

**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 NVE. THE CONTRACTOR SHALL SECURE COPIES OF THE AFOREMENTIONED CONSTRUCTION SPECIFICATIONS ON HIS OR HER OWN BEHALF.

REFER TO A CURRENT NV ENERGY ELECTRIC SERVICE REQUIREMENTS HANDBOOK FOR FURTHER CLARIFICATION OF NVE 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 NVE 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 NV ENERGY UNDERGROUND INSPECTORS 48 HOURS PRIOR TO START OF CONSTRUCTION FOR TRENCH INSPECTION BEFORE COVERING TRENCH.

ALL NVE 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 NVE STANDARDS.

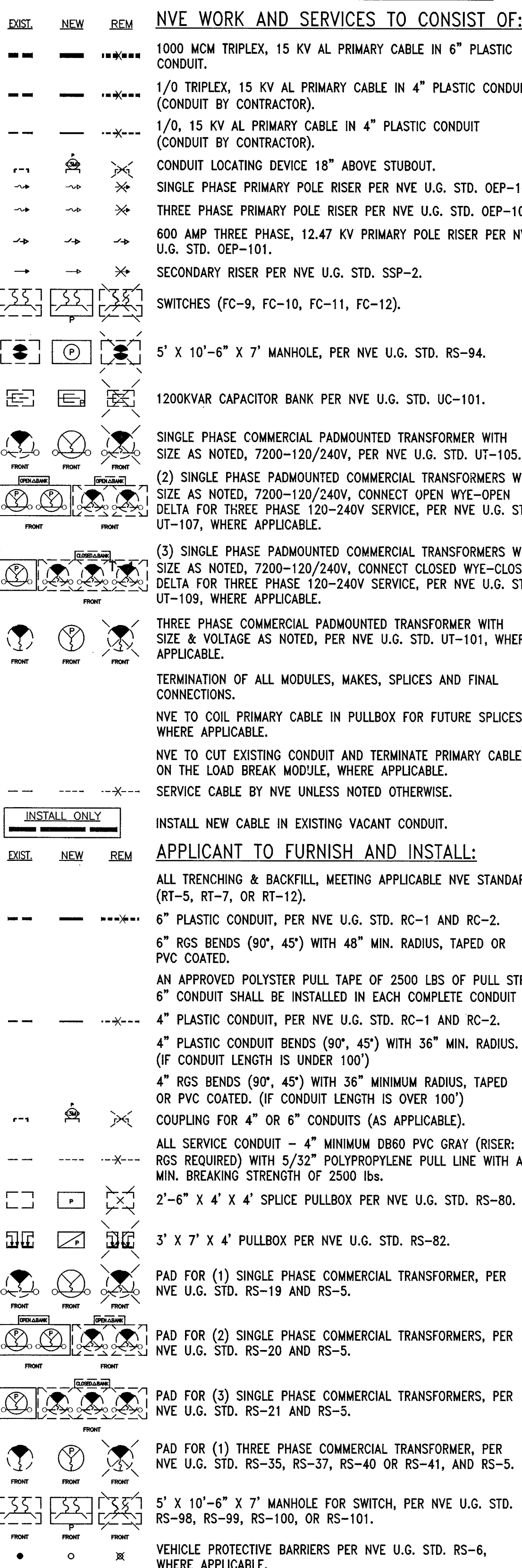
EXISTING CONDUIT INSTALLED BY PREVIOUS CONTRACTOR / DEVELOPER. NVE DOES NOT GUARANTEE LOCATION, LENGTH, OR ACCESSIBILITY OF STUB OUT. IF UTILIZING ANY PORTION OF EXISTING CONDUIT, IT MUST BE MANDRELLED PRIOR TO FINAL RELEASE.

PREVIOUSLY MANDRELLED CONDUIT WHICH HAS BEEN IN THE GROUND FOR OVER 6 MONTHS MUST BE RE-MANDRELLED PRIOR TO FINAL RELEASE.

WHEN NV ENERGY FACILITIES ARE TO BE REMOVED NV ENERGY WILL REMOVE ALL WIRES AND EQUIPMENT. NV ENERGY IS NOT RESPONSIBLE FOR THE REMOVAL OF CONDUIT RUNS OR SUBSTRUCTURES FROM THE PROPERTY. NO COVERED PARKING IN FRONT OF EQUIPMENT.

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.

**COMMERCIAL WITH FEEDER**



**NVE WORK AND SERVICES TO CONSIST OF:**

- 1000 MCM TRIPLEX, 15 KV AL PRIMARY CABLE IN 6" PLASTIC CONDUIT.
- 1/0 TRIPLEX, 15 KV AL PRIMARY CABLE IN 4" PLASTIC CONDUIT (CONDUIT BY CONTRACTOR).
- 1/0, 15 KV AL PRIMARY CABLE IN 4" PLASTIC CONDUIT (CONDUIT BY CONTRACTOR).
- CONDUIT LOCATING DEVICE 18" ABOVE STUBOUT.
- SINGLE PHASE PRIMARY POLE RISER PER NVE U.G. STD. OEP-105.
- THREE PHASE PRIMARY POLE RISER PER NVE U.G. STD. OEP-106.
- 600 AMP THREE PHASE, 12.47 KV PRIMARY POLE RISER PER NVE U.G. STD. OEP-101.
- SECONDARY RISER PER NVE U.G. STD. SSP-2.
- SWITCHES (FC-9, FC-10, FC-11, FC-12).

5' X 10'-6" X 7' MANHOLE, PER NVE U.G. STD. RS-94.

1200KVAR CAPACITOR BANK PER NVE U.G. STD. UC-101.

SINGLE PHASE COMMERCIAL PADMOUNTED TRANSFORMER WITH SIZE AS NOTED, 7200-120/240V, PER NVE U.G. STD. UT-105.

(2) SINGLE PHASE PADMOUNTED COMMERCIAL TRANSFORMERS WITH SIZE AS NOTED, 7200-120/240V, CONNECT OPEN WYE-OPEN DELTA FOR THREE PHASE 120-240V SERVICE, PER NVE U.G. STD. UT-107, WHERE APPLICABLE.

(3) SINGLE PHASE PADMOUNTED COMMERCIAL TRANSFORMERS WITH SIZE AS NOTED, 7200-120/240V, CONNECT CLOSED WYE-CLOSED DELTA FOR THREE PHASE 120-240V SERVICE, PER NVE U.G. STD. UT-109, WHERE APPLICABLE.

THREE PHASE COMMERCIAL PADMOUNTED TRANSFORMER WITH SIZE & VOLTAGE AS NOTED, PER NVE U.G. STD. UT-101, WHERE APPLICABLE.

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

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

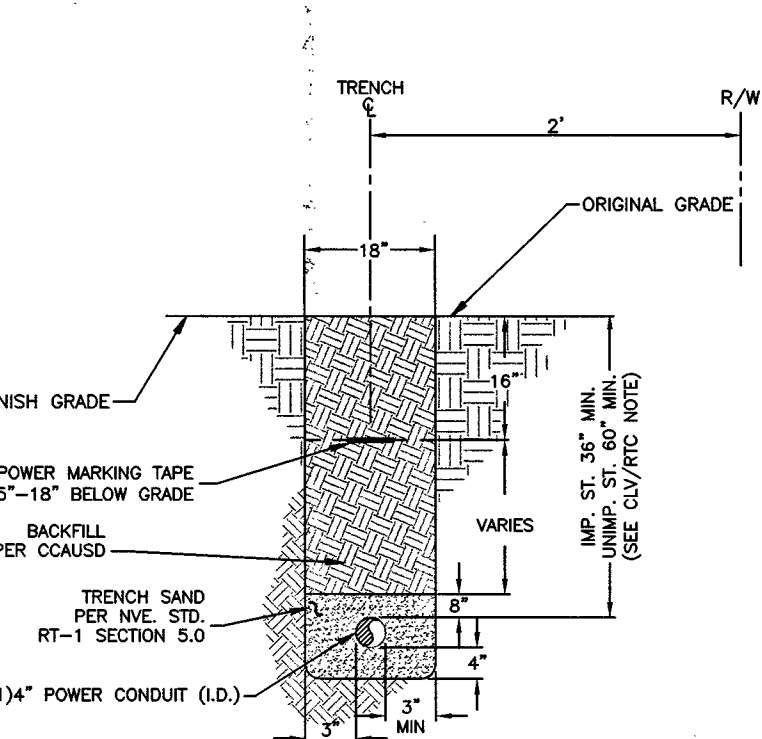
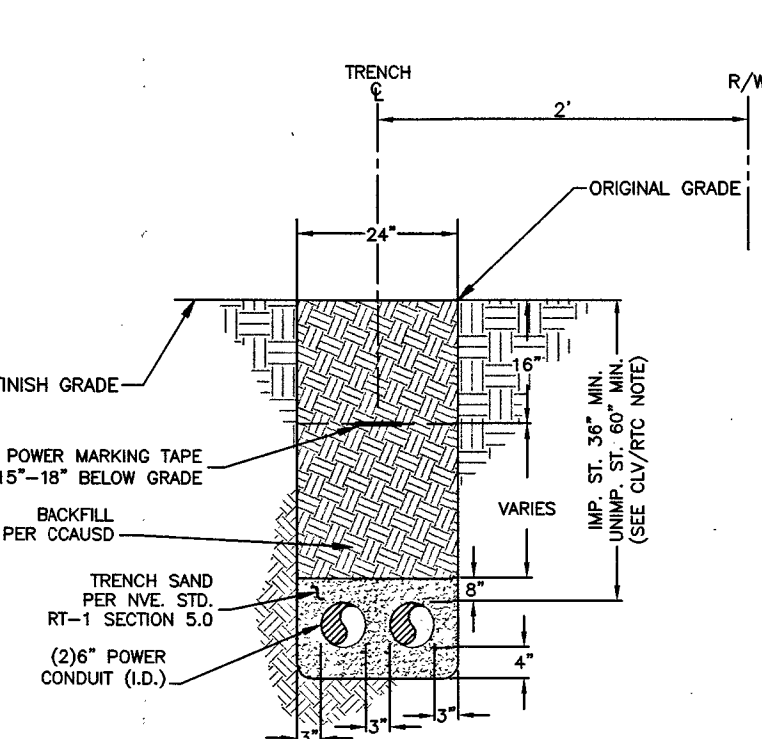
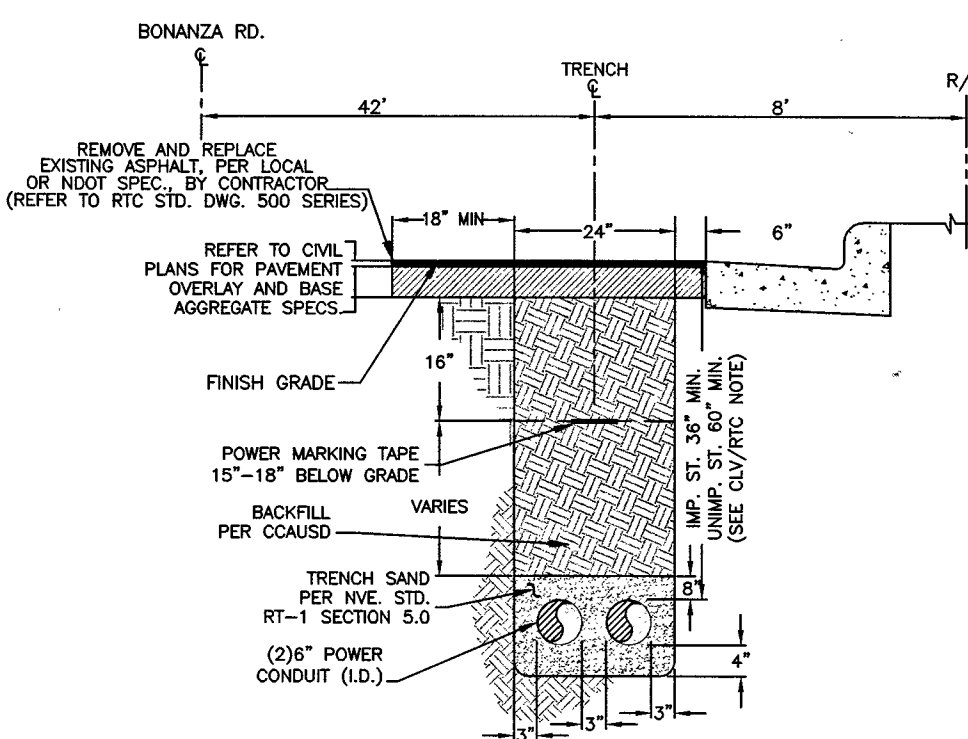
NVE TO CUT EXISTING CONDUIT AND TERMINATE PRIMARY CABLES ON THE LOAD BREAK MODULE, WHERE APPLICABLE.

SERVICE CABLE BY NVE UNLESS NOTED OTHERWISE.

INSTALL NEW CABLE IN EXISTING VACANT CONDUIT.

**APPLICANT TO FURNISH AND INSTALL:**

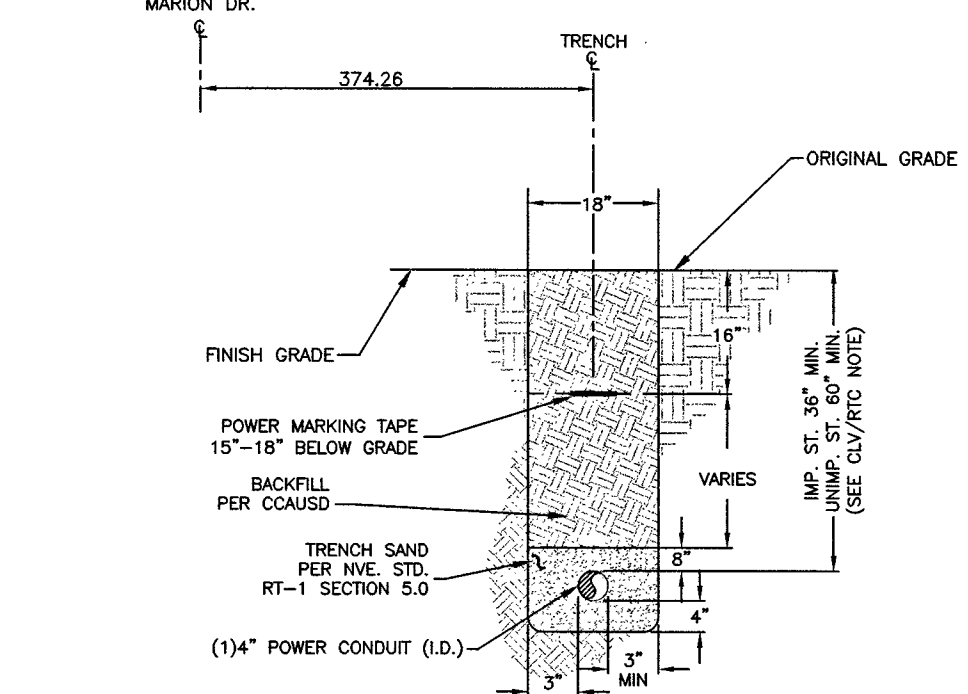
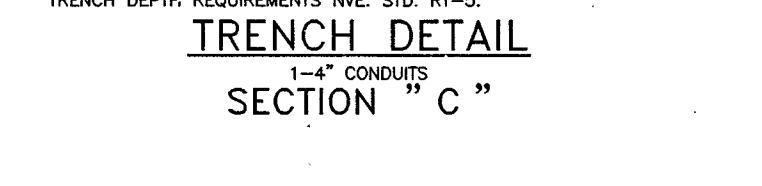
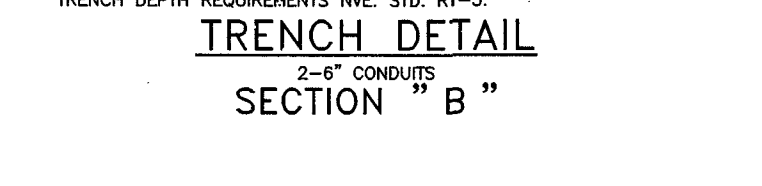
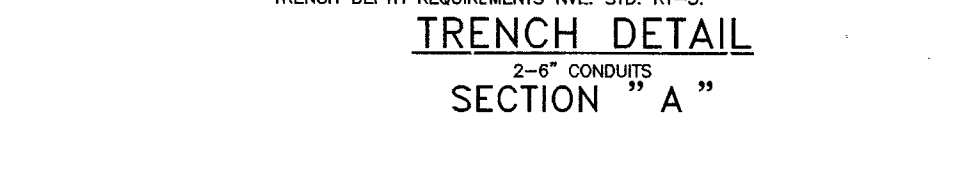
- ALL TRENCHING & BACKFILL, MEETING APPLICABLE NVE STANDARD (RT-5, RT-7, OR RT-12).
- 6" PLASTIC CONDUIT, PER NVE U.G. STD. RC-1 AND RC-2.
- 6" RGS BENDS (90°, 45°) WITH 48" MIN. RADIUS, TAPED OR PVC COATED.
- AN APPROVED POLYESTER PULL TAPE OF 2500 LBS OF PULL STRENGTH FOR 6" CONDUIT SHALL BE INSTALLED IN EACH COMPLETE CONDUIT RUN.
- 4" PLASTIC CONDUIT, PER NVE 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')
- COUPLING FOR 4" OR 6" CONDUITS (AS APPLICABLE).
- ALL SERVICE CONDUIT - 4" MINIMUM DB60 PVC GRAY (RISER: RGS REQUIRED) WITH 5/32" POLYPROPYLENE PULL LINE WITH A MIN. BREAKING STRENGTH OF 2500 LBS.
- 2'-6" X 4' X 4' SPLICE PULLBOX PER NVE U.G. STD. RS-80.
- 3' X 7' X 4' PULLBOX PER NVE U.G. STD. RS-82.
- PAD FOR (1) SINGLE PHASE COMMERCIAL TRANSFORMER, PER NVE U.G. STD. RS-19 AND RS-5.
- PAD FOR (2) SINGLE PHASE COMMERCIAL TRANSFORMERS, PER NVE U.G. STD. RS-20 AND RS-5.
- PAD FOR (3) SINGLE PHASE COMMERCIAL TRANSFORMERS, PER NVE U.G. STD. RS-21 AND RS-5.
- PAD FOR (1) THREE PHASE COMMERCIAL TRANSFORMER, PER NVE U.G. STD. RS-35, RS-37, RS-40 OR RS-41, AND RS-5.
- 5' X 10'-6" X 7' MANHOLE FOR SWITCH, PER NVE U.G. STD. RS-98, RS-99, RS-100, OR RS-101.
- VEHICLE PROTECTIVE BARRIERS PER NVE U.G. STD. RS-6, WHERE APPLICABLE.



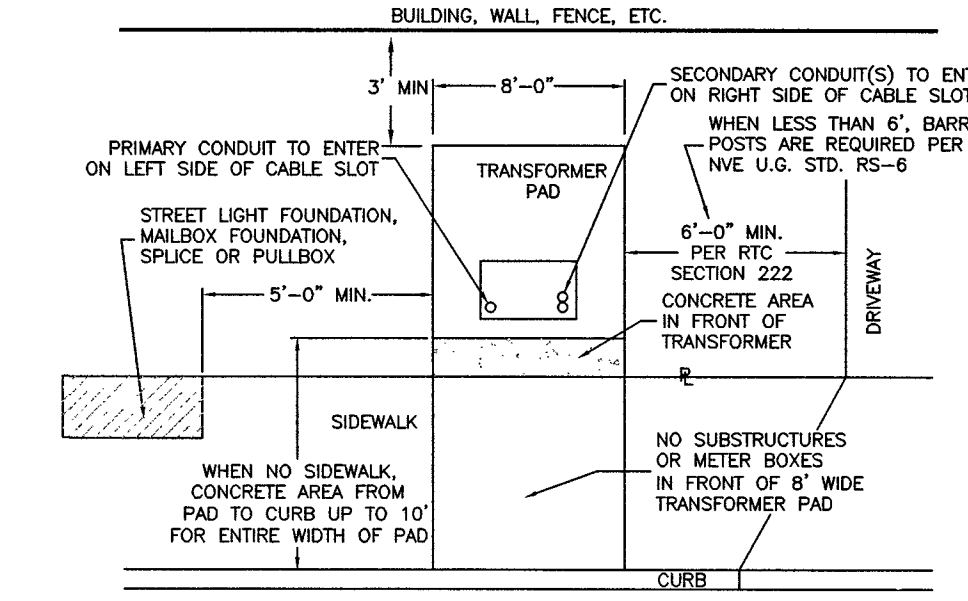
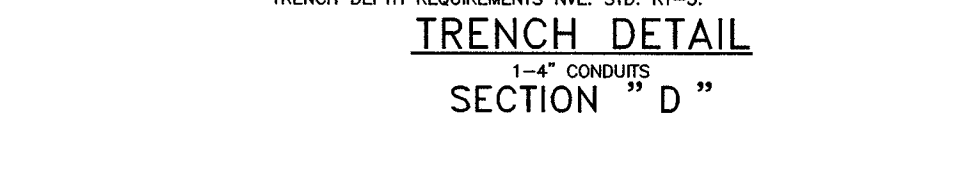
**NOTES:**  
REGIONAL TRANSPORTATION COMMISSION, CITY OF HENDERSON, CITY OF NORTH LAS VEGAS AND UNINCORPORATED CLARK COUNTY REQUIREMENTS (SECTION 508.1 & 508.2) METHOD A/B FOR FLEXIBLE/RIGID PIPE TRENCH BACKFILL-PAVED AREAS  
1. NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.  
2. TRENCH WIDTH, BEDDING, SUBGRADE AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE ENTITY REQUIREMENTS.  
3. CRUSHED ROCK MAY BE USED FOR PIPE BEDDING ONLY IF MATERIAL USE HAS BEEN SPECIFICALLY APPROVED BY THE GOVERNING AGENCY. SEE STANDARD DRAWING NO. 505 FOR PIPE BEDDING METHODS.  
4. LAS VEGAS VALLEY WATER DISTRICT REQUIRES PIPE BEDDING AND BACKFILL WITHIN THE PIPE ZONE TO BE OF THE SAME MATERIAL.  
**COIL TRENCHING:**  
FOR ALL AREAS EXCEPT INVENTORY PIPE ZONE, THE TRENCH, BACKFILL AND AC REPLACEMENT SHALL BE PER COCAUSD.  
**NVE REQUIREMENTS:**  
FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS. BACKFILL REQUIREMENTS NVE STD. RT-5. TRENCH DEPTH REQUIREMENTS NVE STD. RT-5.

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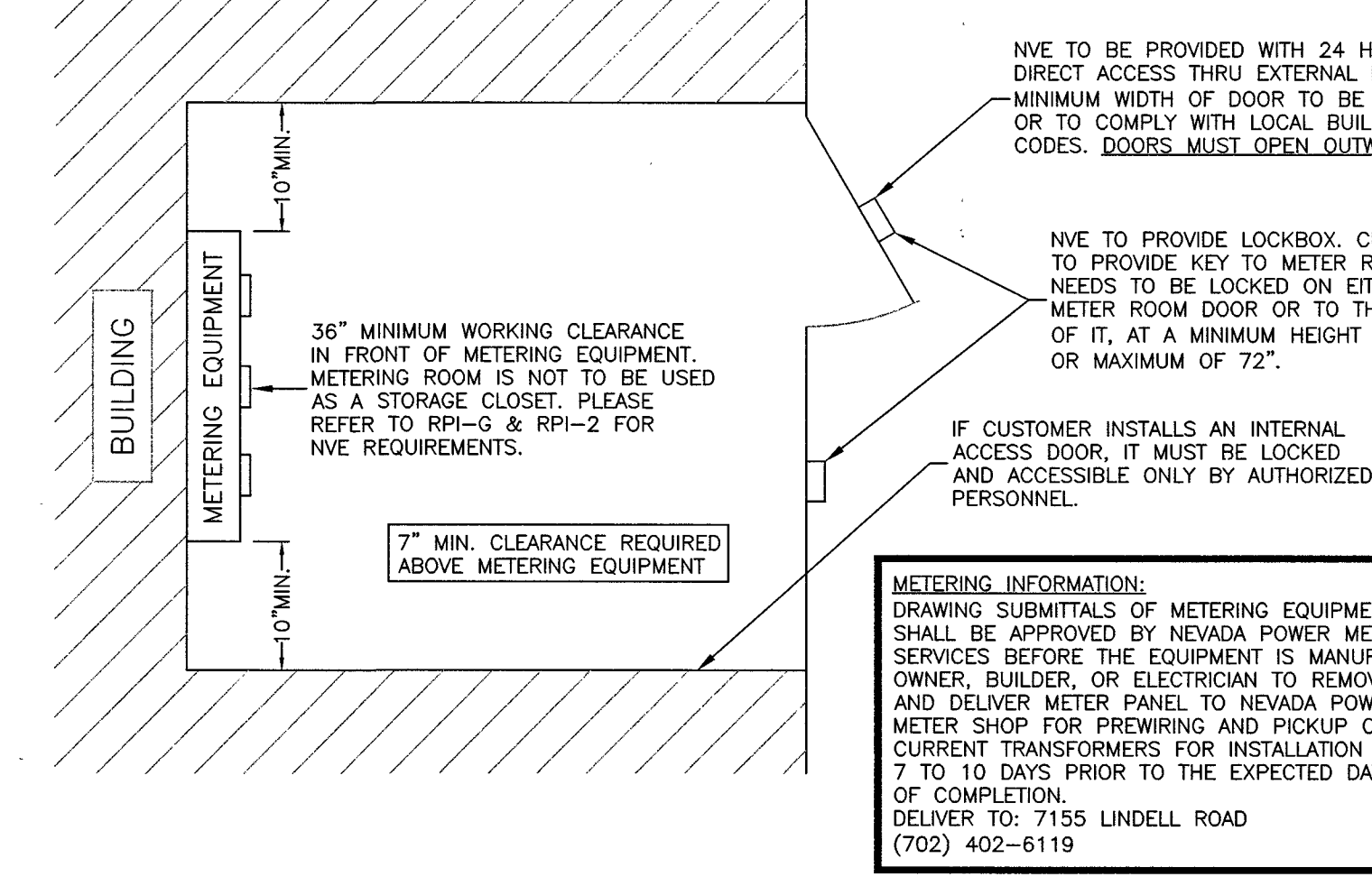
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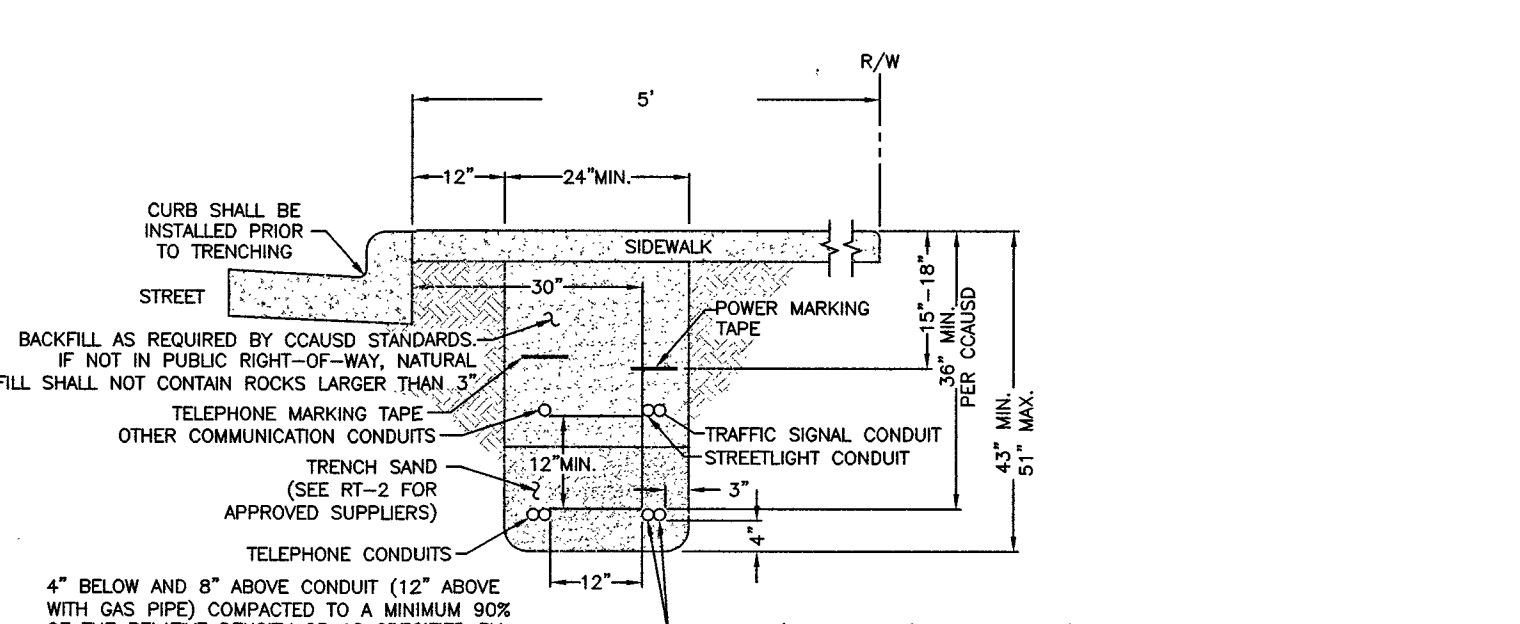
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**THREE-PHASE TRANSFORMER LOCATION DETAIL**  
NVE U.G. STD. RS-5 & RS-35 OR RS-37



**METER ROOM DETAIL**  
NVE U.G. STD. RPI-G & RPI-2 (NOT TO SCALE)



**SIDEWALK TRENCH DETAIL**  
NVE U.G. STD. RT-7 (REV. 10/27/2014) (RESIDENTIAL OR COMMERCIAL)

SOURCE	PH.	EX.	KVA	ADDED KVA	TOTAL KVA	LOOP
DFC7838	A	OKVA	167KVA	167KVA		
UGM46389	B	OKVA	167KVA	167KVA		
WN1203	C	OKVA	167KVA	167KVA		

**NV ENERGY SCHEDULING NOTE: DAY (LANE BLOCKS)**  
THIS PROJECT WAS ESTIMATED WITH THE ASSUMPTION THAT ALL THE WORK BEING PERFORMED ON THIS PROJECT BY NV ENERGY CREWS CAN BE DONE DURING THE DAYTIME AND WILL REQUIRE TRAFFIC CONTROL.  
GOVERNMENT APPROVAL OF THESE DRAWINGS DOES NOT INDICATE APPROVAL OF TRAFFIC CONTROL PLEASE REFER TO THE BARRICADE PLAN FOR APPROVED TRAFFIC CONTROL REQUIREMENTS.

**PURPOSE OF PROJECT:**  
TO PROVIDE 277/480V 3PH SERVICE TO NEW 2000A SWITCH GEAR FOR NEW CHARTER SCHOOL

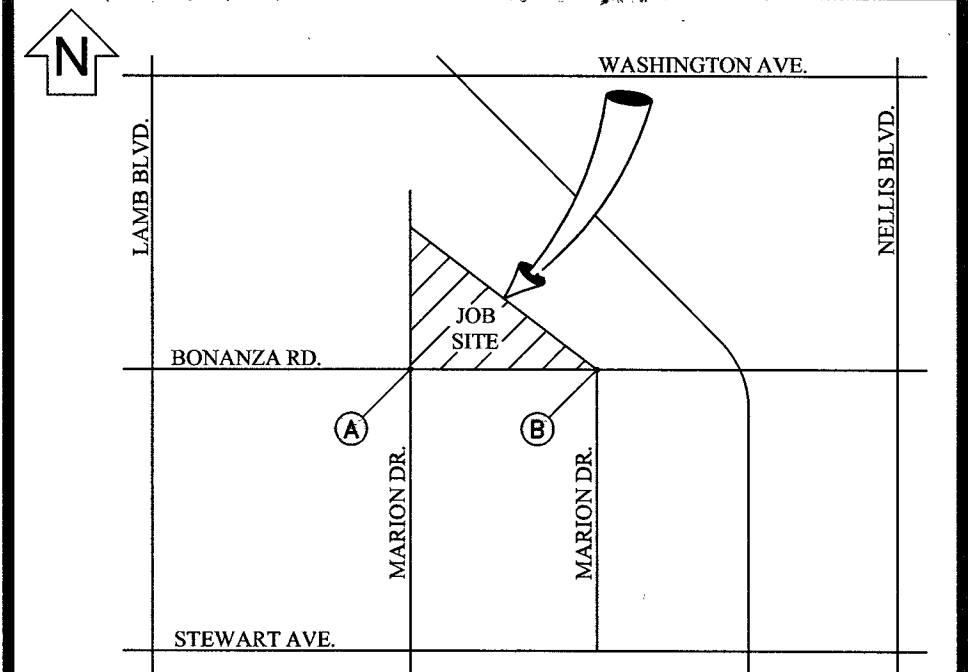
**CITY OF LAS VEGAS PERMIT REQUIRED\***  
CONTACT CLV LAND DEVELOPMENT (229-6371)  
CLV CONSTRUCTION SERVICES MUST BE NOTIFIED 24 HOURS PRIOR TO COMMENCING CONSTRUCTION (229-6337)  
HANSEN DATE  
\*NVE INSPECTOR MUST BE NOTIFIED BY FAX 48 HOURS PRIOR TO COMMENCING CONSTRUCTION & WILL VERIFY CITY PERMIT FOR WORK DONE IN STREETS OR SIDEWALK.  
FAX PERMIT TO:  
LAS VEGAS NORTH (RYAN CENTER) 402-4354  
LAS VEGAS SOUTH (BELTWAY CENTER) 402-8864

**CIVIL LINETYPE LEGEND**

CENTERLINE	---
PROPERTY LINE/ROW	---
EDGE OF PAVEMENT	---
EDGE OF SIDEWALK	---
SEWER LINE	---
WATER LINE	---
COVWD WATER LINE	---
LYVWD WATER LINE	---
SNWA WATER LINE	---
GAS LINE	---
TELEPHONE LINE	---
CABLE TV LINE	---
STORM DRAIN LINE	---
FIRE HYDRANT	---
SIGNAL LIGHT	---
STREET LIGHT	---

**CONSTRUCTION/INSPECTION REQUIREMENTS**  
WORK MUST CONFORM TO NVE ELECTRIC SERVICE STANDARDS. AVAILABLE AT: www.nvenergy.com/business/newconstruction/newconstruction/servicesstandards.cfm  
NVE INSPECTOR MUST BE PRESENT TO INSPECT TRENCHING (SCHEDULE AT LEAST 72 HOURS IN ADVANCE) AT EACH OF THE FOLLOWING STAGES:  
1. BOTTOM SAND AND CONDUIT INSTALLED  
2. TOP SAND INSTALLED  
3. BACKFILL INSTALLED  
CONDUIT MUST BE MANDRELLED PRIOR TO RELEASE (COORDINATE WITH INSPECTOR).  
NVE STAND BY CREW IS REQUIRED WHEN WORKING AT AN ENERGIZED VAULT OR TRANSFORMER. CALL STAFF BY NUMBER (SEE TITLE BLOCK) TO SCHEDULE.  
NVE ELECTRICAL INSTALLATION WILL NOT BE SCHEDULED UNTIL AFTER THE NVE INSPECTOR HAS COMPLETED THE OFFICIAL RELEASE.  
METER(S) WILL NOT BE SET UNTIL ALL OF THE FOLLOWING ARE COMPLETE:  
• INSTRUMENT-RATED ONLY METERING EQUIPMENT HAS BEEN SUBMITTED TO NVE METERING ENGINEER AND APPROVED. (submit@nve.com)  
• APPLICATION FOR METER SET HAS BEEN SUBMITTED TO NVE'S NEW DEVELOPMENT CENTER. FORM AVAILABLE AT: www.nvenergy.com/formcenter\_arch/newconstruction/meter\_set.pdf  
• THE LOCAL BUILDING AUTHORITY HAS INSPECTED AND APPROVED THE METERING EQUIPMENT.  
• METERING EQUIPMENT IS ACCESSIBLE AND CLEARLY IDENTIFIED WITH PERMANENT MARKINGS. ADDRESSES, SUITE NUMBERS, AND STREET SIGNS ARE POSTED IN PERMANENT LOCATIONS (SEE RPI-5).  
TRACK PROJECT STATUS ONLINE WITH NVE'S DEVELOPER DASHBOARD: www.nvenergy.com/business/newconstruction/newconstruction/developerdashboard.cfm

- RTC NOTES:**  
BACKFILL AND RIGHT OF WAY RESTORATION SHALL CONFORM TO CLARK COUNTY UNIFORM STANDARD DRAWINGS
- 500.1 0 TO 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT
  - 500.2 0 TO 5 YEARS PAVEMENT RESTORATION TRANSVERSE CUT
  - 500.3 OVER 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT. GREATER THAN 60' R.O.W
  - 500.4 OVER 5 YRS PAVEMENT RESTORATION LONGITUDINAL CUT. 60' R.O.W OR LESS
  - 500.5 OVER 5 YRS PAVEMENT RESTORATION TRANSVERSE ALL R.O.W WIDTHS
  - 501 TYPICAL UNDERGROUND UTILITY LOCATIONS IN RESIDENTIAL STREETS 60' OR LESS R.O.W.
  - 501.1 TYPICAL UTILITY UNDERGROUND LOCATIONS IN STREETS WITH GREATER THAN 60' R.O.W.
  - 503 METHOD B FOR RIGID AND FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS
  - 503.1 METHOD A FOR FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS
  - 503.2 METHOD A FOR RIGID PIPE TRENCH BACKFILL - PAVED AREAS
  - BACKFILL IN UNPAVED AREA AS REQUIRED BY LOCAL CODE OR AS APPROVED BY AGENCY.
  - 234 SIDEWALK
  - 506 UTILITY POTHOLE REPAIR



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

**CALL BEFORE YOU DIG**  
Avoid cutting underground utility lines. It's costly.  
CALL 1-702-402-2929  
OR 1-800-227-2600  
AND CLARK COUNTY TRAFFIC OPERATIONS 1-702-455-6000

**REVISIONS**

NO.	DESCRIPTION	DATE	G.A.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
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17			
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**STANDARD**

**EXHIBIT 'A'**

**NV ENERGY INFORMATION:**  
COORDINATOR: KING, JANE  
PHONE: (702)275-6263  
DESIGNER: KIRKSEY, DAVID D.F. J.M.  
DCA: N/A  
INSPECTOR: 402-3008  
STAND BY: 402-4114, 402-4117, 402-4118  
DISTRICT: LAS VEGAS NORTH

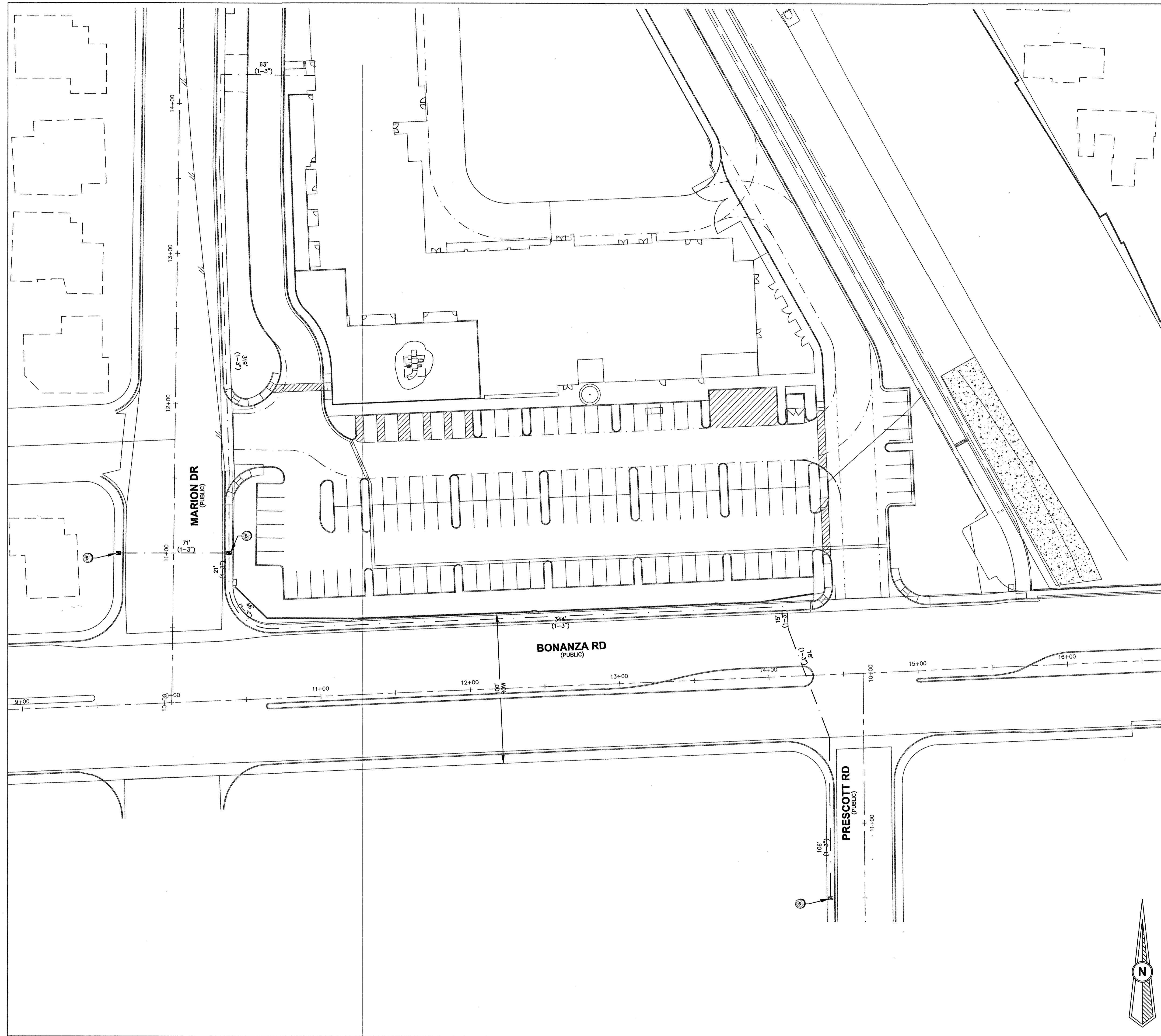
**JPA INFORMATION:**  
JPA ADMIN PHONE: N/A JPA#: N/A  
**CUSTOMER INFORMATION:**  
APPLICANT: TA LAS VEGAS 4760 EBR LLC  
ENGINEER: HARRIS CONSULTING ENGINEERS 269-1575  
CONTACT: RICH RIAL 702-376-0527

APPROVAL DATE: 10/14/2016  
**GOVERNMENT INFORMATION:**  
AGENCY: CITY OF LAS VEGAS  
APPROVAL DATE:

FOR EACH SERVICE POINT (POINT OF DELIVERY), ENERGY FOR EACH TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. ENERGY FOR ALL NON-TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. CONTACT NVE METER OPERATIONS FOR MULTIPLE RATE CLASS INSTALLATIONS.

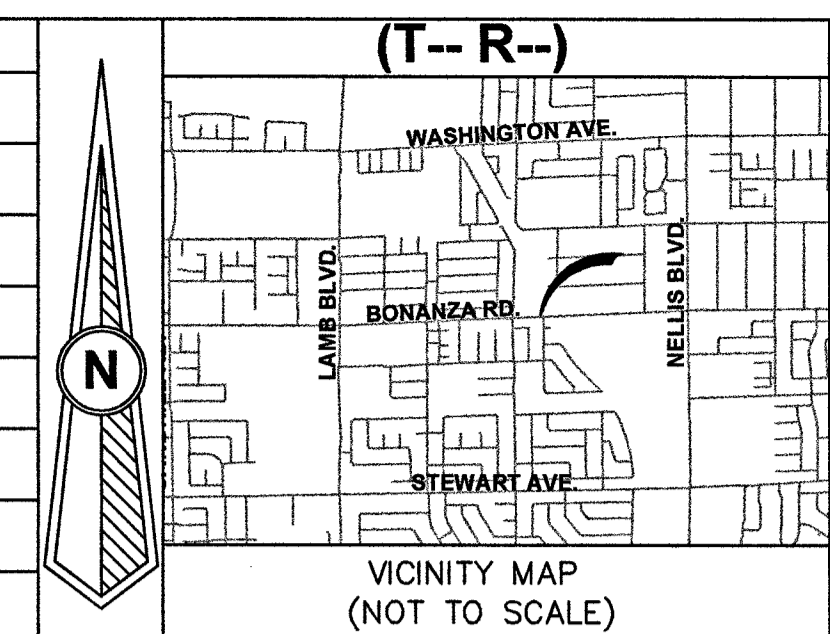
**NV Energy**  
**MATER ACADEMY BONANZA CAMPUS**  
4760 E. BONANZA RD.  
PROJ. ID: 3001511381 SCALE: 1" = 30'  
SHEET # 1 OF 2 DATE: 08/15/2016





### LEGEND

1	INSTALL B-36 PULL BOX (24"X36"X24")
2	EXISTING B-36 PULL BOX (24"X36"X24")
3	INSTALL B-50 PULL BOX (13"X24"X24")
4	EXISTING B-50 PULL BOX (13"X24"X24")
5	INSTALL B-100 PULL BOX (24"X36"X24")
6	EXISTING B-100 PULL BOX (24"X36"X24")
7	INSTALL T-200 CATV VAULT (30"X48"X36")
8	EXISTING T-200 CATV VAULT (30"X48"X36")
9	INSTALL T-400 CATV VAULT (36"X60"X36")
10	EXISTING T-400 CATV VAULT (36"X60"X36")
11	INSTALL T-600 CATV VAULT (48"X72"X36")
12	EXISTING T-600 CATV VAULT (48"X72"X36")
13	INSTALL NEW CATV PEDESTAL
14	EXISTING NEW CATV PEDESTAL
15	R&R S/W SLAB(S)
16	POTHOLE
17	—C—C—C— SIDEWALK/DIRT TRENCH INSTALL
18	—C—C—C— ASPHALT/STREET TRENCH INSTALL
19	—B—B— PROPOSED BORE
20	—X—X—X— EXISTING CATV CONDUIT(S)
21	—OHC— PROPOSED OVERHEAD FIBER OPTIC CABLE OR COAX INSTALL
22	—XOHC— EXISTING OVERHEAD FIBER OPTIC CABLE OR COAX
23	— — — U.G. FIBER/COAX PULL
24	— — — RIGHT OF WAY LINE
25	— — — LOT/PROPERTY LINE
26	..... EDGE OF PAVEMENT
27	P EXISTING NVE PULL BOX
28	T EXISTING TELCO PULL BOX
29	TM EXISTING TELCO MANHOLE
30	T EXISTING TELCO POLE
31	● EXISTING NVE POLE
32	NVE EXISTING NVE TRANSMISSION POLE
33	⊗ EXISTING JOINT POLE
34	⊗ EXISTING JOINT POLE WITH TRANSFORMER
35	⊕ POLE ANCHOR
36	TS EXISTING NVE TRANSFORMER TRANSFORMER PAD
37	TS SNWA TEST STATION
38	▲ COX POWER SUPPLY (49"X24"X52")
39	RC INSTALL RHINO CABINET
40	⊕ RISER POLE/QUADRANT DETAIL RISER OWNERSHIP NOTED
41	RAILROAD
42	MH EXISTING MANHOLE (SS),(SD)...ECT
43	--- 1in CONDUIT LATERAL
44	
45	



### REVISIONS

REV	DESCRIPTION	DATE	BY
△			

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.

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

APPROVAL: *[Signature]* DATE: 5 9 17

PERMIT #	4052016000006MAACB
DRAWN BY:	WTB
DATE:	10-3-16
SCALE:	1"=30'
NOTE:	VLP84
DESIGNER:	TRUENET
TECH #	
APPROVED BY:	

1700 VEGAS DRIVE  
 LAS VEGAS, NEVADA 89106  
 PHONE: (702) 545-1606  
 FAX: (702) 545-2606

CITY/ENTITY:  
**CITY OF LAS VEGAS**  
 333 N. RANCHO DRIVE  
 LAS VEGAS, NEVADA 89106  
 (702) 229-6885

PROJECT LOCATION:  
**MATER ACADEMY @ BONANZA**

SUB-CONTRACTOR:  
 TBD

ENTITY NOTES:  
 TBD

SHEET No:  
**1**

SHEET 1 OF 1

### DISCLAIMER NOTE

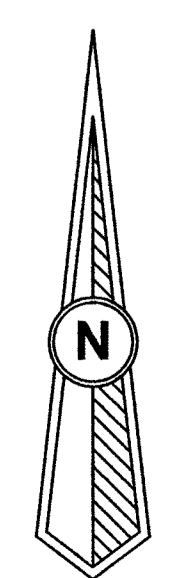
UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATIONS.

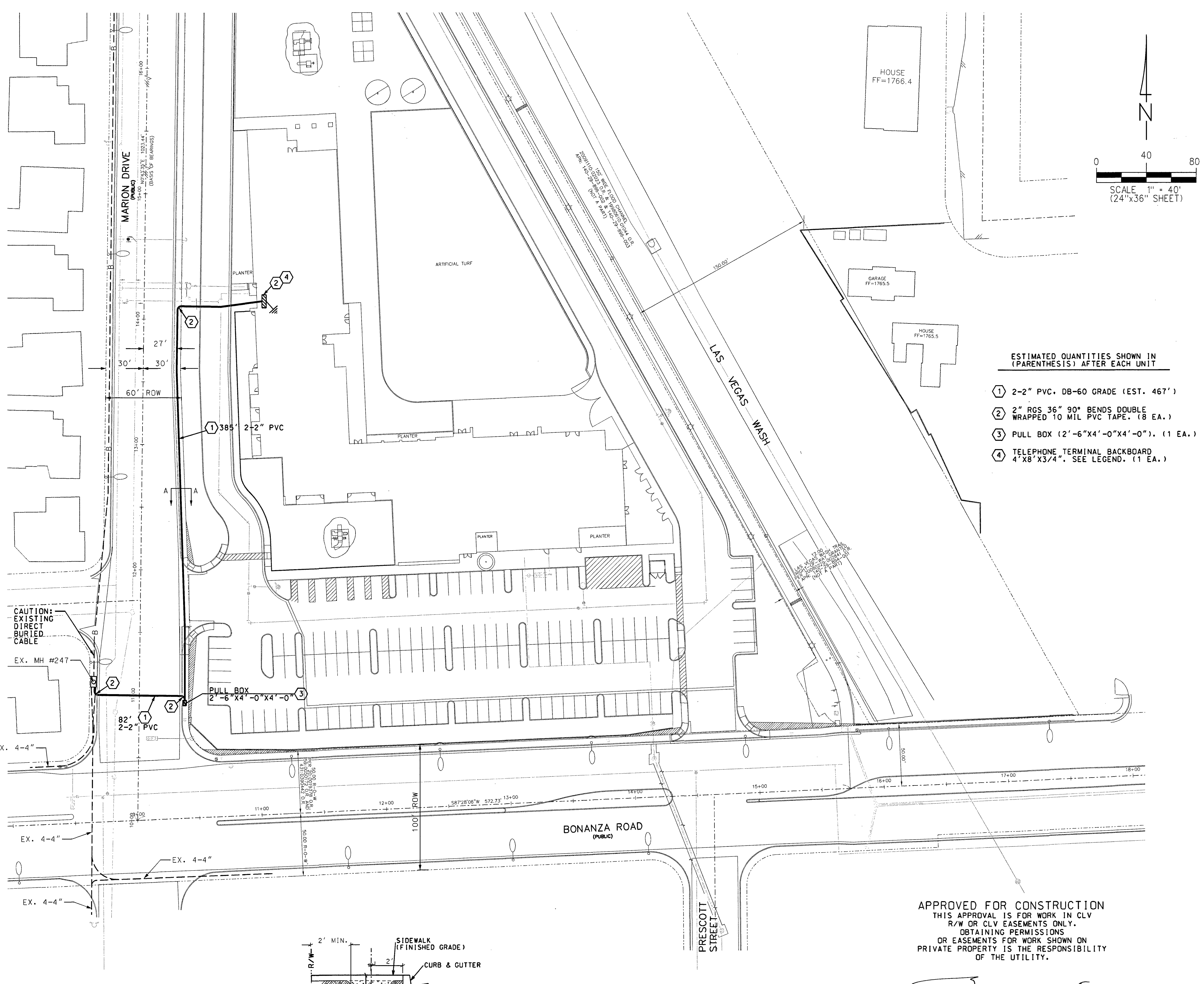
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.  
**CALL BEFORE YOU DIG**  
 OR 1-800-227-2600  
 UNDERGROUND SERVICE (USA)

AVOID OVERHEAD POWER LINE CONTACT  
**CALL BEFORE YOU OVERHEAD**  
 1-702-227-2929  
 NEVADA POWER ENVIRONMENT AND SAFETY SERVICE DEPARTMENT

BEFORE YOU DIG UNDERGROUND CLARK COUNTY TRAFFIC OPERATIONS 1-702-432-4300 LAS VEGAS AREA COMPUTERIZED SYSTEM

TOTAL BORE	-
TOTAL DIRT TRENCH	-
TOTAL ASPHALT TRENCH	-
TOTAL TRENCH	-
SIDEWALK REMOVAL/REPAIR	-
TOTAL S/W PANELS	-
TOTAL LINEAR FOOTAGE	-





### LEGEND

— PROPOSED CONDUIT: P.V.C. - D.B. (DIRECT BURIAL) GRADE: D.B. 60 FOR 2", 2' & 3" D.B. 100 FOR 4"  
 - - - EXISTING CONDUIT

**RADIAL BENDS:**  
 SCHEDULE 40 PVC (TYPICAL) OR RIGID GALVANIZED STEEL (RGS) WITH DOUBLE WRAPPED 10 MIL. CORROSION PROTECTION TAPE (AS SHOWN). 24" RADIUS FOR 1"; 36" RADIUS FOR 2"; 48" RADIUS FOR 3" & 4".

**EXISTING / PROPOSED**

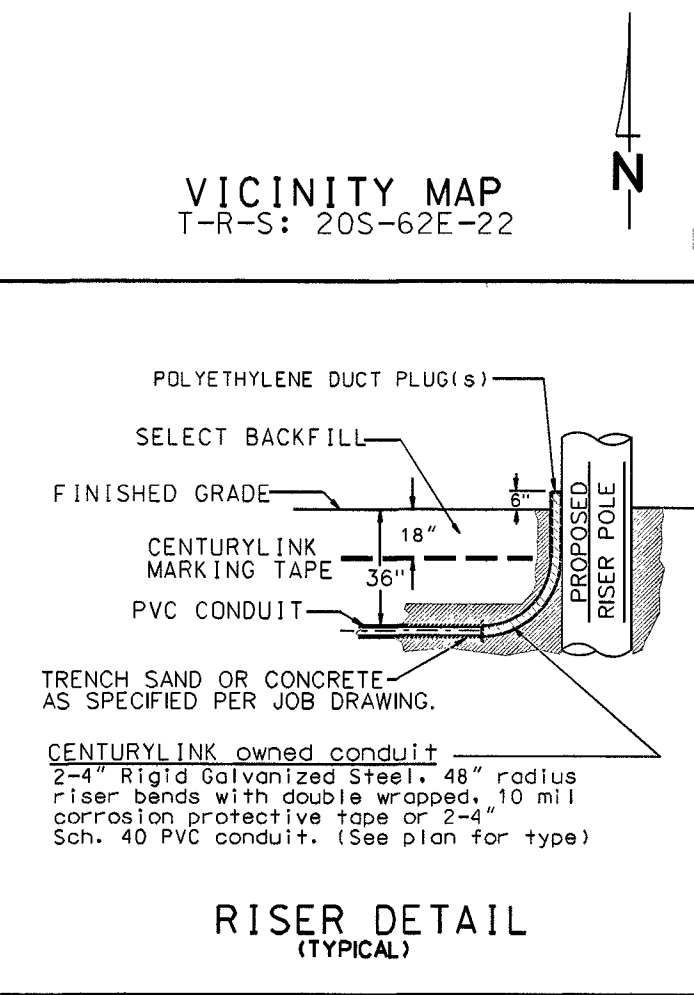
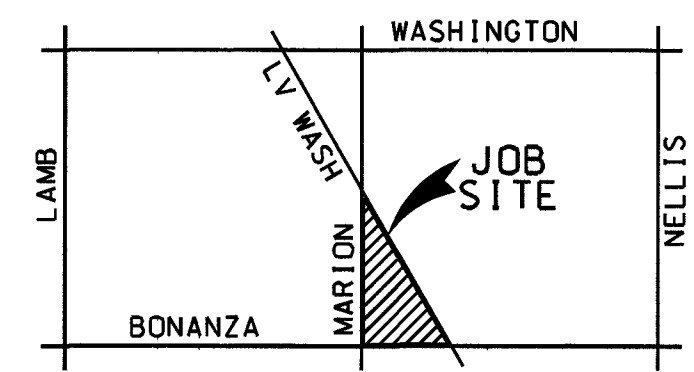
- MANHOLE - INCLUDE REQUIRED GRADE RINGS, RACKING, GROUNDING, STEP RUNGS AND LADDER - REFER TO DRAWING FOR SIZE/TYPE.
- 400 PULL BOX (3'0" x 5'0" x 4'0" I.D.) - WITH TWO (2) HINGED ALUMINUM STEEL ADJUSTING FRAME, AND FOUR (4) 18 HOLE CABLE RACKS (2 EA. SIDE).
- 200 PULL BOX (2'6" x 4'0" x 4'0" I.D.) - WITH TWO (2) H-20-44 LOADING, HOT DIP GALVANIZED BOLT DOWN BEAM & PLATE TRAFFIC COVERS MARKED 'TELCO' AND FOUR (4) 18 HOLE CABLE RACKS (2 EACH SIDE).
- 100 PULL BOX (2'0" x 3'0" x 3'0" I.D.) - WITH TWO (2) H-20-44 LOADING, HOT DIP GALVANIZED BOLT DOWN BEAM & PLATE TRAFFIC COVERS MARKED 'TELCO' AND FOUR (4) 18 HOLE CABLE RACKS (2 EACH SIDE).
- 30 PULL BOX (1'7" x 3'0" x 3'0" I.D.) - P.C.C. TYPE PULL BOX (ES-30 or T-30CC)
- 16 HAND HOLE (9" x 15" x 12" I.D.)

**EXISTING / PROPOSED**

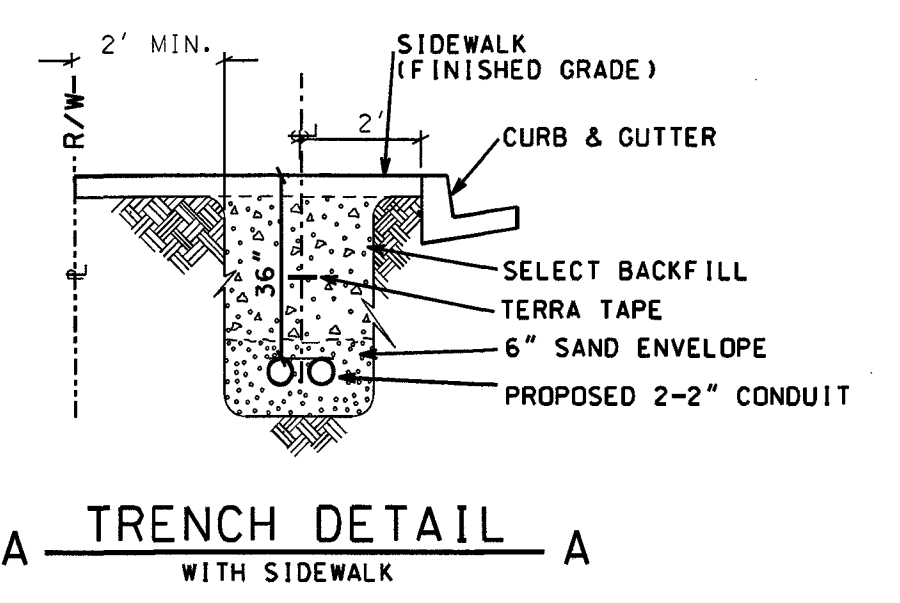
- TERMINAL CABINET (48" x 48" x 6") - UNDERWRITER LABORATORY APPROVED, RAIN-TIGHT WITH A NON-LOCKING, SLIDING DOOR EQUIPPED INSIDE WITH A 3/4" PLYWOOD BACKBOARD (1" SMALLER ON ALL SIDES, CENTERED IN CABINET) SECURED WITH RECESSED MOUNTING HARDWARE AND A # 6 GROUND WIRE CONNECTED TO THE APPROVED COMMUNICATION SOURCE AS DETERMINED BY THE ELECTRICAL ENGINEER FOR THIS BUILDING OR DEVELOPMENT. MOUNT CABINET AT EYE LEVEL A MINIMUM OF 48" ABOVE FINISH GRADE.
- TERMINAL CABINET (36" x 36" x 6") - UNDERWRITER LABORATORY APPROVED, RAIN-TIGHT WITH A NON-LOCKING, SLIDING DOOR EQUIPPED INSIDE WITH A 3/4" PLYWOOD BACKBOARD TREATED WITH FIRE RETARDANT PAINT OR SEALER AND A # 6 GROUND WIRE CONNECTED TO THE APPROVED COMMUNICATION SOURCE AS DETERMINED BY THE ELECTRICAL ENGINEER FOR THIS BUILDING OR DEVELOPMENT. BACKBOARDS SMALLER THAN 4" x 8" (i.e. 2' x 2' & 4' x 4') SHOULD BE MOUNTED 48" ABOVE THE FLOOR.
- TELEPHONE TERMINAL BACKBOARD (T.T.B.) - SEE PLAN FOR SIZE REQUIREMENTS; 3/4" PLYWOOD BACKBOARD TREATED WITH FIRE RETARDANT PAINT OR SEALER AND A # 6 GROUND WIRE CONNECTED TO THE APPROVED COMMUNICATION SOURCE AS DETERMINED BY THE ELECTRICAL ENGINEER FOR THIS BUILDING OR DEVELOPMENT. BACKBOARDS SMALLER THAN 4" x 8" (i.e. 2' x 2' & 4' x 4') SHOULD BE MOUNTED 48" ABOVE THE FLOOR.

**CONSTRUCTION NOTES**

- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST ISSUE OF THE CENTURYLINK UNDERGROUND SPECIFICATIONS.
- ALL CONDUIT, TRENCHING AND SUBSTRUCTURES ARE TO BE PROVIDED BY THE DEVELOPER AND CONFORM WITH CENTURYLINK STANDARDS. ALL BACKFILLING AND RESTORATION WORK SHALL CONFORM TO THE REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA (RTC) UNIFORM STANDARD DRAWINGS.
- WHEN EXISTING TELEPHONE FACILITIES (i.e. POLES, MANHOLES, PULL BOXES, CONDUIT, TERMINALS, etc.) ARE AFFECTED BY IMPROVEMENTS AS REQUIRED BY LOCAL ORDINANCE (i.e. STREETS, SIDEWALKS, GUTTERS, SEWERS, STORM DRAINS, etc.), THE DEVELOPER SHALL BE RESPONSIBLE FOR THE ADJUSTMENT OF THESE FACILITIES AS REQUIRED.
- TELEPHONE BOXES ARE TO BE PLACED BEHIND THE CURB LINE AND/OR IN THE SIDEWALK AREA WHENEVER POSSIBLE AND SITUATED TO AVOID DRIVEWAYS AND HANDICAP RAMPS. ALL TRENCHING WILL BE OF MINIMUM DEPTH TO MAINTAIN 36" COVER FROM FINAL GRADES TO TOP OF PIPE (EXCEPT WHEN ENTERING TELEPHONE BOXES). MAINTAIN 12" MINIMUM SEPARATION FROM FOREIGN UTILITIES. BOXES WILL BE ESTABLISHED TO FINISH GRADE.
- ALL PULL BOXES (2'-0" x 3'-0" AND LARGER) AND MANHOLES ARE TO BE GROUNDED 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.
- ALL TELEPHONE BOXES NOT IN SIDEWALK AREAS WILL BE REQUIRED TO HAVE A PROTECTIVE CONCRETE COLLAR, RE-ENFORCED WITH REBAR, POURED AROUND THE TOP PORTION OF THE BOX PER SPECIFICATIONS.
- USE EXISTING PRECAST TERMINATORS TO JOIN SUBSTRUCTURES WHENEVER POSSIBLE. IF EXISTING TERMINATORS ARE NOT AVAILABLE THEN THE CONTRACTOR SHALL CORE DRILL PLACE END BELLS AND PROPERLY GROUT THE CONDUIT INTO THE PRE-DETERMINED LOCATION. CONTACT THE CENTURYLINK INSPECTOR AT 244-7811, 24 HOURS IN ADVANCE TO DETERMINE THE EXACT ENTRANCE LOCATION. ENTERING THE SIDE OF A CENTURYLINK MANHOLE OR PULL BOX IS NOT PERMITTED UNLESS APPROVED BY CENTURYLINK.
- WHEN A PULL BOX OR MANHOLE IS SITUATED WITHIN 50' OF A POWER TRANSFORMER THE DEVELOPER/ CONTRACTOR SHALL PROVIDE AND INSTALL A #6 AWG STRANDED COPPER WIRE WITH GREEN PVC INSULATION FROM THE PULL BOX OR MANHOLE TO THE POWER TRANSFORMER (EXCLUDING 30' BOXES AND SMALLER). LEAVE A 4' FOOT TAILING END INSIDE THE SUBSTRUCTURE AND INCLUDE ALL CLAMPS NECESSARY TO FASTEN THE GROUNDING WIRE TO THE TRANSFORMER GROUND ROD OR COUNTERPOISE. THE GROUND WIRE SHALL ENTER THE SUBSTRUCTURE THROUGH THE 1" PVC GROUND SLEEVE.
- WHEN JOINING EXISTING SUB-OUTS, THE LOCATION AND VALIDITY OF THE SUB-OUTS ARE ASSUMED AND BASED OFF RECORDS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING CONDUIT SUB-OUT. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE, PROVE AND PLACE PULL STRING IN THE EXISTING CONDUIT AS PART OF CONNECTING TO THE SUB FOR EXTENSION TO THIS PROJECT. IF THE CONDUIT CANNOT BE PROVED OR IS BEING DAMAGED THEN THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR THE DUCTS WHERE DAMAGED OR INSTALL NEW CONDUIT BACK TO THE EXISTING TRUE POINT OF RE-ENFORCABLE SERVICE (i.e. POLE, MANHOLE OR PULL BOX) AT THE DEVELOPER'S EXPENSE.
- THE CONTRACTOR SHALL PROVE AND MANDEL ALL CONDUIT AFTER BACKFILLING WHILE A CENTURYLINK INSPECTOR IS PRESENT. MANDEL SIZE IS TO BE 1/4" SMALLER THAN THE INSIDE DIAMETER OF THE CONDUIT.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL A MEASURING TAPE CONSISTING OF 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" JET LINE PULL STRING WITH 400 POUND TENSILE STRENGTH.
- A POLYETHYLENE DUCT PLUG SHALL BE INSTALLED IN ALL CONDUIT WHERE TERMINATED OR STUBBED.
- CONCRETE ENCASUREMENTS 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.
- 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.
- PLYWOOD BACKBOARDS ARE TO BE TREATED WITH FIRE RETARDANT MATERIAL, PAINT, OR SEALER.
- ALL TERMINALS, BACKBOARDS, CABINETS, ETC., SHALL BE EQUIPPED WITH A #6 GAUGE GROUND WIRE, RUN TO AN APPROVED GROUND SOURCE.
- IN ORDER TO INSURE ADEQUATE FACILITIES ARE PROVIDED FOR THIS PROJECT, IT IS IMPERATIVE THAT THIS CONDUIT RECOMMENDATION NOT BE CHANGED WITHOUT CENTURYLINK OUTSIDE PLANT ENGINEERING APPROVAL.
- CENTURYLINK 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 INSPECTIONS 24 HOURS IN ADVANCE. REQUESTS RECEIVED AFTER 11:00 AM MAY NOT BE SCHEDULED FOR THE FOLLOWING WORKDAY.



- ESTIMATED QUANTITIES SHOWN IN (PARENTHESIS) AFTER EACH UNIT
- ① 2-2" PVC, DB-60 GRADE (EST. 467')
  - ② 2" RGS 36" 90° BENDS DOUBLE WRAPPED 10 MIL PVC TAPE. (8 EA.)
  - ③ PULL BOX (2'-6"x4'-0"x4'-0"). (1 EA.)
  - ④ TELEPHONE TERMINAL BACKBOARD 4'x8'x3/4". SEE LEGEND. (1 EA.)



RTC SOUTHERN NEVADA NOTES:

- FOR ASPHALT CUT AND RESTORATION REQUIREMENTS, SEE RTC UNIFORM STANDARD DRAWING SERIES 500.1, 500.2, 500.3, 500.4 AND 500.5
- FOR SIDEWALK REMOVAL AND REPLACEMENT REQUIREMENTS SEE RTC UNIFORM STANDARD DRAWING 234
- FOR TYPICAL U.G. UTILITY LOCATIONS UNDER STREETS AND SIDEWALKS, SEE RTC UNIFORM STANDARD DRAWINGS 501 AND 501.1
- FOR BACKFILL REQUIREMENTS SEE RTC UNIFORM STANDARD DRAWING 503.1
- SEE COMPLETE RTC UNIFORM STANDARD DRAWINGS FOR FURTHER AGENCY REQUIREMENTS

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

APPROVAL 67252 11/5-192-VL DATE 5 9 17

ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION WITH 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.

SERVICE CANNOT BE PROVIDED WITHOUT APPROVED OPEN TRENCH AND FINAL INSPECTION BY A CENTURYLINK INSPECTOR.

CENTURYLINK PROPRIETARY

CONSTRUCTION PERMIT REQUIRED BY CONTRACTOR

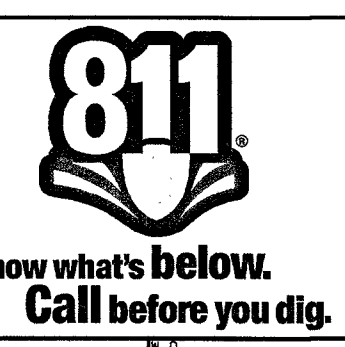
CONTRACTOR / DEVELOPER NOTE

- 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 CENTURYLINK 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 CENTURYLINK INSPECTOR WILL VERIFY CITY PERMIT FOR WORK DONE WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY INSPECTOR: DATE:	PROJECT REQUIREMENTS: <input type="checkbox"/> NOT PERMIT <input type="checkbox"/> BLM GRANT <input type="checkbox"/> BOR GRANT <input type="checkbox"/> U.S.F.S. <input type="checkbox"/> U.P.R.R. PERMIT <input type="checkbox"/> SNWA PERMIT <input type="checkbox"/> 3rd PARTY EXAMPT <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> NOT REQUIRED REMARKS:	OWNER/CONTACT: RICH RIAL-STF TELEPHONE: 702.376.0527  OSP ENGINEER: VERONICA FIGEORDA TELEPHONE: 702.244.6902
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NO.	REVISION	ENGR.	WGR.	DATE

TITLE: UNDERGROUND CONDUIT  
 DESIGNED BY: S. PEREZ  
 DATE: 702.244.1352  
 PROJECT: MATER ACADEMY  
 SHEET NO: SP  
 DATE: 1/16/17  
 SCALE: 1" = 40'  
 TOTAL SHEETS: 1 of 1



THIS DRAWING MAY SHOW APPROXIMATE LOCATIONS OF KNOWN UTILITIES IN THE IMMEDIATE VICINITY OF THE WORK TO BE DONE, BUT CENTURYLINK DOES NOT GUARANTEE OR ASSUME LIABILITY FOR THEIR POSITION OR DEPTH. CONTRACTORS SHALL DETERMINE TO THEIR SATISFACTION THE ACTUAL POSITION AND DEPTH OF EXISTING UTILITIES AS THEY WILL ASSUME THIS LIABILITY DURING THE PERFORMANCE OF THIS WORK.