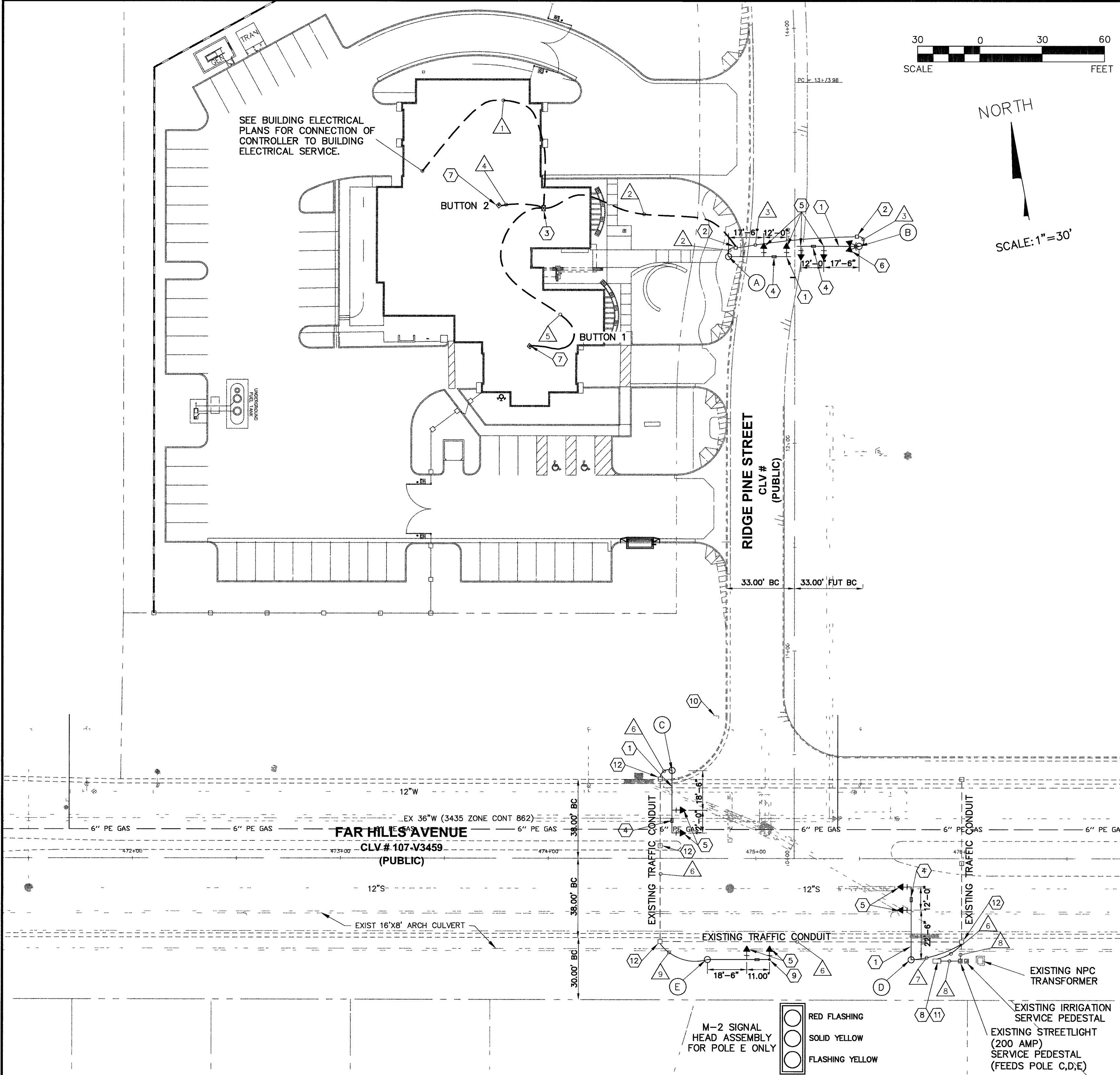




- ### CITY OF LAS VEGAS TRAFFIC SIGNAL NOTES
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL EXISTING UTILITIES. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES TO VERIFY IN THE FIELD THE LOCATIONS OF THEIR INSTALLATIONS 72 HOURS PRIOR TO CONSTRUCTION.
CALL-BEFORE-YOU-OVERHEAD 1-702-227-2929
CALL-BEFORE-YOU-DIG 1-800-227-2600
CITY OF LAS VEGAS TRAFFIC ENGINEERING & FIELD OPERATIONS 229-6531
NEVADA POWER 367-5307
 - ALL CABLE AND WIRING SHALL BE INSTALLED FROM TERMINAL TO TERMINAL WITHOUT SPLICES.
 - TRAFFIC SIGNAL CABLE SHALL BE #14 AWG CABLE AND SHALL CONFORM TO IMSA SPEC. NO. 20-1.
 - PULL BOXES MAY BE OF COMPOSITE MATERIAL NO GROUNDING REQUIRED.
 - THE ROUTING AND TERMINATION OF CONDUITS AND THE PLACING OF POLES AND CABINETS SHALL BE AS INDICATED ON THE PLANS. ALL CHANGES SHALL BE APPROVED BY THE TRAFFIC ENGINEER.
 - ALL SIGNAL POLES SHALL CONFORM TO UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA NO. 404.40 SHEETS 1 THROUGH 6.
 - THE FINAL LOCATION OF POLES SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION BY THE TRAFFIC ENGINEER.
 - EACH NEW MAST ARM SHALL BE SET PERPENDICULAR TO THE INTERSECTION APPROACH THAT FACES THE TRAFFIC SIGNALS ON THE MAST ARM.
 - ALL TRAFFIC SIGNAL HEADS SHALL HAVE 12" DIAMETER LENSES, AND LOUVERED BACKPLATES. ALL SIGNALS SHALL BE LED'S PER CITY OF LAS VEGAS LATEST STANDARDS.
 - THE SIGNAL HEAD TENON PLACEMENT SHALL BE VERIFIED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER PRIOR TO MANUFACTURE OF THE MAST ARMS.
 - CONTRACTOR TO OBTAIN AND INSTALL FIRE STATION SIGNAL CONTROL CABINET PROVIDED FROM CITY OF LAS VEGAS TRAFFIC SIGNAL SHOP. CITY OF LAS VEGAS TRAFFIC SIGNAL SHOP TO DETERMINE FINAL LOCATION OF CONTROL CABINET. CITY OF LAS VEGAS WILL MAKE FINAL TERMINATIONS OF CONDUCTORS WITHIN CONTROL CABINET. CONTACT TIM ARMBRUSTER AT THE CITY OF LAS VEGAS TRAFFIC SIGNAL SHOP, 229-6075 PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - ALL WORK TO BE COMPLETED IN ACCORDANCE WITH UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA (USDCCA) LATEST EDITION.
 - 3M MODEL 721 (SINGLE HEAD) OPTICOM DETECTOR SHALL BE MOUNTED ON THE TOP OF OUTER-MOST M-2 SIGNAL HEAD ON THE MAST ARM OF POLE E. THE CONTROLLER SHALL BE EQUIPPED FOR OPTICOM PRE-EMPTION USING A MODEL 752 PHASE SELECTOR (RED FOR THE MAST ARM). THE SYSTEM WILL REMAIN IN THE EMERGENCY PHASE (SOLID RED FOR CROSS TRAFFIC AND GREEN FOR THE FIRE DEPARTMENT STAFF) FOR A PREDETERMINED TIME BEFORE REVERTING BACK TO NORMAL OPERATION. THE DURATION OF THE EMERGENCY PHASE IS TO BE ADJUSTABLE, AND WILL BE SET BY THE CLV FIRE DEPARTMENT IN COOPERATION WITH THE CLV TRAFFIC ENGINEERING STAFF. WHEN WIRING SEQUENCE OF OPERATION, CONTRACTOR SHALL CONTACT TIM ARMBRUSTER AS NOTED IN SIGNAL NOTE #11 PRIOR TO COMMENCING WORK TO BE DONE BY CITY OF LAS VEGAS.

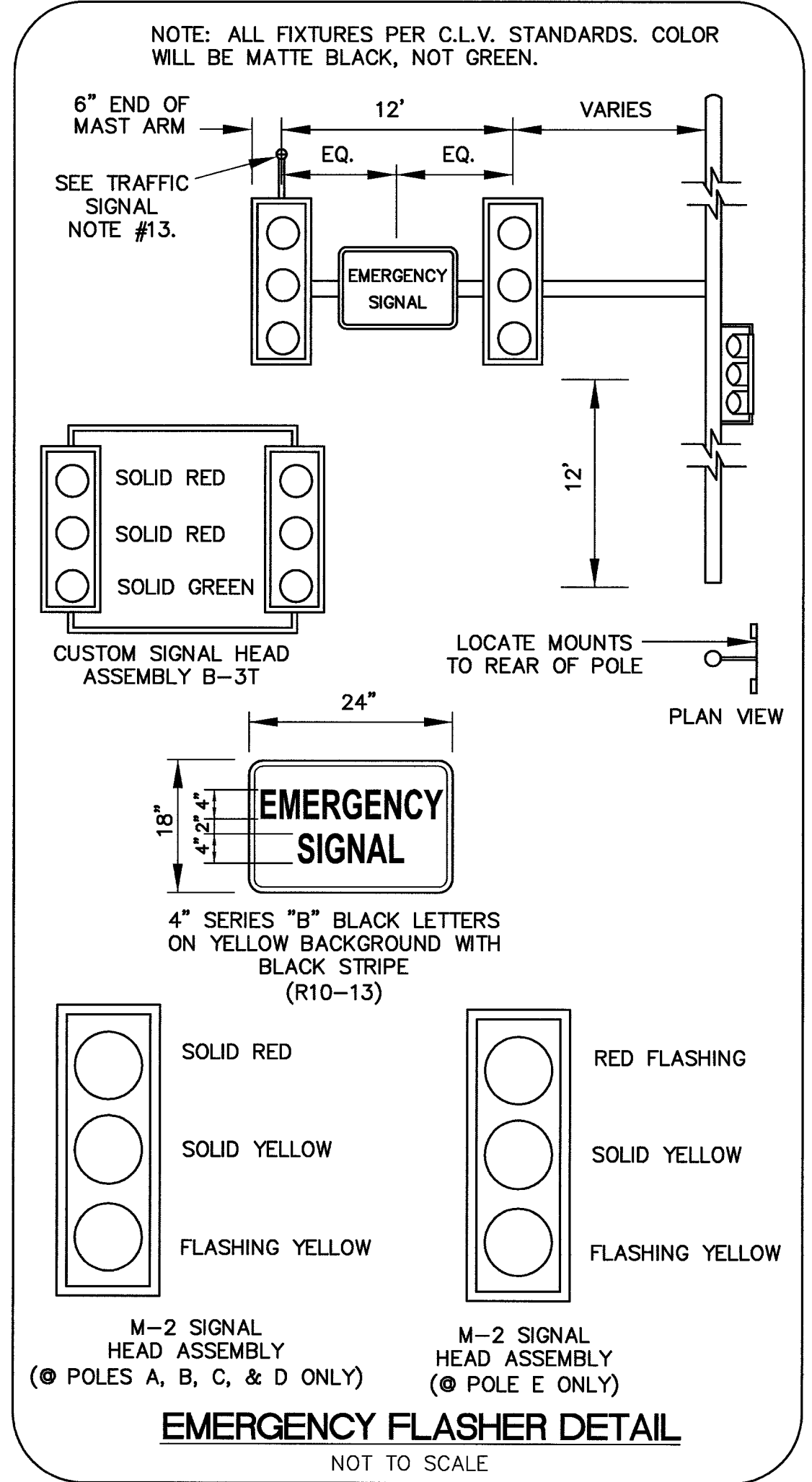
SEQUENCE OF OPERATION (AT POLE A & B ONLY)

WHEN THE SYSTEM IS UNDER NORMAL OPERATION, THE MAST ARM SIGNAL HEAD ASSEMBLIES WILL CONTINUALLY FLASH YELLOW, AND THE CUSTOM SIGNALS WILL CONTINUALLY FLASH RED. ACTIVATION FROM ANY OF THE CONTROL STATIONS WILL START A TIMED SEQUENCE THAT WILL CHANGE THE SYSTEM FROM FLASHING YELLOW TO SOLID YELLOW TO SOLID RED. THE SYSTEM WILL REMAIN IN THE EMERGENCY PHASE (SOLID RED FOR CROSS TRAFFIC AND GREEN FOR THE FIRE DEPARTMENT STAFF) FOR A PREDETERMINED TIME BEFORE REVERTING BACK TO NORMAL OPERATION. THE DURATION OF THE EMERGENCY PHASE IS TO BE ADJUSTABLE, AND WILL BE SET BY THE CLV FIRE DEPARTMENT IN COOPERATION WITH THE CLV TRAFFIC ENGINEERING STAFF. WHEN WIRING SEQUENCE OF OPERATION, CONTRACTOR SHALL CONTACT TIM ARMBRUSTER AS NOTED IN SIGNAL NOTE #11 PRIOR TO COMMENCING WORK TO BE DONE BY CITY OF LAS VEGAS.

NOTE: ALL CONDUIT RUNS ARE SHOWN SCHEMATICALLY FOR CLARITY. CONTRACTOR SHALL DETERMINE THE ACTUAL LOCATION OF ALL CONDUITS AND PULLBOXES IN THE FIELD WHILE MAINTAINING CITY OF LAS VEGAS STANDARDS.

NOTE: TRAFFIC SIGNAL POLES SHALL BE FINISHED WITH AMERLOCK 400/AMERSHIELD SYSTEM NO. 5442D "HUMMINGBIRD BROWN" OR APPROVED EQUIVALENT.

- ### CONSTRUCTION NOTES
- CONSTRUCT EMERGENCY FLASHER PER SCHEDULES AND DETAILS, THIS SHEET.
 - INSTALL NO. 5 PULLBOX PER USD NO. 326 (SEE SHEET C-14) & CONCRETE AROUND PULL BOXES PER SUMMERLIN STD. DWG E-30 (SEE SHEET C-17).
 - INSTALL FIRE STATION SIGNAL CONTROL CABINET (SEE TRAFFIC SIGNAL NOTE 11).
 - MOUNT SIGN PER USD NO. 404.418 (SEE SHEET C-14).
 - MOUNT M-2 SIGNAL HEAD ASSEMBLY PER USD NO. 404.1023. (SEE SHEET C-14)
 - MOUNT CUSTOM SIGNAL HEAD PER USD NO. 404.1024 (B-3T) (SEE SHEET C-15). MOUNTS AT QUADRANT Z)
 - SEE ELECTRICAL PLANS, SHEET E3.1 FOR EXACT LOCATION OF TRAFFIC CONTROL BUTTON.
 - INSTALL TYPE R SIGNAL CONTROLLER CABINET PER USD NO. 404.307. FURNISH & INSTALL PREEMPTION SYSTEM PER STD DWG 404.320 (SUPERSEDED BY STD SPEC 623 T.02.12, SEE SHEET C-7).
 - INSTALL FOUNDATION PER STD DWG 404.213, SEE SHEET C-17.
 - INSTALL OPTICOM DETECTOR (SEE TRAFFIC SIGNAL NOTE 13.)
 - EXISTING STOP SIGN. SEE TRAFFIC SHEET C-7.
 - CONTRACTOR TO FURNISH "EAGLE" MODEL NO. 2070N CONTROLLER. CONTACT TIM ARMBRUSTER FOR DELIVERY AT 229-6075.
 - EXISTING PULLBOXES

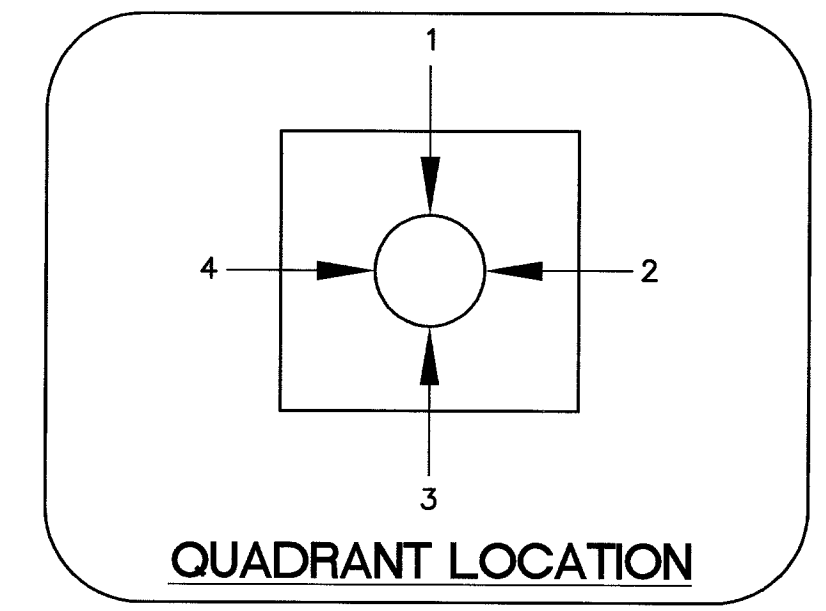


CONDUIT AND WIRE SCHEDULE												
* WIRE	FROM	TO	VIA CONDUIT									
(2) #10 THW & (1) #8 GRND (GREEN)	PANEL B	FIRE STATION SIGNAL CONTROL	X									
25 CONDUCTOR #14 AWG & (1) #8 GRND (GREEN)	FIRE STATION CONTROL CABINET	PULLBOX TO POLE A		X								
25 CONDUCTOR #14 AWG & (1) #8 GRND (GREEN)	FIRE STATION CONTROL CABINET	PULLBOX TO PULLBOX TO POLE B			X							
25 CONDUCTOR #14 AWG & (1) #12 GRND	FIRE STATION CONTROL CABINET	CONTROL BUTTON 2				X						
25 CONDUCTOR #14 AWG & (1) #12 GRND	FIRE STATION CONTROL CABINET	CONTROL BUTTON 1					X					
25 CONDUCTOR #14 AWG & (1) #8 GRND (GREEN)	TYPE R CONTROLLER CABINET	EX. PULLBOX TO EX. PULLBOX TO POLE C					X					
25 CONDUCTOR #14 AWG & (1) #8 GRND (GREEN)	TYPE R CONTROLLER CABINET	EX. PULLBOX TO POLE D						X				
(3) #4 THW & (1) #8 THW GND (GREEN)	EX. STREETLIGHT SERVICE PEDESTAL	EX. PULLBOX TO TYPE "R" CONTROLLER CABINET							X			
25 CONDUCTOR #14 AWG & (1) #8 GRND (GREEN)	TYPE R CONTROLLER CABINET	EX. PULLBOX TO PULLBOX TO POLE E								X		
CONDUIT SIZE			2"	3"	3"	3/4"	3/4"	3"	3"	2"	3"	
* 25 CONDUCTOR IS IMSA CABLE 20-1 SOLID												

POLE SCHEDULE												
POLE	LOCATION	FOUNDATION	POLE TYPE	SIGNAL ARM		LUMINAIRE	VEHICLE SIGNAL HEAD ASSEMBLIES		PEDESTRIAN SIGNAL ASSEMBLIES/PUSH BUTTONS	REMARKS		
				QUAD	LENGTH		TYPE	QUAD				
A	RIDGE PINE STREET 12+90.00 32.00' LT	TYPE "H"	XX-20'	2	30'		(2) M-2	M-ARM	N/A	INSTALL CUSTOM POLE CAPS TO FIT XX-20 POLE TYPES (TYP).		
B	RIDGE PINE STREET 12+95.00 31.00' RT	TYPE "H"	XX-20'	4	30'		(2) M-2	M-ARM	N/A	B-3T TO BE BALL INDICATIONS NOT ARROWS. (AIM HEADS TOWARD EACH APPARATUS BAY)		
C	FAR HILLS 474+59.51 42.31' LT	TYPE "H"	XX-20'	3	30'		(2) M-2	M-ARM	N/A			
D	FAR HILLS 475+75.00 48.50' RT	TYPE "H"	XX-20'	1	35'		(2) M-2	M-ARM	N/A			
E	FAR HILLS 474+76.68 48.50' RT	TYPE "H"	XX-20'	2	30'		(2) M-2	M-ARM	N/A	FURNISH & INSTALL OPTICOM PER TRAFFIC SIGNAL NOTE #13.		

BENCHMARK		
DESC.	NAVD 88 DATUM	NAVD 88 DATUM
U.S.C. & G.S. BRASS DISC SET IN ROCK ON THE EAST SIDE OF CHARLESTON BOULEVARD AND SOUTH OF THE RED ROCK DETENTION BASIN. (CLV BM No. 0368 3)	3246.71 (FEET)	989.599 (METERS)

BASIS OF BEARING
NORTH 89°45'05" EAST BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., AS SHOWN BY MAP ON FILE IN FILE 91, PAGE 28 OF PARCEL MAPS IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA.



Call before you Dig.
1-800-227-2600
UNDERGROUND SERVICE (USA)

CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

PROJ NO: 602.002
DESIGN: LG
PLOT DATE: 11/01/05
SCALE: AS SHOWN

STAMP DATE: 1/12/06

8395 W. SUNSET ROAD
Suite 190 NV 89113
Las Vegas, NV 89113
Tel: 702-859-0272
Fax: 702-307-0272
Web: tresolutions.com

TRC
Customer-Focused Solutions
BV Engineering Nevada

THE HOWARD HUGHES CORPORATION
FIRE STATION NO. 47
EMERGENCY SIGNAL FLASHERS

SHEET
C-8
8 OF 21 SHTS
CLV DWG NO.
630-102