









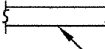






**LEGEND**

-  VZ UH #1  
TELECOMMUNICATIONS UTILITY HOLE (PAID FOR AS CONCRETE VAULT, SMALL UTILITY HOLES)  
CUH #1 = ADELPHIA UTILITY HOLE NUMBER  
VZUH #1 = VERIZON UTILITY HOLE NUMBER
-  PROPOSED SERVICE ENTRANCE (METER)  
M = BED, V = VERIZON, C = ADELPHIA
-  EXISTING SERVICE ENTRANCE (METER)  
M = BED, V = VERIZON, C = ADELPHIA
-  BELD UH #303  
BED UTILITY HOLE (PAID FOR AS CONCRETE VAULT, LARGE UTILITY HOLES)
-  BELD HH #1  
BED HANDHOLE - LARGE  
(PAID FOR AS LARGE HANDHOLE - BURLINGTON ELECTRIC DEPARTMENT)
-  BELD SHH #1  
BED HANDHOLE - SMALL  
(PAID FOR AS SMALL HANDHOLE - BURLINGTON ELECTRIC DEPARTMENT)
-  T #11  
T #1\_ = 1 # TRANSFORMER NUMBER
-  BED SWITCH VAULT (PAID FOR AS CONCRETE VAULT, PAD VAULT)
-  T #31  
BED TRANSFORMER, 3# CONCRETE PAD (PAID FOR AS CONCRETE PAD)  
T #3\_ = 3 # TRANSFORMER NUMBER
-  POLE - BELD #1 = POLE NUMBER.  
(N) = NEW  
( ) = EXISTING
-  PROPOSED UG DUCTBANK, CONCRETE ENCASED PER GENERAL NOTES.  
(PAID FOR AS DUCTS, CONCRETE ENCASED MOD 1,2,3). FOR NON ENCASED CONDUIT, PAID FOR AS DUCTS, DIRECT BURIAL (PVC)  
① = BED DUCTBANK. REFER TO SCHEDULE.  
① = VERIZON/ADELPHIA DUCTBANK. REFER TO SCHEDULE.
-  TV PEDESTAL (FURNISHED BY UTILITY, INSTALLED BY CONTRACTOR)  
C #1 = ADELPHIA PEDESTAL, VZ #1 = VERIZON PEDESTAL
-  CAPPED DUCTBANK
-  PROPOSED CONDUITS FOR SERVICES (NON-ENCASED)  
(PAID FOR AS DUCTS, DIRECT BURIAL (PVC))  
UE = (3) 2 1/2" C FOR BED  
UT = (1) 2" FOR VERIZON  
UC = (1) 2" FOR ADELPHIA
-  EXISTING BED PRIMARY UNDERGROUND WITHIN CONSTRUCTION LIMITS (IN SERVICE)  
UE = BED, UT = VERIZON, UC = ADELPHIA

**DRAWING NOTES:**

1. APPROXIMATE LOCATION OF DUCTBANK TO TRANSFORMER AT #617 RIVERSIDE AVENUE. VERIFY EXACT LOCATIONS IN FIELD TO INTERCEPT EXISTING CIRCUITS. COORDINATE ALL WORK WITH UTILITIES. BELD HH#1 SHALL BE SET ON TOP OF EXISTING BED CONDUITS ((3) 4") TO ALLOW INTERCEPTION. BELD HH#1 SHALL BE SPECIAL ORDER 30" DEEP HANDHOLE IN LIEU OF 48"; ALL OTHER DETAILS SAME AS 48" DETAIL.
2. RUN SEPARATE (1) 2" CONDUIT FOR VERIZON AND (1) 2" CONDUIT FOR ADELPHIA TO HOUSE #1 AND #2 VERMONT PARK, OFF HILLSIDE TERRACE; TOTAL OF (4) 2" CONDUITS; (2) EACH FROM VZ#5 AND C#7. AVOID EXISTING GAS AND SEWER LINES. CONDUITS FOR HOUSE #2 TO SWEEP UP NEW POLE (N)BELD #5 PER NOTE 15.
3. CONNECT NEW 4" VERIZON TO EXISTING 4" STUBBED UNDER STREET. VERIFY EXACT LOCATION IN FIELD.
4. REFER TO BED DUCTBANK 12 AND VERIZON/ADELPHIA DUCTBANK 5 FOR DETAILS ON HOW TO SWEEP CONDUITS UP POLE. POLE SET BY BED/VERIZON.
5. VERIFY CONDUITS AVOID LOCATION OF PROPOSED ANCHOR.
6. REFER TO BED DUCTBANK 13 FOR DETAILS ON HOW TO SWEEP CONDUITS UP POLE. LOCATE BOLLARD ON SOUTH SIDE OF POLE TO PROTECT CONDUITS. POLE SET BY BED/VERIZON.
7. (E) VZUH#1 AND VERIZON DUCTBANKS FROM (N) BELD #1796 TO (N) BELD #1501 ARE THE APPROXIMATE LOCATIONS OF EXISTING VERIZON UTILITY HOLE AND DUCTBANK. VERIFY EXACT LOCATIONS IN FIELD. PROPOSED BED AND ADELPHIA DUCTBANKS IN THIS AREA TO RUN PARALLEL TO THESE DUCTBANKS AS SHOWN.
8. ROUTE NEW DUCTBANKS ADJACENT TO EXISTING BED CONDUITS IN THIS AREA. RUN IN GRASS WHERE FEASIBLE. REPAIR SIDEWALK TO MATCH ORIGINAL CONDITION. ALL CONDUITS RUN TO EXISTING POLE ON HILLSIDE TERRACE. STUB UP PER POLE DETAILS.
9. TRANSFORMERS T#31 AND T#12 SHALL BE LOCATED IN GREEN AREA DIRECTLY UNDER EXISTING AERIAL CIRCUITS AND WITHIN CHAMPLAIN OIL PROPERTY TO KEEP WITHIN BED RIGHT OF WAY. VERIFY EXACT LOCATION IN FIELD. FRONT DOORS OF T#31 TO FACE WEST; T#12 EAST. PLACE BOLLARDS AS SHOWN TO PROTECT FROM TRAFFIC FROM EAST AND WEST SIDES.
10. BED METER LOCATION SHALL BE MOVED TO AVOID EXISTING GAS LINES AND/OR OTHER UTILITIES. STUB CONDUITS UP AT NEW LOCATION. COORDINATE EXACT LOCATION WITH BED.
11. TRANSFORMERS T#32, T#13 AND T#14 SHALL BE LOCATED SUCH THAT T#32 TO BE LOCATED WITHIN KOFFEE KUP BAKERY PROPERTY AND T#13 AND T#14 TO BE LOCATED WITHIN PROPERTY OF CUMBERLAND FARMS. FRONT DOORS FOR T#32 TO FACE EAST; T#13 AND T#14 WEST. PLACE BOLLARDS AS SHOWN ON TRAFFIC SIDE TO PROTECT FROM TRAFFIC.
12. AT #436 RIVERSIDE AVENUE (KOFFEE KUP BAKERY) ELECTRIC SERVICE ENTRANCE, RUN (4) 4" BED CONDUITS FROM TRANSFORMER T#32 TO EXISTING ~~JUNCTION BOX ON WEST WALL~~ (480 VOLT SERVICE). COORDINATE WITH BED TO PREPARE THE CONDUITS TO INTERCEPT THE EXISTING JUNCTION BOX. VERIFY EXACT LOCATION OF VERIZON AND ADELPHIA STUBS IN FIELD. **POLE**
13. VERIFY EXACT LOCATION IN FIELD FOR TRANSFORMER. FRONT DOORS FOR T#33 TO FACE NORTH. KEEP MINIMUM 10 FEET FROM TREES/SHRUBS TO EAST.
14. LOCATE VERIZON AND ADELPHIA PEDESTALS WITHIN PROPOSED LANDSCAPED AREA BETWEEN CAR WASH AND NEW SIDEWALK/BIKEPATH. FRONT DOORS FOR ALL EQUIPMENT TO FACE SOUTH. LOCATE TO PREVENT ANY WATER FROM SPRAYING ON EQUIPMENT. **POLE DELETED**
15. SWEEP (3) 2 1/2" BED FROM BELD HH#9, (1) 2" ADELPHIA FROM C#7 AND (1) 2" VERIZON FROM VZ#5 UP POLE. VERIFY CONDUITS AVOID PROPOSED NEW SIDEWALK BY RUNNING UP EAST AND WEST SIDE OF POLE.
16. SET BELD HH#11 TO INTERCEPT EXISTING BED CONDUITS/CIRCUITS IN SIDEWALK. COORDINATE EXACT LOCATION WITH BED.
17. STUB (2) 4" VERIZON CONDUITS TO ALLOW INTERCEPTION OF EXISTING CONDUITS IN THIS AREA. COORDINATE EXACT LOCATION WITH VERIZON.
18. SWEEP (2) 4" BED FROM BELD HH#12, (1) 2" ADELPHIA FROM C#8 AND (1) 4" VERIZON UP POLE. VERIFY CONDUITS AVOID PROPOSED NEW SIDEWALK BY RUNNING UP EAST AND WEST SIDES OF POLE.
19. SET NEW SWITCHGEAR VAULT PER DETAILS. COORDINATE EXACT LOCATION AND ORIENTATION WITH BED.
20. (4) 4" VERIZON TO CONNECT TO EXISTING EMPTY (4) 4" VERIZON NEAR THIS LOCATION. VERIFY EXACT LOCATION IN FIELD.
21. RUN (1) 2 1/2" BED CONDUITS FROM T#17 TO HANDHOLE FOR TRAFFIC. COORDINATE EXACT ROUTE AND LOCATIONS IN FIELD.
22. SWEEP (2) 4" BED FROM BELD HH#15, (1) 2" ADELPHIA FROM C#6 AND (2) 4" VERIZON UP POLE. VERIFY CONDUITS AVOID PROPOSED NEW SIDEWALK BY RUNNING UP EAST AND WEST SIDES OF POLE.
23. LOCATE BELD UH#360 TO INTERCEPT EXISTING ENERGIZED BED CONDUITS. COORDINATE EXACT LOCATION IN FIELD. PER TAKE-OFF DIAGRAM, SET BOTTOM HALF OF UTILITY HOLE UNDER CIRCUIT, THEN SET TOP HALF OVER CIRCUIT BY PROVIDING NOTCH IN NORTH AND SOUTH WALL. PROVIDE WATERPROOF MORTAR SEAL AROUND CONDUITS AT THESE LOCATIONS.
24. STUB (4) 4" BED CONDUITS 24" NORTH OF EXISTING CURB AND CAP BELOW GRADE. RUN PARALLEL AND ADJACENT TO EXISTING BED DUCTBANK.
25. SET BELD HH#16 WITHIN NEW SIDEWALK. STUB (3) 2 1/2" BED CONDUITS FROM HANDHOLE, TO AVOID EXISTING RETAINING WALL, ADJACENT TO ADELPHIA AND VERIZON CONDUITS RUNNING FROM PEDESTALS TO #236 RIVERSIDE AVE. SET HANDHOLE OVER ABANDONED 6" SEWER PIPE; REMOVE PIPE AS NECESSARY.
26. RUN (1) 4" VERIZON CONDUIT TO INTERCEPT EXISTING 4" CONDUIT RUNNING FROM POLE BELD #2539 TO #236 RIVERSIDE AVENUE. VERIFY EXACT LOCATION IN FIELD. COORDINATE WITH VERIZON TO INTERCEPT EXISTING CIRCUIT.
27. STUB (3) 2 1/2" BED, (1) 2" ADELPHIA AND (1) 2" VERIZON THROUGH RETAINING WALL, UNDER SIDEWALK, 36" BELOW STREET GRADE LEVEL. EXTEND (1) 2 1/2" BED AND BOTH VERIZON AND ADELPHIA CONDUITS ALONG NORTH SIDE OF RETAINING WALL AND WEST SIDE OF HOUSE TO EXISTING SERVICE ENTRANCES. VERIFY EXACT ROUTES AND DISTANCES IN FIELD. CONDUITS SHALL RUN TO BED METER AND VERIZON AND ADELPHIA HOUSE PENETRATION LOCATIONS TO ALLOW INTERCEPTION OF EXISTING CIRCUITS.
28. SET BELD HH#18 TO INTERCEPT EXISTING BED CONDUITS/CIRCUITS IN SIDEWALK. COORDINATE EXACT LOCATION WITH BED. BELD HH#18 SHALL BE SPECIAL ORDER 30" DEEP HANDHOLE IN LIEU OF 48"; ALL OTHER DETAILS SAME AS 48" DETAIL.
29. (1) 2" ADELPHIA RUN FROM C#11 ACROSS STREET TO POLE BELD #35 TO INTERCEPT EXISTING CIRCUIT AT POLE. COORDINATE EXACT LOCATION WITH ADELPHIA IN FIELD.
30. SET VZUH#4 MINIMUM 24" NORTH OF EXISTING WATER LINE AND SOUTH OF EXISTING SEWER. DISTANCE FROM TOP OF UTILITY HOLE TO FINISHED GRADE MAY BE REDUCED TO 12".
31. METERS AND SERVICE ENTRANCES LOCATED ON NORTH SIDE OF BUILDING. SWEEP CONDUITS UP TO INTERCEPT EXISTING METER AND WALL PENETRATIONS. COORDINATE EXACT LOCATIONS WITH UTILITIES IN FIELD.
32. ENTIRE DUCTBANK FROM BELD UH#361 SHALL BE RUN UNDER EXISTING AERIAL CIRCUITS TO REMAIN WITHIN BED RIGHT OF WAY (20' WIDE CENTERED ON POLE LINE). ROUTE ALONG WEST SIDE OF EXISTING DRIVEWAY TO AVOID DAMAGE TO PAVEMENT. REMOVE ABANDONED POLE NET 36 1/2 AS NEEDED. ENTIRE DUCTBANK FROM UH#361 SOUTH TO BE ENCASED IN CONCRETE.
33. RUN SEPARATE (1) 2" CONDUIT FOR VERIZON AND (1) 2" CONDUIT FOR ADELPHIA TO #189 RIVERSIDE AVENUE AND #183 RIVERSIDE AVENUE; TOTAL OF (4) 2" CONDUITS; (2) EACH FROM VZ#10 AND C#12 PEDESTALS.
34. SET VERIZON PEDESTAL VZ#10 AND ADELPHIA PEDESTAL C#12 TO INTERCEPT EXISTING CIRCUITS AT POLE BELD #2526. COORDINATE EXACT LOCATIONS IN FIELD WITH UTILITIES.
35. SET BED SMALL HANDHOLE SHH#2 TO ALLOW CIRCUITS TO #182 RIVERSIDE AVENUE AND #184 RIVERSIDE AVENUE TO REMAIN WITHIN OWNERS PROPERTY LINES AS THEY PASS THROUGH RETAINING WALL. DO NOT ALLOW CIRCUITS FROM HANDHOLE TO CROSS BOTH PROPERTY LINES.
36. RUN (1) 4" BED UP TO NEW 24" X 24" X 8" DEEP JUNCTION DIRECTLY BELOW EXISTING METERS. OTHER 4" FROM BED DUCTBANK 62 TO BE STUBBED AND CAPPED 12" ABOVE GRADE DIRECTLY BELOW JUNCTION BOX.
37. COORDINATE WITH RETAINING WALL CONTRACTOR TO PROVIDE CONCRETE ENCASED 10" SLEEVE THROUGH WALL FOR EACH (3) 2 1/2" BED CONDUIT RUN AND FOR EACH (1) 2" VERIZON, (1) 2" ADELPHIA CONDUIT RUN SERVICES
38. SET VERIZON PEDESTAL VZ#12 AND ADELPHIA PEDESTAL C#14 TO INTERCEPT EXISTING CIRCUITS AT POLE BELD #2519. COORDINATE EXACT LOCATIONS IN FIELD WITH UTILITIES.
39. SET BED SMALL HANDHOLE SHH#3 TO INTERCEPT EXISTING BED CONDUITS TO #140 RIVERSIDE AVENUE IN GREENBELT/LANDSCAPED AREA. COORDINATE EXACT LOCATION WITH BED.
40. TRANSFORMERS T#34, T#11 AND T#12 SHALL BE LOCATED ALONG FACE OF PROPOSED PARKING AREA CURB. FRONT DOORS TO FACE SOUTH. PLACE BOLLARDS AS SHOWN TO PROTECT FROM TRAFFIC.
41. RUN (2) 4" BED TO OUTSIDE WALL OF BUILDING (AT GARAGE DOOR) AND CAP. ROUTE TO ALLOW CONDUITS TO BE EXTENDED (BY OTHERS) TO CURRENT TRANSFORMER CABINET INSIDE TRUCK BAY.
42. RUN (2) 2" CONDUITS FROM C#7 TO EXISTING CABLE TV CONDUITS. STUB AT CONDUITS FOR FUTURE TRANSFERS.

**GENERAL NOTES**

1. REFER TO SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.
2. THESE DRAWINGS ARE FOR INSTALLATION OF ELECTRIC (BED), TELEPHONE (VERIZON) AND CABLE TV (ADELPHIA) ONLY.
3. USE THE MINIMUM PVC DUCT BEND RADII INDICATED BELOW UNLESS OTHERWISE NOTED IN THE PLANS.

UTILITY	NOM. DIA.	VERTICAL BEND	HORIZONTAL BEND	
BED	2 1/2" 3" - 4"	2" - 0" 3" - 0"	4' - 0" 3' - 8" - 0"	3' HORIZ. BEND OK - J. ASKEW 6-13-05
VERIZON/ADELPHIA	2" - 4"	3" - 0"	15' - 0" 3' VZ	3' HORIZ. BEND OK - J. ASKEW 6-13-05

4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION OF UNDERGROUND UTILITIES AND ENTRY POINTS TO BUILDINGS OF EXISTING UNDERGROUND SERVICE IN THE FIELD BEFORE DIGGING. SERVICE SHALL BE MAINTAINED AT ALL TIMES.
5. THE CONTRACTOR SHALL REPLACE, IN KIND, CONCRETE, ASPHALT, LAWN AND ANY OTHER SURFACES AND SUB-BASES ENCOUNTERED AND DISTURBED WHEN TRENCHING FOR DUCT WORK OR WHEN PLACING UTILITY EQUIPMENT OUTSIDE THE TYPICAL HIGHWAY CONSTRUCTION LIMITS. \*PAYMENT TO BE INCIDENTAL TO THE 624 DUCTS ITEMS.
6. DUCT BANK ELEVATIONS SHOWN ARE CONTINGENT ON ACTUAL ELEVATIONS OF EXISTING SERVICE LINES AS LOCATED IN THE FIELD. CONTRACTOR SHALL MAINTAIN 6" CLEAR FOR TRANSVERSE CROSSINGS BETWEEN SERVICE AND DUCT BANK OR AS DIRECTED BY THE ENGINEER. REFER TO X-SECTION DRAWING FOR ADDITIONAL INFORMATION. AT CROSSINGS BED DUCTBANK SHALL BE RUN BENEATH GAS, VERIZON AND ADELPHIA, AND ABOVE WATER, SEWER, STORM PIPING, UNLESS NOTED OTHERWISE.
7. TOPO AND DESIGN FEATURES SHOWN DEPICT RIVERSIDE AVE. AND SURROUNDING AREA AS EXISTING AND COMPLETED PROJECT. CONTRACTOR TO CONSULT THE "HIGHWAY" PLANS FOR DEFINITION OF ANY EXISTING FEATURES.
8. IN GENERAL, ALL CONDUITS SHALL BE IN CONCRETE, PER SPECIFICATIONS, WITHIN STREET, WITHIN 24" OF STREET IN GREENBELT AND WITHIN 12" OF BED HANDHOLES FOR BED CONDUITS. CONDUITS IN GRASS OR SIDEWALK, UNLESS NOTED OTHERWISE, ARE NOT REQUIRED TO BE ENCASED. CONDUITS IN DRIVEWAYS OR OTHER LIGHT VEHICULAR TRAFFIC AREAS MAY BE EITHER ENCASED SCHEDULE 40 OR NON- ENCASED SCHEDULE 80 CONDUIT.
9. ALL TREES AND SHRUBS THAT MUST BE MOVED DURING CONSTRUCTION SHALL BE MOVED AS DIRECTED IN OTHER PORTIONS OF PROJECT.
10. B.E.D. SHALL PROVIDE A FULL TIME INSPECTOR WHEN NECESSARY DURING CONTRACTOR EXCAVATION, INSTALLATION AND BACK-FILL OPERATION. BEFORE BACKFILLING TRENCH, CONTACT B.E.D. DISTRIBUTION DEPARTMENT (TEL. # 865-7463), WHO WILL SCHEDULE THE INSPECTION OF THE NEW SYSTEM LOCATION AND DEPTH. ALL WORK IS SUBJECT TO INSPECTION AND APPROVAL OF B.E.D. NON-COMPLYING CONSTRUCTION WILL BE BROUGHT INTO COMPLIANCE AS DIRECTED AT THE EXPENSE OF THE CONTRACTOR. IT IS THE RESPONSIBILITY OF THE INSTALLER TO NOTIFY B.E.D. PRIOR TO BACKFILLING. IF NOTICE IS NOT GIVEN, B.E.D. SHALL HAVE THE RIGHT TO REQUIRE ANY OR ALL TO BE EXPOSED FOR VISUAL INSPECTION AT THE EXPENSE OF THE CONTRACTOR.
11. B.E.D. ENCASED CONDUIT SHALL BE POURED INDEPENDENTLY OF OTHER UTILITIES. CONTRACTOR SHALL MAINTAIN MINIMUM 12" SPACING, UNLESS NOTED OTHERWISE, BETWEEN ALL PARALLEL DUCTBANK RUNS. NO FOREIGN CONDUITS, PIPES, ETC. SHALL BE POURED WITHIN B.E.D. CONDUIT ENCASEMENT; CONTRACTOR SHALL PROVIDE FORMS AS NEEDED FOR POUR TO KEEP FOREIGN CONCRETE ENCASED CONDUITS SEPARATE AND ADJACENT TO B.E.D. CONCRETE ENCASED CONDUITS. IT IS THE RESPONSIBILITY OF THE INSTALLER TO NOTIFY B.E.D. PRIOR TO BACKFILLING. IF NOTICE IS NOT GIVEN, B.E.D. SHALL PROVIDE FORMS TO ALLOW 12" BACKFILL SPACING BETWEEN CONCRETE.
12. IN ALL LOCATIONS WHERE EXISTING AERIAL SERVICES ARE REPLACED WITH UNDERGROUND, CONTRACTOR SHALL SWEEP CONDUIT 12" ABOVE FINISHED GRADE DIRECTLY BELOW METER OR OTHER UTILITY/BUILDING INTERCONNECTION POINT, UNLESS NOTED OTHERWISE.

REV. #	DRAWN BY:	PLOT DATE:	DESCRIPTION/APPROVAL/DATE
<b>BURLINGTON ELECTRIC DEPARTMENT</b>			
BURLINGTON, VERMONT			
<b>LEGEND AND NOTES</b>			
DRAWN BY:	JFT	SCALE:	NONE
ORIGINAL DATE:	06/02/04	CHECKED BY/DATE	
DWG. NO.:	D8010100		
SHEET	83 OF 252		