

CONCRETE COLOR SEALER COATING NOTES:

THE SURFACES OF THE ABUTMENT WINGS AND MASK WALLS, THE OUTSIDE SURFACE OF THE TRAFFIC BARRIERS, THE EDGE AND UNDERSIDE OF SLAB TO THE FASCIA BEAM TOP FLANGE, PIER CAP BEAM (EXCEPT TOP BEARING SURFACES) AND PIER COLUMNS (ABOVE FINAL GRADE) AS DESIGNATED ON BT30-AS1-04 SHALL BE FINISHED WITH A HIGH SILICONE-CONTENT ACRYLIC CONCRETE SEALER COATING. PRODUCT USED SHALL BE AS SPECIFIED IN THE DEVELOPMENTAL SPECIFICATIONS FOR COLORED SEALER COATING FOR STRUCTURAL CONCRETE.

THERE ARE TWO DIFFERENT COLORS OF CONCRETE SEALER COATING TO BE USED ON THE BRIDGE. SEE BT30-AS1-04 FOR DETAILS FOR SPECIFIC COLOR LOCATIONS AND LIMITS. "COLOR NO. 1" SHALL BE A BUFF TONE MATCHING FEDERAL STANDARD COLOR NUMBER 30475. "COLOR NO. 2" SHALL BE A MEDIUM RED BROWN TONE MATCHING FEDERAL STANDARD COLOR NUMBER 30233.

CONCRETE RUSTICATION NOTES:

THE OUTSIDE FACES OF THE ABUTMENT WINGS AND MASK WALLS, THE SIDES, ENDS AND UNDERSIDE OF THE PIER CAP BEAM AND THE SURFACES OF THE PIER COLUMNS AS DESIGNATED IN THE PLANS SHALL RECEIVE CONCRETE RUSTICATION. STRIPS AND PANELS USED AS INSERTS WITHIN CONCRETE FORMS TO CREATE THE RUSTICATION FEATURES MAY BE MADE OF WOOD, STEEL, PLASTIC OR OTHER NONPOROUS MATERIAL CAPABLE OF WITHSTANDING ANTICIPATED CONCRETE POUR PRESSURES WITHOUT PHYSICAL DEFECTS. WOOD INSERTS, IF USED, SHALL BE FREE OF WARP, TWIST, CHECKS, OR CRACKS, AND SHALL BE PRESOAKED PRIOR TO PLACEMENT OF CONCRETE IN THE FORMS.

RUSTICATION INSERTS SHALL EASILY ATTACH TO FORMS, SHALL NOT ALLOW LEAKAGE OF CONCRETE BETWEEN THE FORM AND THE INSERT, AND BE REMOVABLE WITHOUT CAUSING CONCRETE SURFACE DAMAGE.

THE INSERTS SHALL BE DESIGNED TO FORM SURFACES AND FEATURES CONFORMING TO THE DESIGN INTENT INCLUDING THE SHAPE, LINES, DEPTHS AND DIMENSIONS SHOWN IN THE PLANS. INSERTS SHALL BE CREATED USING A MINIMUM NUMBER OF SPLICE JOINTS IN THEIR LENGTH. SPLICES, IF USED, SHALL BE TIGHTLY JOINED SO AS NOT TO ALLOW GAPS OR LEAKS, AND SHALL NOT CREATE ANY CHANGE IN ALIGNMENT OR SHAPE OF THE RUSTICATION FEATURE.

FOR THE RUSTICATION FEATURES FOLLOWING THE PERIMETER OF ROUND PIER COLUMNS, IT MAY BE NECESSARY TO USE MULTIPLE LAYERS OF INSERT MATERIAL IN ORDER TO ACHIEVE THE RADIUS CURVE. THIS IS ACCEPTABLE, PROVIDED THAT THE FINAL SHAPE, LINE, DEPTH AND DIMENSION OF THE FEATURES ARE MAINTAINED IN THE FINAL RESULT.

AT PIER COLUMNS AND ABUTMENT WINGS, RUSTICATION FEATURES SHALL EXTEND A MINIMUM OF ONE FOOT BELOW ANTICIPATED FINAL GRADE LINE.

DURING LOADING OF FORMS WITH CONCRETE, CARE SHOULD BE TAKEN TO ENSURE PROPER CONSOLIDATION OF CONCRETE AROUND ALL RUSTICATION INSERTS TO PRESERVE THE SHAPE, LINE AND DEPTH OF ALL INTENDED FEATURES IN THE FINAL CONCRETE SURFACE. FOLLOWING REMOVAL OF FORMS, FINISH DEFECTS TO ACHIEVE THE RUSTICATION FEATURES AS SPECIFIED IN THE PLANS, COMPLETED SURFACE SHALL BE FREE FROM BLEMISHES, SURFACE VOIDS AND NOTICEABLE FORM MARKS TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL CORRECT, AT HIS OWN COST, ANY SURFACE DEFECTS.

ALL COSTS ASSOCIATED WITH THE CONCRETE RUSTICATION SHALL BE INCLUDED IN THE BID ITEM "STRUCTURAL CONCRETE (BRIDGE)".

CONCRETE COLOR SEALER COATING QUANTITIES (30'-0 ROADWAY)																
BRIDGE LENGTH	222'-0			232'-0			242'-0			252'-0						
	19'-0	22'-0	25'-0	19'-0	22'-0	25'-0	19'-0	22'-0	25'-0	19'-0	22'-0	25'-0				
BARRIER	COLOR NO. 1	317.9	317.9	317.9	331.6	331.6	331.6	345.2	345.2	345.2	359.0	359.0	359.0	372.7	372.7	372.7
	COLOR NO. 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ABUTMENT	COLOR NO. 1	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
	COLOR NO. 2	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
PIER	COLOR NO. 1	76.6	83.9	91.2	76.6	83.9	91.2	76.6	83.9	91.2	76.6	83.9	91.2	76.6	83.9	91.2
	COLOR NO. 2	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
TOTAL - SQ. YD.		452.2	459.6	466.9	465.9	473.2	480.6	479.6	486.9	494.2	493.3	500.7	508.0	507.0	514.3	521.7

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 Iowa Department of Transportation Highway Division
		STANDARD DESIGN - 30' ROADWAY, 2 SPAN BRIDGES PRETENSIONED PRESTRESSED BULB TEE CONCRETE BEAM BRIDGES
		ALL SPANS JULY, 2004
GENERAL NOTES		BT30-GD3-04