

| ITEM NO. | ITEM DESCRIPTION                                                                              | UNIT   | QUANTITY |
|----------|-----------------------------------------------------------------------------------------------|--------|----------|
| 1B       | 6" x 20" NEW STRAIGHT GRANITE CURB ON NEW FOUNDATION                                          | LF     | 1,011    |
| 1C       | 8" x 20" NEW STRAIGHT GRANITE CURB ON NEW FOUNDATION                                          | LF     | 41       |
| 2B       | 6" x 20" NEW STRAIGHT GRANITE CURB ON EXISTING FOUNDATION                                     | LF     | 22       |
| 4        | RESET STRAIGHT GRANITE CURB ON EXISTING FOUNDATION                                            | LF     | 887      |
| 5        | CURB ENDS TRIMMED                                                                             | EA     | 49       |
| 6        | NEW RADIUS GRANITE CURB                                                                       | LF     | 581      |
| 10A      | REMOVAL OF EXISTING GRANITE CURB                                                              | LF     | 508      |
| 12A      | ADJUST MANHOLE IN CONCRETE BASE                                                               | EA     | 3        |
| 12C      | ADJUST WATER GATE IN CONCRETE BASE                                                            | EA     | 6        |
| 13A      | HARTFORD TYPE "C" REVISED CATCH BASIN                                                         | EA     | 10       |
| 13B      | HARTFORD TYPE "CL" CATCH BASIN                                                                | EA     | 1        |
| 13C      | CONVERT CATCH BASIN TO MANHOLE                                                                | EA     | 3        |
| 14B      | 12" PLASTIC P.V.C. PIPE                                                                       | LF     | 24       |
| 15       | REMOVE CATCH BASIN                                                                            | EA     | 8        |
| 23C      | 4" REINFORCED CONCRETE SLAB ON NEW 8" FOUNDATION UNDER PROPOSED SIDEWALK                      | SF     | 25,500   |
| 28       | SAW CUT                                                                                       | LF     | 2,792    |
| 32       | SITE PREPARATION                                                                              | LS     | 1        |
| 33       | PARTIAL DEPTH REMOVAL OF CONCRETE BASE                                                        | SY     | 333      |
| 34G      | 21" ROADWAY EXCAVATION                                                                        | SY     | 102      |
| 34H      | 27" SIDEWALK EXCAVATION                                                                       | SY     | 796      |
| 36       | FORMATION OF SUBGRADE                                                                         | SY     | 390      |
| 37       | PROCESSED TRAPROCK BASE                                                                       | TON    | 1,300    |
| 40C      | HILL EXISTING PAVEMENT TO SPECIFIED DEPTH                                                     | SY     | 12,000   |
| 41B      | CONSTRUCT NEW 8" REINFORCED CONCRETE PAVEMENT BASE ON PREPARED 6" PROCESSED STONE SUBBASE     | SY     | 371      |
| 47A      | BITUMINOUS CONCRETE BINDER COURSE                                                             | TON    | 1,604    |
| 47B      | BITUMINOUS CONCRETE SURFACE COURSE                                                            | TON    | 963      |
| 50C      | SET NEW CONCRETE MERESTONE                                                                    | EA     | 3        |
| 51A      | GRANITE CARRIAGEWAY 36" X 18" X 2"                                                            | SF     | 2,014    |
| 51AA     | GRANITE CARRIAGEWAY 36" X 16" X 2"                                                            | SF     | 41       |
| 51B      | GRANITE BAND (CROSSWALK)                                                                      | SF     | 1,197    |
| 51BB     | GRANITE BAND (BUSLANE)                                                                        | SF     | 672      |
| 51C      | GRANITE PAVEMENT                                                                              | SF     | 1,351    |
| 51D      | GRANITE COBBLE                                                                                | SF     | 842      |
| 52       | ETCHED CONCRETE PAVING                                                                        | SF     | 20,754   |
| 53       | BRICK PAVING                                                                                  | SF     | 22,349   |
| 54A      | TRASH RECEPTACLE                                                                              | EA     | 12       |
| 54B      | TREE GRATE AND FRAME 6' X 6'                                                                  | EA     | 20       |
| 54C      | TREE GUARD                                                                                    | EA     | 20       |
| 54D      | BUS SHELTER W/BENCHES                                                                         | EA     | 5        |
| 54E      | SPARE SITE FURNISHINGS                                                                        | LS     | 1        |
| 55       | GRANITE PLANTER                                                                               | EA     | 6        |
| 56       | GRANITE BOLLARDS 30" W/FOOT.                                                                  | EA     | 22       |
| 57       | STEEL CHAIN                                                                                   | LF     | 130      |
| 60       | MISCELLANEOUS EXTRA WORK                                                                      | LS     | 1        |
| 66A      | ACER PLATANOIDES                                                                              | EA     | 7        |
| 66B      | TILIA CORDATA                                                                                 | EA     | 13       |
| 66C      | PLANTING GROUP                                                                                | EA     | 6        |
| 68       | 12" WHITE PREFORMED PLATIC PAVEMENT MARKINGS                                                  | LF     | 1,526    |
| 69       | 4" YELLOW PREFORMED PLASTIC PAVEMENT MARKINGS                                                 | LF     | 11,782   |
| 70       | 4" WHITE PREFORMED PLASTIC PAVEMENT MARKINGS                                                  | LF     | 12,032   |
| 71       | PREFORMED PLASTIC PAVEMENT MARKINGS - SYMBOLS AND LEGEND                                      | SF     | 162      |
| 72       | CONSTRUCTION SIGNS                                                                            | SF     | 311      |
| 75       | BARRICADE WARNING LIGHTS                                                                      | EA/DAY | 5,565    |
| 76       | TRAFFIC DRUMS                                                                                 | EA/DAY | 5,565    |
| 80A      | TEMPORARY PRECAST CONCRETE BARRIER CURB                                                       | LF     | 1,080    |
| 80B      | RELOCATED TEMPORARY PRECAST CONCRETE BARRIER CURB                                             | LF     | 2,580    |
| 82       | TEMPORARY PRECAST CONCRETE BARRIER CURB (15"X32")                                             | LF     | 320      |
| 83       | TEMPORARY BARRIER DELINEATORS                                                                 | EA     | 70       |
| 84       | TREE REMOVAL                                                                                  | EA     | 6        |
| 85A      | TEMPORARY SAND INERTIAL BARRIER MODULE (700 LB)                                               | EA     | 4        |
| 85B      | TEMPORARY SAND INERTIAL BARRIER MODULE (1400 LB)                                              | EA     | 16       |
| 85C      | TRANSFER OF SAND INERTIAL BARRIER MODULE                                                      | EA     | 45       |
| 93       | BITUMINOUS WATERPROOFING                                                                      | SF     | 8,300    |
| 94       | SIDEWALK HEATING MATS                                                                         | SF     | 312      |
| 95       | RESET EXISTING 18" GRANITE CARRIAGE CURB                                                      | SF     | 150      |
| 130      | 400W HPS ORNAMENTAL LUMINAIRE, 9 FT. CROSS ARM, AND 30 FT. FLUTED POLE ON EXISTING FOUNDATION | EA     | 18       |
| 131      | 400W HPS ORNAMENTAL LUMINAIRE, 9 FT. CROSS ARM, AND 30 FT. FLUTED POLE ON NEW FOUNDATION      | EA     | 14       |
| 132      | 400W HPS ORNAMENTAL LUMINAIRE, ON 9 FT. CROSS ARM ON TRAFFIC POLE                             | EA     | 7        |
| 133      | 2" POLYVINYL CHLORIDE CONDUIT                                                                 | LF     | 1,600    |
| 134      | #10 AWG. CONDUCTOR                                                                            | LF     | 3,600    |
| 135      | #6 AWG. CONDUCTOR                                                                             | LF     | 4,000    |
| 140      | TRENCHING AND BACKFILLING                                                                     | LF     | 2,140    |
| 190      | CLASS "A" CONCRETE                                                                            | CY     | 330      |
| 191      | REINFORCING STEEL                                                                             | LB     | 19,522   |
| 192      | ANCHOR BOLTS                                                                                  | LB     | 1,820    |
| 193A     | 1/2" JOINT FILLER                                                                             | SF     | 740      |
| 193B     | 3/4" JOINT FILLER                                                                             | SF     | 40       |
| 194      | EXCAVATION - DRILLED HOLE FOR CAISSON                                                         | EA     | 26       |
| 195      | RESET FLAGPOLE                                                                                | EA     | 1        |

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|----------|------------------------------------------------------------------|------|----------|
| 1002201  | TRAFFIC CONTROL FOUNDATION - COMBINATION SPAN POLE               | EA   | 2        |
| 1002202  | TRAFFIC CONTROL FOUNDATION - MAST ARM                            | EA   | 10       |
| 1002203  | TRAFFIC CONTROL FOUNDATION - PEDESTAL - TYPE 1                   | EA   | 2        |
| 1002205  | TRAFFIC CONTROL FOUNDATION - CONTROLLER - TYPE 2                 | EA   | 2        |
| 1002208  | TRAFFIC CONTROL FOUNDATION - CONTROLLER - TYPE 4                 | EA   | 1        |
| 1008115  | 2" RIGID METAL CONDUIT IN TRENCH                                 | LF   | 605      |
| 1008117  | 3" RIGID METAL CONDUIT IN TRENCH                                 | LF   | 530      |
| 1008215  | 2" RIGID METAL CONDUIT UNDER ROADWAY                             | LF   | 845      |
| 1008217  | 3" RIGID METAL CONDUIT UNDER ROADWAY                             | LF   | 285      |
| 1008906A | CLEAN EXISTING CONDUIT                                           | HR   | 32       |
| 1010001  | CONCRETE HANDHOLE (30" X 30")                                    | EA   | 13       |
| 1102002  | 8' ALUMINUM PEDESTAL                                             | EA   | 1        |
| 1102008  | 4' - 4" ALUMINUM PEDESTAL                                        | EA   | 1        |
| 1103002A | STEEL COMBINATION SPAN POLE                                      | EA   | 2        |
| 1104020A | STEEL MAST ARM ASSEMBLY                                          | EA   | 10       |
| 1105007A | 2 WAY, 3 SECTION SPAN WIRE TRAFFIC SIGNAL                        | EA   | 2        |
| 1105008A | 2 WAY, 4 SECTION SPAN WIRE TRAFFIC SIGNAL                        | EA   | 2        |
| 1105103A | 1 WAY, 3 SECTION MAST ARM TRAFFIC SIGNAL                         | EA   | 8        |
| 1105105A | 1 WAY, 5 SECTION MAST ARM TRAFFIC SIGNAL                         | EA   | 2        |
| 1105107A | 2 WAY, 3 SECTION MAST ARM TRAFFIC SIGNAL                         | EA   | 3        |
| 1105111A | 3 WAY, 3 SECTION MAST ARM TRAFFIC SIGNAL                         | EA   | 2        |
| 1105601A | LANE CONTROL SIGNAL                                              | EA   | 33       |
| 1106001A | 1 WAY PEDESTRIAN SIGNAL - POLE MOUNTED                           | EA   | 5        |
| 1106002A | 2 WAY PEDESTRIAN SIGNAL - POLE MOUNTED                           | EA   | 8        |
| 1106003A | 1 WAY PEDESTRIAN SIGNAL - PEDESTAL MOUNTED                       | EA   | 1        |
| 1107001A | PEDESTRIAN PUSH BUTTON AND SIGN - POLE MOUNTED                   | EA   | 13       |
| 1107002A | PEDESTRIAN PUSH BUTTON AND SIGN - PEDESTAL MOUNTED               | EA   | 2        |
| 1108004A | PRETIMED EXPANSIBLE MASTER-LOCAL CONTROLLER (4-DIAL)             | EA   | 1        |
| 1108005A | PRETIMED EXPANSIBLE LOCAL CONTROLLER 4-DIAL SOLID STATE (TYPE P) | EA   | 2        |
| 1111032A | LOOP VEHICLE DETECTOR - 2 CHANNEL                                | EA   | 3        |
| 1111451A | LOOP DETECTOR SAWCUT                                             | LF   | 330      |
| 1113005  | 2 CONDUCTOR NO. 8 AWG TYPE SE                                    | LF   | 110      |
| 1113050A | 2 CONDUCTOR NO. 14 CABLE (LOOP LEAD IN)                          | LF   | 2,020    |
| 1113102  | 5 CONDUCTOR NO. 14 CABLE                                         | LF   | 10,485   |
| 1113103  | 7 CONDUCTOR NO. 14 CABLE                                         | LF   | 2120     |
| 1113104  | 9 CONDUCTOR NO. 14 CABLE                                         | LF   | 5590     |
| 1113106  | 12 CONDUCTOR NO. 14 CABLE                                        | LF   | 285      |
| 1113109  | 21 CONDUCTOR NO. 14 CABLE                                        | LF   | 145      |
| 1113430A | COMMUNICATIONS CABLE NO. 19 AWG - 12 PAIR                        | LF   | 510      |
| 1113431A | COMMUNICATIONS CABLE NO. 19 AWG IN SNET DUCT                     | LF   | 2015     |
| 1113399  | CABLE CLOSURE                                                    | EA   | 1        |
| 1114102  | SPAN WIRE                                                        | LF   | 140      |
| 1118012A | REMOVAL AND/OR RELOCATION OF TRAFFIC SIGNAL EQUIPMENT            | LS   | 1        |
| 1118101A | TEMPORARY SIGNALIZATION                                          | LS   | 1        |
| 1118122A | INTERNALLY ILLUMINATED SIGN                                      | EA   | 16       |
| 1208908  | SIGN FACE - SHEET ALUMINUM (ENCAPSULATED LENS)                   | SF   | 15       |

|                                                                                               |                  |                   |
|-----------------------------------------------------------------------------------------------|------------------|-------------------|
| SUPPLEMENTAL INFORMATION                                                                      |                  |                   |
| CITY OF HARTFORD, CONNECTICUT<br>DEPARTMENT OF PUBLIC WORKS<br>BUREAU OF ENGINEERING SERVICES |                  |                   |
| HARTFORD PEDESTRIAN TRANSIT PROJECT                                                           |                  |                   |
| ESTIMATED QUANTITIES                                                                          |                  |                   |
| SUBMITTED                                                                                     | RECOMMENDED      | APPROVED          |
| PROJECT ENGINEER                                                                              | DIVISION MANAGER | CITY ENGINEER ESB |
| DRAWN                                                                                         | SCALE            | DAYBOOK NO.       |
| CHECKED                                                                                       |                  | DATE              |

|          |         |            |             |  |
|----------|---------|------------|-------------|--|
| Δ        | 2/28/90 |            |             |  |
|          |         |            |             |  |
|          |         |            |             |  |
| REVISION | MADE BY | CHECKED BY | DESCRIPTION |  |

SHEET NO. C-3.1