VTRANS STANDARD DRAWINGS

B-5M	SLOPE GRADING, EMBANKMENTS, MUCK	1/3/00
B-71M	RESIDENTIAL AND COMMERCIAL DRIVES	3/1/01
C-1M	CURBS, BITUMINOUS CONCRETE SIDEWALKS GRANITE SLOPE EDGING, VERTICAL GRANITE CURB PRECAST REINFORCED CONCRETE CURB CAST IN PLACE CONCRETE CURB BITUMINOUS CONCRETE CURB, TREATED TIMBER CURB	1/3/00
C-28M	CEMENT CONCRETE SIDEWALK, CONCRETE CURB	1/3/00
C-3A	SIDEWALK RAMPS	2/2/04
D-1M	PRECAST REINFORCED CONCRETE PIPE DROP INLET WITH CAST IRON GRATE PRECAST REINFORCED CONCRETE PIPE DROP INLET WITH CONCRETE COVER	6/13/97
D-2M	C.R.M. HEADWALLS & RETAINING WALL RIPRAP LIGHT TYPE SLOPE HEADWALL REINFORCED CONCRETE HEADWALL UNDERDRAIN & CARRIER PIPE CONSTRUCTION DETAILS	6/13/97
D-8M	REINFORCED CONCRETE DROP INLET WITH PRECAST COVER & GRATE (BOTTOM SECTION)	1/3/00
D-9M	REINFORCED CONCRETE DROP INLET TOPS VERTICAL CURB & THROAT ADAPTER	6/13/97
D-13M	CONCRETE CATCH BASIN WITH CAST IRON GRATE & CONCRETE MANHOLE WITH CAST IRON GRATE	1/3/00
D-15M	PRECAST REINF. CONC. CATCH BASIN W/ CAST IRON GRATE PRECAST REINF. CONC. MANHOLW W/ CAST IRON COVER CAST IRON GRATE WITH FRAME, TYPE D CAST IRON GRATE WITH FRAME, TYPE E	6/13/97
E-100M	CONSTRUCTION APPROACH SIGNS	6/13/97
E-100AM	SIDE ROAD CONSTRUCTION - APPROACH SIGNS	2/02/98
E-106M	TRAFFIC CONTROL - MISCELLANEOUS DETAILS	6/13/97
E-107M	DELINEATION, BARRICADES AND DETOURS FOR U-TURNS ON DIVIDED HIGHWAY	6/13/97
E-107AM	BREAKAWAY BARRICADE DETAILS	6/13/97
E-121M	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	6/13/97
E-163M	TUBULAR STEEL SIGN POST	6/13/97
E-173M	PULL BOXES AND JUNCTION BOXES	6/13/97
E-175M	POWER DROP STANCHIONS	6/13/97
E-180AM	STREET LIGHTING DETAILS	6/13/97
E-180BM	STREET LIGHTING DETAILS	6/13/97
E-191M	PAVEMENT MARKING DETAILS	2/1/99
E-193M	PAVEMENT MARKING DETAILS	6/13/97

PROPOSED IMPROVEMENT

WHETSTONE BROOK PATHWAY PROJECT

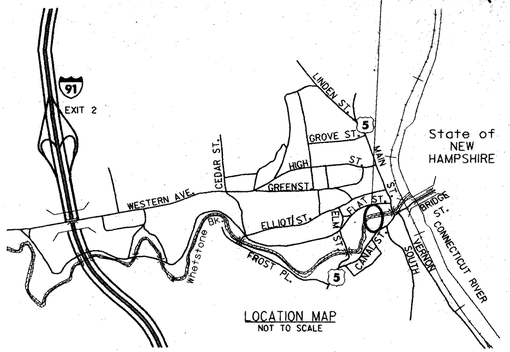
TOWN OF BRATTLEBORO
WINDHAM COUNTY
STP BIKE (27) S

PROJECT LOCATION: BEGINNING IN THE PRESTON MUNICIPAL PARKING LOT AT THE INTERSECTION WITH THE FLAT STREET SIDEWALK AND EXTENDING 31.400 METERS THROUGH THE PARKING LOT, THEN CROSSING A NEW BRIDGE OVER WHETSTONE BROOK TO THE BROOKSIDE PLAZA PARKING LOT AND CONTINUING APPROXIMATELY 87.893 METERS TO THE MAIN STREET (U.S. ROUTE 5) SIDEWALK.

PROJECT DESCRIPTION: WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES CONSTRUCTION OF A NEW PATHWAY AND BRIDGE, INCLUDING THE INSTALLATION OF NEW TREE PLANTERS, FENCE, LIGHTING, LANDSCAPING AND OTHER INCIDENTAL ITEMS.

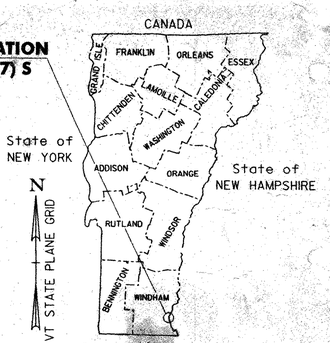
LENGTH OF PATHWAY = 119.293 METERS (0.119 KM)
LENGTH OF BRIDGE = 27.432 METERS (0.027 KM)
LENGTH OF PROJECT = 146.725 METERS (0.147 KM)

Record Drawings



LOCATION MAP
NOT TO SCALE

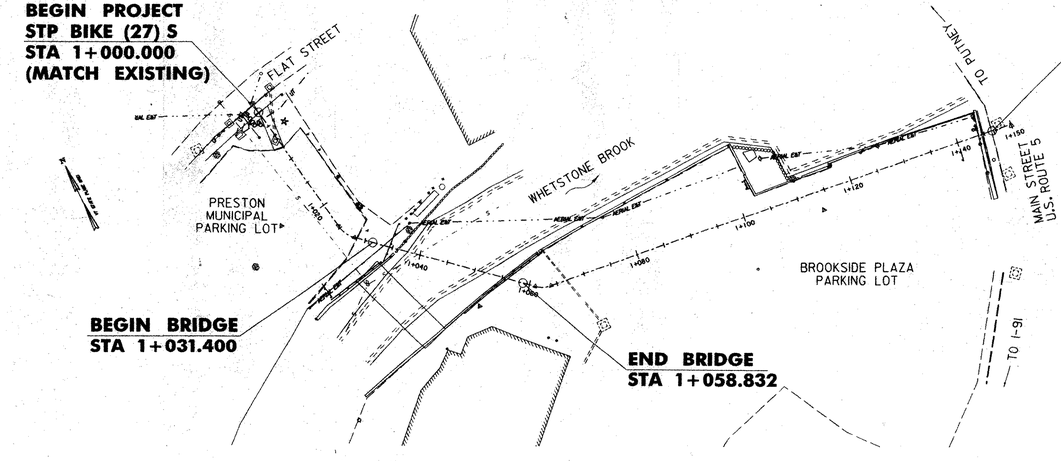
PROJECT LOCATION
STP BIKE (27) S



INDEX OF SHEETS

RECORD DRAWINGS FOR PATHWAY

BID PLANS
FEBRUARY 2004



BEGIN PROJECT
STP BIKE (27) S
STA 1+000.000
(MATCH EXISTING)

END PROJECT
STP BIKE (27) S
STA 1+146.725
(MATCH EXISTING)

BEGIN BRIDGE
STA 1+031.400

END BRIDGE
STA 1+058.832

CONVENTIONAL SIGNS

COUNTY LINE
TOWN LINE
LIMITS OF ACCESS
POINT OF ACCESS
FENCE LINE
STONE WALL
TRAVELED WAY
GUARD RAIL
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

PLANS PREPARED BY:

DuBois & King engineering planning surveying development

DATUM
VERTICAL NVD 88
HORIZONTAL NAD 83

10 0 10 20 35 40
SCALE IN METERS
SCALE: 1:500

FUNDING ASSISTANCE FOR THIS PROJECT IS BEING PROVIDED BY VTRANS AND FHWA

PLOTTED: 03/11/2004

STATE OF VERMONT STANLEY W. TUCKER No. 5408 REGISTERED PROFESSIONAL ENGINEER

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE BRATTLEBORO TOWN MANAGER. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2001, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JANUARY 4, 2001 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

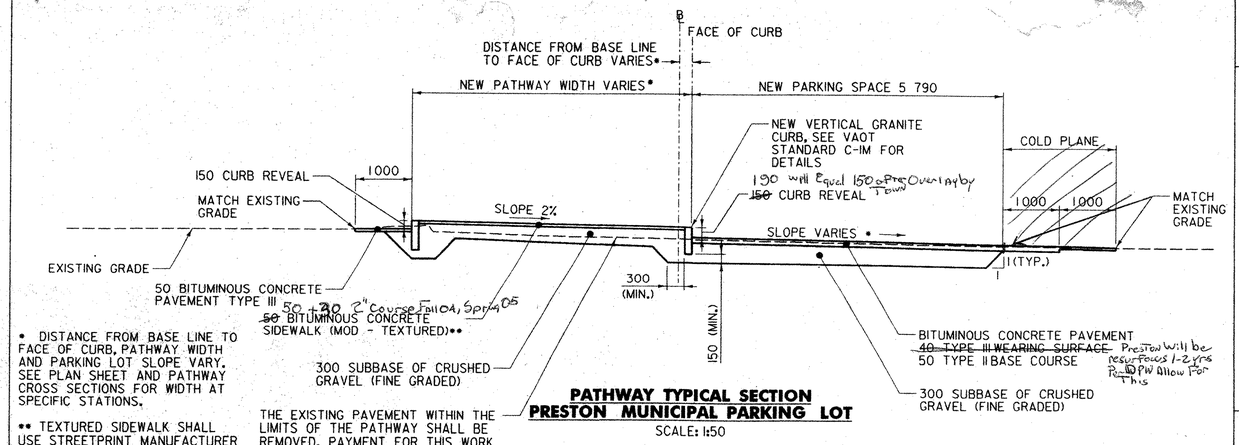
Metric

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

APPROVED _____ DATE _____
BRATTLEBORO TOWN MANAGER

PROJECT TOWN OF BRATTLEBORO
STP BIKE (27) S
SHEET 1 OF 30

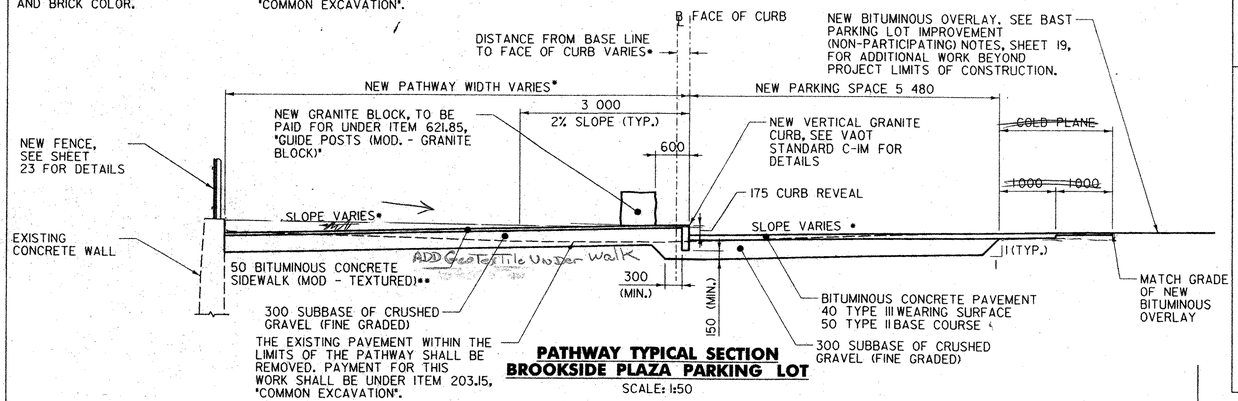
11439



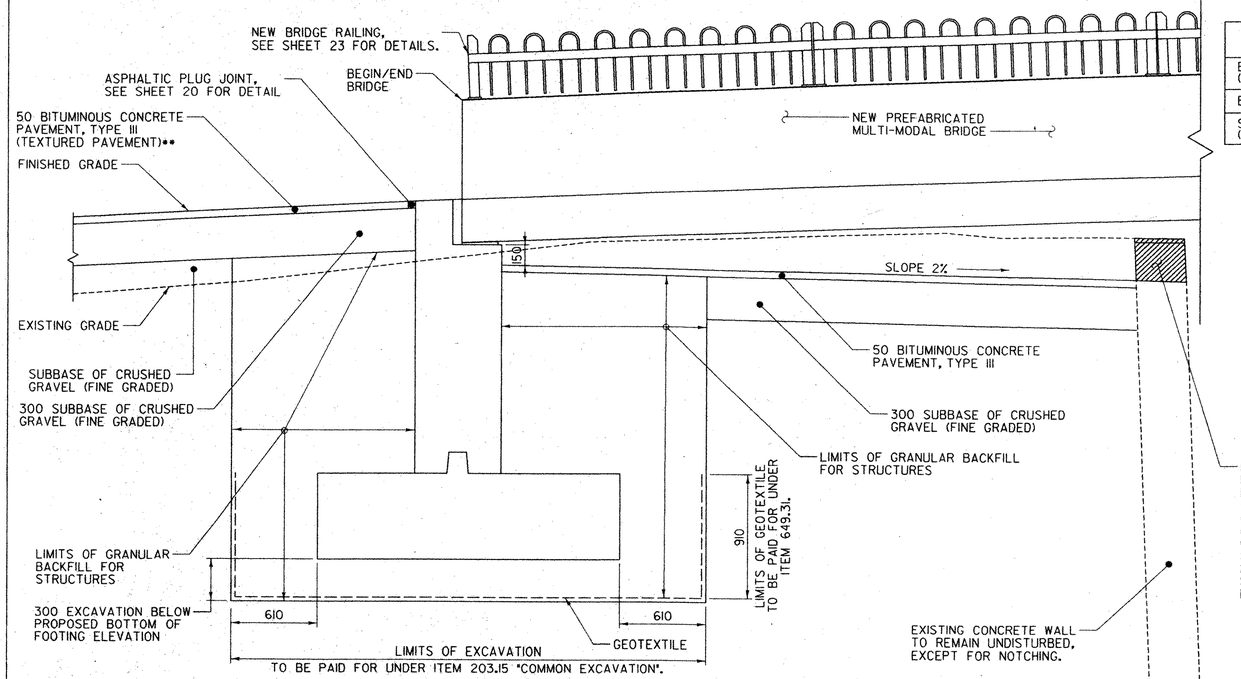
• DISTANCE FROM BASE LINE TO FACE OF CURB, PATHWAY WIDTH AND PARKING LOT SLOPE VARY, SEE PLAN SHEET AND PATHWAY CROSS SECTIONS FOR WIDTH AT SPECIFIC STATIONS.

•• TEXTURED SIDEWALK SHALL USE STREETPRINT MANUFACTURER WITH THE OFFSET BRICK STYLE AND BRICK COLOR.

PATHWAY TYPICAL SECTION
PRESTON MUNICIPAL PARKING LOT
SCALE: 1:50

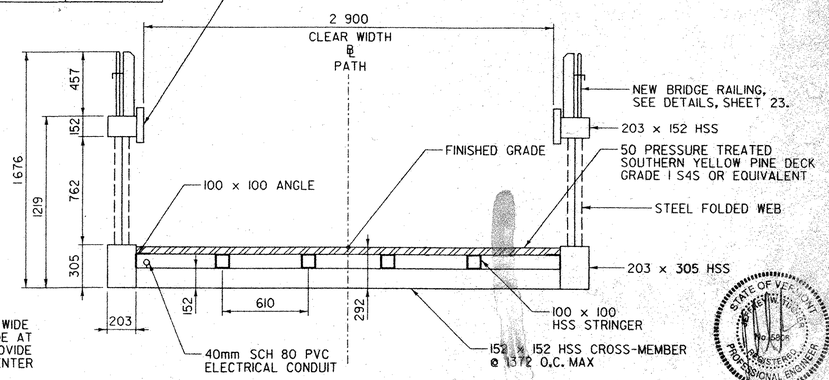


PATHWAY TYPICAL SECTION
BROOKSIDE PLAZA PARKING LOT
SCALE: 1:50



ABUTMENT TYPICAL SECTION
SCALE: 1:20

NOTE:
ALL DIMENSIONS SHOWN ON THIS SHEET ARE IN MILLIMETERS.



BRIDGE TYPICAL SECTION
SCALE: 1:20

NOTE:
HSS = HOLLOW STEEL SECTION

MATERIALS TOLERANCE TABLE

MATERIAL ITEM	TOLERANCE
BITUMINOUS CONCRETE SIDEWALK (MOD. - TEXTURED)••	± 3mm
BITUMINOUS CONCRETE PAVEMENT	± 5mm
SUBBASE OF CRUSHED GRAVEL (FINE GRADED)	± 30mm

FINAL HYDRAULICS REPORT

Metric

HYDROLOGIC DATA

DRAINAGE AREA= 72.5 SQUARE KILOMETERS
CHARACTER OF TERRAIN: URBAN
CHARACTER & TYPE OF STREAM: STEEP GRADIENT, CHANNEL DEFINED BY RETAINING WALLS
NATURE OF STREAMBED: VARIABLE SLOPE

Q2.33= - Q50= 96
Q10= 181 Q100= 224
Q25= - Q500= 348

DATE OF FLOOD OF RECORD: JULY 1, 1973
WATER SURFACE ELEV.: UNKNOWN ESTIMATED DISCHARGE: UNKNOWN
NATURAL STREAM VELOCITY @ Q 25 =
ICE CONDITIONS: MODERATE DEBRIS: LIGHT
DOES THE STREAM REACH MAXIMUM HIGHWATER ELEVATION RAPIDLY? YES
IS ORDINARY RISE RAPID? YES
IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? YES
IF YES, DESCRIBE. STAGE AFFECTED BY FALLS APPROXIMATELY 200 METERS DOWNSTREAM

WATERSHED STORAGE ___ HEADWATERS - UNIFORM THROUGHOUT WATERSHED -
IMMEDIATELY ABOVE SITE -

PROPOSED STRUCTURE

STRUCTURE TYPE: NEW SUPERSTRUCTURE TO BE PLACED BEHIND EXISTING RETAINING WALLS

CLEAR SPAN (NORMAL TO STREAM): 18.887 m
VERTICAL CLEARANCE ABOVE STREAMBED:
WATERWAY OF FULL OPENING:

WATER SURFACE ELEV. @ Q2.33= - VELOCITY= -
Q10= 76 m =
Q25= - m =
Q50= 77 m =
Q100= 77 m =

IS THE ROADWAY OVERTOPPED BELOW THE Q100? NO FREQUENCY: N/A
RELIEF ELEVATION: DISCHARGE OVER ROAD @ Q100:

AVERAGE LOW ELEVATION OF SUPERSTRUCTURE:
VERTICAL CLEARANCE @ Q25
SCOUR:
REQUIRED CHANNEL PROTECTION:

ADDITIONAL COMMENTS

HYDROLOGIC AND HYDRAULIC DATA WAS OBTAINED FROM THE FLOOD INSURANCE STUDY, TOWN OF BRATTLEBORO, VERMONT, WINDHAM COUNTY, DECEMBER 4, 1985 BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (COMMUNITY NUMBER - 500126).

PERMIT INFORMATION

AVERAGE DAILY FLOW:
ORDINARY LOW WATER: DEPTH:
ORDINARY HIGH WATER: DEPTH:

DESIGN CRITERIA:
1. DESIGN LIVE LOAD AASHTO 4 KPa, M9 VEHICLE (85 kN PEDESTRIAN LIVE LOAD, H10 20,000 lbs VEHICLE LIVE LOAD)
2. DESIGN SPAN 27.242 METERS - CENTERLINE OF BEARING
3. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL 190 KPa ON LEDGE N/A
4. ALLOWABLE LOAD FOR PILING N/A TYPE - ESTIMATED LENGTH -
5. STRUCTURAL STEEL AASHTO M 270M/M 270 GRADE 345
6. REINFORCING STEEL GRADE 420
7. CONCRETE, HIGH PERFORMANCE CLASS B (MOD. - FLY ASH) f'_c 25 MPa

TRAFFIC MAINTENANCE:
1. IS TRAFFIC TO BE MAINTAINED? YES IF YES, ON EXISTING STRUCTURE NO OR ON TEMPORARY BRIDGE NO
WITHIN EXISTING PARKING LOTS
2. TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY N/A TRAFFIC CONTROL SIGNALS REQUIRED N/A
MINIMUM CLEAR SPAN (NORMAL TO STREAM): N/A VERTICAL CLEARANCE ABOVE STREAMBED: N/A
WATERWAY OF FULL OPENING: N/A
ARE SIDEWALKS REQUIRED? N/A IF SO, ON WHAT SIDE? N/A
STRUCTURE TYPE: N/A

STATE OF VERMONT — JOHN S. BOYD — No. 6806 — REGISTERED PROFESSIONAL ENGINEER

PLOTTED: 03/11/2004

DuBois & King inc.
engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
PRELIMINARY INFORMATION SHEET

DRAWN BY	DATE
SJB	FEB. 2004
CHECKED BY	PROJ. NO.
JVB	R16544
PROJ. ENG.	DRAW. NO.
SDH	11430

SHEET 2 OF 30

Metric

QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	PARTICIPATING	NON-PARTICIPATING	TOTAL
201.10	CLEARING AND GRUBBING	LS	1		1
203.15	COMMON EXCAVATION	CM	720	170	890
203.16	SOLID ROCK EXCAVATION	CM	30		30
203.30	EARTH BORROW	CM	70	50	120
203.31	SAND BORROW	CM	60	35	95
204.30	GRANULAR BACKFILL FOR STRUCTURE	CM	180		180
210.10	COLD PLANING - BITUMINOUS PAVEMENT	SM	930		930
301.26	SUBBASE OF CRUSHED GRAVEL (FINE GRADED)	CM	410	30	440
404.65	EMULSIFIED ASPHALT	KG	165	220	385
406.25	BITUMINOUS CONCRETE PAVEMENT	MTON	310	250	560
501.34	CONCRETE, HIGH PERFORMANCE CLASS B	CM	50	2	52
507.15	REINFORCING STEEL	KG	4500		4500
507.16	DRILLING AND GROUTING DOWELS	M	15		15
514.10	WATER REPELLENT	L	15		15
516.10	BRIDGE EXPANSION JOINT (ASPHALTIC PLUG TYPE)	EA	2		2
526.50	RETAINING WALL (MOD. - PREFABRICATED MASONRY BLOCK WALL)	M	10		10
545.20	PREFABRICATED MULTI-MODAL BRIDGE	LS	1		1
601.0805	300mm RCP CLASS III	M	30		30
604.20	PRECAST REINFORCED CONCRETE CATCH BASIN W/ CAST IRON GRATE	EA	1		1
604.25	PRECAST REINFORCED CONCRETE PIPE DROP INLET W/ CAST IRON GRATE	EA	1		1
604.40	CHANGING ELEVATION OFDROP INLETS, CATCH BASINS OR MANHOLES	EA	1		1
604.40	CHANGING ELEVATION OFDROP INLETS, CATCH BASINS OR MANHOLES	EA	1		1
	(MOD. - VAULT)				
608.25	ALL PURPOSE EXCAVATION RENTAL, TYPE I	HR	80		80
608.31	POWER BROOM RENTAL, TYPE II	HR	80		80
608.37	TRUCK RENTAL	HR	80		80
609.10	DUST CONTROL WITH WATER	CM	10		10
616.21	VERTICAL GRANITE CURB	M	220		220
616.21	VERTICAL GRANITE CURB (TREE PLANTER)	M	60		60
618.10	PORTLAND CEMENT CONCRETE SIDEWALK, 125mm	SM	15		15
618.11	PORTLAND CEMENT CONCRETE SIDEWALK, 200mm	SM	30		30
618.15	BITUMINOUS CONCRETE SIDEWALK (MOD - TEXTURED) (PG 58-28)	MTON	130		130
618.30	DETECTABLE WARNING SURFACE	SM	10		10
620.55	REMOVAL OF EXISTING FENCING	M	120		120
620.80	MISCELLANEOUS FENCE (MOD. - PREFAB. STEEL RAILING)	M	130		130
621.80	REMOVAL AND DISPOSAL OF GUARD RAIL	M	25		25
621.85	GUIDE POSTS (MOD. - BOLLARDS)	EA	2		2
621.85	GUIDE POSTS (MOD. - GRANITE BLOCKS)	EA	16		16
624.41	REPLACEMENT OF EXISTING METER SOCKET	EA	2		2
630.15	FLAGGERS	HR	100		100
631.16	TESTING EQUIPMENT - CONCRETE	LS	0.5	0.5	1
631.17	TESTING EQUIPMENT - BITUMINOUS	LS	0.5	0.5	1
635.10	MOBILIZATION	LS	0.5	0.5	1
641.10	TRAFFIC CONTROL	LS	1		1
646.40	DURABLE 100mm WHITE LINE	M	220	900	1120
646.41	DURABLE 100mm YELLOW LINE	M	20		20
646.46	DURABLE 600 mm STOP BAR	M	10		10
646.50	DURABLE LETTER OR SYMBOL	EA	4	5	9
646.60	TEMPORARY 100mm WHITE LINE	M	220		220
646.61	TEMPORARY 100mm YELLOW LINE	M	20		20
649.31	GEOTEXTILE UNDER STONE FILL	SM	130		130
651.15	SEED	KG	2		2
651.18	FERTILIZER	KG	15		15
651.20	AGRICULTURAL LIMESTONE	MTON	1		1
651.25	HAY MULCH	MTON	1		1
651.27	CEDAR BARK MULCH (COLOR SELECTED BY OWNER)	CM	25		25
651.35	TOPSOIL	CM	90		90
652.10	EROSION & SEDIMENT CONTROL PLAN	LS	1		1
652.20	MONITORING EROSION & SEDIMENT CONTROL PLAN	HR	40		40
652.30	FIELD MAINTENANCE OF EROSION & SEDIMENT CONTROL PLAN	LU	1		1
654.10	EROSION MATTING	SM	1200		1200
656.20	EVERGREEN TREES (TAXUS X M. DESIFORMIS)	EA	1		1
656.30	DECIDUOUS TREES (FREMANII MAPLE)	EA	3		3
656.30	DECIDUOUS TREES (ULMUS PARVAFOLIA "ATHENA")	EA	1		1
656.35	DECIDUOUS SHRUBS (COMPTONIA - SWEETFERN)	EA	25		25
656.35	DECIDUOUS SHRUBS (DEUTZIA GRACILIS "NIKKO")	EA	1		1
656.40	GROUND COVERS AND VINES (DAYLILIES - STELLA D'ORO)	EA	100		100
656.40	GROUND COVERS AND VINES (ORNAMENTAL GRASS)	EA	20		20
656.40	GROUND COVERS AND VINES (TINKERBELL LILACS)	EA	70		70
658.20	REST AREA BENCH	EA	5		5
658.20	REST AREA BENCH (BENCH WITHOUT BACK)	EA	4		4
675.20	TRAFFIC SIGNS, TYPE A	SM	1		1
675.301	FLANGED CHANNEL SIGN POST	M	6		6
675.33	TUBULAR STEEL SIGN POSTS (MOD)	KG	50		50
675.50	REMOVING SIGNS	EA	20		20
675.60	ERECTING SALVAGED SIGNS	EA	16		16
675.61	SETTING SALVAGED POSTS	EA	3		3
678.21	ELECTRICAL CONDUIT	M	190		190
678.23	WIRED CONDUIT	M	200	80	280
679.21	LIGHT POLE BASE	EA	11	4	15
679.25	REMOVE AND RESETTING LIGHT POLE (REMOVE ONLY)	EA	5	2	7
679.28	POWER STANCHION	EA	1		1
679.45	LIGHT POLE	EA	11	4	15
679.50	LUMINAIRE	EA	11	4	15

ALL PARTICIPATING QUANTITIES ARE BEING PAID BY THIS PROJECT. NON-PARTICIPATING QUANTITIES ARE ITEMS INSTALLED/REPLACED OR OTHERWISE CONSTRUCTED DURING THIS PROJECT THAT ARE BEING PAID BY OTHER PROJECTS OR THE TOWN. FOR A DESCRIPTION OF NON-PARTICIPATING WORK, SEE SHEET 13 AND 19, BAST PARKING LOT IMPROVEMENT (NON-PARTICIPATING) NOTES.

STATE OF VERMONT — JEFFREY W. TAYLOR — NO. 5656 — REGISTERED PROFESSIONAL ENGINEER

DuBois & King inc.
engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
QUANTITY SHEET

DRAWN BY	DATE
SJB	FEB. 2004
CHECKED BY	PROJ. NO.
JWT	R16544
PROJ. ENG.	DRAW. NO.
JDA	11431

SHEET 3 OF 30

Metric

BEGIN PROJECT
STP BIKE (27) S
STA 1+000.00
MATCH EXISTING

END PROJECT
STP BIKE (27) S
STA 1+144.789
MATCH EXISTING

N

VT STATE PLANE GRID

FLAT STREET

EXISTING TOWN OWNED RIGHT OF WAY ALONG FLAT STREET

STA 0+999.814 OFFSET LT 5.182

STA 0+999.814 OFFSET LT 9.184

STA. 1+000.694 OFFSET RT 6.803

STA. 1+001.203 OFFSET RT 10.023

STA. 1+003.935 OFFSET RT 0.250

STA. 1+006.218 OFFSET RT 6.803

STA. 1+006.968 OFFSET RT 5.504

STA. 1+020.241 OFFSET RT 0.250

STA. 1+023.306 OFFSET RT 5.559

STA. 1+024.782 OFFSET RT 5.749

STA. 1+027.846 OFFSET RT 2.641

STA. 1+027.919 OFFSET RT 11.900

STA. 1+030.703 OFFSET LT 3.000

STA. 1+034.308 OFFSET RT 3.000

STA. 1+035.273 OFFSET RT 0.894

STA. 1+036.870 OFFSET LT 3.000

STA. 1+037.791 OFFSET LT 3.000

STA. 1+049.302 OFFSET RT 7.814

STA. 1+051.259 OFFSET 23.786 LT

STA. 1+053.013 OFFSET RT 2.776

STA. 1+052.848 OFFSET RT 3.000

STA. 1+063.778 OFFSET RT 4.926

STA. 1+067.335 OFFSET RT 1.193

STA. 1+068.477 OFFSET RT 5.046

STA. 1+068.778 OFFSET RT 3.864

STA. 1+069.252 OFFSET RT 0.088

STA. 1+072.033 OFFSET RT 14.312

STA. 1+073.889 OFFSET RT 9.230

STA. 1+094.124 OFFSET RT 2.643

STA. 1+094.144 OFFSET RT 0.409

STA. 1+101.693 OFFSET 35.896 LT

STA. 1+102.079 OFFSET 32.798 LT

STA. 1+102.319 OFFSET RT 0.514

STA. 1+117.024 OFFSET 34.705 LT

STA. 1+117.762 OFFSET 33.550 LT

STA. 1+117.913 OFFSET 33.613 LT

STA. 1+119.735 OFFSET 24.715 LT

STA. 1+122.791 OFFSET 24.524 LT

STA. 1+124.964 OFFSET LT 4.444

STA. 1+125.055 OFFSET LT 6.882

STA. 1+126.361 OFFSET 17.221 LT

STA. 1+126.684 OFFSET LT 7.451

STA. 1+130.929 OFFSET LT 0.182

STA. 1+131.214 OFFSET RT 34.572

STA. 1+131.999 OFFSET RT 16.778

STA. 1+134.709 OFFSET RT 2.278

STA. 1+136.490 OFFSET LT 0.106

STA. 1+136.491 OFFSET RT 34.610

STA. 1+136.582 OFFSET RT 3.461

STA. 1+136.633 OFFSET RT 5.469

STA. 1+139.464 OFFSET RT 5.290

STA. 1+139.910 OFFSET 21.854 LT

STA. 1+142.300 OFFSET 12.986 LT

STA. 1+143.685 OFFSET LT 7.798

STA. 1+144.209 OFFSET RT 9.738

STA. 1+144.363 OFFSET RT 8.357

STA. 1+144.547 OFFSET LT 4.564

STA. 1+144.714 OFFSET RT 5.062

STA. 1+063.778 OFFSET RT 4.926

STA. 1+066.263 OFFSET RT 5.258

STA. 1+067.010 OFFSET RT 20.633

STA. 1+063.684 OFFSET RT 13.098

STA. 1+063.259 OFFSET RT 15.671

LOT #32 - 52 - 04
TOWN OF BRATTLEBORO
BOOK 176, PAGE 327

LOT #32 - 52 - 08
THE LATCHIS CORPORATION
BOOK 69, PAGE 223

LOT #32 - 52 - 09
WHETSTONE, LTD
BOOK 149, PAGE 562

LOT #32 - 52 - 09
SEE ABOVE

LOT #32 - 52 - 07
BAST INVESTMENT COMPANY LLC
BOOK 263, PAGE 1021

15M WIDE EASEMENT TO CVPS CORP.
BOOK 200, PAGE 530

EDGE OF EXISTING PARKING LOT PAVEMENT

CANAL STREET (U.S. ROUTE 5)

MAIN STREET (U.S. ROUTE 5)

EXISTING TOWN OWNED RIGHT OF WAY ALONG US 5

S 09°07'25" E

S 49°33'49" E

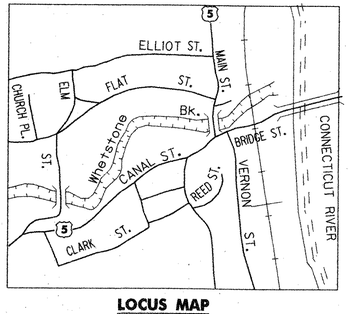
S 83°03'45" E

1A 1B 1C 1D 1E 2A 2B 3A 4A 4B

LEGEND

- EXISTING EDGE OF RIVER
- EXISTING TRAVELED WAY
- EXISTING GUARD RAIL
- CULVERT
- UTILITY POLE
- TELEPHONE POLE
- TREES
- TREE LINE
- OVERHEAD LINES — AERIAL E&T —
- SURVEY POINT
- PROPERTY LINE — P —— L —
- PRESENT RIGHT OF WAY
- PERMANENT EASEMENT — (P) —
- CONSTRUCTION EASEMENT — CONST. (T) —
- FEE SIMPLE — FS. —
- EXISTING DROP INLET
- NEW DROP INLET
- LIMITS OF CONSTRUCTION

DATUM
VERTICAL NGVD 1929
HORIZONTAL NAD 83



LOCUS MAP
NOT TO SCALE

NOTE:
ALL OFFSET DISTANCES RECORDED IN METERS

RIGHT OF WAY PLAN

5 0 5 10 15 20
SCALE IN METERS
SCALE: 1:250

LINES 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 TOWN OF BRATTLEBORO'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

THIS SHEET IS FOR ROW PURPOSES ONLY

TOWN OF BRATTLEBORO, VT

WHETSTONE BROOK PATHWAY PROJECT
RIGHT OF WAY SHEET PLAN

MAIN STREET TO FLAT STREET

STATE OF VERMONT — RICHARD W. BELL — REG. NO. 0339 — LICENSED LAND SURVEYOR

DuBois & King inc.
engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
RIGHT OF WAY SHEET

DRAWN BY	DATE
SJB	NOV. 2003
CHECKED BY	PROJ. NO.
JDA	R16544
PROJ. ENG.	DRAW. NO.
JDA	11432
SHEET 4 OF 30	

PLOTTED 12/02/2003

Metric

RIGHT OF WAY PLAN
DETAIL SHEET

TABLE OF PROJECT PROPERTY ACQUISITION

ALL STATIONS ARE FROM THE REVISED ℄

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
1A	BAST INVESTMENT COMPANY LLC	4	1+034.308 RT	1+144.789 ℄	2613.340 sq. m		FEE SIMPLE						
1B	BAST INVESTMENT COMPANY LLC	4	1+094.124 RT	1+136.582 RT	97.331 sq. m		DRAINAGE (P)						
1C	BAST INVESTMENT COMPANY LLC	4	1+049.302 RT	1+144.363 RT	771.474 sq. m		CONSTRUCTION TEMPORARY						
1D	BAST INVESTMENT COMPANY LLC	4	1+139.464 RT	1+144.714 RT	8.364 sq. m		DRAINAGE (P)						
1E	BAST INVESTMENT COMPANY LLC	4	1+072.033 RT	1+144.209 RT	598.478 sq. m		CONSTRUCTION TEMPORARY						
2A	THE LATCHIS CORPORATION	4	0+999.814 LT	1+036.870 LT	121.505 sq. m		CONSTRUCTION TEMPORARY						
2B	THE LATCHIS CORPORATION	4	1+030.703 LT	1+037.791 LT	13.400 sq. m		FEE SIMPLE						
3A	WHETSTONE, LTD	4	1+124.964 LT	1+144.547 LT	58.939 sq. m		CONSTRUCTION TEMPORARY						
4A	TOWN OF BRATTLEBORO	4	1+000.694 RT	1+034.308 RT	246.664 sq. m		CONSTRUCTION TEMPORARY						
4B	TOWN OF BRATTLEBORO	4	0+999.814 LT	1+035.273 RT	246.632 sq. m		INSTALL AND MAINTAIN PATHWAY (P)						

REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY

PLOTTED 12/02/2003

DuBois & King inc.
engineering planning management development

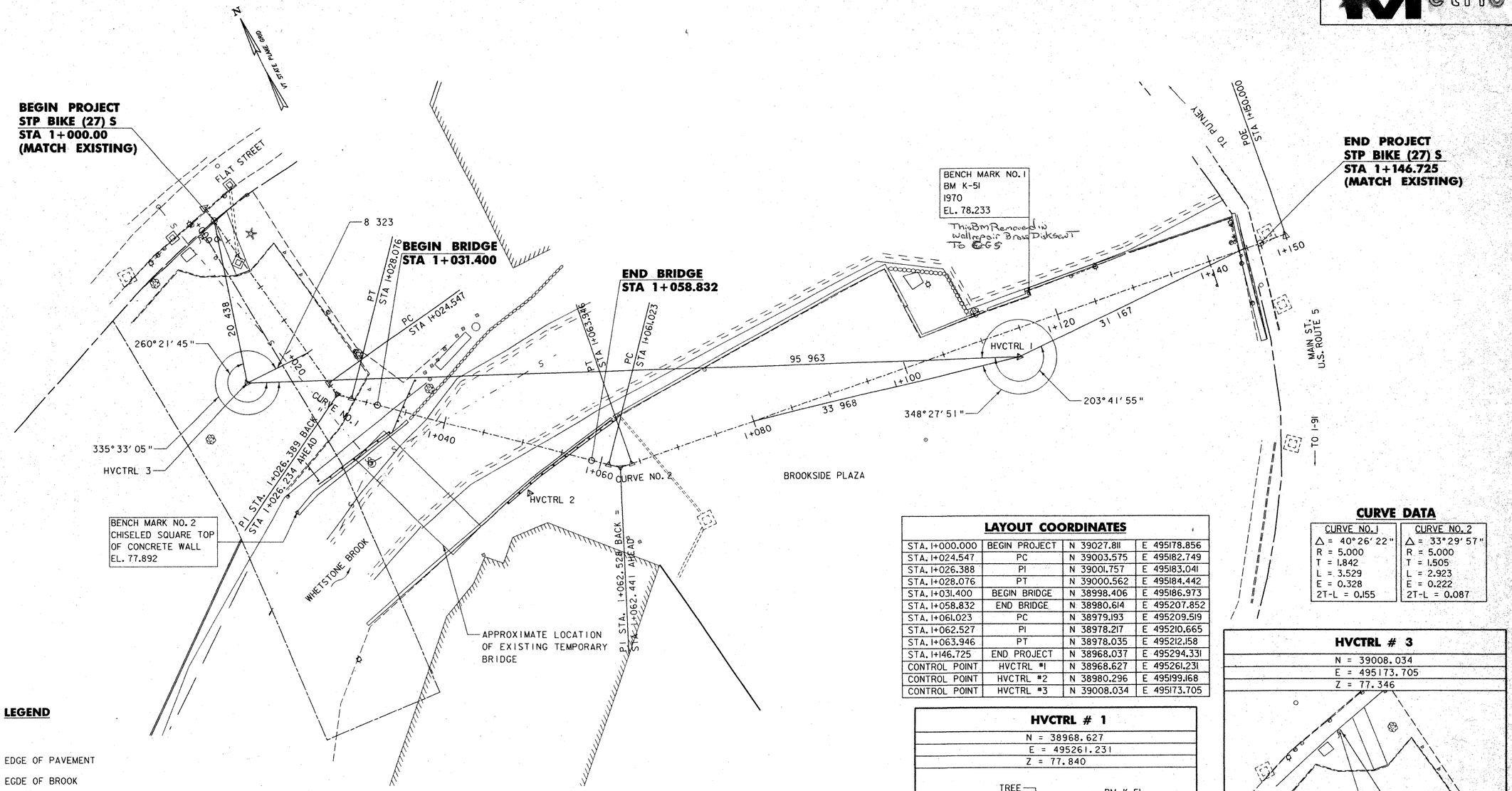
TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT

WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S

MAIN STREET TO FLAT STREET

DRAWN BY SJB	DATE NOV. 2003
CHECKED BY JMK	PROJ. NO. R16544
PROJ. ENG. JDA	DRAW. NO. 11433
SHEET 5 OF 30	

Metric



LAYOUT COORDINATES

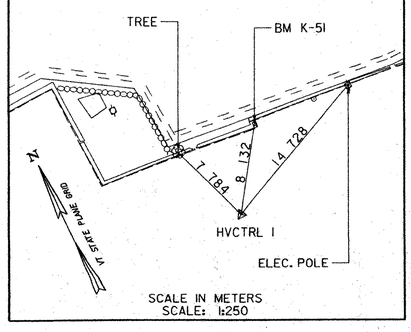
STA. 1+000.000	BEGIN PROJECT	N 39027.811	E 495178.856
STA. 1+024.547	PC	N 39003.575	E 495182.749
STA. 1+026.388	PI	N 39001.757	E 495183.041
STA. 1+028.076	PT	N 39000.562	E 495184.442
STA. 1+031.400	BEGIN BRIDGE	N 38998.406	E 495186.973
STA. 1+058.832	END BRIDGE	N 38980.614	E 495207.852
STA. 1+061.023	PC	N 38979.193	E 495209.519
STA. 1+062.527	PI	N 38978.217	E 495210.665
STA. 1+063.946	PT	N 38978.035	E 495212.158
STA. 1+146.725	END PROJECT	N 38968.037	E 495294.331
CONTROL POINT	HVCTRL #1	N 38968.627	E 495261.231
CONTROL POINT	HVCTRL #2	N 38980.296	E 495199.168
CONTROL POINT	HVCTRL #3	N 39008.034	E 495173.705

CURVE DATA

CURVE NO. 1	CURVE NO. 2
Δ = 40° 26' 22"	Δ = 33° 29' 57"
R = 5.000	R = 5.000
T = 1.842	T = 1.505
L = 3.529	L = 2.923
E = 0.328	E = 0.222
2T-L = 0.155	2T-L = 0.087

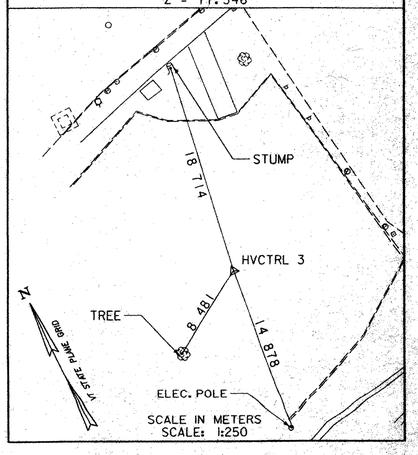
HVCTRL # 1

N = 38968.627
E = 495261.231
Z = 77.840



HVCTRL # 3

N = 39008.034
E = 495173.705
Z = 77.346



LEGEND

EXISTING

- EDGE OF PAVEMENT
- EGDE OF BROOK
- BUILDING
- TREE
- UTILITY POLE
- MANHOLE
- PARKING METER
- SIGN
- CULVERT
- CATCH BASIN
- RIGHT OF WAY LINE
- STONE WALL
- SEWER LINE
- TIE POINT

DATUM

VERTICAL NVD 88
HORIZONTAL NAD 83

TIE SHEET

5 0 5 10 15 20
SCALE IN METERS
SCALE: 1:250

STATE OF VERMONT
CHRISTOPHER W. HUNTER
No. 5806
REGISTERED
PROFESSIONAL ENGINEER

NOTES:

1. STATIONS ARE GIVEN IN KILOMETERS. ELEVATIONS AND CURVE DATA INFORMATION ARE GIVEN IN METERS. ALL DIMENSIONS ARE IN MILLIMETERS.
2. HORIZONTAL DISTANCE FROM THE BASE LINE TO THE BOTTOM FACE OF THE CURB (PARKING LOT SIDE) AS SHOWN ON TABLE 1, SHEET 24.

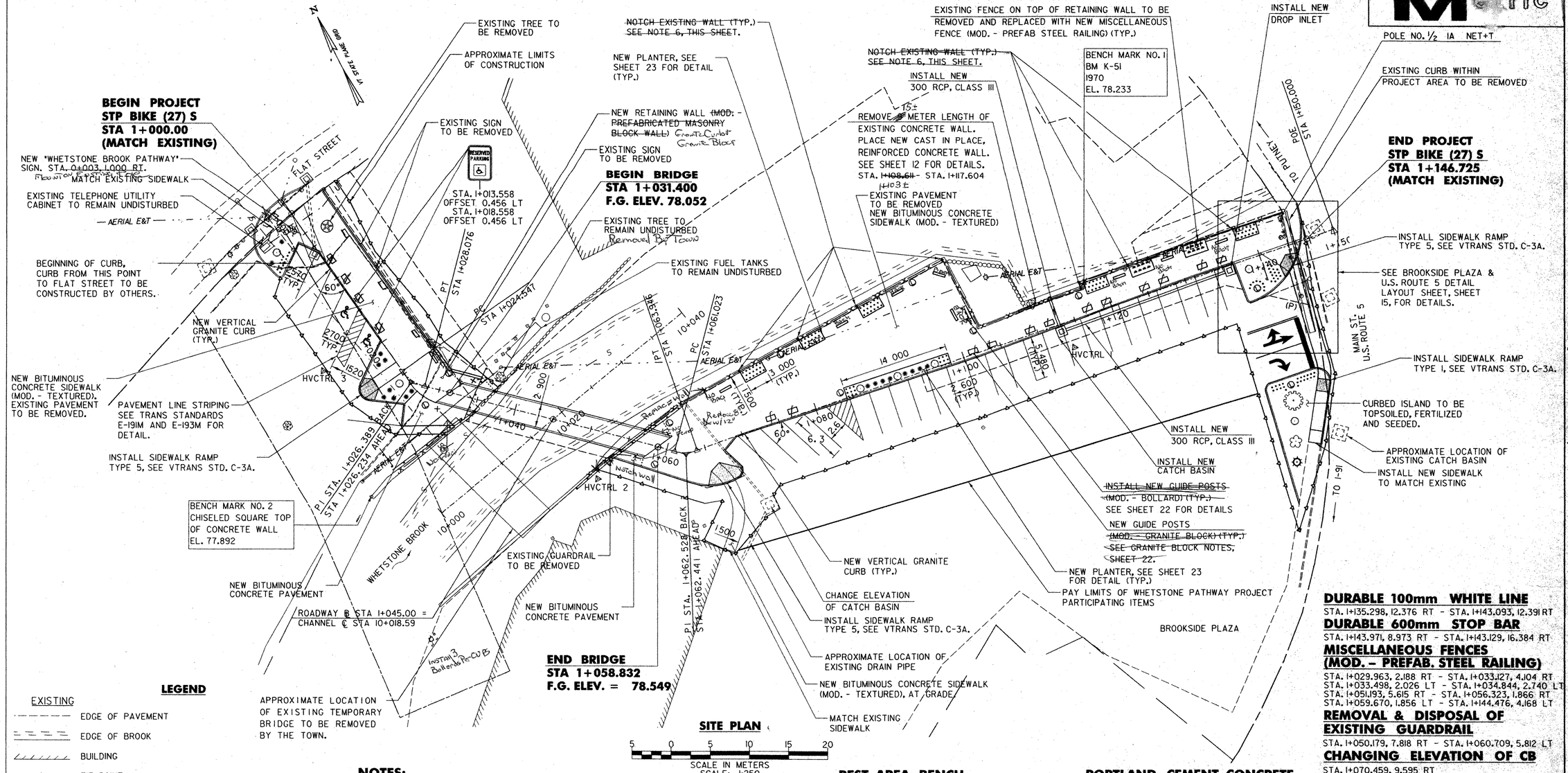
PLOTTED: 03/11/2004

DuBois & King inc.
engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
TIE SHEET

DRAWN BY SJB	DATE FEB. 2004
CHECKED BY JWT	PROJ. NO. RI6544
PROJ. ENG. JDA	DRAW. NO. 11434
SHEET 6 OF 30	

Metric



LEGEND

EXISTING

- EDGE OF PAVEMENT
- EDGE OF BROOK
- BUILDING
- TIE POINT
- TREE
- STUMP
- UTILITY POLE
- MANHOLE
- SIGN
- CULVERT
- CATCH BASIN
- ROW LINE
- STONE WALL
- SEWER LINE
- AERIAL E&T AERIAL E+T

PROPOSED

- SIGN
- CULVERT
- LIMITS OF CONSTRUCTION
- NEW STEEL FENCE
- BENCH
- STEEL BOLLARD
- GRANITE BLOCKS
- PATHWAY LIGHT
- CATCH BASIN
- BITUMINOUS CONCRETE SIDEWALK (MOD. - TEXTURED) / BITUMINOUS CONCRETE PAVEMENT BOUNDARY

DATUM

VERTICAL NVD 88
HORIZONTAL NAD 83

SITE PLAN

5 0 5 10 15 20
SCALE IN METERS
SCALE: 1:250

NOTES:

1. THE CONTRACTOR SHALL MATCH THE ELEVATION OF THE BACK OF THE EXISTING SIDEWALK ALONG FLAT STREET AND MAIN STREET.
2. ALL EXISTING PAVEMENT THAT IS LOCATED WITHIN THE LIMITS OF THE CURBED PATHWAY IS TO BE REMOVED. PAYMENT FOR THIS WORK SHALL BE PAID UNDER ITEM 203.15, "COMMON EXCAVATION".
3. STATIONS OF PLANTERS AND BENCHES GIVEN ARE TO THE CENTER OF EACH.
4. STATIONS ARE GIVEN IN KILOMETERS, OFFSETS ARE GIVEN IN METERS AND DIMENSIONS ARE GIVEN IN MILLIMETERS.
5. NEW SIDEWALK RAMPS TO INCLUDE TRUNCATED DOMES (I.E. DETECTABLE WARNINGS) COMPLIANT WITH THE VERMONT PEDESTRIAN AND BICYCLE FACILITY PLANNING AND DESIGN MANUAL DATED DECEMBER 2002. RAMPS AND TRUNCATED DOMES SHALL COMPLY WITH VTRANS STD. C-3A. TRUNCATED DOMES ARE TO BE PAID FOR UNDER ITEM 618.30, "DETECTABLE WARNING SURFACE".
6. NOTCHES TO EXISTING WALL ARE TO PROVIDE FOR POSITIVE DRAINAGE. ALL NOTCHES TO BE 125mm WIDE. THE BOTTOM OF ALL THE NOTCHES SHALL BE AT FINISHED GRADE. NOTCHING TO BE PAID UNDER ITEM 203.16, "SOLID ROCK EXCAVATION".
7. THE ~~FOUR BENCHES ALONG THE WIDER PORTION OF PATHWAY ARE TO BE WITHOUT BACKS.~~ SEE SHEET 21 FOR DETAILS. FINAL LOCATION OF THE BENCHES TO BE DETERMINED IN THE FIELD AND APPROVED BY THE TOWN. See Above For Changes by DPW Dir.
8. NEW BITUMINOUS CONCRETE SIDEWALK (MOD. - TEXTURED) SHALL BE STREETPRINT'S OFFSET BRICK STYLE AND BRICK COLOR.
9. SEE SHEET 13 NOTES FOR A DESCRIPTION OF IMPROVEMENTS TO THE BAST PARKING LOT OUTSIDE OF THE LIMITS OF CONSTRUCTION FOR THIS PROJECT.

REST AREA BENCH
STA. 1+028.284, 3.847 LT STA. 1+100.681, 5.617 LT
STA. 1+069.933, 6.150 LT STA. 1+122.207, 3.330 LT
STA. 1+086.752, 9.226 LT STA. 1+128.761, 3.477 LT
STA. 1+094.747, 10.702 LT STA. 1+136.027, 3.282 LT
STA. 1+100.558, 11.138 LT

GUIDE POST (MOD. - GRANITE BLOCK)
STA. 1+007.566, 0.900 LT STA. 1+109.187, 0.557 LT
STA. 1+010.717, 0.900 LT STA. 1+111.788, 0.621 LT
STA. 1+013.709, 0.900 LT STA. 1+116.991, 0.748 LT
STA. 1+018.284, 0.900 LT STA. 1+119.592, 0.811 LT
STA. 1+074.175, 0.751 LT STA. 1+124.794, 0.938 LT
STA. 1+077.144, 0.713 LT STA. 1+127.394, 1.001 LT
STA. 1+101.418, 0.401 LT STA. 1+132.629, 1.064 LT
STA. 1+103.985, 0.430 LT STA. 1+135.229, 1.029 LT

PORTLAND CEMENT CONCRETE SIDEWALK 125mm
STA. 1+142.646, 17.754 RT - STA. 1+138.825, 25.032 RT

PORTLAND CEMENT CONCRETE SIDEWALK 200mm
STA. 1+143.651, 2.661 RT - STA. 1+424.646, 17.754 RT

REMOVE CHAIN LINK FENCE
STA. 1+027.724, 11.109 RT - STA. 1+035.080, 4.292 LT
STA. 1+060.706, 5.812 LT - STA. 1+144.477, 4.228 LT

DURABLE 100mm YELLOW LINE
STA. 1+135.298, 9.076 RT - STA. 1+143.338, 9.091 RT

LETTERS OR SYMBOLS
STA. 1+015.000, 3.000 RT "HANDICAP"
STA. 1+020.000, 3.000 RT "HANDICAP"
STA. 1+137.093, 10.995 RT "ARROW"
STA. 1+137.425, 14.648 RT "ARROW"

NEW VERTICAL GRANITE PLANTER (3m x 1.5m)
STA. 1+074.015, 7.112 LT STA. 1+125.269, 3.432 LT
STA. 1+082.464, 8.604 LT STA. 1+132.564, 3.533 LT
STA. 1+090.951, 10.077 LT STA. 1+139.394, 3.431 LT
STA. 1+119.105, 3.307 LT

DURABLE 100mm WHITE LINE
STA. 1+135.298, 12.376 RT - STA. 1+143.093, 12.391 RT

DURABLE 600mm STOP BAR
STA. 1+143.971, 8.973 RT - STA. 1+143.129, 16.384 RT

MISCELLANEOUS FENCES (MOD. - PREFAB. STEEL RAILING)
STA. 1+029.963, 2.188 RT - STA. 1+033.127, 4.104 RT
STA. 1+033.498, 2.026 LT - STA. 1+034.844, 2.740 LT
STA. 1+051.193, 5.615 RT - STA. 1+056.323, 1.866 RT
STA. 1+059.670, 1.856 LT - STA. 1+144.476, 4.168 LT

REMOVAL & DISPOSAL OF EXISTING GUARDRAIL
STA. 1+050.179, 7.818 RT - STA. 1+060.709, 5.812 LT

CHANGING ELEVATION OF CB
STA. 1+070.459, 9.595 RT

300MM RCP, CLASS III
STA. 1+112.820, 3.755 LT - STA. 1+112.891, 0.335 RT
STA. 1+113.517, 0.929 RT - STA. 1+135.166, 0.593 RT

PRECAST CONCRETE DROP INLET
STA. 1+135.776, 0.601 RT

PRECAST CONCRETE CATCH BASIN
STA. 1+112.909, 0.944 RT

VERTICAL GRANITE CURB
STA. 1+000.000 LT - STA. 1+028.076 LT
STA. 1+005.040 RT - STA. 1+027.323 RT
STA. 1+053.369 RT - STA. 1+146.723 LT
STA. 1+134.365 RT - STA. 1+143.226 RT

GUIDE POST (MOD. - BOLLARD)
STA. 1+101.826, 6.051 LT
STA. 1+102.036, 4.558 LT

NEW VERTICAL GRANITE PLANTER (14m x 1.5m)
STA. 1+091.235, 0.529 LT

STATE OF VERMONT — JOHN D. WILLIAMS — NO. 5818 — REGISTERED PROFESSIONAL ENGINEER

PLOTTED: 03/11/2004

DuBois & King inc.
engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT

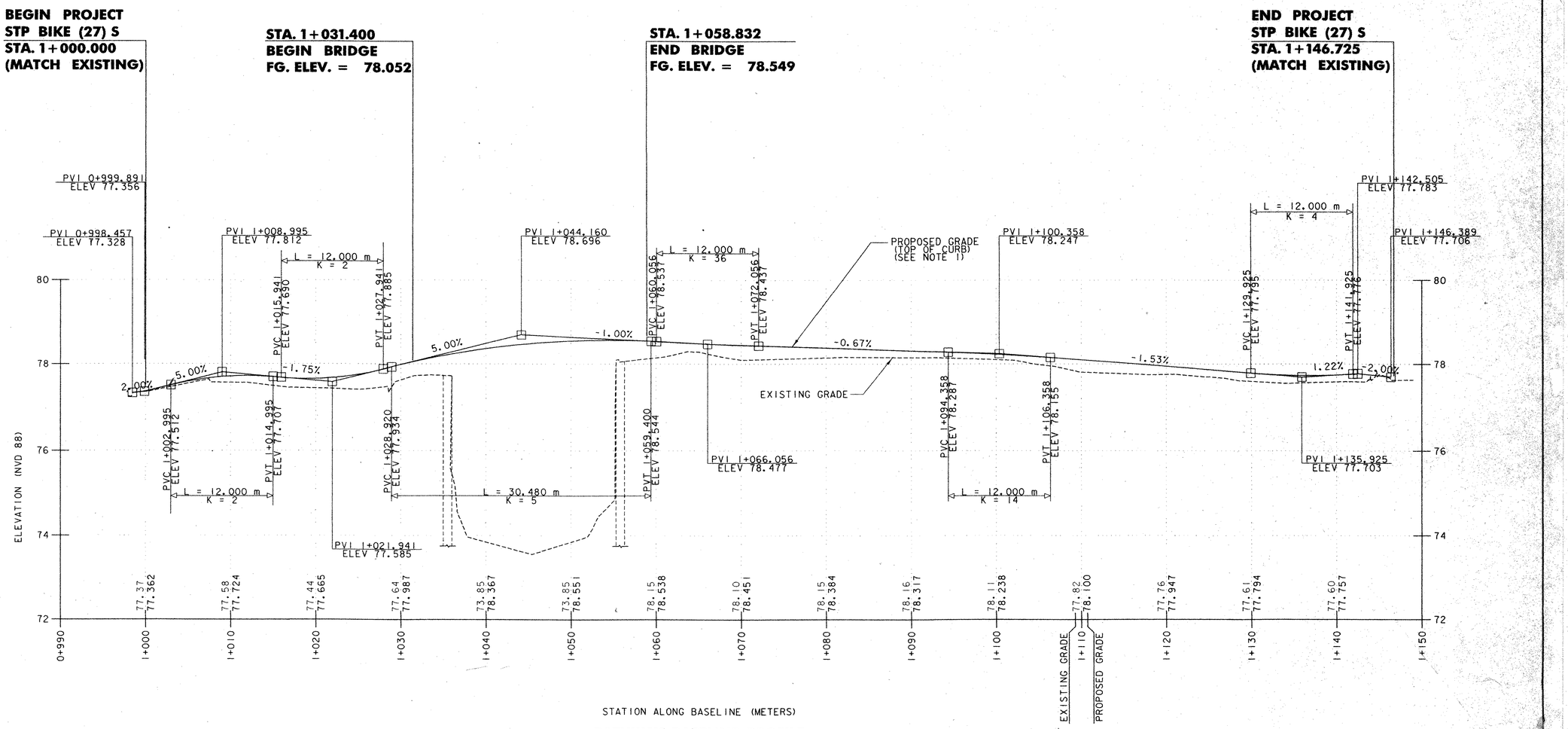
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S

PLAN SHEET

DRAWN BY	DATE
SJB	FEB. 2004
CHECKED BY	PROJ. NO.
JWK	R16544
PROJ. ENG.	DRAW. NO.
JDA	11435

SHEET 7 OF 30

Metric

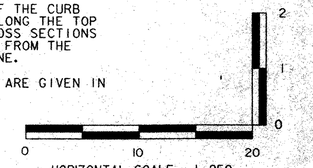


STATION ALONG BASELINE (METERS)

PATHWAY BASELINE PROFILE

NOTES:

1. FOR LOCATIONS WHERE THE BASELINE IS AT THE BOTTOM FACE OF THE CURB (PARKING LOT SIDE), PROPOSED GRADE SHOWN ON PROFILE IS ALONG THE TOP OF CURB. SEE TYPICAL SECTIONS ON SHEET 2 AND PATHWAY CROSS SECTIONS FOR DETAILS. TABLE 1 ON SHEET 24 SHOWS OFFSET DISTANCES FROM THE BOTTOM FACE OF THE CURB (PARKING LOT SIDE) TO THE BASELINE.
2. STATIONS ARE GIVEN IN KILOMETERS, ELEVATIONS AND LENGTHS ARE GIVEN IN METERS.



HORIZONTAL SCALE = 1:250
VERTICAL SCALE = 1:50

DATUM
VERTICAL NVD 88
HORIZONTAL NAD 83

STATE OF VERMONT — JOHN D. ANDERSON — No. 9306 — REGISTERED PROFESSIONAL ENGINEER

PLOTTED: 03/11/2004

DuBois & King inc.
engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
PROFILE SHEET

DRAWN BY	DATE
SJB	FEB. 2004
CHECKED BY: JA	PROJ. NO. R16544
PROJ. ENG. JDA	DRAW. NO. 11431c
SHEET 8 OF 30	

Metric

SOIL CLASSIFICATION

AASHTO	
A1	Gravel and Sand
A3	Fine Sand
A2	Silty or Clayey Gravel and Sand
A4	Silty Soil - Low Compressibility
A5	Silty Soil - Highly Compressible
A6	Clayey Soil - Low Compressibility
A7	Clayey Soil - Highly Compressible

ROCK QUALITY DESIGNATION

R.Q.D. (%)	ROCK DESCRIPTION
<25	Very Poor
25 to 50	Poor
51 to 75	Fair
76 to 90	Good
>90	Excellent

SHEAR STRENGTH

UNDRAINED SHEAR STRENGTH IN kPa	CONSISTENCY
<12	Very Soft
12-24	Soft
24-48	Med. Stiff
48-96	Stiff
96-192	Very Stiff
>192	Hard

CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY

DENSITY (GRANULAR SOILS) N	DESCRIPTIVE TERM	CONSISTENCY (COHESIVE SOILS) N	DESCRIPTIVE TERM
<5	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-24	Med. Dense	5-8	Med. Stiff
25-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very Stiff
		31-60	Hard
		>60	Very Hard

COMMONLY USED SYMBOLS

▼	Water Elevation
⊕	Standard Penetration Boring
⊕	Auger Boring
⊙	Rod Sounding
S	Sample
N	Standard Penetration Test Blow Count Per 300 mm For: 50.8 mm O.D. Sampler 35.0 mm I.D. Sampler Hammer Weight Of 63.5 kg. Hammer Fall Of 762 mm
VS	Field Vane Shear Test
US	Undisturbed Soil Sample
B	Blast
DC	Diamond Core
MD	Mud Drill
WA	Wash Ahead
HSA	Hollow Stem Auger
AX	Core Size 30.1mm
BX	Core Size 42.0 mm
NX	Core Size 54.7 mm
M	Double Tube Core Barrel Used
LL	Liquid Limit
PL	Plastic Limit
PI	Plasticity Index
NP	Non Plastic
w	Moisture Content (Dry Wgt. Basis)
D	Dry
M	Moist
MTW	Moist To Wet
W	Wet
Sat	Saturated
Bo	Boulder
Gr	Gravel
Sa	Sand
Si	Silt
Cl	Clay
HP	Hardpan
Le	Ledge
NLTD	No Ledge To Depth
CNPF	Can Not Penetrate Further
TLOB	To Ledge Or Boulder
NR	No Recovery
Rec.	Recovery
%Rec.	Percent Recovery
RQD	Rock Quality Designation
CBR	California Bearing Ratio
<	Less Than
>	Greater Than
R	Refusal (N > 100)

COLOR

blk	Black	pnk	Pink
bl	Blue	pu	Purple
brn	Brown	rd	Red
dk	Dark	tn	Tan
gry	Gray	wh	White
gn	Green	yel	Yellow
lt	Light	mltc	Multicolored
or	Orange		

DEFINITIONS (AASHTO)

BEDROCK (LEDGE) - Rock in its native location of indefinite thickness.

BOULDER - A rock fragment with an average dimension > 304.8 mm.

COBBLE - Rock fragments with an average dimension between 76.2 and 304.8 mm.

GRAVEL - Rounded particles of rock < 76.2 mm and > 2 mm (#10 sieve).

SAND - Particles of rock < 2 mm (#10 sieve) and > 75 μm (#200 sieve).

SILT - Soil < 75 μm (#200 sieve), non or slightly plastic and exhibits no strength when air-dried.

CLAY - Fine grained soil, exhibits plasticity when moist and considerable strength when air-dried.

VARVED - Alternate layers of silt and clay.

HARDPAN - Extremely dense soil, cemented layer, not softened when wet.

MUCK - Soft organic soil (containing > 10% organic material.

MOISTURE CONTENT - Weight of water divided by dry weight of soil.

FLOWING SAND - Granular soil so saturated (loose) that it flows into drill casing during extraction of wash rod.

STRIKE - Angle from magnetic north to line of intersection of bed with a horizontal plane.

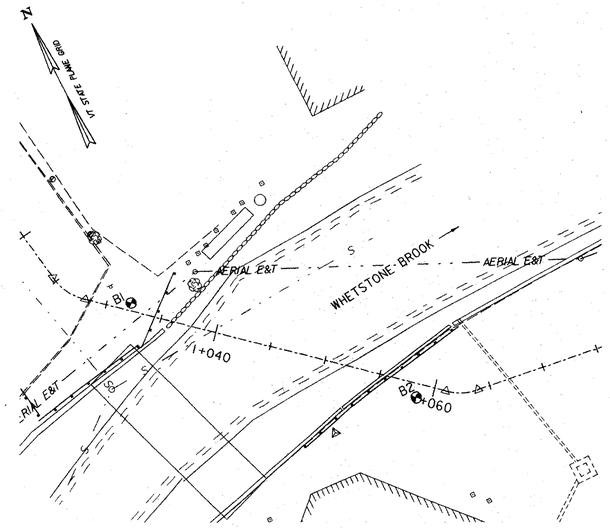
DIP - Inclination of bed with a horizontal plane.

DATUM

VERTICAL NVD 88

HORIZONTAL NAD 83

HOLE NO.	STATION	OFFSET (m)	GROUND ELEV.
B1	1+032.094	0.694 LT	77.75
B2	1+058.623	1.161 RT	78.20



BORING PLAN

5 0 5 10 15 20

SCALE IN METERS
SCALE: 1:250

GENERAL NOTES

1. The subsurface explorations shown herein were made between 4/24/02 and 4/25/02 by CON-TEC, INC.
2. Soil and rock classifications, properties and descriptions are based on engineering interpretation from available subsurface information by the Agency and may not necessarily reflect actual variations in subsurface conditions that may be encountered between individual boring or sample locations.
3. Observed water levels and/or conditions indicated are as recorded at the time of exploration and may vary according to the prevailing rainfall, methods of exploration and other factors.
4. Engineering judgement was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor access to the same data available to the Agency. The subsurface information is presented in good faith and is not intended as a substitute for personal investigation, independent interpretation, independent analysis or judgement by the Contractor.
5. Pictorial structure details shown on the boring plan layout or soils profile are for illustrative purposes only and may not accurately portray final contract details.
6. Terminology used on boring logs to describe the hardness, degree of weathering, and spacing of fractures, joints and other discontinuities in the bedrock is defined in the AASHTO Manual on Subsurface Investigations, 1988.

STATE OF VERMONT — JOSEPH A. DUBOIS — No. 5605 — REGISTERED PROFESSIONAL ENGINEER

PLOTTED: 03/11/2004

DuBois & King inc.
engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT

WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S

BORING INFORMATION SHEET

DRAWN BY SJB	DATE FEB. 2004
CHECKED BY JAK	PROJ. NO. RIC 544
PROJ. ENG. JDA	DRAW. NO. 11437
SHEET 9 OF 30	

CON-TEC, INC. TEST BORING LOG

PROJECT: **PEDESTRIAN BRIDGE OVER WHETSTONE BROOK**

LOCATION: **BRATTLEBORO, VT**

JOB NO. G 28964
HOLE NO. B-1
SHEET 1 OF 2
START DATE 4/24/02
FINISH DATE 4/24/02
DRILLER S. CLAVETTE
HELPER J. CALDWELL
INSPECTOR B. AUSTIN

	CASING	SAMPLE	CORE
TYPE	HSA	SS	
SIZE ID	4 1/4"	1 3/8"	
HAMMER WT.		140	
HAMMER FALL		30"	

GROUNDWATER		DEPTH TO		
DATE	TIME	WATER	BOTTOM OF CASING	BOTTOM OF HOLE
4/24/02		14.5'		

DEPTH IN FEET	CASING BLOWS PER FOOT	SAMP NO.	SAMPLE DEPTH	SAMPLE BLOWS PER 6 INCHES	RECOV.	SOIL DESCRIPTION
		S-1	0' - 2'	8 - 14	6"	DRY, MEDIUM DENSE, BROWN, FINE SAND, SOME COARSE SAND, TRACE GRAVEL
				15 - 24		
		S-2	2' - 4'	19 - 20	10"	SAME AS S-1
				10 - 8		
5.0'		S-3	4' - 6'	21 - 10	12"	DRY, MEDIUM DENSE, BROWN, FINE SAND, SOME COARSE SAND, TRACE TRAVEL,
				11 - 8		TRACE GLASS
		S-4	6' - 8'	7 - 7	12"	DRY, MEDIUM DENSE, BROWN, FINE SAND, TRACE OF COARSE SAND
				6 - 7		
		S-5	8' - 10'	8 - 6	20"	DRY, MEDIUM DENSE, BROWN, FINE SAND, TRACE OF INORGANIC SILT
10.0'				6 - 7		
		S-6	10' - 12'	8 - 9	16"	SME AS S-5, EXCEPT WITH TRACE OF COARSE SAND
				7 - 8		
		S-7	2' - 13' 10"	8 - 7	16"	12' - 13.5' SAME AS S-6
				8 - 50/4"		13.5' - 14' COARSE SAND AND GRAVEL, SOME FINE SAND 13.5'
15.0'						
		S-8	16' - 18'	85 - 55	10"	POSSIBLE WEATHERED BEDROCK
				50 - 22		
		S-9	18' - 20'	24 - 13	12"	WET, DENSE, GRAY, FINE SAND, SOME COARSE SAND, SOME GRAVEL
20.0'				18 - 21		
		S-10	20' - 22'	7 - 10	10"	SAME AS S-9
				17 - 16		
		S-11	22' - 24'	20 - 20	18"	WET, DENSE, GRAY, FINE SAND, TRACE INORGANIC SILT 22.0'
				26 - 23		
25.0'		S-12	24' - 26'	9 - 11	10"	WET, MEDIUM DENSE, GRAY, FINE SAND, TRACE INORGANIC SILT
				15 - 22		
		S-13	26' - 28'	21 - 22	22"	SAME AS S-12, EXCEPT DENSE
				19 - 23		
		S-14	28' - 30'	16 - 28	16"	SAME AS S-12, EXCEPT VERY DENSE
30.0'				46 - 43		
		S-15	30' - 32'	8 - 21	12"	SAME AS S-12, EXCEPT DENSE
				25 - 24		
		S-16	32' - 34'	21 - 23	22"	SAME AS S-12, EXCEPT VERY DENSE
				34 - 42		
35.0'		S-17	34' - 36'	17 - 33	14"	SAME AS S-12, EXCEPT VERY DENSE
				37 - 42		
		S-18	36' - 38'	29 - 37	20"	SAME AS S-12, EXCEPT VERY DENSE
				42 - 44		
		S-19	38' - 40'	21 - 24	18"	SAME AS S-12, EXCEPT DENSE
40.0'				19 - 22		40.0'
						BOTTOM OF EXPLORATION 40.0'
45.0'						NOTE: 1. NO SAMPLE FROM 14'-16' DUE TO COBBLES. 2. TYPED DRILLER'S FIELD LOG.

BOTTOM OF FOOTING

CON-TEC, INC. TEST BORING LOG

PROJECT: PEDESTRIAN BRIDGE OVER WHETSTONE BROOK

LOCATION: BRATTLEBORO, VT

JOB NO. G 28964
HOLE NO. B-2
SHEET 1 OF 2
START DATE 4/24/02
FINISH DATE 4/25/02
DRILLER S. CLAVETTE
HELPER J. CALDWELL
INSPECTOR B. AUSTIN

	CASING	SAMPLE	CORE
TYPE	HSA	SS	
SIZE ID	4 1/4"	1 3/8"	
HAMMER WT.		140	
HAMMER FALL		30"	

GROUNDWATER		DEPTH TO		
DATE	TIME	WATER	BOTTOM OF CASING	BOTTOM OF HOLE
4/25/02		14'		

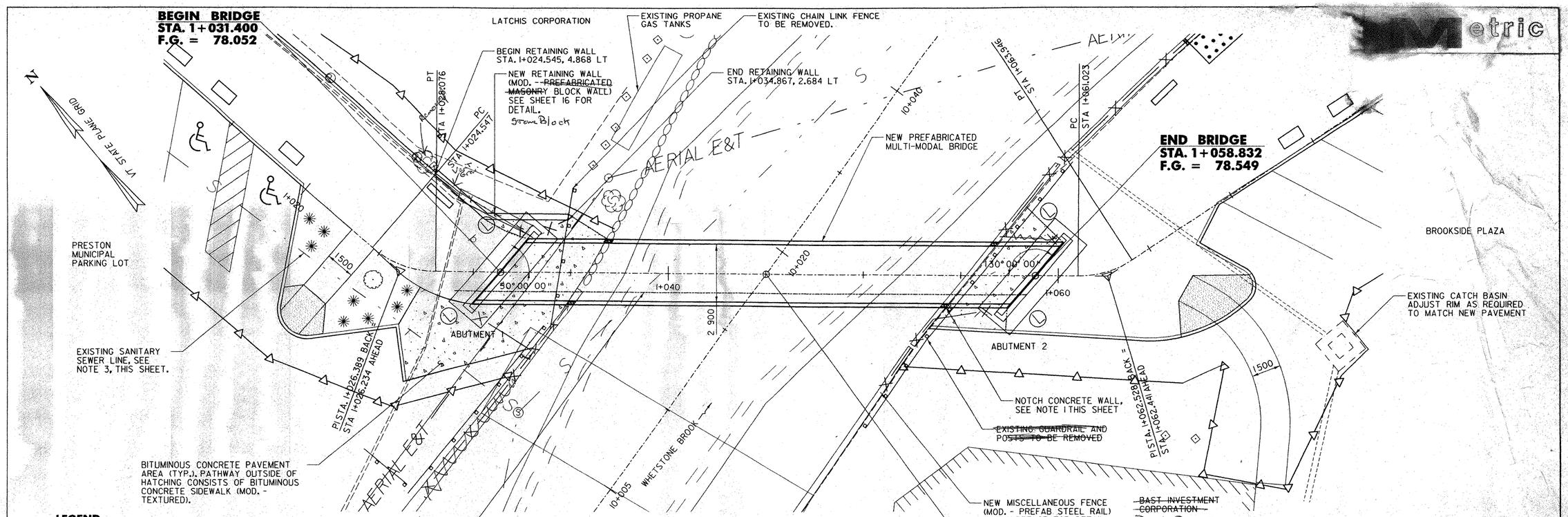
DEPTH IN FEET	CASING BLOWS PER FOOT	SAMP NO.	SAMPLE DEPTH	SAMPLE BLOWS PER 6 INCHES	RECOV.	SOIL DESCRIPTION
		S-1	0' - 2'	10 - 9	10"	ASPHALT 2"
				7 - 4		DRY, MEDIUM DENSE, BLACK, FINE SAND, SOME COARSE SAND, SOME GRAVEL
		S-2	2' - 4'	36 - 27	6"	DRY, DENSE, BLACK, FINE SAND, SOME COARSE SAND, SOME GRAVEL, SOME
				17 - 14		FRAGMENTS OF CONCRETE
5.0'		S-3	4' - 6'	15 - 11	10"	DRY, MEDIUM DENSE, BLACK, FINE SAND, SOME COARSE SAND, TRACE OF
				10 - 17		GRAVEL
		S-4	6' - 8'	16 - 11	18"	SAME AS S-3, EXCEPT BROWN
				9 - 7		
		S-5	8' - 10'	12 - 10	20"	DRY, BROWN, MEDIUM DENSE, FINE SAND, TRACE OF COARSE SAND
10.0'				11 - 12		
		S-6	10' - 12'	13 - 9	16"	SAME AS S-5, EXCEPT GRAY
				11 - 12		
		S-7	12' - 14'	11 - 10	22"	SAME AS S-6, EXCEPT WITH SOME ORGANICS
				8 - 8		
15.0'		S-8	14' - 16'	4 - 6	16"	WET, MEDIUM DENSE, BLACK, FINE SAND, SOME ORGANICS, TRACE OF COARSE
				5 - 14		SAND
		S-9	16' - 18'	16 - 15	18"	WET, DENSE, BLACK, FINE SAND, SOME COARSE SAND 16.0'
		S-10	18' - 20'	56 - 42	18"	WET, VERY DENSE, GRAY GRAVEL, SOME COARSE SAND, SOME FINE SAND
20.0'				39 - 27		
		S-11	20' - 21' 11"	24 - 31	12"	SAME AS S-10
				49-100/5"		
		S-12	22' - 24'	27 - 21	16"	WET, DENSE, GRAY, FINE SAND, SOME COARSE SAND, TRACE OF GRAVEL
				19 - 14		
25.0'		S-13	24' - 26'	15 - 18	12"	WET, DENSE, GRAY, FINE SAND, TRACE OF COARSE SAND 24.0'
				24 - 26		
		S-14	26' - 28'	12 - 19	20"	WET, DENSE, GRAY, FINE SAND, TRACE INORGANIC SILT
				20 - 24		
		S-15	28' - 30'	11 - 14	19"	SAME AS S-14, EXCEPT WITH SOME INORGANIC SILT
30.0'				19 - 16		
		S-16	30' - 32'	12 - 14	20"	SAME AS S-15
				19 - 19		
		S-17	32' - 34'	9 - 11	21"	SAME AS S-15
				14 - 21		
35.0'		S-18	34' - 36'	15 - 19	20"	SAME AS S-15
				29 - 33		
		S-19	36' - 38'	16 - 23	18"	SAME AS S-15
				30 - 33		
		S-20	38' - 40'	19 - 18	24"	SAME AS S-15
40.0'				24 - 31		40.0'
						BOTTOM OF EXPLORATION 40.0'
45.0'						TYPED DRILLER'S FIELD LOG

PLOTTED: 03/11/2004

DuBois & King inc.
engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
BORING LOG SHEET

DRAWN BY SJB	DATE FEB. 2004
CHECKED BY JKS	PROJ. NO. R16544
PROJ. ENG. SJB	DRAW. NO.
SHEET 10 OF 30	



PLAN

0 1 2 4 6 8 10

SCALE = 1:100

LEGEND

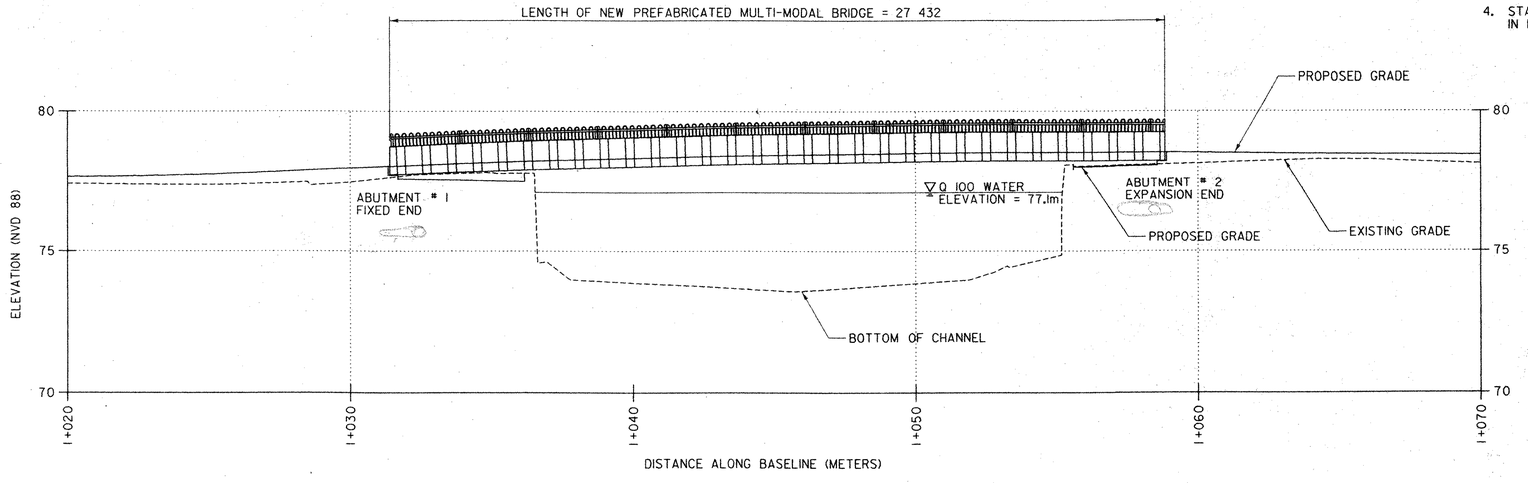
EXISTING

- EDGE OF PAVEMENT
- EDGE OF RIVER
- BUILDING
- TREE
- TIE POINT
- UTILITY POLE
- SEWER MANHOLE
- STREET LIGHT
- SIGN
- CULVERT
- CATCH BASIN
- STONE WALL
- SEWER LINE
- AERIAL E&T AERIAL E+T

PROPOSED

- SIGN
- VERTICAL GRANITE CURB
- LIMITS OF CONSTRUCTION
- WIRE CONDUIT UNDER BRIDGE
- NEW STEEL FENCE
- PATHWAY LIGHT
- GRANITE BLOCKS
- BITUMINOUS CONCRETE SIDEWALK (MOD. - TEXTURED) / BITUMINOUS CONCRETE PAVEMENT BOUNDARY

ELECTRICAL LINE AND CONDUIT TO BE INSTALLED UNDER BRIDGE TO SUPPLY ELECTRICAL POWER FOR NEW PATHWAY LIGHTS IN PRESTON PARKING LOT. SEE UTILITY SHEET FOR MORE DETAIL ON ELECTRIC CONDUIT FOR NEW LIGHT POLES. PAYMENT FOR LINE, CONDUIT, MOUNTING BRACKETS, EXPANSION JOINTS AND OTHER COMPONENTS NECESSARY TO INSTALL THE CONDUIT SHALL BE PAID INCIDENTAL TO ITEM 545.20, "PREFABRICATED MULTI-MODAL BRIDGE".



ELEVATION

0 1 2 4 6 8 10

SCALE = 1:100

NOTE:

1. THE CONTRACTOR SHALL SAW CUT AND USE LIGHTWEIGHT HAMMERS TO REMOVE TOP OF CONCRETE WALL TO PROVIDE FOR ADEQUATE DRAINAGE. A MINIMUM OF 125 mm VERTICAL CLEARANCE FROM BOTTOM OF BEAM TO TOP OF CONCRETE WALL. SEE SHEET 2 FOR GRADING BETWEEN THE BEGIN/END OF BRIDGE AND CONCRETE WALL.
2. THE COLOR OF THE BRIDGE STEEL BEAMS AND THE BRIDGE RAIL SHALL BE BLACK, PAINT CHIP NO. 37038.
3. LOCATION SHOWN OF EXISTING SANITARY SEWER LINE SHOWN NEAR ABUTMENT 1 IS APPROXIMATE. SEWER SHALL NOT BE DISTURBED DURING CONSTRUCTION.
4. STATIONS ARE GIVEN IN KILOMETERS, ELEVATIONS ARE GIVEN IN METERS AND DIMENSIONS ARE GIVEN IN MILLIMETERS.

DATUM	
VERTICAL	NVD 88
HORIZONTAL	NAD 83

STATE OF VERMONT — SUSAN J. BAKER — NO. 992 — REGISTERED PROFESSIONAL ENGINEER

PLOTTED: 03/11/2004

DuBois & King inc.
engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT

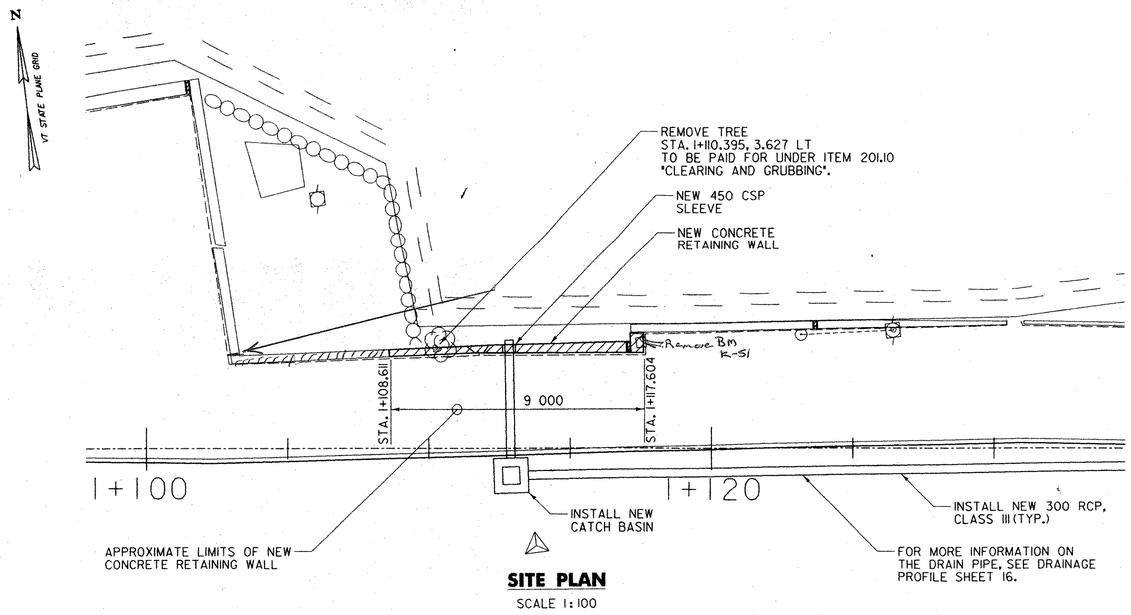
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S

PLAN AND ELEVATION SHEET

DRAWN BY	DATE
SJB	FEB. 2004
CHECKED BY	PROJ. NO.
JDA	BIKE 44
PROJ. ENG.	DRAW. NO.
JDA	11

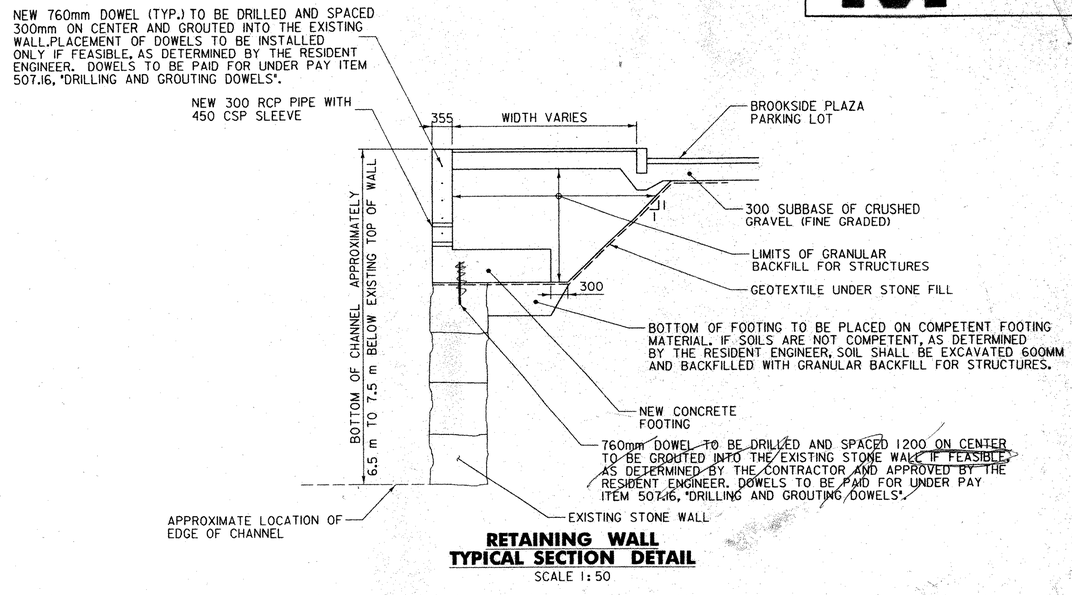
SHEET 11 OF 22

Metric



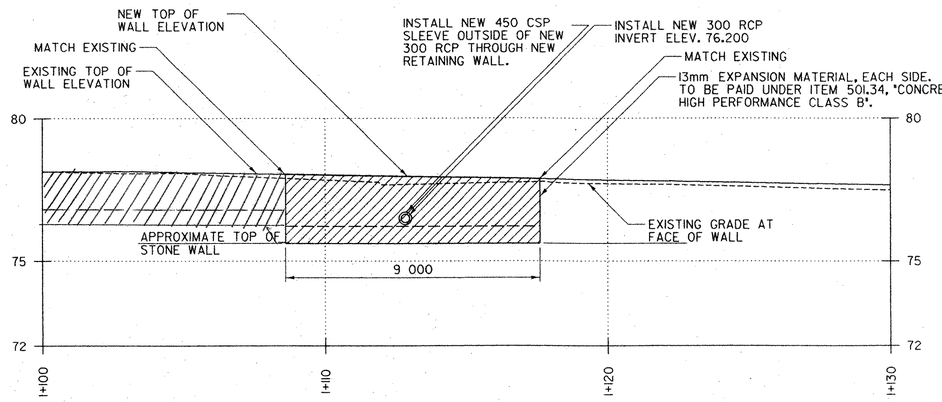
SITE PLAN

SCALE 1:100



RETAINING WALL TYPICAL SECTION DETAIL

SCALE 1:50



PROFILE

SCALE 1:100

RETAINING WALL REINFORCING DETAIL

SCALE 1:20

LEGEND

EXISTING

- EDGE OF PAVEMENT
- EDGE OF BROOK
- TREE
- UTILITY POLE
- TIE POINT

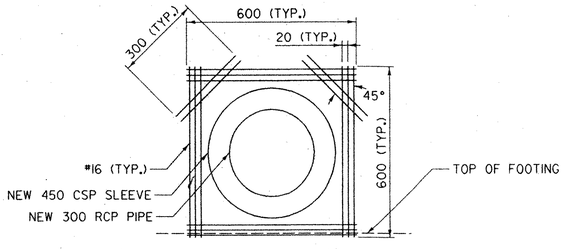
PROPOSED

- CURB
- CULVERT
- CATCH BASIN

DATUM

VERTICAL NVD 88

HORIZONTAL NAD 83



STEEL REINFORCING AT PIPE DETAIL

SCALE 1:10

NOTES

1. THE EXISTING CONCRETE RETAINING WALL SECTION TO BE REMOVED SHALL BE PAID FOR BY PAY ITEM 203.16, "SOLID ROCK EXCAVATION."
2. CONCRETE FOOTING IS TO BE PLACED ON THE TOP OF EXISTING STONE WALL, WHICH IS TO REMAIN UNDISTURBED, EXCEPT FOR THE DRILLING AND GROUTING OF DOWELS.
3. TOP OF NEW CONCRETE WALL ELEVATION SHALL MATCH THE EXISTING TOP OF WALL.
4. STATIONS ARE GIVEN IN KILOMETERS, ELEVATIONS ARE GIVEN IN METERS AND DIMENSIONS ARE GIVEN IN MILLIMETERS.

STATE OF VERMONT — STEPHEN W. KUNDIG — 9616 — REGISTERED PROFESSIONAL ENGINEER

PLOTTED: 03/11/2004

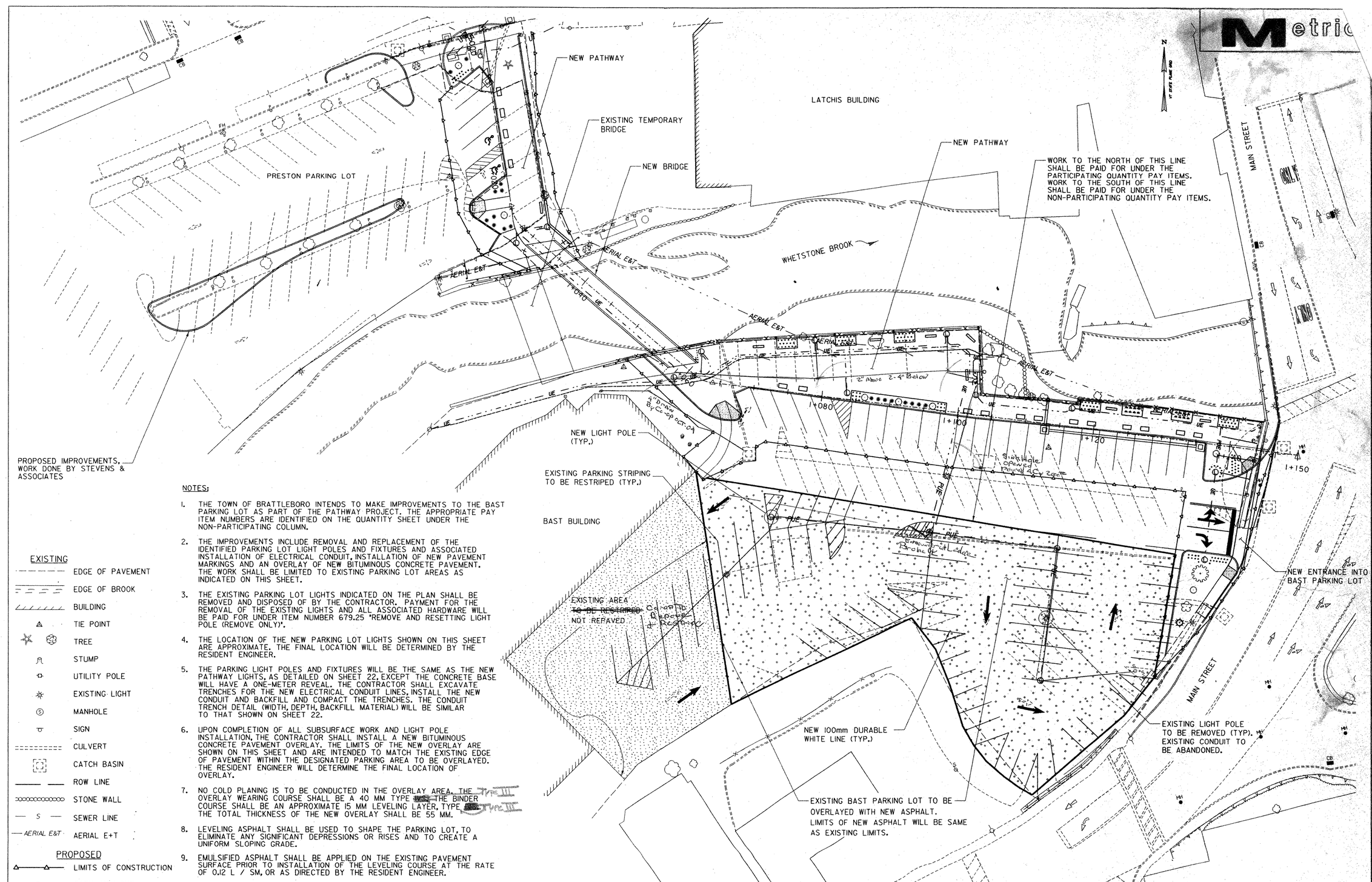
DuBois & King inc.
engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT

WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S

RETAINING WALL SHEET

DRAWN BY: SJC	DATE: FEB. 2004
CHECKED BY:	PROJ. NO. RI6544
PROJ. ENG. JDA	DRAW. NO. 17 440
SHEET 12 OF 30	



NOTES:

1. THE TOWN OF BRATTLEBORO INTENDS TO MAKE IMPROVEMENTS TO THE BAST PARKING LOT AS PART OF THE PATHWAY PROJECT. THE APPROPRIATE PAY ITEM NUMBERS ARE IDENTIFIED ON THE QUANTITY SHEET UNDER THE NON-PARTICIPATING COLUMN.
2. THE IMPROVEMENTS INCLUDE REMOVAL AND REPLACEMENT OF THE IDENTIFIED PARKING LOT LIGHT POLES AND FIXTURES AND ASSOCIATED INSTALLATION OF ELECTRICAL CONDUIT, INSTALLATION OF NEW PAVEMENT MARKINGS AND AN OVERLAY OF NEW BITUMINOUS CONCRETE PAVEMENT. THE WORK SHALL BE LIMITED TO EXISTING PARKING LOT AREAS AS INDICATED ON THIS SHEET.
3. THE EXISTING PARKING LOT LIGHTS INDICATED ON THE PLAN SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. PAYMENT FOR THE REMOVAL OF THE EXISTING LIGHTS AND ALL ASSOCIATED HARDWARE WILL BE PAID FOR UNDER ITEM NUMBER 679.25 "REMOVE AND RESETTING LIGHT POLE (REMOVE ONLY)".
4. THE LOCATION OF THE NEW PARKING LOT LIGHTS SHOWN ON THIS SHEET ARE APPROXIMATE. THE FINAL LOCATION WILL BE DETERMINED BY THE RESIDENT ENGINEER.
5. THE PARKING LIGHT POLES AND FIXTURES WILL BE THE SAME AS THE NEW PATHWAY LIGHTS, AS DETAILED ON SHEET 22, EXCEPT THE CONCRETE BASE WILL HAVE A ONE-METER REVEAL. THE CONTRACTOR SHALL EXCAVATE TRENCHES FOR THE NEW ELECTRICAL CONDUIT LINES, INSTALL THE NEW CONDUIT AND BACKFILL AND COMPACT THE TRENCHES. THE CONDUIT TRENCH DETAIL (WIDTH, DEPTH, BACKFILL MATERIAL) WILL BE SIMILAR TO THAT SHOWN ON SHEET 22.
6. UPON COMPLETION OF ALL SUBSURFACE WORK AND LIGHT POLE INSTALLATION, THE CONTRACTOR SHALL INSTALL A NEW BITUMINOUS CONCRETE PAVEMENT OVERLAY. THE LIMITS OF THE NEW OVERLAY ARE SHOWN ON THIS SHEET AND ARE INTENDED TO MATCH THE EXISTING EDGE OF PAVEMENT WITHIN THE DESIGNATED PARKING AREA TO BE OVERLAYED. THE RESIDENT ENGINEER WILL DETERMINE THE FINAL LOCATION OF OVERLAY.
7. NO COLD PLANING IS TO BE CONDUCTED IN THE OVERLAY AREA. THE OVERLAY WEARING COURSE SHALL BE A 40 MM TYPE ~~IV~~ II. THE BINDER COURSE SHALL BE AN APPROXIMATE 15 MM LEVELING LAYER, TYPE ~~IV~~ II. THE TOTAL THICKNESS OF THE NEW OVERLAY SHALL BE 55 MM.
8. LEVELING ASPHALT SHALL BE USED TO SHAPE THE PARKING LOT, TO ELIMINATE ANY SIGNIFICANT DEPRESSIONS OR RISES AND TO CREATE A UNIFORM SLOPING GRADE.
9. EMULSIFIED ASPHALT SHALL BE APPLIED ON THE EXISTING PAVEMENT SURFACE PRIOR TO INSTALLATION OF THE LEVELING COURSE AT THE RATE OF 0.12 L / SM, OR AS DIRECTED BY THE RESIDENT ENGINEER.
10. UPON INSTALLATION OF THE OVERLAY, THE CONTRACTOR SHALL INSTALL NEW PAVEMENT MARKINGS. THESE MARKINGS SHALL INCLUDE NEW LINE STRIPES FOR PARKING LOT SPACES AND SEVERAL DIRECTIONAL ARROWS. THE PARKING SPACES SHOWN ON THIS SHEET ARE APPROXIMATE AND THE RESIDENT ENGINEER, WORKING WITH THE CONTRACTOR, WILL LAY OUT THE NEW PARKING LOT LINES AND DIRECTIONAL ARROWS. THE NEW PARKING LOT LINES SHALL BE DURABLE 100 MM WHITE LINES.

EXISTING
- EDGE OF PAVEMENT
- EDGE OF BROOK
- BUILDING
- TIE POINT
- TREE
- STUMP
- UTILITY POLE
- EXISTING LIGHT
- MANHOLE
- SIGN
- CULVERT
- CATCH BASIN
- ROW LINE
- STONE WALL
- SEWER LINE
- AERIAL E&T AERIAL E+T

PROPOSED
- LIMITS OF CONSTRUCTION
- PATHWAY LIGHT

DATUM
VERTICAL NVD 88
HORIZONTAL NAD 83

BAST PARKING LOT IMPROVEMENTS

5 0 5 10 15 20
SCALE IN METERS
SCALE: 1:250

PLOTTED: 03/11/2004

DuBois & King inc.
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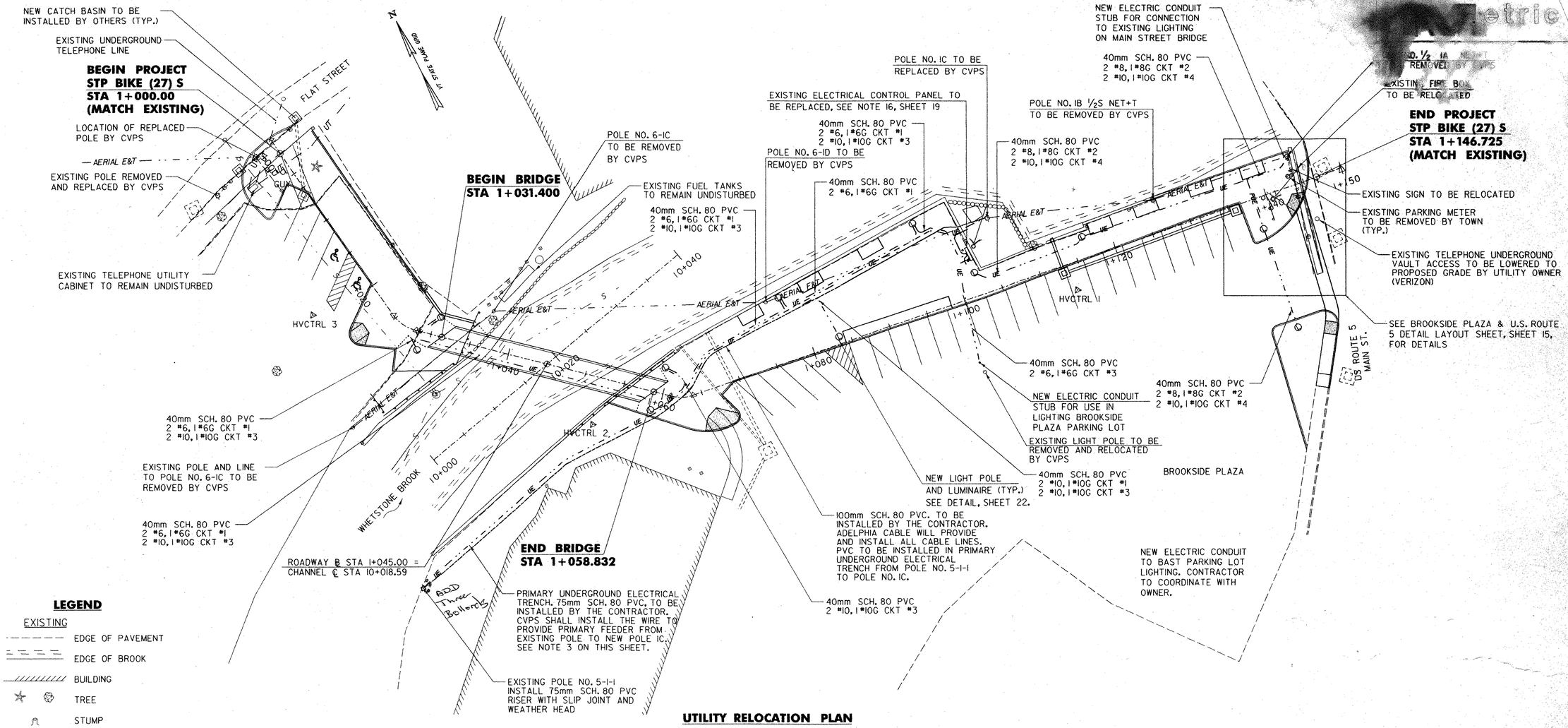
TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
BAST PARKING LOT IMPROVEMENTS

DRAWN BY	DATE
SJB	FEB. 2004
CHECKED BY	PROJ. NO.
JDA	R16544
PROJ. ENG.	DRAW. NO.
JDA	1441

SHEET 13 OF 30



LEGEND

EXISTING

- EDGE OF PAVEMENT
- EDGE OF BROOK
- BUILDING
- TREE
- STUMP
- TIE POINT
- UTILITY POLE
- MANHOLE
- SIGN
- CULVERT
- CATCH BASIN
- STONE WALL
- SEWER LINE
- AERIAL E+T

PROPOSED

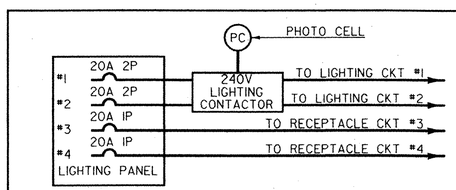
- PATHWAY LIGHT
- CATCH BASIN
- UE ELECTRICAL CONDUIT
- CABLE CONDUIT

DATUM

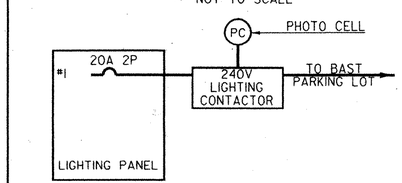
VERTICAL NVD 88
HORIZONTAL NAD 83

UTILITY RELOCATION PLAN

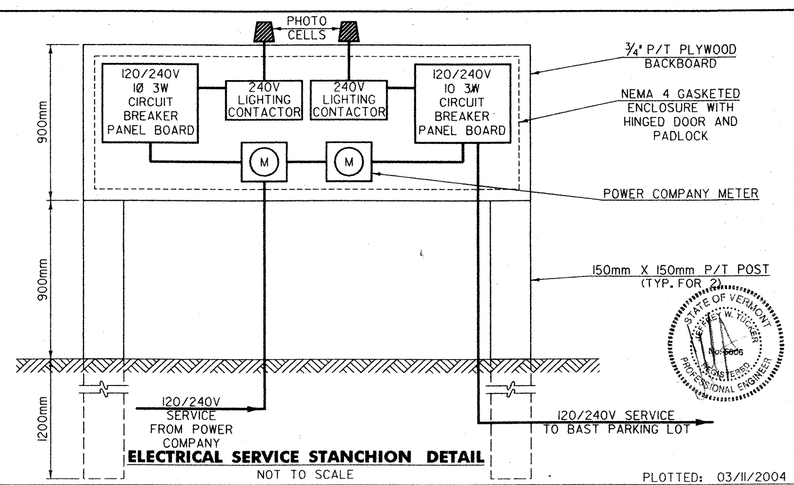
5 0 5 10 15 20
SCALE IN METERS
SCALE: 1:250



PATHWAY ELECTRICAL LIGHTING SINGLE LINE DIAGRAM
NOT TO SCALE



BAST PARKING LOT ELECTRICAL LIGHTING SINGLE LINE DIAGRAM
NOT TO SCALE



ELECTRICAL SERVICE STANCHION DETAIL
NOT TO SCALE

PLOTTED: 03/11/2004

NEW LIGHT POLE AND LUMINAIRE

STA. 1+028.769, 2.339 RT
STA. 1+030.664, 2.400 LT
STA. 1+058.969, 2.257 RT
STA. 1+059.495, 3.289 LT
STA. 1+077.999, 8.042 LT
STA. 1+083.603, 0.934 LT
STA. 1+096.970, 11.275 LT
STA. 1+102.285, 2.916 LT
STA. 1+116.485, 2.674 LT
STA. 1+138.359, 3.908 RT
STA. 1+138.359, 16.982 RT

NOTE:

1. SEE SHEET 19 FOR UTILITY RELOCATION NOTES.
2. STATIONS ARE GIVEN IN KILOMETERS, OFFSETS ARE GIVEN IN METERS AND DIMENSIONS ARE GIVEN IN MILLIMETERS.
3. CVPS IS RESPONSIBLE FOR OBTAINING NECESSARY EASEMENTS FOR WORK ASSOCIATED WITH THE PRIMARY UNDERGROUND ELECTRICAL TRENCH.
4. ELECTRICAL CONDUCTOR SIZE REFERS TO AWG WIRE SIZE.

STATE OF VERMONT — STEPHEN W. HUDEK — No. 5605 — REGISTERED PROFESSIONAL ENGINEER

DuBois & King inc.
engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT

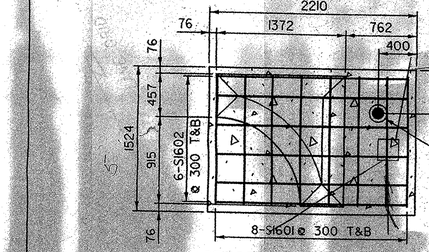
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S

UTILITY RELOCATION SHEET

DRAWN BY	DATE
SJB	FEB. 2004
CHECKED BY	PROJ. NO.
	RI6544
PROJ. ENG.	DRAW. NO.
JDA	11 4/6

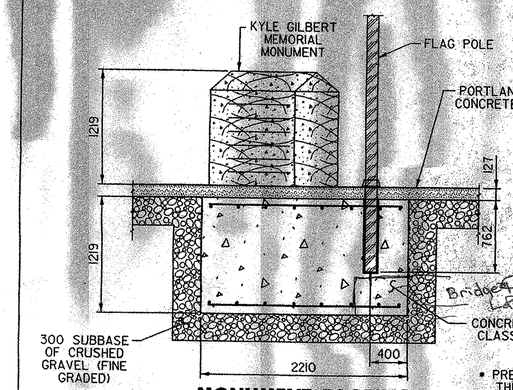
SHEET 14 OF 30

Metric



MONUMENT FOOTING PLAN

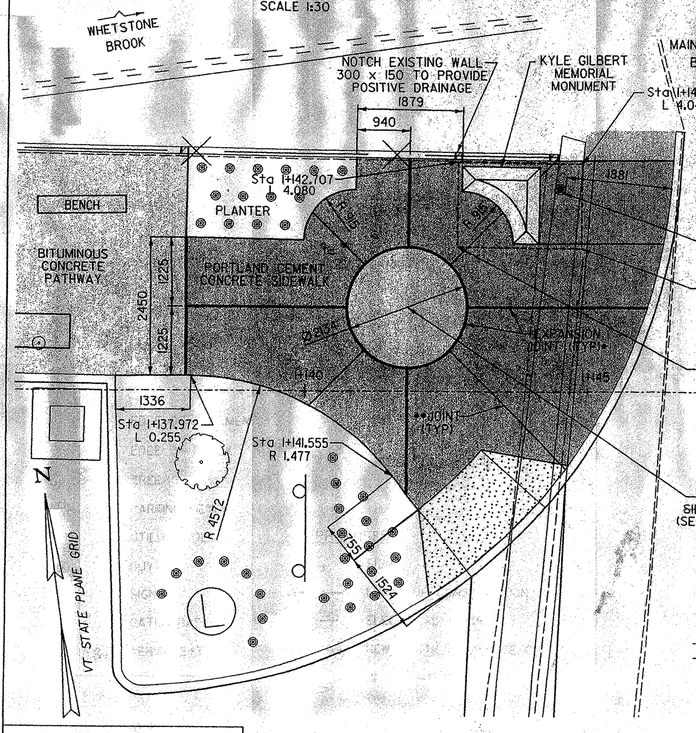
SCALE 1:30



MONUMENT FOOTING ELEVATION

SCALE 1:30

• PREFORMED JOINT FILLER 6mm THICK SHALL BE INSTALLED IN THE EXPANSION JOINTS. JOINTS SHALL EXTEND FOR THE FULL DEPTH OF WALKWAY.

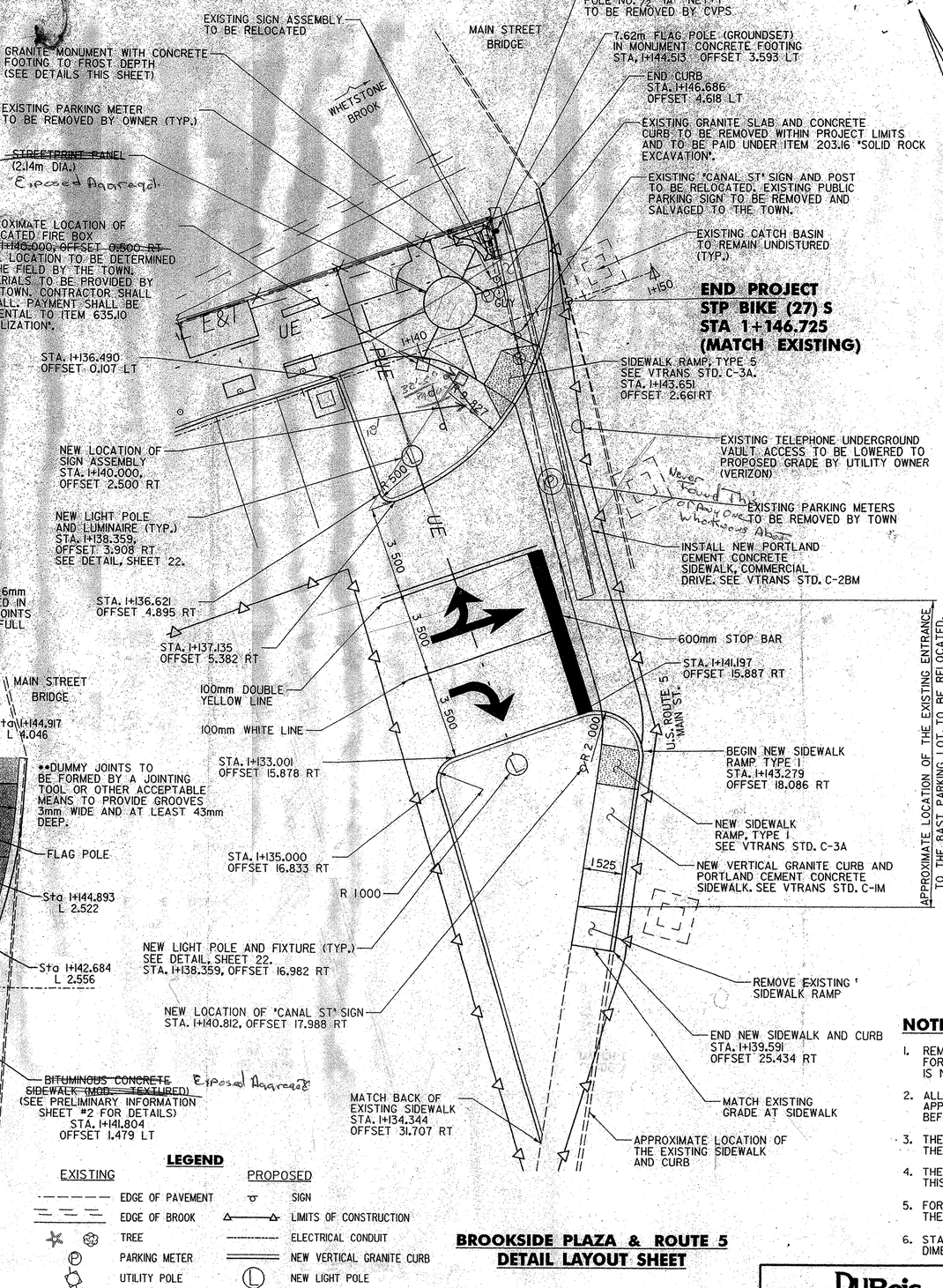


MONUMENT & STREETPRINT LAYOUT

0 1 2 3 4 5

SCALE = 1:50

DATUM	
VERTICAL	NVD 88
HORIZONTAL	NAD 83



LEGEND

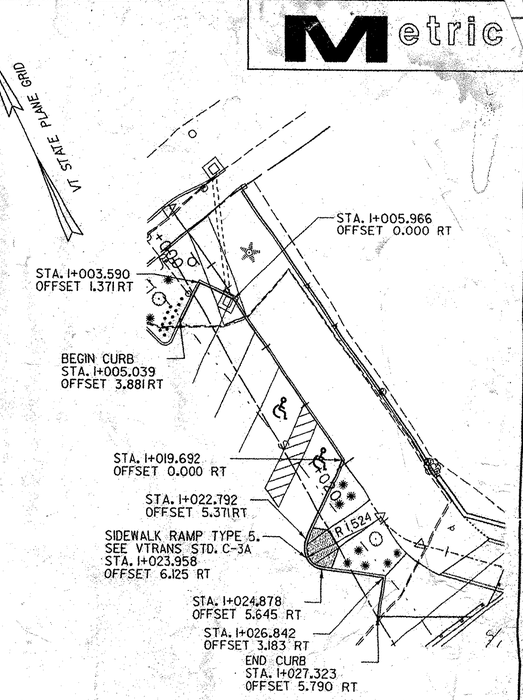
EXISTING		PROPOSED	
	EDGE OF PAVEMENT		SIGN
	EDGE OF BROOK		LIMITS OF CONSTRUCTION
	TREE		ELECTRICAL CONDUIT
P	PARKING METER		NEW VERTICAL GRANITE CURB
	UTILITY POLE	L	NEW LIGHT POLE
GUY	GUY		
	SIGN		
	CATCH BASIN		
E&T	AERIAL E+T		

BROOKSIDE PLAZA & ROUTE 5 DETAIL LAYOUT SHEET

0 1 2 4 6 8 10

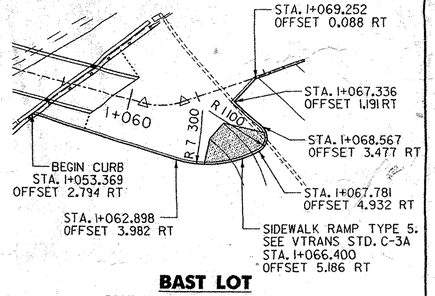
SCALE = 1:100

PLOTTED: 09/10/2004



PRESTON LOT CURB LAYOUT DETAIL

SCALE 1:200



BAST LOT CURB LAYOUT DETAIL

SCALE 1:200

NOTES:

1. REMOVAL OF THE EXISTING SIDEWALK ALONG MAIN STREET NECESSARY FOR CONSTRUCTION SHALL BE COMPLETED PRIOR TO THIS PROJECT AND IS NOT PAID FOR THROUGH THIS PROJECT.
2. ALL THE LOCATIONS OF SIGNS, LIGHT POLES AND THE FIRE BOX ARE APPROXIMATE AND THE FINAL LOCATION SHALL BE DECIDED BY THE TOWN BEFORE PLACEMENT.
3. THE EXISTING PARKING LOT SIGN SHALL BE REMOVED AND SALVAGED TO THE TOWN.
4. THE EXISTING CANAL STREET SIGN SHALL BE RELOCATED AS SHOWN ON THIS SHEET.
5. FOR DETAILS ON THE REMOVAL OF THE POLE ½ IA, SEE SHEET 14 AND THE UTILITY RELOCATION NOTES ON SHEET 19 FOR DETAILS.
6. STATIONS ARE GIVEN IN KILOMETERS. OFFSETS ARE GIVEN IN METERS AND DIMENSIONS ARE GIVEN IN MILLIMETERS.

DuBois & King inc.

engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT

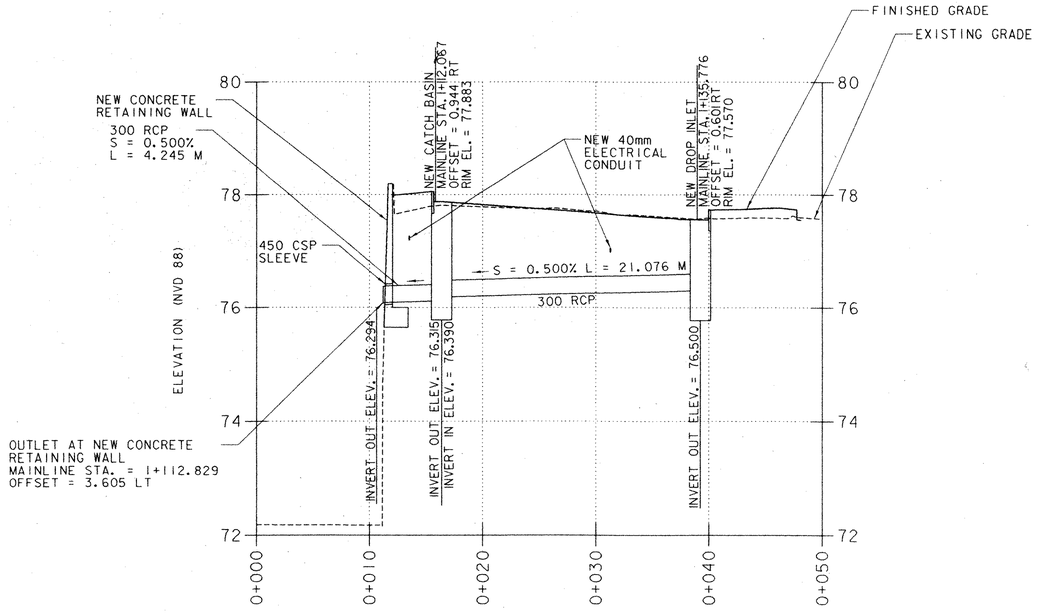
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S

BROOKSIDE PLAZA & U.S. ROUTE 5 DETAIL LAYOUT SHEET

DRAWN BY	DATE
SJB/PGJ	9/03/04
CHECKED BY	PROJ. NO.
	R16544
PROJ. ENG.	DRAW. NO.
SHEET 15 OF 30	

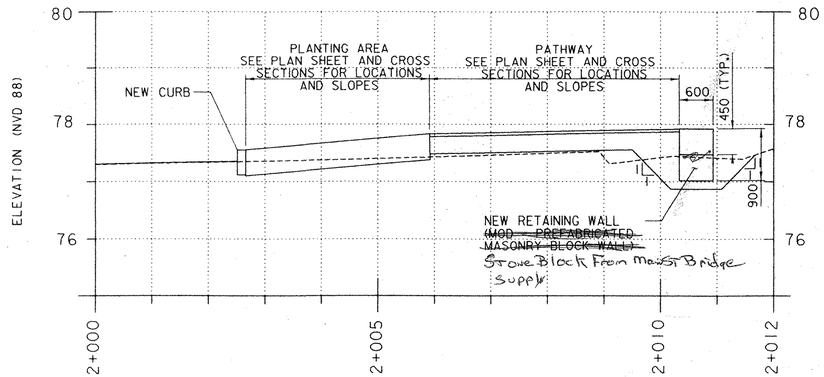
Updated at 1 Minutes ago 09/10/2004 04:11:48 PM

Metric



STATION ALONG DRAINAGE PIPE BASELINE (METERS)

DRAINAGE PROFILE

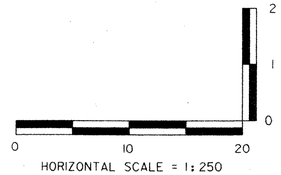


STATION AT RETAINING WALL (MOD. - PREFABRICATED MASONRY BLOCK WALL) (METERS)

MASONRY BLOCK RETAINING WALL TYPICAL SECTION

NOTES:

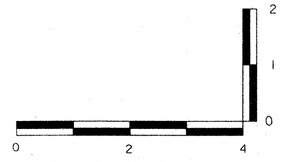
1. ALL CATCH BASIN AND DROP INLET RIM ELEVATIONS ARE TO BE 10 mm BELOW FINAL GRADE PAVEMENT ELEVATIONS.
2. INLET INVERT ELEVATIONS FOR NEW CATCH BASIN AND DROP INLET SHALL BE A MINIMUM OF 75 mm HIGHER IN ELEVATION THAN THE OUTLET INVERT.
3. DROP INLET GRATE AT STA. 1+135.776 SHALL BE TYPE E. CATCH BASIN GRATE AT STA. 1+112.067 SHALL BE TYPE D.
4. OFFSETS AND ELEVATIONS ARE GIVEN IN METERS.
5. 450 CSP SLEEVE TO BE PAID INCIDENTAL TO CONCRETE FOR NEW RETAINING WALL, ITEM 501.34 "CONCRETE, HIGH PERFORMANCE CLASS B".



HORIZONTAL SCALE = 1:250
VERTICAL SCALE = 1:50

NOTES: USED Stone Block Agreed by All

1. MANUFACTURER OF PREFABRICATED MASONRY BLOCK WALL TO BE APPROVED BY TOWN PRIOR TO INSTALLATION.
2. WALL SHALL CONSIST OF FREESTANDING BLOCKS WHICH CAN CARRY THE WEIGHT OF THE EARTH BEHIND THE WALL.
3. MASONRY BLOCKS SHALL BE GRAY IN COLOR AND HAVE A TEXTURED SURFACE.
4. HEIGHT ABOVE GRADE VARIES AND IS DEPENDANT ON ELEVATION BEHIND WALL.



HORIZONTAL SCALE = 1:250
VERTICAL SCALE = 1:50

DATUM
VERTICAL NVD 88
HORIZONTAL NAD 83

STATE OF VERMONT — STEVEN J. BUSER — 10306 — REGISTERED PROFESSIONAL ENGINEER

PLOTTED: 03/11/2004

DuBois & King inc.
engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
DRAINAGE & MASONRY BLOCK RETAINING WALL PROFILE SHEET

DRAWN BY	DATE
SJB	FEB. 2004
CHECKED BY	PROJ. NO.
	R16544
PROJ. ENG.	DRAW. NO.
JDA	11444

SHEET 16 OF 30

Metric

BEGIN PROJECT
STP BIKE (27) S
STA 1+000.00
(MATCH EXISTING)

END PROJECT
STP BIKE (27) S
STA 1+146.725
(MATCH EXISTING)

BEGIN BRIDGE
STA 1+031.400
F.G. ELEV. 78.052

END BRIDGE
STA 1+058.832
F.G. ELEV. = 78.549

PLANTING AREA 1, SEE DETAIL FOR SPECIFIC PLANTINGS. AREA TO BE TOPSOILED, FERTILIZED AND MULCHED.

EXISTING TREE TO BE REMOVED

PLANTING AREA 2, SEE DETAIL FOR SPECIFIC PLANTINGS. AREA TO BE TOPSOILED, FERTILIZED AND MULCHED.

PLANTING AREA 3, SEE DETAIL FOR SPECIFIC PLANTINGS. AREA TO BE TOPSOILED, FERTILIZED AND MULCHED.

PLANTING AREA 4. CURBED ISLAND TO BE TOPSOILED, FERTILIZED AND MULCHED.

FLAT STREET

HVCTRL 3

HVCTRL 2

HVCTRL 1

PT STA 1+028.076

PC STA 1+024.547

P.I. STA. 1+026.389 BACK
STA 1+026.234 AHEAD

PT STA 1+065.916

PC STA 1+061.023

P.I. STA. 1+062.528 BACK =
STA 1+062.441 AHEAD

WHETSTONE BROOK

ROADWAY ℄ STA 1+045.00 =
CHANNEL ℄ STA 10+018.59

PLANTER "A"

PLANTER "B"

PLANTER "C"

PLANTER "D"

BROOKSIDE PLAZA

MAIN ST. U.S. ROUTE 5

TO PUTNEY

TO I-91

STA 1+150.000 POE

1+040

1+060

1+080

1+100

1+120

1+140

1+150

10+000

10+020

PLANTING AREA 1
SCALE 1:100

FREMANII MAPLE

COMPTONIA (SWEETFERN) (TYP.)

DAYLILIES (STELLA D' ORO) 450 ON-CENTER SPACING BETWEEN PLANTINGS (TYP.).

Sign Mounted on This Pole

1500 (TYP.)

500 (TYP.)

450 (TYP.)

PLANTING AREA 2
SCALE 1:100

COMPTONIA (SWEETFERN) 1000 ON-CENTER SPACING BETWEEN PLANTINGS (TYP.).

FREMANII MAPLE

500 MIN.

1500

1000

500 (TYP.)

PLANTING AREA 3
SCALE 1:100

FREMANII MAPLE

16 TINKERBELL LILACS 450 ON-CENTER SPACING BETWEEN PLANTINGS (TYP.)

8 DAYLILIES (STELLA D' ORO) 450 ON-CENTER SPACING BETWEEN PLANTINGS (TYP.)

1500

500 (TYP.)

LANDSCAPING PLAN

5 0 5 10 15 20

SCALE IN METERS
SCALE: 1:250

PLANTER "A" AND "C"
SCALE 1:50

EXISTING CONCRETE WALL

PLANTER "A" TO CONTAIN TINKERBELL LILACS.
PLANTER "C" TO CONTAIN DAYLILIES (STELLA D' ORO). 450 ON-CENTER SPACING BETWEEN PLANTINGS (TYP.)

250 (TYP.)

PLANTER "B"
SCALE 1:50

DAYLILIES (STELLA D' ORO) 450 ON-CENTER SPACING BETWEEN PLANTINGS (TYP.)

5 000 (TYP.)

COMPTONIA (SWEETFERN) 1000 ON-CENTER SPACING BETWEEN PLANTINGS (TYP.)

FREMANII MAPLE (TYP.)

250 (TYP.)

2 000 (TYP.)

PLANTER "D"
SCALE 1:50

EXISTING CONCRETE WALL

ORNAMENTAL GRASS 600 ON-CENTER SPACING BETWEEN PLANTINGS (TYP.)

450 TYP

PLANTING AREA 4
SCALE 1:100

DAYLILIES (STELLA D' ORO) 450 ON-CENTER SPACING BETWEEN PLANTINGS (TYP.)

500 (TYP.)

3 000

2 500

2 500

2 500

DEUTZIA GRACILIS 'NIKKO'

FREMANII MAPLE

ULMUS PARVAFOLIA 'ATHENA'

TAXUS X M. DENSIFORMIS

LEGEND

EXISTING

- EDGE OF PAVEMENT
- EDGE OF BROOK
- BUILDING
- TIE POINT
- TREE
- STUMP
- UTILITY POLE
- MANHOLE
- SIGN
- CULVERT
- CATCH BASIN
- ROW LINE
- STONE WALL
- SEWER LINE — S —
- AERIAL E+T — AERIAL E&T —

PROPOSED

- SIGN
- CULVERT
- NEW STEEL FENCE
- BENCH
- GRANITE BLOCK
- STEEL BOLLARD
- PATHWAY LIGHT
- CATCH BASIN
- BITUMINOUS CONCRETE SIDEWALK (MOD. - TEXTURED) / BITUMINOUS CONCRETE PAVEMENT BOUNDARY

DATUM

VERTICAL	NVD 88
HORIZONTAL	NAD 83

NOTES:

1. PLANTINGS SHALL BE INSTALLED BY CONTRACTOR. ALL PLANTINGS, EXCEPT ORNAMENTAL GRASS, SHALL BE BALLED AND BURLAPPED (B&B). ALL PLANTINGS SHALL CONFORM TO SECTION 755.08 OF THE AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION 2001.
2. IF SPECIFIED PLANTINGS ARE NOT AVAILABLE AT THE TIME OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE ALTERNATE PLANTINGS WITH THE TOWN OF BRATTLEBORO.
3. ALL PLANTERS SHALL HAVE TOPSOIL DEPTHS AS SPECIFIED ON THE PLANTER DETAIL, SHEET 23. PLANTERS TO BE FERTILIZED AND MULCHED. MULCHING SHALL BE PAID UNDER PAY ITEM 651.27 "CEDAR BARK MULCH" AND THE COLOR SHALL BE DECIDED BY THE TOWN.
4. ORNAMENTAL GRASS TYPE TO BE APPROVED BY THE TOWN OF BRATTLEBORO PRIOR TO PLANTING.
5. DEPTHS OF TOPSOIL FOR PLANTERS AND PLANTING AREAS ARE SHOWN ON SHEET 23.
6. MAINTENANCE OR UPKEEP TO PLANTINGS AFTER COMPLETION OF PROJECT SHALL BE THE RESPONSIBILITY OF THE TOWN OF BRATTLEBORO.
7. STATIONS ARE GIVEN IN KILOMETERS AND DIMENSIONS ARE GIVEN IN MILLIMETERS.

STATE OF VERMONT — JEFFREY W. WILLIAMS — No. 6905 — REGISTERED PROFESSIONAL ENGINEER

Note DEC 04
Plantings To Be Reviewed by Committee and List Available to Early Feb

PLOTTED: 03/11/2004

DuBois & King inc.
engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT

WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S

LANDSCAPING PLAN

DRAWN BY SJB	DATE FEB. 2004
CHECKED BY	PROJ. NO. R16544
PROJ. ENG. JDA	DRAW. NO. 11445

SHEET 17 OF 30

Metric

NOTES:

1. CONTRACTOR TO MAINTAIN CIRCULATION OF TRAFFIC IN THE PRESTON MUNICIPAL PARKING LOT DURING CONSTRUCTION.
2. ALL TRAFFIC CONTROL MEASURES AND DEVICES TO BE INSTALLED PRIOR TO ANY CONSTRUCTION AND SHALL MEET THE REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD 2003).
3. CONTRACTOR SHALL ALLOW THE NECESSARY ACCESS FOR DELIVERY TRUCKS AT THE BAST CORPORATION BUILDING THROUGHOUT THE CONSTRUCTION PERIOD.
4. ALL EXISTING PARKING NOT SHOWN SHALL REMAIN UNDISTURBED DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL, INCLUDING SIGNING, BARRICADES, NOTIFICATION TO LOCAL OFFICIALS AND PROPERTY OWNERS OF SCHEDULED DELAYS AND/OR CLOSURES, AND ANY OTHER ITEMS DEEMED NECESSARY BY THE ENGINEER. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE APPLICABLE VAOT "E-SERIES" STANDARD DRAWINGS. THIS WORK SHALL BE PAID UNDER ITEM 641.10 "TRAFFIC CONTROL". FLAGGERS ARE TO BE PAID FOR UNDER ITEM 630.15 "FLAGGERS".
6. EXISTING TEMPORARY BRIDGE TO BE REMOVED BY OWNER. BRIDGE SHALL BE LEFT IN PLACE AS LONG AS PRACTICAL FOR PEDESTRIAN ACCESS BETWEEN THE PRESTON MUNICIPAL PARKING LOT AND BROOKSIDE PLAZA PARKING LOT. CONTRACTOR MUST GIVE THE TOWN ONE MONTH'S WRITTEN NOTICE BEFORE THE BRIDGE NEEDS TO BE REMOVED. DURING THIS TIME, THE TOWN SHALL COORDINATE THE REMOVAL OF THE EXISTING TEMPORARY BRIDGE WITH THE CONTRACTOR.
7. STATIONS ARE GIVEN IN KILOMETERS AND DIMENSIONS ARE GIVEN IN MILLIMETERS.

G20-2A
END ROAD WORK

BEGIN PROJECT
STP BIKE (27) S
STA 1+000.00
(MATCH EXISTING)

VC 839
SIDE ROAD WORK AHEAD

VT STATE PLANE GRID N

AERIAL E&T
150 000
FLAT STREET
90 000
UTILITY POLE
LATCHIS BUILDING
G20-2A
END ROAD WORK
PRESTON MUNICIPAL PARKING LOT
NEW PREFABRICATED MULTI-MODAL BRIDGE
S 1+020
S 1+040
10+040
10+020
10+000
WHETSTONE BROOK
VC 839
SIDE ROAD WORK 500 FEET
1+060
1+080
1+100
1+120
1+140
1+150
APPROXIMATE LOCATION OF EXISTING TEMPORARY BRIDGE, TO BE REMOVED BY OWNER, SEE NOTE 6, THIS SHEET.
BAST CORPORATION
REFLECTORIZED PLASTIC DRUMS AT 2M O.C.
LIMITS OF CONSTRUCTION
BROOKSIDE PLAZA PARKING LOT
5 190
2 470
TEMPORARY 100 mm WHITE LINES (TEMPORARY PARKING)
50 000
G20-2A
END ROAD WORK
VC 839
SIDE ROAD WORK AHEAD
MAIN ST. U.S. ROUTE 5
50 000
G20-2A
END ROAD WORK
END PROJECT
STP BIKE (27) S
STA 1+146.725
(MATCH EXISTING)
VC 839
SIDE ROAD WORK AHEAD
50 000
TO HINSDALE, NEW HAMPSHIRE
G20-2A
END ROAD WORK
VC 839
SIDE ROAD WORK AHEAD

LEGEND

EXISTING
- EDGE OF PAVEMENT
- EDGE OF BROOK
- BUILDING
- TIE POINT
- TREE
- STUMP
- UTILITY POLE
- MANHOLE
- SIGN
- CULVERT
- CATCH BASIN
- STONE WALL
- S — SEWER LINE
- AERIAL E&T — AERIAL E+T

PROPOSED
- SIGN
- CULVERT
- LIMITS OF CONSTRUCTION
- TEMPORARY TRAFFIC BARRIER
- TEMPORARY PAVEMENT MARKING

DATUM
VERTICAL NVD 88
HORIZONTAL NAD 83

TRAFFIC CONTROL PLAN

0 10 20
SCALE 1:250

STATE OF VERMONT — JEFFREY S. JOSLYN — NO. 6586 — REGISTERED PROFESSIONAL ENGINEER

PLOTTED: 03/11/2004

DuBois & King inc.
engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
TRAFFIC CONTROL SHEET

DRAWN BY SJB	DATE FEB. 2004
CHECKED BY Jeff	PROJ. NO. RI6544
PROJ. ENG. SDA	DRAW. NO. 11446

SHEET 18 OF 30

Metric

GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, DATED 2001, AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17TH EDITION, DATED 2002, AND ITS LATEST REVISIONS.
2. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL, AND ARE GIVEN AT 20 DEGREES CELSIUS, UNLESS NOTED OTHERWISE.
3. THE CONTRACTOR SHALL REVIEW AND UNDERSTAND ALL APPLICABLE ENVIRONMENTAL PERMITS AND ENSURE THAT ALL CONSTRUCTION CONDITIONS ARE MET.
4. A THOROUGH INSPECTION BY THE RESIDENT ENGINEER WILL BE MADE OF ALL AREAS AT THE TIME OF CONSTRUCTION. THE CONTRACTOR SHALL SUPPLY ANY MATERIALS REQUIRED FOR THE INSPECTION. THE COST OF MATERIALS AND LABOR FOR THE INSPECTION SHALL BE SUBSIDIARY TO ITEM 635.10, 'MOBILIZATION'.
5. NO BACKFILL WILL BE PLACED AGAINST ANY STRUCTURAL ELEMENTS UNTIL THE RESIDENT ENGINEER HAS APPROVED THIS WORK. THE HEIGHT OF BACKFILL BEHIND THE ABUTMENTS SHALL BE LIMITED TO THE BRIDGE SEAT ELEVATIONS UNTIL THE NEW BRIDGE HAS BEEN SET. Waived To Permit Setting of Ist Member
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO PRIVATE OR PUBLIC PROPERTY CAUSED BY THE CONTRACTOR, AT THE SOLE COST TO THE CONTRACTOR.
7. ANY PAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE SAW CUT, AND THE PAVEMENT SHALL BE REPLACED TO MATCH FINISHED GRADE. PAYMENT FOR THIS WORK SHALL BE SUBSIDIARY TO PAY ITEM 406.25, 'BITUMINOUS CONCRETE PAVEMENT'.
8. THE CONTRACTOR, AT THE EXPENSE OF THE CONTRACTOR, SHALL REPAIR DAMAGE TO CONCRETE WALLS RESULTING FROM IMPROPER BACKFILLING.
9. ITEM 514.10, 'WATER REPELLENT', SHALL BE APPLIED TO ALL EXPOSED CONCRETE ON THE BRIDGE SUBSTRUCTURE AND THE NEW CONCRETE RETAINING WALL.
10. ALL CONCRETE SHALL BE HIGH PERFORMANCE CONCRETE, CLASS B UNLESS OTHERWISE SPECIFIED.
11. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 25mm BY 25mm, UNLESS OTHERWISE NOTED.
12. JOINTS AND SCORE MARKS IN CONCRETE SHALL BE CONSTRUCTED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
13. KEY IN CONSTRUCTION JOINTS SHALL BE MONOLITHIC AND CONTINUOUS FOR THE FULL LENGTH OF THE JOINT UNLESS OTHERWISE INDICATED. ANY UPWARD KEY SHALL BE PLACED INTEGRALLY WITH THE CONCRETE BELOW THE JOINT.
14. ALL NEW STRUCTURAL STEEL SHALL BE AS SPECIFIED BY THE MANUFACTURER, UNLESS OTHERWISE NOTED.
15. ANY LAWN AREAS DISTURBED DURING CONSTRUCTION SHALL BE REGRADED WITH TOPSOIL, SEEDED AND MULCHED. PAYMENT FOR THIS WORK SHALL BE SUBSIDIARY TO THE APPLICABLE ITEMS.
16. THE OWNER WILL REMOVE THE EXISTING PARKING METERS LOCATED NEAR THE MAIN STREET SIDEWALK. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND RELOCATION OF THE EXISTING TRAFFIC SIGN ASSEMBLY LOCATED NEAR STA 1+144 LEFT. THE LOCATION OF THE RELOCATED SIGN ASSEMBLY WILL BE NEAR STA. 1+140, RIGHT, AS SHOWN ON THESE PLANS. THE RESIDENT ENGINEER SHALL DETERMINE THE FINAL LOCATION OF THE SIGN ASSEMBLY.
17. PAY ITEM 404.65, 'EMULSIFIED ASPHALT', SHALL BE APPLIED ON ALL PAVED SURFACES TO BE PAVED AT THE RATE OF 0.12 L/SM.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MAINTAINING THE BASELINE THROUGHOUT THE PROJECT.
19. THE CONTRACTOR SHALL COORDINATE WITH THE TOWN OF BRATTLEBORO FOR SPECIFIC ACCESS TO THE BRIDGE SITE FROM US ROUTE 5 AND/OR FLAT STREET PRIOR TO MOBILIZATION.
20. BACKFILL AGAINST A WATERPROOFED SURFACE SHALL BE PLACED CAREFULLY TO AVOID DAMAGE TO THE WATERPROOFING MATERIAL.
21. ALL EXISTING PAVEMENT IN THE PROJECT LIMITS OF THE NEW PATHWAY SHALL BE REMOVED AND DISPOSED OF UNDER PAY ITEM 203.15, 'COMMON EXCAVATION'.
22. ALL WORK ASSOCIATED WITH INSTALLING THE BITUMINOUS CONCRETE PAVEMENT (TEXTURED) AT THE LOCATIONS SHOWN ON THESE PLANS SHALL BE PAID UNDER PAY ITEM 618.15, 'BITUMINOUS CONCRETE SIDEWALK (MOD. - TEXTURED)'. THE CONTRACTOR SHALL USE STREETPRINT PAVEMENT. THE COLOR SHALL BE BRICK AND THE STYLE SHALL BE OFFSET BRICK.
23. WORK ASSOCIATED WITH PATHWAY CONSTRUCTION, INCLUDING THE NEW PARKING IN THE NORTHERN SEGMENT OF THE BROOKSIDE PLAZA LOT, SHALL BE COMPLETED PRIOR TO THE RECONFIGURATION OF THE ENTRANCE ON U.S. ROUTE 5.

PREFABRICATED MULTI-MODAL BRIDGE NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE FIELD REPRESENTATIVE OF THE PREFABRICATED MULTIMODAL BRIDGE. THE INTENT IS TO HAVE THE SUPPLIER REPRESENTATIVE VISIT THE SITE PRIOR TO INSTALLATION OF THE BRIDGE TO ENSURE THAT ABUTMENTS AND OTHER APPLICABLE CONDITIONS ARE SUITABLE FOR INSTALLATION OF THE BRIDGE.
2. THE BRIDGE SEAT DIMENSIONS SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THESE DIMENSIONS AS NECESSARY TO PROPERLY ACCOMMODATE THE REQUIREMENTS OF THE SPECIFIC TYPE OF PREFABRICATED BRIDGE. ANY ADJUSTMENTS IN THE DIMENSIONS OR ELEVATIONS SHALL BE CLEARLY INDICATED ON FABRICATION DRAWINGS.
3. BRIDGE BEARINGS AND ANCHOR BOLTS ARE NOT SHOWN ON THESE PLANS FOR CLARITY. THE CONTRACTOR SHALL ENSURE THAT ALL ANCHOR BOLT INFORMATION IS CLEARLY INDICATED ON THE FABRICATION DRAWINGS.
4. LUMP SUM COST FOR ITEM 545.20, 'PREFABRICATED MULTI-MODAL BRIDGE', SHALL INCLUDE ALL COSTS FOR MATERIAL AND WORK REQUIRED TO DELIVER, INSTALL AND CONSTRUCT BRIDGE AT SITE.
5. CONDUIT AND NECESSARY BRACKETS AND OTHER ITEMS FOR INSTALLATION OF CONDUIT UNDER BRIDGE TO BE SUPPLIED AND INSTALLED BY BRIDGE SUPPLIER AND TO BE PAID INCIDENTAL TO ITEM 545.20, 'PREFABRICATED MULTI-MODAL BRIDGE'.

UTILITY RELOCATION NOTES

1. THE CONTRACTOR SHALL CONTACT DIG-SAFE AND REQUEST MARKING OF ALL BURIED UTILITIES WITHIN THE PROJECT LIMITS PRIOR TO ANY EXCAVATION.
2. THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS IS APPROXIMATE AND MAY NOT SHOW ALL EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO EXCAVATION ACTIVITIES.
3. NO UTILITIES ARE TO BE DISTURBED WITHOUT PRIOR WRITTEN CONSENT FROM THE UTILITY OWNER. ANY DAMAGE TO EXISTING UTILITIES AS A RESULT OF CONTRACTOR'S OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT THE SOLE COST OF THE CONTRACTOR.
4. THE CONTRACTOR SHALL CONTACT THE TOWN OF BRATTLEBORO PUBLIC WORKS DIRECTOR, CENTRAL VERMONT PUBLIC SERVICE, VERIZON AND ADELPHIA REPRESENTATIVES AND ANY OTHER APPROPRIATE PARTY (IE: PROPANE GAS SUPPLIER FOR BAST BUILDING) RELATIVE TO UTILITIES, ARRANGE AND ATTEND A PRE-CONSTRUCTION MEETING TO DISCUSS UTILITIES AND RELOCATION PRIOR TO EXCAVATION ACTIVITIES OR ORDERING UTILITY RELATED MATERIALS (IE: CONDUIT AND WIRING, MOUNTING BRACKETS, ETC).
5. THE CONTRACTOR IS RESPONSIBLE FOR THE INITIAL AND CONTINUED COORDINATION WITH UTILITY OWNERS TO ENSURE THAT THE SCHEDULING OF UTILITY WORK RESULTS IN THE SMOOTH PROGRESSION OF THE PROJECT.
6. ALL ELECTRICAL WORK PERFORMED BY THE CONTRACTOR SHALL BE DONE BY A QUALIFIED VERMONT LICENSED ELECTRICIAN AND WILL BE IN ACCORDANCE WITH APPLICABLE TOWN, STATE AND NATIONAL ELECTRICAL CODES.
7. THE CONTRACTORS ATTENTION IS DIRECTED TO THE CLOSE PROXIMITY OF THE EXISTING TOWN OWNED SANITARY SEWER LOCATED IN THE PRESTON PARKING LOT TO THE LIMITS OF EXCAVATION FOR ABUTMENT 1. THE CONTRACTOR SHALL DISCUSS THIS ISSUE WITH THE RESIDENT ENGINEER AND CONFIRM HIS ABILITY TO EXCAVATE THE SOIL AND CONSTRUCT THE FOOTING WITHOUT DAMAGING THE SEWER LINE.
8. THE CONTRACTORS ATTENTION IS ALSO DIRECTED TO THE BACKSIDE OF THE BAST BUILDING (FACING WHETSTONE BROOK) IN THE VICINITY OF THE NEW PRIMARY UNDERGROUND ELECTRICAL TRENCH. THE CONTRACTOR IS ADVISED OF THE PRESENCE OF PROPANE GAS AND ELECTRICAL SERVICE LINES AND METERS LOCATED ON THE WALL OF THE BUILDING. THE LOCATION OF THESE SERVICES IS NOT SHOWN ON THE PLANS.
9. THE LOCATION OF THE PRIMARY UNDERGROUND ELECTRICAL TRENCH FROM POLE NO. 5-1-1 (BEHIND THE BAST BUILDING) IS APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH THE APPROPRIATE UTILITY OWNERS (CVPS, PROPANE GAS SUPPLIER, DIG-SAFE) AND IDENTIFYING AND MARKING THE LOCATION OF THIS TRENCH IN THE FIELD PRIOR TO ANY EXCAVATION ACTIVITIES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION AND BACKFILLING OF THE PRIMARY UNDERGROUND ELECTRICAL TRENCH AND FOR ASPHALT PAVING OVER THE TRENCH IN ACCORDANCE WITH THE TYPICAL DETAIL SHOWN IN THESE PLANS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING THE PROPER AMOUNT OF CONDUIT AND MOUNTING BRACKETS FOR POLE 5-1-1 AND NEW POLE 1C. ELECTRICAL WARNING TAPE AND ALL OTHER MATERIALS NECESSARY TO INSTALL THE PRIMARY POWER AS REQUIRED BY CVPS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR CONCRETE CORING AND SEALING A SMALL HOLE THROUGH THE EXISTING CONCRETE WALL AT STATION 1+102 LEFT TO ALLOW PENETRATION OF THE PRIMARY ELECTRICAL POWER CONDUIT TO THE NEW POLE 1C.
11. CENTRAL VERMONT PUBLIC SERVICE COMPANY (CVPS) WILL BE RESPONSIBLE FOR THE SUPPLY AND INSTALLATION OF THE PRIMARY POWER WIRE FROM POLE 5-1-1 TO THE NEW POLE 1C WHICH WILL REPLACE EXISTING POLE 1C. CVPS WILL ALSO BE RESPONSIBLE FOR THE SUPPLY AND INSTALLATION OF NEW POLE 1C.
12. CENTRAL VERMONT PUBLIC SERVICE COMPANY IS RESPONSIBLE FOR THE REMOVAL OF EXISTING UTILITY POLES AND OVERHEAD LINES AND FOR THE PLACEMENT OF NEW UTILITY POLES IDENTIFIED ON THESE PLANS.
13. OVERHEAD LINES BETWEEN THE FOLLOWING UTILITY POLES ARE TO BE REMOVED: NO. 5-1-1 TO NO. 6-1D, NO. 6-1D TO NO. 1C, NO. 1C TO NO. 1B 1/2S NET&T, NO. 1B 1/2S NET&T TO NO. 1/2A NET&T. UTILITY POLES ARE TO REMAIN, BE REPLACED OR REMOVED AS SHOWN ON THE PLANS.
14. POLE 1/2A NET&T SHALL REMAIN IN PLACE AND PROVIDE ELECTRICAL SERVICE UNTIL THE NEW UNDERGROUND ELECTRICAL SERVICE FROM POLE 5-1-1S INSTALLED AND OPERATIONAL. UPON COMPLETION OF THE NEW UNDERGROUND ELECTRICAL SERVICE LINE FROM STA. 1+105 LEFT TO STA. 1+144 LEFT, ELECTRICAL SERVICE WILL BE SWITCHED FROM POLE 1/2A NET&T TO THE NEW UNDERGROUND ELECTRICAL LINE. ONCE SERVICE HAS BEEN TRANSFERRED, POLE 1/2A NET&T SERVICE WILL BE DISCONNECTED AND THE POLE WILL BE REMOVED.
15. THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL NECESSARY MATERIALS TO SWITCH POWER FROM POLE 1/2A NET&T TO THE NEW UNDERGROUND SERVICE. CVPS IS RESPONSIBLE FOR THE REMOVAL OF POLE 1/2A NET&T AND THE ASSOCIATED OVERHEAD LINES.
16. THE EXISTING ELECTRICAL CONTROL PANEL NEAR STA. 1+102 LEFT IS TO BE REMOVED AND REPLACED. 5 NEW ELECTRICAL CIRCUITS SHALL BE UTILIZED TO PROVIDE SERVICE ASSOCIATED WITH THIS PROJECT. SEE LIGHTING PANEL DETAILS SHEET 14. THE PANEL SHALL BE LOCATED NEAR STA. 1+102, LEFT, NEAR THE CORNER OF THE CONCRETE WALLS. THE FINAL LOCATION WILL BE DETERMINED BY THE RESIDENT ENGINEER.
17. ALL WORK ASSOCIATED WITH REMOVAL OF THE EXISTING SUPPLY AND INSTALLATION OF THE NEW ELECTRICAL CONTROL PANEL, INCLUDING, BUT NOT LIMITED TO ALL COMPONENTS ILLUSTRATED ON THE ELECTRICAL SERVICE STANCHION DETAILS AND NOTES AND ALL OTHER WORK AND COMPONENTS NOT SHOWN THAT WILL RESULT IN A COMPLETE AND PROPERLY FUNCTIONING ELECTRICAL POWER STANCHION THAT MEETS APPLICABLE ELECTRICAL CODES SHALL BE PAID FOR UNDER ITEM 679.28 'POWER STANCHION'.
18. ALL TRENCH EXCAVATION AND BACKFILLING FOR PRIMARY AND SECONDARY ELECTRICAL POWER WILL BE PAID FOR UNDER PAY ITEMS 203.31, 'SAND BORROW', 204.20, 'TRENCH EXCAVATION OF EARTH', 301.26 'SUBBASE OF CRUSHED GRAVEL (FINE GRADED)', 406.25 'BITUMINOUS CONCRETE PAVEMENT', 678.21, 'ELECTRICAL CONDUIT' AND 678.23, 'WIRED CONDUIT.' WARNING TAPE, COORDINATION AND COMMUNICATIONS, MOUNTING BRACKETS, CONCRETE CORING AND SEALING AND ALL OTHER WORK NECESSARY TO INSTALL THE ELECTRICAL WORK SHALL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED INCIDENTAL TO THE ABOVE REFERENCED PAY ITEMS.
19. THE CONTRACTORS ATTENTION IS DIRECTED TO THE EXISTING UNDERGROUND CONCRETE TELEPHONE VAULT OWNED BY VERIZON, LOCATED NEAR STA. 1+145 RIGHT. THE EXISTING ACCESS MANHOLE IS LOCATED IN THE SIDEWALK. THE SIDEWALK IS TO BE REMOVED AND CONVERTED TO PART OF THE ENTRANCE INTO THE BAST PARKING LOT. VERIZON REPRESENTATIVES HAVE CONFIRMED THAT THE ACCESS MANHOLE CAN BE LOWERED TO ROAD GRADE ELEVATION AND THE VAULT WILL NOT BE IMPACTED AS A RESULT.
20. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING AND COORDINATING WITH VERIZON OFFICIALS REGARDING THE SCHEDULING OF THIS WORK. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF THE EXISTING CONCRETE SIDEWALK, INCLUDING EXPOSURE OF THE ACCESS MANHOLE SUFFICIENT FOR VERIZON TO LOWER THE ACCESS MANHOLE TO THE NEW ROAD GRADE AND THEN CONSTRUCTION OF THE NEW ENTRANCE. VERIZON IS RESPONSIBLE FOR THE WORK TO LOWER THE ACCESS MANHOLE.

SEEDING FORMULA URBAN AREAS

% WT.	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 WEIGHT 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.

HAY MULCH: TO BE PLACED ON EARTH SLOPES 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.

STATE OF VERMONT — STEVEN W. WENGER — No. 7886 — REGISTERED PROFESSIONAL ENGINEER

PLOTTED: 03/11/2004

DuBois & King inc.
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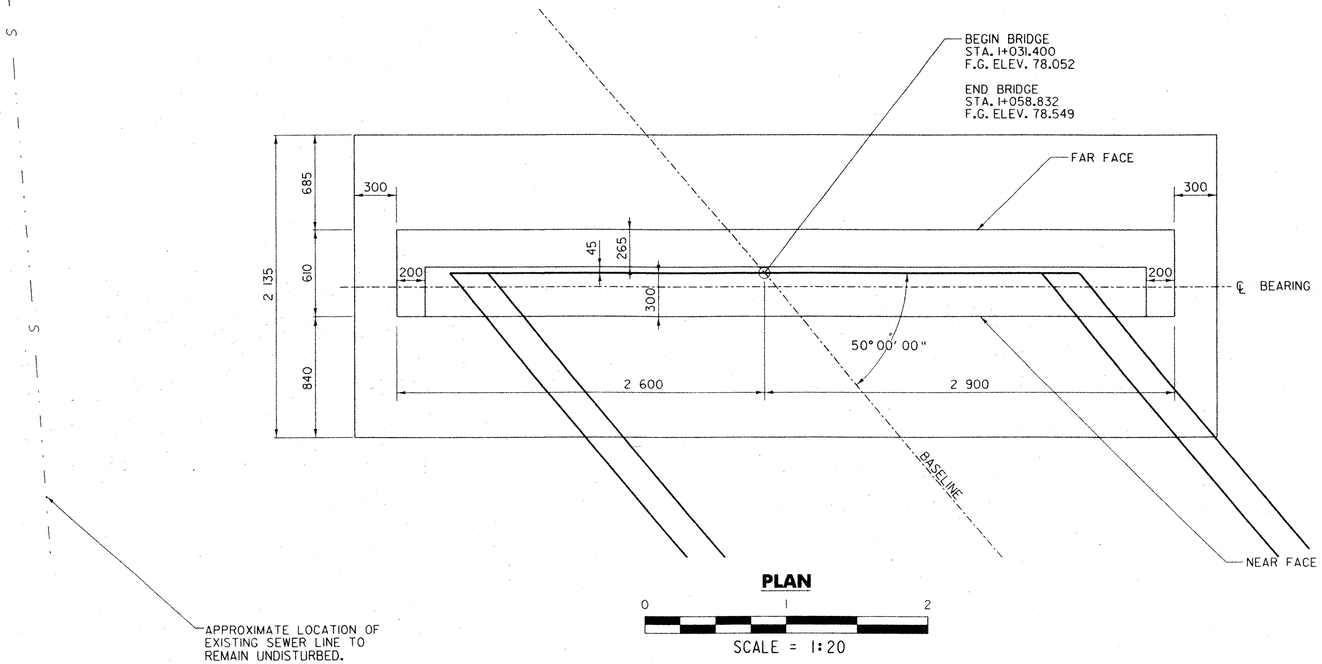
TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
GENERAL NOTES SHEET

DRAWN BY	DATE
SJB	FEB. 2004
CHECKED BY	PROJ. NO.
JFK	RI6544
PROJ. ENG.	DRAW. NO.
JFK	11447

SHEET 19 OF 30

PLOTTED BY: SJB ON 03/11/2004 AT 8:47 AM

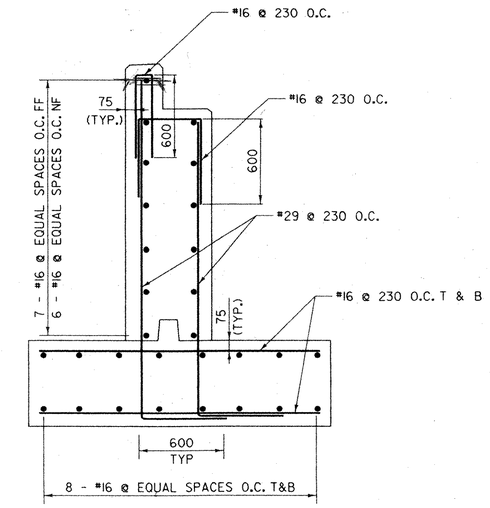
Metric



PLAN

0 1 2

SCALE = 1:20



REINFORCING DETAIL

0 1 2

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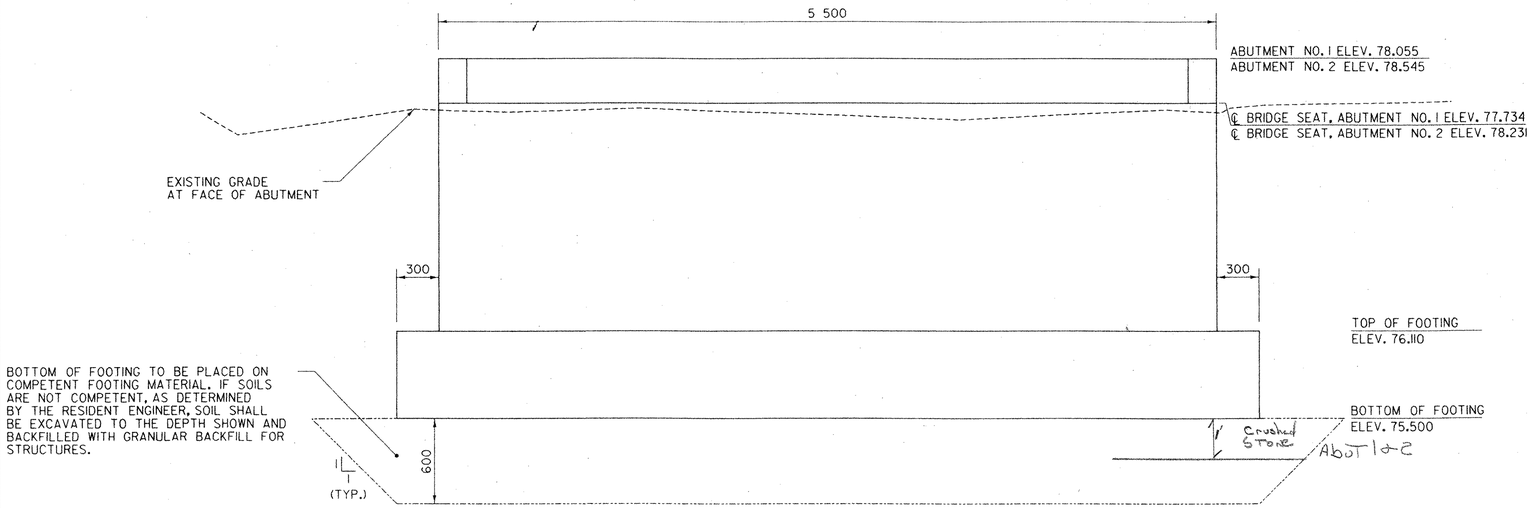
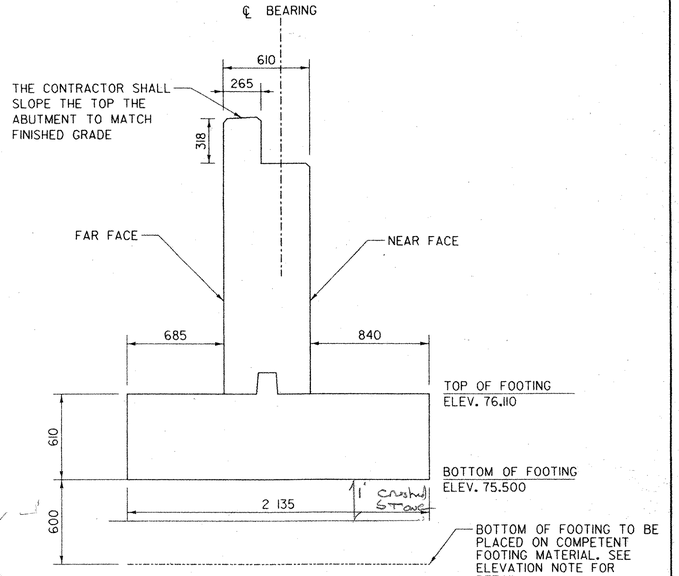


ELEVATION

0 1 2

SCALE = 1:20



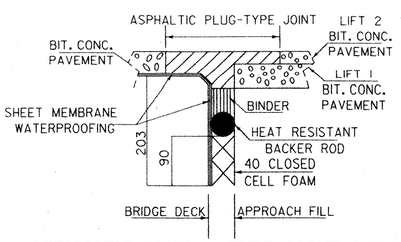
SECTION

0 1 2

SCALE = 1:20

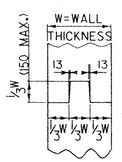
NOTES:

1. THE CONTRACTOR AND BRIDGE SUPPLIER SHALL REVISE THE ABUTMENT AND WINGWALL DIMENSIONS FOR COMPATIBILITY OF THE BRIDGE, BRIDGE SEAT AND WINGWALL DIMENSION AS PART OF THE SHOP DRAWING PROCESS. CONTRACTOR SHALL NOTIFY ENGINEER IF THE ABUTMENT DIMENSIONS NEED TO BE MODIFIED TO BE COMPATIBLE WITH THE BRIDGE.
2. SURFACES OF BRIDGE SEATS UNDER BEARING DEVICES SHALL BE LEVEL. OTHER BRIDGE SEAT AREAS SHALL BE SLOPED 42 MILLIMETERS PER METER. ABUTMENT SEATS SHALL BE SLOPED FULL WIDTH TOWARD CENTER SPAN. THE ENTIRE BRIDGE SEAT SURFACE SHALL BE SMOOTHED WITH EITHER A WOOD OR MAGNESIUM FLOAT FINISH.
3. ALL STATIONS ARE GIVEN IN KILOMETERS. ELEVATIONS ARE GIVEN IN METERS AND DIMENSIONS ARE GIVEN IN MILLIMETERS.



ASPHALTIC PLUG - TYPE JOINT DETAIL

NOT TO SCALE



TYPICAL CONCRETE CONSTRUCTION JOINT

NOT TO SCALE

STATE OF VERMONT — JOSEPH S. BUCKLEY — No. 5806 — REGISTERED PROFESSIONAL ENGINEER

PLOTTED: 03/11/2004

DuBois & King inc.

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TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT

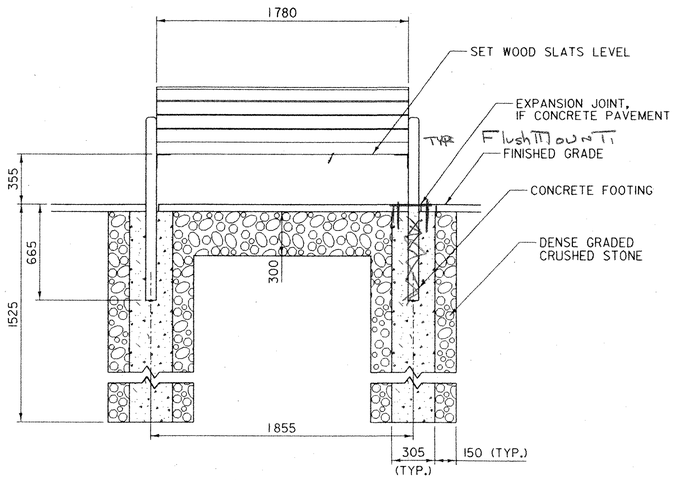
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S

ABUTMENT DETAILS

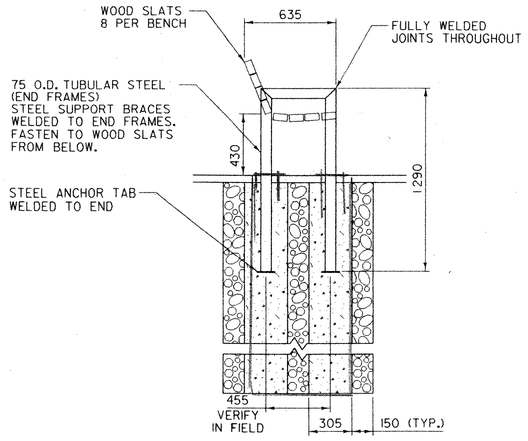
DRAWN BY: SJB	DATE: FEB. 2004
CHECKED BY: JJT	PROJ. NO.: RI6544
PROJ. ENG.: SDA	DRAW. NO.: 11448

SHEET 20 OF 30

Metric



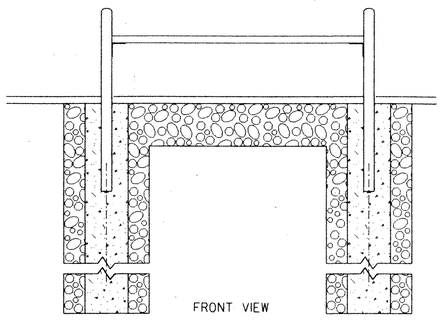
FRONT VIEW

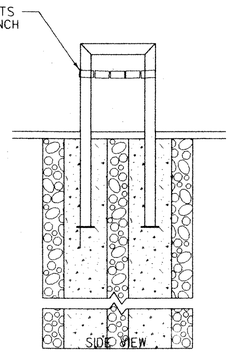


SIDE VIEW

BENCH DETAIL

SCALE 1:20





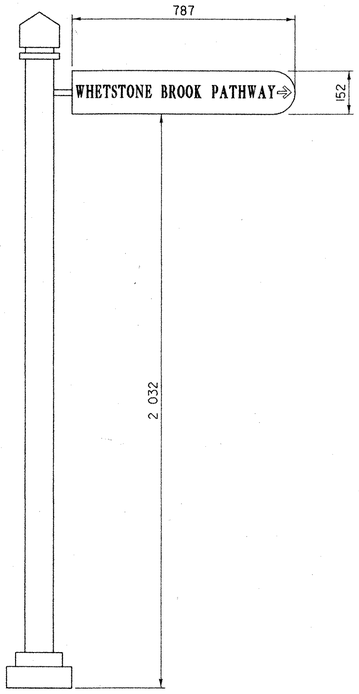
NOTE:
BENCH DIMENSIONS AND NOTES FOR BENCH SHOWN ABOVE APPLIES TO BENCH DETAIL (WITHOUT BACK) AS WELL, UNLESS NOTED OTHERWISE.

BENCH DETAIL (WITHOUT BACK)

SCALE 1:20

NOTES:

1. BENCH MANUFACTURER, STYLE AND COLOR MUST BE APPROVED BY THE TOWN PRIOR TO INSTALLATION.
2. LOCATION OF BENCHES WITH AND WITHOUT BACKS AS INDICATED ON PLANS.
3. INSTALLATION OF BENCH, INCLUDING CONCRETE FOOTING, DENSE GRADED CRUSHED STONE, STEEL ANCHOR TABS, WELDING OF JOINTS, ETC.) ARE PAID INCIDENTAL TO ITEM 658.20, "REST AREA BENCH" AND 658.20 "REST AREA BENCH (BENCH WITHOUT BACK)" AS APPLICABLE.
4. BENCH DETAIL DIMENSIONS SHOWN ARE IN MILLIMETERS.



PATHWAY SIGN DETAIL

SCALE 1:10

NOTES:

1. SIGN TYPEFACE SHALL BE RAWLINSON OR AS OTHERWISE APPROVED BY THE TOWN OF BRATTLEBORO.
2. SIGN AND SIGN POST SHALL BE IN ACCORDANCE WITH OTHER SIGNING FOR THE TOWN OF BRATTLEBORO. SIGN AND POST MUST BE APPROVED BY THE TOWN OF BRATTLEBORO PRIOR TO INSTALLATION.
3. THE "WHETSTONE BROOK PATHWAY" SIGN SHALL BE PAID BY ITEM 675.20 "TRAFFIC SIGNS, TYPE A".
4. SIGN POST AND ALL NECESSARY COSTS INCIDENTAL TO THE POST AND INSTALLATION (I.E. NECESSARY FOUNDATION, POST, MOUNTING BRACKETS BETWEEN SIGN AND POST, ITEMS NECESSARY TO INSTALL POST, ETC.) SHALL BE PAID INCIDENTAL TO ITEM 675.33 "TUBULAR STEEL SIGN POSTS (MOD)".
5. DIMENSIONS SHOWN ON SIGN DETAIL ARE GIVEN IN MILLIMETERS.

STATE OF VERMONT — REGISTERED — STEPHEN W. TUCKER — No. 7205 — PROFESSIONAL ENGINEER

PLOTTED: 03/11/2004

DuBois & King inc.
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TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT

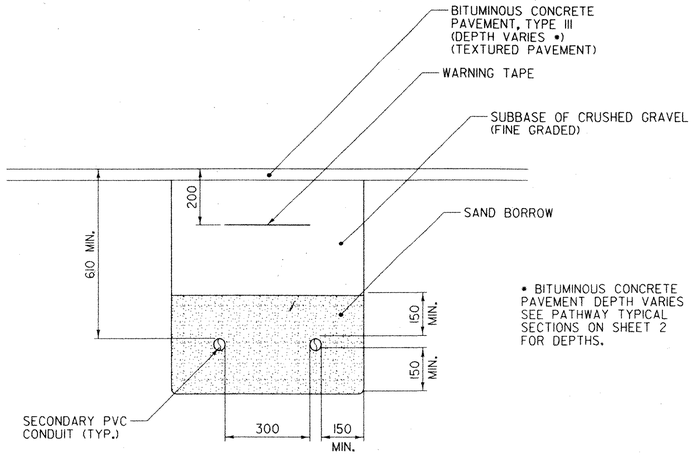
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S

DETAILS SHEET

DRAWN BY	DATE
SJB	FEB. 2004
CHECKED BY: SJB	PROJ. NO. R16544
PROJ. ENG. SDH	DRAW. NO. 11/4/19

SHEET 21 OF 30

Metric



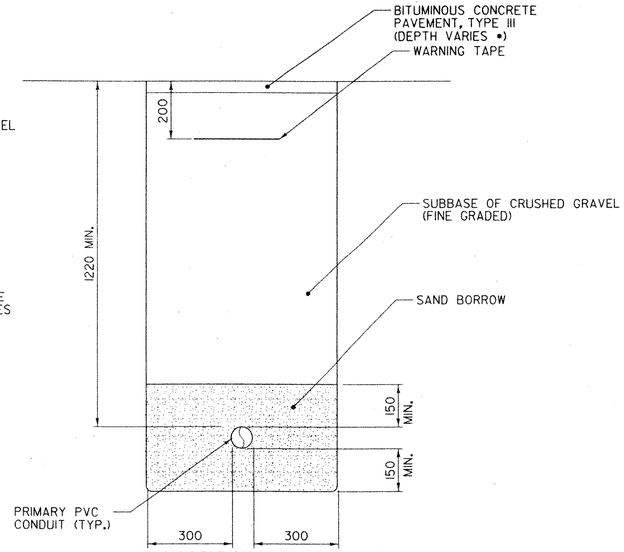
SECONDARY UNDERGROUND ELECTRICAL TRENCH DETAIL

SCALE 1:10

• BITUMINOUS CONCRETE PAVEMENT DEPTH VARIES SEE PATHWAY TYPICAL SECTIONS ON SHEET 2 FOR DEPTHS.

NOTE:

1. REFER TO UTILITY RELOCATION SHEET FOR SIZE AND QUANTITY OF CONDUITS IN TRENCH.

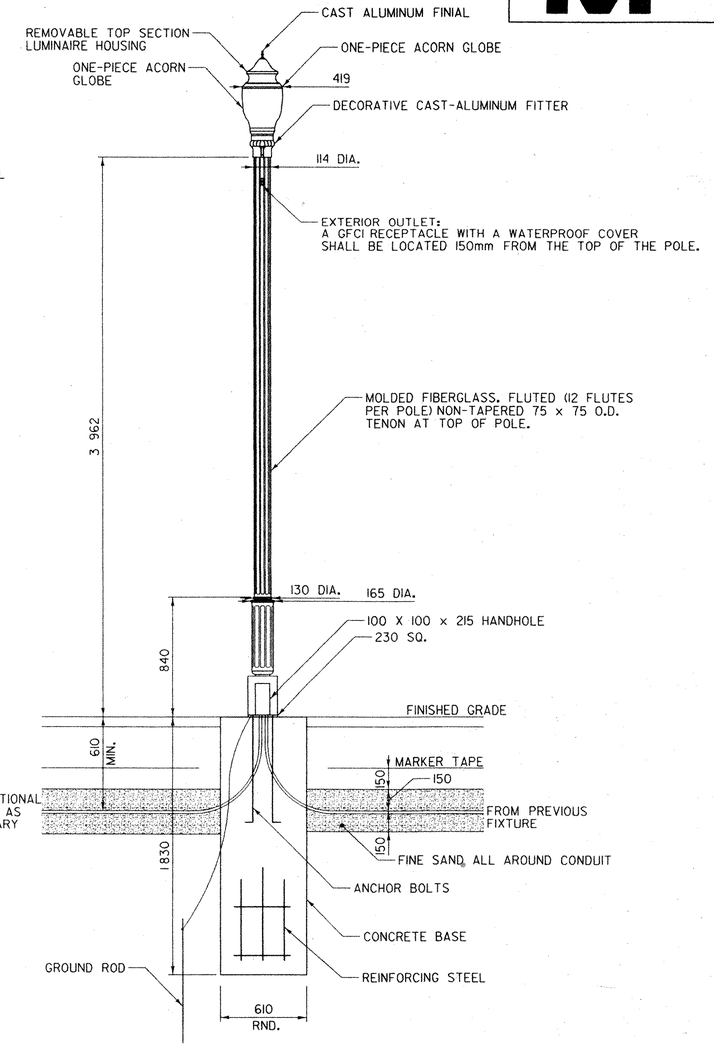


PRIMARY UNDERGROUND ELECTRICAL TRENCH DETAIL

SCALE 1:10

NOTES:

1. REFER TO UTILITY RELOCATION SHEET FOR SIZE AND QUANTITY OF CONDUITS IN TRENCH.
2. PRIMARY CONDUIT RUNS BETWEEN EXISTING POLE NO. 5-1-1 TO THE REPLACED POLE NO. 1C AND TO THE NEW ELECTRICAL CONTROL PANEL, AS SHOWN ON PLANS.



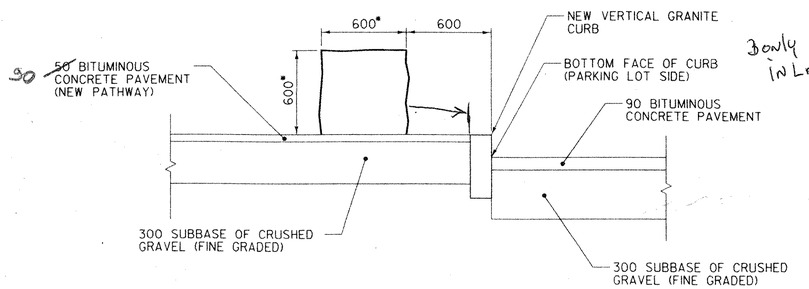
COLONIAL STYLE LIGHT FIXTURE DETAIL

NOT TO SCALE

NOTES:

1. LIGHT POST AND FIXTURE ARE TO BE MANUFACTURED BY MOLDCAST AND HAVE A WASHINGTON CONTRACLINE GLOBE (WCC). ADDITIONAL REQUIRED OPTIONS INCLUDE A CAST FILIGREE BASKET (ALF) AND A PULSE START BALLAST (PSB). POSTS ARE TO BE BLACK (BLK) IN COLOR. MOLDCAST CATALOG NUMBER FOR EACH LUMINAIRE IS WCC-175MH-MT-ALF-PTA-BLK W/ POST TOP ADAPTOR FOR 75mm OD MNT. EACH LUMINAIRE SHALL INCLUDE A 175MH LAMP AND 175MH PS LAMP.
2. PHOTOCELLS ON THE ELECTRICAL SERVICE STANCHION SHALL ACTIVATE THE LUMINAIRE. SEE SHEET 14 FOR DETAILS.
3. PROVIDE HAND RUBBED FINISH ON ALL EXPOSED SURFACES OF CONCRETE BASE.
4. LIGHT POLE GROUND CONDUCTOR, # 8 AWG.
5. BASE REINFORCING: 12 #13 VERTICAL, 1 #13 HORIZONTAL, 300 O.C.
6. COMPACT BACKFILL AROUND CONCRETE BASE TO 95% MAXIMUM DENSITY STANDARD PROCTOR.
7. THE BROOKSIDE PLAZA PARKING LOT LIGHTS ARE THE SAME AS THE COLONIAL STYLE LIGHT FIXTURE DETAIL SHOWN ABOVE EXCEPT THAT THE CONCRETE BASE WILL HAVE A ONE-METER REVEAL. THE POLE ITSELF WILL BE 914mm SHORTER THAN THE PATHWAY LIGHT POLES SO THAT THE BASE OF THE GLOBE WILL BE AT THE SAME HEIGHT ABOVE FINISHED GRADE.
8. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE LIGHT FIXTURE, POLE, GLOBE AND RELATED APPURTENANCES TO THE TOWN FOR REVIEW AND APPROVAL PRIOR TO ORDERING THE LIGHTS.

• DIMENSIONS OF GRANITE BLOCK SHOWN ARE APPROXIMATE AND VARY DEPENDING ON ROCK. LENGTH OF EACH BLOCK IS APPROXIMATELY 1.2m - 1.5m. WIDTH OF BLOCKS BETWEEN STATION 1+117.60 TO 1+136.64 MUST ALLOW FOR A MINIMUM PATHWAY WIDTH OF 1.5 METERS, AND THEREFORE THE WIDTH OF BLOCKS MAY BE LESS THAN 600mm WIDE WITHIN THIS SECTION.



GRANITE BLOCK DETAIL

SCALE 1:20

NOTES:

1. PLANS SHOW SIXTEEN (16) GRANITE BLOCKS. THE TOWN OF BRATTLEBORO CURRENTLY HAS TWELVE GRANITE BLOCKS IN STORAGE TO BE USED FOR THIS PROJECT. IF THESE BLOCKS ARE NOT AVAILABLE AT THE TIME OF THE PROJECT'S CONSTRUCTION, FINAL LOCATION OF THE AVAILABLE BLOCKS SHALL BE APPROVED BY THE TOWN.
2. THE REMAINING FOUR BLOCKS WHICH THE TOWN DOES NOT CURRENTLY HAVE IN STORAGE WILL BE EXCAVATED AS PART OF THIS PROJECT IN THE EXISTING ENTRANCE WAY TO THE BAST PARKING LOT.
3. IF FOUR SUITABLE BLOCKS ARE NOT OBTAINED THROUGH THIS PROJECT THROUGH EXCAVATION IN THE VICINITY OF THE PROPOSED ENTRANCE TO THE BAST PARKING LOT THEN THE TOWN SHALL APPROVE THE FINAL LOCATION OF THE BLOCKS WHICH ARE AVAILABLE FOR THIS PROJECT.
4. THESE BLOCKS ARE TO BE PAID FOR UNDER ITEM 621.85, 'GUIDE POSTS (MOD. - GRANITE BLOCK)'.
5. ALTERATIONS OF THE LOCATIONS OF THESE BLOCKS MAY BE MADE AT THE TOWN'S REQUEST, PRIOR TO PLACEMENT OF THE BLOCKS.
6. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE TWELVE GRANITE BLOCKS FROM THE TOWN, TRANSPORTING BLOCKS TO THE PROJECT SITE, NECESSARY CLEANING OF THE BLOCKS AND PLACING THE BLOCKS IN THE PROPER LOCATIONS.

ALL DIMENSIONS SHOWN ON THIS SHEET ARE IN MILLIMETERS.

PLOTTED: 03/11/2004

DuBois & King inc.
engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT

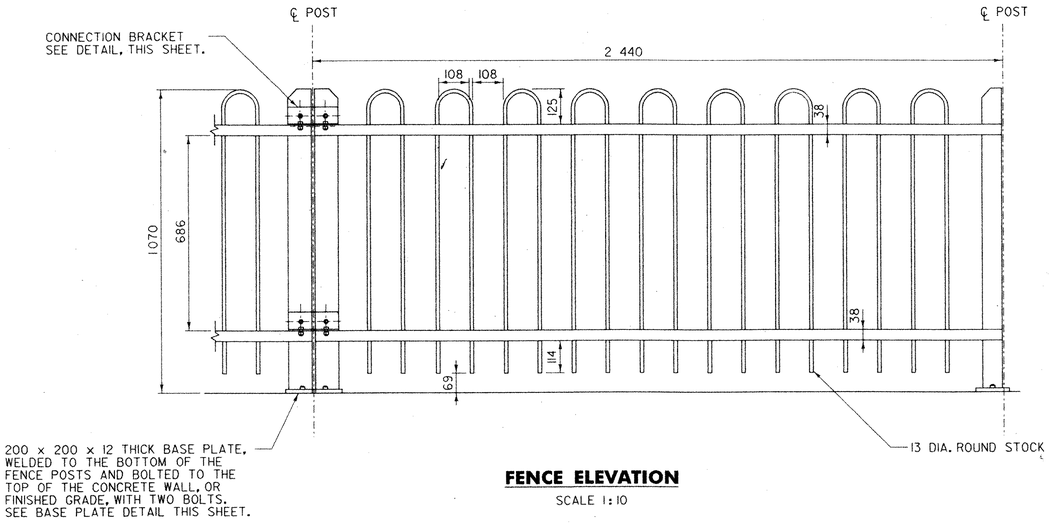
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S

DETAILS SHEET

DRAWN BY SJB	DATE FEB. 2004
CHECKED BY JM	PROJ. NO. RI6544
PROJ. ENG. JDA	DRAW. NO. 11450

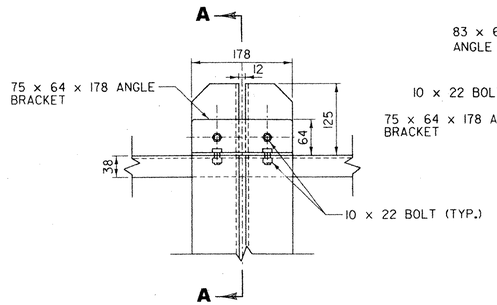
SHEET 22 OF 30

Metric



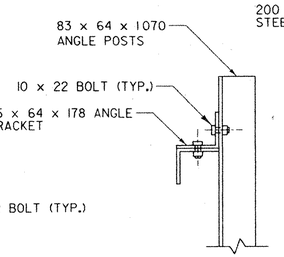
FENCE ELEVATION

SCALE 1:10



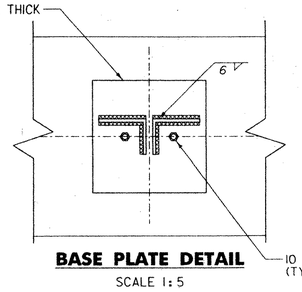
ELEVATION

SCALE 1:5



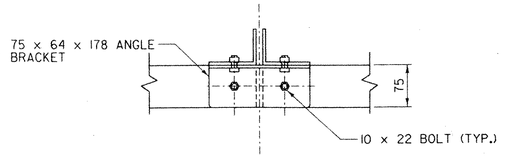
SECTION A–A

SCALE 1:5



BASE PLATE DETAIL

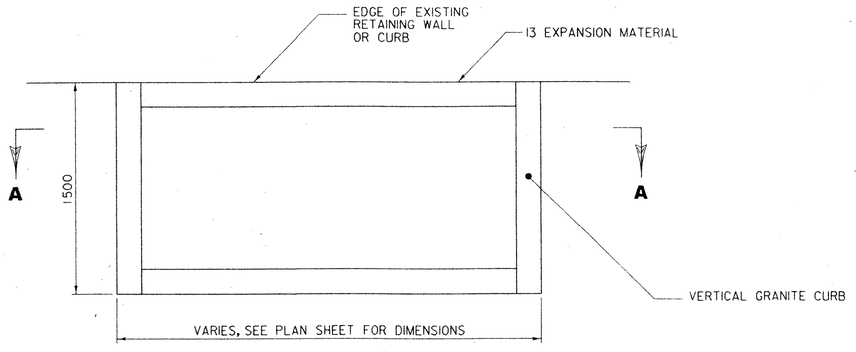
SCALE 1:5



PLAN

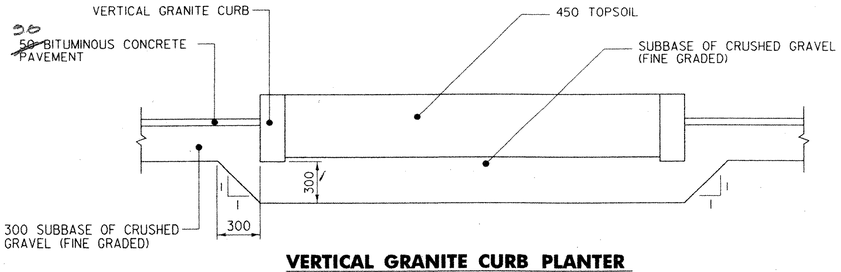
CONNECTION BRACKET DETAILS

SCALE 1:5



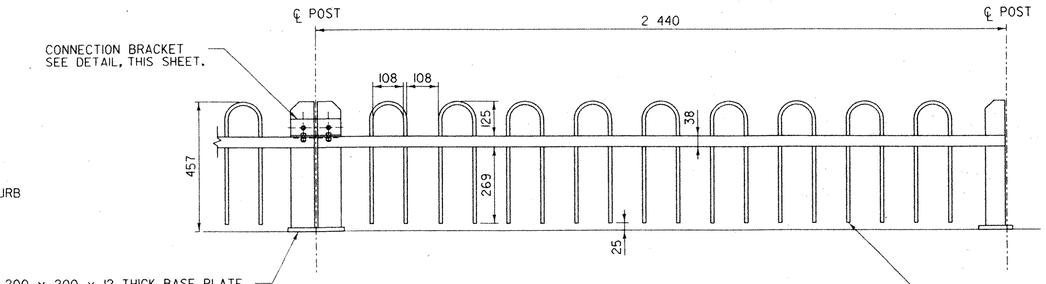
VERTICAL GRANITE CURB PLANTER PLAN VIEW

SCALE 1:20



VERTICAL GRANITE CURB PLANTER SECTION A–A

SCALE 1:20



BRIDGE RAILING DETAIL

SCALE 1:10

NOTES:

1. THE FABRICATOR SHALL BE RESPONSIBLE TO WELD THE BRIDGE RAILING TO THE TOP OF THE BRIDGE BEAM DURING THE ASSEMBLY OF THE BRIDGE. THE BRIDGE BEAM AND RAILING SHALL BE PROTECTED WITH AN APPROVED PAINTING SYSTEM FROM VTRANS QUALIFIED PRODUCTS LIST FOR PROTECTIVE COATINGS FOR NEW STEEL FOR BRIDGES. THIS WORK SHALL BE PAID FOR SUBSIDIARY TO ITEM 545.20, "PREFABRICATED MULTI-MODAL BRIDGE". THE PAINT CHIP NUMBER SHALL BE NO. 37038, BLACK.
2. ALL DIMENSIONS SHOWN ON THIS SHEET ARE IN MILLIMETERS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THE EXISTING FENCE AND ANCHORING THE BASE PLATE OF THE NEW FENCE TO THE TOP OF THE CONCRETE WALL AS SHOWN IN THE PLANS. THE FENCE SHALL BE PROTECTED WITH AN APPROVED PAINTING SYSTEM FROM VTRANS QUALIFIED PRODUCTS LIST FOR PROTECTIVE COATINGS. THE PAINT CHIP NUMBER SHALL BE NO. 37038, BLACK. THIS WORK INCLUDING THE FENCE, HARDWARE AND ALL NECESSARY WORK TO INSTALL THE FENCE SHALL BE PAID FOR UNDER ITEM 620.80, "MISCELLANEOUS FENCE (MOD. - PREFAB. STEEL RAILING)".

STATE OF VERMONT — SCOTT J. BRIGGS — No. 9516 — REGISTERED PROFESSIONAL ENGINEER

PLOTTED: 03/11/2004

DuBois & King inc.
engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT

WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S

DETAILS SHEET

DRAWN BY	DATE
SJB	FEB. 2004
CHECKED BY	PROJ. NO.
JDH	RI6544
PROJ. ENG.	DRAW. NO.
JDH	11451

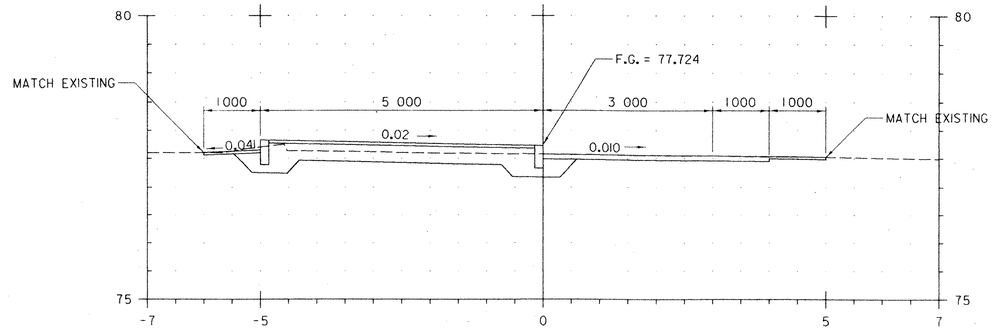
SHEET 23 OF 30

Metric

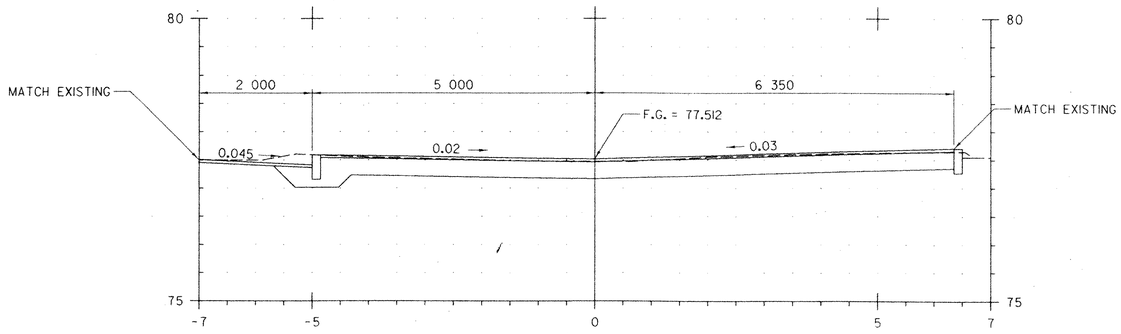
TABLE 1:
BOTTOM FACE OF CURB (PARKING LOT SIDE) OFFSET FROM BASELINE

STATION	OFFSET	STATION	OFFSET
STA. 1+005.000	0.557 RT	STA. 1+090.000	0.354 RT
STA. 1+010.000	0.000 RT	STA. 1+095.000	0.420 RT
STA. 1+015.000	0.000 RT	STA. 1+100.000	0.483 RT
STA. 1+020.000	0.533 RT	STA. 1+102.318 (AP•)	0.514 RT
STA. 1+024.547 (PC)	6.070 RT	STA. 1+105.000	0.444 RT
STA. 1+025.000	5.398 RT	STA. 1+110.000	0.311RT
STA. 1+055.000	2.878 RT	STA. 1+115.000	0.181RT
STA. 1+060.000	3.135 RT	STA. 1+120.000	0.049 RT
STA. 1+061.023 (PC)	3.190 RT	STA. 1+121.586 (AP•)	0.008 RT
STA. 1+063.946 (PT)	4.784 RT	STA. 1+125.000	0.061LT
STA. 1+065.000	5.076 RT	STA. 1+130.000	0.164 LT
STA. 1+069.252 (AP•)	0.088 RT	STA. 1+130.929 (AP•)	0.182 LT
STA. 1+070.000	0.097 RT	STA. 1+135.000	0.127 LT
STA. 1+075.000	0.162 RT	STA. 1+136.490 (AP•)	0.107 LT
STA. 1+080.000	0.226 RT	STA. 1+140.000	4.763 RT
STA. 1+085.000	0.291RT	STA. 1+145.000	1.062 RT

(AP•) : ANGLE POINT ALONG THE CURB



1+010



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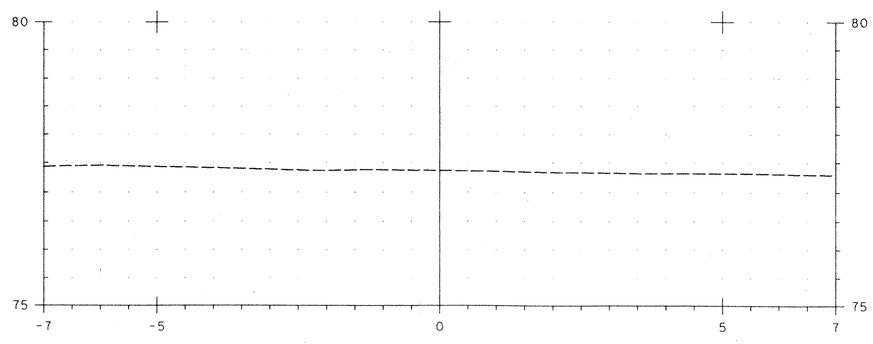
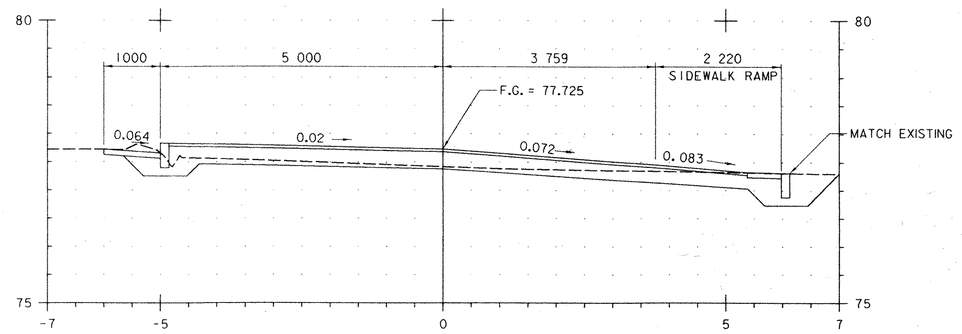
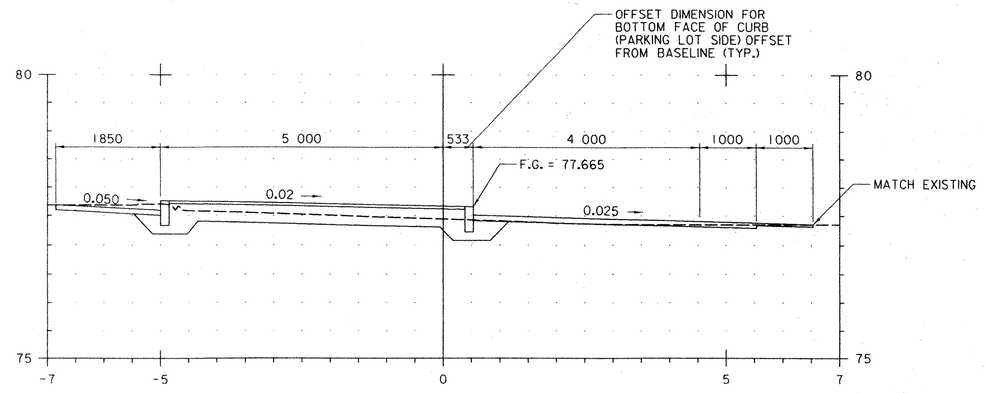


1+000



1+024



1+020

NOTE:

STATIONS ARE GIVEN IN KILOMETERS, OFFSETS ARE GIVEN IN METERS AND DIMENSIONS ARE GIVEN IN MILLIMETERS.

DATUM

VERTICAL NVD 88

HORIZONTAL NAD 83

0 1 2 3

SCALE 1:50

STATE OF VERMONT — JOHN T. REGAN — No. 3806 — REGISTERED PROFESSIONAL ENGINEER

PLOTTED: 03/11/2004

DuBois & King inc.

engineering planning management development

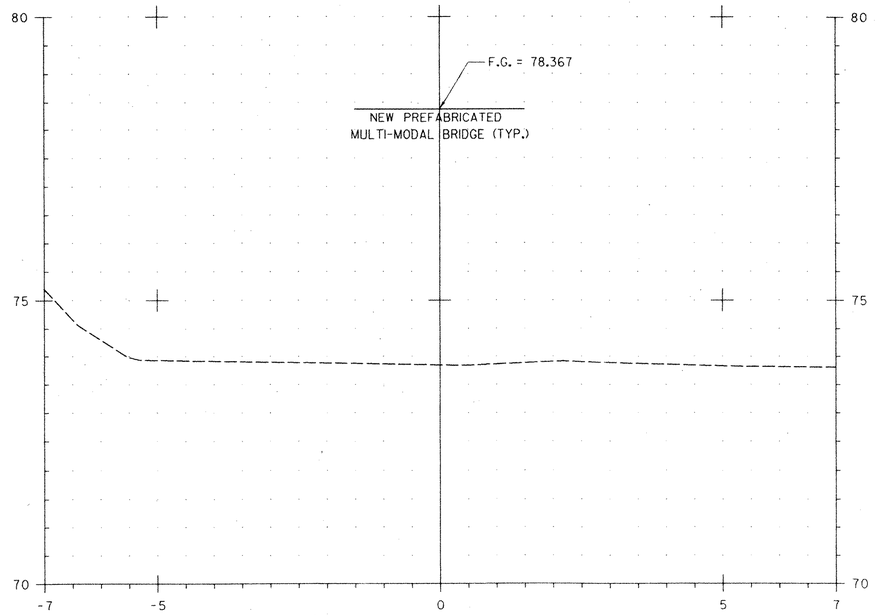
TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT

WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S

PATHWAY CROSS SECTIONS

DRAWN BY: SJB	DATE: FEB. 2004
CHECKED BY: JAT	PROJ. NO.: R16544
PROJ. ENG.: JAT	DRAW. NO.: 11452

SHEET 24 OF 30



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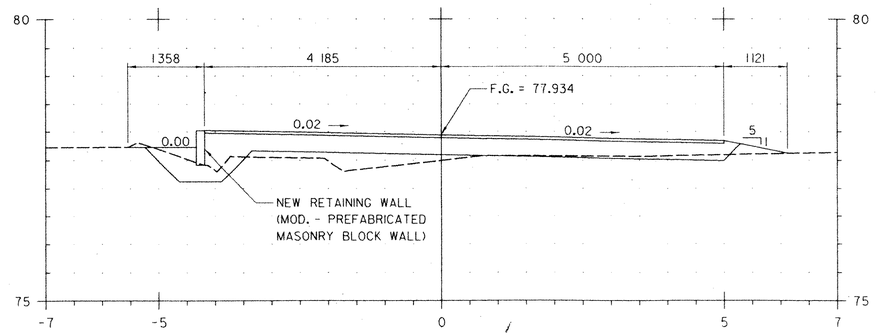

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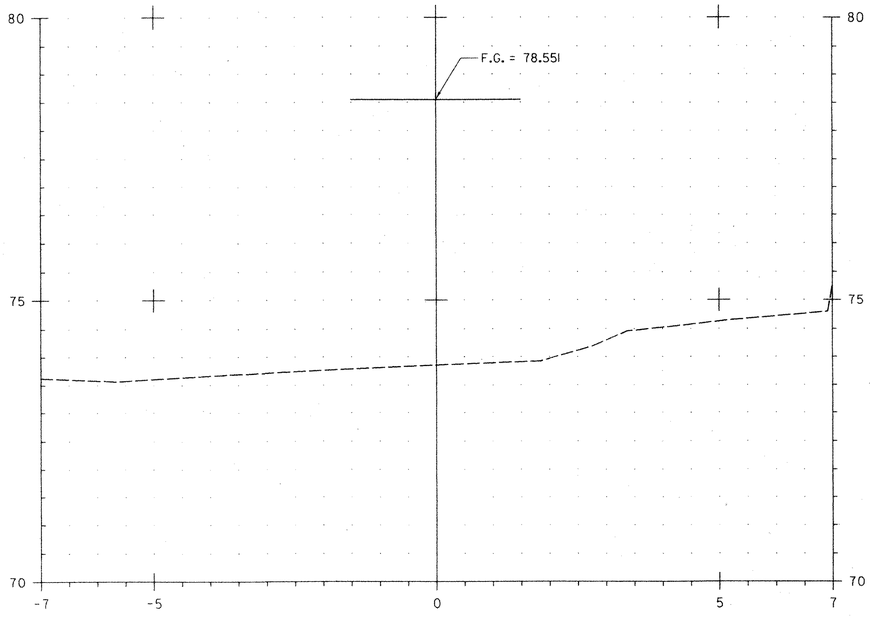


1+050

NOTE:
STATIONS ARE GIVEN IN KILOMETERS, OFFSETS ARE GIVEN IN METERS AND DIMENSIONS ARE GIVEN IN MILLIMETERS.

DATUM
VERTICAL NVD 88
HORIZONTAL NAD 83

0 1 2 3
SCALE 1:50

PLOTTED: 03/11/2004

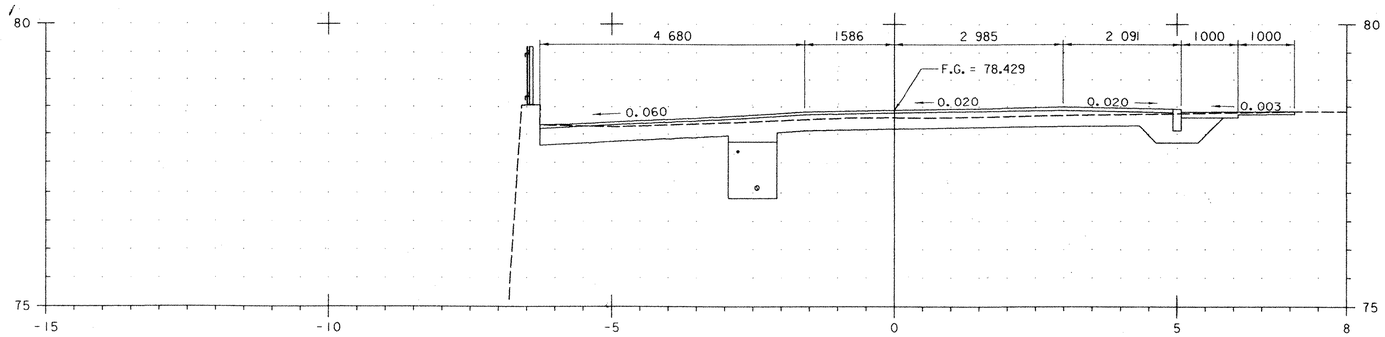
DuBois & King inc.
engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
PATHWAY CROSS SECTIONS

DRAWN BY	DATE
SJB	FEB. 2004
CHECKED BY	PROJ. NO.
	R16544
PROJ. ENG.	DRAW. NO.
JDA	11453

SHEET 25 OF 30

Metric



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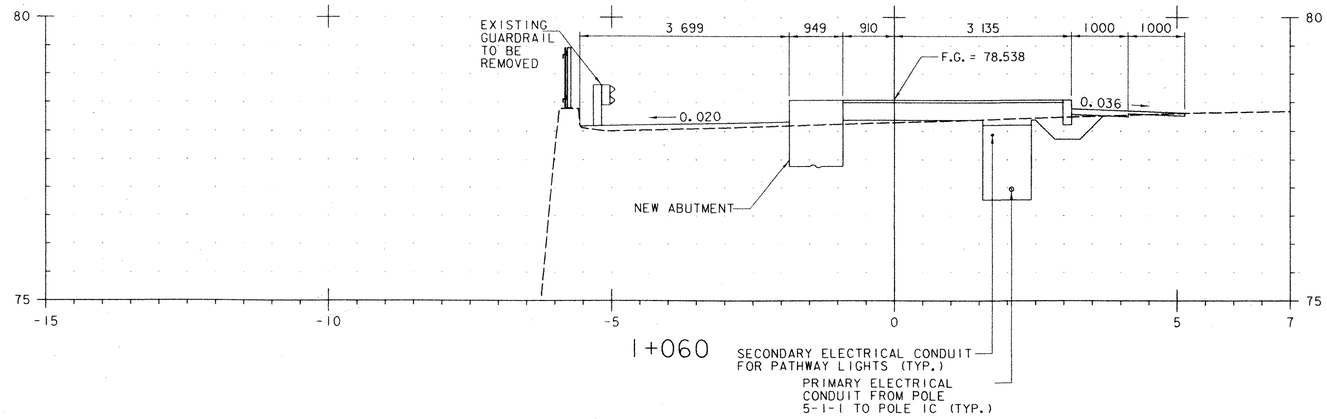
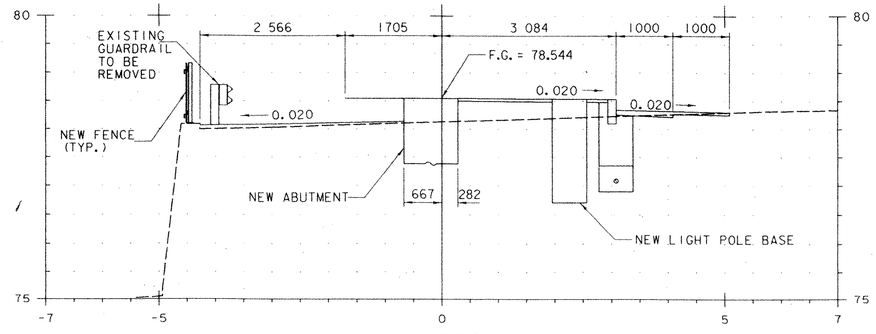


1+060



1+059

NOTE:

STATIONS ARE GIVEN IN KILOMETERS, OFFSETS ARE GIVEN IN METERS AND DIMENSIONS ARE GIVEN IN MILLIMETERS.

DATUM

VERTICAL NVD 88

HORIZONTAL NAD 83

0 1 2 3

SCALE 1:50

STATE OF VERMONT — JUSTIN S. BUSSIERE — No. 5036 — REGISTERED PROFESSIONAL ENGINEER

PLOTTED: 03/11/2004

DuBois & King inc.

engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT

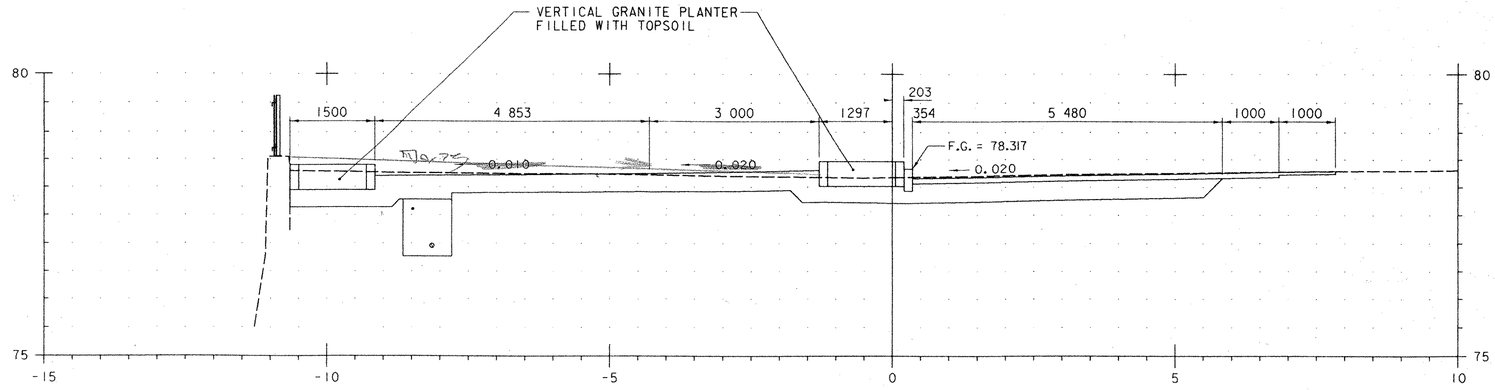
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S

PATHWAY CROSS SECTIONS

DRAWN BY SJB	DATE FEB. 2004
CHECKED BY JSS	PROJ. NO. RI6544
PROJ. ENG. JDA	DRAW. NO. 11454

SHEET 26 OF 30

Metric



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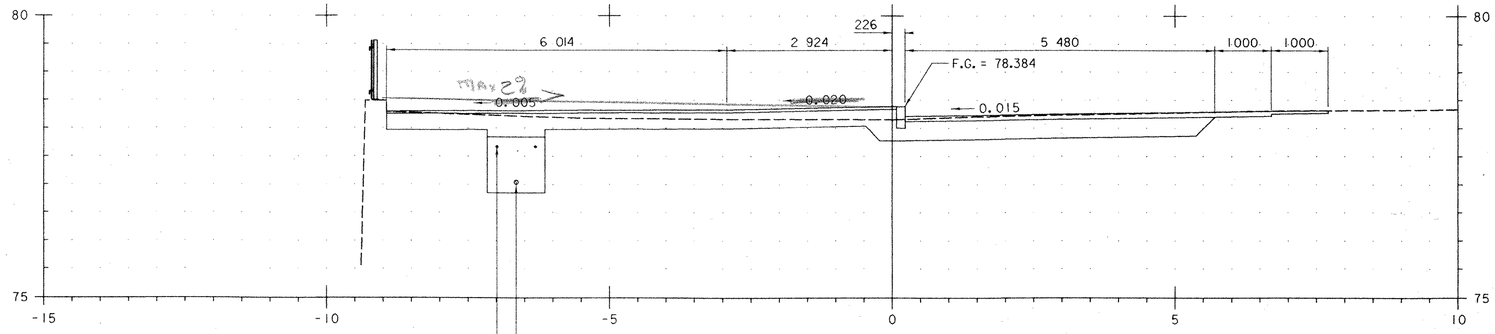
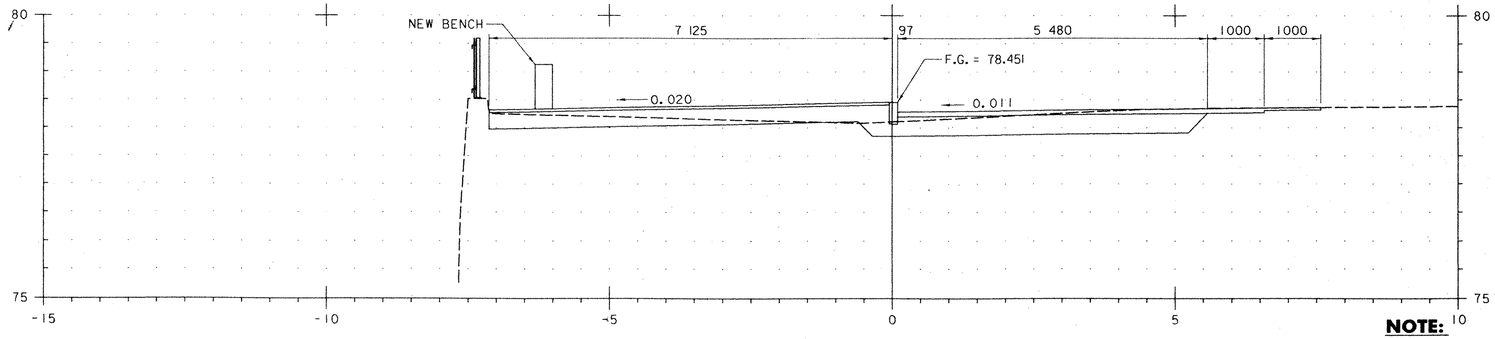


SECONDARY ELECTRICAL CONDUIT FOR PATHWAY LIGHTS (TYP.)

PRIMARY ELECTRICAL CONDUIT FROM POLE 5-1-1 TO POLE 1C (TYP.)

1+080



1+070

NOTE: STATIONS ARE GIVEN IN KILOMETERS, OFFSETS ARE GIVEN IN METERS AND DIMENSIONS ARE GIVEN IN MILLIMETERS.

DATUM

VERTICAL NVD 88

HORIZONTAL NAD 83

0 1 2 3

SCALE 1:50

STATE OF VERMONT — DISTRICT ENGINEER — NO. 5106 — REGISTERED PROFESSIONAL ENGINEER

PLOTTED: 03/11/2004

DuBois & King inc.

engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT

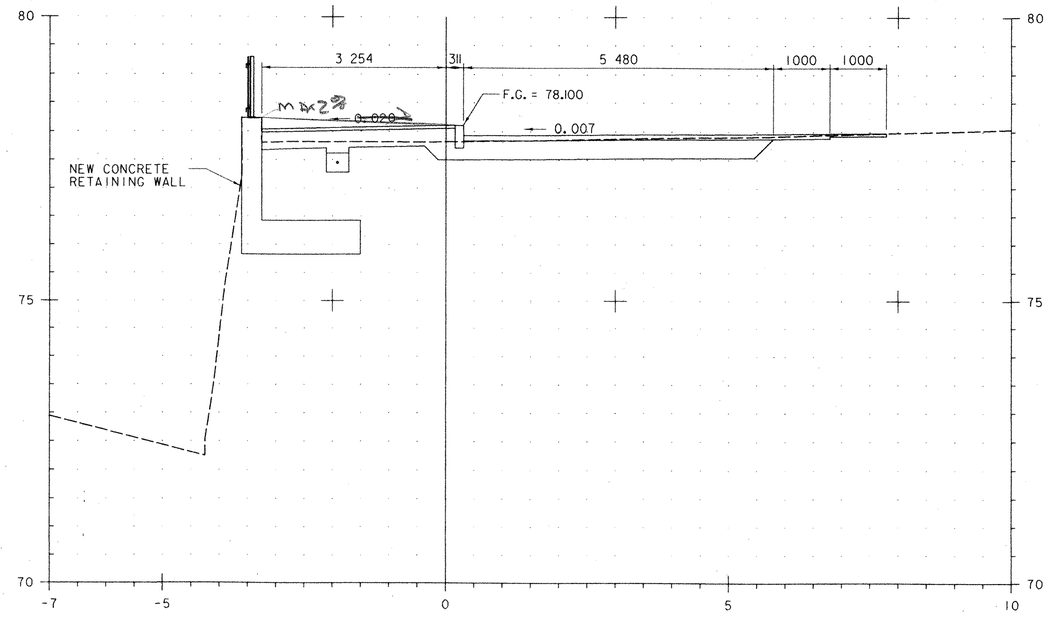
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S

PATHWAY CROSS SECTIONS

DRAWN BY SJB	DATE FEB. 2004
CHECKED BY JWT	PROJ. NO. R16544
PROJ. ENG. JDA	DRAW. NO. 11455

SHEET 27 OF 30

Metric



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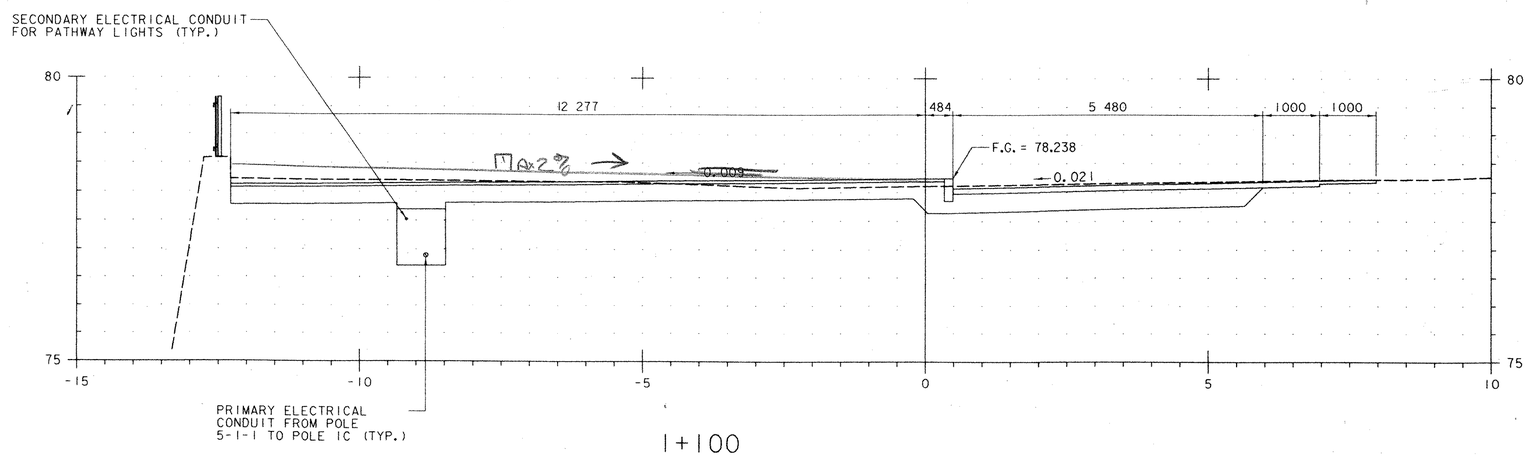


1+100

NOTE:

STATIONS ARE GIVEN IN KILOMETERS, OFFSETS ARE GIVEN IN METERS AND DIMENSIONS ARE GIVEN IN MILLIMETERS.

DATUM

VERTICAL NVD 88

HORIZONTAL NAD 83

0 1 2 3

SCALE 1:50

STATE OF VERMONT — STEPHEN J. BRYANT — 7416 5606 — REGISTERED PROFESSIONAL ENGINEER

PLOTTED: 03/11/2004

DuBois & King inc.

engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT

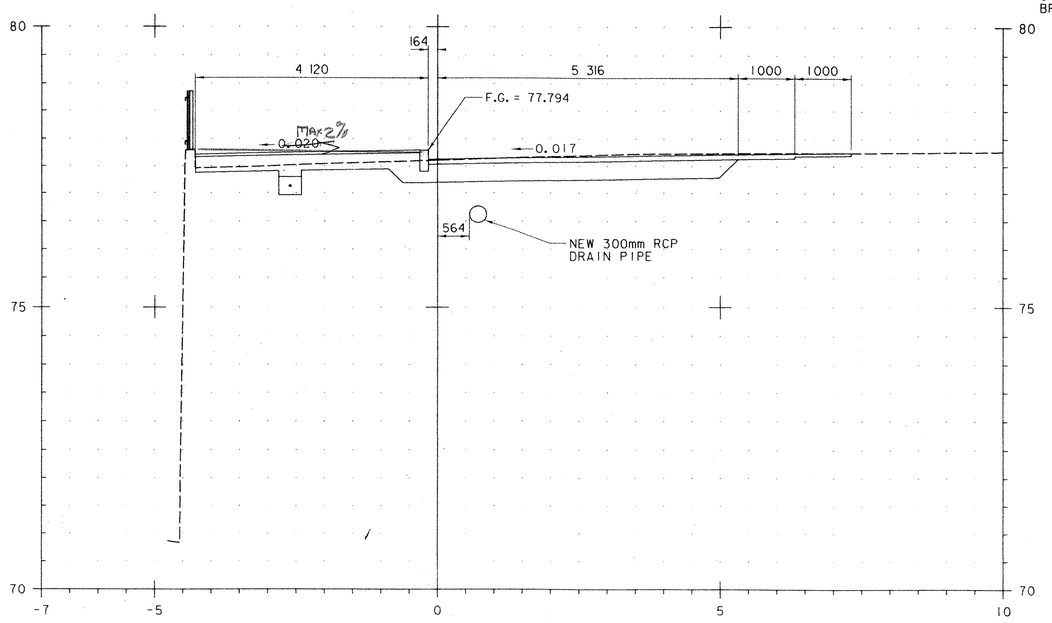
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S

PATHWAY CROSS SECTIONS

DRAWN BY	DATE
SJB	FEB. 2004
CHECKED BY	PROJ. NO.
	RI6544
PROJ. ENG.	DRAW. NO.
JBA	11456

SHEET 28 OF 30

Metric



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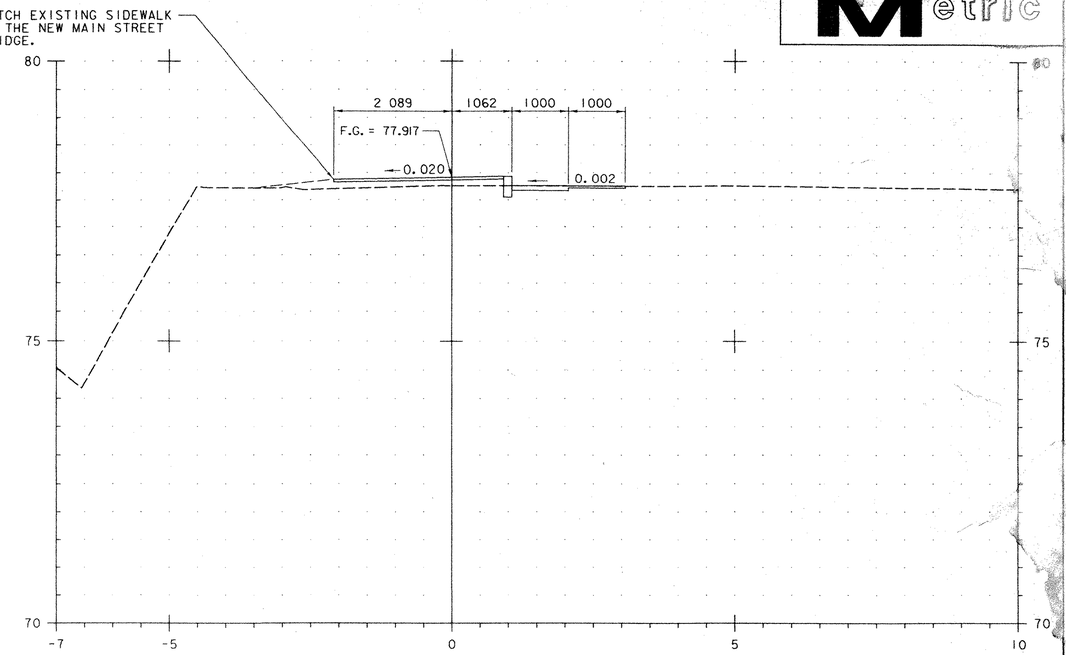

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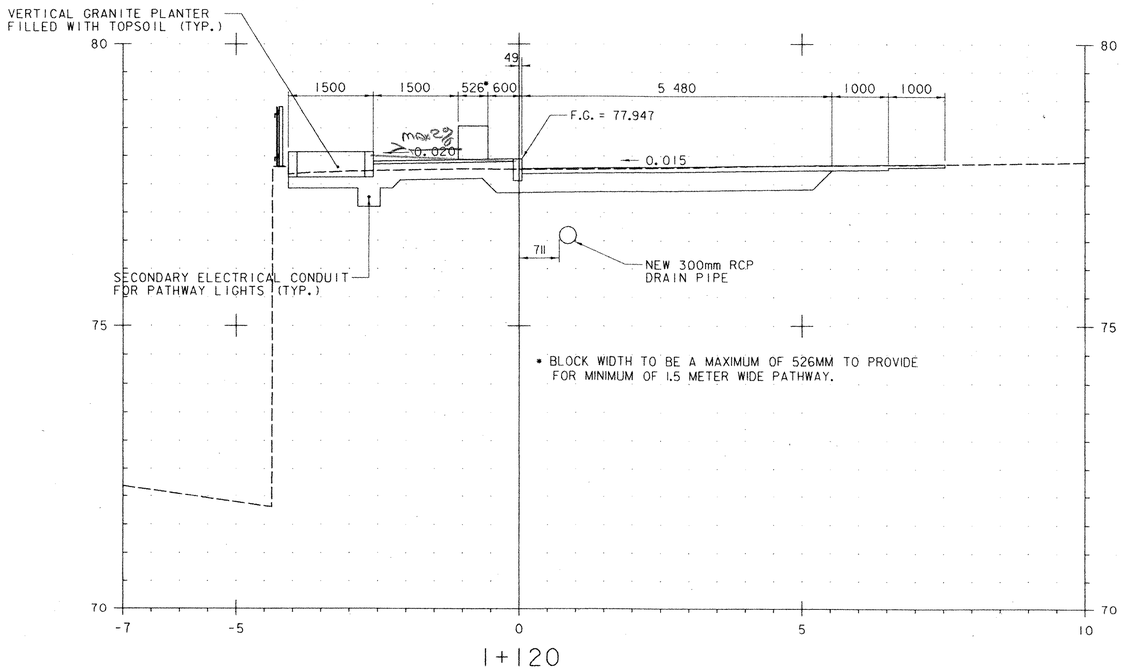

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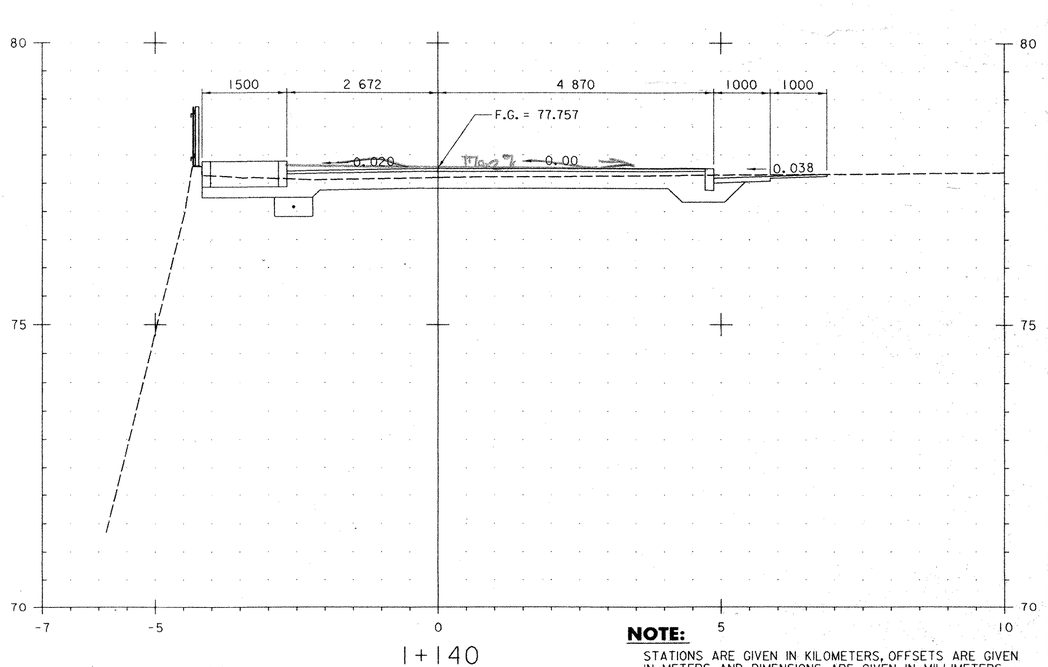


1+140

NOTE:
STATIONS ARE GIVEN IN KILOMETERS, OFFSETS ARE GIVEN IN METERS AND DIMENSIONS ARE GIVEN IN MILLIMETERS.

DATUM	
VERTICAL	NVD 88
HORIZONTAL	NAD 83

0 1 2 3
SCALE 1:50

PLOTTED: 03/11/2004

DuBois & King inc.
engineering planning management development

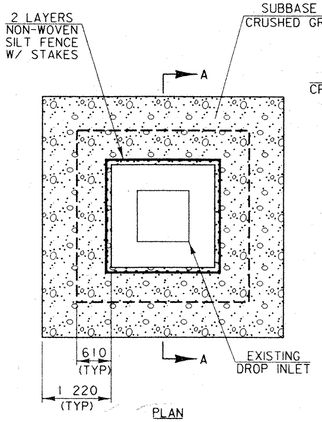
TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
PATHWAY CROSS SECTIONS

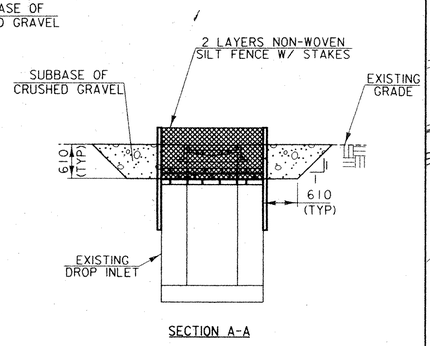
DRAWN BY	DATE
SJB	FEB. 2004
CHECKED BY	PROJ. NO.
JDA	R16544
PROJ. ENG.	DRAW. NO.
JDA	11457

SHEET 29 OF 30

EROSION CONTROL NOTES

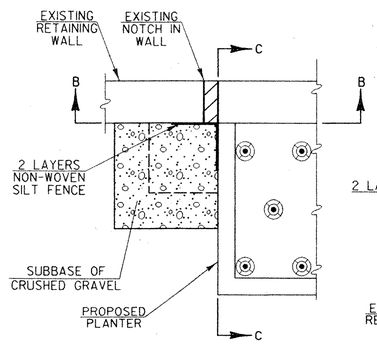
1. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE AND MONITORING OF EROSION CONTROL DEVICES AS SPECIFIED IN THE SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS AND AS INDICATED ON THESE PLANS.
2. TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE IN PLACE AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO EXCAVATION OF SURFACES, BEYOND THOSE NECESSARY TO INSTALL THESE MEASURES.
3. ONE OBJECTIVE OF THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN IS TO MINIMIZE THE TIME THAT EXCAVATED SOILS ARE EXPOSED TO THE ELEMENTS. EXCAVATION OF THE UTILITY TRENCHES, ABUTMENTS, RETAINING WALL AND OVERALL PATHWAY SURFACE SHALL BE SEQUENCED TO ACHIEVE THIS OBJECTIVE. THIS SEQUENCING OF EXCAVATION WORK SHALL BE IN THE CONTRACTOR'S EROSION AND SEDIMENT CONTROL PLAN.
4. FOR EXAMPLE, EXCAVATION AND BACKFILLING OF THE UTILITY TRENCHES SHOULD OCCUR PRIOR TO REMOVING ALL OF THE EXISTING ASPHALT WITHIN THE NEW PATHWAY. NEW ASPHALT SHOULD BE PLACED OVER THE TRENCHES IN AREAS OUTSIDE THE LIMITS OF THE PATHWAY PRIOR TO EXCAVATION OF THE PATHWAY (IE: BAST PARKING LOT LIGHTS, UTILITY TRENCH BEHIND BUILDING).
5. THE EXCAVATED AREA FOR THE NEW ABUTMENTS AND FOOTINGS SHALL BE STABILIZED TO PREVENT SURFACE WATER FROM TRANSPORTING SEDIMENTS INTO THE BROOK.
6. NON-WOVEN SILT FENCE WITH STAKES WILL BE PAID FOR UNDER ITEM 654.10, "EROSION MATTING".
7. INLET TO THE TWO NEW CATCH BASINS SHALL BE COVERED TO PREVENT THE TRANSPORT OF SEDIMENTS INTO THEM UNTIL SUCH TIME THAT THE PATHWAY CURBING IS INSTALLED AND STORMWATER RUNOFF CANNOT SHEET FLOW TO THE EXISTING NOTCHES IN THE RETAINING WALLS. THE CONTRACTOR MAY INSTALL ALTERNATIVE MEASURES SUBJECT TO APPROVAL BY THE RESIDENT ENGINEER.

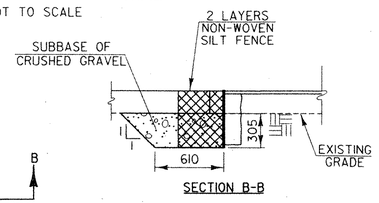


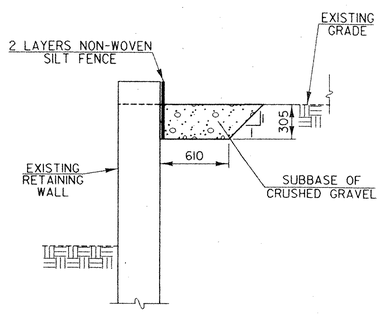


EROSION CONTROL MEASURE #1

NOT TO SCALE



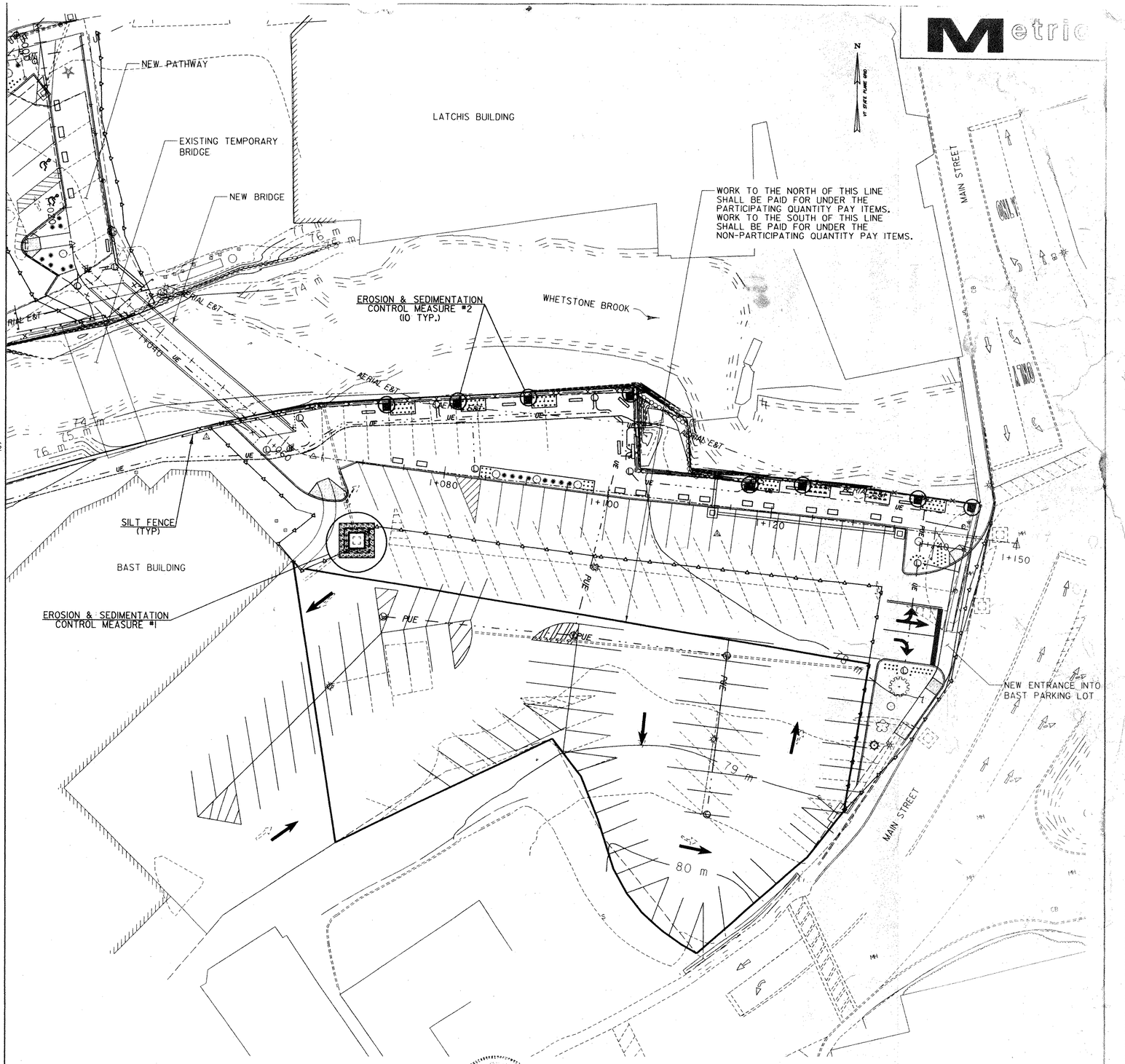




EROSION CONTROL MEASURE #2

NOT TO SCALE

DATUM	
VERTICAL	NVD 88
HORIZONTAL	NAD 83



EROSION & SEDIMENTATION CONTROL

5 0 5 10 15 20

SCALE IN METERS
SCALE: 1:250

STATE OF VERMONT — WILLIAM K. SLOAN — 4/1/2004 — PROFESSIONAL ENGINEER

PLOTTED: 03/11/2004

DuBois & King inc.

engineering planning management development

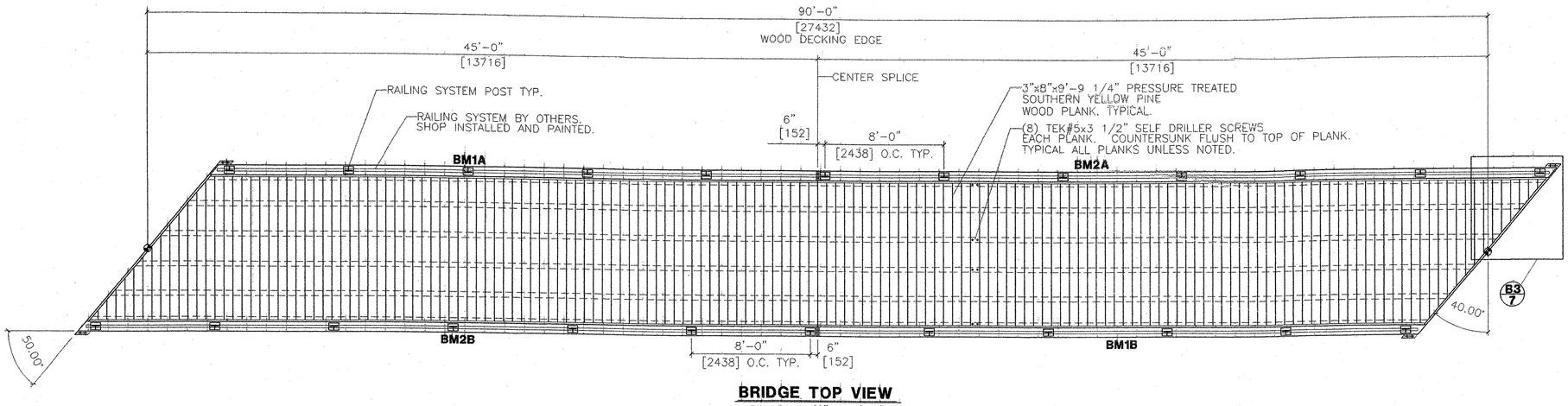
TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT

WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S

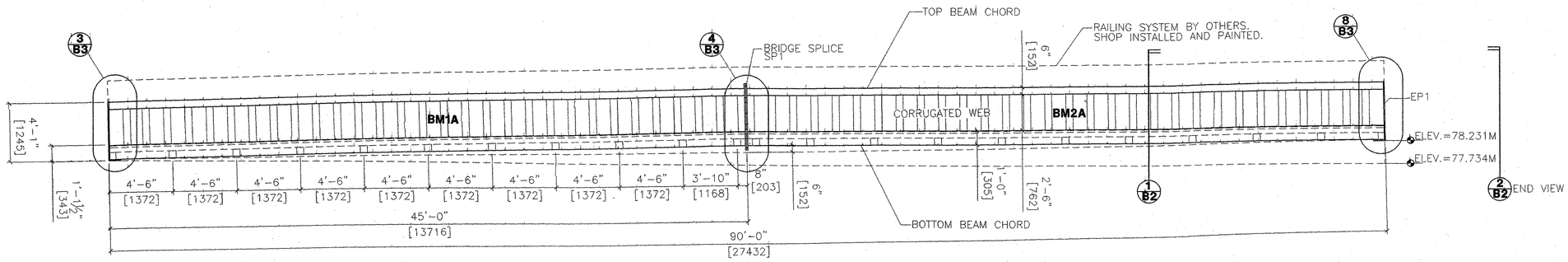
EROSION & SEDIMENTATION CONTROL

DRAWN BY	DATE
SJB	FEB. 2004
CHECKED BY	PROJ. NO.
	R16544
PROJ. ENG.	DRAW. NO.
	14 of 8

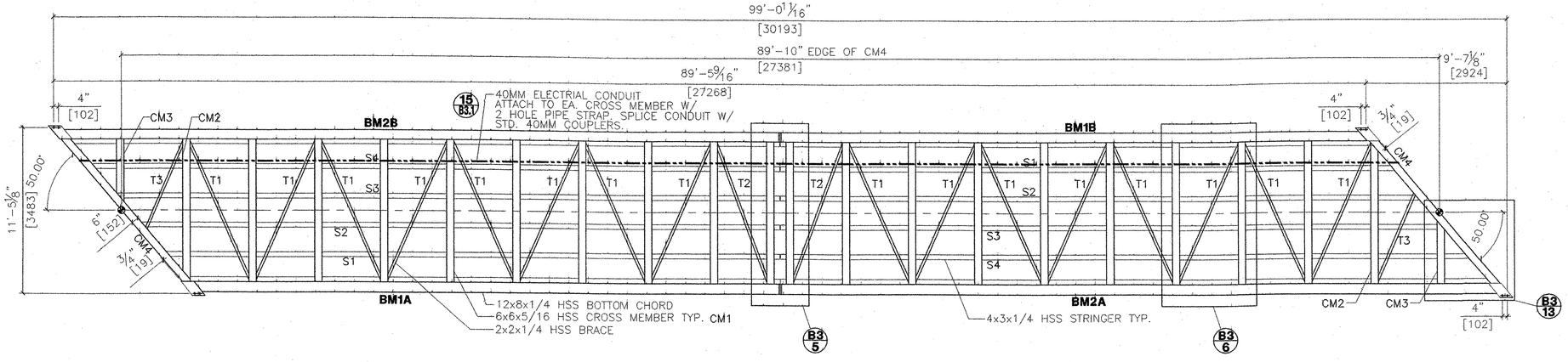
SHEET 30 OF 30



BRIDGE TOP VIEW
SCALE : 1/4" = 1'-0"



BRIDGE SIDE VIEW
SKEW NOT SHOWN FOR CLARITY
SCALE : 1/4" = 1'-0"



BRIDGE BOTTOM VIEW
SCALE : 1/4" = 1'-0"

EAGLE SPAN
102 West 4th St.
Loveland, CO 80537
(970) 669-2030
FAX (970) 669-2032

WHITCOMB CONSTR.

WHETSTONE BROOK PATH
PEDESTRIAN BRIDGE
WESTMINSTER, CO

REVISIONS	REV.	DATE
FOR OWNER APPROVAL	0	7/8/04
CUSTOMER CHANGES	1	7/27/04
RE-SUBMITTAL	2	9/3/04
RE-SUBMITTAL	3	10/12/04
AS MANUFACTURED	5	12/17/05

BIG R
MANUFACTURING, LLC
PO BOX 1290
GREELEY, COLORADO
PH: (970) 356 9600
FAX: (970) 356 9601

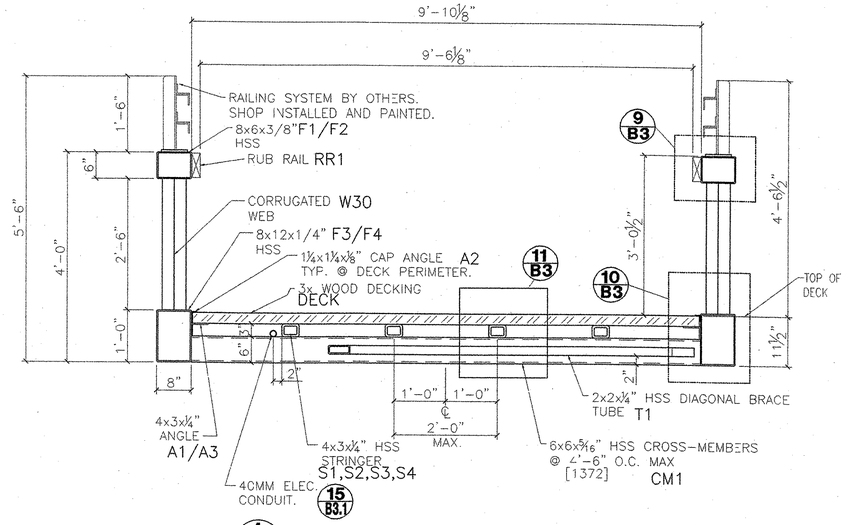
DRAWN: MDS
DATE: 7/1/04
CHECKED: SFP
DATE: 7/8/04
APPROVED: SFP

REV. 5

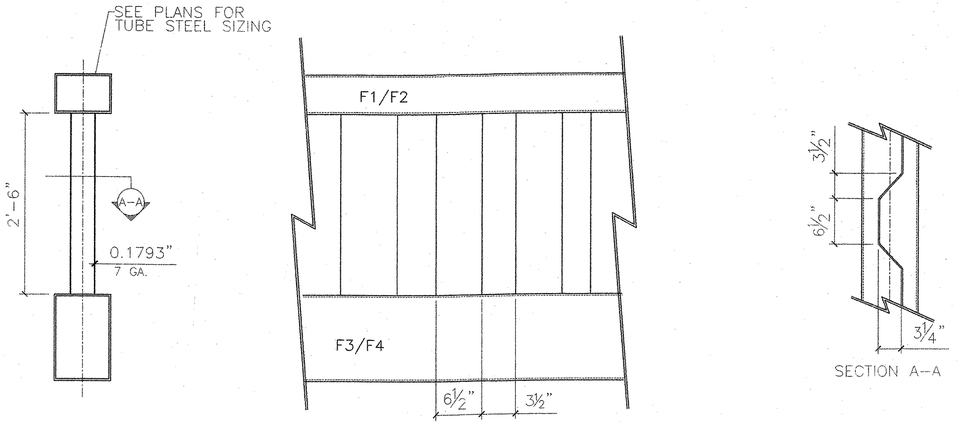
PROJECT NO. 24-7753

SHEET NO. B1

STATE OF VERMONT
SHANDER P. MANDAL
REGISTERED
PROFESSIONAL ENGINEER
FEB 18 2005

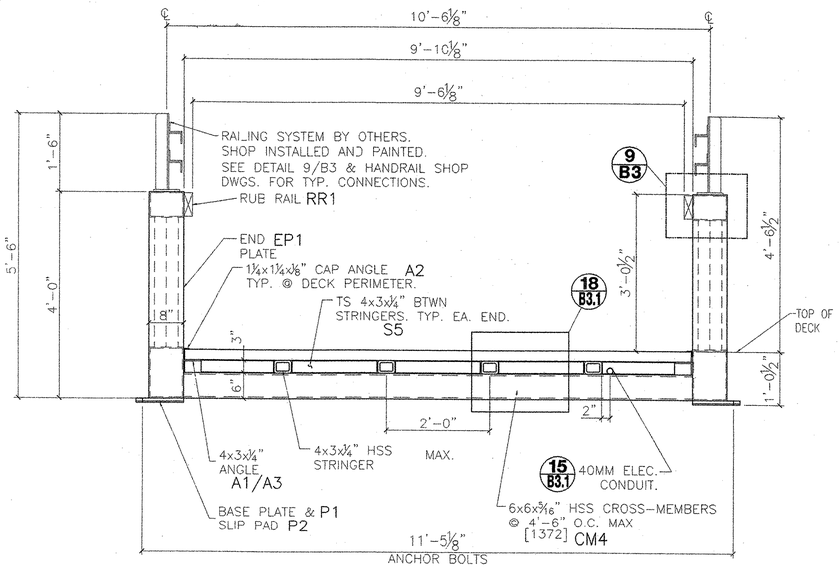


1 B2 BRIDGE TYPICAL SECTION



DETAIL OF CORRUGATED EAGLESPAN BEAM

SEE ALSO 14 B3



2 B2 BRIDGE TYPICAL END VIEW

MATERIALS LIST

MK #	QTY	MAT	DIMENSIONS			LENGTH / EA.	WT/FT	TTL LF	TTL WT	MINIMUN YIELD STRENGTH (KSI)
F1A	1	TS	8.0000	6.0000	0.3750	40'- 8 3/4	32.58	40.7	1326.96	46.00
F2A	1	TS	8.0000	6.0000	0.3750	49'- 6 1/4	32.58	49.5	1613.39	46.00
F3A	1	TS	12.0000	8.0000	0.2500	40'- 9 5/8	32.63	40.8	1331.37	46.00
F4A	1	TS	12.0000	8.0000	0.2500	49'- 5 1/2	32.63	49.5	1613.83	46.00
F1B	1	TS	8.0000	6.0000	0.3750	40'- 8 9/16	32.58	40.7	1326.45	46.00
F2B	1	TS	8.0000	6.0000	0.3750	49'- 6 5/8	32.58	49.6	1614.41	46.00
F3B	1	TS	12.0000	8.0000	0.2500	40'- 7 15/16	32.63	40.7	1326.78	46.00
F4B	1	TS	12.0000	8.0000	0.2500	49'- 7 7/16	32.63	49.6	1619.09	46.00
CM1	18	TS	6.0000	6.0000	0.3125	9'- 10	23.34	177.0	4131.18	46.00
CM2	2	TS	6.0000	6.0000	0.3125	9'- 10	23.34	19.7	459.02	46.00
CM3	2	TS	6.0000	6.0000	0.3125	4'- 5 5/16	23.34	8.9	207.39	46.00
CM4	2	TS	6.0000	6.0000	0.3125	13'- 3 1/4	23.34	26.5	619.48	46.00
T1	16	TS	2.0000	2.0000	0.2500	10'- 7 1/2	5.41	170.0	919.70	46.00
T2	2	TS	2.0000	2.0000	0.2500	10'- 4 5/8	5.41	20.8	112.37	46.00
T3	2	TS	2.0000	2.0000	0.2500	6'- 8 3/4	5.41	13.5	72.81	46.00
S1	2	TS	4.0000	3.0000	0.2500	42'- 6 9/16	10.51	85.1	894.34	46.00
S2	2	TS	4.0000	3.0000	0.2500	44'- 2 11/16	10.51	88.4	929.59	46.00
S3	2	TS	4.0000	3.0000	0.2500	45'- 10 7/8	10.51	91.8	964.95	46.00
S4	2	TS	4.0000	3.0000	0.2500	47'- 7	10.51	95.2	1000.20	46.00
S5	10	TS	4.0000	3.0000	0.2500	2'- 5 3/4	10.51	24.8	260.56	46.00
A1	4	L	4.0000	3.0000	0.2500	40'- 10 1/2	5.80	163.5	948.30	36.00
A8	4	L	4.0000	3.0000	0.2500	48'- 10	5.80	195.8	1132.93	36.00
A2	4	L	1.2500	1.2500	0.1250	49'- 1 1/2	1.01	196.5	198.47	36.00
EP1	4	FB	0.7500	10.0000	0.0000	4'- 0	25.52	16.0	408.32	36.00
SP1	4	FB	1.0000	8.0000	0.0000	4'- 8	27.20	18.7	507.73	50.00
P1	4	FB	0.7500	10.0000	-	0'- 10	25.52	3.3	85.07	36.00
P2	4	UHMWP	0.2500	10.0000	-	0'- 10	1.00	3.3	3.33	N/A
W30A	2	WEB	30.0000	0.1800		51'-	19.50	102.0	1989.00	30.00
W30B	2	WEB	30.0000	0.1800		61'- 11	19.50	123.8	2414.75	30.00
PAN	100	SCREW	#10	2.0000	-	2		0.0	5.00	N/A
TEK5	1300	SCREW	#12	3.5000	-	3 1/2		0.0	15.00	N/A
TEK5	100	SCREW	#12	2.5000	-	2 1/2		0.0	8.00	N/A
RR1	18	WOOD	2.0000	6.0000		10'- 0	2.00	180.0	360.00	N/A
CNDT	10	CONDUIT	1.5000	EMT		10'- 0	0.50	100.0	50.00	N/A
DECK	149	DECK	3.0000	8.0000	-	9'- 9 1/4	3.75	1455.9	5459.45	N/A
RAIL	2	RAIL	0.0000	0.0000	-	88'- 0	11.17	176.0	1965.92	N/A
BOLTS	28	A490	1.0000	3.5000	-	0'- 3 1/2	1.00	8.2	28.00	N/A

TOTAL WEIGHT POUNDS **37923.13**

STATE OF VERMONT — LANDER P. MANN — REGISTERED PROFESSIONAL ENGINEER — FEB 18 2005

EAGLE SPAN
102 West 4th St.
Loveland, CO 80537
ph: (970) 669-3566
fax: (970) 669-3568

WHITCOMB CONSTR.
WHETSTONE BROOK PATH
PEDESTRIAN BRIDGE
BENNINGTON, VT

REV.	DATE	REVISIONS
0	7/8/04	FOR OWNER APPROVAL
1	7/21/04	CUSTOMER CHANGES
2	9/3/04	RE-SUBMITTAL
3	10/12/04	RE-SUBMITTAL
4	2/11/05	AS MANUFACTURED

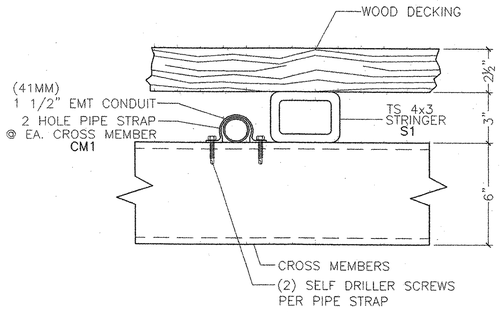
BIG R MANUFACTURING, LLC
PO BOX 1290
GREELEY, COLORADO
ph: (970) 356-9600
fax: (970) 356-9611

DRAWN: MDS
DATE: 7/7/04
CHECKED: SFP
DATE: 7/8/04
APPROVED: SFP

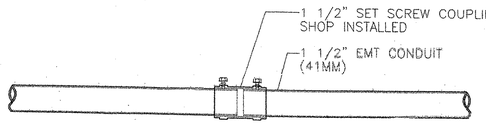
REV. 5

PROJECT NO. 24-7755

SHEET NO. B2

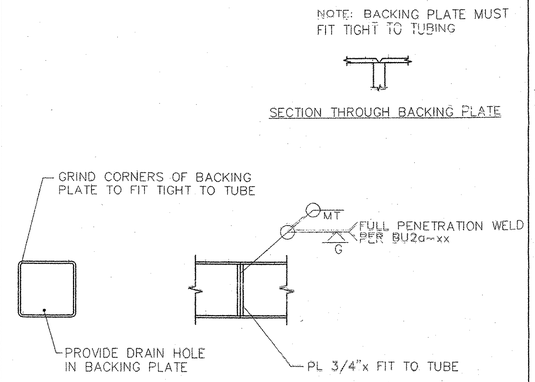


CONDUIT ATTACHMENT DETAIL

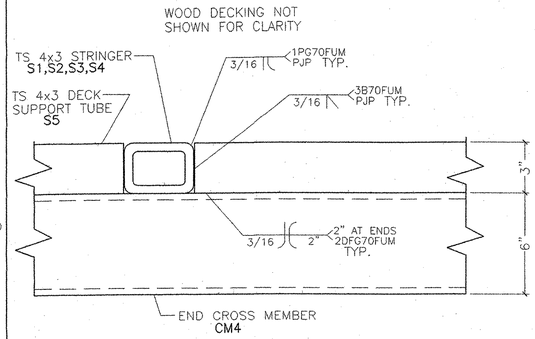


NOTE:
SET SCREW COUPLING MUST BE INSTALLED
NO MORE THAN 8" FROM CROSS MEMBER
OTHERWISE AS NEEDED.

CONDUIT SPLICE DETAIL



ALL LOCATIONS AS REQUIRED IN SHOP TYP.

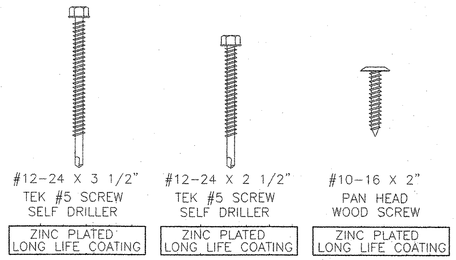


15 B3.1 **ENLARGED VIEW**
3" = 1'-0"

16 B3.1 **ENLARGED VIEW**
3" = 1'-0"

17 B3.1 **TYPICAL SHOP SPLICE DETAIL FOR TUBING**
N.T.S.

18 B3.1 **ENLARGED VIEW**
3" = 1'-0"



BRIDGE FASTENERS
N.T.S.

STATE OF VERMONT
THOMAS A. UNION
FEB 3401
FEB 18 2005
REGISTERED
PROFESSIONAL ENGINEER

EAGLE SPAN
102 West 4th St.
Lovelang, CO 80537
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fax: (970) 635-0886

WHITCOMB CONSTR.

WHETSTONE BROOK PATH
PEDESTRIAN BRIDGE
BENNINGTON, VT

REV.	DATE	REVISIONS
0	7/8/04	FOR OWNER APPROVAL
1	7/27/04	CUSTOMER CHANGES
2	9/3/04	RE-SUBMITTAL
3	10/12/04	RE-SUBMITTAL
4	12/13/04	RE-SUBMITTAL
5	2/17/05	AS MANUFACTURED

BIG R
MANUFACTURING, LLC
PO BOX 1290
GREELEY, COLORADO
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fx: (970) 356 9664

DRAWN: MDS
DATE: 7/7/04
CHECKED: SFP
DATE: 7/8/04
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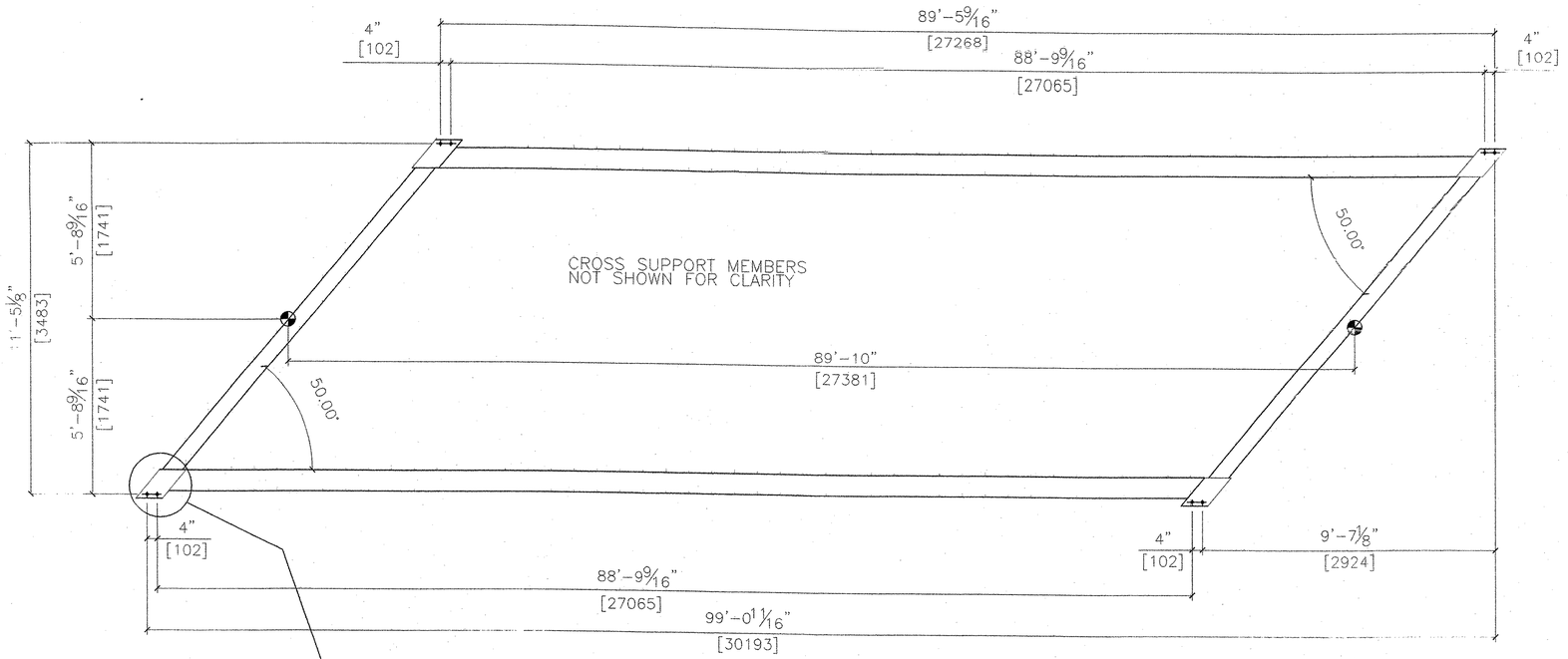
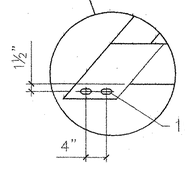
REV. 5

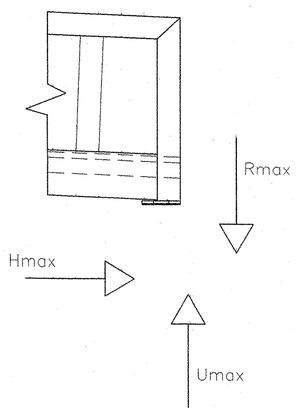
PROJECT NO. 24-7758

SHEET NO. B3.1



ANCHOR BOLT SETTING PLAN





DESIGN LOADS:

30 PSF SNOW
85 PSF LIVE LOAD
SEISMIC 1
90 MPH WIND – EXPOSURE C
20,000 LB. CONCENTRATED LOAD

AASHTO H10 VEHICLE LOAD

BRIDGE REACTIONS

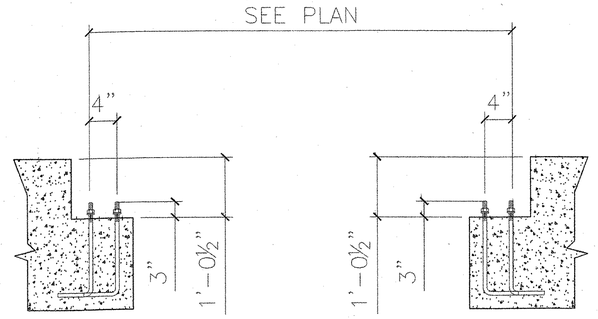
(ALL REACTIONS ARE IN KIPS)

PER BASE PLATE	Rmax	HLmax	HTmax	Umax
TYPICAL	29.53	9.4	2.8	0.0

THESE REACTIONS APPLY TO EACH BASE PLATE,
THERE ARE A TOTAL OF (4) BASE PLATES FOR THIS BRIDGE STRUCTURE

HL = HORIZONTAL REACTION IN THE LONGITUDINAL DIRECTION (PARALLEL TO BRIDGE)
HT = HORIZONTAL REACTION IN THE TRANSVERSE DIRECTION (PERPENDICULAR TO BRIDGE)
R = MAXIMUM DOWNWARD VERTICAL REACTION
U = MAXIMUM UPWARD REACTION (NET)

NOTE:
WEIGHT OF RAILING BY OTHERS HAS BEEN INCLUDED IN THE DESIGN OF THIS BRIDGE.



CONCRETE FOOTING NOT BY EAGLESPAN

CONCRETE FOOTING DETAIL

ALL ANCHOR RODS ARE 3/4" DIA. (A1554)

STATE OF VERMONT
CHANDER P. NAGPAL
No. 10840
REGISTERED
PROFESSIONAL ENGINEER
FEB 18 2005

EAGLE SPAN
1402 West 4th St.
Loveland, CO 80537
ph: (970) 667-2232
fax: (970) 667-2299

WHITCOMB CONSTR.

WHETSTONE BROOK PATH
PEDESTRIAN BRIDGE
[illegible]

REVISIONS	REV.	DATE
FOR OWNER APPROVAL	Ø	7/8/04
CUSTOMER CHANGES	1	7/21/04
RE-SUBMITTAL	2	9/3/04
RE-SUBMITTAL	3	10/12/04
RE-SUBMITTAL	4	12/17/04
AS MANUFACTURED	5	1/11/05

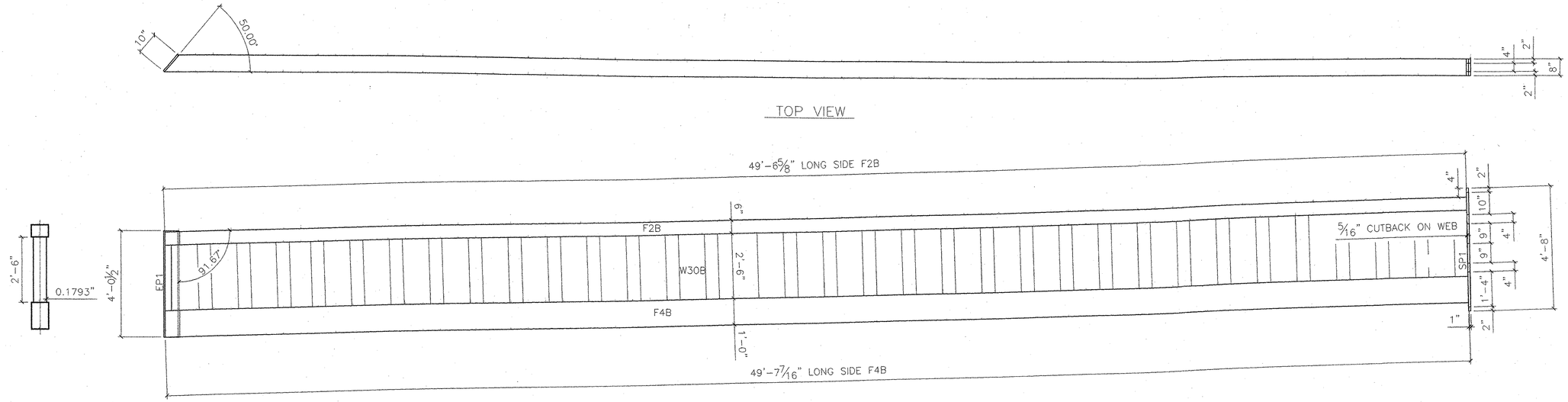
BIG R MANUFACTURING, LLC
PO BOX 1290
GREELEY, COLORADO
ph: (970) 356-3600
fx: (970) 356-3626

DRAWN: MDS
DATE: 7/7/04
CHECKED: SFP
DATE: 7/8/04
APPROVED: SFP

REV. 5

PROJECT NO. 24-775E

SHEET NO. B4

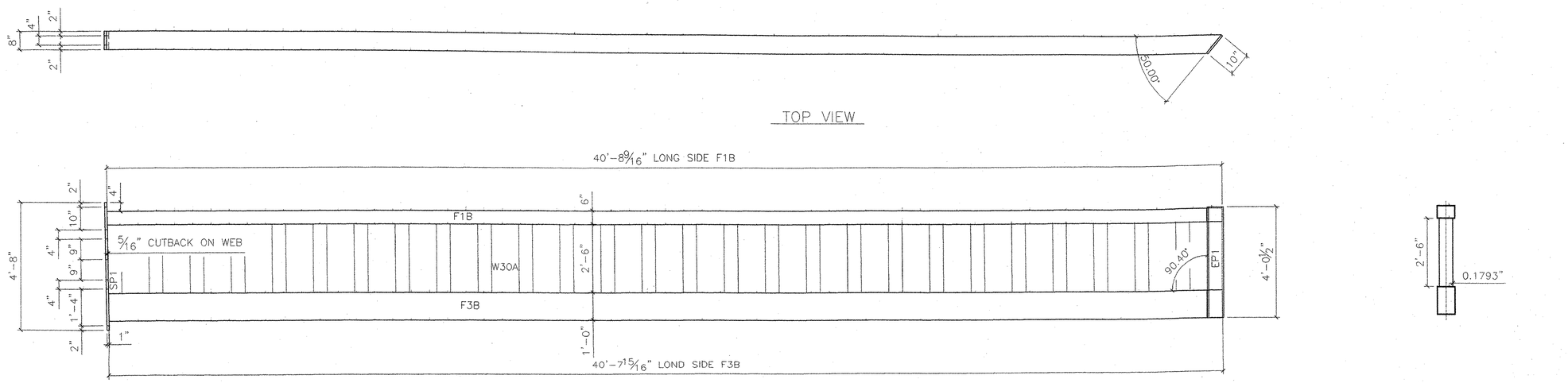


(1) BRIDGE BEAM BM2B

MK	QTY	DESCRIPTION	MK	QTY	DESCRIPTION	MK	QTY	DESCRIPTION	MK	QTY	DESCRIPTION
F2B	1	TS 8 X 6 X 3/8	–	–	–	–	–	–	–	–	–
F4B	1	TS 12 X 8 X 1/4	–	–	–	–	–	–	–	–	–
SP1	1	FB 1 X 8	–	–	–	–	–	–	–	–	–
EP1	1	FB 3/4 X 10	–	–	–	–	–	–	–	–	–
W30B	1	CORRUGATED WEB .7GA. X 30"	–	–	–	–	–	–	–	–	–

D3

REV	DATE	DESCRIPTION



(1) BRIDGE BEAM BM1B

MK	QTY	DESCRIPTION	MK	QTY	DESCRIPTION	MK	QTY	DESCRIPTION	MK	QTY	DESCRIPTION
F1B	1	TS 8 X 6 X 3/8	–	–	–	–	–	–	–	–	–
F3B	1	TS 12 X 8 X 1/4	–	–	–	–	–	–	–	–	–
SP1	1	FB 1 X 8	–	–	–	–	–	–	–	–	–
EP1	1	FB 3/4 X 10	–	–	–	–	–	–	–	–	–
W30A	1	CORRUGATED WEB .7GA. X 30"	–	–	–	–	–	–	–	–	–

D4

FEB 18 2005

EAGLE SPAN
102 West 4th St.
Loveland, CO 80537
(970) 663-0555
FAX (970) 663-0599

WHITCOMB CONSTR.

WHETSTONE BROOK PATH
PEDESTRIAN BRIDGE
LOVELAND, CO

REVISIONS

REV.	DATE	
0	7/8/04	FOR OWNER APPROVAL
1	7/21/04	CUSTOMER CHANGES
2	9/3/04	RE-SUBMITTAL
3	10/12/04	RE-SUBMITTAL
4	1/11/05	AS MANUFACTURED

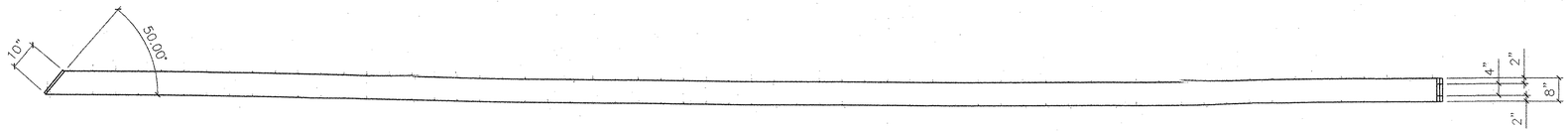
BIG R
MANUFACTURING, LLC
PO BOX 1290
GREELEY, COLORADO
PH: (970) 356-9600
FX: (970) 352-0521

DRAWN: MDS
DATE: 7/7/04
CHECKED: SFP
DATE: 7/8/04
APPROVED: SFP

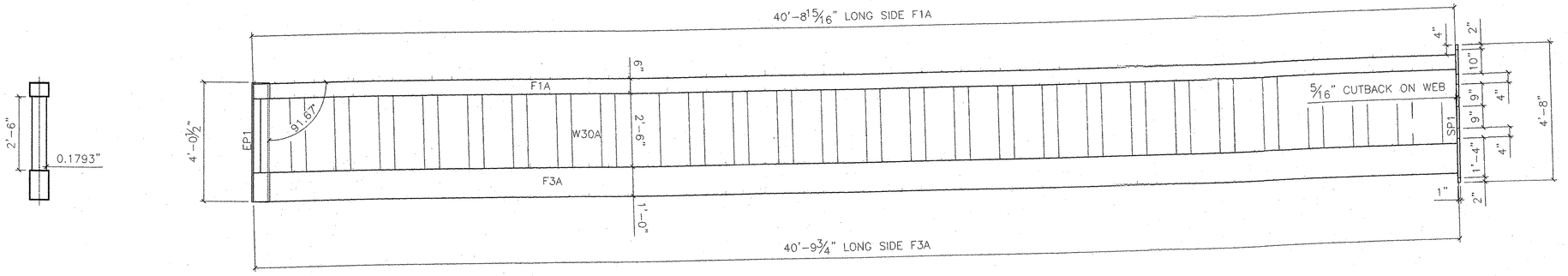
REV. 5

PROJECT NO. 24-775E

SHEET NO. B5.1



TOP VIEW

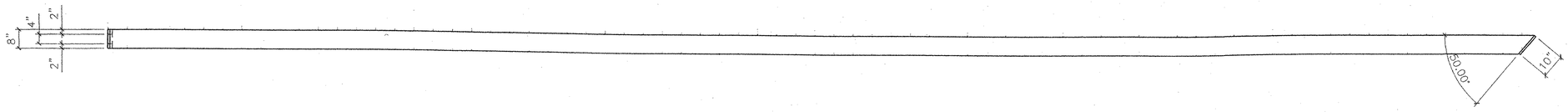


(1) BRIDGE BEAM BM1A

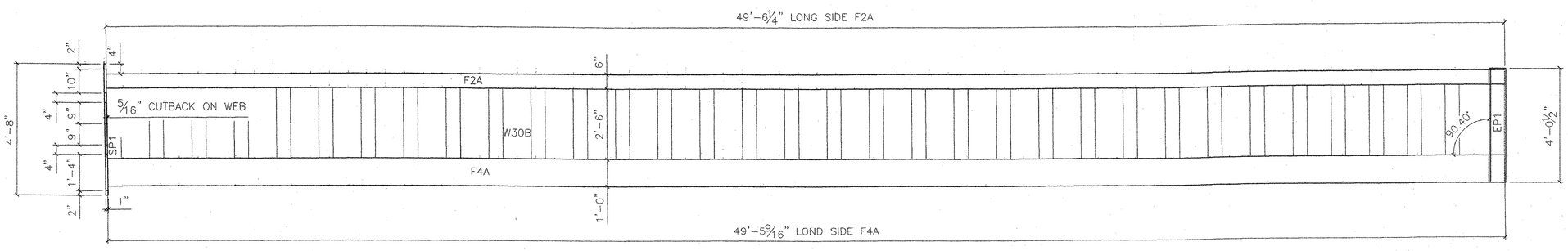
MK	QTY	DESCRIPTION	MK	QTY	DESCRIPTION	MK	QTY	DESCRIPTION	MK	QTY	DESCRIPTION
F1A	1	TS 8 X 6 X 3/8	–	–	–	–	–	–	–	–	–
F3A	1	TS 12 X 8 X 1/4	–	–	–	–	–	–	–	–	–
SP1	1	FB 1 X 8	–	–	–	–	–	–	–	–	–
EP1	1	FB 3/4 X 10	–	–	–	–	–	–	–	–	–
W30A	1	CORRUGATED WEB 7GA. X 30"	–	–	–	–	–	–	–	–	–

D1

REV	DATE	DESCRIPTION



TOP VIEW



(1) BRIDGE BEAM BM2A

MK	QTY	DESCRIPTION	MK	QTY	DESCRIPTION	MK	QTY	DESCRIPTION	MK	QTY	DESCRIPTION
F2A	1	TS 8 X 6 X 3/8	–	–	–	–	–	–	–	–	–
F4A	1	TS 12 X 8 X 1/4	–	–	–	–	–	–	–	–	–
SP1	1	FB 1 X 8	–	–	–	–	–	–	–	–	–
EP1	1	FB 3/4 X 10	–	–	–	–	–	–	–	–	–
W30B	1	CORRUGATED WEB 7GA. X 30"	–	–	–	–	–	–	–	–	–

D2

STATE OF VERMONT
LONDER R. NADEAU
No. 3401
FEB 18 2005
REGISTERED PROFESSIONAL ENGINEER

REVISIONS

REV.	DATE	
0	7/8/04	FOR OWNER APPROVAL
1	7/21/04	CUSTOMER CHANGES
2	9/3/04	RE-SUBMITTAL
3	10/12/04	RE-SUBMITTAL
4	12/17/04	RE-SUBMITTAL
5	1/27/05	AS MANUFACTURED

EAGLE SPAN
102 West 4th St.
Loveland, CO 80537
(970) 635-0635
FAX (970) 635-0636

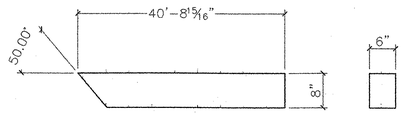
WHITCOMB CONSTR.

WHETSTONE BROOK PATH
PEDESTRIAN BRIDGE
LOVELAND, CO

BIG R MANUFACTURING, LLC
PO BOX 1290
GREELEY, COLORADO
PH: (970) 356 9600
FX: XXXX XXX XXXX

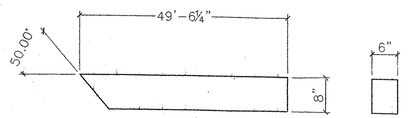
DRAWN: MDS
DATE: 7/7/04
CHECKED: SFP
DATE: 7/8/04
APPROVED: SFP

REV. 5
PROJECT NO. 24-7752
SHEET NO. B5



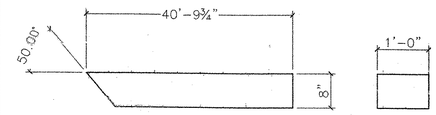
MIN. YIELD STRENGTH 46 KS1

MK	QTY.	MATERIAL
F1A	1	TS 8 X 6 X 3/8



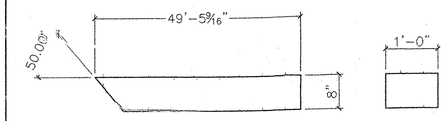
MIN. YIELD STRENGTH 46 KS1

MK	QTY.	MATERIAL
F2A	1	TS 8 X 6 X 3/8



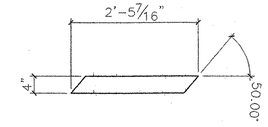
MIN. YIELD STRENGTH 46 KS1

MK	QTY.	MATERIAL
F3A	1	TS 12 X 8 X 1/4



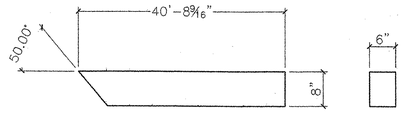
MIN. YIELD STRENGTH 46 KS1

MK	QTY.	MATERIAL
F4A	1	TS 12 X 8 X 1/4



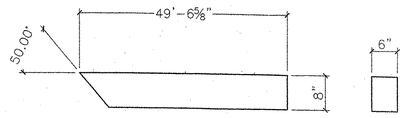
MIN. YIELD STRENGTH 46 KS1

MK	QTY.	MATERIAL
S5	10	TS 4 X 3 X 1/4



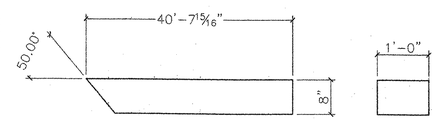
MIN. YIELD STRENGTH 46 KS1

MK	QTY.	MATERIAL
F1B	1	TS 8 X 6 X 3/8



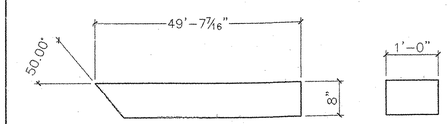
MIN. YIELD STRENGTH 46 KS1

MK	QTY.	MATERIAL
F2B	1	TS 8 X 6 X 3/8



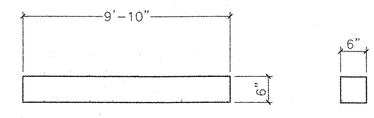
MIN. YIELD STRENGTH 46 KS1

MK	QTY.	MATERIAL
F3B	1	TS 12 X 8 X 1/4



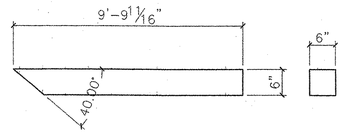
MIN. YIELD STRENGTH 46 KS1

MK	QTY.	MATERIAL
F4B	1	TS 12 X 8 X 1/4



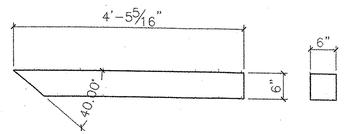
MIN. YIELD STRENGTH 46 KS1

MK	QTY.	MATERIAL
CM1	18	TS 6 X 6 X 5/16



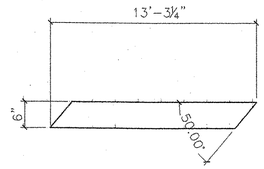
MIN. YIELD STRENGTH 46 KS1

MK	QTY.	MATERIAL
CM2	2	TS 6 X 6 X 5/16



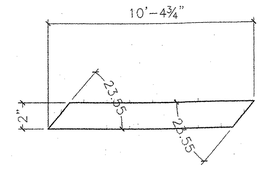
MIN. YIELD STRENGTH 46 KS1

MK	QTY.	MATERIAL
CM3	2	TS 6 X 6 X 5/16



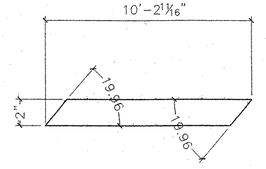
MIN. YIELD STRENGTH 46 KS1

MK	QTY.	MATERIAL
CM4	2	TS 6 X 6 X 5/16



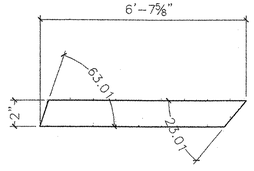
MIN. YIELD STRENGTH 46 KS1

MK	QTY.	MATERIAL
T1	16	TS 2 X 2 X 1/4



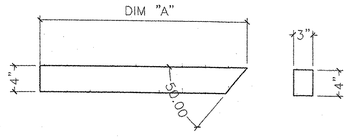
MIN. YIELD STRENGTH 46 KS1

MK	QTY.	MATERIAL
T2	2	TS 2 X 2 X 1/4



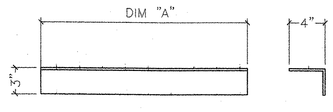
MIN. YIELD STRENGTH 46 KS1

MK	QTY.	MATERIAL
T3	2	TS 2 X 2 X 1/4



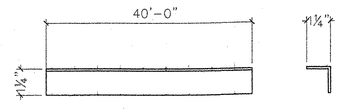
MIN. YIELD STRENGTH 46 KS1

MK	QTY.	MATERIAL	"A"
S1	2	TS 4 X 3 X 1/4	42'-6 9/16
S2	2	TS 4 X 3 X 1/4	44'-2 11/16
S3	2	TS 4 X 3 X 1/4	45'-10 7/8
S4	2	TS 4 X 3 X 1/4	47'-7



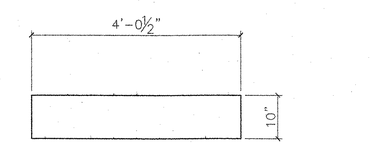
MIN. YIELD STRENGTH 36 KS1

MK	QTY.	MATERIAL	"A"
A1	2	L 4 X 3 X 1/4	40'-10 1/2
A3	2	L 4 X 3 X 1/4	48'-10



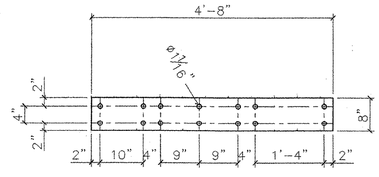
MIN. YIELD STRENGTH 36 KS1

MK	QTY.	MATERIAL
A2	6	L 1 1/4 X 1 1/4 X 1/8



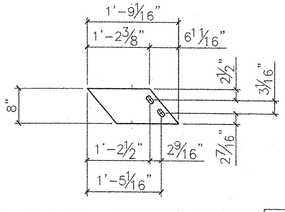
MIN. YIELD STRENGTH 36 KS1

MK	QTY.	MATERIAL
EP1	4	FB 3/4 X 10



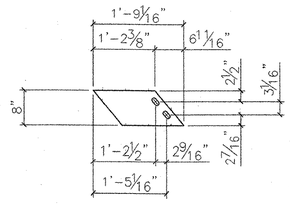
MIN. YIELD STRENGTH 50 KS1

MK	QTY.	MATERIAL
SP1	4	FB 1 X 8

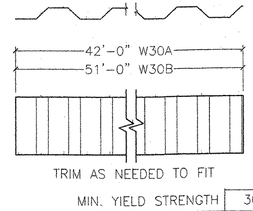


15/16" x 2" SLOTS MIN. YIELD STRENGTH 36 KS1

MK	QTY.	MATERIAL
P1	4	FB 3/4 X 8

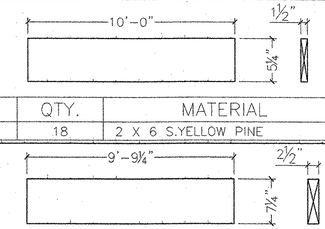


MK	QTY.	MATERIAL
P2	4	UHMWP 1/4 X 8



MIN. YIELD STRENGTH 30 KS1

MK	QTY.	MATERIAL
W30A	2	7GA. X 30" CORRUGATED WEB
W30B	2	7GA. X 30" CORRUGATED WEB



MK	QTY.	MATERIAL
RR1	18	2 X 6 S.YELLOW PINE

MK	QTY.	MATERIAL
DECK	149	3 X 8 S.YELLOW PINE

MATERIALS CUT LIST

N.T.S.

EAGLE SPAN
122 West 4th St.
Loveland, CO 80537
(970) 593-0550
FAX (970) 593-0553

WHITCOMB CONSTR.

WHETSTONE BROOK PATH
PEDESTRIAN BRIDGE
HEATHERWOOD, VT

REVISIONS

REV.	DATE	
0	7/8/04	FOR OWNER APPROVAL
1	7/21/04	CUSTOMER CHANGES
2	9/3/04	RE-SUBMITTAL
3	10/12/04	RE-SUBMITTAL
4	11/1/04	RE-SUBMITTAL
5	11/17/05	AS MANUFACTURED

BIG R MANUFACTURING, LLC
PO BOX 1290
GREELEY, COLORADO
ph: (970) 356 9600
fax: (970) 356 9601

DRAWN: MDS
DATE: 7/1/04
CHECKED: SFP
DATE: 7/8/04
APPROVED: SFP

REV. 5

PROJECT NO. 24-7752

SHEET NO. B6

STATE OF VERMONT
TIMOTHY P. MAGUIRE
REGISTERED PROFESSIONAL ENGINEER
FEB 01 2005

EAGLESPAN STEEL STRUCTURES, INC.

102 WEST FOURTH STREET
LOVELAND, COLORADO 80537

PHONE (970) 593-0596
FAX (970) 593-0583

WHETSTONE BROOK PATHWAY

PEDESTRIAN BRIDGE

BRATTLEBORO, VERMONT

FRANK W. WHITCOMB CONSTRUCTION, CORP.

ACCEPTED
ACCEPTED AS CORRECTED
REJECTED, REVISE AND RESUBMIT
REJECTED, UNACCEPTABLE
Checking is only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. The Engineer assumes no liability for errors or omissions that may be contained herein. The Contractor, by approving and submitting these documents, verifies their accuracy as stipulated on the Contractor's Shop Drawing Stamp.
DuBOIS AND KING
Date 4.5.05 By JLOT

CONTRACTORS NOTE

All dimensions shown must be verified by the customer named on the contract, who has sole responsibility for verifying and approving job requirements.

Quantities, lengths, items and dimensions not changed by the customer named on the contract will be assumed to be correct and acceptable.

Fabrication will not begin until all dimensions and quantities are verified, and until signed and approved shop drawings are received by EagleSpan Steel Structures, Inc.

_____ Approved

_____ Approved as Noted

_____ Disapproved/Correct as Noted/Resubmit

Signed _____ Date _____

BUILDER/CONTRACTOR RESPONSIBILITIES

1) IT IS THE RESPONSIBILITY OF THE BUILDER/CONTRACTOR TO ENSURE THAT ALL PROJECT PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF ANY GOVERNING BUILDING AUTHORITIES. THE SUPPLYING OF SEALED ENGINEERING DATA AND DRAWINGS FOR THE STEEL BRIDGE SYSTEM DOES NOT IMPLY OR CONSTITUTE AN AGREEMENT THAT THE BRIDGE MANUFACTURER OR ITS DESIGN ENGINEER IS ACTING AS THE ENGINEER OR DESIGN PROFESSIONAL FOR THE CONSTRUCTION PROJECT.
2) THE CONTRACTOR MUST SECURE ALL REQUIRED APPROVALS AND PERMITS FROM THE APPROPRIATE AGENCY AS REQUIRED.
3) WHERE DISCREPANCIES EXIST BETWEEN THE MANUFACTURER'S STRUCTURAL STEEL PLANS AND THE PLANS FOR OTHER TRADES, THE STRUCTURAL STEEL PLANS SHALL GOVERN. (SECT. 3.3, AISC CODE OF STANDARD PRACTICE, 9TH ED.) NOTIFY THE MANUFACTURER OF ALL DISCREPANCIES.
4) PRODUCTS SHIPPED TO BUILDER OR HIS CUSTOMER SHALL BE INSPECTED WITHIN 72 HOURS UPON ARRIVAL.
5) ALL BRACING AS SHOWN AND PROVIDED BY THE MANUFACTURER FOR THIS BRIDGE IS REQUIRED AND SHALL BE INSTALLED BY THE ERECTOR AS A PERMANENT PART OF THE STRUCTURE.

GENERAL NOTES

1) THE STRUCTURE UNDER THIS CONTRACT HAS BEEN DESIGNED AND DETAILED FOR THE LOADS AND CONDITIONS STIPULATED IN THE CONTRACT AND SHOWN ON THESE DRAWINGS. ANY ALTERATIONS TO THE STRUCTURAL SYSTEM OR REMOVAL OF ANY COMPONENT PARTS, OR THE ADDITION OF OTHER CONSTRUCTION MATERIALS OR LOADS MUST BE DONE UNDER THE ADVICE OF A REGISTERED STRUCTURAL ENGINEER. THE BRIDGE MANUFACTURER ASSUMES NO RESPONSIBILITY FOR ANY LOADS NOT INDICATED.
2) STRUCTURAL BOLTS ARE A490. ANCHOR BOLTS ARE A1554.
3) DRAWINGS MAY NOT BE TO SCALE. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
4) MATERIAL PROPERTIES OF STEEL PLATES, TUBING, AND FOLDED WEBS USED IN FABRICATION OF PRIMARY RIGID FRAMES AND ALL PRIMARY STRUCTURAL FRAMING MEMBERS (OTHER THAN COLD-FORMED MEMBERS) CONFORM TO ASTM-A36, ASTM A992, ASTM-A500, GR60 AND ASTM 570, GR55.
5) ALL HIGH STRENGTH BOLTS SHALL BE INSTALLED USING THE "TURN OF THE NUT" METHOD SPECIFIED IN THE NINTH EDITION OF AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". IT IS THE RESPONSIBILITY OF THE ERECTOR TO ENSURE PROPER TIGHTNESS.
6) ALL WELDS SHALL BE E70 KSI ELECTRODES UNLESS OTHERWISE NOTED. ALL WELDING & GAS CUTTING SHALL BE IN ACCORDANCE WITH CURRENT STANDARDS OF THE AMERICAN WELDING SOCIETY AND PERFORMED BY CERTIFIED WELDERS
7) STRUCTURAL COMPONENTS SHALL MEET AASHTO H10 VEHICLE AND 85PSF PEDESTRIAN LIVE LOADS AS SHOWN ON THE CONTRACT DOCUMENTS.
8) DO NOT APPLY ANY DUST PROHIBITING OR DE-ICING CHEMICALS OR SALTING AGENTS TO ANY SURFACE OF THIS BRIDGE.

BRIDGE CLEANING & PAINTING NOTES

1) ALL SURFACES OF BRIDGE SHALL BE CLEANED IN ACCORDANCE WITH SSPC-SP10 TO REMOVE GREASE, OIL, DUST, MILL SCALE, OXIDATION, AND OTHER CONTAMINANTS BEFORE PRIMER AND PAINT IS APPLIED.
2) EXTERIOR BRIDGE PAINT SHALL MEET VERMONT AGENCY OF TRANSPORTATION 2004 QUALIFIED PRODUCTS LIST FOR PROTECTIVE COATINGS FOR NEW AND 100% BARE EXISTING STEEL FOR BRIDGES. PAINT SHALL CONFORM TO NEPCOAT REQUIREMENTS FOR NEW STEEL BRIDGES.
3) PAINT COLOR TO BE BLACK.
PAINT COATING TO BE SHERWIN WILLIAMS 3 PART SYSTEM.
PRIMER = ZINC CLAD III HS
MIDCOAT = MACROPOXY 646
TOP COAT = ACROLON 218 ACRYLIC
4) ALL PAINT APPLICATIONS TO BE DONE WITH AIR ASSISTED AIRLESS PORTABLE PUMP -HVLP- PAINT SYSTEM.
5) SEE PAINT MANUFACTURER'S SPECIFICATIONS FOR MAINTENANCE AND CLEANING OF FINISHED PRODUCT.

APPROVAL NOTES

1) APPROVAL OF THESE DRAWINGS INDICATES CONCLUSIVELY THAT THE MANUFACTURER HAS CORRECTLY INTERPRETED THE CONTRACT REQUIREMENTS, AND FURTHER CONSTITUTES AGREEMENT THAT THE BRIDGE AS DRAWN, OR AS DRAWN WITH INDICATED CHANGES REPRESENTS THE TOTALITY OF THE MATERIALS TO BE SUPPLIED BY THE MANUFACTURER.
2) IT IS IMPERATIVE THAT ANY CHANGES TO THESE DRAWINGS BE MADE IN CONTRASTING INK, BE LEGIBLE AND UNAMBIGUOUS AND HAVE ALL INSTANCES OF CHANGE CLEARLY INDICATED.
3) ANY CHANGES NOTED ON THE DRAWINGS NOT IN CONFORMANCE WITH THE TERMS AND REQUIREMENTS OF THE CONTRACT BETWEEN MANUFACTURER AND IT'S CUSTOMER ARE NOT BINDING ON MANUFACTURER UNLESS SUBSEQUENTLY SPECIFICALLY ACKNOWLEDGED AND AGREED TO IN WRITING BY CHANGE ORDER OR SEPARATE DOCUMENTATION.

SAFETY COMMITMENT

1) THE BRIDGE MANUFACTURER HAS A COMMITMENT TO MANUFACTURE QUALITY COMPONENTS THAT CAN BE SAFELY ERECTED. HOWEVER THE SAFETY, COMMITMENT AND JOBSITE PRACTICES OF THE ERECTOR ARE BEYOND THE CONTROL OF THE BRIDGE MANUFACTURER. IT IS STRONGLY RECOMMENDED THAT SAFE WORKING CONDITIONS AND ACCIDENT PREVENTION PRACTICES BE THE TOP PRIORITY OF ANY JOB SITE.

FOUNDATION NOTES

1) EAGLESPAN STEEL STRUCTURES, INC. IS NOT RESPONSIBLE FOR THE FOUNDATION OR THE DESIGN OF THE FOUNDATION UNLESS SPECIFICALLY STATED ON THE CONTRACT.
2) ANCHOR BOLTS ARE NOT PROVIDED BY EAGLESPAN. ALL ANCHOR BOLTS SHALL BE ASTM A307 UNLESS NOTED OTHERWISE.
3) ANCHOR BOLTS MUST BE SET FROM STAMPED ENGINEERED PLANS.
4) THE PROJECT CONCRETE CONTRACTOR IS RESPONSIBLE FOR ANCHOR BOLT SETTING AND MAINTAINING A SQUARE AND LEVEL CONCRETE BEARING SURFACE.

** BRATTLEBORO STP BIKE(27)S

FINAL AS-MANUFACTURED DRAWINGS FOR PED. BRIDGE

STRUCTURAL ONLY
FOUNDATION BY OTHERS
STATE OF VERMONT
CHANDER P. NARULA
No. 10,510
REGISTERED PROFESSIONAL ENGINEER
FEB 18 2005
This drawing was prepared by
And/or under the supervision
Of Chander P. Narula, P.E.

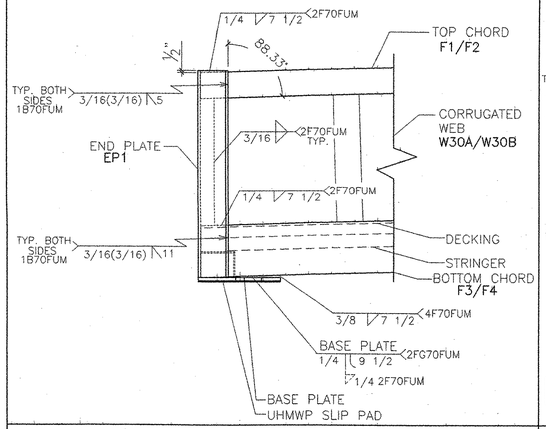
EAGLE SPAN
102 West 4th St.
Loveland, CO 80537
(970) 593-0596
FAX (970) 593-0583

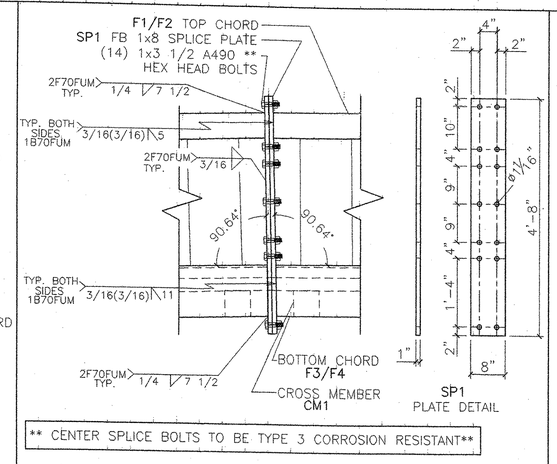
WHITCOMB CONSTR.
WHETSTONE BROOK PATH
PEDESTRIAN BRIDGE
BRATTLEBORO, VT

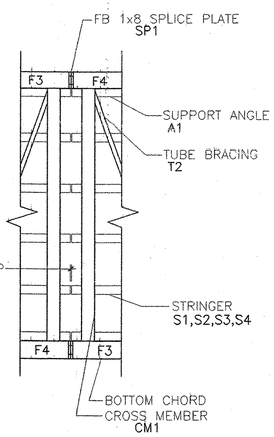
REV.	DATE	REVISIONS
0	7/8/04	FOR OWNER APPROVAL
1	7/21/04	CUSTOMER CHANGES
2	9/3/04	RE-SUBMITTAL
3	10/12/04	RE-SUBMITTAL
4	12/17/04	RE-SUBMITTAL
5	1/28/05	AS MANUFACTURED

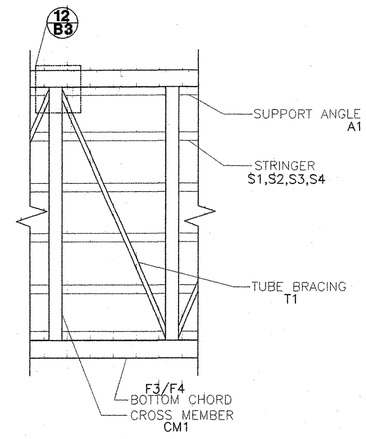
BIG R MANUFACTURING, LLC
PO BOX 1290
GREELEY, COLORADO
PH: (970) 356-9800
FAX: (970) 356-9811

DRAWN: MDS
DATE: 7/1/04
CHECKED: SFP
DATE: 7/8/04
APPROVED: SFP
REV. 5
PROJECT NO. 24-7753
SHEET NO. C1

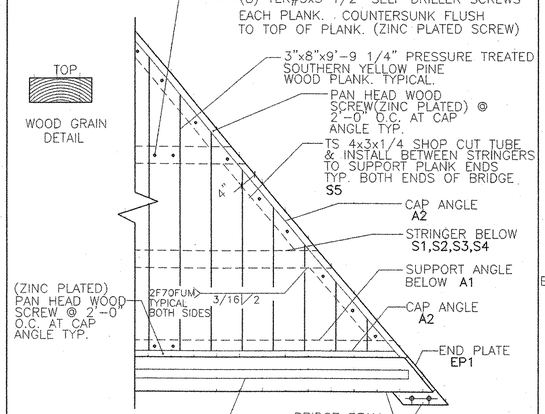




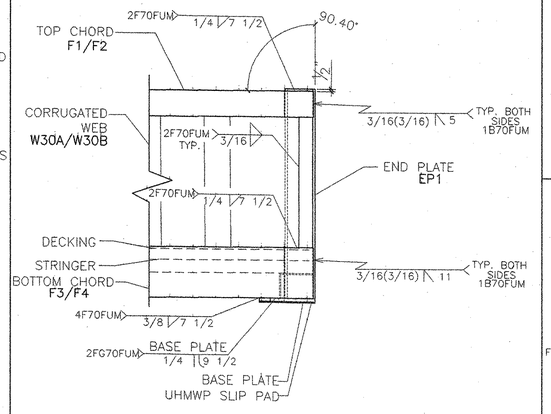




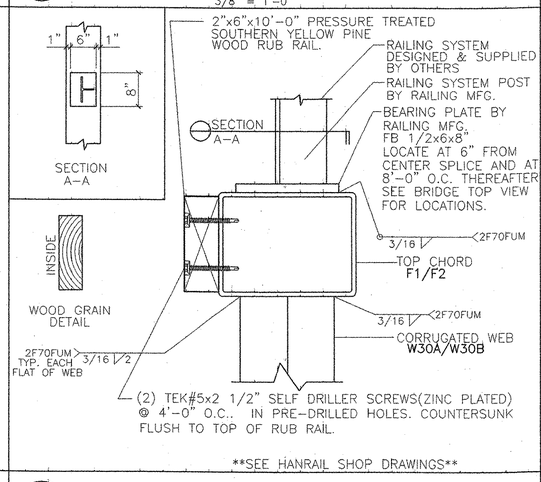
3 B3 ENLARGED VIEW
3/4" = 1'-0"



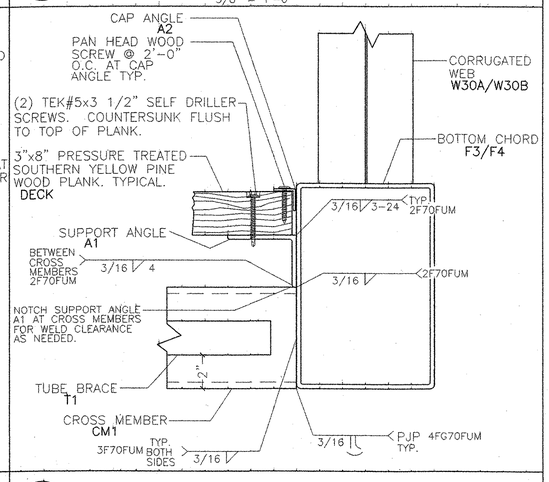
4 B3 ENLARGED VIEW
3/4" = 1'-0"



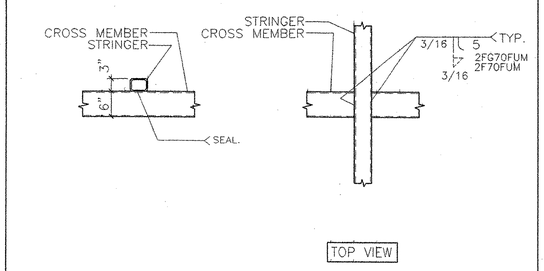
5 B3 ENLARGED VIEW
3/8" = 1'-0"



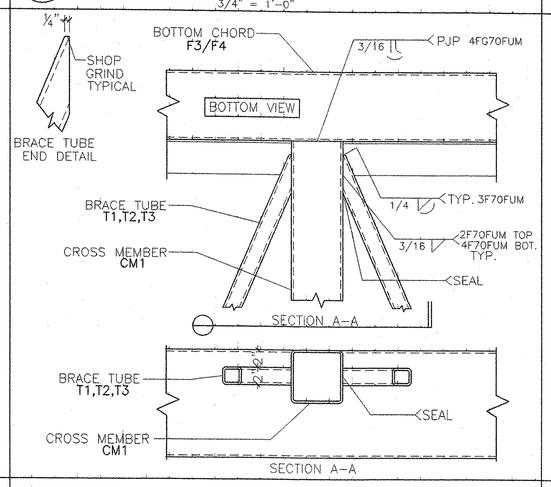
6 B3 ENLARGED VIEW
3/8" = 1'-0"



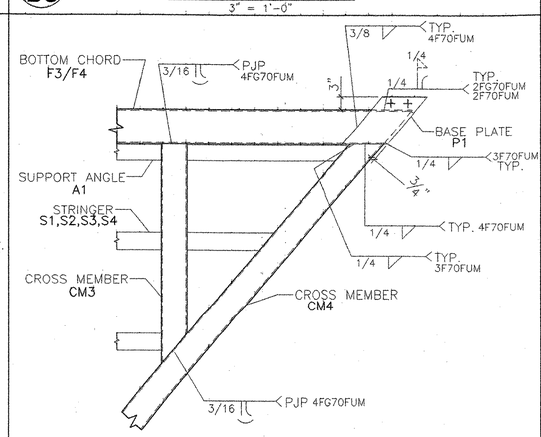
7 B3 ENLARGED VIEW
3/4" = 1'-0"



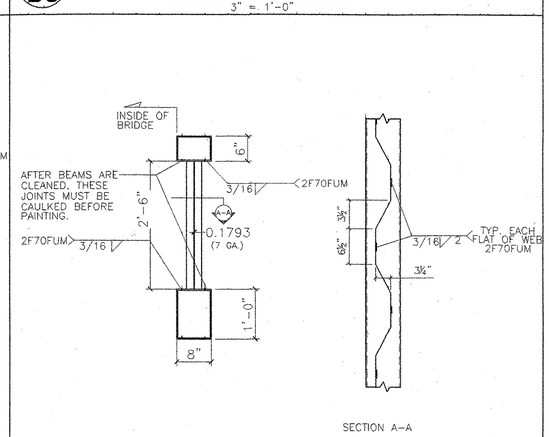
8 B3 ENLARGED VIEW
3/4" = 1'-0"



9 B3 ENLARGED VIEW
3" = 1'-0"



10 B3 ENLARGED VIEW
3" = 1'-0"



11 B3 ENLARGED VIEW
3/4" = 1'-0"

12 B3 ENLARGED VIEW
1 1/2" = 1'-0"

13 B3 ENLARGED VIEW
3/4" = 1'-0"

14 B3 EAGLE BEAM SECTION
3/4" = 1'-0"

STATE OF VERMONT — JAMES A. MANN — 13403 — REGISTERED PROFESSIONAL ENGINEER — FEB 18 2005

EAGLE SPAN
1102 Industrial Park Dr.
Lovell, ME 04051
(207) 925-3000
FAX (207) 925-3005

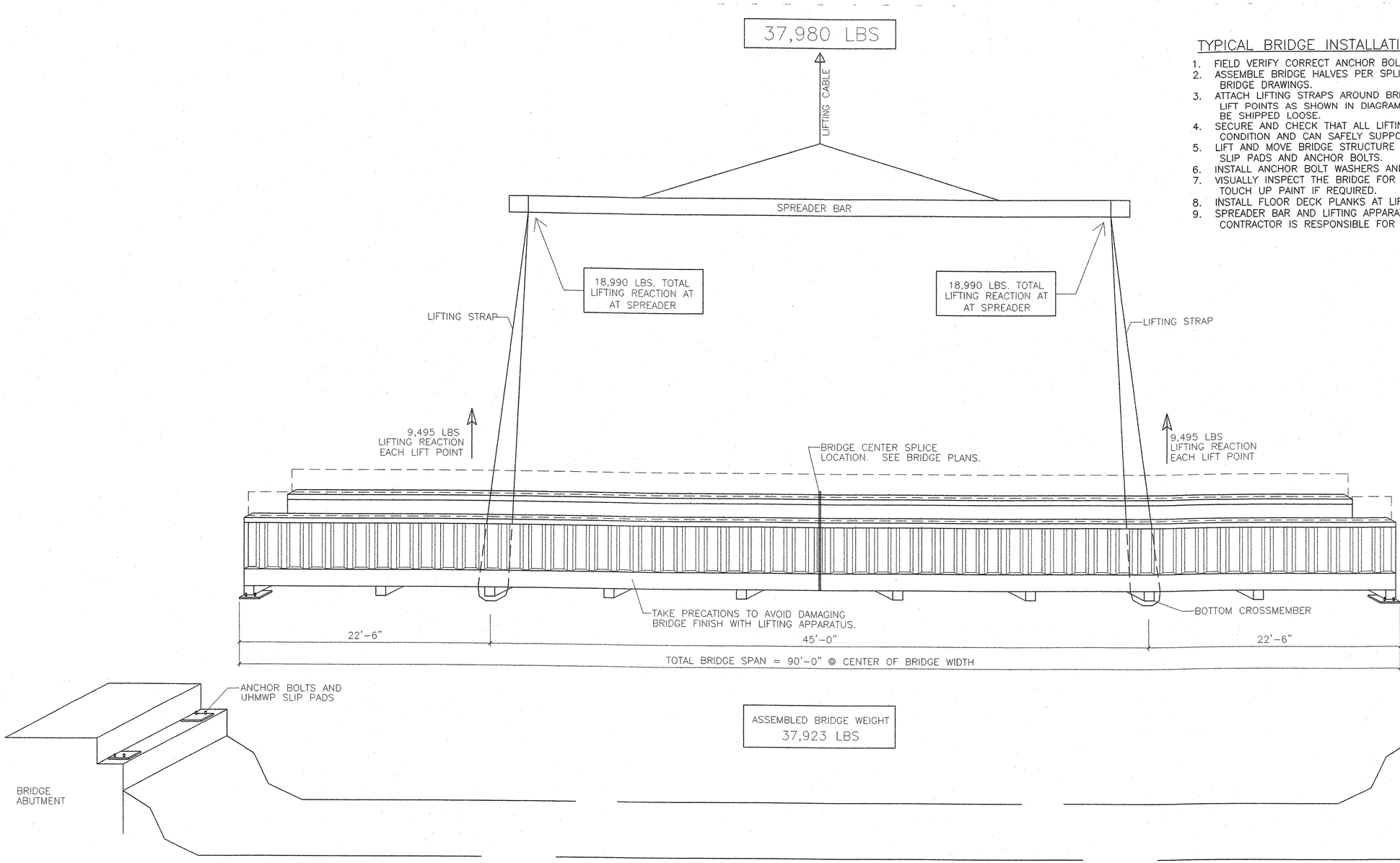
WHITCOMB CONSTR.
WHETSTONE BROOK PATH
PEDESTRIAN BRIDGE
BRATTLEBORO, VT

REV	DATE	REVISIONS
0	7/8/04	FOR OWNER APPROVAL
1	7/27/04	CUSTOMER CHANGES
2	9/3/04	RE-SUBMITTAL
3	10/12/04	RE-SUBMITTAL
4	12/1/05	PER CHANGE
5	2/11/05	AS MANUFACTURED

BIG R MANUFACTURING, LLC
PO BOX 1299
GREELEY, COLORADO
ph: (970) 356 9600
fx: (970) 339 2849

DRAWN: MDS
DATE: 7/1/04
CHECKED: SFP
DATE: 7/8/04
APPROVED: SFP

REV. 5
PROJECT NO. 24-1758
SHEET NO. B3



TYPICAL BRIDGE INSTALLATION PROCEDURE

1. FIELD VERIFY CORRECT ANCHOR BOLT LOCATIONS.
2. ASSEMBLE BRIDGE HALVES PER SPLICE CONNECTION DETAIL AS SHOW ON BRIDGE DRAWINGS.
3. ATTACH LIFTING STRAPS AROUND BRIDGE BOTTOM CROSS MEMBERS AT LIFT POINTS AS SHOWN IN DIAGRAM. FLOOR PLANKS AT LIFT POINTS WILL BE SHIPPED LOOSE.
4. SECURE AND CHECK THAT ALL LIFTING EQUIPMENT IS IN GOOD WORKING CONDITION AND CAN SAFELY SUPPORT THE TOTAL BRIDGE WEIGHT.
5. LIFT AND MOVE BRIDGE STRUCTURE AND SET BRIDGE BASE PLATES ONTO SLIP PADS AND ANCHOR BOLTS.
6. INSTALL ANCHOR BOLT WASHERS AND NUTS.
7. VISUALLY INSPECT THE BRIDGE FOR ANY DAMAGE TO THE FINISH AND APPLY TOUCH UP PAINT IF REQUIRED.
8. INSTALL FLOOR DECK PLANKS AT LIFT POINT AREAS.
9. SPREADER BAR AND LIFTING APPARATUS IS SHOWN CONCEPTUALLY. CONTRACTOR IS RESPONSIBLE FOR ALL HOISTING REQUIREMENTS.

ASSEMBLED BRIDGE WEIGHT
37,923 LBS

STATE OF VERMONT
SHANDER P. NAHGI
3401
FEB 18 2005
REGISTERED PROFESSIONAL ENGINEER

EAGLE SPAN
102 West 4th St.
Loveland, CO 80537
ph: (970) 669-3252
fx: (970) 669-2626

WHITCOMB CONSTR.

WHETSTONE BROOK PATH
PEDESTRIAN BRIDGE
HARTFORD, VT

REV.	DATE	REVISIONS
0	2/8/05	INSTALLATION INSTRUCTIONS

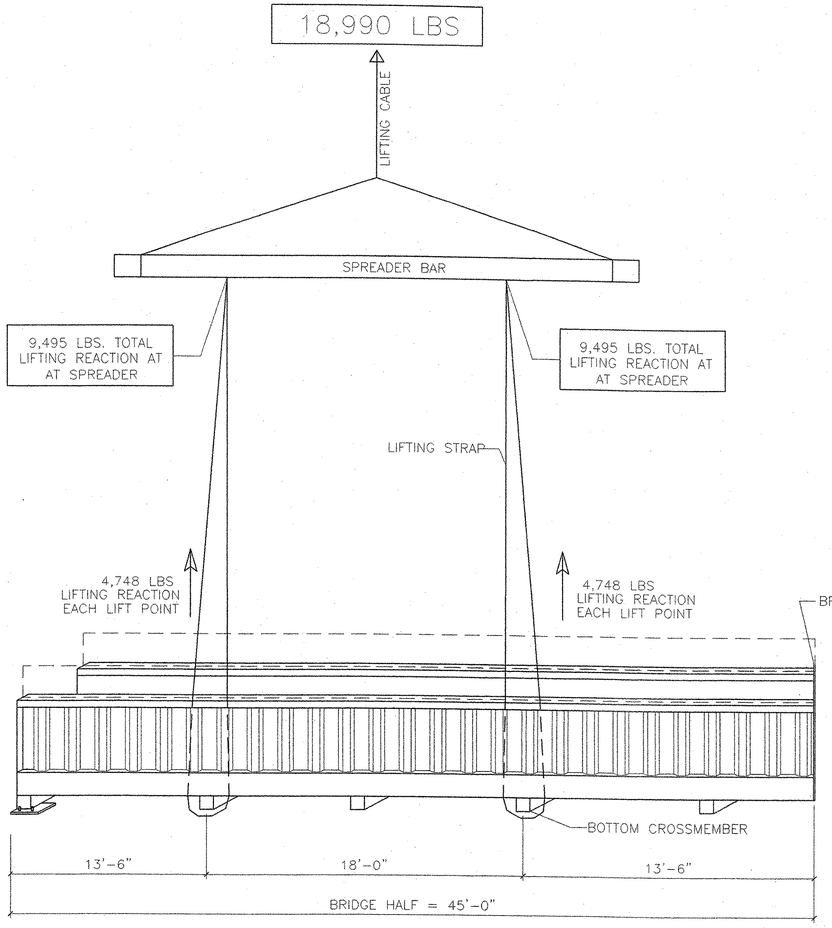
BIG R MANUFACTURING, LLC
PO BOX 1290
GREELEY, COLORADO
ph: (970) 356-9600
fx: (970) 356-9626

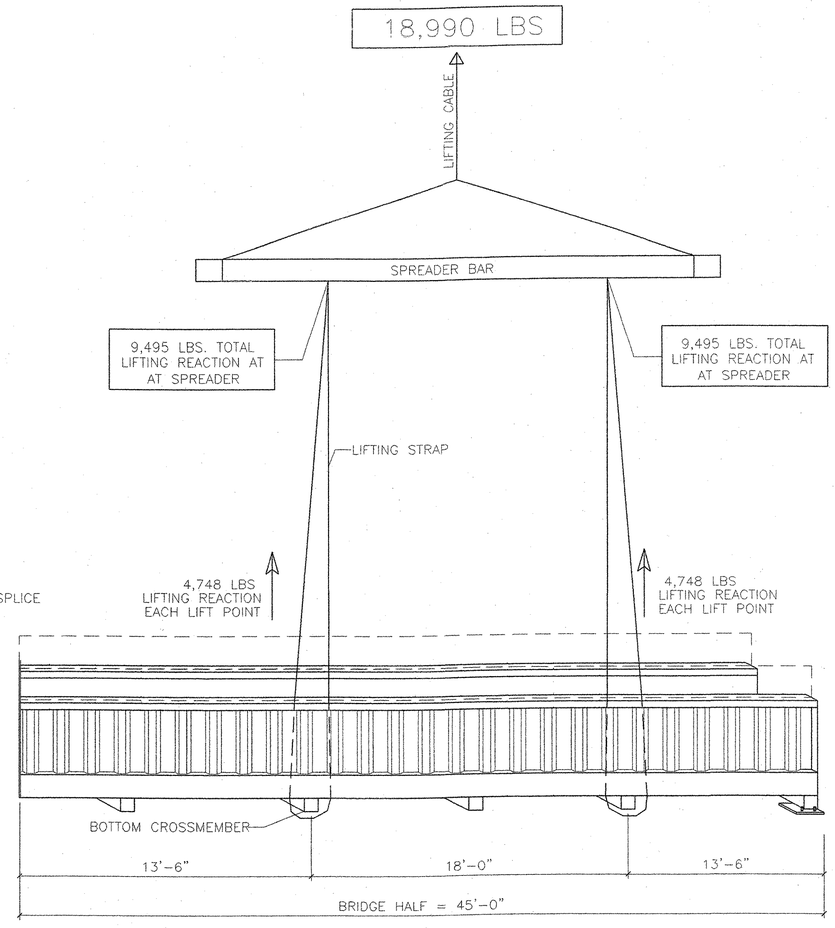
DRAWN: MDS
DATE: 1/14/05
CHECKED: SFP
DATE: 1/14/05
APPROVED: SFP

REV. 0

PROJECT NO. 24-775E

SHEET NO. INST 1





TAKE PRECATIONS TO AVOID DAMAGING BRIDGE FINISH WITH LIFTING APPARATUS.

HALF SECTION BRIDGE WEIGHT
18,962 LBS

TYPICAL BRIDGE INSTALLATION PROCEDURE

1. FIELD VERIFY CORRECT ANCHOR BOLT LOCATIONS.
2. ASSEMBLE BRIDGE HALVES PER SPLICE CONNECTION DETAIL AS SHOW ON BRIDGE DRAWINGS.
3. ATTACH LIFTING STRAPS AROUND BRIDGE BOTTOM CROSS MEMBERS AT LIFT POINTS AS SHOWN IN DIAGRAM. FLOOR PLANKS AT LIFT POINTS WILL BE SHIPPED LOOSE.
4. SECURE AND CHECK THAT ALL LIFTING EQUIPMENT IS IN GOOD WORKING CONDITION AND CAN SAFELY SUPPORT THE TOTAL BRIDGE WEIGHT.
5. LIFT AND MOVE BRIDGE STRUCTURE AND SET BRIDGE BASE PLATES ONTO SLIP PADS AND ANCHOR BOLTS.
6. INSTALL ANCHOR BOLT WASHERS AND NUTS.
7. VISUALLY INSPECT THE BRIDGE FOR ANY DAMAGE TO THE FINISH AND APPLY TOUCH UP PAINT IF REQUIRED.
8. INSTALL FLOOR DECK PLANKS AT LIFT POINT AREAS.
9. SPREADER BAR AND LIFTING APPARATUS IS SHOWN CONCEPTUALLY. CONTRACTOR IS RESPONSIBLE FOR ALL HOSTING REQUIREMENTS.

STATE OF VERMONT
SHANNON F. MAHONEY
REGISTERED PROFESSIONAL ENGINEER
FEB 28 2009

EAGLE SPAN
102 West 4th St.
Loveland, CO 80537
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WHITCOMB CONSTR.
WHETSTONE BROOK PATH
PEDESTRIAN BRIDGE
BRATTLEBORO, VT

DATE	REV.	REVISIONS
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BIG R MANUFACTURING, LLC
PO BOX 1290
GREELEY, COLORADO
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DRAWN: MDS
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DATE: 1/14/05
APPROVED: SFP

REV. Ø

PROJECT NO. 24-TBE

SHEET NO. INST 2