BUILDING FINSHES.
13. SOIL BELOW THE WALL FOOTER AND CONCRETE PAD SHALL BE COMPACTED TO A DEPTH OF 6 INCHES AND TO A MINIMUM DRY DENSITY OF 90% IN ACCORDANCE WITH ASTM D-2922 AND D-3017, AFTER ADJUSTMENT FOR ROCK CORRECTION.
14. STANDARDS FOR SOLID WASTE VEHICLE ACCESS ARE ADDRESSED IN PE-146-1.
15. STANDARDS FOR SINGLE, DOUBLE, AND TRIPLE-WIDE BIN ENCLOSURES ARE ADDRESSED IN PE-146-2 AND PE-146-3.

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ADOT TRACS NO. 000 MA PEO SS 60301C
CITY OF PEORIA PROJECT NO. P-0315

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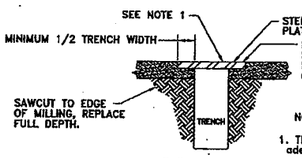
7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
CITY OF PEORIA
STANDARD DETAILS

DESIGNED BY: LJA
DRAWN BY: LJA/TEM
SCALE:
HORIZONTAL=
VERTICAL=
SHEET DT-14
SHEET 34 OF 104
DATE 11/2009
W.O.

CITY OF PEORIA STANDARD DETAIL PE-211
TRENCH PLATING

APPROVALS: CITY ENGINEER — DATE

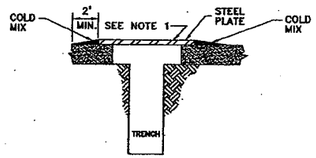


TYPE "A" PLATING

CITY POSTED SPEEDS OF GREATER THAN 25 MPH OR BUS & TRUCK ROUTE

NOTES

1. The contractor shall provide adequate overlap of plate on asphalt to assure no slippage of plate and no collapsing of trench.
2. "Posted Speed" does not include temporary construction signing.

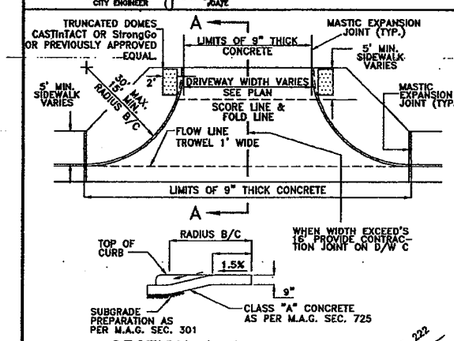


TYPE "B" PLATING

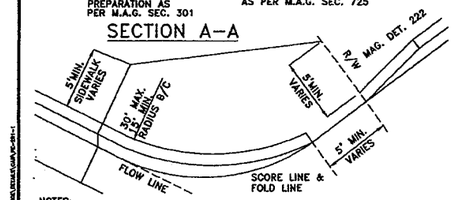
CITY POSTED SPEEDS OF 25 MPH AND UNDER

CITY OF PEORIA STANDARD DETAIL PE-251-1
RETURN TYPE DRIVEWAYS WITH ATTACHED SIDEWALK

APPROVALS: CITY ENGINEER — DATE



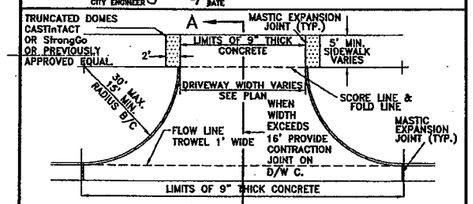
SECTION A-A

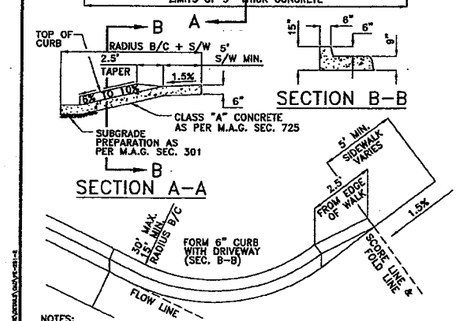


NOTES:
EXPANSION JOINT FILLER SHALL BE 1/2 INCH BITUMINUS TYPE PRE-FORMED EXPANSION JOINT FILLER, A.S.T.M. D-1751

CITY OF PEORIA STANDARD DETAIL PE-251-2
RETURN TYPE DRIVEWAYS WITH DETACHED SIDEWALK

APPROVALS: CITY ENGINEER — DATE





NOTES:
EXPANSION JOINT FILLER SHALL BE 1/2 INCH BITUMINUS TYPE PRE-FORMED EXPANSION JOINT FILLER, A.S.T.M. D-1751

CITY OF PEORIA STANDARD DETAIL PE-251-3
DRIVEWAY CRITERIA

APPROVALS: CITY ENGINEER — DATE

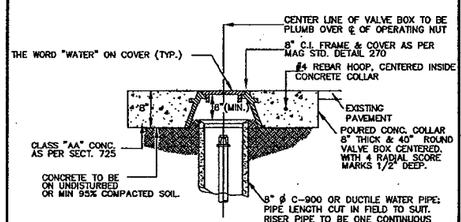
	RESIDENTIAL		COMMERCIAL INDUSTRIAL	
	SINGLE FAMILY	MULTI-FAMILY	SINGLE BUSINESS	MULTI-BUSINESS
STD. CONSTRUCTION DETAIL	MCDOT 2033	PE-251-1 OR PE-251-2	PE-251-1 OR PE-251-2	PE-251-1 OR PE-251-2
STANDARD WIDTH (TWO WAY)	16'	24'	30'	30'
MIN. WIDTH (TWO WAY)	16'	24'	24'	24'
MAX. WIDTH (TWO WAY)	24'	40' (2)	30'	40' (2)
MIN. SPACE BETWEEN DRIVES (INSIDE EDGE TO INSIDE EDGE)	10'	(4)	(4)	(4)
MIN. DIST. FROM INTERSECTION (NEAREST P.C. TO INSIDE EDGE)	25'	(5)	(5)	(5)
MAX. NO. OF DRIVES	1	2 PER FIRST 19 UNITS	2 PER STREET	1 PER 225' FRONTAGE
				2 PER 800' FRONTAGE
		3 PER 1200' FRONTAGE		3 PER 1200' FRONTAGE
		4 PER 2600' FRONTAGE		4 PER 2600' FRONTAGE

NOTES:

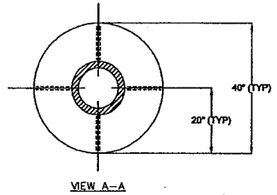
1. DETAIL PE-251-1 OR PE-251-2 MAY BE USED ON ARTERIAL STREETS.
2. (a) HIGH VOLUME DRIVEWAY WITH TWO OUTBOUND APPROACH LANES.
   (b) REQUIRES DECELERATION LANE UNLESS OTHERWISE APPROVED BY TRAFFIC ENGINEER.
   (c) BE INCREASED TO 46' WITH ADDITION OF RAISED MEDIAN.
3. ALL DRIVEWAY WINGS OR P.C.'S WILL BEGIN NO CLOSER THAN 5' FROM ANY PROPERTY LINE.
4. SEE TABLE 1 OF THE ACCESS MANAGEMENT GUIDELINES.
5. SEE TABLE 2 OF THE ACCESS MANAGEMENT GUIDELINES.

CITY OF PEORIA STANDARD DETAIL PE-270
WATER VALVE ADJUSTMENT

APPROVALS: CITY ENGINEER — DATE



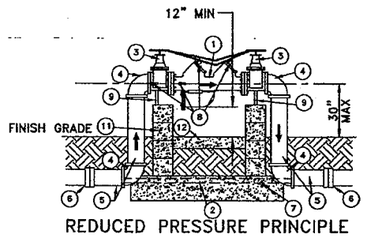
VALVE
NOT TO SCALE



VIEW A-A

CITY OF PEORIA STANDARD DETAIL PE-351-1
CROSS CONNECTION CONTROL 3 - INCHES & LARGER REDUCED PRESSURE BACKFLOW PREVENTER

APPROVALS: CITY ENGINEER — DATE — UTILITIES DIRECTOR — DATE



REDUCED PRESSURE PRINCIPLE

LIST OF MATERIALS:

1. APPROVED BACKFLOW ASSEMBLY.
2. COAT WITH COAL TAR EPOXY OR UTILIZE MANUFACTURER'S EPOXY COVERED SETTER.
3. RESILIANT SEATED GATE VALVE. (NON FIRE LINE) NON RISING STEM
4. 90° ELBOW (FLANGED D.I.P. 3-INCHES THRU 10-INCHES).
5. PIPE SPOOL (FLANGED D.I.P. 3-INCHES THRU 10-INCHES).
6. MECHANICAL JOINT
7. 3" X 3" X 1/4" STEEL ANGLE BOLT TO FLANGE AT EACH END OR UTILIZE MANUFACTURER'S SETTER (SUCH AS WILKINS, FEBCO, OR EQUIVALENT).
8. TEST COCK (4 REQUIRED).
9. ADJUSTABLE PIPE SUPPORT .
10. 8" X 8" X 16" CONCRETE BLOCK FILLED WITH MORTAR.
11. CONCRETE PAD FROM SUPPORT TO SUPPORT (4-INCHES DEEP X 12-INCHES WIDE).
12. CONSTRUCT 6" THICK CONCRETE BASE.

01/30/2008

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REDUCED SIZE DO NOT SCALE

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91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS
CITY OF PEORIA
STANDARD DETAILS

DESIGNED BY: LJA
DRAWN BY: LJA/TEM
SCALE: HORIZONTAL= VERTICAL=
SHEET DT-15
SHEET 35 OF 104
DATE 11/2009
W.O.

CITY OF PEORIA
STANDARD DETAIL PE-351-2
CROSS CONNECTION CONTROL 3 – INCHES & LARGER REDUCED PRESSURE BACKFLOW PREVENTER

APPROVALS: CITY ENGINEER DATE 2/1/08 — UTILITIES DIRECTOR DATE 2/12/08

NOTES:

A. CONTACT CITY OF PEORIA ENVIRONMENTAL/INDUSTRIAL USERS DIVISION FOR LIST OF APPROVED ASSEMBLIES.

B. THE FOUR TEST COCKS SHALL BE FITTED WITH BRASS PLUGS OR TEST COCK ADAPTERS AND CAPS. TEST COCKS SHALL BE USED FOR TESTING ONLY.

C. INSTALLATION SHALL BE PROTECTED BY SAFETY POSTS (BOLLARDS) IF NEAR TRAFFIC AREAS PER M.A.G. STANDARD DETAIL 140.

D. FINISHED MATERIAL UNDER BACKFLOW ASSEMBLY SHALL BE ADEQUATE TO PREVENT SUBSIDENCE OF ASSEMBLY.

E. ASSEMBLY SHALL BE PAINTED TAN OR COLOR TO MATCH BACKGROUND. DO NOT PAINT THE NAME PLATE OR ANY BRASS PARTS OF THE ASSEMBLY.

F. INSPECTIONS REQUIRED FOR: PIERS, THRUSTBLOCKS, ANGLE STEEL AND/OR SETTER ASSEMBLY. (BY CITY OF PEORIA CROSS CONNECTION STAFF)

G. BOTTOM OF LOWEST POINT ON ASSEMBLY TO BE 12–INCHES MIN. AND 30–INCHES MAX. TO ASSEMBLY CENTERLINE ABOVE CONCRETE PAD.

H. MINIMUM CLEARANCE FROM FRONT OF TEST COCKS TO NEAREST PERMANENT SURFACE SHALL BE 12–INCHES.

I. ASSEMBLY MUST BE INSPECTED BY CITY OF PEORIA ENVIRONMENTAL DIVISION AND TESTED BY AN AUTHORIZED & CERTIFIED TESTER.

J. PLUMBING PERMIT REQUIRED FOR INSTALLATION.

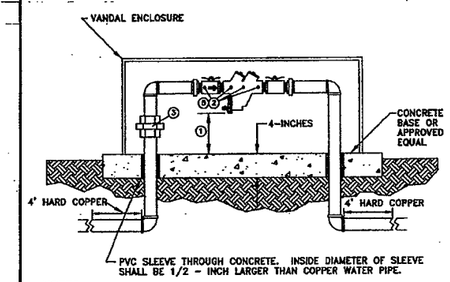
K. THRUST BLOCK PER MAG STANDARD DETAIL 380 IF SETTER IS NOT USED.

01/30/2008

CITY OF PEORIA
STANDARD DETAIL PE-352-1
CROSS CONNECTION CONTROL 2 1/2 – INCHES & SMALLER REDUCED PRESSURE BACKFLOW PREVENTER

APPROVALS: CITY ENGINEER DATE 2/1/08 — UTILITIES DIRECTOR DATE 2/12/08

OUTSIDE INSTALLATION



NOTES:

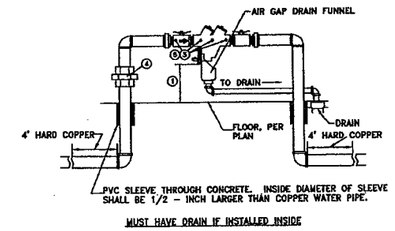
1. BOTTOM OF ASSEMBLY MUST BE AT LEAST 12 – INCHES ABOVE THE SURFACE IMMEDIATELY BELOW THE RELIEF VALVE OPENING BUT NO MORE THAN 30 – INCHES ABOVE CONCRETE PAD.
2. MINIMUM CLEARANCE IN FRONT OF TEST COCKS TO NEAREST PERMANENT SURFACE SHALL BE 12 – INCHES.
3. MINIMUM OF ONE UNION REQUIRED, TYPE "L" HARD COPPER REQUIRED.
4. ASSEMBLIES MUST BE INSPECTED BY THE CITY OF PEORIA ENVIRONMENTAL DIVISION AND TESTED BY A CITY RECOGNIZED TESTER.
5. ALL TEST COCKS SHALL HAVE BRASS PLUGS OR TEST COCK ADAPTERS AND CAPS IN PLACE. TEST COCKS SHALL BE USED FOR TESTING ONLY.
6. A PLUMBING PERMIT IS REQUIRED FOR INSTALLATION.
7. ASSEMBLIES MUST BE INSTALLED AS DESIGNED AND CONSTRUCTED BY THE MANUFACTURER.
8. VANDAL ENCLOSURE TO BE "LOCKBOX" OR APPROVED EQUAL.

01/30/2008

CITY OF PEORIA
STANDARD DETAIL PE-352-2
CROSS CONNECTION CONTROL 2 1/2 – INCHES & SMALLER REDUCED PRESSURE BACKFLOW PREVENTER

APPROVALS: CITY ENGINEER DATE 2/1/08 — UTILITIES DIRECTOR DATE 2/12/08

INSIDE INSTALLATION



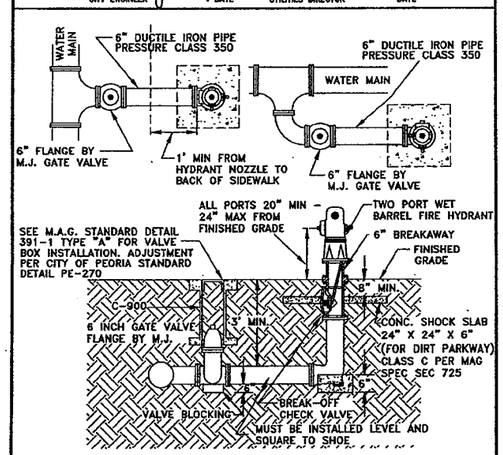
NOTES:

1. BOTTOM OF ASSEMBLY MUST BE AT LEAST 12 – INCHES ABOVE THE FINISHED FLOOR IMMEDIATELY BELOW THE RELIEF VALVE OPENING.
2. ASSEMBLIES INSTALLED ABOVE 5–FEET FROM THE FLOOR MUST COMPLY WITH CURRENT IPC '06.
3. MINIMUM CLEARANCE IN FRONT OF TEST COCKS TO NEAREST PERMANENT SURFACE SHALL BE 12 – INCHES.
4. MINIMUM OF ONE UNION REQUIRED, TYPE "L" HARD COPPER REQUIRED.
5. ASSEMBLIES MUST BE INSPECTED BY THE CITY OF PEORIA ENVIRONMENTAL/ INDUSTRIAL USERS DIVISION AND TESTED BY A CITY RECOGNIZED TESTER.
6. ALL TEST COCKS SHALL HAVE BRASS PLUGS OR TEST COCK ADAPTORS AND CAPS IN PLACE. TEST COCKS SHALL BE USED FOR TESTING ONLY.
7. A PLUMBING PERMIT IS REQUIRED FOR INSTALLATION.
8. CONTACT CITY OF PEORIA ENVIRONMENTAL/INDUSTRIAL USERS DIVISION FOR LIST OF APPROVED ASSEMBLIES.
9. ASSEMBLIES MUST BE INSTALLED AS SHIPPED.
10. PIPING TO COMPLY TO CURRENT COP STANDARDS.

01/31/2008

CITY OF PEORIA
STANDARD DETAIL PE-360-1
TWO PORT WET BARREL FIRE HYDRANT INSTALLATION

APPROVALS: CITY ENGINEER DATE 2/1/08 — UTILITIES DIRECTOR DATE 3/27/08

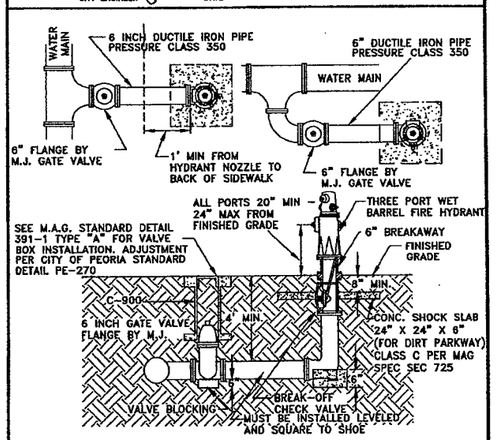


1. ALL JOINTS SHALL BE RESTRAINED, INCLUDING MAIN AT TEE ENDS..
2. APPROVED HYDRANTS INCLUDE: SEE DETAIL PE-101
3. BREAK-OFF CHECK VALVE SHALL BE LONG BEACH IRON WORKS, INC. – MODEL LB400 OR APPROVED EQUAL.
4. THE 6 INCH GATE VALVE SHALL BE FLANGED BY MECHANICAL JOINT.
5. NO VALVES ARE TO BE IN THE CONCRETE.
6. THE 4 1/2" PORT ON THE HYDRANT SHALL BE INSTALLED FACING THE STREET.
7. MINIMUM 3 FOOT DIAMETER CLEARANCE AROUND HYDRANT.
8. THE HYDRANT SHALL HAVE 1 – 2 1/2" PORT, AND 1 – 4 1/2" PORT.
9. NATIONAL STANDARD THREADS REQUIRED ON ALL CONNECTIONS.
10. INSTALL FIRE HYDRANT MARKER PER PEORIA STANDARD DETAIL 271.

03/14/2008

CITY OF PEORIA
STANDARD DETAIL PE-360-2
THREE PORT WET BARREL FIRE HYDRANT INSTALLATION

APPROVALS: CITY ENGINEER DATE 2/1/08 — UTILITIES DIRECTOR DATE 3/27/08

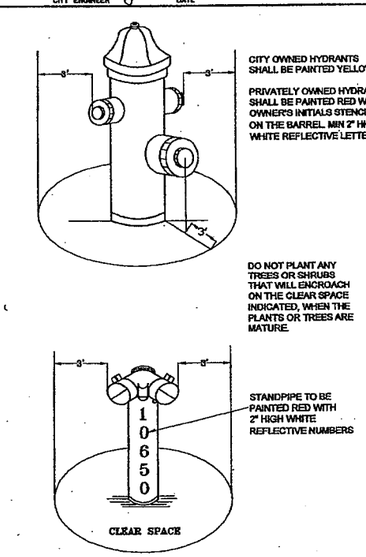


1. ALL JOINTS SHALL BE RESTRAINED, INCLUDING MAIN AT TEE ENDS.
2. APPROVED HYDRANTS INCLUDE: SEE DETAIL PE-101
3. BREAK-OFF CHECK VALVE SHALL BE LONG BEACH IRON WORKS, INC. – MODEL LB400 OR APPROVED EQUAL.
4. THE 6 INCH GATE VALVE SHALL BE FLANGED BY MECHANICAL JOINT.
5. NO VALVES ARE TO BE IN THE CONCRETE.
6. THE 4 1/2" PORT ON THE HYDRANT SHALL BE INSTALLED FACING THE STREET.
7. MINIMUM 3 FOOT DIAMETER CLEARANCE AROUND HYDRANT.
8. THE HYDRANT SHALL HAVE 2 – 2 1/2" PORTS, AND 1 – 4 1/2" PORT.
9. NATIONAL STANDARD THREADS REQUIRED ON ALL CONNECTIONS.
10. INSTALL FIRE HYDRANT MARKER PER PEORIA STANDARD DETAIL 271.

03/17/2006

CITY OF PEORIA
STANDARD DETAIL PE-361
HYDRANT/FDC CLEARANCES

APPROVALS: CITY ENGINEER DATE 2/12/07



06/23/2007

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CITY OF PEORIA PROJECT NO. P–0315

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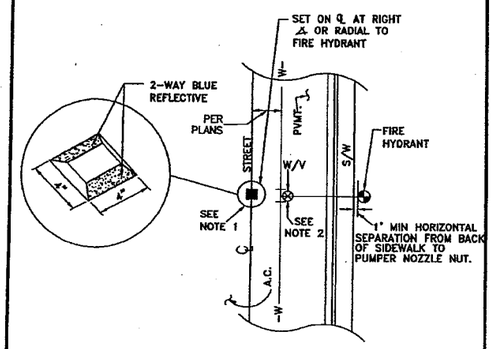
91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
CITY OF PEORIA
STANDARD DETAILS

DESIGNED BY:	LJA
DRAWN BY:	LJA/TEM
SCALE: HORIZONTAL= VERTICAL=	
SHEET	DT-16
SHEET	36 OF 104
DATE	11/2009
W.O.	

CITY OF PEORIA STANDARD DETAIL PE-362
FIRE HYDRANT MARKER LOCATION

APPROVALS: CITY ENGINEER — DATE 8/27/07; FIRE CHIEF — DATE 8-20-07

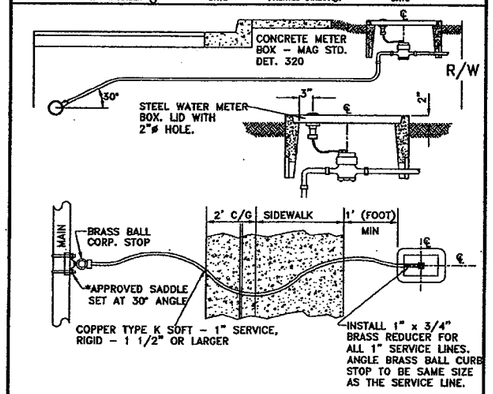


FIRE HYDRANT MARKER LOCATION

1. CENTER MARKER ON LOCAL STREETS.
2. PLACE MARKER OVER TEE ON COLLECTORS & ARTERIALS.

CITY OF PEORIA STANDARD DETAIL PE-363
WATER METER BOX LOCATION AND CONSTRUCTION

APPROVALS: CITY ENGINEER — DATE 2/27/08; UTILITIES DIRECTOR — DATE 3/27/08

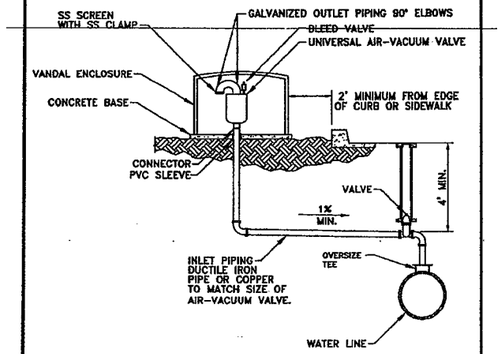


NOTES:

1. 30" MINIMUM COVER IS REQUIRED FOR SERVICE LINES.
2. NO COUPLINGS ALLOWED ON SERVICE LINE. (SOFT COPPER)
3. FOR CUL-DE-SAC LOTS ONLY, THE WATER METER SHALL BE PLACED AT THE BACK OF THE SIDEWALK.
4. ALL WATER METER BOXES TO BE LEVEL WITH THE BACK OF THE SIDEWALK.
5. ALLOWABLE SERVICE LINE SIZES: 1", 1-1/2" & 2".
6. ALL MATERIAL SHALL CONFORM TO THE LATEST MAG SPECIFICATIONS.
7. ACCEPTABLE SADDLES INCLUDE: MUELLER: BR2B
   FORD: 202B
   JONES: J979
   A.Y. MCDONALD: 3825
8. BEDDING: SAND OR CLEAN NATIVE 3/8" MINUS.

CITY OF PEORIA STANDARD DETAIL PE-395
UNIVERSAL AIR-VACUUM VALVE

APPROVALS: CITY ENGINEER — DATE 2/14/08; UTILITIES DIRECTOR — DATE 2/14/08



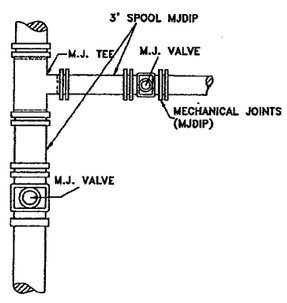
NOTES:

1. VANDAL ENCLOSURE TO BE "LOCKBOX" OR APPROVED EQUAL.
2. LINE FROM MAIN TO AIR RELEASE VALVE TO BE INSTALLED WITH POSITIVE SLOPE TO PREVENT BLOCKAGE.
3. CONCRETE BASE - 4 - INCH THICK WITH NUMBER 4 REBAR @ 12 - INCH EACH WAY. BASE DIMENSIONS SHALL BE 12 - INCHES GREATER THAN INSIDE DIMENSIONS OF VANDAL ENCLOSURE.
4. FIELD PAINT ALL FITTINGS AND VANDAL ENCLOSURE "DESERT TAN."
5. SIZE OF UNIVERSAL AIR-VACUUM VALVE AND APPURTENANCES SHALL BE SPECIFIED BY THE DESIGN ENGINEER.

01/30/2008

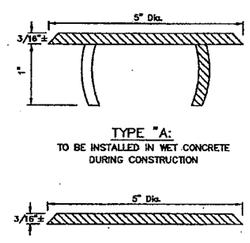
CITY OF PEORIA STANDARD DETAIL PE-398
TYPICAL VALVE LOCATION

APPROVALS: CITY ENGINEER — DATE 2/27/07; UTILITIES DIRECTOR — DATE 4/26/07



CITY OF PEORIA STANDARD DETAIL PE-559-1
STORM DRAIN INLET MARKER

APPROVALS: CITY ENGINEER — DATE 2/27/07



TYPE "A:
TO BE INSTALLED IN WET CONCRETE DURING CONSTRUCTION

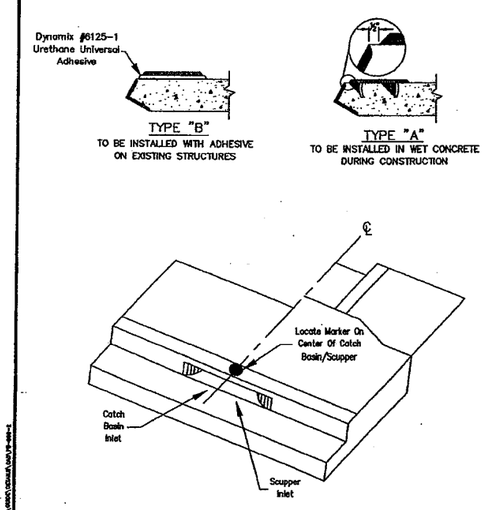
TYPE "B"
TO BE INSTALLED WITH ADHESIVE ON EXISTING STRUCTURES

NOTES

1. Material: Cast Aluminum
2. The Total Width Of Individual Letters To Be Such That Letters And Words Are Equally Spaced And Balanced.
3. Letters To Be 1/2" In Height. Type Of Letters To Be Submitted For Approval.

CITY OF PEORIA STANDARD DETAIL PE-559-2
STORM DRAIN INLET MARKER ON CATCH BASIN/SCUPPER

APPROVALS: CITY ENGINEER — DATE 2/27/07



TYPE "B"
TO BE INSTALLED WITH ADHESIVE ON EXISTING STRUCTURES

TYPE "A"
TO BE INSTALLED IN WET CONCRETE DURING CONSTRUCTION

NOTE:
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REDUCED SIZE DO NOT SCALE

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ADOT TRACS NO. 0000 MA PEO SS 60301C
CITY OF PEORIA PROJECT NO. P-0315

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7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS
CITY OF PEORIA
STANDARD DETAILS

DESIGNED BY:	LJA
DRAWN BY:	LJA/TEM
SCALE: HORIZONTAL= VERTICAL=	
SHEET	DT-17
SHEET	37 OF 104
DATE	11/2009
W.O.	

NOTE:
THE ZEROS IN PARENTHESIS (0, 0.0 & 0.00) IN THE HEADING OF SOME OF THE COLUMNS ARE THE RECOMMENDED PRECISION OF THE VALUE TO BE ENTERED IN THE COLUMN.

NOTE:
FOR PIPE CULVERT PLACEMENT SEE STANDARD DRAWING C-13.15

NOTE:
PIPE OPTIONS SELECTED ARE THOSE REQUIRED TO MEET MINIMUM SERVICE LIFE.
SHADED PIPE OPTION FIELDS ARE NOT ALLOWABLE ALTERNATES.

CSP - CORRUGATED STEEL PIPE
CAP - CORRUGATED ALUMINUM PIPE
RCP - REINFORCED CONCRETE PIPE
NRCP - NON-REINFORCED CONCRETE PIPE
NRCIPCP - NON-REINFORCED CAST-IN-PLACE CONCRETE PIPE
CHDPEPP - CORRUGATED HIGH DENSTIY POLYETHYLENE PLASTIC PIPE

DESCRIPTION								CSP									CAP			RCP	NRCP	NRCIPCP	CHDPEPP	END TREATMENT																QUANTITIES	
				In.	In.	Ft.	Degree	In.	Coating								In.					In.		Each		Catch basin, Manhole, Headwall & Junction Structure													Cubic Yard	
Station	Plan Ref No.	Controlling Fill Height Range	Size, Corrugated	Size, Smooth	Length (0)	Skew (0)	Corrugation	Wall Thickness (0.00)	Zinc	Blt. Coated Zinc	Aluminum	Blt. Coated Aluminum	Corrugation	Wall Thickness (0.00)	Uncoated	Blt. Coated	Class - Non Trench	Class - Trench	Class	Min Wall Thickness (0)	AASHTO M-294 Type C	AASHTO M-294 Type S	C-13.20 & C-13.25	Detail - Size, (In) Manhole	Standard or Detail	End Sec	Ea	S-Single / D-Double	Location	V (0.0)	L Wing (0.0)	L 18" Slotted Drn (0)	L 24" Slotted Drn (0)	Type	Elev. (0.00)	Depth (In.)	L (0.0) (Ft.)	Pipe Exc (0)	Pipe Bk-fl (0) C-13.15	Drn Exc (0)	Berm/Dike Emb (0)	REMARKS
Olive Avenue 63+50 Lt	1	4		18	10												III	III	2					MAG 531			Lt	9.4						2	7.7	18	2				CONNECT TO RCBC
Olive Avenue 66+26 Lt	2	3		18	52												II	II	1					P1569-1	S		Rt	4.5	17.0					2	21.2	43	10				CONNECT TO EXIST MANHOLE
Olive Avenue 66+26 Rt	3	3		18	49												II	II	1					P1569-1	S		Rt	4.5	17.0					2	21.2	44	10				CONNECT TO EXIST MANHOLE
Olive Avenue 67+09 Rt	4	3		18	22												II	II	1					P1569-1	S		Rt	7.6	10.0					2	14.2	22	5				CONNECT TO EXIST STORM DRAIN
Olive Avenue 68+23 Lt	5	3		18	7	10 Lt											II	II	1					MAG 531			Lt	3.6						2	6.5	5	2				CONNECT TO EXIST STORM DRAIN
Olive Avenue 73+42 Rt	6	3		18	37												II	II	1					P1569-1	S		Rt	5.3	17.0					2	21.2	28	7				CONNECT TO EXIST STORM DRAIN
91st Avenue 54+71 Rt	7	4		18	20												III	III	2					MAG 531			Rt	3.7						2	6.5	18	4				CONNECT TO EXIST STORM DRAIN
91st Avenue 56+25 Rt	8	4		18	7												III	III	2					P1569-1	S		Rt	8.3	17.0					2	21.2	10	2				CONNECT TO EXIST STORM DRAIN
Olive Avenue 62+75 Lt	9	2		15	18												II	II	1					MAG 535			Lt	7.0								18	3				CONNECT TO EXIST STORM DRAIN
Sheet Total					222																															206	45				

REV. DATE: 01-31-2002

FILL HEIGHT RANGE TABLE (Ft.)													
RANGE NO.		1	2	3	4	5	6	7	8	9	10	11	12
FILL	>	1	3	5	8	11	15	20	25	30	40	55	70
HEIGHT (Ft.)	≤	3	5	8	11	15	20	25	30	40	55	70	90
SHOULD FIELD CONDITIONS VARY FROM THE RANGE INDICATED, CONTACT DESIGN FOR RE-EVALUATION OF PIPE DESIGN REQUIREMENTS.													

PIPE CORRUGATION			
A	2⅔x½	D	6x2
B	3x1	E	3x1 or 9x2½
C	9x2½		

REDUCED SIZE
DO NOT SCALE

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ADOT TRACS NO. 0000 MA PEO SS60301C
CITY OF PEORIA PROJECT NO. P-0315

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7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500
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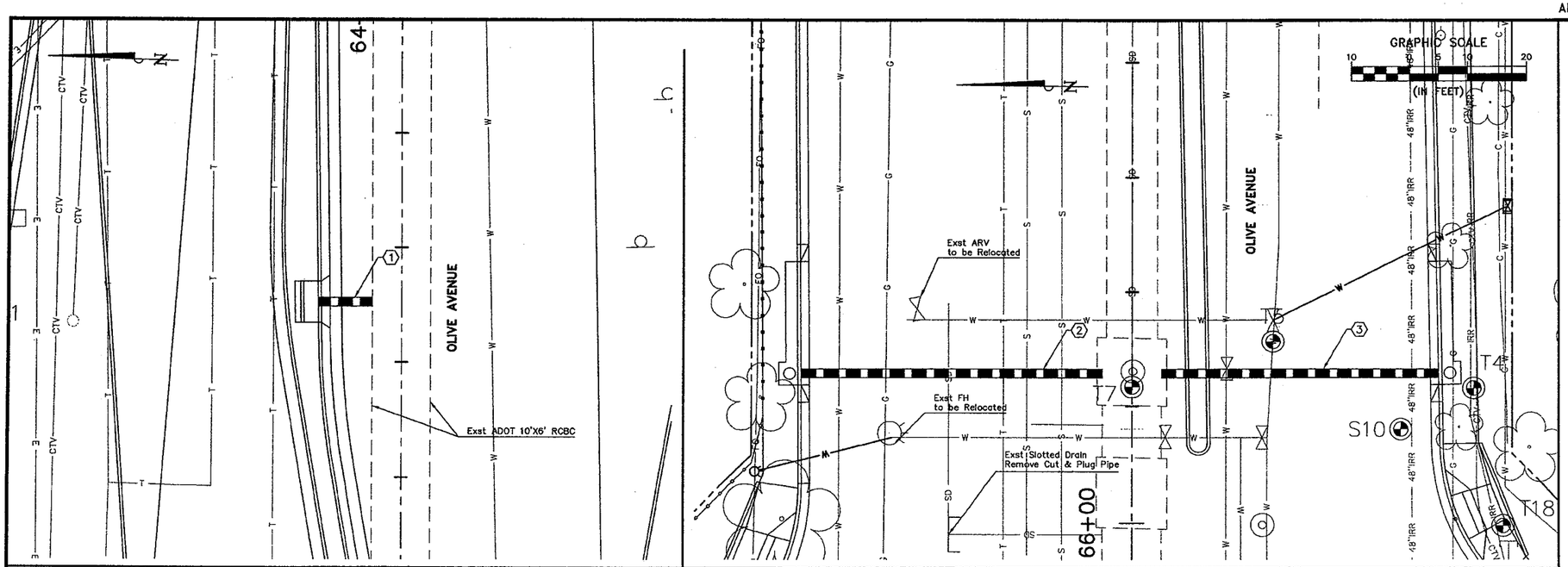
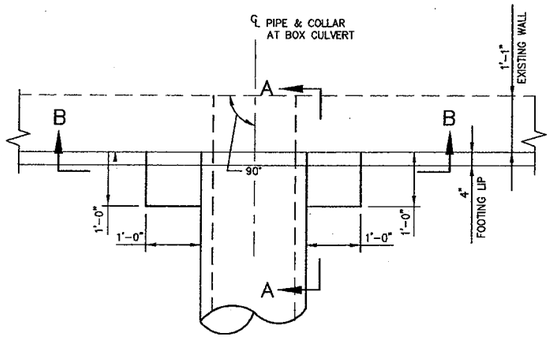
91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS
PIPE SUMMARY SHEET

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
31673
RAJESH S. CHRISTIAN
Date Signed 12-2-09
ARIZONA, U.S.A.
Expires 09/30/2010

DESIGNED BY: LJA
DRAWN BY: LJA/TEM
SCALE:
HORIZONTAL=
VERTICAL=
SHEET SD-01
SHEET 38 OF 104
DATE 11/2009
W.O.

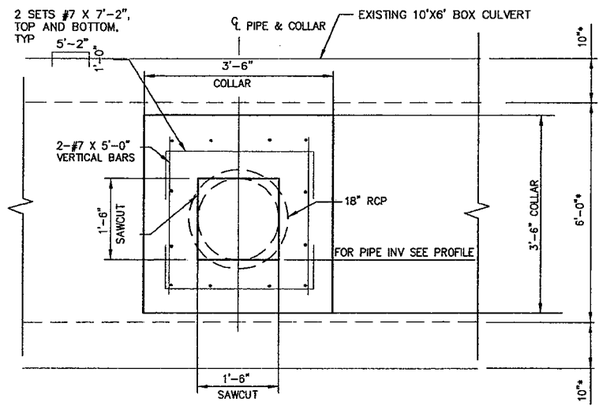




NOTE:
1. REINFORCING NOT SHOWN FOR CLARITY IN THIS VIEW

18" RCP CONNECTION TO EXST BOX CULVERT

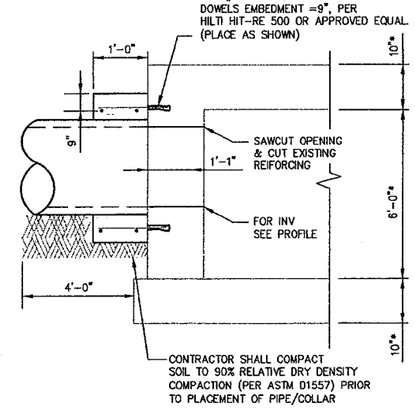
NTS



SECTION B-B

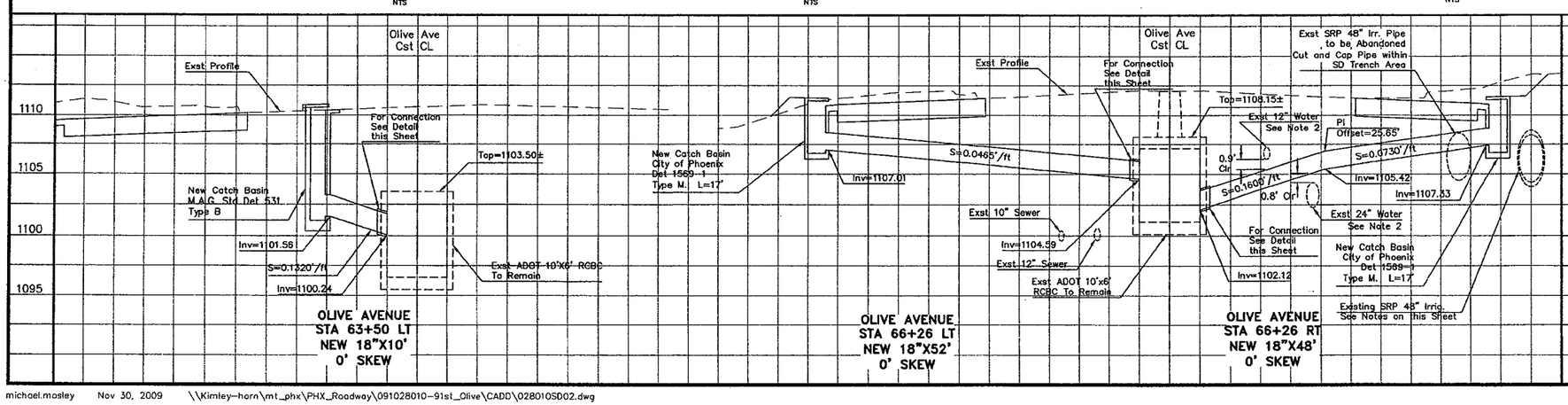
NTS

* ELEVATIONS AND DIMENSIONS SHOWN ARE BASED ON AS-BUILT DRAWINGS. CONTRACTOR SHALL VERIFY ACTUAL DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION OF RCP CONNECTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.



SECTION A-A

NTS



RCP TO BOX CULVERT NOTES

1. SUBGRADE BELOW PIPE COLLAR SHALL BE COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR).

2. CONSTRUCTION SEQUENCE
   A. SAWCUT SQUARE OPENING IN BOX CULVERT WALL EQUAL TO THE INNER DIAMETER OF PIPE SHOWN.

   B. DRILL AND EPOXY BARS INTO WALLS AS SHOWN.

   C. PLACE OUTSIDE/ADDITIONAL REINFORCING IN COLLAR.

   D. SUPPORT PIPE AND FORM/POUR COLLAR.

REDUCED SIZE
DO NOT SCALE

Notes:
1. All Concrete Collars and Connecation to Existing Pipes/Box Culvert Shall be Incidental to Contract Item.

2. Construct Concrete Encasement Per MAG Det 507 and MAG Section 610.5.5 When Clearance to Existing Utilities is less than 2 Feet. It Shall be Incidental to Contract Items.

3. The Contractor Shall form the Catch Basin while Protecting the Existing SRP Pipe. If very close, a Felt Paper will need to be inserted. If not enough Clearance, the Catch Basin may need to be Modified.

4. The location of Existing Pipe & Box Culverts, Utilities and their Type and Size are Approximate. The Contractor shall be Responsible for the Determination of the Exact Location of all Existing Utilities Prior to Construction.

5. It is also the Contractor's Responsibility to Protect all Existing Utilities in Place Unless Otherwise Noted or Specified.

POTHOLE LOCATION
SEE POTHOLE DATA FOR DETAILS
T=TBE GROUP
S=SAF-R-DIG

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ADOT TRACS NO. 000 MA PEO SS60301C
CITY OF PEORIA PROJECT NO. P-0315

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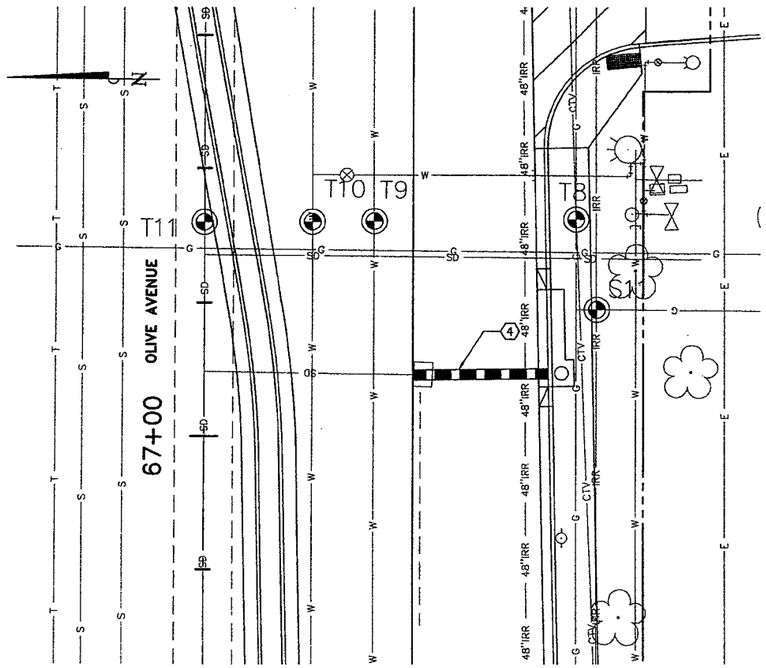
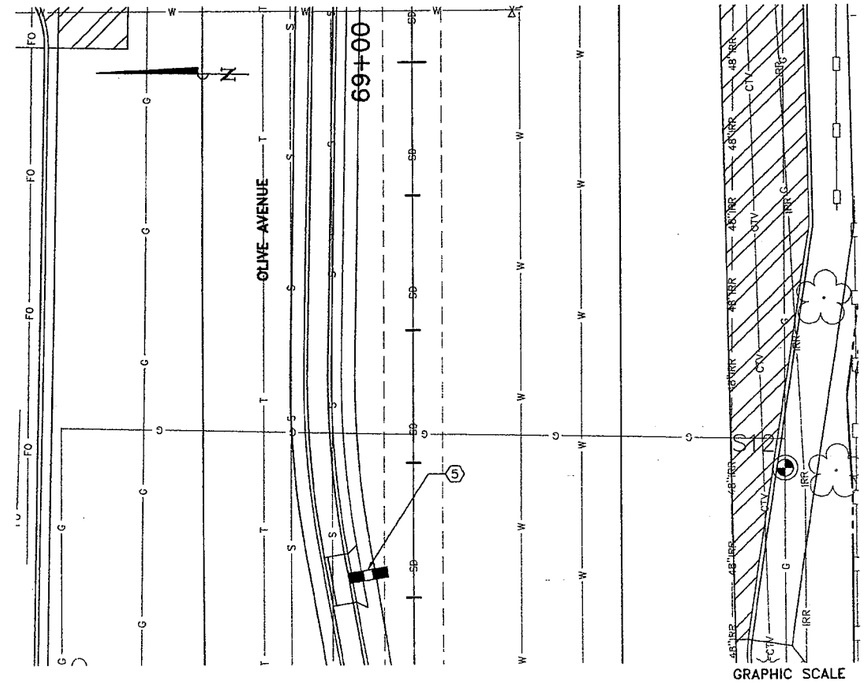
91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
STORM DRAIN PLAN AND PROFILE

Registered Professional Engineer (Civil)
34673
RAJESH S. CHRISTIAN
Date Signed 12-3-09
ARIZONA, U.S.A.
Expires 09/30/2010

DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= 20 VERTICAL=	
SHEET	SD-02
SHEET	39 OF 104
DATE	11/2009
W.O.	





GRAPHIC SCALE
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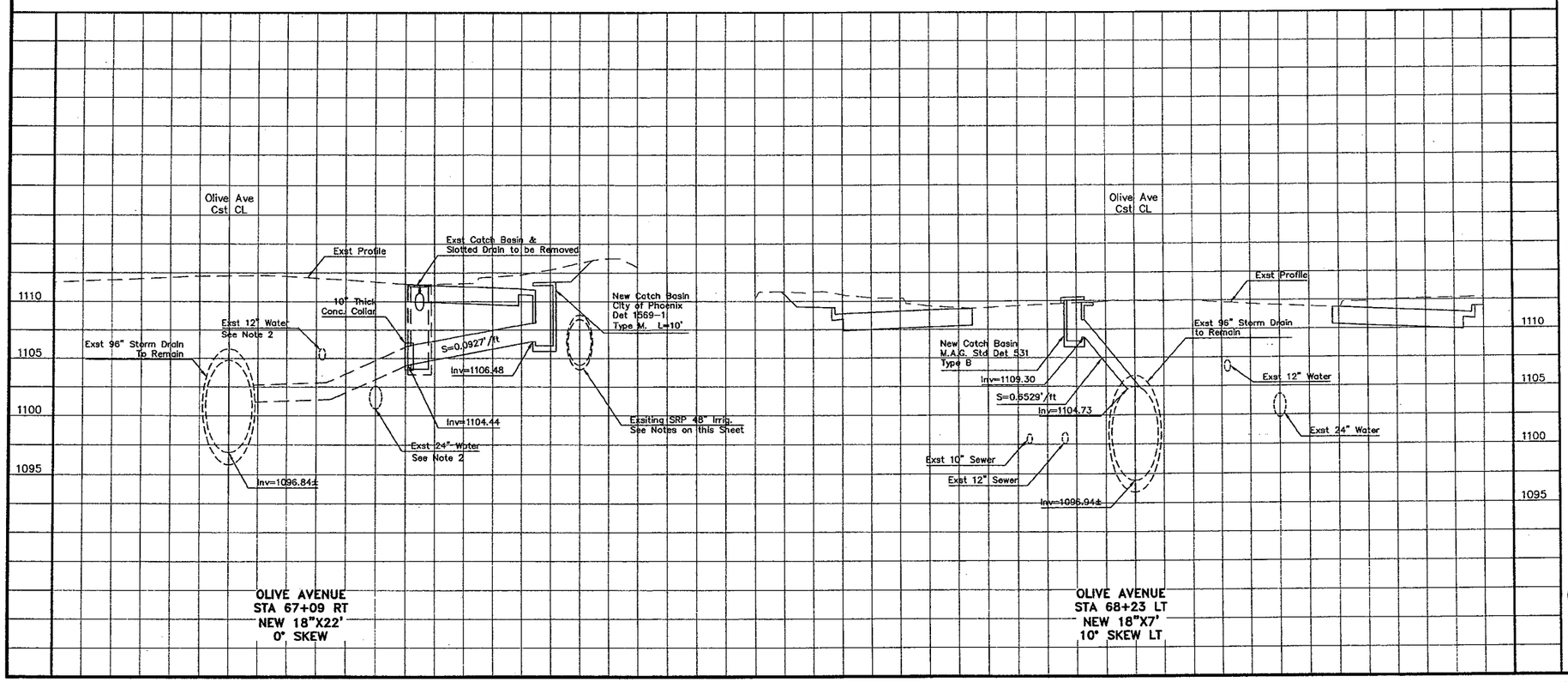
(IN FEET)



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SS60301C

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PROJECT NO. P-0315

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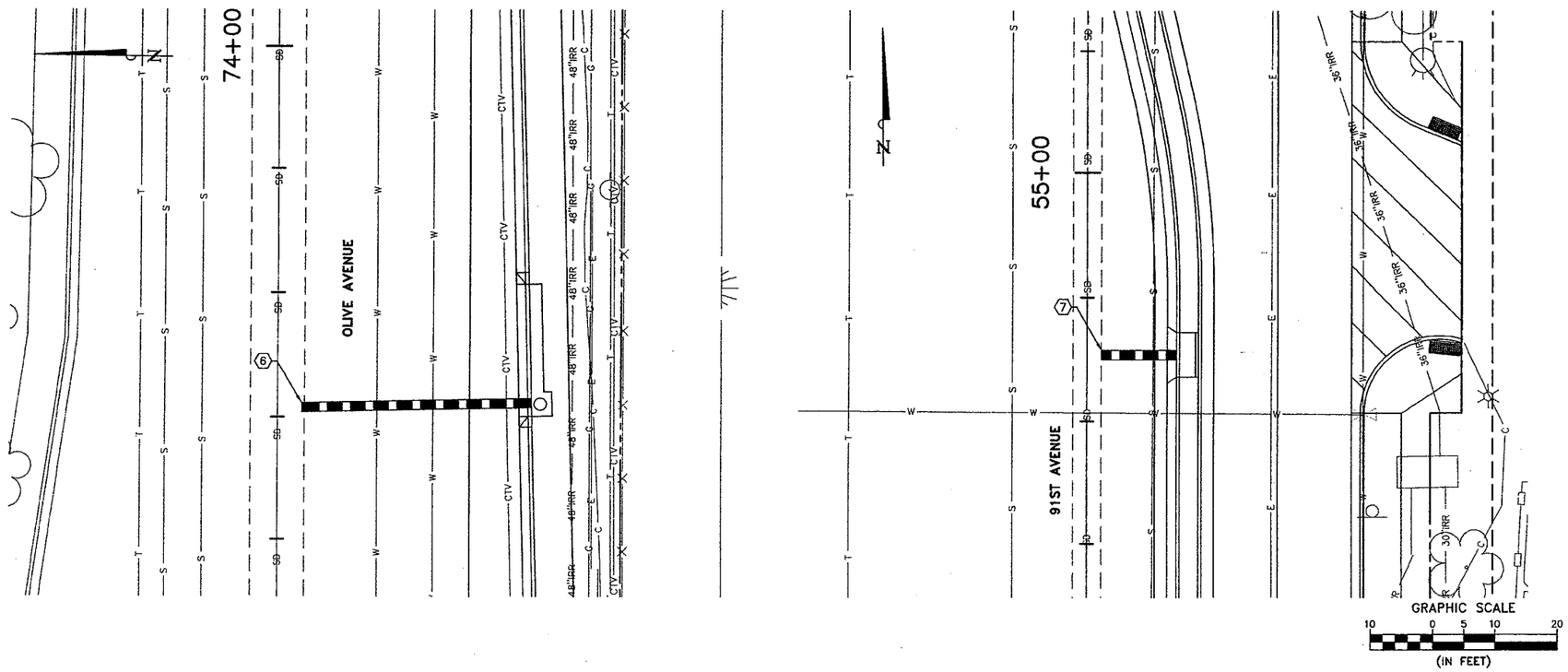
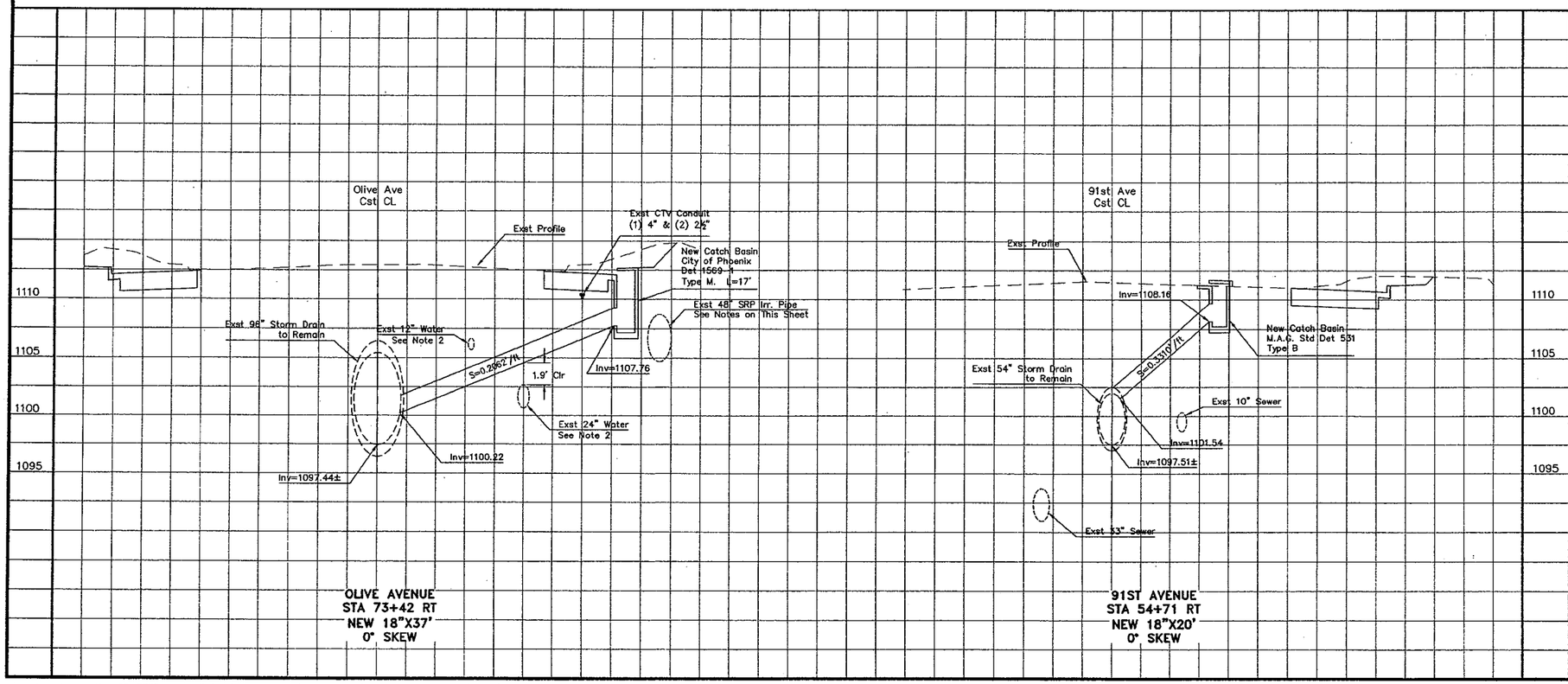
91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS STORM DRAIN PLAN AND PROFILE

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO. 31673
RAJESH S. CHRISTIAN
Date Signed 12-3-09
ARIZONA, U.S.A.
Expires 09/30/2010

DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= 20 VERTICAL=	
SHEET	SD-03
SHEET	40 OF 104
DATE	11/2009
W.O.	





REDUCED SIZE
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000 MA PEO
SS60301C
CITY OF PEORIA
PROJECT NO. P-0315

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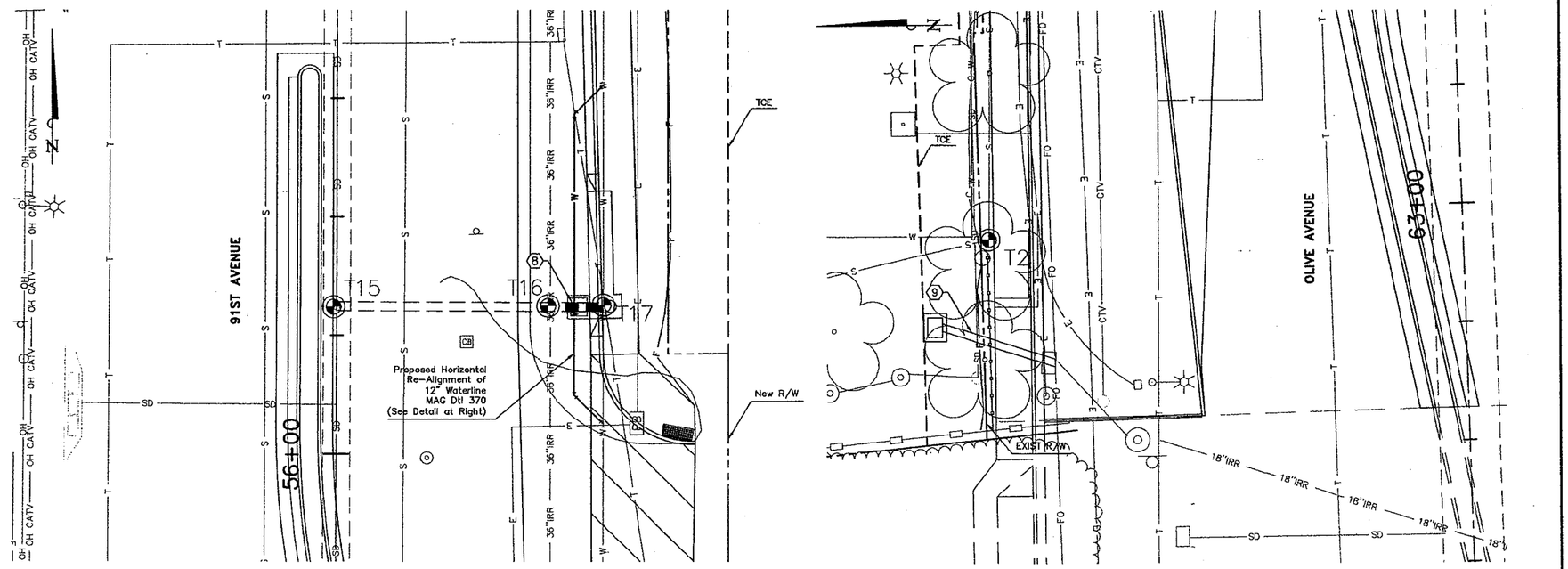
7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
STORM DRAIN PLAN AND PROFILE

Registered Professional Engineer (Civil)
21673
RAJESH S. CHRISTIAN
Date Signed 12-3-09
ARIZONA, U.S.A.
Expires 09/30/2010

DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE:	
HORIZONTAL= 20	
VERTICAL=	
SHEET	SD-04
SHEET	41 OF 104
DATE	11/2009
W.O.	



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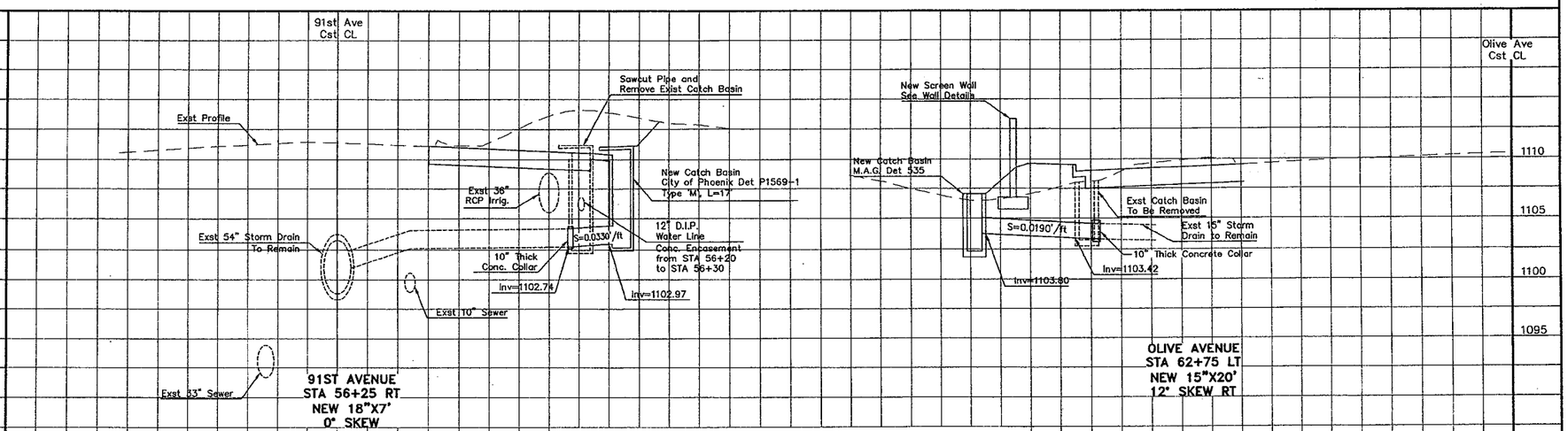
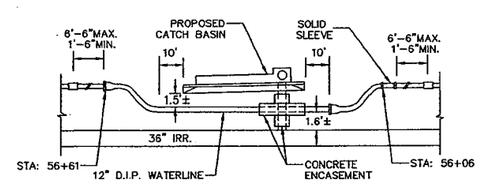
(IN FEET)





HORIZONTAL RE-ALIGNMENT OF WATERLINE
91ST AVENUE – STA 56+06 TO 56+61
NTS

REDUCED SIZE
DO NOT SCALE

Water Relalignment Notes:
1. All Joints Shall be Mechanically Restained

Notes:
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ADOT TRACS NO. 000 MA PEO SS60301C
CITY OF PEORIA PROJECT NO. P-0315

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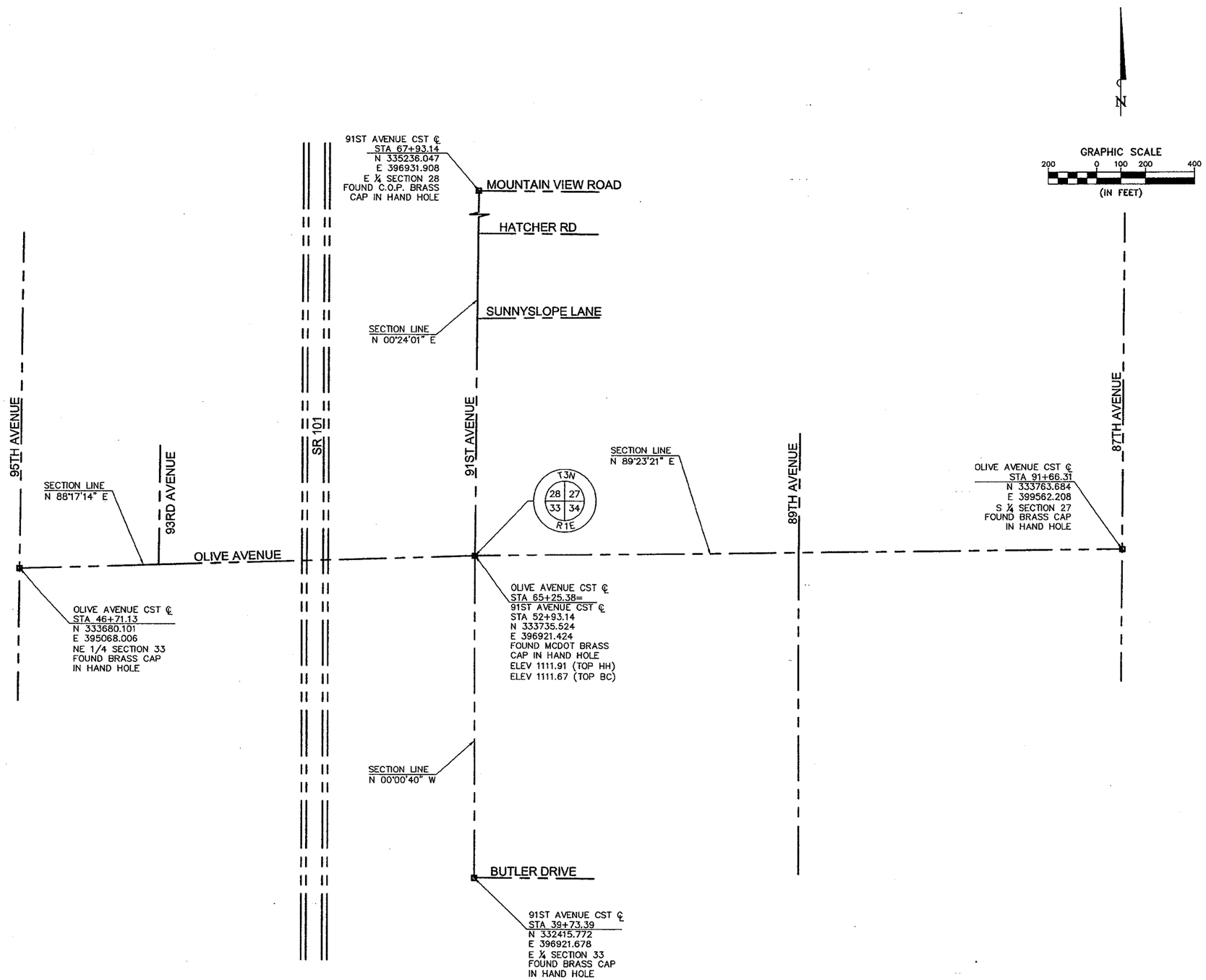
7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS STORM DRAIN PLAN AND PROFILE

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO. 31673
RAJESH S. CHRISTIAN
DATE SIGNED 11-30-09
ARIZONA, U.S.A.
Expires 09/30/2010

DESIGNED BY:	LJA
DRAWN BY:	LJA/TEM
SCALE:	HORIZONTAL= 10 VERTICAL= 5
SHEET	SD-05
SHEET	42 OF 104
DATE	11/2009
W.O.	



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ADOT TRACS NO.
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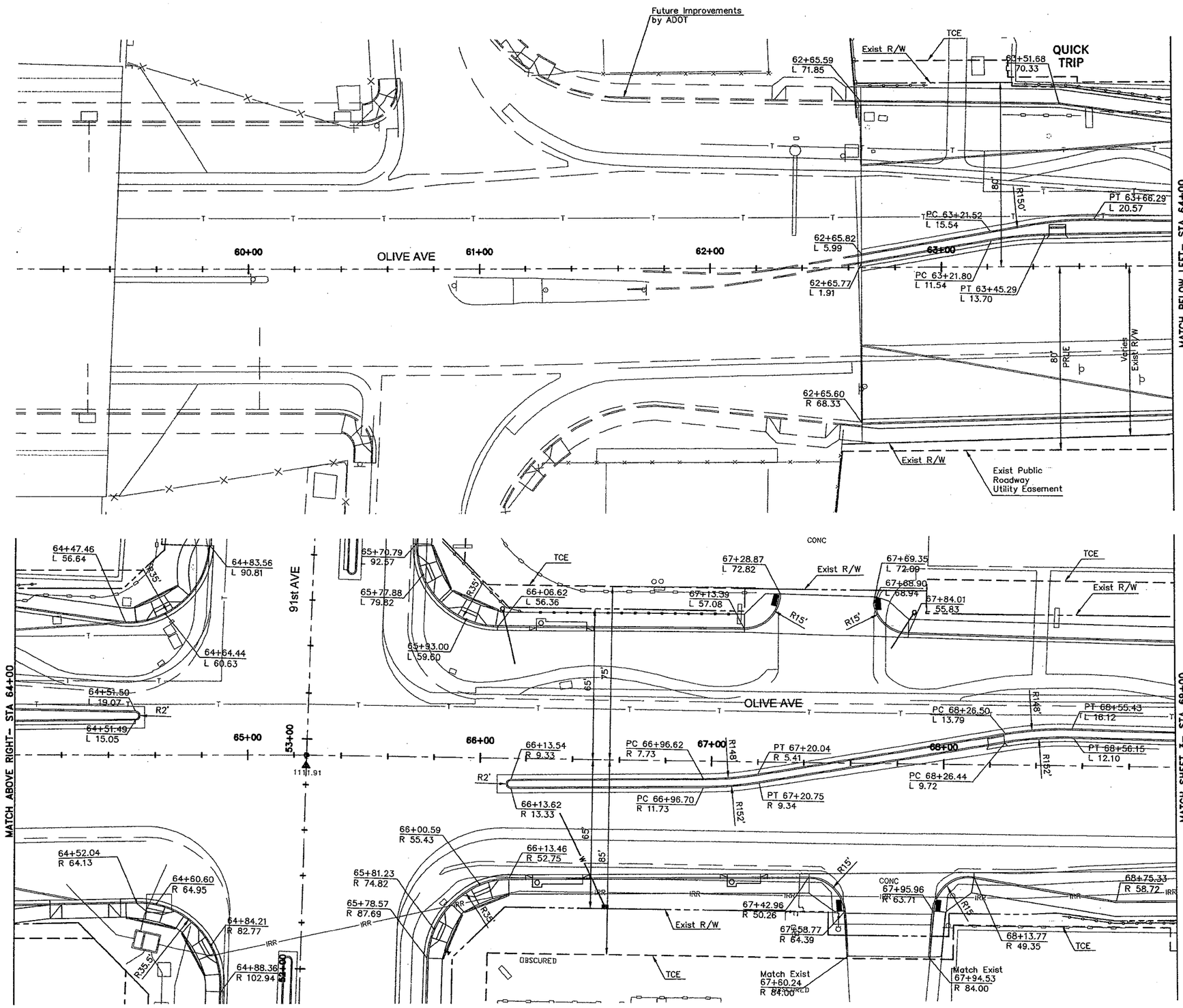
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS GEOMETRIC DATA SHEET

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
31673
RAJESH S. CHRISTIAN
Date Signed 12-2-09
ARIZONA, U.S.A.
Expires 09/30/2012

DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= 200 VERTICAL=	
SHEET	GL-01
SHEET	43 OF 104
DATE	11/2009
W.O.	



REDUCED SIZE
DO NOT SCALE

NOTE:

ALL STATIONS AND OFFSETS ARE MEASURED TO FACE OF CURB

ALL STATIONS AND OFFSETS ARE BASED ON OLIVE AVE. CST. ℄

ALL RADII ARE MEASURED TO BACK OF CURB

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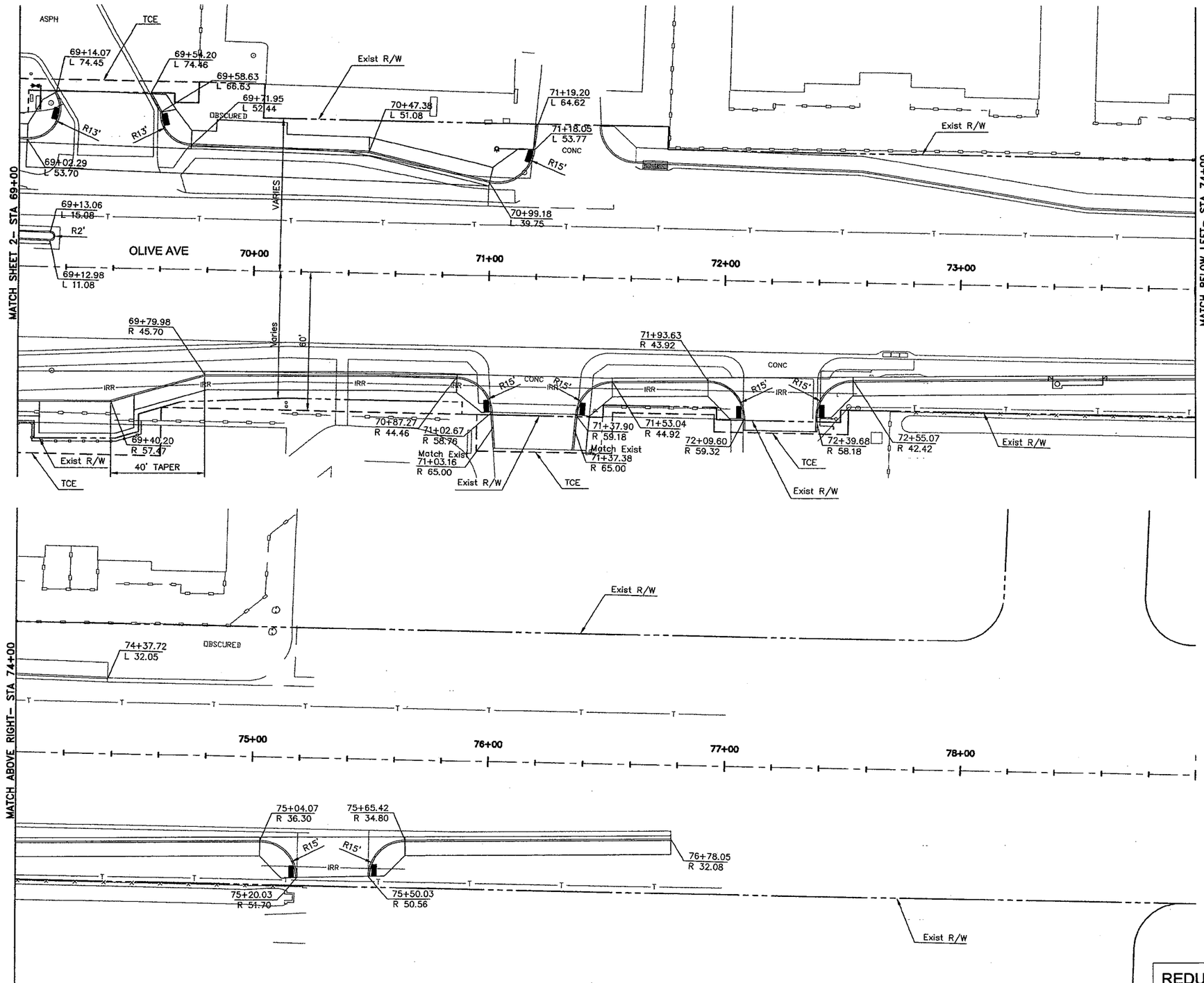
7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS ROADWAY GEOMETRY

REGISTERED PROFESSIONAL ENGINEER
CERTIFICATE NO. 31673
RAJESH S. CHRISTIAN
Date Signed 12-2-09
ARIZONA, U.S.A.
Expires 09/30/2010

DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= 20 VERTICAL= N/A	
SHEET	GL-02
SHEET	44 OF 104
DATE	11/2009
W.O.	



NOTE:
ALL STATIONS AND OFFSETS ARE MEASURED TO FACE OF CURB

ALL STATIONS AND OFFSETS ARE BASED ON OLIVE AVE. CST. ℄

ALL RADII ARE MEASURED TO BACK OF CURB

REDUCED SIZE
DO NOT SCALE

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

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ADOT TRACS NO.
000 MA PEO
SS 60301C

CITY OF PEORIA
PROJECT NO. P-0315

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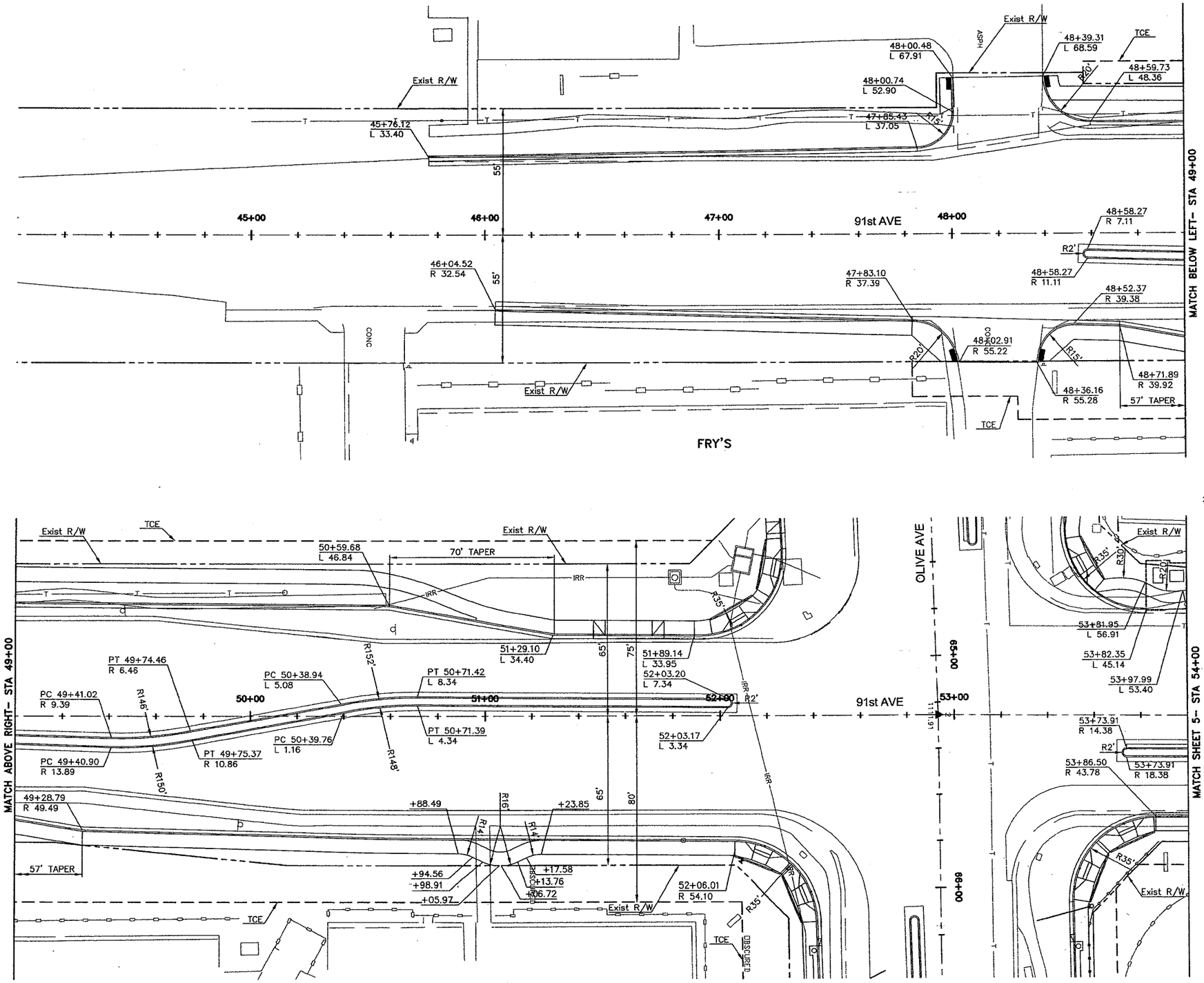
7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS ROADWAY GEOMETRY

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
31673
RAJESH S. CHRISTIAN
Date Signed 12-3-09
ARIZONA, U.S.A.
Expires 09/30/2010

DESIGNED BY:	LJA
DRAWN BY:	LJA/TEM
SCALE: HORIZONTAL= 20 VERTICAL= N/A	
SHEET	GL-03
SHEET	45 OF 104
DATE	11/2009
W.O.	



REDUCED SIZE
DO NOT SCALE

NOTE:

ALL STATIONS AND OFFSETS ARE MEASURED TO FACE OF CURB

ALL STATIONS AND OFFSETS ARE BASED ON 91ST AVE. CST. ℄

ALL RADII ARE MEASURED TO BACK OF CURB

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(OUTSIDE MARICOPA COUNTY)

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ADOT TRACS NO.
000 MA PEO
SS 60301C

CITY OF PEORIA
PROJECT NO. P-0315

Kimley-Horn and Associates, Inc.
KIMLEY-HORN AND ASSOCIATES, INC.
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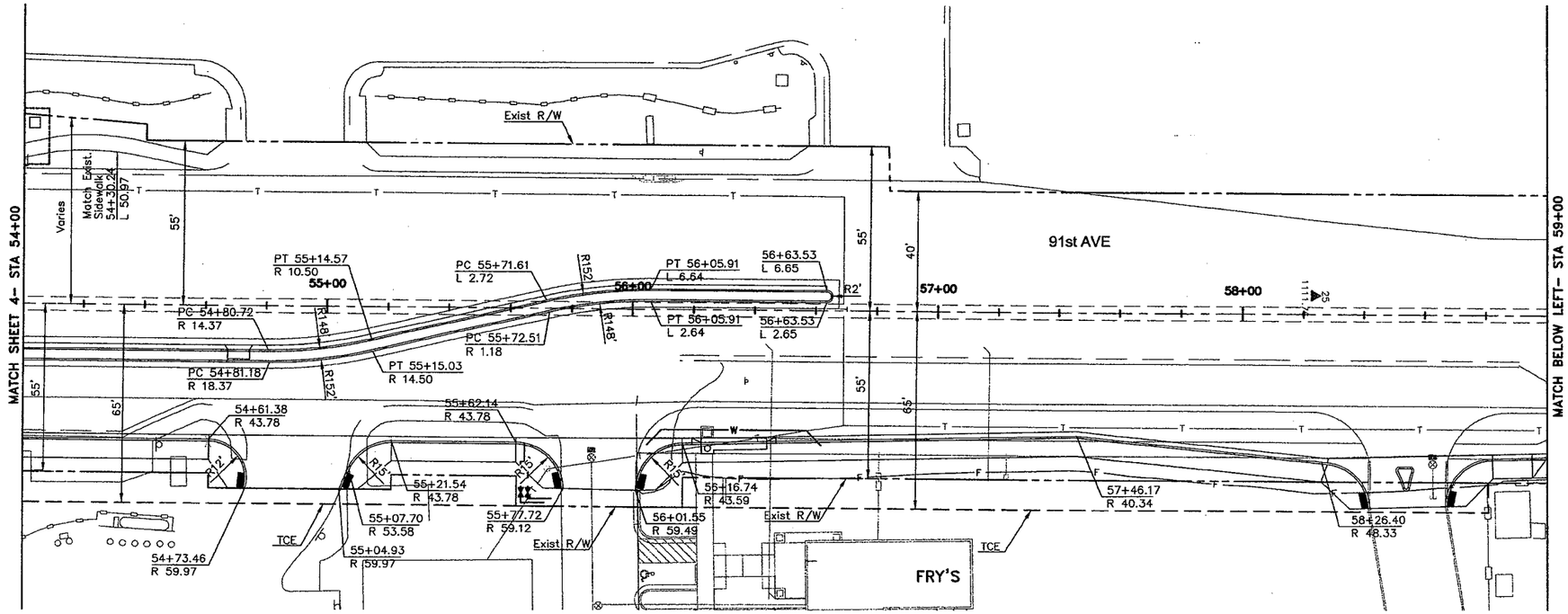
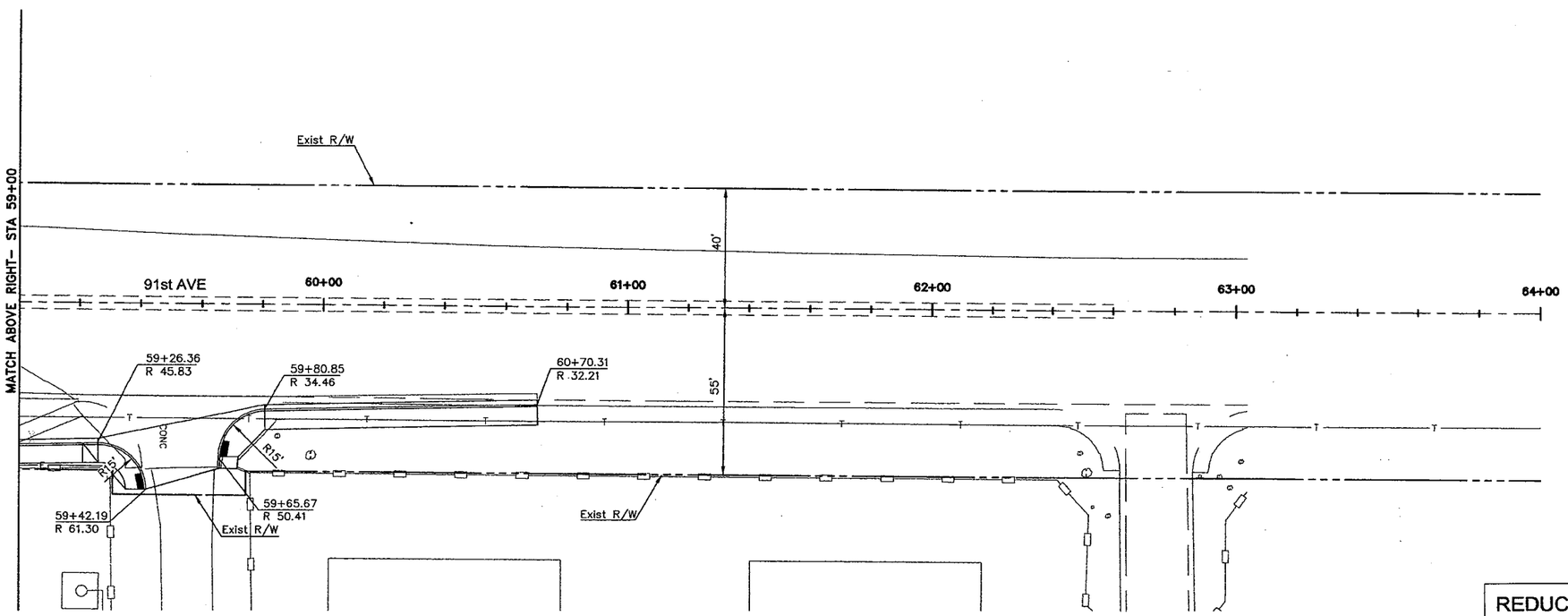
Phoenix, Arizona 85020 (602) 944-5500
© 2009

91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS ROADWAY GEOMETRY

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
21673
RAJESH S. CHRISTIAN
Date Signed 12-3-09
ARIZONA, U.S.A.
Expires 09/30/2010

DESIGNED BY:	LJA
DRAWN BY:	LJA/TEM
SCALE: HORIZONTAL= 20 VERTICAL= N/A	
SHEET	GL-04
SHEET	46 OF 104
DATE	11/2009
W.O.	





NOTE:
ALL STATIONS AND OFFSETS ARE MEASURED TO FACE OF CURB

ALL STATIONS AND OFFSETS ARE BASED ON 91ST AVE. CST. ℄

ALL RADII ARE MEASURED TO BACK OF CURB

REDUCED SIZE
DO NOT SCALE

CALL TWO WORKING DAYS BEFORE YOU DIG
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1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

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000 MA PEO
SS 60301C

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PROJECT NO. P-0315

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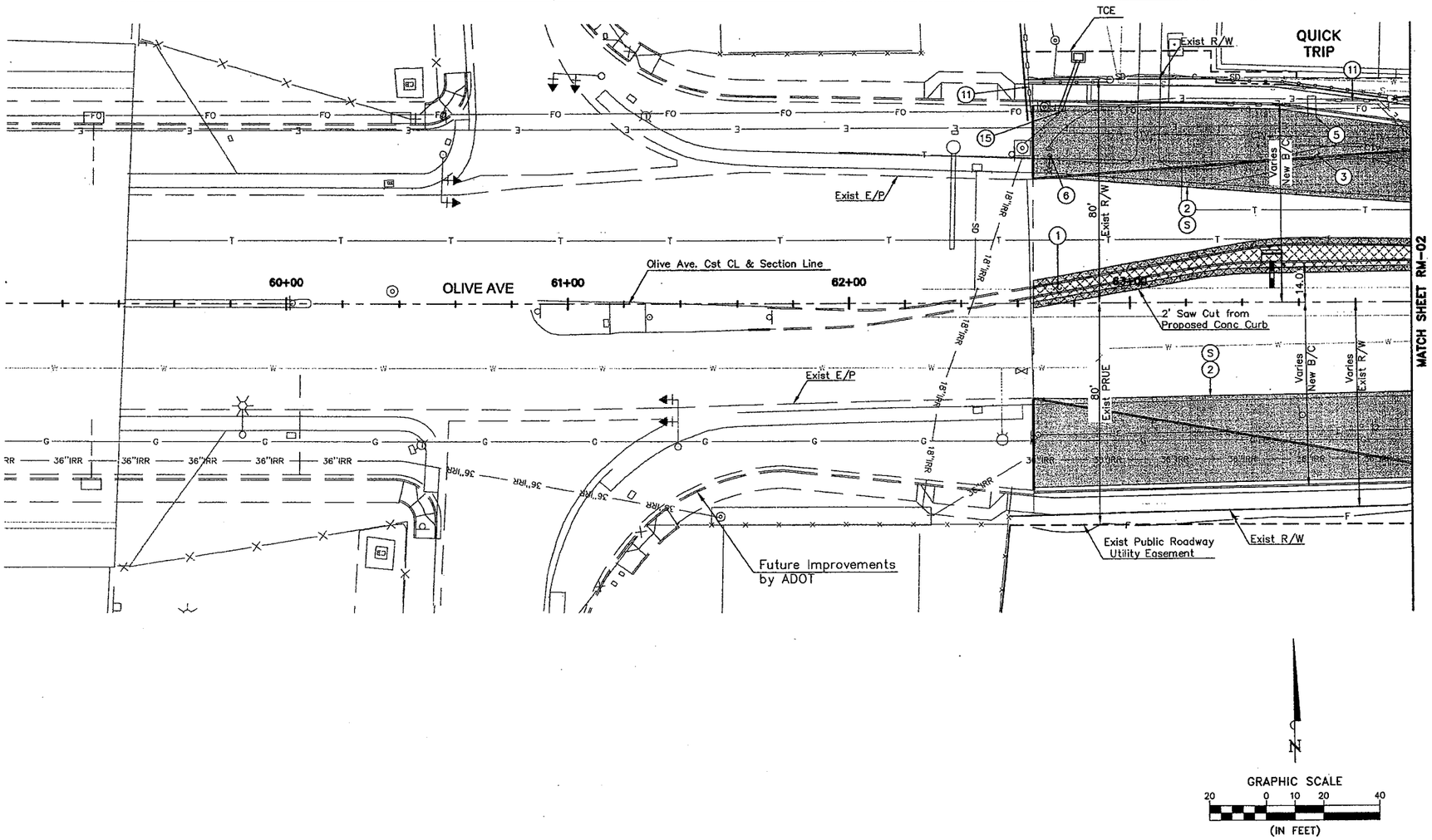
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS ROADWAY GEOMETRY

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
31673
RAJESH S. CHRISTIAN
Date Signed 12-2-09
ARIZONA, U.S.A.
Expires 09/30/2010

DESIGNED BY:	LJA
DRAWN BY:	LJA/TEM
SCALE:	HORIZONTAL= 20 VERTICAL= N/A
SHEET	GL-05
SHEET	47 OF 104
DATE	11/2009
W.O.	



REMOVAL/RELOCATION NOTES

(S) SAWCUT & MATCH EXISTING

NO.	DESCRIPTION
(1)	REMOVE EXISTING ASPHALT CONCRETE PAVEMENT
(2)	REMOVE EXISTING CONCRETE CURB & GUTTER
(3)	REMOVE EXISTING CONCRETE CURB AND SIDEWALK, DRIVEWAY, AND SLABS
(5)	EXISTING SIGN STRUCTURE (TO BE RELOCATED BY OTHERS SEE SPECIAL PROVISIONS)
(6)	REMOVE & SALVAGE EXISTING STREET LIGHT POLE (SEE STREET LIGHT PLANS & SPECIAL PROVISIONS)
(11)	REMOVE EXISTING BLOCK WALL 16' @ STA 62±65, STA 63+70 TO 64+00
(15)	REMOVE EXISTING CATCH BASIN

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Phoenix, Arizona 85020 (602) 944-5500

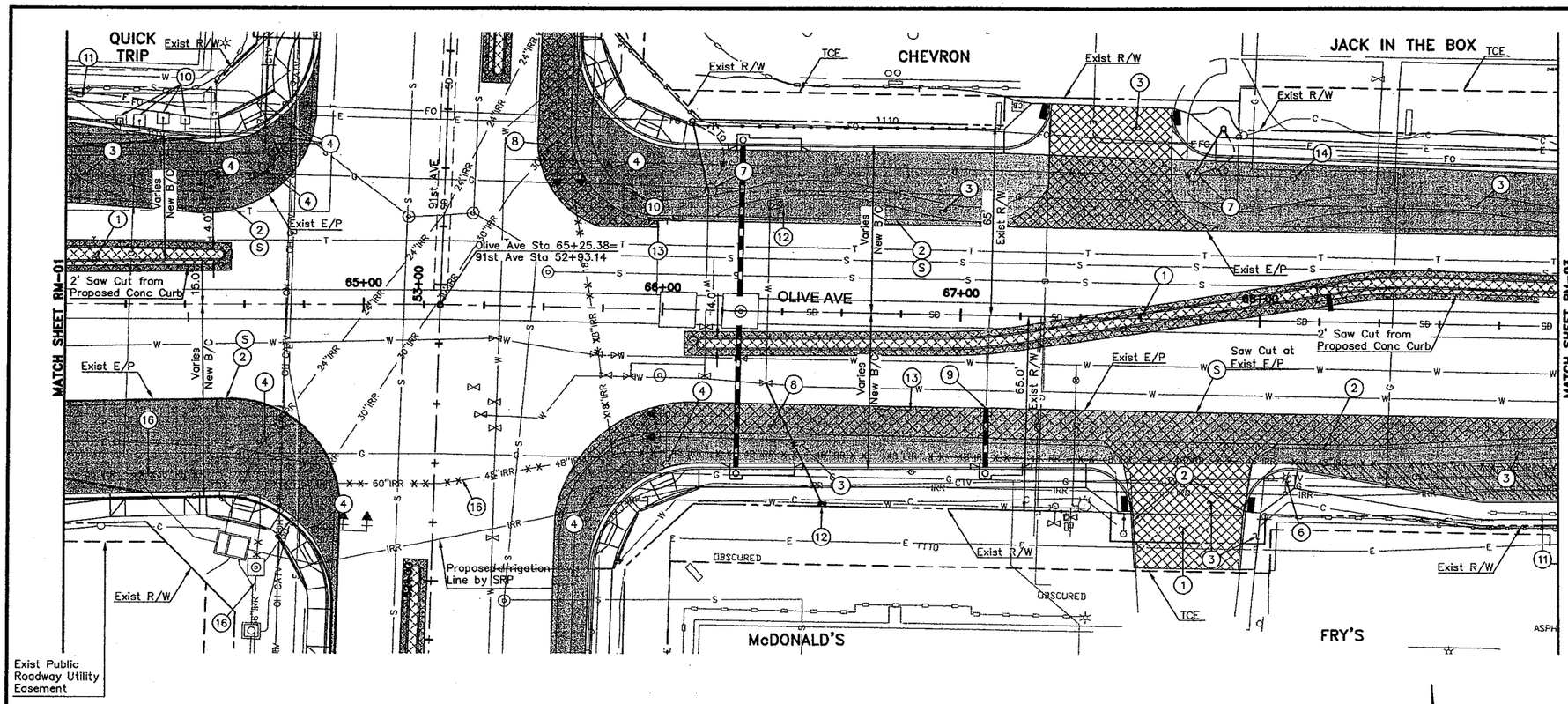
91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
REMOVE AND RELOCATE SHEET

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
21673
RAJESH S. CHRISTIAN
ARIZONA, U.S.A.
Expires 09/30/2010

DESIGNED BY: LJA
DRAWN BY: LJA/TEM
SCALE:
HORIZONTAL= 20
VERTICAL= N/A
SHEET RM-01
SHEET 48 OF 104
DATE 11/2009
W.O.

REDUCED SIZE
DO NOT SCALE

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)



GRAPHIC SCALE
20 0 10 20 40
(IN FEET)

REMOVAL/RELOCATION NOTES

(S) SAWCUT & MATCH EXISTING

NO.	DESCRIPTION
1	REMOVE EXISTING ASPHALT CONCRETE PAVEMENT
2	REMOVE EXISTING CONCRETE CURB AND CURB & GUTTER
3	REMOVE EXISTING CONCRETE SIDEWALK, DRIVEWAY, AND SLABS
4	REMOVE AND SALVAGE (SEE TRAFFIC SIGNAL PLANS AND SPECIFICATIONS)
6	REMOVE & SALVAGE EXISTING STREET LIGHT POLE (SEE STREET LIGHT PLANS & SPECIAL PROVISIONS)
7	RELOCATE EXISTING FIRE HYDRANT (SEE SPECIAL PROVISIONS)
8	REMOVE EXISTING PCCP
9	REMOVE EXISTING CATCH BASIN
10	EXISTING CONTROL CABINETS, UTILITY BOXES, ETC. TO BE RELOCATED BY OTHERS
11	REMOVE EXISTING BLOCK WALL STA 64+00 TO 64±10 STA 68±52 TO 69+00 CONNECT TO EXISTING WALL MATCH IN KIND (SEE WALL DETAIL)
12	RELOCATE EXISTING AIR RELEASE VALVE TO STA: 66+55.00, OFFSET 64.25', RT. (SEE SPECIAL PROVISION)
13	REMOVE EXISTING SLOTTED DRAIN
14	RELOCATE FIRE DEPARTMENT CONNECTION PIPE.
16	GROUT/SLURRY ABANDONED SRP IRRIGATION PIPE, INSTALL TRACER WIRE (SEE SPECIAL PROVISIONS)

REDUCED SIZE
DO NOT SCALE

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

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ADOT TRACS NO. 000 MA PEO SS60301C
CITY OF PEORIA PROJECT NO. P-0315

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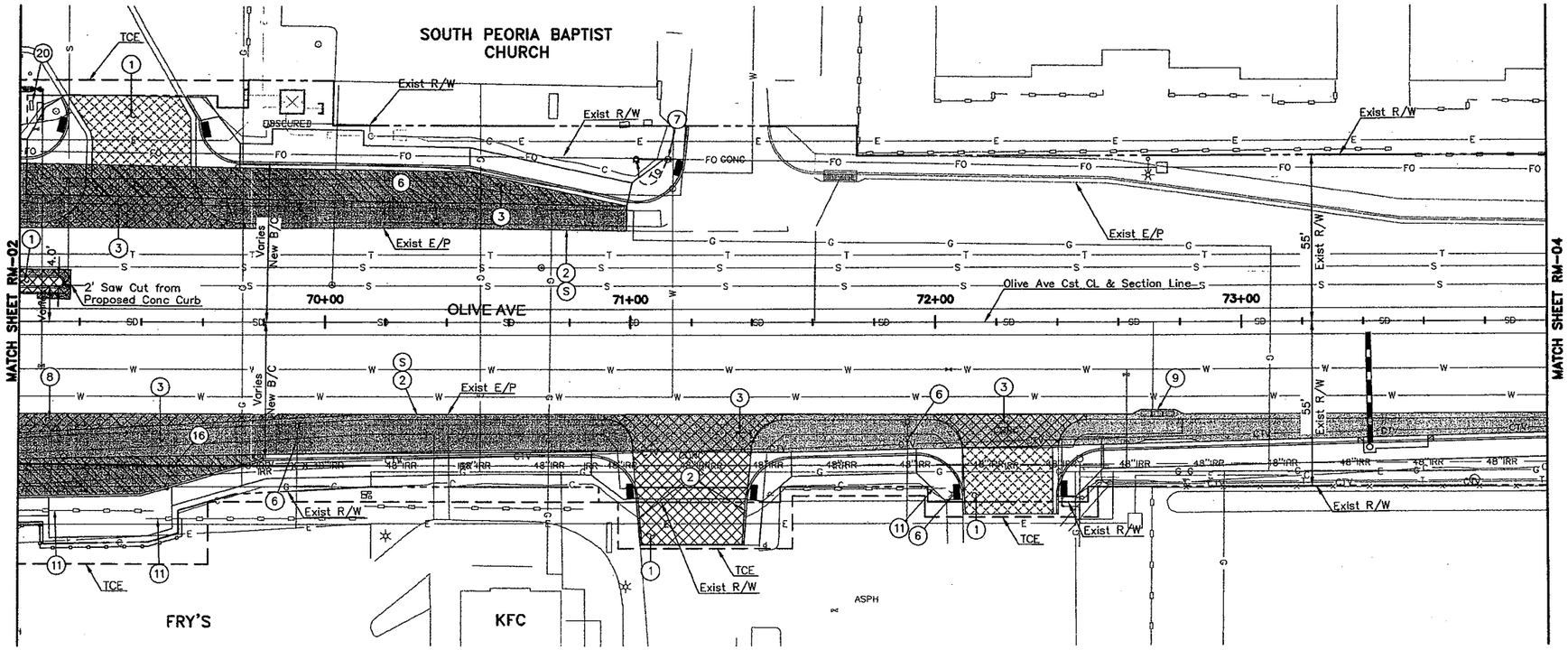
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
REMOVE AND RELOCATE SHEET

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
31673
RAJESH S. CHRISTIAN
Date Signed 12-3-09
ARIZONA, U.S.A.
Expires 09/30/2012

DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= VERTICAL=	
SHEET	RM-02
SHEET	49 OF 104
DATE	11/2009
W.O.	



REMOVAL/RELOCATION NOTES

(S) SAWCUT & MATCH EXISTING

NO.	DESCRIPTION
1	REMOVE EXISTING ASPHALT CONCRETE PAVEMENT
2	REMOVE EXISTING CONCRETE CURB AND CURB & GUTTER
3	REMOVE EXISTING CONCRETE SIDEWALK, DRIVEWAY, AND SLABS
6	REMOVE & SALVAGE EXISTING STREET LIGHT POLE (SEE STREET LIGHT PLANS & SPECIAL PROVISIONS)
7	RELOCATE EXISTING FIRE HYDRANT (SEE SPECIAL PROVISIONS)
8	REMOVE EXISTING PCCP
9	CUT & PLUG PIPE, REMOVE EXISTING CATCH BASIN
11	REMOVE EXISTING BLOCK WALL STA 69+00 TO 69±53 AND STA 71+96 TO STA 72+03, CONNECT TO EXISTING WALL MATCH IN KIND (SEE WALL DETAIL)
16	GROUT/SLURRY ABANDONED SRP IRRIGATION PIPE. INSTALL TRACER WIRE. (SEE SPECIAL PROVISIONS)
20	RELOCATE IRRIGATION BOX, METER & BACKFLOW PREVENTER

N

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)

REDUCED SIZE
DO NOT SCALE

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

NOTE: THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.

ADOT TRACS NO. 000 MA PEO SS60301C
CITY OF PEORIA PROJECT NO. P-0315

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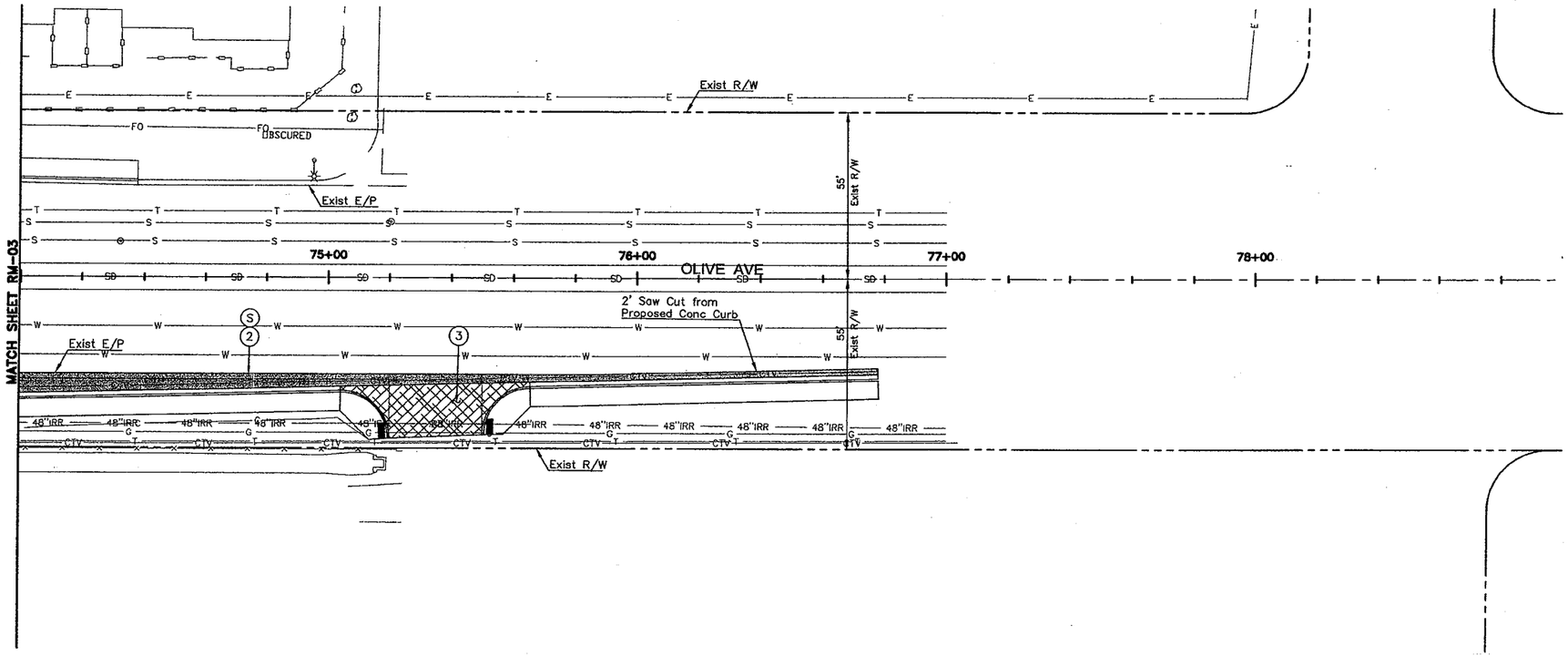
7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS REMOVE AND RELOCATE SHEET

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
31673
RAJESH S. CHRISTIAN
Date Signed 12-1-09
ARIZONA, U.S.A.
Expires 09/30/2010

DESIGNED BY: LJA
DRAWN BY: LJA/TEM
SCALE:
HORIZONTAL=
VERTICAL=
SHEET RM-03
SHEET 50 OF 104
DATE 11/2009
W.O.



REMOVAL/RELOCATION NOTES

(S) SAWCUT & MATCH EXISTING

NO.	DESCRIPTION
(2)	REMOVE EXISTING CONCRETE CURB AND CURB & GUTTER
(3)	REMOVE EXISTING CONCRETE SIDEWALK, DRIVEWAY, AND SLABS

N

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)

REDUCED SIZE
DO NOT SCALE

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

NOTE: THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.

ADOT TRACS NO.
000 MA PEO
SS60301C

CITY OF PEORIA
PROJECT NO. P-0315

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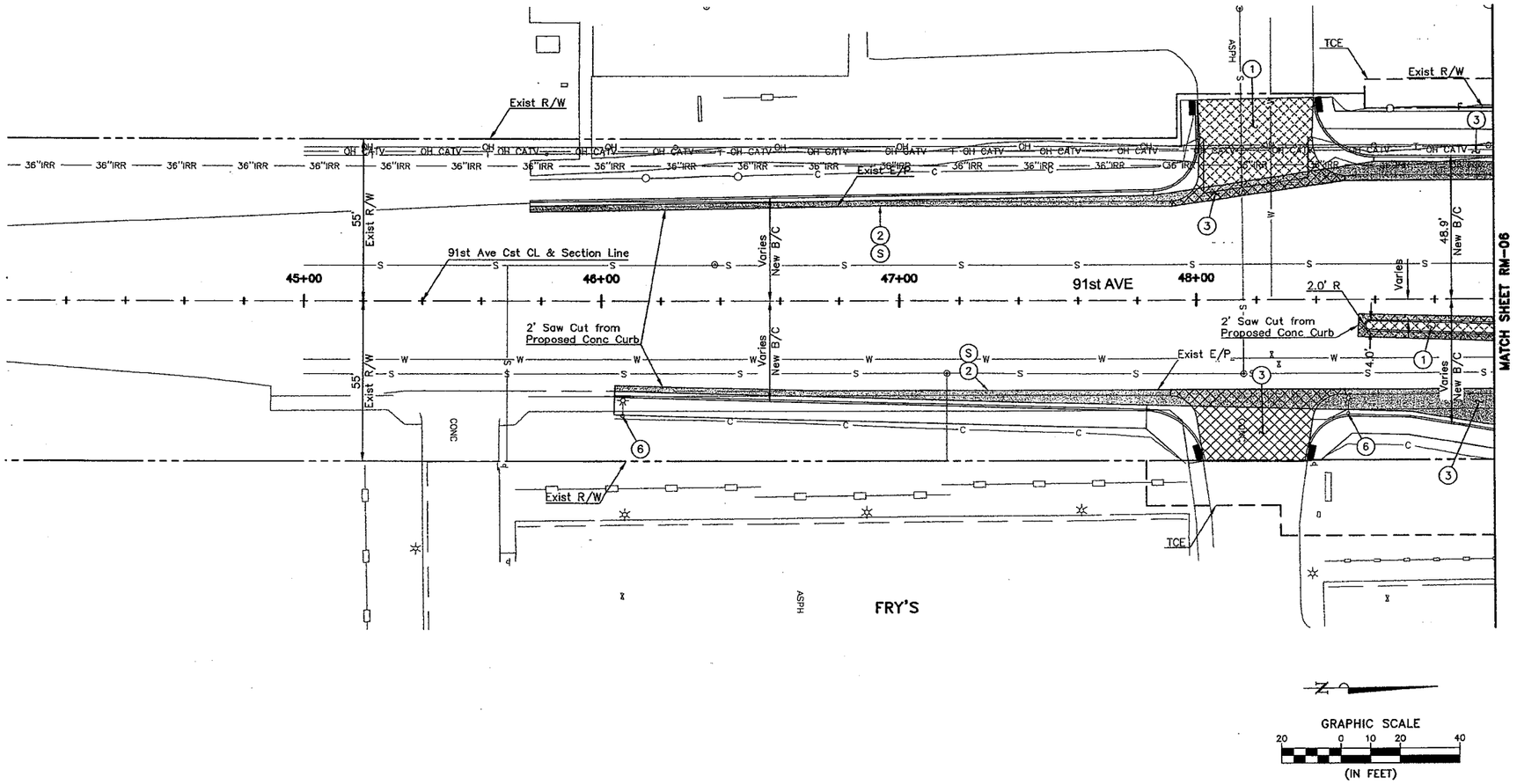
7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS REMOVAL AND RELOCATION SHEET

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO. 31673
RAJESH S. CHRISTIAN
Date Signed 12-8-09
ARIZONA, U.S.A.
Expires 09/30/2010

DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= VERTICAL=	
SHEET RM-04	
SHEET 51 OF 104	
DATE 11/2009	
W.O.	



REMOVAL/RELOCATION NOTES

(S) SAWCUT & MATCH EXISTING

NO.	DESCRIPTION
1	REMOVE EXISTING ASPHALT CONCRETE PAVEMENT
2	REMOVE EXISTING CONCRETE CURB AND CURB & GUTTER
3	REMOVE EXISTING CONCRETE SIDEWALK, DRIVEWAY, AND SLABS
6	REMOVE & SALVAGE EXISTING STREET LIGHT POLE (SEE STREET LIGHT PLANS & SPECIAL PROVISIONS)

NOTE: THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.

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CITY OF PEORIA PROJECT NO. P-0315

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7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

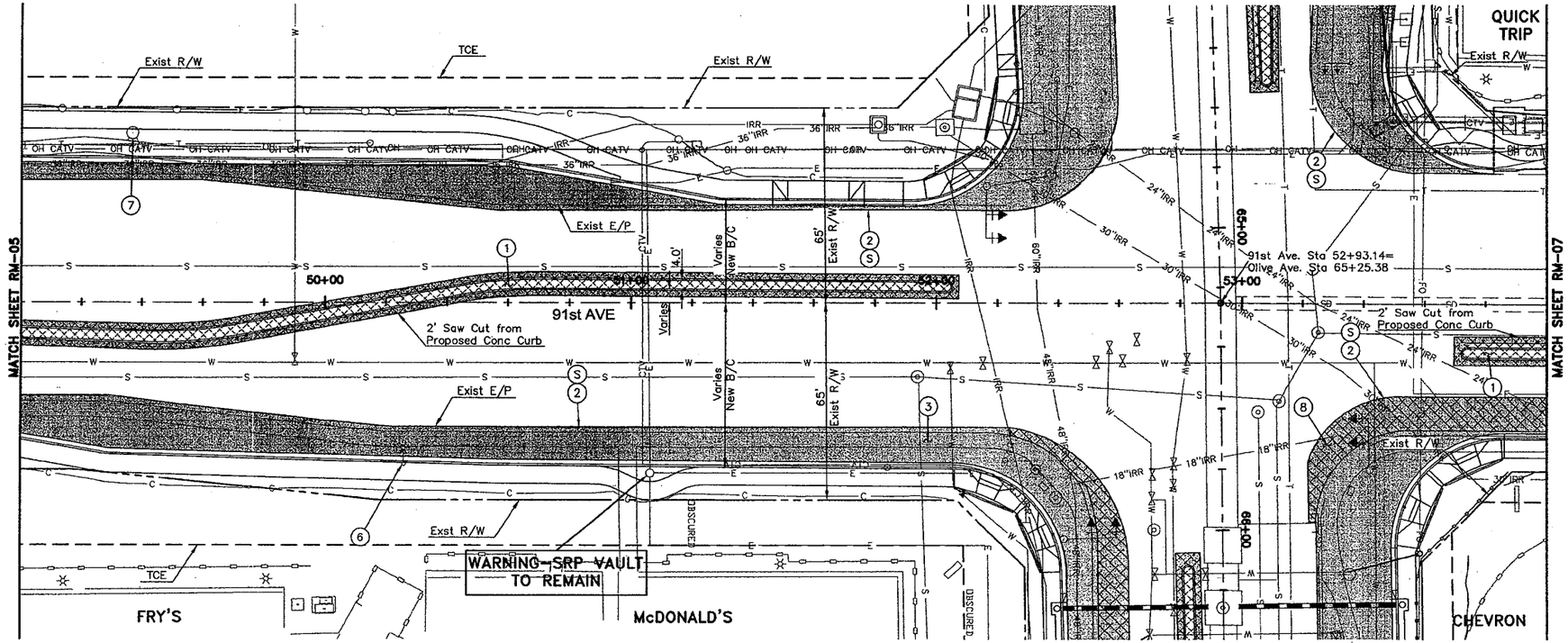
91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS REMOVAL AND RELOCATION SHEET

Registered Professional Engineer (Civil) 31673 RAJESH S. CHRISTIAN Date Signed 12-3-09 ARIZONA U.S.A. Expires 09/30/2010

DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= VERTICAL=	
SHEET	RM-05
SHEET	52 OF 104
DATE	11/2009
W.O.	

REDUCED SIZE DO NOT SCALE

CALL TWO WORKING DAYS BEFORE YOU DIG 602-263-1100 1-800-STAKE-IT (OUTSIDE MARICOPA COUNTY)



REMOVAL/RELOCATION NOTES

(S) SAWCUT & MATCH EXISTING

NO.	DESCRIPTION
1	REMOVE EXISTING ASPHALT CONCRETE PAVEMENT
2	REMOVE EXISTING CONCRETE CURB AND CURB & GUTTER
3	REMOVE EXISTING CONCRETE SIDEWALK, DRIVEWAY, AND SLABS
6	REMOVE & SALVAGE EXISTING STREET LIGHT POLE (SEE STREET LIGHT PLANS & SPECIAL PROVISIONS)
7	RELOCATE EXISTING FIRE HYDRANT (SEE SPECIAL PROVISIONS)
8	REMOVE EXISTING PCCP

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CITY OF PEORIA PROJECT NO. P-0315

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Phoenix, Arizona 85020 (602) 944-5500

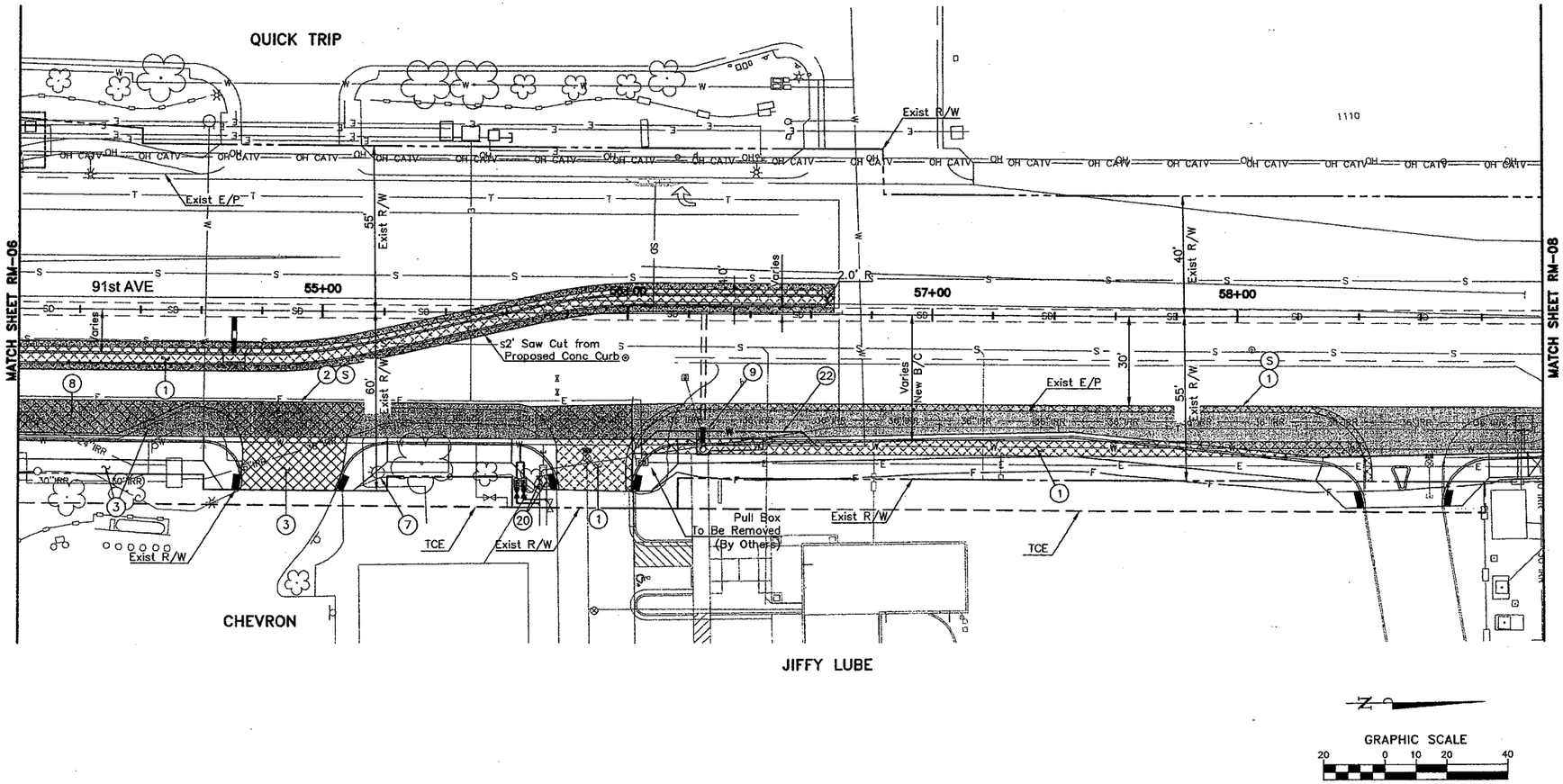
91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
REMOVAL AND RELOCATION SHEET

RAJESH S. CHRISTIAN 31673 ARIZONA U.S.A. Date Signed 12-3-09 Expires 09/30/2010

DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= VERTICAL=	
SHEET	RM-06
SHEET	53 OF 104
DATE	11/2009
W.O.	

REDUCED SIZE
DO NOT SCALE

CALL TWO WORKING DAYS BEFORE YOU DIG 602-263-1100 1-800-STAKE-IT (OUTSIDE MARICOPA COUNTY)



REMOVAL/RELOCATION NOTES

(S) SAWCUT & MATCH EXISTING

NO.	DESCRIPTION
1	REMOVE EXISTING ASPHALT CONCRETE PAVEMENT
2	REMOVE EXISTING CONCRETE CURB AND CURB & GUTTER
3	REMOVE EXISTING CONCRETE SIDEWALK, DRIVEWAY, AND SLABS
7	RELOCATE EXISTING FIRE HYDRANT (SEE SPECIAL PROVISIONS)
8	REMOVE EXISTING PCCP
9	REMOVE EXISTING CATCH BASIN
20	RELOCATE IRRIGATION BOX, METER & BACKFLOW PREVENTER.
22	RELOCATE EXISTING WATER LINE PER DETAIL SHEET SD-05

NOTE: THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.

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Phoenix, Arizona 85020 (602) 944-5500

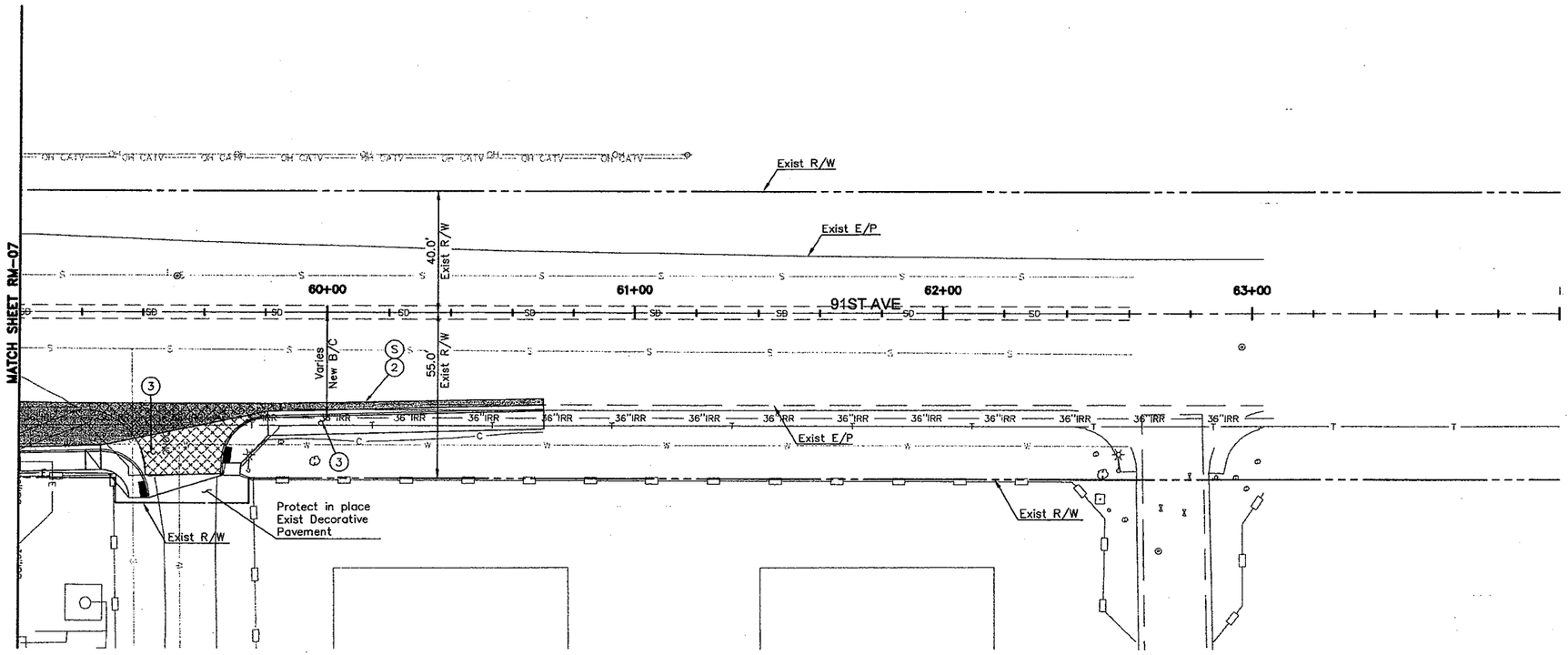
91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS REMOVAL AND RELOCATION SHEET

31673 RAJESH S. CHRISTIAN ARIZONA, U.S.A. Date Signed 12-3-09 Expires 09/30/2010

DESIGNED BY: LJA
DRAWN BY: LJA/TEM
SCALE:
HORIZONTAL=
VERTICAL=
SHEET RM-07
SHEET 54 OF 104
DATE 11/2009
W.O.

REDUCED SIZE DO NOT SCALE

CALL TWO WORKING DAYS BEFORE YOU DIG 602-263-1100 1-800-STAKE-IT (OUTSIDE MARICOPA COUNTY)



REMOVAL/RELOCATION NOTES

(S) SAWCUT & MATCH EXISTING

NO.	DESCRIPTION
(2)	REMOVE EXISTING CONCRETE CURB AND CURB & GUTTER
(3)	REMOVE EXISTING CONCRETE SIDEWALK, DRIVEWAY, AND SLABS

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)

REDUCED SIZE
DO NOT SCALE

CALL TWO WORKING DAYS BEFORE YOU DIG
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1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

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CITY OF PEORIA PROJECT NO. P-0315

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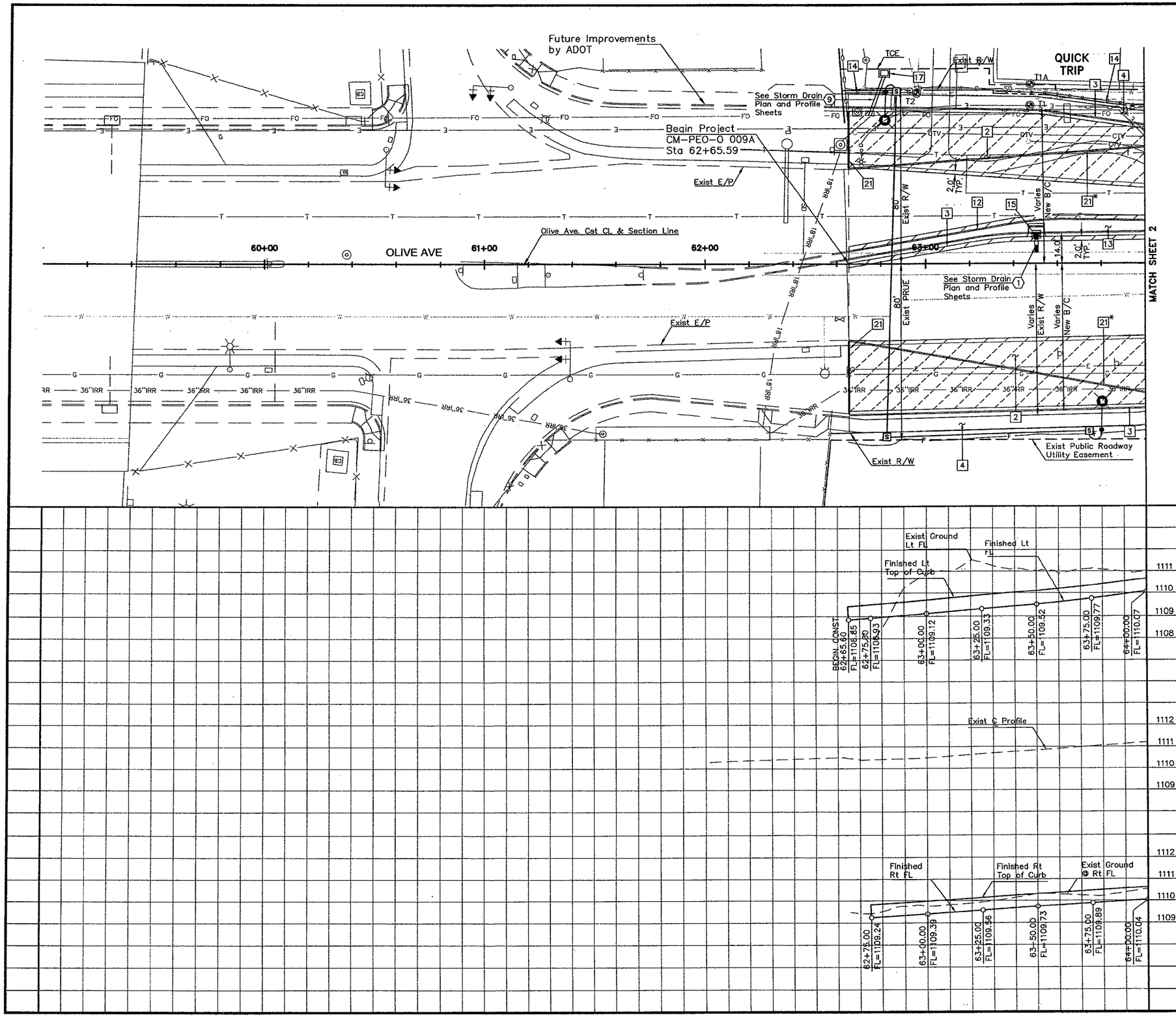
Phoenix, Arizona 85020 (602) 944-5500

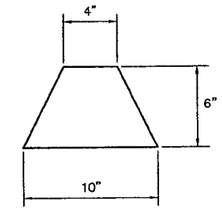
91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS REMOVAL AND RELOCATION SHEET

Registered Professional Engineer (Civil)
CERTIFICATE NO. 31673
RAJESH S. CHRISTIAN
Date Signed 12-2-09
ARIZONA, U.S.A.
Expires 09/30/2010

DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= VERTICAL=	
SHEET	RM-08
SHEET	55 OF 104
DATE	11/2009
W.O.	



* TEMPORARY 6" ASPHALT CURB TO BE CONSTRUCTED AS SHOWN BELOW AFTER COMPLETION OF ALL OTHER IMPROVEMENTS. IT SHALL BE INCIDENTAL TO OTHER CONTRACT ITEMS.



TEMPORARY AC CURBING DETAIL

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)

CONSTRUCTION NOTES

NO.	DESCRIPTION
2	NEW ASPHALT CONCRETE PAVEMENT
3	CURB & GUTTER, TYPE A M.A.G. DET 220, H=7"
4	CONCRETE SIDEWALK, M.A.G. DET 230, W=6'
12	SINGLE CURB, TYPE A M.A.G. DET 222, H=7"
13	MEDIAN PAVING (DECORATIVE PAVEMENT)
14	NEW RETAINING WALL W/HANDRAIL NEW SCREEN WALL (SEE DETAIL)
15	NEW CATCH BASIN M.A.G. DET 531
17	NEW CATCH BASIN M.A.G. DET 535
21	TEMP. 6" AC CURB FROM SAWCUT LINE TO EP

REDUCED SIZE
DO NOT SCALE

NOTE:
TOP OF CURB ELEVATIONS ARE 7" HIGHER FOR CURB AND GUTTER

POTHOLE LOCATION
SEE POTHOLE DATA FOR DETAILS
T=TBE GROUP
S=SAF-R-DIG

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

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ADOT TRACS NO. 000 MA PEO SS60301C
CITY OF PEORIA PROJECT NO. P-0315

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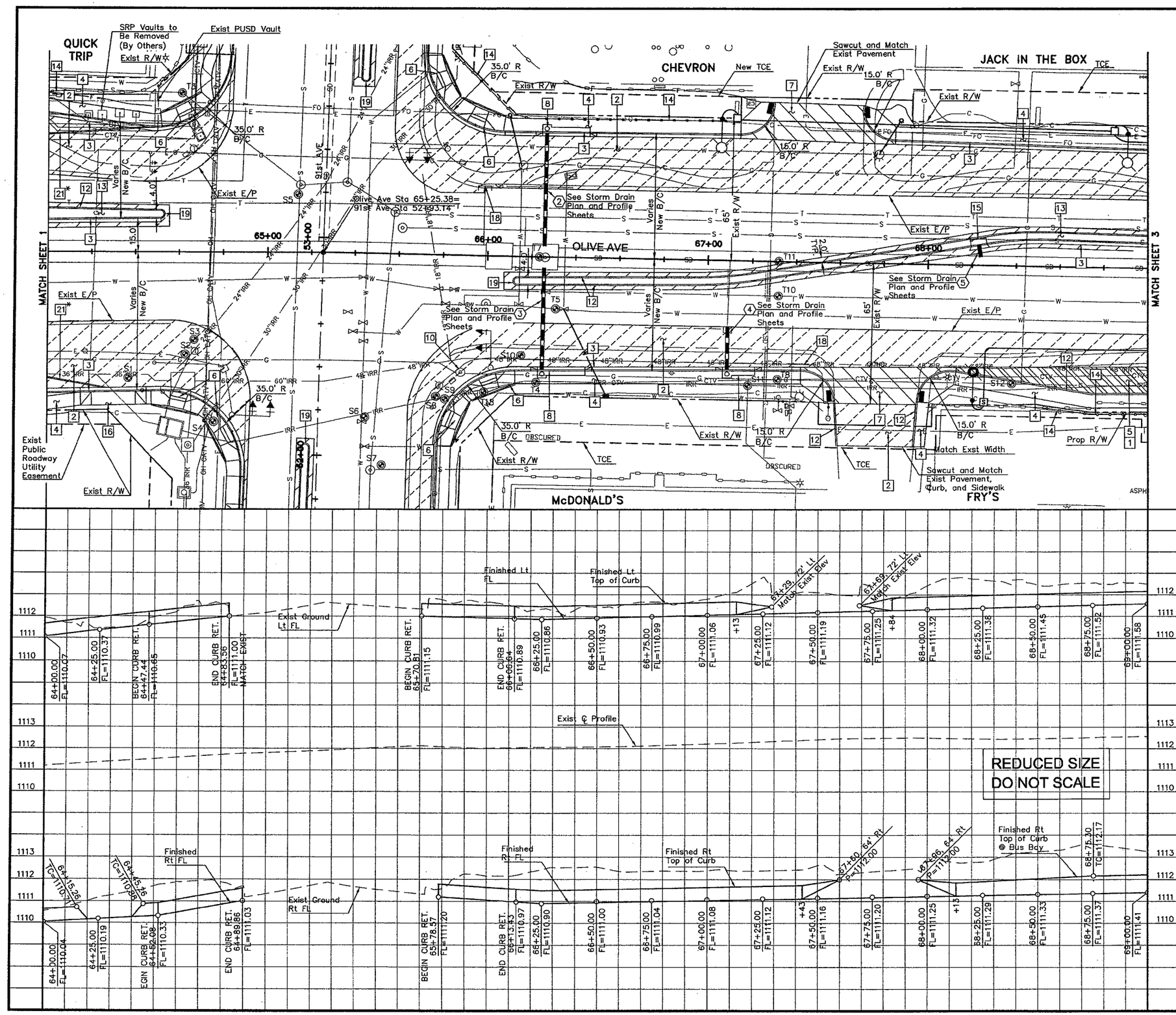
7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

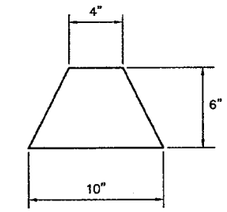
91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS PAVING PLAN AND PROFILE

Registered Professional Engineer (Civil) 31673 RAJESH S. CHRISTIAN Date Signed 12-3-09 ARIZONA, U.S.A. Expires 09/30/2012

DESIGNED BY: LJA
DRAWN BY: LJA/TEM
SCALE: HORIZONTAL= 20 VERTICAL=
SHEET RD-01
SHEET 56 OF 104
DATE 11/2009
W.O.



* TEMPORARY 6" ASPHALT CURB TO BE CONSTRUCTED AS SHOWN BELOW AFTER COMPLETION OF ALL OTHER IMPROVEMENTS. IT SHALL BE INCIDENTAL TO OTHER CONTRACT ITEMS.



TEMPORARY AC CURBING DETAIL

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)

CONSTRUCTION NOTES

NO.	DESCRIPTION
1	NEW PCCP
2	NEW ASPHALT CONCRETE PAVEMENT
3	CURB & GUTTER, TYPE A M.A.G. DET 220, H=7"
4	CONCRETE SIDEWALK, M.A.G. DET 230, W=6'
5	BUS BAY, TYPE 1 C.O.P. STD DET P1256-1 SEE DETAIL
6	SIDEWALK RAMP, TYPE A M.A.G. DET 231
7	RETURN TYPE DRIVEWAY, PEORIA DET 251
8	NEW CATCH BASIN CITY OF PHOENIX DET P1569-1
10	ADJUST VALVE FRAME AND COVER PER PEORIA DET PE-270
12	SINGLE CURB, TYPE A M.A.G. DET 222, H=7"
13	MEDIAN PAVING (DECORATIVE PAVEMENT)
14	NEW WALL (SEE DETAIL)
15	NEW CATCH BASIN M.A.G. DET 531
16	NEW DRIVEWAY ENTRANCE M.A.G. DET 250
18	STUB OUT EXIST STORM DRAIN
19	MEDIAN NOSE TRANSITION M.A.G. DET 223
21	TEMP. 6" AC CURB FROM SAWCUT LINE TO EP

* TEMPORARY 6" ASPHALT CURB TO BE CONSTRUCTED AFTER COMPLETION OF ALL OTHER IMPROVEMENTS.

NOTE:

TOP OF CURB ELEVATIONS ARE 7" HIGHER FOR CURB AND GUTTER

POTHOLE LOCATION
SEE POTHOLE DATA FOR DETAILS
T=TBE GROUP
S=SAF-R-DIG

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1-800-STAKE-IT
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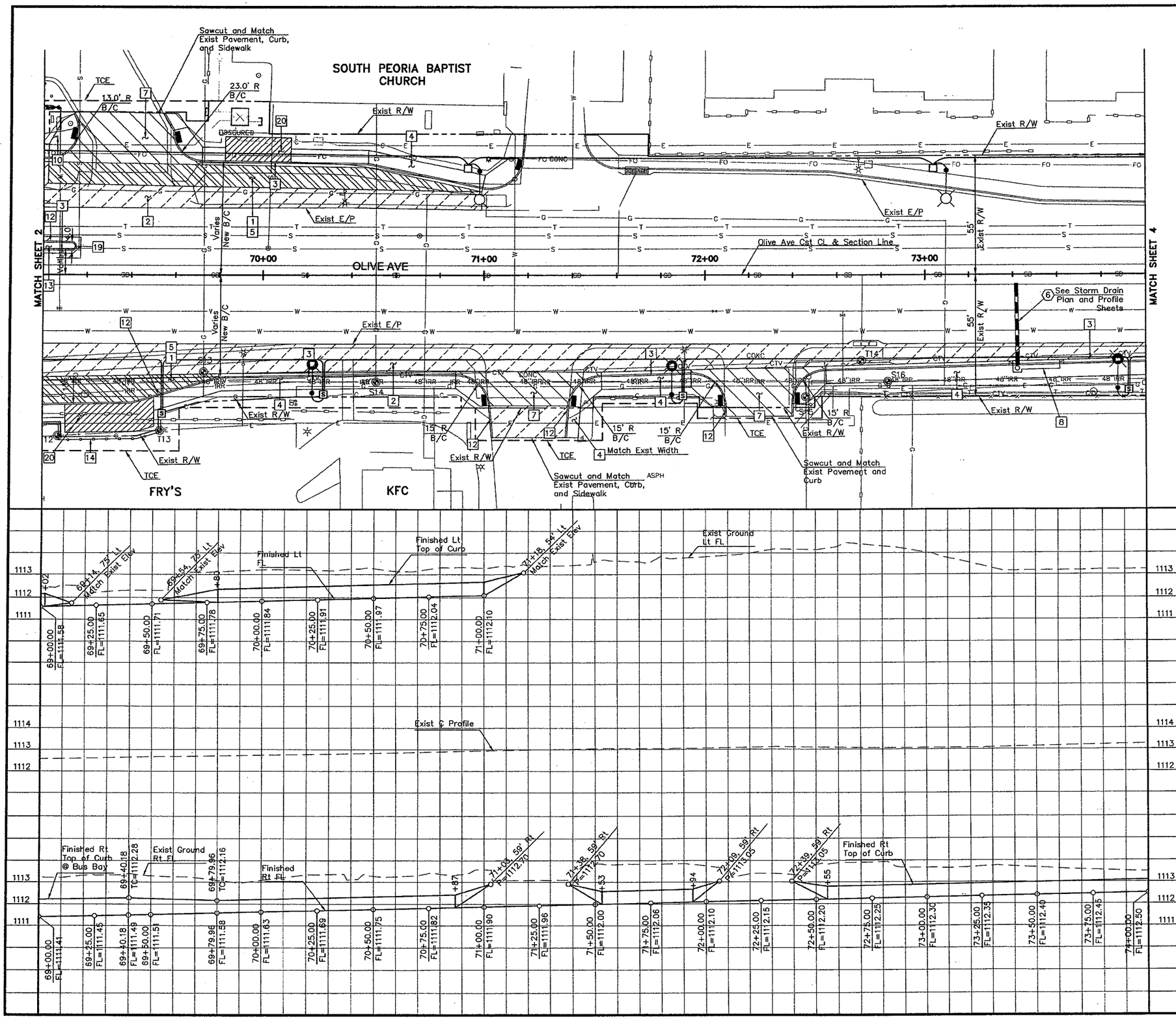
91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS PAVING PLAN AND PROFILE

Registered Professional Engineer (Civil) CERTIFICATE NO. 31673 RAJESH S. CHRISTIAN Date Signed 11-3-09 ARIZONA, U.S.A. Expires 09/30/2010

DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= 20 VERTICAL=	
SHEET	RD-02
SHEET	57 OF 104
DATE	11/2009
W.O.	



CONSTRUCTION NOTES

NO.	DESCRIPTION
1	NEW PCCP
2	NEW ASPHALT CONCRETE PAVEMENT
3	CURB & GUTTER, TYPE A M.A.G. DET 220, H=7"
4	CONCRETE SIDEWALK, M.A.G. DET 230, W=6'
5	BUS BAY, TYPE 1 C.O.P. STD DET P1256-1 (SEE DETAIL)
7	RETURN TYPE DRIVEWAY, PEORIA DET 251
8	NEW CATCH BASIN CITY OF PHOENIX DET P1569-1
10	ADJUST WATER VALVE, FRAME AND COVER, PEORIA DET PE-270
12	SINGLE CURB, TYPE A M.A.G. DET 222, H=7"
13	MEDIAN PAVING (DECORATIVE PAVEMENT)
14	NEW WALL (SEE DETAIL)
19	MEDIAN NOSE TRANSITION M.A.G. DTL 223
20	BUS SHELTER PAD (SEE DETAIL)

NOTE:
TOP OF CURB ELEVATIONS ARE 7" HIGHER FOR CURB AND GUTTER

POTHOLE LOCATION
SEE POTHOLE DATA FOR DETAILS
T=TBE GROUP
S=SAF-R-DIG

CALL TWO WORKING DAYS BEFORE YOU DIG
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1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

REDUCED SIZE
DO NOT SCALE

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)

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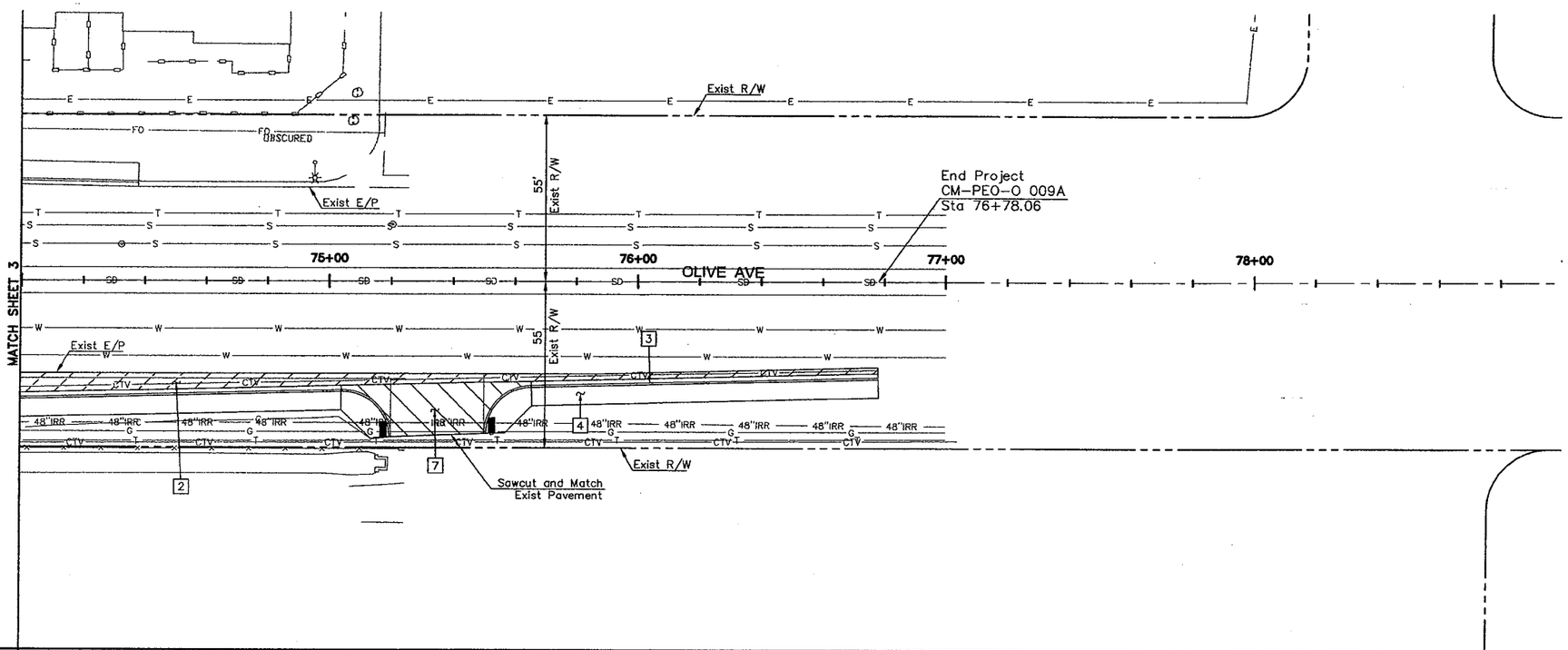
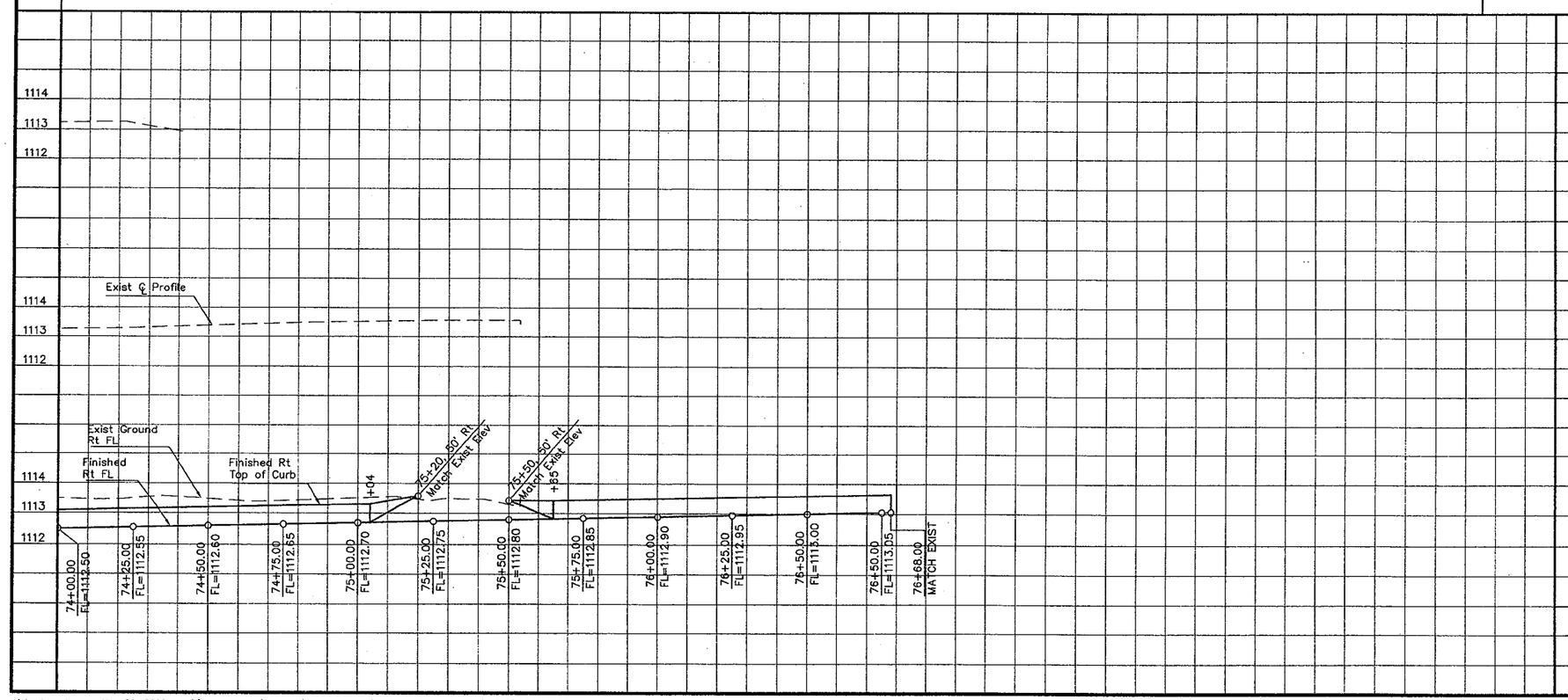
91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS PAVING PLAN AND PROFILE

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
21673
RAJESH S. CHRISTIAN
Date Signed 12-3-09
ARIZONA U.S.A.
Expires 06/30/2010

DESIGNED BY:	LJA
DRAWN BY:	LJA/TEM
SCALE: HORIZONTAL= 20 VERTICAL= 2	
SHEET	RD-03
SHEET	58 OF 104
DATE	11/2009
W.O.	





GRAPHIC SCALE
20 0 10 20 40
(IN FEET)

CONSTRUCTION NOTES

NO.	DESCRIPTION
2	NEW ASPHALT CONCRETE PAVEMENT
3	CURB & GUTTER, TYPE A M.A.G. DET 220, H=7"
4	CONCRETE SIDEWALK, M.A.G. DET 230, W=6'
7	RETURN TYPE DRIVEWAY, PEORIA DET 251

REDUCED SIZE
DO NOT SCALE

NOTE:
TOP OF CURB ELEVATIONS ARE 7" HIGHER FOR CURB AND GUTTER

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REGISTERED PROFESSIONAL ENGINEER (CIVIL)
31673
RAJESH S. CHRISTIAN
Date Signed 12-8-09
ARIZONA, U.S.A.
Expires 09/30/2010

DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= 20 VERTICAL=	
SHEET	RD-04
SHEET	59 OF 104
DATE	11/2009
W.O.	

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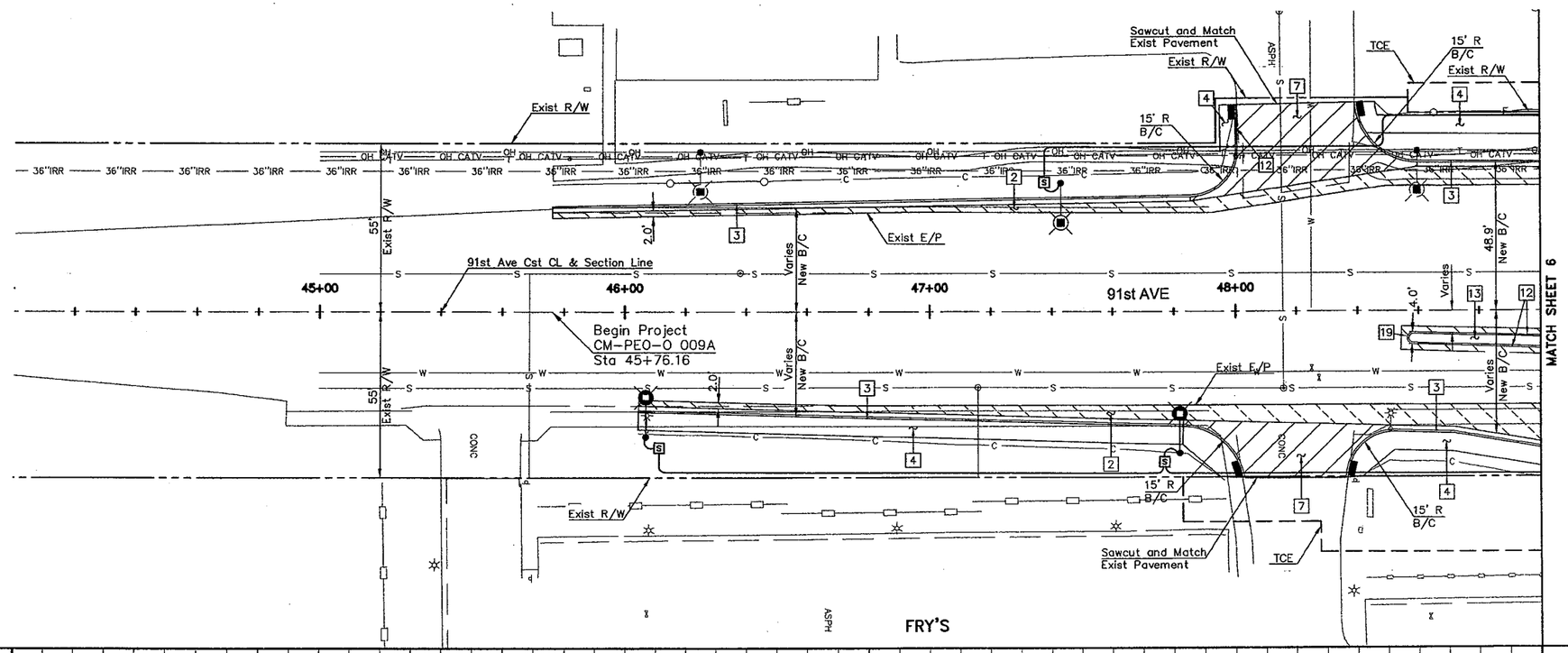

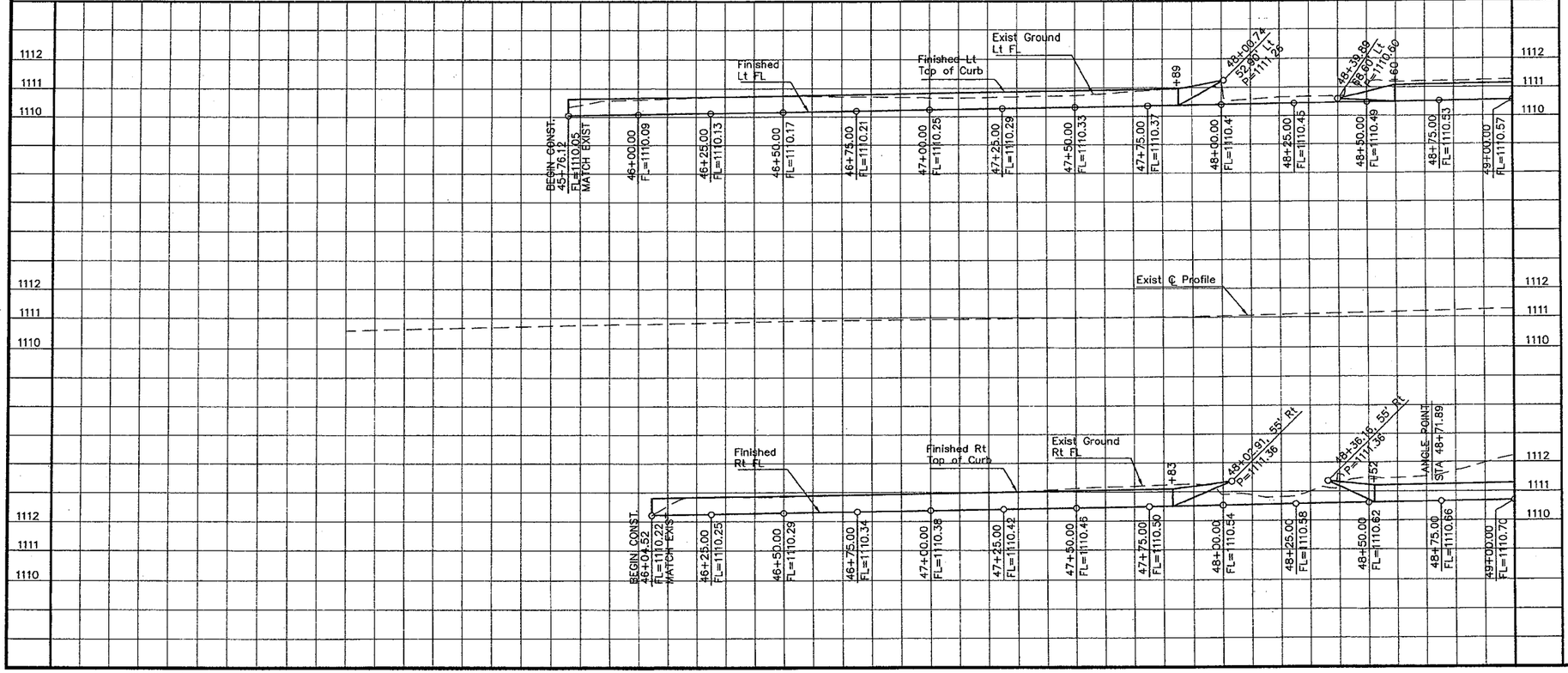

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GRAPHIC SCALE
20 0 10 20 40
(IN FEET)

CONSTRUCTION NOTES

NO.	DESCRIPTION
2	NEW ASPHALT CONCRETE PAVEMENT
3	CURB & GUTTER, TYPE A M.A.G. DET 220, H=7"
4	CONCRETE SIDEWALK, M.A.G. DET 230, W=6'
7	RETURN TYPE DRIVEWAY, PEORIA DET 251
12	SINGLE CURB, TYPE A M.A.G. DET 222, H=7"
13	MEDIAN PAVING (DECORATIVE PAVEMENT)
19	MEDIAN NOSE TRANSITION M.A.G. DET 223

REDUCED SIZE DO NOT SCALE

NOTE:
TOP OF CURB ELEVATIONS ARE 7" HIGHER FOR CURB AND GUTTER

91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS PAVING PLAN AND PROFILE

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 21673 RAJESH S. CHRISTIAN DATE SIGNED 12-3-09 ARIZONA, U.S.A. Expires 09/30/2010

DESIGNED BY:	LJA
DRAWN BY:	LJA/TEM
SCALE: HORIZONTAL= 20 VERTICAL=	
SHEET	RD-05
SHEET	60 OF 104
DATE	11/2009
W.O.	

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
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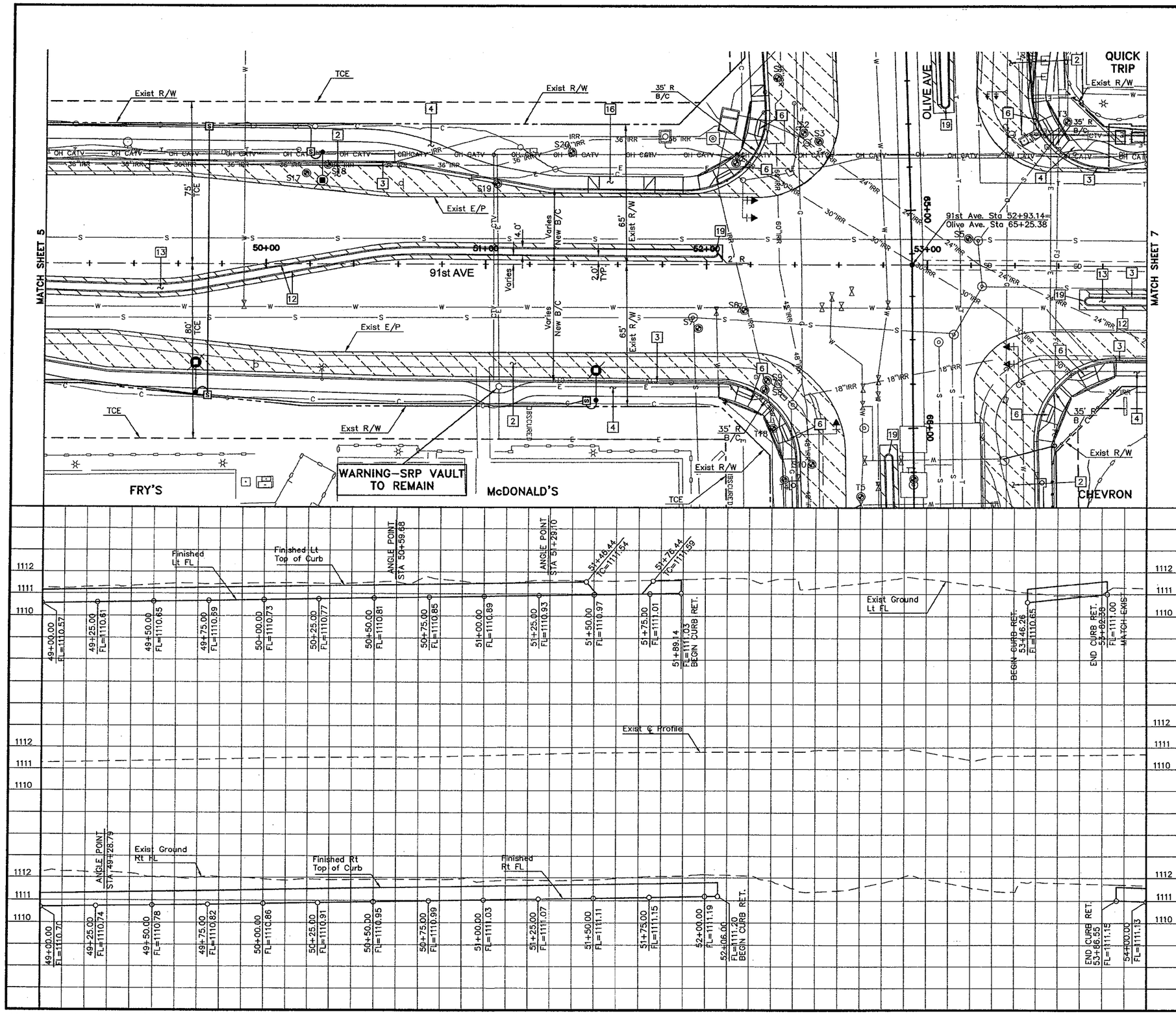
(OUTSIDE MARICOPA COUNTY)



GRAPHIC SCALE
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(IN FEET)

CONSTRUCTION NOTES

NO.	DESCRIPTION
2	NEW ASPHALT CONCRETE PAVEMENT
3	CURB & GUTTER, TYPE A M.A.G. DET 220, H=7"
4	CONCRETE SIDEWALK, M.A.G. DET 230, W=6'
6	SIDEWALK RAMP, TYPE A M.A.G. DET 231
12	SINGLE CURB, TYPE A M.A.G. DET 222, H=7"
13	MEDIAN PAVING (DECORATIVE PAVEMENT)
16	NEW DRIVEWAY ENTRANCE M.A.G. DET 250
19	MEDIAN NOSE TRANSITION M.A.G. DET 223

REDUCED SIZE
DO NOT SCALE

NOTE:
TOP OF CURB ELEVATIONS ARE 7" HIGHER FOR CURB AND GUTTER

POTHOLE LOCATION
SEE POTHOLE DATA FOR DETAILS
T=TBE GROUP
S=SAF-R-DIG

CALL TWO WORKING DAYS BEFORE YOU DIG
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1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

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CITY OF PEORIA PROJECT NO. P-0315

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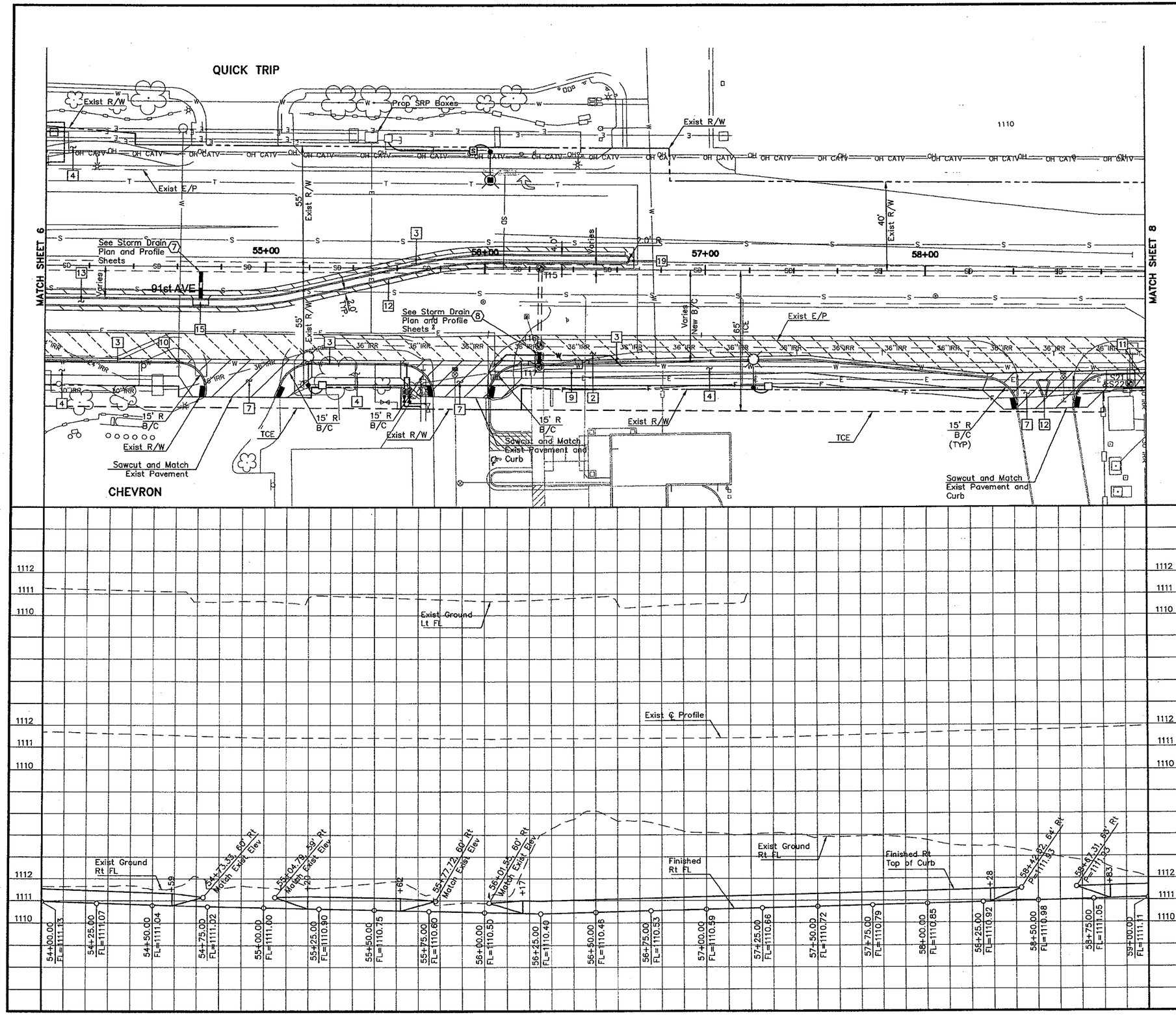
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS PAVING PLAN AND PROFILE

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO. 31673
RAJESH S. CHRISTIAN
Date Signed 12-3-09
ARIZONA, U.S.A.
Expires 09/30/2010

DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= 20 VERTICAL=	
SHEET	RD-06
SHEET	61 OF 104
DATE	11/2009
W.O.	



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ADOT TRACS NO. 000 MA PEO SS60301C
CITY OF PEORIA PROJECT NO. P-0315

REDUCED SIZE DO NOT SCALE

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)

CONSTRUCTION NOTES

NO.	DESCRIPTION
2	NEW ASPHALT CONCRETE PAVEMENT
3	CURB & GUTTER, TYPE A M.A.G. DET 220, H=7"
4	CONCRETE SIDEWALK, M.A.G. DET 230, W=6'
7	RETURN TYPE DRIVEWAY, PEORIA DET 251
9	NEW CATCH BASIN CITY OF PHOENIX DET P1581
10	ADJUST WATER VALVE, FRAME AND COVER, PEORIA DET PE-270
11	ROLL TYPE CURB, M.A.G. DET 221
12	SINGLE CURB, TYPE A M.A.G. DET 222, H=7"
13	MEDIAN PAVING (DECORATIVE PAVEMENT)
15	NEW CATCH BASIN M.A.G. DET 531
19	MEDIAN NOSE TRANSITION M.A.G. DET 223

NOTE:

TOP OF CURB ELEVATIONS ARE 7" HIGHER FOR CURB AND GUTTER

THE SIDEWALK WIDTH SHALL BE ADJUSTED TO FIT IN FRONT OF SRP IRRIGATION STRUCTURE @ STATION 54+50 RIGHT

POTHOLE LOCATION
SEE POTHOLE DATA FOR DETAILS
T=TBE GROUP
S=SAF-R-DIG

CALL TWO WORKING DAYS BEFORE YOU DIG
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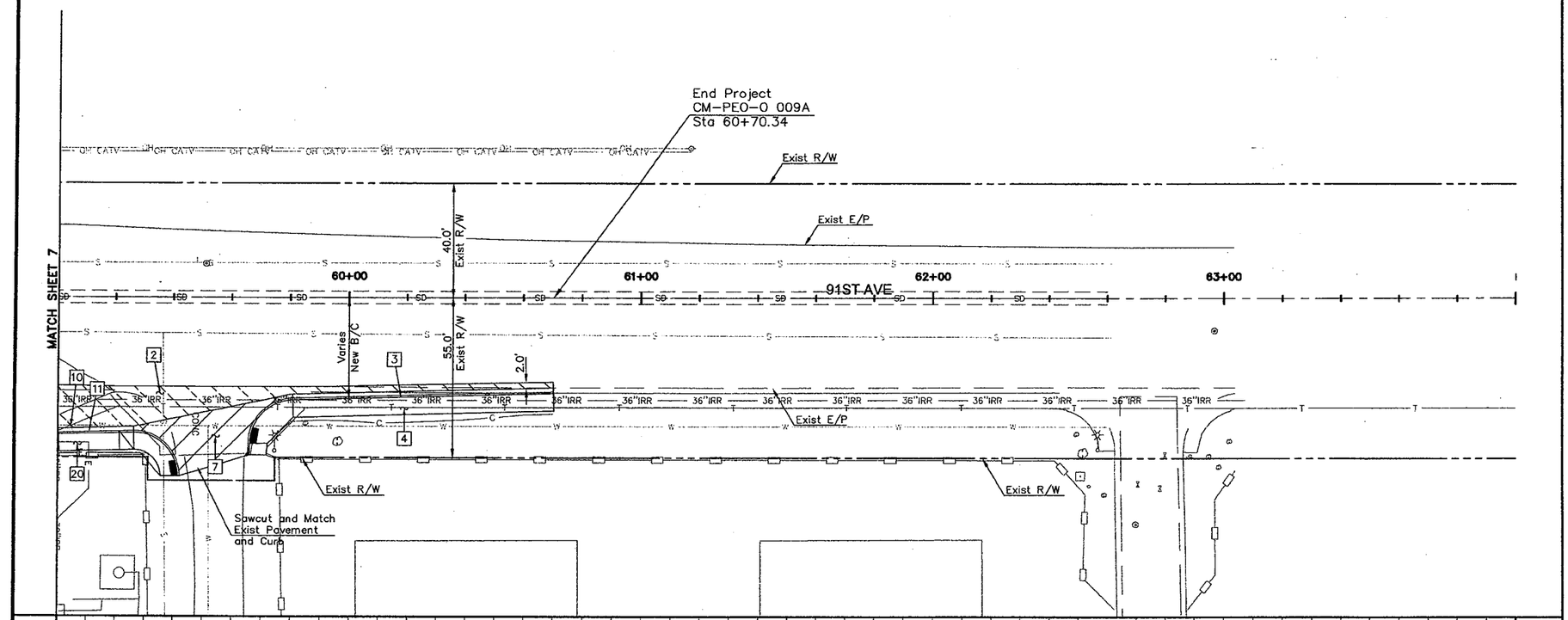
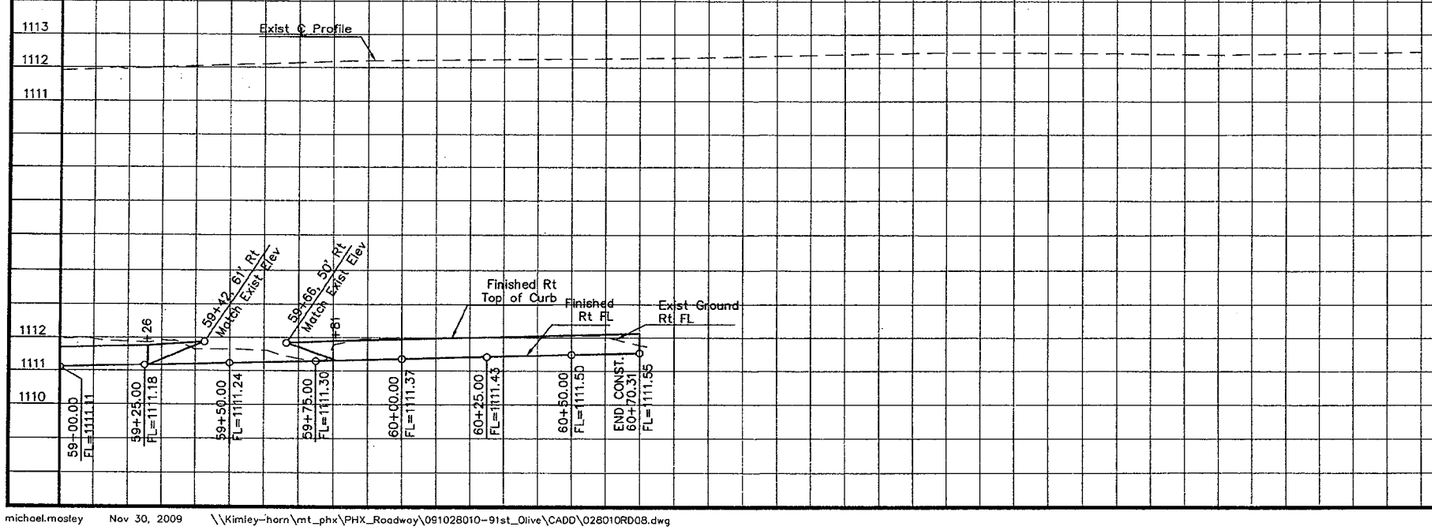
91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS PAVING PLAN AND PROFILE

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 31673 RAJESH S. CHRISTIAN Date Signed 12-8-09 ARIZONA, U.S.A. Expires 09/30/2010

DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= 20 VERTICAL=	
SHEET	RD-07
SHEET	62 OF 104
DATE	11/2009
W.O.	





GRAPHIC SCALE
20 0 10 20 40
(IN FEET)

CONSTRUCTION NOTES

NO.	DESCRIPTION
2	NEW ASPHALT CONCRETE PAVEMENT
3	CURB & GUTTER, TYPE A M.A.G. DET 220, H=7"
4	CONCRETE SIDEWALK, M.A.G. DET 230, W=6'
7	RETURN TYPE DRIVEWAY, PEORIA DET 251
10	ADJUST WATER VALVE, FRAME AND COVER, PEORIA DET PE-270
11	ROLL TYPE CURB, M.A.G. DET 220, TYPE D
20	NEW DRIVEWAY ENTRANCE M.A.G. DET 250

REDUCED SIZE
DO NOT SCALE

NOTE:
TOP OF CURB ELEVATIONS ARE 7" HIGHER FOR CURB AND GUTTER

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ADOT TRACS NO.
000 MA PEO
SS60301C

CITY OF PEORIA
PROJECT NO. P-0315

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Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS PAVING PLAN AND PROFILE

Registered Professional Engineer (Civil)
CERTIFICATE NO. 31673
RAJESH S. CHRISTIAN
Date Signed 12-3-09
ARIZONA, U.S.A.
Expires 09/30/2010

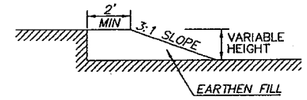
DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= 20 VERTICAL=	
SHEET	RD-08
SHEET	63 OF 104
DATE	11/2009
W.O.	

ADOT TRAFFIC CONTROL GENERAL NOTES

1. 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 STANDARD SPECIFICATIONS. ALL TRAFFIC CONTROL PLANS ARE SUBJECT TO APPROVAL OF THE ENGINEER BEFORE BEGINNING CONSTRUCTION.
2. ADJUSTMENTS TO THE DETAILS OF THESE TRAFFIC CONTROL PLANS AND REQUIREMENTS MAY BE NECESSARY DUE TO CONSTRUCTION ACTIVITIES, AS DIRECTED BY THE ENGINEER.
3. TRAFFIC CONTROL PLANS ARE TO BE PREPARED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), PART 6, 2003 EDITION, AND ADOT TRAFFIC CONTROL DESIGN GUIDELINES (TCDG), 2003.
4. ALL EXISTING SIGNS IN CONFLICT WITH THE CONSTRUCTION SIGNS SHALL BE REMOVED, RELOCATED OR COVERED IN PLACE, AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL STORE AND REINSTALL ITEMS WHICH HAVE BEEN REMOVED OR RELOCATED IN A MANNER APPROVED BY THE ENGINEER.
5. ALL CONSTRUCTION SIGNS SHALL HAVE BLACK LEGEND ON AN ORANGE FLUORESCENT SHEETING BACKGROUND, EXCEPT AS NOTED.
6. SIGN MOUNTING HEIGHT FOR RIGID POSTS IS A MINIMUM OF TWO FEET AS MEASURED FROM THE BOTTOM OF THE SIGN TO THE NEAR EDGE OF THE PAVEMENT.
7. SIGN MOUNTING HEIGHT FOR EMBEDDED POSTS SHALL BE A MINIMUM OF SEVEN FEET AND A MINIMUM OF TWO FEET FOR SPRING POSTS AS MEASURED FROM THE BOTTOM OF THE SIGN TO THE NEAR EDGE OF THE PAVEMENT.
8. 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 NIGHT TIME CONSTRUCTION SIGNS EXCEPT THE "END ROAD WORK THANK YOU" SIGN. TYPE "B" HIGH-INTENSITY FLASHING WARNING LIGHTS SHALL BE REQUIRED ON ALL ADVANCE WARNING SIGNS.
9. TYPE II BARRICADES AND VERTICAL PANELS SHALL BE PLACED 20 FEET O.C. ON TAPERS AND 40 FEET O.C. ON TANGENTS, EXCEPT AS OTHERWISE NOTED ON THE PLANS. CONE SPACING SHALL BE 20 FEET.
10. A TYPE "C" STEADY-BURNING YELLOW LIGHT SHALL BE MOUNTED ON EVERY TYPE II BARRICADE AND VERTICAL PANEL DURING NIGHTTIME ACTIVITIES FOR DELINEATING EDGE OF TRAVELED WAY.
11. SPEED LIMIT REDUCTION SIGNING IS PRELIMINARY AND IS SUBJECT FOR REVIEW AND CHANGE BY THE ENGINEER AS DICTATED BY FIELD CONDITIONS.
12. CONSTRUCTION SIGNS AND CHANGEABLE MESSAGE SIGNS SHALL NOT BE DISPLAYED TO TRAFFIC MORE THAN 24 HOURS PRIOR TO 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 COMPLETION OF THE CONSTRUCTION ACTIVITIES OR FINAL ACCEPTANCE OF THE PROJECT.
13. WHILE TRAFFIC CONTROL ITEMS ARE NOT IN USE, THE CONTRACTOR SHALL REMOVE THESE ITEMS TO A LOCATION AT LEAST 10 FEET FROM THE EDGE OF THE PAVED ROADWAY. THIS INCLUDES ALL SUPPORTS WITHOUT SIGN PANELS. ANY SIGNS WHICH ARE NOT IN USE BUT WHICH CANNOT BE MOVED AT LEAST 10 FEET FROM THE ROADWAY SHALL BE COVERED SO THE PUBLIC CAN NOT READ THE LEGENDS.
14. THE CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC ON ALL ROADWAYS AT NIGHT, ON WEEKDAYS, ON WEEKENDS, ON HOLIDAYS, AND AS DIRECTED BY THE ENGINEER.
15. ALL DRAWINGS ARE SCHEMATIC ONLY AND NOT TO SCALE.
16. SHOULDER DROP-OFFS SHALL NOT BE ALLOWED OVERNIGHT. MAINTAIN PAVEMENT HEIGHT DIFFERENCE OF TWO INCHES FOR NON-WORKING HOURS. IF A DROP-OFF OF A HEIGHT GREATER THAN TWO INCHES IS TO BE CONSTRUCTED AS SHOWN BELOW.

CITY OF PEORIA TRAFFIC CONTROL GENERAL NOTES

17. TRAFFIC/PEDESTRIAN CONTROL SHALL COMPLY WITH THE (LATEST EDITIONS) TO MUTCD PART 6, CITY OF PHOENIX BARRICADE MANUAL, MAG SECTION 401, CITY OF PEORIA INFRASTRUCTURE GUIDE, OR ANY SPECIAL CONDITIONS REQUIRED BY THE CITY OF PEORIA.
18. A COPY OF THE ACCEPTED TRAFFIC CONTROL PLANS (TCP) SHALL BE ON SITE AT ALL TIMES DURING CONSTRUCTION AND AVAILABLE FOR REVIEW BY THE CITY OF PEORIA.
19. TRAFFIC DIVERSIONS ONTO ANY UNIMPROVED SHOULDER SHALL BE MAINTAINED FOR DUST CONTROL AND SHALL MAINTAIN A SAFE DRIVABLE SURFACE AT ALL TIMES.
20. ALL TRAFFIC CONTROL FLAGGERS SHALL BE PROPERLY TRAINED, EQUIPPED AND COMPETENT.
21. TRENCH PLATING SHALL BE REQUIRED AND INSTALLED PER THE CITY OF PEORIA STANDARD DETAIL #211.
22. LAW ENFORCEMENT OFFICERS SHALL BE REQUIRED WHEN ANY PART OF THE TCP EXTENDS TO WITHIN 300' FT. OF A SIGNALIZED INTERSECTION. OFFICERS MAY BE REQUIRED FOR NON-SIGNALIZED CONSTRUCTION AREAS AT THE DISCRETION OF THE CITY OF PEORIA.
23. THREE (3) WORKING DAYS NOTICE IS REQUIRED FOR TCP REVIEW.



NOTE:
USE WHEN THE HEIGHT OF THE DROP-OFF ALONGSIDE THE PAVEMENT IS GREATER THAN 1-1/2 INCHES AND THE CONDITION IS LEFT DURING NON-WORKING HOURS.

VARIABLE DEPTH FILLET DETAIL

ITEM NO.	ITEM	UNIT	ACTIVITY NO. 1	ACTIVITY NO. 2	ACTIVITY NO. 3	ACTIVITY NO. 4	ACTIVITY NO. 5	ACTIVITY NO. 6	ACTIVITY NO. 7	TOTAL*
	ACTIVITY DURATION	DAYS***	106	66	10	15	1	3	3	106**
7015091	SPECIALTY SIGNS (ALL SHEETING TYPES)	SQ.FT.	---	---	---	---	---	72	---	72
7016030	BARRICADE (TYPE II, VERT.PANEL, TUBULAR MARKER)	EACH-DAY	---	8,712	950	165	64	---	---	9,891
7016031	BARRICADE (TYPE III, HIGH LEVEL FLAG TREES)	EACH-DAY	---	---	---	---	---	15	---	15
7016033	PORTABLE SIGN STANDS (SPRING TYPE)	EACH-DAY	---	6,336	280	300	32	30	3	6,981
7016035	WARNING LIGHTS (TYPE A)	EACH-DAY	1,908	6,336	280	---	32	---	---	8,556
7016037	WARNING LIGHTS (TYPE C)	EACH-DAY	---	8,712	950	---	64	---	---	9,726
7016038	TRAFFIC CONE (28 INCHES)	EACH-DAY	---	---	---	---	---	237	18	255
7016039	EMBEDDED SIGN POST	EACH-DAY	3,816	---	---	---	---	---	---	3,816
7016051	TEMPORARY SIGN (LESS THAN 10 S.F.) (ALL SHEETING TYPES)	EACH-DAY	1,060	5,544	80	180	32	30	3	6,929
7016052	TEMPORARY SIGN (GREATER THAN 10 S.F.) (ALL SHEETING TYPES)	EACH-DAY	848	792	200	120	---	---	---	1,960
7016061	FLASHING ARROW PANEL	EACH-DAY	---	528	80	60	4	---	---	672
7016075	FLAGGING SERVICES (CIVILIAN)	HOUR	---	243	---	60	---	---	---	303
7016078	FLAGGING SERVICES (LOCAL ENFORCEMENT OFFICER)	HOUR	---	528	80	60	---	---	---	668

* TOTAL QUANTITIES ARE ROUNDED

** TOTAL ACTIVITY DURATION INCLUDES MOBILIZATION, DEMOBILIZATION, AND A 30-DAY CURING PERIOD FOR PERMANENT STRIPING ON NEW PAVEMENT.

*** QUANTITY REPRESENTS CALENDAR DAYS.

REDUCED SIZE
DO NOT SCALE

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(OUTSIDE MARICOPA COUNTY)

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ADOT TRACS NO.
000 MA PEO
SS 60301C

CITY OF PEORIA
PROJECT NO. P-0315

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7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
TRAFFIC CONTROL GENERAL
NOTES AND QUANTITIES

Registered Professional Engineer (Civil) CERTIFICATE NO. 39165 RAY P. VARRAGUIRRE Date Signed 11-30-09 ARIZONA, U.S.A. Expires 06/30/2010

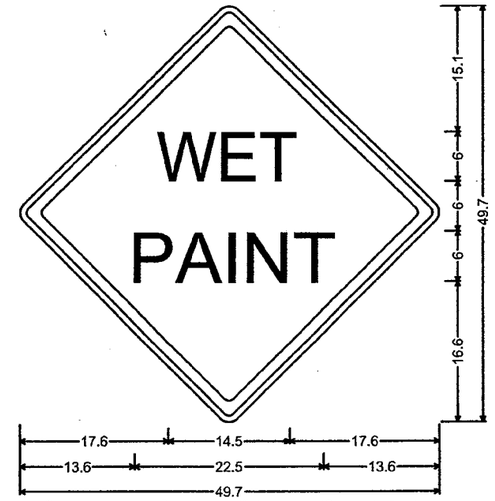
DESIGNED BY: TMM
DRAWN BY: MAR
SCALE:
HORIZONTAL=
VERTICAL=
SHEET TC-01
SHEET 64 OF 104
DATE 11/2009
W.O.

MAINTENANCE OF TRAFFIC

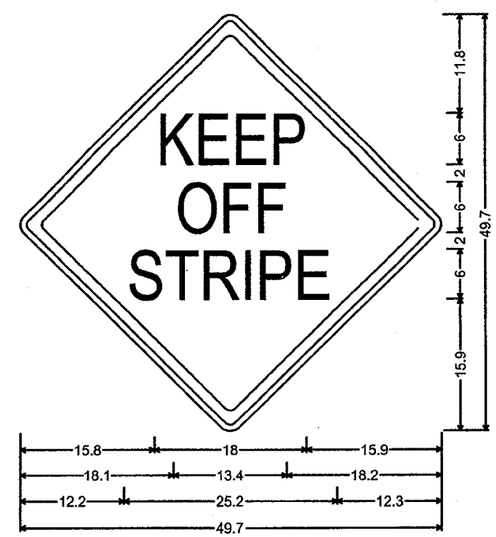
ACTIVITY NO.	CONSTRUCTION ACTIVITY	TRAFFIC CONTROL	COMMENTS
1	PLACE ADVANCED WARNING SIGNS	OLIVE AVE: PROVIDE ADVANCE WARNING SIGNS AS SHOWN ON DETAIL A. 91ST AVE: PROVIDE ADVANCE WARNING SIGNS AS SHOWN ON DETAIL B.	SIGNS ARE PERMANENT FOR THE DURATION OF THE WORK AND ARE TO BE PLACED ON EMBEDDED POSTS.
2	SAWCUT PAVEMENT AND CONSTRUCT ROADWAY WIDENING	TRAFFIC CONTROL SHALL BE AS PER FIGURE 6H-3 OF THE MUTCD, AND PER FIGURE SA-5(R) OF THE ADOT TCDG. TRAFFIC CONTROL FOR CROSSWALK ACCESS AND PEDESTRIAN DETOURS SHALL BE AS SHOWN IN FIGURE 6H-29 OF THE MUTCD. REDUCE THE SPEED LIMIT TO 30 MPH THROUGH THE CONSTRUCTION AREA DURING WORKING HOURS.	USE VERTICAL PANELS FOR TAPERS AND TANGENT SECTIONS. PROVIDE FLAGGING SERVICES FOR FOR DEBRIS REMOVAL OPERATION AND HAUL TRUCKS. PROVIDE AN OFF-DUTY UNIFORMED POLICE OFFICER WITH VEHICLE TO CONTROL SPEED DURING WORKING HOURS. MAINTAIN BUSINESS AND PEDESTRIAN ACCESS.
3	CONSTRUCT RAISED MEDIAN AND MEDIAN CATCH BASINS	PROVIDE TRAFFIC CONTROL AS PER FIGURES 6H-15 AND 6H-23 OF THE MUTCD. REDUCE THE SPEED LIMIT TO 30 MPH THROUGH THE CONSTRUCTION AREA DURING WORKING HOURS.	USE VERTICAL PANELS FOR TAPERS AND TANGENT SECTIONS. PROVIDE FLASHING ARROW PANELS AT THE BEGINNING OF ALL LANE CLOSURES. PROVIDE AN OFF-DUTY UNIFORMED POLICE OFFICER WITH VEHICLE TO CONTROL SPEED DURING WORKING HOURS.
4	CONSTRUCT TRAFFIC SIGNALS	TRAFFIC CONTROL FOR SIGNAL CONSTRUCTION SHALL BE AS SHOWN ON FIGURES 6H-22 AND 6H-27 OF THE MUTCD.	USE VERTICAL PANELS FOR TAPERS AND TANGENT SECTIONS. PROVIDE FLAGGING SERVICES AND AN OFF-DUTY UNIFORMED POLICE OFFICER FOR SIGNAL POLE, MAST ARM, AND CONDUIT INSTALLATIONS. MAINTAIN BUSINESS AND PEDESTRIAN ACCESS.
5	CONSTRUCT STORM DRAIN PIPE	TRAFFIC CONTROL FOR TRENCHING AND BACKFILL ACROSS OLIVE AVENUE SHALL BE AS SHOWN ON FIGURES SA-5(L) AND SA-5(R) OF THE ADOT TCDG.	USE VERTICAL PANELS FOR TAPERS AND TANGENT SECTIONS. FOR ALL TRENCHES LEFT OPEN OVERNIGHT, THE CONTRACTOR SHALL COVER THEM WITH STEEL PLATES. COST OF STEEL PLATES IS INCIDENTIAL TO PROJECT.
6	OBLITERATE EXISTING AND INSTALL PERMANENT PAVEMENT MARKINGS.	PROVIDE TRAFFIC CONTROL AS PER FIGURE 6H-24 OF THE MUTCD, AND PER FIGURES SA-6, SA-7, AND SA-8 OF THE ADOT TCDG. PLACE TWO WARNING SIGNS (SPECIALTY SIGNS) WITH THE MESSAGE "WET PAINT" AND "KEEP OFF STRIPE" 500 FEET FROM THE BEGINNING OF THE STRIPING OPERATION.	USE TRAFFIC CONES FOR TAPERS AND TANGENT SECTIONS. TEMPORARY STRIPING WILL NOT BE REQUIRED. SEE SPECIALTY SIGN FORMAT DETAIL THIS SHEET.
7	INSTALL SIGNING	PROVIDE TRAFFIC CONTROL SIMILAR TO FIGURE 6H-4 OF THE MUTCD. TRUCK MOUNTED ATTENUATOR WILL NOT BE REQUIRED.	

NOTE:

ORDER OF CONSTRUCTION ACTIVITIES IN MAINTENANCE OF TRAFFIC DOES NOT CONSTITUTE A SEQUENCE OF CONSTRUCTION EVENTS.



36.0" across sides 1.5" Radius, 1.3" Border, 0.8" Indent, Black on Orange; [WET] D; [PAINT] D;



36.0" across sides 1.5" Radius, 1.3" Border, 0.8" Indent, Black on Orange; [KEEP] D 75% spacing; [OFF] D 75% spacing; [STRIPE] D 75% spacing;

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CITY OF PEORIA PROJECT NO. P-0315

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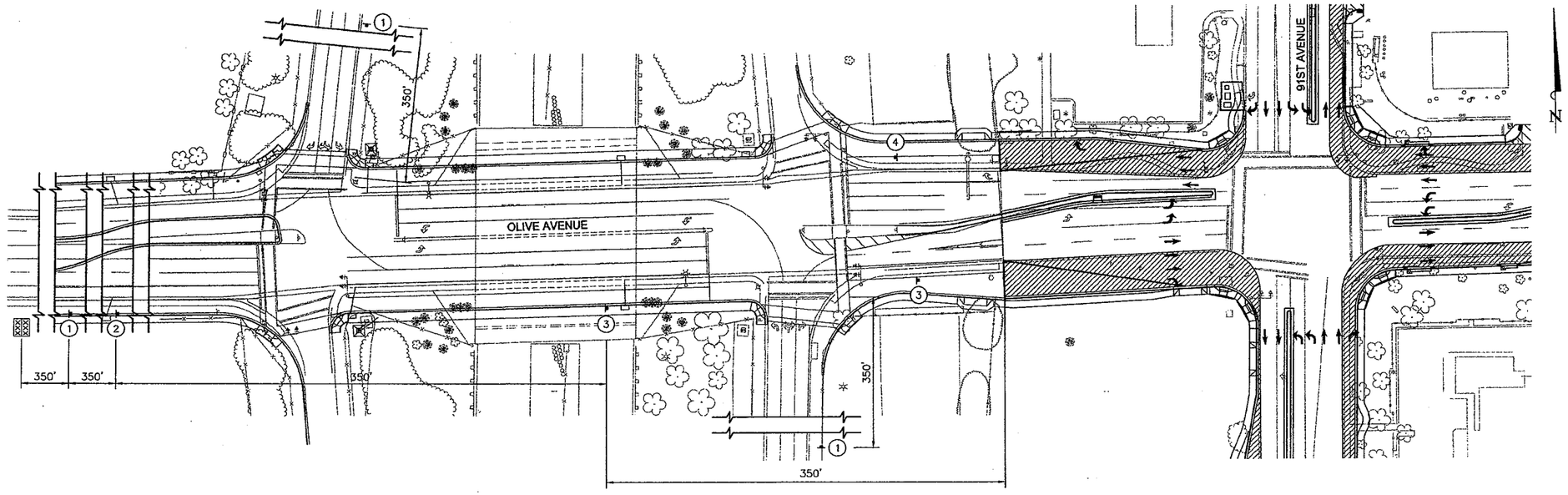
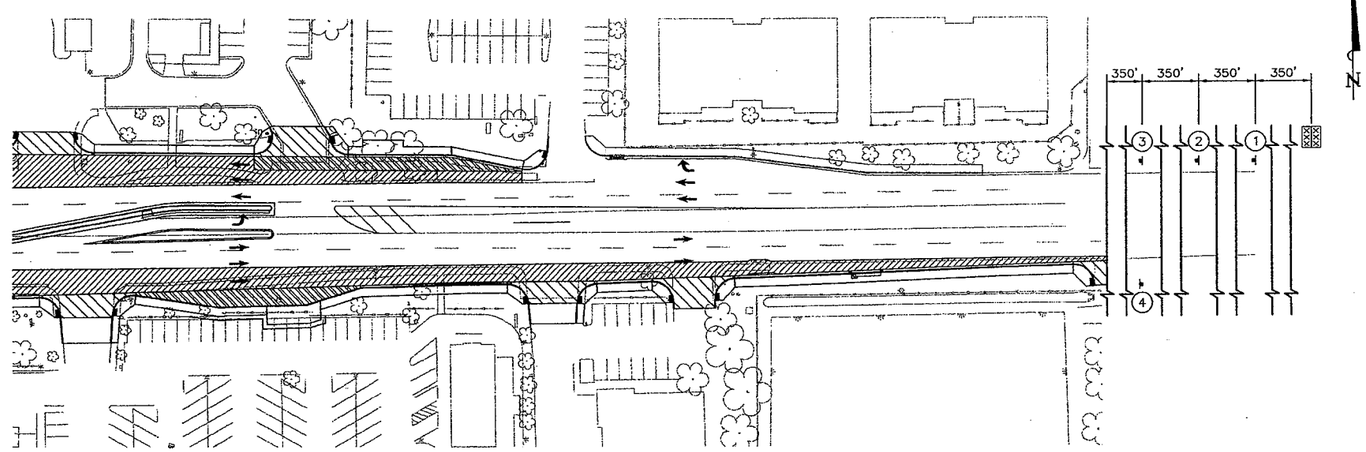
91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
TRAFFIC CONTROL
MAINTENANCE OF TRAFFIC

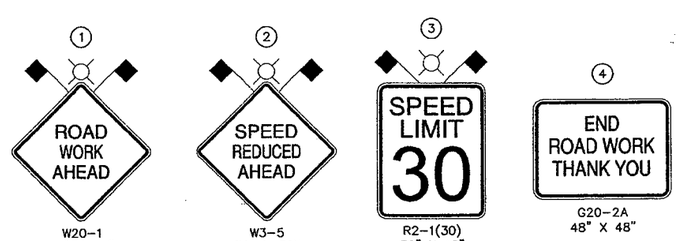
Registered Professional Engineer (Civil) CERTIFICATE NO. 39165 RAY F. PARRAGUIRRE Date Signed 11/30/09 ARIZONA, U.S.A. Expires 06/30/2012

DESIGNED BY: TMM	
DRAWN BY: MAR	
SCALE: HORIZONTAL= VERTICAL=	
SHEET	TC-02
SHEET	65 OF 104
DATE	11/2009
W.O.	





SIGN LEGEND:



LEGEND:

- SIGN WITH RIGID STAND
- WORK ZONE
- DIRECTION OF TRAVEL
- CHANGEABLE MESSAGE SIGN

NOTE:

1. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL BUSINESSES OR AS DIRECTED BY THE ENGINEER. SEE SPECIAL PROVISIONS.

REDUCED SIZE DO NOT SCALE

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)

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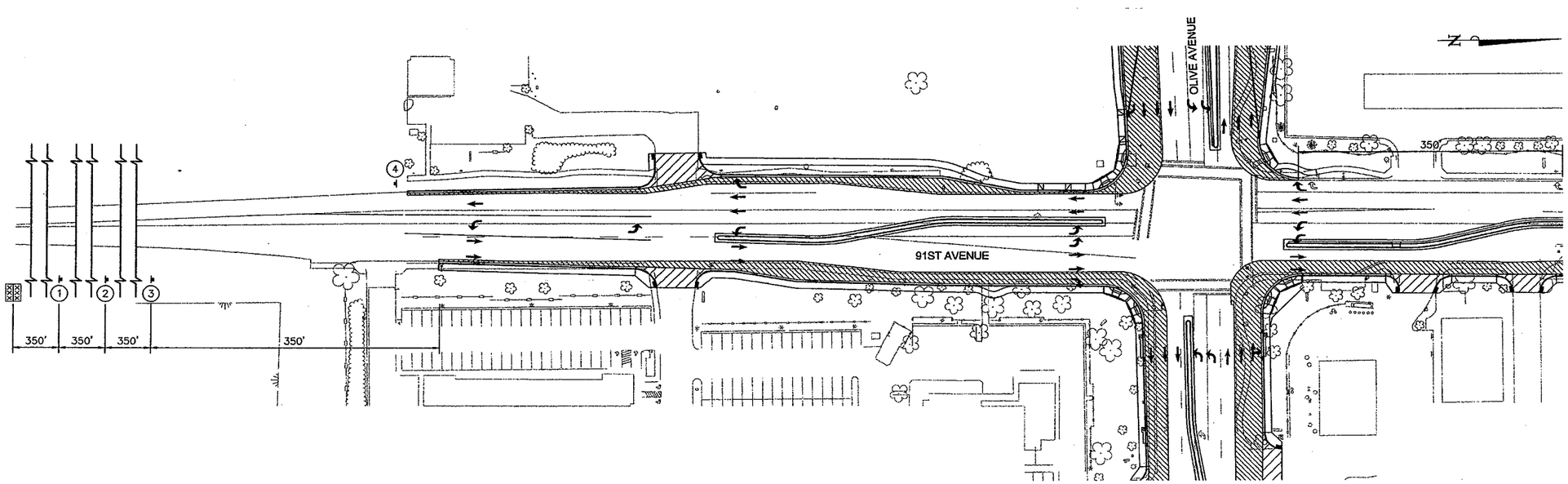
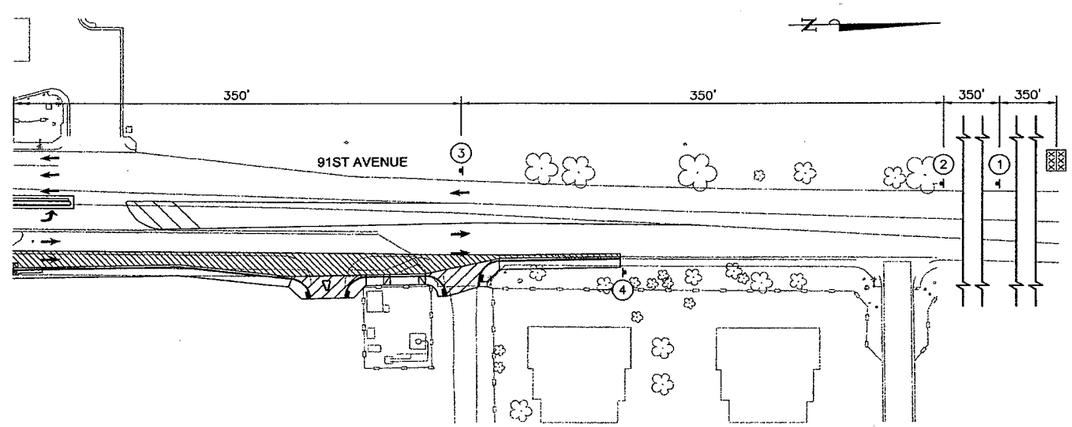
91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
TRAFFIC CONTROL- ADVANCE WARNING SIGNS
OLIVE AVENUE- DETAIL A

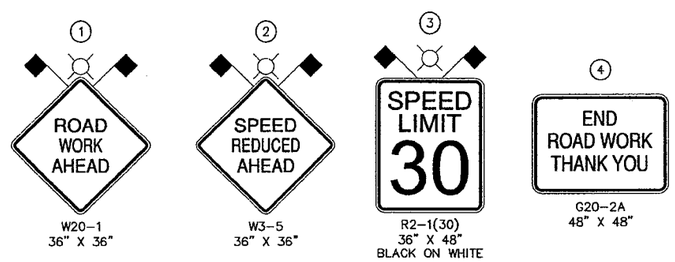
Registered Professional Engineer (Civil)
CERTIFICATE NO. 39165
RAY P. YPARRAGUIRRE
Date Signed 11/4/09
ARIZONA, U.S.A.
Expires 06/30/2012

DESIGNED BY: TMM	
DRAWN BY: MAR	
SCALE: HORIZONTAL= VERTICAL=	
SHEET	TC-03
SHEET	66 OF 104
DATE	11/2009
W.O.	





SIGN LEGEND:



LEGEND:

- SIGN ON EMBEDDED POST
- WORK ZONE
- DIRECTION OF TRAVEL
- CHANGEABLE MESSAGE SIGN

NOTE:

1. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL BUSINESSES OR AS DIRECTED BY THE ENGINEER. SEE SPECIAL PROVISIONS.

REDUCED SIZE DO NOT SCALE

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)

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91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
TRAFFIC CONTROL- ADVANCE WARNING SIGNS
91ST AVENUE- DETAIL B

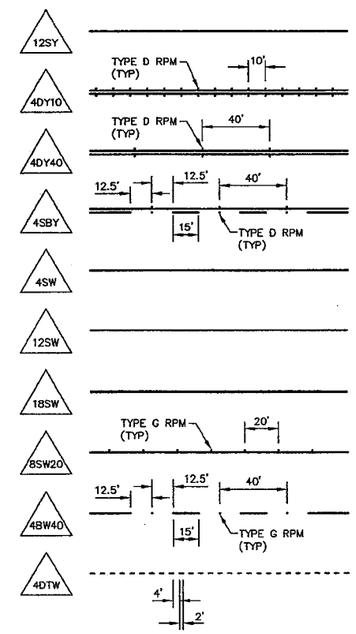
Registered Professional Engineer (Civil) CERTIFICATE NO. 39165 RAY P. YPARRAGUIRRE Date Signed 11-30-09 ARIZONA, U.S.A. Expires 06/30/2012

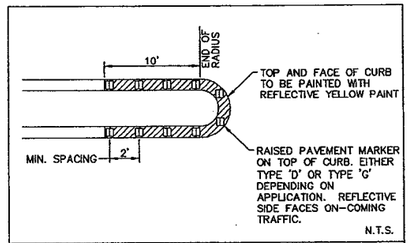
DESIGNED BY: TMM	
DRAWN BY: MAR	
SCALE: HORIZONTAL= VERTICAL=	
SHEET	TC-04
SHEET	67 OF 104
DATE	11/2009
W.O.	

SIGNING AND STRIPING GENERAL NOTES:

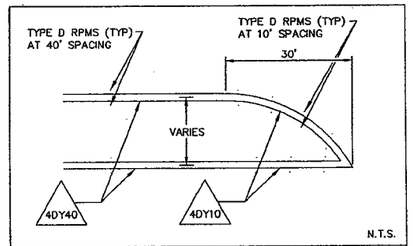
1. THE CONTRACTOR SHALL NOTIFY THE CITY OF PEORIA'S ENGINEERING INSPECTION DIVISION AT LEAST 48 HOURS IN ADVANCE OF ANY STRIPING AT (623)733-8445. STRIPING COMPLETED PRIOR TO THE CITY'S INSPECTION SHALL BE REMOVED IF IT IS NOT CONSISTENT WITH CITY STANDARDS.
2. THE OBLITERATION OF STRIPING SHALL BE ACCOMPLISHED BY WATER BLASTING OR OTHER METHODS APPROVED BY THE CITY.
3. ALL PAVEMENT MARKING SHALL BE THERMOPLASTIC AND IN ACCORDANCE WITH THE CITY OF PEORIA'S STANDARDS. CROSSWALK, STOP BAR, AND TURN ARROW PAVEMENT MARKING INSTALLATIONS SHALL BE ALKYD THERMOPLASTIC MATERIAL AND APPLIED AT 90 MIL THICKNESS.
4. FIRE HYDRANTS WITHIN THE PROJECT LIMITS SHALL BE IDENTIFIED WITH BLUE RPM'S PER CITY OF PEORIA DETAIL 362.
5. SIGNING SHALL BE INSTALLED AS PER THE CITY OF PEORIA DETAILS PE-032.
6. ALL SIGNS ARE TO BE ASTM TYPE IV HIGH INTENSITY SHEETING.
7. ALL SIGNS ARE TO BE PROVIDED AND INSTALLED BY THE CONTRACTOR PER THE APPROVED PLANS.
8. THE CONTRACTOR SHALL RETURN ALL REMOVED TRAFFIC SIGNAL EQUIPMENT/SIGNS TO THE CITY OF PEORIA MUNICIPAL OPERATIONS CENTER, 8850 NORTH 79TH AVENUE. CONTACT THE TRAFFIC MAINTENANCE SUPERVISOR AT (623)773-7456.
9. SIGNING AND STRIPING INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) ADOPTED BY THE ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT).
10. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TO THE FACE OF CURB AND THE CENTER OF THE STRIPE. IN THE CASE OF A DOUBLE STRIPE, DIMENSION IS TO THE CENTER OF THE DOUBLE STRIPE.
11. THE CONTRACTOR SHALL CONTACT ALL UTILITIES FOR BLUE STAKE LOCATIONS PRIOR TO ANY CONSTRUCTION ACTIVITY.
12. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL DURING CONSTRUCTION PER THE CITY OF PHOENIX TRAFFIC BARRICADE MANUAL AND THE LATEST MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) APPROVED BY ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT).
13. THE CONTRACTOR SHALL PROVIDE AN OFF DUTY POLICE OFFICER ANY TIME THERE IS CONSTRUCTION WITHIN 300 FEET OF A SIGNALIZED INTERSECTION.
14. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE CITY OF PEORIA PRIOR TO CONSTRUCTION.

STRIPING LEGEND

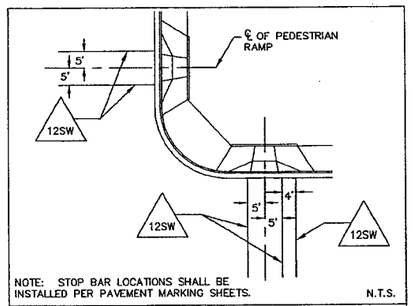




TYPICAL RAISED MEDIAN END TREATMENT



TYPICAL STRIPED MEDIAN NOSE DETAIL



TYPICAL CROSSWALK AND STOP BAR DETAIL

APPROXIMATE PAVEMENT MARKING QUANTITIES					
ITEM NO.	DESCRIPTION		UNIT	PAVEMENT MARKING (ACTUAL QUANTITY)	PAVEMENT MARKING *(PAY QUANTITY)
	PERMANENT PAVEMENT MARKING QUANTITIES				
7040003	PAVEMENT MARKING (WHITE SPRAYED THERMOPLASTIC)(0.060")	4"	L.FT.	4560	4560
		8"	L.FT.	2425	4850
7040004	PAVEMENT MARKING (YELLOW SPRAYED THERMOPLASTIC)(0.060")	4"	L.FT.	6550	6550
7040024	PAVEMENT SYMBOL (WHITE SPRAYED THERMOPLASTIC) (0.090")	SINGLE ARROW	EACH	16	16
7040072	PAVEMENT MARKING (TRANSVERSE)(THERMOPLASTIC)(ALKYD)(0.090")	12"	L.FT.	1145	3435
7060013	PAVEMENT MARKER, RAISED, TYPE C		EACH	181	181
7060015	PAVEMENT MARKER, RAISED, TYPE D		EACH	352	352
	PERMANENT PAVEMENT MARKING QUANTITIES				
	(AFTER COMPLETION OF LOOP 101 PROJECT)				
7015051	OBLITERATE PAVEMENT MARKING (ARROW, SYMBOL, OR LEGEND)		EACH	4	4
7015052	OBLITERATE PAVEMENT MARKING (STRIPE)		L.FT.	1145	1145
7040003	PAVEMENT MARKING (WHITE SPRAYED THERMOPLASTIC)(0.060")	4"	L.FT.	715	715
		8"	L.FT.	485	970
7040024	PAVEMENT SYMBOL (WHITE SPRAYED THERMOPLASTIC) (0.090")	SINGLE ARROW	EACH	2	2
7060015	PAVEMENT MARKER, RAISED, TYPE D		EACH	43	43

* PAY QUANTITIES HAVE BEEN ROUNDED

STRIPE OBLITERATION TABLE			
ROADWAY	DIRECTION	BEGIN STA.	END STA.
OLIVE AVE	EB	62+65	77+30
OLIVE AVE	WB	62+65	77+30
91ST AVE	NB	43+29	62+43
91ST AVE	SB	43+29	62+43

APPROXIMATE SIGNING QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
6070046	FOUNDATION FOR SIGN POST (P-1) (PERFORATED)	EACH	26
6070054	SIGN POST (PERFORATED) (2S)	LIN. FT.	250
6080003	REGULATORY, WARN, OR MARKER SIGN PANEL W/TYP III/IV SHEET	SQ. FT.	179
6080101	MISCELLANEOUS WORK (SIGNS)	L. SUM.	1
7030080	OBJECT MARKER (M-23) (TYPE 3 (1))	EACH	6

REDUCED SIZE
DO NOT SCALE

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(OUTSIDE MARICOPA COUNTY)

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ADOT TRACS NO. 000 MA PEO SS60301C
CITY OF PEORIA PROJECT NO. P-0315

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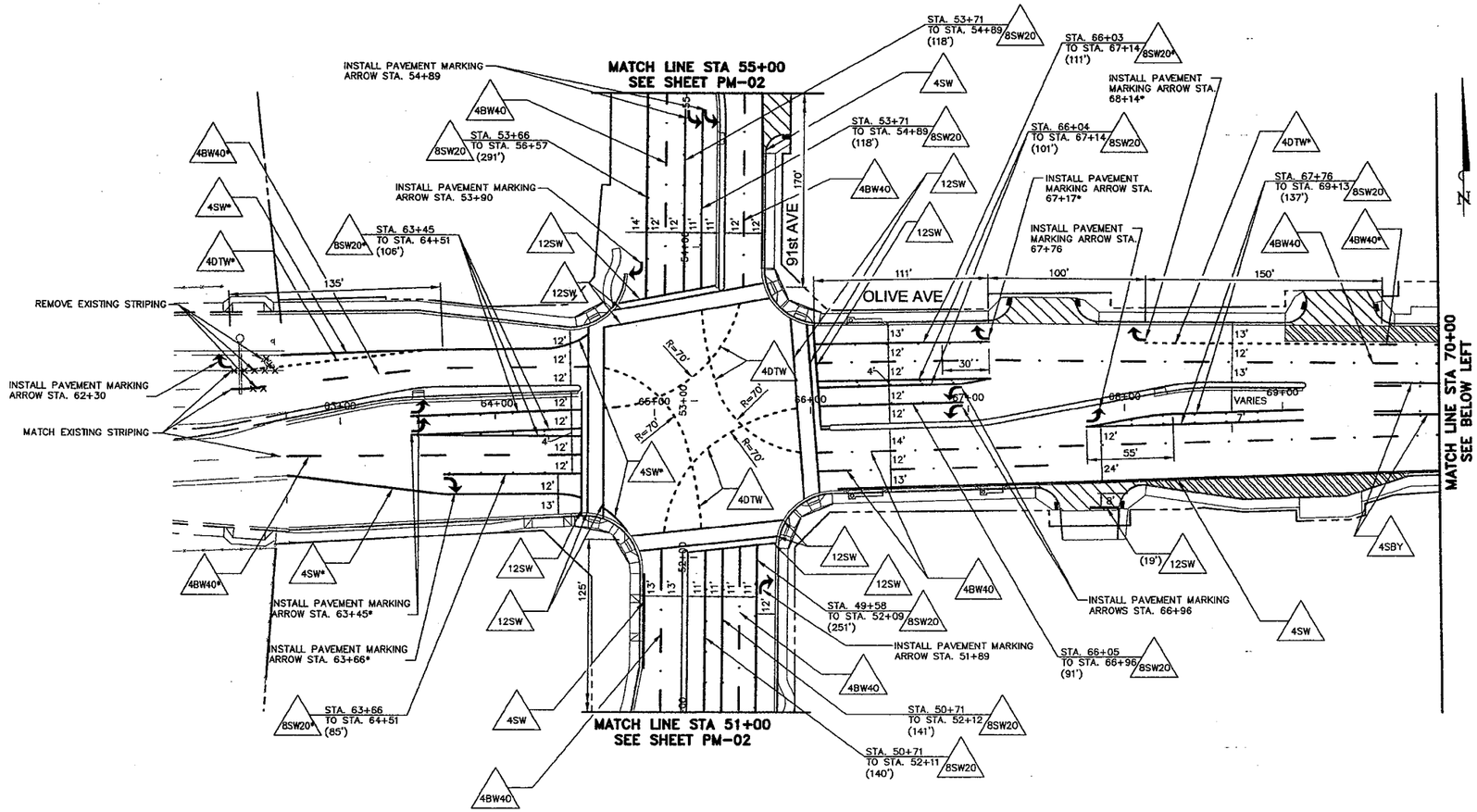
7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

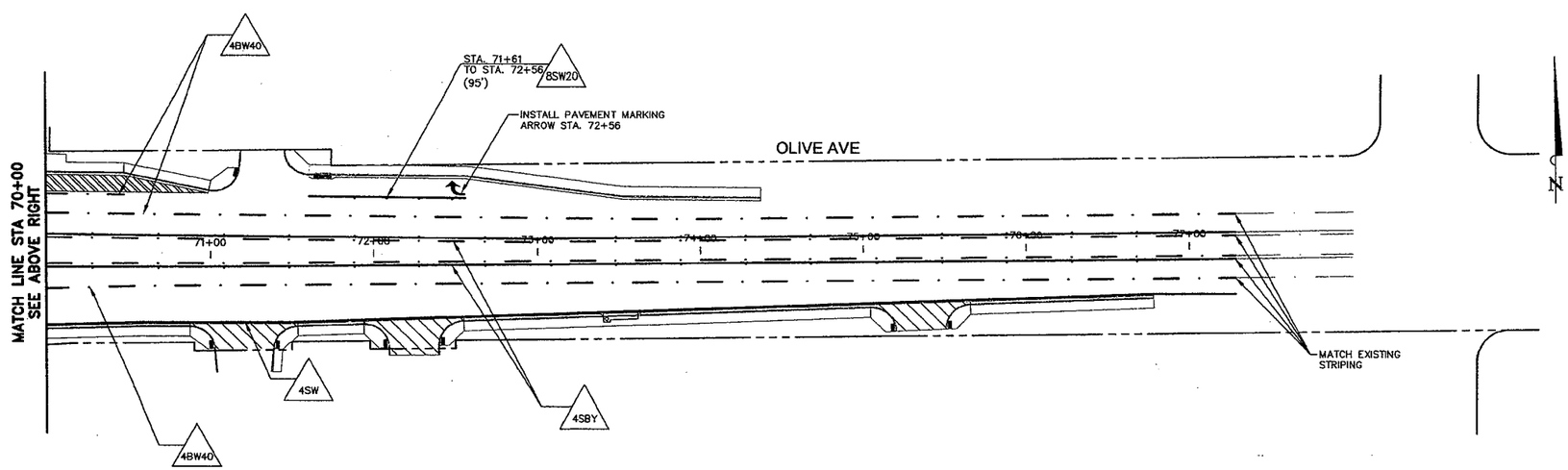
91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
SIGNING AND MARKING GENERAL NOTES

Registered Professional Engineer (Civil)
CERTIFICATE NO. 39165
RAY P. YPARRAGUIRRE
Date Signed 11-30-09
ARIZONA, U.S.A.
Expires 06/30/2010

DESIGNED BY: MJS
DRAWN BY: MJS
SCALE:
HORIZONTAL=
VERTICAL=
SHEET SN-01
SHEET 68 OF 104
DATE 11/2009
W.O.

* Interim Pavement Marking Material. Will be updated after completion of the Olive Avenue widening at the Loop 101 interchange.





REDUCED SIZE
DO NOT SCALE

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

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CITY OF PEORIA PROJECT NO. P-0315

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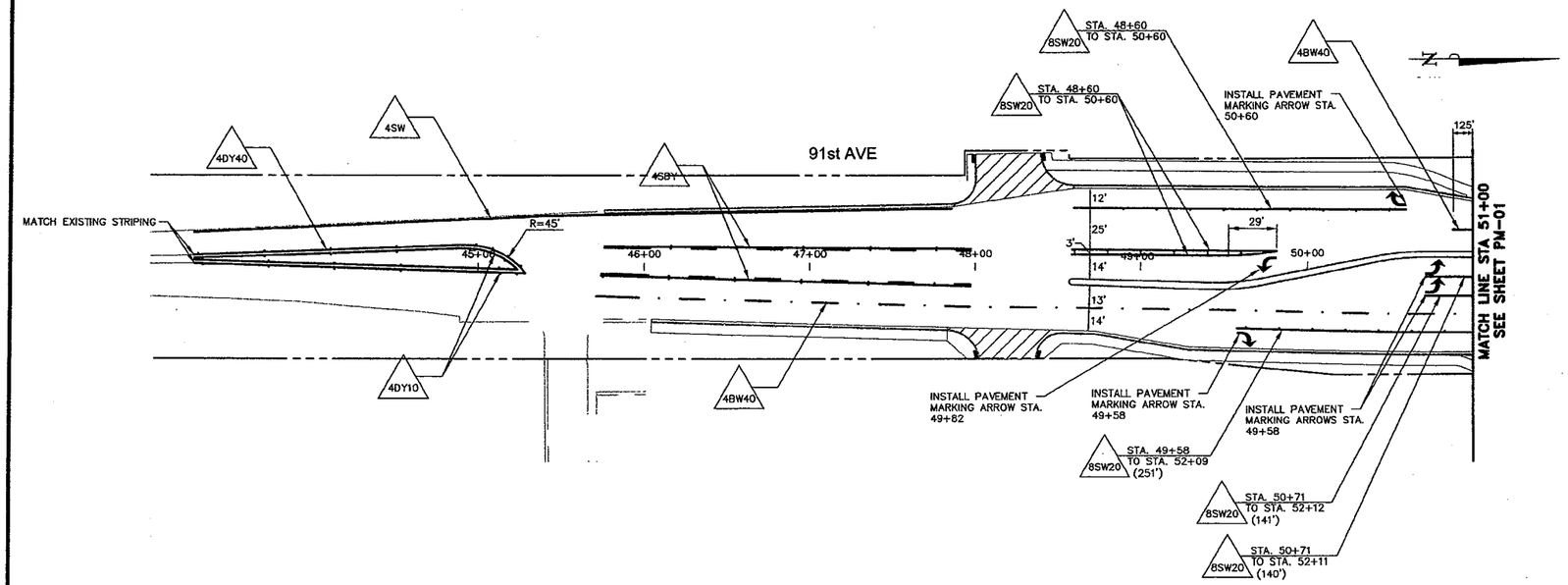
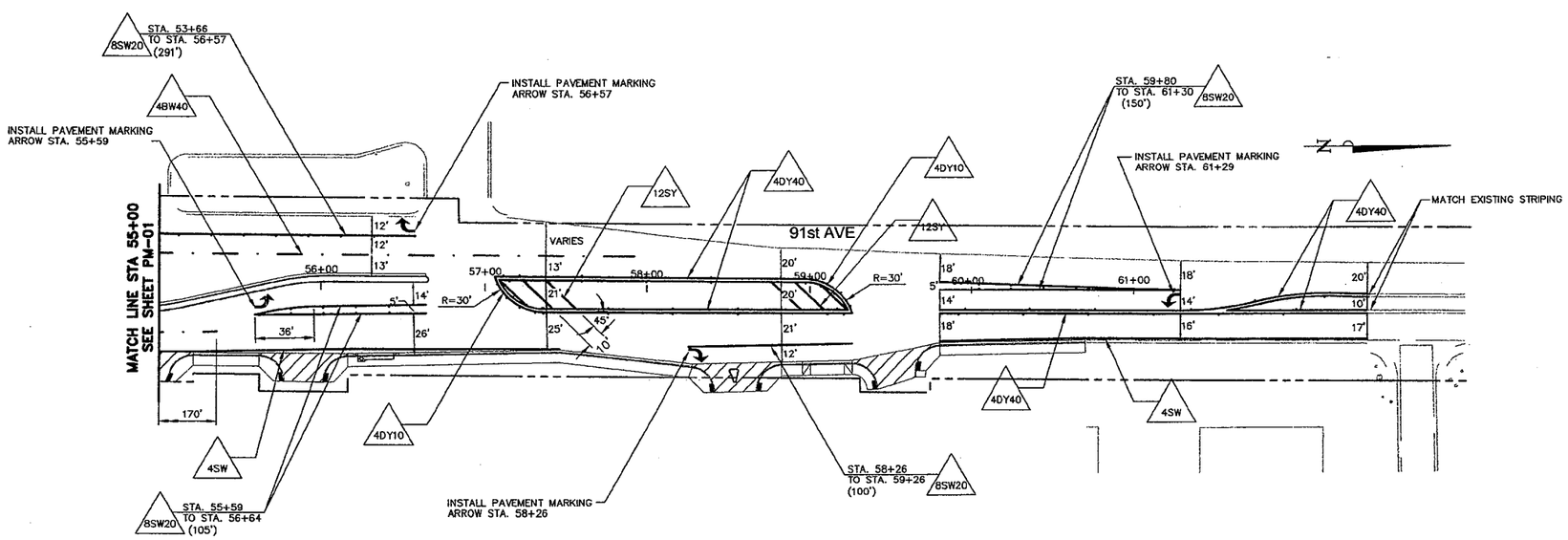
91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS
PAVEMENT MARKING SHEET

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO. 39165
RAY P. YPARRAGUIRRE
Date Signed 11/18/09
ARIZONA, U.S.A.
Expires 06/30/2010

DESIGNED BY:	MJS
DRAWN BY:	MJS
SCALE: HORIZONTAL= VERTICAL=	40
SHEET	PM-01
SHEET	69 OF 104
DATE	11/2009
W.O.	





REDUCED SIZE
DO NOT SCALE

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL TEN WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

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ADOT TRACS NO. 000 MA PEO SS60301C
CITY OF PEORIA PROJECT NO. P-0315

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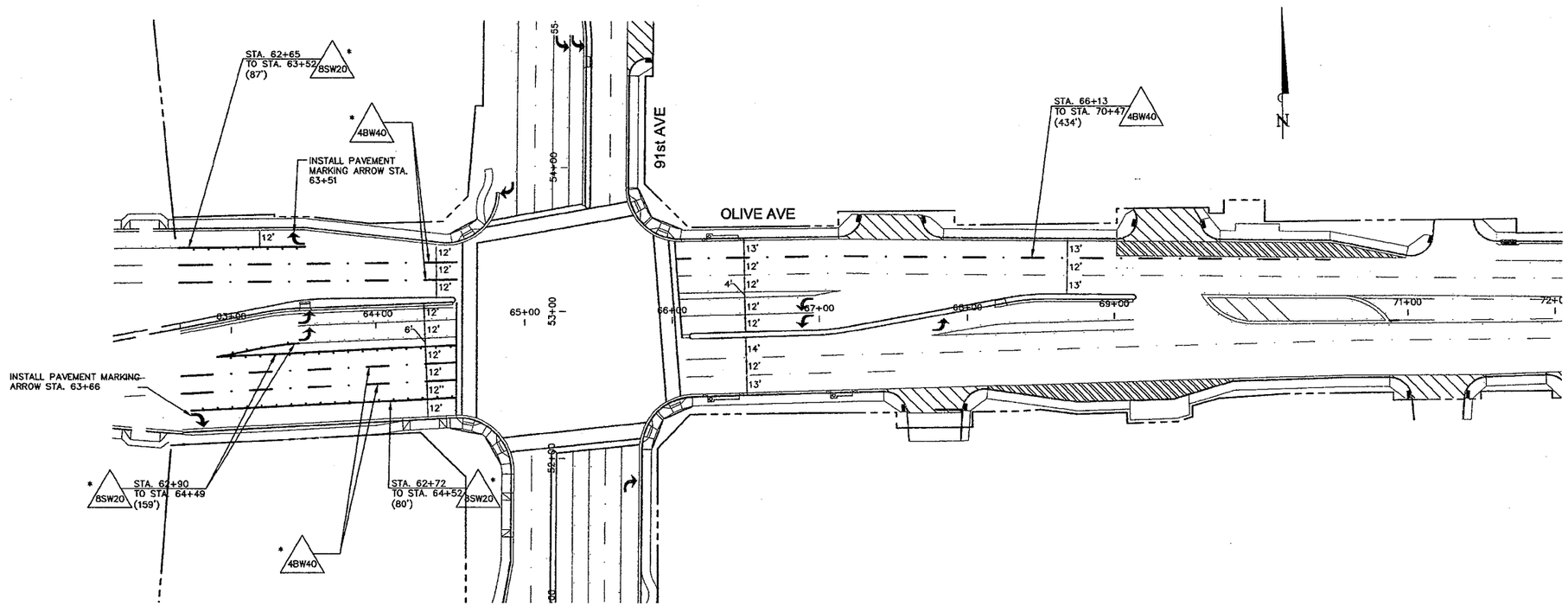
91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS PAVEMENT MARKING SHEET

REGISTERED PROFESSIONAL ENGINEER (Civil) CERTIFICATE NO. 39165 RAY P. YPARRAGUIRRE ARIZONA, U.S.A. Expires 06/30/2011

DESIGNED BY:	MJS
DRAWN BY:	MJS
SCALE: HORIZONTAL= VERTICAL=	40
SHEET	PM-02
SHEET	70 OF 104
DATE	11/2009
W.O.	

APPROXIMATE PAVEMENT MARKING QUANTITIES					
ITEM NO.	DESCRIPTION		UNIT	PAVEMENT MARKING (ACTUAL QUANTITY)	PAVEMENT MARKING *(PAY QUANTITY)
	INTERIM PAVEMENT MARKING QUANTITIES				
	(PRIOR TO COMPLETION OF LOOP 101 PROJECT)				
* 7080001	PERMANENT PAVEMENT MARKING (PAINTED) (WHITE)	4"	L.FT.	765	765
*		8"	L.FT.	195	390
* 7080121	PERMANENT PAVEMENT MARKING (PAINTED SYMBOL) (ARROW)	SINGLE ARROW	EACH	4	4

* FOR INFORMATION PUROSES ONLY.



* FOR INFORMATION PUROSES ONLY.

REDUCED SIZE
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GRAPHIC SCALE
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(IN FEET)

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1-800-STAKE-IT
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CITY OF PEORIA PROJECT NO. P-0315

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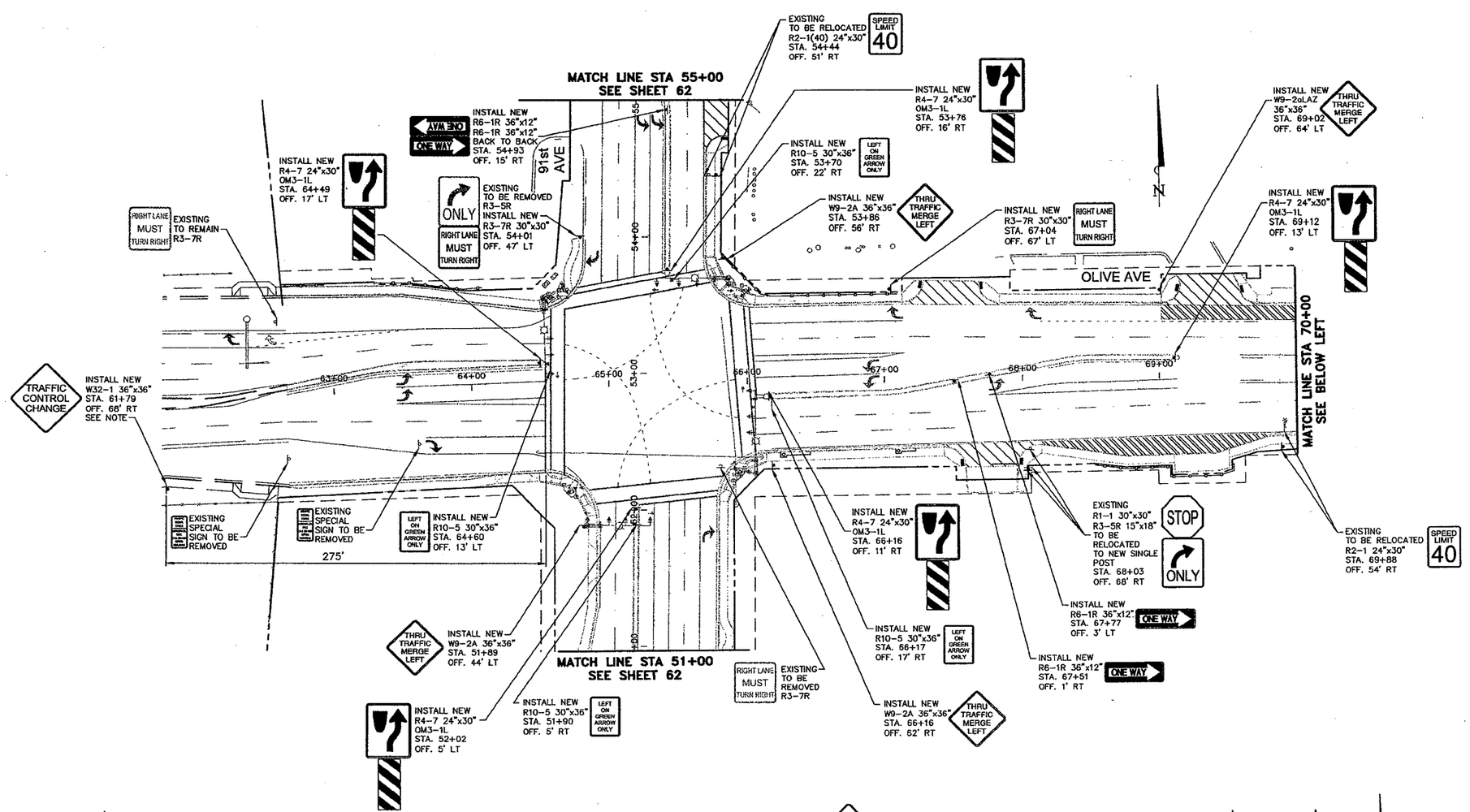
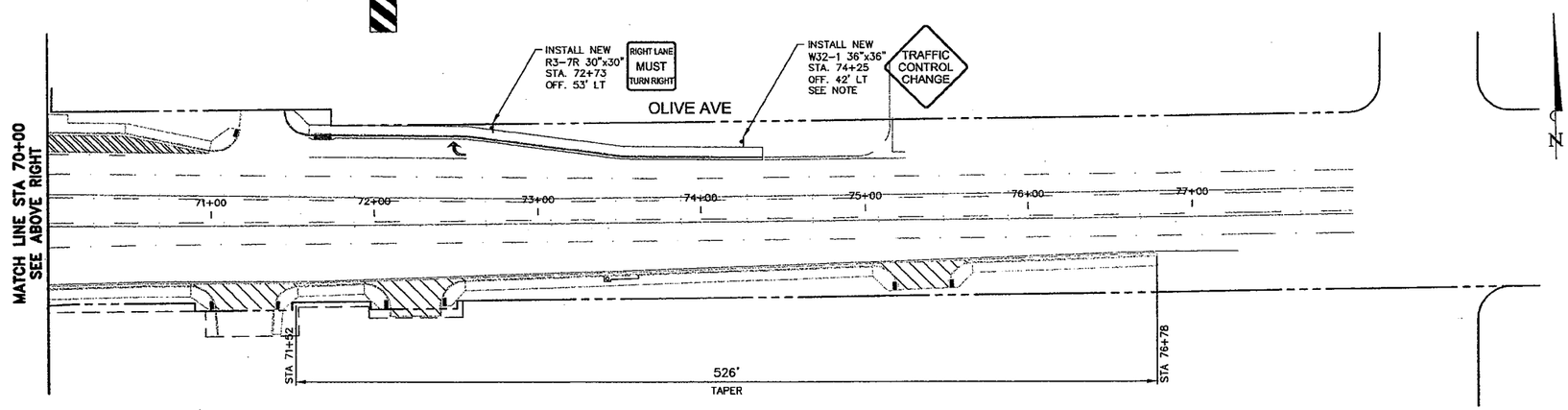
91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
PAVEMENT MARKING SHEET
AFTER OLIVE AVENUE WIDENING (ADOT)

Professional Engineer (Civil)
CERTIFICATE NO. 39165
RAY R. YPARRAGUIRRE
Date Signed 11/30/09
ARIZONA, U.S.A.
Expires 06/30/2012

DESIGNED BY: MJS	
DRAWN BY: MJS	
SCALE: HORIZONTAL= 40 VERTICAL=	
SHEET PM-03	
SHEET 71 OF 104	
DATE 11/2009	
W.O.	





NOTE:
W32-1 SIGN TO BE INSTALLED AT SIGNAL TURN-ON. AFTER 90 DAYS THESE SIGNS SHALL BE REMOVED.

REDUCED SIZE
DO NOT SCALE

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
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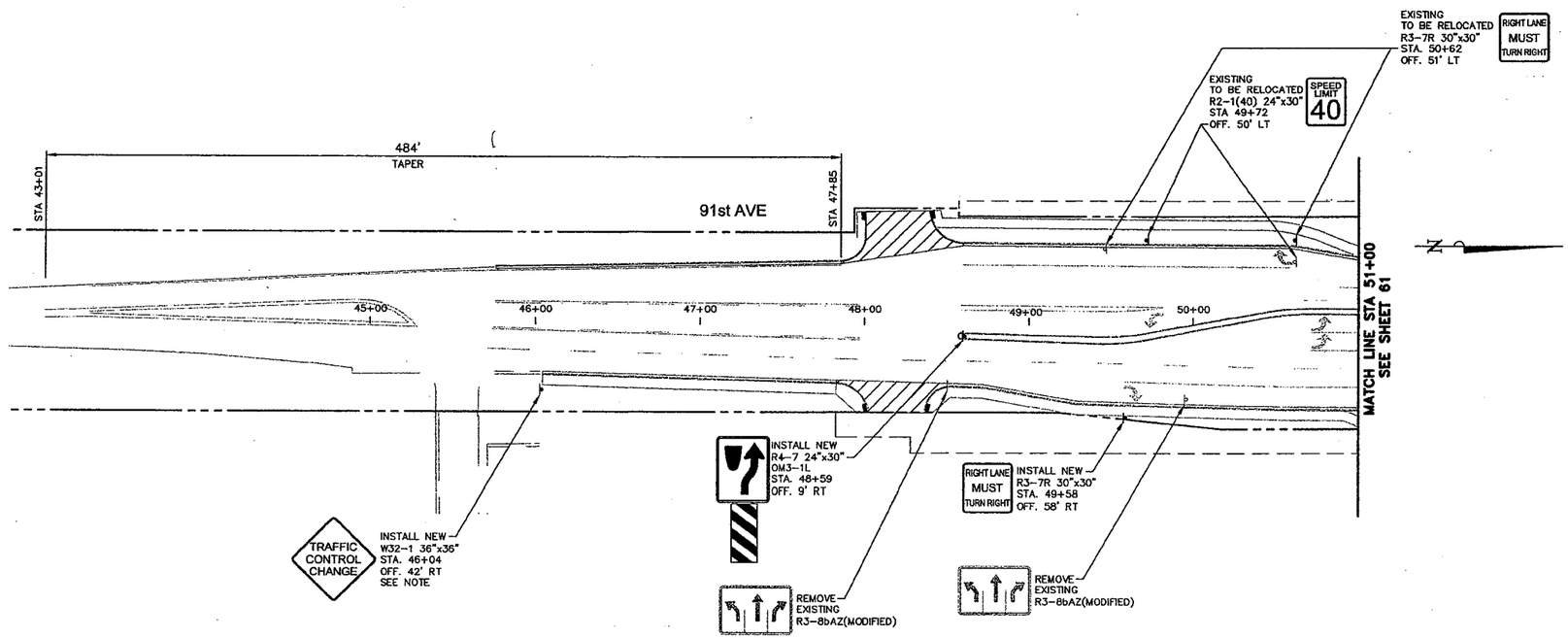
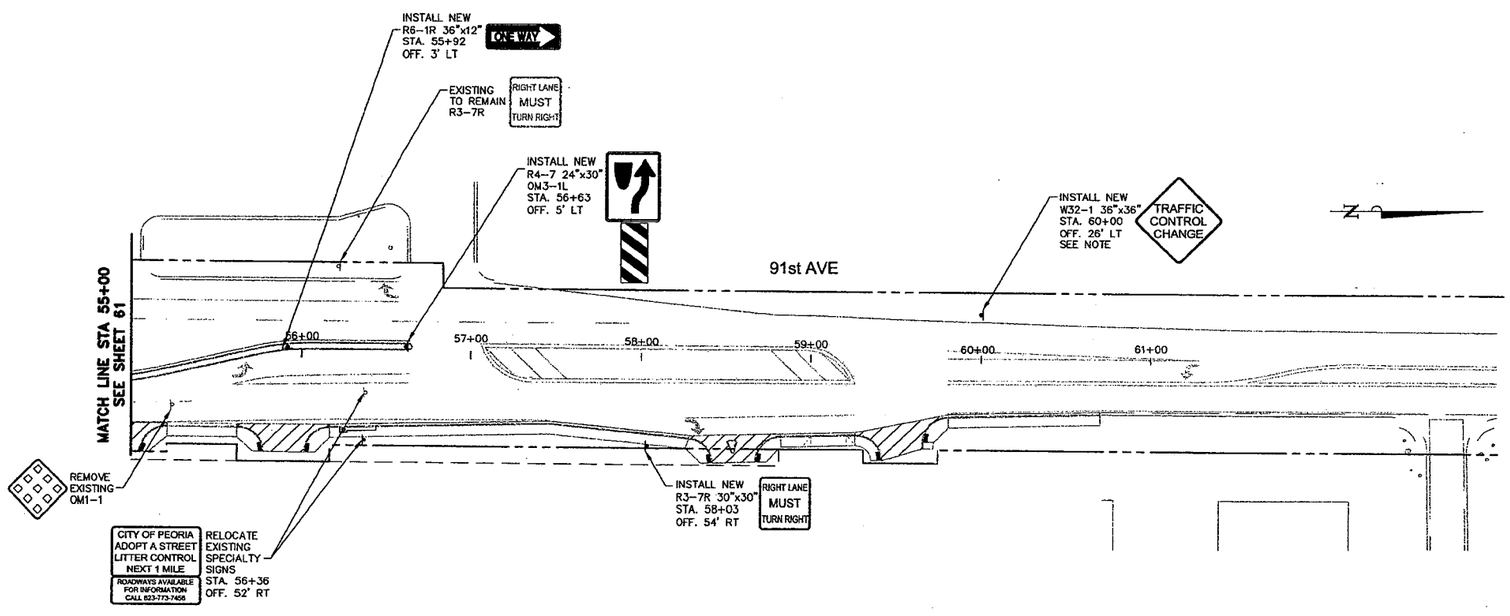
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
SIGNING SHEET

Registered Professional Engineer (Civil) CERTIFICATE NO. 39165 RAY P. PARRAGUIRRE ARIZONA, U.S.A. Expires 06/30/2012

DESIGNED BY: MJS	
DRAWN BY: MJS	
SCALE: HORIZONTAL= 40 VERTICAL=	
SHEET SN-02	
SHEET 72 OF 104	
DATE 11/2009	
W.O.	





NOTE:
W32-1 SIGN TO BE INSTALLED AT SIGNAL TURN-ON. AFTER 90 DAYS THESE SIGNS SHALL BE REMOVED.

REDUCED SIZE
DO NOT SCALE

GRAPHIC SCALE
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(IN FEET)

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ADOT TRACS NO.
000 MA PEO
SS60301C
CITY OF PEORIA
PROJECT NO. P-0315

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Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
SIGNING SHEET

Registered Professional Engineer (Civil)
CERTIFICATE NO. 39165
RAY P. BARRAGUIRRE
ARIZONA, U.S.A.
Expires 06/30/2010

DESIGNED BY: MJS
DRAWN BY: MJS
SCALE:
HORIZONTAL= 40
VERTICAL=
SHEET SN-03
SHEET 73 OF 104
DATE 11/2009
W.O.

michael.mosley Nov 30, 2009 \\Kimley-horn\rnt_phx\PHX_Roadway\091028010-91st_Olive\CADD\028010SN03.dwg

SIGN SUMMARY

PLAN SHEET NUMBER	SIGN NUMBER	SIGN CODE	WORK: NEW	WORK: EXISTING: REPLACE PANEL	WORK: EXISTING: RELOCATE PANEL	WORK: EXISTING: MODIFY LEGEND	WORK: EXISTING: REMOVE EXISTING	WORK: EXISTING: EXST TO REMAIN	OFFSET (FT)	PANEL: MOUNTING HEIGHT (FT)	PANEL: BACKGROUND COLOR	PANEL: LEGEND	PANEL: WIDTH (IN)	PANEL: HEIGHT (IN)	PANEL: AREA (SQ FT)	PANEL: TYPE	PANEL: MIN. SHEETING TYPE	PANEL: BID ITEM NUMBER	GROUND MOUNTED: FOUNDATIONS	GROUND MOUNTED: POSTS: TYPE	GROUND MOUNTED: POSTS: TOTAL LENGTH (FT)	GROUND MOUNTED: NEW SLIPBASES	GROUND MOUNTED: TYPE	GROUND MOUNTED: TOTAL LENGTH (FT)	OVERHEAD: STRUCTURE TYPE	OVERHEAD: NUMBER OF LIGHTS	REMARKS
1	EB 62+65	SPECIAL					X					TRAFFIC SIGNAL CABLE						6080101									
1	EB 63+60	SPECIAL					X					TRAFFIC SIGNAL CABLE						6080101									
1	EB 66+16	R4-7	X						1.5	7	WH	Keep Right Symbol	24	30	5.0	RWM	4	6080003	1	2S	10	10					CENTER IN MEDIAN
		OM3-1L	X							3	YL BK	Type 3-1 Left Object Marker						7030080									
1	EB 66+16	W9-2aLAZ	X						10	7	YL	THRU TRAFFIC MERGE LEFT	36	36	9.0	RWM	4	6080003	1	2S	10	10					
1	EB 67+77	R6-1R	X						1.5	5	BK	ONE WAY	36	12	3.0	RWM	4	6080003	1	2S	6	6					CENTER IN MEDIAN
1	EB 68+03	R1-1			X				8	7	RD	STOP	30	30	6.3	RWM	4	6080101	1	2S	12	12					
		R3-5R			X						WH	Right Turn Arrow ONLY	30	36	7.5	RWM	4	6080101									
1	EB 69+88	R2-1(40)			X				8.5	7	WH	SPEED LIMIT 40	24	30	5.0	RWM	4	6080101	1	2S	12	12					
1	WB 72+73	R3-5R	X						8	7	WH	Right Turn Arrow ONLY	30	36	7.5	RWM	4	6080003	1	2S	10	10					
1	WB 69+12	R4-7	X						1.5	7	WH	Keep Right Symbol	24	30	5.0	RWM	4	6080003	1	2S	10	10					CENTER IN MEDIAN
		OM3-1L	X								YL BK	Type 3-1 Left Object Marker						7030080									
1	WB 69+02	W9-2aLAZ	X						10	7	YL	THRU TRAFFIC MERGE LEFT	36	36	9.0	RWM	4	6080003	1	2S	10	10					
1	WB 67+51	R6-1R	X						1.5	5	BK	ONE WAY	36	12	3.0	RWM	4	6080003	1	2S	6	6					CENTER IN MEDIAN
1	WB 67+04	R3-5R	X						10	7	WH	Right Turn Arrow ONLY	30	36	7.5	RWM	4	6080003	1	2S	10	10					
1	WB 64+49	R4-7	X						2	7	WH	Keep Right Symbol	24	30	5.0	RWM	4	6080003	1	2S	10	10					CENTER IN MEDIAN
		OM3-1L	X								YL BK	Type 3-1 Left Object Marker						7030080									
2	NB 48+50	R3-8BAZMOD					X					LEFT ARROW THRU ARROW RIGHT ARROW						6080101									
2	NB 48+59	R4-7	X							7	WH	Keep Right Symbol	24	30	5.0	RWM	4	6080003	1	2S	10	10					CENTER IN MEDIAN
		OM3-1L	X								YL BK	Type 3-1 Left Object Marker						7030080									
2	NB 49+58	R3-5R	X						8	7	WH	Right Turn Arrow ONLY	30	36	7.5	RWM	4	6080003	1	2S	10	10					

STRINGER TYPES:

P: Square tube post
T: T section (WT3x6)

POST TYPES:

S: Non-telescoping perforated post
T: Telescoping perforated post

PANEL TYPES:

RWM: Regulatory, Warning or Marker
F-DA: Flat-sheet aluminum with direct-applied or silk-screenedcharacters
F-Dem: Flat-sheet aluminum with demountable characters
Ext: Aluminum extrusions
Incr: Aluminum sheet increment
Over: Overhead (New overlaid extrusions)

NOTES:

1. The Contractor shall verify post lengths and elevations for the Engineer's approval.
2. The Engineer may shift a sign in order to achieve a more desirable location.
3. Quantities are approximate and for the Contractor's information only.
4. All traffic control signs shall be attached to street light poles if the pole is within 25 feet of sign location as shown on the signing plans.
5. All existing signs temporarily removed by the Contractor shall be salvaged for reinstallation by the Contractor. All existing signs permanently removed by the Contractor shall be salvaged for return to the City of Peoria Sign Shop.

REDUCED SIZE
DO NOT SCALE

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

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ADOT TRACS NO. 000 MA PEO SS 60301C
CITY OF PEORIA PROJECT NO. P-0315

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7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
SIGN SUMMARY SHEET

Registered Professional Engineer (Civil) CERTIFICATE NO. 39165 RAY P. YPARRAGUIRRE Date Signed 11/18/09 ARIZONA, U.S.A. Expires 06/30/2010

DESIGNED BY: MJS
DRAWN BY: MJS
SCALE: HORIZONTAL= 40 VERTICAL=
SHEET SQ-01
SHEET 74 OF 104
DATE 11/2009
W.O.

SIGN SUMMARY

PLAN SHEET NUMBER	SIGN NUMBER	SIGN CODE	WORK: NEW	WORK: EXISTING: REPLACE PANEL	WORK: EXISTING: RELOCATE PANEL	WORK: EXISTING: MODIFY LEGEND	WORK: EXISTING: REMOVE EXISTING	WORK: EXISTING: EXST TO REMAIN	OFFSET (FT)	PANEL: MOUNTING HEIGHT (FT)	PANEL: BACKGROUND COLOR	PANEL: LEGEND	PANEL: WIDTH (IN)	PANEL: HEIGHT (IN)	PANEL: AREA (SQ FT)	PANEL: TYPE	PANEL: MIN. SHEETING TYPE	PANEL: BID ITEM NUMBER	GROUND MOUNTED: FOUNDATIONS	GROUND MOUNTED: POSTS: TYPE	GROUND MOUNTED: POSTS: TOTAL LENGTH (FT)	GROUND MOUNTED: NEW SLIPBASES	GROUND MOUNTED: TYPE	GROUND MOUNTED: TOTAL LENGTH (FT)	OVERHEAD: STRUCTURE TYPE	OVERHEAD: NUMBER OF LIGHTS	REMARKS
2	NB 49+95	R3-8BAZMOD					X					LEFT ARROW THRU ARROW RIGHT ARROW						6080101									
1	NB 52+30	R3-7R					X					RIGHT LANE MUST TURN RIGHT						6080101									
1	NB 53+71	R4-7	X							7	WH	Keep Right Symbol	24	30	5.0	RWM	4	6080003	1	2S	10	10					CENTER IN MEDIAN
		OM3-1L	X								YL BK	Type 3-1 Left Object Marker						7030080									
1	NB 53+86	W9-2aLAZ	X						8	7	YL	THRU TRAFFIC MERGE LEFT	36	36	9.0	RWM	4	6080003	1	2S	10	10					
1	NB 54+44	R2-1(40)			X				8	7	WH	SPEED LIMIT 40	24	30	5.0	RWM	4	6080101	1	2S	12	12					
1	NB 54+93	R6-1R	X							5	BK	ONE WAY	36	12	3.0	RWM	4	6080003	1	2S	6	6					CENTER IN MEDIAN
		R6-1R	X								BK	ONE WAY	36	12	3.0	RWM	4	6080003									
2	NB 55+24	OM1-1					X					Type 1-1 Object Marker						6080101									
2	NB 55+92	R6-1R	X							5	BK	ONE WAY	36	12	3.0	RWM	4	6080003	1	2S	6	6					CENTER IN MEDIAN
2	NB 56+36	SPECIAL			X				8	7	WH	CITY OF PEORIA ADOPT A STREET	36	36	9.0	RWM	4	6080101	1	2S	10	10					
2	NB 58+03	R3-7R	X						7	7	WH	RIGHT LANE MUST TURN RIGHT	30	30	6.3	RWM	4	6080003	1	2S	10	10					
2	SB 56+63	R4-7	X						2	7	WH	Keep Right Symbol	24	30	5.0	RWM	4	6080003	1	2S	10	10					CENTER IN MEDIAN
		OM3-1L	X								YL BK	Type 3-1 Left Object Marker						7030080									
2	SB 56+21	R3-7R						X				RIGHT LANE MUST TURN RIGHT															
1	SB 54+01	R3-7R						X				RIGHT LANE MUST TURN RIGHT															
1	SB 52+09	R4-7	X						2	7	WH	Keep Right Symbol	24	30	5.0	RWM	4	6080003	1	2S	10	10					
		OM3-1L	X								YL BK	Type 3-1 Left Object Marker						7030080									
1	SB 51+89	W9-2aLAZ	X						10	7	YL	THRU TRAFFIC MERGE LEFT	36	36	9.0	RWM	4	6080003	1	2S	10	10					
2	SB 50+62	R3-7R			X				4	7	WH	RIGHT LANE MUST TURN RIGHT	30	30	6.3	RWM	4	6080101	1	2S	10	10					
2	SB 49+72	R2-1(40)			X				4	7	WH	SPEED LIMIT 40	24	30	5.0	RWM	4	6080101	1	2S	10	10					

STRINGER TYPES:

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T: T section (WT3x6)

POST TYPES:

S: Non-telescoping perforated post
T: Telescoping perforated post

PANEL TYPES:

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CITY OF PEORIA PROJECT NO. P-0315

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91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
SIGN SUMMARY SHEET

Registered Professional Engineer (Civil) CERTIFICATE NO. 39165 RAY P. YNARRAGUIRRE Date Signed 11/09 ARIZONA, U.S.A. Expires 06/30/2010

DESIGNED BY: MJS
DRAWN BY: MJS
SCALE:
HORIZONTAL= 40
VERTICAL=
SHEET SQ-02
SHEET 75 OF 104
DATE 11/2009
W.O.

SIGN SUMMARY

PLAN SHEET NUMBER	SIGN NUMBER	SIGN CODE	WORK: NEW	WORK: EXISTING: REPLACE PANEL	WORK: EXISTING: RELOCATE PANEL	WORK: EXISTING: MODIFY LEGEND	WORK: EXISTING: REMOVE EXISTING	WORK: EXISTING: EXST TO REMAIN	OFFSET (FT)	PANEL: MOUNTING HEIGHT (FT)	PANEL: BACKGROUND COLOR	PANEL: LEGEND	PANEL: WIDTH (IN)	PANEL: HEIGHT (IN)	PANEL: AREA (SQ FT)	PANEL: TYPE	PANEL: MIN. SHEETING TYPE	PANEL: BID ITEM NUMBER	GROUND MOUNTED: FOUNDATIONS	GROUND MOUNTED: POSTS: TYPE	GROUND MOUNTED: POSTS: TOTAL LENGTH (FT)	GROUND MOUNTED: NEW SLIPBASES	GROUND MOUNTED: TYPE	GROUND MOUNTED: TOTAL LENGTH (FT)	OVERHEAD: STRUCTURE TYPE	OVERHEAD: NUMBER OF LIGHTS	REMARKS
2	SB 47+83	R3-9B	X						4	7	WH	CENTER LANE Two-Way Turn ONLY	24	30	5.0	RWM	4	6080003	1	2S	10	10					

STRINGER TYPES:

P: Square tube post
T: T section (WT3x6)

POST TYPES:

S: Non-telescoping perforated post
T: Telescoping perforated post

PANEL TYPES:

RWM: Regulatory, Warning or Marker
F-DA: Flat-sheet aluminum with direct-applied or silk-screenedcharacters
F-Dem: Flat-sheet aluminum with demountable characters
Ext: Aluminum extrusions
Incr: Aluminum sheet increment
Over: Overhead (New overlaid extrusions)

NOTES:

1. The Contractor shall verify post lengths and elevations for the Engineer's approval.
2. The Engineer may shift a sign in order to achieve a more desirable location.
3. Quantities are approximate and for the Contractor's information only.
4. All traffic control signs shall be attached to street light poles if the pole is within 25 feet of sign location as shown on the signing plans.
5. All existing signs temporarily removed by the Contractor shall be salvaged for reinstallation by the Contractor. All existing signs permanently removed by the Contractor shall be salvaged for return to the City of Peoria Sign Shop.

REDUCED SIZE
DO NOT SCALE

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602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

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ADOT TRACS NO.
0000 MA PEO
SS 60301C

CITY OF PEORIA
PROJECT NO. P-0315

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7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
SIGN SUMMARY SHEET

Registered Professional Engineer (Civil) CERTIFICATE NO. 39165 RAY P. YARRAGUIRRE Date Signed 11-18-09 ARIZONA, U.S.A. Expires 06/30/2012

DESIGNED BY: MJS
DRAWN BY: MJS
SCALE:
HORIZONTAL= 40
VERTICAL=
SHEET SQ-03
SHEET 76 OF 104
DATE 11/2009
W.O.

STREET LIGHTING GENERAL NOTES

1. ALL STREET LIGHTING WORK ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE CITY OF PEORIA STREETLIGHTING POLICY.
2. CONTRACTOR SHALL COORDINATE THE STREET LIGHTING WORK WITH UTILITY COMPANY PROVIDING SERVICE TO THE POLE, APS OR SRP DEPENDING ON POLE LOCATION, PRIOR TO STARTING CONSTRUCTION.
3. POLE SHALL BE LOCATED ONE (1) FOOT BACK OF SIDEWALK OR FOUR (4) FEET BACK CURB WITH DETACHED SIDEWALK AND SHALL NOT BE PLACED UNTIL THE LOCATION IS INSPECTED AND APPROVED BY THE ENGINEER.
4. INSTALLATION AND TYPE OF EQUIPMENT, INCLUDING POLES, MAST ARMS AND FIXTURES, SHALL MEET APS OR SRP STANDARDS; DEPENDING ON WHICH SERVICE AREA EACH STREETLIGHT IS TO BE INSTALLED.
5. LUMINARE VOLTAGE SHALL BE COORDINATED WITH THE UTILITY COMPANY SUPPLYING POWER. ALL LUMINAIRES SHALL BE 250 WATT HIGH PRESSURE SODIUM TYPE III IES DISTRIBUTION WITH FULL CUTTOFF OPTICS AND SHALL BE IN ACCORDANCE WITH CITY OF PEORIA STREETLIGHTING POLICY. ANY VARIANCE TO AN APPROVED LUMINAIRE SHALL REQUIRE A NEW DESIGN ACCOMPANIED WITH POINT-TO POINT LIGHTING CALCULATIONS TO VERIFY THAT LIGHT LEVELS HAVE MET THE DESIGN CRITERIA. APPROVAL BY CITY ENGINEER IS REQUIRED.
6. CONTRACTOR SHALL AFFIX A STREET LIGHT NUMBER ON EACH POLE ACCORDING TO THE CITY OF PEORIA. STREET LIGHT NUMBERS WILL BE ASSIGNED BY THE UTILITY COMPANY.
7. MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT STANDARDS AND RECOMMENDATIONS OF THE NATIONAL ELECTRICAL CODE, THE NATIONAL ELECTRICAL SAFETY CODE AND WITH LOCAL CODES WHICH APPLY. WHERE DISCREPANCIES ARISE BETWEEN CODES, THE MOST RESTRICTIVE REGULATION SHALL APPLY.
8. ALL LUMINAIRES SHALL BE MARKED WITH THEIR LAMP WATTAGE ("25" FOR 250 WATTS). THESE MARKINGS SHALL BE CLEARLY VISIBLE FROM THE GROUND.
9. SEE SHEET LT. 04 TO DETERMINE WHICH UTILITY COMPANY SERVICE AREA EACH STREETLIGHT POLE IS TO BE LOCATED.
10. A CITY OF PEORIA PERMIT SHALL BE OBTAINED PRIOR TO INSTALLATION OF STREETLIGHTS.
11. THE PLANS SHOW THE GENERAL PATH AND LOCATION OF CONDUIT, PULL BOXES AND ELEMENTS IN RELATION TO MAJOR PHYSICAL FEATURES AND APPROXIMATE STATIONING. THE CONTRACTOR SHALL NOTE THAT ELEMENT LOCATIONS ARE APPROXIMATE AND MAY CHANGE DURING CONSTRUCTION. THESE CHANGES MAY RESULT IN CHANGES TO STATIONING, AND CONDUIT LENGTHS, ALONG WITH MINOR QUANTITY CHANGES. THE CONTRACTOR SHALL VERIFY FIELD LENGTHS BEFORE ORDERING FOR THE ITEMS SHOWN ON THESE PLANS.
12. THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE STREET LIGHTING DIVISION, AGAINST DEFECTS IN WORKMANSHIP, FAILURE, MALFUNCTION OF MATERIALS AND/OR EQUIPMENT. THIS GUARANTEE IS TO BE IN WRITING
13. CONTRACTOR SHALL AVOID DAMAGE TO LANDSCAPING, PAVERS, CONCRETE, ASPHALT, AND OTHER SUCH TREATMENTS. ANY DAMAGE OR DESTRUCTION AS A RESULT OF CONSTRUCTION SHALL BE RESTORED TO PREVIOUS CONDITIONS BY THE CONTRACTOR AT THE EXPENSE OF THE CONTRACTOR.
14. EXISTING UTILITY INFORMATION SHOWN ON THE PLANS CONCERNING THE TYPE, SIZE AND LOCATION WERE COMPILED BASED ON THE BEST AVAILABLE UTILITY RECORDS TO THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND VERIFY THE ACTUAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES IN PLACE UNLESS NOTED OR SPECIFIED OTHERWISE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
15. "AS BUILT" DRAWING REQUIREMENTS SHALL CONSIST OF RECORDING, BY THE CONTRACTOR, ANY CHANGE OR DEVIATION ON A SET OF APPROVED PLANS. PLANS SHALL BE FURNISHED TO THE INSPECTOR AT THE COMPLETION OF THE PROJECT. FINAL PAYMENT SHALL NOT BE MADE UNTIL THE AS BUILT PRINTS ARE ACCEPTED BY THE CITY'S REPRESENTATIVE.

STREET LIGHTING NOTES SRP AREA

1. INSTALLATION PER SRP REQUIREMENTS AND CITY OF PEORIA STREETLIGHTING POLICY.
2. THE CONSTRUCTION CONTRACTOR WILLL COORDINATE HIS WORK AS INDICATED ON THE SRP STREET LIGHTING PLANS AND CONSTRUCTION RESPONSIBILITIES NOTES FOUND ON THE PLANS. THE PRECONSTRUCTION ASSIGNED SRP INSPECTOR WILL BE INDICATED TO SET UP A MEETING FOR THE TRENCH, CONDUIT AND SRP SUPPLIED MATERIALS. SRP WILL SUPPLY THE JBOXES, GROUNDRODS, AND SONO TUBES TO BE INSTALLED BY THE CITY'S CONTRACTOR.
3. STREETLIGHT POLES WITHIN SRP SERVICE AREA SHALL EITHER BE PER SRP DWG. NO. 10-101, CODE NO. ULHC3530 OR PER SRP DWG. 10-106 CODE NO. ULHC2530, DEPENDING ON INDIVIDUAL POLE LOCATION PER THE STREETLIGHTING PLANS.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANY FOR COORDINATION OF TRENCH AND THE INSTALLATION OF CONDUIT.

STREET LIGHTING NOTES APS AREA

1. INSTALLATION PER APS REQUIREMENTS AND CITY OF PEORIA STREETLIGHTING POLICY.
2. THE CONSTRUCTION CONTRACTOR WILL COORDINATE HIS WORK WITH RON GANDARA ((602)371-7546 OF THE APS LIGHTING DIVISION PRIOR TO THE START OF CONSTRUCTION.
3. ALL STREETLIGHT POLES WITHIN APS SERVICE AREA SHALL BE PER APS T&D CONSTRUCTION DWG. NO. 8040, CODE NO. 1944.38.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANY FOR COORDINATION OF TRENCH AND THE INSTALLATION OF CONDUIT.

LEGEND

- STREETLIGHT POLE, APS STANDARD, 8040, POLE CODE NO. 1944.38
- STREETLIGHT POLE, SRP STANDARD, 10-101, CODE NO. ULHC3530
- STREETLIGHT POLE, SRP STANDARD, 10-106, CODE NO. ULHC2530
- XXX — POLE NUMBER, SEE POLE LUMINAIR SCHEDULE FOR ADDITIONAL REQUIREMENTS PER POLE NO.
- SRP-SUPPLIED STREET LIGHTING PULLBOX TO BE INSTALLED PER SRP REQUIREMENTS
- APS-SUPPLIED STREET LIGHTING PULLBOX TO BE INSTALLED PER APS REQUIREMENTS

CONSTRUCTION NOTES

1. FURNISH AND INSTALL SRP STREETLIGHT DWG. NO. 10-101, CODE NO. ULHC3530 POLE. FURNISH AND INSTALL 250 WATT HPS LUMINAIRE TYPE III IES DISTRIBUTION WITH FULL CUTTOFF OPTICS AT 35 FOOT MOUNTING HEIGHT.
2. FURNISH AND INSTALL SRP STREETLIGHT DWG. NO. 10-106, CODE NO. ULHC2530 POLE. FURNISH AND INSTALL 250 WATT HPS LUMINAIRE TYPE III IES DISTRIBUTION WITH FULL CUTTOFF OPTICS AT 32 FOOT MOUNTING HEIGHT.
3. FURNISH AND INSTALL APS STREETLIGHT DWG. NO. 8040, POLE CODE NO. 1944.38. FURNISH AND INSTALL 250 WATT HPS LUMINAIRE TYPE III IES DISTRIBUTION WITH FULL CUTTOFF OPTICS AT 39' 3" MOUNTING HEIGHT.
4. FURNISH AND INSTALL 1" PVC SCHEDULE 40 CONDUIT WITH (2) #12 AWG AND (1) #12 INSULATED GREEN BOND CONDUCTORS FROM LIGHT POLE TO ADJACENT STREET LIGHT PULL BOX.
5. REMOVE AND SALVAGE EXISTING STREET LUMINAIRE. SALVAGED MATERIAL SHALL BE DELIVERED TO A LOCATION IN THE CITY OF PEORIA AND UNLOADED AS DIRECTED BY THE TRANSPORTATION DIRECTOR. RESULTING HOLES, CAVITITES AND DEPRESSIONS IN PAVERS, CONCRETE, ASPHALT AND/OR EARTH SHALL BE BACKFILLED AND SURFACED WITH MATERIAL OF LIKE COMPOSITION TO SURROUNDING CONDITIONS. COORDINATE DE-ENERGIZATION OF EXISTING STREET LIGHT WITH UTILITY COMPANY PROVIDING POWER.
6. RELOCATE EXISTING PRIVATELY-OWNED PARKING LOT LIGHT. CONTRACTOR SHALL VERIFY THAT AN AGREEMENT BETWEEN THE PROPERTY OWNER AND THE CITY OF PEORIA AUTHORIZES RELOCATION OF THE PRIVATELY-OWNED PARKING LOT LIGHT.
7. FURNISH AND INSTALL 2½" PVC SCHEDULE 40 CONDUIT AND TRENCH PER UTILITY REQUIREMENTS
8. 12" MINIMUM VERTICAL CLEARANCE UNDERCROSSING SRP IRRIGATION PIPE
9. 24" MINIMUM HORIZONTAL CLEARANCE FROM EDGE OF SRP IRRIGATION PIPE TO EDGE OF ELECTRICAL CONDUIT, WHEN PARALLELING SRP IRRIGATION
10. PULL BOXES AND STREET LIGHTS SHALL HAVE 24" MINIMUM HORIZONTAL CLEARANCE FROM EDGE OF SRP IRRIGATION

REDUCED SIZE
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ADOT TRACS NO. 000 MA PEO SS60301C
CITY OF PEORIA PROJECT NO. P-0315

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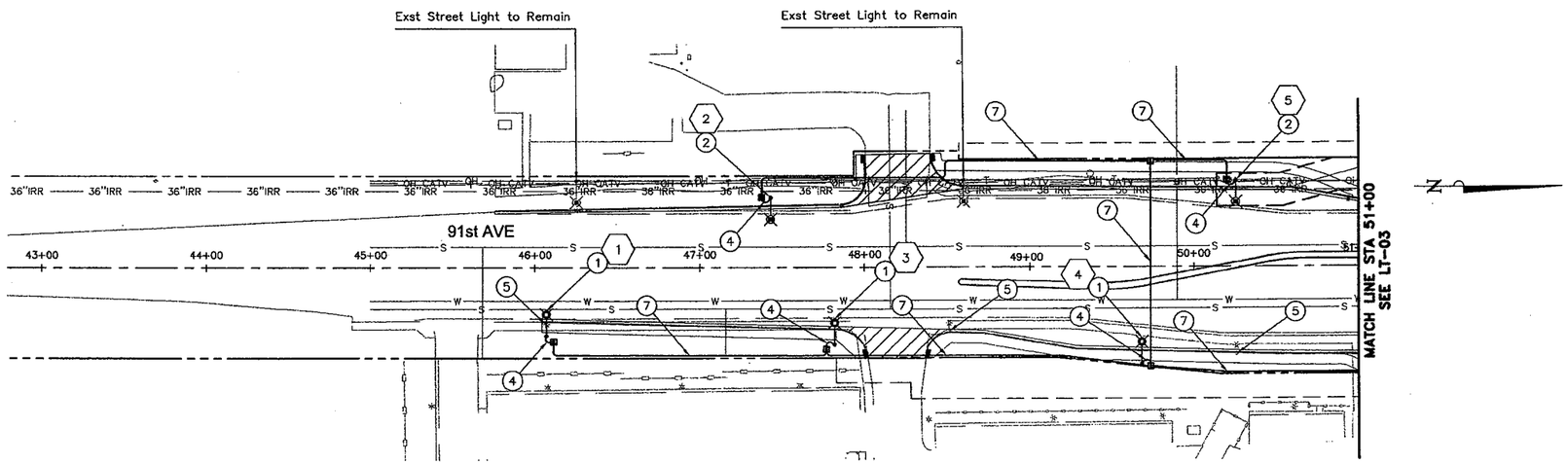
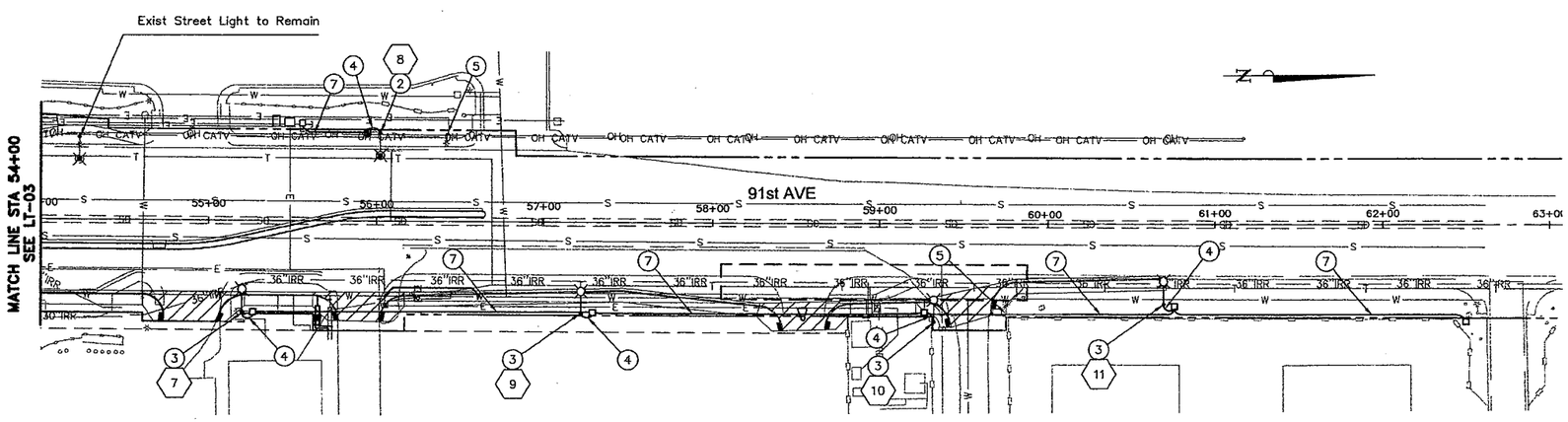
7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
STREET LIGHTING GENERAL NOTES

Registered Professional Engineer (Civil)
CERTIFICATE NO. 35268
DAVID S. HAINES
Date Signed 12/3/09
ARIZONA, U.S.A.
Exp. Date 09/30/12

DESIGNED BY: JCL	
DRAWN BY: MJS	
SCALE: HORIZONTAL= VERTICAL=	
SHEET	LT-01
SHEET	77 OF 104
DATE	11/2009
W.O.	





REDUCED SIZE
DO NOT SCALE

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

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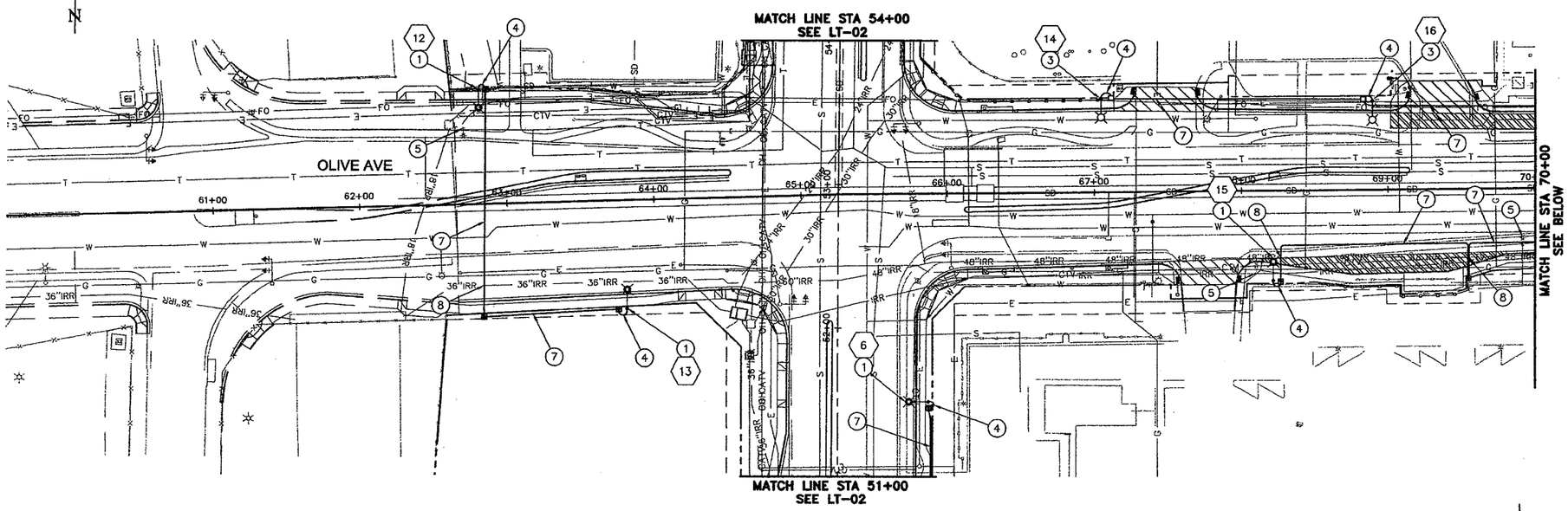
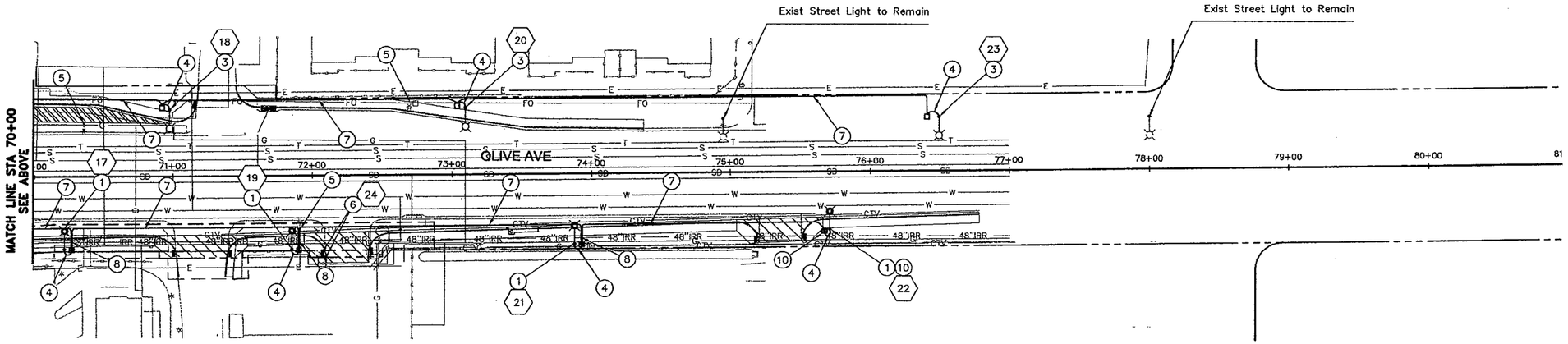
91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
STREET LIGHTING SHEET

Registered Professional Engineer (Electrical)
CERTIFICATE NO. 35268
DAVID S. HAINES
Date Signed 12-3-09
ARIZONA, U.S.A.
Exp. Date 09/30/12

DESIGNED BY:	MJS
DRAWN BY:	MJS
SCALE: HORIZONTAL= VERTICAL=	40
SHEET	LT-02
SHEET	78 OF 104
DATE	11/2009
W.O.	





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DO NOT SCALE

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

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INTERSECTION IMPROVEMENTS
STREET LIGHTING SHEET

Registered Professional Engineer (Electrical)
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DESIGNED BY: JCL
DRAWN BY: MJS
SCALE:
HORIZONTAL= 40
VERTICAL=
SHEET LT-03
SHEET 79 OF 104
DATE 11/2009
W.O.

POLE AND LUMINAIRE SCHEDULE

POLE NO.	STATION	CENTER LINE REFERENCED	OFFSET (ft.)	FOUNDATION TYPE	POLE TYPE	LUMINAIRE MOUNTING HEIGHT	MAST ARM (ft.)	SERVICE AREA	LUMINAIRE TYPE
1	46+07	91ST AVE CST	41' RT	DIRECT BURIAL	SRP STD. 10-101, CODE ULHC3530	35' 0"	8	SRP	SRP STD DT. 10-101 CODE ULHC3530, 250W HPS
2	47+43	91ST AVE CST	40' LT	DIRECT BURIAL	SRP STD. 10-106, CODE ULHC2530	32' 0"	10	SRP	SRP STD DT. 10-106 CODE ULHC2530, 250W HPS
3	47+82	91ST AVE CST	47' RT	DIRECT BURIAL	SRP STD. 10-101, CODE ULHC3530	35' 0"	8	SRP	SRP STD DT. 10-101 CODE ULHC3530, 250W HPS
4	49+69	91ST AVE CST	59' RT	DIRECT BURIAL	SRP STD. 10-101, CODE ULHC3530	35' 0"	8	SRP	SRP STD DT. 10-101 CODE ULHC3530, 250W HPS
5	50+26	91ST AVE CST	52' LT	DIRECT BURIAL	SRP STD. 10-106, CODE ULHC2530	32' 0"	10	SRP	SRP STD DT. 10-106 CODE ULHC2530, 250W HPS
6	51+49	91ST AVE CST	62' RT	DIRECT BURIAL	SRP STD. 10-101, CODE ULHC3530	35' 0"	8	SRP	SRP STD DT. 10-101 CODE ULHC3530, 250W HPS
7	55+20	91ST AVE CST	54' RT	DIRECT BURIAL	APS STD. 8040, CODE 1944.38	39' 3"	8x8	APS	APS STD. DT. 8040.RN APN 00047119, 250W HPS
8	56+03	91ST AVE CST	53' LT	DIRECT BURIAL	SRP STD. 10-106, CODE ULHC2530	32' 0"	10	SRP	SRP STD DT. 10-106 CODE ULHC2530, 250W HPS
9	57+22	91ST AVE CST	54' RT	DIRECT BURIAL	APS STD. 8040, CODE 1944.38	39' 3"	8x8	APS	APS STD. DT. 8040.RN APN 00047119, 250W HPS
10	59+32	91ST AVE CST	58' RT	DIRECT BURIAL	APS STD. 8040, CODE 1944.38	39' 3"	8x8	APS	APS STD. DT. 8040.RN APN 00047119, 250W HPS
11	60+69	91ST AVE CST	47' RT	DIRECT BURIAL	APS STD. 8040, CODE 1944.38	39' 3"	8x8	APS	APS STD. DT. 8040.RN APN 00047119, 250W HPS
12	62+83	OLIVE AVE CST	79' LT	DIRECT BURIAL	SRP STD. 10-101, CODE ULHC3530	35' 0"	8	SRP	SRP STD DT. 10-101 CODE ULHC3530, 250W HPS
13	63+80	OLIVE AVE CST	79' RT	DIRECT BURIAL	SRP STD. 10-101, CODE ULHC3530	35' 0"	8	SRP	SRP STD DT. 10-101 CODE ULHC3530, 250W HPS
14	67+05	OLIVE AVE CST	64.5' LT	DIRECT BURIAL	APS STD. 8040, CODE 1944.38	39' 3"	8x8	APS	APS STD. DT. 8040.RN APN 00047119, 250W HPS
15	68+22	OLIVE AVE CST	63' RT	DIRECT BURIAL	SRP STD. 10-101, CODE ULHC3530	35' 0"	8	SRP	SRP STD DT. 10-101 CODE ULHC3530, 250W HPS
16	68+90	OLIVE AVE CST	61' LT	DIRECT BURIAL	APS STD. 8040, CODE 1944.38	39' 3"	8x8	APS	APS STD. DT. 8040.RN APN 00047119, 250W HPS
17	70+23	OLIVE AVE CST	53' RT	DIRECT BURIAL	SRP STD. 10-101, CODE ULHC3530	35' 0"	8	SRP	SRP STD DT. 10-101 CODE ULHC3530, 250W HPS
18	70+98	OLIVE AVE CST	47' LT	DIRECT BURIAL	APS STD. 8040, CODE 1944.38	39' 3"	8x8	APS	APS STD. DT. 8040.RN APN 00047119, 250W HPS
19	71+83	OLIVE AVE CST	54' RT	DIRECT BURIAL	SRP STD. 10-101, CODE ULHC3530	35' 0"	8	SRP	SRP STD DT. 10-101 CODE ULHC3530, 250W HPS
20	73+10	OLIVE AVE CST	48' LT	DIRECT BURIAL	APS STD. 8040, CODE 1944.38	39' 3"	8x8	APS	APS STD. DT. 8040.RN APN 00047119, 250W HPS
21	73+80	OLIVE AVE CST	54' RT	DIRECT BURIAL	SRP STD. 10-101, CODE ULHC3530	35' 0"	8	SRP	SRP STD DT. 10-101 CODE ULHC3530, 250W HPS
22	75+71	OLIVE AVE CST	43' RT	DIRECT BURIAL	SRP STD. 10-101, CODE ULHC3530	35' 0"	8	SRP	SRP STD DT. 10-101 CODE ULHC3530, 250W HPS
23	76+50	OLIVE AVE CST	39' LT	DIRECT BURIAL	APS STD. 8040, CODE 1944.38	39' 3"	8x8	APS	APS STD. DT. 8040.RN APN 00047119, 250W HPS
24	72+08	OLIVE AVE CST	61' RT	DIRECT BURIAL	EXISTING (PARKING LOT)	EXISTING	8	PRIVATE	EXISTING/PRIVATE

REDUCED SIZE
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ADOT TRACS NO.
0000 MA PEO
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CITY OF PEORIA
PROJECT NO. P-0315

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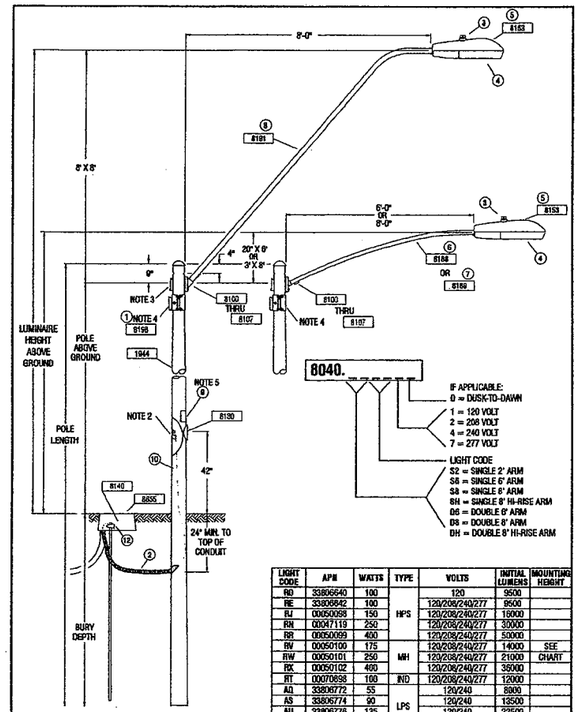
91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
POLE AND LUMINAIRE SCHEDULE

Registered Professional Engineer (Electrical)
CERTIFICATE NO. 35268
DAVID S. HAINES
Date Signed 09/30/09
ARIZONA U.S.A.
Exp. Date 09/30/12

DESIGNED BY: JCL
DRAWN BY: MJS
SCALE:
HORIZONTAL=
VERTICAL=
SHEET LT-04
SHEET 80 OF 104
DATE 11/2009
W.O.



LIGHT CODE	APN	WATTS	TYPE	VOLTS	INITIAL LUMENS	MOUNTING HEIGHT
RD	33806540	100	HPS	120	9500	SEE CHART
RE	33806642	100		120/208/240/277	9500	
RJ	00050098	150		120/208/240/277	16000	
RH	00047119	250		120/208/240/277	30000	
RR	00050099	400		120/208/240/277	50000	
RV	00050100	175	MH	120/208/240/277	14000	
RW	00050101	250		120/208/240/277	21000	
RX	00050102	400		120/208/240/277	36000	
RT	00070698	100	IND	120/208/240/277	12000	
AQ	33806772	55	LPS	120/240	8800	
AS	33806774	90		120/240	13500	
AU	33806776	135		120/240	22500	
AW	33806778	180		120/240	33000	

ARIZONA PUBLIC SERVICE COMPANY T&D CONSTRUCTION STANDARDS					LIGHTS ROADWAY LUMINAIRE ON 20"X6", 3'X8' OR 6'X8' MAST ARMS ON 19'-0", 30'-0", 38'-0" OR 40'-6" STEEL POLES	SH 1 OF 2 8040
BY	LDR.	MGR.	DATE	REV.		
KLS	B. McMinn	S. Sierra	1/2007	9		

CONSTRUCTION NOTES:

1. ADJUST PHOTO EYE TO FACE NORTH.
2. A GROUND ROD IS PROVIDED WITH THE JUNCTION BOX. WHERE A GROUND ROD CANNOT BE DRIVEN ALTERNATE GROUND SHALL BE USED. SEE 2449 THRU 2460 FOR APPROVED ALTERNATES.
3. THE 40'-6" SELF-SUPPORTING STEEL POLE AND ONE OF THE 38'-6", HAVE TWO, MANUFACTURER INSTALLED SIMPLEX FITTINGS 180° APART FOR DOUBLE ARMS, SEE CHART.
4. APN 33701054 IS A POLE BAND ADAPTOR WITH A SIMPLEX FITTING. ADAPTOR IS REQUIRED FOR THE SECOND ARM IN DOUBLE ARM APPLICATIONS ON EXISTING POLES IN THE FIELD WITHOUT TWO SIMPLEX FITTINGS. SEE 8198 FOR AVAILABLE SIZES.
5. SIGN, "NOTICE THIS POLE IS OWNED AND MAINTAINED BY APS. DISCONNECT INSIDE." IS REQUIRED ON ALL DUSK-TO-DAWN AND AREA LIGHTING APPLICATIONS.
6. POLES THAT HAVE MORE THAN ONE LUMINAIRE REQUIRE A SEPARATE CIRCUIT WITH FUSING FROM THE J-BOX TO EACH LUMINAIRE

ENGINEERING NOTES:

A. THE LIGHT CODE PROVIDES TWO SAME WATTAGE LUMINAIRES WHEN DOUBLE ARMS ARE SPECIFIED.
B. SEE SPEC 8130 - 8140 FOR IN-LINE FUSE FOR UNDERGROUND FEEDS.
C. SEE 8100 THRU 8107 FOR OVERHEAD ATTACHMENTS.

POLE CODE	POLE LENGTH	BURY DEP'TH	POLE ABOVE GROUND	LUMINAIRE HEIGHT ABOVE GROUND ON ARM		
				20" X 6'	8' X 8'	6' X 8'
1944.19	19'-0"	5'-0"	14'-0"	14'-11"	16'-3"	—
1944.30	30'-6"	5'-6"	25'-0"	25'-11"	27'-3"	—
1944.38	38'-6"	6'-6"	32'-0"	32'-11"	34'-3"	39'-3"
1944.38X	38'-6"	6'-6"	32'-0"	32'-11"	34'-3"	39'-3"
1944.40X	40'-6"	8'-6"	32'-0"	32'-11"	34'-3"	39'-3"

CODE	8040.05	8040.06	8040.07	8040.08	8040.09	8040.10	MATERIAL LIST	
ITEM	QTY	QTY	QTY	QTY	QTY	QTY	DESCRIPTION	APN
1	-	-	-	1	1	1	ADAPTER BAND W/SIMPLEX 2"	33701054
2	10	10	10	10	10	10	CONDUIT 1" PVC FLEX CORR	32500891
3	1	1	1	2	2	2	CONTROL PHOTO MULTI BLACK	00063965
4	1	1	1	2	2	2	LAMP - SEE 8164 - 8171	
5	1	1	1	2	2	2	LUMINAIRE - SEE CHART	
6	1	-	-	2	-	-	MAST ARM ST LT 2"X20"X6'	33701112
7	-	1	-	-	2	-	MAST ARM ST LT 2"X3"X8'	33701124
8	-	-	1	-	-	2	MAST ARM ST LT 2"X8"X8'	33701123
9	1	1	1	1	1	1	SIGN POLE OWNED BY APS	00050952
10	10	10	10	10	10	10	WIRE BARE #6 SOLID CU	33007580

ARIZONA PUBLIC SERVICE COMPANY T&D CONSTRUCTION STANDARDS					LIGHTS ROADWAY LUMINAIRE ON 20"X6", 3'X8' OR 6'X8' MAST ARMS ON 19'-0", 30'-0", 38'-0" OR 40'-6" STEEL POLES	SH 2 OF 2 8040
BY	LDR.	MGR.	DATE	REV.		
KLS	B. McMinn	S. Sierra	1/2007	9		

NOTE:
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ADOT TRACS NO. 000 MA PEO SS 60301C
CITY OF PEORIA PROJECT NO. P-0315

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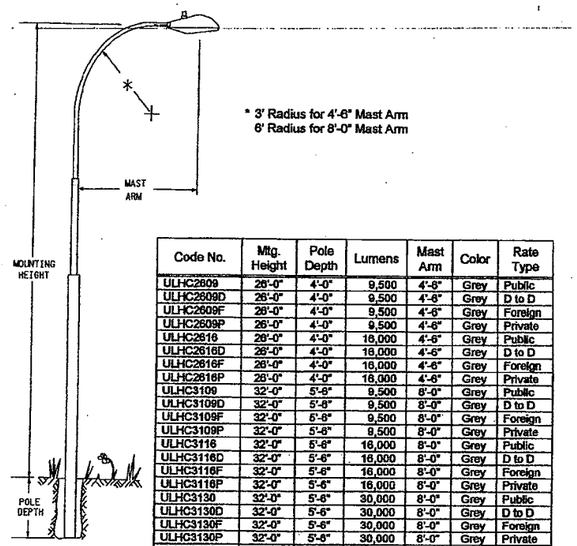
7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

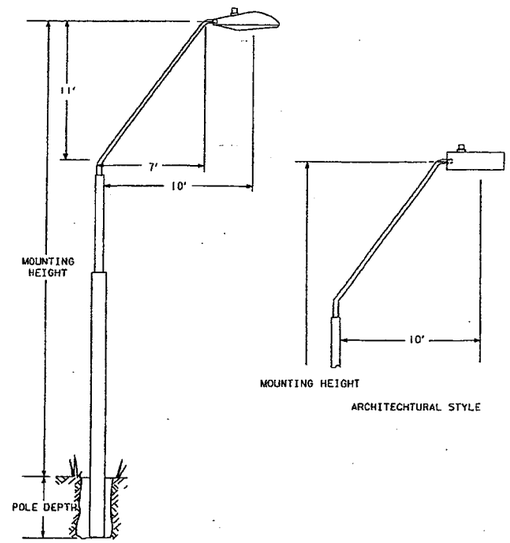
91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
APS STANDARD DETAILS

DESIGNED BY: LJA
DRAWN BY: LJA/TEM
SCALE:
HORIZONTAL=
VERTICAL=
SHEET LT-05
SHEET 61 OF 104
DATE 11/2009
W.O.



Code No.	Mtg. Height	Pole Depth	Lumens	Mast Arm	Color	Rate Type
ULHC2609	26'-0"	4'-0"	9,500	4'-6"	Grey	Public
ULHC2609D	26'-0"	4'-0"	9,500	4'-6"	Grey	D to D
ULHC2609F	26'-0"	4'-0"	9,500	4'-6"	Grey	Foreign
ULHC2609P	26'-0"	4'-0"	9,500	4'-6"	Grey	Private
ULHC2616	26'-0"	4'-0"	16,000	4'-6"	Grey	Public
ULHC2616D	26'-0"	4'-0"	16,000	4'-6"	Grey	D to D
ULHC2616F	26'-0"	4'-0"	16,000	4'-6"	Grey	Foreign
ULHC2616P	26'-0"	4'-0"	16,000	4'-6"	Grey	Private
ULHC3109	32'-0"	5'-6"	9,500	8'-0"	Grey	Public
ULHC3109D	32'-0"	5'-6"	9,500	8'-0"	Grey	D to D
ULHC3109F	32'-0"	5'-6"	9,500	8'-0"	Grey	Foreign
ULHC3109P	32'-0"	5'-6"	9,500	8'-0"	Grey	Private
ULHC3116	32'-0"	5'-6"	16,000	8'-0"	Grey	Public
ULHC3116D	32'-0"	5'-6"	16,000	8'-0"	Grey	D to D
ULHC3116F	32'-0"	5'-6"	16,000	8'-0"	Grey	Foreign
ULHC3116P	32'-0"	5'-6"	16,000	8'-0"	Grey	Private
ULHC3130	32'-0"	5'-6"	30,000	8'-0"	Grey	Public
ULHC3130D	32'-0"	5'-6"	30,000	8'-0"	Grey	D to D
ULHC3130F	32'-0"	5'-6"	30,000	8'-0"	Grey	Foreign
ULHC3130P	32'-0"	5'-6"	30,000	8'-0"	Grey	Private
ULHC3530	35'-0"	6'-6"	30,000	8'-0"	Grey	Public
ULHC3530D	35'-0"	6'-6"	30,000	8'-0"	Grey	D to D
ULHC3530F	35'-0"	6'-6"	30,000	8'-0"	Grey	Foreign
ULHC3530P	35'-0"	6'-6"	30,000	8'-0"	Grey	Private
ULHC3550	35'-0"	6'-6"	50,000	8'-0"	Grey	Public
ULHC3550D	35'-0"	6'-6"	50,000	8'-0"	Grey	D to D
ULHC3550F	35'-0"	6'-6"	50,000	8'-0"	Grey	Foreign
ULHC3550P	35'-0"	6'-6"	50,000	8'-0"	Grey	Private

10-101	Dwg. No. 8513E46.DGN	
DATE: 12-13-99 REV. NO.: 0 REV. DATE: APPROVAL: WEL/DJP	UNDERGROUND LIGHTING COMPATIBLE UNITS STREETLIGHTS – STREAMLINED	Outdoor Lighting Standards SRP PROPRIETARY MATERIAL
10-101	ULHC2609 – ULHC3550P	



Code No.	Mtg. Height	Pole Depth	Lumens	Pole Shape	Pole Color	Rate Type
ULAHQ2503	32'-0"	5'-6"	30,000	Square *	Brown	Public
ULAHQ2503F	32'-0"	5'-6"	30,000	Square *	Brown	Foreign
ULHC2516	32'-0"	5'-6"	16,000	Round	Grey	Public
ULHC2530	32'-0"	5'-6"	30,000	Round	Grey	Public
ULHC2530F	32'-0"	5'-6"	30,000	Round	Grey	Foreign

* Architectural style luminaire

Outdoor Lighting Standards	Dwg. No. 8513E52.DGN	10-106
SRP PROPRIETARY MATERIAL	UNDERGROUND LIGHTING COMPATIBLE UNITS STREETLIGHTS – HIGH RISE STREAMLINED & ARCHITECTURAL	DATE: 12-14-99 REV. NO.: 0 REV. DATE: APPROVAL: WEL/DJP
	ULAHQ2530 – ULHC2530F	10-106

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ADOT TRACS NO.
000 MA PEO
SS 60301C

CITY OF PEORIA
PROJECT NO. P-0315

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91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
SRP STANDARD DETAILS

DESIGNED BY: LJA
DRAWN BY: LJA/TEM
SCALE:
HORIZONTAL=
VERTICAL=
SHEET LT-08
SHEET 82 OF 104
DATE 11/2009
W.O.

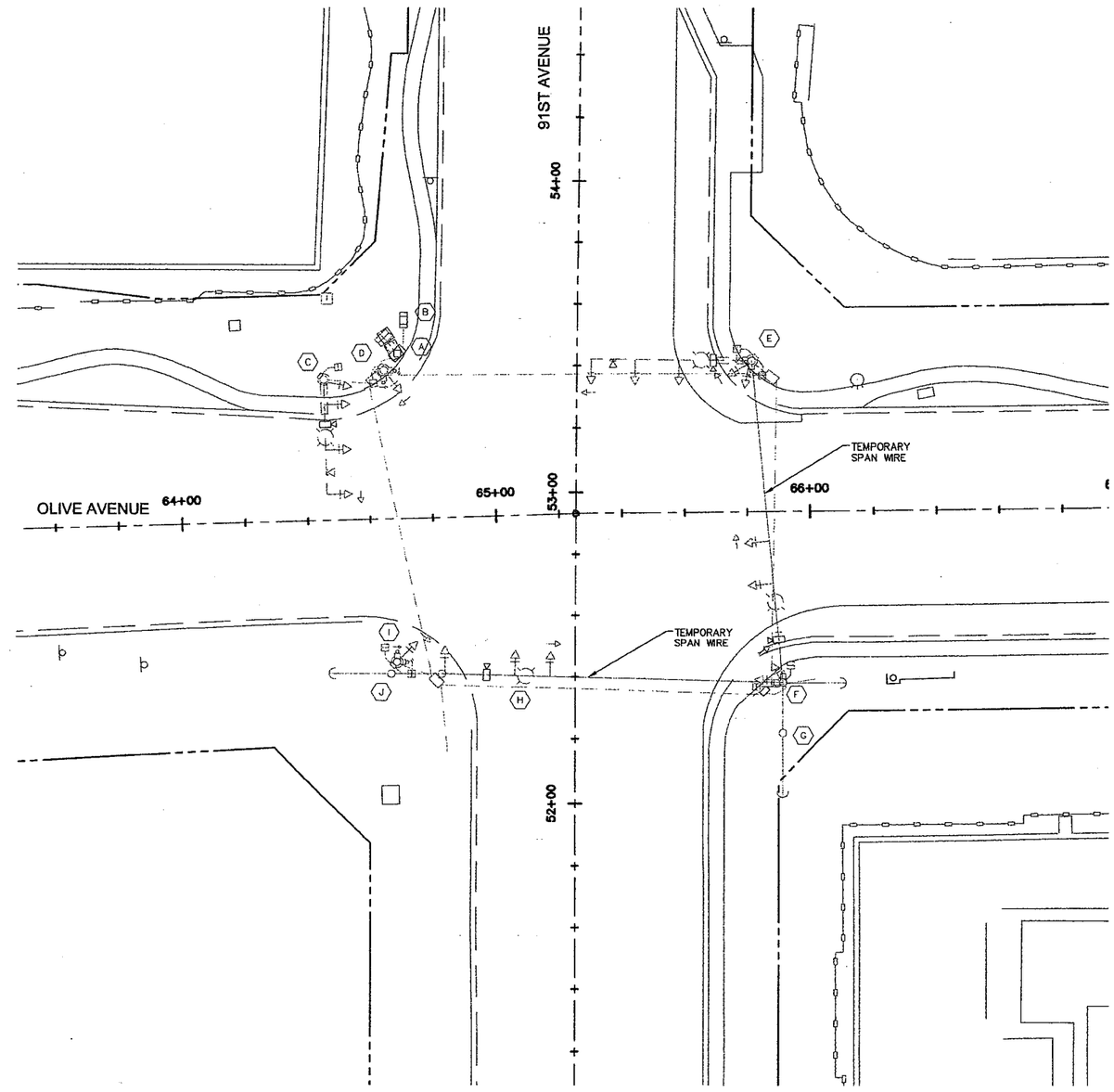
REMOVAL WORK GENERAL NOTES:

1. ALL EXISTING EQUIPMENT TO BE REMOVED SHALL REMAIN IN PLACE AND OPERATIONAL UNTIL THE INSTALLATION OF THE NEW TRAFFIC SIGNAL EQUIPMENT IS COMPLETE.
2. THE CONTRACTOR SHALL RETURN ALL REMOVED TRAFFIC SIGNAL EQUIPMENT TO THE CITY OF PEORIA MUNICIPAL OPERATIONS CENTER, 8850 N. 79TH AVENUE. CONTACT THE TRAFFIC MAINTENANCE SUPERVISOR AT (623) 773-7456 FOR MORE INFORMATION.
3. ALL EXISTING PULL BOXES, FOUNDATIONS, LOOP LEAD-IN CABLE AND CONDUCTORS TO BE REMOVED SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY OFF THE PROJECT.
4. THE CONTRACTOR SHALL BACKFILL AND COMPACT ALL VOIDS AS DIRECTED BY THE ENGINEER.
5. ALL INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE REMOVED.
6. EXISTING VIDEO DETECTION, CONTROLLER CABINET, AND SERVICE CABINET SHALL BE REMOVED AND RETURNED TO THE CITY OF PEORIA MUNICIPAL OPERATIONS CENTER, 8850 N. 79TH AVENUE. CONTACT THE TRAFFIC MAINTENANCE SUPERVISOR AT (623) 773-7456.

EXISTING EQUIPMENT

CABINET	TYPE	CONTROLLER	REMARKS
A	IV	TRAFFIC SIGNAL CONTROLLER	--
B	--	METER PEDESTAL	--

POLE		MAST ARM		SIGNALS		P.B.
NO.	TYPE	SIG.	LUM.	MTG.	FACE	SIGN
C	Q	35'	20'	II II II XI XI	Q F F F M/H	
D	A (16')	--	--	IV XI	Q M/H	T.S. 11-4 R10-4b (L)&(R)
E	R	50'	15'	II II II V XI VII	Q F F F Q M/H(2)	T.S. 11-4 R10-4b (L)&(R)
F	WOOD	--	15'	I-CLAMP I-CLAMP XI 2-XI	Q F F M/H (2)	--
G	WOOD	--	--	--	--	--
H	WOOD	--	15'	I-CLAMP I-CLAMP XI	Q F F	--
I	A (16')	--	--	IV VII	Q M/H(2)	T.S. 11-4 R10-4b (L)&(R)
J	WOOD	--	--	--	--	--



REDUCED SIZE
DO NOT SCALE

NORTH

SCALE: 1"=20'
0 10 20 40

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(ARIZONA BLUE STAKE, INC.)

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CITY OF PEORIA PROJECT NO. P-0315

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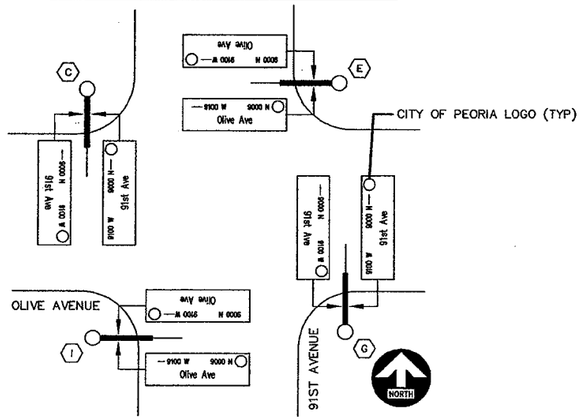
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
TRAFFIC SIGNAL REMOVAL PLAN

Registered Professional Engineer (Civil)
CERTIFICATE NO. 39165
IRWAY P. YPARRAGUIRRE
Date Signed 11-30-09
ARIZONA, U.S.A.
Expires 06/30/2010

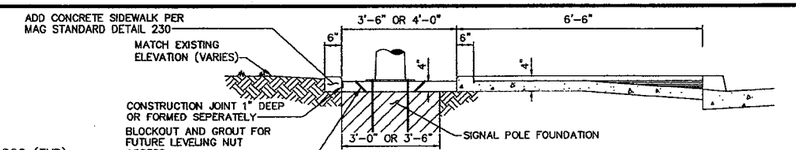
DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= VERTICAL=	
SHEET	TS-01
SHEET	83 OF 104
DATE	11/2009
W.O.	

ILLUMINATED STREET NAME SIGN DETAIL

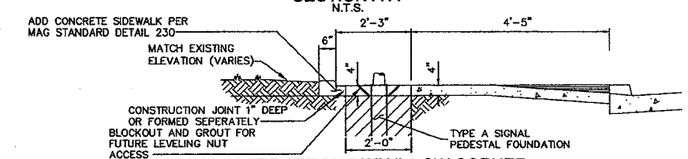


GENERAL NOTES

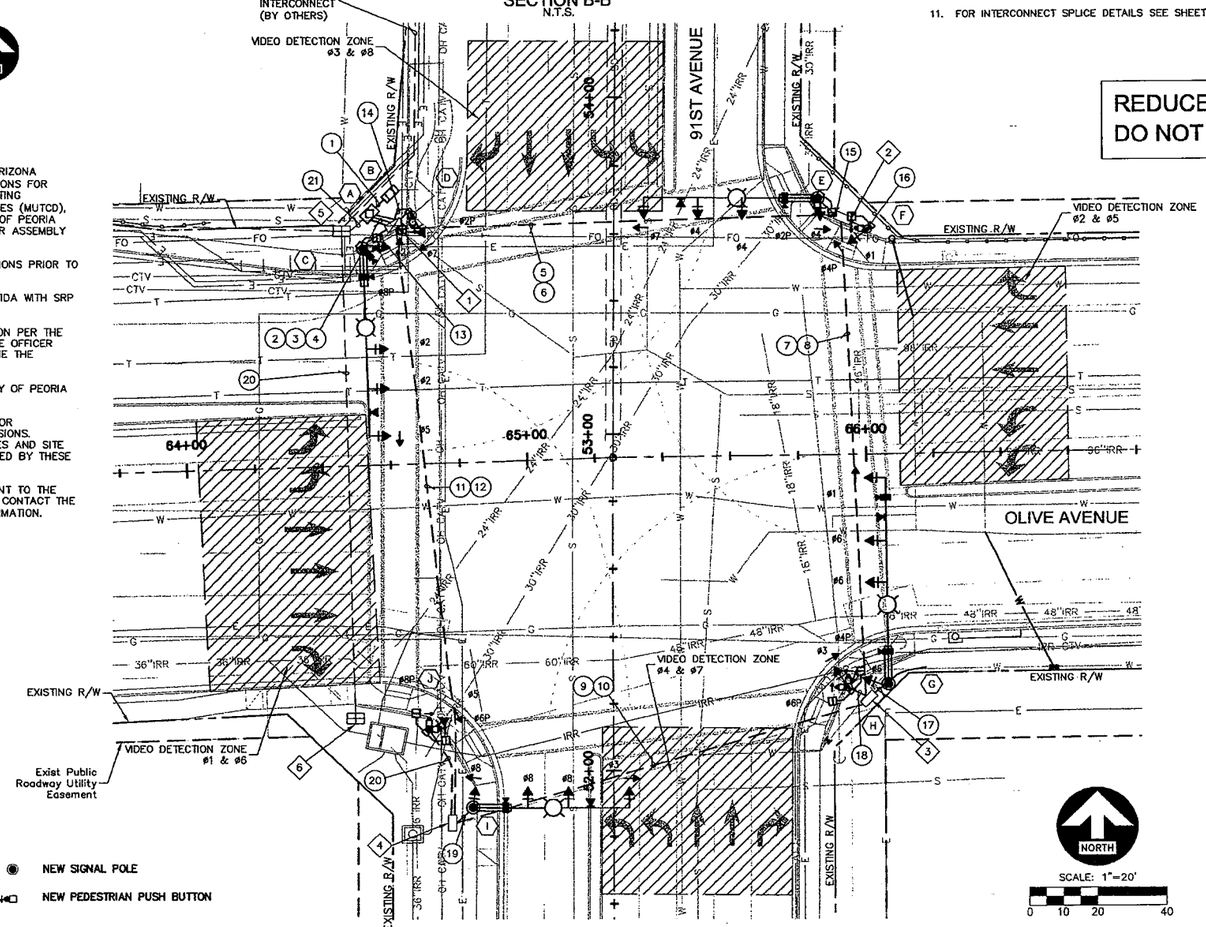
1. ALL MATERIAL, EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE ARIZONA DEPARTMENT OF TRANSPORTATION (A.D.O.T.) 2008 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION; THE 2004 TRAFFIC SIGNALS AND LIGHTING STANDARD DRAWINGS; THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION ADOPTED BY ADOT; THE SPECIAL PROVISIONS; THE CITY OF PEORIA TRAFFIC SIGNAL CABINET ASSEMBLY BID DOCUMENTATION FOR CONTROLLER ASSEMBLY SPECIFICATIONS, AND THESE PLANS.
2. THE CONTRACTOR SHALL CONTACT ALL UTILITIES FOR BLUE STAKE LOCATIONS PRIOR TO ANY CONSTRUCTION.
3. FOR ELECTRIC SERVICE INSTALLATION REQUIREMENTS CONTACT PETE PARTIDA WITH SRP ELECTRIC AT (602) 236-0436.
4. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL DURING CONSTRUCTION PER THE MUTCD AND THE CITY OF PHOENIX TRAFFIC BARRICADE MANUAL. A POLICE OFFICER SHALL BE PROVIDED BY THE CONTRACTOR FOR THE INTERSECTION ANYTIME THE CONSTRUCTION OCCURS 300' FROM THE INTERSECTION.
5. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE CITY OF PEORIA PRIOR TO CONSTRUCTION.
6. THE QUANTITIES AND SITE CONDITIONS DEPICTED ON THESE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY AND ARE SUBJECT TO ERROR AND OMISSIONS. CONTRACTORS SHALL SATISFY THEMSELVES AS TO THE ACTUAL QUANTITIES AND SITE CONDITIONS PRIOR TO BIDDING THE WORK FOR THE CONSTRUCTION COVERED BY THESE PLANS.
7. THE CONTRACTOR SHALL RETURN ALL REMOVED TRAFFIC SIGNAL EQUIPMENT TO THE CITY OF PEORIA MUNICIPAL OPERATIONS CENTER, 8850 N. 79TH AVENUE. CONTACT THE TRAFFIC MAINTENANCE SUPERVISOR AT (623) 773-7456 FOR MORE INFORMATION.
8. ELECTRICAL SERVICE ADDRESS: 9108 W. OLIVE AVENUE



CONCRETE APRON DETAIL
SECTION A-A
N.T.S.



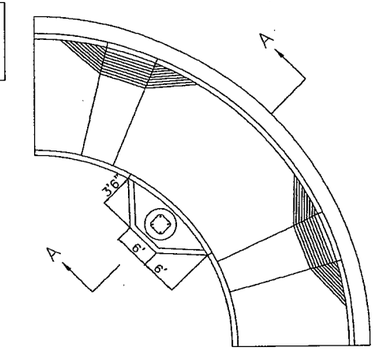
CONCRETE APRON DETAIL - SW CORNER
SECTION B-B
N.T.S.



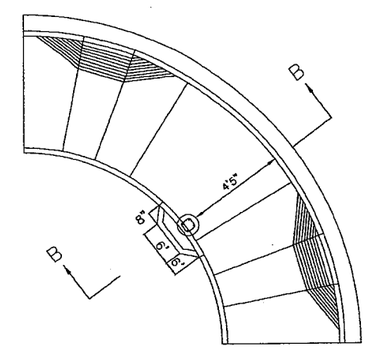
REDUCED SIZE
DO NOT SCALE

CONSTRUCTION NOTES

1. ALL BACKPLATES FOR SIGNAL FACES SHALL BE METAL LOUVERED.
2. CONTRACTOR TO PROVIDE NEW IMSA CONDUCTORS. NO SPLICING OF CONDUCTORS IN CONDUIT RUN WILL BE ALLOWED. PULL NEW CONDUCTORS INTO CONDUIT AS SPECIFIED IN THE CONDUCTOR SCHEDULE. ALL IMSA CONDUCTORS SHALL BE INSTALLED WITHOUT SPLICING FROM THE SIGNAL HEAD TO THE PULL BOXES. TS BLOCKS SHALL NOT BE USED AS A CONNECTION POINT BETWEEN THE PULL BOX AND THE VEHICLE OR PEDESTRIAN INDICATIONS.
3. ALL PULL BOXES SHALL BE LEFT IN A CLEAN CONDITION, FREE OF DIRT AND DEBRIS UPON COMPLETION OF THE WORK.
4. THE CONTRACTOR SHALL COORDINATE WITH SRP FOR ELECTRIC SERVICE. SRP WILL PULL NEW SERVICE WIRE FROM THE POWER SOURCE POINT OF DELIVERY (P.O.D.) TO THE NEW METER PEDESTAL LOCATION. THE CONTRACTOR SHALL PROVIDE AND INSTALL SERVICE CONDUIT FROM SRP SERVICE P.O.D. TO THE METER PEDESTAL PER SRP INSTALLATION REGULATIONS. CONTACT PETE PARTIDA WITH SRP ELECTRIC AT (602) 236-0436 A MINIMUM OF 30 DAYS PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING TRANSFORMER CONCRETE PAD IN ACCORDANCE WITH SRP GUIDELINES. SRP IS RESPONSIBLE FOR PROVIDING AND INSTALLING THE SINGLE PHASE TRANSFORMER AND SERVICE CONDUCTORS.
6. CONSTRUCT NEW CONCRETE APRON AROUND TRAFFIC SIGNAL POLE BASES PER THE DETAILS ON THIS SHEET.
7. PRIOR TO THE CONSTRUCTION, THE CONTRACTOR SHALL POTHOLE AND VERIFY LOCATIONS OF IRRIGATION LINES AND OTHER UTILITIES.
8. DURING CONSTRUCTION, IF EXISTING IRRIGATIONS AND LANDSCAPING IS DISTURBED, IT IS THE CONTRACTORS RESPONSIBILITY FOR REPLACING, IN KIND, DISTURBED IRRIGATION AND LANDSCAPING. REPLACEMENT SHALL BE INCIDENTAL TO THE TRAFFIC SIGNAL INSTALLATION COST.
9. EXISTING VIDEO DETECTION SHALL BE REMOVED AND SALVAGED.
10. CONTRACTOR SHALL INSTALL A NEW SPLICE CLOSURE, NEW FAN OUT KIT, FIBER DISTRIBUTION UNIT (PANDUIT OPTICOM FWME-2) AND 12 STRAND SINGLE MODE FIBER OPTIC CABLE FROM COMMUNICATION SPLICE VAULT ON NORTHWEST CORNER TO CONTROLLER CABINET. CONTRACTOR SHALL COIL 50 FEET OF FIBER OPTIC CABLE IN SPLICE VAULT.
11. FOR INTERCONNECT SPLICE DETAILS SEE SHEET TS-04.



CONCRETE APRON DETAIL
N.T.S.

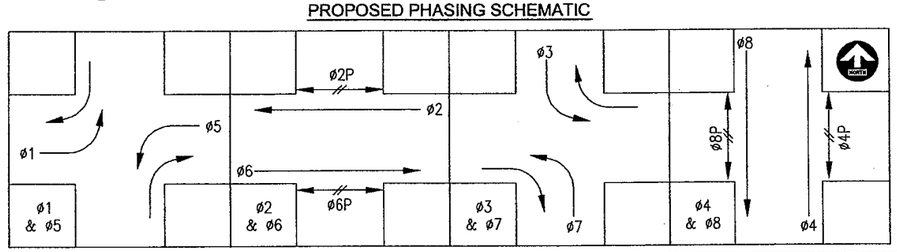


CONCRETE APRON DETAIL - SW CORNER
N.T.S.

LEGEND

- NEW CONDUIT RUN
- EXISTING CONDUIT RUN
- NEW SIGNAL POLE/CONTROLLER
- NEW PULL BOX IDENTIFIER
- EXISTING PULL BOX IDENTIFIER
- NEW CONTROLLER
- NEW METER PEDESTAL
- EXISTING CITY OF PEORIA COMM BOX
- NEW #7 PULL BOX W/ EXTENSION
- NEW #7 PULL BOX
- EXISTING #7 PULL BOX
- NEW SIGNAL POLE
- NEW PEDESTRIAN PUSH BUTTON
- NEW PEDESTRIAN HEAD
- NEW LUMINAIRE
- NEW SIGNAL FACE
- NEW EMERGENCY VEHICLE DETECTOR (EVD)
- VIDEO DETECTION DEVICE
- NEW ILLUMINATED STREET NAME SIGN (ISNS)
- NEW CONDUIT RUN
- EXISTING CONDUIT RUN

PROPOSED PHASING SCHEMATIC



FLASH PHASE TOGETHER	
PHASE 1,2,5,6	FLASH CRT #1
PHASE 3,4,7,8	FLASH CRT #2
FLASH SEQUENCE	
PHASE 1,2,5,6	RED
PHASE 3,4,7,8	RED

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ADOT TRACS NO. 000 MA PEO SS 60301C
CITY OF PEORIA PROJECT NO. P-0315

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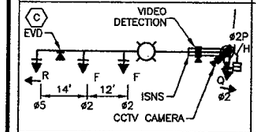
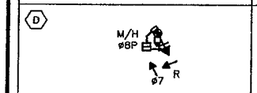
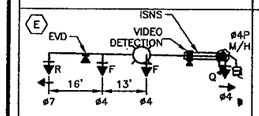
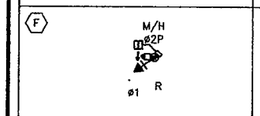
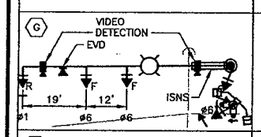
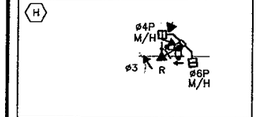
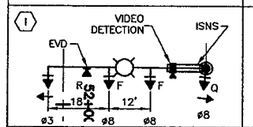
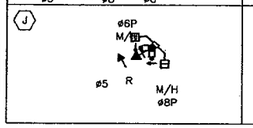
91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS TRAFFIC SIGNAL PLAN

Registered Professional Engineer (Civil) CERTIFICATE NO. 39165 RAY P. PARRAGUIRRE Date Signed 11/30/09 ARIZONA, U.S.A. Expires 06/30/2012

DESIGNED BY: LJA
DRAWN BY: LJA/TEM
SCALE:
HORIZONTAL=
VERTICAL=
SHEET TS-02
SHEET 84 OF 104
DATE 11/2009
W.O.

POLE LAYOUT SCHEDULE

TRAFFIC SIGNAL CONTROLLER							
CABINET	TYPE	CONTROLLER	AUX. CONTROL			REMARKS	LOCATION
(A) PEC	ECONOLITE TS-2 TYPE 1 SIZE 6	ECONOLITE TS-2 ASC/3-1000	NEW CABINET			1 THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF THE NEW CONTROL CABINET FOUNDATION PER ADOT 2 INSTALL OPTICOM 754 PHASE SELECTION CARD 3 INSTALL AUTOSCOPE TERRA TIP AND TAP INTERFACE	BY ENGINEER MAINTENANCE SUPERVISOR IN FIELD.
(B)	MYERS MEUG16-TS		NEW CABINET			1 INSTALL NEW METER PEDESTAL CABINET FOUNDATION PER ADOT STD DWG T.S. 2-6. 2 ELECTRICAL SERVICE ADDRESS: 9108 W. OLIVE AVENUE	OLIVE AVE STA 64+62 81' LT
POLES		MAST ARM		SIGNALS		P.B. SIGN	REMARKS	LOCATION
NO. LAYOUT	TYPE	SIG.	LUM.	MTG.	FACE			
(C) 	R	55'	20'	II II II XI V	R F F Q M/H	T.S. 11-4 R10-4b (L)	1 RELOCATE ISNS "91ST AVE" TO NEW SIGNAL POLE, SEE ISNS DETAIL 2 (2) INSTALL TYPE F SIGNAL HEADS 3 (1) INSTALL TYPE Q SIGNAL HEAD 4 (1) INSTALL TYPE R SIGNAL HEAD 5 (1) INSTALL ADA PEDESTRIAN PUSH BUTTON 6 (1) INSTALL PEDESTRIAN SIGNAL HEAD 7 (1) PROVIDE AND INSTALL NEW EVD 8 INSTALL TYPE 'R' SIGNAL POLE AND FOUNDATION PER ADOT DETAIL TS 4-11 9 VIDEO DETECTION. SEE GENERAL NOTE 12 10 INSTALL 55' SMA AND 20' LMA 11 PROVIDE AND INSTALL NEW 250W LUMINAIRE 12 INSTALL CCTV EQUIPMENT. SEE SHEET TS-04.	OLIVE AVE STA 64+57 66' LT
(D) 	A (16')	–	–	XI V	R M\H	T.S. 11-4 R10-4b (R)	1 (1) INSTALL TYPE R SIGNAL HEAD 2 (1) INSTALL ADA PEDESTRIAN PUSH BUTTON 3 (1) INSTALL PEDESTRIAN SIGNAL HEAD 4 (1) INSTALL TYPE 'A' SIGNAL POLE AND FOUNDATION PER ADOT DETAIL TS 4-1	OLIVE AVE STA 64+68 74' LT
(E) 	R	50'	20'	II II II XI V	R F F Q M/H	T.S. 11-4 R10-4b (L)	1 RELOCATE ISNS "OLIVE AVE" TO NEW SIGNAL POLE, SEE ISNS DETAIL 2 (2) INSTALL TYPE F SIGNAL HEADS 3 (1) INSTALL TYPE Q SIGNAL HEAD 4 (1) INSTALL TYPE R SIGNAL HEAD 5 (1) INSTALL ADA PEDESTRIAN PUSH BUTTON 6 (1) INSTALL PEDESTRIAN SIGNAL HEAD 7 (1) PROVIDE AND INSTALL NEW EVD 8 INSTALL TYPE 'R' SIGNAL POLE AND FOUNDATION PER ADOT DETAIL TS 4-11 9 VIDEO DETECTION. SEE GENERAL NOTE 12 10 INSTALL 45' SMA AND 20' LMA 11 PROVIDE AND INSTALL NEW 250W LUMINAIRE	OLIVE AVE STA 65+88 77' LT
(F) 	A (16')	–	–	XI V	R M\H	T.S. 11-4 R10-4b (R)	1 (1) INSTALL TYPE R SIGNAL HEAD 2 (1) INSTALL ADA PEDESTRIAN PUSH BUTTON 3 (1) INSTALL PEDESTRIAN SIGNAL HEAD 4 (1) INSTALL TYPE 'A' SIGNAL POLE AND FOUNDATION PER ADOT DETAIL TS 4-1	OLIVE AVE STA 66+02 67' LT
(G) 	R (MOD.)	60'	25'	II II II XI	R F F Q		1 RELOCATE ISNS "91ST AVE" TO NEW SIGNAL POLE, SEE ISNS DETAIL 2 (2) INSTALL TYPE F SIGNAL HEADS 3 (1) INSTALL TYPE Q SIGNAL HEAD 4 (1) INSTALL TYPE R SIGNAL HEAD 5 (1) PROVIDE AND INSTALL NEW EVD 6 INSTALL TYPE 'R' SIGNAL POLE AND FOUNDATION PER ADOT DETAIL TS 4-11 7 VIDEO DETECTION. SEE GENERAL NOTE 12 8 INSTALL 55' SMA AND 20' LMA 9 PROVIDE AND INSTALL NEW 250W LUMINAIRE	OLIVE AVE STA 66+06 68' RT
(H) 	A (16')	–	–	XI VII	R M/H(2)	T.S. 11-4 R10-4b (L)&(R)	1 (1) INSTALL TYPE R SIGNAL HEAD 2 (2) INSTALL ADA PEDESTRIAN PUSH BUTTONS 3 (2) INSTALL PEDESTRIAN SIGNAL HEADS 4 (1) INSTALL TYPE 'A' SIGNAL POLE AND FOUNDATION PER ADOT DETAIL TS 4-1	OLIVE AVE STA 65+92 69' RT
(I) 	R	45'	20'	II II II XI	R F F Q	–	1 RELOCATE ISNS "OLIVE AVE" TO NEW SIGNAL POLE, SEE ISNS DETAIL 2 (2) INSTALL TYPE F SIGNAL HEADS 3 (1) INSTALL TYPE Q SIGNAL HEAD 4 (1) INSTALL TYPE R SIGNAL HEAD 5 (1) PROVIDE AND INSTALL NEW EVD 6 INSTALL TYPE 'Q' SIGNAL POLE AND FOUNDATION PER ADOT DETAIL TS 4-10 7 VIDEO DETECTION. SEE GENERAL NOTE 12 8 INSTALL 40' SMA AND 20' LMA 9 PROVIDE AND INSTALL NEW 250W LUMINAIRE	OLIVE AVE STA 64+80 102' RT
(J) 	A (16')	–	–	XI VII	R M/H(2)	T.S. 11-4 R10-4b (L)&(R)	1 (1) INSTALL TYPE R SIGNAL HEAD 2 (2) INSTALL ADA PEDESTRIAN PUSH BUTTONS 3 (2) INSTALL PEDESTRIAN SIGNAL HEADS 4 (1) INSTALL TYPE 'A' SIGNAL POLE AND FOUNDATION PER ADOT DETAIL TS 4-1	OLIVE AVE STA 64+69 79' RT

LEGEND:

ISNS = ILLUMINATED STREET NAME SIGN

EVD = EMERGENCY VEHICLE DETECTION

SMA = SIGNAL MAST ARM

LMA = LUMINAIRE MAST ARM

POLE SCHEDULE NOTES

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL FOUNDATION LOCATIONS FOR POTENTIAL CONFLICTS.
2. TOP OF NEW POLE FOUNDATIONS SHALL BE AT THE SAME ELEVATION AS THE ADJACENT SIDEWALK. THE CONTRACTOR SHALL COMPACT THE FILL AROUND THE POLE FOUNDATIONS FOR STRUCTURAL SUPPORT. SEE CONCRETE APRON DETAIL.
3. ALL RED, YELLOW, AND GREEN VEHICLE SIGNAL INDICATIONS AND FILLED IN INLINE MAN/HAND COUNTDOWN PEDESTRIAN INDICATIONS SHALL BE LED MODULES. SEE SPECIAL PROVISIONS.
4. 52,000 HOUR LAMPS TO BE USED IN LUMINAIRES.
5. THE PEDESTRIAN PUSH BUTTON SHALL CONFORM TO A.D.O.T. STANDARD DRAWING T.S. 11-1 EXCEPT THE PUSH BUTTON SHALL BE A MINIMUM 2 INCHES IN DIAMETER. THE PUSH BUTTON SHALL BE RAISED FROM THE PUSH BUTTON HOUSING. THE FORCE REQUIRED TO ACTIVATE THE CONTROL SHALL BE NO GREATER THAN 5 LBS. OF FORCE. PUSH BUTTON MUST MEET ADA REQUIREMENTS AND BE MOUNTED AT ADA REQUIRED HEIGHT. INSTALL THE R10-4b PEDESTRIAN PUSH BUTTON SIGN(S) ON HOUSING.
6. THE PEDESTRIAN PUSH BUTTON SHALL BE MOUNTED IN ACCORDANCE WITH A.D.O.T. STANDARD DRAWING T.S. 4-21 EXCEPT THE CENTER OF THE PUSH BUTTON SHALL BE A MAXIMUM OF 42 INCHES ABOVE THE FINISHED SIDEWALK.
7. SEE SPECIAL PROVISIONS FOR ILLUMINATED STREET NAME SIGN (ISNS) INSTALLATION REQUIREMENTS.
8. PRIOR TO INSTALLATION, THE CONTRACTOR IS RESPONSIBLE FOR POSITIONING THE INDIVIDUAL HEADS SO THEY ARE COMPLETELY VISIBLE TO THE APPROACHING DRIVER THE SIGNAL IS INTENDED TO CONTROL.
9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND PULLING THE NEW CONDUCTORS IN CONDUIT RUNS, AS INDICATED IN THE CONDUCTOR SCHEDULE. CONDUCTORS SHALL NOT BE SPLICED EXCEPT IN PULL BOX.
10. CONCRETE SHALL BE BROUGHT UP TO THE BASE OF THE SIGNAL POLES AT ALL SIDEWALK RAMPS, PER CONCRETE APRON DETAIL ON SHEET TS-02.
11. PROVIDE 6-FOOT COILED CORD IN THE POLICE PANEL OF THE CONTROL CABINET.
12. THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW VIDEO DETECTION TO NEW SIGNAL POLES AND CONTROLLER CABINET.
13. CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL EXISTING CONDUIT RUNS AND PULL BOXES IN THE FIELD AND MAKING ANY NECESSARY REPAIRS TO MEET CURRENT CITY OF PEORIA STANDARDS AND WILL HAVE NEW WIRE.
14. CONTRACTOR, WHEN PURCHASING SIGNAL EQUIPMENT, IS RESPONSIBLE FOR PROVIDING ANCHOR BOLTS, WASHERS, AND HEX NUTS ASSSOCIATED WITH THE TRAFFIC SIGNAL POLE BASES.

CONDUCTOR SCHEDULE

CONDUIT RUN NUMBER		1	2	3	4	5	6	7	8	9	10	11	12	13		14		15		16		17		18		19		20		21	22	
CONDUIT SIZE IN INCHES		2½	3	3	3	3	3	3	3	3	3	3	3	3		3		3		3		3		3		3		3		3	4-1½ ●	
IMSA CABLE	NO. OF CABLES	3	2			2		2				2		4	2	3	0	4	2	3	0	2	2	5	0	2	2	5	0			
	NO. OF CONDUCTORS	1	20			20		20				20		4	7	4	7	4	7	4	7	4	7	4	7	4	7	4	7			
IMSA*	SIGNAL ø1		3			3		3				2		6	3					3			3				2					
	SIGNAL ø2		3																													
	SIGNAL ø3		3			3		3				3												3			3					
	SIGNAL ø4		3			3												6	3													
	SIGNAL ø5		3			3						3			3				2									3				
	SIGNAL ø6		3			3		3														6	3									
	SIGNAL ø7		3			3		2							2	3			3				2									
	SIGNAL ø8		3									3														6	3					
	SIGNAL COMMON													2	4	1		2	4	1		2	4	1		2	4	1				
	PED. SIGNAL ø2		2			2										2				2												
	PED. SIGNAL ø4		2			2		2										2						2								
	PED. SIGNAL ø6		2			2		2				2												2				2				
	PED. SIGNAL ø8		2									2																2				
	PED. SIGNAL COMMON															1		1		1				2				2				
	PED. P.B. ø2		1			1										1		1														
	PED. P.B. ø4		1			1		1												1				1								
	PED. P.B. ø6		1			1		1				1												1				1				
	PED. P.B. ø8		1									1																1				
	PED. P.B. COMMON		2			2		2				2				1		1		1				1				2				
	SPARES		2			11		20				21		3	2	3		3	2	3			2	6			2	6				
●	VIDEO DETECTION			4			2		1						1				1				1				1					
	CCTV COMPOSITE CABLE			1											1																	
◇	SERVICE 120V/240V																															
#10	LIGHTING 120V/240V		2			2		2				1			2				2				2				2					
#12	ISNS 120V		2			2		2				1			2				2				2				2					
#8	INSULATED BOND (GREEN) ■		1	1	1	1	1	1	1	1	1	1	1		1		1		1		1		1		1		1		1			
#8	SIGNAL COMMON		1			1		1		1		1																				
▲	EMERGENCY VEHICLE PRE-EMPTION (EVD)				4		2		1				1		1				1								1					
	12 SMFO BRANCH CABLE																													1		

▲ 3-M OPTICOM COM MODEL 711 DETECTOR WITH MODEL 754 PHASE SELECTOR INTERFACE CARD.

● VIDEO DETECTION COMMUNICATION CABLE (ECONOLITE PART #1175 OR APPROVED EQUAL).

* THE IMSA 20-CONDUCTOR, 7-CONDUCTOR AND 4-CONDUCTOR CABLES SHALL BE #14 AWG IMSA 19-1.

◇ TRENCH AND CONDUIT BY CONTRACTOR PER SRP REQUIREMENTS. CONDUCTORS BY SRP.

■ THE INSULATED BOND SHALL HAVE THE INSULATION STRIPPED INSIDE THE PULL BOXES. A CRIMP CONNECTION SHALL BE USED FOR SPLICING IN PULL BOX. PROVIDE REQUIRED 7-CONDUCTOR IMSA CABLES TO APPROPRIATE SIGNAL HEADS FOR FUTURE SIGNAL PHASE OPERATION. INSTALL #8 BARE BOND IN ALL EMPTY/SPARE CONDUITS.

E EXISTING CONDUIT

● 4-1½" – SEE C.O.P. STD DTL PE-033

REDUCED SIZE DO NOT SCALE

JUNCTION BOX SCHEDULE

NO.	TYPE	LOCATION FROM OLIVE AVENUE	INSTALLATION NOTES	NO.	TYPE	LOCATION FROM	INSTALLATION NOTES
(1)	#7 W/ EXT.	64+63, 71' LT	PER ADOT STD DWG T.S.-1-4 & T.S. 1-5	(4)	#7	64+75, 107' RT	PER ADOT STD DWG T.S.-1-4 & T.S. 1-5
(2)	#7	65+97, 69' LT	PER ADOT STD DWG T.S.-1-4 & T.S. 1-5	(5)	#9	–	EXISTING TO REMAIN
(3)	#7	66+00, 73' RT	PER ADOT STD DWG T.S.-1-4 & T.S. 1-5	(6)	COM PULL BOX	64+47, 75' RT	PER C.O.P. STD. DTL PE-034

CONDUCTOR COLOR CODING CRITERIA

IMSA CABLE 19-1, #14 AWG, 4 CONDUCTOR & 7 CONDUCTOR

SIGNAL HEADS OUTBOARD & FAR LEFT	
7 CONDUCTOR CABLE	
BASIC COLOR	SIGNAL INTERVAL
RED	RED
BLACK	YELLOW
GREEN	GREEN
ORANGE	YELLOW ARROW
BLUE	GREEN ARROW
WHITE	VEH. COM.
WHT/BLK TR	VEH. COM.

SIGNAL HEADS INBOARD & SIDEMOUNT	
4 CONDUCTOR CABLE	
BASIC COLOR	SIGNAL INTERVAL
RED	RED
BLACK	YELLOW
GREEN	GREEN
WHITE	VEH. COM.

PEDESTRIAN HEADS	
4 CONDUCTOR CABLE	
BASIC COLOR	SIGNAL INTERVAL
RED	DON'T WALK
BLACK	WALK
GREEN	PED. COM.
WHITE	SPARE

PUSH BUTTON	
4 CONDUCTOR CABLE	
BASIC COLOR	PUSH BUTTON STATION
RED	PUSH BUTTON
WHITE	P.B. COM.
GREEN	SPARE
BLACK	SPARE

THE CABLE SHALL BE TAGGED TO INDICATE PHASE.

IMSA CABLE 19-1, #14 AWG, 20 CONDUCTOR

CABLE #1	CABLE #2	CONDUCTOR COLOR BASIC COLOR	CONDUCTOR COLOR TRACER STRIPE	SIGNAL INTERVAL
ø1	ø5 OR OVERLAP A	RED	WHITE	RED
		BLACK	WHITE	YELLOW
		GREEN	WHITE	GREEN
ø2	ø6 OR OVERLAP B	RED	——	RED
		ORANGE	——	YELLOW
		GREEN	——	GREEN
ø3	ø7 OR OVERLAP C	BLACK	RED	RED
		ORANGE	RED	YELLOW
		BLUE	RED	GREEN
ø4	ø8 OR OVERLAP D	RED	BLACK	RED
		ORANGE	BLACK	YELLOW
		GREEN	BLACK	GREEN
ø2 PED.	ø6 PED.	BLUE	——	WALK
		BLACK	——	DON'T WALK
		WHITE	BLACK	PUSH BUTTON
ø4 PED.	ø8 PED.	BLUE	WHITE	WALK
		RED	GREEN	DON'T WALK
		WHITE	RED	PUSH BUTTON
ALL PHASES	ALL PHASES	WHITE	——	P.B. COMMON
		BLUE	BLACK	SPARE

CABLE #2 SHALL BE MARKED WITH 2 INDIVIDUAL 3/8 INCH WIDE STAINLESS STEEL BANDS, SIDE BY SIDE WITH A 1/2 INCH GAP BETWEEN BANDS, AT EACH PULL BOX LOCATION, INDIVIDUAL CONDUCTORS IN THE CABLE SHALL BE TAGGED AS TO ASSIGNED PHASE.

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ADOT TRACS NO. 000 MA PEO SS 60301C

CITY OF PEORIA PROJECT NO. P-0315

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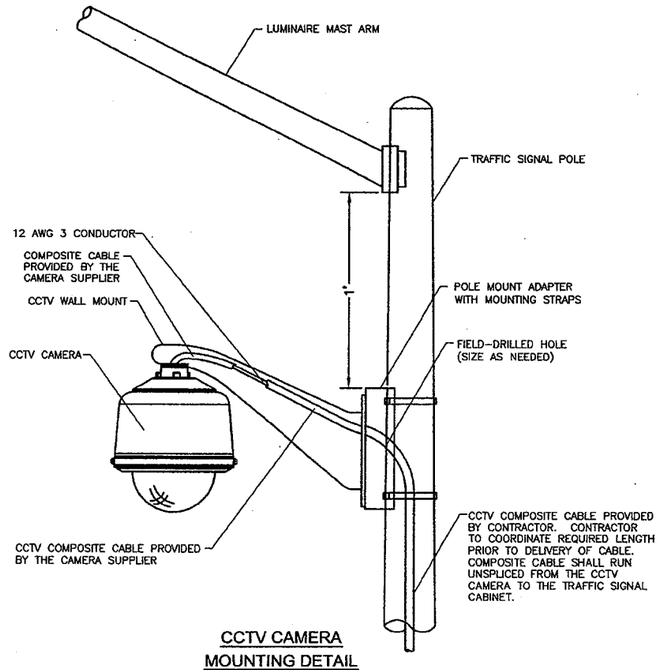
7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS TRAFFIC SIGNAL POLE SCHEDULE

Registered Professional Engineer (Civil) CERTIFICATE NO. 39165 RAY R. YPARAGUIRRE Date Signed 11-30-09 ARIZONA, U.S.A. Expires 06/30/2012

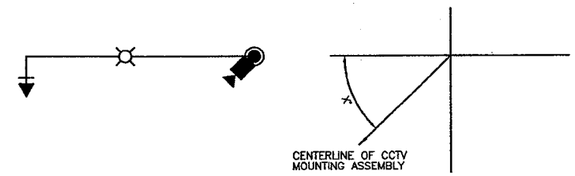
DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= VERTICAL=	
SHEET	TS-03
SHEET	65 OF 104
DATE	11/2009
W.O.	

CALL TWO WORKING DAYS BEFORE YOU DIG 602-263-1100 1-800-STAKE-IT (OUTSIDE MARICOPA COUNTY)



CCTV CAMERA MOUNTING DETAIL

N.T.S.

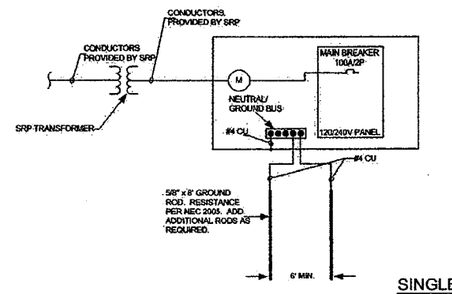


X =THE ROTATION OF THE CCTV CAMERA SHALL BE ALIGNED TO POINT AT THE TRAFFIC SIGNAL POLE ON THE DIAGONALLY OPPOSITE CORNER.

PLAN VIEW A

N.T.S.

91ST AVENUE AND OLIVE AVENUE

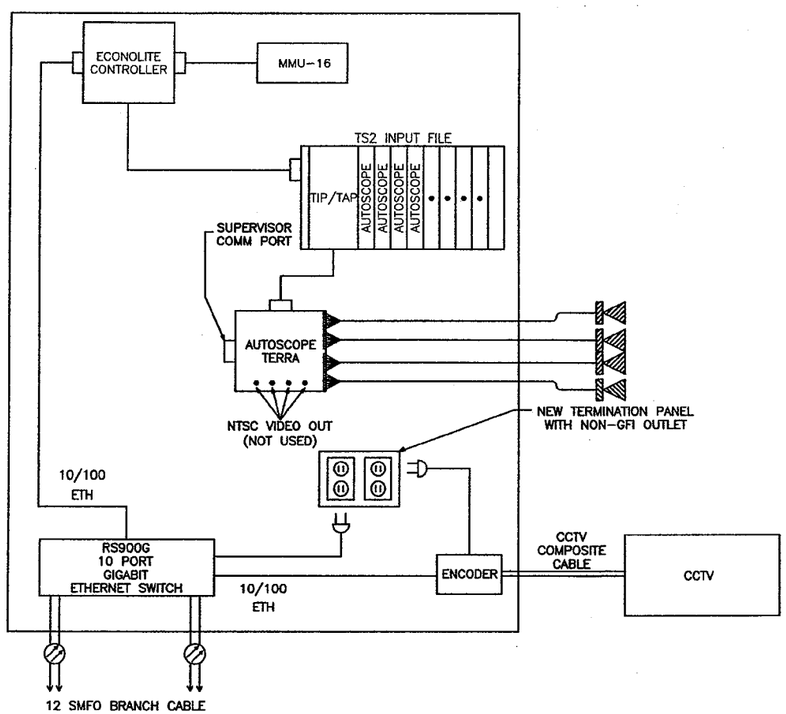


SERVICE TYPE: 120V/240V, SINGLE PHASE, 3W
TOTAL LOAD*: PHASE A: 55.7A; PHASE B: 12.2A
100A/2P MAIN BREAKER

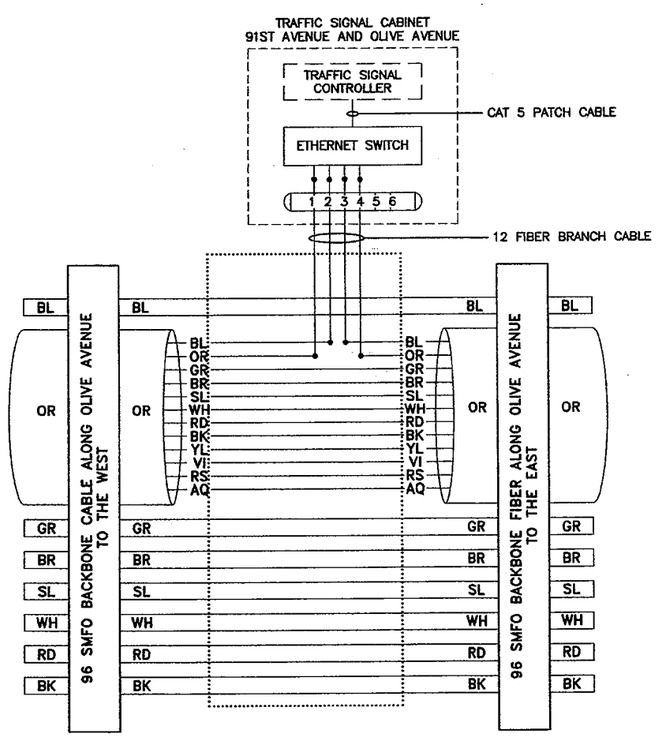
DESCRIPTION	LOAD AMPS	WIRE GAGE	CKT NO	BRKR AMPS	PHASE A POLE	PHASE B POLE	BRKR AMPS	CKT NO	WIRE GAGE	LOAD AMPS	DESCRIPTION
TRAFFIC SIGNAL CONTROLLER	40	12	1	50			20	2	10	4.5	LUMINAIRE
SIGN LIGHTING	5.2	12	3	20				4			
			5					6			
			7					8			
			9					10			
			11					12			

* LOAD X 1.25 FOR CONTINUOUS

SINGLE LINE DIAGRAM



TRAFFIC SIGNAL CABINET DETAIL



INTERCONNECT SPLICE DETAIL

NOTES:

1. COORDINATE PUSD 144 STRAND FIBER OPTIC CABLE WITH KEVIN MOLINO AT 623-486-6294.
2. COORDINATE SPLICE OF THE PEORIA 96 STRAND FIBER WITH THE CITY OF PEORIA ASSISTANT CITY TRAFFIC ENGINEER AT 623-773-7602 BEFORE BEGINNING WORK.
3. ALL FIBER NOT SPLICED TO THE 12 SMFO SHALL BE CONTINUOUS AND NOT SPLICED.
4. ALL FIBER NOT NON-CONTINUOUS SHALL BE TERMINATED WITH A 3-FOOT LONG TAG END COILED IN THE SPLICE ENCLOSURE.

REDUCED SIZE DO NOT SCALE

CALL TWO WORKING DAYS BEFORE YOU DIG 602-263-1100 1-800-STAKE-IT (OUTSIDE MARICOPA COUNTY)

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ADOT TRACS NO. 0000 MA PEO SS 60301C
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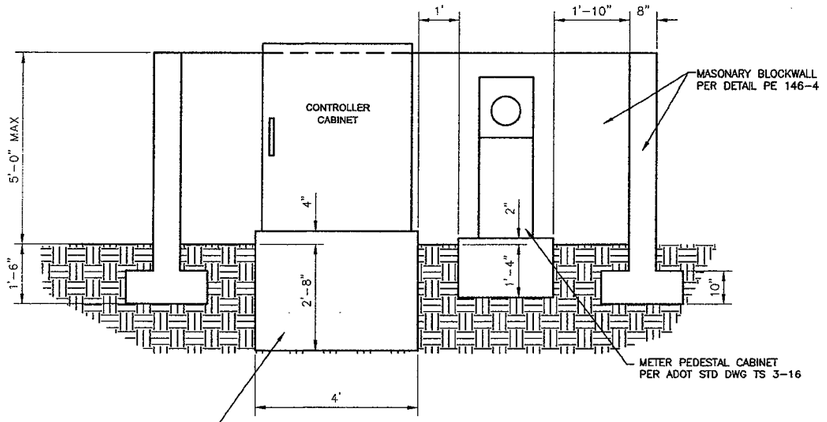
7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

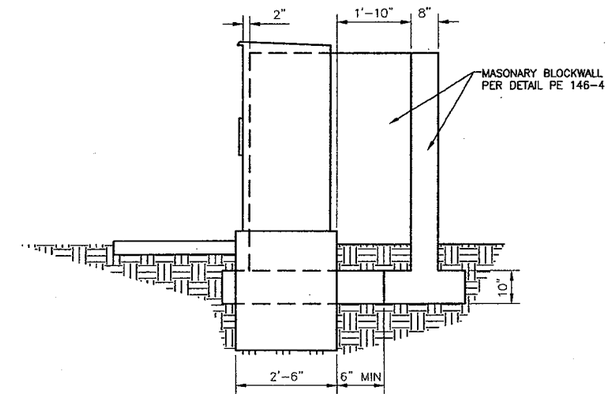
91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS CCTV CAMERA MOUNTING DETAIL AND SPLICE DETAIL

Registered Professional Engineer (Civil) CERTIFICATE NO. 39165 RAY P. TARRAGUIRE Date Signed 11-17-09 ARIZONA, U.S.A. Expires 06/30/2011

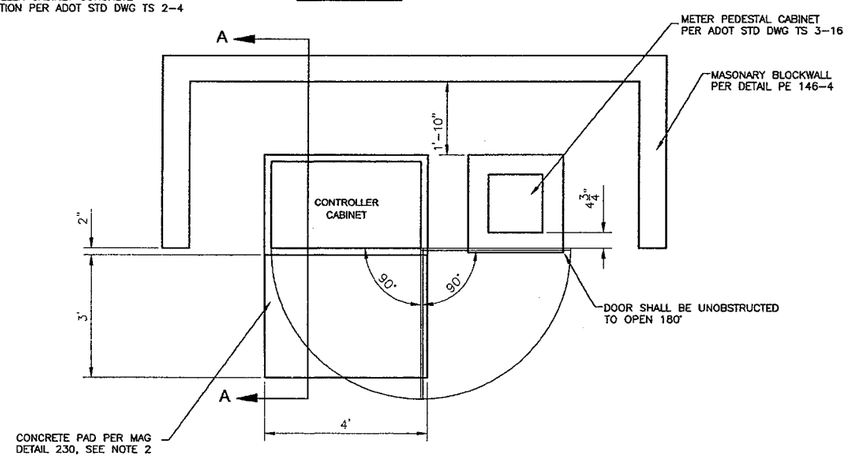
DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= VERTICAL=	
SHEET	TS-04
SHEET	86 OF 104
DATE	11/2009
W.O.	



FRONT VIEW



SECTION A - A



PLAN VIEW

NOTES:

1. CONCRETE COURTESY PAD LOCATION IS CONTROLLED BY THE CONTROLLER/LOCATION OF THE CONTROL CABINET FOUNDATION. COURTESY PAD ADJUSTMENTS MAY BE NECESSARY TO ACCOMMODATE FIELD ORIENTATION AND/OR LOCATION CHANGES. FIELD CHANGES ARE CONSIDERED INCIDENTAL TO THIS ITEM.
2. SLOPE SIDEWALK/COURTESY PAD AWAY FROM CABINET FOUNDATION
3. WALL TO BE BROWN SPLIT FACED BLOCK PAINTED IN ACCORDANCE WITH PEORIA STANDARDS
4. CONCRETE PAD AND FOUNDATION FOR CONTROL CABINET AND METER PEDESTAL SHALL BE PAID UNDER BID ITEMS 7340300-CONTROL CABINET FOUNDATION AND 7340306-METER PEDESTAL FOUNDATION.

BLOCK WALL DETAIL

N.T.S.

REDUCED SIZE
DO NOT SCALE

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(OUTSIDE MARICOPA COUNTY)

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ADOT TRACS NO. 000 MA PEO SS 60301C
CITY OF PEORIA PROJECT NO. P-0315

Kimley-Horn and Associates, Inc.
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7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
CONTROLLER CABINET AND METER
PEDESTAL CABINET AND WALL DETAIL

CERTIFICATE NO. 39165
RAY P. YPARRAGUIRRE
Date Signed 11-19-09
ARIZONA, U.S.A.
Expires 06/30/2012

DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= VERTICAL=	
SHEET	TS-05
SHEET	87 OF 104
DATE	11/2009
W.O.	

PLANT SCHEDULE

TREE	BOTANICAL NAME COMMON NAME	SIZE	QTY
	EXISTING TREE TO REMAIN IN PLACE	VARIES	8
	EXISTING TREE TO BE REMOVED	VARIES	33
	EXISTING SHRUB TO BE REMOVED	VARIES	239
	PARKINSONIA HYBRID DESERT MUSEUM	36" BOX	3

PALMS

	EXISTING PALM TO BE REMOVED	N/A	5

SHRUBS

	EXISTING PLANT TO REMAIN IN PLACE	N/A	51
	CAESALPINIA PULCHERRIMA RED BIRD OF PARADISE	5 GAL	2
	CALLIANDRA CALIFORNICA BAJA FAIRY DUSTER	5 GAL	1
	LEUCOPHYLLUM FRUTESCENS 'GREEN CLOUD'	5 GAL	5
	AGAVE PALMERI PALMER'S AGAVE	5 GAL	8

ACCENTS / GROUNDCOVERS

	LANTANA MONTEVIDENSIS 'GOLD MOUND' GOLD MOUND LANTANA	1 GAL	26
	LANTANA MONTEVIDENSIS 'PURPLE' TRAILING PURPLE LANTANA	1 GAL	67

SIGHT DISTANCE LINE

NOTES:

ROOT BARRIERS ARE INCLUDED IN THE COST OF THE TREE ITEMS.

MATERIAL SUMMARY

MATERIAL	UNIT	QTY
TREE (36" BOX)	EACH	3
SHRUB (5 GALLON)	EACH	28
ACCENT GROUNDCOVER (1 GALLON)	EACH	67
DECOMPOSED GRANITE MATCH EXISTING GRANITE COLOR AND SIZE IF NO EXISTING GRANITE INSTALL MADISON GOLD 3/4" MINUS	SQ. YDS.	3,662

NOTE:

THE ABOVE ARE APPROXIMATE QUANTITIES FOR INFORMATION ONLY. THESE ITEMS SHALL BE INSTALLED AS SHOWN IN THE PLANS AND AS PER SPECIAL PROVISIONS. NO INDIVIDUAL BID ITEMS ARE INCLUDED IN THE BID SCHEDULE. ALL LANDSCAPING AND IRRIGATION WORK TO BE MEASURED AND PAID AS FORCE ACCOUNT WORK UNDER BID ITEM. 9240010 FORCE ACCOUNT WORK (REPAIR LANDSCAPING AND IRRIGATION SYSTEMS)

GENERAL LANDSCAPE NOTES

1. SEE CITY OF PEORIA (CITY) GENERAL LANDSCAPE NOTES SHEET GN-02.
2. THE CONTRACTOR SHALL LOCATE, PROCURE, DELIVER, INSTALL, MAINTAIN AND GUARANTEE ALL SPECIFIED PLANTS, ASSOCIATED LANDSCAPE MATERIALS AND IRRIGATION SYSTEM COMPONENTS. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL LAWS, CODES AND STANDARDS, AND THE REQUIREMENTS OF THE APPLICABLE PERMITS FOR THE PROCUREMENT, SHIPPING, DELIVERY STORAGE AND INSTALLATION OF THESE MATERIALS.
3. ALL EXISTING VEGETATION, WEEDS, AND DEBRIS ARE TO BE REMOVED FROM THE PROJECT AREA OR AS SHOWN ON THE PLANS AND SHALL BE DISPOSED OF LEGALLY OFF-SITE.
4. THE CONTRACTOR SHALL COORDINATE HIS WORK AND CONSTRUCTION SCHEDULE WITH THE GENERAL CONTRACTOR AND OTHER TRADES WORKING ON THE SITE.
5. THE CONTRACTOR SHALL CONSTRUCT A STORAGE YARD FOR LANDSCAPE AND IRRIGATION MATERIALS AND EQUIPMENT, INCLUDING A PLANT HOLDING AREA IN A LOCATION APPROVED BY THE ENGINEER. THE STORAGE YARD SHALL BE SECURED WITH APPROPRIATE FENCING, GATES AND LOCKS.
6. ALL MATERIALS AND EQUIPMENT SHALL BE PROVIDED AND INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. ALL REQUESTS FOR SUBSTITUTIONS OF SPECIFIED MATERIALS, PRODUCTS OR EQUIPMENT SHALL BE MADE TO THE ENGINEER FOR REVIEW AND APPROVAL OR REJECTION IN ACCORDANCE WITH MAG STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS.
7. ALL DISCREPANCIES BETWEEN THE PLANS AND THE ACTUAL SITE CONDITIONS SHALL BE NOTED BY THE CONTRACTOR AND BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO BEGINNING WORK.
8. THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FURNISHED AND INSTALLED UNDER THIS CONTRACT, INCLUDING BUT NOT LIMITED TO TREES, SHRUBS, GROUNDCOVERS, ACCENT PLANTS, CACTUS, ASSOCIATED LANDSCAPE MATERIAL AND IRRIGATION SYSTEM COMPONENTS AS REQUIRED IN THE MAG STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS.
9. IN ALL AREAS DISTURBED BY WORK INCLUDING WITHIN THE TCE, ON THIS JOB, DECOMPOSED GRANITE SHALL BE INSTALL IN THESE AREAS AND REFRESHED IN SURROUNDING AREAS TO BLEND IN. INSTALL DECOMPOSED GRANITE THAT IS AN EXACT MATCH TO EXISTING GRANITE AS TO TYPE, SIZE, GRADATIONS, COLOR, AND GENERAL APPEARANCE.

REDUCED SIZE DO NOT SCALE

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APPROVED

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corral dybas group, inc
Landscape Architecture
4652 South 36th Street
Phoenix, Arizona 85040
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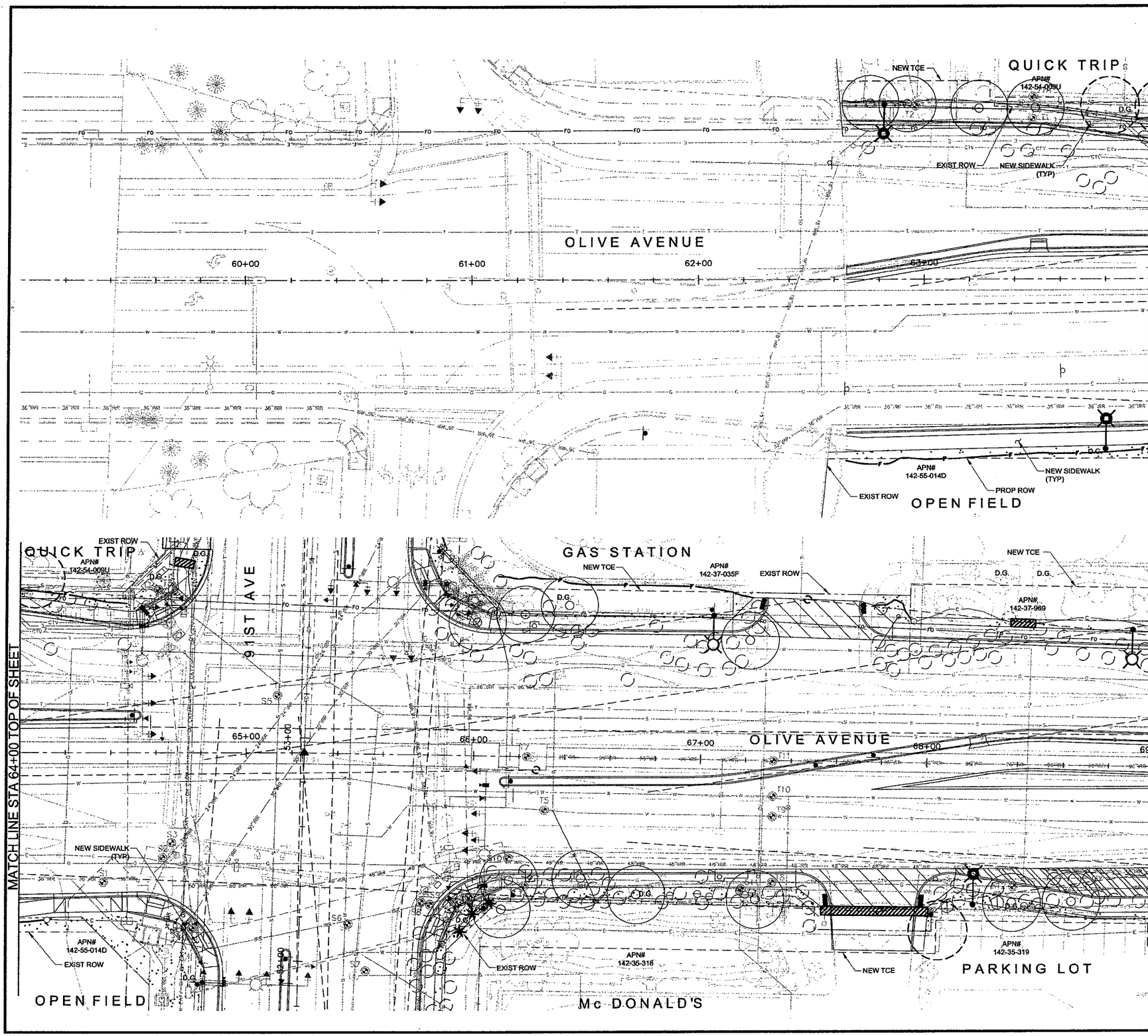
f. (602) 222-9079

91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS LANDSCAPE SUMMARY PLAN

REGISTERED LANDSCAPE ARCHITECT 23447 EDWARD C. CORRAL ARIZONA U.S.A.
EXPIRES: 12/31/2009

DESIGNED BY: OAO
DRAWN BY: JCC
SCALE:
HORIZONTAL=
VERTICAL=
SHEET 68 OF 104
SHEET L1 OF L10
DATE 09/09
W.O.



PLANT SCHEDULE

TREE	BOTANICAL NAME / COMMON NAME	SIZE	QTY
	EXISTING TREE TO REMAIN IN PLACE	VARIES	3
	EXISTING TREE TO BE REMOVED	VARIES	15
	EXISTING SHRUB TO BE REMOVED	VARIES	89
	PARKINSONIA HYBRID DESERT MUSEUM	36" BOX	0
PALMS			
	EXISTING PALM TO BE REMOVED	NA	0
SHRUBS			
	EXISTING PLANT TO REMAIN IN PLACE	NA	1
	CAESALPINIA PULCHERRIMA RED BIRD OF PARADISE	5 GAL	0
	CALLIANDRA CALIFORNICA BAJA FAIRY DUSTER	5 GAL	0
	LEUCOPHYLLUM FRUTESCENS 'GREEN CLOUD'	5 GAL	2
	AGAVE PALMERI PALMER'S AGAVE	5 GAL	3
ACCENTS / GROUNDCOVERS			
	LANTANA MONTEVIDENSIS 'GOLD MOUND' GOLD MOUND LANTANA	1 GAL	9
	LANTANA MONTEVIDENSIS 'PURPLE' TRAILING PURPLE LANTANA	1 GAL	0

REDUCED SIZE
DO NOT SCALE

NEW 4" IRRIGATION SLEEVE

SIGHT DISTANCE LINE

NOTE:
REPAIR AND/OR REPLACE ALL IRRIGATION IMPACTED BY NEW OR REPLACEMENT LANDSCAPE IN ALL PLANTING AREAS. SEE SHEETS L8 TO L10 FOR MORE INFO.

D.G.

INSTALL MATCHING COLOR, SIZE, AND TYPE OF GRANITE MULCH IN ALL DISTURBED PLANTING AND IRRIGATION AREAS OCCURING IN THE R.O.W. AND NEW TCE AREAS.

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)

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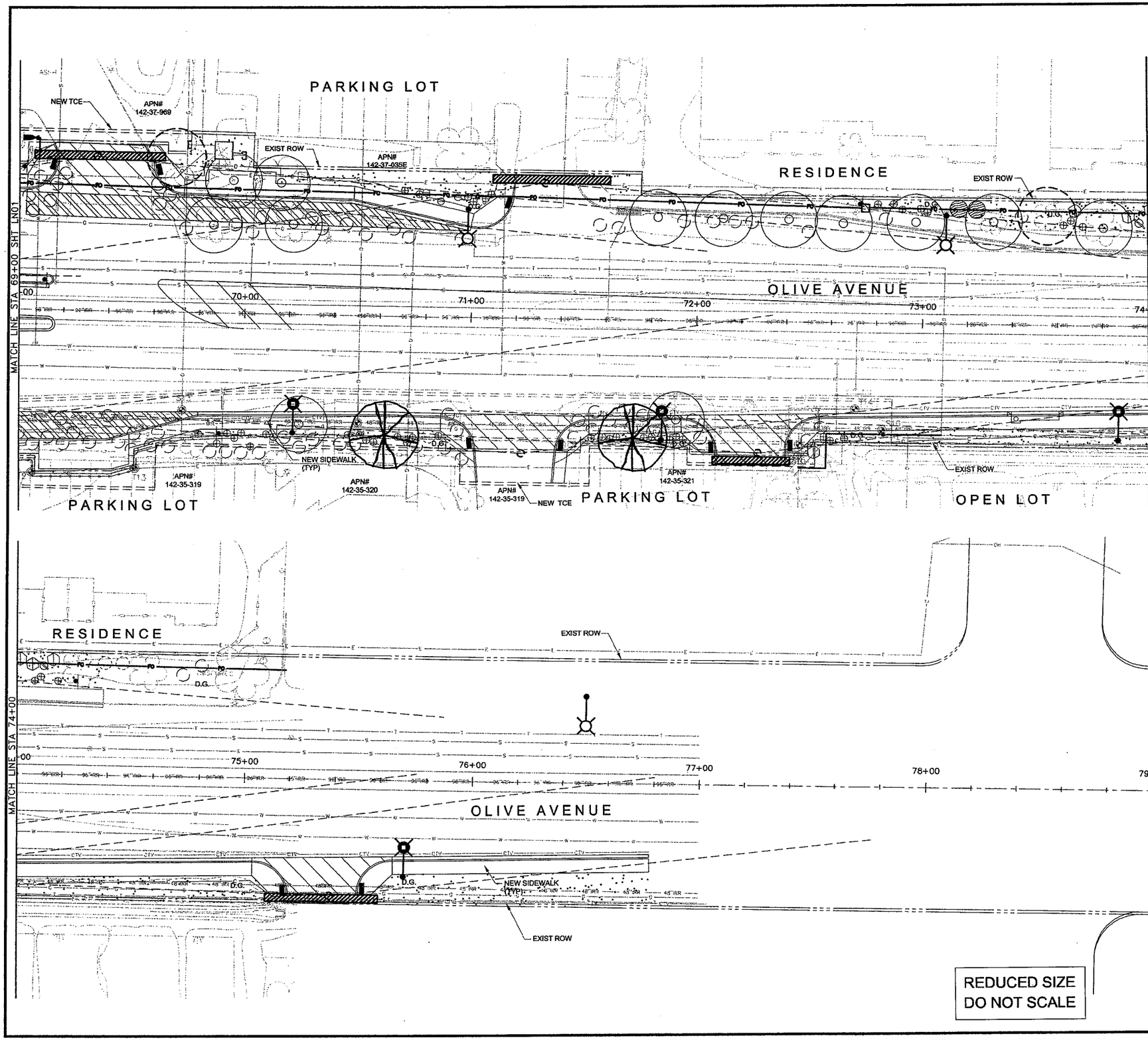
91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS LANDSCAPE PLAN SHEET

REGISTERED LANDSCAPE ARCHITECT 28447 EDWARD C. CORRAL ARIZONA, U.S.A.
EXPIRES: 12/31/2009

DESIGNED BY: OAO
DRAWN BY: JCC
SCALE:
HORIZONTAL=
VERTICAL=
SHEET 89 OF 104
SHEET L2 OF L10
DATE 09/09
W.O.



PLANT SCHEDULE

TREE	BOTANICAL NAME / COMMON NAME	SIZE	QTY
	EXISTING TREE TO REMAIN IN PLACE	VARIES	1
	EXISTING TREE TO BE REMOVED	VARIES	13
	EXISTING SHRUB TO BE REMOVED	VARIES	36
	PARKINSONIA HYBRID DESERT MUSEUM	36" BOX	2
PALMS			
	EXISTING PALM TO BE REMOVED	NA	0
SHRUBS			
	EXISTING PLANT TO REMAIN IN PLACE	NA	2
	CAESALPINIA PULCHERRIMA RED BIRD OF PARADISE	5 GAL	1
	CALLIANDRA CALIFORNICA BAJA FAIRY DUSTER	5 GAL	3
	LEUCOPHYLLUM FRUTESCENS 'GREEN CLOUD'	5 GAL	0
	AGAVE PALMERI PALMER'S AGAVE	5 GAL	0
ACCENTS / GROUNDCOVERS			
	LANTANA MONTEVIDENSIS 'GOLD MOUND' GOLD MOUND LANTANA	1 GAL	0
	LANTANA MONTEVIDENSIS 'PURPLE' TRAILING PURPLE LANTANA	1 GAL	67

NEW 4" IRRIGATION SLEEVE

SIGHT DISTANCE LINE

NOTE:
REPAIR AND/OR REPLACE ALL IRRIGATION IMPACTED BY NEW OR REPLACEMENT LANDSCAPE IN ALL PLANTING AREAS. SEE SHEETS L8 TO L10 FOR MORE INFO.

D.G.

INSTALL MATCHING COLOR, SIZE, AND TYPE OF GRANITE MULCH IN ALL DISTURBED PLANTING AND IRRIGATION AREAS OCCURING IN THE R.O.W. AND NEW TCE AREAS.

GRAPHIC SCALE
20 0 10 20 40
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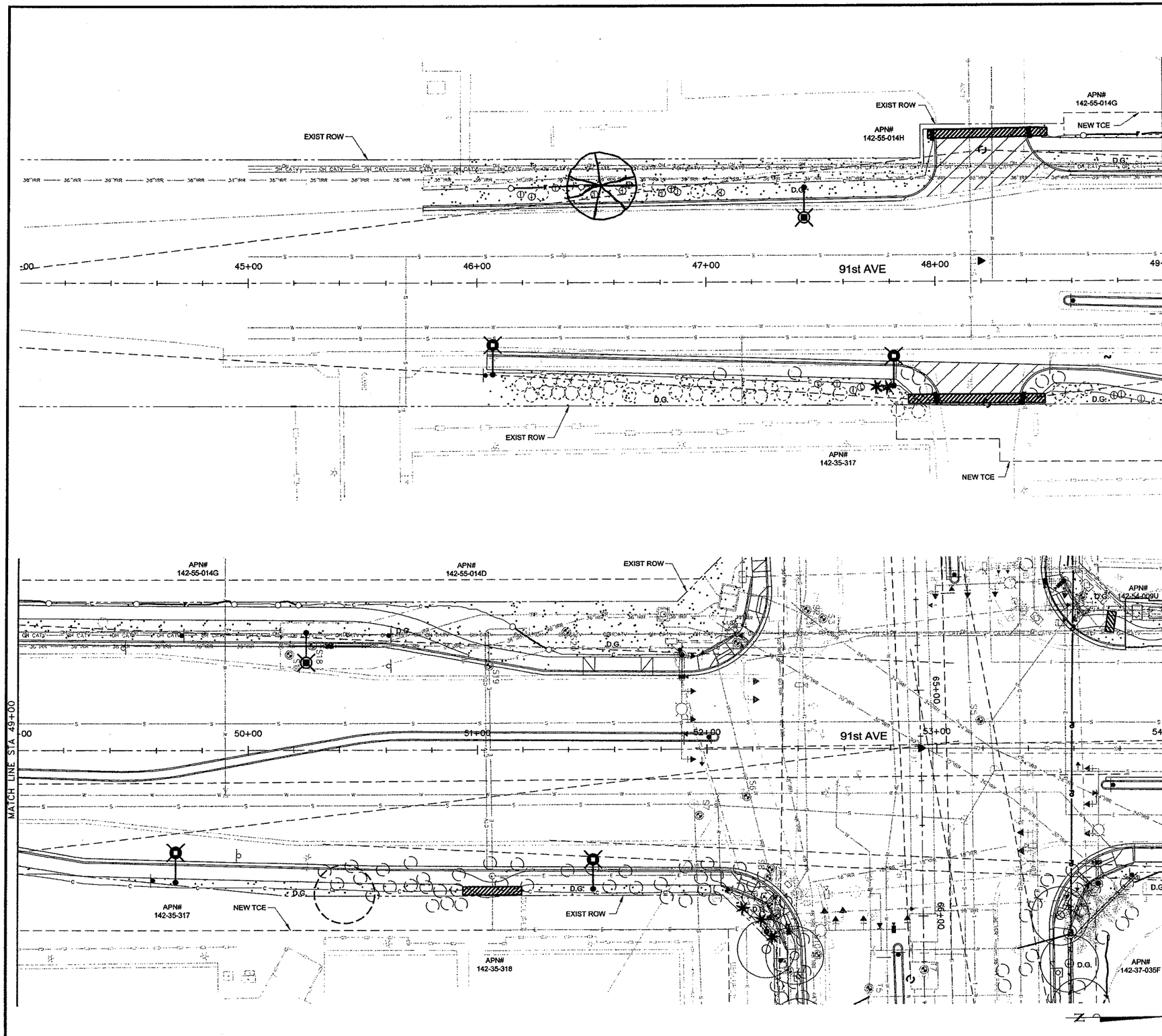
91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
LANDSCAPE PLAN SHEET

REGISTERED LANDSCAPE ARCHITECT 28467 EDWARD C. CORRAL ARIZONA, U.S.A.
EXPIRES: 12/31/2009

DESIGNED BY: OAO
DRAWN BY: JCC
SCALE:
HORIZONTAL=
VERTICAL=
SHEET 50 OF 104
SHEET L3 OF L10
DATE 09/09
W.O.



PLANT SCHEDULE

TREE	BOTANICAL NAME / COMMON NAME	SIZE	QTY
	EXISTING TREE TO REMAIN IN PLACE	VARIES	2
	EXISTING TREE TO BE REMOVED	VARIES	3
	EXISTING SHRUB TO BE REMOVED	VARIES	81
	PARKINSONIA HYBRID DESERT MUSEUM	36" BOX	1

PALMS

	EXISTING PALM TO BE REMOVED	NA	5

REDUCED SIZE DO NOT SCALE

SHRUBS

	EXISTING PLANT TO REMAIN IN PLACE	NA	46
	CAESALPINIA PULCHERRIMA RED BIRD OF PARADISE	5 GAL	0
	CALLIANDRA CALIFORNICA BAJA FAIRY DUSTER	5 GAL	0
	LEUCOPHYLLUM FRUTESCENS 'GREEN CLOUD'	5 GAL	0
	AGAVE PALMERI PALMER'S AGAVE	5 GAL	5

ACCENTS / GROUNDCOVERS

	LANTANA MONTEVIDENSIS 'GOLD MOUND' GOLD MOUND LANTANA	1 GAL	17
	LANTANA MONTEVIDENSIS 'PURPLE' TRAILING PURPLE LANTANA	1 GAL	0

NEW 4" IRRIGATION SLEEVE

SIGHT DISTANCE LINE

NOTE:
REPAIR AND/OR REPLACE ALL IRRIGATION IMPACTED BY NEW OR REPLACEMENT LANDSCAPE IN ALL PLANTING AREAS. SEE SHEETS L8 TO L10 FOR MORE INFO.

D.G.

INSTALL MATCHING COLOR, SIZE, AND TYPE OF GRANITE MULCH IN ALL DISTURBED PLANTING AND IRRIGATION AREAS OCCURING IN THE R.O.W. AND NEW TCE AREAS.

GRAPHIC SCALE
20 0 10 20 40
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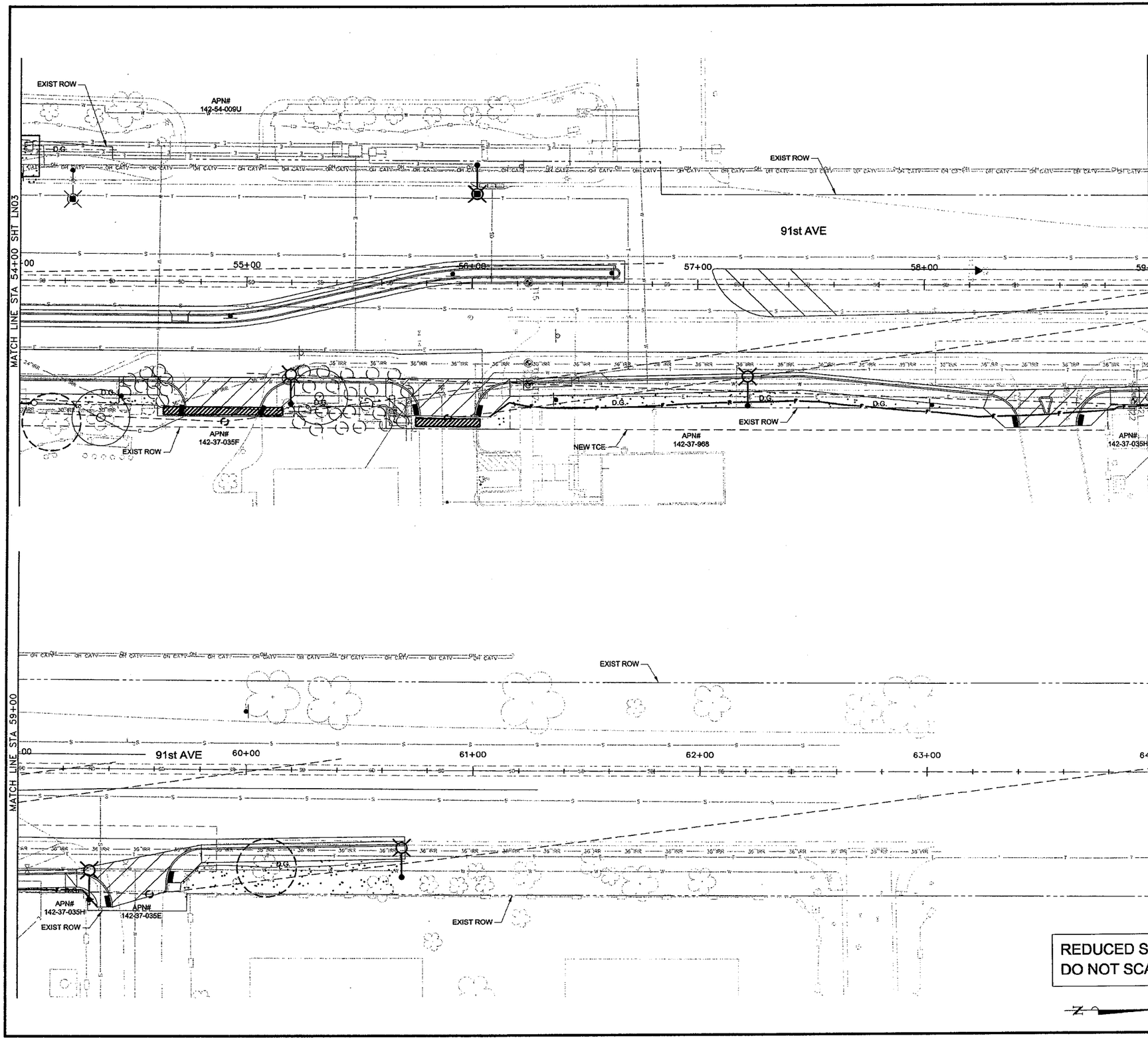
F. (602) 222-9079

91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS LANDSCAPE PLAN SHEET

REGISTERED LANDSCAPE ARCHITECT 23447 EDWARD C. CORRAL ARIZONA U.S.A.
EXPIRES: 12/31/2009

DESIGNED BY:	OAO
DRAWN BY:	JCC
SCALE: HORIZONTAL= VERTICAL=	
SHEET	91 OF 104
SHEET	L4 OF L10
DATE	09/09
W.O.	



PLANT SCHEDULE

TREE	BOTANICAL NAME COMMON NAME	SIZE	QTY
	EXISTING TREE TO REMAIN IN PLACE	VARIES	2
	EXISTING TREE TO BE REMOVED	VARIES	2
	EXISTING SHRUB TO BE REMOVED	VARIES	33
	PARKINSONIA HYBRID DESERT MUSEUM	36" BOX	0
PALMS			
	EXISTING PALM TO BE REMOVED	NA	0
SHRUBS			
	EXISTING PLANT TO REMAIN IN PLACE	NA	2
	CAESALPINIA PULCHERRIMA RED BIRD OF PARADISE	5 GAL	0
	CALLIANDRA CALIFORNICA BAJA FAIRY DUSTER	5 GAL	0
	LEUCOPHYLLUM FRUTESCENS 'GREEN CLOUD'	5 GAL	0
	AGAVE PALMERI PALMER'S AGAVE	5 GAL	0
ACCENTS / GROUNDCOVERS			
	LANTANA MONTEVIDENSIS 'GOLD MOUND' GOLD MOUND LANTANA	1 GAL	0
	LANTANA MONTEVIDENSIS 'PURPLE' TRAILING PURPLE LANTANA	1 GAL	0

NEW 4" IRRIGATION SLEEVE

SIGHT DISTANCE LINE

NOTE:
REPAIR AND/OR REPLACE ALL IRRIGATION IMPACTED BY NEW OR REPLACEMENT LANDSCAPE IN ALL PLANTING AREAS. SEE SHEETS L8 TO L10 FOR MORE INFO.

D.G.

INSTALL MATCHING COLOR, SIZE, AND TYPE OF GRANITE MULCH IN ALL DISTURBED PLANTING AND IRRIGATION AREAS OCCURING IN THE R.O.W. AND NEW TCE AREAS.

REDUCED SIZE
DO NOT SCALE

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)

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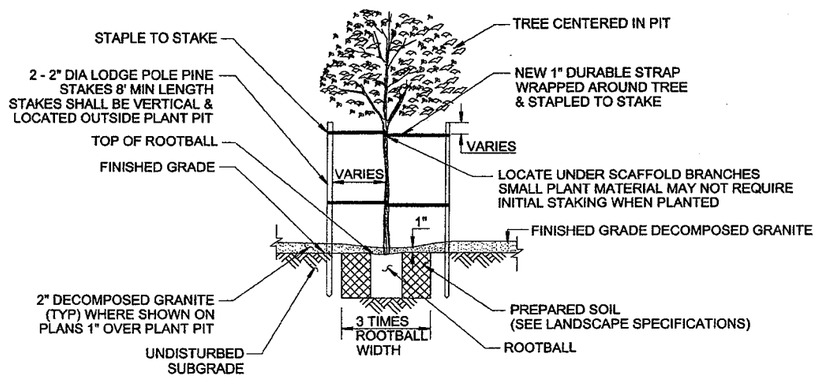
F: (602) 222-9919

91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS LANDSCAPE PLAN SHEET

REGISTERED LANDSCAPE ARCHITECT 28487 EDWARD C. CORRAL ARIZONA U.S.A.
EXPIRES: 12/31/2009

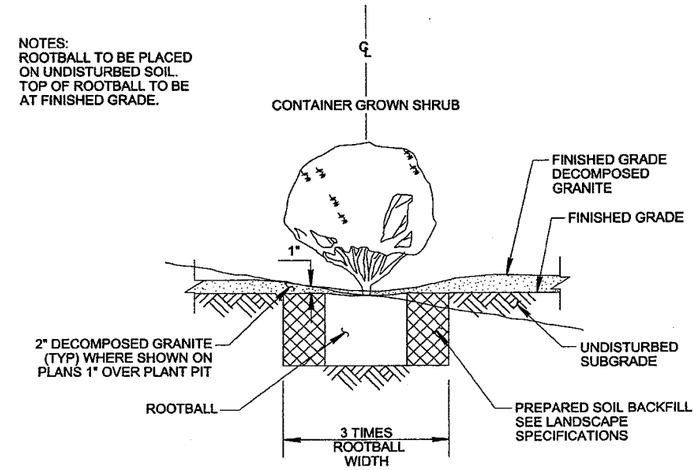
DESIGNED BY: OAO
DRAWN BY: JCC
SCALE:
HORIZONTAL=
VERTICAL=
SHEET 92 OF 104
SHEET L5 OF L10
DATE 09/09
W.O.

NOTES:
STAKING SHALL BE CONSTRUCTED SO TRUNK HAS FLEXIBILITY.
ROOTBALL TO BE PLACED ON UNDISTURBED SOIL.
TOP OF ROOTBALL TO BE AT FINISHED GRADE.
STAKE TREE PER DETAIL BELOW.

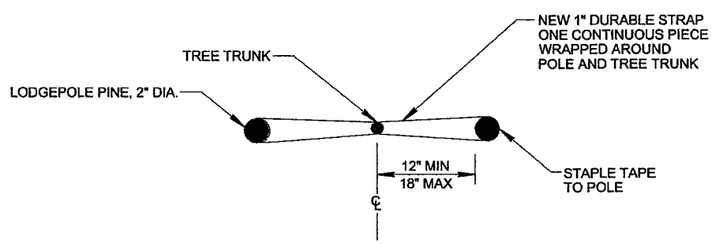


1 SINGLE TRUNK TREE PLANTING DETAIL
NTS

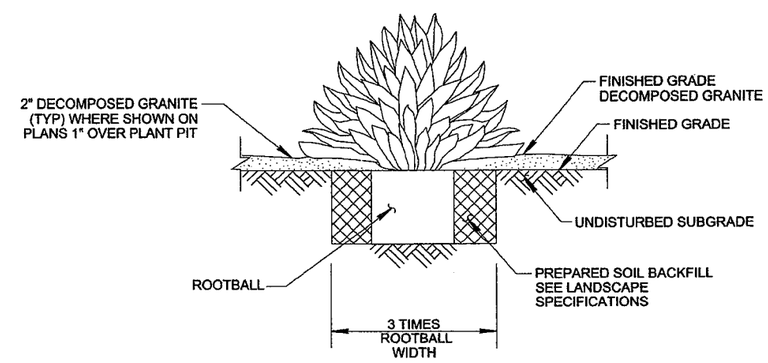
NOTES:
ROOTBALL TO BE PLACED ON UNDISTURBED SOIL.
TOP OF ROOTBALL TO BE AT FINISHED GRADE.



3 SHRUB PLANTING DETAIL
NTS



2 SINGLE TRUNK TREE STAKING DETAIL
NTS



4 AGAVE / ACCENT PLANTING DETAIL
NTS

REDUCED SIZE
DO NOT SCALE

NOTE:
THESE DETAILS APPLY TO ALL NEW SHRUBS, GROUNDCOVERS AND DESERT GRANITE.

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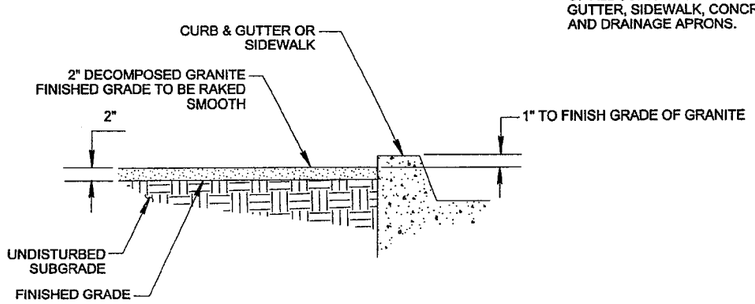
91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS
LANDSCAPE DETAILS

REGISTERED LANDSCAPE ARCHITECT 26447 EDWARD C. CORRAL U.S.A.
EXPIRES: 12/31/2009

DESIGNED BY: OAO	
DRAWN BY: JCC	
SCALE: HORIZONTAL= VERTICAL=	
SHEET 93 OF 104	
SHEET L6 OF L10	
DATE	09/09
W.O.	

NOTES.
FINISHED GRADE OF DECOMPOSED GRANITE SHALL BE 1" BELOW TOP OF ALL SURFACES INCLUDING; CURB & GUTTER, SIDEWALK, CONCRETE PADS AND DRAINAGE APRONS.



5 DECOMPOSED GRANITE PLACEMENT DETAIL
NTS

REDUCED SIZE
DO NOT SCALE

NOTE:
THESE DETAILS APPLY TO ALL NEW SHRUBS, GROUNDCOVERS AND DESERT GRANITE.

CALL TWO WORKING DAYS BEFORE YOU DIG
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Phoenix, Arizona 85040
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F: (602) 223-9019

91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
LANDSCAPE DETAILS

REGISTERED LANDSCAPE ARCHITECT 23447 EDWARD C. CORRAL ARIZONA U.S.A.
EXPIRES: 12/31/2009

DESIGNED BY: OAO	
DRAWN BY: JCC	
SCALE: HORIZONTAL= VERTICAL=	
SHEET 94 OF 104	
SHEET L7 OF L10	
DATE	09/09
W.O.	

IRRIGATION NOTES

1. BIDDERS SHALL VERIFY INSTALLATION CONDITIONS PRIOR TO BID SUBMISSION.
2. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS, CODES AND REGULATIONS APPLICABLE TO THE IRRIGATION SYSTEM COVERED BY THESE PLANS.
3. THE CONTRACTOR SHALL PROVIDE IRRIGATION COVERAGE TO ALL PLANT MATERIAL
4. INSTALL MAINLINES 2" AND SMALLER WITH 18 INCHES OF COVER, LINES 3" AND LARGER SHALL HAVE 24" COVER.
5. INSTALL LATERAL LINES WITH 12 INCHES OF COVER.
6. INSTALL ALL SLEEVES WITH 36" COVER.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE 120 VOLT POWER CONNECTION TO THE CONTROLLER. INSTALLATION SHALL MEET ALL CODES.
8. 24 VOLT CONTROL WIRE CONNECTIONS ARE TO BE MADE WITH NORTHSTAR SURESPLICE WATERPROOF WIRE CONNECTORS.
9. ALL VALVE BOXES TO BE TAN IN COLOR.
10. TEMPORARLY CAP ALL, AND CUT BROKEN, OR DAMAGED LINES DURING CONSTRUCTION UNITL IRRIGATION LINES ARE REPAIRED OR READAPTED TO SUPPLY WATER TO THE NEW PLANT MATERIAL.
11. ALL EXISTING PLANT MATERIAL IN THE R.O.W. OR PRIVATELY OWNED AND REMAINING DURING CONSTRUCTION SHALL BE WATERED AND BE MAINTAINED IN A HEALTHY CONDITION.
12. THE EXISTING PRIVATE IRRIGATION SYSTEMS SHALL BE FULLY OPERATIONAL DURING CONSTRUCTION.

INSTALLATION GENERAL NOTES

1. READ THOROUGHLY AND BECOME FAMILIAR WITH THE SPECIFICATIONS AND INSTALLATION DETAILS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.
2. THE DRAWINGS ARE DIAGRAMMATIC.
3. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF IRRIGATION SLEEVING. SLEEVES ARE TO BE INSTALLED FOR BOTH PIPING AND ELECTRICAL WIRING AT EACH HARDSCAPE CROSSING. COORDINATE INSTALLATION OF SLEEVING WITH OTHER TRADES. ANY PIPE OR WIRE WHICH PASSES BENEATH EXISTING HARDSCAPE WHERE SLEEVING WAS NOT INSTALLED, REQUIRES HORIZONTAL BORING BY THE IRRIGATION CONTRACTOR. SLEEVE AND CONDUIT SIZES SHALL BE A MINIMUM OF TWICE THE AGGREGATE DIAMETER OF ALL PIPE AND WIRE CONTAINED WITHIN SLEEVE OR CONDUIT PIPE.
4. INSTALL ALL ELECTRICAL POWER TO THE IRRIGATION CONTROL SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE LOCAL ELECTRIC UTILITY CODES.
5. INSTALL #12-1 AWG UF/UL 600 VOLT DIRECT-BURY WIRE FOR ALL COMMON AND CONTROL WIRE. COLOR CODE WIRES AS DIRECTED BY CITY OF PEORIA REPRESENTATIVE.
6. THE CONDITIONS SHOWN ON THESE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY THE ACTUAL QUANTITIES AND SITE CONDITIONS PRIOR TO BIDDING THE WORK.
7. PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL CONTACT BLUE STAKE (602-263-1100) TO VERIFY LOCATIONS AND DEPTHS OF UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY HIS WORK, AND HE SHALL BE RESPONSIBLE FOR DAMAGES TO SUCH UTILITIES CAUSED AS A RESULT OF THE WORK.
8. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.
9. HE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE THE WORK COVERED BY THESE PLANS AND SPECIFICATIONS.
10. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL LAWS, CODES AND REGULATIONS APPLICABLE TO THE WORK COVERED BY THESE PLANS AND SPECIFICATIONS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, COORDINATION AND SEQUENCING DURING CONSTRUCTION UNLESS SPECIFICALLY ADDRESSED OTHERWISE IN THESE PLANS AND SPECIFICATIONS.
12. ALL MATERIALS UTILIZED ON THIS PROJECT ARE INTENDED TO BE NEW AND OF THE BEST GRADE AVAILABLE. NO USED, SALVAGED, RECLAIMED, OR SECONDS WILL BE ACCEPTED.
13. THE CONTRACTOR SHALL VERIFY AND ACCEPT ALL SITE CONDITIONS AND ROUGH GRADES PRIOR TO STARTING ANY WORK. ALL DRAINAGE FLOWS SHALL BE PROTECTED AND MAINTAINED THROUGHOUT CONSTRUCTION.
14. THESE DETAILS SHALL APPLY TO ALL NEW EQUIPMENT INSTALLATIONS ON THIS PROJECT.

IRRIGATION LEGEND

DESCRIPTION	MODEL NUMBER	MANUF.
BACKFLOW PREVENTER	825YA - SIZE PER WATER SOURCE LINE REDUCED PRESSURE WITH GUARD SHACK ENCLOSURE	FEBCO
MASTER VALVE	SIZE PER WATER SOURCE LINE VALVE	HUNTER
GATE VALVE	WITH BRASS OPERATING HANDLE AND KEY, SIZE PER MAIN LINE SIZE IN ROUND RAINBIRD BOX.	NIBCO
DRIP VALVE ASSEMBLY	1" HUNTER 700 SERIES VALVE WITH AGRICULTURAL PRODUCTS FILTER WITH 200 MESH SCREEN.	HUNTER
PRESSURE REGULATOR	3/4" AGRICULTURAL PRODUCTS. PRESET TO 30 PSI.	SEE DETAIL
FLUSH VALVE	NOT APPLICABLE	SEE DETAIL
MAINLINE	2" PVC SCH. 40. 18" MIN. COVER.	—
DRIP LINE (TREES)	3/4" PVC SCH. 40 LATERAL.	—
DRIP LINE (SHRUBS)	3/4" PVC SCH. 40 LATERAL.	—
DRIP EMITTER	MODEL NO. ML210 (FOR ALL SHRUBS OR PRIVATELY OWNED) ML220 (FOR ALL TREES)	BOWSMITH
CONTROL WIRE	UF DIRECT BURIAL SOLID COPPER, 12 GA. COMMON, 14 GA. PILOT.	—
	4" IRRIGATION SLEEVE PVC SCH. 40, SIZE PER PLAN, 24" MIN. COVER.	

NOTE:

IRRIGATION MAINLINE AND DRIP LINE LATERALS ARE NOT SHOWN ON THESE PLANS. THE EQUIPMENT SHOWN IS FOR THE REPAIR, AND ADAPTATION OF THE EXISTING IRRIGATION SYSTEM DISTURBED AND MODIFIED BY THE CONSTRUCTION OF THIS PROJECT. ALL PLANT MATERIAL, EXISTING OR NEW SHALL BE WATERED CONTINOULSY ON A REGULAR BASIS.

REDUCED SIZE
DO NOT SCALE

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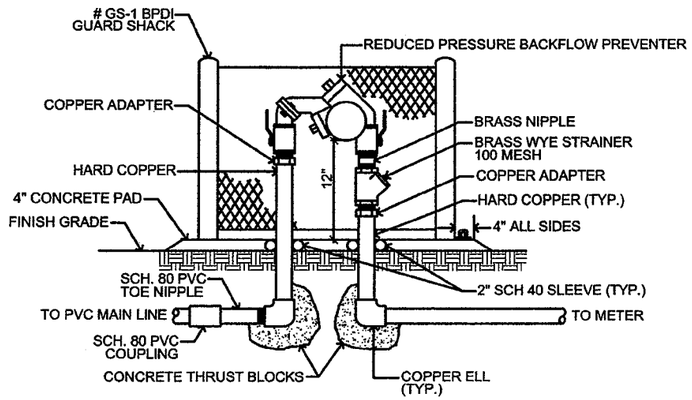
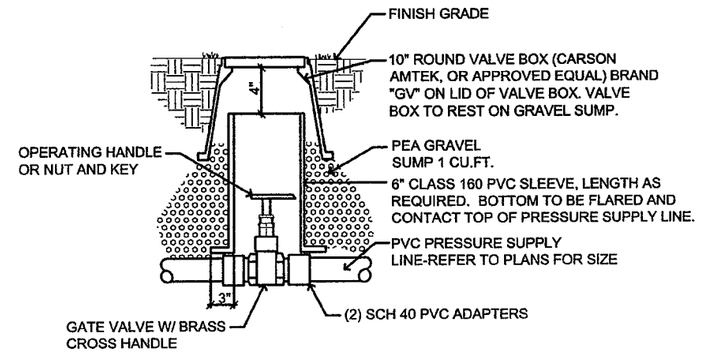
91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
IRRIGATION SUMMARY PLAN

LANDSCAPE ARCHITECT
28447
EDWARD C. CORRAL
ARIZONA, U.S.A.
EXPIRES: 12/31/2009

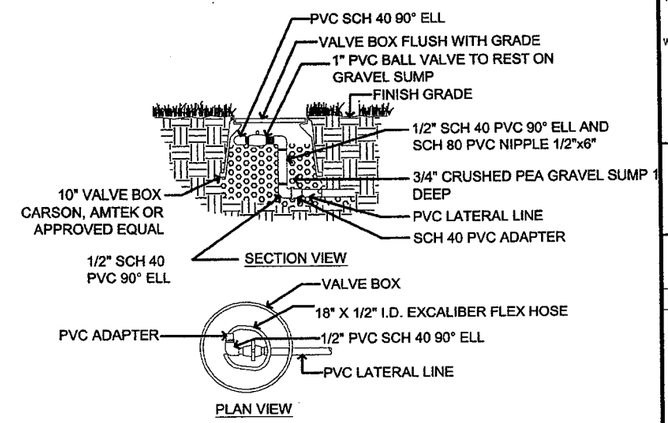
DESIGNED BY: OAO	
DRAWN BY: JCC	
SCALE: HORIZONTAL= VERTICAL=	
SHEET 95 OF 104	
SHEET LB OF L10	
DATE	09/09
W.O.	



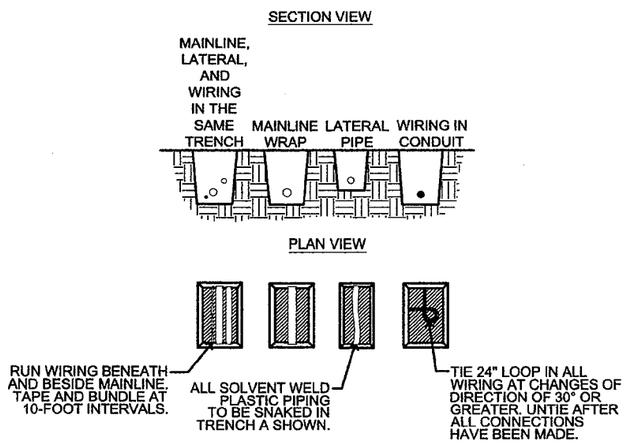
1 REDUCED PRESSURE BACKFLOW PREVENTER
NTS



2 BRASS GATE VALVE 2"
NTS



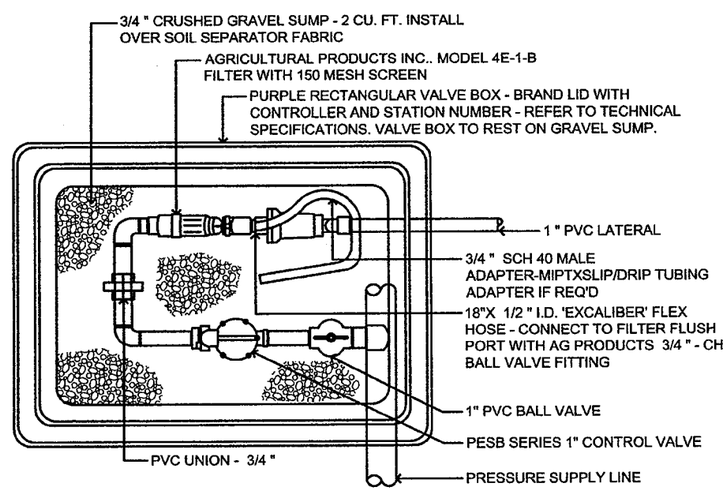
3 FLUSH VALVE
NTS



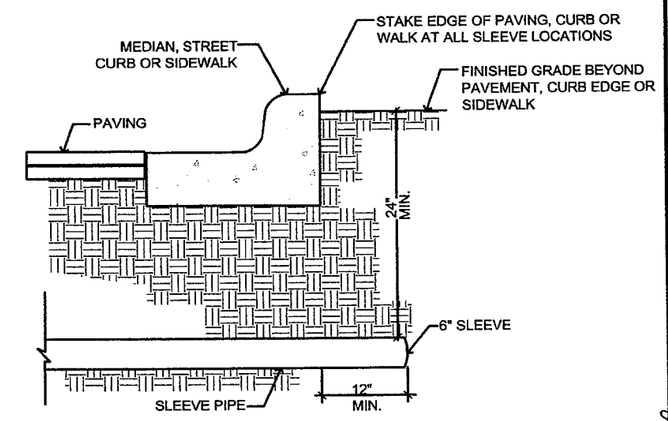
NOTES:
1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH CLASS 200 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.
2. FOR PIPE AND WIRE BURIAL DEPTHS SEE SPECIFICATIONS.

4 TRENCHING AND WIRE DETAIL
NTS

NOTE:
INSTALL ASSEMBLY TO REST ON GRAVEL SUMP. CONTAIN ENTIRE ASSEMBLY WITHIN BOX. VALVE BOX TO BE FLUSH WITH FINISH GRADE. LINE GRAVEL SUMP WITH ONE CONTINUOUS PIECE OF APPROVED GEOTEXTILE FILTER FABRIC. EXTEND FABRIC 10' UP ALL SIDES OF VALVE BOX EXTERIOR WALLS. PROVIDE 12" DIAMETER LOOP (MIN.) OF SPARE WIRES FROM CONTROLLER INSIDE EACH VALVE BOX.



5 DRIP VALVE ASSEMBLY
NTS



NOTES:
SEAL END OF SLEEVE PIPE WITH DUCT TAPE.

6 IRRIGATION PIPE SLEEVES
NTS

REDUCED SIZE DO NOT SCALE

NOTE:
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91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS
IRRIGATION DETAILS

REGISTERED LANDSCAPE ARCHITECT 28447 EDWARD C. CORRAL ARIZONA U.S.A.
EXPIRES: 12/31/2009

DESIGNED BY:	OAO
DRAWN BY:	JCC
SCALE:	HORIZONTAL= VERTICAL=
SHEET	96 OF 104
SHEET	L9 OF L10
DATE	09/09
W.O.	

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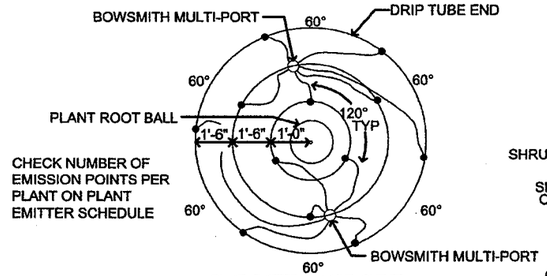
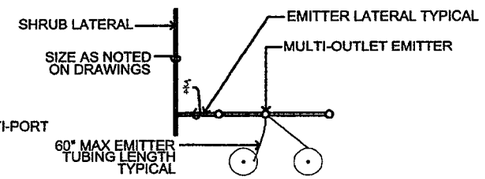
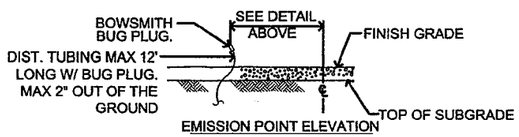


PLANT EMITTER – MULTI OUTLET
(SEE DETAIL BELOW)

NOTES:
1. TREES SHALL NOT BE PLANTED CLOSER THAN 3' OF IRRIGATION LINES (MAIN & LATERAL) OR EMITTERS.
2. SHRUBS SHALL NOT BE PLANTED CLOSER THAN 2' OF IRRIGATION LINES (MAIN & LATERAL) OR EMITTERS.



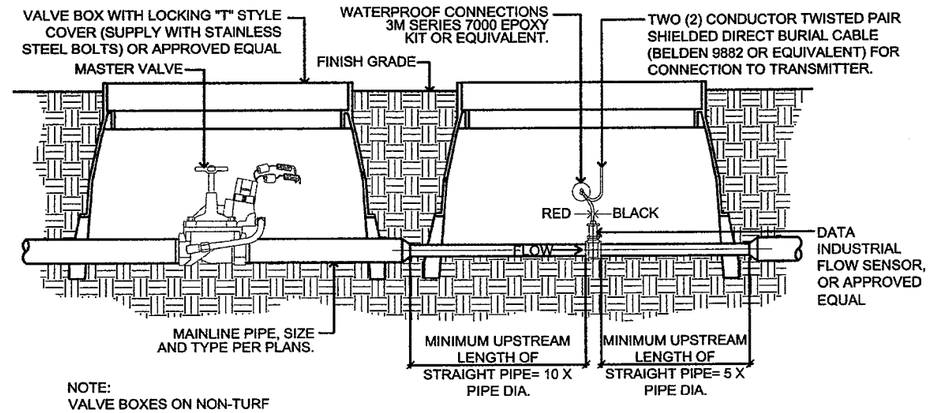
PLAN VIEW
SINGLE OUTLET EMITTER
SHRUBS AND GROUNDCOVER (TYPICAL)
SEE PLANT EMITTER SCHEDULE



PLAN VIEW
MULTI-OUTLET EMITTER
TREES (TYPICAL)
MODIFIED SRP DETAIL
SEE PLANT EMITTER SCHEDULE DETAIL

NOTES:
1. EMITTER TUBING EMISSION POINTS SHALL BE EQUALLY SPACED AND LOCATED TO DIRECT WATER FLOW TO THE PERIMETER OF THE DRIP LINE.
2. NUMBER OF OPENINGS AND EMITTER TUBES REQUIRED IS BASED ON PLANT TYPE. (SEE PLANT EMITTER SCHEDULE)
3. MAXIMUM EMITTER TUBING LENGTH=60"
4. LOCATE EMITTER UPHILL OF PLANT CENTER.
5. SECURE EMITTER TUBING TO FINISH GRADE WITH TUBING STAKE.

7 MULTI-OUTLET EMITTER
NTS



NOTE:
VALVE BOXES ON NON-TURF AREAS TO BE TAN IN COLOR.

8 MASTER VALVE AND FLOW SENSOR
NTS

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91ST AVENUE AND OLIVE AVENUE
INTERSECTION IMPROVEMENTS
IRRIGATION DETAILS

REGISTERED LANDSCAPE ARCHITECT
28447
EDWARD C. CORRAL
ARIZONA, U.S.A.
EXPIRES: 12/31/2009

DESIGNED BY: OAO	
DRAWN BY: JCC	
SCALE: HORIZONTAL= VERTICAL=	
SHEET 37 OF 104	
SHEET L10 OF L10	
DATE	09/09
W.O.	

PART 1 – TO BE COMPLETED BY THE LANDSCAPE ARCHITECT OR DESIGN ENGINEER

I. PROJECT DESCRIPTION

A. Owner name and address:

City of Peoria
8401 W Monroe Street
Peoria, Arizona 85345

B. Project TRACS Number: SS603101C

C. Project location: 91st Avenue and Olive Avenue

City: Peoria County: Maricopa

Beginning latitude: 33°33'57.71"
Ending latitude: 33°33'58.54"
Beginning longitude: –112°15'20.41"
Ending longitude: –112°15'10.44"

D. Project description: The intersection will be widened to include dual left turn lanes, two thru lanes in each direction, right turn lanes and bus bays. New traffic signals, storm drains, lighting and catch basins, SRP irrigation lines, and a retaining wall are included in the proposed improvements.

II. HYDROLOGIC INFORMATION

A. Project size:

Length (mi.) 0.55
Area (ac.) 7.51

B. Area to be graded (ac.): 3.59

C. Runoff coefficient:

Existing 0.93
Developed 0.95

D. Receiving water(s): Olive Avenue Storm Drain

III. PRESERVATION OF EXISTING VEGETATION

A. In accordance with the specifications, existing vegetation will be preserved. Clearing limits shall be confined to areas that require grading. Existing vegetation outside the boundaries of the cleared area shall be protected from damage by construction activities. Existing trees within the area to be cleared shall be preserved and protected, wherever possible.

IV. SOIL STABILIZATION MEASURES

A. All disturbed soil, which will not be paved, riprapped or otherwise covered to prevent erosion, will be revegetated and/or landscaped in accordance with the project plans and specifications.

B. Scheduling of the revegatation effort can be found on part 2 of this sheet under schedule of MAJOR ACTIVITIES.

V. MEASURES TO CONTROL EROSION AND SEDIMENT

A. Temporary erosion and sediment controls: (refer to the following swppp site plan and specifications)

___ Erosion control mattings
___ Temporary diversion dikes
___ Check dams
___ Rock inlet/outlet protection
___ Sediment Control Berms
X Silt fence
___ Wattles (excelsior/straw)
X Excelsior Logs / Sediment Logs
___ Seeding (Class II with mulch)
___ Others describe:

B. Permanent erosion and sediment controls: (refer to project plans swppp site plan and specifications)

___ Crown ditch/dike
___ Rock protection
___ Rock riprap channel lining
___ Sediment basin
___ Embankment curb
___ Spillways and downdrains
___ Minibenching
___ Seeding established as a perennial vegetative cover with a density of 70% of the native background vegetative cover.
___ Others describe:

VI. MAINTENANCE AND INSPECTIONS

A. Frequency of inspections:

At least once every 7 calendar days (~~weekly~~); or.

X Every 14 calendar days and within 24 hours after a ranfall of 0.5 inches (12.7 mm) or more.

NOTE: RAINFALL GAUGE TO BE KEPT ON-SITE TO DETERMINE DEPTH OF RAINFALL

B. Inspection procedure:

ADEQ's AZPEDS inspection checklist and AZPEDS Compliance Evaluation Report will be completed by the contractor, or his representative, and will be kept on file. If repairs are necessary, they shall be initiated within 24 hours of the inspection report.

VII. CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

A. This storm water pollution plan (SWPPP) has been prepared in accordance with ADOT's EROSION AND POLLUTION CONTROL MANUAL FOR HIGHWAY DESIGN AND CONSTRUCTION, published by ADOT, Highways Division. (February 2005)

No other Federal, State, or Local Regulations Apply

PART 2 – TO BE COMPLETED BY ADOT & CONTRACTOR

I. Schedule of major activities

A. Project schedule: ___

Start date: ___

End date: ___

B. Construction sequencing schedule: (attach additional sheets)

Date	Construction activity

II. Inventory of pollutants

A. The materials or substances checked below are expected to be onsite during construction:

___ Concrete ___ Asphalt
___ Paints ___ Fertilizer
___ Herbicides ___ Wood
___ Fuel ___ Oil
___ Others, list:

III. Pollution control measures

A. Other best management practices:

___ Solid waste management
___ Equipment maintenance procedures
___ Designated washout areas
___ Stabilized construction entrance
___ Protected chemical and material Storage area
___ Other, describe:

IV. Spill prevention and response

A. Spill prevention:
The procedures outlined in the best management practices listed under pollution control measures will be followed to prevent and contain spills of hazardous material. These preventative action include bmp's on equipment maintenance and proper handling, storage and disposal of chemicals and materials. All manufacturer's recommendations for usage, clean-up and disposal shall be followed.

B. Spill response:

In the event of any accidental Spill of chemicals or Hazardous materials, contact the ADOT Hazardous Materials Specialist at ADOT's Safety and Health Section (Ph. 602-712-7744 or Pager 520-320-8772). If a reportable quantity is discharged in the storm water, ADOT shall contact the National Response Center and document the spill to the EPA. ADOT's Hazardous Materials Specialist shall provide instructions.

V. POLLUTION PREVENTION PLAN CERTIFICATION

A. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application. I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

B. The operator/contractor as defined in AZPDES should sign the SWPPP in accordance with Part VII. K, and retain the SWPPP on-site at the construction site or other location easily accessible during normal business hours. (Note VI. B.)

Signature: ___
Date: ___
Name: ___
Title: ___

C. ADOT Resident Engineer

Signature: ___
Date: ___
Name: ___
Title: ___

D. MUNICIPALITY (For local Government Project)

Signature: ___
Date: ___
Name: ___
Title: ___

VI. Other requirements

A. A copy of the general permit and NOI are attached in accordance to AZPDES Gerneral Permit for Storm Water Discharges From Construction Activites To The Water Of The United States.

B. Projects that are within ¼ mile of impaired or unique waters require the SWPPP to be sent to ADEQ in combination with the NOI.

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ADOT TRACS NO. 000 MA PEO SS 60301C
CITY OF PEORIA PROJECT NO. P-0315

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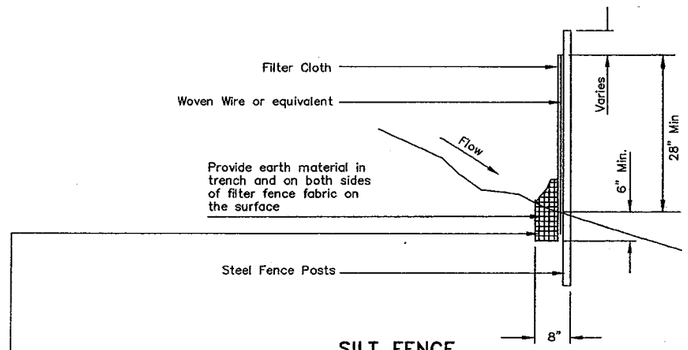
7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

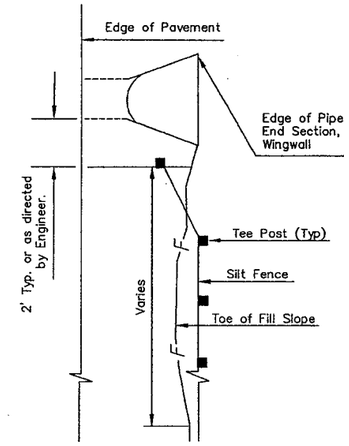
91ST AVENUE AND OLIVE AVENUE
STORM WATER POLLUTION PREVENTION PLAN

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 31673 RAJESH S. CHRISTIAN Date Signed 12-3-09 ARIZONA, U.S.A. Expires 09/30/2010

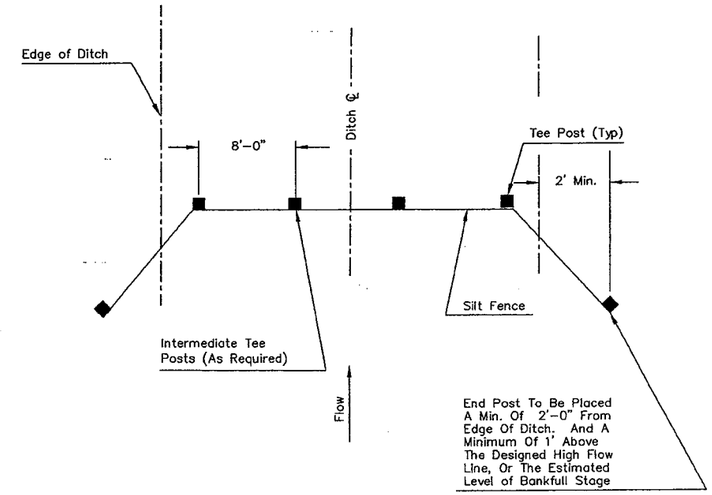
DESIGNED BY: LJA
DRAWN BY: LJA/TEM
SCALE:
HORIZONTAL=
VERTICAL=
SHEET SW-01
SHEET 98 OF 104
DATE 11/2009
W.O.



SILT FENCE
SECTION VIEW
(N. T. S., Typ.)

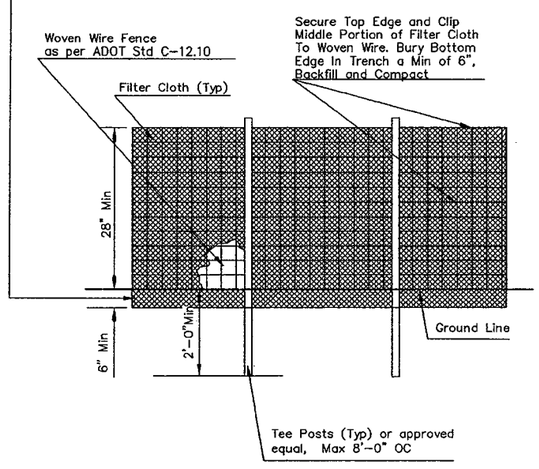


PLAN VIEW
PIPE INLET/OUTLET
SILT FENCE PLACEMENT



FILTER FABRIC SILT FENCE
DITCH CHECK FOR MINOR FLOW SITUATION
(N. T. S., Typ.)

Silt fence filter fabric in the installation trench shall be buried a minimum of twenty inches. The section of the trench shall be a minimum of 6" (deep) X 8" (wide). Filter fabric is to be buried along the side and bottom of the trench and back up to the upstream slope grade. Silt fence filter fabric section shall be a "J" form to prevent under cuts and carry stress from upstream sediment loading.



SILT FENCE
ELEVATION VIEW
(N. T. S., Typ.)

GENERAL NOTES:

1. Silt fences may be required as directed by the Engineer. Silt fences are for temporary erosion control in terms of sheet flow and minor concentrated flow areas only; they shall be selected, installed, and maintained with manufacturer's specifications and good engineering practices. Remove silt fences upon achieving the Final Stabilization Requirements.

2. Silt fences are to be installed at areas of construction disturbance as required; especially, the downslope perimeters of construction disturbed areas.

3. The contractor shall supply a rain gauge and monitor the amount of rainfall and document the precipitation results within 24 hours of their occurance and submit this information to the Engineer.

4. Once a silt fence has been installed it is the responsibility of the contractor to properly maintain this device.

5. The installation and maintenance of Silt Fence BMPs shall not negatively impact traffic safety, as well as the designed function of roadway or bridge drainage facilities. For erosion/sediment control purposes, Silt Fence BMPs shall be installed and maintained to carry the storm water of at least 2-year, 24-hour events.

6. The Silt Fence BMP's pay/bid item shall include all materials used for this BMP, all ground preparation, furnishing, installing, final removal, and disposal of this temporary BMP, as well as returning the area to an acceptable condition as approved by the Engineer.

7. Filter cloth shall be a woven polypropylene fabric and shall conform to the following specifications:

Apparent Opening Size – 20–50 US Std. Sieve
Mullen Burst – 200–275 p.s.i.
Trapezoidal Tear – 50–60 lbs.
Grab Elongation – 15–25%
Grab Tensile – 100 lbs. min.
UV Resistance – 70–90 %

8. Wire mesh fence fabric shall be standard woven wire fence fabric, as specified in Construction Standard C-12.10.

9. Posts shall be steel line posts as specified in Construction Standard C-12.10 with a minimum length of 6'-0".

10. Plastic filter cloth shall be attached to the top wire and midpoint of the fence fabric every 3'-0" and shall also be attached to the posts at the top, middle, and bottom with wire ties.

11. Unless otherwise specified, silt fences shall be installed on the same elevation or contour line.

12. Silt fence ditch check shall not be applied within the banks of living streams or natural washes. They shall not be applied within the flow path of box or pipe culvert inlets and outlets.

REDUCED SIZE
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ADOT TRACS NO.
000 MA PEO
SS 60301C
CITY OF PEORIA
PROJECT NO. P-0315

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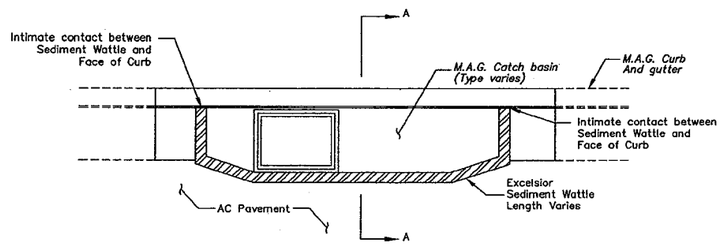
7878 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

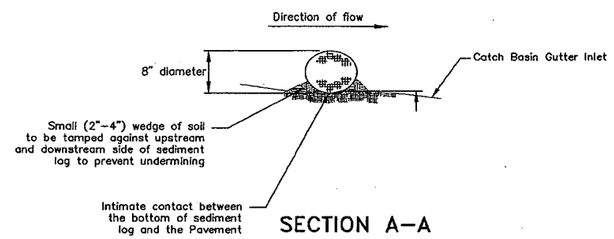
91ST AVENUE AND OLIVE AVENUE
STORM WATER POLLUTION
PREVENTION PLAN
DETAIL SHEET

Registered Professional Engineer (Civil)
31673
RAJESH S. CHRISTIAN
Date Signed 12-3-09
ARIZONA, U.S.A.
Expires 09/30/2010

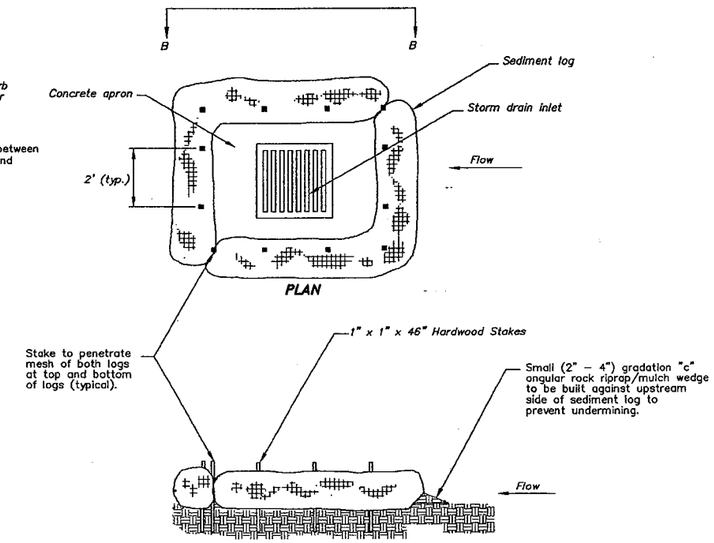
DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= VERTICAL=	
SHEET	SW-02
SHEET	99 OF 104
DATE	11/2009
W.O.	



SEDIMENT WATTLE EROSION CONTROL AT STORM DRAIN INLETS (NTS)



SECTION A-A (NTS)



DURING CONSTRUCTION

SEDIMENT LOG AT OFF-SITE STORM DRAIN- SEE PLANS (NTS)

NOTES:

1. Sediment Wattles and Sediment Control Logs shall be located as indicated in plans or asdirected by the engineer. They shall be selected, installed, and maintained with manufacturers' specifications and good engineering practices.
2. Lay sediment wattles across prepared AC Pavement around catch basin. Trenching or burial of sediment control logs is not required. The intimate contact between the bottom of the log and the ground is mandatory. The logs shall be installed in the swale or channel bottom perpendicular to the flow of water.
3. Ensure no gaps exist between the pavement and the sediment control logs. Repair any rills or undercuts promptly.
4. Remove sediment wattles and stakes once final stabilization requirements are met. Contractor to dispose of sediment logs and dispose of trapped sediment material.

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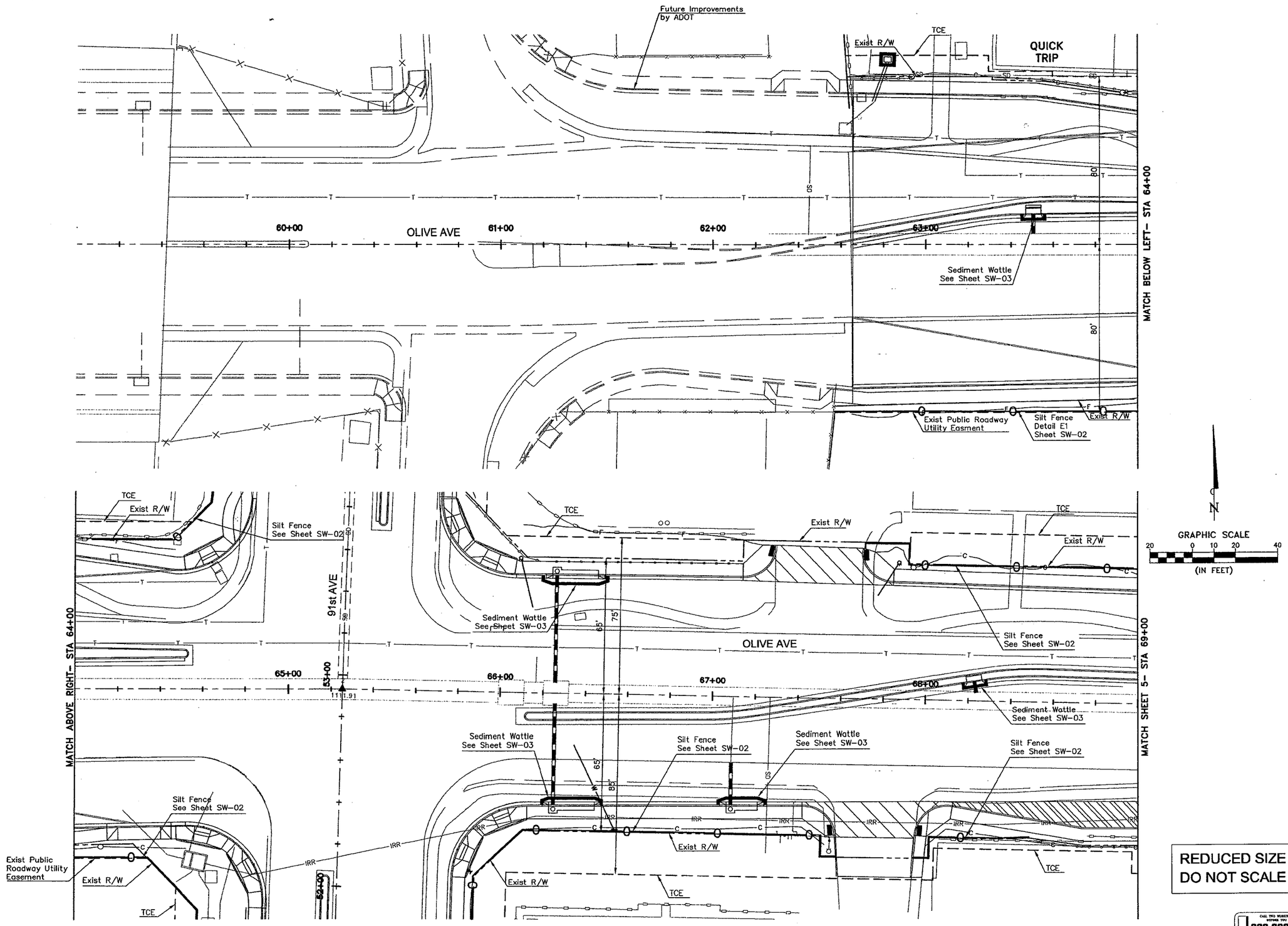
91ST AVENUE AND OLIVE AVENUE STORM WATER POLLUTION PREVENTION PLAN DETAIL SHEET

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 21673 RAJESH S. CHRISTIAN DATE SIGNED 12-3-09 ARIZONA, U.S.A. Expires 06/30/2010

DESIGNED BY: LJA	
DRAWN BY: LJA/TEM	
SCALE: HORIZONTAL= VERTICAL=	
SHEET	SW-03
SHEET	100 OF 104
DATE	11/2009
W.O.	



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91ST AVENUE AND OLIVE AVENUE INTERSECTION IMPROVEMENTS STORM WATER POLLUTION PREVENTION PLAN

Registered Professional Engineer (Civil)
51673
RAJESH S. CHRISTIAN
Date Signed 12-3-09
ARIZONA, U.S.A.
Expires 09/30/2012

DESIGNED BY: LJA
DRAWN BY: LJA/TEM
SCALE: HORIZONTAL= 20 VERTICAL=
SHEET SW-04
SHEET 101 OF 104
DATE 11/2009
W.O.

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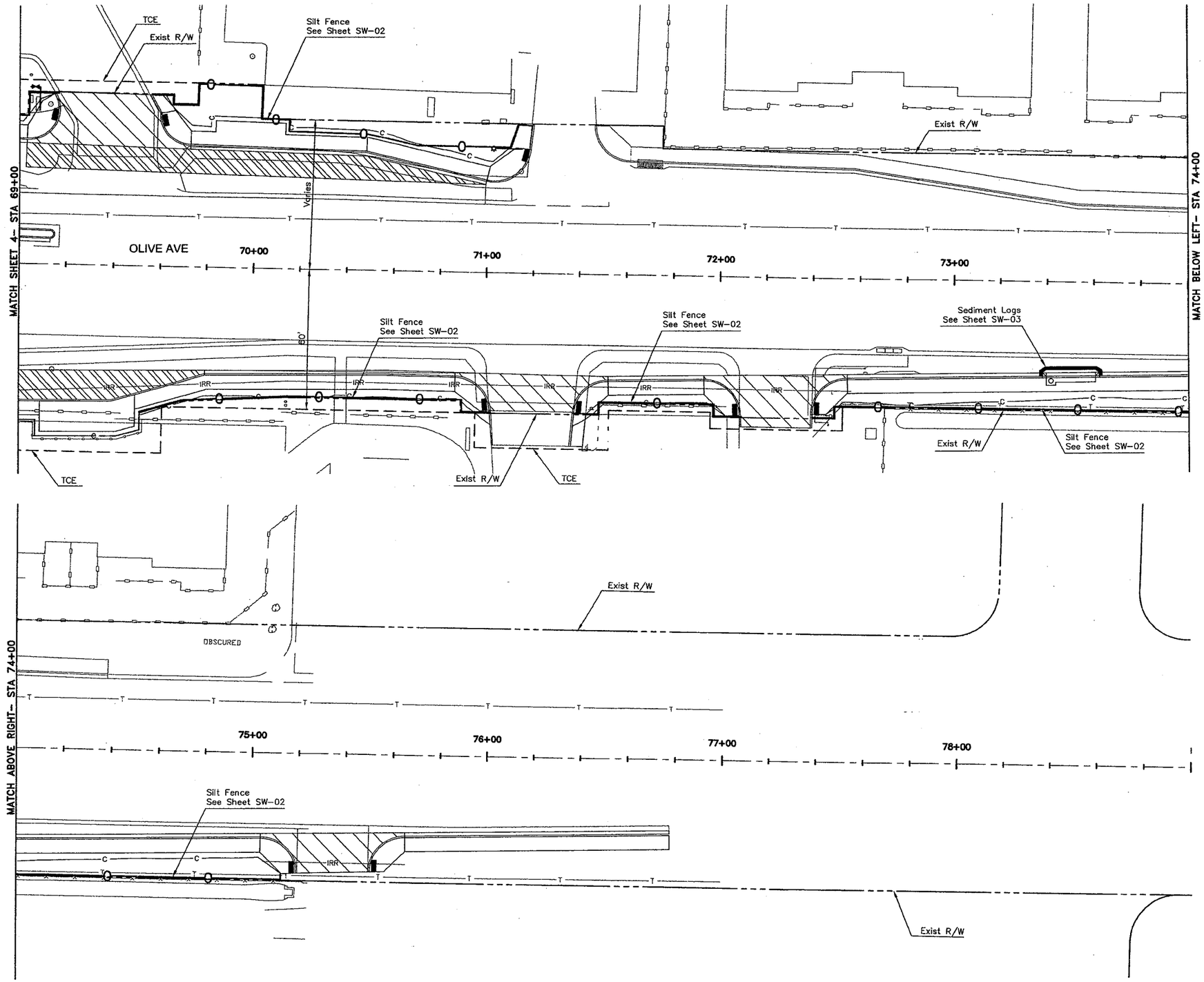

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REGISTERED PROFESSIONAL ENGINEER (CIVIL)
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RAJESH S. CHRISTIAN
Date Signed 12-3-09
ARIZONA, U.S.A.
Expires 09/30/2012

DESIGNED BY:	LJA
DRAWN BY:	LJA/TEM
SCALE: HORIZONTAL= 20 VERTICAL=	
SHEET	SW-05
SHEET	102 OF 104
DATE	11/2009
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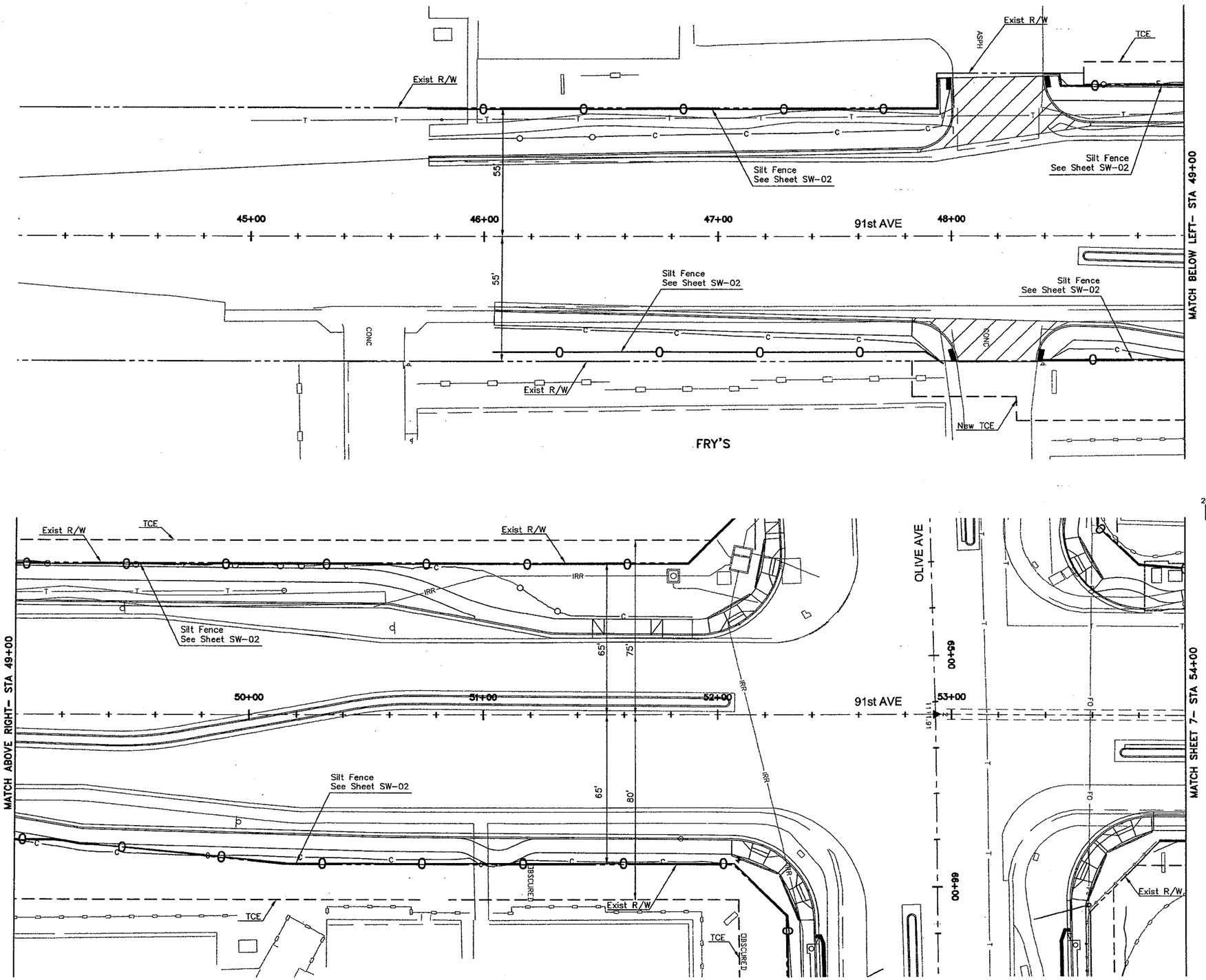

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SHEET	SW-06
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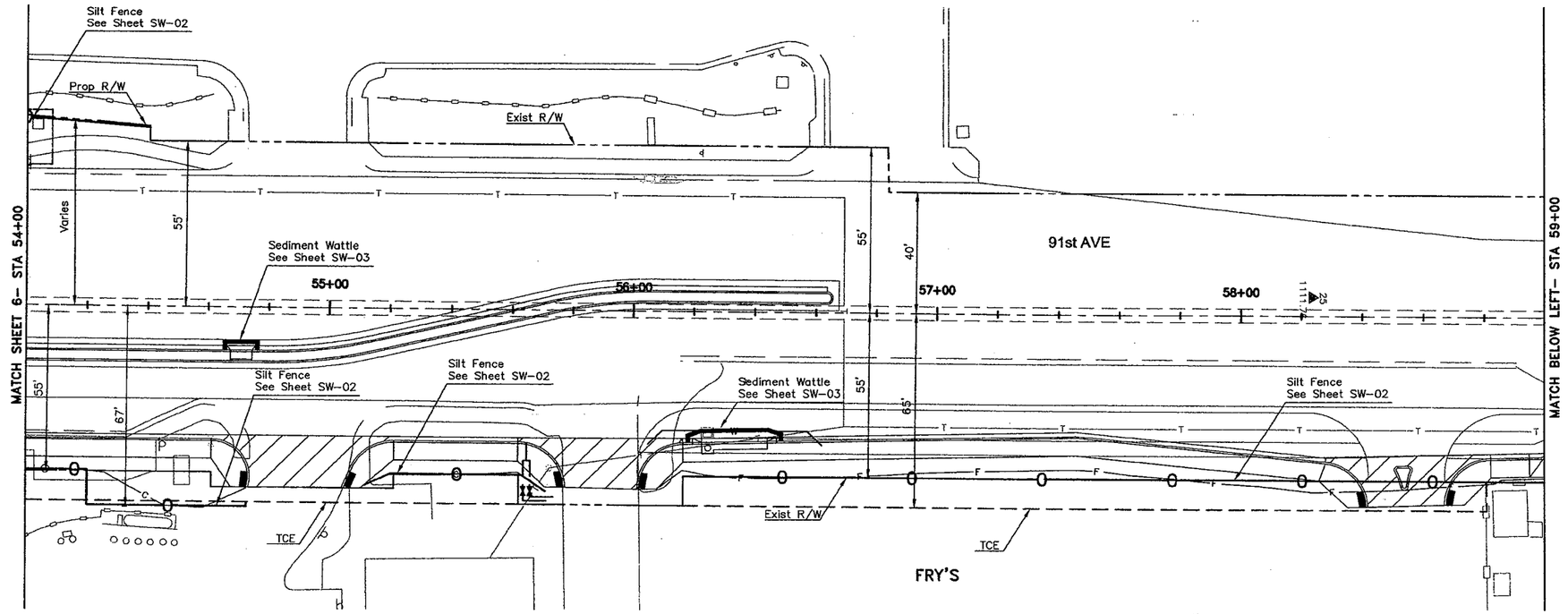

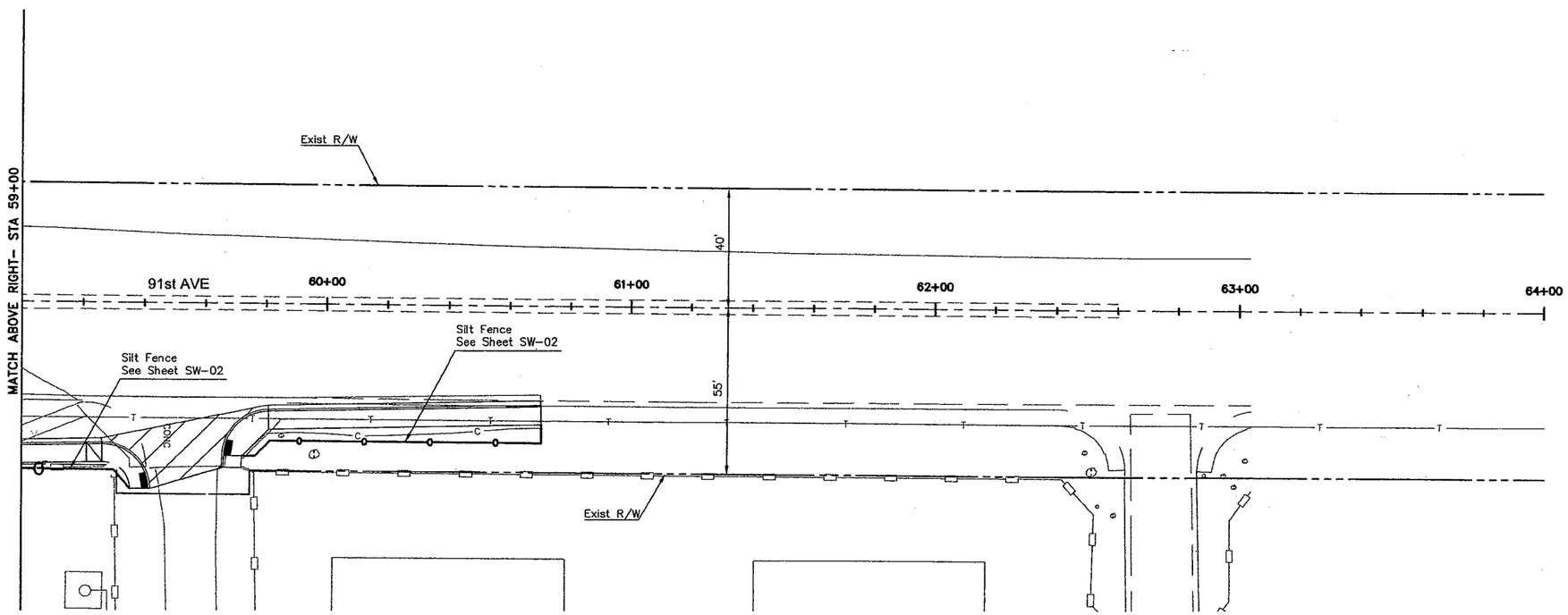

GRAPHIC SCALE
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STORM WATER POLLUTION
PREVENTION PLAN

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