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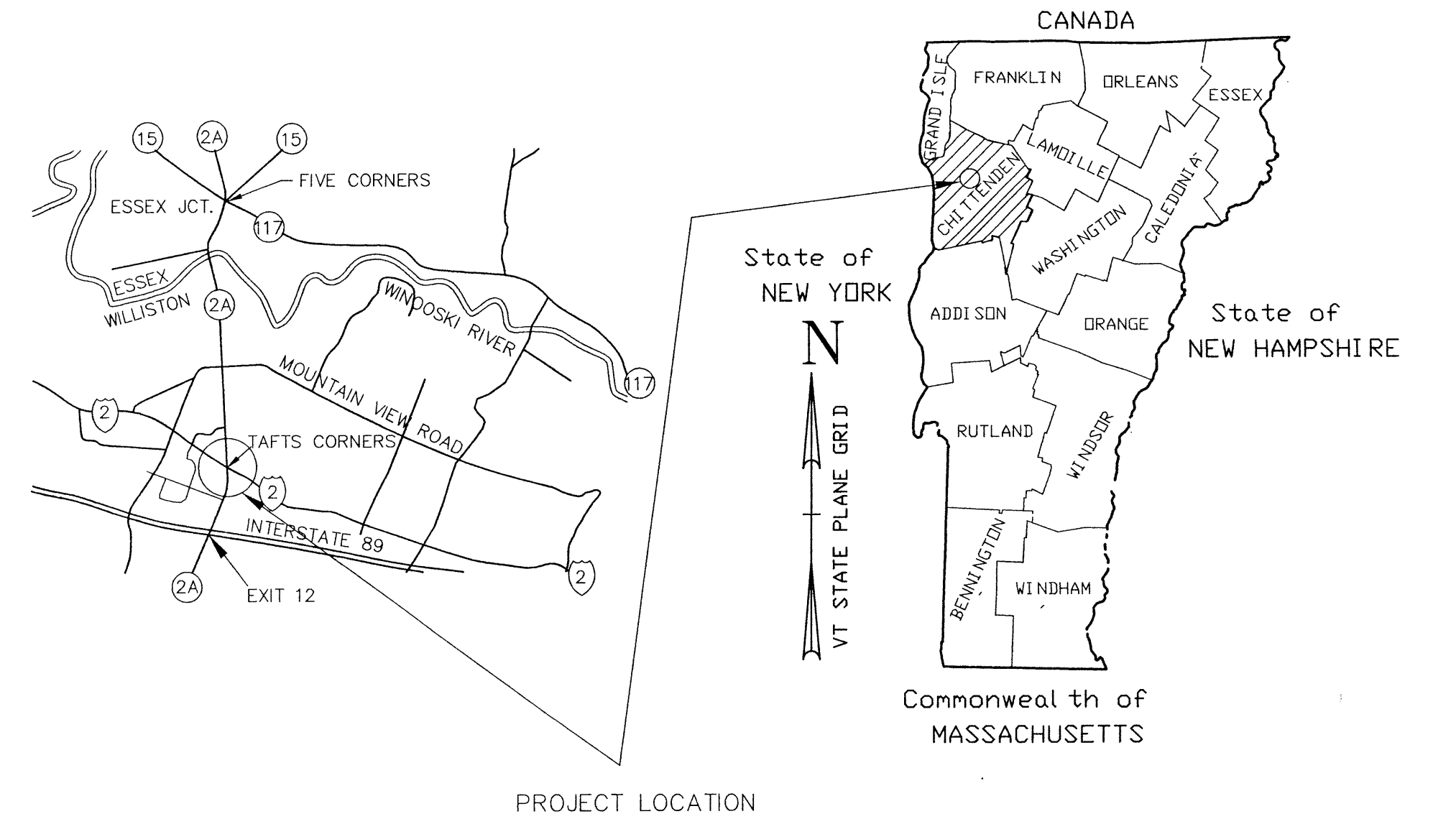
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STATE OF VERMONT  
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT  
TRAFFIC SIGNAL MODIFICATIONS

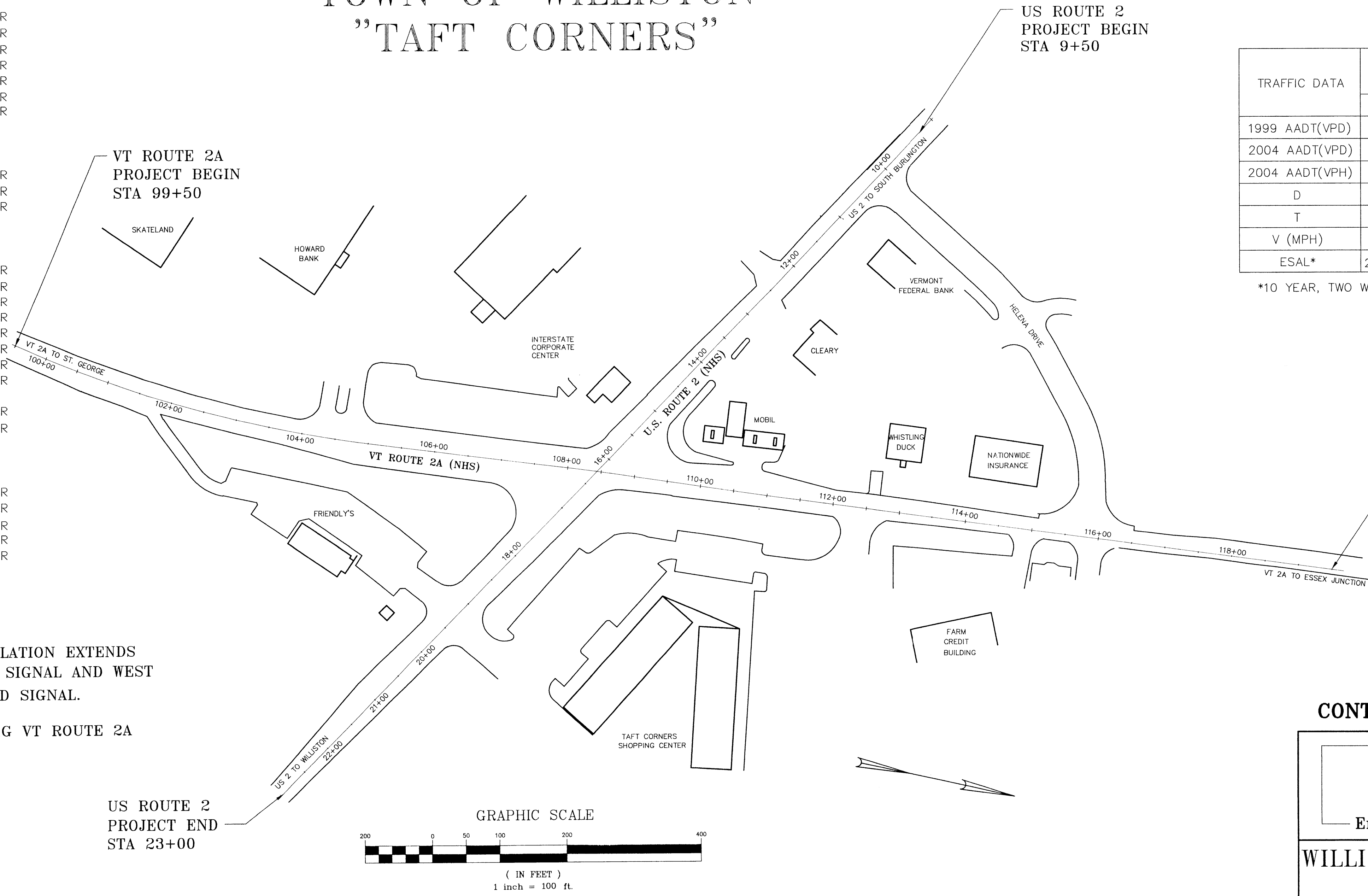
WILLISTON NHG 5500 (10)S  
US ROUTE 2 (FAP) & VT ROUTE 2A (FAP)  
TOWN OF WILLISTON  
"TAFT CORNERS"



PROJECT LOCATION

TRAFFIC DATA	VERMONT ROUTE 2A		US ROUTE 2	
	SOUTH	NORTH	WEST	EAST
1999 AADT(VPD)	20,050	13,850	13,000	9,900
2004 AADT(VPD)	22,250	15,350	14,450	11,000
2004 AADT(VPH)	2,290	2,130	1,680	1,630
D	49%	50%	62%	60%
T	2%	2%	3%	2%
V (MPH)	30	30	30	30
ESAL*	2,814,150	1,934,500	1,828,650	1,394,300

\*10 YEAR, TWO WAY



NOTE: 1. TRAFFIC SIGNAL AERIAL INTERCONNECT INSTALLATION EXTENDS SOUTH ALONG VT ROUTE 2A TO I-89 EXIT 12 SIGNAL AND WEST ALONG US ROUTE 2 TO SOUTH BROWNELL ROAD SIGNAL.

2. NHS = NATIONAL HIGHWAY SYSTEM (SOUTH LEG VT ROUTE 2A AND WEST LEG US ROUTE 2)

CONTRACT PLANS - 01\12\01

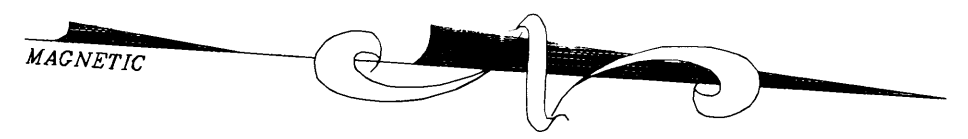
LAMOUREUX & DICKINSON  
Consulting Engineers Inc.  
14 Morse Drive  
Essex Junction, VT 05452  
(802) 878-4450  
Engineers-Planners-Surveyors

WILLISTON NHG 5500 (10)S  
"TAFT CORNERS"  
(US ROUTE 2 & VT ROUTE 2A)  
WILLISTON VERMONT  
SHEET 1 OF 45

DATUM	
VERTICAL	NGVD 88
HORIZONTAL	NAD 83

WORK TO BE PERFORMED UNDER THIS CONTRACT INCLUDES ROADWAY WIDENING, CURBING INSTALLATION, SIDEWALK CONSTRUCTION, REPLACEMENT SIGNAL INSTALLATION, TRAFFIC SIGNAL INTERCONNECT WIRING, INTERSECTION LIGHTING, SIGN REPLACEMENT, PAVEMENT OVERLAY AND NEW DURABLE PAVEMENT MARKINGS.

THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.

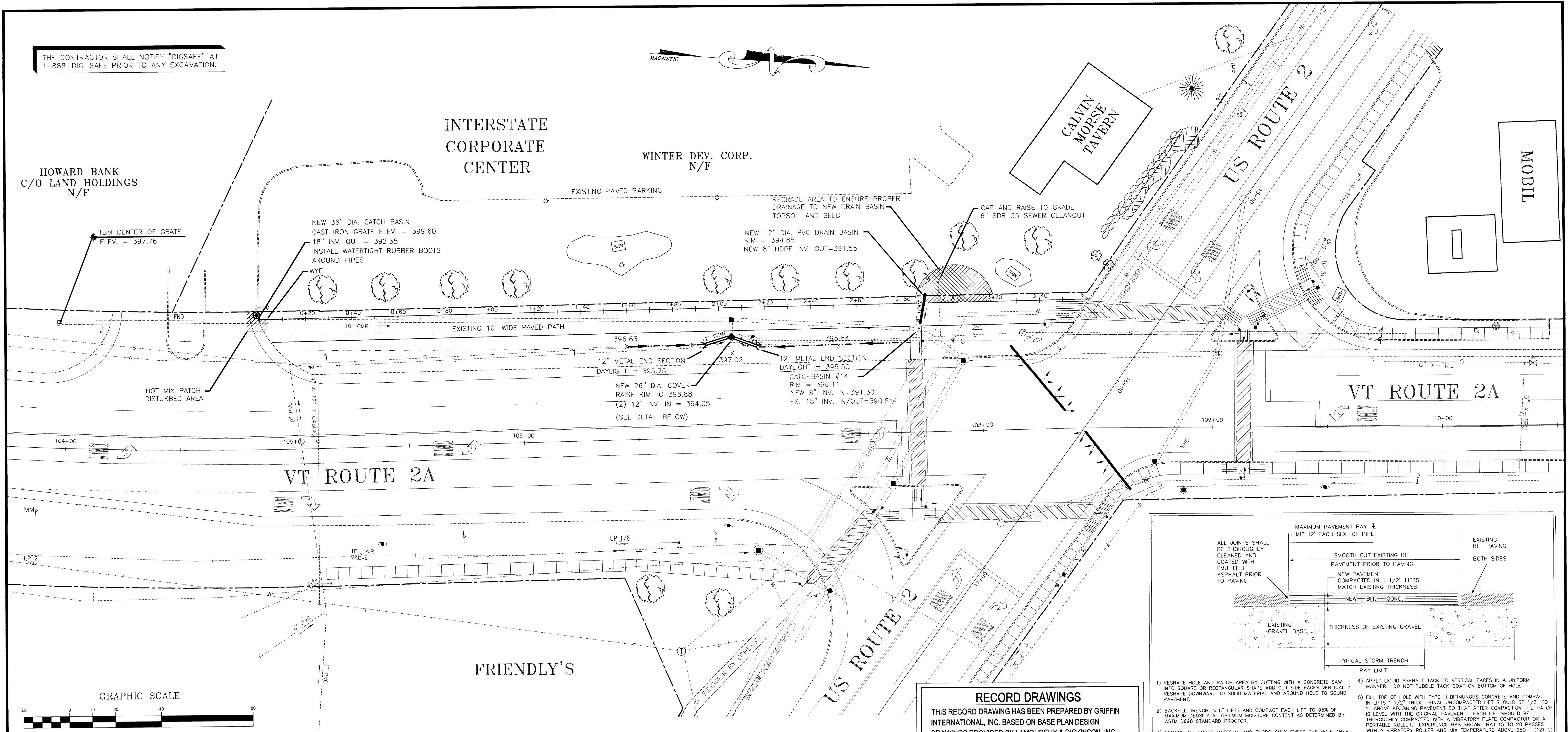


INTERSTATE CORPORATE CENTER  
WINTER DEV. CORP.  
N/F

CALVIN MORSE TAVERN

MOBIL

HOWARD BANK  
C/O LAND HOLDINGS  
N/F



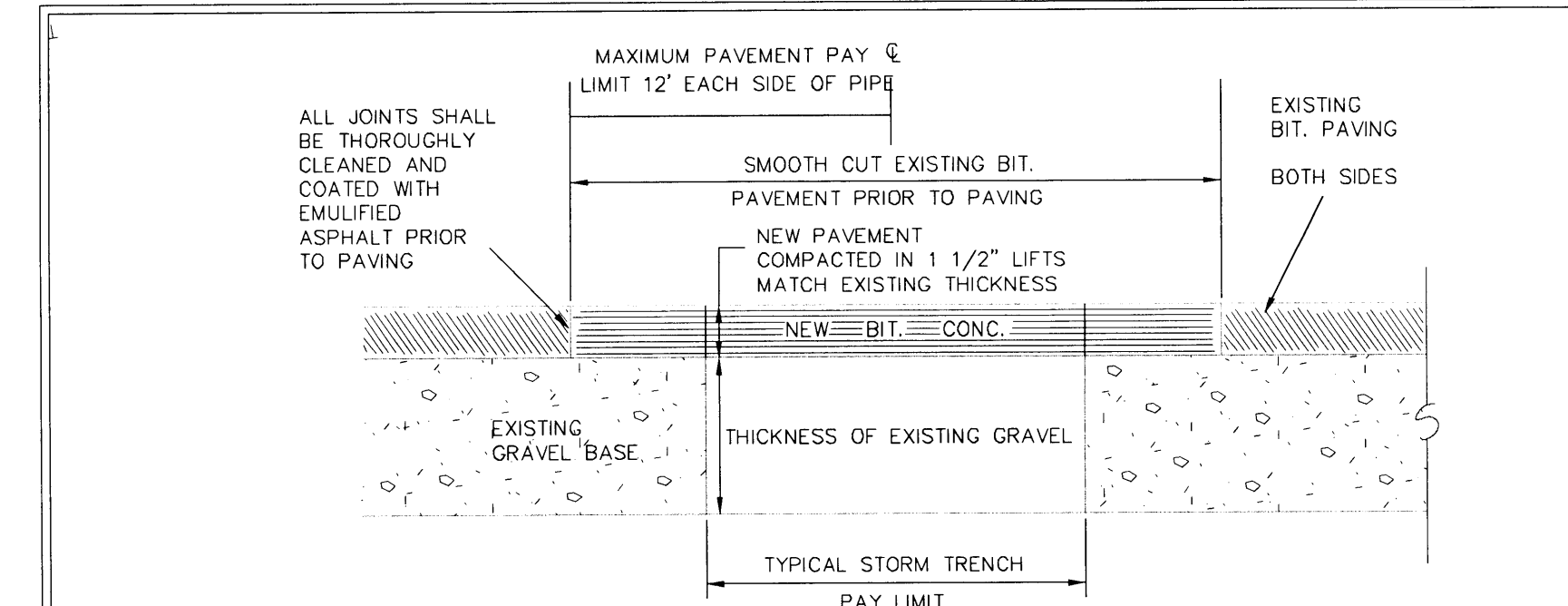
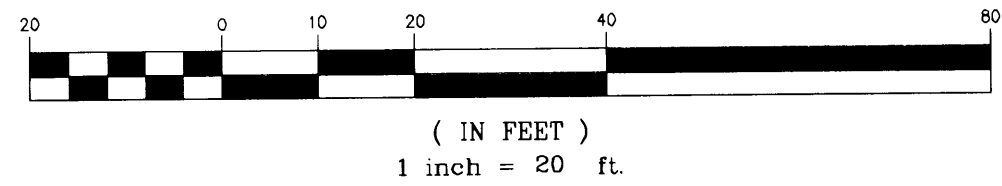
VT ROUTE 2A

VT ROUTE 2A

US ROUTE 2

FRIENDLY'S

GRAPHIC SCALE

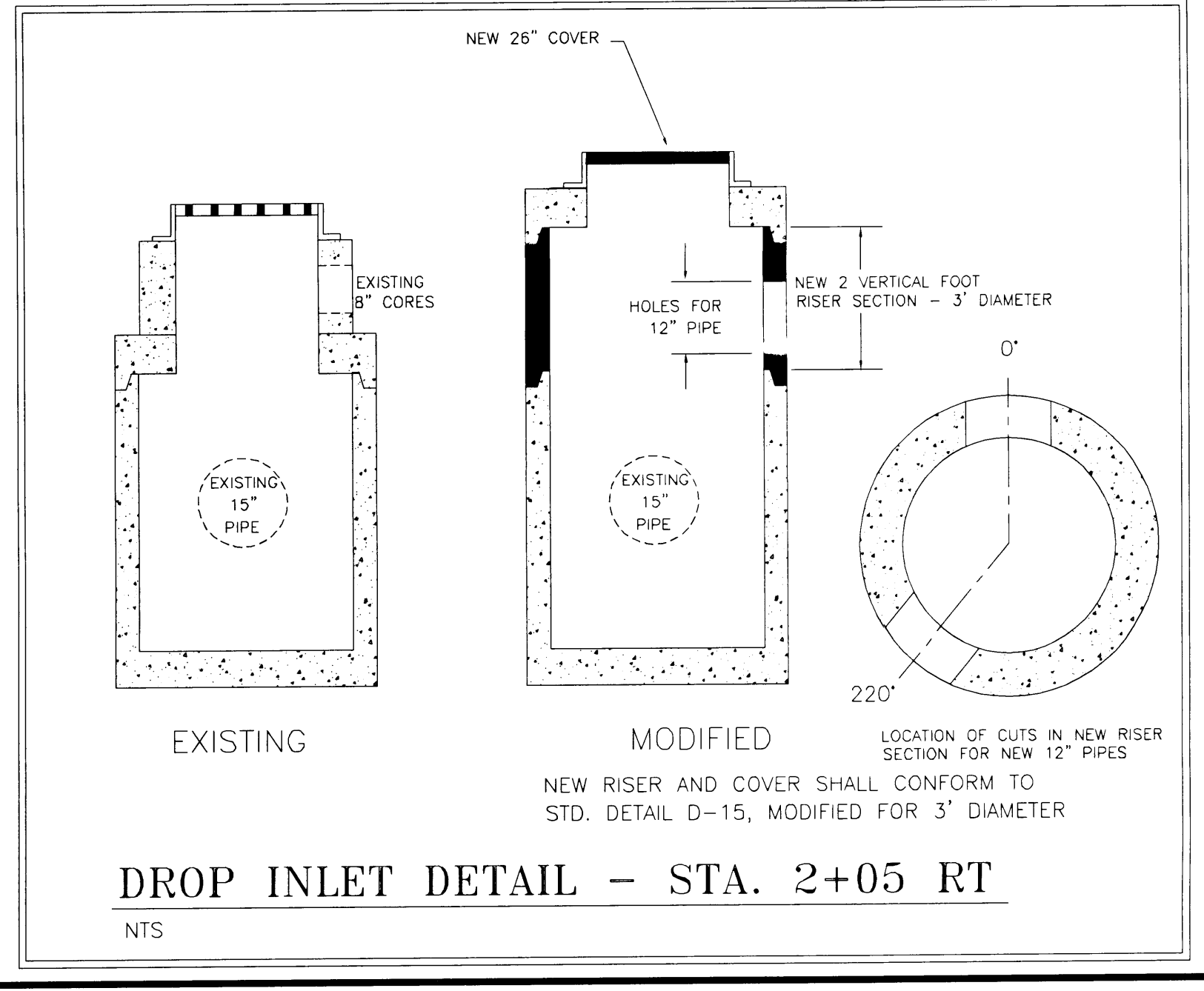
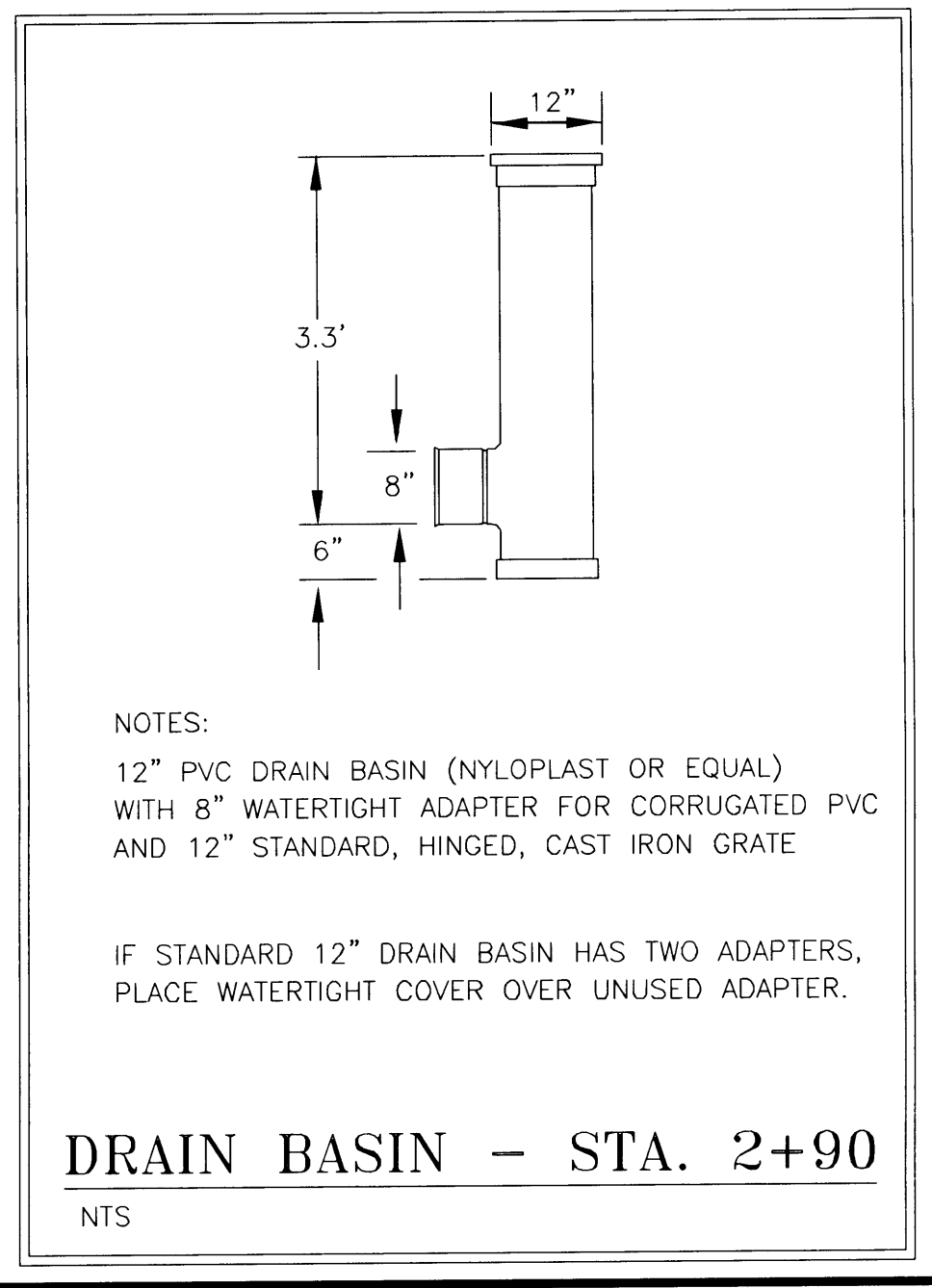


- 1) RESHAPE HOLE AND PATCH AREA BY CUTTING WITH A CONCRETE SAW INTO SQUARE OR RECTANGULAR SHAPE AND CUT SIDE FACES VERTICALLY. RESHAPE DOWNWARD TO SOLID MATERIAL AND AROUND HOLE TO SOUND PAVEMENT.
- 2) BACKFILL TRENCH IN 6" LIFTS AND COMPACT EACH LIFT TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698 STANDARD PROCTOR.
- 3) REMOVE ALL LOOSE MATERIAL AND THOROUGHLY SWEEP THE HOLE AREA CLEAN OF MUD AND STANDING WATER.
- 4) APPLY LIQUID ASPHALT TACK TO VERTICAL FACES IN A UNIFORM MANNER. DO NOT PUDDLE TACK COAT ON BOTTOM OF HOLE.
- 5) FILL TOP OF HOLE WITH TYPE III BITUMINOUS CONCRETE AND COMPACT IN LIFTS 1 1/2" THICK. FINAL UNCOMPACTED LIFT SHOULD BE 1/2" TO 1" ABOVE ADJOINING PAVEMENT SO THAT AFTER COMPACTION THE PATCH IS LEVEL WITH THE ORIGINAL PAVEMENT. EACH LIFT SHOULD BE THOROUGHLY COMPACTED WITH A VIBRATORY PLATE COMPACTOR OR A PORTABLE ROLLER. EXPERIENCE HAS SHOWN THAT 15 TO 20 PASSES WITH A VIBRATORY ROLLER AND MAX. TEMPERATURE ABOVE 250 F (121 C) ARE NECESSARY TO ENSURE GOOD COMPACTION. HAND TAMP SHOULD ONLY BE USED FOR SMALL AREAS (LESS THAN 1 S.F.).
- 6) CLEAN UP AREA. DO NOT LEAVE EXCESS FILL OR EXCAVATED MATERIAL ON THE PAVEMENT.

REPLACEMENT OF EXISTING BITUMINOUS PAVEMENT NTS

**RECORD DRAWINGS**  
THIS RECORD DRAWING HAS BEEN PREPARED BY GRIFFIN INTERNATIONAL, INC. BASED ON BASE PLAN DESIGN DRAWINGS PROVIDED BY LAMOUREUX & DICKINSON, INC. CHANGES MADE TO THE DESIGN PLANS ARE INDICATED. THE INFORMATION PROVIDED REGARDING ANY DEVIATION FROM THE DESIGN PLANS ARE BASED ON RESIDENT ENGINEER NOTES AND MEASUREMENT OF ABOVEGROUND FEATURES.

LEGEND	
	LIMIT OF NEW FILL, TOPSOIL AND SEED.
	PROPERTY LINE
	EASEMENT LINE
	SWALE LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING CURBING
	STORM PIPE & CATCH BASIN
	GAS LINE
	WATER LINE & HYDRANT
	SEWER LINE
	UNDERGROUND TELEPHONE LINE
	UTILITY POLE & OVERHEAD WIRES
	TREES
	LIGHT POLE
	SIGN POST
	FND CONCRETE MONUMENT FOUND
	IPF IRON PIPE FOUND



- WORK TO INCLUDE:**
1. SET NEW 3' DIAMETER PRECAST CONCRETE CATCH BASIN WITH CAST IRON GRATE ONTO EXISTING 18" GMP AT STA. 0+00 (STD. DETAIL D-15, MODIFIED). INSTALL WATERTIGHT RUBBER BOOTS AROUND PIPE AT INLET AND OUTLET.
  2. REGRADE SWALE FROM STA. 1+60 TO 2+80 RIGHT. PLACE EROSION CONTROL MATTING IN REGRADED SWALE. EROSION MATTING SHALL BE STRAW AND SHALL BE STAPLED SUFFICIENTLY TO PREVENT BILLOWING.
  3. RESET TOP PORTION OF CATCH BASIN AT STA. 2+05 RT. RAISE NEW RIM TO ELEV= 396.88 BY ADDING 2 VERTICAL FEET OF 3' DIA. RISER SECTION. REPLACE GRATE WITH 26" DIAMETER SOLID COVER
  4. CONNECT (2) NEW 10' SECTIONS OF 12" GMP WITH METAL END SECTIONS AS SHOWN ON THIS PLAN
  5. ADD 12" PVC DRAIN BASIN (NYLOPLAST OR EQUAL) AT STA. 2+90, 3.5' LT. REGRADE AREA AROUND BASIN TO PROVIDE POSITIVE DRAINAGE
  6. CORE FOR 8" CORRUGATED HDPE INTO CATCH BASIN AT STA. 2+90 RT AT ELEVATION 391.30
  7. INSTALL 14 +/- LF OF 8" HDPE FROM NEW PVC DRAIN BASIN TO CB AT STA. 2+90. OPEN CUT ACROSS 10' PAVED PATH SHALL BE RESORED PER PAVEMENT REPLACEMENT DETAIL ON THIS SHEET.

4/26/02	REVISED PER VTRANS REVIEW	JLC
4/15/02	ADDED DRAINAGE STRUCTURES	JLC
<b>VERMONT AGENCY OF TRANSPORTATION</b>		
WILLISTON NHG 5500 (10)S "TAFT CORNERS" (US ROUTE 2 & VT ROUTE 2A)		
WILLISTON	VERMONT	
<b>REVISED DRAINAGE AROUND 10' WIDE PATH</b>		
<b>LAMOUREUX &amp; DICKINSON Consulting Engineers Inc.</b> 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450		
Engineers-Planners-Surveyors		
design	JLC	
drawn	JLC	
checked	JLC	
scale	1"=20'	
sheet no.		1

JOHN P. CLEARY  
N/F

CLEARY

MOBIL

JOLLEY ASSOCIATES  
N/F

THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT  
1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.

MONITOR WELL  
TBM 389.93

INVENTORY YARD  
(STONE STORAGE)

CONCRETE

SIGN

EXISTING  
PAVED PARKING

PAVED  
DRIVE

FACE OF NEW CONCRETE CURB  
TO BE SET 3.5' FROM EDGE OF  
NEW SIDEWALK

FACE OF NEW CONCRETE CURB  
TO BE SET 22 3/4" FROM EDGE OF  
NEW SIDEWALK

REGRADE GRAVEL AREA  
FOR POSITIVE DRAINAGE

NEW BUTT JOINT (MATCH EXISTING PAVEMENT)

APPROXIMATE LOCATION  
OF CURB-STOP

EXISTING  
PAVED DRIVEWAY

AREA OF PAVEMENT REMOVAL  
AND REPLACEMENT

PAVEMENT OVERLAY /  
REGRADE

385.51 (LOW PT) 386.46 (LOW PT) 386.78 (BOC, 1" REVEAL) 386.81 (LOW PT) 387.13 (LOW PT) 387.28 (EG) 387.81 (LOW PT) 388.33 (LOW PT) 388.54 (BOC, 5" REVEAL) 388.81 (EG) 389.26 (BOC, 7" REVEAL) 389.85 (LOW PT) 389.93 (BOC, 7" REVEAL) 390.47 (EG)

NEW GRASSED ISLAND

NEW GRASSED ISLAND

NEW PAVED DRIVE  
(10' X 20')

NEW CONCRETE CURBING  
WITH TAPERED ENDS

NEW CONCRETE CURBING  
WITH TAPERED ENDS

US ROUTE 2

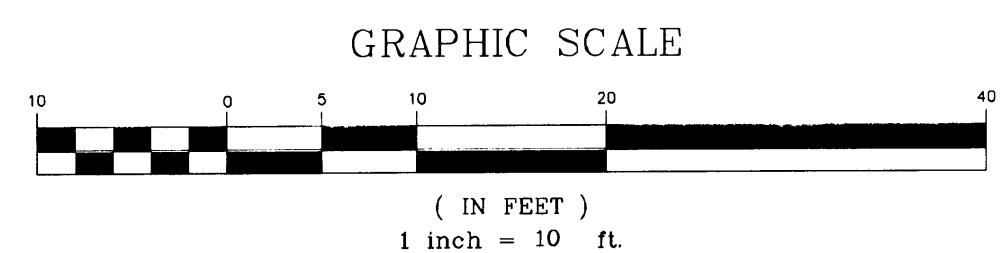
12+00

13+00

N58°40'52"W

**RECORD DRAWINGS**

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**VERMONT AGENCY OF  
TRANSPORTATION**

**WILLISTON NHG 5500 (10)S  
"TAFT CORNERS"  
(US ROUTE 2 & VT ROUTE 2A)**

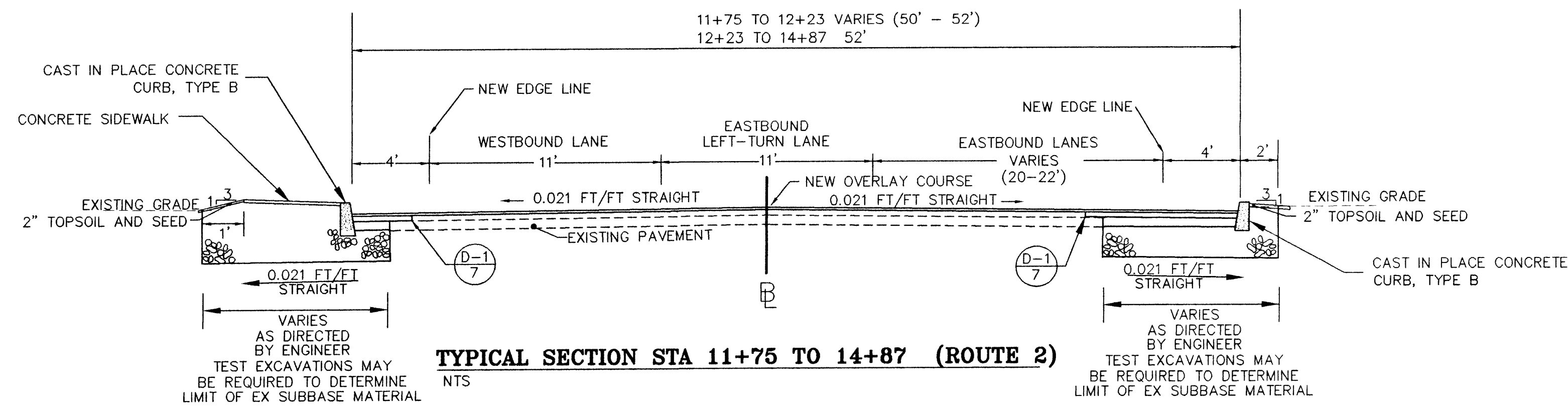
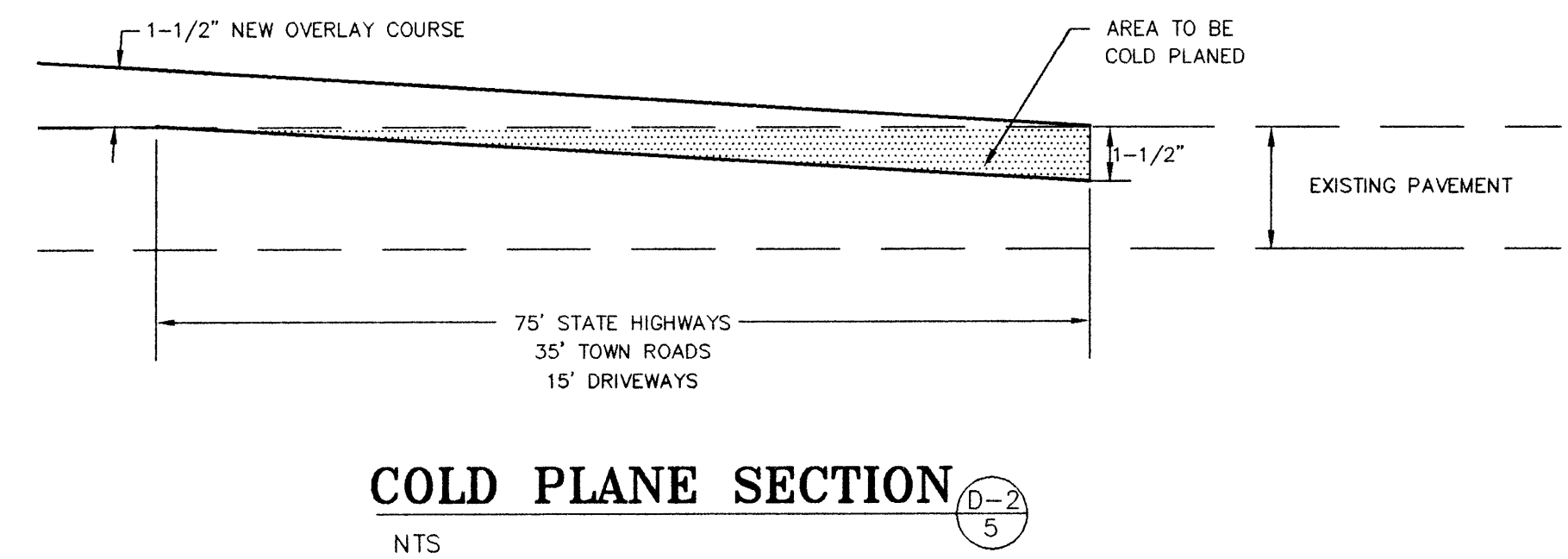
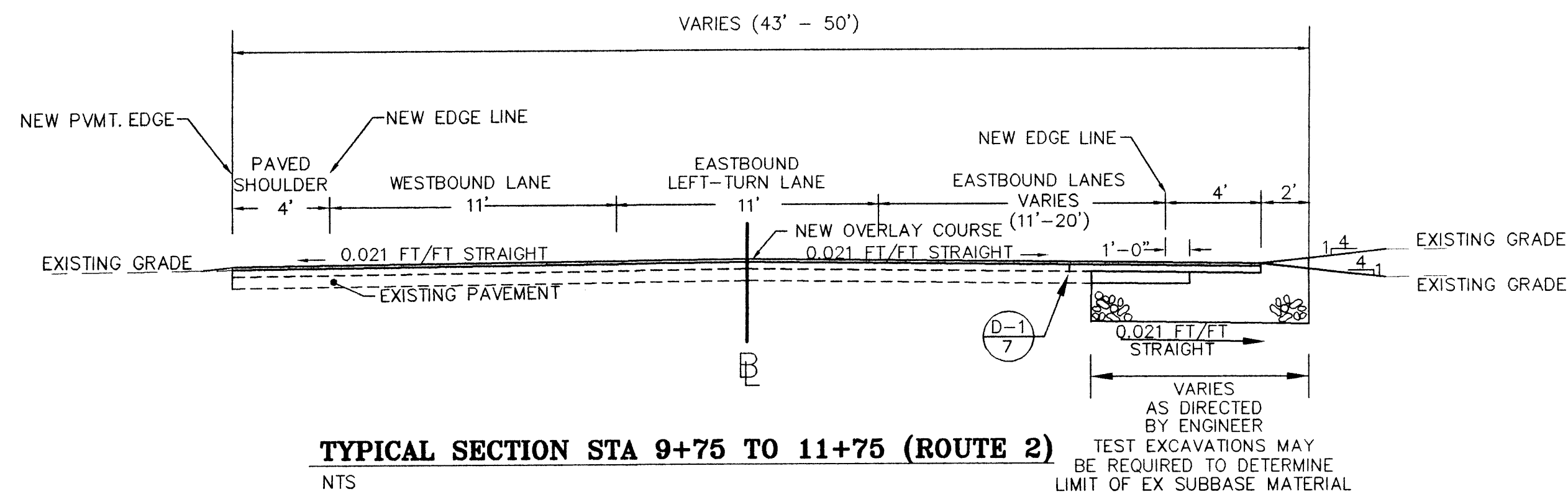
WILLISTON	VERMONT
<b>CLEARY ACCESS REDESIGN</b>	
design RJD	scale 1"=10'
drawn JLC	sht. no. 1
checked RJD	
<b>LAMOUREUX &amp; DICKINSON Consulting Engineers Inc.</b> 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450 <b>Engineers-Planners-Surveyors</b>	









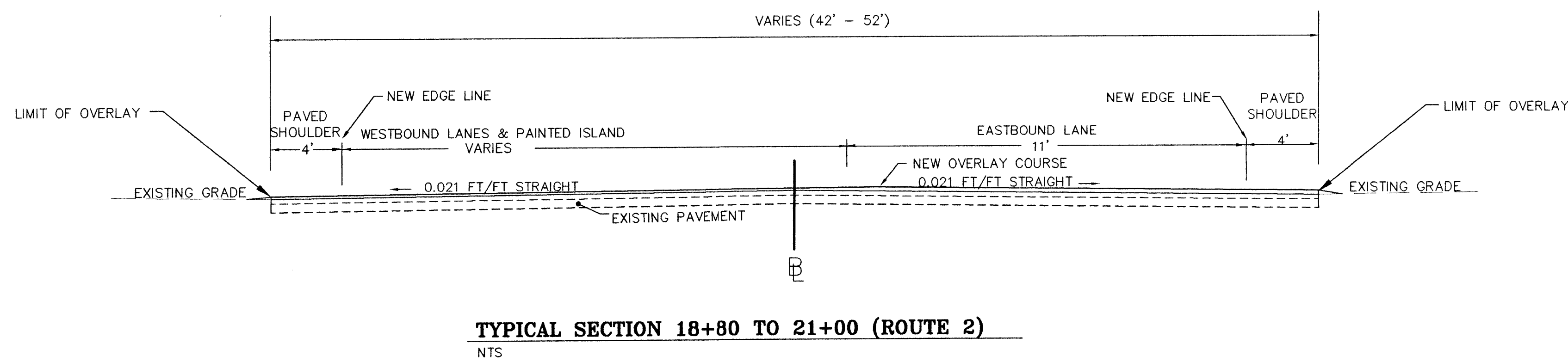
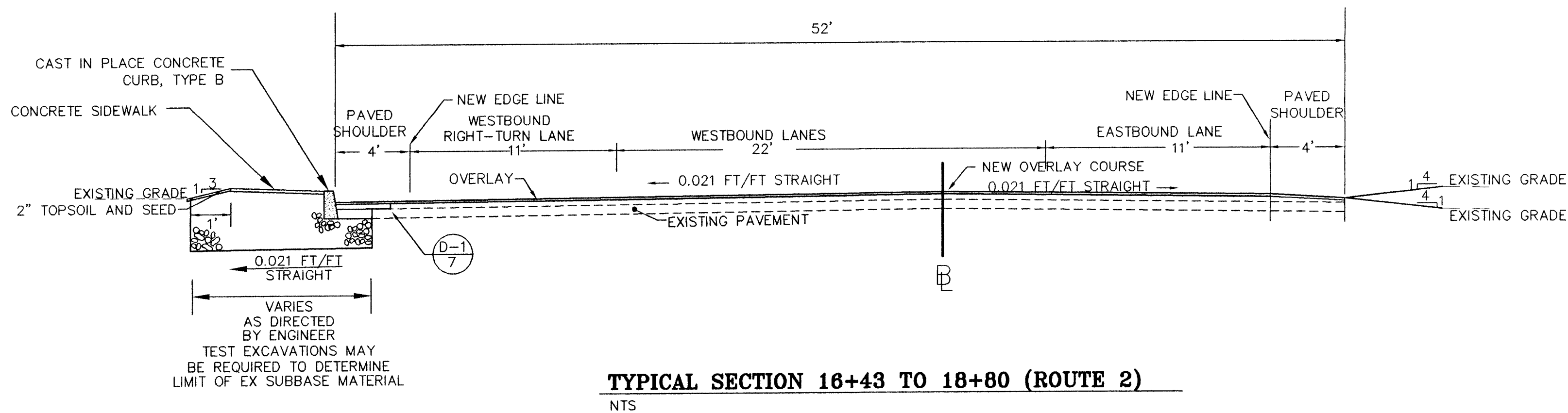


SURFACE/OVERLAY COURSE:	1-1/2" TYPE III (PLACED IN ONE LIFT)
BINDER COURSE :	3" TYPE II (PLACED IN ONE LIFT)
BASE COURSE:	4" TYPE I (PLACED IN ONE LIFT)
SUBBASE MATERIAL:	24" DENSE GRADED CRUSHED STONE (704.06)

- NOTES:
- CONTRACTOR SHALL MATCH EXISTING PAVEMENT THICKNESS IF GREATER THAN 8-1/2" AND AS DIRECTED BY THE ENGINEER, BY INCREASING TOTAL THICKNESS OF BASE COURSE PLACED IN TWO LIFTS INSTEAD OF ONE.
  - PERFORMANCE GRADED BINDER USED FOR THE BITUMINOUS CONCRETE PAVEMENT SHALL BE A PG 70-28

**PAVEMENT SCHEDULE**

NTS



**CONTRACT PLANS**

VERMONT AGENCY OF TRANSPORTATION

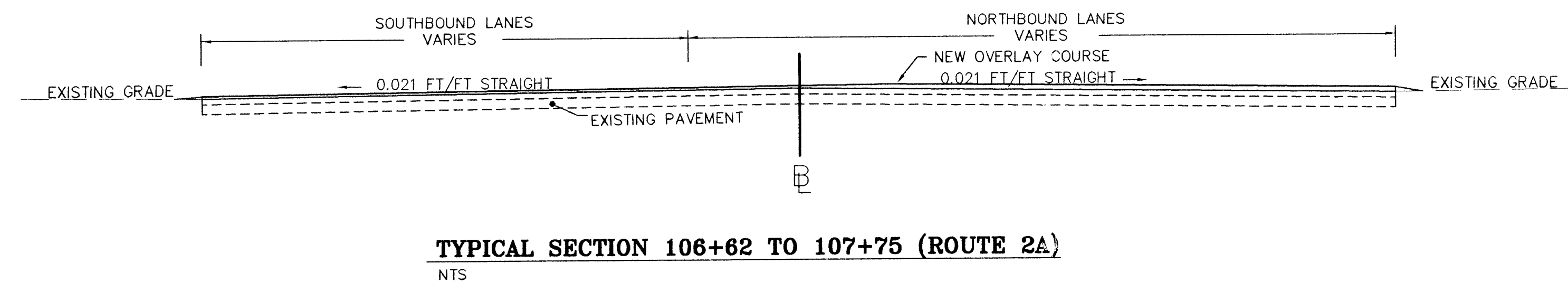
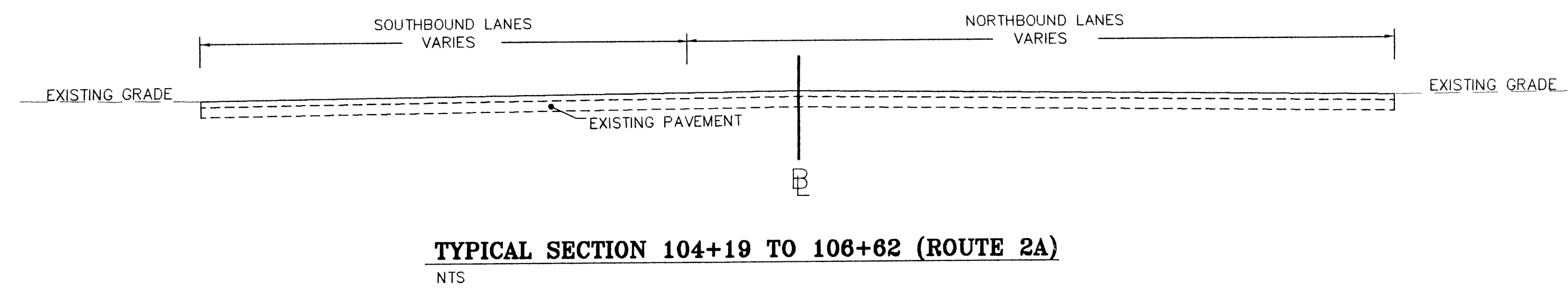
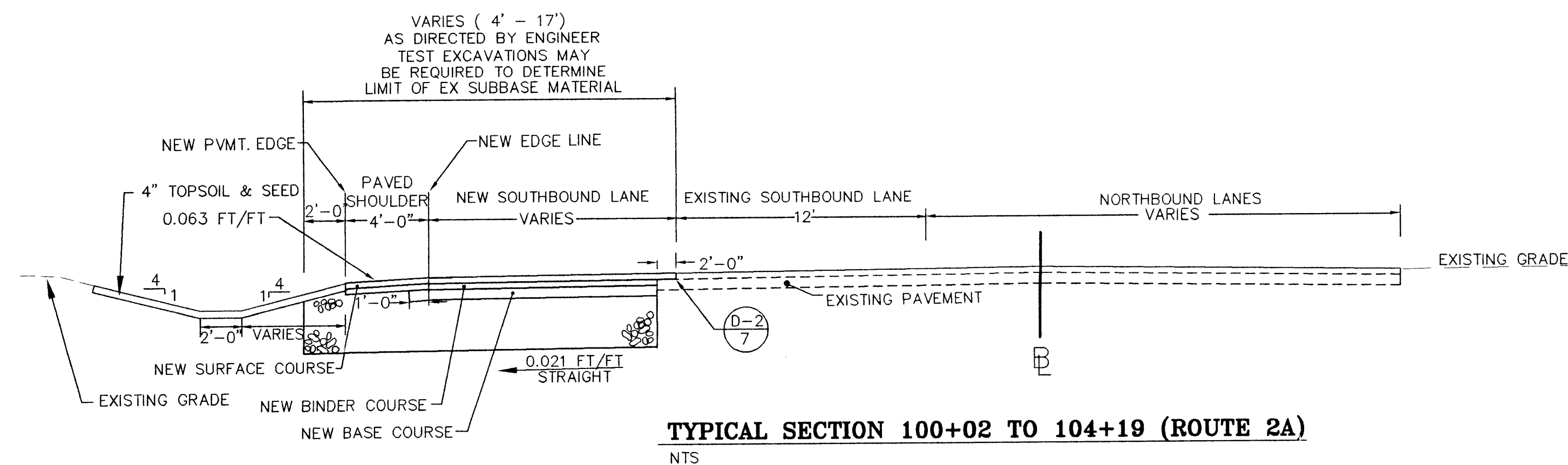
WILLISTON NHG 5500 (10)S "TAFT CORNERS" (US ROUTE 2 & VT ROUTE 2A)

WILLISTON VERMONT

**TYPICAL SECTIONS**

design RJD  
drawn JLC  
checked RJD  
scale NTS  
sht. no. 5

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Essex Junction, VT 05452  
(802) 878-4450  
Engineers-Planners-Surveyors



SURFACE/OVERLAY COURSE:	1-1/2" TYPE III (PLACED IN ONE LIFT)
BINDER COURSE :	3" TYPE II (PLACED IN ONE LIFT)
BASE COURSE:	4" TYPE I (PLACED IN ONE LIFT)
SUBBASE MATERIAL:	24" DENSE GRADED CRUSHED STONE (704.06)

- NOTES:
- CONTRACTOR SHALL MATCH EXISTING PAVEMENT THICKNESS IF GREATER THAN 8-1/2" AND AS DIRECTED BY THE ENGINEER, BY INCREASING TOTAL THICKNESS OF BASE COURSE PLACED IN TWO LIFTS INSTEAD OF ONE.
  - PERFORMANCE GRADED BINDER USED FOR THE BITUMINOUS CONCRETE PAVEMENT SHALL BE A PG 70-28

**PAVEMENT SCHEDULE**  
NTS

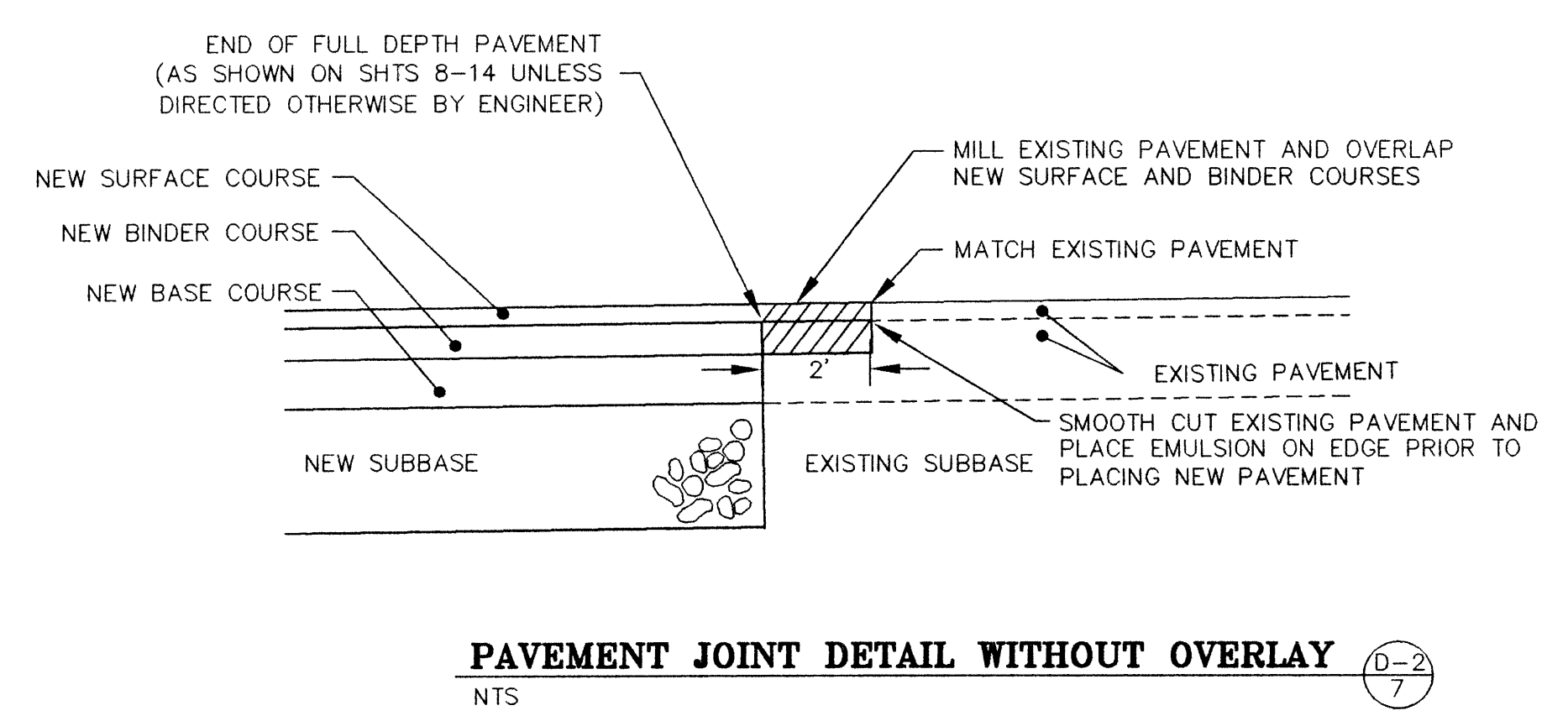
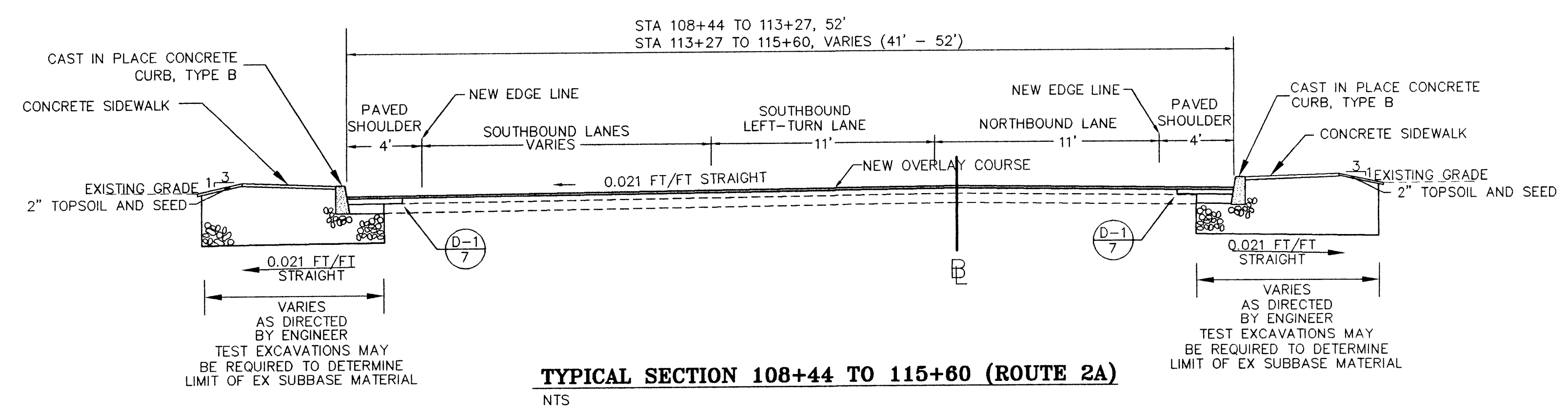
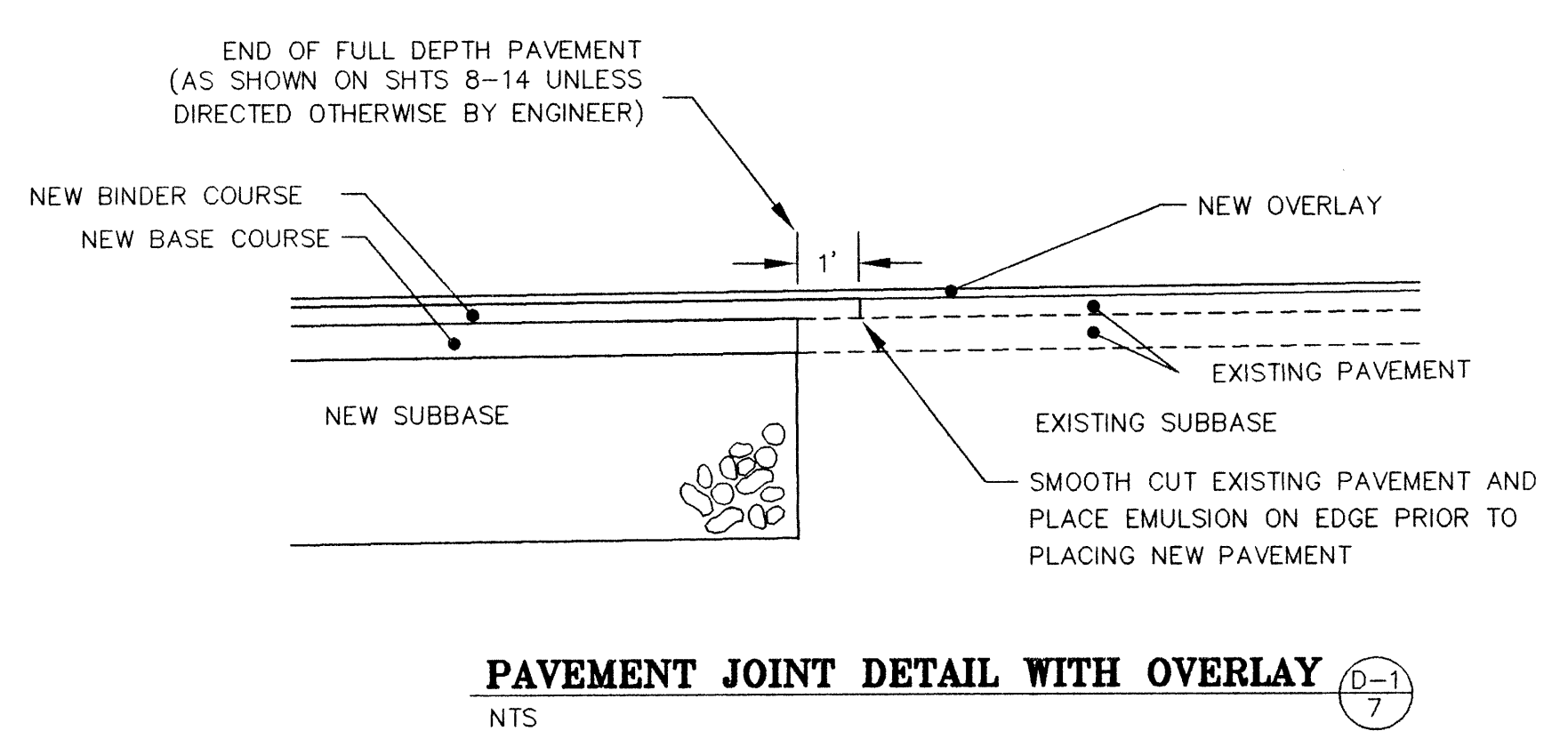
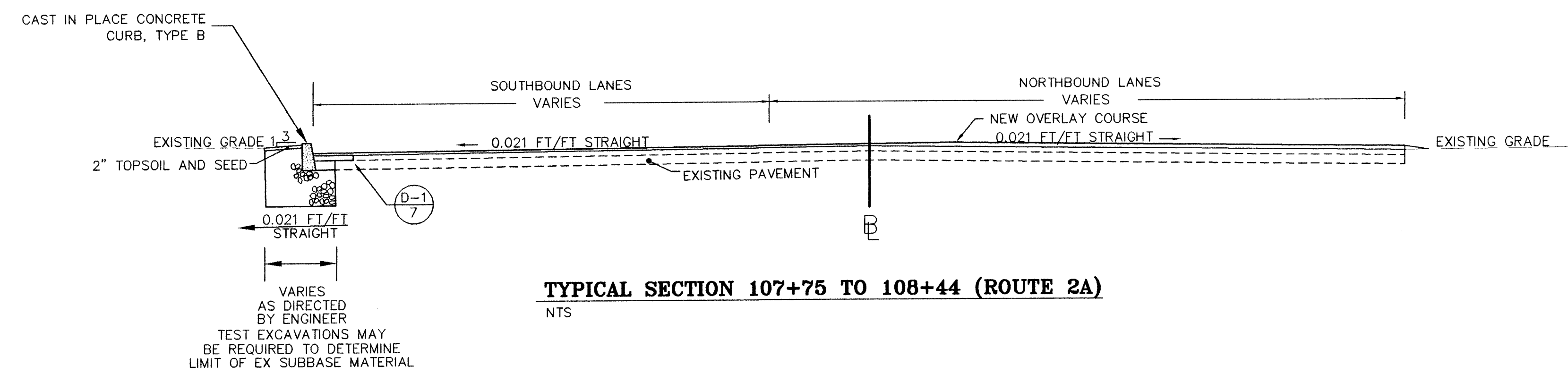
**CONTRACT PLANS**

**VERMONT AGENCY OF  
TRANSPORTATION**

**WILLISTON NHG 5500 (10)S  
"TAFT CORNERS"  
(US ROUTE 2 & VT ROUTE 2A)**

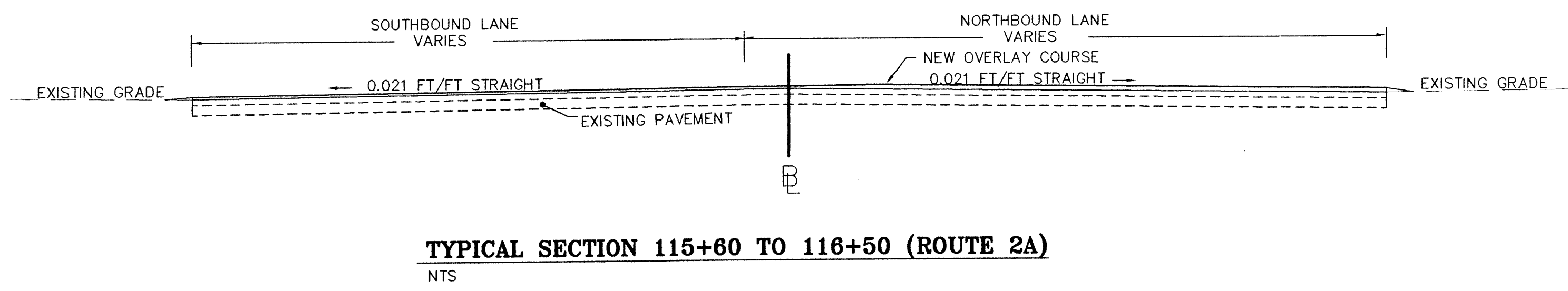
WILLISTON	VERMONT
<b>TYPICAL SECTIONS</b>	desi gn RJD
	drawn JLC
	checked RJD
<b>LAMOUREUX &amp; DICKINSON</b> <b>Consulting Engineers Inc.</b> 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450 <b>Engineers-Planners-Surveyors</b>	scale NTS
	sht. no. <b>6</b>

0002-BP-SP-ED-Asy-Med-Plan-Details-19980601



SURFACE/OVERLAY COURSE:	1-1/2" TYPE III (PLACED IN ONE LIFT)
BINDER COURSE :	3" TYPE II (PLACED IN ONE LIFT)
BASE COURSE:	4" TYPE I (PLACED IN ONE LIFT)
SUBBASE MATERIAL:	24" DENSE GRADED CRUSHED STONE (704.06)

- NOTES:
- CONTRACTOR SHALL MATCH EXISTING PAVEMENT THICKNESS IF GREATER THAN 8-1/2" AND AS DIRECTED BY THE ENGINEER, BY INCREASING TOTAL THICKNESS OF BASE COURSE PLACED IN TWO LIFTS INSTEAD OF ONE.
  - PERFORMANCE GRADED BINDER USED FOR THE BITUMINOUS CONCRETE PAVEMENT SHALL BE A PG 70-28



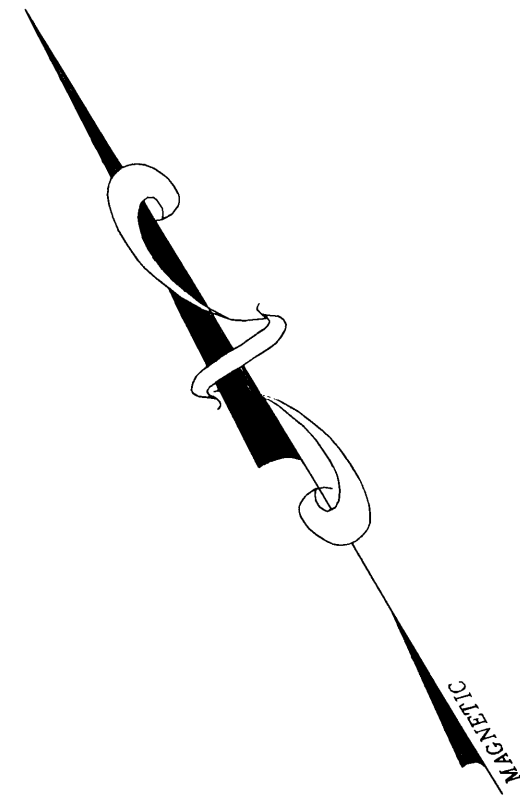
**PAVEMENT SCHEDULE**  
NTS

**CONTRACT PLANS**

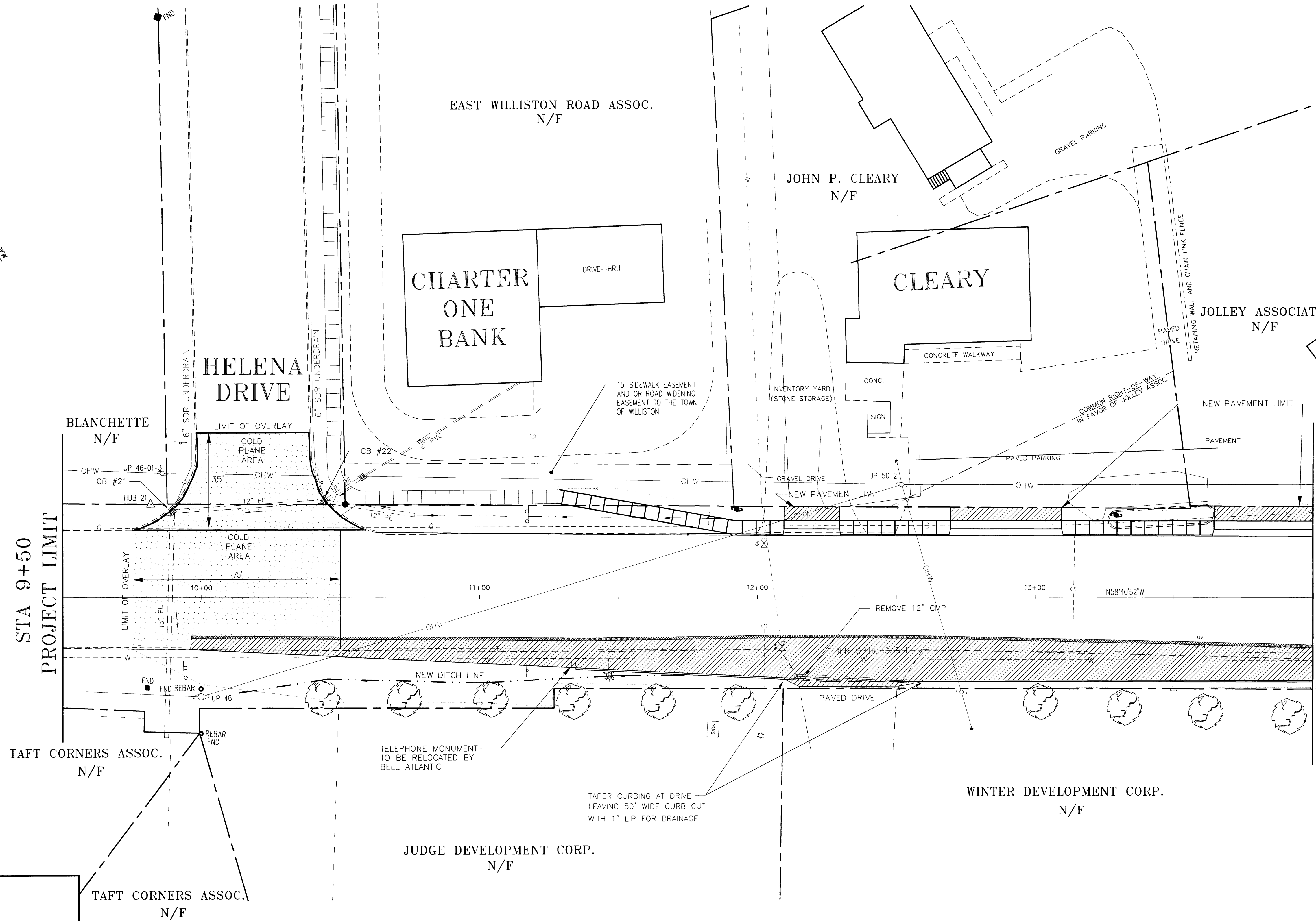
**VERMONT AGENCY OF TRANSPORTATION**

**WILLISTON NHG 5500 (10)S**  
"TAFT CORNERS"  
(US ROUTE 2 & VT ROUTE 2A)

WILLISTON	VERMONT
<b>TYPICAL SECTIONS</b>	
LAMOUREUX & DICKINSON Consulting Engineers Inc. 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450 <b>Engineers-Planners-Surveyors</b>	
desi gn RJD	scale NTS
drawn JLC	sht. no. 7
checked RJD	



THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.



STA 9+50  
PROJECT LIMIT

MATCHLINE - SHEET 9  
STA 14+00

CONSTRUCT DRIVES  
12+19 LT.  
12+33 RT.  
12+90 LT.  
13+85 LT.

PORTLAND CEMENT CONCRETE SIDEWALK (5" THICK)  
11+28 - 12+05 LT.  
12+33 - 12+66 LT.  
13+14 - 13+61 LT.

PORTLAND CEMENT CONCRETE SIDEWALK (8" THICK)  
12+05 - 12+33 LT.  
12+66 - 13+14 LT.  
13+61 - 14+00 LT.

CAST-IN-PLACE CEMENT CONCRETE CURB, TYPE B  
11+75 - 12+09 LT.  
12+29 - 12+70 LT.  
11+35 - 14+00 RT.  
13+10 - 13+65 LT.

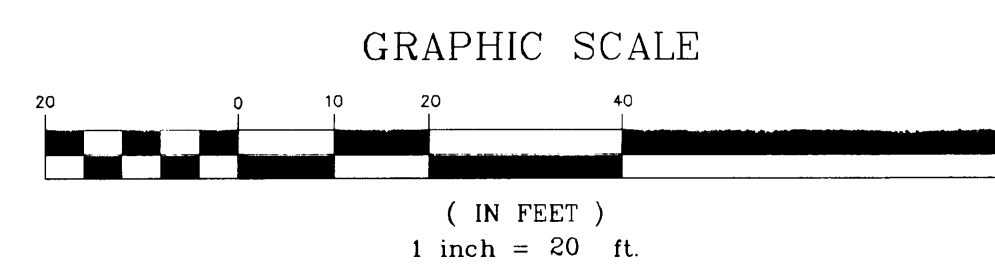
REMOVAL OF EXISTING CURB  
13+26 - 13+64, 24' - 31' LT.

ADJUST ELEVATION OF VALVE BOX  
12+02 LT.  
12+09 RT.  
13+60 RT.

HYDRANT, RELOCATE  
11+47 RT.

CHANGING ELEVATION OF D.I.'S, C.B.'S OR MANHOLES  
9+89 LT.  
10+44 LT.

LEGEND	
	PROPERTY LINE
	EASEMENT LINE
	SWALE LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING CURBING
	LIMIT OF CUT
	LIMIT OF FILL
	GAS LINE W/ GATE VALVE
	WATER LINE W/ HYDRANT & GATE VALVE
	SEWER LINE & MANHOLE
	BURIED TELEPHONE LINE
	STORM PIPE & CATCH BASIN
	UTILITY POLE & OVERHEAD WIRES
	TREES
	LIGHT POLE
	SIGN POST
	CONCRETE MONUMENT FOUND
	IRON PIPE FOUND



NOTE: STA. 10+00 - STA. 15+75 ROADWAY WIDENING MAY INVOLVE EXCAVATION AROUND EXISTING FIBER OPTIC CABLE AND/OR VT GAS MAIN. CONTRACTOR SHALL UTILIZE HAND DIGGING AND PROTECTION IF DEEMED NECESSARY BY RESIDENT ENGINEER & THE BELL ATLANTIC / VT GAS FOREMAN.

**RECORD DRAWINGS**  
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**CONTRACT PLANS**

<b>VERMONT AGENCY OF TRANSPORTATION</b>	
<b>WILLISTON NHG 5500 (10)S "TAFT CORNERS"</b>	
(US ROUTE 2 & VT ROUTE 2A)	
WILLISTON	VERMONT
<b>HORIZONTAL LAYOUT &amp; CONSTRUCTION PLANS</b>	
<b>LAMOUREUX &amp; DICKINSON Consulting Engineers Inc.</b>	
14 Morse Drive Essex Junction, VT 05452 (802) 878-4450	
<b>Engineers-Planners-Surveyors</b>	
design RJD drawn JLC checked RJD	scale 1"=20' sht. no. <b>8</b>

THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.

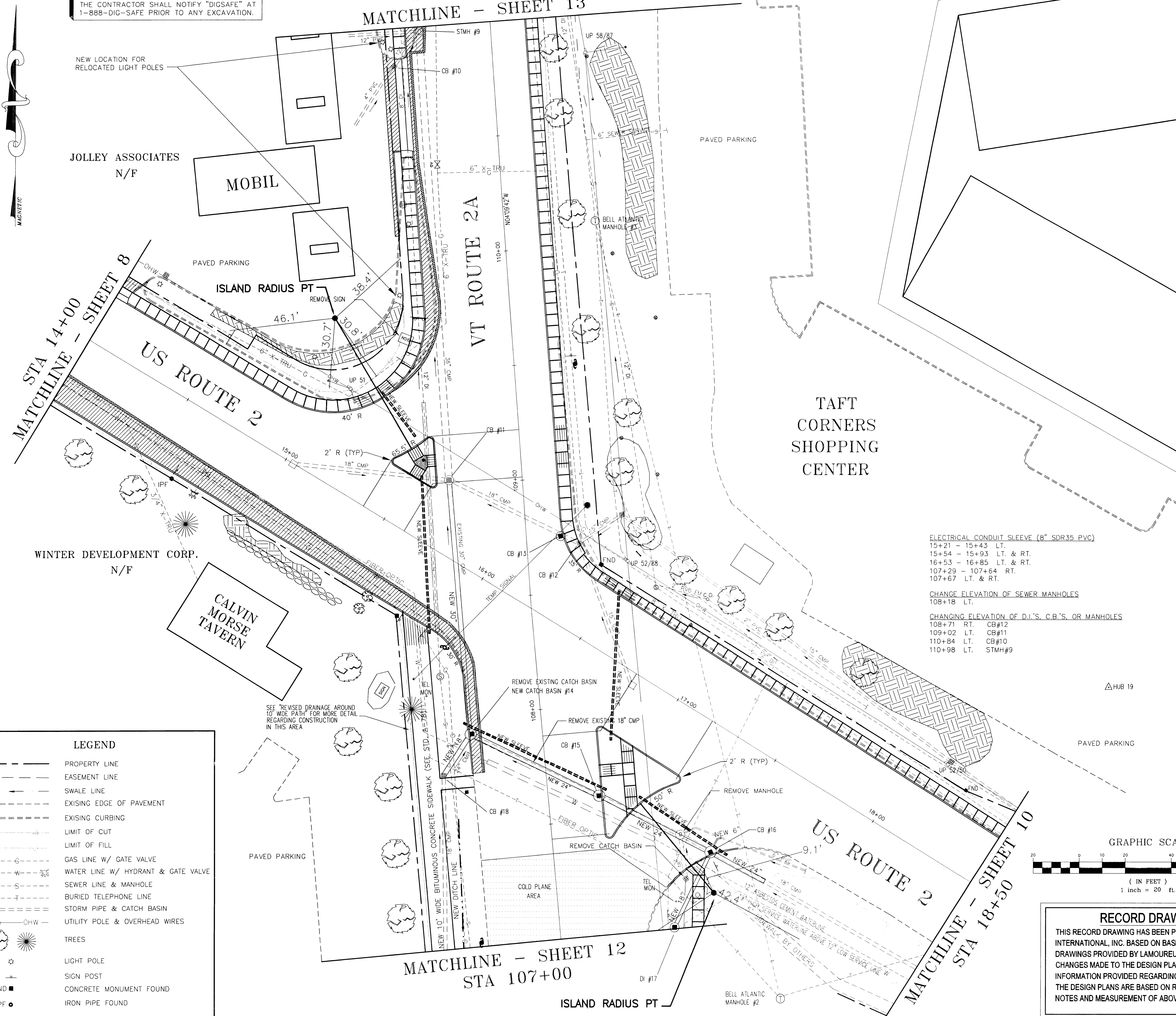
STA 111+00  
MATCHLINE - SHEET 13

- NOTES:
- 1) NEW CONDUIT SLEEVES SHALL BE INSTALLED IN SAME TRENCH AS NEW STORM WHERE POSSIBLE.
  - 2) WHEN BACKFILLING TRENCH CROSSINGS OF ROUTES 2 AND 2A, THE CONTRACTOR SHALL UTILIZE FLOWABLE FILL UP TO 2" ABOVE THE TOP OF THE SLEEVE TO PREVENT FUTURE SETTLING IN TRENCHES.
  - 3) FLOWABLE FILL SHALL BE CONTROLLED LOW STRENGTH MATERIAL (CLSM) MANUFACTURED USING A QUICK SETTING CEMENT, FLYASH, SAND AND WATER MIXTURE, HAVING LOW OR NO ENTRAINED AIR CONTENT AND HAVING A MAXIMUM COMPRESSIVE STRENGTH OF 75 PSI (HAND REMOVABLE).
  - 4) STA. 10+00 - STA. 15+75 ROADWAY WIDENING MAY INVOLVE EXCAVATION AROUND EXISTING FIBER OPTIC CABLE AND/OR VT GAS MAIN. CONTRACTOR SHALL UTILIZE HAND DIGGING AND PROTECTION IF DEEMED NECESSARY BY RESIDENT ENGINEER & BELL ATLANTIC / VT GAS.

- CONSTRUCT DRIVES**  
110+67 LT.
- BITUMINOUS CONCRETE SIDEWALK**  
107+00 - 108+44 LT. (10' WIDE)  
107+71.5 - 107+71.5, 31' - 46' LT. (5' WIDE)
- PORTLAND CEMENT CONCRETE SIDEWALK (5" THICK)**  
14+05 - 110+43 LT.  
110+91 - 111+00 LT.  
107+53 - 107+83 RT.  
107+00 - 107+27 RT.  
18+50 - 111+00 RT.  
15+39 - 15+54 LT.
- PORTLAND CEMENT CONCRETE SIDEWALK (8" THICK)**  
14+00 - 14+05 LT.  
110+43 - 110+91 LT.
- CAST-IN-PLACE CEMENT CONCRETE CURB, TYPE B**  
14+05 - 110+47 LT.  
14+05 - 14+07 LT. (MOBIL MINI MART)  
14+00 RT. - 107+75 LT.  
110+87 - 111+00 LT.  
111+00 RT. - 18+50 LT.  
110+20 - 110+47 LT. (MOBIL MINI MART)  
107+18 - 17+57 RT.
- GRANITE SLOPE EDGING**  
15+32 - 15+62 LT.  
107+41 - 107+90 RT.
- REMOVAL OF EXISTING CURB**  
108+09 - 108+38 LT.  
109+61 RT. - 18+50 LT.  
14+08 - 110+44 LT.  
110+30 - 110+44 LT.  
110+87 - 110+95 LT.
- SIDEWALK RAMPS**  
15+22 LT (TYPE 6)  
15+39 LT (TYPE 1)  
15+48 LT (TYPE 1)  
15+84 RT (TYPE 1)  
16+90 LT (TYPE 6)  
16+90 RT (TYPE 1)
- CHANGING ELEVATION OF D.I.'S, C.B.'S, OR MANHOLES**  
108+71 RT. CB#12  
109+02 LT. CB#11  
110+84 LT. CB#10  
110+98 LT. STM#9
- REMOVE SMALL TREE**  
108+05 LT.  
15+61 RT.
- ADJUST ELEVATION OF VALVE BOX**  
14+74 RT.  
110-40 LT.
- REMOVE AND RESETTING LIGHT POLE**  
110+15 LT.  
110+92 LT.

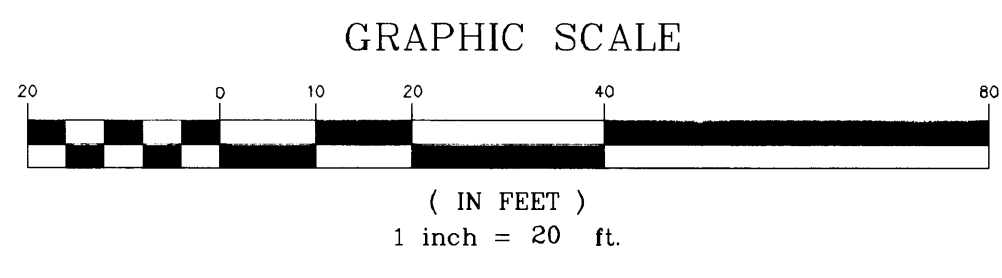
- ELECTRICAL CONDUIT SLEEVE (6" SDR35 PVC)**  
15+21 - 15+43 LT.  
15+54 - 15+93 LT. & RT.  
16+53 - 16+85 LT. & RT.  
107+29 - 107+64 RT.  
107+67 LT. & RT.
- CHANGE ELEVATION OF SEWER MANHOLES**  
108+18 LT.

- CHANGING ELEVATION OF D.I.'S, C.B.'S, OR MANHOLES**  
108+71 RT. CB#12  
109+02 LT. CB#11  
110+84 LT. CB#10  
110+98 LT. STM#9



**LEGEND**

	PROPERTY LINE
	EASEMENT LINE
	SWALE LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING CURBING
	LIMIT OF CUT
	LIMIT OF FILL
	GAS LINE W/ GATE VALVE
	WATER LINE W/ HYDRANT & GATE VALVE
	SEWER LINE & MANHOLE
	BURIED TELEPHONE LINE
	STORM PIPE & CATCH BASIN
	UTILITY POLE & OVERHEAD WIRES
	TREES
	LIGHT POLE
	SIGN POST
	CONCRETE MONUMENT FOUND
	IRON PIPE FOUND



**RECORD DRAWINGS**

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**CONTRACT PLANS**

**VERMONT AGENCY OF TRANSPORTATION**

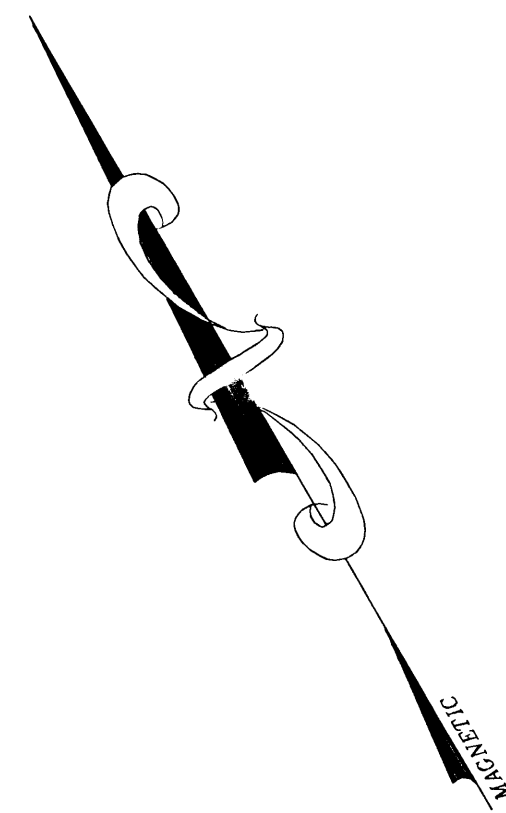
WILLISTON NHG 5500 (10S)  
"TAFT CORNERS"  
(US ROUTE 2 & VT ROUTE 2A)

WILLISTON VERMONT

**HORIZONTAL LAYOUT & CONSTRUCTION PLANS**

**LAMOUREUX & DICKINSON Consulting Engineers Inc.**  
14 Morse Drive  
Essex Junction, VT 05452  
(802) 878-4450  
Engineers-Planners-Surveyors

design	RJD
drawn	JLC
checked	RJD
scale	1"=20'
sht. no.	9



THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.

NOTE: STA 19+15 - 19+90 COLD PLANE AREA MAY BE DELETED AT THE DISCRETION OF THE ENGINEER IF ROUTE 2 RECONSTRUCTION BY MAPLE TREE PLACE IS PLANNED DURING THE SAME CONSTRUCTION SEASON.

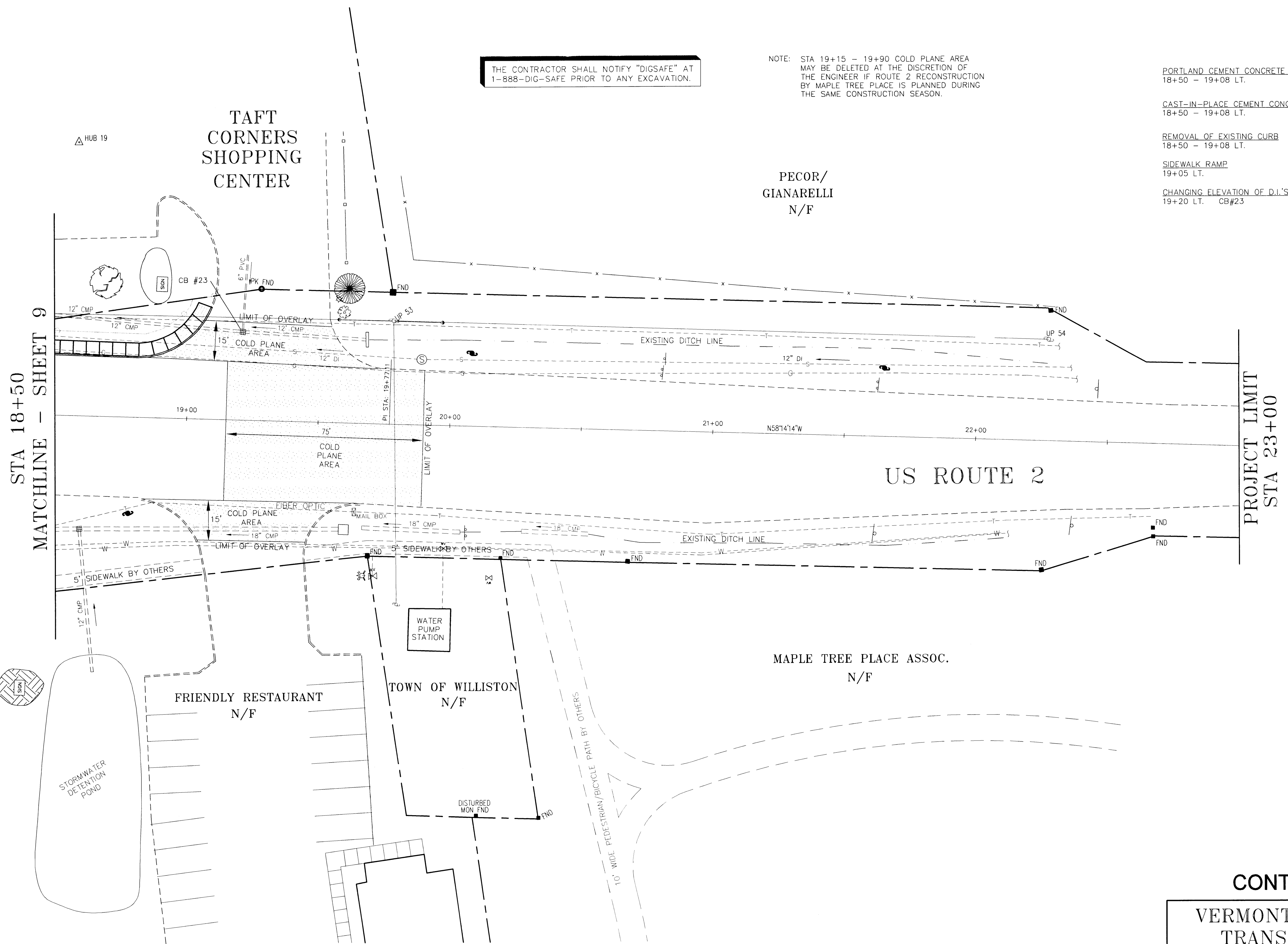
PORTLAND CEMENT CONCRETE SIDEWALK (6" THICK)  
18+50 - 19+08 LT.

CAST-IN-PLACE CEMENT CONCRETE CURB, TYPE B  
18+50 - 19+08 LT.

REMOVAL OF EXISTING CURB  
18+50 - 19+08 LT.

SIDEWALK RAMP  
19+05 LT.

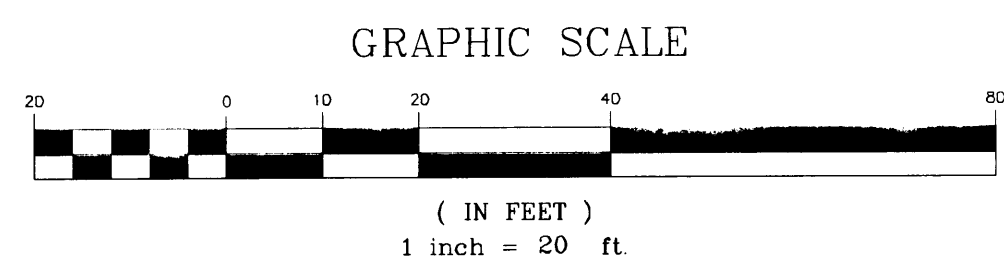
CHANGING ELEVATION OF D.I.'S, C.B.'S, OR MANHOLES  
19+20 LT. CB#23



STA 18+50  
MATCHLINE - SHEET 9

PROJECT LIMIT  
STA 23+00

LEGEND	
	PROPERTY LINE
	EASEMENT LINE
	SWALE LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING CURBING
	LIMIT OF CUT
	LIMIT OF FILL
	GAS LINE W/ GATE VALVE
	WATER LINE W/ HYDRANT & GATE VALVE
	SEWER LINE & MANHOLE
	BURIED TELEPHONE LINE
	STORM PIPE & CATCH BASIN
	UTILITY POLE & OVERHEAD WIRES
	TREES
	LIGHT POLE
	SIGN POST
	CONCRETE MONUMENT FOUND
	IRON PIPE FOUND



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**CONTRACT PLANS**

**VERMONT AGENCY OF TRANSPORTATION**

**WILLISTON NHG 5500 (10)S  
"TAFT CORNERS"  
(US ROUTE 2 & VT ROUTE 2A)**

WILLISTON VERMONT

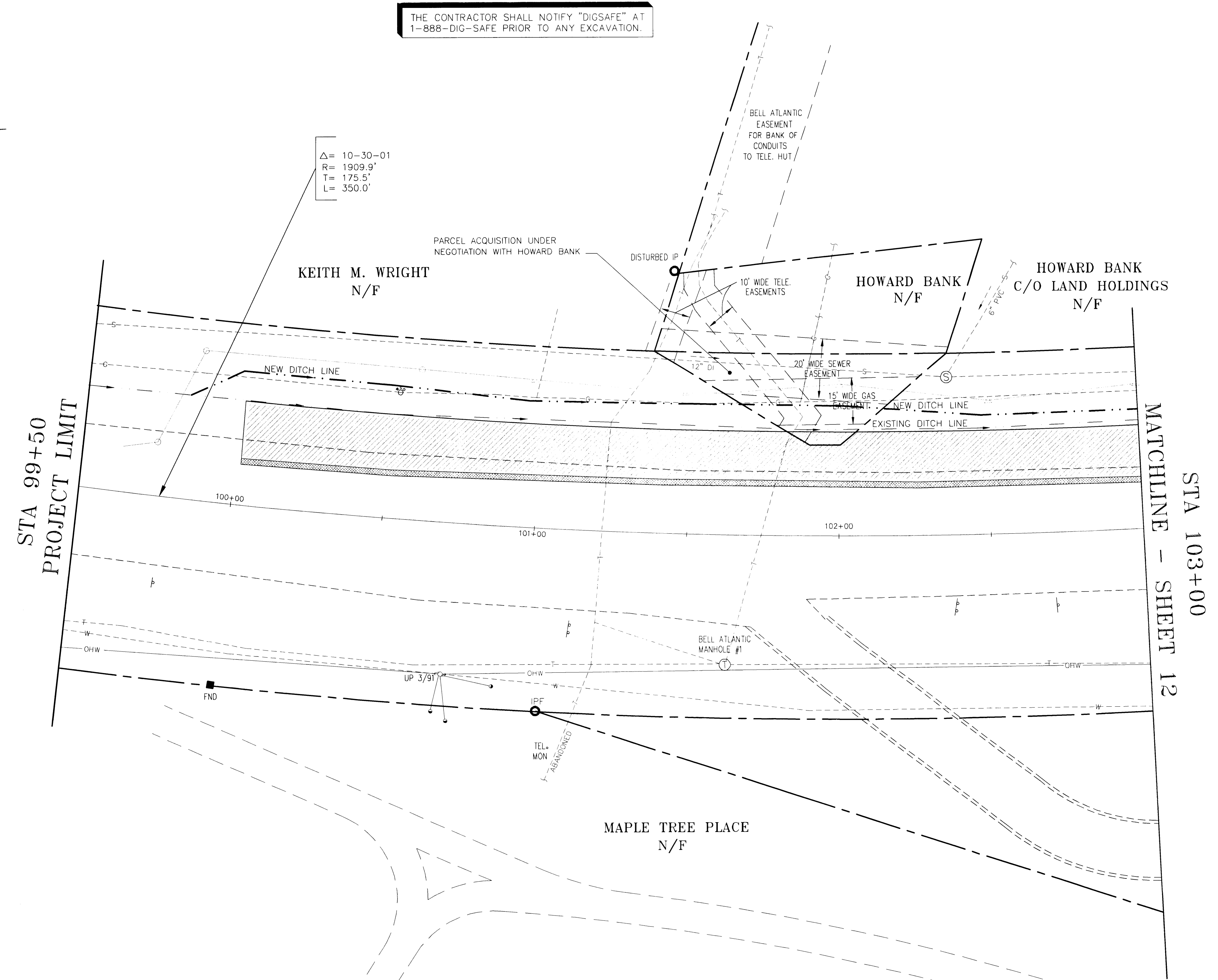
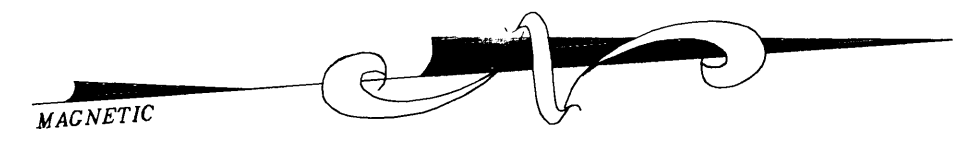
<b>HORIZONTAL LAYOUT &amp; CONSTRUCTION PLANS</b>	design
	drawn
	checked
	RJD
scale	1" = 20'
sht. no.	10

**LAMOUREUX & DICKINSON  
Consulting Engineers Inc.**  
14 Morse Drive  
Essex Junction, VT 05452  
(802) 878-4450  
Engineers-Planners-Surveyors

DATE PLOTTED: 08/11/2011 10:58:11 AM FILE: C:\PROJECTS\105500\105500.DWG PLOTTER: HP DESIGNJET 2450

THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.

NOTE:  
 ALL WORK SOUTH OF STA. 102+50 MAY BE DELETED FROM THE CONTRACT AT THE TIME OF CONTRACT AWARD IF THE NEEDED RIGHT-OF-WAY REQUIRED FROM THE HOWARD BANK HAS NOT YET BEEN OBTAINED.



$\Delta = 10-30-01$   
 $R = 1909.9'$   
 $T = 175.5'$   
 $L = 350.0'$

PARCEL ACQUISITION UNDER NEGOTIATION WITH HOWARD BANK

BELL ATLANTIC EASEMENT FOR BANK OF CONDUITS TO TELE. HUT

HOWARD BANK C/O LAND HOLDINGS N/F

STA 99+50 PROJECT LIMIT

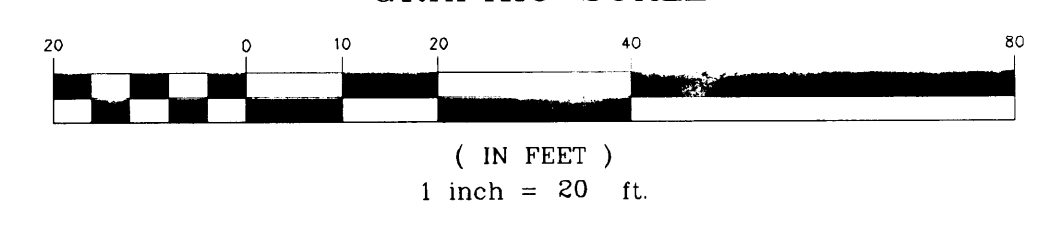
MATCHLINE - SHEET 12 STA 103+00

MAPLE TREE PLACE N/F

**LEGEND**

- — — — — PROPERTY LINE
- - - - - EASEMENT LINE
- - - - - SWALE LINE
- - - - - EXISTING EDGE OF PAVEMENT
- ===== EXISTING CURBING
- - - - - LIMIT OF CUT
- - - - - LIMIT OF FILL
- x--- GAS LINE W/ GATE VALVE
- #--- WATER LINE W/ HYDRANT & GATE VALVE
- S--- SEWER LINE & MANHOLE
- T--- BURIED TELEPHONE LINE
- ===== STORM PIPE & CATCH BASIN
- O--- OHW --- UTILITY POLE & OVERHEAD WIRES
- ☀ --- TREES
- ☆ --- LIGHT POLE
- ⊥ --- SIGN POST
- FND ■ --- CONCRETE MONUMENT FOUND
- IPF ○ --- IRON PIPE FOUND

**GRAPHIC SCALE**



**RECORD DRAWINGS**

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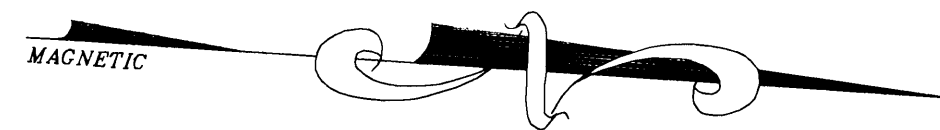
**CONTRACT PLANS**

VERMONT AGENCY OF TRANSPORTATION  
 WILLISTON NHG 5500 (10)S  
 "TAFT CORNERS"  
 (US ROUTE 2 & VT ROUTE 2A)  
 WILLISTON VERMONT

HORIZONTAL LAYOUT & CONSTRUCTION PLANS

LAMOUREUX & DICKINSON Consulting Engineers Inc.  
 14 Morse Drive  
 Essex Junction, VT 05452  
 (802) 878-4450  
 Engineers-Planners-Surveyors

design	RJD
drawn	JLC
checked	RJD
scale	1" = 20'
sht. no.	11



THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.

$\Delta = 6-32-06$   
 $R = 1909.9'$   
 $T = 106.3'$   
 $L = 212.29'$

HOWARD BANK  
C/O LAND HOLDINGS  
N/F

INTERSTATE  
CORPORATE  
CENTER

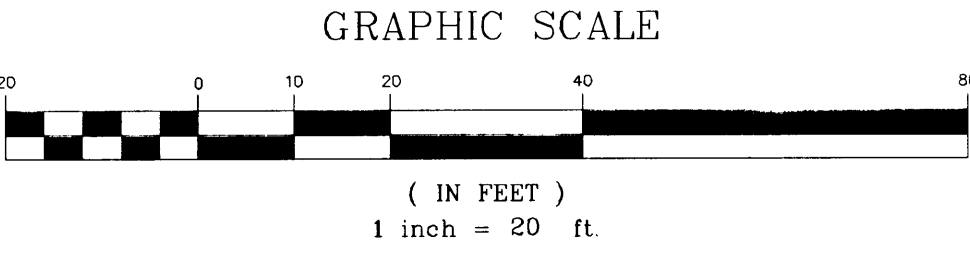
WINTER DEV. CORP.  
N/F

PORTLAND CEMENT CONCRETE SIDEWALK (5" THICK)  
105+12 - 107+00 RT.  
BITUMINOUS CONCRETE SIDEWALK (10' WIDE)  
104+88 - 107+00 LT.  
CHANGING ELEVATION OF D.I.'S, C.B.'S, OR MANHOLES  
106+92 LT. CB#19

STA 103+00  
MATCHLINE - SHEET 11

MATCHLINE - SHEET 9  
STA 107+00

LEGEND	
	PROPERTY LINE
	EASEMENT LINE
	SWALE LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING CURBING
	LIMIT OF CUT
	LIMIT OF FILL
	GAS LINE W/ GATE VALVE
	WATER LINE W/ HYDRANT & GATE VALVE
	SEWER LINE & MANHOLE
	BURIED TELEPHONE LINE
	STORM PIPE & CATCH BASIN
	UTILITY POLE & OVERHEAD WIRES
	TREES
	LIGHT POLE
	SIGN POST
	CONCRETE MONUMENT FOUND
	IRON PIPE FOUND



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**CONTRACT PLANS**

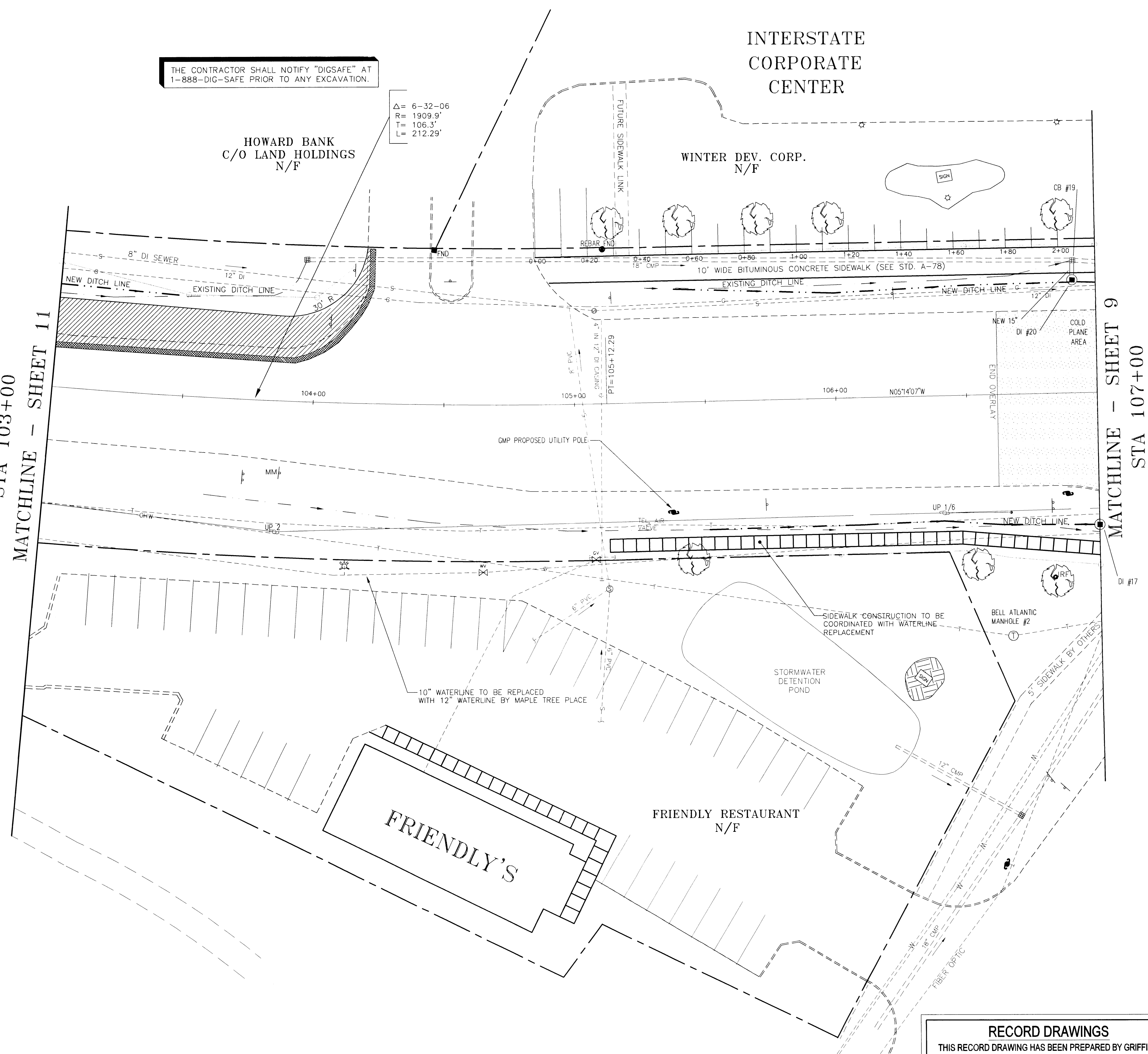
VERMONT AGENCY OF  
TRANSPORTATION

WILLISTON NHG 5500 (10)S  
"TAFT CORNERS"  
(US ROUTE 2 & VT ROUTE 2A)

WILLISTON VERMONT

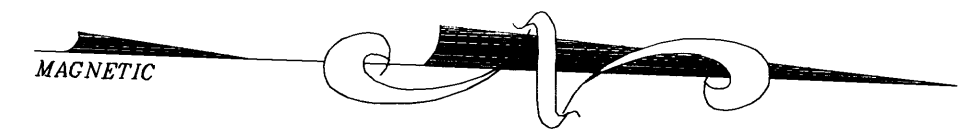
HORIZONTAL LAYOUT & CONSTRUCTION PLANS	design RJD
	drawn JLC
	checked RJD
	scale 1"=20'
	sht. no. 12

LAMOUREUX & DICKINSON  
Consulting Engineers Inc.  
14 Morse Drive  
Essex Junction, VT 05452  
(802) 878-4450  
Engineers-Planners-Surveyors



THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.

NOTE: STA. 110+88 - STA. 115+55 ROADWAY WIDENING MAY INVOLVE EXCAVATION AROUND EXISTING WATERLINES AND/OR VT GAS MAINS. CONTRACTOR SHALL UTILIZE HAND DIGGING AND PROTECTION IF DEEMED NECESSARY BY RESIDENT ENGINEER & THE TOWN OF WILLISTON / VT GAS FOREMAN.



EAST WILLISTON ROAD ASSOC.  
N/F

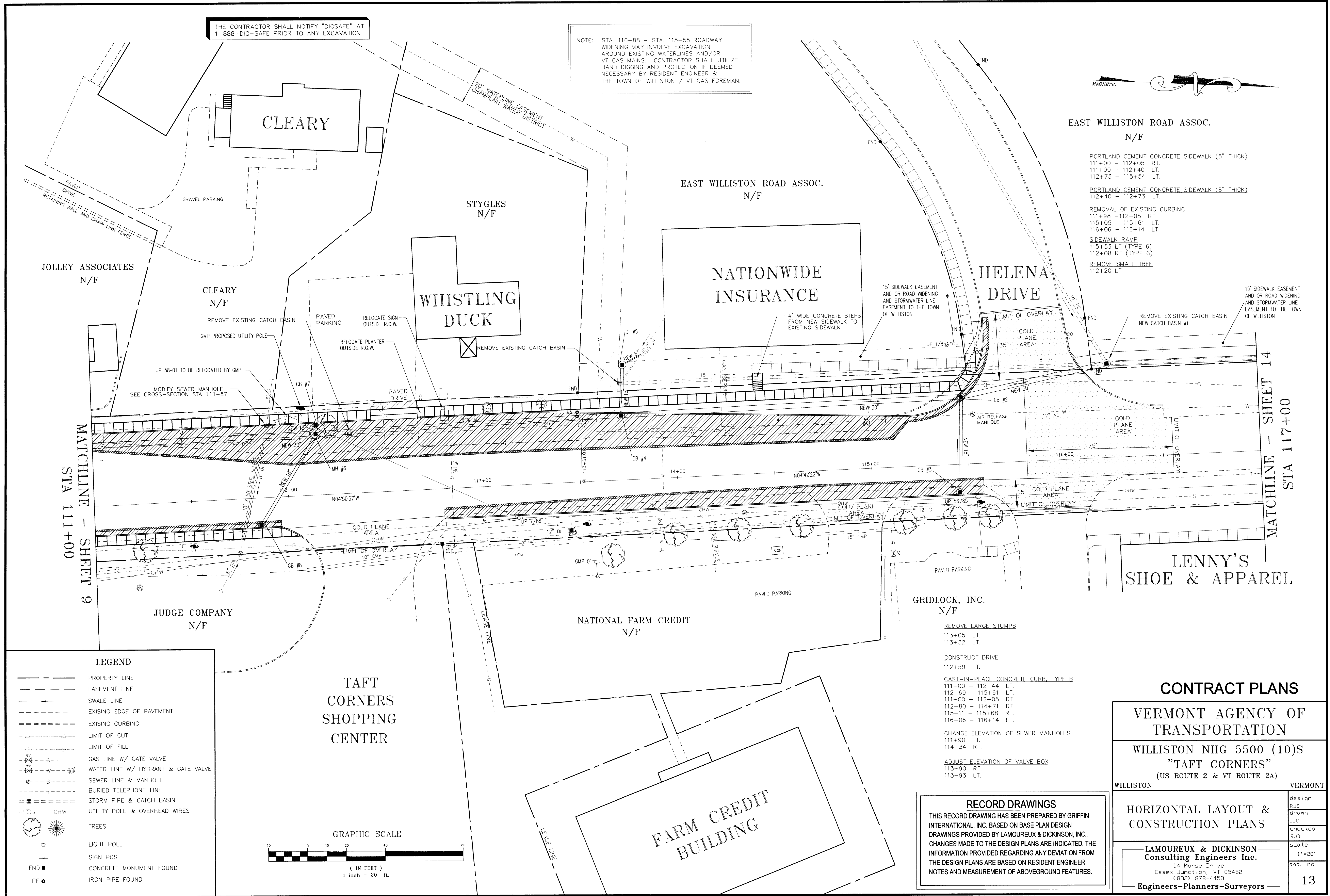
PORTLAND CEMENT CONCRETE SIDEWALK (5" THICK)  
111+00 - 112+05 RT.  
111+00 - 112+40 LT.  
112+73 - 115+54 LT.

PORTLAND CEMENT CONCRETE SIDEWALK (8" THICK)  
112+40 - 112+73 LT.

REMOVAL OF EXISTING CURBING  
111+98 - 112+05 RT.  
115+05 - 115+61 LT.  
116+06 - 116+14 LT

SIDEWALK RAMP  
115+53 LT (TYPE 6)  
112+08 RT (TYPE 6)

REMOVE SMALL TREE  
112+20 LT



JOLLEY ASSOCIATES  
N/F

CLEARY  
N/F

STYGLES  
N/F

EAST WILLISTON ROAD ASSOC.  
N/F

NATIONWIDE  
INSURANCE

WHISTLING  
DUCK

HELENA  
DRIVE

LENNY'S  
SHOE & APPAREL

JUDGE COMPANY  
N/F

NATIONAL FARM CREDIT  
N/F

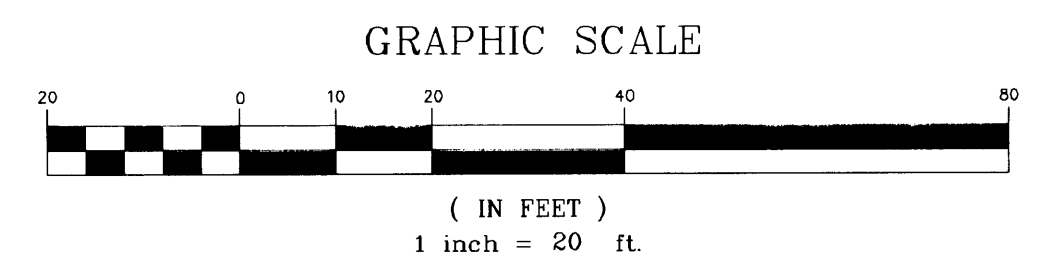
GRIDLOCK, INC.  
N/F

TAFT  
CORNERS  
SHOPPING  
CENTER

FARM CREDIT  
BUILDING

**LEGEND**

- PROPERTY LINE
- - - EASEMENT LINE
- - - SWALE LINE
- - - EXISTING EDGE OF PAVEMENT
- - - EXISTING CURBING
- - - LIMIT OF CUT
- - - LIMIT OF FILL
- - - GAS LINE W/ GATE VALVE
- - - WATER LINE W/ HYDRANT & GATE VALVE
- - - SEWER LINE & MANHOLE
- - - BURIED TELEPHONE LINE
- - - STORM PIPE & CATCH BASIN
- - - UTILITY POLE & OVERHEAD WIRES
- TREES
- ☆ LIGHT POLE
- SIGN POST
- CONCRETE MONUMENT FOUND
- IRON PIPE FOUND



- REMOVE LARGE STUMPS  
113+05 LT.  
113+32 LT.
- CONSTRUCT DRIVE  
112+59 LT.
- CAST-IN-PLACE CONCRETE CURB, TYPE B  
111+00 - 112+44 LT.  
112+69 - 115+61 LT.  
111+00 - 112+05 RT.  
112+80 - 114+71 RT.  
115+11 - 115+68 RT.  
116+06 - 116+14 LT.
- CHANGE ELEVATION OF SEWER MANHOLES  
111+90 LT.  
114+34 RT.
- ADJUST ELEVATION OF VALVE BOX  
113+90 RT.  
113+93 LT.

**RECORD DRAWINGS**

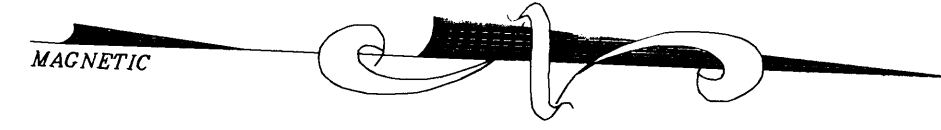
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**CONTRACT PLANS**

VERMONT AGENCY OF  
TRANSPORTATION

WILLISTON NHG 5500 (10)S  
"TAFT CORNERS"  
(US ROUTE 2 & VT ROUTE 2A)

WILLISTON	VERMONT
HORIZONTAL LAYOUT & CONSTRUCTION PLANS	design RJD drawn JLC checked RJD
LAMOUREUX & DICKINSON Consulting Engineers Inc. 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450 Engineers-Planners-Surveyors	scale 1" = 20' sht. no. 13



THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT  
1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.

15' SIDEWALK EASEMENT  
AND OR ROAD WIDENING  
AND STORMWATER LINE  
EASEMENT TO THE TOWN  
OF WILLISTON

REMOVE EXISTING 18" PE

NEW END SECTION  
DAYLIGHT ELEV. = 374.11'

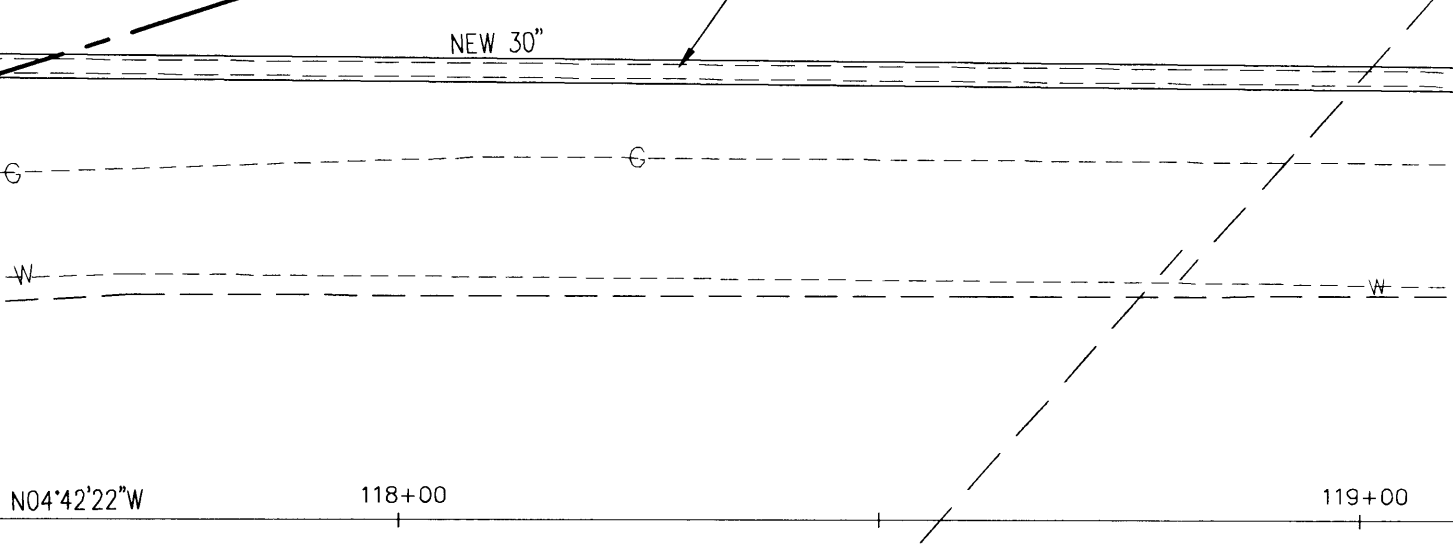
MATCHLINE - SHEET 13  
STA 117+00

PROJECT LIMIT  
STA 119+50

LENNY'S  
SHOE & APPAREL

ESPRESSO

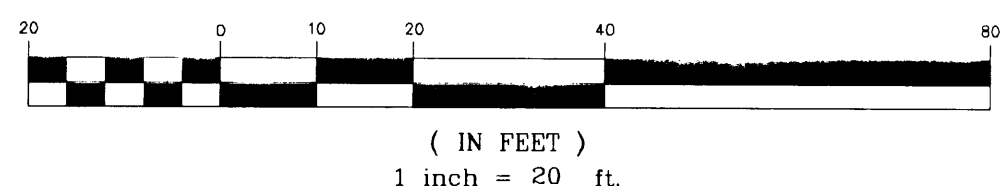
VELCO  
150'



**LEGEND**

- PROPERTY LINE
- EASEMENT LINE
- SWALE LINE
- EXISTING EDGE OF PAVEMENT
- EXISTING CURBING
- LIMIT OF CUT
- LIMIT OF FILL
- GAS LINE W/ GATE VALVE
- WATER LINE W/ HYDRANT & GATE VALVE
- SEWER LINE & MANHOLE
- BURIED TELEPHONE LINE
- STORM PIPE & CATCH BASIN
- UTILITY POLE & OVERHEAD WIRES
- TREES
- LIGHT POLE
- SIGN POST
- CONCRETE MONUMENT FOUND
- IRON PIPE FOUND

**GRAPHIC SCALE**



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**CONTRACT PLANS**

VERMONT AGENCY OF  
TRANSPORTATION

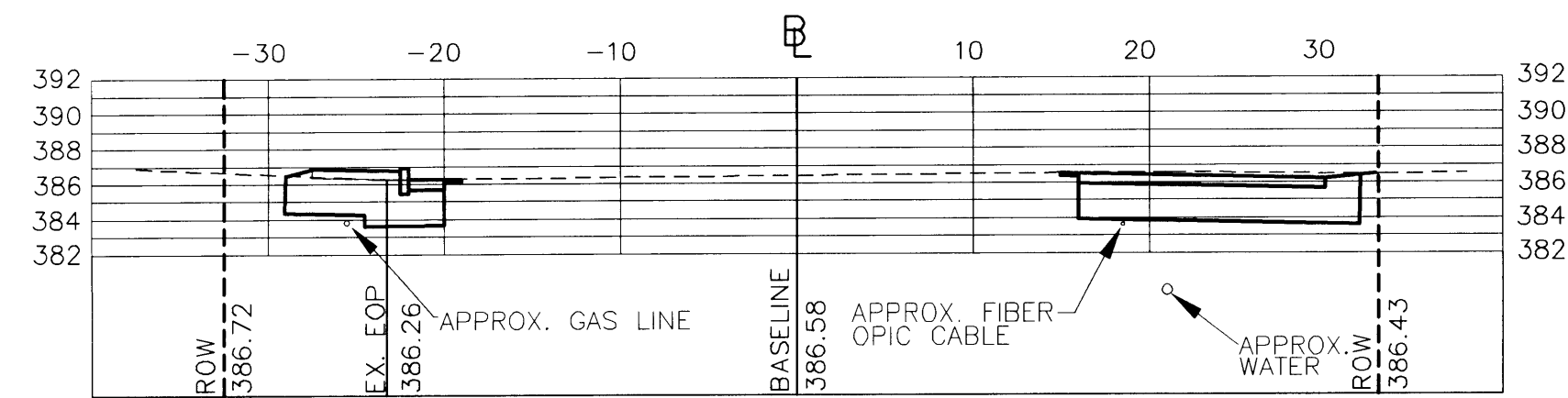
WILLISTON NHG 5500 (10)S  
"TAFT CORNERS"  
(US ROUTE 2 & VT ROUTE 2A)

WILLISTON VERMONT

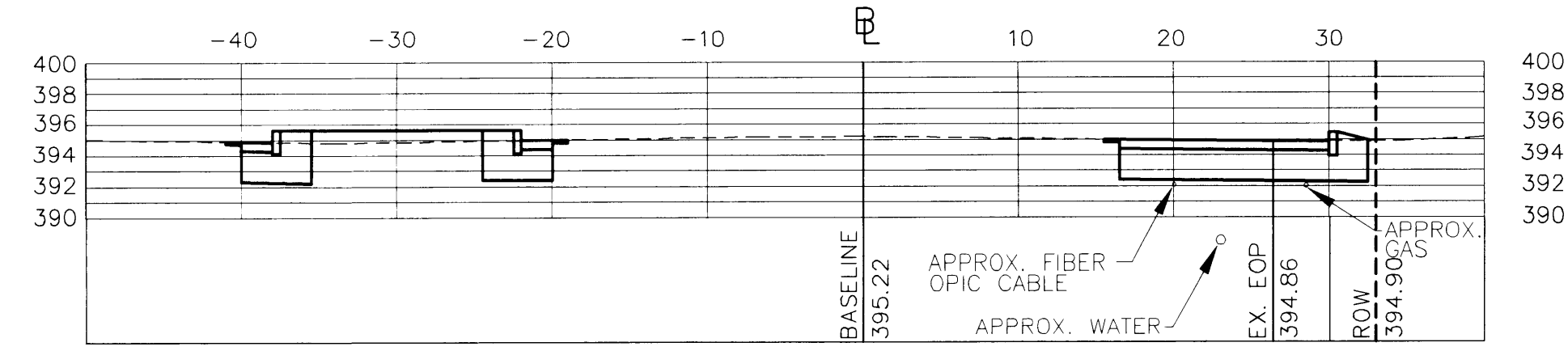
HORIZONTAL LAYOUT &  
CONSTRUCTION PLANS

LAMOUREUX & DICKINSON  
Consulting Engineers Inc.  
14 Morse Drive  
Essex Junction, VT 05452  
(802) 878-4450  
Engineers-Planners-Surveyors

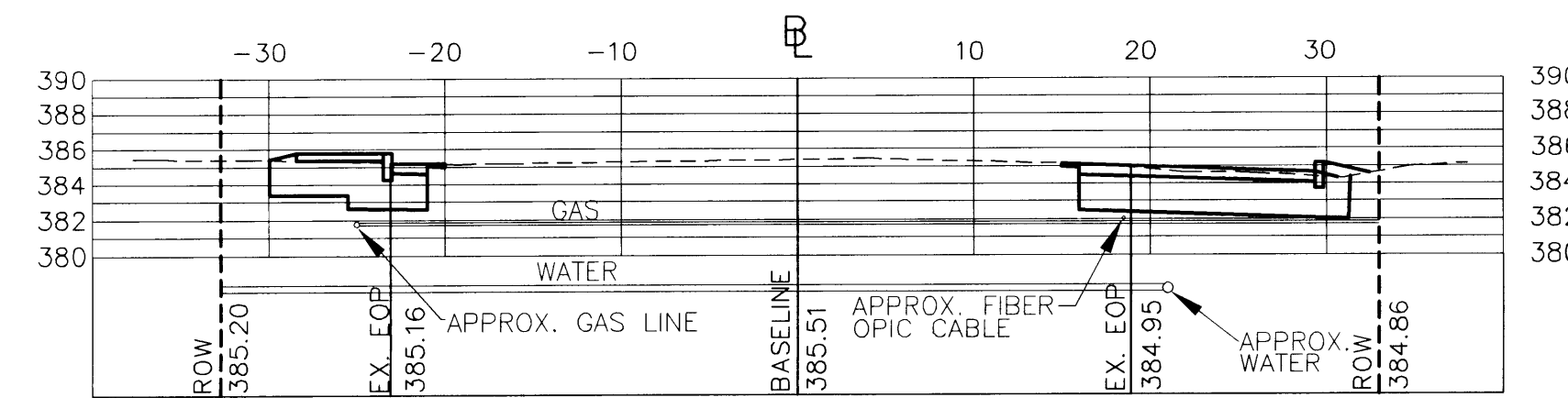
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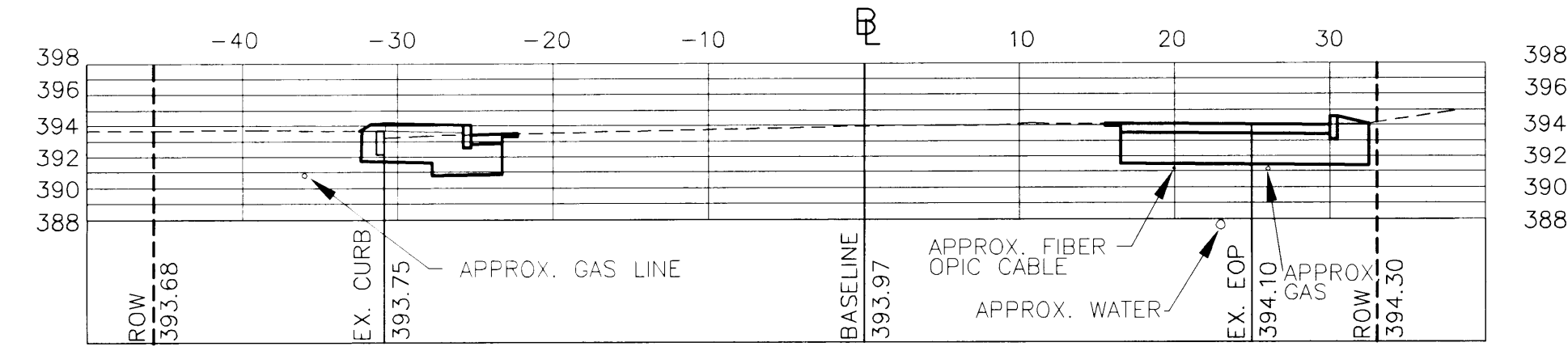
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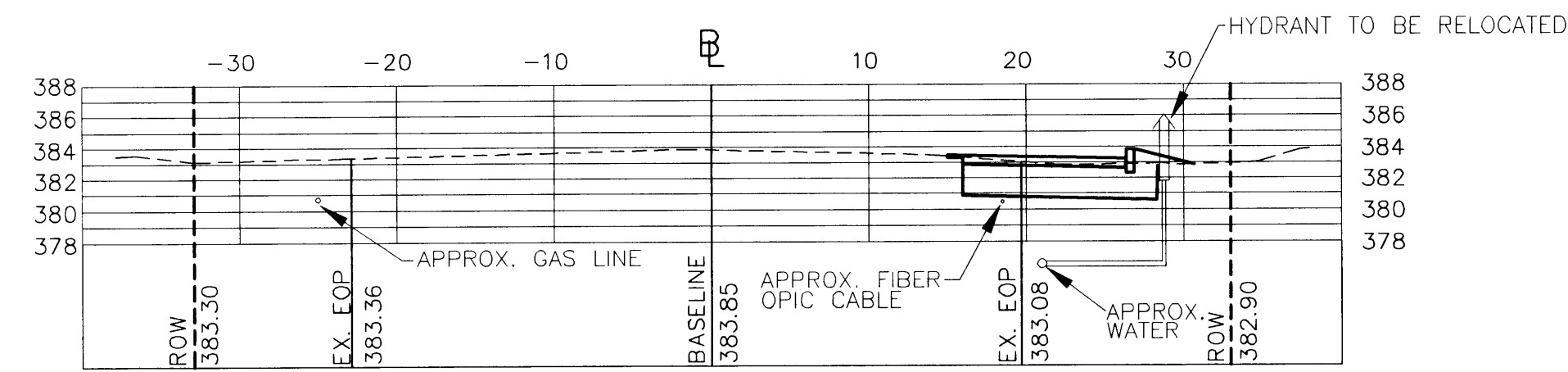
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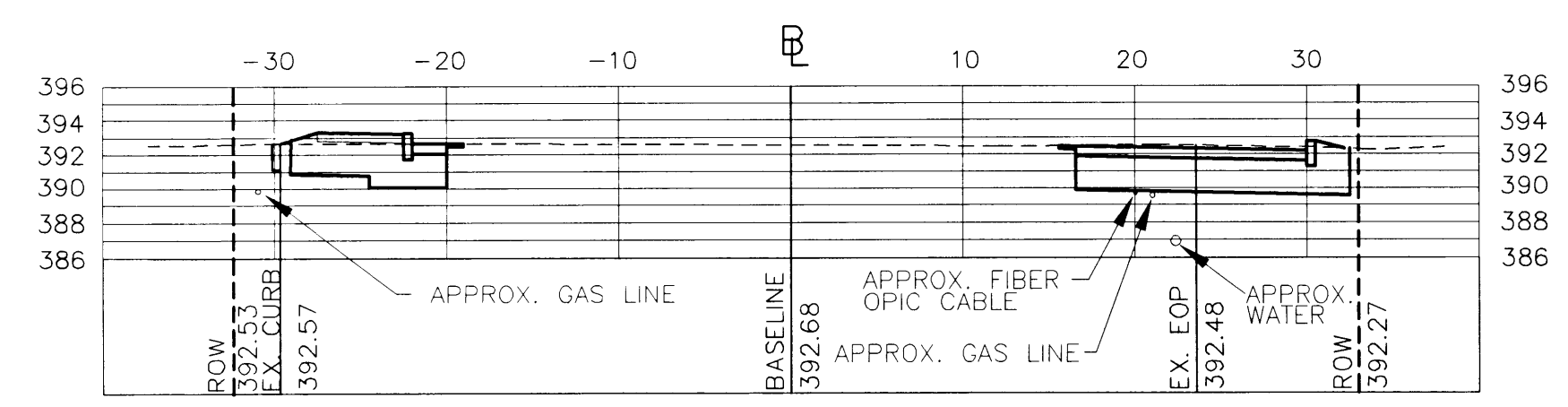
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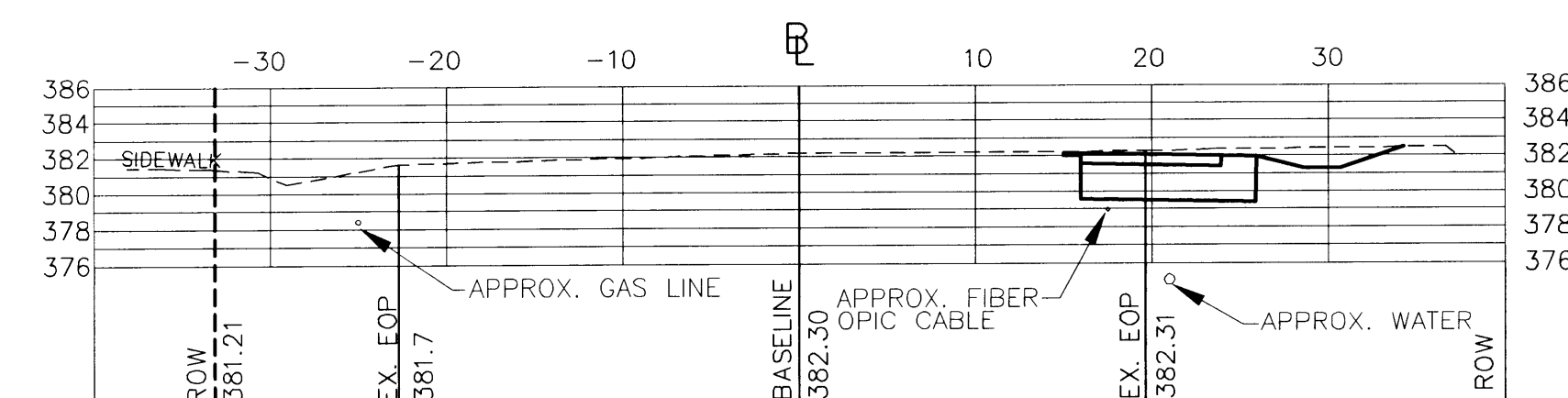
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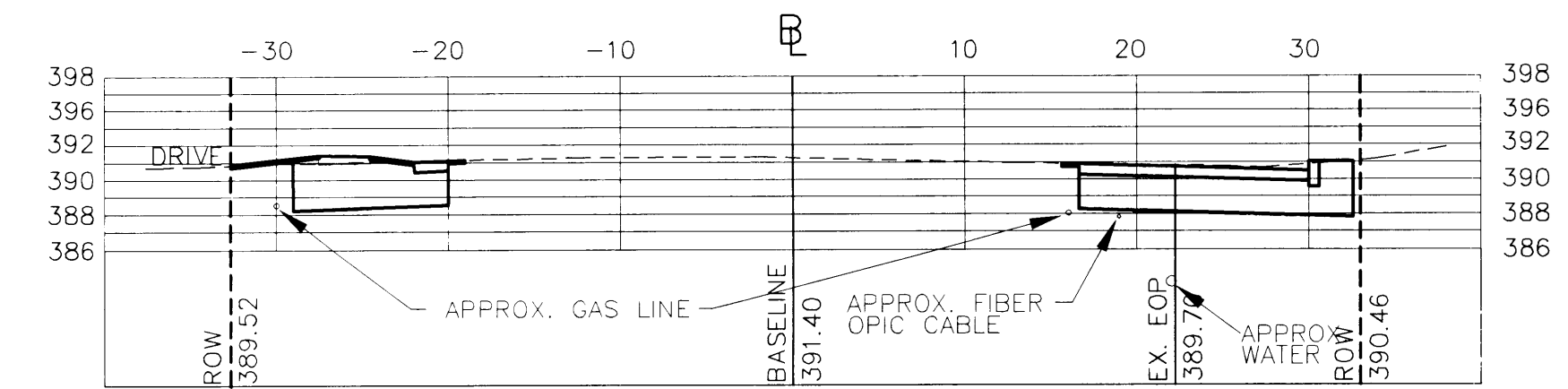
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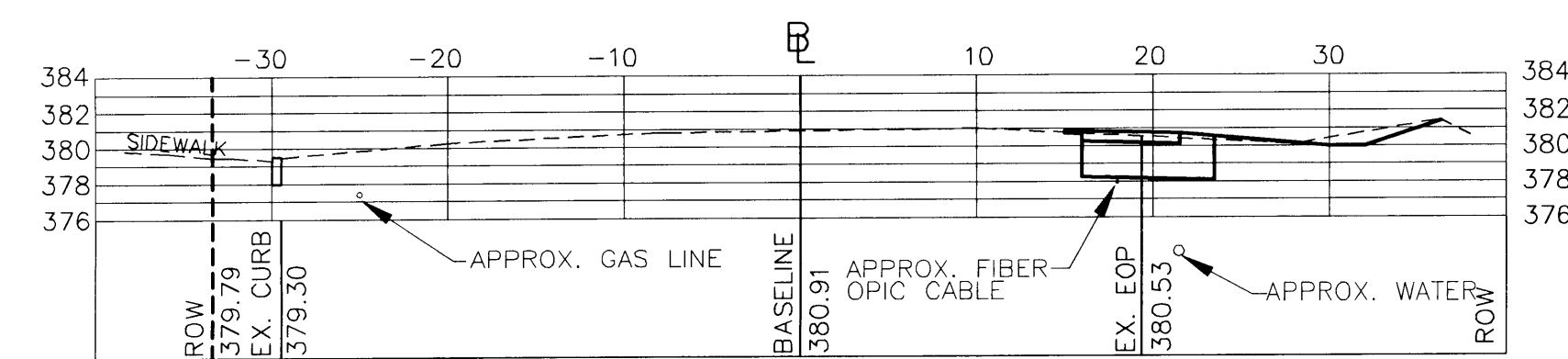
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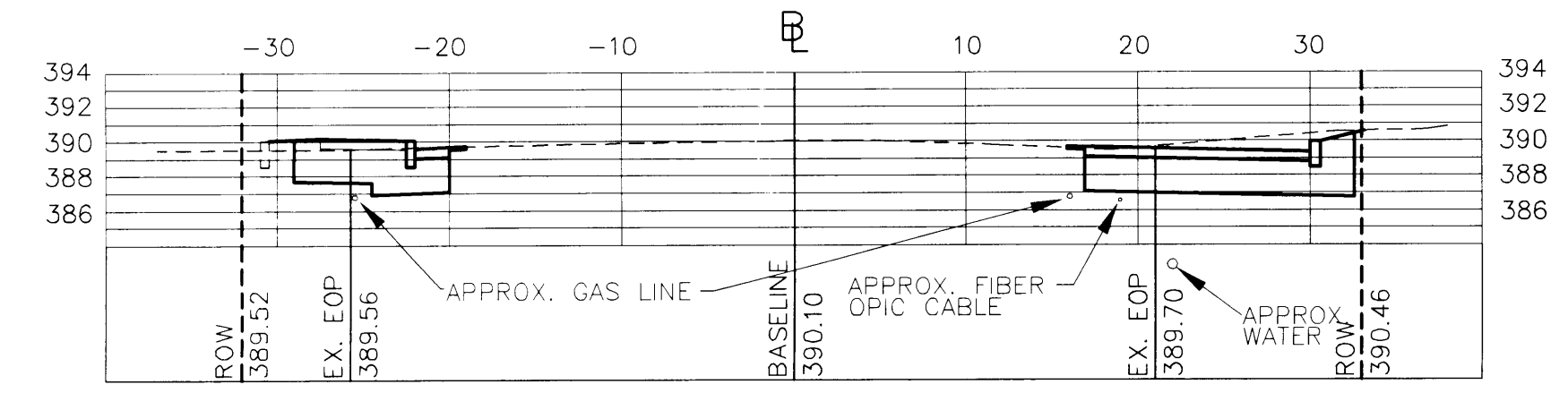
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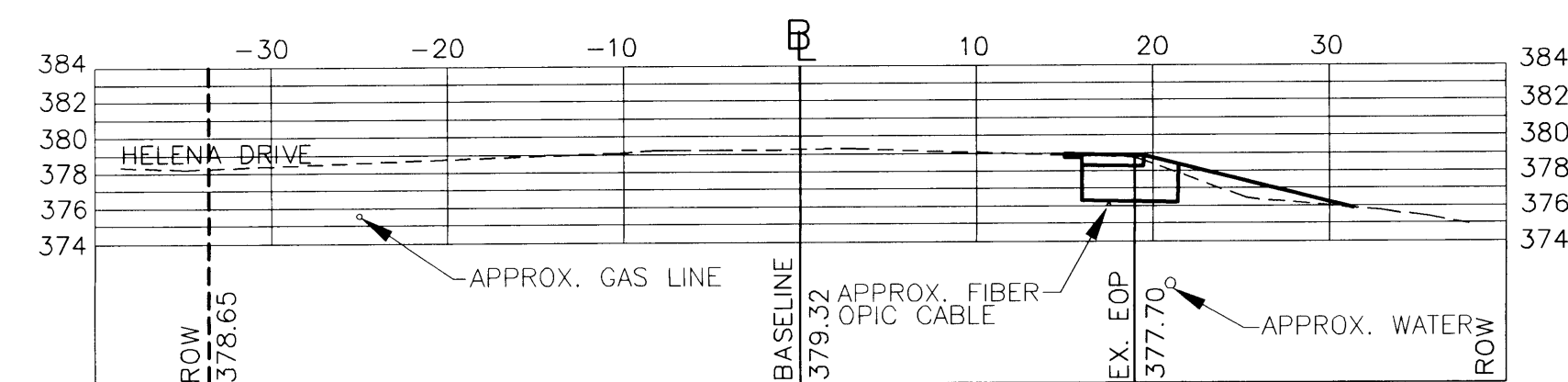
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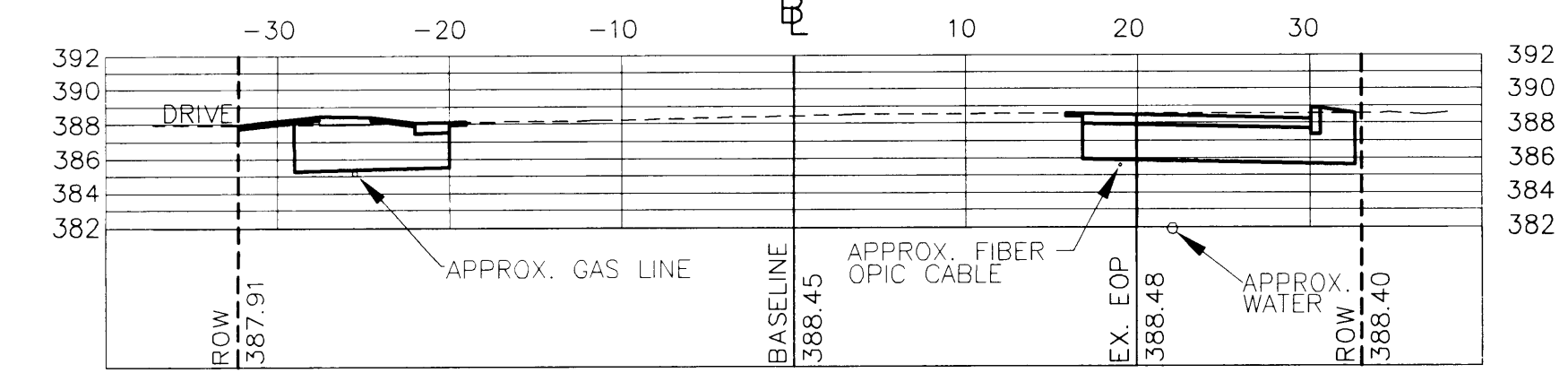
STA: 10+50



STA: 13+50



STA: 10+00



STA: 13+00

**RECORD DRAWINGS**

THIS RECORD DRAWING HAS BEEN PREPARED BY GRIFFIN INTERNATIONAL, INC. BASED ON BASE PLAN DESIGN DRAWINGS PROVIDED BY LAMOUREUX & DICKINSON, INC.. CHANGES MADE TO THE DESIGN PLANS ARE INDICATED. THE INFORMATION PROVIDED REGARDING ANY DEVIATION FROM THE DESIGN PLANS ARE BASED ON RESIDENT ENGINEER NOTES AND MEASUREMENT OF ABOVEGROUND FEATURES.

**CONTRACT PLANS**

**VERMONT AGENCY OF TRANSPORTATION**

**WILLISTON NHG 5500 (10)S  
"TAFT CORNERS"  
(US ROUTE 2 & VT ROUTE 2A)**

WILLISTON

VERMONT

**CROSS SECTIONS  
(U.S. ROUTE 2 - WEST)**

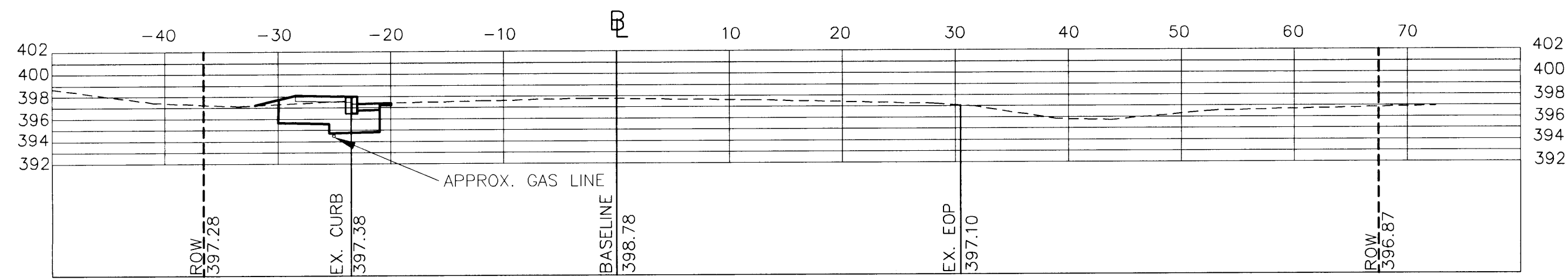
LAMOUREUX & DICKINSON  
Consulting Engineers Inc.

14 Morse Drive  
Essex Junction, VT 05452  
(802) 878-4450

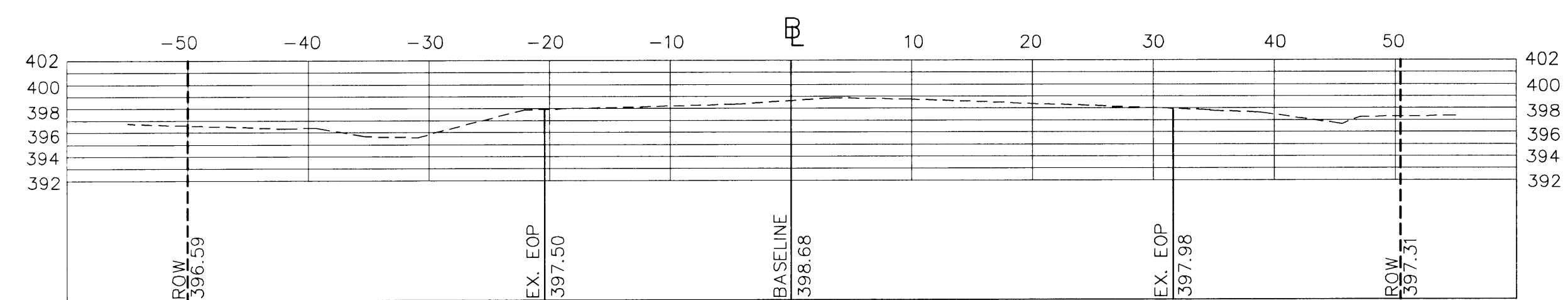
Engineers-Planners-Surveyors

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drawn  
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checked  
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sht. no.

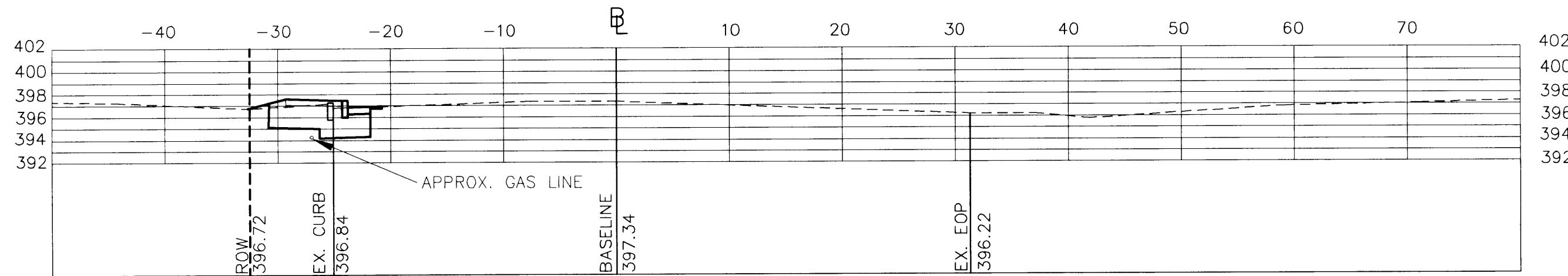
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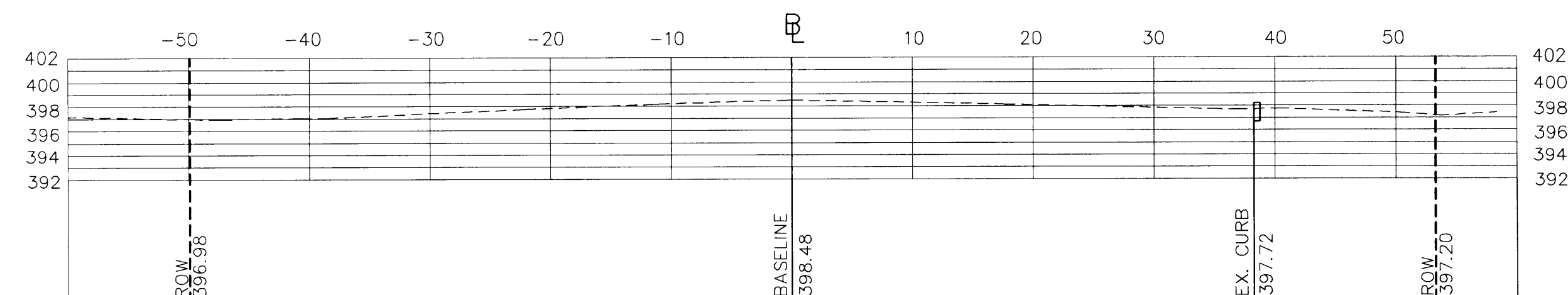
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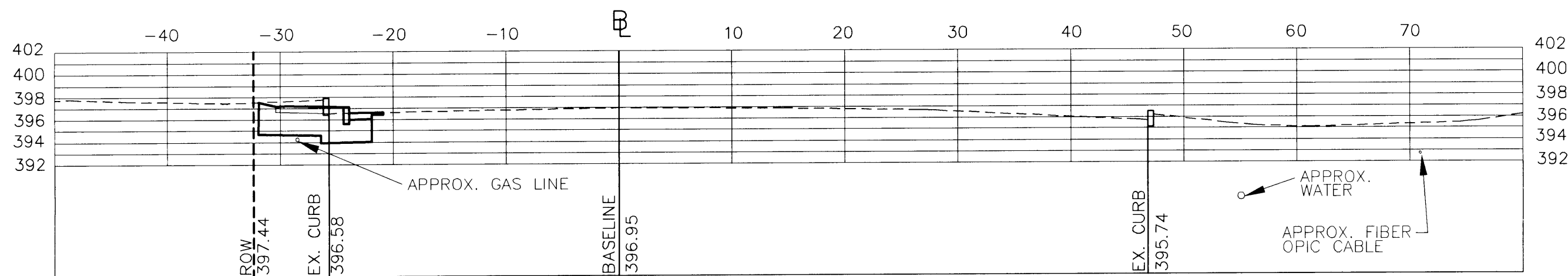
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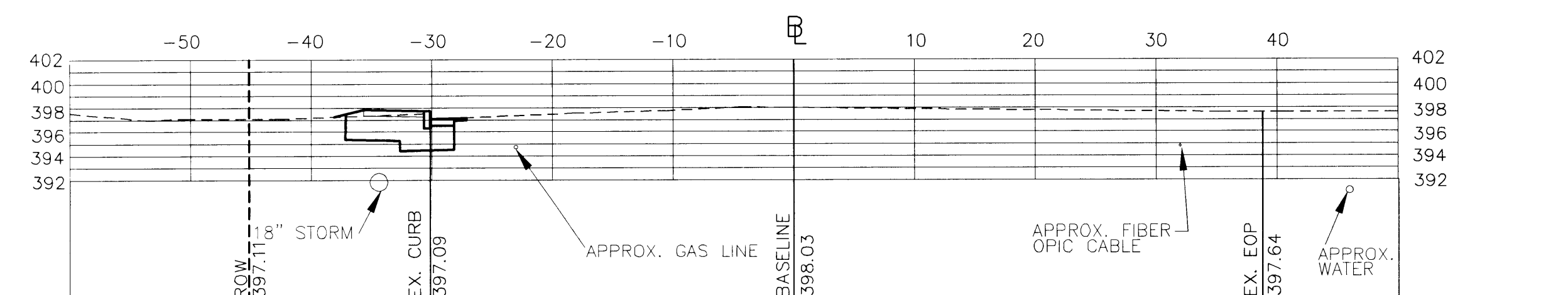
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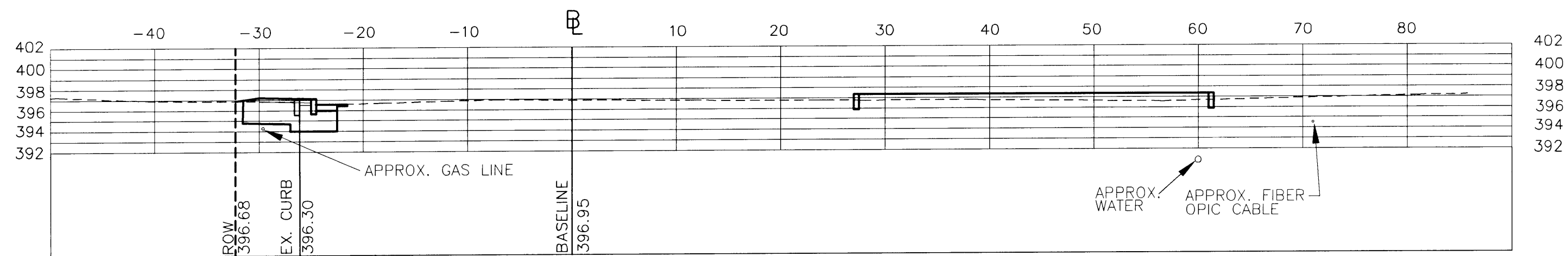
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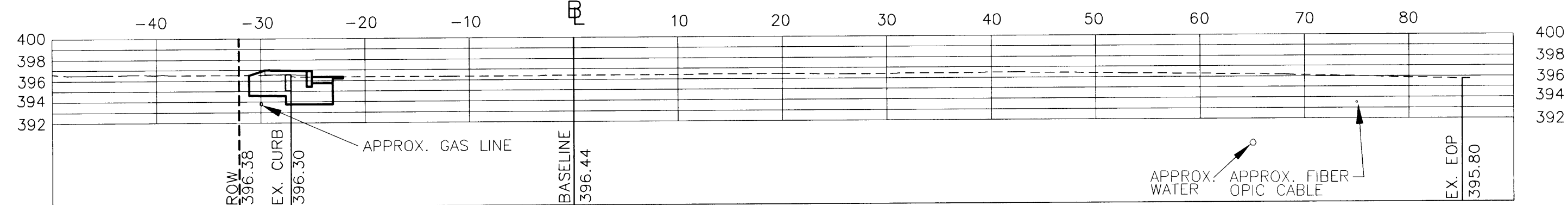
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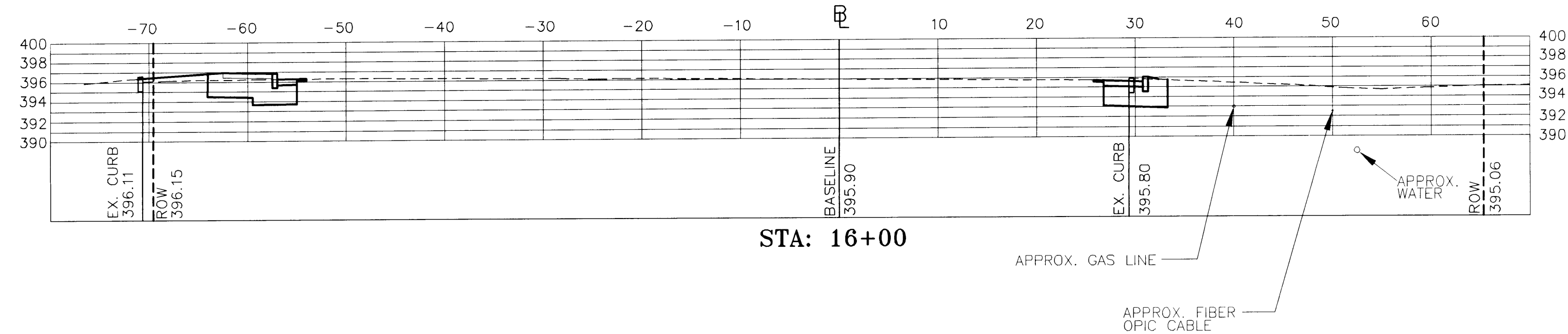
STA: 19+00



STA: 17+00



STA: 16+50



STA: 16+00

CONTRACT PLANS

VERMONT AGENCY OF  
TRANSPORTATION

WILLISTON NHG 5500 (10)S  
"TAFT CORNERS"  
(US ROUTE 2 & VT ROUTE 2A)

WILLISTON

VERMONT

CROSS SECTIONS  
(U.S. ROUTE 2 - EAST)

LAMOUREUX & DICKINSON  
Consulting Engineers Inc.

14 Morse Drive  
Essex Junction, VT 05452  
(802) 878-4450

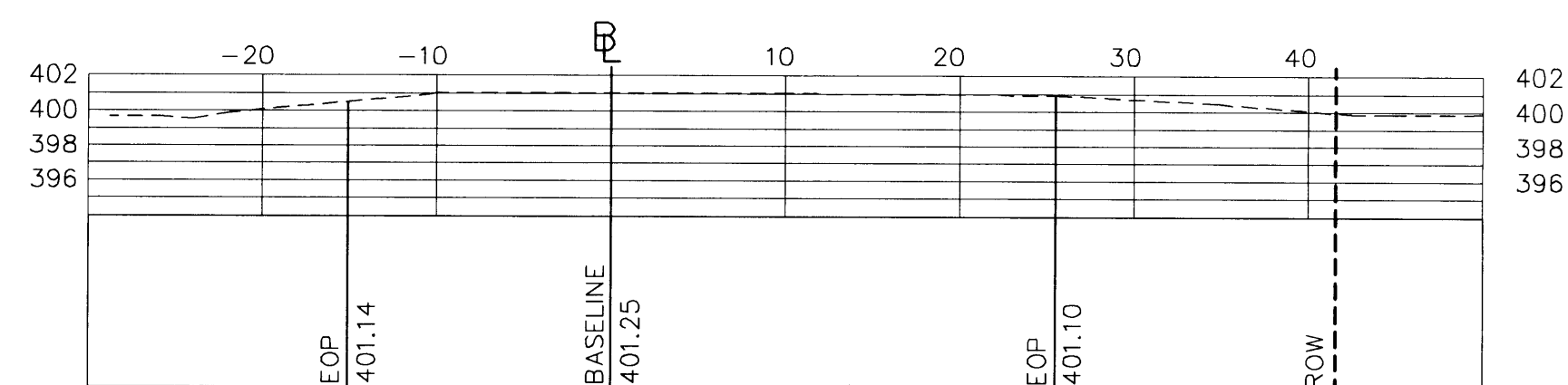
Engineers-Planners-Surveyors

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drawn  
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scale  
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sht. no.

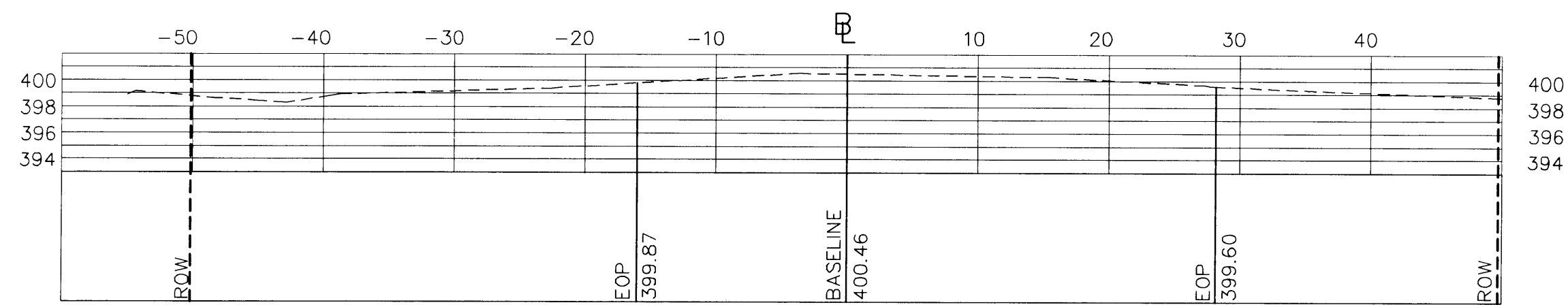
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RECORD DRAWINGS

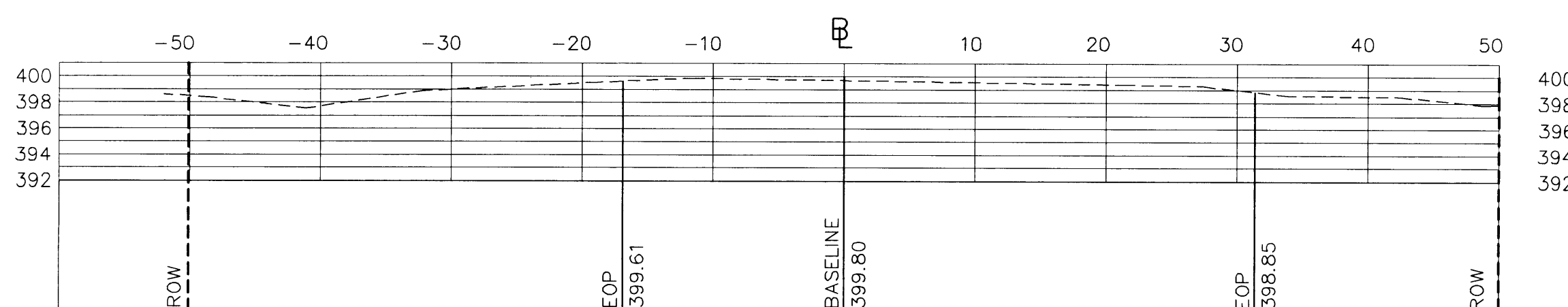
THIS RECORD DRAWING HAS BEEN PREPARED BY GRIFFIN INTERNATIONAL, INC. BASED ON BASE PLAN DESIGN DRAWINGS PROVIDED BY LAMOUREUX & DICKINSON, INC. CHANGES MADE TO THE DESIGN PLANS ARE INDICATED. THE INFORMATION PROVIDED REGARDING ANY DEVIATION FROM THE DESIGN PLANS ARE BASED ON RESIDENT ENGINEER NOTES AND MEASUREMENT OF ABOVEGROUND FEATURES.



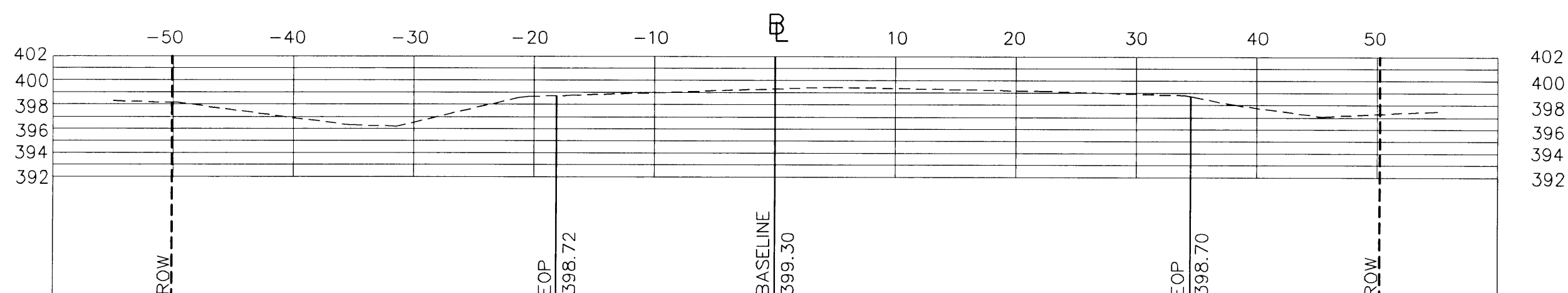
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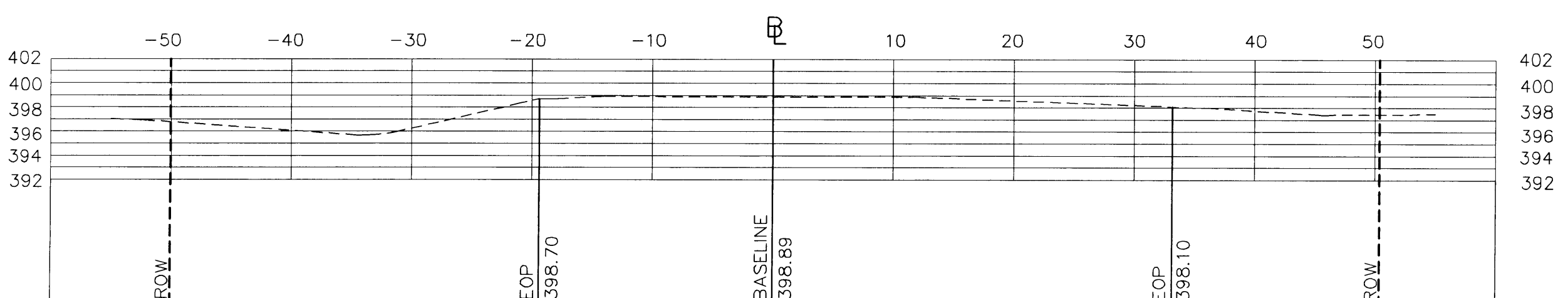
STA: 22+00



STA: 21+50



STA: 21+00



STA: 20+50

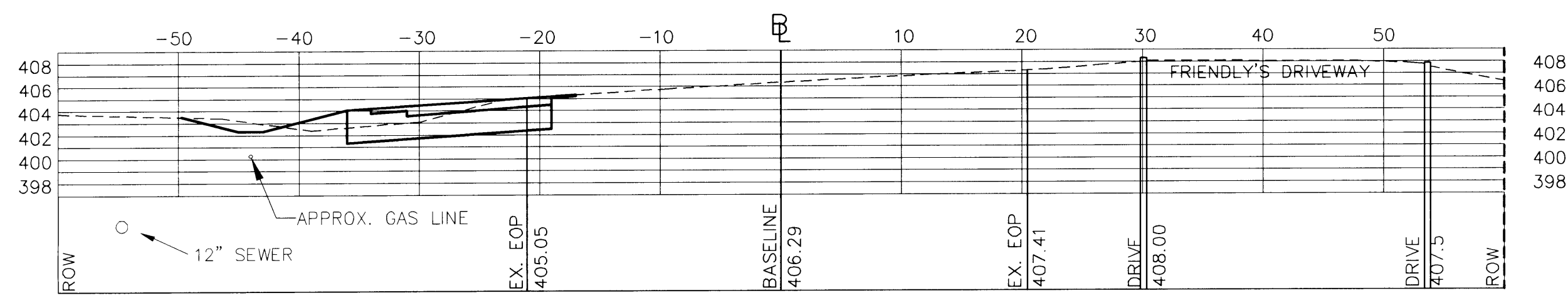
**RECORD DRAWINGS**  
 THIS RECORD DRAWING HAS BEEN PREPARED BY GRIFFIN INTERNATIONAL, INC. BASED ON BASE PLAN DESIGN DRAWINGS PROVIDED BY LAMOUREUX & DICKINSON, INC.. CHANGES MADE TO THE DESIGN PLANS ARE INDICATED. THE INFORMATION PROVIDED REGARDING ANY DEVIATION FROM THE DESIGN PLANS ARE BASED ON RESIDENT ENGINEER NOTES AND MEASUREMENT OF ABOVEGROUND FEATURES.

**CONTRACT PLANS**  
 VERMONT AGENCY OF TRANSPORTATION  
 WILLISTON NHG 5500 (10)S  
 "TAFT CORNERS"  
 (US ROUTE 2 & VT ROUTE 2A)  
 WILLISTON VERMONT

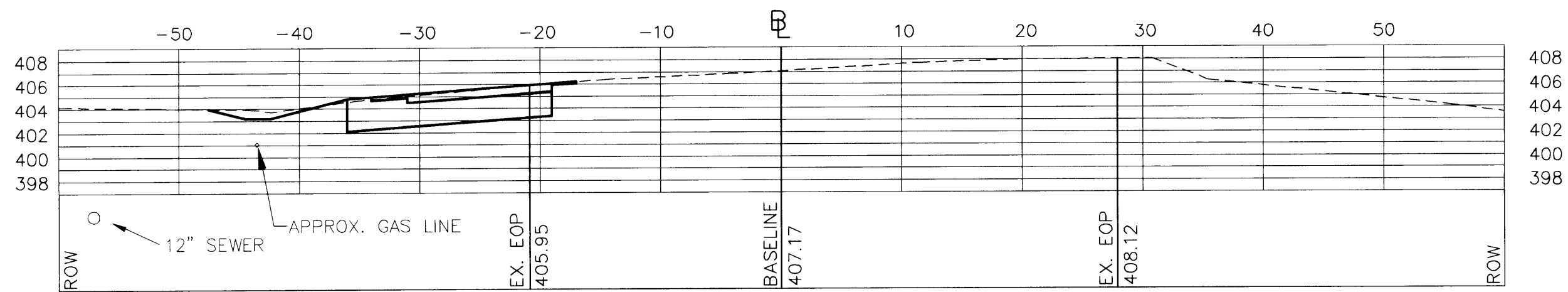
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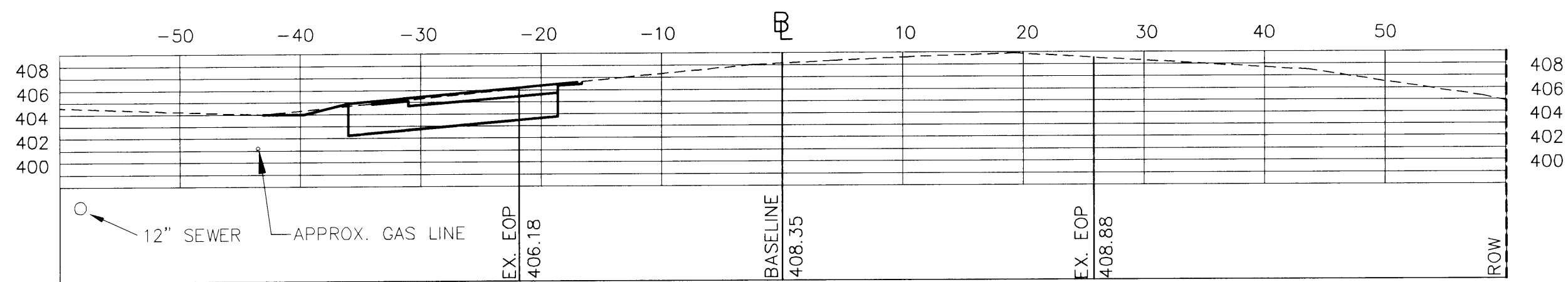
LAMOUREUX & DICKINSON  
 Consulting Engineers Inc.  
 14 Morse Drive  
 Essex Junction, VT 05452  
 (802) 878-4450  
 Engineers-Planners-Surveyors



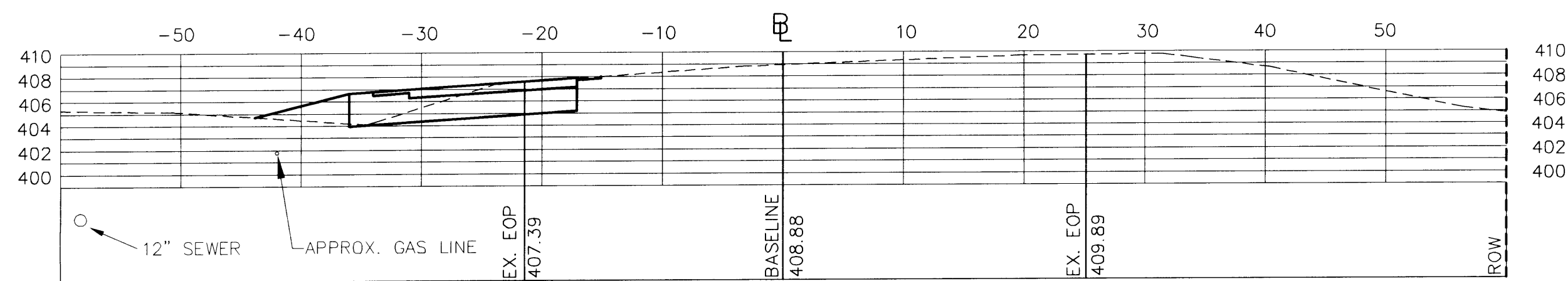
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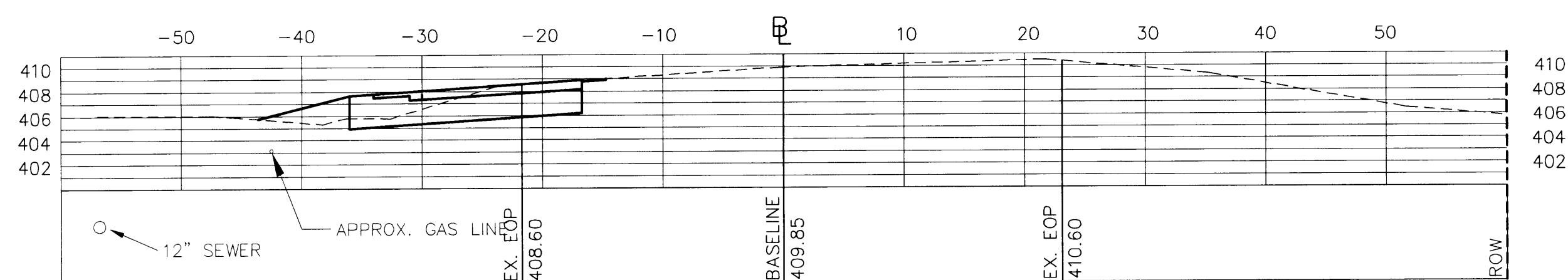
STA: 101+50



STA: 101+00

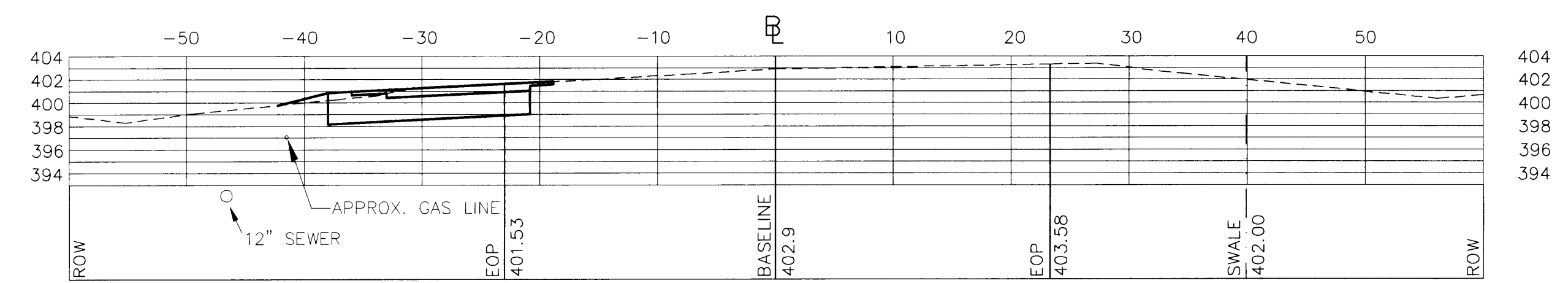


STA: 100+50

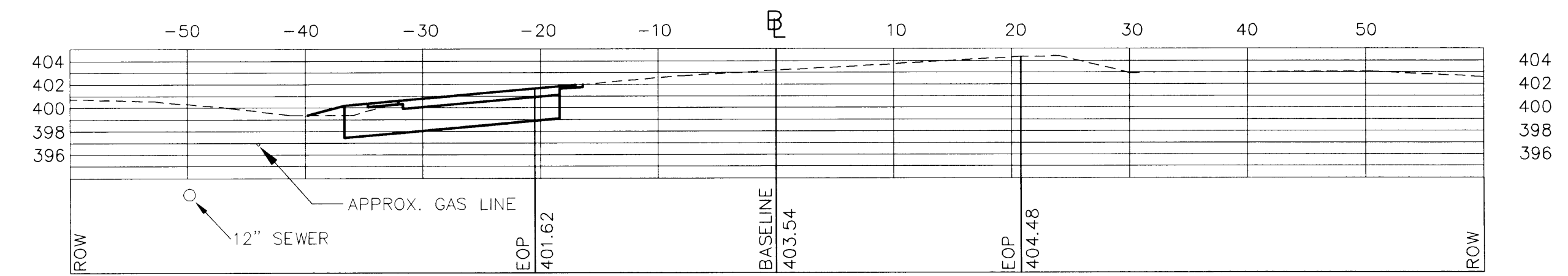


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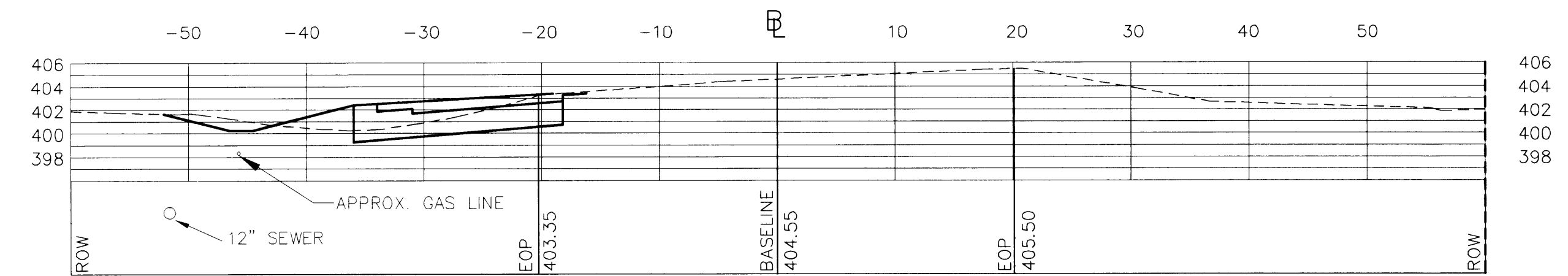
NOTE:  
 ALL WORK SOUTH OF STA. 102+50 MAY BE DELETED FROM THE CONTRACT AT THE TIME OF CONTRACT AWARD IF THE NEEDED RIGHT-OF-WAY REQUIRED FROM THE HOWARD BANK HAS NOT YET BEEN OBTAINED.



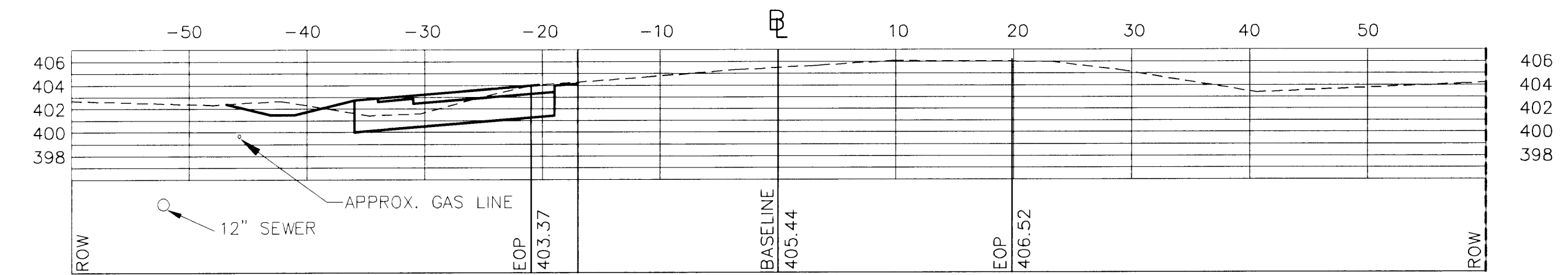
STA: 104+00



STA: 103+50



STA: 103+00



STA: 102+50

**RECORD DRAWINGS**  
 THIS RECORD DRAWING HAS BEEN PREPARED BY GRIFFIN INTERNATIONAL, INC. BASED ON BASE PLAN DESIGN DRAWINGS PROVIDED BY LAMOUREUX & DICKINSON, INC. CHANGES MADE TO THE DESIGN PLANS ARE INDICATED. THE INFORMATION PROVIDED REGARDING ANY DEVIATION FROM THE DESIGN PLANS ARE BASED ON RESIDENT ENGINEER NOTES AND MEASUREMENT OF ABOVEGROUND FEATURES.

**CONTRACT PLANS**

**VERMONT AGENCY OF TRANSPORTATION**

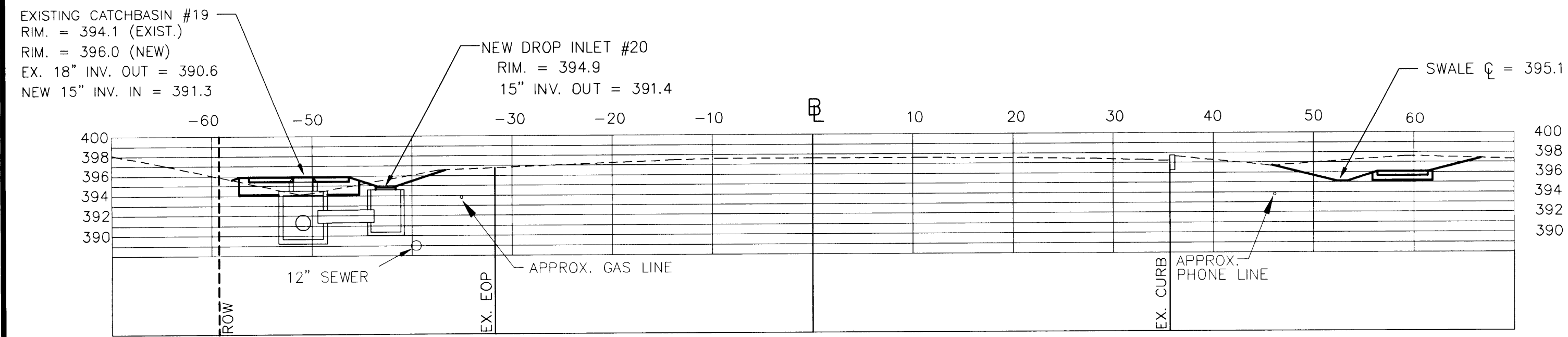
WILLISTON NHG 5500 (10)S  
 "TAFT CORNERS"  
 (US ROUTE 2 & VT ROUTE 2A)

WILLISTON VERMONT

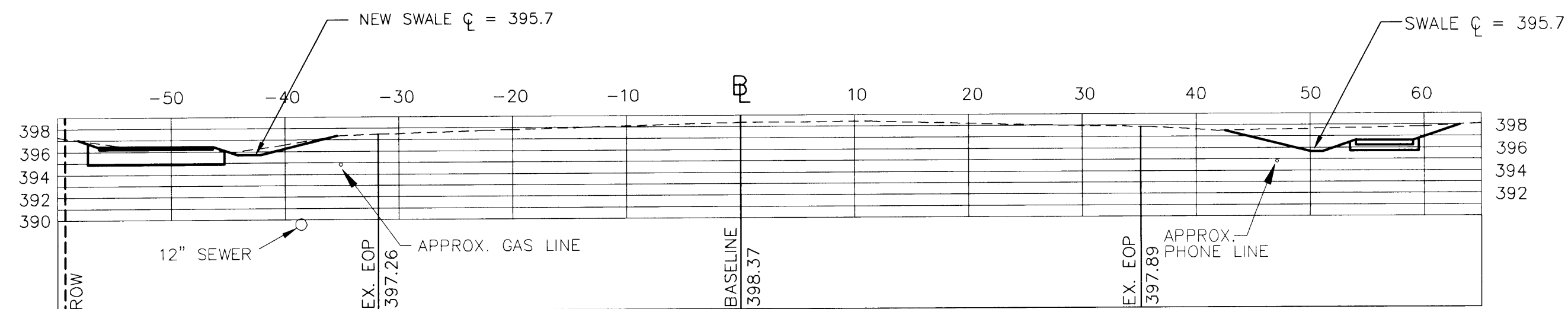
**CROSS SECTIONS**  
 (VT ROUTE 2A SOUTH)

LAMOUREUX & DICKINSON  
 Consulting Engineers Inc.  
 14 Morse Drive  
 Essex Junction, VT 05452  
 (802) 878-4450  
 Engineers-Planners-Surveyors

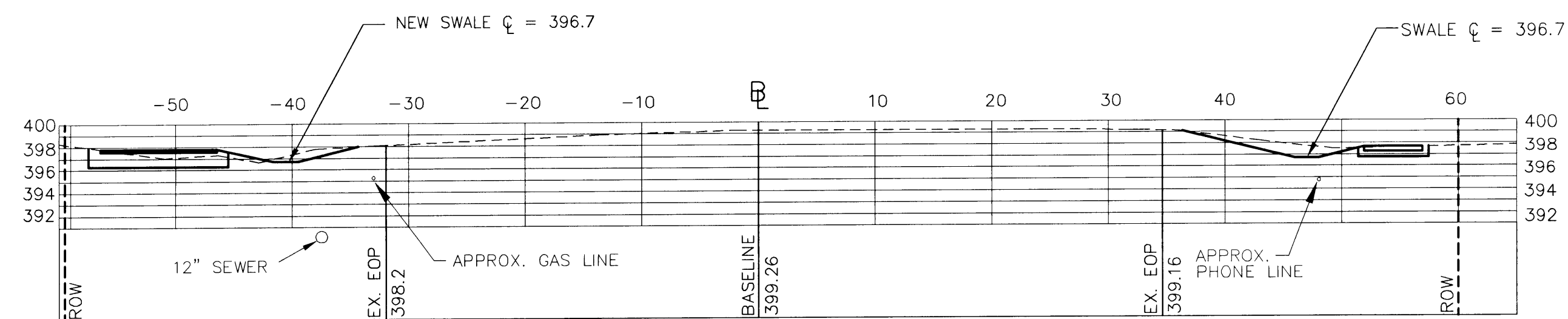
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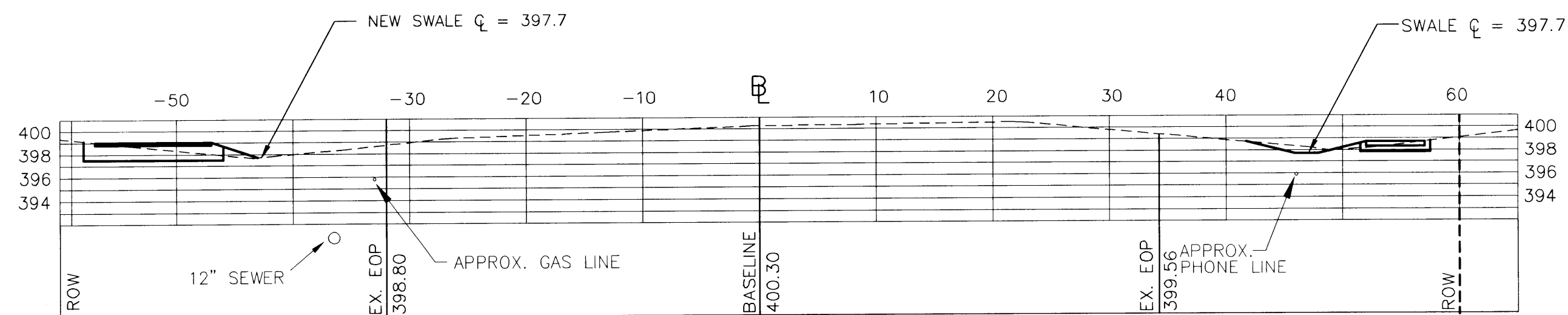
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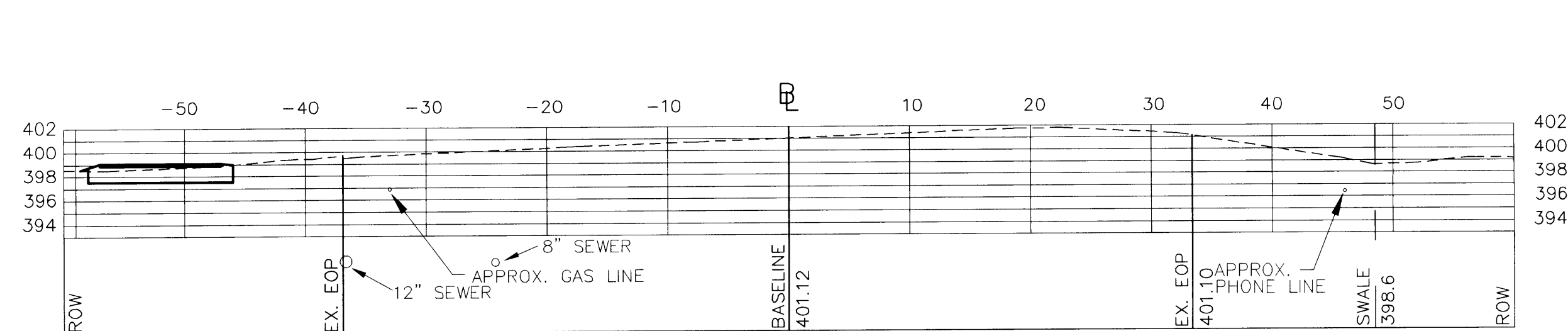
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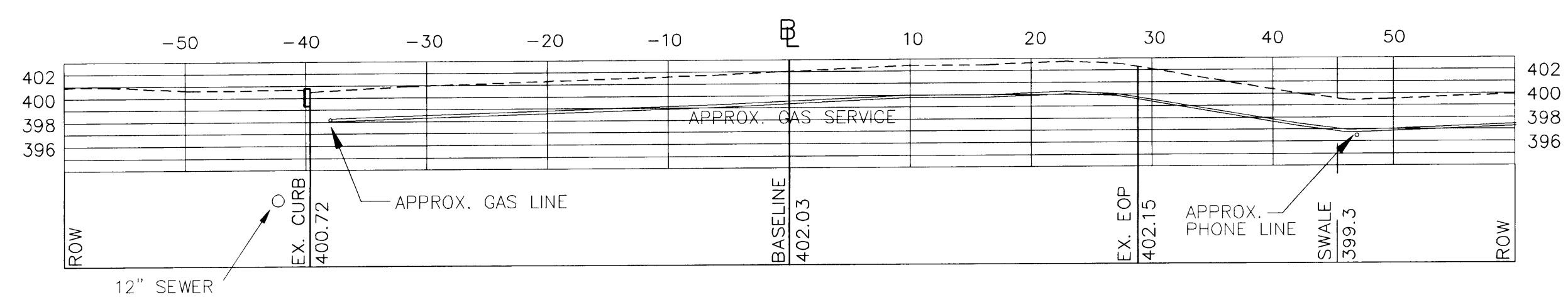
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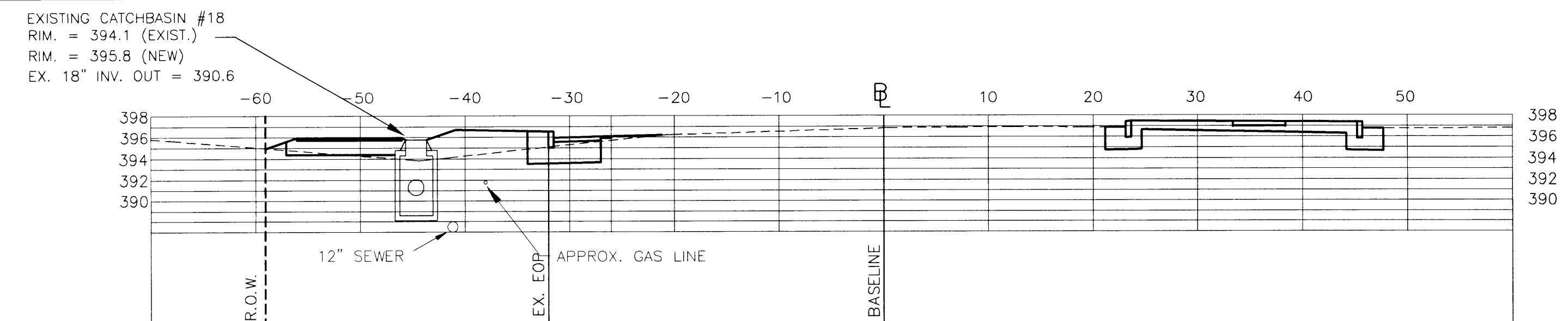
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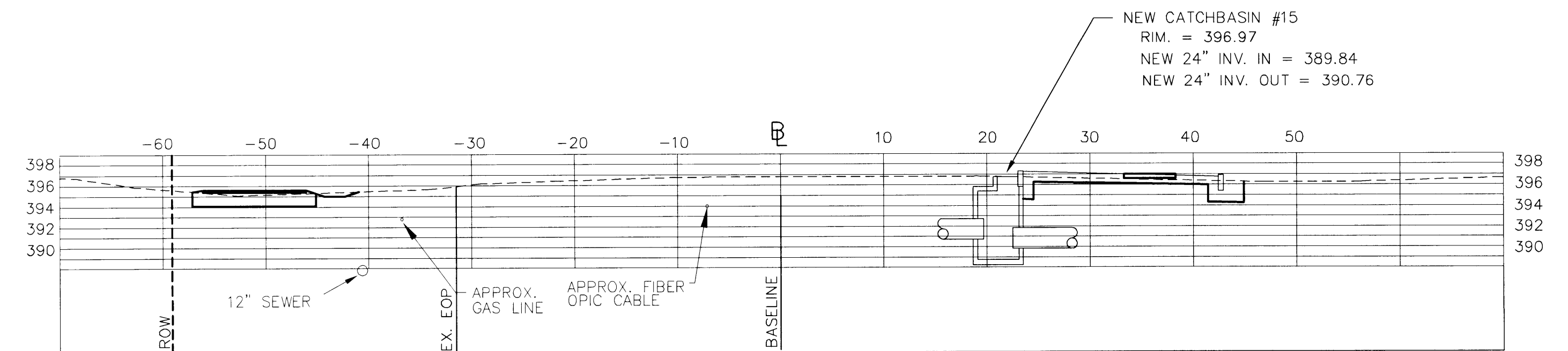
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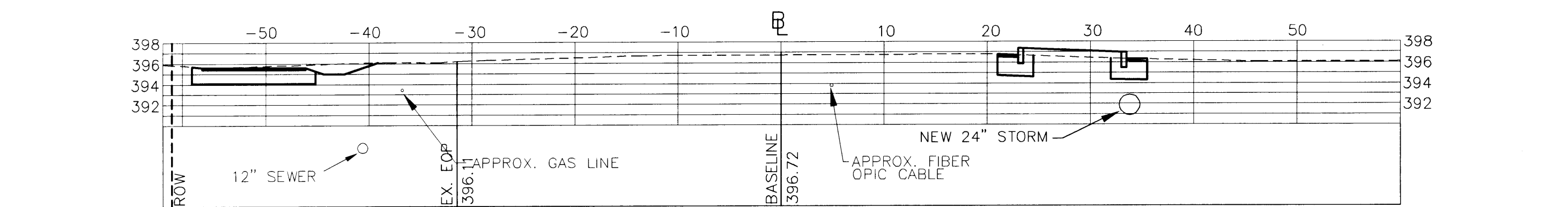
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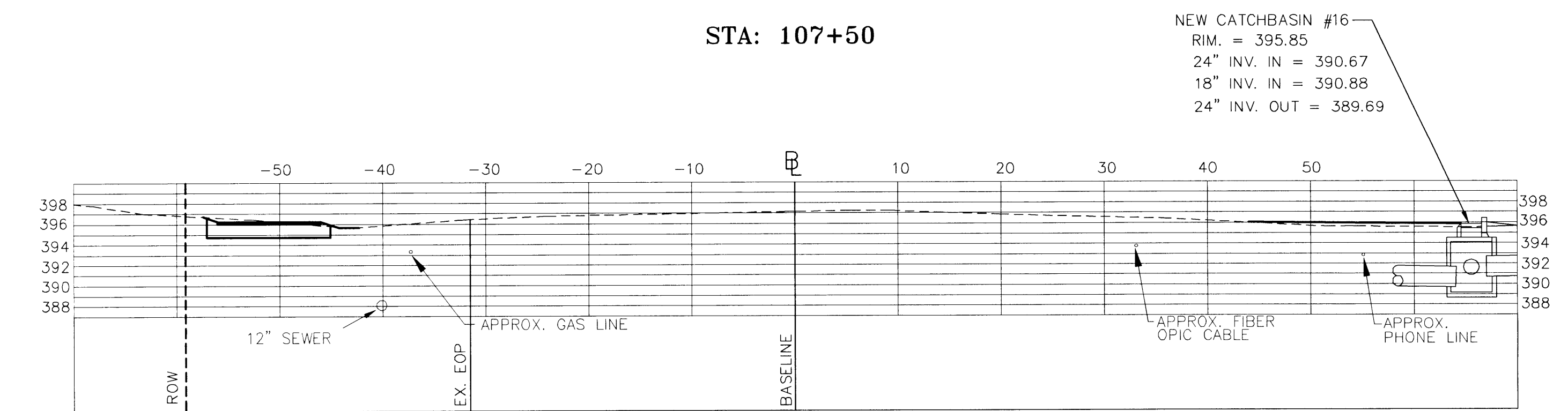
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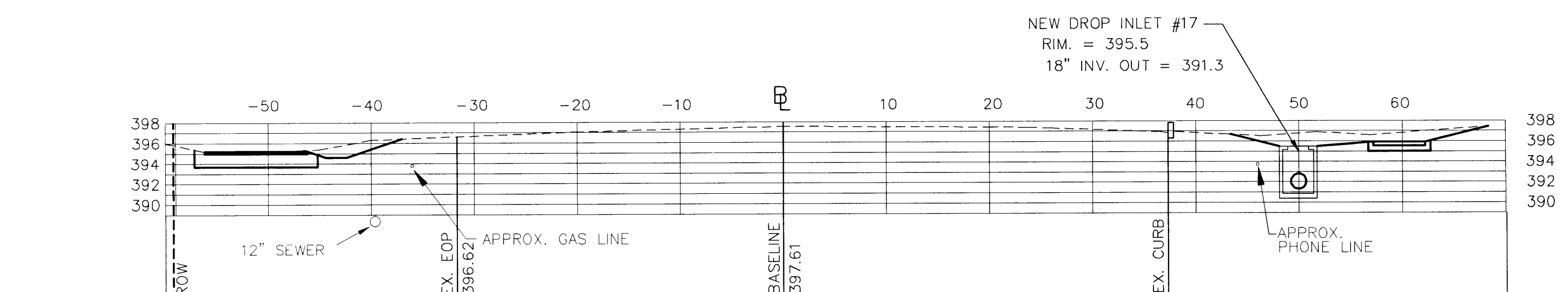
STA: 107+60



STA: 107+50



STA: 107+30



STA: 107+00

CONTRACT PLANS

VERMONT AGENCY OF TRANSPORTATION

WILLISTON NHG 5500 (10)S  
"TAFT CORNERS"  
(US ROUTE 2 & VT ROUTE 2A)

WILLISTON

VERMONT

CROSS SECTIONS  
(VT ROUTE 2A SOUTH)

LAMOUREUX & DICKINSON  
Consulting Engineers Inc.

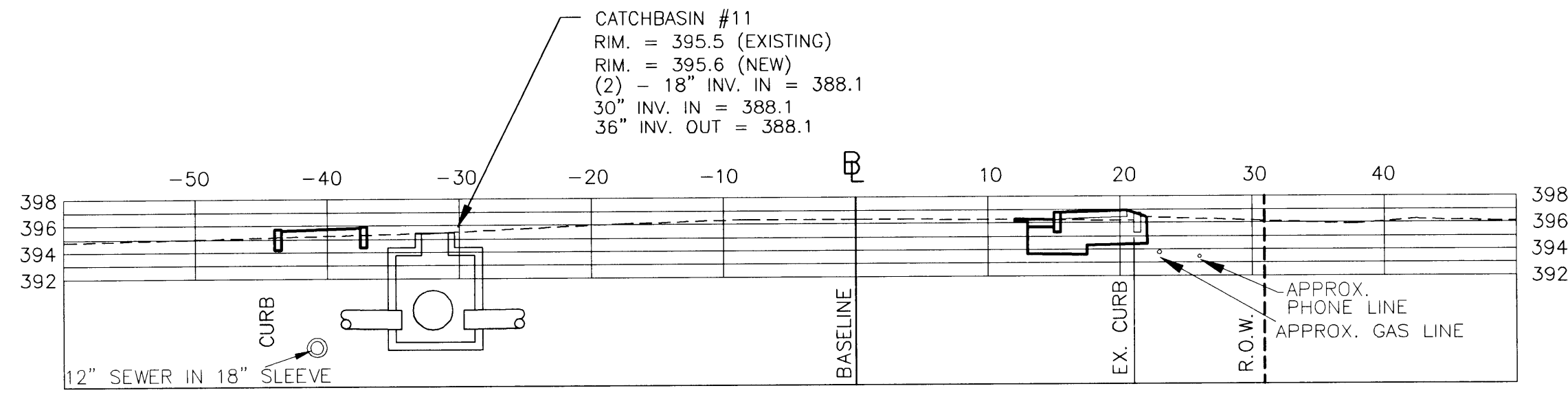
14 Morse Drive  
Essex Junction, VT 05452  
(802) 878-4450

Engineers-Planners-Surveyors

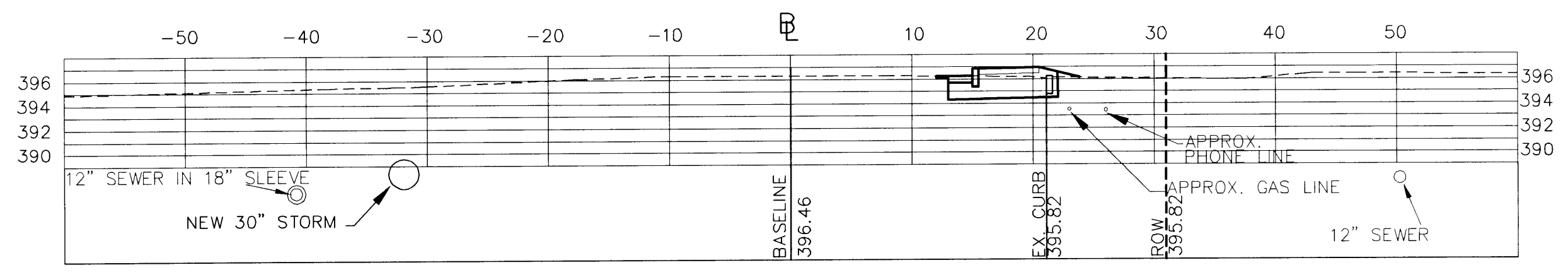
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19

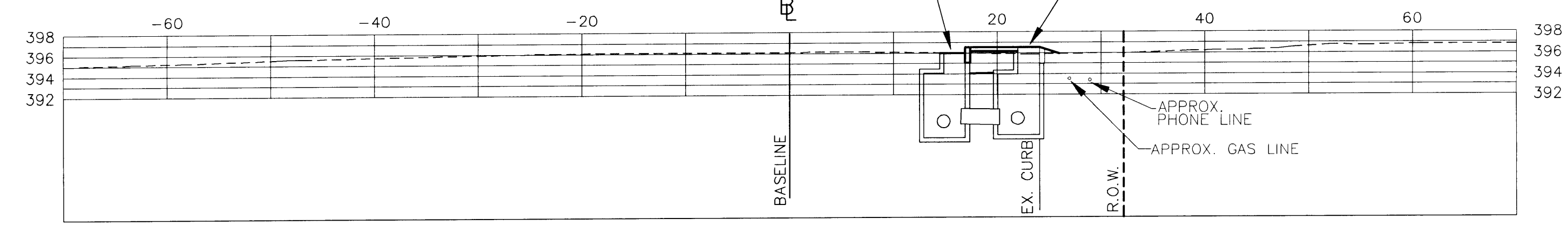
**RECORD DRAWINGS**  
THIS RECORD DRAWING HAS BEEN PREPARED BY GRIFFIN INTERNATIONAL, INC. BASED ON BASE PLAN DESIGN DRAWINGS PROVIDED BY LAMOUREUX & DICKINSON, INC. CHANGES MADE TO THE DESIGN PLANS ARE INDICATED. THE INFORMATION PROVIDED REGARDING ANY DEVIATION FROM THE DESIGN PLANS ARE BASED ON RESIDENT ENGINEER NOTES AND MEASUREMENT OF ABOVEGROUND FEATURES.



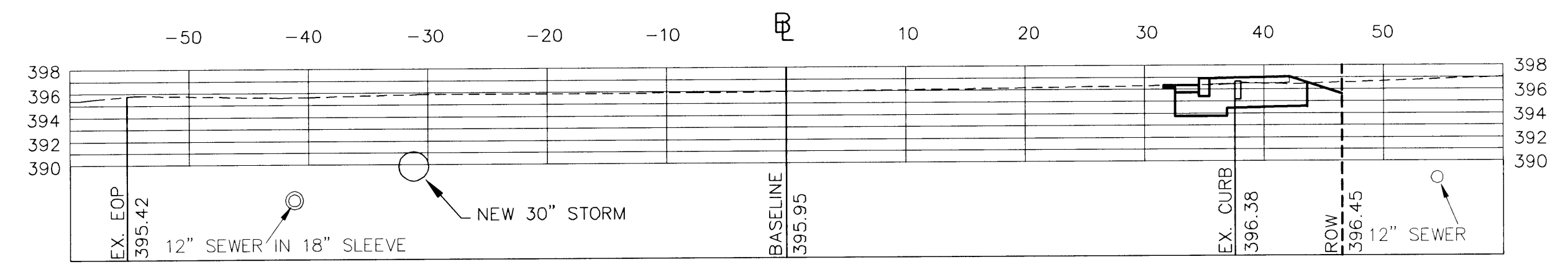
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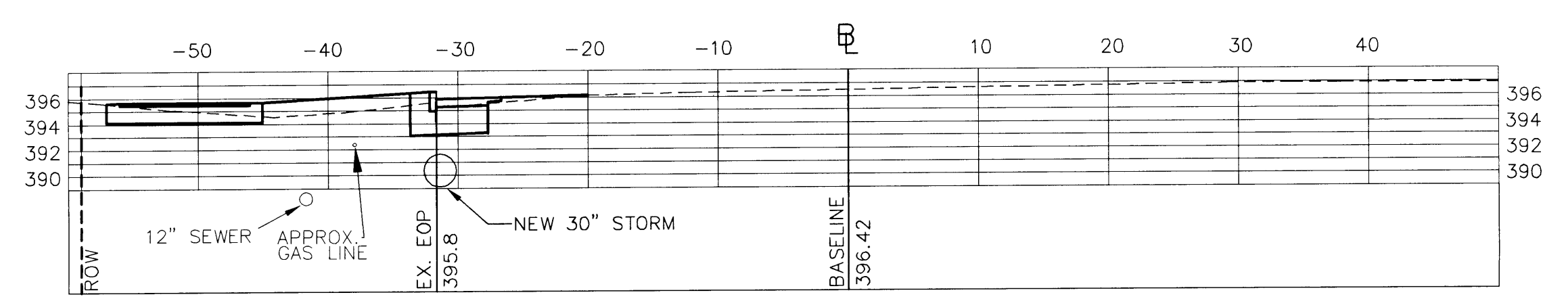
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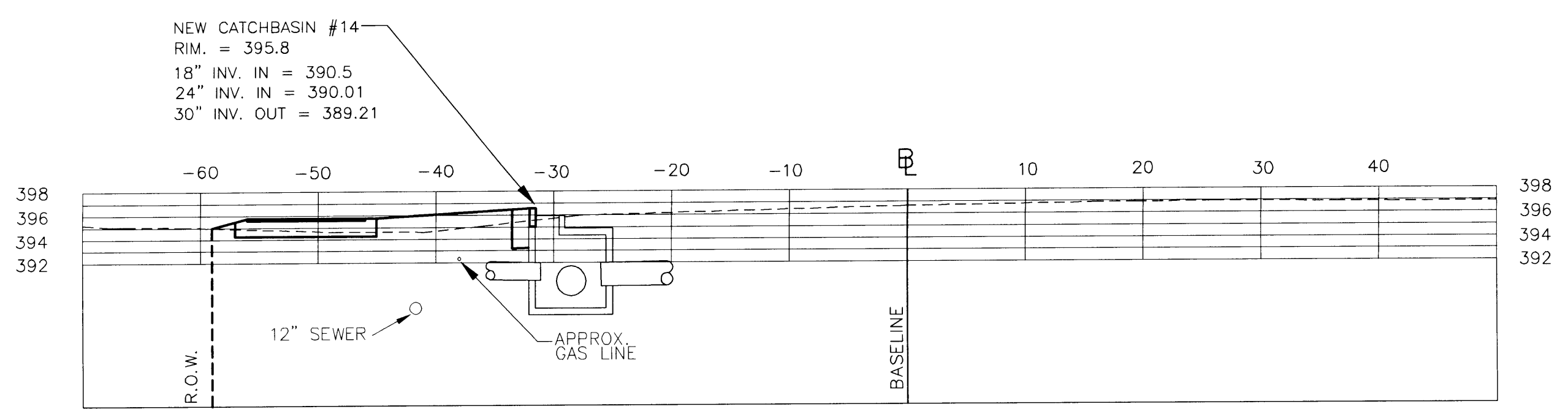
STA: 108+70



STA: 108+50

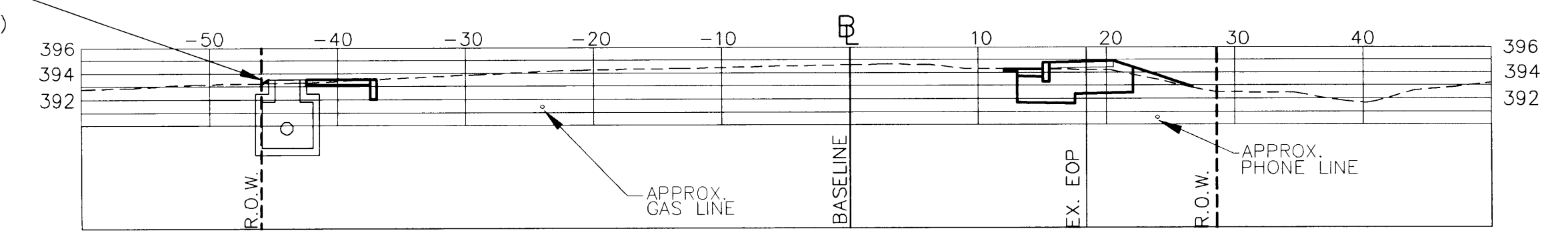


STA: 108+00

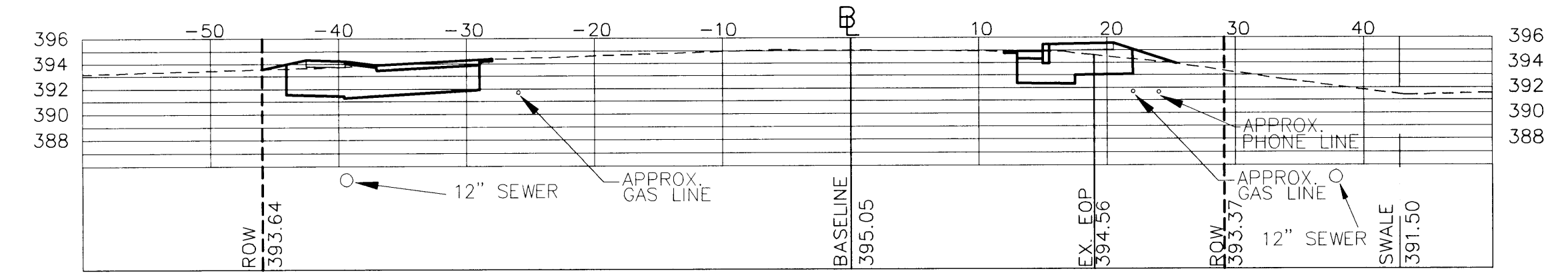


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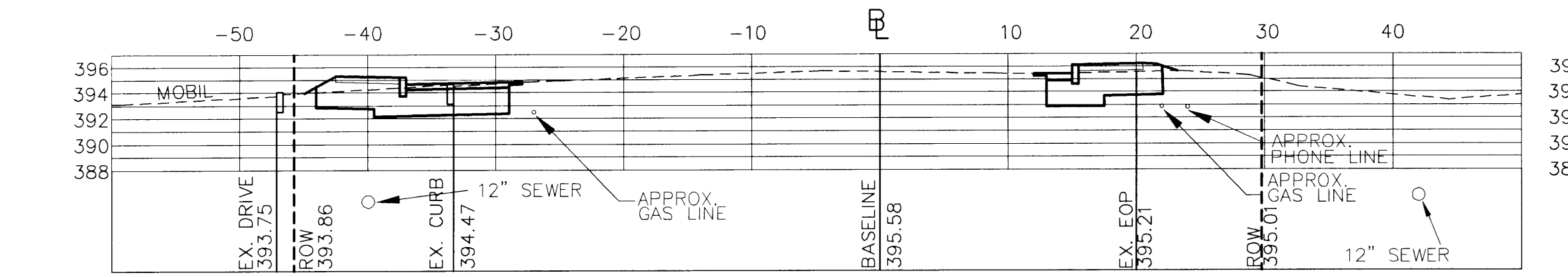
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RIM. = 393.3 (EXISTING)  
RIM. = 393.6 (NEW)  
12" INV. OUT = 389.3



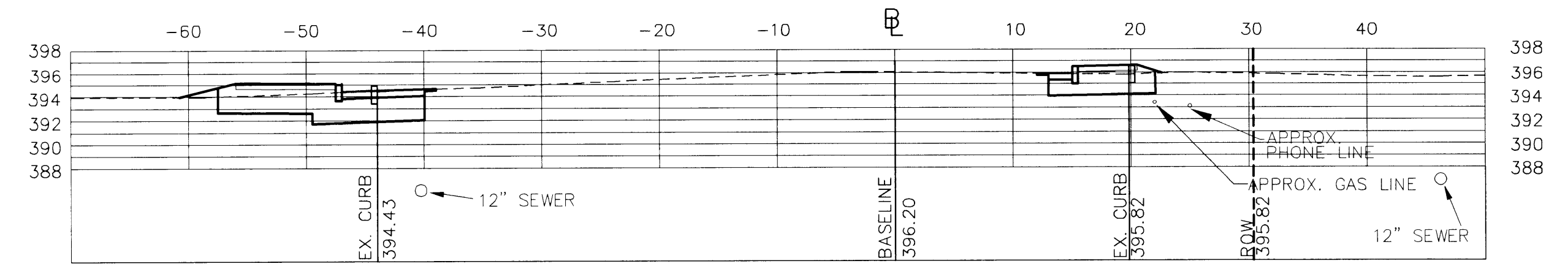
STA: 110+84



STA: 110+50



STA: 110+00



STA: 109+50

CONTRACT PLANS

VERMONT AGENCY OF  
TRANSPORTATION

WILLISTON NHG 5500 (10)S  
"TAFT CORNERS"  
(US ROUTE 2 & VT ROUTE 2A)

WILLISTON VERMONT

CROSS SECTIONS  
(VT ROUTE 2A NORTH)

LAMOUREUX & DICKINSON  
Consulting Engineers Inc.

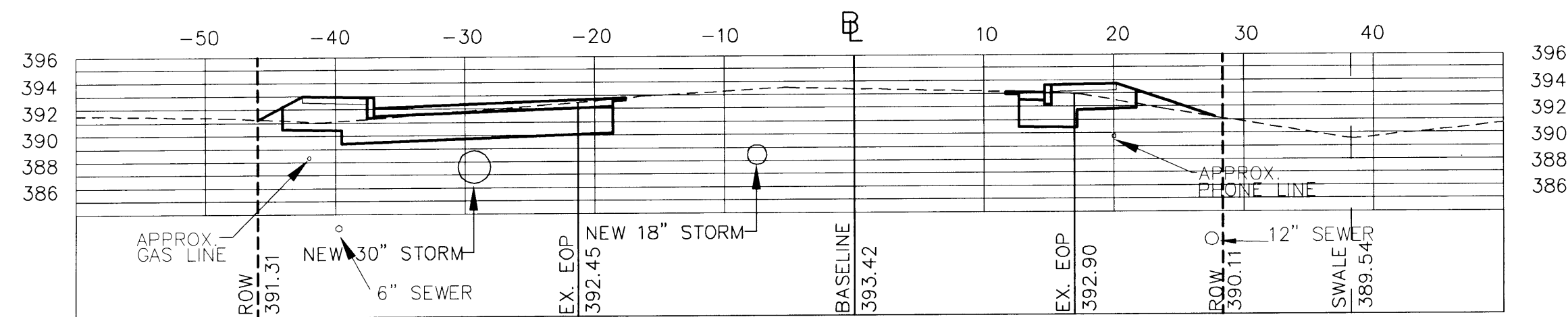
14 Morse Drive  
Essex Junction, VT 05452  
(802) 878-4450

Engineers-Planners-Surveyors

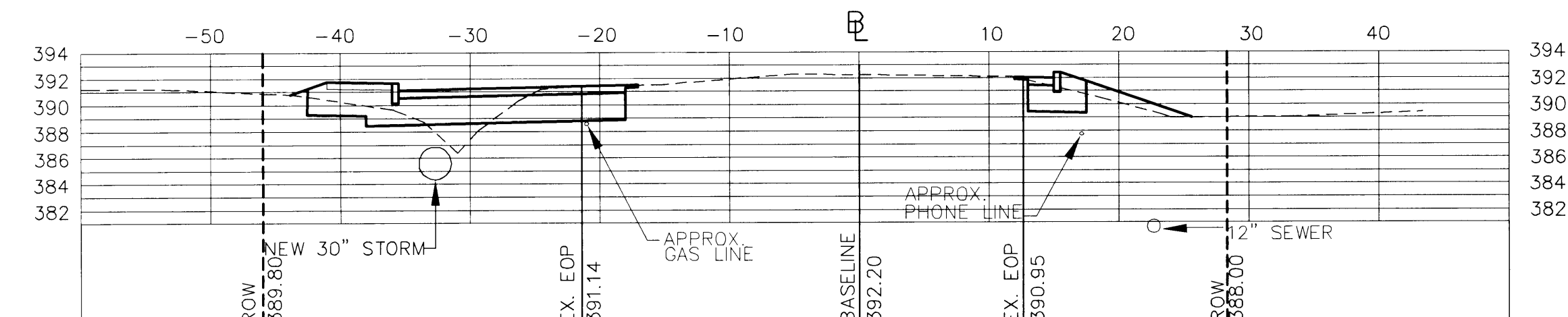
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sht. no.

20

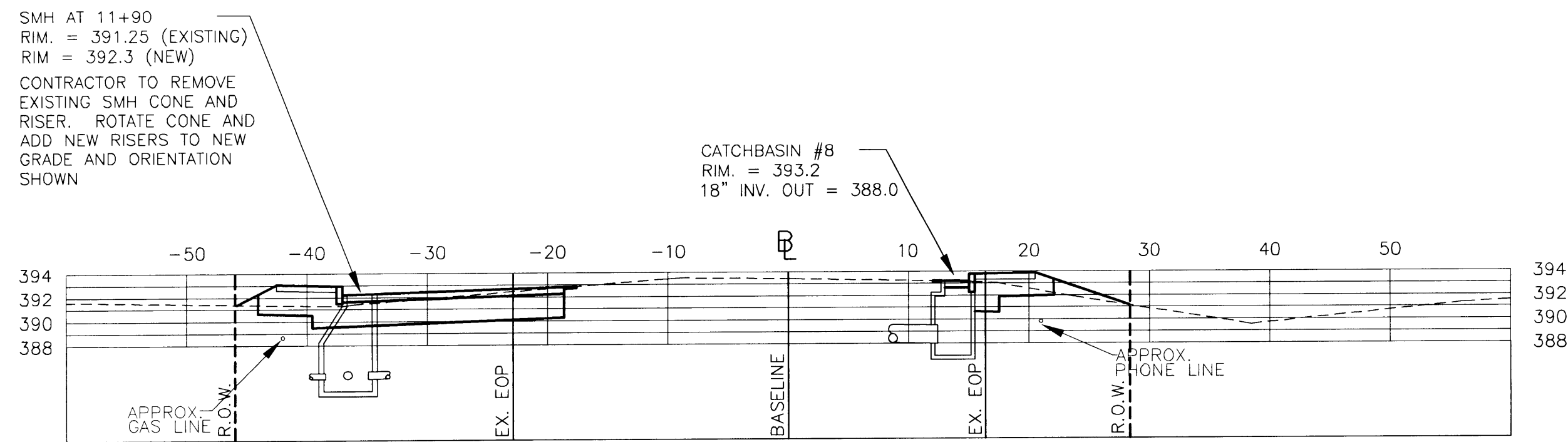
**RECORD DRAWINGS**  
THIS RECORD DRAWING HAS BEEN PREPARED BY GRIFFIN INTERNATIONAL, INC. BASED ON BASE PLAN DESIGN DRAWINGS PROVIDED BY LAMOUREUX & DICKINSON, INC. CHANGES MADE TO THE DESIGN PLANS ARE INDICATED. THE INFORMATION PROVIDED REGARDING ANY DEVIATION FROM THE DESIGN PLANS ARE BASED ON RESIDENT ENGINEER NOTES AND MEASUREMENT OF ABOVEGROUND FEATURES.



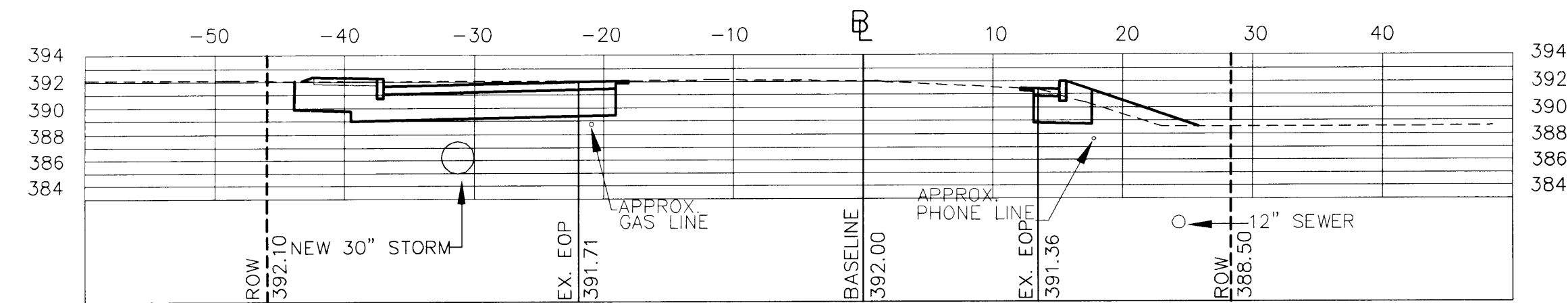
STA: 112+00



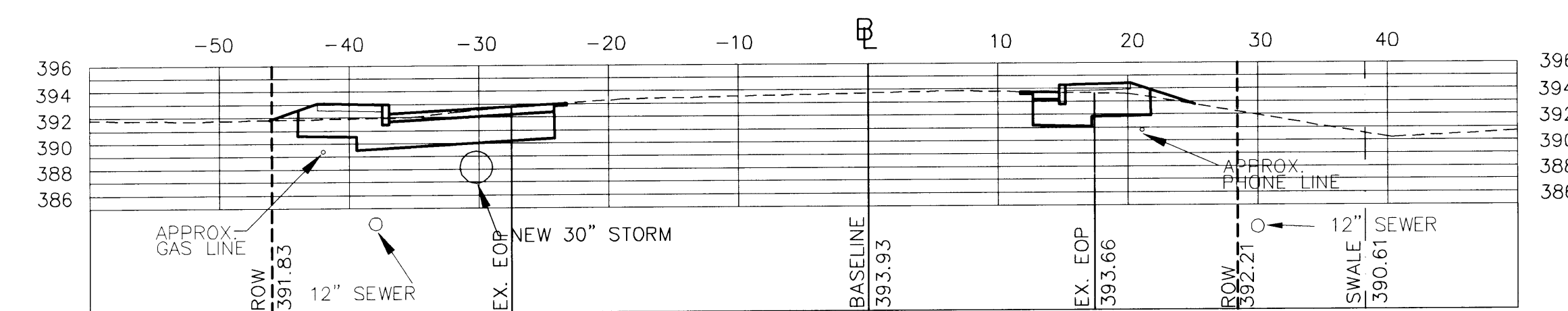
STA: 113+50



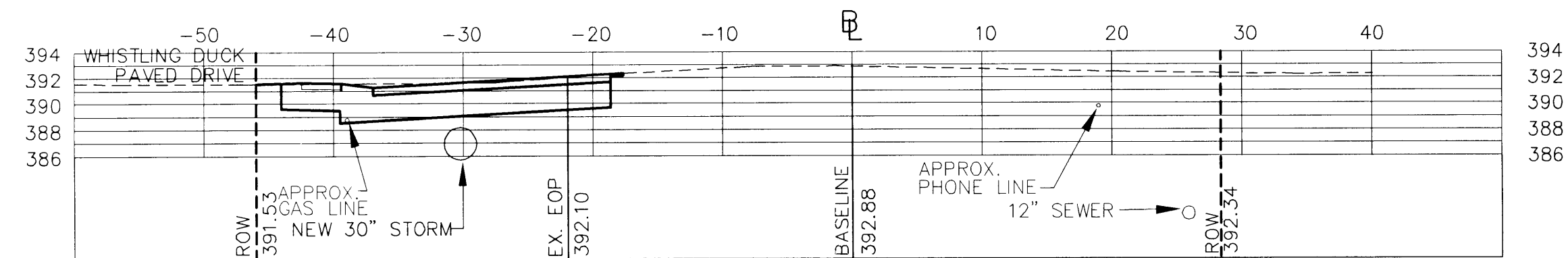
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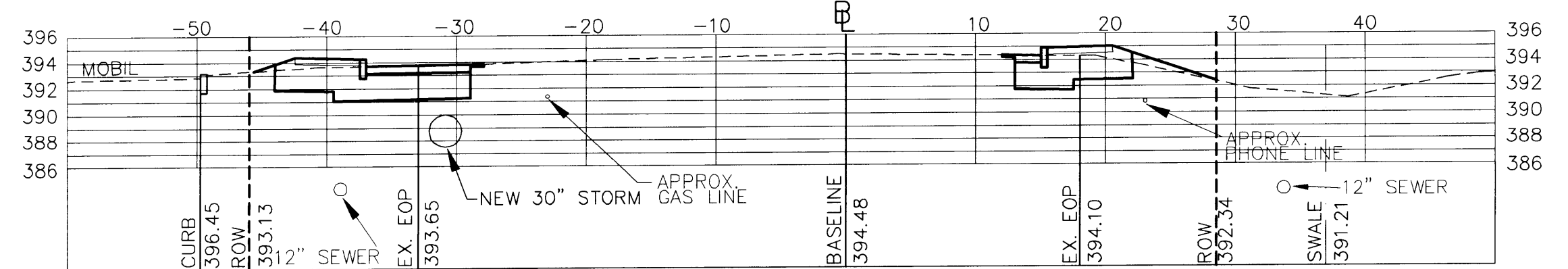
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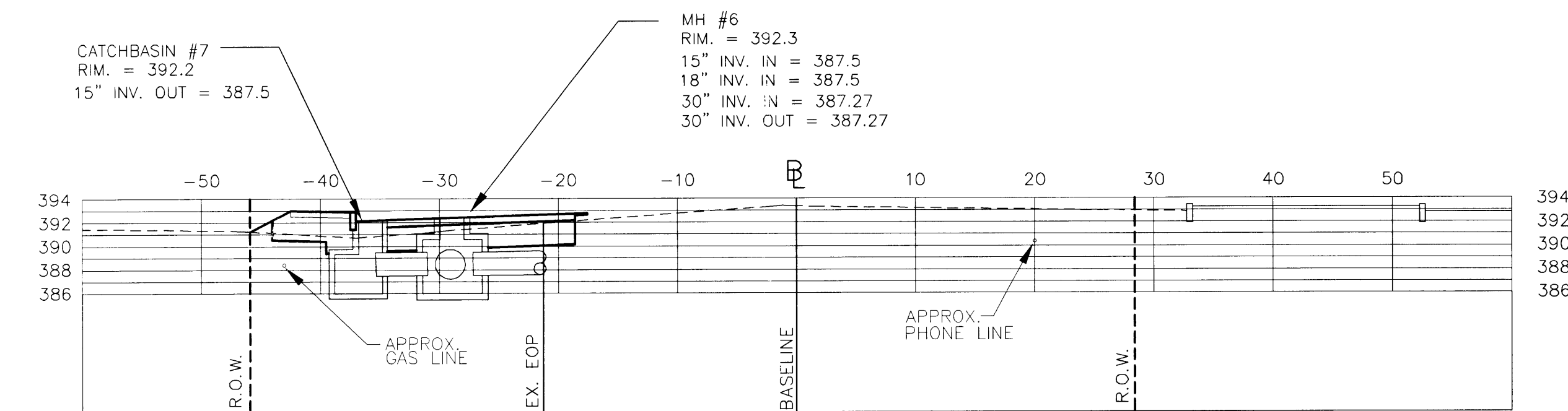
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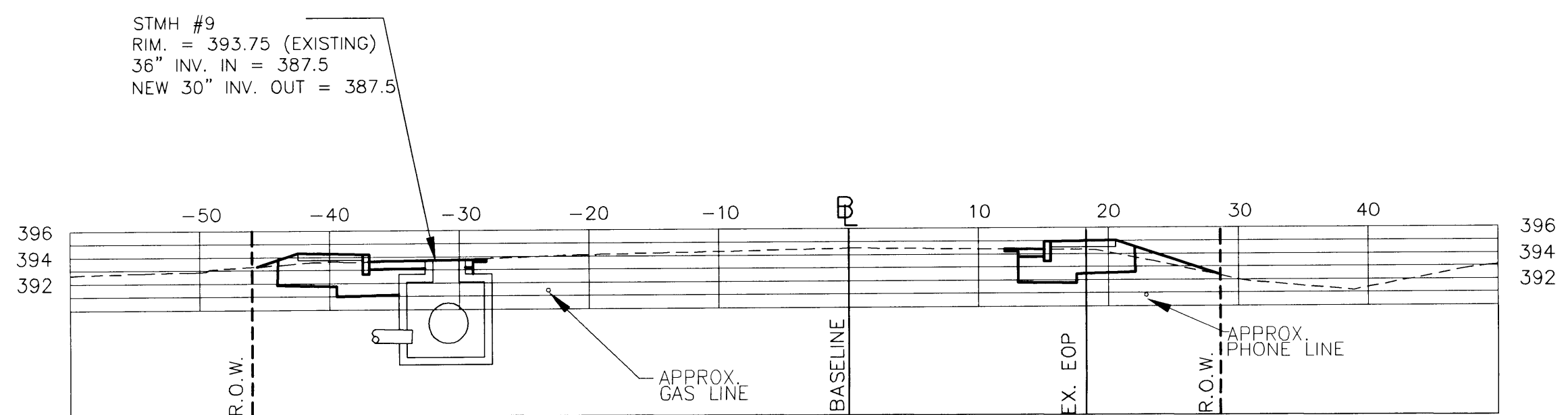
STA: 112+50



STA: 111+00



STA: 112+15

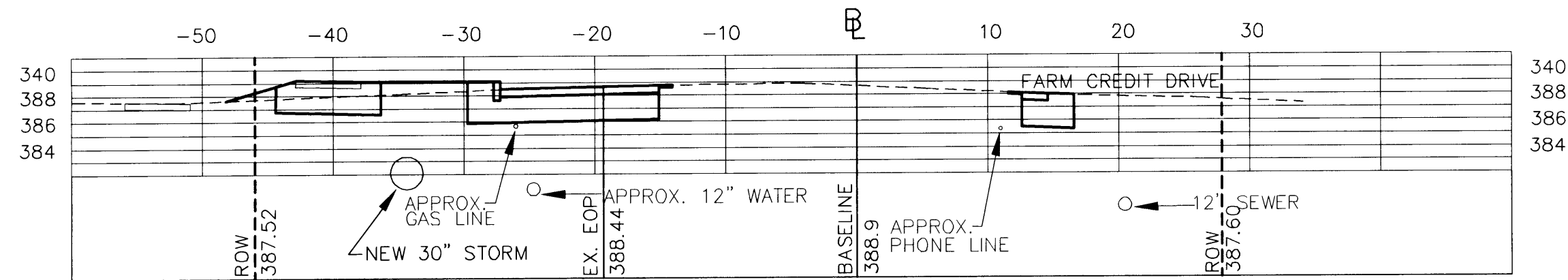


STA: 110+98

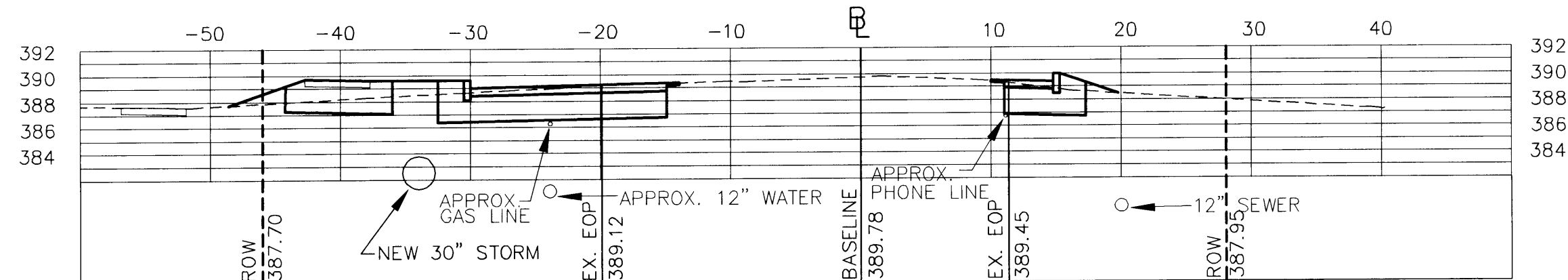
**RECORD DRAWINGS**  
 THIS RECORD DRAWING HAS BEEN PREPARED BY GRIFFIN INTERNATIONAL, INC. BASED ON BASE PLAN DESIGN DRAWINGS PROVIDED BY LAMOUREUX & DICKINSON, INC. CHANGES MADE TO THE DESIGN PLANS ARE INDICATED. THE INFORMATION PROVIDED REGARDING ANY DEVIATION FROM THE DESIGN PLANS ARE BASED ON RESIDENT ENGINEER NOTES AND MEASUREMENT OF ABOVEGROUND FEATURES.

**CONTRACT PLANS**  
 VERMONT AGENCY OF TRANSPORTATION  
 WILLISTON NHG 5500 (10)S  
 "TAFT CORNERS"  
 (US ROUTE 2 & VT ROUTE 2A)  
 WILLISTON VERMONT  
**CROSS SECTIONS**  
 (VT ROUTE 2A NORTH)  
 LAMOUREUX & DICKINSON  
 Consulting Engineers Inc.  
 14 Morse Drive  
 Essex Junction, VT 05452  
 (802) 878-4450  
 Engineers-Planners-Surveyors

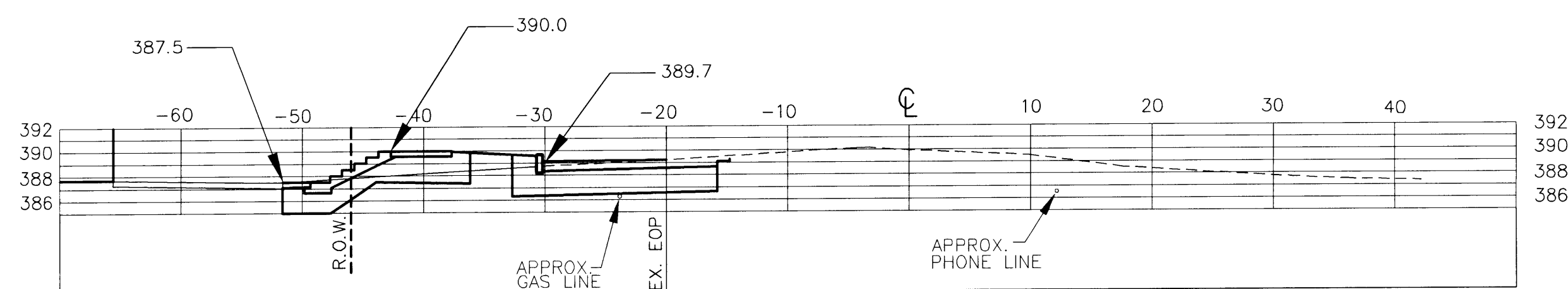
design	RJD/JLC
drawn	JLC
checked	RJD
scale	1"=10'
sht. no.	21



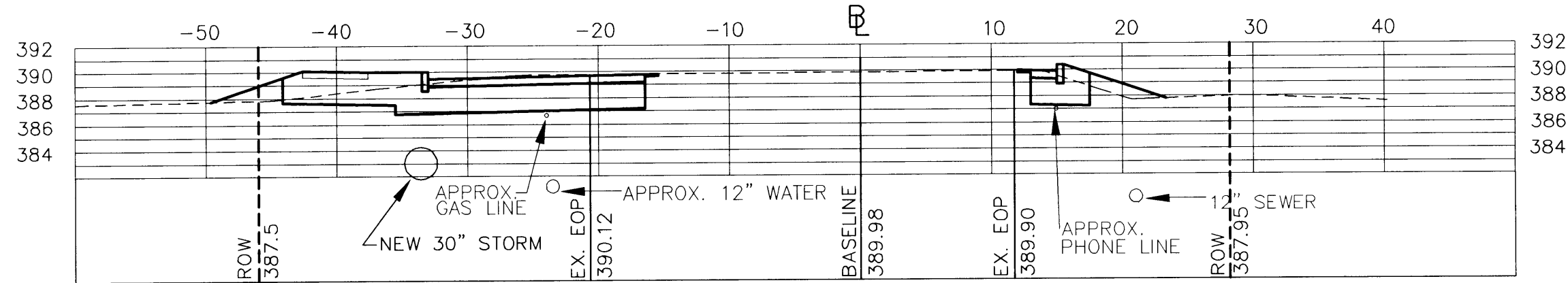
STA: 115+00



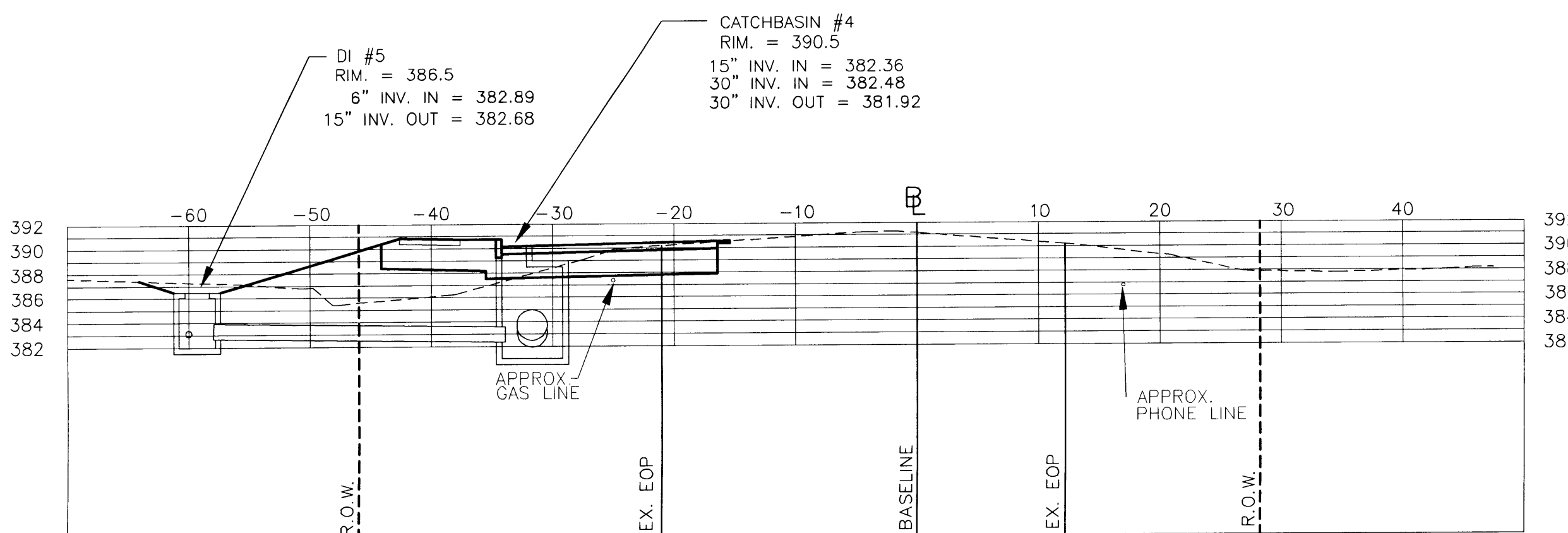
STA: 114+50



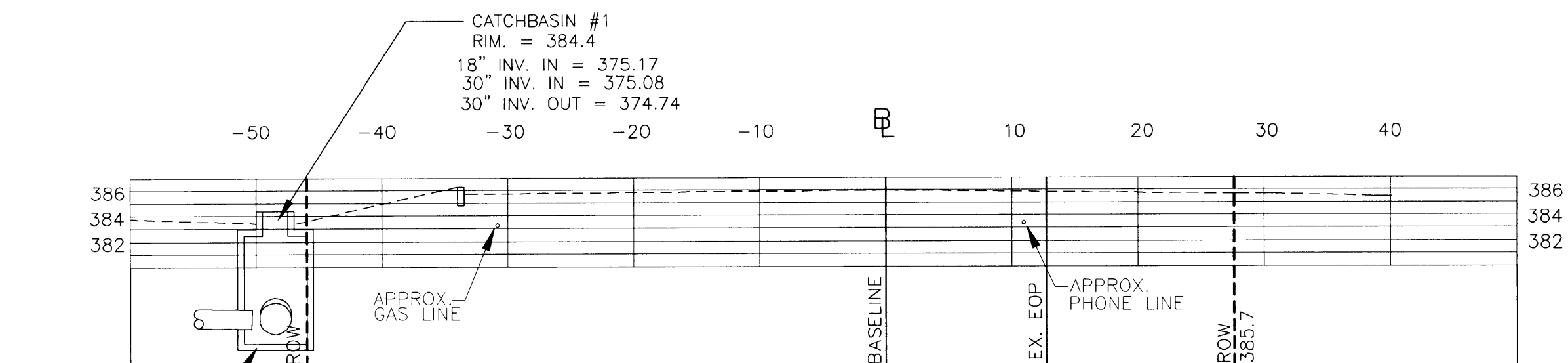
STA: 114+43



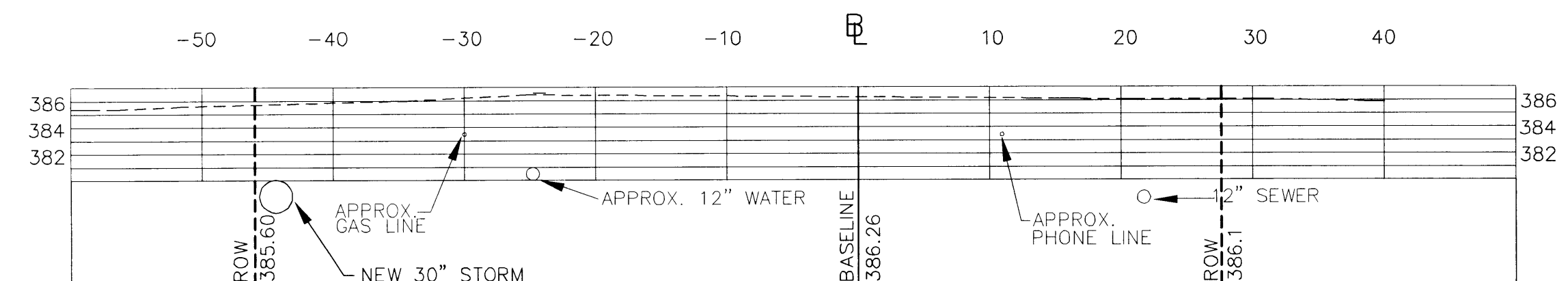
STA: 114+00



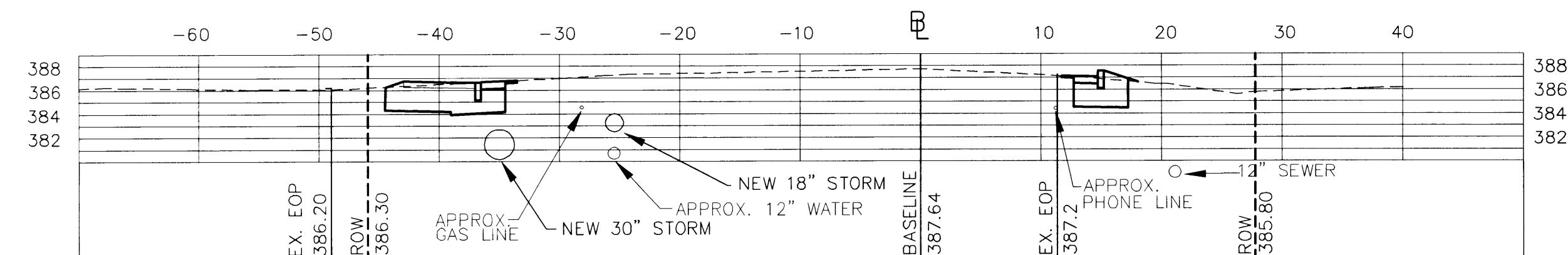
STA: 113+73



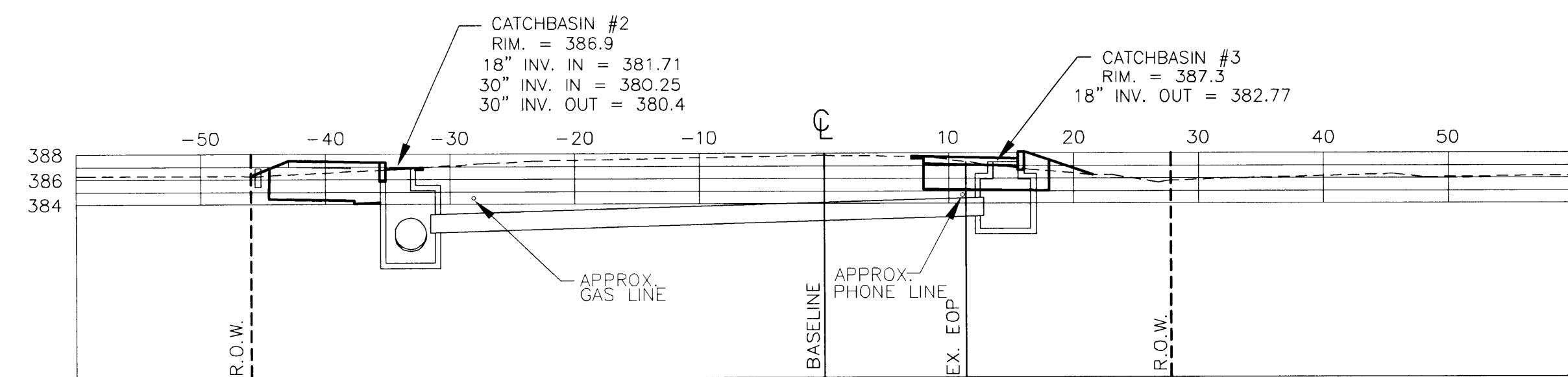
STA: 116+23



STA: 116+00



STA: 115+50



STA: 115+47

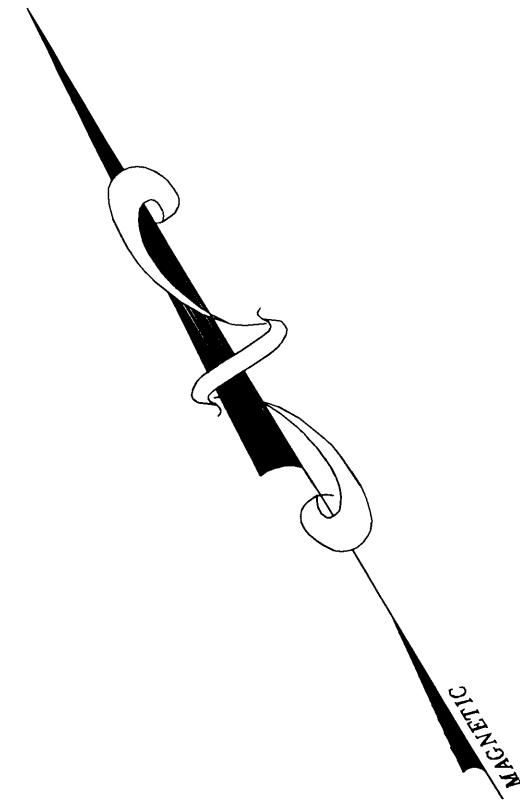
**RECORD DRAWINGS**  
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**CONTRACT PLANS**  
 VERMONT AGENCY OF TRANSPORTATION  
 WILLISTON NHG 5500 (10)S  
 "TAFT CORNERS"  
 (US ROUTE 2 & VT ROUTE 2A)  
 WILLISTON VERMONT

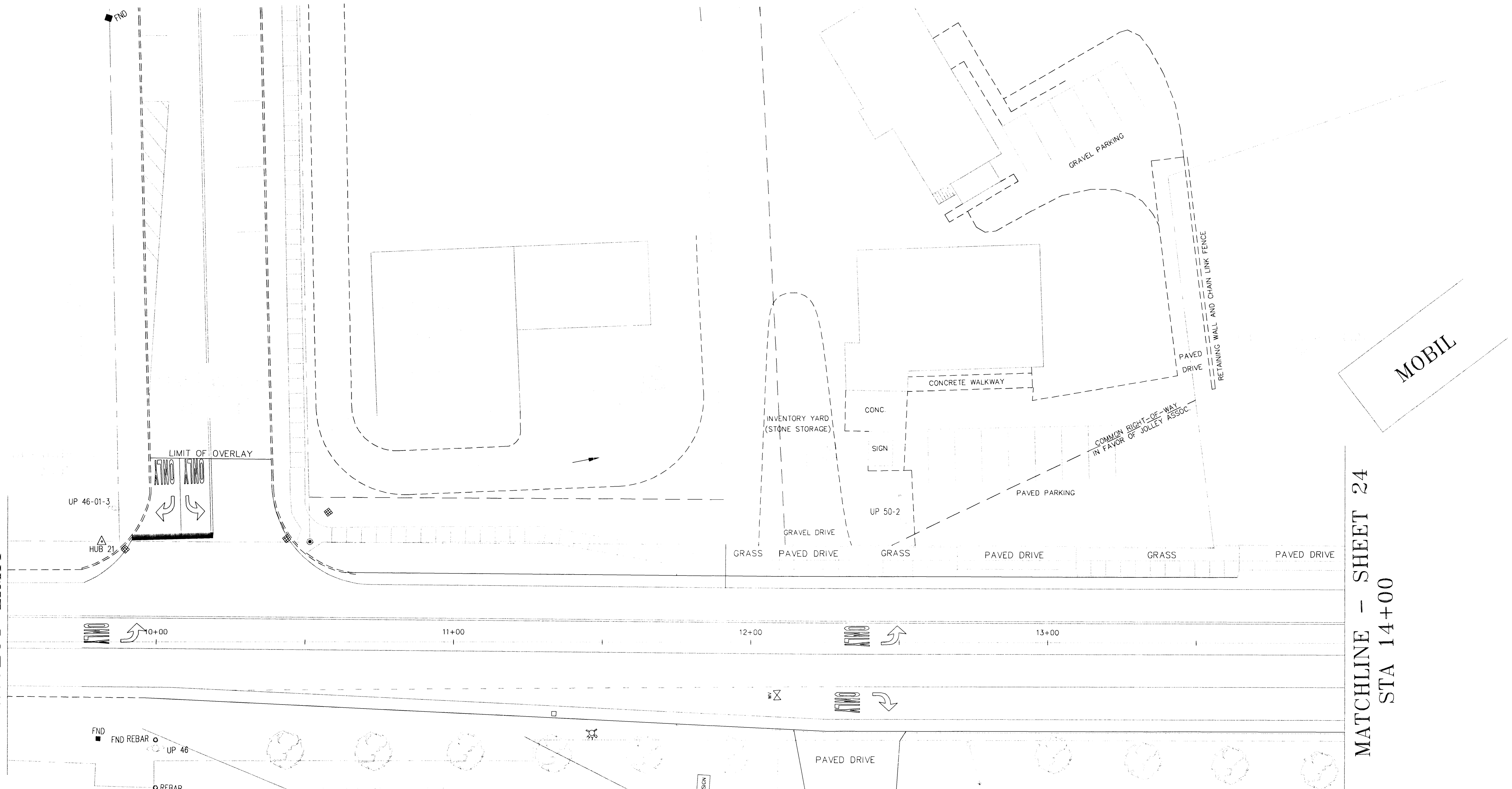
**CROSS SECTIONS**  
 (VT ROUTE 2A NORTH)

LAMOUREUX & DICKINSON  
 Consulting Engineers Inc.  
 14 Morse Drive  
 Essex Junction, VT 05452  
 (802) 878-4450  
 Engineers-Planners-Surveyors

design RJD/JLC  
 drawn JLC  
 checked RJD  
 scale 1"=10'  
 sht. no. 22



STA 9+50  
PROJECT LIMIT



MATCHLINE - SHEET 24  
STA 14+00

**DURABLE LETTER OR SYMBOL**

- 9+76 - 9+84 LT. (ONLY)
- 9+88 - 9+96 LT. (1 ARROW)
- 9+99 - 10+06 LT. (ONLY)
- 9+99 - 10+06 LT. (1 ARROW)
- 10+09 - 10+16 LT. (ONLY)
- 10+09 - 10+16 LT. (1 ARROW)
- 12+29 - 12+37 RT. (ONLY)
- 12+32 - 12+40 LT. (ONLY)
- 12+41 - 12+49 RT. (1 ARROW)
- 12+44 - 12+52 LT. (1 ARROW)

**DURABLE 4" WHITE LINE**

- 9+75 - 9+92 LT.
- 9+75 - 14+00 RT.
- 9+75 - 14+00 RT. (DOTTED)
- 10+26 - 12+29 RT. (DOTTED)
- 10+43 - 14+00 LT.
- 12+29 - 14+00 RT.

**DURABLE 4" YELLOW LINE**

- 9+75 - 14+00 LT. (DBL.)
- 10+18 - 10+19 LT. (DBL.)

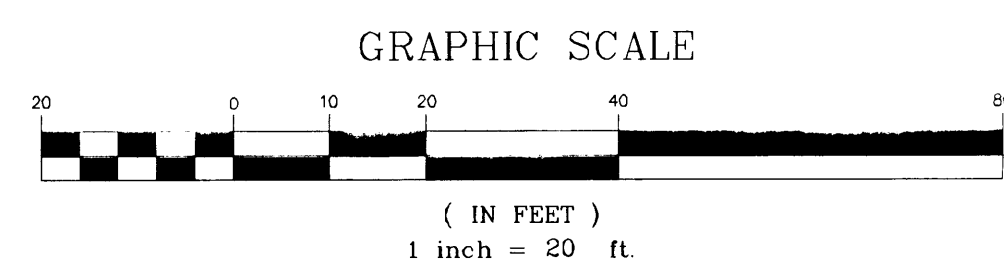
**DURABLE 24" STOP BAR**

- 9+92 - 10+19 LT.

**REMOVING SIGNS**

- 9 - AS SHOWN

NOTE: SIGNS SHOWN AS RETAINED OR SALVAGED MAY NEED TO BE REPLACED AT THE DISCRETION OF THE ENGINEER.



**CONTRACT PLANS**

**VERMONT AGENCY OF  
TRANSPORTATION**

**WILLISTON NHG 5500 (10)S  
"TAFT CORNERS"  
(US ROUTE 2 & VT ROUTE 2A)**

WILLISTON

VERMONT

**PAVEMENT MARKING &  
SIGN LAYOUT SHEET**

LAMOUREUX & DICKINSON  
Consulting Engineers Inc.  
14 Morse Drive  
Essex Junction, VT 05452  
(802) 878-4450  
Engineers-Planners-Surveyors

design  
RJD/JLC  
drawn  
DWE/JLC  
checked  
RJD  
scale  
1"=20'  
sht. no.

23

**RECORD DRAWINGS**  
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STA 111+00  
MATCHLINE - SHEET 28

89

89

STA 14+00  
MATCHLINE - SHEET 23

US ROUTE 2

CALVIN MORSE TAVERN

MATCHLINE - SHEET 27  
STA 107+00

MATCHLINE - SHEET 25  
STA 18+50

**DURABLE 24" STOP BAR**  
15+38 - 15+40 LT. & RT.  
15+49 - 15+51 RT.  
15+59 - 15+61 RT.  
16+73 - 16+75 LT.  
16+89 - 16+91 LT. & RT.  
16+99 - 17+01 RT.  
107+96 - 108+06 RT.  
108+22 - 108+31 RT.  
107+61 - 107+63 LT. & RT.  
109+23 - 109+25 LT.  
109+41 - 109+49 LT.  
109+45 - 109+47 LT.

**DURABLE 4" YELLOW LINE**  
14+00 - 15+40 LT. (DBL.)  
16+99 - 18+50 LT. (DBL.)  
107+00 - 107+63 LT. (DBL.)  
109+45 - 111+00 LT. (DBL.)

107+63 - 108+00 LT. (DBL., DOTTED)  
108+00 - 108+93 LT. (DBL., DOTTED, R=145')  
107+88 - 108+75 RT. (DBL., DOTTED, R=145')  
108+75 - 109+45 RT. (DBL., DOTTED)

**DURABLE LETTER OR SYMBOL**  
14+08 - 14+16 RT. (1 ARROW)  
15+24 - 15+32 RT. (ONLY)  
15+24 - 15+32 LT. (ONLY)  
15+37 - 15+45 RT. (1 ARROW)  
15+37 - 15+45 LT. (1 ARROW)  
17+06 - 17+14 LT. (1 ARROW)  
17+06 - 17+14 RT. (1 ARROW)  
17+18 - 17+26 LT. (ONLY)  
17+18 - 17+26 RT. (ONLY)  
107+38 - 107+46 LT. & RT. (ONLY)  
107+51 - 107+59 LT. & RT. (1 ARROW)  
109+51 - 109+59 LT. (1 ARROW)  
109+63 - 109+71 LT. (ONLY)

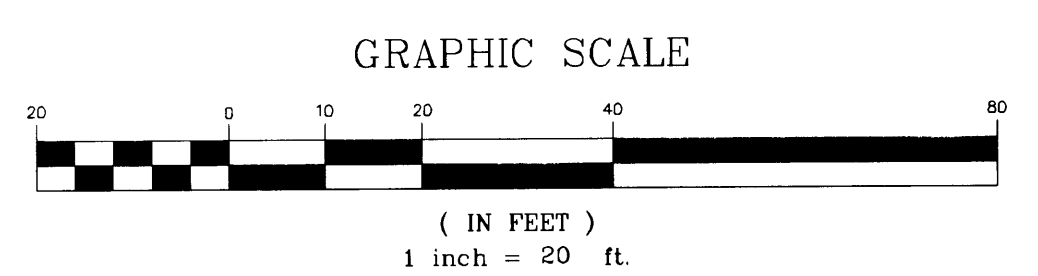
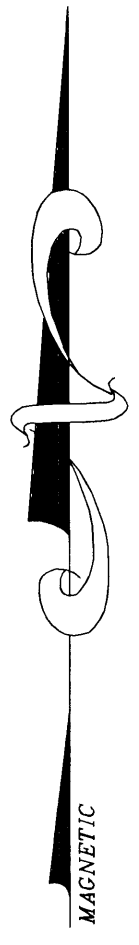
**DURABLE 4" WHITE LINE**  
14+00 - 14+50 LT.  
14+00 - 15+51 RT.  
14+00 - 15+61 RT.  
14+00 - 16+90 RT.  
14+85 - 18+50 LT.  
15+18 - 15+42 LT.  
15+18 - 15+72 LT.  
15+42 - 15+72 LT.  
16+51 - 17+36 RT.  
16+89 - 18+00 RT.  
16+73 - 18+50 LT.  
17+15 - 17+36 RT.  
17+38 - 18+50 RT.  
107+00 - 107+61 RT. (DASHED)  
107+00 - 107+67 LT. (DASHED)  
107+00 - 108+01 RT.  
109+25 - 111+00 LT. (DASHED)  
109+25 - 111+00 LT.

**DURABLE CROSSWALK WITH DIAGONAL LINES**  
15+20 - 15+41 LT.  
15+45 - 15+88 LT. & RT.  
16+86 - 16+95 LT. & RT.  
17+08 - 17+46 RT.  
107+67 - 107+75 LT. & RT.  
109+09 - 109+18 LT. & RT.

**DURABLE 8" WHITE LINE**  
107+19 - 107+40 RT.  
107+19 - 107+43 RT.  
107+88 - 108+01 RT.  
107+93 - 108+01 RT.  
108+90 - 108+97 LT.  
108+90 - 109+02 LT.  
109+27 - 109+41 LT.  
109+31 - 109+41 LT.

**REMOVING SIGNS**  
45 - AS SHOWN

NOTE: SIGNS SHOWN AS RETAINED OR SALVAGED MAY NEED TO BE REPLACED AT THE DISCRETION OF THE ENGINEER.



**RECORD DRAWINGS**  
THIS RECORD DRAWING HAS BEEN PREPARED BY GRIFFIN INTERNATIONAL, INC. BASED ON BASE PLAN DESIGN DRAWINGS PROVIDED BY LAMOUREUX & DICKINSON, INC. CHANGES MADE TO THE DESIGN PLANS ARE INDICATED. THE INFORMATION PROVIDED REGARDING ANY DEVIATION FROM THE DESIGN PLANS ARE BASED ON RESIDENT ENGINEER NOTES AND MEASUREMENT OF ABOVEGROUND FEATURES.

**CONTRACT PLANS**

REVISED	8/21/01	REVISED SB GUIDELINES	JLC
REVISED	8/14/01	PAVEMENT MARKINGS	JLC

**VERMONT AGENCY OF TRANSPORTATION**

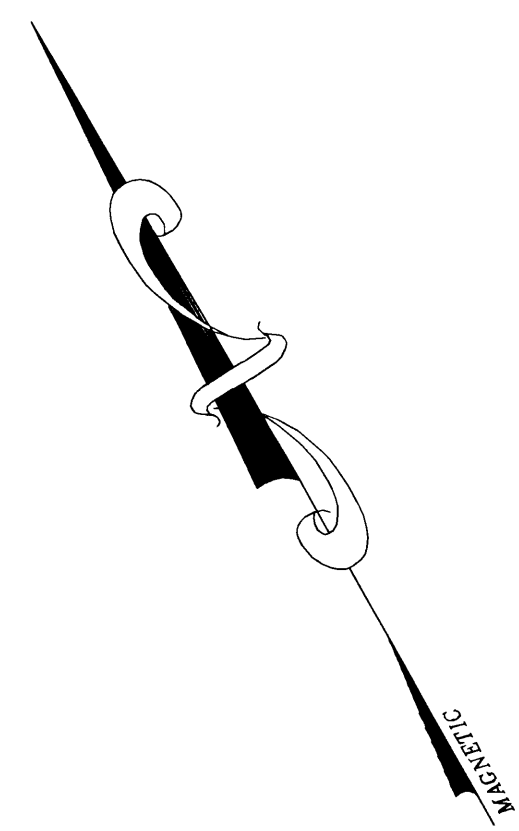
WILLISTON NHG 5500 (10S)  
"TAFT CORNERS"  
(US ROUTE 2 & VT ROUTE 2A)

WILLISTON VERMONT

**PAVEMENT MARKING & SIGN LAYOUT SHEET**

LAMOUREUX & DICKINSON  
Consulting Engineers Inc.  
14 Morse Drive  
Essex Junction, VT 05452  
(802) 878-4450  
Engineers-Planners-Surveyors

design  
RJD/JLC  
drawn  
DWE/JLC  
checked  
RJD  
scale  
1"=20'  
sht. no.  
**24**



STA 18+50  
MATCHLINE - SHEET 24

PROJECT LIMIT  
STA 23+00

DURABLE 4" WHITE LINE

- 18+50 - 19+05 RT.
- 18+50 - 19+06 LT.
- 18+50 - 19+10 LT.
- 19+08 - 19+26 RT. (DOTTED)
- 19+28 - 19+90 RT.
- 19+45 - 19+90 RT.
- 19+50 - 19+90 LT.
- 19+52 - 19+90 RT.

DURABLE 4" YELLOW LINE

- 18+50 - 18+60 RT. (DBL.)
- 18+60 - 19+10 RT.
- 18+60 - 19+10 RT. (DASHED)
- 18+60 - 19+10 RT.
- 18+60 - 19+10 RT. (DASHED)
- 19+50 - 19+90 RT. (DBL.)

DURABLE LETTER OR SYMBOL

- 18+70 - 18+78 RT. (1 ARROW)
- 18+75 - 18+83 LT. (1 ARROW)
- 18+87 - 18+95 LT. (ONLY)
- 19+00 - 19+08 RT. (1 ARROW)
- 19+60 - 19+68 RT. (1 ARROW)
- 18+72 - 18+80 RT. (ONLY)

TEMPORARY 4" YELLOW LINE

- 19+23 RT. (DBL.)

TEMPORARY 4" WHITE LINE

- 19+34 RT.

TEMPORARY 24" STOP BAR

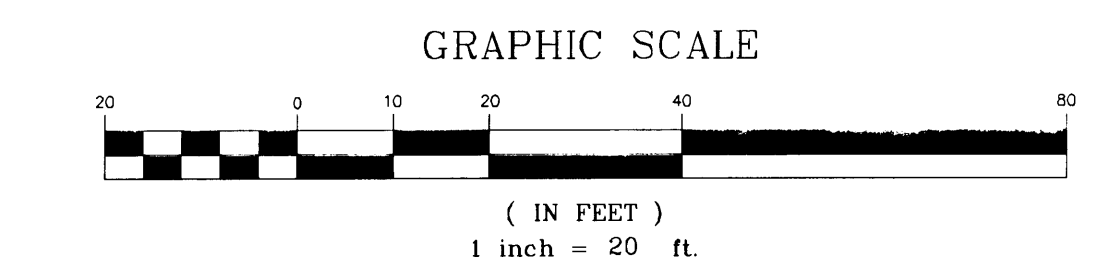
- 19+23 - 19+50 RT.
- 19+06 - 19+33 LT.

TEMPORARY LETTER OR SYMBOL

- 19+13 - 19+16 RT. (1 ARROW)
- 19+25 - 19+31 RT. (1 ARROW)
- 19+40 - 19+46 RT. (1 ARROW)

REMOVING SIGNS

- 7 - AS SHOWN

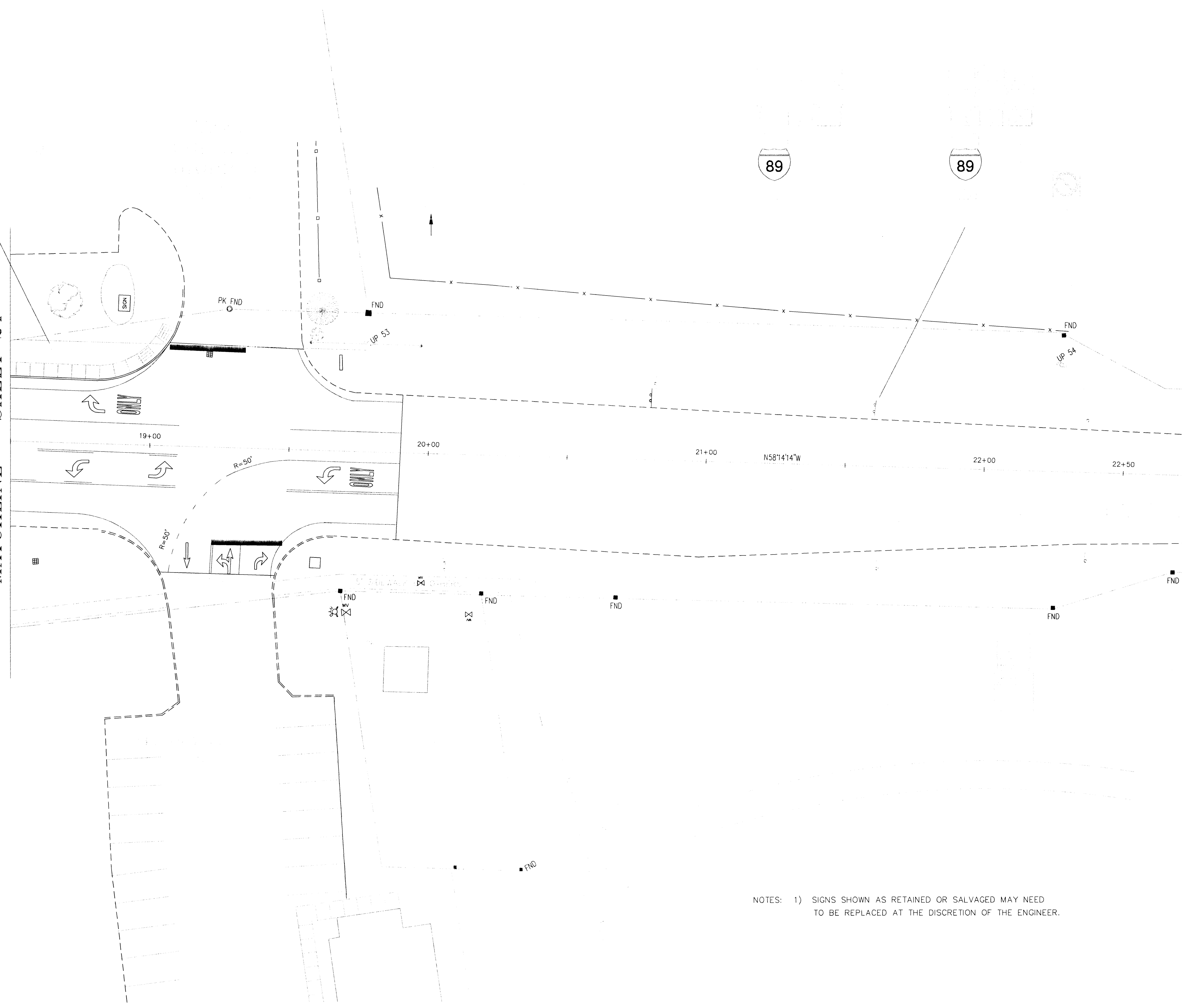


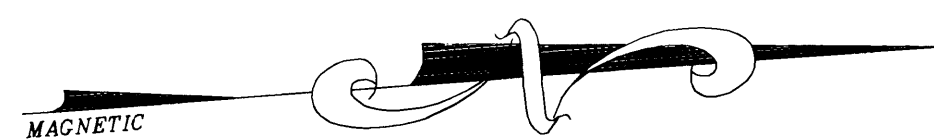
NOTES: 1) SIGNS SHOWN AS RETAINED OR SALVAGED MAY NEED TO BE REPLACED AT THE DISCRETION OF THE ENGINEER.

**CONTRACT PLANS**

REVISED	8/14/01	PAVEMENT MARKINGS	JLC
<b>VERMONT AGENCY OF TRANSPORTATION</b>			
<b>WILLISTON NHG 5500 (10)S</b>			
<b>"TAFT CORNERS"</b>			
(US ROUTE 2 & VT ROUTE 2A)			
WILLISTON			VERMONT
<b>PAVEMENT MARKING &amp; SIGN LAYOUT SHEET</b>			design RJD/JLC
			drawn DNE/JLC
			checked RJD
			scale 1"=20'
			sht. no. 25
LAMOUREUX & DICKINSON Consulting Engineers Inc. 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450 Engineers-Planners-Surveyors			

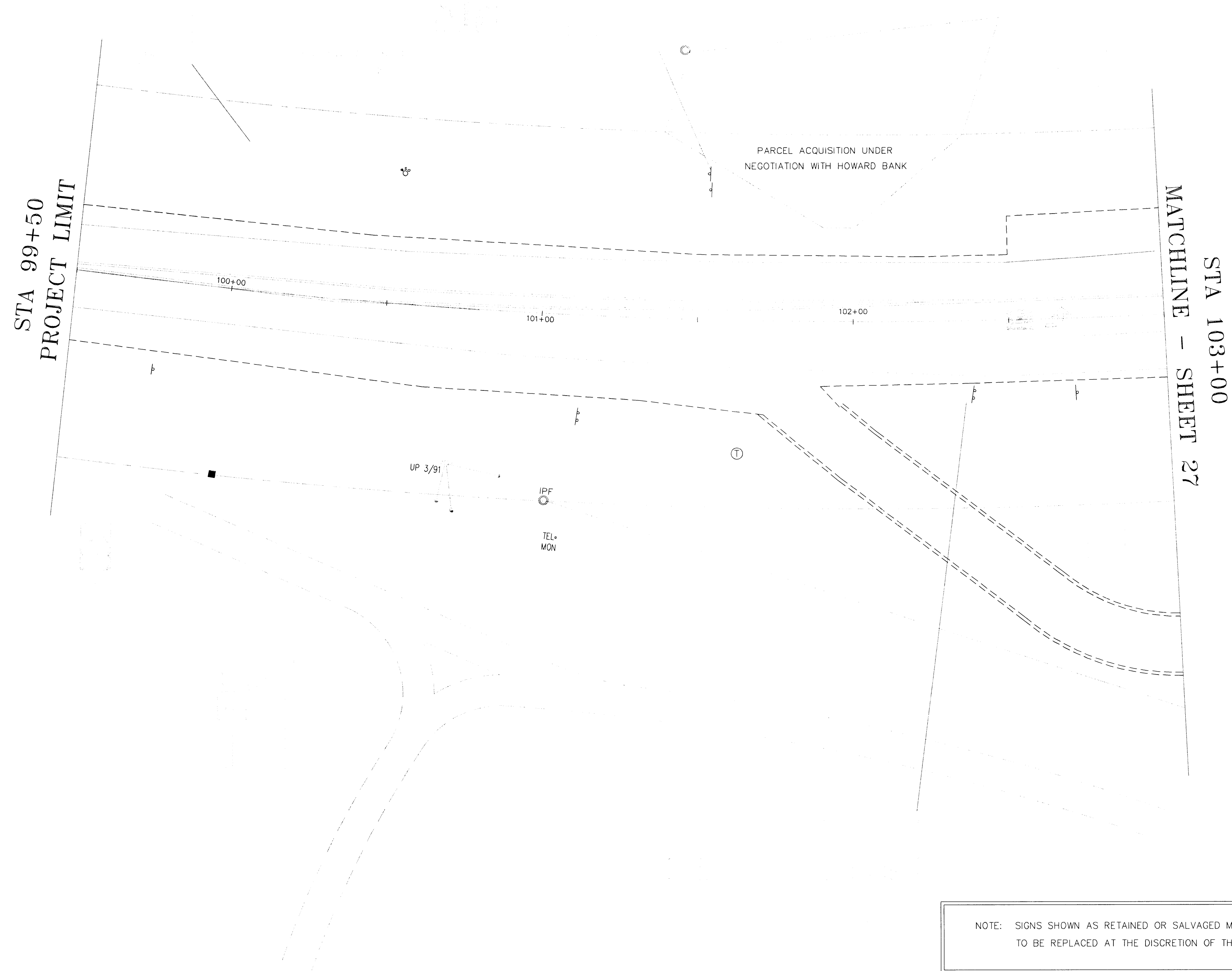
**RECORD DRAWINGS**  
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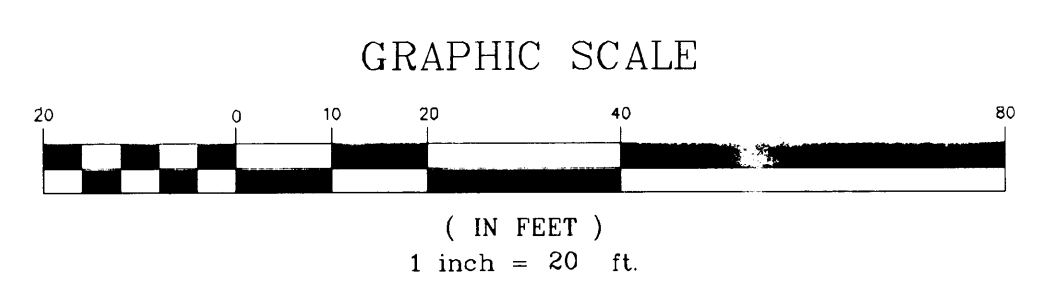


DURABLE 4" WHITE LINE  
 99+85 - 103+00 LT.  
 REMOVING SIGNS  
 4 - AS SHOWN

NOTE:  
 NEW PAVEMENT MARKINGS SHOWN BASED UPON REVISED  
 PROJECT LIMIT OF STA. 102+50.



NOTE: SIGNS SHOWN AS RETAINED OR SALVAGED MAY NEED  
 TO BE REPLACED AT THE DISCRETION OF THE ENGINEER.



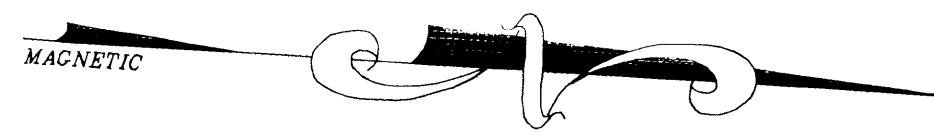
**RECORD DRAWINGS**  
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**CONTRACT PLANS**

**VERMONT AGENCY OF TRANSPORTATION**

**WILLISTON NHG 5500 (10)S**  
**"TAFT CORNERS"**  
 (US ROUTE 2 & VT ROUTE 2A)

WILLISTON	VERMONT
<b>PAVEMENT MARKING &amp; SIGN LAYOUT SHEET</b>	design RJD/JLC drawn DVE/JLC checked RJD scale 1"=20' sht. no. <b>26</b>
LAMOUREUX & DICKINSON Consulting Engineers Inc. 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450 Engineers-Planners-Surveyors	



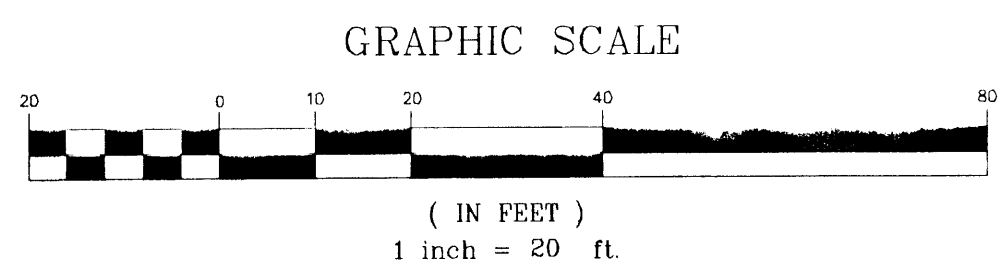
NOTE:  
NEW PAVEMENT MARKINGS SHOWN SOUTH OF STA. 105+12  
BASED ON REVISED PROJECT LIMIT OF STA. 102+50.

STA 103+00  
MATCHLINE - SHEET 26

MATCHLINE - SHEET 24  
STA 107+00

- DURABLE 4" WHITE LINE**  
103+00 - 103+97 LT.  
103+97 - 105+12 LT. (DOTTED)  
105+16 - 106+87 LT. (DASHED)  
105+12 - 107+00 LT.  
106+62 - 107+00 RT.  
106+62 - 107+00 RT.
- DURABLE LETTER OR SYMBOL**  
106+72 - 106+80 RT. (ONLY)  
106+84 - 106+92 RT. (1 ARROW)
- DURABLE 4" YELLOW LINE**  
106+62 - 107+00 LT. (DBL.)
- REMOVING SIGNS**  
10 - AS SHOWN

NOTE: SIGNS SHOWN AS RETAINED OR SALVAGED MAY NEED  
TO BE REPLACED AT THE DISCRETION OF THE ENGINEER.



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**CONTRACT PLANS**

**VERMONT AGENCY OF TRANSPORTATION**

**WILLISTON NHG 5500 (10)S "TAFT CORNERS"**  
(US ROUTE 2 & VT ROUTE 2A)

WILLISTON VERMONT

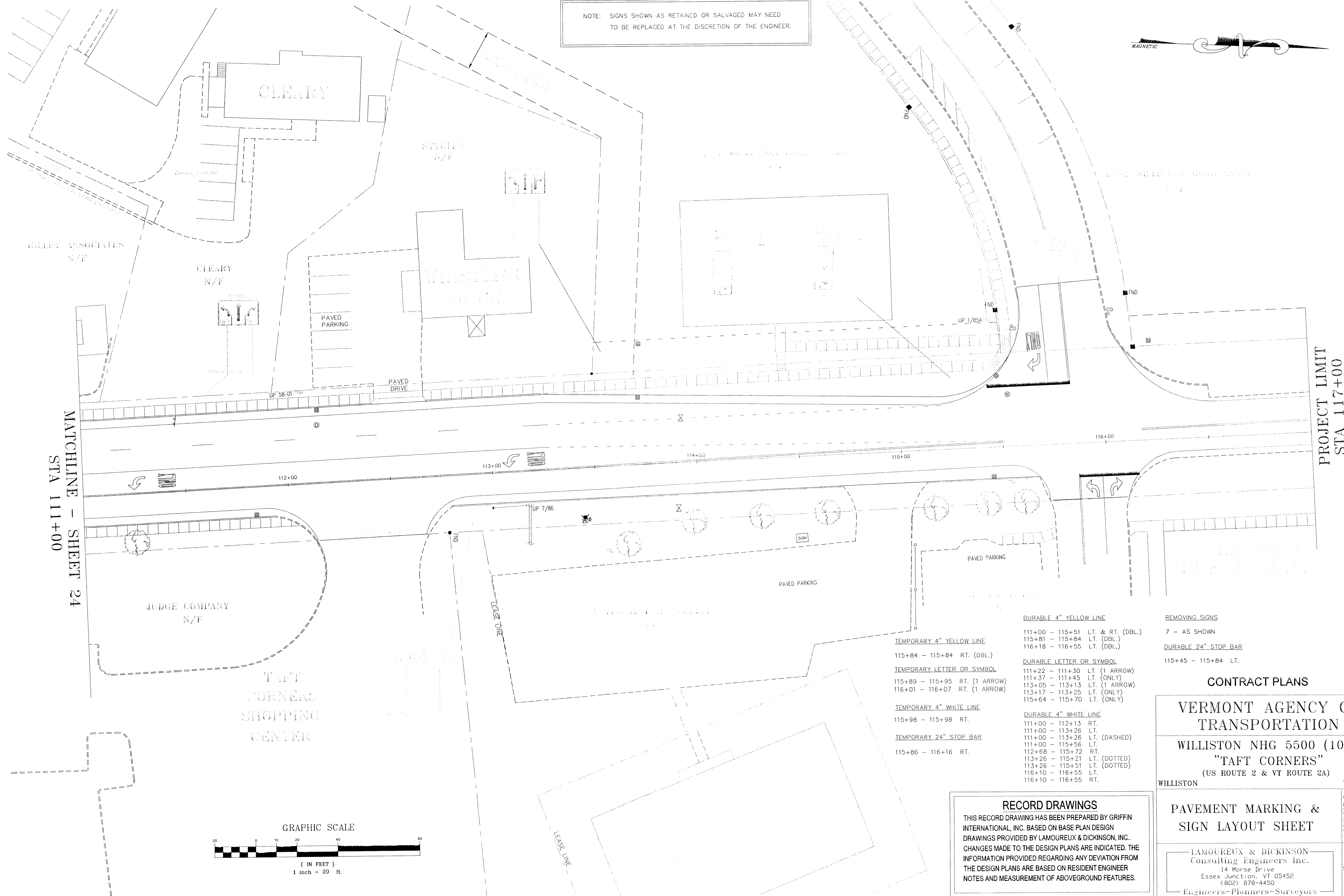
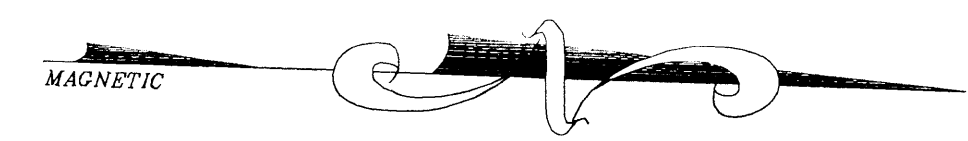
**PAVEMENT MARKING & SIGN LAYOUT SHEET**

LAMOUREUX & DICKINSON  
Consulting Engineers Inc.  
14 Morse Drive  
Essex Junction, VT 05452  
(802) 878-4450  
Engineers-Planners-Surveyors

design RJD/JLC  
drawn DWE/JLC  
checked RJD  
scale 1" = 20'  
sht. no. 27

DATE PLOTTED: 08/14/2018 10:00:00 AM

NOTE: SIGNS SHOWN AS RETAINED OR SALVAGED MAY NEED TO BE REPLACED AT THE DISCRETION OF THE ENGINEER.

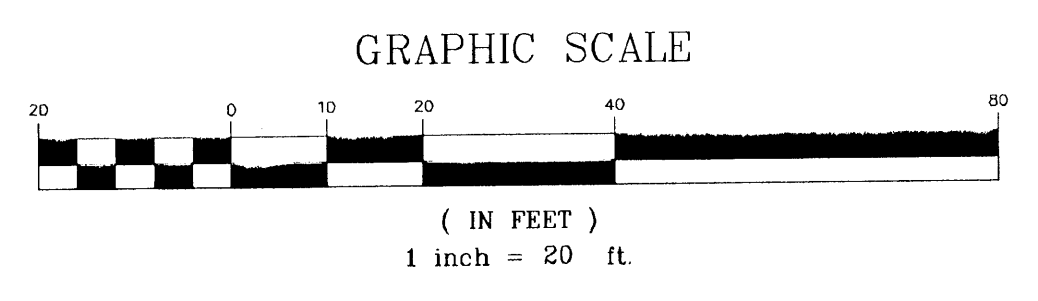


MATCHLINE - SHEET 24  
STA 111+00

PROJECT LIMIT  
STA 117+00

- TEMPORARY 4" YELLOW LINE**  
115+84 - 115+84 RT. (DBL.)
- TEMPORARY LETTER OR SYMBOL**  
115+89 - 115+95 RT. (1 ARROW)  
116+01 - 116+07 RT. (1 ARROW)
- TEMPORARY 4" WHITE LINE**  
115+98 - 115+98 RT.
- TEMPORARY 24" STOP BAR**  
115+86 - 116+16 RT.
- DURABLE 4" YELLOW LINE**  
111+00 - 115+51 LT. & RT. (DBL.)  
115+81 - 115+84 LT. (DBL.)  
116+18 - 116+55 LT. (DBL.)
- DURABLE LETTER OR SYMBOL**  
111+22 - 111+30 LT. (1 ARROW)  
111+37 - 111+45 LT. (ONLY)  
113+05 - 113+13 LT. (1 ARROW)  
113+17 - 113+25 LT. (ONLY)  
115+64 - 115+70 LT. (ONLY)
- DURABLE 4" WHITE LINE**  
111+00 - 112+13 RT.  
111+00 - 113+26 LT.  
111+00 - 113+26 LT. (DASHED)  
111+00 - 115+56 LT.  
112+68 - 115+72 RT.  
113+26 - 115+21 LT. (DOTTED)  
113+26 - 115+51 LT. (DOTTED)  
116+10 - 116+55 LT.  
116+10 - 116+55 RT.

- REMOVING SIGNS**  
7 - AS SHOWN
- DURABLE 24" STOP BAR**  
115+45 - 115+84 LT.



**RECORD DRAWINGS**  
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**CONTRACT PLANS**

**VERMONT AGENCY OF TRANSPORTATION**

**WILLISTON NHG 5500 (10)S "TAFT CORNERS"**  
(US ROUTE 2 & VT ROUTE 2A)

WILLISTON VERMONT

**PAVEMENT MARKING & SIGN LAYOUT SHEET**

LAMOUREUX & DICKINSON  
Consulting Engineers Inc.  
14 Morse Drive  
Essex Junction, VT 05452  
(802) 878-4450  
Engineers-Planners-Surveyors

design RJD/JLC  
drawn DWE/JLC  
checked RJD  
scale 1"=20'  
sht. no. 28

# TRAFFIC SIGN SUMMARY SHEET

SHEET NO.	STATION	SIGN LEGEND	NEW TYPE A TRAFFIC SIGNS			SALVAGED SIGNS EA	EXISTING POSTS EA	NEW SIGN POSTS				FOUNDATION FOR TUBULAR STEEL EA	SLEEVE FOR SQUARE STEEL EA	STANDARD DETAIL	
			SIGN ID CODE	SIGN DIMENSIONS	AREA SF			NUMBER OF POSTS	FLANGED	CHANNEL	2" X 2" SQUARE STEEL (OPTION)				3" DIA. TUBULAR STEEL
									2.0 lb/ft LF	3.0 lb/ft LF	LF				LB
23	9+93 RT	  	M3-1	24" X 12"	2.00								E-136B		
			M1-5	24" X 24"	4.00							2			
			M5-1	21" X 15"	2.19										
23	9+93 RT	  	M3-3	24" X 12"	2.00								E-136B		
			M1-5	24" X 24"	4.00										
			M5-1	21" X 15"	2.19										
23	11+22 RT		VR-932	48" X 30"	10.00			2		X	X		E-145B		
23	11+17 LT		R8-3A	12" X 12"	1.00								E-143		
23	11+22 RT		R8-3A	12" X 12"	1.00								E-143		
24	14+64 LT	  	M3-3	24" X 12"	2.00								E-136B		
			M1-5	24" X 24"	4.00			2			X	2			
			M6-1	21" X 15"	2.19										
24	14+64 LT	  										1			
														1	
															1
24	14+64 LT	    	M3-1	24" X 12"	2.00								E-136B		
			M1-5	24" X 24"	4.00										
			M6-1	21" X 15"	2.19										
24	14+64 LT	 										1			
														1	
															1
24	15+34 LT.		OM-1	18" X 18"	2.25						X		E-150		
24	15+45 LT.		OM-1	18" X 18"	2.25						X		E-150		
24	15+60 LT.		OM-1	18" X 18"	2.25						X		E-150		
24	17+07 RT	  	M3-1	24" X 12"	2.00								E-136B		
			M1-5	24" X 24"	4.00			2			X	2			
			M6-1	21" X 15"	2.19										
24	17+07 RT	  										1			
														1	
															1
24	17+07 RT	  	M3-3	24" X 12"	2.00								E-136B		
			M1-5	24" X 24"	4.00										
			M6-1	21" X 15"	2.19										

SHEET NO.	STATION	SIGN LEGEND	NEW TYPE A TRAFFIC SIGNS			SALVAGED SIGNS EA	EXISTING POSTS EA	NEW SIGN POSTS				FOUNDATION FOR TUBULAR STEEL EA	SLEEVE FOR SQUARE STEEL EA	STANDARD DETAIL							
			SIGN ID CODE	SIGN DIMENSIONS	AREA SF			NUMBER OF POSTS	FLANGED	CHANNEL	2" X 2" SQUARE STEEL (OPTION)				3" DIA. TUBULAR STEEL						
									2.0 lb/ft LF	3.0 lb/ft LF	LF				LB						
24	15+97 RT	 											1								
															1						
																1					
24	16+76 RT.		OM-1	18" X 18"	2.25							X		E-150							
24	17+06 RT.		OM-1	18" X 18"	2.25							X		E-150							
24	17+18 RT.		OM-1	18" X 18"	2.25							X		E-150							
25	18+64 LT		VR-932	48" X 30"	10.00			2		X	X			E-145B							
25	22+59 LT	  	M3-1	24" X 12"	2.00								2	E-136B							
			M1-5	24" X 24"	4.00																
			M5-1	21" X 15"	2.19																
25	22+59 LT	  	M3-3	24" X 12"	2.00									E-136B							
			M1-5	24" X 24"	4.00																
			M5-1	21" X 15"	2.19																
SHEET TOTALS					101.02 SF					12 EA					0 LF	48 LF	60 LF 48 LF OPTIONAL	335 LB	4 EA	6 EA	

NOTE: FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD.  
 POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED  
 ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S  
 "SIGN POST DESIGN GUIDELINE".

### CONTRACT PLANS

<b>VERMONT AGENCY OF TRANSPORTATION</b>	
WILLISTON NHG 5500 (10)S "TAFT CORNERS" (US ROUTE 2 & VT ROUTE 2A)	
WILLISTON	VERMONT
<b>SIGN SUMMARY SHEET</b> US ROUTE 2	
LAMOUREUX & DICKINSON Consulting Engineers Inc. 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450 Engineers-Planners-Surveyors	
desi gn RJD drawn JLC checked RJD scale NTS sht. no.	29

# TRAFFIC SIGN SUMMARY SHEET

SHEET NO.	STATION	SIGN LEGEND	NEW TYPE A TRAFFIC SIGNS			SALVAGED SIGNS EA	EXISTING POSTS RETAIN EA	NEW SIGN POSTS				FOUNDATION FOR TUBULAR STEEL EA	STANDARD DETAIL	
			SIGN ID CODE	SIGN DIMENSIONS	AREA SF			NUMBER OF POSTS	FLANGED	CHANNEL	2" x 2"			3" DIA.
									2.0 lb/ft LF	3.0 lb/ft LF	SQUARE STEEL (OPTION) LF			TUBULAR STEEL LB
26	100+01 LT.					2								
26	100+43 RT.		M3-1	24" X 12"	2.00									
			M1-5	24" X 24"	4.00		2							E-136B
			M6-3	21" X 15"	2.19									
26	101+54 LT.					1				X	X			E-143
27	103+74 RT.		R8-3A	12" X 12"	1.00									E-143
27	105+12 LT.		W4-2	48" X 48"	16.00			2		X	X			E-151
27	105+71 RT.		R8-3A	12" X 12"	1.00		1							E-143
27	106+23 LT.		M3-3	24" X 12"	2.00									
			M1-5	24" X 24"	4.00		1							E-136B
			M4-5	24" X 12"	2.00									
27	106+82 RT.		M3-1	24" X 12"	2.00									
			M1-5	24" X 24"	4.00		2							E-136B
			M6-3	21" X 15"	2.19									
24	107+88 LT		VR-923	30" X 30"	6.25			1		X	X			E-145A
24	107+88 LT		R8-3A	12" X 12"	1.00									E-143
24	108+27 LT.					1								
						1								
			M5-1	21" X 15"	2.19									
24	108+27 LT.		M3-3	24" X 12"	2.00									
			M1-5	24" X 24"	4.00			2			X	2		E-136B
			M6-3	21" X 15"	2.19									
24	108+27 LT.					1								
						1								
			M6-1	21" X 15"	2.19									
24	108+27 LT.					1								
						1								
						1								
24	109+52 RT.		M3-1	24" X 12"	2.00					X	X			E-136B
			M1-5	24" X 24"	4.00			1						

SHEET NO.	STATION	SIGN LEGEND	NEW TYPE A TRAFFIC SIGNS			SALVAGED SIGNS EA	EXISTING POSTS RETAIN EA	NEW SIGN POSTS				FOUNDATION FOR TUBULAR STEEL EA	STANDARD DETAIL	
			SIGN ID CODE	SIGN DIMENSIONS	AREA SF			NUMBER OF POSTS	FLANGED	CHANNEL	2" x 2"			3" DIA.
									2.0 lb/ft LF	3.0 lb/ft LF	SQUARE STEEL (OPTION) LF			TUBULAR STEEL LB
28	113+57 LT.		VR-934	48" X 30"	10.00			2		X	X			E-145B
28	115+28 LT.					3		2		X	X			
28	115+28 LT.					1								
						1								
						1								
SHEET TOTALS					78.20 SF	15 EA			0 LF	150 LF	150 LF OPTIONAL	168 LB	2 EA	

NOTE: FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD.  
 POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED  
 ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S  
 "SIGN POST DESIGN GUIDELINE".

**CONTRACT PLANS**

**VERMONT AGENCY OF TRANSPORTATION**

WILLISTON NHG 5500 (10)S  
 "TAFT CORNERS"  
 (US ROUTE 2 & VT ROUTE 2A)

WILLISTON VERMONT

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SIGN SUMMARY SHEET  
 VT ROUTE 2A

LAMOUREUX & DICKINSON  
 Consulting Engineers Inc.  
 14 Morse Drive  
 Essex Junction, VT 05452  
 (802) 878-4450  
 Engineers-Planners-Surveyors

desi gn RJD

drawn JLC

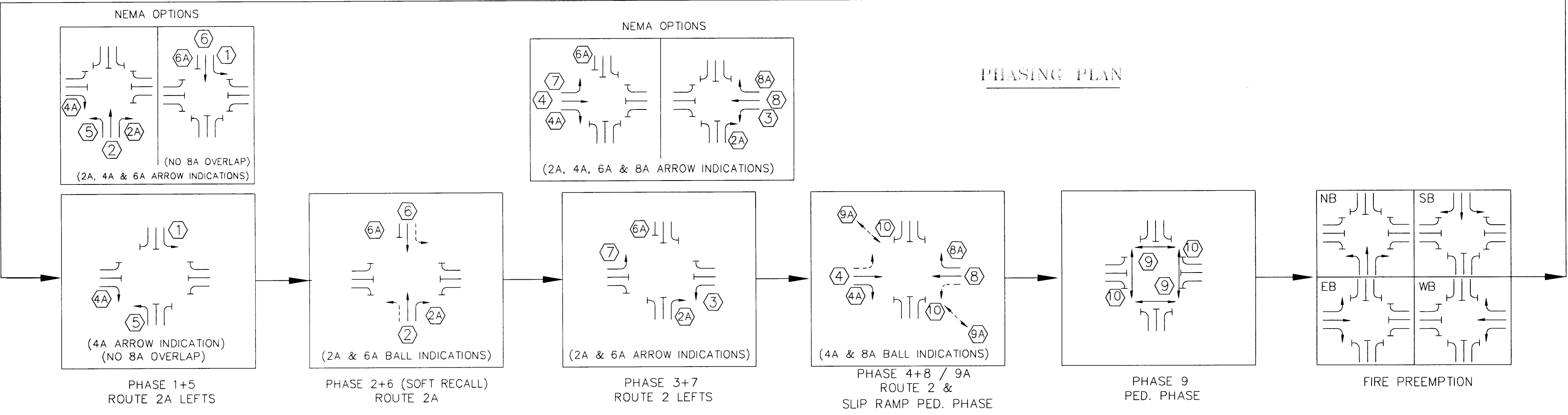
checked RJD

scale NTS

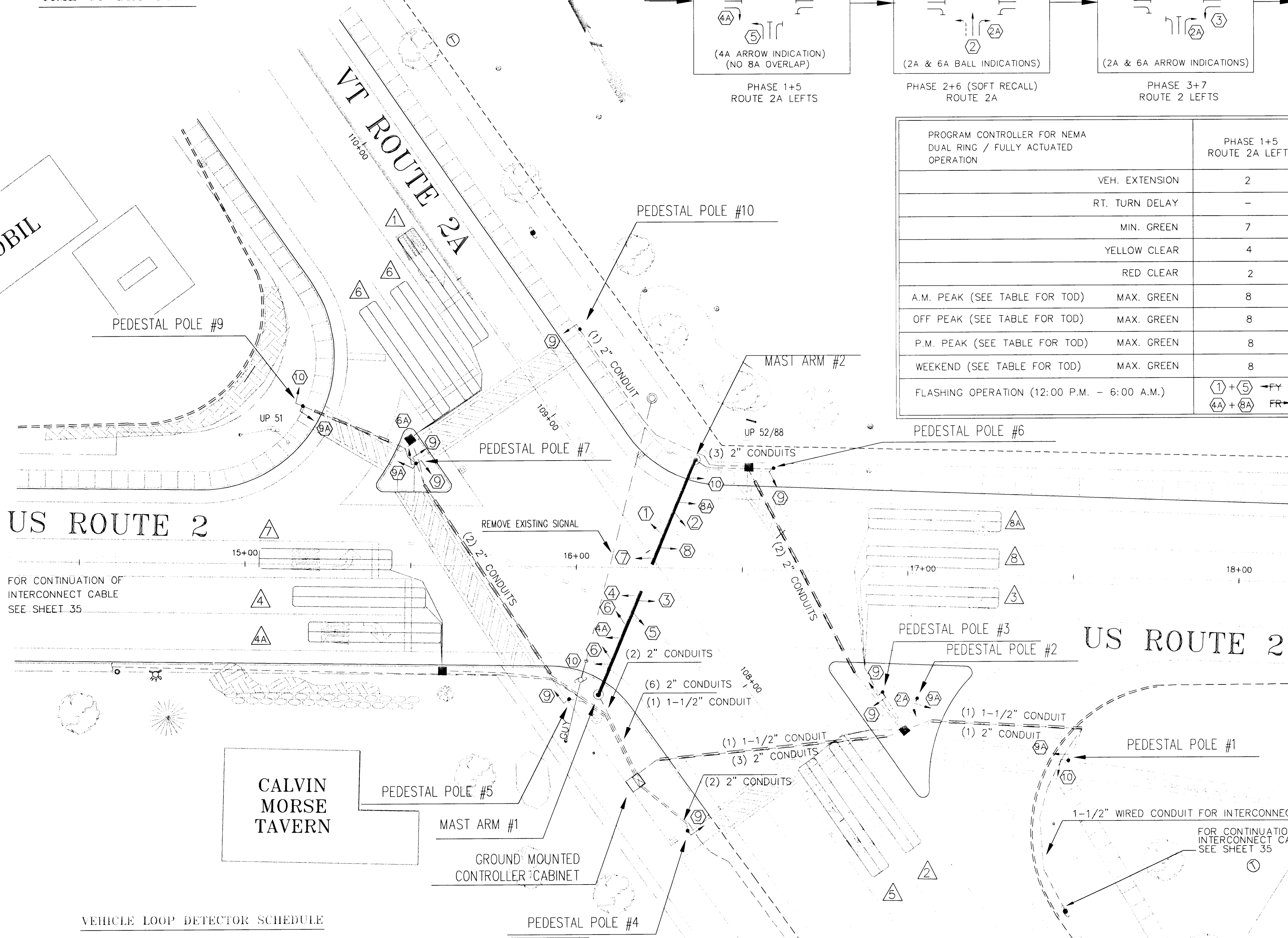
sh. no. 30

	12AM	1	2	3	4	5	6	7	8	9	10	11	12PM	1	2	3	4	5	6	7	8	9	10	11	12AM
MONDAY	FLASH							AM					OFF								PM				OFF
TUESDAY	FLASH							AM					OFF								PM				OFF
WEDNESDAY	FLASH							AM					OFF								PM				OFF
THURSDAY	FLASH							AM					OFF								PM				OFF
FRIDAY	FLASH							AM					OFF								PM				WEEKEND
SATURDAY	FLASH																								WEEKEND
SUNDAY	FLASH																								WEEKEND

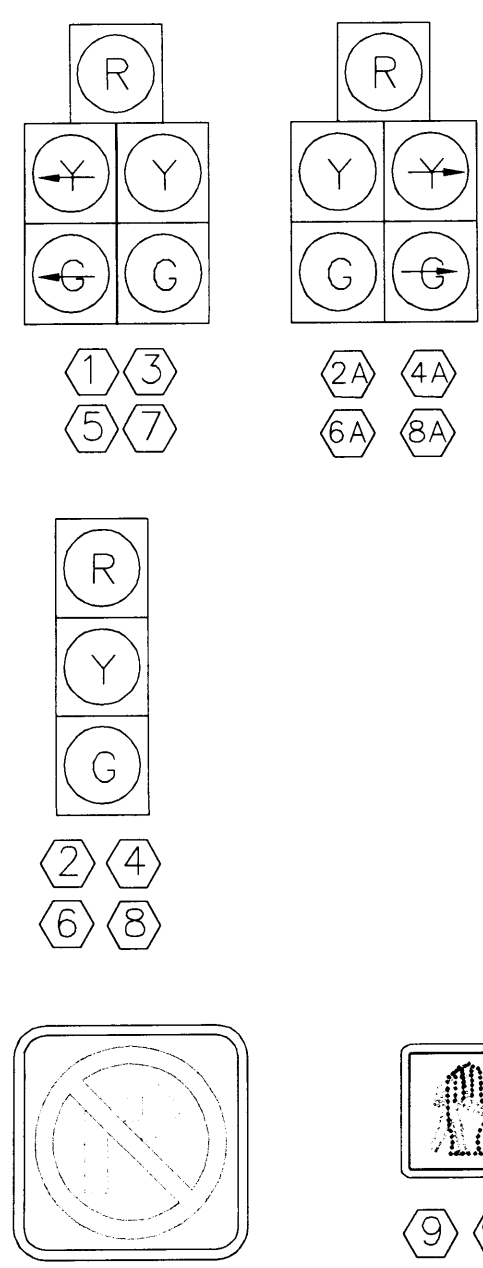
TIME OF DAY PLAN



PROGRAM CONTROLLER FOR NEMA DUAL RING / FULLY ACTUATED OPERATION	PHASE 1+5 ROUTE 2A LEFTS	PHASE 2+6 ROUTE 2A	PHASE 3+7 ROUTE 2 LEFTS	PHASE 4+8 ROUTE 2	PHASE 9 PEDESTRIAN	FIRE PREEMPTION
VEH. EXTENSION	2	2	2	2	-	-
RT. TURN DELAY	-	-	-	5	-	-
MIN. GREEN	7	10	7	10	-	-
YELLOW CLEAR	4	4	4	4	10 NRTOR	4
RED CLEAR	2	2	2	2	MAN (WALK) FLASHING HAND	2
A.M. PEAK (SEE TABLE FOR TOD)	MAX. GREEN 8	27	8	23	4 16 2	15
OFF PEAK (SEE TABLE FOR TOD)	MAX. GREEN 8	25	8	25	4 16 2	15
P.M. PEAK (SEE TABLE FOR TOD)	MAX. GREEN 8	25	8	25	4 16 2	15
WEEKEND (SEE TABLE FOR TOD)	MAX. GREEN 8	27	8	23	4 16 2	15
FLASHING OPERATION (12:00 P.M. - 6:00 A.M.)	(1)+(5) ←FY (4A)+(8A) FR→	(2)+(6) FY	(3)+(7) ←FR	(4)+(8) FR	BLANK	-



SIGNAL HEADS



FOR CONTINUATION OF INTERCONNECT CABLE SEE SHEET 35

PULL BOX  
15+50 LT  
16+52 LT  
107+65 RT

JUNCTION BOX  
13+00 RT  
15+60 RT

AM	OFF	PM	DHV*
53	130	139	187
109	267	408	568
117	150	194	285

AM	OFF	PM	DHV*
153	233	414	166
487	375	494	362
126	139	113	96

\* 2004, WITH MAPLE TREE PLACE

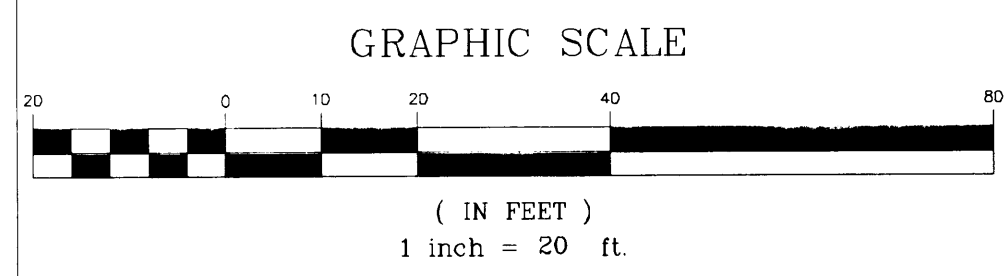
- NOTES:
- FINAL FIRE PREEMPTION SETTINGS TO BE ESTABLISHED IN CONJUNCTION WITH TOWN FIRE DEPT.
  - PEDESTRIAN PUSH BUTTONS ON PEDESTAL POLES #1, #2, #8 & #9 TO ACTIVATE ONLY PHASE 9A (SLIP RAMP PED PHASE). ALL OTHER PED PUSH BUTTONS TO ACTIVATE PHASE 9.
  - FIBER OPTIC "NO RIGHT TURN ON RED" SIGNS SHALL BEGIN DURING ALL RED PERIOD PRIOR TO PEDESTRIAN PHASE.
  - VEHICLE DETECTOR LOOPS SHALL BE INSTALLED BEFORE PAVEMENT OVERLAY IS PLACED.
  - CROSSWALK MARKINGS SHALL NOT BE PLACED UNTIL PEDESTRIAN SIGNAL IS OPERATIONAL.

VEHICLE LOOP DETECTOR SCHEDULE

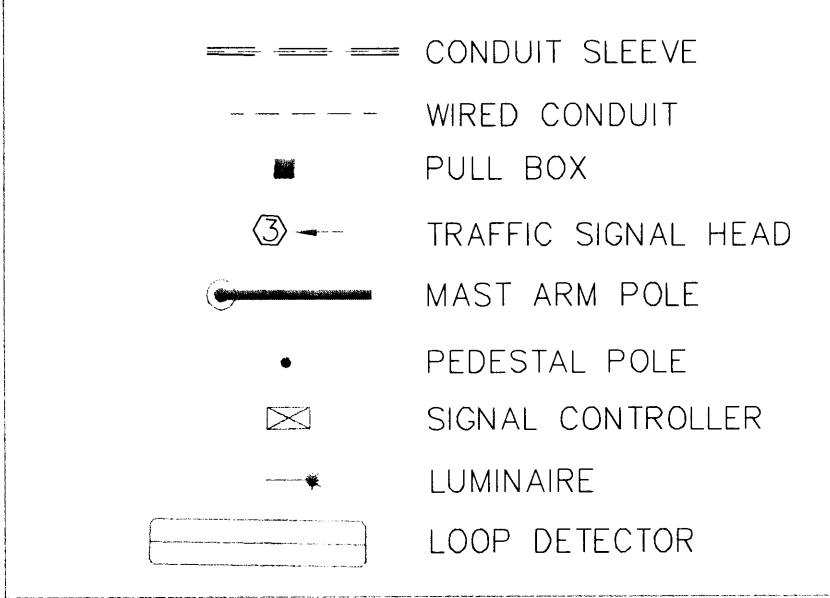
LANE	LOOP #	SIZE	TYPE	# OF TURNS	CALL PHASE	MODE	INDUCTANCE (uH)		RESISTANCE (ohms)		LEAKAGE TO GROUND (m-ohms)
							CALC.	MEAS.	CALC.	MEAS.	
SB LT	1	6' X 40'	LONG	2	1 + 5	PRES.	383		1.14		
NB TH	2	6' X 40'	LONG	2	2 + 6	PRES.	369		0.96		
WB LT	3	6' X 40'	LONG	2	3 + 7	PRES.	398		1.33		
EB TH	4	6' X 40'	LONG	2	4 + 8	PRES.	363		0.88		
EB RT	4A	6' X 40'	LONG	2	4 + 8	PRES.*	359		0.83		
NB LT	5	6' X 40'	LONG	2	1 + 5	PRES.	371		0.98		
SB TH/RT	6	6' X 40'	LONG	2	2 + 6	PRES.	372		0.99		
SB TH	6	6' X 40'	LONG	2	2 + 6	PRES.	374		1.03		
EB LT	7	6' X 40'	LONG	2	3 + 7	PRES.	364		0.90		
WB TH	8	6' X 40'	LONG	2	4 + 8	PRES.	396		1.30		
WB RT	8A	6' X 40'	LONG	2	4 + 8	PRES.*	393		1.27		

\* DELAY ON RIGHT TURN LOOP

**RECORD DRAWINGS**  
THIS RECORD DRAWING HAS BEEN PREPARED BY GRIFFIN INTERNATIONAL, INC. BASED ON BASE PLAN DESIGN DRAWINGS PROVIDED BY LAMOUREUX & DICKINSON, INC. CHANGES MADE TO THE DESIGN PLANS ARE INDICATED. THE INFORMATION PROVIDED REGARDING ANY DEVIATION FROM THE DESIGN PLANS ARE BASED ON RESIDENT ENGINEER NOTES AND MEASUREMENT OF ABOVEGROUND FEATURES.



TRAFFIC SIGNAL LEGEND



CONTRACT PLANS

REVISED: 02/13/02	REVISED PHASING PLAN	JLC
REVISED: 08/14/01	REVISED PAVE. MARKS. / LOOPS	JLC
REVISED: 07/11/01	MODIFIED NORTHWEST ISLAND	RJD
REVISED: 01/30/01	AS PER ADDENDUM 1	JLC

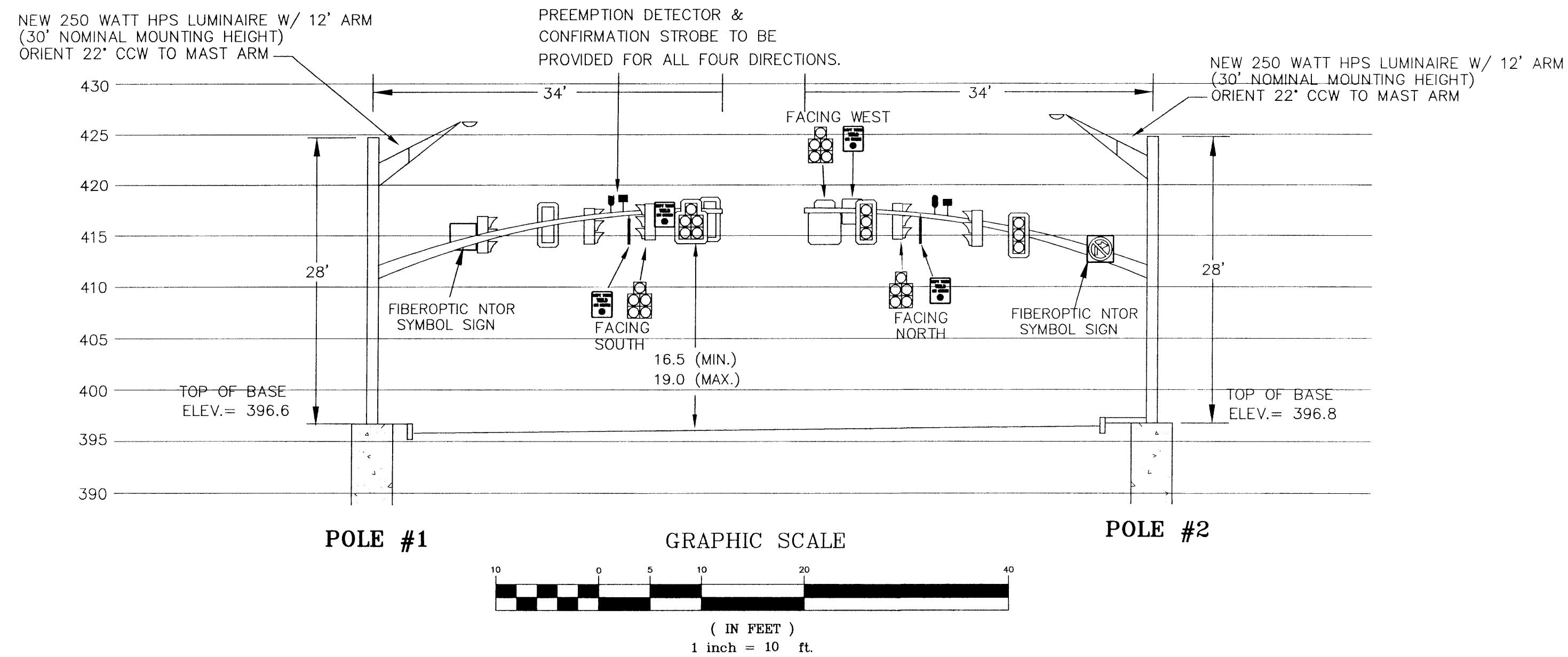
VERMONT AGENCY OF TRANSPORTATION  
WILLISTON NHG 5500 (10)S "TAFT CORNERS"  
(US ROUTE 2 / VT ROUTE 2A)

**MAST ARM DESIGN SIGNAL LAYOUT PLAN**

LAMOUREUX & DICKINSON  
Consulting Engineers Inc.  
14 Morse Drive  
Essex Junction, VT 05452  
(802) 878-4450

design RJD/JLC  
drawn JLC  
checked RJD  
scale 1"=20'  
sht. no. 31

**WESTBOUND VIEW - CROSS SECTION**



**TRAFFIC CONTROL NOTES**

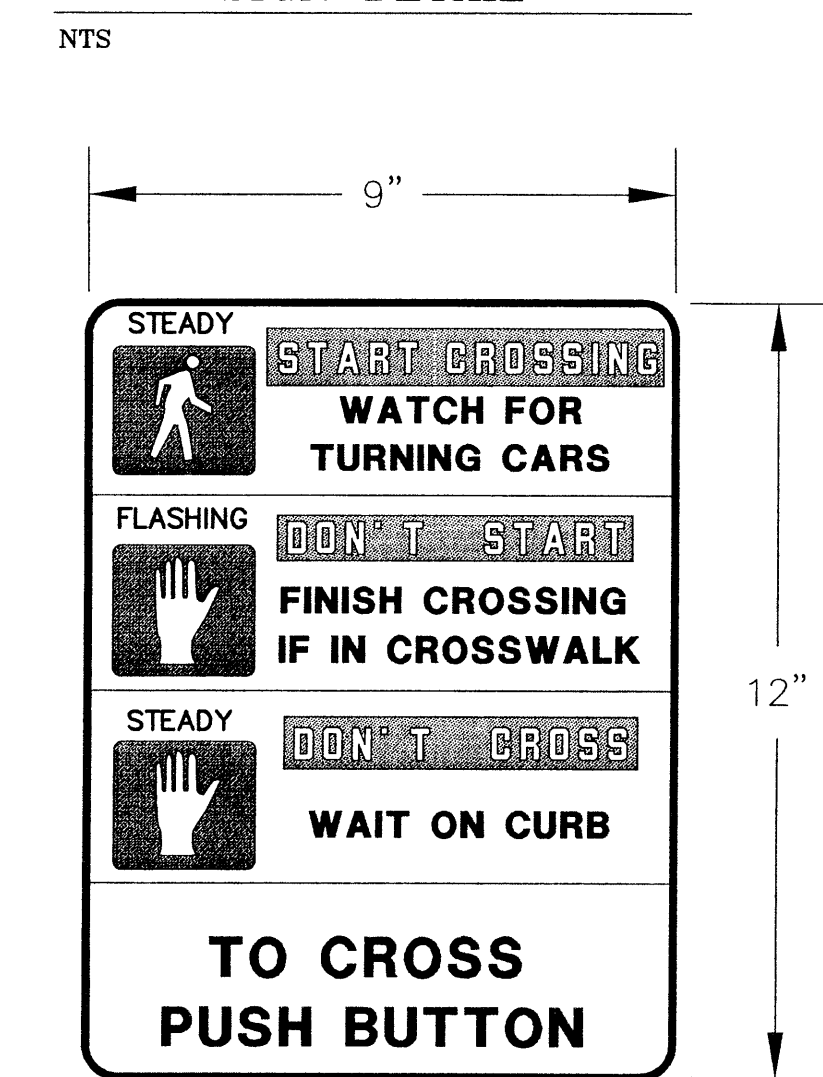
1. FOR ANY WORK WITHIN THE HIGHWAY RIGHT-OF-WAY A MINIMUM OF TWO-WAY THRU TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. CONTINUOUS TWO-WAY TRAFFIC SHALL BE MAINTAINED AT NIGHT, ON WEEKENDS AND HOLIDAYS, DURING PEAK TRAFFIC AND WHENEVER POSSIBLE DURING CONSTRUCTION. AN UNIFORMED TRAFFIC CONTROL OFFICER SHALL DIRECT TRAFFIC WHENEVER A LANE CLOSURE IS REQUIRED AND DURING PEAK HOURS WHEN DEEMED NECESSARY BY THE TOWN OR STATE.
2. TRAFFIC CONTROL SIGNING AND CHANNELIZING DEVICES SHALL BE IN ACCORDANCE WITH THE APPROPRIATE VAOT STANDARD DETAILS (E-100 THRU E-110, E-10, OTHERS AS REQUIRED).
3. APPROACH CONSTRUCTION SIGNING SHALL REMAIN IN PLACE DURING THE ENTIRE CONSTRUCTION PERIOD. OTHER SIGNING SHALL BE REMOVED OR COVERED WHEN NOT APPLICABLE.
4. VARIATIONS IN THE SIGNING PACKAGES MAY BE DICTATED BY UNIQUE GEOMETRY AND/OR TRAFFIC CONDITIONS.
5. THE CONTRACTOR SHALL NOT WORK WITHIN THE HIGHWAY ROW WITHOUT THE APPROPRIATE CONSTRUCTION SIGNING AND TRAFFIC CONTROL DEVICES IN PLACE.
6. TO FACILITATE THE FLOW OF TRAFFIC, THE TOWN AND STATE SHALL HAVE AUTHORITY TO MODIFY THE CONTRACTOR'S ONGOING OPERATIONS OR PROPOSED METHODS OF CONSTRUCTION IN AND/OR NEAR THE INTERSECTION AS IS DEEMED NECESSARY FOR THE SAFETY, CONVENIENCE AND WELFARE OF THE TRAVELING PUBLIC. THE CONTRACTOR SHALL COMPLY WITH THE TOWN AND/OR STATE'S DIRECTIVES CONCERNING THIS MATTER.

**LIST OF MAJOR EQUIPMENT - ITEM 678.15**

EQUIPMENT	QUANTITY
STEEL CANTILEVER POLE/MAST ARM ASSEMBLY	2
STEEL PEDESTAL POLE	10
PEDESTRIAN SIGNAL HEADS	12
LUMINAIRE (12' ARM)	2
GROUND MOUNTED CONTROLLER CABINET (INCL. SYSTEM MASTER & LOCAL SIGNAL CONTROLLERS)	1
12" POLYCARBONATE TRAFFIC SIGNAL HEADS WITH TUNNEL VISORS AND MOUNTING HARDWARE	
3-SECTION HEAD	9
5-SECTION HEAD	4
FIBEROPTIC NO RIGHT TURN ON RED SIGNS (24" x 24")	4
FIRE PREEMPTION DETECTORS	4
CONFIRMATION STROBES	4
PEDESTRIAN PUSH BUTTON ASSEMBLY	10
LEFT TURN YIELD ON GREEN SIGN	4

THE QUANTITIES LISTED ABOVE ARE APPROXIMATE AND ARE FURNISHED FOR INFORMATION ONLY. MISCELLANEOUS (UNLISTED) WIRE, CABLE, HARDWARE ETC., ARE REQUIRED TO PROVIDE FOR A FUNCTIONING TRAFFIC SIGNAL SYSTEM.

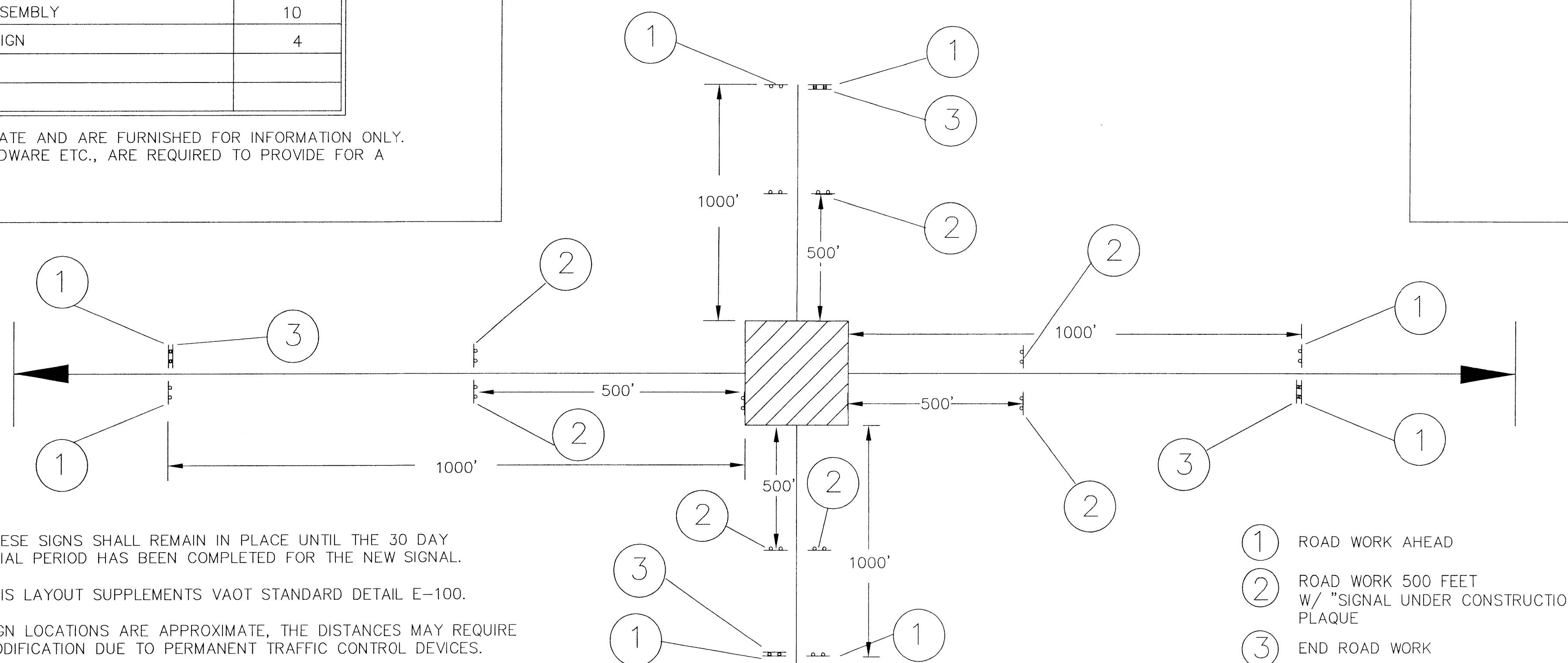
**PEDESTRIAN INSTRUCTION SIGN DETAIL**



PEDESTRIAN INSTRUCTION SIGN SHOWN ABOVE TO REPLACE SIGN SHOWN ON STD. DETAIL E-170

**CONSTRUCTION APPROACH SIGNING**

NTS



- 1.) THESE SIGNS SHALL REMAIN IN PLACE UNTIL THE 30 DAY TRIAL PERIOD HAS BEEN COMPLETED FOR THE NEW SIGNAL.
- 2.) THIS LAYOUT SUPPLEMENTS VAOT STANDARD DETAIL E-100.
- 3.) SIGN LOCATIONS ARE APPROXIMATE, THE DISTANCES MAY REQUIRE MODIFICATION DUE TO PERMANENT TRAFFIC CONTROL DEVICES.

- 1 ROAD WORK AHEAD
- 2 ROAD WORK 500 FEET W/ "SIGNAL UNDER CONSTRUCTION" PLAQUE
- 3 END ROAD WORK

**CONTRACT PLANS**

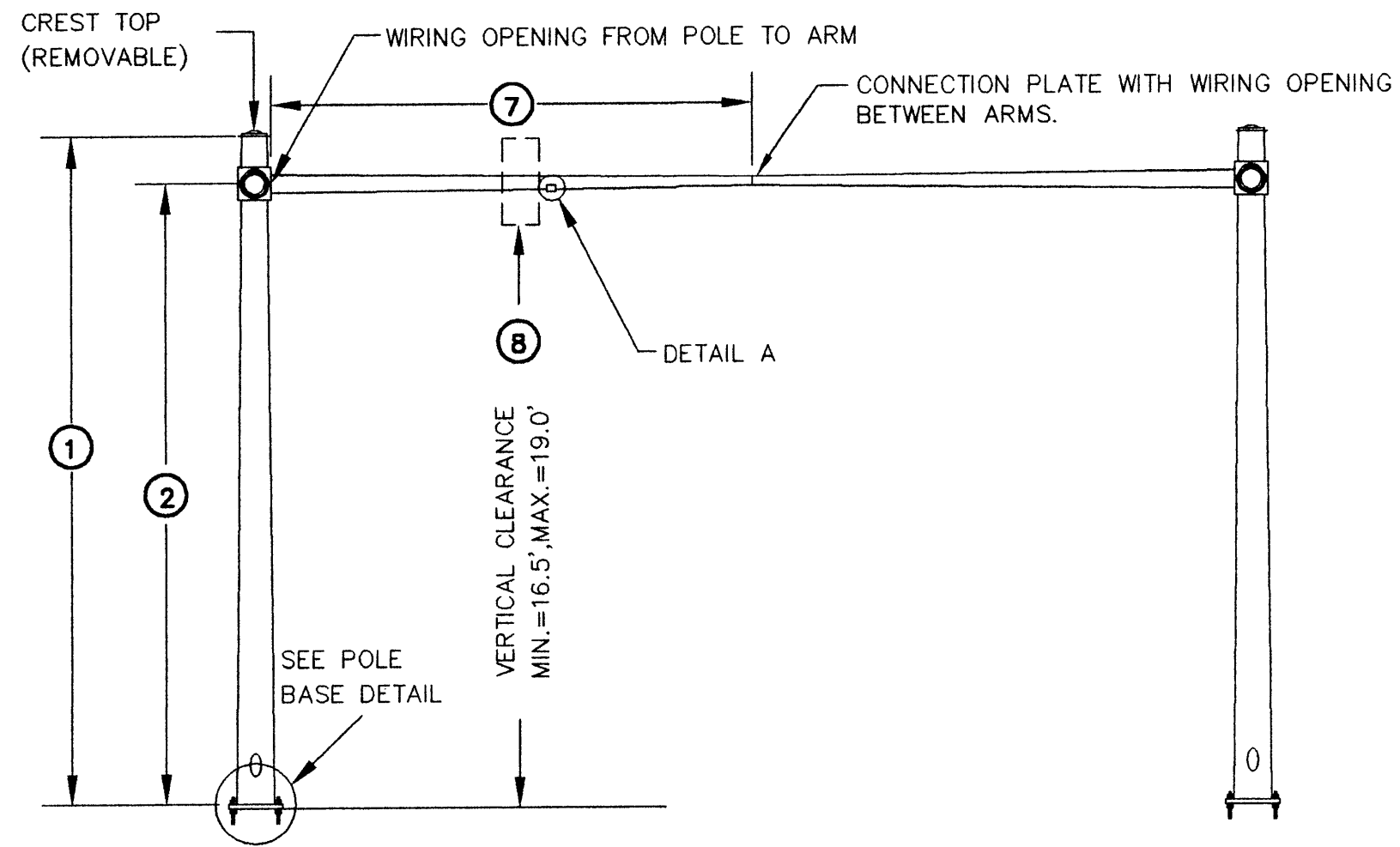
VERMONT AGENCY OF  
TRANSPORTATION  
WILLISTON NHG 5500 (10)S  
"TAFT CORNERS"  
(US ROUTE 2 / VT ROUTE 2A)

WILLISTON VERMONT

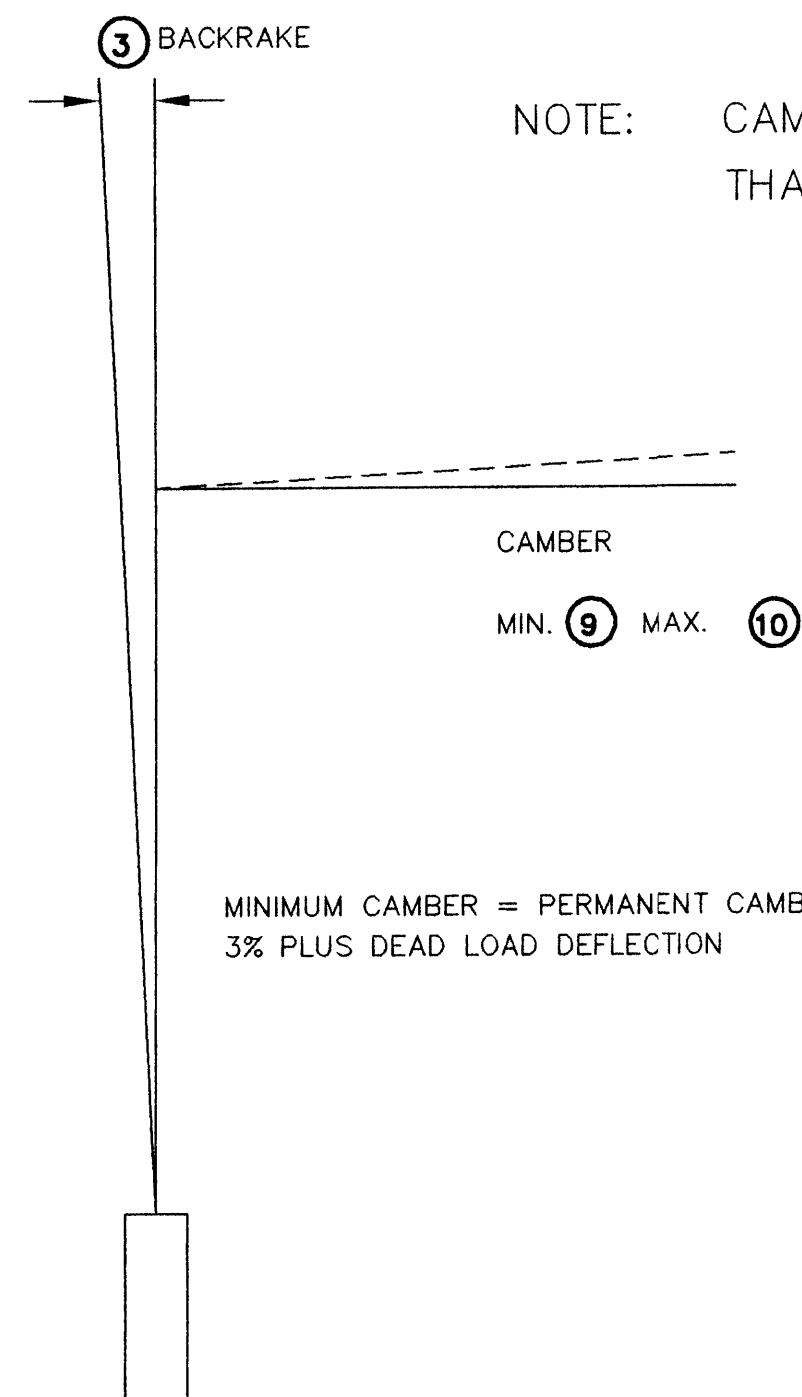
MAST ARM DESIGN  
CROSS-SECTIONS  
& MISC. NOTES

LAMOUREUX & DICKINSON  
Consulting Engineers Inc.  
14 Morse Drive  
Essex Junction, VT 05452  
(802) 878-4450  
Engineers-Planners-Surveyors

design RJD/JLC  
drawn JLC  
checked RJD  
scale AS NOTED  
sht. no. 32



- POLE BASE DIAMETER (4)
- POLE GAUGE (5)
- POLE TAPER RATE (6)
- ARM DIAMETER (11)
- ARM GAUGE (12)
- ARM TAPER RATE (13)



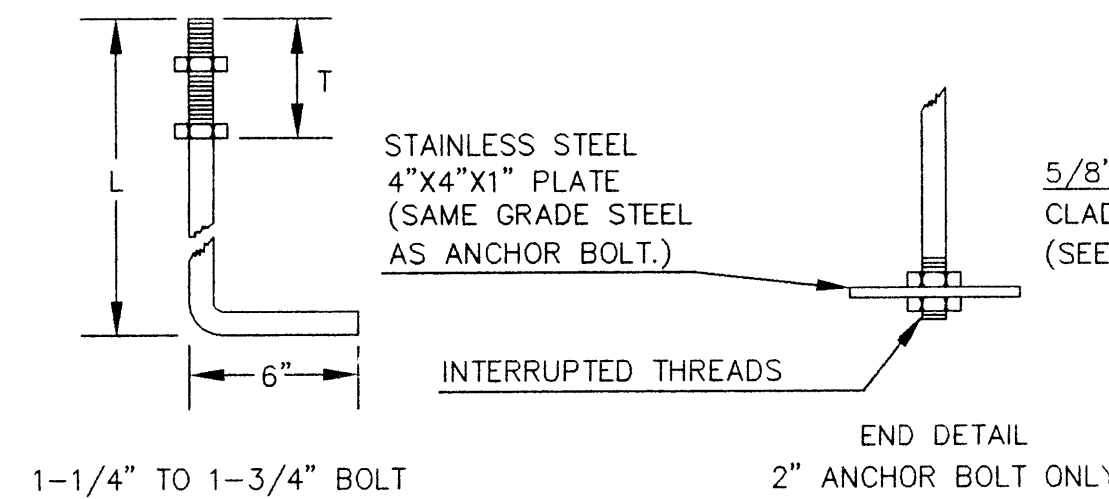
NOTE: CAMBER & BACKRAKE MUST BE DESIGNED SUCH THAT ARMS WILL MEET AT CONNECTION PLATE.

MINIMUM CAMBER = PERMANENT CAMBER OF 3% PLUS DEAD LOAD DEFLECTION

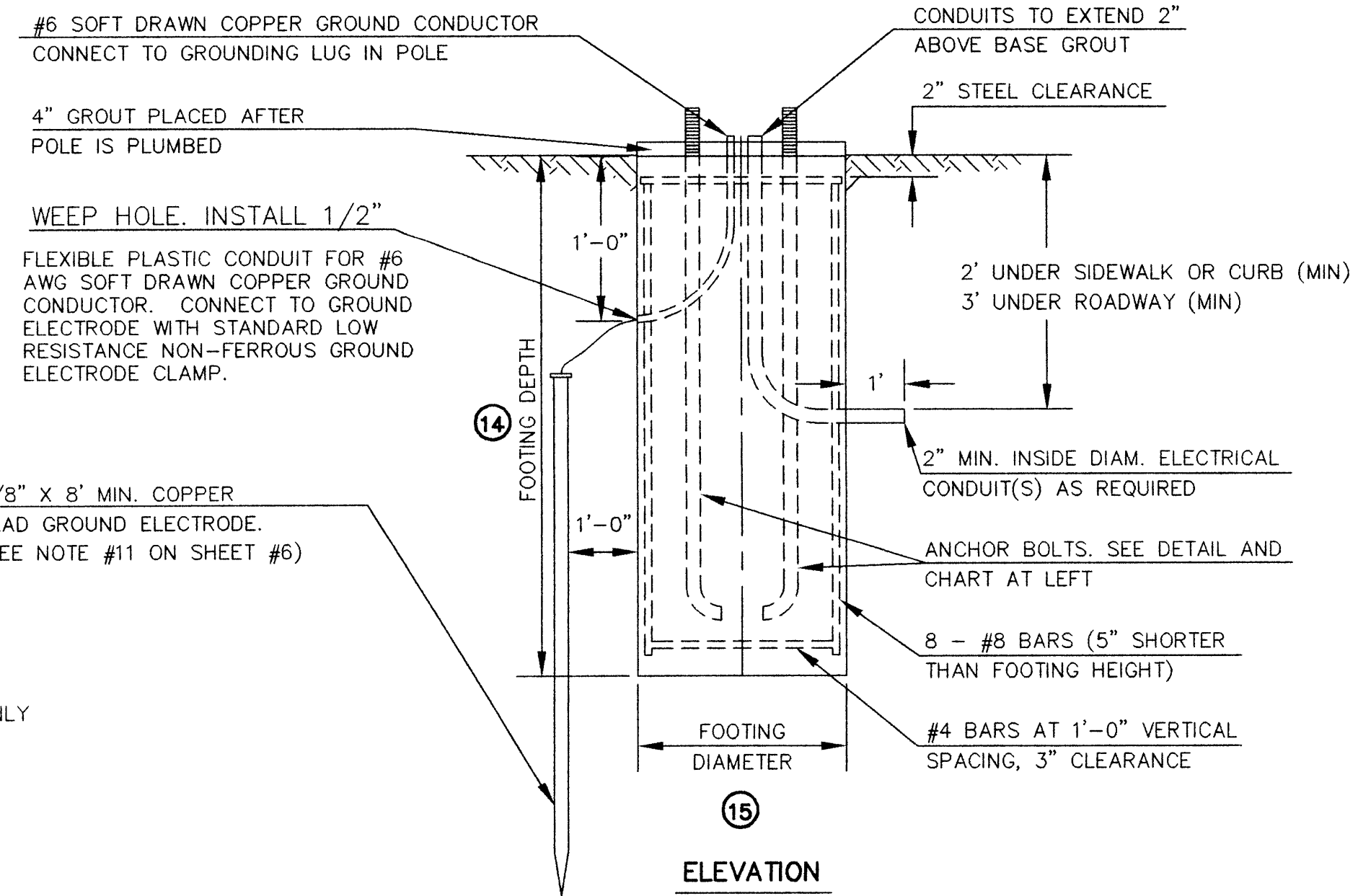
CAMBER AND BACKRAKE DATA

SEE SHEET 32 FOR CROSS SECTION

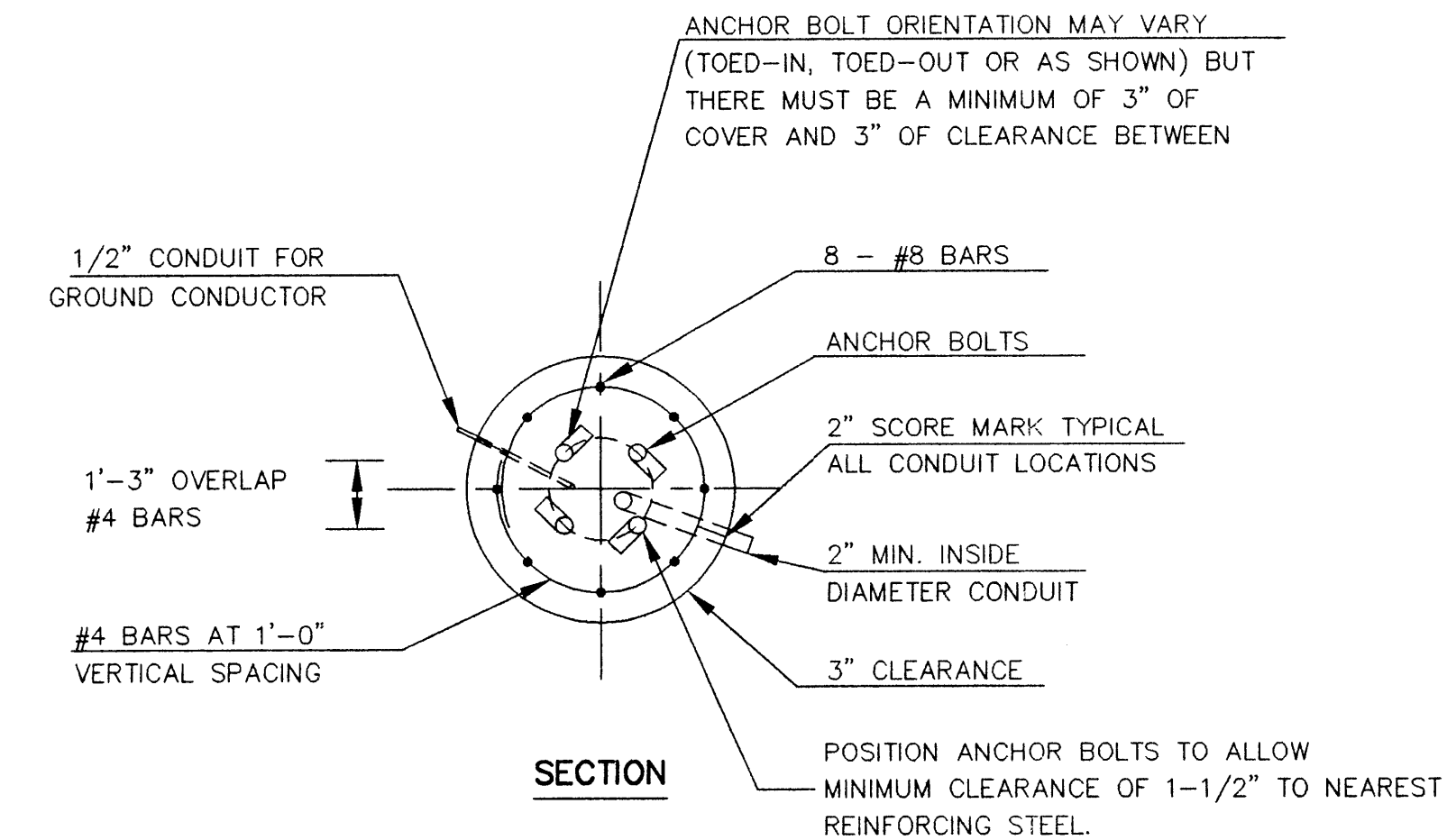
ANCHOR BOLT DETAIL		
SIZE	L(IN)	T(IN)
1-1/4" X 48"	42	8
1-1/2" X 60"	54	9
1-3/4" X 90"	84	9
2" X 96"	96	9



ANCHOR BOLT DETAIL



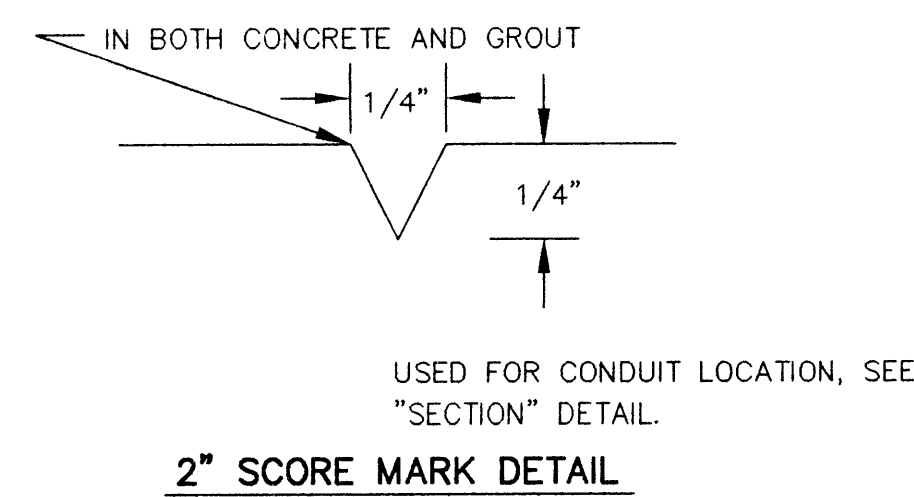
ELEVATION



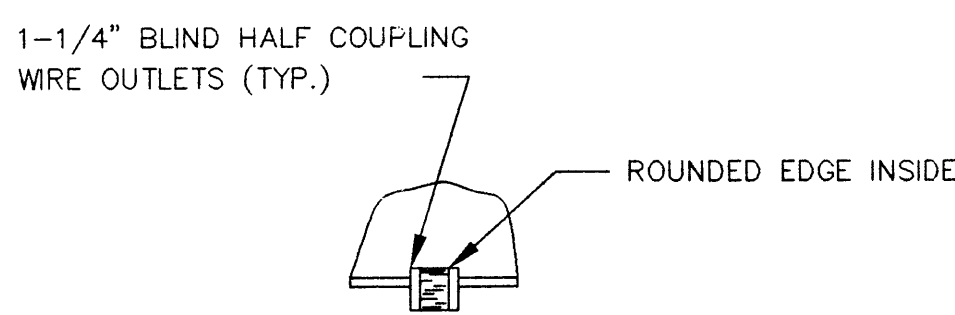
SECTION

CANTILEVER FOOTING DETAIL

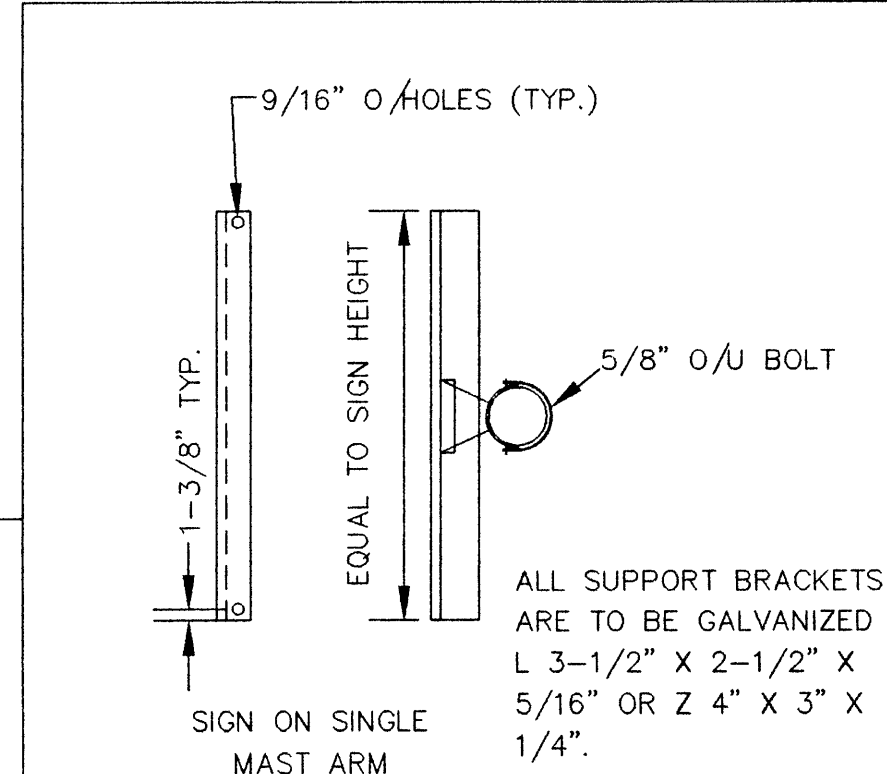
(SPREAD FOOTINGS OR PILES ARE OPTIONAL)



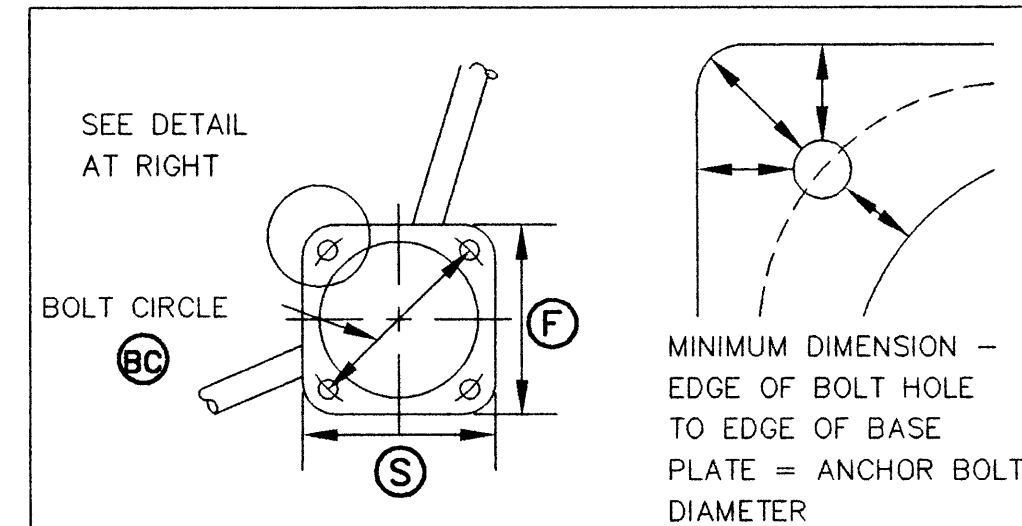
2" SCORE MARK DETAIL



DETAIL A



SIGN BRACKET DETAILS



POLE BASE AND BASE PLATE DETAIL

CONTRACT PLANS

VERMONT AGENCY OF TRANSPORTATION

WILLISTON NHG 5500 (10)S "TAFT CORNERS" (US ROUTE 2 / VT ROUTE 2A)

WILLISTON VERMONT

MAST ARM DESIGN CANTILEVER FOOTING

LAMOUREUX & DICKINSON Consulting Engineers Inc. 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450 Engineers-Planners-Surveyors

design RJD/JLC  
drawn JLC  
checked RJD  
scale 1"=20'  
shl. no. 33

POLE #	POLE DATA							ARM DATA						FOOTING DATA		BASE PLATE/BOLT DATA						ANCHOR BOLT SIZE
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	6C	F	S	T	P		
1																						
2																						

DIMENSIONS TO BE FILLED IN BY CONTRACTOR AS PART OF SHOP DRAWING SUBMITTAL

SEE NOTES 15 & 16 SHEET 34

### CANTILEVER SIGNAL SUPPORT NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION", DATED 1990, THE TOWN OF WILLISTON PUBLIC WORKS STANDARDS AND SUPPLEMENTAL SPECS. 678 AND 752.
2. OVERHEAD SIGN/SIGNAL SUPPORTS SHALL CONFORM TO AASHTO'S PUBLICATION ENTITLED "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS", DATED 1994 OR ITS LATEST REVISIONS.
3. ADDITIONAL DESIGN CRITERIA ARE AS FOLLOWS:  
 CONCRETE  $f_c = 1400$  PSI       $f'_c = 3500$  PSI  
 REINFORCING  $f_s = 24000$  PSI (GRADE 60)  
 FOOTING SOIL PRESSURE : 3000 PSF (MAXIMUM)  
  
 WIND LOAD AND ICE LOAD PER AASHTO "STANDARD SPECIFICATIONS"
4. ANCHOR BOLTS  
 FOUR STAINLESS STEEL ANCHOR BOLTS WITH TWO HEXAGON NUTS, TWO WASHERS AND ONE LOCK WASHER PER BOLT SHALL BE FURNISHED WITH EACH POLE. SEE SUB-SECTION 714.09.
5. FLANGE BOLTS  
 ALL FLANGE BOLTS AND HEX NUTS SHALL BE HIGH STRENGTH TYPE 1, GALVANIZED STEEL AND SHALL CONFORM TO AASHTO M164. THE FLANGE BOLTS SHALL BE CAPABLE OF RESISTING 133% OF THE FULL DESIGN STRESS OF THE TUBE AT ITS YIELD STRENGTH STRESS.
6. HORIZONTAL AND VERTICAL MEMBERS  
 STEEL TUBES SHALL BE FORMED AND WELDED WITH ONE CONTINUOUS LONGITUDINAL WELD ONLY. AFTER FORMING AND WELDING THEY SHALL BE COLD ROLLED TO ENSURE UNIFORMITY OF SIZE AND SMOOTHNESS OF WELD. THEY SHALL HAVE A MINIMUM YIELD STRENGTH OF 48,000 PSI. THERE SHALL BE NO TRANSVERSE WELDING EXCEPT AT THE FLANGE CONNECTIONS AND POLE BASE PLATES, WHERE THE TUBES SHALL TELESCOPE THE FLANGES AND PLATES AND BE CONTINUOUSLY WELDED BOTH SIDES INSIDE AND OUT TO WITHSTAND THE FULL TRANSFER OF THE BENDING STRENGTH TO THE BOLTS. OPTIONALLY, THE MEMBERS MAY BE A SERIES OF TWO OR THREE DIFFERENT DIAMETER PIPES WELDED TOGETHER.
7. GALVANIZING  
 ALL STEEL COMPONENTS, EXCEPT CONCRETE REINFORCING AND STAINLESS STEEL HARDWARE, ARE TO BE HOT DIPPED GALVANIZED AFTER FABRICATION. THE ASSEMBLIES SHALL BE DESIGNED AND FABRICATED TO PERMIT GALVANIZING ON ALL INTERIOR AND EXTERIOR SURFACES AND SHALL BE FREE OF POCKETS AND OTHER STRUCTURAL OBSTRUCTIONS THAT WILL NOT PERMIT PROPER DEPOSITION OF ZINC COATING. GALVANIZING SHALL BE IN ACCORDANCE WITH AASHTO M111 AND M232M/ M232.
8. WELDING  
 A. ALL DESIGN DETAILS, WORKMANSHIP, PROCEDURES AND INSPECTION SHALL CONFORM WITH SUB-SECTION 506.10.  
 B. ALL WELDS SHALL BE AT LEAST AS STRONG AS THE MATERIAL(S) BEING WELDED.
9. FOOTINGS  
 A. FOOTINGS SHALL BE DESIGNED TO RESIST LOADS EQUAL TO, OR GREATER THAN, THE MAXIMUM LOADS THAT THE POLE IS DESIGNED FOR.  
 B. THREE TYPES OF FOUNDATIONS, AS OUTLINED IN AASHTO "STANDARD SPECIFICATIONS (SEE NOTE 2) SECTION 1.8.2 (C) SHALL BE ALLOWED.  
 1. DRILLED SHAFTS  
 2. SPREAD FOOTINGS  
 3. PILES  
 C. DRILLED SHAFT FOOTINGS SHALL BE POURED IN DRILLED SHAFTS AGAINST UNDISTURBED MATERIAL. THE TOP TWO FEET OF SOIL SHALL BE NEGLECTED FOR DESIGN PURPOSES. THE MAXIMUM FOOTING DIAMETER SHALL BE 3.5 FEET AND THE MAXIMUM DEPTH SHALL BE 12 FEET. IF THESE LIMITS ARE EXCEEDED OR IF THE SOIL IS NOT CAPABLE OF A BEARING PRESSURE OF 3000 PSF, A SPREAD FOOTING SHALL BE USED.  
 D. AS AN ALTERNATIVE TO THE DRILLED HOLES, FOOTINGS MAY BE POURED IN EXCAVATED HOLES USING THE PROPER FORMS, WHICH MUST BE REMOVED. THE EXCAVATED HOLES SHALL BE AT LEAST TWO FEET CLEAR OF THE FOOTING. THE BACKFILL MATERIAL SHALL BE COMPACTED AS DESCRIBED IN SUB-SECTION 204.12. DESIGN LIMITS AS FOR AUGURED FOOTINGS APPLY.  
 E. WHEN THE DESIGN DEPTH OF A FOOTING CANNOT BE OBTAINED DUE TO UNFORSEEN FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OBTAIN A REVISED FOOTING DETAIL FROM THE ENGINEER.  
 F. ANY BACKFILL PLACED ADJACENT TO THE FOOTING SHALL BE GRANULAR MATERIAL MEETING THE REQUIREMENTS FOR GRANULAR BACKFILL FOR STRUCTURES, SUB-SECTION 704.08. CONCRETE FOR FOOTING SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE, CLASS B, SECTION 501, STRUCTURAL CONCRETE. GROUT MATERIAL SHALL BE NON-SHRINKING MORTAR CONFORMING TO SUB-SECTION 707.03 (MORTAR TYPE IV).

- G. THE TRAFFIC SIGNAL CANTILEVER MAST ARM POLES SHALL BE BACK RAKED BEFORE THE WIRES AND SIGNALS ARE INSTALLED SO THAT THE POLES WILL BE PLUMB WHEN DEAD LOAD DEFLECTION DUE TO SIGNAL HEADS OCCURS. THE AMOUNT OF BACKRAKE SHALL BE AS SHOWN ON THE PLANS. SIGNALS/SIGNS SHALL BE MOUNTED AND LEVELED AND POLES SHALL BE BACKRAKED PRIOR TO PLACING GROUT UNDER POLE BASE.
10. SHOP DRAWINGS (6 COPIES OF EACH) SHALL BE SUBMITTED TO THE AOT & DESIGN ENGINEER FOR APPROVAL PRIOR TO FABRICATION. THE SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING INFORMATION:
  - A. DETAILED DRAWING OF EACH COMPONENT OF THE STRUCTURE
  - B. MATERIAL SPECIFICATIONS FOR EACH COMPONENT OF THE STRUCTURE, EITHER BY COMPLETE SPECIFICATION OR REFERENCE TO APPLICABLE ASTM STANDARDS.
  - C. NOTATION OF PROJECT NAME, PROJECT NUMBER, ROUTE NUMBER, AND STRUCTURE STATIONING (TO BE INCLUDED ON EACH SHEET).
  - D. DETAILS FOR LOCATION OF SIGNS/SIGNALS AND ATTACHMENT HARDWARE FOR THE SUPPORT STRUCTURE.
  - E. ALL ELEVATION AND DIMENSIONS NECESSARY TO PROVIDE A COMPLETE SET OF RECORD PLANS.
  - F. DEAD LOAD DEFLECTION AND CAMBER INFORMATION.
  - G. WELDING DETAILS AND PROCEDURES ARE REQUIRED FOR ALL WELDS. PROCEDURES SHALL BE SUBMITTED FOR APPROVAL WITH REFERENCE TO EACH WELD IDENTIFIED ON THE SHOP DRAWINGS. (SEE SUBSECTION 506.10)
11. EACH OVERHEAD TRAFFIC SIGNAL/SIGN SUPPORT SHALL BE GROUNDED. THE GROUND SHALL CONSIST OF:
  - A) AN INTERNAL GROUND LUG OPPOSITE THE HAND HOLE.
  - B) A #6 (MIN.) SOFT DRAWN COPPER GROUNDING ELECTRODE CONDUCTOR.
  - C) A 5/8" X 8' (MIN.) COPPER CLAD GROUNDING ELECTRODE.

THE RESISTANCE TO GROUND SHALL BE 25 OHMS OR LESS. ADDITIONAL GROUNDING ELECTRODES MAY BE REQUIRED (MINIMUM SPACING SHALL BE 6'). WHEN A POWER SERVICE, METER AND DISCONNECT ARE ATTACHED TO A POLE, THERE SHALL BE A CONTINUOUS GROUND WIRE FROM THE METER AND DISCONNECT WHICH MAY RUN INTERNAL TO THE UPRIGHT, THROUGH THE 1/2" FLEXIBLE TUBING IN THE CONCRETE BASE TO THE REQUIRED GROUNDING ELECTRODE(S). THE GROUND WIRE FROM THE POLE GROUNDING LUG, CONTROLLER CABINET AND/OR LUMINAIRE MAY ATTACH TO THIS CONTINUOUS GROUNDING ELECTRODE CONDUCTOR FROM THE SERVICE METER AND DISCONNECT. THE CONTRACTOR SHALL PERFORM A RESISTANCE TO GROUND TEST ON THE CONTINUOUS GROUNDING ELECTRODE CONDUCTOR FROM THE SERVICE METER AND DISCONNECT AND PROVIDE A WRITTEN STATEMENT TO THE AREA ELECTRICAL INSPECTOR THAT THE GROUNDING ELECTRODE CONDUCTOR IS CONTINUOUS FROM THE SERVICE METER AND DISCONNECT AND THE RESISTANCE TO GROUND IS 25 OHMS OR LESS.

12. THE COST OF SIGNAL/SIGN SUPPORTS, INCLUDING ALL HARDWARE, SIGN BRACKETS, FOOTING AND LUMINAIRE ARMS SHALL BE INCLUDED IN THE BID PRICE. THESE COMPONENTS SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF SECTIONS 677, 678, AND 679.
13. HORIZONTAL MEMBERS SHALL BE CAMBERED AND THE VERTICAL POLES BACK RAKED (WHERE APPLICABLE) TO THE ANTICIPATED DEAD LOAD DEFLECTION PLUS THE CAMBER, IF ANY, SPECIFIED ON THE PLANS.
14. AN EQUIVALENT ALTERNATE DESIGN MAY BE SUBSTITUTED FOR THE DETAILS AND MATERIALS SHOWN.
15. THE DETAILS OF DESIGN FOR THE STRUCTURE AND FOOTINGS ARE TO BE SUPPLIED BY THE CONTRACTOR AND/OR BY THE MANUFACTURER. THE STRUCTURE SHALL BE DESIGNED TO RESIST THE MAXIMUM LOADING AS OUTLINED IN THE AASHTO STANDARD SPECIFICATIONS (SEE NOTE 2). ALL DETAILS OF THE STRUCTURE AND THE FOOTING SHALL BE CHECKED AND STAMPED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF VERMONT PRIOR TO SUBMITTAL OF THE SHOP DRAWINGS TO THE ENGINEER.
16. IN ADDITION TO THE SHOP DRAWINGS OUTLINED IN NOTE 10, THE CONTRACTOR SHALL SUBMIT ALL DESIGN CALCULATIONS TO THE TOWN, SHOWING THE FOLLOWING INFORMATION FOR EACH OF THE VERTICAL AND HORIZONTAL COMPONENTS OF THE STRUCTURE AND FOOTING:
  - A. THE DESIGN AXIAL AND SHEAR FORCES AND BENDING AND TORSIONAL MOMENTS.
  - B. THE DESIGN AXIAL, BENDING AND SHEAR STRESSES AND THE COMBINED STRESS RATIO.
  - C. VIBRATION AND FATIGUE CALCULATIONS AS SET FORTH IN SECTION 9 OF THE AASHTO PUBLICATION REFERENCED IN NOTE 2.
  - D. THE ALLOWABLE AXIAL, BENDING, AND SHEAR STRESSES.
  - E. ITEMS A,B,D - SHALL BE SHOWN FOR EACH OF THE GROUP LOADINGS (I, II, III) AND FOR THE BASIC WIND LOAD APPLIED TO THE TWO CASES OUTLINED IN THE AASHTO STANDARD SPECIFICATIONS (SEE NOTE 2) SECTION 1.2.5 (D) (4).
  - F. FAILURE TO SUPPLY THE PROPER DESIGN INFORMATION SHALL BE CAUSE FOR REJECTION OF THE STRUCTURE.
  - G. A MINIMUM OF TWO (2) WEEKS SHALL BE REQUIRED FOR REVIEW BY THE ENGINEER AND TOWN.

17. THE CONTRACTOR/MANUFACTURER SHALL BE RESPONSIBLE FOR COMPLETION OF THE STRUCTURE AND FOOTING DATA ON THE DETAIL SHEET(S).
18. FOR INSTALLATIONS WHERE BOTH "EXISTING" AND "FUTURE" CONDITIONS ARE SHOWN, THE SUPPORTS SHALL BE DESIGNED FOR THE MORE SEVERE OF THE TWO LOADING CONDITIONS. THE INFORMATION OUTLINED IN NOTE 16 ABOVE SHALL BE PROVIDED FOR BOTH THE LOADING CONDITIONS.
19. THE TRAFFIC SIGNALS SHALL BE MOUNTED TO THE ARM OR POLE USING A FIXED MOUNT SYSTEM AS SHOWN ON STANDARD DETAIL E-171C.
20. BASE PLATES SHALL BE STAMPED WITH THE VERTICAL POLE DIAMETER, HEIGHT, YIELD STRENGTH, GAUGE AND THE HORIZONTAL MEMBER DIAMETER, LENGTH, YIELD STRENGTH, GAUGE. ALTERNATELY, THE INFORMATION MAY BE STAMPED ON A METAL TAG RIVETED TO THE POLE NEAR THE HANDHOLE.
21. SEE SHEET 31 & 32 FOR CANTILEVER (MAST ARM) POLE LOCATIONS AND CROSS-SECTIONS.

### GENERAL CONSTRUCTION NOTES

#### SIGNAL EQUIPMENT & INSTALLATION SPECIFICATIONS

1. ALL NEW EQUIP. SHALL MEET OR EXCEED THE TOWN OF WILLISTON PUBLIC WORKS STDS., VAOT SUPPLEMENTAL SPECS. 678 & 752, NEMA STANDARDS AND IMSA OR ITE SPECIFICATIONS, WHERE APPLICABLE. INSTALLATION OF SIGNAL EQUIPMENT SHALL BE AS DETAILED ON THESE PLANS AND THE VAOT STANDARD DETAILS REFERENCED ON SHEET 1 AND IN THE CONTRACT DOCUMENTS.
2. THE CONTRACTOR SHALL SUBMIT, FOR APPROVAL, SHOP DRAWINGS FOR EACH NEW TRAFFIC SIGNAL EQUIPMENT ITEM. SHOP DRAWING SUBMITTALS SHALL CONFORM TO VAOT STD. SPECS.
3. ALL POLE MOUNTED AND MAST ARM MOUNTED SIGNAL HEADS SHALL HAVE POLYCARBONATE SECTIONS AND LENSES. THE SIGNAL HEADS SHALL HAVE FLAT BLACK HOUSINGS AND VISORS. BLACK LOUVERED BACKPLATES SHALL BE INSTALLED ON ALL EAST/WEST HEADS UNLESS OTHERWISE NOTED. ALL SIGNAL HEADS SHALL HAVE RED, YELLOW AND GREEN LED SIGNALS.
4. ALL MAST ARM AND PEDESTAL POLES SHALL BE PAINTED FLAT BLACK.
5. MINIMUM CONDUIT SIZES SHALL BE:
  - A) 2.0 INCHES FOR POWER SERVICE
  - B) 2.0 INCHES FOR SIGNAL WIRING
  - C) 2.0 INCHES FOR STREET LIGHTING
  - D) 1.5 INCHES FOR LOOP LEAD-INS
6. NEW LUMINAIRES SHALL BE GENERAL ELECTRIC M-250A2 250 WATT HPS WITH MC-III CUT-OFF OPTICS, OR EQUAL.
7. PEDESTRIAN SIGNALS SHALL BE EQUIPPED WITH "BIRD CALL" TYPE AUDIBLE SIGNALS. PEDESTRIAN INSTRUCTION SIGNS SHALL BE INCLUDED AT ALL PEDESTRIAN PUSH BUTTON LOCATIONS (SEE DETAIL ON SHEET 32). PEDESTRIAN HEADS SHALL HAVE BLACK HOUSINGS AND FIBEROPTIC SYMBOL (HAND/MAN) TYPE FACES.

#### LOOP NOTES:

1. EACH LOOP SHALL HAVE ITS OWN AMPLIFIER.
2. ALL LOOPS AND LEAD IN WIRING SHALL BE #12 AWG.

#### CONTROLLER/CABINET NOTES:

1. THE CONTROLLER SHALL BE AN ECONOLITE ASC-2 TYPE MASTER CONTROLLER PLACED IN A GROUND MOUNTED CABINET AT THE LOCATION SHOWN ON SHEET 31. THE CABINET SHALL HAVE A FLAT BLACK FINISH.
1. THE FIRE PREEMPTION SYSTEM SHALL BE A STROBECOM I SYSTEM, MANUFACTURED BY TOMAR ELECTRONICS, INC., OR EQUAL. THE SYSTEM SHALL INCLUDE ALL NECESSARY INTERFACE BOARDS, WIRING, DETECTORS AND CONFIRMATION LIGHTS. EMITTERS AND OTHER VEHICLE MOUNTED EQUIPMENT TO BE PURCHASED SEPARATELY BY THE TOWN. THE SYSTEM SHALL BE FUNCTIONALLY COMPATIBLE WITH OPTICOM, AS MANUFACTURED BY 3M.
2. THE DWELL PHASE (PHASE 2/6) SHALL BE USED FOR THE START-UP PHASE FOLLOWING FLASHING OPERATION.
3. SIGNAL TIMINGS SHOWN ON THESE PLANS MAY REQUIRE FINE-TUNING IN THE FIELD BASED ON TRAFFIC OBSERVATIONS. FINAL ACCEPTANCE OF THIS PROJECT BY THE TOWN WILL BE SUBJECT TO A 30-DAY TEST PERIOD, DURING WHICH ALL TIMING/PROGRAMMING CHANGES SHALL BE MADE, FOLLOWED BY A 1-YEAR WARRANTY PERIOD DURING WHICH ALL EQUIPMENT PROBLEMS SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
4. UPON COMPLETION OF THE 30-DAY TEST PERIOD, THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER AND TOWN UPDATED SIGNAL TIMING PROGRAMMING SHEETS SHOWING ALL MODIFIED SETTINGS, IF ANY.

#### GENERAL SPECIFICATIONS

1. THE CONTRACTOR SHALL CONTACT ALL UTILITIES BEFORE EXCAVATION TO VERIFY THE LOCATION OF ANY UNDERGROUND LINES. THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.
2. INTERSECTION LAYOUT AND UTILITY INFORMATION OBTAINED FROM A SURVEY PERFORMED BY LAMOUREUX & DICKINSON. CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS OF EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY, PUBLIC OR PRIVATE, SHOWN HEREON.
3. ANY SURFACES, LINES, OR STRUCTURES WHICH HAVE BEEN DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO THE CONDITION AT LEAST EQUAL TO THAT IN WHICH THEY WERE FOUND IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS.
4. THE DESIGN ON THESE PLANS SHALL BE INSPECTED BY LAMOUREUX & DICKINSON CONSULTING ENGINEERS, INC., ESSEX JUNCTION, VERMONT, TO ENSURE COMPLIANCE WITH THE PLANS AND REQUIREMENTS. LAMOUREUX & DICKINSON WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS THAT MAY ARISE FROM THE FAILURE OF THE CONTRACTOR TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THAT THE PLANS CONVEY, AND FROM FAILURE TO HAVE BEEN NOTIFIED TO INSPECT THE WORKS AND TESTS IN PROGRESS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF STRUCTURES, VEGETATION AND PAVEMENT NECESSARY TO CONSTRUCT THE PROJECT, UNLESS OTHERWISE NOTED ON THE PLANS. THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIAL, DEBRIS AND TRASH FROM THE SITE UPON COMPLETION OF CONSTRUCTION, UNLESS OTHERWISE DIRECTED BY THE TOWN.

### CONTRACT PLANS

**VERMONT AGENCY OF  
TRANSPORTATION**

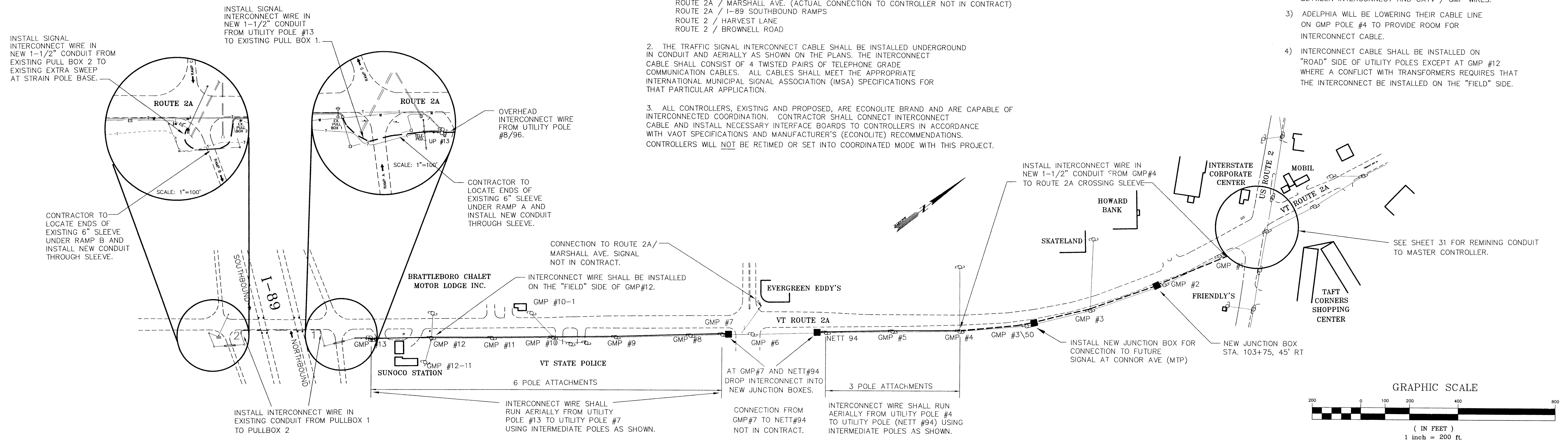
**WILLISTON NHG 5500 (10)S  
"TAFT CORNERS"  
(US ROUTE 2 / VT ROUTE 2A)**

WILLISTON	VERMONT
<b>CANTILEVER SUPPORT &amp; TRAFFIC SIGNAL NOTES</b>	
	design RJD/JLC drawn JLC checked RJD
<b>LAMOUREUX &amp; DICKINSON Consulting Engineers Inc.</b> 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450 <b>Engineers-Planners-Surveyors</b>	
scale 1"=20' sht. no. <b>34</b>	

GENERAL NOTES:

1. THE SIGNAL CONTROLLER AT TAFT CORNERS (ROUTE 2 & 2A) SHALL BE THE SYSTEM MASTER WITH EACH SIGNAL CONTROLLER TO BE CONNECTED IN SERIES. COORDINATION BETWEEN THE SYSTEM MASTER AND THE FOLLOWING LOCAL CONTROLLERS SHALL BE BY TELEMETRY:  
 ROUTE 2A / MARSHALL AVE. (ACTUAL CONNECTION TO CONTROLLER NOT IN CONTRACT)  
 ROUTE 2A / I-89 SOUTHBOUND RAMPS  
 ROUTE 2 / HARVEST LANE  
 ROUTE 2 / BROWNELL ROAD
2. THE TRAFFIC SIGNAL INTERCONNECT CABLE SHALL BE INSTALLED UNDERGROUND IN CONDUIT AND AERIALLY AS SHOWN ON THE PLANS. THE INTERCONNECT CABLE SHALL CONSIST OF 4 TWISTED PAIRS OF TELEPHONE GRADE COMMUNICATION CABLES. ALL CABLES SHALL MEET THE APPROPRIATE INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION (IMSA) SPECIFICATIONS FOR THAT PARTICULAR APPLICATION.
3. ALL CONTROLLERS, EXISTING AND PROPOSED, ARE ECONOLITE BRAND AND ARE CAPABLE OF INTERCONNECTED COORDINATION. CONTRACTOR SHALL CONNECT INTERCONNECT CABLE AND INSTALL NECESSARY INTERFACE BOARDS TO CONTROLLERS IN ACCORDANCE WITH VAOT SPECIFICATIONS AND MANUFACTURER'S (ECONOLITE) RECOMMENDATIONS. CONTROLLERS WILL NOT BE RETIMED OR SET INTO COORDINATED MODE WITH THIS PROJECT.

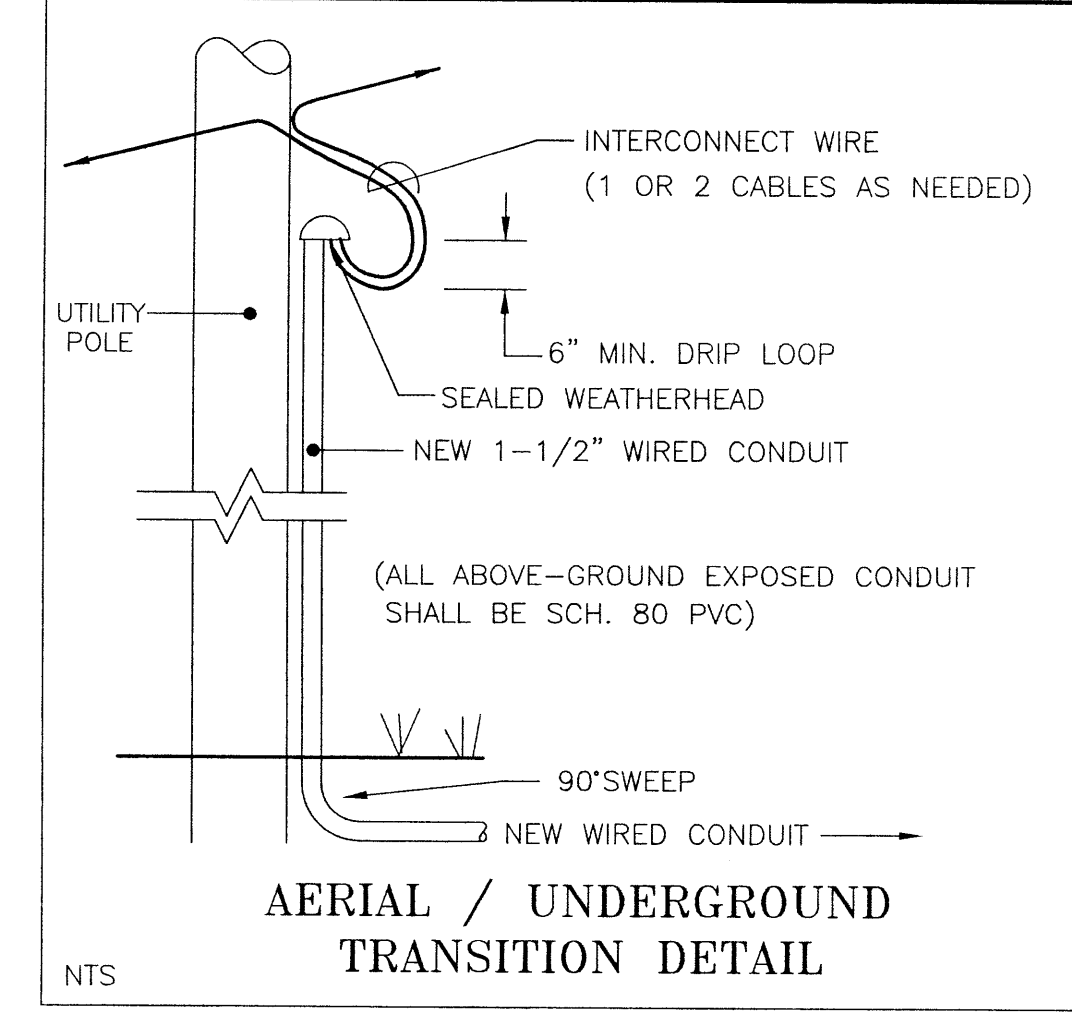
- VT ROUTE 2A NOTES:
- 1) AERIAL INTERCONNECT WIRE SHALL BE INSTALLED ABOVE CABLE TV ON VT ROUTE 2A.
  - 2) A 12" SEPARATION SHALL BE MAINTAINED BETWEEN INTERCONNECT AND CATV / GMP WIRES.
  - 3) ADELPHIA WILL BE LOWERING THEIR CABLE LINE ON GMP POLE #4 TO PROVIDE ROOM FOR INTERCONNECT CABLE.
  - 4) INTERCONNECT CABLE SHALL BE INSTALLED ON "ROAD" SIDE OF UTILITY POLES EXCEPT AT GMP #12 WHERE A CONFLICT WITH TRANSFORMERS REQUIRES THAT THE INTERCONNECT BE INSTALLED ON THE "FIELD" SIDE.



LEGEND

- INTERCONNECT CABLE INSTALLED AERIALLY
- - - INTERCONNECT CABLE INSTALLED UNDERGROUND
- - - T - - UNDERGROUND UTILITY
- T - TELEPHONE
- W - WATER
- ES - ELECTRICAL SERVICE
- NEW JUNCTION BOX
- EXISTING PULL BOX
- UTILITY POLE
- GUY WIRE
- ∞ EXISTING CONTROLLER

- US ROUTE 2 NOTES:
- 1) AERIAL INTERCONNECT WIRE SHALL BE INSTALLED ABOVE TELEPHONE AND BELOW CATV ON US ROUTE 2.
  - 2) A 12" SEPARATION SHALL BE MAINTAINED BETWEEN INTERCONNECT AND TELEPHONE / CATV.
  - 3) ADELPHIA WILL BE RAISING THEIR CABLE LINE ON GMP POLES #29, #30, #35 AND #37 TO PROVIDE ROOM FOR INTERCONNECT CABLE.



CONTRACT PLANS

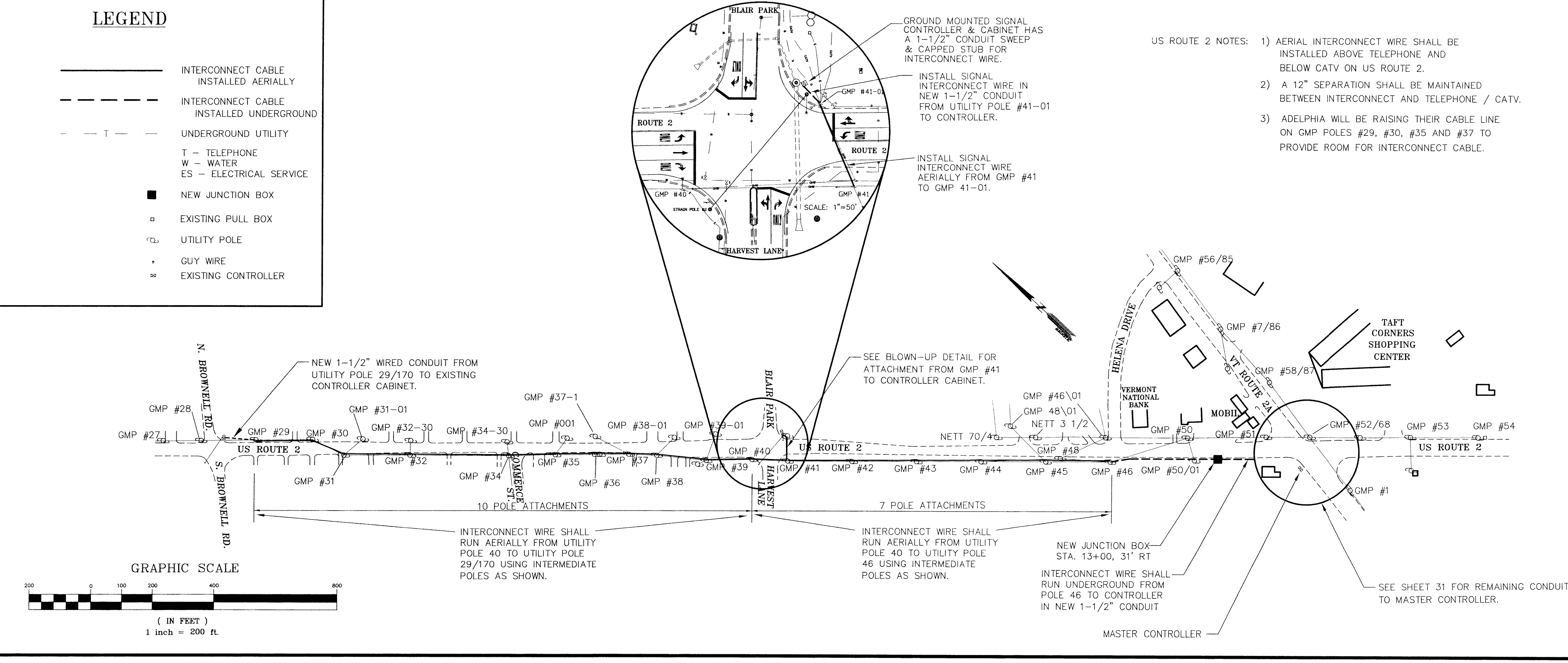
**VERMONT AGENCY OF TRANSPORTATION**

**WILLISTON NHG 5500 (10)S**

**"TAFT CORNERS"**

(US ROUTE 2 & VT ROUTE 2A)

WILLISTON	VERMONT
SIGNAL SYSTEM INTERCONNECT PLAN	desi gn RJD/JLC drawn DWE/JLC checked RJD
<b>LAMOUREUX &amp; DICKINSON</b> Consulting Engineers Inc. 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450 Engineers-Planners-Surveyors	
scale 1"=200' sht. no. <b>35</b>	



SHEET	ROADWAY WIDENING/OVERLAY	CONCRETE CURB	STORM SEWER	PAVEMENT MARKINGS	TRAFFIC SIGNS	EROSION CONTROL	SIGNAL INTERCONNECT
8	4' WIDE FROM STA. 9+95 - 14+00	---	---	---	---	---	---
9	4' WIDE 14+00 - 16+08 OVERLAY 17+75 - 18+50 STA. 109+35 - 111+00 LT	STA. 110+87 - 111+00 LT	ALL 24" PIPE & MH REMOVAL 1/4 OF 30" PIPE & CB 14-16 1/4 OF CB 14 REMOVAL & 6"UD	---	---	---	---
10	ALL	---	---	---	---	ALL	---
11	ALL	---	---	---	---	ALL	---
12	ALL EXCEPT OVERLAY FROM STA. 9+95 - 16+08	---	---	---	---	ALL	---
13	STA. 111+00 - 117+00 LT	STA. 111+00 - 115+61 LT	1/4 OF ITEMS LT OF BL	---	---	1/2 (WEST SIDE ONLY)	---
14	---	---	1/4 OF ALL STORM ITEMS	---	---	1/4 OF TOTAL FOR SHEET	---
23	---	---	---	---	---	---	---
24	---	---	---	STA. 17+50 - 18+50 STA. 109+20 - 111+00	---	---	---
25	---	---	---	ALL	ALL	---	---
26	---	---	---	ALL	ALL	---	---
27	---	---	---	ALL	ALL	---	---
28	---	---	---	ALL	ALL	---	---
35	---	---	---	---	---	---	1/2 INTERCONNECT ITEMS

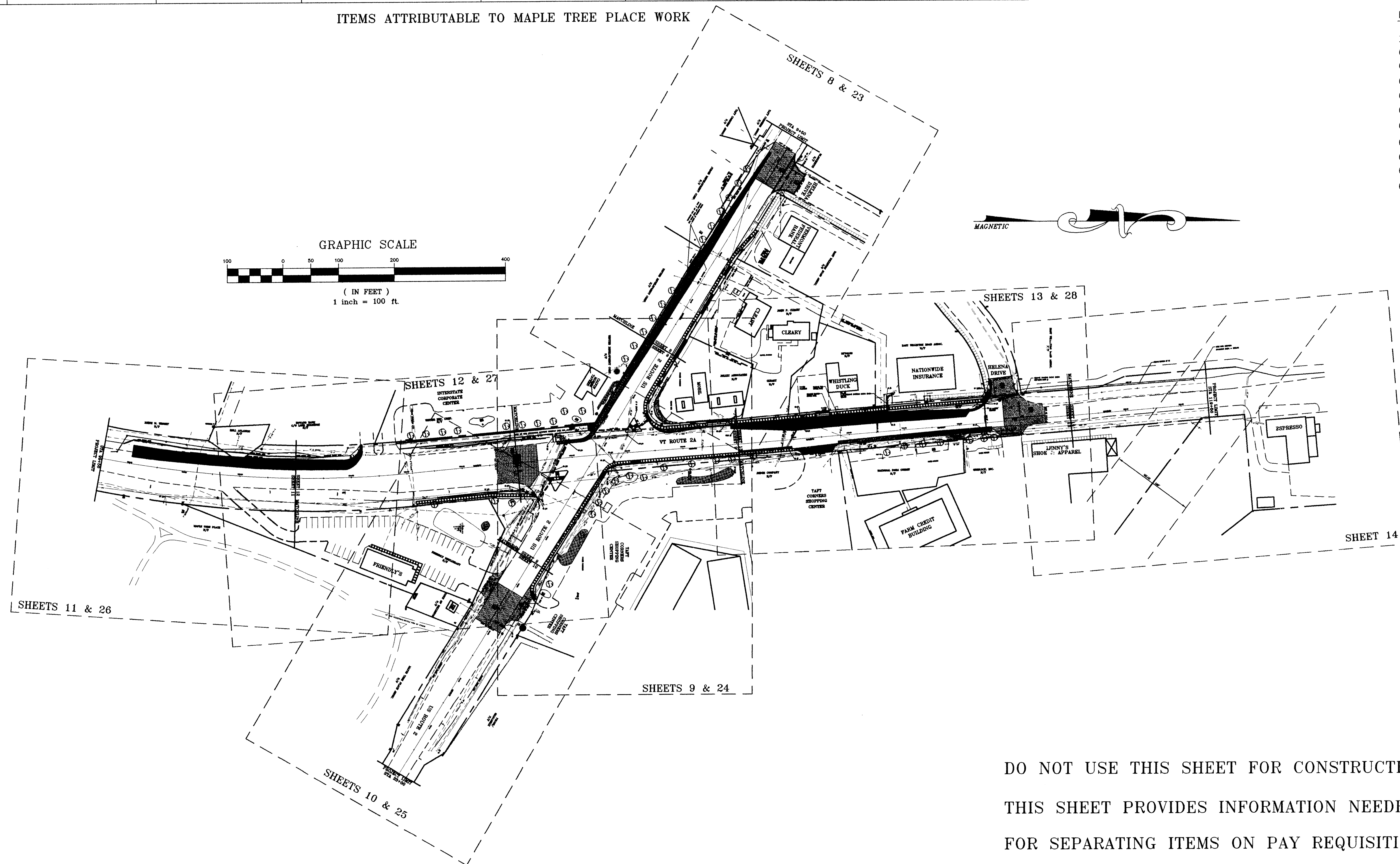
- ROADWAY WIDENING ITEMS: COMMON EXCAVATION, SUBBASE OF DENSE GRADED CRUSHED STONE, BITUMINOUS CONCRETE PAVEMENT, EMULSIFIED ASPHALT, ADJ. ELEV. OF VALVE BOX, AGGREGATE SHOULDER, COLD PLANING, REMOVING SMALL TREES, CHANGING ELEV. OF SEWER MANHOLES
- CONCRETE CURB: CAST-IN-PLACE CONCRETE CURB, REMOVAL OF EXISTING CURBING
- STORM SEWER ITEMS: TRENCH EXCAVATION OF EARTH/ROCK, NEW STORM PIPE, NEW END SECTION, NEW CATCH BASINS, MANHOLES & DROP INLETS, CHANGING ELEV. OF CB, MH OR DI
- PAVEMENT MARKINGS ITEMS: DURABLE MARKINGS, TEMPORARY MARKINGS, REMOVAL OF EXISTING MARKINGS
- TRAFFIC SIGN ITEMS: REMOVING SIGNS, ERECTING SALAVAGED SIGNS, TYPE A SIGNS, SIGN POSTS/ANCHORS/SLEEVES/FOUNDATIONS
- EROSION CONTROL ITEMS: SILT FENCE, SEED, FERTILIZER, LIMESTONE, HAY MULCH, TOPSOIL
- SIGNAL INTERCONNECT ITEMS: INTERCONNECTING CABLE, WIRED CONDUIT, JUNCTION BOX

NOTE: DO NOT BILL MAPLE TREE PLACE FOR ANY ITEMS ASSOCIATED WITH SIDEWALK CONSTRUCTION

ITEMS ATTRIBUTABLE TO MAPLE TREE PLACE WORK

ITEMS SPLIT 75% STATE - 25% MAPLE TREE PLACE

- 201.10 CLEARING & GRUBBING
- 630.15 FLAGGERS
- 635.10 MOBILIZATION
- 641.10 TRAFFIC CONTROL
- 641.35 TRAFFIC OFFICER W/ FLASHING LIGHT
- 649.51 GEOTEXTILE FOR SILT FENCE
- 651.15 SEED
- 651.18 FERTILIZER
- 651.20 AGRICULTURAL LIMESTONE
- 651.25 HAY MULCH
- 651.35 TOPSOIL



DO NOT USE THIS SHEET FOR CONSTRUCTION  
THIS SHEET PROVIDES INFORMATION NEEDED  
FOR SEPARATING ITEMS ON PAY REQUISITIONS

CONTRACT PLANS							
VERMONT AGENCY OF TRANSPORTATION							
WILLISTON NHG 5500 (10)S "TAFT CORNERS" (US ROUTE 2 & VT ROUTE 2A)							
WILLISTON	VERMONT						
NON-PARTICIPATING ITEMS	<table border="1"> <tr><td>desi gn</td><td>RJD</td></tr> <tr><td>drawn</td><td>JLC</td></tr> <tr><td>checked</td><td>RJD</td></tr> </table>	desi gn	RJD	drawn	JLC	checked	RJD
desi gn	RJD						
drawn	JLC						
checked	RJD						
<b>LAMOUREUX &amp; DICKINSON</b> Consulting Engineers Inc. 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450 Engineers-Planners-Surveyors							
scale 1"=100' Sht. no. <b>36</b>							

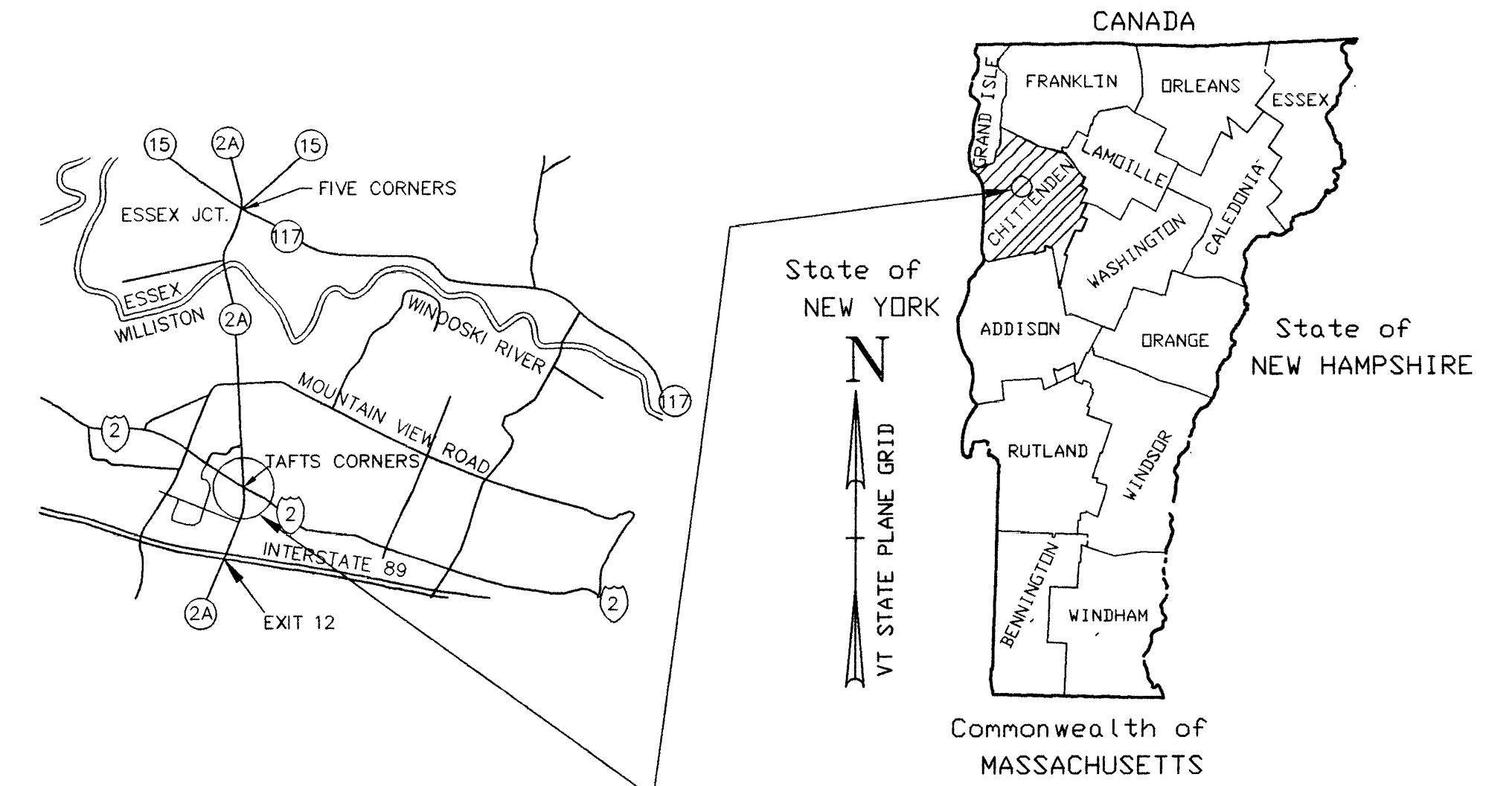
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STATE OF VERMONT  
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT  
TRAFFIC SIGNAL MODIFICATIONS

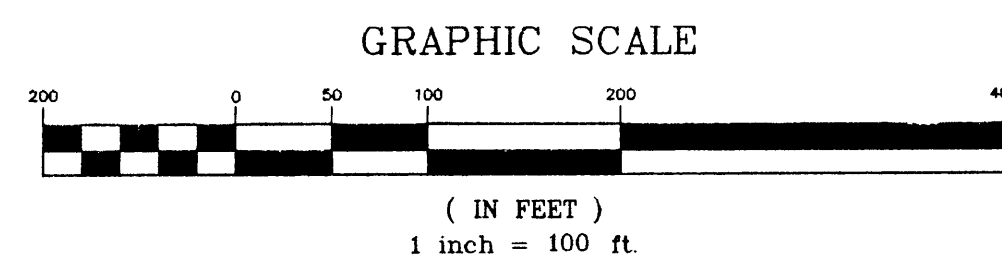
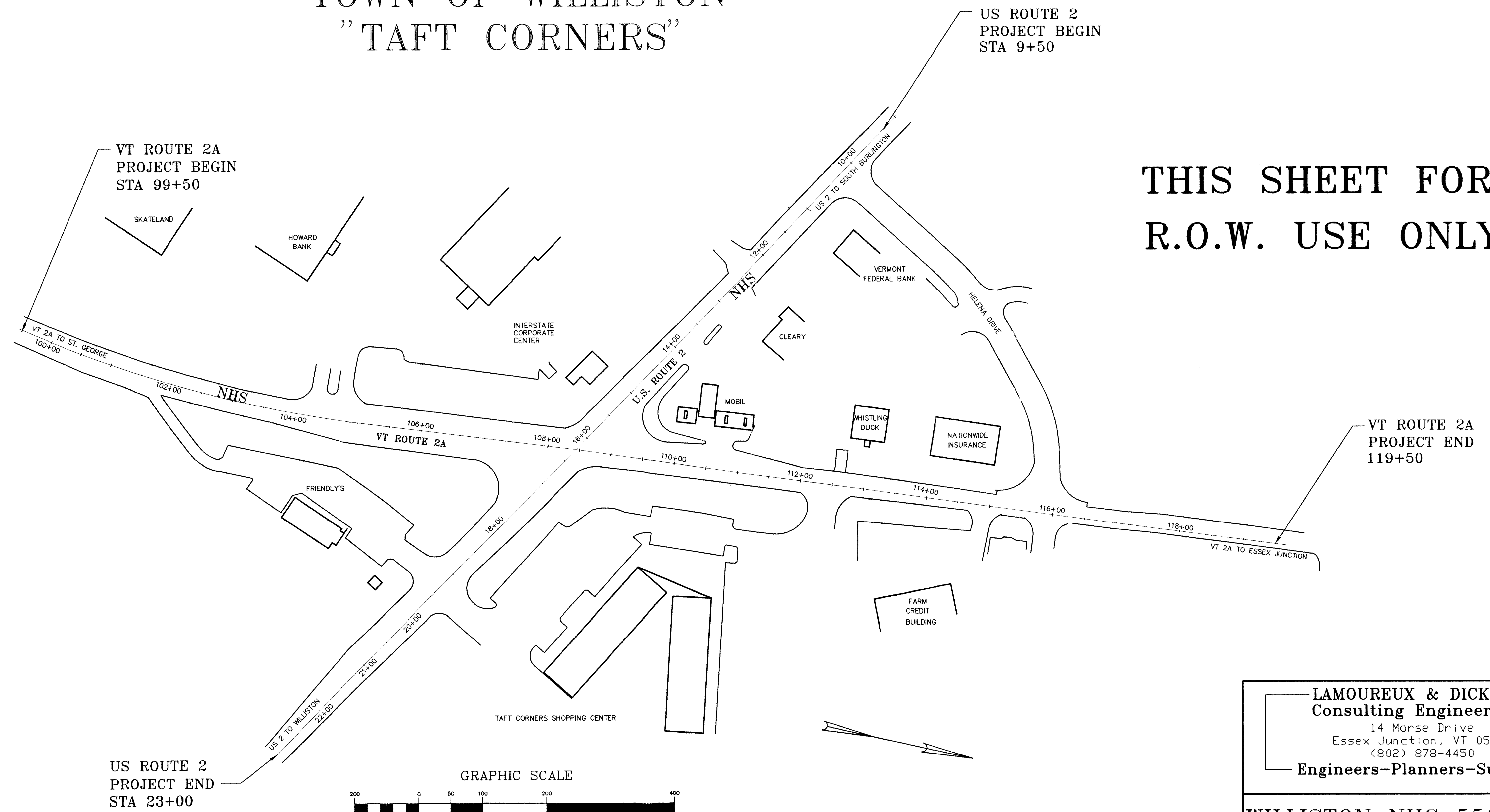
WILLISTON NHG 5500 (10)S  
US ROUTE 2 (FAP) & VT ROUTE 2A (FAP)  
TOWN OF WILLISTON  
"TAFT CORNERS"



PROJECT LOCATION

R.O.W. PLANS

THIS SHEET FOR  
R.O.W. USE ONLY



DATUM	
VERTICAL	NGVD 88
HORIZONTAL	NAD 83

WORK TO BE PERFORMED UNDER THIS CONTRACT INCLUDES ROADWAY WIDENING, CURBING INSTALLATION, SIDEWALK CONSTRUCTION, MAST ARM SIGNAL INSTALLATION, TRAFFIC SIGNAL INTERCONNECT WIRING, INTERSECTION LIGHTING, SIGN REPLACEMENT, PAVEMENT OVERLAY AND NEW DURABLE PAVEMENT MARKINGS.

LAMOUREUX & DICKINSON  
Consulting Engineers Inc.  
14 Morse Drive  
Essex Junction, VT 05452  
(802) 878-4450  
Engineers-Planners-Surveyors

WILLISTON NHG 5500 (10)S  
"TAFT CORNERS"  
(US ROUTE 2 & VT ROUTE 2A)  
WILLISTON, VERMONT  
ROW SHEET 1 OF 8

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

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
1	EAST WILLISTON ROAD ASSOCIATES	2	10+51 LT.	11+92 LT.			SIDEWALK (P)						15' WIDE EASEMENT TO INSTALL AND MAINTAIN SIDEWALK (0.05 AC)
		7	113+52 LT.	115+50 LT.			SIDEWALK (P)						15' WIDE EASEMENT TO INSTALL AND MAINTAIN SIDEWALK (0.07 AC)
		7 & 8	116+14 LT.	118+03 LT.			DRAINAGE (P)						15' WIDE EASEMENT TO INSTALL AND MAINTAIN 30" STORM PIPE (0.065 AC)
		7	115+47 LT.	115+51 LT.			CURBING (T)						TO REMOVE EXISTING CURBING
		7	113+66 LT.	113+86 LT.			DRAINAGE (P)						
2	BEVERLY JEAN & BONNIE JEAN STYGLES	7	111+95 LT.	113+51 LT.			SIDEWALK (T)						TO INSTALL SIDEWALK
		7	112+45 LT.	112+69 LT.			DRIVE (T)						TO RECONSTRUCT 24' WIDE DRIVE AND MATCH NEW PAVEMENT TO EXISTING PAVED PARKING
		7	112+71 LT.				PLANTER (T)						TO RELOCATE PLANTER OUTSIDE STATE R.O.W.
		7	112+83 LT.				SIGN (T)						TO RELOCATE GIFT SHOP SIGN OUTSIDE STATE R.O.W.
		7	112+90 LT.				STUMP (T)						TO REMOVE TREE STUMP
		7	113+25 LT.				STUMP (T)						TO REMOVE TREE STUMP
3	ROBERT J. & BRUCE A. JOLLEY (DBA JOLLEY ASSOCIATES)	2 & 3	13+56 LT.	14+60 LT.			SIDEWALK (T)						5' WIDE EASEMENT TO INSTALL SIDEWALK & CURBING
		2	13+56 LT.	13+65 LT.			CURBING (T)						TO REMOVE EXISTING CURBING & RAISED ISLAND
		2 & 3	13+65 LT.	14+08 LT.			DRIVE (T)						TO MATCH NEW PAVEMENT TO EXISTING PAVED DRIVE
		3	14+50 LT.				SIGN (T)						TO REMOVE SIGN FOR ROUTE 2 WEST
		3 & 7	109+80 LT.	111+11 LT.			SIDEWALK (T)						5' WIDE EASEMENT TO INSTALL SIDEWALK & CURBING
		3 & 7	110+45 LT.	110+77 LT.			DRIVE (T)						TO MATCH NEW PAVEMENT TO EXISTING PAVED DRIVE
		3	110+83 LT.				DRAINAGE (T)						TO REMOVE CATCH BASIN GRATE & INSTALL COVER (CB#10)
		3	110+90 LT.				LIGHT (T)						TO RELOCATE LIGHT POLE OUTSIDE STATE R.O.W.
		3	110+14 LT.				LIGHT (T)						TO RELOCATE LIGHT POLE OUTSIDE STATE R.O.W.
		3	109+65 LT.				SIGN (T)						TO REMOVE MOBIL SIGN FROM STATE R.O.W.
4	TOWN OF WILLISTON	2	9+90 LT.	10+47 LT.			APPROACH (T)						TO OVERLAY AND INSTALL PAVEMENT MARKINGS ON HELENA DRIVE APPROACH
		7	115+50 LT.	116+15 LT.			APPROACH (T)						TO OVERLAY AND INSTALL PAVEMENT MARKINGS ON HELENA DRIVE APPROACH
		7	115+85 LT.	116+15 LT.			DRAINAGE (P)						10' WIDE EASEMENT TO INSTALL AND MAINTAIN 30" STORM PIPE (0.007 AC)
5	HOWARD BANK	5	101+37 LT.	102+36 LT.			ROADWAY (P)						PARCEL ACQUISITION FOR ROADWAY WIDENING (0.04 AC) (PENDING)

TABLE OF REVISIONS

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

DR. (P) - DRAINAGE RIGHT  
 DIP. (P) - DITCHING RIGHT  
 CH. (P) - CHANNEL RIGHT  
 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  
 (P) PERMANENT EASEMENT  
 (T) TEMPORARY EASEMENT

... CZ (P) ... CLEAR ZONE  
 --- CONSI (T) --- CONSTRUCTION EASEMENT  
 SR SR SLOPE RIGHTS  
 P PROPERTY LINE  
 △ TOP OF CUT  
 ○ TOE OF SLOPE

**VERMONT AGENCY OF  
TRANSPORTATION**

WILLISTON NHG 5500 (10)S  
"TAFT CORNERS"  
(US ROUTE 2 & VT ROUTE 2A)

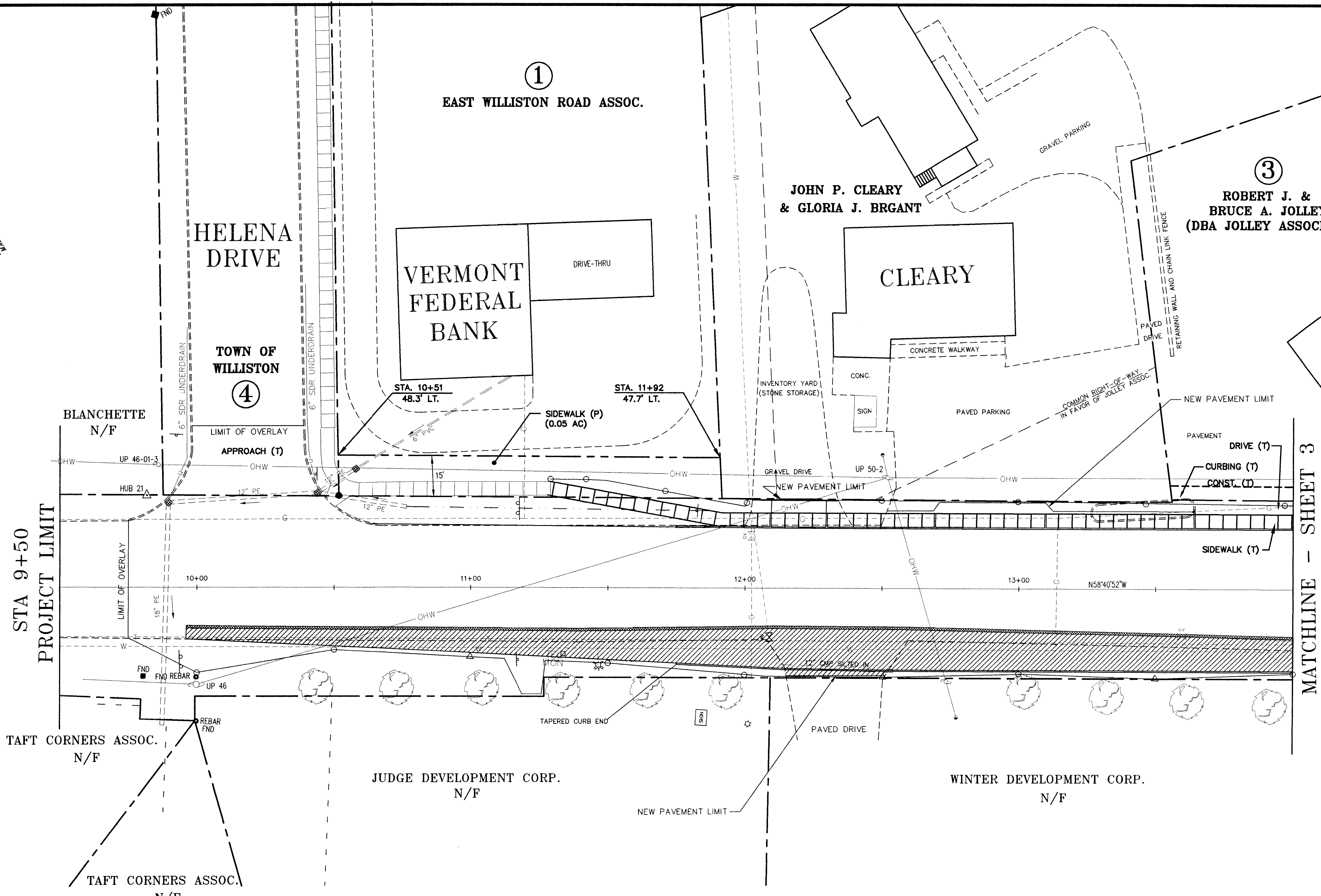
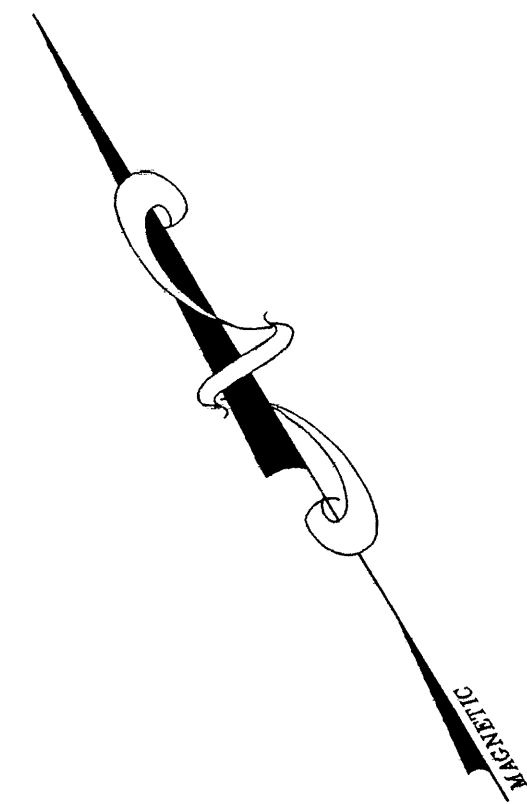
WILLISTON VERMONT

**R.O.W. PLANS**  
DETAIL SHEET

LAMOUREUX & DICKINSON  
 Consulting Engineers Inc.  
 14 Morse Drive  
 Essex Junction, VT 05452  
 (802) 878-4450  
 Engineers-Planners-Surveyors

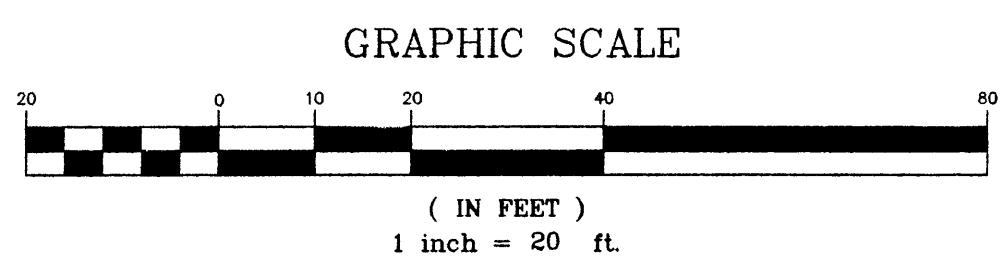
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drawn  
JLC  
checked  
RJD  
scale  
NTS  
sh. no.  
**1A**

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STA 9+50  
PROJECT LIMIT

MATCHLINE - SHEET 3  
STA 14+00



**THIS SHEET FOR  
R.O.W. USE ONLY**

VERMONT AGENCY OF  
TRANSPORTATION  
WILLISTON NHG 5500 (10)S  
"TAFT CORNERS"  
(US ROUTE 2 & VT ROUTE 2A)  
WILLISTON VERMONT

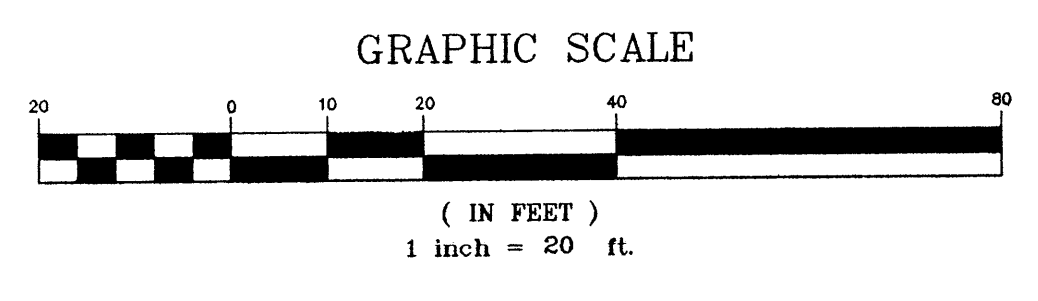
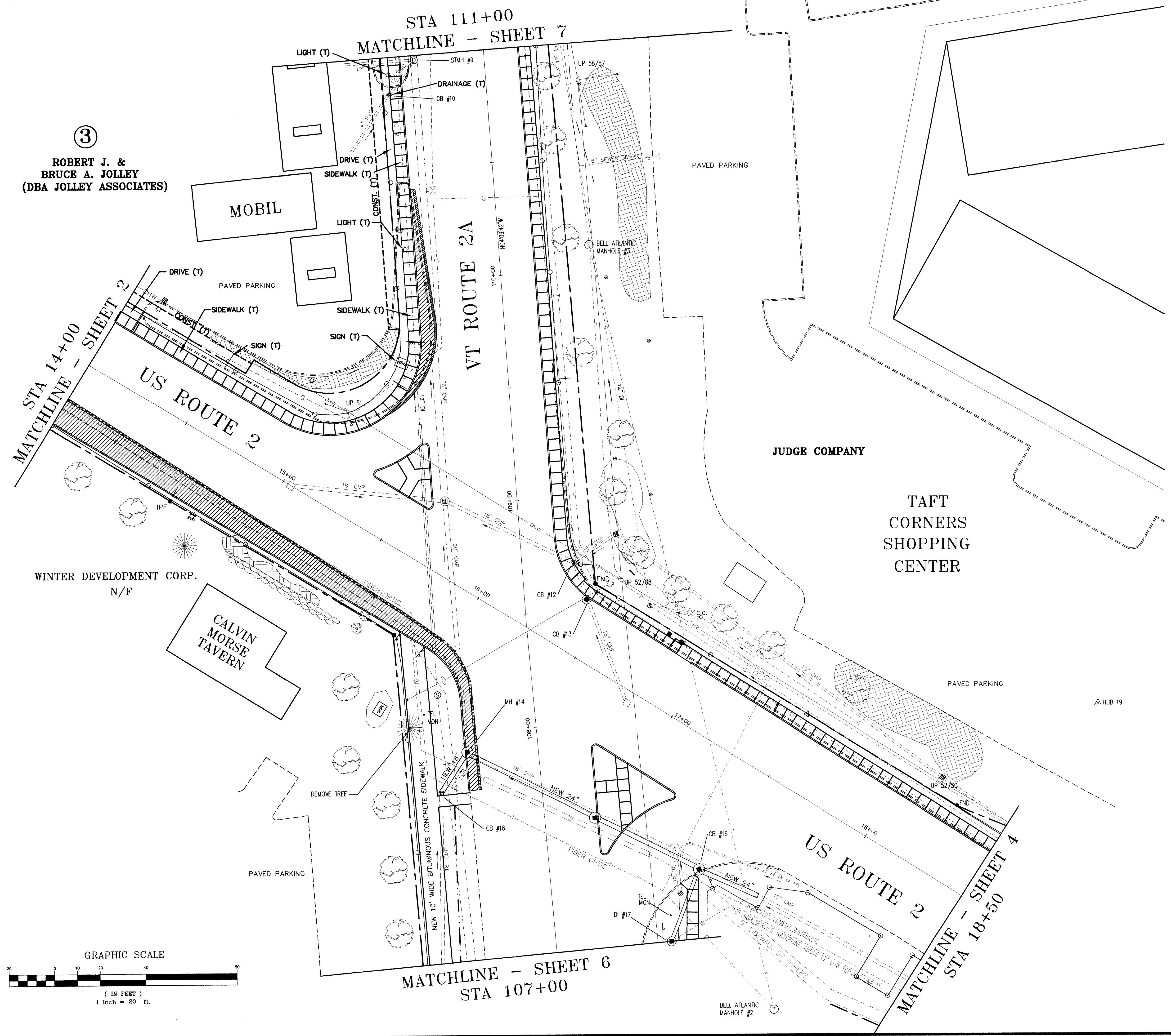
**R.O.W. PLANS**  
HORIZONTAL LAYOUT &  
CONSTRUCTION PLANS

LAMOUREUX & DICKINSON  
Consulting Engineers Inc.  
14 Morse Drive  
Essex Junction, VT 05452  
(802) 878-4450  
Engineers-Planners-Surveyors

design	RJD
drawn	JLC
checked	RJD
scale	1"=20'
sht. no.	2



③  
ROBERT J. &  
BRUCE A. JOLLEY  
(DBA JOLLEY ASSOCIATES)



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VERMONT AGENCY OF  
TRANSPORTATION

WILLISTON NHG 5500 (10)S  
"TAFT CORNERS"  
(US ROUTE 2 & VT ROUTE 2A)

WILLISTON VERMONT

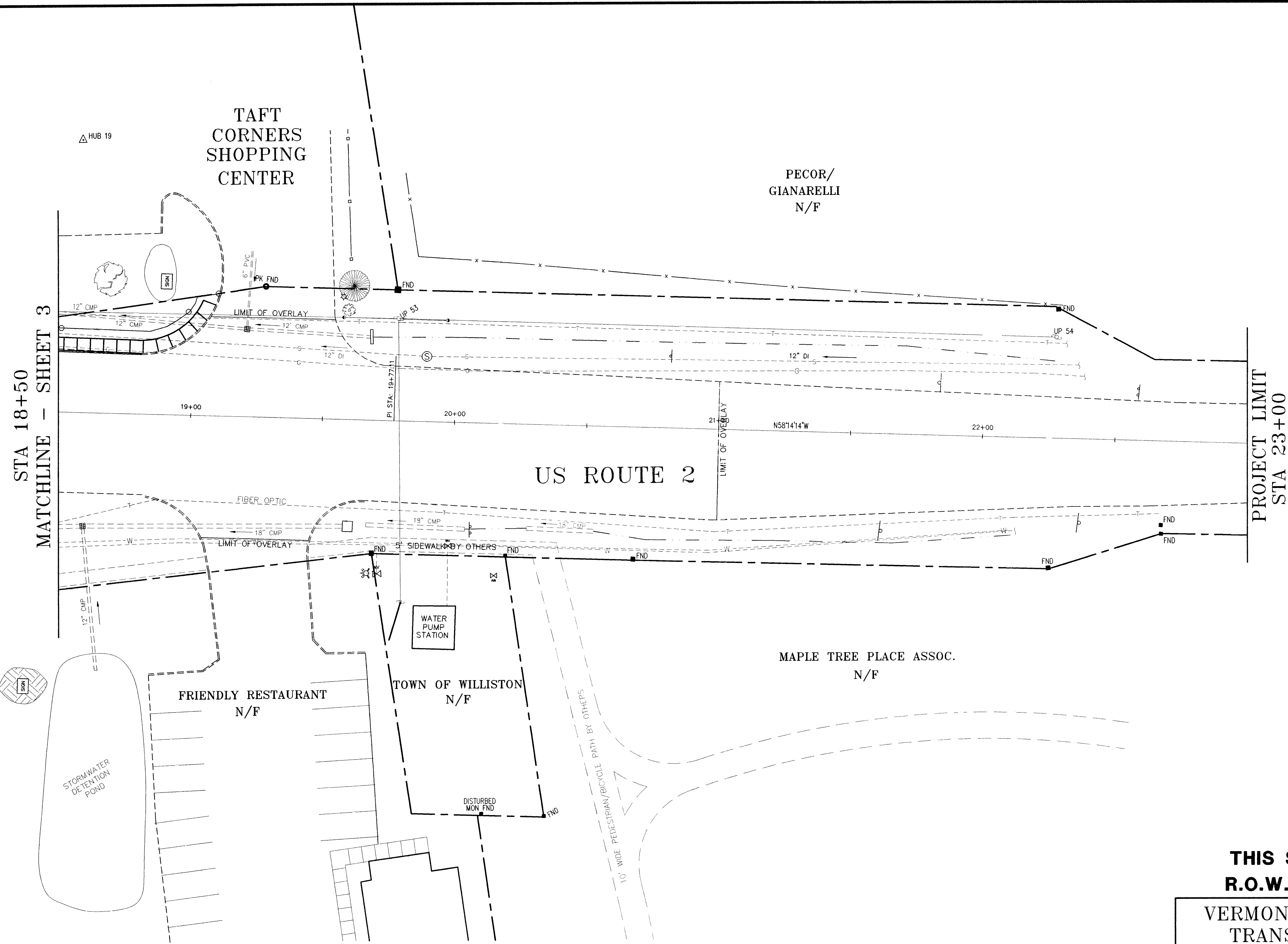
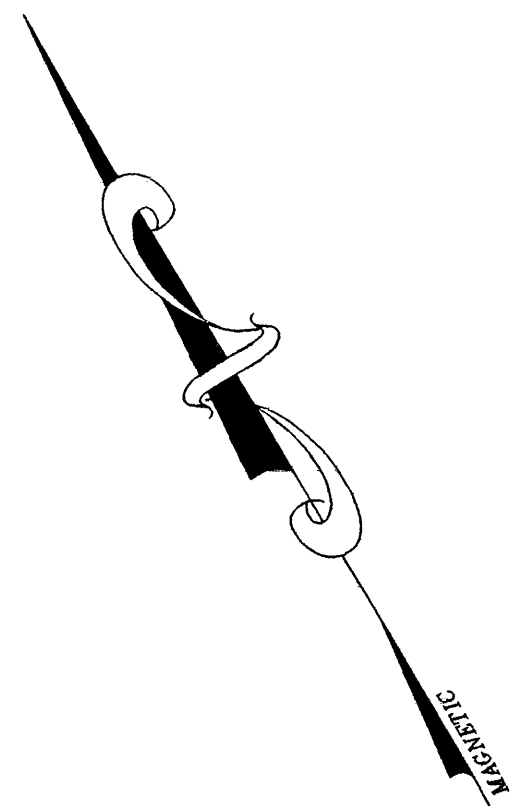
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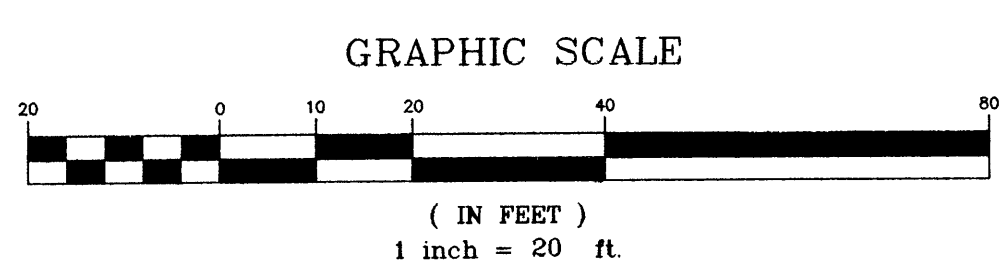
Engineers-Planners-Surveyors

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sh. no.	3



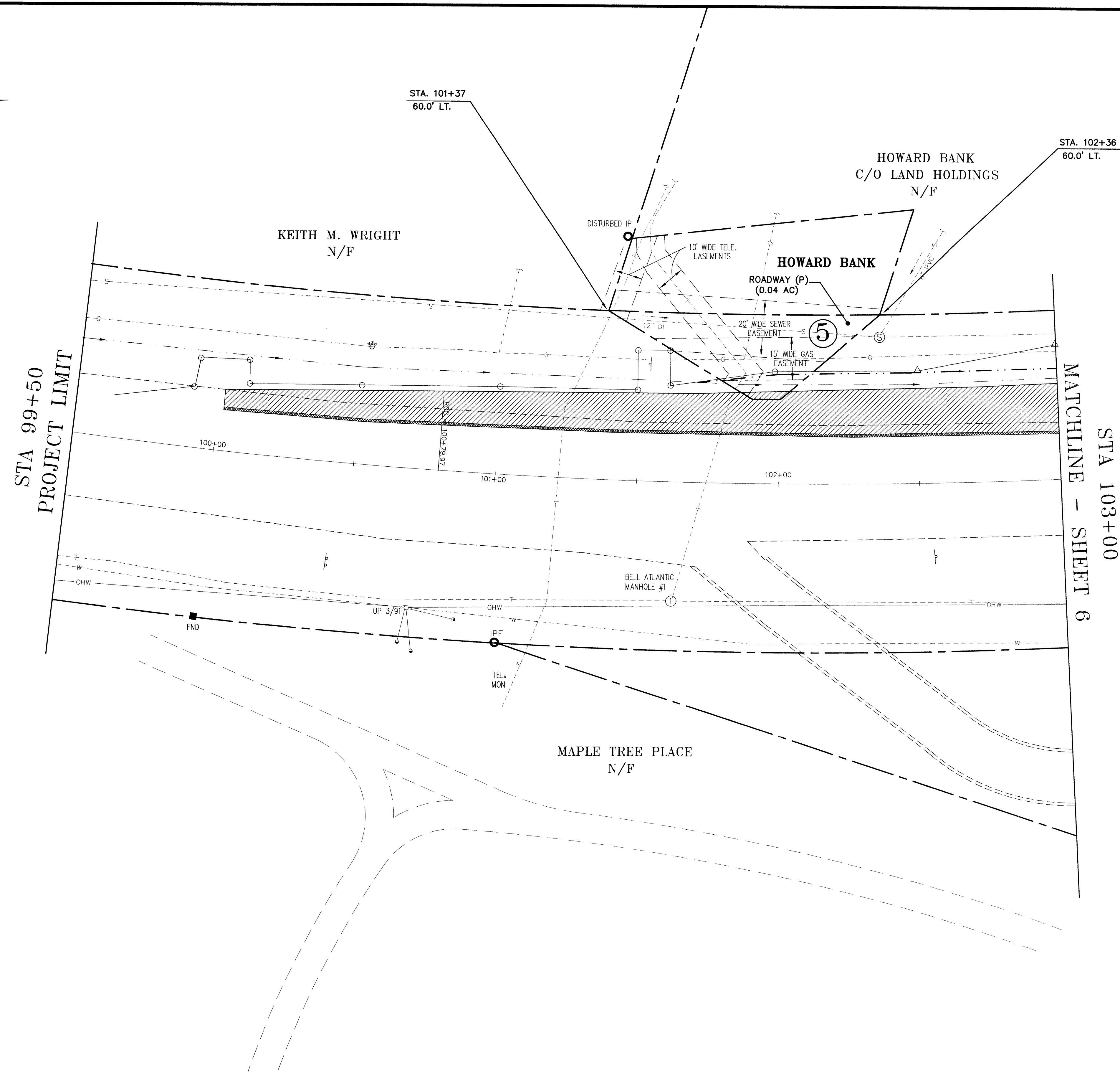
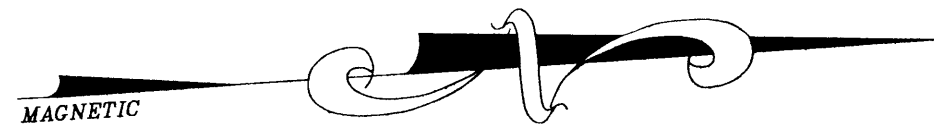
STA 18+50  
MATCHLINE - SHEET 3

PROJECT LIMIT  
STA 23+00



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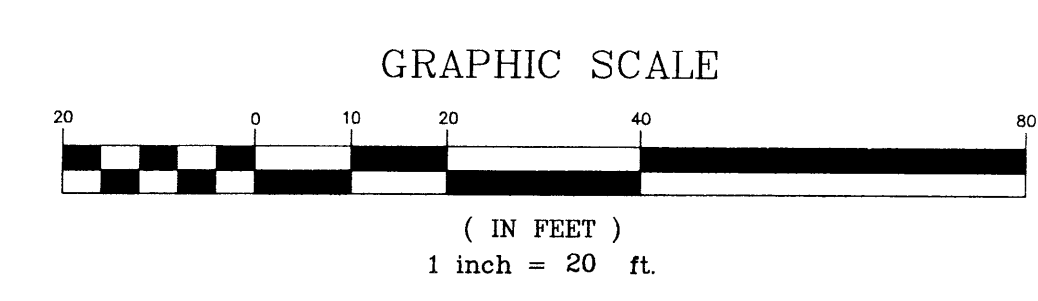
VERMONT AGENCY OF TRANSPORTATION	
WILLISTON NHG 5500 (10)S "TAFT CORNERS" (US ROUTE 2 & VT ROUTE 2A)	
WILLISTON	VERMONT
<b>R.O.W. PLANS</b>	
HORIZONTAL LAYOUT & CONSTRUCTION PLANS	
LAMOUREUX & DICKINSON Consulting Engineers Inc. 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450 <b>Engineers-Planners-Surveyors</b>	
desi gn RJD	drawn JLC
checked RJD	scale 1"=20'
	shet. no. <b>4</b>



NOTE:  
 ALL WORK SOUTH OF STA. 102+50 MAY BE DELETED FROM THE CONTRACT AT THE TIME OF CONTRACT AWARD IF THE NEEDED RIGHT-OF-WAY REQUIRED FROM THE HOWARD BANK HAS NOT YET BEEN OBTAINED.

STA 99+50  
PROJECT LIMIT

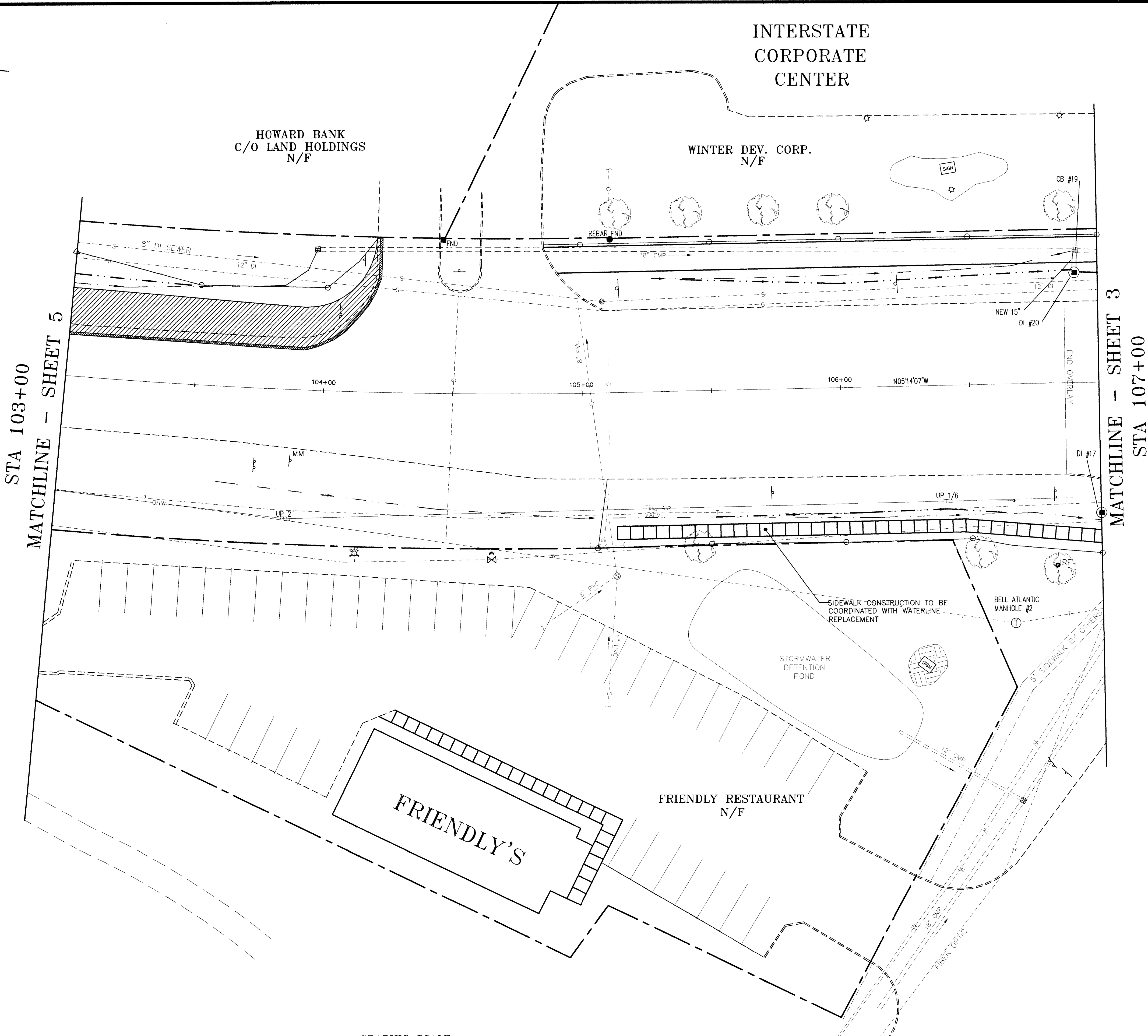
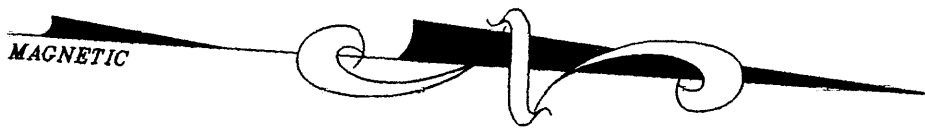
MATCHLINE - SHEET 6  
STA 103+00



**THIS SHEET FOR  
R.O.W. USE ONLY**

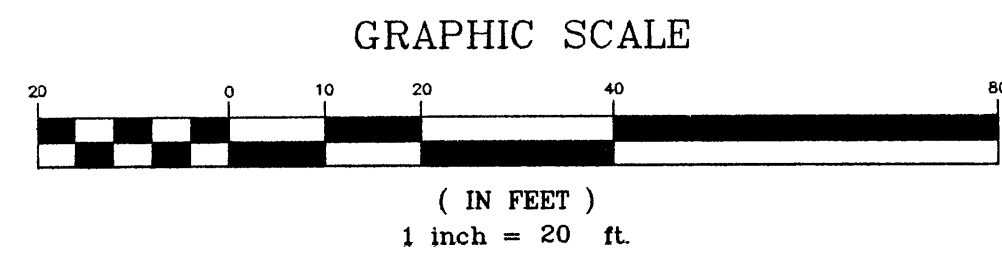
VERMONT AGENCY OF  
TRANSPORTATION  
 WILLISTON NHG 5500 (10)S  
 "TAFT CORNERS"  
 (US ROUTE 2 & VT ROUTE 2A)  
 WILLISTON VERMONT

<b>R.O.W. PLANS</b>		design RJD
HORIZONTAL LAYOUT & CONSTRUCTION PLANS		drawn JLC
		checked RJD
LAMOUREUX & DICKINSON Consulting Engineers Inc. 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450 Engineers-Planners-Surveyors		scale 1"=20'
		sht. no. 5



STA 103+00  
MATCHLINE - SHEET 5

MATCHLINE - SHEET 3  
STA 107+00



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R.O.W. USE ONLY**

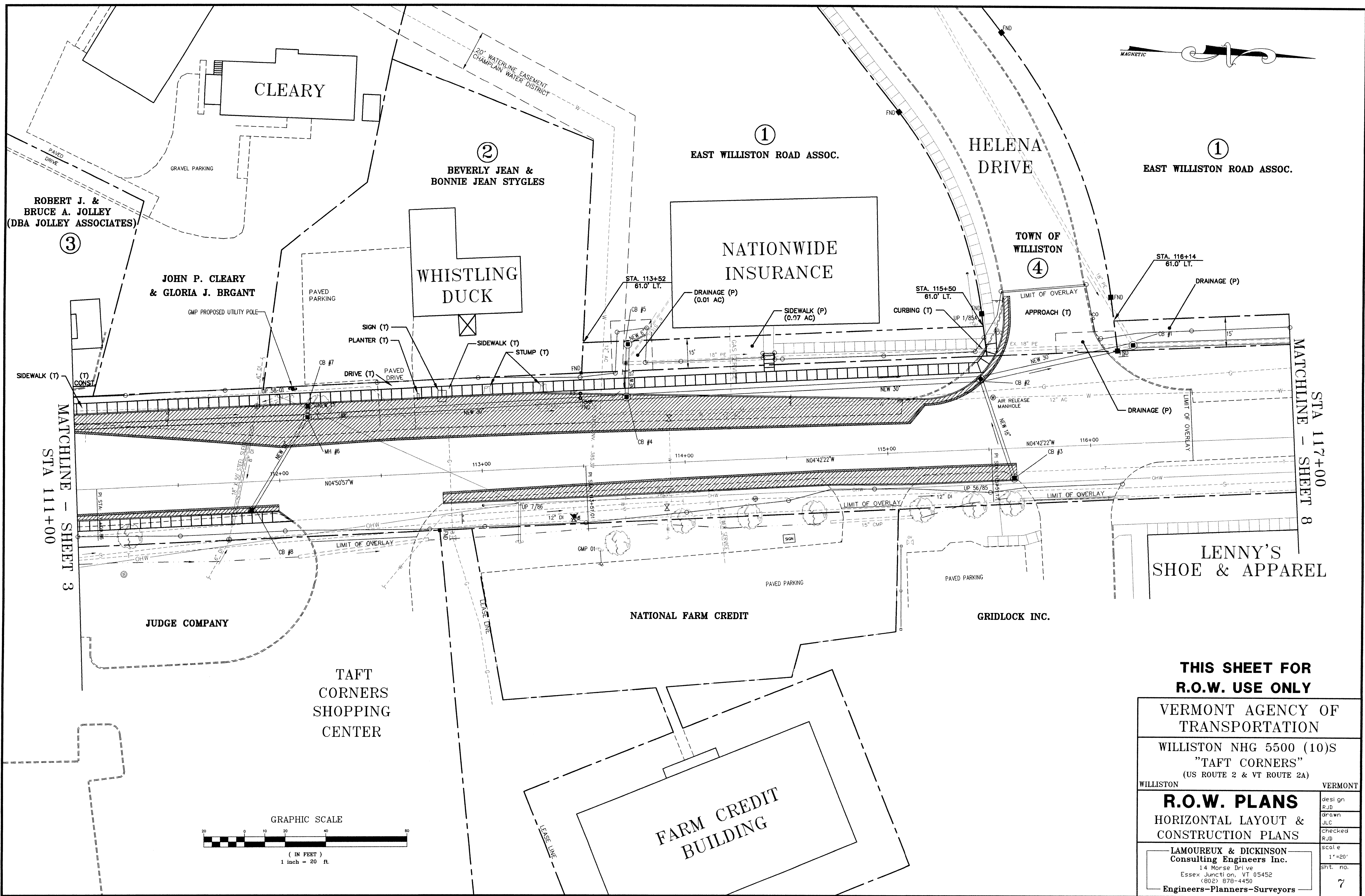
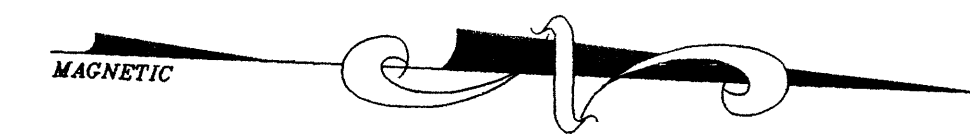
VERMONT AGENCY OF  
TRANSPORTATION  
WILLISTON NHG 5500 (10)S  
"TAFT CORNERS"  
(US ROUTE 2 & VT ROUTE 2A)

WILLISTON VERMONT  
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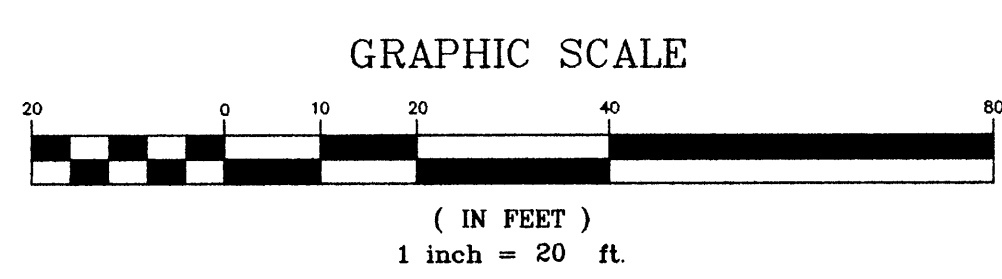
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drawn	JLC
checked	RJD
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sht. no.	6

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MATCHLINE - SHEET 3  
STA 111+00

MATCHLINE - SHEET 8  
STA 117+00



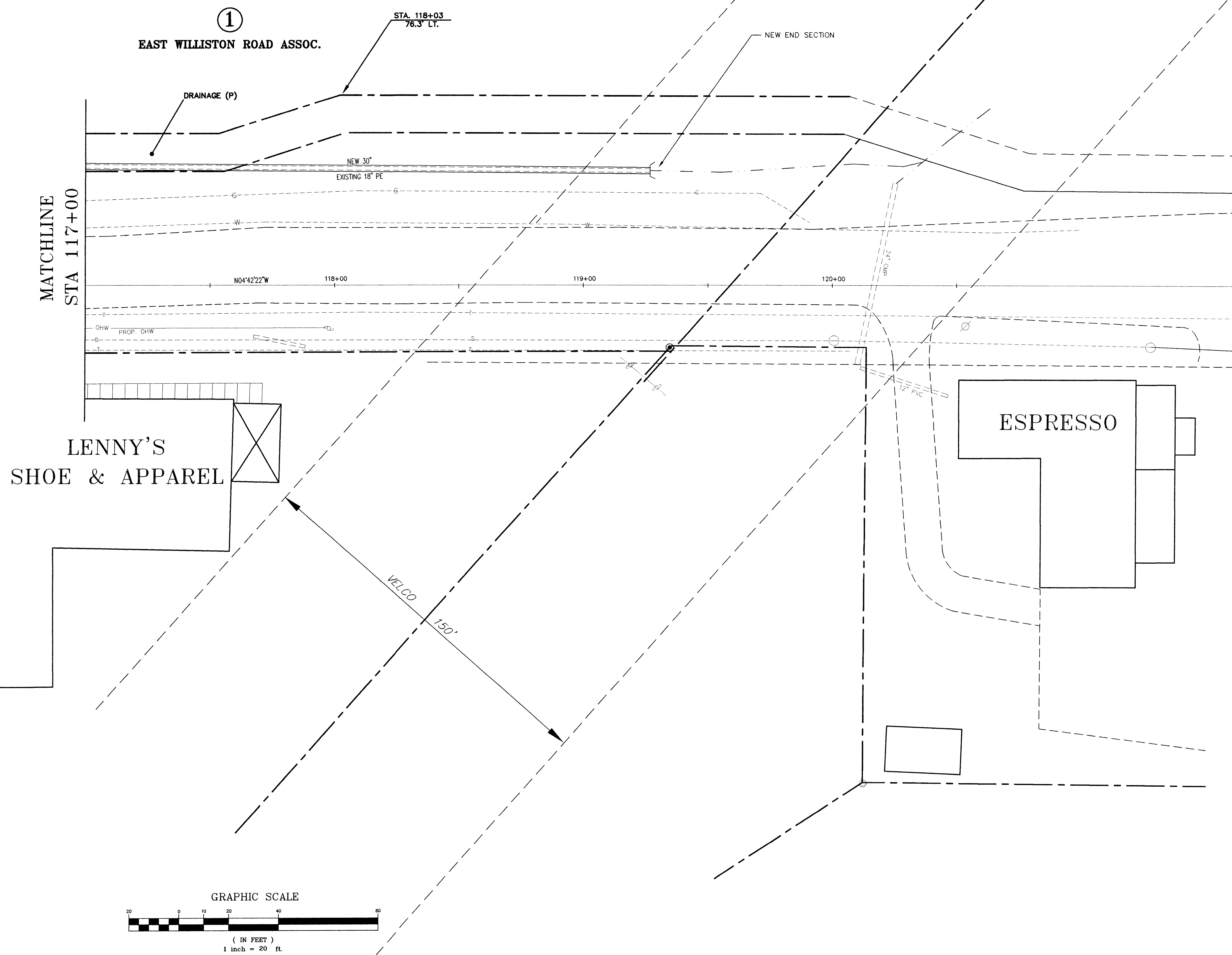
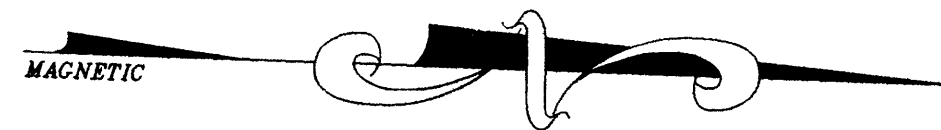
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VERMONT AGENCY OF  
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WILLISTON NHG 5500 (10)S  
"TAFT CORNERS"  
(US ROUTE 2 & VT ROUTE 2A)

WILLISTON VERMONT  
**R.O.W. PLANS**  
HORIZONTAL LAYOUT &  
CONSTRUCTION PLANS

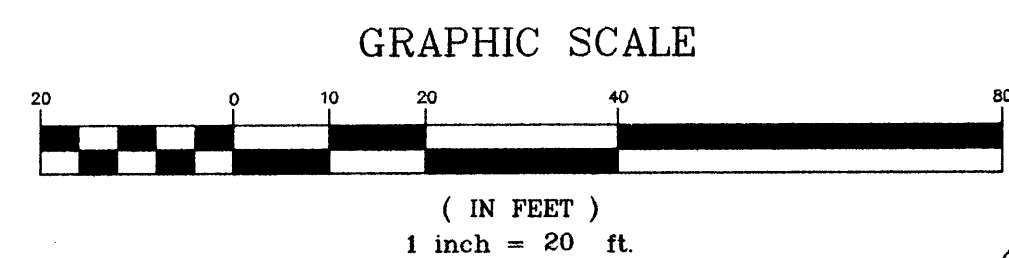
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Consulting Engineers Inc.  
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Essex Junction, VT 05452  
(802) 878-4450  
Engineers-Planners-Surveyors

design  
RJD  
drawn  
JLC  
checked  
RJD  
scale  
1"=20'  
sh. no.  
7



LENNY'S  
SHOE & APPAREL

ESPRESSO



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R.O.W. USE ONLY**

VERMONT AGENCY OF TRANSPORTATION	
WILLISTON NHG 5500 (10)S "TAFT CORNERS" (US ROUTE 2 & VT ROUTE 2A)	
WILLISTON	VERMONT
<b>R.O.W. PLANS</b>	
HORIZONTAL LAYOUT & CONSTRUCTION PLANS	
LAMOUREUX & DICKINSON Consulting Engineers Inc. 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450 Engineers-Planners-Surveyors	
desi gn RJD drawn JLC checked RJD scale 1"=20' sh. no.	<b>8</b>