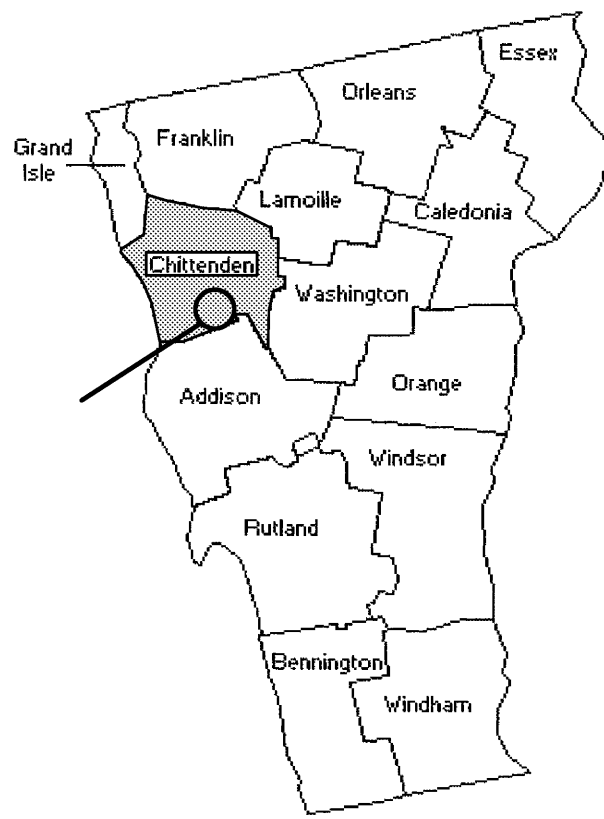
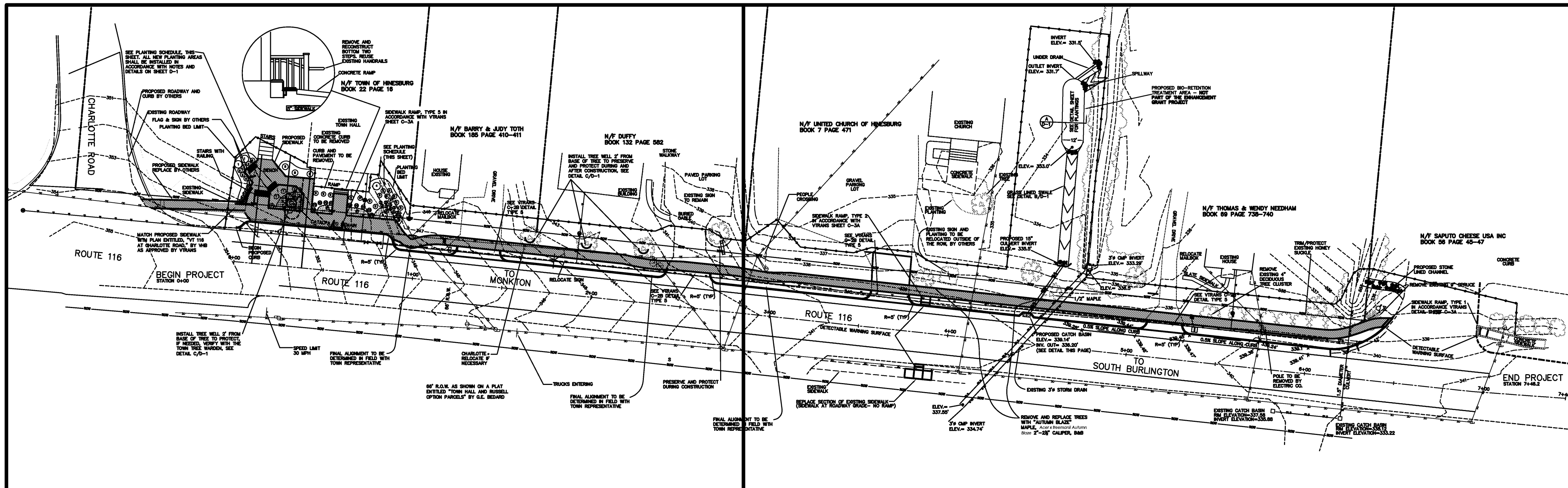
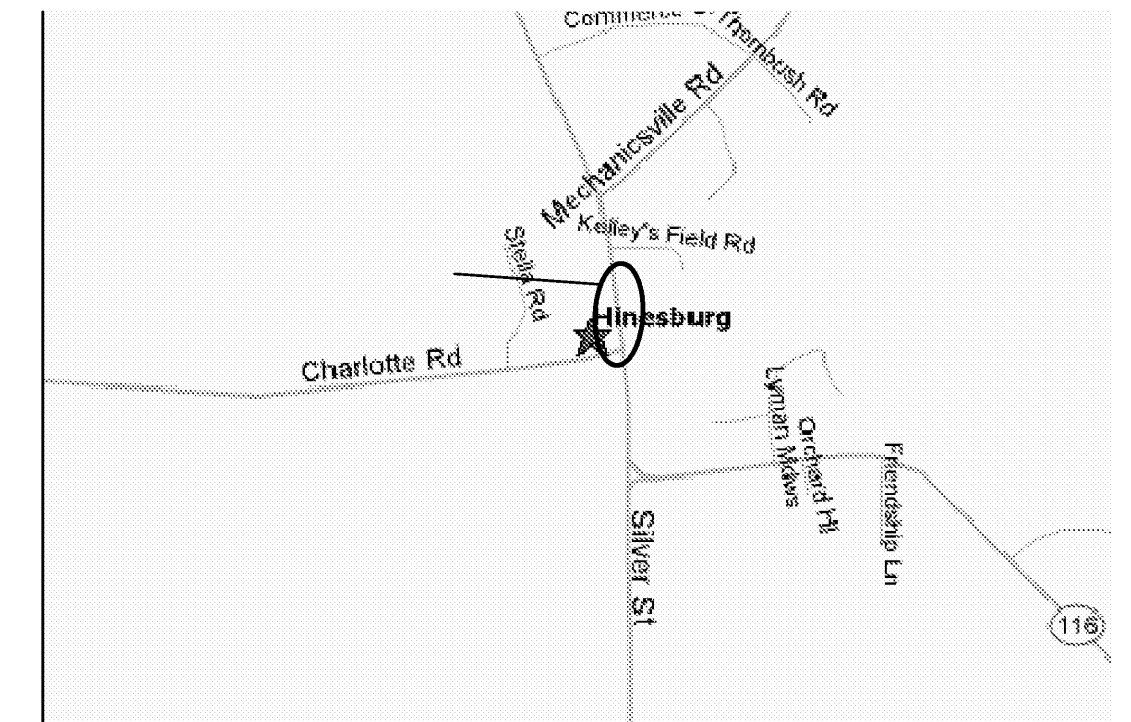




HINESBURG STP EH 05(22)

VILLAGE STREETSCAPE IMPROVEMENTS ROUTE 116, HINESBURG, VERMONT DECEMBER, 2006

BEGINNING AT THE NORTH END OF THE INTERSECTION OF CHARLOTTE ROAD AND ROUTE 116 AND PROGRESSING 746 FEET NORTH ALONG ROUTE 116. WORK TO BE PERFORMED UNDER THIS CONTRACT INCLUDES GRANITE CURB, CONCRETE SIDEWALK, DRAINAGE, LANDSCAPING, A STORMWATER TREATMENT SYSTEM AND RELATED WORK.



ENGINEERING AND ENVIRONMENTAL SERVICES
P.O. BOX 212, WILLISTON, VT, 05495
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RECORD DRAWINGS

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FUNDING ASSISTANCE FOR THIS PROJECT IS
BEING FURNISHED BY VTRANS

TOWN OF HINESBURG	VERTICAL DATUM
APPROVED _____ DATE _____	NAD 1988 HORIZONTAL NAD 1983

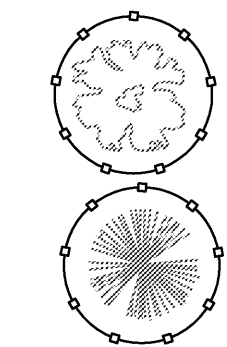
SHEET INDEX

SHEET "P-1", SITE PLAN
SHEET "P-2", SITE PLAN
SHEET "D-1", DETAILS
SHEET "C-1", CROSS SECTIONS
SHEET "C-2", CROSS SECTIONS
SHEET "C-3", CROSS SECTIONS
SHEET "EP-1", EROSION AND SEDIMENT CONTROL
SHEET "ROW-1", COVER
SHEET "ROW-2", RIGHT-OF-WAY PLAN
SHEET "ROW-3", RIGHT-OF-WAY PLAN
SHEET "ROW-4", RIGHT-OF-WAY PLAN
SHEET "TSL-1", TEMPORARY CONSTRUCTION SIGNAGE
VTRANS STANDARD DETAIL "B-71", 7/8/05
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GRANITE SLOPE EDGING, VERTICAL GRANITE CURB,
PRECAST REINFORCED CONCRETE CURB
CAST IN PLACE CONCRETE CURB
BITUMINOUS CONCRETE CURB, TREATED TIMBER CURB
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VTRANS STANDARD DETAIL "D-8", 1/3/2000
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COVER AND BOTTOM GRATE SECTION
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VTRANS STANDARD DETAIL "E-160", 5/20/99
FLANGED CHANNEL STEEL SIGN POST
VTRANS STANDARD DETAIL "E-162", 5/20/99
TUBULAR ALUMINUM SIGN POST
VTRANS STANDARD DETAIL "E-170", 11/4/99
TRAFFIC CONTROL SIGNALS PEDESTAL POST MOUNTED

PLANTING SCHEDULE FOR TOWN HALL - WORK WITH TOWN OF HINESBURG FOR EXACT PLANT LOCATIONS				
ITEM	QTY#	BOTANICAL NAME	COMMON NAME	SIZE
TREES				
1	2	AMELANCHIER CUMULUS	SERVICEBERRY	2-2 1/2" CALIPER & 8'6"
2	1	CATALPA SPECIOSA	CATALPA	1 1/2" - 2" CALIPER & 8'6"
SHRUBS				
3	12	EUONYMUS COLORATUS	WINTERCREEPER	15-18" SPREAD
4	1	HYDRANGEA PANICULATA	HYDRANGEA PEE GEE	5-6' HEIGHT
5	8	MICROBIOTA DECUSATA	SIBERIAN CYPRESS	12-15" SPREAD
6	7	RHODODENDRON OLGA MEZITT	RHODODENDRON	18-24" HEIGHT
7	4	SYRINGA MEYERII	DWARF KOREAN LILAC	3-4' HEIGHT
8	3	SYRINGA MONICE	MONICE LILAC	4-5' HEIGHT
9	7	TAXUS DENSIFORMIS	DENSE YEW	18-24" HEIGHT
10	15	VACCINIUM ANGUSTIFOLIUM	DWARF BLUEBERRY	18-24" HEIGHT
PERENNIALS				
12	5	ASTILBE FANAL	ASTILBE RED	1 GALLON POT
13	12	BAPTISIA AUSTRALIS	FALSE BLUE INDIGO	1 GALLON POT
14	15	HEUCHERA AMERICANA	"GREEN SPICE" HEUCHERA	4" POT
15	30	LAMLIUM "PINK PEWEE"	DEAD NETTLE	DNI
16	4	NARCISSUS "MT HOOD"	MT HOOD DAFFODIL	DNI
17	4	PAEONIA "FESTIVA MAXIMA"	PEONY WHITE	2 GALLON POT

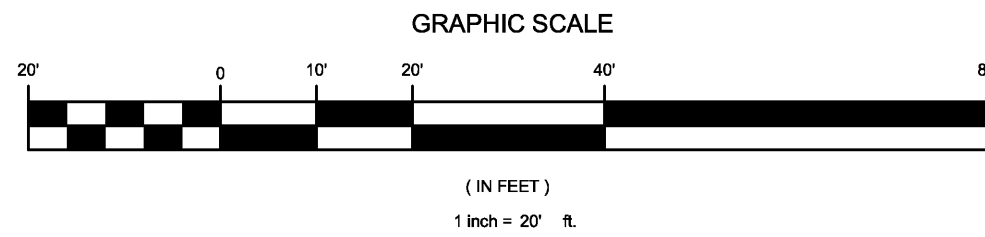
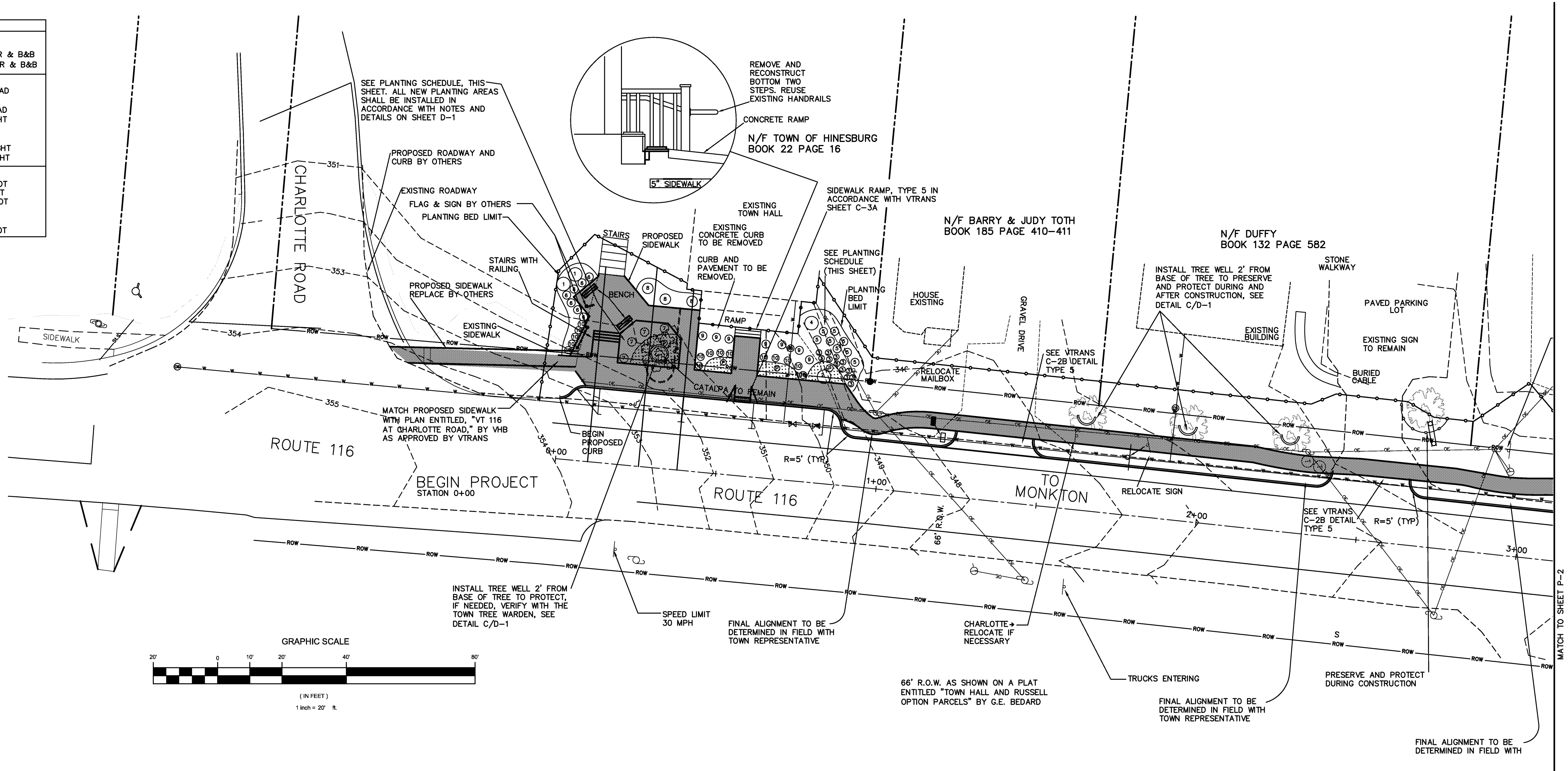
LEGEND		EXISTING	PROPOSED
BUFFER			
BUILDING			
CATCH BASIN			
CENTERLINE			
CONSTRUCTION LIMIT			
CONTOUR			
CURB			
CURB STOP			
EASEMENT			
FENCE			
GAS LINE			
GRAVEL			
HYDRANT			
LIGHT			
PAVEMENT			
OVERHEAD POWER			
PROPERTY LINE			
RIGHT OF WAY			
SANITARY SEWER			
SETBACK			
SEWER MANHOLE			
SIDEWALK			
SIGNAGE			
STORM MANHOLE			
STORM SEWER			
TREE LINE			
UTILITY POLE			
VALVE			
WATER LINE			
NEW PAVEMENT			

PRESERVE AND PROTECT ALL EXISTING TREES DURING CONSTRUCTION. IF AN EXISTING TREE IS DAMAGED DURING CONSTRUCTION, IT MUST BE REPLACED WITH A NEW TREE USING THE ISA/(INTERNATIONAL SOCIETY OF ARBOCULTURE) FORMULA.

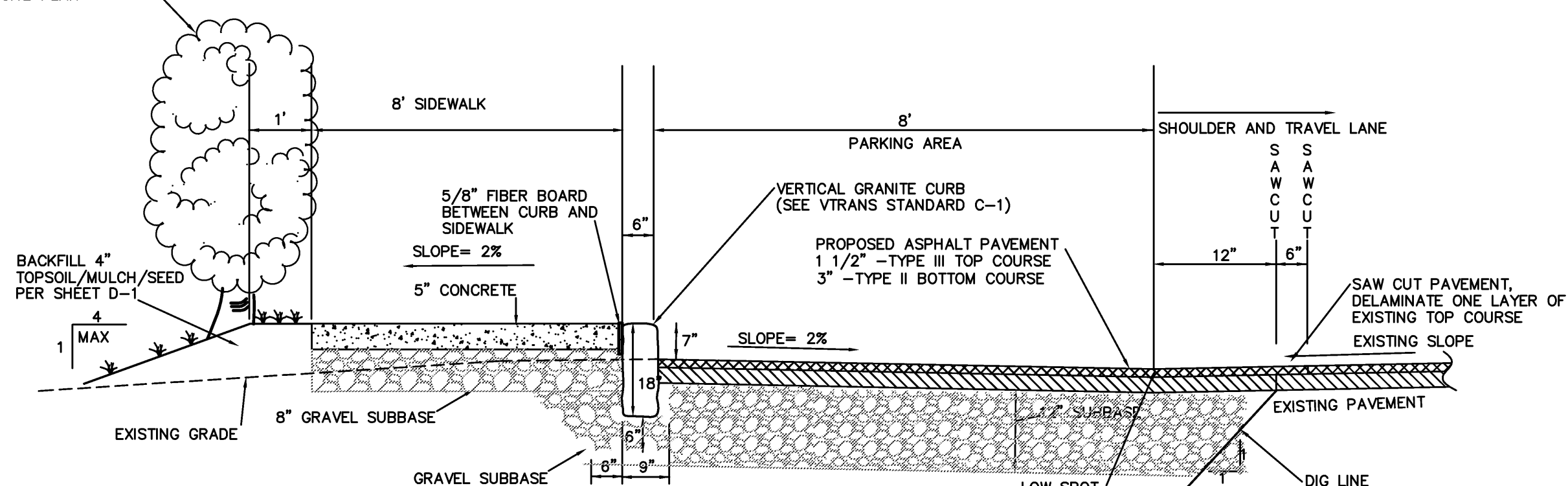


EXISTING DECIDUOUS TREE TO BE PROTECTED WITH SNOW FENCE MIN OF 5' FROM BASE DURING CONSTRUCTION

EXISTING CONIFEROUS TREE TO BE PROTECTED WITH SNOW FENCE MIN OF 5' FROM BASE DURING CONSTRUCTION

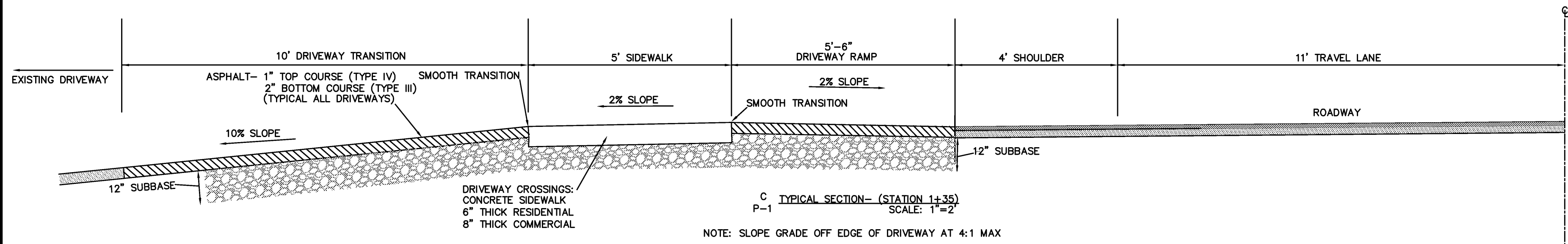


PLANTINGS AS SHOWN ON SITE PLAN

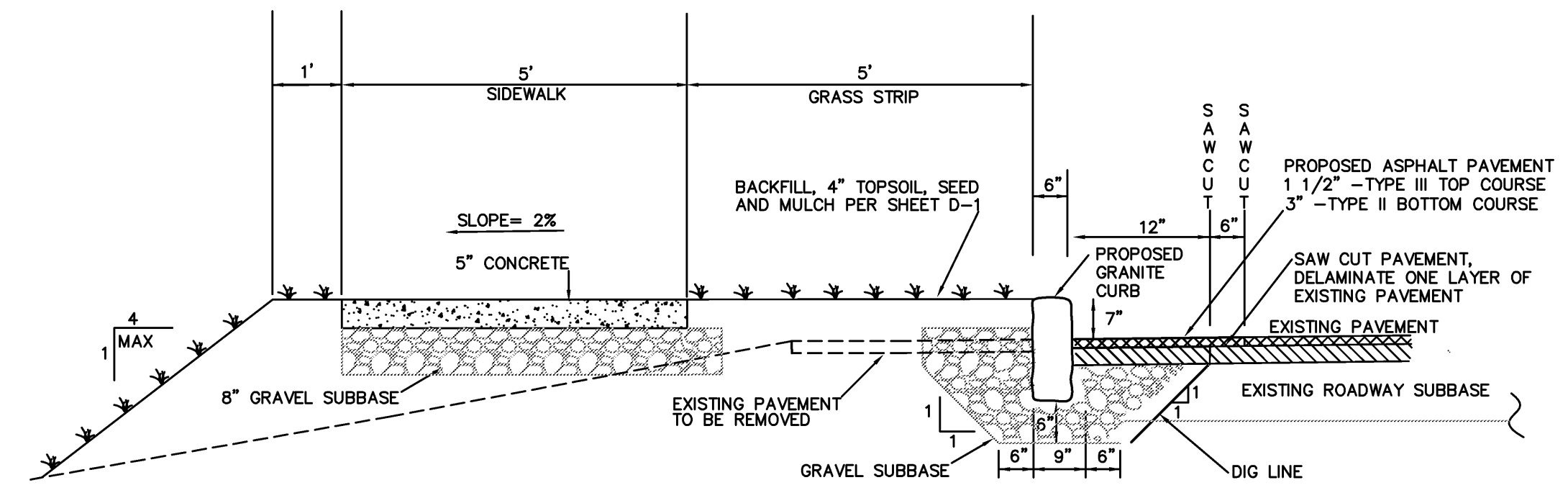


B TYPICAL SIDEWALK DETAIL (STATION 0+12 TO STATION 0+82) SCALE: 1\"/>

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C TYPICAL SECTION - (STATION 1+35) SCALE: 1\"/>



D TYPICAL SIDEWALK DETAIL (STATION 2+00 SHOWN) SCALE: 1\"/>

REVISIONS	BY
1. INCLUDE COMMENTS FROM STATE AGENCIES	02-23-07 LMM
2. REMOVE THE PEDESTRIAN SIGN	05-07-07 LMM
3. RELOCATED SIDEWALK AROUND UTILITY POLES	07-18-07 LMM

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HINESBURG STP EH05(22)
VILLAGE STREETSCAPE IMPROVEMENTS
ROUTE 116
HINESBURG, VERMONT

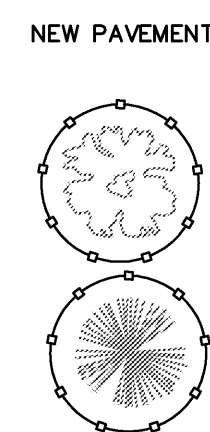
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CHECKED	ES
DATE	01/22/08
SCALE	1"=20'
JOB NO.	20051114
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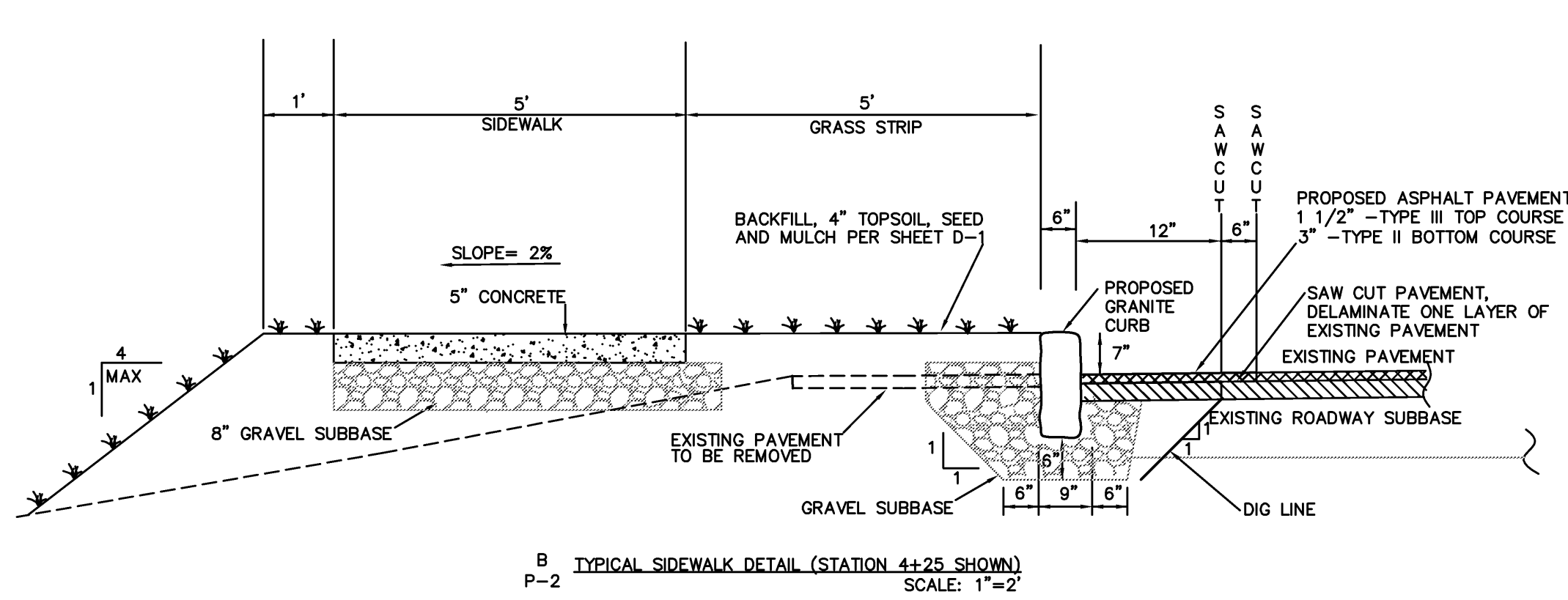
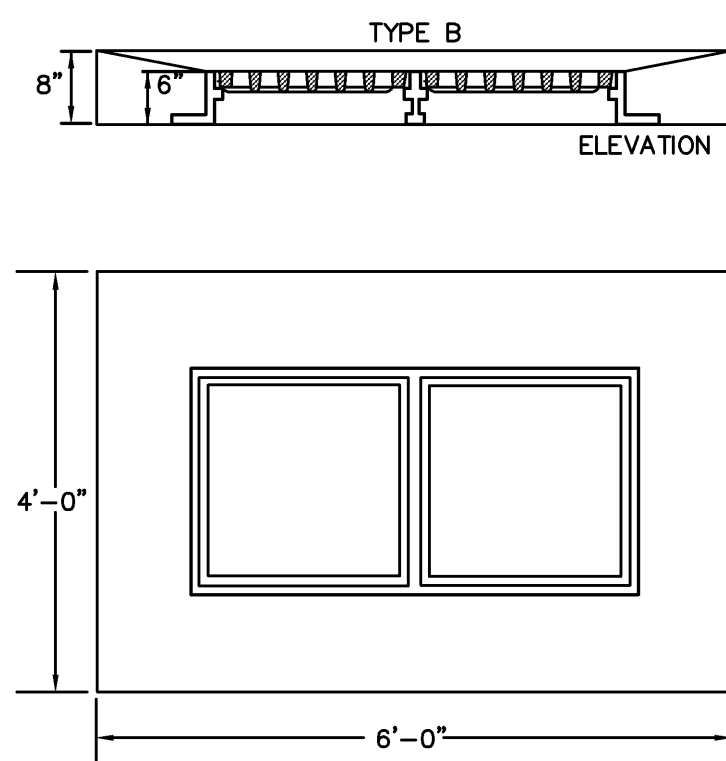
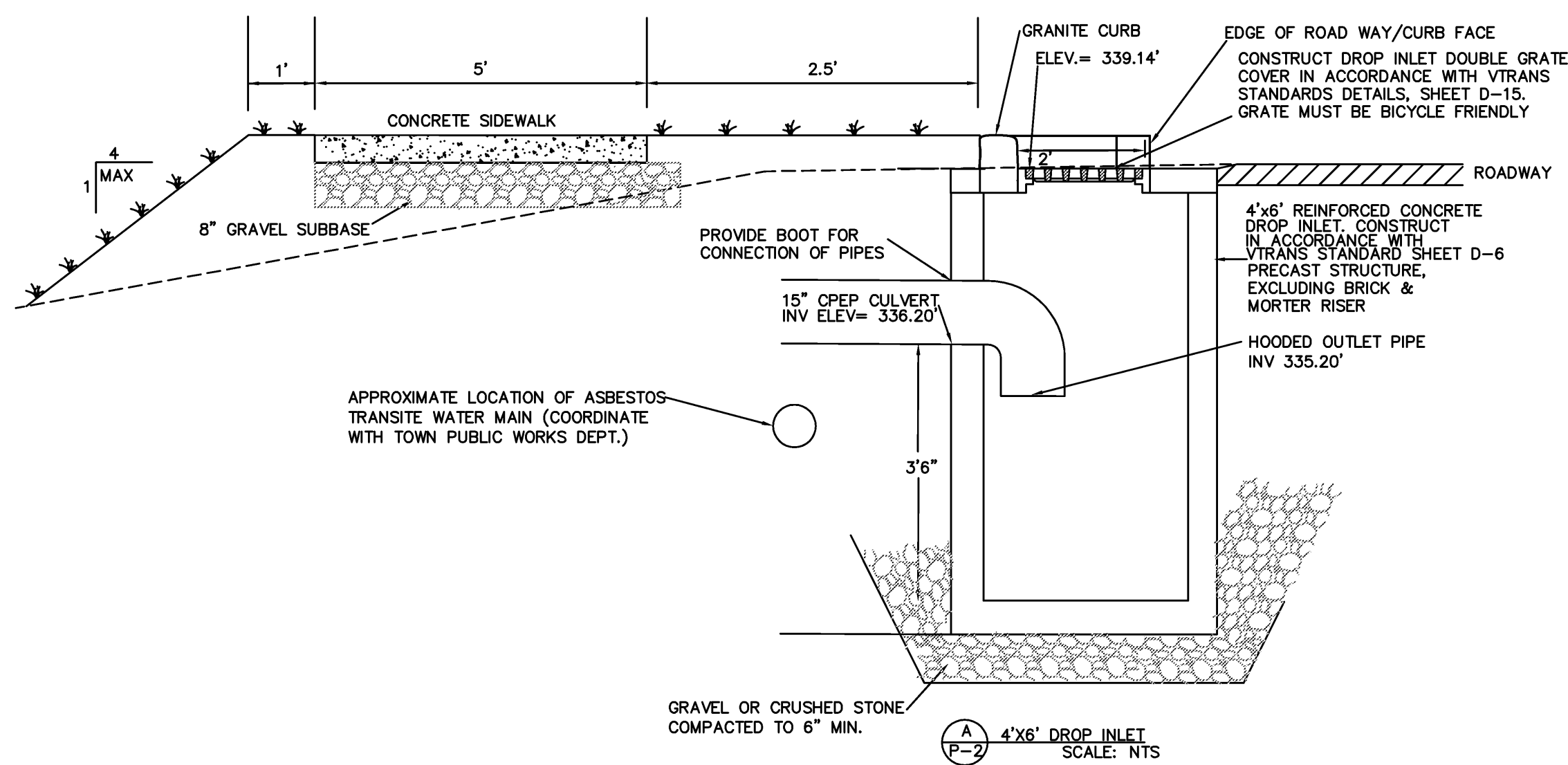
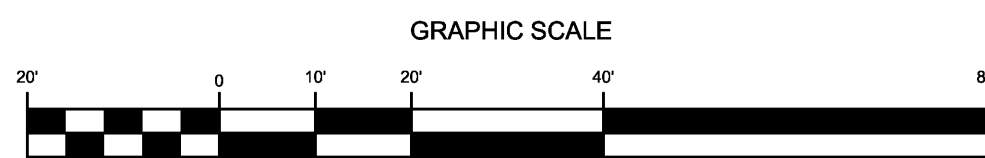
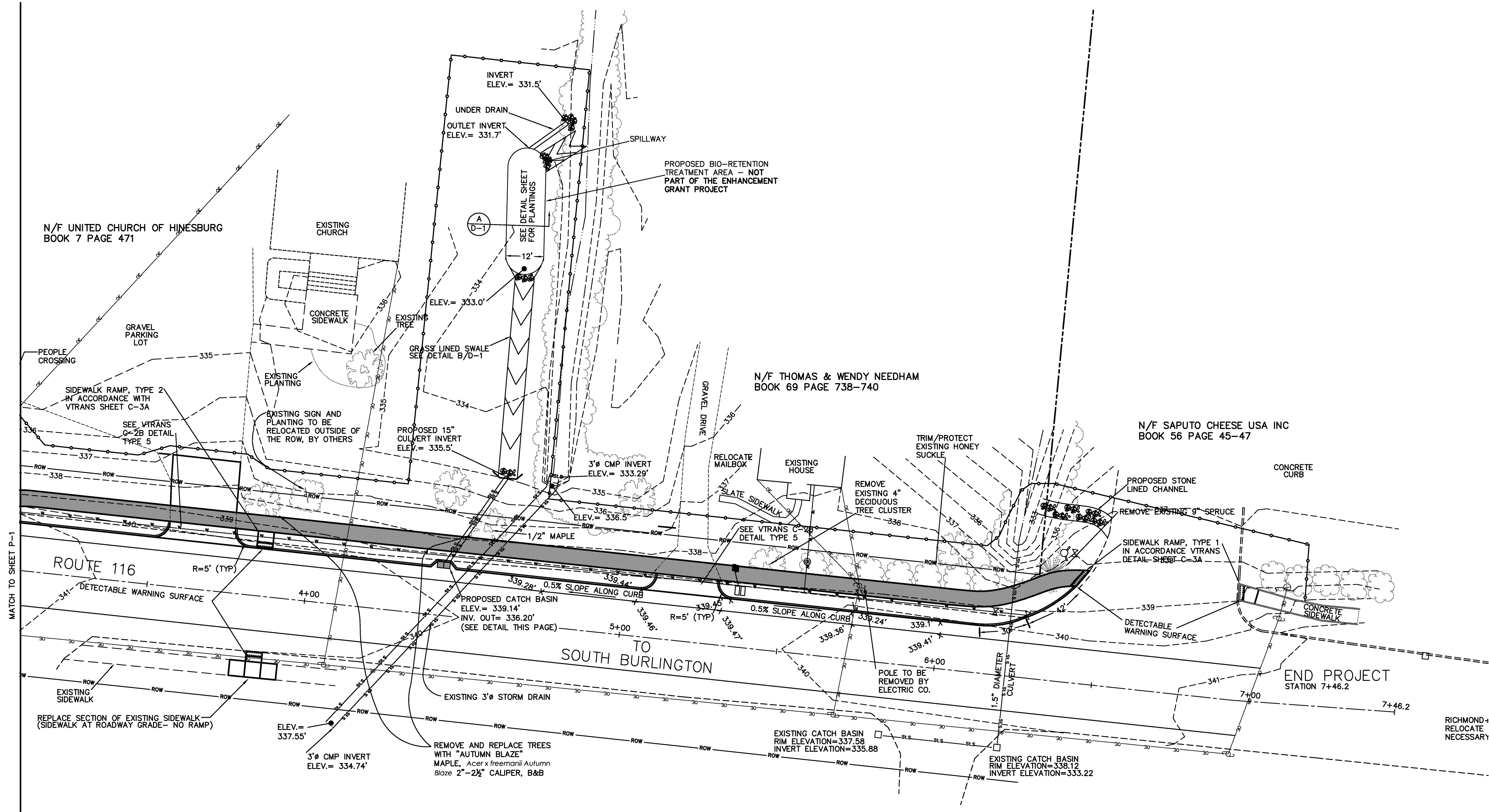
LEGEND

	EXISTING	PROPOSED
BUFFER		
BUILDING		
CATCH BASIN		
CENTERLINE		
CONSTRUCTION LIMIT		
COURT		
CURB		
CURB STOP		
EASEMENT		
FENCE		
GAS LINE		
GRAVEL		
HYDRANT		
LIGHT		
PAVEMENT		
OVERHEAD POWER		
PROPERTY LINE		
RIGHT OF WAY		
SANITARY SEWER		
SEIBACK		
SEWER MANHOLE		
SIDEWALK		
SIGNAGE		
STORM MANHOLE		
STORM SEWER		
TREE LINE		
UTILITY POLE		
VALVE		
WATER LINE		



EXISTING DECIDUOUS TREE TO BE PROTECTED WITH SNOW FENCE MIN OF 5' FROM BASE DURING CONSTRUCTION

EXISTING CONIFEROUS TREE TO BE PROTECTED WITH SNOW FENCE MIN OF 5' FROM BASE DURING CONSTRUCTION



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REVISIONS	BY
1-Include comments from Army Ball	02-23-07 LUM
2-REMOVE THE PEDESTRIAN SIGNS	05-07-07 LUM
3-RELOCATED SIDEWALK AROUND UTILITY POLES	07-18-07 LUM

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HINESBURG STP EH05(22)
VILLAGE STREETScape IMPROVEMENTS
ROUTE 116
HINESBURG, VERMONT

DRAWN	DM
CHECKED	ES
DATE	01/22/08
SCALE	1"=20'
JOB NO.	20051114
SHEET	

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GENERAL CONSTRUCTION NOTES

- 1) CONTRACTOR SHALL CONTACT DIG SAFE AND HINESBURG WATER DEPARTMENT AT LEAST 72 HOURS PRIOR TO ANY SUBGRADE CONSTRUCTION.
- 2) WHERE DISCREPANCIES EXIST BETWEEN BUILDING CODES, STATE LAWS, LOCAL ORDINANCES, UTILITY COMPANY REGULATIONS, MANUFACTURER RECOMMENDATIONS, AND THESE PLANS, THE MOST STRINGENT SHALL APPLY.
- 3) LOCATIONS OF UNDERGROUND UTILITIES ARE NOT BASED ON "DIG SAFE MARKINGS AND ARE NOT WARRANTED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS OF EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY, PUBLIC OR PRIVATE.
- 4) THE CONTRACTOR SHALL MAINTAIN AS-BUILT PLANS WITH TIES AND ELEVATIONS FOR ALL UNDERGROUND UTILITIES. AS-BUILT PLANS SHALL BE SUBMITTED TO THE TOWN OF HINESBURG AT THE COMPLETION OF THE PROJECT.
- 5) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK NECESSARY FOR COMPLETE AND OPERABLE FACILITIES AND UTILITIES.
- 6) THE CONSTRUCTION OF THE SIDEWALK MAY REQUIRE THE REMOVAL AND RESETTling OF EXISTING PROPERTY AND RIGHT-OF-WAY MONUMENTS. THE CONTRACTOR SHALL NOT DISTURB THE AREAS ADJACENT TO ANY MONUMENT UNTIL THE OWNER'S VERMONT LICENSED SURVEYOR HAS DOCUMENTED THE LOCATION OF THE MONUMENT. THE OWNER'S SURVEYOR WILL REMOVE THE MONUMENT AND REPLACE THE MONUMENT AFTER THE SIDEWALK HAS BEEN CONSTRUCTED TO CRUSHED GRAVEL GRADE. THE CONTRACTOR SHALL PROTECT THE RESET MONUMENT WITH A VALVE BOX AND COVER SET FLUSH WITH THE FINISHED PAVING GRADE, AS SHOWN ON THE DETAIL DRAWINGS.
- 7) THIS PLAN IS NOT INTENDED TO BE A BOUNDARY SURVEY. THE APPROXIMATE PROPERTY LINES ARE BASED ON FIELD WORK AND TAX MAPS FROM THE TOWN OF HINESBURG.
- 8) THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF STRUCTURES, VEGETATION, AND PAVEMENT NECESSARY TO CONSTRUCT THE PROJECT. UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIAL, DEBRIS, AND TRASH FROM THE SITE UPON COMPLETION OF CONSTRUCTION, UNLESS OTHERWISE DIRECTED BY THE TOWN.
- 9) ANY DE-WATERING THAT IS NECESSARY FOR THE COMPLETION OF SITE WORK SHALL BE CONSIDERED AS PART OF THE CONTRACT AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- 10) ANY CONFLICTS OR INCONSISTENCIES WITH THE PLANS OR SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
- 11) ENGINEER ASSUMES NO RESPONSIBILITY FOR THE CONTINUED PROPER USE OR MAINTENANCE OF THE SYSTEM.
- 12) THE CONTRACTOR SHALL CONFORM TO ALL PERMITS AND EASEMENTS ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT. IN PARTICULAR: TEMPORARY CONSTRUCTION EASEMENTS FOR PRIVATE PROPERTIES, CONDITIONAL USE DETERMINATION (CUD), AND STREAM ALTERATION.

CONSTRUCTION NOTES

- 1) ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH CONSTRUCTION SPECIFICATIONS PROVIDED AND THE MOST RECENT VTRANS STANDARD SPECIFICATIONS. IN CASE OF CONFLICT OF SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY. ALL WORK SHALL BE COMPLETED IN A WORKMANLIKE MANNER AND SHALL BE COMPLETED IN THE TIME SPECIFIED BY THE OWNER.
- 2) NEW SIDEWALK SHALL BE CONSTRUCTED TO LINE AND GRADE SHOWN ON DRAWINGS. COORDINATE WITH THE TOWN OF HINESBURG PUBLIC WORKS OFFICE PRIOR TO CONSTRUCTION.
- 3) METHODS FOR PREPARATION OF SUBGRADE SHALL CONFORM TO THE MOST RECENT VERMONT AGENCY OF TRANSPORTATION SPECIFICATIONS SECTION 203.12.
- 4) ANY SUBGRADE DISTURBED BY THE CONTRACTOR, OR RENDERED UNSUITABLE BY CONSTRUCTION MACHINERY SHALL BE REMOVED AND REPLACED WITH APPROVED GRANULAR BACKFILL AT THE CONTRACTOR'S EXPENSE.
- 5) SUBGRADE SHALL BE COMPACTED TO 95% OF THE MAXIMUM COMPACTION DENSITY (STANDARD PROCTOR) FOR SIDEWALK AND PAVEMENT CONSTRUCTION.
- 6) FILL MATERIAL SHALL BE APPROVED BY THE ENGINEER. FILL SHALL BE PLACED IN 6" LIFTS, WETTED AND COMPACTED WITH SATISFACTORY COMPACTION EQUIPMENT. FILL SHALL BE COMPACTED TO 95% OF THE MAXIMUM COMPACTION DENSITY.
- 7) GRAVEL SUBBASE FOR SIDEWALK SHALL CONFORM TO THE MOST RECENT VERMONT AGENCY OF TRANSPORTATION SPECIFICATIONS SECTION 704.05A COARSE AND FINE, AND PLACEMENT SHALL CONFORM TO SECTION 301.
- 8) ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO CONDITIONS EQUAL TO OR BETTER THAN THOSE EXISTING AT THE START OF CONSTRUCTION, OR AS OTHERWISE SPECIFIED. SHOULD THE CONTRACTOR DISTURB AREAS BEYOND THE CONSTRUCTION LIMITS, EASEMENTS, OR RIGHT OF WAYS, THIS RESTORATION WILL BE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXISTING UTILITIES AND THEIR UNINTERRUPTED SERVICE. ALL OFF-SITE BACKFILL, SHEETING, SHORING, DE-WATERING, EROSION CONTROL, CLEARING, GRUBBING, DUST CONTROL, TRAFFIC CONTROL, GRADING, AND INCIDENTALS TO MAKE THE WORK COMPLETE SHALL BE INCLUDED AS PART OF THE REQUIRED WORK.
- 9) SIGN POSTS SHALL BE TUBULAR ALUMINUM. CONSTRUCT IN ACCORDANCE WITH VTRANS STANDARD SHEET E-162.

TRAFFIC CONTROL NOTES

- 1) TRAFFIC CONTROL SIGNING AND CHANNELING DEVICES SHALL BE IN ACCORDANCE WITH CURRENT VERSION OF MUTCD AND THE APPROPRIATE VTRANS STANDARD DETAILS.
- 2) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PREPARE TRAFFIC CONTROL PLANS FOR EACH PHASE OF CONSTRUCTION AND SUBMIT TO THE TOWN FOR APPROVAL.
- 3) APPROACH CONSTRUCTION SIGNING SHALL REMAIN IN PLACE DURING THE ENTIRE CONSTRUCTION PERIOD. OTHER SIGNING SHALL BE REMOVED OR COVERED WHEN NOT APPLICABLE.
- 4) TO FACILITATE THE FLOW OF TRAFFIC, THE TOWN SHALL HAVE AUTHORITY TO MODIFY THE CONTRACTOR'S ONGOING OPERATIONS OR PROPOSED METHODS OF CONSTRUCTION IN AND / OR NEAR THE CONSTRUCTION LIMITS AS IS DEEMED NECESSARY FOR THE SAFETY, CONVENIENCE AND WELFARE OF THE TRAVELING PUBLIC. THE CONTRACTOR SHALL COMPLY WITH THE TOWN DIRECTIVES CONCERNING THIS MATTER.

GENERAL LANDSCAPING NOTES

- 1) ORGANIC MATERIAL-TOPSOIL, COMPOST AND NATIVE EXISTING SOIL SHALL BE TESTED AT AN APPROVED LAB PRIOR TO DELIVERY ON SITE AND INSTALLATION. ORGANIC MATTER SHALL BE A MINIMUM OF 5%.
- 2) WATERING-SHRUBS TO RECEIVE A MINIMUM OF 5 GALLONS AT EACH WATERING, TREES TO RECEIVE A MINIMUM OF 10 GALLONS AT EACH WATERING. BOTH WILL BE WATERED TWICE A WEEK DURING ESTABLISHMENT PERIODS.
- 3) CONTRACTOR SHALL MAINTAIN AND PROVIDE A LOG TO THE ENGINEER SHOWING AMOUNTS AND DATES OF WATERING FOR ALL PLANTINGS AND NOTING NATURAL RAINFALL EVENTS. WATERING SCHEDULE MAY BE ADJUSTED AS APPROVED BY THE ENGINEER.

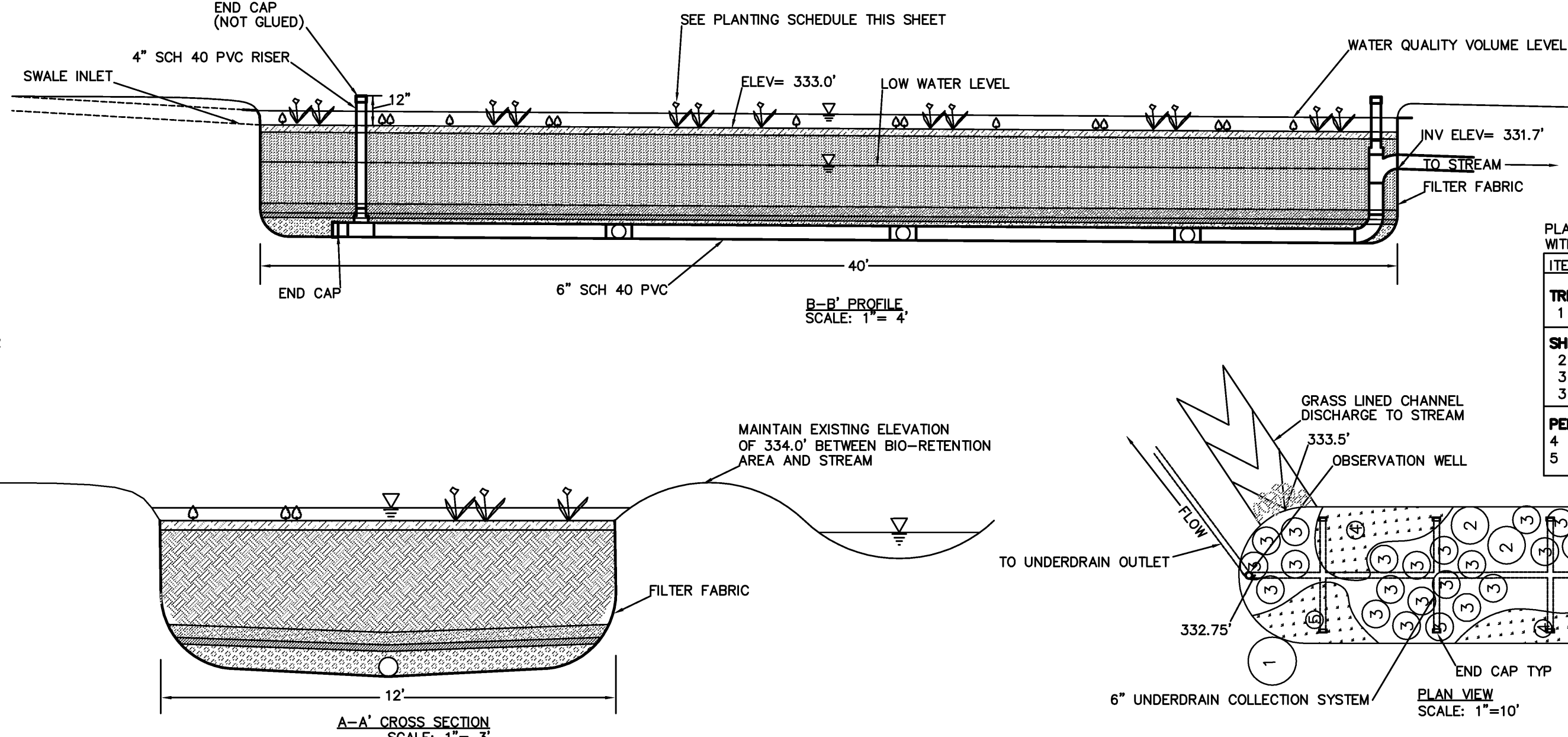
TOPSOIL - (SEE VTRANS STANDARD DETAIL SPECIFICATIONS 2006)

- 1) WHENEVER POSSIBLE, STOCKPILE AND REAPPLY TOPSOIL TO THE AREAS THAT ARE TO BE VEGETATED.
- 2) BACKFILL WITH PLANTING MIX OF ⅓ SCREENED TOPSOIL, ⅓ COMPOST AND ⅓ NATIVE MATERIAL AS APPROVED BY THE ENGINEER. UNSUITABLE NATIVE MATERIAL SHALL BE REPLACED WITH IMPORTED APPROVED TOPSOIL AS DIRECTED BY ENGINEER.
- 3) TOPSOIL SHALL HAVE NOT LESS THAN 20 PERCENT FINE TEXTURED MATERIAL (PASSING THE NO. 200 SIEVE) AND NOT MORE THAN 15 PERCENT CLAY.
- 4) TOPSOIL TREATED WITH SOIL STIMULANTS OR HERBICIDES SHALL BE SO IDENTIFIED TO THE PURCHASER.
- 5) TOPSOIL SHALL BE RELATIVELY FREE OF STONES OVER 1 ¼-INCH DIAMETER, TRASH, NOXIOUS WEEDS SUCH AS NUTSEDGE AND QUACK GRASS, AND WILL HAVE LESS THAN 10 PERCENT GRAVEL BY VOLUME.
- 6) TOPSOIL CONTAINING SOLUBLE SALTS GREATER THAN 500 PPM SHALL NOT BE USED.
- 7) TOPSOIL SHALL BE DISTRIBUTED TO A UNIFORM DEPTH OVER THE AREA. IT SHALL NOT BE PLACED WHEN IT IS PARTLY FROZEN, MUDDY, OR ON FROZEN SLOPES OR OVER ICE, SNOW, OR STANDING WATER PUDDLES.

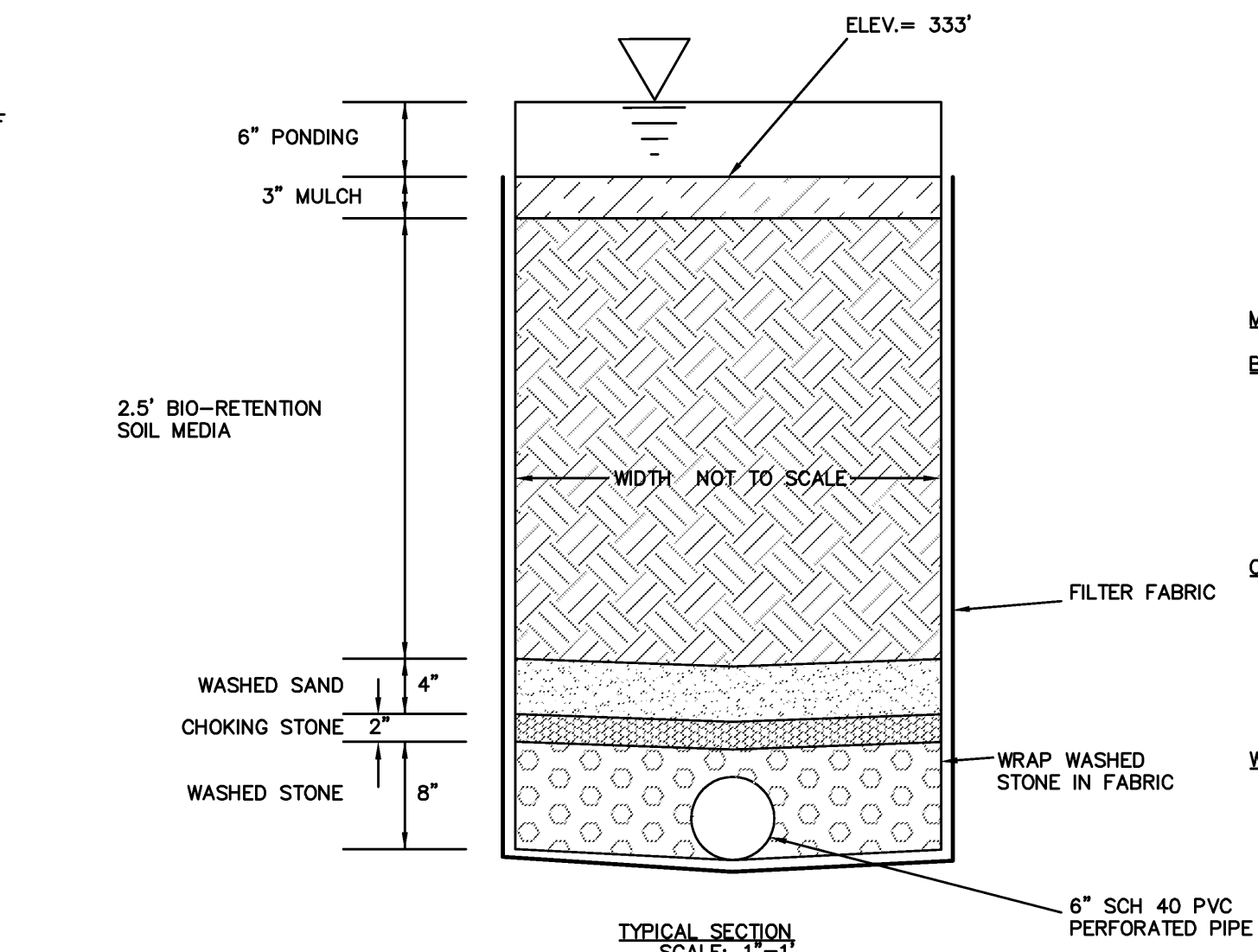
SEEDING

- 1) SOIL AMENDMENTS -
A. LIME TO PH OF 6.0
B. FERTILIZE WITH 600 LBS. OF 5-10-10 OR EQUIVALENT PER ACRE (14 LBS./1,000 SQ.FT.)
- 2) THE SEED MIXTURE SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.4% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS WEED SEED.
- 3) WATERING MAY BE ESSENTIAL TO ESTABLISH A NEW SEEDING. WEATHER CONDITIONS AND THE INTENDED WATER IRRIGATION IS A SPECIALIZED PRACTICE AND CARE NEEDS USE OF THE AREA WILL DICTATE WHEN TO BE TAKEN NOT TO EXCEED THE APPLICATION RATE / INFILTRATION RATE OF ANY GIVEN SOIL. EACH APPLICATION MUST BE UNIFORMLY APPLIED AND TWO INCHES OF WATER SHOULD BE APPLIED PER APPLICATION SETUP.
- 4) USE THE FOLLOWING SEED MIXTURE:

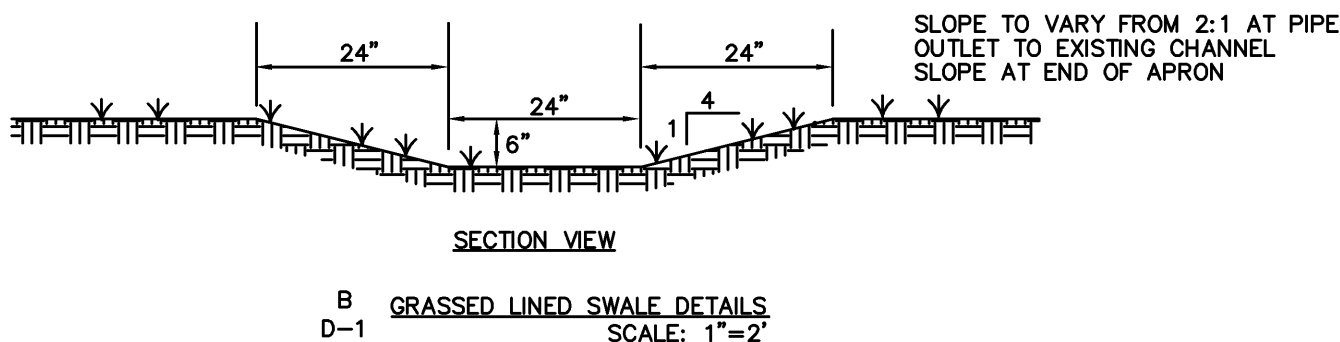
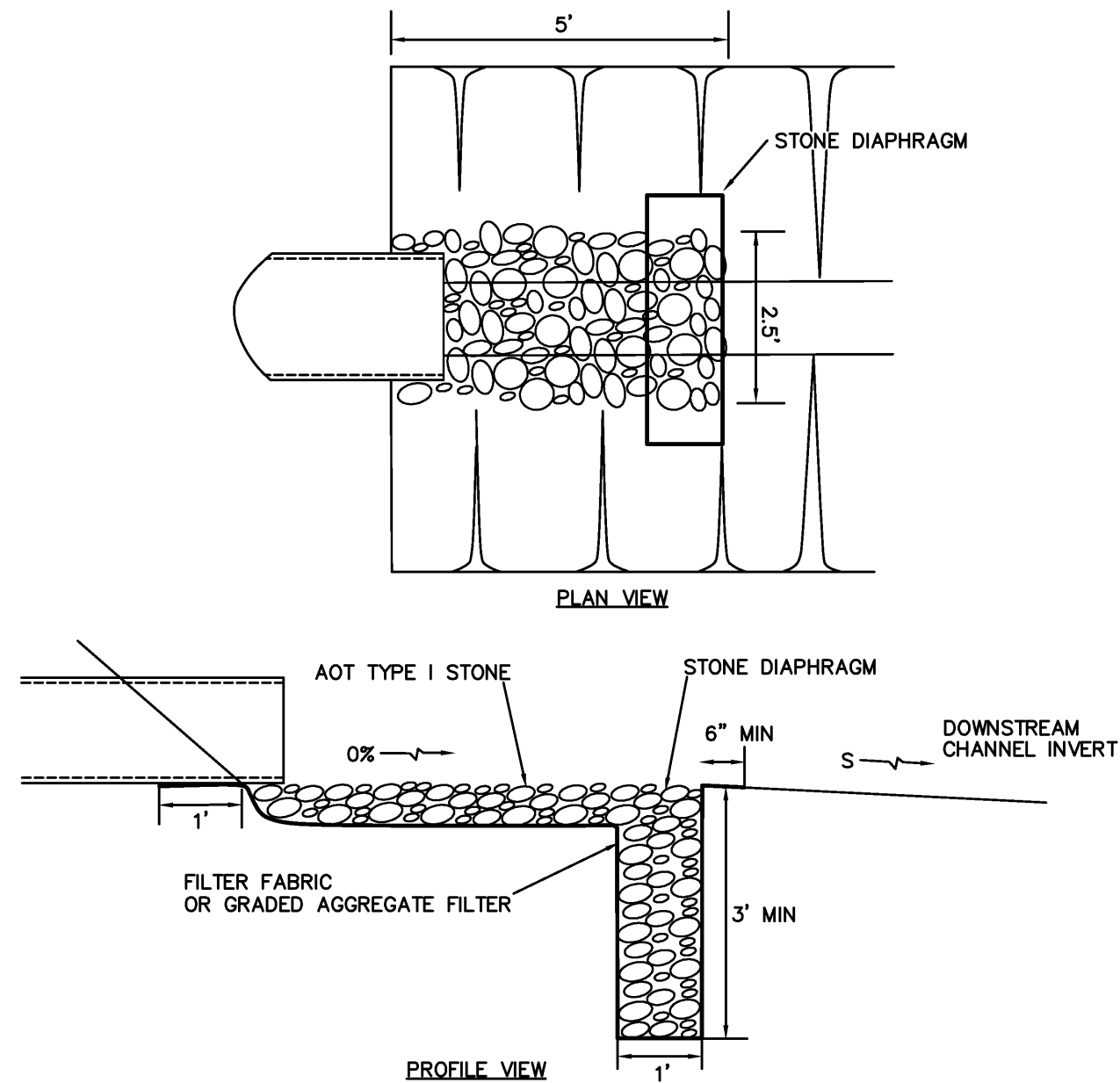
NAME	WEIGHT	LBS./ACRE	PUR%	GERM%
CREeping RED FESCUE	42.5	34.0	98	85
PERENNIAL RYE GRASS	10.0	8.0	95	90
KENTUCKY BLUE GRASS	42.5	34.0	85	85
ANNUAL RYE GRASS	5.0	4.0	95	95
	100.0	80.0		



ITEM	QTY#	BOTANICAL NAME	COMMON NAME	SIZE
TREES				
1	2	QUERCUS BICOLOR	SWAMP WHITE OAK	10"-12" B&B
SHRUBS				
2	3	HAMAMELIS VIRGINIANA	COMMON WITCHHAZEL	3'-4' HEIGHT
3	23	ILEX VERTICILLATA RED SPRITE	DWARF WINTERBERRY FEMALE	18"-24" HEIGHT
3	2	ILEX VERTICILLATA JM DANDY	WINTERBERRY MALE	18"-24" HEIGHT
PERENNIALS				
4	150	ONOCLEA SENSIBILIS	SENSITIVE FERN	4" POT
5	50	RUBICEKIA FULGIDA	BLACK-EYED SUSAN	4" POT

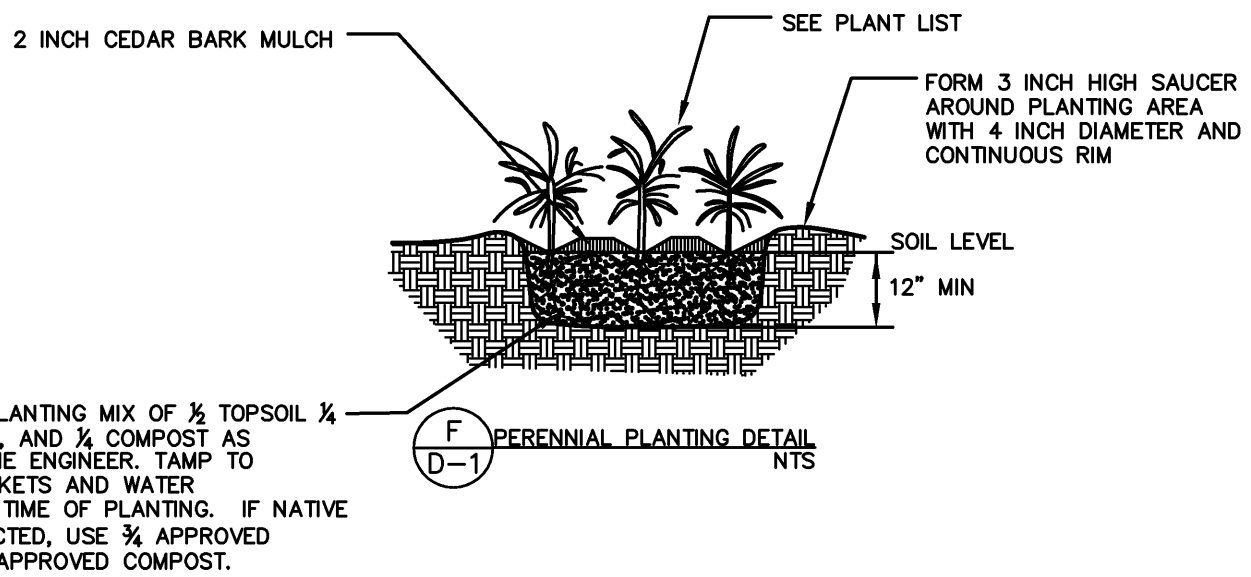
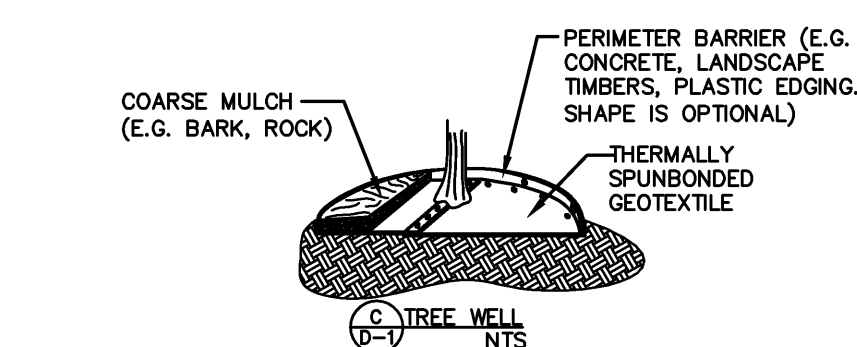
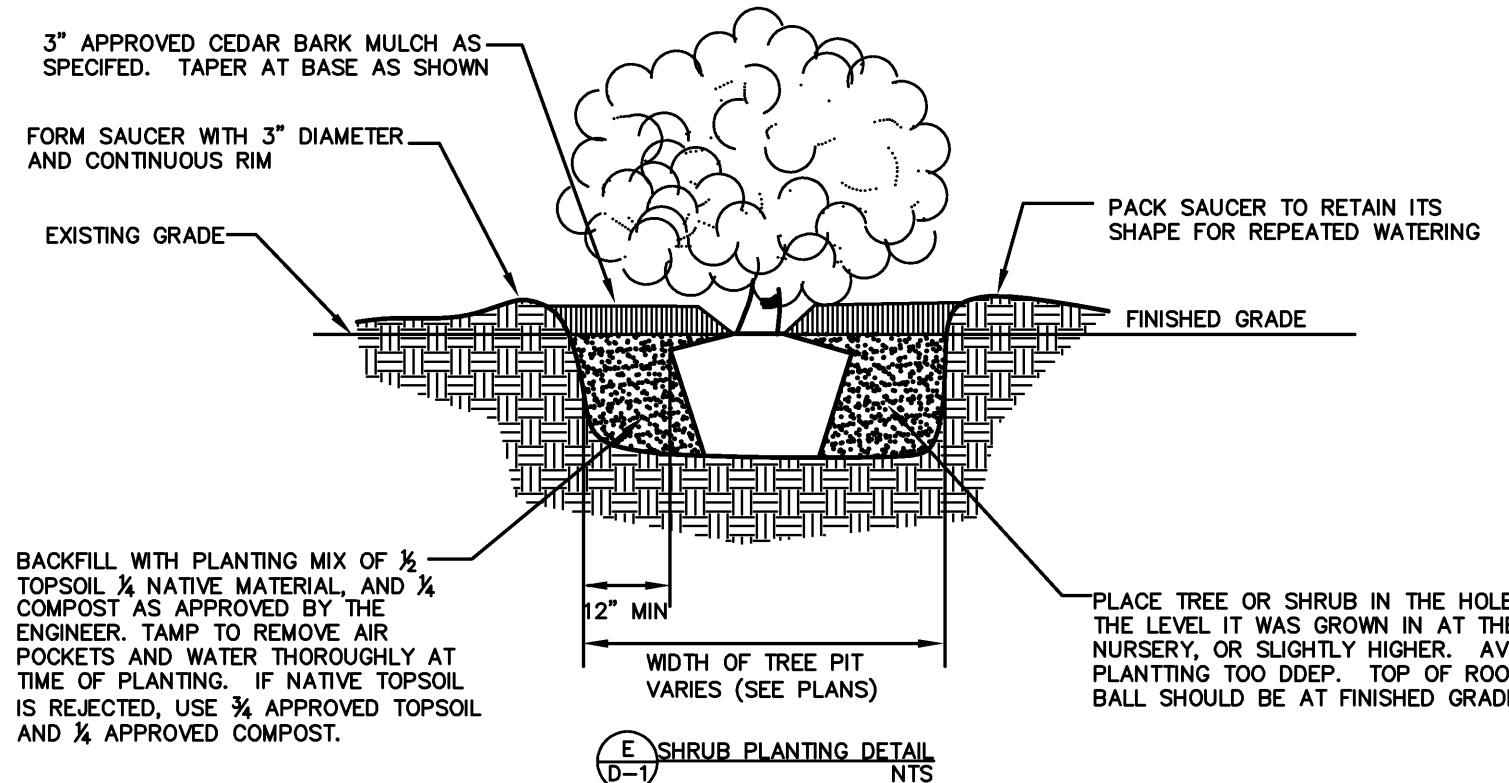
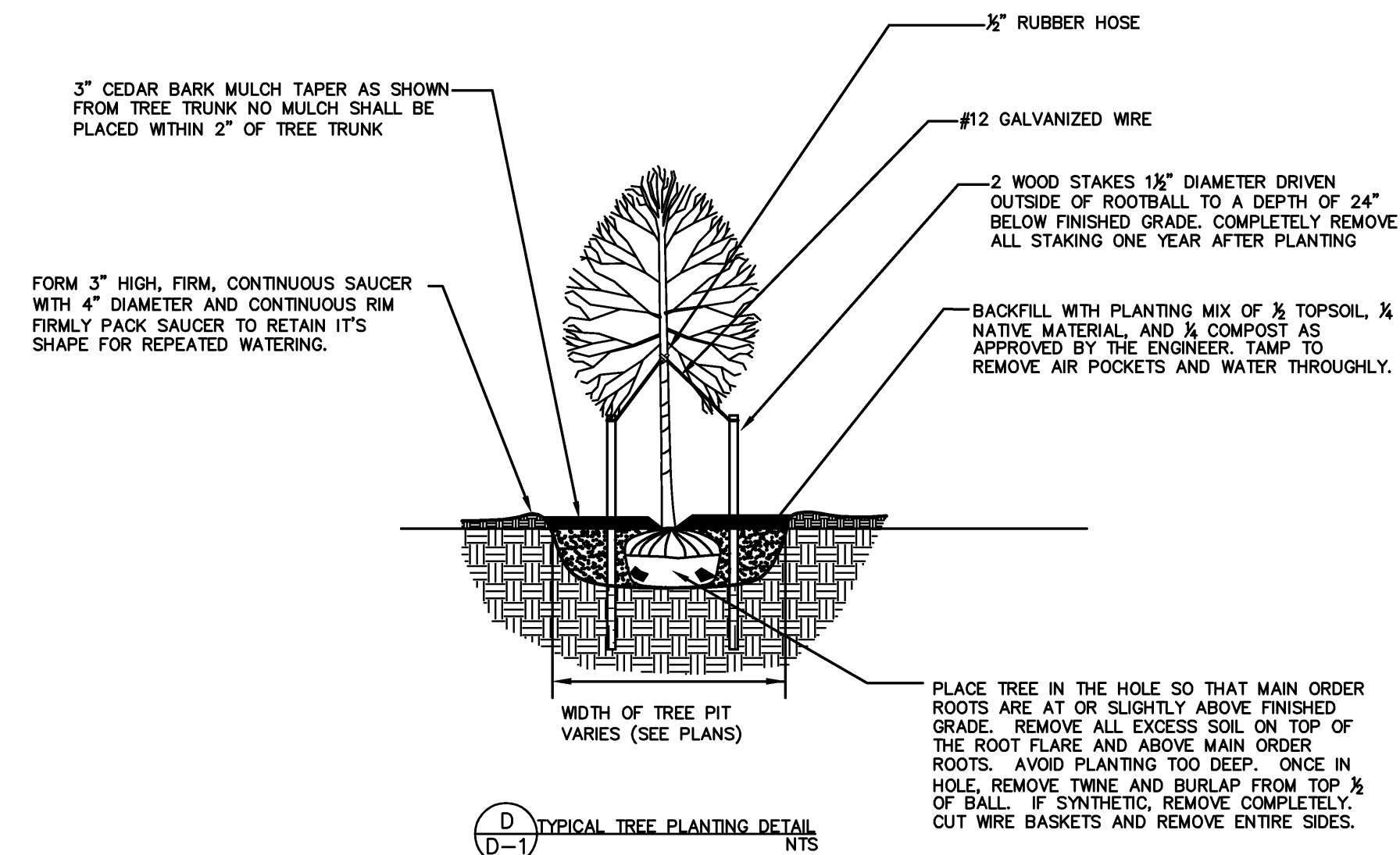


MULCH: SHREDDED HARDWOOD OR HARDWOOD CHIPS	
BIO-RETENTION SOIL MEDIA: (FROM THE INTERVAL OR APPROVED EQUAL)	
50% CONSTRUCTION SAND	
20-30% TOPSOIL WITH LESS THAN 5% MAXIMUM CLAY CONTENT	
20-30% ORGANIC LEAF COMPOST	
LOW P INDEX 10-30	
PH 5.5 TO 6	
FILL SOIL P-INDEX OF 10-30	
INFILTRATION = 1/2" PER HOUR MINIMUM	
CHOKING STONE: SIEVE ANALYSIS	
SIEVE SIZE	% PASSING (BY WEIGHT)
1/2"(12.5mm)	100
3/8"(9.5mm)	84-100
#4(4.75mm)	10-40
#20(2.36mm)	0-8
#16(1.18mm)	0-5
WASHED STONE: SIEVE ANALYSIS	
SIEVE SIZE	% PASSING (BY WEIGHT)
1/2"(12.5mm)	100
1"(25mm)	95-100
1/2"(12.5)	25-60
#4(4.75mm)	0-10
#20(2.36mm)	0-5



RECORD DRAWINGS

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FINAL PLANS FOR CONSTRUCTION

REVISIONS	BY
1-Include comments from Any Bid	02-23-07 LMM
2-REMOVE THE PEDESTRIAN SIGNS	06-07-07 LMM
3-RELOCATED SIDEWALK AROUND UTILITY POLES	07-18-07 LMM

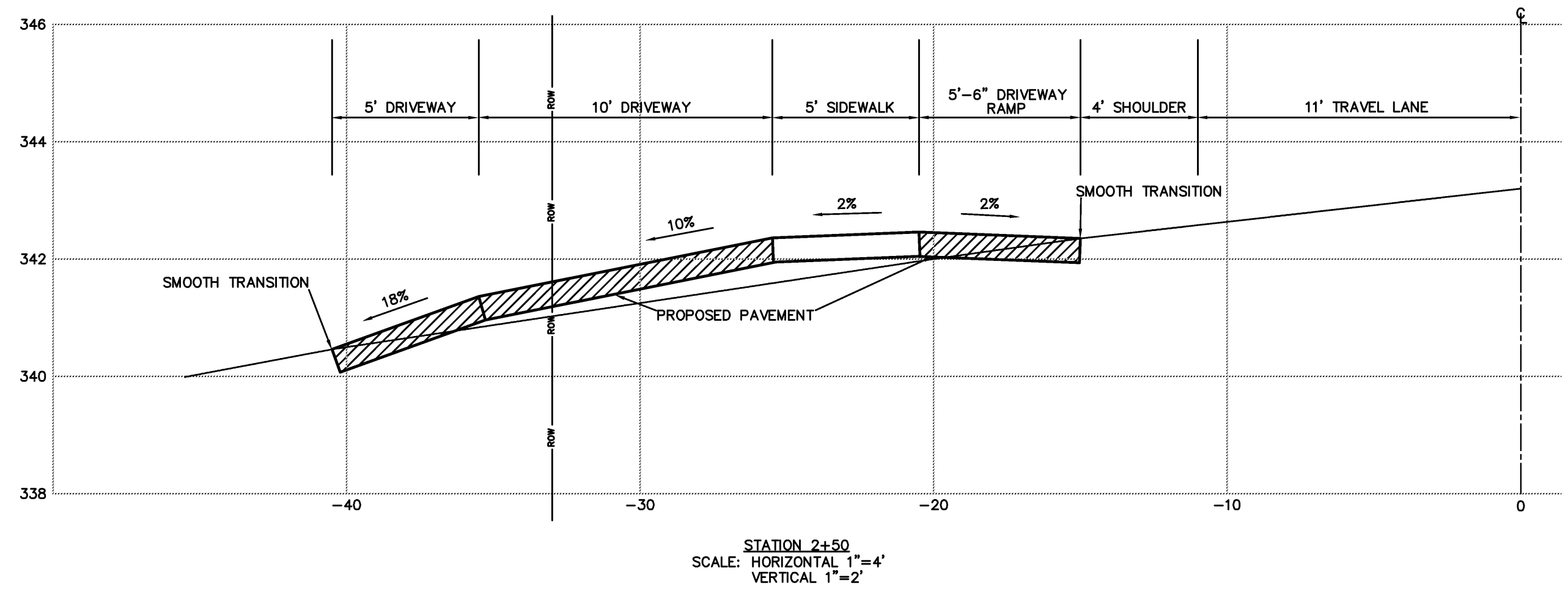
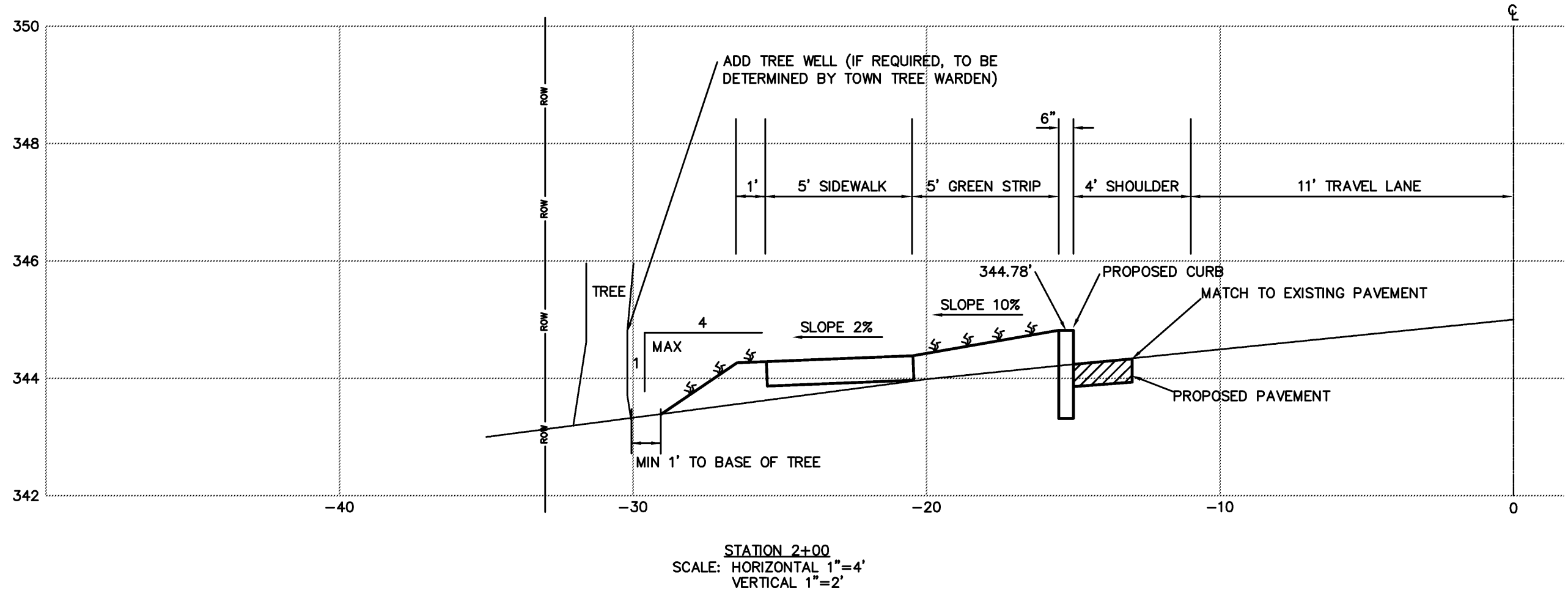
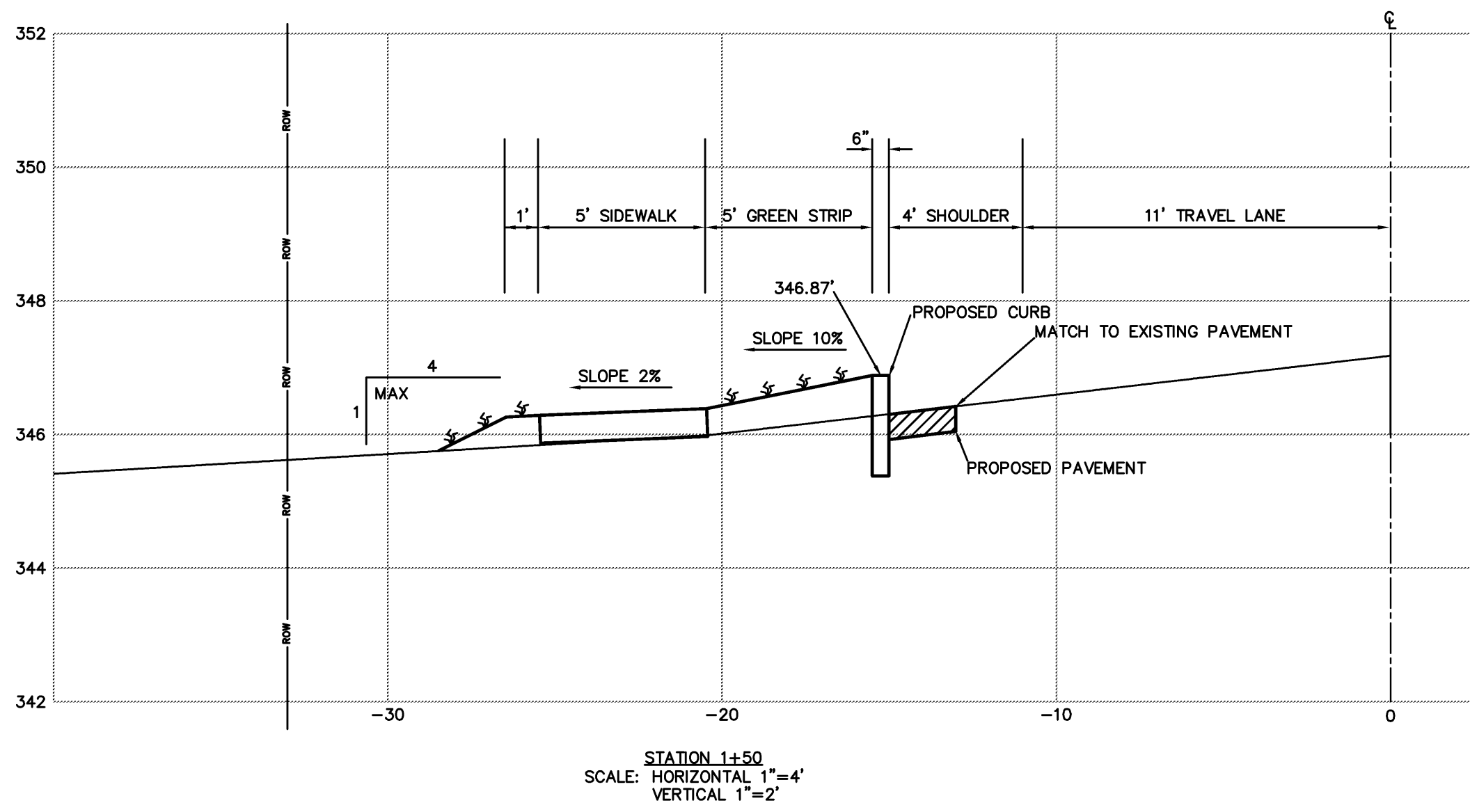
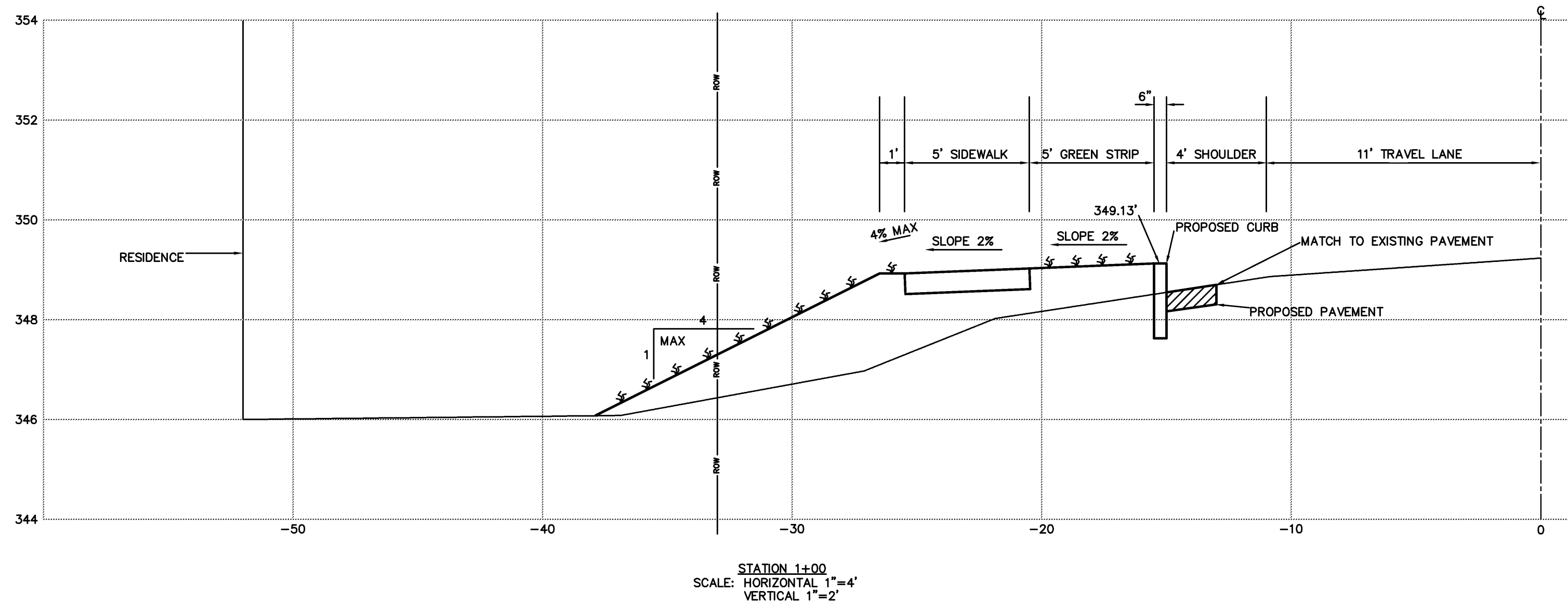
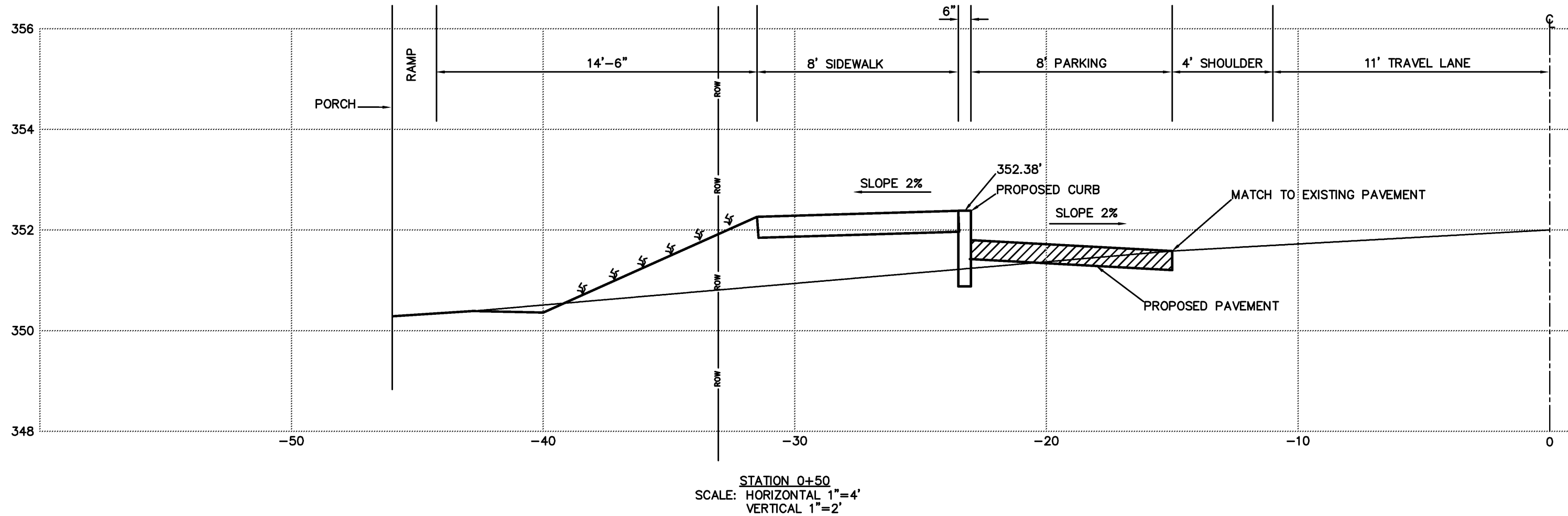
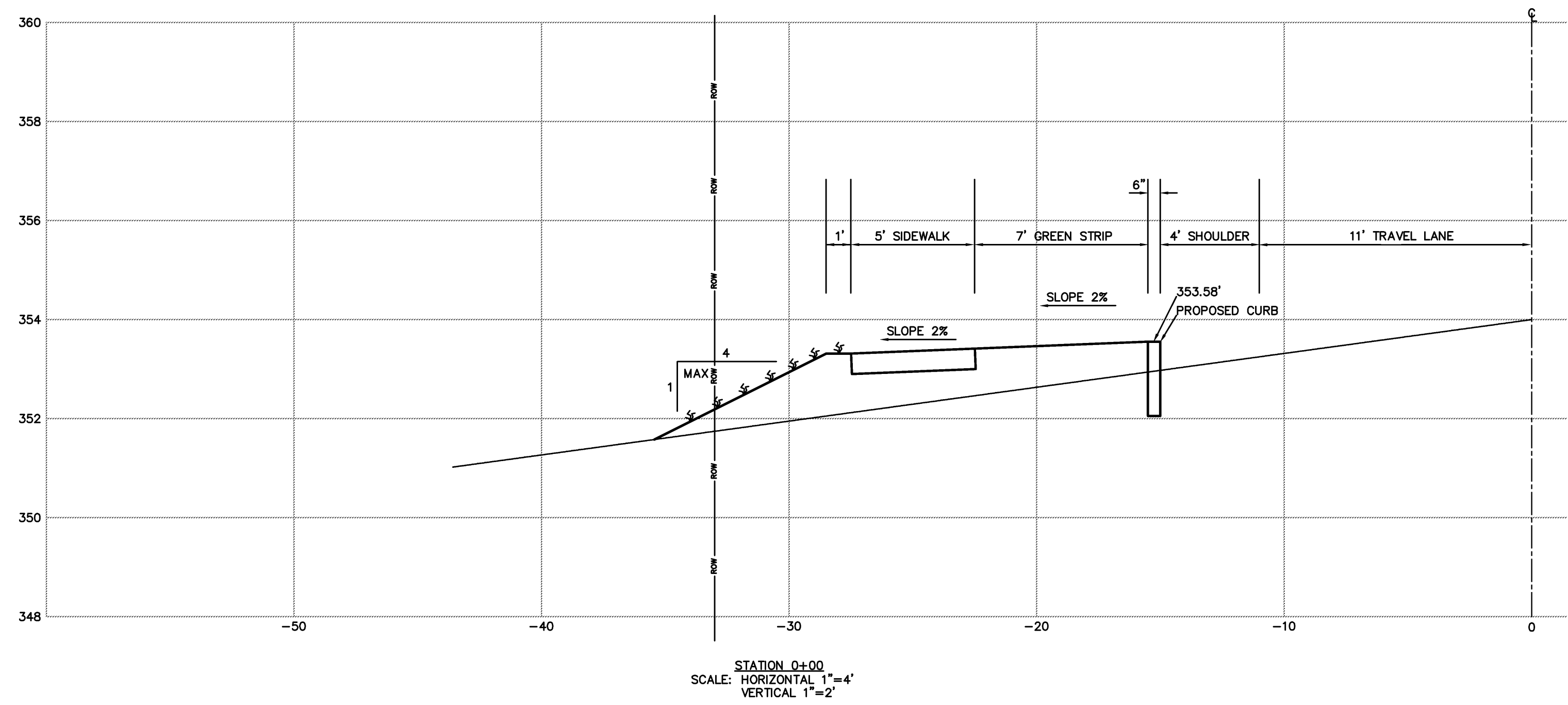
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TEL: 802-383-0486

HINESBURG STP EH05(22)
VILLAGE STREETSCAPE IMPROVEMENTS
ROUTE 116
HINESBURG, VERMONT

DRAWN	DM
CHECKED	ES
DATE	01/15/07
SCALE	AS NOTED
JOB NO.	20051114
SHEET	

D-1

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FINAL PLANS FOR CONSTRUCTION

REVISIONS	BY
1-include comments from Amy Bell	02-23-07 LMM
2-REMOVE THE PEDESTRIAN SIGNS	06-07-07 LMM
3-ALLOTTED SIDEWALK AROUND UTILITY POLES	07-18-07 LMM



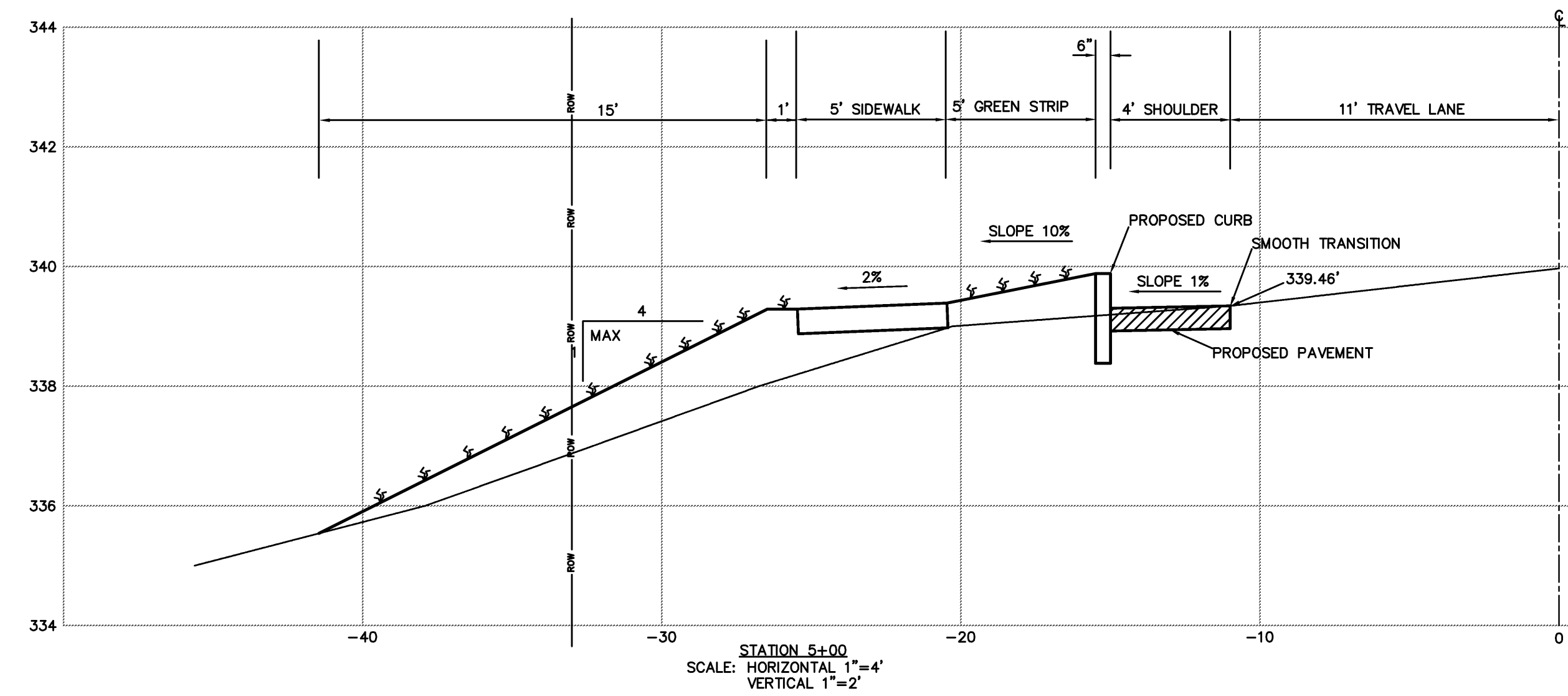
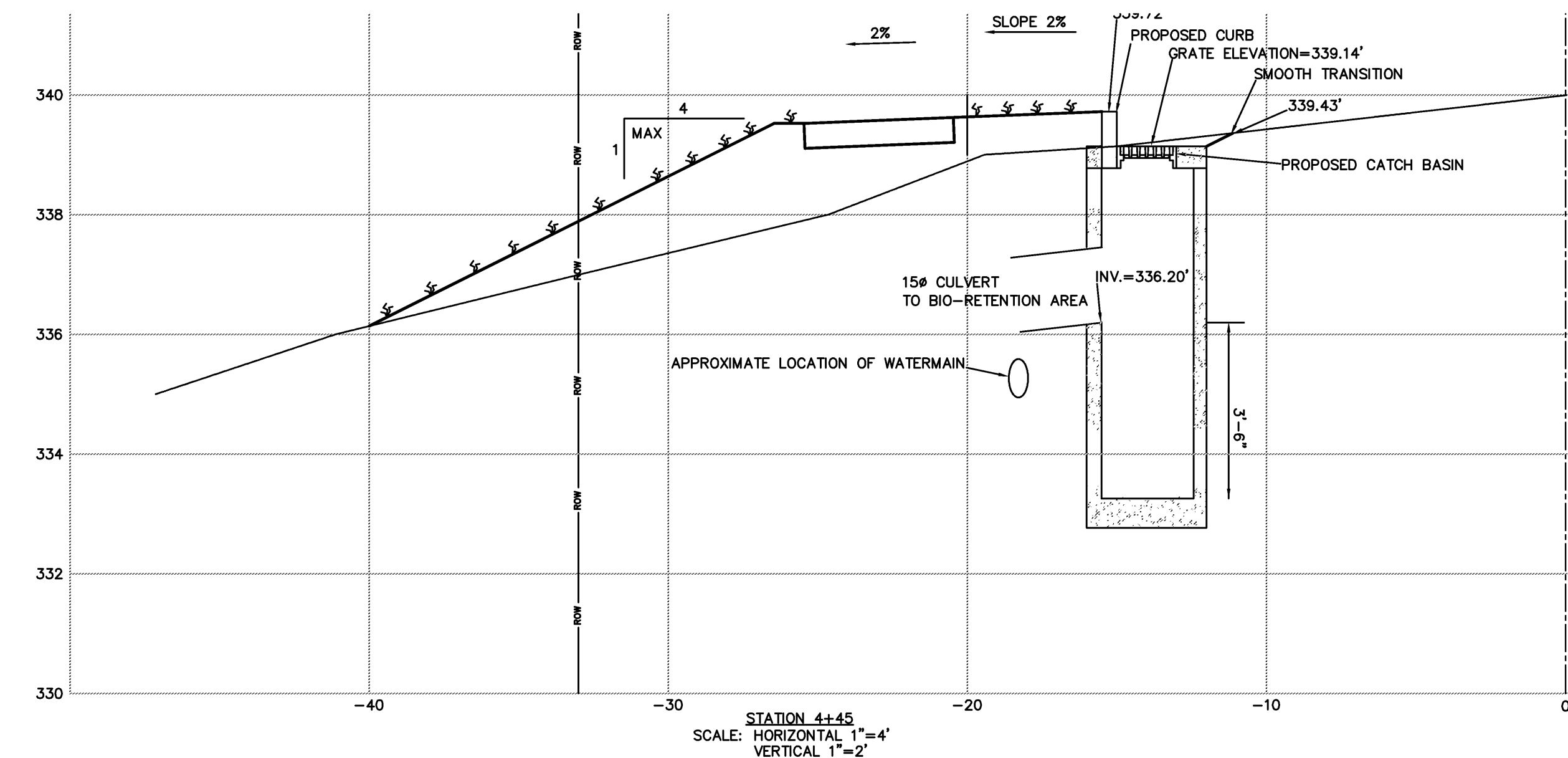
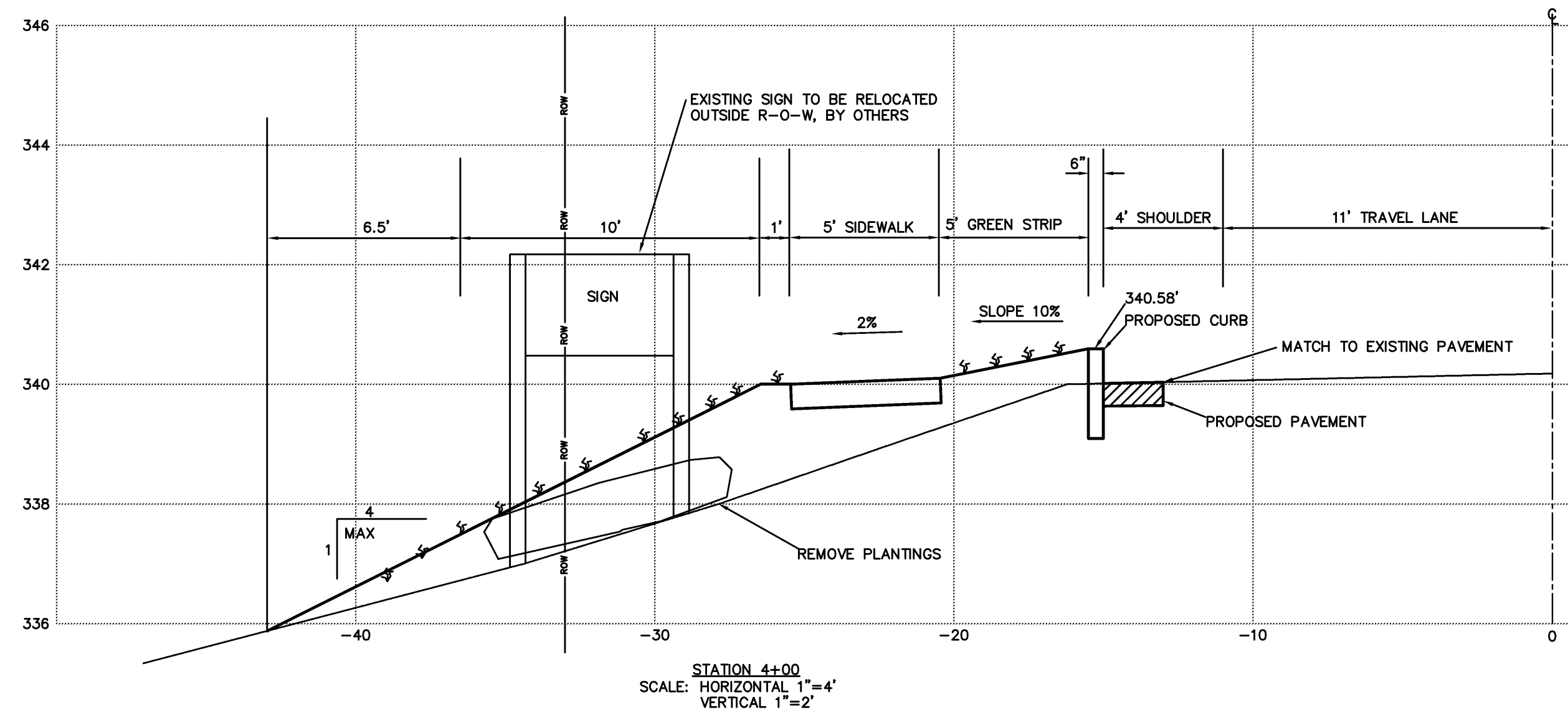
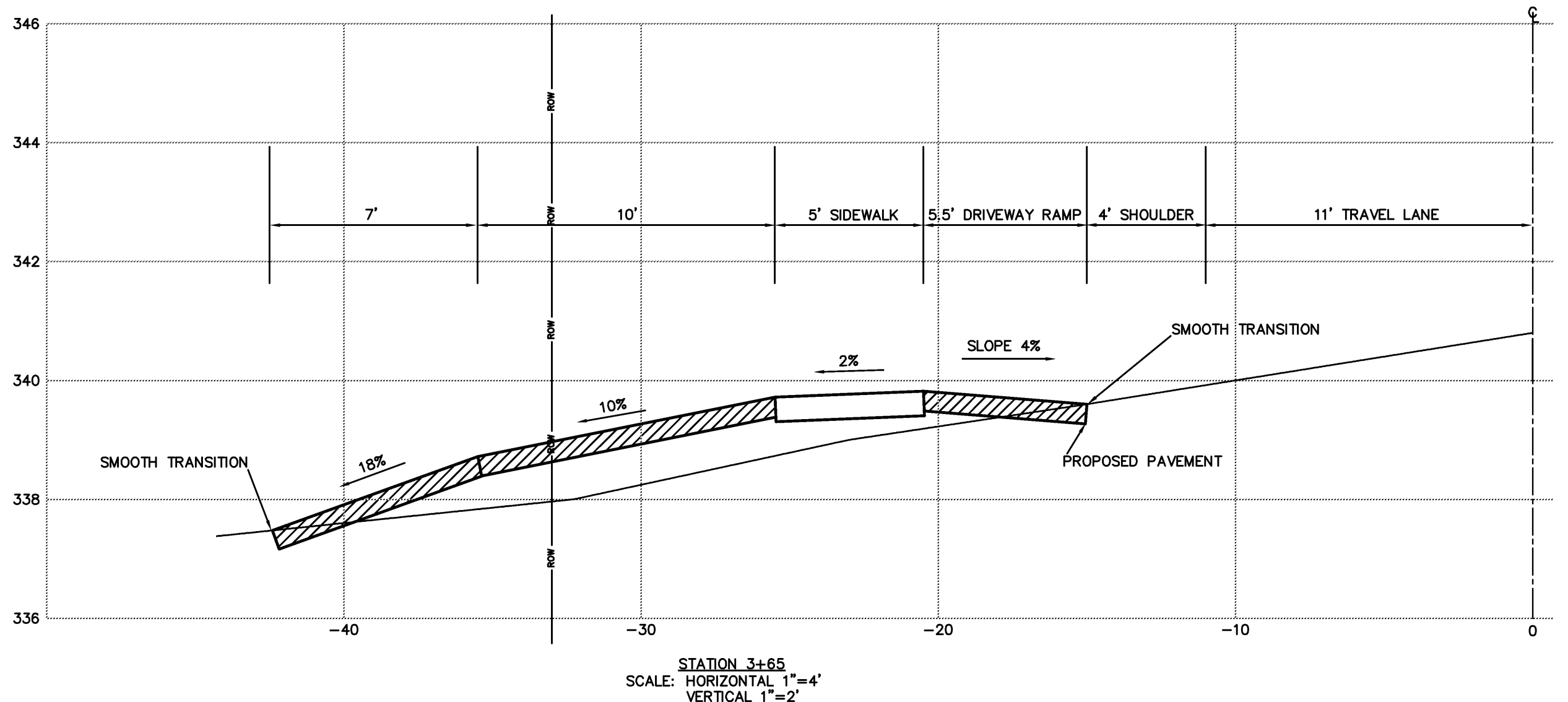
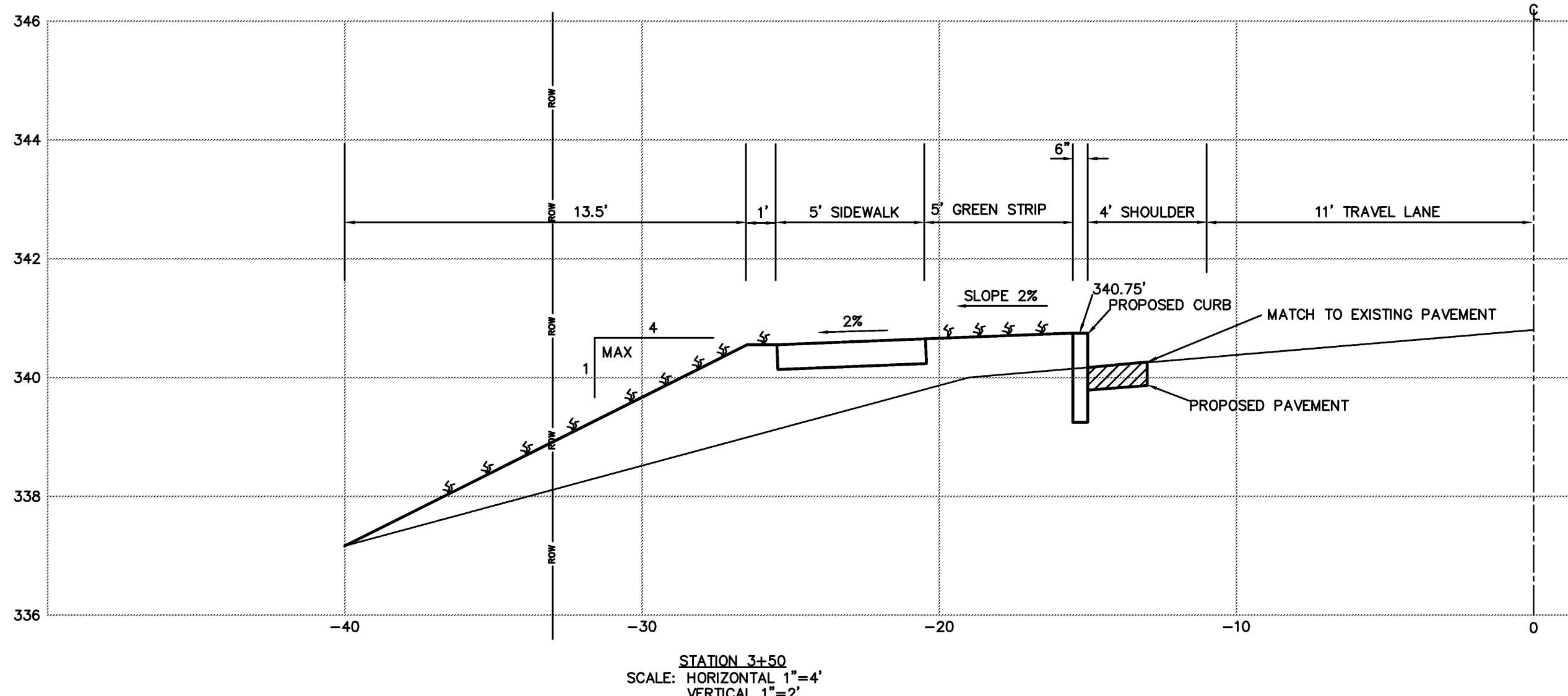
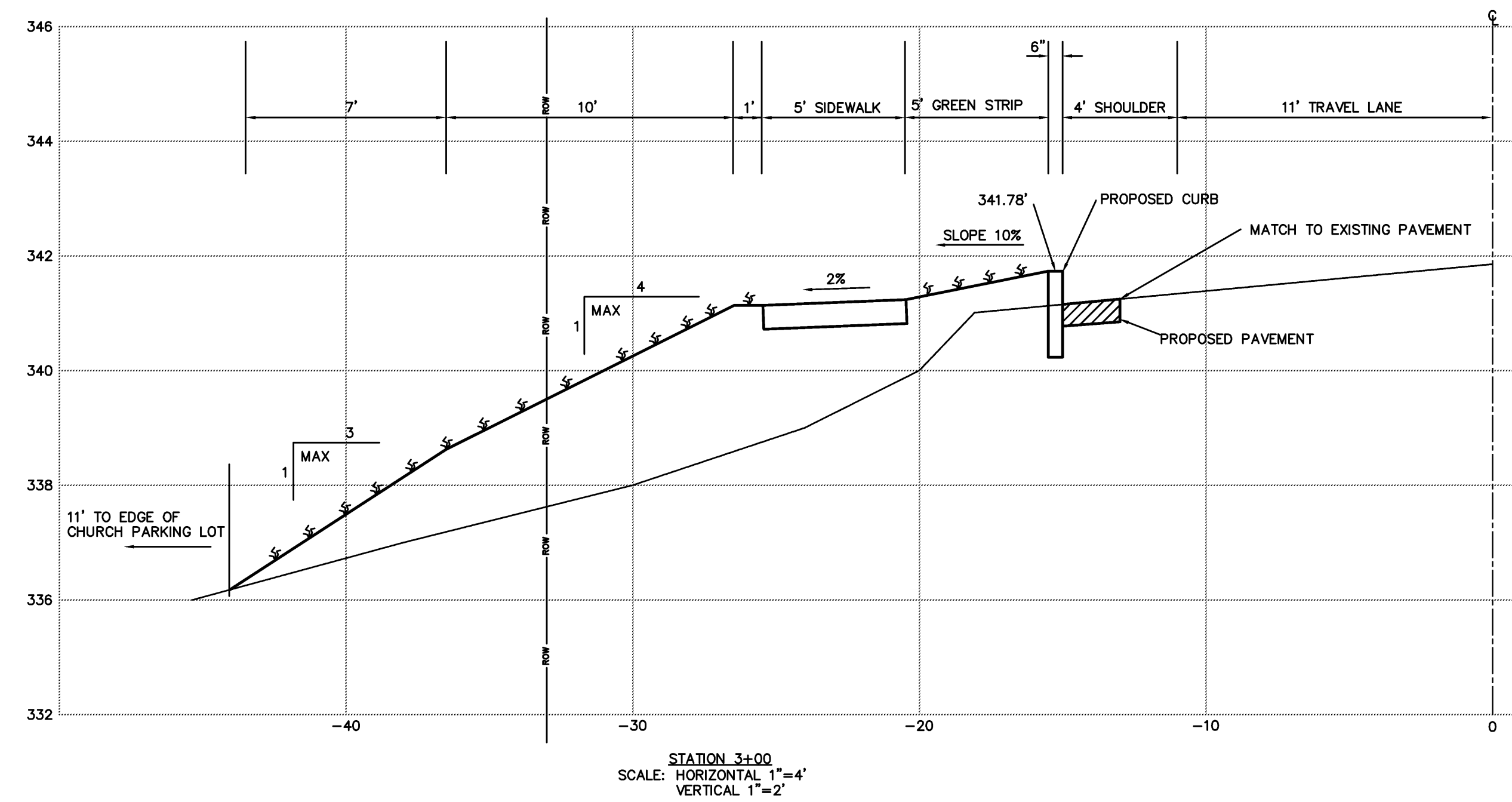
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HINESBURG STP EH05(22)
VILLAGE STREETScape IMPROVEMENTS
ROUTE 116
HINESBURG, VERMONT

DRAWN
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01/15/07
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AS NOTED
JOB NO.
20051114
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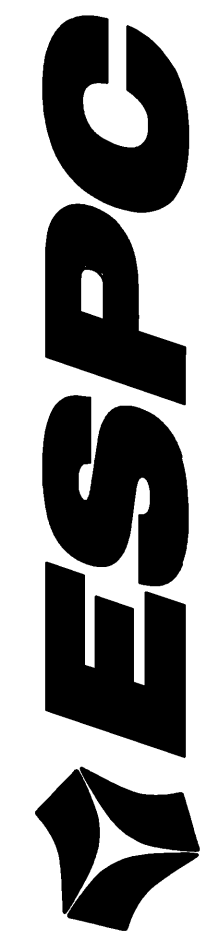


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FINAL PLANS FOR CONSTRUCTION

REVISIONS	BY
1-Include comments from Amy Ball	02-23-07 LMM
2-REMOVE THE PEDESTRIAN SIGN	05-07-07 LMM
3-RELOCATED SIDEWALK AROUND UTILITY POLES	07-18-07 LMM



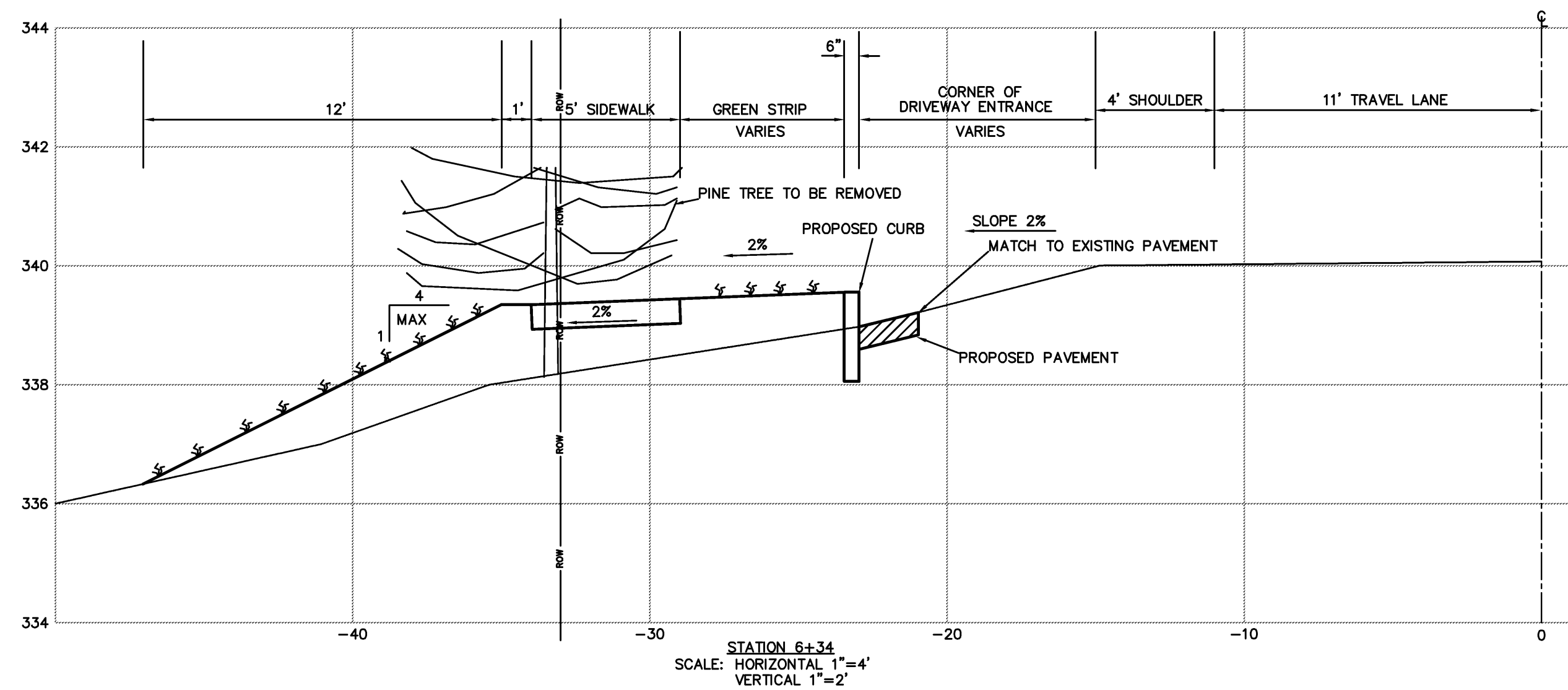
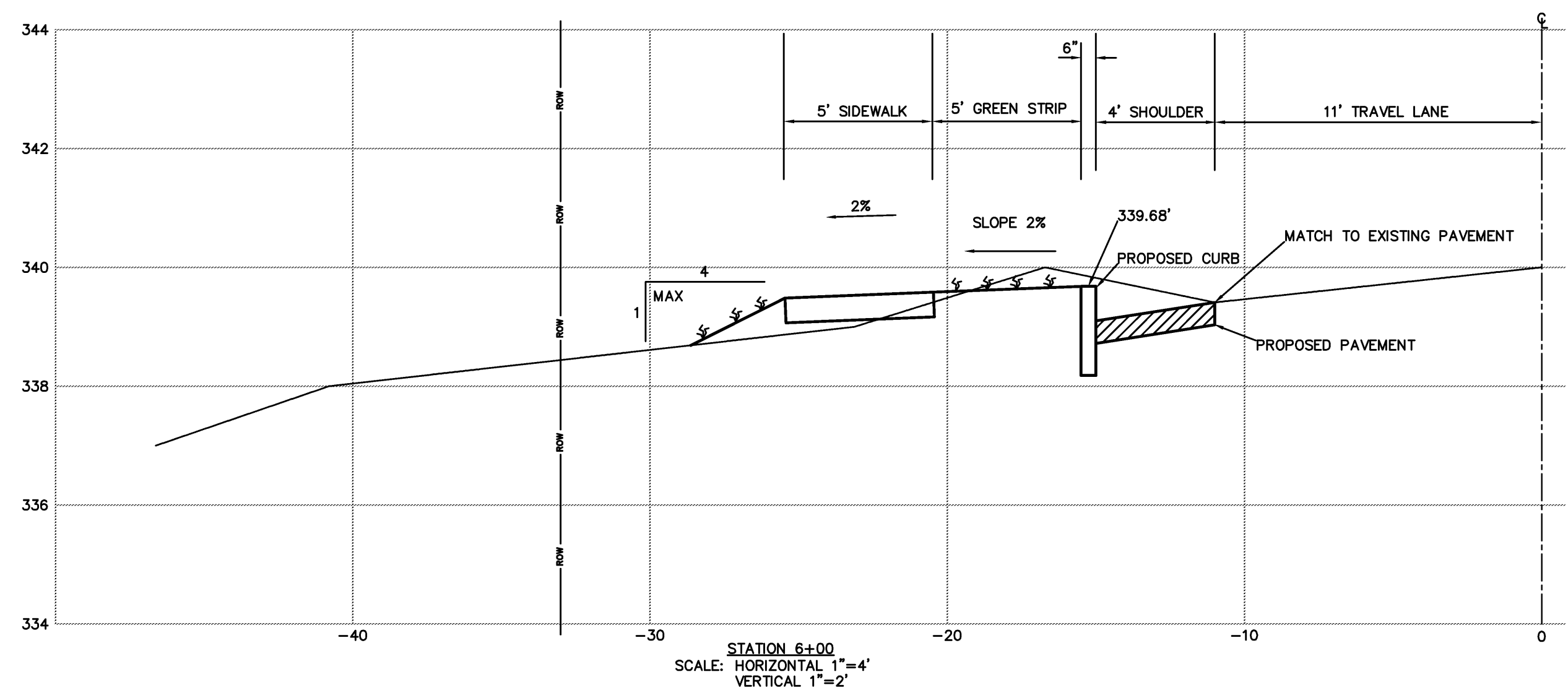
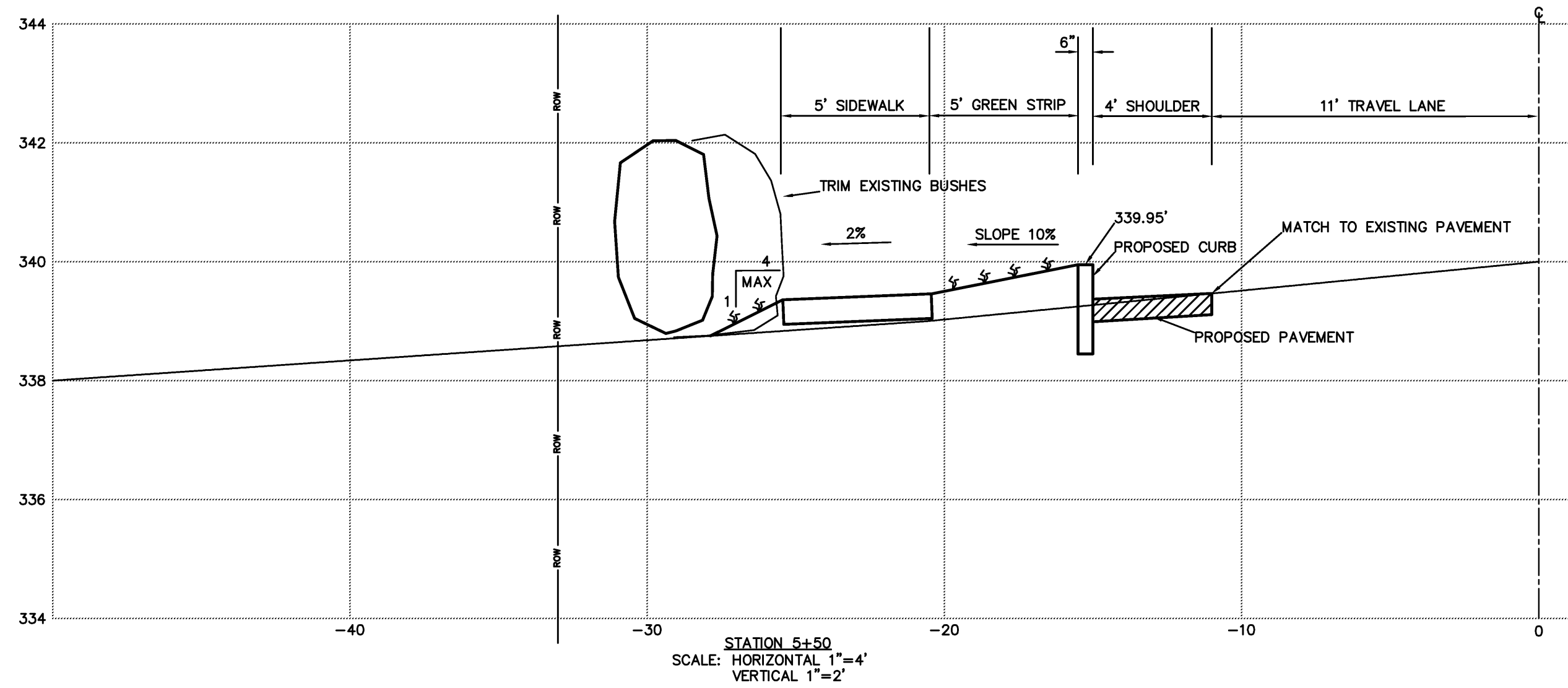
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FINAL PLANS FOR CONSTRUCTION

REVISIONS	BY
1. Include comments from Amy Bell	02-23-07 LMM
2. REMOVE THE PEDESTRIAN SIGN	05-07-07 LMM
3. RELOCATED SIDEWALK AROUND UTILITY POLES	07-18-07 LMM

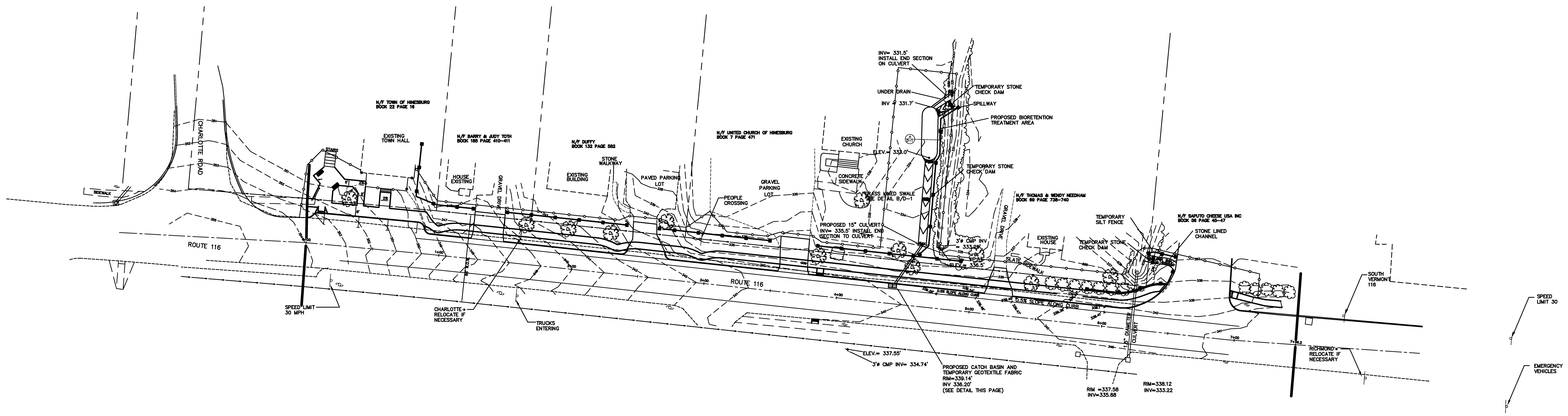


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ROUTE 116
HINESBURG, VERMONT

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EPSC NOTES

EROSION PREVENTION AND SEDIMENT CONTROL

1.1 PROJECT DESCRIPTION

THE MAIN GOAL OF THE PROJECT IS TO INSTALL SIDEWALK ALONG WEST SIDE ROUTE 116 FROM THE HINESBURG TOWN HALL TO THE SAPIUTO CHEESE FACTORY. BEGINNING JUST NORTH OF THE INTERSECTION OF CHARLOTTE ROAD AND ROUTE 116 PROCEEDING 700 FEET NORTH ALONG ROUTE 116 AND ENDING AT THE SAPIUTO CHEESE FACTORY. WORK TO BE PERFORMED UNDER THIS CONTRACT INCLUDES GRANITE CURBS, CONCRETE SIDEWALK, EROSION CONTROL MEASURES, LANDSCAPING, AND RELATED WORK. THE APPROXIMATE AREA OF DISTURBANCE IS 0.5 ACRES.

1.2 SITE INVENTORY

1.2.1 DRAINAGE CHARACTERISTICS

THE VILLAGE OF HINESBURG, ALONG ROUTE 116, DRAINS VIA STORM SEWERS INTO UNNAMED TRIBUTARIES OF THE LAPLATT RIVER. THE PROJECT WILL INCLUDE THE INSTALLATION OF A PROPOSED CATCH BASIN THAT WILL ALSO DIRECT STORM WATER INTO AN UNNAMED TRIBUTARY OF THE LAPLATT RIVER. A 450 S.F. BIORETENTION TREATMENT AREA IS PROPOSED TO TREAT STORMWATER RUNOFF FROM ROUTE 116 PRIOR TO ENTERING THE TRIBUTARY AND FLOWING APPROXIMATELY 1,200 FEET TO THE LAPLATT RIVER.

1.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER

DRAINAGE FLOWS TOWARDS EXISTING CATCH BASINS LOCATED ON THE EAST SIDE ON ROUTE 116. THESE CATCH BASINS EVENTUALLY DISCHARGE INTO THE LAPLATT RIVER.

1.2.3 TOPOGRAPHY, EXISTING ROADS, BUILDINGS, UTILITIES

OVERHEAD UTILITIES EXIST ALONG ROUTE 116 THE LENGTH OF THE PROJECT. SEVERAL UTILITY POLES WILL BE RELOCATED AS PART OF THIS PROJECT. ONE CATCH BASIN IS PROPOSED NORTH OF THE CHURCH. THE EXISTING CATCH BASINS WILL REMAIN IN USE. SEWER AND WATER ARE LOCATED ALONG ROUTE 116, THE FULL LENGTH OF THE PROJECT. ROUTE 116 SLOPES NORTH AT A GRADUAL 2.0%.

1.2.4 VEGETATION

THE MAIN DISTURBANCE ASSOCIATED WITH THIS PROJECT IS TO INSTALL CONCRETE SIDEWALK AND GRANITE CURBING ALONG THE WEST SIDE OF ROUTE 116. DISTURBED AREAS ARE TO BE REPLACED WITH GRASS, CONCRETE SIDE WALK OR BITUMINOUS ASPHALT. EXISTING TREES AND SHRUBS ARE TO BE PROTECTED WHEREVER FEASIBLE. AN EXTENSIVE LANDSCAPING PLAN IS PROPOSED FOR THE FRONT OF THE TOWN HALL.

1.2.5 SOILS

THE EXISTING SOILS IN THE PROJECT AREA ARE MUNSON-RYNHAM LOAM. THESE SOILS HAVE A KW VALUE OF AROUND 0.49.

1.2.6 SENSITIVE RESOURCE AREAS

THERE ARE NO KNOWN WETLANDS OR ARCHAEOLOGICALLY SENSITIVE AREAS WITHIN THE PROJECT BOUNDARIES.

1.2.7 PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES.

THERE ARE NO OPEN WATER BODIES WITHIN THE PROJECT LIMITS.

1.3 TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL

1.3.1 DESCRIPTION OF ALL TEMPORARY EROSION AND SEDIMENT CONTROL FEATURES

THE ONLY SEDIMENT CONTROL FEATURES THAT ARE APPLICABLE TO THIS PROJECT ARE THE INSTALLATION OF GEOTEXTILE FABRIC IN THE PROPOSED CATCH BASIN, SILT FENCE INSTALLATION AND TEMPORARY STONE CHECK DAMS. AN ON SITE COORDINATOR SHALL INSPECT AND REPORT AT LEAST ONCE A WEEK AND AFTER EVERY MAJOR RAIN EVENT THE EFFECTIVENESS AND INTEGRITY OF THE EROSION CONTROL DEVICES. THE ON SITE COORDINATOR MUST MAKE SURE THAT THESE DEVICES ARE MAINTAINED AT ALL TIMES.

1.3.2 DESIGN CALCULATIONS FOR TEMPORARY STRUCTURAL CONTROLS

NO CALCULATIONS ARE NECESSARY FOR THE USE OF THE FEATURES PROVIDED.

1.4 FINAL EROSION CONTROL MEASURES

1.4.1 PERMANENT EROSION CONTROL MEASURES

ALL AREAS DISTURBED BY THE CONSTRUCTION OF THIS PROJECT ARE TO BE VEGETATED WITH GRASS, CONCRETE SIDEWALK OR BITUMINOUS ASPHALT.

EROSION CONTROL NOTES

1) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PREPARE TEMPORARY EROSION CONTROL PLANS FOR EACH PHASE OF CONSTRUCTION AND SUBMIT TO THE TOWN FOR APPROVAL. AN ONSITE COORDINATOR SHALL BE APPOINTED PRIOR TO THE BEGINNING OF CONSTRUCTION.

2) EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE CONSTRUCTED PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES. THE DEVICES SHOULD NOT BE REMOVED UNTIL THE DISTURBED LAND AREAS ARE STABILIZED.

3) ALL DISTURBED AREA NOT OTHERWISE SPECIFIED WILL BE TOPSOILED, FERTILIZED, LIMED, SEEDED, AND MULCHED IN ACCORDANCE WITH THE MOST RECENT VERMONT AGENCY OF TRANSPORTATION SPECIFICATIONS SECTIONS 651.01 - 651.07. RESTORATION OF DISTURBED AREAS SHALL FOLLOW THE PROGRESS OF THE SIDEWALK.

4) STABILIZE ALL SLOPES AND CONTROL EXCESS SURFACE RUNOFF.

5) RETAIN AND PROTECT TREES, SHRUBS, AND OTHER NATURAL PLANTS WHEREVER POSSIBLE.

6) THE EROSION AND SEDIMENT CONTROL PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE VERMONT HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL (2003).

7) PARTICULAR CARE SHOULD BE TAKEN IN WORK ADJACENT TO OR IN THE RIVERS, PONDS, OR WETLANDS. THE CONTRACTOR SHALL MAINTAIN WATER QUALITY STANDARDS AND COORDINATE EROSION CONTROL PROCEDURES WITH THE ENGINEER AND APPROPRIATE AGENCIES.

8) AREAS THAT ARE TEMPORARILY DISTURBED SHALL BE CONSTRUCTED TO FINAL CONDITIONS (SEEDED, MULCH, PAVED) WITHIN ONE WEEK OF DISTURBANCE.

9) AREAS SHALL BE SEEDED/MULCHED WITHIN 48 HOURS OF BEING CONSTRUCTED TO FINAL GRADE.

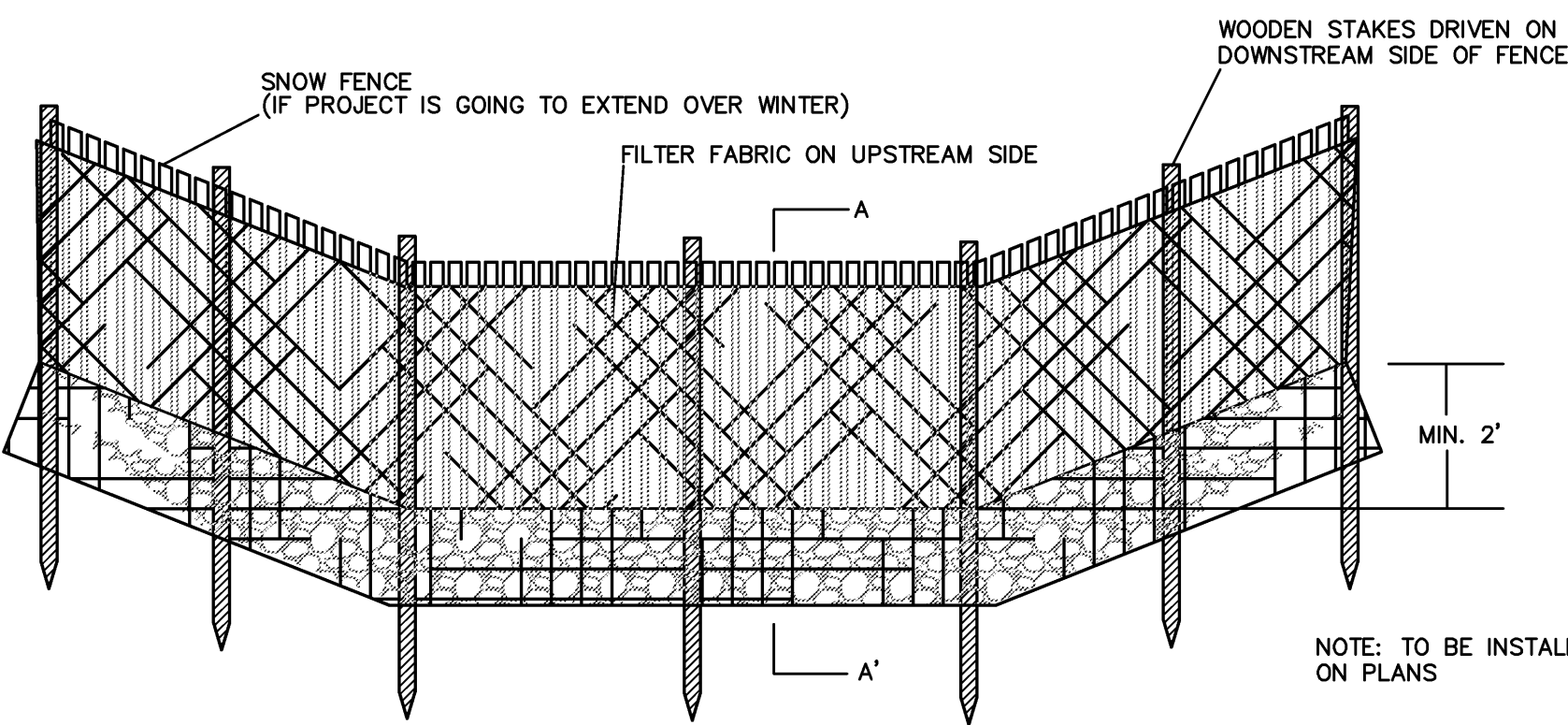
10) CONTRACTOR SHALL NOT TRACK SOIL OFFSITE.

RECORD DRAWINGS

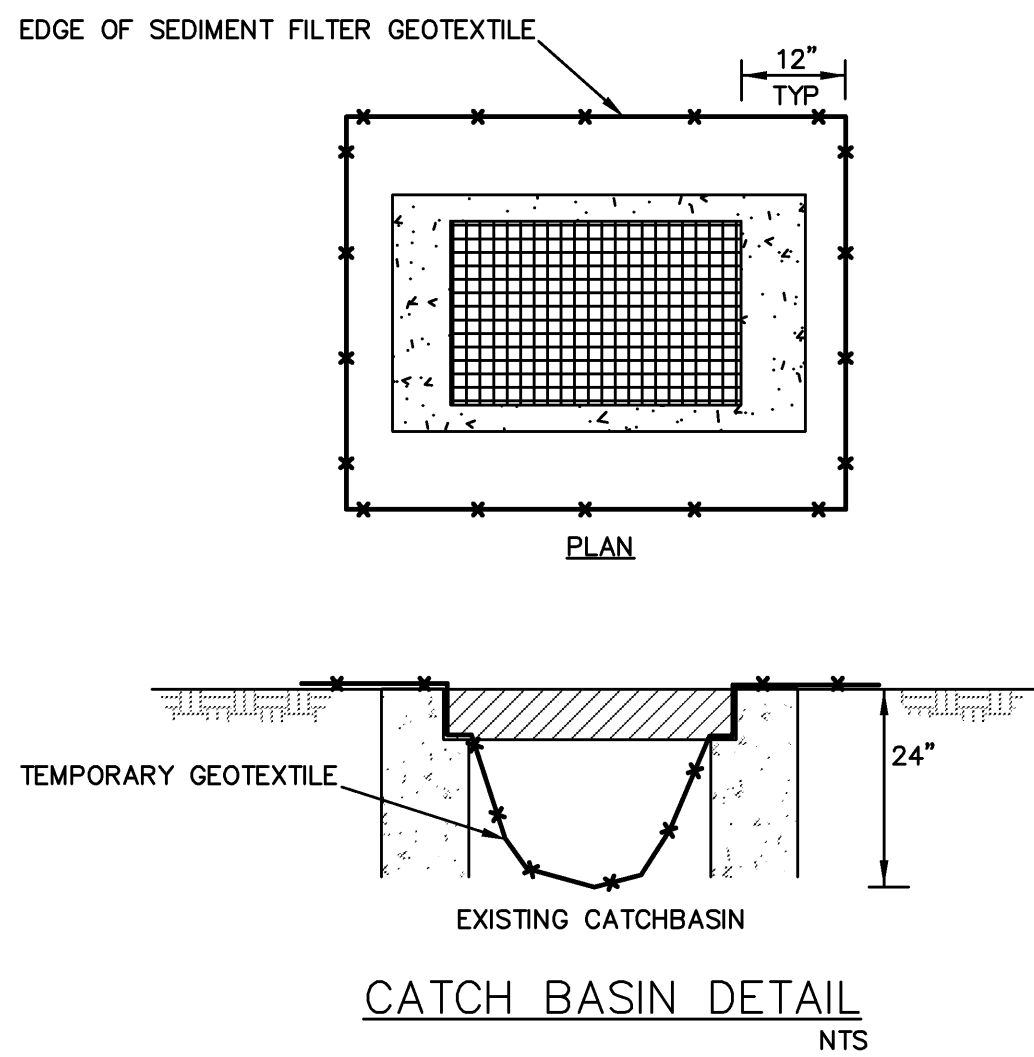
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LEGEND

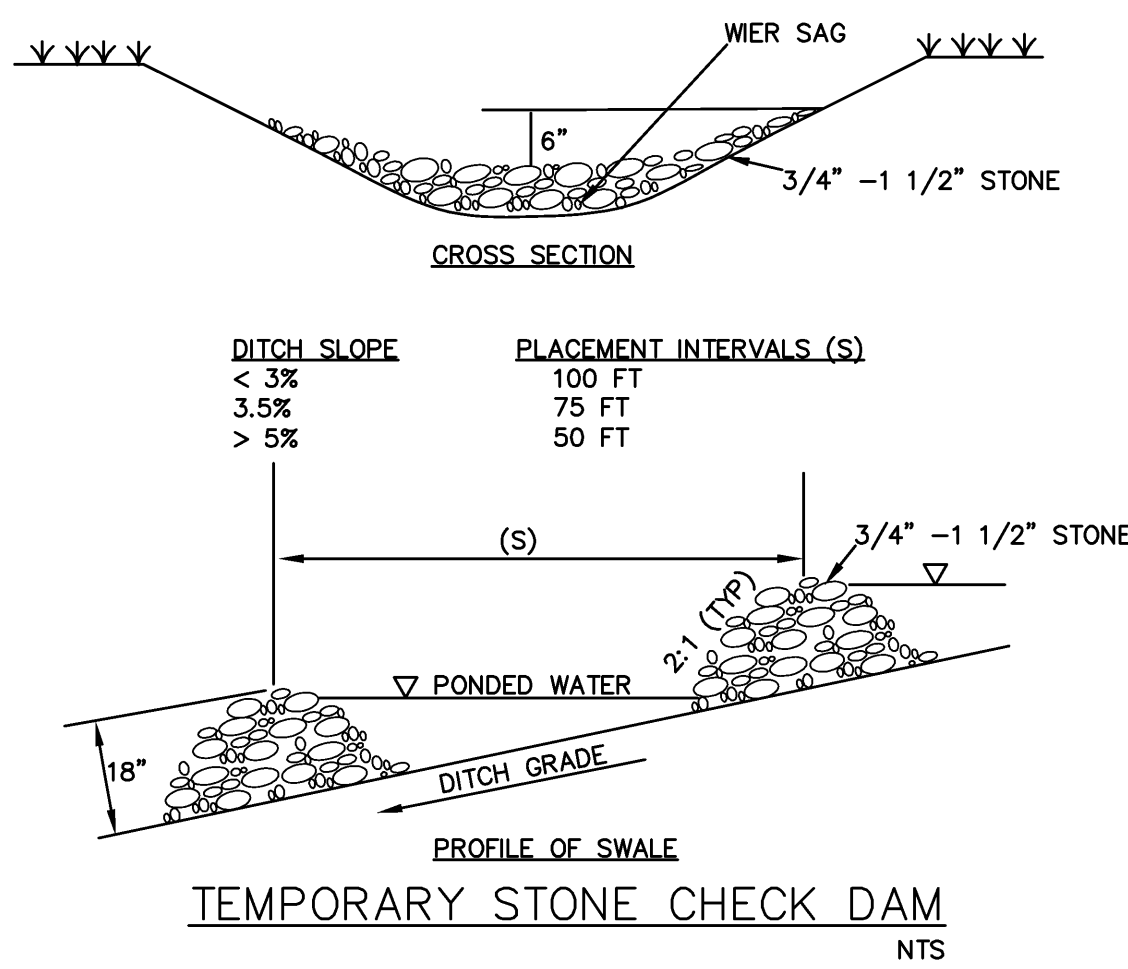
	EXISTING	PROPOSED
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BUILDING		
CATCH BASIN		
CENTERLINE		
CONTOUR		
CURB		
GRAVEL		
PAVEMENT		
PROPERTY LINE		
RIGHT OF WAY		
SIDEWALK		
TREE LINE		
CONSTRUCTION LIMIT		
SILT FENCE		



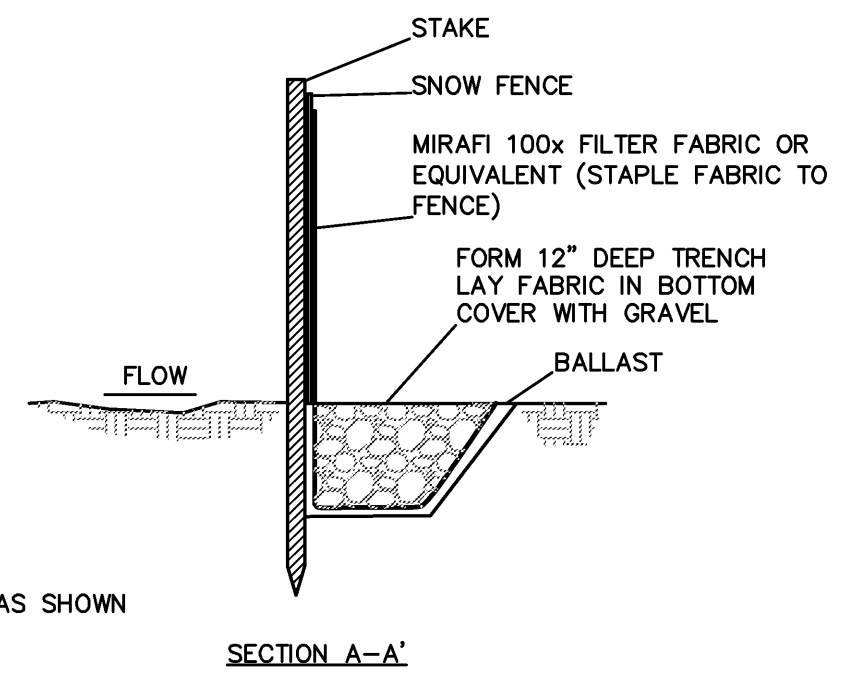
TYPICAL TEMPORARY SILT FENCE EROSION BARRIER



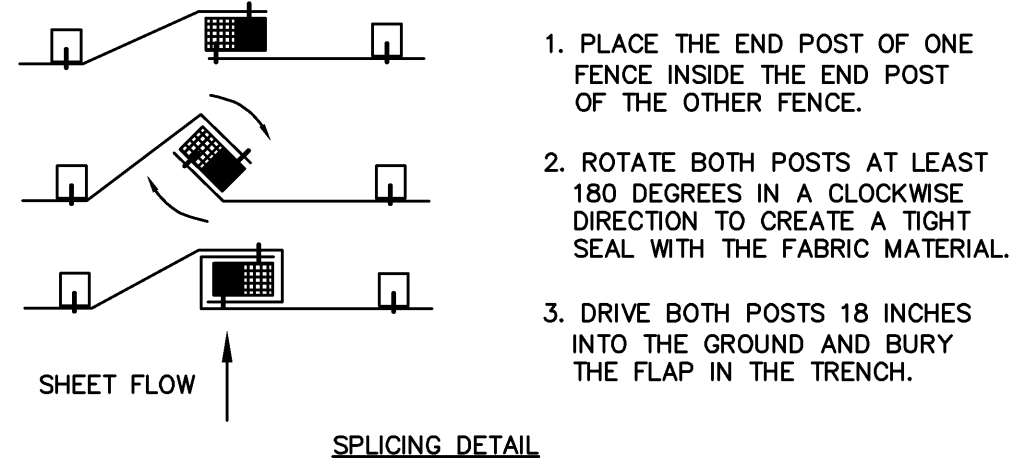
CATCH BASIN DETAIL



TEMPORARY STONE CHECK DAM



SECTION A-A'



SPlicing DETAIL

1. PLACE THE END POST OF ONE FENCE INSIDE THE END POST OF THE OTHER FENCE.
2. ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL.
3. DRIVE BOTH POSTS 18 INCHES INTO THE GROUND AND BURY THE FLAP IN THE TRENCH.

REVISIONS	BY
1. ADDED TRAFFIC CONTROL & SIGNAGE	MM-01-16-07

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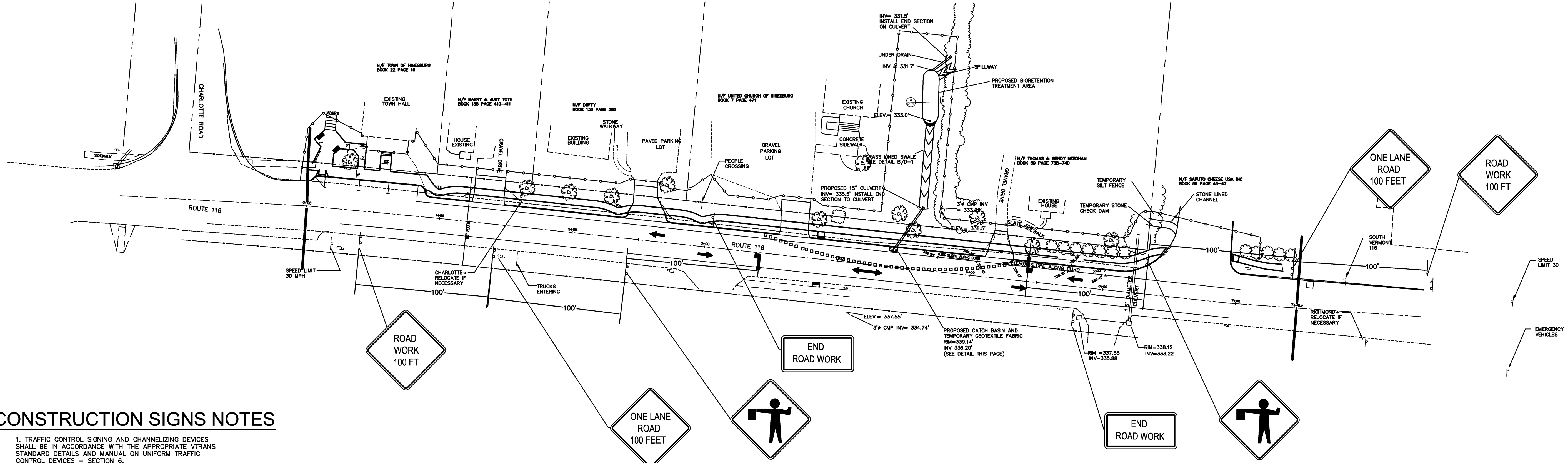
HINESBURG STP EH05(22)
VILLAGE STREETSCAPE IMPROVEMENTS
ROUTE 116
HINESBURG, VERMONT

DRAWN	LM
CHECKED	ES
DATE	05/01/06
SCALE	1"=30'
JOB NO.	200051114
SHEET	

EP-1

EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLANS
FINAL PLANS FOR CONSTRUCTION

LANE CLOSURE FOR CATCH BASIN INSTALLATION

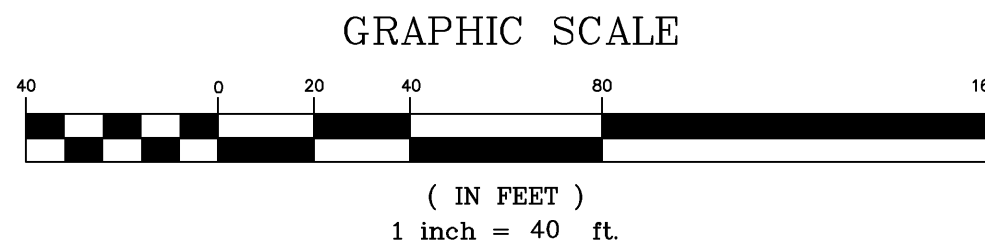


CONSTRUCTION SIGNS NOTES

1. TRAFFIC CONTROL SIGNING AND CHANNELIZING DEVICES SHALL BE IN ACCORDANCE WITH THE APPROPRIATE VIRGINS STANDARD DETAILS AND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES - SECTION 6.
2. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL PREPARE TRAFFIC CONTROL PLANS FOR EACH PHASE OF CONSTRUCTION AND SUBMIT TO THE TOWN FOR APPROVAL.
3. APPROACH CONSTRUCTION SIGNING SHALL REMAIN IN PLACE DURING THE ENTIRE CONSTRUCTION PERIOD. ALL SIGNING SHALL BE REMOVED OR COVERED WHEN NOT APPLICABLE.
4. TO FACILITATE THE FLOW OF TRAFFIC, THE TOWN SHALL HAVE THE AUTHORITY TO MODIFY THE CONTRACTORS ONGOING OPERATIONS OR PROPOSED METHODS OF CONSTRUCTION IN AND/OR NEAR THE CONSTRUCTION LIMITS AS IS DEEMED NECESSARY FOR THE SAFETY, CONVENIENCE AND WELFARE OF THE TRAVELING PUBLIC. THE CONTRACTOR SHALL COMPLY WITH THE TOWN DIRECTIVES CONCERNING THIS MATTER.
5. NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE AND CORNER SIGHT DISTANCE FROM DRIVES AND TOWN HIGHWAYS.
6. CONSTRUCTION CONES SHALL BE PLACED IN SUCH A POSITION TO ALLOW ACCESS/EXIT TO ALL EXISTING DRIVEWAYS.

LEGEND

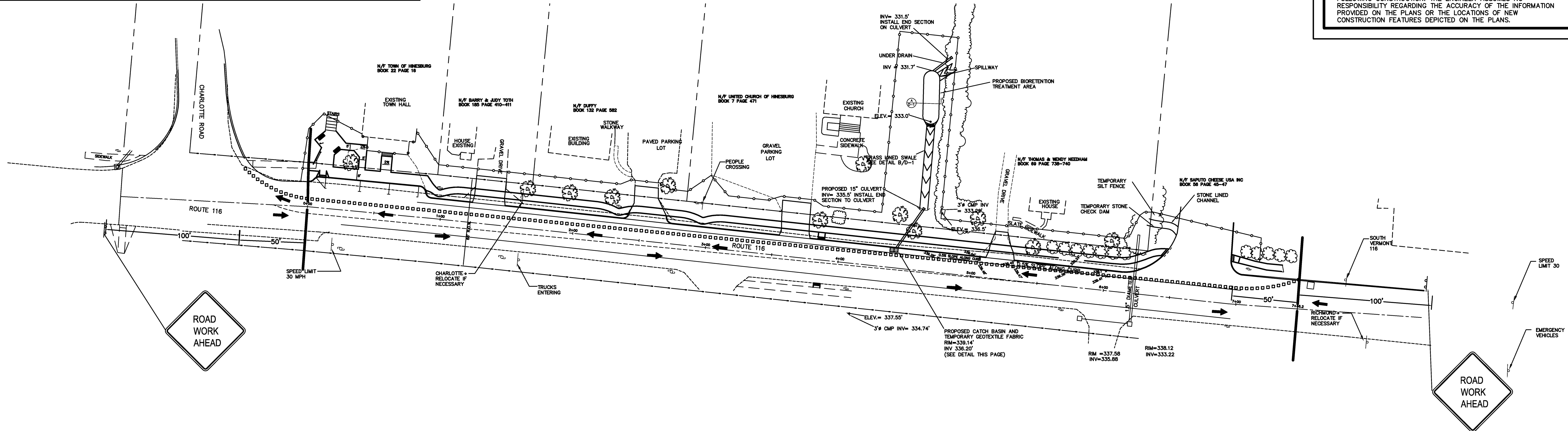
	EXISTING	PROPOSED
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CATCH BASIN		
CENTERLINE		
CONTOUR		
CURB		
GRAVEL		
PAVEMENT		
PROPERTY LINE		
RIGHT OF WAY		
SEWER		
TREE LINE		
CONSTRUCTION LIMIT		
SLT FENCE		
FLAGGER		
CHANNELIZING DEVICE		



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SHOULDER WORK WITH MINOR ENCROACHMENT



TEMPORARY CONSTRUCTION SIGNAGE & TRAFFIC CONTROL
FINAL PLANS FOR CONSTRUCTION

REVISIONS	BY
1. ADDS TRAFFIC CONTROL & SIGNAGE	LMH - 01-16-07
2. REMOVED PEDESTRIAN CROSSING SIGNS	LMH - 05-07-07
3. RELOCATED SIDEWALK AROUND UTILITY POLES	DT - 10-07-07



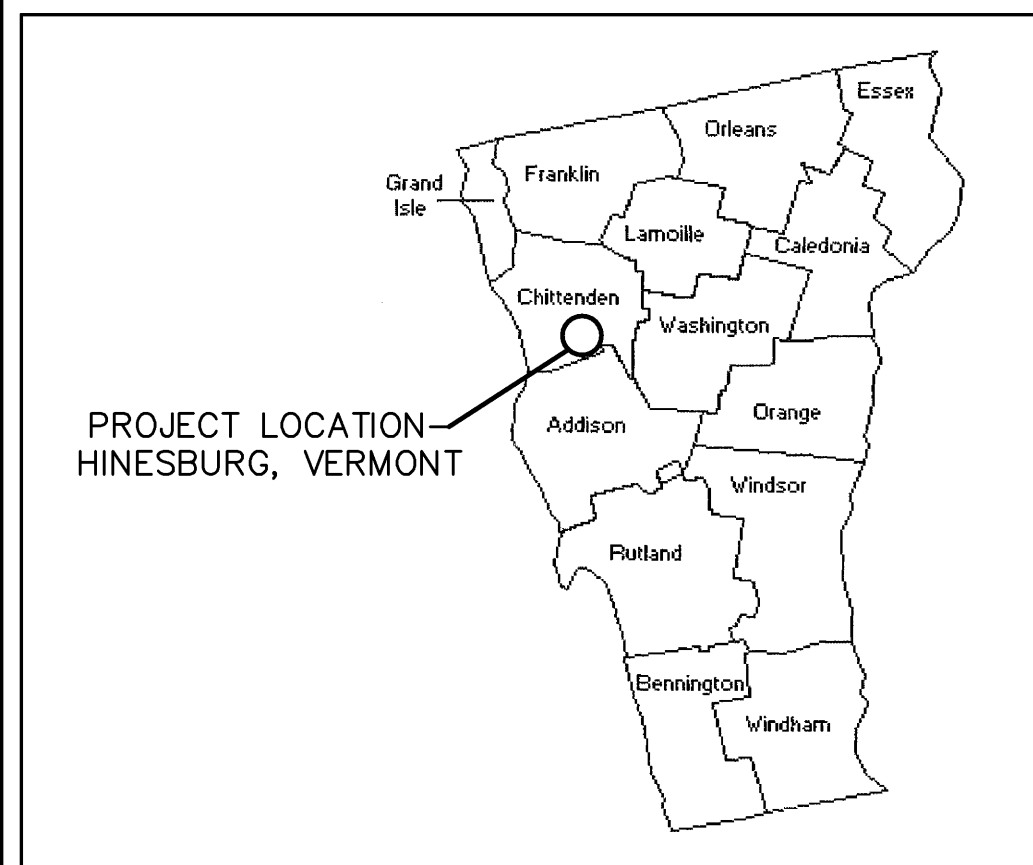
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HINESBURG STP EH05(22)
VILLAGE STREETSCAPE IMPROVEMENTS

ROUTE 116
HINESBURG, VERMONT

DRAWN	LM
CHECKED	ES
DATE	05/01/06
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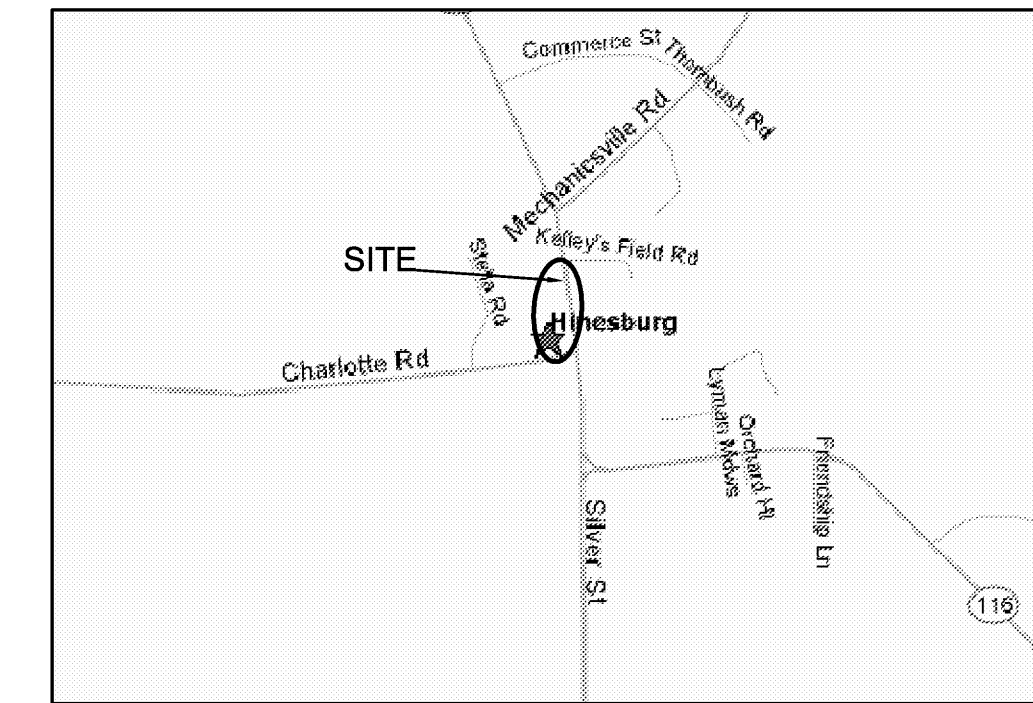
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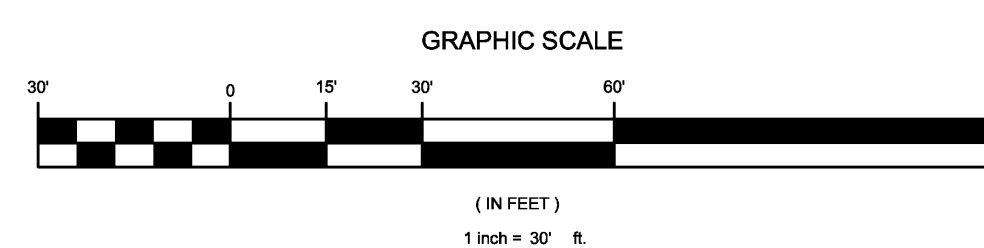
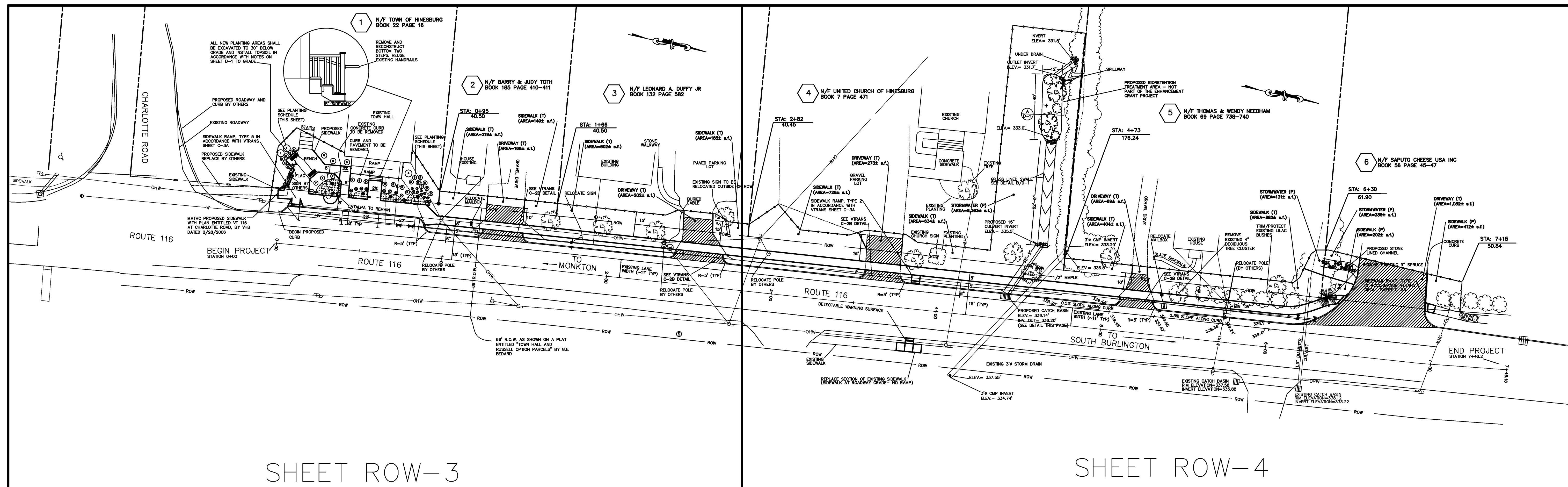
HINESBURG STP EH05(22)

VILLAGE STREETScape IMPROVEMENTS ROUTE 116, HINESBURG, VERMONT DECEMBER, 2006

BEGINNING AT THE NORTH END OF THE INTERSECTION OF CHARLOTTE ROAD AND ROUTE 116 AND PROGRESSING 746 FEET NORTH ALONG ROUTE 116. WORK TO BE PERFORMED UNDER THIS CONTRACT INCLUDES CONCRETE CURB, CONCRETE SIDEWALK, DRAINAGE, LANDSCAPING, A STORMWATER TREATMENT SYSTEM AND RELATED WORK.



SITE LOCATION MAP
NTS



RECORD DRAWINGS

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ENGINEERING AND ENVIRONMENTAL SERVICES
P.O. BOX 212, WILLISTON, VT, 05495
WWW.ESPC-CONSULTING.COM
(802) 383 - 0486

TOPOGRAPHIC SURVEY
FOR
ROUTE 116
HINESBURG, VERMONT
PREPARED BY BUTTON PROFESSIONAL LAND SURVEYORS
11/11/05

FUNDING ASSISTANCE FOR THIS PROJECT IS
BEING FURNISHED BY VTTRANS

TOWN OF HINESBURG	VERTICAL DATUM
APPROVED _____ DATE _____	NAVD 1988
	HORIZONTAL NAD 1983

RIGHT-OF-WAY PLANS
THIS SHEET FOR ROW
USE ONLY

ROW SHEET INDEX:
ROW-1 COVER PAGE
ROW-2 SUMMARY SHEET
ROW-3 ROW LAYOUT SHEET 1
ROW-4 ROW LAYOUT SHEET 2

HINESBURG STP EH 05(22)

VILLAGE STREETSCAPE IMPROVEMENTS
ROUTE 116, HINESBURG, VERMONT
DECEMBER, 2006

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING (IN SF.)	RIGHTS		REMARKS
2	BARRY & JUDY TOTH	ROW-3	0+95 LT	1+24 LT	219	SIDEWALK (T) CONSTRUCTION		7.5'± WIDE EASMENT TO INSTALL SIDEWALK
		ROW-3	1+24 LT	1+47 LT	169	DRIVE (T) GRAVEL MAINTENANCE		7.5'± WIDE EASEMENT TO RECONSTRUCT DRIVEWAY
		ROW-3	1+47 LT	1+66 LT	149	SIDEWALK (T) CONSTRUCTION		7.5'± WIDE EASMENT TO INSTALL SIDEWALK
3	LEONARD A. DUFFY JR	ROW-3&4	1+66 LT	2+43 LT	602	SIDEWALK (T) CONSTRUCTION		7'-11.3'± WIDE EASEMENT TO INSTALL SIDEWALK
		ROW-3&4	2+42 LT	2+60 LT	202	DRIVE (T) ASPHALT MAINTENANCE		11.3'± WIDE EASEMENT TO RECONSTRUCT DRIVEWAY
		ROW-3&4	2+60 LT	2+82 LT	185	SIDEWALK (T) CONSTRUCTION		7'-11.3'± WIDE EASEMENT TO INSTALL SIDEWALK
4	UNITED CHURCH OF HINESBURG	ROW-4	2+82 LT	3+51 LT	728	SIDEWALK (T) CONSTRUCTION		7.3'-21.2'± WIDE EASMENT TO INSTALL SIDEWALK
		ROW-4	3+51 LT	3+75 LT	273	DRIVE (T) GRAVEL MAINTENANCE		9.2'-11.3'± WIDE EASEMENT TO RECONSTRUCT DRIVEWAY
		ROW-4	3+75 LT	4+73 LT	637	SIDEWALK (T) CONSTRUCTION		7.3'± WIDE EASMENT TO INSTALL SIDEWALK
		ROW-4	4+29 LT	4+73 LT	6,363	STORMWATER TREATMENT SYSTEM (P) MAINTENANCE		143.2'± WIDE EASMENT TO INSTALL AND MAINTAIN STORMWATER DEVICES
5	THOMAS & WENDY NEEDHAM	ROW-4	4+73 LT	5+15 LT	404	SIDEWALK (T) CONSTRUCTION		7.3'± WIDE EASMENT TO INSTALL SIDEWALK
		ROW-4	5+15 LT	5+24 LT	69	DRIVE (T) GRAVEL MAINTENANCE		7.3'± WIDE EASEMENT TO RECONSTRUCT DRIVEWAY
		ROW-4	5+24 LT	6+30 LT	882	SIDEWALK (T) CONSTRUCTION		7.3'-28.9'± WIDE EASMENT TO INSTALL SIDEWALK
		ROW-4	6+18 LT	6+30 LT	131	STORMWATER TREATMENT SYSTEM (P) MAINTENANCE		13.8'-28.9'± WIDE EASMENT TO INSTALL AND MAINTAIN STORMWATER DEVICES
6	SAPUTO CHEESE USA INC	ROW-4	6+30 LT	6+50 LT	202	SIDEWALK (P) CONSTRUCTION		26.6'-28.9'± WIDE EASMENT TO INSTALL AND MAINTAIN SIDEWALK
		ROW-4	6+30 LT	6+50 LT	336	STORMWATER TREATMENT SYSTEM (P) MAINTENANCE		13.8'-28.9'± WIDE EASMENT TO INSTALL AND MAINTAIN STORMWATER DEVICES
		ROW-4	6+50 LT	6+93 LT	1,052	DRIVE (T) ASPHALT MAINTENANCE		21.3'-26.6'± WIDE EASEMENT TO RECONSTRUCT DRIVEWAY
		ROW-4	6+93 LT	7+15 LT	412	SIDEWALK (P) CONSTRUCTION		10.1'-28.9'± WIDE EASMENT TO INSTALL AND MAINTAIN SIDEWALK

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NOT FOR CONSTRUCTION

REVISIONS	BY
ADDED PERMANENT EASEMENTS TO PARCELS 2, 3 & 6. REMOVED TEMPORARY EASEMENT FROM PARCEL 4. 03-21-07	LMM



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HINESBURG STP EH 05(22)
VILLAGE STREETSCAPE IMPROVEMENTS

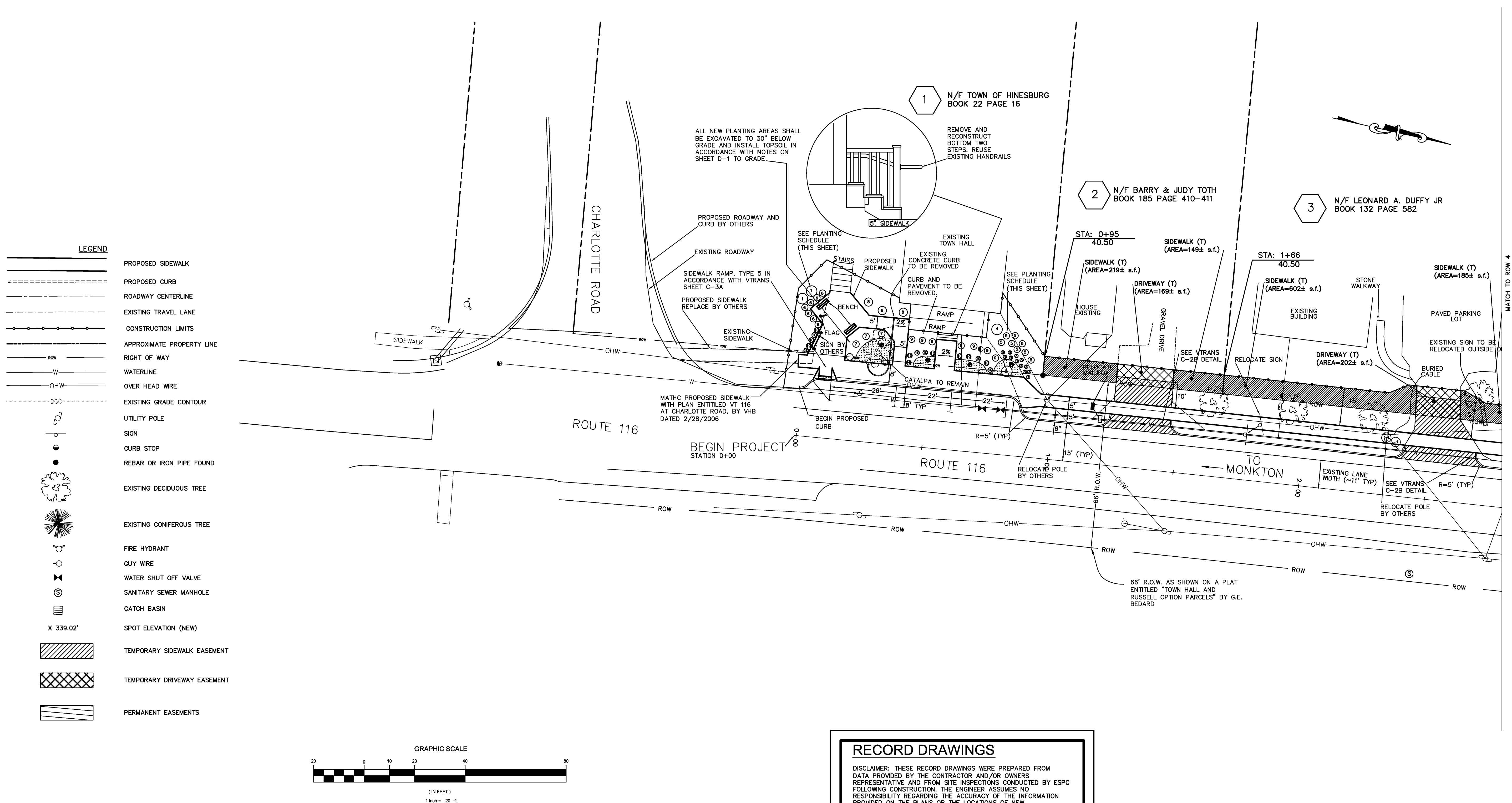
ROUTE 116
HINESBURG, VERMONT

DRAWN
LMM
CHECKED
ES
DATE
12/21/06
SCALE
N/A
JOB NO.
20051114
SHEET

ROW-2

HINESBURG STP EH 05(22)

VILLAGE STREETSCAPE IMPROVEMENTS
ROUTE 116, HINESBURG, VERMONT
DECEMBER, 2006



REVISIONS	BY
ADDED PERMANENT EASEMENTS TO PARCELS 5 & 6. REMOVED TEMPORARY EASEMENT FROM PARCELS 1, 10 & 20.	LMM

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VILLAGE STREETSCAPE IMPROVEMENTS
ROUTE 116
HINESBURG, VERMONT

DRAWN LMM
CHECKED ES
DATE 12/21/06
SCALE 1"=20'
JOB NO. 20051114
SHEET

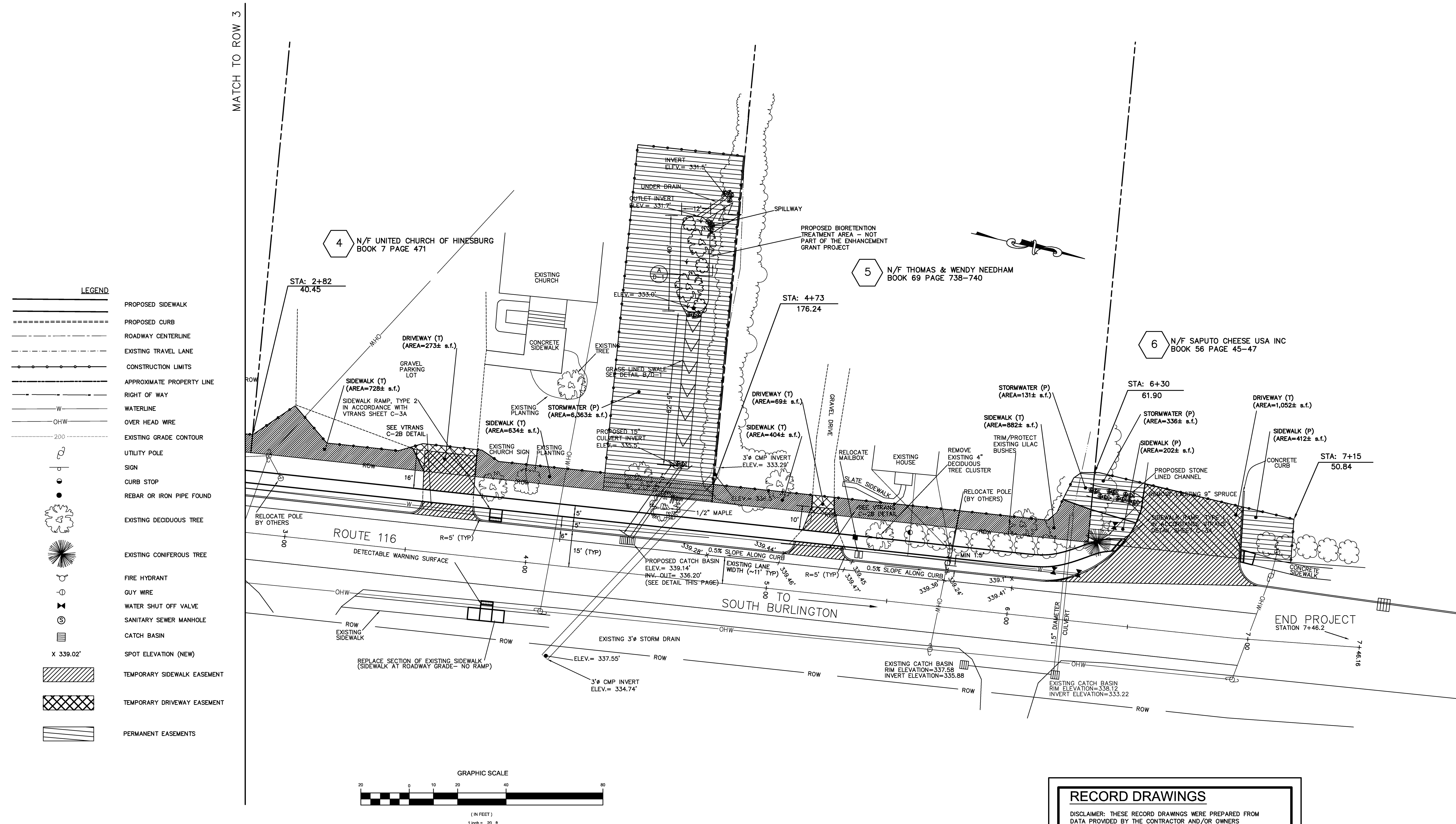
ROW-3

RIGHT-OF-WAY PLANS

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ROUTE 116
HINESBURG, VERMONT

DRAWN	LMM
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ROW-4

RIGHT-OF-WAY PLANS