CONCRETE PAINTING NOTES:

THE TEXTURED SURFACES OF THE ABUTMENT WINGWALLS AND MASKWALLS AND THE TEXTURED SURFACES OF THE PIER STEMS AS NOTED AND SHOWN IN THE PLANS SHALL BE FINISHED WITH MINERAL SILICATE PAINT CHOSEN FROM THE FOLLOWING LISTED PRODUCTS:

1. KEIM MINERAL COATINGS OF AMERICA: CONCRETAL MINERAL COATING.
2. EDISON COATINGS, INC.: EVERKOTE 300 MINERAL COATING
3. CATHEDRAL STONE PRODUCTS: MASONRE MINERAL COATING
4. APPROVED EQUAL

PRIOR TO BEGINNING PRODUCTION PAINTING, DEMONSTRATE SURFACE PREPARATION METHODS AND PAINT APPLICATION ON THE TEXTURED CONCRETE MOCKUP PANEL LOCATED AT THE BRIDGE SITE. NO PRODUCTION CONCRETE PAINTING MAY BEGIN UNTIL FINAL APPROVAL OF PAINTING RESULTS ON THE MOCKUP. APPROVED MOCKUP SHALL REMAIN IN PLACE NEAR THE BRIDGE FOR COMPARISON TO PRODUCTION PAINTING UNTIL WORK IS COMPLETED.

THE TEXTURED CONCRETE MOCKUP PANEL IS DETAILED AND PAID FOR AS PART OF DESIGN NO. 120 OF THIS PROJECT. THE SURFACE PREPARATION METHODS AND PAINT APPLICATION SHALL BE THE SAME ON ALL DESIGN NUMBERS IN THIS PROJECT AND SHALL NOT COMMENCE UNTIL FINAL APPROVAL OF THE PAINTING RESULTS ON THE MOCKUP.

PRIOR TO CONCRETE COATING APPLICATION, PREPARE SURFACES IN ACCORDANCE WITH THE "DEVELOPMENTAL SPECIFICATIONS FOR CONCRETE SURFACE PREPARATION AND TESTING PRIOR TO COATING APPLICATION". APPLY MINERAL SILICATE PAINT IN ACCORDANCE WITH THE "DEVELOPMENTAL SPECIFICATIONS FOR STRUCTURAL CONCRETE COATING".

THERE ARE TWO COLOR FINISH TYPES TO BE USED ON THE BRIDGE. "COLOR NO. 1" SHALL BE USED ONLY ON THE COURSED STONE TEXTURE 'A' SURFACES, AND "COLOR NO. 2" SHALL BE USED ON THE PROJECTED, FRACTURED FACE TEXTURE 'B' SURFACES. SEE DETAILS ON THIS DESIGN SHEET FOR SPECIFIC COLOR LOCATIONS AND LIMITS. "COLOR NO. 1" SHALL BE A FULL RANGE OF NATURAL LIMESTONE COLORS INCLUDING SUBTLE COLOR VARIATIONS, MINERAL OXIDATION AND STAINING. THE FINAL COLORATION OF THE CONCRETE SURFACE SHALL ACCURATELY SIMULATE THE APPEARANCE OF REAL STONE INCLUDING THE MULTIPLE COLOR SHADES THAT ARE APPARENT IN REAL CUT LIMESTONE. USE AT LEAST THREE COLOR SHADES TO SIMULATE THE APPEARANCE OF STONE. BEGIN WITH A BASE COLOR APPLICATION OF LIGHT OR MEDIUM BUFF. APPLY A SLIGHTLY LIGHTER OR DARKER BASE COLOR TO RANDOM STONES PRIOR TO ADDING THE COLOR VARIATIONS. "COLOR NO. 2" SHALL BE A SINGLE DARK GREYBROWN COLOR TO MATCH FEDERAL STANDARD NO. 595C COLOR NUMBER 30099. SUBMIT PRODUCT SPECIFICATION SHEETS AND COLOR SAMPLES AS DESCRIBED IN THE DEVELOPMENTAL SPECIFICATIONS.

COATED SURFACE AREA TABULATION (SY):

COLOR NO. 1:
PIER NOS. 6A & 7A: 41.6 SY
SOUTH ABUTMENT WINGWALLS AND MASKWALLS: 23.2 SY

TOTAL COLOR NO. 1: 64.8 SY

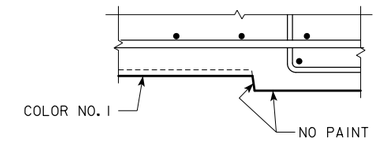
COLOR NO. 2:
PIER NOS. 6A & 7A: 9.2 SY
SOUTH ABUTMENT WINGWALLS AND MASKWALLS: 13.6 SY

TOTAL COLOR NO. 2: 22.8 SY

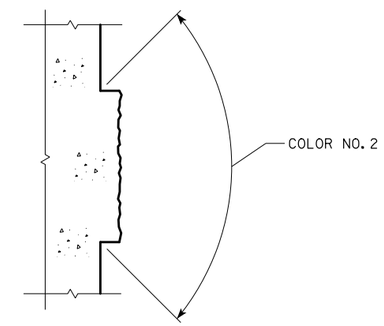
ALL COSTS ASSOCIATED WITH SURFACE PREPARATION AND APPLICATION OF MINERAL SILICATE PAINT SHALL BE INCLUDED IN THE BID ITEM, "STRUCTURAL CONCRETE COATING".

CONCRETE PAINT QUANTITIES

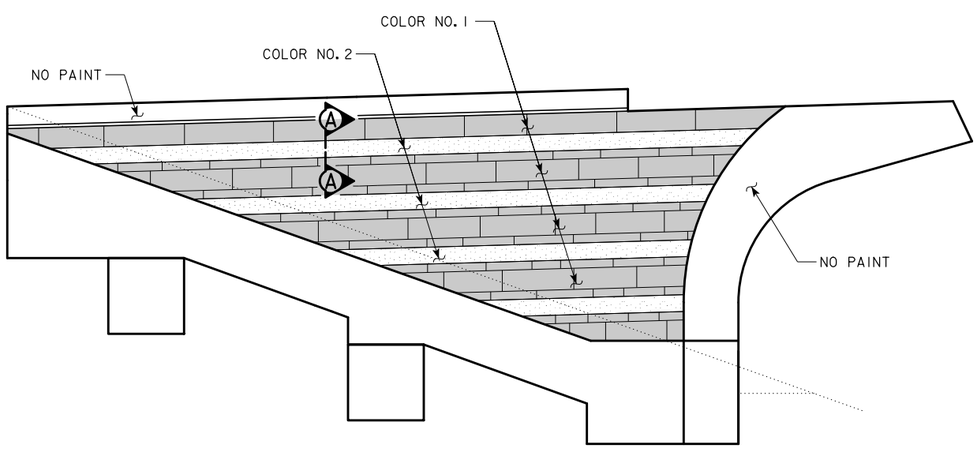
LOCATION	UNIT	QUANTITY
PIER NOS. 6A & 7A	SY	50.8
SOUTH ABUTMENT	SY	36.8
TOTAL	SY	87.6



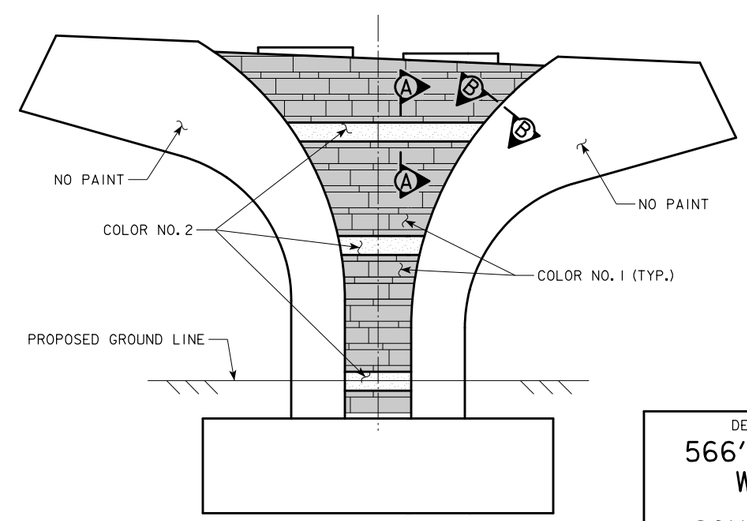
PART SECTION B-B



PART SECTION A-A



ABUTMENT SIDE ELEVATION
(EAST WINGWALL SHOWN, WEST WINGWALL SIMILAR)



PIER ELEVATION
(PIER NO. 6A SHOWN, PIER NO. 7A SIMILAR)

DESIGN FOR 0° SKEW ON 3,300' RADIUS CURVE

566'-6 X VARIES CONTINUOUS WELDED GIRDER BRIDGE

171'-0, 226'-0, 169'-6 SPANS

CONCRETE PAINTING DETAILS

STA. 2543+48.27 (℄ RAMP B) APRIL 2018

JOHNSON COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

DESIGN SHEET NO. 11 OF 31 FILE NO. 30864 DESIGN NO. 420