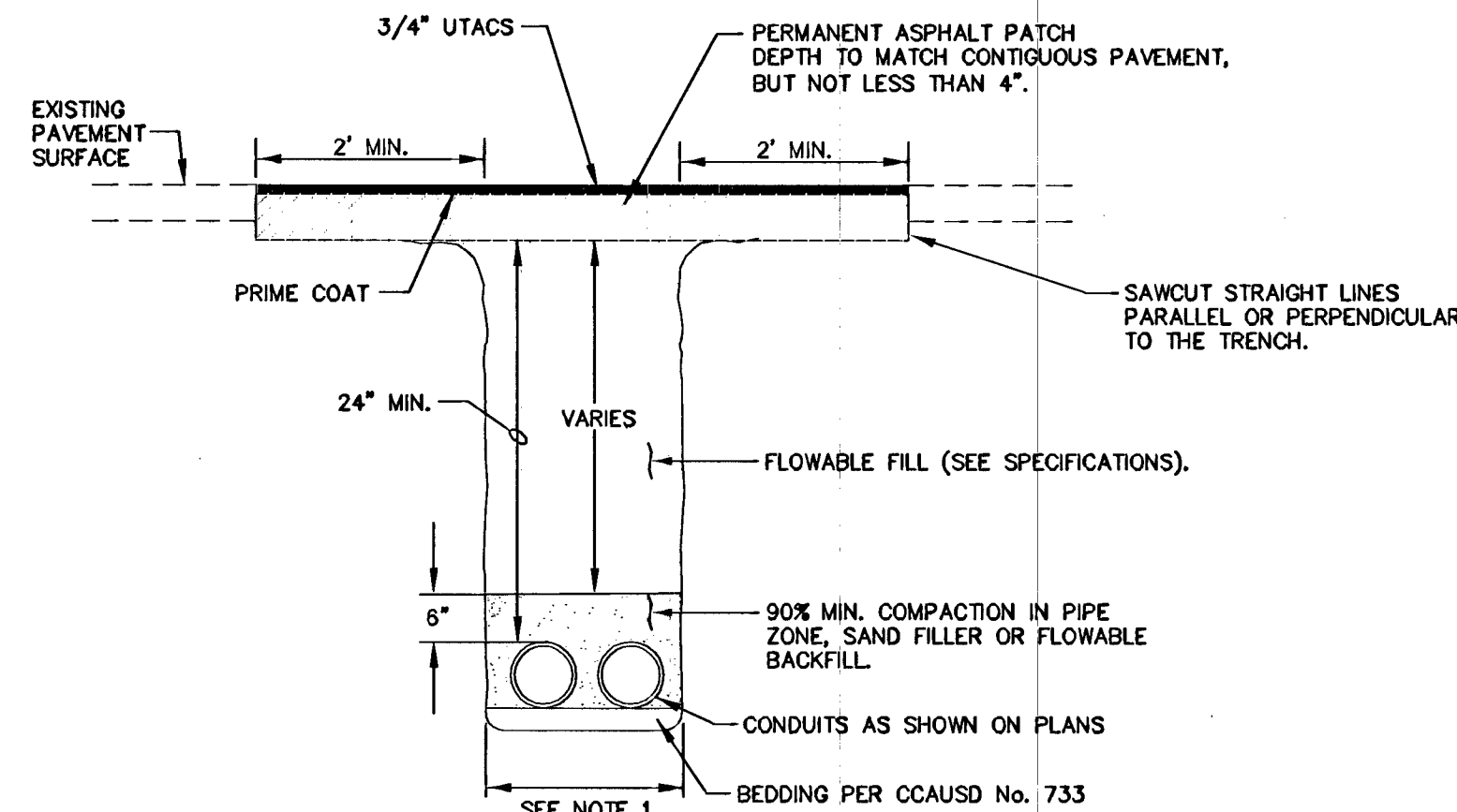


CITY OF LAS VEGAS TRAFFIC SIGNAL NOTES

- ALL WORK PERFORMED ON ANY TRAFFIC SIGNAL COMPONENT MUST BE UNDER THE DIRECT ON-SITE SUPERVISION OF AN IMSA CERTIFIED TECHNICIAN. THE LEVEL OF CERTIFICATION REQUIRED SHALL BE LEVEL II.
- 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 1-800-227-2800
STREETLIGHTS 1-702-229-6331
F.A.S.T. 1-702-432-5300
- ALL TRAFFIC SIGNAL INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS AND SPECIAL PROVISIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, VOLUMES I AND II, ADOPTED BY THE REGIONAL TRANSPORTATION COMMISSION APRIL 8, 1992 WITH ALL SUBSEQUENT REVISIONS.
- SERVICE SHALL HAVE ONE 60 AMP SINGLE POLE BREAKER FOR SIGNAL, AND ONE 40 AMP SINGLE POLE BREAKERS FOR STREET LIGHTS. SERVICE SHALL BE 200 AMP PADMOUNT.
- LINE SIDE OF METER TO BE WIRED WITH THREE #5/0 AWG THW, LOAD SIDE SHALL BE WIRED WITH FOUR #4 AWG THW (2 BLACK, 2 WHITE) AND ONE #8 AWG THW (GREEN).
- LUMINAIRES ON ALL SIGNAL POLES SHALL BE 400 WATT HIGH PRESSURE SODIUM CUTOFF (E.E. MAQOA) WITH MC-111 DISTRIBUTION. EACH LUMINAIRE SHALL HAVE AN INDIVIDUAL 1000 WATT P.E. CONTROL. FOR LUMINAIRES THERE SHALL BE 2(TWO)-#4 AWG THW CONDUCTORS FROM THE SERVICE TO THE T100. IN THE T100, THE #4 AWG THW CONDUCTORS SHALL BRANCH OFF INTO #10 AWG THW CONDUCTORS INDIVIDUALLY FUSED WITH 10 AMP FUSES. THERE SHALL BE NO SPLICES BETWEEN THE T100 AND LUMINAIRE FIXTURES.
- THE INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE WIRED TO THE LUMINAIRES PHOTO CELL FOR CONTROL WITH #10 AWG THW COPPER STRANDED WIRE (TYPICAL). IN THE EVENT THERE IS NO LUMINAIRE ON THE TRAFFIC SIGNAL POLE, THE 1000 WATT P.E. CONTROL SHALL BE MOUNTED ON THE POLE CAP.
- CHECK CONDUIT AND CABLE SCHEDULE FOR CONDUIT, CABLE, AND WIRE SIZE. VERIFY ALL EXISTING CONDUIT RUNS.
- ALL PULL BOXES SHALL BE IN ACCORDANCE WITH UNIFORM STANDARD DRAWINGS NO. 705, NO. 706, AND NO. 707.
- TRAFFIC SIGNAL CABLE SHALL BE 15 OR 25 CONDUCTOR #14 AWG SOLID (TYPICAL) CABLE AND SHALL CONFORM TO IMSA SPEC. NO. 20-1.
- PEDESTRIAN PUSH BUTTONS SHALL BE AUDIBLE TACTILE AND COMPLY WITH A.P.S. STANDARDS OR MUTCD IN ACCORDANCE WITH CITY OF LAS VEGAS SPECIAL PROVISIONS AND SECTION 623 OF THE CCA USS. PUSH BUTTON SIGNS SHALL BE R10-34 PER MUTCD, 2009 EDITION, WITH FULL MOUNTING BRACKETS, AND AS MODIFIED BY THE MANUFACTURER TO FIT ON A 9"x12" SIGN. ALL PUSH BUTTONS TO BE MOUNTED 42" ABOVE SIDEWALK. THE MAXIMUM HORIZONTAL REACH DISTANCE IS TO BE 24". SIDEWALK RAMPS WILL BE ACCORDING TO U.S.D. No. 235 (1-4) LATEST EDITION.
- 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 ENGINEER.
- CONTRACTOR SHALL POTHOLE SIGNAL POLE LOCATIONS PRIOR TO ORDERING OF POLES AND MAST ARMS.
- FOR EQUIPMENT IDENTIFIED ON PLANS AS CENTENNIAL STANDARD:
SIGNAL POLES (BOTH WITH AND WITHOUT MAST ARMS), MAST ARMS AND LUMINAIRE ARMS SHALL BE STEEL POLES AND NOT GALVANIZED IN CONFORMANCE TO CITY OF LAS VEGAS SPECIAL PROVISIONS TO SECTION 623 T.02.09 OF THE CCA USS. THE POLES SHALL BE FACTORY PRIMED WITH AMERON AMERCOAT 370 AND FACTORY SPRAY PAINTED WITH AMERON AMERSHIELD PAINT OR APPROVED EQUAL. THE POLES SHALL BE PREPARED AND PAINTED PER MANUFACTURER'S SPECIFICATIONS. THE FOLLOWING ELEMENTS OF THE TRAFFIC SIGNAL SYSTEM SHALL BE COLORED RAL 6012 BLACK GREEN* COLOR CONSISTENT WITH THE CITY OF LAS VEGAS DOWNTOWN CENTENNIAL PLAN: TRAFFIC SIGNAL POLE; TRAFFIC SIGNAL MAST ARM; TRAFFIC LUMINAIRE ARM; TRAFFIC SIGNAL LUMINAIRE HEAD (REFERENCE SUBSECTION 623 G.02.07 LUMINAIRE ON SIGNAL POLES). THE TRAFFIC SIGNAL MAST ARM SHALL BE FACTORY PRIMED WITH AMERON AMERCOAT 370 AND SHALL BE DELIVERED WITH NO TENONS MOUNTED TO THE MAST ARM. AFTER THE TRAFFIC SIGNAL POLE FOUNDATION IS CONSTRUCTED, THE TENONS SHALL BE FABRICATED IN THE FIELD AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ALL WELDING SHALL CONFORM TO AWS D 2.0, SPECIFICATION FOR WELDED HIGHWAY AND RAILWAY BRIDGES, AND TO ANY ADDITIONAL REQUIREMENTS OF SECTION 623 T.02.09 OF THE SPECIFICATIONS. ALL WELDERS MUST BE CERTIFIED BY THE AMERICAN WELDING SOCIETY OR SIMILAR ORGANIZATION IN THE WELDING OF STEEL AND GALVANIZED STEEL. AFTER INSTALLATION OF THE TENONS, THE MAST ARM SHALL BE SHOP SPRAY PAINTED WITH AMERON AMERSHIELD TO MATCH THE TRAFFIC SIGNAL POLE.
- ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL HAVE LIGHT EMITTING DIODE (LED) TYPE INDICATIONS, IN CONFORMANCE TO CITY OF LAS VEGAS SPECIAL PROVISIONS TO SECTION 623 OF THE CCA USS. ALL PEDESTRIAN SIGNAL FACES SHALL PROVIDE "WALKING PERSON", "HAND", AND "COUNTDOWN" MESSAGES AS PROVIDED BY DURALIGHT MODEL #40M-400-VEIL OR DIALIGHT MODEL #430-6479-001X, OR APPROVED EQUAL (MUST BE ETL COMPLIANT).
- OPTICAL PREEMPTION UNITS WILL BE GLOBAL TRAFFIC TECHNOLOGIES (ENCODING CAPABLE), MODEL 764 PHASE SELECTOR INSTALLED IN A MODEL 760 CARD RACK. OPTICAL SENSORS WILL BE MODEL 721 AND WILL BE INTERFACED TO THE TRAFFIC SIGNAL CONTROLLER CABINET WITH M-138 CABLE.
- IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY CONSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE CITY.
- INTERCONNECT CABLE SHALL BE AS SHOWN IN THE WIRE SCHEDULE.

REVISED 8/07/11

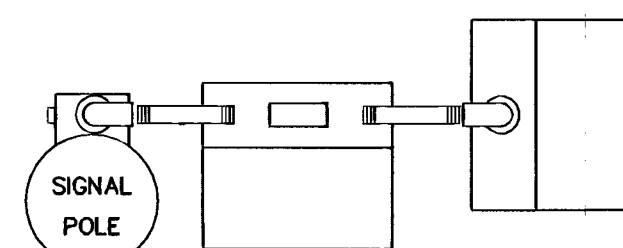


- NOTES:
- 36" MAX WIDTH, 6" MIN WIDTH
 - CONDUIT COUPLINGS SHALL BE STAGGERED.
 - SEE CCAUSD No. 733 FOR ADDITIONAL TRENCH DETAILS.

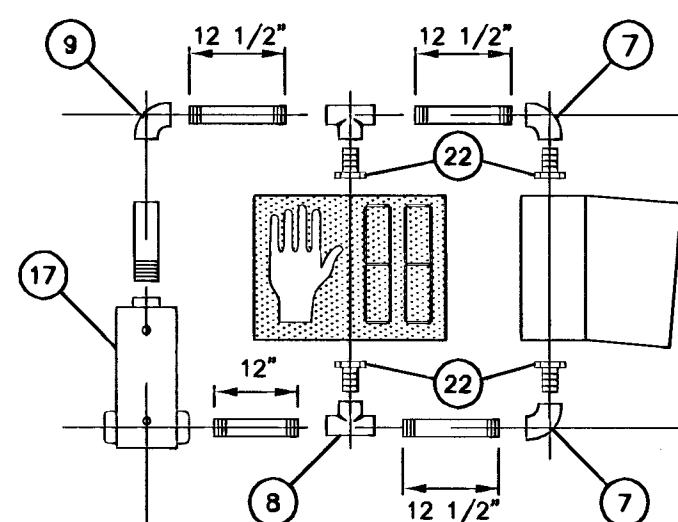
CONDUIT TRENCH IN PAVEMENT

MINIMUM 6" TRENCH

N.T.S.



TOP VIEW



- NOTES:
- FOR ITEMIZED PARTS, SEE CCAUSD No. 845.
 - THE HAND SYMBOL (DON'T WALK) IS PORTLAND ORANGE AND HUMAN SYMBOL (WALK) IS LUNAR WHITE.
 - DETAIL SHOWN FOR CONTRACTOR REFERENCE. CONTRACTOR INSTALLATION AT SOME LOCATION MAY REQUIRE A DIFFERENT LAYOUT OF PARTS.

W-4T

PEDESTRIAN SIGNAL ASSEMBLY

N.T.S.



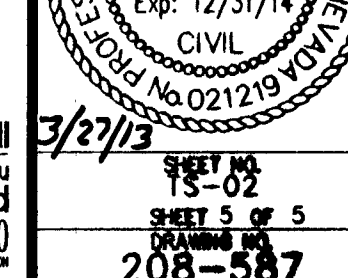
- NOTE: SIGN SCHEDULE PER CLV PLANNING DEPARTMENT AND TFO*
DIRECTIONS, BLOCK#, SUFFIX 5" HWY "D"
STREET NAME: 12" UPPER AND 9" LOWER CASE HWY "D" OR "C" ONLY IF NECESSARY
BORDER REQUIRED
3M GREEN ON WHITE DIAMOND GRADE SHEETING
SIGN TO BE DOUBLE SIDED

STREET NAME SIGN DETAIL

CLV MODIFIED

N.T.S.

DATE REVISIONS	DATE JANUARY 2013 CHECKED BY: RNC	SCALE (A): N/A DESIGNED BY: RNC	SCALE (B): N/A DRAWN BY: RNC	PROJECT: BRIDGER / 1ST STREET TRAFFIC SIGNAL	TRAFFIC SIGNAL NOTES AND DETAIL SHEET	ENGINEER SHANNON R. AHARTZ Exp: 12/31/14 CIVIL No. 021219	DEPARTMENT OF PUBLIC WORKS
Kimley-Horn and Associates, Inc. Engineering, Planning, and Environmental Consultants 6671 Las Vegas Boulevard, Suite 350, Las Vegas, NV 89119 PH 702/734-5666							



BID# 13.41180