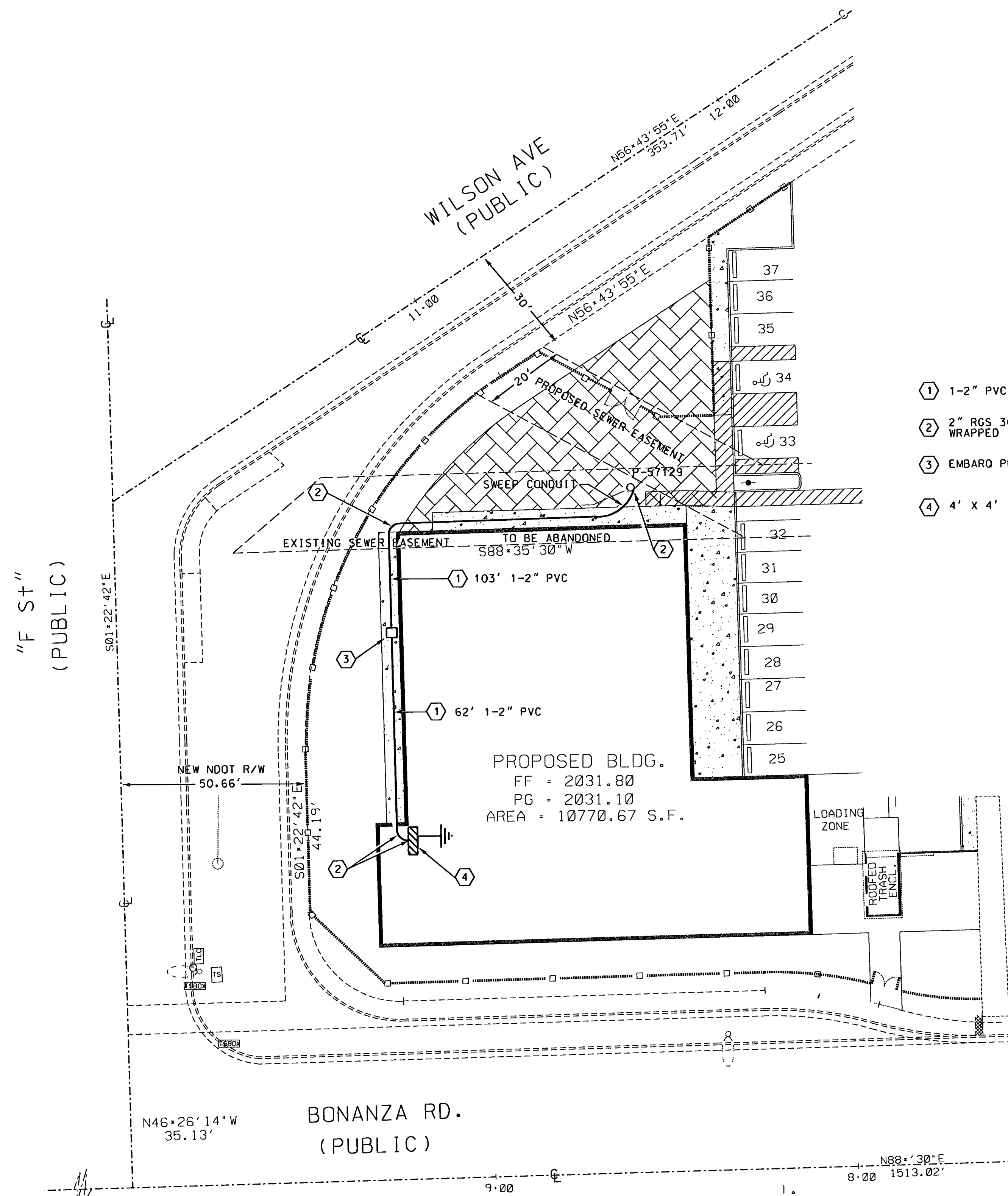
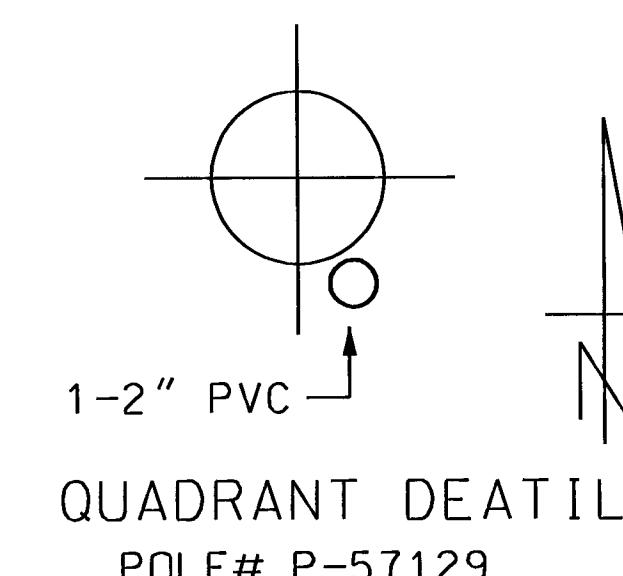




- 1-2" PVC, DB-60 GRADE (EST. 165')
- 2" RGS 36" 90° BENDS DOUBLE WRAPPED 10 MIL PVC TAPE. (4 EA.)
- EMBARO PULL BOX (17"x30"x29-1/2"). (1 EA.)
- 4' x 4' x 3/4" PLYWOOD BACKBOARD



DISCLAIMER NOTE:
UTILITY LOCATIONS SHOWN 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. EMBARO 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 EASEMENTS ONLY.
OBTAINING PERMISSIONS OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.

APPROVAL [Signature] DATE 12/15/2008

LEGEND

— PROPOSED CONDUIT
--- EXISTING CONDUIT

MANHOLE (SEE DRAWING FOR SIZE)

400 PULL BOX
3'-0" x 5'-0" x 4'-0"

200 PULL BOX
2'-6" x 4'-0" x 4'-0"

30 PULL BOX
17" x 30" x 30"

16 HAND HOLE
9" x 14"

EMBARO 100 TERMINAL CABINET
48" x 48" x 6" (100 PAIR)

EMBARO 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. 50 FOR 1-1/2", 2", & 3"
D.B. 100 FOR 4"

90° SWEEPS - SCHEDULE 40 (TYPICAL) OR RIGID GALVANIZED STEEL WITH DOUBLE-WRAPPED 10 MIL CORROSION PROTECTIVE TAPE. (AS SHOWN)

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, SIDE-HINGED DOOR, EQUIPPED INSIDE WITH 1/4" PLYWOOD BACKBOARD (SMALLER ON ALL SIDES, CENTERED IN CABINET) SECURED WITH RECESSED MOUNTING HARDWARE AND A # 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" (6' x 2' & 4' x 4') SHOULD BE MOUNTED 40" ABOVE THE FLOOR.

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

VICINITY MAP
T 20S R 61E SEC: 27

POLYETHYLENE DUCT PLUG(S)

SELECT BACKFILL

FINISHED GRADE

EMBARO MARKING TAPE

PVC CONDUIT

TRENCH SAND OR CONCRETE AS SPECIFIED PER JOB DRAWING.

EMBARO owned conduit
2-4" Rigid Galvanized Steel 48" riser boxes with double wrapped 10 mil. corrosion protective tape

RISER DETAIL
(TYPICAL)

CONSTRUCTION NOTES

- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST ISSUE OF THE EMBARO UNDERGROUND SPECIFICATIONS.
- ALL CONDUIT, TRENCHING, BACKFILLING AND SUBSTRUCTURES ARE TO BE PROVIDED BY THE DEVELOPER AND CONFORM WITH EMBARO 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 3/4" 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, OUTLETS, 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 3/8" INCH JET LINE PULL STRING WITH 400 POUND TENSILE STRENGTH.
- THE CONTRACTOR SHALL PROVE AND MANDELL ALL CONDUIT AFTER BACKFILLING WHILE AN EMBARO INSPECTOR IS PRESENT. MANDELL 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 EMBARO OUTSIDE PLANT ENGINEERING APPROVAL.
- CONCRETE ENCASUREMENT SHALL CONSIST OF 3/4" AGGREGATE 5 SACKS, 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 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 EMBARO INSPECTOR, 24 HOURS PRIOR TO PENETRATING ANY EMBARO MANHOLE OR PULL BOX. THE ENTRANCE LOCATION IS VERY CRITICAL AND WILL BE DETERMINED THAT TIME. CORE DRILLING AND PROPER GROUTING IS MANDATORY. ENTERING THE SIDE OF AN EMBARO MANHOLE OR PULL BOX IS NOT PERMITTED UNLESS APPROVED BY EMBARO.
- ALL TELEPHONE BOXES WILL BE REQUIRED TO HAVE AN 8" x 8" CONCRETE COLLAR POURED AROUND THE TOP PORTION OF THE BOX PER EMBARO STANDARDS, EXCEPT WHEN BOXES ARE TO BE LOCATED IN A CONCRETE SIDEWALK AREA.
- EMBARO 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 EMBARO INSPECTION 24 HOURS PRIOR TO STARTING ANY WORK.

OFFSITE TRENCH DETAIL

SIDEWALK AREA

TERRA-TAPE

CABLE TV

TELEPHONE

POWER

ONSITE TRENCH DETAIL

FINISHED GRADE

BACKFILL AS REQUIRED BY LOCAL CODES IF IN PUBLIC RIGHT-OF-WAY. NATURAL BACKFILL SHALL CONTAIN NO ROCKS LARGER THAN 3"

TELEPHONE TERRA-TAPE

POWER TERRA-TAPE

CABLE TV

TELEPHONE

POWER

APPROVED SAND 4" BELOW 8" ABOVE CONDUIT COMPACTED TO 90% RELATIVE DENSITY

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 EMBARO DESIGN MUST BE APPROVED BY THE ENGINEER.
- THESE PLANS WILL BE VALID FOR SIX MONTHS FROM DATE OF ISSUE.

CITY OF LAS VEGAS
PERMIT REQUIRED*

DEVELOPER/CONTRACTOR SHALL OBTAIN A CITY PERMIT BEFORE ANY EXCAVATION WORK WITHIN CITY OF LAS VEGAS RIGHT OF WAY

* EMBARO INSPECTOR WILL VERIFY CITY PERMIT FOR WORK DONE WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY

INSPECTOR: DATE

OWNER/CONTACT: MIKE POWADA
TELEPHONE: 702-870-4673

REVIEWED BY FACILITY ENGINEER: DATE

NO.	REVISION	ENGR.	MGR.	DATE
1				
2				
3				

Call before you Dig.

811
UNDERGROUND SERVICE (USA)

DESIGNER: J. ELLIOTT
CHECKED: J. ELLIOTT
DATE: 12/15/2008
PROJECT: LAS VEGAS RESCUE MISSION
SHEET: 1 OF 1

EMBARO PROPRIETARY
CONSTRUCTION PERMIT REQUIRED BY CONTRACTOR

107V5007-TBL