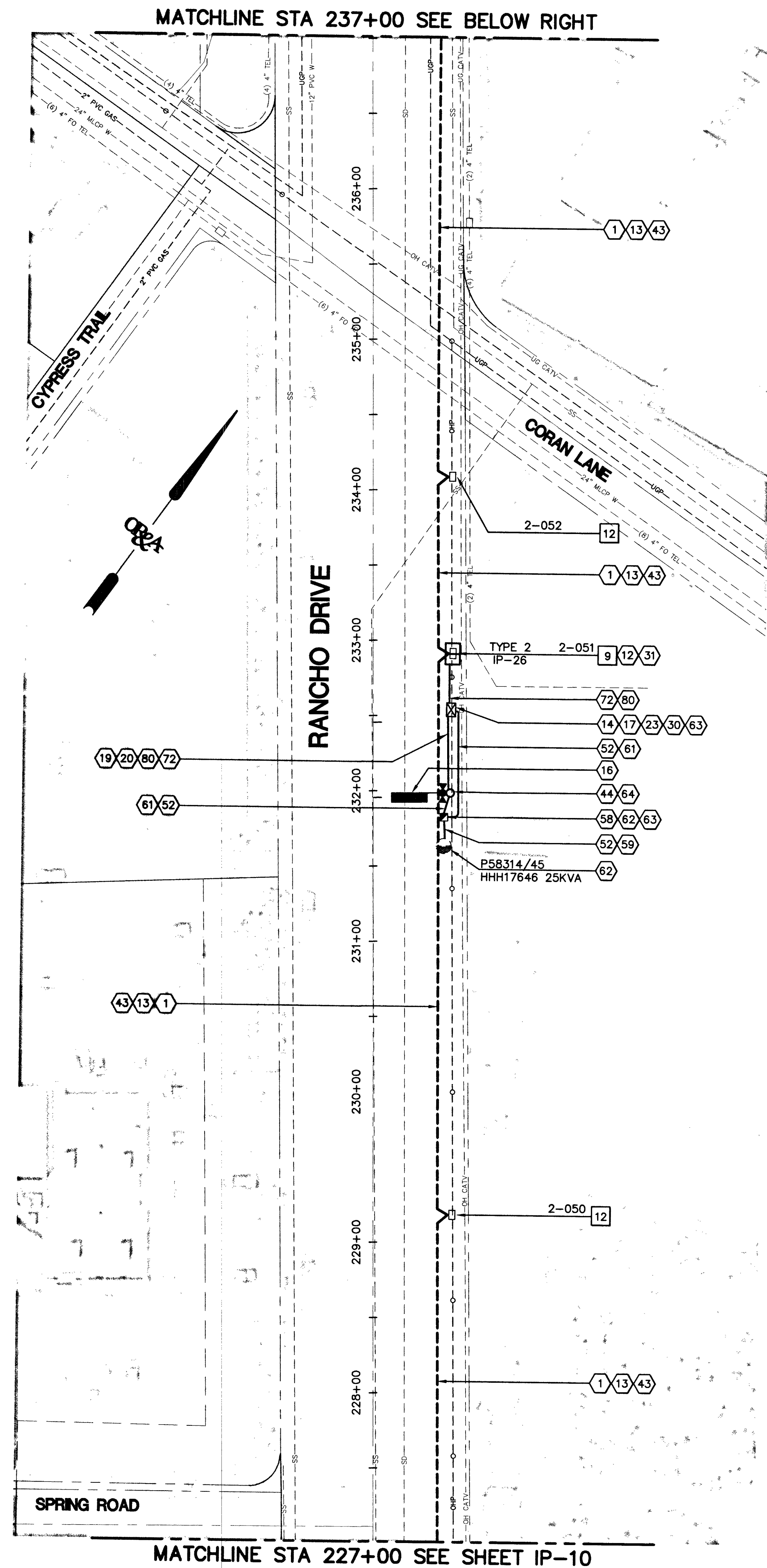
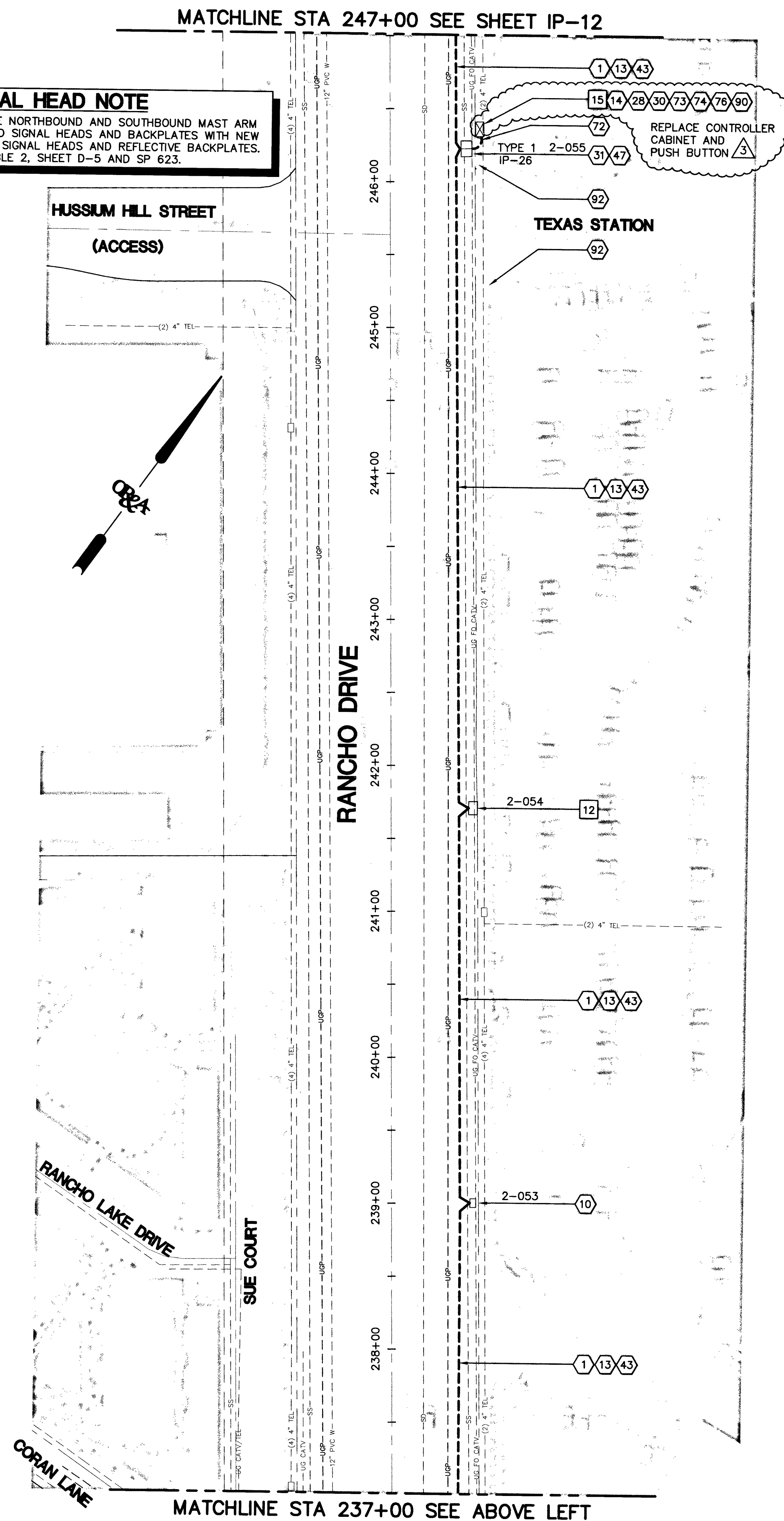




SIGNAL HEAD NOTE
 REPLACE NORTHBOUND AND SOUTHBOUND MAST ARM MOUNTED SIGNAL HEADS AND BACKPLATES WITH NEW IN KIND SIGNAL HEADS AND REFLECTIVE BACKPLATES. SEE TABLE 2, SHEET D-5 AND SP 623.



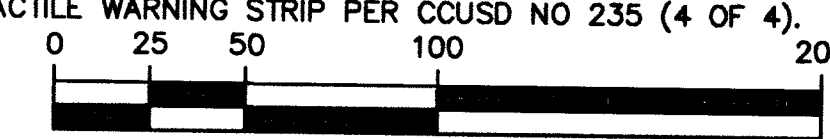
Orth-Rodgers and Associates, Inc.
 TRANSPORTATION ENGINEERS AND PLANNERS
 3130 South Durango Drive, Suite 404
 Las Vegas, NV 89117 (702) 233-4060

REMOVAL NOTES

- 9 REMOVE EXISTING P-30 PULLBOX
- 12 REMOVE EXISTING NDOT #7 PULLBOX AND JOIN CONDUIT TO MAKE CONTINUOUS
- 15 REMOVE AND SALVAGE CONTROLLER CABINET

CONSTRUCTION NOTES

- 1 VERIFY PATH, REMOVE EXISTING INTERCONNECT CABLE, CLEAN OUT AND RECONDITION EXISTING CONDUIT TO ACCOMMODATE FIBER OPTIC CABLE PER SP623.05
- 10 EXISTING NDOT #7 PULLBOX
- 12 INSTALL TYPE 200 SPLICE VAULT SEE DETAILS SHEET D-1
- 13 INSTALL 72 STRAND FIBER OPTIC TRUNK LINE AND A 6 PAIR PE39 NO 22 AWG TRACER IN EXISTING CONDUIT
- 14 INSTALL CDCA UNIT IN CONTROLLER CABINET
- 16 INSTALL DYNAMIC MESSAGE SIGN PER PER DETAILS, SHEET D-6. DMS POLE TO BE FIELD VERIFIED.
- 17 INSTALL 334 CABINET AND FOUNDATION PER DETAIL 2 SHEET D-2
- 19 INSTALL CAT 5 CABLE IN CONDUIT FOR COUNT STATION RADAR
- 20 INSTALL CAT 5 CABLE IN CONDUIT FOR DYNAMIC MESSAGE SIGN
- 23 INSTALL COUNTING EQUIPMENT IN 334 CABINET PER DETAIL 1 SHEET D-2
- 28 UPGRADE PHASE SELECTOR CARD FOR OPTICOM SENSOR TO A GT764 AND A GTT 768 AUXILIARY INTERFACE PANEL (AIP).
- 30 THE CONTRACTOR SHALL PROVIDE THE LAYER 2 FIELD-HARDENED ETHERNET SWITCH TO FAST PER THE RTC UNIFORM STANDARD SPECIFICATION 684, INSTALLATION BY FAST
- 31 INSTALL FIBER OPTIC SPLICE WITHIN ENCLOSURE PER DIAGRAM SHEETS IP-26 THRU IP-29
- 43 EXISTING 4" CONDUIT
- 44 INSTALL (2) COUNT STATION RADAR UNITS, ONE NORTHBOUND AND ONE SOUTHBOUND
- 47 EXISTING NDOT #9 PULLBOX
- 52 INSTALL 2" CONDUIT IN LANDSCAPE AREA, RESTORE LANDSCAPE TO ORIGINAL CONDITION
- 58 INSTALL 125 AMP SERVICE PEDESTAL AND FOUNDATION
- 59 INSTALL (2) #1/0 THW AND (1) #1/0 WHITE THW CONDUCTORS (INCIDENTAL TO SERVICE PEDESTAL PAY ITEM)
- 61 INSTALL (3) #4 THW (WHITE, BLACK AND GREEN) (INCIDENTAL TO 334 CABINET PAY ITEM)
- 62 CONNECT (2) #1/0 THW AND (1) #1/0 WHITE THW TO EXISTING VAULT. CONTRACTOR TO CONTACT NEVADA POWER TO COORDINATE CONNECTION TO EXISTING VAULT AND SERVICE PEDESTAL (INCIDENTAL TO SERVICE PEDESTAL PAY ITEM)
- 63 CONNECT (3) #4 THW (WHITE, BLACK, AND GREEN) TO SERVICE PEDESTAL AND CONTROLLER CABINET (INCIDENTAL TO SERVICE PEDESTAL PAY ITEM)
- 64 INSTALL GUARDRAIL WITH TANGENT END TREATMENT PER NDOT STANDARD DWGS R-8.1.1 AND R-8.3.1. SEE SHEET D-7 FOR STANDARD DETAILS.
- 72 INSTALL CDCA ITS DROP CABLE GP2G012FR-60 AND 6 PAIR PE39 NO 22 AWG TRACER IN CONDUIT
- 73 INSTALL TYPE VIII CABINET, COMMONLY REFERRED TO AS A TYPE "R" CABINET ON EXISTING TYPE "J" FOUNDATION. THE CABINET SHALL HAVE TWO (2) RACK-MOUNTED, 12 SLOT, LOOP DETECTION RACKS WITH 2 DETECTOR LOOP CHANNELS PER SLOT FULLY WIRED SO THAT ALL CHANNELS ARE USABLE, WITH 4 CHANNEL SLOTS THAT CAN ACCOMMODATE VIDEO DETECTION CABLES. THE CABINET SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS, CLARK COUNTY AREA, NEVADA
- 74 THE CONTRACTOR SHALL FURNISH NEW NAZTEC 980 ATC TS2 TYPE 2 NTCIP COMPLIANT SIGNAL CONTROLLER OR NEW SIEMENS EAGLE M-53 SIGNAL CONTROLLER, 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.
- 76 UPGRADE VIDEO DETECTION SYSTEM WITH ETHERNET CAPABILITIES, COLOR CAMERAS, AND CABLE USING EXISTING CONDUIT. SEE SHEET D-5 FOR DETAILS.
- 80 INSTALL 3" CONDUIT IN LANDSCAPE AREA
- 90 UPGRADE EXISTING PEDESTRIAN PUSH BUTTON TO AN AUDIBLE-TACTILE PEDESTRIAN SYSTEM USING EXISTING CONDUIT AND CABLE.
- 92 REMOVE AND REPLACE SIDEWALK PANEL FOR THE WET INSTALLATION OF THE TACTILE WARNING STRIP PER CCUSD NO 235 (4 OF 4).



(IN FEET)
 APPROXIMATE SCALE: 1" = 50'

SAFETY ALERT

Call Before You Dig
 Before You Overhead

Call Before You Dig
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Call Before You Dig
 Before You Overhead

Call Before You Dig
 Before You Overhead

DEPARTMENT OF PUBLIC WORKS ENGINEERING DESIGN SECTION CITY ENGINEER: DAVID N. BOWERS, P.E., P.T.O.E. PROJECT MANAGER: LORRAINE LINNET DUNFORD, P.E. DESIGNED BY: WJW DRAWN BY: JS CHECKED BY: RM DATE: 2013-04-02		REVISIONS 1 1/7/13 ADDENDUM NO. 1 2 3/9/14 PULLBOX AND CONDUIT CHANGES BASED IN FIELD VERIFICATION 3 7/24/14 NDOT PERMIT AMENDMENT
CLV ITS INFRASTRUCTURE - CORRIDOR 2 RANCHO DRIVE TRAFFIC SIGNAL INTERCONNECT INFRASTRUCTURE UPGRADE PLAN STA 227+00 TO STA 247+00		SHEET IP-11 14 of 42 DRAWING NO. 107V4475-FIB

*STATIONS SHOWN ARE FOR REFERENCE ONLY

CLV BID NO. 11/730.20