

TRANSMISSION REQUIREMENTS

COMPLIANCE WITH ALL NESC AND OSHA REQUIREMENTS
MATERIALS AND EQUIPMENT CANNOT BE STOCKPILED UNDER LINES
POLE BOLLARDS ARE REQUIRED AND SHALL BE INSTALLED BY THE
OWNER IF PARKING IS WITHIN 10' OF ANY TRANSMISSION STRUCTURE
(DETAIL PROVIDED AS REQUIRED)
A 40'X40' SQUARE MUST BE MAINTAINED ON ONE SIDE OF A
TANGENT STRUCTURE AND A 20'X20' SQUARE AROUND A DEAD
END STRUCTURE TO ALLOW ACCESS FOR MAINTENANCE PURPOSES.

CUSTOMER MUST OBTAIN PRIOR APPROVAL FROM TRANSMISSION
ENGINEERING FOR FUTURE PROJECTS AND ANY CHANGES OR
REVISIONS TO THIS PROJECT INCLUDING BUT NOT LIMITED TO
THE FOLLOWING ITEMS:

PARKING OR STORAGE OF VEHICLES EXCEEDING 8' IN HEIGHT
COVERED PARKING
PARKING LIGHTS
METALLIC FENCES OR BLOCK WALLS
TRASH ENCLOSURES
BUILDINGS OR STRUCTURES AND FREE STANDING SIGNS
SWIMMING POOLS
PINE AND PALM TREES
ELEVATION OR GRADE CHANGES

CONTRACTOR SHALL MAINTAIN RADIUS OF 10' PLUS 1:1 SLOPE
OF UNDISTURBED SOIL AROUND POLES OR CONTRACTOR WILL
NEED TO PROVIDE FOR TRENCH SHORING AND/OR BRACING.
CONTRACTOR MAY OBTAIN WAIVER FROM NPC CONSTRUCTION TEAM LEADER.

GENERAL NOTES:

ANY NOTES LOCATED IN DRAWING AREA TAKE
PRECEDENCE OVER STANDARD NOTES.

ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE
WITH THE SPECIFICATIONS SET FORTH IN THE ELECTRIC SERVICE
REQUIREMENTS HANDBOOK, AS CURRENTLY ADOPTED BY NPC.
THE CONTRACTOR SHALL SECURE COPIES OF THE AFOREMENTIONED
CONSTRUCTION SPECIFICATIONS ON HIS OR HER OWN BEHALF.

REFER TO A CURRENT NEVADA POWER ELECTRIC SERVICE
REQUIREMENTS HANDBOOK FOR FURTHER CLARIFICATION
OF NPC STANDARDS.

THE APPLICANT SHALL INFORM THE INSPECTOR AT LEAST 48
HOURS BEFORE COMMENCING ANY ITEM OF CONSTRUCTION
OR INSTALLATION OF MATERIAL TO ENABLE PROPER INSPECTION
OF MATERIALS AND WORKMANSHIP. MAIN TRENCH WIRE PULLS
TO BE SCHEDULED 72 HOURS IN ADVANCE OF INSTALLATION.
APPLICANT'S PROJECT WILL NOT BE SCHEDULED UNTIL FINAL
APPROVAL FROM NPC UNDERGROUND & ELECTRICAL INSPECTORS.

SYMBOLS ARE NOT TO SCALE AND DO NOT NECESSARILY
REPRESENT ACTUAL LOCATIONS OF FACILITIES.

THIS DRAWING ILLUSTRATES DATA COLLECTED FROM VARIOUS
SOURCES AND MAY NOT REPRESENT A SURVEY OF THE PREMISES.

APPLICANT SHALL FIELD DETERMINE POSITION AND DEPTH OF
EXISTING UTILITY EQUIPMENT PRIOR TO COMMENCING CONSTRUCTION.

USE CAUTION PRIOR TO EXCAVATION. CHECK TO ENSURE ADDITIONAL
DEPTH IS NOT REQUIRED TO ACCOMMODATE GAS AND/OR WATER
FACILITIES AND DRAINAGE CHANNELS.

CALL NEVADA POWER UNDERGROUND INSPECTORS 48 HOURS
PRIOR TO START OF CONSTRUCTION FOR TRENCH INSPECTION
BEFORE COVERING TRENCH.

ALL NPC CABLE TO BE INSTALLED BEHIND CURB, UNLESS
OTHERWISE STATED.

APPLICANT IS RESPONSIBLE FOR STAKING OF PROPERTY CORNERS
& ELEVATIONS.

ALL HANDHOLES AND PULLBOXES SHALL BE INSTALLED TO
FINISHED GRADE OR 6" ABOVE IF GRADE IS NOT ESTABLISHED.

WHEN INSTALLING CONDUIT IN FIELD, USE APPROPRIATE BENDS
TO COMPLETE THE INSTALLATION.

DEFLECTION OF CONDUIT BENDS AND CONDUIT NOT TO EXCEED
NPC STANDARDS.

EXISTING CONDUIT INSTALLED BY PREVIOUS CONTRACTOR / DEVELOPER.
NPC DOES NOT GUARANTEE LOCATION, LENGTH OR ACCESSIBILITY OF STUB
OUT.

NO COVERED PARKING IN SHADED AREAS.

ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE
"UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE
"UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK
COUNTY AREA NEVADA", LATEST ISSUE; AND OTHER APPLICABLE APPROVED
STANDARDS ISSUED BY THE CONTROLLING AGENCY; ALL LOCAL CITY CODES
AND ORDINANCES APPLICABLE.

RESIDENTIAL DEVELOPMENT

NEW NPC WORK AND SERVICES TO CONSIST OF:

- 1/0 TRIPLEX, 15 KV AL PRIMARY CABLE IN 4" PLASTIC CONDUIT.
- 1/0, 15 KV AL PRIMARY CABLE IN 2" PLASTIC CONDUIT.
- 2" DB120 PLASTIC CONDUIT (INCLUDING SWEEPS OR RISERS FOR HANDHOLES, TRANSFORMERS, PULLBOXES, ETC.).
- 2" SCH.40 PLASTIC CONDUIT BENDS (90°, 45°) WITH 48" MINIMUM RADIUS (IF CONDUIT LENGTH IS UNDER 500').
- 2" FIBERGLASS CONDUIT BENDS (90°, 45°) WITH 36" MINIMUM RADIUS (IF CONDUIT LENGTH IS OVER 500').

500 MCM TRIPLEX SECONDARY CABLE IN 4" PLASTIC CONDUIT.

350 MCM TRIPLEX SECONDARY CABLE, CABLE IN CONDUIT.

4/0 AWG TRIPLEX SECONDARY CABLE, CABLE IN CONDUIT.

2/0 AWG TRIPLEX SECONDARY CABLE, CABLE IN CONDUIT.

CONDUIT LOCATING DEVICE 18" ABOVE STUBOUT.

SINGLE PHASE PRIMARY POLE RISER PER NPC U.G. STD. OEP-105.

THREE PHASE PRIMARY POLE RISER PER NPC U.G. STD. OEP-106.

SECONDARY RISER PER NPC U.G. STD. SSP-2.

SINGLE PHASE RESIDENTIAL PADMOUNTED TRANSFORMER WITH

SIZE AS NOTED, 7200-120/240V, PER NPC U.G. STD. UT-113.

SINGLE PHASE COMMERCIAL PADMOUNTED TRANSFORMER WITH

SIZE AS NOTED, 7200-120/240V, PER NPC U.G. STD. UT-105.

(2) SINGLE PHASE RESIDENTIAL COMMERCIAL TRANSFORMERS WITH
SIZE AS NOTED, 7200-120/240V, CONNECT OPEN WYE-OPEN
DELTA FOR THREE PHASE 120-240V SERVICE, PER NPC U.G. STD.
UT-115, WHERE APPLICABLE.

TERMINATION OF ALL MODULES, MAKES, SPLICES AND FINAL
CONNECTIONS.

NPC TO COIL PRIMARY CABLE IN PULLBOX FOR FUTURE SPLICES,
WHERE APPLICABLE.

NPC TO CUT EXISTING CONDUIT AND TERMINATE PRIMARY CABLES
ON THE LOAD BREAK MODULE, WHERE APPLICABLE.

100 FEET OUTSIDE RESIDENTIAL DEVELOPMENT MARKER.

APPLICANT TO FURNISH AND INSTALL:

ALL TRENCHING & BACKFILL, MEETING APPLICABLE NPC STANDARD
(RT-7, RT-8, OR RT-12).

4" PLASTIC CONDUIT 100' OUTSIDE RESIDENTIAL DEVELOPMENT,
PER NPC U.G. STD. RC-1 AND RC-2.

4" PLASTIC CONDUIT BENDS (90°, 45°) WITH 36" MIN. RADIUS.
(IF CONDUIT LENGTH IS UNDER 100')

4" RGS BENDS (90°, 45°) WITH 36" MINIMUM RADIUS, TAPED
OR PVC COATED. (IF CONDUIT LENGTH IS OVER 100')

STREET CROSSING INSTALLATION, NPC PROVIDES
A 4" CONDUIT PER SECONDARY CABLE, AND
A 2" CONDUIT PER 1/0 CABLE.

6" TO (3/2)" REDUCERS, PER NPC U.G. STD. RC-1 AND RC-2.

4" TO (1/2)" REDUCERS, PER NPC U.G. STD. RC-1 AND RC-2.

COUPLING FOR 2" OR 4" CONDUITS (AS APPLICABLE).

17" X 30" HANDHOLE, PER NPC U.G. STD. RS-1 (WITH 8"
COLLAR WHERE APPLICABLE).

2'-6" X 4' X 4' SPLICE PULLBOX PER NPC U.G. STD. RS-80.

3' X 7' X 4' PULLBOX PER NPC U.G. STD. RS-82.

PAD FOR (1) SINGLE PHASE RESIDENTIAL TRANSFORMER, PER
NPC U.G. STD. RS-13 AND RS-5.

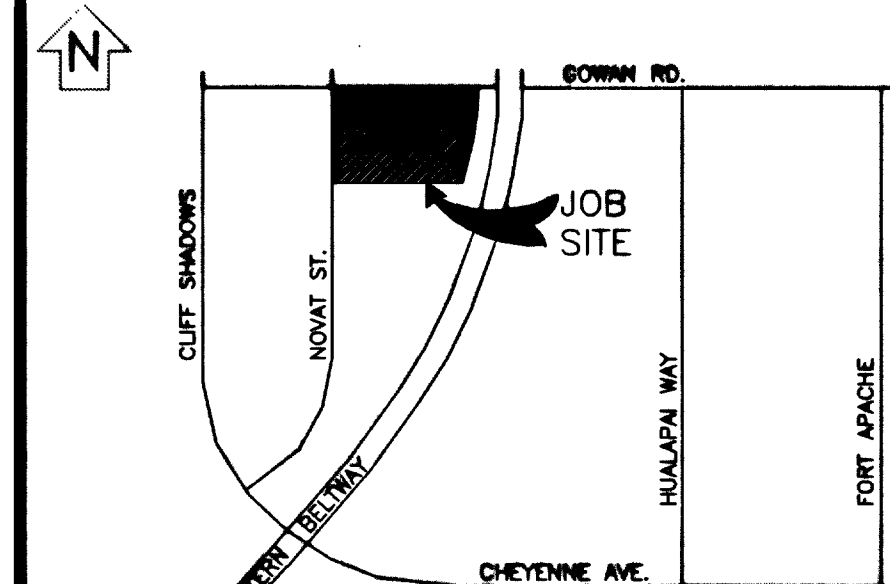
PAD FOR (2) SINGLE PHASE RESIDENTIAL TRANSFORMERS, PER
NPC U.G. STD. RS-14 AND RS-5.

PAD FOR (1) SINGLE PHASE COMMERCIAL TRANSFORMER, PER
NPC U.G. STD. RS-19 AND RS-5.

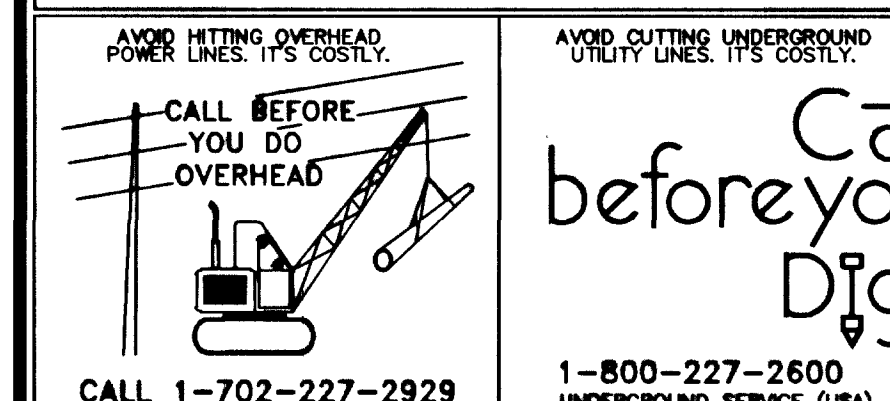
VEHICLE PROTECTIVE BARRIERS PER NPC U.G. STD. RS-6,
WHERE APPLICABLE.



T, R, S: 2059-12
APN: 137

VICINITY MAP
(NOT TO SCALE)

EVERY EFFORT HAS BEEN MADE TO IDENTIFY ALL NPC
FACILITIES. THE CUSTOMER SHALL CONFIRM THE EXISTENCE
AND LOCATION OF THESE FACILITIES.



REVISIONS

NO.	DESCRIPTION	DATE	G.A.
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DCA

TYPE OF EASEMENT:	JPA NOTES:
AERIAL STANDARD	SPRINT CONTACT:
UNDERGROUND	PHONE NUMBER:
AS BUILT UNDERGROUND	DATE OF CONTACT:
R.O.E./R.W.-5-COM	TO SET NEW POLES
3rd PARTY	TO TAKE NEW POLES
UNDERGROUND BY EXHIBIT	TO REMOVE EX. POLES
(N-507) PERMIT	
(BLM) PERMIT	
RAILROAD-UPRR-PERMIT	
SO. NEVADA WATER PERMIT	
NOT REQUIRED	
Misc. Info.	

NPC INFORMATION:

COORDINATOR: TRISH GARVIN

PHONE: 657-4308

DESIGNER: KEITH CARROLL

DCA: PAT WYNEN 275-5640

INSPECTOR: 378-3725

SCHEDULING: 657-4114, 657-4116, 657-4118

DISTRICT: LAS VEGAS

CUSTOMER INFORMATION:

APPLICANT: RICHMOND AMERICAN HOMES

ENGINEER: TETRA TECH INC.

CONTACT: PAUL 683-0709

APPROVAL DATE: 8-20-2003

GOVERNMENT INFORMATION:

AGENCY: CITY OF LAS VEGAS

APPROVAL DATE:

NEVADA POWER COMPANY

SIERRA II PHASE 1

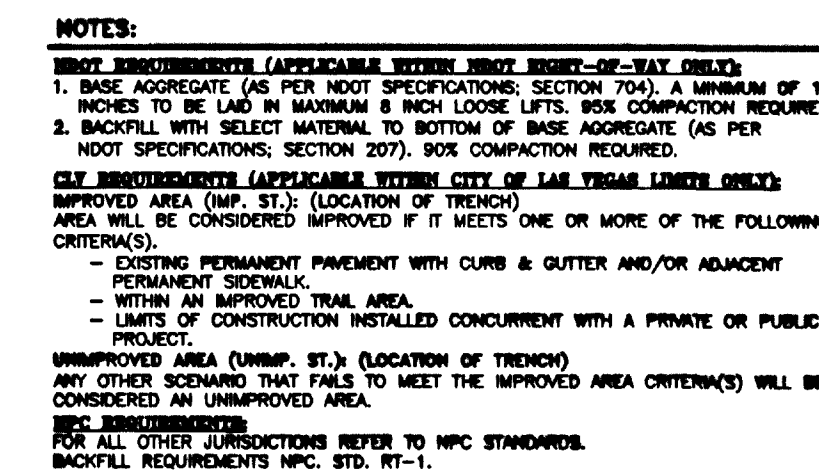
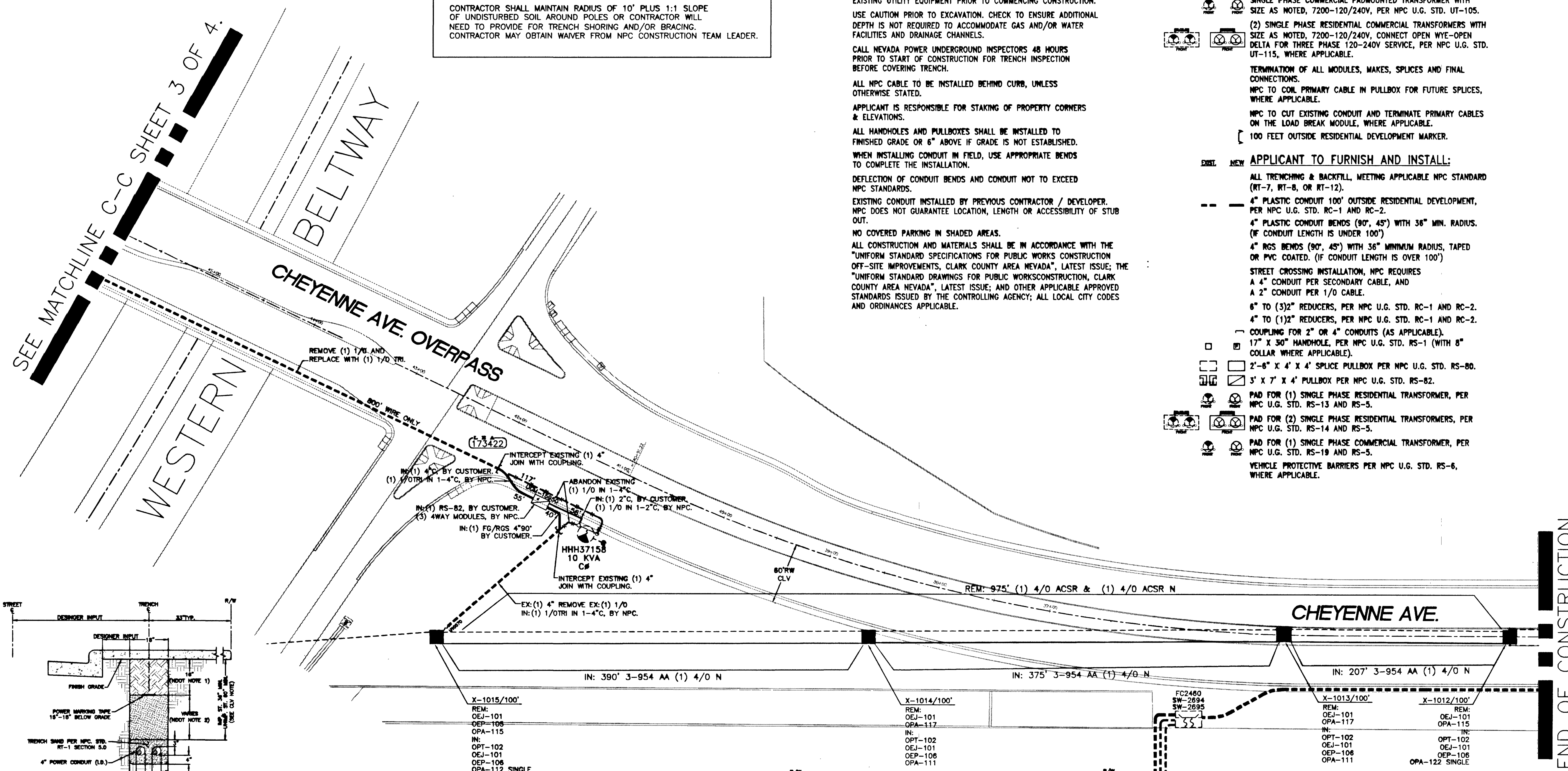
PROJ. ID: 173422

SHEET # 1 OF 1

DATE: 06/18/2003

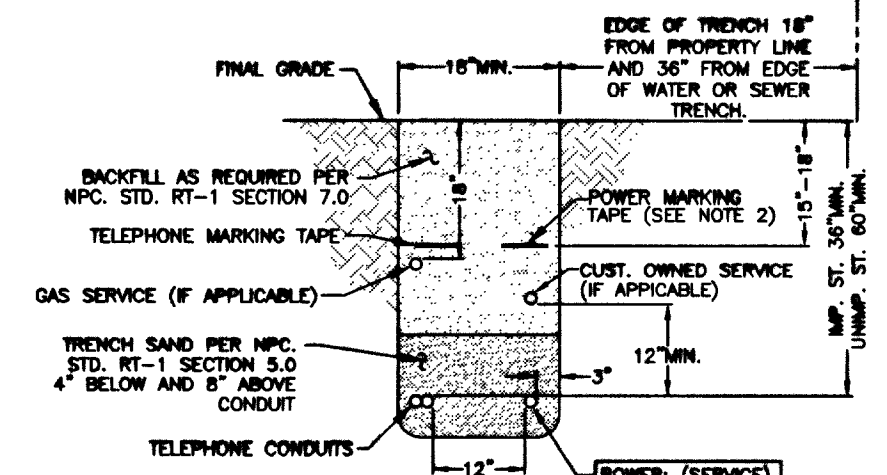
SCALE: 1" = 50'

DATE: 06/18/2003



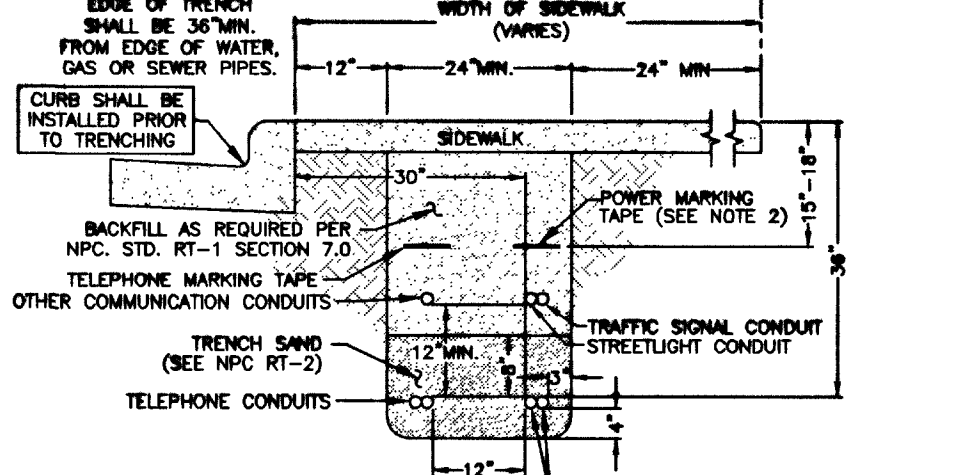
TRENCH DETAIL

2'-4" CONDUITS



TRENCH DETAIL

NPC U.G. STD. RT-7 (RESIDENTIAL SERVICE)



SIDEWALK TRENCH DETAIL

NPC U.G. STD. RT-7 (RESIDENTIAL OR COMMERCIAL)

CITY OF LAS VEGAS

PERMIT REQUIRED*

CONTACT CLV LAND DEVELOPMENT (229-8371)
CLV CONSTRUCTION SERVICES MUST BE
NOTIFIED 24 HOURS PRIOR TO COMMENCING
CONSTRUCTION (229-8337)

*NPC INSPECTOR MUST BE NOTIFIED BY
FAX 48 HOURS PRIOR TO COMMENCING
CONSTRUCTION & WILL VERIFY CITY PERMIT
FOR WORK DONE IN STREETS OR SIDEWALK.
LAS VEGAS NORTH: 857-4354
LAS VEGAS SOUTH (HENDERSON): 558-4740
LAS VEGAS SOUTH (SPRING VALLEY): 252-4828

UNLESS OTHERWISE NOTED:

ALL SERVICE CONDUCTOR: 2/0 AL TRI.

ALL TRANSFORMERS: 7200-120/240V-1Ø PM

COMBINED A/C TONNAGE: 5 TONS

NUMBER OF UNITS: 155

MAIN SIZE: 200 AMPS

ESTIMATED KVA PER UNIT: 6 KVA

SQ. FT. OF LARGEST HOME: 2000 FT²