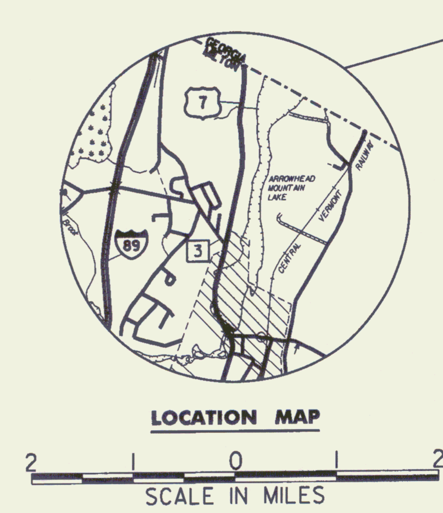
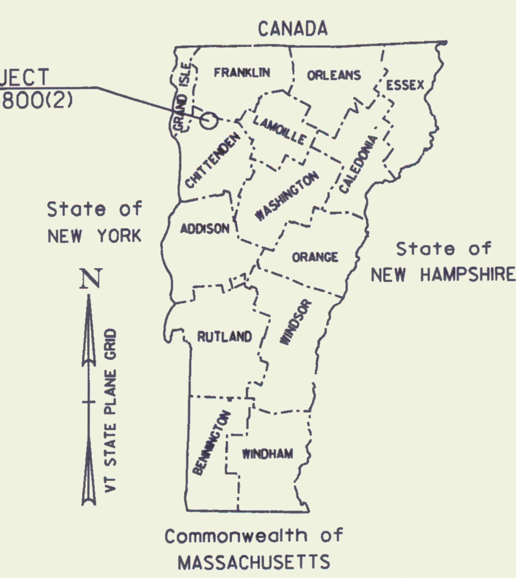
STATE OF VERMONT
AGENCY OF TRANSPORTATION

PROPOSED IMPROVEMENT
TOWN OF MILTON
COUNTY OF CHITTENDEN
US ROUTE 7 - MINOR ARTERIAL





RECORD PLANS

CONTRACTOR: MUNSON EARTH MOVING CORP. – WILLISTON, VT
RESIDENT ENGINEER: GREG WILCOX
CONSTRUCTION BEGAN: JUNE 10, 2011
CONSTRUCTION COMPLETE: MAY 18, 2012
RECORD PLANS BY: GREG WILCOX & C. PIERCE

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

BY Greg L. Wilcox RESIDENT ENGINEER
DATE 5/23/13

NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found at Central Files in the electronic archives.

BITUMINOUS CONCRETE PAVEMENT SUPERPAVE MIXTURE DESIGN CRITERIA	
DESIGN LANE / DESIGN LIFE ESAL	1,405,200
DESIGN NUMBER OF GYRATIONS	65
PERFORMANCE GRADE ASPHALT BINDER	SEE SECTION 490 GENERAL SPECIAL PROVISIONS

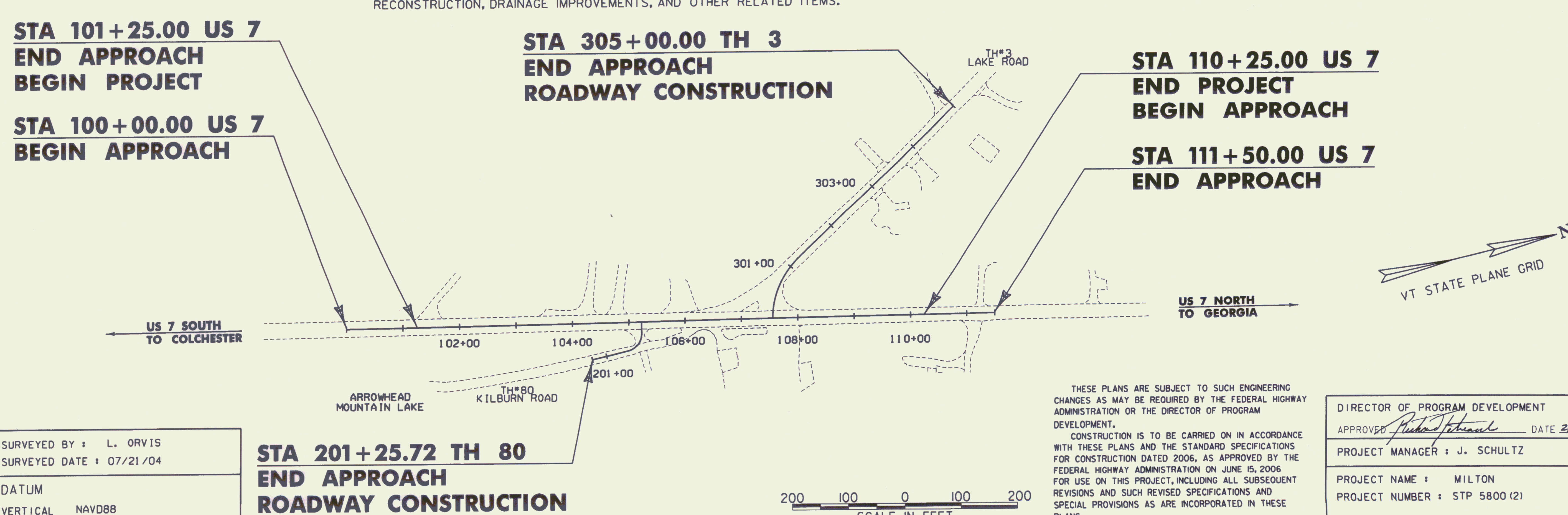
BEGINNING AT A POINT, IN THE TOWN OF MILTON, APPROXIMATELY 5.775 MILES NORTH OF THE COLCHESTER/MILTON TOWN LINE AND EXTENDING NORTHERLY 0.170 MILES TO APPROXIMATE MILE MARKER 5.945.

LENGTH OF ROADWAY: 900 FEET = 0.170 MILES
LENGTH OF PROJECT: 900 FEET = 0.170 MILES

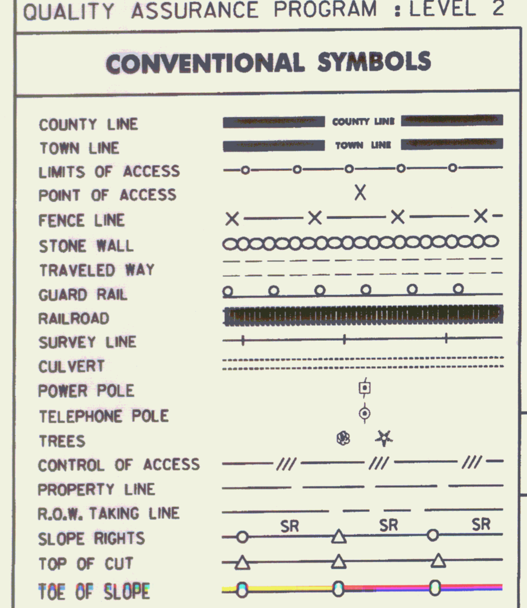
THE PROJECT SHALL CONSIST OF INTERSECTION REALIGNMENT, FULL DEPTH ROADWAY RECONSTRUCTION, DRAINAGE IMPROVEMENTS, AND OTHER RELATED ITEMS.

TRAFFIC DATA

LOCATION	AADT		DHV	ADTT	%T	%D	ESALS	ESALS	V
	2011	2031	2031	2031	2031	2031	(2011 - 2031)	(2011 - 2051)	
US ROUTE 7 NORTH APPROACH	4,200	4,800	600	660	10	60	2,342,000	5,353,000	40 MPH
US ROUTE 7 SOUTH APPROACH	6,900	7,800	970	480	2	67	1,900,000	4,550,000	40 MPH
LAKE ROAD WEST APPROACH	4,400	5,000	620	270	6	68	815,000	1,616,000	35 MPH
COMMERCIAL BUILDING EAST APPROACH	750	840	90	70	8	52	147,000	342,000	N/A



QUALITY ASSURANCE PROGRAM : LEVEL 2



SURVEYED BY : L. ORVIS
SURVEYED DATE : 07/21/04

DATUM
VERTICAL NAVD88
HORIZONTAL NAD83(96)

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

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

DIRECTOR OF PROGRAM DEVELOPMENT
APPROVED Richard Tetreault DATE 2/23/11

PROJECT MANAGER : J. SCHULTZ

PROJECT NAME : MILTON
PROJECT NUMBER : STP 5800 (2)

STATE OF VERMONT
AGENCY OF TRANSPORTATION

INDEX OF SHEETS

INDEX OF SHEETS

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B-12	SIDE ROAD INTERSECTION, DEPRESSED RAMP	6/1/1994
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C-10	CURBING	2/11/2008
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E-103	MAINLINE TRAFFIC CONTROL DIVIDED HIGHWAY ONE LANE CLOSED	3/1/2004
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PROJECT NAME:	MILTON
PROJECT NUMBER:	STP 5800 (2)

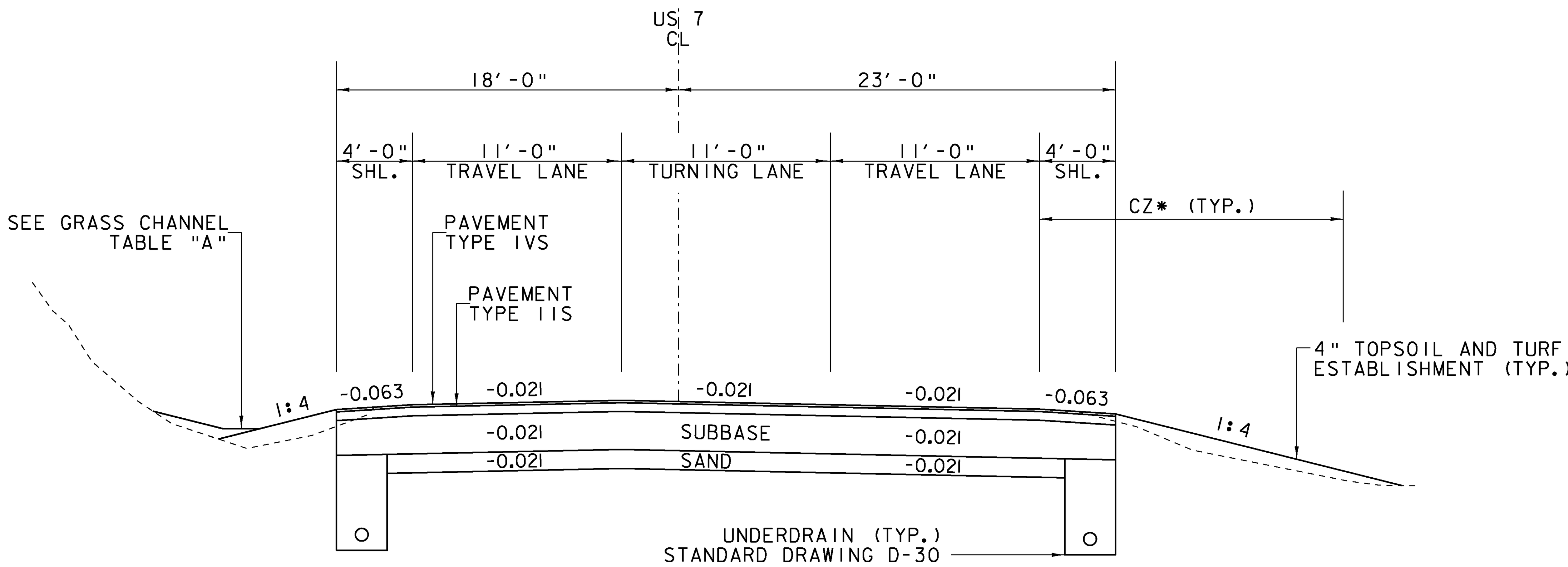
FILE NAME: t92D289.frm.dgn
PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ
DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN
CHECKED BY: J. DEVLIN
INDEX OF SHEETS

MATERIAL TOLERANCES		
PAVEMENT	(TOTAL DEPTH):	+/- 1/4 in
SUBBASE	(TOTAL DEPTH):	+/- 1 in
SAND	(TOTAL DEPTH):	+/- 1 in

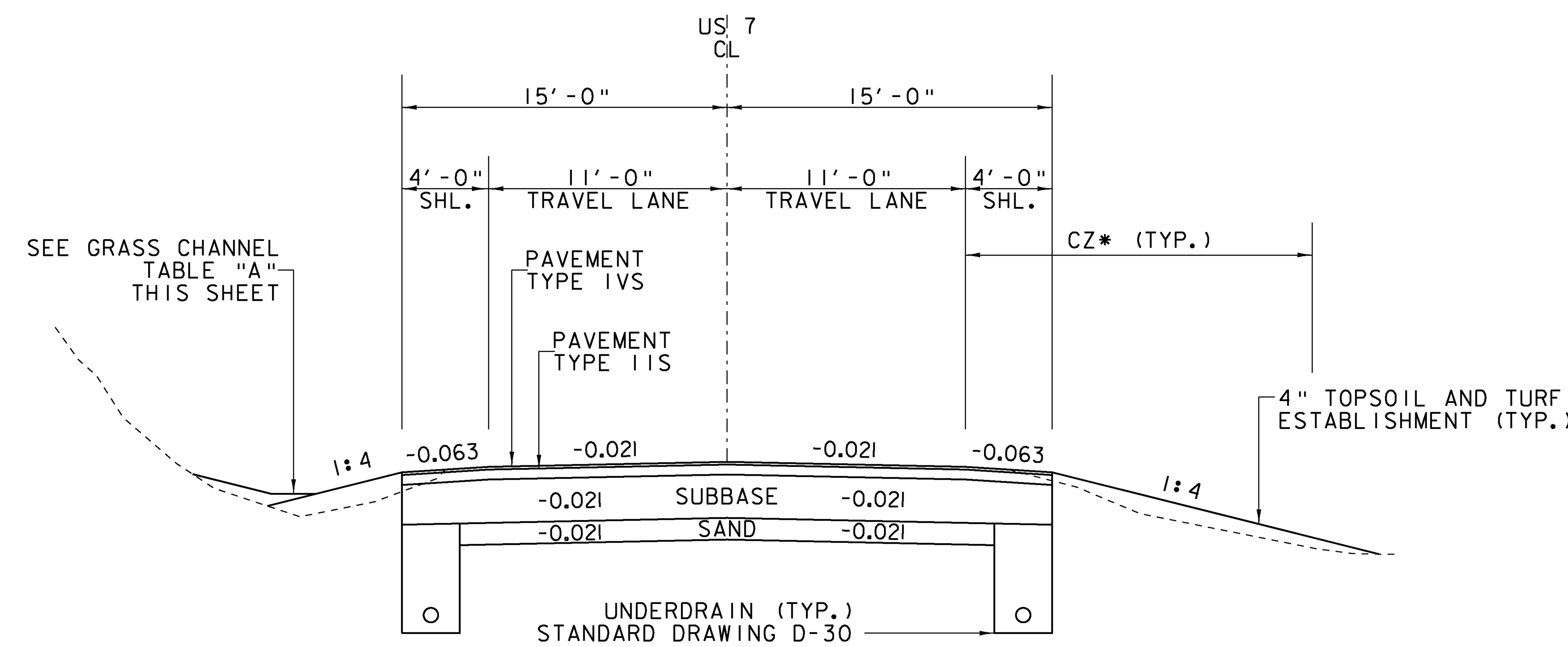
US ROUTE 7
TYPICAL SECTIONS

NOT TO SCALE

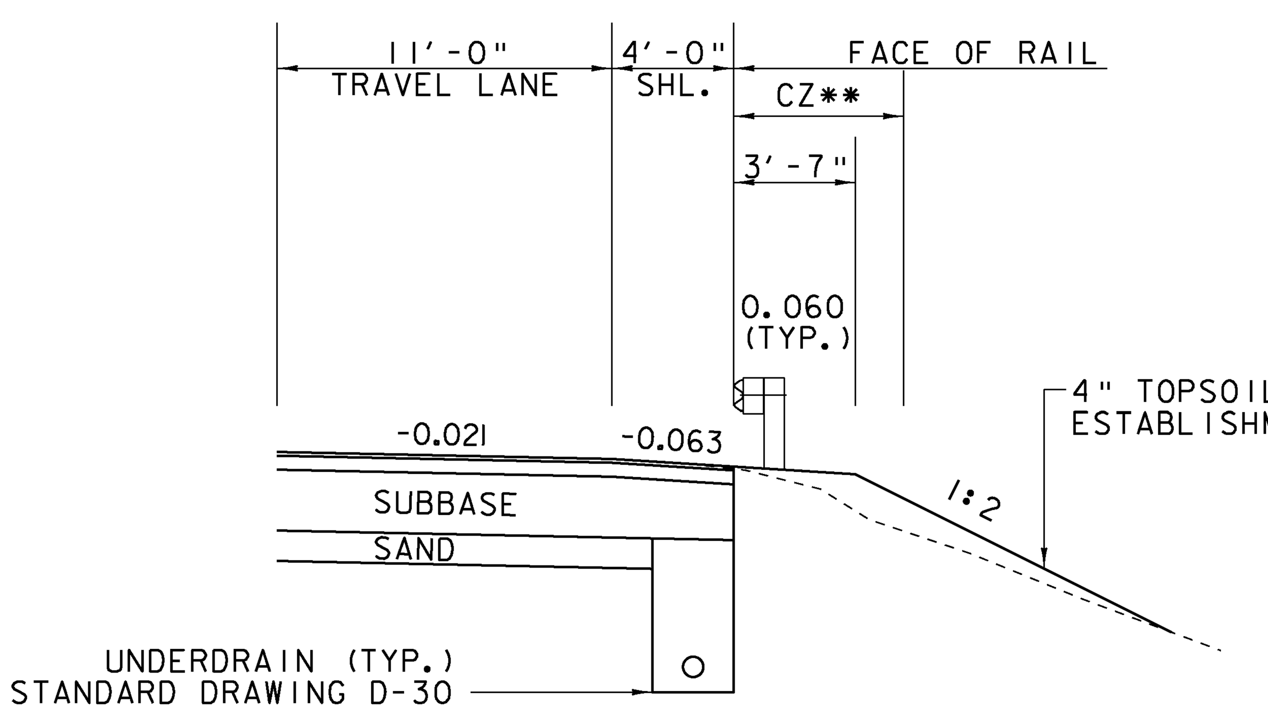
1.5" TYPE IVS SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (1 - 1.5" PAVEMENT LIFT)
5.5" TYPE IIS SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (2 - 2.75" PAVEMENT LIFTS)
24" SUBBASE OF DENSE GRADED CRUSHED STONE
12" SAND BORROW



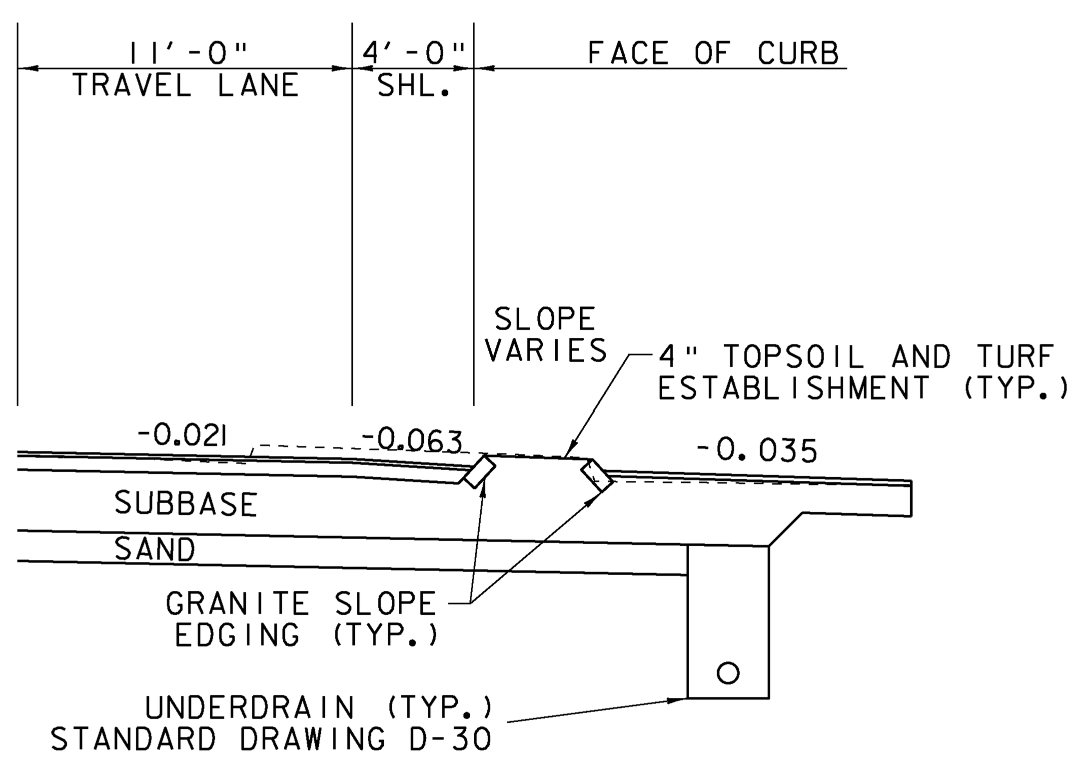
3 - LANE TYPICAL SECTION
US ROUTE 7



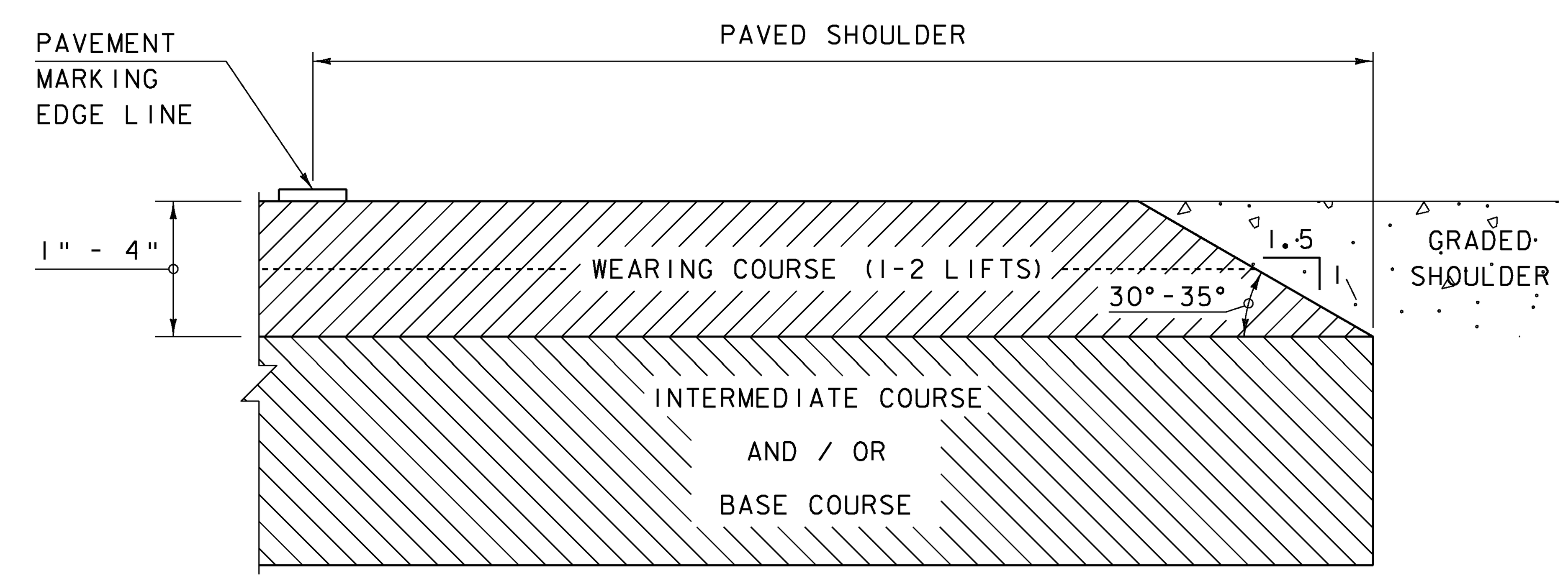
2 - LANE TYPICAL SECTION
US ROUTE 7



GUARDRAIL TYPICAL SECTION
US ROUTE 7



CURB TYPICAL SECTION
US ROUTE 7



SAFETY EDGE DETAIL

NOT TO SCALE

NOTE: LEVELING COURSE MAY INCLUDE THE "SAFETY EDGE" AT THE CONTRACTOR'S CHOICE.

GRASS CHANNEL TABLE "A"

STATIONS	FORESLOPE	BOTTOM WIDTH (FT)	BACKSLOPE
100+50.00 LT - 101+28.69 LT	1:4	2	1:3
101+75.00 LT - 102+60.00 LT	1:4	2	1:3
103+47.00 LT - 104+04.00 LT	1:4	2	1:4
105+02.00 LT - 105+68.00 LT	1:4	2	1:4
108+42.00 LT - 111+00.00 LT	1:4	2	1:4

CLEAR ZONE (CZ) TABLE

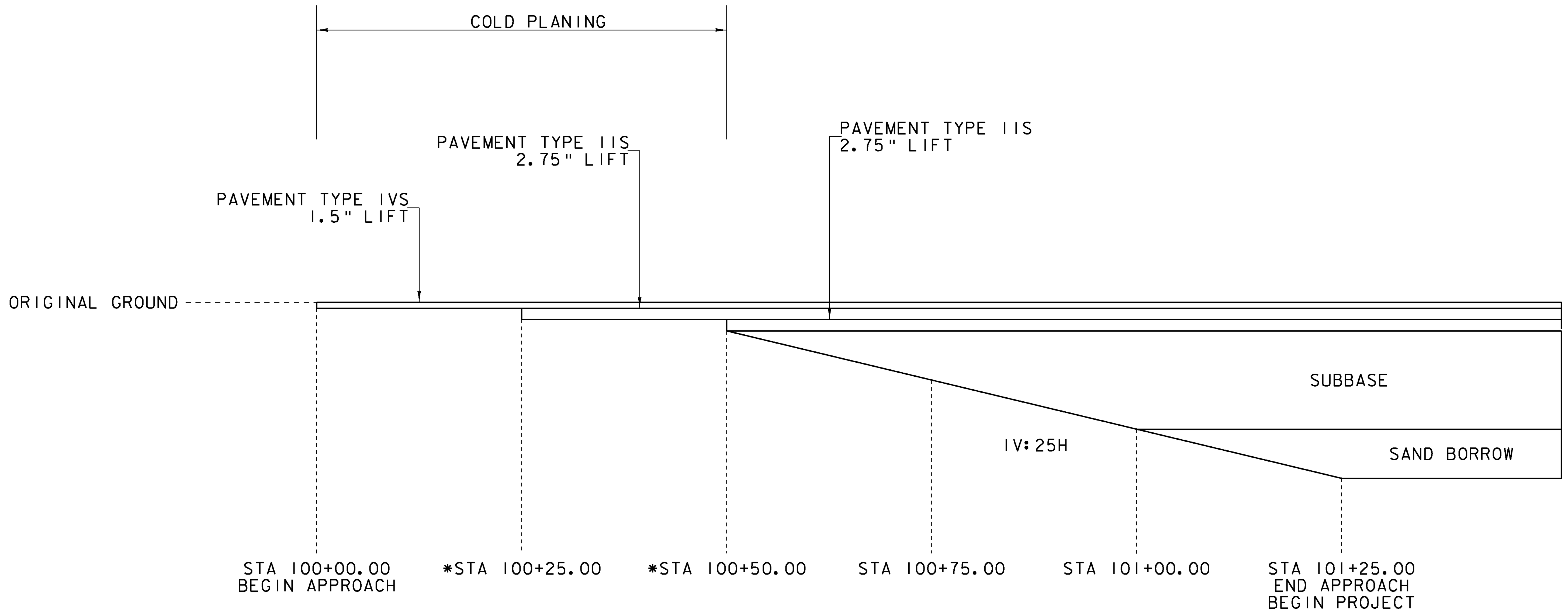
APPROACH	DISTANCE (FT)
US ROUTE 7 3-LANE TYPICAL SECTION	16*
US ROUTE 7 2-LANE TYPICAL SECTION	16*
US ROUTE 7 GUARDRAIL TYPICAL SECTION	5**

* DISTANCE MEASURED FROM EDGE OF TRAVELED LANE
** DISTANCE MEASURED FROM THE FACE OF GUARDRAIL

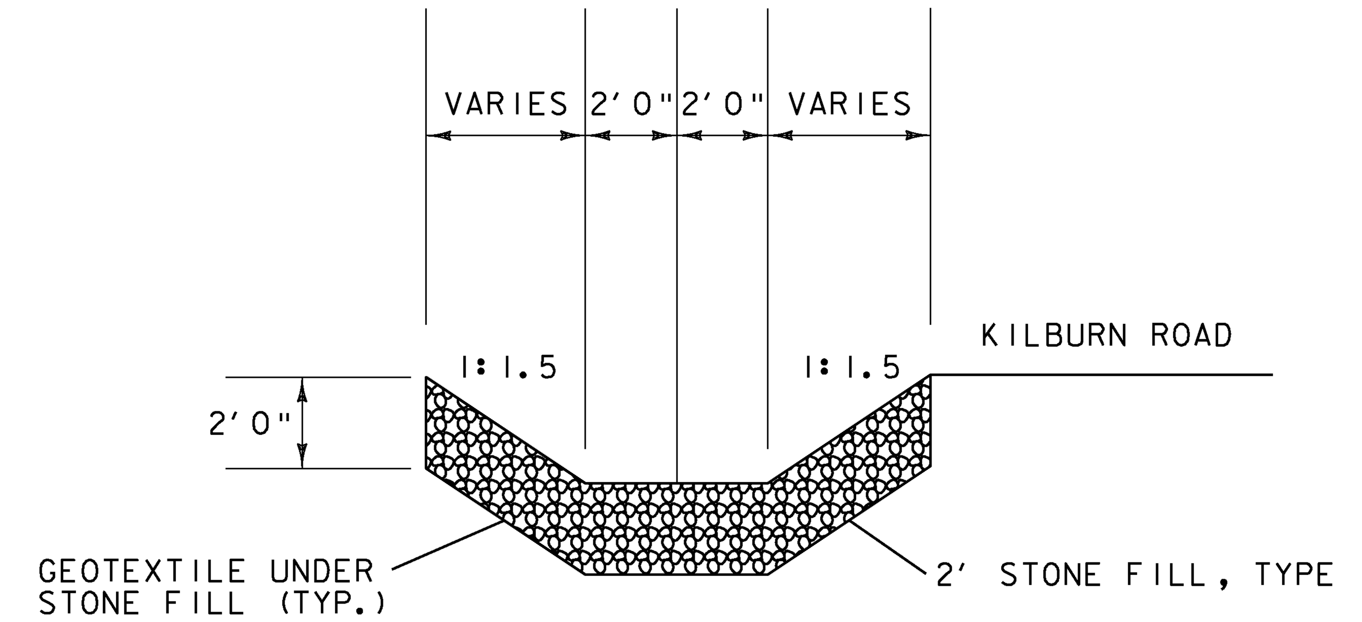
PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92d289typ.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
TYPICAL SHEET 1	SHEET 3 OF 104

*FIELD CONDITIONS WILL DETERMINE THE LOCATION OF THE BEGIN AND END OF THE CONCRETE ROADBED REMOVAL. FULL PAVEMENT DEPTH IS REQUIRED AT THE LOCATION OF THE BEGIN AND END OF CONCRETE ROADBED, STATIONS MAY BE ADJUSTED AS NECESSARY TO ACCOMPLISH THIS.

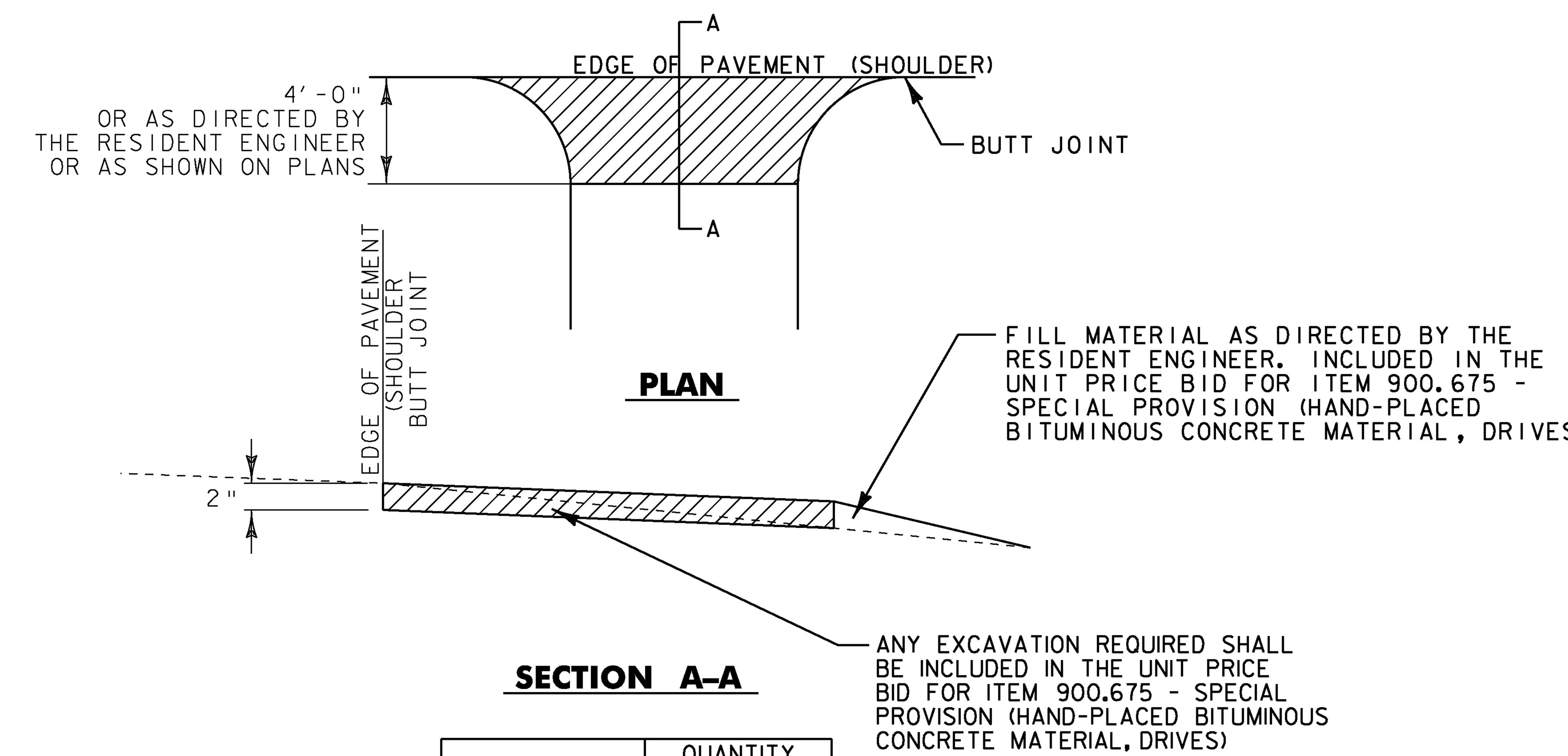
MATERIAL TOLERANCES	
PAVEMENT (TOTAL DEPTH):	+/- 1/4 in
SUBBASE (TOTAL DEPTH):	+/- 1 in
SAND (TOTAL DEPTH):	+/- 1 in

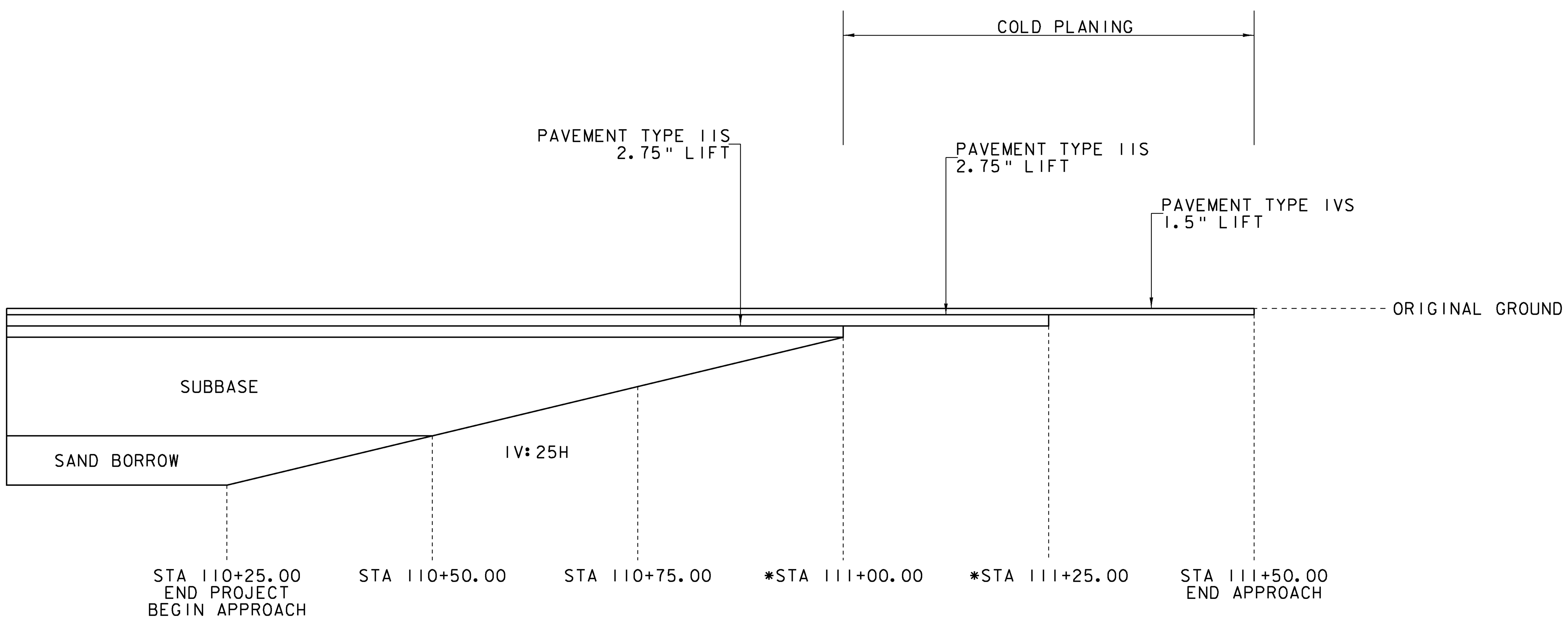


US ROUTE 7
BEGIN PROJECT MATERIAL TRANSITION DETAIL



TYPICAL CHANNEL SECTION
US ROUTE 7
STA 101+15.90 RT - 102+92.76 RT
NOT TO SCALE





US ROUTE 7
END PROJECT MATERIAL TRANSITION DETAIL

STATION	QUANTITY (SY)
104+31.22 LT	17.2 SY
104+83.50 LT	14.3 SY
105+87.17 LT	15.7 SY
111+12.33 RT	16.0 SY
111+24.25 LT	8.4 SY
302+97.06 RT	15.8 SY
303+37.16 LT	13.2 SY
303+85.78 RT	16.3 SY
304+83.64 LT	10.1 SY

DRIVE LOCATION SUMMARY

AREAS FOR 900.675 - SPECIAL PROVISION (HAND-PLACED BIT. CONC. MATERIAL, DRIVES)

ITEM NO. 900.675 - SPECIAL PROVISION
(HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)
NOT TO SCALE

PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)

FILE NAME: t92d289typ.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: D. LYMAN
TYPICAL SHEET 2

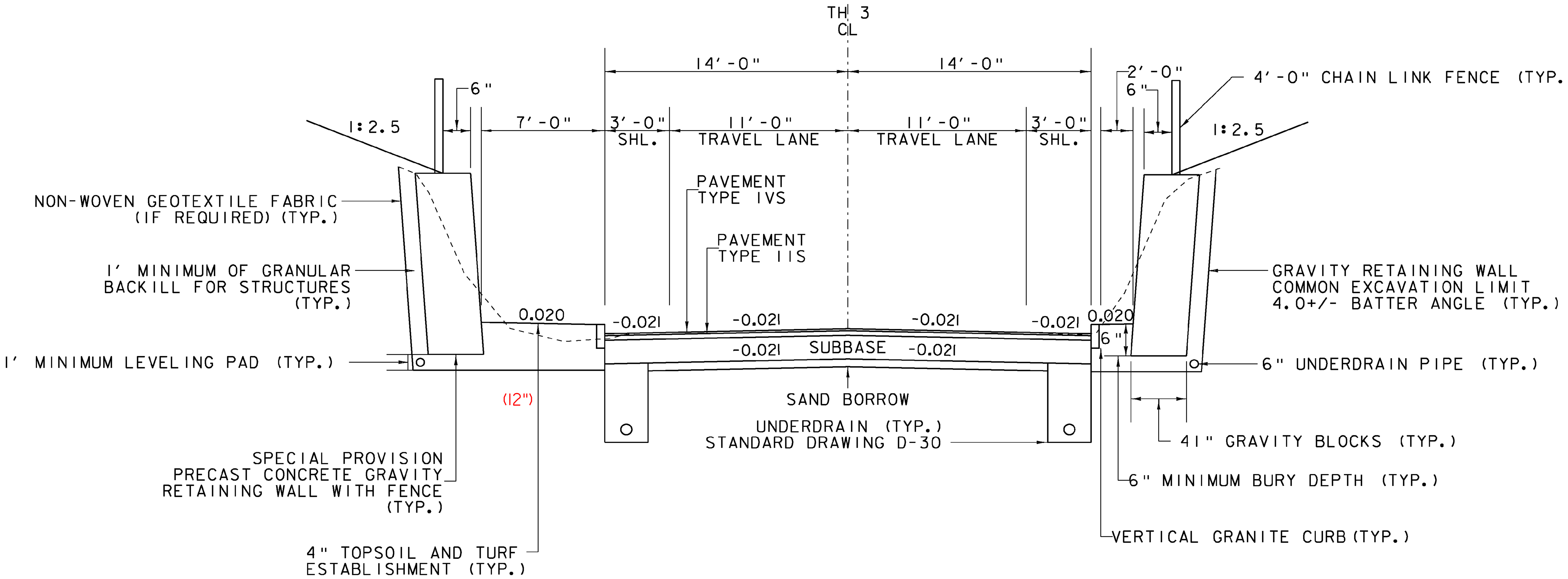
PLOT DATE: 23-FEB-2011
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN

MATERIAL TOLERANCES		
PAVEMENT	(TOTAL DEPTH):	+/- 1/4 in
SUBBASE	(TOTAL DEPTH):	+/- 1 in
SAND	(TOTAL DEPTH):	+/- 1 in

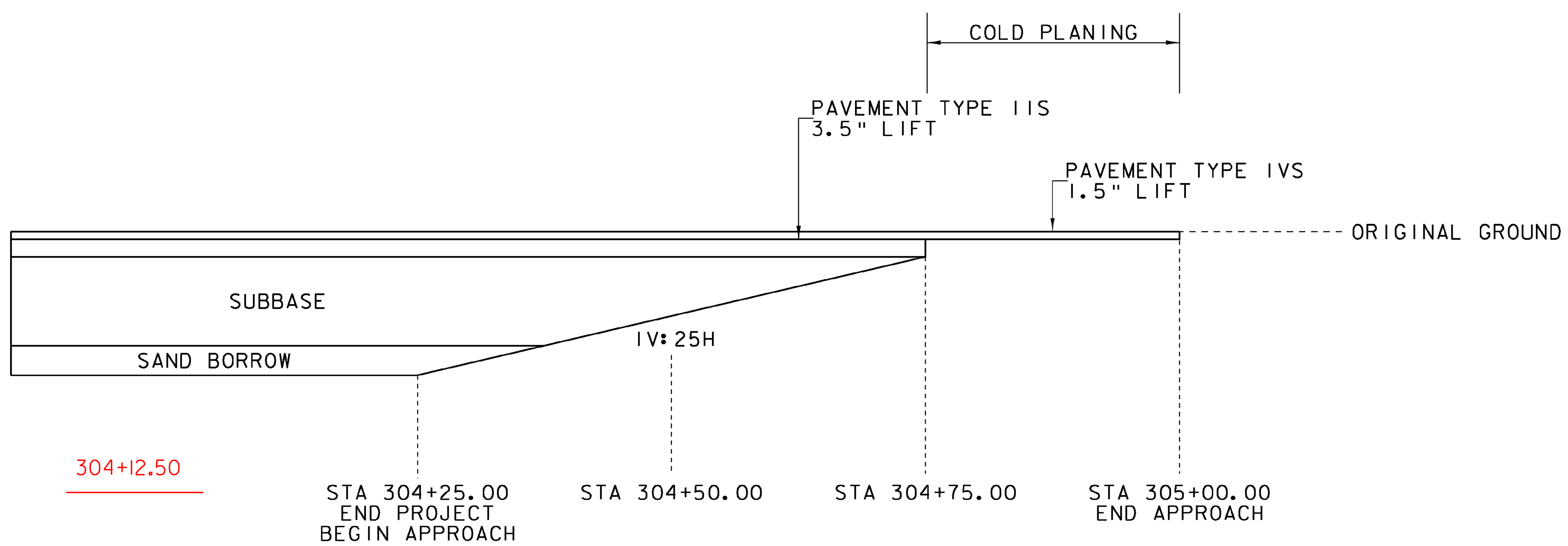
TH 3 - LAKE ROAD
TYPICAL SECTIONS

NOT TO SCALE

1.5" TYPE IVS SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (1 - 1.5" PAVEMENT LIFT)
3.5" TYPE IIS SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (1 -3.5" PAVEMENT LIFT)
18" SUBBASE OF DENSE GRADED CRUSHED STONE
~~6"~~ 12" SAND BORROW PER W.O. #11 (9-13-11)



2 - LANE TYPICAL SECTION
TH 3 - LAKE ROAD



TH 3 - LAKE ROAD
END PROJECT MATERIAL TRANSITION DETAIL

CLEAR ZONE TABLE	
APPROACH	DISTANCE (FT)
TH 3 - CURBED TYPICAL SECTION	1.5*

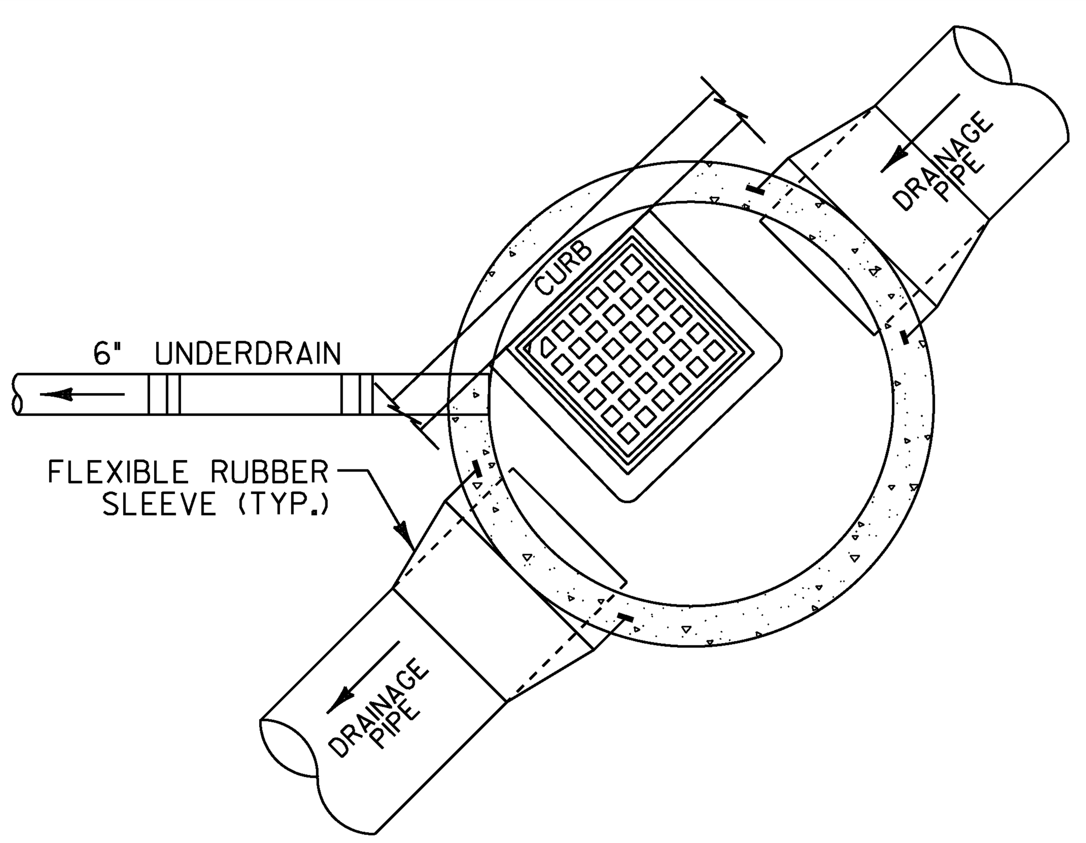
* DISTANCE MEASURED FROM THE FACE OF CURB

SEEDING FORMULA

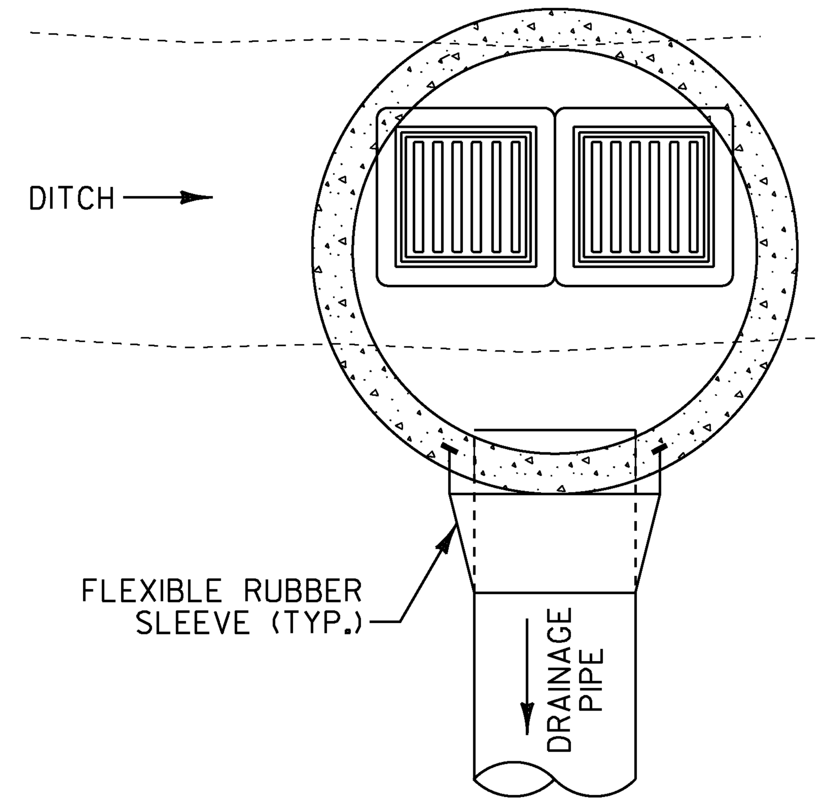
SEE EPSC DETAILS SHEET 2 FOR THE SEEDING FORMULA.

GENERAL NOTES

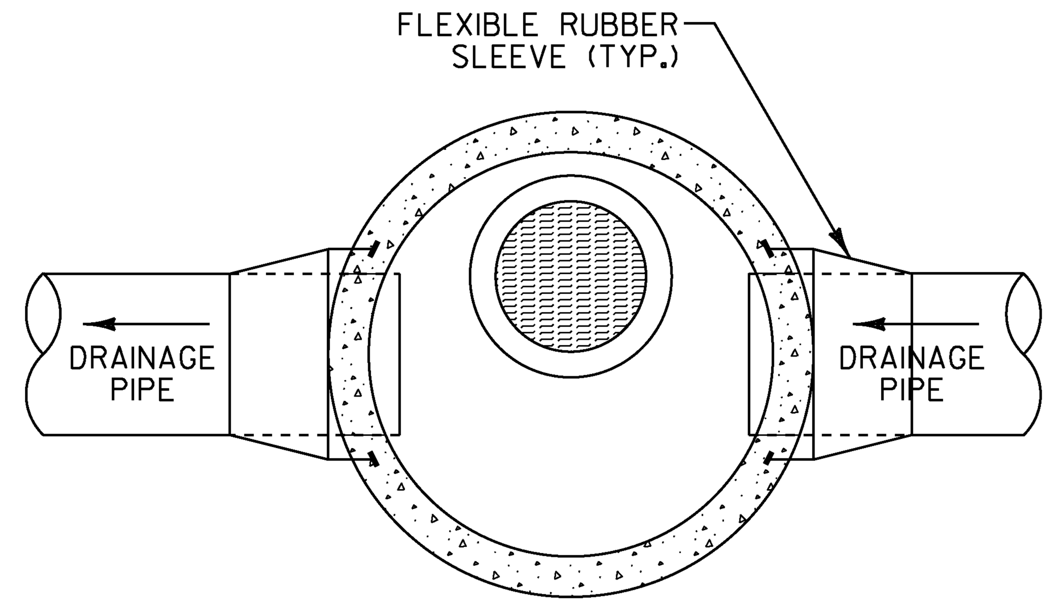
1. ALL MATERIALS AND CONSTRUCTION PRACTICES SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION'S 2006 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND IT'S LATEST REVISIONS.
2. TACK COAT: EMULSIFIED ASPHALT IS TO BE APPLIED AT THE RATE OF 0.040 GAL/SY ON ALL MILLED SURFACES AND AT A RATE OF 0.25 G/SY BETWEEN SUCCESSIVE COURSES OF PAVEMENT AS DIRECTED BY THE ENGINEER.
3. MARKER POSTS: TO BE PLACED AS INDICATED OR AS DIRECTED BY THE ENGINEER.
4. SLOPE ROUNDING: ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD B-5.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL ARRANGEMENTS FOR ANCHORING, SUPPORTING AND/OR RELOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICES BID. IN THE CASE OF DAMAGE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL REPAIRS.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF THE EXISTING FEATURES AND STRUCTURES WITHIN AND ADJACENT TO THE WORK. IN THE CASE OF DAMAGE, THE REPAIRS OR REPLACEMENT SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AS APPROVED BY THE ENGINEER.
7. ALL WORK MUST COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS AND IN THE CASE THERE ARE CONFLICTING REGULATIONS THE MORE CONSERVATIVE OR STRICTER REGULATION WILL TAKE PRECEDENCE.
8. ANY DISCREPENCIES BETWEEN THESE DRAWINGS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
9. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ANY EXISTING STRUCTURES OR PIPES, WHICH CONNECT TO PIPES THAT ARE SPECIFIED TO BE PLUGGED, FILLED OR ABANDONED. IN THE EVENT THAT ADJOINING STRUCTURES OR PIPES ARE FOUND IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK. ALL SUCH WORK SHALL BE PAID UNDER ITEM 204.22 TRENCH EXCAVATION, EXPLORATORY.
10. WATER REPELLENT SILANE SHALL BE APPLIED TO ALL EXPOSED CONCRETE HEADWALL SURFACES.
11. ALL ASSOCIATED RETAINING WALL EXCAVATION SHALL ONLY INCLUDE AN AREA WHERE THE CORRESPONDING RETAINING WALL CAN BE CONSTRUCTED AND BACKFILLED WITHIN THE SAME WORKING DAY OR AS APPROVED BY THE ENGINEER.
12. THE CONTRACTOR MAY SUBSTITUTE SUBBASE MATERIAL FOR THE SAND BORROW SHOWN ON THE PLANS. THE SUBBASE MATERIAL SHALL MEET THE TYPE SPECIFIED IN THE CONTRACT AND BE PLACED TO MEET THE SUBBASE SPECIFICATIONS. IF PLACEMENT OF SUBBASE IS IN LIEU OF SAND BORROW PLACE A GEOTEXTILE MEETING THE REQUIREMENTS OF SECTION 649 FOR GEOTEXTILE FOR ROADBED SEPARATOR BETWEEN THE SUBGRADE AND THE SUBBASE MATERIAL. ALL COSTS ASSOCIATED WITH THE SUBSTITUTION INCLUDING THE GEOTEXTILE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203.31 SAND BORROW.



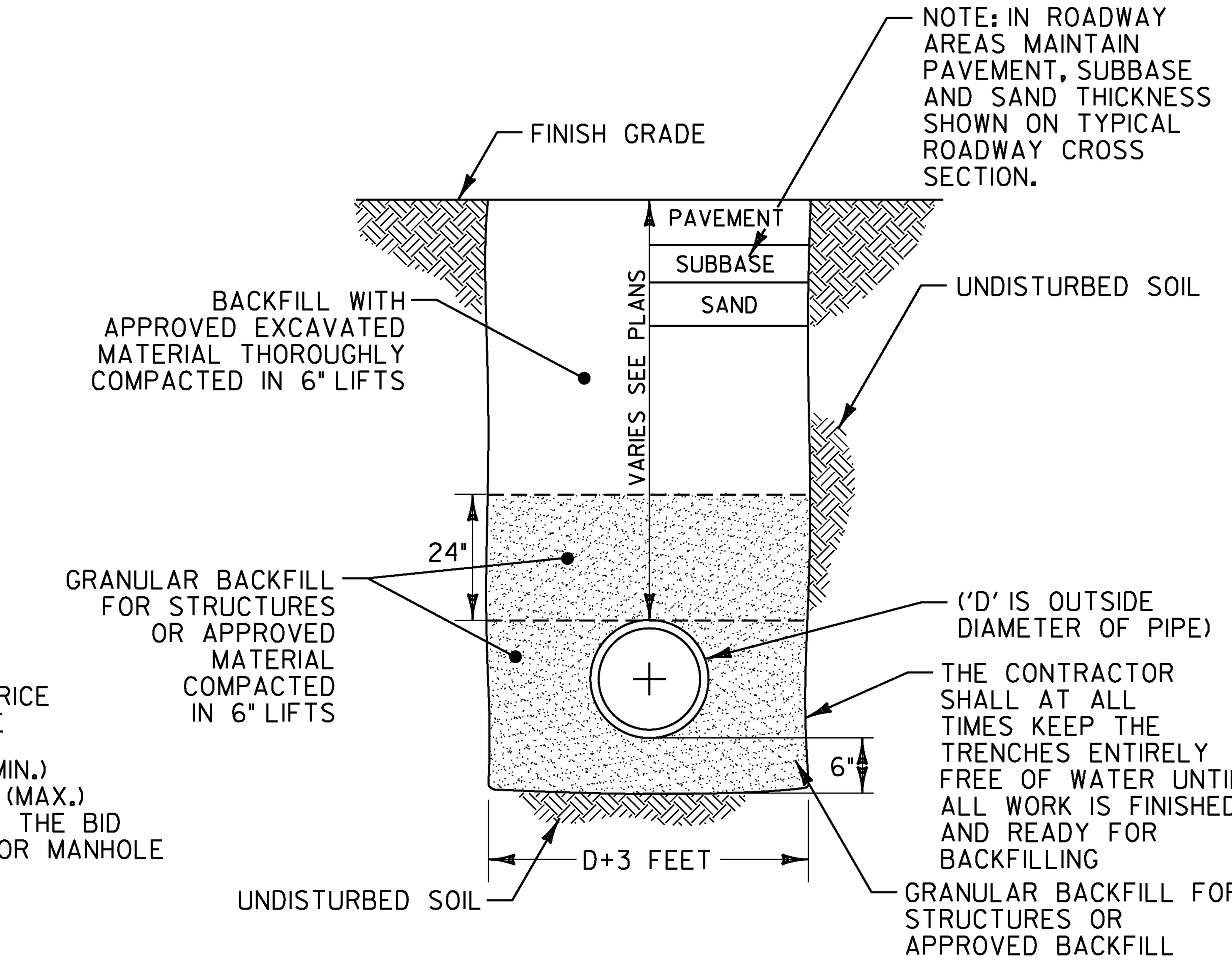
CATCH BASIN (PLAN) WITH UNDERDRAIN
NOT TO SCALE



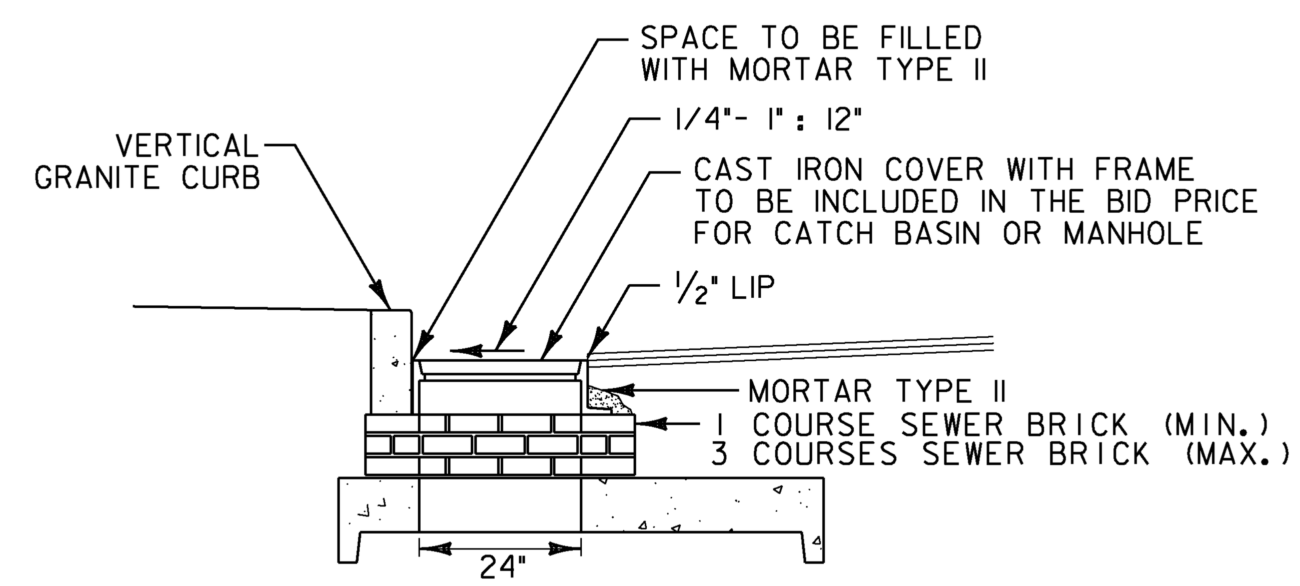
DOUBLE GRATE CATCH BASIN (PLAN)
NOT TO SCALE



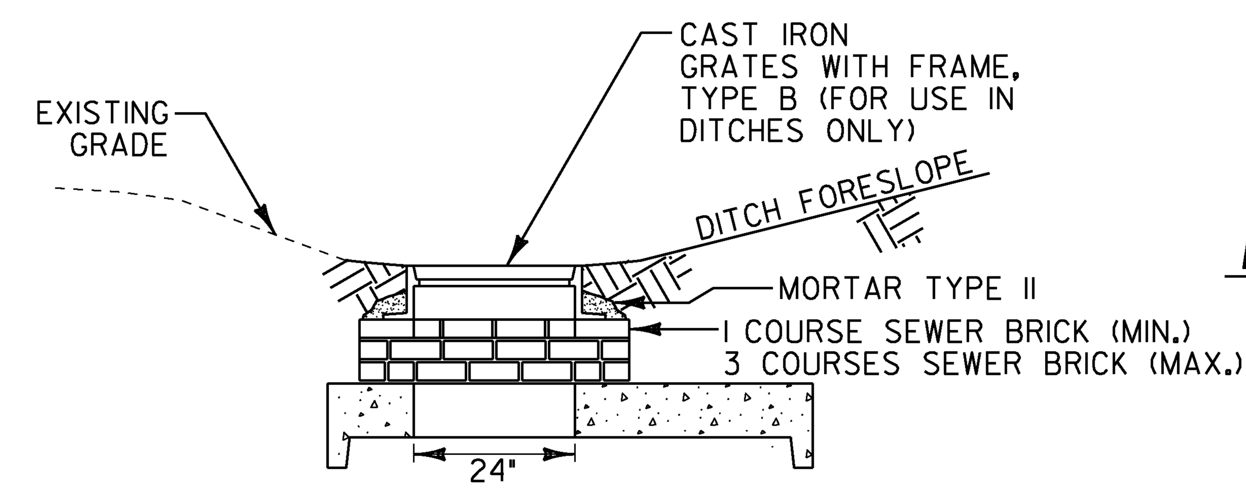
MANHOLE (PLAN)
NOT TO SCALE



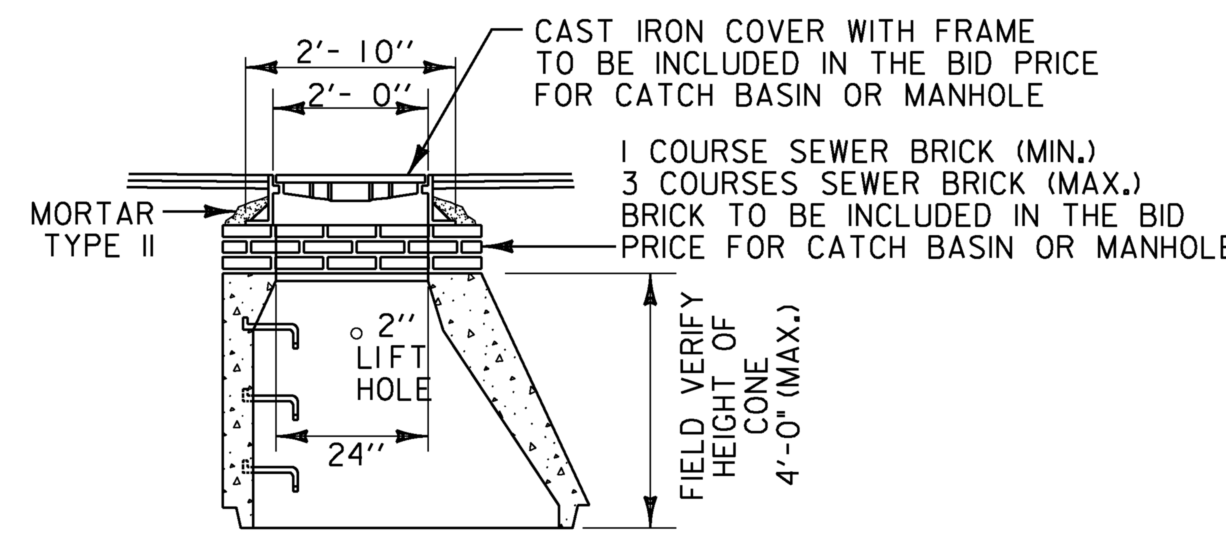
TYPICAL STORM DRAIN AND PIPE SLEEVE TRENCH
NOT TO SCALE



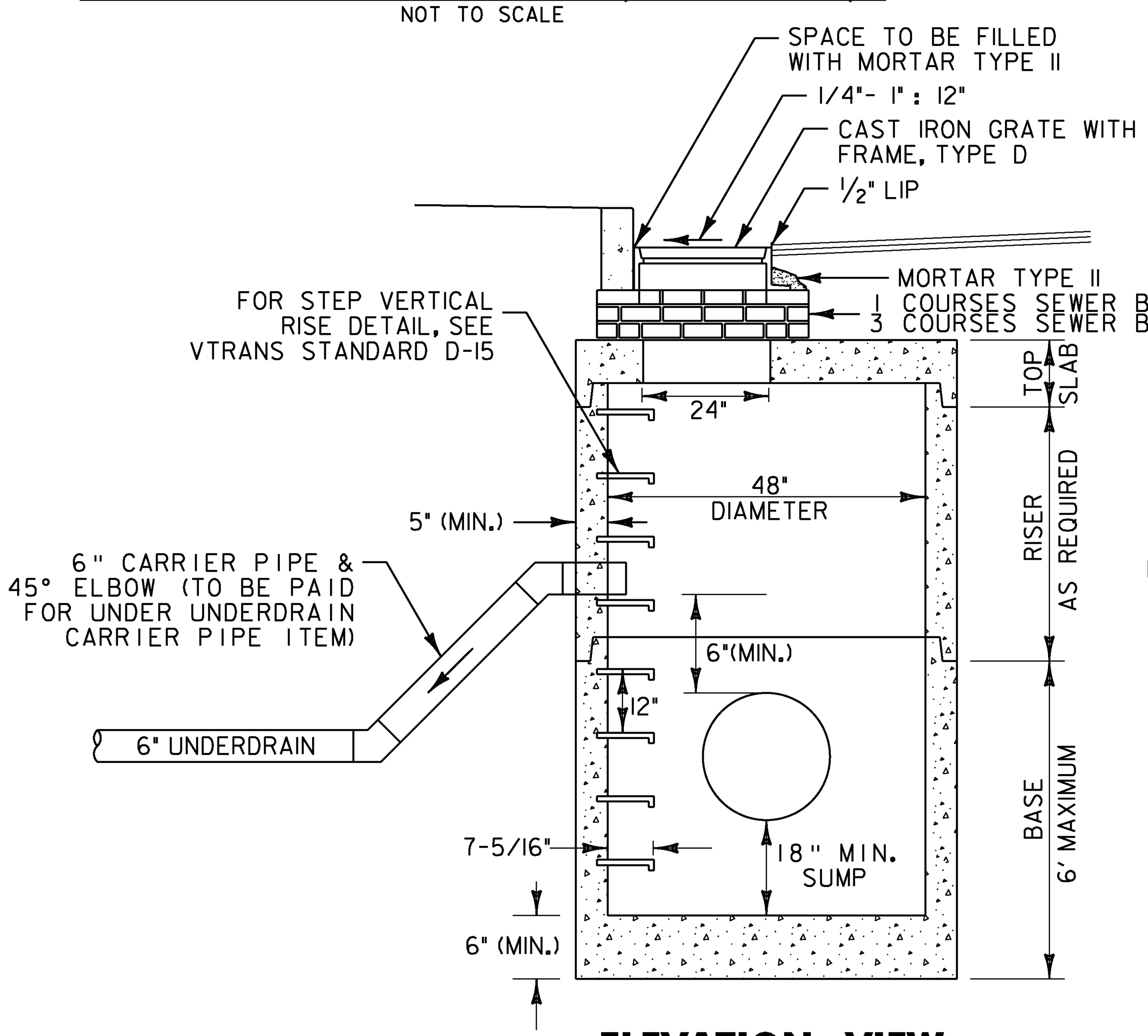
TYPICAL GRATE INSTALLATION WITH VERTICAL GRANITE CURB (ELEVATION)
NOT TO SCALE



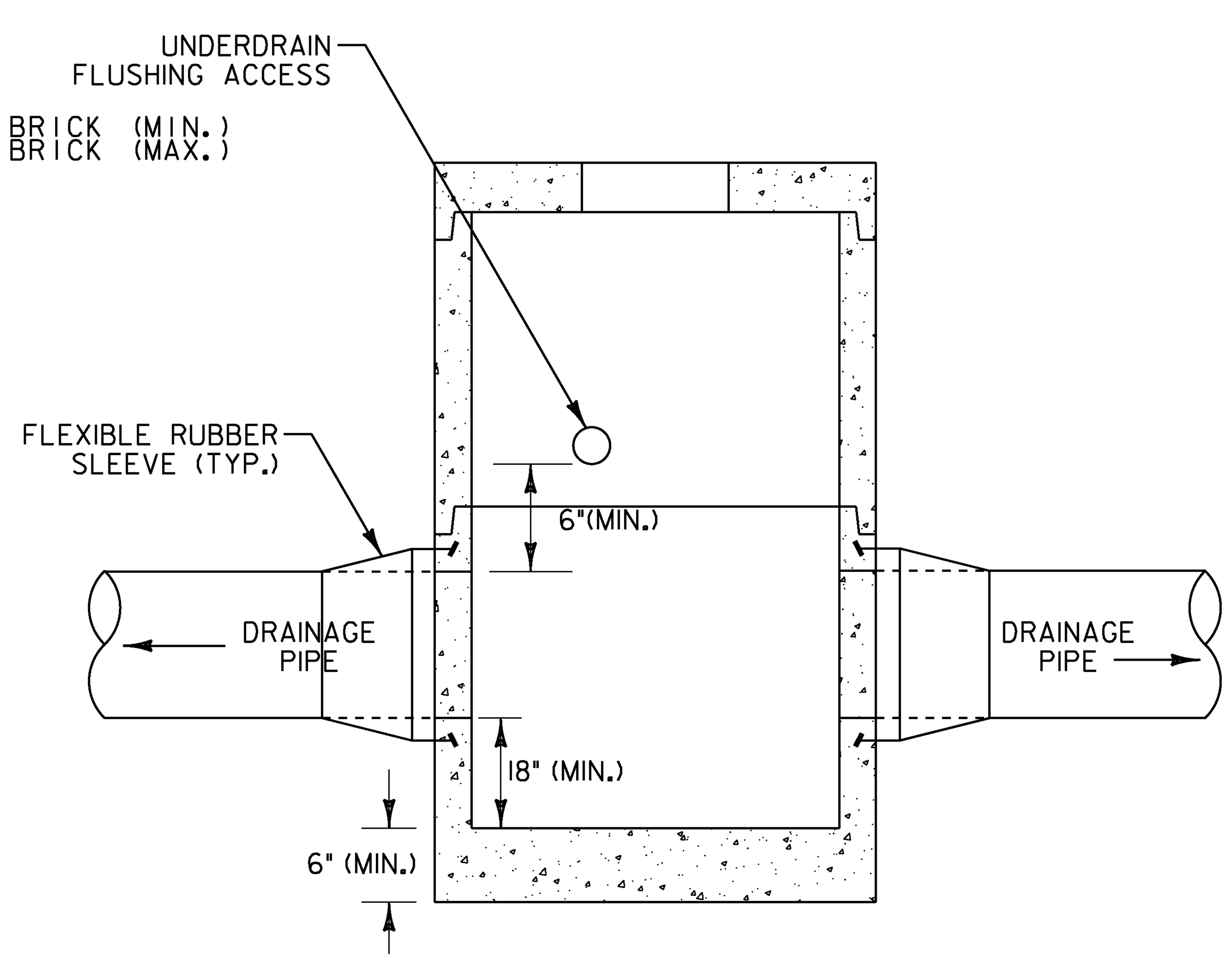
TYPICAL GRATE INSTALLATION IN DITCH (ELEVATION)
NOT TO SCALE



MANHOLE CONE SECTION
NOT TO SCALE



ELEVATION VIEW



SIDE VIEW

TYPICAL PRECAST CATCH BASIN OR MANHOLE WITH URBAN UNDERDRAIN FLUSHING BASIN
NOT TO SCALE

PRECAST REINFORCED CONCRETE CATCH BASIN NOTES:

1. PRECAST CONCRETE SECTIONS SHALL CONFORM TO SUBSECTION 705.04 OF THE STANDARD SPECIFICATIONS.
2. MINIMUM CONCRETE COMPRESSIVE STRENGTH: 5,000 PSI AT 28-DAYS
3. STEEL REINFORCING SHALL CONFORM TO ASTM A185 OR A82 FOR HS-25 LOADING.
4. MANHOLE STEPS SHALL BE 14" WIDE STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC AND SHALL BE CAST INTO MANHOLE SECTIONS BY THE PRECAST CONCRETE MANUFACTURER.
5. FACE OF PIPE SHALL NOT PROJECT MORE THAN 2" NOR LESS THAN 1" FROM INSIDE WALL OF STRUCTURE.
6. ALL STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A MINIMUM OF 12" OF OUTSIDE SURFACE BETWEEN HOLES, NO MORE THAN 75% OF A HORIZONTAL CROSS-SECTION SHALL BE HOLES, AND THERE SHALL BE NO HOLES CLOSER THAN 3" TO JOINTS.
7. FITTING FRAME TO FINAL GRADE MAY BE DONE WITH BRICK OR PRECAST CONCRETE GRADE RINGS OF APPROPRIATE THICKNESS (3 COURSES MAX).
8. FLAT SLAB TOPS SHALL BE USED FOR ALL CATCH BASINS UNLESS OTHERWISE PERMITTED BY THE ENGINEER.
9. ALL PIPE INVERTS AND PENETRATION ANGLES SHALL BE FIELD VERIFIED PRIOR TO PRECASTING.
10. PRECAST SECTIONS SHALL HAVE A TONGUE AND GROOVE JOINT AND BE ASSEMBLED USING A BUTYL RUBBER OR APPROVED EQUAL SEALANT.
11. PROVIDE FLEXIBLE RUBBER SLEEVES CONFORMING TO ASTM C-923, RESILIENT, OF SIZE REQUIRED, FOR EACH PIPE CONNECTING TO STRUCTURE.
12. PAYMENT FOR FURNISHING AND INSTALLING CATCH BASINS SHALL BE MADE UNDER THE PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE ITEM (604.20).
13. DEPTH AS SHOWN ON THE DRAINAGE DETAIL SHEET AND DRAINAGE PROFILE SHEETS IS DEFINED AS THE VERTICAL DISTANCE BETWEEN RIM ELEVATION AND THE BOTTOM OF SUMP

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES / TOTALS / DESCRIPTIONS

	ROADWAY	ROADWAY (NO FEDERAL PARTICIPATION)	LANDSCAPE	EROSION CONTROL	UTILITIES - BID ITEMS	UTILITIES - BID ITEMS (NO FED. / STATE PART.)	FULL CE ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND
	1							1	1 LS	LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10	-
	8100							8100	8150.8	CY	COMMON EXCAVATION	203.15	230
	825							825	1129	CY	SOLID ROCK EXCAVATION	203.16	34
	450							450		CY	UNCLASSIFIED CHANNEL EXCAVATION	203.27	10
	85							85	91.3	CY	EXCAVATION OF SURFACES AND PAVEMENTS	203.28	4
	1450							1450	1937.1	CY	SAND BORROW	203.31	31
2535.9	~~2700~~				420	980		4100		CY	TRENCH EXCAVATION OF EARTH	204.20	113
	30							30		CY	TRENCH EXCAVATION OF ROCK	204.21	4
	1							1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-
	472				151	302		925		CY	GRANULAR BACKFILL FOR STRUCTURES	204.30	32
	375							375	505	SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	21.4
	4250							4250	4436.9	CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	157
	30							30	56.0	CY	AGGREGATE SURFACE COURSE	401.10	2.1
	25							25	35.2	CWT	EMULSIFIED ASPHALT	404.65	3.2
	1							1	4534	LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-
	2400							2400	2443.4	TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	490.30	72.5
	1							1	0	LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	-
	1							1	807	LU	MAT DENSITY PAY ADJUSTMENT (N.A.B.I.)	490.32	-
	2950							2950	2358	LB	REINFORCING STEEL	507.15	76
	3							3	4.0	GAL	WATER REPELLENT, SILANE	514.10	EST
	25							25	19.22	CY	CONCRETE, CLASS B	541.25	2.9
	95							95	0	LF	BEGIN OPTION AA 48" CAAP .105 (2-2/3 X 1/2)	601.0257	-
	95							95	95	LF	48" PCCSP .109 (2-2/3 X 1/2) END OPTION AA	601.0457	-
	58							58	0	LF	BEGIN OPTION BB 24" PCCSP .064 (2-2/3 X 1/2)	601.0425	-
	58							58	49.5	LF	24" CPEP END OPTION BB	601.0920	-
	906							906	0	LF	BEGIN OPTION CC 18" RCP CLASS III	601.0815	-
	906							906	964	LF	18" CPEP(SL) END OPTION CC	601.2615	-
	248							248	0	LF	BEGIN OPTION DD 24" RCP CLASS III	601.0825	-
	248							248	238.8	LF	24" CPEP(SL) END OPTION DD	601.2620	-
	71							71	0	LF	BEGIN OPTION EE 30" RCP CLASS III	601.0835	-
	71							71	70	LF	30" CPEP(SL) END OPTION EE	601.2625	-
	45							45	41	LF	CLEANING CULV. PIPE, IN-PLACE [0 TO 24 IN., INCL.]	601.995	4
	16							16	16	EACH	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE	604.20	-
	2300							2300	2017	LF	6 INCH UNDERDRAIN PIPE	605.10	58
	350							350	383	LF	6 INCH UNDERDRAIN CARRIER PIPE	605.20	12

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		203.15 COMMON EXCAVATION
4920	CY	US ROUTE 7
2576	CY	LAKE ROAD
9	CY	KILBURN ROAD
365	CY	DRIVES
7870	CY	SUB TOTAL
230	CY	ROUND
8100	CY	TOTAL
		203.16 SOLID ROCK EXCAVATION
741	CY	US ROUTE 7 - CONCRETE ROADBED
49	CY	KILBURN ROAD - CONCRETE ROADBED
1	CY	CONCRETE WALL - STA 110+41.01 RT
791	CY	SUB TOTAL
34	CY	ROUND
825	CY	TOTAL
		203.31 SAND BORROW
1236	CY	US ROUTE 7
183	CY	LAKE ROAD
1419	CY	SUB TOTAL
31	CY	ROUND
1450	CY	TOTAL
		204.20 TRENCH EXCAVATION OF EARTH (ROADWAY)
1460	CY	DRAINAGE PIPES
984	CY	UNDERDRAIN PIPE
108	CY	UNDERDRAIN CARRIER PIPE
35	CY	DRY SWALE
2587	CY	SUB TOTAL
113	CY	ROUND
2700	CY	TOTAL
		210.10 COLD PLANING, BITUMINOUS PAVEMENT
285.3	SY	US ROUTE 7
68.3	SY	LAKE ROAD
353.6	SY	SUB TOTAL
21.4	SY	ROUND
375.0	SY	TOTAL
		301.35 SUBBASE OF DENSE GRADED STONE
3073	CY	US ROUTE 7
674	CY	LAKE ROAD
57	CY	KILBURN ROAD
289	CY	DRIVES
4093	CY	SUB TOTAL
157	CY	ROUND
4250	CY	TOTAL
		490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
392.7	TON	US ROUTE 7, TYPE IVS WEARING COURSE
1370.5	TON	US ROUTE 7, TYPE IIS BASECOURSE
149.5	TON	LAKE ROAD, TYPE IVS WEARING COURSE
335.0	TON	LAKE ROAD, TYPE IIS BASE COURSE
23.7	TON	KILBURN ROAD, TYPE IVS WEARING COURSE
56.1	TON	DRIVES, TYPE IVS WEARING COURSE
2327.5	TON	SUB TOTAL
72.5	TON	ROUND
2400	TON	TOTAL

PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)

FILE NAME: t92D289.frm.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: D. LYMAN
QUANTITY SHEET 1

PLOT DATE: 23-FEB-2011
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES / TOTALS / DESCRIPTIONS

ROADWAY	ROADWAY (NO FEDERAL PARTICIPATION)	LANDSCAPE	EROSION CONTROL	UTILITIES - BID ITEMS	UTILITIES - BID ITEMS (NO FED. / STATE PART.)	FULL CE ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND
5							5	9	EACH	UNDERDRAIN FLUSHING BASIN	605.95	-
50							50	24.3	HR	POWER BROOM RENTAL, TYPE II	608.31	EST
500							500	0	MGAL	DUST CONTROL WITH WATER	609.10	EST
3							3	6.63	TON	DUST AND ICE CONTROL WITH CALCIUM CHLORIDE	609.15	EST
380							380		CY	STONE FILL, TYPE II	613.11	15
250							250	243	LF	GRANITE SLOPE EDGING	616.20	4
880							880	917	LF	VERTICAL GRANITE CURB	616.21	12
225							225	231	LF	REMOVAL OF EXISTING CURB	616.41	2
6							6	7	EACH	RELOCATE MAILBOX, SINGLE SUPPORT	617.10	-
1							1	2	EACH	RELOCATE MAILBOX, MULTIPLE SUPPORT	617.12	-
					2		2	2	EACH	BOLLARDS	619.14	-
10							10	18	EACH	YIELDING MARKER POSTS	619.17	-
40							40	0	LF	REMOVING AND RESETTING FENCE	620.50	3.7
20							20	80	LF	REMOVAL OF EXISTING FENCE	620.55	2
425							425	362.5	LF	HD STEEL BEAM GUARDRAIL, GALVANIZED	621.21	7
1							1	1.0	EACH	MANUFACTURED TERMINAL SECTION, FLARED	621.50	-
155							155	25	LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	4
				0.31 ~~0.16~~	0.06 ~~0.25~~		0.41	0.37	MFBM	INSULATION BOARD	622.10	EST
					105		105	48	LF	SLEEVES FOR UTILITIES (1 X 24")(STEEL)	625.10	EST
				40			40	0	LF	SLEEVES FOR UTILITIES (1 X 4")(STEEL)	625.10	EST
230							230	241	LF	SLEEVES FOR UTILITIES (1 X 8")(PVC)	625.10	4
4							4	2	EACH	ADJUST ELEVATION OF VALVE BOX	629.20	-
				160	5		165		LF	SEAMLESS COPPER WATER TUBE (3/4")	629.23	EST
				487.2 ~~508~~	585 ~~735~~		1243	1072.2	LF	DUCTILE IRON PIPE, CEMENT-LINED (12")	629.24	EST
					~~10~~ 3.5		10	3.5	LF	DUCTILE IRON PIPE, CEMENT-LINED (6")	629.24	EST
				~~3~~ 6	1		4	7	EACH	EXTENSION SERVICE BOX AND CURB STOP (3/4")	629.25	-
				1	4		5	5	EACH	GATE VALVE WITH VALVE BOX (12")	629.27	-
					1		1	1	EACH	GATE VALVE WITH VALVE BOX (6")	629.27	-
					1		1	1	EACH	HYDRANT	629.28	-
				~~3~~ 6	1		4	7	EACH	CORPORATION STOP (3/4")	629.39	-
					1		1	1	LS	TRANSFER TO NEW SYSTEM, WATER SYSTEM	629.42	-
					~~1.5~~ 2		1.5	2	TON	CRUSHED STONE BEDDING	629.54	EST
1000							1000	62.8	HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST
3000							3000	3852.8	HR	FLAGGERS	630.15	EST
						1	1	1	LS	FIELD OFFICE, ENGINEERS	631.10	-
						1	1	1	LS	TESTING EQUIPMENT, CONCRETE	631.16	-
						1	1	1	LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-
						3000	3000	1251	DL	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.26	-
1							1	1 LS	LS	MOBILIZATION/DEMOBILIZATION	635.11	-
1							1	1 LS	LS	TRAFFIC CONTROL	641.10	-

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		613.11 STONE FILL, TYPE II
11	CY	DRAINAGE PIPE 16 OUTLET
330	CY	DRAINAGE PIPE 17 OUTLET
12	CY	DRAINAGE PIPE 11 STONE PAD
12	CY	DRY SWALE STONE PAD
365	CY	SUB TOTAL
15	CY	ROUND
380	CY	TOTAL
		619.17 YIELDING MARKER POSTS
1	EACH	DRAINAGE PIPES
5	EACH	UNDERDRAIN PIPE
3	EACH	UNDERDRAIN CARRIER PIPE
1	EACH	DRY SWALE
10	EACH	TOTAL

PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)

FILE NAME: t920289.frm.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: D. LYMAN
QUANTITY SHEET 2

PLOT DATE: 23-FEB-2011
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 3

SUMMARY OF ESTIMATED QUANTITIES: ROADWAY	ROADWAY (NO FEDERAL PARTICIPATION)	LANDSCAPE	EROSION CONTROL	UTILITIES - BID ITEMS	UTILITIES - BID ITEMS (NO FED. / STATE PART.)	FULL CE ITEMS	TOTALS: GRAND TOTAL	FINAL	DESCRIPTIONS: UNIT	ITEMS	ITEM NUMBER	ROUND
3							3	3	EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-
3550							3550	3593	LF	DURABLE 4 INCH WHITE LINE, RECESSED POLYUREA	646.406	39
4150							4150	4420	LF	DURABLE 4 INCH YELLOW LINE, RECESSED POLYUREA	646.416	56
275							275	285	LF	DURABLE 8 INCH YELLOW LINE, RECESSED POLYUREA	646.456	4
40							40	32	LF	DURABLE 24 INCH STOP BAR, TYPE I TAPE	646.481	0.8
10							10	19	EACH	DURABLE LETTER OR SYMBOL, TYPE I TAPE	646.491	-
7200							7200	0	LF	TEMPORARY 4 INCH WHITE LINE	646.600	77
8300							8300	0	LF	TEMPORARY 4 INCH YELLOW LINE	646.610	112
80							80	0	LF	TEMPORARY 24 INCH STOP BAR	646.680	1.5
20							20	0	EACH	TEMPORARY LETTER OR SYMBOL	646.690	-
440							440	936 SY	SY	GEOTEXTILE UNDER STONE FILL	649.31	44.5
			135				135	167 SY	SY	GEOTEXTILE FOR SILT FENCE	649.51	5.7
			100				100	61.1	SY	GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED	649.515	2.6
		96			4		100	214	LB	SEED	651.15	5.2
		579.3			0.7		580	714	LB	FERTILIZER	651.18	11.9
		2.3			0.3		2.6	2.85	TON	AGRICULTURAL LIMESTONE	651.20	EST
		2.3			0.1		2.4	0	TON	HAY MULCH	651.25	EST
		627			8		635	760.7	CY	TOPSOIL	651.35	17
			1				1	1	LS	EPSC PLAN	652.10	-
			65				65	44	HR	MONITORING EPSC PLAN	652.20	EST
			1				1	0.13	LU	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	652.30	-
			11700				11700	6916	SY	TEMPORARY EROSION MATTING	653.20	148
			17				17	0	EACH	INLET PROTECTION DEVICE, TYPE I	653.40	-
			280				280	358	LF	BARRIER FENCE	653.50	6
			1650				1650	966	LF	PROJECT DEMARCATION FENCE	653.55	39
		28					28	28	EACH	DECIDUOUS SHRUBS (SPIREA)(#2 CONT.)(12" - 18" HT.)	656.35	-
		2					2	1	MGAL	LANDSCAPE WATERING	656.65	0.3
		15					15	13.8	CY	LANDSCAPE BACKFILL, TRUCK MEASUREMENT	656.80	1.4
		1					1	0	LS	TREE PROTECTION	656.85	-
73							73	73	SF	TRAFFIC SIGNS, TYPE A	675.20	-
166 ~~180~~	~~30~~ 56						210	222	LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341	-
19 ~~20~~	~~1~~ 2						21	21	EACH	REMOVING SIGNS	675.50	-
2 ~~1~~	1						2	3	EACH	ERECTING SALVAGED SIGNS	675.60	-
1							1	2	EACH	SETTING SALVAGED POSTS	675.61	-
1							1	422	LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	-
81							81	81	LF	SPECIAL PROVISION (6" UNDERDRAIN PIPE, DRY SWALE)	900.640	-
135							135	231.2	SY	SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)	900.675	8
240							240	270.98	SY	SPECIAL PROVISION (PRECAST CONCRETE GRAVITY RETAINING WALL WITH FENCE)	900.675	7.8

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)

FILE NAME: t92D289.frm.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: D. LYMAN
QUANTITY SHEET 3

PLOT DATE: 23-FEB-2011
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN

STATE OF VERMONT
AGENCY OF TRANSPORTATION

ITEM DETAIL SHEET

CURB

BEGIN STATION	END STATION	POSITION LEFT FT	POSITION RIGHT FT	REMARKS
616.20 - GRANITE SLOPE EDGING				
105+83.13 RT	106+55.80 RT		81	
106+66.88 RT	107+45.52 RT		165	ISLAND
SUBTOTAL			246	246
ROUND				4
TOTAL				250
616.21 - VERTICAL GRANTIE CURB				
106+75.00 LT	300+65.45 LT	102		95' RAD
300+65.45 LT	303+20.50 LT	261		
108+34.53 LT	301+00.00 RT		91	43' RAD
108+34.53 LT	108+66.68 LT	32		
301+00.00 RT	302+77.72 RT		174	
303+16.94 RT	303+65.31 RT		49	
303+53.91 LT	304+67.06 LT	114		
304+05.68 RT	304+50.00 RT		45	
SUBTOTAL		509	359	868
ROUND				12
TOTAL				880

SIDEWALK

BEGIN STATION	END STATION	POSITION LEFT SY	POSITION RIGHT SY	REMARKS

GUARD RAIL

BEGIN STATION	END STATION	POSITION LEFT FT	POSITION RIGHT FT	END TREATMENT BEGIN EA	END TREATMENT END EA
621.21 - HD STEEL BEAM GUARDRAIL, GALVANIZED					
100+50.00 RT	104+67.26 RT		418		
SUBTOTAL			418		
ROUND			7		
TOTAL			425		
621.50 - MANUFACTURED TERMINAL SECTION, FLARED					
104+67.26 RT	105+04.79 RT		1		
TOTAL			1		

UNDERDRAIN

	BEGIN STATION	END STATION	TYPE	POSITION	DIA. IN	LENGTH FT	TRENCH EARTH CY	TRENCH ROCK CY	GRAN BKFILL CY	FB EA	MKR PST EA
	605.10 - 6 INCH UNDERDRAIN PIPE										
1	304+21.22 LT	301+02.39 LT	U	LT - LT	6	~~319~~ 246	~~138~~ 0			1	1
2	304+~~22.00~~ 25 RT	301+~~02.23~~ 00 RT	U	RT - RT	6	~~318~~ 316	~~153~~ 0				
3	110+~~12.50~~ 25 LT	108+~~44.16~~ 32 LT	U	LT - LT	6	~~168~~ 175	~~59~~ 52.7			1	1
4	~~110+12.50~~ 109+70 RT	108+~~55.00~~ 33 RT	U	RT - RT	6	~~158~~ 116	~~69~~ 45			1	1
5	107+~~10.34~~ 29 LT	105+~~06.55~~ 00 LT	U	LT - LT	6	~~215~~ 214	~~73~~ 75.4				
6	~~104+94.17~~ 105+00 LT	103+~~49.59~~ 38 LT	U	LT-LT	6	~~146~~ 146	~~58~~ 63.7				
7	108+20.00 RT	103+~~25.13~~ 00 RT	U	RT - RT	6	~~500~~ 524	~~245~~ 175.3			2	2
8	~~103+38.99~~ 102+71 LT	101+20.00 LT	U	LT - LT	6	~~219~~ 140	~~100~~ 81.6			1	1
9	~~103+20.00~~ 101+20 RT	~~101+20.00~~ 102+65 RT	U	RT - RT	6	~~200~~ 140	~~89~~ 85.2			1	1
	SUBTOTAL				2017	~~2242~~					
	ROUND					58					
	TOTAL					2300	984			~~5~~ 7	~~5~~ 7
	605.20 - 6 INCH UNDERDRAIN CARRIER PIPE										
10	304+25.00 LT	304+21.22 LT	C	LT - LT	6	4	0			CB-1	
11	304+25.00 RT	304+22.00 RT	C	RT - RT	6	3	0			CB-2	
12	301+02.39 LT	301+00.00 LT	C	LT - LT	6	2	1				
13	301+02.23 RT	301+00.00 RT	C	RT - RT	6	3	0				
14	108+44.16 LT	108+40.00 LT	C	LT - LT	6	4	1				
15	108+55.00 RT	108+42.92 RT	C	RT - RT	6	27	6				1
16	107+29.41 LT	107+19.34 LT	C	LT - LT	6	10	2			CB-12	
17	105+06.55 LT	105+00.00 LT	C	LT -LT	6	7	2				
18	105+00.00 LT	104+94.17 LT	C	LT-LT	6	7	2			CB-14	
19	103+49.59 LT	103+45.00 LT	C	LT -LT	6	6	1				
20	103+25.13 RT	103+03.50 RT	C	RT - RT	6	31	6				1
21	103+45.00 LT	103+38.99 LT	C	LT - LT	6	7	1			CB-16	
22	101+20.00 LT	101+20.00 RT	C	LT - RT	6	84	51				1
23	300+70.00 LT	107+29.41 LT	C	LT - LT	6	47	18				
24	300+70.00 RT	300+50.00 RT	C	RT - RT	6	16	4				
25	103+50.00 RT	103+04.92 RT	C	RT - RT	6	45	13				
	SUBTOTAL					303					
	FLUSHING BASIN RISERS (5 FB X 7' ESTIMATED LENGTH)					35					
	ROUND					12					
	TOTAL					350	108			0	3

NOTE: IN LOCATIONS WHERE AN URBAN FLUSING BASIN IS USED, THE DRAINAGE STRUCTURE ID IS PLACED IN THE FB COLUMN AND THE UNDERDRAIN CARRIER PIPE BEGIN STATION IS DEFINED AS THE DRAINAGE STRUCTURE LOCATION, URBAN FLUSHING BASINS WILL PAID FOR AS THE LENGTH OF UNDERDRAIN CARRIER PIPE USED

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET

STATION	STATION	POS.	PIPE NUMBER	INLET/OUTLET TYPE INLET	INLET/OUTLET TYPE OUTLET	DITCH IN	DITCH OUT	PIPE ARCH SPAN IN	PIPE ARCH RISE IN	PIPE ARCH L FT	PIPE D IN	PIPE L FT	ALLOWABLE OPTIONS PCCSP TH	CAAP TH	RCP CL	CSP TH	CPEP SL	CPEP	PIPE ELBOW NO. DEG.	ES EA	CB EA		DEPTH CB FT
EXISTING DRAINAGE																							
101+69.18	101+28.64	LT - LT	1	DI	OL																		
102+68.46	102+93.77	LT - RT	2	HW	OL																		
108+17.21	108+15.59	LT - RT	3	HW	HW																		
111+40.70	111+08.21	LT - LT	4																				
301+00.76	300+59.56	LT - RT	5	DI	OL																		
PROPOSED DRAINAGE																							
304+~~25.00~~ 95.00	303+~~17.00~~ 55.00	LT - LT	1	CB-1	CB-3						18	~~108~~ 140			III		X				1		6.33
304+25.00	303+17.00	RT - RT	2	CB-2	CB-4						18	108			III		X				1		6.33
303+~~17.00~~ 55.00	302+00.00	LT - LT	3	CB-3	CB-5						18	~~117~~ 154			III		X				1		6.67
303+17.00	302+00.00	RT - RT	4	CB-4	CB-6						18	~~117~~ 116			III		X				1		6.68
302+00.00	301+00.00	LT - LT	5	CB-5	CB-7						18	~~102~~ 100			III		X				1		6.67
302+00.00	301+00.00	RT - RT	6	CB-6	CB-8						18	~~98~~ 96			III		X				1		6.67
301+00.00	301+00.00	LT - RT	7	CB-7	CB-8						18	~~26~~ 22			III		X				1		6.67
301+00.00	300+70.00	RT - RT	8	CB-8	CB-9						24	~~28~~ 25.5			III		X				1		7.26
300+70.00	300+50.00	RT - RT	9	CB-9	CB-10						24	~~21~~ 20.33			III		X				1		6.21
300+50.00	108+~~40.00~~ 32.00	RT - LT	10	CB-10	CB-11						24	~~44~~ 33.5			III		X				1		6.31
108+~~40.00~~ 32.00	108+40.00	LT - RT	11	CB-11	OL						30	~~71~~ 70			III		X				1		7.56
107+29.41	106+10.00	LT - LT	12	CB-12	CB-13						18	~~120~~ 130			III		X				1		6.17
106+~~40.00~~ 0.00	105+00.00	LT - LT	13	CB-13	CB-14						18	~~110~~ 98			III		X				1		7.00
105+00.00	104+50.00	LT - LT	14	CB-14	CB-15						24	~~60~~ 48.5			III		X				1		6.70
104+50.00	103+45.00	LT - LT	15	CB-15	CB-16						24	~~105~~ 111			III		X				1		7.42
103+~~46.00~~ 38.00	~~102+97.60~~ 103+00	LT - LT	16	CB-16	~~HW-1~~ ES						24	~~59~~ 49.5	0.064					X		I	1		7.37
102+86.76	102+86.76	LT - RT	17	HW-2	HW-3						48	95	0.109	0.105									
TOTALS											18"	964 ~~906'~~	CPEP (SL) / RCP CLASS III							4'	CB	=15	
										238.83	24"	248'	CPEP (SL) / RCP CLASS III							5'	CB	=1	
											24"	49.5 ~~59'~~	PCCSP / CPEP										
											30"	70 ~~71'~~	CPEP (SL) / RCP CLASS III										
											48"	95'	PCCSP / CAAP										

STATION	CONC CLASS B CY	REINF STEEL LBS	CB GRATE TYPE	CHAN ELEV EA	CRM CY	TRENCH EXCAVATION EARTH CY	TRENCH EXCAVATION ROCK CY	COMM EXC CY	UNC CHAN EXC CY	STRUCT EXCAV CY	GRAN BKFILL STRUCT CY	GRAN BORR CY	EROS MATT SY	STONE FILL CY	STONE FILL TYPE	MARKER POSTS LT EA	MARKER POSTS RT EA	REMARKS
EXISTING DRAINAGE																		
101+69.18																		RETAIN 18" CPEP AND CONCRETE DI
102+68.46							~~15~~ 12.44											REMOVE 24" X 84' CGMP & HEADWALL
108+17.21						~~8~~ 1.0	~~4~~ 4.46											REMOVE 18" X 33' CGMP & HEADWALLS (2)
111+40.70																		RETAIN 15" CGMP
301+00.76							~~4~~ 0.56											REMOVE 15" X 51' CPEP AND CONCRETE DI
PROPOSED DRAINAGE																		
304+~~25.00~~ 95.00			~~D~~ E			~~64~~ 98.9					~~29~~ 50.3							4' DIAMETER PRC CATCH BASIN @ 304+25.00 LT
304+25.00			~~D~~ E			~~64~~ 107.4					~~29~~ 34.5							4' DIAMETER PRC CATCH BASIN @ 304+25.00 RT
303+~~17.00~~ 55.00			~~D~~ E			~~74~~ 153.2					~~31~~ 48.0							4' DIAMETER PRC CATCH BASIN @ 303+17.00 LT
303+17.00			~~D~~ E			~~73~~ 108.9					~~31~~ 36.3							4' DIAMETER PRC CATCH BASIN @ 303+17.00 RT
302+00.00			~~D~~ E			~~65~~ 81.3					~~27~~ 32.9							4' DIAMETER PRC CATCH BASIN @ 302+00.00 LT
302+00.00			~~D~~ E			~~64~~ 86.8					~~26~~ 41.4							4' DIAMETER PRC CATCH BASIN @ 302+00.00 RT
301+00.00			~~D~~ E			~~20~~ 24.2					~~7~~ 17.5							4' DIAMETER PRC CATCH BASIN @ 301+00.00 LT
301+00.00			~~D~~ E			~~32~~ 22.6					~~9~~ 16.9							4' DIAMETER PRC CATCH BASIN @ 301+00.00 RT
300+70.00			~~D~~ E			~~24~~ 15.7					~~7~~ 13.4							4' DIAMETER PRC CATCH BASIN @ 300+70.00 RT
300+50.00			D			~~54~~ 47.9					~~15~~ 17.6							4' DIAMETER PRC CATCH BASIN @ 300+50.00 RT
108+~~40.00~~ 32.00			D			~~100~~ 89.0					~~30~~ 31.9			~~12~~ 11.85	II			5' DIAMETER PRC CATCH BASIN @ 108+~~40.00~~ 32.00 LT
107+29.41			D			~~111~~ 161.5					~~31~~ 59.2							4' DIAMETER PRC CATCH BASIN @ 107+29.41 LT
106+~~40.00~~ 0.00			A			~~129~~ 120.3					~~28~~ 51.2							4' DIAMETER PRC CATCH BASIN @ 106+~~40.00~~ 0.00 LT
105+00.00			A			~~56~~ 73.8					~~17~~ 28.6							4' DIAMETER PRC CATCH BASIN @ 105+00.00 LT
104+50.00			A			~~108~~ 158.2					~~36~~ 60.7							4' DIAMETER PRC CATCH BASIN @ 104+50.00 LT
103+~~46.00~~ 38.00	~~2.85~~ 0	~~516~~ 0	A			~~69~~ 56.8					~~20~~ 36.3			~~11~~ 7.11	II	1		4' DIAMETER PRC CATCH BASIN @ 103+~~46.00~~ 38.00 LT ~~CONSTRUCT CONCRETE STRAIGHT HEADWALL @ OUTLET~~ REPLACED W/ 24" CPEPES
102+86.76	19.22	2358				~~250~~ 450.6	3				~~67~~ 193.7			330	II			CONSTRUCT CONCRETE STRAIGHT HEADWALLS @ INLET & OUTLET REMOVE EXISTING CONCRETE HEADWALL AND PLUG EXISTING 24" RCP @ APPROX. STA 102+83.00 OFFSET 66.9' RT (PIPE BENEATH KILBURN ROAD)
TOTALS	~~22.07~~ 19.22	~~2874~~ 2358	D = 12			~~1469~~ 1858.1	~~26~~ 17.46				~~449~~ 770.4			353	II	1		
			A = 4															

PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)

FILE NAME: t92D289.frm.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: D. LYMAN
DRAINAGE SHEET

PLOT DATE: 23-FEB-2011
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN

STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

US ROUTE 7

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.	AREA S.F.	VOLUME C.Y.
100+00		0		0		0			
	50		5		0		0		
100+50		6		0		5			
	50		90		19		16		
101+00		92		20		13			
	50		196		37		18		
101+50		120		20		7			
	50		230		37		16		
102+00		128		20		11			
	50		249		37		18		
102+50		140		20		9			
	50		247		37		181	CUT	2739
103+00		126		20		187		ROCK	389
	50		263		37		186	R.FAC	.495
103+50		158		20		13		FILL	579
	50	.	310		37		19	F.FAC	1.15
104+00		177		20		8		EX. C	2265
	50		311		37		28		
104+50		159		20		23			
	50		292		37		47		
105+00		156		20		28			
	50		283		37		32		
105+50		149		20		7			
	50		263		37		16		
106+00		135		20		11			
	50		258		37		10		
106+50		144		20		0			
	50		347		37		0		
107+00		231		20		0			
	50		540		37		0		
107+50		352		20		0			
	50		532		37		0		
108+00		222		20		0			
	50		333		37		10		
108+50		138		20		11		CUT	2972
	50		251		37		21	ROCK	352
109+00		133		20		12		R.FAC	.495
	50		241		37		16	FILL	86
109+50		127		20		5		F.FAC	1.15
	50		229		37		8	EX. C	3047
110+00		120		20		3			
	50		173		37		11		
110+50		67		20		9			
	50		64		19		9		
111+00		3		0		1			
	50		2		0		1		
111+50		0		0		0			

NOTE: ROCK EXCAVATION ON US ROUTE 7 IS ESTIMATED TO BE THE AVERAGE END AREA REMOVAL OF THE EXISTING CONCRETE ROADBED AND PAVEMENT. CONCRETE ROADBED AND PAVEMENT ESTIMATED TO BE 1' THICK (7" SLAB AND 5" OF PAVEMENT) AND 20' WIDE.

LAKE ROAD

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.	AREA S.F.	VOLUME C.Y.
300+50		312		0		31			
	50		525		0		0		
301+00		254		0		3			
	50		459		0		9		
301+50		242		0		7			
	50		434		0		14		
302+00		227		0		8			
	50		372		0		9		
302+50		175		0		2		CUT	2576
	50		273		0		0	ROCK	0
303+00		119		0		0		R.FAC	.495
	50		199		0		0	FILL	57
303+50		95		0		0		F.FAC	1.15
	50		166		0		6	EX. C	2510
304+00		84		0		6			
	50		114		0		12		
304+50		39		0		7			
	50		36		0		7		
305+00		0		0		0			

KILBURN ROAD

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.	AREA S.F.	VOLUME C.Y.
200+50		0		18		35			
	50		6		32		33	CUT	9
201+00		7		18		1		ROCK	49
	26		3		17		0	R.FAC	.495
201+26		0		18		0		FILL	33
								F.FAC	1.15
								EX. F	4

NOTE: ROCK EXCAVATION ON KILBURN ROAD WAS ESTIMATED FROM THE LAYOUT SHEETS AND NOT BY END AREA METHOD. KILBURN ROAD ROCK EXCAVATION END AREAS SHOWN ARE ASSUMED BASED ON TOTAL VOLUME CALCULATED.

SUMMARY AND BALANCES

STATION TO STATION		TOT EXC EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES CUT	EXCESSES FILL	ACUMULATIVE EXCESSES CUT	ACUMULATIVE EXCESSES FILL
US ROUTE 7								
100+00	105+50	2739	389	579	2265	0	2265	0
106+00	111+50	2972	352	86	3047	0	5312	0
LAKE ROAD								
300+50	305+00	2576	0	57	2510	0	7822	0
KILBURN ROAD								
200+50	201+26	9	49	33	0	4	7818	0
TOTALS		8296	790	755				

REMARKS

EARTH AND ROCK EXCAVATION	8296	CY
SOLID ROCK EXCAVATION	790	CY
EARTH EXCAVATION	7506	CY
PLANIMETERED FILL	755	CY
LESS FACTORED SOLID ROCK (FACTOR = 0.495)	391	CY
NET PLANIMETERED FILL	1146	CY
FACTOR	1.15	
PLANIMETERED FILL INCLUDING FACTOR	1318	CY
MATERIALS AVAILABLE FOR FILLS		
EARTH EXCAVATION	7506	CY
UNCLASSIFIED CHANNEL EXCAVATION	450	CY
TRENCH EXCAVATION (EARTH AND ROCK) X 60%	2478	CY
DRIVE EXCAVATION	365	CY
EXCAVATION OF SURFACES AND PAVEMENTS	85	CY
TOTAL MATERIAL AVAILABLE FOR FILL	10884	CY
TOTAL FILL INCLUDING FACTOR	1318	CY
TOTAL MATERIAL FOR FILL	10884	CY
BORROW	0	CY
EXCESS EXCAVATION	9566	CY

PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)

FILE NAME: t92D289.frm.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: D. LYMAN
EARTHWORKS SHEET

PLOT DATE: 23-FEB-2011
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 12 OF 104

STATE OF VERMONT
AGENCY OF TRANSPORTATION

RIGHT - OF - WAY DETAIL SHEET

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE AREA±	REMAINDER AREA±	RIGHT TYPE	RIGHT (T)/(P)	RIGHT AREA ±	RECORDING DATA TITLE	RECORDING DATA DATE	RECORDING DATA TOWN / CITY	RECORDING DATA BOOK	RECORDING DATA PAGE	REMARKS
1	NOT USED														
2	MASON, PETER M. & TONYA M.	25,26	102+46 LT	104+07 LT			CONST.	(T)	1,544 SF			MILTON			INCLUDES PDF / BF
			102+51 LT	103+46 LT			SLOPE	(T)	1,575 SF						
			102+75 LT	103+31 LT			INSTALL & MAINTAIN	(P)	463 SF						CULVERTS, HEADWALLS & STONE DITCH
			102+74 LT	103+13 LT			REMOVE	(T)							HEADWALL
			102+98LT				DRAINAGE	(P)							
			103+38 LT	104+50 LT			UTILITY	(P)	237 SF						MUNICIPAL WATER SYSTEM
			104+31.22 LT				DRIVE	(T)							15.9' GRAVEL MM 5887
			104+48 LT	104+50 LT			INSTALL	(T)	10 SF						PDF
3A	RITCHIE, LAURIE J. & JOHN L.	26	104+49 LT	106+80 LT			UTILITY	(P)	921 SF			MILTON			MUNICIPAL WATER SYSTEM
			104+49 LT	104+62 LT			INSTALL	(T)	92 SF						PDF
			104+83.50 LT				DRIVE	(T)							16.7' GRAVEL MM 5897
			105+01 LT	105+65 LT			INSTALL	(T)	536 SF						PDF
			105+87.17 LT				DRIVE	(T)							23.7' GRAVEL MM 5916
			106+30 LT	106+60 LT			REMOVE & RESET	(T)							FENCE
			106+51 LT				D & C	(T)							WATER SERVICE
			106+52 LT	106+65 LT			SLOPE	(T)	9 SF						
			107+00 LT	107+09 LT			INSTALL	(T)	4 SF						PDF
			TH 3 300+86 LT	TH 3 301+50 LT			CONST.	(T)	48 SF						INCLUDES PDF
			TH 3 301+10 LT	TH 3 301+77 LT			INSTALL & MAINTAIN	(P)	44 SF						RETAINING WALL
			TH 3 300+98 LT	TH 3 301+77 LT			SLOPE	(T)	118 SF						INCLUDES PDF
			TH 3 301+40 LT	TH 3 301+77 LT			REMOVE	(T)							FENCE
			TH 3 301+76.70 LT				REMOVE & REPLACE	(T)							IRON PIPE
3B		26	106+45.05 LT	107+32.18 LT	2,533 SF		ALL R.T. & I.								U.S. RTE. 7 & TH 3 HWY. EASE.
4	GARROW, PAUL G. & TINA M.	26,28	TH 3 301+76.70 LT				REMOVE & REPLACE	(T)		WD	10/12/10	MILTON	396	239	IRON PIPE
			TH 3 301+77 LT	TH 3 303+08 LT			SLOPE	(T)	250 SF						INCLUDES PDF
			TH 3 301+77 LT	TH 3 302+60 LT			INSTALL & MAINTAIN	(P)	160 SF						RETAINING WALL
			TH 3 301+77 LT	TH 3 302+52 LT			REMOVE	(T)							HEDGE
			TH 3 302+54 LT				REMOVE	(T)							LILAC
			TH 3 303+00 LT	TH 3 303+21 LT			INSTALL	(T)	9 SF						PDF
			TH 3 303+15 LT	TH 3 303+18 LT			D & C	(T)							WATER SERVICE
			TH 3 303+37.16 LT				DRIVE	(T)							16.0' GRAVEL
			TH 3 303+60 LT	TH 3 303+90 LT			INSTALL	(T)	110 SF						PDF
			TH 3 303+80 LT	TH 3 303+90 LT			SLOPE	(T)	14 SF						
			TH 3 303+89.57 LT	TH 3 303+89.90 LT			REMOVE & REPLACE	(T)							IRON PIPE
5	NADEAU, CHRISTOPHER A. & ALLYSON B.	28	TH 3 303+89 LT	TH 3 304+68 LT			INSTALL	(T)	378 SF	GTR	08/30/10	MILTON	394	233	PDF & TPZ
			TH 3 303+89 LT	TH 3 304+61 LT			SLOPE	(T)	278 SF						INCLUDES TPZ
			TH 3 303+89.57 LT	TH 3 303+89.90 LT			REMOVE & REPLACE	(T)							IRON PIPE
6	JOHNSON, EBENEZER W. JR. & CAROL J.	28	TH 3 303+85.78 RT				DRIVE	(T)		GTR	08/30/10	MILTON	394	231	22.7' GRAVEL

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE
1	23, 25	PARCEL NO. 11 HEIRS OF MURETTA KILBURN. REVISED	02/16/10
		END STATION OF TAKE AREA. PER C.O. 9601	
		MADE BY: MT APPROVED BY: HP	
2	24	PARCEL NO. 13 CENTRAL VERMONT PUBLIC SERVICE	02/16/10
		CORPORATION. REVISED AREA OF DITCH & DRAINAGE	
		EASEMENT ON DETAIL SHEET. PER C.O. 9602	
		MADE BY: MT APPROVED BY: HP	
3	25	PACEL NO. 11 HEIRS OF MURETTA KILBURN. REVISED	02/26/10
		FOOTAGE BETWEEN STATION 99+29.46 AND 102+93.02.	
		MADE BY: MT PER C.O. 9605	
		APPROVED BY: HP	

PLAN LEGEND

EXISTING RIGHT-OF-WAY
TAKING WITH ACCESS
TAKING WITHOUT ACCESS
CZ CLEAR ZONE
P L PROPERTY LINE
TOE OF SLOPE
TOP OF CUT
SR (P) SLOPE RIGHT
CONST.(T) CONSTRUCTION RIGHT
PDF PDF PROJECT DEMARCATION FENCE

BF -BARRIER FENCE
D & C -DISCONNECT & CONNECT
EC -EROSION CONTROL
(P) -PERMANENT
(T) -TEMPORARY
DR. -DRAINAGE RIGHT
DIT. -DITCHING RIGHT
CH. -CHANNEL RIGHT
DRIVE -DRIVE RIGHT
CUL. -CULVERT RIGHT
C&T -CLEARING & TRIMMING RIGHT
SR -SLOPE RIGHT
UE -UTILITY EASEMENT

APPROVED: HARRY PETROVS DATE: 01/29/10
CHIEF, PLANS & TITLES

PLOT DATE 10/25/10

PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)

FILE NAME: r 92d289 detail sheet.xls
PROJECT LEADER: J. SHULTZ
DESIGNED BY: D. LYMAN
R.O.W. DETAIL SHEET #1
PLOT DATE:
DRAWN BY: M.R.
CHECKED BY: E.P.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

RIGHT - OF - WAY DETAIL SHEET

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA±	AREA±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
7A	HAMILTON, RICHARD A. & JANE E.	26-28	107+75.75 LT	108+50.00 LT	2,027 SF							MILTON			
			TH 3 302+04 RT	TH 3 302+10 RT			D & C	(T)							WATER SERVICE
			TH 3 302+97.06 RT				DRIVE	(T)							22.4' GRAVEL
			108+38 LT	108+39 LT											EXCEPT & RESERVE FENCE
7B		26-27	106+82.41 LT	110+60.95 LT	0.23A		ALL R. T. & I.								U.S. RTE. 7 & TH 3 HWY. EASE.
															10,185 SF±
8A	JOHNSON, ERIK L. & BRODEUR-JOHNSON,	26-27	108+52.08 RT	110+92.08 RT	1,115 SF					WD	09/30/10	MILTON	395	709	
	CATHERINE M.		108+52.08 RT	108+55.17 RT			REMOVE & REPLACE	(T)							IRON PIPE
			108+57 RT	109+04 RT			INSTALL	(T)	31 SF						EROSION CONTROL
			110+17 RT	110+72 RT			INSTALL	(T)	126 SF						EROSION CONTROL
			110+33 RT	110+63 RT			SLOPE	(T)	58 SF						
			110+38 RT	110+44 RT			ALL R.T. & I.								CONCRETE WALL
8B		26-27	108+52.08 RT	110+92.10 LT	0.14A		ALL R. T. & I.								U.S. RTE. 7 HWY. EASE.; 5,930 SF±
9A	DAMSCO, LLC - LESSOR;	26	106+34.40 RT	108+55.17 RT	2,262 SF							MILTON			
	R + F DAMON REALTY, INC. - LESSEE		106+14 RT	106+56 RT			CONST.	(T)	302 SF						INCLUDES EROSION CONTROL & PDF
	D/B/A THE DAM STORE		106+30 RT	106+53 RT			SLOPE	(T)	62 SF						
			106+51 RT	106+56 RT			INSTALL	(T)							GRANITE SLOPE EDGING; INCLUDES
															REMOVAL OF EXISTING CURB
			106+52 RT	108+06 RT			RECONSTRUCT	(T)	1505 SF						PAVED PARKING AREA
			106+63.93 RT				DRIVE	(T)							18.0' PAVED MM 5931
			107+73.89 RT				DRIVE	(T)							57.5' PAVED MM 5952
			108+28 RT	108+53 RT			CUL., DIT. & DR.	(P)	1,444 SF						INCLUDES UNDERDRAIN
			108+52.08 RT	108+55.17 RT			REMOVE & REPLACE	(T)							IRON PIPE
9B		26	106+05.15 RT	108+52.11 LT	0.14A		ALL R. T. & I.								U.S. RTE. 7 & TH 80 HWY. EASE.
															6,029 SF±
10A	DOUCETTE, WILLIAM P. & SOBIESKI, JANET	26	TH 80 200+49.49 LT				DRIVE	(T)		WD	09/23/10	MILTON	395	357	11.3' PAVED
			TH 80 200+60 LT	TH 80 200+69 LT			INSTALL	(T)	3 SF						EROSION CONTROL & PDF
10B		26	105+52.30 RT	106+06.50 RT	298 SF		ALL R.T. & I.								U.S. RTE. 7 & TH 80 HWY. EASE.
11	HEIRS OF MURETTA KILBURN	25	99+29.46 RT	102+93.02 RT	0.16 A							MILTON			6,930 SF±

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE

PLAN LEGEND

EXISTING RIGHT-OF-WAY
TAKING WITH ACCESS
TAKING WITHOUT ACCESS
CZ CLEAR ZONE
P L PROPERTY LINE

TOE OF SLOPE
TOP OF CUT
SR (P) SLOPE RIGHT
CONST. (T) CONSTRUCTION RIGHT
PDF PDF PROJECT DEMARCATION FENCE

BF - BARRIER FENCE
D & C -DISCONNECT & CONNECT
EC -EROSION CONTROL
(P) -PERMANENT
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DR. -DRAINAGE RIGHT
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CH. -CHANNEL RIGHT
DRIVE -DRIVE RIGHT
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APPROVED: HARRY PETROVS DATE: 01/29/10
CHIEF, PLANS & TITLES

PLOT DATE 10/25/10

PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)
FILE NAME: r 92d289 detail sheet.xls
PROJECT LEADER: J. SHULTZ
DESIGNED BY: D. LYMAN
R.O.W. DETAIL SHEET #2
PLOT DATE:
DRAWN BY: M.R.
CHECKED BY: E.P.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

RIGHT - OF - WAY DETAIL SHEET

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE AREA±	REMAINDER AREA±	RIGHT TYPE	RIGHT (T)/(P)	RIGHT AREA ±	RECORDING DATA TITLE	RECORDING DATA DATE	RECORDING DATA TOWN / CITY	RECORDING DATA BOOK	RECORDING DATA PAGE	REMARKS
12A	TOWN OF MILTON	26	105+52.30 RT	106+82.41 RT	2,737 SF		ALL R. T. & I.			QCD	08/11/10	MILTON	393	321	TH 80 & U.S. RTE. 7 HWY. EASE.
12B		26,28	106+45.05 LT	107+85.45 LT	0.14A		ALL R. T. & I.								TH 3 & U.S. RTE. 7 HWY. EASE. 5,899 SF±
			TH 3 300+46 CL	TH 305+00 CL			APPROACH	(T)							TH 3
13A	CENTRAL VERMONT PUBLIC SERVICE CORPORATION	25-28	101+12 RT	101+34 RT			DITCH & DRAINAGE	(P)	150 SF						
13B			99+29.46 RT	110+92.10 LT			ALL R.T. & I.								UTILITY EASEMENTS
14	TELEPHONE OPERATING COMPANY OF VERMONT LLC	25-28	99+29.46 RT	110+92.10 LT			ALL R.T. & I.								UTILITY EASEMENTS
15	COMCAST OF CONNECTICUT, ETC., LLC	25-28	99+29.46 RT	110+92.10 LT			ALL R.T. & I.								UTILITY EASEMENTS
	MAINTENANCE AGREE. ZONE #1	26	TH 80 200+19 CL	TH 80 200+36 CL											TH 80 LENGTH=17'
	MAINTENANCE AGREE. ZONE #2	26	TH 3 300+14 CL	TH 3 300+46 CL											TH 3 LENGTH=32'
	RELINQUISHMENT #1	25-26	101+38.24 RT	106+34.40 RT											TH 80
	RELINQUISHMENT #2	26	TH 3 300+39.54 RT	TH 3 301+00.00 RT											TH 3

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE

PLAN LEGEND

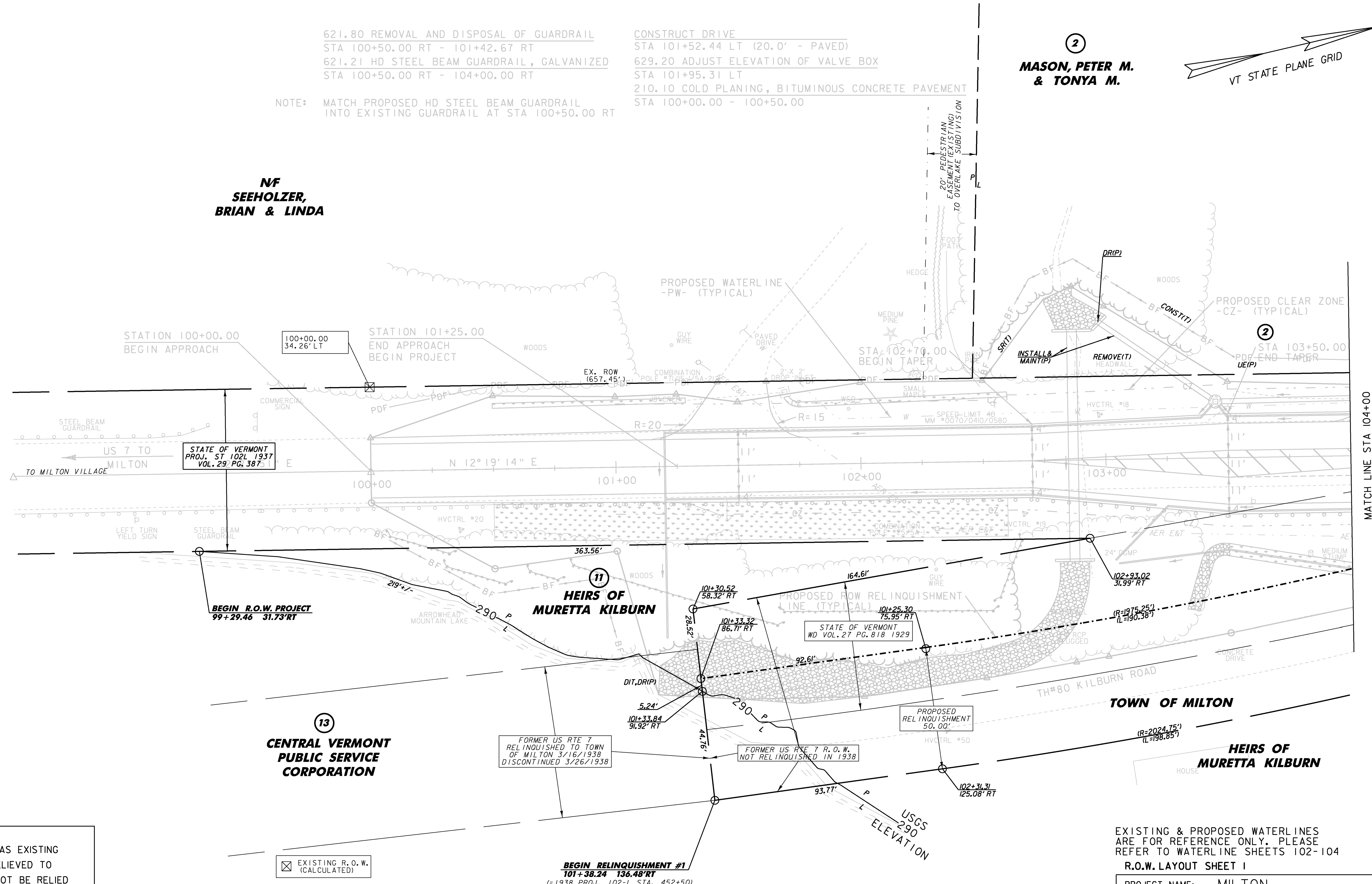
EXISTING RIGHT-OF-WAY
TAKING WITH ACCESS
TAKING WITHOUT ACCESS
CZ CLEAR ZONE
P L PROPERTY LINE
TOE OF SLOPE
TOP OF CUT
SR (P) SLOPE RIGHT
CONST.(T) CONSTRUCTION RIGHT
PDF PDF PROJECT DEMARCATION FENCE

BF -BARRIER FENCE
D & C -DISCONNECT & CONNECT
EC -EROSION CONTROL
(P) -PERMANENT
(T) -TEMPORARY
DR. -DRAINAGE RIGHT
DIT. -DITCHING RIGHT
CH. -CHANNEL RIGHT
DRIVE -DRIVE RIGHT
CUL. -CULVERT RIGHT
C&T -CLEARING & TRIMMING RIGHT
SR -SLOPE RIGHT
UE -UTILITY EASEMENT

APPROVED: HARRY PETROVS DATE: 01/29/10
CHIEF, PLANS & TITLES

PLOT DATE 10/25/10

PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)
FILE NAME: r 92d289 detail sheet.xls
PROJECT LEADER: J. SHULTZ
DESIGNED BY: D. LYMAN
R.O.W. DETAIL SHEET #3
PLOT DATE:
DRAWN BY: M.R.
CHECKED BY: E.P.



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

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

FOR R.O.W. PURPOSES ONLY

R.O.W. LAYOUT SHEET 1

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: 92d289\ROW\r92d289rl1.1	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
R.O.W. SHEET 25 OF 28	SHEET 16 OF 104

900.675 SPECIAL PROVISION (PRECAST CONCRETE GRAVITY RETAINING WALL WITH FENCE)
STA 300+70.00 LT - 302+00.00 LT
STA 300+70.00 RT - 302+00.00 RT

CONSTRUCT DRIVE
STA 200+32.31 LT (13.9' - PAVED)
STA 200+49.49 LT (11.3' - PAVED)
STA 106+63.93 RT (18.0' - PAVED)
STA 107+73.89 RT (57.5' - PAVED)

401.10 AGGREGATE SURFACE COURSE
STA 104+31.22 LT (15.9' - GRAVEL DRIVE)
STA 104+83.50 LT (16.7' - GRAVEL DRIVE)
STA 105+87.17 LT (23.7' - GRAVEL DRIVE)

616.20 GRANITE SLOPE EDGING
STA 105+83.13 RT - 106+55.80 RT
STA 106+66.88 RT - 107+45.52 RT (ISLAND)

616.21 VERTICAL GRANITE CURB
STA 106+75.00 LT - 300+65.45 LT 95' RAD
STA 300+65.45 LT - 302+00.00 LT
STA 108+34.53 LT - 301+00.00 RT 43' RAD
STA 108+34.53 LT - 108+56.68 LT
STA 301+00.00 RT - 302+00.00 RT

616.41 REMOVAL OF EXISTING CURB
STA 106+14.19 RT - 106+54.51 RT
STA 106+65.77 RT - 107+45.70 RT

617.10 RELOCATE MAILBOX, SINGLE SUPPORT
STA 104+43.42 LT
STA 104+97.78 LT
STA 109+77.14 RT

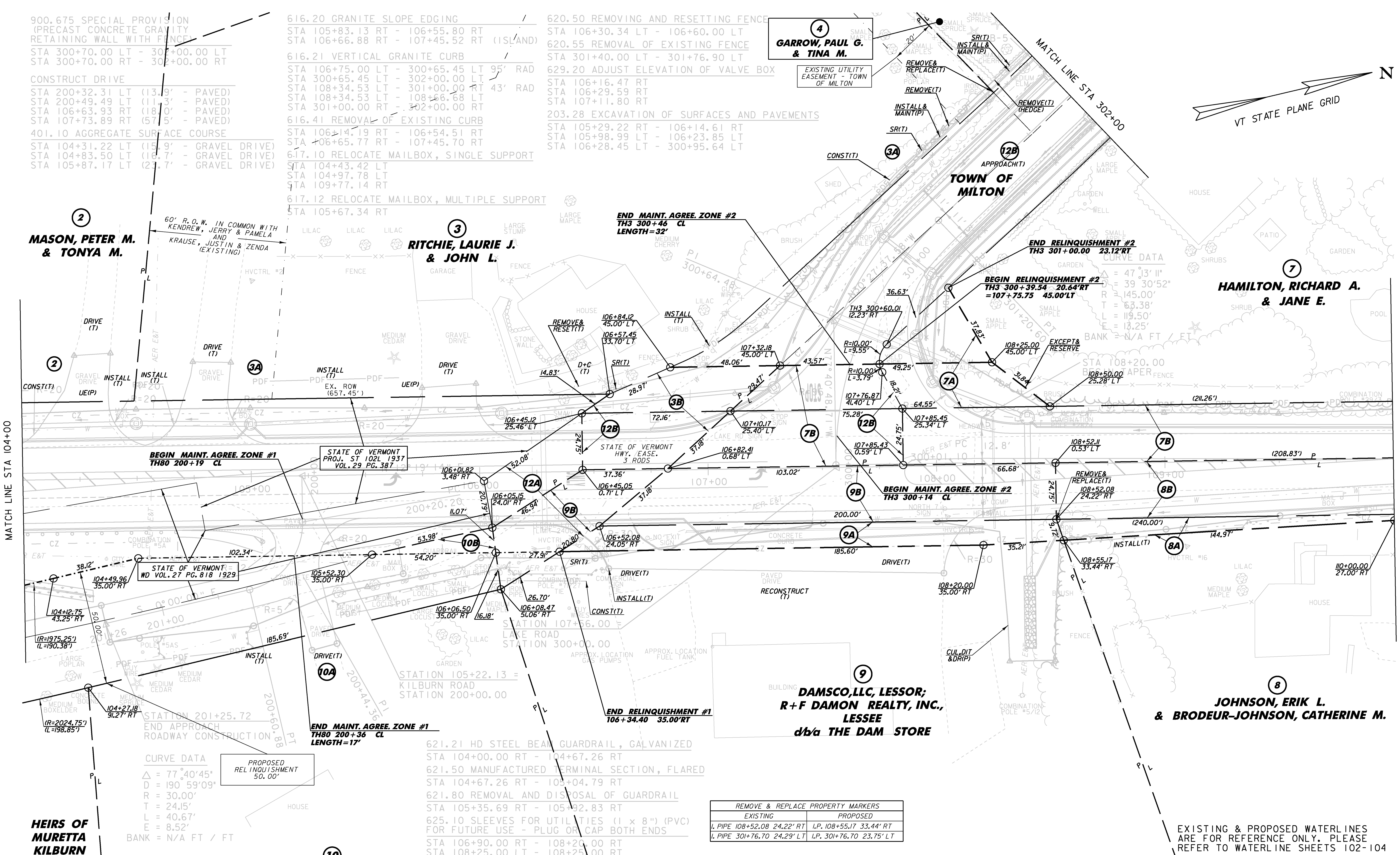
617.12 RELOCATE MAILBOX, MULTIPLE SUPPORT
STA 105+67.34 RT

620.50 REMOVING AND RESETTING FENCE
STA 106+30.34 LT - 106+60.00 LT

620.55 REMOVAL OF EXISTING FENCE
STA 301+40.00 LT - 301+76.90 LT

629.20 ADJUST ELEVATION OF VALVE BOX
STA 106+16.47 RT
STA 106+29.59 RT
STA 107+11.80 RT

203.28 EXCAVATION OF SURFACES AND PAVEMENTS
STA 105+29.22 RT - 106+14.61 RT
STA 105+98.99 LT - 106+23.85 LT
STA 106+28.45 LT - 300+95.64 LT



621.21 HD STEEL BEAM GUARDRAIL, GALVANIZED
STA 104+00.00 RT - 104+67.26 RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA 104+67.26 RT - 105+04.79 RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA 105+35.69 RT - 105+92.83 RT

625.10 SLEEVES FOR UTILITIES (1 x 8") (PVC) FOR FUTURE USE - PLUG OR CAP BOTH ENDS
STA 106+90.00 RT - 108+20.00 RT
STA 108+25.00 LT - 108+25.00 RT
STA 300+60.00 LT - 300+60.00 RT

900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)
STA 104+31.22 LT (PAVED DRIVE APRON)
STA 104+83.50 LT (PAVED DRIVE APRON)
STA 105+87.17 LT (PAVED DRIVE APRON)

REMOVE & REPLACE PROPERTY MARKERS	
EXISTING	PROPOSED
I. PIPE 108+52.08 24.22' RT	I.P. 108+55.17 33.44' RT
I. PIPE 301+76.70 24.29' LT	I.P. 301+76.70 23.75' LT

☒ EXISTING R.O.W. (CALCULATED)

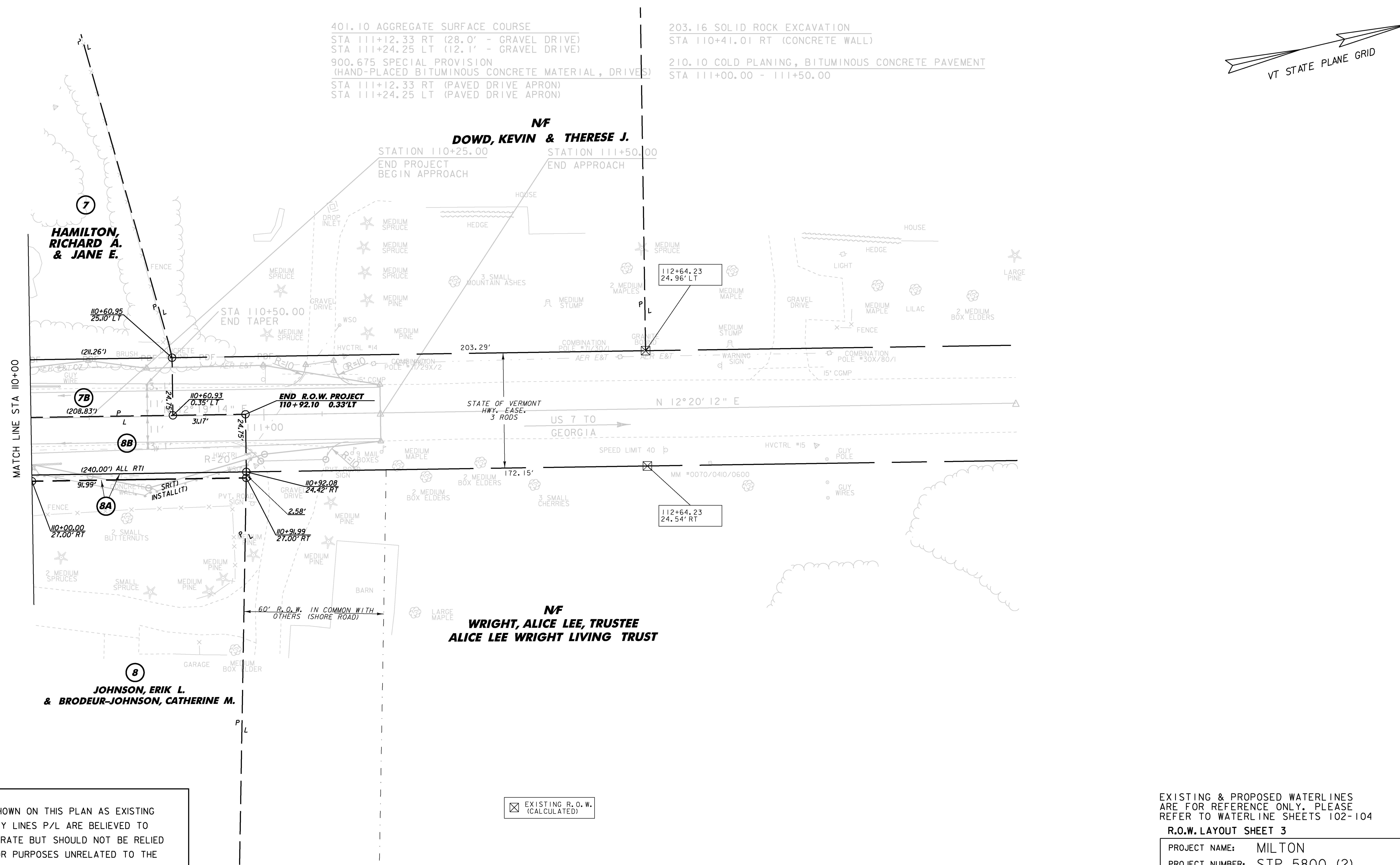
LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

FOR R.O.W. PURPOSES ONLY

R.O.W. LAYOUT SHEET 2

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: 92d289\ROW\r92d289rl2.1	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
R.O.W. SHEET 26 OF 28	SHEET 17 OF 104



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

EXISTING R.O.W. (CALCULATED)

0 20 40
SCALE IN FEET

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

FOR R.O.W. PURPOSES ONLY

R.O.W. LAYOUT SHEET 3

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: 92d289\ROW\r92d289r13.l	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
R.O.W. SHEET 27 OF 28	SHEET 18 OF 104

401.10 AGGREGATE SURFACE COURSE
STA 302+97.06 RT (22.4' - GRAVEL DRIVE)
STA 303+37.16 LT (16.0' - GRAVEL DRIVE)
STA 303+85.78 RT (22.7' - GRAVEL DRIVE)
STA 304+83.64 LT (15.8' - GRAVEL DRIVE)

900.675 SPECIAL PROVISION
(HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)
STA 302+97.06 RT (PAVED DRIVE APRON)
STA 303+37.16 LT (PAVED DRIVE APRON)
STA 303+85.78 RT (PAVED DRIVE APRON)
STA 304+83.64 LT (PAVED DRIVE APRON)

900.675 SPECIAL PROVISION
(PRECAST CONCRETE GRAVITY
RETAINING WALL WITH FENCE)
STA 302+00.00 LT - 302+60.00 LT
STA 302+00.00 RT - 302+60.00 RT

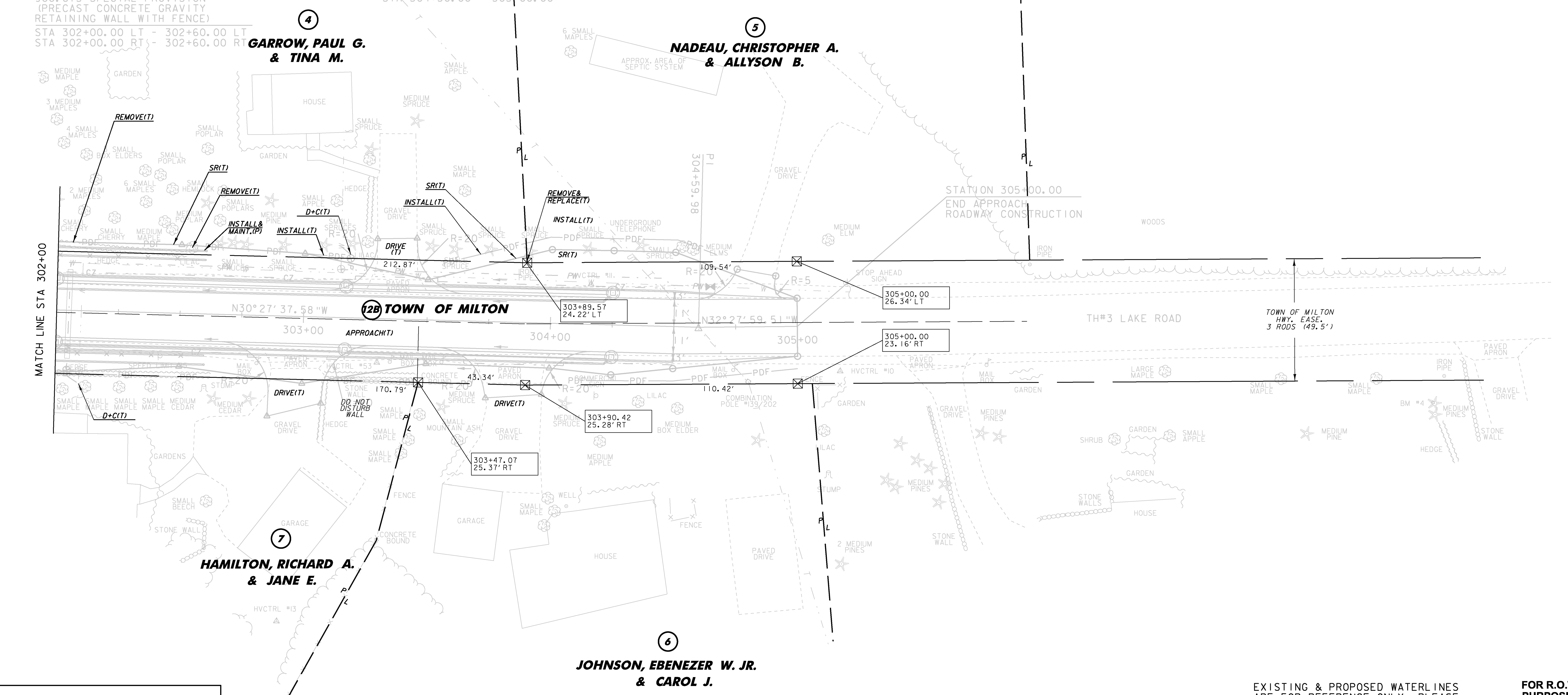
616.21 VERTICAL GRANITE CURB
STA 302+00.00 LT - 303+20.50 LT
STA 302+00.00 RT - 302+77.72 RT
STA 303+16.94 RT - 303+65.31 RT
STA 303+53.91 LT - 304+67.06 LT
STA 304+05.68 RT - 304+50.00 RT

617.10 RELOCATE MAILBOX, SINGLE SUPPORT
STA 302+81.43 RT
STA 303+35.38 RT
STA 303+56.30 RT

210.10 COLD PLANING, BITUMINOUS PAVEMENT
STA 304+50.00 - 305+00.00

⊠ EXISTING R.O.W. (CALCULATED)

REMOVE & REPLACE PROPERTY MARKERS	
EXISTING	PROPOSED
I. PIPE 303+89.90 24.75' LT	I.P. 303+89.57 24.22' LT



0 20 40
SCALE IN FEET

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

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

FOR R.O.W. PURPOSES ONLY

R.O.W. LAYOUT SHEET 4

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: 92d289\ROW\r92d289r14.1	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
R.O.W. SHEET 28 OF 28	SHEET 19 OF 104

GPS CONTROL POINTS

HVCTRL #1

STANDARD DISC STAMPED

"DAUNAIS AZ MK 2004"

N =781132.7590

E = 1480472.7970

ELEV. = 293.6000

GENERAL LOCATION, MILTON, VT. TO REACH FROM THE INTERSECTION OF VT ROUTE 104A AND US ROUTE 7 IN GEORGIA, GO SOUTH ALONG US ROUTE 7 FOR 3.0 MI TO THE INTERSECTION OF LAKE ROAD RIGHT. CONTINUE STRAIGHT AHEAD AND GO SOUTH ALONG US ROUTE 7 FOR 0.7 MI TO THE INTERSECTION OF HOWARD DRIVE RIGHT AND THE SITE OF THE MARK ON THE RIGHT. IT IS SET IN THE GRASSY TRIANGLE FORMED BY US ROUTE 7 AND HOWARD DRIVE OPPOSITE THE WEST END OF THE ARROWHEAD LAKE DAM. THE MARK IS SET ABOUT 5 CM BELOW GROUND SURFACE IN THE TOP OF A 30 CM DIAMETER CONCRETE MONUMENT. IT IS 14.7 M WEST SOUTHWEST OF AND ABOUT 1.0 M HIGHER THAN THE CENTERLINE OF US ROUTE 7, 9.3 M EAST SOUTHEAST OF THE CENTERLINE OF HOWARD DRIVE, 17.7 M SOUTHEAST OF POLE NO 11 01, 17.1 M NORTH OF THE NORTHWEST CORNER OF A STONE RETAINING WALL, AND 0.2 M EAST NORTHEAST OF A FIBERGLASS WITNESS POST

HVCTRL #2

STANDARD DISC STAMPED

"DAUNAIS 2004"

** N = 784642.4690

E = 1480244.1920

ELEV. = 319.5500

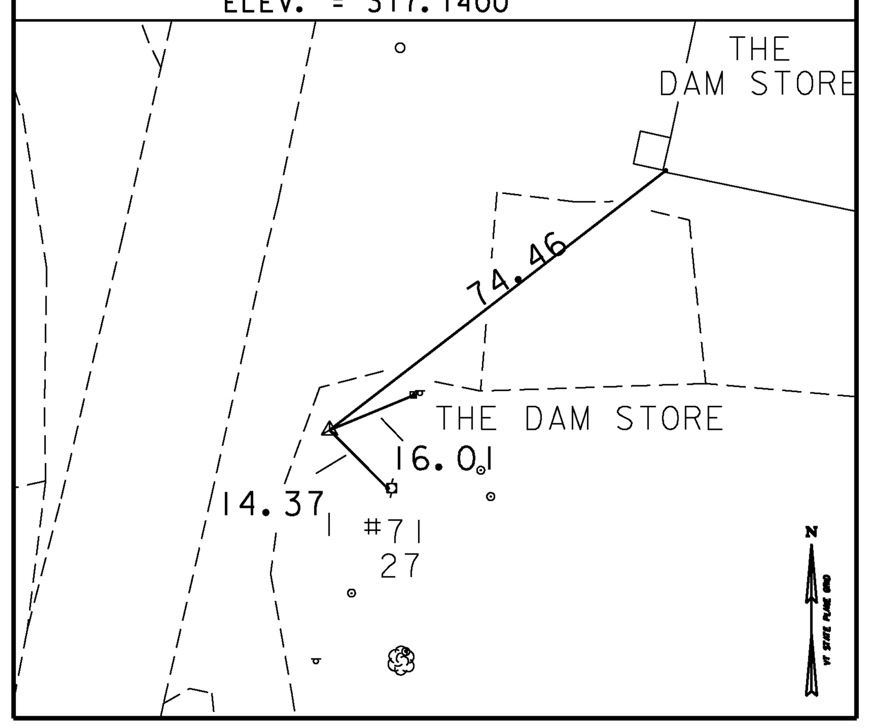
GENERAL LOCATION, MILTON, VT. OWNERSHIP, NICK DAUNAIS, 82 US ROUTE 7 NORTH, MILTON, VT 05468. TO REACH FROM THE INTERSECTION OF VT ROUTE 104A AND US ROUTE 7 IN GEORGIA, GO SOUTH ALONG US ROUTE 7 FOR 3.0 MI TO THE INTERSECTION OF LAKE ROAD RIGHT. CONTINUE STRAIGHT AHEAD AND GO SOUTH ALONG US ROUTE 7 FOR ABOUT 50 M TO THE INTERSECTION OF A GRAVEL DRIVE RIGHT LEADING TO HOUSE NO 82 AND THE SITE OF THE MARK ON THE RIGHT IN A LAWN JUST NORTH OF THE DRIVEWAY. THE MARK IS SET ABOUT 12 CM BELOW GROUND SURFACE IN THE TOP OF A 30 CM DIAMETER CONCRETE MONUMENT POURED 1.3 M DEEP. IT IS 25.8 M NORTHWEST OF AND ABOUT 1.2 M HIGHER THAN THE CENTERLINE OF US ROUTE 7, 3.7 M NORTHEAST OF THE CENTERLINE OF THE GRAVEL DRIVE, 34.5 M EAST OF POLE NO 26-1/5B, 22.1 M SOUTHWEST OF THE SOUTH CORNER OF A SMALL GARAGE, AND 4.7 M SOUTH SOUTHEAST OF THE SOUTHWEST END OF A PICKET FENCE.

* DESCRIPTION PROVIDED BY VERMONT AGENCY OF TRANSPORTATION GEODETIC SURVEY UNIT

TRAVERSE TIES

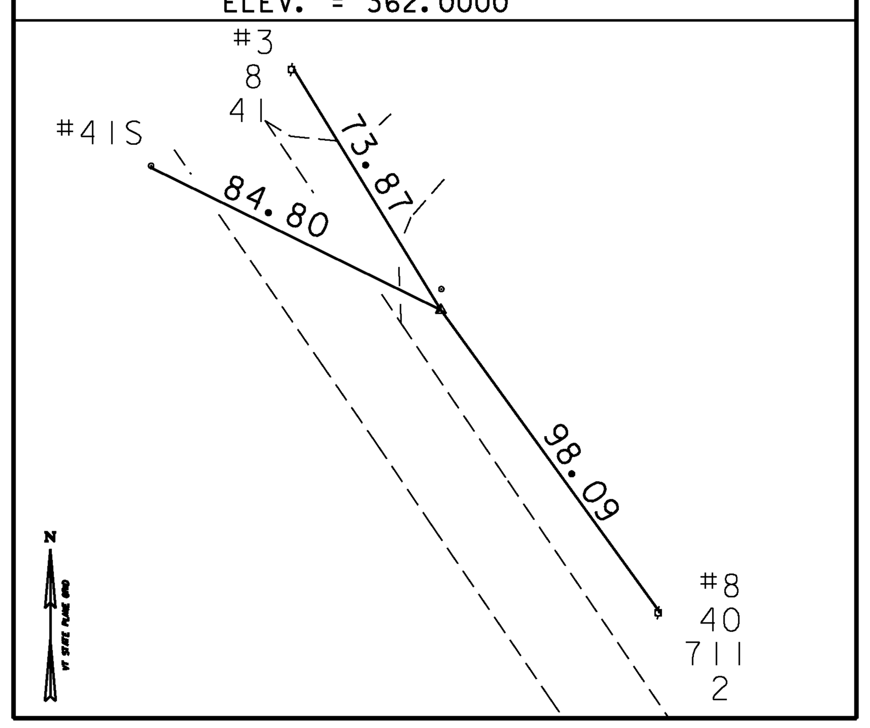
HVCTRL #3

NORTH	= 784756.5883
EAST	= 1480387.336
ELEV.	= 317.1400



HVCTRL #4

NORTH	= 785661.4945
EAST	= 1479858.898
ELEV.	= 362.0000



* MAIN TRAVERSE COMPLETED: JUNE 14, 2004 BY L.ORVIS PC/ J.HULETT

ALIGNMENT TIES

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD-83(96)
ADJUSTMENT	UNAJUSTED

PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)

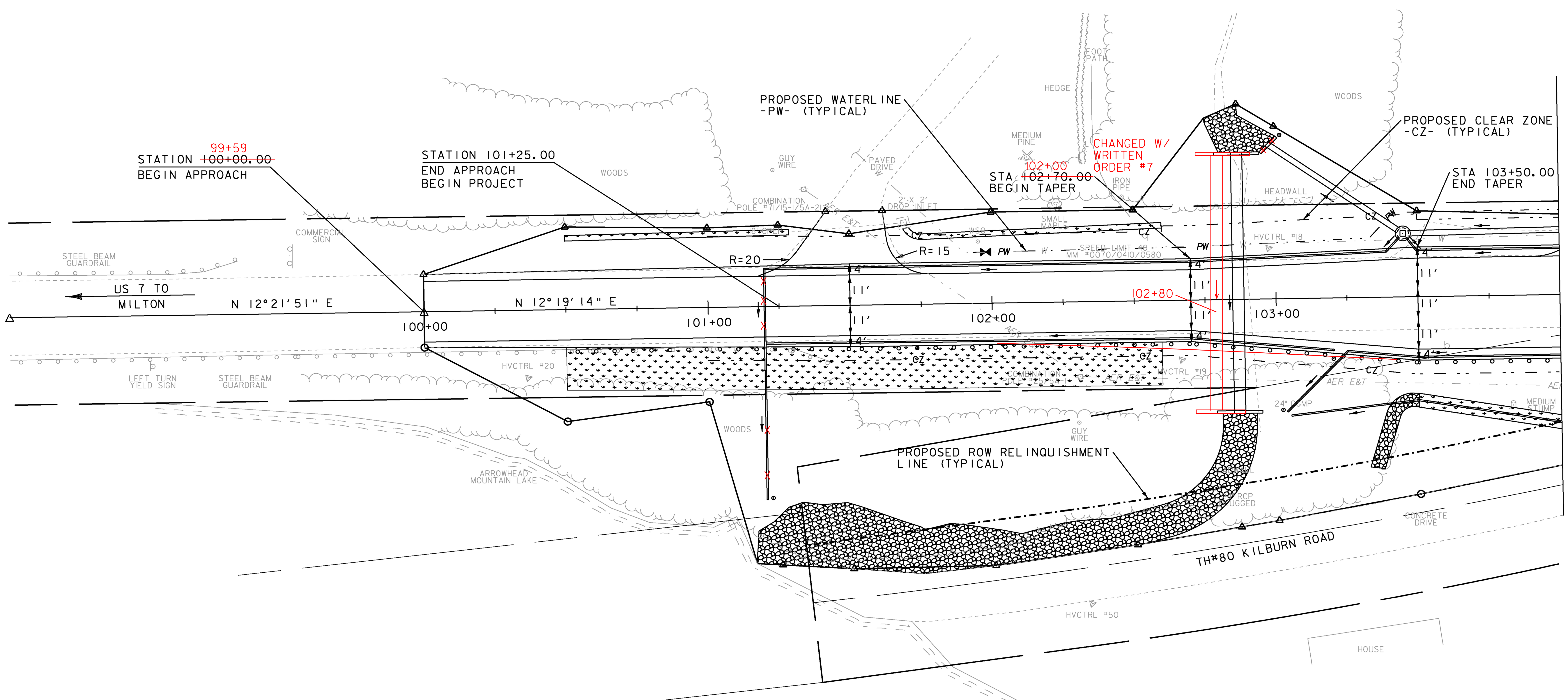
FILE NAME: 92d289\Survey\x92d289ti.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J.H. & R.B.
DESIGNED BY: D. LYMAN	CHECKED BY: P. HODGE
TIE SHEET	SHEET 20 OF 104

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA 100+50.00 RT - 101+42.67 RT
621.21 HD STEEL BEAM GUARDRAIL, GALVANIZED
STA 100+50.00 RT - 104+00.00 RT

NOTE: MATCH PROPOSED HD STEEL BEAM GUARDRAIL INTO EXISTING GUARDRAIL AT STA 100+50.00 RT

CONSTRUCT DRIVE
STA 101+52.44 LT (20.0' - PAVED)
629.20 ADJUST ELEVATION OF VALVE BOX
STA 101+95.31 LT
210.10 COLD PLANING, BITUMINOUS CONCRETE PAVEMENT
STA 100+00.00 - 100+50.00

N
VT STATE PLANE GRID

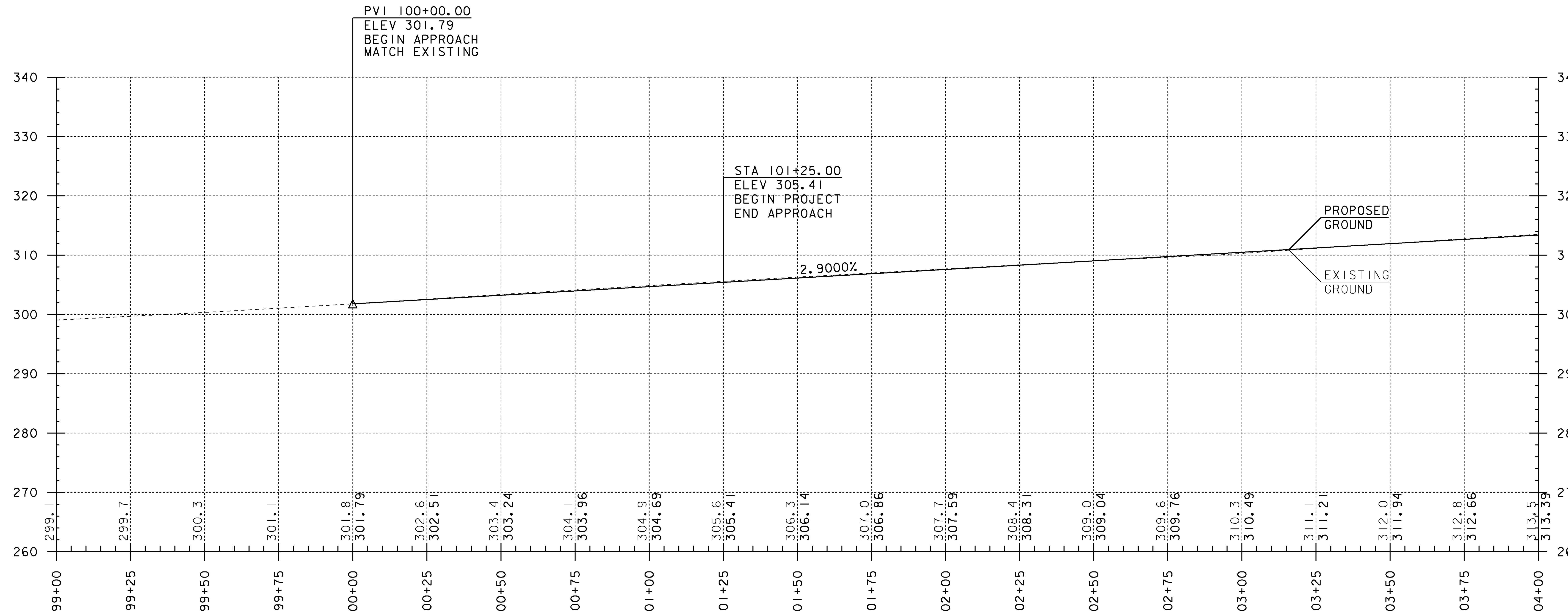


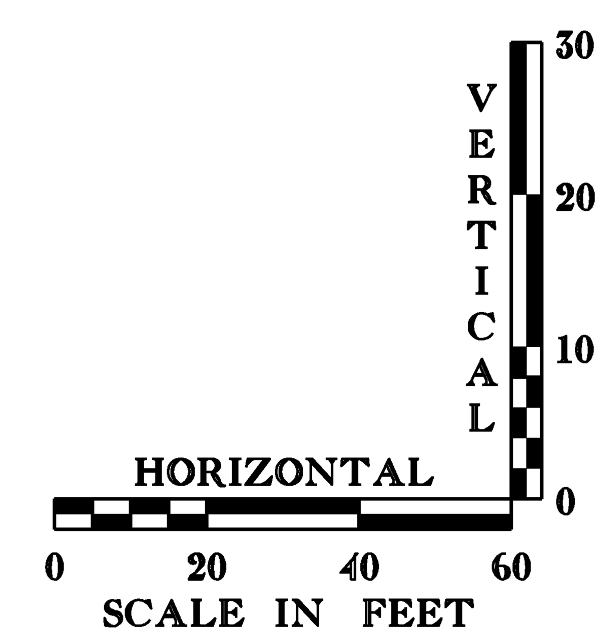
EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

0 20 40
SCALE IN FEET

PROJECT NAME:	MILTON
PROJECT NUMBER:	STP 5800 (2)

FILE NAME: t92d289bdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
LAYOUT SHEET 1	SHEET 21 OF 104





THE ELEVATIONS SHOWN TO THE NEAREST TENTH ARE THE OLD GROUND ALONG CENTERLINE. THE ELEVATIONS SHOWN TO THE NEAREST HUNDRETH ARE THE PROPOSED FINISHED GRADE ALONG CENTERLINE.

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92d289profile.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
US ROUTE 7 - PROFILE SHEET 1	SHEET 22 OF 104

900.675 SPECIAL PROVISION
(PRECAST CONCRETE GRAVITY
RETAINING WALL WITH FENCE)
STA 300+70.00 LT - 302+00.00 LT
STA 300+70.00 RT - 302+00.00 RT

CONSTRUCT DRIVE
STA 200+32.31 LT (13.9' - PAVED)
STA 200+49.49 LT (11.3' - PAVED)
STA 106+63.93 RT (18.0' - PAVED)
STA 107+73.89 RT (57.5' - PAVED)

401.10 AGGREGATE SURFACE COURSE
STA 104+31.22 LT (15.9' - GRAVEL DRIVE)
STA 104+83.50 LT (16.7' - GRAVEL DRIVE)
STA 105+87.17 LT (23.7' - GRAVEL DRIVE)

616.20 GRANITE SLOPE EDGING
STA 105+83.13 RT - 106+55.80 RT
STA 106+66.88 RT - 107+45.52 RT (ISLAND)

616.21 VERTICAL GRANITE CURB
STA 106+75.00 LT - 300+65.45 LT 95' RAD
STA 300+65.45 LT - 302+00.00 LT
STA 108+34.53 LT - 301+00.00 RT 43' RAD
STA 108+34.53 LT - 108+66.68 LT
STA 301+00.00 RT - 302+00.00 RT

616.41 REMOVAL OF EXISTING CURB
STA 106+14.19 RT - 106+54.51 RT
STA 106+65.77 RT - 107+45.70 RT

617.10 RELOCATE MAILBOX, SINGLE SUPPORT
STA 104+43.42 LT
STA 104+97.78 LT
STA 109+77.14 RT

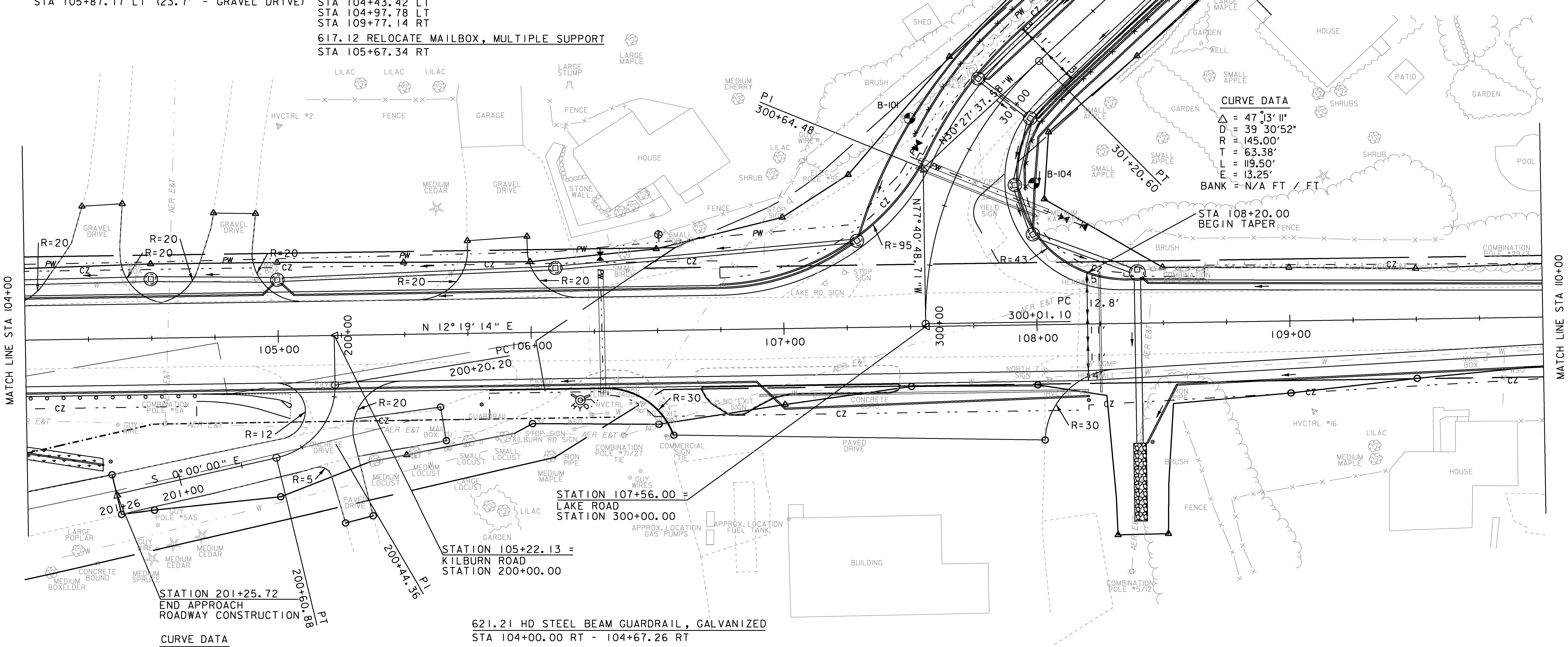
617.12 RELOCATE MAILBOX, MULTIPLE SUPPORT
STA 105+67.34 RT

620.50 REMOVING ~~AND RESETTING FENCE~~
STA 106+30.34 LT - 106+60.00 LT

620.55 REMOVAL OF EXISTING FENCE
STA 301+40.00 LT - 301+76.90 LT

629.20 ADJUST ELEVATION OF VALVE BOX
STA 106+16.47 RT
STA 106+29.59 RT
STA 107+11.80 RT

203.28 EXCAVATION OF SURFACES AND PAVEMENTS
STA 105+29.22 RT - 106+14.61 RT
STA 105+98.99 LT - 106+23.85 LT
STA 106+28.45 LT - 300+95.64 LT



CURVE DATA
Δ = 77°40'45"
D = 190°59'09"
R = 30.00'
T = 24.15'
L = 40.67'
E = 8.52'
BANK = N/A FT / FT

621.21 HD STEEL BEAM GUARDRAIL, GALVANIZED
STA 104+00.00 RT - 104+67.26 RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA 104+67.26 RT - 105+04.79 RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA 105+35.69 RT - 105+92.83 RT

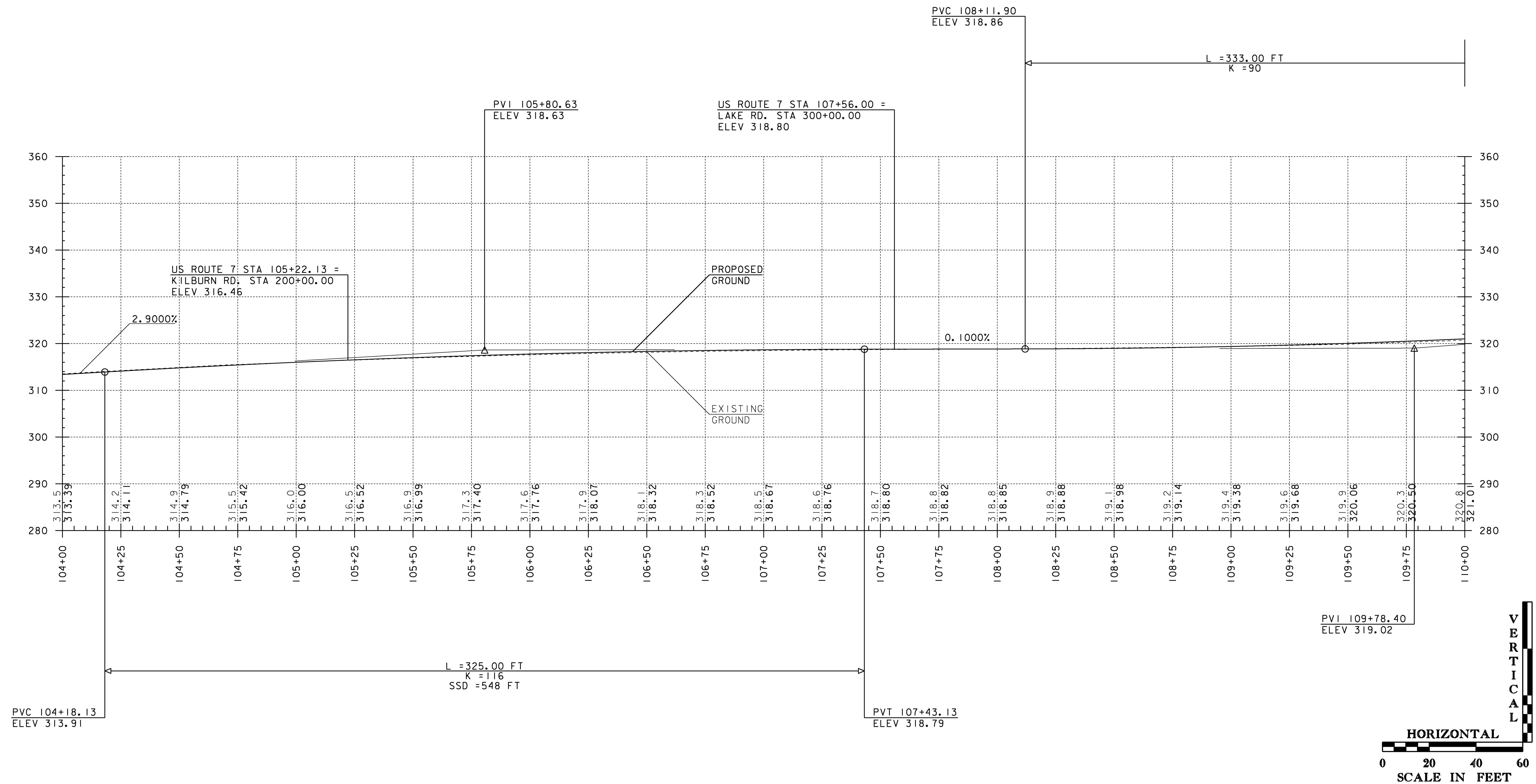
625.10 SLEEVES FOR UTILITIES (1 x 8") (PVC)
FOR FUTURE USE - PLUG OR CAP BOTH ENDS
STA 106+90.00 RT - 108+20.00 RT
STA 108+25.00 LT - 108+25.00 RT
STA 300+60.00 LT - 300+60.00 RT

900.675 SPECIAL PROVISION
(HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)
STA 104+31.22 LT (PAVED DRIVE APRON)
STA 104+83.50 LT (PAVED DRIVE APRON)
STA 105+87.17 LT (PAVED DRIVE APRON)

EXISTING & PROPOSED WATERLINES
ARE FOR REFERENCE ONLY. PLEASE
REFER TO WATERLINE SHEETS 102-104

0 20 40
SCALE IN FEET

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92d289bdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
LAYOUT SHEET 2	SHEET 23 OF 104



THE ELEVATIONS SHOWN TO THE NEAREST TENTH ARE THE OLD GROUND ALONG CENTERLINE. THE ELEVATIONS SHOWN TO THE NEAREST HUNDRETH ARE THE PROPOSED FINISHED GRADE ALONG CENTERLINE.

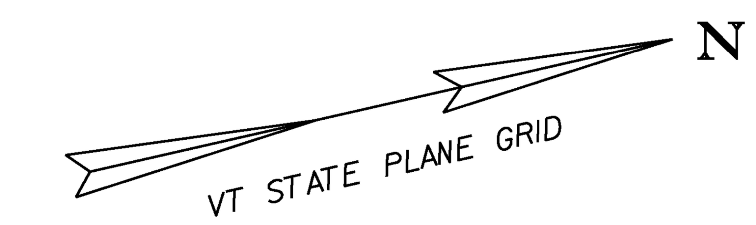
PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92d289profile.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
US ROUTE 7 - PROFILE SHEET 2	SHEET 24 OF 104

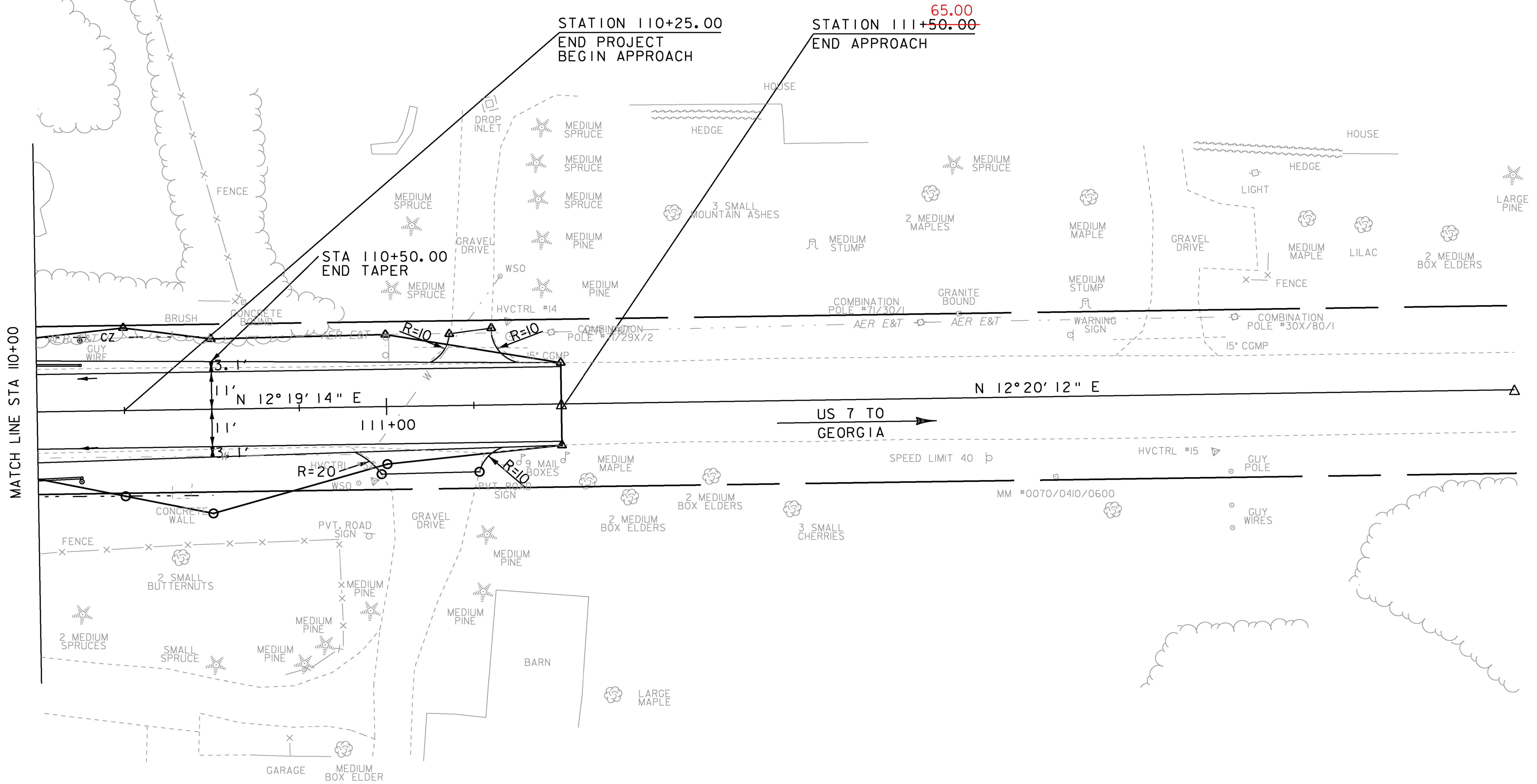
401.10 AGGREGATE SURFACE COURSE
STA 111+12.33 RT (28.0' - GRAVEL DRIVE)
STA 111+24.25 LT (12.1' - GRAVEL DRIVE)

900.675 SPECIAL PROVISION
(HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)
STA 111+12.33 RT (PAVED DRIVE APRON)
STA 111+24.25 LT (PAVED DRIVE APRON)

203.16 SOLID ROCK EXCAVATION
STA 110+41.01 RT (CONCRETE WALL)

210.10 COLD PLANING, BITUMINOUS CONCRETE PAVEMENT
STA 111+~~00.00~~ 10.00 - 111+~~50.00~~ 65.00

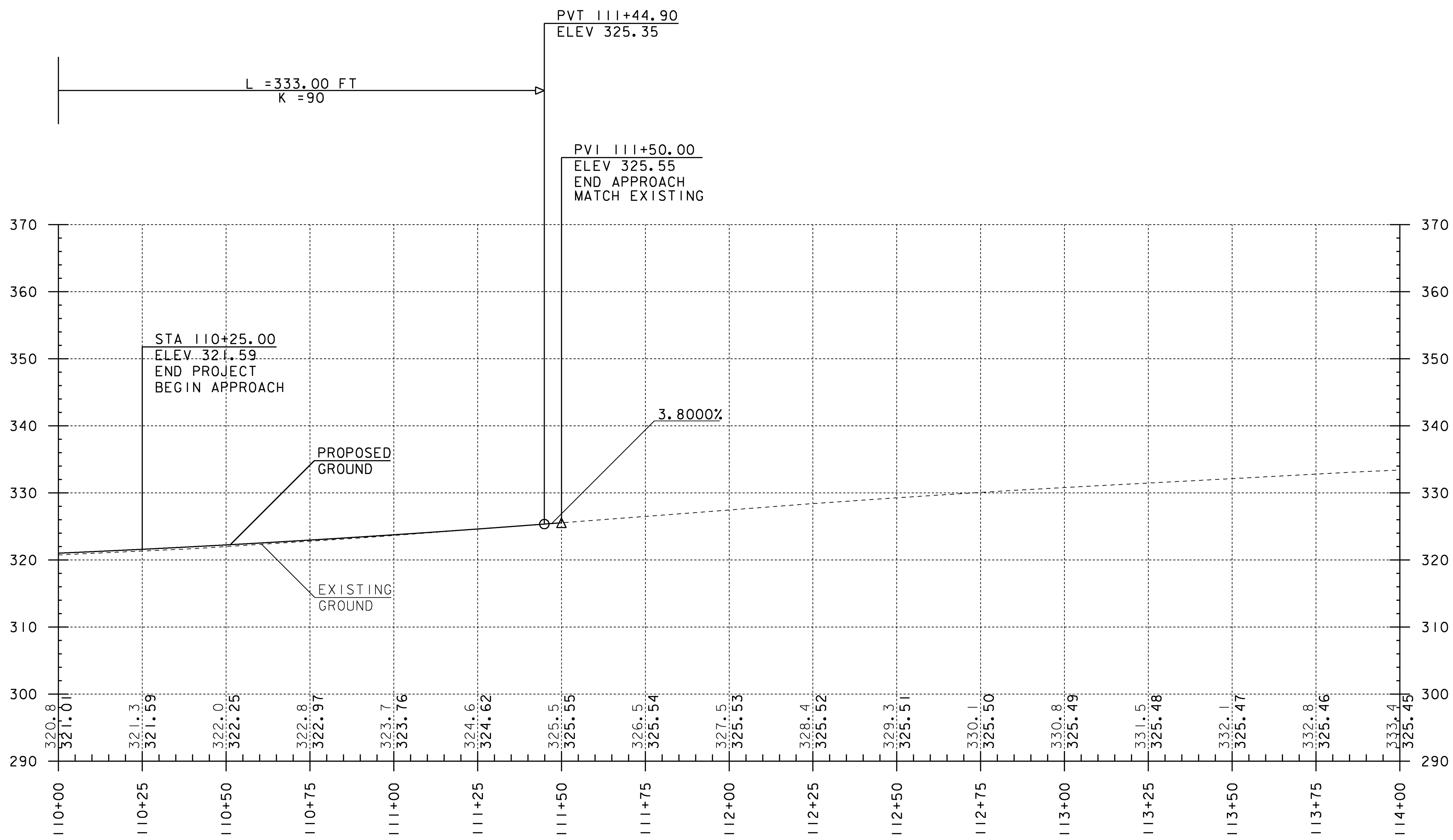


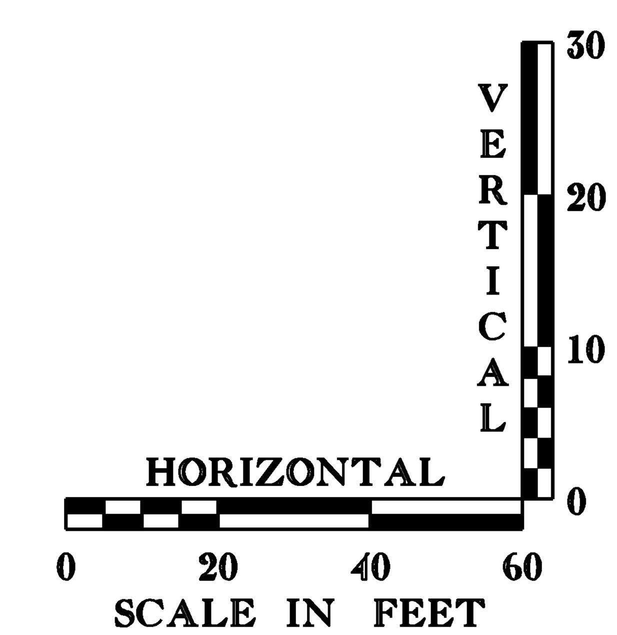


EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

0 20 40
SCALE IN FEET

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92d289bdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
LAYOUT SHEET 3	SHEET 25 OF 104





THE ELEVATIONS SHOWN TO THE NEAREST TENTH ARE THE OLD GROUND ALONG CENTERLINE. THE ELEVATIONS SHOWN TO THE NEAREST HUNDRETH ARE THE PROPOSED FINISHED GRADE ALONG CENTERLINE.

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92d289profile.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
US ROUTE 7 - PROFILE SHEET 3	SHEET 26 OF 104

401.10 AGGREGATE SURFACE COURSE

STA 302+97.06 RT (22.4' - GRAVEL DRIVE)
STA 303+37.16 LT (16.0' - GRAVEL DRIVE)
STA 303+85.78 RT (22.7' - GRAVEL DRIVE)
STA 304+83.64 LT (15.8' - GRAVEL DRIVE)

900.675 SPECIAL PROVISION
(HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)

STA 302+97.06 RT (PAVED DRIVE APRON)
STA 303+37.16 LT (PAVED DRIVE APRON)
STA 303+85.78 RT (PAVED DRIVE APRON)
STA 304+83.64 LT (PAVED DRIVE APRON)

900.675 SPECIAL PROVISION
(PRECAST CONCRETE GRAVITY
RETAINING WALL WITH FENCE)

STA 302+00.00 LT - 302+60.00 LT
STA 302+00.00 RT - 302+60.00 RT

616.21 VERTICAL GRANITE CURB

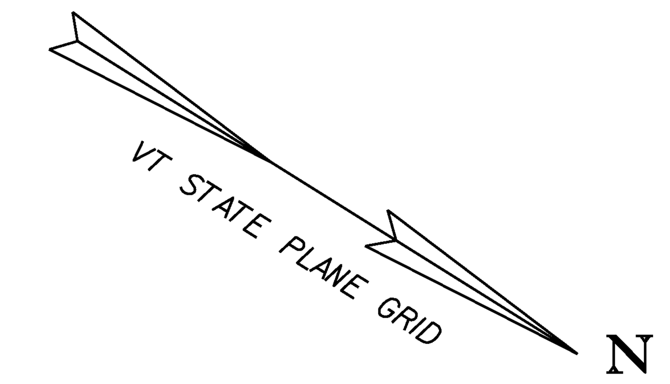
STA 302+00.00 LT - 303+20.50 LT
STA 302+00.00 RT - 302+77.72 RT
STA 303+16.94 RT - 303+65.31 RT
STA 303+53.91 LT - 304+67.06 LT
STA 304+05.68 RT - 304+50.00 RT

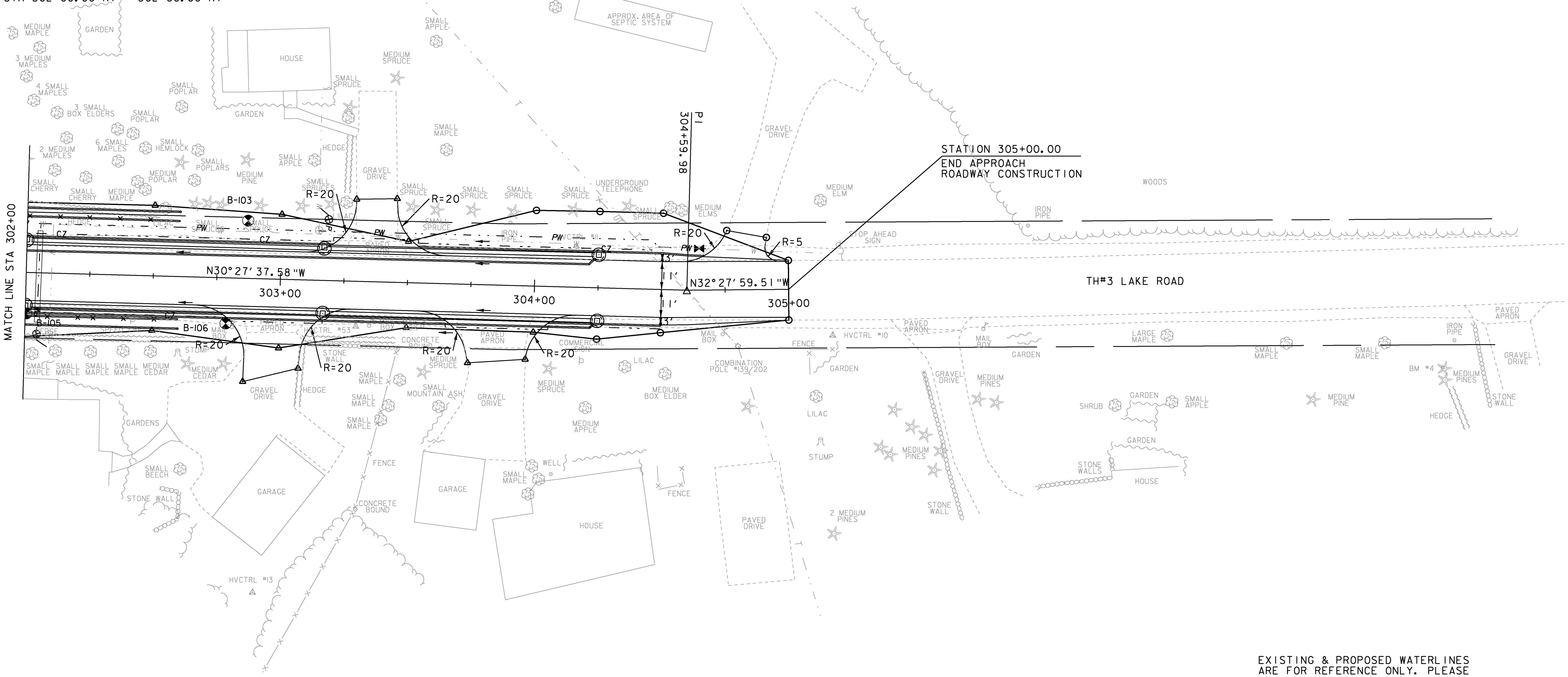
617.10 RELOCATE MAILBOX, SINGLE SUPPORT

STA 302+81.43 RT
STA 303+35.38 RT
STA 303+56.30 RT

210.10 COLD PLANING, BITUMINOUS PAVEMENT

STA 304+50.00 - 305+00.00

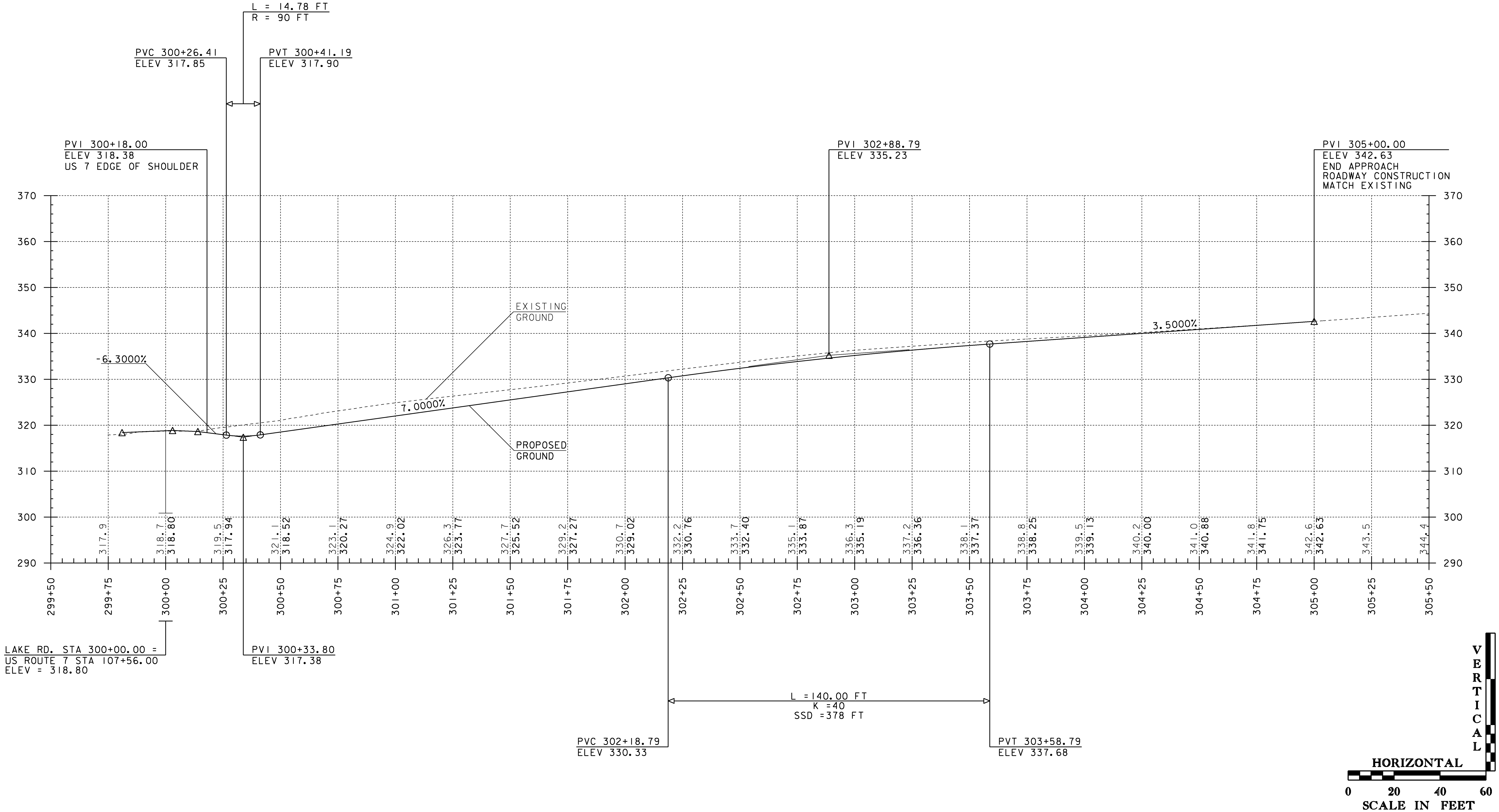




EXISTING & PROPOSED WATERLINES
ARE FOR REFERENCE ONLY. PLEASE
REFER TO WATERLINE SHEETS 102-104

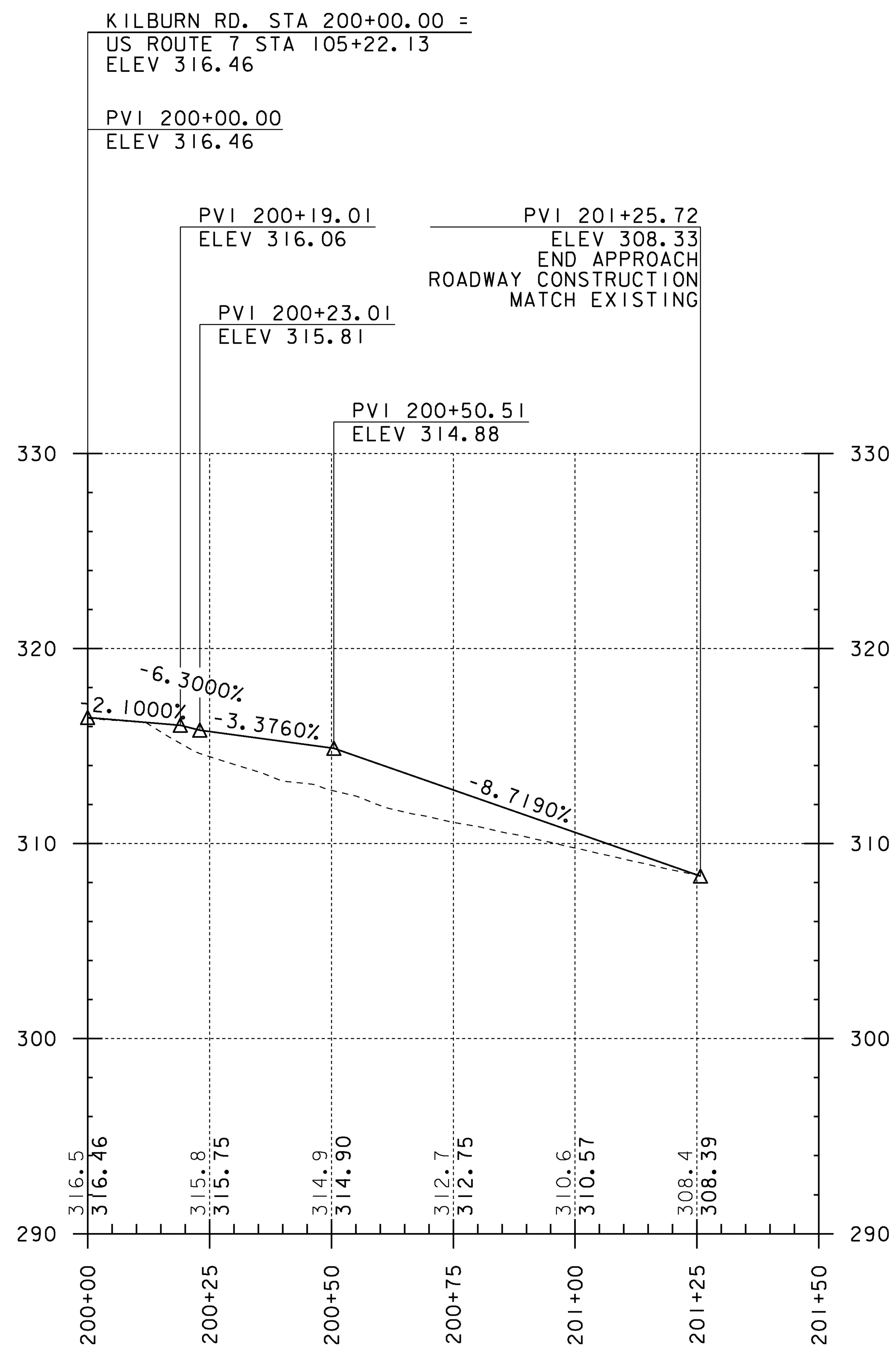
0 20 40
SCALE IN FEET

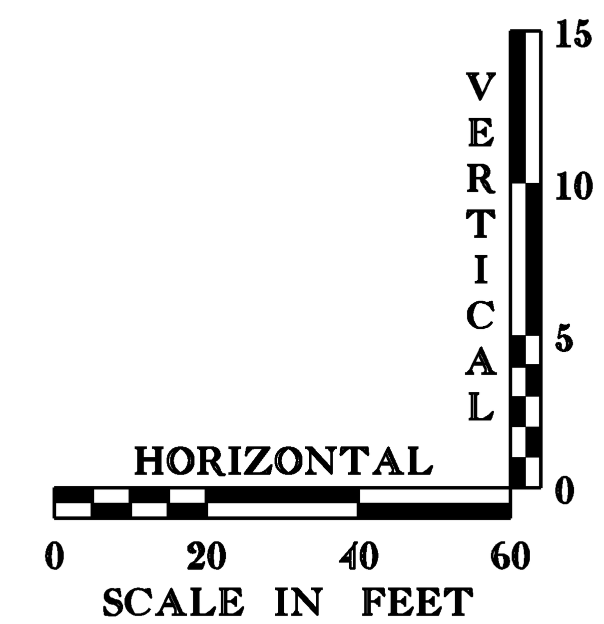
PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92d289bdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
LAYOUT SHEET 4	SHEET 27 OF 104



THE ELEVATIONS SHOWN TO THE NEAREST TENTH ARE THE OLD GROUND ALONG CENTERLINE. THE ELEVATIONS SHOWN TO THE NEAREST HUNDRETH ARE THE PROPOSED FINISHED GRADE ALONG CENTERLINE.

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92d289profile.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
LAKE ROAD - PROFILE SHEET 1	SHEET 28 OF 104





THE ELEVATIONS SHOWN TO THE NEAREST TENTH ARE THE OLD GROUND ALONG CENTERLINE. THE ELEVATIONS SHOWN TO THE NEAREST HUNDRETH ARE THE PROPOSED FINISHED GRADE ALONG CENTERLINE.

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92d289profile.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
KILBURN ROAD - PROFILE SHEET 1	SHEET 29 OF 104

NEW DRAINAGE

(15) STA 104+50.00 LT - 103+45.00 LT
NEW 24" X 105' RCP/CPEP(SL)
W/4' PRRCB @ STA 104+50.00 LT
OFFSET = 24.07' W/GRATE TYPE A(I)

(16) STA 103+45.00 LT - 102+97.60 LT
NEW 24" X 58' PCCSP/CAAP/CPEP
W/REINFORCED CONCRETE HEADWALL (TYP) @ OUTLET
W/4' PRCCB @ STA 103+45.00 LT
OFFSET = 23.00' W/GRATE TYPE A(I)

(17) STA 102+~~86.76~~ 80.0 LT - 102+~~86.76~~ 80.0 RT
NEW 48" X 95' PCCSP/CAAP
W/REINFORCED CONCRETE HEADWALL (TYP) @ INLET
W/REINFORCED CONCRETE HEADWALL (TYP) @ OUTLET

613.11 STONE FILL, TYPE II
STA 101+15.90 RT - 102+92.76 RT
STA 102+75.41 LT - 103+00.44 LT
STA 103+32.55 RT - 103+50.00 RT

649.31 GEOTEXTILE UNDER STONE FILL
STA 101+15.90 RT - 102+92.76 RT
STA 102+75.41 LT - 103+00.44 LT
STA 102+88.76 LT - 102+97.71 LT
STA 103+32.55 RT - 103+50.00 RT

619.17 YIELDING MARKER POSTS
STA 101+22.00 RT
STA 103+02.00 LT
STA 103+02.00 RT
STA 103+20.00 RT

605.10 6 INCH UNDERDRAIN PIPE

(6) STA 104+94.17 LT - 103+49.59 LT
NEW 6" X 145' UNDERDRAIN PIPE

(7) STA 108+20.00 RT - 103+25.13 RT
NEW 6" X 500' UNDERDRAIN PIPE
W/FLUSHING BASIN @ 108+20.00 RT
FLUSHING BASIN @ 105+80.00 RT

(8) STA 103+38.99 LT - 101+20.00 LT
NEW 6" X 219' UNDERDRAIN PIPE

(9) STA ~~103+20.00~~ 102+65 RT - 101+20.00 RT
NEW 6" X 200' UNDERDRAIN PIPE
W/FLUSHING BASIN @ STA ~~103+20.00~~ 101+20 RT

NEW STORMWATER TREATMENT PRACTICE
DISCHARGE PERMIT #6019-INDS
STA 100+50.00 RT - 102+60.00 RT
"DISCONNECTION OF NON-ROOFTOP RUNOFF CREDIT"

601.995 CLEANING CULV. PIPE, IN-PLACE

(1) STA 101+69.18 LT - 101+28.64 LT
EXISTING 18" CPEP & CONCRETE DI

605.20 6 INCH UNDERDRAIN CARRIER PIPE

(19) STA 103+49.59 LT - 103+45.00 LT
NEW 6" X 6' UNDERDRAIN CARRIER PIPE

(20) STA 103+25.13 RT - 103+03.50 RT
NEW 6" X 31' UNDERDRAIN CARRIER PIPE

(21) STA 103+45.00 LT - 103+38.99 LT
NEW 6" X 7' UNDERDRAIN CARRIER PIPE
W/URBAN FLUSHING BASIN @
STA 103+45.00 LT

(22) STA 101+20.00 LT - 101+20.00 RT
NEW 6" X 84' UNDERDRAIN CARRIER PIPE

(25) STA 103+50.00 RT - 103+04.92 RT
NEW 6" X 45' UNDERDRAIN CARRIER PIPE

NEW STORMWATER TREATMENT PRACTICE
DISCHARGE PERMIT #6019-INDS
STA 100+50.00 LT - 101+28.71 LT
STA 101+75.00 LT - 102+60.00 LT
GRASS CHANNEL - 2' BOTTOM WIDTH

EXISTING DRAINAGE

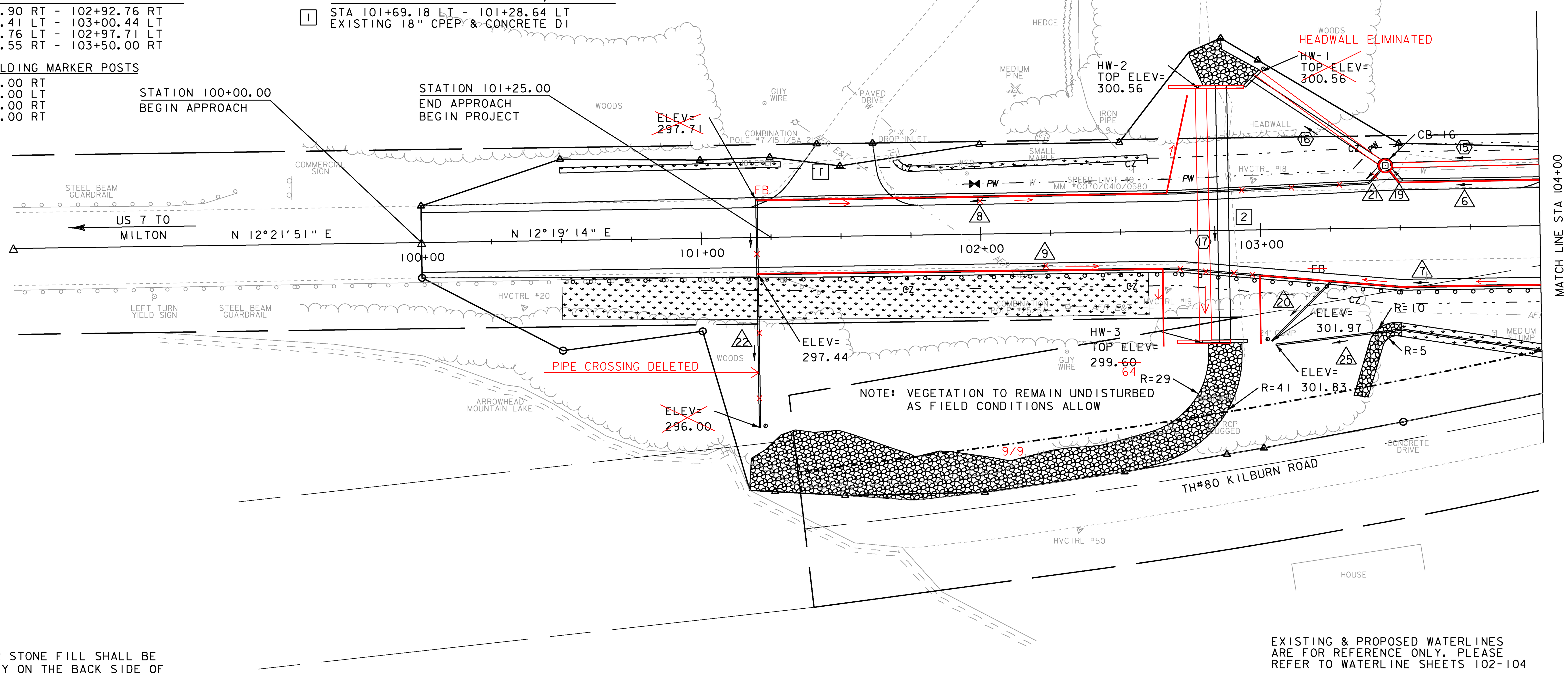
(1) STA 101+69.18 LT - 101+28.64 LT
EXISTING 18" CPEP & CONCRETE DI = RETAIN

(2) STA 102+88.46 LT - 102+93.77 RT
EXISTING 24" X 84' CGMP & HEADWALL = REMOVE

900.640 SPECIAL PROVISION
(6 INCH UNDERDRAIN PIPE, DRY SWALE)
NEW STORMWATER TREATMENT PRACTICE
DISCHARGE PERMIT #6019-INDS
STA 104+30.00 RT - 103+50.00 RT
NEW 6" X 81' UNDERDRAIN PIPE
W/FLUSHING BASIN @ STA 104+30.00 RT

N
VT STATE PLANE GRID

STORMWATER TREATMENT PRACTICE



NOTE:
GEOTEXTILE UNDER STONE FILL SHALL BE PLACED VERTICALLY ON THE BACK SIDE OF HEADWALL 1 AND HEADWALL 2, BETWEEN PIPES 16 AND 17 TO PREVENT MATERIAL MIGRATION.

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

0 20 40
SCALE IN FEET

PROJECT NAME:	MILTON
PROJECT NUMBER:	STP 5800 (2)
FILE NAME: t92d289bdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
DRAINAGE LAYOUT 1	SHEET 30 OF 104

NEW DRAINAGE

⑤ STA 302+00.00 LT - 301+00.00 LT
NEW 18" X 102' RCP/CPEP (SL)
W/4' PRCCB @ STA 302+00.00 LT
OFFSET = 12.83' W/GRATE TYPE D (I)

⑥ STA 302+00.00 RT - 301+00.00 RT
NEW 18" X 98' RCP/CPEP (SL)
W/4' PRCCB @ STA 302+00.00 RT
OFFSET = 12.80' W/GRATE TYPE D (I)

⑦ STA 301+00.00 LT - 301+00.00 RT
NEW 18" X 26' RCP/CPEP (SL)
W/4' PRCCB @ STA 301+00.00 LT
OFFSET = 13.00' W/GRATE TYPE D (I)

⑧ STA 301+00.00 RT - 300+70.00 RT
NEW 24" X 28' RCP/CPEP (SL)
W/4' PRCCB @ STA 301+00.00 RT
OFFSET = 13.17' W/GRATE TYPE D (I)

⑨ STA 300+70.00 RT - 300+50.00 RT
NEW 24" X 21' RCP/CPEP (SL)
W/4' PRCCB @ STA 300+70.00 RT
OFFSET = 22.60' W/GRATE TYPE D (I)

⑩ STA 300+50.00 RT - 108+40.00 LT
NEW 24" X 44' RCP/CPEP (SL)
W/4' PRCCB @ STA 300+50.00 RT
OFFSET = 36.87' W/GRATE TYPE D (I)

⑪ STA 108+40.00 LT - 108+40.00 RT
NEW 30" X 71' RCP/CPEP (SL)
W/5' PRCCB CB @ STA 108+40.00 LT
OFFSET = 20.64' W/GRATE TYPE D (I)

⑫ STA 107+29.41 LT - 106+10.00 LT
NEW 18" X 120' RCP/CPEP (SL)
W/4' PRCCB @ STA 107+29.41 LT
OFFSET = 35.36' W/GRATE TYPE D (I)

⑬ STA 106+10.00 LT - 105+00.00 LT
NEW 18" X 110' RCP/CPEP (SL)
W/4' PRCCB @ STA 106+10.00 LT
OFFSET = 26.08' W/GRATE TYPE A (I)

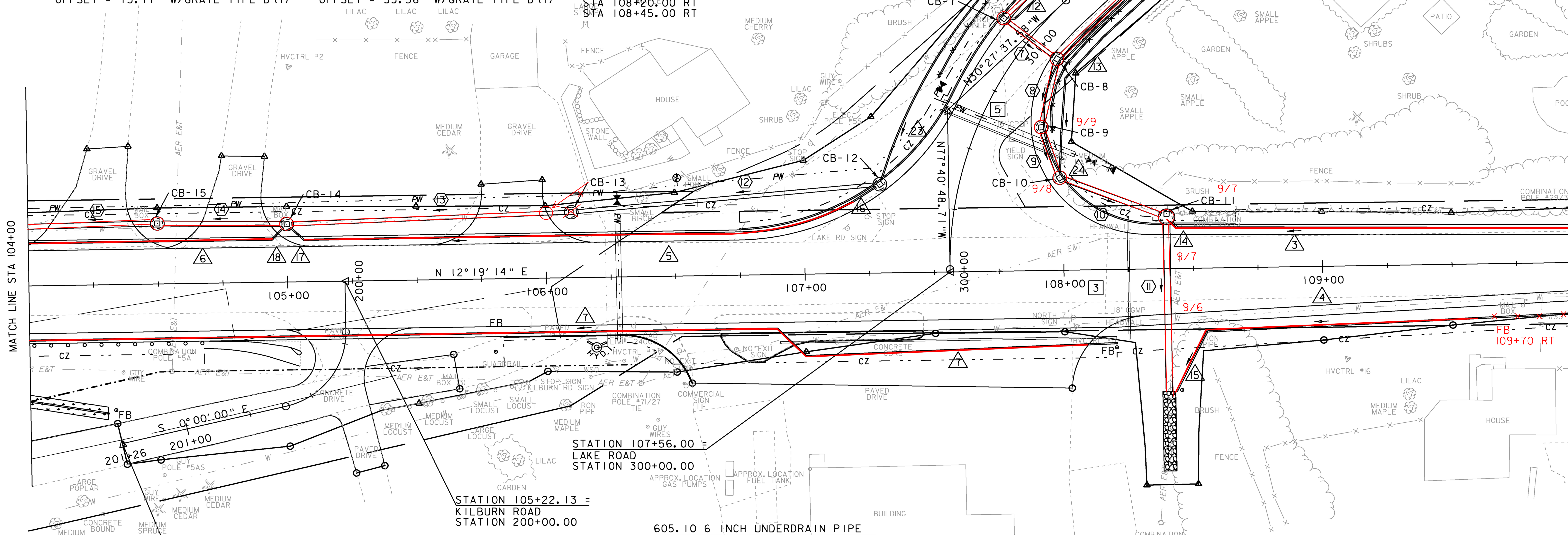
⑭ STA 105+00.00 LT - 104+50.00 LT
NEW 24" X 50' RCP/CPEP (SL)
W/4' PRCCB @ STA 105+00.00 LT
OFFSET = 23.00' W/GRATE TYPE A (I)

⑮ STA 104+50.00 LT - 103+45.00 LT
NEW 24" X 105' RCP/CPEP (SL)
W/4' PRCCB @ STA 104+50.00 LT
OFFSET = 24.07' W/GRATE TYPE A (I)

649.31 GEOTEXTILE UNDER STONE FILL
STA 108+40.00 RT
32' X 5' X 2'

613.11 STONE FILL, TYPE II
STA 108+40.00 RT
32' X 5' X 2'

619.17 YIELDING MARKER POSTS
STA 104+33.00 RT
STA 105+80.00 RT
STA 108+20.00 RT
STA 108+45.00 RT



STORMWATER TREATMENT PRACTICE

605.20 6 INCH UNDERDRAIN CARRIER PIPE

⑫ STA 301+02.39 LT - 301+01.00 LT
NEW 6" X 2' UNDERDRAIN CARRIER PIPE

⑬ STA 301+02.23 RT - 301+00.00 RT
NEW 6" X 3' UNDERDRAIN CARRIER PIPE

⑭ STA 108+44.16 LT - 108+40.00 LT
NEW 6" X 4' UNDERDRAIN CARRIER PIPE

⑮ STA 108+55.00 RT - 108+42.92 RT
NEW 6" X 27' UNDERDRAIN CARRIER PIPE

⑯ STA 107+29.41 LT - 107+19.34 LT
NEW 6" X 10' UNDERDRAIN CARRIER PIPE
W/URBAN FLUSHING BASIN @
STA 107+29.41 LT

⑰ STA 105+06.55 LT - 105+00.00 LT
NEW 6" X 7' UNDERDRAIN CARRIER PIPE

⑱ STA 105+00.00 LT - 104+94.17 LT
NEW 6" X 7' UNDERDRAIN CARRIER PIPE
W/URBAN FLUSHING BASIN @
STA 105+00.00 LT

NOTE: UNDERDRAIN CARRIER PIPE #23 AND #24 SHALL BE CONNECTED TO UNDERDRAIN FROM RETAINING WALL

㉓ STA 300+70.00 LT - 107+29.41 LT
NEW 6" X 47' UNDERDRAIN CARRIER PIPE

㉔ STA 300+70.00 RT - 300+50.00 RT
NEW 6" X 16' UNDERDRAIN CARRIER PIPE

605.10 6 INCH UNDERDRAIN PIPE

① STA 304+21.22 LT - 301+02.39 LT
NEW 6" X 319' UNDERDRAIN PIPE

② STA 304+22.00 RT - 301+02.23 RT
NEW 6" X 318' UNDERDRAIN PIPE

③ STA 110+12.50 LT - 108+44.16 LT
NEW 6" X 168' UNDERDRAIN PIPE

④ STA 110+12.50 RT - 108+55.00 RT
NEW 6" X 158' UNDERDRAIN PIPE

⑤ STA 107+19.34 LT - 105+06.55 LT
NEW 6" X 215' UNDERDRAIN PIPE

⑥ STA 104+94.17 LT - 103+49.59 LT
NEW 6" X 145' UNDERDRAIN PIPE

⑦ STA 108+20.00 RT - 103+25.13 RT
NEW 6" X 500' UNDERDRAIN PIPE
W/FLUSHING BASIN @ 108+20.00 RT
FLUSHING BASIN @ 105+80.00 RT

900.640 SPECIAL PROVISION
(6 INCH UNDERDRAIN PIPE, DRY SWALE)
STA 104+30.00 RT - 103+50.00 RT
NEW STORMWATER TREATMENT PRACTICE
DISCHARGE PERMIT #6019-INDS
NEW 6" X 81' UNDERDRAIN PIPE
W/FLUSHING BASIN @ STA 104+30.00 RT

EXISTING DRAINAGE

3 STA 108+17.21 LT - 108+15.59 RT
EXISTING 18" X 33' CGMP &
HEADWALLS (2) = REMOVE

5 STA 301+00.76 LT - 300+59.56 RT
EXISTING 15" X 51' CPEP & CONCRETE
DI = REMOVE

0 20 40
SCALE IN FEET

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PROJECT NAME:	MILTON		
PROJECT NUMBER:	STP 5800 (2)		
FILE NAME: t92d289bdr.dgn		PLOT DATE:	23-FEB-2011
PROJECT LEADER:	J. SCHULTZ	DRAWN BY:	D. LYMAN
DESIGNED BY:	D. LYMAN	CHECKED BY:	J. DEVLIN
DRAINAGE LAYOUT 2		SHEET 31	OF 104

605.10 6 INCH UNDERDRAIN PIPE

3 STA 110+12.50 LT - 108+44.16 LT
NEW 6" X 168' UNDERDRAIN PIPE
W/FLUSHING BASIN @ STA 110+12.50 LT

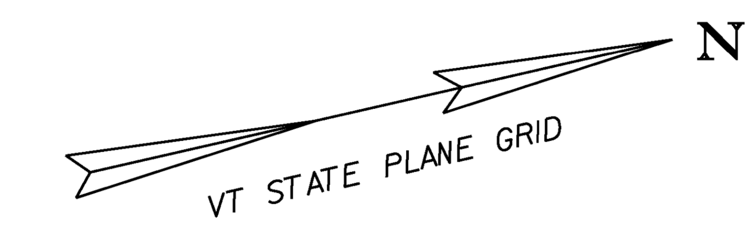
4 ~~STA 110+12.50 RT~~ - 108+55.00 RT
NEW 6" X 158' UNDERDRAIN PIPE
W/FLUSHING BASIN @ ~~STA 110+12.50 RT~~

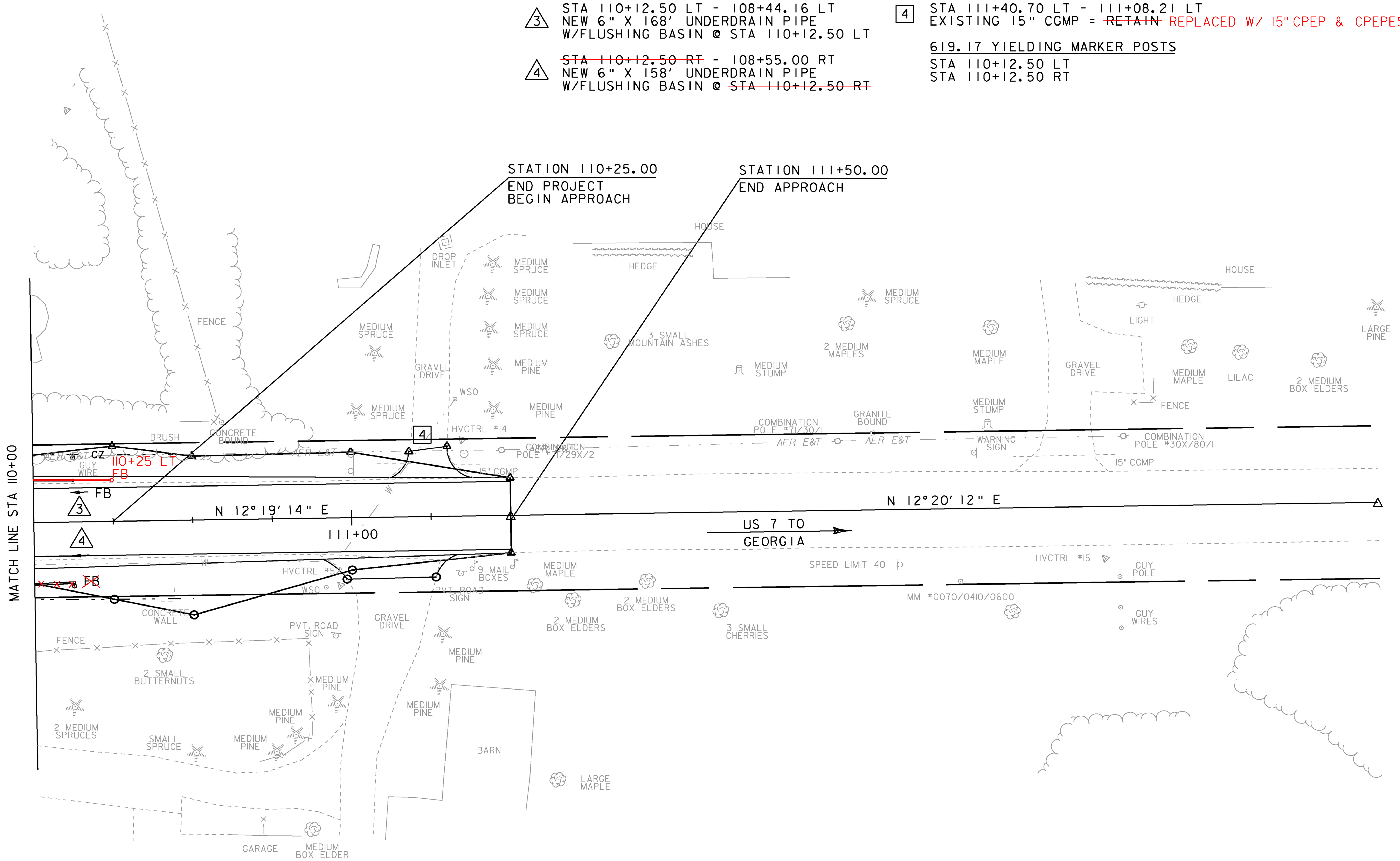
EXISTING DRAINAGE

4 STA 111+40.70 LT - 111+08.21 LT
EXISTING 15" CGMP = ~~RETAIN~~ REPLACED W/ 15" CPEP & CPEPES (2)

619.17 YIELDING MARKER POSTS

STA 110+12.50 LT
STA 110+12.50 RT





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SCALE IN FEET

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PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92d289bdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
DRAINAGE LAYOUT 3	SHEET 32 OF 104

NEW DRAINAGE

(1) STA 304+~~25.00~~ 95.00 LT - 303+17.00 LT
NEW 18" X 108' RCP/CPEP (SL)
W/4' PRCCB @ STA 304+25.00 LT
OFFSET = 13.00' W/GRATE TYPE D (I)

(2) STA 304+25.00 RT - 303+17.00 RT
NEW 18" X 108' RCP/CPEP (SL)
W/4' PRCCB @ STA 304+25.00 RT
OFFSET = 13.00' W/GRATE TYPE D (I)

(3) STA 303+~~17.00~~ 55.00 LT - 302+00.00 LT
NEW 18" X 117' RCP/CPEP (SL)
W/4' PRCCB @ STA 303+17.00 LT
OFFSET = 12.61' W/GRATE TYPE D (I)

(4) STA 303+17.00 RT - 302+00.00 RT
NEW 18" X 117' RCP/CPEP (SL)
W/4' PRCCB @ STA 303+17.00 RT
OFFSET = 12.84' W/GRATE TYPE D (I)

605.10 6 INCH UNDERDRAIN PIPE

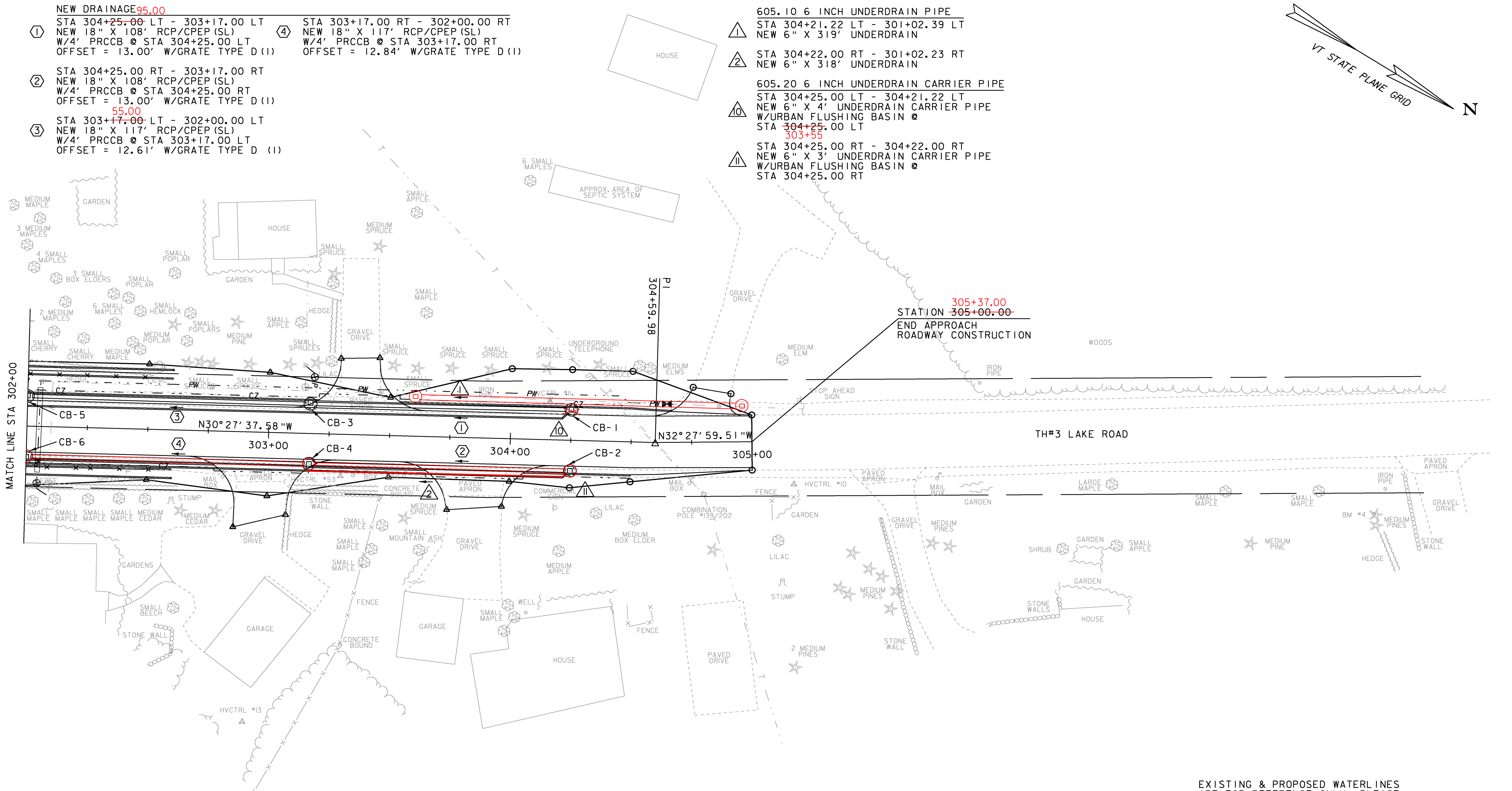
(1) STA 304+21.22 LT - 301+02.39 LT
NEW 6" X 319' UNDERDRAIN

(2) STA 304+22.00 RT - 301+02.23 RT
NEW 6" X 318' UNDERDRAIN

605.20 6 INCH UNDERDRAIN CARRIER PIPE

(10) STA 304+25.00 LT - 304+21.22 LT
NEW 6" X 4' UNDERDRAIN CARRIER PIPE
W/URBAN FLUSHING BASIN @
STA ~~304+25~~.00 LT 303+55

(11) STA 304+25.00 RT - 304+22.00 RT
NEW 6" X 3' UNDERDRAIN CARRIER PIPE
W/URBAN FLUSHING BASIN @
STA 304+25.00 RT



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0 20 40
SCALE IN FEET

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PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92d289bdr.dgn	PLOT DATE: 23-FEB-2011
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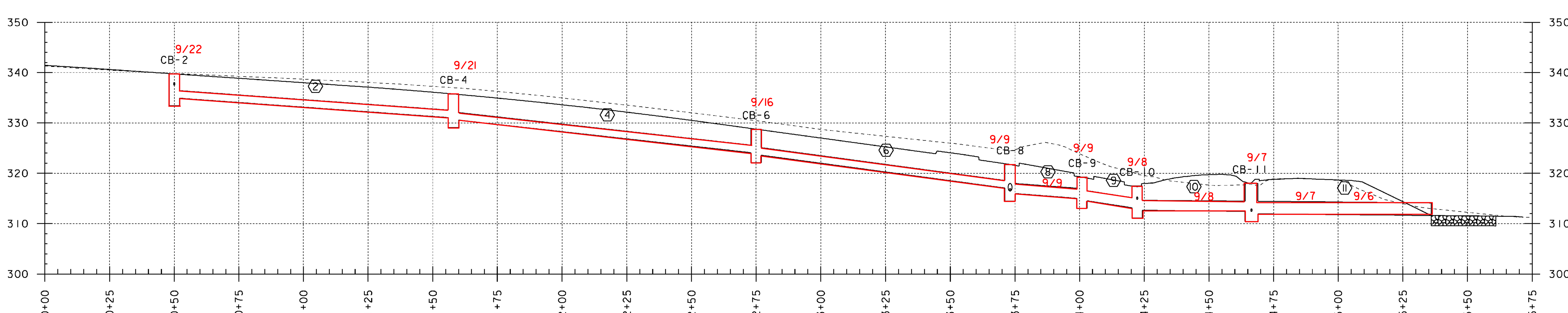
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
DRAINAGE LAYOUT 4	SHEET 33 OF 104



CB-2
GRATE TYPE D(1)
STA 304+25.00 RT
OFFSET = 13.00'
RIM ELEV= 339.73'
DIAMETER= 4.00'
DEPTH = 6.33'
SUMP = 1.50'

CB-4
GRATE TYPE D(1)
STA 303+17.00 RT
OFFSET = 12.84'
RIM ELEV= 335.73'
DIAMETER= 4.00'
DEPTH = 6.68'
SUMP = 1.50'

CB-6
GRATE TYPE D(1)
STA 302+00.00 RT
OFFSET = 12.80'
RIM ELEV= 328.75'
DIAMETER= 4.00'
DEPTH = 6.67'
SUMP = 1.50'

CB-8
GRATE TYPE D(1)
STA 301+00.00 RT
OFFSET = 13.17'
RIM ELEV= ~~321.73~~' 321.60'
DIAMETER= 4.00'
DEPTH = 7.26'
SUMP = 1.50'

CB-9
GRATE TYPE D(1)
STA 300+70.00 RT
OFFSET = 22.60'
RIM ELEV= ~~319.23~~' 319.15'
DIAMETER= 4.00'
DEPTH = 6.21'
SUMP = 1.50'

CB-10
GRATE TYPE D(1)
STA 300+50.00 RT
OFFSET = 36.87'
RIM ELEV= ~~317.45~~' 317.57'
DIAMETER= 4.00'
DEPTH = 6.31'
SUMP = 1.50'

CB-11
GRATE TYPE D(1)
STA 108+40.00 LT
OFFSET = 20.64'
RIM ELEV= 318.00'
DIAMETER= 5.00'
DEPTH = 7.56'
SUMP = 1.50'

2
STA 304+25.00 RT-
STA 303+17.00 RT
SLOPE= 3.70%
NEW PIPE
TYPE: OPTION PIPE
LENGTH= 108'
DIAMETER= 18.00"
INV IN= 334.90'
INV OUT=331.05'

4
STA 303+17.00 RT-
STA 302+00.00 RT
SLOPE= 5.~~73~~%
75
NEW PIPE
TYPE: OPTION PIPE
LENGTH= ~~117~~' 116'
DIAMETER= 18.00"
INV IN= ~~330.55~~' 330.40'
INV OUT=~~324.08~~' 323.73'

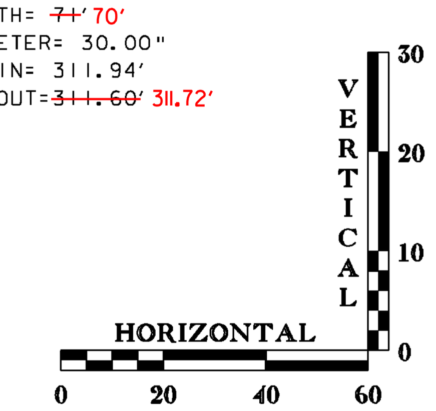
6
STA 302+00.00 RT-
STA 301+00.00 RT
SLOPE= 6.93%
NEW PIPE
TYPE: OPTION PIPE
LENGTH= ~~98~~' 96'
DIAMETER= 18.00"
INV IN= ~~323.58~~' 323.28'
INV OUT=~~317.06~~' 316.93'

8
STA 301+00.00 RT-
STA 300+70.00 RT
SLOPE= 3.97%
NEW PIPE
TYPE: OPTION PIPE
LENGTH= ~~28~~' 25.5'
DIAMETER= 24.00"
INV IN= 315.97'
~~INV OUT=315.02~~' 314.77'

9
STA 300+70.00 RT-
STA 300+50.00 RT
SLOPE= 7.96%
NEW PIPE
TYPE: OPTION PIPE
LENGTH= ~~21~~' 20.33'
DIAMETER= 24.00"
INV IN= ~~314.52~~' 314.39'
~~INV OUT=313.14~~' 312.64'

10
STA 300+50.00 RT-
STA 108+40.00 LT
SLOPE= 0.51%
NEW PIPE
TYPE: OPTION PIPE
LENGTH= ~~44~~' 33.5'
DIAMETER= 24.00"
INV IN= ~~312.64~~' 312.33'
INV OUT=~~312.44~~' 312.36'

11
STA 108+40.00 LT-
STA 108+40.00 RT
SLOPE= 0.50%
NEW PIPE
TYPE: OPTION PIPE
LENGTH= ~~71~~' 70'
DIAMETER= 30.00"
INV IN= 311.94'
INV OUT=~~311.60~~' 311.72'

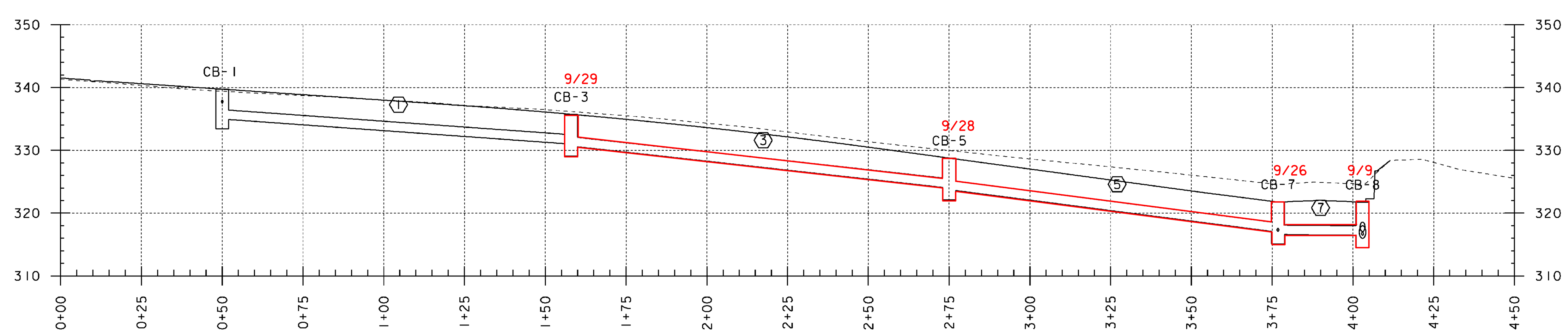


DATUM
VERTICAL NAVD 1988
HORIZONTAL NAD83 (96)

PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)

FILE NAME: t92d289drn.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: D. LYMAN
DRAINAGE PROFILE SHEET 1

PLOT DATE: 23-FEB-2011
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 34 OF 104



CB-1
GRATE TYPE D(I)
STA ~~304+25.00~~ LT 304+95 LT
OFFSET = 13.00'
RIM ELEV=~~339.73~~' 341.35'
DIAMETER= 4.00'
DEPTH = 6.33'
SUMP = 1.50'

CB-3
GRATE TYPE D(I)
STA 303+17.00 LT
OFFSET = 12.61'
RIM ELEV=335.72'
DIAMETER= 4.00'
DEPTH = 6.67'
SUMP = 1.50'

CB-5
GRATE TYPE D(I)
STA 302+00.00 LT
OFFSET = 12.83'
RIM ELEV=328.75'
DIAMETER= 4.00'
DEPTH = 6.67'
SUMP = 1.50'

CB-7
GRATE TYPE D(I)
STA 301+00.00 LT
OFFSET = 13.00'
RIM ELEV=~~321.75~~' 321.68'
DIAMETER= 4.00'
DEPTH = 6.67'
SUMP = 1.50'

CB-8
GRATE TYPE D(I)
STA 301+00.00 RT
OFFSET = 13.17'
RIM ELEV=~~321.73~~' 321.60'
DIAMETER= 4.00'
DEPTH = 7.26'
SUMP = 1.50'

1
STA 304+25.00 LT-
STA 303+17.00 LT
SLOPE= 3.70%
NEW PIPE
TYPE: OPTION PIPE
LENGTH= 108'
DIAMETER= 18.00"
INV IN= ~~334.90~~' 337.59'
INV OUT=~~331.05~~' 332.78'

3
STA 303+17.00 LT-
STA 302+00.00 LT
SLOPE= 5.73%
NEW PIPE
TYPE: OPTION PIPE
LENGTH= 117'
DIAMETER= 18.00"
INV IN= ~~330.55~~' 332.14'
INV OUT=~~324.08~~' 323.66'

5
STA 302+00.00 LT-
STA 301+00.00 LT
SLOPE= 6.65%
NEW PIPE
TYPE: OPTION PIPE
LENGTH= ~~102~~' 100'
DIAMETER= 18.00"
INV IN= ~~323.58~~' 323.12'
INV OUT=317.08'

7
STA 301+00.00 LT-
STA 301+00.00 RT
SLOPE= 0.50%
NEW PIPE
TYPE: OPTION PIPE
LENGTH= ~~26~~' 22'
DIAMETER= 18.00"
INV IN= ~~316.58~~' 316.59'
INV OUT=~~316.47~~' 316.48'

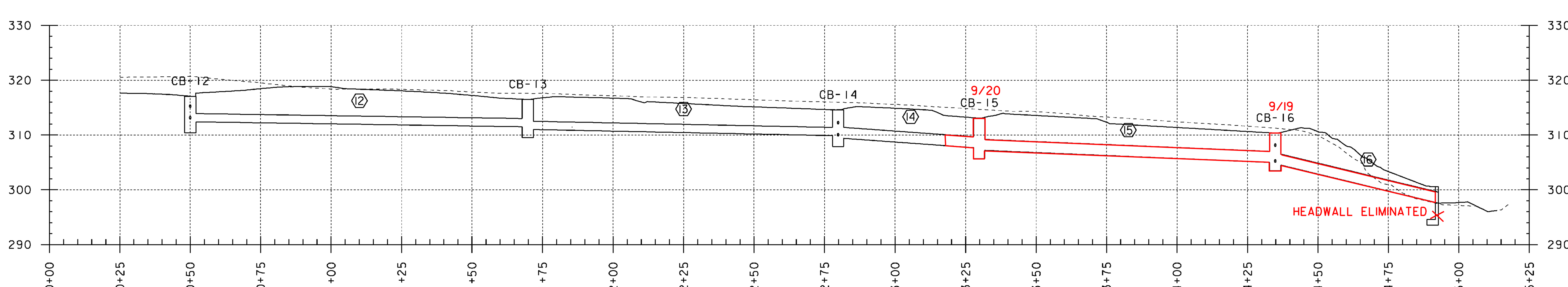
VERTICAL 0 10 20 30
HORIZONTAL 0 20 40 60
SCALE IN FEET

DATUM
VERTICAL NAVD 1988
HORIZONTAL NAD83 (96)

PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)

FILE NAME: t92d289drn.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: D. LYMAN
DRAINAGE PROFILE SHEET 2

PLOT DATE: 23-FEB-2011
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN



CB-12
GRATE TYPE D(1)
STA 107+29.41 LT
OFFSET = 35.36'
RIM ELEV= ~~317.07'~~ 317.42'
DIAMETER= 4.00'
DEPTH = 6.17'
SUMP = 1.50'

12
STA 107+29.41 LT-
STA ~~106+10.00~~ LT 106+00 LT
SLOPE =0.78%
NEW PIPE
TYPE: OPTION PIPE
LENGTH =120'
DIAMETER =18.00"
INV IN= ~~312.40'~~ 312.38'
INV OUT= ~~311.50'~~ 311.15'

CB-13
GRATE TYPE A(1)
STA 106+10.00 LT
OFFSET = 26.08'
RIM ELEV=316.50'
DIAMETER= 4.00'
DEPTH = 7.00'
SUMP = 1.50'

13
STA 106+10.00 LT-
STA 105+00.00 LT
SLOPE =1.06%
NEW PIPE
TYPE: OPTION PIPE
LENGTH = ~~110'~~ 97'
DIAMETER =18.00"
INV IN= ~~311.00'~~ 310.65'
INV OUT= ~~309.88'~~ 309.53'

CB-14
GRATE TYPE A(1)
STA 105+00.00 LT
OFFSET = 23.00'
RIM ELEV= ~~314.58'~~ 314.49'
DIAMETER= 4.00'
DEPTH = 6.70'
SUMP = 1.50'

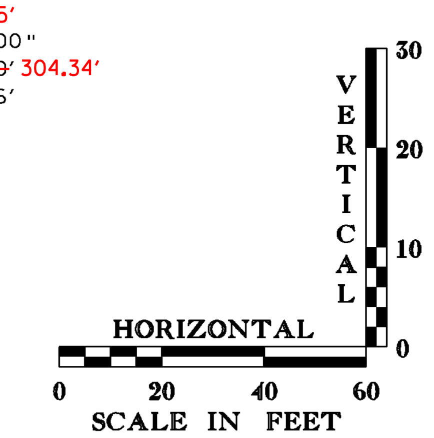
14
STA 105+00.00 LT-
STA 104+50.00 LT
SLOPE =3.69%
NEW PIPE
TYPE: OPTION PIPE
LENGTH =50'
DIAMETER =24.00"
INV IN= ~~309.38'~~ 309.07'
INV OUT= ~~307.68'~~ 307.28'

CB-15
GRATE TYPE A(1)
STA 104+50.00 LT
OFFSET = 24.07'
RIM ELEV=313.10'
DIAMETER= 4.00'
DEPTH = 7.42'
SUMP = 1.50'

15
STA 104+50.00 LT-
STA 103+45.00 LT
SLOPE =2.16%
NEW PIPE
TYPE: OPTION PIPE
LENGTH = ~~105'~~ 111'
DIAMETER =24.00"
INV IN= ~~307.18'~~ 307.10'
INV OUT= ~~305.00'~~ 304.84'

CB-16
GRATE TYPE A(1)
STA ~~103+45.00~~ LT 103+30 LT
OFFSET = 23.00'
RIM ELEV=310.37'
DIAMETER= 4.00'
DEPTH = 7.37'
SUMP = 1.50'

16
STA 103+45.00 LT-
STA 102+97.60 LT
SLOPE =12.42%
NEW PIPE
TYPE: OPTION PIPE
LENGTH = ~~58'~~ 49.5'
DIAMETER =24.00"
INV IN= ~~304.50'~~ 304.34'
INV OUT=297.56'

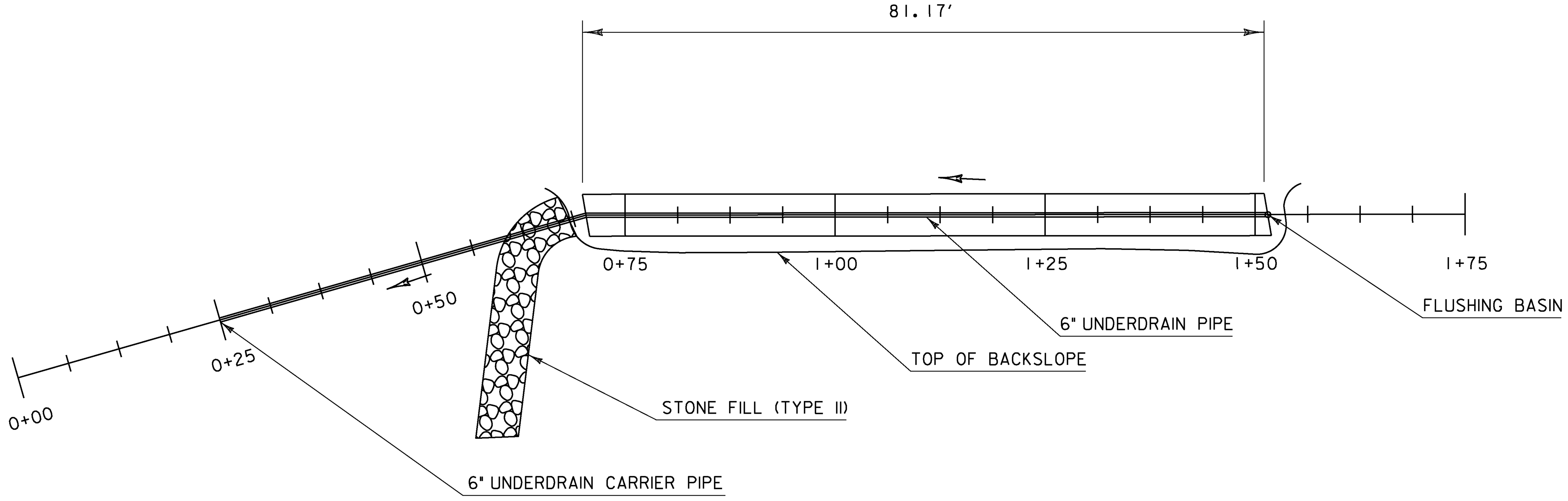


DATUM
VERTICAL NAVD 1988
HORIZONTAL NAD83 (96)

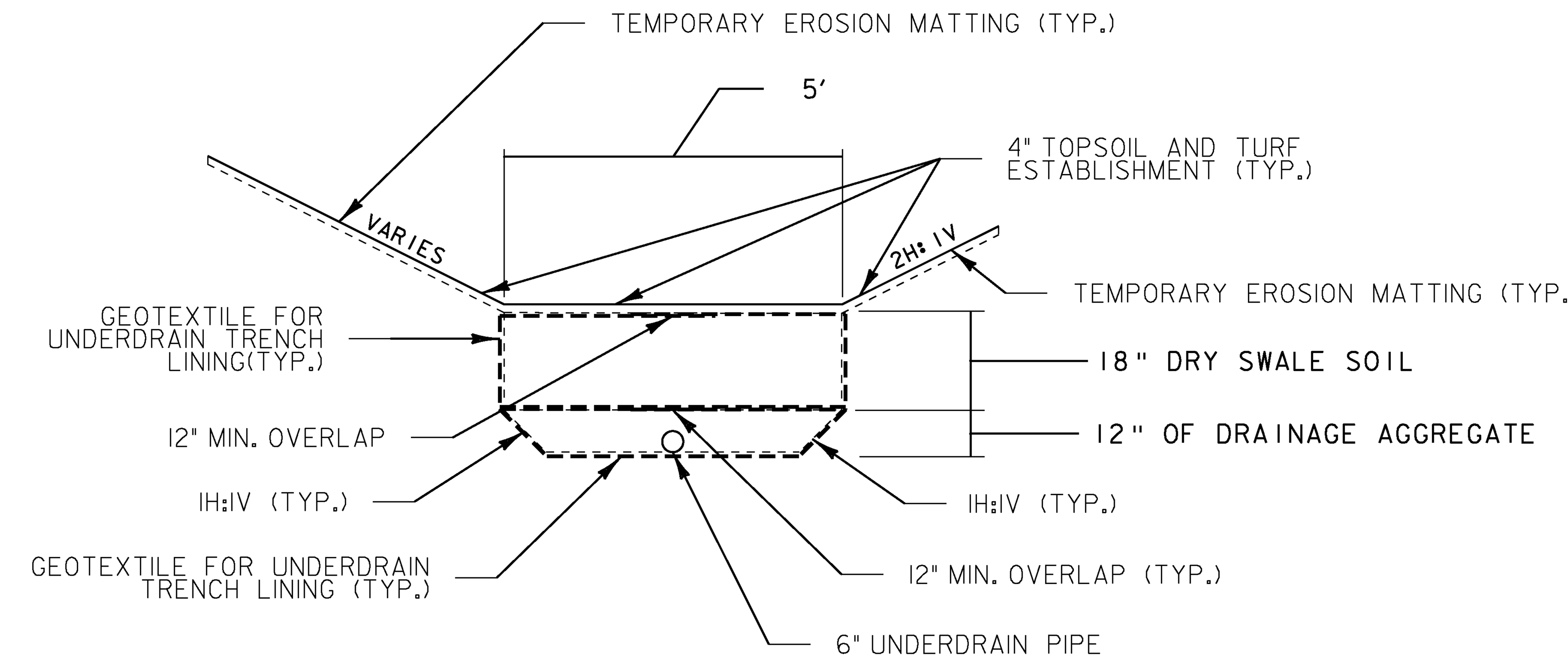
PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)

FILE NAME: t92d289drn.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: D. LYMAN
DRAINAGE PROFILE SHEET 3

PLOT DATE: 23-FEB-2011
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN



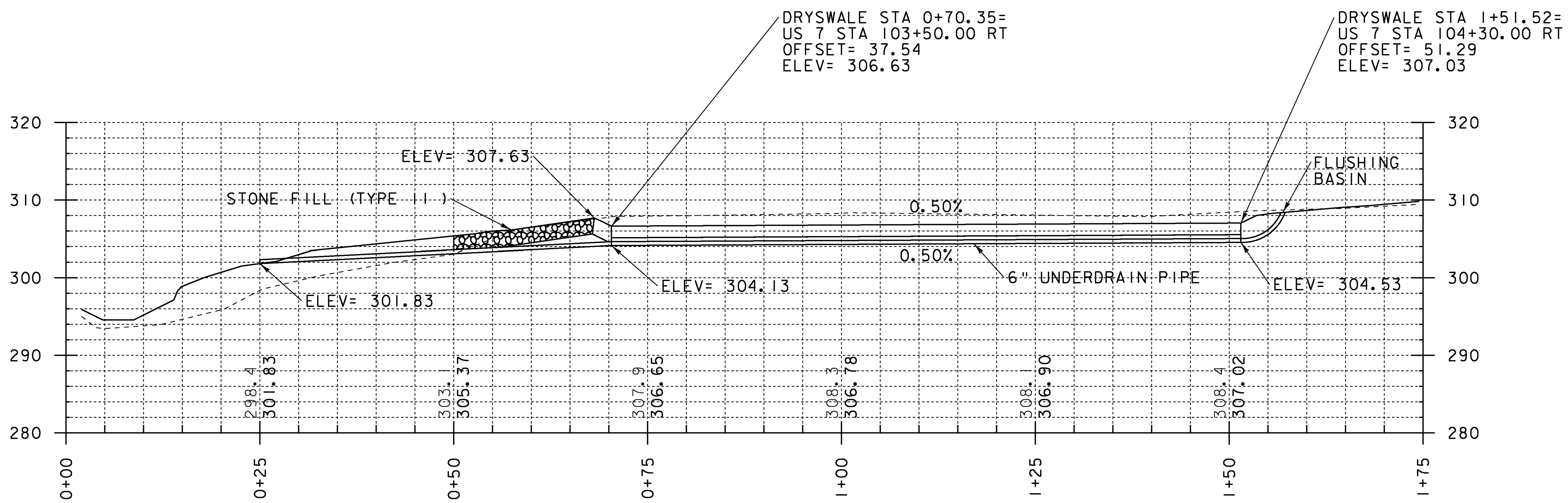
900.640 SPECIAL PROVISION
(6" UNDERDRAIN PIPE, DRY SWALE)
PLAN



900.640 SPECIAL PROVISION
(6" UNDERDRAIN PIPE, DRY SWALE)

US ROUTE 7

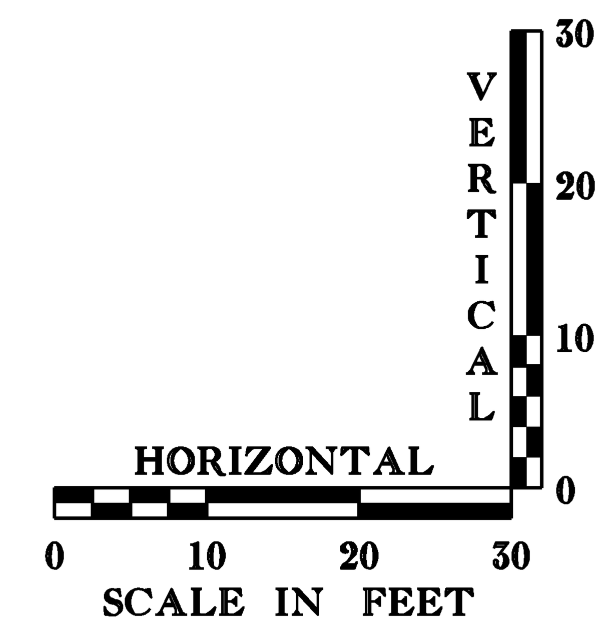
104+30.00 RT - 103+50.00 RT
NOT TO SCALE



900.640 SPECIAL PROVISION
(6" UNDERDRAIN PIPE, DRY SWALE)
PROFILE

DRY SWALE NOTES

1. THE CONTRACTOR SHALL WRAP GEOTEXTILE FOR UNDERDRAIN TRENCH LINING AROUND THE DRY SWALE SOIL AND DRAINAGE AGGREGATE SEPARATELY WITH A MINIMUM OF 12" OVERLAP AT ENDS.
2. THE CONTRACTOR SHALL PLACE TEMPORARY EROSION MATTING WITH GRASS AND SEED OVER THE DRY SWALE SOIL.



PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92d289typ.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
STORMWATER TREATMENT DETAIL SHEET	SHEET 37 OF 104

EROSION CONTROL NARRATIVE

1.1 PROJECT DESCRIPTION

THE PROJECT IS LOCATED AT THE INTERSECTION OF US ROUTE 7 AND TOWN HIGHWAY #3 (LAKE ROAD). WORK TO BE PERFORMED INCLUDES HORIZONTAL AND VERTICAL ALIGNMENT IMPROVEMENTS, CONSTRUCTION OF A US ROUTE 7 NORTHBOUND LEFT TURN LANE, FULL DEPTH ROADWAY RECONSTRUCTION, AND DRAINAGE IMPROVEMENTS.

NOTE: AREA OF DISTURBANCE SHALL INCLUDE LIMITS OF EARTH DISTURBANCE WITHIN THE PROJECT AREA, INCLUDING ANY WASTE, STAGING AND BORROW AREAS WITHIN OR DIRECTLY ADJACENT TO THE PROJECT LIMITS.

TOTAL AREA OF DISTURBANCE IS APPROXIMATELY 3.07 ACRES.

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

1.2 SITE INVENTORY

1.2.1 TOPOGRAPHY

THE PROPERTY SURROUNDING THE PROJECT SITE CONSISTS OF A BALANCE BETWEEN WELL ESTABLISHED WOODED AREAS AS WELL AS RESIDENTIAL DEVELOPMENT. THESE RESIDENTIAL LOTS HAVE WELL ESTABLISHED LAWNS AND SCATTERED LANDSCAPING FEATURES. THE PROJECT SITE WILL RECEIVE RUNOFF FROM AREAS WEST OF US ROUTE 7. AREAS EAST OF US ROUTE 7 WILL PRIMARILY DRAIN AWAY FROM THE PROJECT SITE. ALL RUNOFF FROM THESE OFF-SITE AREAS HAVE BEEN CONSIDERED IN DRAINAGE DESIGN CALCULATIONS.

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

AT THE SOUTHERN END OF THE PROJECT, US ROUTE 7 RUNS PARALLEL AND IN CLOSE PROXIMITY TO ARROWHEAD MOUNTAIN LAKE. AN UNNAMED TRIBUTARY OF ARROWHEAD MOUNTAIN LAKE IS THE ONLY OTHER WATER SOURCE ON THE PROJECT SITE. THE UNNAMED TRIBUTARY CROSSING IS LOCATED APPROXIMATELY 186 FEET NORTH OF THE BEGIN PROJECT STATION. THE TRIBUTARY DRAINAGE AREA AT THE CULVERT CROSSING IS APPROXIMATELY 38 ACRES. ALONG LAKE ROAD AND A PORTION OF US ROUTE 7 THERE ARE MULTIPLE DROP INLETS PROPOSED THAT WILL SERVE TO COLLECT THE ROADWAY AND LIMITED OFFSITE RUNOFF AND ULTIMATELY CONVEY THIS WATER TO ARROWHEAD MOUNTAIN LAKE.

1.2.3 VEGETATION

THE VEGETATION IN THE PROJECT AREA CONSISTS OF WOODS, BRUSH, AND GRASSED AREAS. THE IMPACT TO VEGETATION WILL BE LIMITED TO THAT WHICH IS DIRECTLY AFFECTED BY THE ROADWAY CONSTRUCTION ACTIVITIES. DISTURBED VEGETATION WILL BE REESTABLISHED WITH STANDARD SEED AND MULCH PRACTICES.

1.2.4 SOILS

ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTY OF CHITTENDEN, VERMONT. SOILS ON THE PROJECT SITE ARE ADAMS AND WINDSOR LOAMY SANDS, 0% TO 5% SLOPES AND 12% TO 30% SLOPES, "K FACTOR" = 0.17. THE SOIL IS CONSIDERED TO HAVE LOW EROSION POTENTIAL.
NOTE: K-VALUES GENERALLY INDICATE THEFOLLOWING: 0.0-0.23 = LOW EROSION POTENTIAL; 0.24-0.36 = MODERATE EROSION POTENTIAL: 0.37 AND HIGHER = HIGH EROSION POTENTIAL.

1.2.5 SENSITIVE RESOURCE AREAS

CRITICAL HABITATS: NO
HISTORICAL OR ARCHEOLOGICAL AREAS: NO
PRIME AGRICULTURAL LAND: NO
THREATENED AND ENDANGERED SPECIES: NO
WATER RESOURCE: ARROWHEAD MOUNTAIN LAKE, UNNAMED TRIBUTARY
WETLANDS: NO

1.3 RISK EVALUATION

THIS PROJECT FALLS UNDER THE JURISDICTION OF GENERAL PERMIT 3-9020 FOR STORMWATER RUNOFF FROM CONSTRUCTION SITES FOR LOW RISK PROJECTS. ANY MODIFICATIONS TO THE PROJECT THAT INCREASE THE RISK TO ENVIRONMENTAL RESOURCES SHALL BE EVALUATED IN ACCORDANCE WITH THE PERMIT REQUIREMENTS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ADDITIONAL PERMITTING.

1.4 EROSION PREVENTION AND SEDIMENT CONTROL

THE EROSION CONTROL PLANS ARE MEANT AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. THE PRINCIPLES OUTLINED IN THIS NARRATIVE CONSIST OF APPLYING MEASURES THROUGHOUT CONSTRUCTION OF THE PROJECT IN ORDER TO MINIMIZE SEDIMENT TRANSPORT TO THE RECEIVING WATERS. THE MEASURES INCLUDE STABILIZATION AND STRUCTURAL PRACTICES, STORM WATER CONTROLS AND OTHER POLLUTION PREVENTION PRACTICES. THEY HAVE BEEN PROPOSED BY THE DESIGNER AS A BASIS FOR PROTECTING RESOURCES AND WILL NEED TO BE BUILT UPON BASED ON THE SPECIFC MEANS AND METHODS OF THE CONTRACTOR. REFER TO THE LOW RISK SITE HANDBOOK AND APPROPRIATE DETAIL SHEETS FOR SPECIFIC GUIDANCE AND CONSTRUCTION DETAILING.

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

1.4.1 MARK SITE BOUNDARIES
SITE BOUNDARIES AND AREAS CONSTRUCTION EQUIPMENT CAN ACCESS SHALL BE DELINEATED.

PROJECT DEMARCATION FENCING, DENOTED -PDF- ON THE PLANS IS USED TO DELINEATE THE LIMITS THE CONTRACTOR CAN ACCESS WITH CONSTRUCTION. THIS PROJECT FALLS UNDER THE CGP 3-9020, THEREFORE BARRIER FENCE DENOTED –BF- SHALL BE USED INSTEAD OF PROJECT DEMARCATION FENCE WITHIN 100 FEET OF A WATER RESOURCE. THIS MEASURE LIMITS THE AREA THAT CAN BE DISTURBED AND EXPOSED TO EROSION.

1.4.2 LIMIT DISTURBANCE AREA
PREVENTING INITIAL SOIL EROSION BY MINIMIZING THE EXPOSED AREA IS MUCH MORE EFFECTIVE THAN TREATING ERODED SEDIMENT. EARTH DISTURBANCE CAN BE MINIMIZED THROUGH CONSTRUCTION PHASING BY ONLY OPENING UP EARTH AS NECESSARY. THIS CAN LIMIT THE AREA THAT WILL BE DISTURBED AND EXPOSED TO EROSION. EMPLOY TEMPORARY CONSTRUCTION STABILIZATION PRACTICES IN INCREMENTAL STAGES AS PHASES CHANGE. FOR PROJECTS WHICH FALL UNDER THE CONSTRUCTION GENERAL PERMIT, EARTH DISTURBANCE AT ANY ONE TIME SHALL BE LIMITED TO 2 ACRES.

MAINTAINING VEGETATED BUFFERS ALONG STREAM BANKS, WETLANDS OR OTHER SENSITIVE AREAS IS A CRUCIAL EROSION AND SEDIMENT CONTROL MEASURE THAT SHOULD BE ESTABLISHED WHEREVER POSSIBLE. DISTURBANCE IN THE VICINITY OF ARROWHEAD MOUNTAIN LAKE AND THE UNAMED TRIBUTARY SHALL BE MINIMIZED.

1.4.3 SITE ENTRANCE/EXIT STABILIZATION
TRACKING OF SEDIMENT ONTO PUBLIC HIGHWAYS SHALL BE MNIMIZED TO REDUCE THE POTENTIAL FOR RUNOFF ENTERING RECEIVING WATERS. INSTALLATION SHALL COINCIDE WITH THE CONTRACTORS PROGRESS SCHEDULE.

STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS REQUIRED BY THE RESIDENT ENGINEER AND SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

1.4.4 INSTALL SEDIMENT BARRIERS
SEDIMENT BARRIERS SHALL BE UTILIZED TO INTERCEPT RUNOFF AND ALLOW SUSPENDED SEDIMENT TO SETTLE OUT. THEY SHALL BE INSTALLED PRIOR TO ANY UP SLOPE WORK.

SILT FENCE WILL BE INSTALLED AS PROPOSED ON THE EPSC PLAN. BECAUSE THIS PROJECT FALLS UNDER THE CGP 3-9020, WOVEN WIRE REINFORCED SILT FENCE SHALL BE USED INSTEAD OF SILT FENCE WITHIN 100 FEET UPSLOPE OF RECEIVING WATERS.

1.4.5 DIVERT UPLAND RUNOFF
DIVERSIONARY MEASURES SHALL BE USED TO INTERCEPT RUNOFF FROM ABOVE THE CONSTRUCTION AND DIRECT IT AROUND THE DISTURBED AREA SO THAT CLEAN WATER DOES NOT BECOME MUDDIED WHILE TRAVELING OVER EXPOSED SOILS ON THE CONSTRUCITON SITE.

EXISTING SWALES SHALL BE UTILIZED TO DIVERT PORTIONS OF THE OFF-SITE RUNOFF PRIOR TO REACHING THE PROJECT SITE.

1.4.6 SLOW DOWN CHANNELIZED RUNOFF
CHECK STRUCTURES SHALL BE UTILIZED TO REDUCE THE VELOCITY, AND THUS THE EROSIVE POTENTIAL, OF CONCENTRATED FLOW IN CHANNELS.

CHECK DAM STRUCTURES ARE NOT ANTICIPATED FOR THIS PROJECT.

1.4.7 CONSTRUCT PERMANENT CONTROLS
PERMANENT STORMWATER TREATMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH PERMIT CONDITIONS.

TYPE II STONE FOR SLOPE LINING AND CHANNEL PROTECTION
SEED AND MULCH
DRAINAGE INLETS AND PIPING

1.4.8 STABILIZE EXPOSED SOILS DURING CONSTRUCTION
ALL AREAS OF DISTURBANCE MUST HAVE TEMPORARY STABILIZATION IN PLACE WITHIN 48 HOURS OF DISTURBANCE OR IN ACCORDANCE WITH THE CONSTRUCTION GENERAL PERMIT 3-9020 AUTHORIZATION.

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

THE FORECAST OF RAINFALL EVENTS SHALL TRIGGER IMMEDIATE PROTECTION OF EXPOSED SOILS.

1.4.9 WINTER STABILIZATION
VARIOUS MEASURES SPECIFIC TO WINTER MAY BE NECESSARY SHOULD THE PROJECT EXTEND INTO WINTER (OCTOBER 15 THROUGH APRIL 15). REFER TO THE LOW RISK SITE HANDBOOK FOR GUIDANCE.

1.4.10 STABILIZE SOIL AT FINAL GRADE
EXPOSED SOIL MUST BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE.

SEED, MULCH, FERTILIZER AND LIME SHALL BE USED TO ESTABLISH PERMANENT VEGETATION. FOR SLOPES STEEPER THAN 1:3, BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED INSTEAD OF MULCH.

1.4.11 DE-WATERING ACTIVITIES
DISCHARGE FROM DEWATERING ACTIVITIES THAT FLOWS OFF OF THE CONSTRUCTION SITE MUST NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE VERMONT WATER QUALITY STANDARDS.

BASED ON CONTRACTOS'S PHASING, DEWATERING ASSOCIATED WITH THE CULVERT REPLACEMENT AT APPROXIMATE STATION 102+87 MAY BE REQUIRED.

1.4.12 INSPECT YOUR SITE
INSPECT THE PROJECT SITE BASED ON SPECIAL PROVISION REQUIREMENTS OR CONSTRUCTION GENERAL PERMIT AUTHORIZATION STIPULATIONS.

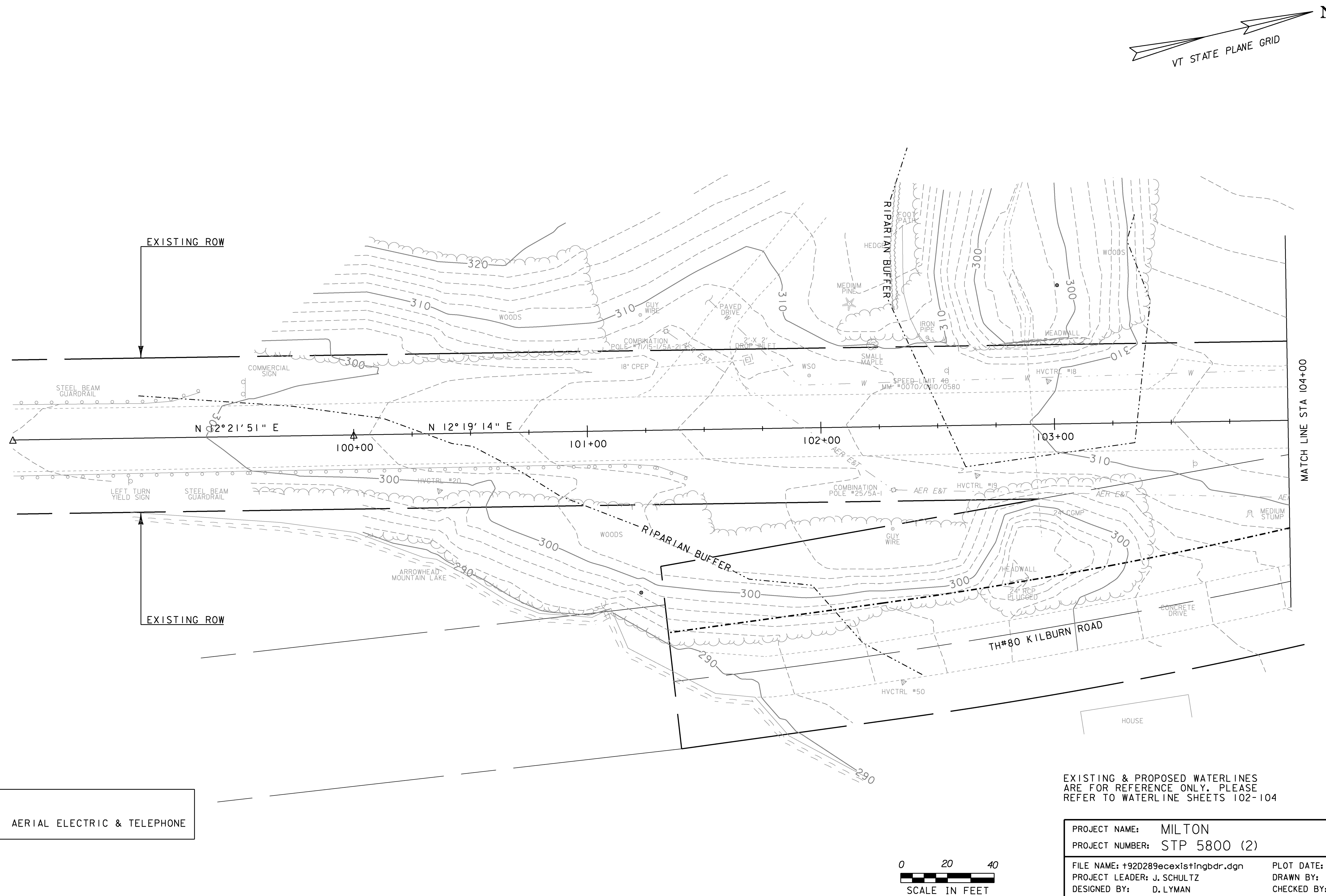
1.5 SEQUENCE AND STAGING

THIS SECTION WILL BE DEVELOPED BY THE CONTRACTOR USING THE GUIDANCE OUTLINED IN THE VTRANS EPSC PLAN CONTRACTOR CHECKLIST.

1.5.1 CONSTRUCTION SEQUENCE

1.5.2 OFF-SITE ACTIVITIES
IN ADDITION TO THE CONTRACTOR CHECKLIST ANY ACTIVITIES OUTSIDE THE CONSTRUCTION LIMITS SHALL FOLLOW SUBSECTIONS 105.25- 105.29 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

1.5.3 UPDATES

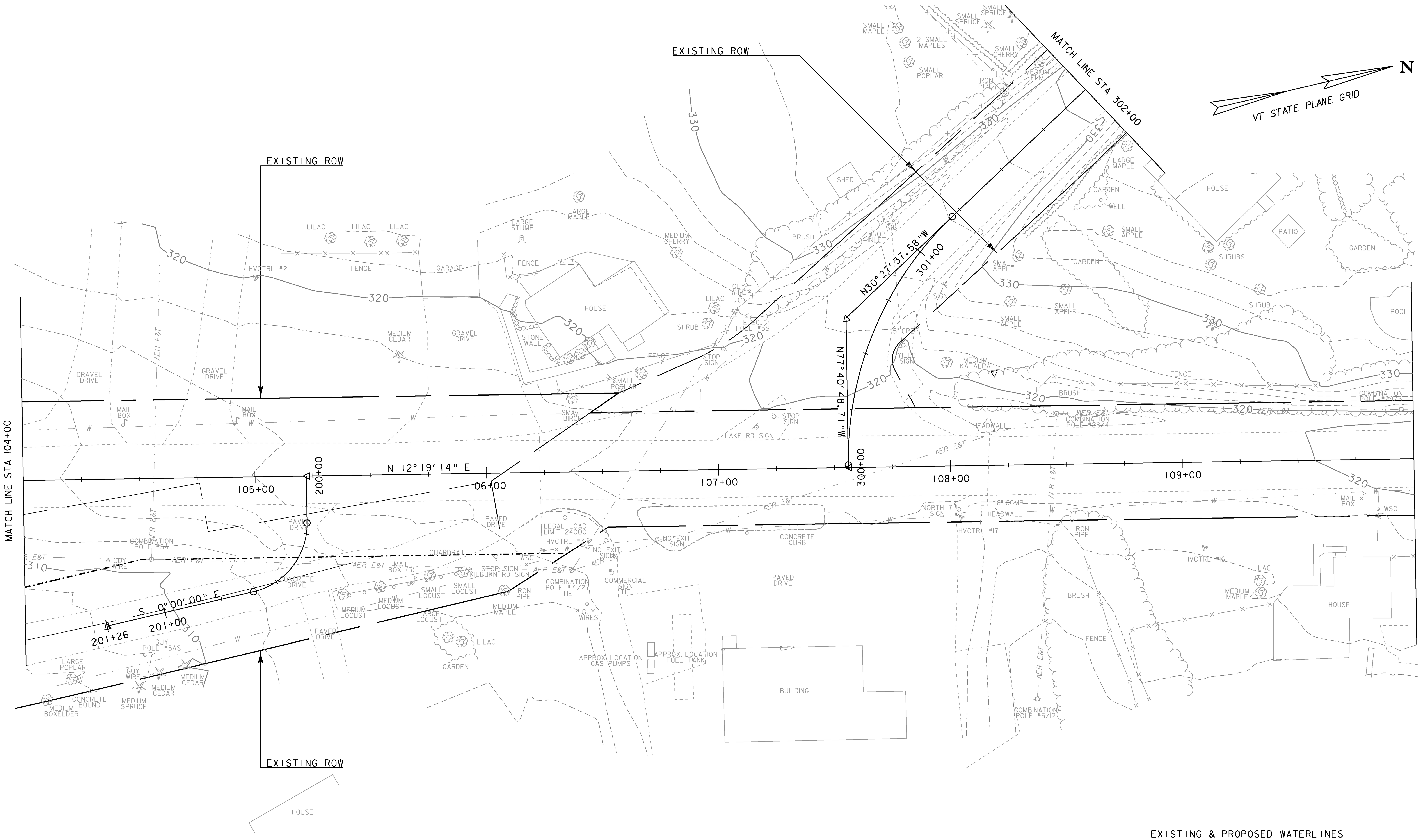


LEGEND

— *AER E&T* — AERIAL ELECTRIC & TELEPHONE

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289ecexistingbdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
EPSC EXISTING CONDITIONS SHEET 1	SHEET 39 OF 104



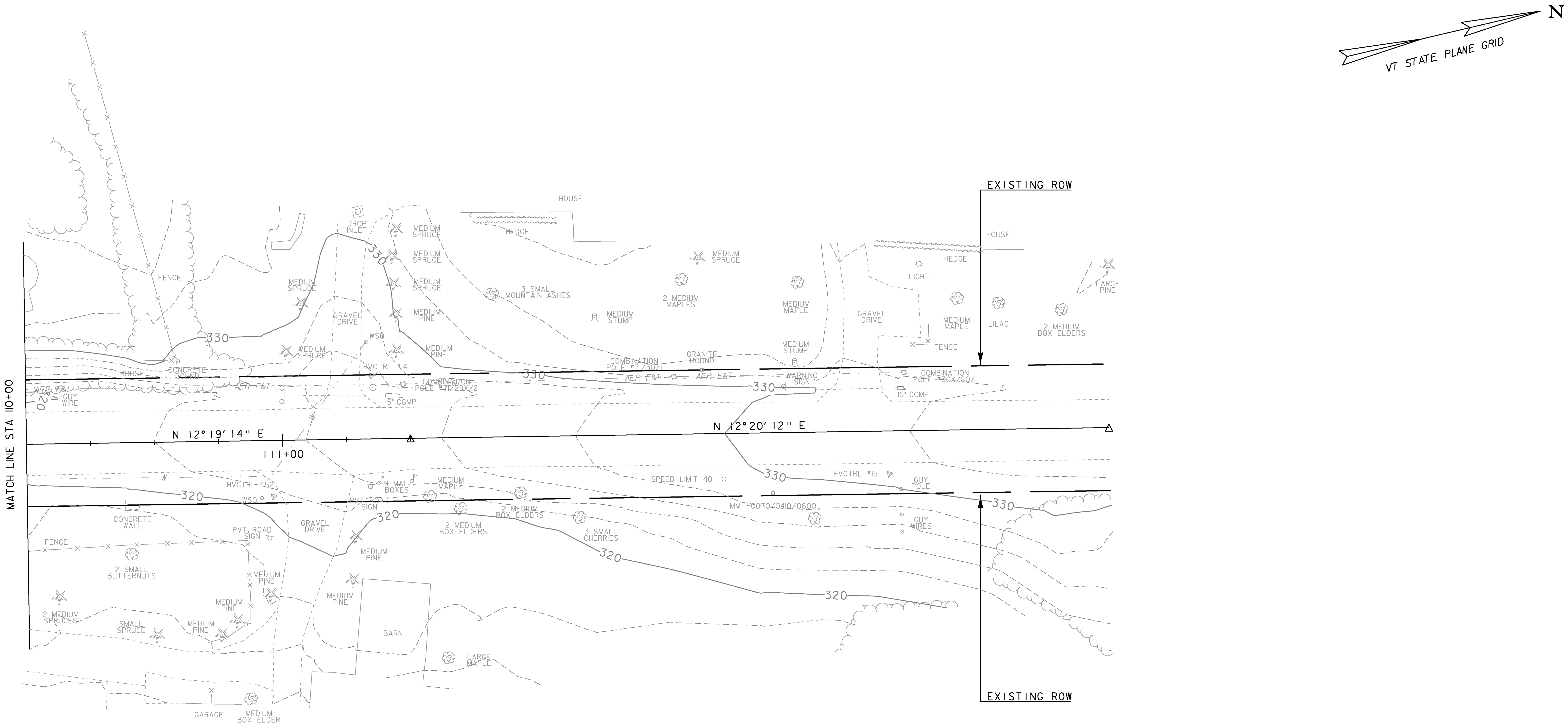
EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

0 20 40
SCALE IN FEET

LEGEND

— AER E&T — AERIAL ELECTRIC & TELEPHONE

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289ecexistingbdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
EPSC EXISTING CONDITIONS SHEET 2	SHEET 40 OF 104



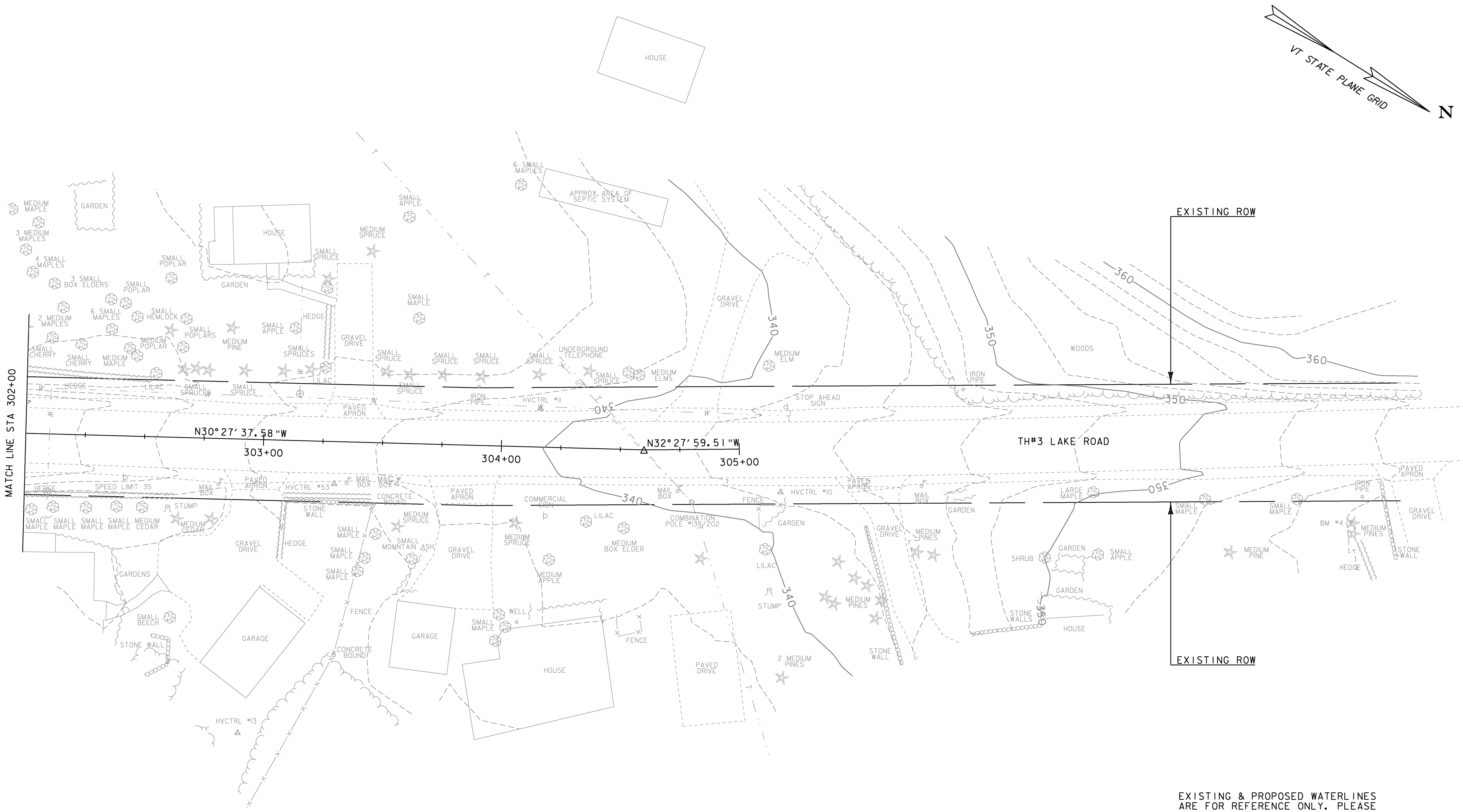
LEGEND

— AER E&T — AERIAL ELECTRIC & TELEPHONE

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

0 20 40
SCALE IN FEET

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289ecexistingbdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
EPSC EXISTING CONDITIONS SHEET 3	SHEET 41 OF 104



EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

LEGEND

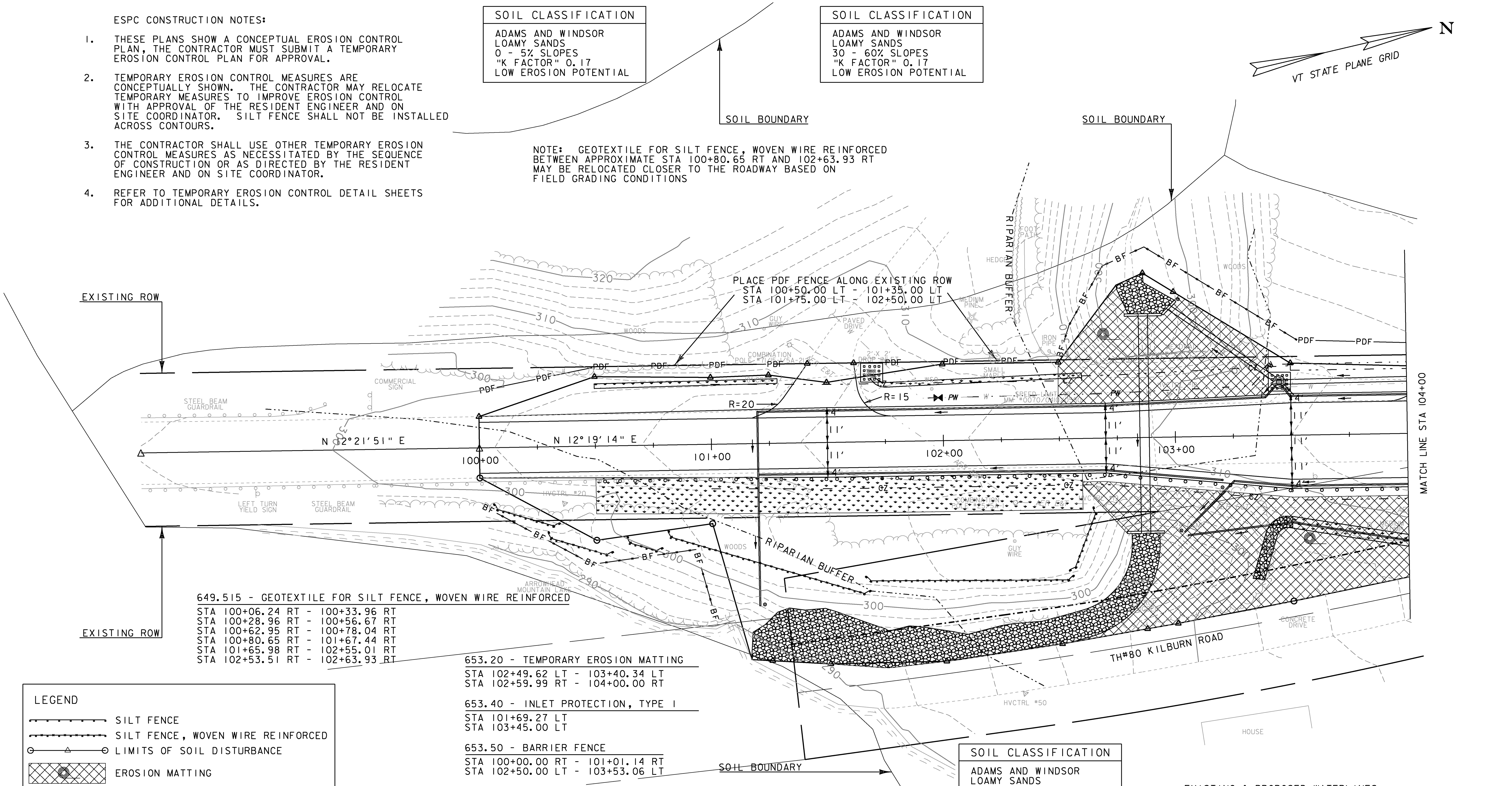
— AER E&T — AERIAL ELECTRIC & TELEPHONE

0 20 40
SCALE IN FEET

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289ecexistingbdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
EPSC EXISTING CONDITIONS SHEET 4	SHEET 42 OF 104

ESPC CONSTRUCTION NOTES:

1. THESE PLANS SHOW A CONCEPTUAL EROSION CONTROL PLAN, THE CONTRACTOR MUST SUBMIT A TEMPORARY EROSION CONTROL PLAN FOR APPROVAL.
2. TEMPORARY EROSION CONTROL MEASURES ARE CONCEPTUALLY SHOWN. THE CONTRACTOR MAY RELOCATE TEMPORARY MEASURES TO IMPROVE EROSION CONTROL WITH APPROVAL OF THE RESIDENT ENGINEER AND ON SITE COORDINATOR. SILT FENCE SHALL NOT BE INSTALLED ACROSS CONTOURS.
3. THE CONTRACTOR SHALL USE OTHER TEMPORARY EROSION CONTROL MEASURES AS NECESSITATED BY THE SEQUENCE OF CONSTRUCTION OR AS DIRECTED BY THE RESIDENT ENGINEER AND ON SITE COORDINATOR.
4. REFER TO TEMPORARY EROSION CONTROL DETAIL SHEETS FOR ADDITIONAL DETAILS.



649.515 - GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED
STA 100+06.24 RT - 100+33.96 RT
STA 100+28.96 RT - 100+56.67 RT
STA 100+62.95 RT - 100+78.04 RT
STA 100+80.65 RT - 101+67.44 RT
STA 101+65.98 RT - 102+55.01 RT
STA 102+53.51 RT - 102+63.93 RT

653.20 - TEMPORARY EROSION MATTING
STA 102+49.62 LT - 103+40.34 LT
STA 102+59.99 RT - 104+00.00 RT

653.40 - INLET PROTECTION, TYPE I
STA 101+69.27 LT
STA 103+45.00 LT

653.50 - BARRIER FENCE
STA 100+00.00 RT - 101+01.14 RT
STA 102+50.00 LT - 103+53.06 LT

653.55 - PROJECT DEMARCATION FENCE
STA 100+00.00 LT - 101+35.00 LT
STA 101+75.00 LT - 102+50.00 LT
STA 103+53.06 LT - 104+00.00 LT

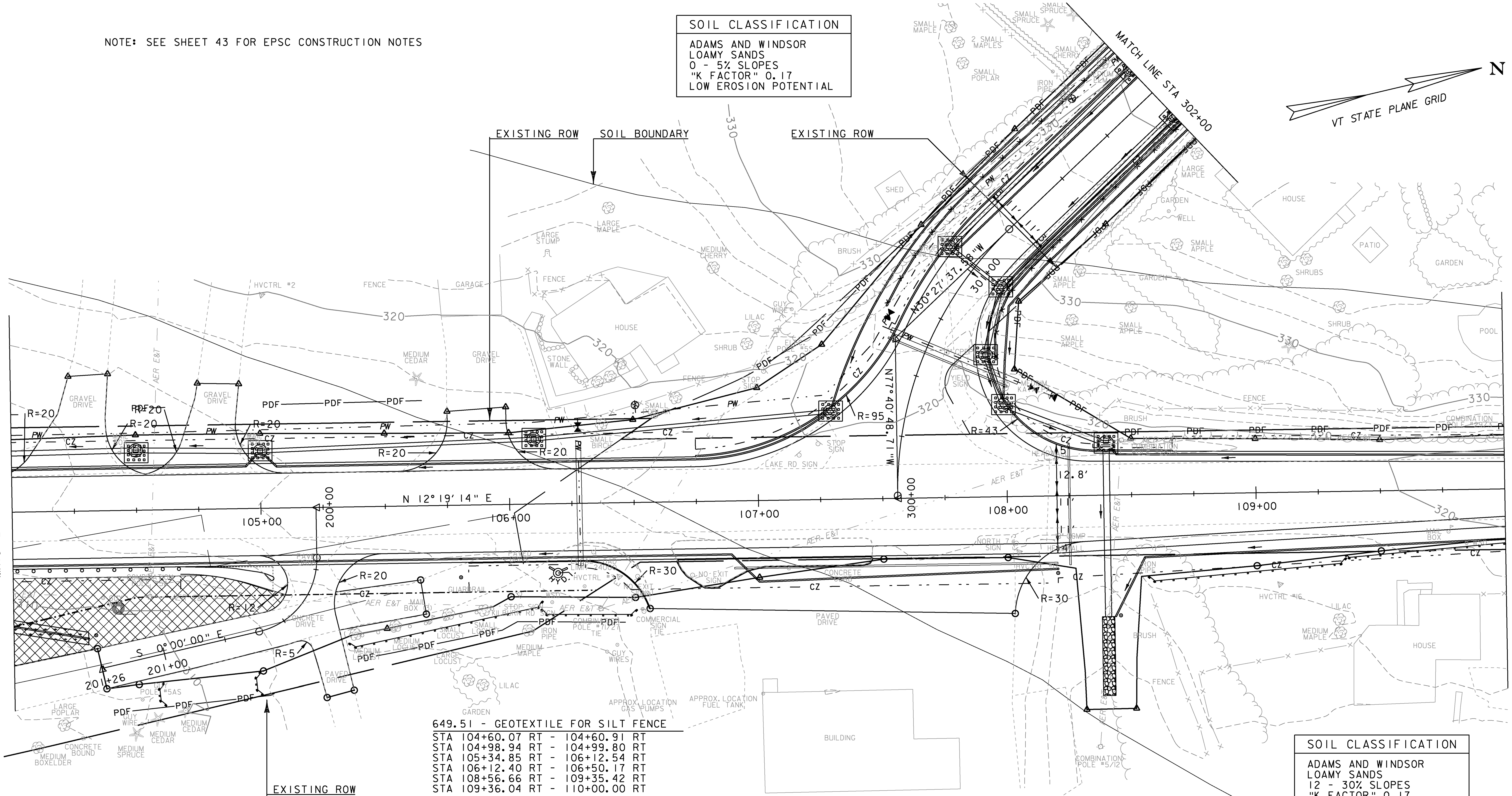
LEGEND
- SILT FENCE
- SILT FENCE, WOVEN WIRE REINFORCED
- LIMITS OF SOIL DISTURBANCE
- EROSION MATTING
- PDF——PDF PROJECT DEMARCATION FENCE
- BF——BF BARRIER FENCE
- STONE DROP INLET PROTECTION

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

0 20 40
SCALE IN FEET

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289ecconstructionbdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
EPSC CONSTRUCTION SHEET 1	SHEET 43 OF 104

NOTE: SEE SHEET 43 FOR EPSC CONSTRUCTION NOTES



SOIL CLASSIFICATION

ADAMS AND WINDSOR
LOAMY SANDS
0 - 5% SLOPES
"K FACTOR" 0.17
LOW EROSION POTENTIAL

649.51 - GEOTEXTILE FOR SILT FENCE

STA 104+60.07 RT - 104+60.91 RT
STA 104+98.94 RT - 104+99.80 RT
STA 105+34.85 RT - 106+12.54 RT
STA 106+12.40 RT - 106+50.17 RT
STA 108+56.66 RT - 109+35.42 RT
STA 109+36.04 RT - 110+00.00 RT

SOIL CLASSIFICATION

ADAMS AND WINDSOR
LOAMY SANDS
12 - 30% SLOPES
"K FACTOR" 0.17
LOW EROSION POTENTIAL

SOIL BOUNDARY

LEGEND

- SILT FENCE
- LIMITS OF SOIL DISTURBANCE
- EROSION MATTING
- PDF——PDF PROJECT DEMARCATION FENCE
- STONE DROP INLET PROTECTION

653.20 - TEMPORARY EROSION MATTING

STA 104+00.00 RT - 105+09.31 RT

SOIL CLASSIFICATION

ADAMS AND WINDSOR
LOAMY SANDS
0 - 5% SLOPES
"K FACTOR" 0.17
LOW EROSION POTENTIAL

653.40 - INLET PROTECTION, TYPE I

STA 104+50.00 LT
STA 105+00.00 LT
STA 106+10.00 LT
STA 107+29.41 LT
STA 108+40.00 LT
STA 300+50.00 RT
STA 300+70.00 RT
STA 301+00.00 LT
STA 301+00.00 RT
STA 302+00.00 LT
STA 302+00.00 RT

653.55 - PROJECT DEMARCATION FENCE

STA 104+00.00 LT - 104+06.84 LT
STA 104+39.12 RT - 105+04.28 RT
STA 104+48.09 LT - 104+62.15 LT
STA 105+00.79 LT - 105+65.34 LT
STA 105+37.40 RT - 106+45.88 RT
STA 107+00.00 LT - 302+00.00 LT
STA 302+00.00 RT - 110+00.00 LT

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

0 20 40
SCALE IN FEET

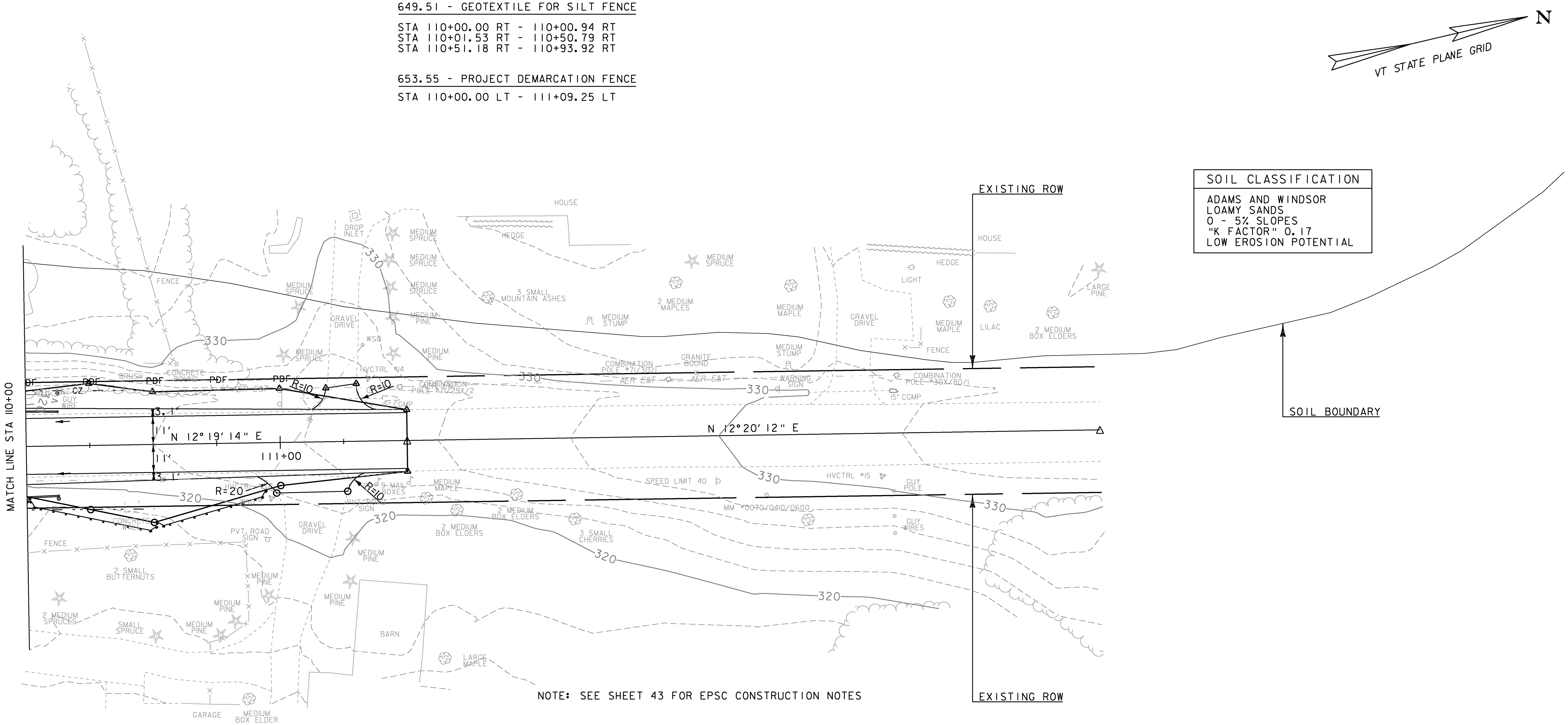
PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289ecconstructionbdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
EPSC CONSTRUCTION SHEET 2	SHEET 44 OF 104

649.51 - GEOTEXTILE FOR SILT FENCE

STA 110+00.00 RT - 110+00.94 RT
STA 110+01.53 RT - 110+50.79 RT
STA 110+51.18 RT - 110+93.92 RT

653.55 - PROJECT DEMARCATION FENCE

STA 110+00.00 LT - 111+09.25 LT



SOIL CLASSIFICATION

ADAMS AND WINDSOR
LOAMY SANDS
0 - 5% SLOPES
"K FACTOR" 0.17
LOW EROSION POTENTIAL

NOTE: SEE SHEET 43 FOR EPSC CONSTRUCTION NOTES

SOIL CLASSIFICATION

ADAMS AND WINDSOR
LOAMY SANDS
12 - 30% SLOPES
"K FACTOR" 0.17
LOW EROSION POTENTIAL

LEGEND

- SILT FENCE
- LIMITS OF SOIL DISTURBANCE
- EROSION MATTING
- PDF———PDF PROJECT DEMARCATION FENCE
- STONE DROP INLET PROTECTION

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

0 20 40
SCALE IN FEET

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289ecconstructionbdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
EPSC CONSTRUCTION SHEET 3	SHEET 45 OF 104

SOIL CLASSIFICATION
ADAMS AND WINDSOR LOAMY SANDS 0 - 5% SLOPES "K FACTOR" 0.17 LOW EROSION POTENTIAL

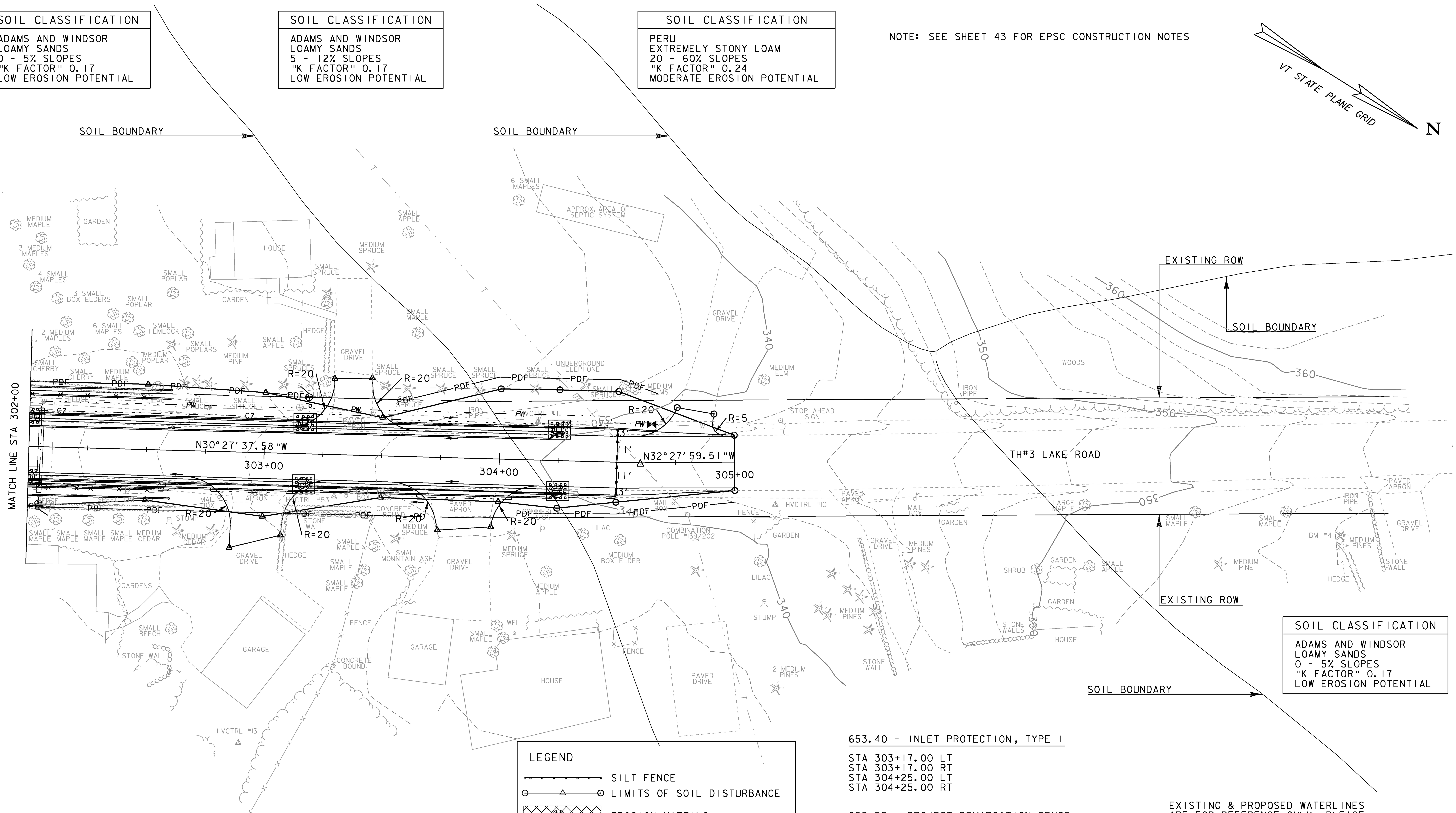
SOIL CLASSIFICATION
ADAMS AND WINDSOR LOAMY SANDS 5 - 12% SLOPES "K FACTOR" 0.17 LOW EROSION POTENTIAL

SOIL CLASSIFICATION
PERU EXTREMELY STONY LOAM 20 - 60% SLOPES "K FACTOR" 0.24 MODERATE EROSION POTENTIAL

NOTE: SEE SHEET 43 FOR EPSC CONSTRUCTION NOTES

VT STATE PLANE GRID

N



SOIL CLASSIFICATION
ADAMS AND WINDSOR LOAMY SANDS 0 - 5% SLOPES "K FACTOR" 0.17 LOW EROSION POTENTIAL

LEGEND

- SILT FENCE
- LIMITS OF SOIL DISTURBANCE
- EROSION MATTING
- PDF——PDF PROJECT DEMARCATION FENCE
- STONE DROP INLET PROTECTION

653.40 - INLET PROTECTION, TYPE I

STA 303+17.00 LT
STA 303+17.00 RT
STA 304+25.00 LT
STA 304+25.00 RT

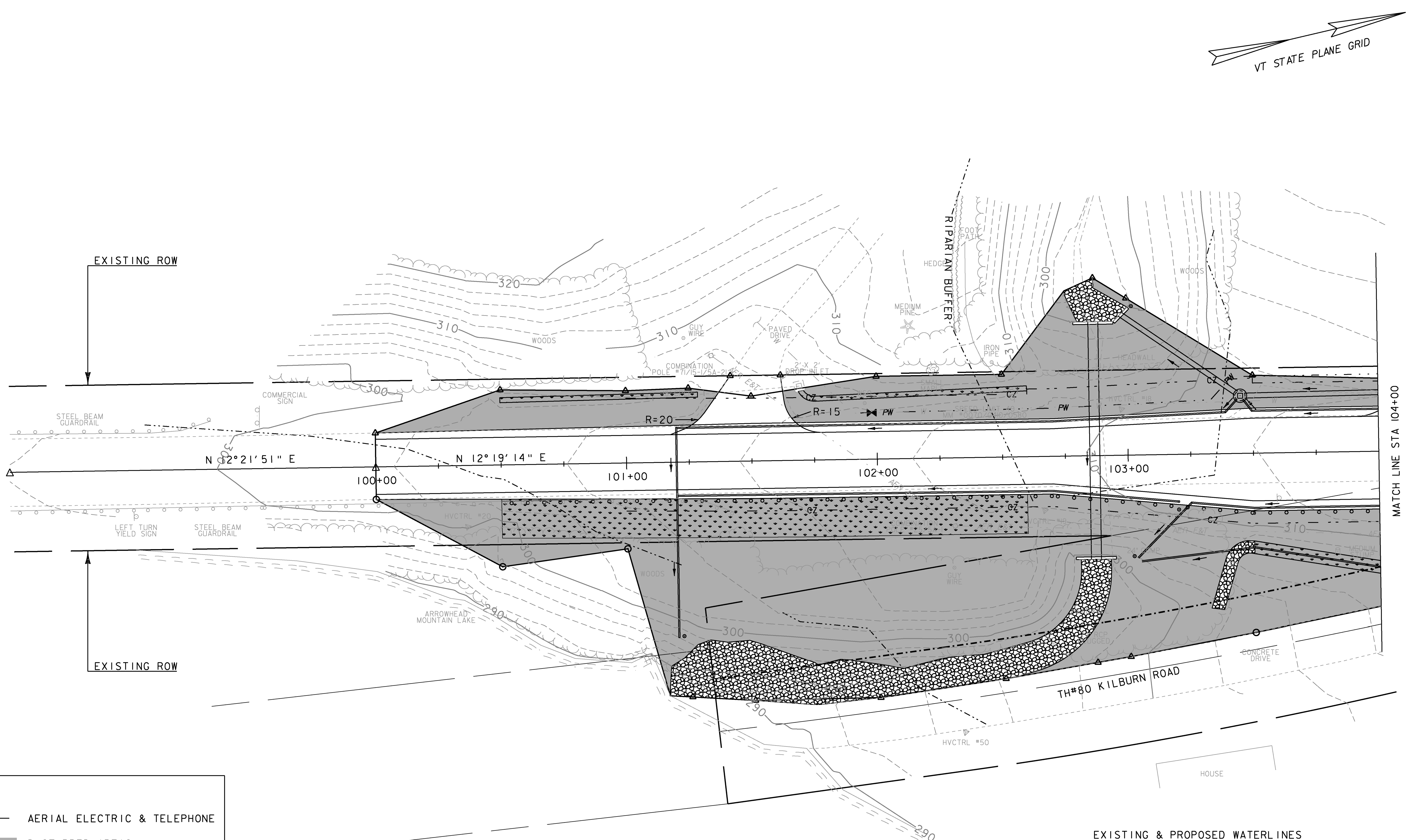
653.55 - PROJECT DEMARCATION FENCE

STA 302+00.00 LT - 303+21.21 LT
STA 302+00.00 RT - 302+75.28 RT
STA 303+14.71 RT - 303+67.90 RT
STA 303+55.55 LT - 304+67.54 LT
STA 304+07.31 RT - 305+00.00 RT

0 20 40
SCALE IN FEET

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289ecconstructionbdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
EPSC CONSTRUCTION SHEET 4	SHEET 46 OF 104



LEGEND

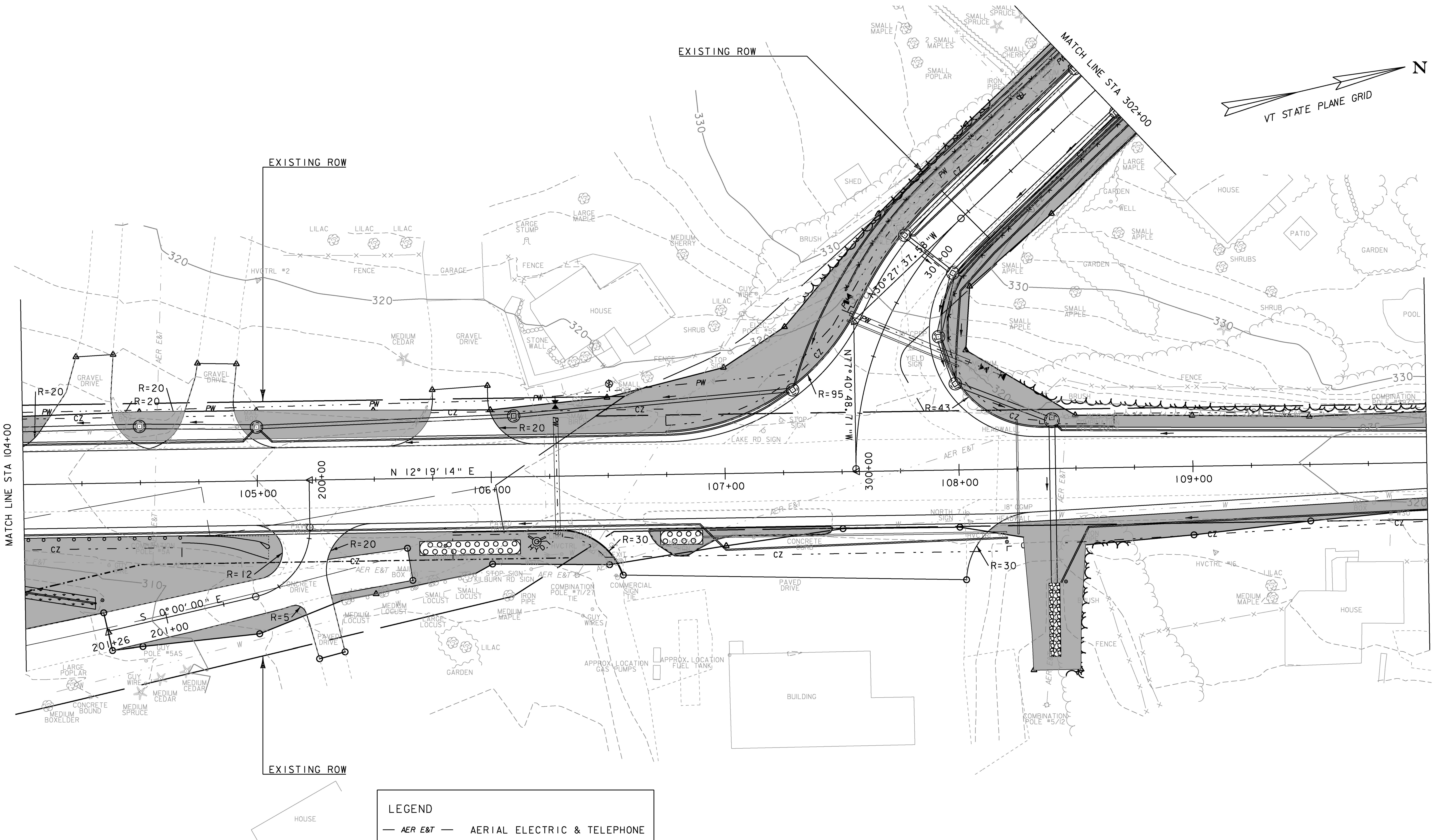
— AER E&T — AERIAL ELECTRIC & TELEPHONE

DISTURBED AREAS REQUIRING RE-VEGETATION

LIMITS OF SOIL DISTURBANCE

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289ecfinalbdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
EPSC FINAL CONDITIONS SHEET 1	SHEET 47 OF 104



LEGEND

— AER E&T — AERIAL ELECTRIC & TELEPHONE

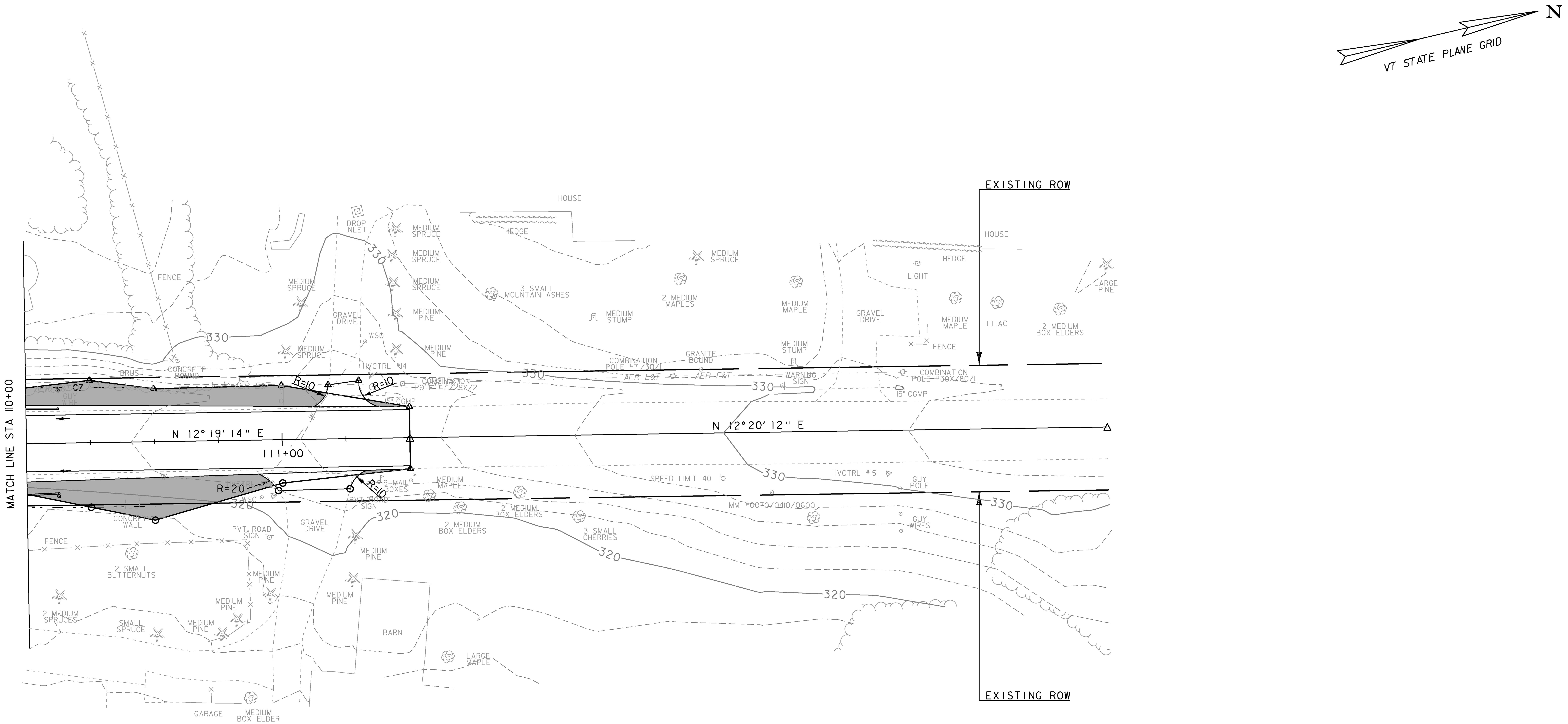
DISTURBED AREAS REQUIRING RE-VEGETATION

LIMITS OF SOIL DISTURBANCE

0 20 40
SCALE IN FEET

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289ecfinalbdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
EPSC FINAL CONDITIONS SHEET 2	SHEET 48 OF 104



LEGEND

AER E&T — AERIAL ELECTRIC & TELEPHONE

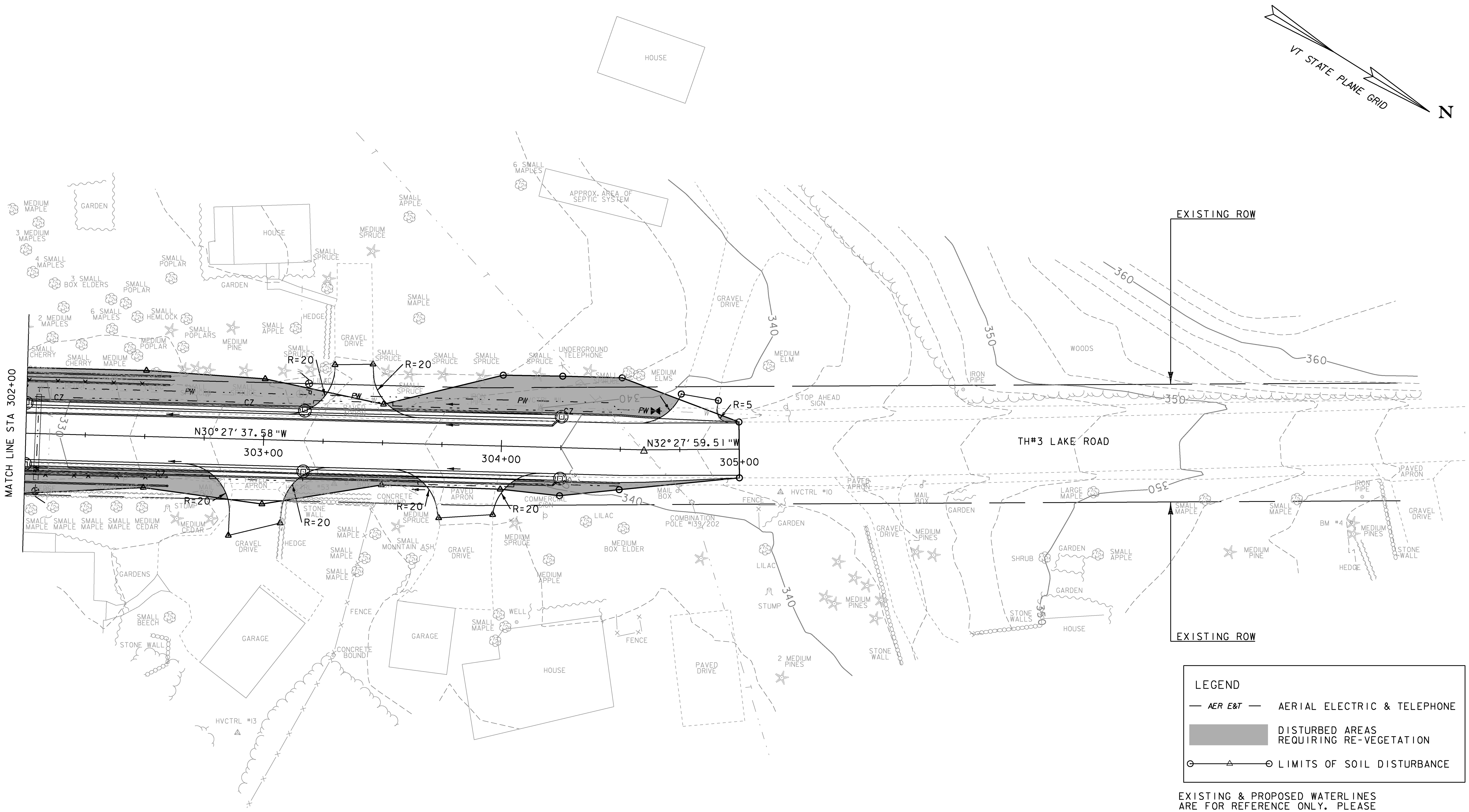
DISTURBED AREAS REQUIRING RE-VEGETATION

LIMITS OF SOIL DISTURBANCE

0 20 40
SCALE IN FEET

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

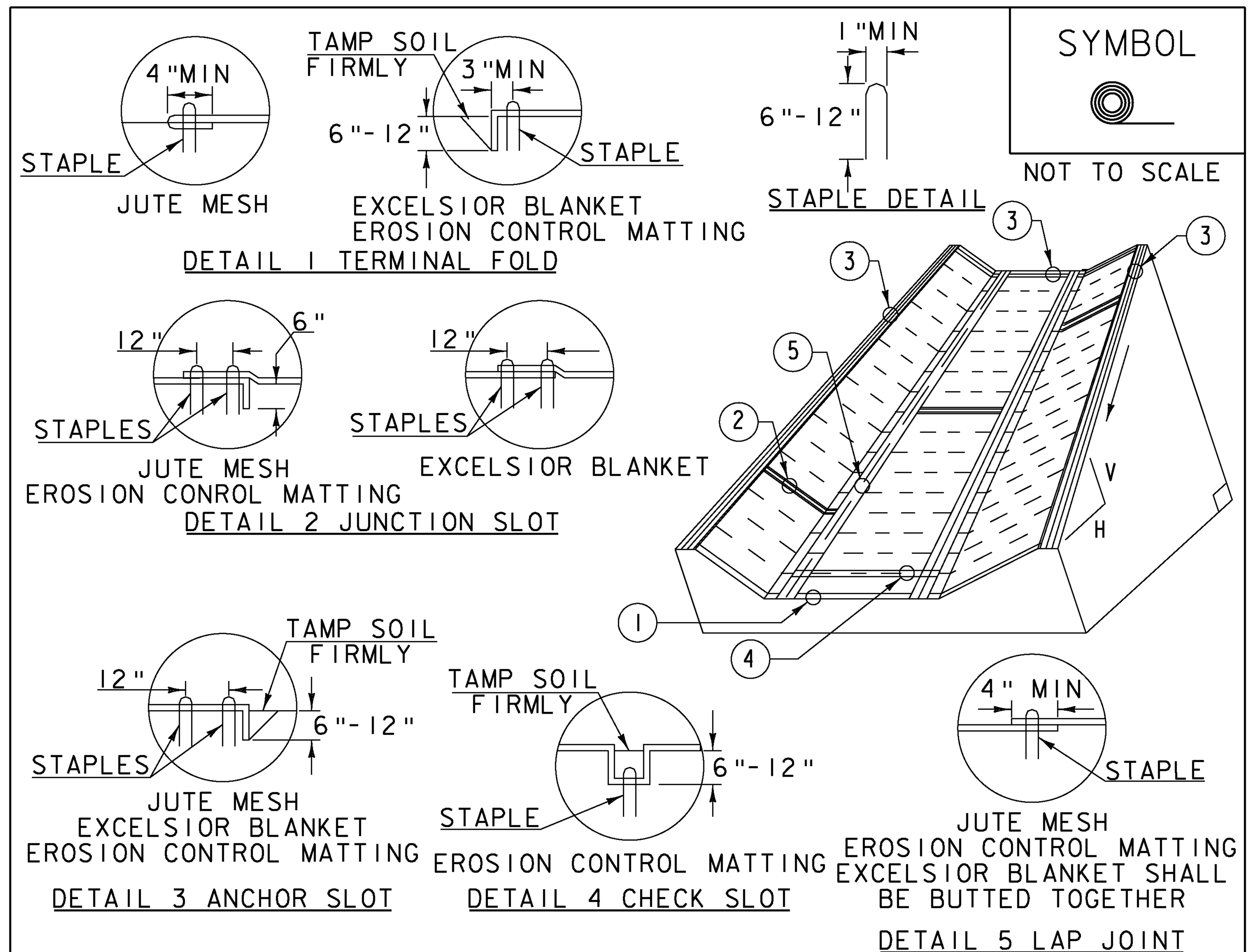
PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289ecfinalbdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
EPSC FINAL CONDITIONS SHEET 3	SHEET 49 OF 104



EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

0 20 40
SCALE IN FEET

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289ecfinalbdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
EPSC FINAL CONDITIONS SHEET 4	SHEET 50 OF 104



CONSTRUCTION SPECIFICATIONS

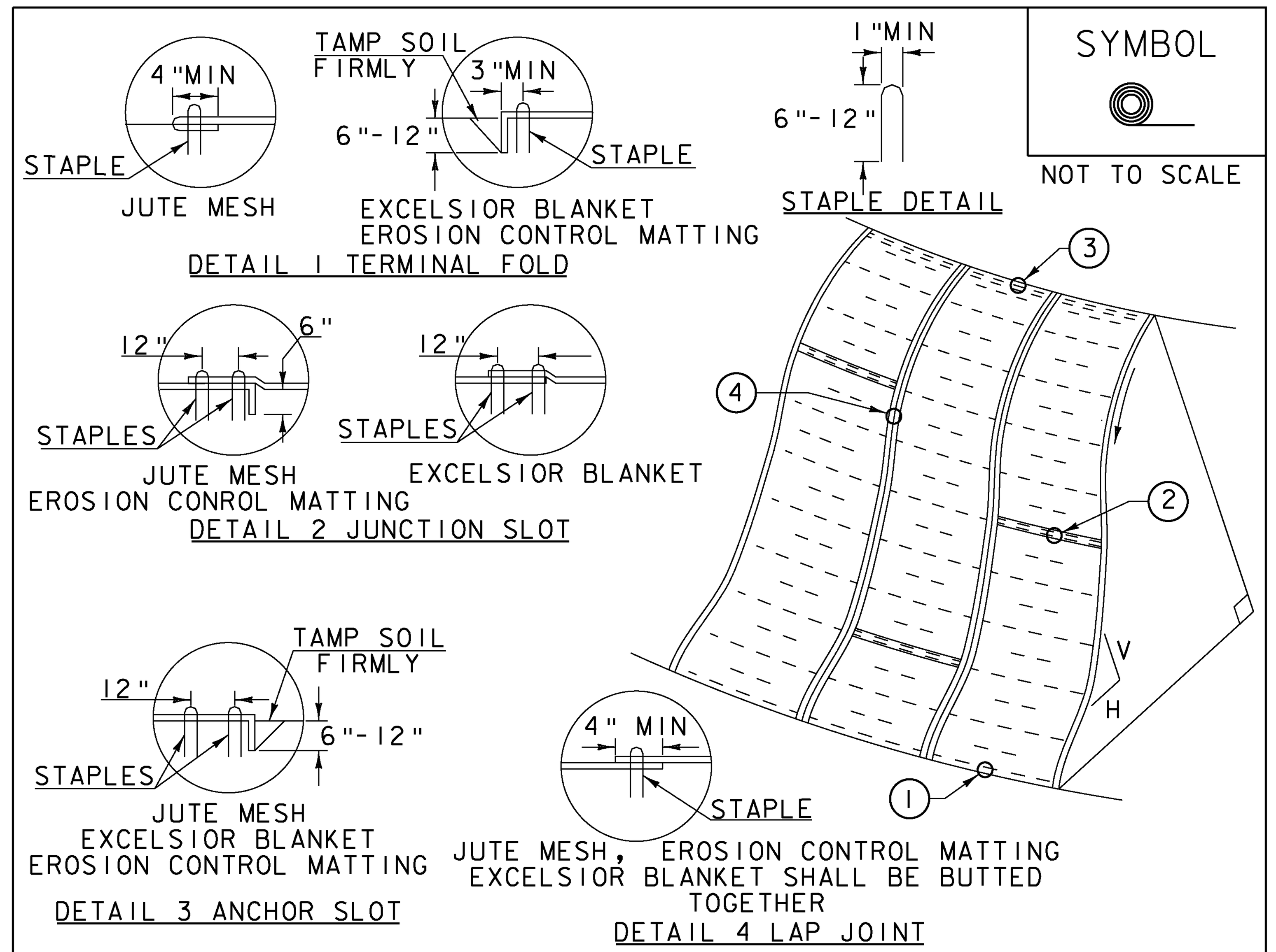
1. EROSION MATTING, CHECK SLOTS, SHALL BE SPACED IN DITCH CHANNEL SO THAT ONE OCCURS WITHIN EACH 50' ON SLOPES OF MORE THAN 4% AND LESS THAN 6%. ON SLOPES OF 6% OR MORE, THEY SHALL BE SPACED SO THAT ONE OCCURS WITHIN EACH 25'.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'X225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4'X150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

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

ROLLED EROSION CONTROL PRODUCT (RECP) DITCH

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20)

REVISIONS	
MARCH 8, 2007	JMF
APRIL 16, 2007	WHF
JANUARY 13, 2009	WHF



CONSTRUCTION SPECIFICATIONS

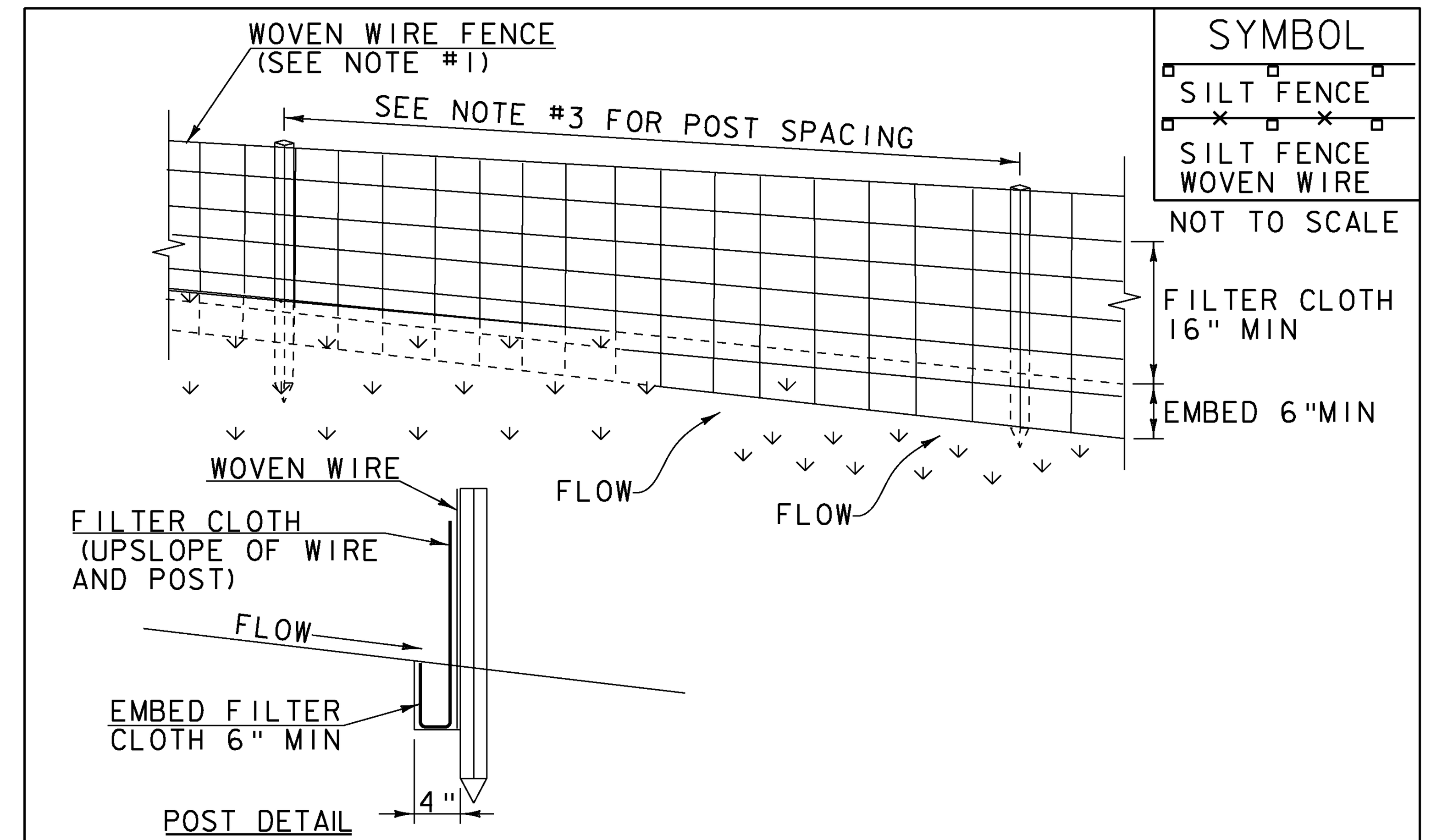
1. APPLY TO SLOPES GREATER THAN 3H:1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'X225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4'X150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

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

ROLLED EROSION CONTROL PRODUCT (RECP) SIDE SLOPE

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20)

REVISIONS	
APRIL 16, 2007	JMF
JANUARY 13, 2009	WHF



CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE REINFORCED FENCE IS REQUIRED WITHIN 100' UPSLOPE OF RECEIVING WATERS WHEN THE PROJECT FALLS UNDER A CONSTRUCTION STORMWATER PERMIT. WOVEN WIRE SHALL BE A MIN. 14 GAUGE WITH A 6" MAX. MESH OPENING.
2. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI100X, STABILINKA T140N OR APPROVED EQUIVALENT.
3. POST SPACING FOR WIRE-BACKED FENCE SHALL BE 10' MAXIMUM. FOR FILTER-CLOTH FENCE, WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4' AND WHEN ELONGATION IS <50%, POST SPACING SHALL NOT EXCEED 6'.
4. WOVEN WIRE FENCE IS TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. FILTER CLOTH IS TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6" AND FOLDED.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.

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

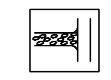
SILT FENCE

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

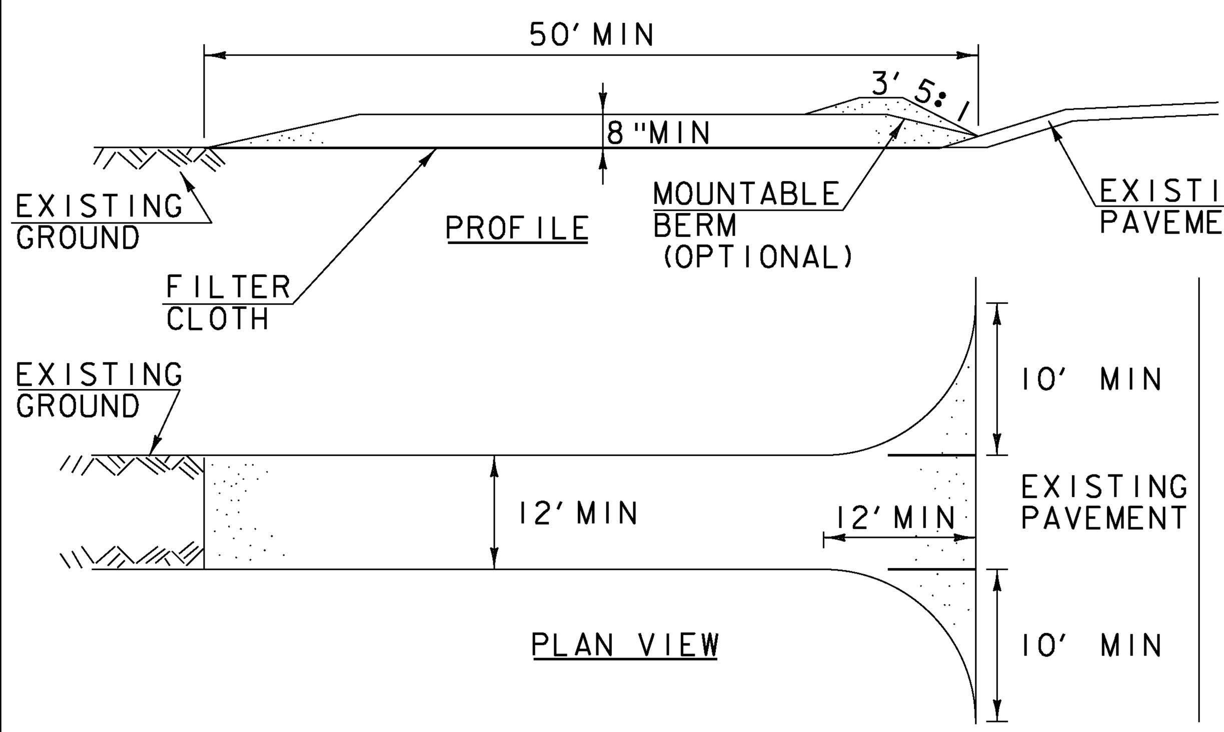
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 649 AND AS SHOWN IN THE PLANS FOR GEOTEXTILE FOR SILT FENCE (PAY ITEM 649.51) OR GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED (PAY ITEM 649.515).

REVISIONS	
MARCH 21, 2008	WHF
DECEMBER 11, 2008	WHF
JANUARY 13, 2009	WHF

SYMBOL



NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE- USE 1-4" STONE, RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH- NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES).
3. THICKNESS- NOT LESS THAN 8".
4. WIDTH- 12' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24' IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
6. SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

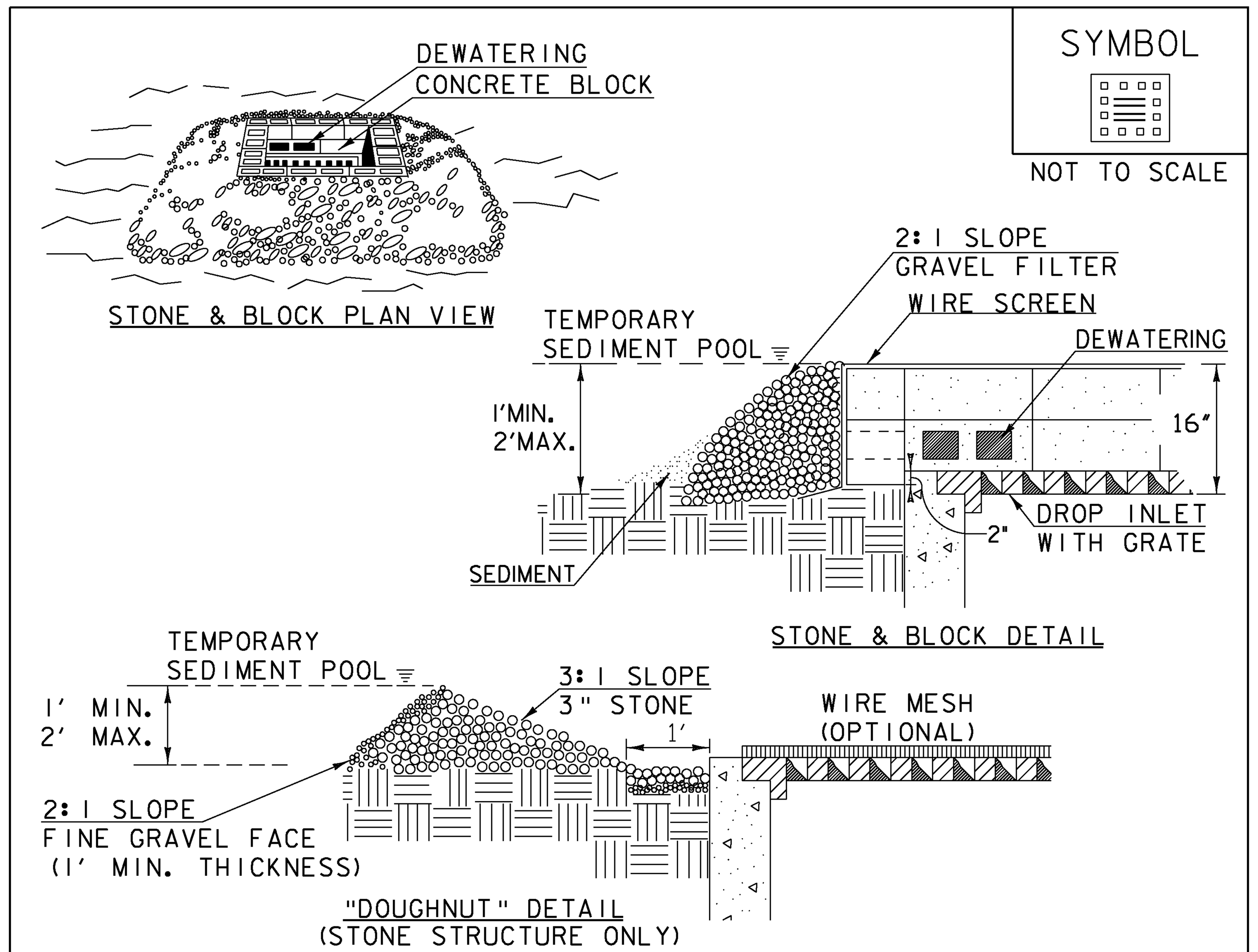
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

STABILIZED CONSTRUCTION ENTRANCE

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

THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT

REVISIONS	
MARCH 24, 2008	WHF
JANUARY 13, 2009	WHF



CONSTRUCTION SPECIFICATIONS

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2" MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR ½" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL ½"- ¾" IN DIAMETER PLACED 2" BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1' THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3" STONE AS SHOWN ON THE DRAWINGS.
5. MAXIMUM DRAINAGE AREA 1 ACRE

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

STONE & BLOCK DROP INLET PROTECTION

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

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR INLET PROTECTION DEVICE, TYPE I(PAY ITEM 653.40).

REVISIONS	
MARCH 6, 2008	WHF
JANUARY 13, 2009	WHF

VAOT RURAL AREA MIX

	LBS/AC				
% WEIGHT	BROADCAST	HYDROSEED	NAME	GERM %	PURITY %
37.5%	22.5	45	CREEPING RED FESCUE	85%	98%
37.5%	22.5	45	TALL FESCUE	90%	95%
5.0%	3	6	RED TOP	90%	95%
15.0%	9	18	BIRDSFOOT TREFOIL	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	85%	95%
100%	60	120			

VAOT URBAN AREA MIX

	LBS/AC				
% WEIGHT	BROADCAST	HYDROSEED	NAME	GERM %	PURITY %
42.5%	34	68	CREEPING RED FESCUE	85%	98%
10.0%	8	16	PERENNIAL RYE GRASS	90%	95%
42.5%	34	68	KENTUCKY BLUE GRASS	85%	85%
5.0%	4	8	ANNUAL RYE GRASS	85%	95%
100%	80	160			

SOIL AMENDMENT GUIDANCE

FERTILIZER		LIME	
BROADCAST	HYDROSEED	BROADCAST	HYDROSEED
10-20-10	*FOLLOW*	PELLETIZED	*FOLLOW*
500 LBS/AC	*MANUFACTURER*	2 TONS/AC	*MANUFACTURER*

CONSTRUCTION GUIDANCE

1. RURAL SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
2. URBAN SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED LAWN AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
7. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED
8. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MAUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES

TURF ESTABLISHMENT

REVISIONS	
JUNE 23, 2009	WHF
JANUARY 15, 2010	WHF
FEBRUARY 16, 2011	WHF

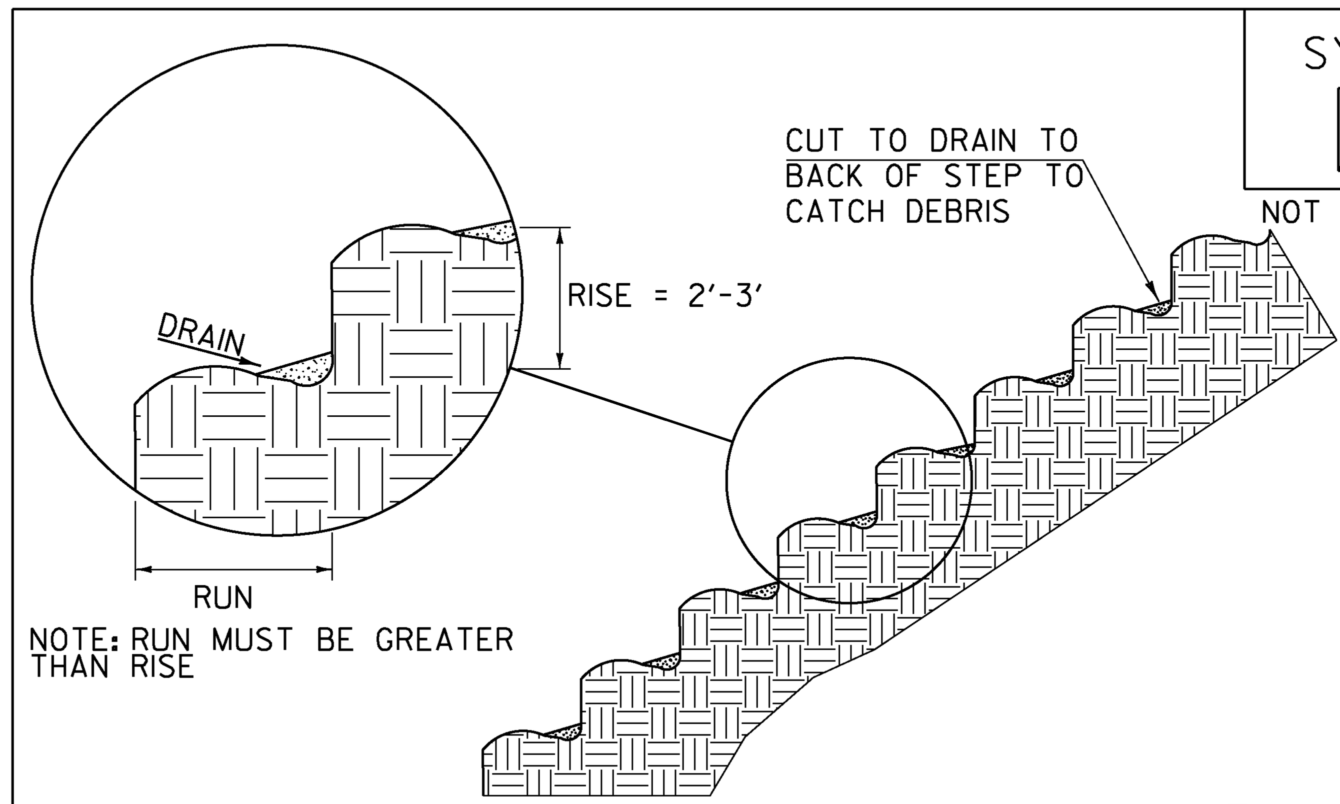
PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)

FILE NAME: t92D289ecdetails.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: D. LYMAN
EPSC DETAILS SHEET 2

PLOT DATE: 23-FEB-2011
DRAWN BY: J. DEVLIN
CHECKED BY: J. DEVLIN

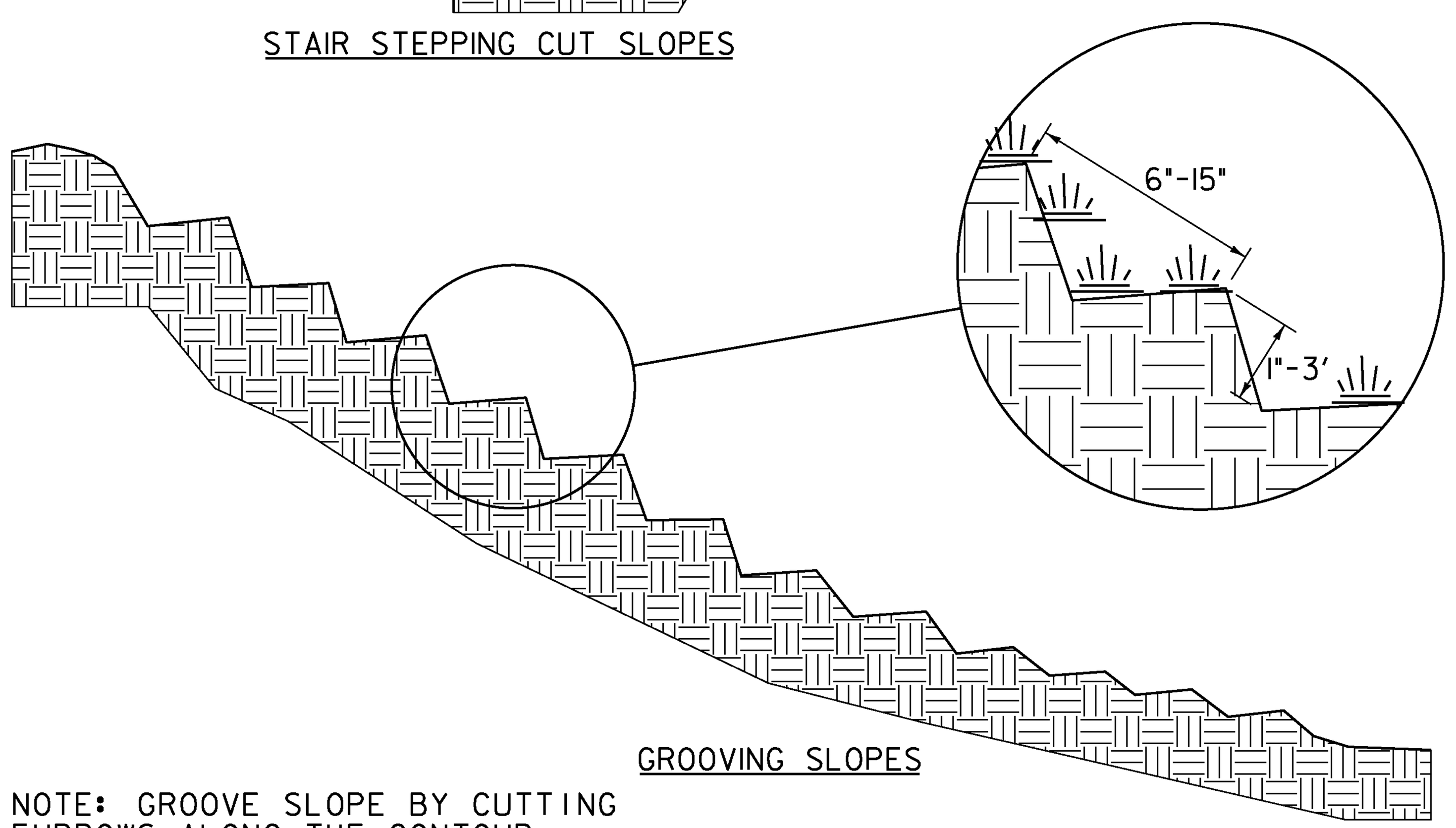
SYMBOL

NOT TO SCALE



NOTE: RUN MUST BE GREATER THAN RISE

STAIR STEPPING CUT SLOPES



GROOVING SLOPES

NOTE: GROOVE SLOPE BY CUTTING FURROWS ALONG THE CONTOUR. IRREGULARITIES IN THE SOIL SURFACE CATCH RAINWATER AND RETAIN LIME, FERTILIZER AND SEED.

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

SURFACE ROUGHENING

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

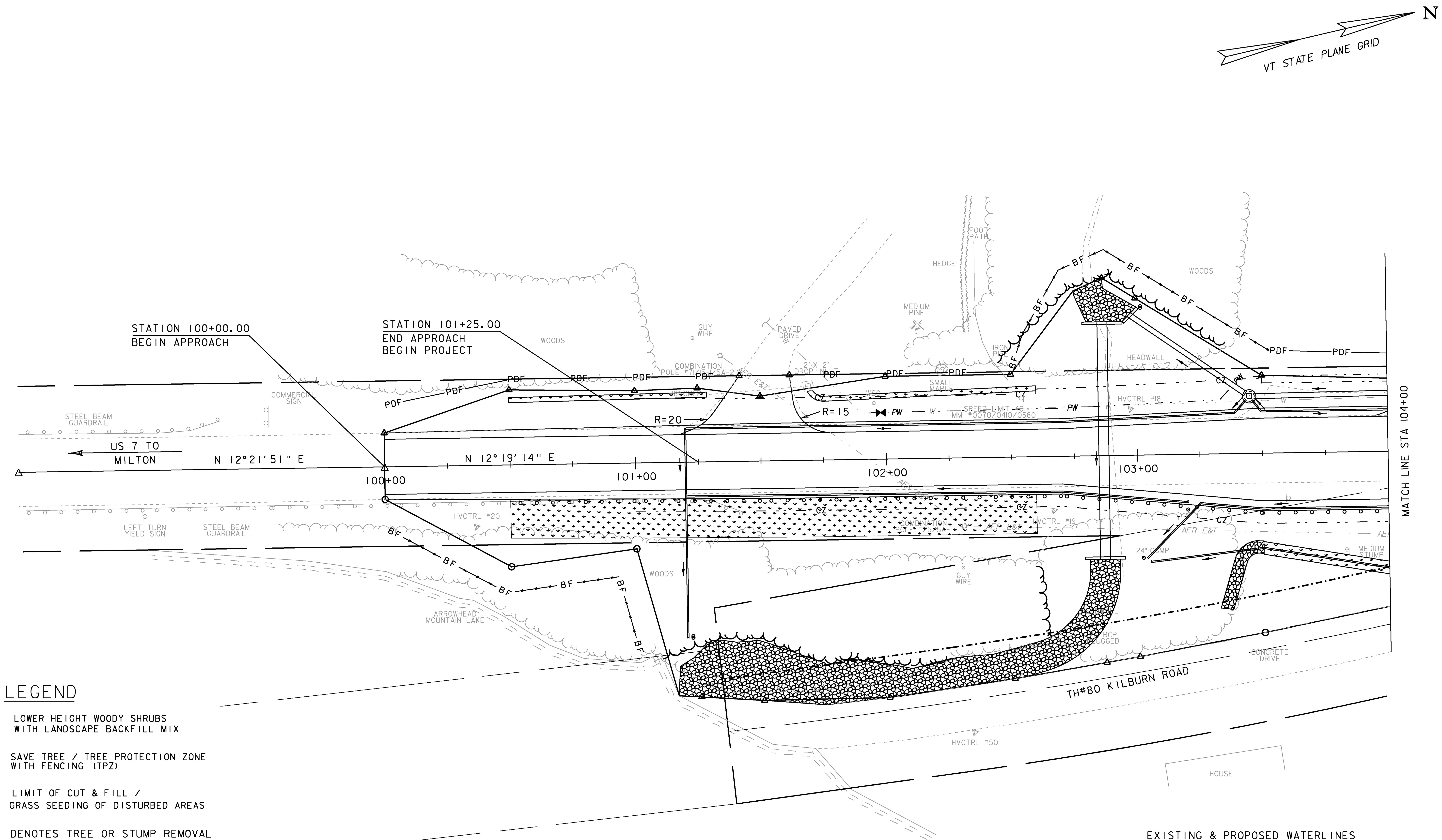
THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT

REVISIONS	
APRIL 1, 2008	WHF
JANUARY 13, 2009	WHF

PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)

FILE NAME: t92D289ecdetails.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: D. LYMAN
EPSC DETAILS SHEET 3

PLOT DATE: 23-FEB-2011
DRAWN BY: J. DEVLIN
CHECKED BY: J. DEVLIN
SHEET 53 OF 104



LEGEND

LOWER HEIGHT WOODY SHRUBS WITH LANDSCAPE BACKFILL MIX

SAVE TREE / TREE PROTECTION ZONE WITH FENCING (TPZ)

LIMIT OF CUT & FILL / GRASS SEEDING OF DISTURBED AREAS

DENOTES TREE OR STUMP REMOVAL PAID UNDER ITEM NUMBER 201.10 CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS

GENERAL LANDSCAPING NOTE:
EXISTING LANDSCAPE FEATURES LOCATED BEYOND PROPOSED PROJECT DEMARCATION FENCE SHALL REMAIN UNDISTURBED THROUGHOUT CONSTRUCTION

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92d289bdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
LANDSCAPE LAYOUT 1	SHEET 54 OF 104

656.35 DECIDUOUS SHRUBS

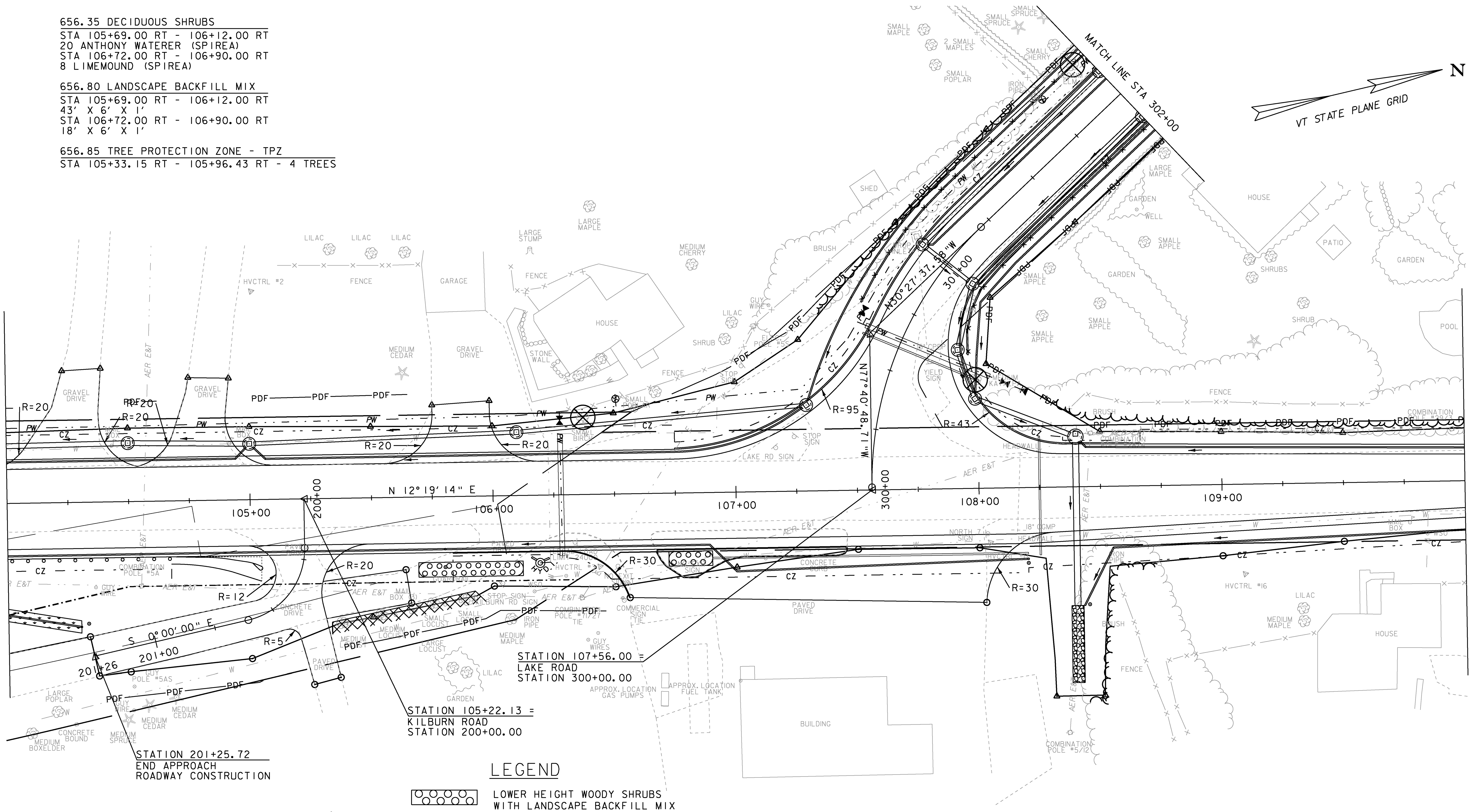
STA 105+69.00 RT - 106+12.00 RT
20 ANTHONY WATERER (SPIREA)
STA 106+72.00 RT - 106+90.00 RT
8 LIMEMOUND (SPIREA)

656.80 LANDSCAPE BACKFILL MIX

STA 105+69.00 RT - 106+12.00 RT
43' X 6' X 1'
STA 106+72.00 RT - 106+90.00 RT
18' X 6' X 1'

656.85 TREE PROTECTION ZONE - TPZ

STA 105+33.15 RT - 105+96.43 RT - 4 TREES



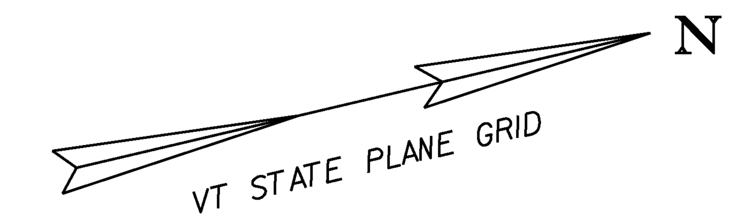
LEGEND

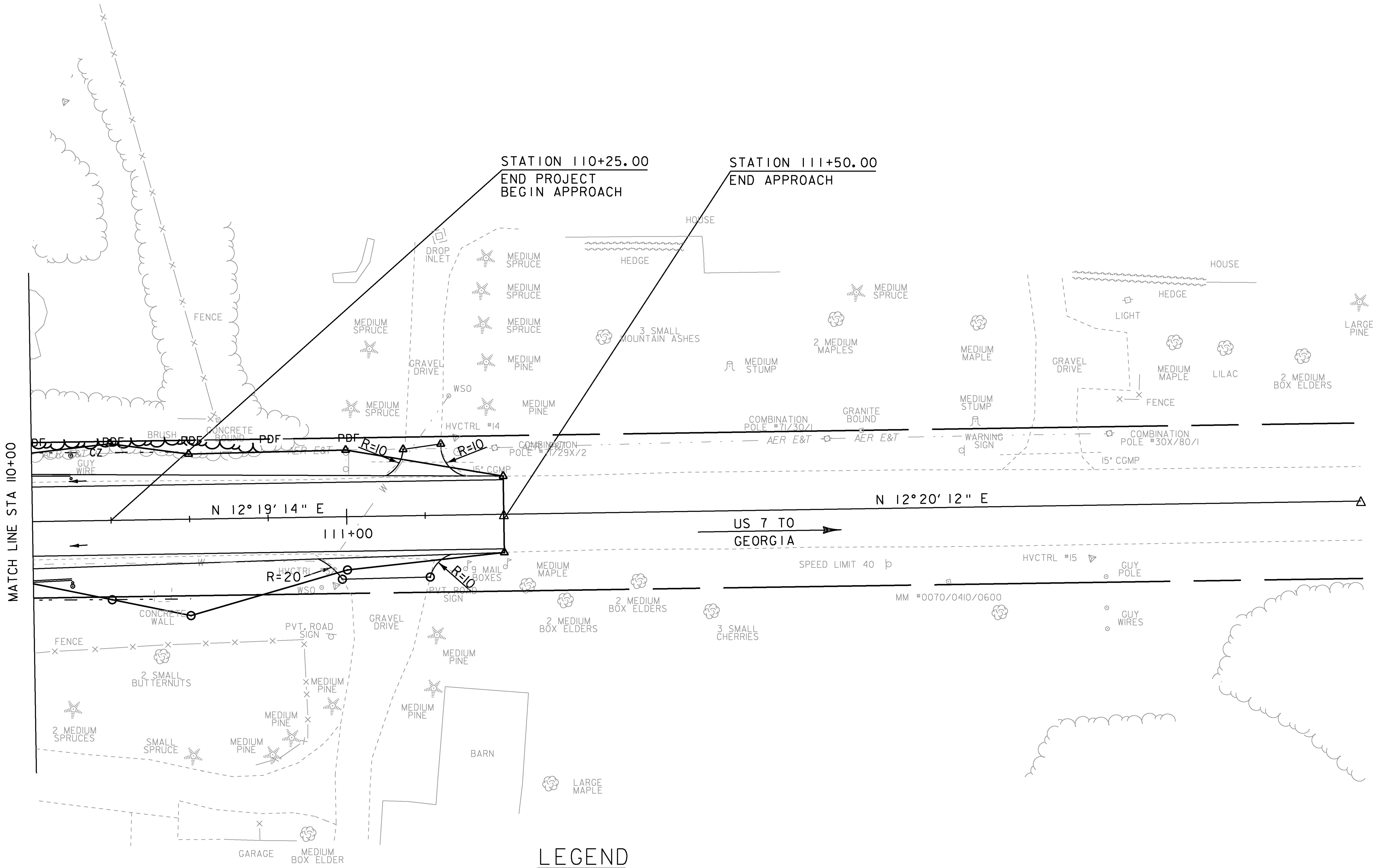
- LOWER HEIGHT WOODY SHRUBS WITH LANDSCAPE BACKFILL MIX
- SAVE TREE / TREE PROTECTION ZONE WITH FENCING (TPZ)
- LIMIT OF CUT & FILL / GRASS SEEDING OF DISTURBED AREAS
- DENOTES TREE OR STUMP REMOVAL PAID UNDER ITEM NUMBER 201.10 CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS

0 20 40
SCALE IN FEET

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92d289bdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
LANDSCAPE LAYOUT 2	SHEET 55 OF 104





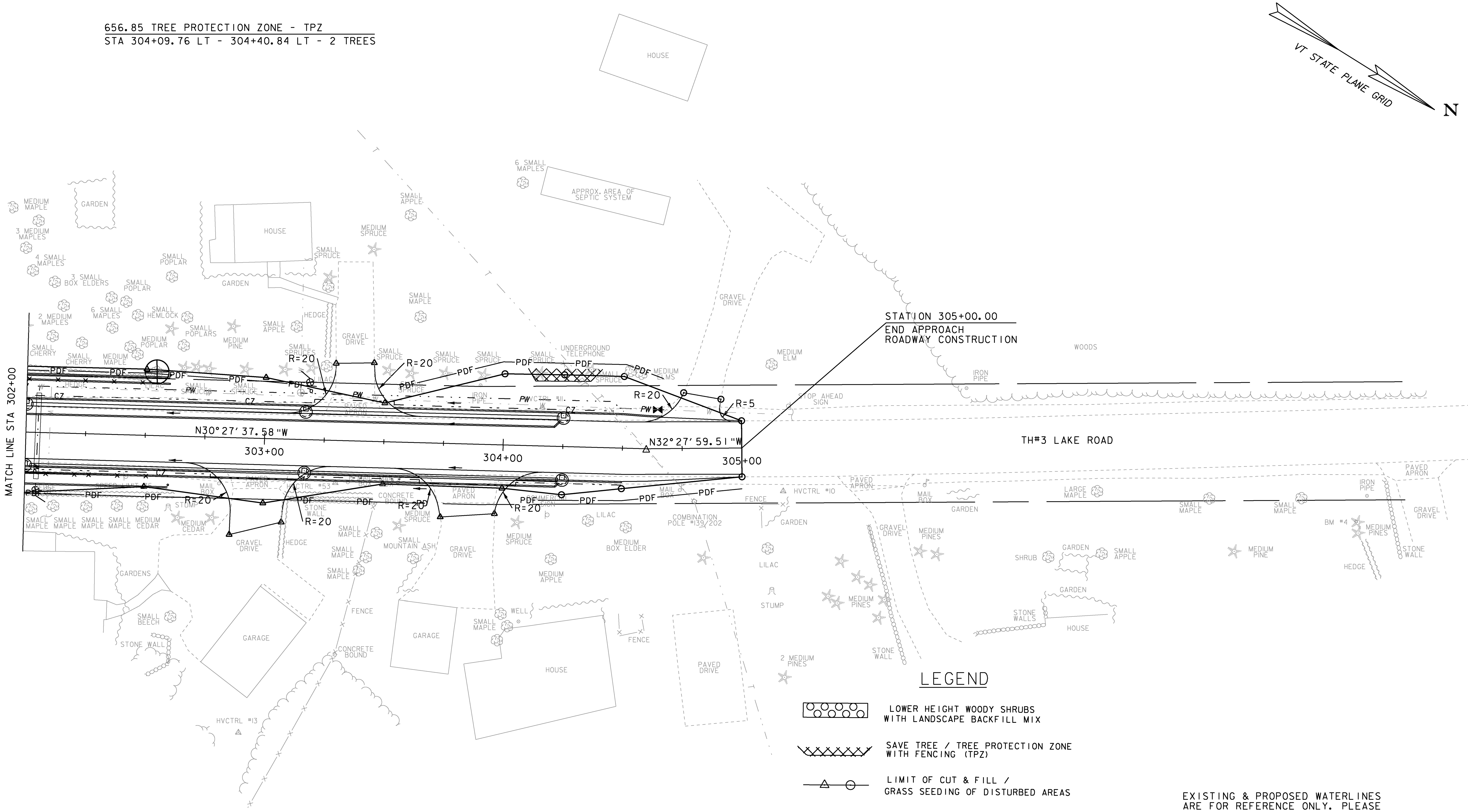
LEGEND

- LOWER HEIGHT WOODY SHRUBS WITH LANDSCAPE BACKFILL MIX
- SAVE TREE / TREE PROTECTION ZONE WITH FENCING (TPZ)
- LIMIT OF CUT & FILL / GRASS SEEDING OF DISTURBED AREAS
- DENOTES TREE OR STUMP REMOVAL PAID UNDER ITEM NUMBER 201.10 CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92d289bdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
LANDSCAPE LAYOUT 3	SHEET 56 OF 104

656.85 TREE PROTECTION ZONE - TPZ
STA 304+09.76 LT - 304+40.84 LT - 2 TREES



LEGEND

LOWER HEIGHT WOODY SHRUBS WITH LANDSCAPE BACKFILL MIX

SAVE TREE / TREE PROTECTION ZONE WITH FENCING (TPZ)

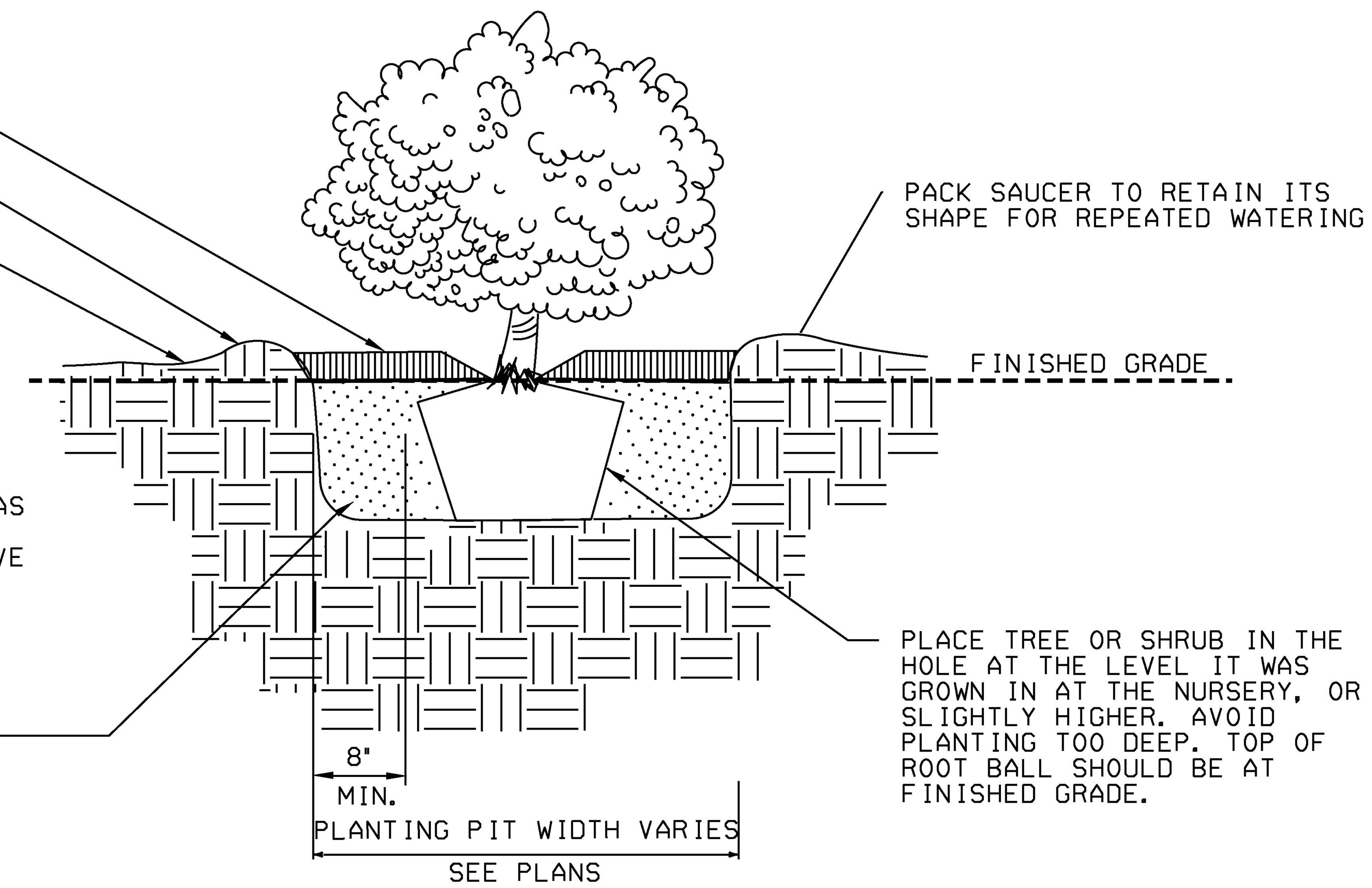
LIMIT OF CUT & FILL / GRASS SEEDING OF DISTURBED AREAS

DENOTES TREE OR STUMP REMOVAL PAID UNDER ITEM NUMBER 201.10 CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS

0 20 40
SCALE IN FEET

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92d289bdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
LANDSCAPE LAYOUT 4	SHEET 57 OF 104



SHRUB PLANTING DETAIL

NOT TO SCALE

PLANT LIST

		SHRUBS		
Qty.	**Size**	**Common Name / AREA**	**Botanical Name**	**Spacing / COMMENTS**
20	12" TO 18" HEIGHT	'ANTHONY WATERER' SPIREA	SPIREA X BUMALDA 'ANTHONY WATERER'	3' ON CENTER
8	12" TO 18" HEIGHT	'LIMEMOUND' SPIREA	SPIREA 'MONHUB' P.P.# 5834 'LIMEMOUND'	3' ON CENTER

NOTES

Follow VTRANS Planting Specifications Section 656.

Water per specifications 5 gallons per shrub at time of planting and 5 gallons per shrub 2 times per week

ADD LANDSCAPE BACKFILL MIX TO THE BED AS DIMENSIONED PRIOR TO PLANTING. LANDSCAPE BACKFILL MIX SHALL BE 2/3 APPROVED TOPSOIL MIX AND 1/3 APPROVED COMPOST (see VTrans Specifications)

APPROVED ALTERNATIVE SPECIES FOR 'ANTHONY WATERER' SPIREA

'LITTLE PRINCESS ' SPIREA	SPIREA JAPONICA 'LITTLE PRINCESS'
'GOLDFLAME' SPIREA	SPIREA X BUMALDA 'GOLDFLAME'
'SNOWMOUND' SPIREA	SPIREA NAPPONICA 'SNOWOUND '

APPROVED ALTERNATIVE SPECIES FOR 'LIMEMOUND' SPIREA

'GOLDMOUND' SPIREA	SPIREA JAPONICA 'GOLDMOUND'
'MAGIC CARPET' SPIREA	SPIREA X BUMALDA WALBURN 'MAGIC CARPET'

TREE PROTECTION NOTES

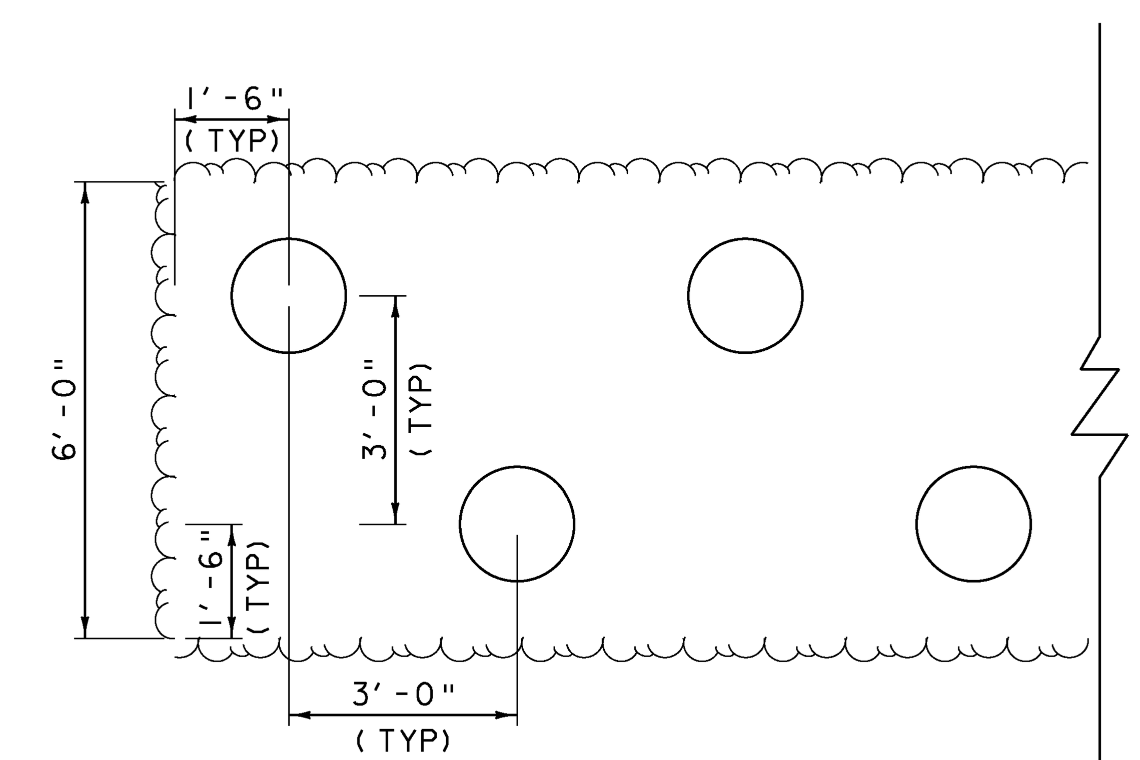
1. DURING CONSTRUCTION: PROTECT TREES TO BE SAVED BY ERECTING BARRIER FENCE JUST AT LIMIT OF CONSTRUCTION AS INDICATED (PLEASE SEE LANDSCAPE PLANS AND TREE PROTECTION DETAIL). INSTALL SIGNAGE AT EACH PROTECTION ZONE WHICH CLEARLY READS: "TREES ARE BEING PROTECTED. NO UNAUTHORIZED TRESPASS IS ALLOWED".

2. AVOID CUTTING ROOTS OF TREES WHENEVER POSSIBLE. WHEN AVOIDANCE IS NOT POSSIBLE, CUT ROOTS FLUSH (SAW THOSE ROOTS GREATER THAN 1" WIDE), WHICH WILL ENCOURAGE NEW ROOT GROWTH. DO NOT RIP ROOTS WITH EXCAVATOR OR OTHER HEAVY EQUIPMENT.

3. BACKFILL AS SOON AS POSSIBLE; KEEP ROOT ENDS MOIST WITH WET BURLAP OR SIMILAR MATERIAL UNTIL ABLE TO BACKFILL. ADD A ROOT STIMULATOR SUCH AS MYCORRHIZAL FUNGI PER MANUFACTURER'S INSTRUCTIONS, AND WATER (PER APPROVED WATERING SPECIFICATIONS) TO THE ENTIRE BACKFILL AREA WITHIN 24 HOURS.

4. NO EXCAVATED OR BACKFILL MATERIAL SHALL BE PILED IN TREE PROTECTION ZONE; NO EQUIPMENT SHALL BE STORED OR PILED IN TREE PROTECTION ZONE.

5. IF A PROTECTED TREE IS DAMAGED DUE TO THE CONTRACTOR'S NEGLIGENCE AND IS NOT REPAIRABLE (AS DETERMINED BY THE ENGINEER OR VAOT LANDSCAPE ARCHITECT), THEN THE CONTRACTOR SHALL REPLACE THE TREE (AT THE CONTRACTOR'S EXPENSE AND ACCORDING TO APPROVED PLANTING TECHNIQUES) WITH THE SAME TREE OF EQUAL VALUE, OR TWO OR MORE TREES WITH A TOTAL VALUE EQUAL TO THAT OF THE DAMAGED TREE. IN ADDITION, WITH THE EXCEPTION OF FENCING, ALL TREE PROTECTION MEASURES, ROOT PRUNING, AND OTHER MATERIALS WILL NOT BE PAID SEPARATELY, BUT WILL BE CONSIDERED INCIDENTAL TO ALL OTHER LANDSCAPING CONTRACT ITEMS.



TYPICAL SHRUB BED LAYOUT

NOT TO SCALE

PROJECT NAME:	MILTON
PROJECT NUMBER:	STP 5800 (2)

FILE NAME: t92d289landdet.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
LANDSCAPE DETAIL SHEET	SHEET 58 OF 104

646.406 - DURABLE 4" WHITE LINE, RECESSED POLYUREA
STA 100+00.00 LT - 104+00.00 LT (SOLID)
STA 100+00.00 RT - 104+00.00 RT (SOLID)
STA 103+50.00 RT - 104+00.00 RT (DOTTED)

646.416 - DURABLE 4" YELLOW LINE, RECESSED POLYUREA
STA 100+00.00 CL - 102+70.00 CL (SOLID - DOUBLE)
STA 102+70.00 LT - 104+00.00 LT (SOLID - DOUBLE)
STA 102+70.00 RT - 104+00.00 RT (SOLID - DOUBLE)

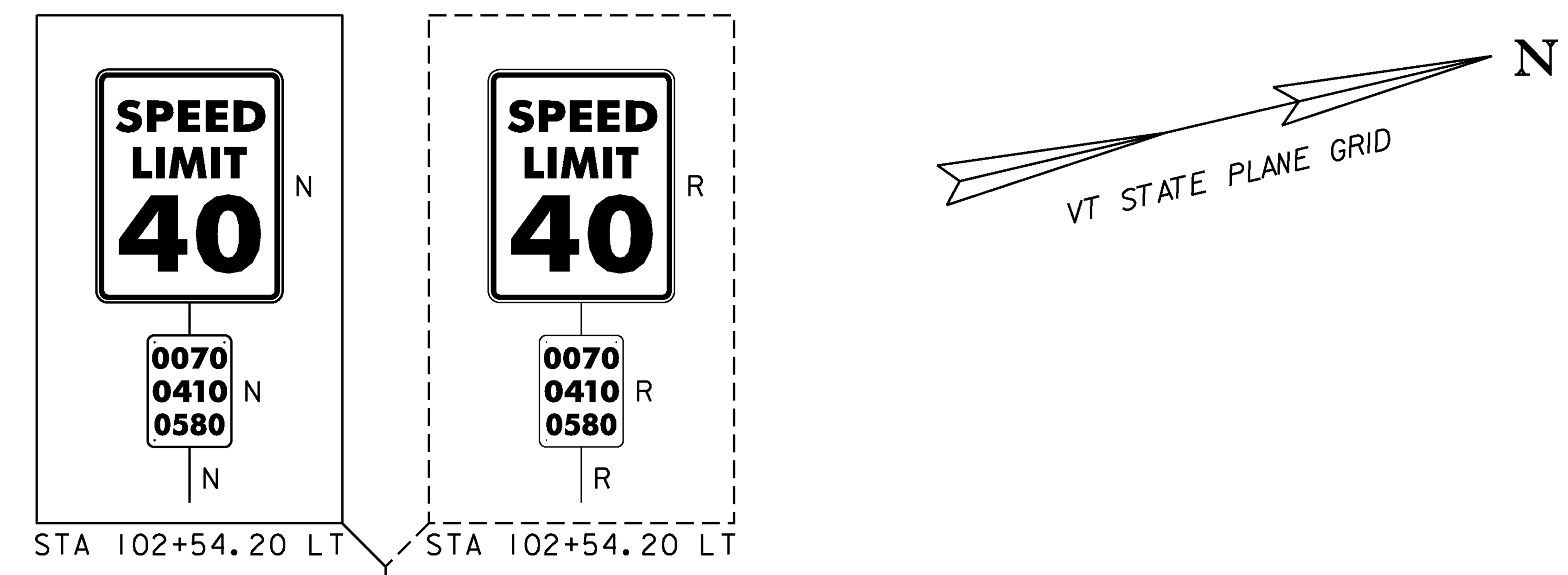
646.456 - DURABLE 8" YELLOW LINE, RECESSED POLYUREA
STA 102+90.00 LT - 102+92.97 RT (SOLID, DIAG.)
STA 103+03.53 LT - 103+08.49 RT (SOLID, DIAG.)
STA 103+17.04 LT - 103+23.99 RT (SOLID, DIAG.)
STA 103+30.34 LT - 103+39.25 RT (SOLID, DIAG.)
STA 103+43.63 LT - 103+53.83 RT (SOLID, DIAG.)
STA 103+57.18 LT - 103+66.83 RT (SOLID, DIAG.)
STA 103+70.94 LT - 103+79.84 RT (SOLID, DIAG.)
STA 103+84.72 LT - 103+92.84 RT (SOLID, DIAG.)
STA 103+98.49 LT - 104+00.00 LT (SOLID, DIAG.)

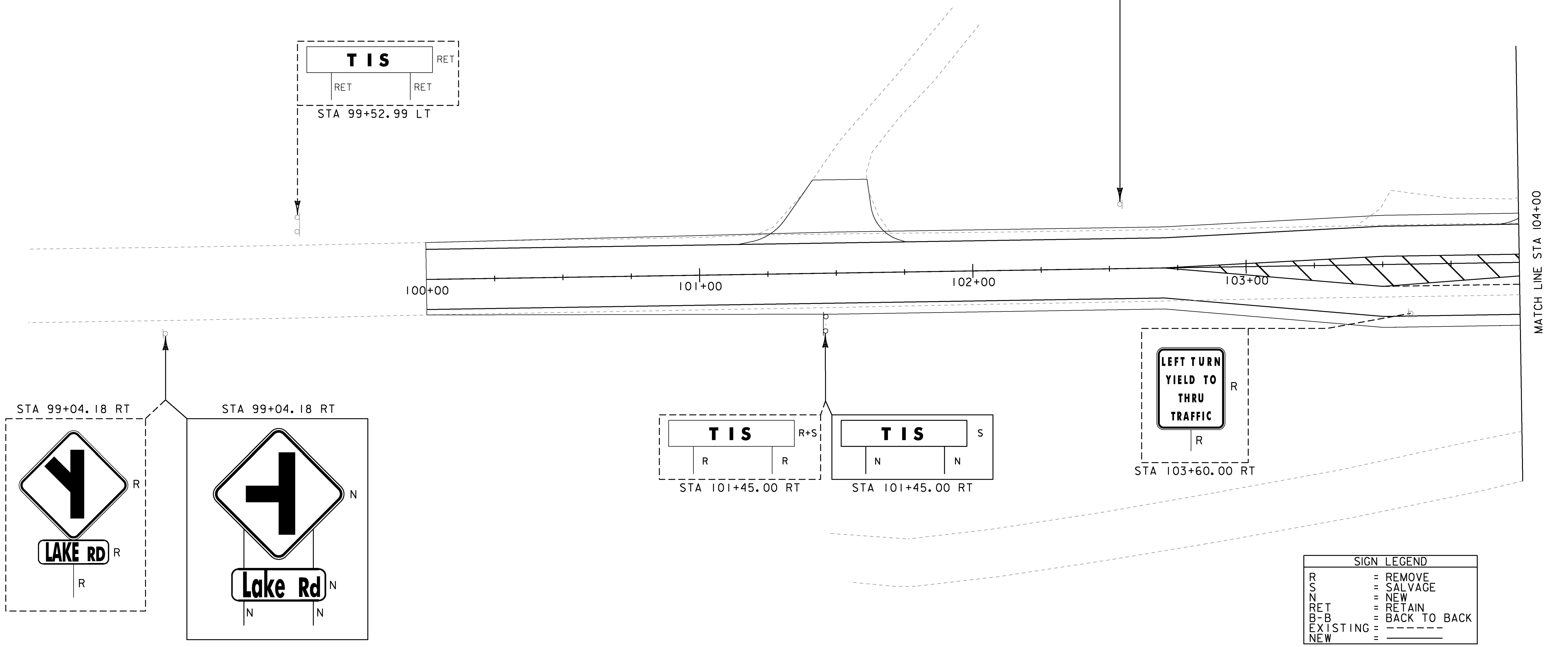
646.600 - TEMPORARY 4" WHITE LINE
STA 100+00.00 LT - 104+00.00 LT (SOLID)
STA 100+00.00 RT - 104+00.00 RT (SOLID)
STA 103+50.00 RT - 104+00.00 RT (DOTTED)

646.610 - TEMPORARY 4" YELLOW LINE
STA 100+00.00 CL - 102+70.00 CL (SOLID - DOUBLE)
STA 102+70.00 LT - 104+00.00 LT (SOLID - DOUBLE)
STA 102+70.00 RT - 104+00.00 RT (SOLID - DOUBLE)

675.50 - REMOVING SIGNS
STA 99+04.18 RT (2)
STA 101+45.00 RT
STA 102+54.20 LT (2)
STA 103+60.00 RT

675.60 - ERECTING SALVAGED SIGNS
STA 101+45.00 RT





SIGN LEGEND

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

NOTE: MATCH EXISTING PAVEMENT MARKINGS AT STA 100+00.00

0 20 40
SCALE IN FEET

PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)

FILE NAME: t92D289tspmbdr.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: D. LYMAN
TSPM LAYOUT SHEET 1

PLOT DATE: 23-FEB-2011
DRAWN BY: J. DEVLIN
CHECKED BY: J. DEVLIN

646.406 - DURABLE 4" WHITE LINE, RECESSED POLYUREA
STA 104+00.00 LT - 106+75.00 LT (SOLID)
STA 104+00.00 RT - 105+30.00 RT (DOTTED)
STA 105+30.00 RT - 107+25.00 RT (SOLID)
STA 104+00.00 RT - 105+00.00 RT (SOLID)
STA 105+50.00 RT - 110+00.00 RT (SOLID)
STA 108+32.00 LT - 110+00.00 LT (SOLID)
STA 300+13.00 LT - 302+00.00 LT (SOLID)
STA 300+13.00 RT - 302+00.00 RT (SOLID)

646.456 - DURABLE 8" YELLOW LINE, RECESSED POLYUREA
STA 104+00.00 LT - 104+05.84 RT (SOLID, DIAG.)
STA 104+12.26 LT - 104+18.84 RT (SOLID, DIAG.)
STA 104+26.03 LT - 104+31.84 RT (SOLID, DIAG.)
STA 104+39.81 LT - 104+44.85 RT (SOLID, DIAG.)
STA 104+53.58 LT - 104+57.85 RT (SOLID, DIAG.)
STA 104+67.30 LT - 104+70.86 RT (SOLID, DIAG.)
STA 104+81.13 LT - 104+83.86 LT (SOLID, DIAG.)
STA 104+94.90 LT - 104+96.86 LT (SOLID, DIAG.)
STA 107+91.50 LT - 108+02.20 RT (SOLID, DIAG.)
STA 108+05.50 LT - 108+16.20 RT (SOLID, DIAG.)
STA 108+19.50 LT - 108+29.80 RT (SOLID, DIAG.)
STA 108+35.50 LT - 108+43.00 RT (SOLID, DIAG.)
STA 108+47.50 LT - 108+56.20 RT (SOLID, DIAG.)
STA 108+61.50 LT - 108+69.40 RT (SOLID, DIAG.)
STA 108+75.50 LT - 108+82.60 RT (SOLID, DIAG.)
STA 108+89.50 LT - 108+95.80 RT (SOLID, DIAG.)
STA 109+03.50 LT - 109+09.00 RT (SOLID, DIAG.)
STA 109+17.50 LT - 109+22.20 RT (SOLID, DIAG.)
STA 109+31.50 LT - 109+35.40 RT (SOLID, DIAG.)
STA 109+45.50 LT - 109+48.60 RT (SOLID, DIAG.)
STA 109+59.50 LT - 109+61.80 RT (SOLID, DIAG.)

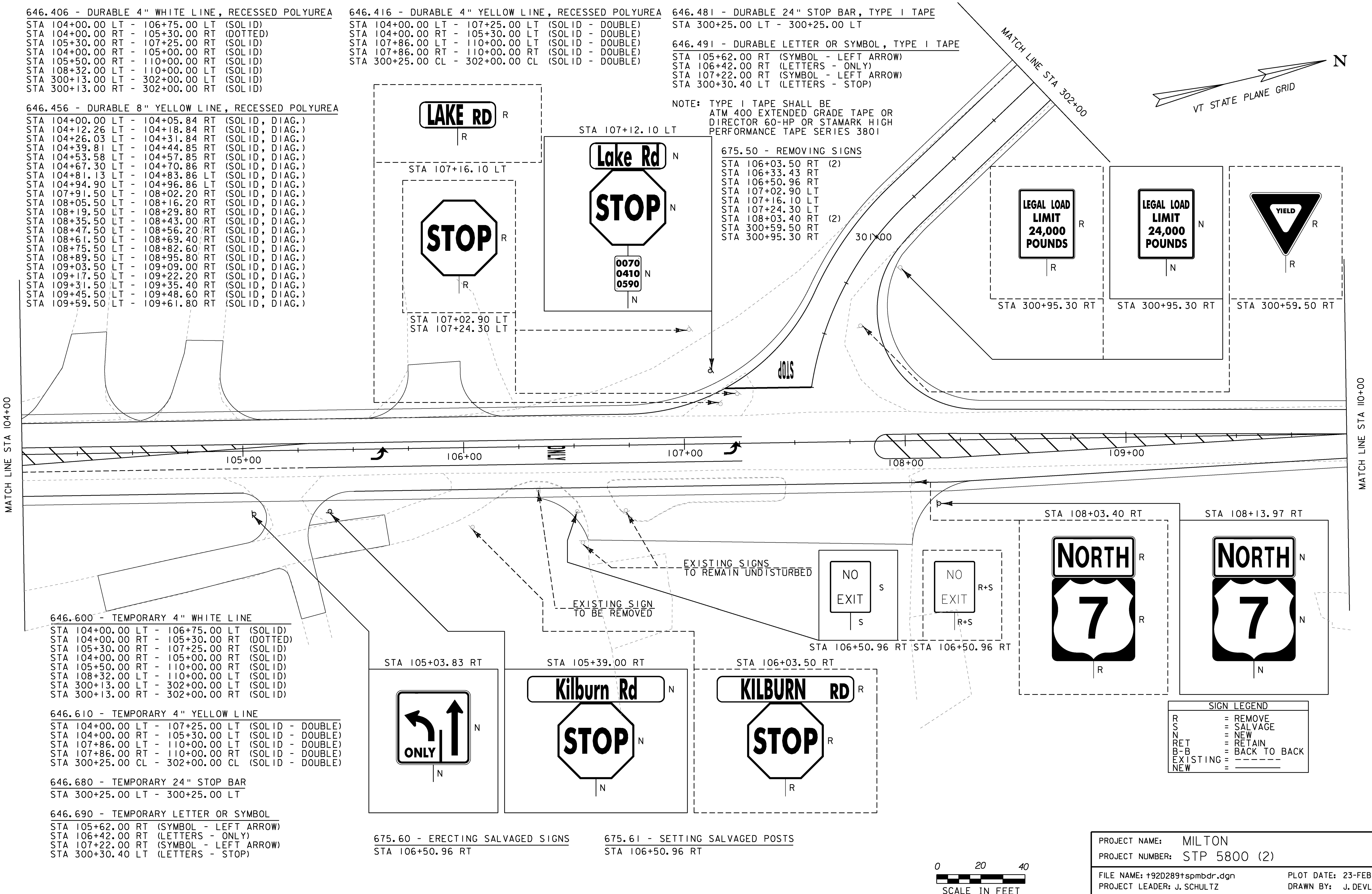
646.416 - DURABLE 4" YELLOW LINE, RECESSED POLYUREA
STA 104+00.00 LT - 107+25.00 LT (SOLID - DOUBLE)
STA 104+00.00 RT - 105+30.00 LT (SOLID - DOUBLE)
STA 107+86.00 LT - 110+00.00 LT (SOLID - DOUBLE)
STA 107+86.00 RT - 110+00.00 RT (SOLID - DOUBLE)
STA 300+25.00 CL - 302+00.00 CL (SOLID - DOUBLE)

646.481 - DURABLE 24" STOP BAR, TYPE I TAPE
STA 300+25.00 LT - 300+25.00 LT

646.491 - DURABLE LETTER OR SYMBOL, TYPE I TAPE
STA 105+62.00 RT (SYMBOL - LEFT ARROW)
STA 106+42.00 RT (LETTERS - ONLY)
STA 107+22.00 RT (SYMBOL - LEFT ARROW)
STA 300+30.40 LT (LETTERS - STOP)

NOTE: TYPE I TAPE SHALL BE ATM 400 EXTENDED GRADE TAPE OR DIRECTOR 60-HP OR STAMARK HIGH PERFORMANCE TAPE SERIES 380I

675.50 - REMOVING SIGNS
STA 106+03.50 RT (2)
STA 106+33.43 RT
STA 106+50.96 RT
STA 107+02.90 LT
STA 107+16.10 LT
STA 107+24.30 LT
STA 108+03.40 RT (2)
STA 300+59.50 RT
STA 300+95.30 RT



646.600 - TEMPORARY 4" WHITE LINE
STA 104+00.00 LT - 106+75.00 LT (SOLID)
STA 104+00.00 RT - 105+30.00 RT (DOTTED)
STA 105+30.00 RT - 107+25.00 RT (SOLID)
STA 104+00.00 RT - 105+00.00 RT (SOLID)
STA 105+50.00 RT - 110+00.00 RT (SOLID)
STA 108+32.00 LT - 110+00.00 LT (SOLID)
STA 300+13.00 LT - 302+00.00 LT (SOLID)
STA 300+13.00 RT - 302+00.00 RT (SOLID)

646.610 - TEMPORARY 4" YELLOW LINE
STA 104+00.00 LT - 107+25.00 LT (SOLID - DOUBLE)
STA 104+00.00 RT - 105+30.00 LT (SOLID - DOUBLE)
STA 107+86.00 LT - 110+00.00 LT (SOLID - DOUBLE)
STA 107+86.00 RT - 110+00.00 RT (SOLID - DOUBLE)
STA 300+25.00 CL - 302+00.00 CL (SOLID - DOUBLE)

646.680 - TEMPORARY 24" STOP BAR
STA 300+25.00 LT - 300+25.00 LT

646.690 - TEMPORARY LETTER OR SYMBOL
STA 105+62.00 RT (SYMBOL - LEFT ARROW)
STA 106+42.00 RT (LETTERS - ONLY)
STA 107+22.00 RT (SYMBOL - LEFT ARROW)
STA 300+30.40 LT (LETTERS - STOP)

675.60 - ERECTING SALVAGED SIGNS
STA 106+50.96 RT

675.61 - SETTING SALVAGED POSTS
STA 106+50.96 RT

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289tspmbdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
TSPM LAYOUT SHEET 2	SHEET 60 OF 104

646.406 - DURABLE 4" WHITE LINE, RECESSED POLYUREA
STA 110+00.00 LT - 111+50.00 LT (SOLID)
STA 110+00.00 RT - 111+50.00 RT (SOLID)

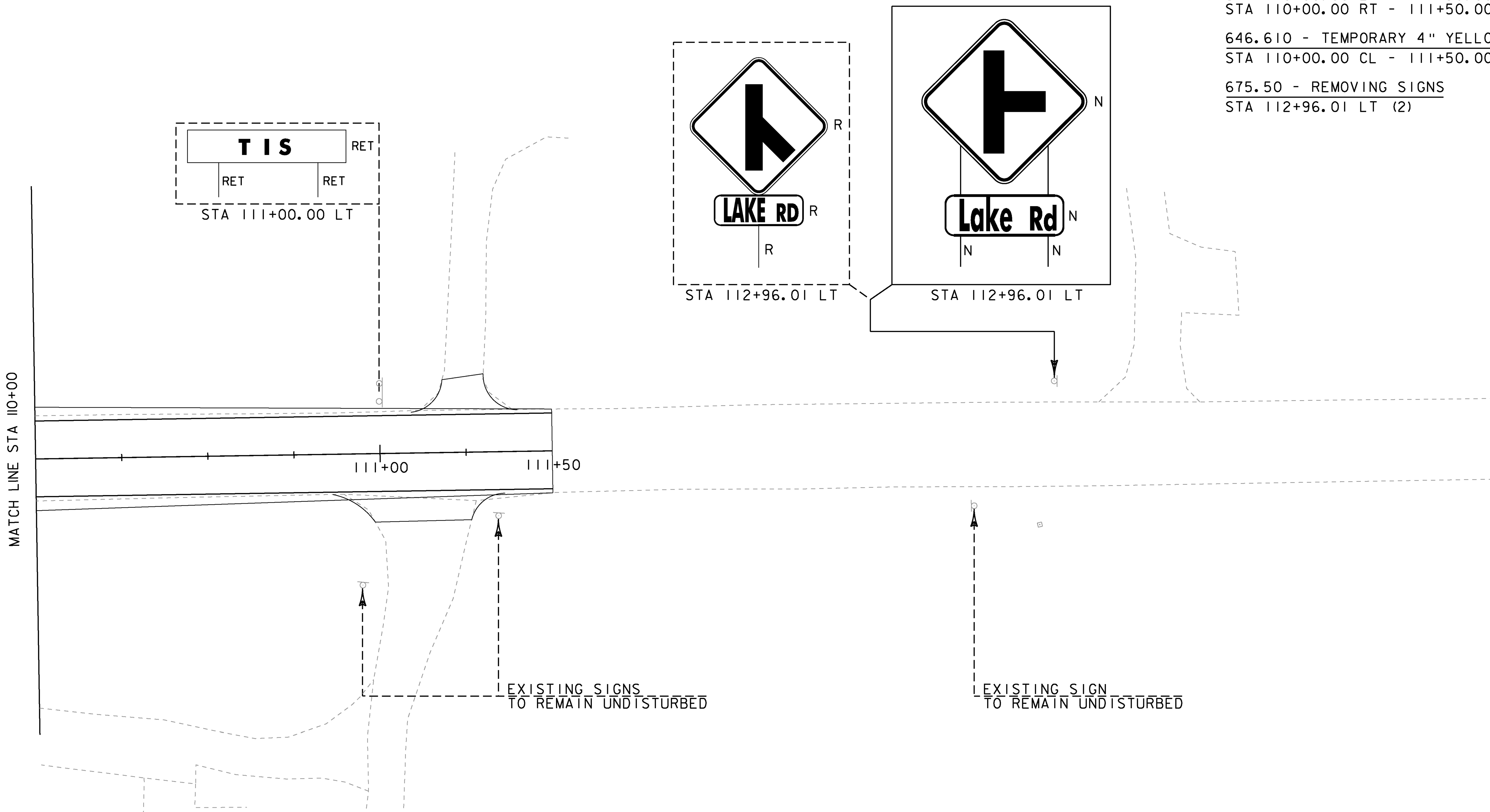
646.416 - DURABLE 4" YELLOW LINE, RECESSED POLYUREA
STA 110+00.00 CL - 111+50.00 CL (SOLID - DOUBLE)

646.600 - TEMPORARY 4" WHITE LINE
STA 110+00.00 LT - 111+50.00 LT (SOLID)
STA 110+00.00 RT - 111+50.00 RT (SOLID)

646.610 - TEMPORARY 4" YELLOW LINE
STA 110+00.00 CL - 111+50.00 CL (SOLID - DOUBLE)

675.50 - REMOVING SIGNS
STA 112+96.01 LT (2)

N
VT STATE PLANE GRID



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

NOTE: MATCH EXISTING PAVEMENT MARKINGS AT STA 111+50.00

0 20 40
SCALE IN FEET

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289tspmbdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
TSPM LAYOUT SHEET 3	SHEET 61 OF 104

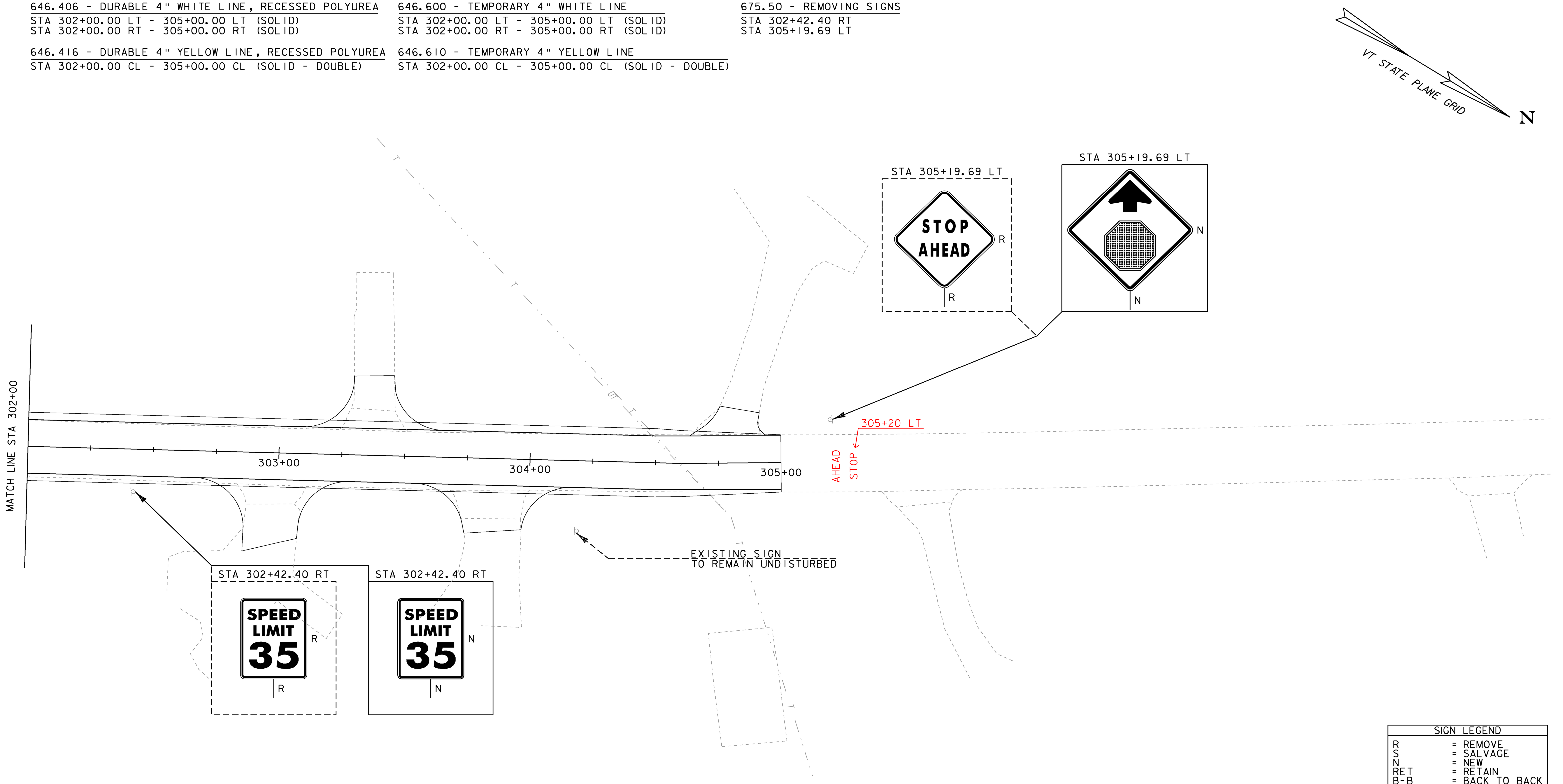
646.406 - DURABLE 4" WHITE LINE, RECESSED POLYUREA
STA 302+00.00 LT - 305+00.00 LT (SOLID)
STA 302+00.00 RT - 305+00.00 RT (SOLID)

646.416 - DURABLE 4" YELLOW LINE, RECESSED POLYUREA
STA 302+00.00 CL - 305+00.00 CL (SOLID - DOUBLE)

646.600 - TEMPORARY 4" WHITE LINE
STA 302+00.00 LT - 305+00.00 LT (SOLID)
STA 302+00.00 RT - 305+00.00 RT (SOLID)

646.610 - TEMPORARY 4" YELLOW LINE
STA 302+00.00 CL - 305+00.00 CL (SOLID - DOUBLE)

675.50 - REMOVING SIGNS
STA 302+42.40 RT
STA 305+19.69 LT



SIGN LEGEND

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

NOTE: MATCH EXISTING PAVEMENT MARKINGS AT STA 305+00.00

0 20 40
SCALE IN FEET

PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)

FILE NAME: t92D289tspmbdr.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: D. LYMAN
TSPM LAYOUT SHEET 4

PLOT DATE: 23-FEB-2011
DRAWN BY: J. DEVLIN
CHECKED BY: J. DEVLIN
SHEET 62 OF 104

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	SIGN DIMENSIONS WIDTH (in)	SIGN DIMENSIONS HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NO. OF POSTS	NEW SIGN POSTS (OPTION ITEMS): FLANGED CHANNEL 1.12 lb/ft	FLANGED CHANNEL 2.0 lb/ft	FLANGED CHANNEL 3.0 lb/ft	SQUARE STEEL (in) 1.75 (1.88 lb/ft)	SQUARE STEEL 2.0 (2.42 lb/ft)	SQUARE STEEL 2.5 (3.35 lb/ft)	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) 3.0 (1.3 lb/ft)	TUBULAR ALUMINUM 4.0 (1.7 lb/ft)	TUBULAR ALUMINUM 4.0 MOD (1.7 lb/ft)	FOUNDATION	TUBULAR STEEL Ø (in) 3.0 (7.6 lb/ft)	TUBULAR STEEL 3.5 (9.0 lb/ft)	TUBULAR STEEL 4.0 (10.8 lb/ft)	TUBULAR STEEL 5.0 (14.6 lb/ft)	W-SHAPE STEEL FTG. SIZE 24"	W-SHAPE STEEL FTG. SIZE 30"	W-SHAPE STEEL WEIGHT	W-SHAPE STEEL POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	SIGN DETAIL: STD. SHEET NUMBER
99+04.18 RT.		1	36	36	9.00						2					35.0 ~~30.0~~		X															SIDE ROAD WARNING SIGN MUTCD W2-2L TO BE MOUNTED ON 2 POSTS WITH LAKE ROAD SIGN MOUNTED BELOW ON SAME POSTS		SHSM
99+04.18 RT.	Lake Rd	1	24	8	1.33																												LAKE ROAD SIGN MUTCD W16-8P MOUNTED ON SAME POSTS AS SIDE ROAD WARNING SIGN	65	N/A
101+45.00 RT.	TIS	1						1			2					30.0		X															SALVAGED TIS SIGN SHALL BE MOUNTED ON NEW POSTS NO FEDERAL PARTICIPATION		E-125
102+55 ~~54.20~~ LT.	SPEED LIMIT 40	1	24	30	5.00						1					14.25 ~~15.0~~		X															SPEED LIMIT SIGN MUTCD R2-1 SHALL BE MOUNTED ON SAME POST AS MILEMARKER SIGN		SHSM
102+55 ~~54~~.20 LT.	0070 0410 0580	1	6	10	.42																												MILEMARKER SIGN SHALL BE MOUNTED ON SAME POST AS SPEED LIMIT SIGN		E-138
105+03.83 RT.	ONLY	1	30	30	6.25						1					14.0 ~~15.0~~		X															MUTCD R3-8		SHSM
105+39.00 RT.	Kilburn Rd	1	36	12	3.00																												KILBURN ROAD SIGN TO BE AND MOUNTED ON SAME POST AS STOP SIGN	65	N/A
105+39.00 RT.	STOP	1	30	30	6.25						1					14.0 ~~15.0~~		X															STOP SIGN MUTCD R1-1 SHALL BE MOUNTED ON SAME POST AS KILBURN ROAD SIGN		SHSM
106+50.96 RT.	NO EXIT	1					1			1																									
107+12.10 LT.	Lake Rd	1	30	12	2.50																												LAKE ROAD SIGN SHALL BE MOUNTED ON SAME POST AS STOP SIGN AND MILE MARKER SIGN	65	N/A
107+12.10 LT.	STOP	1	30	30	6.25						1					13.25 ~~15.0~~		X															STOP SIGN MUTCD R1-1 SHALL BE MOUNTED ON SAME POST AS LAKE ROAD SIGN AND MILE MARKER SIGN		SHSM
107+12.10 LT.	0070 0410 0590	1	6	10	.42																												MILEMARKER SIGN SHALL BE MOUNTED ON SAME POST AS STOP SIGN AND LAKE ROAD SIGN		E-138
108+50.00 ~~13.97~~ RT.	NORTH	1	24	12	2.00																												NORTH MARKER MUTCD M3-1 SHALL BE MOUNTED ON SAME POST AS US 7 ROUTE MARKER		SHSM
108+50.00 ~~13.97~~ RT.	7	1	24	24	4.00						1					14.0 ~~15.0~~		X															US 7 ROUTE MARKER MUTCD M1-4 SHALL BE MOUNTED ON SAME POST AS NORTH MARKER		SHSM
												FT	FT	FT	FT	FT ~~135~~ 104.50	FT		EA	LB	LB	LB		LB	LB	LB	LB								
TOTALS					SF 46.42	SF	EA. 1	EA. 1				FT			FT 135					LB			EA.	LB				EA.	EA.	LB					

SHSM = 2010 FHWA'S STANDARD HIGHWAY SIGNS & MARKINGS

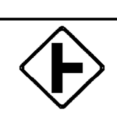
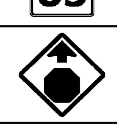
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)

FILE NAME: t92D289tssum.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: D. LYMAN
TRAFFIC SIGN SUMMARY SHEET 1
PLOT DATE: 23-FEB-2011
DRAWN BY: J. DEVLIN
CHECKED BY: J. DEVLIN

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	SIGN DIMENSIONS WIDTH (in)	SIGN DIMENSIONS HEIGHT (in)	NEW & SALVAGED SIGNS "A"	NEW & SALVAGED SIGNS "B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NO. OF POSTS	NEW SIGN POSTS: FLANGED CHANNEL lb/ft 1.12	FLANGED CHANNEL 2.0	FLANGED CHANNEL 3.0	SQUARE STEEL (in) 1.75 (lb/ft 1.88)	SQUARE STEEL 2.0 (2.42)	SQUARE STEEL 2.5 (3.35)	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) 3.0 (lb/ft 1.3)	TUBULAR ALUMINUM 4.0 (1.7)	TUBULAR ALUMINUM 4.0 MOD (1.7)	FOUNDATION	TUBULAR STEEL Ø (in) 3.0 (lb/ft 7.6)	TUBULAR STEEL 3.5 (9.0)	TUBULAR STEEL 4.0 (10.8)	TUBULAR STEEL 5.0 (14.6)	W-SHAPE STEEL FTG. SIZE 24"	W-SHAPE STEEL FTG. SIZE 30"	W-SHAPE STEEL WEIGHT	W-SHAPE STEEL POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	SIGN DETAIL: STD. SHEET NUMBER
												OPTION ITEMS																							
112+96.01 LT.		1	36	36	9.00						2					24.0 ~~30.0~~		X															SIDE ROAD WARNING SIGN MUTCD W2-2R TO BE MOUNTED ON 2 POSTS WITH LAKE ROAD SIGN MOUNTED BELOW ON SAME POSTS		SHSM
112+96.01 LT.		1	24	8	1.33																												LAKE ROAD SIGN MUTCD W16-8P MOUNTED ON SAME POSTS AS SIDE ROAD WARNING SIGN	65	N/A
300+95.30 RT		1	24	30	5.00						1					10.75 ~~15.0~~		X															VR-017		E-141
302+42.40 RT.		1	24	30	5.00						1					12.75 ~~15.0~~		X															MUTCD R2-1		SHSM
305+~~19.69~~ 10.00 RT.		1	30	30	6.25						1					14.0 ~~15.0~~		X															MUTCD W3-1		SHSM
	TSS SHEET 1 TOTALS				46.42		1	1		1						104.5 ~~135~~																			
	TSS SHEET 2 TOTALS				26.58											61.5 ~~75~~																			
		FT	FT	FT	FT	FT 210	FT		EA	LB	LB	LB		LB	LB	LB	LB																		
	TOTALS	SF 73.00	SF	EA. 1	EA. 1		FT	FT ~~210~~ 166	LB	EA.	LB	EA.	EA.	LB																					

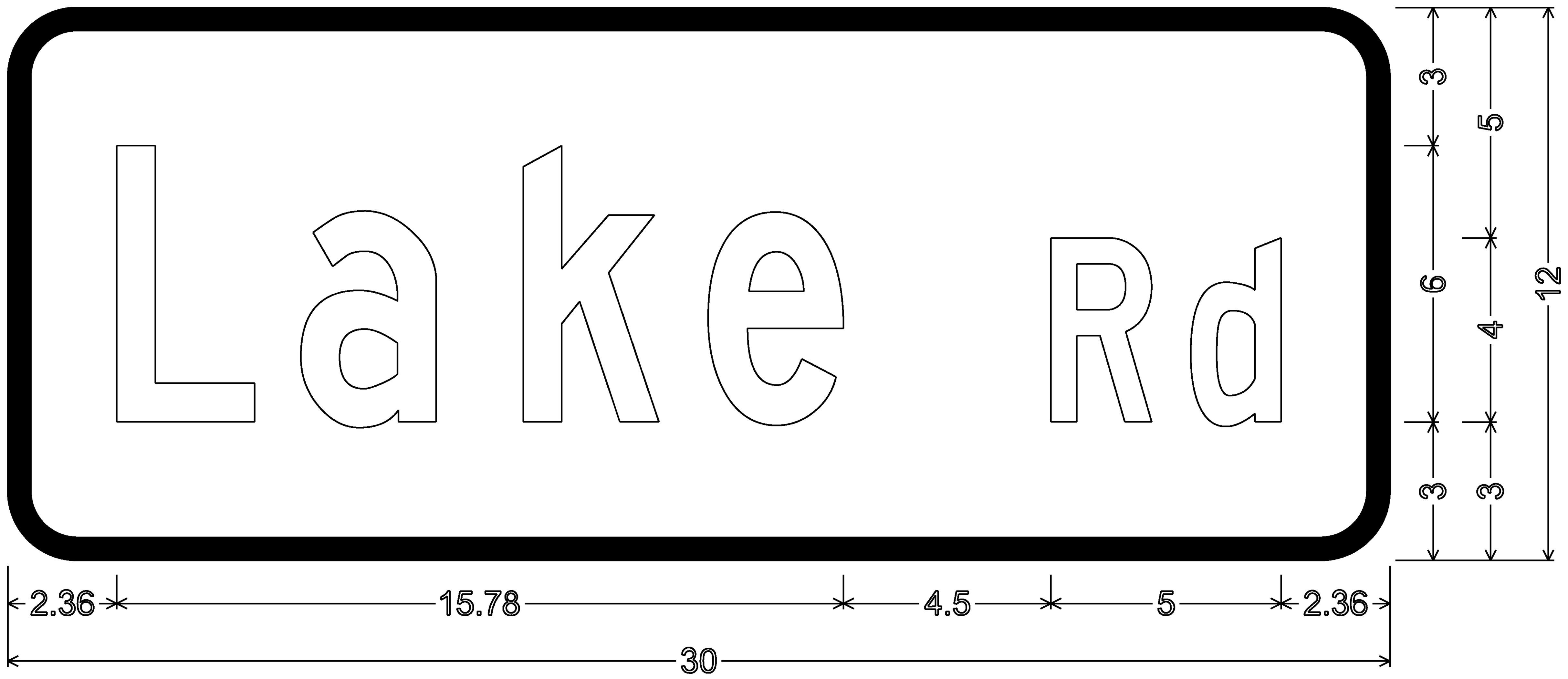
SHSM = 2010 FHWA'S STANDARD HIGHWAY SIGNS & MARKINGS

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

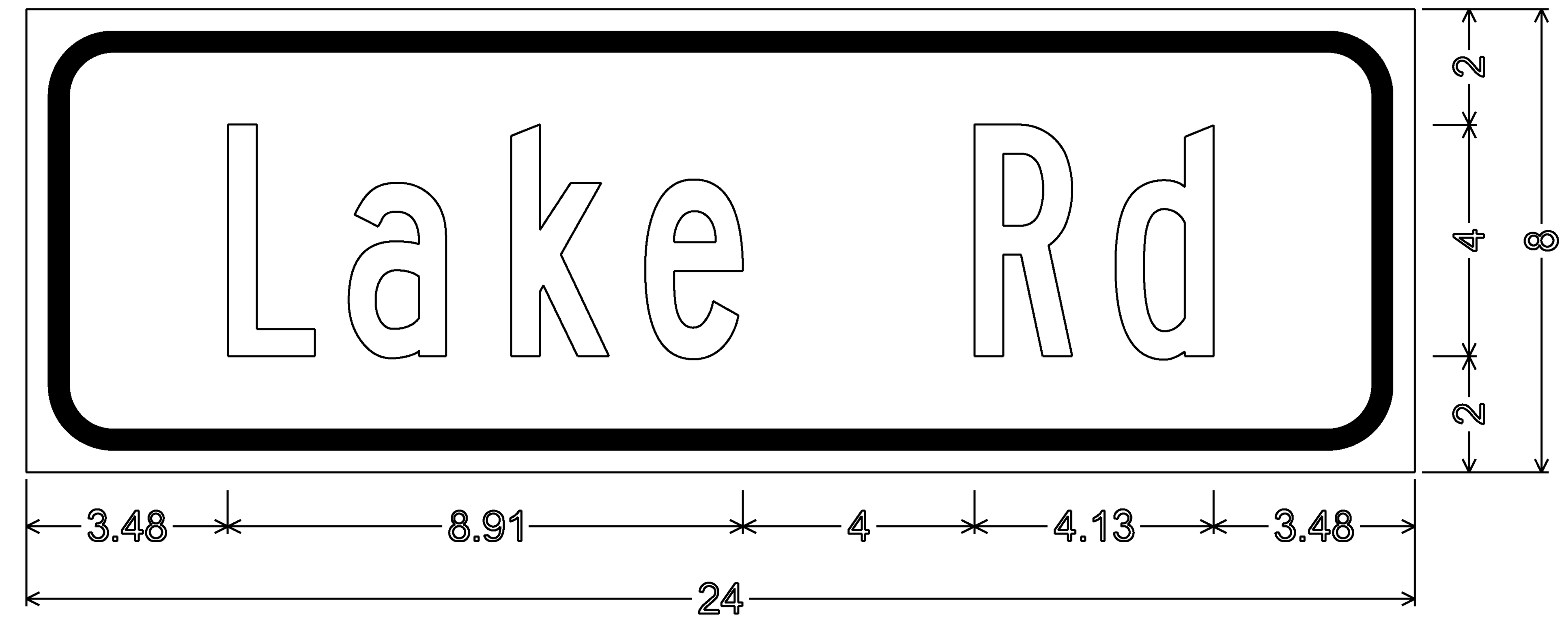
PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)

FILE NAME: t92D289tssum.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: D. LYMAN
TRAFFIC SIGN SUMMARY SHEET 2

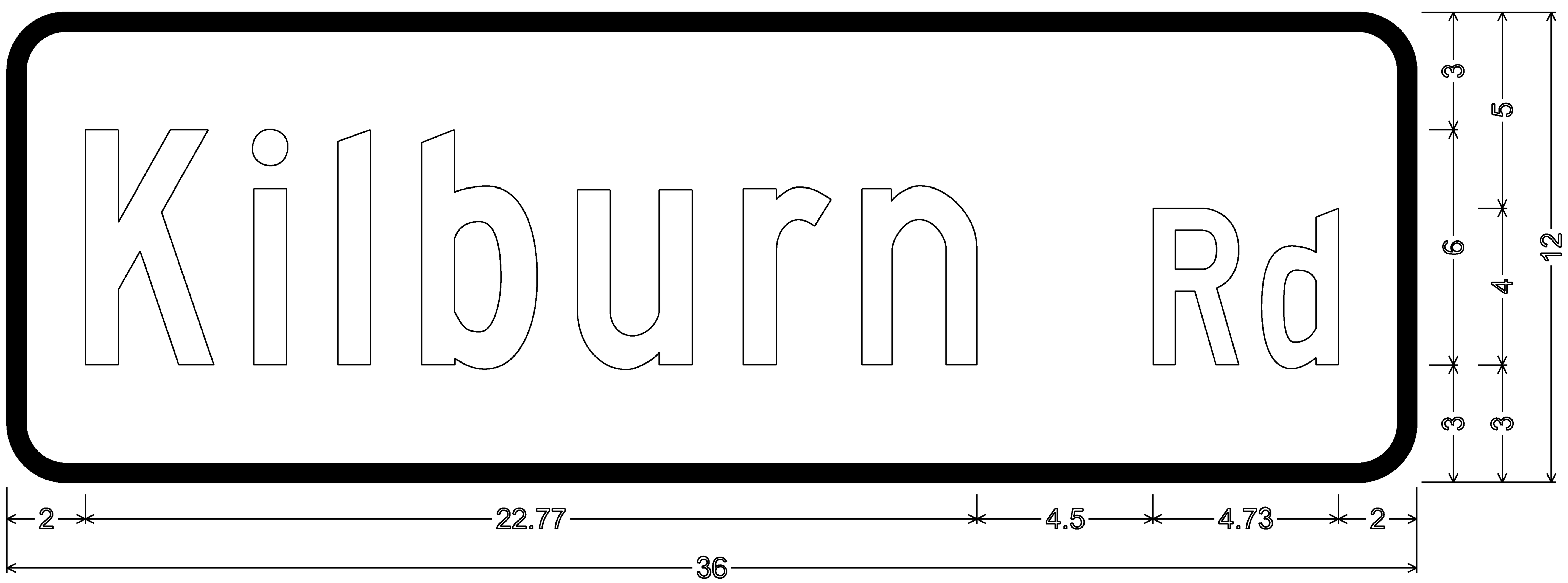
PLOT DATE: 23-FEB-2011
DRAWN BY: J. DEVLIN
CHECKED BY: J. DEVLIN



1.50" Radius, 0.50" Border, White on Green;
"Lake Rd" C;



1.50" Radius, 0.38" Border, 0.38" Indent, Black on Yellow;
"Lake Rd" B;



1.50" Radius, 0.50" Border, White on Green;
"Kilburn Rd" C specified length;

NOTE: ALL DIMENSIONS IN INCHES
NOT TO SCALE

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289tssum.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
TRAFFIC SIGN DETAIL SHEET	SHEET 65 OF 104

NOTES:

1. TRAFFIC CONTROL PHASE 1 CONSISTS OF WIDENING EASTERLY OFF OF US ROUTE 7, EXTENDING FROM THE EXISTING SHOULDER TO THE PROPOSED EDGE OF PAVEMENT. REFER TO MUTCD FIGURE 6H-10. LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS (TYPICAL APPLICATION 10).

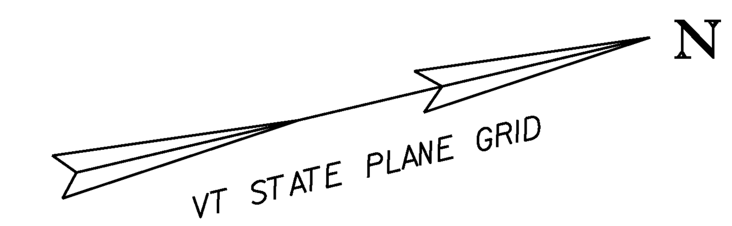
2. TEMPORARY LANE AND/OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS. US ROUTE 7 AND LAKE ROAD SHALL BE RESTORED TO FULL CAPACITY AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.

3. ADDITIONAL TRAFFIC CONTROL WARNING SIGNS MAY BE REQUIRED AND SHALL BE INSTALLED AS REQUESTED BY THE RESIDENT ENGINEER PER THE MUTCD. PAYMENT FOR THESE SIGNS, THE REFLECTORIZED PLASTIC DRUMS, ETC., SHALL BE PAID UNDER CONTRACT ITEM 641.10.

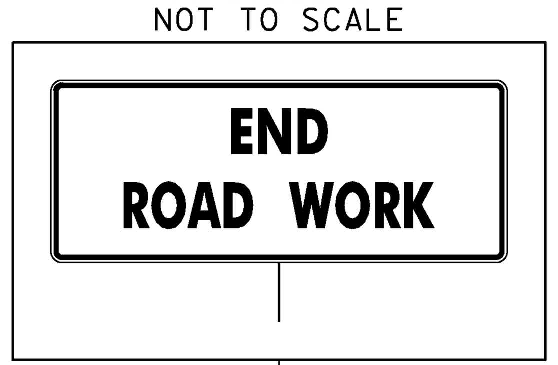
4. ACCESS TO RESIDENTIAL DRIVES, COMMERCIAL DRIVES, AND TOWN HIGHWAYS SHALL BE MAINTAINED THROUGHOUT THE PROJECT'S DURATION. CONSTRUCTION OF MINOR SIDE ROADS AS WELL AS DRIVEWAYS SHALL TAKE PLACE DURING THE ADJACENT CONSTRUCTION PHASE.

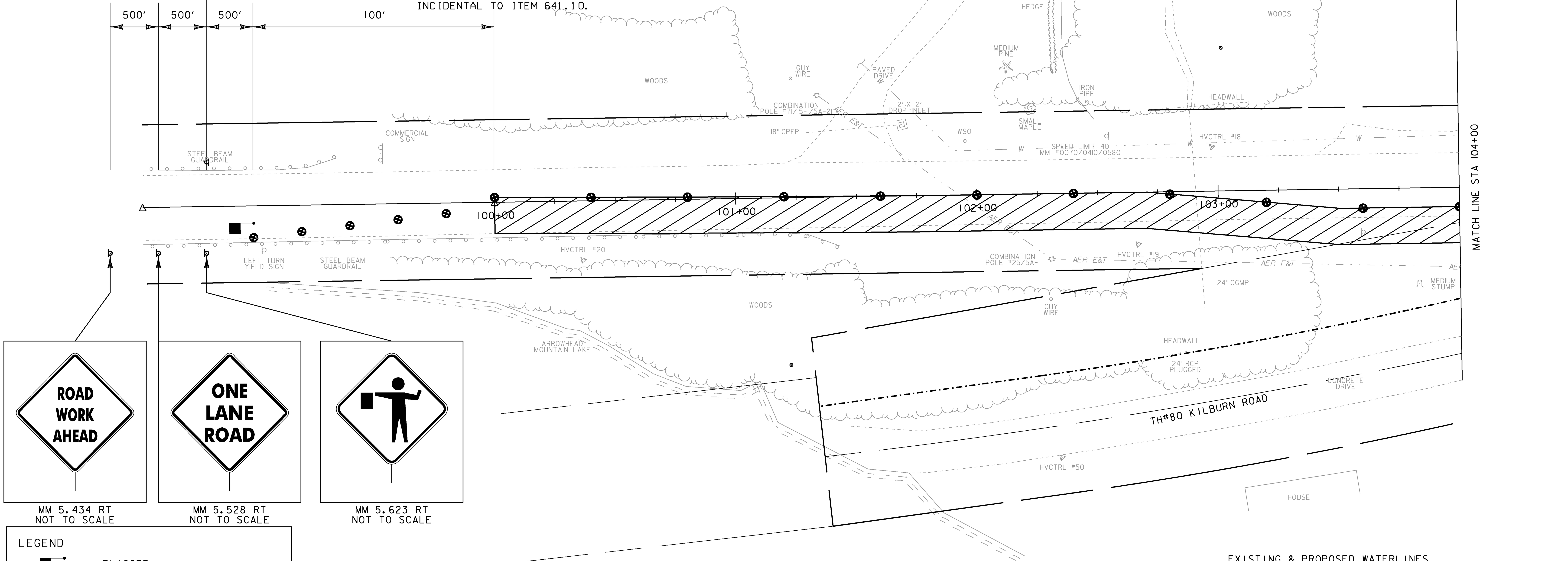
5. SIGNS SHALL BE COVERED OR REMOVED WHEN NOT APPLICABLE.

6. ADDITIONAL DENSE GRADED CRUSHED STONE MAY BE REQUIRED TO RESTORE ROADWAY TO FULL CAPACITY AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES AND SHALL BE CONSIDERED INCIDENTAL TO ITEM 641.10.



MM 5.623 LT
NOT TO SCALE





MM 5.434 RT
NOT TO SCALE

MM 5.528 RT
NOT TO SCALE

MM 5.623 RT
NOT TO SCALE

LEGEND

- FLAGGER
- CHANNELIZING DEVICE
- PHASE 1 CONSTRUCTION ZONE

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

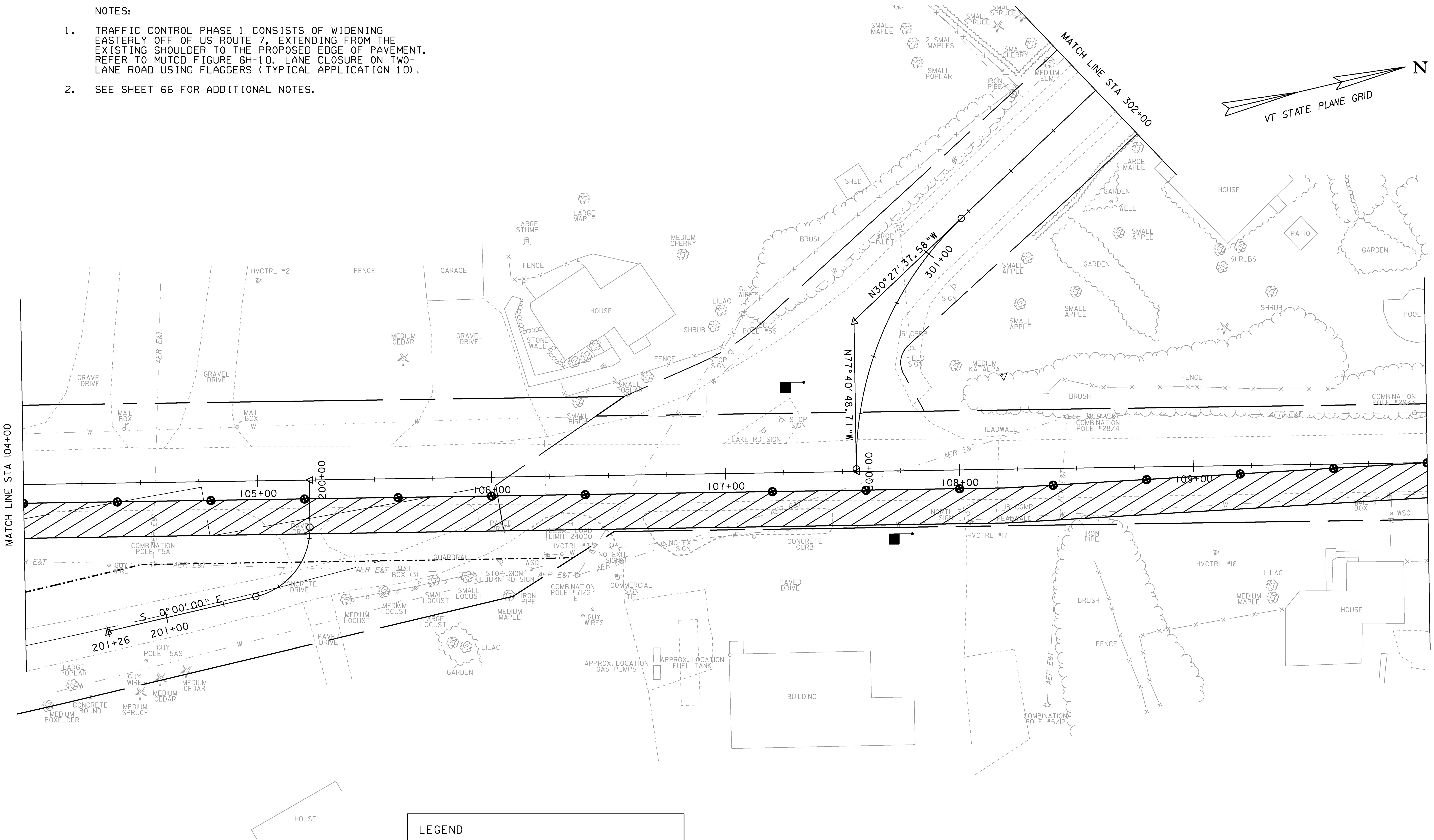
0 20 40
SCALE IN FEET

PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)

FILE NAME: t92D289tcplbdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
TC PHASE 1 LAYOUT SHEET 1	SHEET 66 OF 104

NOTES:

1. TRAFFIC CONTROL PHASE 1 CONSISTS OF WIDENING EASTERLY OFF OF US ROUTE 7, EXTENDING FROM THE EXISTING SHOULDER TO THE PROPOSED EDGE OF PAVEMENT. REFER TO MUTCD FIGURE 6H-10. LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS (TYPICAL APPLICATION 10).
2. SEE SHEET 66 FOR ADDITIONAL NOTES.



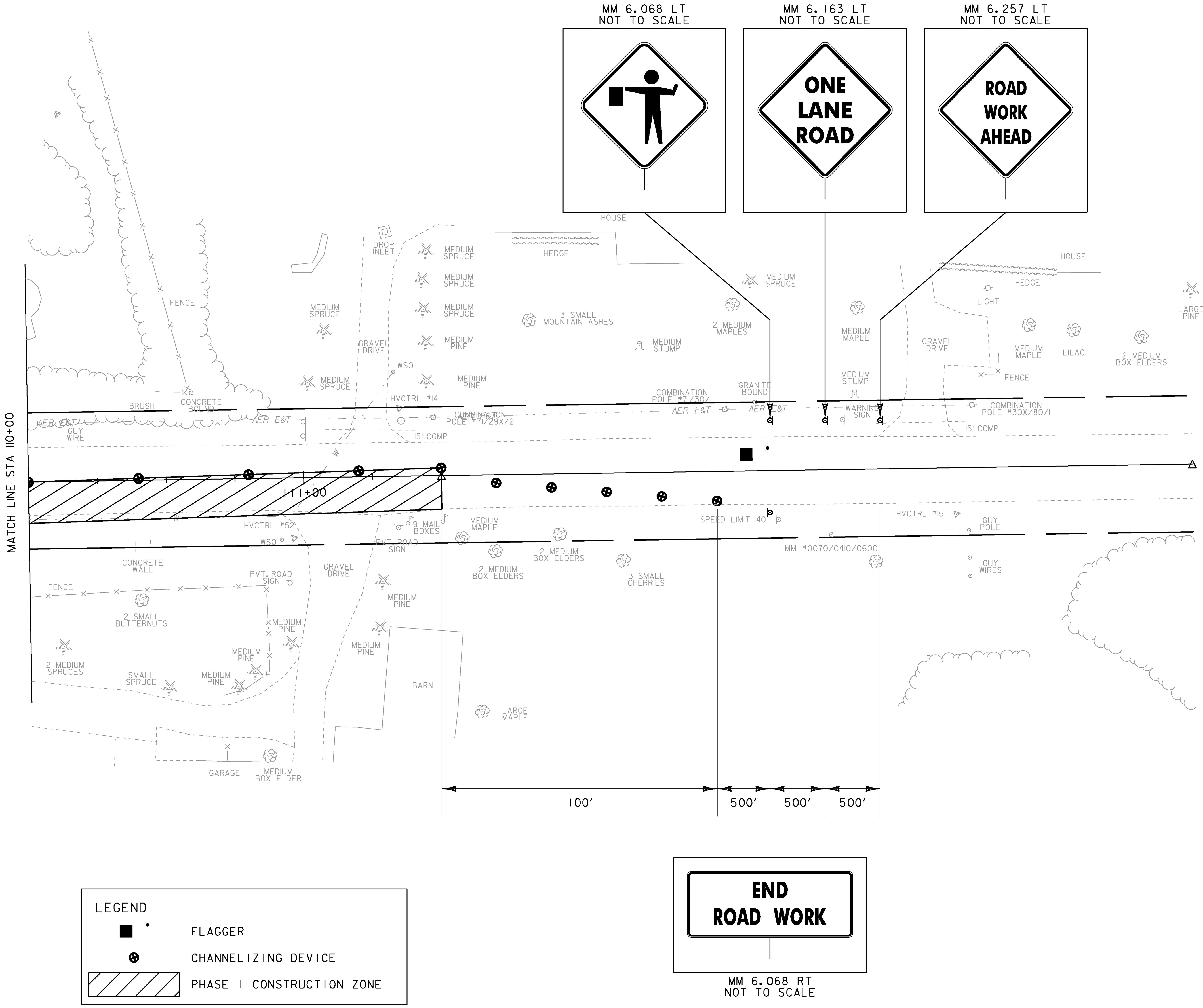
EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

LEGEND

- FLAGGER
- CHANNELIZING DEVICE
- PHASE I CONSTRUCTION ZONE

0 20 40
SCALE IN FEET

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289tcplbdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
TC PHASE I LAYOUT SHEET 2	SHEET 67 OF 104



VT STATE PLANE GRID
N

NOTES:

1. TRAFFIC CONTROL PHASE 1 CONSISTS OF WIDENING EASTERLY OFF OF US ROUTE 7, EXTENDING FROM THE EXISTING SHOULDER TO THE PROPOSED EDGE OF PAVEMENT. REFER TO MUTCD FIGURE 6H-10. LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS (TYPICAL APPLICATION 10).

2. SEE SHEET 66 FOR ADDITIONAL NOTES.

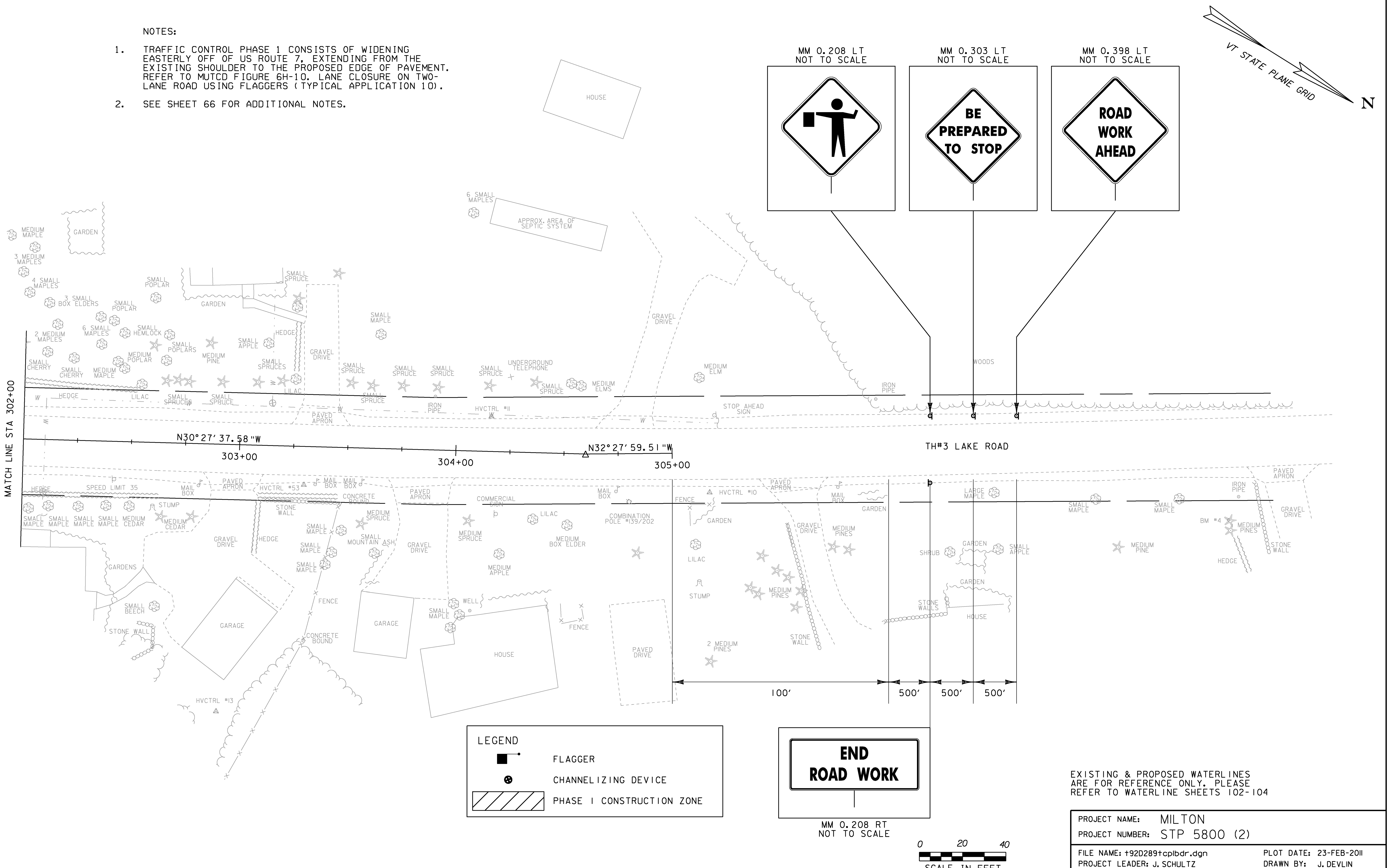
EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

0 20 40
SCALE IN FEET

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289tcp1bdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
TC PHASE 1 LAYOUT SHEET 3	SHEET 68 OF 104

NOTES:

1. TRAFFIC CONTROL PHASE 1 CONSISTS OF WIDENING EASTERLY OFF OF US ROUTE 7, EXTENDING FROM THE EXISTING SHOULDER TO THE PROPOSED EDGE OF PAVEMENT. REFER TO MUTCD FIGURE 6H-10. LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS (TYPICAL APPLICATION 10).
2. SEE SHEET 66 FOR ADDITIONAL NOTES.



LEGEND

■	FLAGGER
⊛	CHANNELIZING DEVICE
▨	PHASE I CONSTRUCTION ZONE

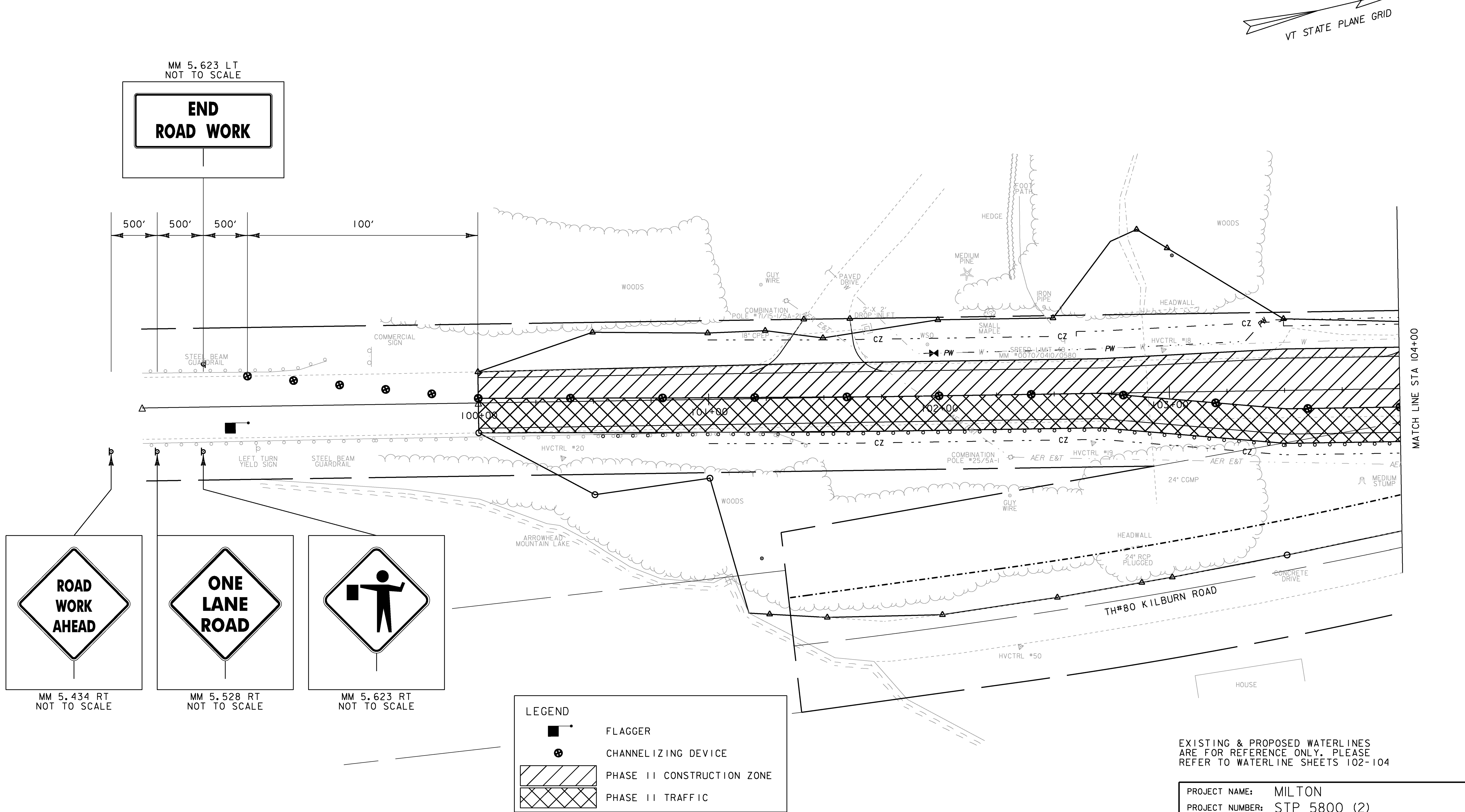
EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289tcplbdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
TC PHASE I LAYOUT SHEET 4	SHEET 69 OF 104

NOTES:

1. TRAFFIC CONTROL PHASE 2 CONSISTS OF TEMPORARY ONE WAY TRAFFIC ON US ROUTE 7 AND LAKE ROAD. REFER TO MUTCD FIGURE 6H-10. LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS (TYPICAL APPLICATION 10).

2. SEE SHEET 66 FOR ADDITIONAL NOTES.



EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

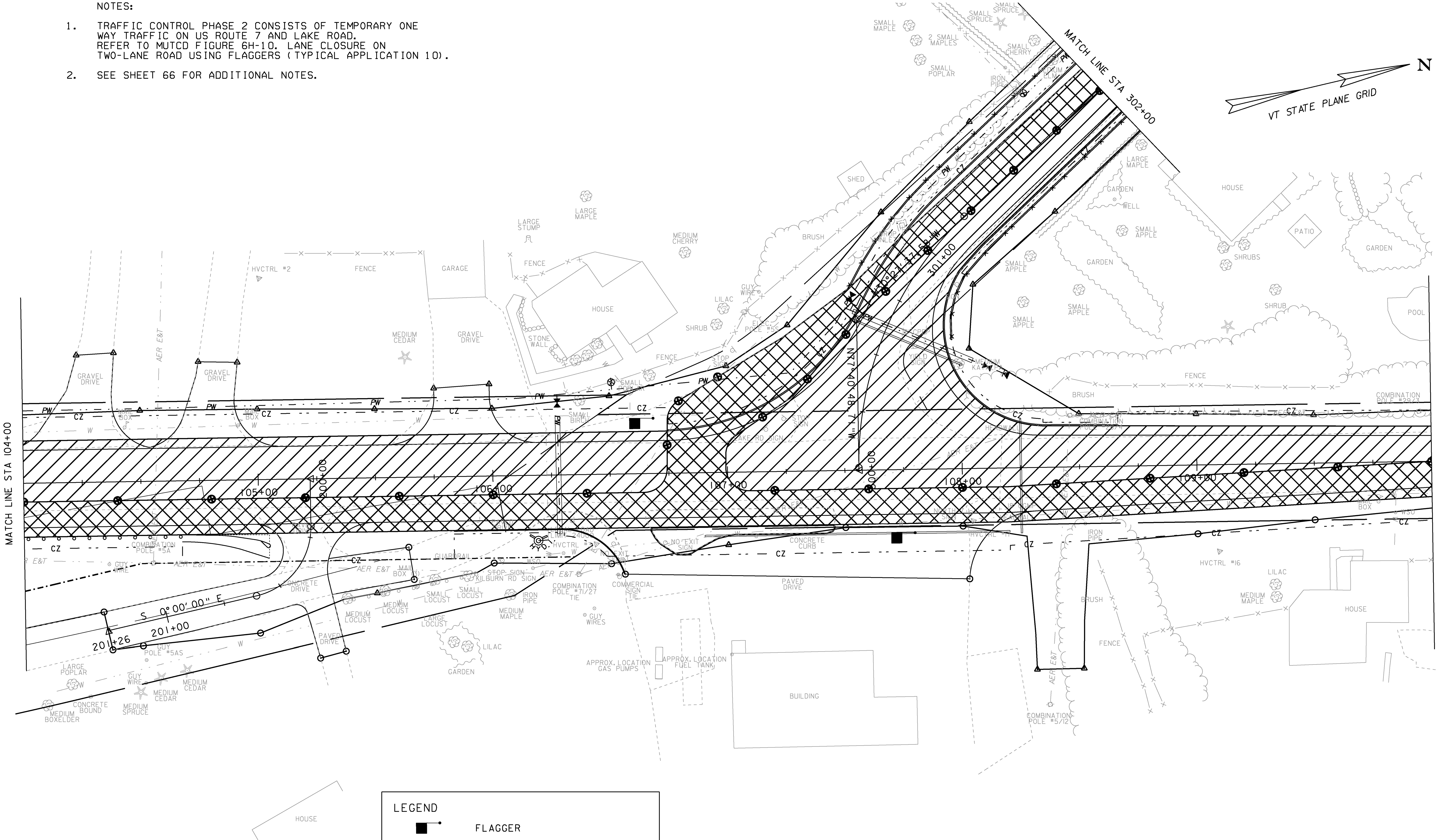
0 20 40
SCALE IN FEET

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289tcp2bdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
TC PHASE 2 LAYOUT SHEET 1	SHEET 70 OF 104

NOTES:

1. TRAFFIC CONTROL PHASE 2 CONSISTS OF TEMPORARY ONE WAY TRAFFIC ON US ROUTE 7 AND LAKE ROAD. REFER TO MUTCD FIGURE 6H-10. LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS (TYPICAL APPLICATION 10).

2. SEE SHEET 66 FOR ADDITIONAL NOTES.



LEGEND

FLAGGER

CHANNELIZING DEVICE

PHASE II CONSTRUCTION ZONE

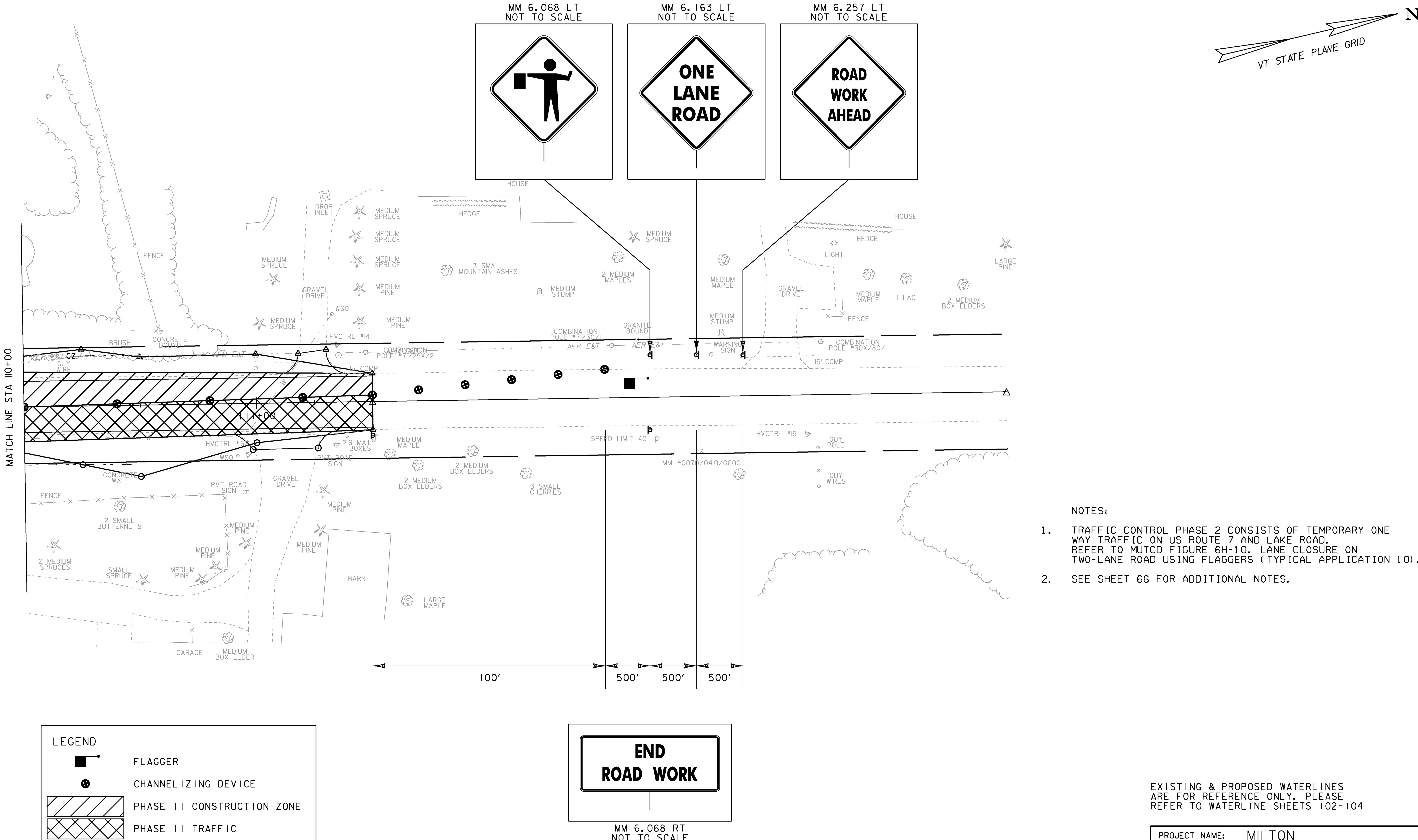
PHASE II TRAFFIC

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

0 20 40

SCALE IN FEET

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289tcp2bdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
TC PHASE 2 LAYOUT SHEET 2	SHEET 71 OF 104



NOTES:

1. TRAFFIC CONTROL PHASE 2 CONSISTS OF TEMPORARY ONE WAY TRAFFIC ON US ROUTE 7 AND LAKE ROAD. REFER TO MUTCD FIGURE 6H-10. LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS (TYPICAL APPLICATION 10).
2. SEE SHEET 66 FOR ADDITIONAL NOTES.

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

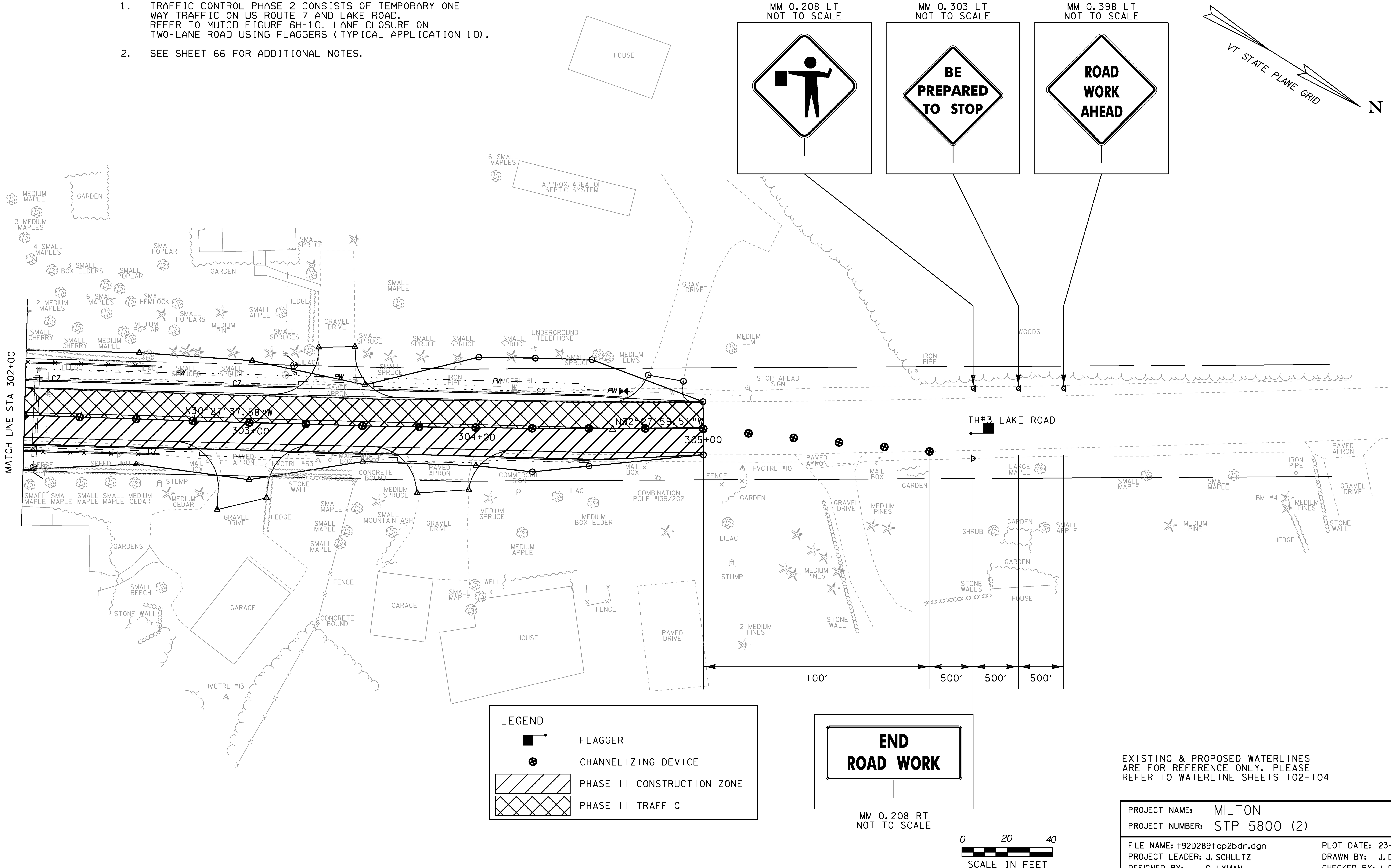
0 20 40
SCALE IN FEET

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289tcp2bdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
TC PHASE 2 LAYOUT SHEET 3	SHEET 72 OF 104

NOTES:

1. TRAFFIC CONTROL PHASE 2 CONSISTS OF TEMPORARY ONE WAY TRAFFIC ON US ROUTE 7 AND LAKE ROAD. REFER TO MUTCD FIGURE 6H-10. LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS (TYPICAL APPLICATION 10).

2. SEE SHEET 66 FOR ADDITIONAL NOTES.



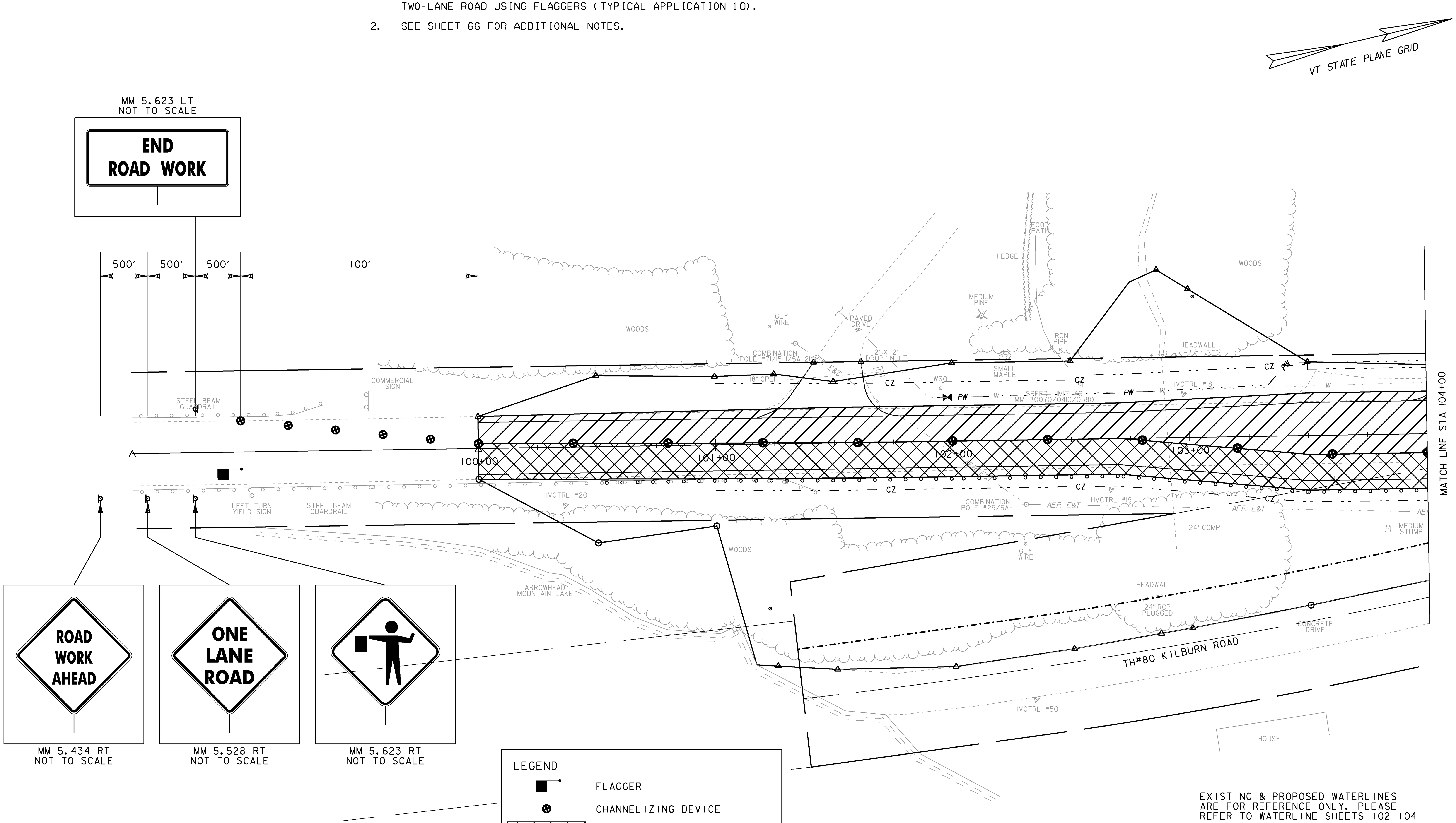
EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289tcp2bdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
TC PHASE 2 LAYOUT SHEET 4	SHEET 73 OF 104

NOTES:

1. TRAFFIC CONTROL PHASE 3 CONSISTS OF TEMPORARY ONE WAY TRAFFIC ON US ROUTE 7 AND LAKE ROAD. REFER TO MUTCD FIGURE 6H-10. LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS (TYPICAL APPLICATION 10).

2. SEE SHEET 66 FOR ADDITIONAL NOTES.



EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

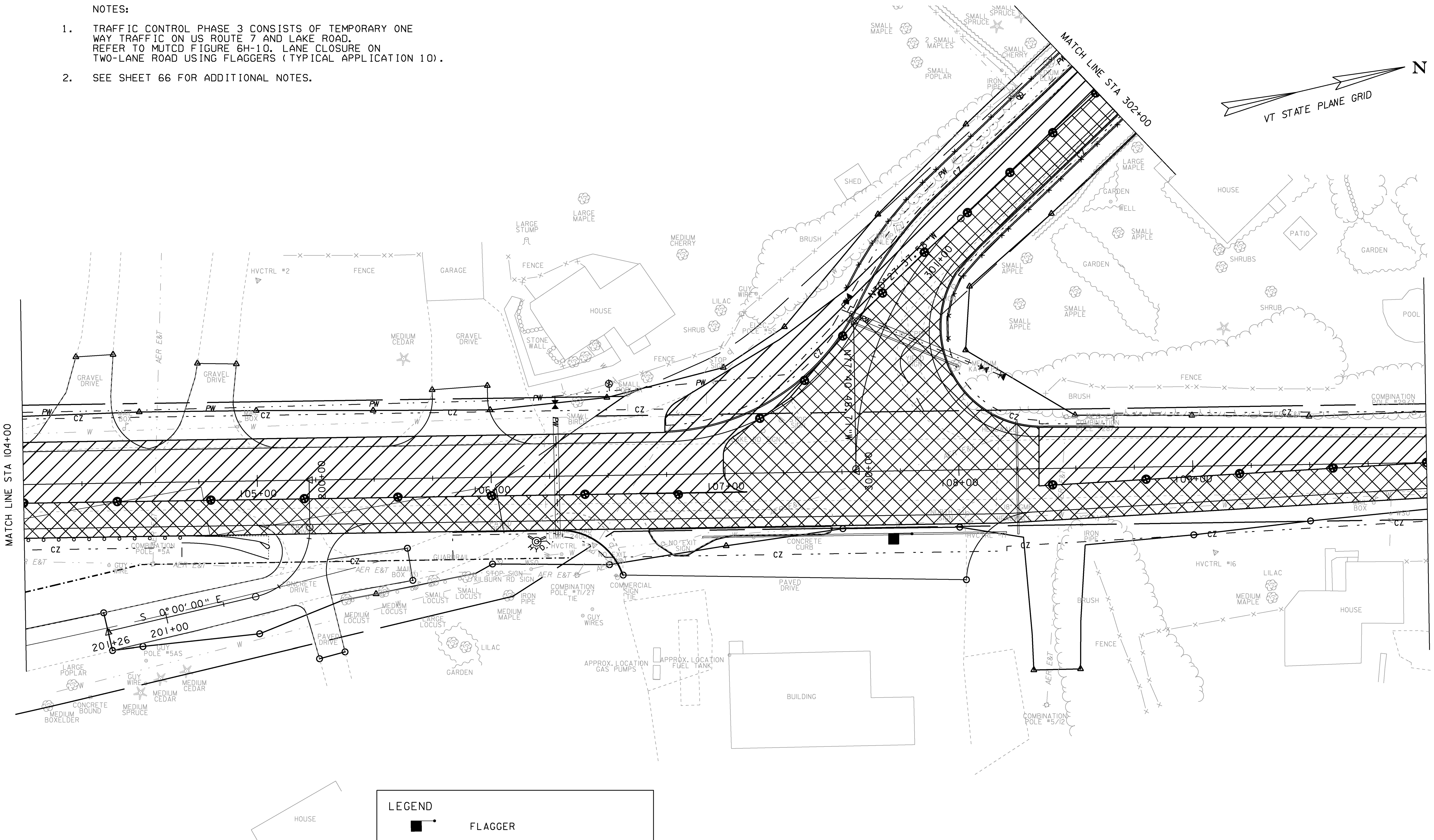
0 20 40
SCALE IN FEET

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289tcp3bdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
TC PHASE 3 LAYOUT SHEET 1	SHEET 74 OF 104

NOTES:

1. TRAFFIC CONTROL PHASE 3 CONSISTS OF TEMPORARY ONE WAY TRAFFIC ON US ROUTE 7 AND LAKE ROAD. REFER TO MUTCD FIGURE 6H-10. LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS (TYPICAL APPLICATION 10).

2. SEE SHEET 66 FOR ADDITIONAL NOTES.



LEGEND

FLAGGER

CHANNELIZING DEVICE

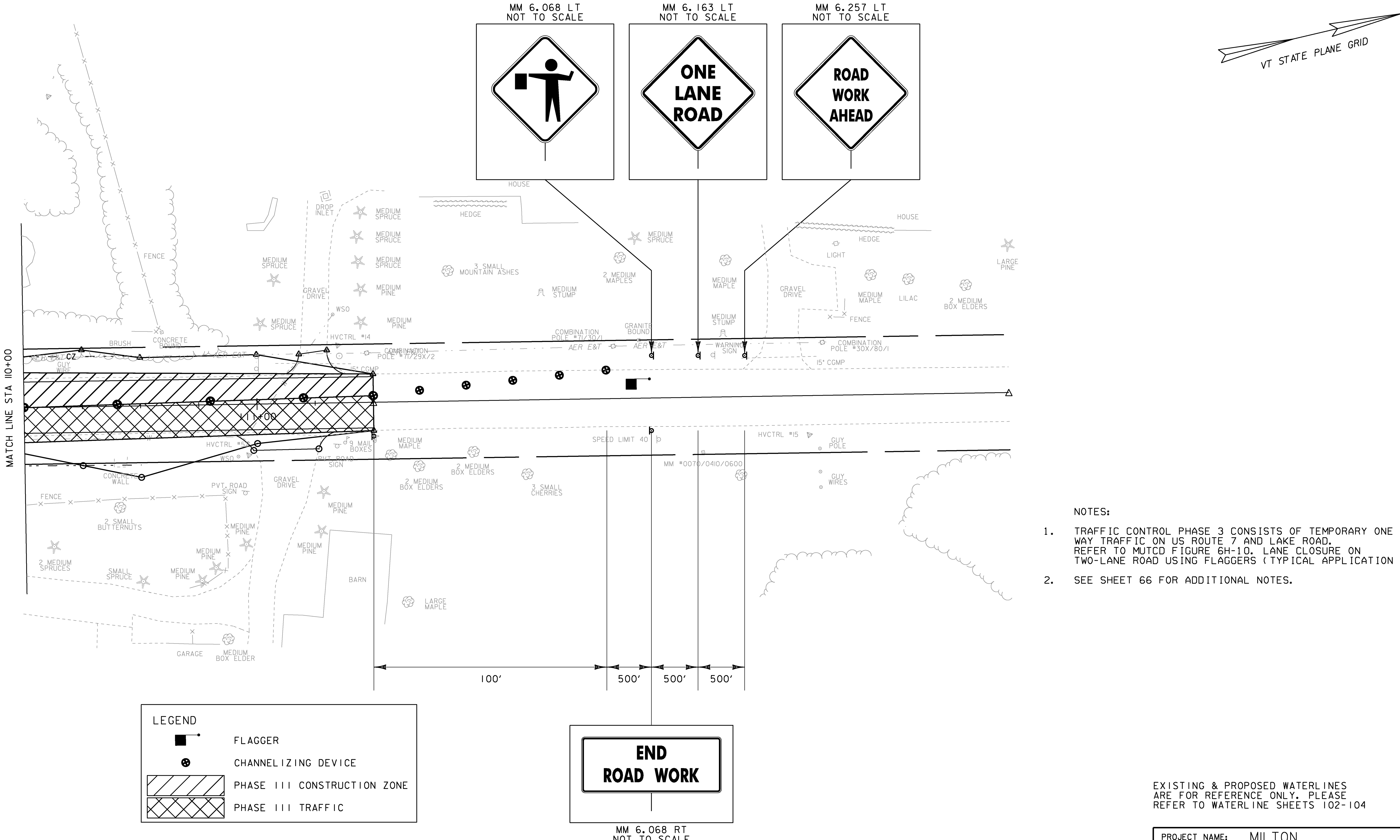
PHASE III CONSTRUCTION ZONE

PHASE III TRAFFIC

0 20 40
SCALE IN FEET

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289tcp3bdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
TC PHASE 3 LAYOUT SHEET 2	SHEET 75 OF 104



NOTES:

1. TRAFFIC CONTROL PHASE 3 CONSISTS OF TEMPORARY ONE WAY TRAFFIC ON US ROUTE 7 AND LAKE ROAD. REFER TO MUTCD FIGURE 6H-10. LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS (TYPICAL APPLICATION 10).
2. SEE SHEET 66 FOR ADDITIONAL NOTES.

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

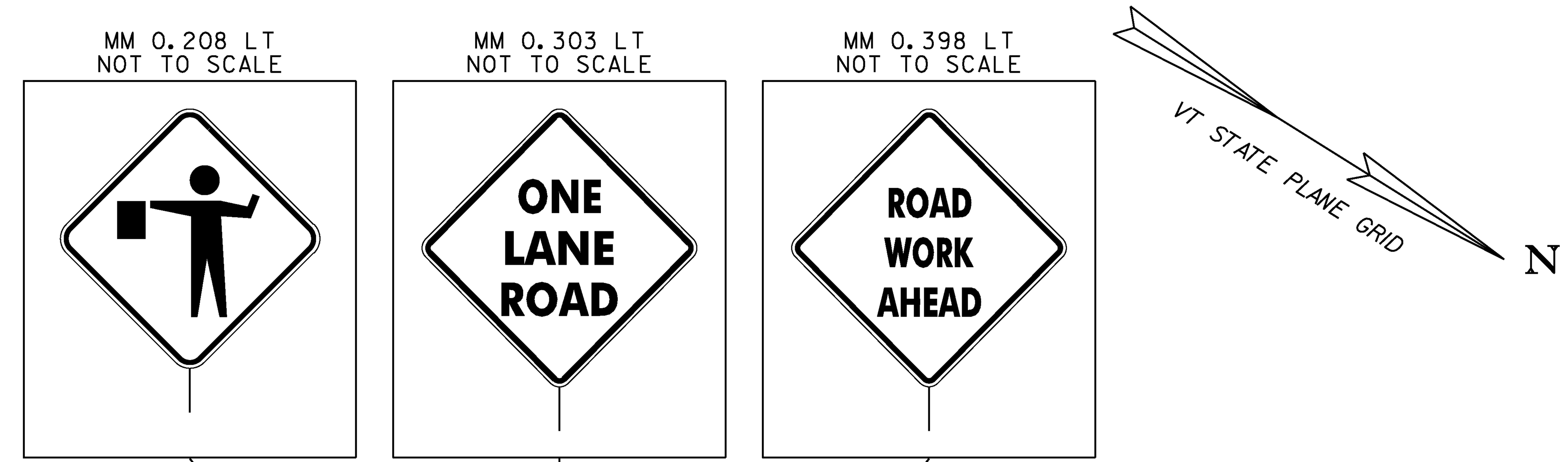
0 20 40
SCALE IN FEET

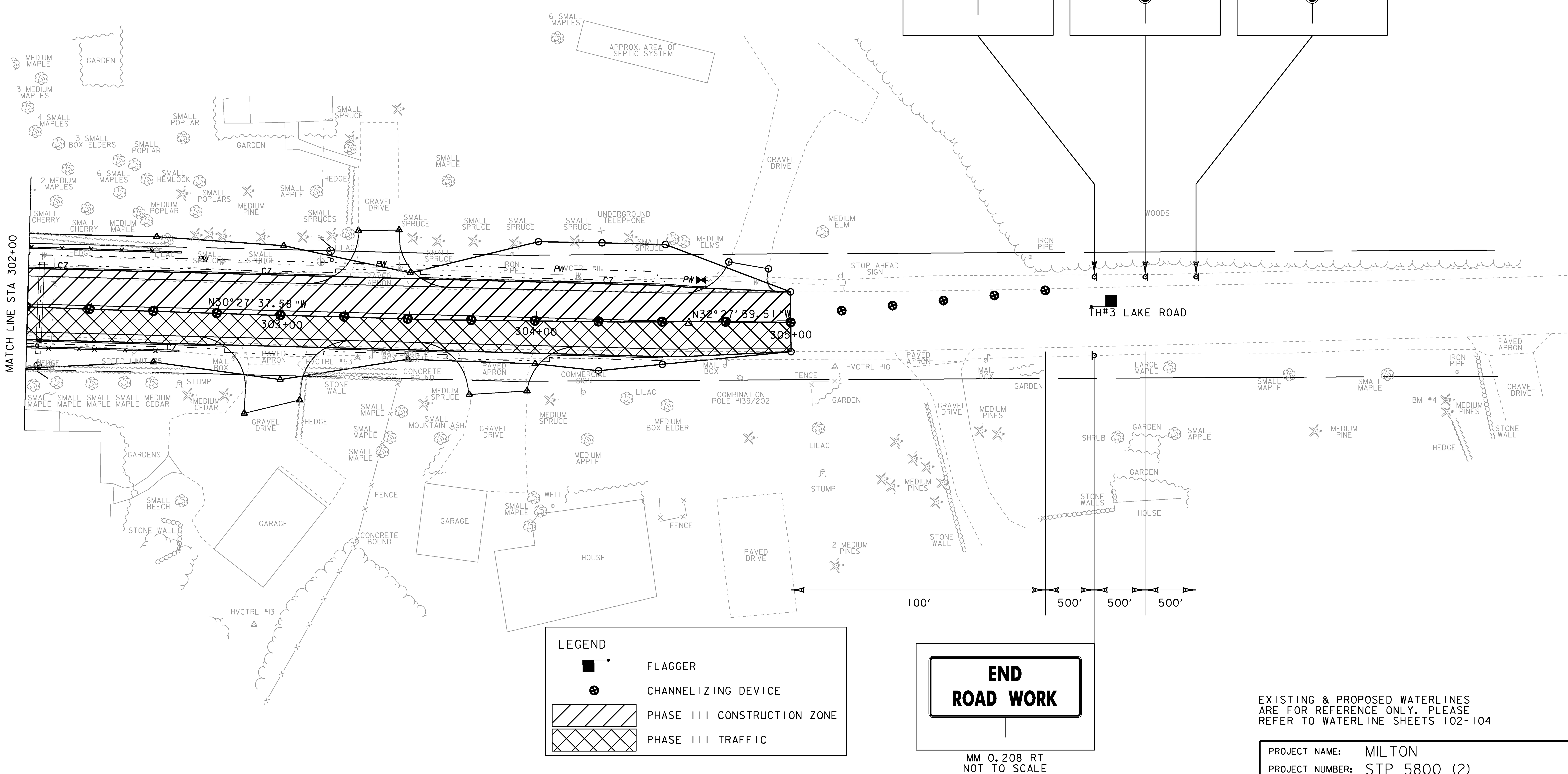
PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289tcp3bdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
TC PHASE 3 LAYOUT SHEET 3	SHEET 76 OF 104

NOTES:

1. TRAFFIC CONTROL PHASE 3 CONSISTS OF TEMPORARY ONE WAY TRAFFIC ON US ROUTE 7 AND LAKE ROAD. REFER TO MUTCD FIGURE 6H-10. LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS (TYPICAL APPLICATION 10).

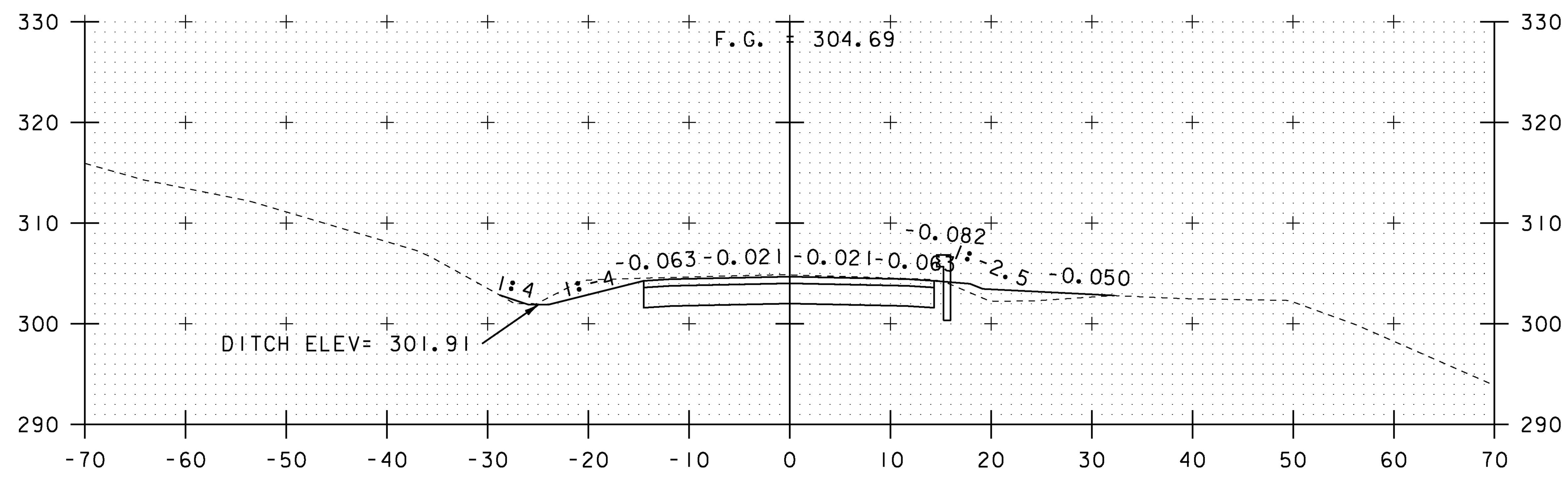
2. SEE SHEET 66 FOR ADDITIONAL NOTES.



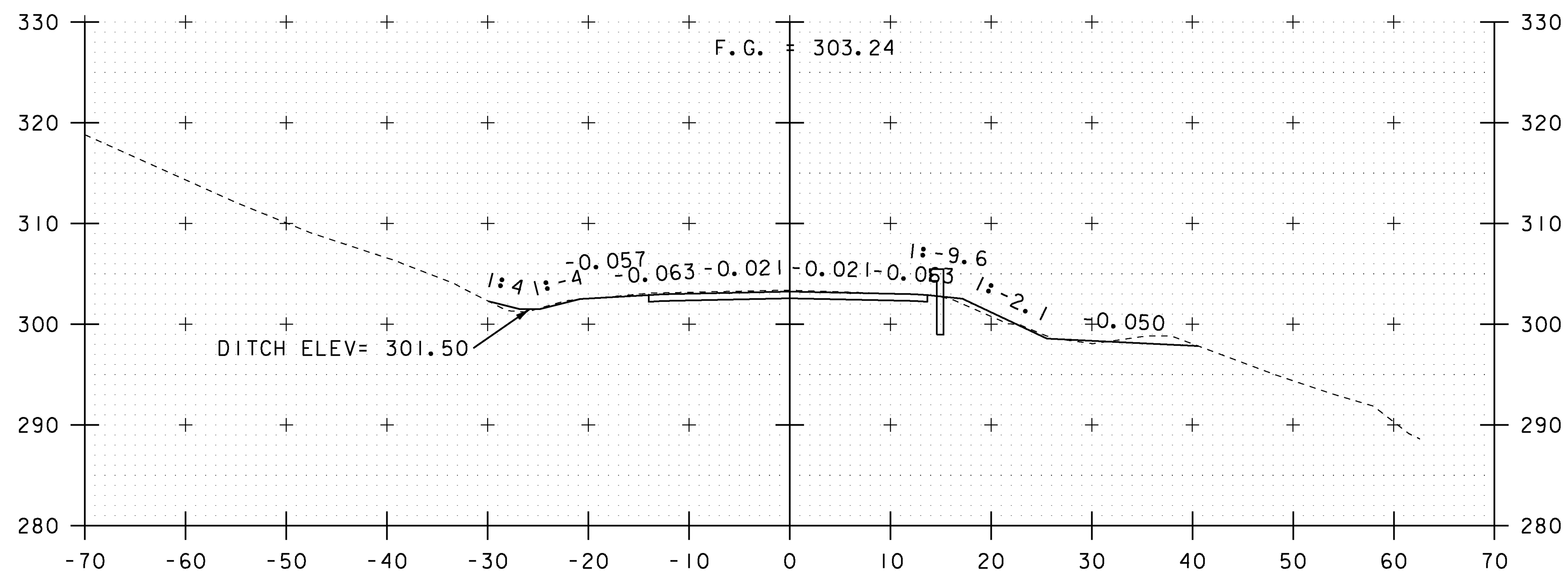


EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

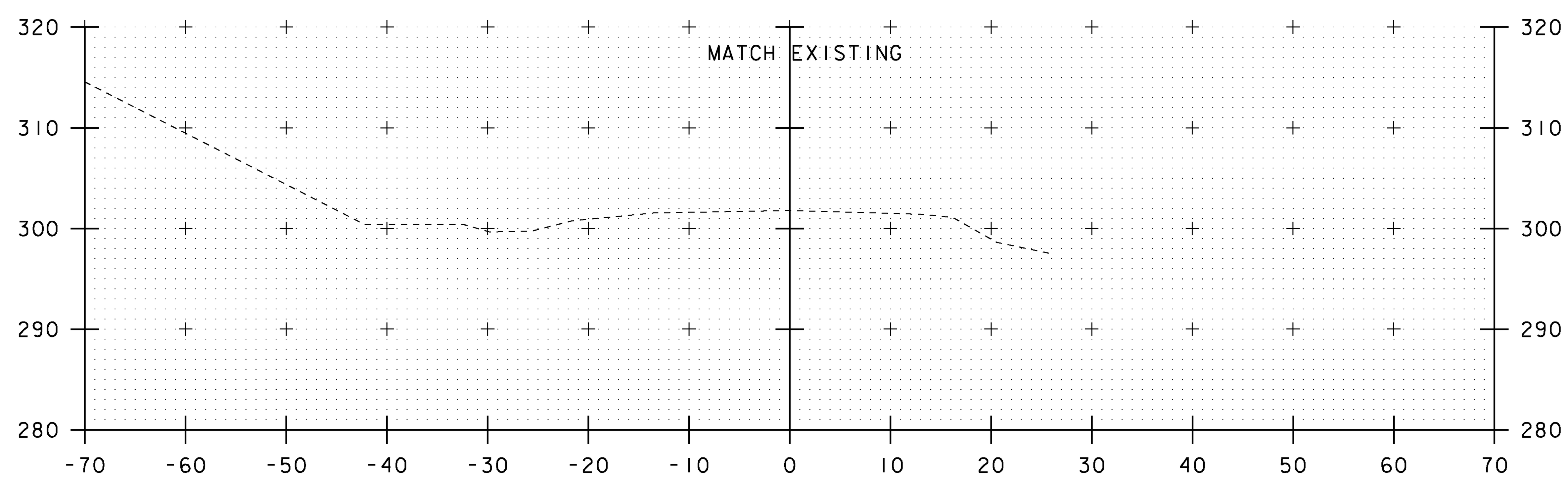
PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289tcp3bdr.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
TC PHASE 3 LAYOUT SHEET 4	SHEET 77 OF 104



101+00



100+50



100+00
BEGIN APPROACH

NOTE:
DRAINAGE FEATURES ARE NOT PROJECTED ONTO CROSS SECTIONS, PLEASE REFER TO DRAINAGE LAYOUT AND DRAINAGE PROFILE SHEETS FOR DETAILED INFORMATION (TYP.)

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

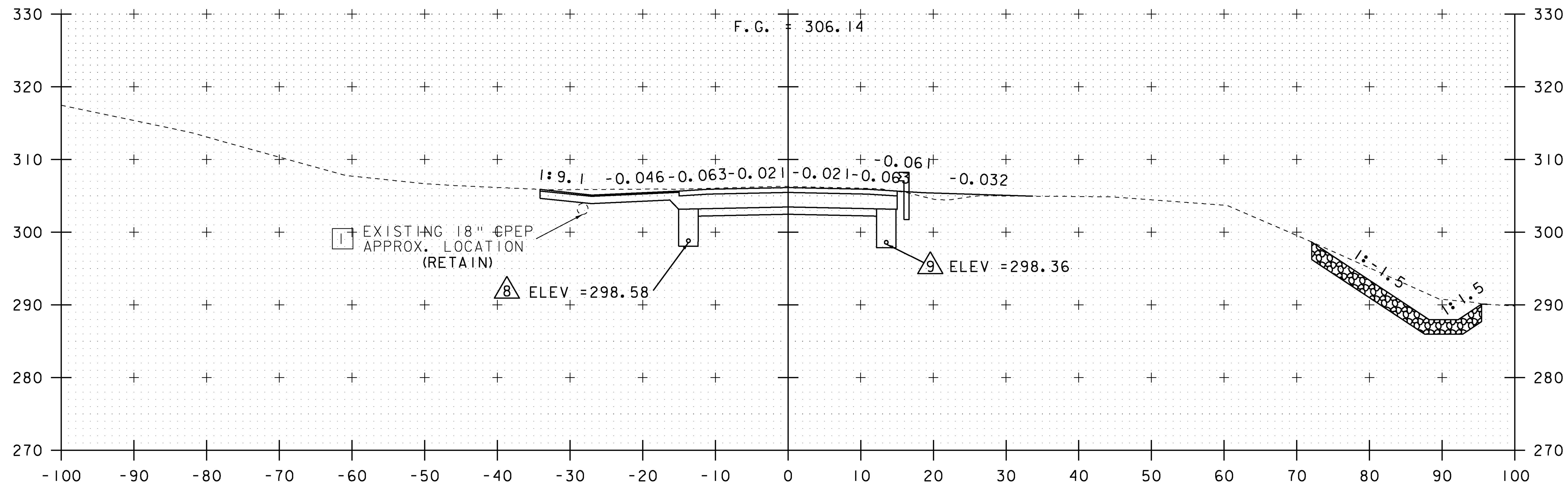
0 10 20
SCALE

STA. 100+00 TO STA. 101+00

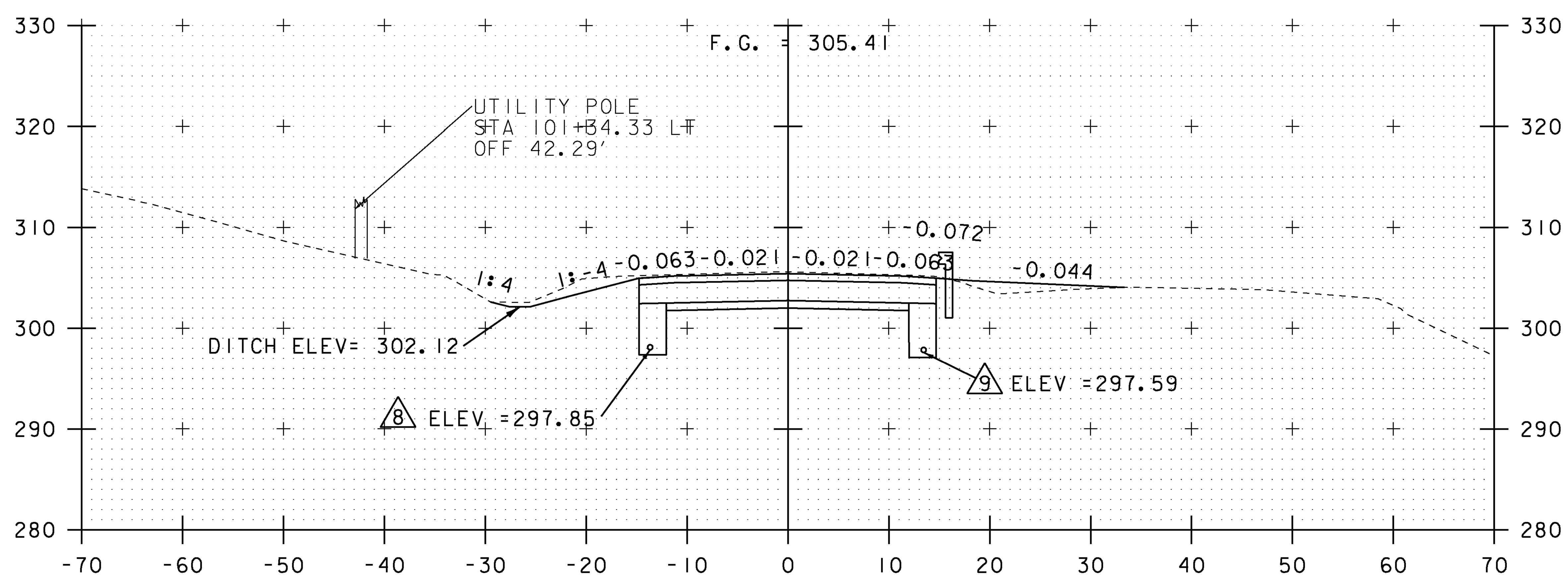
PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)

FILE NAME: t92D289xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: D. LYMAN
US ROUTE 7 CROSS SECTION SHEET 1

PLOT DATE: 23-FEB-2011
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 78 OF 104



101+50



101+25
END APPROACH
BEGIN PROJECT

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

0 10 20
SCALE

NOTE:
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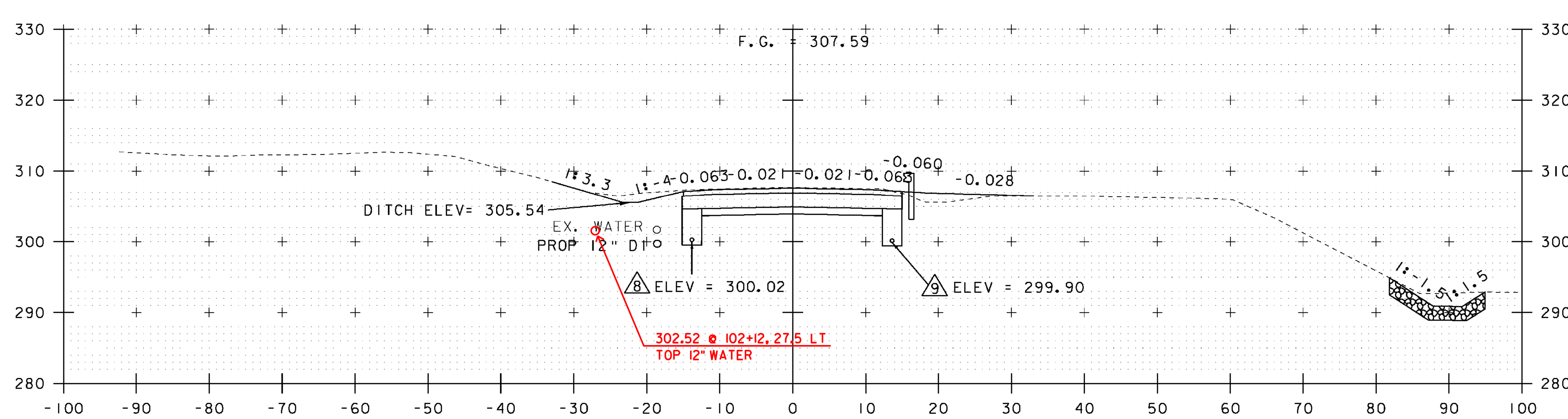
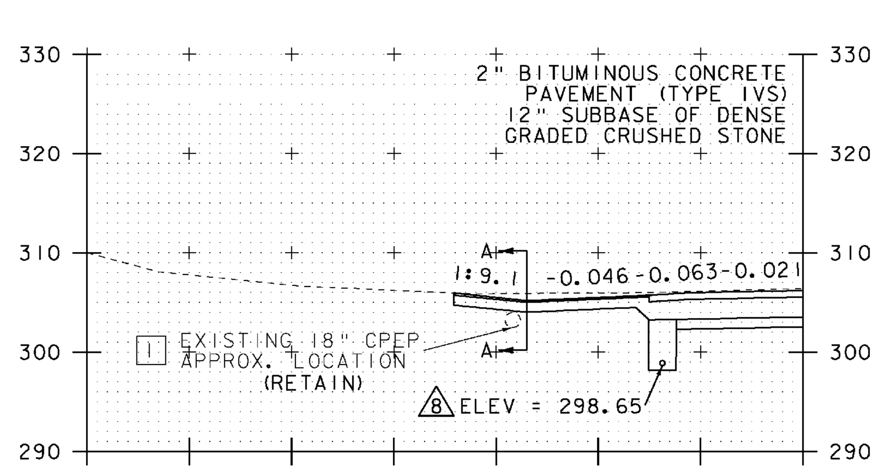
STA. 101+25 TO STA. 101+50

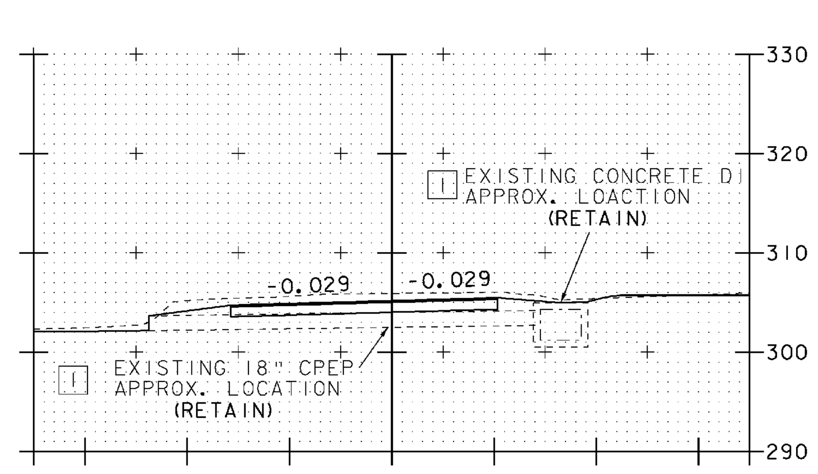
PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289xsl.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
US ROUTE 7 CROSS SECTION SHEET 2	SHEET 79 OF 104



102+00



101+52.44
PAVED DRIVE LT



SECTION A-A

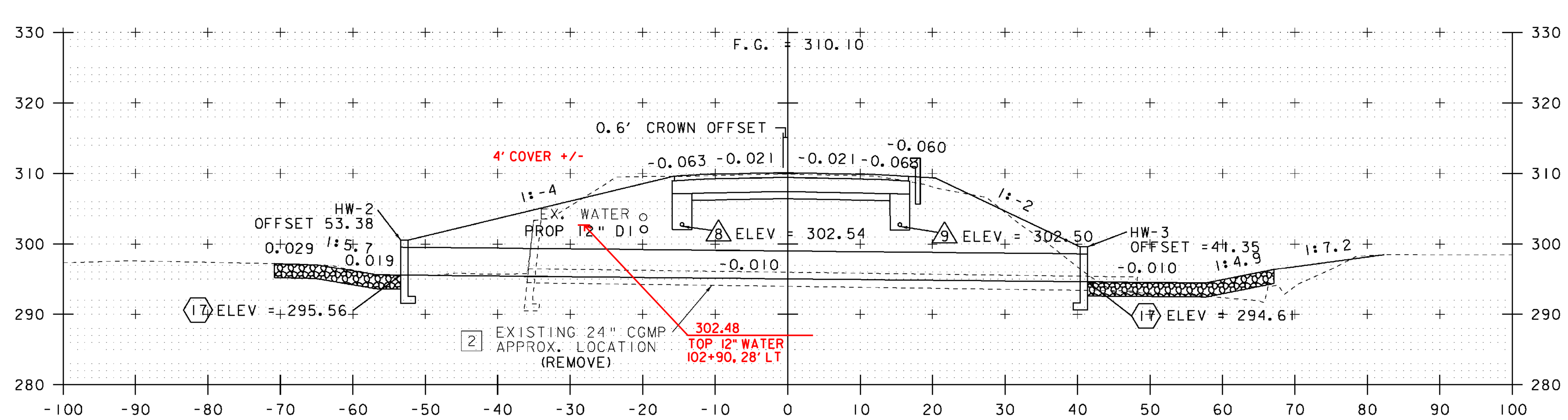
EXISTING & PROPOSED WATERLINES
ARE FOR REFERENCE ONLY. PLEASE
REFER TO WATERLINE SHEETS 102-104

0 10 20
SCALE

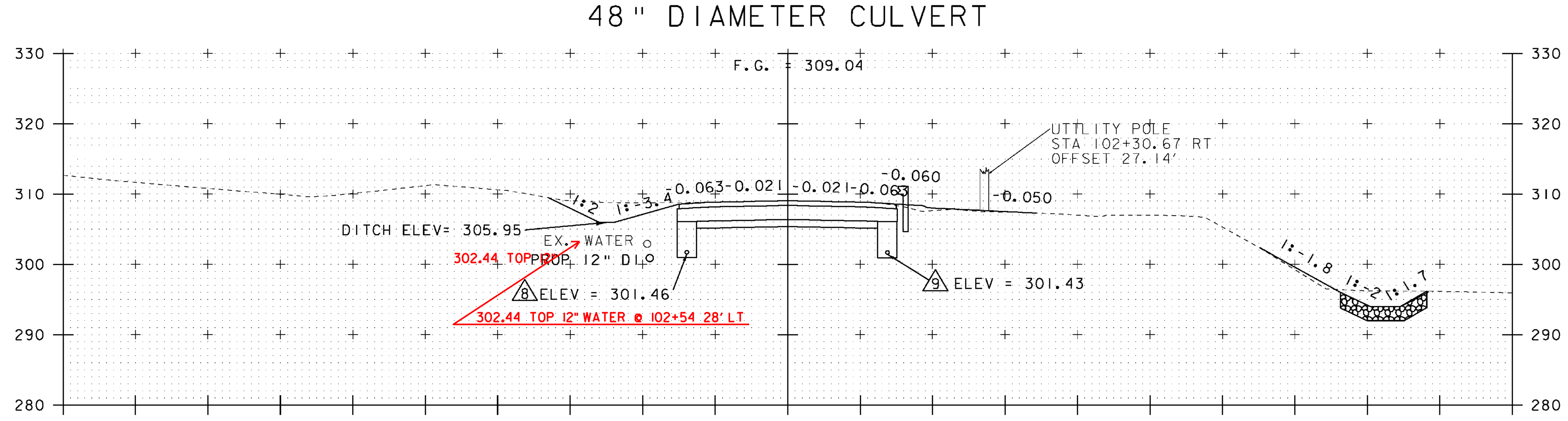
NOTE:
DRAINAGE FEATURES ARE NOT PROJECTED ONTO
CROSS SECTIONS, PLEASE REFER TO DRAINAGE
LAYOUT AND DRAINAGE PROFILE SHEETS FOR
DETAILED INFORMATION (TYP.)

STA. 101+52.44 TO STA. 102+00

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289xsl.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
US ROUTE 7 CROSS SECTION SHEET 3	SHEET 80 OF 104



102+87
48" DIAMETER CULVERT



102+50

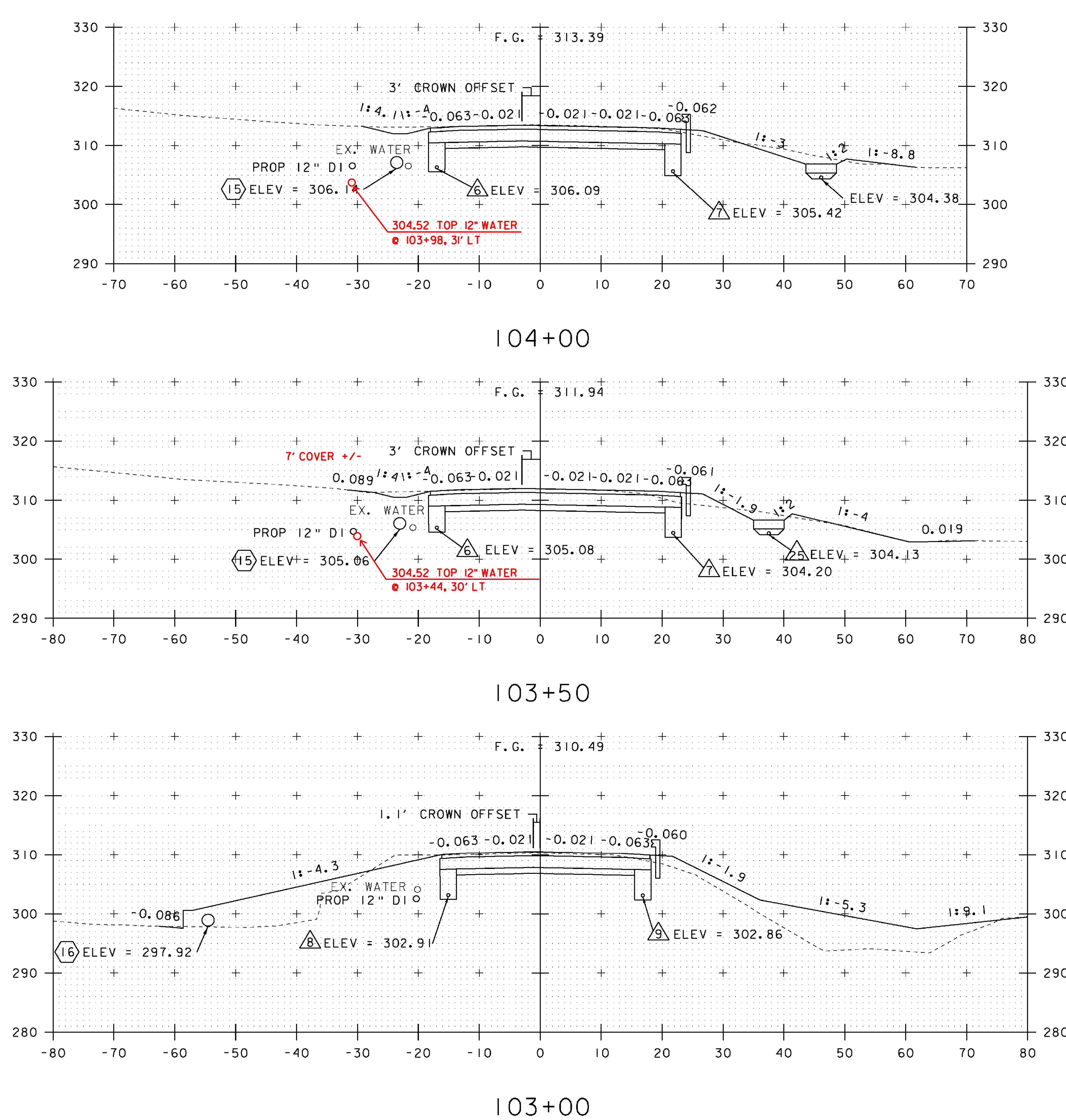
EXISTING & PROPOSED WATERLINES
ARE FOR REFERENCE ONLY. PLEASE
REFER TO WATERLINE SHEETS 102-104

0 10 20
SCALE

NOTE:
DRAINAGE FEATURES ARE NOT PROJECTED ONTO
CROSS SECTIONS, PLEASE REFER TO DRAINAGE
LAYOUT AND DRAINAGE PROFILE SHEETS FOR
DETAILED INFORMATION (TYP.)

STA. 102+50 TO STA. 102+87

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289xsl.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
US ROUTE 7 CROSS SECTION SHEET 4	SHEET 81 OF 104



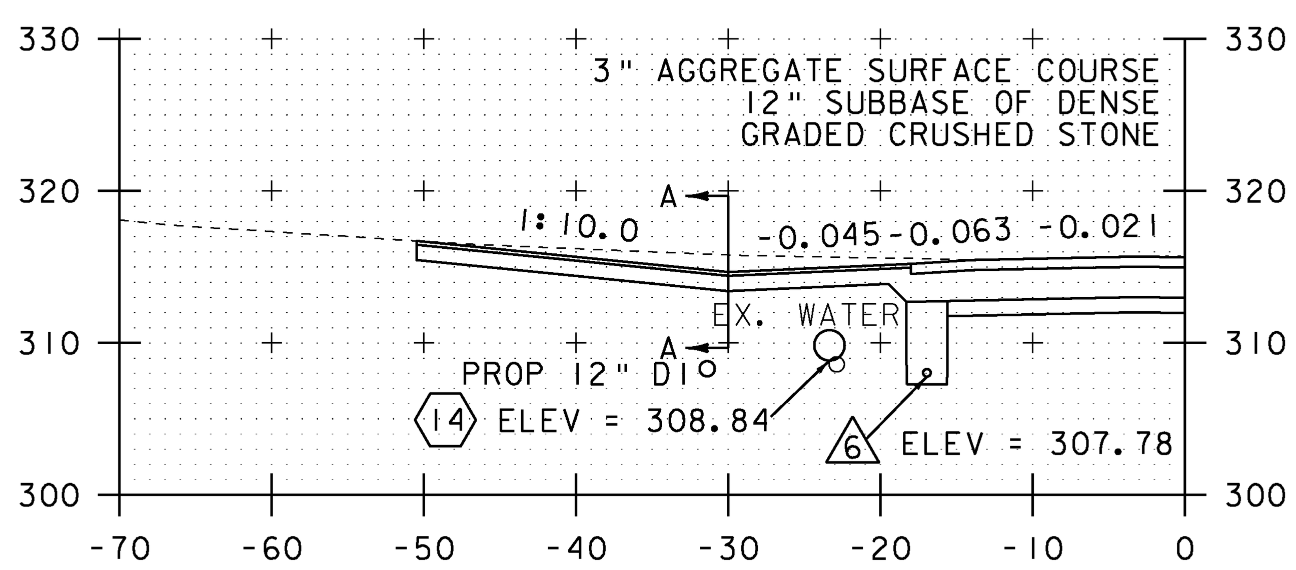
NOTE:
DRAINAGE FEATURES ARE NOT PROJECTED ONTO CROSS SECTIONS, PLEASE REFER TO DRAINAGE LAYOUT AND DRAINAGE PROFILE SHEETS FOR DETAILED INFORMATION (TYP.)

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

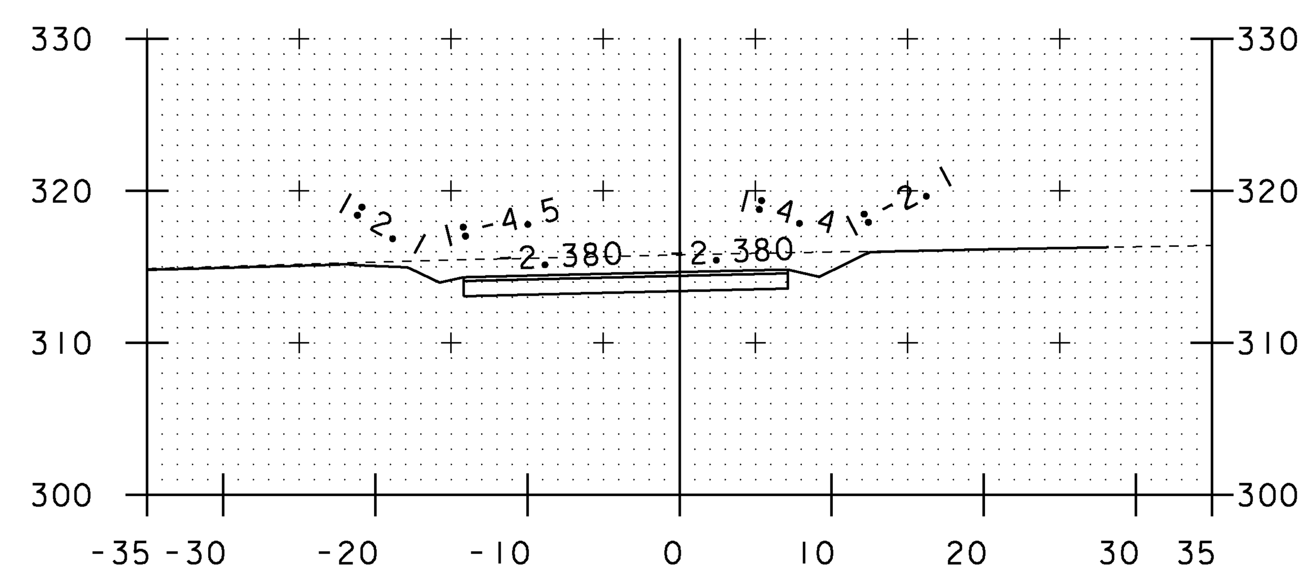
0 10 20
SCALE

STA. 103+00 TO STA. 104+00

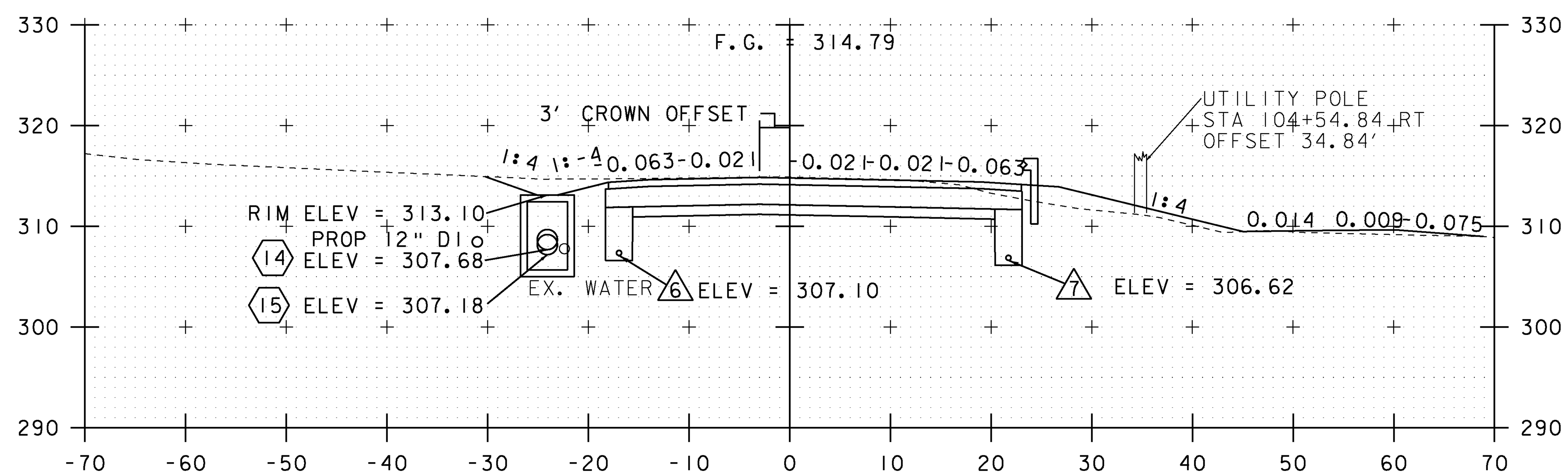
PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t920289xsl.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
US ROUTE 7 CROSS SECTION SHEET 5	SHEET 82 OF 104



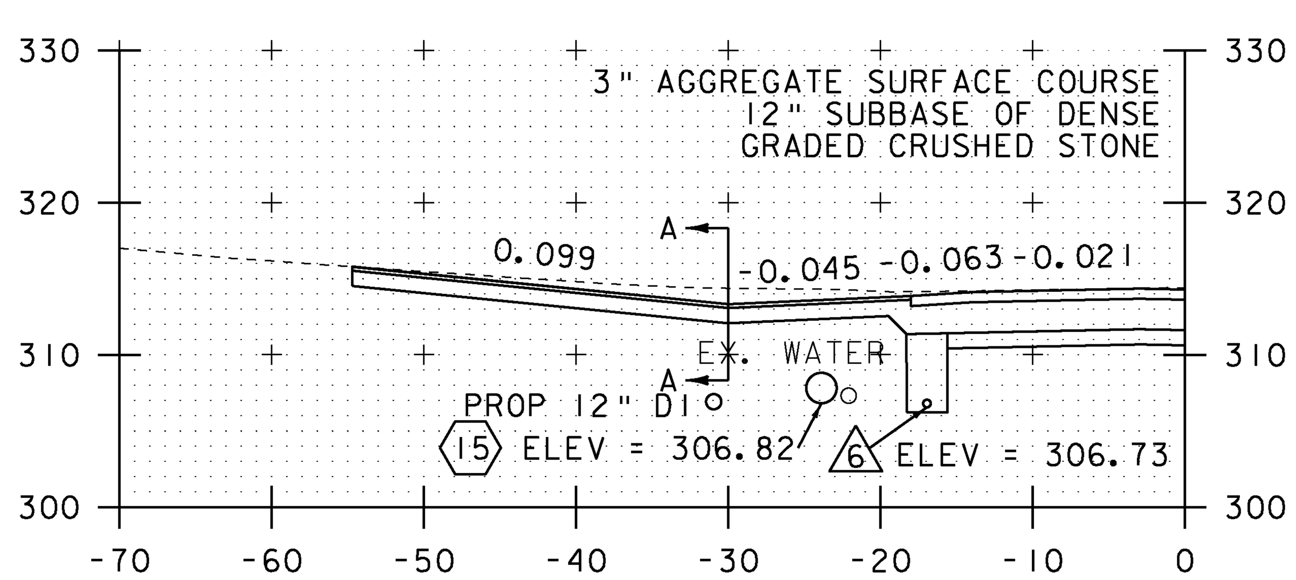
104+83.50
GRAVEL DRIVE LT



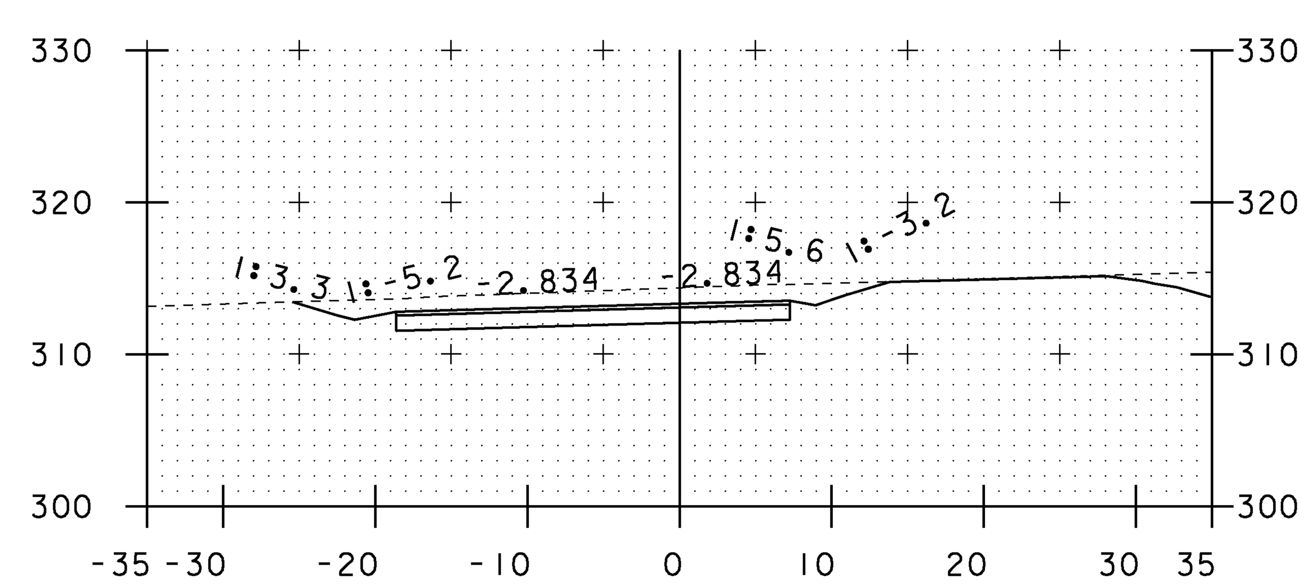
SECTION A-A



104+50



104+31.22
GRAVEL DRIVE LT



SECTION A-A

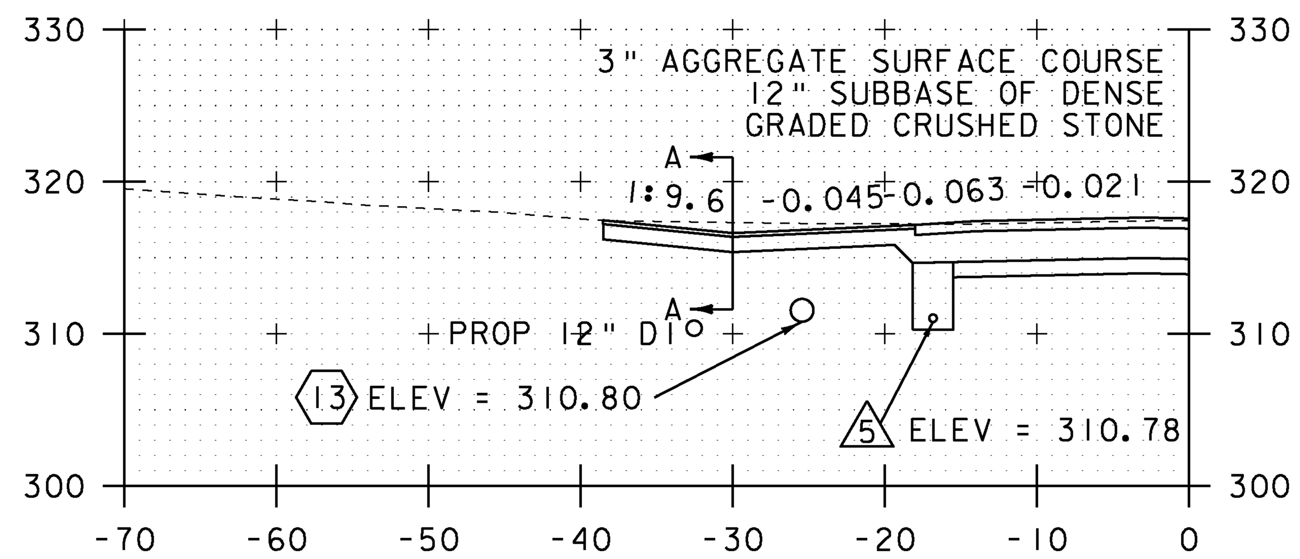
NOTE:
DRAINAGE FEATURES ARE NOT PROJECTED ONTO CROSS SECTIONS, PLEASE REFER TO DRAINAGE LAYOUT AND DRAINAGE PROFILE SHEETS FOR DETAILED INFORMATION (TYP.)

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

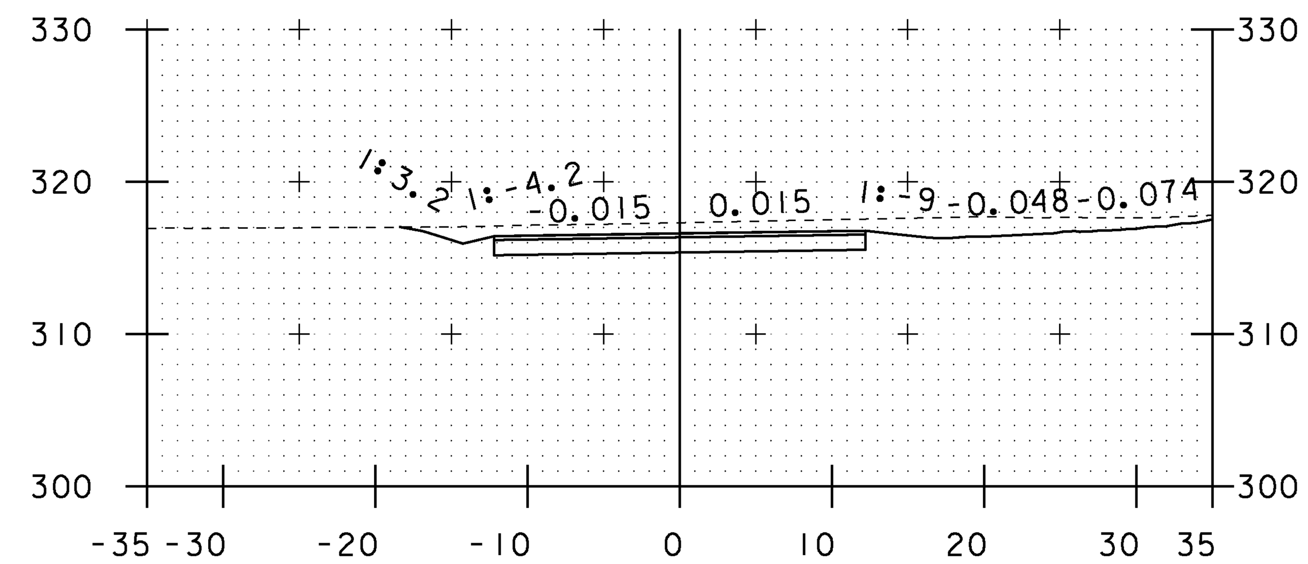
0 10 20
SCALE

STA. 104+31.22 TO STA. 104+83.50

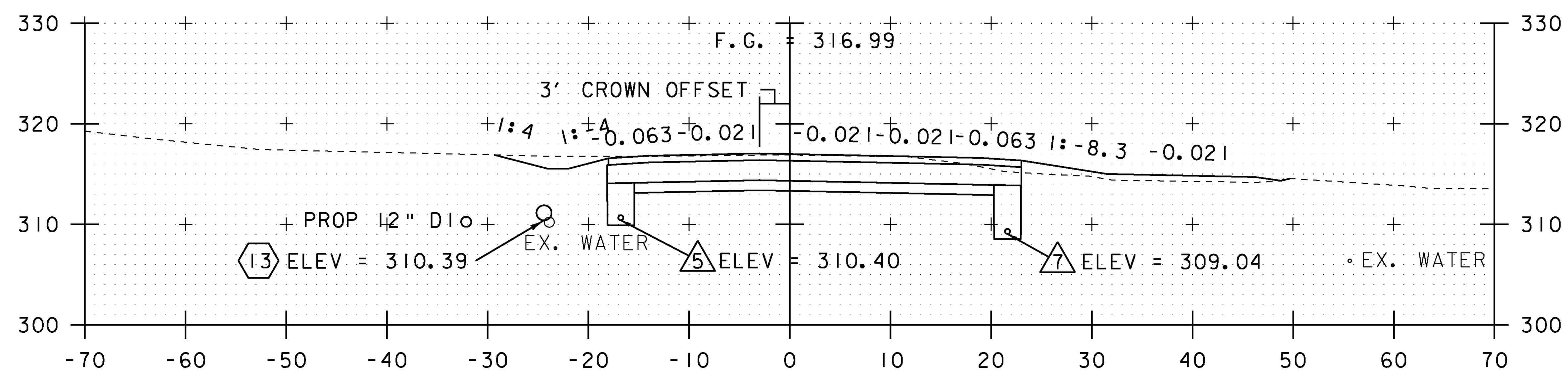
PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289xsl.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
US ROUTE 7 CROSS SECTION SHEET 6	SHEET 83 OF 104



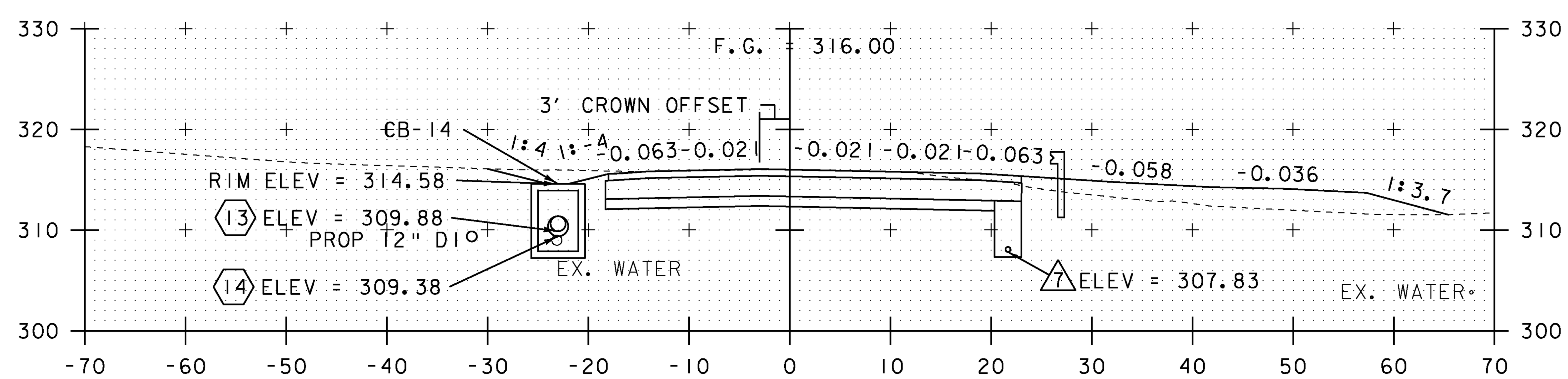
105+87.17
GRAVEL DRIVE LT



SECTION A-A



105+50



105+00

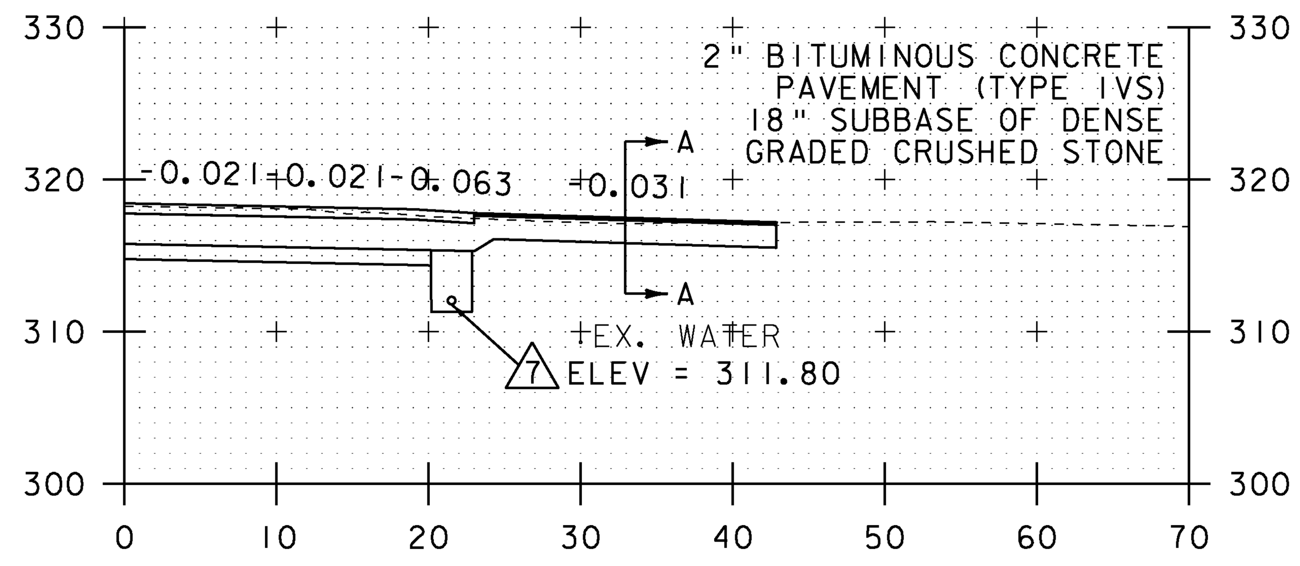
EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

0 10 20
SCALE

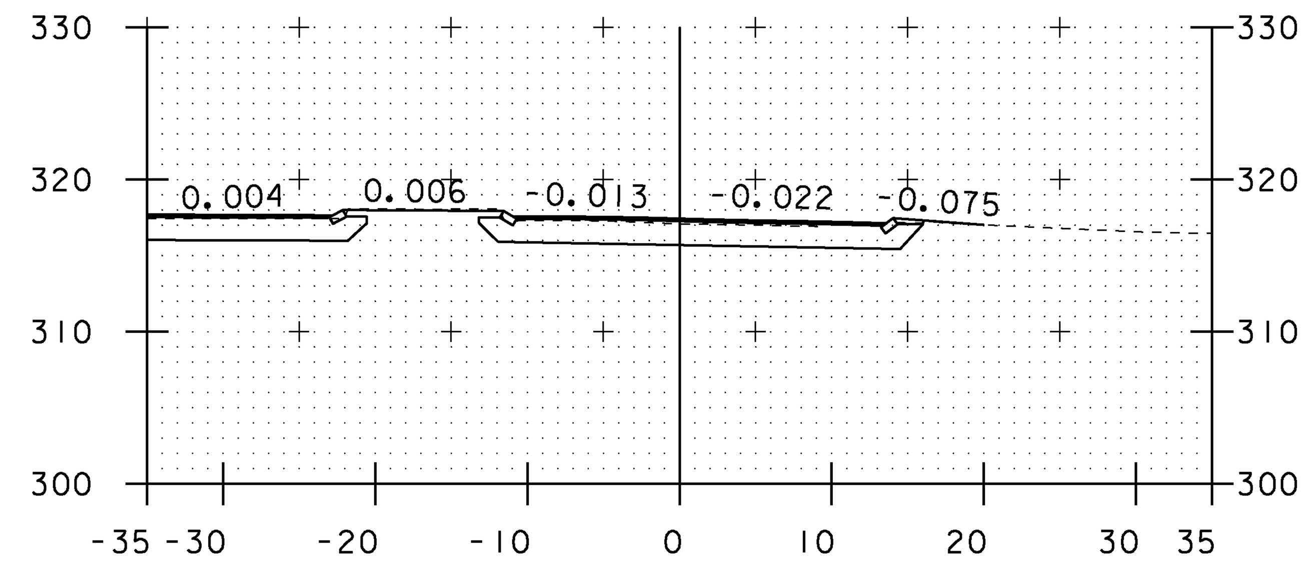
NOTE:
DRAINAGE FEATURES ARE NOT PROJECTED ONTO CROSS SECTIONS, PLEASE REFER TO DRAINAGE LAYOUT AND DRAINAGE PROFILE SHEETS FOR DETAILED INFORMATION (TYP.)

STA. 105+00 TO STA. 105+87.17

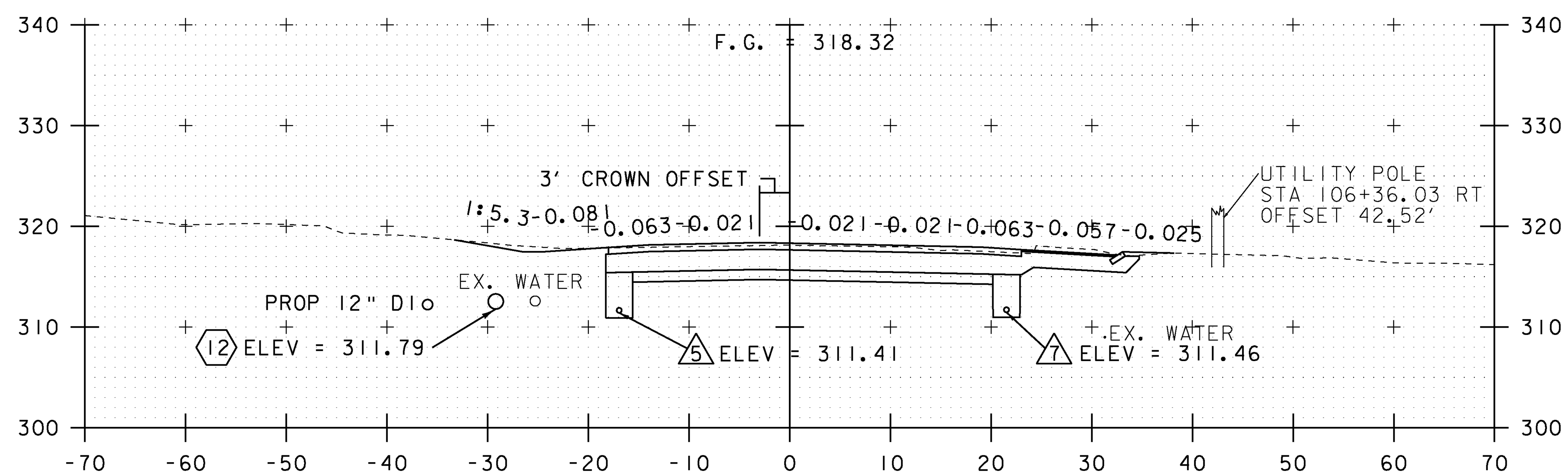
PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289xsl.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
US ROUTE 7 CROSS SECTION SHEET 7	SHEET 84 OF 104



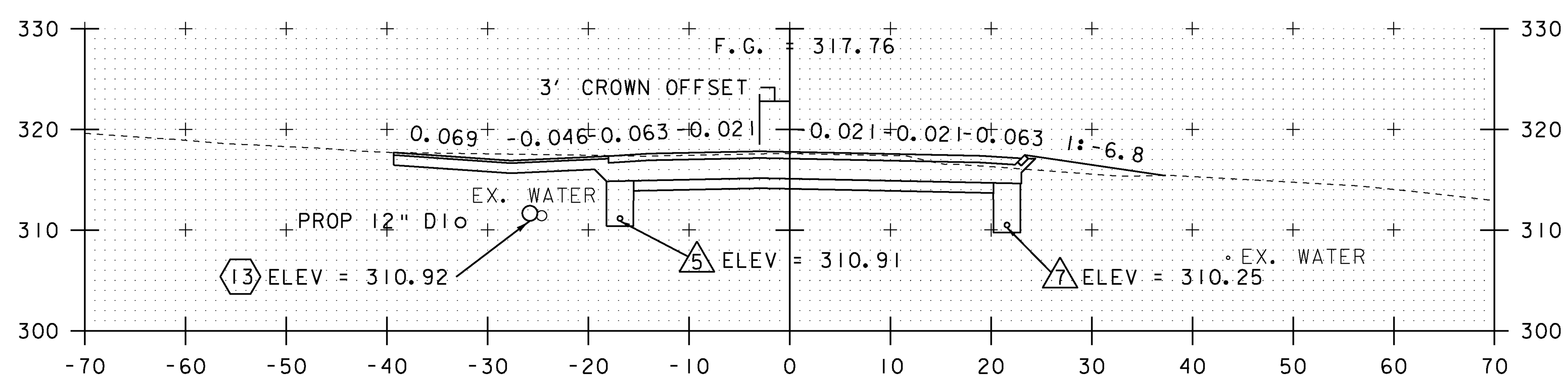
106+63.93
PAVED DRIVE RT



SECTION A-A

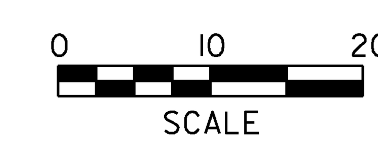


106+50



106+00

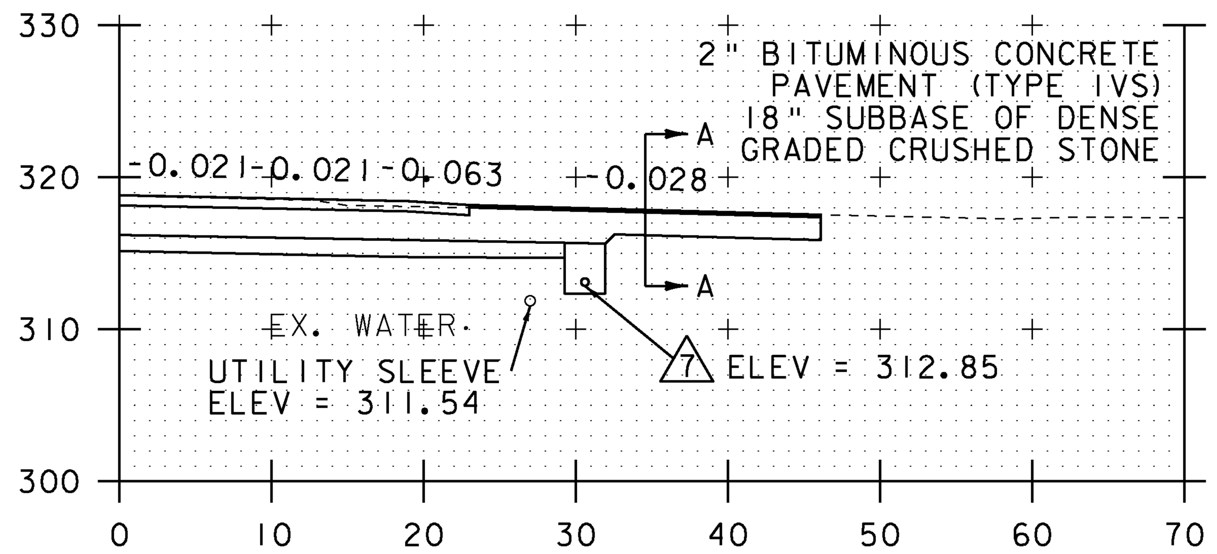
EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104



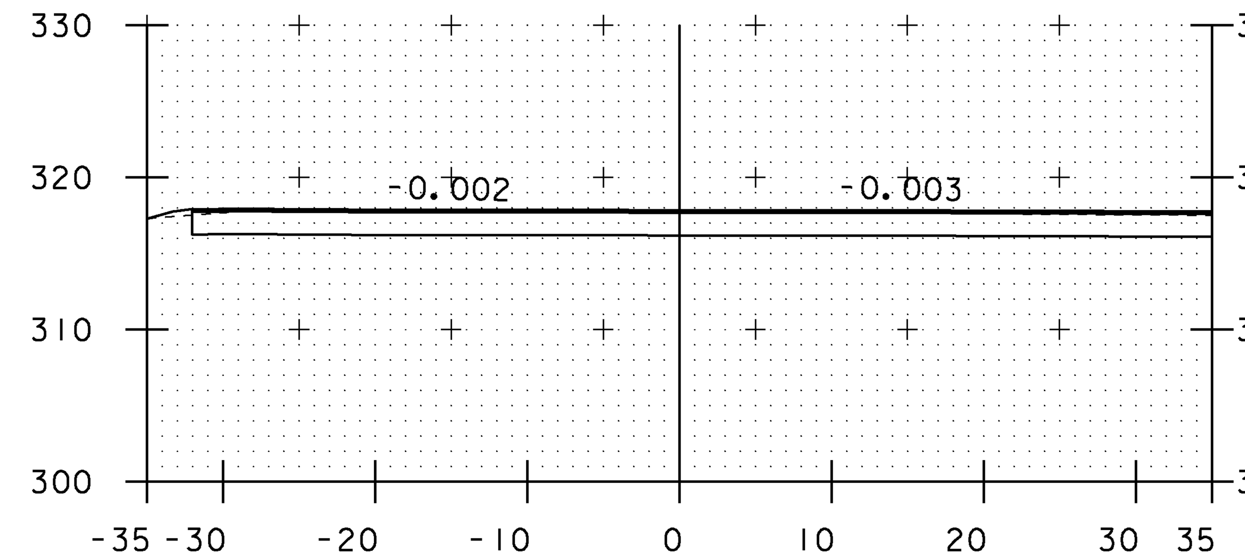
NOTE:
DRAINAGE FEATURES ARE NOT PROJECTED ONTO CROSS SECTIONS, PLEASE REFER TO DRAINAGE LAYOUT AND DRAINAGE PROFILE SHEETS FOR DETAILED INFORMATION (TYP.)

STA. 106+00 TO STA. 106+63.93

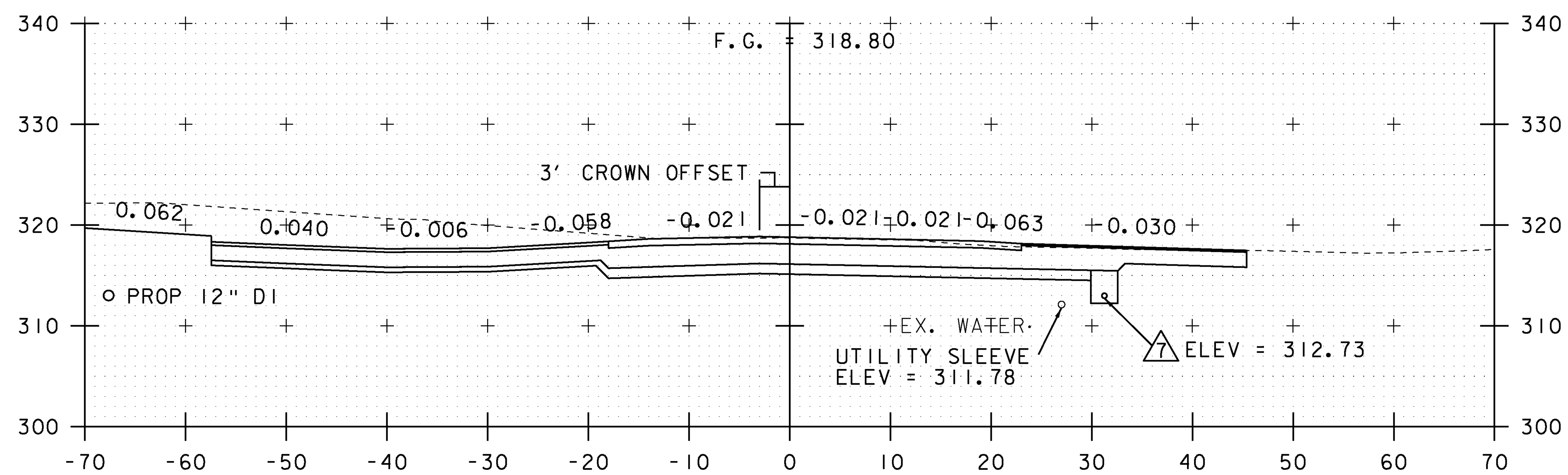
PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289xsl.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
US ROUTE 7 CROSS SECTION SHEET 8	SHEET 85 OF 104



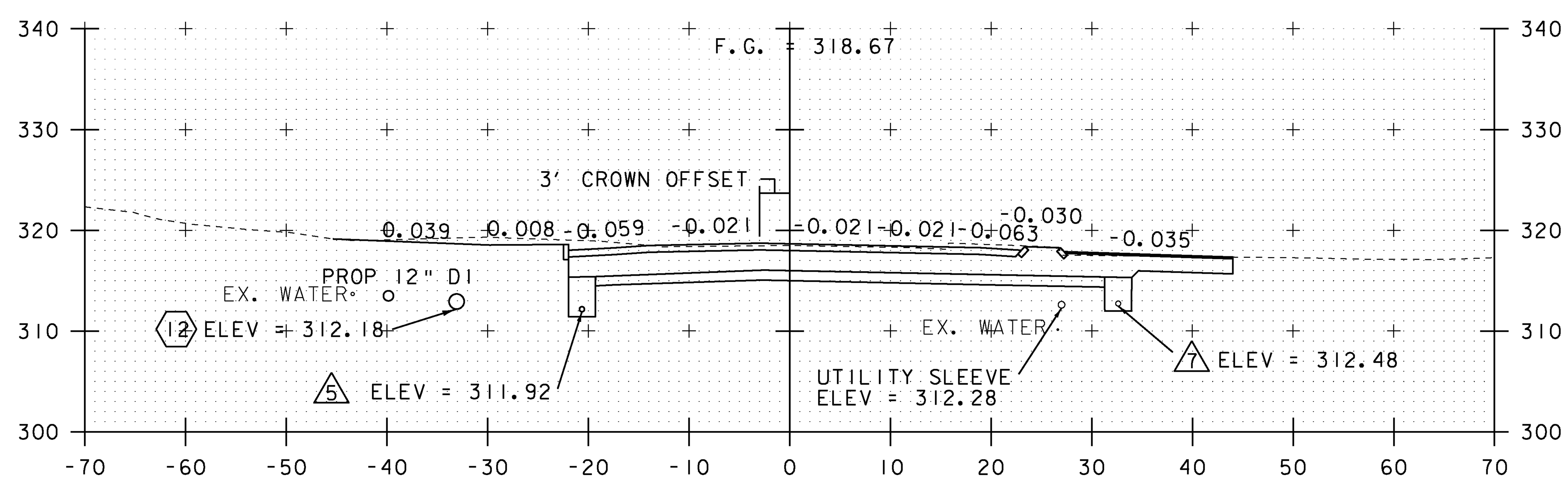
107+73.89
PAVED DRIVE RT



SECTION A-A

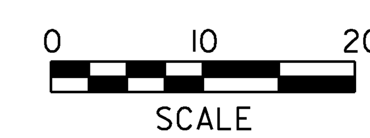


107+50



107+00

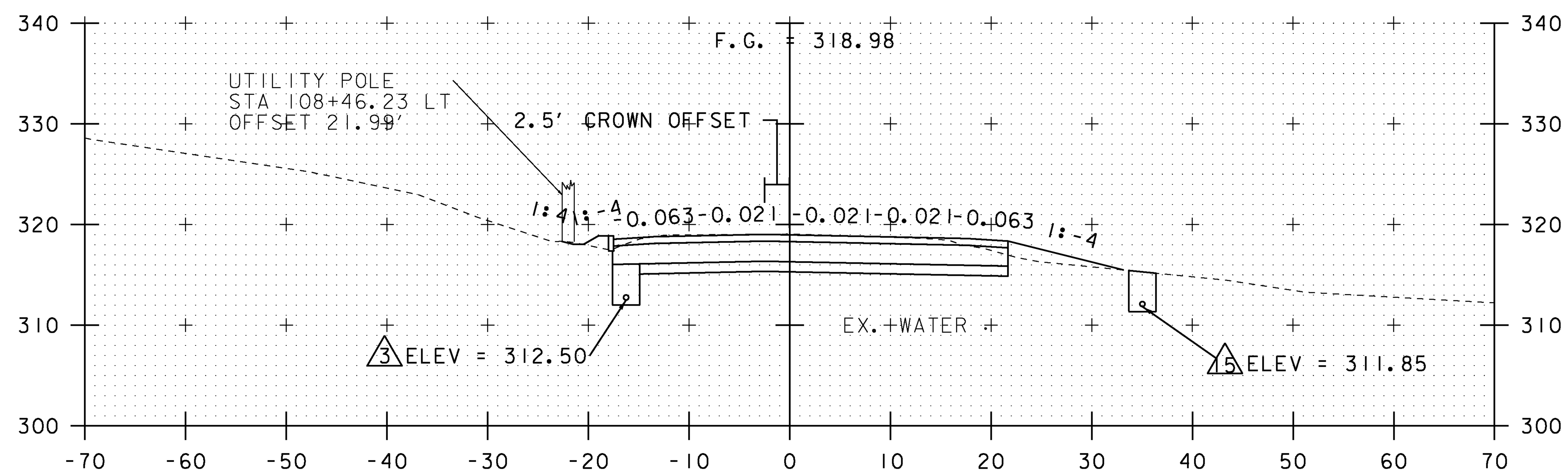
EXISTING & PROPOSED WATERLINES
ARE FOR REFERENCE ONLY. PLEASE
REFER TO WATERLINE SHEETS 102-104



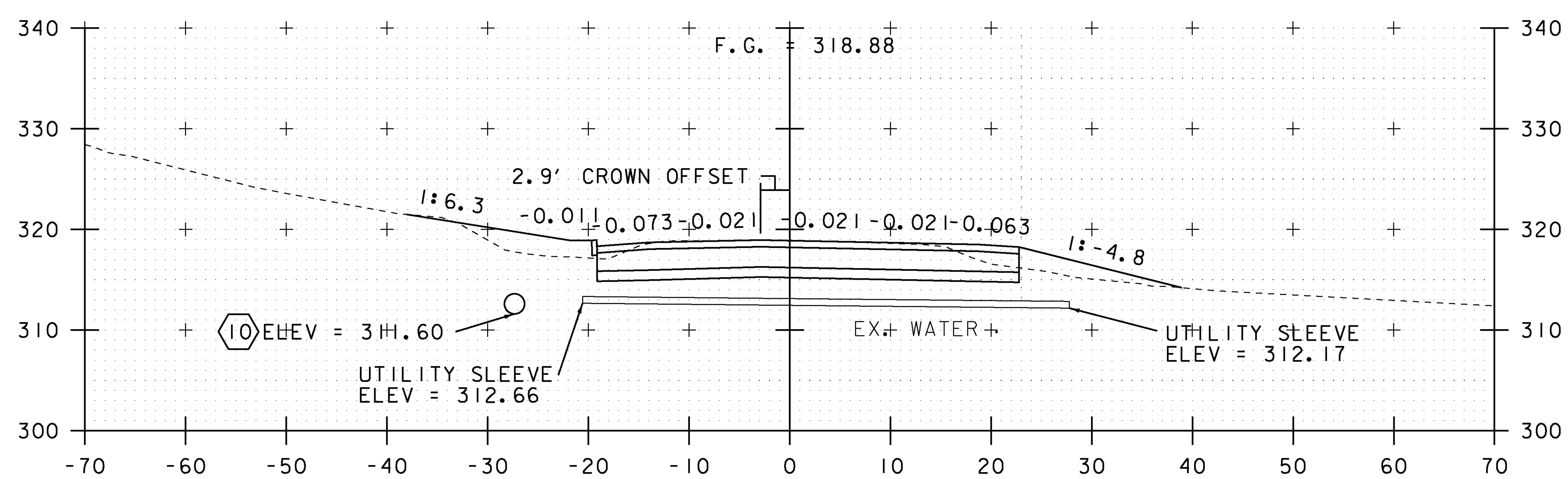
NOTE:
DRAINAGE FEATURES ARE NOT PROJECTED ONTO
CROSS SECTIONS, PLEASE REFER TO DRAINAGE
LAYOUT AND DRAINAGE PROFILE SHEETS FOR
DETAILED INFORMATION (TYP.)

STA. 107+00 TO STA. 107+73.89

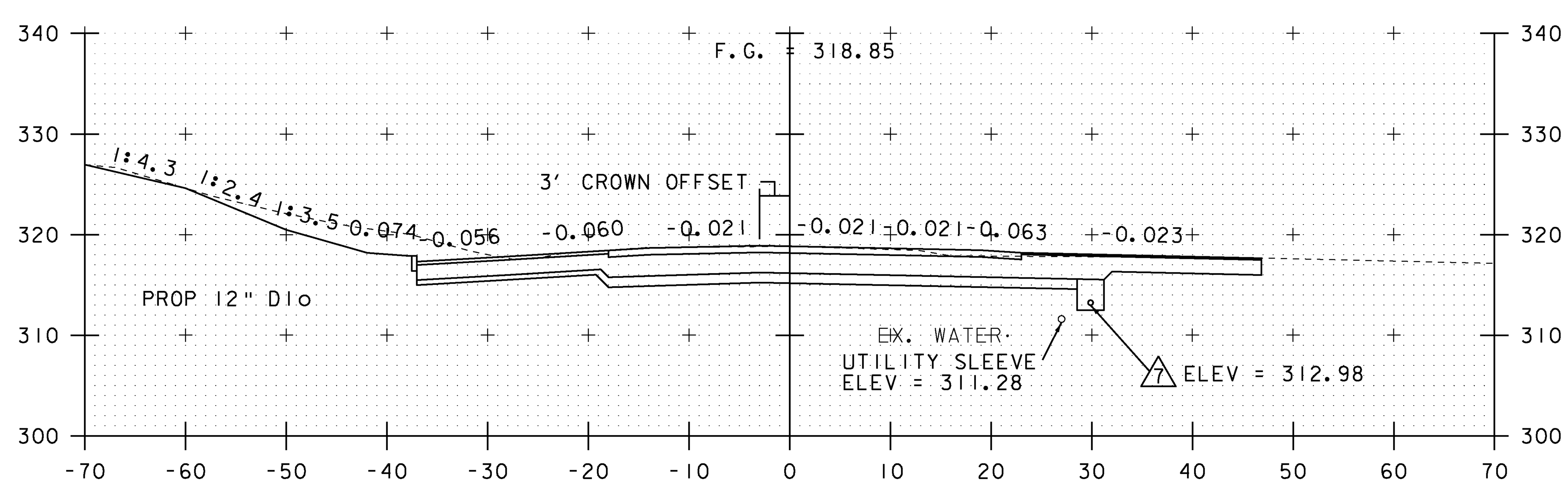
PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289xsl.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
US ROUTE 7 CROSS SECTION SHEET 9	SHEET 86 OF 104



108+50



108+25
8" DIAMETER UTILITY SLEEVE



108+00

NOTE:
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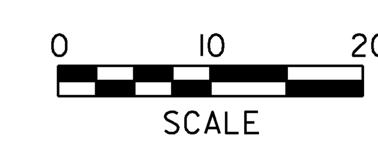
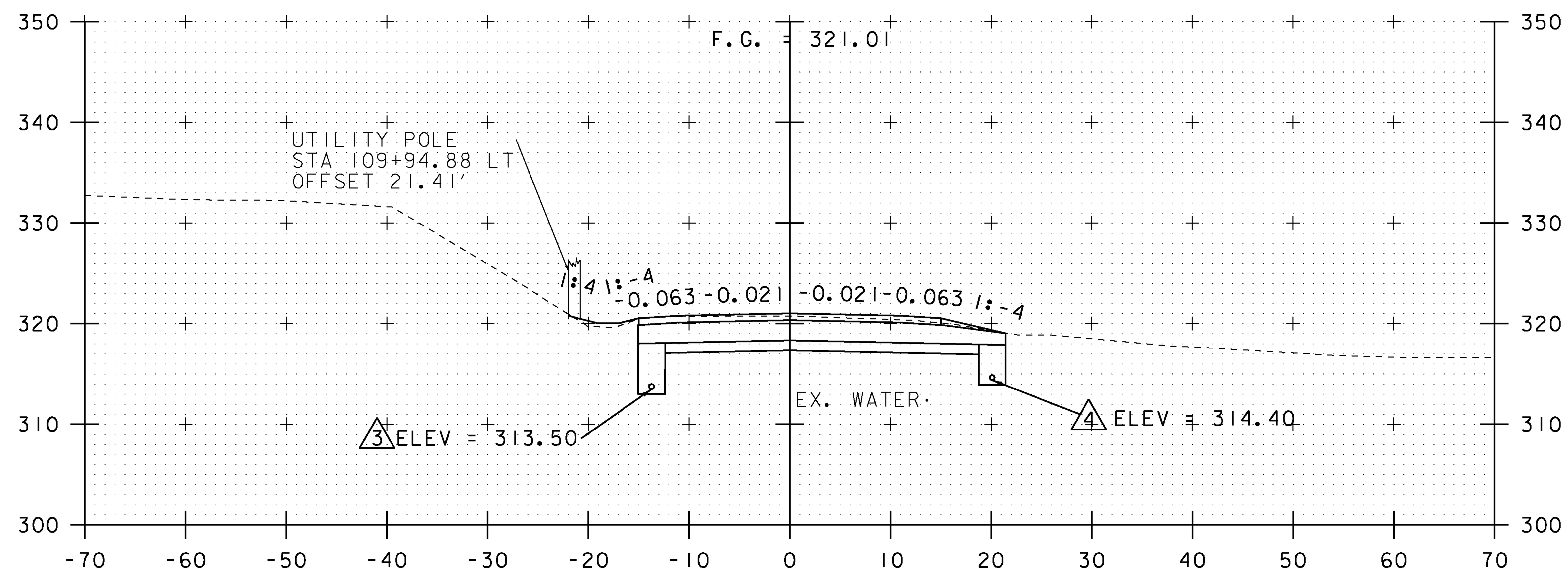
EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

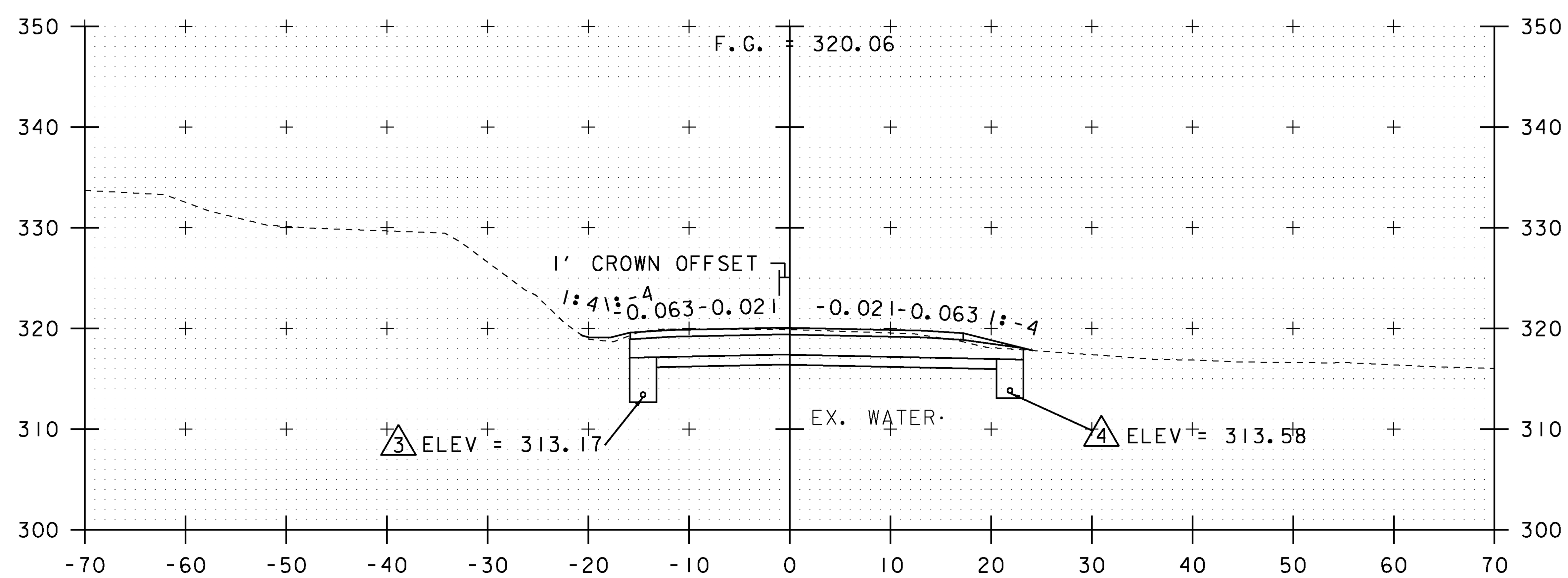


STA. 108+00 TO STA. 108+50

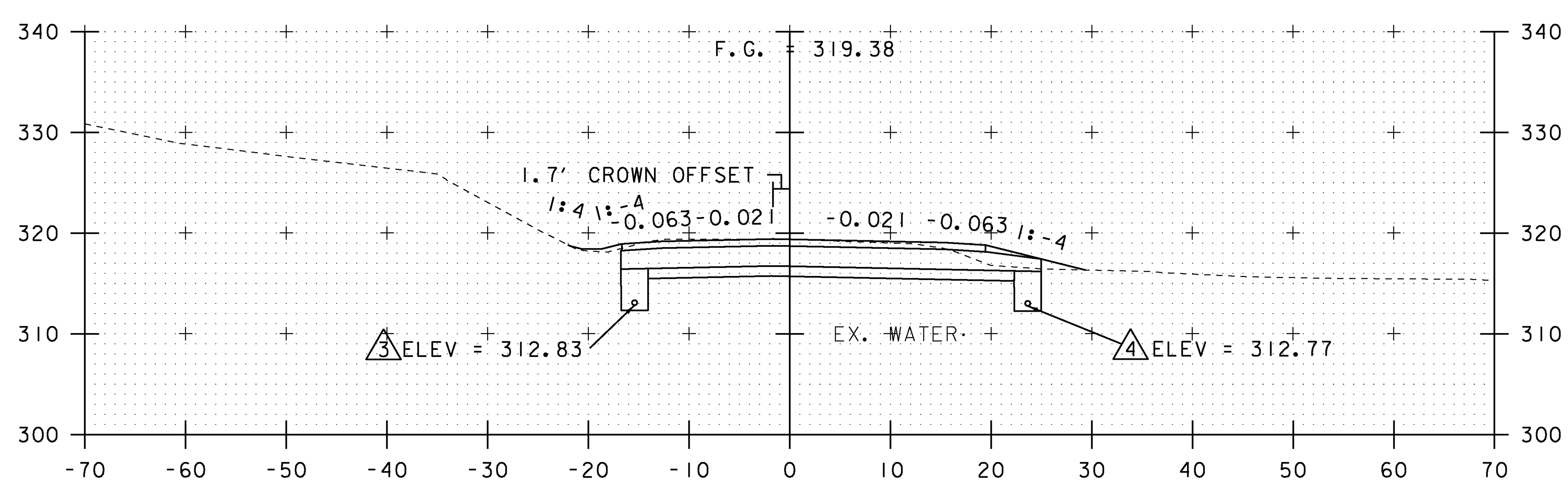
PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289xsl.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
US ROUTE 7 CROSS SECTION SHEET 10	SHEET 87 OF 104



110+00



109+50



109+00

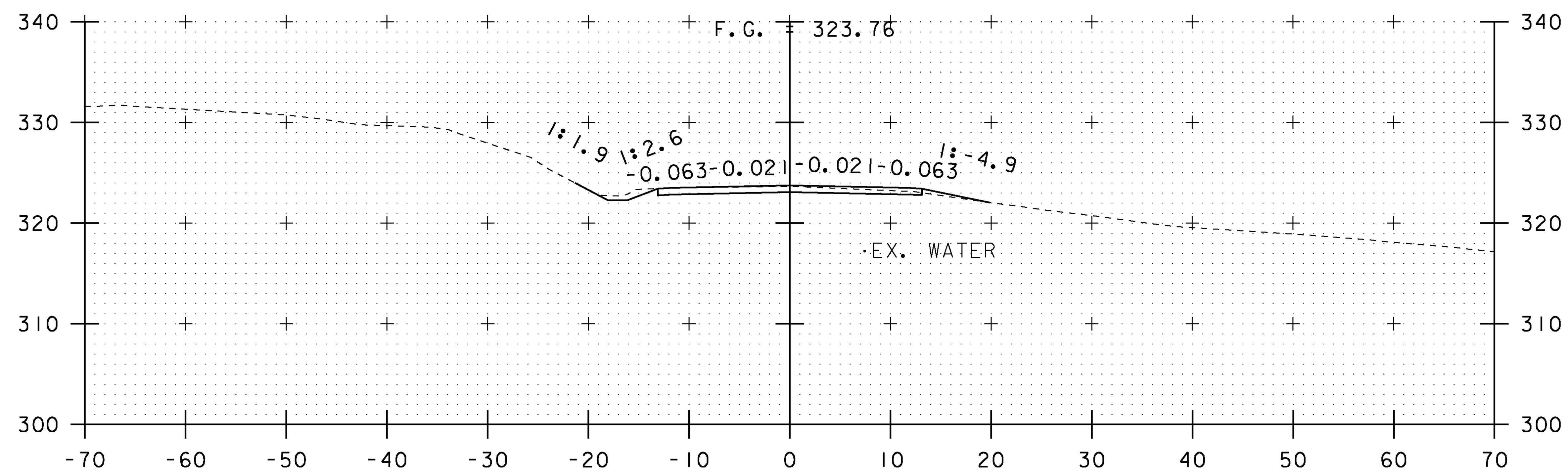
NOTE:
DRAINAGE FEATURES ARE NOT PROJECTED ONTO CROSS SECTIONS, PLEASE REFER TO DRAINAGE LAYOUT AND DRAINAGE PROFILE SHEETS FOR DETAILED INFORMATION (TYP.)

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

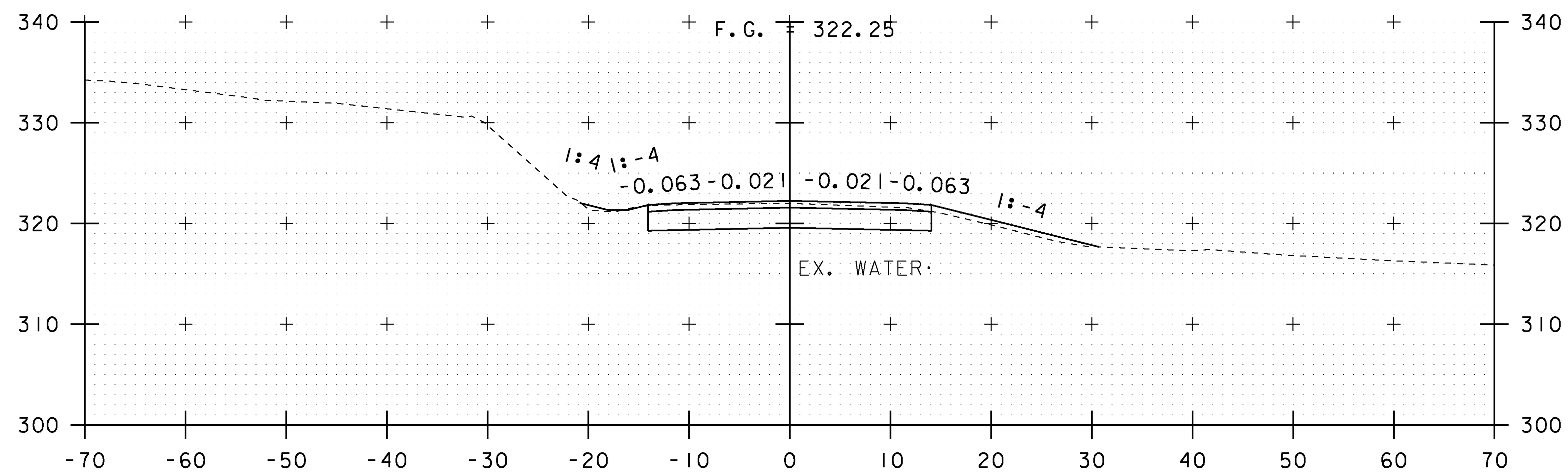
0 10 20
SCALE

STA. 109+00 TO STA. 110+00

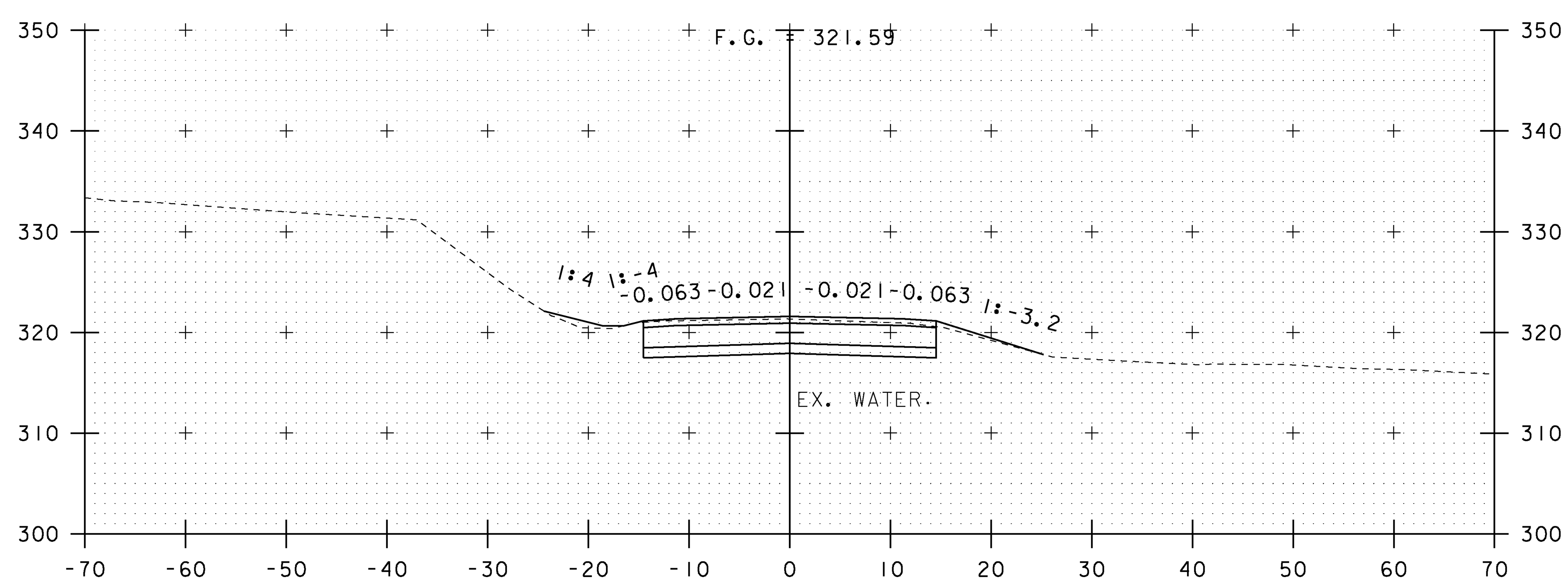
PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289xsl.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
US ROUTE 7 CROSS SECTION SHEET 11	SHEET 88 OF 104



111+00

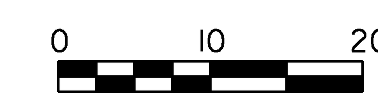


110+50



110+25
END PROJECT
BEGIN APPROACH

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

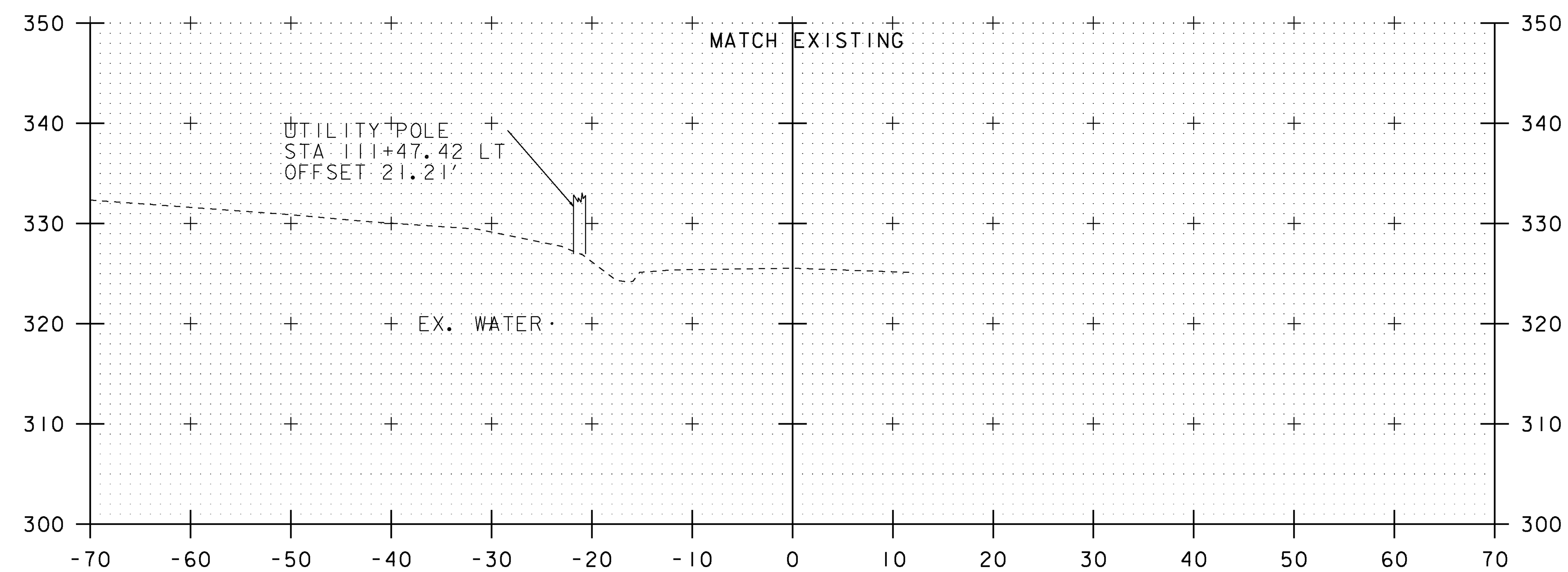


SCALE

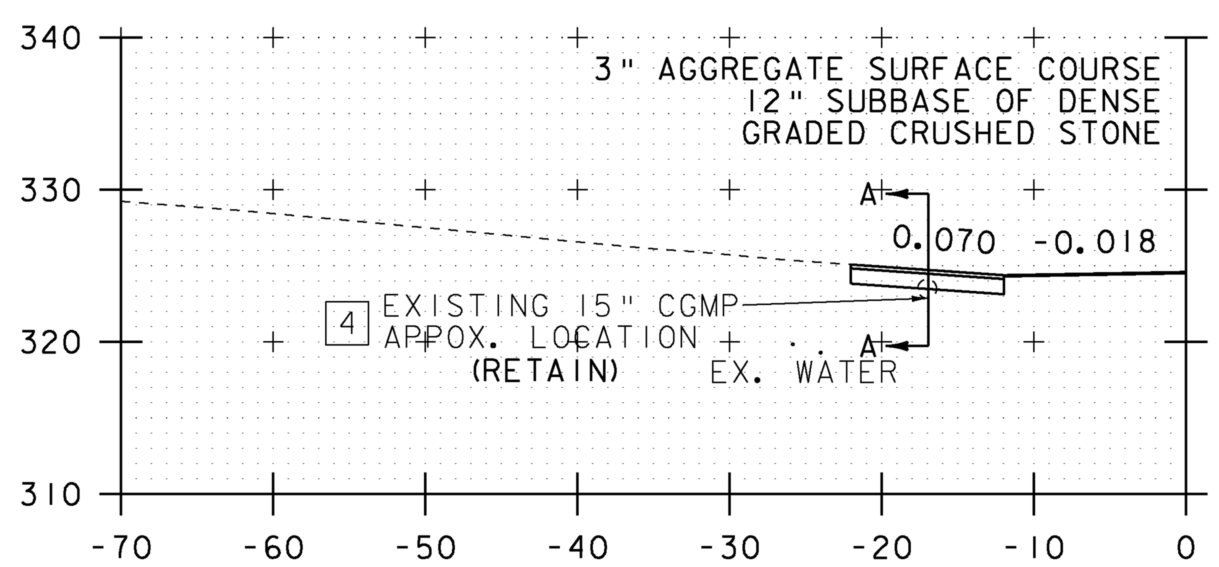
NOTE:
DRAINAGE FEATURES ARE NOT PROJECTED ONTO CROSS SECTIONS, PLEASE REFER TO DRAINAGE LAYOUT AND DRAINAGE PROFILE SHEETS FOR DETAILED INFORMATION (TYP.)

STA. 110+25 TO STA. 111+00

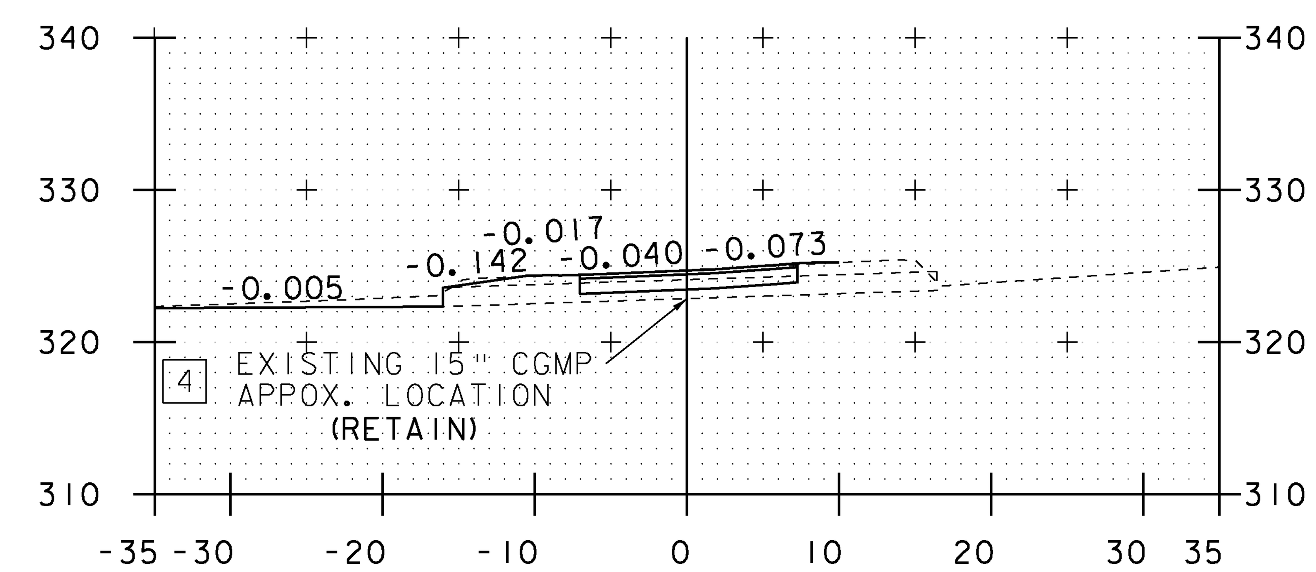
PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289xsl.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
US ROUTE 7 CROSS SECTION SHEET 12	SHEET 89 OF 104



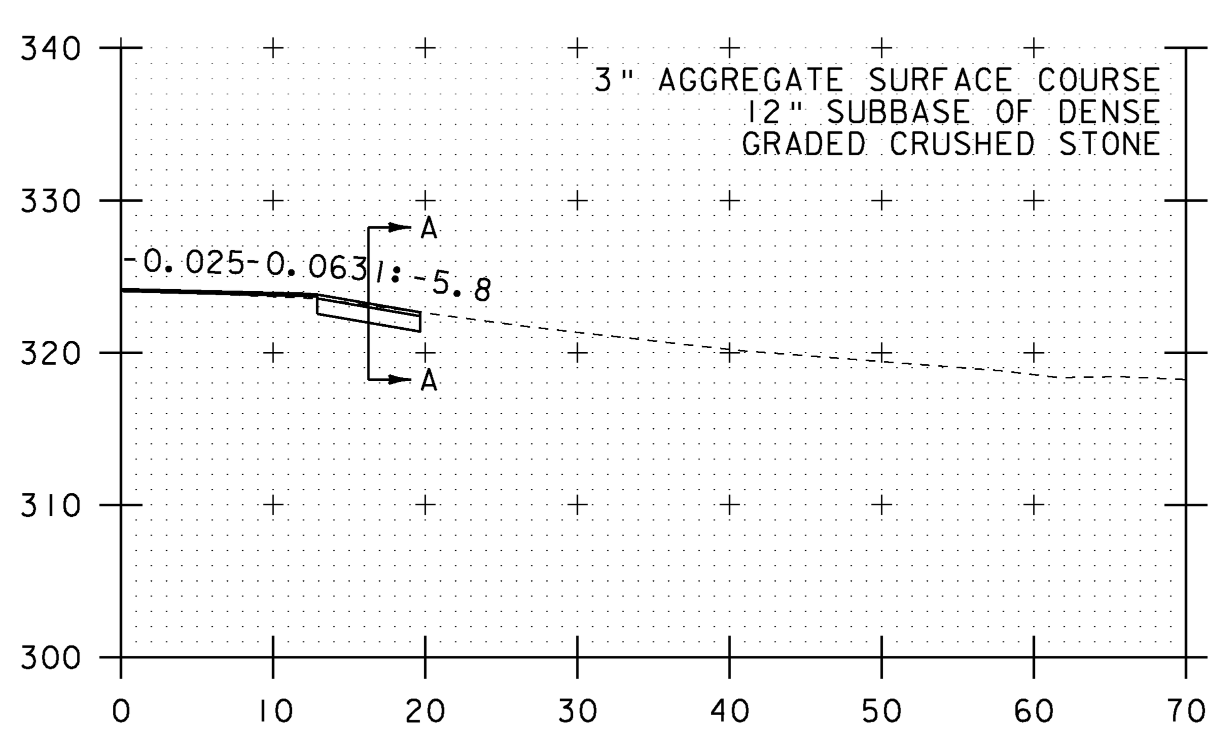
111+50
END APPROACH



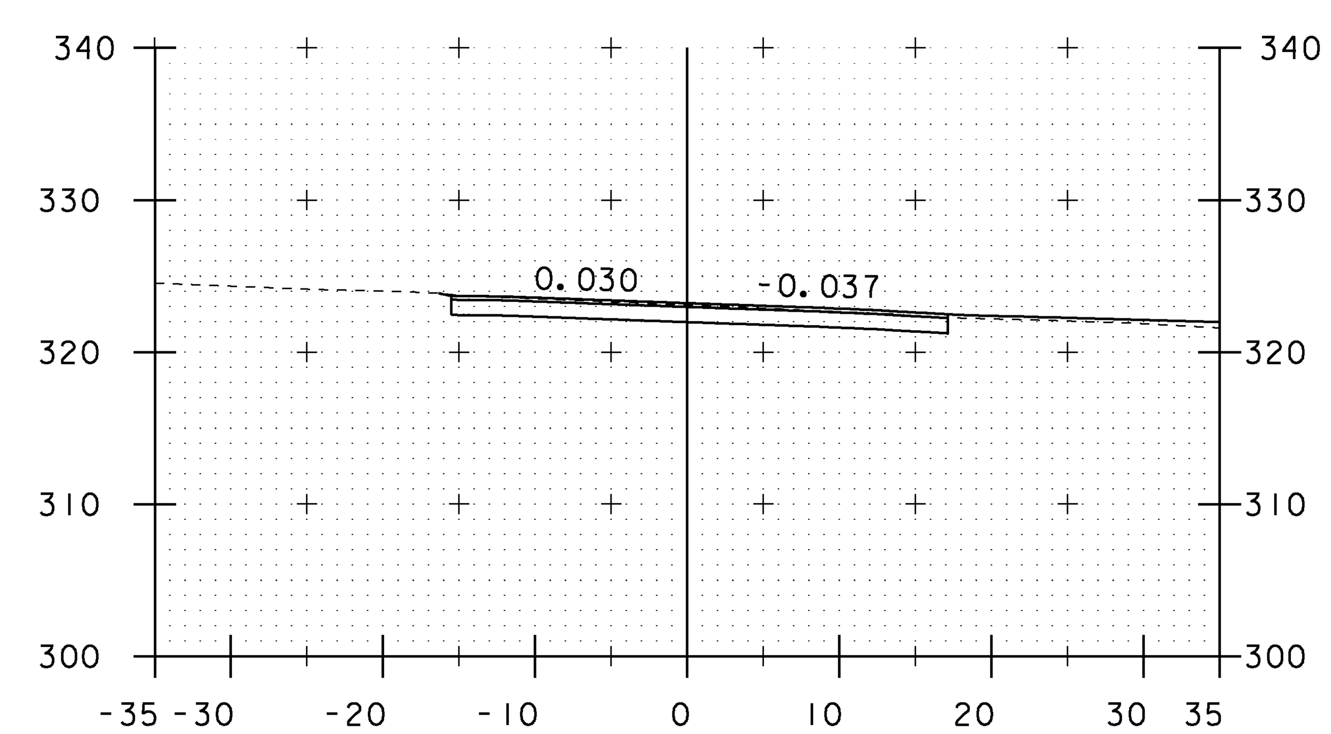
111+24.25
GRAVEL DRIVE LT



SECTION A-A

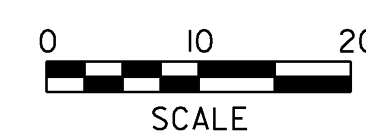


111+12.33
GRAVEL DRIVE RT



SECTION A-A

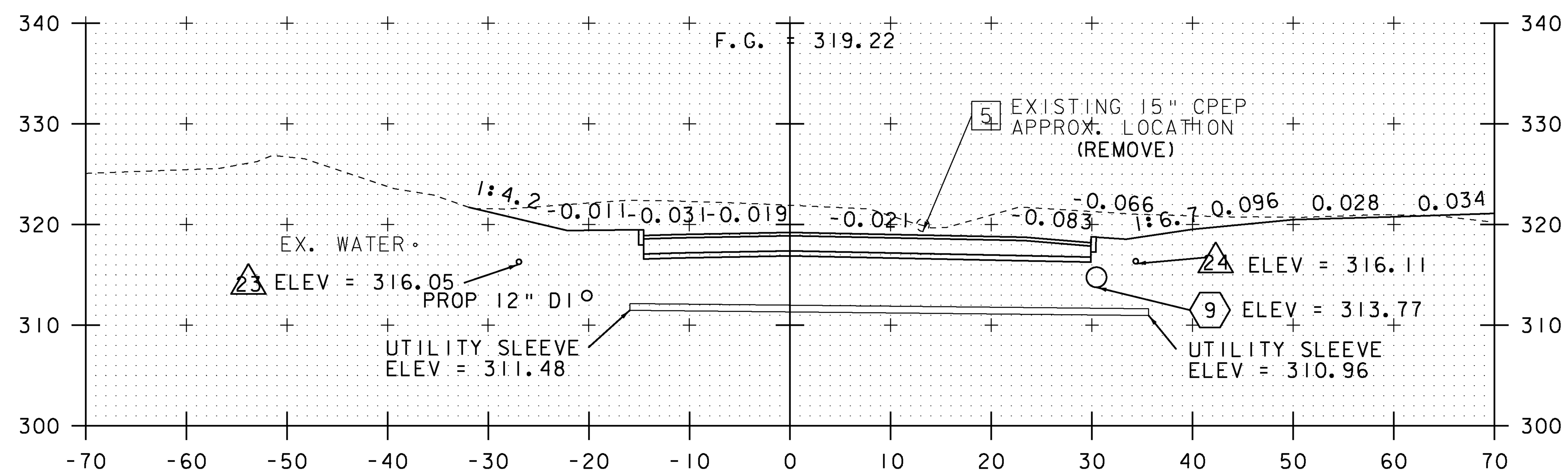
EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104



NOTE:
DRAINAGE FEATURES ARE NOT PROJECTED ONTO CROSS SECTIONS, PLEASE REFER TO DRAINAGE LAYOUT AND DRAINAGE PROFILE SHEETS FOR DETAILED INFORMATION (TYP.)

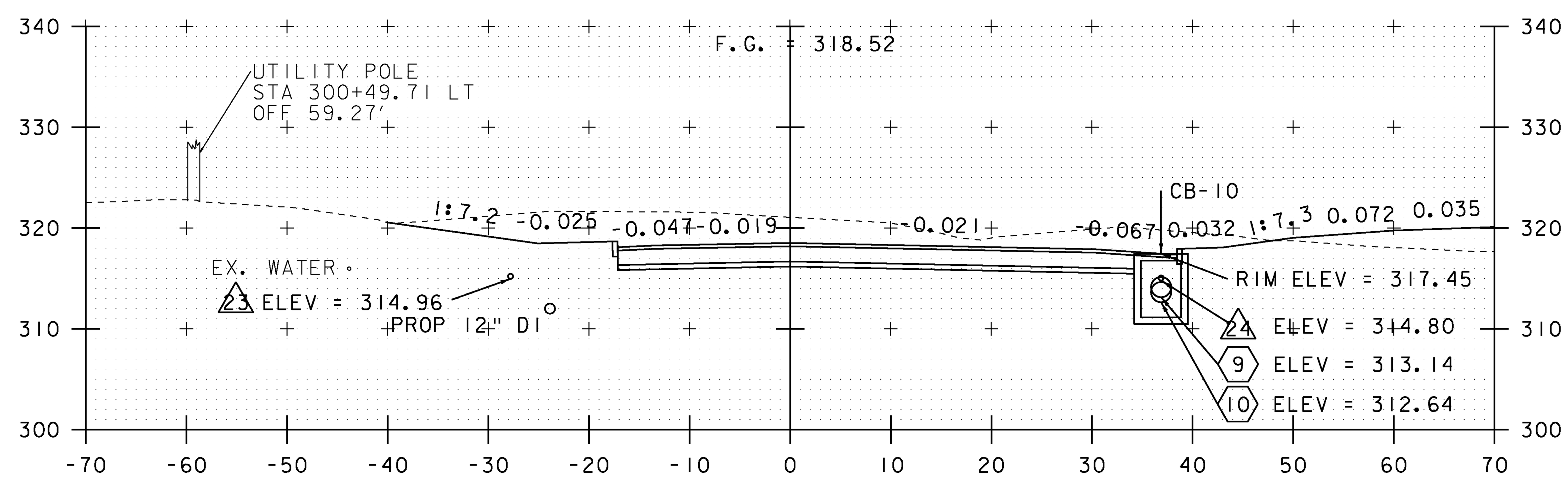
STA. 111+12.33 TO STA. 111+50

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289xsl.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
US ROUTE 7 CROSS SECTION SHEET 13	SHEET 90 OF 104

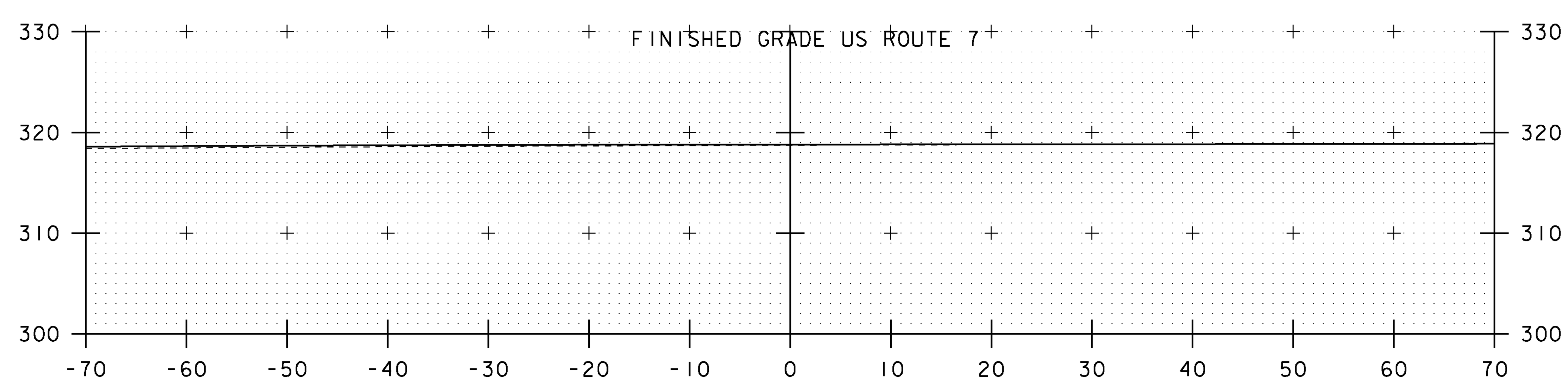


300+60

8" DIAMETER UTILITY SLEEVE



300+50



300+00

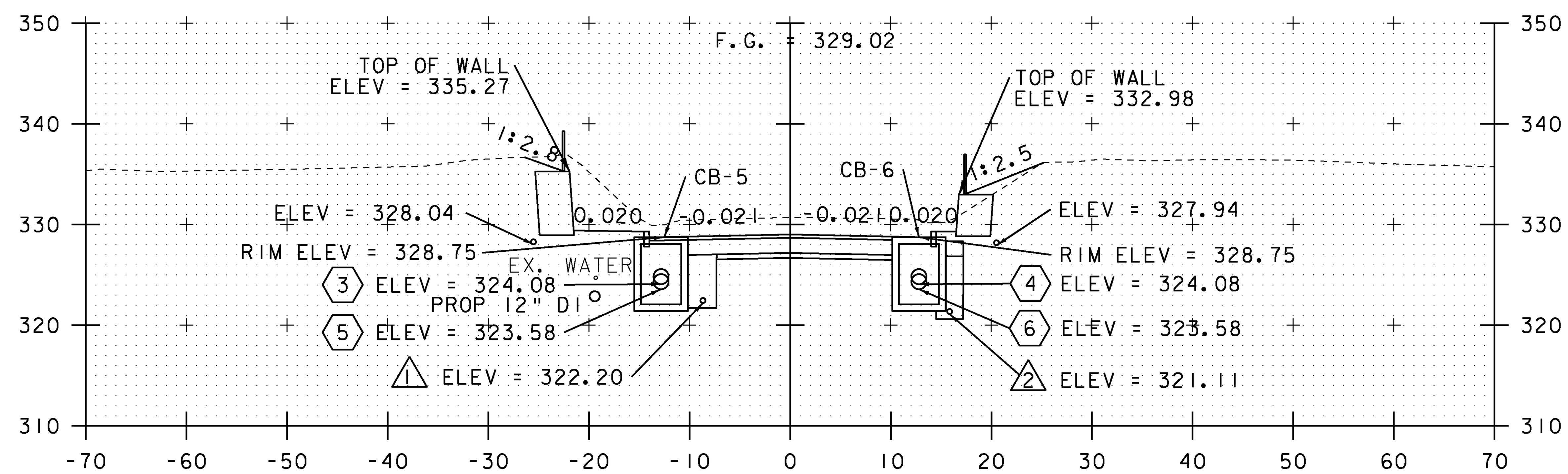
EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

0 10 20
SCALE

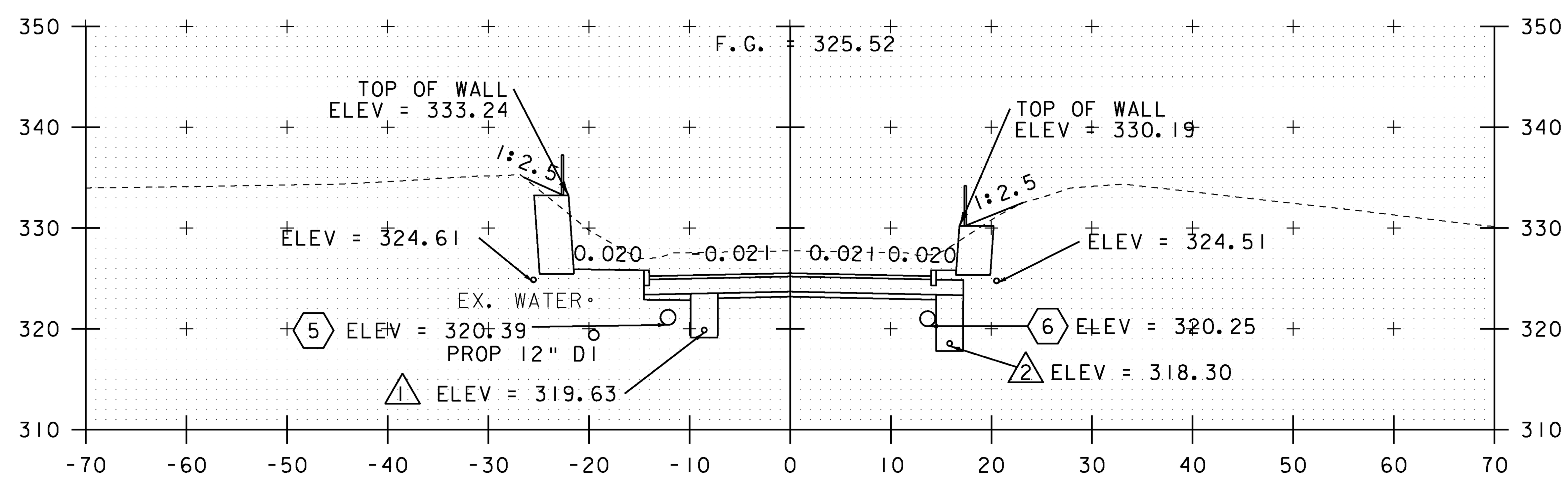
NOTE:
DRAINAGE FEATURES ARE NOT PROJECTED ONTO CROSS SECTIONS, PLEASE REFER TO DRAINAGE LAYOUT AND DRAINAGE PROFILE SHEETS FOR DETAILED INFORMATION (TYP.)

STA. 300+00 TO STA. 300+60

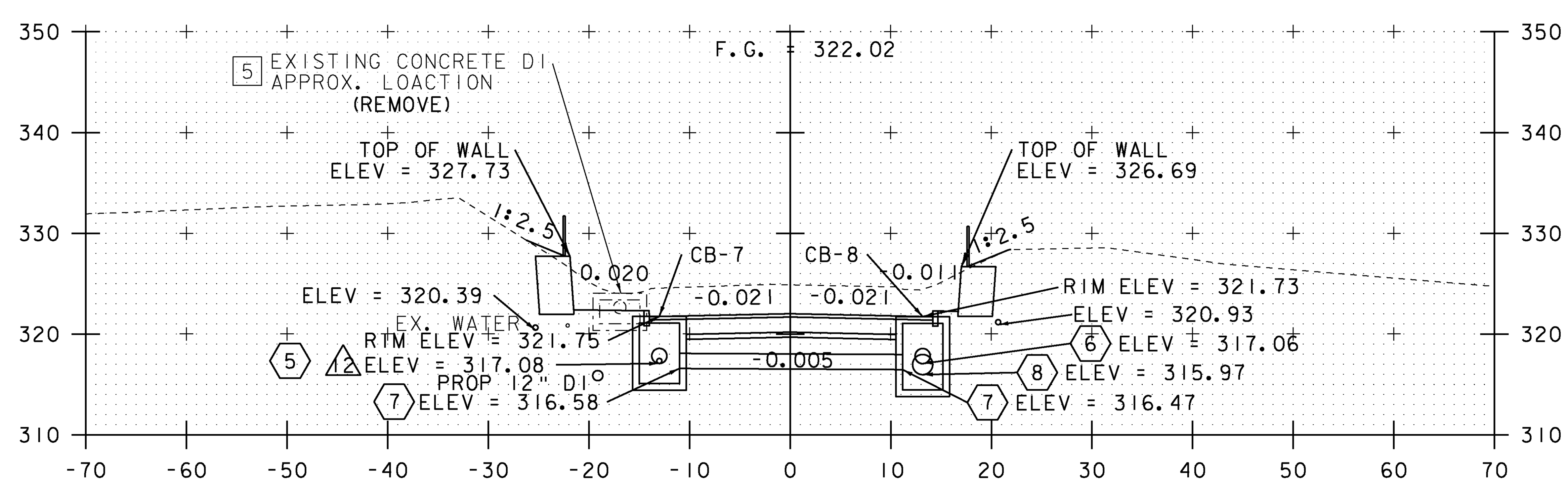
PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289xsl.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
LAKE ROAD CROSS SECTION SHEET 1	SHEET 91 OF 104



302+00

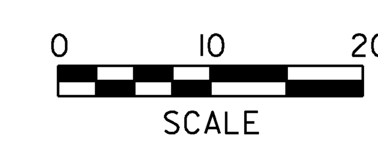


301+50



301+00

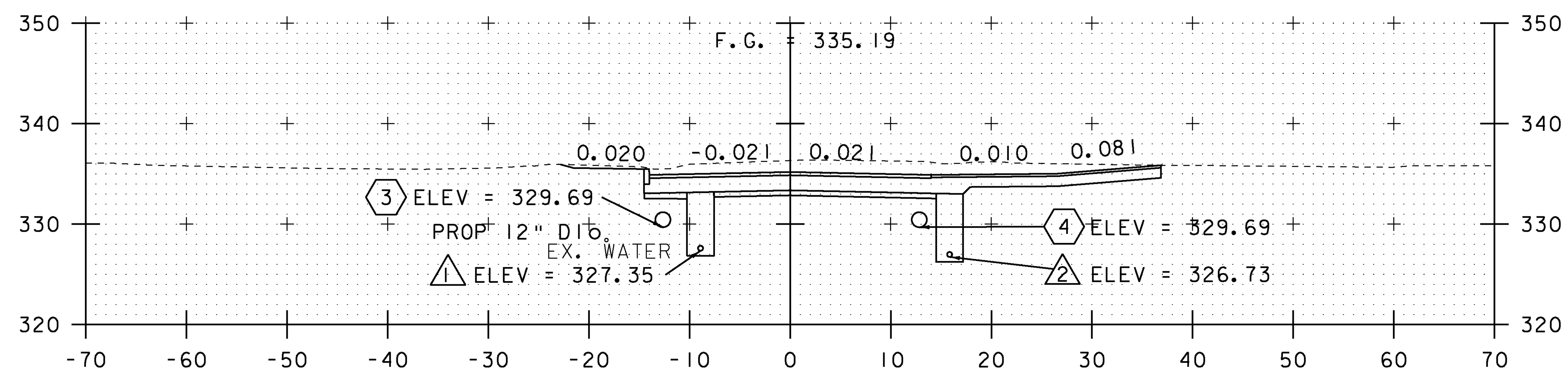
EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104



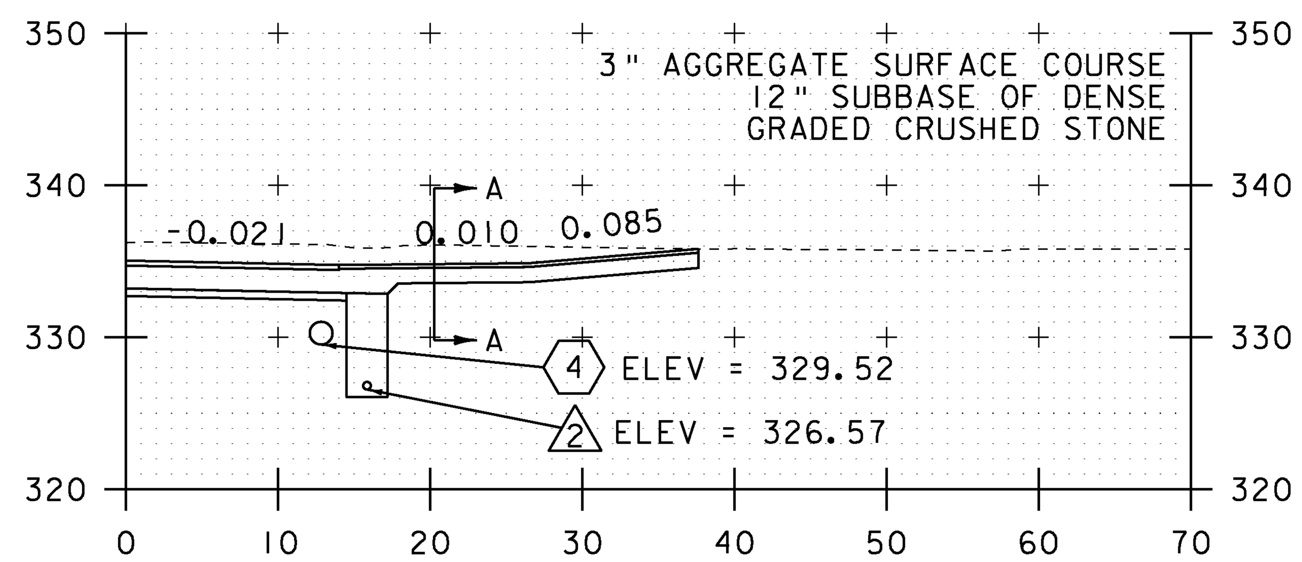
NOTE:
DRAINAGE FEATURES ARE NOT PROJECTED ONTO CROSS SECTIONS, PLEASE REFER TO DRAINAGE LAYOUT AND DRAINAGE PROFILE SHEETS FOR DETAILED INFORMATION (TYP.)

STA. 301+00 TO STA. 302+00

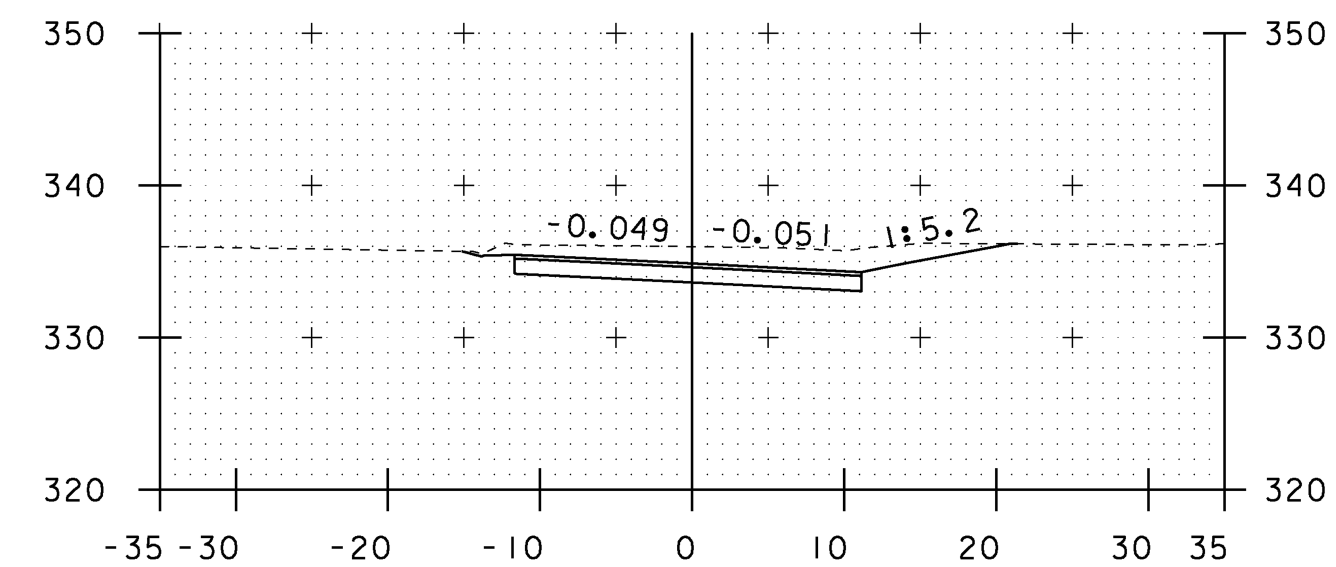
PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289xsl.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
LAKE ROAD CROSS SECTION SHEET 2	SHEET 92 OF 104



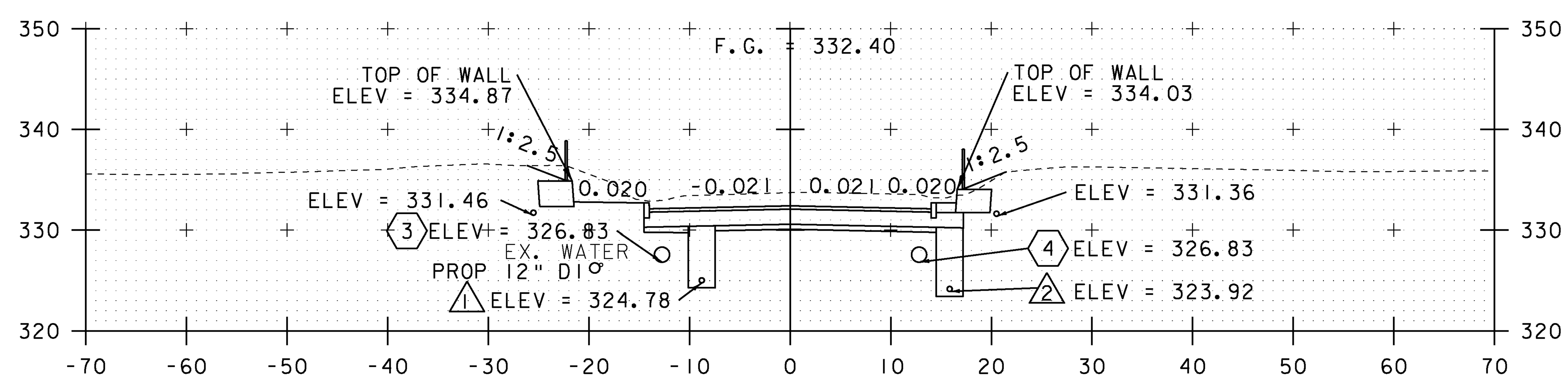
303+00



302+97.06
GRAVEL DRIVE RT



SECTION A-A



302+50

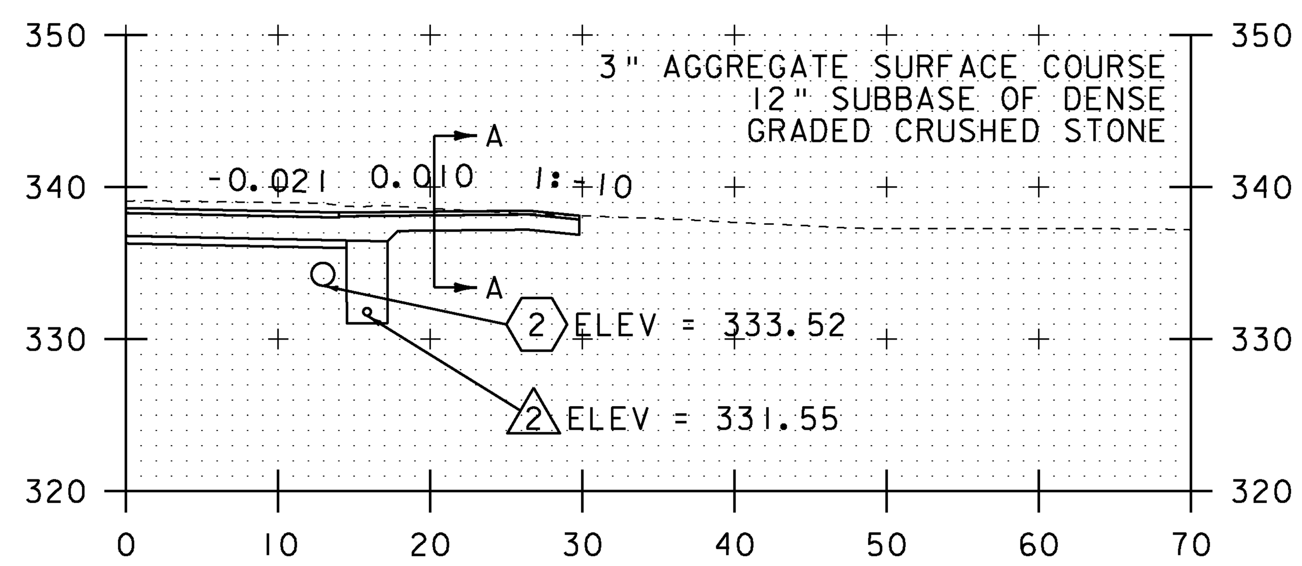
EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

0 10 20
SCALE

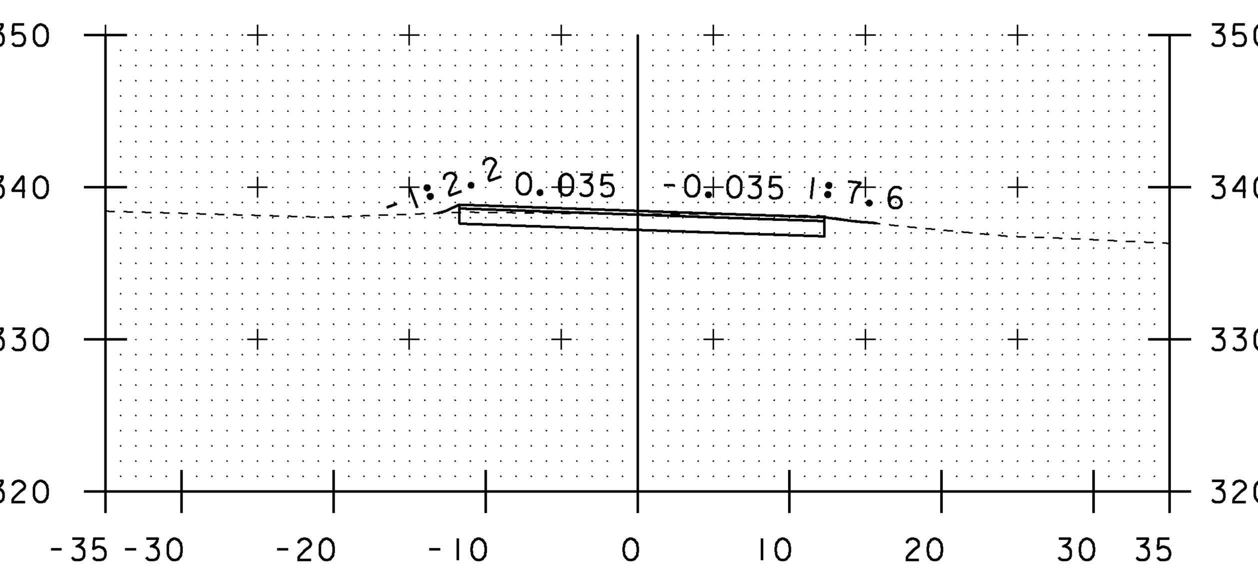
NOTE:
DRAINAGE FEATURES ARE NOT PROJECTED ONTO CROSS SECTIONS, PLEASE REFER TO DRAINAGE LAYOUT AND DRAINAGE PROFILE SHEETS FOR DETAILED INFORMATION (TYP.)

STA. 302+50 TO STA. 303+00

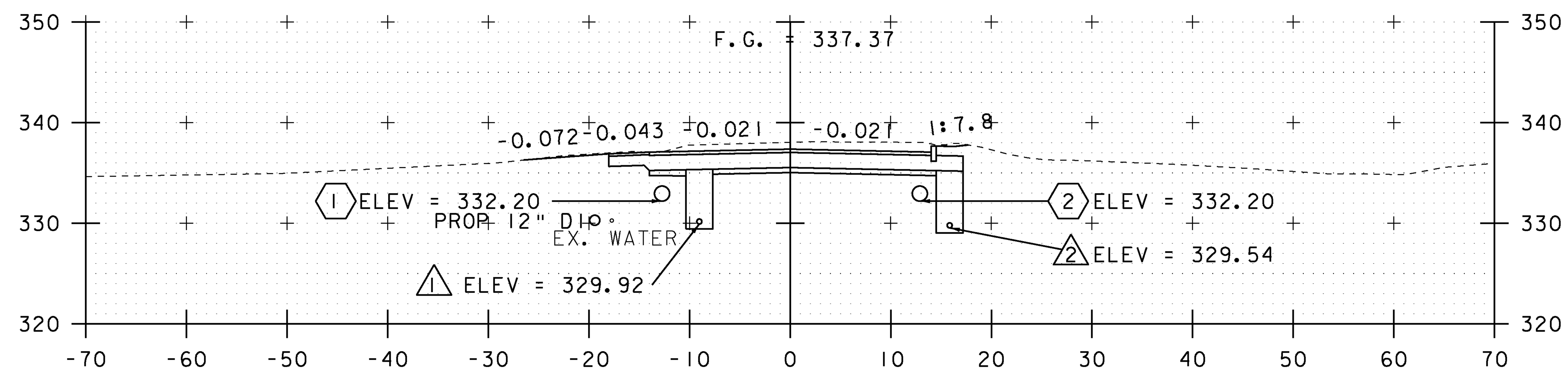
PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289xsl.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
LAKE ROAD CROSS SECTION SHEET 3	SHEET 93 OF 104



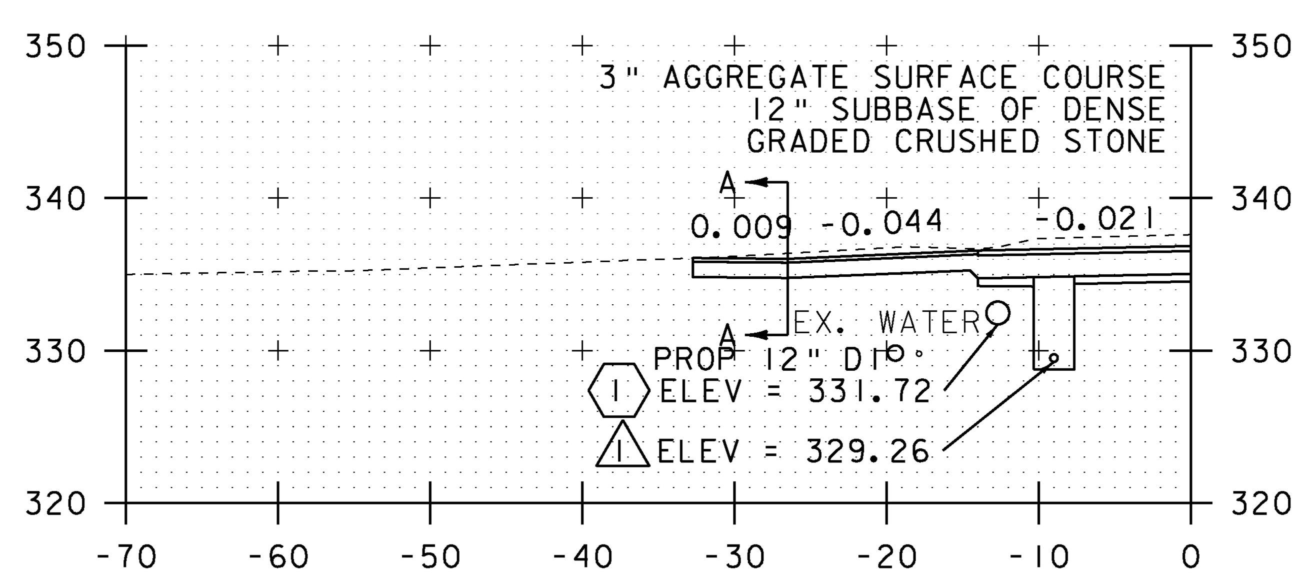
303+85.78
GRAVEL DRIVE RT



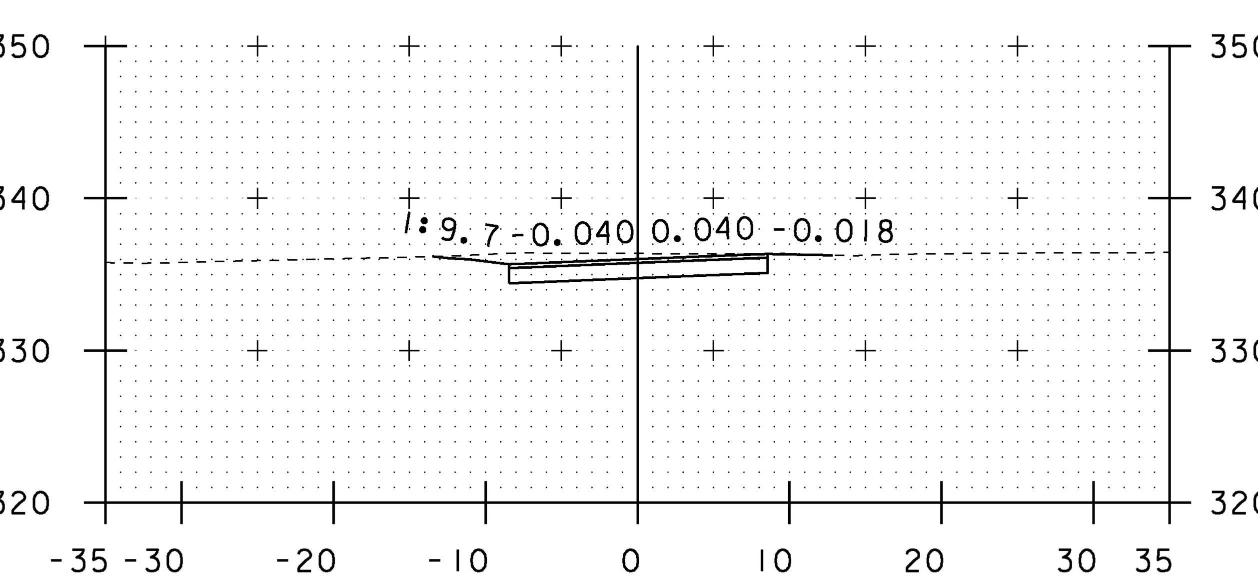
SECTION A-A



303+50



303+37.16
GRAVEL DRIVE LT



SECTION A-A

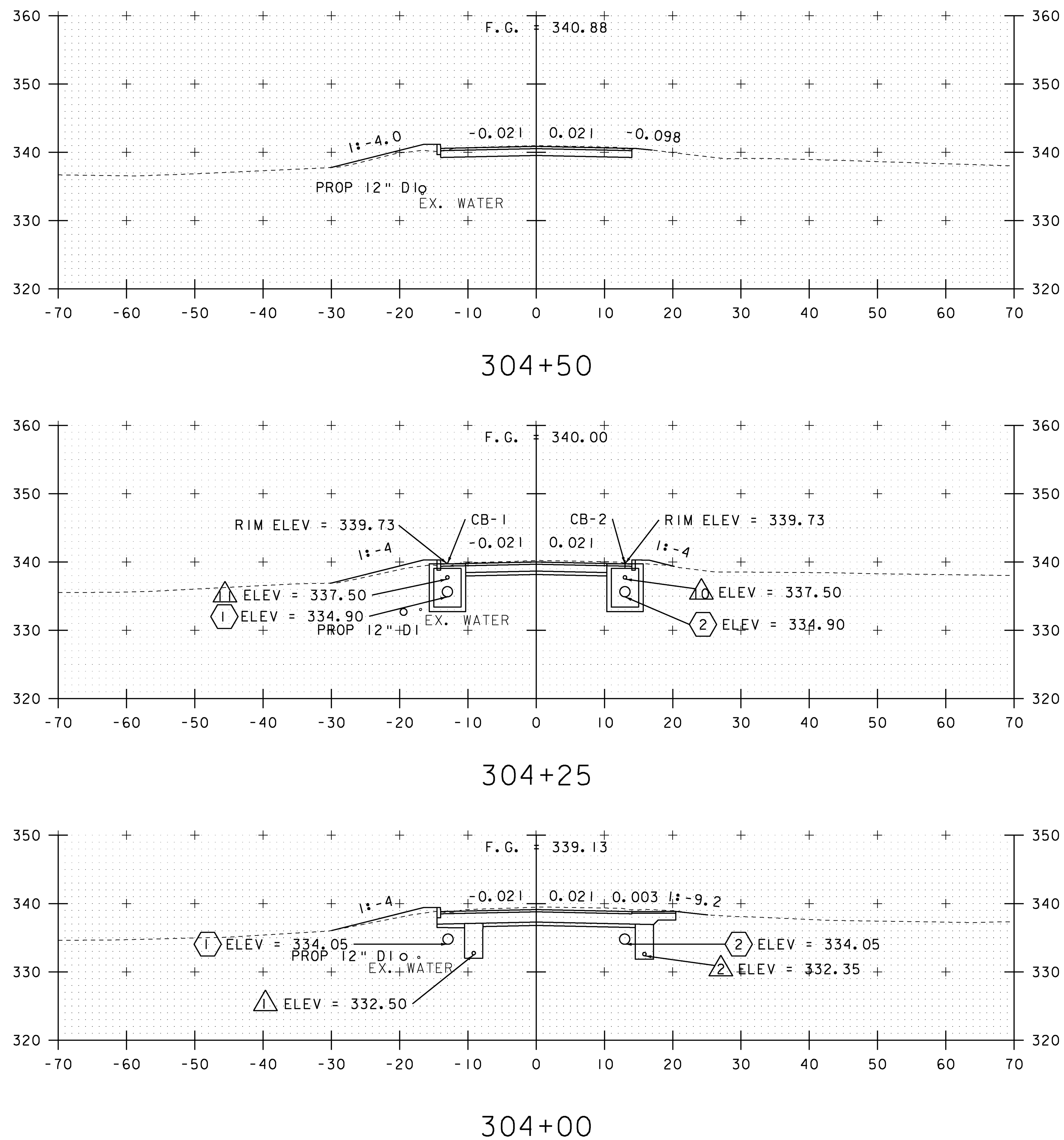
EXISTING & PROPOSED WATERLINES
ARE FOR REFERENCE ONLY. PLEASE
REFER TO WATERLINE SHEETS 102-104

0 10 20
SCALE

NOTE:
DRAINAGE FEATURES ARE NOT PROJECTED ONTO
CROSS SECTIONS, PLEASE REFER TO DRAINAGE
LAYOUT AND DRAINAGE PROFILE SHEETS FOR
DETAILED INFORMATION (TYP.)

STA. 303+37.16 TO STA. 303+85.78

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289xsl.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
LAKE ROAD CROSS SECTION SHEET 4	SHEET 94 OF 104



EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

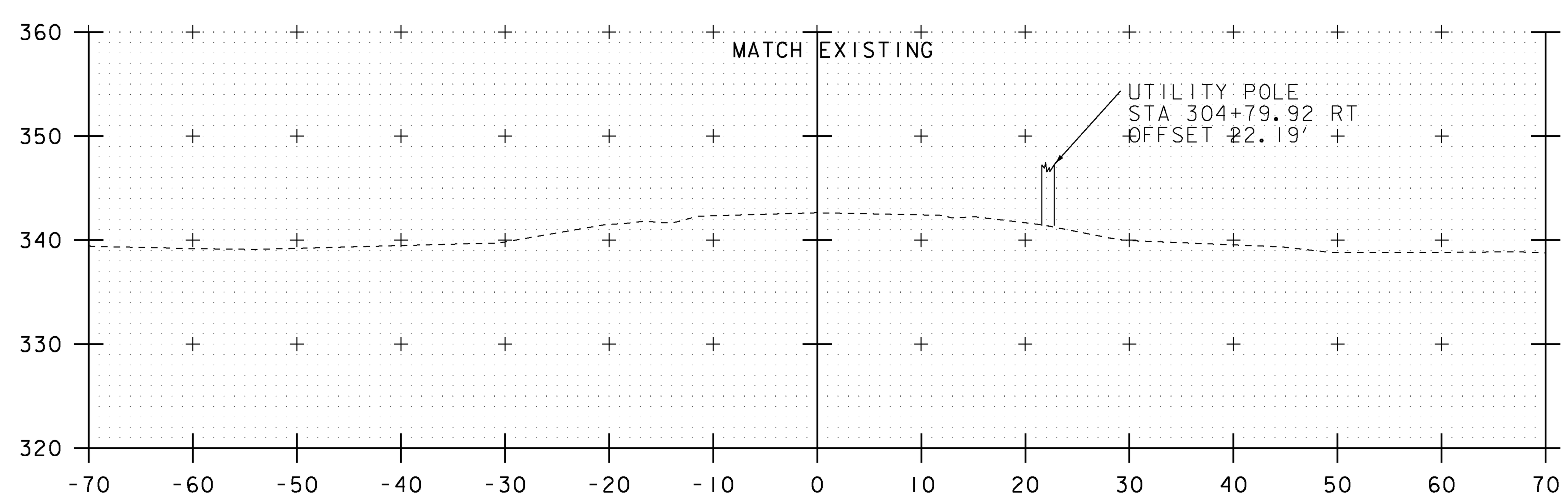
NOTE:
DRAINAGE FEATURES ARE NOT PROJECTED ONTO CROSS SECTIONS, PLEASE REFER TO DRAINAGE LAYOUT AND DRAINAGE PROFILE SHEETS FOR DETAILED INFORMATION (TYP.)

STA. 304+00 TO STA. 304+50

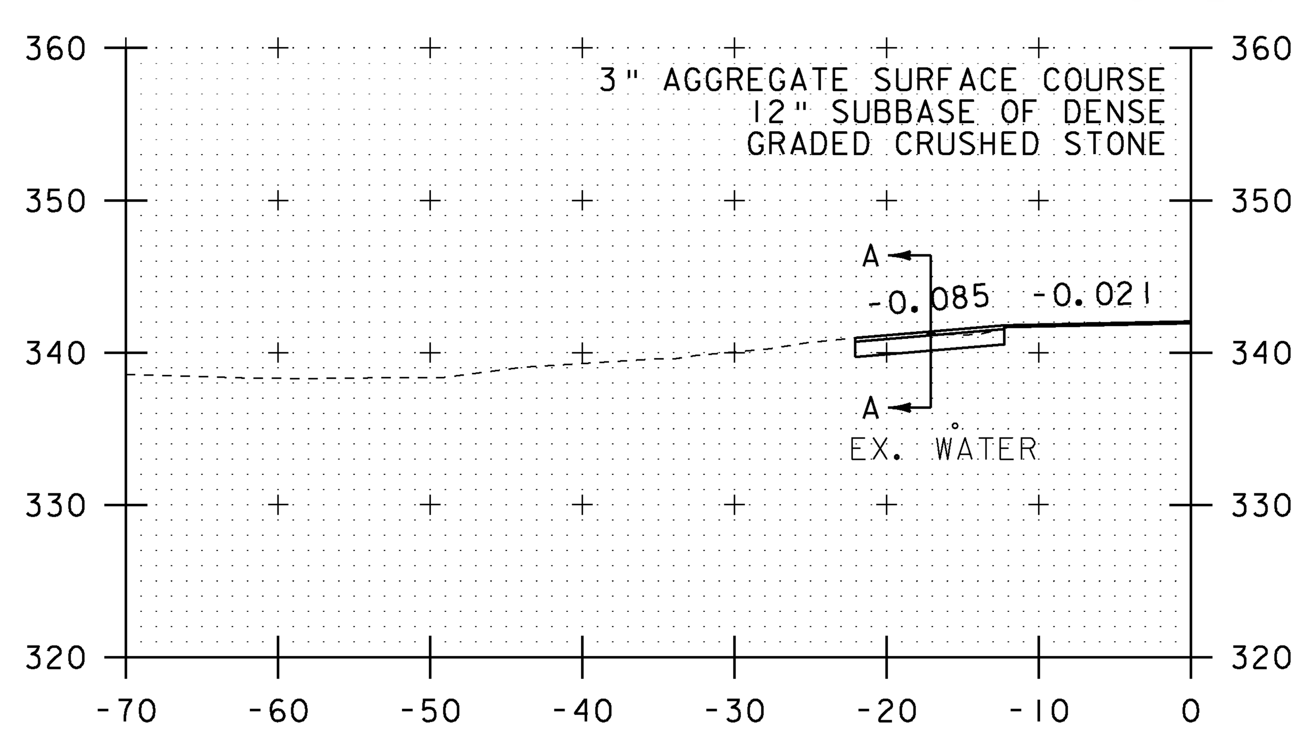
PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)

FILE NAME: t92D289xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: D. LYMAN
LAKE ROAD CROSS SECTION SHEET 5

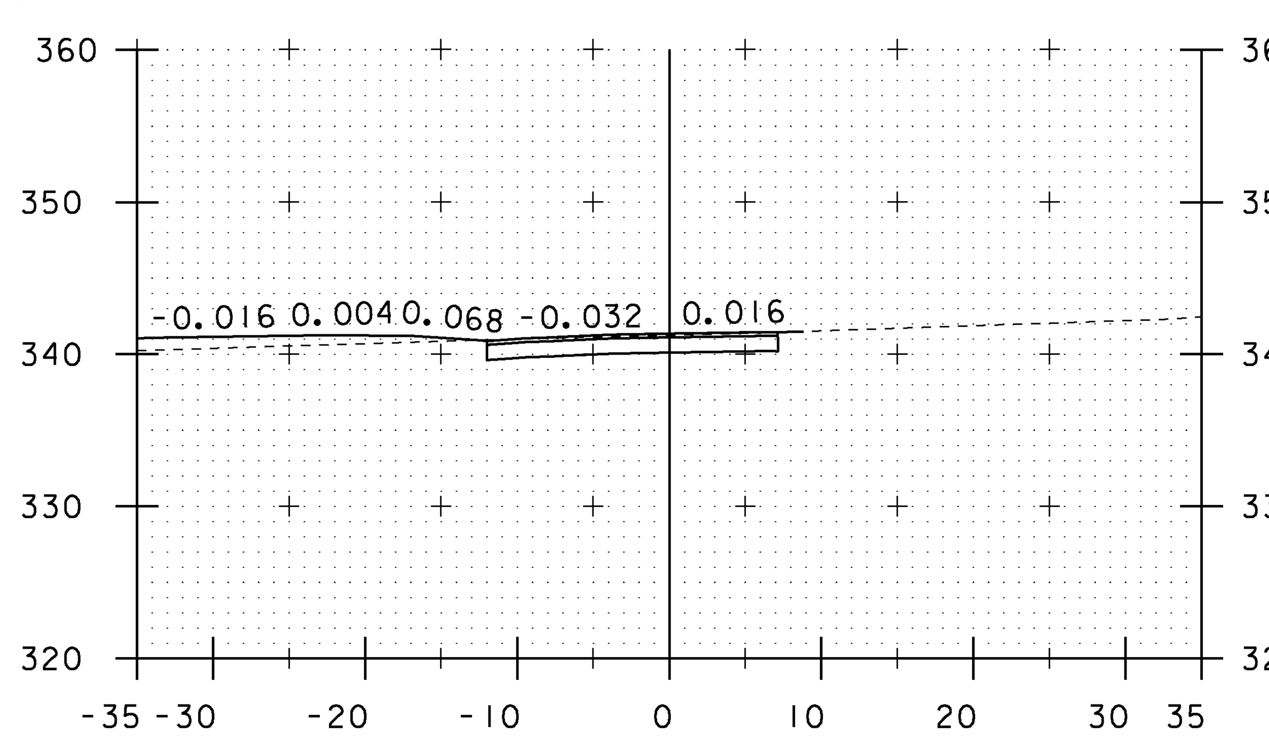
PLOT DATE: 23-FEB-2011
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN



305+00
END APPROACH
ROADWAY CONSTRUCTION



304+83.64
GRAVEL DRIVE LT



SECTION A-A

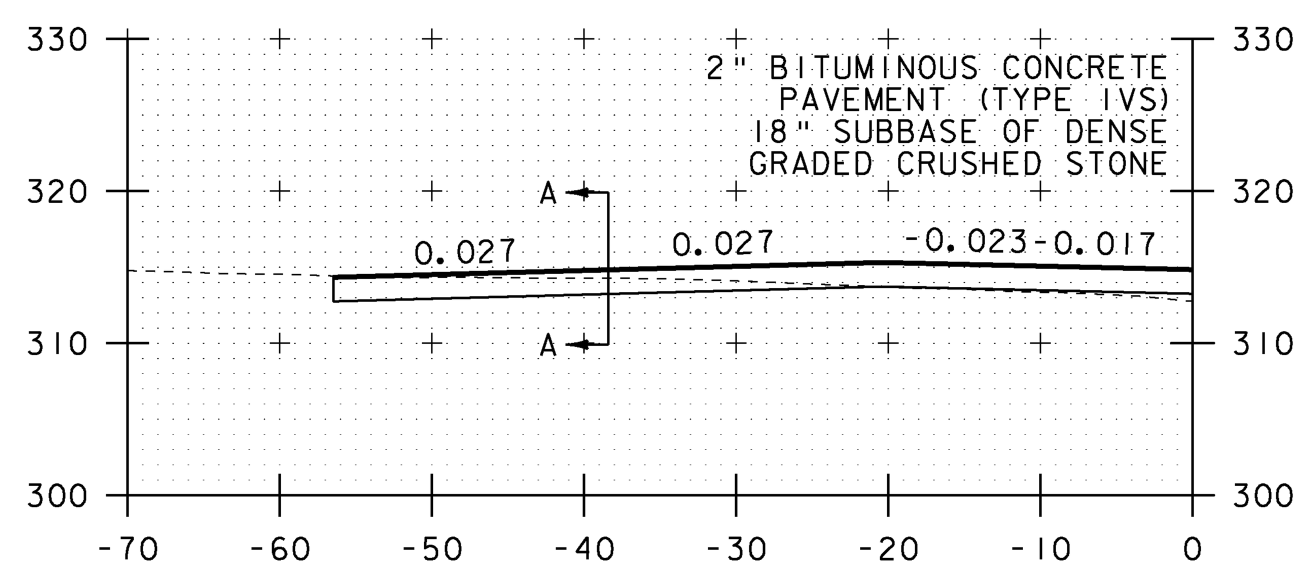
EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

0 10 20
SCALE

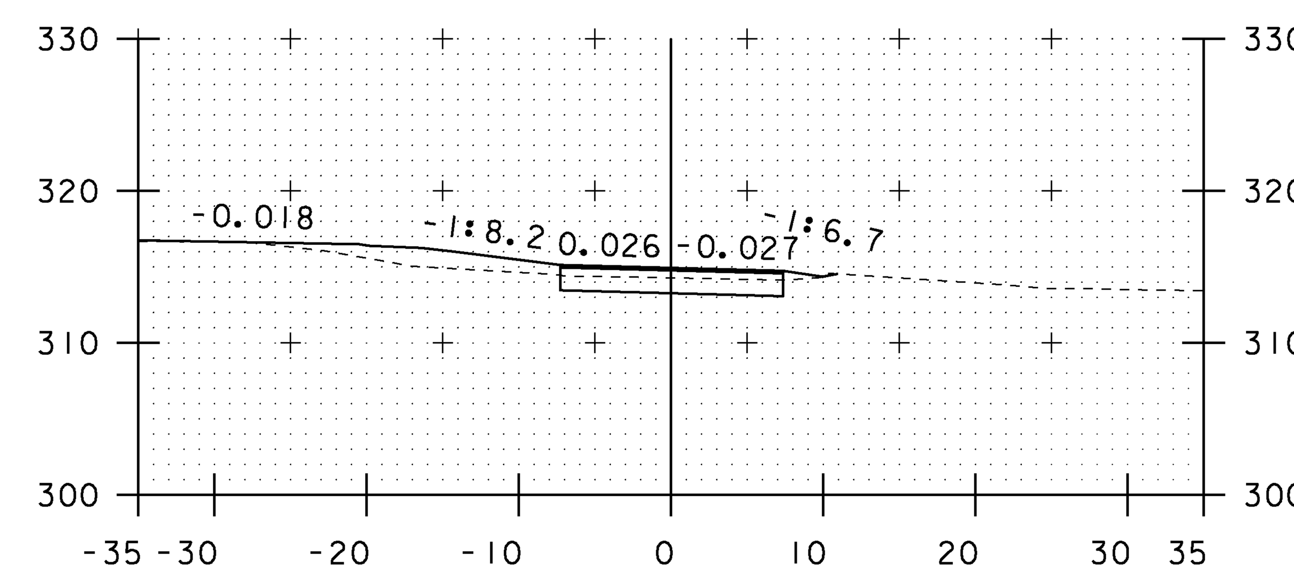
NOTE:
DRAINAGE FEATURES ARE NOT PROJECTED ONTO CROSS SECTIONS, PLEASE REFER TO DRAINAGE LAYOUT AND DRAINAGE PROFILE SHEETS FOR DETAILED INFORMATION (TYP.)

STA. 304+83.64 TO STA. 305+00

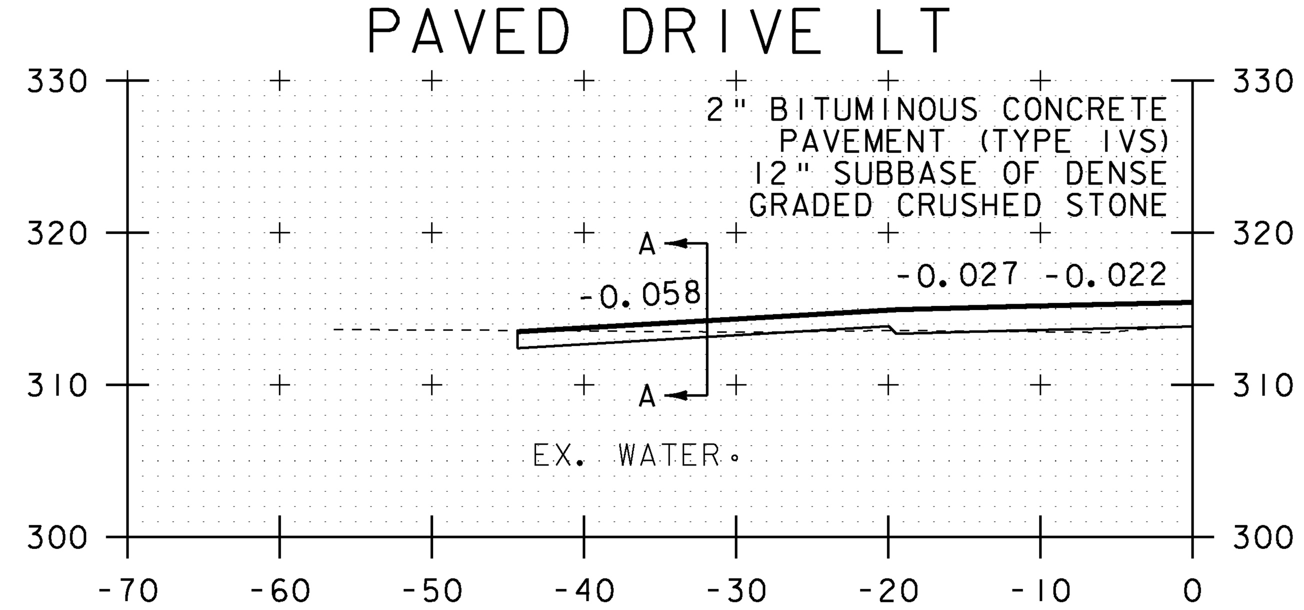
PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289xsl.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
LAKE ROAD CROSS SECTION SHEET 6	SHEET 96 OF 104



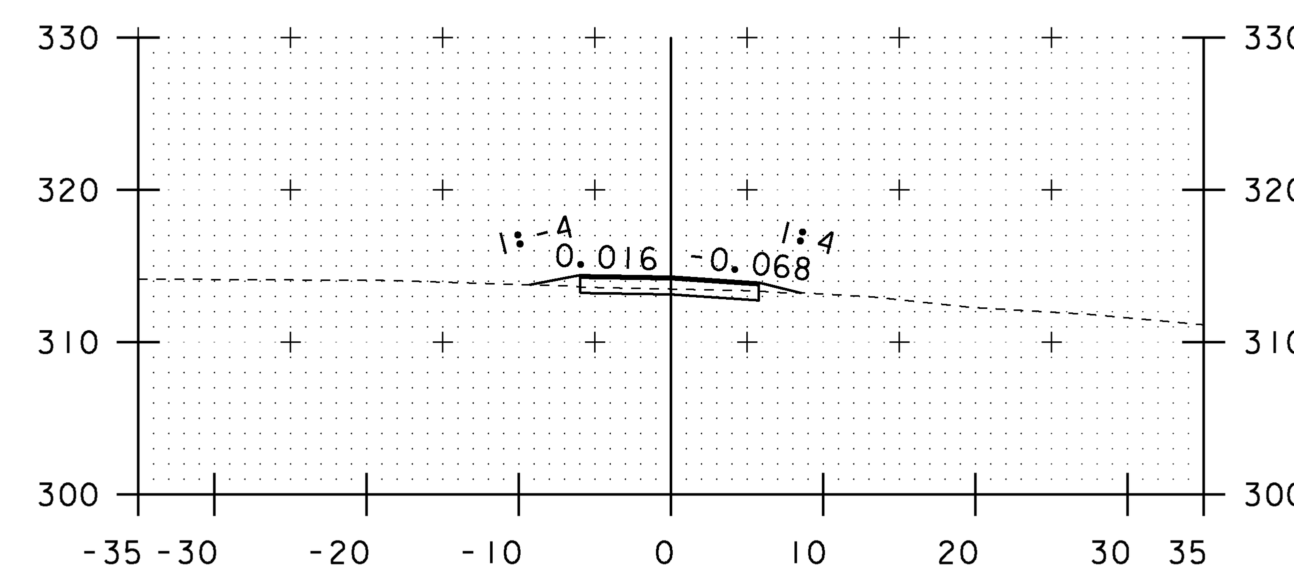
200+49.49
SKEWED 295°33′04.68"
PAVED DRIVE LT



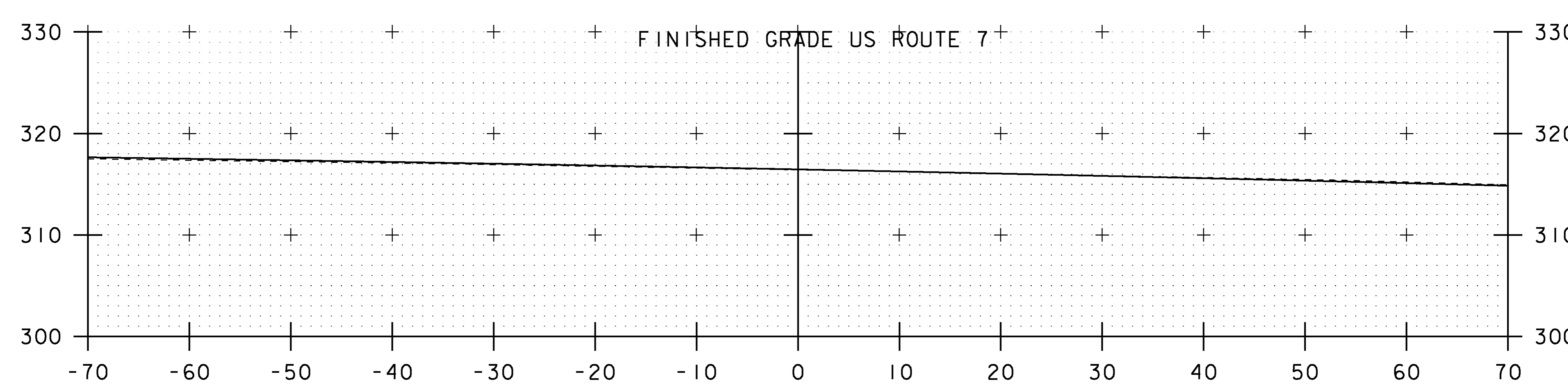
SECTION A-A



200+32.31
SKEWED 52°57′24.51"
PAVED DRIVE LT



SECTION A-A



200+00

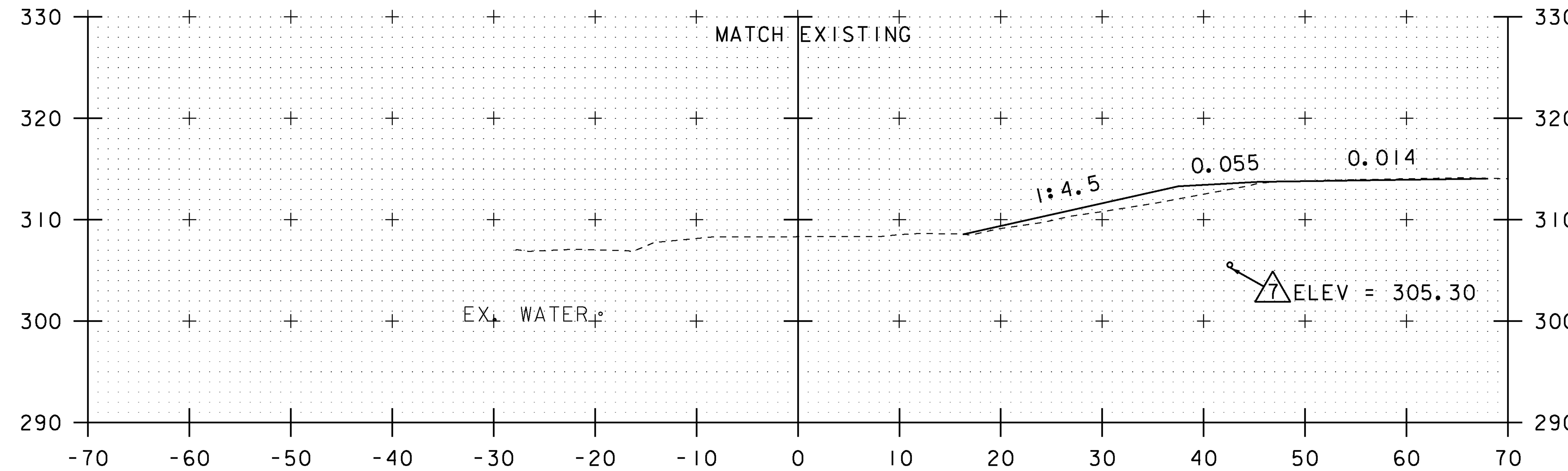
EXISTING & PROPOSED WATERLINES
ARE FOR REFERENCE ONLY. PLEASE
REFER TO WATERLINE SHEETS 102-104

0 10 20
SCALE

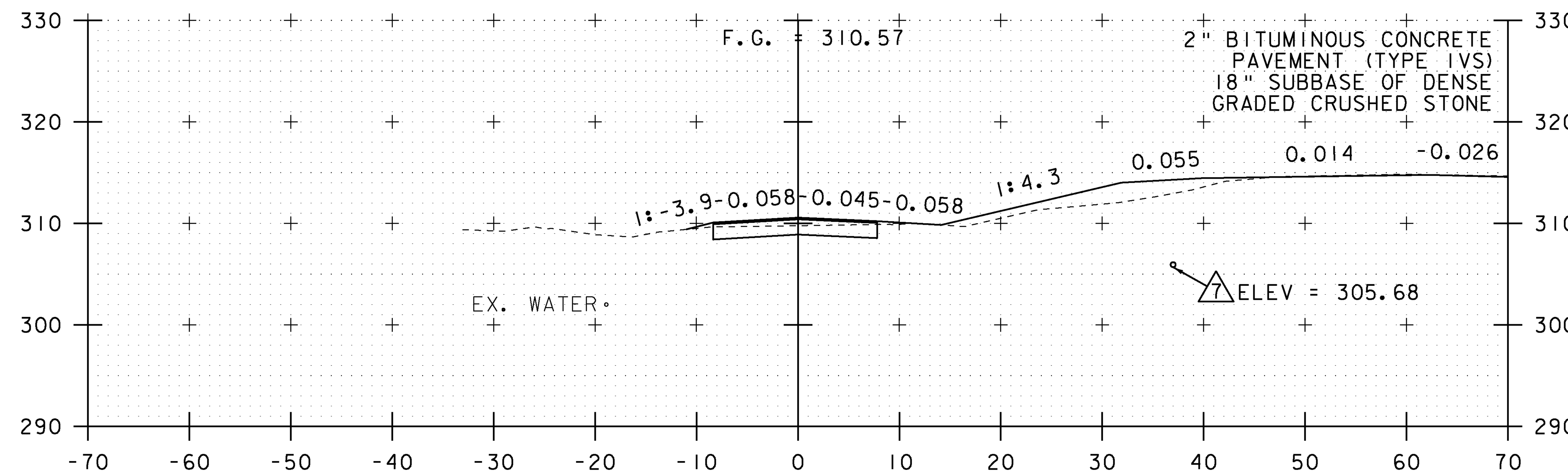
NOTE:
DRAINAGE FEATURES ARE NOT PROJECTED ONTO
CROSS SECTIONS, PLEASE REFER TO DRAINAGE
LAYOUT AND DRAINAGE PROFILE SHEETS FOR
DETAILED INFORMATION (TYP.)

STA. 200+00 TO STA. 200+49.49

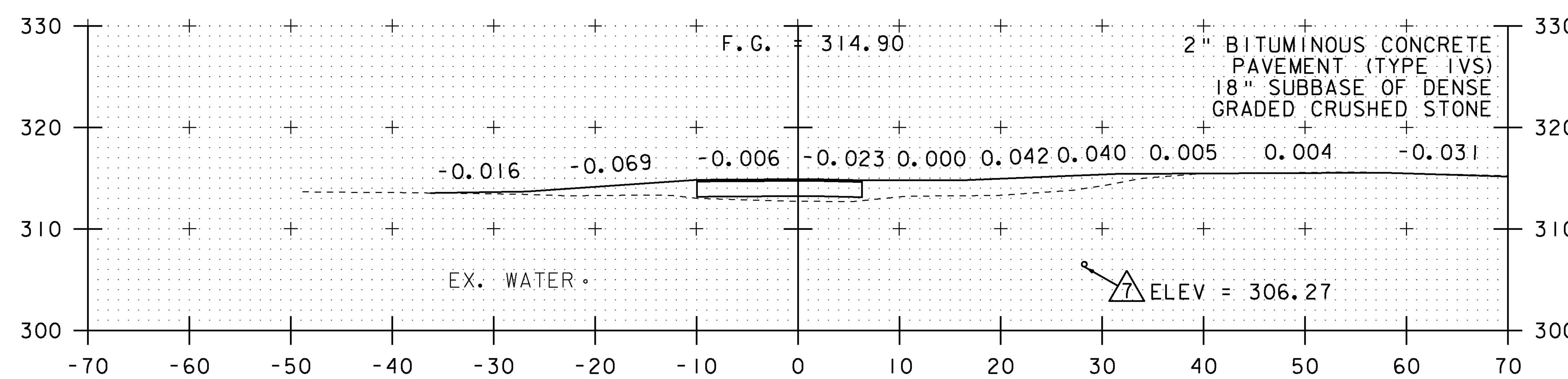
PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289xsl.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
KILBURN ROAD CROSS SECTION SHEET 1	SHEET 97 OF 104



201+25.72
END APPROACH
ROADWAY CONSTRUCTION



201+00



200+50

EXISTING & PROPOSED WATERLINES ARE FOR REFERENCE ONLY. PLEASE REFER TO WATERLINE SHEETS 102-104

0 10 20
SCALE

NOTE:
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STA. 200+50 TO STA. 201+25.72

PROJECT NAME: MILTON	
PROJECT NUMBER: STP 5800 (2)	
FILE NAME: t92D289xsl.dgn	PLOT DATE: 23-FEB-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
KILBURN ROAD CROSS SECTION SHEET 2	SHEET 98 OF 104

SOIL CLASSIFICATION

AASHTO

A1	GRAVEL AND SAND
A2	SILTY OR CLAYEY GRAVEL AND SAND
A3	FINE SAND
A4	SILTY SOIL - LOW COMPRESSIBILITY
A5	SILTY SOIL - HIGHLY COMPRESSIBLE
A6	CLAYEY SOIL - LOW COMPRESSIBILITY
A7	CLAYEY SOIL - HIGHLY COMPRESSIBLE

ROCK QUALITY DESIGNATION

R.Q.D. (%)	ROCK DESCRIPTION
<25	VERY POOR
25 to 50	POOR
51 to 75	FAIR
76 to 90	GOOD
>90	EXCELLENT

SHEAR STRENGTH

UNDRAINED SHEAR STRENGTH IN P.S.F.	CONSISTENCY
<250	VERY SOFT
250-500	SOFT
500-1000	MED. STIFF
1000-2000	STIFF
2000-4000	VERY STIFF
>4000	HARD

CORRELATION GUIDE OF "N" TO DENSITY /CONSISTENCY

DENSITY (GRANULAR SOILS)		CONSISTENCY (COHESIVE SOILS)	
N	DESCRIPTIVE TERM	N	DESCRIPTIVE TERM
<5	VERY LOOSE	<2	VERY SOFT
5-10	LOOSE	2-4	SOFT
11-24	MED. DENSE	5-8	MED. STIFF
25-50	DENSE	9-15	STIFF
>50	VERY DENSE	16-30	VERY STIFF
		31-60	HARD
		>60	VERY HARD

COMMONLY USED SYMBOLS

▼	WATER ELEVATION
⊗	STANDARD PENETRATION BORING
⊕	AUGER BORING
⊙	ROD SOUNDING
S	SAMPLE
N	STANDARD PENETRATION TEST BLOW COUNT PER FOOT FOR: 2" O.D. SAMPLER 1 3/8" I.D. SAMPLER HAMMER WEIGHT OF 140 LBS. HAMMER FALL OF 30"
VS	FIELD VANE SHEAR TEST
US	UNDISTURBED SOIL SAMPLE
B	BLAST
DC	DIAMOND CORE
MD	MUD DRILL
WA	WASH AHEAD
HSA	HOLLOW STEM AUGER
AX	CORE SIZE 1 1/8"
BX	CORE SIZE 1 5/8"
NX	CORE SIZE 2 1/8"
M	DOUBLE TUBE CORE BARREL USED
LL	LIQUID LIMIT
PL	PLASTIC LIMIT
PI	PLASTICITY INDEX
NP	NON PLASTIC
W	MOISTURE CONTENT (DRY WGT. BASIS)
D	DRY
M	MOIST
MTW	MOIST TO WET
W	WET
SAT	SATURATED
BO	BOULDER
GR	GRAVEL
SA	SAND
SI	SILT
CL	CLAY
HP	HARDPAN
LE	LEDGE
NLTD	NO LEDGE TO DEPTH
CNPF	CAN NOT PENETRATE FURTHER
TLOB	TO LEDGE OR BOULDER
NR	NO RECOVERY
REC.	RECOVERY
%REC.	PERCENT RECOVERY
RQD	ROCK QUALITY DESIGNATION
CBR	CALIFORNIA BEARING RATIO
<	LESS THAN
>	GREATER THAN
R	REFUSAL (N>100)

COLOR

blk	BLACK	pnk	PINK
bl	BLUE	pu	PURPLE
brn	BROWN	rd	RED
dk	DARK	tn	TAN
gry	GRAY	wh	WHITE
gn	GREEN	yel	YELLOW
lt	LIGHT	mltc	MULTICOLORED
or	ORANGE		

VTrans Working to Get You There Vermont Agency of Transportation

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-101
SHEET 1 of 1
DATE STARTED: 7/25/07
DATE COMPLETED: 7/25/07

PROJECT NAME: MILTON
SITE NAME: US7 & TH3
STATION: 300+75.00
OFFSET: -27.00
VTSPG: N 784885.92 ft E 1480298.22 ft

PROJECT NUMBER: STP 5800(2)
SITE NUMBER: ROADWAY-INTERSECTION
GROUND ELEVATION: 325.5 ft
GROUNDWATER DEPTH: Hole Caved In
PROJECT PIN NUMBER: 92D289

BORING CREW
CREW CHIEF: PORTER
DRILLER: PORTER
LOGGER: WERNER

BORING RIG: LAG TRACK RIG #9 w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: DLG

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
		A-4, Si, brn, Moist, Rec. = 1.3 ft	5	25.5	1.6	13.6	84.8		
		A-4, Si, brn, Moist, Rec. = 1.5 ft	2	27.1	0.5	15.4	84.1		
5		A-4, Si, brn, Moist, Rec. = 1.4 ft	7	28.2	2.9	10.8	86.3		
		A-4, Si, brn, Wet, Rec. = 1.5 ft	4	28.8	0.8	6.4	92.8		
		A-4, Si, brn, Wet, Rec. = 1.4 ft	1	29.4	2.3	5.2	92.5		
10		A-4, Si, brn, Wet, Rec. = 1.1 ft	4	27.6	2.9	7.5	89.6		
		A-4, Si, brn, Wet, Rec. = 1.4 ft	4	27.9	1.1	3.0	95.9		
15		A-4, Si, brn, Wet, Rec. = 1.3 ft	4	28.7	0.1	1.4	98.5		
		A-4, Si, brn, Wet, Rec. = 1.5 ft	5	28.2	0.1	6.6	93.3		
		A-4, Si, gry, Wet, Rec. = 1.8 ft	3	28.4	0.0	0.7	99.3		
20		A-4, ClSi, gry, Wet, Rec. = 0.7 ft	WH	28.7	0.0	1.1	98.9	27	7
		A-4, Si, gry, Wet, Rec. = 1.1 ft		27.7	0.0	2.7	97.3	23	4
25		A-4, ClSi, gry, Wet, Rec. = 2.0 ft	WH	31.7	0.0	1.3	98.7	29	8
30		A-6, Cl, gry, Moist, Rec. = 2.0 ft	WH	40.6	0.3	3.5	96.2	40	21
35		Hole stopped @ 32.0 ft							

LOG OF BORING MILTON STP 5800(2).GPJ VT AOT.GDT 9/5/07

VTrans Working to Get You There Vermont Agency of Transportation

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-102
SHEET 1 of 1
DATE STARTED: 7/31/07
DATE COMPLETED: 7/31/07

PROJECT NAME: MILTON
SITE NAME: US7 & TH3
STATION: 301+66.50
OFFSET: -33.90
VTSPG: N 784963.54 ft E 1480234.65 ft

PROJECT NUMBER: STP 5800(2)
SITE NUMBER: ROADWAY-INTERSECTION
GROUND ELEVATION: 335.77 ft
GROUNDWATER DEPTH: Hole Caved In
PROJECT PIN NUMBER: 92D289

BORING CREW
CREW CHIEF: PORTER
DRILLER: PORTER
LOGGER: WERNER

BORING RIG: LAG TRACK RIG #9 w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: DLG

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
		A-2-4, SiSa, brn, Moist, Rec. = 1.5 ft	3	10.4	0.9	68.4	30.7		
		A-2-4, Sa, brn, Moist, Rec. = 0.9 ft	4	6.2	0.7	85.5	13.8		
5		A-3, Sa, brn, Moist, Rec. = 1.3 ft	9	4.7	0.9	91.0	8.1		
		A-3, Sa, brn, Moist, Rec. = 1.1 ft	11	3.5	19.5	76.0	4.5		
		A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft	5	3.8	21.5	72.8	5.7		
10		A-4, SiSa, brn, Moist, Rec. = 1.0 ft	9	17.7	12.0	49.9	38.1		
		A-4, Si, brn, Wet, Rec. = 1.6 ft	6	26.3	0.6	8.6	90.8		
15		A-4, SaSi, brn, Wet, Rec. = 1.7 ft	5	28.5	1.3	34.2	64.5		
		A-4, Si, gry, Wet, Rec. = 1.6 ft	3	26.7	0.4	11.6	88.0		
		A-4, Si, gry, Wet, Rec. = 1.5 ft	1	28.2	0.0	3.4	96.6	24	3
20		A-4, Si, gry, Wet, Rec. = 1.0 ft	4	26.9	0.0	9.9	90.1		
25		A-4, Si, gry, Wet, Rec. = 2.0 ft	1	29.6	0.0	3.2	96.8	23	3
30		A-4, Si, gry, Wet, Rec. = 2.0 ft	1	30.4	0.0	0.6	99.4	28	5
35		Hole stopped @ 32.0 ft							

LOG OF BORING MILTON STP 5800(2).GPJ VT AOT.GDT 9/5/07

GENERAL NOTES

1. THE SUBSURFACE EXPLORATIONS SHOWN HEREIN WERE MADE BETWEEN JULY 23, 2007 AND JULY 31, 2007 BY THE AGENCY.
2. SOIL AND ROCK CLASSIFICATIONS, PROPERTIES AND DESCRIPTIONS ARE BASED ON ENGINEERING INTERPRETATION FROM AVAILABLE SUBSURFACE INFORMATION BY THE AGENCY AND MAY NOT NECESSARILY REFLECT ACTUAL VARIATIONS IN SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED BETWEEN INDIVIDUAL BORING OR SAMPLE LOCATIONS.
3. OBSERVED WATER LEVELS AND/OR CONDITIONS INDICATED ARE AS RECORDED AT THE TIME OF EXPLORATION AND MAY VARY ACCORDING TO THE PREVAILING RAINFALL, METHODS OF EXPLORATION AND OTHER FACTORS.
4. ENGINEERING JUDGEMENT WAS EXERCISED IN PREPARING THE SUBSURFACE INFORMATION PRESENTED HEREIN. ANALYSIS AND INTERPRETATION OF SUBSURFACE DATA WAS PERFORMED AND INTERPRETED FOR AGENCY DESIGN AND ESTIMATING PURPOSES. PRESENTATION OF THE INFORMATION IN THE CONTRACT IS INTENDED TO PROVIDE THE CONTRACTOR ACCESS TO THE SAME DATA AVAILABLE TO THE AGENCY. THE SUBSURFACE INFORMATION IS PRESENTED IN GOOD FAITH AND IS NOT INTENDED AS A SUBSTITUTE FOR PERSONAL INVESTIGATION, INDEPENDENT INTERPRETATION, INDEPENDENT ANALYSIS OR JUDGEMENT BY THE CONTRACTOR.

DEFINITIONS (AASHTO)

BEDROCK (LEDGE) - ROCK IN ITS NATIVE LOCATION OF INDEFINITE THICKNESS.
BOULDER - A ROCK FRAGMENT WITH AN AVERAGE DIMENSION >12 INCHES.
COBBLE - ROCK FRAGMENTS WITH AN AVERAGE DIMENSION BETWEEN 3 AND 12 INCHES.
GRAVEL - ROUNDED PARTICLES OF ROCK <3" AND > 0.0787" (#10 SIEVE).
SAND - PARTICLES OF ROCK < 0.0787" (#10 SIEVE) AND > 0.0029" (#200 SIEVE).
SILT - SOIL < 0.0029" (#200 SIEVE), NON OR SLIGHTLY PLASTIC AND EXHIBITS NO STRENGTH WHEN AIR-DRIED.
CLAY - FINE GRAINED SOIL, EXHIBITS PLASTICITY WHEN MOIST AND CONSIDERABLE STRENGTH WHEN AIR-DRIED.
VARVED - ALTERNATE LAYERS OF SILT AND CLAY.
HARDPAN - EXTREMELY DENSE SOIL, CEMENTED LAYER, NOT SOFTENED WHEN WET.
MUCK - SOFT ORGANIC SOIL (CONTAINING > 10% ORGANIC MATERIAL).
MOISTURE CONTENT - WEIGHT OF WATER DIVIDED BY DRY WEIGHT OF SOIL.
FLOWING SAND - GRANULAR SOIL SO SATURATED (LOOSE) THAT IT FLOWS INTO DRILL CASING DURING EXTRACTION OF WASH ROD.
STRIKE - ANGLE FROM MAGNETIC NORTH TO LINE OF INTERSECTION OF BED WITH A HORIZONTAL PLANE.
DIP - INCLINATION OF BED WITH A HORIZONTAL PLANE.

PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)

FILE NAME: t92D289bor.dgn	PLOT DATE: 10-MAR-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
BORING SHEET 1	SHEET 99 OF 104

SOIL CLASSIFICATION

AASHTO

A1	GRAVEL AND SAND
A2	SILTY OR CLAYEY GRAVEL AND SAND
A3	FINE SAND
A4	SILTY SOIL - LOW COMPRESSIBILITY
A5	SILTY SOIL - HIGHLY COMPRESSIBLE
A6	CLAYEY SOIL - LOW COMPRESSIBILITY
A7	CLAYEY SOIL - HIGHLY COMPRESSIBLE

ROCK QUALITY DESIGNATION

R.Q.D. (%)	ROCK DESCRIPTION
<25	VERY POOR
25 to 50	POOR
51 to 75	FAIR
76 to 90	GOOD
>90	EXCELLENT

SHEAR STRENGTH

UNDRAINED SHEAR STRENGTH IN P.S.F.	CONSISTENCY
<250	VERY SOFT
250-500	SOFT
500-1000	MED. STIFF
1000-2000	STIFF
2000-4000	VERY STIFF
>4000	HARD

CORRELATION GUIDE OF "N" TO DENSITY / CONSISTENCY

DENSITY (GRANULAR SOILS) N	DESCRIPTIVE TERM	CONSISTENCY (COHESIVE SOILS) N	DESCRIPTIVE TERM
<5	VERY LOOSE	<2	VERY SOFT
5-10	LOOSE	2-4	SOFT
11-24	MED. DENSE	5-8	MED. STIFF
25-50	DENSE	9-15	STIFF
>50	VERY DENSE	16-30	VERY STIFF
		31-60	HARD
		>60	VERY HARD

COMMONLY USED SYMBOLS

▼	WATER ELEVATION
⊗	STANDARD PENETRATION BORING
⊕	AUGER BORING
⊙	ROD SOUNDING
S	SAMPLE
N	STANDARD PENETRATION TEST BLOW COUNT PER FOOT FOR: 2" O.D. SAMPLER 1 3/8" I.D. SAMPLER HAMMER WEIGHT OF 140 LBS. HAMMER FALL OF 30"
VS	FIELD VANE SHEAR TEST
US	UNDISTURBED SOIL SAMPLE
B	BLAST
DC	DIAMOND CORE
MD	MUD DRILL
WA	WASH AHEAD
HSA	HOLLOW STEM AUGER
AX	CORE SIZE 1 1/8"
BX	CORE SIZE 1 5/8"
NX	CORE SIZE 2 1/8"
M	DOUBLE TUBE CORE BARREL USED
LL	LIQUID LIMIT
PL	PLASTIC LIMIT
PI	PLASTICITY INDEX
NP	NON PLASTIC
W	MOISTURE CONTENT (DRY WGT. BASIS)
D	DRY
M	MOIST
MTW	MOIST TO WET
W	WET
SAT	SATURATED
BO	BOULDER
GR	GRAVEL
SA	SAND
SI	SILT
CL	CLAY
HP	HARDPAN
LE	LEDGE
NLTD	NO LEDGE TO DEPTH
CNPF	CAN NOT PENETRATE FURTHER
TLOB	TO LEDGE OR BOULDER
NR	NO RECOVERY
REC.	RECOVERY
%REC.	PERCENT RECOVERY
RQD	ROCK QUALITY DESIGNATION
CBR	CALIFORNIA BEARING RATIO
<	LESS THAN
>	GREATER THAN
R	REFUSAL (N>100)

COLOR

blk	BLACK	pnk	PINK
bl	BLUE	pu	PURPLE
brn	BROWN	rd	RED
dk	DARK	tn	TAN
gry	GRAY	wh	WHITE
gn	GREEN	yel	YELLOW
lt	LIGHT	mltc	MULTICOLORED
or	ORANGE		

VTrans Working to Get You There

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-103
SHEET 1 of 1
DATE STARTED: 7/30/07
DATE COMPLETED: 7/30/07

PROJECT NAME: MILTON
SITE NAME: US7 & TH3
STATION: 302+86.80
OFFSET: -22.90
VTSPG: N 785072.79 ft E 1480183.32 ft

PROJECT NUMBER: STP 5800(2)
SITE NUMBER: ROADWAY-INTERSECTION
GROUND ELEVATION: 335.99 ft
GROUNDWATER DEPTH: Hole Caved In at 6.0'
PROJECT PIN NUMBER: 92D289

BORING CREW
CREW CHIEF: PORTER
DRILLER: PORTER
LOGGER: WERNER

BORING RIG: LAG TRACK RIG #9 w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: DLG

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
		A-2-4, Sa, brn, Moist, Rec. = 1.5 ft	5	7.3	11.3	72.5	16.2		
		A-2-4, Sa, brn, Moist, Rec. = 1.6 ft	2	8.1	2.2	82.6	15.2		
5		A-2-4, Sa, brn, Moist, Rec. = 0.6 ft	2	9.2	5.9	76.7	17.4		
		A-3, Sa, brn, Moist, Rec. = 1.3 ft	10	5.2	4.2	90.9	4.9		
		A-1-b, Sa, brn, Wet, Rec. = 1.6 ft	9	9.5	7.9	87.1	5.0		
10		A-1-b, Sa, brn, Wet, Rec. = 1.3 ft	5	15.9	17.9	72.5	9.6		
		A-4, SaSi, brn, Wet, Rec. = 1.0 ft	3	23.3	6.6	35.6	57.8		
15		A-4, Si, brn, Wet, Rec. = 1.2 ft	2	31.1	0.0	12.2	87.8		
		A-4, Si, brn, Wet, Rec. = 1.2 ft	3	28.1	0.0	3.8	96.2	25	3
		A-4, ClSi, gry, Wet, Rec. = 2.0 ft	WH	30.5	0.0	1.4	98.6	28	7
20		A-4, Si, gry, Wet, Rec. = 2.0 ft	WH	30.6	0.0	0.8	99.2	26	4
25		A-4, ClSi, gry, Wet, Rec. = 2.0 ft	WH	31.4	0.0	0.6	99.4	29	8
30		A-6, SiCl, gry, Wet, Rec. = 2.0 ft	WH	35.7	0.0	3.8	96.2	35	17
		Hole stopped @ 32.0 ft							
35									

LOG OF BORING MILTON STP 5800(2).GPJ VT AOT.GDT 9/5/07

VTrans Working to Get You There

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-104
SHEET 1 of 1
DATE STARTED: 7/23/07
DATE COMPLETED: 7/24/07

PROJECT NAME: MILTON
SITE NAME: US7 & TH3
STATION: 300+75.00
OFFSET: 29.00
VTSPG: N 784927.73 ft E 1480335.22 ft

PROJECT NUMBER: STP 5800(2)
SITE NUMBER: ROADWAY-INTERSECTION
GROUND ELEVATION: 324.0 ft
GROUNDWATER DEPTH: 24.2 ft 7/24/07
PROJECT PIN NUMBER: 92D289

BORING CREW
CREW CHIEF: PORTER
DRILLER: PORTER
LOGGER: WERNER

BORING RIG: LAG TRACK RIG #9 w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: DLG

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
		A-2-4, Sa, brn, Moist, Rec. = 0.7 ft	2	11.4	8.0	72.7	19.3		
		A-3, Sa, brn, Moist, Rec. = 1.3 ft	7	4.3	2.7	92.2	5.1		
5		A-2-4, Sa, brn, Moist, Rec. = 1.4 ft	8	8.4	1.2	80.6	18.2		
		A-4, Si, brn, Moist, Rec. = 1.9 ft	4	29.9	0.0	3.6	96.4		
		A-4, Si, brn, Wet, Rec. = 1.0 ft	4	30.9	0.0	2.7	97.3		
10		A-4, Si, brn, Wet, Rec. = 1.3 ft	4	31.0	0.0	7.0	93.0		
15		A-4, Si, gry, Wet, Rec. = 1.5 ft	5	27.9	0.0	5.5	94.5		
20		A-4, Si, gry, Wet, Rec. = 1.9 ft	WH	30.1	0.0	0.8	99.2	24	2
25		A-4, ClSi, gry, Wet, Rec. = 2.0 ft	WH	33.5	0.0	0.6	99.4	30	9
30		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft	3	51.7	0.3	2.2	97.5	57	35
35		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft	1	46.0	0.0	0.8	99.2	50	29
		Hole stopped @ 37.0 ft							

LOG OF BORING MILTON STP 5800(2).GPJ VT AOT.GDT 9/5/07

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PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)

FILE NAME: t92D289bor.dgn	PLOT DATE: 10-MAR-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
BORING SHEET 2	SHEET 100 OF 104

SOIL CLASSIFICATION

AASHTO

A1	GRAVEL AND SAND
A2	SILTY OR CLAYEY GRAVEL AND SAND
A3	FINE SAND
A4	SILTY SOIL - LOW COMPRESSIBILITY
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DENSITY (GRANULAR SOILS)		CONSISTENCY (COHESIVE SOILS)	
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5-10	LOOSE	2-4	SOFT
11-24	MED. DENSE	5-8	MED. STIFF
25-50	DENSE	9-15	STIFF
>50	VERY DENSE	16-30	VERY STIFF
		31-60	HARD
		>60	VERY HARD

COMMONLY USED SYMBOLS

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US	UNDISTURBED SOIL SAMPLE
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MD	MUD DRILL
WA	WASH AHEAD
HSA	HOLLOW STEM AUGER
AX	CORE SIZE 1 1/8"
BX	CORE SIZE 1 5/8"
NX	CORE SIZE 2 1/8"
M	DOUBLE TUBE CORE BARREL USED
LL	LIQUID LIMIT
PL	PLASTIC LIMIT
PI	PLASTICITY INDEX
NP	NON PLASTIC
W	MOISTURE CONTENT (DRY WGT. BASIS)
D	DRY
M	MOIST
MTW	MOIST TO WET
W	WET
SAT	SATURATED
BO	BOULDER
GR	GRAVEL
SA	SAND
SI	SILT
CL	CLAY
HP	HARDPAN
LE	LEDGE
NLTD	NO LEDGE TO DEPTH
CNPF	CAN NOT PENETRATE FURTHER
TLOB	TO LEDGE OR BOULDER
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REC.	RECOVERY
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RQD	ROCK QUALITY DESIGNATION
CBR	CALIFORNIA BEARING RATIO
<	LESS THAN
>	GREATER THAN
R	REFUSAL (N>100)

COLOR

blk	BLACK	pnk	PINK
bl	BLUE	pu	PURPLE
brn	BROWN	rd	RED
dk	DARK	tn	TAN
gry	GRAY	wh	WHITE
gn	GREEN	yel	YELLOW
lt	LIGHT	mltc	MULTICOLORED
or	ORANGE		

VTrans Working to Get You There

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-105
SHEET 1 of 1
DATE STARTED: 7/26/07
DATE COMPLETED: 7/26/07

PROJECT NAME: MILTON
SITE NAME: US7 & TH3
STATION: 302+00.50
OFFSET: 16.20
VTSPG: N 785018.08 ft E 1480260.67 ft

PROJECT NUMBER: STP 5800(2)
SITE NUMBER: ROADWAY-INTERSECTION
GROUND ELEVATION: 331.95 ft
GROUNDWATER DEPTH: Hole Caved In
PROJECT PIN NUMBER: 92D289

BORING CREW
CREW CHIEF: PORTER
DRILLER: PORTER
LOGGER: WERNER

BORING RIG: LAG TRACK RIG #9 w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: DLG

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
		A-1-b, GrSa, brn, Moist, Rec. = 1.1 ft	5	3.0	31.9	61.4	6.7		
		A-4, SaSi, brn, Moist, Rec. = 1.1 ft	6	22.5	0.0	34.6	65.4		
5		A-4, Si, brn, Moist, Rec. = 1.2 ft	4	25.6	0.4	8.4	91.2		
		A-4, SaSi, brn, Wet, Rec. = 1.2 ft	7	24.2	0.7	33.9	65.4		
		A-4, Si, brn, Wet, Rec. = 1.4 ft	6	28.2	0.0	5.8	94.2		
10		A-4, Si, gry, Wet, Rec. = 1.4 ft	2	26.1	0.0	3.5	96.5	23	2
15		A-4, Si, gry, Wet, Rec. = 1.5 ft	WH	29.1	0.0	2.0	98.0	24	3
20		A-4, ClSi, gry, Wet, Rec. = 2.0 ft	2	29.5	0.0	0.9	99.1	27	7
25		A-6, SiCl, gry, Wet, Rec. = 2.0 ft	2	35.6	0.0	1.5	98.5	36	17
		Hole stopped @ 27.0 ft							
30									
35									

LOG OF BORING MILTON STP 5800(2).GPJ VT AOT.GDT 9/5/07

VTrans Working to Get You There

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-106
SHEET 1 of 1
DATE STARTED: 7/27/07
DATE COMPLETED: 7/27/07

PROJECT NAME: MILTON
SITE NAME: US7 & TH3
STATION: 302+79.02
OFFSET: 18.00
VTSPG: N 785086.70 ft E 1480222.42 ft

PROJECT NUMBER: STP 5800(2)
SITE NUMBER: ROADWAY-INTERSECTION
GROUND ELEVATION: 335.39 ft
GROUNDWATER DEPTH: 23.0 ft 7/27/07
PROJECT PIN NUMBER: 92D289

BORING CREW
CREW CHIEF: PORTER
DRILLER: PORTER
LOGGER: WERNER

BORING RIG: LAG TRACK RIG #9 w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: DLG

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
		A-2-4, Sa, brn, Moist, Rec. = 1.1 ft	3	5.8	5.6	82.0	12.4		
		A-3, Sa, brn, Moist, Rec. = 1.4 ft	5	5.3	12.6	82.8	4.6		
5		A-1-b, GrSa, brn, Moist, Rec. = 1.6 ft	14	3.9	36.0	56.6	7.4		
		A-1-b, GrSa, brn, Moist, Rec. = 1.6 ft	15	5.2	20.7	72.2	7.1		
		A-1-b, Sa, brn, Wet, Rec. = 1.4 ft	9	15.4	9.2	86.1	4.7		
10		A-4, SaSi, brn, Wet, Rec. = 1.0 ft	6	24.2	4.9	34.3	60.8		
15		A-4, Si, gry, Wet, Rec. = 1.3 ft	4	28.3	0.1	10.7	89.2		
20		A-4, Si, gry, Wet, Rec. = 1.8 ft	WH	28.5	0.0	3.1	96.9	24	4
25		A-4, ClSi, gry, Wet, Rec. = 1.7 ft	WH	31.3	0.0	0.8	99.2	29	10
		Hole stopped @ 27.0 ft							
30									
35									

LOG OF BORING MILTON STP 5800(2).GPJ VT AOT.GDT 9/5/07

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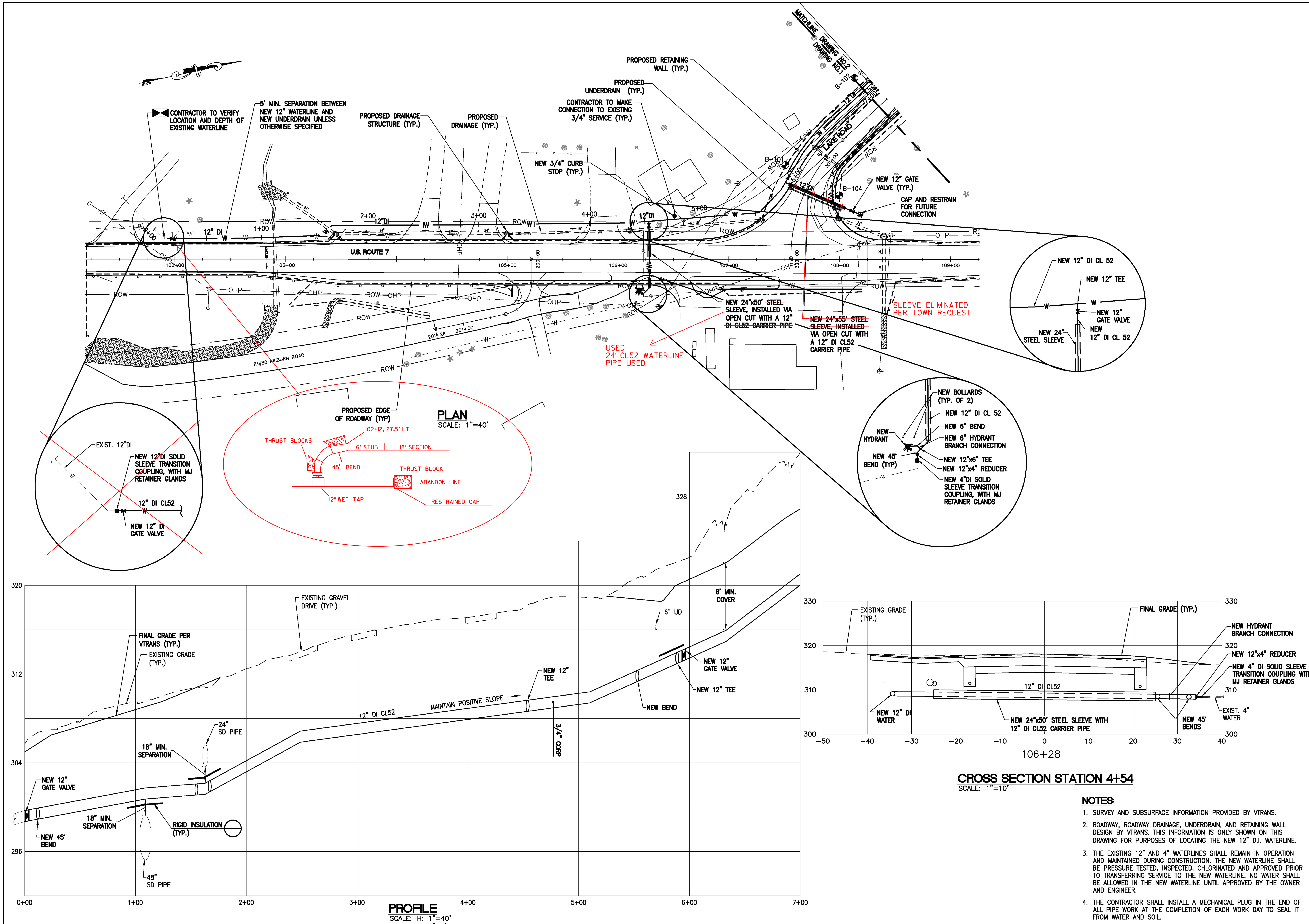
FLOWING SAND - GRANULAR SOIL SO SATURATED (LOOSE) THAT IT FLOWS INTO DRILL CASING DURING EXTRACTION OF WASH ROD.
STRIKE - ANGLE FROM MAGNETIC NORTH TO LINE OF INTERSECTION OF BED WITH A HORIZONTAL PLANE.
DIP - INCLINATION OF BED WITH A HORIZONTAL PLANE.

PROJECT NAME: MILTON
PROJECT NUMBER: STP 5800 (2)

FILE NAME: t92D289bor.dgn	PLOT DATE: 10-MAR-2011
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: D. LYMAN	CHECKED BY: J. DEVLIN
BORING SHEET 3	SHEET 101 OF 104



NOTES:

1. SURVEY AND SUBSURFACE INFORMATION PROVIDED BY VTRANS.
2. ROADWAY, ROADWAY DRAINAGE, UNDERDRAIN, AND RETAINING WALL DESIGN BY VTRANS. THIS INFORMATION IS ONLY SHOWN ON THIS DRAWING FOR PURPOSES OF LOCATING THE NEW 12" D.I. WATERLINE.
3. THE EXISTING 12" AND 4" WATERLINES SHALL REMAIN IN OPERATION AND MAINTAINED DURING CONSTRUCTION. THE NEW WATERLINE SHALL BE PRESSURE TESTED, INSPECTED, CHLORINATED AND APPROVED PRIOR TO TRANSFERRING SERVICE TO THE NEW WATERLINE. NO WATER SHALL BE ALLOWED IN THE NEW WATERLINE UNTIL APPROVED BY THE OWNER AND ENGINEER.
4. THE CONTRACTOR SHALL INSTALL A MECHANICAL PLUG IN THE END OF ALL PIPE WORK AT THE COMPLETION OF EACH WORK DAY TO SEAL IT FROM WATER AND SOIL.

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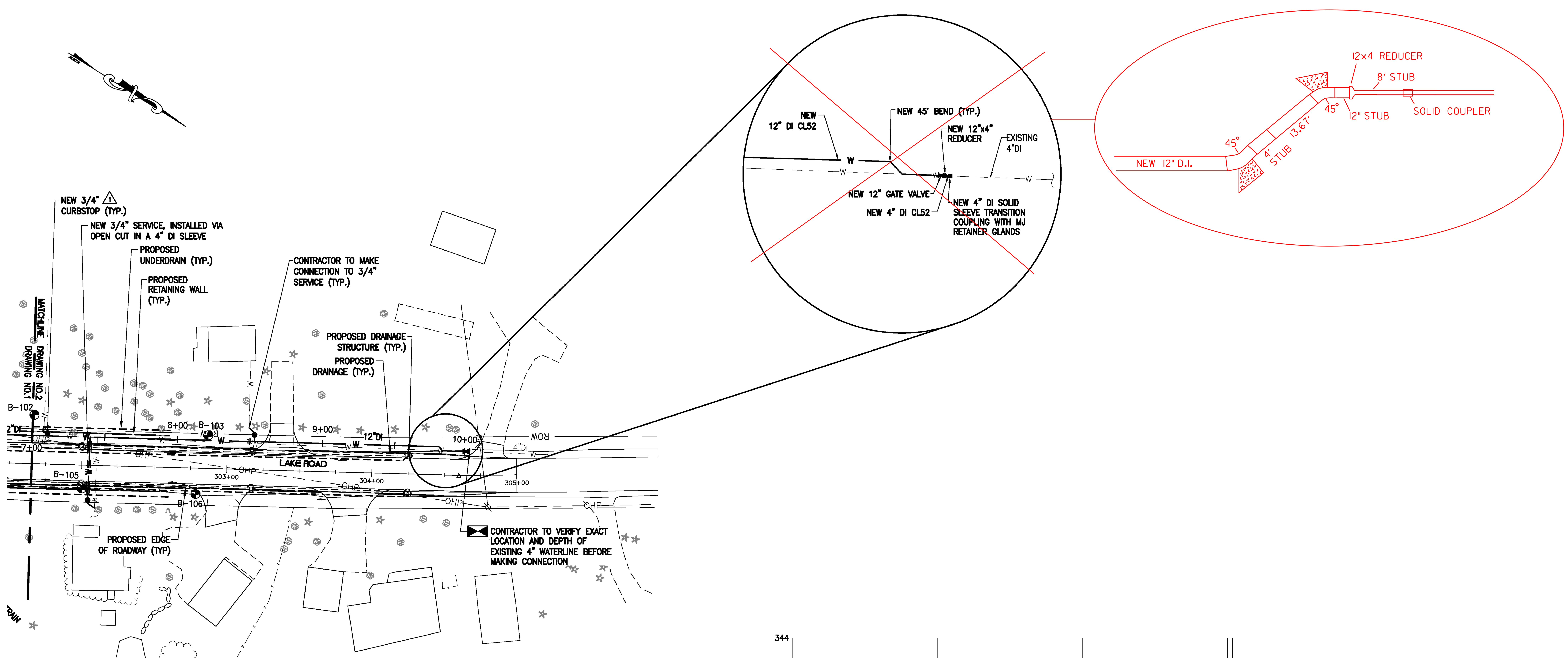
TOWN OF MILTON
COUNTY OF CHITTENDEN

MILTON
STP 5800 (2)

U.S. ROUTE 7
PLAN AND PROFILE
STA. 0+00 TO 7+00

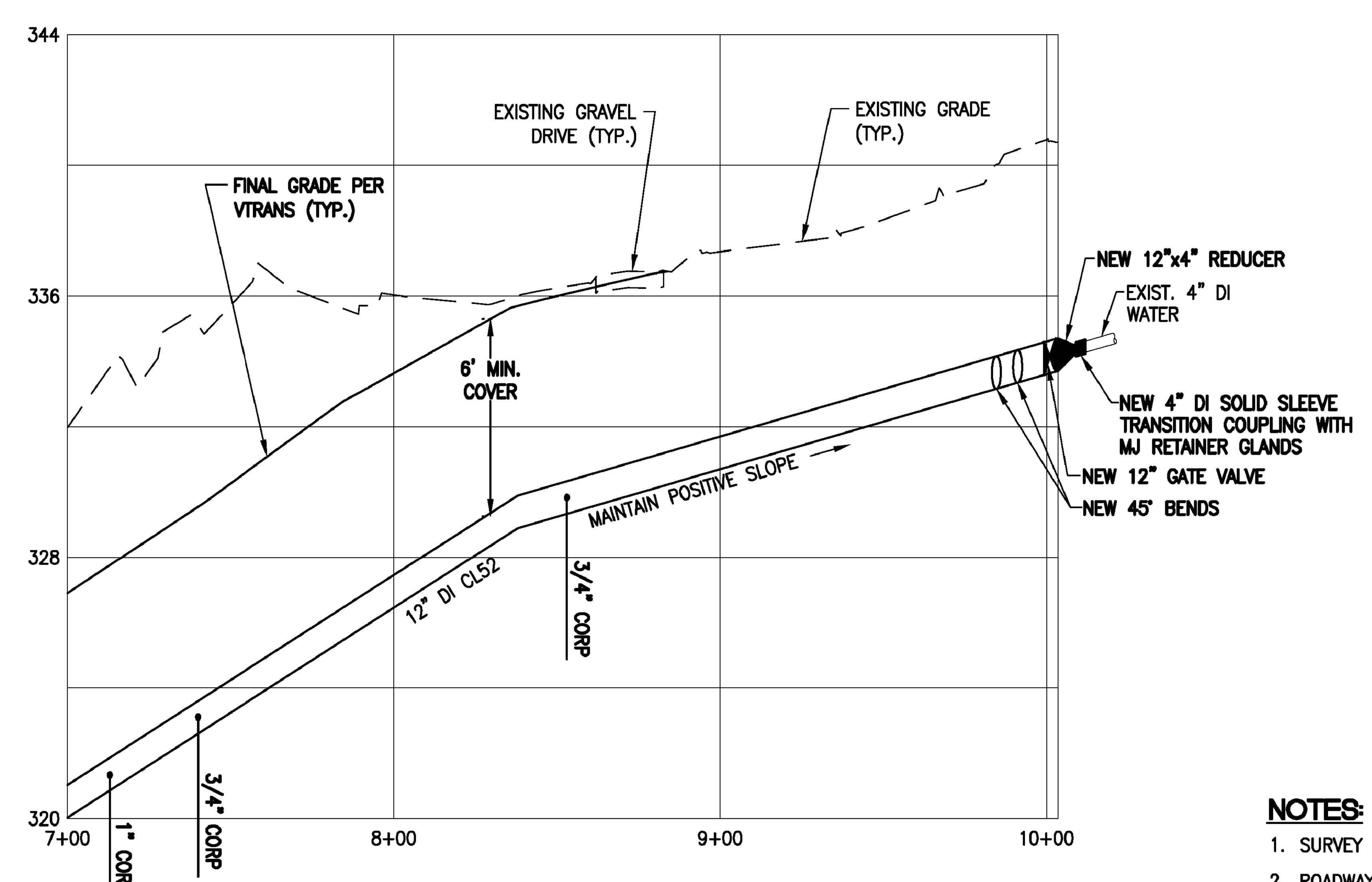
NO.	DATE	REVISION DESCRIPTION	CHECKED

DESIGNED JAB	PROJECT NO. 09033
DRAWN JEB	DRAWING NO.
CHECKED WAE	102
DATE MAY, 2009	OF 104



PLAN

SCALE: 1"=40'



PROFILE

SCALE: H: 1"=40'
V: 1"=4'

NOTES:

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STATE OF VERMONT
JASON R. BOOTH
No. 6365 Civil
LICENSED PROFESSIONAL ENGINEER

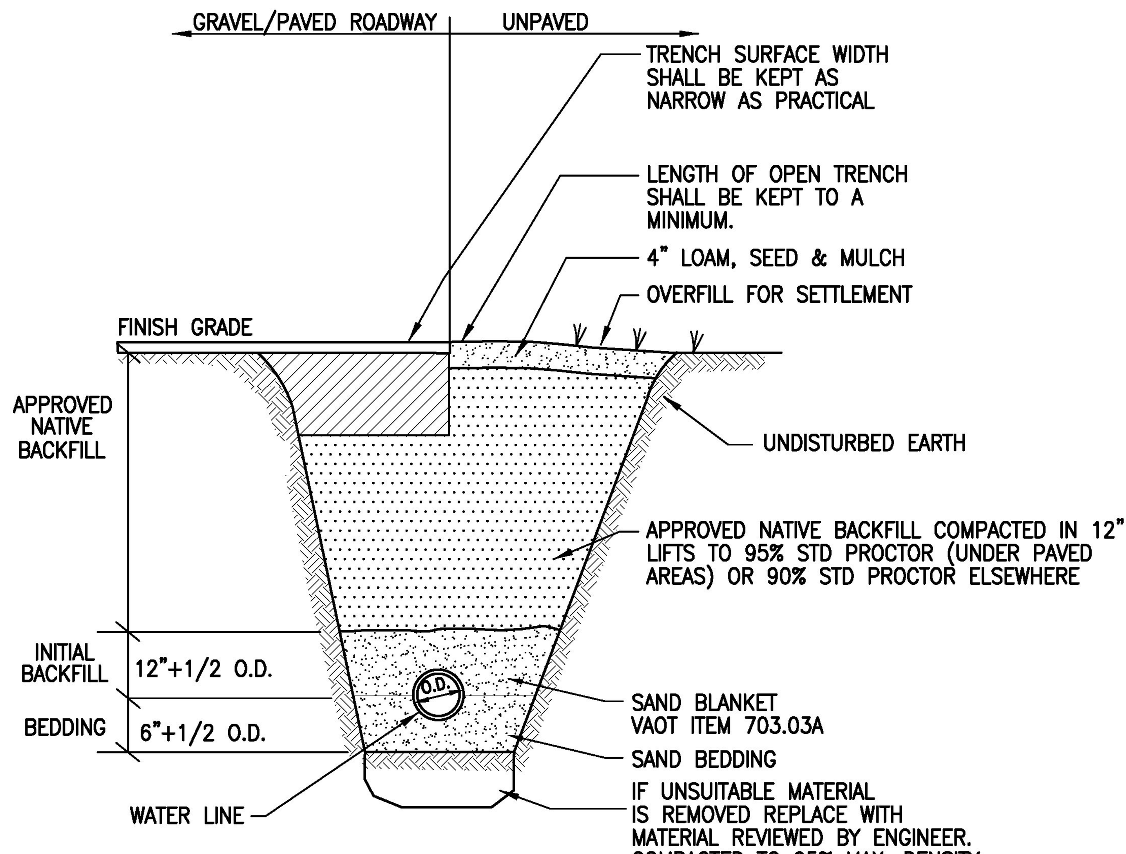
TOWN OF MILTON
COUNTY OF CHITTENDEN

MILTON
STP 5800 (2)

NO.	DATE	REVISION DESCRIPTION	CHECKED
1	1/5/10	RELOCATION OF CURBSTOP STA. 7+10	JAB

LAKE ROAD PLAN AND PROFILE STATION 7+00 TO 10+03

DESIGNED JAB	PROJECT NO. 09033
DRAWN JEB	DRAWING NO.
CHECKED WAE	103 OF 104
DATE MAY, 2009	



TRENCH NOTES:

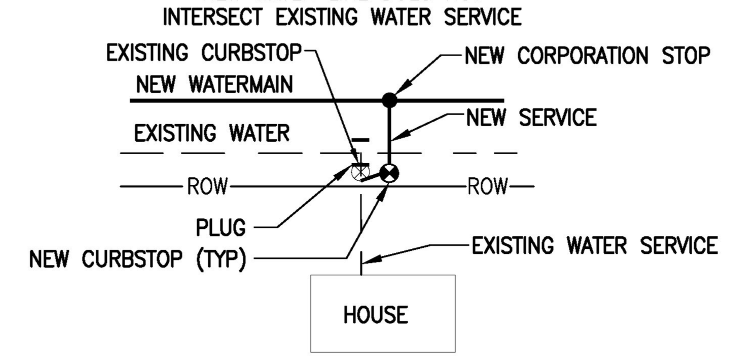
1. NO MECHANICAL TAMPERS SHALL BE USED DIRECTLY OVER PVC PIPE TO ENSURE PIPE IS NOT DAMAGED.
2. BEDDING TO PROVIDE A FIRM, STABLE, CONTINUOUS AND UNIFORM SUPPORT FOR THE FULL LENGTH OF PIPE.

A — TYPICAL WATERLINE TRENCH DETAIL

SCALE: NONE

TYPE "A"

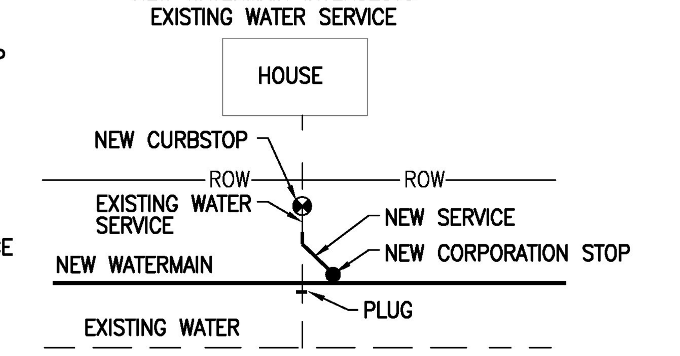
NEW WATER LINE DOES NOT INTERSECT EXISTING WATER SERVICE



1. CONTRACTOR SHALL SUBMIT SERVICE LOCATIONS TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL CAP END OF SERVICE, AND PROVIDE TIES TO END.
3. AFTER WATERMAIN IS ACCEPTED AND IS IN SERVICE, THE CONTRACTOR SHALL CONNECT EXISTING SERVICE TO NEW SERVICE AND PLUG UPPER END OF ABANDONED EXISTING SERVICE.

TYPE "B"

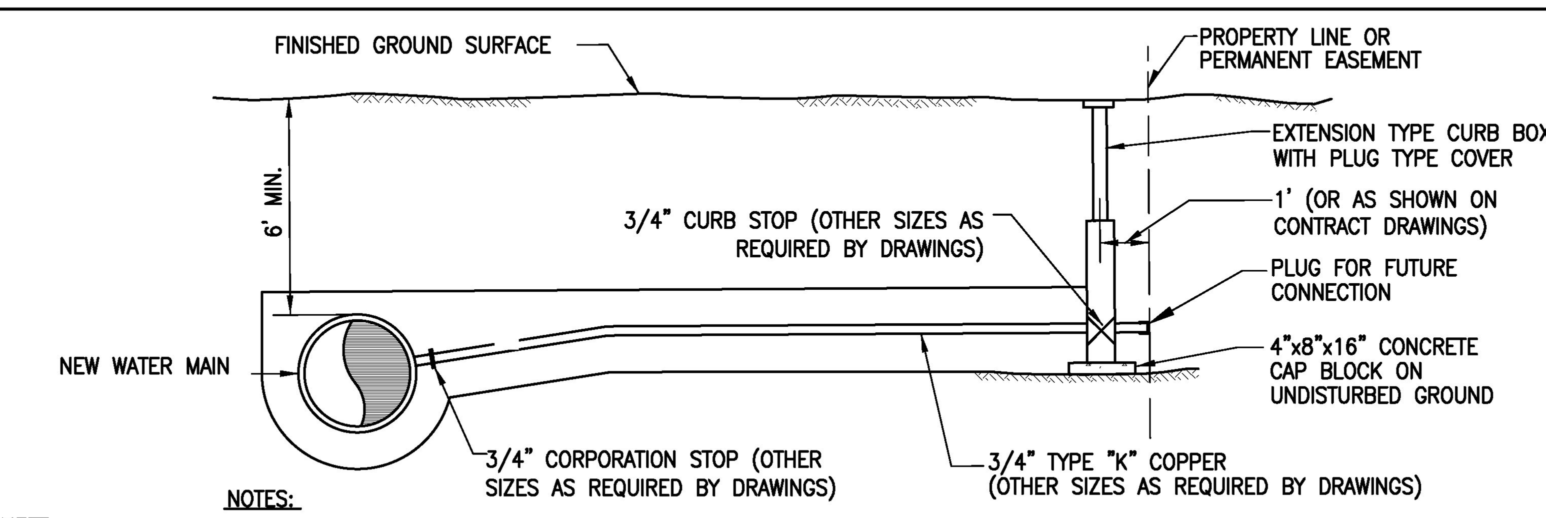
NEW WATERMAIN INTERSECTS EXISTING WATER SERVICE



1. CONTRACTOR SHALL CONSTRUCT NEW WATER SERVICE TO MEET EXISTING WATER SERVICE WITHIN THE R.O.W. OR EASEMENT LIMIT.
2. CONTRACTOR SHALL CAP END OF NEW SERVICE.
3. AFTER WATERMAIN IS ACCEPTED AND IS IN SERVICE, THE CONTRACTOR SHALL CONNECT EXISTING SERVICE TO NEW SERVICE AND PLUG UPPER END OF ABANDONED EXISTING SERVICE.

B — TYPICAL WATER SERVICE CONNECTIONS

SCALE: NONE

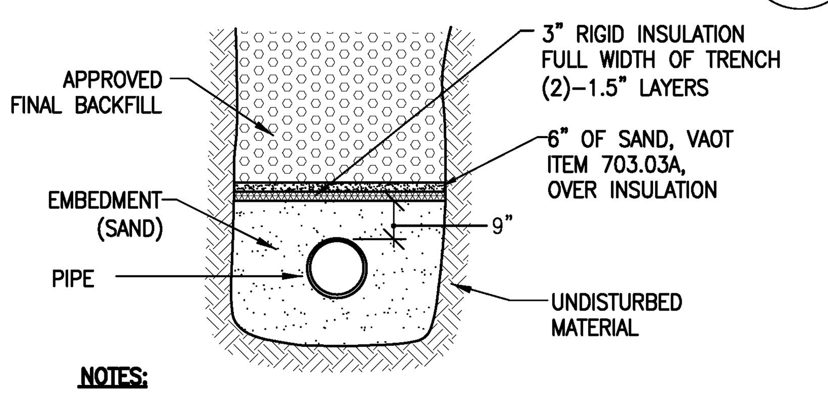


NOTES:

1. TEFLON THREAD SEALANT TAPE SHALL BE USED ON ALL CORPORATION STOPS PRIOR TO INSERTION.
   a. SPIRAL WRAP COMPLETELY COVERING THE THREAD AREA WITH TWO WRAPS.
   b. PIPE DOPE OR OTHER LIQUID THREAD SEALANTS ARE NOT ACCEPTABLE.
2. LEAVE ONE TO THREE THREADS SHOWING OUTSIDE OF PIPE. (A TORQUE OF 35 LBS. OR LESS IS RECOMMENDED).
3. CORPORATION STOPS SHALL NOT BE PLACED LESS THAN 12" APART ALONG PIPE.
4. FOR PVC PIPE USE DOUBLE WIDE SERVICE SADDLES BY FORD CAT. NO FC 2025.

C — WATER SERVICE CONNECTION DETAIL

SCALE: NONE

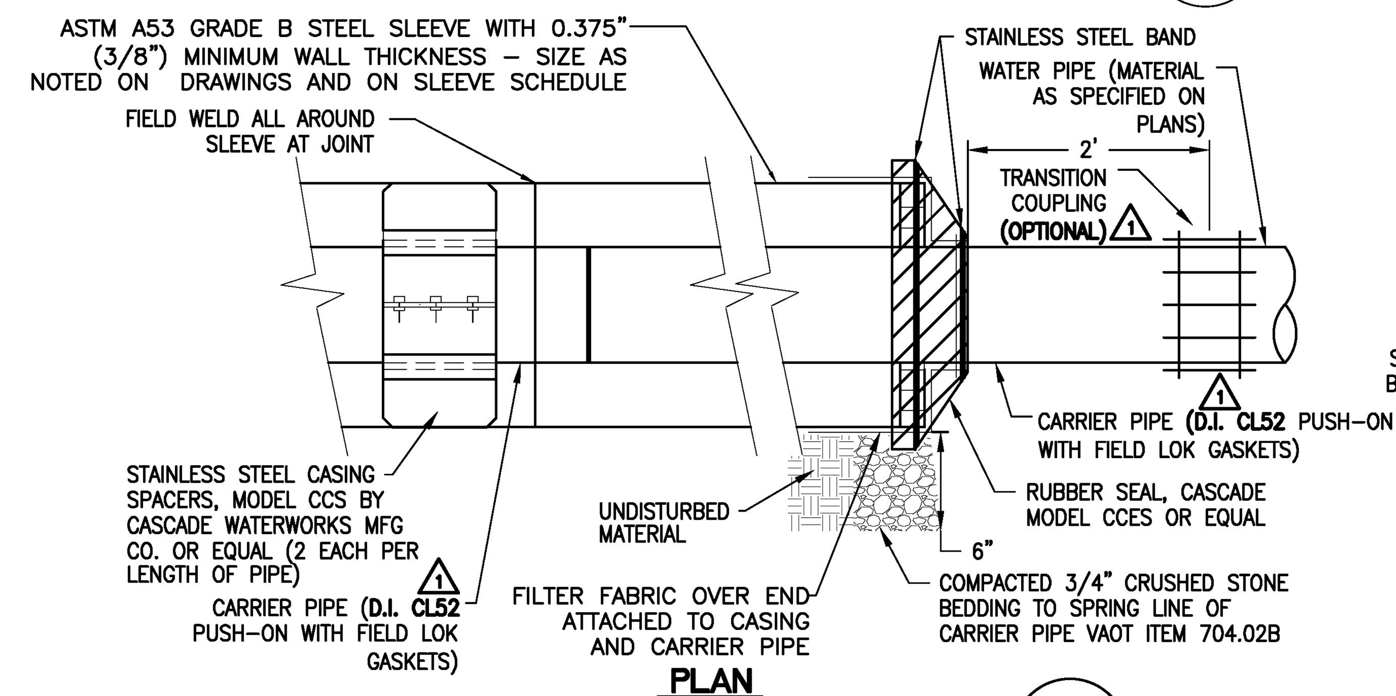


NOTES:

1. STAGGER INSULATION JOINTS SO THAT NO JOINTS OF THE TWO (2) LAYERS ARE ONE OVER THE OTHER.
2. TO BE INSULATED AS DIRECTED BY THE ENGINEER.

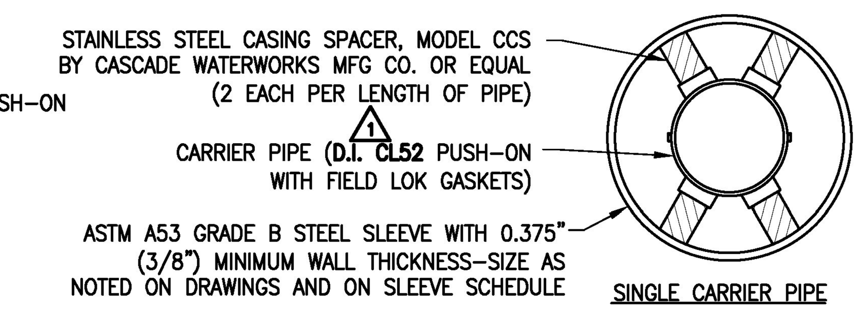
D — INSULATION DETAIL

SCALE: NONE



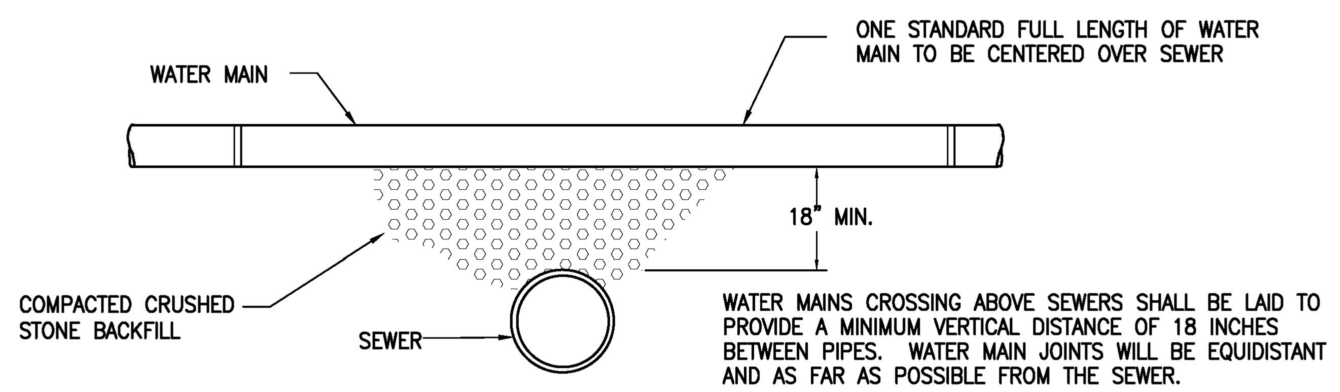
SLEEVE SCHEDULE

DRAWING No.	SLEEVE MATERIAL	SLEEVE DIAMETER	SLEEVE LENGTH	STATIONING
2	STEEL	24"	50'	4+54
2	STEEL	24"	55'	5+89



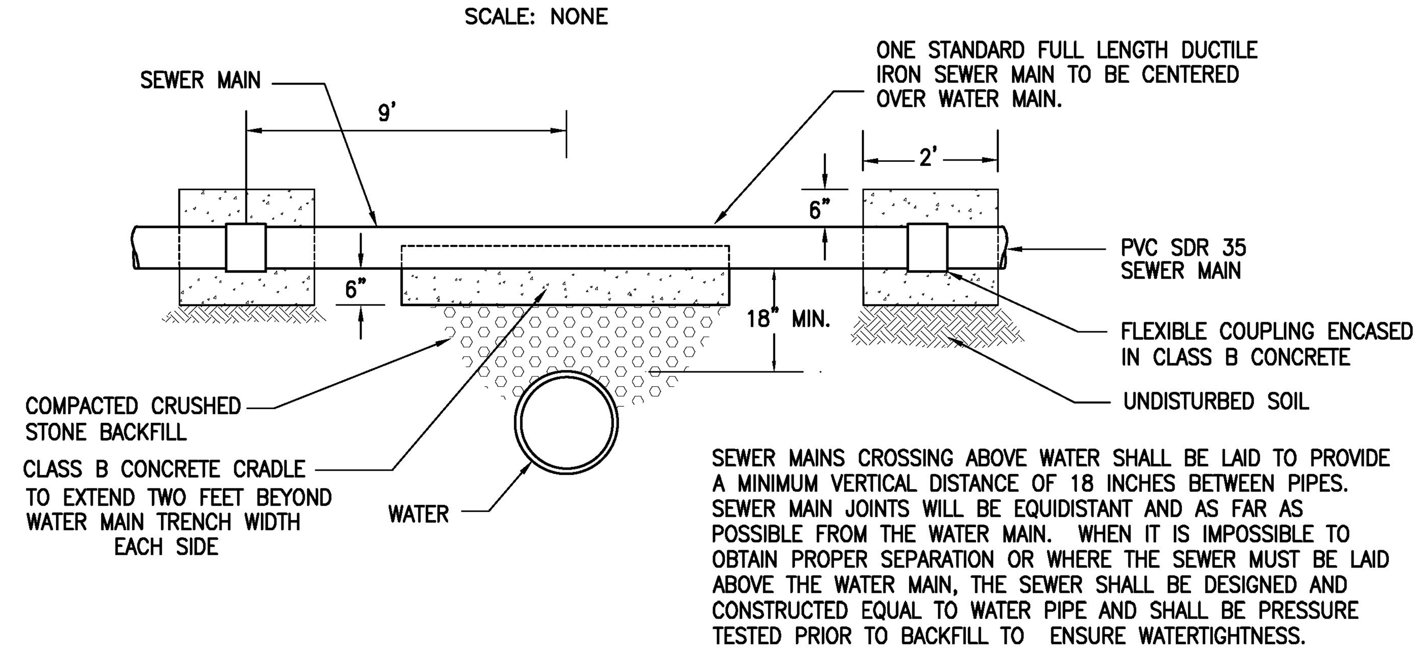
E — TYPICAL SLEEVE DETAIL

SCALE: NONE



WATER MAIN ABOVE SEWER—PREFERRED METHOD

SCALE: NONE



WATER MAIN BELOW SEWER—NOT THE RECOMMENDED METHOD

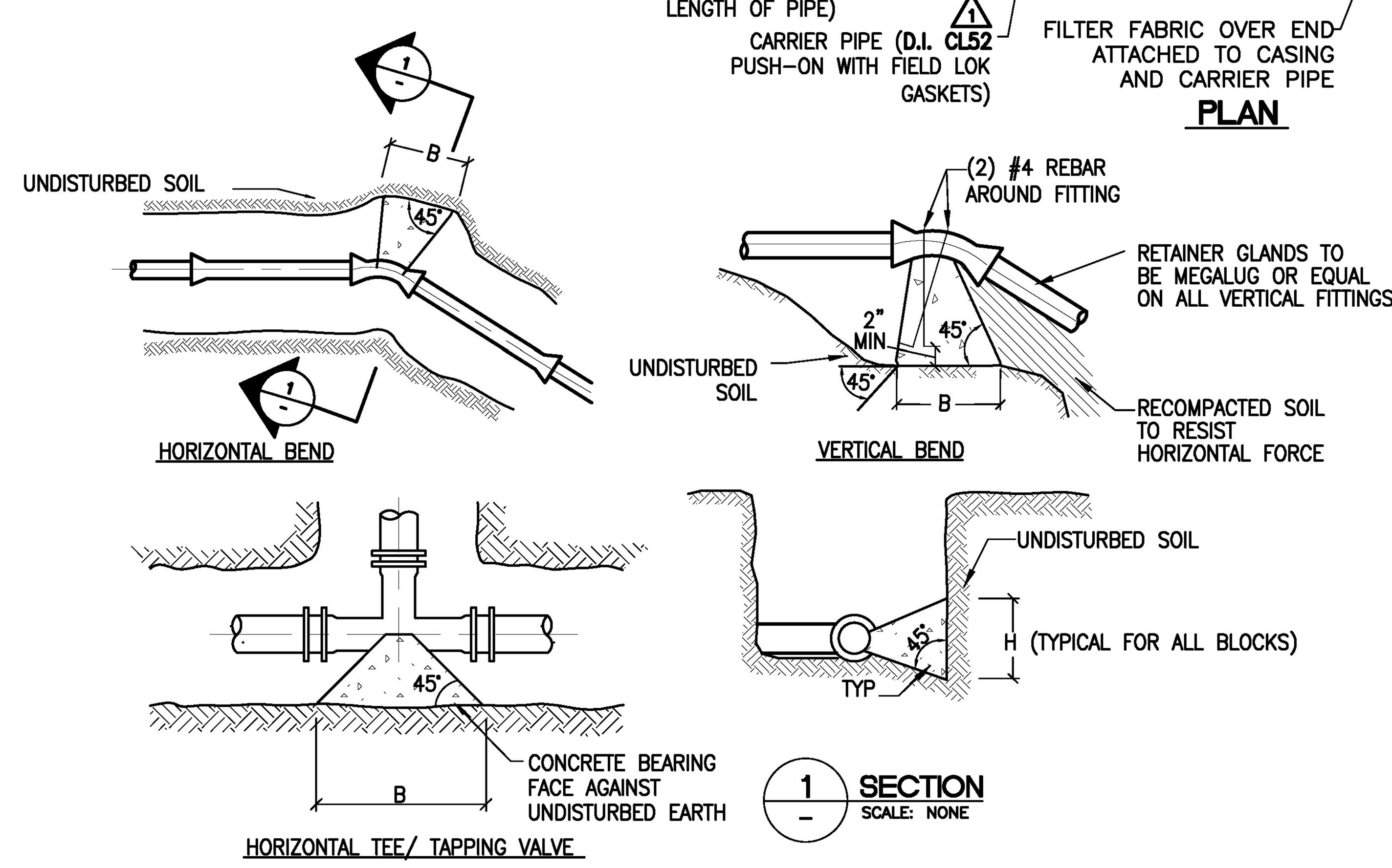
SCALE: NONE

SEPARATION DETAIL NOTES:

1. PARALLEL INSTALLATION: WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED MANHOLE, SANITARY SEWER OR FORCEMAIN. THIS DISTANCE CAN BE REDUCED TO 5 FEET FOR STORM SEWERS. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IF THIS DISTANCE CANNOT BE OBTAINED, THE WATER MAIN SHALL BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER. WHERE SEWERS ARE BEING INSTALLED, AND THE ABOVE SEPARATION CAN NOT BE MET, THE SEWER MATERIALS SHALL BE WATER MAIN PIPE OR EQUAL AND SHALL BE PRESSURE TESTED TO ENSURE WATERTIGHTNESS.
2. CROSSINGS: SEE THE DETAILS ABOVE.

F — WATER/SEWER SEPARATION DETAIL

SCALE: NONE



NOTES:

1. ALL THRUST BLOCKS SHALL BE CLASS "B" CONCRETE. SEE SPEC SECTION 03305
2. CONCRETE SHALL BE PLACED SO AS NOT TO HAMPER THE FUTURE REMOVAL OF A FITTING.
3. ALL FITTINGS ARE TO BE WRAPPED WITH POLYETHYLENE.

MINIMUM BEARING FACE "HEIGHTS AND WIDTHS" FOR CONCRETE THRUST BLOCKS (TEST PRESSURE = 150 PSI)

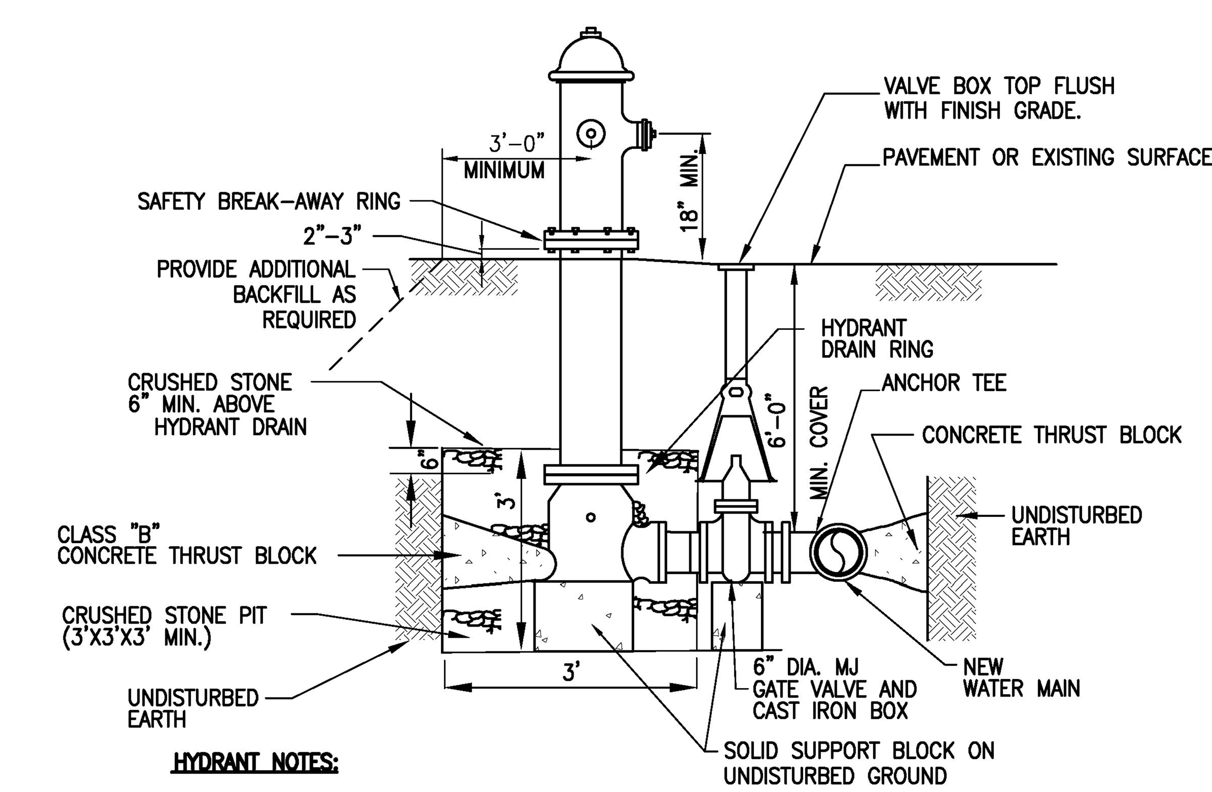
PIPELINE SIZE	HEIGHT (H) AND WIDTH (B) OF BEARING FACE FOR FITTING TO BE RESTRAINED											
	11 1/4° BEND		22 1/2° BEND		45° BEND		90° BEND		TEES & PLUGS		WYES	
	H	B	H	B	H	B	H	B	H	B	H	B
8"	1.0	1.0	1.0	1.75	1.5	2.25	1.75	3.5	1.5	3.0	1.5	2.25
10"	1.25	1.25	1.25	2.0	1.75	2.75	2.0	3.75	1.75	3.0	1.75	2.75
12"	1.25	1.5	1.25	2.25	1.75	3.0	2.25	4.0	2.0	3.0	1.75	3.0

NOTES:

1. HYDROSTATIC AND LEAKAGE TEST PRESSURE PER SPECIFICATIONS.
2. UNDISTURBED EARTH. SIDE OF TRENCH OR OTHER EXCAVATION.
3. SEE DIAGRAM FOR H AND B LOCATION REFERENCE. H AND B IN FEET.
4. PLACE 4 MIL POLYETHYLENE BETWEEN FITTINGS AND THRUST BLOCKS.
5. MINIMUM BEARING FACE IS BASED ON A SOIL TYPE WITH AASHTO CLASSIFICATION OF GROUP A-1 AND A-2 FOR GRANULAR MATERIALS. OTHER SOIL TYPES MAY REQUIRE AN INCREASE IN THE BEARING FACES, AS IDENTIFIED DURING CONSTRUCTION.
6. NO JOINTS SHALL BE COVERED WITH CONCRETE.
7. THRUST RESTRAINT IS REQUIRED FOR ALL TEES, BENDS, REDUCERS, CAPS, PLUGS, AND CROSSES.

G — THRUST BLOCK DETAILS

SCALE: NONE



HYDRANT NOTES:

1. ALL BRANCH PIPING AND FITTINGS SHALL BE MECHANICAL JOINT WITH RETAINER GLANDS.
2. HYDRANTS WHICH ARE INSTALLED WHERE THE GROUND WATER TABLE IS ABOVE THE HYDRANT WASTE ORIFICES SHALL HAVE THE ORIFICES PLUGGED. HYDRANTS WITH PLUGGED ORIFICES SHALL BE LABELED "ND" FOR NON-DRAINING IN 3" HIGH ORANGE PAINTED LETTERS ON THE BONNET FACING THE ROAD. HYDRANT DRAIN SHALL BE LEFT UNPLUGGED OR PLUGGED AS DETERMINED BY THE ENGINEER.
3. PROVIDE ADDITIONAL BACKFILL AROUND NEW HYDRANT AS REQUIRED TO PROVIDE ACCESS AND MAINTAIN MINIMUM DEPTH OF COVER.
4. CONTRACTOR SHALL USE HYDRANT RISERS OR MECHANICAL JOINT OFFSETS AS NECESSARY TO ACHIEVE SPECIFIED BURY DEPTH OF HYDRANT. COST OF ANY OFFSET SHALL BE INCLUDED IN THE UNIT PRICE FOR HYDRANT INSTALLATION.

H — HYDRANT DETAIL

SCALE: NONE

FA&A
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STATE OF VERMONT — JASON R. BOOTH — No. — LICENSED PROFESSIONAL ENGINEER

TOWN OF MILTON
COUNTY OF CHITTENDEN

MILTON
STP 5800 (2)

NO.	DATE	REVISION DESCRIPTION	CHECKED
1	3/30/11	REVISED PIPE MATERIAL-DETAIL E	WAE

WATER DETAILS

DESIGNED: JAB
DRAWN: JEB
CHECKED: WAE
DATE: MAY, 2009
PROJECT NO. 09033
DRAWING NO.