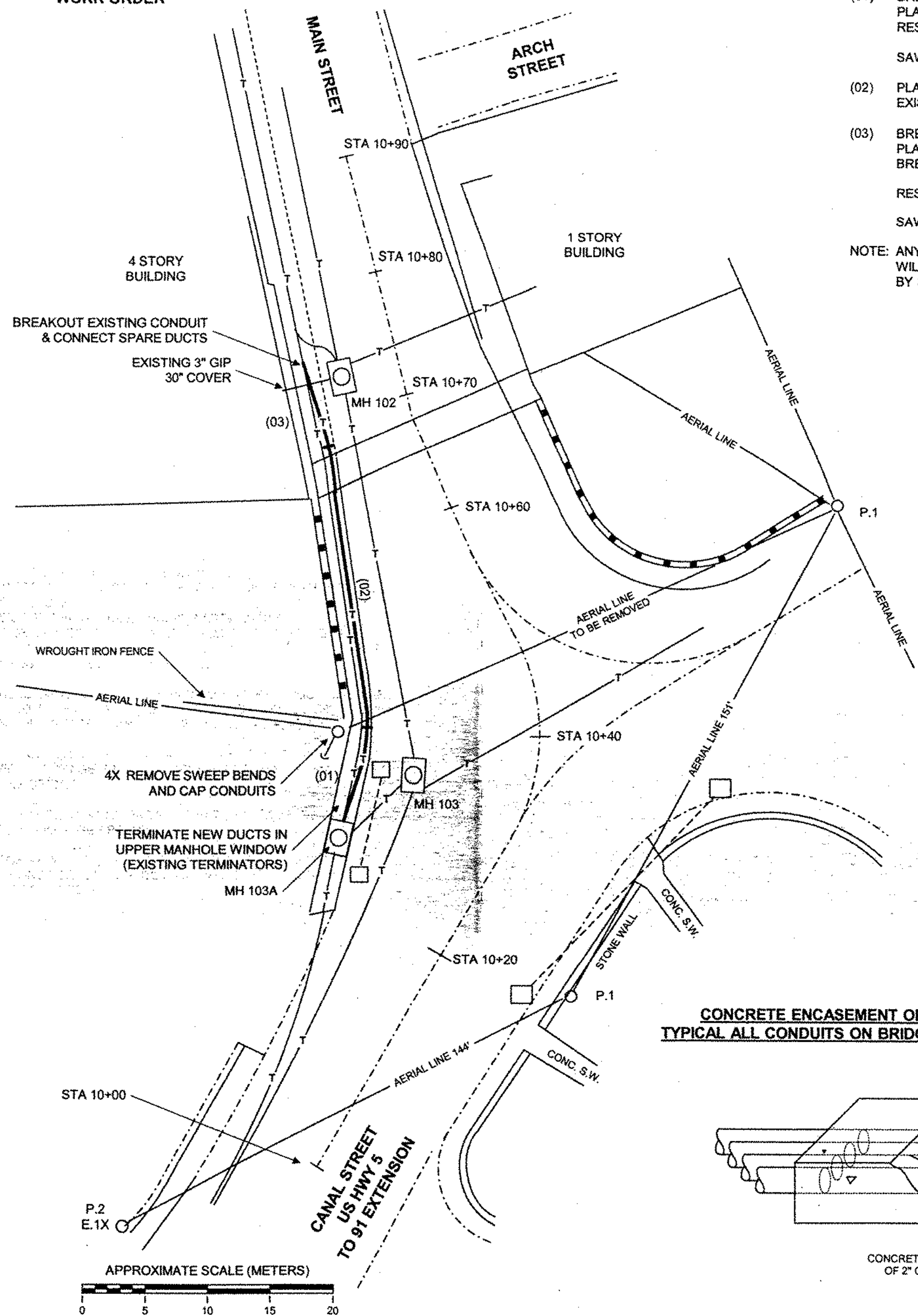


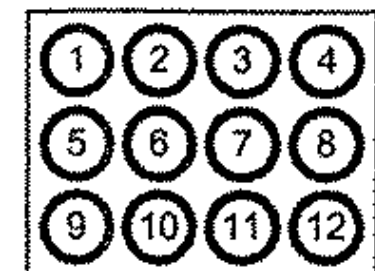
**WORK ORDER**



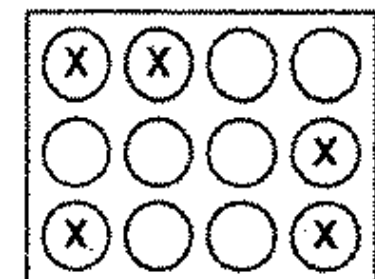
- (01) BREAKOUT 4" CONCRETE SIDEWALK FOR 35' (19.5 SQ YDS)  
PLACE 12 4" C-PLASTIC CONDUIT, CONCRETE ENCASED.  
RESTORE SIDEWALK AREA WITH 2" ASPHALT (20 SQ YDS)  
COMPACTED GRAVEL (7 CU YDS)  
SAW CUT 4" CONCRETE (5')
  - (02) PLACE 8 FIBERGLASS CONDUITS TEMPORARILY SUPPORTED ON TOP OF EXISTING I-BEAM. (SEE DETAIL DRAWINGS)
  - (03) BREAKOUT 4" CONCRETE SIDEWALK FOR 30' (17 SQ YDS)  
PLACE 12 "C" PLASTIC CONDUIT, CONCRETE ENCASED.  
BREAKOUT EXISTING CONDUIT AND CONNECT SPARE DUCTS.  
SAND ENCASE FOR FUTURE REARRANGEMENTS  
RESTORE SIDEWALK AREA WITH 2" ASPHALT (20 SQ YDS)  
COMPACTED GRAVEL (5.5 CU YDS)  
SAW CUT 4" CONCRETE (5')
- ITEM # 158A  
ITEM # 61C  
ITEM # 153B  
ITEM # 141  
ITEM # 173
- ITEM # 158A  
ITEM # 61C
- SCHED C  
ITEM # 153B  
ITEM # 141  
ITEM # 173

NOTE: ANY SIDEWALK, CURB, OR PAVED ROADWAY THAT IS REMOVED WILL BE RESTORED WITH 2" ASPHALT PENDING REPLACEMENT BY STATE BRIDGE CONTRACT

**MH 103A FACING BRIDGE**

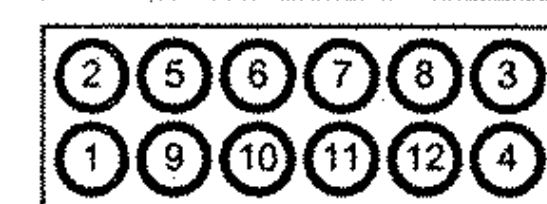


TERMINATE 12 NEW CONDUITS



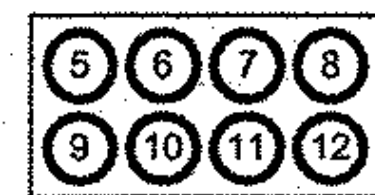
EXISTING CONDUITS

**NEW FORMATION AT BRIDGE ABUTMENT 5" STEEL SLEEVES THROUGH BRIDGE HEADWALL**



NOTE: DUCTS 1 THROUGH 4 ARE TO BE TERMINATED IN THREADED COUPLINGS FLUSH MOUNTED IN BRIDGE HEADWALL FOR EXTENSION ON PHASE "B"

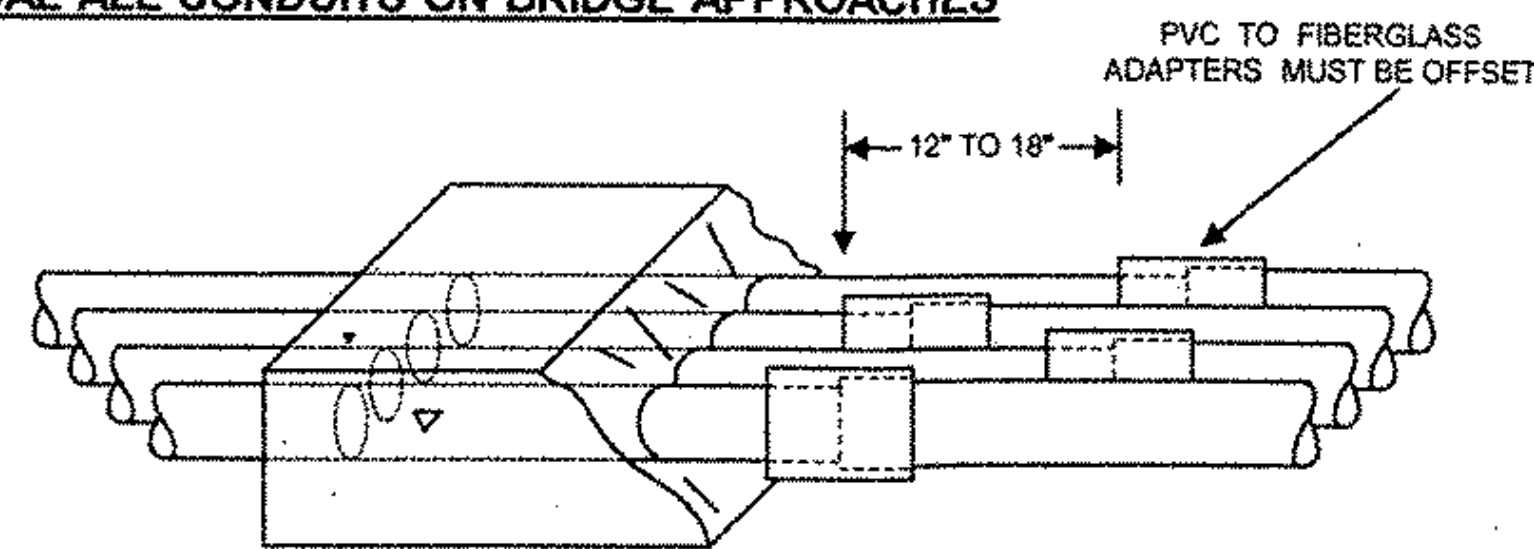
**NEW FORMATION ON BRIDGE PHASE "A"**



**NEW FORMATION ON BRIDGE PHASE "B"**



**CONCRETE ENCASEMENT OF CONDUITS  
TYPICAL ALL CONDUITS ON BRIDGE APPROACHES**



CONCRETE ENCASE CONDUITS WITH A MINIMUM OF 2" ON TOP, BOTTOM AND SIDES AND 1" BETWEEN CONDUITS

7AA01S  
Notice: Not for Use/disclosure outside of VERIZON without written agreement

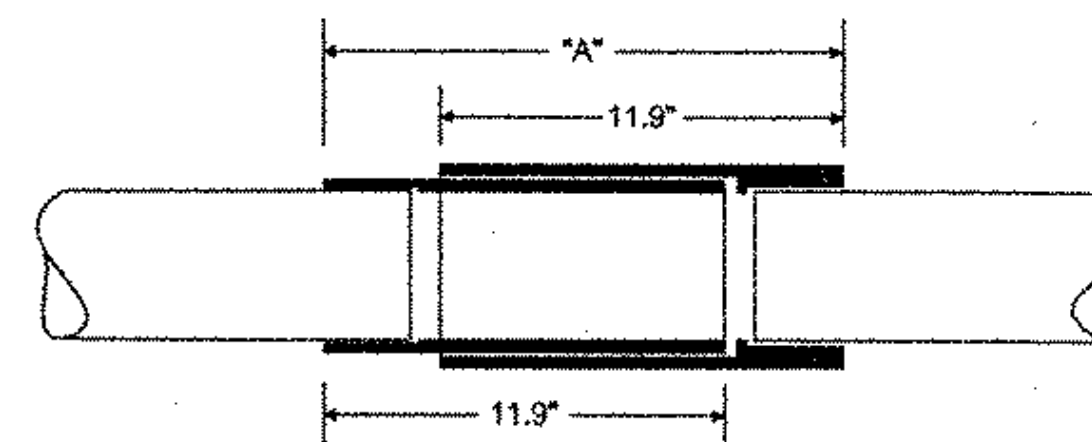
**VERIZON**

SAFETY NOTES: <b>NO SURVEY MADE</b>	MODREV NO.	DATE	EWV NO. <b>7AA01S</b>
			PRINT <b>13</b> OF
			PREPARED BY: <b>NEIL E. SNYDER</b>
			C.O. /EXCHANGE NAME: <b>BRATTLEBORO</b>
SIGNATURE	DATE	RECORD REF:	C.O. /EXCHANGE CODE:
	1/30/2002	7B	4731
PRE CT YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	UNDERGROUND	BLOCK (NYT)	MUNICIPALITY:
7.2 KV MGN SYSTEM	CONDUIT		<b>BRATTLEBORO</b>
CABLE PRESS. UNDER PRESS. YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	AMT. BRIDGE TAP	MANHOLE LOCATION MH#	NA
TRANSMISSION 26GA LIMIT YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			KF

**GENERAL NOTES:**

- THE CONTRACTOR IS REQUIRED TO COMPLY WITH ALL NATIONALLY ACCEPTED SAFETY PRACTICES.
- THE CONTRACTOR IS REQUIRED TO COMPLY WITH ALL LOCAL, STATE, FEDERAL AND VERIZON REGULATIONS.
- BELL ATLANTIC WILL OBTAIN THE NECESSARY STATE AND LOCAL PERMITS REQUIRED TO COMPLETE THE TELEPHONE WORK ON THE BRIDGE AND BRIDGE APPROACHES.
- THE DESIGN CABLE LOAD IS 7.0 POUNDS PER FOOT FOR EACH OF TWELVE DUCTS. THE TOTAL CONDUIT AND HANGER LOAD AT EACH SUPPORTS 1644 LB.. BASED ON A NOMINAL SPACING OF 17.2 FEET.
- THE TEMPORARY UTILITY SUPPORTS ARE TO BE FABRICATED FROM 3" x 1/4" CHANNEL STEEL AND WELDED TO THE TOP OF THE EXISTING VERIZON I-BEAM.
- THE CONTRACTOR MUST LOCATE AND PROTECT ALL EXISTING UNDERGROUND CONDUITS DURING EXCAVATION ON BRIDGE APPROACHES.
- SPECIFIED FIBERGLASS CONDUIT AMERICAN U-TEL [PN 12370]
  - A. 4" DIAMETER FIBERGLASS DUCTS WITH THREADED JOINTS WITH 3000 LB. PULLOUT STRENGTH.
  - B. ULTIMATE TENSILE STRENGTH 10,000 PSI PER ASTM D-2105.
  - C. 4" IPS 4.5" OUTSIDE DIAMETER x 4.36" INSIDE DIAMETER x 30 FT LENGTHS.
  - D. CAPABLE OF HANGER SUPPORT SPANS OF 17.2' FOR 7 LBS. PER FT. CABLE BASED ON LESS THAN 5/8" MIDSPAN DEFLECTION.
- ALL DRAWINGS ARE BASED ON AVAILABLE CONTRACT DRAWINGS WHICH MAY VARY FROM ACTUAL AS-BUILT CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL PERTINENT DIMENSIONS BEFORE FABRICATION OR INSTALLATION.
- CONDUIT DRAINAGE. THE CONTRACTOR SHALL INSURE THAT ALL CONDUITS ARE SLOPED TO PROVIDE DRAINAGE FROM THE BRIDGE TO THE FIRST MANHOLE ON EITHER SIDE OF THE BRIDGE.
- GASKETED EXPANSION JOINTS MUST BE PRESET FOR THE AMBIENT TEMPERATURE AT THE TIME OF INSTALLATION. (SEE BELOW)
- ALL CONDUIT ON BRIDGE APPROACHES IS TO BE CONCRETE ENCASED WITH A MINIMUM OF 2" OF CONCRETE ON TOP, BOTTOM, AND SIDES. DUCTS WILL BE SEPARATED BY 1" OF CONCRETE

**TYPICAL EXPANSION JOINT**  
12 EACH NORTH END OF BRIDGE



PRESET LENGTH "A" BASED ON AMBIENT TEMPERATURE	
-20° F	17.0"
0° F	17.2"
20° F	17.4"
40° F	17.5"
60° F	17.6"
80° F	17.8"
100° F	18.0"

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