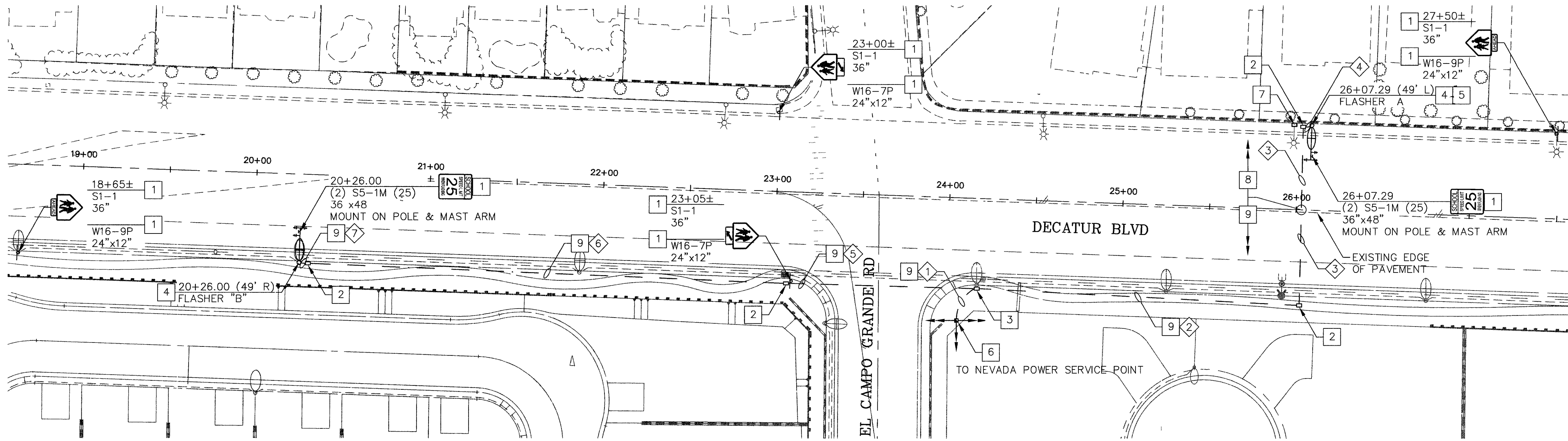


Date: October 18, 2005 - 11:29am / User: thornes\advent
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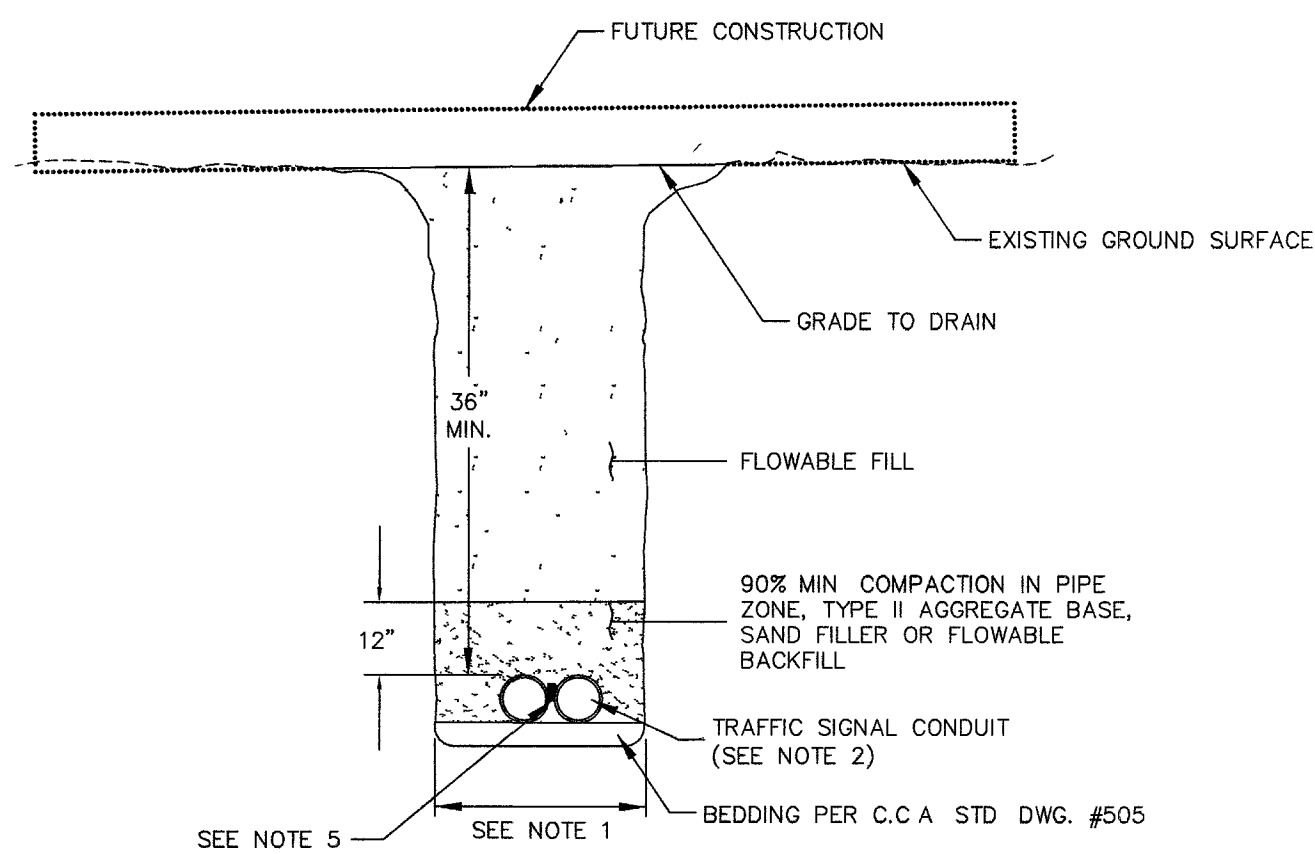


SCHOOL FLASHING BEACON GENERAL NOTES:

- CONDUIT ROUTING SHOWN ON THE PLAN IS SCHEMATIC AND MAY DIFFER FROM ACTUAL INSTALLATION
- EXISTING STREET LIGHT AND TRAFFIC SIGNAL POLES, INCLUDING HARDWARE AND ALL OTHER APPURTENANCES TO BE REMOVED SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO CITY OF LAS VEGAS AND/OR CITY OF NORTH LAS VEGAS UNLESS OTHERWISE SPECIFIED. CALL TO SCHEDULE AN APPOINTMENT, PRIOR TO DELIVERY
- ALL STREET LIGHT HAND HOLE COVERS MUST BE INSTALLED, POLE CAPS POURED AND PULL BOX LIDS BOLTED DOWN PRIOR TO ENERGIZING CIRCUIT. ALL WIRE MUST HAVE THW-2 INSULATION
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS FROM DAMAGE. ALL IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR OPERATIONS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR
- CONTRACTOR SHALL CONTACT CITY OF LAS VEGAS AND/OR CITY OF NORTH LAS VEGAS TRAFFIC OPERATIONS TO SCHEDULE STAFF TO LOCATE UNDERGROUND STREET LIGHTING AND SIGNAL FACILITIES IN THE PROJECT AREA. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED PRIOR TO LOCATES. HOURS OF OPERATION: 6:30 AM TO 3:00 PM MONDAY THROUGH FRIDAY EXCLUDING HOLIDAYS
- IN THE EVENT THAT ANY TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY THE CONTRACTOR, THE CONTRACTOR WILL HIRE AN IMSA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623 G.01.02
- FOR POLE FOUNDATION DETAILS SEE CITY OF LAS VEGAS AND/OR CITY OF NORTH LAS VEGAS AREA UNIFORM STANDARD DRAWINGS VOL II
- ALL EMPTY CONDUIT WILL CONTAIN A SINGLE No. 8 AWG THW-2 OR BARE COPPER WIRE FOR THE PURPOSE OF LOCATING THE CONDUIT
- THE MAXIMUM DISTANCE FROM THE NEVADA POWER TRANSFORMER TO THE 200 AMP SERVICE IS 450 FEET. USE 2" PVC WITH (3) # 4/0 AWG THW-2 COPPER
- CONTRACTOR SHALL RECONSTRUCT SIDEWALK TO MATCH EXISTING CONDITIONS
- CONTRACTOR SHALL VERIFY THE LOCATION OF THE FLASHING BEACON FOUNDATION WITH CITY OF LAS VEGAS AND/OR CITY OF NORTH LAS VEGAS TRAFFIC MANAGEMENT PRIOR TO POURING THE FOUNDATION.
- STREETLIGHT CABLE AND FLASHING BEACON CABLE SHALL BE RUN IN SEPARATE CONDUITS

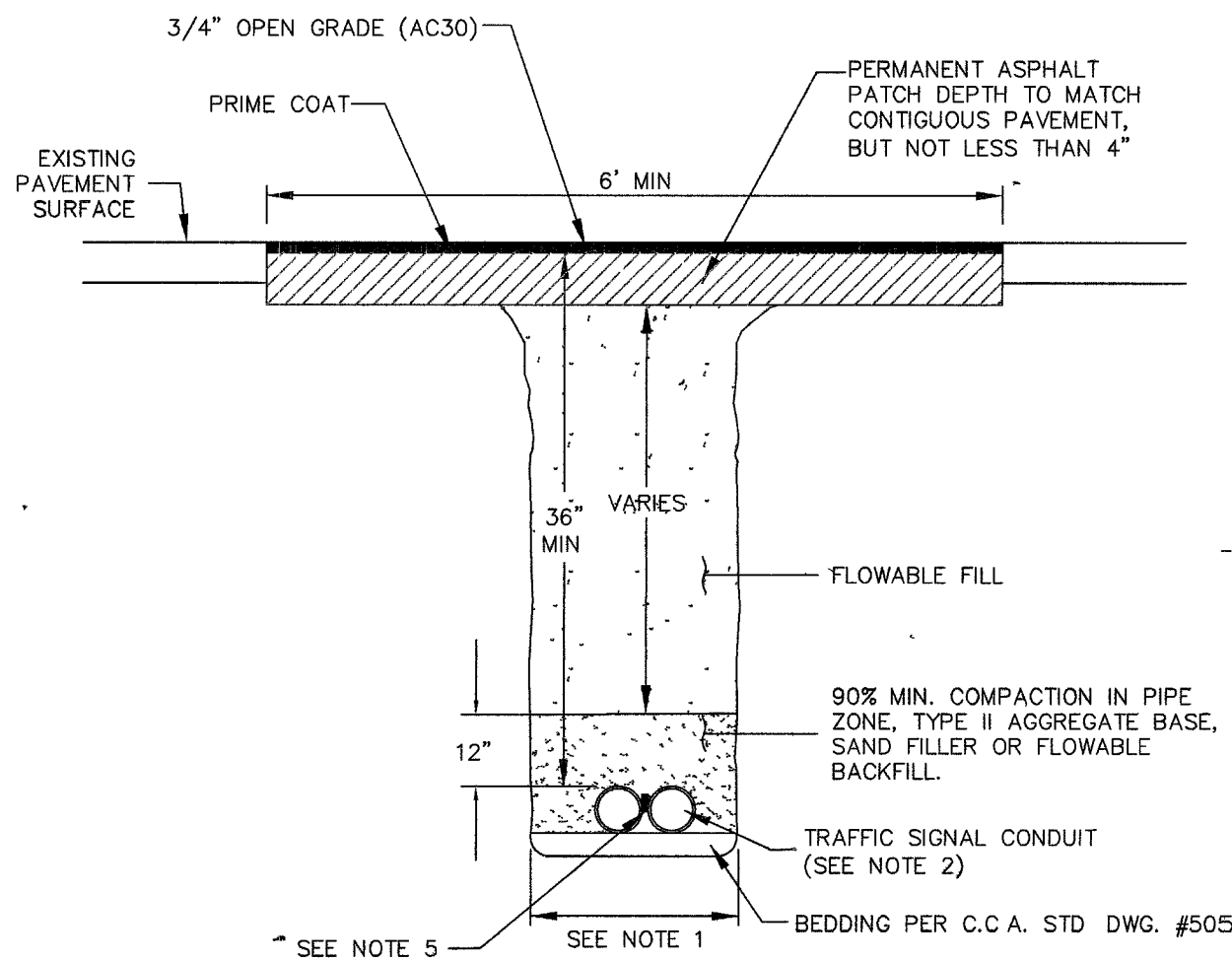
SIGNING AND MARKING GENERAL NOTES:

- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS FROM DAMAGE. ALL IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR OPERATIONS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR
- THE CONTRACTOR SHALL PROVIDE PILOT AND ALIGNMENT LINES FOR THE ENGINEER'S APPROVAL PRIOR TO PERFORMING ANY MARKING WORK. CONTACT THE ENGINEER 48 HOURS IN ADVANCE
- ALL COLD POLYMER PAVEMENT MARKING FILM SHALL BE EQUIVALENT TO CURRENT CLARK COUNTY AREA STANDARDS AND MUST BE ON APPROVED PROVISIONAL QUALIFIED PRODUCTS LIST, UNLESS OTHERWISE SPECIFIED. THE FILM SHALL BE HIGHLY DURABLE, INTERSECTION GRADE RETROREFLECTIVE, PERFORMED PAVEMENT MARKING FILM, USING CONTACT CEMENT APPLICATION SYSTEM, APPLIED AND TAMPED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. THE MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT AT THE TIME OF INSTALLATION. ALL APPLICATION METHODS SHALL BE CONFIRMED BY THE ENGINEER AND MANUFACTURER PRIOR TO INSTALLATION. ALL PAVEMENT MARKING FILM SHALL NOT BE PLACED EARLIER THAN (2) WEEKS AFTER FINAL A.C. LAYER IS PLACED. ALL MATERIALS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE TEMPORARY PAVEMENT MARKINGS AS NEEDED. ALL PAVEMENT MARKING FILM ARROWS AND LEGENDS SHALL BE TYPE I PAVEMENT MARKING FILM. ALL OTHER PAVEMENT MARKING FILM SHALL BE TYPE 2
- RETURN ALL SALVAGED MATERIAL TO CITY OF LAS VEGAS AND/OR CITY OF NORTH LAS VEGAS TRAFFIC OPERATIONS, CALL FOR AN APPOINTMENT
- EXACT LOCATION OF ALL SIGNS SHALL BE STAKED BY THE CONTRACTOR FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO INSTALLATION. NOTIFY TRAFFIC DIVISION 48 HOURS PRIOR TO PERFORMING ANY SIGN INSTALLATION WORK. SIGN(S) SHALL BE MOUNTED ON A POST, NEAREST STREET LIGHT POLE MEETING MINIMUM SIGN SPACING REQUIREMENTS OR MAST ARM
- ALL MODIFICATIONS TO EXISTING SIGNS AND ALL NEW SIGN INSTALLATIONS SHOULD PROVIDE 7' OF VERTICAL CLEARANCE BETWEEN THE GROUND AND BOTTOM OF SIGN
- THE GIVEN MUTCD REFERENCE IS TO BE USED FOR GUIDANCE IN MAKING THE SIGNS. VARIATIONS TO THE STANDARD MUTCD SIGN ONLY AFFECT THE SIGN'S LAYOUT AND GRAPHICS. ALL LETTERING SIZES AND SIGN COLORS ARE PER THE GIVEN MUTCD REFERENCE
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE UNIFORM STANDARDS SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION OF SITE IMPROVEMENTS CITY OF LAS VEGAS AND/OR CITY OF NORTH LAS VEGAS AREA NEVADA, LATEST EDITION. SPECIFICALLY, SECTIONS 619 "OBJECT MARKERS AND GUIDE POSTS", 627 "PERMANENT SIGNS", 628 "PAINTED TRAFFIC STRIPPING, PAVEMENT MARKINGS, AND CURB MARKINGS", 633 "PAVEMENT MARKERS", 714 "PAINT AND PAVEMENT MARKINGS", 716 "SIGN MATERIALS" AND 721 "OBJECT MARKERS AND GUIDE POSTS"
- ALL POSTS SHALL BE GALVANIZED PER ASTM A 123
- THE SIGN CONTRACTOR SHALL LOCATE SIGNS TO MAXIMIZE SIGHT VISIBILITY. ALL SIGNS SHALL BE INSTALLED BY THE CONTRACTOR PER CURRENT MUTCD REQUIREMENTS
- SIGN INSTALLATION SHALL BE SECURE AND PERMANENT. ALL MOUNTING HARDWARE SHALL BE PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER
- THE SIGN LOCATIONS AND MOUNTINGS SHOWN ON THESE PLAN DRAWINGS ARE FOR GENERAL INFORMATION ONLY. THE CONTRACTOR IS TO ARRANGE A MEETING WITH THE OWNER AND THE ENGINEER AT THE SITE TO VERIFY FINAL SIGN LOCATIONS AND MOUNTING TYPE
- THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS NEEDED FOR COMPLETE SIGN INSTALLATIONS
- IT IS THE INTENT OF THE OWNER TO HAVE THE FINEST SIGNING AND GRAPHICS POSSIBLE FOR THIS PROJECT. THE OWNER RESERVES THE RIGHT TO REJECT ANY UNACCEPTABLE MATERIALS, CONSTRUCTION, FINISHING TECHNIQUES AND WORKMANSHIP



CONDUIT TRENCH IN NEW ROADWAY SECTION
CONSTRUCTION DETAIL

NTS



CONDUIT TRENCH IN EXISTING ROADWAY
CONSTRUCTION DETAIL

NTS

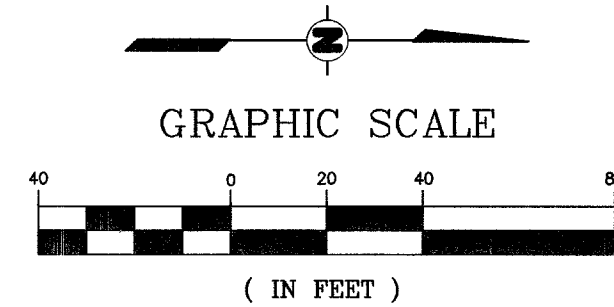
CONSTRUCTION NOTES:

- PROVIDE AND INSTALL NEW SIGN(S) WITH "ENCAPSULATED LENS RETROREFLECTIVE SHEETING" CLASS 4 (HIGH INTENSITY GRADE, OR EQUAL). PEDESTRIAN CROSSING AND SCHOOL ZONE CROSSING SIGNS SHALL HAVE CLASS 6 FLORESCENT YELLOW GREEN REFLECTIVE SHEETING (3M TYPE 3983, OR APPROVED EQUAL). SIGN(S) SHALL BE MOUNTED ON A POST, STREET LIGHT POLE OR MAST ARM, AT THE STATION SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. (SEE SIGNING AND MARKING GENERAL NOTES THIS SHEET)
- PROVIDE AND INSTALL No. 5 PULL BOX MARKED "TRAFFIC SIGNAL" PER CCA STD DWG No. 404.120 (INSTALLATION DETAIL), AND 404.140 (COVER BONDING DETAIL)
- PROVIDE AND INSTALL No. 7 PULL BOX MARKED "TRAFFIC SIGNAL" PER CCA STD DWG No. 404.130 (INSTALLATION DETAIL), AND 404.140 (COVER BONDING DETAIL)
- PROVIDE AND INSTALL SCHOOL FLASHING BEACON ASSEMBLY, INCLUDING POLE, FOUNDATION, 250W/120V STREETLIGHT AND MAST ARM WITH SCHOOL FLASHING BEACON ASSEMBLY. SEE SHEET FB-2 FOR FLASHING BEACON ASSEMBLY DETAILS AND WIRING DIAGRAM
- PROVIDED AND INSTALL SIDE MOUNTED FLASHER/TIMER ASSEMBLY CABINET WITH RTC PAGER BASED TIMER, MODEL CPR-2102 WITH ANTENNA ASSEMBLY PER CCA STD DWG No. 404.309. SEE SHEET FB-2 FOR FLASHING BEACON ASSEMBLY DETAIL AND WIRING DIAGRAM
- PROVIDE AND INSTALL NEW 200 AMP, 120V/240V SERVICE PEDESTAL. CONTRACTOR SHALL PROVIDE THE FOLLOWING EQUIPMENT:
(1) 60 AMP, 2 POLE, 240 VOLT LIGHTING CONTACTOR - GE#CR360L40202AAZ
(1) 60 AMP, 2 POLE, 240 VOLT STREET LIGHTING CIRCUIT (FLASHER A)
(1) 15 AMP, 1 POLE, 120 VOLT PHOTOELECTRIC CONTROL - AREA RESEARCH SST-IES
(1) 30 AMP, 1 POLE, 120 VOLT FLASHING BEACON CIRCUIT (FLASHER A & B)
THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT FOR SERVICE CONNECTION PER NEVADA POWER/CLARK COUNTY SPECIFICATIONS, INCLUDING CONDUIT RISER AND CONDUCTORS UP TO SERVICE PEDESTAL
- REMOVE AND SALVAGE EXISTING STREET LIGHT POLE, ARM, AND LUMINAIRE. REMOVE EXISTING FOUNDATION TO 18" MIN BELOW EXISTING GRADE AND BACKFILL IN KIND AND REPLACE WITH No. 5 PULL BOX, MARKED "STREET LIGHT". DIRECT PULL NEW WIRE FROM EXISTING STREET LIGHT TO EXISTING STREET LIGHT WITHOUT SPLICING
- INSTALL CONDUIT IN "EXISTING ROADWAY" SECTION PER DETAIL THIS SHEET
- INSTALL CONDUIT IN "NEW CONSTRUCTION" SECTION PER DETAIL THIS SHEET

CONDUIT AND CABLE SCHEDULE

DESCRIPTION	FROM	TO	1	2	3	4	5	6	7
3-#8 THW-2 COPPER AS FOLLOWS (1) RED FLASHER + (1) WHITE FLASHER - (1) GREEN GROUND	SERVICE PEDESTAL	FLASHER A	•	•	•	•			
3-#4 THW-2 COPPER AS FOLLOWS (1) BLACK SL + (1) WHITE SL - (1) GREEN GROUND	SERVICE PEDESTAL	STREET LIGHT ON FLASHER A	•	•	•	•			
5-#8 THW-2 COPPER AS FOLLOWS (1) YELLOW FLASHER CIRCUIT #1 + (1) ORANGE FLASHER CIRCUIT #2 + (1) WHITE FLASHER - (1) GREEN GROUND (1) PURPLE SPARE	FLASHER A	FLASHER B		•	•	•	•	•	•
3-#4 THW-2 COPPER AS FOLLOWS (1) BLACK SL + (1) WHITE SL - (1) GREEN GROUND	STREET LIGHT ON FLASHER A	STREET LIGHT ON FLASHER B	•	•	•	•	•	•	•
CONDUIT SIZE AND No.			(N) 2-T	(N) 2-T	(N) 2-T	(N) 2-T	(N) 2-T	(N) 2-T	(N) 2-T

(N) - NEW
(E) - EXISTING



TRENCHING DETAIL NOTES:

- TOTAL TRENCH WIDTH SHALL BE 6" WIDER THAN THE SUM OF OUTSIDE DIAMETERS OF CONDUIT(S) INSTALLED. CONDUIT(S) SHALL BE CENTERED IN TRENCH.
- CONDUIT SIZE AND NUMBER MAY VARY. SEE PLANS
- DETECTABLE MULE TAPE, OR APPROVED EQUAL, SHALL BE INSTALLED IN 4" CONDUIT
- CONDUIT COUPLINGS SHALL BE STAGGERED
- USE CONDUIT SPACERS TO SEPARATE MULTIPLE CONDUIT IN TRENCH BY AT LEAST 2". PLACE SPACERS AT INTERVALS OF 5' MAX

CITY OF NORTH LAS VEGAS TRAFFIC ENGINEER
David L. ... DATE: 10/18/05

Call before you Overhead
1-702-593-6111
NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

Call before you Dig.
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UNDERGROUND SERVICE (UGS)

RANCHERS - A Division of D.R. HORTON, INC.
3513 E RUSSELL ROAD, SUITE D
LAS VEGAS, NV 89120
(702) 435-8885

FLASHING BEACON

MANOR/ESTATES
AT RIVERWALK RANCH

DRAWN BY: T. ACKERET 9-9-05
DESIGNED BY: T. ACKERET 9-9-05
CHECKED BY: R. CARROLL 9-9-05
PROJECT NO: 09243303B

PROJECT NO: 09243303B
SHEET
FB-1
43 OF 44 SHEETS

FLASHING BEACON PLANS

1050 East Fremont Road
Suite 5-210
Las Vegas, Nevada 89119
Tel No (702) 734-5666
Fax No (702) 735-4949

Kimley-Horn
and Associates, Inc.
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