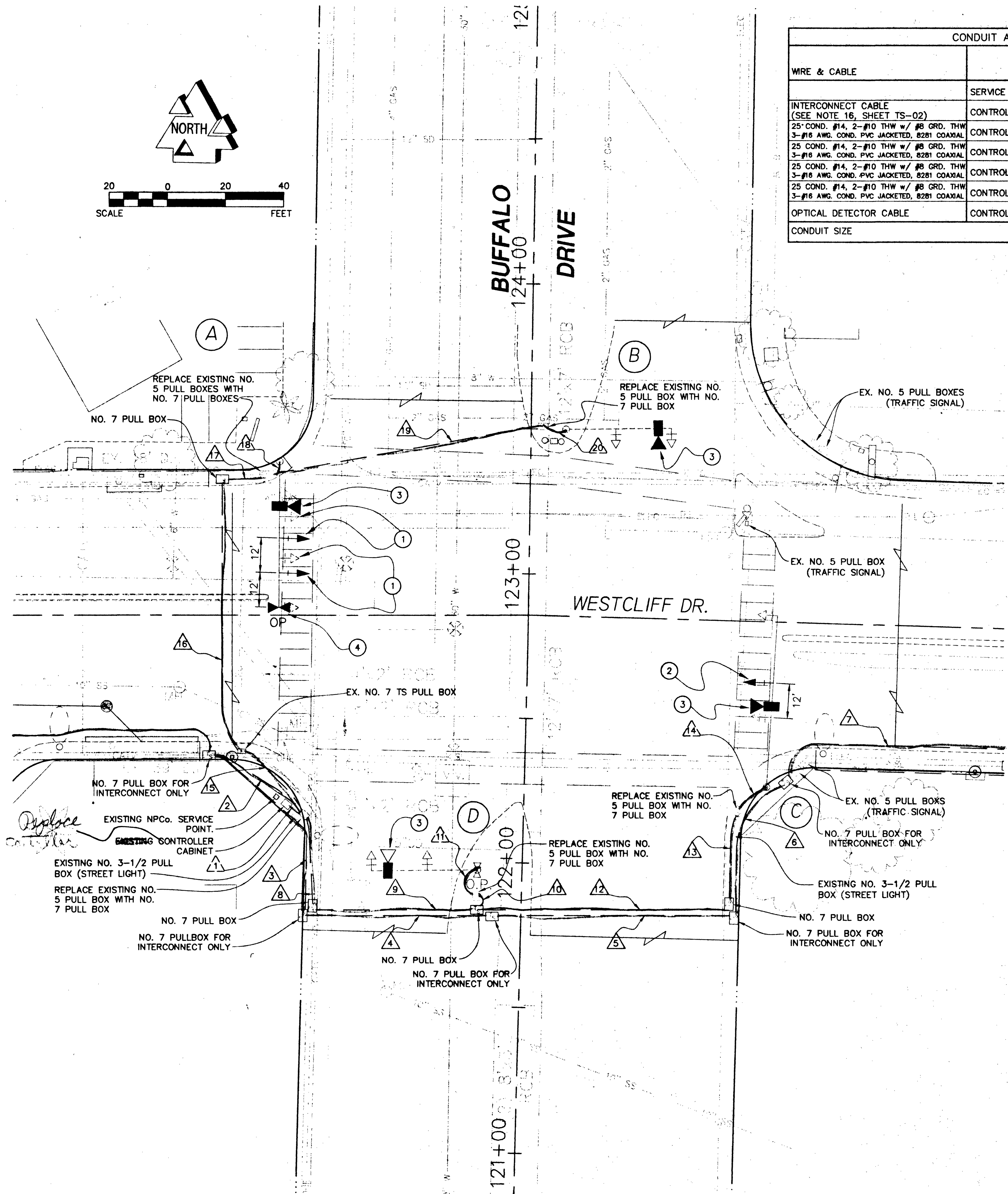
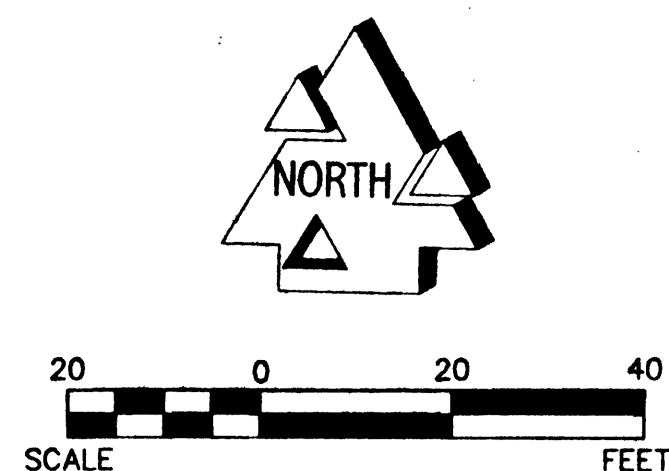




CONDUIT AND WIRE SCHEDULE																					
WIRE & CABLE	FROM	TO	CONDUIT RUN																		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
INTERCONNECT CABLE (SEE NOTE 16, SHEET TS-02)	SERVICE POINT	CONTROLLER CABINET																			
25 COND. #14, 2-#10 THW w/ #8 GRD. THW 3-#18 AWG. COND. PVC JACKETED, 8281 COAXIAL	CONTROLLER • BUFFALO	CONTROLLER • RAINBOW	X	X	X	X	X	X	X												
25 COND. #14, 2-#10 THW w/ #8 GRD. THW 3-#18 AWG. COND. PVC JACKETED, 8281 COAXIAL	CONTROLLER CABINET	POLE D	X							X	X	X	X								
25 COND. #14, 2-#10 THW w/ #8 GRD. THW 3-#18 AWG. COND. PVC JACKETED, 8281 COAXIAL	CONTROLLER CABINET	POLE C	X							X	X			X	X	X					
25 COND. #14, 2-#10 THW w/ #8 GRD. THW 3-#18 AWG. COND. PVC JACKETED, 8281 COAXIAL	CONTROLLER CABINET	POLE A	X													X	X	X	X		
25 COND. #14, 2-#10 THW w/ #8 GRD. THW 3-#18 AWG. COND. PVC JACKETED, 8281 COAXIAL	CONTROLLER CABINET	POLE B	X													X	X	X	X	X	X
OPTICAL DETECTOR CABLE	CONTROLLER CABINET	POLE A	X													X	X	X	X		
CONDUIT SIZE			EX. 1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-2"	1-2"	1-2"	EX. 1-2"	1-2"	EX. 1-2"	EX. 1-2"	EX. 1-2"	EX. 1-2"	EX. 1-2"	EX. 1-2"	EX. 1-2"	EX. 1-2"

ACME ELECTRIC
AS-BUILTS
[Signature]
Date: 11/16/01
ALL CHANGES TO THE APPROVED DRAWINGS ARE NOTED IN RED.

EQUIPMENT SCHEDULE		
LOCATION	FOUNDATION TYPE	EQUIPMENT
APPROX. WC 36+03, 65' RT	(EXIST)	EXISTING CONTROLLER CABINET
APPROX. WC 35+99, 63' RT	(EXIST)	EXISTING SERVICE PEDESTAL CLV # 7601

VIDEO DETECTION NOTES

- VIDEO IMAGE DETECTION SYSTEM (VDS) SHALL BE EITHER VIDEOTRAC 900 OR AUTO SCOPE 2004. OTHER VIDEO DETECTION SYSTEMS WILL NOT BE ACCEPTED. ALL COMPONENTS OF THE VDS SHALL COMPLY WITH CLARK COUNTY SPECIFICATIONS. NO DIRECT PAYMENT FOR THE REMOVAL OF THE EXISTING LOOP DETECTION SYSTEM.
- INSTALL FOUR (4) VIDEO IMAGE DETECTION CAMERAS AT THE INTERSECTIONS OF BUFFALO AND TENAYA. LOCATE CAMERAS ON EACH POLE PER MANUFACTURER'S RECOMMENDATIONS. VIDEO IMAGE DETECTION CAMERAS SHALL BE:
 - CAPABLE OF COVERING ALL THROUGH TRAVEL LANES AS WELL AS ANY TURNING MOVEMENTS.
 - CAPABLE OF DETECTION PER MANUFACTURER'S DEFINED SPECIFICATIONS.
- A 8281 COAXIAL CABLE AND 3 CONDUCTOR NO. 16 PVC JACKETED CABLE SHALL BE FURNISHED FROM THE CONTROLLER CABINET TO EACH VIDEO CAMERA.
- ALL SALVAGED SIGNAL EQUIPMENT SHALL BE DELIVERED TO THE CITY OF LAS VEGAS TRAFFIC ENGINEERING FIELD OPERATIONS AT 310 EAST BONANZA.
- CONTACT MIKE EDWARDS AT THE CITY OF LAS VEGAS TRAFFIC ENGINEERING FIELD OPERATIONS AT (702) 229-6331 48 HOURS PRIOR TO PERFORMING WORK IN CONTROLLER CABINET.
- DISCONNECT ALL DETECTOR LEAD IN CABLE PRIOR TO COLD MILLING. CONTACT CLV TRAFFIC ENGINEERING FIELD OPERATIONS 48 HOURS PRIOR TO DISCONNECTION OF DETECTOR LOOPS FOR MODIFICATION OF SIGNAL OPERATION.

- RELOCATE EXISTING MAST ARM SIGNAL HEAD TO NEW POSITION TO ALIGN WITH APPROX. CENTER OF TRAVEL LANE AT 12' OFFSET FROM ADJACENT SIGNAL HEAD.
- ADD NEW MAST ARM SIGNAL HEAD (M-2) TO ALIGN WITH APPROX. CENTER OF TRAVEL LANE AT 12' OFFSET FROM ADJACENT SIGNAL HEAD.
- LOCATION OF VIDEO DETECTION CAMERA AND THE ZONES OF DETECTION ARE TO BE DETERMINED BY THE MANUFACTURER'S REPRESENTATIVE AND APPROVED BY THE CITY OF LAS VEGAS. VIDEO DETECTION SHALL BE CLASS "A". VIDEO POWER SHOULD BE FROM 3-#18 COND. PVC JACKETED.
- OPTICAL DETECTOR (2-WAY) TO BE MOUNTED ON TOP OF LEFT MOST SIGNAL HEAD. DETECTOR CABLE SHALL RUN FROM THE CONTROLLER TO THE OPTICAL DETECTOR SHOWN ON THE CONDUIT AND WIRE SCHEDULE. HOOK UP TO EXISTING EMERGENCY VEHICLE PRIORITY CONTROL SYSTEM INSTALLED WITHIN THE CONTROLLER CABINET FOR THE EXISTING OPTICAL DETECTOR.

NOTES

WHENEVER FEASIBLE, CONTRACTOR SHALL UTILIZE EXISTING CONDUITS IN LIEU OF INSTALLING NEW RUNS. VIDEO DETECTION COAXIAL CABLE TO BE RUN SEPARATELY IN ITS OWN 2" CONDUIT, EXCEPT IN CONDITION AT SIGNAL FOUNDATIONS WHERE ONLY ONE CONDUIT EXISTS. COAXIAL CABLE MAY SHARE THE CONDUIT THAT ENTERS THE SIGNAL POLE FOUNDATION. CONTRACTOR TO INSTALL ANY ADDITIONAL SHIELDING ON COAXIAL IN SHARED CONDUIT DEEMED NECESSARY BY MANUFACTURER.

CONTRACTOR TO ENSURE THAT THE VIDEO IMAGING DETECTION SYSTEM, EMERGENCY VEHICLE PRIORITY CONTROL SYSTEM, AND THE TRAFFIC SIGNAL SYSTEM FUNCTION PROPERLY AND ARE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

CONDUITS AND PULL BOXES SHOWN SCHEMATICALLY FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF EXISTING AND PROPOSED FACILITIES AND ENSURE PROPOSED FACILITIES ARE INSTALLED PER USD AND MANUFACTURER'S RECOMMENDATIONS.

CONTRACTOR TO REMOVE AND REPLACE CONCRETE SIDEWALK AS REQUIRED.

REPLACE EXISTING INTERNALLY ILLUMINATED OVERHEAD STREET NAME SIGN AND BLOCK NUMBER SIGN WITH THE MODIFIED INTERNALLY ILLUMINATED STREET NAME SIGN PER USD NO. 404.417 MODIFIED BY CLV. SEE SCHEDULE BELOW AND DETAIL ON SHEET TS-08.

STREET NAME AND BLOCK NUMBER SIGN TABLE PER USD NO. 404.417 MODIFIED			
POLE	STREET NAME	WIDTH	BLOCK #
(A)	BUFFALO	8'	N 100
(B)	WESTCLIFF	8'	W 7500
(C)	BUFFALO	8'	S 100
(D)	WESTCLIFF	8'	W 7600

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UNDERGROUND SERVICE (USA)

Avoid hitting overhead power lines. It's costly.

CALL BEFORE YOU DIG

1-702-593-6111

PROJ NO: 99202
DESIGN: K.H./RAS
DATE: 02/10/00
SCALE: AS SHOWN
CADFILE: WC_TS09

ENGINEER
ALLEN P. RAS
Stamp Date: 02-16-00

WESTCLIFF DRIVE IMPROVEMENTS
CIMARRON ROAD TO RAINBOW BLVD
TRAFFIC SIGNAL MODIFICATIONS AT BUFFALO DRIVE
TRAFFIC CONDUIT DESIGN

SHEET
TS-09
45 OF 47 SHEETS
DRAWING NO.
107-V3099

SOUTHERN NEVADA PAVING, INC.

AS BUILT

DATE: 11/16/01