

- LEGEND**
- ① 2-2" CONDUIT -DB-60 BY DEVELOPER (EST. 669')
  - ② 2" RGS 36" 90° BENDS DOUBLE WRAPPED 10 MIL TAPE BY DEVELOPER (QTY 6 EA)
  - ③ PLACE INTERCEPT 200 PULL BOX (QTY 1 EA) 2'-2"x4'-0"x4'-0" WITH 2 - TRAFFIC RATED HINGED ALUMINUM, TORSION ASSISTED LIDS MARKED "TELCO", WITH GALVANIZED ADJUSTING FRAME, AND 4-18 HOLE CABLE RACKS (2 EA. SIDE) A. PULL BOX FURNISHED AND INTALLED BY DEVELOPER.
  - ④ PLACE EMBARQ 30 PULL BOX (QTY 2 EA) 17"x30"x30" WITH CONCRETE COLLAR A. PULL BOX FURNISHED AND INTALLED BY DEVELOPER.
  - ⑤ PLACE 2'x2'x3/4" BACKBOARD WITH 3/4" PLYWOOD & SOLID COPPER GROUND WIRE. BY DEVELOPER (QTY 1 EA)

**IMPORTANT NOTICE!**  
SERVICE CANNOT BE PROVIDED WITHOUT APPROVED OPEN TRENCH AND FINAL INSPECTION BY EMBARQ INSPECTOR

**DISCLAIMER NOTE:**  
UTILITY LOCATIONS SHOWN ARE APPROXIMATELY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. EMBARQ ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

**APPROVED FOR CONSTRUCTION**

THIS APPROVAL IS FOR WORK IN CLV R/W OR CLV EASEMENT ONLY. OBTAINING PERMISSION OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY

*James B. [Signature]* 7/21/08  
APPROVAL DATE

**LEGEND**

- PROPOSED CONDUIT
- - - EXISTING CONDUIT
- MANHOLE
- 400 PULL BOX 3'-0" x 5'-0" x 4'-0"
- 200 PULL BOX 2'-5" x 4'-0" x 4'-0"
- 30 PULL BOX 17" x 30" x 30"
- ▽ 18 HAND HOLE 9" x 14"
- EMBARQ 100 TERMINAL CABINET 48" x 48" x 6" (100 PAIR)
- EMBARQ 50 TERMINAL CABINET 36" x 36" x 6" (25 TO 50 PAIR)
- 3/4" PLYWOOD BACKBOARD
- # 6 GROUND WIRE

P.V.C. - D.B. (DIRECT BURIAL) GRADE D.B. 60 FOR 1-1/4", 2", & 3" D.B. 100 FOR 4" 90° SWEEPS - SCHEDULE 40 (TYPICAL) OR RIGID GALVANIZED STEEL WITH DOUBLE-WRAPPED 10 MIL CORROSION PROTECTION TAPE. (AS SHOWN)

MANHOLE (SEE DRAWING FOR SIZE)

TELEPHONE PULL BOX WITH TWO (2) HINGED ALUMINUM TORSION ASSISTED TRAFFIC RATED LIDS MARKED "TELCO", GALVANIZED STEEL ADJUSTING FRAME, AND 4-18 HOLE CABLE RACKS (2 EA. SIDE).

UNDERWRITER LABORATORY APPROVED, RAIN-TIGHT WITH A NON-LOCKING, SELF-HINGED DOOR, EQUIPPED INSIDE WITH A 3/4" PLYWOOD BACKBOARD & SEALER. BACKBOARDS SMALLER THAN 4' x 8' SECURED WITH RECESSED MOUNTING HARDWARE AND 2 # 6 GROUND WIRE CONNECTED TO AN APPROVED GROUND SOURCE (SEE GROUND NOTE BELOW).

TELEPHONE TERMINAL BACKBOARD (T.T.B.) - TREATED WITH FIRE RETARDANT PAINT OR SEALER. BACKBOARDS SMALLER THAN 4' x 8' (ie. 2' x 2' & 4' x 4') SHOULD BE MOUNTED 40" ABOVE THE FLOOR.

CONNECT TO THE APPROVED COMMUNICATIONS GROUNDING SOURCE AS DETERMINED BY THE ELECTRICAL ENGINEER FOR THIS BUILDING OR DEVELOPMENT.

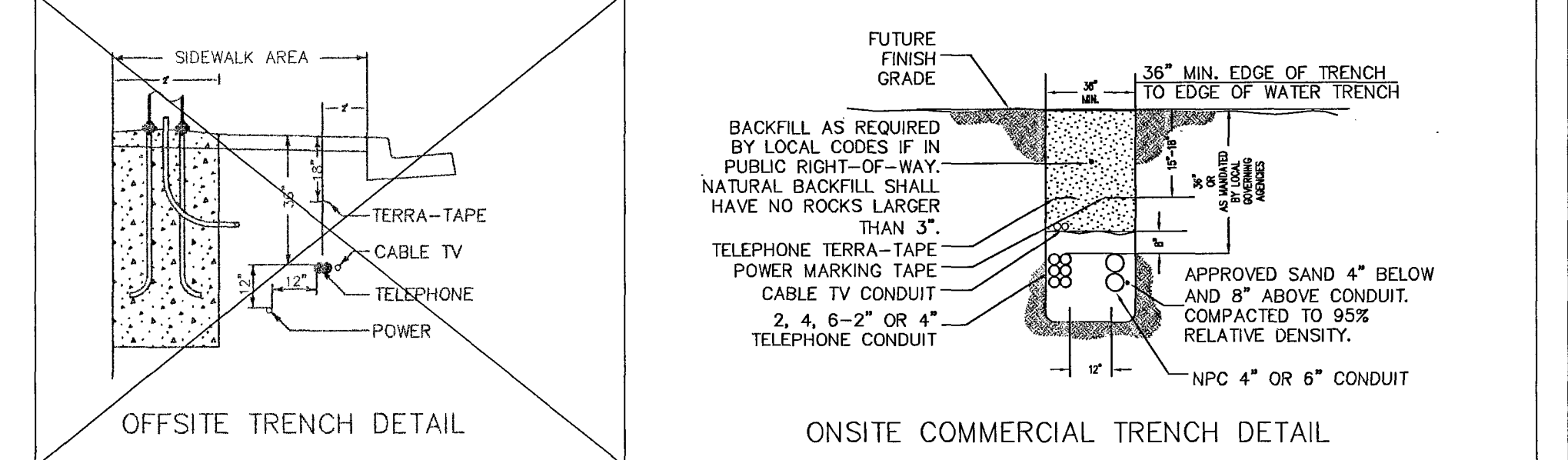
**VICINITY MAP**  
N.T.S.  
T19S R60E SEC. 29

**RISER DETAIL**  
(TYPICAL)

SELECT BACKFILL:  
FINISHED GRADE  
EMBARK MARKING TAPE  
PVC CONDUIT  
TRENCH SAND OR CONCRETE - AS SPECIFIED PER JOB DRAWING.

EMBARK owned conduit:  
2"-2" SCH. 40 RIGID GALVANIZED STEEL 36" riser bands with 1/2" lapped 10 mil corrosion protective tape of 2-2" Sch. 40 PVC conduit. (See plan for type)

- CONSTRUCTION NOTES**
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST ISSUE OF THE EMBARQ UNDERGROUND SPECIFICATIONS.
  - ALL CONDUIT, TRENCHING, BACKFILLING AND SUBSTRUCTURES ARE TO BE PROVIDED BY THE DEVELOPER AND CONFORM WITH EMBARQ STANDARDS UNLESS OTHERWISE SPECIFIED.
  - TRENCHING AND TELEPHONE SUBSTRUCTURES ARE TO BE PLACED IN THE SIDEWALK AREA WHENEVER POSSIBLE. ALL TRENCHING WILL BE OF A MINIMUM DEPTH TO MAINTAIN 36" OF COVER OVER UNDERGROUND TELEPHONE FACILITIES AND 12" MINIMUM SEPARATION FROM FOREIGN UTILITIES. NEW AND EXISTING BOXES WILL BE ESTABLISHED TO FINISHED GRADE.
  - ALL PULL BOXES (2'-6" x 4'-0" AND LARGER) AND MANHOLES ARE TO BE GROUNDING WITH A 3/8" x 1/16" TINNED SOFT COPPER BONDING RIBBON PLACED VERTICALLY AROUND THE BOTTOM OF THE BOX WITH 3" ENDS STUBBED INSIDE.
  - WHEN EXISTING TELEPHONE FACILITIES (ie. POLES, MANHOLES, PULL BOXES, CONDUIT, TERMINALS, etc.) ARE AFFECTED BY IMPROVEMENTS (REQUIRED BY LOCAL ORDINANCE SUCH AS STREET LIGHTS, SIDEWALK, GUTTERS, etc.) THE DEVELOPER SHALL BE RESPONSIBLE FOR THE ADJUSTMENT OF THESE FACILITIES AS REQUIRED.
  - PLYWOOD BACKBOARDS ARE TO BE TREATED WITH FIRE RETARDANT MATERIAL, PAINT, OR SEALER.
  - THE CONTRACTOR SHALL PROVIDE AND INSTALL A MEASURING TAPE CONSISTING OF A WATER PROOF, 400 POUND TENSILE STRENGTH, MARKED IN ONE FOOT OR LESS INCREMENTS IN AT LEAST ONE DUCT OF ALL CONDUIT SECTIONS. ALL OTHER DUCTS IN A MULTIPLE DUCT SYSTEM WILL HAVE A 3/32" INCH JET LINE PULL STRING WITH 400 POUND TENSILE STRENGTH.
  - THE CONTRACTOR SHALL PROVE AND MANDREL ALL CONDUIT AFTER BACKFILLING WHILE AN EMBARQ INSPECTOR IS PRESENT. MANDREL SIZE IS TO BE 1/4" SMALLER THAN THE INSIDE DIAMETER OF THE CONDUIT.
  - IN ORDER TO INSURE ADEQUATE FACILITIES ARE PROVIDED FOR THIS PROJECT, IT IS IMPERATIVE THAT THE CONDUIT RECOMMENDATION NOT BE CHANGED WITHOUT EMBARQ OUTSIDE PLANT ENGINEERING APPROVAL.
  - CONCRETE ENCASEMENT SHALL CONSIST OF 3/4" AGGREGATE 6 SACKS, TYPE V, PORTLAND CEMENT CONCRETE. THE ENCASEMENT SHALL BE A MINIMUM OF 2" BETWEEN THE CONDUIT AND A MINIMUM OF 3" ON THE TOP, BOTTOM AND SIDES OF THE DUCT BANK.
  - ALL TERMINALS, BACKBOARDS, CABINETS, ETC., SHALL BE EQUIPPED WITH A #6 GAUGE GROUND WIRE, RUN TO AN APPROVED GROUND SOURCE.
  - A POLYETHYLENE DUCT PLUG SHALL BE INSTALLED IN ALL CONDUIT WHERE TERMINATED OR STUBBED.
  - PROTECTIVE POSTS SHALL BE 4" RIGID STEEL PIPE, SIX FEET IN LENGTH, FILLED AND SET IN CONCRETE AT LOCATIONS SHOWN. THE TOP OF THE PROTECTIVE POST SHALL BE 36 INCHES ABOVE THE PROPOSED FINISHED GRADE AND PAINTED WITH YELLOW STREET MARKING PAINT.
  - IF EXISTING TERMINATORS ARE NOT UTILIZED TO JOIN SUBSTRUCTURES, CALL 244-7811 FOR AN EMBARQ INSPECTOR, 24 HOURS PRIOR TO PENETRATING ANY EMBARQ MANHOLE OR PULL BOX. THE ENTRANCE LOCATION IS VERY CRITICAL AND WILL BE DETERMINED AT THAT TIME. CORE DRILLING AND PROPER GROUTING IS MANDATORY. ENTERING THE SIDE OF AN EMBARQ MANHOLE OR PULL BOX IS NOT PERMITTED UNLESS APPROVED BY EMBARQ.
  - ALL TELEPHONE BOXES WILL BE REQUIRED TO HAVE AN 8" x 8" CONCRETE COLLAR POURED AROUND THE TOP PORTION OF THE BOX PER EMBARQ STANDARDS, EXCEPT WHEN BOXES ARE TO BE LOCATED IN A CONCRETE SIDEWALK AREA.
  - EMBARK WILL REQUIRE "AS-BUILT" FOOTAGES PRIOR TO ORDERING CABLE TO SERVE THIS DEVELOPMENT. THESE FOOTAGES MUST BE RECEIVED SIX WEEKS PRIOR TO SERVICE INSTALLATION DUE DATES.
  - CALL 244-7811 TO SCHEDULE EMBARQ INSPECTION 24 HOURS PRIOR TO STARTING ANY WORK.



**CONTRACTOR / DEVELOPER NOTE**

- THE DEVELOPER/CONTRACTOR SHALL CALL 244-7811 TO SCHEDULE INSPECTIONS 24 HOURS IN ADVANCE. REQUESTS RECEIVED AFTER 11:00 AM MAY NOT BE SCHEDULED FOR THE FOLLOWING WORKDAY.
- ANY MODIFICATIONS TO THE EMBARQ DESIGN MUST BE APPROVED BY THE ENGINEER.
- THESE PLANS WILL BE VALID FOR SIX MONTHS FROM DATE OF ISSUE.

<b>EASEMENT / PERMIT CERTIFICATION</b> EASEMENT / PERMIT REQUIRED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> EASEMENT / PERMIT OBTAINED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> DATE EASEMENT / PERMIT OBTAINED: _____ ROW ENGINEER SIGNATURE: _____ EMBARK EASEMENT/PERMIT NUMBER: _____ REMARKS: _____	<b>CITY OF LAS VEGAS PERMIT REQUIRED*</b> DEVELOPER/CONTRACTOR SHALL OBTAIN A CITY PERMIT BEFORE ANY EXCAVATION WORK WITHIN CITY OF LAS VEGAS RIGHT OF WAY * EMBARK INSPECTOR WILL VERIFY CITY PERMIT FOR WORK DONE WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY INSPECTOR: _____ DATE _____	OWNER/CONTACT: PETER N. MEYERHOFER, P.E. TELEPHONE: (702) 734-5666
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**EMBARQ PROPRIETARY**

CONSTRUCTION PERMIT REQUIRED BY CONTRACTOR

NO.	REVISION	ENGR. MGR.	DATE

Call before you Dig.  
DIAL 811  
UNDERGROUND SERVICE (USA)

TITLE: UNDERGROUND CONDUIT REQUIREMENT for DURANGO DR. & RILEY ST.	DESIGNER: CORREA	DATE: 24202236
PHONE: 244-1868	SCALE: 1" = 40'	SHEET NO. 1 of 1

650-100-TBL

112487

# 28772