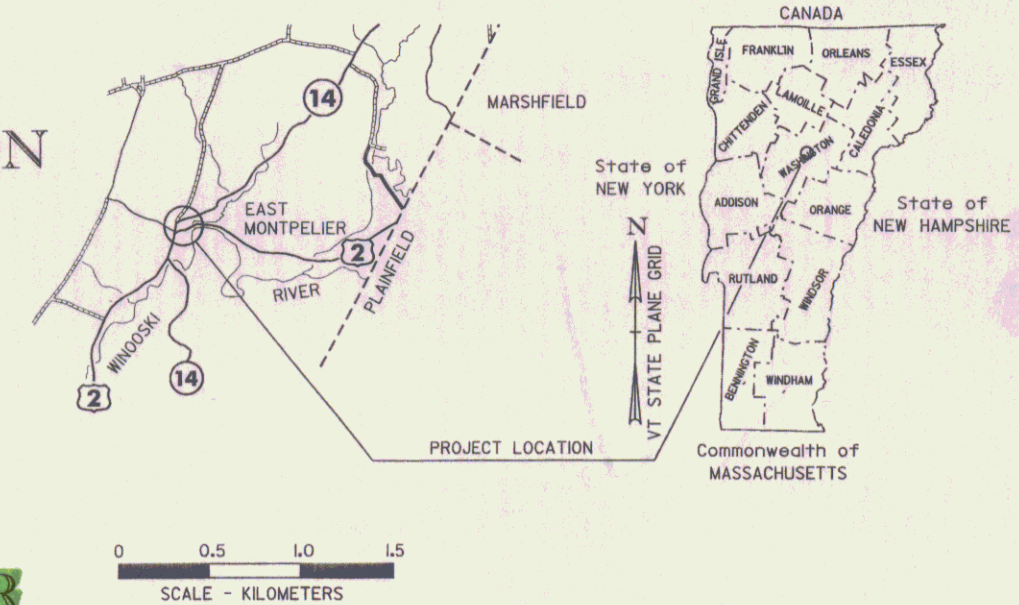


STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
TOWN OF EAST MONTPELIER
COUNTY OF WASHINGTON
U.S. ROUTE 2 & VT 14



R. O. W. PLANS

BEGIN RELINQUISHMENT
AREA #1

QUAKER HILL ROAD TH#25
STA. 40+019.69
6.95M (22.8') RT.

END MAINTENANCE
AGREEMENT ZONE NO. 1

QUAKER HILL ROAD TH#25
STA. 40+017.99
0.78M (2.6') CL.

BEGIN MAINTENANCE
AGREEMENT ZONE NO. 1

QUAKER HILL ROAD TH#25
STA. 40+005.83 CL

BEGINNING AT A POINT, IN THE TOWN OF EAST MONTPELIER, ON U.S. RTE. 2, AT APPROXIMATELY 4.720
KILOMETERS EAST OF THE BARRE / EAST MONTPELIER TOWNSHIP LINE AND EXTENDING EASTERLY 0.180 KILOMETERS.
ALSO, THE RELOCATION OF VT 14, BEGINNING AT STATION 4+800 ON U.S. RTE. 2
AND EXTENDING NORTHERLY FOR 0.189 KILOMETERS.

LENGTH OF ROADWAY, US 2 = 0.180 KILOMETERS
LENGTH OF ROADWAY, VT 14 = 0.189 KILOMETERS
LENGTH OF ROADWAY = 0.369 KILOMETERS

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES THE RECONSTRUCTION OF THE
U.S. RTE 2 AND VT. RTE. 14 INTERSECTION ALONG A NEW ALIGNMENT, ALONG WITH NEW DRAINAGE,
SUBBASE, PAVEMENT, TRAFFIC SIGNALS, PAVEMENT MARKINGS, AND OTHER RELATED ROADWAY ITEMS.

LENGTH OF ROW PROJECT = 0.348 KILOMETERS (0.216 MILES)

LINE SHOWN ON THIS PLAN AS EXISTING
PROPERTY LINES P/L ARE BELIEVED TO
BE ACCURATE BUT SHOULD NOT BE RELIED
UPON FOR PURPOSES UNRELATED TO THE
STATE OF VERMONT'S ACQUISITION OF LAND
AND RIGHTS FOR THIS PROJECT.

END MAINTENANCE
AGREEMENT ZONE NO. 2

KELTON ROAD TH#39
STA. 30+015.84 CL
LENGTH 8.3M (27.2')

Pin # 14R001
Date 6/13/2007

END RELINQUISHMENT
AREA #1

STA. 14+145.86
13.63M LT. (34.7')

BEGIN MAINTENANCE
AGREEMENT ZONE NO. 2

KELTON ROAD TH#39
STA. 30+007.51

BEGIN R. O. W. PROJECT
STPG 028-3(35) S
STA. 4+646.45 CL
MP 2.884

CONVENTIONAL SYMBOLS

COUNTY LINE	— — — — —
TOWN LINE	— — — — —
LIMITS OF ACCESS	— — — — —
POINT OF ACCESS	X
FENCE LINE	X — — — — — X
STONE WALL	— — — — —
TRAVELED WAY	— — — — —
RAILROAD	— — — — —
SURVEY LINE	— — — — —
CULVERT	— — — — —
POWER POLE	— — — — —
TELEPHONE POLE	— — — — —
TREES	— — — — —
CONTROL OF ACCESS	— — — — —
PROPERTY LINE	— — — — —
R.O.W. TAKING LINE	— — — — —
SLOPE RIGHTS	— — — — —
TOP OF CUT	— — — — —
TOE OF SLOPE	— — — — —

ALL DRIVES AS INDICATED ON PLANS
ARE SUBJECT TO PERMITS PURSUANT
TO TITLE 19 SECTION IIII, V.S.A.

SURVEYED BY : VTRANS
SURVEYED DATE : SEPTEMBER 1998

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

END R. O. W. PROJECT
STPG 028-3(35) S

STA. 4+994.83
4.86M RT. MP 3.100

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING
CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY
ADMINISTRATION OR THE DIRECTOR OF PROGRAM
DEVELOPMENT.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE
WITH THESE PLANS AND THE STANDARD SPECIFICATIONS
FOR CONSTRUCTION DATED 2006, AS APPROVED BY THE
FEDERAL HIGHWAY ADMINISTRATION ON JUNE 15, 2006
FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT
REVISIONS AND SUCH REVISED SPECIFICATIONS AND
SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE
PLANS.

Metric

UNLESS NOTED OTHERWISE
STATIONS ARE IN KILOMETERS
ELEVATIONS ARE IN METERS
DIMENSIONS ARE IN MILLIMETERS

APPROVED *[Signature]* DATE 7/3/08
Director of Program Development

APPROVED *[Signature]* DATE 7/3/08
Chief of Right of Way

EAST MONTPELIER
STPG 028-3(35)S

R.O.W. SHEET 1 OF 37 SHEETS

TYPICAL SECTIONS

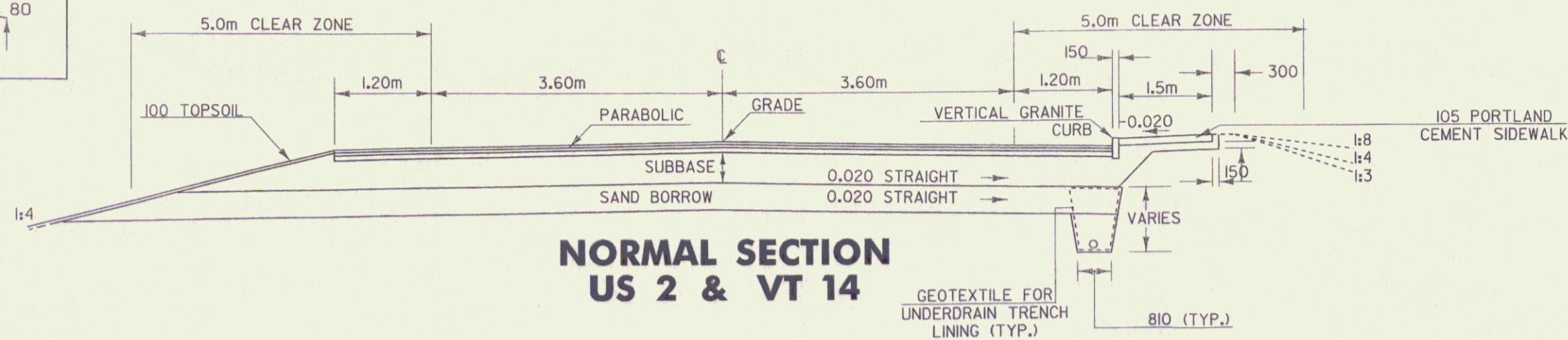
MATERIAL ITEM	PERMISSIBLE THICKNESS TOLERANCE
PAVEMENT (TOTAL DEPTH)	± 5
SUBBASE	± 30
SAND BORROW	± 30

- ```

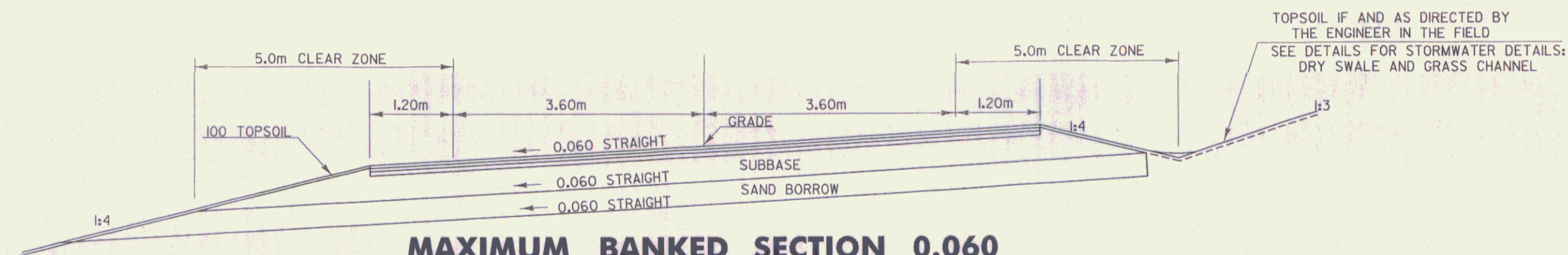
50 BITUMINOUS CONCRETE PAVEMENT TYPE III-S
75 BITUMINOUS CONCRETE PAVEMENT TYPE II-S
90 BITUMINOUS CONCRETE PAVEMENT TYPE I-S (2 LIFTS)

610 SUBBASE OF DENSE GRADED CRUSHED STONE
610 SAND BORROW

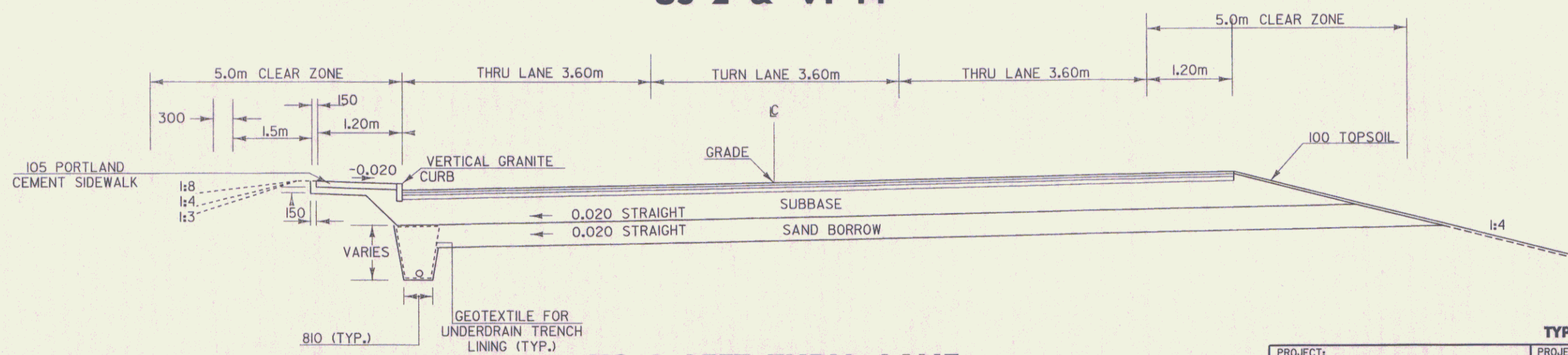
```



## NORMAL SECTION US 2 & VT 14



**MAXIMUM BANKED SECTION 0.060**  
**US 2 & VT 14**



**US 2 LEFT TURN LANE**

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS  
EXCEPT WHERE NOTED  
NOT TO SCALE

**TYPICAL SHEET #1**

PROJECT: EAST MONTPELIER

|               |                 |
|---------------|-----------------|
| PROJECT NO. : | STPG 028-3(35)S |
|---------------|-----------------|

DESIGN FILE NAME: /sqda/98b028/db028nul.dgn

dgn

IPARM FILE NAME: db028typ.l

PLOT DATE: 01-JUL-2008

SURVEYED BY: N/A

SURVEY DATE: N/A

SQUAD LEADER: Jls

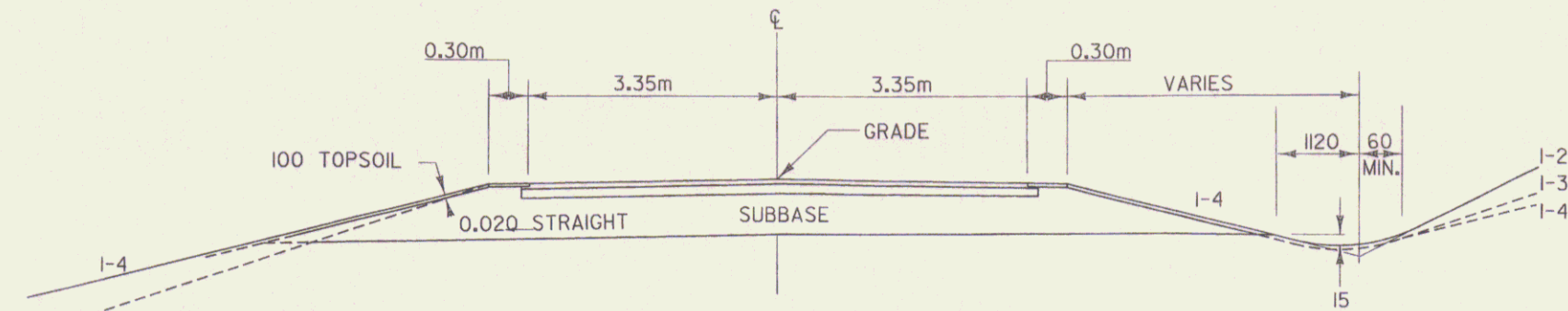
DRAWN BY: jfq



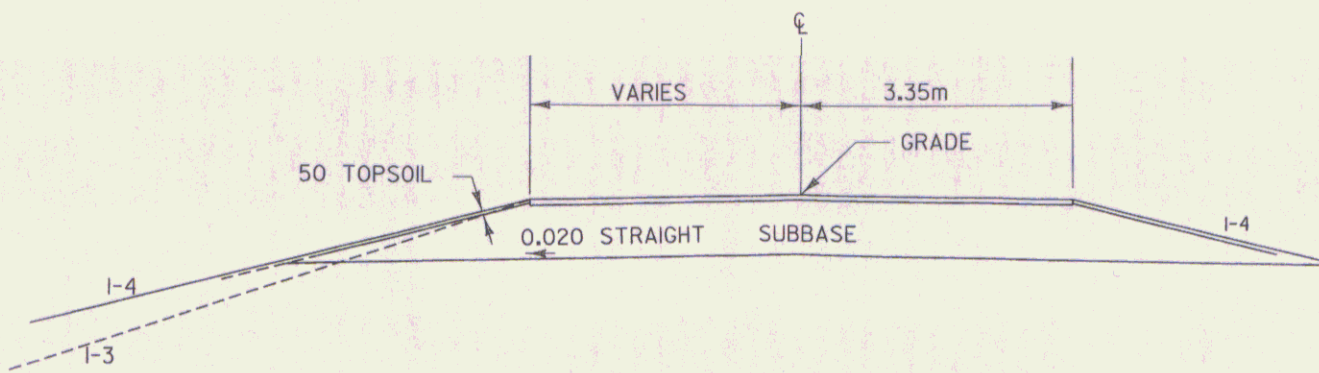
TYPICAL SECTIONS



- 50 BITUMINOUS CONCRETE PAVEMENT TYPE III-S
- 75 BITUMINOUS CONCRETE PAVEMENT TYPE II-S
- 90 BITUMINOUS CONCRETE PAVEMENT TYPE I-S (2 LIFTS)
- 610 SUBBASE OF DENSE GRADED CRUSHED STONE
- 610 SAND BORROW



NORMAL SECTION  
FOR QUAKER & KELTON ROADS



NORMAL SECTION  
FOR OLD 14 (PARKING AREA)

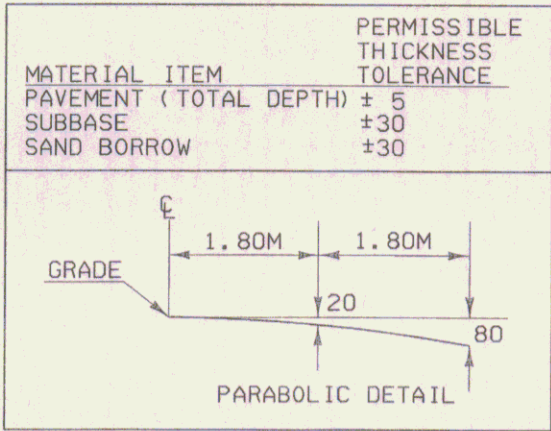
NOTE: ALL DIMENSIONS ARE IN MILLIMETERS  
EXCEPT WHERE NOTED

NOT TO SCALE

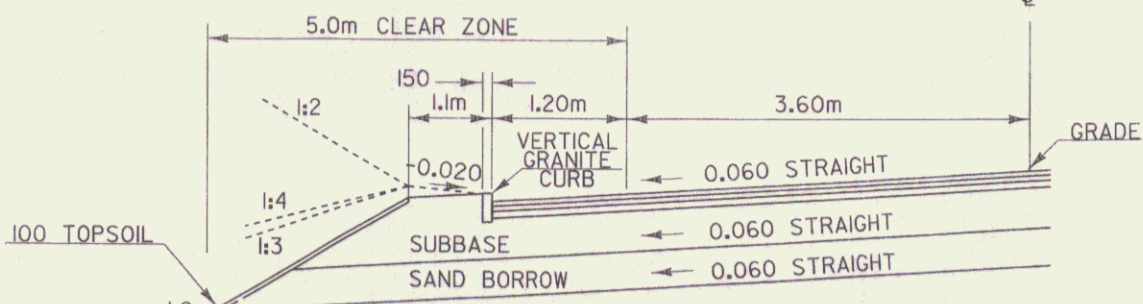
| TYPICAL SHEET #2                            |                              |
|---------------------------------------------|------------------------------|
| PROJECT: EAST MONTPELIER                    | PROJECT NO.: STPG 028-3(35)S |
| DESIGN FILE NAME: /sqda/98b028/db028nul.dgn | PLOT DATE: 01-JUL-2008       |
| IPARM FILE NAME: db028ty2                   | SURVEY DATE: N/A             |
| SURVEYED BY: N/A                            | DRAWN BY: JFG                |
| SQUAD LEADER: JLS                           | ROW SHEET 3 OF 37            |



# TYPICAL SECTIONS



- 50 BITUMINOUS CONCRETE PAVEMENT TYPE III-S
- 75 BITUMINOUS CONCRETE PAVEMENT TYPE II-S
- 90 BITUMINOUS CONCRETE PAVEMENT TYPE I-S (2 LIFTS)
- 610 SUBBASE OF DENSE GRADED CRUSHED STONE
- 610 SAND BORROW



## BANKED SECTION W/CURB US 2 & VT 14

# SEEDING FORMULA URBAN AREAS

| % MASS | kg/ha | NAME                | PUR % | GERM % |
|--------|-------|---------------------|-------|--------|
| 42.5   | 38.0  | CREeping RED FESCUE | 98    | 85     |
| 10.0   | 9.0   | PERENNIAL RYE GRASS | 95    | 90     |
| 42.5   | 38.0  | KENTUCKY BLUE GRASS | 85    | 85     |
| 5.0    | 5.0   | ANNUAL RYE GRASS    | 95    | 85     |
| 100.0  | 90.0  |                     |       |        |

### GENERAL NOTES

SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY MASS AND SHALL BE FREE OF ALL NOXIOUS SEED.

SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.

FERTILIZER: FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 560 kg/ha. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).

AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 4500 kg/ha, OR AS DIRECTED BY THE ENGINEER.

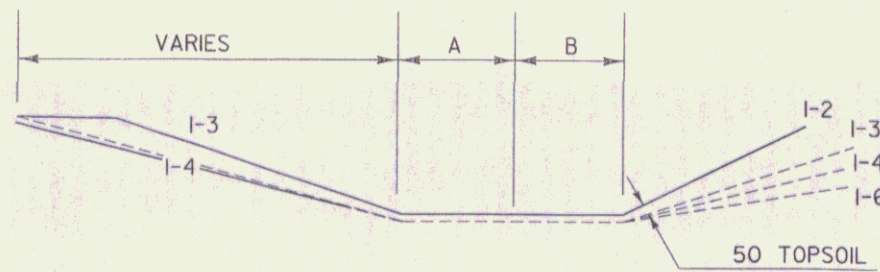
TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

MARKER POSTS: TO BE PLACED AS INDICATED OR AS DIRECTED BY THE ENGINEER.

SLOPE ROUNDING: ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET B-5M.

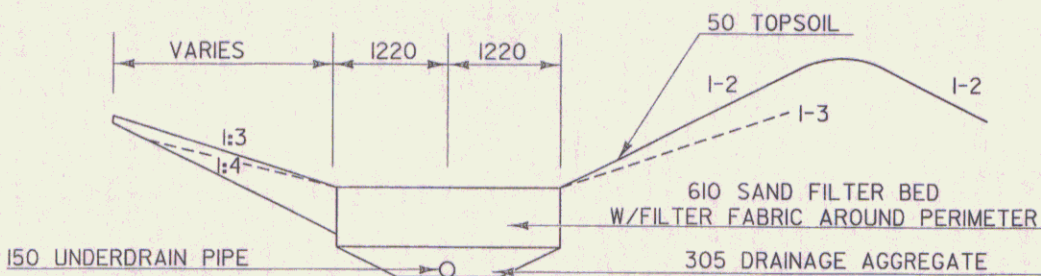
PAY LIMITS OF SAND BORROW: WHEN USED IN CONJUNCTION WITH UNDERDRAIN - SEE STANDARD SHEET D-2M.

TACK COAT: EMULSIFIED ASPHALT IS TO BE APPLIED AT THE RATE OF 0.07 L/m<sup>2</sup> BETWEEN SUCCESSIVE COURSES OF PAVEMENT AS DIRECTED BY THE ENGINEER.

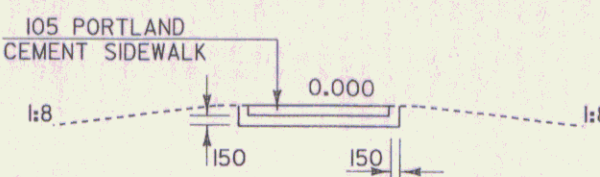


|              | A   | B    | STATION                    |
|--------------|-----|------|----------------------------|
| GRASSCHANNEL | 1-A | 1220 | 1220 14+150 RT - 14+205 RT |
| GRASSCHANNEL | 1-B | 915  | 915 14+045 LT - 14+091 LT  |
| GRASSCHANNEL | 1-C | 1220 | 1220 14+040 RT - 14+071 RT |

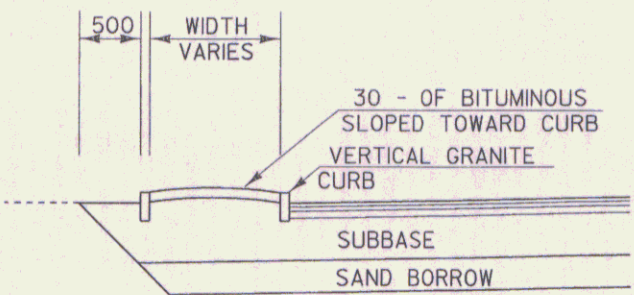
## GRASS CHANNEL VT 14



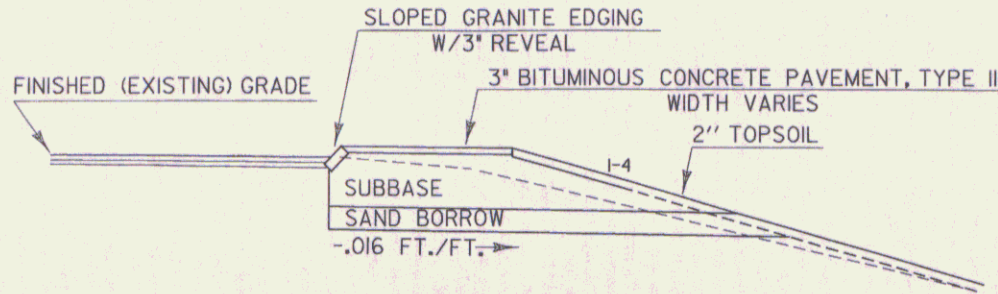
## DRY SWALE 1-D US 2 4+800 RT - 4+825 RT



## SIDEWALK IN LAWN AREA



## ISLAND - PAVED



## APRON W/MOUNTABLE CURB DETAIL

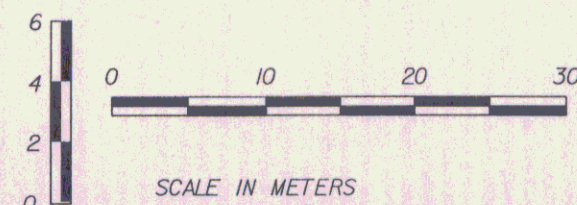
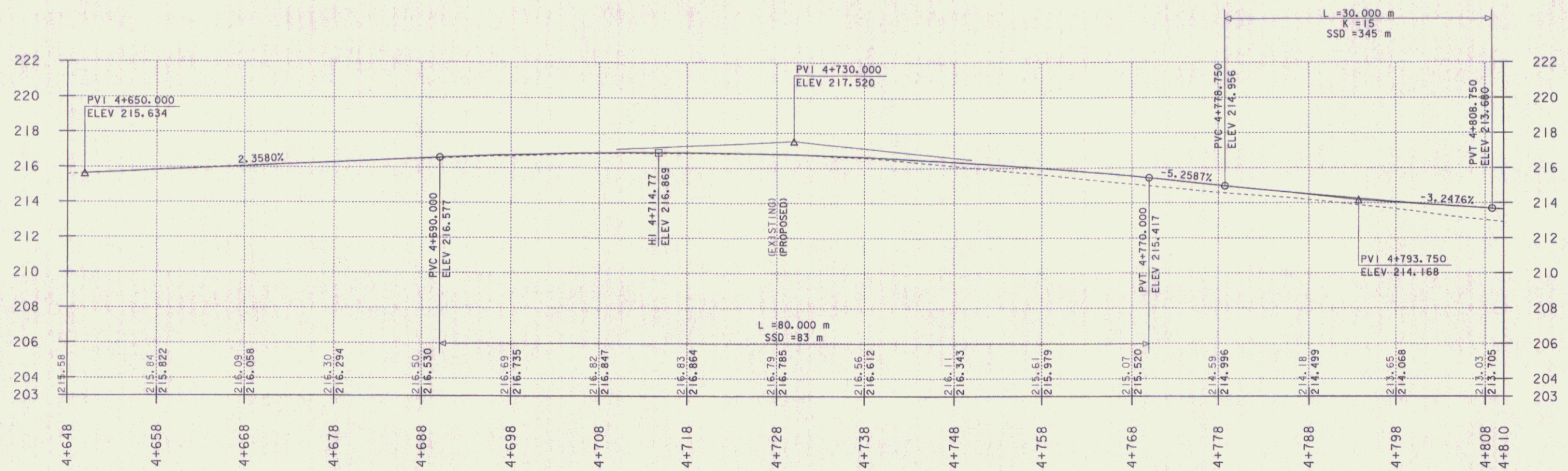
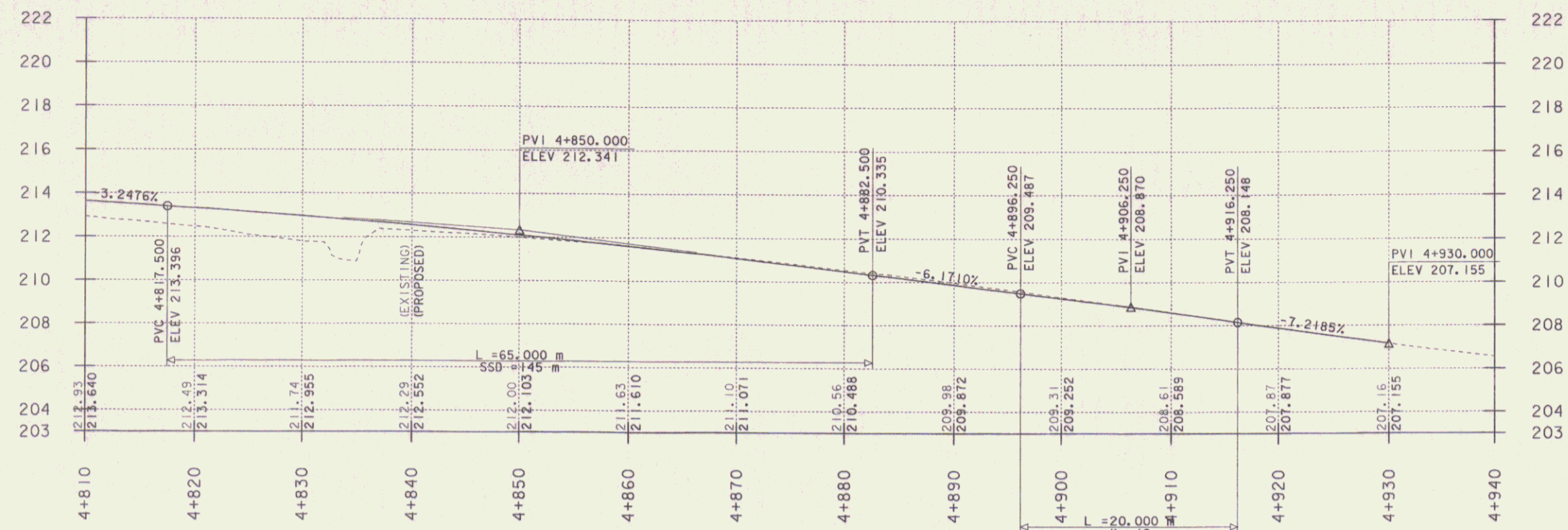
NOTE: ALL DIMENSIONS ARE IN MILLIMETERS EXCEPT WHERE NOTED

### TYPICAL SHEET #3

|                                             |                              |
|---------------------------------------------|------------------------------|
| PROJECT: EAST MONTPELIER                    | PROJECT NO.: STPG 028-3(35)S |
| DESIGN FILE NAME: /eqda/98b028/db028mul.dgn | PLOT DATE: 01-JUL-2008       |
| IPARM FILE NAME: db028typ.1                 | SURVEY DATE: N/A             |
| SURVEYED BY: N/A                            | DRAWN BY: JFG                |
| SQUAD LEADER: JLS                           | ROW SHEET: 4 OF 37           |

NOT TO SCALE



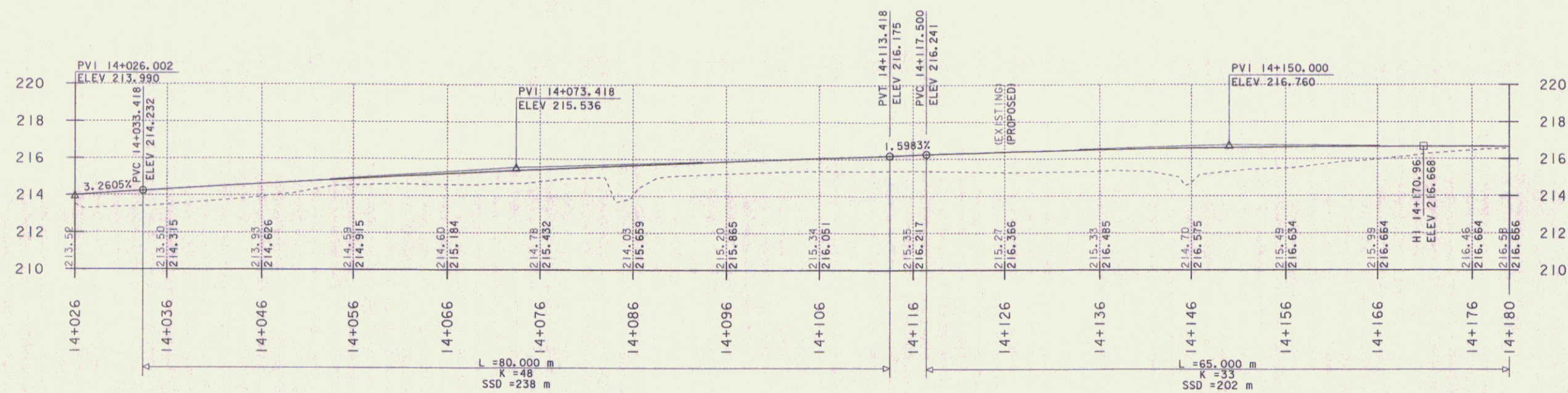
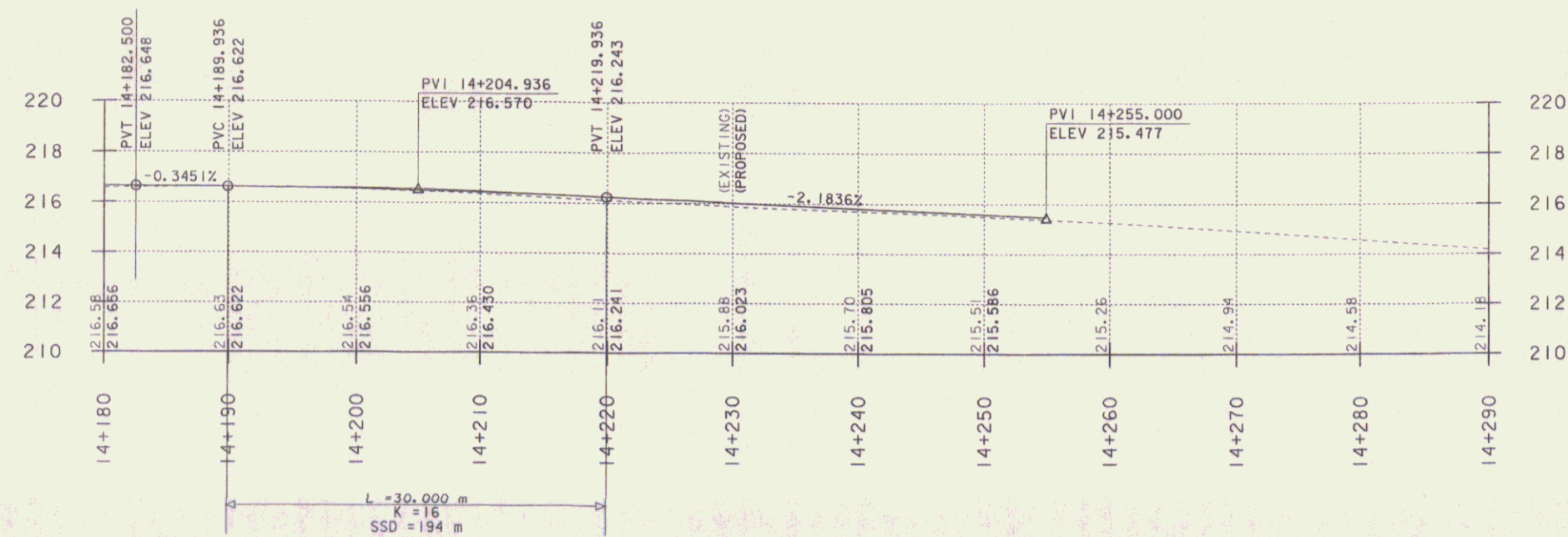


## US 2 PROFILE

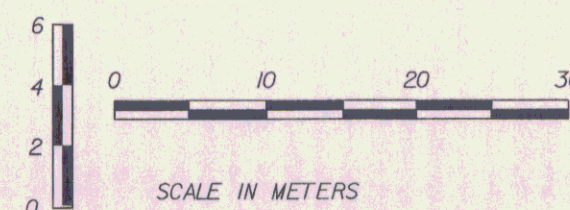
|                 |                           |
|-----------------|---------------------------|
| PROJECT NAME:   | EAST MONTPELIER           |
| PROJECT NUMBER: | STPG 028-3(35)S           |
| FILE NAME:      | /sqda/98b028/db028xsl.dgn |
| PROJECT LEADER: | JLS                       |
| DESIGNED BY:    |                           |
| PLOT DATE:      | 01-JUL-2008               |
| DRAWN BY:       | JFG                       |
| CHECKED BY:     |                           |
| ROW SHEET       | 5 OF 37                   |

db028p01





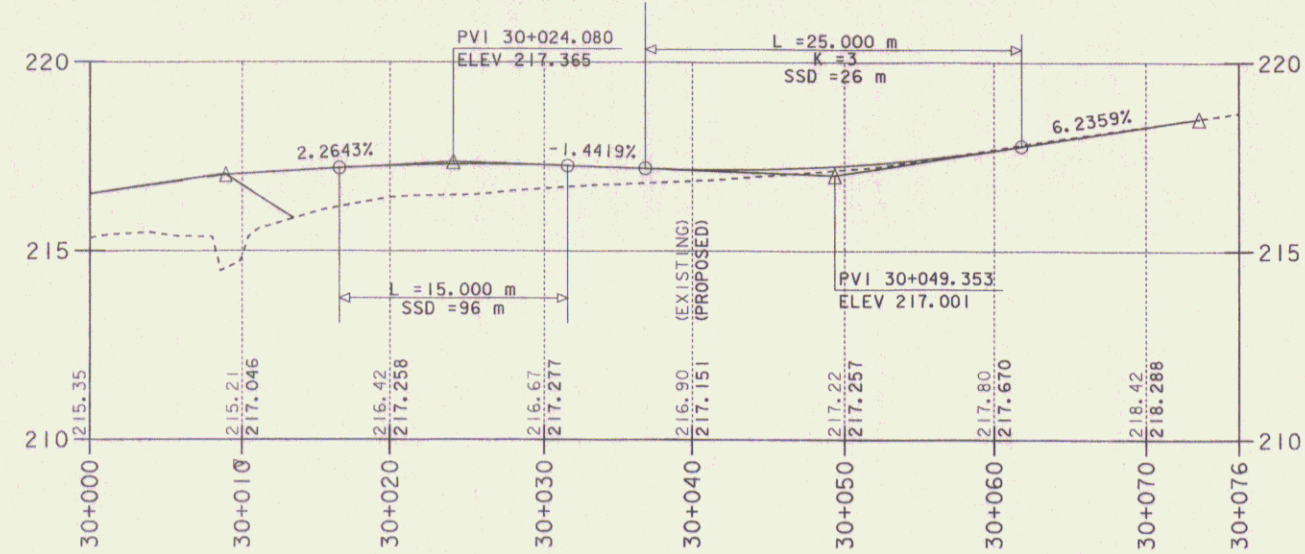
## VT 14 PROFILE



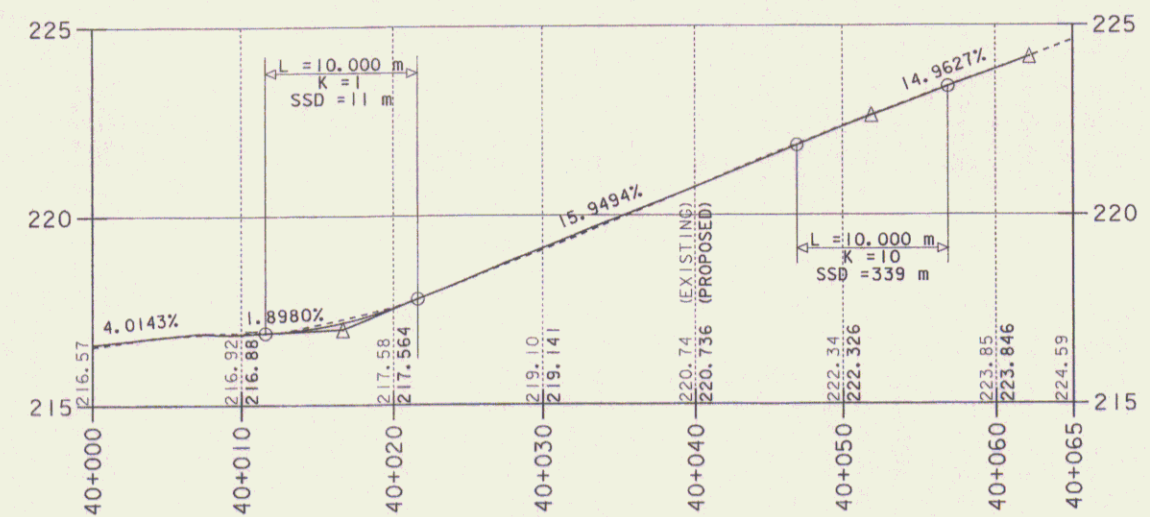
|                 |                           |
|-----------------|---------------------------|
| PROJECT NAME:   | EAST MONTPELIER           |
| PROJECT NUMBER: | STPG 028-3(35)S           |
| FILE NAME:      | /sqda/98b028/db028xsl.dgn |
| PROJECT LEADER: | JLS                       |
| DESIGNED BY:    |                           |
| PLOT DATE:      | 01-JUL-2008               |
| DRAWN BY:       | JFG                       |
| CHECKED BY:     |                           |
| ROW SHEET       | 6 OF 37                   |

db028p02

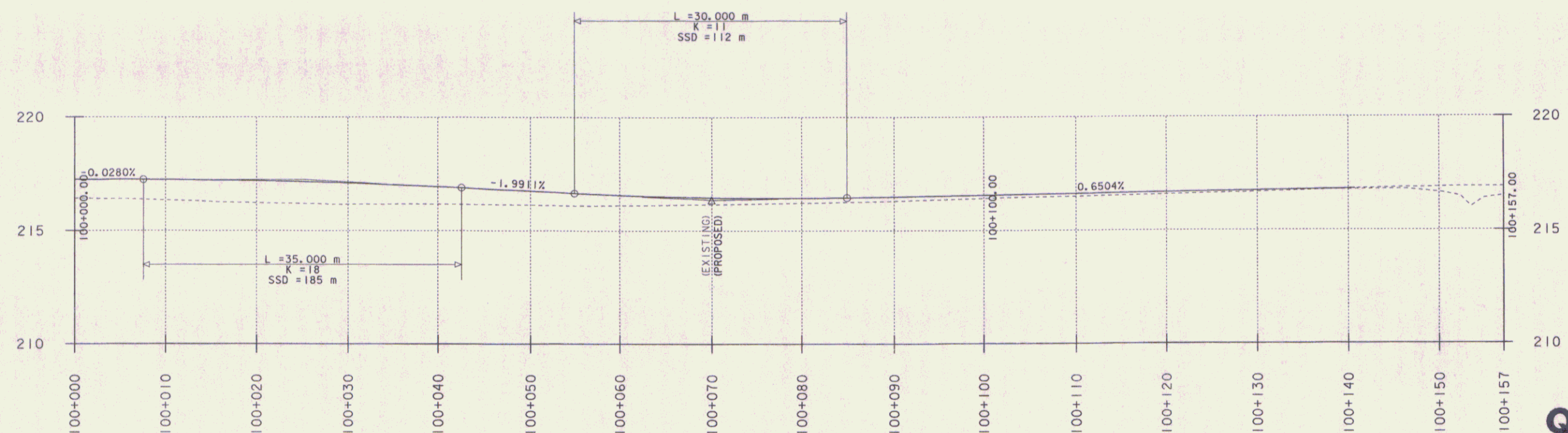




**KELTON ROAD**

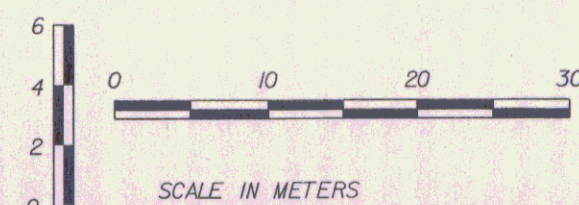


**QUAKER ROAD**



**PARKING**

**QUAKER  
KELTON  
PARKING  
PROFILES**



|                 |                           |
|-----------------|---------------------------|
| PROJECT NAME:   | EAST MONTEPELIER          |
| PROJECT NUMBER: | STPG 028-3(35)S           |
| FILE NAME:      | /sqda/98b028/db028xsl.dgn |
| PROJECT LEADER: | J schultz                 |
| DESIGNED BY:    |                           |
| PLOT DATE:      | 01-JUL-2008               |
| DRAWN BY:       | Jfg                       |
| CHECKED BY:     |                           |
| ROW SHEET       | 7 OF 37                   |

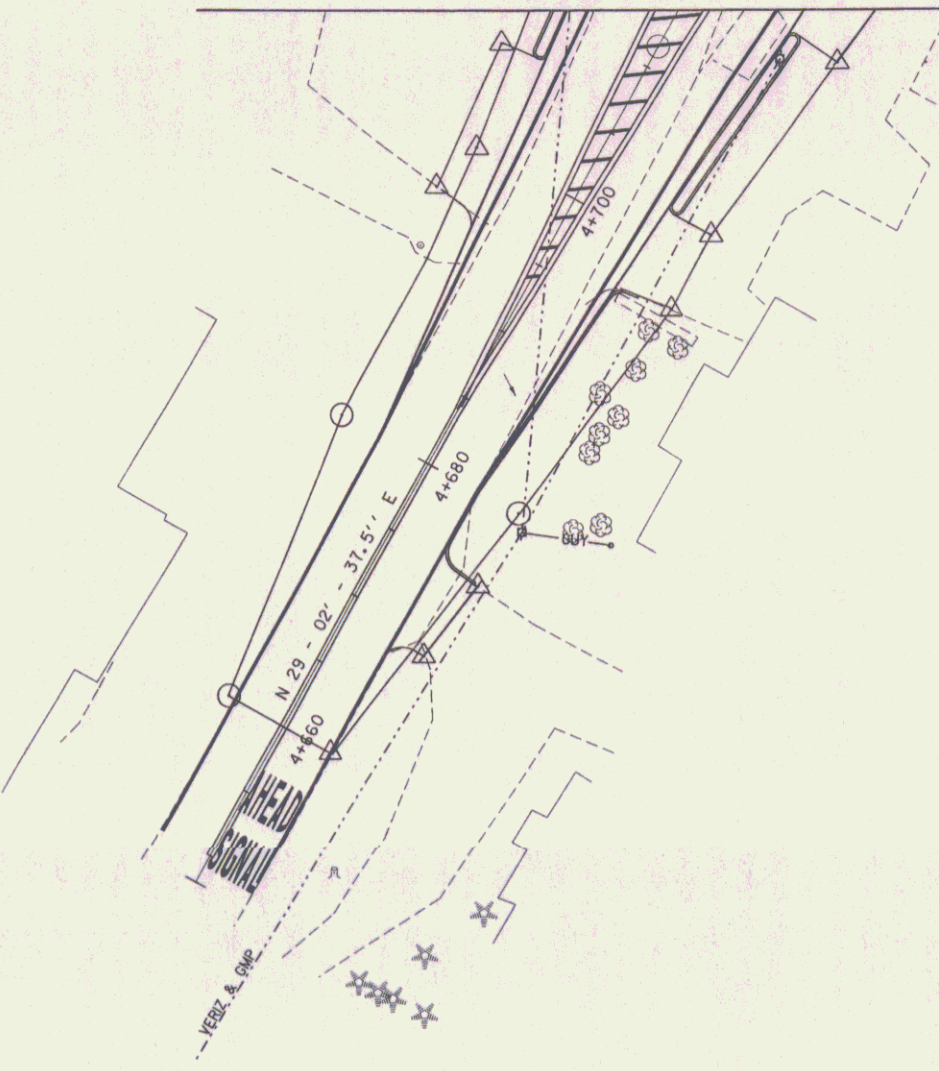
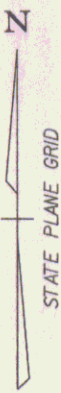
db028p03





MATCH LINE TO ROW SHEET 9 OF 37

MATCH LINE 4+714



**DURABLE 100 YELLOW LINE**

4+650 CL - 4+684 CL (DBL)  
4+684 - 4+734 (DBL- ISLAND)

**DURABLE 200 YELLOW LINE**

4+684 - 4+734 (ISLAND DIAGONAL)

**DURABLE 100 WHITE LINE**

4+650 RT - 4+930 RT  
4+650 LT - 4+723 LT  
4+723 LT - 40+018 LT (QUAKER RD - 13.5 R)

*approximate location of septic line to tank on Montague's*

*approximate location of septic line to tank on Montague's*

**DURABLE LETTER OR SYMBOL**

4+653 RT  
**AHEAD SIGNAL**

**TEMPORARY MARKINGS**

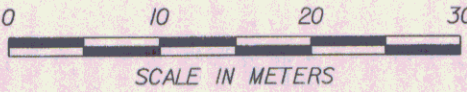
- Temporary 100 mm White Line
- Temporary 100 mm Yellow Line
- Temporary 200 mm Yellow Line (diagonals)
- Temporary Letter or Symbol

*monitoring system of State for Biron, across Lamb's on Hasland, LLC*

Note: To follow same stations as durable markings.

**TRAFFIC PLAN - MARKINGS - LAYOUT 1**

|            |              |
|------------|--------------|
| DATUM      |              |
| VERTICAL   | NAVD 88      |
| HORIZONTAL | NAD 83(1992) |



|                   |                                        |              |                 |
|-------------------|----------------------------------------|--------------|-----------------|
| PROJECT:          | EAST MONTEPELIER                       | PROJECT NO.: | STPG 028-3(35)S |
| DESIGN FILE NAME: | /sqda/98b028/db028...bdr.mut.top...dgn | PLOT DATE:   | 01-JUL-2008     |
| IPARM FILE NAME:  | db028                                  | SURVEY DATE: | 8/98            |
| SURVEYED BY:      |                                        | DRAWN BY:    | Jfg             |
| SQUAD LEADER:     | Jls                                    | ROW SHEET    | 8 OF 37         |



MATCH LINE TO ROW SHEET 11 OF 37

**DURABLE 100 WHITE LINE**

4+650 RT - 4+930 RT  
 4+650 LT - 4+723 LT  
 4+723 LT - 40+018 LT (QUAKER RD - 13.5 R)  
 40+018 RT - 4+751 LT (QUAKER RD - 13.5 R)  
 4+751 LT - 4+783 LT  
 4+783 LT - 14+042 LT (VT 14 - 16.5 R)  
 14+045 RT - 4+816 LT (VT 14 - 12.0 R)  
 4+816 LT - 4+930 LT  
 14+043 LT - 14+129 LT  
 14+045 RT - 14+255 RT  
 40+018 LT - 40+062 LT  
 40+018 RT - 40+062 RT  
 4+745 RT - 4+755 RT (DOTTED)  
 4+755 RT - 4+790 RT  
 14+043 LT - 14+072 LT  
 14+072 LT - 14+110 LT (DOTTED)  
 14+078 CL - 14+110 CL (DOTTED)  
 14+100 CL - 14+135 CL

NOTE: SEE  
 OLD CHURCH & WEC  
 PARKING AREA LAYOUT  
 SHEET FOR MARKINGS

**DURABLE 600 STOP BAR**

4+790 LT - RT  
 4+816 LT  
 14+042 LT  
 40+007 LT

**TEMPORARY MARKINGS**

Temporary 100 mm White Line  
 Temporary 100 mm Yellow Line  
 Temporary 200 mm Yellow Line (diagonals)  
 Temporary Letter or Symbol

Note: To follow same stations as durable markings.

**DURABLE 100 YELLOW LINE**

4+684 - 4+734 (DBL - ISLAND)  
 4+745 LT - 4+790 LT (DBL)  
 4+812 - 4+920 (DBL - ISLAND)  
 14+042 CL - 14+135 LT (DBL)  
 40+009 CL - 40+062 CL (DBL)

**DURABLE 200 YELLOW LINE**

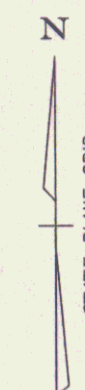
4+684 - 4+734 (ISLAND DIAGONAL)  
 4+812 - 4+920 (ISLAND DIAGONAL)

**DURABLE LETTER OR SYMBOL**

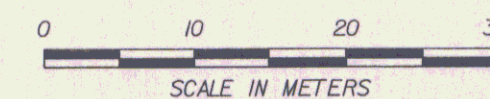
4+785 CL ONLY  
 4+756 CL ONLY  
 14+045 LT ONLY  
 14+061 LT ONLY  
 40+013 LT STOP

**DURABLE CROSSWALK MARKING**

4+813 LT - 4+812 RT  
 14+038 LT - 14+038 RT



MATCH LINE TO ROW SHEET 10 OF 37

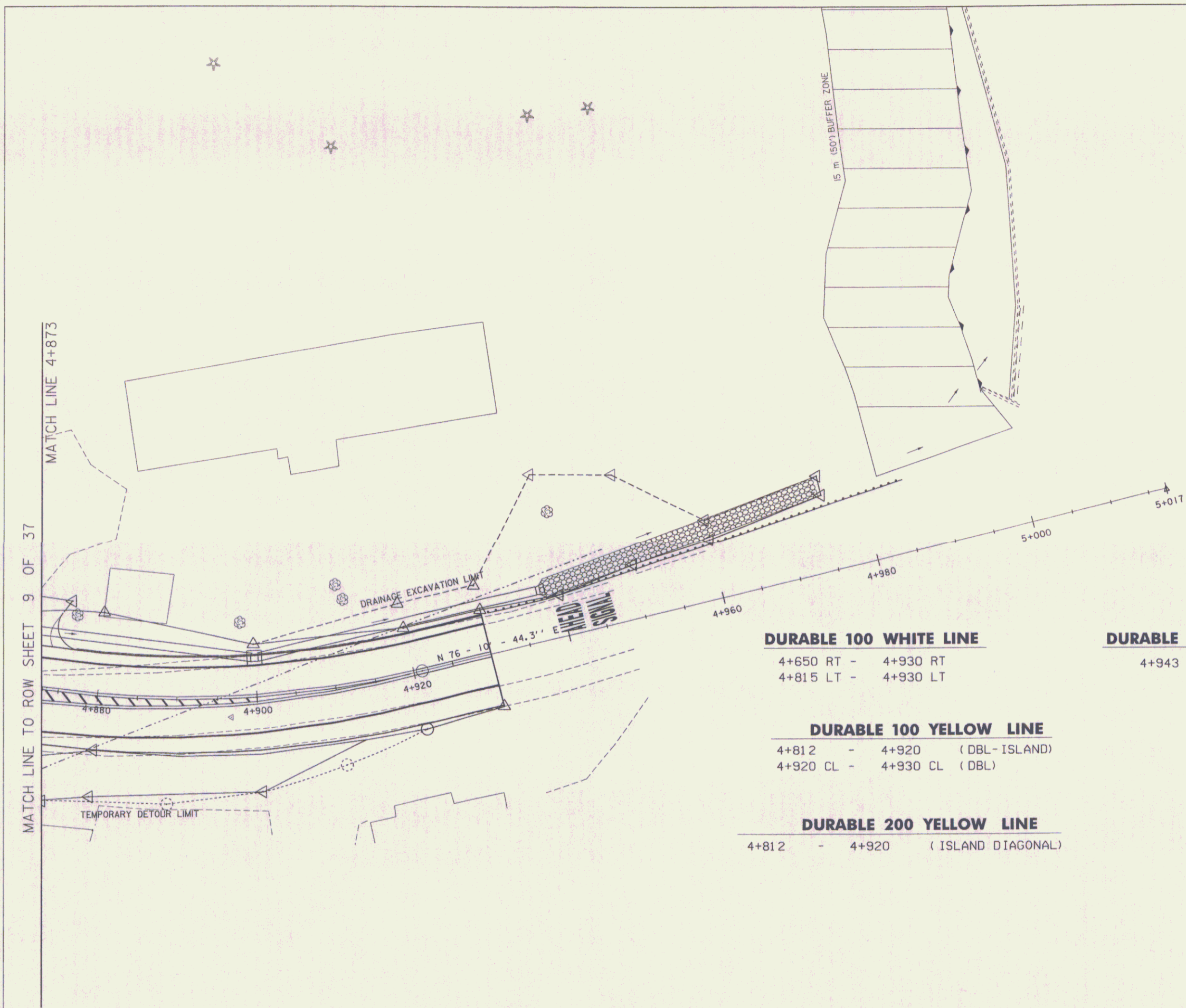
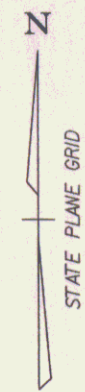


**TRAFFIC PLAN - MARKINGS - LAYOUT 2**

|                                                        |                                        |
|--------------------------------------------------------|----------------------------------------|
| PROJECT:<br><b>EAST MONTPELIER</b>                     | PROJECT NO.:<br><b>STPG 028-3(35)S</b> |
| DESIGN FILE NAME: /sqda/98b028/db028...bdr_nul_top.dgn | PLOT DATE: 01-JUL-2008                 |
| IPARM FILE NAME: db028                                 | SURVEY DATE: 8/98                      |
| SURVEYED BY:                                           | DRAWN BY: Ifa                          |
| SQUAD LEADER: jls                                      | ROW SHEET <b>9</b> OF 37               |

DATUM  
 VERTICAL: NAVD 88  
 HORIZONTAL: NAD 83(1992)





**DURABLE 100 WHITE LINE**

4+650 RT - 4+930 RT  
4+815 LT - 4+930 LT

**DURABLE LETTER OR SYMBOL**

4+943 LT **AHEAD SIGNAL**

**DURABLE 100 YELLOW LINE**

4+812 - 4+920 (DBL - ISLAND)  
4+920 CL - 4+930 CL (DBL)

**DURABLE 200 YELLOW LINE**

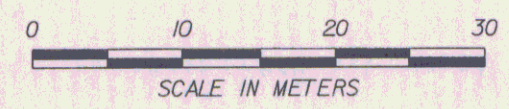
4+812 - 4+920 (ISLAND DIAGONAL)

**TEMPORARY MARKINGS**

Temporary 100 mm White Line  
Temporary 100 mm Yellow Line  
Temporary 200 mm Yellow Line (diagonals)  
Temporary Letter or Symbol

Note: To follow same stations as durable markings.

|              |              |
|--------------|--------------|
| <b>DATUM</b> |              |
| VERTICAL     | NAVD 88      |
| HORIZONTAL   | NAD 83(1992) |



**TRAFFIC PLAN - MARKINGS - LAYOUT 3**

|                                                          |                                        |
|----------------------------------------------------------|----------------------------------------|
| PROJECT:<br><b>EAST MONTPELIER</b>                       | PROJECT NO.:<br><b>STPG 028-3(35)S</b> |
| DESIGN FILE NAME: /sqda/98b028/db028...bdr,nul,top...dgn | PLOT DATE: 01-JUL-2008                 |
| IPARM FILE NAME: db028i03                                | SURVEY DATE: 8/98                      |
| SURVEYED BY:                                             | DRAWN BY: Jfg                          |
| SQUAD LEADER: Jls                                        | ROW SHEET <b>10</b> OF 37              |





# DURABLE 600 STOP BAR

30+010 LT  
100+009 LT

## DURABLE LETTER OR SYMBOL

14+132 LT ONLY  
14+112 LT ONLY  
30+012 LT STOP  
100+010 LT STOP

## DURABLE 100 WHITE LINE

14+042 LT - 14+129 LT  
14+045 RT - 14+255 RT  
14+072 LT - 14+110 LT (DOTTED)  
14+072 CL - 14+100 CL (DOTTED)  
14+110 CL - 14+135 CL  
14+129 LT - 30+015 LT (KELTON - 9.0 R)  
30+020 RT - 14+151 LT (KELTON - 10.0 R)  
14+151 LT - 14+255 LT  
30+015 LT - 100+008 LT (OLD 14 - 6.5 R)  
100+008 RT - 30+025 LT (OLD 14 - 605 R)  
30+025 LT - 30+037 LT  
30+020 RT - 30+037 RT  
100+008 LT - 100+028 LT  
100+008 RT - 100+028 RT

## DURABLE 100 YELLOW LINE

14+042 CL - 14+135 CL (DBL)  
14+148 CL - 14+227 CL (DBL - ISLAND)  
14+227 CL - 14+255 LT (DBL)  
30+009 CL - 30+037 CL (DBL)  
100+008 CL - 100+029 CL (DBL)

## DURABLE 200 YELLOW LINE

14+149 - 14+221 (ISLAND DIAGONAL)

## TEMPORARY MARKINGS

Temporary 100 mm White Line  
Temporary 100 mm Yellow Line  
Temporary 200 mm Yellow Line (diagonals)  
Temporary Letter or Symbol

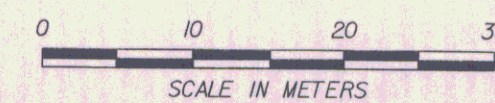
Note: To follow same stations as durable markings.

NOTE: SEE  
OLD CHURCH & WEC  
PARKING AREA LAYOUT  
SHEET FOR MARKINGS

MATCH LINE 14+094

MATCH LINE TO ROW SHEET 9 OF 37

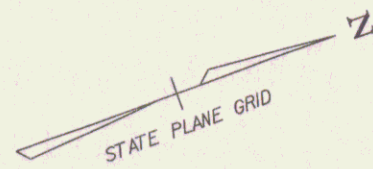
|            |              |
|------------|--------------|
| DATUM      |              |
| VERTICAL   | NAVD 88      |
| HORIZONTAL | NAD 83(1992) |



## TRAFFIC PLAN - MARKINGS - LAYOUT 4

|                                                          |                                 |
|----------------------------------------------------------|---------------------------------|
| PROJECT:<br>EAST MONTPELIER                              | PROJECT NO.:<br>STPG 028-3(35)S |
| DESIGN FILE NAME: /sqda/98b028/db028...bdr,nul,top...dgn | PLOT DATE: 01-JUL-2008          |
| IPARM FILE NAME: db028i04                                | SURVEY DATE: 8/98               |
| SURVEYED BY:                                             | DRAWN BY: Jfg                   |
| SQUAD LEADER: Jjs                                        | ROW SHEET 11 OF 37              |





**DURABLE 100 WHITE LINE**

100+031 LT - 100+075 LT  
 100+090 LT - 100+103 LT  
 100+089 RT - 100+103 RT

**DURABLE LETTER OR SYMBOL**

100+097 LT   
 100+102 LT

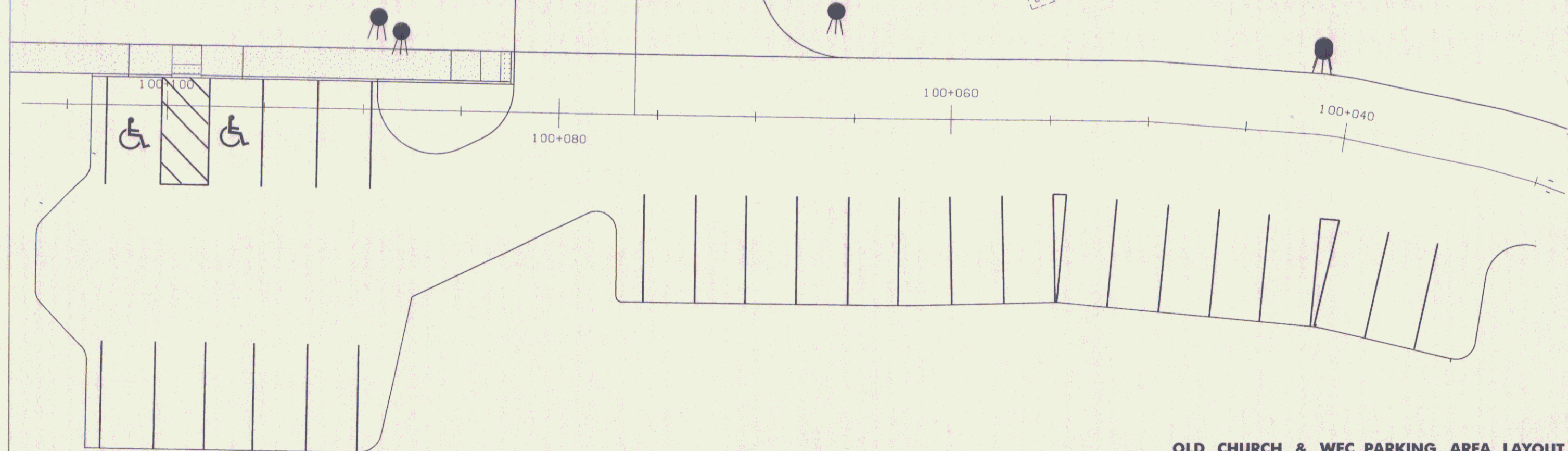
2.6 M  
 (8.5 FT)

5.5 M (18 FT)

PARKING STALL DIMENSIONS

WASHINGTON ELECT. CO-OP

OLD BRICK CHURCH



|            |              |
|------------|--------------|
| DATUM      |              |
| VERTICAL   | NAVD 88      |
| HORIZONTAL | NAD 83(1992) |

10  
 SCALE IN METERS

**OLD CHURCH & WEC PARKING AREA LAYOUT**

|                   |                                        |              |                |
|-------------------|----------------------------------------|--------------|----------------|
| PROJECT:          | EAST MONTPELIER                        | PROJECT NO.: | STPG 028-3(35) |
| DESIGN FILE NAME: | /sqda/98b028/db028...bdr_nul_top...dgn | PLOT DATE:   | 01-JUL-2008    |
| IPARM FILE NAME:  | db028trparkbdr                         | SURVEY DATE: | 8/98           |
| SURVEYED BY:      |                                        | DRAWN BY:    | Jfg            |
| SQUAD LEADER:     | Jls                                    | ROW SHEET    | 12 OF 37       |



EROSION CONTROL NARRATIVE

1.1 PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE CONSTRUCTION OF A TRAFFIC SIGNAL SYSTEM LOCATED AT THE INTERSECTIONS OF US 2 AND VT 14 IN THE TOWN OF EAST MONTPELIER. VT 14 WILL BE REALIGNED TO FORM A TEE INTERSECTION WITH US 2.

TOTAL DISTURBED AREA IS 16125 SQUARE METERS OR 3.98 ACRES. NOTE: AREA OF DISTURBANCE SHALL INCLUDE LIMITS OF EARTH DISTURBANCE WITHIN THE PROJECT AREA, INCLUDING ANY WASTE, STAGING AND BORROW AREAS WITHIN OR DIRECTLY ADJACENT TO THE PROJECT LIMITS.

IT IS ANTICIPATED THAT THIS PROJECT WILL LAST ONE CONSTRUCTION SEASON.

1.2 SITE INVENTORY

1.2.1 OFF SITE DRAINAGE CHARACTERISTICS (UP AND DOWN-GRADIENT)

INSIDE OF THE STATE RIGHT-OF-WAY AND THE PROPERTIES SURROUNDING THE PROJECT CONSIST OF ESTABLISHED VEGETATION OF GRASSES AND SOME WOODED AREAS. AGRICULTURAL FIELDS EXIST UPSLOPE OF THE PROJECT LIMITS.

1.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER, AND PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES

AREA DRAINAGE IS CONVEYED VIA GRASS SURFACES. DRAINAGE SWALES AND CULVERTS TO EITHER SODOM BROOK OR THE WINOOSKI RIVER. THE FOLLOWING DESCRIPTIONS ARE FOR THE EXISTING SITE PLAN:

SURFACE DRAINAGE FROM QUAKER ROAD IS CONVEYED VIA A DITCH TO CULVERT #1 UNDER US 2 AT STATION 4+690. THE WATER IS THEN DISPERSED OVER OPEN FIELDS FOR A DISTANCE OF 215 METERS (700 FEET) TO THE WINOOSKI RIVER.

THE LARGEST SYSTEM ON SITE CONSISTS OF CULVERTS #2, #3, #4 AND SWALE #1. WATER ENTERS THIS SYSTEM FROM A SPRING AND CULVERT LOCATED NORTHEAST OF WASHINGTON ELECTRIC CO-OP. DRAINAGE IS CONVEYED UNDER ROUTE 14 AND EMPTIES INTO SWALE. THIS SWALE IS OPEN FOR 105 METERS (345 FEET) AND FLOWS INTO CULVERT #4. THIS THEN ENTERS A CLOSED SYSTEM FOR 135 METERS (445 FEET) EMPTYING INTO THE WINOOSKI RIVER.

DRAINAGE FLOWS FROM THE KELTON ROAD AREA VIA CULVERTS #5 AND #5A UNDER ROUTE 14 INTO A SHORT DITCH THEN INTO CULVERT #6 AND TRAVELS FOR 100 METERS (345 FEET). THIS CULVERT EMPTIES ONTO A GRASSY AREA AND FLOWS FOR 25 METERS (80 FEET) TO SODOM BROOK.

1.2.3 TOPOGRAPHY, EXISTING ROADS, BUILDINGS, UTILITIES

THE GENERAL TOPOGRAPHY OF THE AREA DISPLAYS HILLSIDES TO THE NORTHWESTERN SIDES OF US 2 AND VT 14. ON THE SOUTHEASTERN SIDES OF US 2 AND VT 14 THE TERRAIN HAS A MORE GRADUAL SLOPE TOWARDS SODOM BROOK AND WINOOSKI RIVER.

ALL ROAD SURFACES IN THE PROJECT AREA ARE BITUMINOUS CONCRETE PAVEMENT, EXCEPT THE NORTHERN SECTION OF KELTON ROAD. WHICH IS GRAVEL.

THIS PROJECT IS LOCATED IN THE VILLAGE OF EAST MONTPELIER WHICH IS A MORE URBAN TYPE AREA. THERE ARE MANY SMALL BUSINESS BUILDINGS AND RESIDENTIAL HOMES ADJACENT TO THE ROADWAY. ALL ELECTRICAL UTILITIES ARE LOCATED ABOVE GROUND WITH A MAJOR DISTRIBUTION LINE (GREEN MOUNTAIN POWER) CROSSING THE PROJECT.

1.2.4 VEGETATION

VEGETATION ALONG ALL OF THE ROADWAYS CONSISTS OF RESIDENTIAL LAWNS, WITH A DISPERSION OF SHRUBS, HARDWOOD AND SOFT WOOD TREES. VEGETATION ALONG THE BANK OF SODOM BROOK CONSISTS OF FESCUE GRASSES, BIRDSFOOT TREEFOIL, ANNUAL RYEGRASS AND VARIOUS WEED SPECIES. A PORTION OF THIS BANK THAT EXTENDS ALONG THE NORTHERLY SIDE OF US 2 WILL BE DISTURBED DURING CONSTRUCTION, THE VAOT URBAN SEED MIXTURE, A VEGETATION ENHANCEMENT JUTE-MESH AND 6 INCHES OF TOPSOIL WILL BE USED ON THIS SLOPE FOR EROSION CONTROL AND FOR FUTURE LANDSCAPING PLANS.

1.2.5 SOILS

ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTY OF WASHINGTON, VERMONT. SOILS ON THE PROJECT SITE ARE AS FOLLOWS AND AS SHOWN ON THE PLANS:

CABOT SILT LOAM, 0 TO 3 PERCENT SLOPES, K= 0.32, -11,880 SQUARE METERS (2.9 ACRES)

SALMON VERY FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES, K= 0.49, -2,840 SQUARE METERS (0.7 ACRES)

DUMMERSTON FINE SANDY LOAM, 15 TO 25 PERCENT SLOPES, K= 0.32, -391 SQUARE METERS (0.1 ACRES)

ADAMS LOAMY FINE SAND, 3 TO 8 PERCENT SLOPES, K= 0.17, - 1,030 SQUARE METERS (0.3 ACRES)

NOTE: K-VALUES GENERALLY INDICATE THEFOLLOWING: 0.0-0.23 = LOW EROSION POTENTIAL; 0.24-0.36 = MODERATE EROSION POTENTIAL; 0.37 AND HIGHER = HIGH EROSION POTENTIAL.

1.2.6 SENSITIVE RESOURCE AREAS

CRITICAL HABITATS: NO  
HISTORICAL OR ARCHEOLOGICAL AREAS: 0.173 ACRES OF HISTORICAL LAND ACQUISITION  
PRIME AGRICULTURAL LAND: NO (STATEWIDE)  
THREATENED AND ENDANGERED SPECIES: NO  
WATER RESOURCE: SODOM BROOK OUTSIDE PROJECT LIMITS -55 METERS (180 FEET)  
WETLANDS: CLASS II WETLAND, WITHIN BUFFER LIMITS NEAR SODOM BROOK

1.3 RISK EVALUATION

THIS PROJECT FALLS UNDER THE JURISDICTION OF THE CONSTRUCTION GENERAL PERMIT 3-9020 FOR LOW RISK TO WATER QUALITY. SHOULD CHANGES PRIOR TO OR DURING CONSTRUCTION RESULT IN MORE IMPACTS INCREASING THE RISK TO WATER QUALITY OR SHOULD THE PROJECT BECOME PART OF A LARGER PLAN OF DEVELOPMENT, THEN THE SELECTED CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL PERMITTING WITH VANR VIA FILING OF AN AMENDMENT TO THE AUTHORIZED CGP. THE LOW RISK HANDBOOK SHOULD BE ON SITE AND COMPLIED WITH AT ALL TIMES. THE PROJECT WAS DETERMINED TO BE LOW RISK BY SEVERAL FACTORS, PRIMARILY DUE TO THE 80' VEGETATED BUFFER BETWEEN THE STORMWATER DISCHARGE POINT AND SODOM POND BROOK. THE PROJECT ALSO HAS LESS THAN AN ACRE OF SOILS WITH HIGH EROSION POTENTIAL (K>0.36). PART OF THE MITIGATION EFFORT IS TO LIMIT THE PROJECT TO TWO ACRES OR LESS OF EARTH DISTURBANCE AT ANY ONE TIME.

1.4 EROSION PREVENTION AND SEDIMENT CONTROL

THE EROSION CONTROL PLANS ARE MEANT AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. THE WORK OUTLINED IN THIS NARRATIVE CONSISTS OF APPLYING MEASURES THROUGHOUT THE LIFE OF THE PROJECT MINIMIZING SEDIMENT TRANSPORT TO THE RECEIVING WATERS. THE MEASURES INCLUDE STABILIZATION AND STRUCTURAL PRACTICES. STORM WATER CONTROLS AND OTHER POLLUTION PREVENTION CONTROLS.

PREVENTING INITIAL SOIL EROSION IS MUCH MORE EFFECTIVE THAN TREATING ERODED SEDIMENT. MAINTAINING VEGETATED BUFFERS ALONG STREAM BANKS, WETLANDS OR OTHER SENSITIVE AREAS IS A CRUCIAL EROSION AND SEDIMENT CONTROL MEASURE THAT SHOULD BE ESTABLISHED WHEREVER POSSIBLE.

ALL MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED AT AN APPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

(REFER TO THE LOW RISK SITE HANDBOOK AND APPROPRIATE DETAIL SHEETS FOR EACH PRACTICE REQUIRED ON THE PROJECT TO INCLUDE BUT NOT LIMITED TO THE FOLLOWING.)

1.4.1 MARK SITE BOUNDARIES

PROJECT DEMARICATION FENCING, DENOTED -PDF- ON THE PLANS IS USED TO DELINEATE THE LIMITS THE CONTRACTOR CAN ACCESS WITH CONSTRUCTION EQUIPMENT. THIS MEASURE LIMITS THE AREA THAT CAN BE DISTURBED AND EXPOSED TO EROSION.

1.4.2 LIMIT DISTURBANCE AREA

EMPLOY TEMPORARY STABILIZATION PRACTICES IN INCREMENTAL STAGES (PHASING) AS CONSTRUCTION PROCEEDS. ADDITIONAL MEASURES MAY BE NEEDED DUE TO THE PHASING OF THE PROJECT AND AS DIRECTED BY THE ENGINEER.

1.4.3 STABILIZE CONSTRUCTION EXIT

STABILIZED CONSTRUCTION ENTRANCE SHALL BE UTILIZED AS NECESSARY.

1.4.4 INSTALL SILT FENCE

SILT FENCE SHALL BE INSTALLED PRIOR TO ANY UP SLOPE WORK AS SHOWN ON THE PLANS OR AS NECESSARY.

1.4.5 DIVERT UPLAND RUNOFF

SWALE (STORM WATER FROM STREET COLLECTIONS DRAINAGE SYSTEM) AS NECESSARY

1.4.6 SLOW DOWN CHANNELIZED RUNOFF

CHECK DAMS SHALL BE UTILIZED AS NECESSARY.

1.4.7 CONSTRUCT PERMANENT CONTROLS

SEED AND MULCH AS NECESSARY  
DRAINAGE INLETS AND PIPING  
STORMWATER ENERGY DISAPATOR WITH TYPE II STONE FILL (STA 4+968 LT - 4+976 LT)

1.4.8 STABILIZE EXPOSED SOILS

SEED AND MULCH AS NECESSARY  
EROSION MATTING ON SLOPES STEEPER THAN 1:3  
STONE FILL (TYPE II) FOR SLOPE LINING & CHANNEL PROTECTION

TRACKING OF ALL EXPOSED SLOPES, COMBINED WITH TEMPORARY MULCHING, WILL BE UTILIZED ON A REGULAR BASIS. SEEDING, MULCHING AND BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1:3.

1.4.9 WINTER STABILIZATION

VARIOUS MEASURES SPECIFIC TO WINTER (SEE LOW RISK HANDBOOK)

1.4.10 STABILIZE SOIL AT FINAL GRADE

SEED AND MULCH  
EROSION MATTING

SEEDING, MULCHING AND BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1:3.

1.4.11 DE-WATERING ACTIVITIES

AS NECESSARY

1.4.12 INSPECT YOUR SITE

INSPECT SITE BASED ON PERMIT AUTHORIZATION OR SPECIAL PROVISION REQUIREMENTS.

1.5 PROPOSED CONSTRUCTION PHASING SEQUENCE

- INSTALL GEOMATTING AND BEGIN CONSTRUCTION OF REALIGNED ROAD
- INSTALL STONE CHECK DAM PROTECTION
- EXCAVATE AND REPLACE/INSTALL NEW CROSS CULVERTS
- COMPLETE REALIGNED ROAD
- SEED SIDE SLOPES WITH TEMPORARY SEED MIX
- PLACE EROSION MATTING ON SLOPES GREATER THAN 1:3. HAY MULCH ALL OTHER DISTURBED AREAS
- COMPLETE EXCAVATION
- PLACE NEW BASE COURSE TO LINE AND GRADE
- REFORM/INSTALL DITCHES
- SHAPE AND GRADE SIDE SLOPES AS REQUIRED
- INSTALL EROSION MATTING WHERE/AS REQUIRED
- SEED AND MULCH SIDE SLOPES
- PLACE GEOFABRIC AND STONE AS SHOWN
- INSTALL TEMPORARY PAVEMENT MARKINGS
- REMOVE INLET PROTECTION WORKS
- GRADE, SEED AND MULCH ALL REMAINING DISTURBED AREAS
- INSTALL PAVEMENT WEAR COURSE
- REMOVE INITIAL EROSION CONTROL MEASURES

- DENOTES WORK THAT CAN BE PERFORMED CONCURRENTLY

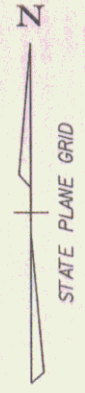
EPSC NARRATIVE

PROJECT NAME: EAST MONTPELIER  
PROJECT NUMBER: STPG 028-3(35)S

FILE NAME: db028eros.dgn  
PROJECT LEADER: JLS  
DESIGNED BY: JFG

PLOT DATE: 01-JUL-2008  
DRAWN BY: WF  
CHECKED BY:  
ROW SHEET 15 OF 37





FIELD

### EROSION AND SEDIMENT CONTROL INDEX (LAYOUT 1)

| NO. | LOCATION | DESCRIPTION           |
|-----|----------|-----------------------|
| 3   | 4+694 LT | DROP INLET PROTECTION |

### EROSION AND SEDIMENT CONTROL INDEX (LAYOUT 2)

| NO. | LOCATION  | DESCRIPTION                |
|-----|-----------|----------------------------|
| 3   | 4+694 LT  | DROP INLET PROTECTION      |
| 5   | 4+749 LT  | DITCH AND SLOPE PROTECTION |
| 5   | 4+785 LT  | DITCH AND SLOPE PROTECTION |
| 3   | 4+785 LT  | DROP INLET PROTECTION      |
| 4   | 4+800 RT  | CURB DROP INLET PROTECTION |
| 5   | 4+796 RT  | DITCH AND SLOPE PROTECTION |
| 5   | 4+825 RT  | DITCH AND SLOPE PROTECTION |
| 3   | 4+818 LT  | DROP INLET PROTECTION      |
| 4   | 4+825 RT  | CURB DROP INLET PROTECTION |
| 3   | 4+826 RT  | DROP INLET PROTECTION      |
| 3   | 4+827 LT  | DROP INLET PROTECTION      |
| 3   | 4+863 LT  | DROP INLET PROTECTION      |
| 5   | 14+035 LT | DITCH AND SLOPE PROTECTION |
| 5   | 14+091 LT | DITCH AND SLOPE PROTECTION |
| 3   | 14+038 RT | DROP INLET PROTECTION      |
| 5   | 14+039 RT | DITCH AND SLOPE PROTECTION |
| 5   | 14+076 RT | DITCH AND SLOPE PROTECTION |
| 1   | 14+043 RT | CONSTRUCT SILT FENCE       |
| 1   | 14+075 RT | CONSTRUCT SILT FENCE       |
| 2   | 14+061 RT | CONSTRUCT CHECK DAM        |
| 3   | 14+092 LT | DROP INLET PROTECTION      |
| 4   | 40+015 LT | CURB DROP INLET PROTECTION |
| 4   | 40+015 RT | CURB DROP INLET PROTECTION |
| 3   | 40+030 LT | DROP INLET PROTECTION      |



US 2 &  
VT 14

### LEGEND

|  |                            |
|--|----------------------------|
|  | SILT FENCE                 |
|  | CHECK DAM                  |
|  | DITCH AND SLOPE PROTECTION |
|  | DROP INLET PROTECTION      |
|  | CURB DROP INLET PROTECTION |

|            |              |
|------------|--------------|
| DATUM      |              |
| VERTICAL   | NAVD 88      |
| HORIZONTAL | NAD 83(1992) |



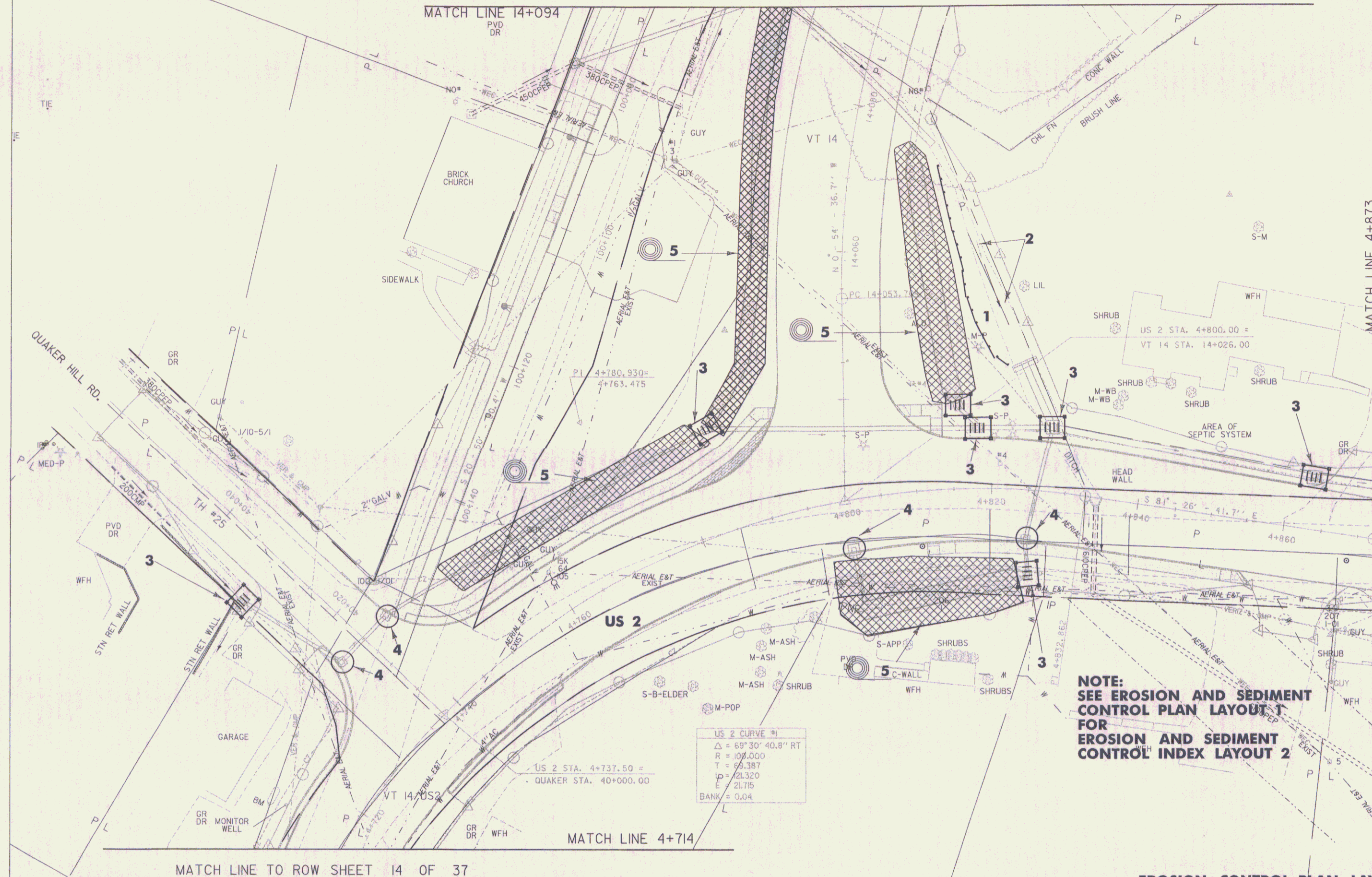
### EROSION CONTROL PLAN LAYOUT 1

|                   |                                        |              |                 |
|-------------------|----------------------------------------|--------------|-----------------|
| PROJECT:          | EAST MONTPELIER                        | PROJECT NO.: | STPG 028-3(35)S |
| DESIGN FILE NAME: | /sqda/98b028/db028...bdr_nul_top...dgn | PLOT DATE:   | 01-JUL-2008     |
| IPARM FILE NAME:  | db028epl                               | SURVEY DATE: | 8/98            |
| SURVEYED BY:      |                                        | DRAWN BY:    | Jfg             |
| SQUAD LEADER:     | Jls                                    | ROW SHEET    | 14 OF 37        |



MATCH LINE TO ROW SHEET 17 OF 37

MATCH LINE 14+094



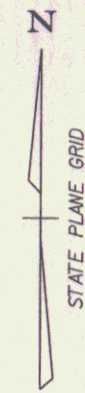
**NOTE:**  
SEE EROSION AND SEDIMENT  
CONTROL PLAN LAYOUT 1  
FOR  
EROSION AND SEDIMENT  
CONTROL INDEX LAYOUT 2

**EROSION CONTROL PLAN LAYOUT 2**

|                   |                                       |              |                 |
|-------------------|---------------------------------------|--------------|-----------------|
| PROJECT:          | EAST MONTPELIER                       | PROJECT NO.: | STPG 028-3(35)S |
| DESIGN FILE NAME: | sqda/98b028/db028...bdr,nul,top...dgn | PLOT DATE:   | 01-JUL-2008     |
| IPARM FILE NAME:  | db028ep2                              | SURVEY DATE: | 8/98            |
| SURVEYED BY:      | Jls                                   | DRAWN BY:    | Jfg             |
| SQUAD LEADER:     | Jls                                   | ROW SHEET    | 15 OF 37        |

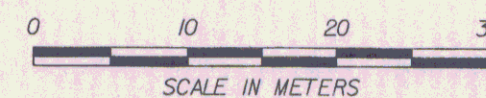
|            |              |
|------------|--------------|
| DATUM      |              |
| VERTICAL   | NAVD 88      |
| HORIZONTAL | NAD 83(1992) |





**EROSION CONTROL PLAN LAYOUT 3**

|                   |                                            |               |                 |
|-------------------|--------------------------------------------|---------------|-----------------|
| PROJECT:          | EAST MONTPELIER                            | PROJECT NO. 1 | STPG 028-3(35)S |
| DESIGN FILE NAME: | /sqda/98b028/db028...bdr...nul...top...dgn | PLOT DATE:    | 01-JUL-2008     |
| IPARM FILE NAME:  | db028ep3                                   | SURVEY DATE:  | 8/98            |
| SURVEYED BY:      | Jfg                                        | DRAWN BY:     | Jfg             |
| SQUAD LEADER:     | Jls                                        | ROW SHEET     | 16 OF 37        |

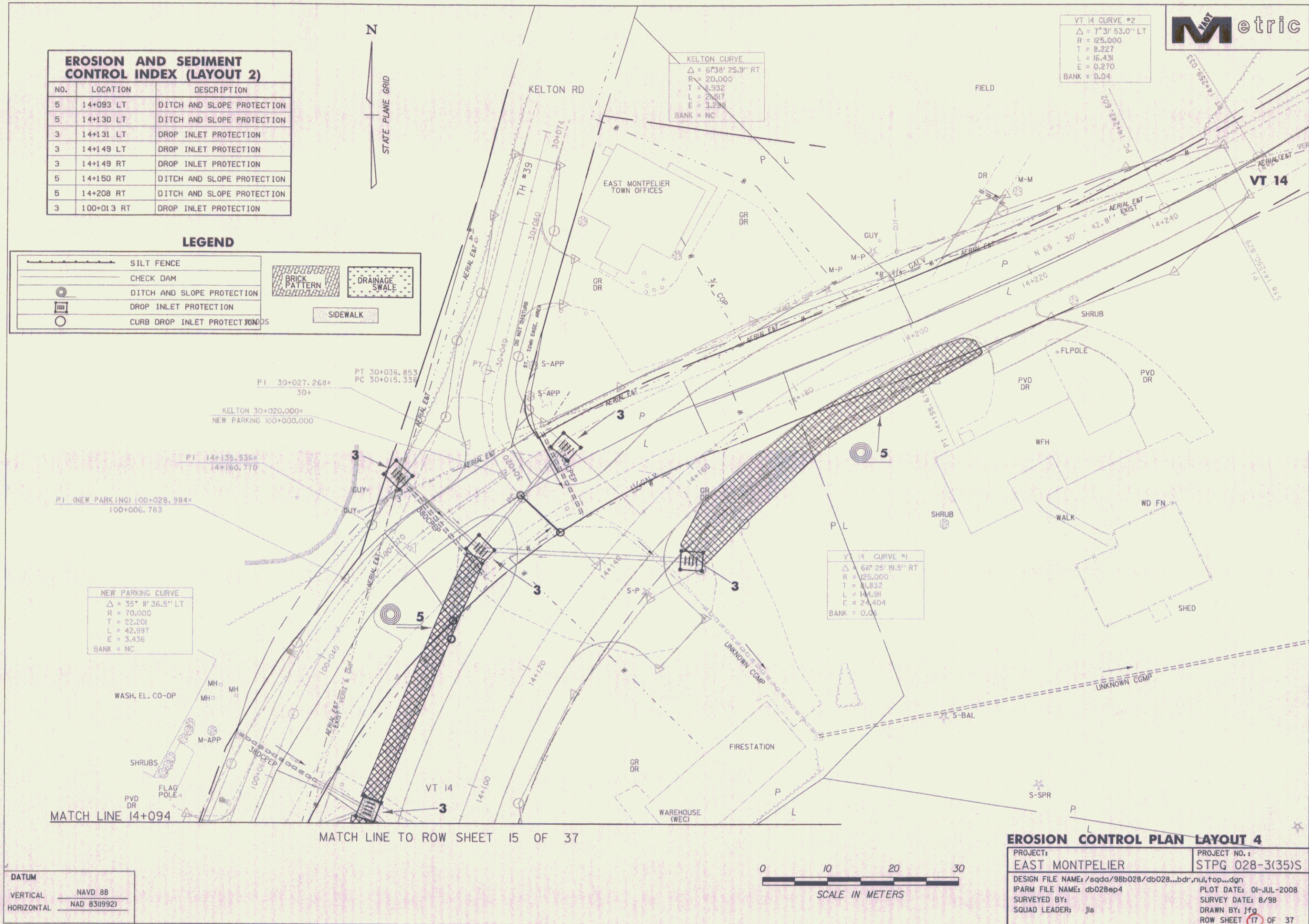




| EROSION AND SEDIMENT CONTROL INDEX (LAYOUT 2) |            |                            |
|-----------------------------------------------|------------|----------------------------|
| NO.                                           | LOCATION   | DESCRIPTION                |
| 5                                             | 14+093 LT  | DITCH AND SLOPE PROTECTION |
| 5                                             | 14+130 LT  | DITCH AND SLOPE PROTECTION |
| 3                                             | 14+131 LT  | DROP INLET PROTECTION      |
| 3                                             | 14+149 LT  | DROP INLET PROTECTION      |
| 3                                             | 14+149 RT  | DROP INLET PROTECTION      |
| 5                                             | 14+150 RT  | DITCH AND SLOPE PROTECTION |
| 5                                             | 14+208 RT  | DITCH AND SLOPE PROTECTION |
| 3                                             | 100+013 RT | DROP INLET PROTECTION      |

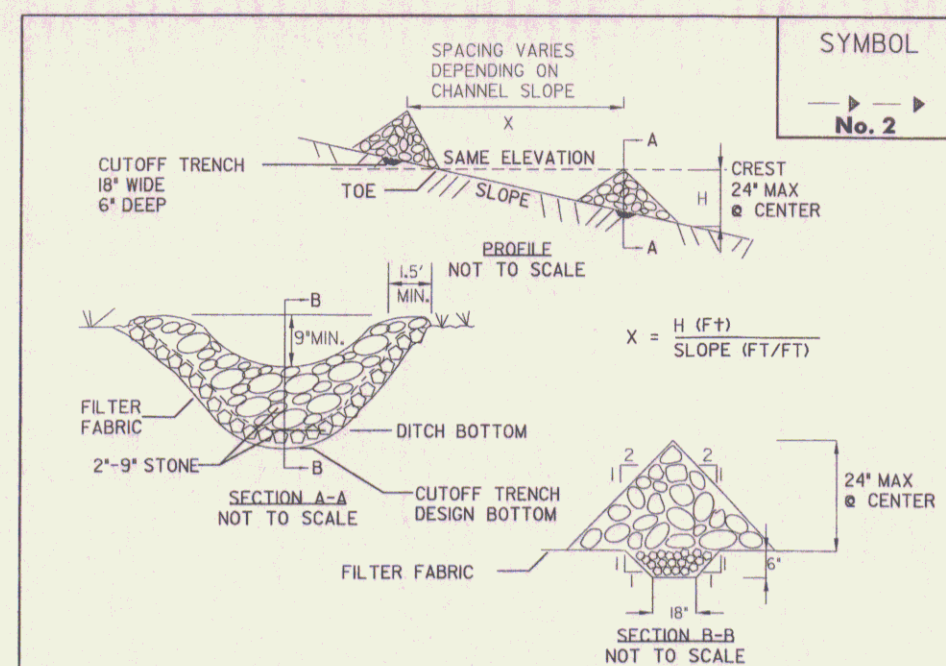
#### LEGEND

|  |                            |  |                       |
|--|----------------------------|--|-----------------------|
|  | SILT FENCE                 |  | BRICK PATTERN         |
|  | CHECK DAM                  |  | DRAINAGE SWALE        |
|  | DITCH AND SLOPE PROTECTION |  | DROP INLET PROTECTION |
|  | CURB DROP INLET PROTECTION |  | SIDEWALK              |



| EROSION CONTROL PLAN LAYOUT 4 |                                        |
|-------------------------------|----------------------------------------|
| PROJECT:                      | EAST MONTEPELIER                       |
| PROJECT NO.:                  | STPG 028-3(35)S                        |
| DESIGN FILE NAME:             | /sqda/98b028/db028...bdr,nul,top...dgn |
| IPARM FILE NAME:              | db028ep4                               |
| SURVEYED BY:                  | Jjs                                    |
| SQUAD LEADER:                 | Jjs                                    |
| PLOT DATE:                    | 01-JUL-2008                            |
| SURVEY DATE:                  | 8/98                                   |
| DRAWN BY:                     | Jjs                                    |
| ROW SHEET:                    | 17 OF 37                               |





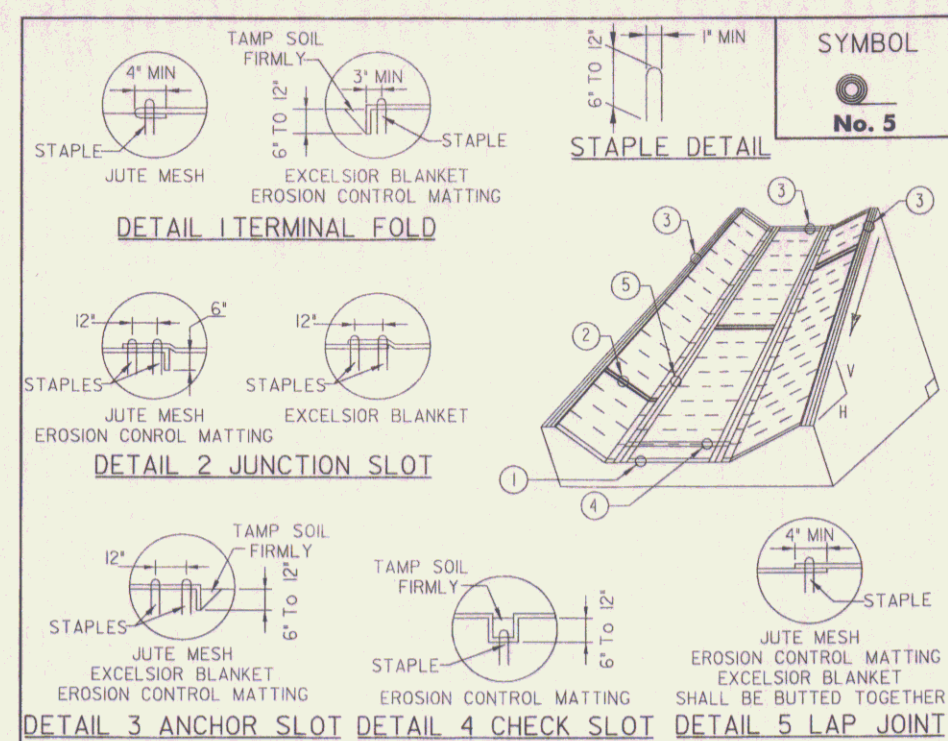
1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION.
2. SET SPACING OF CHECK DAMS SO THAT THE ELEVATION OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION AS THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DECORIGINALLY  
DEVELOPED BY USDA-NRCSVERMONT DEPARTMENT OF ENVIRONMENTAL  
CONSERVATION

NOTES:  
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION  
PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF  
NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS ITEM SHALL BE PAID FOR UNDER ITEM  
653.25 TEMPORARY STONE CHECK DAM, TYPE I

|               |     |
|---------------|-----|
| REVISIONS     |     |
| MARCH 8, 2007 | JMF |
|               |     |
|               |     |
|               |     |

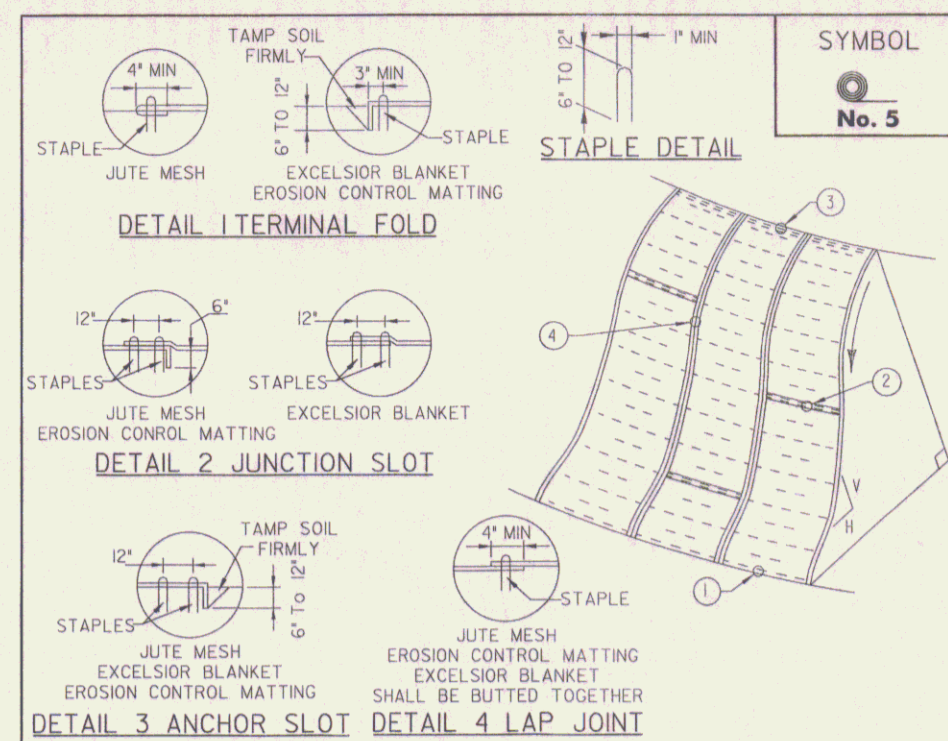


1. EROSION MATTING, CHICK SLOTS, SHALL BE SPACED IN DITCH CHANNEL SO THAT ONE OCCURS WITHIN EACH 50' ON SLOPES OF MORE THAN 4% AND LESS THAN 6%. ON SLOPES OF 6% OR MORE, THEY SHALL BE SPACED SO THAT ONE OCCURS WITHIN EACH 25'.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'X25' ROLL OF MATERIAL. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'X50' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

ADAPTED FROM DETAILS PROVIDED BY: ILLINOIS USDA-NRCS  
ORIGINALLY DEVELOPED BY: USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NOTES:  
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION  
PREVENTION & SEDIMENT CONTROL -2006-" FROM THE VT AGENCY OF  
NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS ITEM SHALL BE PAID FOR UNDER ITEM  
653.20 TEMPORARY EROSION MATTING OR  
653.21 PERMANENT EROSION MATTING



1. APPLY TO SLOPES GREATER THAN 3H:1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. APPLY FERTILIZER, LIME AND SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 12 STAPLES ARE REQUIRED PER 4'X25' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4'X150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED, EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

ADAPTED FROM DETAILS PROVIDED BY: ILLINOIS USDA-NRCS  
ORIGINALLY DEVELOPED BY USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NOTES:  
REFER TO 'THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION  
PREVENTION & SEDIMENT CONTROL -2006-' FROM THE VT AGENCY OF  
NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS ITEM SHALL BE PAID FOR UNDER ITEM  
653.20 TEMPORARY EROSION MATTING OR  
653.21 PERMANENT EROSION MATTING

|                |     |
|----------------|-----|
| NEW            |     |
| APRIL 16, 2007 | WHF |
| REVISIONS      |     |
|                |     |
|                |     |
|                |     |

## EPSC DETAIL SHEETS

|                 |                 |
|-----------------|-----------------|
| PROJECT NAME:   | EAST MONTPELIER |
| PROJECT NUMBER: | STPG 028-3(35)S |

FILE NAME: db028eros.dgn PLOT

FILE NAME: db028eros.dgn  
PROJECT LEADER: JLS  
DESIGNED BY: JFG

PROJECT LEADER: JLS  
DESIGNED BY: JFG

PLOT DATE: 01-JUL-2008

DRAWN BY: WF  
CHECKED BY:

ROW SHEET 18 OF 37

18



**2'x4' WOOD FRAME**  
1.5' MAX.  
**STAKE**  
**FABRIC**  
3' MIN.  
**BURIED FABRIC**  
1' MIN.  
**DROP INLET WITH GATE**  
**FRAME**  
**GATHER EXCESS AT CORNERS**

**SYMBOL**  
  
**No. 3**

**CONSTRUCTION SPECIFICATIONS**

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

MAXIMUM DRAINAGE AREA 1 ACRE

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
ORIGINALLY DEVELOPED BY USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**FILTER FABRIC  
DROP INLET  
PROTECTION**

NOTES:  
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006-" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS ITEM SHALL BE PAID FOR UNDER ITEM  
653.40 INLET PROTECTION DEVICE, TYPE 1

| REVISIONS     |     |  |
|---------------|-----|--|
| MARCH 8, 2007 | JMF |  |
|               |     |  |
|               |     |  |
|               |     |  |

**2' MINIMUM LENGTH OF 2'x4'**  
**SAND BAG OR ALTERNATE WEIGHT**  
**2' x 4' WEIR**  
**2' STONE**  
**FILTER CLOTH**  
**2' x 4' SPACER**  
**WIRE MESH**  
**INLET TO PIPE**  
**6' MAXIMUM SPACING OF 2'x4' SPACERS**  
**THROAT DIST.**  
**2' x 4' ANCHORS**  
**STONE**  
**CLOTH**  
**MESH**  
**2' x 4' WEIR**  
**2' x 4' SPACER**

**SYMBOL**  
  
**No. 4**

**CONSTRUCTION SPECIFICATIONS**

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85.
2. WOODEN FRAME SHALL BE CONSTRUCTED OF 2" x 4" CONSTRUCTION GRADE LUMBER.
3. WIRE MESH ACROSS THROAT SHALL BE A CONTINUOUS PIECE 30 INCH MINIMUM WIDTH WITH A LENGTH 4 FEET LONGER THAN THE THROAT. IT SHALL BE SHAPED AND SECURELY NAILED TO A 2" x 4" WEIR.
4. THE WEIR SHALL BE SECURELY NAILED TO 2" x 4" SPACERS 9 INCHES LONG SPACED NO MORE THAN 6 FEET APART.
5. THE ASSEMBLY SHALL BE PLACED AGAINST THE INLET AND SECURED BY 2" x 4" ANCHORS 2 FEET LONG EXTENDING ACROSS THE TOP OF THE INLET AND HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHTS.

MAXIMUM DRAINAGE AREA 1 ACRE

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
ORIGINALLY DEVELOPED BY USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**CURB DROP INLET  
PROTECTION**

NOTES:  
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006-" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS ITEM SHALL BE PAID FOR UNDER ITEM  
653.40 INLET PROTECTION DEVICE, TYPE 1

**WOVEN WIRE FENCE (MIN. 14 GAUGE W/ MAX. 6" MESH SPACING)**  
**POST SPACING SEE NOTE #3**  
**HEIGHT OF FILTER = 16" MIN.**  
**6" MIN.**  
**PERSPECTIVE VIEW**  
**WOVEN WIRE FENCE**  
**FABRIC UPSLOPE OF WIRE**  
**FLOW**  
**COMPACTED SOIL**  
**EMBED FILTER A MIN. OF 6" IN GROUND.**  
**SECTION VIEW**  
**36" MIN. LENGTH FENCE POSTS DRIVEN MIN. 16" INTO GROUND.**  
**20" MIN.**  
**16" MIN.**  
**4"**

**SYMBOL**  
  
**No. 1**

**CONSTRUCTION SPECIFICATIONS**

1. WOVEN WIRE FENCE REINFORCEMENT IS ONLY REQUIRED WITHIN 100 FT UPSLOPE OF RECEIVING WATERS.
2. WHERE REQUIRED FENCE SHALL BE WOVEN WIRE, MIN. 14 GAUGE WITH A 6" MAXIMUM MESH OPENING. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAF100X, STABILINKA THON OR APPROVED EQUIVALENT.
3. POST SPACING FOR WIRE-BACKED FENCE SHALL BE 10' MAXIMUM. FOR FILTER-CLOTH FENCE, WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4'. FOR FILTER-CLOTH FENCE, WHEN ELONGATION IS <50%, POST SPACING SHALL NOT EXCEED 6'.
4. WOVEN WIRE FENCE IS TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. FILTER CLOTH IS TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED.
6. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
7. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
ORIGINALLY DEVELOPED BY USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**SILT FENCE**

NOTES:  
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006-" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS ITEM SHALL BE PAID FOR UNDER ITEM  
649.51 GEOTEXTILE FOR SILT FENCE (FILTER FABRIC ONLY FENCE)  
900 SERIES SPECIAL PROVISION (WOVEN WIRE REINFORCED FENCE)

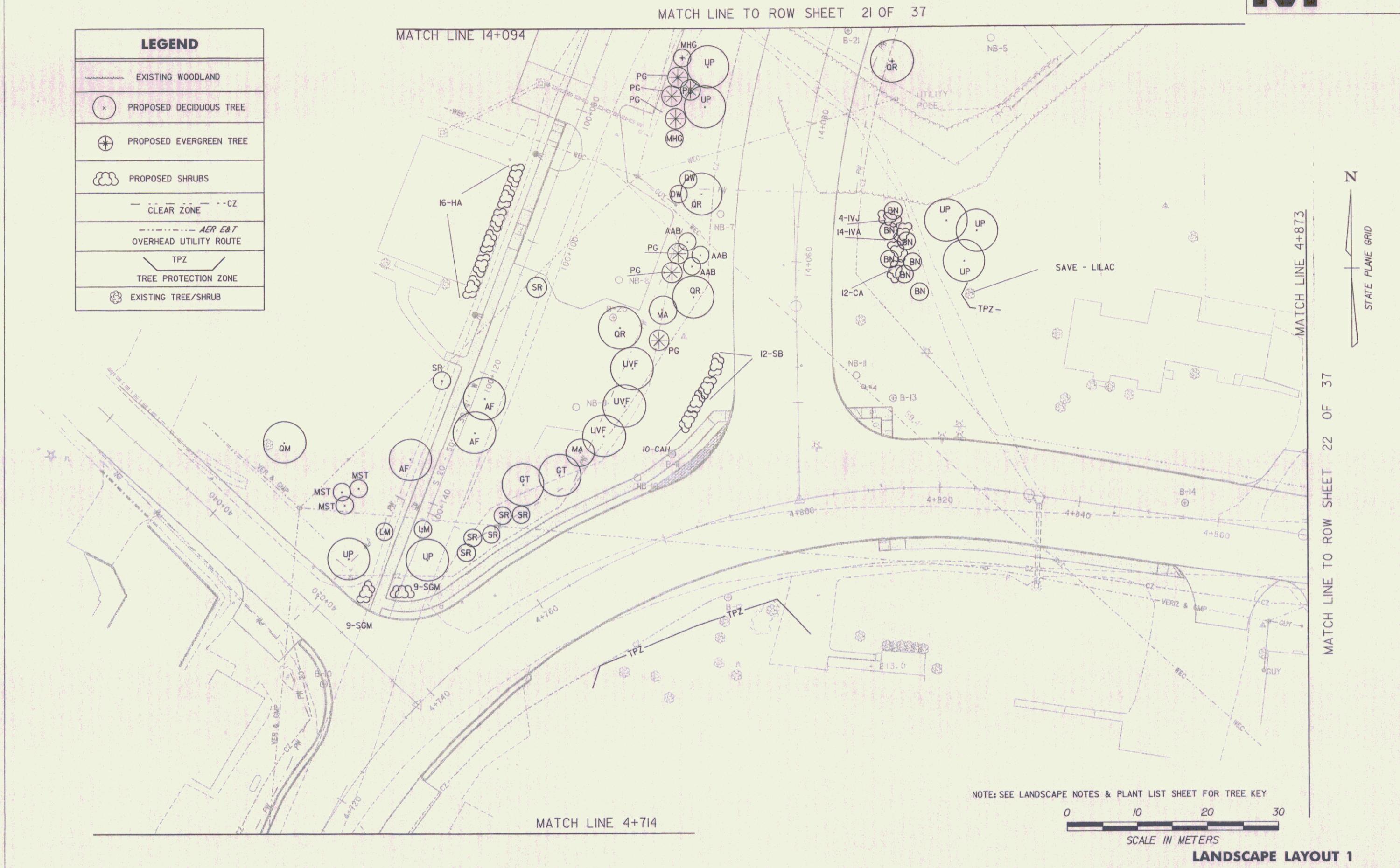
EPSC DETAIL SHEETS

|                 |                  |
|-----------------|------------------|
| PROJECT NAME:   | EAST MONTEPELIER |
| PROJECT NUMBER: | STPG 028-3(35)S  |
| FILE NAME:      | db028eros.dgn    |
| PROJECT LEADER: | JLS              |
| DESIGNED BY:    | JFG              |
| PLOT DATE:      | 01-JUL-2008      |
| DRAWN BY:       | WF               |
| CHECKED BY:     |                  |
| ROW SHEET       | 19 OF 37         |

NTS



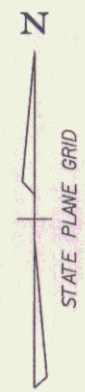
| LEGEND |                                |
|--------|--------------------------------|
|        | EXISTING WOODLAND              |
|        | PROPOSED DECIDUOUS TREE        |
|        | PROPOSED EVERGREEN TREE        |
|        | PROPOSED SHRUBS                |
|        | CLEAR ZONE                     |
|        | AER E&T OVERHEAD UTILITY ROUTE |
|        | TPZ                            |
|        | TREE PROTECTION ZONE           |
|        | EXISTING TREE/SHRUB            |



| DATUM      |              |
|------------|--------------|
| VERTICAL   | NAVD 88      |
| HORIZONTAL | NAD 83(1992) |

|                   |                                        |              |                 |
|-------------------|----------------------------------------|--------------|-----------------|
| PROJECT:          | EAST MONTPELIER                        | PROJECT NO.: | STPG 028-3(35)S |
| DESIGN FILE NAME: | /sqda/98b028/db028...bdr,nul,top...dgn | PLOT DATE:   | 01-JUL-2008     |
| IPARM FILE NAME:  | db028ip1                               | SURVEY DATE: | 8/98            |
| SURVEYED BY:      |                                        | DRAWN BY:    | Jfg             |
| SQUAD LEADER:     | Jls                                    | ROW SHEET    | 20 OF 37        |



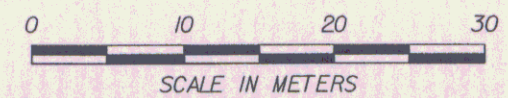


| LEGEND |                               |
|--------|-------------------------------|
|        | EXISTING WOODLAND             |
|        | PROPOSED DECIDUOUS TREE       |
|        | PROPOSED EVERGREEN TREE       |
|        | PROPOSED SHRUBS               |
|        | CLEAR ZONE - -CZ              |
|        | AERIAL OVERHEAD UTILITY ROUTE |
|        | TPZ                           |
|        | TREE PROTECTION ZONE          |
|        | EXISTING TREE/SHRUB           |

MATCH LINE 14+094

MATCH LINE TO ROW SHEET 22 OF 37

| DATUM      |              |
|------------|--------------|
| VERTICAL   | NAVD 88      |
| HORIZONTAL | NAD 83(1992) |



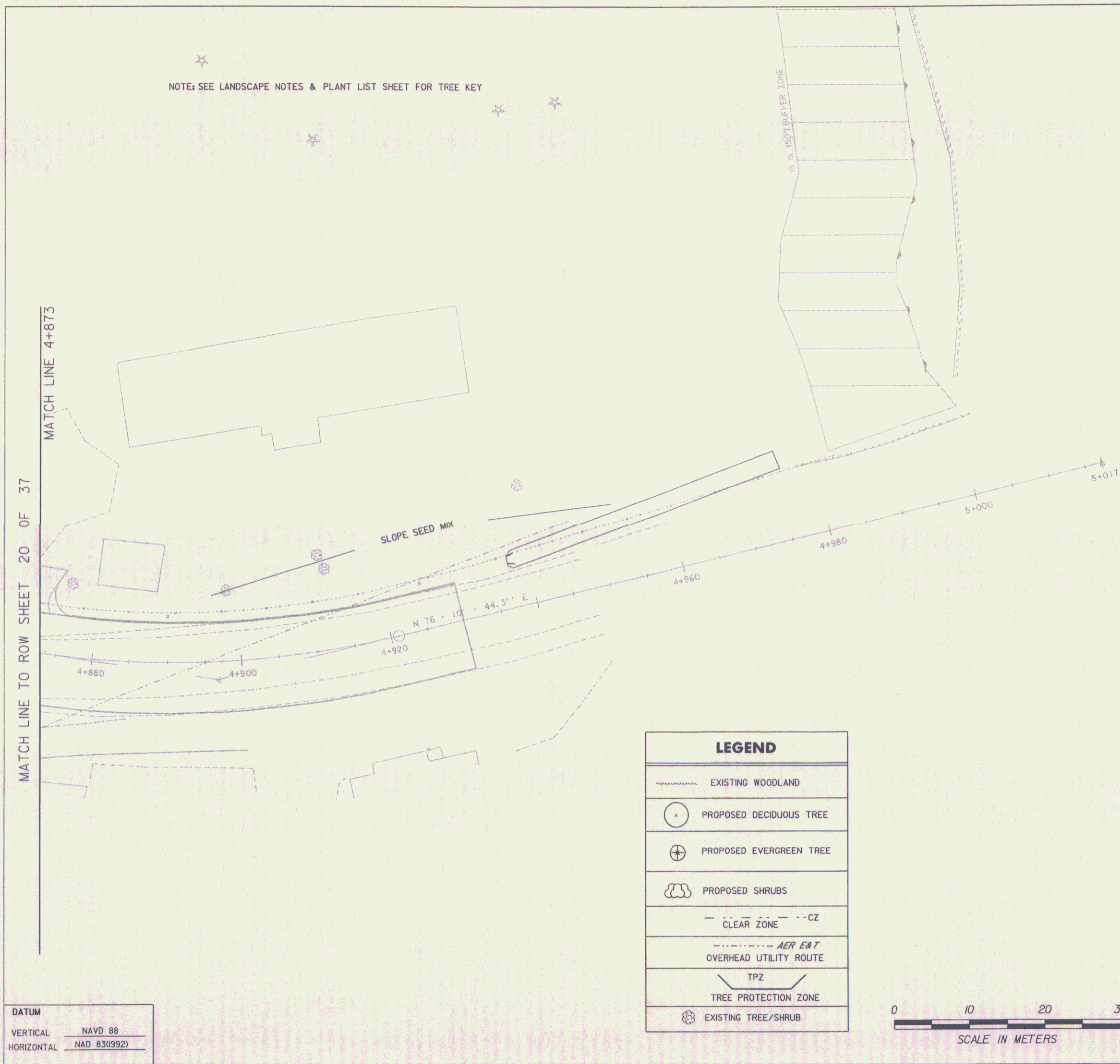
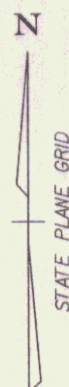
NOTE: SEE LANDSCAPE NOTES & PLANT LIST SHEET FOR TREE KEY

### LANDSCAPE LAYOUT 2

|                                                          |                                        |
|----------------------------------------------------------|----------------------------------------|
| PROJECT:<br><b>EAST MONTPELIER</b>                       | PROJECT NO.:<br><b>STPG 028-3(35)S</b> |
| DESIGN FILE NAME: /sqda/98b028/db028...bdr,nul,top...dgn | PLOT DATE: 01-JUL-2008                 |
| IPARM FILE NAME: db028lp2                                | SURVEY DATE: 8/98                      |
| SURVEYED BY: Jls                                         | DRAWN BY: Jfg                          |
| SQUAD LEADER: Jls                                        | ROW SHEET 21 OF 37                     |

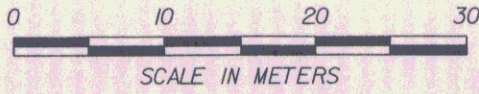


NOTE: SEE LANDSCAPE NOTES & PLANT LIST SHEET FOR TREE KEY



| DATUM      |              |
|------------|--------------|
| VERTICAL   | NAVD 88      |
| HORIZONTAL | NAD 83(1992) |

| LEGEND |                         |
|--------|-------------------------|
|        | EXISTING WOODLAND       |
|        | PROPOSED DECIDUOUS TREE |
|        | PROPOSED EVERGREEN TREE |
|        | PROPOSED SHRUBS         |
|        | CLEAR ZONE CZ           |
|        | OVERHEAD UTILITY ROUTE  |
|        | TPZ                     |
|        | EXISTING TREE/SHRUB     |



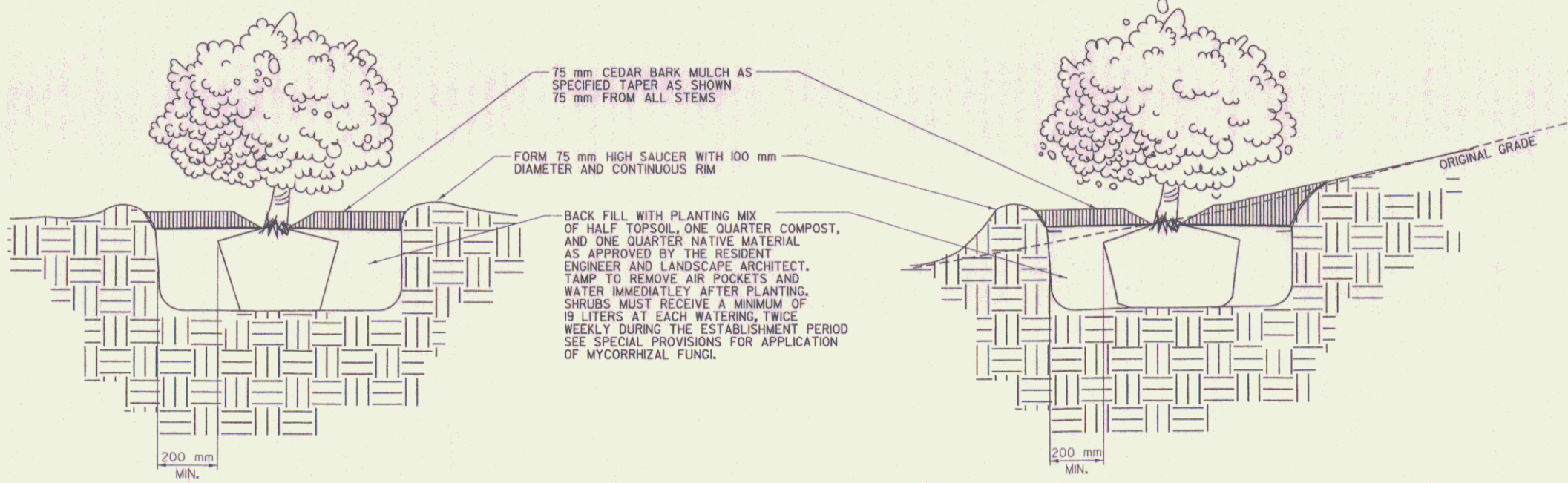
NOTE: SEE LANDSCAPE NOTES & PLANT LIST SHEET FOR TREE KEY

LANDSCAPE LAYOUT 3

|                                                          |                                 |
|----------------------------------------------------------|---------------------------------|
| PROJECT:<br>EAST MONTPELIER                              | PROJECT NO.:<br>STPG 028-3(35)S |
| DESIGN FILE NAME: /sqda/98b028/db028...bdr_nul_top...dgn | PLOT DATE: 01-JUL-2008          |
| IPARM FILE NAME: db028lp3                                | SURVEY DATE: 8/98               |
| SURVEYED BY:                                             | DRAWN BY: JTs                   |
| SQUAD LEADER: Jls                                        | ROW SHEET 22 OF 37              |

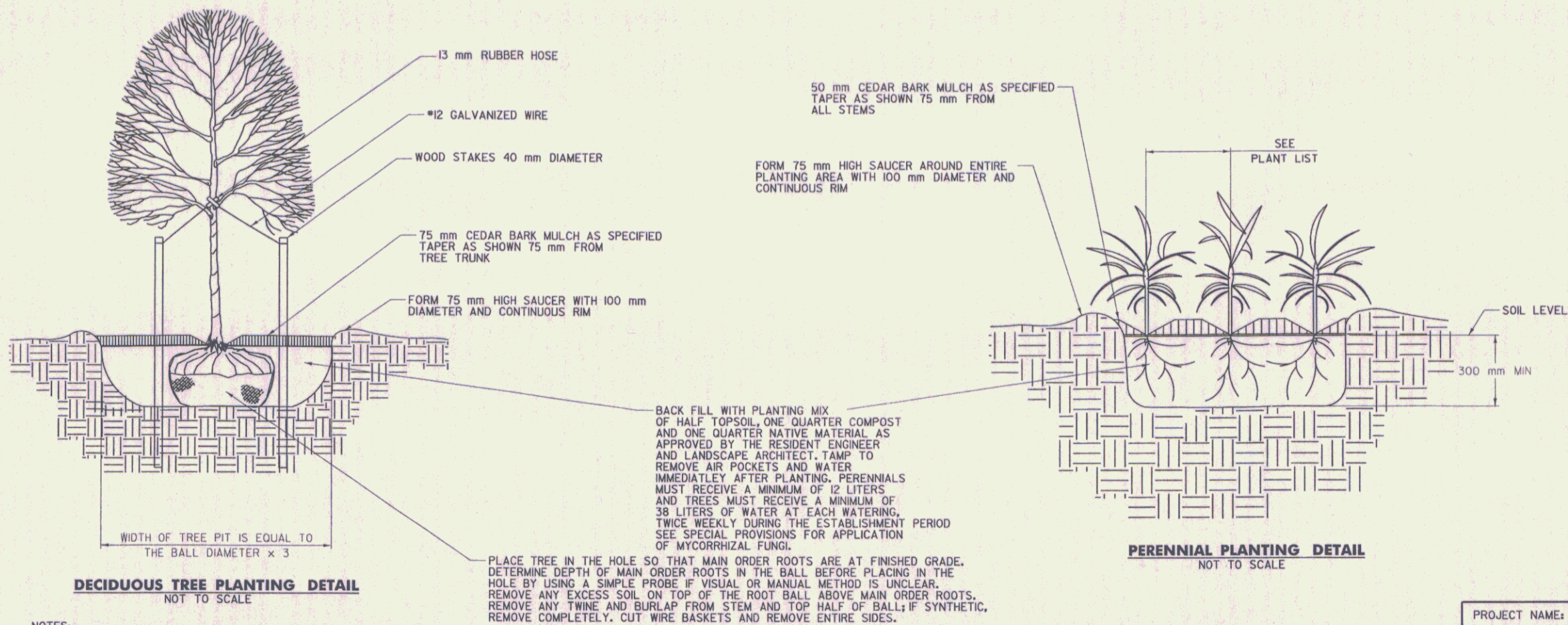


# LANDSCAPE DETAILS



**SHRUB PLANTING DETAIL**  
NOT TO SCALE

**SHRUB PLANTING ON SLOPES DETAIL**  
NOT TO SCALE



**DECIDUOUS TREE PLANTING DETAIL**  
NOT TO SCALE

**PERENNIAL PLANTING DETAIL**  
NOT TO SCALE

- NOTES:**
1. STAKE ONLY THOSE TREES PLANTED IN WINDY, EXPOSED LOCATIONS WHERE THEY MIGHT BE BLOWN OVER OR VANDALIZED AS DETERMINED BY RESIDENT ENGINEER OR LANDSCAPE ARCHITECT.
  2. COMPLETELY REMOVE ALL GUY WIRES, RUBBER HOSE, AND STAKES ONE YEAR AFTER PLANTING.

PLANT SOURCES ARE LISTED BELOW:

HORSEFORD GARDENS & NURSERY  
211 GREENBUSH RD.  
CHARLOTTE, VT 05445  
802-425-2811  
LORITAXTER

HIGH REACH FARM  
2847 TAMPICO RD.  
DANVILLE, VT 05828  
802-748-3512  
STEVE PARKER & SUSANNE TERRY

COBBLE CREEK NURSERY  
WHOLESALE GROWERS  
RD #2, BOX 3850  
BRISTOL, VT 05433  
802-453-3889  
JOHN PADUA

ELMORE ROOTS NURSERY  
PO BOX 171  
ELMORE, VT 05657  
1-800-42PLANT OR 888-3305  
WWW.ELMOREROOTS.COM  
DAVID L. FRIED

4 SEASONS GARDEN CENTER  
427 MARSHALL AVENUE  
WILLISTON, VT 05495  
802-862-6036  
COMMERCIAL@4SEASONS.GC.COM

PROJECT NAME: EAST MONTPELIER  
PROJECT NUMBER: STPG 028-3(35)S  
FILE NAME: 98b028/traff/ab028LSC.dgn PLOT DATE: 01-JUL-2008  
PROJECT LEADER: JLS DRAWN BY: JFG  
DESIGNED BY: J Brown CHECKED BY:  
ROW SHEET 23 OF 37



PLANT LIST

East Montpelier VT  
STPG 028 - 3 (35) S

PLANT LIST

| QTY                   | KEY | BOTANICAL NAME                              | COMMON NAME               | SIZE                | CONTAINER | REMARKS |
|-----------------------|-----|---------------------------------------------|---------------------------|---------------------|-----------|---------|
| SMALL DECIDUOUS TREES |     |                                             |                           |                     |           |         |
|                       |     |                                             |                           |                     |           | 656.03  |
|                       | AAB | AMELANCHIER "AUTUMN BRILLIANCE"             | SERVICEBERRY              | 1 3/4"-2" CAL       | B & B     | SPRING  |
|                       | LM  | MAGNOLIA X LOEBNERI "LEONARD MESSEL"        | "AUTUMN BRILLIANCE"       | 1 3/4"-2" CAL       | B & B     | SPRING  |
|                       | MA  | MALUS "ADAMS"                               | "LEONARD MESSEL"          | 1 3/4"-2" CAL       | B & B     | SPRING  |
|                       | MDW | MALUS "DONALD WYMAN"                        | MAGNOLIA                  | 1 3/4"-2" CAL       | B & B     | SPRING  |
|                       | MHG | MALUS "HARVEST GOLD"                        | "ADAMS" CRABAPPLE         | 1 3/4"-2" CAL       | B & B     | SPRING  |
|                       | MPF | MALUS "PRAIRIE FIRE"                        | "DONALD WYMAN" CRABAPPLE  | 1 3/4"-2" CAL       | B & B     | SPRING  |
|                       | MST | MALUS "SUGAR TYME"                          | "HARVEST GOLD" CRABAPPLE  | 1 3/4"-2" CAL       | B & B     | SPRING  |
|                       | SR  | SYRINGA RETICULATA "IVORY SILK"             | "PRAIRIE FIRE" CRABAPPLE  | 1 3/4"-2" CAL       | B & B     | SPRING  |
|                       |     |                                             | "SUGAR TYME" CRABAPPLE    | 1 3/4"-2" CAL       | B & B     | SPRING  |
|                       |     |                                             | "IVORY SILK" TREE LILAC   | 1 3/4"-2" CAL       | B & B     | SPRING  |
| LARGE DECIDUOUS TREES |     |                                             |                           |                     |           |         |
|                       | AF  | ACER FREMANII X AUTUMN BLAZE                | "AUTUMN BLAZE" MAPLE      | 2" - 2 1/2" CAL     | B & B     | SPRING  |
|                       | BN  | BETLA NIGRA " HERITAGE"                     | "HERITAGE RIVER BIRCH     | 2" - 2 1/2" CALIPER | B & B     | SPRING  |
|                       | FP  | FRAXINUS PENNSYLVANICA "SUMMIT"             | "SUMMIT" GREEN ASH        | 2" - 2 1/2" CALIPER | B & B     | SPRING  |
|                       | GT  | GLEDITSIA TRIACANTHOS INERMIS "SHADEMASTER" | "SHADEMASTER" HONEYLOCUST | 2" - 2 1/2" CALIPER | B & B     | SPRING  |
|                       | TC  | TILIA CORDATA "GREENSPIRE"                  | LINDEN "GREENSPIRE"       | 2" - 2 1/2" CALIPER | B & B     | SPRING  |
|                       | QM  | QUERCUS MACROCARPA                          | BURR OAK                  | 2" - 2 1/2" CAL     | B & B     | SPRING  |
|                       | QR  | QUERCUS RUBRA                               | RED OAK                   | 2" - 2 1/2" CAL     | B & B     | SPRING  |
|                       | UP  | ULMUS AMERICANA "PRINCETON"                 | "PRINCETON" ELM           | 2" - 2 1/2" CALIPER | B & B     | SPRING  |
|                       | UVF | ULMUS AMERICANA "VALLEY FORGE"              | "VALLEY FORGE" ELM        | 2" - 2 1/2" CALIPER | B & B     | SPRING  |
| EVERGREEN TREES       |     |                                             |                           |                     |           |         |
|                       | PG  | PICEA GLAUCA                                | WHITE SPRUCE              | 7'-8" Height        | B & B     | SPRING  |
| DECIDUOUS SHRUBS      |     |                                             |                           |                     |           |         |
|                       | CAH | CLETHRA ALNIFOLIA "Hummingbird"             | HUMMINGBIRD SUMMERSWEET   | 18" Height          | Container | SPRING  |
|                       | CA  | CLETHRA ALNIFOLIA "Ruby Spice"              | RUBY SPICE SUMMERSWEET    | 24" Height          | Container | SPRING  |
|                       | HA  | HYDRANGEA ARBORESCENS "ANNABELLE"           | ANNABELLE HYDRANGEA       | 24" Height          | Container | SPRING  |
|                       | IVJ | ILEX VERTICILATA "Jim Dandy"                | WINTERBERRY "Jim Dandy"   | 36" Height          | Container | SPRING  |
|                       | IVA | ILEX VERTICILATA "Afterglow"                | WINTERBERRY "Afterglow"   | 36" Height          | Container | SPRING  |
|                       | SGM | SPIREA X " GOLD MOUND"                      | "GOLD MOUND" SPIREA       | 18" Height          | Container | SPRING  |

TREE PROTECTION NOTES:

1. DURING CONSTRUCTION: PROTECT TREES TO BE SAVED BY ERECTING ORANGE SNOW FENCE JUST AT LIMIT OF CONSTRUCTION AS INDICATED (PLEASE SEE LANDSCAPE PLANS AND TREE PROTECTION DETAIL). INSTALL SIGNAGE AT EACH PROTECTION ZONE WHICH CLEARLY READS: "TREES ARE BEING PROTECTED. NO UNAUTHORIZED TRESPASS IS ALLOWED".
2. AVOID CUTTING ROOTS OF TREES WHENEVER POSSIBLE. WHEN AVOIDANCE IS NOT POSSIBLE, CUT ROOTS FLUSH (SAW THOSE ROOTS GREATER THAN 25 MM WIDE), WHICH WILL ENCOURAGE NEW ROOT GROWTH. DO NOT RIP ROOTS WITH EXCAVATOR OR OTHER HEAVY EQUIPMENT.
3. BACKFILL AS SOON AS POSSIBLE; KEEP ROOT ENDS MOIST WITH WET BURLAP OR SIMILAR MATERIAL UNTIL ABLE TO BACKFILL. ADD A ROOT STIMULATOR SUCH AS MYCORRHIZAL FUNGI PER MANUFACTURER'S INSTRUCTIONS, AND WATER (PER APPROVED WATERING SPECIFICATIONS) THE ENTIRE BACKFILL AREA WITHIN 24 HOURS.
4. NO EXCAVATED OR BACKFILL MATERIAL SHALL BE PILED IN TREE PROTECTION ZONE; NO EQUIPMENT SHALL BE STORED OR PILED IN TREE PROTECTION ZONE.
5. IF A PROTECTED TREE IS DAMAGED DUE TO THE CONTRACTOR'S NEGLIGENCE AND IS NOT REPAIRABLE (AS DETERMINED BY THE ENGINEER OR VAOT LANDSCAPE ARCHITECT), THEN THE CONTRACTOR SHALL REPLACE THE TREE (AT THE CONTRACTOR'S EXPENSE AND ACCORDING TO APPROVED PLANTING TECHNIQUES) WITH THE SAME TREE OF EQUAL VALUE, OR TWO OR MORE TREES WITH A TOTAL VALUE EQUAL TO THAT OF THE DAMAGED TREE. IN ADDITION, WITH THE EXCEPTION OF FENCING, ALL TREE PROTECTION MEASURES, ROOT PRUNING, AND OTHER MATERIALS WILL NOT BE PAID SEPARATELY, BUT WILL BE CONSIDERED INCIDENTAL TO ALL OTHER LANDSCAPING CONTRACT ITEMS.

THE FOLLOWING SIGNIFICANT TREES WITHIN THE R.O.W. ARE INDICATED TO BE SAVED:

| STATION: | TREES:      |
|----------|-------------|
| X+XXX RT | 900 XXXXXXX |
| X+XXX LT | 400 XXXXX   |

LANDSCAPE NOTES  
& PLANT LIST SHEET

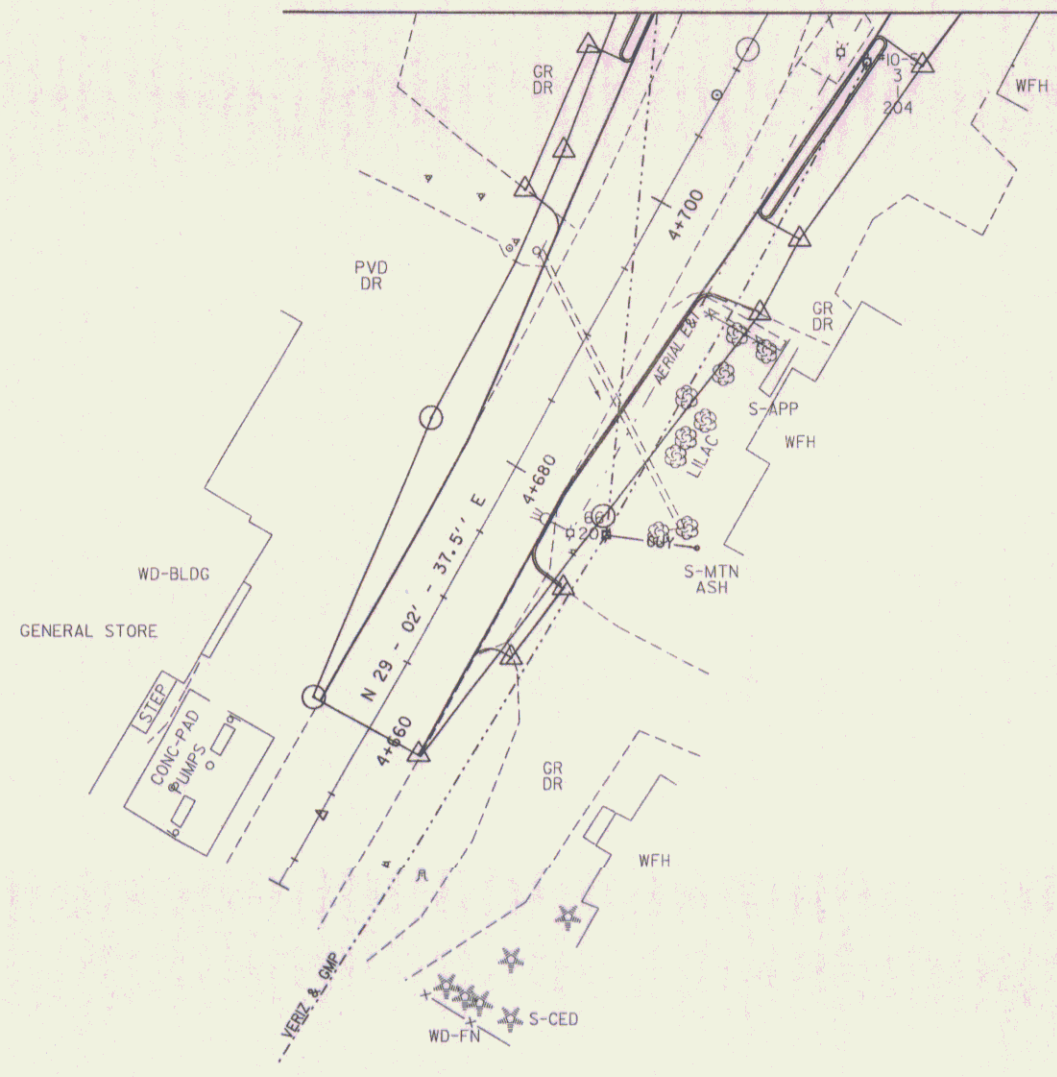
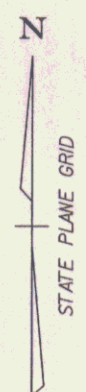
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|-----------------|---------------------------|
| PROJECT NAME:   | EAST MONTEPELIER          |
| PROJECT NUMBER: | STPG 028-3(35)S           |
| FILE NAME:      | 98b028/traff/db028LSC.dgn |
| PROJECT LEADER: | JLS                       |
| DESIGNED BY:    | J Brown                   |
| PLOT DATE:      | 01-JUL-2008               |
| DRAWN BY:       | JFG                       |
| CHECKED BY:     |                           |
| ROW SHEET       | 24 OF 37                  |





MATCH LINE TO ROW SHEET 26 OF 37

MATCH LINE 4+714



**DRAINAGE NOTES - EXISTING**

30 4+689.5 CL - 380mm GMP - Retain

**UNDERDRAIN**

4+700.0 RT - 4+800.0 RT  
New 150mm x 94m Underdrain

**REMOVE FENCE**

4+695 RT

**CONSTRUCT DRIVES**

4+672 RT (6.1M PAVED)  
4+699 RT (5.8M PAVED)  
4+702 LT (10.5M PAVED)

**CONSTRUCT DRIVE APRON**

4+660 LT - 4+692 LT (PAVED)

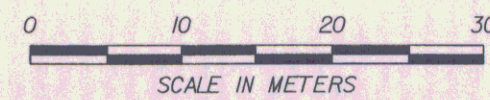
*approximate location of septic line to tank on Montague's*

*approximate location of septic line to tank on Montague's*

*monitoring system of State for Biron, across Lamb's on Hasland, LLC*

**DRAINAGE PLAN LAYOUT 1**

| DATUM      |              |
|------------|--------------|
| VERTICAL   | NAVD 88      |
| HORIZONTAL | NAD 83(1992) |



|                   |                                        |              |                 |
|-------------------|----------------------------------------|--------------|-----------------|
| PROJECT:          | EAST MONTPELIER                        | PROJECT NO.: | STPG 028-3(35)S |
| DESIGN FILE NAME: | /sqda/98b028/db028...bdr,nul,top...dgn | PLOT DATE:   | 01-JUL-2008     |
| IPARM FILE NAME:  | db028d11                               | SURVEY DATE: | 8/98            |
| SURVEYED BY:      |                                        | DRAWN BY:    | Jfg             |
| SQUAD LEADER:     | Jls                                    | ROW SHEET    | 25 OF 37        |



DRAINAGE NOTES - NEW

- 1 40+030.5 LT - 40+015 LT - New 450mm x 15.2m Option Pipe w/PRCDI w/Type A grate
- 2 40+015.0 LT - 40+015.0 RT - New 450mm x 8.2m Option Pipe w/PRCDI w/Type D Grate
- 3 40+015.0 RT - 4+785.5 LT - New 450mm x 50.0m Option Pipe w/PRCDI w/Type D Grate
- 4 4+785.5 LT - 4+818.0 LT - New 600mm x 37.0m Option Pipe w/PRCDI w/Type A Grate
- 5 4+827.5 LT - 4+863.0 LT - New 900mm x 35.0m Option Pipe w/PRCCB w/Type B Grate
- 6 4+863.0 LT - 4+900.0 LT - New 900mm x 35.0m Option Pipe w/PRCCB w/Type A Grate
- 9 4+823.5 LT - 4+827.5 LT New 900mm x 9.5m Option Pipe w/Reinforced Concrete Headwall at Inlet
- 10 4+800.0 RT - 4+800.0 RT New 450mm x 7.0m Option Pipe w/PRCDI w/Type D Grate
- 11 4+825.5 RT - 4+825.0 RT New 450mm x 4.2m Option Pipe w/PRCDI w/Type E Grate
- 12 4+825.0 RT - 4+827.5 LT New 450mm x 15.0m Option Pipe w/PRCCB w/Type D Grate
- 13 4+816.0 LT - 4+818.0 LT - New 450mm x 3.5m Option Pipe w/PRCDI w/Type E Grate
- 14 4+818.0 LT - 4+827.5 LT - New 600mm x 9.4m Option Pipe w/PRCDI w/Type E Grate

- 15 14+092.0 LT - 14+076.5 RT New 750mm x 29.0m Option Pipe w/PRCCB w/Type A Grate
- 17 100+078.5 RT - 14+092.0 LT New 450mm x 29.0m Option Pipe w/PRCDI w/Type D Grate

UNDERDRAIN

- A 4+700.0 RT - 4+800.0 RT New 150mm x 94.0m Underdrain
- B 4+865.0 LT - 4+900.0 LT New 150mm x 35.0m Underdrain
- C 4+800.0 RT - 4+826.0 RT New 150mm x 23.0m Underdrain w/Flushing Basin @ 4+799.0 RT

| DATUM      |              |
|------------|--------------|
| VERTICAL   | NAVD 88      |
| HORIZONTAL | NAD 83(1992) |

MATCH LINE TO ROW SHEET 28 OF 37

MATCH LINE 14+094

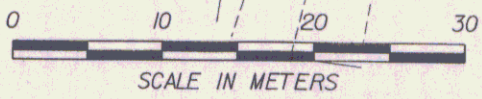
DRAINAGE NOTES - EXISTING

- 31 4+835.0 RT - 610mm CGMP - Remove
- 32 4+835.0 RT - 610mm CGMP - Remove existing DI and plug pipe w/concrete
- 33 100+084.0 RT - 450mm CGMP - Retain
- 34 100+078.0 CL - 380mm CGMP - Plug ends

STORMWATER TREATMENT PRACTICE

- DS = DRY SWALE TREATMENT  
GC = GRASS CHANNEL TREATMENT  
GC1B - 14+045 - 14+091 LT  
GC1C - 14+040 - 14+071 RT  
DS1D - 4+800 - 4+825 RT

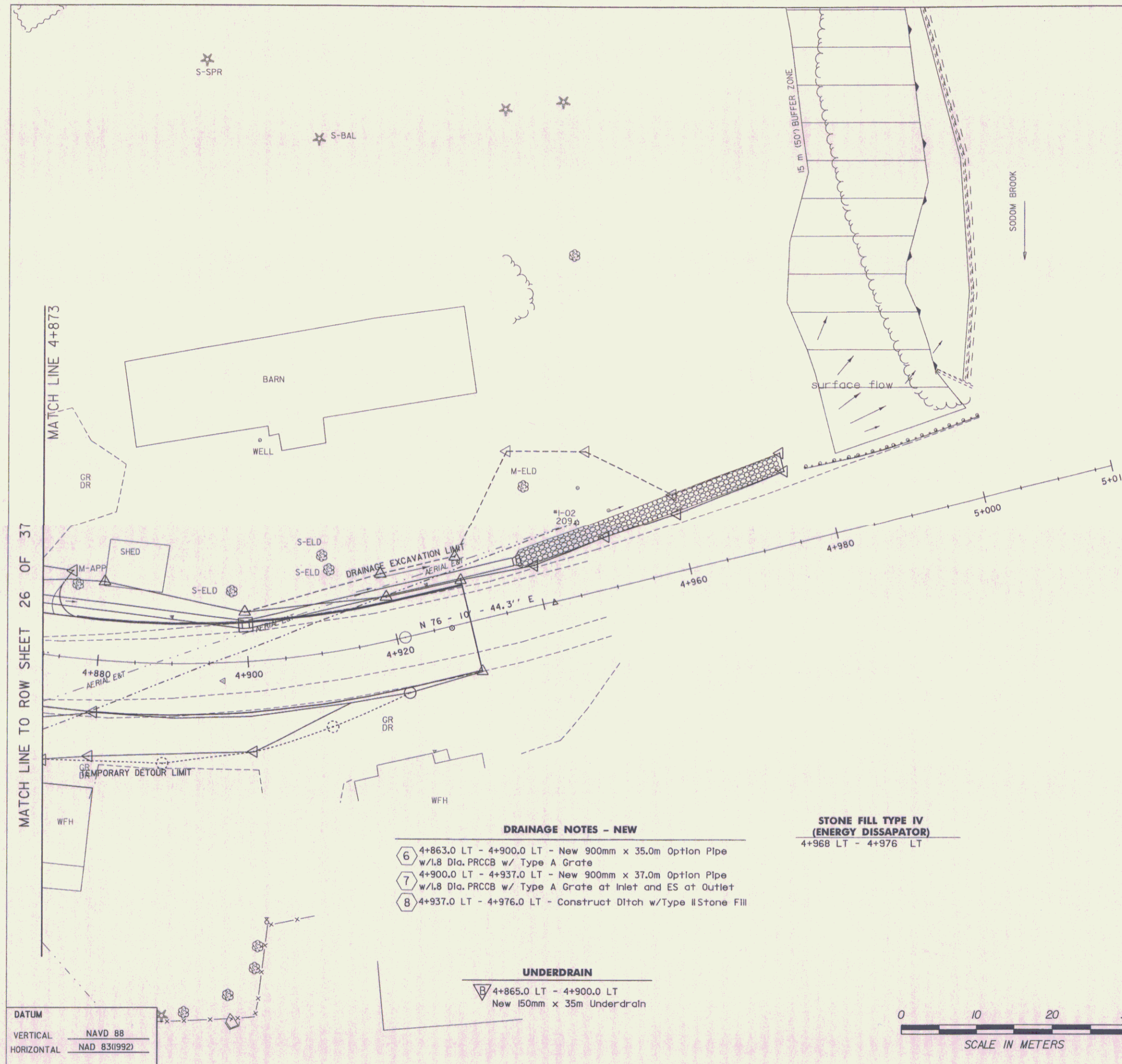
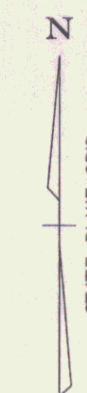
| LEGEND |                |
|--------|----------------|
|        | DRAINAGE SWALE |
|        | SIDEWALK       |



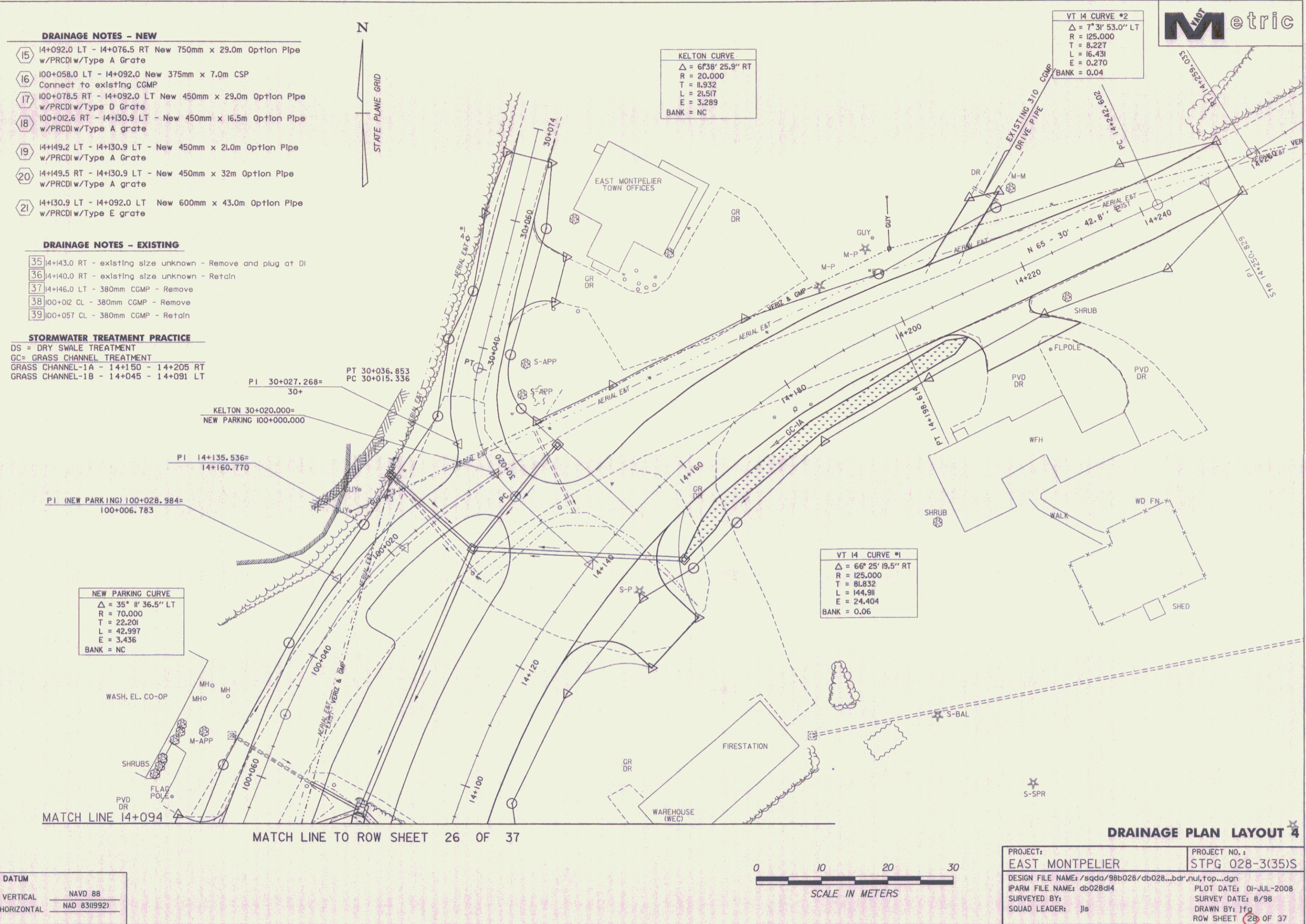
DRAINAGE PLAN LAYOUT 2

|                   |                                        |              |                 |
|-------------------|----------------------------------------|--------------|-----------------|
| PROJECT:          | EAST MONTPELIER                        | PROJECT NO.: | STPG 028-3(35)S |
| DESIGN FILE NAME: | /sqda/98b028/db028...bdr,nul,top...dgn |              |                 |
| IPARM FILE NAME:  | db028d12                               |              |                 |
| SURVEYED BY:      | Jfs                                    | PLOT DATE:   | 01-JUL-2008     |
| SQUAD LEADER:     | Jfs                                    | SURVEY DATE: | 8/98            |
|                   |                                        | DRAWN BY:    | Jfs             |
|                   |                                        | ROW SHEET    | 26 OF 37        |









VT 14 CURVE #2  
Δ = 7°31' 53.0" LT  
R = 125.000  
T = 8.227  
L = 16.431  
E = 0.270  
BANK = 0.04

KELTON CURVE  
Δ = 6°38' 25.9" RT  
R = 20.000  
T = 11.932  
L = 21.517  
E = 3.289  
BANK = NC

VT 14 CURVE #1  
Δ = 6°25' 19.5" RT  
R = 125.000  
T = 81.832  
L = 144.911  
E = 24.404  
BANK = 0.06

NEW PARKING CURVE  
Δ = 35° 11' 36.5" LT  
R = 70.000  
T = 22.201  
L = 42.997  
E = 3.436  
BANK = NC

DATUM  
VERTICAL NAVD 88  
HORIZONTAL NAD 83(1992)

0 10 20 30  
SCALE IN METERS

### DRAINAGE PLAN LAYOUT 4

|                                                          |                                 |
|----------------------------------------------------------|---------------------------------|
| PROJECT:<br>EAST MONTPELIER                              | PROJECT NO.:<br>STPG 028-3(35)S |
| DESIGN FILE NAME: /sqda/98b028/db028...bdr,nul,top...dgn | PLOT DATE: 01-JUL-2008          |
| IPARM FILE NAME: db028d14                                | SURVEY DATE: 8/98               |
| SURVEYED BY:                                             | DRAWN BY: Jfg                   |
| SQUAD LEADER: Jls                                        | ROW SHEET 28 OF 37              |



# RIGHT - OF - WAY DETAIL SHEET

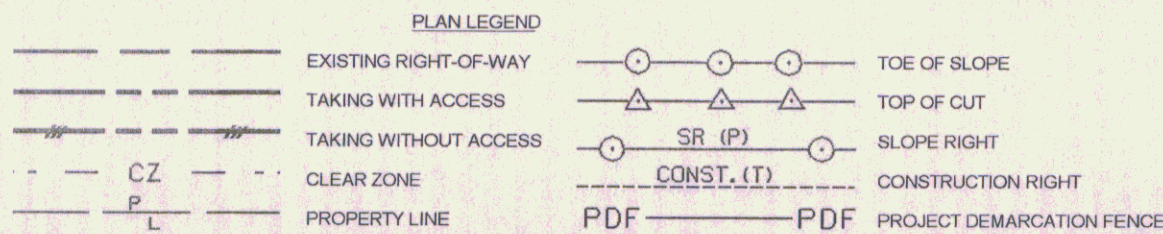


TABLE OF PROPERTY ACQUISITION

| PARCEL NO. | PROPERTY OWNER                                                                                                                        | SHEET NO. | BEGINNING STATION                                                                                                                                                        | ENDING STATION                                                               | TAKE      | REMAINDER | RIGHT                                                                                                                               | AREA ±                                               | TITLE | DATE       | TOWN / CITY     | RECORDING DATA |         | REMARKS                                                                                                                                                                            |
|------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------|-----------|-------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------|------------|-----------------|----------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                                                                                                                       |           |                                                                                                                                                                          |                                                                              | AREA ±    | AREA ±    |                                                                                                                                     |                                                      |       |            |                 | BOOK           | PAGE    |                                                                                                                                                                                    |
| 1          | LAMB, DURWARD D. & LINDA L.                                                                                                           | 34        | 4+646.45 RT.<br>4+672.00 RT.                                                                                                                                             | 4+676.03 RT.                                                                 | 220.1 SM  |           | ALL R.T. & I.                                                                                                                       |                                                      | WD    | 4/3/2009   | EAST MONTPELIER | 106            | 037-38  | US RTE 2 & VT 14; 2369 SF± (HWY. EASE.)<br>DRIVE GRAVEL 6.1M (20') MM 0291                                                                                                         |
| 2          | BIRON, JEFFREY R. & ROBIN D. & GLORIA A.<br>BIRON, TRUSTEE OF THE GLORIA A.<br>BIRON LIVING TRUST -LESSORS<br>J.R. BIRON, INC.-LESSEE | 34        | 4+646.45 LT.<br>4+676.00 LT.                                                                                                                                             | 4+692.50 LT.                                                                 | 347.2 SM  |           | ALL R.T. & I.                                                                                                                       |                                                      |       |            |                 |                |         | US RTE 2 & VT 14; 3737 SF± (HWY. EASE.)<br>DRIVE 32.0M (105') PAVED MM 0291                                                                                                        |
|            |                                                                                                                                       |           | 4+647.22 LT.                                                                                                                                                             | 4+656.45 LT.                                                                 |           |           |                                                                                                                                     |                                                      |       |            |                 |                |         | EXCEPT & RESERVE, GAS PUMP ISLAND                                                                                                                                                  |
| 3          | MOREY, ROBERT W. & GROVER-MOREY,<br>DEBRA                                                                                             | 34        | 4+676.03 RT.<br>4+676.03 RT.<br>4+687.48 RT.<br>4+695.00 RT.                                                                                                             | 4+705.27 RT.<br>4+682.71 RT.<br>4+696.49 RT.                                 | 219.5 SM± |           | ALL R.T. & I.<br>UTILITY EASE.<br>SLOPE<br>REMOVE                                                                                   |                                                      | WD    | 10/16/2009 | EAST MONTPELIER | 108            | 511-512 | US RTE 2 & VT 14; 2363 SF± (HWY. EASE.)<br>87 SF±<br>47 SF±<br>FENCE                                                                                                               |
|            |                                                                                                                                       |           | 4+699.00 RT.<br>4+679.56 RT.                                                                                                                                             | 4+681.10 RT.                                                                 |           |           | DRIVE<br>INSTALL & MAINT.                                                                                                           | (T)<br>(P)                                           |       |            |                 |                |         | 5.8M(19') GRAVEL MM0293<br>GUY WIRE & ANCHOR                                                                                                                                       |
| 4          | BIRON, JEFFREY R. & ROBIN D.                                                                                                          | 34,35     | 4+692.50 RT.<br>4+702.00 LT.<br>4+719.83 LT.<br>4+714.50 LT.<br>4+728.11 LT.<br>TH25 40+023.00 LT.<br>TH25 40+030.00 LT.<br>4+729.02 LT.<br>4+729.44 LT.<br>4+714.50 LT. | 4+736.63 RT.<br>4+730.37 LT.<br>4+717.00 LT.<br>4+729.88 LT.                 | 0.08HA    |           | ALL R.T. & I.<br>DRIVE<br>UTILITY EASE.<br>ALL R.T. & I.<br>REMOVE<br>DRIVE<br>INSTALL & MAINT.<br>ALL R.T. & I.<br>SLOPE<br>REMOVE | (T)<br>(P)<br>(T)<br>(T)<br>(T)<br>(P)<br>(T)<br>(T) |       |            |                 |                |         | US RT 2&VT 14&TH25 0.15A±(HWY. EASE.)<br>10.5M(34') GRAVEL MM 0293<br>235 SF±<br>PUMP ISLAND<br>SIGN BASE<br>10.5M(33') GRAVEL<br>DROP INLET<br>SIGN BASE<br>29 SF±<br>PUMP ISLAND |
| 5A         | GLORIA A. BIRON, TRUSTEE OF THE<br>GLORIA A. BIRON LIVING TRUST                                                                       | 34,35     | 4+705.13 RT.<br>4+723.00 RT.<br>4+764.27 RT.<br>4+735.92 RT.                                                                                                             | 4+777.69 RT.<br>4+795.00 RT.<br>4+777.69 RT.                                 | 125 SM    |           | DRIVE<br>SLOPE<br>EASE                                                                                                              | (T)<br>(T)<br>(P)                                    |       |            |                 |                |         | 1345 SF±<br>11.5M(38') GRAVEL MM 0294<br>319 SF±<br>SIGHT RESTRICTION AREA(223 SF±)                                                                                                |
| 5B         |                                                                                                                                       | 34,35     | 4+705.17 RT.                                                                                                                                                             | 4+795.61 RT.                                                                 | 0.07HA    |           | ALL R.T. & I.                                                                                                                       |                                                      |       |            |                 |                |         | US RTE. 2 & VT. 14 0.17A± (HWY. EASE.)                                                                                                                                             |
| 6A         | STATE OF VERMONT                                                                                                                      | 34,35     | 4+795.00 RT.                                                                                                                                                             | 4+828.05 RT.                                                                 | 0.40HA    | 0         |                                                                                                                                     |                                                      | WD    | 8/9/2007   | East Montpelier | 99             | 127-132 | TOTAL TAKE 99A±<br>FORMERLY-LAPERLE, MAURICE A. &<br>LUCILLE M., LIFE ESTATE;<br>LAPERLE, ALAN<br>LAPERLE, GARY<br>BROWN, JODI-LYNN<br>LAPERLE, MARK                               |
| 6B         |                                                                                                                                       | 35        | 4+795.00 RT.                                                                                                                                                             | 4+828.05 RT.                                                                 | 226 SM    |           | ALL R.T. & I.                                                                                                                       |                                                      |       |            |                 |                |         | US RTE 2 2433 SF±                                                                                                                                                                  |
| 6C         |                                                                                                                                       | 34,35     | 4+644.83 RT.                                                                                                                                                             | 4+828.05 RT.                                                                 | 0.20HA    |           | ALL R.T. & I.                                                                                                                       |                                                      |       |            |                 |                |         | FORMERLY LAPERLE (0.50A±)                                                                                                                                                          |
| 7          | HASLAND, LLC                                                                                                                          | 35        | 4+828.05 RT.<br>4+833.62 RT.<br>4+838.96 LT.<br>4+863.00 RT.<br>4+840.16 RT.<br>4+848.20 RT.<br>4+863.00 RT.                                                             | 4+868.43 RT.<br>4+838.26 RT.<br>4+840.16 RT.<br>4+868.62 RT.<br>4+868.43 RT. | 294.5 SM  |           | ALL R.T. & I.<br>EASE<br>ALL R.T. & I.<br>DRIVE<br>UTILITY EASE.<br>DETOUR<br>ACCESS                                                | (T)<br>(T)<br>(P)<br>(T)<br>(T)<br>(T)               | WD    | 5/11/2009  | East Montpelier | 106            | 354-356 | US RTE 2 3170 SF± (HWY. EASE.)<br>REMOVE DI & PLUG 57 SF±<br>WATER LINE CROSSING US RTE 2<br>7.3M(24') GRAVEL MM0303<br>647 SF±<br>285 SF±<br>INGRESS & EGRESS TO DETOUR           |

TABLE OF REVISIONS

| REVISION NO. | SHEET NO. | DESCRIPTION                                                                                                                                                                                           | DATE       |
|--------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 1            | 10,15,16  | PARCEL NO. 8, LAPERLE. CHANGE NAME TO LAPERLE, MAURICE A & LUCILLE M., LIFE ESTATE.<br>LAPERLE, ALAN, LAPERLE, GARY, BROWN, JODI-LYNN.<br>LAPERLE, MARK PER C.O. 9480<br>MADE BY: JAB APPROVED BY: HP | 10/19/2006 |
| 2            | 21,32,37  | PARCEL NO. 17, LAPERLE. REMOVE THE TWO TREES NEAR THE SOUTHWEST BOUNDARY FROM THE PLANS. THE OWNERS DO NOT WANT TREES PLANTED THERE.<br>MADE BY: MT APPROVED BY: HP                                   | 6/11/2008  |
| 3            | 29        | PARCEL NO. 5, BIRON. CORRECTED CALCULATION OF SM AND SF FOR EASE (P)<br>MADE BY: MT APPROVED BY: HP                                                                                                   | 1/28/2009  |
| 4            | 29,34,35  | PARCEL NO. 6 STATE OF VERMONT ACQUIRED FROM LAPERLE, MAURICE A & LUCILLE M., LIFE ESTATE. PER C.O. 9568<br>MADE BY: MR APPROVED BY: HP                                                                | 9/15/2009  |



(P) - PERMANENT  
(T) - TEMPORARY  
DR. - DRAINAGE RIGHT  
DIT. - DITCHING RIGHT  
CH. - CHANNEL RIGHT  
DRIVE - DRIVE RIGHT  
CUL. - CULVERT RIGHT  
C&T - CLEARING & TRIMMING RIGHT  
SR - SLOPE RIGHT  
UE - UTILITY EASEMENT

APPROVED: HARRY PETROV'S DATE: 07-07-08  
CHIEF, PLANS & TITLES

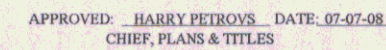
PROJECT NAME: EAST MONTPELIER  
PROJECT NUMBER: STPG 028-3(35)S

FILE NAME: r08b028.xls  
PROJECT LEADER: J. SCHULTZ  
DESIGNED BY: J. GRUCHACZ  
R.O.W. SHEET 29 OF 37

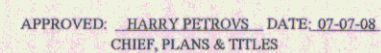
PLOT DATE:  
DRAWN BY: MT  
CHECKED BY: FH  
SHEET 15 OF 141



12/29/2009

30



12/29/200931



9/24/2009

APPROVED: HARRY PETROVS DATE: 07-07-08  
CHIEF, PLANS & TTLES

32



|                                        |  |                              |  |
|----------------------------------------|--|------------------------------|--|
| PROJECT NAME: <b>EAST MONTPELIER</b>   |  | PLOT DATE:                   |  |
| PROJECT NUMBER: <b>STPG 028-3(35)S</b> |  | DRAWN BY: <b>MR</b>          |  |
| FILE NAME: <b>rb028d.xls</b>           |  | CHECKED BY: <b>FM</b>        |  |
| PROJECT LEADER: <b>NYQUIST</b>         |  | SHEET <b>33</b> OF <b>37</b> |  |
| DESIGNED BY: <b>JFG</b>                |  |                              |  |
| R.O.W. DETAIL SHEET #5                 |  |                              |  |



