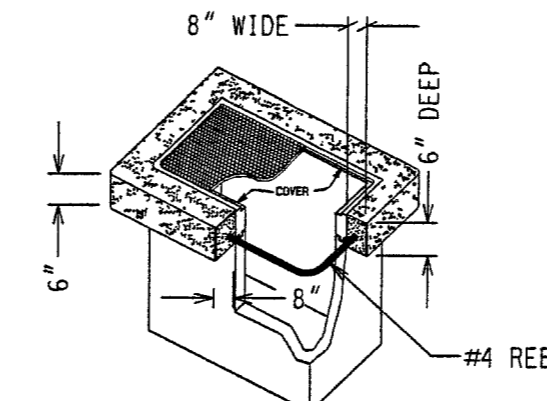


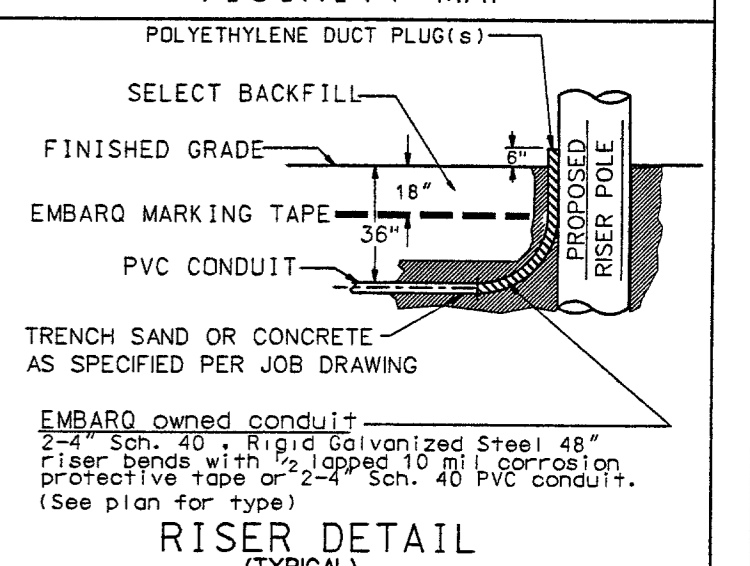
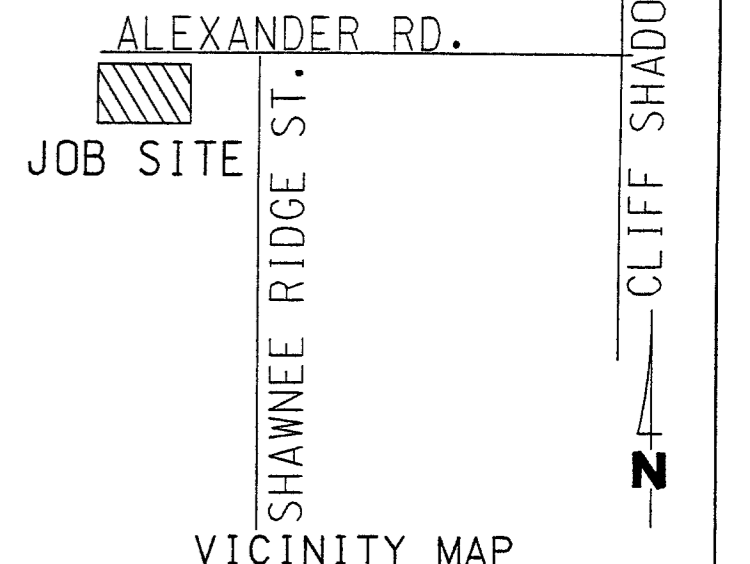
NOTE: MAINTAIN A MINIMUM OF 48" RADIUS ON ALL 4", 90° BENDS.



CONCRETE COLLAR DETAIL
ALL PULLBOXES NOT LOCATED WITHIN A CONCRETE AREA WILL REQUIRE A 8" x 6" CONCRETE LANDSCAPE COLLAR.

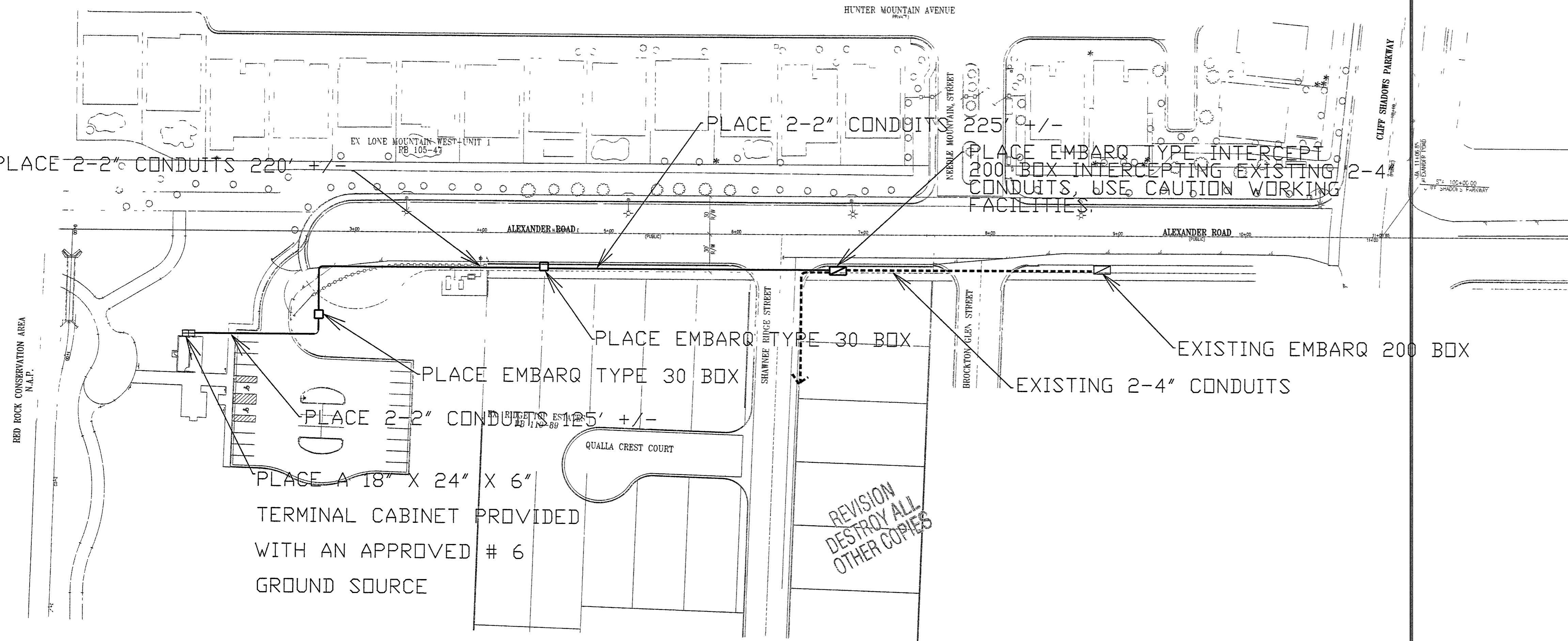
LEGEND

- CONDUIT
 - EXISTING CONDUIT
 - MANHOLE
 - PULL BOX 3'-0" x 5'-0" x 4'-0"
 - 18" HAND HOLE 9" x 14"
 - PULL BOX 2'-6" x 4'-0" x 3'-0"
 - PULL BOX 17" x 30" x 30"
 - TERMINAL CABINET 36" x 36" x 6" (100 PAIR)
 - TERMINAL CABINET 24" x 24" x 6" (50 PAIR)
 - TERMINAL CABINET 18" x 24" x 6" (25 PAIR)
 - 3/4" PLYWOOD BACKBOARD
 - 6 GROUND WIRE
- PROPOSED MANHOLE
WITH H-20-44 LOADING BOLT DOWN BEAM & PLATE TRAFFIC COVER MARKED "TELCO" AND 4 - 18 HOLE CABLE RACKS (2 EA SIDE)
- NOTE: STEEL PLATE COVERS MUST NOT BE WELDED TO BEAMS. ALL METAL PARTS MUST BE HOT DIPPED GALVANIZED OR PAINTED WITH AN APPROVED RUST INHIBITOR PRIMER AND TOP COAT.
- RAIN-TIGHT HINGED DOOR WITH A 3/4" PLYWOOD BACKBOARD UNDERWRITER LABORATORY APPROVED
- TREATED WITH FIRE RETARDANT PAINT OR SEALER BACKBOARDS SMALLER THAN 4' x 8' (6 2" x 2" & 4" x 4") SHOULD BE MOUNTED 40" ABOVE THE FLOOR
- CONNECT TO M.G.N. (MULTI-GROUNDED NEUTRAL)



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 GROUNDED WITH A 3/8" x 1/8" TINNED SOFT COPPER BONDING RIBBON PLACED VERTICALLY AROUND THE BOTTOM OF THE BOX WITH 3' ENDS STUBBED INSIDE.
- WHEN EXISTING TELEPHONE FACILITIES (i.e. 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 7/32" INCH JET LINE PULL STRING WITH 400 POUND TENSILE STRENGTH.
- THE CONTRACTOR SHALL PROVE AND MANDREL ALL CONDUIT AFTER BACKFILLING WHILE A EMBARQINSPECTOR 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 ENCASUREMENT SHALL CONSIST OF 3/4" AGGREGATE, TYPE V, PORTLAND CEMENT CONCRETE. THE ENCASUREMENT 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 A COMMON POWER M.G.N.
- 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 THIS 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.
- EMBARQ 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 AN EMBARQ INSPECTION 48 HOURS PRIOR TO STARTING ANY WORK.



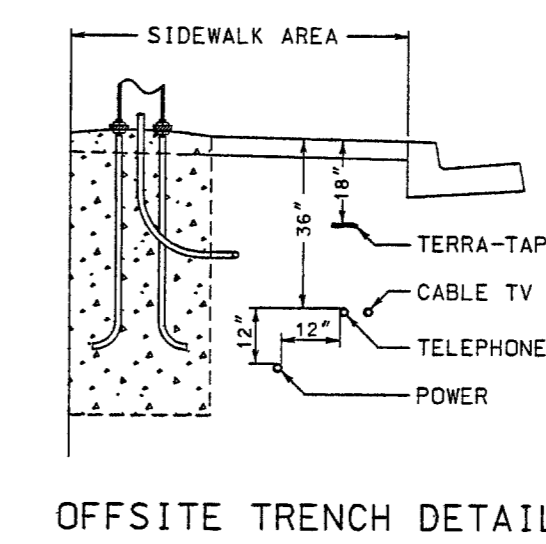
RED BOX CONSERVATION AREA N.A.P.

PLACE A 18" X 24" X 6" TERMINAL CABINET PROVIDED WITH AN APPROVED # 6 GROUND SOURCE

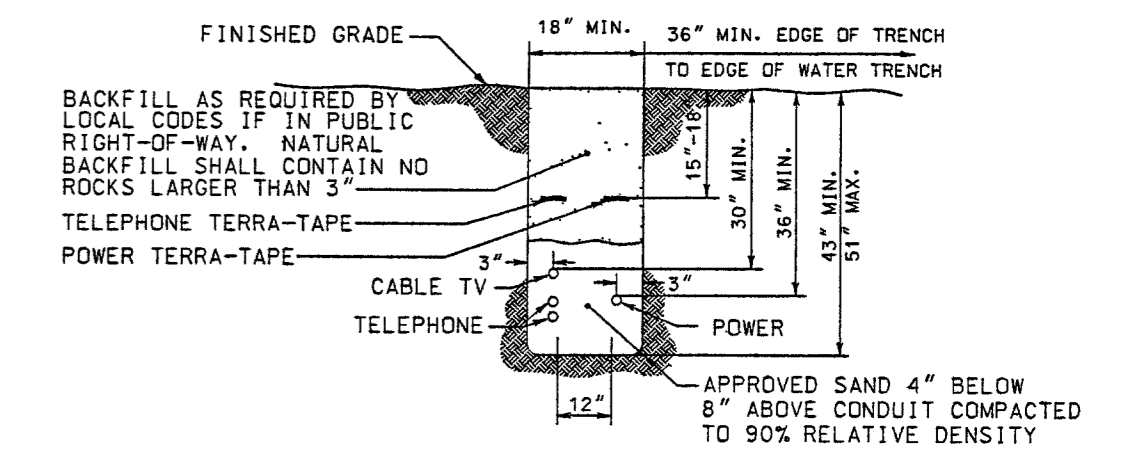
REVISION DESTROY ALL OTHER COPIES

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

APPROVAL *[Signature]* DATE 12/21/06



OFFSITE TRENCH DETAIL



ONSITE COMMERCIAL TRENCH DETAIL

CONTRACTOR / DEVELOPER NOTE

- CALL 244-7811 BETWEEN 7 A.M. AND 3 P.M. 24 HOURS IN ADVANCE FOR INSPECTION.
- ANY MODIFICATIONS TO AN EMBARQ DESIGN MUST BE APPROVED BY THE ENGINEER.
- THESE PLANS WILL BE VALID FOR SIX MONTHS FROM DATE OF ISSUE.

EASEMENT / PERMIT CERTIFICATION EASEMENT / PERMIT REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> EASEMENT / PERMIT OBTAINED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> DATE EASEMENT / PERMIT OBTAINED: _____ ROW ENGINEER SIGNATURE: _____ EMBARQ EASEMENT / PERMIT NUMBER: _____ REMARKS: _____	CITY OF LAS VEGAS PERMIT REQUIRED DEVELOPER/CONTRACTOR SHALL OBTAIN A CITY PERMIT BEFORE ANY EXCAVATION WORK WITHIN C.L.V. RIGHT-OF-WAY. I/AN EMBARQ INSPECTOR WILL VERIFY CITY PERMIT FOR WORK DONE WITHIN THE CITY OF LAS VEGAS RIGHT-OF-WAY. INSPECTOR: _____ DATE: _____	OWNER/CONTACT: CITY OF LAS VEGAS (KATHY) TELEPHONE: 702-597-3108 <i>Kathy Jones</i> 12/21/06 REVIEWED BY: FAMILY ENGINEER DATE: _____
---	--	---

DISCLAIMER NOTE :
UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. 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.

INSPECTION NOTES:

ITEMS TO BE INSPECTED BY EMBARQ INCLUDE THE CONDUIT, TRENCH, BACKFILL, TTB OR TTC, THE #6 COPPER, PULL STRINGS IN CONDUIT, GROUTING AROUND CONDUITS ENTERING THE PULL BOX, THE PULL BOXES PLACED AT PROPER GRADE, THE PULL BOX COLLARS AND ANY OTHER MATERIAL AND DR LABOR REQUIREMENT REQUIRED FOR THIS PROJECT. INSPECTION APPOINTMENTS CAN BE MADE BY CALLING 244-7811 24 HOURS IN ADVANCE. SERVICE CAN NOT BE PROVIDED UNTIL ALL INSPECTION REQUIREMENTS ARE MET INCLUDING THE FINAL INSPECTION THAT WILL RELEASE THE JOB TO OUR CONSTRUCTION FORCE.

- NOTE:
- ALL WORK IS BY THE OWNER. EMBARQ TO PLACE THE CABLE AND THE DEMARC UPON WORK COMPLETION AND AN APPROVED FINAL INSPECTION FROM AN EMBARQ INSPECTOR.
 - OWNER/CONTRACTOR TO CALL FOR ALL INSPECTIONS.
 - CALL JUSTIN GLAZIER @ 244-1631, EMBARQ DESIGNER, WITH QUESTIONS OR CHANGES TO THIS PRINT.

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

EMBARQ PROPRIETARY
CONSTRUCTION PERMIT REQUIRED BY CONTRACTOR

NO.	REVISION	ENGR.	MGR.	DATE	Avoid cutting underground utility lines. It's costly.
1	PLACED INTERCEPT 200 BOX, CHANGED SIZE OF BOX, CONDUIT AND LOCATION'S.	R.N.	R.N.	12/21/06	Call before you Dig. 1-800-227-2600 UNDERGROUND SERVICE (USA) REQUIREMENT FOR JUSTIN GLAZIER 244-1631 GILMORE CLIFF SHADOWS PARK WW 244-1631 ALEXANDER AND CLIFF SHADOWS SCALE: 1" = 50' Sht. 1 of 1