

GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2001, AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SIXTEENTH EDITION, AND ITS LATEST REVISIONS.
2. THE BRIDGES AND THE ELEVATED WALKWAY ARE DESIGNED FOR N.D. LIVE LOAD. NO CONSTRUCTION EQUIPMENT WILL BE ALLOWED TO TRAVEL ON ANY OF THESE STRUCTURES.
3. CONSTRUCTION IN THE TOWN OF COLCHESTER AND DELTA PARK SHALL BE RESTRICTED TO NOVEMBER 1 THROUGH MARCH 15, EXCEPT THAT PAVING BETWEEN STATIONS 27+09 AND 28+62, WILL BE ALLOWED TO TAKE PLACE OUTSIDE OF THAT TIME FRAME.
4. CONSTRUCTION IN THE CITY OF BURLINGTON SHALL BE RESTRICTED TO NOVEMBER 1 TO APRIL 1, EXCEPT THAT PAVING BETWEEN STATIONS 2+00 AND 3+09, WILL BE ALLOWED TO TAKE PLACE OUTSIDE OF THAT TIME FRAME. CONSTRUCTION BETWEEN APRIL 1 AND NOVEMBER 1 MAY BE ALLOWED, IF THE CONTRACTOR OBTAINS WRITTEN AUTHORIZATION, IN ADVANCE, FROM THE CITY OF BURLINGTON.
5. THE BURLINGTON BIKE PATH, NORTH OF NORTH AVENUE EXTENSION, WILL BE CLOSED DURING THE CONSTRUCTION TIME OF NOVEMBER 1 TO APRIL 1. THE CONTRACTOR WILL NOTIFY THE CITY OF BURLINGTON TWO WEEKS PRIOR TO CLOSING THE BIKE PATH. WHEN THE CONSTRUCTION PROJECT IS CLOSED DOWN FOR THE SUMMER SEASON, THE CONTRACTOR SHALL LEAVE THE BURLINGTON BIKE PATH IN A SATISFACTORY CONDITION FOR THE TRAVELLING PUBLIC, WITH ANY NEEDED REPAIRS CONSIDERED SUBSIDIARY TO THE ITEM MOBILIZATION.
6. THERE WILL BE NO IN-STREAM WORK IN THE WINOOSKI RIVER.
7. CLEARING OF TREES WILL ONLY BE ALLOWED WITHIN THE CONSTRUCTION LIMITS SHOWN ON THE LAYOUT SHEETS. TREES TO BE REMOVED SHALL BE CUT OFF AT OR NEAR THE GROUND LINE. NO STUMP REMOVAL OR EXCAVATION OF ROOTS WILL BE ALLOWED. ANY TREES, LARGER THAN 8" IN DIAMETER, WITHIN THE CONSTRUCTION LIMITS, THAT CAN BE SAVED, WITHOUT COMPROMISING CONSTRUCTION, SHALL BE LEFT STANDING.
8. THE CONTRACTOR WILL NOTIFY THE TOWN OF COLCHESTER AND THE WINOOSKI VALLEY PARK DISTRICT TWO WEEKS PRIOR TO BEGINNING CONSTRUCTION IN DELTA PARK AND THE TOWN OF COLCHESTER.
9. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT SILTATION OR POLLUTION, ESPECIALLY THE DISCHARGE OF RAW CONCRETE, INTO ANY BROOK, STREAM OR RIVER.
10. THE COST OF ON-PROJECT TEMPORARY CONSTRUCTION SIGNS AND BARRICADES REQUIRED SHALL BE SUBSIDIARY TO THE ITEM MOBILIZATION.
11. THE FOLLOWING TABLE OF ALLOWABLE STRESSES AND WEIGHTS APPLY TO THESE PLANS FOR DESIGN PURPOSES:

STRUCTURAL STEEL, AASHTO M270/M270M			
F _y = 50,000 PSI			
CONCRETE, HIGH PERFORMANCE CLASS B:	F' _c = 3500 PSI	F _c = 1200 PSI	
REINFORCING STEEL:	F _t = 24,000 PSI	GRADE 60	
SOIL: UNIT WEIGHT	140 PCF		
CONCRETE FOR PRESTRESSED CONCRETE F' _c = 6000 PSI UNLESS OTHERWISE NOTED			
12. THE KEY IN CONCRETE CONSTRUCTION JOINTS SHALL BE MONOLITHIC AND CONTIGUOUS FOR THE FULL LENGTH OF THE JOINT. ANY UPWARD KEY SHALL BE PLACED INTEGRALLY WITH THE CONCRETE BELOW THE JOINT.
13. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" BY 1".
14. JOINTS AND SCORE MARKS IN CONCRETE SHALL BE CONSTRUCTED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
15. ALL REINFORCING STEEL SHALL BE DETAILED AND FABRICATED USING PROCEDURES AND TOLERANCES IN ACCORDANCE WITH APPLICABLE PUBLICATIONS OF THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
REINFORCING PLACEMENT TOLERANCES SHALL BE:
SPACING + - 1/4"
CLEARANCE + - 1/4"
16. MINIMUM COVER FOR REINFORCING STEEL SHALL BE TWO (2) INCHES ALONG THE BACK FACES OF WALLS AGAINST EARTH, AND THREE INCHES (3") ELSEWHERE, UNLESS OTHERWISE NOTED.
17. SURFACES OF BRIDGE SEATS UNDER BEARING DEVICES SHALL BE LEVEL, OTHER BRIDGE SEAT AREAS SHALL BE SLOPED 1/4" PER FOOT TOWARDS MID-SPAN. THE ENTIRE BRIDGE SEAT SURFACE SHALL BE SMOOTH STEEL TROWEL FINISHED.
18. WATER REPELLENT SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES EXCEPT FOR THE PRE-CAST FILES AND THE PRE-CAST CONCRETE WALKWAY UNITS.
19. FOOTING PRESSURE DESIGN:

ABUTMENT NO. 1	2.5 KSF
BATH ABUTMENT NO. 1	2.5 KSF
BATH ABUTMENT NO. 2	3.5 KSF
20. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68 DEGREE F UNLESS OTHERWISE NOTED.
21. ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED USING PROCEDURES AND TOLERANCES IN ACCORDANCE WITH APPLICABLE PUBLICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC). THE FABRICATOR FOR THE PRE-FABRICATED TRUSS BRIDGES SHALL BE ALSO CERTIFIED FOR MAJOR BRIDGES.
22. ANY CONNECTIONS THAT ARE NOT DETAILED ON THE PLANS SHALL BE DETAILED BY THE FABRICATOR AND SUBMITTED TO THE STRUCTURES ENGINEER FOR APPROVAL.
23. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF VERMONT SPECIFICATION 506.10.
24. ALL FIELD CONNECTIONS SHALL BE MADE AS DIRECTED BY THE TRUSS MANUFACTURER.
25. THE MINIMUM LOW STEEL ELEVATION FOR SPAN #2 SHALL BE 116.10. NO MATERIAL OF ANY KIND SHALL PROJEKT BELOW THIS ELEVATION BETWEEN STATIONS 4+30 AND 6+45.
26. THE REMOVAL AND/OR RESETTING OF TRAFFIC SIGNS, AS DEEMED NECESSARY BY THE RESIDENT ENGINEER, WILL BE CONSIDERED SUBSIDIARY TO MOBILIZATION.
27. NO BORINGS HAVE BEEN TAKEN ON THIS PROJECT. HAND AUGERS WERE TAKEN IN NOVEMBER OF 2001, AND ARE INCLUDED IN THIS SET OF PLANS. WE ANTICIPATE HAVING BORINGS COMPLETED PRIOR TO AWARDING THE CONTRACT. NO FILLING WILL BE ORDERED PRIOR TO OUR RECEIVING AND EVALUATING THOSE BORINGS. THE PILE LENGTHS GIVEN IN THE PLANS ARE ESTIMATES ONLY. THERE WILL BE NO PRICE ADJUSTMENT FOR CHANGES IN PILE LENGTH.
28. ALL SUBSTRUCTURE CONCRETE SHALL BE CONCRETE, HIGH PERFORMANCE CLASS B UNLESS OTHERWISE NOTED.
29. THE KIOSK THAT IS TO BE REMOVED FROM STA. 7+00, 26 FEET LEFT, WILL BE RESET AT "MAYNS LANDING", AT APPROXIMATELY STA. 2+80, 50 FEET RIGHT. THE FINAL LOCATION WILL BE DETERMINED BY PERSONNEL FROM WINOOSKI VALLEY PARK DISTRICT. THE KIOSK LOCATED AT STA. 27+75 RT. IS TO BE REMOVED AND RELOCATED PARTNER TO THE RIGHT. THE FINAL LOCATION WILL BE APPROVED BY THE WINOOSKI VALLEY PARK DISTRICT. PAYMENT ITEM 620.40, RELOCATE INFORMATION PLAZA, TYPE A (MOD.)
30. THE EXISTING OVERLOOK AT STATION 15+50, 25 FEET LEFT, IS TO BE REMOVED UNDER ITEM 529.15, REMOVAL OF STRUCTURE (MOD.) STA. 15+50. THE PRICE BID FOR THIS REMOVAL SHALL INCLUDE THE COST OF CUTTING OFF THE STRUCTURE AT GROUND ELEVATION, LOADING IT, AND TRANSPORTING IT, IN ONE PIECE, FROM DELTA PARK TO THE EHRAN ALLEN HOMESTEAD IN BURLINGTON, AND UNLOADING IT THERE. WINOOSKI VALLEY PARK DISTRICT PERSONNEL WILL PROVIDE A PLACE TO UNLOAD THE STRUCTURE.
31. THE EXISTING BOLLARD FENCES WHICH ARE LOCATED AT STA. 22+65, 28+85, AND 28+25 WILL BE REMOVED AND THE SALVAGED TIMBER WILL BE DELIVERED TO THE EHRAN ALLEN HOMESTEAD, AT A LOCATION TO BE DETERMINED BY THE WINOOSKI VALLEY PARK DISTRICT PERSONNEL. THE REMOVAL AND TRANSPORTATION OF THIS MATERIAL WILL BE PAID FOR UNDER ITEM 620.55, REMOVAL OF EXISTING FENCE.
32. THERE IS A BOULDER (FOSSIL ROCK) TO BE RELOCATED AS PART OF THIS PROJECT. IT IS LOCATED AT APPROXIMATELY STA. 9+10, 50 FEET LEFT. IT IS TO BE REMOVED AND CAREFULLY RELOCATED, BY LIFTING, NOT DRAGGING, TO THE COLCHESTER ENTRANCE OF DELTA PARK, AS DIRECTED BY WINOOSKI VALLEY PARK PERSONNEL. PAYMENT FOR THIS WORK WILL BE MADE UNDER PAY ITEM 616.40, REMOVING AND RESETTING CURB (MOD.)
33. THE PERSON TO CONTACT RELATIVE TO THESE RELOCATION ITEMS IS SETH COFFEY, PARK MANAGER, WINOOSKI VALLEY PARK DISTRICT. PHONE - 802-863-5744
34. THE EXISTING BOARDWALKS, AND RUBBERIZED MATS, WHICH BELONG TO THE WINOOSKI VALLEY PARK DISTRICT, MUST BE REMOVED BEFORE CONSTRUCTION STARTS. THE REMOVAL OF THESE BOARDWALKS IS THE RESPONSIBILITY OF THE WINOOSKI VALLEY PARK DISTRICT AND "LOCAL MOTION".
35. THE PLANK DECK ON THE PREFABRICATED TRUSS BRIDGE WILL BE SECURELY FASTENED DOWN, WITH A MINIMUM OF (24) FASTENERS PER PLANK. IN ADDITION, A GASKET SHALL BE USED WHERE THE PLANKING IS ATTACHED TO THE STEEL TRUSS, TO PREVENT EXCESSIVE VIBRATION AND NOISE. THE DECKING, GASKETS, FASTENERS, AND ALL LABOR AND EQUIPMENT NEEDED TO COMPLETE THIS WORK, WILL BE INCLUDED IN THE BID PRICE FOR MULTI-MODAL BRIDGE FOR 545.20 PREFABRICATED MULTI-MODAL BRIDGE.
36. A TEMPORARY ACCESS IS AVAILABLE THROUGH DELTA PARK AS SHOWN ON THE LAYOUT SHEETS. THE LIMITS OF CONSTRUCTION WITHIN DELTA PARK, WILL BE LINED ON BOTH SIDES WITH SNOW FENCE AS SHOWN ON THE LAYOUT SHEETS AND THE TYPICAL WALKWAY SECTION. NO EQUIPMENT OR PERSONNEL WILL BE ALLOWED OUTSIDE THE SNOW FENCE LIMITS UNLESS APPROVED, IN WRITING, BY THE RESIDENT ENGINEER.
37. DURING THE CONSTRUCTION SEASON (NOV. THRU MID MARCH), TWO 10 INCH GAPS WILL BE LEFT IN THE SNOW FENCE, ON BOTH SIDES OF THE CONSTRUCTION AREA. THESE WILL BE AT APPROXIMATELY STA. 15+00 AND 20+00.
38. DURING THE TIME WHEN NO CONSTRUCTION IS TAKING PLACE IN DELTA PARK (MID MARCH TO NOV.), ALL OF THE SNOW FENCE WILL BE TAKEN DOWN AND REMOVED FROM THE SITE. SNOW FENCE WILL AGAIN BE INSTALLED, AS SHOWN ON THE PLANS. PAYMENT FOR SNOW FENCE WILL BE MADE ONCE PER CONSTRUCTION SEASON. IF DAMAGE OCCURS TO THE SNOW FENCE DURING THE CONSTRUCTION SEASON, THE CONTRACTOR WILL IMMEDIATELY REPAIR OR REPLACE THE DAMAGED PARTS. PAYMENT FOR THIS REPAIR OR REPLACEMENT WILL NOT BE MADE DIRECTLY, AND WILL BE CONSIDERED SUBSIDIARY TO THE BID ITEM. WHEN THE PROJECT IS CLOSED DOWN FOR THE SUMMER SEASON, THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT AND STOCKPILED MATERIALS FROM THE SITE. RE-MOBILIZATION REQUIRED SHALL BE SUBSIDIARY TO THE ITEM MOBILIZATION.
39. NO FILL (TEMPORARY OR PERMANENT) CAN BE PLACED WITHIN THE TOWN OF COLCHESTER/ DELTA PARK, EXCEPT AS SHOWN ON THE PLANS, WITHOUT APPROVAL OF THE RESIDENT ENGINEER. ADDITIONALLY, NO SEEDING IS ALLOWED WITHIN THE TOWN OF COLCHESTER/ DELTA PARK.
40. FROM STA. 2+85 TO 3+09, AND STA. 26+65 TO 27+40 THE FENCING WILL BE 6'-0", BLACK, VINYL COATED, CHAIN LINK FENCE (MOD) (TOP BAR). PAYMENT FOR THE FENCE AND ALL HARDWARE EQUIPMENT AND LABOR NECESSARY FOR IT'S INSTALLATION WILL BE MADE UNDER ITEM 620.12, CHAIN-LINK FENCE, 6 FEET (MOD) (TOP BAR). ALL PIPE, HARDWARE, AND FABRIC WILL BE BLACK IN COLOR.
41. FROM STA. 8+76 TO 10+14.25 THE FENCING WILL BE 6'-0", BLACK, ANNOLED ALUMINUM FENCE, AS SHOWN ON SHEETS 55-59. A 6'-0" GATE WILL BE LOCATED AT STA. 10+00 LEFT. PAYMENT FOR THE MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR THIS INSTALLATION WILL BE MADE UNDER ITEMS 620.12, CHAIN-LINK FENCE, 6 FEET (MOD.); AND ITEM 620.16, GATE FOR CHAIN-LINK FENCE, 6 FEET (MOD.) RESPECTIVELY. TWO POSTS FOR THIS FENCE WILL BE MOUNTED ON TOP OF EXISTING CONCRETE AT THE COLCHESTER ABUTMENT. SIX POSTS WILL BE MOUNTED ON THE FACE OF THE CONCRETE AT THIS ABUTMENT. SEE SHEET 59 FOR DETAILS. ALL OF THIS WORK WILL BE INCLUDED IN THE PRICE BID FOR 620.12, CHAIN LINK FENCE, 6 FEET (MOD.) CHAIN LINK FENCE SHOP DRAWINGS SHALL BE SUBMITTED FOR ENGINEERS APPROVAL.
42. FROM STA. 10+14.25 TO 12+04.23 THE RAILING WILL BE 52 INCH HIGH ALUMINUM RAIL. ALL OTHER ALUMINUM RAILING WILL BE 42 INCHES HIGH. RAILING WILL BE PAID FOR UNDER ITEMS 626.1E, METAL HAND RAILING.
43. IMPERMEABLE SIGNS SUPPORTS, AND SIGN FRAMES, WILL BE PLACED ON THE OVERLOOK AT STA. 6+51.5 LEFT, ON THE PIER AT STA. 15+53.5 LEFT, AND AT STA. 3+63, 80 FEET RIGHT. PAYMENT FOR THIS WORK WILL BE UNDER ITEM 675.32, TUBULAR ALUMINUM SIGN POSTS (MOD). THE SIGNS THEMSELVES WILL BE PREPARED BY THE WINOOSKI VALLEY PARK DISTRICT. PURCHASED BY THE VERMONT AGENCY OF TRANSPORTATION AND GIVEN TO THE CONTRACTOR FOR INSTALLATION. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
44. BENCHES LOCATED ON THE SECOND SPAN OF THE PRE-FABRICATED MULTI-MODAL BRIDGE AND ON THE OVERLOOK AT STA. 15+71, WILL BE PAID FOR UNDER ITEM 658.20, REST AREA BENCH (MOD.).
45. THE BIKE RACK LOCATED AT 2+00 LEFT, WILL BE PAID FOR UNDER ITEM 658.20, REST AREA BENCH (MOD.).
46. THE EXISTING BRIDGE SPAN, FROM STA. 3+96 TO 4+26 SHALL BE REMOVED ABOVE BRIDGE SEAT ELEVATION, AND DISPOSED OF. ITEMS TO BE REMOVED ARE CHAIN LINK FENCE, 2" STEEL RAILING, PRESSURE TREATED DECKING AND FRAMING AND 5 STEEL BEAMS. THIS WORK SHALL BE PAID FOR UNDER ITEM 529.20, PARTIAL REMOVAL OF STRUCTURE (STA. 3+96) (MOD.). THE PAVEMENT AND CONCRETE ABUTMENT WILL NOT BE REMOVED.
47. THE EXISTING TIMBER WALL LOCATED AT STA. 8+90 TO 9+04 RIGHT SHALL BE REMOVED ABOVE EXISTING GROUND ELEVATION, AND DISPOSED OF. ITEMS TO BE REMOVED ARE STEEL SIGN POSTS AND TIMBER RAIL. THIS WORK SHALL BE PAID FOR UNDER ITEM 529.15, REMOVAL OF STRUCTURE (MOD.) (STA. 8+90).

PRECAST

48. PRESTRESSED PRECAST MEMBERS SHALL:
 - A) CONFORM TO SECTION 510. OF THE STANDARD SPECIFICATIONS, "PRESTRESSED CONCRETE"
 - B) HAVE THE ENDS OF THE PRESTRESSING STRANDS RECESSED AND GROUDED
 - C) USE CONCRETE WITH F'_c = 6000 PSI UNLESS OTHERWISE NOTED
 - D) USE CONCRETE WHICH CONTAINS AN APPROVED CORROSION INHIBITOR ADMIXTURE AT A DOSAGE RATE OF 4 GALLONS PER CUBIC YARD.
 - E) CONTAIN PRESTRESSING STRANDS WHICH ARE 0.6" IN DIAMETER, 270 KSI, LOW RELAXATION STEEL STRANDS, CONFORMING TO SECTION 713.06 OF THE STANDARD SPECIFICATIONS, PULLED TO 75% OF THEIR YIELD.

PROJECT NAME:	Burlington-Colchester		
PROJECT NUMBER:	STP BIKE (45)		
FILE NAME:	st132gncba.xls	PLOT DATE:	11/15/2002
PROJECT LEADER:	C. S. Keller	DRAWN BY:	M. Evans-Morgan
DESIGNED BY:	M. Evans-Morgan	CHECKED BY:	0
GENERAL NOTES SHEET #1		SHEET	30 OF 87