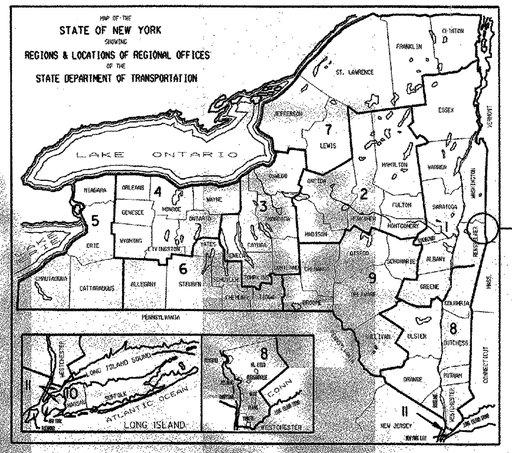


SITE OF WORK

STATE OF VERMONT
AGENCY OF TRANSPORTATION

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
OFFICE OF ENGINEERING

NEW CONSTRUCTION OF THE BENNINGTON CONNECTOR
IN THE TOWN OF HOOSICK
S.H. 98-2
RENSSELAER COUNTY, NEW YORK
D.P.I. 0146(1) C/1

PROJECT LOCATION

THE SECTION OF THE PROPOSED BENNINGTON CONNECTOR TO BE CONSTRUCTED UNDER THIS CONTRACT IS LOCATED IN THE TOWN OF HOOSICK, RENSSELAER COUNTY, NEW YORK, APPROXIMATELY 2.0 km WEST OF THE NEW YORK/ VERMONT STATE LINE. THE PROPOSED PROJECT WILL BEGIN ON N.Y.S. ROUTE 7 AND WILL PROGRESS IN A NORTHEASTERLY DIRECTION CONNECTING N.Y.S. ROUTE 7 WITH THE EXISTING BENNINGTON BYPASS PREVIOUSLY CONSTRUCTED BY OTHERS. IT WILL PROVIDE ONE WESTBOUND THROUGH LANE, ONE EASTBOUND THROUGH LANE AND AN INTERSECTION PROVIDING ACCESS TO N.Y.S. ROUTE 7 AND VERMONT ROUTE 279.

CONNECTOR DESIGN YEAR (2020)
TRAFFIC DATA

ESTIMATED TRAFFIC		
AADT	DHV	DDHV
6600	840	435

DESIGN SPEED: 100 km/h
PERCENT TRUCKS: 7%

CONTRACTOR'S NAME _____
AWARD DATE _____
COMPLETION DATE _____
FINAL ACCEPTANCE DATE _____
REGIONAL DIRECTOR _____
Name
ENGINEER IN CHARGE _____
Name
FINAL COST TOTAL _____
FISCAL SHARE COST(S)

RECORD PLANS

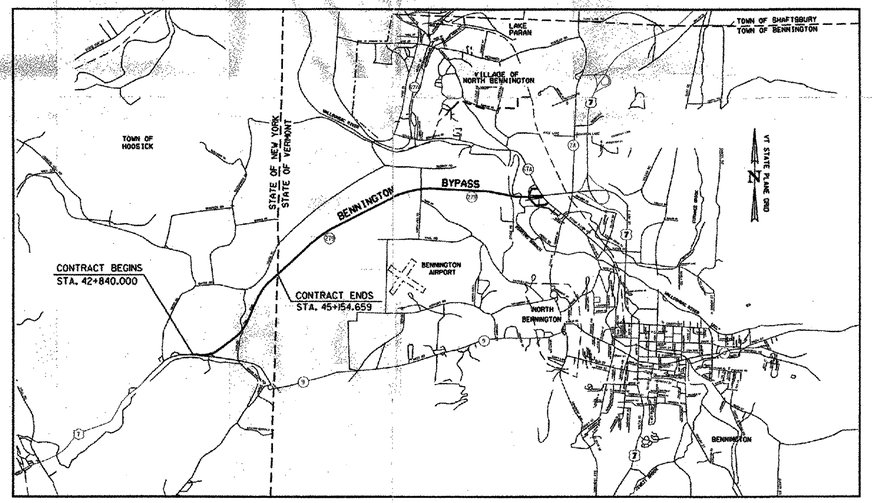
CONTRACTOR:	RIFENBURG CONSTRUCTION, INC. TROY, NY
RESIDENT ENGINEER:	RON LEMAIRE
CONSTRUCTION BEGAN:	JULY 26, 2004
CONSTRUCTION COMPLETED:	JULY 7, 2005
RECORD PLANS BY:	RON LEMAIRE & JUDY GILMORE

I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.

BY: _____, RESIDENT ENGINEER
DATE: 07/24/2007

NOTE: ANY FURTHER INFORMATION CONCERNING FINAL QUANTITIES, AMOUNTS OR OTHER DETAILS RELATIVE TO THIS PROJECT MAY BE FOUND AT CENTRAL FILES AND IN THE ELECTRONIC ARCHIVES.

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)



PROJECT LOCATION

1000 0 1000 m

STATE OF VERMONT
THOMAS P. KARIS
No. 6298
REGISTERED PROFESSIONAL ENGINEER

PREPARED AND RECOMMENDED BY
THOMAS P. KARIS 2/23/04
DATE
THOMAS P. KARIS
CLOUGH, HARBOUR & ASSOCIATES LLP
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS
VT. P.E. No. 6298

STATE OF NEW YORK
THOMAS P. KARIS
LICENSED PROFESSIONAL ENGINEER
NO. 068357

PREPARED AND RECOMMENDED BY
THOMAS P. KARIS 2/23/04
DATE
THOMAS P. KARIS
CLOUGH, HARBOUR & ASSOCIATES LLP
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS
N.Y.S. P.E. No. 068357

REQUIREMENTS FOR NEW YORK STATE

NYSDOT STANDARD SHEETS

M203-1, M203-2, M203-4,M203-5, M209-1, M209-2, M209-3, M209-4, M209-5, M209-6, M209-7, M209-9, M403-1, M603-3RI, M604-5RI, M604-8RI, M606-3, M606-5RI, M606-6, M607-2, M609-2RI, M609-4RI, M611-1, M619-3RI, M619-4, M619-5, M625-1RI, M645-51, M645-52, M645-55, M645-56, M645-70, M645-72, M645-76, M646-4, M646-5, M655-10R2, M655-11RI, M680-1, M680-2, M680-3, M680-4 M680-5, M680-6, M680-7, M680-8R2, M680-9, M680-10, M680-12, M680-13R2, M680-14RI, M680-15RI, M680-16, M680-17, M685-1, M685-2RI, M685-5RI

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (METRIC UNITS) OF JANUARY 2, 2002, EXCEPT AS MODIFIED ON THESE PLANS AND IN THE ITEMIZED PROPOSAL.

REQUIREMENTS FOR THE STATE OF VERMONT

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

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 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

APPROVED _____ DATE 3/10/04
DIRECTOR OF PROGRAM DEVELOPMENT

NEW YORK STATE DEPARTMENT OF TRANSPORTATION
APPROVED March 15, 2004
for THOMAS C. WERNER, P.E.
ACTING IN HIS CAPACITY AS REGIONAL DIRECTOR

CHA CLOUGH, HARBOUR & ASSOCIATES LLP
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS
111 WINNERS CIRCLE ALBANY, NEW YORK 12205
P.O. BOX 5269 518-453-4500
DRAWING COPYRIGHT © 2004

BENNINGTON CONNECTOR S.H. 98-2
P.I.N. 1306.60
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426
RENSSELAER COUNTY

FED. ROAD REG. NO.	STATE	SHEET NO.	TOTAL SHEETS
I	NY	I	92

FEDERAL AID PROJECT NO. 0146001
CAPITAL PROJECT IDENTIFICATION NO. 1306.60

INDEX AND LEGEND ON SHEET NO. 2

DRAFTED BY C. KAHLBAUGH DATE 2/04
CHECKED BY T. BURTNICK
CHECKED BY D. GOZALKOWSKI
DESIGNED BY D. EMERICH
CHECKED BY D. GOZALKOWSKI
ESTIMATED BY D. EMERICH
IN CHARGE OF T. KARIS
FILE NAME = u:\civil\projects\contract1\cover.dgn
DATE/TIME = 2/23/2004 08:58:22

DESIGNED BY T.KARIS DRAFTED BY D.EMERICH CHECKED BY D.GOZALKOWSKI ESTIMATED BY D.EMERICH CHECKED BY C.KAHLBAUGH CHECKED BY T.BURTNICK DATE 2/04

FILE NAME = u:\s1161\vgndot\construct\legend.dgn
DATE/TIME = 2/23/2004
USER = 2225
IN CHARGE OF T.KARIS

ABBREVIATIONS

ALIGNMENT

- BL = BASELINE
- ℄ = CENTERLINE
- ML = MAINLINE
- H.C.L. = HORIZONTAL CONTROL LINE
- T.G.L. = THEORETICAL GRADE LINE
- STA. = STATION
- P.I. = POINT OF INTERSECTION
- P.C. = POINT OF CURVE
- P.T. = POINT OF TANGENT
- P.C.C. = POINT OF COMPOUND CURVE
- P.R.C. = POINT OF REVERSE CURVE
- P.O.C. = POINT ON CURVE
- P.O.L. = POINT ON LINE
- T.S. = TANGENT TO SPIRAL
- S.C. = SPIRAL TO CURVE
- C.S. = CURVE TO SPIRAL
- S.T. = SPIRAL TO TANGENT
- R = RADIUS
- △ = ANGLE OF INTERSECTION
- Dc = DEGREE OF CURVE
- L = LENGTH OF CURVE
- T = TANGENT LENGTH
- DIA. = DIAMETER
- EXT. = EXTERNAL
- E.Q. = EQUALITY
- AHD. = AHEAD
- BK. = BACK
- e MAX. = MAXIMUM SUPERELEVATION
- N.C. = NORMAL CROWN
- P.V.I. = POINT OF VERTICAL INTERSECTION
- L.V.C. = LENGTH OF VERTICAL CURVE
- M.O. = MIDDLE ORDINATE OF VERTICAL CURVE
- P.S.D. = PASSING SIGHT DISTANCE
- S.S.D. = STOPPING SIGHT DISTANCE
- H.S.D. = HEADLIGHT SIGHT DISTANCE
- K = RATE OF VERTICAL CURVATURE

TOPOGRAPHY (DRAINAGE)

- D'XING = DITCH CROSSING
- CULV. = CULVERT
- HW. = HEADWALL
- INV. = INVERT
- C.P. = CONCRETE PIPE
- R.C.P. = REINFORCED CONCRETE PIPE
- C.M.P. = CORRUGATED METAL PIPE
- C.S.P. = CORRUGATED STEEL PIPE
- E.S. = END SECTION
- O.C.M.P. = OBLATE CORRUGATED METAL PIPE
- V.C.P. = VITRIFIED CLAY PIPE
- V.T.P. = VITRIFIED TILE PIPE
- C.I.P. = CAST IRON PIPE
- C.B. = CATCH BASIN
- C.I. = CURB INLET
- D.I. = DROP INLET
- M.H. = MANHOLE
- T.F. = TOP OF FRAME (GRATE)
- ℄ STRM. = CENTERLINE OF STREAM
- B.B. = BOTTOM OF BANK(STREAM)
- T.B. = TOP OF BANK(STREAM)
- E.H.W. = EXTREME HIGH WATER
- O.H.W. = ORDINARY HIGH WATER
- M.H.W. = MEAN HIGH WATER
- ELEV.orEL. = ELEVATION
- O.L.W. = ORDINARY LOW WATER
- E.L.W. = EXTREME LOW WATER

TOPOGRAPHY (UTILITIES)

- TEL.P. = TELEPHONE POLE
- G.P. = GUY POLE
- L.P. = LIGHT POLE
- P.P. = POWER POLE
- G = GAS
- L.P.G. = LOW PRESSURE GAS
- H.P.G. = HIGH PRESSURE GAS
- G.V. = GAS VALVE(MAIN LINE)
- G.S.B. = GAS SERVICE BOX (HOUSE LINE)
- W = WATER
- W.V. = WATER VALVE(MAIN LINE)
- W.S.B. = WATER SERVICE BOX (HOUSE BOX)
- HYD. = HYDRANT

TOPOGRAPHY (MISCELLANEOUS)

- B.M. = BENCH MARK
- R.O.W. = RIGHT OF WAY
- ℄ = PROPERTY LINE
- WIN. = WINGWALL
- FD. = FOUNDATION
- C.R.W. = CONCRETE RETAINING WALL
- DW. = DRIVEWAY
- BLDG. = BUILDING
- HO. = HOUSE

TOPOGRAPHY (MISC.) CONT.

- POR. = PORCH
- FR. HO. = FRAME HOUSE
- STO. HO. = STONE HOUSE
- BRK. HO. = BRICK HOUSE
- C.B. HO. = CONCRETE BLOCK HOUSE
- ST. = STREET
- STY. = STORY
- S.W. = SIDEWALK
- T.L. = TREE LINE
- C.C. = CENTER TO CENTER
- I.P. = IRON PIN OR IRON PIPE
- MON. = MONUMENT
- STK. = STAKE
- R.R. = RAILROAD
- M = MEASURED DISTANCE
- D = DEED DISTANCE
- S.H. = STATE HIGHWAY
- C.R. = COUNTY ROAD
- D.M. = DIRECT MEASUREMENT
- R.O.W. W/A = RIGHT OF WAY WITH ACCESS
- R.O.W. WO/A = RIGHT OF WAY WITHOUT ACCESS
- B.O. = BOTTOM OF OPENING
- T.O. = TEMPORARY OCCUPANCY
- P.E. = PERMANENT EASEMENT
- T.E. = TEMPORARY EASEMENT

LEGEND

FEATURE	SYMBOL PROPOSED	SYMBOL EXISTING
1. ROADS		
ROADS		
SIDEWALK	S.W.	S.W.
CURB		
2. ROUTE MARKERS		
INTERSTATE	5	5
U.S.	5	5
STATE	5	5
COUNTY	5	5
TOWN	5	5
3. TYPICAL SECTIONS		
ORIGINAL GROUND		
ROCK		
4. BARRIERS		
BARRICADE		
BOX BEAM OR W BEAM GUIDE RAILING		
BOX BEAM OR W BEAM MALL BARRIER		
CABLE GUIDE RAIL		
RETAINING WALL		
FENCE		
GUIDE POSTS		
STONE FENCE		
5. DRAINAGE FACILITIES		
CULVERTS		
CATCH BASIN, ETC.		
WATER COURSE		
DITCH		
GUTTER		
STONE FILL		
EROSION BLANKET		

FEATURE	SYMBOL PROPOSED	SYMBOL EXISTING
6. WATER LOCATIONS		
STREAM		
LAKE OR POND		
DRY POND OR DRY STREAM		
SPRING		
MARSH, FRESH		F
MARSH, SALT		S
RIPRAP		
7. TOPOGRAPHY		
CONTOURS	100	100
ROCK OUTCROP		
8. SURVEYING DATA		
SPOT ELEVATION		103.2
WATER ELEVATION		W.E.102.5
BENCH MARK		□ B.M.12
TRANSIT POINT		△
NORTH ARROW		VT STATE PLANE GRID
BASELINE		
CENTERLINE		
9. BUILDING AND SPECIAL SITES		
BUILDINGS IN GENERAL		
BUILDINGS TO BE DEMOLISHED		202.01XX
FOUNDATION		
TANK		
10. CUT AND FILL LIMITS		
TOP OF CUT		
BOTTOM OF FILL		

FEATURE	SYMBOL PROPOSED	SYMBOL EXISTING
11. BOUNDARIES		
NATIONAL		
STATE		
COUNTY		
TOWN		
CITY OR VILLAGE		
PROPERTY LINE		R
R.O.W. LINE & MON.	MON.	MON.
ACCESS LINE	R.O.W. W/A R.O.W. WO/A	R.O.W. W/A R.O.W. WO/A
ACQUISITION INFO	M12 P1T FEE W/A	
12. TREES AND BRUSH		
WOODED AREA		
BRUSH		BRUSH
TREES,DECIDUOUS	G.T.	
TREES,CONIFEROUS		
STUMP		
HEDGE		HEDGE
13. SIGNS AND BILLBOARDS		
SIGNS,GROUND MTD.		
SIGNS, OVERHEAD		
PROPOSED SIGN LOCATION & TEXT	4 / 7	
14. UTILITIES ABOVE GROUND		
HIGH TENSION TRANSMISSION TOWER		
UTILITY POLE		
TRAFFIC SIGNAL		
FIRE HYDRANT		
PULL BOX STREET LIGHTS	1	1
PULL BOX TRAFFIC SIGNAL	2	2
STREET LIGHT		
STREET LIGHT UTILITY POLE		

FEATURE	SYMBOL PROPOSED	SYMBOL EXISTING
14. UTILITIES ABOVE GROUND (CONT.)		
STEEL SIGNAL POLE		
SIGNAL POLE WITH CONTROLLER		
POLICE OR FIRE CALL BOX		
15. UTILITIES BELOW GROUND		
ELECTRIC	E	E
GAS	G	G
TELEPHONE	UG TEL	UG TEL
WATER MAIN	W	W
WATER VALVE	W	W
SEWER, SANITARY	Sa	Sa
SEWER, STORM	St	St
MANHOLE	M.H.	M.H.
UTILITY VALVE		
16. RAILROADS		
SMALL SCALE TRACK		
LARGE SCALE TRACK		

17. SUBSURFACE EXPLORATIONS

STANDARD SYMBOL	AB C	1/4" CIRCLE, IDENTIFY

REPLACE ABBREVIATION "AB" WITH

- DA = 2.5" CASED DRILL HOLE
- DN = 4.0" CASED DRILL HOLE
- FH = HOLLOW FLIGHT AUGER
- DM = DRILLING MUD
- PA = POWER AUGER
- AH = HAND AUGER
- CD = CONE PENETROMETER
- PH = PROBE HOLE
- RP = ONE INCH SAMPLER (RETRACTABLE PLUG)
- TP = TEST PIT
- PT = PERCOLATION TEST HOLE
- SP = SEISMIC POINT

REPLACE ABBREVIATION "C" IN CATEGORIES DA, DN, FH, & DM WITH:

- B = BRIDGE
- C = CUT
- D = DAM
- F = FILL
- K = CULVERT
- W = WALL
- X = To be used if one of the above cannot be defined at the time the exploration is made.

INDEX

SHEET	DESCRIPTION	DWG. NO.
1	TITLE SHEET	-
2	LEGEND AND INDEX	L-1
3-6	TYPICAL SECTIONS	TS-1 - TS-4
7-8	NYSDOT/VAOT ITEM CORRELATION SHEETS	C-1 - C-3
9-12	VAOT QUANTITY SHEETS	VTQ-1 - VTQ-4
13-14	NYSDOT ESTIMATE OF QUANTITIES	NYQ-1 - NYQ-2
15	2500 SCALE PLAN	GPL-1
16	2500 SCALE PROFILES	GPR-1
17-18	MAINTENANCE JURISDICTION	MJ-1 - MJ-2
19-24	MAINTENANCE AND PROTECTION OF TRAFFIC	MPT-1 - MPT-6
25-30	CONSTRUCTION SEQUENCING PLANS	CSP-1 - CSP-6
31-32	HORIZONTAL AND VERTICAL CONTROLS	HVC-1 - HVC-2
33-35	MISCELLANEOUS DETAILS	MD-1 - MD-3
36-37	DRIVEWAY PLANS	DW-1 - DW-2
38-39	DRAINAGE DETAILS	DD-1 - DD-2
40-41	MISCELLANEOUS TABLES	MT-1 - MT-2
42	GUIDE RAIL TABLE	GT-1
43	DRAINAGE TABLE	DT-1
44-45	EARTHWORK SUMMARY SHEETS	ES-1 - ES-2
46	INTERSECTION GRADING PLAN	GP-1
47	TEMPORARY SOIL EROSION AND SEDIMENT CONTROLS	EC-1
48-49	EROSION & SEDIMENT CONTROL PLANS	SP-1 - SP-2
50	LANDSCAPING DEVELOPMENT PLANS AND DETAILS	LD-1
51-52	WETLAND MITIGATION PLANS & DETAILS	WM-1 - WM-2
53-54	500 SCALE PLANS	P-1 - P-2
55-57	500 SCALE PROFILES	PF-1 - PF-3
58-60	RIGHT-OF-WAY PLANS	RP-1 - RP-3
61-62	SIGN TEXT DATA	STD-1 - STD-2
63	SIGN DETAILS	SD-1
64-68	SIGNING AND STRIPING PLANS	SSP-1 - SSP-5
69	GENERAL NOTES AND LEGEND	TSN-1
70	TRAFFIC SIGNAL PLAN	TSP-1
71	TRAFFIC SIGNAL DETAILS	TSD-1
72-81	CROSS SECTIONS - S.H. 1426 - S.H. 98-2	-
82-87	CROSS SECTIONS - S.H. 1426 (STEM SECTION)	-
88-92	CROSS SECTIONS - CAHILL DRIVE	-

Metric VAOT

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	2	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

LEGEND AND INDEX

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. LEGEND.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 2 OF 92 DWG NO. L-1

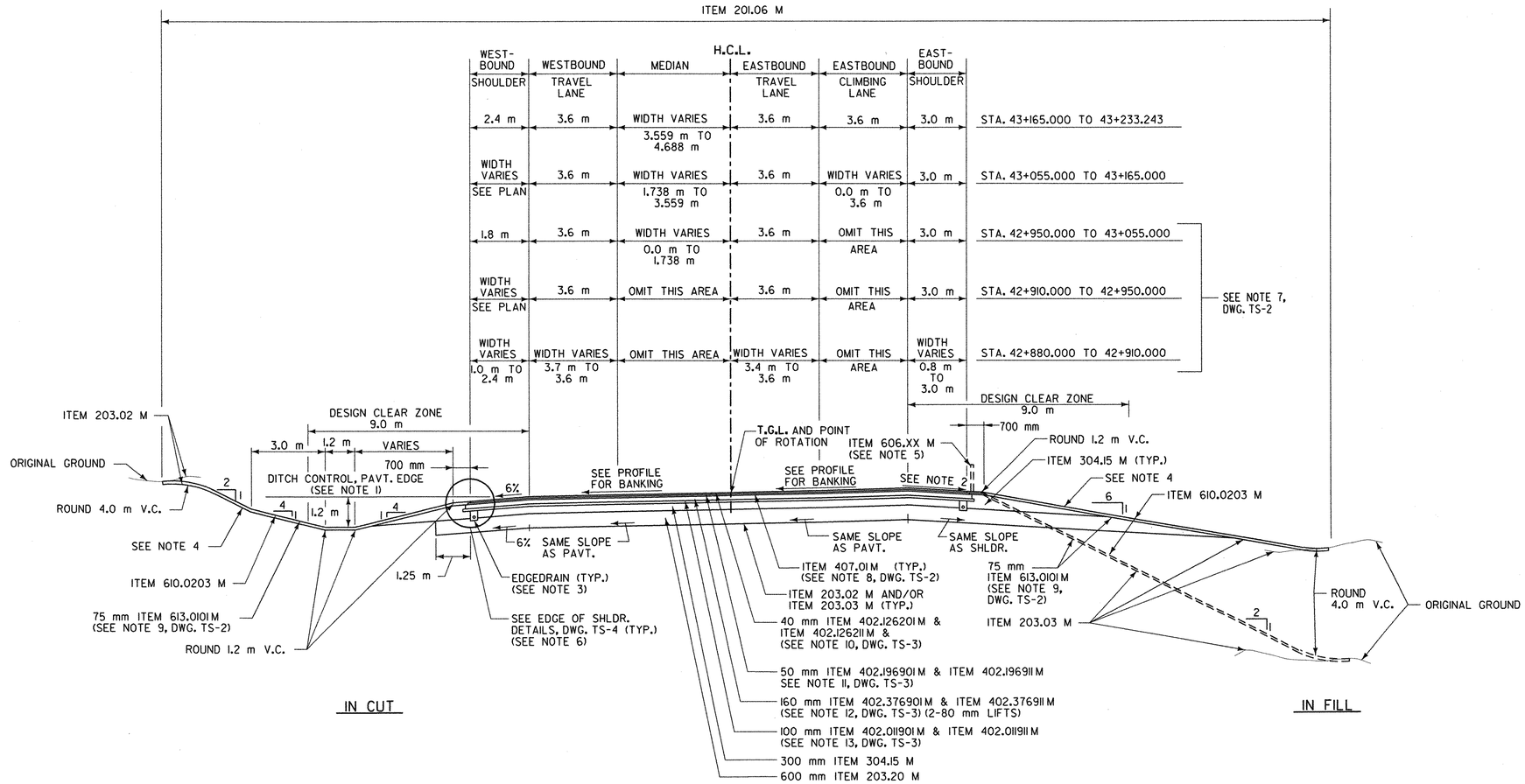
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	3	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY



N.T.S.

STA. 42+880.000 TO 43+233.243

S.H. 1426 BANKED SECTION

ITEM NO.	DESCRIPTION	UNIT
201.06 M	CLEARING AND GRUBBING	LS
203.02 M	UNCLASSIFIED EXCAVATION AND DISPOSAL	m^3
203.03 M	EMBANKMENT IN PLACE	m^3
203.20 M	SELECT GRANULAR SUBGRADE	m^3
304.15 M	SUBBASE COURSE, OPTIONAL TYPE	m^3
402.01190 1 M	TYPE 2 F9, ASPHALT TREATED PERMEABLE BASE COURSE	†
402.01191 1 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO ITEM 402.01190 1 M	QU
402.12620 1 M	12.5 mm F2 SUPERPAVE HMA, 60 SERIES COMPACTION	†
402.12621 1 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO ITEM 402.12620 1 M	QU
402.19690 1 M	19 mm F9 SUPERPAVE HMA, 60 SERIES COMPACTION	†
402.19691 1 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO ITEM 402.19690 1 M	QU
402.37690 1 M	37.5 mm F9 SUPERPAVE HMA, 60 SERIES COMPACTION	†
402.37691 1 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO ITEM 402.37690 1 M	QU
407.01 M	TACK COAT	L
606.XX M	GUIDE RAILING	m
610.0203 M	ESTABLISHING TURF	m^2
613.0101 M	TOPSOIL	m^3

NOTES:

1. SEE PROFILES FOR SPECIAL DITCH INFORMATION.
2. WHEN SUPERELEVATED GREATER THAN 2%, THE SHOULDER SLOPE VARIES ON THE HIGH SIDE. USE ROLLOVER OF 8% AT THE PAVEMENT - SHOULDER JOINT. THE MAXIMUM SHOULDER SLOPE SHALL BE 6%, MINIMUM SLOPE SHALL BE 2%.
3. EDGEDRAINS SHALL BE OUTLET THROUGH 100 mm UNDERDRAIN PIPE. SEE DWG. DD-1 FOR OUTLET DETAILS AND TABLE. SEE DWG. TS-4 FOR EDGEDRAIN DETAILS.
4. SIDE SLOPES IN FILL AND BACK SLOPES IN CUT MAY VARY. SEE TABLE OF SLOPES, DWG. MT-1.
5. SEE DWG. GT-1 FOR GUIDE RAILING ITEMS AND LOCATIONS.
6. USE CONCRETE CURB BETWEEN STATIONS 42+957.000 AND 43+070.000, LEFT. SEE DETAIL, DWG. TS-4.

- NOTES CONTINUED ON DWG. TS-2 -

TYPICAL SECTIONS

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NY-TSI.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 3 OF 92 DWG. NO. TS-1

DESIGNED BY D.EMERICH CHECKED BY D.GOZALKOWSKI
DRAFTED BY C.KAHLBAUGH CHECKED BY T.BURTNICK DATE 2/04
ESTIMATED BY D.EMERICH CHECKED BY D.GOZALKOWSKI
IN CHARGE OF T.KARIS

FILE NAME = u:\511\6\nydot\contract1\ny-ts1.dgn
DATE/TIME = 2/23/2004
USER = 2225

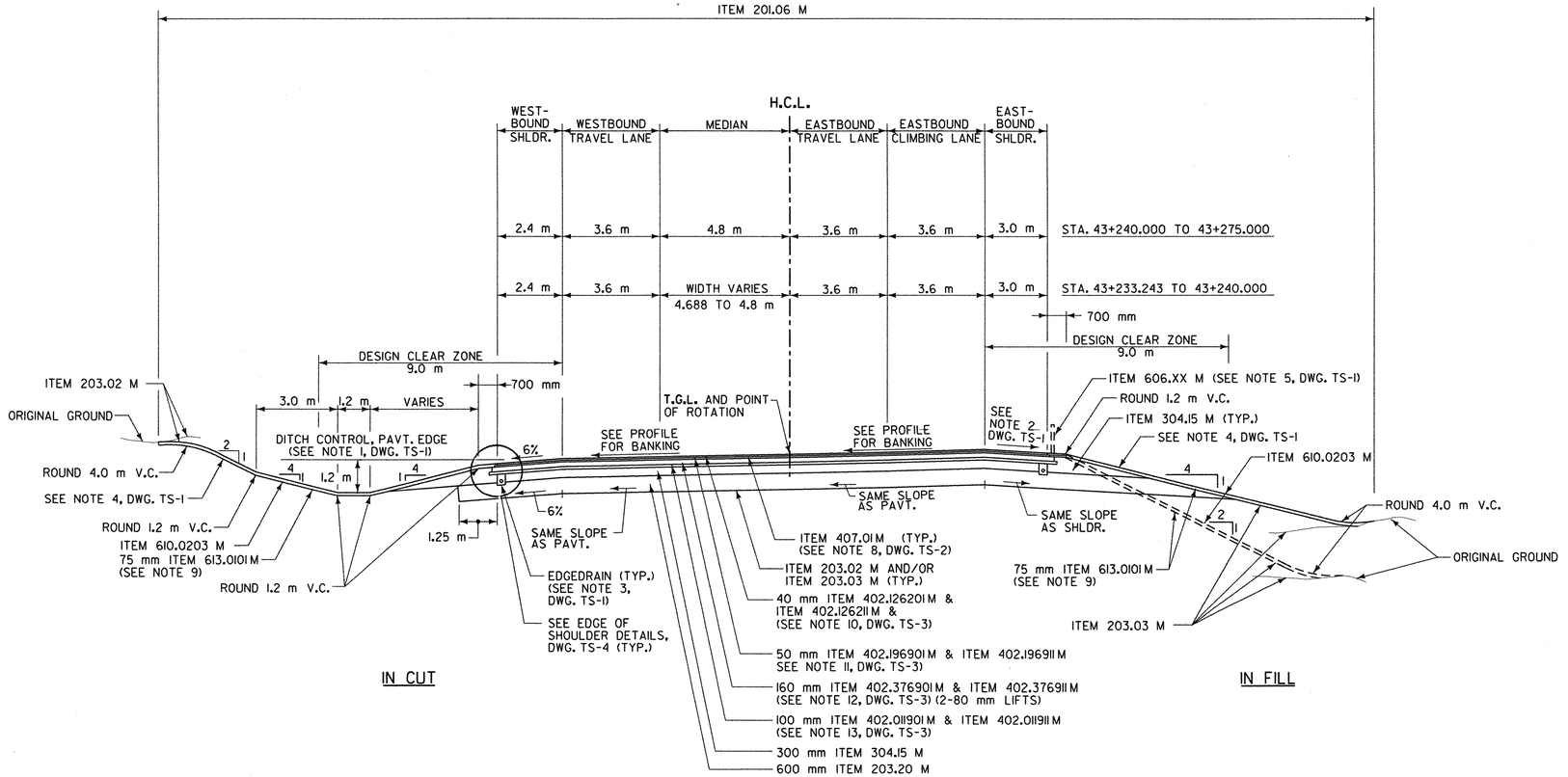
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	4	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY



S.H. 98-2 BANKED SECTION

N.T.S.

STA. 43+233.243 TO 43+275.000

ITEM NO.	DESCRIPTION	UNIT
201.06 M	CLEARING AND GRUBBING	LS
203.02 M	UNCLASSIFIED EXCAVATION AND DISPOSAL	m^3
203.03 M	EMBANKMENT IN PLACE	m^3
203.20 M	SELECT GRANULAR SUBGRADE	m^3
304.15 M	SUBBASE COURSE, OPTIONAL TYPE	m^3
402.011901 M	TYPE 2 F9, ASPHALT TREATED PERMEABLE BASE COURSE	†
402.011911 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO ITEM 402.011901 M	QU
402.126201 M	12.5 mm F2 SUPERPAVE HMA, 60 SERIES COMPACTION	†
402.126211 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO ITEM 402.126201 M	QU
402.196901 M	19 mm F9 SUPERPAVE HMA, 60 SERIES COMPACTION	†
402.196911 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO ITEM 402.196901 M	QU
402.376901 M	37.5 mm F9 SUPERPAVE HMA, 60 SERIES COMPACTION	†
402.376911 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO ITEM 402.376901 M	QU
407.01 M	TACK COAT	L
606.XX M	GUIDE RAILING	m
610.0203 M	ESTABLISHING TURF	m^2
613.0101 M	TOPSOIL	m^3

NOTES:

- NOTES CONTINUED FROM DWG. TS-1 -

7. USE TIP-UP GUTTER BETWEEN STATIONS 42+905.000 AND 43+035.000 RIGHT. SEE DETAIL, DWG. TS-4. THE COST OF CONSTRUCTING TIP-UP GUTTER SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 402.126201 M.
8. APPLY A TACK COAT PRIOR TO THE PLACEMENT OF TOP AND BINDER COURSE.
9. TOPSOIL SHALL BE PLACED AS INDICATED IN THE SPECIAL PROVISIONS.

- NOTES CONTINUED ON DWG. TS-3 -

TYPICAL SECTIONS

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. NY-TS2.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 4 OF 92 DWG. NO. TS-2

DESIGNED BY T. KARS CHECKED BY D. EMERICH DRAFTED BY D. GOZALKOWSKI CHECKED BY C. KAHLBAUGH CHECKED BY T. BURTNICK DATE 2/04

ESTIMATED BY D. EMERICH

IN CHARGE OF

FILE NAME = u:\s1516\syudot\contract1\ny-ts2.dgn
DATE/TIME = 2/23/2004 2225
USER =

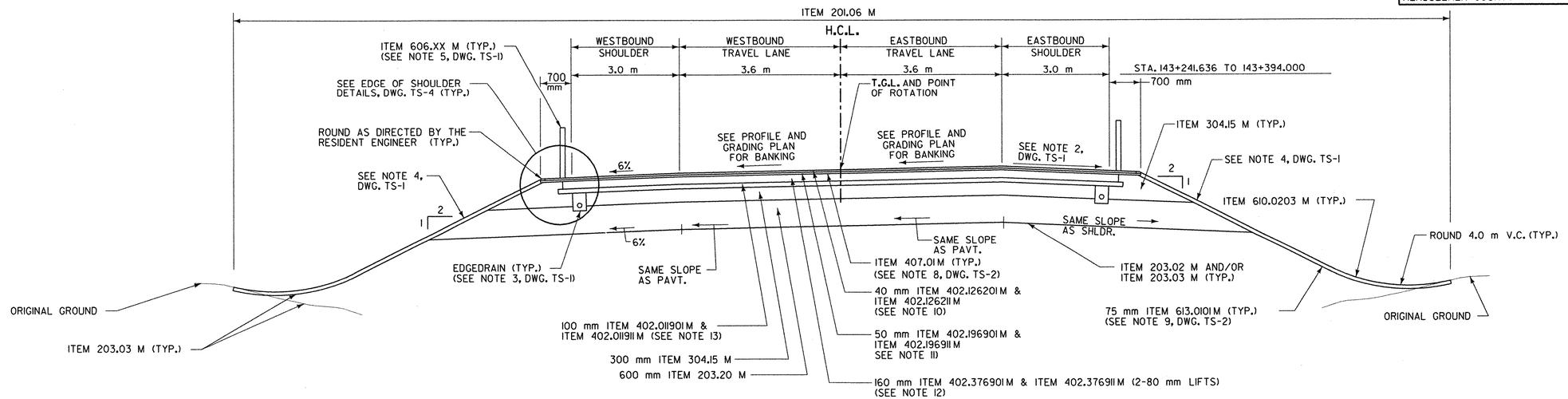
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	0146001	5	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

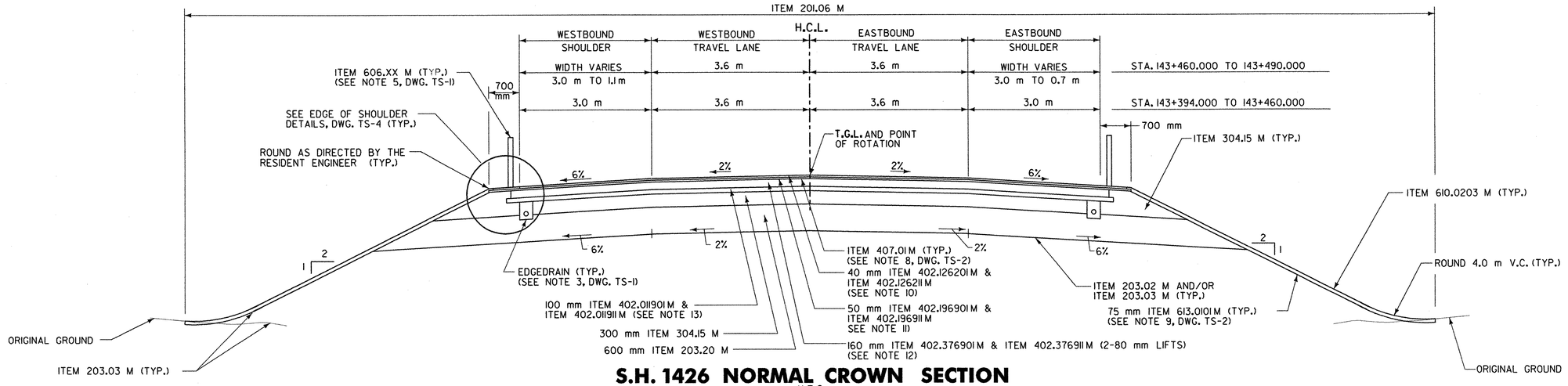
RENSSELAER COUNTY



S.H. 1426 BANKED SECTION

N.T.S.

STA. 143+241.636 TO 143+394.000



S.H. 1426 NORMAL CROWN SECTION

N.T.S.

STA. 143+394.000 TO 143+490.000

ITEM NO.	DESCRIPTION	UNIT
201.06 M	CLEARING AND GRUBBING	LS
203.02 M	UNCLASSIFIED EXCAVATION AND DISPOSAL	m^3
203.03 M	EMBANKMENT IN PLACE	m^3
203.20 M	SELECT GRANULAR SUBGRADE	m^3
304.15 M	SUBBASE COURSE, OPTIONAL TYPE	m^3
402.01190 M	TYPE 2 F9, ASPHALT TREATED PERMEABLE BASE COURSE	†
402.01191 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO ITEM 402.01190 M	QU
402.12620 M	12.5 mm F2 SUPERPAVE HMA, 60 SERIES COMPACTION	†
402.12621 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO ITEM 402.12620 M	QU
402.19690 M	19 mm F9 SUPERPAVE HMA, 60 SERIES COMPACTION	†
402.19691 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO ITEM 402.19690 M	QU
402.37690 M	37.5 mm F9 SUPERPAVE HMA, 60 SERIES COMPACTION	†
402.37691 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO ITEM 402.37690 M	QU
407.01 M	TACK COAT	L
606.XX M	GUIDE RAILING	m
610.0203 M	ESTABLISHING TURF	m^2
613.0101 M	TOPSOIL	m^3

NOTES:

- NOTES CONTINUED FROM DWG. TS-2 -

10. PAYMENT FOR ITEM 402.12621 M SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 402.12620 M.
11. PAYMENT FOR ITEM 402.19691 M SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 402.19690 M.
12. PAYMENT FOR ITEM 402.37691 M SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 402.37690 M.
13. PAYMENT FOR ITEM 402.01191 M SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 402.01190 M.

TYPICAL SECTIONS

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NY-TS3.DGN

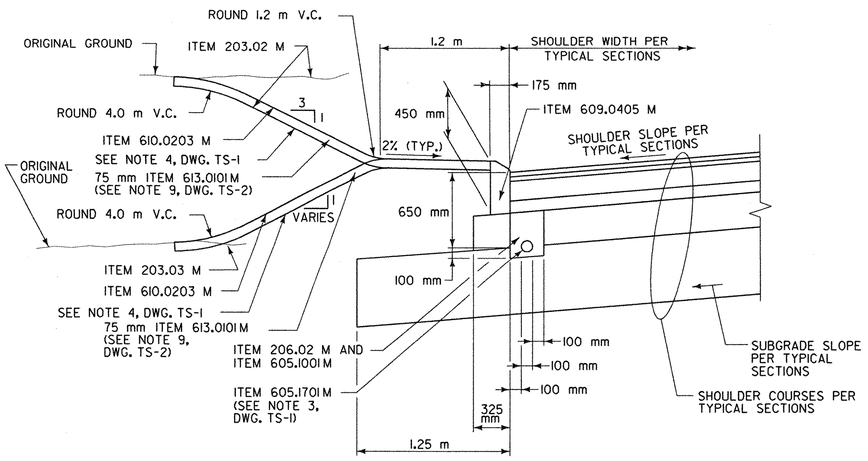
PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 5 OF 92 DWG. NO. TS-3

DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY
DRAFTED BY C. KAHLBAUGH CHECKED BY T. BURTNICK DATE 2/04
CHECKED BY D. GOZALKOWSKI
IN CHARGE OF T. KARIS

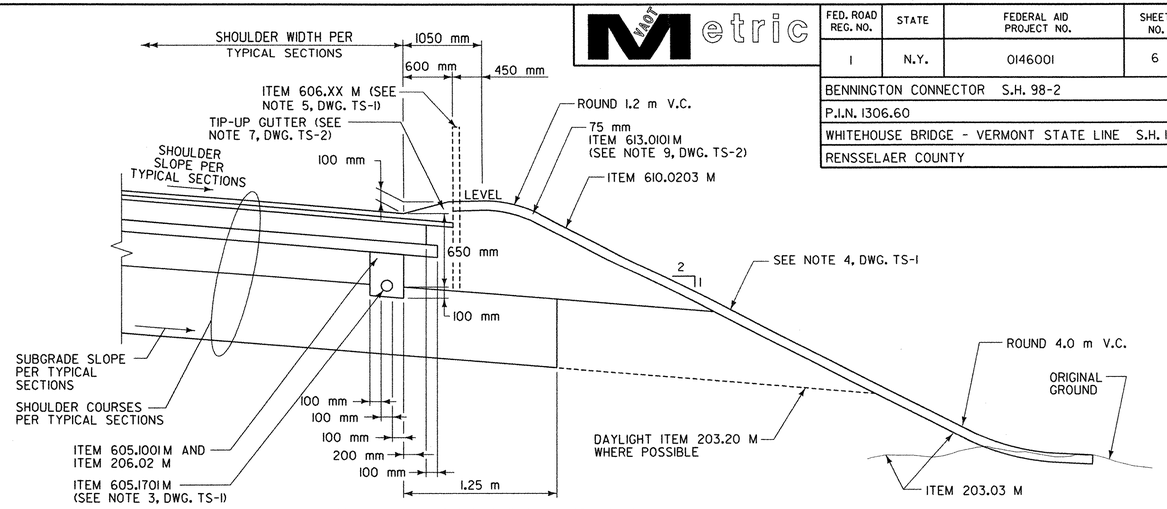
FILE NAME = u:\s1610\projdata\contract\hng-ts3.dgn
DATE/TIME = 2/27/2004
USER = 2225



CONCRETE CURB EDGE DETAIL

N.T.S.

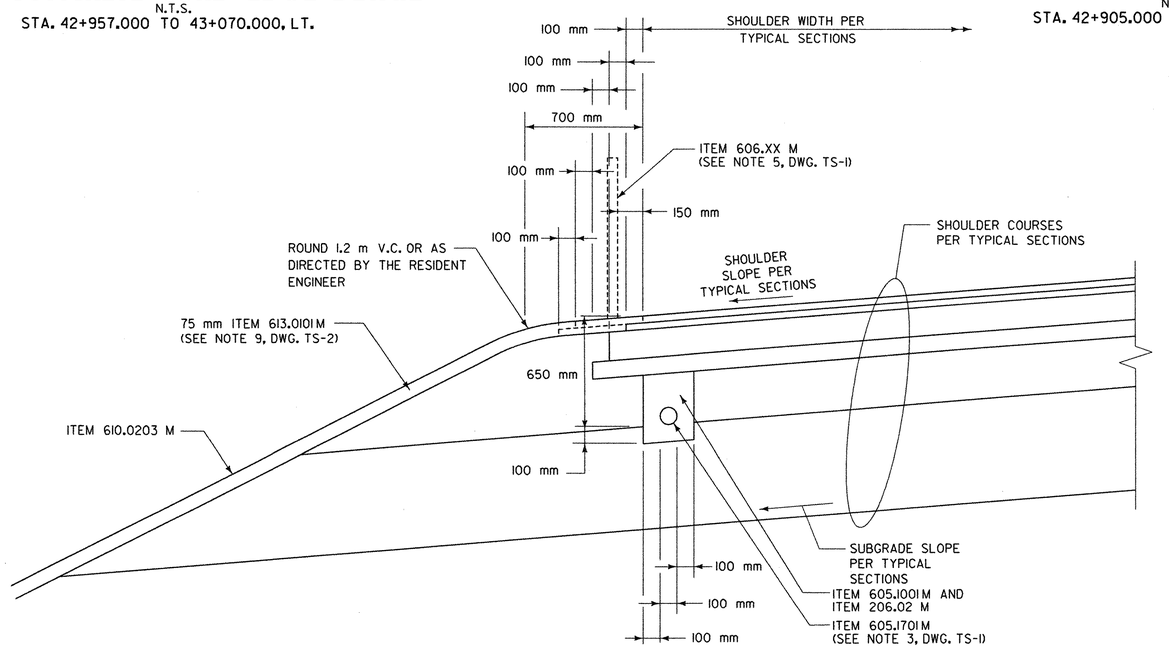
STA. 42+957.000 TO 43+070.000, LT.



TIP-UP GUTTER DETAIL

N.T.S.

STA. 42+905.000 TO 43+035.000, RT.



EDGE OF SHOULDER DETAIL

N.T.S.

ITEM NO.	DESCRIPTION	UNIT	ITEM NO.	DESCRIPTION	UNIT
203.02 M	UNCLASSIFIED EXCAVATION AND DISPOSAL	m^3			
203.03 M	EMBANKMENT IN PLACE	m^3			
203.20 M	SELECT GRANULAR SUBGRADE	m^3			
206.02 M	TRENCH & CULVERT EXCAVATION	m^3			
605.1001 M	UNDERDRAIN FILTER - TYPE II	m^3			
605.1701 M	OPTIONAL UNDERDRAIN, 100 mm DIAMETER	m			
606.XX M	GUIDE RAILING	m			
609.0405 M	CAST-IN-PLACE CONCRETE CURB, TYPE M100	m			
610.0203 M	ESTABLISING TURF	m^2			
613.0101 M	TOPSOIL	m^3			

NOTES:

(SEE DWGS. TS-1, TS-2 AND TS-3)

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	6	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

TYPICAL SECTIONS

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NY-TS4.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 6 OF 92 DWG NO. TS-4

DESIGNED BY I. KARIS — CHECKED BY D. EMERICH
DRAFTED BY D. GOZALKOWSKI — CHECKED BY C. KAHLBAUGH
ESTIMATED BY D. EMERICH — CHECKED BY D. GOZALKOWSKI
IN CHARGE OF I. KARIS — CHECKED BY D. EMERICH
DATE 2/04 — I. BURTNICK

FILE NAME = u:\s1i6\vagdot\contract1\ny-ts4.dgn
DATE/TIME = 2/23/2004
USER = 2225

NYSDOT / VAOT ITEM CORRELATION SHEET

NYSDOT ITEM NUMBER	NYSDOT DESCRIPTION	UNIT		VAOT ITEM NUMBER	VAOT DESCRIPTION	UNIT
201.06 M	CLEARING AND GRUBBING	LS	PAYMENT UNDER	201.10	CLEARING AND GRUBBING	LS
202.0300010 M	RELOCATING BUILDINGS	LS	PAYMENT UNDER	201.10	CLEARING AND GRUBBING (MOD.)	LS
203.02 M	UNCLASSIFIED EXCAVATION & DISPOSAL	m^3	PAYMENT UNDER	203.17	UNCLASSIFIED EXCAVATION	m^3
203.03 M	EMBANKMENT IN PLACE	m^3	PAYMENT UNDER	203.30	EARTH BORROW	m^3
203.07 M	SELECT GRANULAR FILL	m^3	PAYMENT UNDER	204.30	GRANULAR BACKFILL FOR STRUCTURES	m^3
203.1770 M	CLEANING CULVERTS WITH SPAN OF 1300 mm OR LESS	m	PAYMENT UNDER	601.996	CLEANING CULVERT PIPE IN PLACE (GREATER THAN 600 mm)	m
203.20 M	SELECT GRANULAR SUBGRADE	m^3	PAYMENT UNDER	203.32	GRANULAR BORROW	m^3
206.02 M	TRENCH AND CULVERT EXCAVATION	m^3	PAYMENT UNDER	204.20	TRENCH EXCAVATION OF EARTH	m^3
206.03 M	CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION	m	PAYMENT UNDER	203.18	UNCLASSIFIED DITCHING	m
207.10 M	GEOTEXTILE BEDDING	m^2	PAYMENT UNDER	649.31	GEOTEXTILE UNDER STONE FILL	m^2
209.1001 M	MULCH - TEMPORARY	m^2	PAYMENT UNDER	654.10	EROSION MATTING (MOD.)	m^2
209.1105 M	CHECK DAM, PREFABRICATED - TEMPORARY	EA	PAYMENT UNDER	651.26	HAYBALES FOR EROSION CONTROL (MOD.)	EA
209.1201 M	HAYBALE / STRAWBALE - TEMPORARY	EA	PAYMENT UNDER	651.26	HAYBALES FOR EROSION CONTROL (MOD. 2)	EA
209.140101 M	SEDIMENT TRAP	EA	PAYMENT UNDER	604.11	CONCRETE MANHOLE WITH CAST IRON COVER (MOD.)	EA
209.13 M	SILT FENCE - TEMPORARY	m^2	PAYMENT UNDER	649.51	GEOTEXTILE FOR SILT FENCE (MOD.)	m^2
209.23 M	PIPE INLET/OUTLET PROTECTION, SILT FENCE - TEMPORARY	m^2	PAYMENT UNDER	649.51	GEOTEXTILE FOR SILT FENCE (MOD. 2)	m^2
304.15 M	SUBBASE COURSE, OPTIONAL TYPE	m^3	PAYMENT UNDER	301.26	SUBBASE OF CRUSHED GRAVEL (FINE GRADED)	m^3
402.011901 M	TYPE 2 F9, ASPHALT TREATED PERMEABLE BASE COURSE	t	PAYMENT UNDER	490.30	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (MOD.)	t
402.126201 M	12.5 mm F2 SUPERPAVE HMA, 60 SERIES COMPACTION	t	PAYMENT UNDER	490.30	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (MOD. 2)	t
402.196901 M	19 mm F9 SUPERPAVE HMA, 60 SERIES COMPACTION	t	PAYMENT UNDER	490.30	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (MOD. 3)	t
402.376901 M	37.5 mm F9 SUPERPAVE HMA, 60 SERIES COMPACTION	t	PAYMENT UNDER	490.30	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (MOD. 4)	t
407.01 M	TACK COAT	L	PAYMENT UNDER	404.45	TAR EMULSION	L
552.16 M	EXCAVATION PROTECTION SYSTEM	m^2	PAYMENT UNDER	505.36	TEMPORARY SHEET PILING	m^2
603.171814 M	GALVANIZED STEEL END SECTIONS-PIPE (68mm x 13mm CORRUGATIONS) 900 mm DIAMETER, 14 GAUGE	EA	PAYMENT UNDER	601.6046	900 mm CSPES 2.1mm (67 mm x 13 mm)	EA
603.9815 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN, 375 mm DIAMETER	m	PAYMENT UNDER	601.2610	375 mm CPEP (SL)	m
603.9830 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN, 750 mm DIAMETER	m	PAYMENT UNDER	601.2625	750 mm CPEP (SL)	m
604.301873 M	RECTANGULAR DRAINAGE STRUCTURE, TYPE 'R', FOR F3 CAST IRON FRAME	EA	PAYMENT UNDER	604.10	CONCRETE CATCH BASIN WITH CAST IRON GRATE (MOD.)	EA
604.302016 M	RECTANGULAR DRAINAGE STRUCTURE, TYPE 'T', FOR #16 WELDED FRAME	EA	PAYMENT UNDER	604.10	CONCRETE CATCH BASIN WITH CAST IRON GRATE (MOD. 2)	EA
605.1001 M	UNDERDRAIN FILTER - TYPE II	m^3	PAYMENT UNDER	204.30	GRANULAR BACKFILL FOR STRUCTURES (MOD.)	m^3
605.1701 M	OPTIONAL UNDERDRAIN PIPE, 100 mm DIAMETER	m	PAYMENT UNDER	605.10	150 mm UNDERDRAIN	m
18605.2101 M	PRECAST CONCRETE HEADWALLS FOR 100 mm DIAMETER LATERAL OUTLET PIPES	EA	PAYMENT UNDER	510.20	PRESTRESSED CONCRETE MEMBER (MOD.)	EA
606.10 M	BOX BEAM GUIDE RAILING	m	PAYMENT UNDER	621.30	BOX BEAM GUARDRAIL	m
606.100001 M	BOX BEAM GUIDE RAILING (SHOP CURVED)	m	PAYMENT UNDER	621.30	BOX BEAM GUARDRAIL (MOD.)	m
606.1201 M	BOX BEAM GUIDE RAILING END ASSEMBLY TYPE I	EA	PAYMENT UNDER	621.70	GUARDRAIL APPROACH SECTION, TYPE I	EA
606.1202 M	BOX BEAM GUIDE RAILING END ASSEMBLY TYPE II	EA	PAYMENT UNDER	621.71	GUIDERAIL APPROACH SECTION, TYPE II	EA
606.1203 M	BOX BEAM GUIDE RAILING END ASSEMBLY TYPE III	EA	PAYMENT UNDER	621.54	MODIFIED ECCENTRIC LOADER TERMINAL	EA
606.61 M	REMOVING AND STORING CORRUGATED BEAM GUIDE RAILING	m	PAYMENT UNDER	621.80	REMOVAL AND DISPOSAL OF GUARDRAIL (MOD.)	m
606.70 M	REMOVING AND DISPOSING CABLE GUIDE RAILING	m	PAYMENT UNDER	621.80	REMOVAL AND DISPOSAL OF GUARDRAIL	m
606.79 M	REMOVING AND DISPOSING ANCHORAGE UNITS FOR CABLE GUIDE RAILING	EA	PAYMENT UNDER	621.60	ANCHOR FOR STEEL BEAM RAIL	EA
606.7910 M	REMOVING AND DISPOSING ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING AND MEDIAN BARRIER	EA	PAYMENT UNDER	621.81	REMOVAL AND DISPOSAL OF GUIDE POST (MOD.)	EA
607.19 M	RIGHT-OF-WAY FENCING	m	PAYMENT UNDER	620.11	CHAIN - LINK FENCE, 1.2 m	m
608.020101 M	ASPHALT CONCRETE SIDEWALKS, DRIVEWAYS & BICYCLE PATHS	t	PAYMENT UNDER	616.47	BITUMINOUS CONCRETE GUTTERS & TRAFFIC ISLANDS	t
609.0405 M	CAST-IN-PLACE CONCRETE CURB, TYPE M100	m	PAYMENT UNDER	616.27	CAST - IN - PLACE CEMENT CONCRETE CURB, TYPE A	m
610.0203 M	ESTABLISHING TURF	m^2	PAYMENT UNDER	654.10	EROSION MATTING	m^2
611.010133 M	PLANTING MAJOR DECIDUOUS TREE SPECIES (SEE CONTRACT DOCUMENTS) 40 mm CALIPER, BALLED & BURLAPPED	EA	PAYMENT UNDER	656.30	DECIDUOUS TREES	EA
611.010174 M	PLANTING MAJOR DECIDUOUS TREE SPECIES (SEE CONTRACT DOCUMENTS) 80 mm CALIPER, B&B, NURSERY GROWN	EA	PAYMENT UNDER	656.30	DECIDUOUS TREES (MOD.)	EA
611.030164 M	PLANTING CONIFEROUS TREE SPECIES (SEE CONTRACT DOCUMENTS) 1.8m HEIGHT, B&B, NURSERY GROWN, SPRING PLANTING	EA	PAYMENT UNDER	656.20	EVERGREEN TREES	EA
611.040133 M	PLANTING DECIDUOUS SHRUB SPECIES (SEE CONTRACT DOCUMENTS) 0.50 m HEIGHT/SPREAD, CONTAINER/POT	EA	PAYMENT UNDER	656.35	DECIDUOUS SHRUBS	EA
613.0101 M	TOPSOIL	m^3	PAYMENT UNDER	651.35	TOPSOIL	m^3
01613.02 M	STOCKPILING AND PLACING WETLAND TOPSOIL	m^3	PAYMENT UNDER	651.35	TOPSOIL (MOD.)	m^3
08615.0402 M	TREE/VEGETATION PROTECTION BARRIER	m	PAYMENT UNDER	620.70	SNOW FENCE	m
619.01 M	BASIC MAINTENANCE & PROTECTION OF TRAFFIC	LS	PAYMENT UNDER	641.10	TRAFFIC CONTROL	LS
619.02 M	CONSTRUCTION SIGNS	LS	PAYMENT UNDER	641.10	TRAFFIC CONTROL (MOD.)	LS
619.0413 M	TYPE III CONSTRUCTION BARRICADES	m	PAYMENT UNDER	621.90	TEMPORARY TRAFFIC BARRIER	m
619.10 M	MAILBOXES	EA	PAYMENT UNDER	617.10	RELOCATE MAIL BOX, SINGLE SUPPORT (MOD.)	EA
15619.1503 M	SHORT TERM PAVEMENT MARKINGS (UNDERLYING COURSE)	m	PAYMENT UNDER	646.60	TEMPORARY 100 mm WHITE LINE (MOD.)	m
15619.1504 M	SHORT TERM PAVEMENT MARKINGS (TOP COURSE)	m	PAYMENT UNDER	646.60	TEMPORARY 100 mm WHITE LINE (MOD. 2)	m
619.17 M	TEMPORARY CONCRETE BARRIER	m	PAYMENT UNDER	621.45	CONCRETE MEDIAN BARRIER	m

Metric

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	0146001	7	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

NOTES:

1. THESE PLANS HAVE BEEN PREPARED BY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) AND THE VERMONT AGENCY OF TRANSPORTATION (VAOT) SUCH THAT ALL WORK WILL BE COMPLETED IN ACCORDANCE WITH THE NYSDOT'S STANDARD SPECIFICATIONS (DATED JANUARY 2, 2002) INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS ISSUED BY THE NYSDOT AND INCLUDED IN THE SPECIAL PROVISIONS FOR THIS CONTRACT AND THE VAOT'S 2001 STANDARD SPECIFICATIONS FOR CONSTRUCTION. ALL CONSTRUCTION AND MATERIALS SPECIFICATIONS WILL FOLLOW THE NYSDOT'S STANDARD SPECIFICATIONS (EXCLUDING SECTION 100) AND ITS SUPPLEMENTAL SPECIFICATIONS INCLUDED IN THE SPECIAL PROVISIONS FOR THIS CONTRACT. THE VAOT'S 2001 STANDARD SPECIFICATIONS FOR CONSTRUCTION SECTION 100 GENERAL PROVISIONS ARE APPLICABLE FOR THIS CONTRACT.

2. TYPICALLY, EACH NYSDOT CONSTRUCTION SPECIFICATION UTILIZED IN THE DEVELOPMENT OF THESE PLANS HAS BEEN CORRELATED TO A VAOT CONSTRUCTION SPECIFICATION OF SIMILAR DESCRIPTION. DWG. C-1 AND DWG. C-2 DEPICT THE CORRELATION OF THE NYSDOT'S ITEM NUMBERS TO THE VAOT'S ITEM NUMBERS.

3. THE PAYMENT UNITS (AND ESTIMATED QUANTITIES) OF THE FOLLOWING NYSDOT CONSTRUCTION SPECIFICATIONS HAVE BEEN CHANGED TO CORRESPOND TO THE VAOT'S TYPICAL PAYMENT UNITS FOR THE APPROPRIATE ITEM.

209.1105 M	CHECK DAM, PREFABRICATED - TEMPORARY (EA)
209.1201 M	HAYBALE/STRAWBALE - TEMPORARY (EA)
209.13 M	SILT FENCE - TEMPORARY (m)
209.23 M	PIPE INLET/OUTLET PROTECTION, SILT FENCE - TEMPORARY (m^2)
604.301873 M	RECTANGULAR DRAINAGE STRUCTURE, TYPE 'R' FOR F3 CAST IRON FRAME (EA)
604.302016 M	RECTANGULAR DRAINAGE STRUCTURE, TYPE 'T' FOR #16 WELDED FRAME (EA)
655.0201 M	FRAMES & GRATES (FABRICATED) (EA)
655.0501 M	STEEL FABRICATED GRATES IN CAST IRON FRAMES (EA)
691.0101 M	TRAINING REQUIREMENTS (HR)

4. TWO SETS OF QUANTITY SHEETS HAVE BEEN INCLUDED IN THESE PLANS. THE FIRST SET OF QUANTITY SHEETS (DWG. VTQ-1 TO DWG. VTQ-4) INCORPORATES THE VAOT'S ITEM NUMBERS, DESCRIPTIONS AND PAYMENT UNITS. THE SOLE PURPOSE FOR THESE SHEETS IS TO PROVIDE A METHOD OF TRACKING PAYMENT COMPATIBLE WITH THE VAOT'S CONSTRUCTION ACCOUNTING SOFTWARE SYSTEM. THIS SET INCLUDES THE BREAKDOWN OF THE RESPECTIVE SHARES ASSOCIATED WITH THIS CONTRACT.

   THE SECOND SET OF QUANTITY SHEETS (DWG. NYQ-1 TO DWG. NYQ-2) SUMMARIZES THE NYSDOT'S ITEM NUMBERS, DESCRIPTIONS AND PAYMENT UNITS. THE PAYMENT UNITS INCLUDED ON THESE SHEETS CORRESPOND TO THE TYPICAL NYSDOT CONSTRUCTION SPECIFICATIONS EXCEPT AS SUMMARIZED IN NOTE 3 ABOVE AND AS MODIFIED BY THE CONTRACT'S SPECIAL PROVISIONS. THESE SHEETS PROVIDE THE TOTAL QUANTITIES ASSOCIATED WITH THIS CONTRACT AND DO NOT INCLUDE THE BREAKDOWN OF THE RESPECTIVE SHARES ASSOCIATED WITH THIS CONTRACT.

NYSDOT/VAOT ITEM CORRELATION SHEET 1

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. NYQUAN.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 7 OF 92 DWG NO. C-1

IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY T. BURTNICK DATE 2/04

CHECKED BY D. GOZALKOWSKI DRAFTED BY C. KAHLBAUGH

FILE NAME = u:\51l8\vgsdot\contract1\vqquan.dgn
DATE/TIME = 2/23/2004
USER = 2225

NYSDOT / VAOT ITEM CORRELATION SHEET

Metric (VAOT)

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	8	92

BENNINGTON CONNECTOR S.H. 98-2
P.I.N. 1306.60
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426
RENSSELAER COUNTY

NYSDOT ITEM NUMBER	NYSDOT DESCRIPTION	UNIT		VAOT ITEM NUMBER	VAOT DESCRIPTION	UNIT
01619.2101 M	SOLAR PORTABLE VARIABLE MESSAGE DISPLAY UNIT	EA	PAYMENT UNDER	641.15	PORTABLE CHANGEABLE MESSAGE BOARD	EA
620.02 M	STONE FILLING (FINE)	m^3	PAYMENT UNDER	613.10	STONE FILL, TYPE I	m^3
620.03 M	STONE FILLING (LIGHT)	m^3	PAYMENT UNDER	613.11	STONE FILL, TYPE II	m^3
620.04 M	STONE FILLING (MEDIUM)	m^3	PAYMENT UNDER	613.12	STONE FILL, TYPE III	m^3
625.04 M	CONCRETE R.O.W MARKERS TYPE L (LOW)	EA	PAYMENT UNDER	619.10	BOUNDARY MARKERS	EA
625.05 M	STEEL PIN AND CAP RIGHT-OF-WAY MARKERS	EA	PAYMENT UNDER	619.10	BOUNDARY MARKERS (MOD.)	EA
645.7102 M	GROUND MOUNTED SIGN PANEL, MUTCD CODES R,P,W AND M, 461 TO 762 mm	m^2	PAYMENT UNDER	675.20	TRAFFIC SIGNS, TYPE A	m^2
645.7103 M	GROUND MOUNTED SIGN PANEL, MUTCD CODES R,P,W AND M, 763 TO 1625 mm	m^2	PAYMENT UNDER	675.20	TRAFFIC SIGNS, TYPE A (MOD.)	m^2
645.73 M	GROUND MOUNTED SIGN PANELS, MUTCD CODES G & I	m^2	PAYMENT UNDER	675.21	TRAFFIC SIGNS, TYPE B	m^2
645.81 M	TYPE A SIGN POST	EA	PAYMENT UNDER	675.61	SETTING SALVAGED POSTS (MOD.)	EA
645.8106 M	HIGH CAPACITY TYPE A SIGN POST	EA	PAYMENT UNDER	675.61	SETTING SALVAGED POSTS (MOD. 2)	EA
645.830402 M	TYPE B SIGN POST, GALVANIZED, W200X22.5 SECTION, BI-DIRECTIONAL BREAKAWAY BASE	EA	PAYMENT UNDER	675.61	SETTING SALVAGED POSTS (MOD. 3)	EA
646.0601 M	DELINEATOR, SINGLE UNIT, ONE WAY, ON POST	EA	PAYMENT UNDER	676.10	DELINEATORS W/STEEL POSTS	EA
646.0602 M	DELINEATOR, SINGLE UNIT, BACK TO BACK, ON POST	EA	PAYMENT UNDER	676.10	DELINEATORS W/STEEL POSTS (MOD.)	EA
646.0603 M	DELINEATOR, SINGLE UNIT, TWO WAY, ON POST	EA	PAYMENT UNDER	676.10	DELINEATORS W/STEEL POSTS (MOD. 2)	EA
646.0604 M	DELINEATOR, SINGLE UNIT, THREE WAY, ON POST	EA	PAYMENT UNDER	676.10	DELINEATORS W/STEEL POSTS (MOD. 3)	EA
646.0701 M	REFERENCE MARKER, 1.2 m MOUNTING HEIGHT	EA	PAYMENT UNDER	675.60	ERECTING SALVAGED SIGNS (MOD.)	EA
646.0705 M	REFERENCE MARKER, FURNISH PANEL ONLY	EA	PAYMENT UNDER	675.60	ERECTING SALVAGED SIGNS (MOD. 2)	EA
646.0801 M	SNOWPLOWING MARKER, SINGLE UNIT	EA	PAYMENT UNDER	676.10	DELINEATORS W/STEEL POSTS (MOD.4)	EA
646.0802 M	SNOWPLOWING MARKER, DOUBLE UNIT	EA	PAYMENT UNDER	676.10	DELINEATORS W/STEEL POSTS (MOD.5)	EA
646.0803 M	SUPPLEMENTARY SNOWPLOWING MARKER	EA	PAYMENT UNDER	676.10	DELINEATORS W/STEEL POSTS (MOD.6)	EA
647.01 M	REMOVAL OF SIGNS - SIZE A (0.0 TO 1.0 sm)	EA	PAYMENT UNDER	675.50	REMOVING SIGNS	EA
647.02 M	REMOVAL OF SIGNS - SIZE B (1.1 TO 2.0 sm)	EA	PAYMENT UNDER	675.50	REMOVING SIGNS (MOD.)	EA
655.0201 M	FRAMES & GRATES (FABRICATED)	EA	PAYMENT UNDER	604.47	CAST IRON GRATE WITH FRAME, TYPE D	EA
655.0501 M	STEEL FABRICATED GRATES IN CAST IRON FRAMES	EA	PAYMENT UNDER	604.47	CAST IRON GRATE WITH FRAME, TYPE D (MOD.)	EA
680.5001 M	POLE EXCAVATION AND CONCRETE FOUNDATION	m^3	PAYMENT UNDER	204.20	TRENCH EXCAVATION OF EARTH (MOD.)	m^3
680.510501 M	PULLBOX - RECTANGULAR 650 mm x 450 mm, REINFORCED CONCRETE	EA	PAYMENT UNDER	678.25	PULLBOX - STANDARD	EA
680.520103 M	CONDUIT METAL STEEL, ZINC COATED, 1 NPS	m	PAYMENT UNDER	678.21	ELECTRICAL CONDUIT	m
680.520106 M	CONDUIT METAL STEEL, ZINC COATED, 2 NPS	m	PAYMENT UNDER	678.21	ELECTRICAL CONDUIT (MOD.)	m
680.603011 M	TRAFFIC SIGNAL POLE - SPAN WIRE, 30 kN LOAD 11 m	EA	PAYMENT UNDER	678.15	TRAFFIC CONTROL SIGNAL SYSTEM - INTERSECTION	EA
680.7002 M	DUAL SPAN WIRE WITH UPPER TETHER WIRE	EA	PAYMENT UNDER	678.15	TRAFFIC CONTROL SIGNAL SYSTEM - INTERSECTION (MOD.)	EA
680.730514 M	SIGNAL CABLE, 5 CONDUCTOR, 14 AWG	m	PAYMENT UNDER	678.24	ELECTRICAL WIRING	m
680.731514 M	SIGNAL CABLE, 15 CONDUCTOR, 14 AWG	m	PAYMENT UNDER	678.24	ELECTRICAL WIRING (MOD.)	m
15680.806202 M	INTERSECTION FLASHER (SOLID STATE) WITH CABINET	EA	PAYMENT UNDER	678.26	JUNCTION BOX	EA
680.810101 M	TRAFFIC SIGNAL MODULE - 300 mm RED BALL, LED	EA	PAYMENT UNDER	678.17	FLASHING BEACON - AERIALLY MOUNTED	EA
680.810103 M	TRAFFIC SIGNAL MODULE - 300 mm YELLOW BALL LED	EA	PAYMENT UNDER	678.17	FLASHING BEACON - AERIALLY MOUNTED (MOD.)	EA
680.810107 M	TRAFFIC SIGNAL SECTION, TYPE 1, 300 mm	EA	PAYMENT UNDER	678.17	FLASHING BEACON - AERIALLY MOUNTED (MOD. 2)	EA
680.8204 M	OVERHEAD SIGN ASSEMBLY, TYPE D	EA	PAYMENT UNDER	680.70	TRAVEL INFORMATION SYMBOL	EA
01680.9092 M	ELECTRIC METER SOCKET, 100A, SINGLE PHASE, 120V	EA	PAYMENT UNDER	678.15	TRAFFIC CONTROL SIGNAL SYSTEM - INTERSECTION (MOD. 2)	EA
15680.94 M	RAINTIGHT DISCONNECT BOX	EA	PAYMENT UNDER	678.26	JUNCTION BOX (MOD.)	EA
15680.950106 M	POWER CABLE, 1 CONDUCTOR, 6 AWG	m	PAYMENT UNDER	678.24	ELECTRICAL WIRING (MOD. 2)	m
685.11 M	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES - 0.51 mm	m	PAYMENT UNDER	646.40	DURABLE 100 mm WHITE LINE	m
685.12 M	YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPES - 0.51 mm	m	PAYMENT UNDER	646.41	DURABLE 100 mm YELLOW LINE	m
688.01 M	WHITE PREFORMED REFLECTORIZED PAVEMENT STRIPES	m	PAYMENT UNDER	646.40	DURABLE 100 mm WHITE LINE (MOD.)	m
688.03 M	WHITE PREFORMED REFLECTORIZED PAVEMENT LETTERS	EA	PAYMENT UNDER	646.50	DURABLE LETTER OR SYMBOL	EA
688.04 M	WHITE PERFORMED REFLECTORIZED PAVEMENT SYMBOLS	EA	PAYMENT UNDER	646.50	DURABLE LETTER OR SYMBOL (MOD.)	EA
691.0101 M	TRAINING REQUIREMENTS	HR	PAYMENT UNDER	634.10	EMPLOYEE TRAINEESHIP	HR
699.04 M	MOBILIZATION (4%)	LS	PAYMENT UNDER	635.10	MOBILIZATION	LS

VAOT DESCRIPTION

ITEM 203.17 MOD UNCLASSIFIED EXCAVATION	496.8 CM
ITEM 203.32 GRANULAR BORROW	496.8 CM
ITEM 406.50 ASPHALT PRICE ADJUSTMENT	100%
ITEM 621.80 MOD 2 REMOVAL AND DISPOSAL OF GR	384 M
ITEM 641.10 MOD TRAFFIC CONTROL MOD	100%
ITEM 649.11 GEOTEXTILE FOR ROADBED	2663.1 SM
ITEM 649.11 MOD GEOTEXTILE FOR ROADBED	900 SM
ITEM 679.28 POWER STANCHION	1 EA
ITEM 900.06 ELIMINATION OF RT 7 CLOSURE	100%
ITEM 900.07 TREE REMOVAL	100%
ITEM 900.08 RELOCATING FENCE	100%

DESIGNED BY D.EMERICH CHECKED BY D.EMERICH
DRAFTED BY C.KAHLBAUGH CHECKED BY D.GOZALKOWSKI
ESTIMATED BY D.EMERICH CHECKED BY T.BURTNICK DATE 2/04
IN CHARGE OF T.KARIS CHECKED BY D.GOZALKOWSKI

FILE NAME = u:\5116\nydot\contract1\nyquan.dgn
DATE/TIME = 2/23/2004
USER = 2225

NYSDOT/VAOT ITEM CORRELATION SHEET 2

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. NYQUAN.DGN
PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1
PROJ. NO. P.I.N. 1306.60
SHEET 8 OF 92 DWG NO. C-2

STATE OF VERMONT
AGENCY OF TRANSPORTATION

VAOT QUANTITY SHEET

VAOT Metric

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	0146001	9	92

BENNINGTON CONNECTOR S.H. 98-2
P.I.N. 1306.60
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426
RENSSELAER COUNTY

SUMMARY OF ESTIMATED QUANTITIES

FINAL QUANTITY		EMPLOYEE TRAINEESHIP	LANDSCAPING	EROSION CONTROL	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NUMBER	RND
1		-	-	-	1	1	LS	CLEARING AND GRUBBING	201.10	-
1		-	-	-	1	1	LS	CLEARING AND GRUBBING (MOD.)	201.10	-
19459		-	-	-	20000	20000	m^3	UNCLASSIFIED EXCAVATION	203.17	-
4.7		-	-	-	5	5	m	UNCLASSIFIED DITCHING	203.18	-
20605		-	-	-	18000	18000	m^3	EARTH BORROW	203.30	-
7612		-	-	-	7600	7600	m^3	GRANULAR BORROW	203.32	-
899		-	-	-	930	930	m^3	TRENCH EXCAVATION OF EARTH	204.20	-
5.5		-	-	-	6	6	m^3	TRENCH EXCAVATION OF EARTH (MOD.)	204.20	-
247		-	-	-	260	260	m^3	GRANULAR BACKFILL FOR STRUCTURES	204.30	-
490		-	-	-	460	460	m^3	GRANULAR BACKFILL FOR STRUCTURES (MOD.)	204.30	-
4323		-	-	-	4500	4500	m^3	SUBBASE OF CRUSHED GRAVEL (FINE GRADED)	301.26	-
5597		-	-	-	2800	2800	L	TAR EMULSION	404.45	-
2179		-	-	-	2500	2500	t	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (MOD.)	490.30	-
1102		-	-	-	1000	1000	t	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (MOD. 2)	490.30	-
1406		-	-	-	1300	1300	t	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (MOD. 3)	490.30	-
3964		-	-	-	4000	4000	t	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (MOD. 4)	490.30	-
55		-	-	-	56	56	m^2	TEMPORARY SHEET PILING	505.36	-
24		-	-	-	18	18	EA	PRESTRESSED CONCRETE MEMBER (MOD.)	510.20	-
54		-	-	-	54	54	m	375 mm CPEP (SL)	601.2610	-
94		-	-	-	94	94	m	750 mm CPEP (SL)	601.2625	-
5		-	-	-	2	2	EA	900 mm CSPES 2.1mm (67 mm x 13 mm)	601.6046	-
0		-	-	-	239	239	m	CLEANING CULVERT PIPE IN PLACE (GREATER THAN 600 mm)	601.996	-
1		-	-	-	1	1	EA	CONCRETE CATCH BASIN WITH CAST IRON GRATE (MOD.)	604.10	-
3		-	-	-	3	3	EA	CONCRETE CATCH BASIN WITH CAST IRON GRATE (MOD. 2)	604.10	-
1		-	-	1	-	1	EA	CONCRETE MANHOLE WITH CAST IRON COVER (MOD.)	604.11	-
3		-	-	-	3	3	EA	CAST IRON GRATE WITH FRAME, TYPE D	604.47	-
1		-	-	-	1	1	EA	CAST IRON GRATE WITH FRAME, TYPE D (MOD.)	604.47	-
1423		-	-	-	1525	1525	m	150 mm UNDERDRAIN	605.10	-
13.95		-	-	-	15	15	m^3	STONE FILL, TYPE I	613.10	-

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

PROJECT: BENNINGTON - HOOSICK
PROJECT NO.: D.P.I. 0146(1) C/1

DESIGN FILE NAME: CONTRACT1/NYQUAN.DGN
IPARM FILE NAME: N/A
SURVEYED BY: CHA. & V.S.E.
SQUAD LEADER: T.P.K.
SHEET: 9 OF 92

PLOT DATE: 2/04
SURVEY DATE: N/A
DRAWN BY: E.C.D.
DWG. NO. VTQ-1

DATE 2/04
CHECKED BY T. BURTNICK
CHECKED BY C. KAHLBAUGH
DRAFTED BY D. GOZALKOWSKI
CHECKED BY D. EMERICH
ESTIMATED BY D. EMERICH
CHECKED BY D. GOZALKOWSKI
CHECKED BY D. EMERICH
DESIGNED BY T. KARIS
IN CHARGE OF

FILE NAME = u:\civil\nydot\contract1\nyquan.dgn
DATE/TIME = 2/27/2004
USER = 2225

STATE OF VERMONT
AGENCY OF TRANSPORTATION

VAOT QUANTITY SHEET

VAOT Metric

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	0146001	10	92

BENNINGTON CONNECTOR S.H. 98-2
P.I.N. 1306.60
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426
RENSSELAER COUNTY

SUMMARY OF ESTIMATED QUANTITIES

FINAL QUANTITY	EMPLOYEE TRAINEESHIP	LANDSCAPING	EROSION CONTROL	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NUMBER	RND
27.72	-	-	-	14	14	m^3	STONE FILL, TYPE II	613.11	-
88	-	-	-	25	25	m^3	STONE FILL, TYPE III	613.12	-
112	-	-	-	112	112	m	CAST - IN - PLACE CEMENT CONCRETE CURB, TYPE A	616.27	-
378	-	-	-	500	500	t	BITUMINOUS CONCRETE GUTTERS & TRAFFIC ISLANDS	616.47	-
4	-	-	-	4	4	EA	RELOCATE MAIL BOX, SINGLE SUPPORT (MOD.)	617.10	-
16	-	-	-	16	16	EA	BOUNDARY MARKERS	619.10	-
7	-	-	-	7	7	EA	BOUNDARY MARKERS (MOD.)	619.10	-
617	-	-	-	565	565	m	CHAIN - LINK FENCE, 1.2 m	620.11	-
544	-	-	-	625	625	m	SNOW FENCE	620.70	-
743	-	-	-	835	835	m	BOX BEAM GUARDRAIL	621.30	-
183	-	-	-	75	75	m	BOX BEAM GUARDRAIL (MOD.)	621.30	-
0	-	-	-	10	10	m	CONCRETE MEDIAN BARRIER	621.45	-
1	-	-	-	3	3	EA	MODIFIED ECCENTRIC LOADER TERMINAL	621.54	-
0	-	-	-	2	2	EA	ANCHOR FOR STEEL BEAM RAIL	621.60	-
3	-	-	-	2	2	EA	GUARDRAIL APPROACH SECTION, TYPE I	621.70	-
4	-	-	-	2	2	EA	GUIDERAIL APPROACH SECTION, TYPE II	621.71	-
0	-	-	-	72	72	m	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	-
384	-	-	-	301	301	m	REMOVAL AND DISPOSAL OF GUARDRAIL (MOD.)	621.80	-
0	-	-	-	3	3	EA	REMOVAL AND DISPOSAL OF GUIDE POST (MOD.)	621.81	-
29	-	-	-	60	60	m	TEMPORARY TRAFFIC BARRIER	621.90	-
520	520	-	-	-	520	HR	EMPLOYEE TRAINEESHIP	634.10	-
1	-	-	-	1	1	LS	MOBILIZATION	635.10	-
1	-	-	-	1	1	LS	TRAFFIC CONTROL	641.10	-
1	-	-	-	1	1	LS	TRAFFIC CONTROL (MOD.)	641.10	-
2	-	-	-	5	5	EA	PORTABLE CHANGEABLE MESSAGE BOARD	641.15	-
7744	-	-	-	5520	5520	m	DURABLE 100 mm WHITE LINE	646.40	-
89	-	-	-	60	60	m	DURABLE 100 mm WHITE LINE (MOD.)	646.40	-
11955	-	-	-	10700	10700	m	DURABLE 100 mm YELLOW LINE	646.41	-
8	-	-	-	8	8	EA	DURABLE LETTER OR SYMBOL	646.50	-

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

PROJECT: BENNINGTON - HOOSICK
PROJECT NO.: D.P.I. 0146(1) C/1

DESIGN FILE NAME: CONTRACT1/NYQUAN.DGN
IPARM FILE NAME: N/A
SURVEYED BY: CHA. & V.S.E.
SQUAD LEADER: T.P.K.
SHEET: 10 OF 92
PLOT DATE: 2/04
SURVEY DATE: N/A
DRAWN BY: E.C.D.
DWG. NO. VTQ-2

DATE 2/04
CHECKED BY I. BURTNICK
DRAFTED BY C. KAHLBAUGH
CHECKED BY D. GOZALKOWSKI
ESTIMATED BY D. EMERICH
CHECKED BY D. EMERICH
DESIGNED BY T. KARIS
IN CHARGE OF

FILE NAME = u:\s1161\vaqdot\contract1\nyquan.dgn
DATE/TIME = 2/27/2004
USER = 2225

STATE OF VERMONT
AGENCY OF TRANSPORTATION

VAOT QUANTITY SHEET

VAOT Metric

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	0146001	II	92

BENNINGTON CONNECTOR S.H. 98-2
P.I.N. 1306.60
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426
RENSSELAER COUNTY

SUMMARY OF ESTIMATED QUANTITIES

FINAL QUANTITY		EMPLOYEE TRAINEESHIP	LANDSCAPING	EROSION CONTROL	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NUMBER	RND
2		-	-	-	2	2	EA	DURABLE LETTER OR SYMBOL (MOD.)	646.50	-
0		-	-	-	300	300	m	TEMPORARY 100 mm WHITE LINE (MOD.)	646.60	-
0		-	-	-	300	300	m	TEMPORARY 100 mm WHITE LINE (MOD. 2)	646.60	-
1078		-	-	-	850	850	m²	GEOTEXTILE UNDER STONE FILL	649.31	-
		-	-	910	-	910	m²	GEOTEXTILE FOR SILT FENCE (MOD.)	649.51	-
		-	-	20	-	20	m²	GEOTEXTILE FOR SILT FENCE (MOD. 2)	649.51	-
		-	-	12	-	12	EA	HAYBALES FOR EROSION CONTROL (MOD.)	651.26	-
		-	-	250	-	250	EA	HAYBALES FOR EROSION CONTROL (MOD. 2)	651.26	-
1078		-	-	-	850	850	m³	TOPSOIL	651.35	-
640		-	-	-	650	650	m³	TOPSOIL (MOD.)	651.35	-
14382		-	-	-	11000	11000	m²	EROSION MATTING	654.10	-
		-	-	25000	-	25000	m²	EROSION MATTING (MOD.)	654.10	-
1		-	1	-	-	1	EA	EVERGREEN TREES	656.20	-
10		-	10	-	-	10	EA	DECIDUOUS TREES	656.30	-
8		-	8	-	-	8	EA	DECIDUOUS TREES (MOD.)	656.30	-
29		-	29	-	-	29	EA	DECIDUOUS SHRUBS	656.35	-
26		-	-	-	22	22	m²	TRAFFIC SIGNS, TYPE A	675.20	-
22		-	-	-	11	11	m²	TRAFFIC SIGNS, TYPE A (MOD.)	675.20	-
17		-	-	-	18	18	m²	TRAFFIC SIGNS, TYPE B	675.21	-
0		-	-	-	1	1	EA	REMOVING SIGNS	675.50	-
0		-	-	-	1	1	EA	REMOVING SIGNS (MOD.)	675.50	-
9		-	-	-	13	13	EA	ERECTING SALVAGED SIGNS (MOD.)	675.60	-
7		-	-	-	3	3	EA	ERECTING SALVAGED SIGNS (MOD. 2)	675.60	-
42		-	-	-	52	52	EA	SETTING SALVAGED POSTS (MOD.)	675.61	-
2		-	-	-	4	4	EA	SETTING SALVAGED POSTS (MOD. 2)	675.61	-
4		-	-	-	2	2	EA	SETTING SALVAGED POSTS (MOD. 3)	675.61	-
98		-	-	-	100	100	EA	DELINEATORS W/STEEL POSTS	676.10	-
0		-	-	-	23	23	EA	DELINEATORS W/STEEL POSTS (MOD.)	676.10	-
10		-	-	-	5	5	EA	DELINEATORS W/STEEL POSTS (MOD. 2)	676.10	-

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

DATE 2/04
CHECKED BY T. BURTNICK
DRAFTED BY C. KAHLBAUGH
CHECKED BY D. GOZALKOWSKI
ESTIMATED BY D. EMERICH
CHECKED BY D. GOZALKOWSKI
DESIGNED BY D. EMERICH
IN CHARGE OF T. KARIS

FILE NAME = u:\5116\roadot\contract1\nyquan.dgn
DATE/TIME = 2/23/2004
USER = 2225

PROJECT: BENNINGTON - HOOSICK
PROJECT NO.: D.P.I. 0146(1) C/1
DESIGN FILE NAME: CONTRACT1/NYQUAN.DGN
IPARM FILE NAME: N/A
SURVEYED BY: CHA. & V.S.E.
SQUAD LEADER: T.P.K.
SHEET: II OF 92
PLOT DATE: 2/04
SURVEY DATE: N/A
DRAWN BY: E.C.D.
DWG. NO. VTQ-3

STATE OF VERMONT
AGENCY OF TRANSPORTATION

VAOT QUANTITY SHEET

VAOT Metric

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	12	92

BENNINGTON CONNECTOR S.H. 98-2
P.I.N. 1306.60
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426
RENSSELAER COUNTY

SUMMARY OF ESTIMATED QUANTITIES

FINAL QUANTITY	EMPLOYEE TRAINEESHIP	LANDSCAPING	EROSION CONTROL	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NUMBER	RND
5	-	-	-	2	2	EA	DELINEATORS W/STEEL POSTS (MOD. 3)	676.10	-
10	-	-	-	6	6	EA	DELINEATORS W/STEEL POSTS (MOD. 4)	676.10	-
9	-	-	-	7	7	EA	DELINEATORS W/STEEL POSTS (MOD. 5)	676.10	-
6	-	-	-	8	8	EA	DELINEATORS W/STEEL POSTS (MOD. 6)	676.10	-
2	-	-	-	2	2	EA	TRAFFIC CONTROL SIGNAL SYSTEM - INTERSECTION	678.15	-
1	-	-	-	1	1	EA	TRAFFIC CONTROL SIGNAL SYSTEM - INTERSECTION (MOD.)	678.15	-
1	-	-	-	1	1	EA	TRAFFIC CONTROL SIGNAL SYSTEM - INTERSECTION (MOD. 2)	678.15	-
2	-	-	-	2	2	EA	FLASHING BEACON - AERIALLY MOUNTED	678.17	-
4	-	-	-	4	4	EA	FLASHING BEACON - AERIALLY MOUNTED (MOD.)	678.17	-
6	-	-	-	6	6	EA	FLASHING BEACON - AERIALLY MOUNTED (MOD. 2)	678.17	-
8.5	-	-	-	10	10	m	ELECTRICAL CONDUIT	678.21	-
8.5	-	-	-	5	5	m	ELECTRICAL CONDUIT (MOD.)	678.21	-
144	-	-	-	140	140	m	ELECTRICAL WIRING	678.24	-
36.6	-	-	-	40	40	m	ELECTRICAL WIRING (MOD.)	678.24	-
25.5	-	-	-	100	100	m	ELECTRICAL WIRING (MOD. 2)	678.24	-
2	-	-	-	2	2	EA	PULLBOX - STANDARD	678.25	-
1	-	-	-	1	1	EA	JUNCTION BOX	678.26	-
1	-	-	-	1	1	EA	JUNCTION BOX (MOD.)	678.26	-
1	-	-	-	1	1	EA	TRAVEL INFORMATION SYMBOL	680.70	-

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

DESIGNED BY I. KARIS
DRAFTED BY D. GOZALKOWSKI
CHECKED BY D. EMERICH
ESTIMATED BY D. EMERICH
CHECKED BY D. GOZALKOWSKI
CHECKED BY C. KAHLBAUGH
CHECKED BY T. BURTNICK
DATE 2/04
IN CHARGE OF D. EMERICH

FILE NAME = u:\SIS\projects\contracts\nyquan.dgn
DATE/TIME = 2/27/2004
USER = 2225

PROJECT: BENNINGTON - HOOSICK
PROJECT NO.: D.P.I. 0146(1) C/1

DESIGN FILE NAME: CONTRACT1/NYQUAN.DGN
IPARM FILE NAME: N/A
SURVEYED BY: CHA. & V.S.E.
SQUAD LEADER: T.P.K.
SHEET: 12 OF 92
PLOT DATE: 2/04
SURVEY DATE: N/A
DRAWN BY: E.C.D.
DWG. NO. VTQ-4

NYSDOT ESTIMATE OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	
201.06 M	CLEARING AND GRUBBING	LS	NEC	
202.0300001 M	RELOCATING BUILDINGS	LS	NEC	
203.02 M	UNCLASSIFIED EXCAVATION & DISPOSAL	m³	20000	
203.03 M	EMBANKMENT IN PLACE	m³	18000	
203.07 M	SELECT GRANULAR FILL	m³	260	
203.1770 M	CLEANING CULVERTS WITH SPAN OF 1300 mm OR LESS	m	239	
203.20 M	SELECT GRANULAR SUBGRADE	m³	7600	
206.02 M	TRENCH AND CULVERT EXCAVATION	m³	930	
206.03 M	CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION	m	5	
207.10 M	GEOTEXTILE BEDDING	m²	850	
209.1001 M	MULCH - TEMPORARY	m²	25000	
209.1105 M	CHECK DAM, PREFABRICATED - TEMPORARY	EA	12	
209.1201 M	HAYBALE / STRAWBALE - TEMPORARY	EA	250	
209.13 M	SILT FENCE - TEMPORARY	m²	910	
209.1401 01 M	SEDIMENT TRAP	EA	1	
209.23 M	PIPE INLET / OUTLET PROTECTION, SILT FENCE - TEMPORARY	m²	20	
304.15 M	SUBBASE COURSE, OPTIONAL TYPE	m³	4500	
402.011901 M	TYPE 2 F9, ASPHALT TREATED PERMEABLE BASE COURSE	t	2500	
402.126201 M	12.5 mm F2 SUPERPAVE HMA, 60 SERIES COMPACTION	t	1000	
402.196901 M	19 mm F9 SUPERPAVE HMA, 60 SERIES COMPACTION	t	1300	
402.376901 M	37.5 mm F9 SUPERPAVE HMA, 60 SERIES COMPACTION	t	4000	
407.01 M	TACK COAT	L	2800	
552.16 M	EXCAVATION PROTECTION SYSTEM	m²	56	
603.171814 M	GALVANIZED STEEL END SECTIONS-PIPE (68mm x 13mm CORRUGATIONS) 900 mm DIAMETER, 14 GAUGE	EA	2	
603.9815 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN, 375 mm DIAMETER	m	54	
603.9830 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN, 750 mm DIAMETER	m	94	
604.301873 M	RECTANGULAR DRAINAGE STRUCTURE, TYPE "R", FOR F3 CAST IRON FRAME	EA	1	
604.302016 M	RECTANGULAR DRAINAGE STRUCTURE, TYPE "T", FOR #16 WELDED FRAME	EA	3	
605.1001 M	UNDERDRAIN FILTER - TYPE II	m³	460	
605.1701 M	OPTIONAL UNDERDRAIN PIPE, 100 mm DIAMETER	m	1525	
18605.2101 M	PRECAST CONCRETE HEADWALLS FOR 100 mm DIAMETER LATERAL OUTLET PIPES	EA	18	
606.10 M	BOX BEAM GUIDE RAILING	m	835	
606.1000001 M	BOX BEAM GUIDE RAILING (SHOP CURVED)	m	75	
606.1201 M	BOX BEAM GUIDE RAILING END ASSEMBLY TYPE I	EA	2	
606.1202 M	BOX BEAM GUIDE RAILING END ASSEMBLY TYPE II	EA	2	
606.1203 M	BOX BEAM GUIDE RAILING END ASSEMBLY TYPE III	EA	3	
606.61 M	REMOVING AND STORING CORRUGATED BEAM GUIDE RAILING	m	301	
606.70 M	REMOVING AND DISPOSING CABLE GUIDE RAILING	m	72	
606.79 M	REMOVING AND DISPOSING ANCHORAGE UNITS FOR CABLE GUIDE RAILING	EA	2	
606.7910 M	REMOVING AND DISPOSING ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING AND MEDIAN BARRIER	EA	3	
607.19 M	RIGHT-OF-WAY FENCING	m	565	
608.020101 M	ASPHALT CONCRETE SIDEWALKS, DRIVEWAYS & BICYCLE PATHS	t	500	
609.0405 M	CAST-IN-PLACE CONCRETE CURB, TYPE M100	m	112	
610.0203 M	ESTABLISHING TURF	m²	11000	
611.010133 M	PLANTING MAJOR DECIDUOUS TREE SPECIES (SEE CONTRACT DOCUMENTS), 40 mm CALIPER, BALLED & BURLAPPED	EA	10	
611.010174 M	PLANTING MAJOR DECIDUOUS TREE SPECIES (SEE CONTRACT DOCUMENTS) 80 mm CALIPER, B&B, NURSERY GROWN	EA	8	
611.030164 M	PLANTING CONIFEROUS TREE SPECIES (SEE CONTRACT DOCUMENTS) 1.8m HEIGHT, B&B, NURSERY GROWN, SPRING PLANTING	EA	1	
611.040133 M	PLANTING DECIDUOUS SHRUB SPECIES (SEE CONTRACT DOCUMENTS) 0.50 m HEIGHT/SPREAD, CONTAINER/POT	EA	29	
613.0101 M	TOPSOIL	m³	850	
01613.02 M	STOCKPILING AND PLACING WETLAND TOPSOIL	m³	650	
08615.0402 M	TREE/VEGETATION PROTECTION BARRIER	m	625	
619.01 M	BASIC MAINTENANCE & PROTECTION OF TRAFFIC	LS	NEC	
619.02 M	CONSTRUCTION SIGNS	LS	NEC	
619.0413 M	TYPE III CONSTRUCTION BARRICADES	m	60	
619.10 M	MAILBOXES	EA	4	
15619.1503 M	SHORT TERM PAVEMENT MARKINGS (UNDERLYING COURSE)	m	300	
15619.1504 M	SHORT TERM PAVEMENT MARKINGS (TOP COURSE)	m	300	
619.17 M	TEMPORARY CONCRETE BARRIER	m	10	

Metric

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	13	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

NYSDOT ESTIMATE OF QUANTITIES

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NYQUAN.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 13 OF 92 DWG NO. NYQ-1

DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI
DRAFTED BY C. KAHLBAUGH CHECKED BY I. BURTNICK DATE 2/04
ESTIMATED BY D. EMERICH CHECKED BY D. GOZALKOWSKI
CHECKED BY D. GOZALKOWSKI
IN CHARGE OF T. KARIS

FILE NAME = u:\5116\ydata\contract1\nyquan.dgn
DATE/TIME = 2/23/2004
USER = 2225

NYSDOT ESTIMATE OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	
01619.2101 M	SOLAR PORTABLE VARIABLE MESSAGE DISPLAY UNIT	EA	5	
620.02 M	STONE FILLING (FINE)	m^3	15	
620.03 M	STONE FILLING (LIGHT)	m^3	14	
620.04 M	STONE FILLING (MEDIUM)	m^3	25	
625.04 M	CONCRETE R.O.W MARKERS TYPE L (LOW)	EA	16	
625.05 M	STEEL PIN AND CAP RIGHT-OF-WAY MARKERS	EA	7	
645.7102 M	GROUND MOUNTED SIGN PANEL, MUTCD CODES R,P,W AND M, 461 TO 762 mm	m^2	22	
645.7103 M	GROUND MOUNTED SIGN PANEL, MUTCD CODES R,P,W AND M, 763 TO 1625 mm	m^2	11	
645.73 M	GROUND MOUNTED SIGN PANELS, MUTCD CODES G & I	m^2	18	
645.81 M	TYPE A SIGN POST	EA	52	
645.8106 M	HIGH CAPACITY TYPE A SIGN POST	EA	4	
645.830402 M	TYPE B SIGN POST, GALVANIZED, W200X22.5 SECTION, BI-DIRECTIONAL BREAKAWAY BASE	EA	2	
646.0601 M	DELINEATOR, SINGLE UNIT, ONE WAY, ON POST	EA	100	
646.0602 M	DELINEATOR, SINGLE UNIT, BACK TO BACK, ON POST	EA	23	
646.0603 M	DELINEATOR, SINGLE UNIT, TWO WAY, ON POST	EA	5	
646.0604 M	DELINEATOR, SINGLE UNIT, THREE WAY, ON POST	EA	2	
646.0701 M	REFERENCE MARKER, 1.2 m MOUNTING HEIGHT	EA	13	
646.0705 M	REFERENCE MARKER, FURNISH PANEL ONLY	EA	3	
646.0801 M	SNOW PLOWING MARKER, SINGLE UNIT	EA	6	
646.0802 M	SNOW PLOWING MARKER, DOUBLE UNIT	EA	7	
646.0803 M	SUPPLEMENTARY SNOW PLOWING MARKER	EA	8	
647.01 M	REMOVAL OF SIGNS - SIZE A (0.0 TO 1.0 sm)	EA	1	
647.02 M	REMOVAL OF SIGNS - SIZE B (1.1 TO 2.0 sm)	EA	1	
655.0201 M	FRAMES & GRATES (FABRICATED)	EA	3	
655.0501 M	STEEL FABRICATED GRATES IN CAST IRON FRAMES	EA	1	
680.5001 M	POLE EXCAVATION AND CONCRETE FOUNDATION	m^3	6	
680.510501 M	PULLBOX-RECTANGULAR 650 mm x 450 mm, REINFORCED CONCRETE	EA	2	
680.520103 M	CONDUIT METAL STEEL, ZINC COATED, 1 NPS	m	10	
680.520106 M	CONDUIT METAL STEEL, ZINC COATED, 2 NPS	m	5	
680.603011 M	TRAFFIC SIGNAL POLE-SPAN WIRE, 30 kN LOAD, 11 m	EA	2	
680.7002 M	DUAL SPAN WIRE WITH UPPER TETHER WIRE	EA	1	
680.730514 M	SIGNAL CABLE, 5 CONDUCTOR, 14 AWG	m	140	
680.731514 M	SIGNAL CABLE, 15 CONDUCTOR, 14 AWG	m	40	
15680.806202 M	INTERSECTION FLASHER (SOLID STATE) WITH CABINET	EA	1	
680.810101 M	TRAFFIC SIGNAL MODULE - 300 mm, RED BALL, LED	EA	2	
680.810103 M	TRAFFIC SIGNAL MODULE - 300 mm, YELLOW BALL, LED	EA	4	
680.810107 M	TRAFFIC SIGNAL SECTION, TYPE 1, 300 mm	EA	6	
680.8204 M	OVERHEAD SIGN ASSEMBLY, TYPE D	EA	1	
01680.9092 M	ELECTRIC METER SOCKET, 100A, SINGLE PHASE, 120V	EA	1	
15680.94 M	RAINTIGHT DISCONNECT BOX	EA	1	
15680.950106 M	POWER CABLE, 1 CONDUCTOR, 6 AWG	m	100	
685.11 M	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES - 0.51 mm	m	5520	
685.12 M	YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPES - 0.51 mm	m	10700	
688.01 M	WHITE PREFORMED REFLECTORIZED PAVEMENT STRIPES	m	60	
688.03 M	WHITE PREFORMED REFLECTORIZED PAVEMENT LETTERS	EA	8	
688.04 M	WHITE PERFORMED REFLECTORIZED PAVEMENT SYMBOLS	EA	2	
691.1001 M	TRAINING REQUIREMENTS	HR	520	
699.04 M	MOBILIZATION (4%)	LS	NEC	

Metric

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	14	92

BENNINGTON CONNECTOR S.H. 98-2
P.I.N. 1306.60
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426
RENSSELAER COUNTY

IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY D. GOZALKOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY T. BURTNICK DATE 2/04

FILE NAME = u:\51i6\nysdot\contract1\nyquan.dgn
DATE/TIME = 2/23/2004
USER = 2225

NYSDOT ESTIMATE OF QUANTITIES

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NYQUAN.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 14 OF 92 DWG NO. NYQ-2

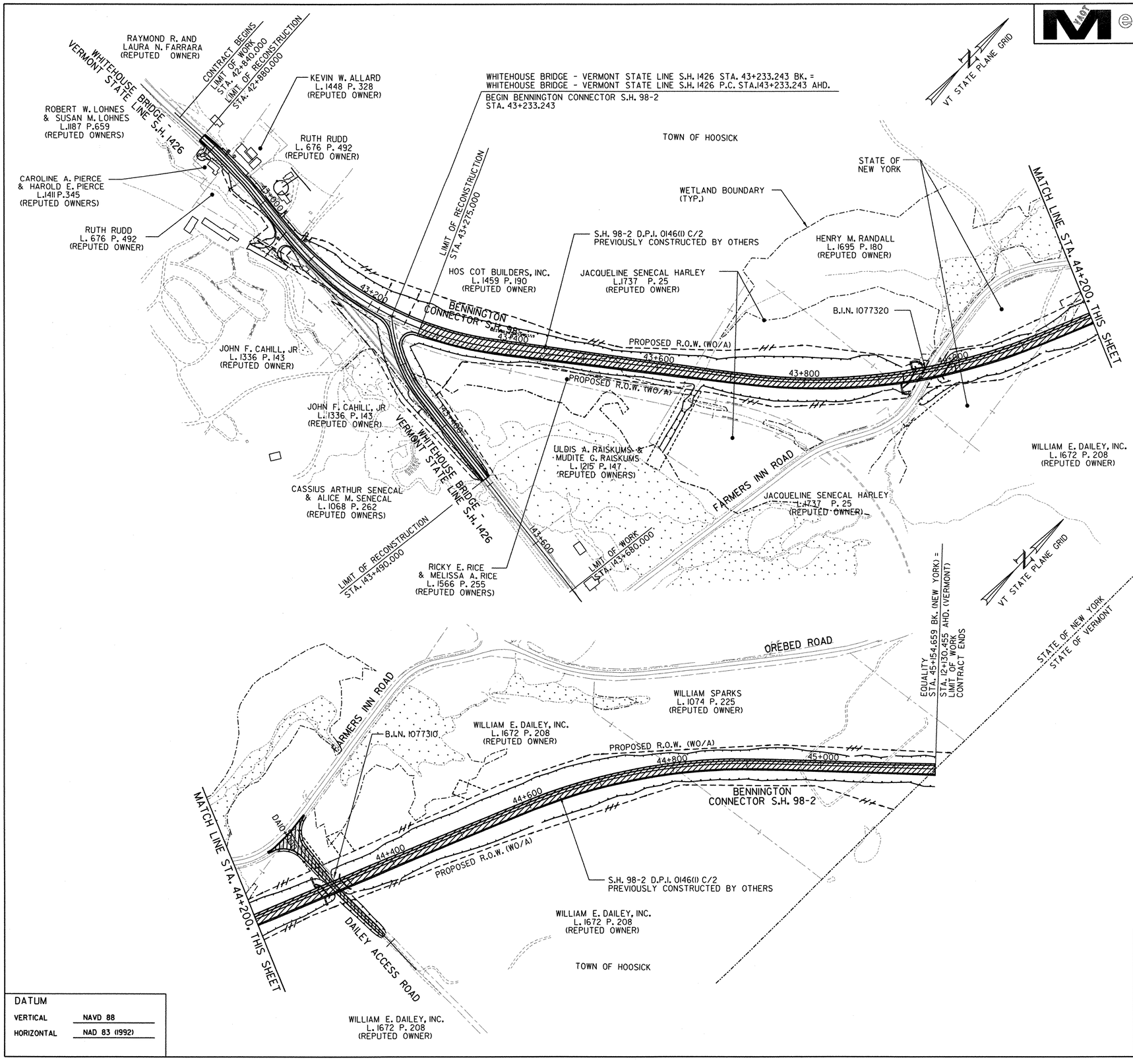
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	15	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY



DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

2500 SCALE PLAN

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. 2500PLN.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 15 OF 92 DWG NO. GPL-1

DESIGNED BY D. EMERICH — CHECKED BY D. GOZALKOWSKI — DRAFTED BY C. KAHLBAUGH — CHECKED BY T. BURTNICK — DATE 2/04

ESTIMATED BY D. EMERICH — CHECKED BY D. GOZALKOWSKI — DESIGNED BY D. EMERICH — IN CHARGE OF T. KARIS

FILE NAME = u:\5116\nydot\contract1\2500pln.dgn
DATE/TIME = 2/23/2004
USER = 2225

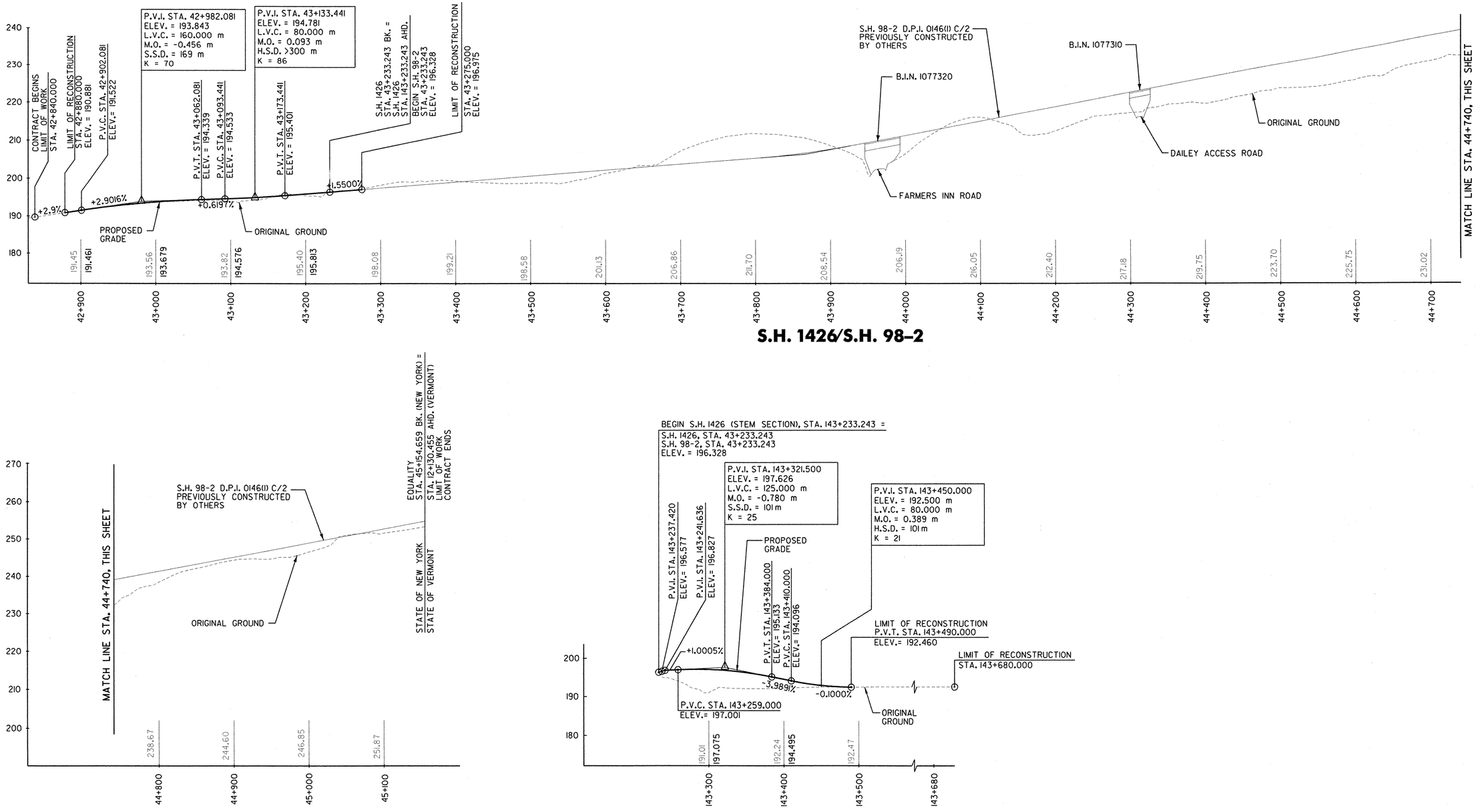
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	16	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

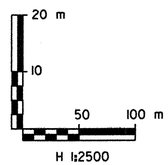
RENSSELAER COUNTY



S.H. 1426/S.H. 98-2

S.H. 1426/S.H. 98-2

S.H. 1426 (STEM SECTION)



2500 SCALE PROFILES

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. 2500PRFI.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/I

PROJ. NO. P.I.N. 1306.60

SHEET 16 OF 92 DWG NO. GPR-1

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

DESIGNED BY T. KARIS CHECKED BY D. EMERICH ESTIMATED BY D. GOZALKOWSKI CHECKED BY D. EMERICH DRAFTED BY D. GOZALKOWSKI CHECKED BY C. KAHLBAUGH CHECKED BY T. BURTNICK DATE 2/04

IN CHARGE OF T. KARIS

FILE NAME = \\p1516\nysdot\contract1\2500prfl.dgn
DATE/TIME = 2/23/2004
USER = 2225

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	17	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

TABLE OF MAINTENANCE JURISDICTION

PART NO.	HIGHWAY	LIMITS	FEATURES TO BE MAINTAINED	℄ km	LANE km	AGENCY	AUTHORITY FOR MAINTENANCE
	STATE HIGHWAYS						
1	S.H. 1426	42+840 TO 43+233.243	PAVEMENT, SHOULDERS, CURBS, GUIDE RAIL, FLASHING SIGNAL, DRAINAGE SYSTEMS, LANDSCAPING AND SIGNS	0.39	1.20	STATE OF NEW YORK	SECTION 12 HIGHWAY LAW
2	S.H. 1426	143+233.243 TO 143+680	PAVEMENT, SHOULDERS, CURBS, GUIDE RAIL, FLASHING SIGNAL, DRAINAGE SYSTEMS, LANDSCAPING AND SIGNS	0.37	0.74	STATE OF NEW YORK	SECTION 12 HIGHWAY LAW
3	S.H. 98-2	43+233.243 TO 45+154.659	PAVEMENT, SHOULDERS, CURBS, GUIDE RAIL, FLASHING SIGNAL, DRAINAGE SYSTEMS, LANDSCAPING AND SIGNS	1.92	6.48	STATE OF NEW YORK	SECTION 12 HIGHWAY LAW
	LOCAL ROADS						
4	FARMERS INN ROAD	F0+000 TO F0+070	PAVEMENT, SHOULDERS, DRAINAGE SYSTEMS, AND SIGNS	0.07	0.14	TOWN OF HOOSICK	SECTION 10 SUBDIVISION 25 HIGHWAY LAW
5	DAILEY ACCESS ROAD	DA10+003 TO DA10+250	PAVEMENT, SHOULDERS, DRAINAGE SYSTEMS, AND SIGNS	0.25	0.50	PRIVATE DRIVE	-
	BRIDGES						
6	S.H. 98-2 OVER FARMERS INN ROAD	43+947 TO 43+994	ENTIRE STRUCTURE (B.I.N. 1077320)	0.05	0.15	STATE OF NEW YORK	SECTION 10 SUBDIVISION 25 HIGHWAY LAW
7	S.H. 98-2 OVER DAILEY ACCESS ROAD	44+300 TO 44+328	ENTIRE STRUCTURE (B.I.N. 1077310)	0.03	0.09	STATE OF NEW YORK	SECTION 10 SUBDIVISION 25 HIGHWAY LAW
	ROADWAYS ABANDONED AND REMOVED						
8	EXISTING S.H. 1426	-	REMOVE PAVEMENT AND GRADE	-	-	-	SECTION 69 HIGHWAY LAW
	SNOW REMOVAL						
9	S.H. 1426	42+840 TO 43+233.243	PAVEMENT ON PART 1	0.39	1.20	STATE OF NEW YORK	SECTION 12 HIGHWAY LAW
10	S.H. 1426	143+233.243 TO 143+680	PAVEMENT ON PART 2	0.37	0.74	STATE OF NEW YORK	SECTION 12 HIGHWAY LAW
11	S.H. 98-2	43+233.243 TO 45+154.659	PAVEMENT ON PARTS 3, 6, AND 7	1.92	6.48	STATE OF NEW YORK	SECTION 12 HIGHWAY LAW
12	FARMERS INN ROAD	F0+000 TO F0+070	PAVEMENT ON PART 4	0.07	0.14	TOWN OF HOOSICK	SECTION 140 HIGHWAY LAW
13	DAILEY ACCESS ROAD	DA10+003 TO DA10+250	PAVEMENT ON PART 5	0.25	0.50	PRIVATE DRIVE	-

MAINTENANCE JURISDICTION NOTES:

1. PART NO. REFERS TO THE CORRESPONDING CIRCLED NUMBERS ON PLAN, DWG. MJ-2.

2. ALL EXISTING SANITARY SEWERS AND OTHER SEWERS NOT DEEMED TO BE PART OF THE PROJECT BY THE COMMISSIONER; WATERMAINS, HYDRANTS AND OTHER MUNICIPALLY OR PRIVATELY OWNED FACILITIES WITHIN THE LIMITS OF THE HIGHWAY R.O.W. WHICH REMAIN IN SERVICE UNCHANGED; AND ALL SUCH FACILITIES RELOCATED OR PROTECTED AS A PART OF THE WORK PERFORMED UNDER THIS PROJECT, WHETHER CROSSING, LOCATED WITHIN, OR ADJACENT TO THE R.O.W., SHALL BE MAINTAINED AS THE CASE MAY BE BY THE MUNICIPALITY OR BY THE AGENCY OR UNIT OWNING OR HAVING CONTROL AND JURISDICTION THEREOF AT NO COST OR EXPENSE TO THE STATE.

3. THE PORTION OF A DRIVEWAY OR PRIVATE ROAD, CONSTRUCTED OR ADJUSTED UNDER THE PROJECT BETWEEN THE EDGE OF PAVEMENT AND THE OUTSIDE EDGE OF SHOULDER, OR CURB LINE, SHALL BE MAINTAINED BY THE STATE. THE REMAINING PORTION OF THE ADJUSTED DRIVEWAY OR PRIVATE ROAD BEYOND THE OUTSIDE EDGE OF SHOULDER, OR CURB LINE, SHALL BE MAINTAINED BY THE OWNER(S) UNDER SECTION 54-A OF THE HIGHWAY LAW.

MAINTENANCE JURISDICTION

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NYMJ-1.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 17 OF 92 DWG NO. MJ-1

CHECKED BY D. GOZALKOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY T. BURTNICK DATE 2/04
DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH
IN CHARGE OF T. KARIS
FILE NAME = u:\5116\nydot\contract1\nymj1.dgn
DATE/TIME = 2/23/2004
USER = 2225

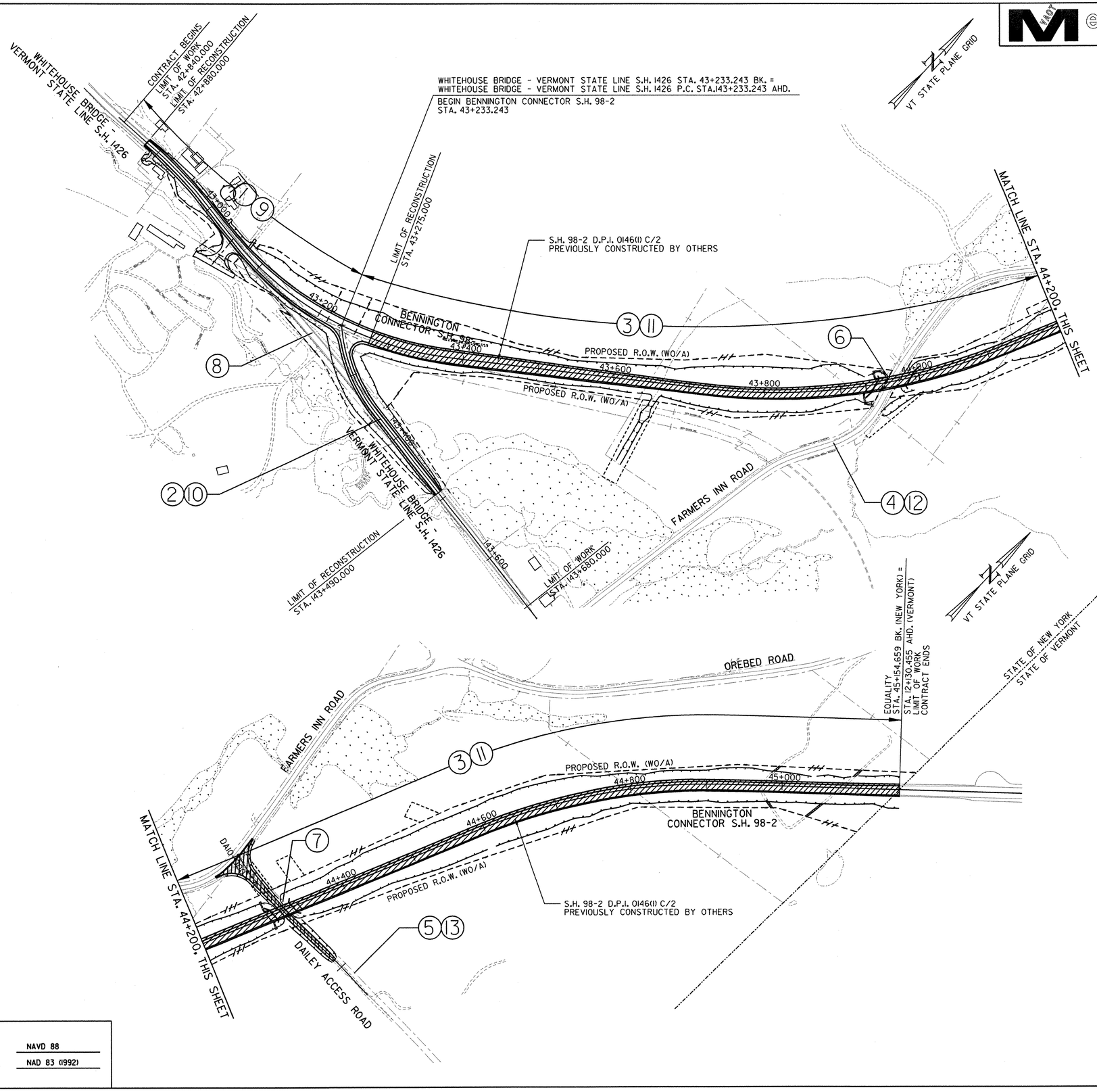
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	18	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY



NOTE:
SEE DWG. MJ-1 FOR MAINTENANCE JURISDICTION TABLE.

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

MAINTENANCE JURISDICTION

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. NYMJ-2.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 18 OF 92 DWG NO. MJ-2

FILE NAME = A:\5161\NYSDOT\CONTRACT1\NYMJ-2.DGN
DATE/TIME = 2/23/2004
USER = 2225

IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY C. KAHLBAUGH DRAFTED BY D. GOZALKOWSKI CHECKED BY T. BURTNICK DATE 2/04

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	19	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

I. GENERAL MAINTENANCE AND PROTECTION OF TRAFFIC

1. MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 619 - MAINTENANCE AND PROTECTION OF TRAFFIC - OF THE NYSDOT STANDARD SPECIFICATIONS, THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (NYSMUTCD) AND ANY PROVISIONS CONTAINED IN THE PLANS AND/OR BID DOCUMENTS OF THIS CONTRACT. MAINTENANCE AND PROTECTION OF TRAFFIC SHALL MEET THE REQUIREMENTS OF ITEM 619 AND AS DIRECTED BY THE RESIDENT ENGINEER.

2. PRIOR TO THE START OF WORK, THE CONTRACTOR MUST SUBMIT ANY PROPOSED CHANGES TO THE TRAFFIC CONTROL PLAN TO THE RESIDENT ENGINEER FOR APPROVAL. ANY CHANGE WHICH ALTERS THE BASIC CONCEPT OF THE PLAN MUST BE APPROVED BY THE THE NYSDOT REGIONAL DIRECTOR OR HIS DESIGNEE.

3. THE MAINTENANCE AND PROTECTION OF TRAFFIC PLANS AND DETAILS ARE NOT INTENDED TO BE ALL INCLUSIVE, BUT RATHER SERVE AS A GUIDE FOR THE SAFE AND EFFICIENT SEQUENCE OF CONSTRUCTION OPERATIONS. ANY INCIDENTAL ADDITIONS OR REVISIONS TO THIS TRAFFIC CONTROL PLAN AS DIRECTED BY THE RESIDENT ENGINEER SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01M - BASIC MAINTENANCE AND PROTECTION OF TRAFFIC, OR THE APPROPRIATE PAY ITEM(S) AS APPLICABLE.

4. THE TRAFFIC MAINTENANCE SCHEMES SHOWN IN SECTION 300 OF THE NYSMUTCD DESCRIBE THE MINIMAL METHODS AND CONTROL DEVICES NECESSARY. THE RESIDENT ENGINEER MAY ORDER ADDITIONAL DEVICES AND/OR METHODS TO MEET FIELD CONDITIONS. NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL DEVICES ORDERED.

5. THE CORRECT SEQUENCE AND SPACING OF SIGNS, EITHER PERMANENT OR TEMPORARY, MUST BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH THE NYSMUTCD UNLESS SHOWN OTHERWISE ON THE PLANS. ALL SIGNS, INCLUDING GUIDE SIGNS, SHALL INDICATE ACTUAL CONDITIONS AT ALL TIMES AND SHALL BE COVERED, MOVED, REMOVED, OR CHANGED UNDER ITEM 619.01 M.

6. ALTERNATE ONE-WAY TRAFFIC MAY BE MAINTAINED DURING WORKING HOURS. HOWEVER, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TWO-UNOBSTRUCTED 3.3 m LANES FOR TWO-WAY TRAFFIC DURING NON-WORKING HOURS. FLAGGERS WILL BE REQUIRED TO USE RADIO OR SIMILAR CONTACT WHEN THEY ARE MAINTAINING ONE-WAY TRAFFIC WHEN ONE FLAGGER IS NOT VISIBLE TO THE OTHER OR IF IN THE OPINION OF THE RESIDENT ENGINEER THIS COMMUNICATION IS NECESSARY. THE COST OF ANY RADIO OR FIELD TELEPHONES USED SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01M BASIC MAINTENANCE AND PROTECTION OF TRAFFIC.

7. IF THE RESIDENT ENGINEER NOTIFIES THE CONTRACTOR OR THE CONTRACTOR'S SUPERINTENDENT OF ANY HAZARDOUS CONSTRUCTION PRACTICES, ALL OPERATIONS IN THAT AREA SHALL BE DISCONTINUED AND IMMEDIATE REMEDIAL ACTION SHALL BE TAKEN TO THE SATISFACTION OF THE RESIDENT ENGINEER BEFORE WORK IS RESUMED.

8. THE CONTRACTOR SHOULD NOTE THAT BURIED UTILITIES EXIST WITHIN THE PROJECT LIMITS AND MAY BE ENCOUNTERED DURING CONSTRUCTION. EXTREME CARE SHOULD BE EXERCISED TO AVOID DAMAGE TO THESE FACILITIES. ANY DAMAGE SHALL BE IMMEDIATELY REPORTED TO THE RESIDENT ENGINEER AND TO THE OWNER OF THE FACILITY. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPAIRS.

9. SAFE AND ADEQUATE INGRESS AND EGRESS TO AND FROM INTERSECTING HIGHWAYS, HOMES AND COMMERCIAL ESTABLISHMENTS SHALL BE MAINTAINED AT ALL TIMES TO THE SATISFACTION OF THE RESIDENT ENGINEER. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01M - BASIC MAINTENANCE AND PROTECTION OF TRAFFIC.

10. THE CONTRACTOR SHALL PROVIDE REVOLVING, FLASHING AMBER LIGHTS ON ALL CONSTRUCTION EQUIPMENT AND SUPERVISORY VEHICLES. COST TO BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 619.01 M.

11. THE CONTRACTOR SHALL BE REQUIRED TO ESTABLISH AN OFF-SITE DETOUR ROUTE AS SHOWN ON THE PLANS. THIS DETOUR SHALL BE EFFECTIVE THROUGH THE CONSTRUCTION OF PHASE 2 AND 3 (SEE DWG'S. CSP-3 THRU CSP-6). FOR DETAILS ON THE DETOUR SIGN TEXT DATA, SEE DWG'S, MPT-4 THRU MPT-6. THE MAXIMUM DURATION OF THIS DETOUR SHALL BE 2 WEEKS (14 CONSECUTIVE DAYS). THE LOCATION OF DETOUR SIGNS SHALL BE APPROVED BY THE RESIDENT ENGINEER PRIOR TO PLACEMENT.

12. PRIOR TO ANY REDUCTION IN EXISTING LANE WIDTH(S) THE CONTRACTOR SHALL PROVIDE THE RESIDENT ENGINEER TWENTY ONE (21) DAYS NOTICE SO HE/SHE MAY INFORM THE NYSDOT REGIONAL PERMIT ENGINEER OF THE WIDTH REDUCTIONS IN A TIMELY MANNER.

II. MAINTENANCE AND PROTECTION OF PEDESTRIANS AND BICYCLISTS

1. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT PEDESTRIAN AND BICYCLE TRAFFIC IS TO BE MAINTAINED ON S.H. 1426 THROUGH OR AROUND THE PROJECT FOR THE DURATION OF CONSTRUCTION IN ACCORDANCE WITH SECTION 619 OF THE NYSDOT STANDARD SPECIFICATIONS. MATERIAL, EQUIPMENT, OR OTHER SUCH BARRIERS SHALL NOT BE PLACED OR PARKED SO AS TO OBSTRUCT PEDESTRIAN AND OR BICYCLE TRAFFIC OR PRESENT A SAFETY HAZARD TO THE NON-MOTORIZED PUBLIC.

2. WHERE PEDESTRIAN TRAFFIC MUST BE RELOCATED OR REROUTED OFF THE EXISTING FACILITY, WALKWAYS SHALL BE CLEARLY MARKED AND HAVE A LOGICAL START AND TERMINUS. ALL WALK SURFACES AND GRADES SHALL BE IN COMPLIANCE WITH THE AMERICAN WITH DISABILITIES ACT OF 1991 AND SUBSEQUENT AMENDMENTS. THE COST OF SUCH WORK SHALL BE INCLUDED IN THE BID PRICE OF TIEM 619.01M - BASIC MAINTENANCE AND PROTECTION OF TRAFFIC.

III. DELINEATION AND CHANNELIZATION

1. SHORT-TERM PAVEMENT MARKINGS SHALL BE APPLIED PER SECTION 619 OF THE NYSDOT STANDARD SPECIFICATIONS AND SHALL CONFORM TO THE PROJECT'S PERMANENT MARKINGS WITH RESPECT TO COLOR AND PATTERN. PAYMENT SHALL BE BASED ON 100 mm LINE WIDTHS. PAYMENT WILL BE MADE UNDER ITEM 15619.1503 M SHORT-TERM PAVEMENT MARKINGS (UNDERLYING COURSE) AND ITEM 15619.1504 M SHORT-TERM PAVEMENT MARKINGS (TOP COURSE).

2. ALL EXISTING PAVEMENT MARKINGS, INCLUDING ANY TEMPORARY MARKINGS APPLIED DURING THE COURSE OF WORK, WHICH CONFLICT WITH THE TRAFFIC CONTROL PLAN IN SUCH A WAY THAT THEY WILL MISLEAD OR MISDIRECT MOTORISTS SHALL BE REMOVED AS DIRECTED BY THE RESIDENT ENGINEER. GRINDING AND BLACK-OUT PAINT SHALL NOT BE ALLOWED ON FINAL PAVEMENT SURFACES OR ON EXISTING PAVEMENT NOT BEING REPLACED. PAYMENT FOR REMOVAL OF EXISTING PAVEMENT STRIPING SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01 M.

III. DELINEATION AND CHANNELIZATION (CONT.)

3. THE CONTRACTOR SHALL DELINEATE AREAS WHERE THERE IS A DROP-OFF NEAR THE EDGE OF THE TRAVELED WAY AND AREAS ON WHICH IT IS UNSAFE TO TRAVEL. THE PROVISIONS FOR DELINEATION SHALL BE IN ACCORDANCE WITH SECTION 619-3.01G OF THE NYSDOT STANDARD SPECIFICATIONS - "CHANNELIZATION, DELINEATION, AND PAVEMENT EDGE DROP-OFF PROTECTION." THIS SECTION INDICATES MINIMUM DELINEATION REQUIREMENTS. ADDITIONAL DELINEATION MAY BE REQUIRED AS DIRECTED BY THE RESIDENT ENGINEER OR AS SHOWN ON THE PLANS. REFLECTORIZED PLASTIC DRUMS SHALL BE USED AT HAZARDOUS LOCATIONS DETERMINED BY THE RESIDENT ENGINEER. DRUMS SHALL REMAIN IN PLACE UNTIL SATISFACTORY PROTECTION IS PROVIDED. DRUMS SHALL BE SPACED AT A DISTANCE NOT TO EXCEED 6 m OR AS DIRECTED BY THE RESIDENT ENGINEER. THE CONTRACTOR MAY ELECT, AT NO ADDITIONAL COST TO THE STATE OF NEW YORK OR THE STATE OF VERMONT, TO INSTALL TEMPORARY CONCRETE BARRIER TO ELIMINATE DROP-OFFS OR HAZARD. PAYMENT FOR ALL DELINEATION AND DROP-OFF PROTECTION SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01M - BASIC MAINTENANCE AND PROTECTION OF TRAFFIC.

IV. CONSTRUCTION SIGNS

1. DIAMOND-SHAPED ADVANCE WARNING SIGNS SHALL BE USED FOR ALL ADVANCE WARNING SIGNS SHOWN IN PART 238 OF THE NYSMUTCD. COLOR REQUIREMENTS SHALL BE BLACK TEXT ON ORANGE BACKGROUND. COLOR REQUIREMENTS FOR GUIDE SIGNS AND REGULATORY SIGNS USED FOR CONSTRUCTION SIGNING SHALL BE AS SPECIFIED IN THE NYSMUTCD FOR EACH SIGN, OR AS NOTED ON THE PLANS.

2. LONGITUDINAL PLACEMENT OF CONSTRUCTION SIGNS SHALL BE AS SHOWN ON THE MAINTENANCE AND PROTECTION OF TRAFFIC PLANS, AND AS DIRECTED BY THE RESIDENT ENGINEER. LATERAL PLACEMENT OF CONSTRUCTION SIGNS SHALL BE SUCH THAT THE LATERAL CLEARANCE FROM THE EDGE OF TRAVEL LANE TO THE EDGE OF SIGN SHALL BE A MINIMUM OF 1.0 m, AS APPROVED BY THE RESIDENT ENGINEER. SIGNS SHALL BE PLACED TO PROVIDE OPTIMUM VISIBILITY. ALL TEMPORARY SIGNS NECESSARY FOR MAINTENANCE AND PROTECTION OF TRAFFIC AS NOTED IN THE PLANS, NYSDOT STANDARD SPECIFICATIONS, NYSMUTCD, OR AS DIRECTED BY THE RESIDENT ENGINEER SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.02 M - CONSTRUCTION SIGNS.

3. MOUNTING HEIGHT REQUIREMENTS FOR ALL LONG-DURATION CONSTRUCTION SIGNS SHALL BE 2.1 m MINIMUM MEASURED FROM THE GROUND SURFACE TO THE BOTTOM OF THE SIGN. SHORT DURATION CONSTRUCTION SIGNS SHALL BE MOUNTED AT A HEIGHT OF 1.5 m MINIMUM OR AS DIRECTED BY THE RESIDENT ENGINEER.

4. IN ORDER TO MAINTAIN EFFECTIVE TRAFFIC CONTROL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE, MAKING SURE ALL SIGNS, CONES, FLASHERS, BARRELS, ETC. ARE IN PLACE AND IN GOOD CONDITION. THE SOLE JUDGE OF THE EFFECTIVENESS OF THE CONTRACTOR'S EFFORTS TOWARDS THE PROTECTION OF TRAFFIC AND PERSONNEL SHALL BE THE RESIDENT ENGINEER.

5. DURING THE CONSTRUCTION SEQUENCING, SOME EXISTING SIGNS MAY REQUIRE LATERAL RELOCATION DUE TO PAVEMENT WIDENINGS. THE COST OF THESE RELOCATIONS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.02 M - CONSTRUCTION SIGNS.

6. STOP/SLOW PADDLES USED AS SIGNALING DEVICES SHALL COMPLY WITH SECTION 293.2 OF THE NYSMUTCD.

7. FIVE (5) SOLAR POWERED VARIABLE MESSAGE DISPLAY UNITS WILL BE USED TO INFORM MOTORISTS OF ROADWAY CLOSURES, NEW ROADWAY OPENINGS, AND OTHER TRAFFIC INFORMATION DEEMED NECESSARY BY THE RESIDENT ENGINEER. THE EXACT USAGE OF THE VARIABLE MESSAGE DISPLAY UNITS, APPROPRIATE LOCATIONS, AND MESSAGE TEXT SHALL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER AND THE REGIONAL TRAFFIC ENGINEER DURING THE COURSE OF CONSTRUCTION. THE DURATION OF USE AT EACH DESIGNATED LOCATION SHALL ALSO BE DETERMINED BY THESE INDIVIDUALS OR THEIR DESIGNEES. THE NYSDOT REGIONAL TRAFFIC ENGINEER AND NYSDOT REGIONAL PUBLIC INFORMATION OFFICER SHALL BE CONTACTED AT LEAST TWO WEEKS PRIOR TO ENACTING THE DETOUR. PAYMENT FOR THESE UNITS SHALL BE MADE UNDER ITEM 01619.2101M SOLAR PORTABLE VARIABLE MESSAGE SIGN - LED ENHANCED DISPLAY.

V. CONSTRUCTION ACTIVITIES

1. NO MATERIAL IS TO BE STORED ON THE SHOULDER OR WITHIN THE CLEAR 9 m ROADSIDE AREA EXCEPT THAT WHICH IS TO BE PLACED THAT DAY WITH THE APPROVAL OF THE RESIDENT ENGINEER.

2. CONSTRUCTION EQUIPMENT SHALL BE REMOVED FROM THE ROADSIDE AREA OF ALL HIGHWAY PAVEMENT DURING THE HOURS THAT THE CONTRACTOR IS NOT WORKING. THIS REQUIREMENT SHALL NOT BE LIMITED TO THE CONTRACT LIMITS.

3. CONTRACTOR VEHICLES NOT IN USE AND PRIVATE VEHICLES OWNED BY CONTRACTOR'S EMPLOYEES SHALL NOT BE PARKED IN THE ROADSIDE AREA, OR ANY OTHER LOCATION CONSIDERED BY THE RESIDENT ENGINEER TO BE A HAZARD. THIS REQUIREMENT IS NOT LIMITED TO THE CONTRACT LIMITS.

4. ALL OPERATIONS INCLUDING PAVING, ROLLING, GRADING, SUPPLYING OF MATERIAL AND THE TRAVEL OF SUPERVISORY PERSONNEL THROUGH THE WORK ZONE, AND THE ENTIRE LENGTH OF THE CONTRACT, WILL ALWAYS BE IN THE DIRECTION OF NORMAL TRAFFIC EXCEPT WHERE SPECIFICALLY ALLOWED OTHERWISE BY THE RESIDENT ENGINEER TO PERFORM A PARTICULAR OPERATION.

5. ALL RECONSTRUCTION AREAS WHERE TRAFFIC IS TO BE MAINTAINED SHALL BE BACKFILLED TO GRADE AS DIRECTED BY THE RESIDENT ENGINEER, OR AS SPECIFIED IN SECTION 619 OF THE STANDARD SPECIFICATIONS, BEFORE THE END OF THE WORKING DAY.

6. EXCAVATIONS MADE FOR THE INSTALLATION OF PIPES SHALL BE BACKFILLED AT THE CLOSE OF EACH DAY UNLESS OTHERWISE APPROVED BY THE RESIDENT ENGINEER.

V. CONSTRUCTION ACTIVITIES (CONT.)

7. ALL UNEVEN TRANSVERSE PAVEMENT SURFACES (I.E. PAVEMENT REBATES, END OF PAVED SURFACES) SHALL BE POSTED WITH "BUMP" SIGNS (W4-1C) TO BE LOCATED AS DIRECTED BY THE RESIDENT ENGINEER. SIGNS SHALL BE PLACED ON TYPE III BARRICADES AND ILLUMINATED WITH A FLASHING BEACON. ALL PAVEMENT TRANSITIONS SHALL HAVE NO STEEPER THAN A 1 ON 4 LONGITUDINAL SLOPE AS MEASURED IN THE DIRECTION OF TRAVEL. WHEN TRAFFIC IS TO BE MAINTAINED ON AN UNPAVED SURFACE, A MINIMUM OF 300 mm OF SUBBASE MATERIAL (ITEM 304.11 M) SHALL FIRST BE PLACED AND COMPACTED. THE CONTRACTOR SHALL USE CALCIUM CHLORIDE (PRICE TO BE INCLUDED IN ITEM 619.01 M) AS A MEANS OF DUST CONTROL. "PAVEMENT ENDS" SIGNS (W4-3C) SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 234 OF THE NYSMUTCD IN ADVANCE OF ALL SUCH AREAS AS DIRECTED BY THE RESIDENT ENGINEER. THE COST FOR PROVIDING ALL "BUMP" AND "PAVEMENT ENDS" SIGNING SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01 M.

8. ALL RECONSTRUCTION AREAS WHERE TRAFFIC IS TO BE MAINTAINED SHALL BE PAVED (EITHER PERMANENTLY OR TEMPORARILY) PRIOR TO SHUT DOWNS FOR WEEKENDS AND HOLIDAYS. TRAFFIC MAY BE MAINTAINED ON GRAVEL SURFACE DURING OFF-WORK HOURS DURING THE WORK-WEEK. WHEN TRAFFIC IS MAINTAINED ON GRAVEL SURFACE, CALCIUM CHLORIDE, AND/OR WATER, SHALL BE APPLIED AS A MEANS OF DUST CONTROL, AS DIRECTED BY THE RESIDENT ENGINEER. (PRICE TO BE INCLUDED IN ITEM 619.01 M).

9. SEE DWGS. CSP-1 THRU CSP-6 FOR CONSTRUCTION SEQUENCING NOTES AND DETAILS.

10. THE CONTRACTOR SHALL SCHEDULE HIS CONSTRUCTION OPERATIONS IN A MANNER SO AS TO MINIMIZE THE LENGTH OF TIME WHEN DROP-OFFS ADJACENT TO THE TRAVE LANE OCCUR.

    THE CONTRACTOR SHALL DELINEATE AREAS WHERE THERE IS A DROP-OFF NEAR THE EDGE OF THE AREAS ON WHICH IT IS UNSAFE TO TRAVEL.

    TABLE 619-1 SHOULD BE MODIFIED TO PROVIDE FOR THE FOLLOWING CHANGES: WHEN THE DROP-OFF IS GREATER THAN 450 mm WITH AN ANTICIPATED EXPOSURE TIME OF LESS THAN 7 DAYS, A CONTINUOUS DELINEATION CONSISTING OF 50 mm OR WIDER BRIGHTLY COLORED TAPE, RIBBON, OR OTHER FLEXIBLE MATERIAL, AS APPROVED BY THE RESIDENT ENGINEER, SHALL BE USED IN ADDITION TO THE INDIVIDUAL DELINEATORS SPACED NOT OVER 15 m APART.

    EXCAVATIONS THAT PRODUCE DROP-OFFS ON BOTH SIDES OF THE TRAVEL WAY AT THE SAME TIME SHALL BE PERMITTED. SHOULDER AREAS SHALL BE PREPARED TO RECEIVE THE SHOULDER PAVEMENT MATERIAL IMMEDIATELY AHEAD OF THE SHOULDER PAVING OPERATIONS TO MINIMIZE THE TIME DROP-OFFS EXIST. "NO SHOULDER" (W4-13C) SIGNS SHALL BE ERECTED NO MORE THAN 400 m APART THROUGHOUT THE PROJECT WHERE A DROP-OFF EXISTS.

11. THE CONTRACTOR SHALL PROVIDE AT LEAST ONE UNOBSTRUCTED 3.0 m WIDE TRAVEL LANE THROUGH ALL WORK ZONES AT ALL TIMES TO ALLOW FOR THE PASSAGE OF EMERGENCY VEHICILES.

MAINTENANCE AND PROTECTION OF TRAFFIC

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. MPT-5.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/I

PROJ. NO. P.I.N. 1306.60

SHEET 19 OF 92 DWG NO. MPT-1

DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY T. BURTNICK DATE 2/04

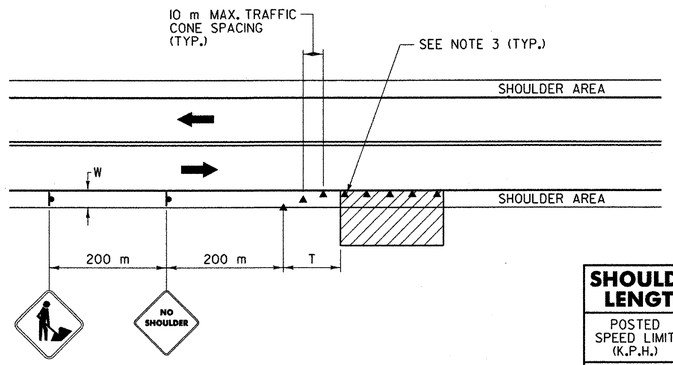
ESTIMATED BY D. EMERICH CHECKED BY D. GOZALKOWSKI

IN CHARGE OF T. KARIS

FILE NAME = u:\516\vgudon\contract1\mpt-5.dgn
DATE/TIME = 2/23/2004
USER = 2225

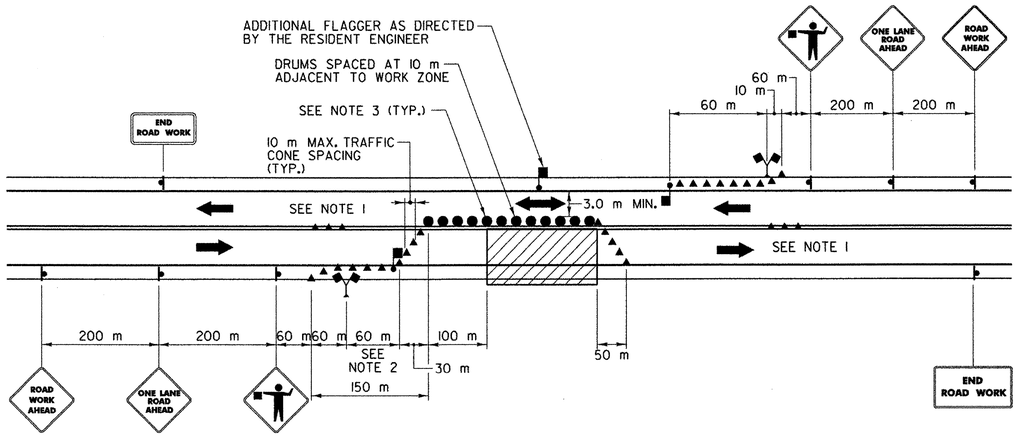
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	0146001	20	92

BENNINGTON CONNECTOR S.H. 98-2
P.I.N. 1306.60
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426
RENSSELAER COUNTY



TYPICAL SHOULDER CONTROL

SHOULDER TAPER LENGTH TABLE	
POSTED SPEED LIMIT (K.P.H.)	T (m)
90	(W x 90)/3



ALTERNATING ONE-WAY TRAFFIC CONTROL

TRAFFIC CONTROL DETAILS

N.T.S.

NOTES:

1. CONES ON CENTERLINE MAY BE ELIMINATED FOR NARROW CROSS SECTIONS, AS DIRECTED BY THE RESIDENT ENGINEER.
2. PLACEMENT OF THE FLAG TREE SHALL BE BEHIND CHANNELIZATION, ON SHOULDER, AT A MINIMUM OF 30 m IN ADVANCE OF THE FLAGGER NOT TO EXCEED 1/2 OF THE DISTANCE BETWEEN FLAGGER SIGN AND FLAGGER.
3. CONES SHALL BE REPLACED BY REFLECTORIZED DRUMS OR OTHER APPROPRIATE DELINEATION DEVICES IN ACCORDANCE WITH SECTION 619-3.01G OF THE NYSDOT STANDARD SPECIFICATIONS WHEN THERE IS A DROP-OFF NEAR THE EDGE OF TRAVEL WAY OR AS DIRECTED BY THE RESIDENT ENGINEER.

ITEM 619.02 M CONSTRUCTION SIGNS

TEXT	MUTCD	COLOR	SIZE
PAVEMENT ENDS	W4-3C	BLACK ON ORANGE	750x750 (0.56 m²)
NO SHOULDER	W4-13C	BLACK ON ORANGE	750x750 (0.56 m²)
ROAD WORK AHEAD	W8-1C	BLACK ON ORANGE	900x900 (0.81 m²)
ONE LANE ROAD AHEAD	W8-6C	BLACK ON ORANGE	900x900 (0.81 m²)
	W8-22C	BLACK ON ORANGE	900x900 (0.81 m²)
END ROAD WORK	G11-2D	BLACK ON ORANGE	1200x600 (0.72 m²)
ROAD CLOSED	R8-1D	BLACK ON WHITE	1800x1200 (2.16 m²)
ROAD CONSTRUCTION NEXT XX MILES	G11-1C	BLACK ON ORANGE	1500x900 (1.35 m²)
BUMP	W4-1D	BLACK ON ORANGE	900x900 (0.81 m²)
LOW SHOULDER	W4-12D	BLACK ON WHITE	900x900 (0.81 m²)
SHARED ROADWAY ✳	W5-6C W5-17X	BLACK ON ORANGE	750x750 600x450 (0.83 m²)
ROAD WORK XX FEET 45 MPH	W8-1C W9-1Y	BLACK ON ORANGE	900x900 600x600 (1.17 m²)
	W1-11C	BLACK ON ORANGE	1200x600 (0.72 m²)
DETOUR	G11-4C	BLACK ON ORANGE	1200x450 (0.54 m²)
ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY	R8-6C	BLACK ON WHITE	1500x750 (1.13 m²)
ALL TRAFFIC	R13-14C (MOD.)	BLACK ON WHITE	900x1200 (1.08 m²)
STATE LAW FINES DOUBLED FOR SPEEDING IN WORK ZONES	R2-13C	BLACK ON WHITE	600x900 (0.54 m²)

LEGEND

- WORK ZONE
- TRAFFIC FLOW
- CONSTRUCTION SIGN (ITEM 619.02 M)
- REFLECTORIZED PLASTIC DRUM
- TRAFFIC CONE
- FLAGGER
- FLAG TREE

*DETOUR NOT USED

✳ FOR USE ON EXISTING S.H. 1426 AS DIRECTED BY THE RESIDENT ENGINEER

ALL DIMENSIONS IN MILLIMETERS UNLESS SHOWN OTHERWISE

MAINTENANCE AND PROTECTION OF TRAFFIC

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. MPT-1.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/I

PROJ. NO. P.I.N. 1306.60

SHEET 20 OF 92 DWG NO. MPT-2

IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY D. GOZALKOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY I. BURTNICK DATE 2/04

FILE NAME = u:\5116\nysdot\contr-acts\mpt-1.dgn
DATE/TIME = 2/23/2004
USER = 2225

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	0146001	21	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

ITEM 619.02 M CONSTRUCTION SIGNS

LOCATION	TEXT	MUTCD	COLOR	SIZE
1,52	DETOUR 1500 FT	W8-18C	BLACK ON ORANGE	900x900 (0.81 m²)
2	NYS ROUTE 7 CLOSED FOLLOW DETOUR TO BENNINGTON BENNINGTON AIRPORT	GII-IC (MOD.)	BLACK ON ORANGE	1200x2250 (2.70 m²)
3	PEDESTRIANS BICYCLES AND HORSES PROHIBITED	R5-26C	BLACK ON WHITE	600x600
	500 FEET AHEAD USE BAYER ROAD	GII-IC (MOD.)	BLACK ON ORANGE	1800x750 (1.71 m²)
4,7,9,28, 46,54	END DETOUR	GII-9C	BLACK ON ORANGE	750x600 (0.45 m²)
5	DETOUR ↑	GII-7C	BLACK ON ORANGE	750x600 (0.45 m²)
6	DETOUR →	GII-8C	BLACK ON ORANGE	750x600 (0.45 m²)
8,10	DETOUR ←	GII-6C	BLACK ON ORANGE	750x600 (0.45 m²)
11	ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY	R8-6C	BLACK ON WHITE	1500x750 (1.13 m²)
12	BENNINGTON ↑ BENNINGTON AIRPORT ↑	GI-2C (MOD.)	BLACK ON ORANGE	2100x750 (1.58 m²)
14	DETOUR	MI4-25X	BLACK ON ORANGE	600x300
	TO 7	MI3-2IX	BLACK ON WHITE	600x300
		M2-IX	BLACK ON WHITE	600x600
	VERMONT 9	M3-IX (MOD.)	GREEN ON WHITE	600x600
	↖	MI3-44X	BLACK ON WHITE	525x375 (1.28 m²)
15,18,19	DETOUR	MI4-25X	BLACK ON ORANGE	600x300
	TO 7	MI3-2IX	BLACK ON WHITE	600x300
		M2-IX	BLACK ON WHITE	600x600
	VERMONT 9	M3-IX (MOD.)	GREEN ON WHITE	600x600
	↑	MI3-43X	BLACK ON WHITE	525x375 (1.28 m²)
22	OLD BENNINGTON ↑ BENNINGTON AIRPORT ↑	GI-2C (MOD.)	BLACK ON ORANGE	2100x750 (1.58 m²)
23	DETOUR 1/2 MILE	W8-18C	BLACK ON ORANGE	900x900 (0.81 m²)

ITEM 619.02 M CONSTRUCTION SIGNS

LOCATION	TEXT	MUTCD	COLOR	SIZE
24	NYS ROUTE 7 CLOSED FOLLOW DETOUR TO NEW YORK	GII-IC (MOD.)	BLACK ON ORANGE	3150x1800 (5.67 m²)
25	DETOUR TO NEW YORK NEXT RIGHT	GII-IC (MOD.)	BLACK ON ORANGE	2850x1350 (3.85 m²)
17,20,21,26, 29,32,41, 45, 49,55,58,60, 61,62,63	DETOUR	MI4-25X	BLACK ON ORANGE	600x300
	TO	MI3-2IX	BLACK ON WHITE	600x300
	NEW YORK 7	MI4-26X (MOD.)	BLACK ON WHITE	600x300
	↑	M3-IX	BLACK ON WHITE	600x600
		MI3-43X	BLACK ON WHITE	525x375 (1.10 m²)
27,30,31	DETOUR	MI4-25X	BLACK ON ORANGE	600x300
	TO	MI3-2IX	GREEN ON WHITE	600x300
	VERMONT 9	M3-IX (MOD.)	GREEN ON WHITE	600x600
	↑	MI3-43X (MOD.)	GREEN ON WHITE	525x375 (0.92 m²)
33	DETOUR TO OLD BENNINGTON BENNINGTON AIRPORT NEXT RIGHT	GII-IC (MOD.)	BLACK ON ORANGE	2850x1500 (4.28 m²)
34,43,59	DETOUR	MI4-25X	BLACK ON ORANGE	600x300
	TO	MI3-2IX	BLACK ON WHITE	600x300
	NEW YORK 7	MI4-26X (MOD.)	BLACK ON WHITE	600x300
		M3-IX	BLACK ON WHITE	600x600
	←	MI3-4IX	BLACK ON WHITE	525x375 (1.10 m²)
35	DETOUR	MI4-25X	BLACK ON ORANGE	600x300
	TO	MI3-2IX (MOD.)	GREEN ON WHITE	600x300
	EAST	MI3-14X (MOD.)	GREEN ON WHITE	600x300
	VERMONT 9	M3-IX (MOD.)	GREEN ON WHITE	600X600
	↑	MI3-43X (MOD.)	GREEN ON WHITE	525X375 (1.10 m²)
36	DETOUR	MI4-25X	BLACK ON ORANGE	600x300
	TO	MI3-2IX (MOD.)	GREEN ON WHITE	600x300
	WEST	MI3-14X (MOD.)	GREEN ON WHITE	600x300
	VERMONT 9	M3-IX (MOD.)	GREEN ON WHITE	600X600
	↑	MI3-43X (MOD.)	GREEN ON WHITE	525X375 (1.10 m²)
37	DETOUR DETOUR	MI4-25X MI4-25X	BLACK ON ORANGE BLACK ON ORANGE	600x300 600X300
	TO TO	MI3-2IX (MOD.) MI3-2IX (MOD.)	GREEN ON WHITE GREEN ON WHITE	600x300 600X300
	EAST WEST	MI3-13X (MOD.) MI3-14X (MOD.)	GREEN ON WHITE GREEN ON WHITE	600x300 600X300
	VERMONT 9 VERMONT 9	M3-IX (MOD.) M3-IX (MOD.)	GREEN ON WHITE GREEN ON WHITE	600x600 600X600
	↑ →	MI3-43X (MOD.) MI3-42X (MOD.)	GREEN ON WHITE GREEN ON WHITE	525X375 525X375 (2.20 m²)
38,40	NYS ROUTE 7 ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY	I3-IC	BLACK ON ORANGE	1500x300
		R8-6C	BLACK ON WHITE	1500x750 (1.58 m²)
39	BENNINGTON AIRPORT →	GI-IC	BLACK ON ORANGE	2250x300 (0.68 m²)
47	NYS ROUTE 7 ROAD CLOSED 4.5 MILES AHEAD LOCAL TRAFFIC ONLY	I3-IC	BLACK ON ORANGE	1500X300
		R8-6C	BLACK ON WHITE	1500X750
	DETOUR →	GII-5C	BLACK ON ORANGE	1200X450 (2.12 m²)

ITEM 619.02 M CONSTRUCTION SIGNS

LOCATION	TEXT	MUTCD	COLOR	SIZE
42	DETOUR	MI4-25X	BLACK ON ORANGE	600x300
	TO	MI3-2IX	BLACK ON WHITE	600x300
	NEW YORK 7	MI4-26X (MOD.)	BLACK ON WHITE	600x300
		M3-IX	BLACK ON WHITE	600x600
	↰	MI3-3IX	BLACK ON WHITE	525x375 (1.10 m²)
44,48	OLD BENNINGTON → BENNINGTON AIRPORT →	GI-2C	BLACK ON ORANGE	2250x750 (1.69 m²)
50	DETOUR	MI4-25X	BLACK ON ORANGE	600x300
	TO	MI3-2IX	BLACK ON WHITE	600x300
	NEW YORK 7	MI4-26X (MOD.)	BLACK ON WHITE	600x300
		M3-IX	BLACK ON WHITE	600x600
	→	MI3-42X	BLACK ON WHITE	525x375 (1.10 m²)
51	DETOUR	MI4-25X	BLACK ON ORANGE	600x300
	TO	MI3-2IX	BLACK ON WHITE	600x300
	NEW YORK 7	MI4-26X (MOD.)	BLACK ON WHITE	600x300
		M3-IX	BLACK ON WHITE	600x600
	↱	MI3-32X	BLACK ON WHITE	525x375 (1.10 m²)
53	NYS ROUTE 7 CLOSED 45 MILES AHEAD FOLLOW DETOUR TO NEW YORK	GII-IC (MOD.)	BLACK ON ORANGE	2250x1200 (2.70 m²)
56	DETOUR 1 MILE	W8-18C	BLACK ON ORANGE	900x900 (0.81 m²)
57	NYS ROUTE 7 CLOSED FOLLOW DETOUR TO NEW YORK	GII-IC (MOD.)	BLACK ON ORANGE	2250x900 (2.03 m²)

DETOUR NOT USED

DATUM

VERTICAL NAVD 88

HORIZONTAL NAD 83 (1992)

MAINTENANCE AND PROTECTION OF TRAFFIC

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. 5116MPT.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 21 OF 92 DWG NO. MPT-3

IN CHARGE OF T.KARIS DESIGNED BY D.EMERICH CHECKED BY D.GOZALKOWSKI ESTIMATED BY D.EMERICH CHECKED BY C.KAHLBAUGH DRAFTED BY T.BURTNICK DATE 2/04

FILE NAME = u:\5116\vsdot\contract1\5116mpt.dgn
DATE/TIME = 2/27/2004 2225
USER =

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	22	92

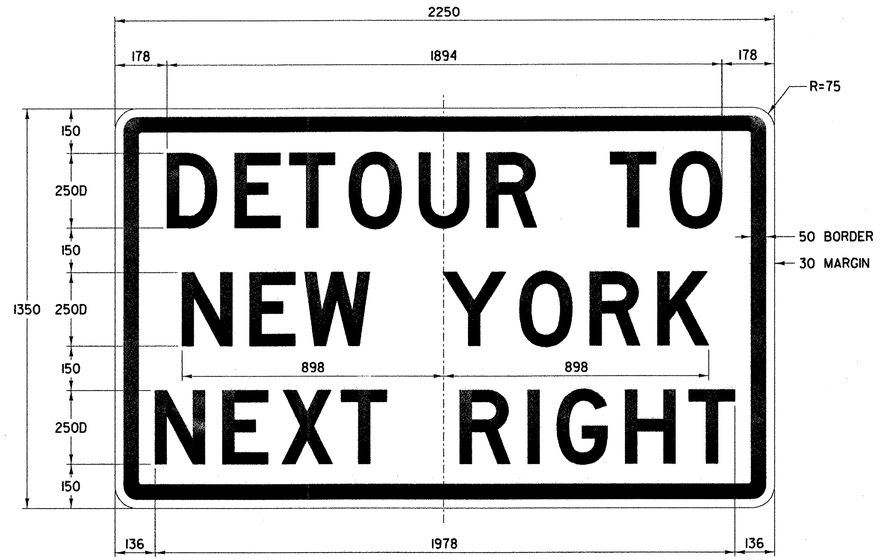
BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

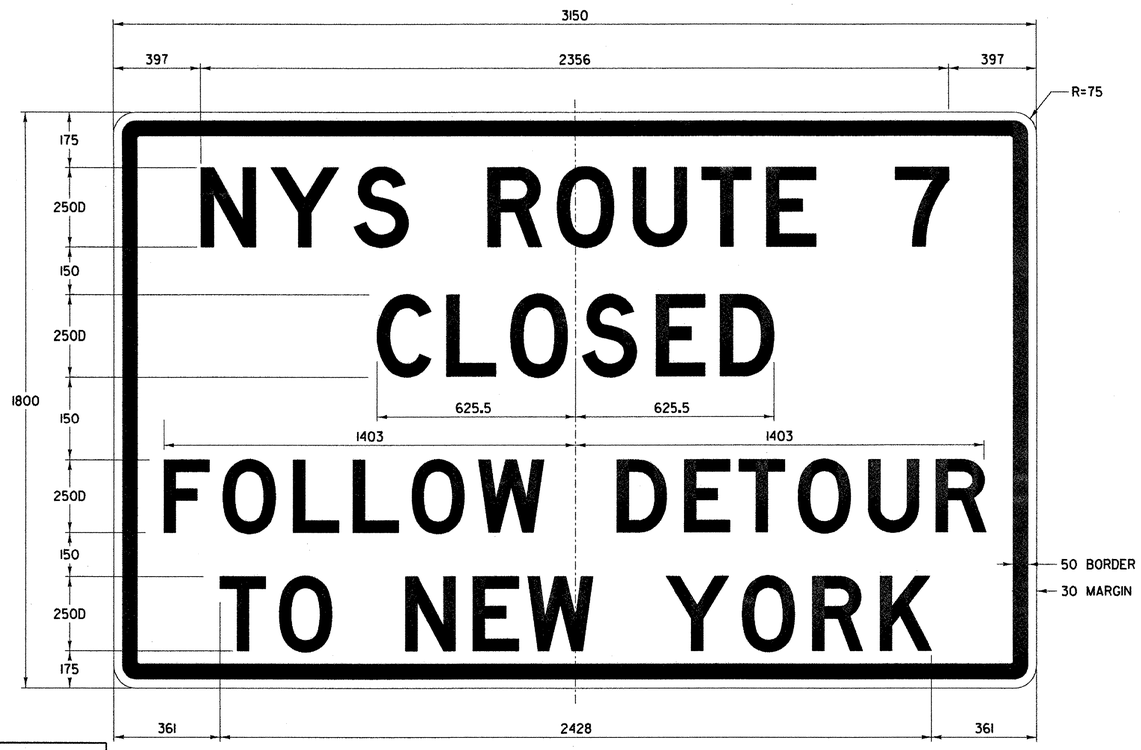
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

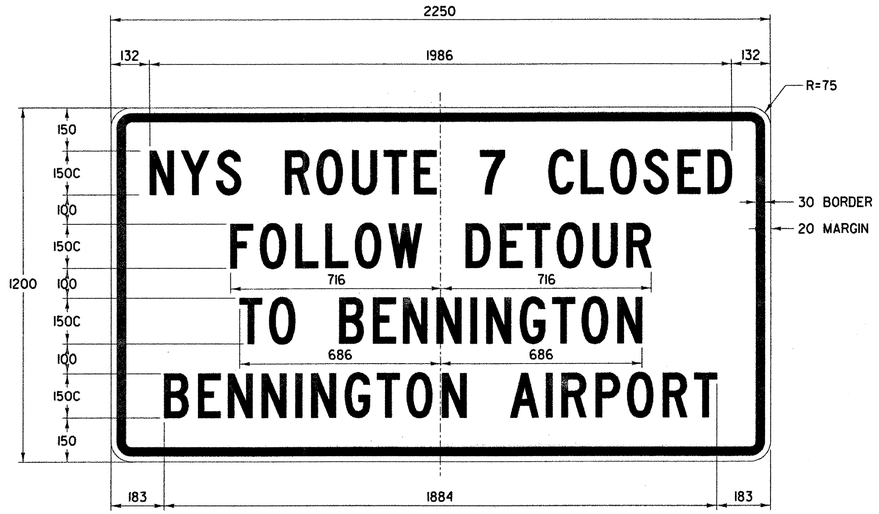
COLOR: BLACK BORDER & TEXT (REFLECTORIZED)
ORANGE BACKGROUND (REFLECTORIZED)



COLOR: BLACK BORDER & TEXT (REFLECTORIZED)
ORANGE BACKGROUND (REFLECTORIZED)



COLOR: BLACK BORDER & TEXT (REFLECTORIZED)
ORANGE BACKGROUND (REFLECTORIZED)



COLOR: BLACK BORDER & TEXT (REFLECTORIZED)
ORANGE BACKGROUND (REFLECTORIZED)

DETOUR NOT USED

NOTE:
ALL DIMENSIONS IN MILLIMETERS
UNLESS OTHERWISE NOTED.

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

MAINTENANCE AND PROTECTION OF TRAFFIC

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. NYTSD4.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/1

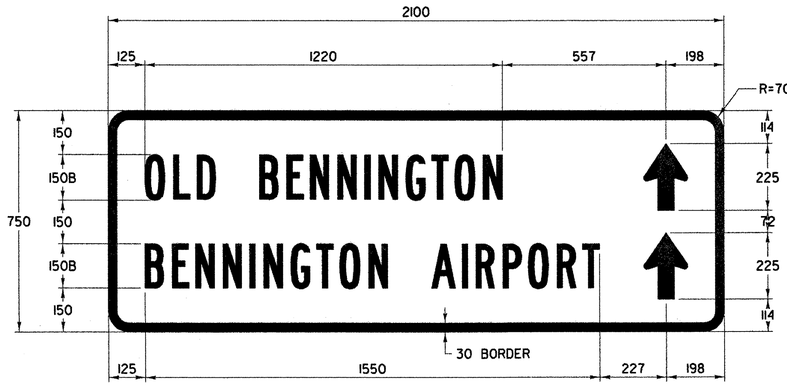
PROJ. NO. P.I.N. 1306.60

SHEET 22 OF 92 DWG NO. MPT-4

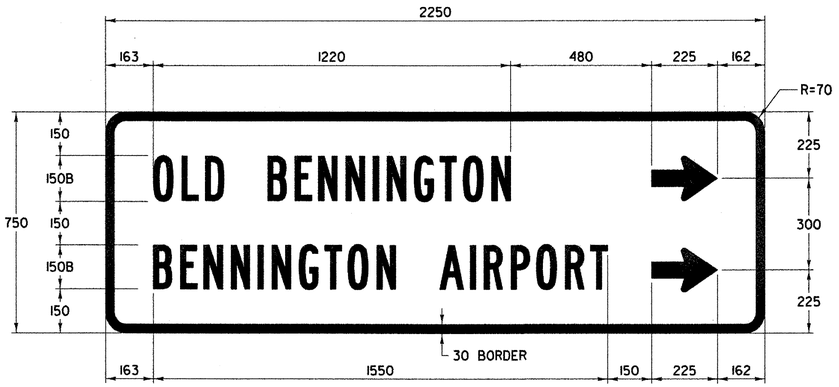
IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY D. GOZALKOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY T. BURTNICK DATE 2/04

FILE NAME = u:\516\vngdot\contract1\vgtsd4.dgn
DATE/TIME = 2/25/2004
USER = 2225

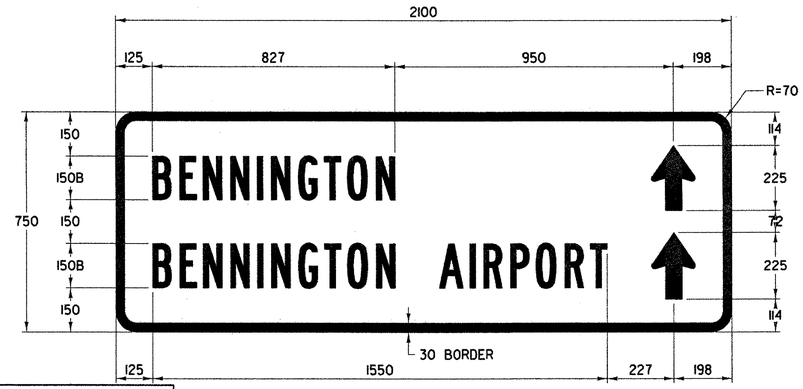
COLOR: BLACK BORDER & TEXT (REFLECTORIZED)
ORANGE BACKGROUND (REFLECTORIZED)



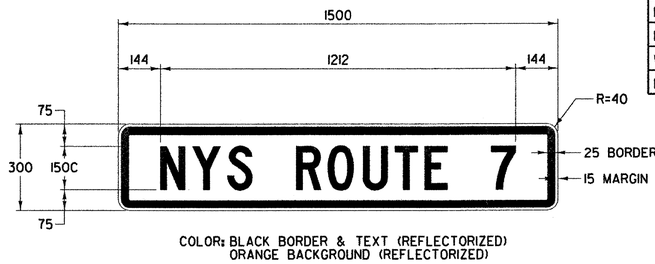
COLOR: BLACK BORDER & TEXT (REFLECTORIZED)
ORANGE BACKGROUND (REFLECTORIZED)



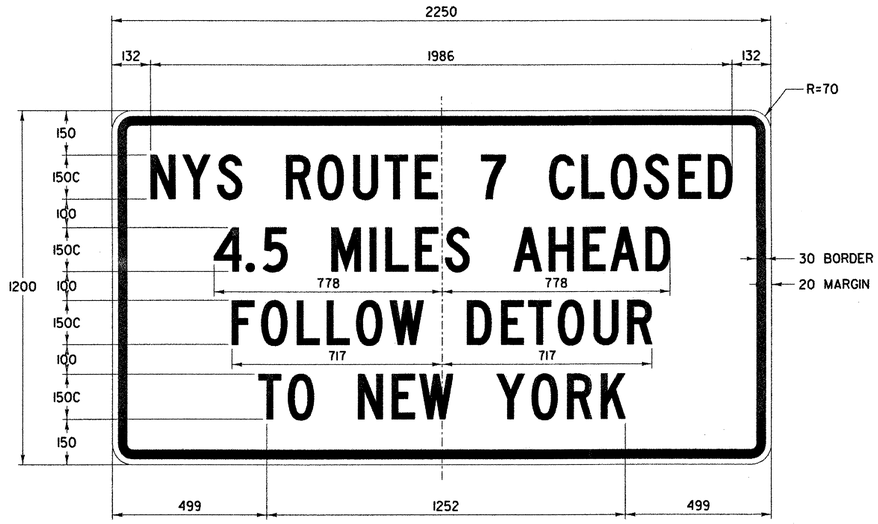
COLOR: BLACK BORDER & TEXT (REFLECTORIZED)
ORANGE BACKGROUND (REFLECTORIZED)



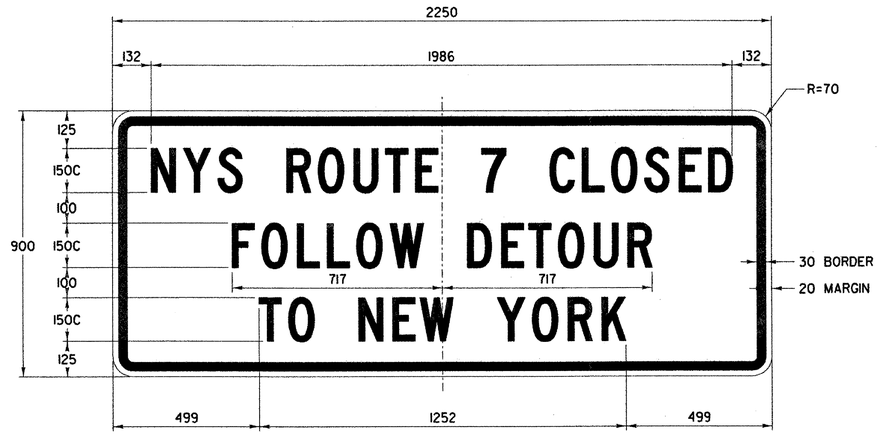
COLOR: BLACK BORDER & TEXT (REFLECTORIZED)
ORANGE BACKGROUND (REFLECTORIZED)



COLOR: BLACK BORDER & TEXT (REFLECTORIZED)
ORANGE BACKGROUND (REFLECTORIZED)



COLOR: BLACK BORDER & TEXT (REFLECTORIZED)
ORANGE BACKGROUND (REFLECTORIZED)



COLOR: BLACK BORDER & TEXT (REFLECTORIZED)
ORANGE BACKGROUND (REFLECTORIZED)

DETOUR NOT USED

NOTE:
ALL DIMENSIONS IN MILLIMETERS
UNLESS OTHERWISE NOTED.

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	23	92

BENNINGTON CONNECTOR S.H. 98-2
P.I.N. 1306.60
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426
RENSSELAER COUNTY

MAINTENANCE AND PROTECTION OF TRAFFIC

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. NYTSD5.DGN
PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1
PROJ. NO. P.I.N. 1306.60
SHEET 23 OF 92 DWG NO. MPT-5

IN CHARGE OF T. KARIS — DESIGNED BY D. EMERICH — CHECKED BY D. EMERICH — ESTIMATED BY D. EMERICH — CHECKED BY D. GOZALKOWSKI — DRAFTED BY C. KAHLBAUGH — CHECKED BY T. BURTNICK — DATE 2/04

FILE NAME = u:\sia\nysdot\contract1\nytsd5.dgn
DATE/TIME = 2/23/2004
USER = 2220

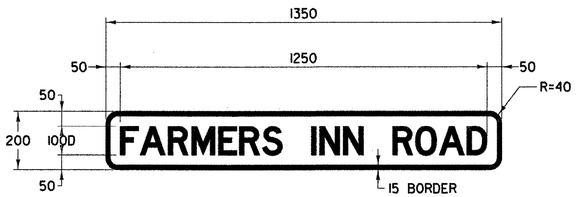
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	24	92

BENNINGTON CONNECTOR S.H. 98-2

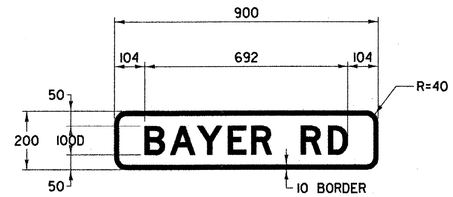
P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

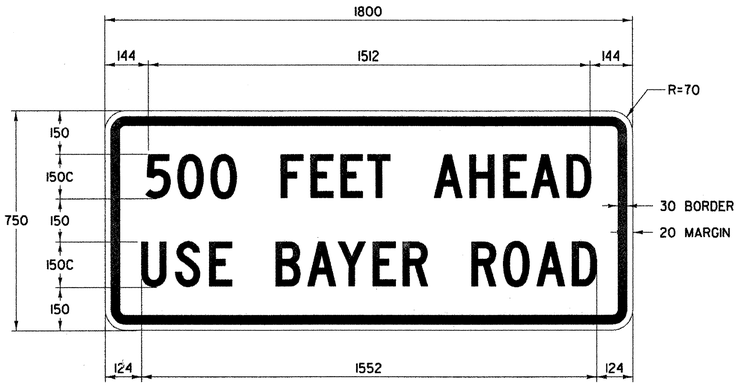
RENSSELAER COUNTY



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)



COLOR: BLACK BORDER & TEXT (REFLECTORIZED)
ORANGE BACKGROUND (REFLECTORIZED)

DETOUR NOT USED

DATUM

VERTICAL NAVD 88

HORIZONTAL NAD 83 (1992)

NOTE:
ALL DIMENSIONS IN MILLIMETERS
UNLESS OTHERWISE NOTED.

MAINTENANCE AND PROTECTION OF TRAFFIC

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NYTSD6.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 24 OF 92 DWG NO. MPT-6

IN CHARGE OF T.KARIS DESIGNED BY D.EMERICH CHECKED BY D.GOZALKOWSKI ESTIMATED BY D.EMERICH CHECKED BY D.GOZALKOWSKI DRAFTED BY C.KAHLBAUGH CHECKED BY I.BURTNICK DATE 2/04

FILE NAME = u:\5116\vngdot\contract1\vgtsd6.dgn
DATE/TIME = 2/27/2004 2225
USER =

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	25	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

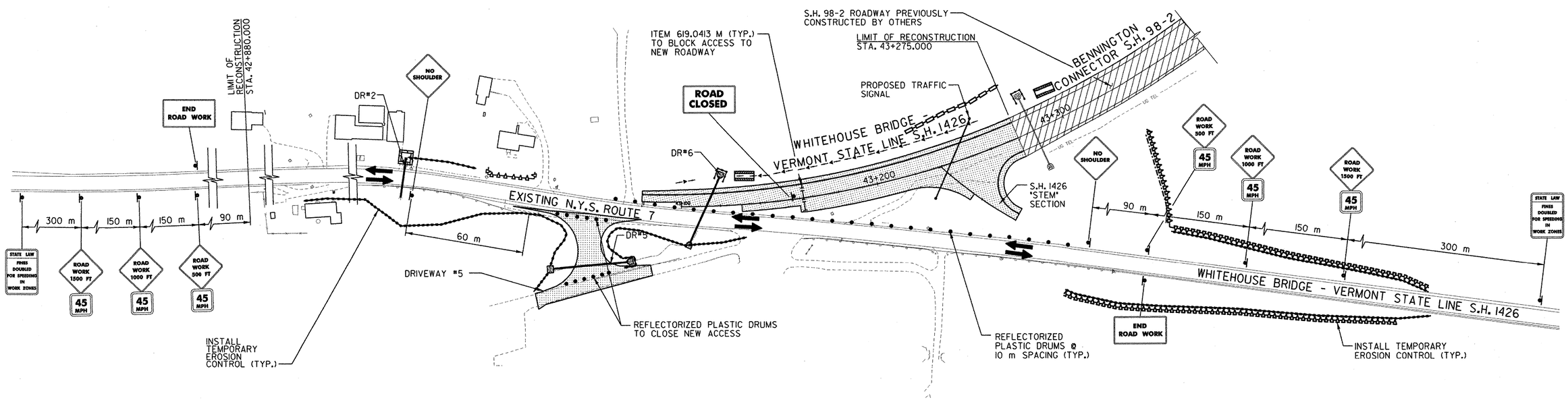
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

CONSTRUCTION SEQUENCING NOTES:

PHASE I

1. INSTALL TEMPORARY SOIL EROSION & SEDIMENT CONTROLS AS SHOWN IN THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.
2. CONSTRUCT DRIVEWAY #5 AND DR#5.
3. INSTALL DR#6 COMPLETE. MAINTAIN TRAFFIC AS NECESSARY USING SHORT-DURATION TRAFFIC CONTROLS.
4. INSTALL DR#2 COMPLETE. MAINTAIN TRAFFIC AS NECESSARY USING SHORT-DURATION TRAFFIC CONTROLS.
5. CONSTRUCT S.H. 1426/S.H. 98-2 BETWEEN EXISTING N.Y.S. ROUTE 7 AND THE PREVIOUSLY CONSTRUCTED SECTION OF S.H. 98-2 AS SHOWN.
6. INSTALL PROPOSED TRAFFIC SIGNAL AT THE NEW S.H. 1426/S.H.98-2 INTERSECTION.
7. INSTALL ALL PROPOSED SIGNING, STRIPING & MISCELLANEOUS DELINEATORS AS SHOWN ON THE PLANS FROM STA. 43+275.000 TO STA. 45+154.659 AS DIRECTED BY THE RESIDENT ENGINEER.
8. ALL CONSTRUCTION SIGNS IN THIS PHASE SHALL BE DISPLAYED ONLY WHEN THERE IS ROADWORK IN PROGRESS. SIGNS SHALL BE COVERED AT ALL OTHER TIMES UNLESS DIRECTED OTHERWISE BY THE RESIDENT ENGINEER.



CONSTRUCTION SEQUENCE PLAN PHASE 1

N.T.S.

REPRESENTS ROADWAY UNDER CONSTRUCTION

REPRESENTS ROADWAY OPEN TO TRAFFIC

REPRESENTS ROADWAY PREVIOUSLY CONSTRUCTED BY OTHERS

DETOUR NOT USED

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

CONSTRUCTION SEQUENCING PLANS

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. MPT-3.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/I

PROJ. NO. P.I.N. 1306.60

SHEET 25 OF 92 DWG NO. CSP-1

DESIGNED BY D.EMERICH CHECKED BY D.GOZALKOWSKI DRAFTED BY C.KAHLBAUGH CHECKED BY T.BURTNICK DATE 2/04

ESTIMATED BY D.EMERICH CHECKED BY D.GOZALKOWSKI

IN CHARGE OF T.KARIS

FILE NAME = u:\5116\roadw\contract1\mpt-3.dgn
DATE/TIME = 2/27/2004
USER = 2225

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	0146001	26	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

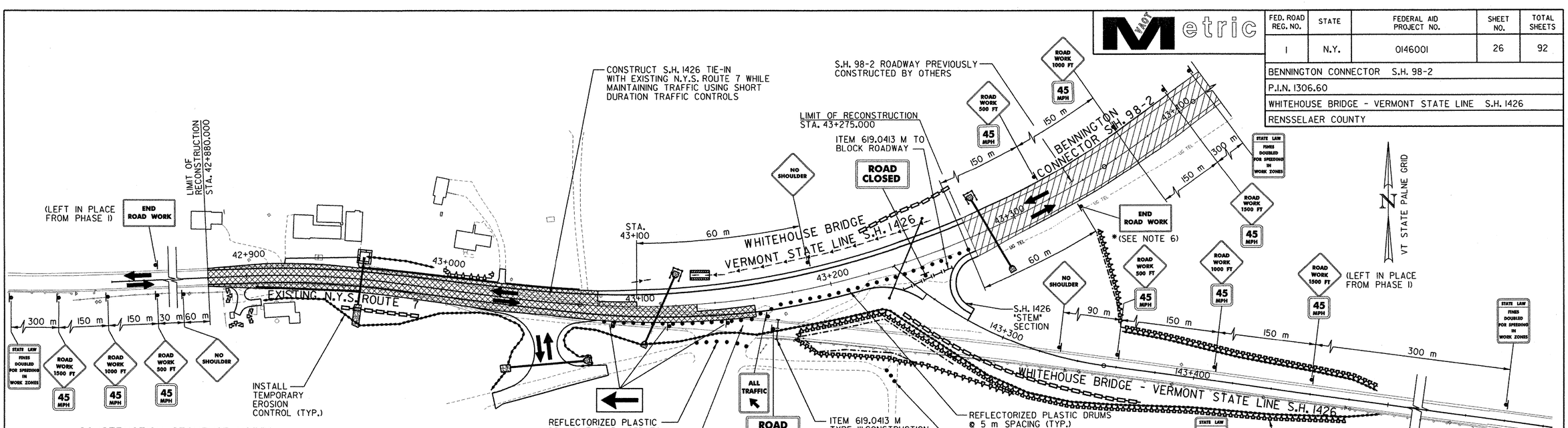
DRAFTED BY D. GOZALKOWSKI — CHECKED BY C. KAHLBAUGH — DATE 2/04

ESTIMATED BY D. EMERICH — CHECKED BY D. GOZALKOWSKI — DATE 2/04

DESIGNED BY D. EMERICH — CHECKED BY T. BURTNICK — DATE 2/04

IN CHARGE OF T. KARIS — DESIGNED BY D. EMERICH — CHECKED BY D. EMERICH — DATE 2/04

FILE NAME = u:\515\projdata\contract1\mpt-4.dgn
DATE/TIME = 2/20/2004
USER = 2225



CONSTRUCTION SEQUENCE NOTES:

PHASE 2

WHEN S.H. 98-2 CONSTRUCTION EAST OF THE PROPOSED S.H. 1426 INTERSECTION IS COMPLETED AND READY TO BE OPENED TO TRAFFIC, INCLUDING ALL WORK IN THE STATE OF VERMONT (BY OTHERS), THE FOLLOWING SEQUENCE OF OPERATIONS MAY BEGIN:

1. INSTALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROLS AS SHOWN IN THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.
2. BEGIN RECONSTRUCTION OF N.Y.S. ROUTE 7 (INCLUDING PERMANENT SIGNING) WHERE S.H. 1426 TIES IN USING SHORT DURATION TRAFFIC CONTROLS. TRAFFIC IS TO BE MAINTAINED ON EXISTING N.Y.S. ROUTE 7 DURING THIS CONSTRUCTION.
3. WHEN SUFFICIENT NEW PAVEMENT IS CONSTRUCTED TO ALLOW FOR THE SMOOTH TIE-IN OF S.H. 1426:
   - ESTABLISH DETOUR ROUTE SIGNING AS DETAILED ON DWG'S. CSP-3 THRU CSP-6
   - OPEN S.H. 1426/S.H. 98-2 TO TRAFFIC.
   - CLOSE EXISTING N.Y.S. ROUTE 7 AS SHOWN ON THE PHASE 2 SEQUENCING PLAN.
4. USING SHORT DURATION TRAFFIC CONTROLS, COMPLETE THE TIE-IN RECONSTRUCTION OF THE S.H. 1426 AT EXISTING N.Y.S. ROUTE 7 WHILE MAINTAINING TRAFFIC ACROSS THE WORK ZONE ONTO S.H. 1426.
5. WITHIN THE CLOSED SECTION OF EXISTING N.Y.S. ROUTE 7, BEGIN S.H. 1426 "STEM" CONSTRUCTION. THIS CONSTRUCTION SHALL BEGIN IMMEDIATELY AFTER S.H. 1426/S.H. 98-2 IS OPENED TO TRAFFIC (SEE SPECIAL NOTE OF THE "PHASE 3 CONSTRUCTION SEQUENCING NOTES").
6. END ROAD WORK SIGNS SHALL BE INSTALLED AS SHOWN ON THE PLANS OR AS DIRECTED BY RESIDENT ENGINEER.

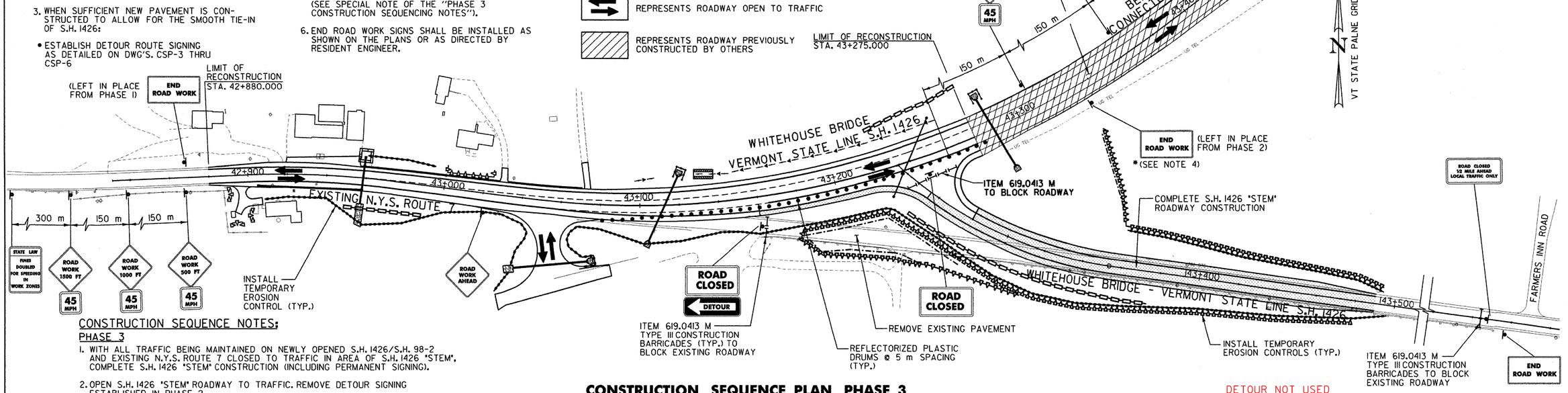
CONSTRUCTION SEQUENCE PLAN PHASE 2

N.T.S.

REPERESENT ROADWAY UNDER CONSTRUCTION USING SHORT DURATION TRAFFIC CONTROLS

REPRESENTS ROADWAY OPEN TO TRAFFIC

REPRESENTS ROADWAY PREVIOUSLY CONSTRUCTED BY OTHERS



CONSTRUCTION SEQUENCE NOTES:

PHASE 3

1. WITH ALL TRAFFIC BEING MAINTAINED ON NEWLY OPENED S.H. 1426/S.H. 98-2 AND EXISTING N.Y.S. ROUTE 7 CLOSED TO TRAFFIC IN AREA OF S.H. 1426 "STEM", COMPLETE S.H. 1426 "STEM" CONSTRUCTION (INCLUDING PERMANENT SIGNING).
2. OPEN S.H. 1426 "STEM" ROADWAY TO TRAFFIC. REMOVE DETOUR SIGNING ESTABLISHED IN PHASE 2.
3. COMPLETE ALL INCIDENTAL CONSTRUCTION OPERATIONS INCLUDING GUIDE RAILING, MISCELLANEOUS FLASHING SIGNAL OPERATIONS AND TESTING, TRAFFIC SIGNS, PAVEMENT STRIPING, SEEDING, LANDSCAPING, ETC.
4. END ROAD WORK SIGNS SHALL BE INSTALLED AS SHOWN ON PLANS OR AS DIRECTED BY RESIDENT ENGINEER.

CONSTRUCTION SEQUENCE PLAN PHASE 3

N.T.S.

REPRESENTS ROADWAY UNDER CONSTRUCTION

REPRESENTS ROADWAY OPEN TO TRAFFIC

REPRESENTS ROADWAY PREVIOUSLY CONSTRUCTED BY OTHERS

••SPECIAL NOTE••

THE CONTRACTOR SHALL SCHEDULE S.H. 1426 "STEM" CONSTRUCTION ACTIVITIES SUCH THAT THE S.H. 1426 "STEM" IS COMPLETED AND OPENED TO TRAFFIC WITHIN 2 WEEKS (14 CONSECUTIVE DAYS) FROM WHEN EXISTING N.Y.S. ROUTE 7 IS CLOSED TO TRAFFIC AND THE DETOUR IS IN OPERATION. THE CONTRACTOR SHALL HAVE ALL DETOUR SIGNING EITHER COVERED OR REMOVED WITHIN 24 HOURS OF THE S.H. 1426 STEM OPENING AND THE DEACTIVATION OF THE SIGNED DETOUR ROUTE.

DETOUR NOT USED

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

CONSTRUCTION SEQUENCING PLANS

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. MPT-4.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/I

PROJ. NO. P.I.N. 1306.60

SHEET 26 OF 92 DWG NO. CSP-2

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	27	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

VT STATE PLANE GRID

SEE DWG. CSP-4

SEE DWG. CSP-5

SEE DWG. CSP-6

STATE OF NEW YORK
STATE OF VERMONT

TOWN OF SHAFTSBURY
TOWN OF BENNINGTON

LAKE PARAN

VILLAGE OF NORTH BENNINGTON

WALLOOMSAC RIVER

VT. ROUTE 279 TO BE CONSTRUCTED BY OTHERS

CONTRACT ENDS
STA. 45+154.659

CONTRACT BEGINS
STA. 42+840.000

BAYER RD

FARMERS LANE ROAD

BENNINGTON BYPASS

BENNINGTON AIRPORT

VERMONT RAILWAY

OLD BENNINGTON

FURNACE BROOK

BARNEY BROOK

TOWN OF BENNINGTON
TOWN OF WOODFORD

BENNINGTON

JEWET BROOK

TOWN OF BENNINGTON
TOWN OF POWNAL

BOSTON AND MAINE

TOWN OF HOOSICK
TOWN OF PETERSBURG

TOWN OF HOOSICK
TOWN OF BENNINGTON

DETOUR TO NEW YORK 7

DETOUR TO VERMONT 7 VERMONT 9

TO NORTH BENNINGTON, MANCHESTER, TROY, N.Y.

TO OLD BENNINGTON & BENN. AIRPORT

NORTH ST.

PLEASANT ST.

SCHOOL

WASHINGTON AVENUE

FRANKLIN LANE

UNION ST.

TO BRATTLEBORO

TO POWNAL

OFF-SITE DETOUR PLAN

DETOUR NOT USED

LEGEND

- DETOUR ROUTE
- PEDESTRIAN & BICYCLE DETOUR ROUTE
- VARIABLE MESSAGE SIGN

0 500 1000 m
1: 25000

ALL DIMENSIONS IN MILLIMETERS UNLESS SHOWN OTHERWISE

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

CONSTRUCTION SEQUENCING PLANS

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. 5116MPT.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 27 OF 92 DWG NO. CSP-3

IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY T. BURTNICK DATE 2/04
ESTIMATED BY D. EMERICH

FILE NAME = u:\5116\vgude1\contract1\5116mpt.dgn
DATE/TIME = 2/23/2004
USER = 2225

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	28	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

VT STATE PLANE GRID

CONTRACT ENDS
STA. 45+154.659

CONTRACT BEGINS
STA. 42+840.000

TOWN OF HOOSICK
TOWN OF BENNINGTON

BEECHWOOD ROAD

BURGESS RD

EMMONS RD

ORBED ROAD

BENNINGTON BYPASS
VERMONT ROUTE 279

BEECH WOOD RD

BAYER RD

INN RD

FARMERS

BRESSE HOLLOW RD

CUTOFF ROAD

VERMONT ROUTE 9

WILLIAM CIPPERLY RD

NYS ROUTE 7

DETOUR

DETOUR

DETOUR

DETOUR

END DETOUR

END DETOUR

END DETOUR

BENNINGTON
BENNINGTON AIRPORT

ROAD CLOSED
1 MILE AHEAD
LOCAL TRAFFIC ONLY

PEDESTRIANS BICYCLES AND HORSES PROHIBITED
500 FEET AHEAD
USE BAYER ROAD

NYS ROUTE 7 CLOSED
FOLLOW DETOUR
TO BENNINGTON
BENNINGTON AIRPORT

DETOUR TO 7 VERMONT 9

DETOUR TO 7 VERMONT 9

DETOUR TO NEW YORK 7

DETOUR 1 MILE

DETOUR 1500 FT

DETOUR NOT USED

LEGEND

DETOUR ROUTE

PEDESTRIAN, BICYCLE & HORSES DETOUR ROUTE

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

CONSTRUCTION SEQUENCING PLANS

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. 5116MPT.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 28 OF 92 DWG NO. CSP-4

IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY D. EMERICH DRAFTED BY C. KAHLBAUGH CHECKED BY T. BURTNICK DATE 2/04

FILE NAME = ut5116\rxpdot\contr-oct1\5116mpt.dgn
DATE/TIME = 2/23/2004
USER = 2225

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	29	92

BENNINGTON CONNECTOR S.H. 98-2
P.I.N. 1306.60
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426
RENSSELAER COUNTY

VT STATE PLANE GRID

NORTH BENNINGTON
67A
PARK ST
COLLEGE RD
HARLAN
DETOUR 1/2 MILE
NYS ROUTE 7 CLOSED FOLLOW DETOUR TO NEW YORK
SETTLERS RD
23
7
24
SQUAW HILL
DETOUR TO NEW YORK NEXT RIGHT
RICE LANE
25
7A
HILLSIDE ST
BENNINGTON RD
VERMONT RAILWAY
MURPHY RD
20
21
67A
41
26
WILLOW RD
27
END DETOUR
BENNINGTON BYPASS
279
28
HEWITT DR
OLD BENNINGTON AIRPORT
22
AUSTIN HILL RD
BARD ROAD
ORCHARD RD
US ROUTE 7
29
30
VAIL RD
19
SILK ROAD
ROARING BRANCH
MORSE RD
HARMON ROAD
ETHAN ALLEN HWY
WILLOW RD
7
FURNACE BROOK
OLD DUMP RD
CHAPEL RD
KOCHER DR
31
33
FAIRVIEW ST
STAGE RD
N BRANCH ST
BOWEN RD
PIPIN KNOLL
AIRPORT RD
WALLOOMSAC RD
BANK ST
WALLOOMSAC RIVER
32
58
OLD BENNINGTON
BENMONT AVE
COUNTY ST
DERMODY RD
W MAIN ST
RIVER ST
DEPOT ST
NORTH ST
SCHOOL ST
PARK ST
GROVE ST
GAGE ST
BRANCH ST
SCOTT ST
COOLIDGE AVE
9
38
WEST RD
40
ELM ST
63
UNION ST
34
FILLMORE RD
39
62
IMPERIAL AVE
BEECH ST
37
36
35
NYS ROUTE 7 ROAD CLOSED 3 MILES AHEAD LOCAL TRAFFIC ONLY
NYS ROUTE 7 ROAD CLOSED 3.5 MILES AHEAD LOCAL TRAFFIC ONLY
BENNINGTON AIRPORT

DETOUR TO NEW YORK 7
DETOUR TO VERMONT 9
DETOUR TO NEW YORK 7
DETOUR TO VERMONT 9
DETOUR TO NEW YORK 7
DETOUR TO VERMONT 9
DETOUR TO VERMONT 9
DETOUR TO NEW YORK 7
DETOUR TO NEW YORK 7
DETOUR TO EAST VERMONT 9
DETOUR TO EAST VERMONT 9
DETOUR TO WEST VERMONT 9
DETOUR TO WEST VERMONT 9
DETOUR TO NEW YORK 7
DETOUR TO NEW YORK 7
DETOUR TO NEW YORK 7

DETOUR NOT USED

LEGEND
DETOUR ROUTE

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

CONSTRUCTION SEQUENCING PLANS

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04
DESIGN FILE NO. 5116MPT.DGN
PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1
PROJ. NO. P.I.N. 1306.60
SHEET 29 OF 92 DWG NO. CSP-5

DESIGNED BY D.EMERICH CHECKED BY D.GOZALKOWSKI DRAFTED BY C.KAHLBAUGH CHECKED BY T.BURTNICK DATE 2/04
IN CHARGE OF T.KARIS CHECKED BY D.EMERICH ESTIMATED BY D.GOZALKOWSKI
FILE NAME = u:\5116\NYSDOT\CONTRACT1\5116mpt.dgn
DATE/TIME = 2/23/2004
USER = 2225

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	30	92

BENNINGTON CONNECTOR S.H. 98-2
P.I.N. 1306.60
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426
RENSSELAER COUNTY

VT STATE PLANE GRID

OLD BENNINGTON →
BENNINGTON AIRPORT →

NYS ROUTE 7
ROAD CLOSED
4.5 MILES AHEAD
LOCAL TRAFFIC ONLY
DETOUR →

VERMONT ROUTE 9
← TO OLD BENNINGTON & BENN. AIRPORT

BENMONT AVENUE
WEST MAIN STREET
DEPOT STREET
TO NORTH BENNINGTON, MANCHESTER, TROY, N.Y.
U.S. ROUTE 7
TO NORTH BENNINGTON, MANCHESTER, TROY, N.Y.
NORTH ST.
PLEASANT ST.
SCHOOL
DEWEY STREET
GRANT STREET
WASHINGTON AVENUE
FRANKLIN LANE
ELM STREET
UNION STREET
60 m
60 m
60 m
VERMONT ROUTE 9 TO BRATTLEBORO
U.S. ROUTE 7 TO POWNAL

DETOUR TO NEW YORK 7 ↑
DETOUR TO NEW YORK 7 →
DETOUR TO NEW YORK 7 ↱
DETOUR 500 FT
DETOUR TO NEW YORK 7 ↰
DETOUR TO NEW YORK 7 ←
DETOUR TO NEW YORK 7 ↑
DETOUR TO NEW YORK 7 ←
DETOUR TO NEW YORK 7 ↑

END DETOUR
END DETOUR

NYS ROUTE 7 CLOSED
4.5 MILES AHEAD
FOLLOW DETOUR
TO NEW YORK

NYS ROUTE 7 CLOSED
FOLLOW DETOUR
TO NEW YORK

DETOUR NOT USED

LEGEND
DETOUR ROUTE

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

CONSTRUCTION SEQUENCING PLANS

SURVEYED BY	C.H.A. & V.S.E.	DATE	12/93
DESIGNED BY	D.W.E.	DATE	2/04
DRAWN BY	C.A.K.	DATE	2/04
CHECKED BY	T.P.K.	DATE	2/04

DESIGN FILE NO. 5116MPT.DGN
PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1
PROJ. NO. P.I.N. 1306.60
SHEET 30 OF 92 DWG NO. CSP-6

DESIGNED BY D.EMERICH CHECKED BY D.GOZALKOWSKI DRAFTED BY C.KAHLBAUGH CHECKED BY T.BURTNICK DATE 2/04
ESTIMATED BY D.EMERICH CHECKED BY D.GOZALKOWSKI
IN CHARGE OF T.KARIS
FILE NAME = u:\5116\vugdoc\contract1\5116mpt.dgn
DATE/TIME = 2/23/2004
USER = 2225

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	31	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

HORIZONTAL CONTROL TABLE

HCL POINT	COORDINATES NORTH	COORDINATES EAST	HCL STATION	DESCRIPTION
S.H. 1426 AND S.H. 98-2				
BEGIN	42449.694	435000.301	42+840.000	BEGIN S.H. 1426
P.C. W.B. 1	42452.263	435058.798	42+898.553	P.C. CURVE W.B. 1
P.I. W.B. 1	42453.927	435096.690	42+936.481 BK.= 42+936.290 AHD.	P.I. CURVE W.B. 1
P.T. W.B. 1	42449.009	435134.298	42+974.218	P.T. CURVE W.B. 1
T.S. W.B. 2	42443.698	435174.904	43+015.170	T.S. CURVE W.B. 2
S.C. W.B. 2	42437.630	435230.564	43+071.170	S.C. CURVE W.B. 2
P.I. W.B. 2	42416.974	435379.249	43+221.255 BK.= 43+202.942 AHD.	P.I. CURVE W.B. 2
P.O.L.	42457.019	435390.530	43+233.243	EQUALITY - S.H. 1426 STA. 43+233.243 BK.= S.H. 1426 STA. 143+233.243 AHD.
P.O.L.	42457.019	435390.530	43+233.243	EQUALITY - S.H. 1426 STA. 43+233.243 BK.= S.H. 98-2 STA. 43+233.243 AHD.
P.O.C.	42471.524	435429.670	43+275.000	END S.H. 98-2 RECONSTRUCTION
C.S. W.B. 2	42508.375	435498.329	43+353.027	C.S. CURVE W.B. 2
S.T. W.B. 2	42541.143	435543.728	43+409.027	S.T. CURVE W.B. 2
T.S. W.B. 3	42711.682	435769.632	43+692.076	T.S. CURVE W.B. 3
S.C. W.B. 3	42745.940	435813.927	43+748.076	S.C. CURVE W.B. 3
P.I. W.B. 3	42854.156	435958.359	43+928.543 BK.= 43+919.395 AHD.	P.I. CURVE W.B. 3
P.O.L.	42906.356	435963.820	43+968.317	EQUALITY OVER FARMERS INN ROAD
C.S. W.B. 3	43019.616	436030.431	44+099.862	C.S. CURVE W.B. 3
S.T. W.B. 3	43070.606	436053.575	44+155.862	S.T. CURVE W.B. 3
P.O.L.	43215.088	436117.132	44+313.705	EQUALITY OVER DAILEY ACCESS ROAD
T.S. W.B. 4	43441.862	436216.890	44+561.451	T.S. CURVE W.B. 4
S.C. W.B. 4	43492.852	436240.034	44+617.451	S.C. CURVE W.B. 4
P.I. W.B. 4	43623.642	436296.855	44+760.042 BK.= 44+754.943 AHD.	P.I. CURVE W.B. 4
C.S. W.B. 4	43718.917	436402.956	44+897.534	C.S. CURVE W.B. 4
S.T. W.B. 4	43757.002	436444.007	44+953.534	S.T. CURVE W.B. 4
P.O.L.	43892.063	436593.036	45+154.659	EQUALITY - STA. 45+154.659 BK. (NEW YORK) = STA. 12+130.455 AHD. (VERMONT) END S.H. 98-2
S.H. 1426 (STEM SECTION)				
BEGIN / P.C. 1	42457.019	435390.530	143+233.243	BEGIN S.H. 1426 (STEM SECTION)/ P.C. CURVE 1
P.I. 1	42415.112	435436.398	143+295.373 BK.= 143+291.592 AHD.	P.I. CURVE 1
P.T. 1	42406.571	435497.938	143+353.722	P.T. CURVE 1
END	42361.719	435821.118	143+680.000	END S.H. 1426

HORIZONTAL CURVE DATA

S.H. 1426

CURVE W.B. 1

P.C.= STA.42+898.553
P.T.= STA.42+974.218

Δ= 09°57'58.1"
R= 435.000 m
T= 37.928 m
L= 75.665 m
E= 1.650 m

e_{max}= 0.060 DN. RT.

CURVE W.B. 2

T.S.= STA.43+015.170
S.C.= STA.43+071.170
C.S.= STA.43+353.027
S.T.= STA.43+409.027

Δ= 44°30'02.5"
R= 435.000 m
Δc= 37°07'28.9"
Lc= 281.857 m
Ts= 206.085 m
Ls= 56.000 m
Θs= 03°41'16.8"

e_{max}= 0.060 DN. LT.

CURVE I

P.C.= STA.143+233.243
P.T.= STA.143+353.722

Δ= 34°30'52.9"
R= 200.000 m
T= 62.130 m
L= 120.479 m
E= 9.428 m

e_{max}= 0.060 DN. LT.

S.H. 98-2

CURVE W.B. 2

T.S.= STA.43+015.170
S.C.= STA.43+071.170
C.S.= STA.43+353.027
S.T.= STA.43+409.027

Δ= 44°30'02.5"
R= 435.000 m
Δc= 37°07'28.9"
Lc= 281.857 m
Ts= 206.085 m
Ls= 56.000 m
Θs= 03°41'16.8"

e_{max}= 0.060 DN. LT.

CURVE W.B. 3

T.S.= STA.43+692.076
S.C.= STA.43+748.076
C.S.= STA.44+099.862
S.T.= STA.44+155.862

Δ= 29°12'19.8"
R= 800.000 m
Δc= 25°11'41.4"
Lc= 351.786 m
Ts= 236.467 m
Ls= 56.000 m
Θs= 02°00'19.3"

e_{max}= 0.049 DN. LT.

CURVE W.B. 4

T.S.= STA.44+561.451
S.C.= STA.44+617.451
C.S.= STA.44+897.534
S.T.= STA.44+953.534

Δ= 24°04'12.6"
R= 800.000 m
Δc= 20°03'34.1"
Lc= 280.083 m
Ts= 198.591 m
Ls= 56.000 m
Θs= 02°00'19.3"

e_{max}= 0.049 DN. RT.

HORIZONTAL AND VERTICAL CONTROLS

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NYHVC-1.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 31 OF 92 DWG NO. HVC-1

IN CHARGE OF T.KARIS DESIGNED BY D.EMERICH CHECKED BY D.GOZALKOWSKI DRAFTED BY C.KAHLBAUGH CHECKED BY T.BURTNICK DATE 2/04
CHECKED BY D.GOZALKOWSKI ESTIMATED BY D.EMERICH CHECKED BY

FILE NAME = u:\515\sysdot\contract1\nyhvc1.dgn
DATE/TIME = 2/23/2004
USER = 2225

BASELINE TIES

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	0146001	32	92

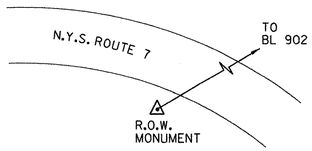
BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

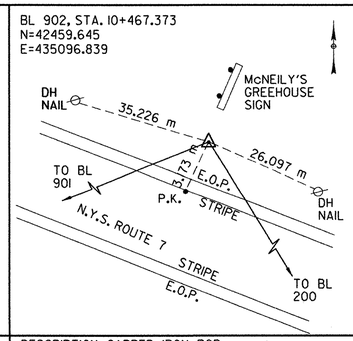
BL 901, STA. 10+000.000
N=43270.441
E=434638.058



"NO TIES"

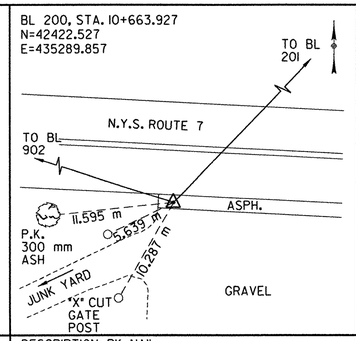
DESCRIPTION: N/A

BL 902, STA. 10+467.373
N=42459.645
E=435096.839



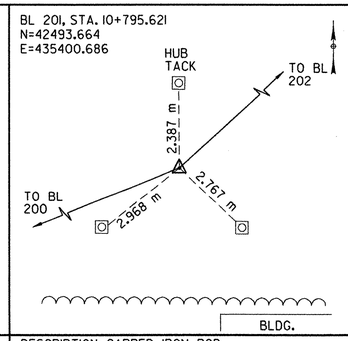
DESCRIPTION: CAPPED IRON ROD

BL 200, STA. 10+663.927
N=42422.527
E=435289.857



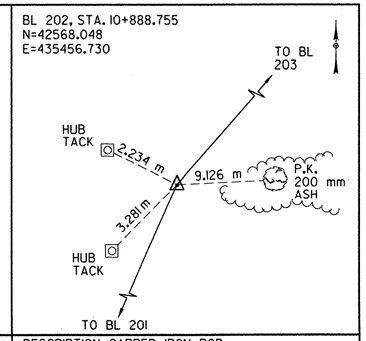
DESCRIPTION: PK NAIL

BL 201, STA. 10+795.621
N=42493.664
E=435400.686



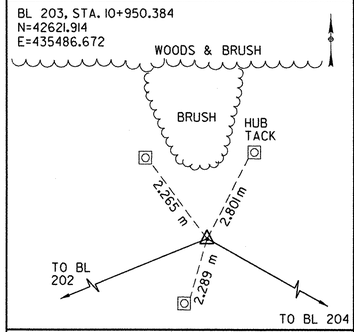
DESCRIPTION: CAPPED IRON ROD

BL 202, STA. 10+888.755
N=42568.048
E=435456.730



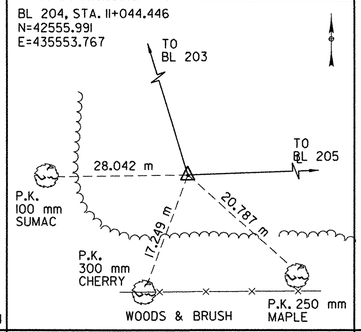
DESCRIPTION: CAPPED IRON ROD

BL 203, STA. 10+950.384
N=42621.914
E=435486.672



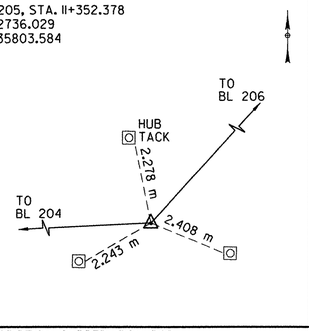
DESCRIPTION: CAPPED IRON ROD

BL 204, STA. 11+044.446
N=42555.991
E=435553.767



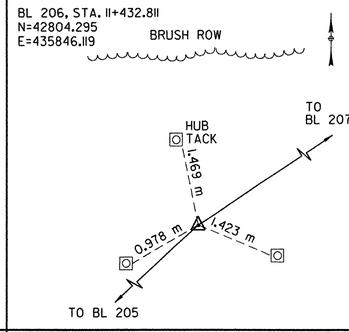
DESCRIPTION: CAPPED IRON ROD

BL 205, STA. 11+352.378
N=42736.029
E=435803.584



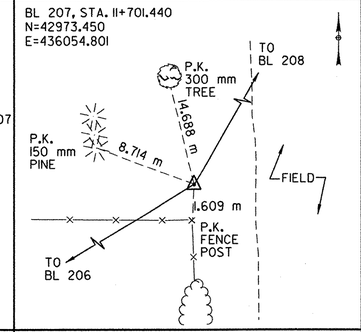
DESCRIPTION: CAPPED IRON ROD

BL 206, STA. 11+432.811
N=42804.295
E=435846.119



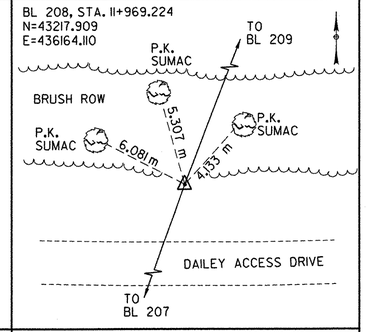
DESCRIPTION: CAPPED IRON ROD

BL 207, STA. 11+701.440
N=42973.450
E=436054.801



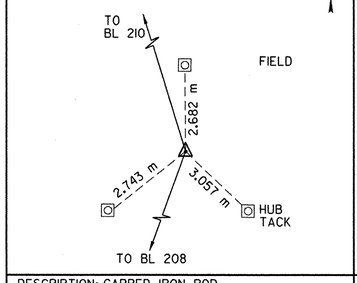
DESCRIPTION: CAPPED IRON ROD

BL 208, STA. 11+969.224
N=43217.909
E=436164.110



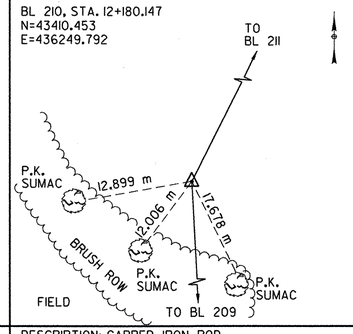
DESCRIPTION: CAPPED IRON ROD

BL 209, STA. 12+100.542
N=43336.130
E=436221.278



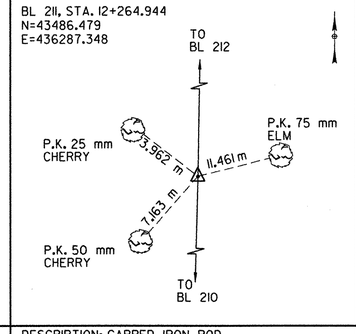
DESCRIPTION: CAPPED IRON ROD

BL 210, STA. 12+180.147
N=43410.453
E=436249.792



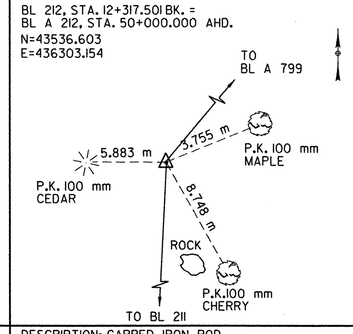
DESCRIPTION: CAPPED IRON ROD

BL 211, STA. 12+264.944
N=43486.479
E=436287.348



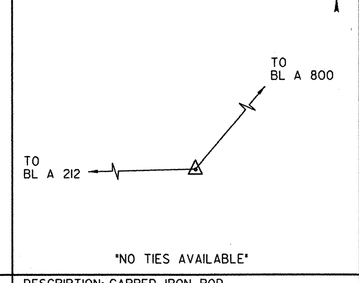
DESCRIPTION: CAPPED IRON ROD

BL 212, STA. 12+317.501 BK. =
BL A 212, STA. 50+000.000 AHD.
N=43536.603
E=436303.154



DESCRIPTION: CAPPED IRON ROD

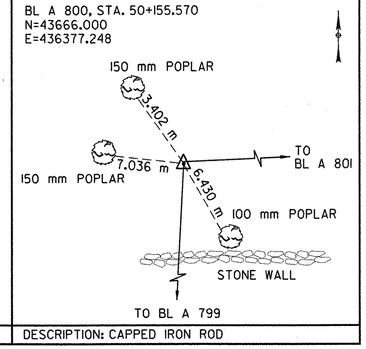
BL A 799, STA. 50+058.089
N=43572.836
E=436348.557



"NO TIES AVAILABLE"

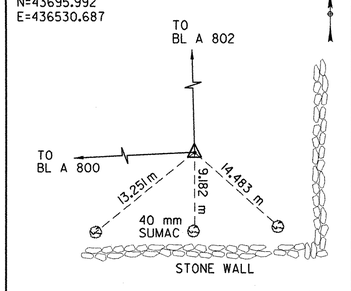
DESCRIPTION: CAPPED IRON ROD

BL A 800, STA. 50+155.570
N=43666.000
E=436377.248



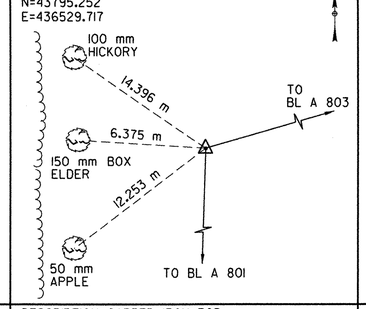
DESCRIPTION: CAPPED IRON ROD

BL A 801, STA. 50+311.912
N=43695.992
E=436530.687



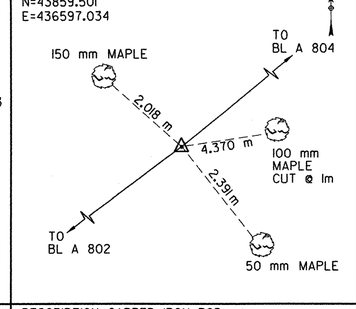
DESCRIPTION: CAPPED IRON ROD

BL A 802, STA. 50+411.177
N=43795.252
E=436529.717



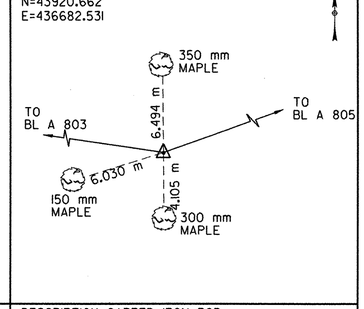
DESCRIPTION: CAPPED IRON ROD

BL A 803, STA. 50+504.234
N=43859.501
E=436597.034



DESCRIPTION: CAPPED IRON ROD

BL A 804, STA. 50+609.354
N=43920.662
E=436682.531



DESCRIPTION: CAPPED IRON ROD

TABLE OF BENCHMARKS

BM	DWG. NO	STATION & OFFSET	DESCRIPTION	ELEV. (m)
1	P-1 & RP-1	STA. 43+175, 10 m, RT.	R.R. SPIKE IN POLE NM83	194.566
2	P-1 & RP-1	STA. 43+219, 28 m, RT.	R.R. SPIKE IN POLE NM84	193.914
3	RP-2	STA. 43+727, 34 m, RT.	R.R. SPIKE IN TWIN CHERRY TREE	207.369
4	RP-2	STA. 43+864, 81 m, RT.	R.R. SPIKE IN 200 mm ELM	202.683
5	RP-2	STA. 44+194, 73 m, LT.	R.R. SPIKE IN POLE NM6-11	208.372
6	RP-3	STA. 44+853, 41 m, RT.	PK NAIL IN ROOT OF 300 mm OAK	247.750
7	RP-3	STA. 45+124, 34 m, RT.	R.R. SPIKE IN WHITE BIRCH	256.143

DATUM

VERTICAL NAVD 88

HORIZONTAL NAD 83 (1992)

HORIZONTAL AND VERTICAL CONTROLS

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NYBLTIE.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 32 OF 92 DWG. NO. HVC-2

DESIGNED BY D.EMERICH CHECKED BY D.GOZALKOWSKI ESTIMATED BY D.EMERICH DRAFTED BY C.KAHLBAUGH CHECKED BY I.BURTNICK DATE 2/04

IN CHARGE OF T.KARIS

FILE NAME = c:\5116\mgndot\contract1\nybltie.dgn
DATE/TIME = 2/23/2004
USER = 2225

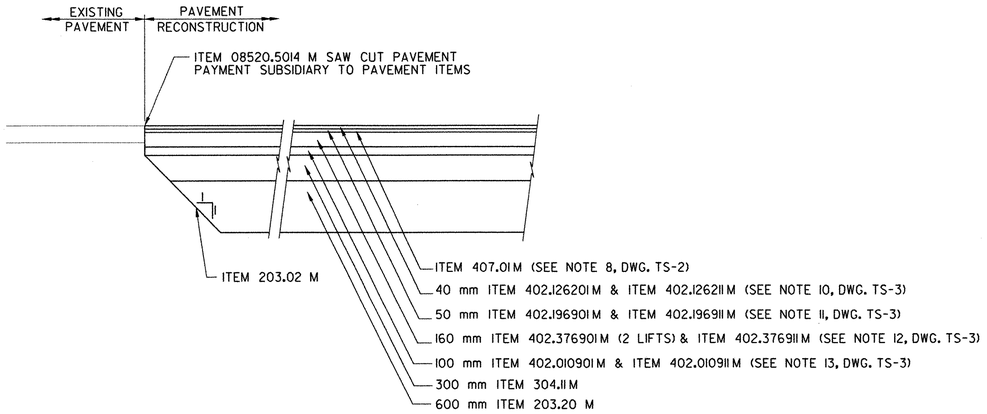
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	33	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

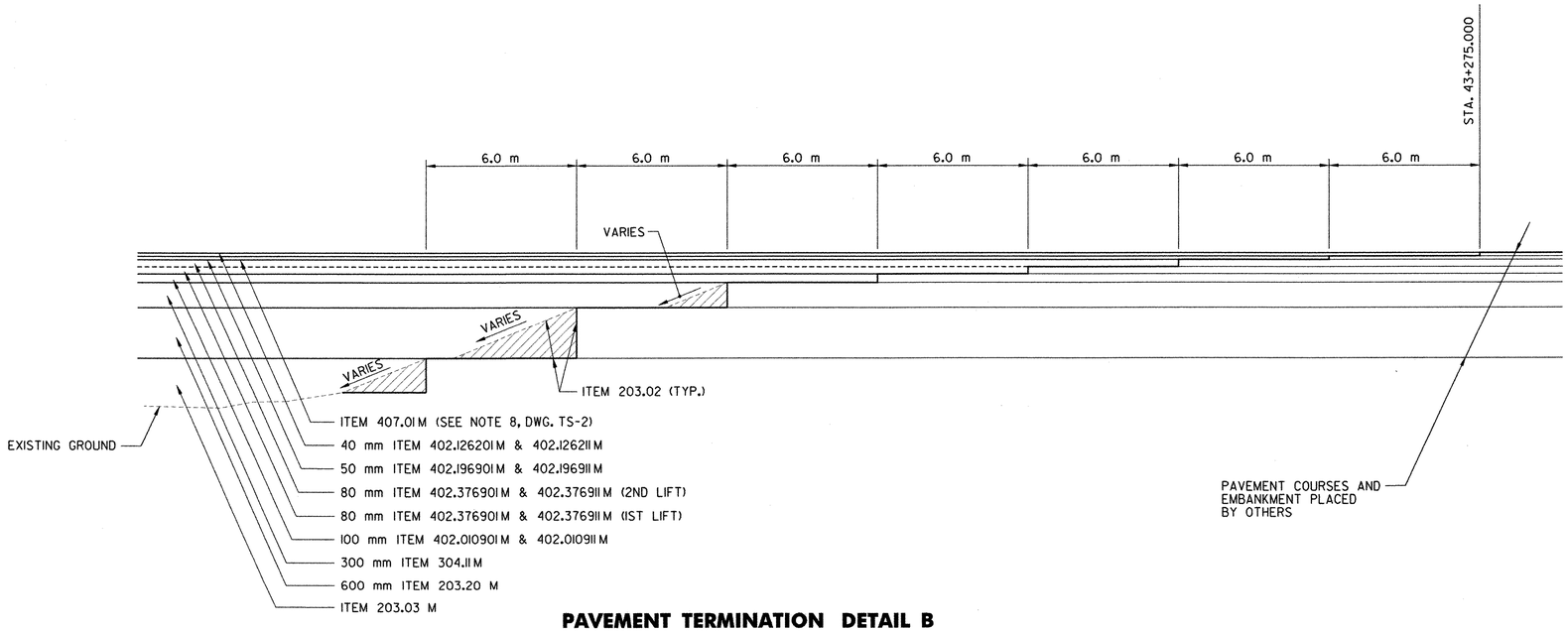
RENSSELAER COUNTY



PAVEMENT TERMINATION DETAIL A

N.T.S.

STA. 42+880.000
STA. 143+490.000



PAVEMENT TERMINATION DETAIL B

N.T.S.
STA. 43+275.000

MISCELLANEOUS DETAILS

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. NYMD-1.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 33 OF 92 DWG. NO. MD-1

IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY D. GOZALKOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY T. BURTNICK DATE 2/04

FILE NAME = u:\5116\nydot\contract1\nymd-1.dgn
DATE/TIME = 2/23/2004
USER = 2225

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	34	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

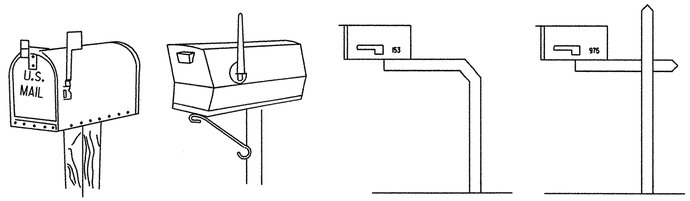


EXHIBIT A EXHIBIT B EXHIBIT C EXHIBIT D

NOTES:

THERE ARE TWO APPROVED STYLES OF BOXES: (1) TRADITIONAL DESIGN IN THREE STANDARD SIZES (SEE EXHIBIT A) AND (2) CONTEMPORARY DESIGN (SEE EXHIBIT B).

IN AREAS WHERE SNOW REMOVAL IS A PROBLEM THE USE OF A SEMI-ARCH OR EXTENDED ARM TYPE OF SUPPORT IS SUGGESTED (SEE EXHIBIT C & D). THIS ALLOWS SNOWPLOWS TO SWEEP NEAR OR UNDER BOXES WITHOUT DAMAGE TO SUPPORTS AND PROVIDES EASY ACCESS TO THE BOXES BY CARRIER AND CUSTOMERS.

CONSTRUCTION

MAILBOXES REMOVED SHALL NOT BE RESET UNTIL THE MOUNTING POST MEETS AASHTO RECOMMENDATIONS FOR MAIL BOX SUPPORTS BEING NOT MORE THAN 100 mm x 100 mm OR 100 mm DIA. WOODPOSTS OR A GALVANIZED PIPE WITH A 50 mm DIA. (MAX.), STANDARD STRENGTH EMBEDDED NO MORE THAN 600 mm INTO THE GROUND. THE MINIMUM SIZE SHALL BE 25 mm GALVANIZED POST.

ALL MAILBOXES SHALL BE SET IN ACCORDANCE WITH THE U.S. POSTAL SERVICE MOUNTING PROCEDURE OF 1.0 m - 1.2 m ABOVE THE ROADWAY AND BE OFFSET 200 mm - 300 mm FROM A PAVED SURFACE. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER, THE LOCAL POSTMASTER AND THE OWNER ONE WEEK BEFORE THE MOVING OF ANY PRIVATE MAILBOX. THIS SHALL APPLY TO TEMPORARY MOVES, REPLACEMENTS & PERMANENT MOVES.

UNDER NO CIRCUMSTANCES SHALL ANY MAILBOX BE MOVED WHEN ANY TYPE OF MAIL IS IN THE MAILBOX.

ITEM 619.10 M - MAILBOXES (EA)

LOCATION	OFFSET	QUANTITY
42+935	RT.	2
43+028	RT.	1
43+175	RT.	1
TOTAL QUANTITY		4

MAILBOX DETAILS
N.T.S.

MISCELLANEOUS DETAILS

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NYMD-2.DGN

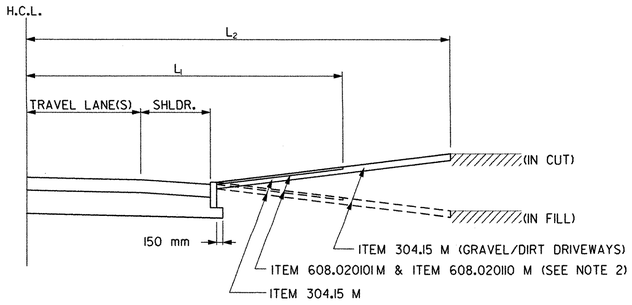
PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

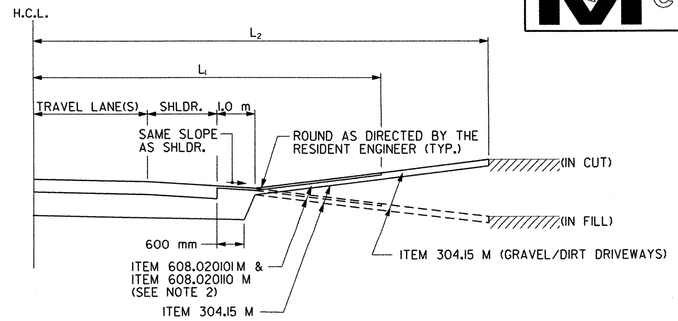
SHEET 34 OF 92 DWG NO. MD-2

IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY D. GOZALKOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY I. BURTNICK DATE 2/04

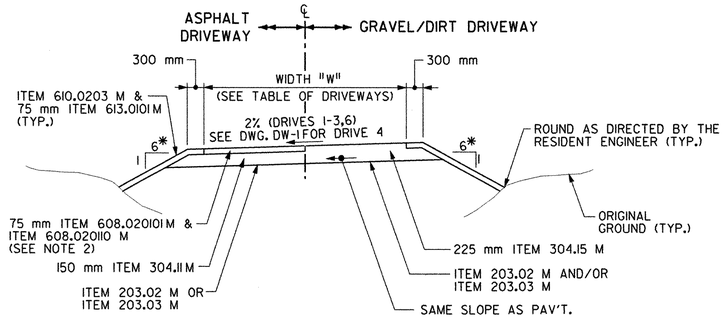
FILE NAME = u:\51R\vgdot\contract1\vgmd-2.dgn
DATE/TIME = 2/23/2004
USER = 2225



SECTION A-A (W/CURB)

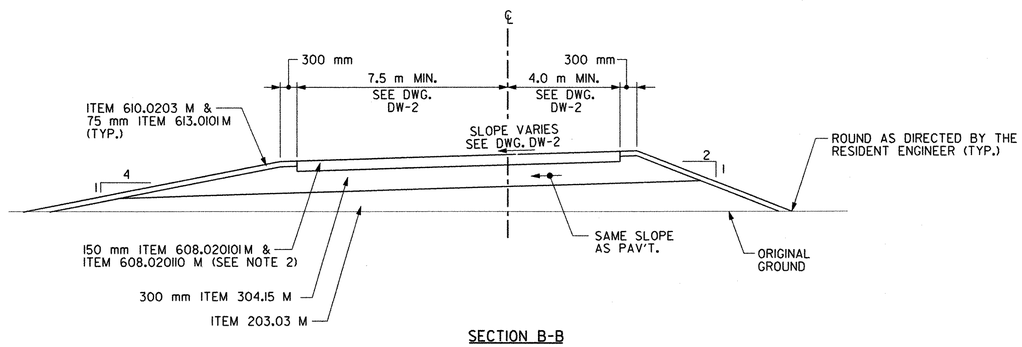


SECTION A-A (W/O CURB)

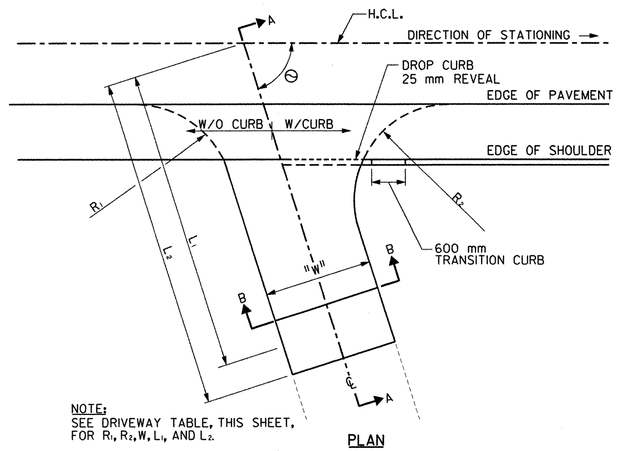


SECTION B-B
(DRIVEWAYS 1-4, 6)

*SIDE SLOPES OF DRIVEWAYS TO BE 1ON 6 UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER.



SECTION B-B
(DRIVEWAY 5)



NOTE:
SEE DRIVEWAY TABLE, THIS SHEET, FOR R_1, R_2, W, L_1, AND L_2.

PLAN

DRIVEWAY DETAIL
N.T.S.

TABLE OF DRIVEWAYS

DW NO.	STATION AND OFFSET	WIDTH "W"	EXISTING DW TYPE	RETURN RADIUS R1	RETURN RADIUS R2	LIMITS L1	LIMITS L2	Θ
1	42+933.0, LT.	37.5 m	GRAVEL	5.5 m	5.5 m	10.0 m	10.0 m	90°
2	43+031.0, LT.	3.0 m	GRAVEL	5.5 m	5.5 m	8.0 m	14.0 m	90°
3	43+074.5, LT.	3.0 m	GRAVEL	5.5 m	5.5 m	8.5 m	21.0 m	100°
4	42+896.673, RT.	REFER TO DWG. DW-1 FOR DRIVEWAY LAYOUT						
5	43+050.193, RT.	REFER TO DWG. DW-2 FOR DRIVEWAY LAYOUT						
6	42+914.0, LT.	6.0 m	GRAVEL	5.5 m	5.5 m	9.0 m	9.0 m	90°

NOTES:
1. A RELEASE FROM THE PROPERTY OWNER IS REQUIRED BEFORE ANY ADJUSTMENT IS MADE ON PRIVATE PROPERTY.
2. PAYMENT FOR ITEM 608.0201110 M SHALL BE INCLUDED IN PRICE BID FOR ITEM 608.0201110 M.

ITEM NO.	DESCRIPTION	UNIT
203.02 M	UNCLASSIFIED EXCAVATION AND DISPOSAL	m^3
203.03 M	EMBANKMENT IN PLACE	m^3
304.15 M	SUBBASE COURSE, OPTIONAL TYPE	m^3
608.0201101 M	ASPHALT CONCRETE SIDEWALKS, DRIVEWAYS, AND BICYCLE PATHS	†
608.0201110 M	PLANT PRODUCTION QUALTITY ADJUSTMENT TO 608.0201101 M	QU
610.0203 M	ESTABLISHING TURF	m^2
613.0101 M	TOPSOIL	m^3

MISCELLANEOUS DETAILS

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04
DESIGN FILE NO. NYMD-3.DGN
PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1
PROJ. NO. P.I.N. 1306.60
SHEET 35 OF 92 DWG. NO. MD-3

IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY C. KAHLBAUGH DRAFTED BY D. GOZALKOWSKI CHECKED BY T. BURTNICK DATE 2/04
FILE NAME = u:\5161\vyadot\contract1\vygnd-3.dgn
DATE/TIME = 2/23/2004
USER = 2225

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	0146001	36	92

BENNINGTON CONNECTOR S.H. 98-2

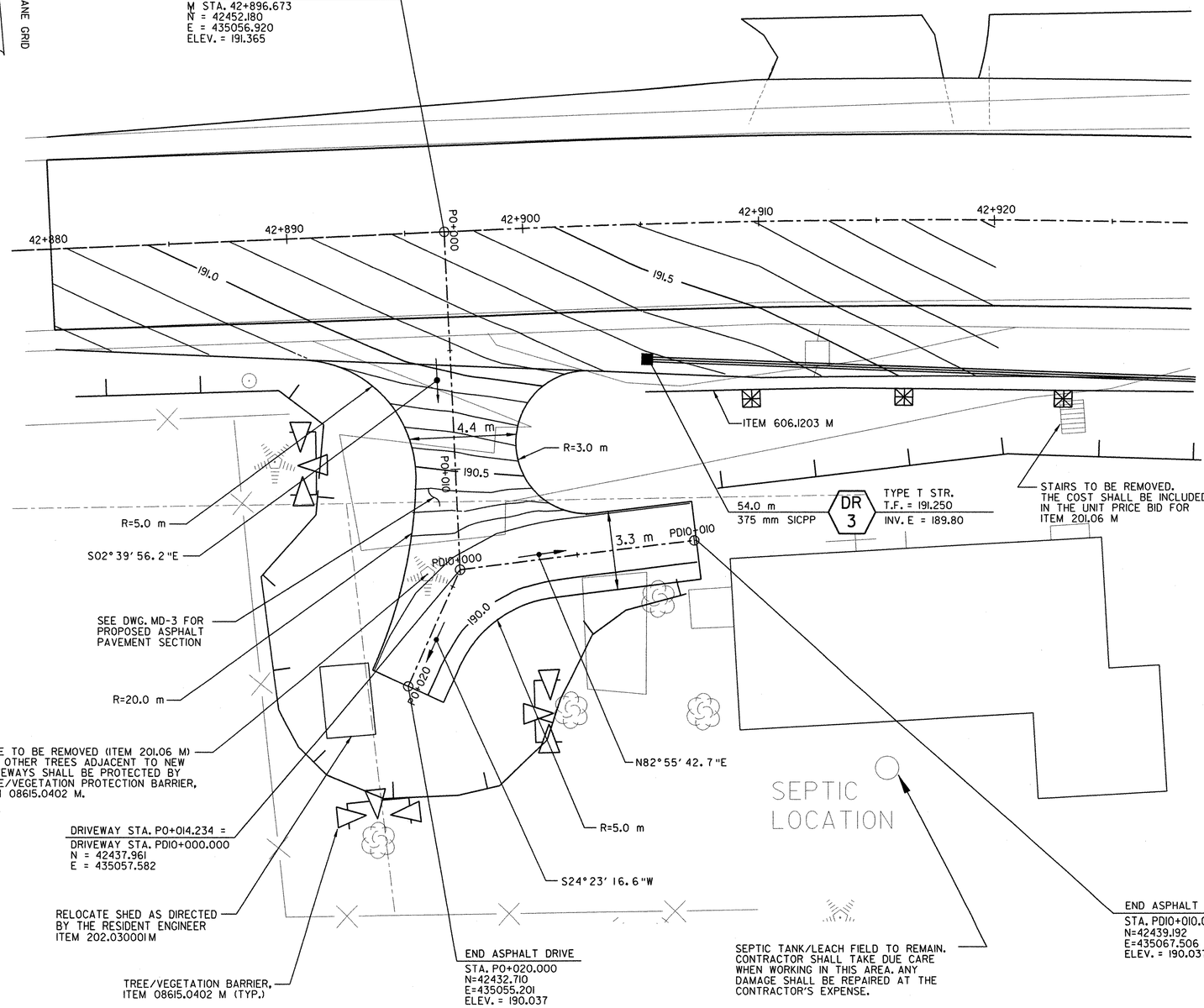
P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

VT STATE PLANE GRID

DRIVEWAY STA. P0+000.000 =
℄ STA. 42+896.673
N = 42452.180
E = 435056.920
ELEV. = 191.365



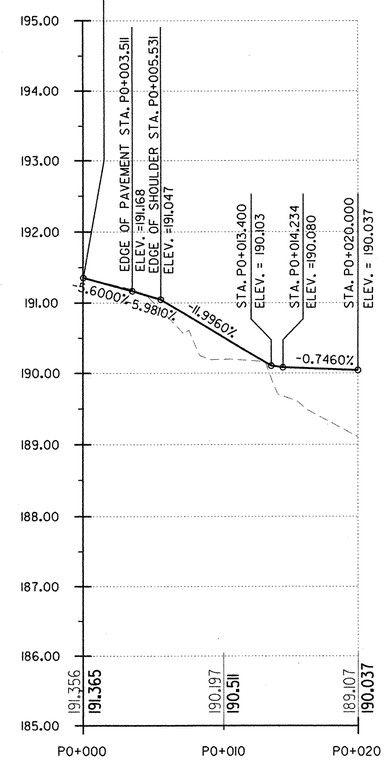
PLAN

1:100

DRIVEWAY (4)

NOTE: SEE DWGS. P-1 & MD-3 FOR ADDITIONAL SITE INFORMATION

DRIVEWAY STA. P0+000.000 =
℄ STA. 42+896.673
ELEV. =191.365



PROFILE

HORZ. = 1:200
VERT. = 1:40

DRIVEWAY (4)

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

DRIVEWAY PLANS

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. NYDW-1.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/I

PROJ. NO. P.I.N. 1306.60

SHEET 36 OF 92 DWG NO. DW-1

DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY I. BURTNICK DATE 2/04
ESTIMATED BY D. EMERICH CHECKED BY D. GOZALKOWSKI
IN CHARGE OF T. KARIS

FILE NAME = u:\5118\roddat\contract1\nydw-1.dgn
DATE/TIME = 2/23/2004
USER = 2225

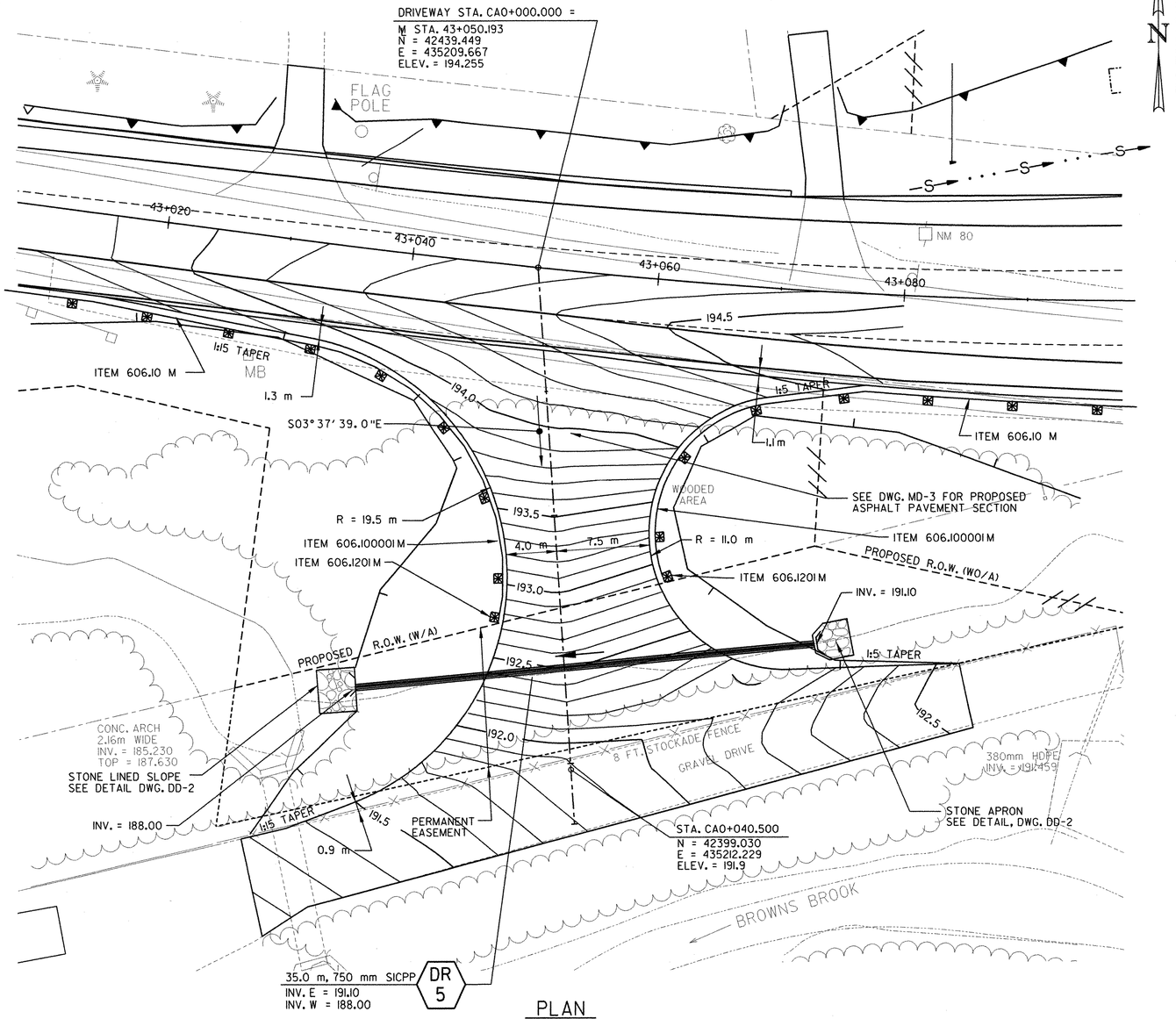
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	0146001	37	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

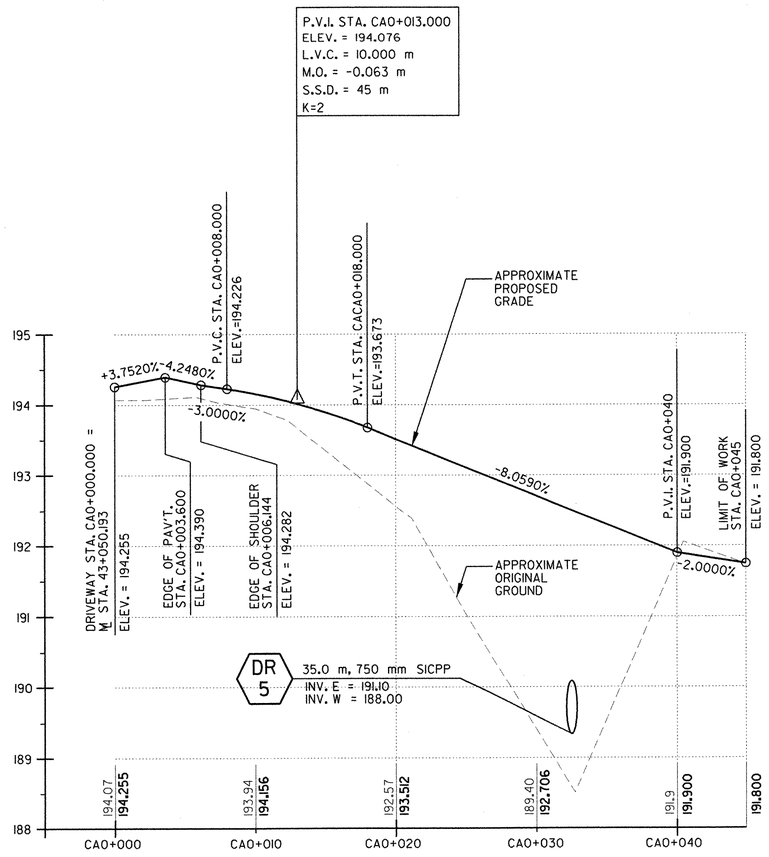


PLAN

1:200

DRIVEWAY (5)

NOTE: SEE DWG.'S P-1, AND MD-3 FOR ADDITIONAL SITE INFORMATION



PROFILE

H 1:200
V 1:40

DRIVEWAY (5)

DRIVEWAY PLANS

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. NYDW-2.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/I

PROJ. NO. P.I.N. 1306.60

SHEET 37 OF 92 DWG NO. DW-2

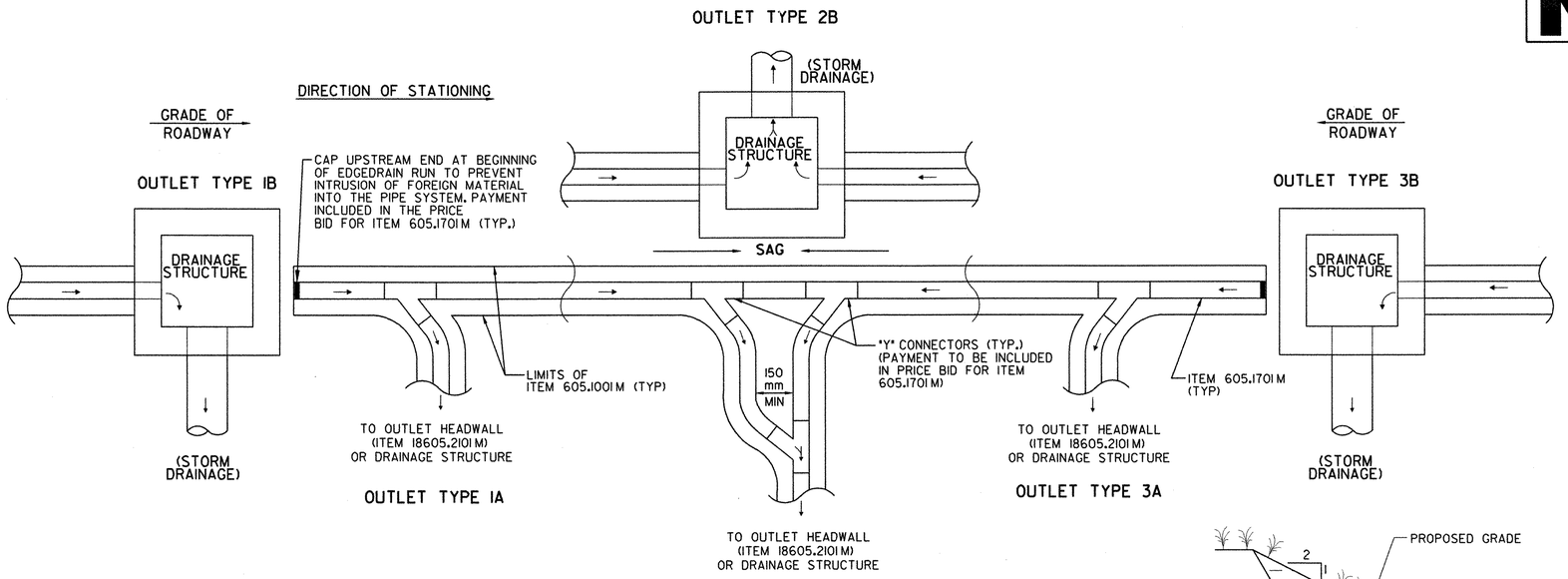
DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI DRAFTED BY D. GOZALKOWSKI CHECKED BY C. KAHLBAUGH ESTIMATED BY D. EMERICH CHECKED BY I. BURTNICK DATE 2/04

IN CHARGE OF T. KARIS

FILE NAME = u:\151\lvgdot\contract1\lvgdr-2.dgn
DATE/TIME = 2/23/2004
USER = 2225

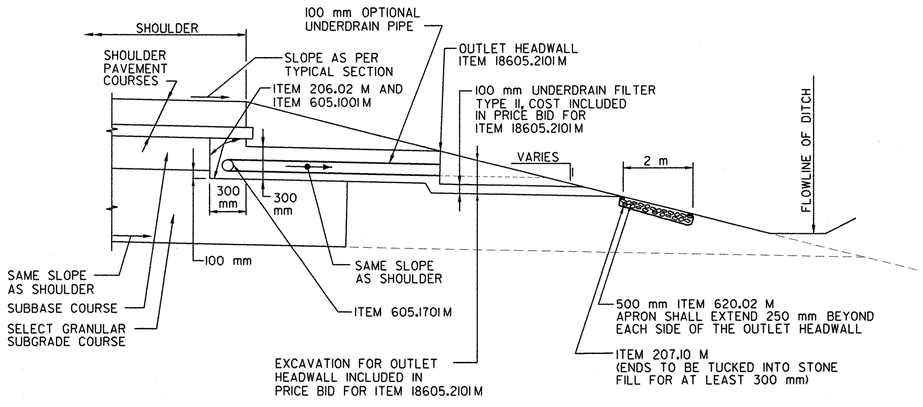
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	38	92

BENNINGTON CONNECTOR S.H. 98-2
P.I.N. 1306.60
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426
RENSSELAER COUNTY



EDGEDRAIN OUTLET TREATMENTS

N.T.S.
(SEE TABLE BELOW FOR LOCATIONS)



EDGEDRAIN OUTLET DETAIL

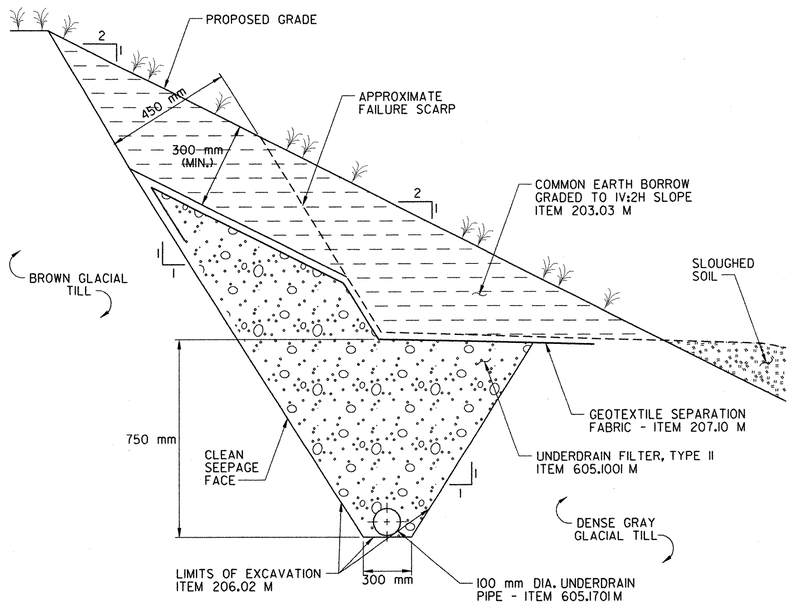
N.T.S.

NOTE:

EDGEDRAINS SHALL OUTLET INTO DRAINAGE STRUCTURES OR OUTLET HEADWALLS (ITEM 18605.2101M). PAYMENT FOR THE INSTALLATION OF THE BRANCH OUTLETS, INCLUDING EXCAVATION, UNDERDRAIN FILTER MATERIAL, UNDERDRAIN PIPE, AND "Y" CONNECTORS, SHALL BE INCLUDED IN THE PRICE BID FOR ITEMS 206.02 M, 605.1001M, AND 605.1701M OF THE LONGITUDINAL EDGEDRAIN RUNS.

EDGEDRAIN OUTLET TREATMENTS

STATION	OFFSET	OUTLET TYPE	OUTLET TREATMENT
S.H. 1426 & S.H. 98-2			
42+880	LT, RT	3A	ITEM 18605.2101M
42+905	RT	3B	OUTLET IN DR-3
42+958.5	LT	3B	OUTLET IN DR-2
42+958.5	RT	3B	OUTLET IN DR-4
43+090	LT, RT	3A	ITEM 18605.2101M
43+118	LT	2A	ITEM 18605.2101M
43+150	LT, RT	3A	ITEM 18605.2101M
43+160	LT	2A	ITEM 18605.2101M
43+213	LT	2A	ITEM 18605.2101M
43+215	LT, RT	3A	ITEM 18605.2101M
43+400	LT	2A	ITEM 18605.2101M
S.H. 1426 (STEM SECTION)			
143+355	LT, RT	IA	ITEM 18605.2101M
143+425	LT, RT	IA	ITEM 18605.2101M
143+490	LT, RT	IA	ITEM 18605.2101M



FRENCH DRAIN DETAIL

N.T.S.
STA. 43+097, LT TO STA. 43+240, LT
STA. 43+370, LT TO STA. 43+430, LT

NOTES:

1. TRENCH MAY BE EXCAVATED FROM TOP OF SLOPE.
2. DRAINAGE PIPE TO DRAIN AT 2% MIN. TO DOWNCHUTE.
3. DRAINAGE CHANNEL MUST BE EXCAVATED 750 mm INTO DENSE GRAY TILL. ESTABLISH POSITION AND ELEVATION OF DOWNCHUTE AND LATERAL PIPE CONNECTION. EXCAVATE INTO GRAY TILL AT A 2% GRADE ALONG STAKED TRENCH LINE.
4. SLOUGHED SOIL TO BE USED AS COVER SOIL.

DRAINAGE DETAILS

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04
DESIGN FILE NO. NYDD-1.DGN
PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1
PROJ. NO. P.I.N. 1306.60
SHEET 38 OF 92 DWG NO. DD-1

DESIGNED BY D.EMERICH CHECKED BY D.GOZALKOWSKI ESTIMATED BY D.EMERICH CHECKED BY T.BURTNICK DATE 2/04
DRAFTED BY C.KAHLBAUGH CHECKED BY D.GOZALKOWSKI
IN CHARGE OF T.KARIS
FILE NAME = u:\5116\nydot\contract1\nydd-1.dgn
DATE/TIME = 2/23/2004
USER = 2225

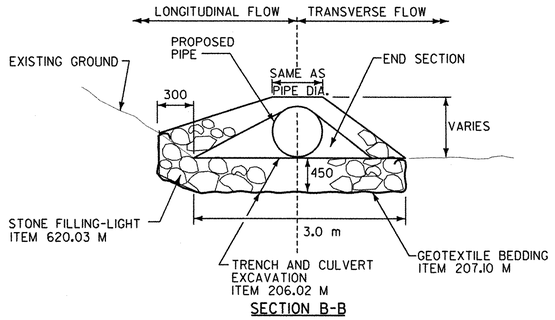
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	39	92

BENNINGTON CONNECTOR S.H. 98-2

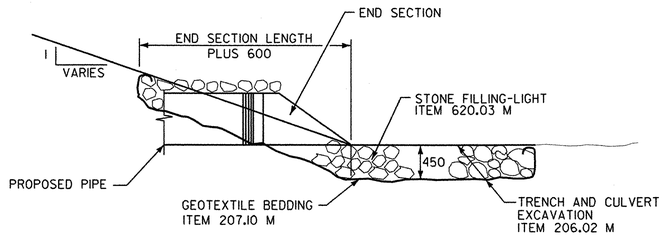
P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

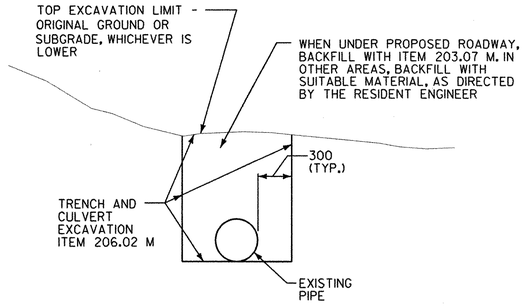
RENSSELAER COUNTY



SECTION B-B



SECTION A-A

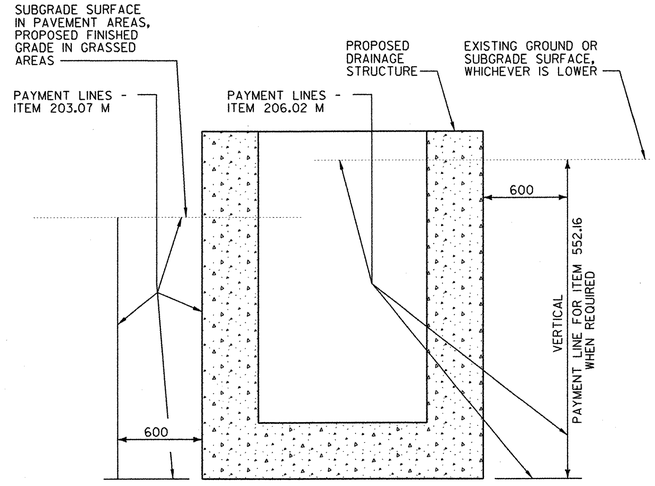


EXISTING PIPE REMOVAL DETAIL

N.T.S.

(SEE DRAINAGE TABLE, DWG DT-1 FOR LOCATIONS)

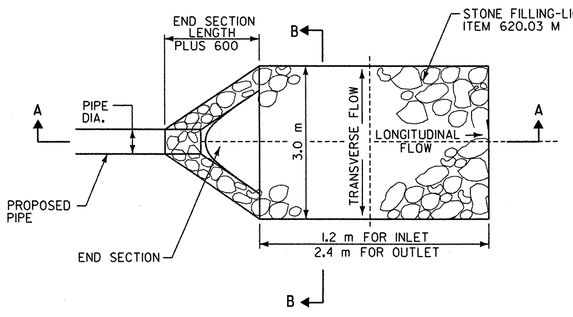
NOTE:
IF THE EXCAVATION LIMITS FOR THE INSTALLATION OF A NEW PIPE OVERLAPS THE EXCAVATION LIMITS FOR PIPE REMOVALS, PAYMENT FOR EXCAVATION SHALL BE PAID ONLY FOR THE NEW PIPE INSTALLATION.



INSTALLATION OF PROPOSED DRAINAGE STRUCTURES

N.T.S.

(SEE DRAINAGE TABLE, DWG. DT-1 FOR LOCATIONS)

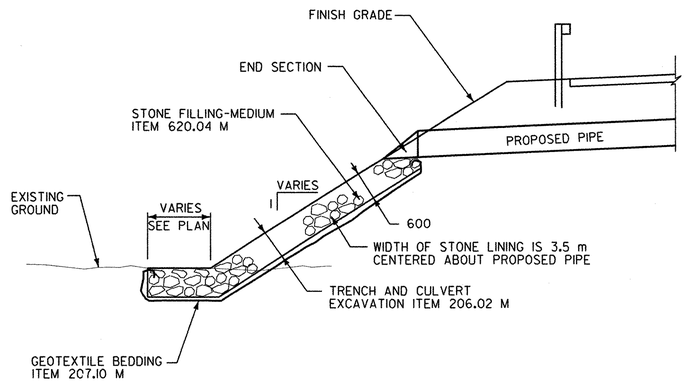


PLAN

STONE-LINED APRON DETAIL

N.T.S.

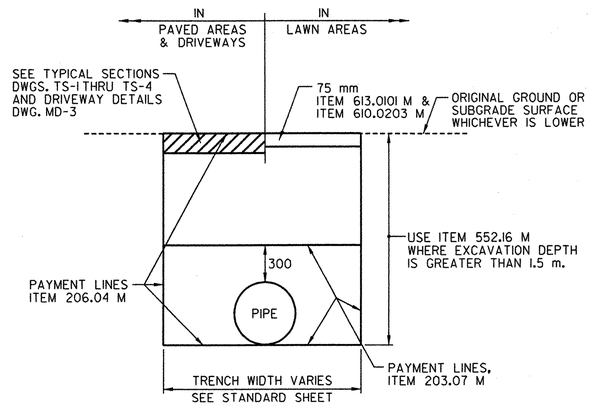
(SEE DRAINAGE TABLE, DWG. DT-1 FOR LOCATIONS)



STONE-LINED SLOPE DETAIL

N.T.S.

(SEE DRAINAGE TABLE, DWG. DT-1 FOR LOCATIONS)



DRAINAGE PIPE INSTALLATION DETAIL

N.T.S.

NOTE:
ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

DRAINAGE DETAILS

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NYDD-1.dgn

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 39 OF 92 DWG NO. DD-2

DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH
DRAFTED BY C. KAHLBAUGH CHECKED BY I. BURTNICK DATE 2/04
CHECKED BY D. GOZALKOWSKI
IN CHARGE OF T. KARIS

FILE NAME = u:\5116\vgdot\contract1\vgdd-1.dgn
DATE/TIME = 2/23/2004 2225
USER =

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	40	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

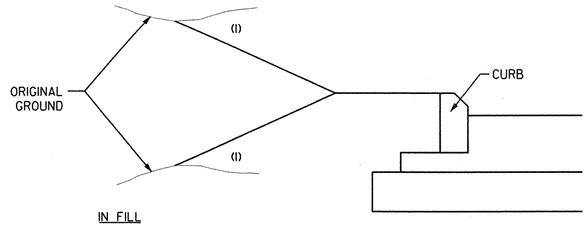
TABLE OF SLOPES – S.H. 1426 /S.H. 98-2

LEFT			STATION	RIGHT		
3	2	1		1	2	3
-	-	1:4	42+880 - 42+900	1:4	-	-
DRIVE			42+920 - 42+940	1:2	-	-
-	-	1:12	42+960	1:2	-	-
-	-	1:18	42+980	1:2	-	-
-	-	-	43+000	1:2	-	-
-	-	1:3	43+020	1:6	-	-
-	-	1:3	43+040	DRIVE		
-	-	1:2	43+060	DRIVE		
-	-	1:4	43+080	1:6	-	-
1:2	1:4	1:4	43+100	1:4	-	-
1:2	1:4	1:4	43+120	1:6	-	-
1:2	1:4	1:4	43+140	1:4	-	-
1:2	1:4	1:4	43+160	1:6	-	-
1:2	1:4	1:4	43+180 - 43+220	1:4	1:2	-
1:2	1:4	1:4	43+240 - 43+260	S.H. 1426 (STEM)		
1:2	1:4	1:4	43+280	1:4	1:2	-
EXIST	EXIST	EXIST	43+300 - 43+320	1:4	1:2	-

TABLE OF SLOPES – S.H. 1426 (STEM SECTION)

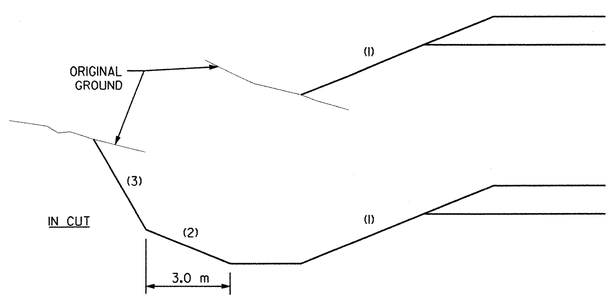
LEFT			STATION	RIGHT		
3	2	1		1	2	3
-	-	1:4	143+233.243 - 143+260	1:4	1:2	-
-	1:2	1:4	143+280	1:3	-	-
-	1:2	1:4	143+300	1:2	-	-
-	-	1:3	143+320	1:2	-	-
-	-	1:2	143+340 - 143+490	1:2	-	-

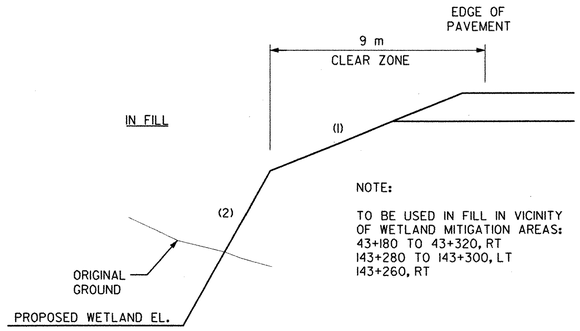
IN CUT



IN FILL

IN FILL





NOTE:

TO BE USED IN FILL IN VICINITY OF WETLAND MITIGATION AREAS:
43+180 TO 43+320, RT
143+280 TO 143+300, LT
143+260, RT

SLOPE DESIGNATIONS

N.T.S.
(LEFT SIDE SHOWN, RIGHT SIDE SIMILAR)

MISCELLANEOUS TABLES

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NYT-3.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 40 OF 92 DWG NO. MT-1

IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY T. BURTNICK DATE 2/04
ESTIMATED BY D. EMERICH CHECKED BY

FILE NAME = p:\515\projdot\contract\nyt-3.dgn
DATE/TIME = 2/23/2004
USER = 2225

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	41	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

ITEM 609.0405 M - CAST-IN-PLACE CONCRETE CURB TYPE M100 (m)

LOCATION	OFFSET	QUANTITY
S.H. 1426 / S.H. 98-2		
42+957.0 TO 42+958.0	LT	I
42+959.0 TO 43+070.0	LT	III
TOTAL QUANTITY		112

ITEM 646.0601 M - DELINEATOR, SINGLE UNIT, ONE WAY ON POST (EA)

LOCATION	OFFSET	QUANTITY
S.H. 1426 / S.H. 98-2		
42+900	LT	I
42+907	RT	I
42+941	RT	I
42+975	LT & RT	2
43+000	LT & RT	2
43+060	LT	I
43+095	LT & RT	2
43+130	LT & RT	2
43+165	LT & RT	2
43+200	LT & RT	2
43+285	LT & RT	2
43+320	LT & RT	2
43+355	LT & RT	2
43+415	LT & RT	2
43+475	LT & RT	2
43+535	LT & RT	2
43+595	LT & RT	2
43+655	LT & RT	2
43+700	LT & RT	2
43+790	LT & RT	2
43+835	LT & RT	2
43+880	LT & RT	2
43+925	LT & RT	2
43+970	LT & RT	2
44+015	LT & RT	2
44+060	LT & RT	2
44+105	LT & RT	2
44+150	LT & RT	2
44+210	LT & RT	2
44+270	LT & RT	2
44+330	LT & RT	2
44+390	LT & RT	2
44+450	LT & RT	2
44+510	LT & RT	2
44+555	LT & RT	2
44+600	LT & RT	2
44+645	LT & RT	2
44+690	LT & RT	2
44+735	LT & RT	2
44+780	LT & RT	2
44+825	LT & RT	2
44+870	LT & RT	2
44+915	LT & RT	2
44+960	LT & RT	2
45+020	LT & RT	2
45+080	LT & RT	2
45+140	LT & RT	2
S.H. 1426 (STEM SECTION)		
143+270	LT	I
143+290	LT	I
143+310	LT	I
143+330	LT	I
143+350	LT	I
143+370	LT	I
143+415	LT & RT	2
143+475	LT & RT	2
TOTAL QUANTITY		~~100~~ 98

ITEM 646.0602 M - DELINEATOR, SINGLE UNIT, BACK TO BACK ON POST (EA)

LOCATION	OFFSET	QUANTITY
S.H. 1426 (STEM SECTION)		
143+238	RT	I
143+270	RT	I
143+290	RT	I
143+310	RT	I
143+330	RT	I
143+350	RT	I
143+365	RT	I
CAHILL DRIVEWAY		
CA0+030.6	RT	I
CA0+033.9	RT	I
CA0+037.0	RT	I
CA0+039.3	RT	I
CA0+040.9	RT	I
CA0+042.0	RT	I
CA0+043.0	RT	I
CA0+044.0	RT	I
CA0+027.4	LT	I
CA0+030.6	LT	I
CA0+032.9	LT	I
CA0+034.2	LT	I
CA0+034.4	LT	I
CA0+034.1	LT	I
CA0+033.7	LT	I
CA0+033.4	LT	I
TOTAL QUANTITY		23

ITEM 646.0604 M - DELINEATOR, SINGLE UNIT, THREE WAY ON POST (EA)

LOCATION	OFFSET	QUANTITY
S.H. 1426 (STEM SECTION)		
143+265	LT	I
143+268	LT	I
TOTAL QUANTITY		2

ITEM 646.0603 M - DELINEATOR, SINGLE UNIT, TWO WAY ON POST (EA)

LOCATION	OFFSET	QUANTITY
S.H. 1426 / S.H. 98-2		
43+243	LT	I
43+251	LT	I
43+259	LT	I
S.H. 1426 (STEM SECTION)		
143+245	RT	I
143+253	RT	I
TOTAL QUANTITY		5

ITEM 646.0701 M - REFERENCE MARKER, 1.2 m MOUNTING HEIGHT (EA)

LOCATION	OFFSET	QUANTITY
S.H. 1426 / S.H. 98-2		
~~43+039~~	~~LT~~	~~I~~
~~43+446~~	~~LT~~	~~I~~
43+607	RT	I
43+768	LT	I
~~43+929~~	~~RT~~	~~I~~
44+090	LT	I
~~44+251~~	~~RT~~	~~I~~
44+412	LT	I
44+573	RT	I
~~44+734~~	LT	I
~~44+895~~	RT	I
S.H. 1426 (STEM SECTION)		
~~143+360~~	~~LT~~	~~I~~
143+521	RT	I
TOTAL QUANTITY		~~13~~ 7

ITEM 646.0705 M - REFERENCE MARKER, FURNISH PANEL ONLY (EA)

LOCATION	OFFSET	QUANTITY
S.H. 1426 / S.H. 98-2		
43+200	RT	I
43+285	RT	I
45+060	LT	I
TOTAL QUANTITY		3

ITEM 646.0801 M - SNOWPLOWING MARKER, SINGLE UNIT (EA)

LOCATION	OFFSET	QUANTITY
S.H. 1426 / S.H. 98-2		
43+024	RT	I
43+625	RT	I
43+862	LT	I
44+072	RT	I
44+419	RT	I
S.H. 1426 (STEM SECTION)		
143+274	LT	I
TOTAL QUANTITY		6

ITEM 646.0802 M - SNOWPLOWING MARKER, DOUBLE UNIT (EA)

LOCATION	OFFSET	QUANTITY
S.H. 1426 / S.H. 98-2		
42+913	RT	I
43+390	RT	I
43+852	RT	I
44+217	RT	I
44+860	LT	I
S.H. 1426 (STEM SECTION)		
143+260	RT	I
143+660	LT	I
TOTAL QUANTITY		7

ITEM 646.0803 M - SUPPLEMENTARY SNOWPLOWING MARKER (EA)

LOCATION	OFFSET	QUANTITY
S.H. 1426 / S.H. 98-2		
43+510	RT	I
44+020	LT	I
44+160	LT	I
44+340	LT	I
44+500	LT	I
44+680	LT	I
S.H. 1426 (STEM SECTION)		
143+430	LT & RT	2
TOTAL QUANTITY		8

ITEM 607.19 M - RIGHT OF WAY FENCING (m)

BASELINE STATION	MEASURED LENGTH (m)	PAYMENT LENGTH (m)
STA. 10+608.2, 16.4 m ± RT TO STA. 10+636.5, 17.0 m ± RT	28.3	40.3
STA. 10+608.6, 25.6 m± LT TO STA. 10+625.4, 39.9 m± LT	22.0	34.0
STA. 10+625.4, 39.9 m ± LT TO STA. 10+731.0, 26.3 m ± LT	73.5	79.5
STA. 10+636.5, 17.0 m± RT TO STA. 10+673.5, 5.7 m ± RT	43.0	49.0
STA. 10+673.5, 17.0 m ± RT TO STA. 10+698.3, 25.9 m ± RT	32.0	38.0
STA. 10+698.3, 25.9 m± RT TO STA. 10+683.1, 21.2 m ± RT	16.0	22.0
STA. 10+683.1, 21.2 m ± RT TO STA. 10+750.9, 75.2 m ± RT	86.8	92.8
STA. 10+731.0, 26.3 m ±LT TO STA. 10+805.2, 14.7 m ±LT	69.1	75.1
STA. 10+750.9, 75.2 m ± RT TO *STA. 10+801.4, 135.8 m ± RT	78.8	84.8
*STA. 10+801.4, 135.8 m ± RT TO STA. 10+824.7, 143.9 m ± RT	26.4	32.4
STA. 10+807.7, 124.4 m± RT TO STA. 10+844.4, 89.3 m ± RT	50.6	56.6
TOTAL	526.5	604.5

*STATION LOCATED BY EXTENDING BACK TANGENT AHEAD

MISCELLANEOUS TABLES

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NYT-2.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 41 OF 92 DWG NO. MT-2

IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. EMERICH DRAFTED BY D. GOZALKOWSKI CHECKED BY C. KAHLBAUGH ESTIMATED BY D. GOZALKOWSKI CHECKED BY T. BURTNICK DATE 2/04

FILE NAME = u:\5116\nydot\contract1\nyt-2.dgn
DATE/TIME = 2/25/2004
USER = 2225

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	42	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

GUIDE RAIL TABLE

LOCATION	POST SPACING	PAYMENT FACTOR	ITEMS								
			606.10 M	606.100001 M	606.1201 M	606.1202 M	606.1203 M	606.61 M	606.70 M	606.79 M	606.7910 M
			m	m	EA	EA	EA	m	m	EA	EA
S.H. 1426											
42+905.0 TO 42+920.0, RT							1				
42+920.0 TO 43+034.0, RT	1.83 m	1.0	~~114.0~~								
43+034.0, TO CA0+017.8, RT	1.83 m	1.0		20.1							
CA0+017.8 TO CA0+026.0, RT					1	1					
			120.7								
42+943.0, RT										1	
42+943.0 TO 43+015.0, RT									72		
43+015.0, RT								51.2		1	
			257.8								
43+165.0, RT											1
43+165.0 TO 43+~~215.0, RT~~ 340 RT								~~60~~			
43+215.0, RT						1					~~1~~
S.H. 1426 (STEM SECTION)											
CA0+024.0 TO CA0+026.0, RT					1						
CA0+026.0 TO 43+077.2, RT	1.83 m	1.0		26.2							
43+077.2 TO 43+215.8, RT	1.83 m	1.0	138.6								
43+215.8 TO 143+255.2, RT	1.83 m	1.0		28.3							
143+255.2 TO 143+354.6, RT	1.83 m	1.0	99.4								
143+354.6 TO 143+362.8, RT						1					
143+386.0 TO 143+390.0, RT						1					
143+390.0 TO 143+504.0, RT	1.83 m	1.0	109.8								
143+266.4 TO 143+274.0, LT							1				
143+274.0 TO 143+661.6, LT	1.83 m	1.0	372.8								
143+661.6 TO 143+669.2, LT							1				
143+263.0, RT											1
143+263.0 TO 143+504, RT								241			
	TOTAL		~~834.6~~ 743	~~74.6~~ 183	2	~~2~~ 4	3	301	72	2	~~3~~ 1

GUIDE RAIL ITEMS

ITEM NO.	DESCRIPTION
606.10 M	BOX BEAM GUIDE RAILING (m)
606.100001 M	BOX BEAM GUIDE RAILING (SHOP CURVED) (m)
606.1201 M	BOX BEAM GUIDE RAILING END ASSEMBLY TYPE I (EA)
606.1202 M	BOX BEAM GUIDE RAILING END ASSEMBLY TYPE II (EA)
606.1203 M	BOX BEAM GUIDE RAILING END ASSEMBLY TYPE III (EA)
606.61 M	REMOVING AND STORING CORRUGATED BEAM GUIDE RAILING (m)
606.70 M	REMOVING AND DISPOSING CABLE GUIDE RAILING (m)
606.79 M	REMOVING AND DISPOSING ANCHORAGE UNITS FOR CABLE GUIDE RAILING (EA)
606.7910 M	REMOVING AND DISPOSING ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING AND MEDIAN BARRIER (EA)

GUIDE RAIL TABLES

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NYT-1.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 42 OF 92 DWG NO. GT-1

DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY T. BURTNICK DATE 2/04
ESTIMATED BY D. EMERICH
IN CHARGE OF T. KARIS

FILE NAME = u:\5116\nysdot\contract1\nyt-1.dgn
DATE/TIME = 2/23/2004
USER = 2225

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	0146001	43	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

PROPOSED STORM SEWER

DR. No.	LOCATION INLET TO OUTLET	PROP. TF ELEV. (EXIST.)	PROP. FRAME TYPE	PROP. STR. TYPE	PROP. STR. HEIGHT	INVERT (EXIST.)		PROPOSED WORK	203.07 M	206.02 M	207.10 M	552.16 M	603.17814 M	603.9815 M	603.9830 M	604.301873 M	604.302016 M	620.03 M	620.04 M	655.0201 M	655.0501 M
					m	IN	OUT		m^3	m^3	m^2	m^2	EA	m	m	EA	EA	m^3	m^3	EA	EA
1	42+958.5, 10.5 m LT TO 5.0 m LT	193.000	16	T	2.2	191.15	191.10	INSTALL TYPE T STR. AND 5.0 m OF 750 mm SICPP. OUTLET TO DR-2. CUT AND TIE EXIST. 300 mm CPP INTO PROPOSED STRUCTURE.	15.7	26.5		14.2			5.0		1			1	
2	42+958.5, 5.0 m LT TO 6.0 m RT	193.125	F3	R	2.1	191.10	190.70	INSTALL TYPE R STR. AND 11.0 m OF 750 mm SICPP. OUTLET TO DR-4.	23.3	20.1					11.0	1					1
3	42+905 TO 42+958.5, RT	191.250	16	T	1.8	189.80	189.30	INSTALL TYPE T STR. AND 54.0 m OF 375 mm SICPP. OUTLET TO DR-4.	43.3	71.4				54.0			1			1	
4	42+958.5, 6.0 m RT TO 42+958.5, 13.0 m RT	192.535	16	T	3.5	189.30	189.25	INSTALL TYPE T STR., 7.0 m OF 750 mm SICPP. AND 900 mm END SECTION. OUTLET IN SLOPE. INSTALL STONE- LINED SLOPE AT OUTLET, SEE DETAIL DWG. DD-2.	13.5	53.2	51.2	41.3	1		7.0		1		21.0	1	
5	CA0+032.5, 19.0 m LT TO 16.0 m RT	-	-	-	-	191.10	188.00	SEE DRIVEWAY ⑤ PLAN, DWG. DW-2 FOR PIPE LAYOUT. INSTALL 35.0 m OF 750 mm SICPP AND 900 mm END SECTION AT EACH END. OUTLET AT TOE OF SLOPE. INSTALL STONE APRON AT INLET AND STONE-LINED SLOPE AT OUTLET. SEE DETAILS, DWG. DD-2.	67.7	13.5	28.4		2		35.0			3.1	5.4		
6	43+120.0, 14.0 m LT TO 43+104.0, 18.0 m RT	-	-	-	-	192.60	192.30	INSTALL 36.0 m OF 750 mm SICPP AND 900 mm END SECTION AT EACH END. OUTLET IN DITCH. INSTALL STONE APRON AT INLET AND OUTLET, SEE DETAIL, DWG. DD-2.	69.7	40.7	26.5		2		36.0			7.8			
							TOTAL		233.2	225.4	106.1	55.5	5	54.0	94.0	1	3	10.9	26.4	3	1

ITEM NO.	DESCRIPTION	UNIT
203.07 M	SELECT GRANULAR FILL	m^3
206.02 M	TRENCH AND CULVERT EXCAVATION	m^3
207.10 M	GEOTEXTILE BEDDING	m^2
552.16 M	EXCAVATION PROTECTION SYSTEM	m^2
603.171814 M	GALVANIZED STEEL END SECTION PIPE (68 x 13) 900 mm DIAMETER	EA
603.9815 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT & STORM DRAIN PIPE, 375 mm DIAMETER	m
603.9830 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT & STORM DRAIN PIPE, 750 mm DIAMETER	m
604.301873 M	RECTANGULAR DRAINAGE STRUCTURE TYPE R FOR CAST IRON F3 FRAME	EA
604.302016 M	RECTANGULAR DRAINAGE STRUCTURE TYPE T FOR #16 WELDED FRAME	EA
620.03 M	STONE FILLING (LIGHT)	m^3
620.04 M	STONE FILLING (MEDIUM)	m^3
655.0201 M	FRAMES AND GRATES (FABRICATED)	EA
655.0501 M	STEEL FABRICATED GRATES IN CAST IRON FRAMES	EA

EXISTING STORM SEWER TO BE REMOVED

R. No.	LOCATION INLET TO OUTLET	EXIST. INVERT		PROPOSED WORK	203.07 M	206.02 M
		IN	OUT		m^3	m^3
1	42+958.5, 7.0 m LT TO 10.0 m RT	192.50±	188.50±	REMOVE EXISTING 600 mm X 600 mm BOX CULVERT	-	-
2	43+107.0, HCL TO 12.5 m RT	193.50±	193.00±	REMOVE EXISTING CULVERT	21.6	58.0
				TOTAL	21.6	58.0

GENERAL DRAINAGE NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATIONS AND ELEVATIONS OF THE EXISTING DRAINAGE SYSTEM PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR SHALL CALL "DIG SAFE NY" AT 1-800-962-7962 AT LEAST 48 HOURS PRIOR TO EXCAVATION OPERATIONS. THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO AVOID DAMAGING ANY UNDERGROUND UTILITY LINES WHICH MAY BE ENCOUNTERED DURING THE INSTALLATION OF THE NEW STORM SEWER SYSTEM. ANY DAMAGE TO THESE FACILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

2. DRAINAGE STRUCTURE'S OFFSETS AND LENGTHS OF PIPE SHOWN IN THE DRAINAGE TABLES ARE NOMINAL DIMENSIONS. EXACT DIMENSIONS MUST BE DETERMINED BY THE CONTRACTOR IN THE FIELD.

3. AN EXCAVATION PROTECTION SYSTEM (EPS) SHALL BE USED FOR ALL TRENCH EXCAVATIONS DEEPER THAN 1.52 m. PAYMENT FOR THE EPS SHALL BE MADE UNDER ITEM 552.16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SUPPORT SYSTEM THAT WILL NOT ONLY PROTECT WORKERS WITHIN THE EXCAVATION, BUT ALSO SUPPORT ANY AND ALL EXISTING AND NEW UTILITIES AND FACILITIES ENCOUNTERED DURING TRENCHING OPERATIONS.

4. ALL SICPP PIPE ENDS SHALL PROTRUDE 50 mm INTO THE DRAINAGE STRUCTURE TO PROVIDE A BATTERED GROUT SEAL TO BOTH THE INSIDE AND OUTSIDE OF THE STRUCTURE.

5. EXCAVATION OF THE EXISTING CULVERT PIPES TO BE REMOVED SHALL BE PAID UNDER ITEM 206.02 M, TRENCH AND CULVERT EXCAVATION (SEE DETAIL, DWG. DD-2). IF THE EXCAVATION LIMITS FOR THE INSTALLATION OF A NEW PIPE OVERLAPS THE EXCAVATION LIMITS FOR PIPE REMOVALS, PAYMENT FOR EXCAVATION SHALL BE PAID ONLY FOR THE NEW PIPE INSTALLATION.

6. SEE DWG. DD-1 FOR EDGEDRAIN DETAILS, OUTLET LOCATIONS AND TREATMENTS.

7. ALL DRAINAGE PIPES CARRYING INTERMITTENT DRAINAGE COURSES SHALL BE CONSTRUCTED DURING DRY CONDITIONS, AS DIRECTED BY THE RESIDENT ENGINEER.

8. ITEM 203.1770 M CLEANING CULVERTS WITH SPAN OF 1300 MILLIMETERS OR LESS SHALL BE USED FOR CLEANING ALL EXISTING AND PREVIOUSLY INSTALLED CULVERTS WITHIN THE CONTRACT LIMITS AS DIRECTED BY THE RESIDENT ENGINEER.

DRAINAGE TABLES

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NYDT-1.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 43 OF 92 DWG. NO. DT-1

IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY C. KAHLBAUGH DRAFTED BY D. GOZALKOWSKI CHECKED BY I. BURTNICK DATE 2/04

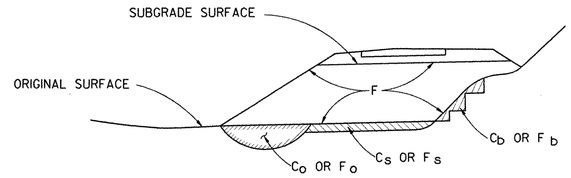
FILE NAME = u:\5116\ngdot\contract1\ngdt-1.dgn
DATE/TIME = 2/23/2004
USER = 2225

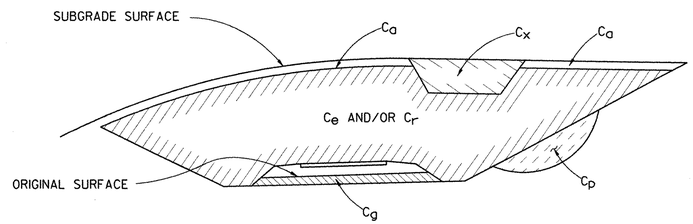
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	44	92

BENNINGTON CONNECTOR S.H. 98-2
P.I.N. 1306.60
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426
RENSSELAER COUNTY

SUMMARY OF EARTHWORK (ITEMS 203.02 M & 203.03 M) (m^3)					
SOURCE	EXCAVATION			203.02 M	EMBANKMENT 203.03 M
	T_e	C_r ✳	T_u	C_T	F_T
SUBTOTAL, DWG. ES-2	16974	784	1457	19328	17550
TOTALS	16974	784	1457	19328	17550

✳ SEE NOTE 2, THIS SHEET.





NOTES:

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT CONDITIONS AND QUANTITIES AS SHOWN ON THESE TABLES ARE ESTIMATED, AND ARE FOR THE PURPOSE OF PREPARING AN ESTIMATE. IN ANY EVENT, THESE CONDITIONS AND QUANTITIES ARE NOT TO BE DEEMED OR CONSIDERED BY THE CONTRACTOR AS A WARRANTY OR REPRESENTATION BY THE STATE OF ACTUAL FIELD CONDITIONS TO BE ENCOUNTERED OR EXACT QUANTITIES OF WORK TO BE PERFORMED.
2. EXISTING PAVEMENT TO BE REMOVED IS LABELED AS Cr FOR THE PURPOSES OF ACCOUNTING.

C_e - PORTION OF CUT ASSUMED TO BE EARTH SUITABLE FOR EMBANKMENT CONSTRUCTION, EXCLUDING C_p & C_g.
C_r - PORTION OF CUT ASSUMED TO BE ROCK, INCLUDING C_g IF APPLICABLE.
C_p - EXCAVATION FROM CUT SLOPE NECESSARY TO PLACE SLOPE PROTECTION.
C_b - EXCAVATION FOR REQUIRED BENCHING, (BOTH LONGITUDINAL AND TRANSVERSE).
C_g - EXCAVATION FOR SUBGRADE IMPROVEMENT.
T_e - (C_e+ C_p+ C_b+ C_g) TOTAL EARTH EXCAVATION ASSUMED SUITABLE FOR EMBANKMENT CONSTRUCTION.
C_o - EXCAVATION OF UNSUITABLE MATERIAL BENEATH EMBANKMENT : SWAMP OR DUMP.
C_a - EXCAVATION OF TOPSOIL (UNSUITABLE MATERIAL) IN CUT. ASSUME 75 mm.
C_s - EXCAVATION OF TOPSOIL (UNSUITABLE MATERIAL) UNDER EMBANKMENT.
C_x - EXCAVATION OF UNSUITABLE MATERIAL IN CUT : SWAMP OR DUMP.
T_u - (C_o+ C_a+ C_s+ C_x) TOTAL EXCAVATION ASSUMED UNSUITABLE FOR EMBANKMENT CONSTRUCTION.
C_T - (T_e+ T_u+ C_r) TOTAL EXCAVATION.
F_b - FILL REQUIRED TO REPLACE BENCHES.
F_o - FILL REQUIRED TO REPLACE UNSUITABLE MATERIAL BENEATH EMBANKMENTS.
F_s - FILL REQUIRED TO REPLACE TOPSOIL REMOVED BENEATH EMBANKMENTS.
F - FILL REQUIRED TO COMPLETE EMBANKMENT TO SUBGRADE SURFACE & SIDE SLOPES AFTER FOUNDATION IS PREPARED.
F_T - (F_b+ F_o+ F_s+ F) TOTAL FILL REQUIRED.
T_A - ($T_e f_e$+ $C_r f_r$) THE VOLUME WHICH THE SUITABLE EXCAVATED MATERIAL COULD OCCUPY IN EMBANKMENT.
f_e - SHRINKAGE FACTOR FOR EARTH.
f_r - SHRINKAGE FACTOR FOR ROCK.

EARTHWORK SUMMARY SHEET

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04
DESIGN FILE NO. NYESI.DGN
PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1
PROJ. NO. P.I.N. 1306.60
SHEET 44 OF 92 DWG NO. ES-1

FILE NAME = o:\esi\nydot\contract1\nyesi.dgn
DATE/TIME = 2/23/2004
USER = 2225
IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY D. GOZALKOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY T. BURTNICK DATE 2/04

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	45	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

SUBDIVISION NO.	LOCATION (Station to Station)	SUITABLE EXCAVATION						UNSUITABLE EXCAVATION					TOTAL EXCAVATION	EMBANKMENT				TOTAL EMBANKMENT
		c_r*	c_e	c_p	c_b	c_g	T_e	c_o	c_a	c_s	c_x	T_u	c_T	F_b	F_o	F_s	F	F_T
	S.H. 1426																	
1	42+880 TO 42+980	293	1181		157		1338	0	44	28		72	1703	157	0	28	647	832
2	42+980 TO 43+140	357	4198		45		4243	0	231	12		243	4843	45	0	12	140	197
3	43+140 TO 43+233.243	13	6560		0		6560	0	223	95		318	6891	0	0	95	918	1013
4	143+233.243 TO 143+380	0	0		0		0	220	0	182		402	402	0	220	182	11775	12177
5	143+380 TO 143+490	121	456		0		456	116	32	47		195	772	0	116	47	1648	1811
	S.H. 98-2																	
6	43+233.243 TO 43+275	0	4377		0		4377	0	116	54		170	4547	0	0	54	730	784
	DRIVEWAY 5																	
7	CA0+000 TO CA0+045	0	113		0		113	0	0	57		57	170	0	0	57	679	736
	TOTALS, (m^3)	784	16885	0	202	0	17087	336	646	475	0	1457	19328	202	336	475	16537	17550

* SEE NOTE 2, DWG. ES-1

EARTHWORK SUMMARY SHEET

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NYES2.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 45 OF 92 DWG NO. ES-2

IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY D. GOZALKOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY T. BURTNICK DATE 2/04

FILE NAME = u:\5116\nydot\contract1\nyes2.dgn
DATE/TIME = 2/23/2004
USER = 2225

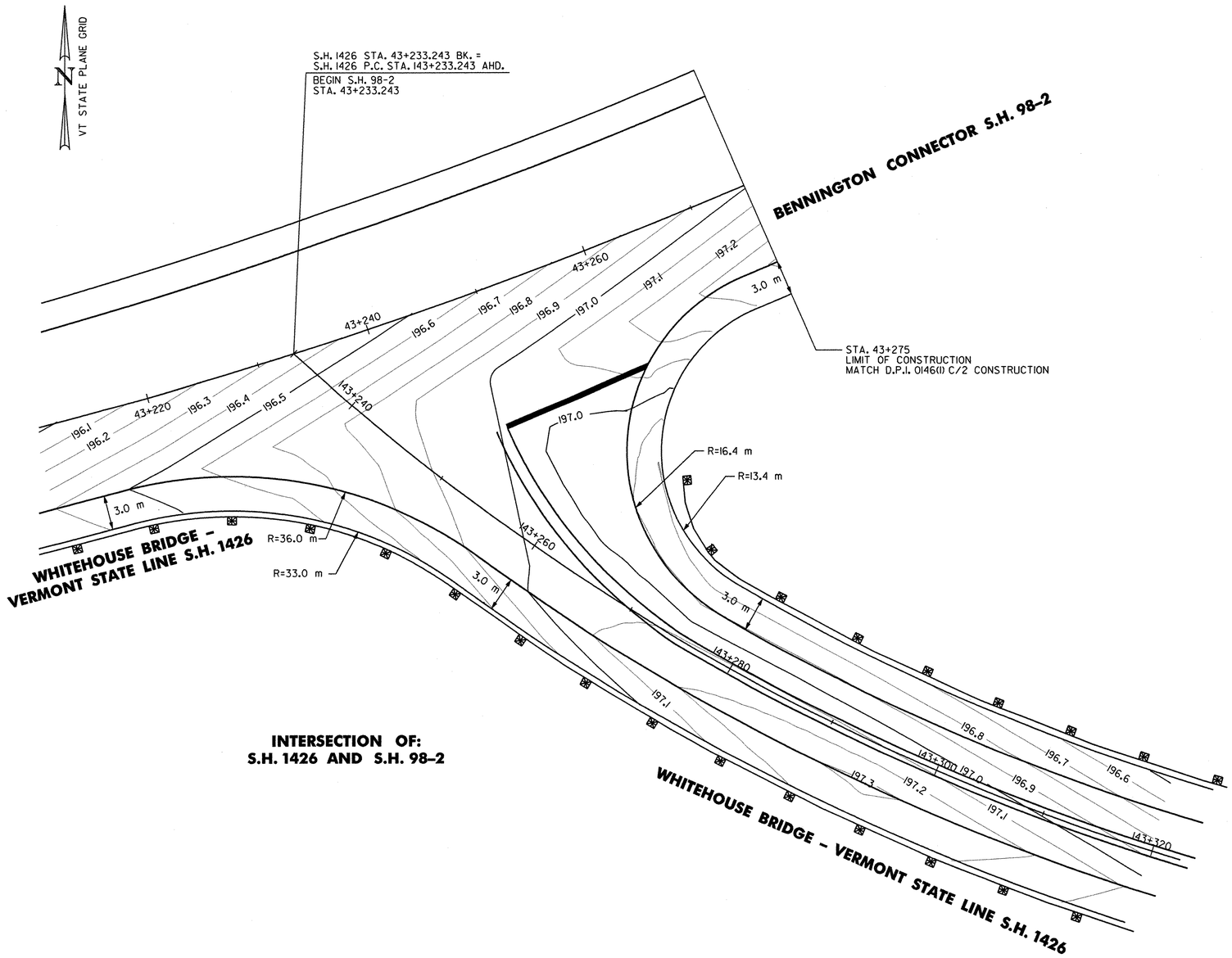
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	46	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY



4 0 4 m
1: 200

INTERSECTION GRADING PLAN

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NYSGP-1.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 46 OF 92 DWG NO. GP-1

IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY D. GOZALKOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY T. BURTNICK DATE 2/04

FILE NAME = u:\s1i5\engdat\contract1\nysgp-1.dgn
DATE/TIME = 2/23/2004
USER = 2225

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	47	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

GENERAL NOTES FOR TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THROUGHOUT THE DURATION OF THE CONTRACT IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL WATER COURSES FROM WATER BORNE SEDIMENT OR POLLUTANTS ORIGINATING FROM ANY WORK DONE, ON, OR IN SUPPORT OF THIS PROJECT.
THE POLLUTION CONTROL NOTES AND DETAILS SHOWN IN THESE DRAWINGS AND NYSDOT STANDARD SHEETS ARE NOT INTENDED TO BE ALL INCLUSIVE BUT TO SERVE AS A GUIDELINE FOR THE DEVELOPMENT OF THE CONTRACTOR'S EROSION CONTROL SCHEME.

THE PURPOSE OF TEMPORARY SOIL EROSION AND SEDIMENT CONTROL IS TO PROTECT ABUTTING PROPERTY, WATER COURSES, PONDS, DITCHES, ETC., FROM THE DETRIMENTAL EFFECTS OF SOIL EROSION AND/OR SEDIMENT ORIGINATING FROM WITHIN THE WORK LIMITS AND/OR FROM AREAS SPECIFICALLY DESIGNATED FOR CONTRACTUAL OPERATIONS BY THE STATE. PAYMENT WILL BE MADE UNDER ITEM 209.XX M FOR TEMPORARY CONTROL WORK DONE BY THE CONTRACTOR IN ACCORDANCE WITH THE PRE-APPROVED SCHEME, OR AS DIRECTED BY THE RESIDENT ENGINEER, TO PROTECT PRIVATE PROPERTY, WATER COURSES, PONDS, DITCHES, ETC. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT HIS/HER OWN WORK AT NO ADDITIONAL COST TO THE STATE, IN ACCORDANCE WITH THE PROVISIONS OF SECTIONS 203, 206, AND/OR 209 OF THE NYSDOT STANDARD SPECIFICATIONS, JANUARY 2, 2002.

1. INSPECTION OF SOIL EROSION AND POLLUTION CONTROL MEASURES SHALL BE DONE ON A DAILY BASIS AND AFTER EVERY STORM OF 12 mm OR GREATER OR AS DIRECTED BY THE RESIDENT ENGINEER. REPAIRS SHALL BE MADE AS NEEDED AND SEDIMENT SHALL BE REMOVED WHEN THE STORAGE VOLUME OF AN EROSION CONTROL MEASURE IS APPROACHING ONE HALF OF ITS INTENDED CAPACITY OR AS DIRECTED BY THE RESIDENT ENGINEER.

2. IMMEDIATELY UPON COMPLETION OF EXCAVATION OR EMBANKMENT, THE CONTRACTOR SHALL INSTALL THE APPROPRIATE FINAL DITCH LINING AS SHOWN IN THE CONTRACT DOCUMENTS AND/OR PLACE TEMPORARY DITCH CHECKS IN ALL ROADWAY AND OUTLET DITCHES AS DIRECTED BY THE RESIDENT ENGINEER.

3. A TEMPORARY LINING MATERIAL MAY BE REQUIRED WHERE THE CONTRACTOR PROVIDES TEMPORARY CHANNELS TO KEEP CONTRACTOR'S WORK SITES FREE FROM WATER DURING CONSTRUCTION. OR AS DIRECTED BY THE RESIDENT ENGINEER. NO DIRECT PAYMENT WILL BE MADE FOR THIS WORK; THE COST IS TO BE INCLUDED IN THE PRICE BID FOR THE OTHER ITEMS OF THE CONTRACT.

4. THE CONTRACTOR SHALL GRADE AND TRIM ALL SLOPES AS THE EXCAVATION PROGRESSES AND SEED ALL SLOPES AS DIRECTED BY THE RESIDENT ENGINEER, AND AS REQUIRED BY SECTION 203 OF THE NYSDOT STANDARD SPECIFICATIONS JANUARY 2, 2002.

5. ANY EXCAVATED SOIL SHALL BE SUITABLY RETAINED SO THAT THERE IS NO TURBID RUNOFF DISCHARGE EITHER DIRECTLY OR INDIRECTLY INTO FWWHF-3 OR BROWNS BROOK.

6. ALL UNUSED, EXCAVATED MATERIALS AND/OR CONSTRUCTION DEBRIS, SHALL BE IMMEDIATELY REMOVED UPON COMPLETION OF CONSTRUCTION.

7. THE CONTRACTOR SHALL HAVE A HYDROSEEDER AND/OR A MULCHING MACHINE AVAILABLE ON THE PROJECT OR AVAILABLE AT ONE WEEK'S NOTICE (MAXIMUM) UNTIL THE PERMANENT SEEDING IS COMPLETED.

8. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO PREVENT ANY DAMAGE TO THE STREAM FROM POLLUTION BY DEBRIS, SEDIMENT, OR OTHER FOREIGN MATERIAL, OR FROM MANIPULATION, OF EQUIPMENT AND/OR MATERIALS IN OR NEAR THE STREAM. THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO THE STREAM ANY WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL OR OTHER IMPURITIES. IF THE CONTRACTOR USES WATER FROM THE STREAM, THE CONTRACTOR SHALL CONSTRUCT AN INTAKE OR TEMPORARY DAM TO PROTECT AND MAINTAIN STREAM WATER QUALITY.

9. DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO THE WATERS OF THE UNITED STATES, NOR SHALL WASHING FROM CONCRETE TRUCKS, MIXERS OR OTHER DEVICES BE ALLOWED TO ENTER ANY WETLANDS OR WATERS.

10. THE SCHEME PROPOSED BY THE CONTRACTOR TO ACCOMPLISH EROSION AND POLLUTION CONTROL SHALL BE SUBJECT TO APPROVAL BY THE RESIDENT ENGINEER.

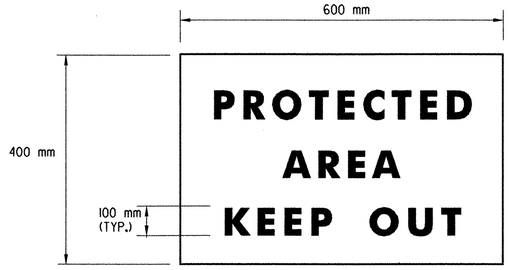
11. GRAVEL BAGS SHALL BE AS DESCRIBED IN SECTION 209-2.08 EXCEPT THAT ONLY GRAVEL FILL IS ACCEPTABLE. GRAVEL FILL SHALL BE FREE OF SILT AND GRAVEL BAGS WILL BE REMOVED IN THEIR ENTIRETY AT THE COMPLETION OF THE PROJECT.

12. STRAW BALES MAY BE USED AS A SUBSTITUTE FOR HAY BALES.

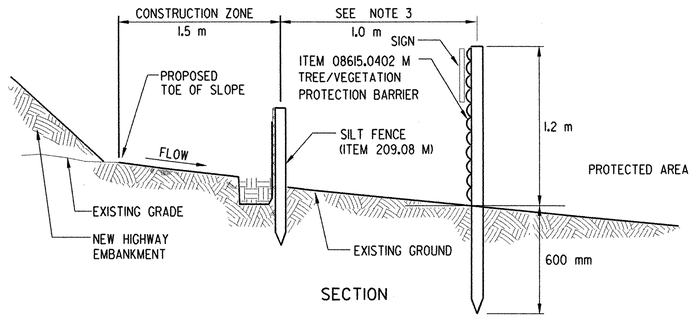
13. ITEM 08615.0402 M VEGETATION PROTECTION BARRIER: THE BARRIERS SHALL BE ERECTED PRIOR TO ANY ACTIVITY THAT WILL ALTER THE SITE SUCH AS PLACING TRAILERS, STOCK PILES, STORAGE AREAS, DEMOLITION, OR CONSTRUCTION.

14. STRAW BALE / HAY BALE, SILT FENCE AND COFFERDAMS MAY BE SUBSTITUTED WITH COMMERCIALLY AVAILABLE EROSION / SEDIMENT CONTROL DEVICES AS APPROVED IN WRITING BY THE RESIDENT ENGINEER. THE DEVICES SHALL OFFER EROSION / SEDIMENT CONTROL EQUAL OR BETTER THAN PROVIDED BY THE ITEMS THEY ARE SUBSTITUTING.

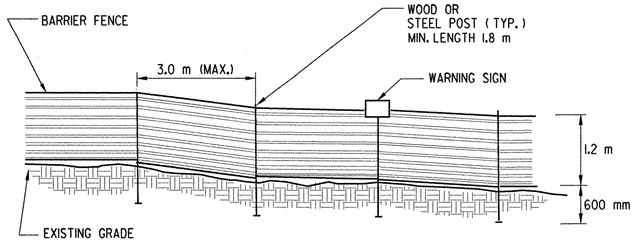
15. ITEM 209.1001 MULCH - TEMPORARY SHALL BE THE PRIMARY EROSION PREVENTION METHOD USED ON THIS PROJECT AS SPECIFIED IN THE CONTRACT DOCUMENTS AND AS DIRECTED BY THE RESIDENT ENGINEER. AN ESTIMATED QUANTITY OF 25,000 m^2 HAS BEEN INCLUDED IN THE PLANS.



WARNING SIGN DETAIL



SECTION



ELEVATION

NOTES:

1. WARNING SIGNS SHALL BE PLACED AT 30 m INTERVALS.
2. TREE/VEGETATION PROTECTION BARRIER SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER PRIOR TO BEGINNING ANY WORK IN THESE AREAS.
3. IN AREAS ADJACENT TO OR WITHIN A WETLAND THE RESIDENT ENGINEER MAY REQUIRE THE TREE/VEGETATION PROTECTION BARRIER TO BE PLACED IN COMBINATION WITH THE SILT FENCE.
4. THE RESIDENT ENGINEER MAY EXTEND THE DISTANCE BETWEEN THE PROPOSED TOE-OF-SLOPE AND SILT FENCE PROVIDING IT DOES NOT TAKE PLACE IN A WETLAND/WATERBODY AND DOES NOT REQUIRE THE REMOVAL OF EXISTING VEGETATION.
5. THE CONTRACTOR SHALL INSTALL AT THE BEGINNING OF THE CONTRACT, AND MAINTAIN THROUGHOUT ITS DURATION, THE TREE/VEGETATION PROTECTION BARRIER AROUND THE EXISTING WETLAND AREAS/STREAM COURSE AREAS AS SHOWN. THE CONTRACTOR SHALL NOT DISTURB EXISTING WETLAND AREAS/STREAM COURSE AREAS WITHIN THE FENCED AREAS.

SYMBOL:

ITEM 08615.0402 M (m)
TREE/VEGETATION PROTECTION BARRIER
N.T.S.

TEMPORARY SOIL EROSION AND SEDIMENT CONTROLS

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. EC-1.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 47 OF 92 DWG NO. EC-1

CHECKED BY D. GOZALKOWSKI — DRAFTED BY C. KAHLBAUGH — CHECKED BY I. BURTNICK — DATE 2/04
DESIGNED BY D. EMERICH — CHECKED BY D. GOZALKOWSKI — ESTIMATED BY D. EMERICH — CHECKED BY
IN CHARGE OF T. KARIS
FILE NAME = y:\511\projects\contract1\ec-1.dgn
DATE/TIME = 2/23/2004
USER = 2225

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	0146001	48	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

LEGEND

ITEM NO.	DESCRIPTION	SYMBOL
209.1105 M	CHECK DAM, PREFABRICATED - TEMPORARY	
209.1201 M	HAY/STRAWBALE (HAYBALE DIKE) - TEMPORARY	
209.1201 M	HAY/STRAWBALE (STRUCTURE INLET PROTECTION) - TEMPORARY	
209.140101 M	SEDIMENT TRAP, EARTH BERM - TEMPORARY	
209.13 M	SILT FENCE - TEMPORARY	
209.23 M	SILT FENCE FOR CULVERT INLET PROTECTION - TEMPORARY	
08615.0402 M	TREE/VEGETATION PROTECTION BARRIER	
-	WETLAND / WATERBODY IMPACT AREAS	

* SEE DWG'S. CSP-1 & CSP-2 FOR STAGING OF TEMPORARY EROSION & SEDIMENT CONTROLS

VT STATE PLANE GRID

LIMIT OF RECONSTRUCTION STA. 42+880.000

CONTRACT BEGINS LIMIT OF WORK STA. 42+840.000

E 435050 N 42550

E 435200 N 42550

ITEM 209.1201 M DRAINAGE STRUCTURE INLET PROTECTION

TREE/VEGETATION BARRIER (ITEM 08615.0402 M) TO BE PROVIDED TO PROTECT EXISTING TREES

ITEM 209.140101 M SEDIMENT TRAP 7 m x 14 m x 1.2 m DEEP

ITEM 209.23 M PIPE INLET / OUTLET PROTECTION, SILT FENCE - TEMPORARY

ITEM 209.1105 M PREFABRICATED CHECK DAMS @ 12 m SPACING (TYP.)

PROPOSED R.O.W. (W/A)

SPECIAL DITCH

MATCH LINE STA. 43+180.000 DWG. SP-2

WHITEHOUSE BRIDGE VERMONT STATE LINE S.H. 1426

1 STY WOOD FR. SILL=190.7m

ITEM 209.1201 M HAYBALE DIKE

ITEM 209.13 M SILT FENCE

ITEM 209.23 M PIPE INLET / OUTLET PROTECTION, SILT FENCE TEMPORARY

TREE/VEGETATION BARRIER (ITEM 08615.0402 M) TO BE PROVIDED TO PROTECT EXISTING TREES

APPROXIMATE WETLAND BOUNDARY

1 STORY METAL BUILDING

1 STORY METAL BUILDING

460 mm HDPE INV=190.240

460 mm HDPE INV=190.202

460 mm HDPE INV=189.621

460 mm HDPE INV=189.502

Inv=185.133 Top=187.763

CONC. RET. WALL

STOCKADE FENCE

2 STORY WOOD FRAME

WOOD FRAME

GREEN-HOUSE

2 STORY BRICK

FRAME GARAGE

WOOD SHED

FIELD DRIVE

SUPPORT POLE

BL 902 BE STA. 10+467.373

BL 200 BL STA. 10+663.927

GRAVEL

GRAVEL PARKING AREA

GRAVEL ROAD

PARKING LOT PLANTER

EXISTING HIGHWAY BOUNDARY

250 mm MAPLE

TAG ALM

BROWNS BROOK

WOODED AREA

STONES

BOLLARDS

GATE

DIRT DRIVE

SEPTIC

WELL ENCLOSED

1993 SURVEY BASELINE

N 59° 49' E

1409

2232

42+900

43+000

43+100

10+400

10+500

10+600

10+700

0 10 m

1: 500

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

EROSION & SEDIMENT CONTROL PLAN STA. 42+840 TO STA. 43+180

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. NYSPI.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 48 OF 92 DWG NO. SP-1

DRAFTED BY D. GOZALKOWSKI DATE 2/04

CHECKED BY C. KAHLBAUGH

ESTIMATED BY D. GOZALKOWSKI

CHECKED BY D. EMERICH

DESIGNED BY D. EMERICH

IN CHARGE OF T. KARIS

FILE NAME = u:\SI1\E\NYSDOT\CONTRACT\vugsp1.dgn
DATE/TIME = 2/24/2004
USER = 2225

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	0146001	49	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

LEGEND		
ITEM NO.	DESCRIPTION	SYMBOL
209.1105 M	CHECK DAM, PREFABRICATED - TEMPORARY	
209.1201 M	HAY/STRAWBALE (HAYBALE DIKE) - TEMPORARY	
209.1201 M	HAY/STRAWBALE (STRUCTURE INLET PROTECTION) - TEMPORARY	
209.140101 M	SEDIMENT TRAP, EARTH BERM - TEMPORARY	
209.13 M	SILT FENCE - TEMPORARY	
209.23 M	SILT FENCE FOR CULVERT INLET PROTECTION - TEMPORARY	
08615.0402 M	TREE/VEGETATION PROTECTION BARRIER	
-	WETLAND / WATERBODY IMPACT AREAS	

✱ SEE DWG'S, CSP-1& CSP-2 FOR STAGING OF TEMPORARY EROSION & SEDIMENT CONTROLS

BL 203
BL STA. 10+950.384

BL 202
BL STA. 10+888.755

BL 201
BL STA. 10+795.621

VT STATE PLANE GRID

E 435400
N 42550

E 435650
N 42450

E 435550
N 42350

LIMIT OF RECONSTRUCTION
STA. 43+275.000

ITEM 209.12 M
HAYBALE DIKE (TYP.)

ITEM 209.1105 M
PREFABRICATED CHECK DAMS
@ 12 m SPACING (TYP.)

ITEM 209.23 M

PROPOSED R.O.W. (W/A)

PROPOSED R.O.W. (WO/A)

BENNINGTON CONNECTOR S.H. 98-2

43+300

43+400

43+500

43+600

S.H. 98-2 D.P.I. 0146(1) C/2
PREVIOUSLY CONSTRUCTED
BY OTHERS

FEDERAL JURISDICTIONAL
WETLAND BOUNDARY AND
NYSDEC JURISDICTIONAL
WETLAND BOUNDARY

WETLAND MITIGATION
AREA NO. 2 SEE DWGS.
WM-1& WM-2
FOR DETAILS

REMOVE EXISTING 150 mm OF WETLAND
TOPSOIL FOR USE IN WETLAND
MITIGATION AREAS (SEE DWG. WM-1 AND
WM-2 FOR DETAILS)

ITEM 08615.0402 M
TREE / VEGETATION PROTECTION
BARRIER (WETLAND PROTECTION
BARRIER)

ITEM 209.13 M
SILT FENCE

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

MATCH LINE STA. 43+180.000 DWG. SP-1

ITEM 209.1201M
HAYBALE DIKE

WETLAND MITIGATION
AREA NO. 1 SEE DWGS.
WM-1 & WM-2 FOR DETAILS

FEDERAL JURISDICTIONAL
WETLAND BOUNDARY AND
NYSDEC JURISDICTIONAL
WETLAND BOUNDARY

GRAVEL DRIVE

BROWNS BROOK

10 0 10 m
1: 500

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

EROSION & SEDIMENT CONTROL PLAN STA. 43+180 TO STA. 43+275

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. NYSP2.dgn

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 49 OF 92 DWG NO. SP-2

IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY C. KAHLBAUGH DRAFTED BY D. GOZALKOWSKI CHECKED BY T. BURTNICK DATE 2/04

FILE NAME = u:\5110\vspdot\contract1\vspp2.dgn
DATE/TIME = 2/23/2004
USER = 2225

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	0146001	50	92

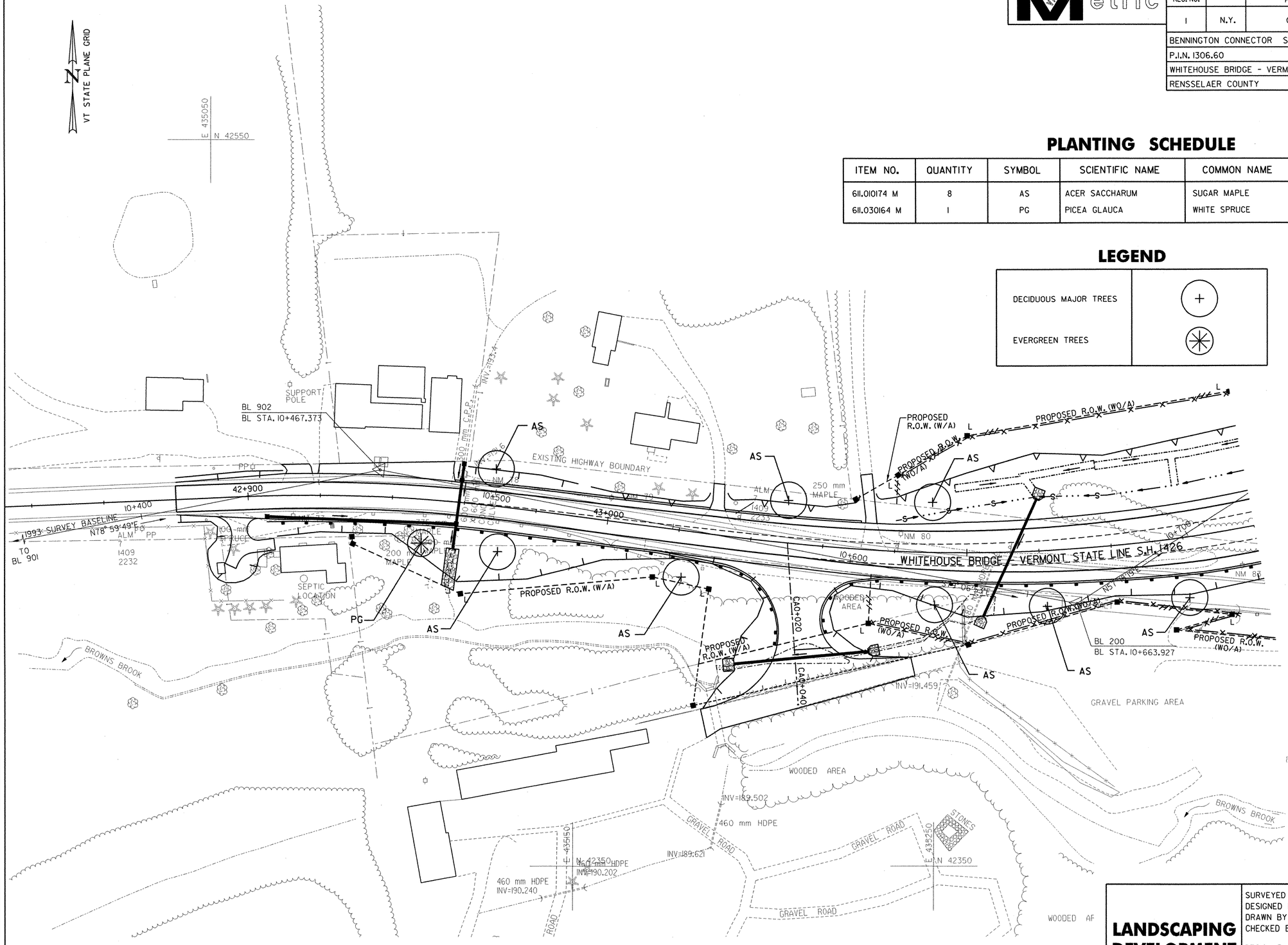
BENNINGTON CONNECTOR S.H. 98-2
P.I.N. 1306.60
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426
RENSSELAER COUNTY

PLANTING SCHEDULE

ITEM NO.	QUANTITY	SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE
611.010174 M	8	AS	ACER SACCHARUM	SUGAR MAPLE	80 mm CAL., B&B
611.030164 M	1	PG	PICEA GLAUCA	WHITE SPRUCE	1.8 m HT., B&B

LEGEND

DECIDUOUS MAJOR TREES	+
EVERGREEN TREES	✳



DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

LANDSCAPING DEVELOPMENT PLAN

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04
DESIGN FILE NO. NYLDI.DGN
PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/I
PROJ. NO. P.I.N. 1306.60
SHEET 50 OF 92 DWG NO. LD-1

IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY D. EMERICH ESTIMATED BY T. BURTNICK DATE 2/04
FILE NAME = u:\5116\rupdot\contract1\nyldi.dgn
DATE/TIME = 2/23/2004
USER = 2225

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	0146001	51	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

VT STATE PLANE GRID

LEGEND

- EXISTING WETLAND SOIL TO BE REMOVED AND USED FOR PROPOSED WETLAND AREA ESTABLISHMENT
- PROPOSED WETLAND AREA TO BE ESTABLISHED AND SEEDED
- EXISTING WETLAND TO REMAIN

BL 201
BL STA. 10+795.621

BL 200
BL STA. 10+663.927

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

BENNINGTON CONNECTOR S.H. 98-2

WETLAND AREA 1

WETLAND AREA 2

NYSDEC WETLAND BUFFER

FEDERAL JURISDICTIONAL AND NYSDEC JURISDICTIONAL WETLAND BOUNDARY

STOCKPILE AND PLACING WETLAND TOPSOIL, ITEM 01613.02 M

REMOVE EXISTING 150 mm OF WETLAND TOPSOIL ITEM 01613.02 M

GRAVEL

DIRT DRIVE

EXISTING HIGHWAY EMBANKMENT

PLANTING SCHEDULE

ITEM NO.	QUANTITY	SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE
611.010133 M	5	AR	ACER RUBRUM	RED MAPLE	40 mm CAL. B&B
611.010133 M	5	FP	FRAXINUS PENNSYLVANICA	GREEN ASH	40 mm CAL. B&B
611.040133 M	21	CS	CORNUS STOLONIFERA	RED OSIER DOGWOOD	500 mm HT., NO. 3 CONT.
611.040133 M	8	VD	VIBURNUM DENTATUM	ARROWWOOD	500 mm HT., NO. 3 CONT.

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

6 0 6 m
1: 300

WETLAND MITIGATION PLAN

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E./C.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NYWM-1.dgn

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 51 OF 92 DWG NO. WM-1

FILE NAME = z:\GIS\Projects\contract1\nywm-1.dgn
DATE/TIME = 2/17/2004 8:24:00 AM
USER = 2225
IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. EMERICH DRAFTED BY D. GOZALKOWSKI CHECKED BY C. KAHLBAUGH ESTIMATED BY D. GOZALKOWSKI CHECKED BY I. BURTNICK DATE 2/04

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	52	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

WETLAND CREATION NOTES:

1.) CONTRACTOR SHALL HAVE PREVIOUSLY INSTALLED AT LEAST THREE (3) SIMILAR SIZE WETLAND MITIGATION, CREATING AND RESTORATION PROJECTS IN THE PAST FIVE (5) YEARS.

2.) PRIOR TO CONSTRUCTION IN ANY WETLAND AREA, ALL CONSTRUCTION EQUIPMENT SHALL BE THOROUGHLY WASHED TO MINIMIZE THE POTENTINAL FOR INTRODUCING PROPAGULES OF UNDESIRABLE NON-NATIVE SPECIES INTO WETLANDS.

3.) PRIOR TO THE START OF CLEARING AND GRUBBING AND/OR ANY CONSTRUCTION ADJACENT TO THE WETLANDS, THE NYSDOT REGIONAL LANDSCAPE ARCHITECT SHALL VERIFY THE LOCATION(S) OF THE AREA(S) TO BE PRESERVED, THE TREES TO BE SAVED, AND THE LOCATION OF ITEM 08615.0402 M TREE/VEGETATION PROTECTION BARRIER, AND ALL OTHER 209.XX M ITEMS (SILT FENCE, ETC.). NO CONSTRUCTION EQUIPMENT SHALL BE ALLOWED WITHIN THE BOUNDARIES OF THE WETLAND AREAS TO BE PRESERVED AS SHOWN ON THE PLANS AND AS DELINEATED WITH TREE/VEGETATION PROTECTION BARRIER AND SILT FENCE. NO REMOVAL OF ANY TREES OR OTHER PLANT MATERIAL SHALL BE ALLOWED WITHIN THESE AREAS WITHOUT THE APPROVAL OF THE RESIDENT ENGINEER. SILT FENCE SHALL BE PLACED AS CLOSE AS POSSIBLE TO THE EDGE OF THE EXISTING WETLANDS TO BE PRESERVED WITHOUT INTERFERING WITH GRADING OPERATIONS FOR THE NEW WETLAND.

4.) CONTRACTOR SHALL INSTALL THE EROSION CONTROL MEASURES AS SHOWN ON THE WETLAND MITIGATION CONTRACT DRAWINGS AND IN ACCORDANCE WITH THE "NEW YORK GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL".

5.) ALL EROSION CONTROL MEASURES ARE TO BE INSPECTED DAILY FOR PROPER FUNCTIONING. ANY DAMAGED OR NON-FUNCTIONING DEVICES SHALL BE REPLACED IMMEDIATELY. NO EROSION AND SEDIMENT CONTROL DEVICES SHALL BE REMOVED WITHOUT APPROVAL OF THE RESIDENT ENGINEER.

6.) AFTER CLEARING AND GRUBBING, THE CONTRACTOR SHALL STRIP WETLAND TOPSOIL, ITEM 01613.02 M, TO A MINIMUM DEPTH OF 150 mm IN AREAS SHOWN ON DWGS. WM-1 AND P-2.

7.) THE CONTRACTOR SHALL VERIFY THE SEASONAL HIGH GROUND WATER ELEVATION IS AT A SUFFICIENT DEPTH TO SUPPORT WETLAND VEGETATION WITHIN THE WETLAND CREATION AREAS. IF THE SEASONAL HIGH GROUND WATER ELEVATION IS NOT SUFFICIENT THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER OF THIS CONDITION.

8.) PRIOR TO FINISH GRADING OF THE WETLAND MITIGATION AREAS, THE NYSDOT REGIONAL LANDSCAPE ARCHITECT SHALL BE NOTIFIED TO VERIFY THAT SUFFICIENT WATER DEPTH WILL BE OBTAINED AT THE BOTTOM ELEVATIONS SPECIFIED. FURTHER EXCAVATION AND/OR FILLING MAY BE ORDERED AND IS TO BE CARRIED OUT UNDER ITEMS 203.02 M AND 203.03 M.

9.) THE BASE OR FLOOR OF THE NEW WETLAND IS SHOWN AS A FINISHED GRADE. THIS REQUIRES AN UNDERCUT OF A DEPTH TO BE DETERMINED, AND THE SPREADING OF WETLAND TOPSOIL, AT 300 mm MINIMUM, TO FINISH GRADE. WETLAND TOPSOIL WILL COME FROM AREAS SHOWN ON DWGS. WM-1 AND P-2. IT IS PREFERABLE TO MOVE THIS MATERIAL DIRECTLY FROM THE SALVAGE SITE TO THE NEW WETLAND, BUT STOCKPILING WILL BE PERMITTED. THE LOCATION AND SIZE OF STOCKPILES MUST BE PRE-APPROVED. WETLAND TOPSOIL IN AN UNWORKABLE CONDITION, DUE TO MOISTURE, FROST, OR OTHER CONDITIONS, SHALL NOT BE PLACED UNTIL IT IS SUITABLE FOR SPREADING. IMMEDIATLEY AFTER SPREADING, THE SURFACE SHALL BE BROUGHT TO ITS FINAL SHAPE. THE WETLAND BOTTOM SHALL BE SEEDED WITH THE SEED MIX AS SPECIFIED.

10.) IN ORDER TO PROMOTE THE EARLY DEVELOPMENT OF NEW PLANTING WITHIN THE WETLANDS TO BE CREATED, THE CONTRACTOR SHALL EXCAVATE AND CONSTRUCT THE WETLAND AS SOON AS POSSIBLE. ONCE STARTED, WETLAND GRADING SHALL BE PROGRESSED TO COMPLETION WITHOUT DELAY.

11.) TOPSOIL CONTAINING FOREIGN MATERIAL SUCH AS INVASIVE PLANTS OR INVASIVE SEEDS (SUCH AS PHRAGMITIES AND PURPLE LOOSESTRIFE) SHALL BE REJECTED BY THE RESIDENT ENGINEER.

12.) CONTRACTOR SHALL SUBMIT WRITTEN SOIL TEST RESULTS TO THE RESIDENT ENGINEER PRIOR TO INSTALLATION AS SPECIFIED IN SPECIFICATION SECTION 713-01.

13.) THE APPLICATION OF WETLAND TOPSOIL (ITEM 01613.02 M) WITH WETLAND SEED MIX SHALL IMMEDIATELY FOLLOW FINISH GRADING. SUCH PRECAUTIONS ARE DESIGNED IN PART TO LIMIT THE EMERGENCE AND GROWTH OF UNDESIRABLE PLANT SPECIES.

14.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CERTIFICATES OF INSPECTION FOR ALL WETLAND MITIGATION PLANTINGS, TUBERS, PLUGS, BULBS, WETLAND SEEDING AND BARE ROOT WETLAND PLANTINGS. THE RESIDENT ENGINEER RESERVES THE RIGHT OR OPTION TO INSPECT ALL WETLAND PLANTINGS AT THE SITE BEFORE PLANTING FOR COMPLIANCE WITH REQUIREMENTS FOR GENUS, SPECIES, VARIETY, SIZE AND CONDITION, ROOT SYSTEMS, INSECTS, INJURIES, AND LATENT DEFECTS AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING THE PROGRESS OF WORK. REFER TO SPECIFICATION SECTION 713-06.

15) CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 611 FOR ALL WETLAND MITIGATION SHRUB AND TREE PLANTINGS. ALL WETLAND PLANTS SHALL BE DISEASE RESISTANT, NATIVE PLANTS WITH WELL-BRANCHED ROOT SYSTEMS FROM A CERTIFIED WETLAND NURSERY APPROVED BY THE RESIDENT ENGINEER.

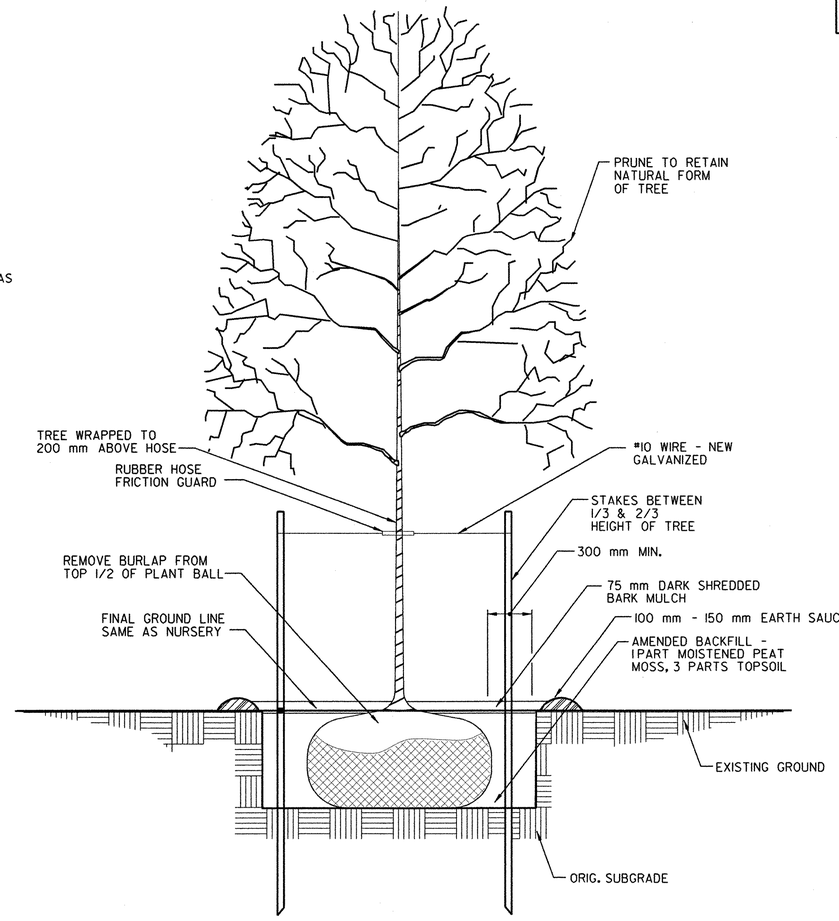
16.) UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED SILT (AS APPROVED BY THE RESIDENT ENGINEER) FROM BEHIND SILTATION BARRIERS, PAVEMENT AREAS, AND CATCH BASIN SUMPS. DISPOSE OF THE SILT OFF-SITE.

17.) PERMANENT SIGNS WILL BE PLACED ALONG THE PERIMETER OF ALL WETLAND MITIGATION AREAS WHICH INDICATE THAT THEY ARE WETLAND MITIGATION AREAS AND NO DISTURBANCE IS ALLOWED WITHIN THEM. LOCATION OF THE SIGNS WILL BE AS PER THE RECOMMENDATIONS OF THE REGIONAL LANDSCAPE ARCHITECT.

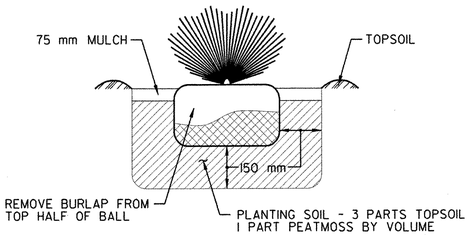
18.) THE CONTRACTOR SHALL ENSURE THAT ALL PLANTINGS IN CONJUNCTION WITH THE WETLAND MITIGATION EFFORT SHALL HAVE AN EIGHTY-FIVE (85) PERCENT SURVIVAL AND/OR COVERAGE RATE THAT MUST BE MET OR EXCEEDED AT THE END OF THE SECOND GROWING SEASON FOLLOWING THE INITIAL PLANTING. IF THE EIGHTY-FIVE (85) PERCENT SURVIVAL RATE IS NOT MET AT THE END OF THE SECOND GROWING SEASON, THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE THE LEVEL OF SURVIVAL BY THE END OF THE NEXT GROWING SEASON, INCLUDING RE-PLANTING AND REGRADING IF NECESSARY.

19.) THE NYSDOT SHALL MONITOR THE WETLAND MITIGATION AREA FOR A MINIMUM OF 5 YEARS AFTER CONSTRUCTION OF THE WETLAND MITIGATION AREA. A WRITTEN SUMMARY OF THE INSPECTION SHALL BE SUBMITTED TO THE NYSDOT REGIONAL PERMIT ADMINISTRATOR WITHIN 30 DAYS OF EACH INSPECTION. THE FIRST REPORT SHALL DESCRIBE THE INITIAL PLANTINGS IN THE WETLAND CREATION AREA. SUBSEQUENT REPORTS SHALL DESCRIBE RELATIVE ABUNDANCES AND PHYSICAL CONDITIONS OF SPECIES PLANTED AS WELL AS RELATIVE ABUNDANCES OF SPECIES ESTABLISHED FROM PROPAGULES IN THE TRANSPLANTED TOPSOIL.

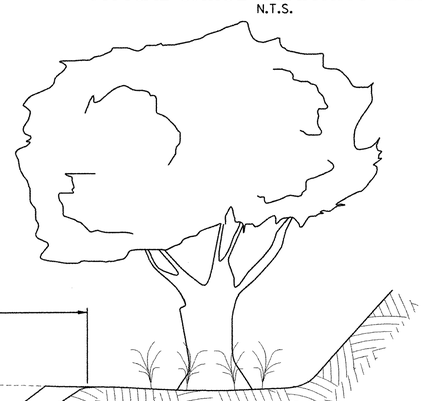
20.) IF AFTER THREE (3) GROWING SEASONS THERE IS LESS THAN 80% SURVIVAL OF WOODY PLANT SPECIES PLANTED, ADDITIONAL PLANTINGS SHALL BE MADE OF THE SAME OR DIFFERENT SPECIES DEPENDING UPON THE PROABLE REASONS FOR POOR SURVIVAL.

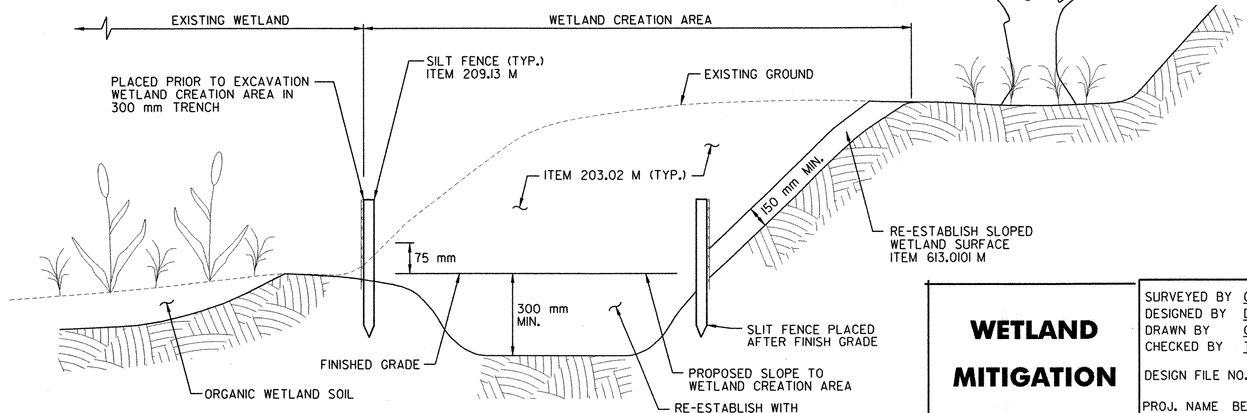


DECIDUOUS WETLAND TREE PLANTING & STAKING DETAIL
N.T.S.



TYPICAL SHRUB PLANTING DETAIL
N.T.S.





WETLAND CREATION DETAIL
N.T.S.

WETLAND PERMIT NOTE:

THE NYS DEPARTMENT OF TRANSPORTATION REQUIRES PERMITS FOR CONSTRUCTION OF THIS PROJECT FROM THE NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION AND FROM THE U.S. ARMY CORPS OF ENGINEERS.

THE FRESHWATER WETLAND BOUNDARY AS PRESENTED ON THESE PLANS DEPICTS THE APPROXIMATE LIMITS OF FEDERAL AND NYSDEC JURISDICTIONAL WETLANDS. NO ADDITIONAL CONSTRUCTION, GRADING, FILLING, CLEARING, STOCKPILING, STAGING, OR OTHER RELATED ACTIVITY SHALL BE PERMITTED WITHIN THE WETLANDS EXCEPT AS DESCRIBED ON THESE PLANS AND AUTHORIZED IN THE PERMIT DOCUMENTS. ANY ADDITIONAL WORK IN THE WETLAND AREA NOT SHOWN ON THE PLANS SHALL NOT BE DONE WITHOUT FIRST CONTACTING THE NYSDOT REGIONAL ENVIRONMENTAL CONTACT.

THE CONTRACTOR IS ADVISED THAT THEIR PERFORMANCE IS SUBJECT TO ALL THE TERMS AND CONDITIONS CONTAINED IN THE PERMITS ISSUED BY THE NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION AND THE U.S. ARMY CORPS OF ENGINEERS.

COMPLIANCE IS ABSOLUTELY MANDATORY, AND FAILURE TO COMPLY OR ENSURE THAT ITS CONTRACTORS COMPLY MAY RESULT IN SANCTIONS AGAINST THE DEPARTMENT AND THE VERMONT AGENCY OF TRANSPORTATION, INCLUDING BUT NOT LIMITED TO, A SUSPENSION OR REVOCATION OF THE PERMITS. SUSPENSION OR REVOCATION OF THE PERMITS WILL REQUIRE CESSATION OF ANY WORK SUBJECT TO THE REVOCATION OR SUSPENSION ORDER.

THE CONTRACTOR IS HEREBY REQUIRED TO COMPLY WITH ALL TERMS AND CONDITIONS OF THE PERMITS. THE CONTRACTOR SHALL NOT BE PERMITTED TO MODIFY ANY CONSTRUCTION SEQUENCE WHICH WOULD CONTRAVENE THE TERMS AND CONDITIONS OF THE PERMITS.

WETLAND MITIGATION DETAILS

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. / C.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NYWM-2.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 52 OF 92 DWG NO. WM-2

FILE NAME = u:\5116\syodo\contract1\nywm2.dgn
USER = 2225
DATE/TIME = 2/23/2004

IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY T. BURTNICK DATE 2/04

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	0146001	53	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

LEGEND	
DESCRIPTION	SYMBOL
WETLAND / WATERBODY IMPACT AREAS	

VT STATE PLANE GRID

EXISTING PLANTER/SIGN TO BE RELOCATED OFF OF STATE R.O.W. TO A LOCATION DETERMINED BY THE RESIDENT ENGINEER IN THE FIELD. THE COST FOR RELOCATING THE PLANTER/SIGN SHALL BE INCLUDED IN ITEM 201.06 M. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A PRIVATE PROPERTY WORK RELEASE FROM THE PROPERTY OWNERS PRIOR TO RELOCATING THE PLANTER.

EXISTING FLAG POLE TO BE RELOCATED OFF OF STATE R.O.W. TO A LOCATION DETERMINED BY THE RESIDENT ENGINEER IN THE FIELD. THE COST FOR RELOCATING THE FLAG POLE SHALL BE INCLUDED IN ITEM 201.06 M. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A PRIVATE PROPERTY WORK RELEASE FROM THE PROPERTY OWNERS PRIOR TO RELOCATING THE FLAG POLE.

E 435050 N 42550

E 435200 N 42550

E 435150 N 42350

E 435250 N 42350

E 435350 N 42350

CONTRACT BEGINS LIMIT OF WORK STA. 42+840.000

LIMIT OF RECONSTRUCTION DETAIL A, DWG. MD-1
SEE PAVEMENT TERMINATION SHOULDER WIDENING
BEGIN EASTBOUND LANE AND TAPER
BEGIN WESTBOUND LANE TAPER
BEGIN WESTBOUND SHOULDER WIDENING
STA. 42+880.000

RAYMOND R. AND LAURA N. FARRARA (REPUTED OWNER)

END EASTBOUND LANE AND SHOULDER WIDENING
END WESTBOUND LANE TAPER
END WESTBOUND SHOULDER WIDENING
STA. 42+910.000

P.I. STA. 42+936.481 BK. = P.I. STA. 42+936.290 AHD.

BEGIN WESTBOUND SHOULDER TAPER STA. 42+940.000

KEVIN W. ALLARD L. 1448 P. 328 (REPUTED OWNER)

BEGIN MEDIAN WIDENING STA. 42+950.000

BEGIN CONCRETE CURB LEFT
END WESTBOUND SHOULDER TAPER
STA. 42+957.000

TYPE T STR.
T.F.=193.000
INV. S=191.15
DR 1 — 5.0 m — 750 mm SICPP

TYPE R STR.
T.F.=193.125
INV. N=191.10
INV. S=191.10
DR 2 — 11.0 m — 750 mm SICPP

RUTH RUDD L. 676 P. 492 (REPUTED OWNER)

HOS COT BUILDERS, INC. L. 1459 P. 190 (REPUTED OWNER)

FIELD DRIVE

END TIP-UP SHOULDER RIGHT STA. 43+035.000

BEGIN EASTBOUND CLIMBING LANE WIDENING STA. 43+055.000

END CONCRETE CURB LEFT STA. 43+070.000

BEGIN WESTBOUND SHOULDER WIDENING STA. 43+080.000

END WESTBOUND SHOULDER WIDENING STA. 43+100.000

END EASTBOUND CLIMBING LANE WIDENING
BEGIN EASTBOUND FULL-WIDTH CLIMBING LANE
FULL WIDTH STA. 43+165.000

INSTALL EDGE DRAIN OUTLET TYPE 2A AS SHOWN ON DWG. DD-1 (TYP.)

SEE FRENCH DRAIN DETAIL DWG. DD-1 (TYP.)

BASE OF DRAIN TO GRAVITY DRAIN TO DOWN CHUTE (TYP.)

ITEM 607.19 M (TYP.)

DR 6 — 36.0 m — 750 mm SICPP

TYPE II STONE FILL

MATCH LINE STA. 43+180.000 DWG. P-2

2 STORY WOOD FRAME

GRAVEL

SUPPORT POLE

BL 902
BL STA. 10+467.373

GREEN-HOUSE

WOOD FRAME

GREEN-HOUSE

FRAME GARAGE

T.S. STA. 43+015.170

WOOD SHED

2 STORY BRICK

GRADE TO EXISTING DITCH

PARKING LOT PLANTER

2.047 m

FHX-010

1.0 m TV BOX PP

RI

U

EXISTING HIGHWAY BOUNDARY

N87° 29' 04.9"E

42+900

43+000

S82° 32' 57.0"E

43+100

CURVE W.B. 1

CURVE W.B. 2

1993 SURVEY BASELINE

N78° 59' 49"E

10+400

10+500

10+600

10+700

0.8 m TV BOX PP

TO BL 901

ITEM 201.06 M

ROBERT W. LOHNES & SUSAN M. LOHNES L.1187 P.659 (REPUTED OWNERS)

PROPOSED DRIVEWAY RELOCATION SEE DETAIL, DWG. DW-1 (TYP.)

1 STY WOOD FR. SILL=190.7m

SEPTIC LOCATION

WELL ENCLOSED

INV. 189.25

PROPOSED R.O.W. (W/A)

ITEM 15606.70 M

ITEM 606.10 M

ITEM 606.79 M

ITEM 619.10 M

ITEM 606.10000 M

PROPOSED DRIVEWAY RELOCATION SEE DETAIL, DWG. DW-2

P.T. STA. 42+974.218

ITEM 201.06 M

ITEM 619.10 M

ITEM 606.1203 M

BROWNS BROOK

P.C. STA. 42+898.553

STA. 42+905.000 BEGIN TIP-UP SHOULDER RIGHT

APPROXIMATE WETLAND BOUNDARY

RUTH RUDD L. 676 P. 492 (REPUTED OWNER)

TYPE T STR.
T.F. = 192.535
INV. N = 190.70
INV. W = 189.30
INV. S = 189.30
DR 4 — 7.0 m — 750 mm SICPP
INV=185.230
TOP=187.630

ITEM 625.04 M (TYP.)
STONE-LINED SLOPE

54.0 m — DR 3 — 375 mm SICPP
TYPE T STR.
T.F. = 191.250
INV. E = 189.80

CAROLINE A. PIERCE & HAROLD E. PIERCE L.1411 P.345 (REPUTED OWNERS)

1 STORY METAL BUILDING

GRAVEL PARKING AREA

Inv=185.133
Top=187.763

INV=188.502

ITEM 606.1201 M

INV.=188.00

STONE-LINED SLOPE

DR 5 — 35.0 m — 750 mm SICPP

GRAVEL ROAD

PROPOSED R.O.W. (W/A)

SPECIAL DITCH

S.C. STA. 43+071.170

INV.=192.60

FHC-024

FHC-022

FHC-020

CURVE W.B. 2

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

WOODED AREA

4.0 m 5.0 m

PROPOSED R.O.W. (W/A)

GRAVEL

BL 200
BL STA. 10+663.927

DIRT DRIVE

R2

BOLLARDS

GATE

STOCKADE FENCE

INV.=192.30
STONE APRON

ITEM 606.10000 M

ITEM 606.1201 M

ITEM 625.05 M (TYP.)

ITEM 606.7910 M

ITEM 606.10 M

GRAVEL PARKING AREA

ITEM 15606.71 M

ITEM 619.10 M

INV=191.459

STONE APRON

INV.=191.10

APPROXIMATE WETLAND BOUNDARY

PERMANENT EASEMENT FOR DRAINAGE

RELOCATE CONCRETE BLOCK WALL AS DIRECTED BY RESIDENT ENGINEER. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 201.06 M

REMOVE EXISTING PAVEMENT AND GRAVEL SUBBASE (ITEM 203.02 M), SCARIFY AREA 150 mm DEEP, AND THEN PLACE TOPSOIL (ITEM 613.0101 M) AND ESTABLISH TURF (ITEM 610.0203 M)

JOHN F. CAHILL, JR L. 1336 P. 143 (REPUTED OWNER)

RET. WALL

BROWNS BROOK

BM 1
ELEV. = 194.566

CURVE W.B. 1
P.C. = STA. 42+898.553
P.T. = STA. 42+974.218
Δ = 09° 57' 58.1"
R = 435.000 m
T = 37.928 m
L = 75.665 m
E = 1.650 m
e max = 0.060 DN. RT.

CURVE W.B. 2
T.S. = STA. 43+015.170
S.C. = STA. 43+071.170
C.S. = STA. 43+353.027
S.T. = STA. 43+409.027
Δ = 44° 30' 02.5"
R = 435.000 m
Δc = 37° 07' 28.9"
Lc = 281.857 m
Ts = 206.085 m
Ls = 56.000 m
Θs = 03° 41' 16.8"
e max = 0.060 DN. LT.

NOTES:

1.) SEE DWG. GT-1 FOR GUIDE RAIL INSTALLATION AND REMOVAL TABLE.

2.) SEE DWG. DT-1 FOR GENERAL DRAINAGE NOTES, DESCRIPTIONS AND PAYMENT QUANTITIES.

3.) SEE DWG. DD-2 FOR DRAINAGE DETAILS (STONE APRONS, ETC.)

4.) (U) INDICATES UTILITIES TO BE RELOCATED BY OTHERS.

5.) DRIVEWAYS TO BE RECONSTRUCTED ARE DESIGNATED BY A CIRCLED NUMBER. THIS NUMBER CORRESPONDS TO THE DW NO. PRESENTED ON THE TABLE OF DRIVEWAYS ON DWG. MD-3.

10 0 10 m
1: 500

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

PLAN

STA. 42+840 TO STA. 43+180

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. NYPI.dgn

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/I

PROJ. NO. P.I.N. 1306.60

SHEET 53 OF 92 DWG. NO. P-1

DESIGNED BY T. KARIS CHECKED BY D. EMERICH DRAFTED BY D. GOZALKOWSKI CHECKED BY C. KAHLBAUGH ESTIMATED BY D. EMERICH CHECKED BY T. BURTNICK DATE 2/04

IN CHARGE OF

FILE NAME = u:\511\6\roads\contract1\npl.dgn
DATE/TIME = 2/23/2004
USER = 2225

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	54	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

CURVE W.B. 2

T.S.= STA.43+015.170
S.C.= STA.43+071.170
C.S.= STA.43+353.027
S.T.= STA.43+409.027

Δ=44°30'02.5"
R= 435.000 m
Δc=37°07'28.9"
Lc= 281.857 m
Ts= 206.085 m
Ls= 56.000 m
Θs=03°41'16.8"

emax=0.060 DN. LT.

CURVE 1

P.C.= STA.143+233.243
P.T.= STA.143+353.722

Δ=34°30'52.9"
R= 200.000 m
T= 62.130 m
L= 120.479 m
E= 9.428 m

emax=0.060 DN. LT.

LEGEND	
DESCRIPTION	SYMBOL
WETLAND / WATERBODY IMPACT AREAS	

NOTES:

1.) SEE DWG. GT-1 FOR GUIDE RAIL INSTALLATION AND REMOVAL TABLES.

2.) SEE DWG. DT-1 FOR GENERAL DRAINAGE NOTES, DESCRIPTIONS AND PAYMENT QUANTITIES.

3.) SEE DWG. DD-2 FOR DRAINAGE DETAILS (STONE APRONS, ETC.)

4.) (U) INDICATES UTILITIES TO BE RELOCATED BY OTHERS.

5.) UNDERGROUND TELEPHONE UTILITY LOCATION QUALITY LEVEL 'D' - EXISTING NYSDOT AND UTILITY COMPANY RECORDS WERE USED TO LOCATE SUBSURFACE UTILITY.

6.) CONSTRUCT 1.2 m GRAVEL APRON USING ITEM 203.03 M & ITEM 304.11 M AS DIRECTED BY THE RESIDENT ENGINEER.

INSTALL EDGE DRAIN OUTLET TYPE 2A AS SHOWN ON DWG. DD-1
BASE OF DRAIN TO GRAVITY DRAIN TO DOWN CHUTE
SEE FRENCH DRAIN DETAIL DWG. DD-1 (TYP.)
HOS COT BUILDERS, INC. L. 1459 P. 190 (REPUTED OWNER)
S.H. 1426 STA. 43+233.243 BK. = S.H. 1426 P.C. STA. 143+233.243 AHD.
BEGIN S.H. 98- STA. 43+233.243
PROPOSED TRAFFIC SIGNAL SEE DWG. TSP-1 FOR DETAILS
LIMIT OF RECONSTRUCTION SEE PAVEMENT TERMINATION DETAIL DWG. MD-1
STA. 43+275.000
BL 201 BL STA. 10+795.621
BL 202 BL STA. 10+888.755
BL 203 BL STA. 10+950.384
TO BL 203
10+900 N29°04'02"E
C.S. STA.43+353.027
S.T. STA.43+409.027
1993 SURVEY BASELINE
N36°59'46"E
E 435400 N 42550
STA. 43+190.000
STA. 43+240.000 SEND MEDIAN WIDENING
PROPOSED R.O.W. (W/A)
PROPOSED R.O.W. (WO/A)
SP-100 SP-100A SP-101 SP-101A SP-101B SP-102 SP-102A SP-103 SP-104 SP-104A
CURVE W.B. 2
BENNINGTON CONNECTOR S.H. 98-2
UG TEL
43+300 43+400
N52°57'00.5"E
ITEM 607.19 M (TYP.)
SEE NOTE 5
ITEM 606.1203 M R=164 m R=13.4 m
SEE DWG. GR-1 FOR INTERSECTION GRADING PLAN
FEDERAL JURISDICTIONAL WETLAND BOUNDARY AND NYSDEC JURISDICTIONAL WETLAND BOUNDARY
WETLAND MITIGATION AREA NO. 2 SEE DWGS. WM-1 & WM-2 FOR DETAILS
ULDIS A. RAISKUMS & MUDITE G. RAISKUMS L. 1215 P. 147 (REPUTED OWNERS)
STATE OF NEW YORK
ITEM 607.19 M
ITEM 606.1202 M
ITEM 606.10 M
ITEM 606.1203 M STA. 143+699.200, LT
ITEM 15606.71 M
ITEM 606.7910 M
ITEM 606.10000 M
REMOVE EXISTING PAVEMENT AND GRAVEL SUBBASE (ITEM 203.02 M), SCARIFY AREA 150 mm DEEP, AND THEN PLACE TOPSOIL (ITEM 613.01101 M) AND ESTABLISH TURF (ITEM 610.0203 M)
REMOVE EXISTING 150 mm OF WETLAND TOPSOIL FOR USE IN WETLAND MITIGATION AREAS (SEE DWG. WM-1 AND WM-2 FOR DETAILS)
FEDERAL JURISDICTIONAL WETLAND BOUNDARY AND NYSDEC JURISDICTIONAL WETLAND BOUNDARY
WETLAND MITIGATION AREA NO. 1 SEE DWGS. WM-1 & WM-2 FOR DETAILS
JOHN F. CAHILL, JR L. 1336 P. 143 (REPUTED OWNER)
CASSIUS ARTHUR SENECAL & ALICE M. SENECAL L. 1068 P. 262 (REPUTED OWNERS)
BEGIN EASTBOUND AND WESTBOUND SHOULDER TAPERS STA. 143+460.000
END EASTBOUND AND WESTBOUND SHOULDER LIMIT OF RECONSTRUCTION SEE PAVEMENT TERMINATION DETAIL A, DWG. MD-1 STA. 143+490.000
LIMIT OF WORK STA. 143+680.000
MATCH EXISTING RAIL STA. 143+504.000, RT
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426
S82°32'57.0"E S82°03'55.1"E
P.I. STA.143+353.722
P.C. STA.143+233.243
P.I. STA.143+295.373 BK.=
P.I. STA.143+291.592 AHD.
P.I. STA.143+227.255 BK.=
P.I. STA.143+207.942 AHD.
BM 2 ELEV. = 193.914
BROWNS BROOK
GRAVEL DRIVE
EXISTING HIGHWAY BOUNDARY
E 435650 N 42450
E 435550 N 42350
143+500 143+600
0.7 m±
1.1 m±
10 0 10 m
1: 500

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

PLAN

STA. 43+180 TO STA. 43+275

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. NYP2.dgn

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 54 OF 92 DWG NO. P-2

IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH
DRAFTED BY C. KAHLBAUGH CHECKED BY T. BURTNICK DATE 2/04

FILE NAME = u:\5116\roydot\contract1\rvga2.dgn
USER = 2225
DATE/TIME = 2/23/2004

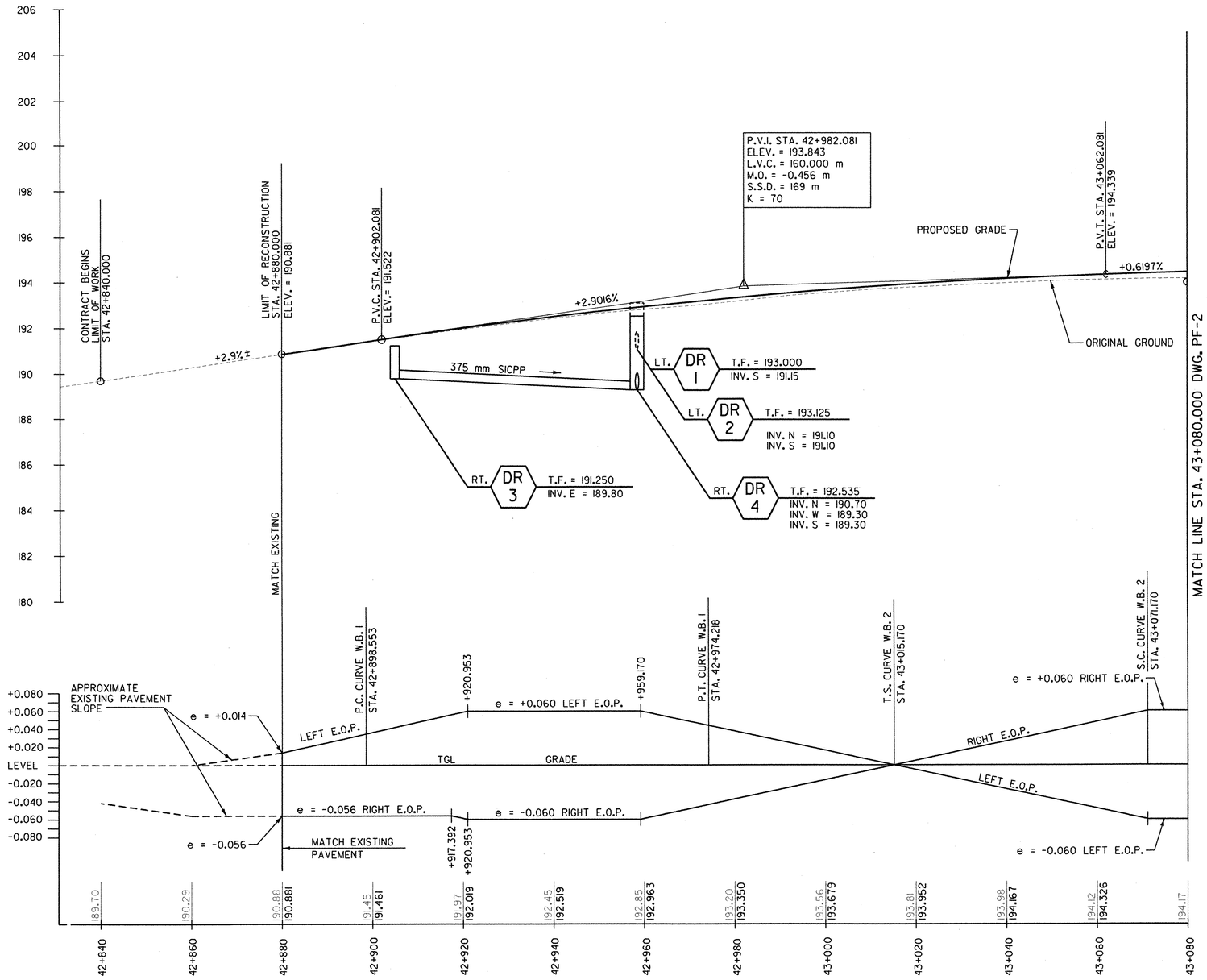
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	0146001	55	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY



S.H. 1426

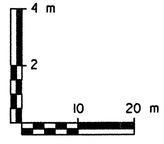
DRAINAGE LEGEND

- PROPOSED PIPES AND STRUCTURES LEFT OF H.C.L.
- PROPOSED PIPES AND STRUCTURES RIGHT OF H.C.L.
- PROPOSED SPECIAL DITCH

DATUM

VERTICAL NAVD 88

HORIZONTAL NAD 83 (1992)



PROFILE S.H. 1426 / S.H. 98-2

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NYPRFI.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 55 OF 92 DWG. NO. PF-1

DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY C. KAHLBAUGH DRAFTED BY D. GOZALKOWSKI CHECKED BY T. BURTNICK DATE 2/04

IN CHARGE OF T. KARIS

FILE NAME = u:\516\roads01\contract1\ngrf1.dgn
DATE/TIME = 2/23/2004
USER = 2225

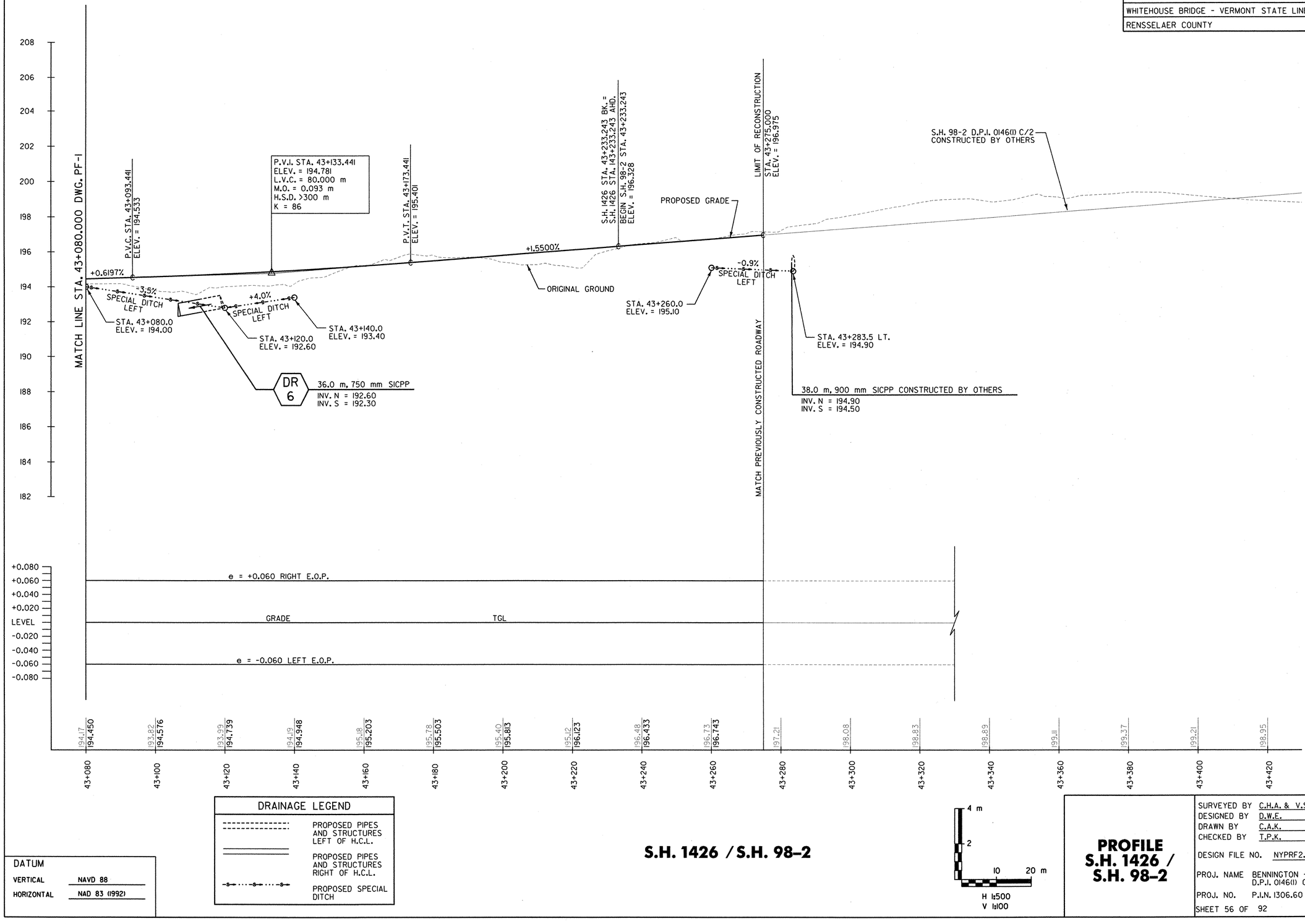
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	56	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY



DRAINAGE LEGEND

- PROPOSED PIPES AND STRUCTURES LEFT OF H.C.L.
- PROPOSED PIPES AND STRUCTURES RIGHT OF H.C.L.
- PROPOSED SPECIAL DITCH

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

S.H. 1426 / S.H. 98-2

4 m
2
10 20 m
H 1:500
V 1:100

PROFILE S.H. 1426 / S.H. 98-2

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. NYPRF2.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 56 OF 92 DWG NO. PF-2

DESIGNED BY D. EMERICH CHECKED BY D. COZALKOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY I. BURTNICK DATE 2/04
ESTIMATED BY D. EMERICH CHECKED BY D. COZALKOWSKI
IN CHARGE OF T. KARIS

FILE NAME = u:\511\vngdot\contract1\vngrf2.dgn
DATE/TIME = 2/23/2004
USER = 2225

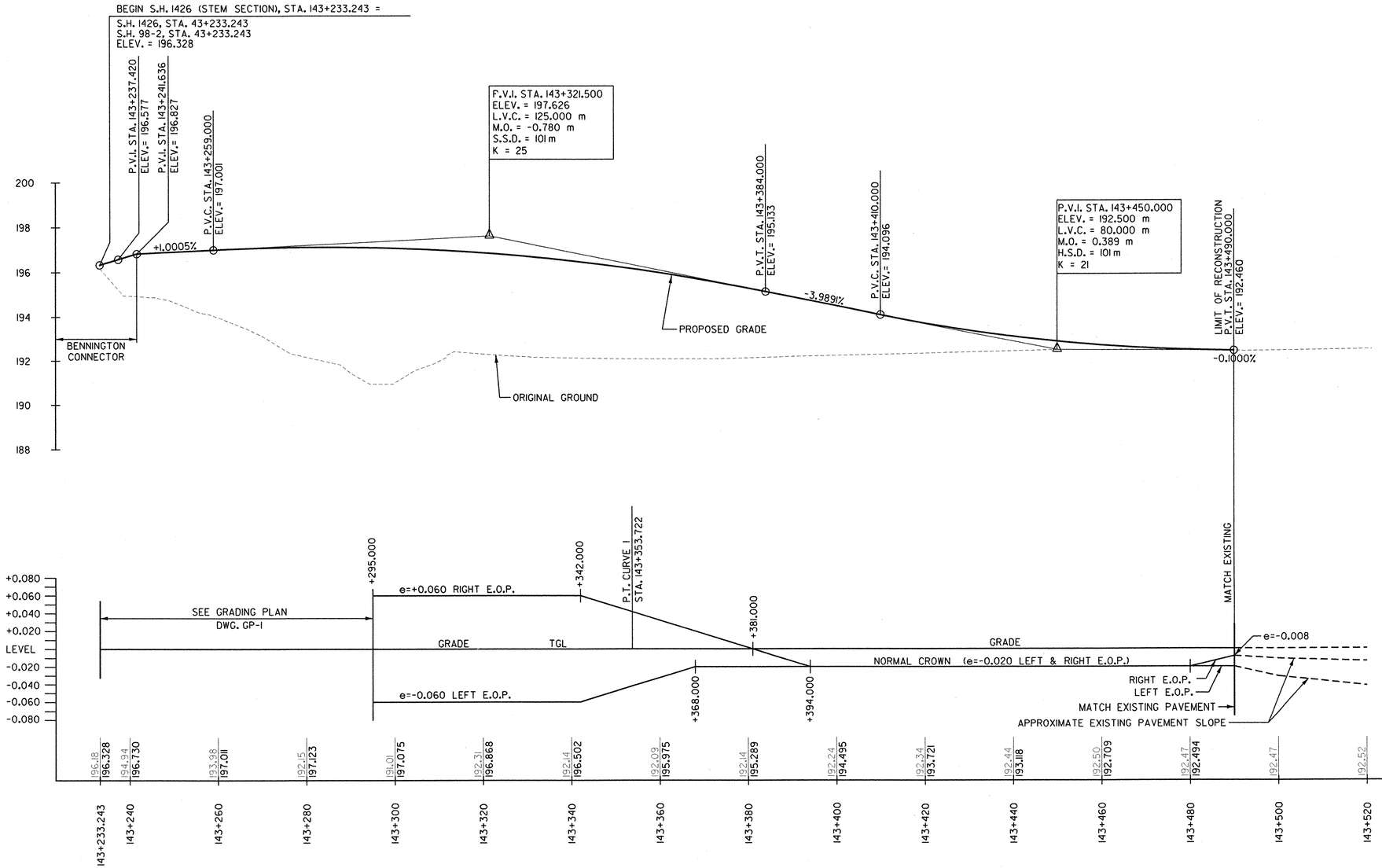
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	57	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY



S.H. 1426 (STEM SECTION)

DRAINAGE LEGEND

- PROPOSED PIPES AND STRUCTURES LEFT OF H.C.L.
- PROPOSED PIPES AND STRUCTURES RIGHT OF H.C.L.
- PROPOSED SPECIAL DITCH

4 m
2
10 20 m
H 1:500
V 1:100

DATUM

VERTICAL NAVD 88

HORIZONTAL NAD 83 (1992)

PROFILE S.H. 1426 (STEM SECTION)

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NYPRF3.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 57 OF 92 DWG. NO. PF-3

IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY D. GOZALKOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY T. BURTNICK DATE 2/04

FILE NAME = ua5118\vapdot\contract1\vapnf3.dgn
DATE/TIME = 2/23/2004 2225
USER =

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	0146001	58	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

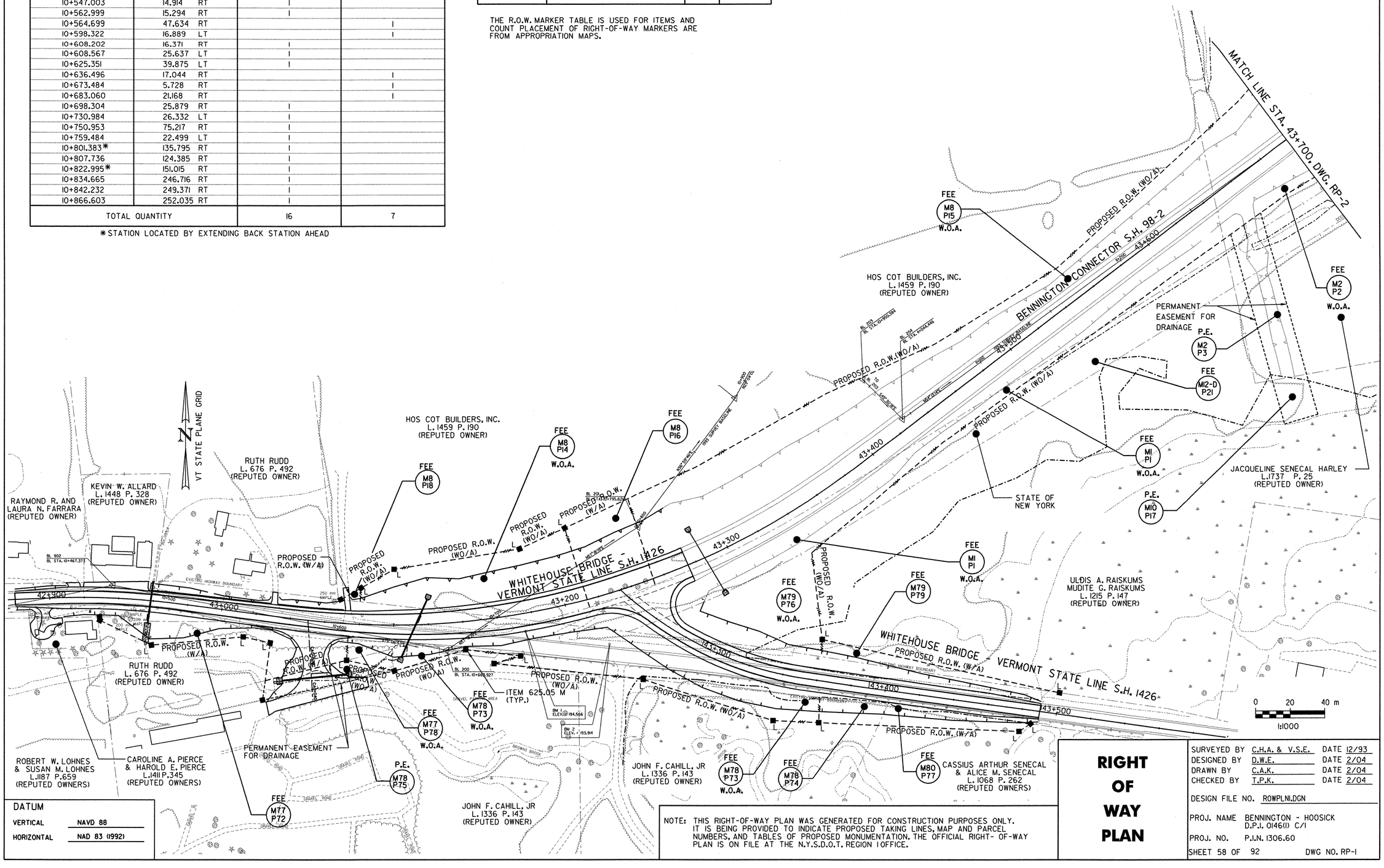
TABLE OF R.O.W. MARKERS

℄ STATION	OFFSET (m)	ITEM 625.04 M (EA)	ITEM 625.05 M (EA)
10+456.186	16.449 RT		1
10+456.034	18.474 RT		1
10+495.654	29.493 RT	1	
10+547.003	14.914 RT	1	
10+562.999	15.294 RT	1	
10+564.699	47.634 RT		1
10+598.322	16.889 LT		1
10+608.202	16.371 RT	1	
10+608.567	25.637 LT	1	
10+625.351	39.875 LT	1	
10+636.496	17.044 RT		1
10+673.484	5.728 RT		1
10+683.060	21.168 RT		1
10+698.304	25.879 RT	1	
10+730.984	26.332 LT	1	
10+750.953	75.217 RT	1	
10+759.484	22.499 LT	1	
10+801.383*	135.795 RT	1	
10+807.736	124.385 RT	1	
10+822.995*	151.015 RT	1	
10+834.665	246.716 RT	1	
10+842.232	249.371 RT	1	
10+866.603	252.035 RT	1	
TOTAL QUANTITY		16	7

*STATION LOCATED BY EXTENDING BACK STATION AHEAD

LEGEND			
ITEM NO.	DESCRIPTION	UNIT	SYMBOL
625.04 M	CONCRETE RIGHT-OF-WAY MARKERS, TYPE L (LOW)	EA	L■
625.05 M	STEEL PIN AND CAP RIGHT-OF-WAY MARKERS	EA	■

THE R.O.W. MARKER TABLE IS USED FOR ITEMS AND COUNT PLACEMENT OF RIGHT-OF-WAY MARKERS ARE FROM APPROPRIATION MAPS.



DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

NOTE: THIS RIGHT-OF-WAY PLAN WAS GENERATED FOR CONSTRUCTION PURPOSES ONLY. IT IS BEING PROVIDED TO INDICATE PROPOSED TAKING LINES, MAP AND PARCEL NUMBERS, AND TABLES OF PROPOSED MONUMENTATION. THE OFFICIAL RIGHT- OF-WAY PLAN IS ON FILE AT THE N.Y.S.D.O.T. REGION 1 OFFICE.

RIGHT OF WAY PLAN

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. ROWPLN1.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 58 OF 92 DWG NO. RP-1

IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY C. KAHLBAUGH DRAFTED BY D. GOZALKOWSKI CHECKED BY I. BURTNICK DATE 2/04

FILE NAME = u:\s1\r\projdat\contracts1\rowpln1.dgn
DATE/TIME = 2/23/2004
USER = 2225

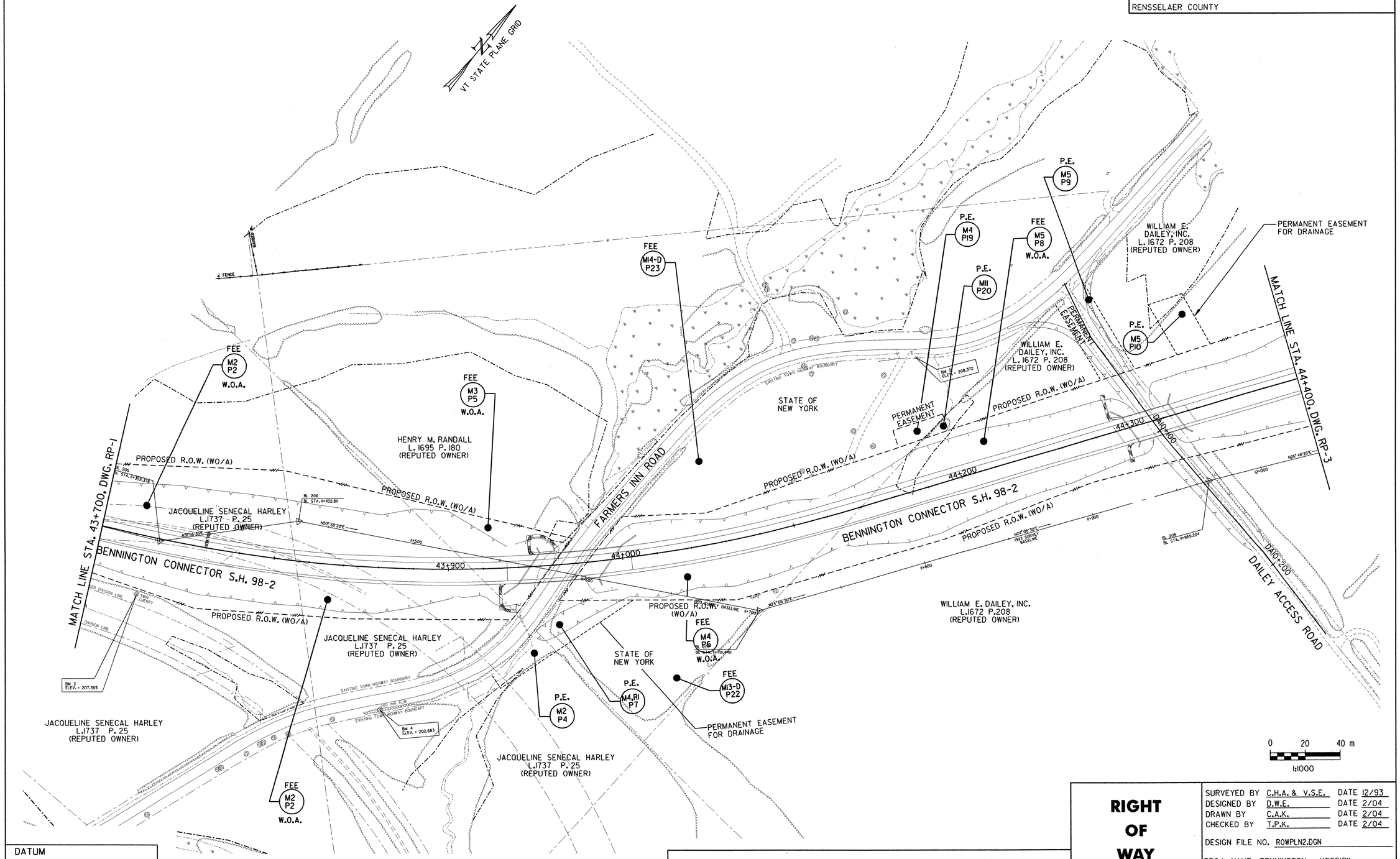
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	0146001	59	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY



DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

NOTE: THIS RIGHT-OF-WAY PLAN WAS GENERATED FOR CONSTRUCTION PURPOSES ONLY. IT IS BEING PROVIDED TO INDICATE PROPOSED TAKING LINES, MAP AND PARCEL NUMBERS, AND TABLES OF PROPOSED MONUMENTATION. THE OFFICIAL RIGHT- OF-WAY PLAN IS ON FILE AT THE N.Y.S.D.O.T. REGION I OFFICE.

RIGHT OF WAY PLAN

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. ROWPLN2.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 59 OF 92 DWG. NO. RP-2

DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY I. BURTNICK DATE 2/04

ESTIMATED BY D. EMERICH CHECKED BY T. KARIS IN CHARGE OF

FILE NAME = u:\5161\roydot\contract1\rowplh2.dgn
DATE/TIME = 2/23/2004
USER = 2225

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	60	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

NOT Metric

VT STATE PLANE GRID

FARMERS INN ROAD

ORBED ROAD

MATCH LINE STA. 44+400. DWG. RP-2

BENNINGTON CONNECTOR S.H. 98-2

44+500 44+600 44+700 44+900 45+000

PROPOSED R.O.W. (WO/A)

PERMANENT EASEMENT FOR DRAINAGE

P.E. M5 P11

FEE M5 P8 W.O.A.

FEE M5 P8 W.O.A.

FEE M7 P13 W.O.A.

FEE M5 P8 W.O.A.

WILLIAM E. DAILEY, INC. L. 1672 P. 208 (REPUTED OWNER)

WILLIAM SPARKS L. 1074 P. 225 (REPUTED OWNER)

WILLIAM E. DAILEY, INC. L. 1672 P. 208 (REPUTED OWNER)

WILLIAM SPARKS L. 1074 P. 225 (REPUTED OWNER)

WILLIAM SPARKS L. 1074 P. 225 (REPUTED OWNER)

1993 SURVEY BASELINE

BL 209 BL STA. 12+100.542

BL 210 BL STA. 12+180.49T

BL 211 BL STA. 12+264.944

BL 212/BL A 212 BL STA. 0+37.50/BK, + BL STA. 50+000.000 AHD.

BL A 799 & STA. 50+058.089

BM 6 ELEV. = 247.750

BL A 800 BL STA. 50+165.310

BL A 801 BL STA. 50+30.30

BL A 802 (WO/A) BL STA. 50+143.77

BL A 803 BL STA. 50+304.234

BM 7 ELEV. = 256.143

WHITE BIRCH

STATE OF NEW YORK
STATE OF VERMONT

0 20 40 m
1:1000

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

NOTE: THIS RIGHT-OF-WAY PLAN WAS GENERATED FOR CONSTRUCTION PURPOSES ONLY. IT IS BEING PROVIDED TO INDICATE PROPOSED TAKING LINES, MAP AND PARCEL NUMBERS, AND TABLES OF PROPOSED MONUMENTATION. THE OFFICIAL RIGHT- OF-WAY PLAN IS ON FILE AT THE N.Y.S.D.O.T. REGION 1 OFFICE.

RIGHT OF WAY PLAN

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. ROWPLN3.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 60 OF 92 DWG. NO. RP-3

IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY I. BURTNICK DATE 2/04

DRAFTED BY C. KAHLBAUGH

FILE NAME = u:\5181\rpdot\contract1\rowpln3.dgn
DATE/TIME = 2/23/2004
USER = 2225

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.		SHEET NO.	TOTAL SHEETS	
I	N.Y.	0146001		61	92	
BENNINGTON CONNECTOR S.H. 98-2						
P.I.N. 1306.60						
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426						
RENSSELAER COUNTY						

SIGNS TO BE INSTALLED

ITEM NO. SIGN PANEL	ITEM NO. SIGN SUPPORT	SIGN SUPPORT, NUMBER REG'D PER SIGN	STATION LOCATION	TEXT	N.Y.S. M.U.T.C.D. NO.	APPROX. SIZE OF SIGN
645.7102 M	645.81 M	2	42+980.0, RT	* TO VERMONT 279 ↑ · EAST 7 → · * TO VERMONT 9 →	M13-21X M13-13X M13-21X M3-2X(MOD) M3-1X M3-1X(MOD) M13-43X M13-32X M13-32X	600X300 600X300 600X300 750X600 600X600 600X600 525X375 525X375 525X375 (2.30 m²)
645.7103 M	645.81 M	2	43+092.0, RT 43+300.0, RT 43+740.0, RT	SLOWER TRAFFIC KEEP RIGHT	R4-15D	900X1200 (1.08 m²)
645.7102 M	645.81 M	2	43+210.0, RT	* TO VERMONT 279 ↑ · EAST 7 → · * TO VERMONT 9 →	M13-21X M13-13X M13-21X M3-2X(MOD) M3-1X M3-1X(MOD) M13-43X M13-42X M13-42X	600X300 600X300 600X300 750X600 600X600 600X600 525X375 525X375 525X375 (2.30 m²)
645.7103 M	645.81 M	2	43+140.0, LT 43+360.0, RT 45+060.0, LT	STATE SPEED LIMIT 55	R2-2D	900X1200 (1.08 m²)
645.7102 M	645.81 M	1	43+180.0, LT	WEST 7	M13-14X M3-1X	600X300 600X600 (0.54 m²)
645.7103 M	645.81 M	2	43+245.0, LT	⟷	W2-18D	1200X600 (0.72 m²)
645.7102 M	645.81 M	2	43+280.0, LT	* EAST 7 ← KEEP RIGHT · TO VERMONT 9 ← KEEP RIGHT · WEST 7 ↑	M13-13X M13-21X M13-14X M3-1X M3-1X(MOD) M3-1X M13-41X M13-41X M13-43X	600X300 600X300 600X300 600X600 600X600 600X600 525X375 525X375 525X375 (2.21 m²)
645.7102 M	645.81 M	1	43+335.0, RT	* TO VERMONT 279 ↑	M13-21X M3-2X(MOD) M13-43X	600X300 750X600 525X375 (0.83 m²)
645.7102 M	645.81 M	2	143+305.0, RT	EAST 7 · * TO VERMONT 9 ↑	M13-13X M13-21X M3-1X M3-1X(MOD) M13-43X	600X300 600X300 600X600 600X600 525X375 (1.28 m²)
645.7102 M	645.81 M	2	143+285.0, LT	WEST 7 ← · * TO VERMONT 279 →	M13-14X M13-21X M3-1X M3-2X(MOD) M13-41X M13-42X	600X300 600X300 600X600 750X600 525X375 525X375 (1.56 m²)
645.7102 M	645.81 M	1	143+365.0, RT	STATE SPEED LIMIT 55	R2-2C	600X750 (0.45 m²)

* PAYMENT FOR ALL VERMONT ROUTES 279 AND 9 SIGNS WILL BE MADE UNDER N.Y.S. M.U.T.C.D. NO. AND SIZE SHOWN. HOWEVER, SIGN MATERIALS, COLORS, LETTERING AND SPECIFICATIONS SHALL MEET THE REQUIREMENTS OF VERMONT STANDARD SHEET E-136BM INCLUDED IN THE SPECIAL PROVISIONS.

SIGNS TO BE INSTALLED

ITEM NO. SIGN PANEL	ITEM NO. SIGN SUPPORT	SIGN SUPPORT, NUMBER REG'D PER SIGN	STATION LOCATION	TEXT	N.Y.S. M.U.T.C.D. NO.	APPROX. SIZE OF SIGN
645.7102 M	645.81 M	1	143+440.0, LT	WEST 7 ← · * TO VERMONT 279 →	M13-14X M13-21X M3-1X M3-2X(MOD) M13-31X M13-32X	600X300 600X300 600X600 750X600 525X375 525X375 (1.56 m²)
645.7102 M	645.81 M	2	43+140.0, RT	BENN HIST DISTS HISTORIC SITE → · BENN BATTLE MONUMENT HISTORIC SITE → · H · ? · →	M9-2C M9-2C M14-42X M14-42X M11-1C M10-7C M14-42X M14-42X	750X600 750X600 525X375 525X375 600X600 600X600 525X375 525X375 (2.41 m²)
645.7102 M	645.81 M	2	43+500.0, LT	* TO VERMONT 9 ↰ · 7 ↵	M13-13X M3-1X(MOD) M3-1X M13-31X M13-54X	600X300 600X600 600X600 525X375 525X375 (1.29 m²)
645.7103 M	645.81 M	2	44+700.0, LT 45+020.0, LT	DO NOT PASS	R4-1D	900X1200 (1.08 m²)
645.73 M	645.830402 M	2	45+100.0, LT	WELCOME TO NEW YORK The Empire State	I12-4D	3450X2250 (7.76 m²)
645.7102 M	645.81 M	1	43+560.0, LT	JCT 7	M13-1X M3-1X	600X300 600X600 (0.54 m²)
645.7103 M	645.81 M	2	143+500.0, LT	STOP AHEAD	W2-15C	900X900 (0.81 m²)
645.7102 M	645.81 M	1	43+230.0, RT 43+260.0, RT	STOP	R1-1	750X750 (0.56 m²)

NOTE:
ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

SIGN TEXT DATA

SURVEYED BY	C.H.A. & V.S.E.	DATE	12/93
DESIGNED BY	D.W.E.	DATE	2/04
DRAWN BY	C.A.K.	DATE	2/04
CHECKED BY	T.P.K.	DATE	2/04

DESIGN FILE NO. NYSTDI.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 61 OF 92 DWG NO. STD-1

DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY I. BURTNICK DATE 2/04
ESTIMATED BY D. EMERICH CHECKED BY D. GOZALKOWSKI
IN CHARGE OF T. KARIS

FILE NAME = \pt5116\nysdot\contracts1\nystdi.dgn
DATE/TIME = 2/23/2004
USER = 2225

SIGNS TO BE INSTALLED

ITEM NO. SIGN PANEL	ITEM NO. SIGN SUPPORT	SIGN SUPPORT, NUMBER REQ'D PER SIGN	STATION LOCATION	TEXT	N.Y.S. M.U.T.C.D. NO.	APPROX. SIZE OF SIGN
645.7102 M	645.81M	2	45+150.0, LT	✳ END TO VERMONT 279 7	M13-23X M13-21X M3-2X (MOD) M3-1X	600X300 600X300 750X600 600X600 (1.17 m²)
645.7102 M	645.81M	1	42+082.0, LT		W1-3C	750X750 (0.56 m²)
645.73 M	645.8106 M	2	43+180.0, RT	RUTLAND 60 BENNINGTON 5 BRATTLEBORO 44 BENNINGTON SOUTHERN VT	G1-3C M14-26X M14-26X M2-5C M8-5C M14-42X M14-42X	2400X1050 600X200 600X200 600X600 600X600 525X375 525X375 (3.87 m²)
645.7102 M	645.81M	2	43+265.0, RT 43+265.0, LT	PEDESTRIANS BICYCLES AND HORSES PROHIBITED	R5-26C (MOD.)	900X900 (0.81 m²)
645.73 M	645.81M	1	143+320.0, LT	TROY 26 RUTLAND 60	G1-2C	1950X750 (1.46 m²)
645.73 M	645.8106 M	2	43+340.0, LT	TROY 26 BENNINGTON 5 BRATTLEBORO 44 SOUTHERN VT	G1-3C M14-26X M11-1C M8-5C M14-41X M14-41X	2400X1050 600X200 600X600 600X600 525X375 525X375 (3.75 m²)
645.73 M	645.81M	2	44+960.0, LT	TOWN OF HOOSICK	I12-2C	1050X750 (0.79 m²)
645.7102 M	645.81M	1	143+490.0, RT		W7-13C	300X900 (0.27 m²)

SIGNS TO BE REMOVED

ITEM NO.	STATION LOCATION	TEXT
647.01M	43+081.0, LT	
647.02 M	43+112.0, LT	"HOOSIC SELF STORAGE"

✳ PAYMENT FOR ALL VERMONT ROUTES 279 AND 9 SIGNS WILL BE MADE UNDER N.Y.S. M.U.T.C.D. NO. AND SIZE SHOWN. HOWEVER, SIGN MATERIALS, COLORS, LETTERING AND SPECIFICATIONS SHALL MEET THE REQUIREMENTS OF VERMONT STANDARD SHEET E-136BM INCLUDED IN THE SPECIAL PROVISIONS.

NOTE:
ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

SIGN TEXT DATA

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	62	92

BENNINGTON CONNECTOR S.H. 98-2
P.I.N. 1306.60
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426
RENSSELAER COUNTY

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NYSTDI.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 62 OF 92 DWG NO. STD-2

DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY C. KAHLBAUGH DRAFTED BY D. GOZALKOWSKI CHECKED BY T. BURTNICK DATE 2/04
IN CHARGE OF T. KARIS

FILE NAME = u\5116\sysdot\contract1\nystd1.dgn
DATE/TIME = 2/23/2004
USER = 2225

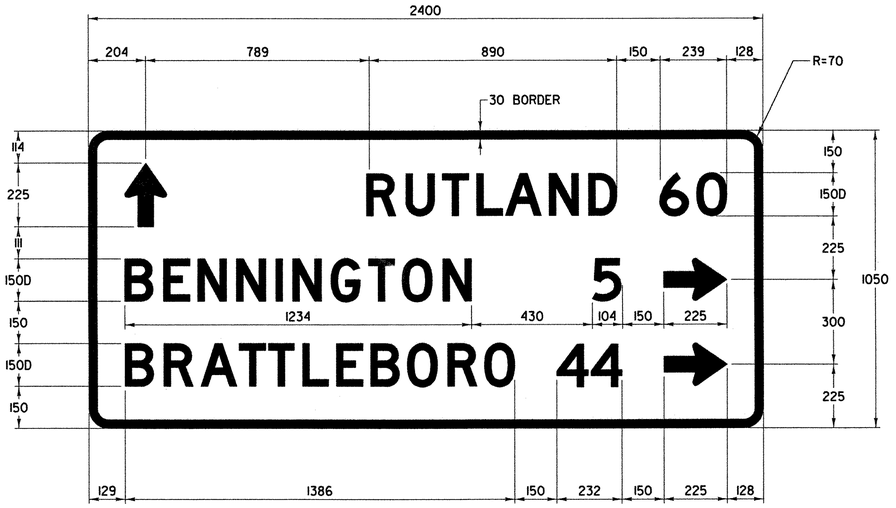
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	0146001	63	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

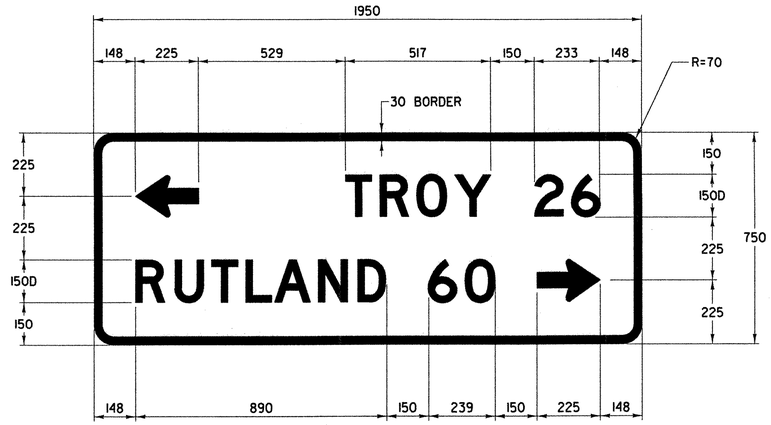
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY



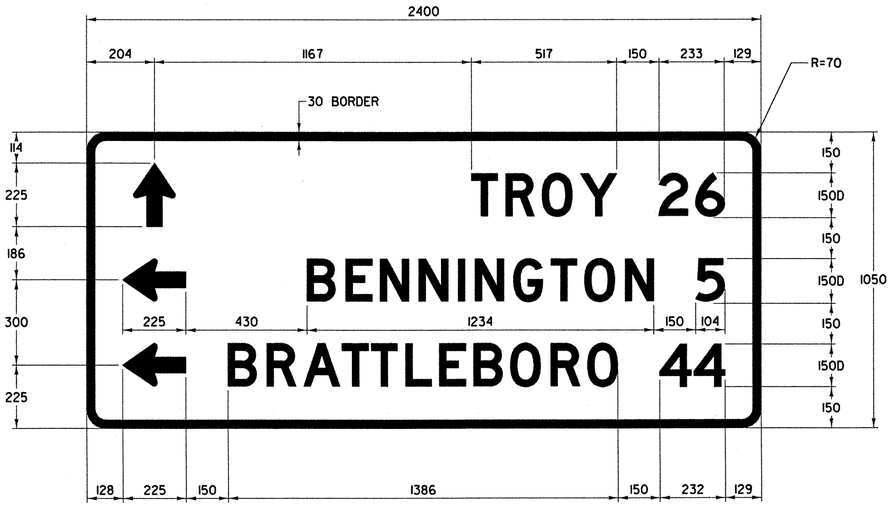
COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

STA. 43+180.0, RT



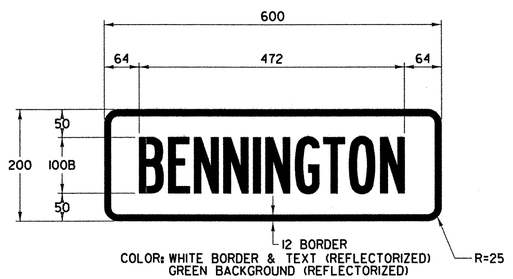
COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

STA. 143+320.0, RT



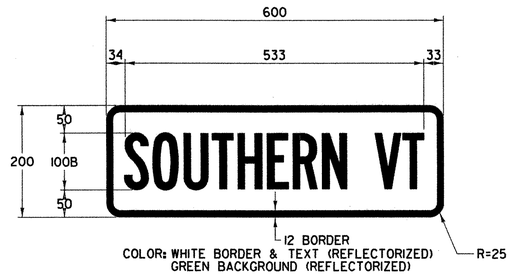
COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

STA. 43+340.0, LT



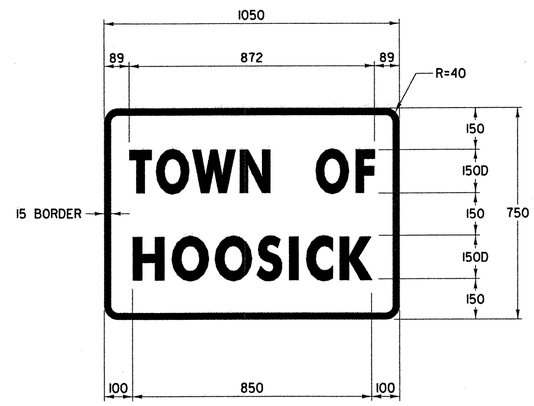
COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

STA. 43+180.0, RT



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

STA. 43+180.0, RT
STA. 43+340.0, LT



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

STA. 44+960.0, LT

NOTE:
ALL DIMENSIONS IN MILLIMETERS
UNLESS OTHERWISE NOTED.

TRAFFIC SIGN DETAIL SHEET

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. NYTSD3.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 63 OF 92 DWG NO. SD-1

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY D. GOZALKOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY T. BURTNICK DATE 2/04

FILE NAME = u:\5116\roadw\contract1\nytsd3.dgn
DATE/TIME = 2/23/2004
USER = 2225

NOT Metric

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	64	92

BENNINGTON CONNECTOR S.H. 98-2
P.I.N. 1306.60
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426
RENSSELAER COUNTY

NOTE:

1. SEE DWG'S. STD-1 TO STD-2 FOR SIGN TEXT DATA.

VT STATE PLANE GRID

LIMIT OF STRIPING
BEGIN EASTBOUND LANE WIDENING
BEGIN WESTBOUND LANE TAPER
STA. 42+880.000

END EASTBOUND LANE WIDENING
END WESTBOUND LANE TAPER
STA. 42+910.000

ITEM 685.12 M
100 mm YELLOW FULL
BARRIER LINES

ITEM 685.11 M
100 mm WHITE
SOLID LINE

BEGIN MEDIAN WIDENING
STA. 42+950.000

ITEM 685.11 M
100 mm WHITE
SOLID LINE

ITEM 646.0701 M
7
N 1409 2233 N

BEGIN EASTBOUND CLIMBING LANE WIDENING
STA. 43+055.000

SEE DWG. MT-2 FOR
DELINEATOR LOCATION TABLES
(TYP.)

STA. 43+082.0, LT

STA. 43+112.0, LT
"HOOSIC SELF STORAGE"

STA. 43+140.0, LT
STATE SPEED LIMIT 55

END EASTBOUND CLIMBING LANE WIDENING
BEGIN EASTBOUND FULL-WIDTH CLIMBING LANE
STA. 43+165.000

MATCH LINE STA. 43+180.000 DWG. SSP-2

3.7 m 42+900 3.6 m
3.4 m 3.6 m
3.6 m
3.6 m
43+000
3.6 m 1.738 m
3.6 m
43+100
3.6 m 3.559 m
3.6 m 3.6 m

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

ITEM 646.0802 M

ITEM 646.0801 M

ITEM 685.12 M
YELLOW HATCHED
MEDIAN STRIPING

ITEM 685.11 M
100 mm WHITE
BROKEN LINE

STA. 43+092.0, RT
SLOWER TRAFFIC KEEP RIGHT

TO BE REMOVED
BY OTHERS

BROWNS BROOK

STA. 43+140.0, RT
BENN HIST DISTS HISTORIC SITE
BENN BATTLE MONUMENT HISTORIC SITE

STA. 42+980.0, RT
TO VERMONT 279 EAST 7 TO VERMONT 9
KEEP RIGHT KEEP RIGHT

STA. 43+081.0, LT

DELINEATOR LEGEND

- WHITE DELINEATOR
- ITEM 646.0601 M, DELINEATOR, SINGLE UNIT, ONE WAY ON POST
- ITEM 646.0602 M, DELINEATOR, SINGLE UNIT, BACK TO BACK ON POST
- ITEM 646.0603 M, DELINEATOR, SINGLE UNIT, TWO WAY ON POST
- ITEM 646.0604 M DELINEATOR, SINGLE UNIT, THREE WAY ON POST
- ITEM 646.0801 M SNOWPLOWING MARKER, SINGLE UNIT
- ITEM 646.0802 M SNOWPLOWING MARKER, DOUBLE UNIT
- S ITEM 646.0803 M SUPPLEMENTARY SNOWPLOWING MARKERS

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = ----------
NEW = ----------

10 0 10 m
1: 500

SIGNING AND STRIPING PLAN STA. 42+880 TO STA. 43+180

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NYSSPI.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 64 OF 92 DWG. NO. SSP-1

CHECKED BY D. GOZALKOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY T. BURTNICK DATE 2/04
CHECKED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH
DESIGNED BY T. KARIS IN CHARGE OF

FILE NAME = u:\s1116\vgsdot\contract1\vgspl.dgn
DATE/TIME = 2/23/2004
USER = 2225

NOTE:
1. SEE DWG'S. STD-1 & STD-2 FOR SIGN TEXT DATA.

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	65	92

BENNINGTON CONNECTOR S.H. 98-2
P.I.N. 1306.60
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426
RENSSELAER COUNTY

DELINEATOR LEGEND

- WHITE DELINEATOR
- ITEM 646.0601 M, DELINEATOR, SINGLE UNIT, ONE WAY ON POST
- ITEM 646.0602 M, DELINEATOR, SINGLE UNIT, BACK TO BACK ON POST
- ITEM 646.0603 M, DELINEATOR, SINGLE UNIT, TWO WAY ON POST
- ITEM 646.0604 M DELINEATOR, SINGLE UNIT, THREE WAY ON POST
- ITEM 646.0801 M SNOWPLOWING MARKER, SINGLE UNIT
- ITEM 646.0802 M SNOWPLOWING MARKER, DOUBLE UNIT
- S ITEM 646.0803 M SUPPLEMENTARY SNOWPLOWING MARKERS

VT STATE PLANE GRID

STA. 43+280.0, LT — EAST 7 / TO VERMONT 9 / WEST 7
STA. 43+340.0, LT — TROY 26 / BENNINGTON 5 / BRATTLEBORO 44
STA. 43+245.0, LT
STA. 43+265.0, LT — PEDESTRIANS BICYCLES AND HORSES PROHIBITED
STA. 43+180.0, LT — WEST 7
STA. 43+360.0, RT — STATE SPEED LIMIT 55
STA. 43+335.0, RT — TO VERMONT 279
STA. 43+300.0, RT — SLOWER TRAFFIC KEEP RIGHT
STA. 143+440.0, LT — WEST 7 / TO VERMONT 279
STA. 43+265.0, RT — PEDESTRIANS BICYCLES AND HORSES PROHIBITED
STA. 43+260.0, RT — STOP
STA. 143+320.0, LT — TROY 26 / RUTLAND 60
STA. 143+500.0, LT — STOP AHEAD
STA. 43+180.0, RT — RUTLAND 60 / BENNINGTON 5 / BRATTLEBORO 44
STA. 43+230.9, RT — STOP
STA. 143+305.0, RT — EAST 7 / TO VERMONT 9
STA. 43+210.0, RT — TO VERMONT 279 / EAST 7 / TO VERMONT 9
STA. 143+285.0, LT — WEST 7 / TO VERMONT 279
STA. 143+365.0, RT — STATE SPEED LIMIT 55
STA. 143+490.0, RT

S.H. 1426 STA. 43+233.243 BK. = S.H. 1426 STA. 143+233.243 AHD.
BEGIN S.H. 98-2 STA. 43+233.243
BEGIN MEDIAN TAPER STA. 43+390.000
END MEDIAN WIDENING STA. 43+240.000
MATCH LINE STA. 43+420.000 DWG. SSP-3
MATCH LINE STA. 43+180.000 DWG. SSP-1
LIMIT OF STRIPING STA. 143+490.000
WHITEHOUSE BRIDGE
VERMONT STATE LINE S.H. 1426
BROWNS BROOK
BENNINGTON CONNECTOR S.H. 98-2
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

ITEM 685.12 M YELLOW HATCHED MEDIAN STRIPING
ITEM 685.11 M 100 mm WHITE BROKEN LINE (TYP.)
ITEM 685.11 100 mm WHITE SOLID LINE
ITEM 685.11 M 100 mm WHITE SOLID LINE
ITEM 688.04 M WHITE PREFORMED PAVEMENT SYMBOLS (TYP.)
ITEM 688.03 M WHITE PREFORMED PAVEMENT LETTERS (TYP.)
ITEM 646.0802 M
ITEM 646.0705 M (MOUNT W/DELINEATOR) — 91 5G / 1 401 / 1 000
ITEM 646.0701 M — 7 / 1 409 / 2235
ITEM 685.12 M 100 mm YELLOW FULL BARRIER LINES
ITEM 646.0803 M (TYP.)
ITEM 685.11 M 100 mm WHITE SOLID LINE
ITEM 646.0802 M
ITEM 688.01 M 450 mm WHITE PREFORMED STOP LINE
ITEM 646.0801 M
ITEM 646.0705 M (MOUNT W/DELINEATOR) — 7 / 1 409 / 2234
ITEM 646.0701 M — 7 / 1 409 / 2236
SEE DWG. MT-2 FOR DELINEATOR LOCATION TABLES (TYP.)

CHEVRON
CHEVRON

+220 R=2.23 m
+255 R=0.6 m
+251
+265
R=40 m
143+300
143+400
143+500
43+300
3.6 m
4.8 m

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

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = ----------
NEW = ——————

10 0 10 m
1: 500

SIGNING AND STRIPING PLAN STA. 43+180 TO STA. 43+420

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. NYSSP2.DGN
PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/I
PROJ. NO. P.I.N. 1306.60
SHEET 65 OF 92 DWG. NO. SSP-2

DESIGNED BY D. EMERICH — CHECKED BY D. COZALKOWSKI — DRAFTED BY C. KAHLBAUGH — CHECKED BY T. BURTNICK — DATE 2/04
ESTIMATED BY D. EMERICH — CHECKED BY D. COZALKOWSKI — IN CHARGE OF T. KARIS
FILE NAME = u:\5116\vngdot\contract1\vpssp2.dgn
DATE/TIME = 2/23/2004
USER = 2225

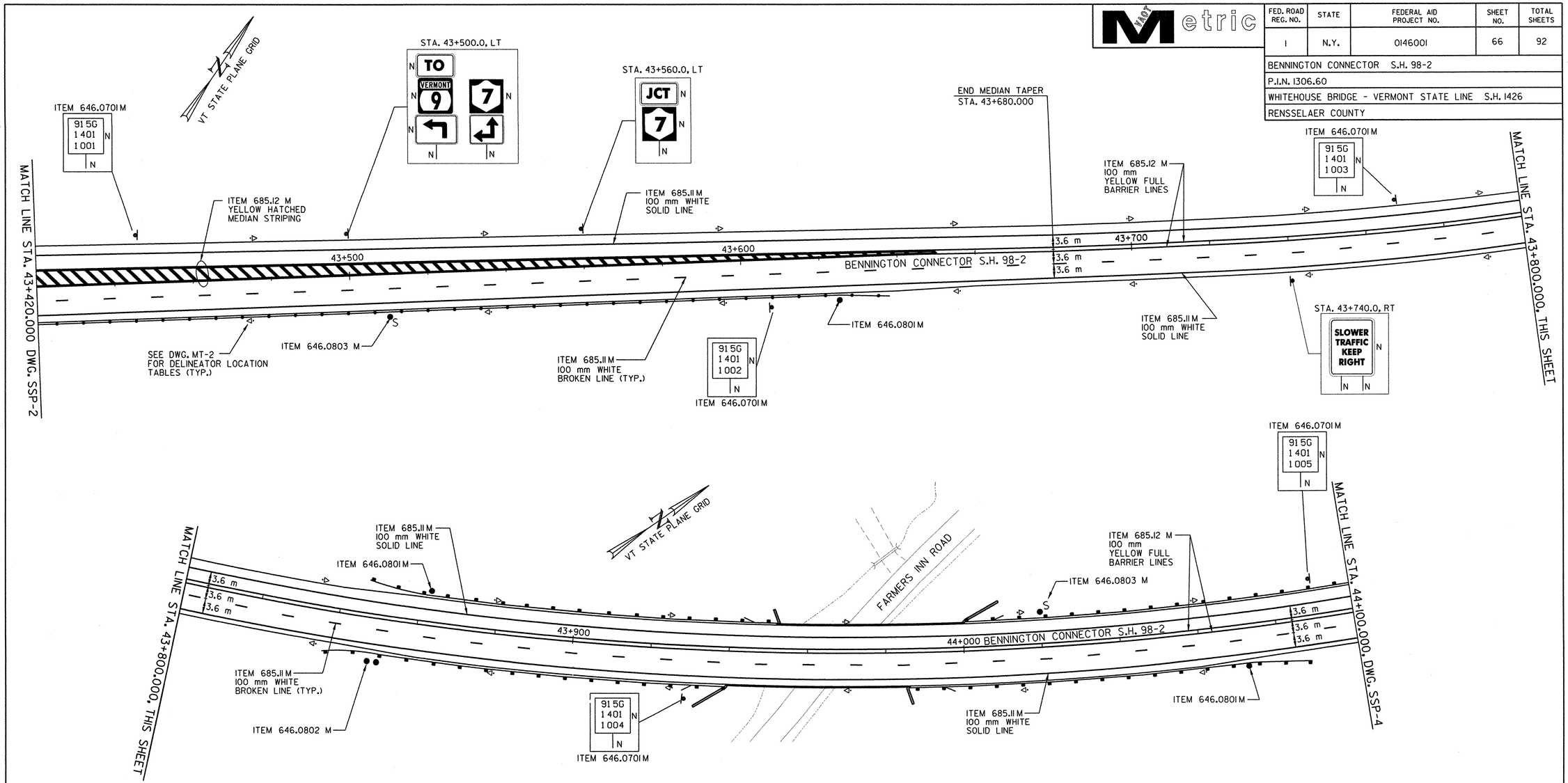
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	0146001	66	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY



DELINEATOR LEGEND

- WHITE DELINEATOR
- ITEM 646.0601M, DELINEATOR, SINGLE UNIT, ONE WAY ON POST
- ITEM 646.0602 M, DELINEATOR, SINGLE UNIT, BACK TO BACK ON POST
- ITEM 646.0603 M, DELINEATOR, SINGLE UNIT, TWO WAY ON POST
- ITEM 646.0604 M DELINEATOR, SINGLE UNIT, THREE WAY ON POST
- ITEM 646.0801M SNOWPLOWING MARKER, SINGLE UNIT
- ITEM 646.0802 M SNOWPLOWING MARKER, DOUBLE UNIT
- S ITEM 646.0803 M SUPPLEMENTARY SNOWPLOWING MARKERS

SIGN LEGEND

R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = ----------
NEW = ——————

10 0 10 m
1: 500

NOTE:
1. SEE DWG'S. STD-1 & STD-2 FOR SIGN TEXT DATA.

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

SIGNING AND STRIPING PLAN STA. 43+420 TO STA. 44+100

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NYSSP3.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 66 OF 92 DWG NO. SSP-3

DESIGNED BY D. EMERICH CHECKED BY D. EMERICH
DRAFTED BY D. GOZALKOWSKI CHECKED BY C. KAHLBAUGH
ESTIMATED BY D. EMERICH CHECKED BY I. BURTNICK DATE 2/04
IN CHARGE OF T. KARIS CHECKED BY D. GOZALKOWSKI

FILE NAME = \a\5115\nysdot\contract1\nyssp3.dgn
DATE/TIME = 2/23/2004
USER = 2225

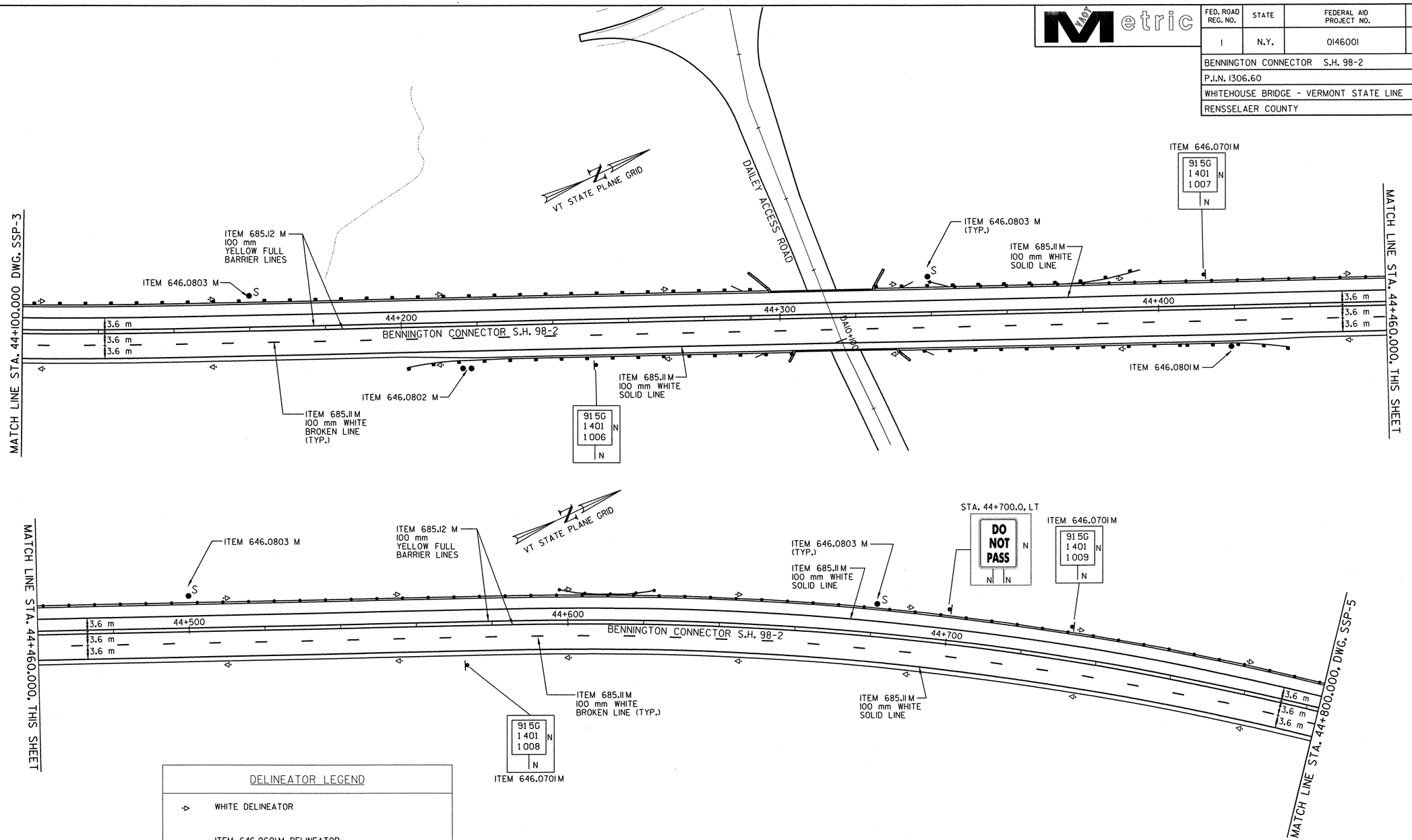
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	67	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY



DELINEATOR LEGEND

- WHITE DELINEATOR
- ITEM 646.0601 M, DELINEATOR, SINGLE UNIT, ONE WAY ON POST
- ITEM 646.0602 M, DELINEATOR, SINGLE UNIT, BACK TO BACK ON POST
- ITEM 646.0603 M, DELINEATOR, SINGLE UNIT, TWO WAY ON POST
- ITEM 646.0604 M DELINEATOR, SINGLE UNIT, THREE WAY ON POST
- ITEM 646.0801 M SNOWPLOWING MARKER, SINGLE UNIT
- ITEM 646.0802 M SNOWPLOWING MARKER, DOUBLE UNIT
- S ITEM 646.0803 M SUPPLEMENTARY SNOWPLOWING MARKERS

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

SIGN LEGEND

R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = ----------
NEW = ——————

10 0 10 m
1: 500

NOTE:
1. SEE DWG'S. STD-1 & STD-2 FOR SIGN TEXT DATA.

SIGNING AND STRIPING PLAN STA. 44+100 TO STA. 44+800

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	T.P.K.	DATE 2/04

DESIGN FILE NO. NYSSP4.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 67 OF 92 DWG. NO. SSP-4

DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY
DRAFTED BY C. KAHLBAUGH CHECKED BY T. BURTNICK DATE 2/04
CHECKED BY D. GOZALKOWSKI
IN CHARGE OF T. KARIS

FILE NAME = u:\515\projects\contract1\nysssp4.dgn
DATE/TIME = 2/23/2004
USER = 2225

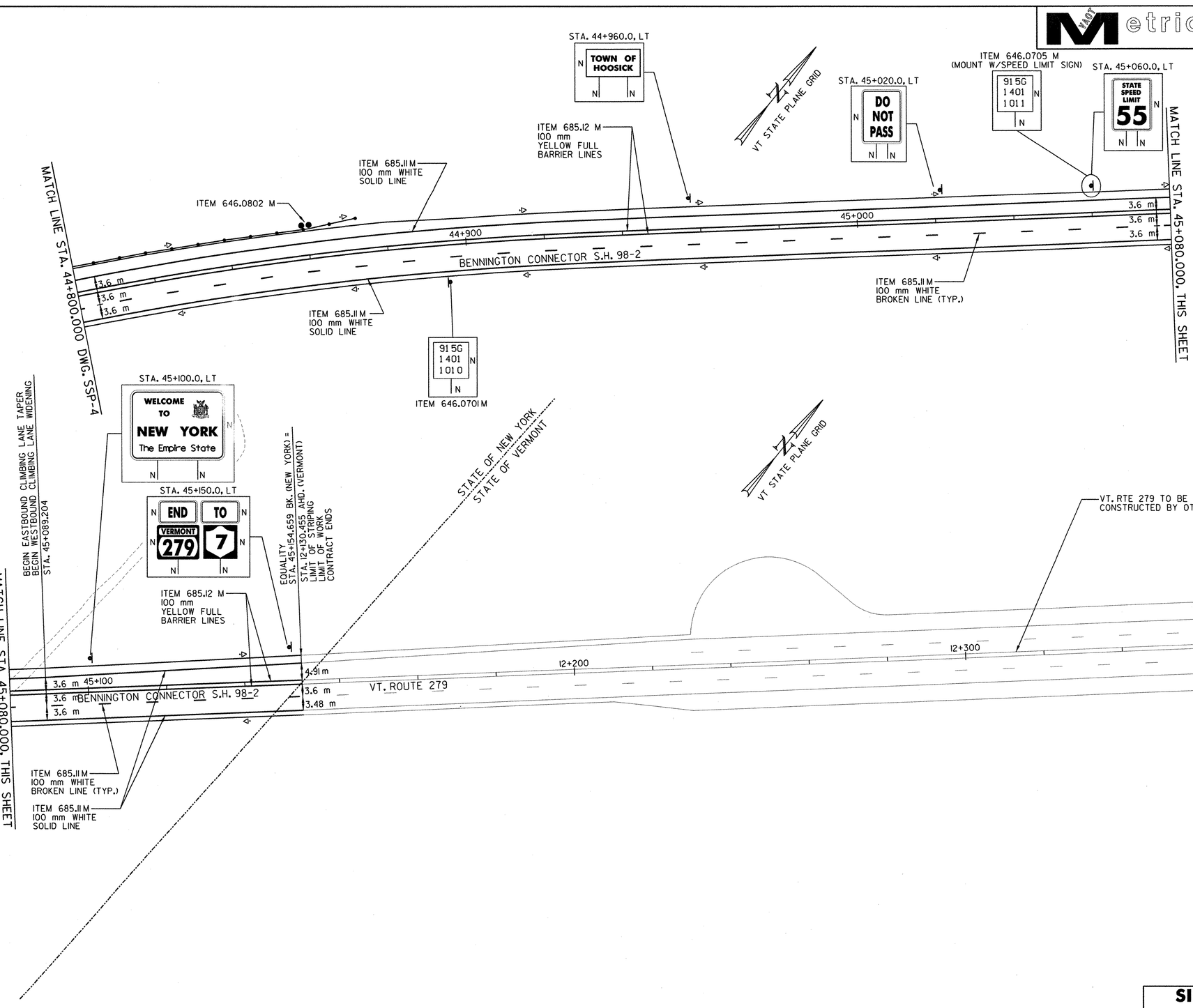
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	0146001	68	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY



DELINEATOR LEGEND

- WHITE DELINEATOR
- ITEM 646.0601 M, DELINEATOR, SINGLE UNIT, ONE WAY ON POST
- ITEM 646.0602 M, DELINEATOR, SINGLE UNIT, BACK TO BACK ON POST
- ITEM 646.0603 M, DELINEATOR, SINGLE UNIT, TWO WAY ON POST
- ITEM 646.0604 M DELINEATOR, SINGLE UNIT, THREE WAY ON POST
- ITEM 646.0801 M SNOWPLOWING MARKER, SINGLE UNIT
- ITEM 646.0802 M SNOWPLOWING MARKER, DOUBLE UNIT
- S ITEM 646.0803 M SUPPLEMENTARY SNOWPLOWING MARKERS

NOTE:
1. SEE DWG'S. STD-1 & STD-2 FOR SIGN TEXT DATA.

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = ----------
NEW = ——————

10 0 10 m
1: 500

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

SIGNING AND STRIPING PLAN STA. 44+800 TO STA. 45+154.659

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NYSSP5.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 68 OF 92 DWG NO. SSP-5

IN CHARGE OF T.KARIS DESIGNED BY D.EMERICH CHECKED BY D.GOZALKOWSKI ESTIMATED BY D.EMERICH CHECKED BY C.KAHLBAUGH DRAFTED BY D.GOZALKOWSKI CHECKED BY T.BURTNICK DATE 2/04

FILE NAME = u:\515\syrdot\contract1\vgsp5.dgn
DATE/TIME = 2/23/2004
USER = 2225

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	69	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

GENERAL NOTES:

1. ALL TRAFFIC SIGNAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH NEW YORK STATE STANDARD SHEETS M680-1 THRU M680-17 INCLUSIVE, AS APPLICABLE, EXCEPT AS MODIFIED BELOW OR IN THE CONTRACT PLANS.
2. ALL TRAFFIC SIGNAL ITEMS SHALL MEET THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED JANUARY 2, 2002 WITH ALL CURRENT ADDENDA UNLESS OTHERWISE STATED IN THE CONTRACT PLANS.
3. WHERE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (N.E.M.A.) SPECIFICATION EQUIPMENT IS TO BE INSTALLED, SUCH EQUIPMENT SHALL MEET ALL REQUIREMENTS OF N.E.M.A. SPECIFICATION NUMBER TS1-1989 AS AMENDED.
4. WHERE CONVENTIONAL N.E.M.A. SPECIFICATION OR INTERSECTION FLASHER EQUIPMENT IS TO BE INSTALLED, IT SHALL BE INSPECTED BY NEW YORK STATE SIGNAL MAINTENANCE FORCES BEFORE THE SIGNAL IS ENERGIZED. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN EACH SIGNAL IN CONTINUOUS OPERATION AS SPECIFIED BY THE TABLE OF OPERATIONS FOR 30 DAYS BEFORE FINAL ACCEPTANCE IS GRANTED.
5. UPON COMPLETION OF WORK N.Y.S.D.O.T. TRAFFIC SIGNAL MAINTENANCE PERSONNEL WILL PERFORM AN INSPECTION OF THE SIGNAL SYSTEM. AT THE TIME OF THE INSPECTION, THE CONTRACTOR SHALL UNBAG THE NEW SIGNAL HEADS AND SHALL PROVIDE ACCESS TO ALL PULLBOXES FOR INSPECTION PURPOSES. THE CONTRACTOR SHALL BE NOTIFIED OF ANY DEFECTS FOUND DURING THE INSPECTION AND WILL MAKE THE NECESSARY CORRECTIONS BEFORE THE SIGNAL WILL BE ACCEPTED. THE CONTRACTOR SHALL PROVIDE SUFFICIENT PERSONNEL AND TRAFFIC CONTROL DEVICES TO SAFELY MAINTAIN TRAFFIC THROUGH THE INTERSECTION WHILE THE INSPECTION IS BEING PERFORMED. THE SIGNAL HEADS SHALL BE REBAGGED SHOULD THE INSPECTION FAIL.
6. THE CONTRACTOR WILL NOT BE PERMITTED TO CLOSE DOWN ANY TRAFFIC LANES DURING PEAK HOURS (7AM-9AM AND 3PM-6PM MONDAY THRU FRIDAY), AND AS OTHERWISE NOTED, UNLESS WRITTEN PERMISSION IS GRANTED IN ADVANCE FROM THE REGIONAL TRAFFIC ENGINEER.
7. CONSTRUCTION SIGNS SHALL BE INSTALLED ON ALL LEGS OF THE INTERSECTION WHILE THE CONTRACTOR IS WORKING ON THE INTERSECTION. ADDITIONAL CONSTRUCTION SIGNS SHALL BE INSTALLED AS REQUIRED BY THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES OR AS DIRECTED BY THE RESIDENT ENGINEER.
8. UNLESS OTHERWISE NOTED, THE STATE OF NEW YORK SHALL HAVE MAINTENANCE JURISDICTION OVER THE SIGNAL IN THIS CONTRACT UPON COMPLETION OF ITS INSTALLATION AND OFFICIAL ACCEPTANCE.
9. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY THAT WILL BE SUPPLYING POWER TO TRAFFIC SIGNAL EQUIPMENT AT THE INTERSECTION WITHIN 30 DAYS OF THE CONTRACT AWARD. THE CONTRACTOR SHALL MEET ALL REQUIREMENTS OF THE NEW YORK BOARD OF FIRE UNDERWRITERS IN THEIR SIGNAL INSTALLATION AND IT MUST PASS A FIRE UNDERWRITERS INSPECTION BEFORE SERVICE CONNECTION WILL BE MADE BY THE UTILITY COMPANY. THE COST OF THIS INSPECTION SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS TRAFFIC SIGNAL ITEMS.
10. THE LOCATIONS OF ALL UNDERGROUND OBJECTS HAVE NOT BEEN SHOWN ON THE PLANS. THE CONTRACTOR SHALL SATISFY HIMSELF OF EXISTING CONDITIONS AND SUPPORT AND PROTECT ALL LINES ENCOUNTERED IN THE TRENCHING AND EXCAVATION OPERATIONS.
11. IF, AT ANY TIME DURING THE INSTALLATION OF THE POLES, SIGNAL SPAN WIRE(S), OR MESSENGER CABLE(S), IT IS DISCOVERED THAT THE MINIMUM CLEARANCES FROM PRIMARY AND/OR SECONDARY POWER CONDUCTORS AS REQUIRED BY SECTION 23 OF THE NATIONAL ELECTRICAL SAFETY CODE (ANSI STANDARD C2-1997) AND LOCAL UTILITY CODES CANNOT BE ACHIEVED, THE UTILITY COMPANY OWNING SUCH CONDUCTORS SHALL BE NOTIFIED IN WRITING OF THE PROBLEM. NO FURTHER WORK SHALL BE DONE UNTIL SAID POWER LINES HAVE BEEN RELOCATED TO PROVIDE THE PROPER CLEARANCES.
12. UNDER NO CONDITION SHALL THE CONTRACTOR MAKE HIS OWN SERVICE CONNECTION. ALL SERVICE CONNECTIONS SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANY.
13. WHERE UNFORESEEN UNDERGROUND UTILITIES MAKE IT NECESSARY TO RELOCATE SIGNAL POLES MORE THAN 1.5 m FROM THEIR ORIGINAL LOCATIONS AS SHOWN ON THE CONTRACT PLANS, THE NYSDOT REGIONAL TRAFFIC ENGINEER SHALL BE NOTIFIED IMMEDIATELY AND ALTERNATE LOCATIONS WILL BE SUPPLIED BY THE DESIGNERS.
14. THE COST OF THE CONDUIT WITHIN THE POLE FOUNDATION SHALL BE INCLUDED IN THE PRICE BID FOR THE FOUNDATION. ALL POLE BASES SHALL HAVE ONE UNUSED CONDUIT IN THE BASE WHICH WILL BE RUN TO THE NEAREST PULLBOX. THE COST OF THE CONDUIT BETWEEN THE BASE AND THE PULLBOX WILL BE PAID FOR UNDER THE APPROPRIATE CONDUIT ITEM.
15. WHERE ONE CONDUIT IS TOO SMALL TO PERMIT THE PASSAGE OF THE REQUIRED SIGNAL WIRING, TWO OR MORE CONDUITS SHALL BE USED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE NUMBER OF CONDUITS NEEDED.
16. INDIVIDUAL LENGTHS OF GALVANIZED STEEL CONDUIT SHALL BE CONNECTED TOGETHER WITH THREADED GALVANIZED STEEL COUPLINGS.
17. WHERE SOUND BEDROCK IS ENCOUNTERED DURING POLE EXCAVATION OPERATIONS, AND THE DEPTH OF SOIL OVER THE ROCK IS ONE THIRD OR LESS THAN THE 'MINIMUM EMBEDMENT' LENGTH GIVEN IN THE TABLE ON STANDARD SHEET M680-13, THEN THE FOOTING LENGTH MAY BE DECREASED SO AS TO PROVIDE AN EMBEDMENT INTO THE ROCK EQUAL TO THE FOOTING DIAMETER PLUS 600 mm. FOR DEEPER OVERBURDENS, THE FOOTING LENGTH MAY BE DECREASED TO PROVIDE AN EMBEDMENT INTO THE ROCK EQUAL TO THE FOOTING DIAMETER. IF THE RESULTING DEPTH IS LESS THAN THE LENGTH OF THE ANCHOR BOLTS, THE CONTRACTOR SHALL EXCAVATE TO THE LENGTH OF THE ANCHOR BOLTS PLUS 150 mm.
18. FOR NEW ANCHOR BASE SIGNAL POLE INSTALLATIONS:
    A) THE CONCRETE POLE FOUNDATION SHALL CURE FOR A MINIMUM OF 14 DAYS BEFORE THE SIGNAL POLE IS ERECTED, AND FOR A MINIMUM OF 28 DAYS BEFORE THE SPAN WIRE AND SIGNAL HEADS ARE INSTALLED.
    B) THE COST OF THE ANCHOR BOLTS AND THE STEEL REINFORCING SHALL BE INCLUDED IN THE PRICE BID UNDER ITEM 680.5001M - POLE EXCAVATION AND CONCRETE FOUNDATION.
19. ALL ANCHOR BASE TRAFFIC SIGNAL SPAN WIRE POLES SHALL BE EQUIPPED WITH ANCHOR BOLT COVERS.
20. ALL POLES SHALL BE EQUIPPED WITH A GROUNDING TERMINAL ACCESSIBLE THROUGH THE HANDHOLE IN THE POLE AS PER SECTION 724-03 OF THE NYSDOT STANDARD SPECIFICATIONS. THIS TERMINAL SHALL BE LOCATED ON THE OPPOSITE SIDE OF THE POLE FROM THE HANDHOLE. TERMINALS LOCATED ADJACENT TO THE HANDHOLE SHALL NOT BE ACCEPTABLE.
21. ALL TRAFFIC SIGNAL POLES SHALL BE INSTALLED SO THAT THE POLES SHALL HAVE A MINUMUM RAKE OF 1/4 OF THE DIAMETER OF THE SIGNAL POLE MEASURED AT ITS BASE AFTER LOADING.
22. ALL HOLES FOR L.B. CONDULETS AND THIMBLEBOLTS SHALL BE DRILLED. THE USE OF CUTTING TORCHES SHALL NOT BE PERMITTED UNLESS WRITTEN PERMISSION IS GRANTED IN ADVANCE BY THE NYSDOT REGIONAL TRAFFIC ENGINEER.
23. ALL THIMBLEBOLTS USED FOR TRAFFIC SIGNAL SPAN WIRE AND/OR MESSENGER CABLE ATTACHMENTS AS SHOWN ON STANDARD SHEETS M680-1, M680-10, M680-14 AND M680-14RI SHALL BE 3/4 NPS AND SHALL HAVE A BREAKING STRENGTH EQUAL TO THAT OF THE ATTACHED SPAN WIRE AS SHOWN IN NOTE 6 ON STANDARD SHEET M680-1. THIMBLEBOLTS ARE TO BE USED IN PLACE OF THE EYEBOLTS SPECIFIED ON THE STANDARD SHEETS.
24. WHERE SIGNAL CABLE IS INSTALLED ON A SPAN WIRE OR MESSENGER CABLE, IT SHALL BE SUPPORTED AT INTERVALS OF NOT GREATER THAN 375 mm BY COPPERWELD (COPPER COVERED STEEL) CABLE RINGS APPROVED BY THE RESIDENT ENGINEER. STEEL OR PLASTIC CABLE BANDS, OR TAPING WILL NOT BE PERMITTED.
25. POWER SHALL BE SUPPLIED TO THE SIGNALS VIA A 1NPS METAL STEEL CONDUIT TO BE PAID FOR UNDER ITEM 680.5201O3 M - CONDUIT, METAL STEEL, ZINC COATED, 1NPS. THE PRICE BID UNDER THIS ITEM SHALL INCLUDE THE COST OF INSTALLING THE CONDUIT AND WEATHERHEAD AS WELL AS THE COST OF ATTACHING THE METER SOCKET (SUPPLIED BY THE UTILITY COMPANY FURNISHING POWER) TO THE SIGNAL POLE AS SHOWN ON THE ELECTRIC SERVICE DETAIL(S) IN THE PLANS. FOR NIAGARA MOHAWK INSTALLATIONS, THE METER SOCKET SHALL BE SUPPLIED UNDER ITEM 01680.9092 M.
26. THE SIGNAL SYSTEM SHALL BE EQUIPPED WITH AN ITEM 15680.94 M - RAINTIGHT DISCONNECT BOX WHICH SHALL BE INSTALLED BETWEEN THE METER SOCKET AND THE CONTROLLER. THE SERVICE CABLE SHALL BE RUN FROM THE DISCONNECT BOX THROUGH A CHASE NIPPLE THROUGH THE BACK OF THE DISCONNECT BOX INTO THE SIGNAL POLE AND THENCE THROUGH THE LARGE L.B. CONDULET INTO THE CONTROLLER CABINET.
27. THE LOCATION AND ORIENTATION OF THE POLE MOUNTED CABINET SHALL BE BASED ON THE FOLLOWING:
    A) PROVIDING ACCESS TO THE CONTROLLER FROM WITHIN THE RIGHT OF WAY.
    B) PROVIDING PROTECTION TO THE CONTROLLER FROM SNOWPLOWS AND ERRANT VEHICLES.
    C) PREVENTING THE CONTROLLER FROM OVERHANGING THE SIDEWALK OR PRESENTING A HAZARD TO PEDESTRIANS.
    D) PROVIDING VISIBILITY OF THE SIGNAL HEADS DURING MAINTENANCE OPERATIONS.
    THE CABINET SHALL BE INSTALLED SO THAT THE BOTTOM OF THE CABINET IS 1.1m ABOVE THE STANDING PAD.
28. EACH PHASE SHALL HAVE ITS OWN GROUND WIRE.
29. A CARD SHALL BE PLACED ON THE INSIDE DOOR OF EACH CONTROLLER CABINET LISTING ALL THE COMPONENT PARTS BY SERIAL NUMBER, THE DATE OF INSTALLATION, AND DATE OF OFFICIAL OPERATION. WHERE NEW YORK STATE MICROCOMPUTERS ARE TO BE USED, THIS WILL BE DONE BY THE NYSDOT REGIONAL MAINTENANCE FORCES.
30. BALANCE ADJUSTERS AND SWIVEL BALANCERS WILL BE INSTALLED AT EACH SIGNAL HEAD ASSEMBLY.
31. ON ALL SIGNAL HEAD ASSEMBLIES ALL FEMALE THREADED CONNECTING HARDWARE SHALL BE MANUFACTURED WITH TWO SET SCREWS AND ALL THREADED PIPE NIPPLES SHALL HAVE TAPERED THREADS.
32. THE BOTTOMS OF ALL SINGLE SECTION TRAFFIC SIGNAL HEADS SHALL BE LOCATED A MINIMUM OF 5.7 m TO 5.9 m ABOVE THE PAVEMENT SURFACE.
33. ALL SPAN WIRE CONNECTIONS TO THE SIGNAL HEADS SHALL BE MADE DIRECTLY TO THE TERMINAL BLOCK(S) INSIDE OF EACH SIGNAL HEAD ASSEMBLY; PIGTAILS AND EXPOSED SPLICES SHALL NOT BE PERMITTED. WHERE TWO SIGNAL HEADS ARE TO BE WIRED FROM THE SAME CABLE, THE SIGNALS SHALL BE DAISY CHAINED WITH ONE LENGTH OF WIRE RUNNING FROM THE CONTROLLER ENTERING THE FIRST SIGNALS WEATHER HEAD AND A SECOND LENGTH LEAVING THE WEATHER HEAD AND RUNNING TO THE OTHER SIGNALS WEATHER HEAD.
34. ONCE TRAFFIC SIGNAL HEAD ASSEMBLIES HAVE BEEN INSTALLED AND ADJUSTED IN THE FIELD TO THE SATISFACTION OF NYSDOT TRAFFIC MAINTENANCE PERSONNEL, THE CONTRACTOR SHALL APPLY A BEAD OF SILICONE SEALANT AROUND THE SERRATED LOCK RING AT ALL LOCATIONS WHERE VERTICAL PIPE NIPPLES ARE ATTACHED TO THE TOP SURFACES OF BOTH TRAFFIC SIGNAL SECTIONS AND PIPE CROSS BODIES TO PREVENT WATER INFILTRATION INTO THE SIGNAL ASSEMBLY.

LEGEND		
PROPOSED	EXISTING	DESCRIPTION
●	○	SIGNAL POLE
●■	○□	POLE MOUNTED CONTROLLER
——	— — —	SPAN WIRE ASSEMBLY
▬	▭	CONDUIT
②	⑥	PULLBOX (TRAFFIC SIGNALS & NUMBER)
●→	○→	TRAFFIC SIGNAL HEAD - 1 WAY
↕	↕	TRAFFIC SIGNAL HEAD - 2 WAY
③		SIGNAL FACE & NUMBER
∅		PHASE
▬	▭	REFLECTORIZED PAV'T STRIPES
●	○	UTILITY POLE
⊣		OVERHEAD TRAFFIC SIGN

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

GENERAL NOTES AND LEGEND

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY C.A.P. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY M.R.W. DATE 2/04

DESIGN FILE NO. NYTSNI-FLASH.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

SHEET 69 OF 92 DWG NO. TSN-1

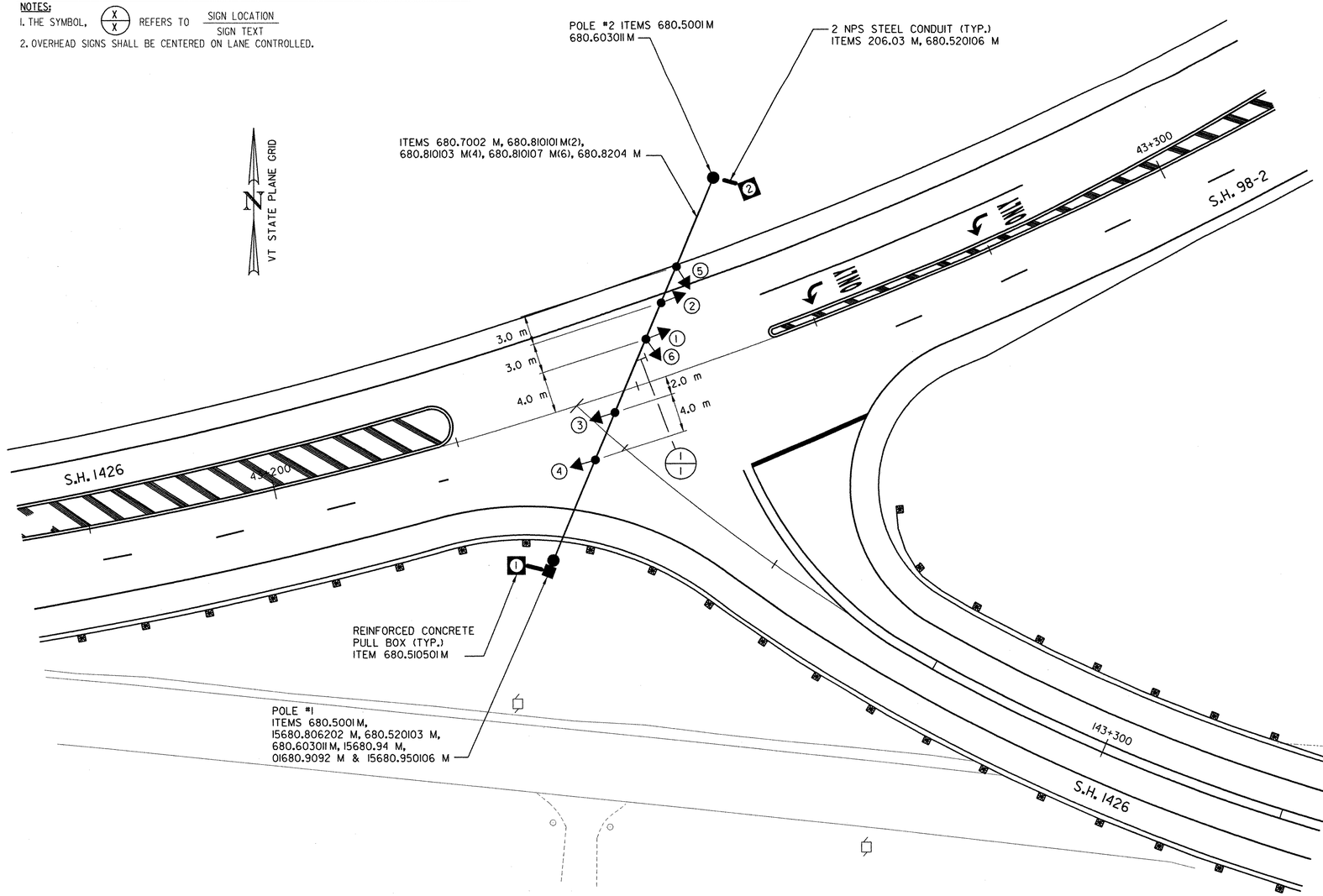
CHECKED BY M. WIESZCHOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY I. BURTNICK DATE 2/04
ESTIMATED BY C. PRISK
DESIGNED BY C. PRISK CHECKED BY M. WIESZCHOWSKI
IN CHARGE OF T. KARIS
FILE NAME = u:\S1R\vgsdot\contract1\vgtsni-flash.dgn
DATE/TIME = 2/23/2004
USER = 2225

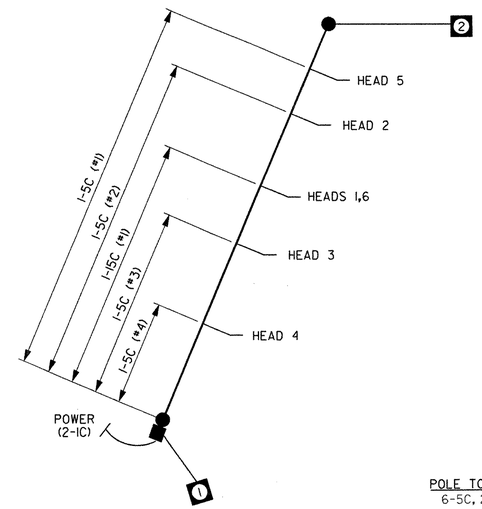
SIGNS TO BE INSTALLED						
ITEM NO.	TEXT NO.	LOCATION NO.	TEXT	MUTCD NO.	APPROX. SIZE OF SIGN	TYPE OF MOUNT
680.8204 M	1	1	ONLY	R3-22C	762 mm x 914 mm	SPAN WIRE

NOTES:
1. THE SYMBOL, (X/X) REFERS TO SIGN LOCATION / SIGN TEXT
2. OVERHEAD SIGNS SHALL BE CENTERED ON LANE CONTROLLED.

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	70	92

BENNINGTON CONNECTOR S.H. 98-2
P.I.N. 1306.60
WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426
RENSSELAER COUNTY





POLE TO CONTROLLER
6-5C, 2-1C (POWER)

WIRING DIAGRAM
(N.T.S.)

TABLE OF SIGNAL POLES				
POLE NUMBER	LOCATION	LENGTH	DESIGN LOAD	FOOTING MOMENT
1	43+226.2, 14.8 m RT.	11m	30 KN	316.5 KN-m
2	43+255.2, 18.1 m LT.	11m	30 KN	316.5 KN-m

TABLE OF OPERATIONS						
PHASE	FACES					
	1	2	3	4	5	6
FLASHING OPERATION	FY	FY	FY	FY	FR	FR
DISPLAY						
ALL LENSES SHALL BE 300 mm DIA. LED	Ⓨ	Ⓨ	Ⓨ	Ⓨ	Ⓡ	Ⓡ

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

5 0 5 m
1: 250

TRAFFIC SIGNAL PLAN

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY C.A.P. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY M.R.W. DATE 2/04
DESIGN FILE NO. NYTSPI-FLASH.DGN
PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1
PROJ. NO. P.I.N. 1306.60
SHEET 70 OF 92 DWG NO. TSP-1

DESIGNED BY C. PRISK CHECKED BY T. KARIS
ESTIMATED BY C. PRISK CHECKED BY M. WIESZCHOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY T. BURTNICK DATE 2/04
FILE NAME = u:\511f\vugdot\contract1\vugtspi-flash.dgn
DATE/TIME = 2/23/2004
USER = 2225

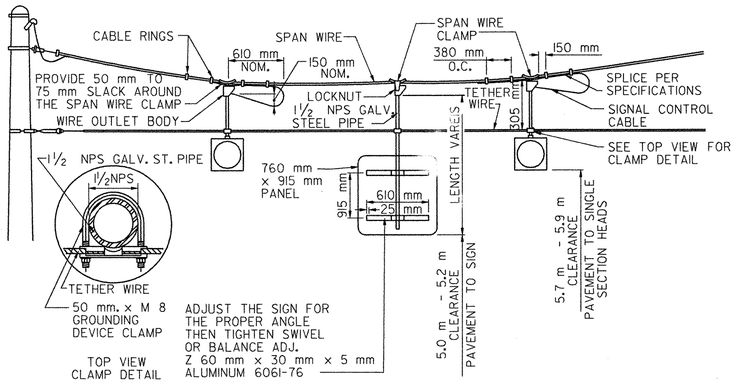
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	71	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

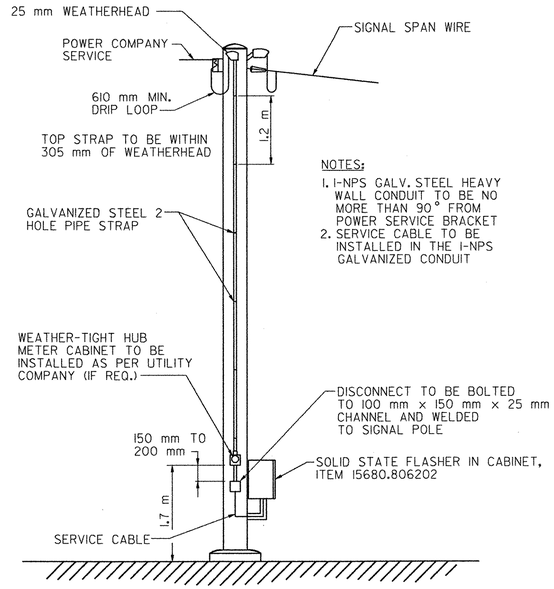
RENSSELAER COUNTY



SPAN WIRE SIGN MOUNTING DETAIL

WITH UPPER TETHER WIRE

N.T.S.



TRAFFIC SIGNAL POLE LAYOUT

(OVERHEAD SERVICE)

N.T.S.

ITEM	DESCRIPTION	UNIT	ONTY. TOTAL
	ESTIMATE OF QUANTITIES		
206.03 M	CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION	m	5
680.5001 M	POLE EXCAVATION AND CONCRETE FOUNDATION	m^3	6
680.510501 M	PULLBOX, RECTANGULAR, 650 mm x 450 mm, REINFORCED CONCRETE	EA	2
680.520103 M	CONDUIT METAL STEEL, ZINC COATED, 1 NPS	m	10
680.520106 M	CONDUIT METAL STEEL, ZINC COATED, 2 NPS	m	5
680.603011 M	TRAFFIC SIGNAL POLE-SPAN WIRE, 30 kN LOAD, 11 m LENGTH	EA	2
680.7002 M	DUAL SPAN WIRE WITH UPPER TETHER WIRE	EA	1
680.730514 M	SIGNAL CABLE, 5 CONDUCTOR, 14 AWG	m	140
680.731514 M	SIGNAL CABLE, 15 CONDUCTOR, 14 AWG	m	40
15680.806202 M	INTERSECTION FLASHER (SOLID STATE) WITH CABINET	EA	1
680.810101 M	TRAFFIC SIGNAL MODULE - 300 mm, RED BALL, LED	EA	2
680.810103 M	TRAFFIC SIGNAL MODULE - 300 mm, YELLOW BALL, LED	EA	4
680.810107 M	TRAFFIC SIGNAL SECTION - TYPE 1, (300 mm)	EA	6
680.8204 M	OVERHEAD SIGN ASSEMBLY, TYPE D	EA	1
01680.9092 M	ELECTRIC METER SOCKET, 100A, SINGLE PHASE, 120V	EA	1
15680.94 M	RAINTIGHT DISCONNECT BOX	EA	1
15680.950106 M	SERVICE CABLE 1 CONDUCTOR, NO. 06 AWG	m	100

DATUM

VERTICAL NAVD 88

HORIZONTAL NAD 83 (1992)

TRAFFIC SIGNAL DETAILS

SURVEYED BY C.H.A. & V.S.E. DATE 12/93

DESIGNED BY D.W.E. DATE 2/04

DRAWN BY C.A.K. DATE 2/04

CHECKED BY T.P.K. DATE 2/04

DESIGN FILE NO. NYTSDI-FLASH.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/1

PROJ. NO. P.I.N. 1306.60

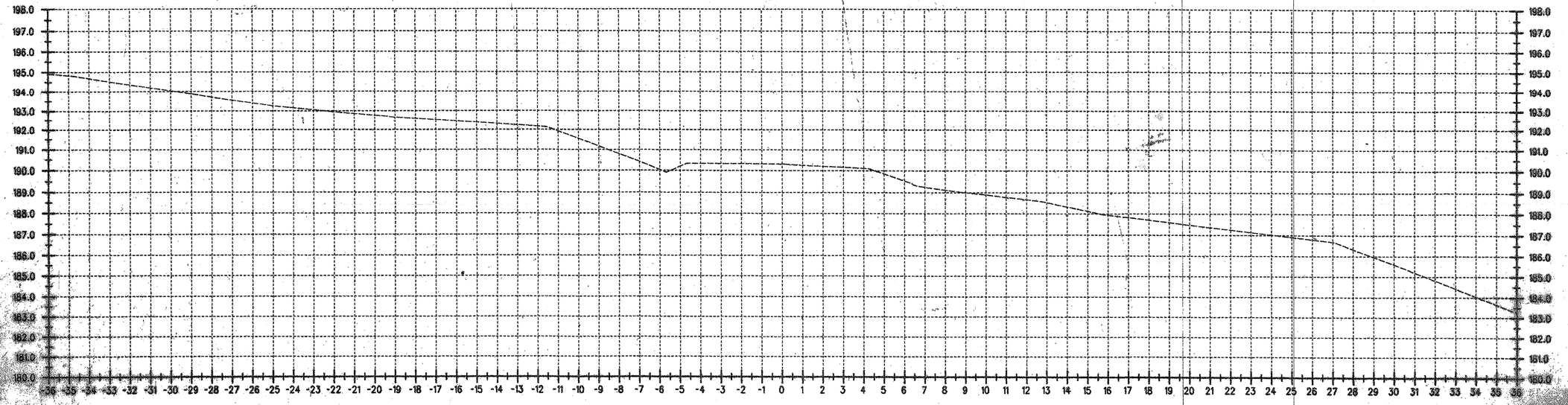
SHEET 71 OF 92 DWG NO. TSD-1

CHECKED BY M. WIESZCHOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY T. BURTNICK DATE 2/04

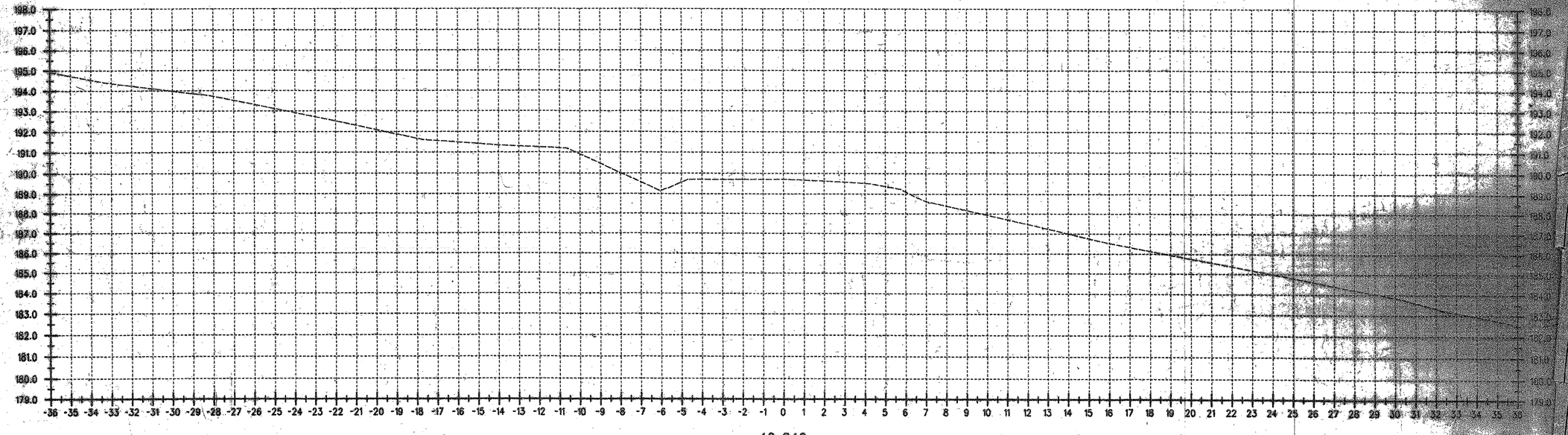
DESIGNED BY C. PRISK CHECKED BY M. WIESZCHOWSKI ESTIMATED BY C. PRISK

IN CHARGE OF T. KARIS

FILE NAME = u:\5116\NYSDOT\CONTRACT1\NYTSDI-FLASH.dgn
DATE/TIME = 2/23/2004
USER = 2225



42+860



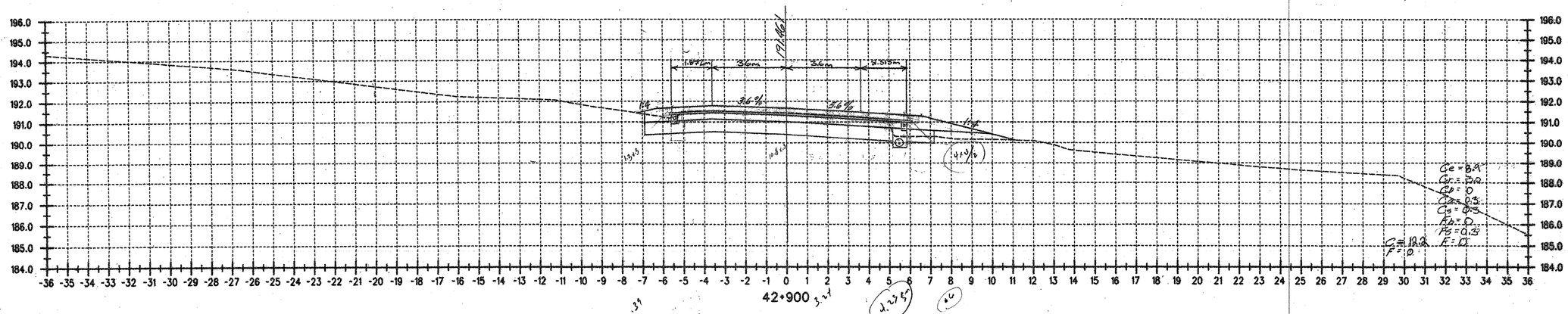
42+840

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1986)

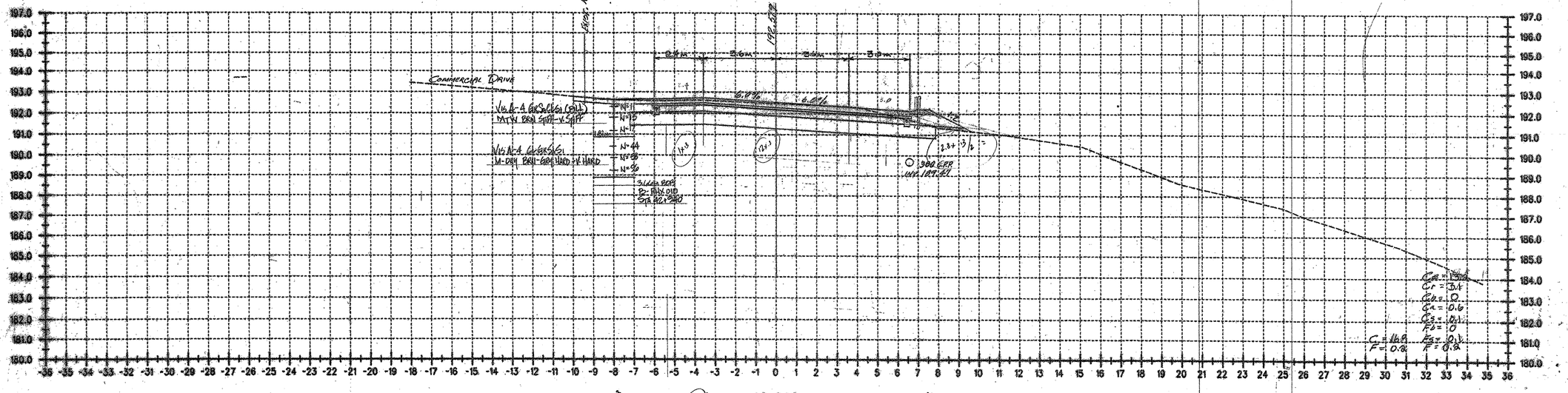
ALL DIMENSIONS IN MILLIMETERS EXCEPT AS INDICATED

2 0 2 m
H 1:100
V 1:100

SURVEYED BY C.H.A. & V.S.E. DATE
DRAWN BY J.S.L. DATE
SQUAD LEADER T.P.K.
DESIGN FILE NO. N/A
PARM FILE DATE PLOTTED
PROJ. NAME BENNINGTON - HOOSICK D.P.J. 0145(1)
PROJ. NO. P.I.N. 1306.60.201
SHEET 72 OF 92 SHEETS

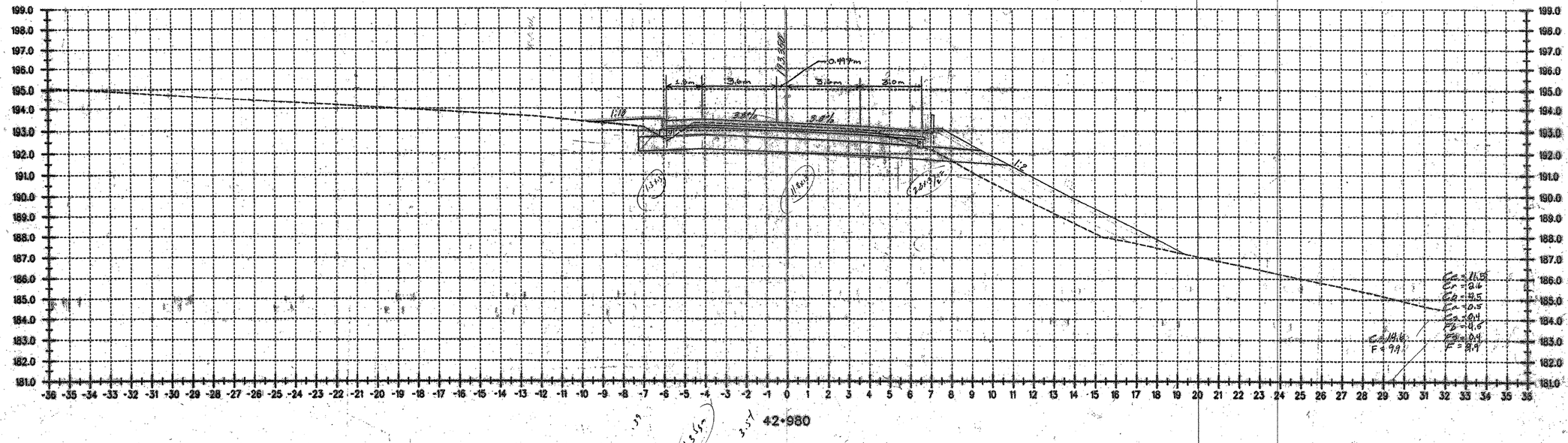

42+900
42+896
42+880
DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)
ALL DIMENSIONS IN MILLIMETERS EXCEPT AS INDICATED
2 0 2 m
H 1:100
V 1:100
SURVEYED BY C.H.A. & V.S.E. DATE
DRAWN BY J.S.L. DATE
SQUAD LEADER T.P.K.
DESIGN FILE NO. N/A
PARM FILE DATE PLOTTED
PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1)
PROJ. NO. P.I.N. 1306.60.101
SHEET 73 OF 92 SHEETS

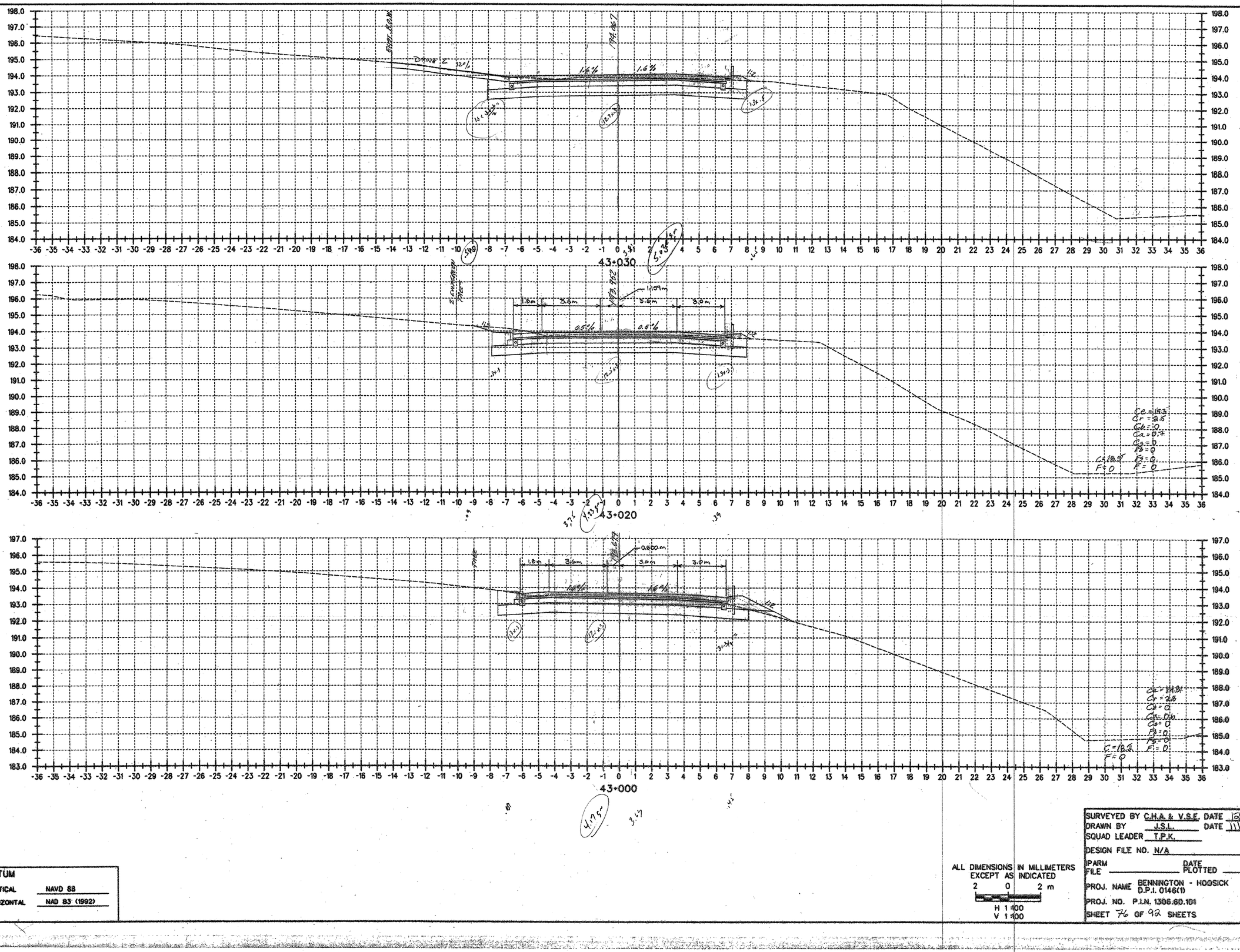
04040903



DATUM
VERTICAL GEODETIC (CGVD 1928)
HORIZONTAL NAD 83 (1997)

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DRAWN BY J.S.L. DATE 11/97
SQUAD LEADER T.P.K.
DESIGN FILE NO. N/A
IPARM DATE
FILE PLOTTED
PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1)
PROJ. NO. P.I.N. 1306.60.201
SHEET 74 OF 92 SHEETS


42+980
42+960
DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1997)
ALL DIMENSIONS IN MILLIMETERS EXCEPT AS INDICATED
H: 1: 100
V: 1: 100
SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DRAWN BY J.S.I. DATE 11/03
SQUAD LEADER T.P.K.
DESIGN FILE NO. N/A
IFARM DATE PLOTTED
FILE
PROJ. NAME BENNINGTON - ROOSICK D.P.I. 0146(1)
PROJ. NO. P.I.N. 1306.60.201
SHEET 75 OF 90 SHEETS



DATUM

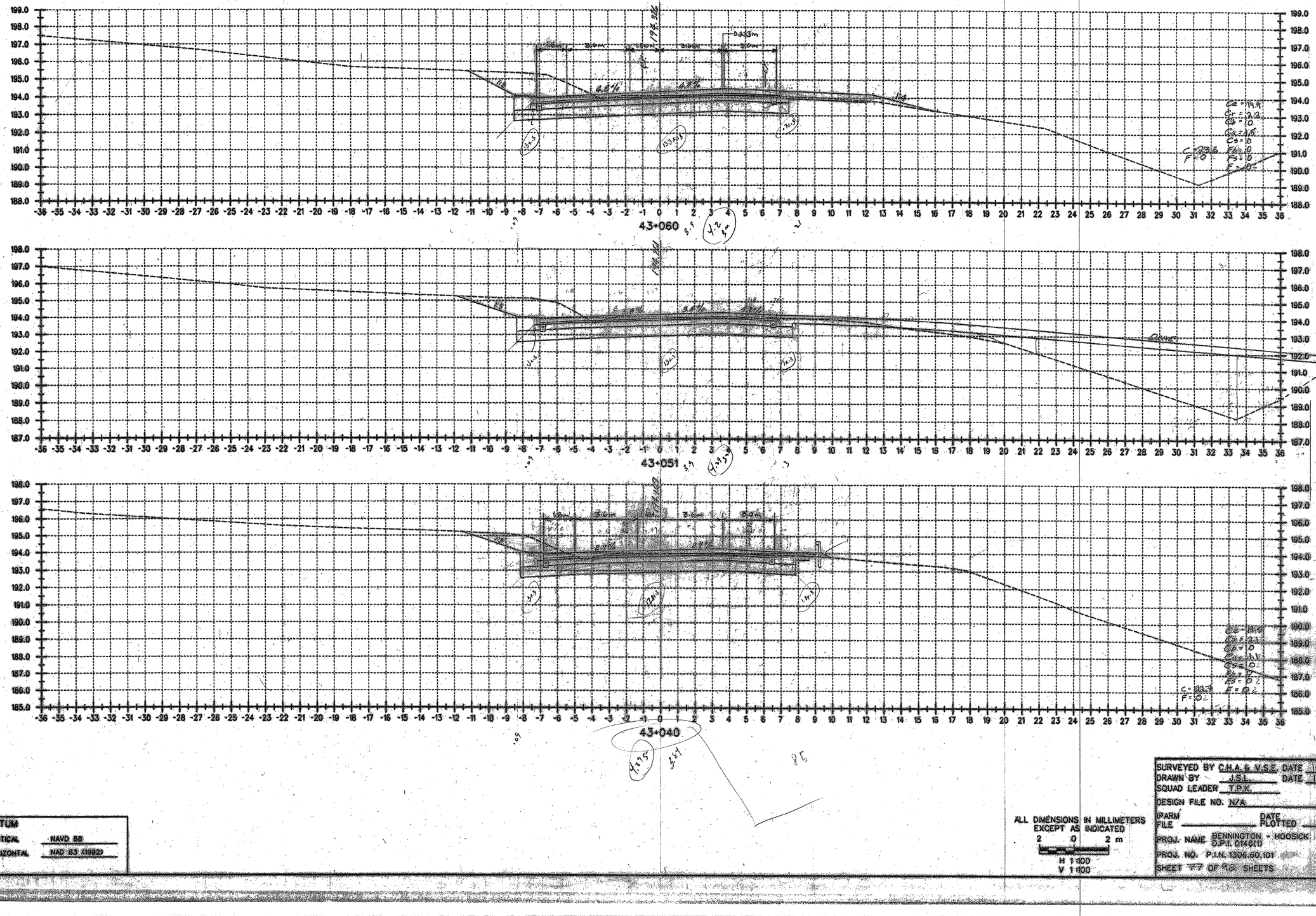
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

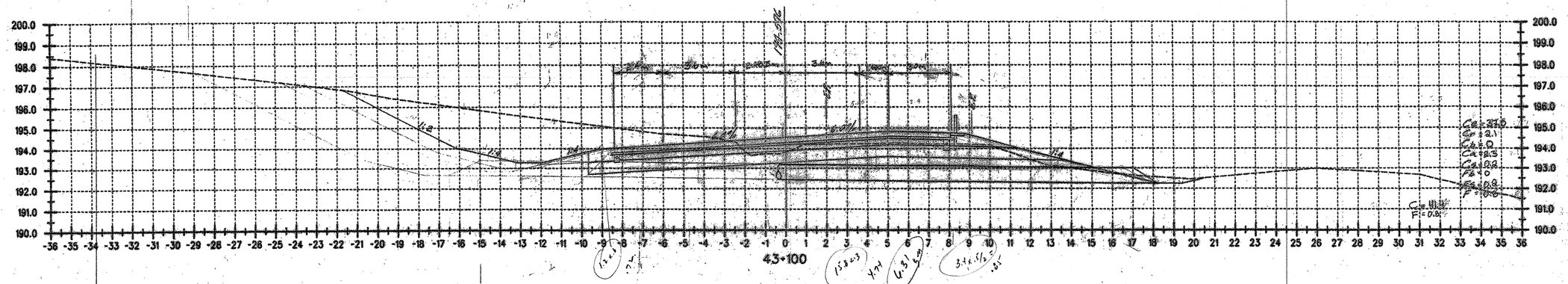
ALL DIMENSIONS IN MILLIMETERS EXCEPT AS INDICATED

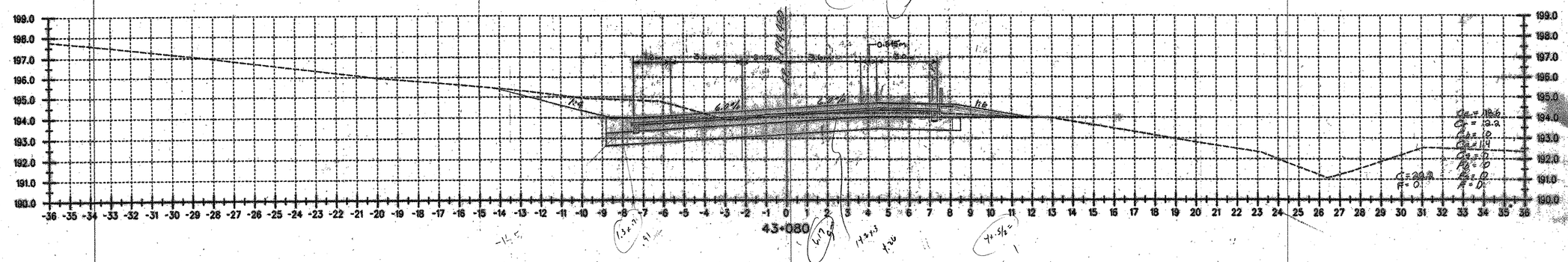
2 0 2 m

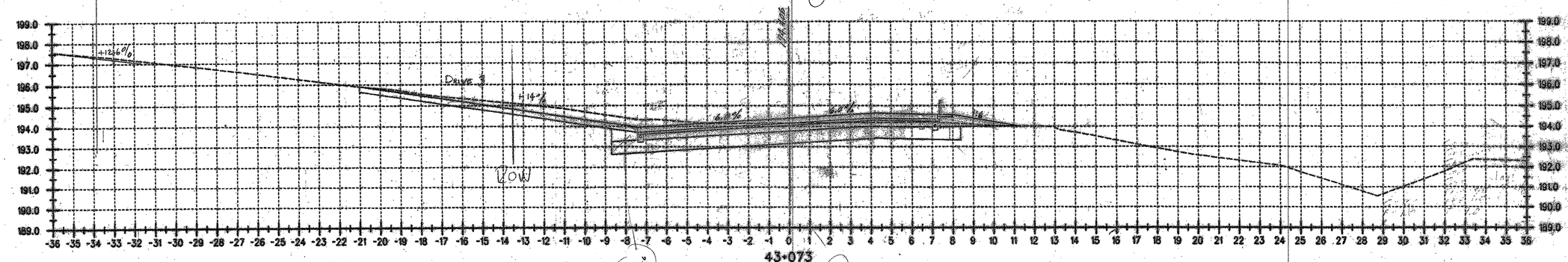
H 1:100
V 1:100

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DRAWN BY J.S.L. DATE 1/1/03
SQUAD LEADER T.P.K.
DESIGN FILE NO. N/A
IPARM FILE ____ DATE PLOTTED ____
PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1)
PROJ. NO. P.I.N. 1306.60.101
SHEET 76 OF 92 SHEETS


43+060
43+051
43+040
0.933m
2.8%
4.2%
Drive
DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)
ALL DIMENSIONS IN MILLIMETERS EXCEPT AS INDICATED
2 0 2 m
H 1:100
V 1:100
SURVEYED BY C.H.A. & V.S.E. DATE 10/93
DRAWN BY J.S.L. DATE 11/03
SQUAD LEADER T.P.K.
DESIGN FILE NO. N/A
PARM FILE
DATE PLOTTED
PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1)
PROJ. NO. P.I.N. 1306.60.101
SHEET 77 OF 92 SHEETS







DATUM

VERTICAL NAVD 88

HORIZONTAL NAD 83 (1992)

ALL DIMENSIONS IN MILLIMETERS EXCEPT AS INDICATED

2 0 2 m

H 1:100

V 1:100

SURVEYED BY C.H.A. & V.S.E. DATE 10/00

DRAWN BY J.S.L. DATE 11/00

SQUAD LEADER T.P.K.

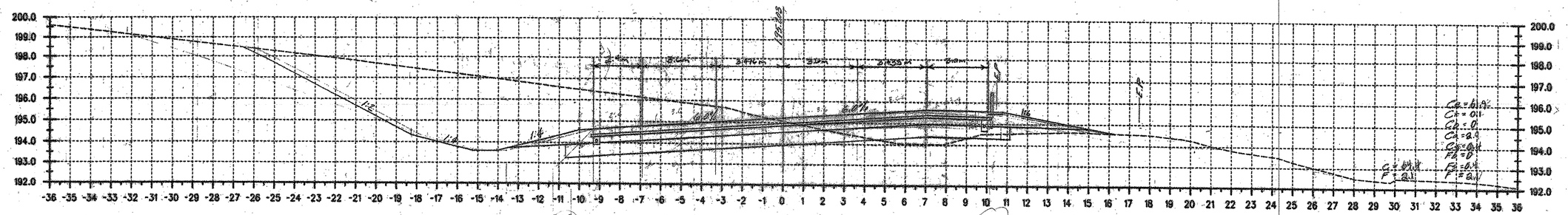
DESIGN FILE NO. N/A

PARM FILE ____ DATE PLOTTED ____

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1)

PROJ. NO. P.I.N. 1306.60.101

SHEET 76 OF 92 SHEETS



DATUM

VERTICAL — NAVD 88

HORIZONTAL — NAD 83 (1992)

ALL DIMENSIONS IN MILLIMETERS EXCEPT AS INDICATED

H 1:100

V 1:100

SURVEYED BY C.H.A. & V.S.E. DATE 12/92

DRAWN BY J.S.L. DATE 1/1/93

SQUAD LEADER T.P.K.

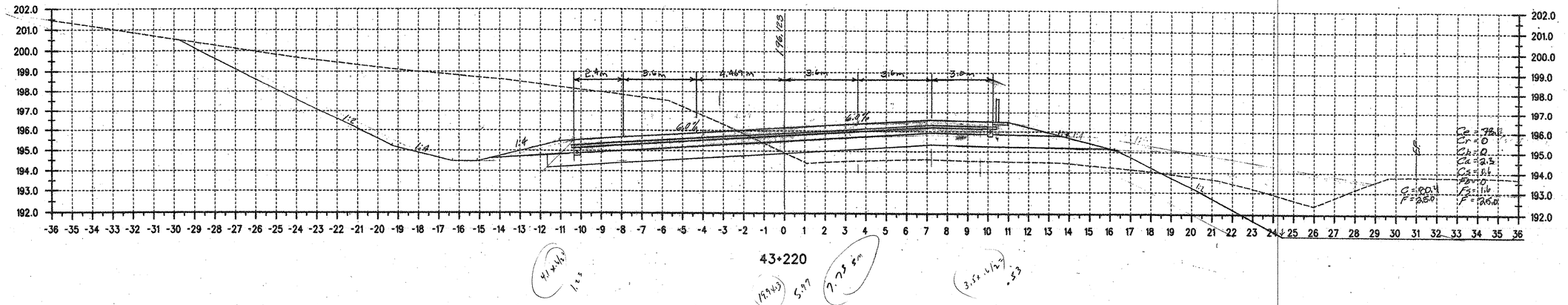
DESIGN FILE NO. n/a

PARM FILE — DATE PLOTTED

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 01461)

PROJ. NO. P.I.N. 1306.60.201

SHEET 79 OF 96 SHEETS



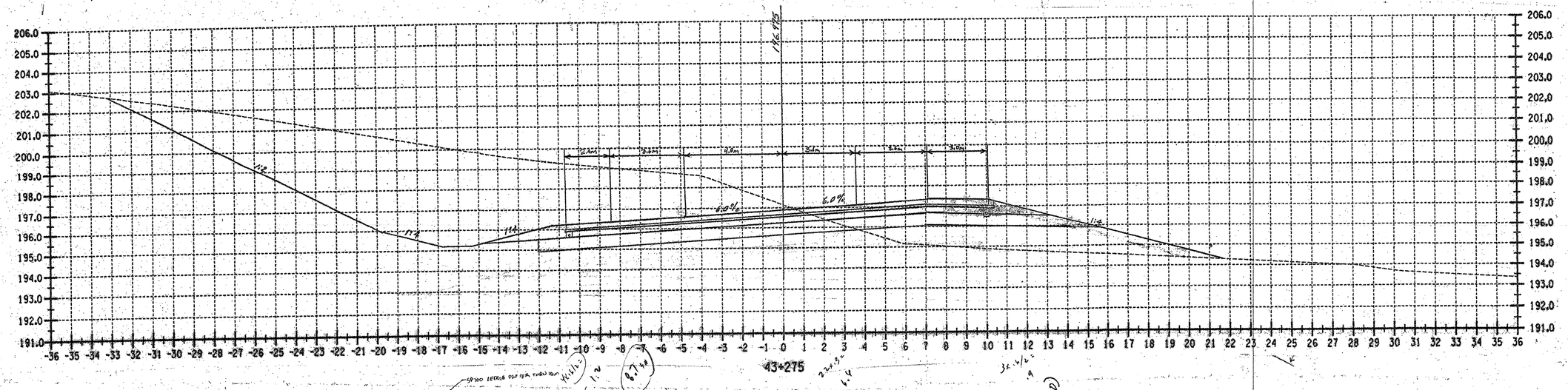
DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

ALL DIMENSIONS IN MILLIMETERS EXCEPT AS INDICATED

2 0 2 m

H 1:100
V 1:100

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DRAWN BY J.S.L. DATE 11/03
SQUAD LEADER T.P.K.
DESIGN FILE NO. n/a
IPARM FILE
DATE PLOTTED
PROJ. NAME BENNINGTON - HOOSICK D.P.I. 014611
PROJ. NO. P.I.N. 1306.60.201
SHEET 80 OF 92 SHEETS



DATUM

VERTICAL NAVD 88

HORIZONTAL NAD 83 (1992)

ALL DIMENSIONS IN MILLIMETERS EXCEPT AS INDICATED

2 0 2 m

H 1:100

V 1:100

SURVEYED BY C.H.A. & V.S.E. DATE 12/93

DRAWN BY J.S.L. DATE 11/95

SQUAD LEADER T.P.K.

DESIGN FILE NO. N/A

IPARM FILE

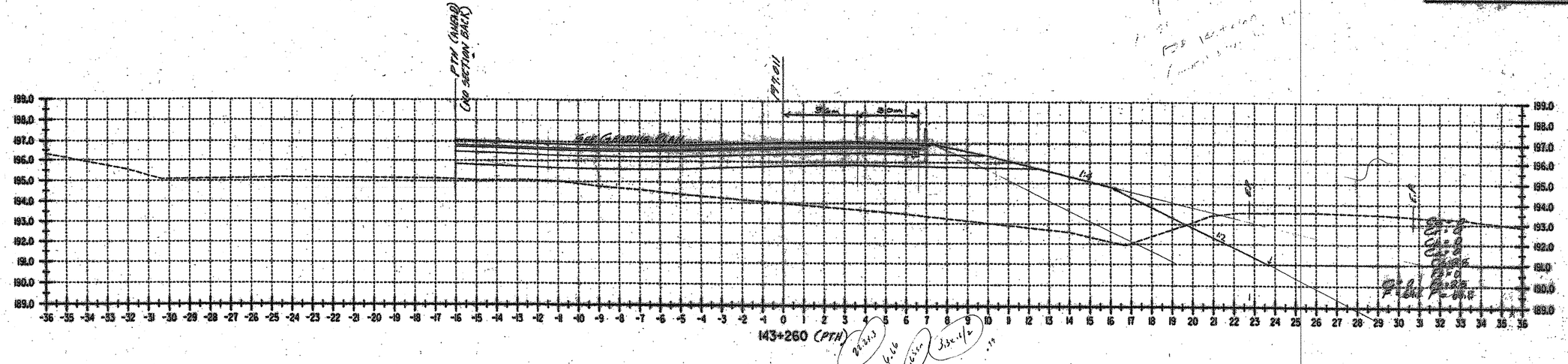
DATE PLOTTED

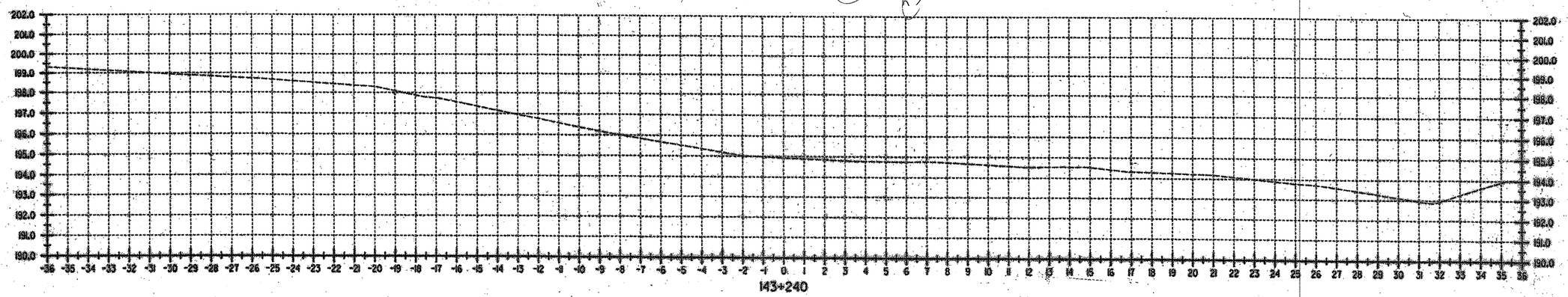
PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1)

PROJ. NO. P.I.N. 1306.60.101

SHEET 81 OF 92 SHEETS

Metric





DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

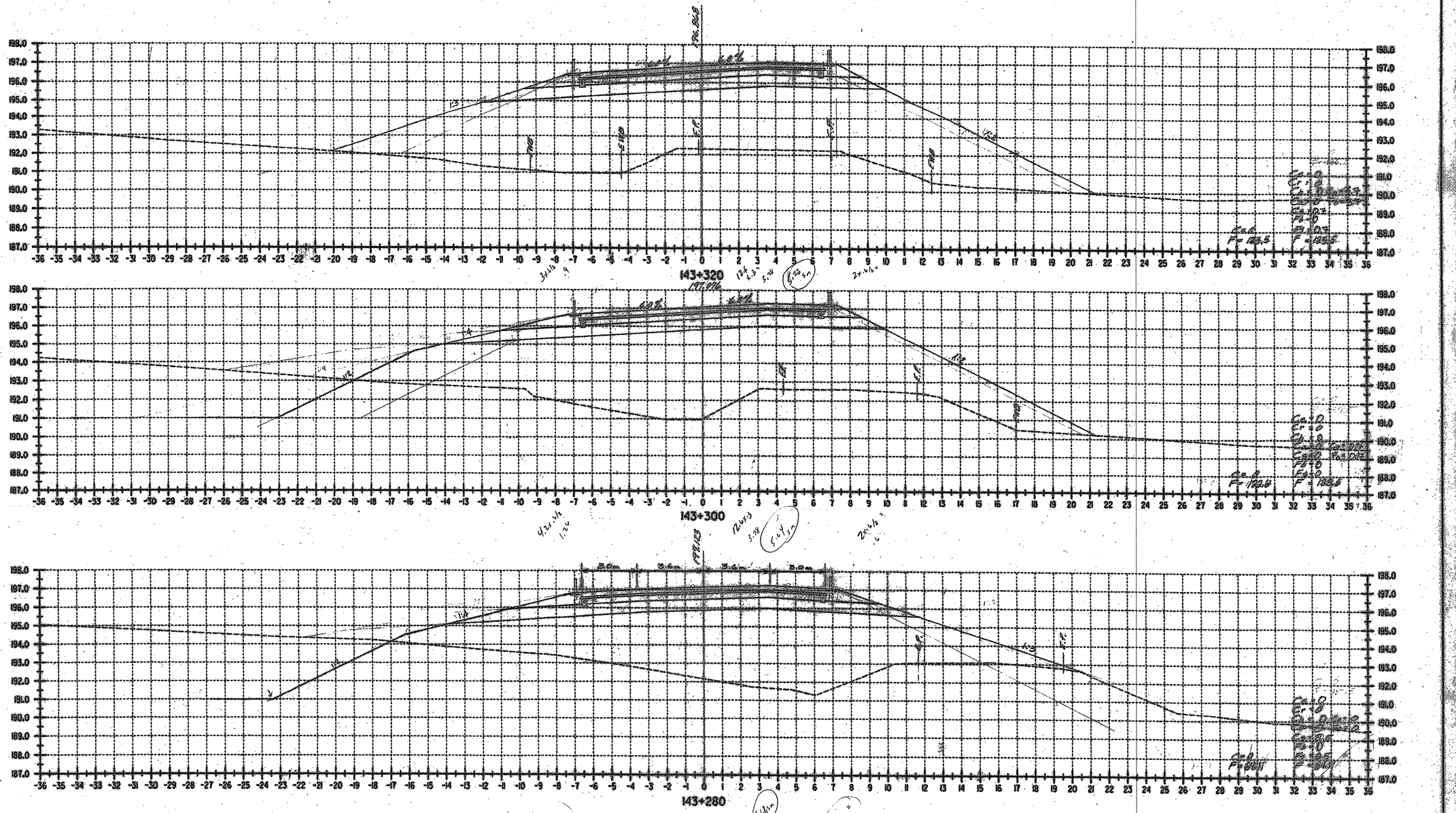
ALL DIMENSIONS IN MILLIMETERS EXCEPT AS INDICATED

2 0 2 m

H 1:100
V 1:100

SURVEYED BY C.H.A. & V.S.E. DATE 10/03
DRAWN BY V.S.L. DATE 11/03
SQUAD LEADER T.P.K.
DESIGN FILE NO. N/A
IPARM FILE DATE PLOTTED
PROJ. NAME BENNINGTON - WOODSIDE D.P.J. 0146(1)
PROJ. NO. P.I.N. 1306.60.101
SHEET 62 OF 92 SHEETS

Metric



DATUM

VERTICAL NAVD 88

HORIZONTAL NAD 83 (1997)

ALL DIMENSIONS IN MILLIMETERS EXCEPT AS INDICATED

2 0 2 m

H 1:100

V 1:100

SURVEYED BY C.H.A. & Y.S.E. DATE 10/95

DRAWN BY J.S.L. DATE 11/95

SQUAD LEADER T.P.K.

DESIGN FILE NO. N/A

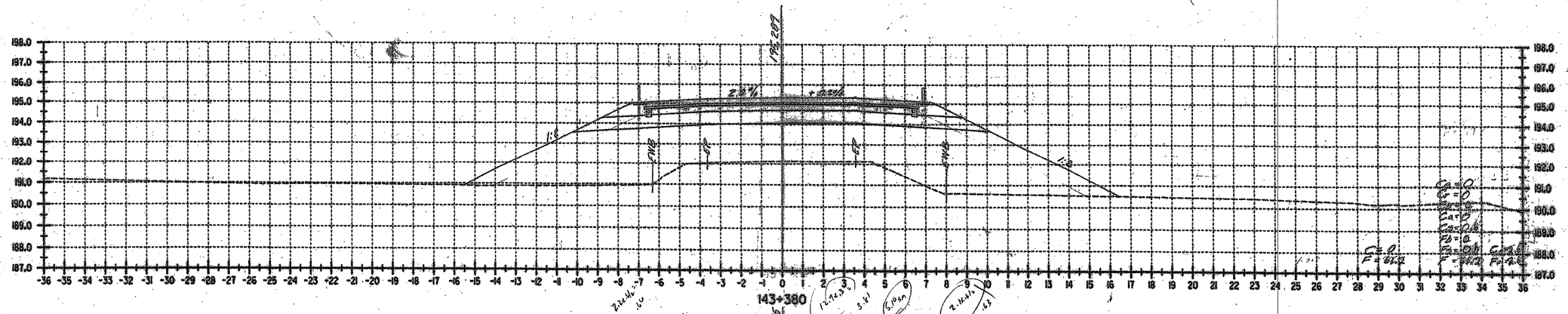
IPARM FILE DATE PLOTTED

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 01460

PROJ. NO. P.I.N. 1306.60.101

SHEET 83 OF 98 SHEETS

Metric



DATUM

VERTICAL NAVD 88

HORIZONTAL NAD 83 (1992)

ALL DIMENSIONS IN MILLIMETERS EXCEPT AS INDICATED

2 0 2 m

H 1:100

V 1:100

SURVEYED BY C.H.A. & V.S.E. DATE 01/02

DRAWN BY J.S.F. DATE 11/02

SQUAD LEADER T.P.K.

DESIGN FILE NO. N/A

IPARM FILE

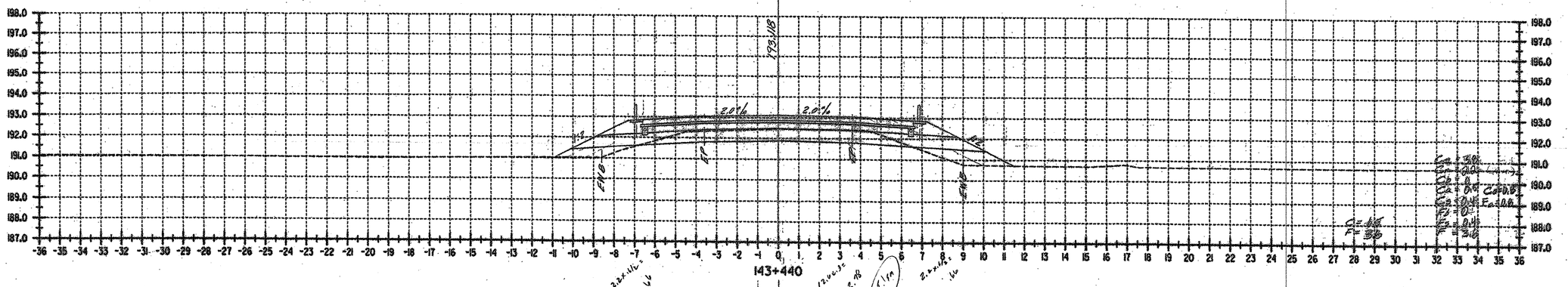
DATE PLOTTED

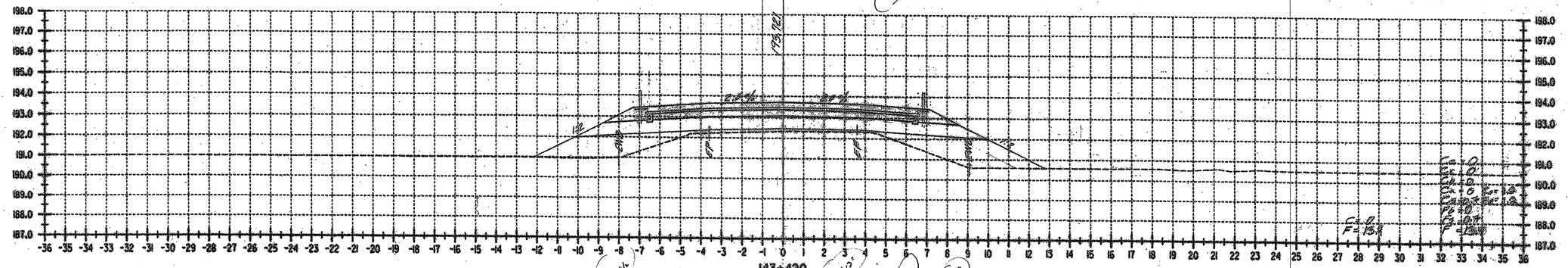
PROJ. NAME BENNINGTON - HOOSICK D.P.I. 01460

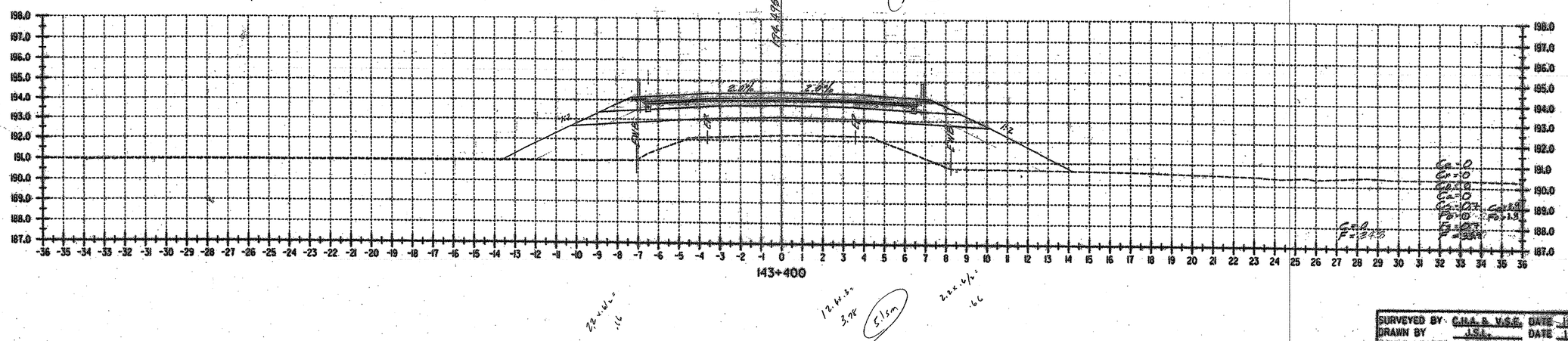
PROJ. NO. P.I.N. 1306.60.101

SHEET 21 OF 70 SHEETS

Metric







DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

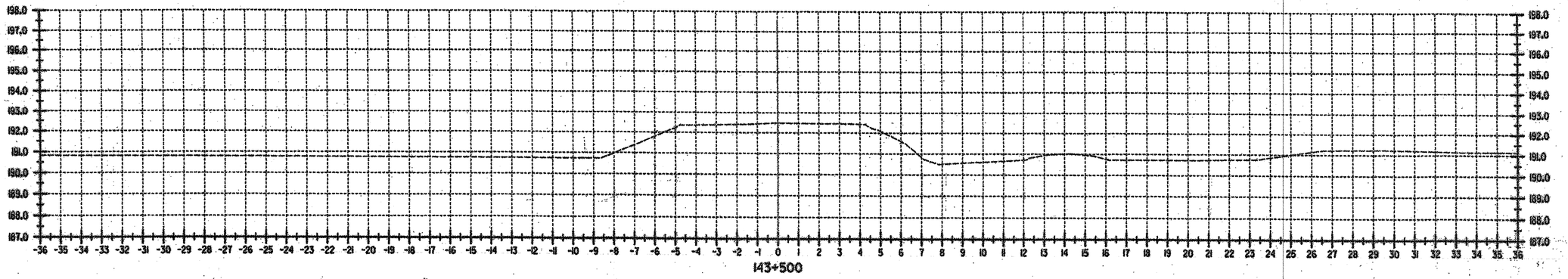
ALL DIMENSIONS IN MILLIMETERS EXCEPT AS INDICATED

2 0 2 m

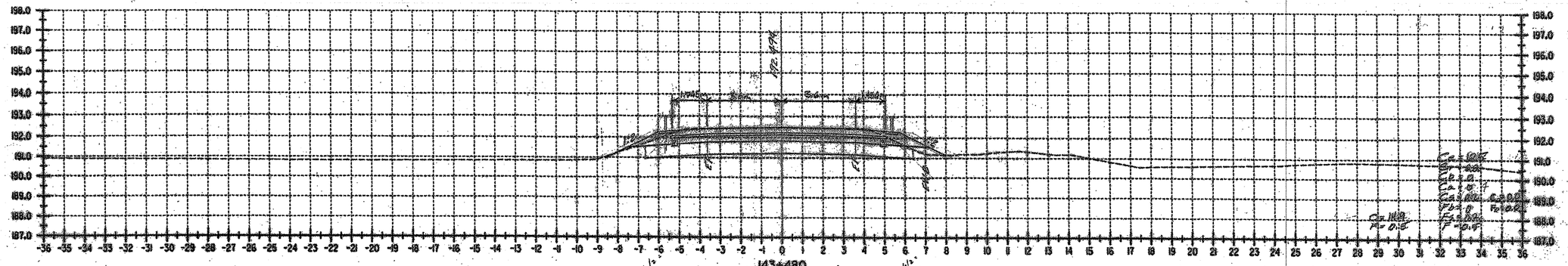
H 1:100
V 1:100

SURVEYED BY: C.H.A. & V.S.E. DATE 10/97
DRAWN BY J.S.L. DATE 11/97
SQUAD LEADER T.P.K.
DESIGN FILE NO. N/A
IPARM FILE DATE PLOTTED
PROJ. NAME BENNINGTON - HODSICK D.P.I. 01460
PROJ. NO. P.I.N. 1306.60.01
SHEET 64 OF 99 SHEETS

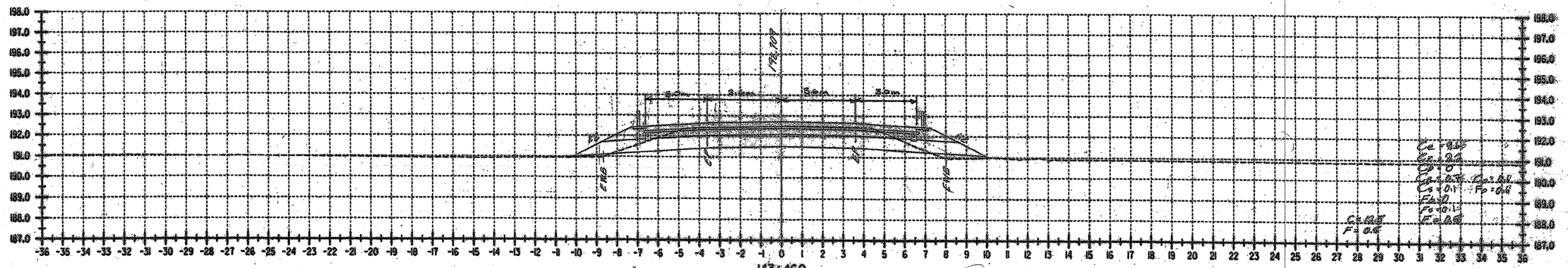
Metric



143+500



143+480



143+460

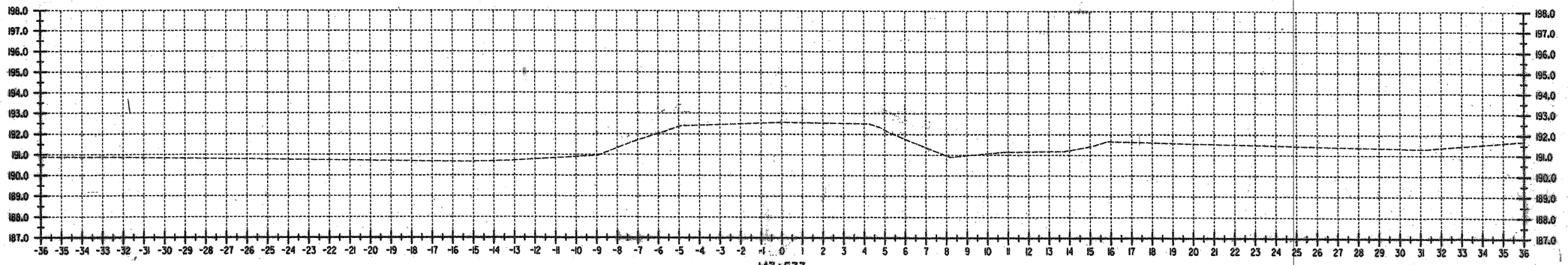
DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

ALL DIMENSIONS IN MILLIMETERS EXCEPT AS INDICATED
2 0 2 m
H 1:100
V 1:100

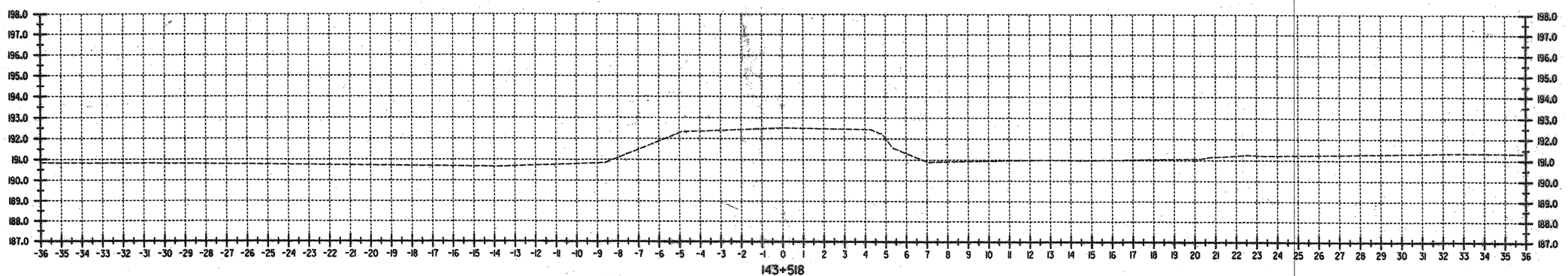
SURVEYED BY C.H.A. & V.S.E. DATE 12/03
DRAWN BY J.S.L. DATE 11/02
SQUAD LEADER T.P.K.
DESIGN FILE NO. N/A
IPARM FILE # DATE PLOTTED
PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1)
PROJ. NO. P.I.N. 1306.60.101
SHEET 86 OF 92 SHEETS

1/9/04

Metric



143+533



143+518

DATUM

VERTICAL NAVD 88

HORIZONTAL NAD 83 (1992)

ALL DIMENSIONS IN MILLIMETERS EXCEPT AS INDICATED

2 0 2 m

H 1:100

V 1:100

SURVEYED BY C.H.A. & V.S.E. DATE 12/93

DRAWN BY J.S.L. DATE 11/03

SQUAD LEADER T.P.K.

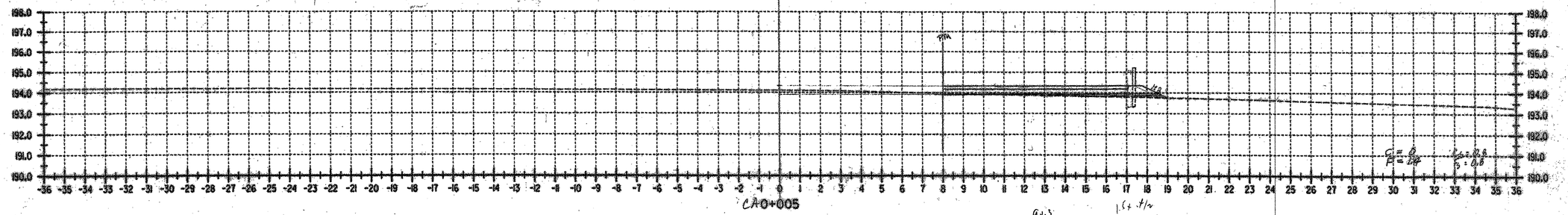
DESIGN FILE NO. N/A

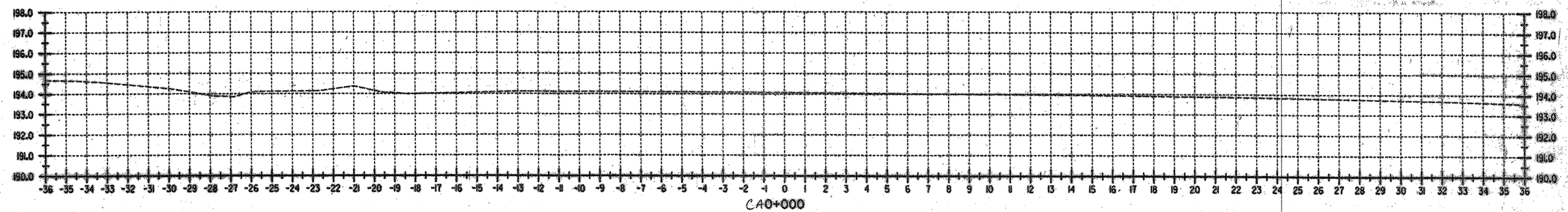
IPARM FILE ____ DATE PLOTTED ____

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1)

PROJ. NO. P.I.N. 1306.60.101

SHEET 87 OF 92 SHEETS

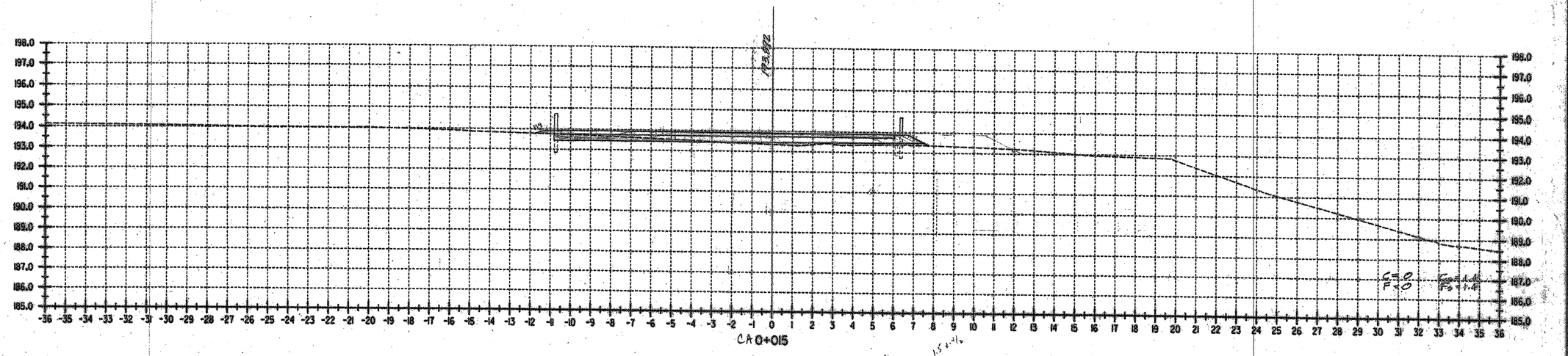




DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

ALL DIMENSIONS IN MILLIMETERS EXCEPT AS INDICATED
2 0 2 m
H 1:100
V 1:100

SURVEYED BY C.H.A. & V.S.E. DATE 12/97
DRAWN BY J.S.L. DATE 11/98
SQUAD LEADER T.P.K.
DESIGN FILE NO. /5116/cahill.dgn
IPARM FILE DATE PLOTTED
PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1)
PROJ. NO. P.I.N. 1306.60.101
SHEET 88 OF 98 SHEETS



DATUM

VERTICAL NAVD 88

HORIZONTAL NAD 83 (1992)

ALL DIMENSIONS IN MILLIMETERS EXCEPT AS INDICATED

2 0 2 m

H 1:100

V 1:100

SURVEYED BY C.H.A. & V.S.E. DATE 10/83

DRAWN BY J.S.L. DATE 11/03

SQUAD LEADER T.P.K.

DESIGN FILE NO. /5116/cahill.dgn

IPARM FILE

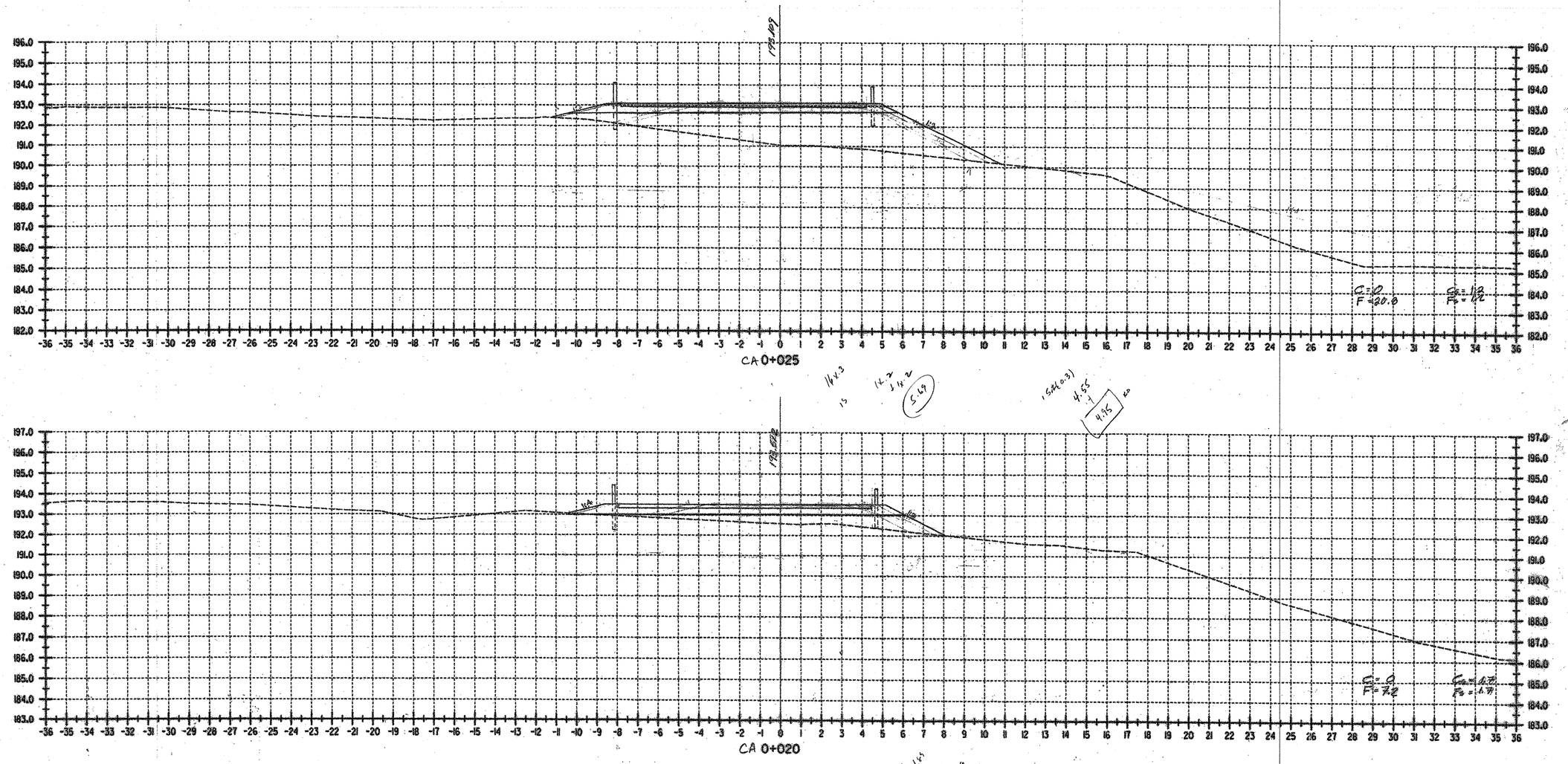
DATE PLOTTED

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 014611

PROJ. NO. P.I.N. 1306.60.101

SHEET 89 OF 98 SHEETS

Metric



DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

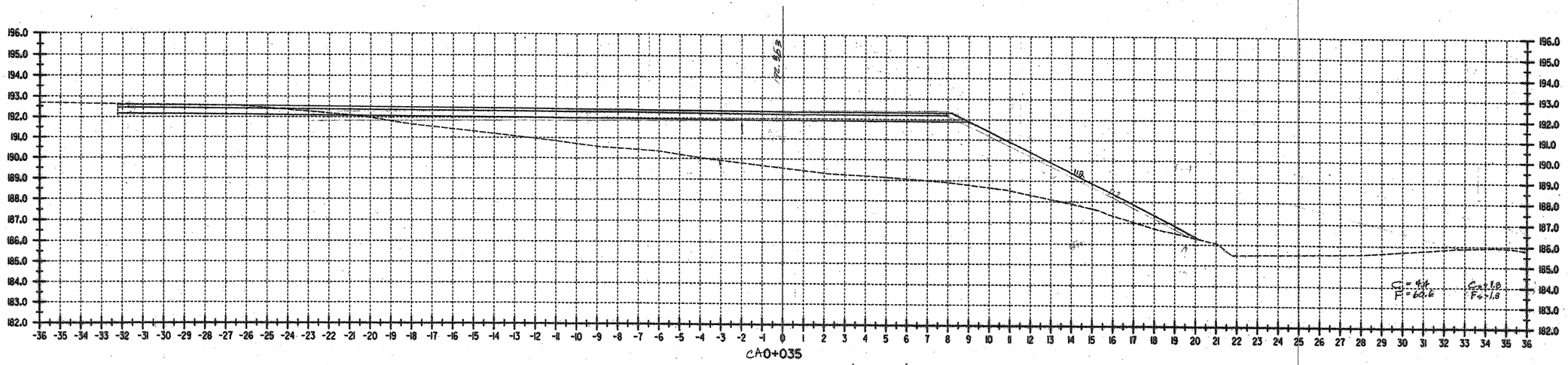
ALL DIMENSIONS IN MILLIMETERS EXCEPT AS INDICATED

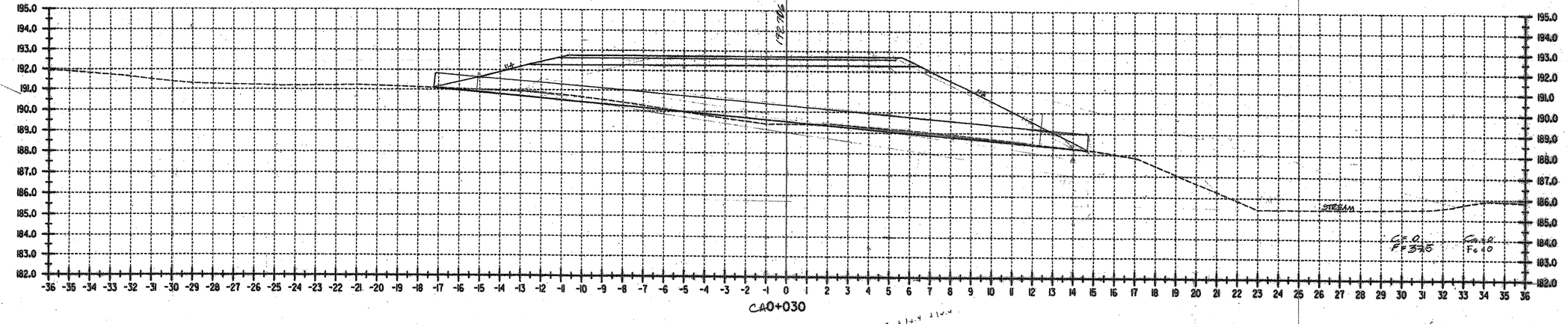
2 0 2 m

H 1:100
V 1:100

SURVEYED BY	C.H.A. & V.S.E.	DATE 10/93
DRAWN BY	J.S.L.	DATE 11/03
SQUAD LEADER	T.P.K.	
DESIGN FILE NO.	/5116/coahill.dgn	
IPARM FILE		DATE PLOTTED
PROJ. NAME	BENNINGTON - HOOSICK D.P.I. 01460	
PROJ. NO.	P.I.N. 1306.60.101	
SHEET 90	OF 92 SHEETS	

Metric





DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

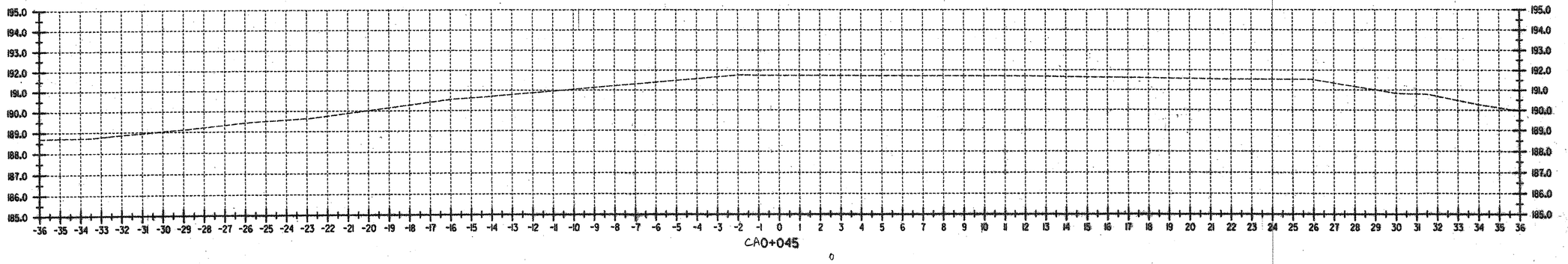
ALL DIMENSIONS IN MILLIMETERS EXCEPT AS INDICATED

2 0 2 m

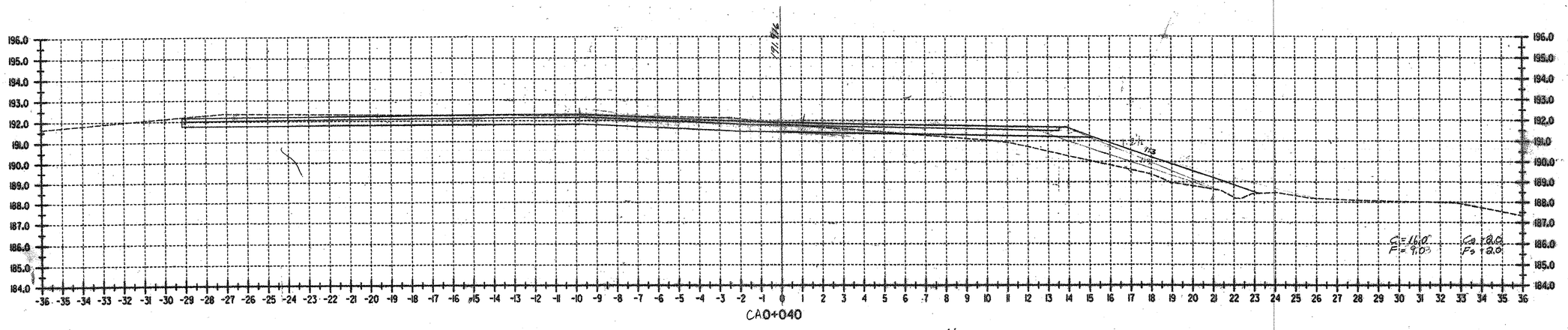
H 1:100
V 1:100

SURVEYED BY	C.H.A. & V.S.E.	DATE	12/93
DRAWN BY	J.S.L.	DATE	1/10/94
SQUAD LEADER	T.P.K.		
DESIGN FILE NO.	/5116/cahill.dgn		
IPARM FILE		DATE PLOTTED	
PROJ. NAME	BENNINGTON - HOOSICK D.P.I. 0146(1)		
PROJ. NO.	P.I.N. 1306.60.101		
SHEET 91	OF 92 SHEETS		

Metric



CA0+045



CA0+040

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

ALL DIMENSIONS IN MILLIMETERS EXCEPT AS INDICATED

2 0 2 m

H 1:100
V 1:100

SURVEYED BY	C.H.A. & V.S.E. DATE 12/93
DRAWN BY	J.S.L. DATE 11/93
SQUAD LEADER	T.P.K.
DESIGN FILE NO.	/516/cahill.dgn
IPARM FILE	DATE PLOTTED
PROJ. NAME	BENNINGTON - HOOSICK D.P.I. 0146(1)
PROJ. NO.	P.I.N. 1306.60.101
SHEET	92 OF 92 SHEETS