

WORKING POINT CONTROL			
LOCATION	STATION	NORTHING	EASTING
WP1	1920+62.50, 17.50' RT.	347206.9943	1665101.6719
WP2	1920+62.50, CL	347207.3408	1665084.1754
WP3	1920+62.50, 23.50' LT.	347207.8060	1665060.6800

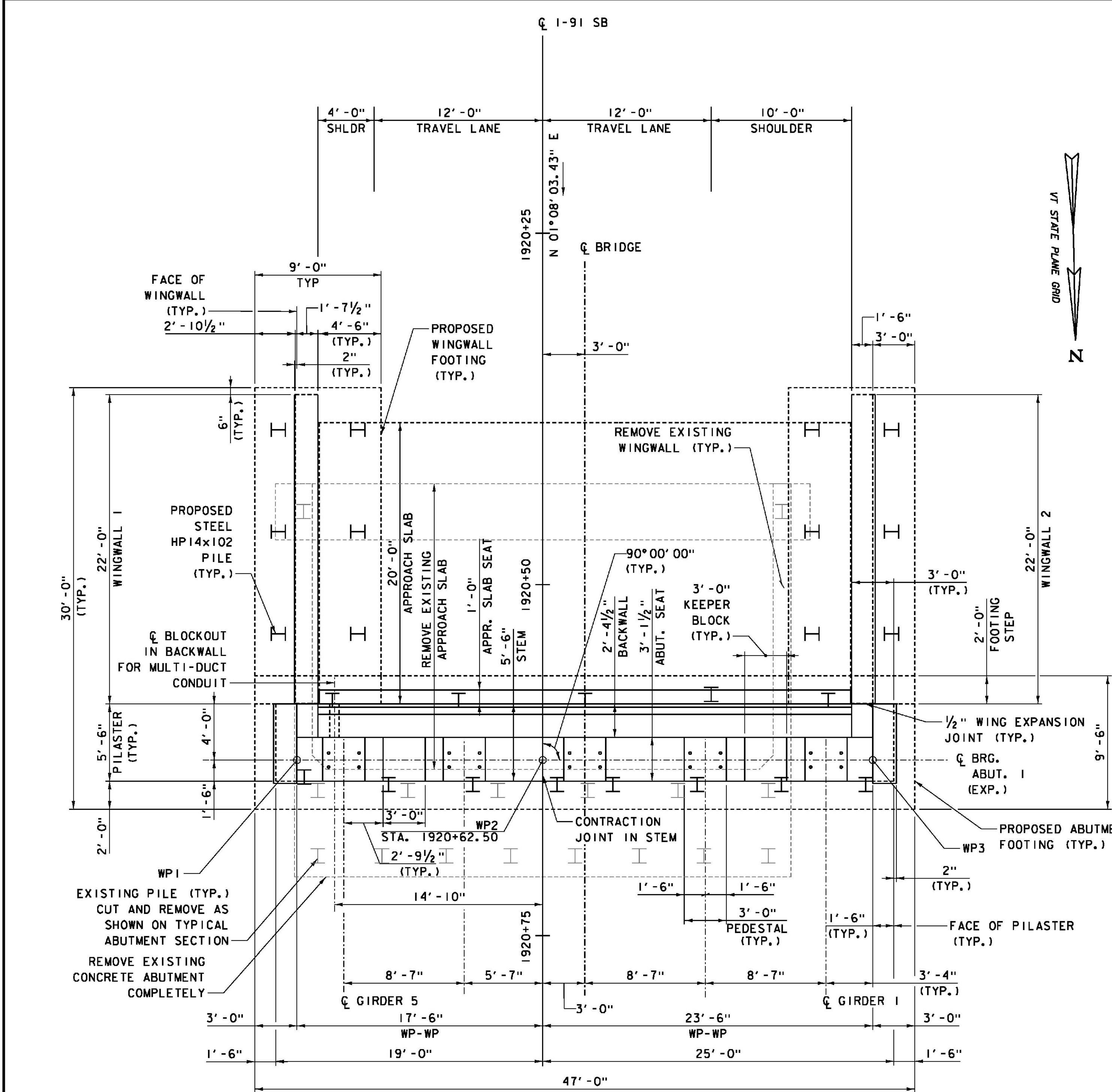
**SUBSTRUCTURE NOTES:**

1. CONCRETE IN THE ABUTMENT STEMS AND BACKWALLS AND WINGWALL STEMS SHALL BE HIGH PERFORMANCE CONCRETE, CLASS A, IN CONFORMANCE WITH THE APPROVED MIX DESIGN SUBMITTAL.
2. CONCRETE IN ALL FOOTINGS (INCLUDING UNREINFORCED CONCRETE ON LEVELED BEDROCK), COLUMNS AND PIER CAPS SHALL BE HIGH PERFORMANCE CONCRETE, CLASS B, IN CONFORMANCE WITH THE APPROVED MIX DESIGN SUBMITTAL.
3. CONCRETE IN THE F-SHAPE BARRIER AND BARRIER TRANSITION ATOP WINGWALLS SHALL BE HIGH PERFORMANCE CONCRETE, LOW SHRINKAGE, IN CONFORMANCE WITH THE APPROVED MIX DESIGN SUBMITTAL.
4. REINFORCING STEEL IN THE CAST-IN-PLACE F-SHAPE BARRIER AND BARRIER TRANSITION SHALL BE STAINLESS STEEL AND CONFORM TO ASTM A995M, GRADE 420 (GRADE 60). MINIMUM CLEAR COVER AT THE ROADWAY FACE OF BARRIERS AND BARRIER TRANSITION IS 3 INCHES UNLESS OTHERWISE NOTED. MINIMUM CLEAR COVER AT THE EXTERIOR FACE OF BARRIERS AND BARRIER TRANSITION IS 2 INCHES UNLESS OTHERWISE NOTED.
5. REINFORCING STEEL IN THE ABUTMENT AND PIER FOOTINGS SHALL BE UNCOATED AND CONFORM TO ASTM A615, GRADE 60. MINIMUM CLEAR COVER IN THE FOOTINGS SHALL BE 3 INCHES UNLESS OTHERWISE NOTED. REINFORCING STEEL PLACED IN ABUTMENT, WINGWALL AND PIER FOOTINGS THAT EXTENDS ABOVE TOP OF FOOTING LEVEL SHALL BE EPOXY COATED.
6. REINFORCING STEEL IN THE PIER CAPS AND PIER COLUMNS SHALL CONFORM TO ASTM A615, GRADE 60 AND SHALL BE EPOXY COATED. MINIMUM CLEAR COVER IN THE PIER CAPS AND COLUMNS SHALL BE 3 INCHES UNLESS OTHERWISE NOTED.
7. REINFORCING STEEL IN THE ABUTMENT STEMS AND BACKWALLS AND WINGWALL STEMS SHALL CONFORM TO ASTM A615, GRADE 60 AND SHALL BE EPOXY COATED. MINIMUM CLEAR COVER IN THE ABUTMENT STEMS AND BACKWALLS AND WINGWALL STEMS SHALL BE 2 INCHES UNLESS OTHERWISE NOTED.
8. REINFORCING STEEL EXTENDING FROM WINGWALLS INTO F-SHAPE BARRIER AND BARRIER TRANSITION SHALL BE STAINLESS STEEL AND CONFORM TO ASTM A995M, GRADE 420 (GRADE 60).
9. REINFORCING STEEL EXTENDING FROM FIXED PIER CAPS INTO SUPERSTRUCTURE END DIAPHRAGMS SHALL BE STAINLESS STEEL AND CONFORM TO ASTM A995M, GRADE 420 (GRADE 60).
10. FOR PILE FOUNDATION NOTES, SEE ABUTMENT 1 FOOTING PLAN SHEET.
11. FOR SPREAD FOOTING ON BEDROCK FOUNDATION NOTES, SEE ABUTMENT 2 ELEVATION SHEET.
12. ALL EXPOSED CONCRETE SURFACES OF ABUTMENTS, WINGWALLS AND PIERS SHALL BE COATED WITH WATER REPELLENT, SILANE, IN ACCORDANCE WITH SECTION 514 OF THE PROJECT SPECIAL PROVISIONS. THE PRODUCT USED SHALL BE AS LISTED ON THE VTRANS APPROVED PRODUCTS LIST AND APPLIED PER MANUFACTURER'S RECOMMENDATIONS.

**NOTES:**

1. FOR ABUTMENT & WINGWALL PILE LAYOUT, SEE ABUTMENT 1 FOOTING PLAN.
2. FOR ADDITIONAL PILASTER & PEDESTAL DETAILS, SEE ABUTMENT DETAILS - SHEET 1.
3. FOR ABUTMENT 1 FOOTING REINFORCING DETAILS, SEE ABUTMENT 1 REINFORCEMENT - SHEET 1.
4. FOR ABUTMENT 1 STEM, SEAT AND BACKWALL REINFORCING DETAILS, SEE ABUTMENT 1 REINFORCEMENT - SHEET 2.
5. FOR KEEPER BLOCK DETAILS. SEE ABUTMENT DETAILS - SHEET 2.

PROJECT NAME: WINDSOR	PLOT DATE: 7/30/2015
PROJECT NUMBER: IM 091-1(64)	DRAWN BY: S. GUNN
FILE NAME: z10o188Abut1P.dgn	CHECKED BY: S. HALLORAN
PROJECT LEADER: J. WILSON	SHEET 86 OF 156
DESIGNED BY: S. BOYINGTON	



**ABUTMENT 1 PLAN**  
 SCALE 1/4" = 1'-0"  
 0 2 4 6