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STRUCTURES DETAILS

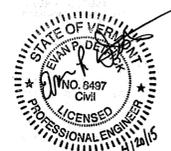
SD-501.00 02/09/2012

QUALITY ASSURANCE PROGRAM: **LEVEL 2**

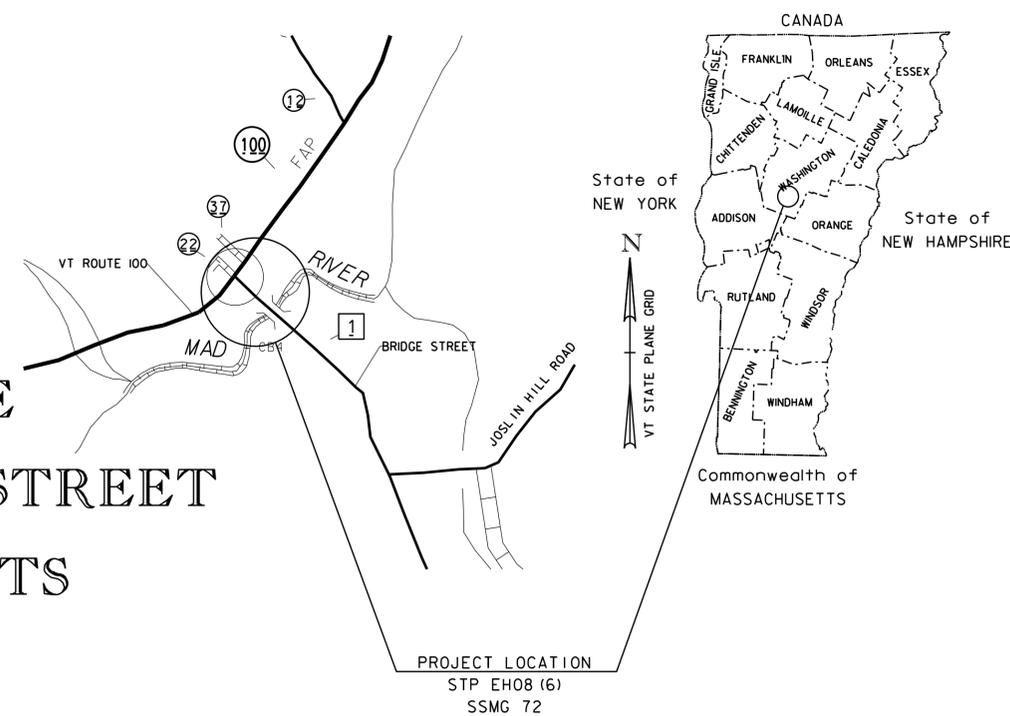
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

SURVEYED BY : DUBOIS & KING, INC.
 SURVEYED DATE : 9/2010 (STP EH08 (6))
 9/2011 (SSMG 72)

DATUM
 VERTICAL NAVD 88
 HORIZONTAL NAD 83 (GPS)



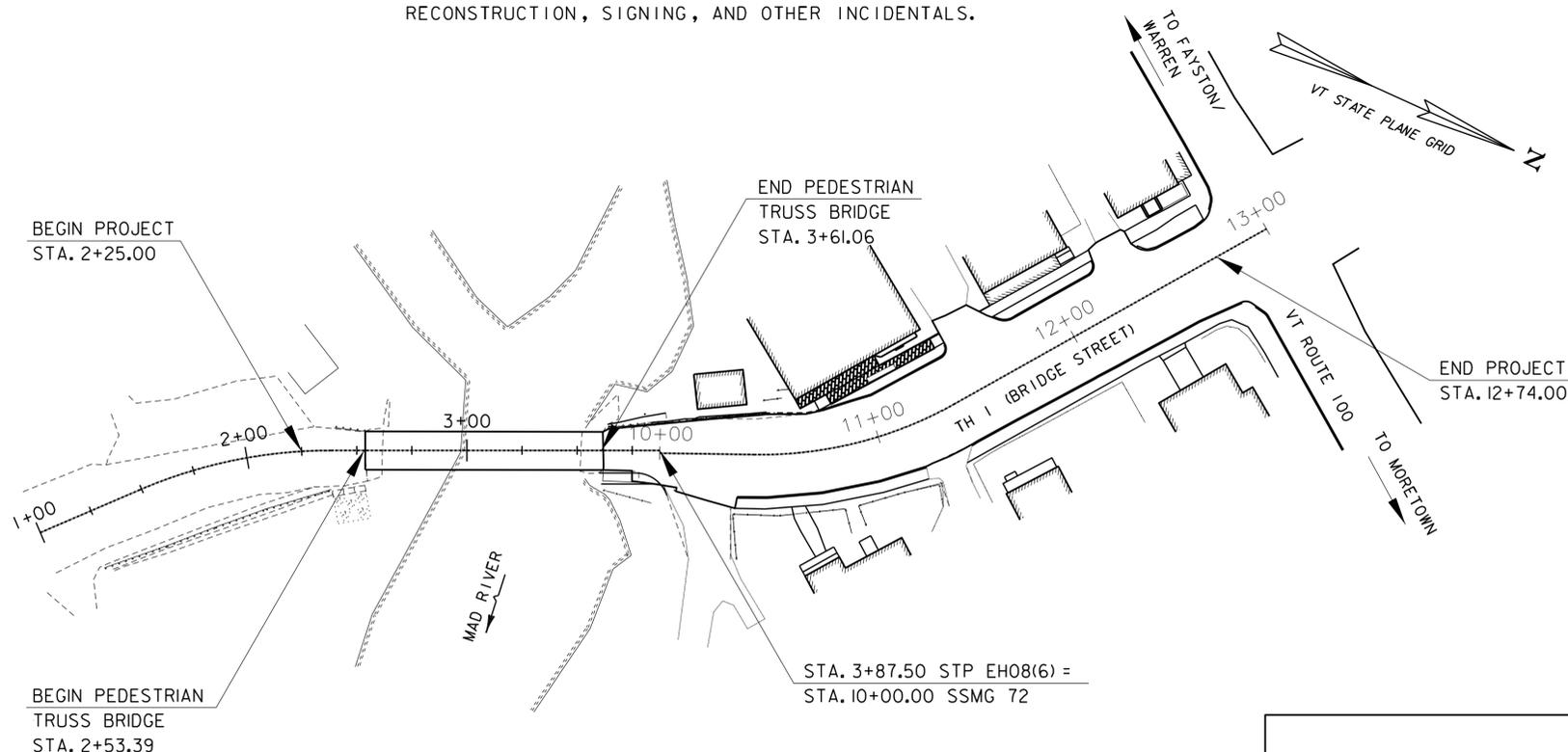
TOWN OF WAITSFIELD COUNTY OF WASHINGTON PROPOSED IMPROVEMENT VILLAGE COVERED BRIDGE REHABILITATION AND BRIDGE STREET STORMWATER IMPROVEMENTS



ROUTE NO : TH1 BRIDGE STREET BRIDGE NO : CB NO. 4 WORLD GUIDE NO. 45-12-14

PROJECT LOCATION: LOCATED ON BRIDGE STREET, BEGINNING APPROXIMATELY 450 FEET EAST OF VT ROUTE 100, AND EXTENDING WEST TO THE INTERSECTION OF BRIDGE STREET AND VT ROUTE 100.

PROJECT DESCRIPTION: REHABILITATION OF THE EXISTING COVERED BRIDGE, INCLUDING REPLACEMENT OF THE EXISTING WALKWAY WITH A NEW SELF-SUPPORTING WALKWAY, DECK REPLACEMENT, PARTIAL ROOF REPLACEMENT, ABUTMENT EXTENSIONS, NEW WINGWALLS, AND CONCRETE REPAIRS. ALSO INCLUDED IS RETAINING WALL RECONSTRUCTION, APPROACH GUARDRAIL, STORMDRAIN RECONSTRUCTION AND IMPROVEMENTS, ROADWAY RECONSTRUCTION, SIGNING, AND OTHER INCIDENTALS.



**CONTRACT PLANS
 DECEMBER, 2014**

TOWN OF WAITSFIELD
 CHAIRMAN, BOARD OF SELECTMEN
 APPROVED _____ DATE _____
 PROJECT MANAGER : EVAN P. DETRICK, P.E.
 PROJECT NAME : VILLAGE COVERED BRIDGE REHAB & BRIDGE STREET STORMWATER IMPROVEMENTS
 PROJECT NUMBER : STP EH08 (6) & SSMG 72
 D&K NUMBER : 620922 & 121447
 SHEET 1 OF 30 SHEETS



SCALE 1" = 40'-0"
 40 0 40

COMPOSITE QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES										TOTALS			DESCRIPTIONS			DETAILED SUMMARY OF QUANTITIES		
				STP EH08 (6) - COVERED BRIDGE BASE BID	DECK REPLACEMENT (ADD ALT. A)	CONCRETE REPAIRS (ADD ALT. B)	BRIDGE ST. RET. WALL (ADD ALT. C)		SSMG 72 (ADD ALT. D)	ROUND	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	QUANTITIES	UNIT	ITEMS
				85	-	-	-		800		885		CY	COMMON EXCAVATION	203.15			
				-	-	-	-		34		34		CY	SOLID ROCK EXCAVATION	203.16			
				-	-	-	-		140		140		CY	SAND BORROW	203.31			
				-	-	-	-		470		470		CY	TRENCH EXCAVATION OF EARTH	204.20			
				-	-	-	-		50		50		CY	TRENCH EXCAVATION OF ROCK	204.21			
				-	-	-	-		1		1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY	204.22			
				90	-	-	100		-		190		CY	STRUCTURE EXCAVATION	204.25			
				105	-	-	85		75		265		CY	GRANULAR BACKFILL FOR STRUCTURES	204.30			
				40	-	-	-		-		40		LF	DRILLING AND BLASTING OF SOLID ROCK	205.10			
				25	-	-	-		-		25		CY	COFFERDAM EXCAVATION,EARTH	208.30			
				11	-	-	-		-		11		CY	COFFERDAM EXCAVATION,ROCK	208.35			
				1	-	-	-		-		1		LS	COFFERDAM (NORTH ABUTMENT AND WINGWALL)	208.40			
				25	-	-	-		-		25		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10			
				70	-	-	-		675		745		CY	SUBBASE OF GRAVEL	301.15			
				0.5	-	-	-		3.2		3.7		CWT	EMULSIFIED ASPHALT	404.65			
				53	-	3	24		-		80		CY	CONCRETE, HIGH PERFORMANCE CLASS B	501.34			
				-	-	2	-		-		2		EACH	SHORING SUPERSTRUCTURE BEARINGS	502.11			
				5800	-	85	5500		-		11385		LB	REINFORCING STEEL, LEVEL I	507.11			
				75	-	22	54		-		151		LF	DRILLING AND GROUTING DOWELS	507.16			
				6	-	6	3		-		15		GAL	WATER REPELLENT, SILANE	514.10			
				1.80	5.70	-	-		-		7.50		MFBM	STRUCTURAL LUMBER AND TIMBER - UNTREATED	522.20			
				1.25	-	-	-		-		1.25		MFBM	STRUCTURAL LUMBER AND TIMBER - TREATED	522.25			
				1.30	-	-	-		-		1.30		MFBM	NON - STRUCTURAL LUMBER-UNTREATED	522.30			
				1	-	-	-		-		1		EACH	PARTIAL REMOVAL OF STRUCTURE	529.20			
				-	1	-	-		-		1		EACH	PARTIAL REMOVAL OF STRUCTURE (DECKING)	529.20			
				-	-	1.2	-		-		1.2		CY	REMOVAL OF CONCRETE OR MASONRY	529.25			
				9	-	-	4		-		13		CY	CONCRETE, CLASS C	541.30			
				1	-	-	-		-		1		LS	PREFABRICATED MULTI-MODAL BRIDGE (578 SF - EST.)	545.20			
				-	-	13	-		-		13		SY	REPAIR OF CONCRETE SUBSTRUCTURE SURFACE CLASS I	580.13			
				-	-	6	-		-		6		SY	REPAIR OF CONCRETE SUBSTRUCTURE SURFACE CLASS II	580.14			
				-	-	-	-		155		155		LF	18" CPEP(SL)	601.2615			
				-	-	-	-		325		325		LF	24" CPEP(SL)	601.2620			
				-	-	-	-		6		6		EACH	PRECAST REINFORCED CONC. CATCH BASIN WITH CAST IRON GRATE	604.20			
				-	-	-	8		4		12		CY	STONE FILL, TYPE I	613.10			
				-	-	-	-		35		35		LF	VERTICAL GRANITE CURB	616.21			
				-	-	-	-		345		345		LF	REMOVE AND RESETTNG CURB	616.40			
				-	-	-	-		35		35		LF	REMOVAL OF EXISTING CURB	616.41			
				13	-	-	-		213		226		SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	618.10			
				-	-	-	-		23		23		SY	PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH	618.11			

PROJECT NAME:	WAITSFIELD
PROJECT NUMBER:	STP EH08(6) AND SSMG 72
FILE NAME: 620922_FRM.dgn	PLOT DATE: 12/23/2014
PROJECT MANAGER: EPD	DRAWN BY: RHB
DESIGNED BY: RHB	CHECKED BY: EPD
COMPOSITE QUANTITY SHEET #1	SHEET 2 OF 30

COMPOSITE QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES											TOTALS			DESCRIPTIONS			DETAILED SUMMARY OF QUANTITIES		
					STP EH08 (6) - COVERED BRIDGE BASE BID	DECK REPLACEMENT (ADD ALT. A)	CONCRETE REPAIRS (ADD ALT. B)	BRIDGE ST. RET. WALL (ADD ALT. C)		SSMG 72 (ADD ALT. D)	ROUND	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	QUANTITIES	UNT	ITEMS
					12	-	-	-		12		24		SF	DETECTABLE WARNING SURFACE	618.30			
					47	-	-	-		-		47		LF	STEEL BACKED TIMBER GUARDRAIL	621.18			
					10	-	-	-		-		10		LF	REMOVING AND RESET GUARD RAIL	621.75			
					15	-	-	-		25		40		HR	UNIFORMED TRAFFIC OFFICERS	630.10			
					40	-	-	40		160		240		HR	FLAGGERS	630.15			
					0.5	-	-	-		0.5		1		LS	MOBILIZATION / DEMOBILIZATION	635.11			
					1	-	-	-		-		1		LS	TRAFFIC CONTROL	641.10			
					2	-	-	-		-		2		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15			
					-	-	-	-		370		370		LF	4" WHITE LINE	646.20			
					-	-	-	-		550		550		LF	4" YELLOW LINE	646.21			
					-	-	-	-		25		25		LF	24" STOP BAR	646.26			
					-	-	-	-		4		4		EACH	LETTER OR SYMBOL	646.30			
					-	-	-	-		100		100		SY	GEOTEXTILE FOR SILT FENCE	649.51			
					5	-	-	-		5		10		LB	SEED	651.15			
					10	-	-	-		5		15		LB	FERTILIZER	651.18			
					0.03	-	-	-		0.02		0.05		TON	AGRICULTURAL LIMESTONE	651.20			
					0.03	-	-	-		0.02		0.05		TON	HAY MULCH	651.25			
					10	-	-	-		15		25		CY	TOPSOIL	651.35			
					-	-	-	-		11		11		EACH	INLET PROTECTION DEVICE, TYPE I	653.40			
					60	-	-	-		-		60		SF	TRAFFIC SIGNS, TYPE A	675.20			
					90	-	-	-		-		90		LF	SQUARE TUBE SIGN POSTS AND ANCHOR	675.341			
					10	-	-	-		-		10		EACH	REMOVING SIGNS	675.50			
					-	-	-	-		460		460		LF	ELECTRICAL CONDUIT (2") (PVC)	678.21			
					37	-	-	-		-		37		LF	WIRED CONDUIT (2") (PVC)	678.23			
					-	-	-	-		2		2		EACH	JUNCTION BOX	678.26			
					-	-	-	-		135		135		LF	ELECTRICAL CONDUIT SLEEVE	678.30			
					-	-	-	-		1		1		EA	POWER DROP STANCHION, STREET LIGHTING	679.55			
					24	-	-	31		-		55		LF	SPECIAL PROVISION (TIMBER RAILING)	900.640			
					-	-	-	-		1		1		LU	SPECIAL PROVISION (MAT DENSITY PAY ADJUSTMENT, SMALL QUANTITY) (N.A.B.I.)	900.650			
					-	-	-	-		1		1		LU	SPECIAL PROVISION (MIXTURE PAY ADJUSTMENT) (N.A.B.I.)	900.650			
					1375	-	-	-		-		1375		SF	SPECIAL PROVISION (CEDAR SHINGLE ROOF)	900.670			
					33	-	-	-		300		333		TON	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)	900.680			

PROJECT NAME:	WAITSFIELD
PROJECT NUMBER:	STP EH08(6) AND SSMG 72
FILE NAME: 620922_FRM.dgn	PLOT DATE: 12/23/2014
PROJECT MANAGER: EPD	DRAWN BY: RHB
DESIGNED BY: RHB	CHECKED BY: EPD
COMPOSITE QUANTITY SHEET #2	SHEET 3 OF 30

GENERAL NOTES:

- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT, AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2011, AND ITS LATEST REVISIONS, THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 5TH EDITION, DATED 2010, WITH LATEST INTERIM REVISIONS, AND AASHTO LRFD GUIDE SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES, 2ND EDITION.
- ALL WORK PERFORMED BY THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS AND REQUIREMENTS.
- ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL, AND ARE GIVEN AT 68 DEGREES FAHRENHEIT, UNLESS NOTED OTHERWISE.
- DIMENSIONS, ANGLES, BEARINGS, AND ELEVATIONS OF THE EXISTING BRIDGE SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM LIMITED FIELD INVESTIGATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING FIELD MEASUREMENTS OF ALL EXISTING STRUCTURE COMPONENTS TO ASSURE CONSISTENCY WITH THE PROPOSED MODIFICATIONS PRIOR TO ORDERING MATERIALS. ANY DISCREPANCIES IN DIMENSIONS, CHARACTER, OR EXTENT OF THE EXISTING FEATURES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE ADVANCING THE WORK. WORKING DRAWINGS REQUIRED FOR VARIOUS ITEMS OF WORK SHALL INDICATE THE ACTUAL FIELD MEASUREMENTS AND SHALL BE SO NOTED (V. I. F. = VERIFY IN FIELD).
- THE EXISTING RIGHT-OF-WAY AS SHOWN ON THESE PLANS WAS OBTAINED FROM INFORMATION PROVIDED BY THE TOWN. ALL WORK SHALL BE COMPLETED WITHIN THE EXISTING RIGHT-OF-WAY. IF THE CONTRACTOR DESIRES TO WORK OUTSIDE OF THE EXISTING RIGHT-OF-WAY, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THE NECESSARY RIGHTS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SAFETY, AND MEANS AND METHODS TO PERFORM AND COMPLETE THE WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND DETERMINING ALL UTILITIES (ABOVE AND BELOW GROUND) WITHIN THE PROJECT LIMITS, AND TO TAKE THE NECESSARY PRECAUTIONS TO PROTECT UTILITIES DURING CONSTRUCTION. CONTACT DIG-SAFE AT 1-800-DIG-SAFE (WWW.DIGSAFE.COM).
- ALL WORK MUST BE DONE IN THE DRY. CONTRACTOR IS RESPONSIBLE FOR DIVERTING, PUMPING, OR OTHERWISE CONTROLLING WATER AS NECESSARY. PAYMENT FOR DIVERTING WATER, PUMPING, DEWATERING, OR OTHERWISE CONTROLLING WATER SHALL BE UNDER TO ITEM 208.40, "COFFERDAM".
- IN CASE OF CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION.
- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS OF THE SITE AND SURROUNDINGS PRIOR TO BIDDING ON OR PERFORMING THE WORK.
- THE CONTRACTOR SHALL BID AND PERFORM THE WORK FROM A COMPLETE SET OF PLANS AND SPECIFICATIONS, AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS WITHIN THE CONSTRUCTION DOCUMENTS.
- ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED WITHIN THE IDENTIFIED CONSTRUCTION LIMITS. ANY NEED TO GO BEYOND THESE LIMITS MAY TRIGGER ADDITIONAL PERMITTING REQUIREMENTS AND WILL REQUIRE PRIOR WRITTEN APPROVAL BY OWNER AND ENGINEER.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONDITIONS THAT ARE UNEXPECTED, UNKNOWN AND/OR NOT INDICATED ON THE DRAWINGS AND SHALL PROCEED AS DIRECTED BY THE ENGINEER.
- NO DEVIATION OR DEPARTURE FROM THE DESIGN INTENT PRESENTED IN THE CONTRACT DOCUMENTS WILL BE ALLOWED UNLESS AUTHORIZED BY THE ENGINEER.
- ALL STANDING EXISTING TREES TO REMAIN UNLESS OTHERWISE IDENTIFIED ON THE DRAWINGS OR DIRECTED BY THE ENGINEER.

STRUCTURE REMOVAL NOTES:

- THE FOLLOWING COMPONENTS OF THE VILLAGE COVERED BRIDGE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR:
 - EXISTING MODULAR BLOCK WINGWALL IN SOUTHEAST CORNER
 - EXISTING BACKWALLS, TO THE LIMITS SHOWN ON THE PLANS
 - EXISTING CANTILEVERED COVERED BRIDGE WALKWAY, TO THE LIMITS SHOWN ON THE PLANS.
 - THE EXISTING SIDEWALK ROOF RAFTERS, ROOF SHEATHING, AND CEDAR SHINGLES, TO THE LIMITS SHOWN ON THE PLANS.
 - THE EXISTING WOOD WALKWAY IN THE NORTHEAST CORNER
 - EXISTING TIMBER TRUSS DECKING, TO THE LIMITS SHOWN ON THE PLANS
 - EXISTING TIMBER FLOOR BEAMS, AS INDICATED.
- EXCEPT AS NOTED OTHERWISE, ITEM 529.20, "PARTIAL REMOVAL OF STRUCTURE" SHALL INCLUDE ANY WORK NECESSARY TO FACILITATE AND ACCOMPLISH THE SCOPE OF WORK AS INDICATED BY THE CONTRACT DOCUMENTS AND AS DIRECTED BY THE ENGINEER: REMOVING AND DISPOSING SUPERSTRUCTURE MEMBERS AND PORTIONS OF MEMBERS; AS WELL AS REMOVING AND STOCKPILING MEMBERS AND PORTIONS OF MEMBERS FOR RE-USE, INCLUDING REMOVING STOCK PILING MEMBERS FOR THE CONTRACTOR'S METHODS OF REHABILITATION.

FOUNDATION NOTES:

- FOOTINGS OR SUBFOOTINGS FOR SUBSTRUCTURES FOUNDED ON BEDROCK SHALL BE PLACED ON CLEAN, COMPETENT ROCK. ALL LOOSE ROCK AND DEBRIS SHALL BE REMOVED.
- IF COMPETENT BEDROCK (AS DETERMINED BY THE ENGINEER) IS WITHIN 1'-0" BELOW THE DESIGN BOTTOM OF FOOTING FOR THE EXTENT OF THE SUBSTRUCTURE AS SHOWN IN THE PLANS, THE FOOTING MAY BE PLACED INTEGRALLY TO THE TOP OF THE BEDROCK USING THE CONCRETE ITEM SPECIFIED FOR THE FOOTING AT THE CONTRACT UNIT PRICE.
- WHERE COMPETENT BEDROCK IS BELOW THE DESIGN BOTTOM OF FOOTING BY MORE THAN 1'-0" FOR ANY PORTION OF THE SUBSTRUCTURE, A SUBFOOTING WILL BE REQUIRED. IF A SUBFOOTING IS REQUIRED, THE TOP SURFACE OF THE SUBFOOTING SHALL BE INTENTIONALLY ROUGHENED TO A 1/4" MAGNITUDE.
- WHERE COMPETENT BEDROCK IS ABOVE THE DESIGN BOTTOM OF FOOTING ELEVATION, IT SHALL BE REMOVED WITH CONTRACT PAY ITEMS UPON CONSULTATION WITH THE ENGINEER. IF THE ENGINEER DETERMINES THE DESIGN BOTTOM OF FOOTING ELEVATION IS SIGNIFICANTLY BELOW THE BEDROCK ELEVATION, THE CONTRACTOR SHALL PROVIDE A BEDROCK PROFILE TO THE ENGINEER FOR DETERMINATION OF REVISED FOOTING STEPS.
- REMOVAL OF ANY BEDROCK IMMEDIATELY ADJACENT TO THE EXISTING BRIDGE SHALL BE COMPLETED USING A CONTROLLED METHOD SUCH AS THE CHEMICAL EXPANSION METHOD, SO AS NOT TO DISTURB THE EXISTING STRUCTURE. ANY PRODUCT USED SHALL BE ACCORDING TO MANUFACTURER'S DIRECTION. PAYMENT FOR DRILLING AND BREAKAGE SHALL BE UNDER ITEM 205.10, "DRILLING AND BLASTING OF SOLID ROCK".
- OVERBREAKAGE AND REPLACEMENT WITH THE FOOTING CONCRETE BEYOND THE MAXIMUM ALLOWANCE SPECIFIED IN SUBSECTION 208.11(c) WILL BE AT THE CONTRACTOR'S EXPENSE.
- STEEPLY SLOPED LEDGE SURFACES (EXCEEDING 4 H:1 V) SHALL BE BENCH CUT AS DIRECTED BY THE THE ENGINEER. PAYMENT SHALL BE UNDER ITEMS 205.10, "DRILLING AND BLASTING OF SOLID ROCK" AND ITEM 204.25, "STRUCTURE EXCAVATION" OR ITEM 208.35, "COFFERDAM EXCAVATION, ROCK".
- DOWELS SHALL BE DRILLED AND GROUTED INTO BEDROCK WHERE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE DOWELS SHALL HAVE A 2'-0" MINIMUM EMBEDMENT INTO THE BEDROCK AND SHALL EXTEND THROUGH THE SUBFOOTING, IF USED. DRILLED HOLES SHALL BE 1" DIA. LARGER THAN DOWEL.

CONCRETE AND REINFORCING NOTES:

- CONCRETE PAYMENT AND CLASSIFICATION SHALL BE AS FOLLOWS:
 - ITEM 501.34, "CONCRETE, HIGH PERFORMANCE CLASS B" (FOOTINGS, ABUTMENTS, WINGWALLS, RETAINING WALL, REPAIR AREAS AS INDICATED)
 - ITEM 541.30, "CONCRETE, CLASS C" (SUBFOOTINGS)
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4".
- WATER REPELLENT, SILANE SHALL BE APPLIED TO ALL NEW AND EXISTING, EXPOSED CONCRETE SURFACES. PAYMENT SHALL BE MADE UNDER ITEM 514.10, "WATER REPELLENT, SILANE".
- REINFORCING STEEL IN THE ABUTMENT, WINGWALLS, AND RETAINING WALL SHALL CONFORM TO SECTION 507 OF THE SPECIFICATIONS AND BE COATED AS FOLLOWS:

FOOTINGS:	PLAIN, UNCOATED
STEM, SEAT, AND BACKWALLS:	EPOXY COATED
- WELDED WIRE FABRIC (WWF) SHALL CONFORM TO SECTION 713 OF THE SPECIFICATIONS AND BE FURNISHED IN FLAT SHEETS.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LENGTHS AND REINFORCING BAR BENDS BASED ON THESE DRAWINGS.
- PAYMENT FOR PLAIN AND EPOXY COATED REINFORCING STEEL SHALL BE MADE UNDER ITEM 507.11, "REINFORCING STEEL, LEVEL 1".
- MINIMUM CLEAR COVER FOR REINFORCING STEEL SHALL BE 3", EXCEPT FOR ALONG THE BACK FACES OF WALLS AGAINST EARTH SHALL BE 2".
- A MINIMUM OF 4" CLR. SHALL BE MAINTAINED FROM EXISTING CONCRETE SURFACES WHEN DRILLING AND GROUTING. DRILLED HOLES SHALL BE 1" DIA. LARGER THAN DOWEL.
- DOWELS SHALL BE GROUTED WITH TYPE IV MORTAR, LISTED ON THE VERMONT AGENCY OF TRANSPORTATION'S APPROVED PRODUCTS LIST, OR OTHER APPROVED MATERIAL.

CONCRETE REPAIR NOTES:

- AREAS INDICATED FOR CONCRETE REPAIR ON THE PLANS ARE APPROXIMATE. EXISTING ABUTMENTS AND CONCRETE SUPPORT EXTENSIONS SHALL BE INSPECTED FOR DETERIORATED CONCRETE JOINTLY BY THE ENGINEER AND CONTRACTOR. ALL AREAS OF EXISTING CONCRETE DETERMINED BY THE ENGINEER TO BE SUFFICIENTLY DETERIORATED TO REQUIRE REPAIR SHALL BE MARKED FOR REPAIR. ALL INSPECTION, REMOVAL OF LOOSE OR UNFIT CONCRETE, AND CLEANING SHALL BE PAID FOR UNDER ITEM 580.13, "REPAIR OF CONCRETE SUBSTRUCTURE SURFACE, CLASS I" AND ITEM 580.14, "REPAIR OF CONCRETE SUBSTRUCTURE SURFACE, CLASS II". REMOVAL OF THE DETERIORATED PORTION OF THE NORTHWEST BACKWALL SHALL BE PAID UNDER ITEM 529.25, "REMOVAL OF CONCRETE OR MASONRY".
- FOLLOWING CONCRETE REPAIR, ALL EXPOSED CONCRETE SURFACES OF ABUTMENTS SHALL BE CLEANED OF SAND AND DEBRIS, LIGHTLY BLAST CLEANED AS DIRECTED BY THE ENGINEER, AND COATED WITH WATER REPELLENT. PAYMENT FOR WATER REPELLENT SHALL BE MADE UNDER ITEM 514.10, "WATER REPELLENT, SILANE". PAYMENT FOR CLEANING AND PREPARING THE SURFACE SHALL BE INCIDENTAL TO ITEM 514.10, "WATER REPELLENT, SILANE".
- REFER TO SECTION 580 OF THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING CONCRETE REPAIR.
- IT IS ANTICIPATED THAT SHORING THE SUPERSTRUCTURE IN THE AREAS OF THE BOLSTER BEAM BEARING BLOCKS WILL BE REQUIRED TO COMPLETE THE CONCRETE REPAIRS INDICATED IN THESE AREAS. PAYMENT FOR SHORING THE SUPERSTRUCTURE AT THE BOLSTER BEAMS SHALL BE MADE UNDER ITEM 502.11, "SHORING SUPERSTRUCTURE BEARINGS".

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PROFESSIONAL SEAL

CONTRACT PLANS

NO.	DATE	BY	DATE	DESCRIPTION

TOWN OF WAITSFIELD
 9 BRIDGE STREET
 WAITSFIELD, VT

VILLAGE COVERED BRIDGE REHAB. & BRIDGE STREET STORMWATER IMPROVEMENTS

SHEET TITLE

PROJECT NOTES

DRAWN BY RHB/JDG	DATE DEC. 2014
CHECKED BY EPD	DBK PROJECT # 620922
PROJ. ENG. RHB	DBK ARCHIVE # 620922

SHEET NUMBER

4

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PREFABRICATED MULTI-MODAL BRIDGE NOTES:

1. THE PREFABRICATED MULTI-MODAL BRIDGE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 545 OF THE SPECIFICATIONS. THE BRIDGE SHALL MEET THE DIMENSIONS INDICATED IN THE PLANS AND SHALL BE PAID UNDER ITEM 545.20, "PREFABRICATED MULTI-MODAL BRIDGE (578 SF - EST.)".
2. ALL ELEMENTS OF THE PREFABRICATED MULTI-MODAL BRIDGE SHALL BE DESIGNED BY THE SUPPLIER, INCLUDING ALL ANCHORAGES, CONNECTIONS BETWEEN ELEMENTS, DECKING FOR THE BRIDGE, AND BEARING DEVICES. ALL ELEMENTS SHALL BE INSTALLED ACCORDING TO THE FABRICATOR'S RECOMMENDATIONS. THE CONTRACTOR SHALL SUBMIT SHOP FABRICATION DRAWINGS FOR THE PREFABRICATED BRIDGE FOR APPROVAL. IN ADDITION TO FABRICATION DRAWINGS, THE FABRICATOR SHALL ALSO PROVIDE BACKUP CALCULATIONS IN ACCORDANCE WITH THESE PLANS, THE AASHTO SPECIFICATIONS REFERENCED IN GENERAL NOTE 1, AND THE VTRANS STRUCTURES DESIGN MANUAL, 2010. THE BACKUP CALCULATIONS SHALL BE SIGNED, STAMPED, AND DATED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE ENGINEERING IN THE STATE OF VERMONT. NOTE THAT THE FABRICATOR ASSUMES ALL LIABILITY FOR THE ADEQUACY AND ACCURACY OF THE PREFABRICATED BRIDGE DESIGN.
3. THE DESIGN OF THE PREFABRICATED MULTI-MODAL BRIDGE SHALL BE FOR:
 - ALL APPLICABLE DEAD LOADS (SEE SHEET 11)
 - LIVE LOAD = 85 PSF
 - SNOW LOAD, Pg = 70 PSF
 - WIND LOAD, V=90 MPH
 - ASTM A 500, GRADE B STRUCTURAL STEEL
 - DEFLECTION LIMITS = L/720 FOR PEDESTRIAN LIVE LOAD
4. SEE SHEET 11 FOR REACTIONS FROM THE ROOF ON THE PREFABRICATED MULTI-MODAL BRIDGE.
5. THE PREFABRICATED MULTI-MODAL BRIDGE SHALL BE RECTANGULAR IN ELEVATION VIEW AND SHALL NOT CONTAIN RESIDUAL CAMBER IN ITS FINAL POSITION.
6. THE PREFABRICATED MULTI-MODAL BRIDGE SHALL BE COLOR GALVANIZED BLACK (COLOR CHIP NO. 27038). THE COST OF SURFACE PREPARATION AND COLOR GALVANIZING THE STEEL WILL BE PAID UNDER ITEM 545.20, "PREFABRICATED MULTI-MODAL BRIDGE (578 SF - EST.)".
7. HARDWARE FOR CONNECTIONS BETWEEN INDIVIDUAL TRUSS MEMBERS, BETWEEN THE TRUSS AND TIMBER CLADDING, AND BETWEEN THE TRUSS AND SUBSTRUCTURES SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO ITEM 545.20, "PREFABRICATED MULTI-MODAL BRIDGE (578 SF - EST.)".
8. BEARING DEVICES AND ANCHOR BOLTS SHALL BE AS DESIGNED AND DETAILED BY THE FABRICATOR, AND SHALL BE INSTALLED ACCORDING TO THE FABRICATORS RECOMMENDATIONS. PAYMENT FOR THE BEARING DEVICES AND ANCHOR BOLTS SHALL BE MADE UNDER ITEM 545.20, "PREFABRICATED MULTI-MODAL BRIDGE (578 SF - EST.)".
9. PAYMENT FOR THE DECKING SHALL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED UNDER ITEM 545.20, "PREFABRICATED MULTI-MODAL BRIDGE (578 SF - EST.)".

TIMBER NOTES:

1. NEW TIMBER SHALL BE AS FOLLOWS:
 - A. SIDING: EASTERN WHITE PINE, COMMON PREMIUM GRADE
 - B. SIDEWALK ROOF SUPPORTS (POSTS, BEAMS, AND CROSS MEMBERS), STEEL TRUSS DECKING, TRUSS SIDE NAILERS, AND TRUSS CAPS: SOUTHERN PINE NO. 2
 - C. TIMBER TRUSS DECK PLANKS: WHITE OAK, NO. 1 GRADE OR BETTER, EDGE GRAIN PLANKS
 - D. TIMBER TRUSS FLOOR BEAMS, SIDEWALK ROOF RAFTERS, TIMBER TRUSS ROOF RAFTER, AND ROOF SHEATHING: SOUTHERN PINE NO. 1

TIMBER NOTES (CONTINUED):

2. ALL TIMBER CONSTRUCTION SHALL COMPLY WITH SECTION 522 OF THE SPECIFICATIONS, THE 2012 NATIONAL DESIGN SPECIFICATION (NDS) AND SUPPLEMENT FOR WOOD CONSTRUCTION, AND THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC) SPECIFICATIONS.
3. CONTRACTOR SHALL FIELD VERIFY SIZES AND DIMENSIONS OF EXISTING TIMBER COMPONENTS TO ASSURE CONSISTENCY WITH THE PROPOSED MODIFICATIONS.
4. EACH PIECE OF WOOD OR TIMBER SHALL BE GRADED BY A RECOGNIZED GRADING AGENCY. A CERTIFICATE OF COMPLIANCE SHALL BE SUBMITTED FOR ALL WOOD.
5. LEAD HOLES ARE TO BE FIELD DRILLED TO INSURE PROPER FIT. CONTRACTOR TO BE RESPONSIBLE FOR PROPER FIT OF CONNECTIONS.
6. ALL LAG BOLTS SHALL BE TIGHTENED SNUGLY . DO NOT EXCESSIVELY TIGHTEN TO CAUSE CRUSHING OF THE WOOD UNDER WASHER.
7. ALL NEW TIMBER BE SHALL BE UNTREATED, WITH THE EXCEPTION OF THE STEEL TRUSS DECKING, TRUSS SIDE NAILERS, AND TRUSS TOP CAPS. PRESERVATIVE TREATMENT SHALL BE IN ACCORDANCE WITH SUBSECTION 726.01 OF THE SPECIFICATIONS, PRESERVATIVE TYPE IV.
8. ALL JOB SITE FABRICATION CUTS AND BORINGS OF TREATED TIMBER SHALL BE TREATED PER SUBSECTION 522.13 OF THE SPECIFICATIONS.
9. ALL NUTS, BOLTS, WASHERS, SPIKES, AND SCREWS FOR TIMBER CONSTRUCTION SHALL CONFORM TO ASTM A307 AND BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123.
10. ALL NAILS USED SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153. THE USE OF ELECTRO GALVANIZED NAILS WILL NOT BE PERMITTED.
11. ALL NEW TIMBER SHALL BE PAID FOR AS FOLLOWS:
 - A. SIDING: ITEM 522.30, "NONSTRUCTURAL LUMBER, UNTREATED"
 - B. SIDEWALK ROOF SUPPORTS (POSTS, BEAMS, AND CROSS MEMBERS), TIMBER TRUSS DECK PLANKS, FLOOR BEAMS, SIDEWALK ROOF RAFTERS, TIMBER TRUSS ROOF RAFTER AND ROOF SHEATHING: ITEM 522.20, "STRUCTURAL LUMBER AND TIMBER, UNTREATED"
 - C. TRUSS SIDE NAILERS AND CAPS: ITEM 522.25, "STRUCTURAL LUMBER AND TIMBER, TREATED".
12. EXISTING CEDAR ROOF SHINGLES SHALL BE REMOVED AND REPLACED AS INDICATED IN THE PLANS. NEW SHINGLES SHALL BE RED CEDAR NO. 1 GRADE AND MATCH EXISTING CEDAR ROOF SHINGLES (LENGTH AND REVEAL) THAT ARE TO BE RETAINED. PAYMENT FOR NEW CEDAR ROOF SHINGLES SHALL BE MADE UNDER ITEM 900.670, "SPECIAL PROVISION (CEDAR SHINGLE ROOF)". PAYMENT FOR ASPHALT SATURATED FELT UNDERLAYMENT SHALL NOT BE MADE SEPARATELY BUT SHALL BE INCLUDED UNDER ITEM 900.670, "SPECIAL PROVISION (CEDAR SHINGLE ROOF)".
13. LUMBER SIZES INDICATED ARE NOMINAL, UNLESS NOTED OTHERWISE. ALL LUMBER SHALL BE DRESSED (S4S), EXCEPT AS INDICATED FULL SAWN OR ROUGH SAWN.

UTILITY NOTES:

1. WATER MAIN AND SERVICE LOCATIONS AND DEPTHS ARE SHOWN BASED UPON AS-BUILT INFORMATION FROM PHELPS ENGINEERING INC.
2. THE LOCATION OF UTILITIES SHOWN ON THESE PLANS IS APPROXIMATE, AND DUBOIS & KING MAKES NO CLAIM TO ITS ACCURACY OR COMPLETENESS.
3. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATION, SIZE, AND ELEVATION OF ALL UTILITIES, PRIOR TO THE START OF CONSTRUCTION.
4. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION, AND APPROPRIATE REMEDIAL ACTION SHALL BE DETERMINED AND AGREED UPON BY THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
5. 2" PVC WIRED CONDUIT SHALL RUN UNDERGROUND FROM THE EXISTING UTILITY POLE AT STA. 3+85 RT, THROUGH THE ABUTMENT SLEEVE. 1" RIGID STEEL WIRED CONDUIT SHALL RUN BETWEEN EXISTING TIMBER TRUSS AND NEW STEEL TRUSS, UP TO EXISTING METER BOX ON FIRST POST IN NORTHEAST CORNER. ALL CONDUIT, WIRING, AND CONNECTIONS SHALL BE PAID FOR UNDER ITEM 678.23, "WIRED CONDUIT (2") (PVC)".

TRAFFIC CONTROL NOTES:

1. THE TRAFFIC CONTROL INFORMATION PROVIDED IN THESE PLANS IS INTENDED TO BE A GENERAL OUTLINE OF HOW THE WORK IS TO PROCEED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SPECIFIC DETAILS TO ADDRESS SPECIFIC SITUATIONS. THIS RESPONSIBILITY INCLUDES PROVIDING A PLAN DETAILING THE USE AND PLACEMENT OF SIGNS, CHANNELING DEVICES, FLAGGERS, AND OTHER TRAFFIC CONTROL DEVICES. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL".
2. REFER TO MUTCD TYPICAL APPLICATIONS TA-1, TA-3, TA-6, AND TA-10 FOR TYPICAL APPLICATIONS OF MAINTAINING TRAFFIC THROUGH THE WORK AREA.
3. THE CONTRACTOR SHALL NOTIFY THE TOWN IN WRITING PRIOR TO IMPLEMENTATION OF ANY TRAFFIC CONTROL.
4. BRIDGE STREET (T.H. NO. 1) WILL BE ALLOWED TO BE CLOSED TO TRAFFIC, IN THE IMMEDIATE VICINITY OF THE BRIDGE, FOR A PORTION OF THE PROJECT DURATION. DURING NON-CLOSURE PERIODS, IT IS EXPECTED FOR TRAFFIC TO BE MAINTAINED THROUGH THE SITE. ACCESS SHALL BE MAINTAINED TO ALL DRIVES (COMMERICAL AND RESIDENTIAL) DURING CLOSURE AND NON-CLOSURE PERIODS. THE CONTRACTOR SHALL WORK WITH THE TOWN OF WAITSFIELD TO DEVELOP A PLAN TO MAINTAIN TRAFFIC DURING CONSTRUCTION AND SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL. IT IS ANTICIPATED FOR TRAFFIC CONTROL TO CONSIST OF TWO (2) PORTABLE CHANGEABLE MESSAGE SIGNS ALONG VT ROUTE 100, DETOUR SIGNING ALONG AN ACCEPTABLE DETOUR ROUTE (IF APPLICABLE), AND CONSTRUCTION AND SIDE ROAD CONSTRUCTION SIGNING. THE CONTRACTOR SHALL COORDINATE WITH VTRANS MAINTENANCE DISTRICT 6 REGARDING PLACEMENT OF PORTABLE CHANGEABLE MESSAGE SIGNS AND SIGNING WITHIN THE VT ROUTE 100 RIGHT-OF-WAY. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED FOR PLACEMENT OF TRAFFIC CONTROL ALONG VT ROUTE 100. PAYMENT FOR PREPARING THE PLAN, AND IMPLEMENTATION AND MAINTENANCE OF THE TRAFFIC CONTROL MEASURES DETAILED IN THE PLAN SHALL BE MADE UNDER ITEM 641.10, "TRAFFIC CONTROL". PAYMENT FOR PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE MADE SEPARATELY UNDER ITEM 641.15, "PORTABLE CHANGEABLE MESSAGE SIGN". THE TRAFFIC CONTROL PLAN SHALL BE IN ACCORDANCE WITH THE APPLICABLE VTRANS E AND T SERIES STANDARD DRAWINGS AND THE 2009 EDITION OF THE MUTCD.
5. THE INSTALLATION AND MAINTENANCE OF ALL SIGNS, BARRICADES, CONES, AND OTHER TRAFFIC CONTROL DEVICES SHALL BE PAID FOR UNDER ITEM 641.10, "TRAFFIC CONTROL". FLAGGERS REQUIRED FOR TRAFFIC CONTROL SHALL BE PAID FOR UNDER ITEM 630.15, "FLAGGERS".
6. EXISTING SIGNS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL SIGNING SHALL BE COVERED OR REMOVED AND RESET. COST CONSIDERED INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL".

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PROFESSIONAL SEAL

CONTRACT PLANS

NO.	DATE	DESCRIPTION	BY	DATE

TOWN OF
WAITSFIELD
9 BRIDGE STREET
WAITSFIELD, VT

VILLAGE COVERED
BRIDGE REHAB. &
BRIDGE STREET
STORMWATER
IMPROVEMENTS

SHEET TITLE

PROJECT NOTES

DRAWN BY	DATE
RHB/JDG	DEC. 2014
CHECKED BY	DBK PROJECT #
EPD	620922
PROJ. ENG.	DBK ARCHIVE #
RHB	620922

SHEET NUMBER

5

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EROSION PREVENTION AND SEDIMENT CONTROL NOTES:

1. THE EROSION CONTROL NOTES AND DETAILS PROVIDED IN THESE PLANS ARE CONCEPTUAL IN NATURE. THE CONTRACTOR SHALL FOLLOW THE "LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL" BY THE VERMONT AGENCY OF NATURAL RESOURCES FOR THE DESIGN/IMPLEMENTATION OF EROSION CONTROL MEASURES.
2. TEMPORARY EROSION CONTROL MEASURES ARE REQUIRED THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL THE PROJECT HAS BEEN COMPLETED.
3. THE CONTRACTOR SHALL ENSURE THAT ALL WORKERS UNDERSTAND THE PROVISIONS OF THE EROSION AND SEDIMENT CONTROL PLAN AS WELL AS THE INTENT OF THE MEASURES AND THE POSSIBLE NEED FOR ADDITIONAL MEASURES SHOULD UNEXPECTED CONDITIONS ARISE.
4. DISTURBED AREAS WITH POTENTIAL TO DISCHARGE SEDIMENT-LADEN WATER INTO THE STREAM OR OFF THE SITE MUST BE PROTECTED WITH TEMPORARY EROSION CONTROL MEASURES (E.G., SILT FENCE) AT THE COMPLETION OF EACH WORK DAY.
5. ALL STOCKPILES SHALL BE SURROUNDED BY SILT FENCE (SEE TEMPORARY SILT FENCE DETAIL) AT THE END OF EACH WORK DAY AND PRIOR TO ANY PRECIPITATION EVENT.
6. EXISTING VEGETATION IS TO REMAIN UNDISTURBED TO THE EXTENT POSSIBLE. NO TREES ARE TO BE REMOVED FROM AREAS OUTSIDE THE DESIGNATED CONSTRUCTION LIMITS.
7. INSTALLATION OF SILT FENCES SHALL BE COMPLETED PRIOR TO THE START OF SITE WORK IN ANY GIVEN AREA. SILT FENCE SHALL BE INSTALLED AS SHOWN ON THESE DRAWINGS, PER THESE NOTES AND DETAILS, AND ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
8. SILT FENCES SHALL BE KEPT CLEAN DURING CONSTRUCTION AND REMOVED WHEN ALL SLOPES HAVE A HEALTHY STAND OF VEGETATIVE COVER. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EVERY RAINFALL.
9. ALL DISTURBED AREAS SHALL BE REVEGETATED AS QUICKLY AS POSSIBLE. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS.
10. ONCE DISTURBED AREAS HAVE BEEN STABILIZED AND VEGETATION IS ESTABLISHED, ALL TEMPORARY EROSION CONTROL MEASURES SUCH AS SILT FENCE SHALL BE REMOVED. AREAS DISTURBED BY REMOVAL OF THESE MEASURES SHALL BE IMMEDIATELY SEEDED AND MULCHED.
11. AN AREA IS CONSIDERED "STABLE" IF ONE OF THE FOLLOWING HAS OCCURRED:
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
 - A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
 - A MINIMUM OF 3" OF NON-EROSIVE MATERIAL (SUCH AS STONE FILL) HAS BEEN INSTALLED.
 - EROSION CONTROL FABRIC HAS BEEN PROPERLY INSTALLED.
12. REPAIR OR REPLACEMENT OF EROSION CONTROL MEASURES SHALL BE MADE PROMPTLY AS NEEDED.

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PROFESSIONAL SEAL

**CONTRACT
 PLANS**

NO.	DATE	BY	DATE	DESCRIPTION

TOWN OF
 WAITSFIELD
 9 BRIDGE STREET
 WAITSFIELD, VT

VILLAGE COVERED
 BRIDGE REHAB. &
 BRIDGE STREET
 STORMWATER
 IMPROVEMENTS

SHEET TITLE

 PROJECT NOTES

DRAWN BY	DATE
RHB/JDG	DEC. 2014
CHECKED BY	DBK PROJECT #
EPD	620922
PROJ. ENG.	DBK ARCHIVE #
RHB	620922

SHEET NUMBER

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CONTRACT PLANS

NO.	DATE	DESCRIPTION	BY	CHKD.

TOWN OF
 WAITSFIELD
 9 BRIDGE STREET
 WAITSFIELD, VT

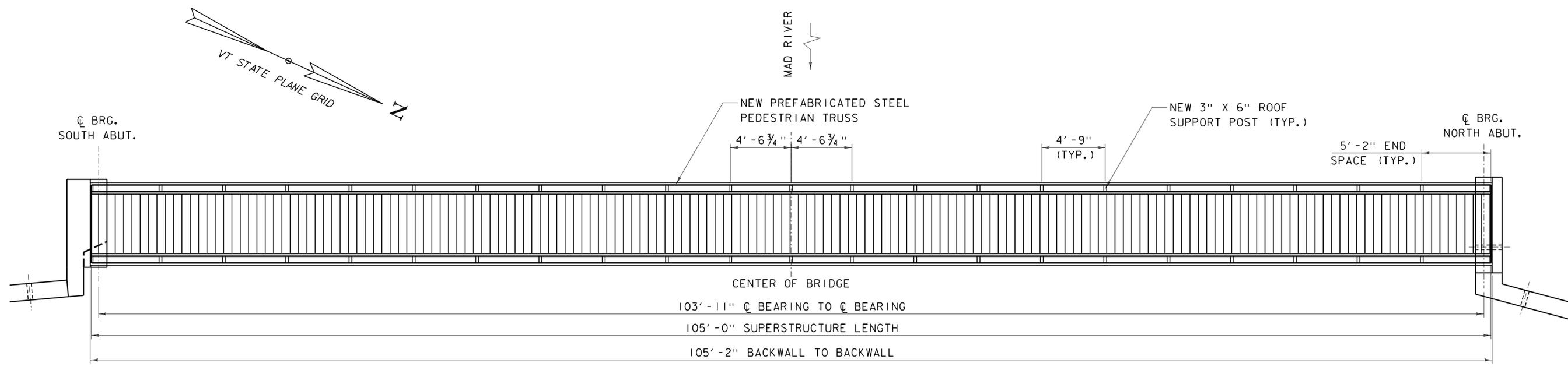
VILLAGE COVERED
 BRIDGE REHAB. &
 BRIDGE STREET
 STORMWATER
 IMPROVEMENTS

SHEET TITLE
 SUPERSTRUCTURE
 DETAILS

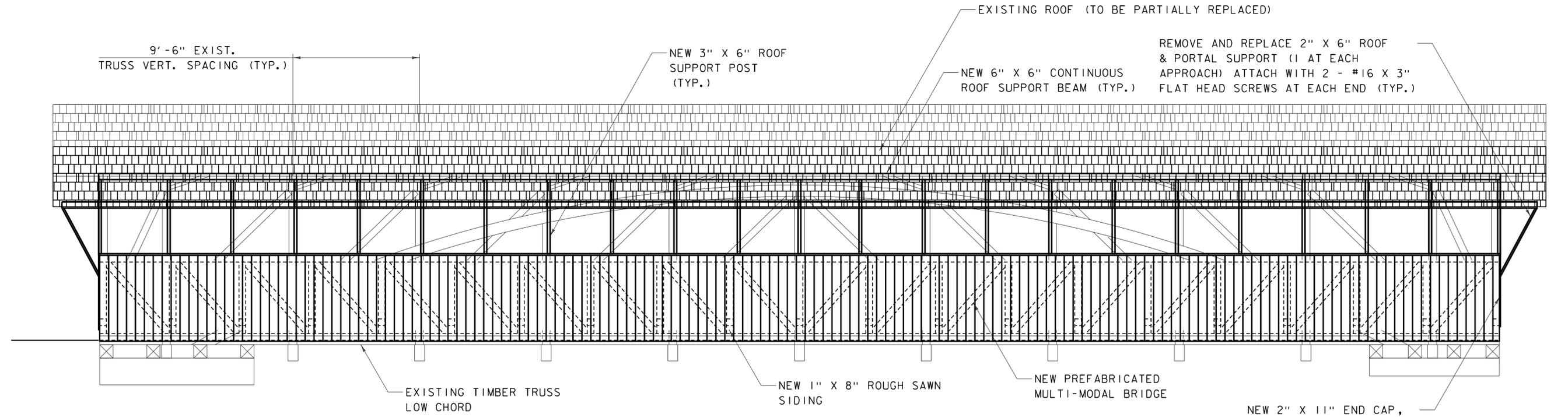
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RHB/JDG	DEC. 2014
CHECKED BY	DBK PROJECT #
RHD	620922
PRJ. ENG.	DBK ARCHIVE #
RHB	620922

SHEET NUMBER

12



PEDESTRIAN TRUSS PLAN
 SCALE: 1/4" = 1' - 0"



PEDESTRIAN TRUSS ELEVATION
 SCALE: 1/4" = 1' - 0"

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (GPS)

CONTRACT PLANS

NO.	DATE	DESCRIPTION	BY	DATE

TOWN OF WAITSFIELD
 9 BRIDGE STREET
 WAITSFIELD, VT

VILLAGE COVERED
 BRIDGE REHAB. &
 BRIDGE STREET
 STORMWATER
 IMPROVEMENTS

SHEET TITLE

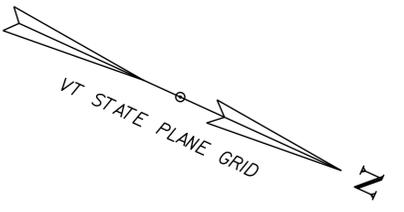
**ROOF FRAMING &
 FLOOR FRAMING PLAN**

DRAWN BY RHB/JDG	DATE DEC. 2014
CHECKED BY RHD	DBK PROJECT # 620922
PROJ. ENG. RHB	DBK ARCHIVE # 620922

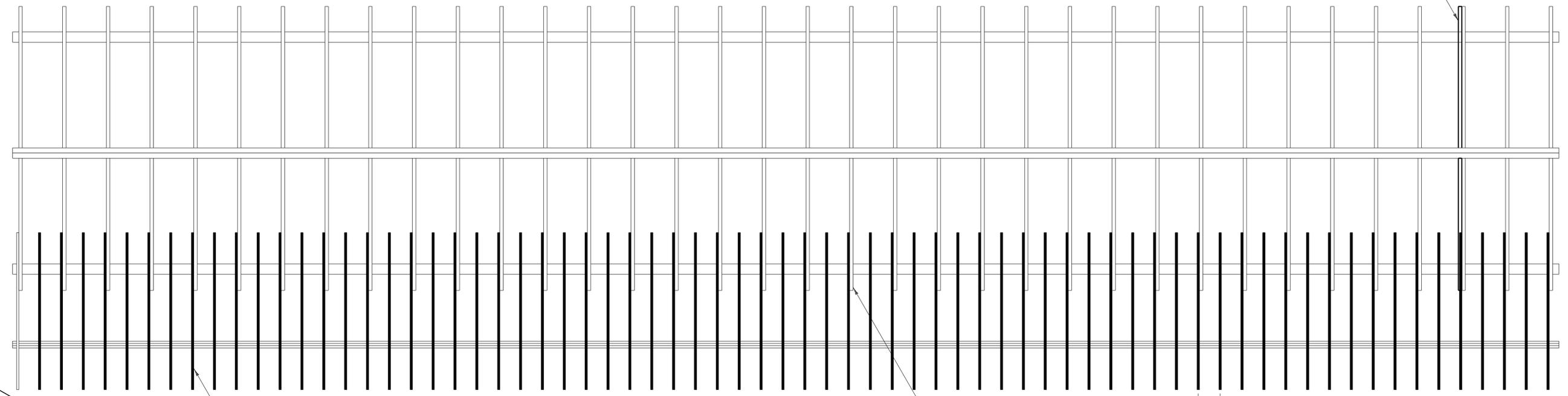
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13

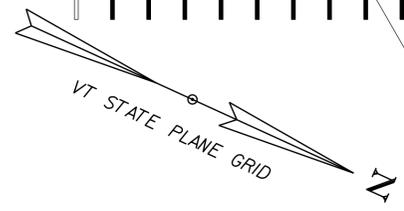
SHEET 13 OF 30



INSTALL NEW 3" X 5" (TRUE) ROOF RAFTER.
 SISTER WITH EXISTING 3" X 5" (TRUE).
 ATTACH WITH 2 - #14 X 4" FLAT HEAD
 SCREWS AT 1'-6" SPACING.



ROOF FRAMING PLAN
 SCALE: 1/4" = 1'-0"



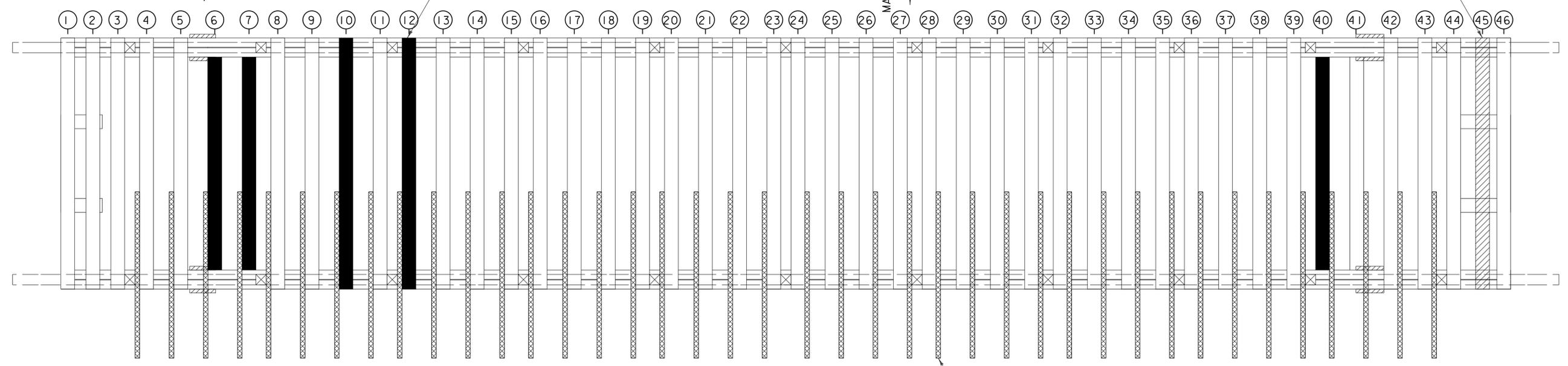
REPLACE 2" X 4" FULL SAWN (TRUE)
 SIDEWALK ROOF RAFTER (TYP. ALL
 SIDEWALK ROOF RAFTERS)

SEE ATTACHMENT DETAIL, SHEET 11
 (EVERY OTHER RAFTER) (TYP.)

1'-7" SPACING
 (TYP.)

REMOVE AND REPLACE 10" X 12"
 (TRUE) FLOOR BEAM (TYP.)

INSTALL MISSING 12" X 12" (TRUE)
 FLOOR BEAM



FLOOR FRAMING PLAN
 SCALE: 1/4" = 1'-0"

REMOVE EXISTING CANTILEVER
 SIDEWALK BEAM (TYP.)

LEGEND

- ① = FLOORBEAM NUMBER
- = MEMBER TO BE REPLACED
- ▨ = MISSING MEMBER TO BE REPLACED
- ▩ = MEMBER TO BE REMOVED

DATUM
 VERTICAL NAVD 88
 HORIZONTAL NAD 83 (GPS)

PLOTTED 12/30/2014

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CONTRACT PLANS

NO.	DESCRIPTION	BY	DATE

TOWN OF WAITSFIELD
9 BRIDGE STREET
WAITSFIELD, VT

VILLAGE COVERED
BRIDGE REHAB. &
BRIDGE STREET
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IMPROVEMENTS

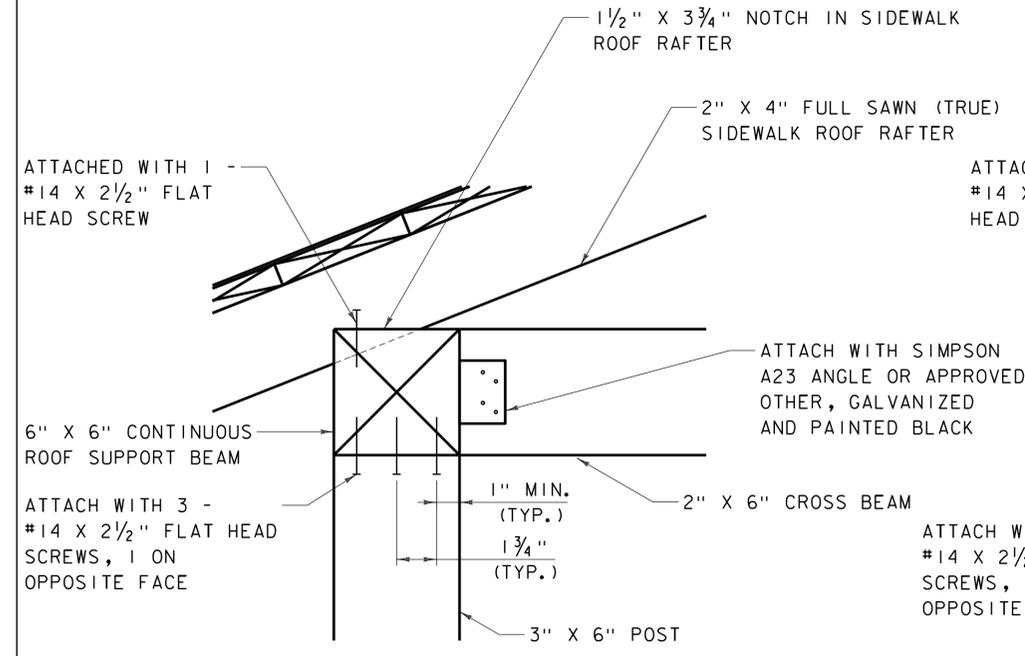
SHEET TITLE

TIMBER
CONNECTION
DETAILS

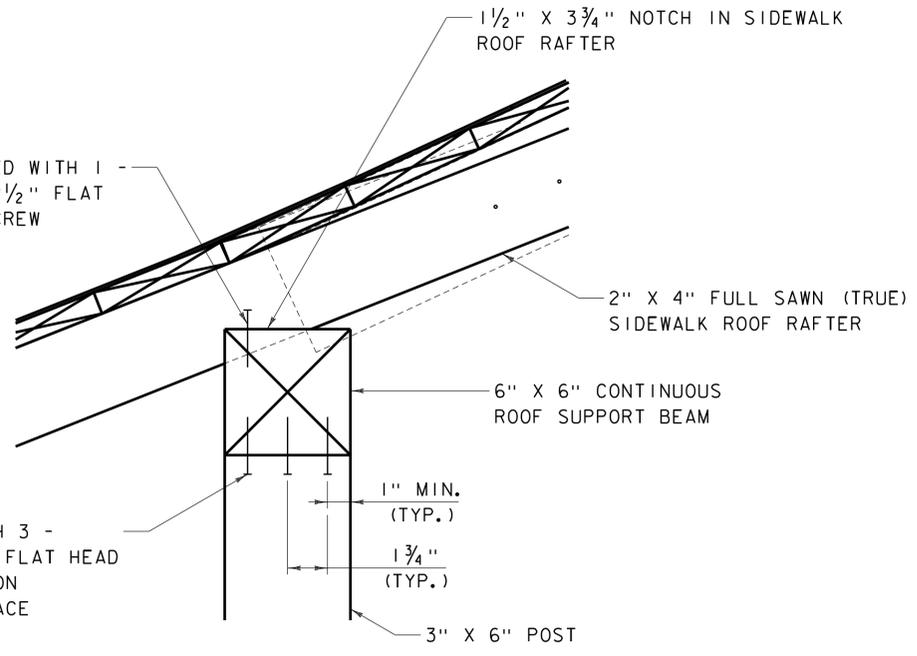
DRAWN BY	DATE
RHB/JDG	DEC. 2014
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RHD	620922
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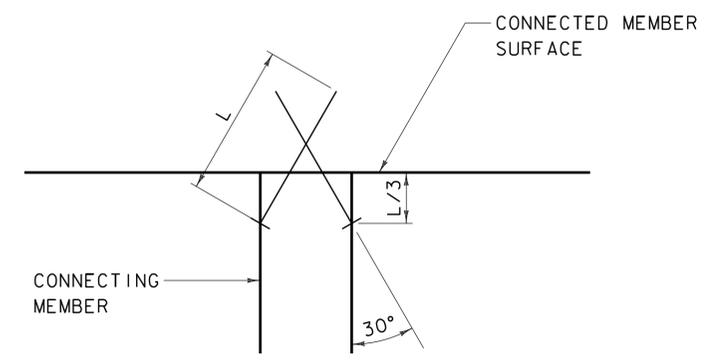
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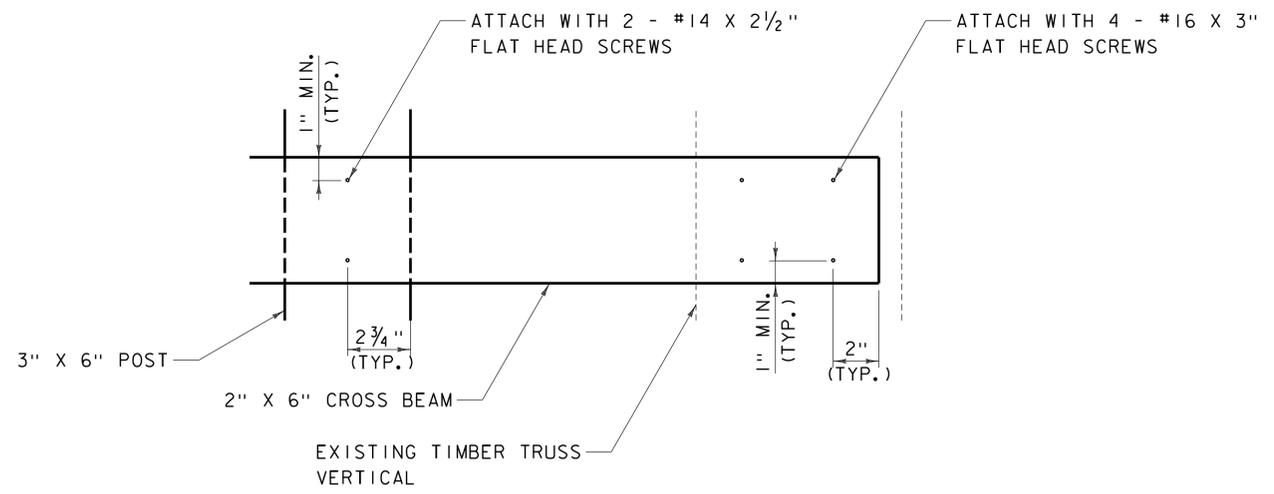
DETAIL A
SCALE: 3"=1'-0"



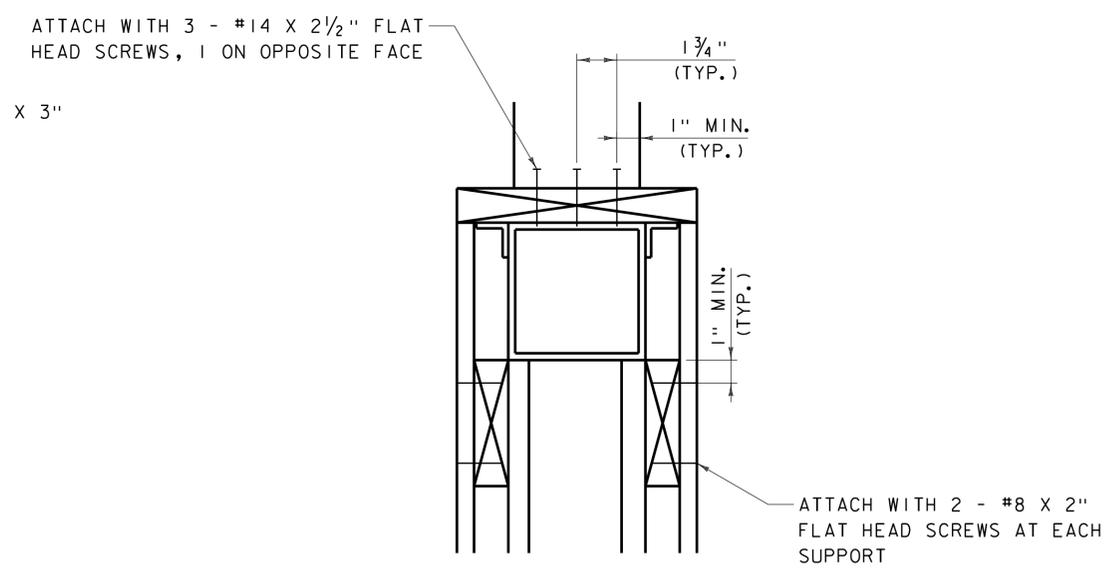
DETAIL B
SCALE: 3"=1'-0"



TOE-SCREW CONNECTION DETAIL
NOT TO SCALE



DETAIL C
SCALE: 3"=1'-0"



DETAIL D
SCALE: 3"=1'-0"

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (GPS)

CONTRACT PLANS

NO.	DATE	BY	DESCRIPTION

TOWN OF
 WAITSFIELD
 9 BRIDGE STREET
 WAITSFIELD, VT

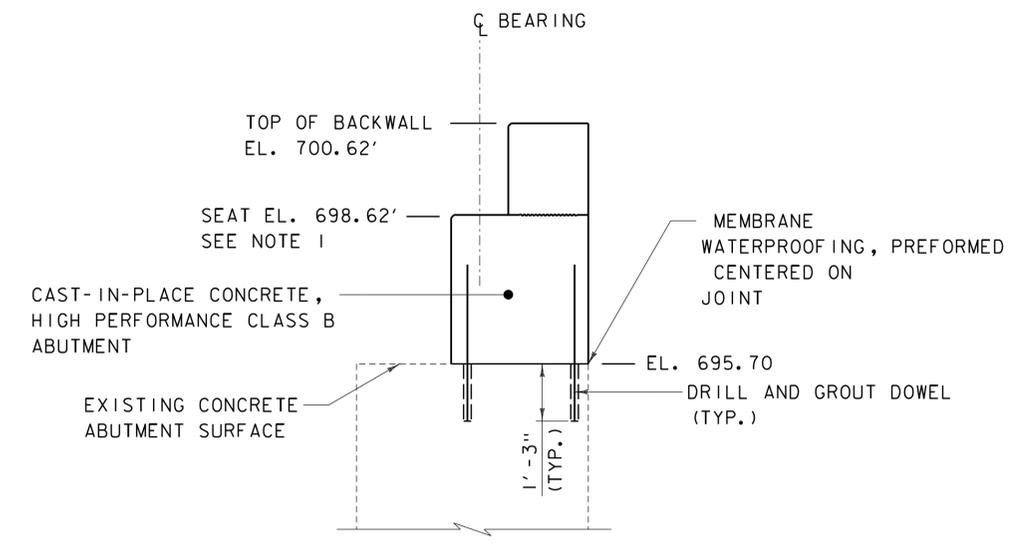
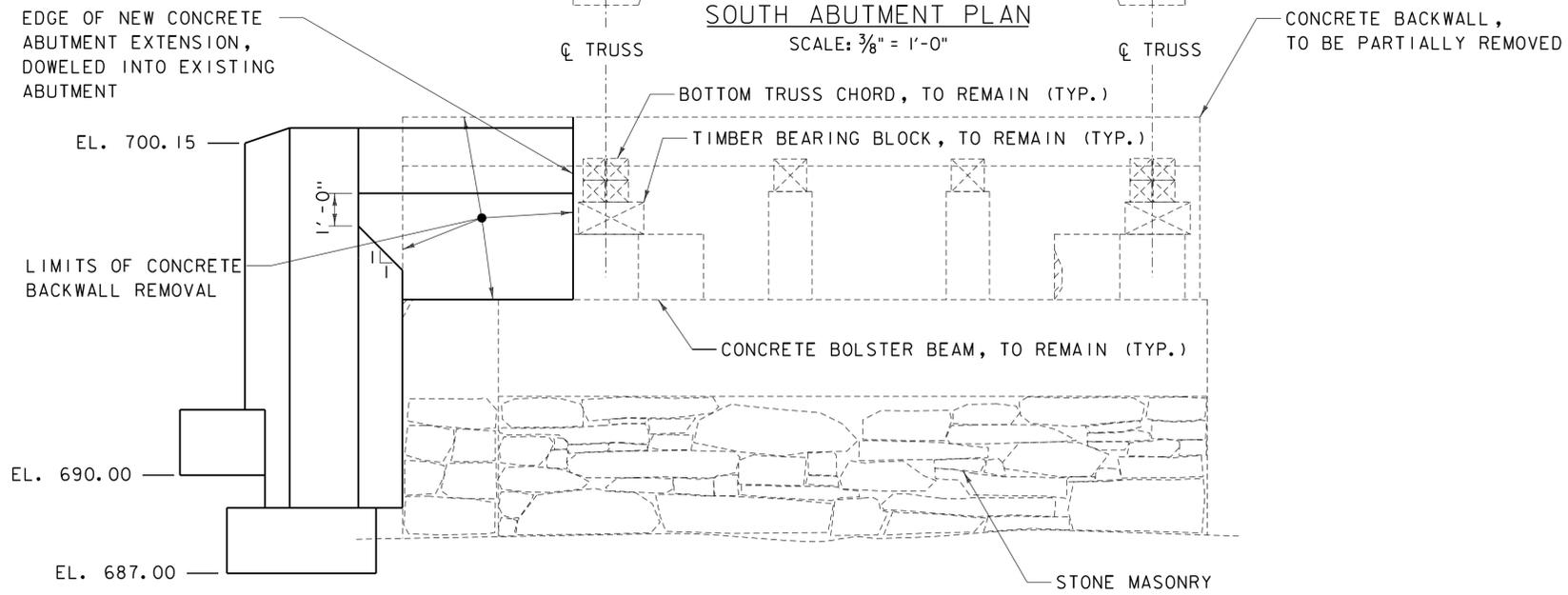
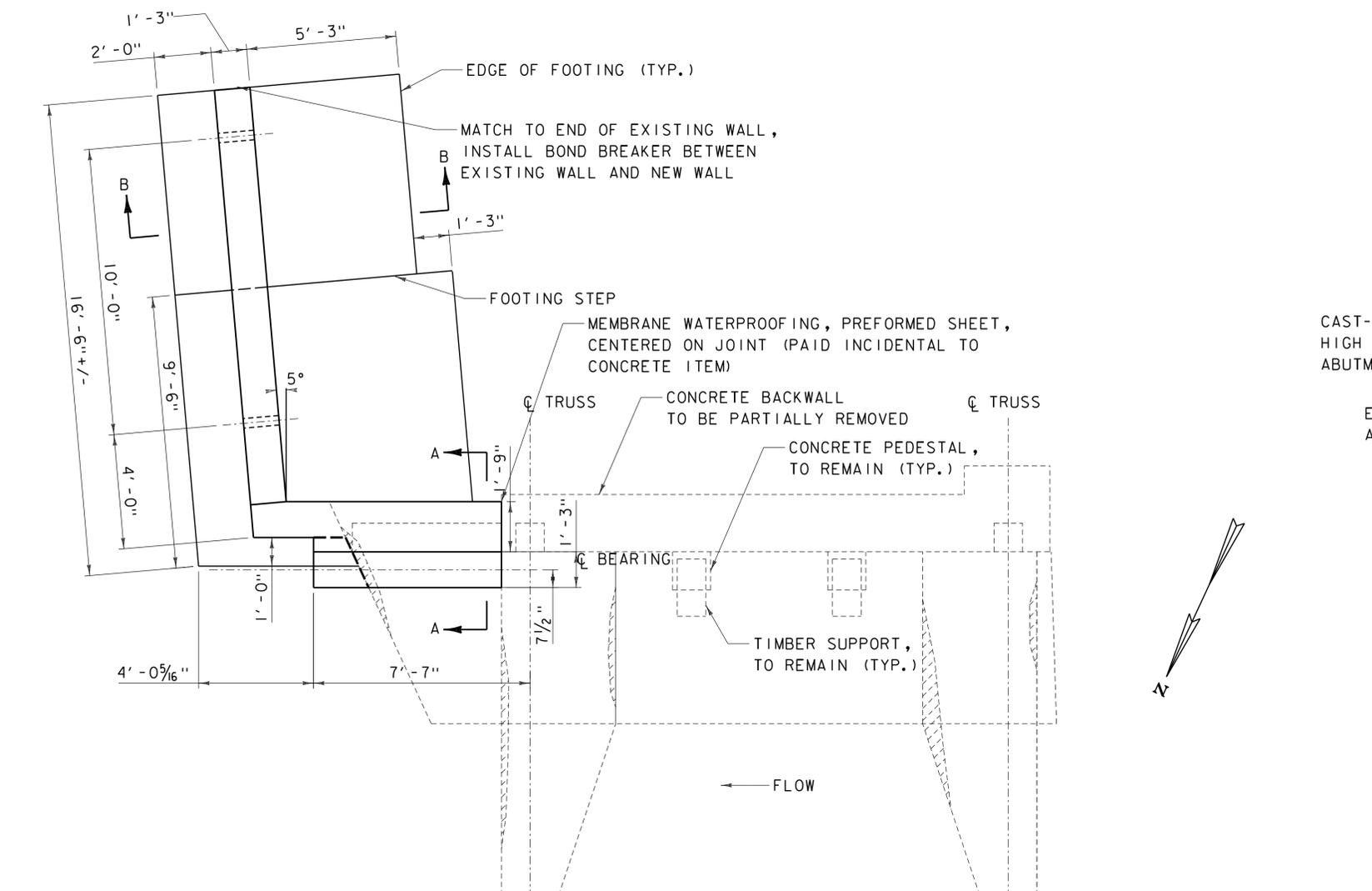
VILLAGE COVERED
 BRIDGE REHAB. &
 BRIDGE STREET
 STORMWATER
 IMPROVEMENTS

SHEET TITLE
 SOUTH ABUTMENT &
 SOUTHEAST
 WINGWALL
 MASONRY

DRAWN BY RHB/JDG	DATE DEC. 2014
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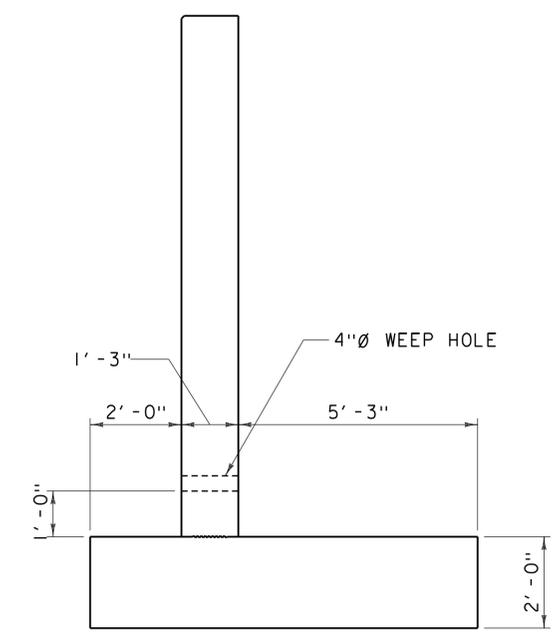
18



NOTES

- ELEVATION IS BASED ON A 2'-0" DEPTH OF SUPERSTRUCTURE AND BEARING FROM SIDEWALK GRADE TO BRIDGE SEAT. IF A DIFFERENT DEPTH OF SUPERSTRUCTURE AND BEARING IS USED, ADJUST THIS ELEVATION ACCORDINGLY, WHILE MAINTAINING A LOW CHORD NO LOWER THAN EL. 698.95.
- REFER TO SHEET 4, CONCRETE REPAIR NOTES FOR CONCRETE REPAIR INFORMATION.

= APPROX. DETERIORATED OR SPALLED CONCRETE AREA



I:\E20922 - Waitsfield\DESIGN\CADD FILES\E20922.SUB.dgn

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (GPS)

PROFESSIONAL SEAL

CONTRACT PLANS

NO.	DATE	DESCRIPTION	BY	DATE

TOWN OF
 WAITSFIELD
 9 BRIDGE STREET
 WAITSFIELD, VT

VILLAGE COVERED
 BRIDGE REHAB. &
 BRIDGE STREET
 STORMWATER
 IMPROVEMENTS

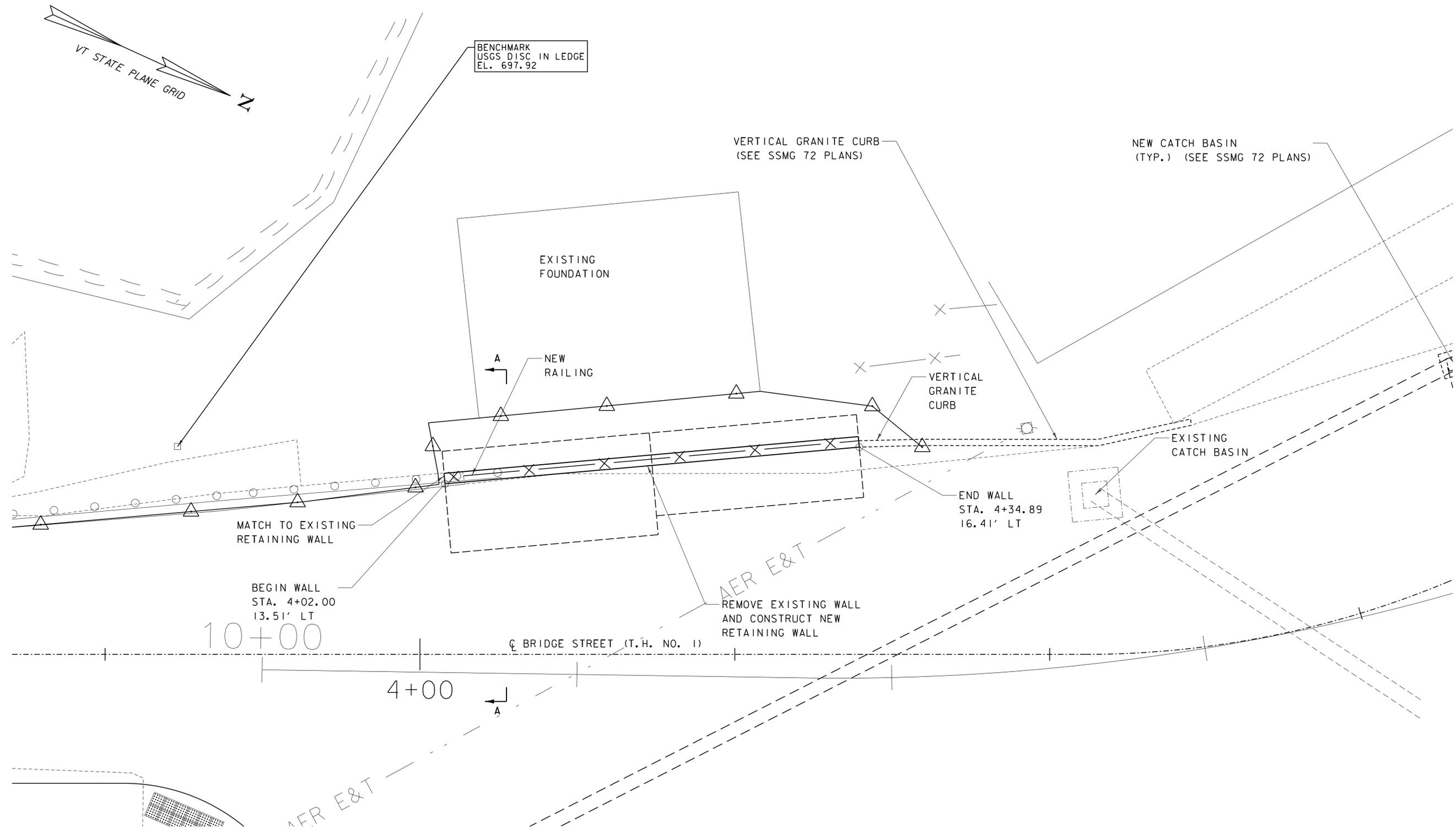
SHEET TITLE

 BRIDGE STREET
 NORTHWEST
 RETAINING WALL -
 LAYOUT SHEET

DRAWN BY RHB/JDG	DATE DEC. 2014
CHECKED BY EPD	DBK PROJECT # 620922
PROJ. ENG. RHB	DBK ARCHIVE # 620922

SHEET NUMBER

21

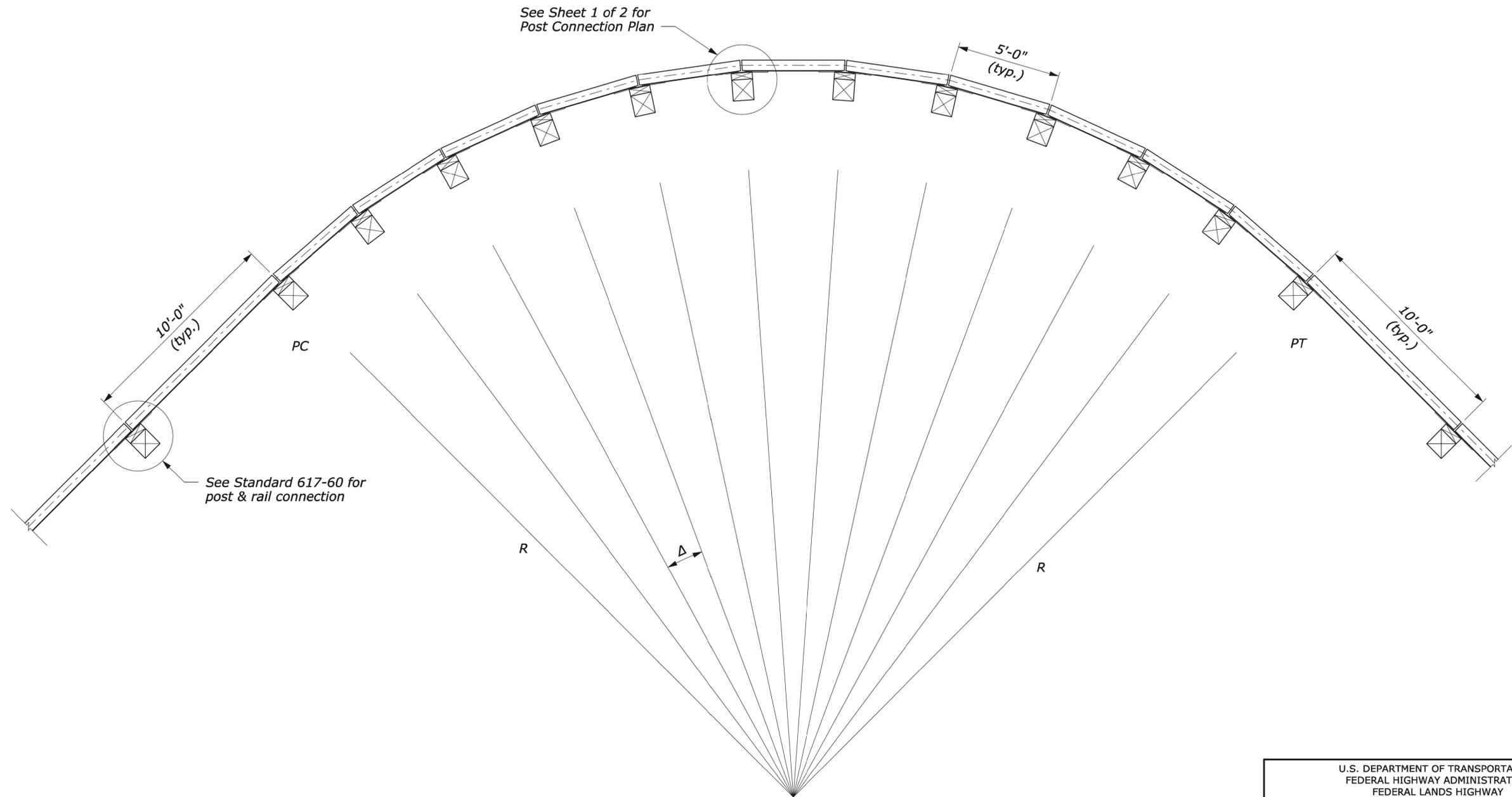


LAYOUT
 SCALE 1/4" = 1'-0"
 1 0 2 4 6

DATUM
 VERTICAL NAVD 88
 HORIZONTAL NAD 83 (GPS)

NOTE:

1. Δ is the central angle which subtends a 5'-0" chord.
2. R is measured from the center of the circle to the back surface of the rough sawn timber rail.



PLAN VIEW LAYOUT

DuBois & King inc.
SHEET 24 OF 30

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY	
U.S. CUSTOMARY STANDARD STEEL-BACKED TIMBER GUARDRAIL AROUND CIRCULAR CURVES 70 FOOT RADIUS AND BELOW Sheet 2 of 2	
STANDARD APPROVED FOR USE 6/2005	STANDARD
REVISED:	617-63

PROFESSIONAL SEAL

CONTRACT PLANS

NO.	DATE	DESCRIPTION	BY	CK'D
1	10/09/2013	CROSSWALK, STOP BAR AND LETTERING DETAILS ADDED	ZDC	

TOWN OF
 WAITSFIELD
 9 BRIDGE STREET
 WAITSFIELD, VT

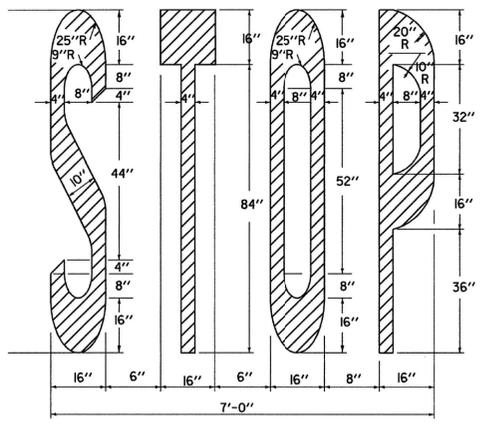
VILLAGE COVERED
 BRIDGE REHAB. &
 BRIDGE STREET
 STORMWATER
 IMPROVEMENTS

SHEET TITLE
 TYPICAL ROADWAY
 SECTION AND
 DETAILS

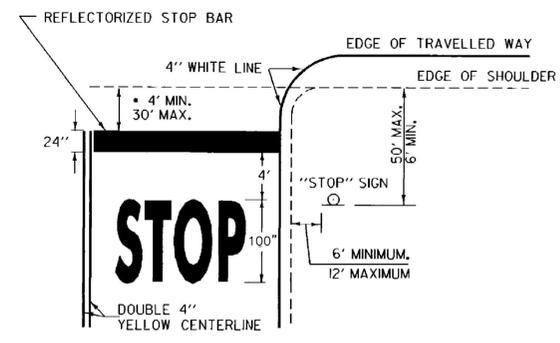
DRAWN BY ZDC	DATE MAY 2014
CHECKED BY HLV	D&K PROJECT # 121447
PROJ. ENG. HLV	D&K ARCHIVE #

SHEET NUMBER

25

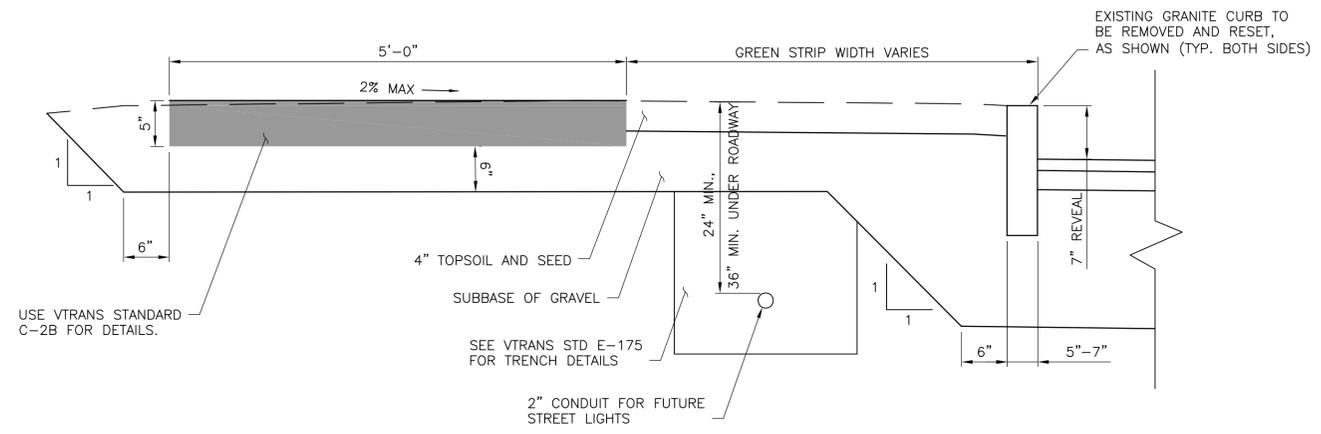


STOP LETTERING DETAIL
 NOT TO SCALE

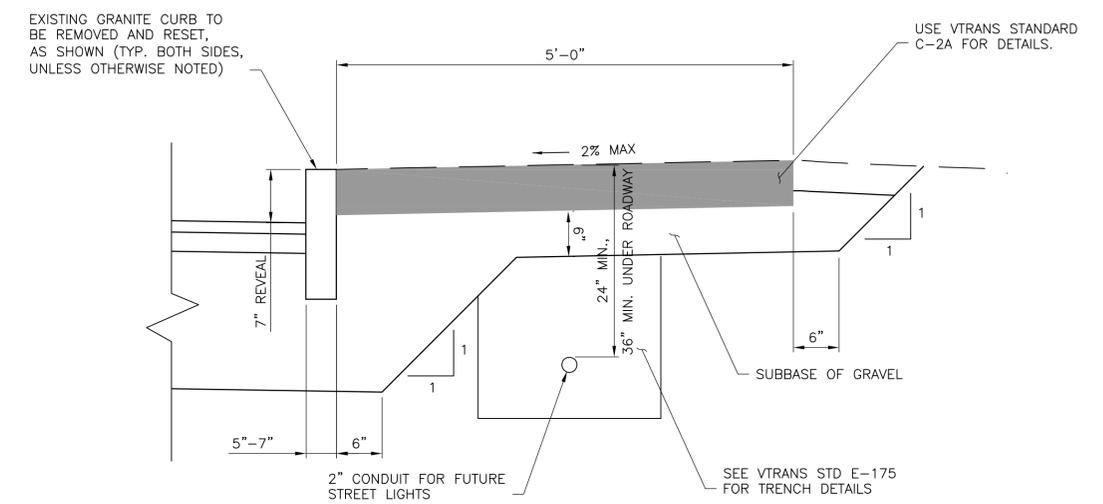


• THE "DESIRED STOPPING POINT" IS THE LOCATION BASED ON SITE CONDITIONS THAT BEST ALLOWS THE STOPPED VEHICLE TO VIEW THE APPROACHING TRAFFIC.

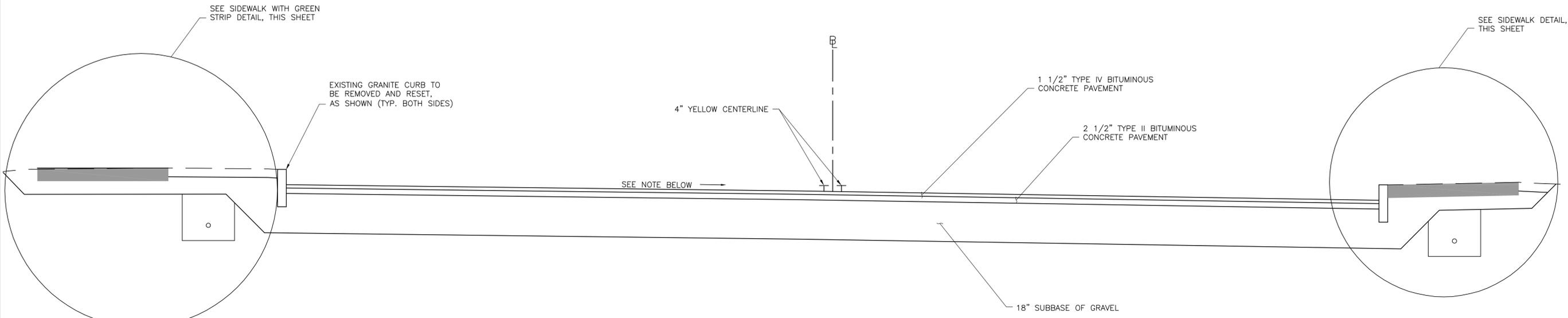
STOP BAR LAYOUT DETAIL
 NOT TO SCALE



CONCRETE SIDEWALK WITH GREEN STRIP DETAIL
 SCALE: 1" = 1'



CONCRETE SIDEWALK DETAIL
 SCALE: 1" = 1'



TYPICAL ROADWAY SECTION
 SCALE: 1/2" = 1'

NOTE:
 ACTUAL CROSS SLOPE AND ROADWAY CROWNING VARIES.
 SEE SHEET 26 AND 27 FOR SPECIFIC ELEVATIONS AND LOCATIONS.

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PROFESSIONAL SEAL

CONTRACT PLANS

NO.	DATE	DESCRIPTION	BY	CK'D

TOWN OF
 WAITSFIELD
 9 BRIDGE STREET
 WAITSFIELD, VT

VILLAGE COVERED
 BRIDGE REHAB. &
 BRIDGE STREET
 STORMWATER
 IMPROVEMENTS

SHEET TITLE

ROADWAY AND
 BASELINE LAYOUT
 PLAN

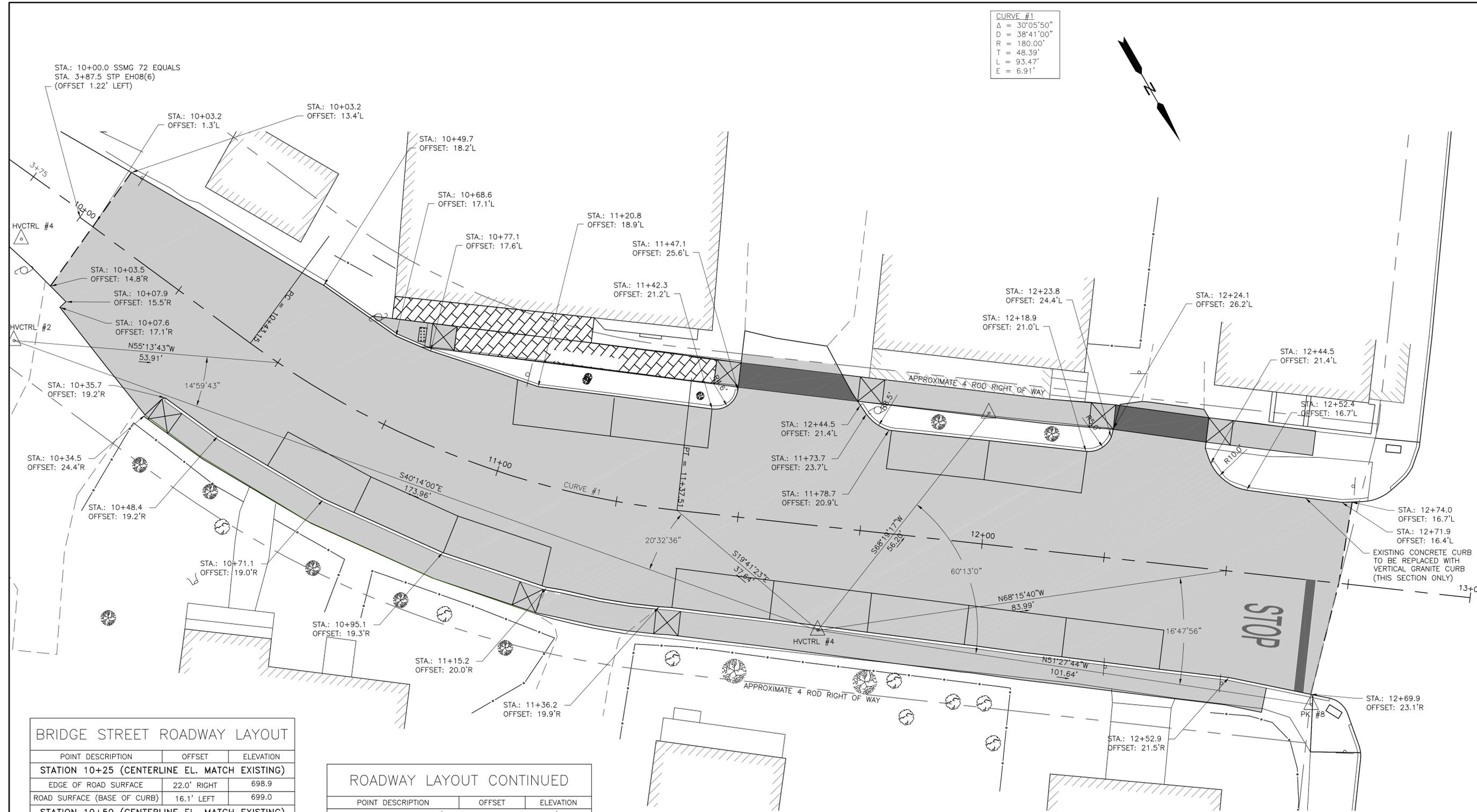
DRAWN BY ZDC	DATE MAY 2014
CHECKED BY HLV	D&K PROJECT # 121447
PROJ. ENG. HLV	D&K ARCHIVE #

SHEET NUMBER

26

SHEET 26 OF 30

CURVE #1
 Δ = 30°05'50"
 D = 38°41'00"
 R = 180.00'
 T = 48.39'
 L = 93.47'
 E = 6.91'



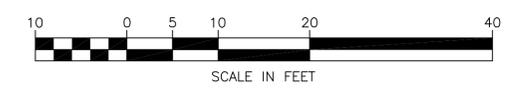
BRIDGE STREET ROADWAY LAYOUT

POINT DESCRIPTION	OFFSET	ELEVATION
STATION 10+25 (CENTERLINE EL. MATCH EXISTING)		
EDGE OF ROAD SURFACE	22.0' RIGHT	698.9
ROAD SURFACE (BASE OF CURB)	16.1' LEFT	699.0
STATION 10+50 (CENTERLINE EL. MATCH EXISTING)		
ROAD SURFACE (BASE OF CURB)	19.1' RIGHT	697.2
ROAD SURFACE (BASE OF CURB)	18.2' LEFT	697.3
STATION 10+75 (CENTERLINE EL. 696.82)		
ROAD SURFACE (END OF CURB)	17.5' LEFT	696.5
ROAD SURFACE (BASE OF CURB)	18.8' RIGHT	696.4
STATION 11+00 (CENTERLINE EL. 696.60)		
ROAD SURFACE (BASE OF CURB)	19.0' LEFT	696.2
ROAD SURFACE (BASE OF CURB)	19.2' RIGHT	696.2
STATION 11+25 (CENTERLINE EL. 696.72)		
ROAD SURFACE (BASE OF CURB)	21.2' LEFT	696.3
EDGE OF ROAD SURFACE	20.0' RIGHT	696.3
STATION 11+50 (CENTERLINE EL. 696.85)		
EDGE OF ROAD SURFACE	37.4' LEFT	697.5
ROAD SURFACE (BASE OF CURB)	19.9' RIGHT	696.6

ROADWAY LAYOUT CONTINUED

POINT DESCRIPTION	OFFSET	ELEVATION
STATION 11+75 (CENTERLINE EL. 696.97)		
ROAD SURFACE (BASE OF CURB)	22.5' LEFT	697.3
ROAD SURFACE (BASE OF CURB)	20.3' RIGHT	696.7
STATION 12+00 (CENTERLINE EL. 697.13)		
ROAD SURFACE (BASE OF CURB)	21.0' LEFT	697.5
ROAD SURFACE (BASE OF CURB)	20.7' RIGHT	696.8
STATION 12+25 (CENTERLINE EL. 697.64)		
EDGE OF ROAD SURFACE	31.3' LEFT	698.1
ROAD SURFACE (BASE OF CURB)	21.1' RIGHT	697.3
STATION 12+50 (CENTERLINE EL. 698.55)		
ROAD SURFACE (BASE OF CURB)	17.2' LEFT	698.8
ROAD SURFACE (BASE OF CURB)	21.5' RIGHT	698.2
STATION 12+74 (CENTERLINE EL. 699.81)		
ROAD SURFACE (BASE OF CURB)	16.7' LEFT	700.1
EDGE OF ROAD SURFACE	23.4' RIGHT	698.1

ROADWAY AND BASELINE LAYOUT PLAN



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CONTRACT PLANS

NO.	DATE	DESCRIPTION	BY	CK'D
1	10/09/2013	REVISED NEW SIDEWALK LIMITS, REMOVED CB#1 ZDC SCOPE & RENUMBER CBS ACCORDINGLY CROSSWALK, STOP BAR AND LETTERING ADDED		

**TOWN OF WAITSFIELD
 9 BRIDGE STREET
 WAITSFIELD, VT**

**VILLAGE COVERED
 BRIDGE REHAB. &
 BRIDGE STREET
 STORMWATER
 IMPROVEMENTS**

SHEET TITLE

**ROADWAY PLAN,
 PROFILE, AND
 DRAINAGE PLAN**

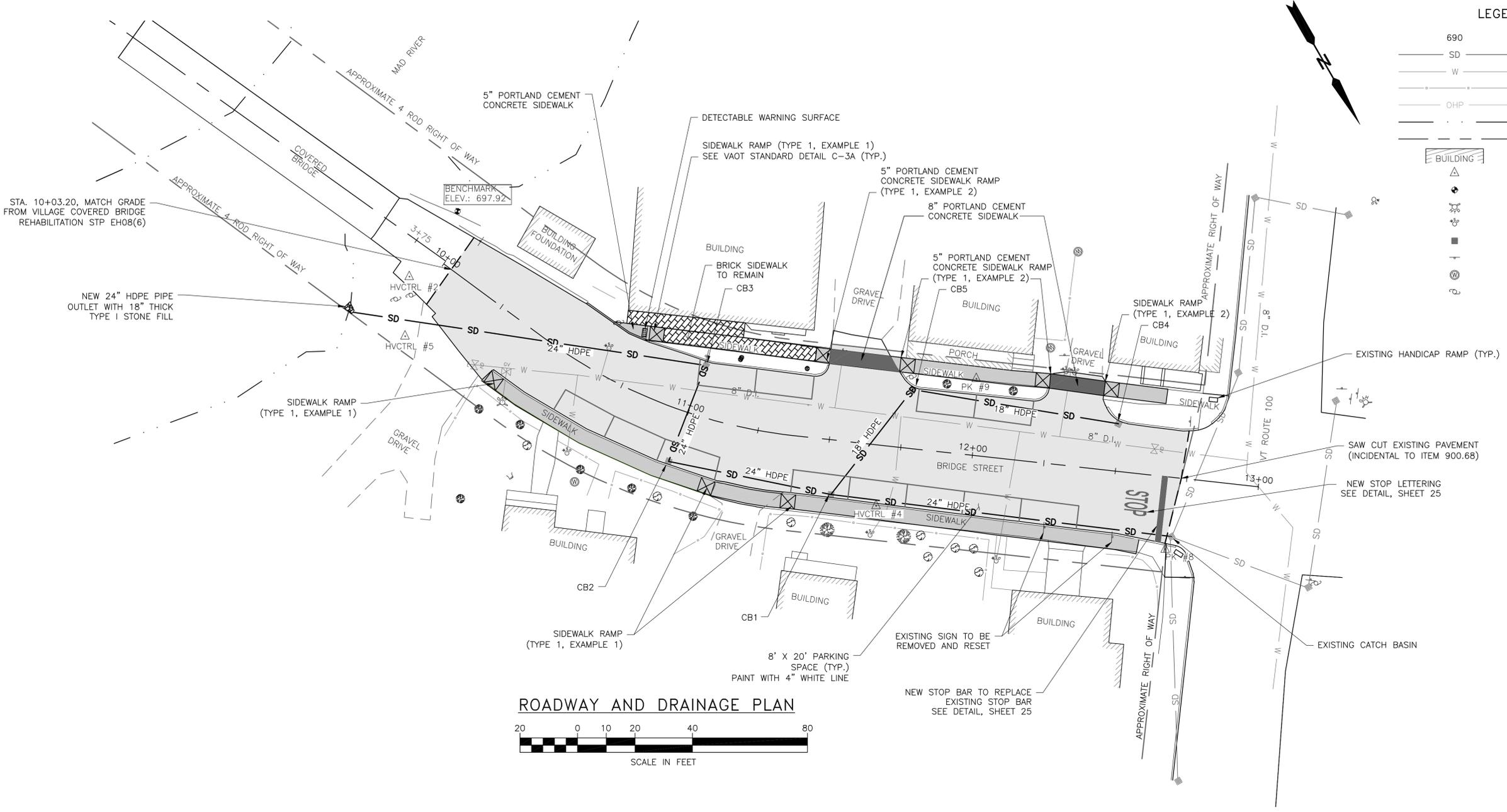
DRAWN BY: ZDC	DATE: MAY 2014
CHECKED BY: HLV	D&K PROJECT #: 121447
PROJ. ENG. HLV	D&K ARCHIVE #

SHEET NUMBER

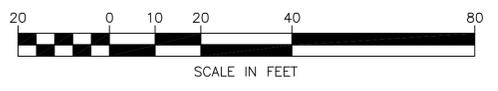
27

LEGEND

- 690 CONTOUR
- SD STORMDRAIN
- W WATER MAIN
- F FENCELINE
- OHP OVERHEAD POWER
- EOW EDGE OF WATER
- AROW APPROXIMATE RIGHT OF WAY
- BUILDING STRUCTURE
- SP SURVEY CONTROL POINT
- BENCHMARK
- H DRANT
- WS WATER SHUTOFF
- CB CATCHBASIN
- S SIGN
- W WELL
- U UTILITY POLE



ROADWAY AND DRAINAGE PLAN



LOW POINT ELEV = 696.60
 LOW POINT STA = 10+97.44
 PVI STA = 10+78.20
 PVI ELEV = 696.49
 A.D. = 4.32
 K = 11.59

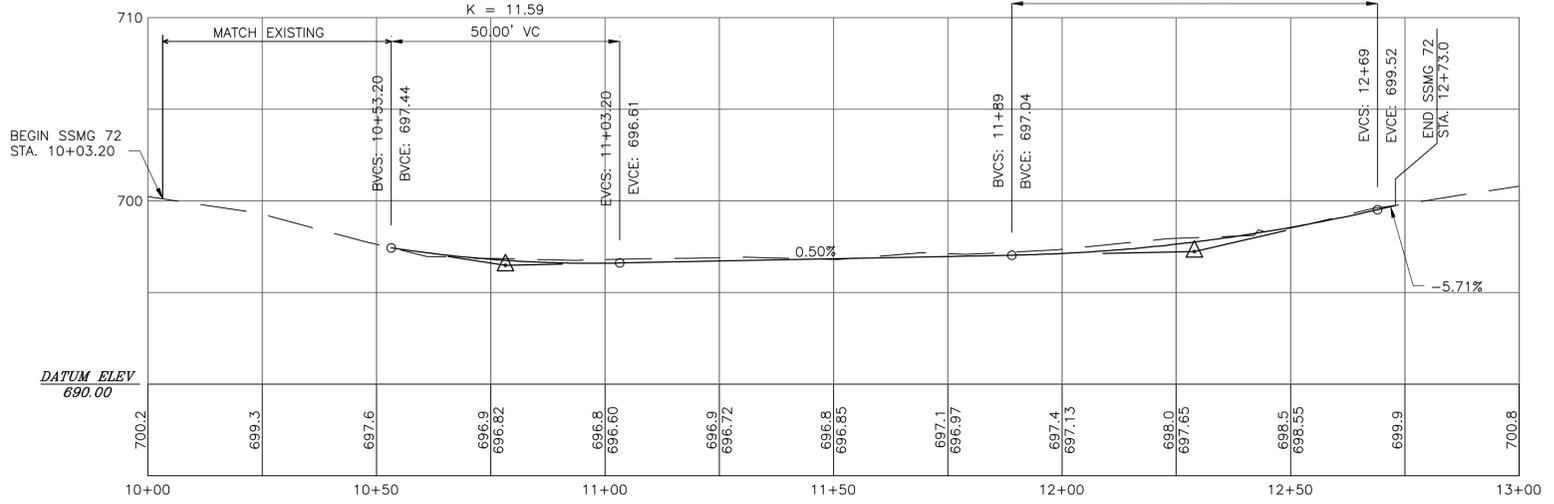
PVI STA = 12+29
 PVI ELEV = 697.24
 A.D. = 5.21
 K = 15.37
 80.00' VC

NEW CATCHBASIN LAYOUT

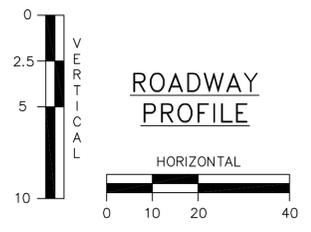
CATCHBASIN #	RIM ELEV.	STATION	OFFSET	SUMP DEPTH
CB1	696.3	11+52.64	18.89' RIGHT	24"
CB2	696.2	10+98.87	18.20' RIGHT	24"
CB3	696.2	11+00.70	17.44' LEFT	18"
CB4	698.8	12+49.24	16.40' LEFT	18"
CB5	697.2	11+76.85	20.38' LEFT	18"

NOTES:

- SEE SHEET 29 FOR STORMDRAIN INVERT ELEVATIONS.
- ALL SIDEWALKS SHALL BE 5" THICKNESS UNLESS OTHERWISE NOTED.
- ALL EXISTING AND PROPOSED CATCHBASINS WITHIN THE LIMITS OF WORK SHALL HAVE INLET PROTECTION DEVICES.
- SILT FENCE SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.



ROADWAY PROFILE



CONTRACT PLANS

NO.	DATE	DESCRIPTION	BY	CK'D

TOWN OF
WAITSFIELD
9 BRIDGE STREET
WAITSFIELD, VT

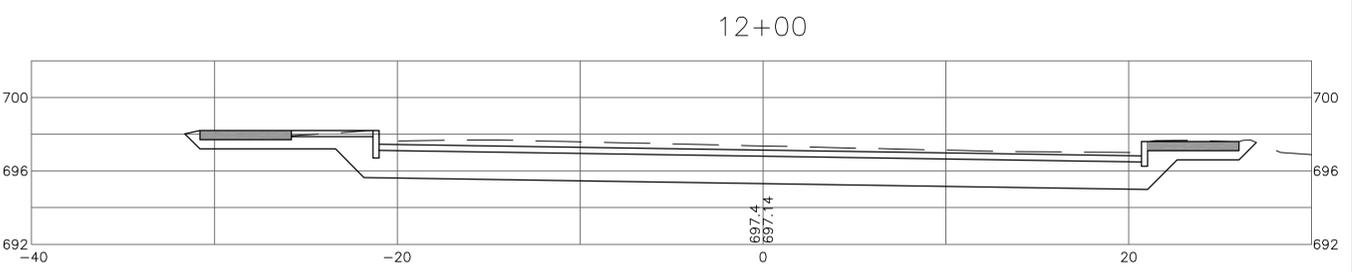
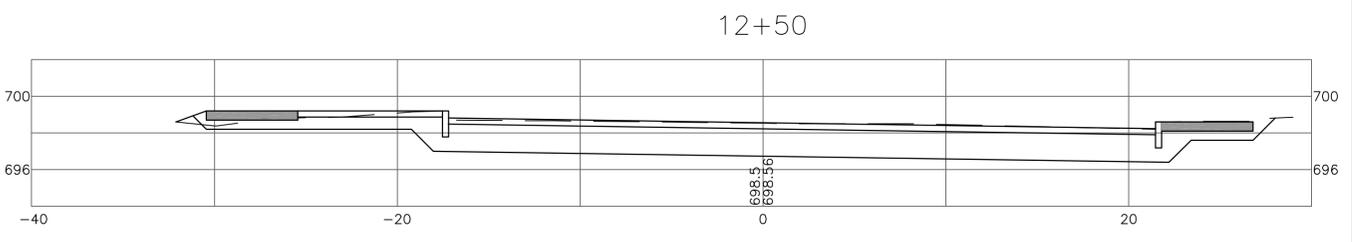
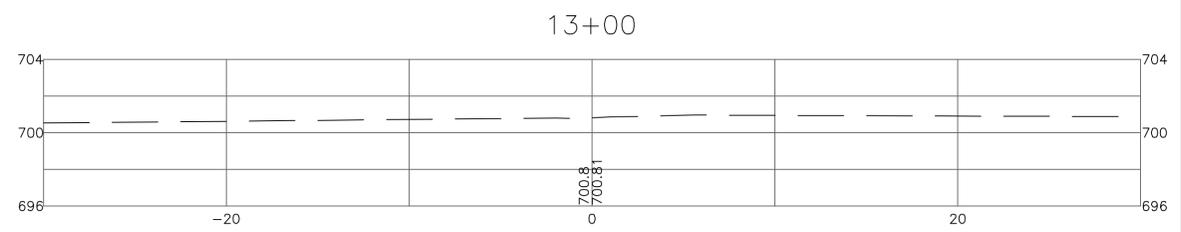
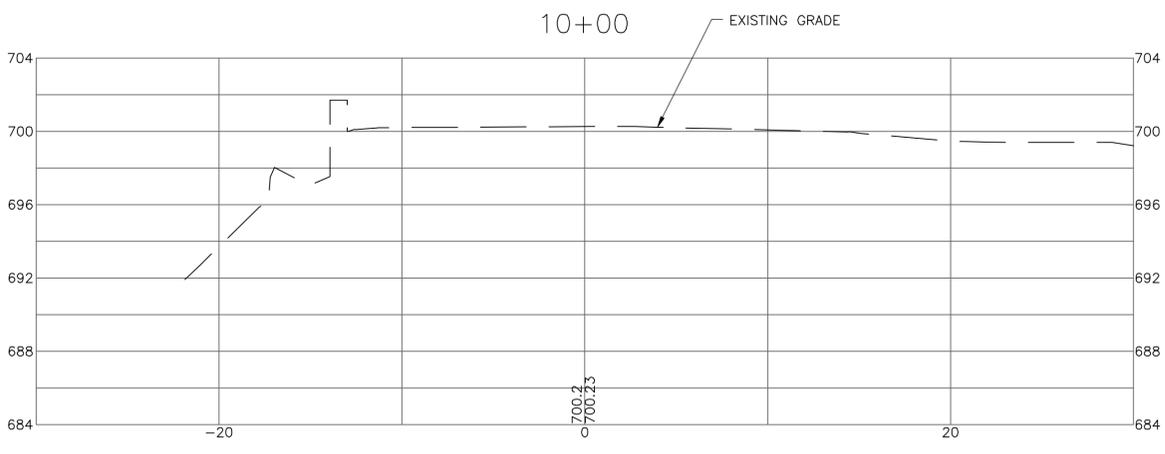
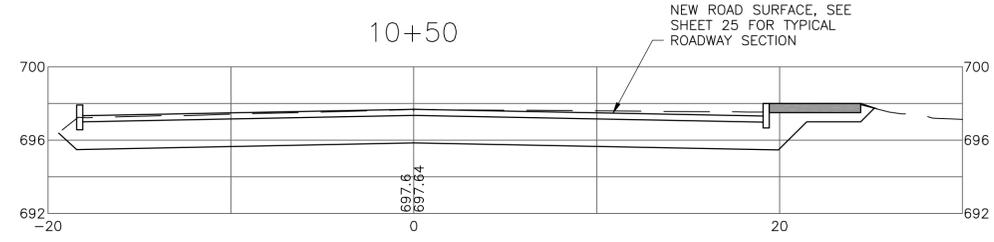
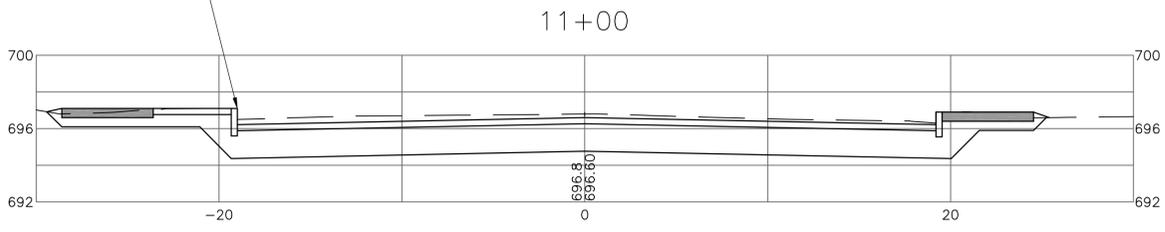
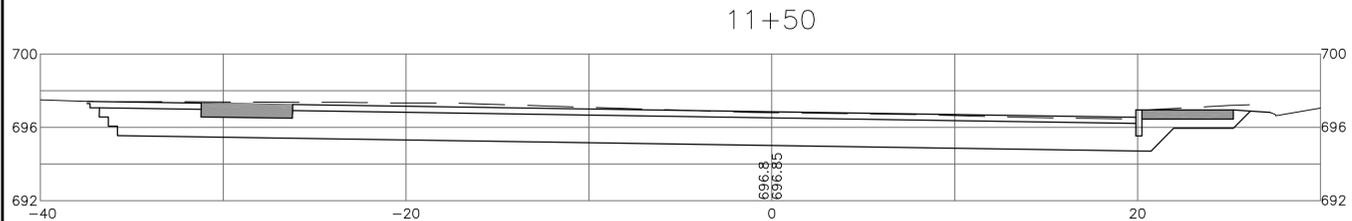
VILLAGE COVERED
BRIDGE REHAB. &
BRIDGE STREET
STORMWATER
IMPROVEMENTS

SHEET TITLE
ROADWAY CROSS SECTIONS

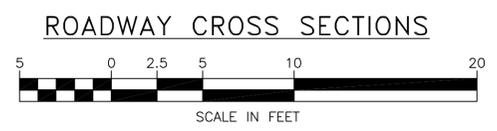
DRAWN BY ZDC	DATE MAY 2014
CHECKED BY HLV	D&K PROJECT # 121447
PROJ. ENG. HLV	D&K ARCHIVE #

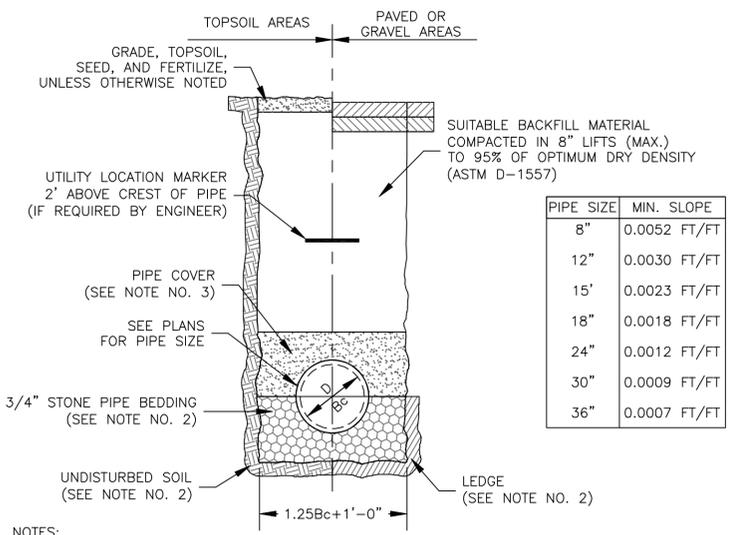
SHEET NUMBER

28



NOTE: FUTURE LIGHTING CONDUIT AND TRENCH NOT SHOWN ON CROSS SECTIONS.

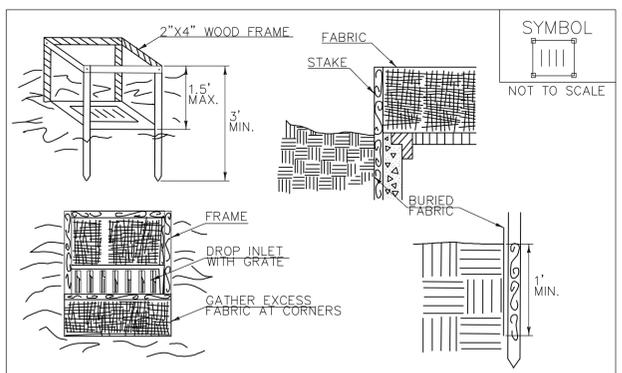




PIPE SIZE	MIN. SLOPE
8"	0.0052 FT/FT
12"	0.0030 FT/FT
15"	0.0023 FT/FT
18"	0.0018 FT/FT
24"	0.0012 FT/FT
30"	0.0009 FT/FT
36"	0.0007 FT/FT

- NOTES:**
1. ALL EXCAVATION MUST MEET OSHA STANDARDS.
 2. BEDDING MATERIAL SHALL BE FULL WIDTH OF TRENCH. BEDDING MATERIAL SHALL BE 6" BELOW PIPE (IN EARTH) OR 12" BELOW PIPE (IN LEDGE) UP TO SPRING LINE OF PIPE.
 3. PIPE COVER MATERIAL SHALL BE FULL WIDTH OF TRENCH FROM SPRING LINE UP TO 12" (MINIMUM) ABOVE CREST OF PIPE. [PIPE COVER MATERIAL SHALL BE SCREENED SAND] IF REINFORCED CONCRETE PIPE (RCP) IS USED, SAND COVER MATERIAL MAY BE EXCHANGED FOR NON-ORGANIC MATERIAL THAT CONTAINS NO STONES LARGER THAN 3" IN DIAMETER.
 4. STORM DRAIN LAYOUT PLAN PIPE SLOPES SHALL GOVERN OVER MINIMUM PIPE SLOPE SCHEDULE.

CULVERT AND STORM DRAIN PIPE TRENCH DETAIL
NOT TO SCALE



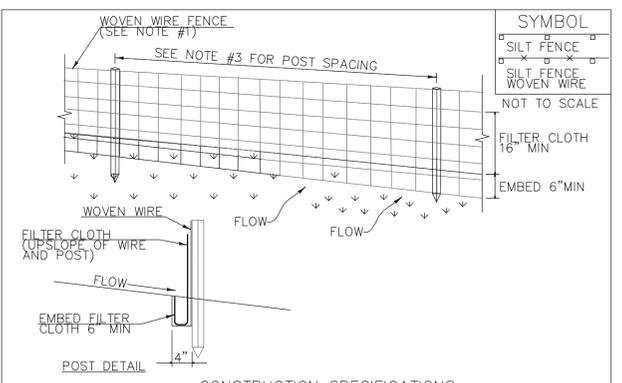
- CONSTRUCTION SPECIFICATIONS**
1. FILTER FABRIC SHALL HAVE AN APPARENT OPENING SIZE OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
 2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
 3. STAKE MATERIALS WILL BE STANDARD 2"x 4" WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3'.
 4. SPACE STAKES EVENLY AROUND INLET 3' APART AND DRIVE A MINIMUM 18" DEEP. SPANS GREATER THAN 3' MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
 5. FABRIC SHALL BE EMBEDDED 1' MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
 6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.
 7. MAXIMUM DRAINAGE AREA 1 ACRE

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

FILTER FABRIC DROP INLET PROTECTION

REVISIONS	
MARCH 7, 2008	WHF
JANUARY 13, 2009	WHF

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).



- 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, MIRAF1100X, 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

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

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 649.51S).

VAOT RURAL AREA MIX

% 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

% 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

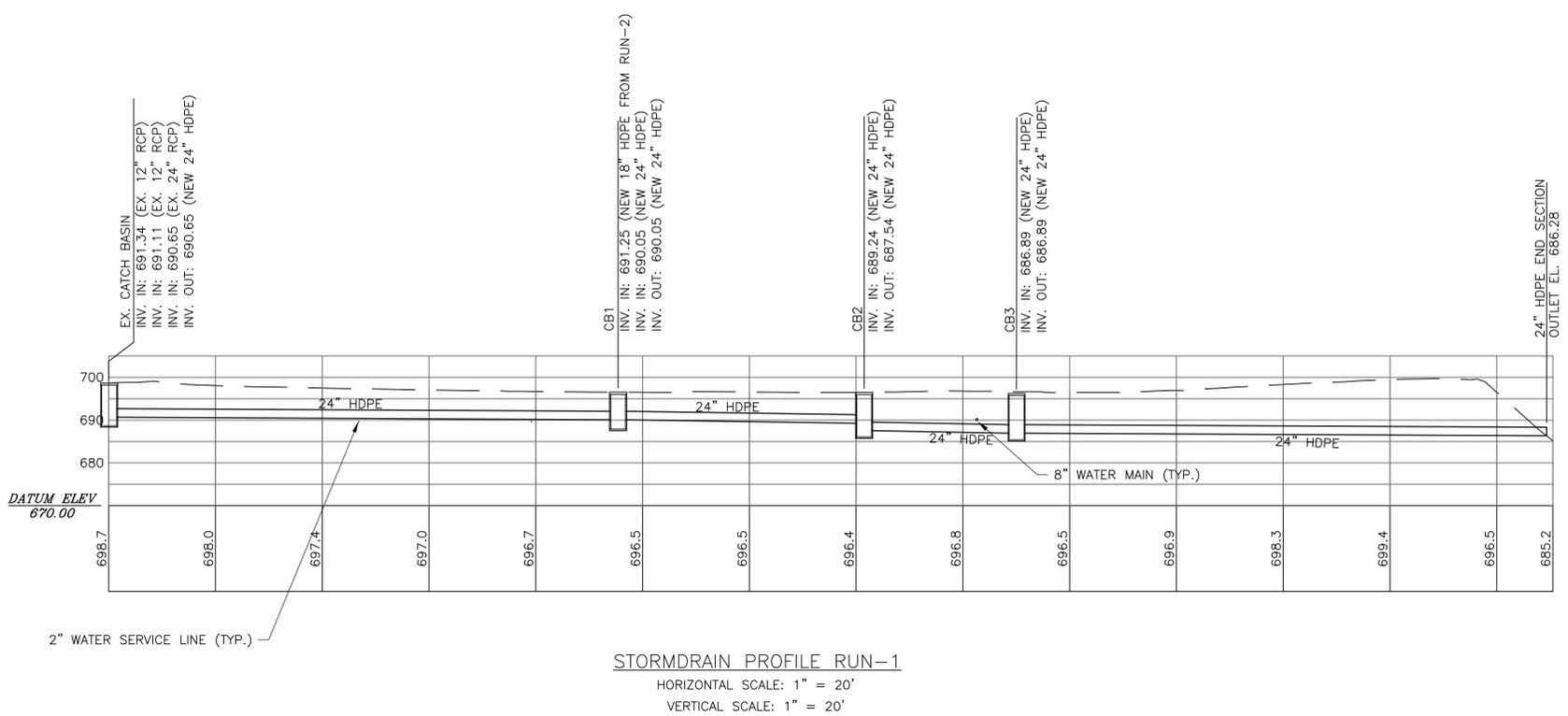
FERTILIZER		LIME	
BROADCAST	HYDROSEED	BROADCAST	HYDROSEED
10-20-10	FOLLOW	PELLETIZED	FOLLOW
500 LBS/AC	MANUFACTURER	2 TONS/AC	MANUFACTURER

- 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.

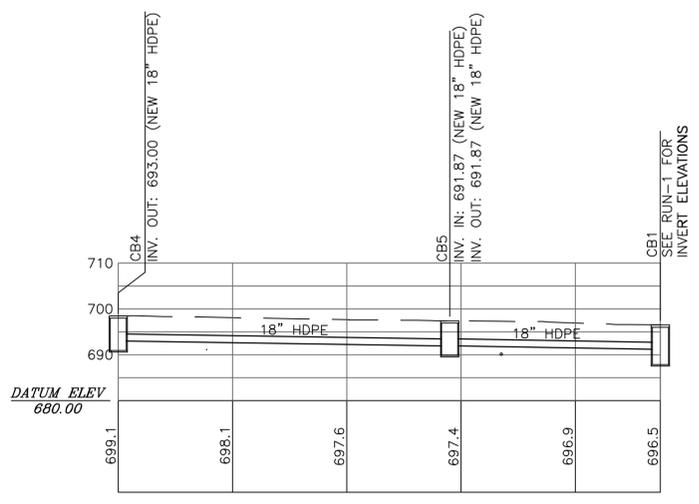
ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES

TURF ESTABLISHMENT

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



STORMDRAIN PROFILE RUN-1
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'



STORMDRAIN PROFILE RUN-2
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

DuBois & King inc.

ENGINEERING • PLANNING • MANAGEMENT • DEVELOPMENT

28 NORTH MAIN ST.
RANDOLPH, VT 05060
TEL: (802) 728-3376
FAX: (802) 728-4930
www.dubois-king.com

WILLISTON, VT
SPRINGFIELD, VT
BEDFORD, NH

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PROFESSIONAL SEAL

CONTRACT PLANS

NO.	DATE	DESCRIPTION	BY	CK'D
1	10/09/2013	REMOVED PROPOSED CB#1 FROM SCOPE OF WORK & RENUMBER CB'S ACCORDINGLY	ZDC	

TOWN OF WAITSFIELD
9 BRIDGE STREET
WAITSFIELD, VT

VILLAGE COVERED
BRIDGE REHAB. &
BRIDGE STREET
STORMWATER
IMPROVEMENTS

SHEET TITLE

**STORMDRAIN
PROFILE AND
MISCELLANEOUS
DETAILS**

DRAWN BY	DATE
ZDC	MAY 2014
CHECKED BY	D&K PROJECT #
HLV	121447
PROJ. ENG.	D&K ARCHIVE #
HLV	

SHEET NUMBER

29

SHEET 29 OF 30

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CONTRACT PLANS

NO.	DATE	DESCRIPTION	ZDC	BY	CK'D
1	10/09/2013	ELECTRICAL SITE PLAN ADDED			

TOWN OF
WAITSFIELD
9 BRIDGE STREET
WAITSFIELD, VT

VILLAGE COVERED
BRIDGE REHAB. &
BRIDGE STREET
STORMWATER
IMPROVEMENTS

SHEET TITLE

PROPOSED
ELECTRICAL SITE
PLAN

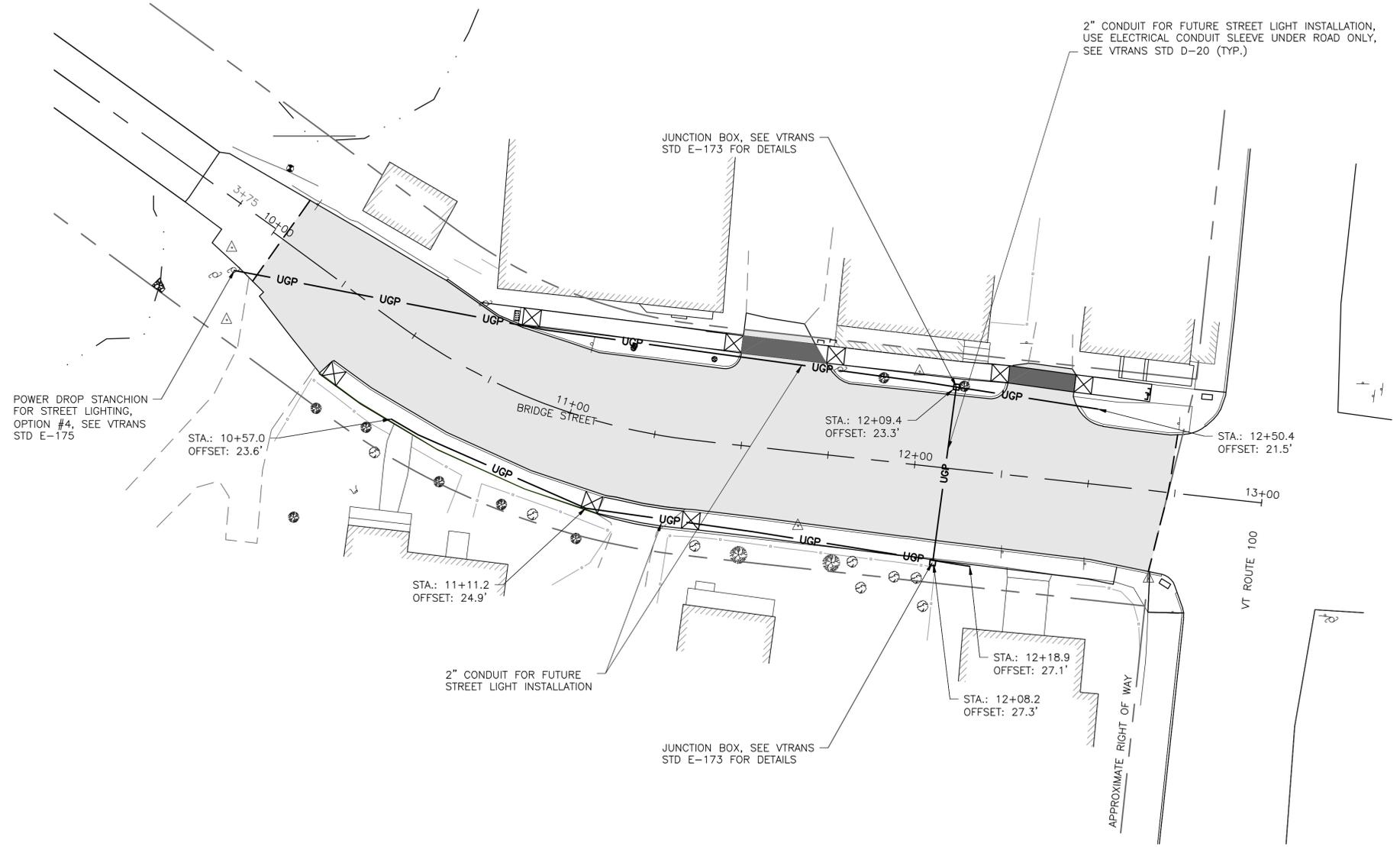
DRAWN BY ZDC	DATE MAY 2014
CHECKED BY HLV	D&K PROJECT # 121447
PROJ. ENG. HLV	D&K ARCHIVE #

SHEET NUMBER

30

LEGEND

- 690 CONTOUR
- SD STORMDRAIN
- W WATER MAIN
- FENCELINE
- OHP OVERHEAD POWER
- EDGE OF WATER
- APPROXIMATE RIGHT OF WAY
- BUILDING STRUCTURE
- △ SURVEY CONTROL POINT
- ⊕ BENCHMARK
- ⊕ HYDRANT
- ⊕ WATER SHUTOFF
- ⊕ CATCHBASIN
- ⊕ SIGN
- ⊕ WELL
- ⊕ UTILITY POLE
- UGP UNDERGROUND POWER
- UGT UNDERGROUND TELECOMMUNICATION
- ▭ STUB FOR FUTURE CONNECTION



NOTE:
1. UNDERGROUND CONDUIT TO BE INSTALLED IN ACCORDANCE WITH VTRANS STANDARD DETAILS E-175 AND D-20.

PROPOSED ELECTRICAL SITE PLAN

