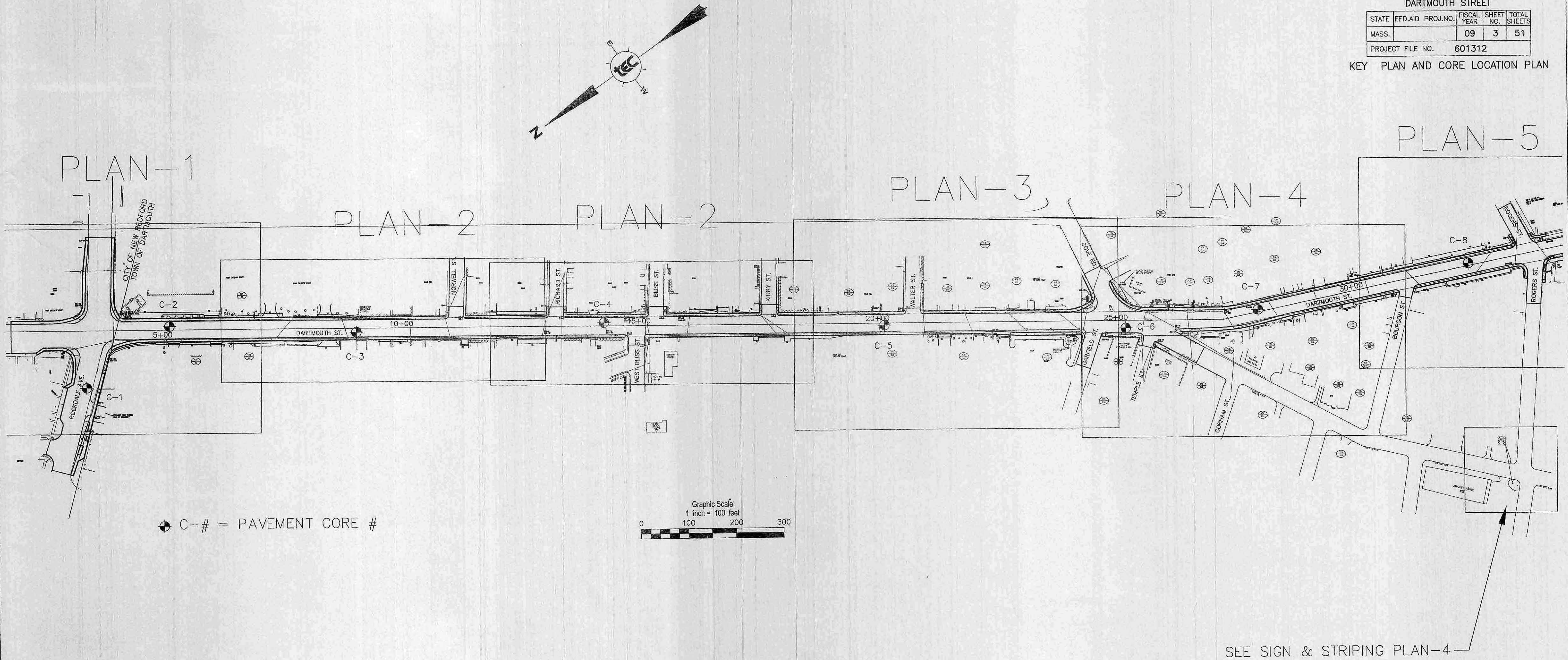


| STATE            | FED.AID | PROJ.NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|------------------|---------|----------|-------------|-----------|--------------|
| MASS.            |         |          | 09          | 3         | 51           |
| PROJECT FILE NO. |         |          | 601312      |           |              |

KEY PLAN AND CORE LOCATION PLAN



CORE HOLE LOGS

|                                                                                                    |                                                                                             |                                                       |                                                        |                                                                  |                                                                                        |                                                                                     |                                                                                    |
|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| CORE HOLE # <u>C-1</u><br>DATE: <u>NOV. 28, 2007</u>                                               | CORE HOLE # <u>C-2</u><br>DATE: <u>NOV. 28, 2007</u>                                        | CORE HOLE # <u>C-3</u><br>DATE: <u>NOV. 28, 2007</u>  | CORE HOLE # <u>C-4</u><br>DATE: <u>NOV. 28, 2007</u>   | CORE HOLE # <u>C-5</u><br>DATE: <u>NOV. 28, 2007</u>             | CORE HOLE # <u>C-6</u><br>DATE: <u>NOV. 28, 2007</u>                                   | CORE HOLE # <u>C-7</u><br>DATE: <u>NOV. 28, 2007</u>                                | CORE HOLE # <u>C-8</u><br>DATE: <u>NOV. 28, 2007</u>                               |
| TOP OF PAVEMENT                                                                                    | TOP OF PAVEMENT                                                                             | TOP OF PAVEMENT                                       | TOP OF PAVEMENT                                        | TOP OF PAVEMENT                                                  | TOP OF PAVEMENT                                                                        | TOP OF PAVEMENT                                                                     | TOP OF PAVEMENT                                                                    |
| 2.3" BITUMINOUS DENSE MIX                                                                          | 1.5" BIT. TOP COURSE                                                                        | 2.5" BIT DENSE MIX                                    | 2.5" BIT DENSE MIX                                     | 2.0" LAYER BITUMINOUS DENSE MIX                                  | 3.0" BIT. TOP MIX                                                                      | 1 1/4" BIT. DENSE MIX                                                               | 1 1/4" BIT. DENSE MIX                                                              |
| 2.7" BITUMINOUS TOP MIX                                                                            | 1.0" PENETRATION (3/4") MACADAM                                                             | 1.0" PENETRATION (3/4") MACADAM                       | 1.0" PENETRATION (3/4") MACADAM                        | COULD NOT PENETRATE STONE MACADAM IN THIS LOCATION. (BIT JAMMED) | 1.0" PENETRATION (3/4") MACADAM                                                        | 1.0" BIT. TOP MIX                                                                   | 1.0" BIT. TOP MIX                                                                  |
| 4.5" GRAY MEDIUM & FINE SAND, SOME FINE GRAVEL, LITTLE COARSE SAND, TRACE SILT. (MA GRAVEL BORROW) | 2.5" PENETRATION MACADAM (2" MAX. SIZE CRUSHED STONE)                                       | 3.5" PENETRATION MACADAM (2" MAX. SIZE CRUSHED STONE) | 3.25" PENETRATION MACADAM (2" MAX. SIZE CRUSHED STONE) | BOTTOM OF HOLE @ 2"                                              | 4 3/4" PENETRATION MACADAM (2" MAX. SIZE CRUSHED STONE)                                | 1 3/4" PENETRATION (3/4") MACADAM                                                   | 1 3/4" PENETRATION (3/4") MACADAM                                                  |
| REFUSAL STONE @ BOTTOM OF TEST HOLE                                                                | 4.0" THICK CRUSHED MAX. 2" STONE SIZE                                                       | 7.0" 2.75" 3/4" CRUSHED PROCESSED GRAVEL              | 3" DENSE GRADED 1 1/2" CRUSHED STONE                   |                                                                  | 5 3/4" COARSE & MED. SAND, SOME COARSE & FINE GRAVEL, LITTLE FINE SAND (GRAVEL BORROW) | 4 3/4" PENETRATION MACADAM (2" MAX. SIZE CRUSHED STONE)                             | 3.0" PENETRATION MACADAM (2" MAX. SIZE CRUSHED STONE)                              |
|                                                                                                    | 9.0" 10" COARSE & MED. SAND, SOME FINE GRAVEL, LITTLE FINE SAND, TRACE SILT (GRAVEL BORROW) | 9.75" BOTTOM OF HOLE STONE REFUSAL                    | BOTTOM OF HOLE STONE REFUSAL                           |                                                                  | 8.75" 14.5" BOTTOM OF HOLE                                                             | 8.25" 8.5" YELLOW/BR. MED. & FINE SAND, LITTLE FINE GRAVEL, COARSE SAND, TRACE SILT | 7.0" 2.0" YELLOW/BR. MED. & FINE SAND, LITTLE FINE GRAVEL, COARSE SAND, TRACE SILT |
|                                                                                                    | 19" BOTTOM OF HOLE                                                                          |                                                       |                                                        |                                                                  |                                                                                        | 16.75" BOTTOM OF HOLE                                                               | 9.0" BOTTOM OF HOLE STONE REFUSAL                                                  |