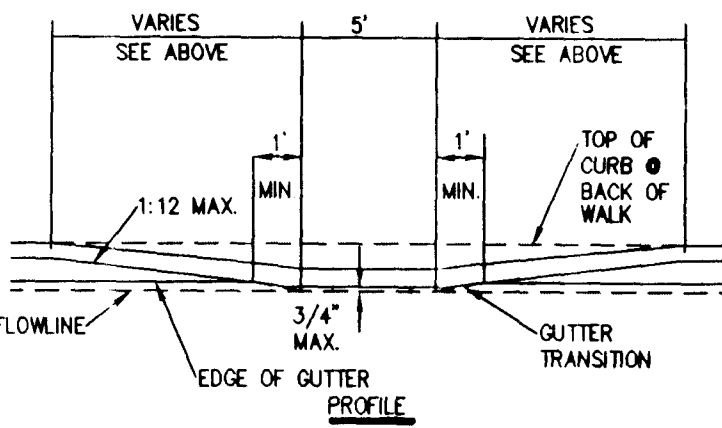


GRADE (%)	"A" (FT)	"B" (FT)
-6 TO -5.01	4.5	21.5
-5 TO -4.01	4.5	15.0
-4 TO -3.01	4.5	12.0
-3 TO -2.01	4.5	9.5
-2 TO -1	8.0	8.0
2.01 TO 3	9.5	4.5
3.01 TO 4	12.0	4.5
4.01 TO 5	15.0	4.5
5.01 TO 6	21.5	4.5

TABLE 1 TRANSITION LENGTHS FOR 1:12 SIDE SLOPES

GRADE (%)	"A" (FT)	"B" (FT)
-6 TO -5.01	4.0	12.5
-5 TO -4.01	4.0	10.0
-4 TO -3.01	4.0	8.5
-3 TO -2.01	4.0	8.5
-2 TO -1	6.5	6.5
2.01 TO 3	7.5	4.0
3.01 TO 4	8.5	4.0
4.01 TO 5	10.0	4.0
5.01 TO 6	12.5	4.0

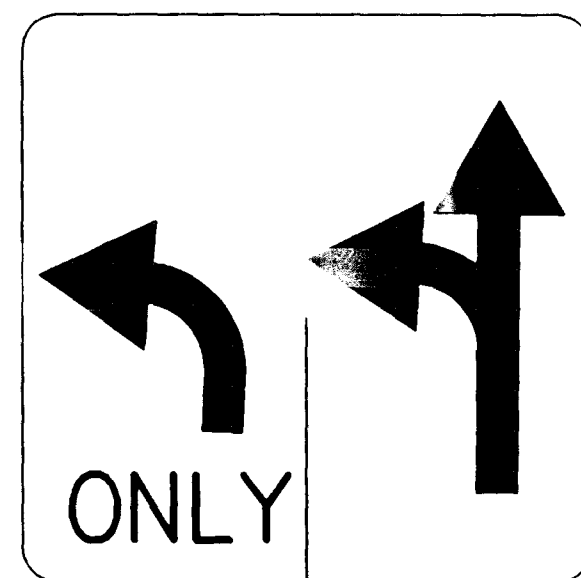
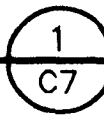
TABLE 1 TRANSITION LENGTHS FOR 1:12 SIDE SLOPES



NOTES:

- SIDEWALK RAMP WITHIN CURB RETURN SHALL BE LOCATED AT THE MIDPOINT OF CURB RETURN UNLESS OTHERWISE APPROVED.
- SIDEWALK RAMP OUTSIDE OF THE CURB RETURN SHALL BE LOCATED ADJACENT TO THE RETURN UNLESS OTHERWISE APPROVED.
- RAMP SHALL BE CONSTRUCTED WITH A ROUGH BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
- WHEN CONSTRUCTING RAMP WHERE CURB AND GUTTER EXISTS, COMPLETELY REMOVE INTERFERING PORTIONS OF EXISTING CURB AND GUTTER.
- DETECTABLE WARNING CONSISTING OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 IN., A HEIGHT OF NOMINAL 0.2 IN. AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 IN. AND CONTRASTING VISUALLY WITH ADJOINING SURFACES MAY BE PLACED ON RAMP EXTENDING THE FULL WIDTH AND DEPTH OF THE RAMP.
- CURB MAY BE PLACED AND IS PREFERRED BEHIND BACK OF WALK IF SUFFICIENT RIGHT-OF-WAY OR EASEMENTS EXIST AND AS APPROVED BY ENGINEER.

SIDEWALK RAMP - CASE I
CLARK COUNTY STD. DWG. NO. 235

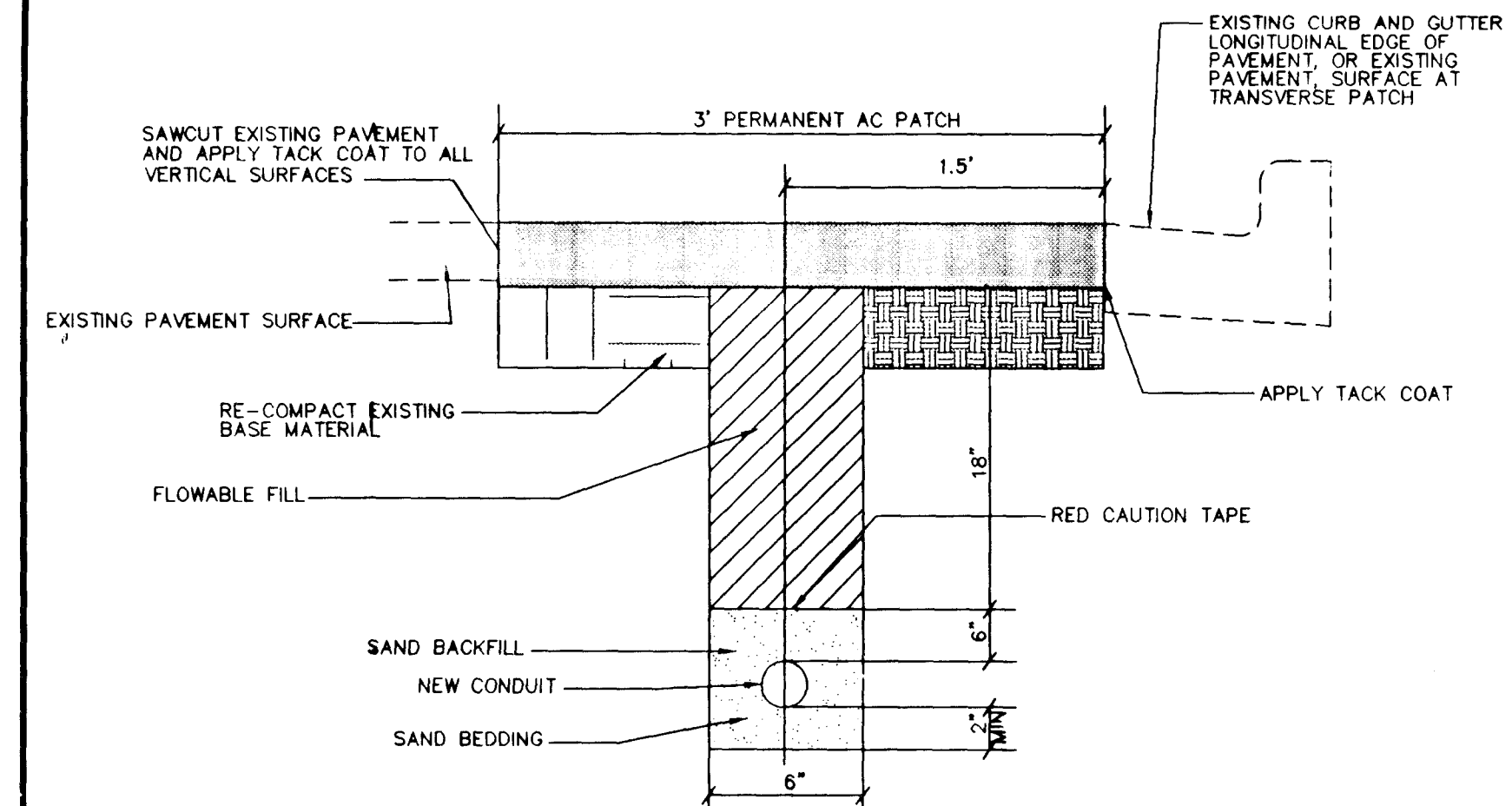


R3-8 (30x30)

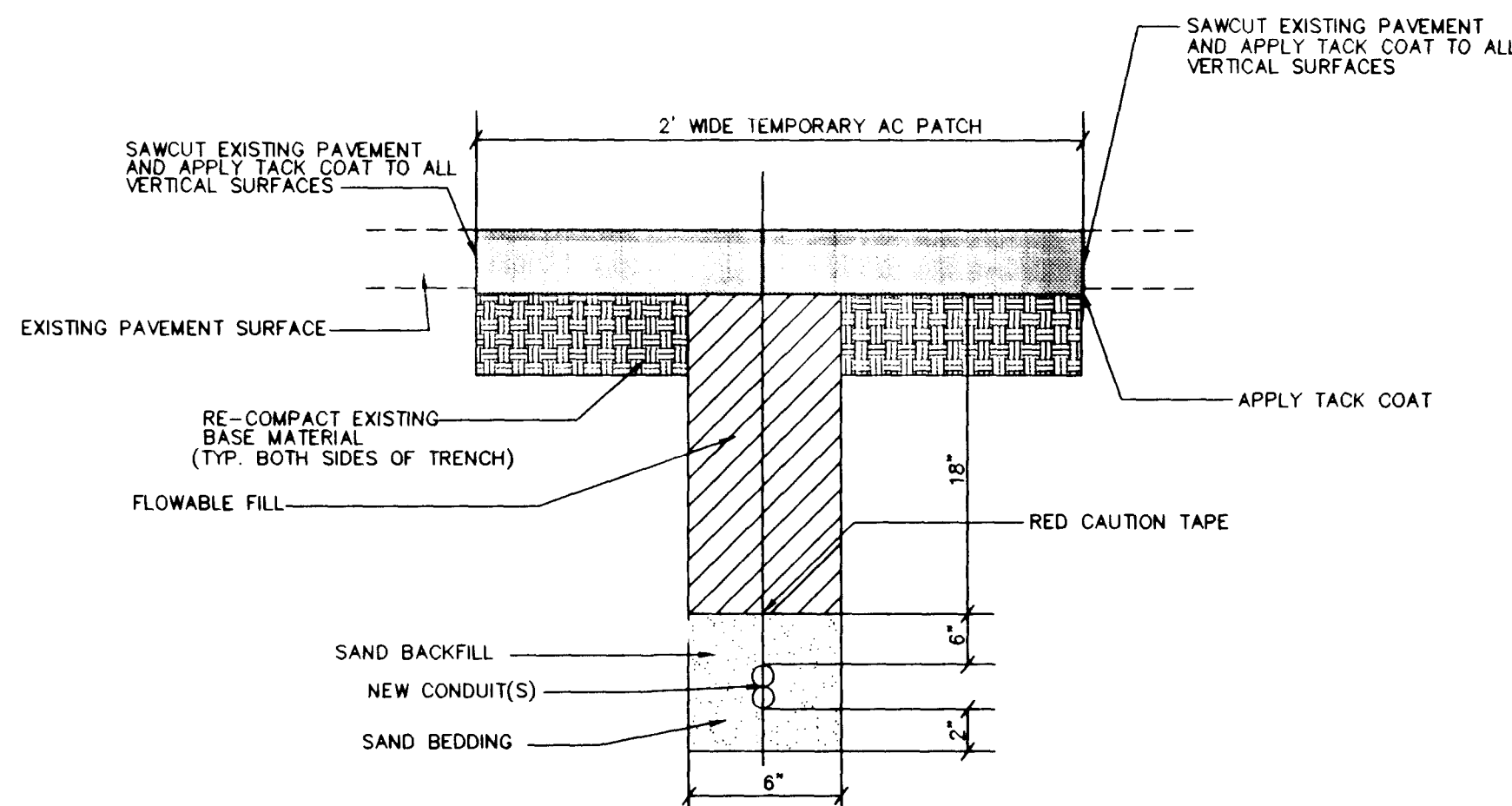


GENERAL TRAFFIC SIGNAL AND INTERCONNECT NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL EXISTING UTILITIES. THE FOLLOWING UNDERGROUND UTILITIES MAY BE LOCATED IN THE PROJECT AREA: STREETLIGHTING, TRAFFIC SIGNALS, STORM DRAIN, INTERCONNECT CABLE, WATER, SEWER, ELECTRICAL, GAS, AND CABLE TELEVISION. CALL BEFORE YOU DIG AT 1-800-227-2600 AT LEAST 24 HOURS PRIOR TO WORKING IN THE AREA. CALLING CALL BEFORE YOU DIG DOES NOT RELIEVE THE CONTRACTOR OF ANY LIABILITY FOR DAMAGED UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES TO VERIFY, IN THE FIELD, THE LOCATION OF THEIR INSTALLATIONS 72 HOURS PRIOR TO CONSTRUCTION.
- ALL TRAFFIC SIGNAL INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS 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.
- ALL SIGNAL AND LUMINAIRE POLES SHALL BE TYPE XX AND CONFORM TO C.L.V. UNIFORM STANDARD DRAWING #404.406 SHEETS 1 THROUGH 5.
- SERVICE SHALL HAVE 1-60 AMP SINGLE POLE BREAKER FOR SIGNAL, AND 1-40 AMP SINGLE POLE BREAKER FOR STREET LIGHTS. SERVICE SHALL BE A 200 AMP PADMOUNT.
- ALL LUMINAIRES SHALL BE 400 WATT HIGH PRESSURE SODIUM CUTOFF (G.E.M400A) WITH MC-111 DISTRIBUTION. EACH LUMINAIRE SHALL HAVE AN INDIVIDUAL 1000 WATT P.E. CONTROL AND BUILT IN BALLAST (120 V.A.C.) FOR LUMINAIRES THERE SHALL BE A #4 AWG THW CONDUCTOR FROM THE SERVICE TO THE CABINET. IN THE CABINET THE #4 AWG CONDUCTOR SHALL BRANCH OFF INTO 4 EACH #10 AWG THW CONDUCTORS INDIVIDUALLY FUSED WITH 10 AMP FUSES. THERE SHALL BE NO SPLICES BETWEEN THE CABINET AND THE LUMINAIRE FIXTURE. THE NORTHEAST AND SOUTHWEST LUMINAIRES SHALL BE WIRED TO ONE 40 AMP SINGLE POLE BREAKER, AND THE SOUTHEAST AND NORTHWEST LUMINAIRES SHALL BE WIRED TO THE SECOND 40 AMP SINGLE POLE BREAKER.
- INSTALL #6 CONTROLLER IN TYPE "R" ACCORDING TO U.S.S. SECTION 623. CABINET SHALL BE PAINTED WHITE INSIDE AND OUT.
- THOSE POLES, AS SPECIFIED ON THE TRAFFIC SIGNAL PLANS, SHALL HAVE INTERNALLY ILLUMINATED STREET NAME SIGNS INSTALLED. THE SIGNS SHALL BE WIRED TO THE LUMINAIRE PHOTO CELL FOR CONTROL WITH #10 A.W.G. COPPER STRANDED WIRE (TYPICAL).
- ALL SIGNAL LENSES SHALL BE 12" GLASS.
- INSTALL VIDEO DETECTION INTERFACE CAMERAS MOUNTED ON THE HIGH POINT OF THE LUMINAIRE ARM. EITHER PEEKVISION VIDEOTRAX 900 OR ECONOLITE AUTOSCOPE 2004 VIDEO SYSTEMS ARE ACCEPTABLE. B281 COAXIAL CABLE AND 3-#14 AWG S/J CORD MUST BE RUN FROM THE CABINET TO EACH POLE. ONLY BNC CONNECTIONS ARE ACCEPTED FOR TERMINATION.
- 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 CITY ENGINEER.
- ALL NECESSARY AMPLIFIER UNITS, MODULES, LIGHT CONTROL UNITS, SWITCHES, FLASHERS, SIGNAL EQUIPMENT, ETC. SHALL BE WIRED IN THE CABINET TO ACTUATE THE PHASING OPERATION AS SHOWN ON THE INDIVIDUAL SIGNAL PLANS.
- ALL CONDUCTORS AND THEIR TERMINATIONS SHALL BE CLEARLY MARKED.
- UNLESS SHOWN OTHERWISE, NO. 5 PULL BOXES SHALL BE USED AT LOCATIONS WHERE CONDUIT RUNS CONTAIN TRAFFIC SIGNAL CONDUCTORS. NO. 3-1/2 PULLBOXES MAY BE USED AT OTHER LOCATIONS.
- ALL EXISTING LIGHT POLES AS SHOWN ON PLANS, SHALL BE REMOVED AND ALONG WITH ANY MATERIALS SALVAGED FROM EXISTING LIGHTING SYSTEMS SHALL BE PROTECTED AND DELIVERED TO ELECTRICAL SERVICES AT 3104 E. BONANZA DURING RECEIVING HOURS (7AM - 2PM).
- CHECK CONDUIT AND CABLE SCHEDULE FOR CONDUIT, CABLE AND WIRE SIZE.
- LINE SIDE OF METER TO BE WIRED WITH THREE 2/0 A.W.G. LOAD SIDE SHALL BE WIRED WITH THREE #4 A.W.G. (2 BLACK, 1 WHITE) AND ONE #8 A.W.G. (GREEN).
- SIGNAL CABLE SHALL BE A 15 AND 25 CONDUCTOR #14 A.W.G. SOLID (TYPICAL) CABLE AND SHALL CONFORM TO I.M.S.A. SPEC. NO. 20-1. ALL SIGNAL DETECTION SHALL BE VIDEO.
- NEW INTERCONNECT SHALL BE 2" CONDUIT WITH NUMBER 5 PULL BOXES SPACED APPROXIMATELY 50' APART. CABLE SHALL BE 12 PAIR OF #22 A.W.G. SHIELD REA SPECIFICATION P.E. 39.
- POWER FOR SIGNAL CONTROLLER AND SIGNAL LAMP OPERATION IS PRESENTLY AVAILABLE AT THE SIGNAL LOCATION. THE CONTRACTOR SHALL CONTACT THE NEVADA POWER COMPANY FOR THE EXACT LOCATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE POWER IN COOPERATION WITH THE NEVADA POWER COMPANY.
- TRAFFIC SIGNAL CABLE AND WIRING SHALL BE INSTALLED TERMINAL TO TERMINAL. NO SPLICING ALLOWED. INTERCONNECT CABLE SHALL BE INSTALLED CABINET TO CABINET. ABOVE GROUND SPLICING WILL BE ALLOWED IN SPLICE CABINETS. (TESCO #2200NR TYPE 66 TERMINAL BLOCK FOR 22 AVERAGE GAUGE WIRE - 25 PAIR, OR EQUIVALENT).
- ALL POLES AND CONTROLLERS MUST BE PLACED TO ALLOW A CLEAR PASSAGE OF AT LEAST 36" ON THE SIDEWALK.
- CONTRACTOR SHALL SUBMIT PRE-CONSTRUCTION LAYOUT DRAWINGS OF ILLUMINATED STREET NAME SIGN FACE TO THE CITY OF LAS VEGAS FOR APPROVAL. ALL POLES AND CONTROLLERS MUST BE PLACED TO ALLOW A CLEAR PASSAGE.
- ALL PEDESTRIAN PUSH BUTTON SIGNS SHALL BE 9" X 12" WITH FULL MOUNTING BRACKETS. ALL PUSH BUTTONS SHALL BE MOUNTED BETWEEN 36 IN. MIN. AND 42 IN. MAX. ABOVE THE SIDEWALK. THE MAXIMUM HORIZONTAL REACH DISTANCE AT THE 42 INCH HEIGHT IS TO BE 24 INCHES. PUSH BUTTONS ARE TO BE ADA COMPATIBLE PER SUPPLEMENTAL SPECIFICATIONS 823 T.02.12. SIDEWALK RAMP WILL BE ACCORDING TO USD NO. 235 (1 THROUGH 4) DATED 6-3-98.
- ALL PULLBOXES SHALL BE IN ACCORDANCE WITH UNIFORM STANDARD DRAWINGS NO. 404.110, NO. 404.120, AND NO. 404.130.
- 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 TO THE SATISFACTION OF THE CITY, AT THE CONTRACTOR'S EXPENSE.

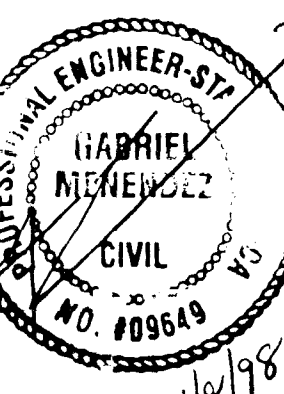


LONGITUDINAL CONDUIT TRENCH DETAIL FOR INTERCONNECT NTS



TYPICAL TRANSVERSE CONDUIT TRENCH DETAIL NTS

MARTIN & MARTIN
CIVIL ENGINEERS
1909 SOUTH JONES BLVD.
SUITE B
LAS VEGAS, NEVADA 89102
PHONE (702) 248-8000



SIGNALIZATION PLAN
DETAIL AND NOTE SHEET
BID NUMBER 98.1730.18

no.	description of revisions	date	name

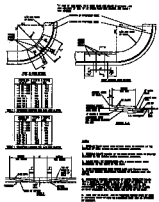
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design by	D. SWANSON
drawn by	T. ORTIZ
checked by	G. MENENDEZ P.E.

sheet number

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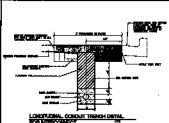
SEWER PUMP - CASE
CLARK COUNTY WFLA DIST. NO. 10077

GENERAL NOTES AND SPECIFICATIONS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
2. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE DISTRICT ENGINEER.
3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES.
5. THE CONTRACTOR SHALL MAINTAIN THE SURFACE OF THE ROAD AND ADJACENT AREAS IN GOOD ORDER AT ALL TIMES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL DEBRIS AND EXCESS MATERIAL.
7. THE CONTRACTOR SHALL MAINTAIN ADEQUATE RECORDS OF ALL WORK DONE AND MATERIALS USED.
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LONGITUDINAL CONCRETE TRENCH DETAIL FOR SEWER PIPE



TYPICAL TRANSVERSE CONCRETE TRENCH DETAIL



NO. 4 DISTRICT

AS BUILT

CLARK COUNTY
DISTRICT NO. 4
ENGINEER
MAY 1968



REGISTRATION PLAN
DETAIL AND NOTE SHEET
AND NUMBER MATRICES

NO.	DATE	REVISION

NO. 4 DISTRICT
CLARK COUNTY
DISTRICT NO. 4
ENGINEER
MAY 1968

NO. 4 DISTRICT

7 OF 7

NO. 4 DISTRICT