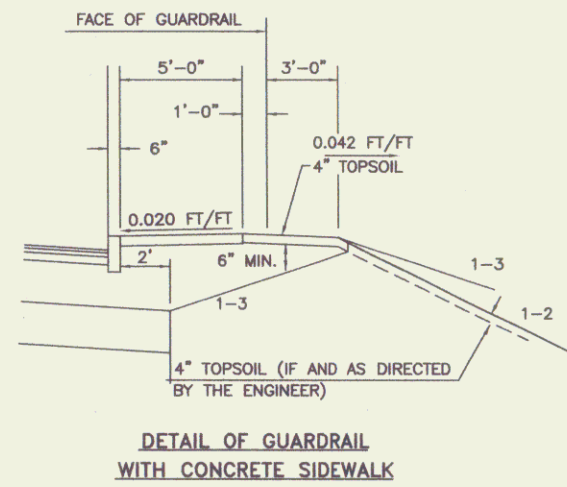
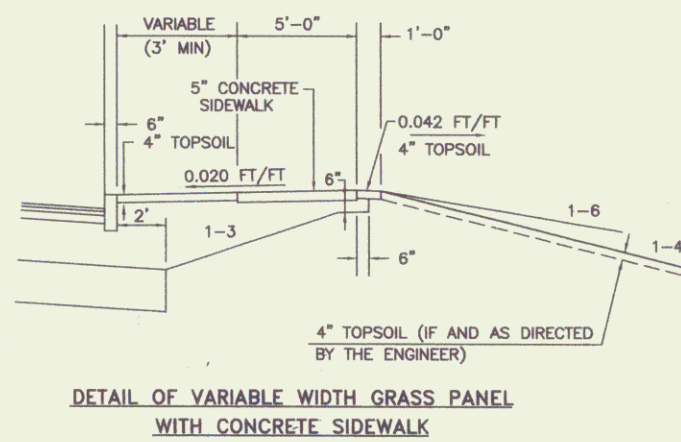
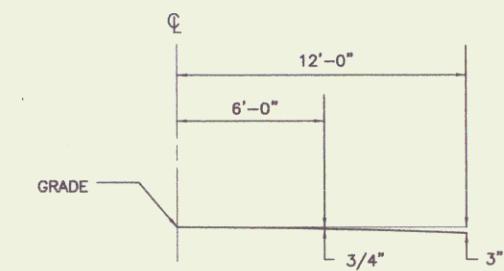
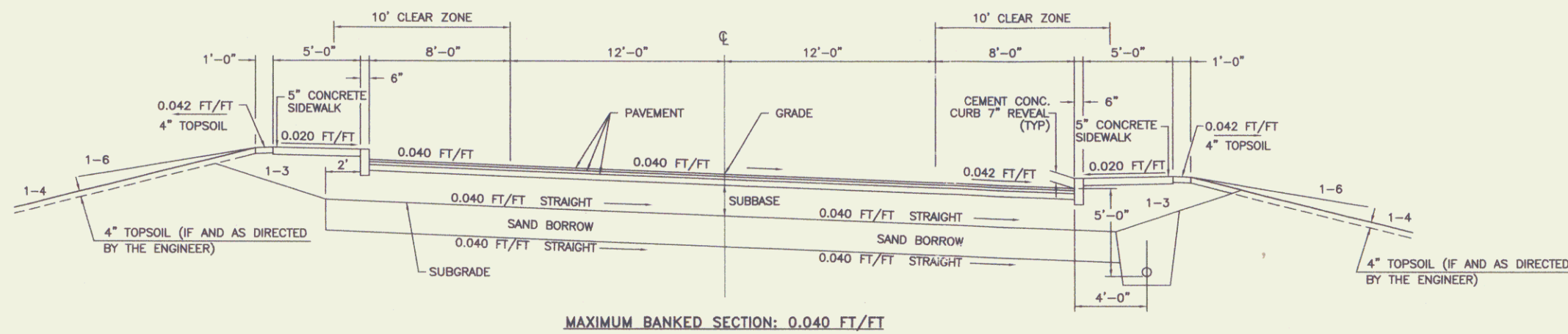
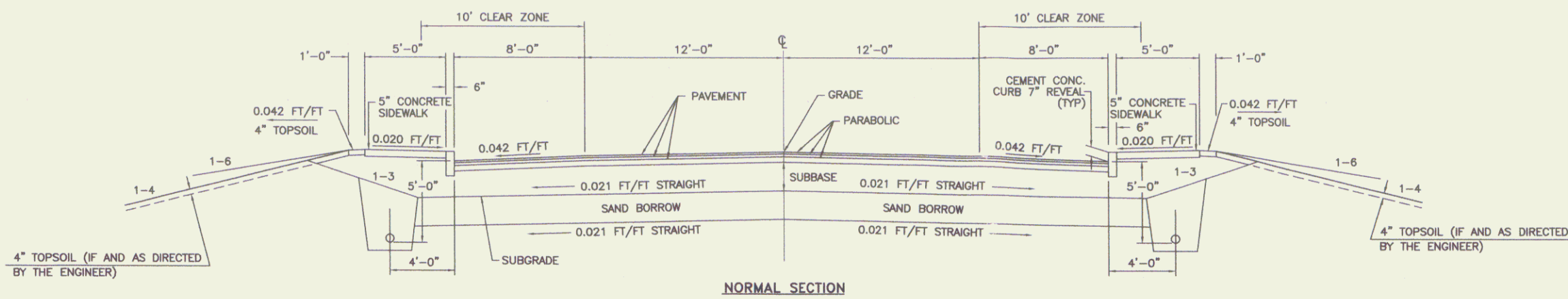


MATERIAL ITEM	THICKNESS TOLERANCE
PAVEMENT (TOTAL DEPTH)	±1/4"
SUBBASE	±1/2"
SAND BORROW	±1"

TYPICAL SECTIONS

1-1/2" BITUMINOUS CONCRETE PAVEMENT (TYPE III) }
 3" BITUMINOUS CONCRETE PAVEMENT (TYPE II) } PG 64-34
 3-3/4" BITUMINOUS CONCRETE PAVEMENT (TYPE I) }
 21" SUBBASE OF CRUSHED GRAVEL (COARSE GRADED)
 21" SAND BORROW



SEEDING FORMULA URBAN AREAS

% WT.	LBS./A.	NAME	PUR. %	GERM. %
42.5	34.0	CREeping RED FESCUE	98	85
10.0	8.0	PERENNIAL RYE GRASS	95	90
42.5	34.0	KENTUCKY BLUE GRASS	85	85
5.0	4.0	ANNUAL RYE GRASS	95	85
100.00	80.0			

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

SEED - TO BE APPLIED PER SEEDING FORMULA OR AS DIRECTED BY THE ENGINEER.

FERTILIZER - FORMULA 10-20-10 TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).

AGRICULTURAL LIMESTONE - TO BE APPLIED AT THE RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE ENGINEER.

HAY MULCH - TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE ENGINEER.

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

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

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

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

TACK COAT - EMULSIFIED ASPHALT IS TO BE APPLIED AT THE RATE OF 0.015 GAL/SY BETWEEN SUCCESSIVE COURSES OF PAVEMENT AS DIRECTED BY THE ENGINEER.

FOR URBAN TYPICAL SEE STANDARD SHEET A-66.

FOR 5" CONCRETE SIDEWALK AND CEMENT CONCRETE CURB DETAILS SEE STANDARD SHEETS A-66, C-1, AND C-2a.

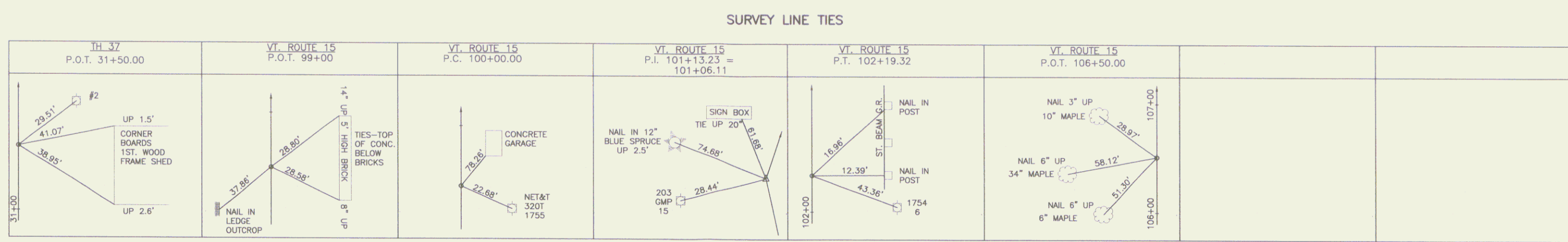
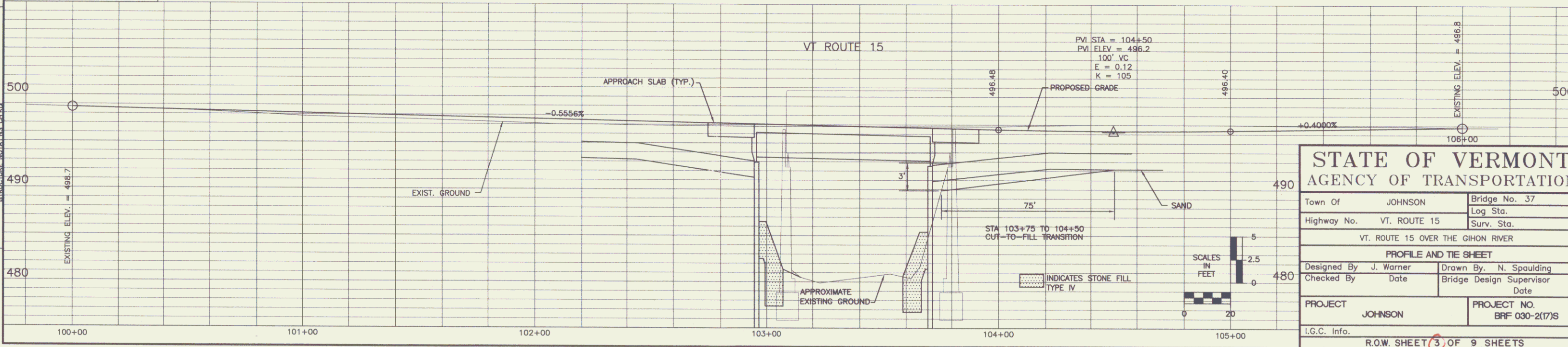
STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of	JOHNSON	Bridge No.	37
Highway No.	VT ROUTE 15	Log Sta.	
		Surv. Sta.	
VT ROUTE 15 OVER THE GHON RIVER			
TYPICAL SECTIONS			
Designed By	J. Warner	Drawn By	N. Spaulding
Checked By	Date	Bridge Design Supervisor	Date
PROJECT	JOHNSON	PROJECT NO.	BRF 030-2(17)S
I.G.C. Info.			
R.O.W. SHEET 2 OF 9 SHEETS			

DATE	
BY	
PLAN	
REVISION	
NOTED	
DATE CHECKED	
BY	
NO. OF WAY CHECKED	
NO.	

DATE	
BY	
PROFILE	
REVISION	
NOTED	
DATE CHECKED	
BY	
NO. OF WAY CHECKED	
NO.	

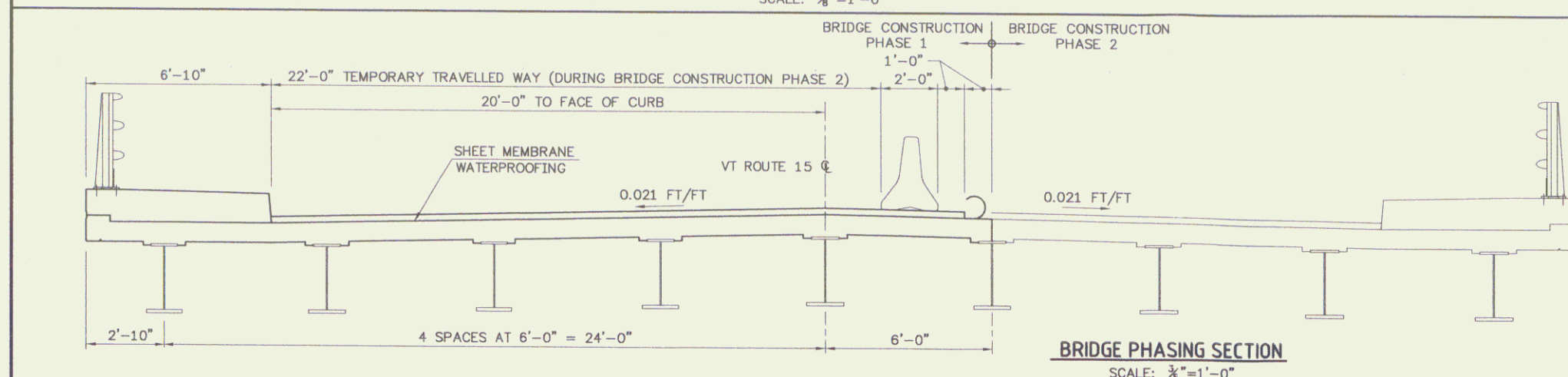
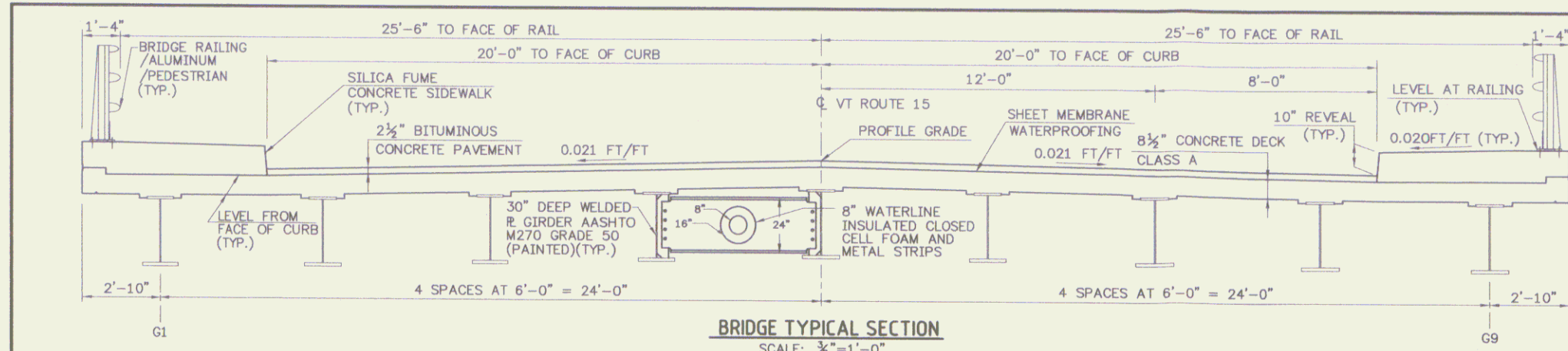
DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	N/A



NOT TO SCALE

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STATE OF VERMONT			
AGENCY OF TRANSPORTATION			
Town Of	JOHNSON	Bridge No. 37	
Highway No.	VT. ROUTE 15	Log Sta.	
		Surv. Sta.	
VT. ROUTE 15 OVER THE GIRON RIVER			
PROFILE AND TIE SHEET			
Designed By	J. Warner	Drawn By	N. Spaulding
Checked By	Date	Bridge Design Supervisor	Date
PROJECT	JOHNSON	PROJECT NO.	BRF 030-2(17)S
I.G.C. Info.	R.O.W. SHEET 3 OF 9 SHEETS		



- GENERAL NOTES**
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION, 1990 STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DATED 1996, WITH INTERIMS THROUGH 1997.
 - DESIGN IS BY THE ALLOWABLE STRESS DESIGN METHOD FOR HS25-44 LOADING. DESIGN DEAD LOAD INCLUDES AN ALLOWANCE FOR A ONE INCH FUTURE OVERLAY.
 - DESIGN SOIL UNIT WEIGHT = 140 PCF
 - ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL, AND ARE GIVEN AT 68 DEGREES F UNLESS OTHERWISE NOTED.
 - ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED USING PROCEDURES AND TOLERANCES IN ACCORDANCE WITH APPLICABLE PUBLICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
 - THE PAINTING OF THE NEW STEEL WILL BE PAID FOR UNDER THE ITEM 513.25 "STRUCTURAL PAINTING, SHOP APPLIED". SEE SPECIAL PROVISIONS FOR THE SPECIFICATIONS PERTAINING TO THE PAINTING OF STRUCTURAL STEEL.
 - ALL FIELD CONNECTIONS SHALL BE MADE WITH 7/8" DIAMETER, ASTM A-325 (AASHTO M164) BOLTS. HOLES SHALL BE 15/16" DIAMETER. CONNECTIONS NOT DETAILED ON THE PLANS SHALL BE DETAILED BY THE FABRICATOR AND SUBMITTED TO THE STATE FOR APPROVAL.
 - MECHANICALLY GALVANIZED AND PAINTED TYPE I BOLTS ARE TO BE USED FOR PAINTED M270 GRADE 50 AND PAINTED M270 GRADE 36 STRUCTURAL STEEL CONNECTIONS. FIELD PAINTING OF BOLTS TO INCLUDE INTERMEDIATE AND FINAL COATING SYSTEMS AFTER CONNECTION APPROVAL.
 - ALL WELDING SHALL CONFORM WITH THE PROVISIONS OF SUBSECTION 506.10.
 - ANY HOLES IN FASCIA BEAMS OR FASCIA GIRDER WEBS NOT OTHERWISE FILLED SHALL BE FILLED WITH BUTTON HEAD OR HEX HEAD BOLTS. SEE STANDARD SPECIFICATION SECTION 506.19 FOR BOLT TENSIONING REQUIREMENTS.
 - INTERMEDIATE DIAPHRAGM BOLTS SHALL BE ONLY SNUG TIGHT UNTIL THE ENTIRE DECK HAS BEEN PLACED AND CURED AT LEAST SEVEN DAYS. AT THAT TIME, THE BOLTS SHALL BE TIGHTENED TO SPECIFIED TORQUE.
 - AFTER SUPERSTRUCTURE STEEL HAS BEEN ERRECTED, ELEVATIONS ALONG THE TOP OF BEAMS SHALL BE TAKEN AS DIRECTED BY THE ENGINEER FOR USE IN DETERMINING FINAL GRADE.
 - ALL REINFORCING STEEL SHALL BE DETAILED AND FABRICATED USING PROCEDURES AND TOLERANCES IN ACCORDANCE WITH APPLICABLE PUBLICATIONS OF THE "CONCRETE REINFORCING STEEL INSTITUTE".
 - MINIMUM COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS: SUBSTRUCTURE: TWO (2) INCHES ALONG BACK FACES OF WALLS AGAINST EARTH, AND THREE (3) INCHES ELSEWHERE. FOR BRIDGE DECK: 2 1/2" MIN. COVER FOR TOP REINFORCING, AND 1 1/2" MIN. COVER FOR BOTTOM REINFORCING.
 - REINFORCING PLACEMENT TOLERANCES SHALL BE: SPACING +/- 1" CLEARANCE +/- 1/4"
 - DRILLING AND GROUTING OF REINFORCING STEEL INTO EXISTING CONCRETE SHALL BE PAID FOR UNDER ITEM 507.16.
 - DECK CONCRETE SHALL BE "CONCRETE, CLASS A". CURB CONCRETE SHALL BE "SILICA FUME CONCRETE." ALL OTHER CONCRETE SHALL BE "CONCRETE, CLASS B" UNLESS OTHERWISE DESIGNATED ON THE PLANS.
 - ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" BY 1".
 - SURFACES OF BRIDGE SEATS UNDER BEARING DEVICES SHALL BE LEVEL. OTHER BRIDGE SEAT AREAS SHALL BE SLOPED 1/2" PER FOOT. ABUTMENT SEATS SHALL BE SLOPED FULL WIDTH TOWARD CENTER SPAN. THE ENTIRE BRIDGE SEAT SURFACE SHALL BE SMOOTH WITH EITHER A WOOD OR MAGNESIUM FLOAT FINISH.
 - FOR EACH CONSTRUCTION PHASE, THE DECK SHALL BE PLACED IN A SINGLE OPERATION WITHIN AN 8 HOUR PERIOD. IF THIS CAN NOT BE ACCOMPLISHED DUE TO CIRCUMSTANCES BEYOND THE CONTRACTOR'S CONTROL, A NEAT (DAMMED) CONSTRUCTION JOINT SHALL BE USED. A NINETY-SIX HOUR DELAY BETWEEN PLACEMENTS SHALL BE OBSERVED.
 - WATER REPELLENT SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES EXCEPT THE UNDERSIDE OF DECK BETWEEN DRIP BEADS.
 - TRAFFIC SHALL BE ALLOWED ON THE NEW BRIDGE ONLY AFTER THE SPECIFIED CURE PERIOD HAS EXPIRED AND 28 DAY DESIGN STRENGTH HAS BEEN ATTAINED AS EVIDENCE BY TEST CYLINDERS CURED UNDER FIELD CONDITIONS.
 - JOINTS AND SCORE MARKS IN CONCRETE SHALL BE CONSTRUCTED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
 - THE KEY IN CONCRETE CONSTRUCTION JOINTS SHALL BE MONOLITHIC AND CONTINUOUS FOR THE FULL LENGTH OF THE JOINT. ANY UPWARD KEY SHALL BE PLACED INTEGRALLY WITH THE CONCRETE BELOW THE JOINT.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND SPACING OF FASCIA OVERHANG BRACKETS; HOWEVER, SPACING SHALL NOT EXCEED FOUR (4) FEET.
 - NO CONCRETE ABOVE THE BRIDGE SEATS SHALL BE PLACED UNTIL THE FINAL FINISHED GRADE OF THE DECK HAS BEEN ESTABLISHED, OR AS OTHERWISE PERMITTED BY THE ENGINEER.
 - ABUTMENTS ARE DESIGNED FOR HP 14X73 BEARING PILES DRIVEN TO REFUSAL ON ROCK.
 - ALL PILES SHALL BE FURNISHED WITH A REINFORCED PILE TIP OF PREFABRICATED CAST STEEL MEETING THE REQUIREMENTS OF ASTM A-27. SEE SUBSECTION 505.04 (e).
 - FILL IN AREAS THROUGH WHICH PILES ARE TO BE DRIVEN SHALL HAVE A MAXIMUM STONE SIZE OF NINE (9) INCHES.
 - THE ITEM 204.40 "COFFERDAM" SHALL BE USED FOR CONSTRUCTION OF BOTH ABUTMENTS. THE DESIGN AND SUBMITTAL PROCEDURES SHALL BE AS PER SUBSECTION 204.07
 - FOR EACH CONSTRUCTION PHASE, THE STONE FILL TYPE IV SHALL BE PLACED IN FRONT OF THE ABUTMENTS PRIOR TO ERRECTING THE STRUCTURAL STEEL.
 - THE EXISTING BRIDGE TO BE REMOVED IS FOUNDED ON TIMBER PILES. PORTIONS OF THE SUBSTRUCTURE ARE TO BE REMOVED AS INDICATED ON THE DRAWINGS.
 - IN STREAM CONSTRUCTION SHALL BE PERFORMED BETWEEN JUNE 1 AND OCTOBER 1, UNLESS THE CONTRACTOR OBTAINS WRITTEN PERMISSION FROM THE AGENCY OF NATURAL RESOURCES TO PERFORM SUCH WORK OUTSIDE OF THAT TIME FRAME.
 - TEN CUBIC YARDS OF STONE FILL TYPE IV HAS BEEN INCLUDED IN THE PROJECT FOR CONSTRUCTION OF A FISH HABITAT BOULDER CLUSTER. THIS CLUSTER SHALL BE LOCATED IN A HIGH VELOCITY PORTION OF THE STREAM A MINIMUM OF 25 FEET DOWNSTREAM OF THE EXISTING BRIDGE. FINAL LOCATION OF BOULDERS TO BE AS DIRECTED BY THE ENGINEER, BASED ON THE RECOMMENDATIONS OF THE DISTRICT FISHERIES BIOLOGIST AND/OR THE AGENCY OF NATURAL RESOURCES STREAM ALTERATION ENGINEER. CLUSTER SHALL CONSIST OF THREE BOULDERS, EACH 5 FOOT TO 6 FOOT IN DIAMETER, SPACED AT 10 FEET TO 15 FEET AND BURIED 1/3 DIAMETER BELOW STREAMBED.

HYDRAULIC DATA

1. DRAINAGE AREA: 65.50 MI.
 CHARACTER OF TERRAIN: STEEPLY SLOPED FORESTED UPLANDS - MODERATELY DEVELOPED FLOOD PLAIN
 NATURE OF STREAMBED: GRAVEL OVER DEEP SANDY SILT

Q 2.33	2000 CFS	Q 50	6550 CFS
Q 10	3750 CFS	Q 100	8200 CFS
Q 25	5100 CFS	Q 500	14200 CFS

DATE OF FLOOD OF RECORD: 1927 WATER SURFACE ELEVATION: 512 ESTIMATED DISCHARGE: 10 = 5.2 fps (approach section) ICE CONDITIONS: MODERATE TO HEAVY DRIFT MODERATE

NATURAL STREAM VELOCITY @ Q 10 = 5.2 fps (approach section)

DOES THE STREAM REACH MAX. HIGHWATER ELEVATION RAPIDLY? YES

IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? DOWNSTREAM

IF YES, DESCRIBE: CONFLUENCE OF THE LAMOILLE RIVER IS APPROX. 0.35 MILES DOWNSTREAM

WATERSHED STORAGE: 2% HEADWATERS X UNIFORM THROUGHOUT WATERSHED IMMEDIATELY ABOVE SITE

EXISTING STRUCTURE

1. STRUCTURE TYPE: STEEL THROUGH GIRDER YEAR BUILT: 1928
 2. SPAN NORMAL TO STREAM: 66
 3. VERTICAL CLEARANCE ABOVE STREAMBED: 13.8'
 4. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM): 810 SF
 5. DISPOSITION OF STRUCTURE: SUPERSTRUCTURE AND PORTIONS OF SUBSTRUCTURE TO BE REMOVED
 6. TYPE OF SUBSTRUCTURE FOUNDATION MATERIAL: WOODEN PILES THROUGH SANDY SILT

7. WATER SURFACE ELEVATION @ Q 2.33	486.17	APPROACH AREA VELOCITY @	6.9 fps
Q 10	488.53 (491.56) +2		8.7 fps (5.7 fps)
Q 25	489.98		10.4 fps
Q 50	491.42 (496.27)		12.4 fps (8.1 fps)
Q 100	493.16 (497.71)		14.3 fps (8.1 fps)

8. LONG TERM STREAM BED CHANGES: SINUOUS STREAM

9. IS THE ROADWAY OVERTOPPED BELOW THE Q100? NO FREQUENCY: +3
 10. RELIEF ELEVATION: +3 DISCHARGE OVER ROAD @ Q100: 61.4 cfs (43.2 cfs) 0.75%

PROPOSED STRUCTURE

STRUCTURE GEOMETRY:

1. STRUCTURE TYPE: REINFORCED CONCRETE SLAB ON STEEL GIRDERS
 2. CLEAR SPAN LENGTH(S) NORMAL TO STREAM: 71'
 3. VERTICAL CLEARANCE ABOVE STREAMBED: 12.8'
 4. ARE PROVISIONS TO BE MADE FOR PUBLIC UTILITIES? YES WATER LINE ON BRIDGE & BURIED SEWER LINE UNDER RIVER

HYDRAULIC DATA:

1. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM): 780 SF
 2. WATER SURFACE ELEVATION @ Q 2.33: 486.38 APPROACH AREA VELOCITY: 7.3 fps
 Q 10: 488.71 (491.56) +2 8.8 fps (5.5 fps) +2
 Q 25: 490.15 10.4 fps
 Q 50: 491.55 (496.38) 12.4 fps (8.1 fps)
 Q 100: 493.11 (497.71) 14.3 fps (8.1 fps)

3. IS THE ROADWAY OVERTOPPED BELOW THE Q100? NO FREQUENCY: +3
 4. RELIEF ELEVATION: +3 DISCHARGE OVER ROAD @ Q100: 24.5 fps (43.2 fps)

5. AVERAGE LOW ELEVATION OF SUPERSTRUCTURE: 492.7' (LIMITED BY LOW STEEL)
 6. VERTICAL CLEARANCE @ Q100: 0
 7. SCOUR: 0'
 8. REQUIRED CHANNEL PROTECTION: STONE FILL, TYPE IV

ALLOWABLE STRESSES:

1. DESIGN LIVE LOAD AASHTO: HS25 ON LEDGE
 2. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL: TYPE HP 14 X 73 ESTIMATED LENGTH Abutment no.1 = 35 ft Abutment no.2 = 40 ft
 3. ALLOWABLE LOAD FOR PILING: 182.6 KIPS
 4. ALLOWABLE STRESS FOR STRUCTURAL STEEL AASHTO M 270: GR50 TENSION: 22 KSI
 5. ALLOWABLE STRESS FOR REINFORCING STEEL GRADE 60 TENSION: 24000 PSI COMPRESSION: 20000 PSI
 6. ALLOWABLE STRESS FOR CONCRETE CLASS A: f_c: 4000 PSI f_c: 1400 PSI
 CLASS B: f_c: 3500 PSI f_c: 1400 PSI
 SILICA FUME: f_c: 5000 PSI f_c: 2000 PSI

TRAFFIC MAINTENANCE:

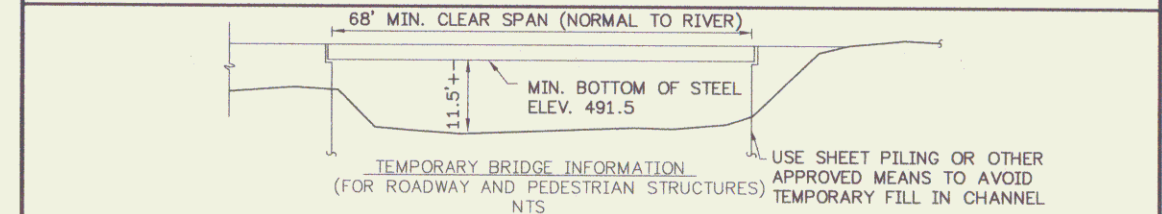
1. IS TRAFFIC TO BE MAINTAINED? YES IF YES, ON EXISTING STRUCTURE OR ON TEMPORARY BRIDGE X
 2. TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY TWO WAY TRAFFIC CONTROL SIGNALS REQUIRED NO (SEE SKETCH BELOW)
 MINIMUM CLEAR SPAN SEE SKETCH BELOW MINIMUM CLEAR HEIGHT SEE SKETCH BELOW MINIMUM WATERWAY AREA
 ARE SIDEWALKS REQUIRED? YES IF SO, ON WHAT SIDE? SEPARATE STRUCTURE

PERMIT INFORMATION:

AVERAGE DAILY FLOW: 134 cfs ORDINARY LOW WATER: 61 cfs DEPTH: 1 ft
 ORDINARY HIGH WATER: 858 cfs DEPTH: 4 ft

NOTES:

*1. ESTIMATED FROM 1928 PLANS OF EXISTING BRIDGE.
 *2. WATER SURFACE ELEVATION AND FLOW VELOCITY VALUES SHOWN FIRST ARE FOR LOW LAMOILLE RIVER CASE. VALUES SHOWN SECOND (IN PARENTHESES) ARE FOR HIGH LAMOILLE RIVER CASE. ALL WATER SURFACE ELEVATIONS ARE FOR THE WSPRO APPROACH SECTION.
 *3. FOR BOTH THE EXISTING AND NEW STRUCTURES, ROADWAY OVERTOPPING WILL OCCUR ABOVE A 100 YEAR FLOOD FOR THE LOW LAMOILLE RIVER CASE AND AT ABOUT THE 50 YEAR FLOOD FOR THE HIGH LAMOILLE RIVER CASE. ROAD GRADE IS ABOUT 496.2 FOR BOTH THE EXISTING AND NEW STRUCTURES.
 *4. CONFLUENCE WITH LAMOILLE RIVER 0.35 MILES DOWNSTREAM.



LOAD RATING (TONS)

STRESS LEVELS	TRUCK				
	H	HS	3S2	6 AXLE 3A STR 4A STR 5A SEM	5A SEM
INVENTORY					
0.55F _y = 27 ksi					
POSTED					
0.67F _y = 33.5 ksi					
OPERATING					
0.75F _y = 37.5 ksi					

REVISIONS

NO.	DESCRIPTION	BY & DATE

STATE OF VERMONT
AGENCY OF TRANSPORTATION

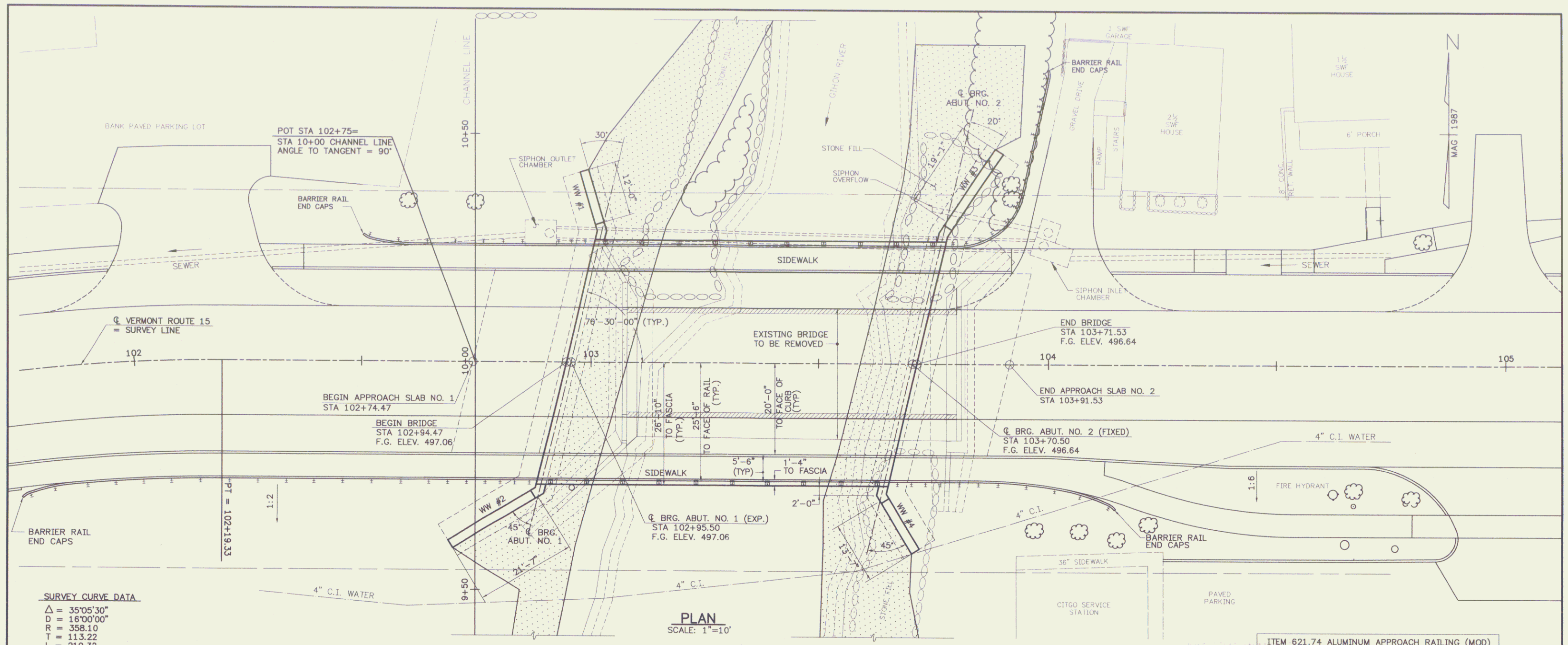
Town Of: JOHNSON Bridge No.: 37
 Highway No.: VT ROUTE 15 Log Sta.:
 Surv. Sta.:

VT ROUTE 15 OVER THE GIHON RIVER

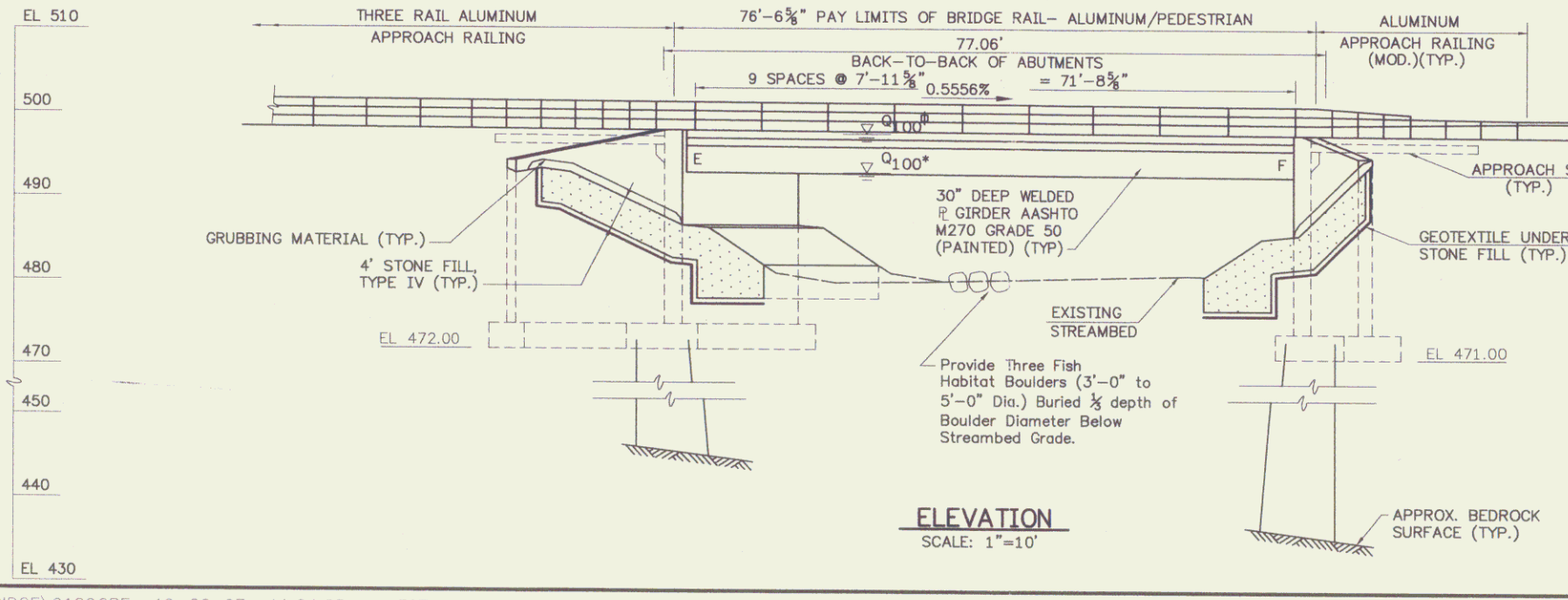
PRELIMINARY INFORMATION

Designed By: E. M. STUMPH Drawn By: G. F. BONIN
 Checked By: Date: Bridge Design Supervisor: Date:

PROJECT: JOHNSON PROJECT NO.: BRF 030-2(17)S
 I.G.C. Info. ROW. SHEET 4 OF 9 SHEETS



SURVEY CURVE DATA
 $\Delta = 35^{\circ}05'30''$
 $D = 16^{\circ}00'00''$
 $R = 358.10$
 $T = 113.22$
 $L = 219.32$
 $E = 17.47$
 BANK = 0.040 FT/FT RT.



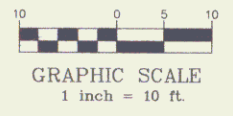
ITEM 621.74 ALUMINUM APPROACH RAILING (MOD)

LOCATION	PAY LENGTH
WW1	50'-11"
WW2	113'-5"
WW3	50'-11"
WW4	50'-11"

• APPROACH RAIL TO BE THREE-BAR ALUMINUM RAIL THROUGHOUT AT THESE LOCATIONS.

• 100 YEAR WATER SURFACE ELEVATION SHOWN IS THE GIHON RIVER PEAK 100 YEAR FLOOD LEVEL WITH A COINCIDENT 100 YEAR PEAK ON THE LAMOILLE RIVER.

• 100 YEAR WATER SURFACE ELEVATION SHOWN IS THE GIHON RIVER PEAK 100 YEAR FLOOD LEVEL WITHOUT A COINCIDENT 100 YEAR PEAK ON THE LAMOILLE RIVER.



STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of	JOHNSON	Bridge No.	37
Highway No.	VT ROUTE 15	Log Sta.	
		Surv. Sta.	
VT ROUTE 15 OVER THE GIHON RIVER			
BRIDGE PLAN AND ELEVATION			
Designed By	E. M. STUMPH	Drawn By	G. F. BONIN
Checked By	Date	Bridge Design Supervisor	Date
PROJECT	JOHNSON	PROJECT NO.	BRF 030-2(17)S
I.G.C. Info.			
R.O.W. SHEET 5 OF 9 SHEETS			

CLD
 Charles Lamoreaux & de Napoli, Inc.
 Consulting Engineers
 540 Commercial Street
 Montpelier, VT 05602
 (802)368-8223 FAX(802)368-8802

TABLE OF PROJECT PROPERTY ACQUISITION

STATE OF VERMONT
AGENCY OF TRANSPORTATION
RIGHT OF WAY PLANS
DETAIL SHEET

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS	REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1	SAUVE, PAUL J.	9	100+00 CL 100+20 RT. 100+82 RT. 100+94 RT. 100+99 RT. 101+00 RT. 101+24 RT. 102+00 RT. 102+64 RT. 102+79 RT.	103+16 CL 102+97 RT. 101+87 RT. 101+12 RT. 101+07 RT. 102+82 RT. 102+72 RT. 103+04 RT.	0.27A±		ALL R. T. & I. CONST. (T) 3270 S.F.± REMOVE (T) ALL R. T. & I. REMOVE (T) SLOPE (P) 280 S.F.± CUL., DIT. & DR. (P) CHANNEL (P) 720 S.F.±			JOHNSON			VT. RTE. 15-HWY EASEMENT DRIVE 30' PAVED M.M. 0388 18" METAL PIPE/ DROP INLET ISLAND WITH LIGHTED SIGN AND CONCRETE BASE WITH LUMINAIRE CONCRETE BASE DRIVE 12' PAVED M.M. 0390	1	6, 9	PARCEL NO. 1 SAUVE. REMOVE DRIVE (T) AT STA. 100+84 RT. AND DETOUR (T) FOR TEMP. SIDEWALK. ADD DRIVE (T) AT STA. 100+20 RT. AND STA. 101+24 RT. PER C.O. 9046.	06-18-99	R. M. W.	L. W. B.
2A	POMERLEAU FAMILY PARTNERSHIP (LESSOR) LESSEES: JOHNSON PHARMACY CHAMPLAIN OIL COMPANY INC. GRAND UNION STORES, INC. OF VERMONT UNITED STATES POSTAL SERVICE THE MERCHANTS BANK	9	+ 103+54 RT.	106+50 RT.	0.30A±		ALL R. T. & I.			JOHNSON			VT. RTE. 15-HWY EASEMENT	2	6, 9	PARCEL NO. 2 POMERLEAU. REMOVE DETOUR (T) FOR TEMP. SIDEWALK. PER C.O. 9047.	06-18-99	R. M. W.	L. W. B.
2B		9	103+43 RT. 103+45 RT. 103+93 RT. 104+02 RT. 105+05 RT. 106+15 RT.	103+83 RT. 103+69 RT. 104+25 RT.	1470 S.F.±		INSTALL (T) EXCEPT & RESERVE RESET (T) DRIVE (T)						FILTER CURTAIN CONC. SIDEWALK & BUILDING SIGN-PERSONAL PROPERTY 32' PAVED M.M. 0397 37' PAVED DRIVE M.M. 0400	3	7, 9	PARCEL NO. 6. THE UNION BANK. ADD TRANSPLANT (T) TO THE FOLLOWING: STA. 101+73 LT. - SHRUBS STA. 101+94 LT. - HARDWOOD BUSH STA. 102+60 LT. - HARDWOOD SHRUB STA. 102+75 LT. - FLOWERING CRAB PER C.O. 9048.	06-18-99	R. M. W.	L. W. B.
3	THE GLORIA MOBBS REVOCABLE TRUST- ROBERT MOBBS, TRUSTEE	9	100+00 CL 100+55 LT.	100+77 CL	3035 S.F.±		ALL R. T. & I.			JOHNSON			VT. RTE. 15-HWY EASEMENT 12' GRAVEL DRIVE M.M. 0389	4	6, 9	PARCEL NO. 1 SAUVE. REMOVE TAKE ON SUB-PARCEL 1B. STA. 101+35 RT. ~ 103+06 RT.; 3950 S.F.±. REMOVE CONST. (T) AT 100+96 RT. ~ 100+81 RT.; 700 S.F.±. REMOVE DRAINAGE (P) AT 102+00 RT. REMOVE DRAINAGE (P) AT STA. 102+45 RT. PER C.O. 9069.	09-02-99	M. J. R.	L. W. B.
4	MOBBS, ROBERT L. & GLORIA J.	9	100+54 LT. 100+55 LT. 100+66 LT.	101+07 CL 100+69 LT. 100+70 LT.	2200 S.F.±		ALL R. T. & I. CONST. (T) 120 S.F.± SLOPE (T) 5 S.F.±			JOHNSON			VT. RTE. 15 & TH 37 HWY EASEMENT	5	6, 9	PARCEL NO. 1 SAUVE. ADD CONST. (T) AT STA. 100+82 RT. ~ 102+92 RT.; 3720 S.F.±. ADD SLOPE (P) AT STA. 102+04 RT. ~ 102+82 RT.; 280 S.F.±. ADD CUL., DIT. & DRAINAGE (P) AT STA. 102+64 RT. ~ 102+72 RT. ADD CHANNEL (P) AT STA. 102+79 RT. ~ 103+04 RT.; 720 S.F.±. PER C.O. 9068.	09-02-99	M. J. R.	L. W. B.
														6	6, 9	PARCEL NO. 2 POMERLEAU. REMOVE DETOUR (T) AT STA. 103+83 RT. ~ 104+25 RT. PER C.O. 9086.	11-29-99	B. A. H.	L. W. B.
														7	7, 9	PARCEL NO. 5 WESTOVER. CHANGE OWNER TO: CHARETTE, TROY J. & MILLER, VERONICA J. PER C.O. 9100.	03-16-00	M. J. R.	L. W. B.

ACCT.MRyan
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DATE PLOTTED 23-JUN-2000

DR. (P)- DRAINAGE RIGHT
DIT. (P)- DITCHING RIGHT
CH. (P)- CHANNEL RT.
DRIVE (T)- DRIVE RIGHT
CUL. (P)- CULVERT RIGHT
[W]- WATER SOURCES

PRESENT R.O.W.
TAKING WITHOUT ACCESS
TAKING WITHOUT ACCESS ALONG PROPERTY LINE
TAKING WITH ACCESS
PERMANENT EASEMENT
TEMPORARY EASEMENT

LEGEND
C&T (P) CLEARING & TRIMMING
CZ (P) CLEAR ZONE
CONSTR. (T) CONSTRUCTION EASEMENT
SR SLOPE RIGHTS
P PROPERTY LINE
L TOP OF CUT
O TOE OF SLOPE

REVISED 03-16-00

APPROVED: LAWRENCE W. BLISS DATE: 10-13-98
AGENT D, PLANS & TITLES

R. O. W. PLANS

JOHNSON
BRF 030-2(17) S
SHEET 6 OF 9

TABLE OF PROJECT PROPERTY ACQUISITION

**STATE OF VERMONT
AGENCY OF TRANSPORTATION
RIGHT OF WAY PLANS
DETAIL SHEET**

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS	REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY	
5	CHARETTE, TROY J. & MILLER, VERONICA J.	9	100+91 LT. 101+18 LT. 101+34 LT.	101+62 LT. 101+66 LT. 101+63 LT.	2740 S.F. ±		ALL R. T. & I. CONST. (T) 200 S.F. ± SLOPE (T) 50 S.F. ±			JOHNSON			VT. RTE. 15-HWY EASEMENT							
6A	UNION BANK	9	101+38 CL. 101+62 LT. 101+63 LT. 101+69 LT.	103+38 LT. 101+73 LT. 101+78 LT. 101+73 LT.	0.16A±		ALL R. T. & I. SLOPE (T) 15 S.F. ± CONST. (T) 75 S.F. ± REMOVE & RESET (T)			JOHNSON			VT. RTE. 15-HWY EASEMENT LIGHTED SIGN WITH PLANTER PERSONAL PROPERTY SHRUB HARDWOOD BUSH 29' PAVED M.M. 0392							
			101+71 LT. 101+94 LT. 102+12 LT. 102+30 LT. 102+30 LT. 102+60 LT. 102+58 LT.	102+86 LT. 102.79 LT. 102+60 LT.			TRANSPLANT (T) TRANSPLANT (T) DRIVE (T) CONST. (T) 270 S.F. ± SLOPE (T) 125 S.F. ± TRANSPLANT (T) REMOVE & RESET (T)						HARDWOOD SHRUB CHAIN LINK FENCE LENGTH= ±5 FT FLOWERING CRAB							
6B		9	102+71 LT.	103+49 LT.	2610 S.F. ±					JOHNSON										
7A	VIEUX, RODNEY F.	9	103+58 LT. 104+03 LT. 104+15 LT.	104+46 LT. 104+37 LT.	3110 S.F. ±		ALL R. T. & I. DRIVE (T) EXCEPT & RESERVE			JOHNSON			VT. RTE. 15-HWY EASEMENT 16' GRAVEL M.M. 0395 STONE WALL							
7B		9	103+66 LT. 103+67 LT. 103+67 LT.	104+00 LT. 104+00 LT. 103+98 LT.	990 S.F. ±		CONST. (T) 330 S.F. ± INSTALL (T)			JOHNSON			FILTER CURTAIN							

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DATE PLOTTED 23-JUN-2000

DR. (P)- DRAINAGE RIGHT
DIT. (P)- DITCHING RIGHT
CH. (P)- CHANNEL RT.
DRIVE (T)- DRIVE RIGHT
CUL. (P)- CULVERT RIGHT
[W]- WATER SOURCES

PRESENT R.O.W.
TAKING WITHOUT ACCESS
TAKING WITHOUT ACCESS ALONG PROPERTY LINE
TAKING WITH ACCESS
PERMANENT EASEMENT
TEMPORARY EASEMENT

LEGEND
C&T (P) --- CLEARING & TRIMMING
CZ (P) --- CLEAR ZONE
CONSI (T) --- CONSTRUCTION EASEMENT
SR --- SLOPE RIGHTS
P --- PROPERTY LINE
L --- TOP OF CUT
O --- TOE OF SLOPE

REVISED 03-16-00

R. O. W. PLANS

APPROVED: LAWRENCE W. BLISS DATE: 10-13-98
AGENT D, PLANS & TITLES

JOHNSON
BRF 030-2(17) S
SHEET 7 OF 9

TABLE OF PROJECT PROPERTY ACQUISITION

STATE OF VERMONT
AGENCY OF TRANSPORTATION
RIGHT OF WAY PLANS
DETAIL SHEET

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS	REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY	
8	LIBRETT, BERNARD E. & JULIE A.	9	104+46 CL 104+52 LT. 104+99 LT.	105+11 LT.	2405 S.F. ±		ALL R. T. & I. EXCEPT & RESERVE DRIVE (T)			JOHNSON			VT. RTE. 15-HWY EASEMENT CONC. RETAINING WALL - END 13' GRAVEL M.M. 0397							
9	JENNISON, WILLIAM H.	9	105+11 CL 105+20 LT.	105+91 LT. 105+60 LT.	2960 S.F. ±		ALL R. T. & I. EXCEPT & RESERVE			JOHNSON			VT. RTE. 15-HWY EASEMENT STONE WALL/STEPS							
10	THE UNITED CHURCH OF JOHNSON, INC.	9	105+91 LT. 106+30 LT.	106+50 LT.	2183 S.F. ±		ALL R. T. & I.						VT. RTE. 15-HWY EASEMENT DRIVE, 20' WIDE PAVED M.M. 0399							
11	TOWN OF JOHNSON	9	100+91 LT.	TH*37 30+85 CL			APPROACH (T)						TH*37 *GOULD HILL RD.*							
12	BELL ATLANTIC - NEW ENGLAND												TELEPHONE UTILITY							
13	FRONTIER VISION												CABLE UTILITY							
14	VILLAGE OF JOHNSON												SEWER, WATER UTILITY & ELECTRIC							
15	VILLAGE OF MORRISVILLE WATER & LIGHT DEPT.												ELECTRIC UTILITY							
	MAINTENANCE AGREEMENT AREA NO. 1	9	101+07 LT.	100+91 LT.									TH*37 LENGTH 48'							

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DATE PLOTTED 23-JUN-2000

DR. (P)- DRAINAGE RIGHT
DIT. (P)- DITCHING RIGHT
CH. (P)- CHANNEL RT.
DRIVE (T)- DRIVE RIGHT
CUL. (P)- CULVERT RIGHT
[W]- WATER SOURCES

PRESENT R.O.W.
TAKING WITHOUT ACCESS
TAKING WITHOUT ACCESS ALONG PROPERTY LINE
TAKING WITH ACCESS
PERMANENT EASEMENT
TEMPORARY EASEMENT

LEGEND
C&T (P) --- CLEARING & TRIMMING
CZ (P) CLEAR ZONE
CONST. (T) --- CONSTRUCTION EASEMENT
SR --- SLOPE RIGHTS
P --- PROPERTY LINE
L --- TOP OF CUT
O --- TOE OF SLOPE

REVISED 03-16-00

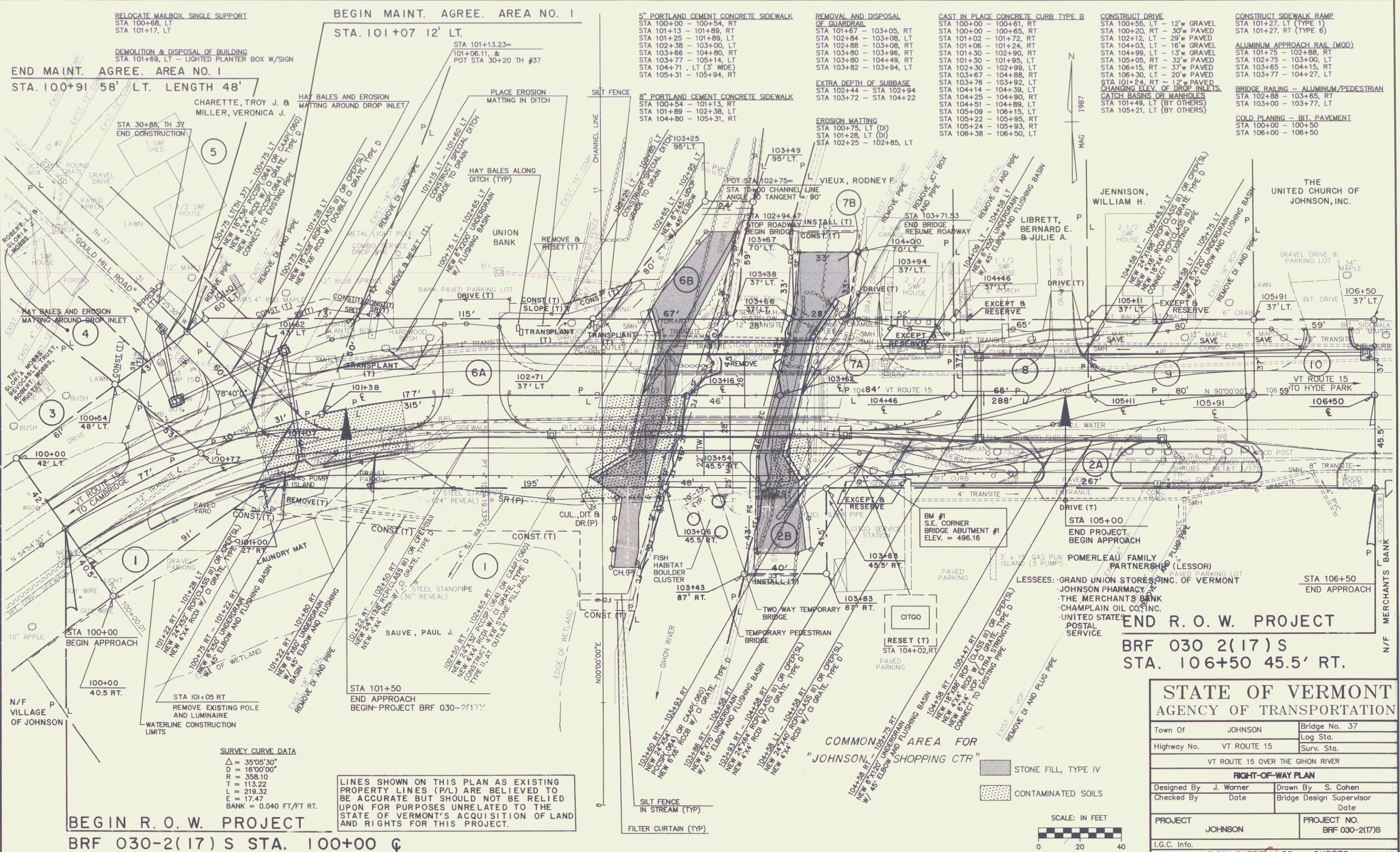
APPROVED: LAWRENCE W. BLISS DATE: 10-13-98
AGENT D, PLANS & TITLES

R. O. W. PLANS

JOHNSON
BRF 030-2(17) S
SHEET 8 OF 9

8

PLAN	DATE	BY
NOTE BOOK		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		



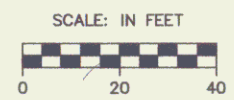
SURVEY CURVE DATA
 $\Delta = 35^{\circ}05'30''$
 $D = 16^{\circ}00'00''$
 $R = 358.10$
 $T = 113.22$
 $L = 219.32$
 $E = 17.47$
 $BANK = 0.040 \text{ FT/FT RT.}$

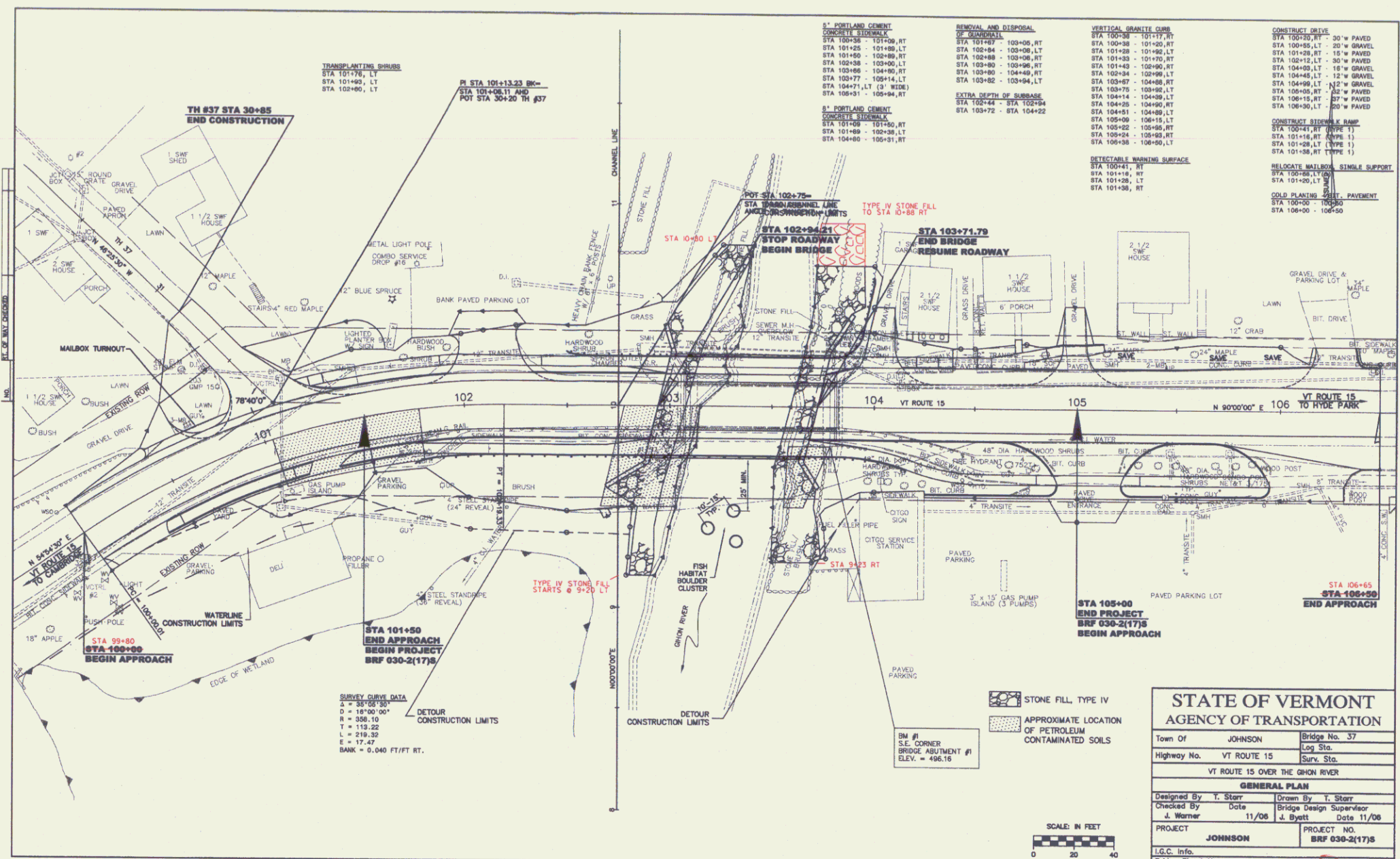
LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

BEGIN R. O. W. PROJECT
BRF 030-2(17) S STA. 100+00

END R. O. W. PROJECT
BRF 030 2(17) S
STA. 106+50 45.5' RT.

STATE OF VERMONT	
AGENCY OF TRANSPORTATION	
Town Of	JOHNSON
Highway No.	VT ROUTE 15
VT ROUTE 15 OVER THE GHION RIVER	
RIGHT-OF-WAY PLAN	
Designed By	J. Warner
Checked By	Date
Drawn By	S. Cohen
Bridge Design Supervisor	Date
PROJECT	JOHNSON
PROJECT NO.	BRF 030-2(17)S
I.G.C. Info.	
R.O.W. SHEET 9 OF 9 SHEETS	





1" PORTLAND CEMENT CONCRETE STA 100+28 - 101+00, RT STA 101+00 - 101+80, LT STA 101+80 - 102+00, RT STA 102+00 - 102+80, LT STA 102+80 - 103+00, RT STA 103+00 - 103+80, LT STA 103+80 - 104+00, RT STA 104+00 - 104+80, LT STA 104+80 - 105+00, RT STA 105+00 - 105+80, LT STA 105+80 - 106+00, RT	REMOVAL AND DISPOSAL OF EXISTING STA 100+28 - 101+00, RT STA 101+00 - 101+80, LT STA 101+80 - 102+00, RT STA 102+00 - 102+80, LT STA 102+80 - 103+00, RT STA 103+00 - 103+80, LT STA 103+80 - 104+00, RT STA 104+00 - 104+80, LT STA 104+80 - 105+00, RT STA 105+00 - 105+80, LT STA 105+80 - 106+00, RT	VERTICAL GRANITE CURB STA 100+28 - 101+00, RT STA 101+00 - 101+80, LT STA 101+80 - 102+00, RT STA 102+00 - 102+80, LT STA 102+80 - 103+00, RT STA 103+00 - 103+80, LT STA 103+80 - 104+00, RT STA 104+00 - 104+80, LT STA 104+80 - 105+00, RT STA 105+00 - 105+80, LT STA 105+80 - 106+00, RT	CONCRETE BRIDGE STA 100+28 - 101+00, RT STA 101+00 - 101+80, LT STA 101+80 - 102+00, RT STA 102+00 - 102+80, LT STA 102+80 - 103+00, RT STA 103+00 - 103+80, LT STA 103+80 - 104+00, RT STA 104+00 - 104+80, LT STA 104+80 - 105+00, RT STA 105+00 - 105+80, LT STA 105+80 - 106+00, RT
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STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of	JOHNSON	Bridge No.	37
Highway No.	VT ROUTE 15	Proj. No.	
VT ROUTE 15 OVER THE GHON RIVER			

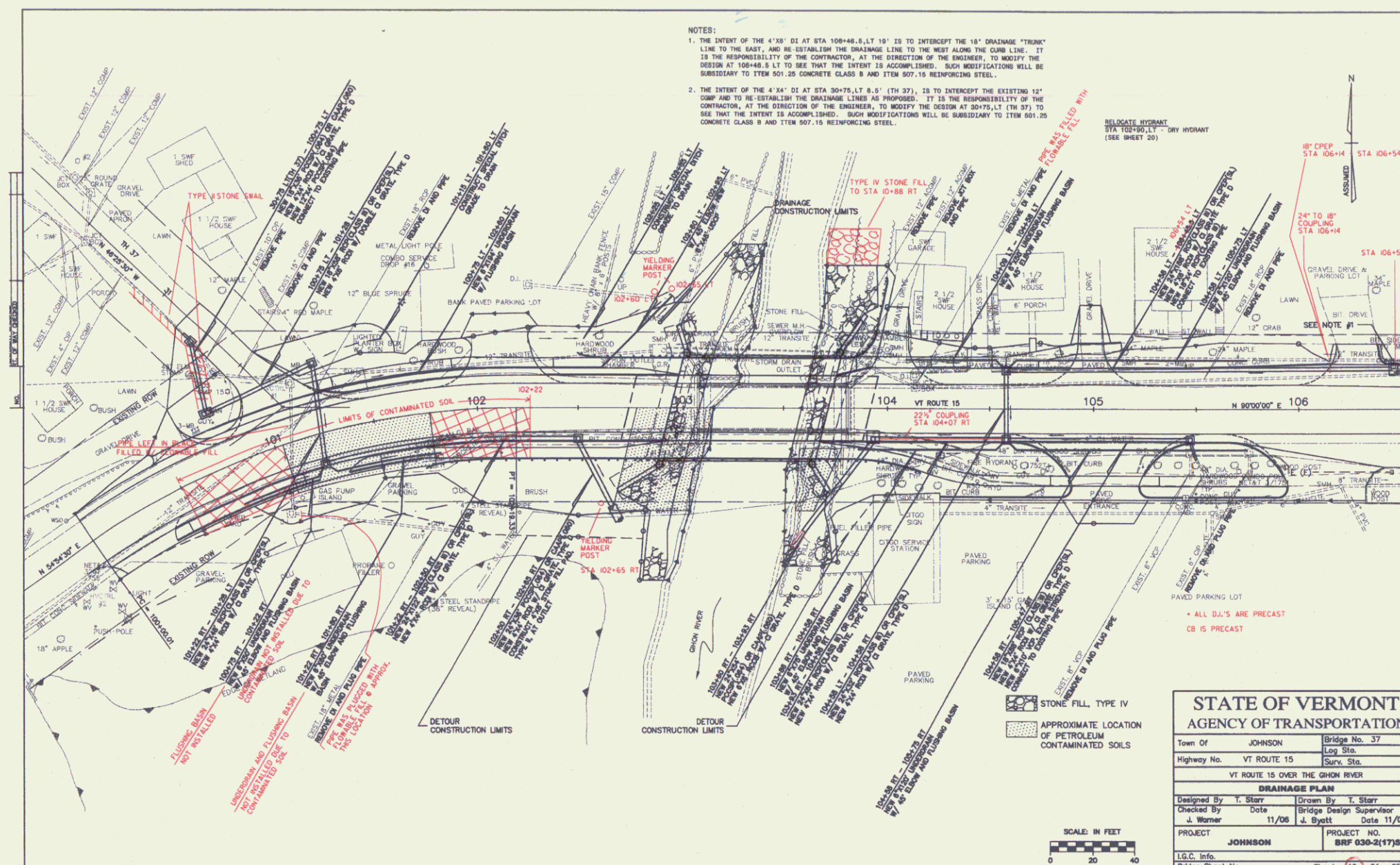
GENERAL PLAN

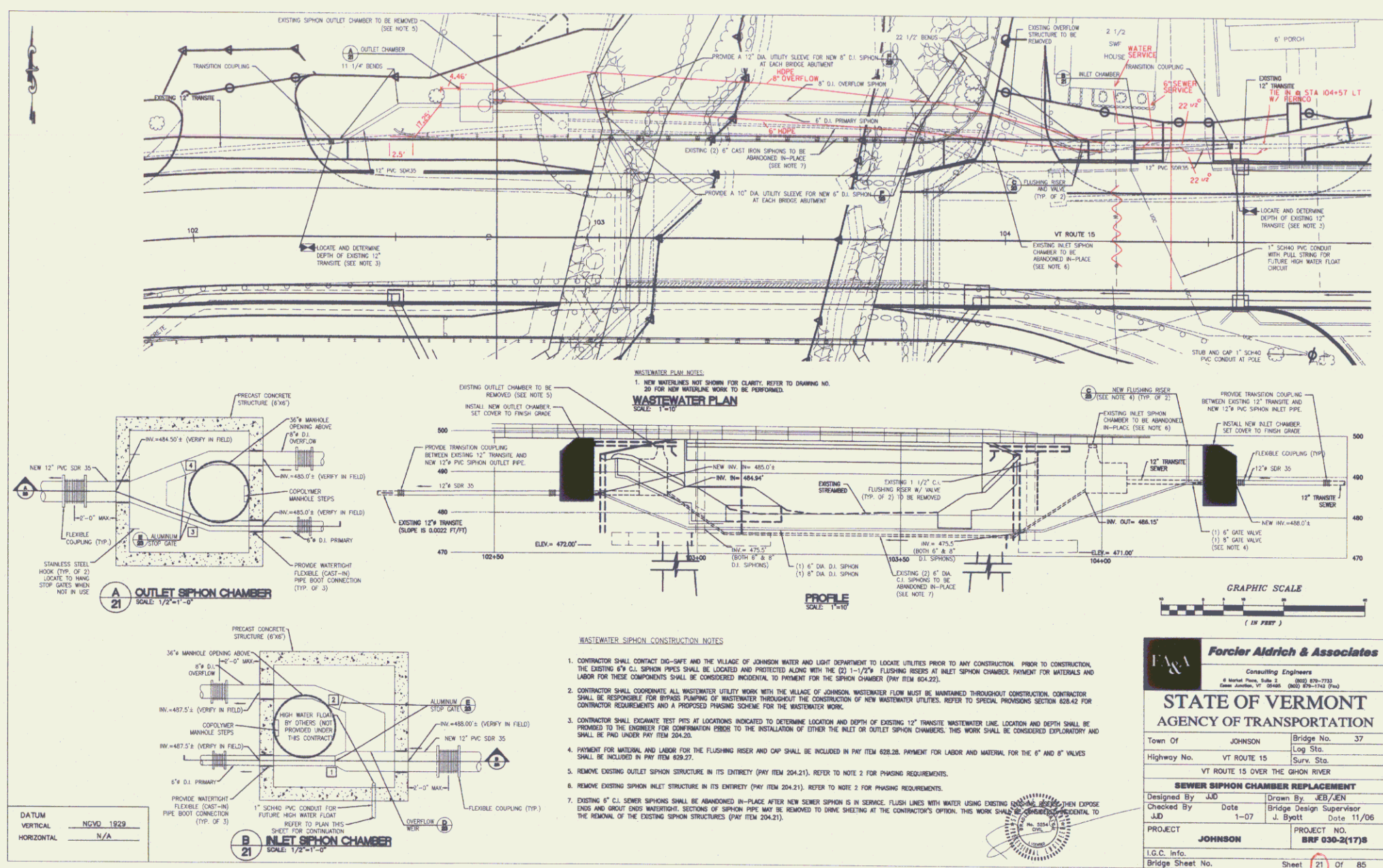
Designed By	T. Starr	Drawn By	T. Starr
Checked By	J. Warner	Bridge Design Supervisor	J. Warner
Date	11/08	Date	11/08

PROJECT NO. **JOHNSON** PROJECT NO. **BRF 030-2(17)S**

L.C.C. Info. PROJECT NO. **JOHNSON** PROJECT NO. **BRF 030-2(17)S**

Bridge Sheet No. **16** OF **85**





- SEWER SIPHON CONSTRUCTION NOTES**
- CONTRACTOR SHALL CONTACT DIS-SEPT AND THE VILLAGE OF JOHNSON WATER AND LEAD DEPARTMENT TO LOCATE UTILITIES PRIOR TO ANY CONSTRUCTION. PRIOR TO CONSTRUCTION, THE EXISTING 8" C.I. SIPHON PIPES SHALL BE LOCATED AND PROTECTED ALONG WITH THE 12" P.C. FLEXIBLE INBETS AT INLET SIPHON CHAMBER. PAYMENT FOR MATERIALS AND LABOR FOR THESE COMPONENTS SHALL BE CONSIDERED INCIDENTAL TO PAYMENT FOR THE SIPHON CHAMBER (PAY ITEM 204.21).
 - CONTRACTOR SHALL COORDINATE ALL WASTEWATER UTILITY WORK WITH THE VILLAGE OF JOHNSON WASTEWATER FLOW MUST BE MAINTAINED THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS FOR WASTEWATER THROUGHOUT THE CONSTRUCTION OF NEW WASTEWATER UTILITIES. REFER TO SPECIAL PROVISIONS SECTION 602.42 FOR CONTRACTOR REQUIREMENTS AND A PROPOSED PAVING SCHEDULE FOR THE WASTEWATER WORK.
 - CONTRACTOR SHALL EXCAVATE TEST PITS AT LOCATIONS INDICATED TO DETERMINE LOCATION AND DEPTH OF EXISTING 12" TRANSMIT WASTEWATER LINE. LOCATION AND DEPTH SHALL BE TURNED TO THE ENGINEER FOR CONFIRMATION PRIOR TO THE INSTALLATION OF EITHER THE INLET OR OUTLET SIPHON CHAMBER. THIS WORK SHALL BE CONSIDERED EXPLORATORY AND SHALL BE PAID UNDER PAY ITEM 204.23.
 - PAYMENT FOR MATERIAL AND LABOR FOR THE FLASHING RISER AND CAP SHALL BE INCLUDED IN PAY ITEM 602.38. PAYMENT FOR LABOR AND MATERIAL FOR THE 8" AND 6" VALVES SHALL BE INCLUDED IN PAY ITEM 602.27.
 - REMOVE EXISTING OUTLET SIPHON STRUCTURE IN ITS ENTIRETY (PAY ITEM 204.21). REFER TO NOTE 2 FOR PAVING REQUIREMENTS.
 - REMOVE EXISTING SIPHON INLET STRUCTURE IN ITS ENTIRETY (PAY ITEM 204.21). REFER TO NOTE 2 FOR PAVING REQUIREMENTS.
 - EXISTING 8" C.I. SIPHON PIPES SHALL BE MAINTAINED IN-PLACE AFTER NEW SIPHON IS IN SERVICE. FLASH LINES WITH WATER USING EXISTING 12" TRANSMIT WASTEWATER LINE. EXPOSE ENDS AND BLOCK DOWN WASTEWATER SYSTEMS OF SIPHON PIPE MAY BE REMOVED TO MAKE SURE AT THE CONTRACTOR'S OPTION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE REMOVAL OF THE EXISTING SIPHON STRUCTURES (PAY ITEM 204.21).

Forcier Aldrich & Associates
 Consulting Engineers
 100 Main St., 2nd Fl.
 Johnson, VT 05465
 (802) 241-1100

STATE OF VERMONT
AGENCY OF TRANSPORTATION

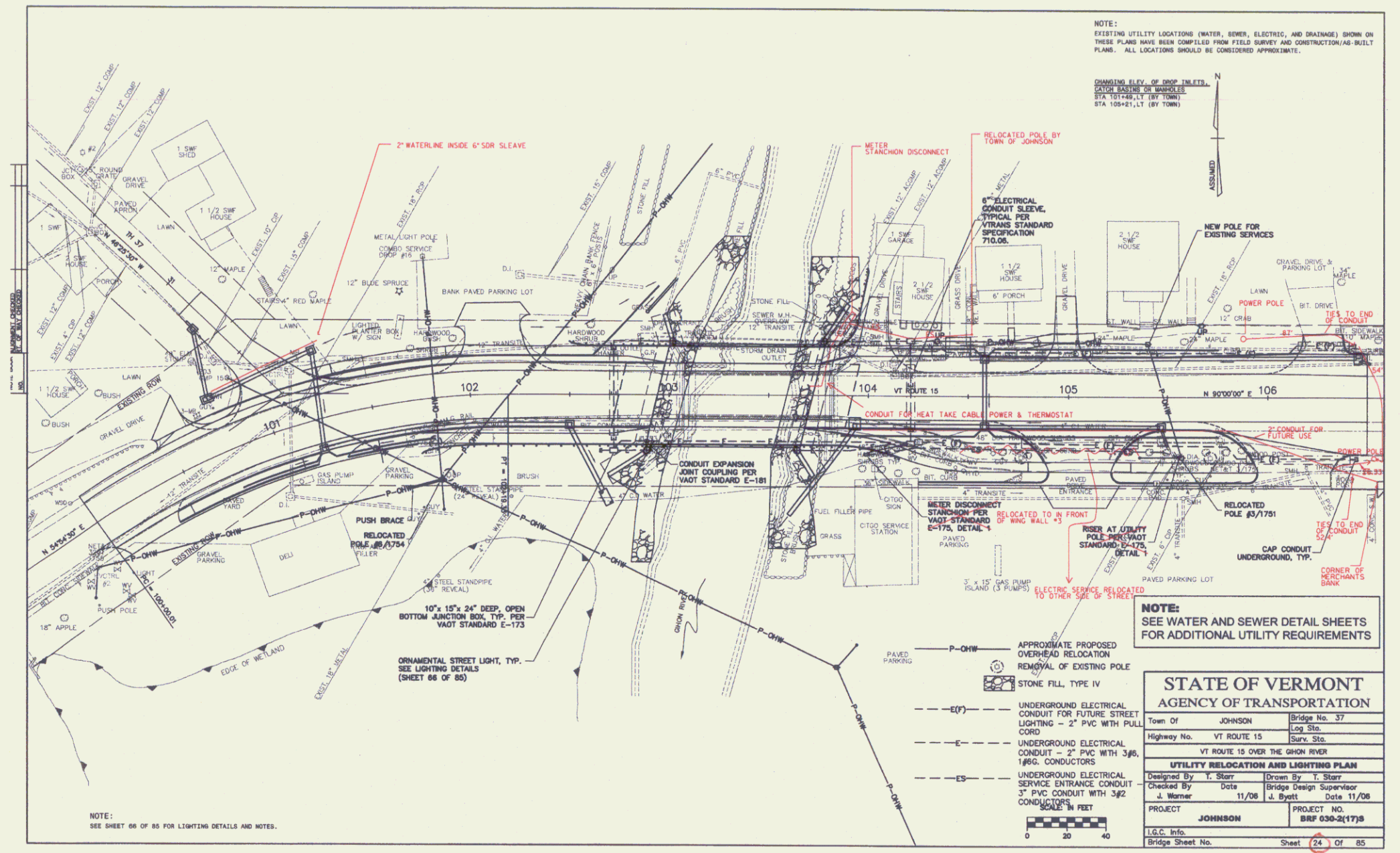
Town Of	JOHNSON	Bridge No.	37
Highway No.	VT ROUTE 15	Log. Sta.	
VT ROUTE 15 OVER THE GHON RIVER		Span. Sta.	

SEWER SIPHON CHAMBER REPLACEMENT

Designed By	JAD	Drawn By	JEB/JEN
Checked By	JAD	Date	1-07
PROJECT	JOHNSON	Bridge Design Supervisor	J. Byett
		Date	11/06

I.C.C. Info. PROJECT NO. **BRF 030-0(17)B**

Bridge Sheet No. **21** of 85



NOTE:
EXISTING UTILITY LOCATIONS (WATER, SEWER, ELECTRIC, AND DRAINAGE) SHOWN ON THESE PLANS HAVE BEEN COMPILED FROM FIELD SURVEY AND CONSTRUCTION/AS-BUILT PLANS. ALL LOCATIONS SHOULD BE CORROBORATED APPROPRIATELY.

CHANGING ELEV. OF SHOP IN SETS.
E-176 (SEE E-176) IN WORKSHEET
STA 105+41.17 TO 105+41.17
STA 105+41.17 TO 105+41.17

NOTE:
SEE WATER AND SEWER DETAIL SHEETS
FOR ADDITIONAL UTILITY REQUIREMENTS

STATE OF VERMONT	
AGENCY OF TRANSPORTATION	
Town Of	JOHNSON
Bridge No.	37
Highway No.	VT ROUTE 15
Surf. Sta.	
VT ROUTE 15 OVER THE GHON RIVER	
UTILITY RELOCATION AND LIGHTING PLAN	
Designed By	T. Starr
Checked By	J. Warner
Date	11/08
Project No.	BRP 030-2(17)B
I.G.C. Info.	
Bridge Sheet No.	Sheet 24 OF 85

NOTE:
SEE SHEET 86 OF 85 FOR LIGHTING DETAILS AND NOTES.