

CLV TRAFFIC SIGNAL NOTES

SEE SHEET T-3 FOR CLV TRAFFIC SIGNAL NOTES

CLV SALVAGE NOTE

EXISTING TRAFFIC EQUIPMENT REMOVED AND NOT RELOCATED SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO THE CITY OF LAS VEGAS, 3104 EAST BONANZA ROAD.

ALL STREETLIGHT AND TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BE RETURNED TO THE CLV EAST SERVICE YARD. CALL 229-3661, 24 HOURS BEFORE DELIVERY. TO SET UP TIME. CONTRACTOR MUST HAVE A MEANS TO UNLOAD EQUIPMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE INCURRED IN THIS PROCESS.

NOTE:

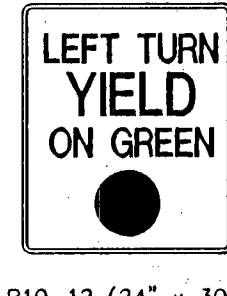
ALL CONSTRUCTION ITEMS ON THIS SHEET ARE INCIDENTAL TO THE TRAFFIC SIGNAL INSTALLATION UNLESS OTHERWISE NOTED.

LOOP DETECTION NOTES

- LOOP LEAD-IN CABLE SHALL BE PER SPECIAL PROVISIONS 623.T.02.04
- ALL LOOPS SHALL BE PRE-FORMED PER SPECIAL PROVISION 623.T.02.04
- ONE (1) MULTI-CONDUCTOR LOOP LEAD IN CABLE PER DETECTED APPROACH (3 TOTAL FOR PHASES 2 AND 7) TO TRAFFIC SIGNAL CONTROLLER CABINET
- LOOPS SHALL BE CENTERED IN TRAVEL LANES.

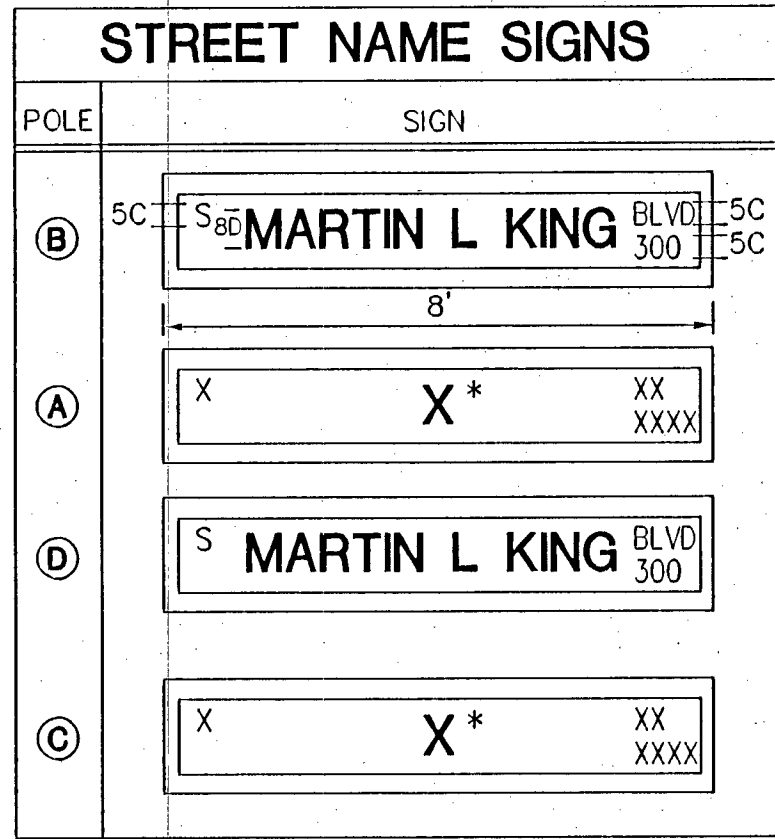
CONSTRUCTION NOTES

- INSTALL TYPE VIII CABINET, COMMONLY REFERRED TO AS A TYPE "R" CABINET ON TYPE "J" FOUNDATION. THE CABINET SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS, CLARK COUNTY AREA, NEVADA. INSTALL CABINET NEAR THE R/W LINE OR AS SHOWN ON THE DRAWING.
- THE CONTRACTOR SHALL SUPPLY A 2070N WITH 1B MODULE OR A M53 CONTROLLER TO THE CITY OF LAS VEGAS TRAFFIC SIGNAL REPAIR SHOP, FOURTEEN DAYS PRIOR TO SIGNAL TURN-ON FOR TESTING PURPOSES. THE CONTRACTOR SHALL DELIVER THE CONTROLLER TO, AND PICK UP CONTROLLER AT 2801 EAST CHARLESTON BOULEVARD. CONTRACTOR SHALL NOTIFY THE TRAFFIC SIGNAL REPAIR SHOP (229-6075) SEVEN DAYS PRIOR TO PICKUP. ALL 2070N CONTROLLERS MUST BE COMPATIBLE WITH AND FUNCTION PROPERLY WITH OS9 1996 OPERATION SYSTEM: THE LATEST REVISION OF THE "NEXT PHASE INTERSECTION MANAGEMENT SOFTWARE" (GARDNER TRANSPORTATION SYSTEM) AND THE ICONS (GARDNER TRANSPORTATION SYSTEM) GENERAL SOFTWARE.
- INSTALL R3-4 (24" X 24") ON MAST ARM
- INSTALL NEW NO 7 PULLBOX PER CCUSD DWG NO 404.130
- INSTALL NEW NO 5 PULLBOX PER CCUSD DWG NO 404.120
- INSTALL (R10-12) "LEFT TURN YIELD ON GREEN BALL (24" X 30") ON MAST ARM AS SHOWN
- CONTRACTOR TO INSTALL NEW 200 AMP PADMOUNT SERVICE. SERVICE SHALL HAVE 1-60 AMP SINGLE POLE BREAKER FOR SIGNAL, AND ONE 40 AMP SINGLE POLE BREAKER FOR STREETLIGHT.
- INSTALL R10-5 (24" X 30") ON MAST ARM
- MODEL 722 (TWO-WAY) OPTICOM DETECTORS SHALL BE MOUNTED ON TOP OF THE LEFT-MOST SIGNAL HEAD ON THE MAST ARMS OF POLES "A" AND "B". THE CONTROLLER SHALL BE EQUIPPED FOR OPTICOM PRE-EMPTION USING A MODEL 754 PHASE SELECTOR. MODEL 138 OPTICOM DETECTOR CABLE SHALL BE RUN FROM THE CONTROLLER TO THE OPTICOM DETECTOR AS SHOWN IN THE CONDUIT AND WIRE SCHEDULE.
- MOUNT VIDEO DETECTION CAMERA ON A 4' TO 6' RISER ON THE SIGNAL MAST ARM. SEE NOTE 19, SHEET TS-3.
- INSTALL 400W/120V LUMINAIRE IN COMPLIANCE WITH CITY OF LAS VEGAS TRAFFIC SIGNAL NOTE 6
- INSTALL NEW "NO PEDESTRIAN CROSSING" SIGN (R9-3A, 18" X 18") ON NEW TRAFFIC SIGNAL POLES (B) (QUADRANT 2) AND (C) (QUADRANT 4)
- INSTALL TYPE 200 PULLBOX PER CCUSD DWG NO 404.133 LABELED "FIBER OPTIC"
- SEE CIVIL PLANS FOR FIBER CONDUIT LOCATION.
- INSTALL 72 STRAND FIBER OPTIC CABLE FROM NEW TYPE 200 PULLBOX ON SW CORNER OF MARTIN LUTHER KING BLVD. AND DISCOVERY DRIVE. CONDUIT LENGTH IS 1,229 FEET, CONTRACTOR TO VERIFY REQUIRED FIBER LENGTH PRIOR TO START OF CONSTRUCTION.
- INSTALL 72 STRAND FIBER OPTIC CABLE FROM NEW TYPE 200 PULLBOX ON SW CORNER OF MARTIN LUTHER KING BLVD. AND ALTA DRIVE THROUGH NEW P-30 PULLBOX ON NW CORNER PORK CHOP AT MARTIN LUTHER KING BLVD. AND ALTA DRIVE. CONDUIT LENGTH IS 940 FEET, CONTRACTOR TO VERIFY REQUIRED FIBER LENGTH PRIOR TO START OF CONSTRUCTION.
- INSTALL WHITE CAT TRACTS PER CLV STD. DETAIL "C" SEE SHEET TS-3.
- INSTALL RNV1-3(MOD) (30" X 36") ON MAST ARM



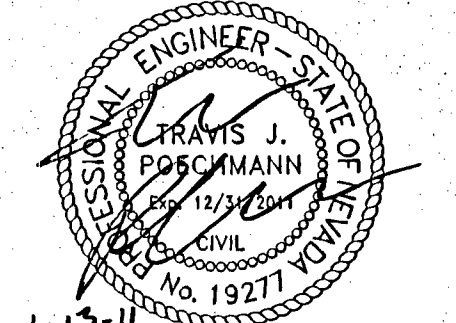
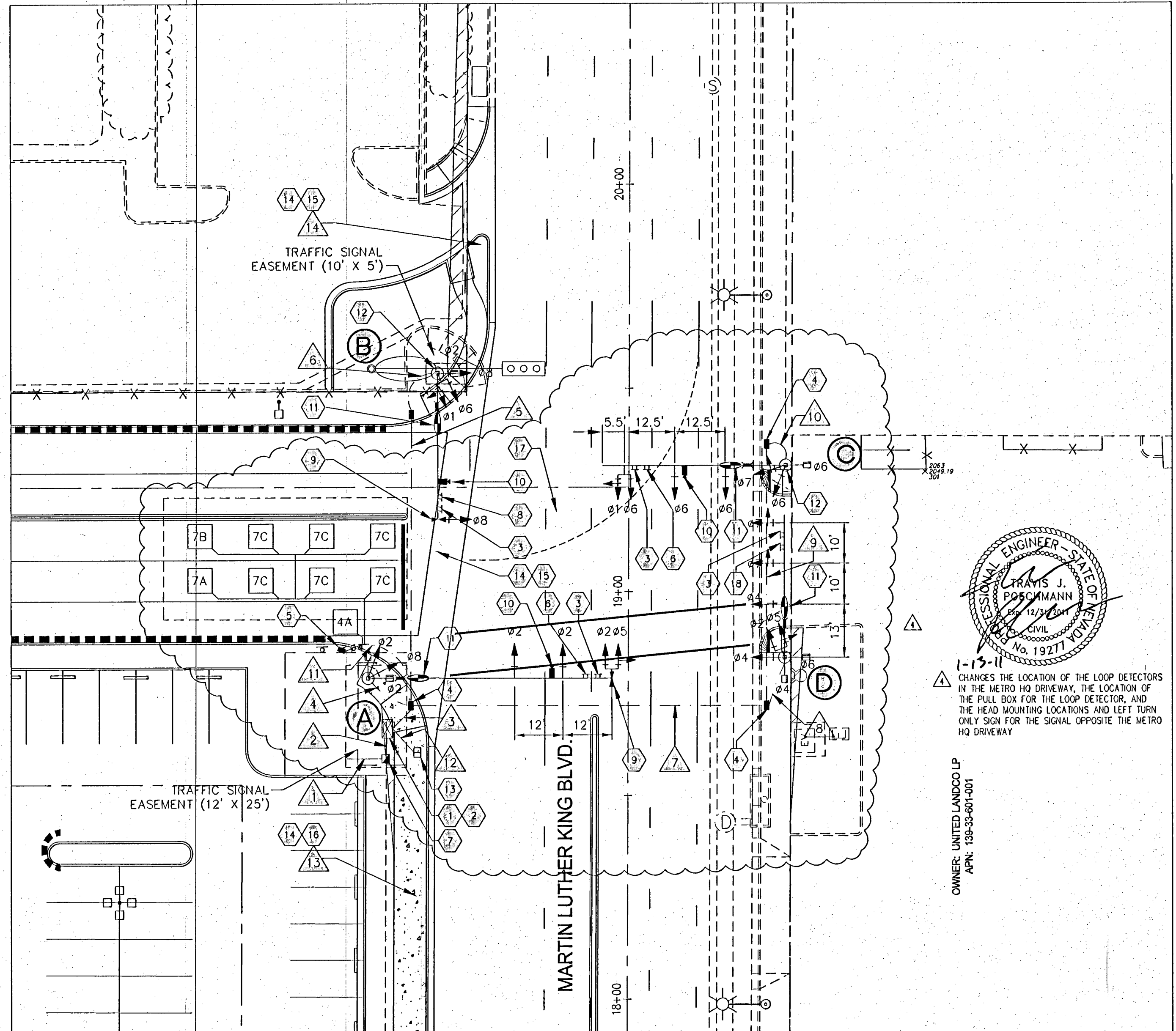
CONDUIT AND WIRE SCHEDULE

WIRE & CABLE	FROM	TO	CONDUIT													
NEVADA POWER SERVICE (3) #3/0 AWG THW	POWER SUPPLY	SERVICE PEDESTAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14
(2) #4 (1 BLACK, 1 WHITE) FOR CONTROLLER (2) #4 (1 BLACK, 1 WHITE) FOR LUMINAIRES (1) #8 AWG THW GROUND	SERVICE PEDESTAL	CONTROLLER														
25C #14 SIGNAL CABLE, (1) #8 AWG THW GROUND, (2) #10 AWG THW, (2) 8281 COAX	CONTROLLER	POLE A														
25C #14 SIGNAL CABLE, (1) #8 AWG THW GROUND, (2) #10 AWG THW, 8281 COAX	CONTROLLER	POLE B														
25C #14 SIGNAL CABLE, (1) #8 AWG THW GROUND, (2) #10 AWG THW, 8281 COAX	CONTROLLER	POLE C														
25C #14 SIGNAL CABLE, (1) #8 AWG THW GROUND, (2) #10 AWG THW	CONTROLLER	POLE D														
6 PR 18 AWG MULTI-CONDUCTOR LOOP LEAD-IN CABLE	CONTROLLER	LOOP P/B #4 & 7														
EMERGENCY VEHICLE PRE-EMPT CABLE	CONTROLLER	POLE A														
EMERGENCY VEHICLE PRE-EMPT CABLE	CONTROLLER	POLE B														
FUTURE CDCA CABLE (INSTALLED BY OTHERS)	CONTROLLER	TYPE 200 SPLICE VAULT														
72 STRAND FIBER OPTIC CABLE	TYPE 200 SPLICE VAULT	TYPE 200 SPLICE VAULT (DISCOVERY)														
72 STRAND FIBER OPTIC CABLE	TYPE 200 SPLICE VAULT	TYPE 100 SPLICE VAULT (ALTA)														
CONDUIT NUMBER & SIZE (IC) = INTERCONNECT			1	2	3	4	5	6	7	8	9	10	11	12	13	14



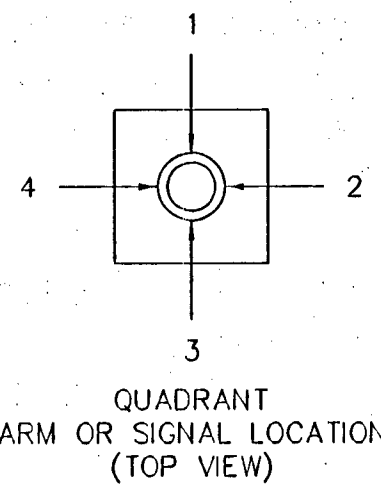
NOTE: CONTRACTOR SHALL OBTAIN APPROVED BLOCK NUMBERS FROM CLV PLANNING PRIOR TO FABRICATION OF SIGNS. CALL JONATHAN BOYLES (702) 229-6031

* NAME TO BE DETERMINED

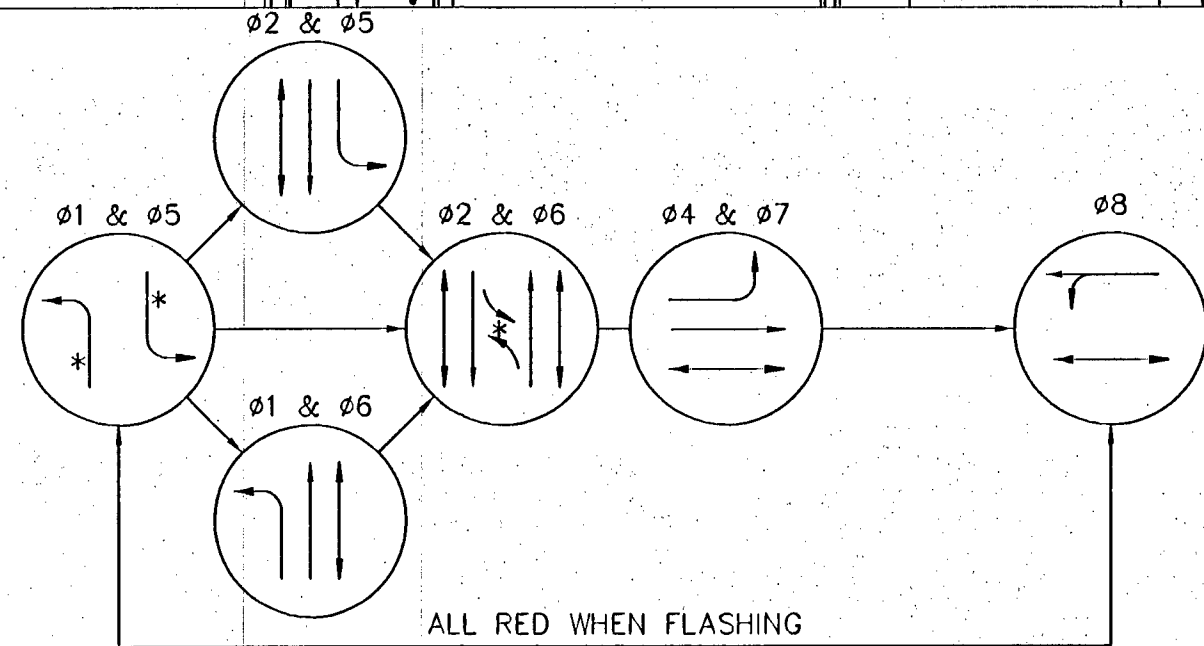


1-15-11
CHANGES THE LOCATION OF THE LOOP DETECTORS IN THE METRO HQ DRIVEWAY. THE LOCATION OF THE PULL BOX FOR THE LOOP DETECTOR, AND THE HEAD MOUNTING LOCATIONS AND LEFT TURN ONLY SIGN FOR THE SIGNAL OPPOSITE THE METRO HQ DRIVEWAY

OWNER: UNITED LANDCO LP
APR: 199-33-001-001



QUADRANT
ARM OR SIGNAL LOCATION
(TOP VIEW)



PHASE DIAGRAM

FLASHING OPERATION SHALL BE ALL RED

OPTICOM PREEMPTION PHASES 2, 4, 6 & 8

* LEFT TURN PHASES 1 & 5 ARE TIME OF DAY PROTECTED/PERMISSIVE

POLE AND EQUIPMENT SCHEDULE

P O L E	LOCATION *	POLE		SIGNALS (VEHICLE)		SIGNALS (PEDESTRIAN)		PEDESTRIAN PUSH BUTTONS		REMARKS
		TYPE	FOUND TYPE	QUAD	LNG	QUAD	LNG	QUAD	ARROW	
A	STA 18+78.46 OFF 64.05' LT	XX-A		2	60'	2	15'	M-2 (2) M-5	MAST ARM MAST ARM	
		TYPE "L"						B-14T	1	
B	STA 19+53.40 OFF 47.19' LT	XX		3	35'	3	15'	M-2	MAST ARM	
		TYPE "H"						B-2T	2	
C	STA 19+31.20 OFF 38.49' RT	XX		4	45'	4	15'	M-2 (2) M-5	MAST ARM MAST ARM	
		TYPE "H"						B-14T	3	
D	STA 18+83.95 OFF 38.42' RT	XX		1	35'	1	15'	M-2 (2) M-5	MAST ARM MAST ARM	
		TYPE "H"						B-2T	2	

* EXACT POLE LOCATION SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION AND SHALL BE APPROVED BY THE ENGINEER

* NO ARROWS

OR&A

Orth-Rodgers and Associates, Inc.
TRANSPORTATION ENGINEERS and PLANNERS
3130 South Durango Drive, Suite 404
Las Vegas, NV 89117 (702) 233-4060

SLATER
HANIFAN
GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5300

NO.	DESCRIPTION	DATE	BY	APP.
1	ISSUANCE	12/17/10	BDP	

PROJECT ALTA, LLC
METRO HEADQUARTERS
MLK AND NORTHERN DRIVEWAY TRAFFIC SIGNAL PLAN

DATE: 06/12/09

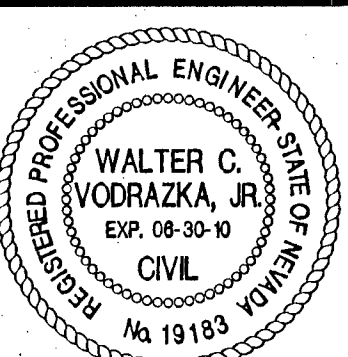
DRAFTER: KA

DESIGNER: WV

CHECKED: RR

PROJECT NO.

FYP0802-000



TS-1

SHEET 31 OF 33

640-V56

SAFETY ALERT
Call Before You Overhead

1-702-227-2929

Call before you Dig
Avoid hitting underground utilities

1-800-227-2600

1-702-432-5300

F.A.S.T.

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1-800-227-2600

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F.A.S.T.