

TRAFFIC CONTROL GENERAL NOTES

SURFACE PREPARATIONS, NEW SUPPORT SECTIONS

NEW UNWEATHERED GALVANIZED SUPPORT SECTIONS SHALL HAVE THEIR SURFACE PREPARATION AS WELL AS THEIR PROTECTIVE COATING DONE AT THE MANUFACTURER OF THE SUPPORT SECTIONS.

THE SUPPORT SECTIONS SHALL BE PREPARED FOR COATING BY SSPC - SP1 FOLLOWED BY SSPC - SP7 (SOLVENT CLEANING) FOLLOWED BY A BRUSH-OFF BLAST. BLASTING ABRASIVES CONTAINING MORE THAN 1% FREE SILICA SHALL NOT BE ALLOWED. BEFORE THE PREPARED SURFACE DEGRADES FROM THE PRESCRIBED STANDARDS, THE PRIME COAT SHALL BE APPLIED. IN EVERY CASE, THE SURFACE SHALL BE COATED WITH THE EPOXY PRIME COAT ON THE SAME DAY OF SURFACE PREPARATION. CAREFUL HANDLING AND STORAGE WILL BE REQUIRED TO PREVENT ANY SCRAPING, MARRING, OR OTHER SURFACE DAMAGE TO THE PREPARED SURFACE.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, HANDLING, TRANSPORTATION COSTS AND MATERIALS NECESSARY TO ACCOMPLISH THIS ITEM OF WORK PER MAJOR SUPPORT SECTION.

BASIS OF PAYMENT WILL BE AS FOLLOWS:
ITEM 630 - SIGNING, MISC.: SURFACE PREPARATION, NEW SUPPORT SECTIONS AT THE CONTRACT BID PRICE PER EACH MAJOR SUPPORT SECTION.

COATING, EPOXY INTERMEDIATE COAT, SUPPORT SECTIONS

THIS ITEM SHALL CONSIST OF THE APPLICATION OF ONE (1) COAT OF EPOXY TO SUPPORT SECTIONS. THE TOTAL DRY FILM THICKNESS OF THIS COAT SHALL NOT BE LESS THAN SIX (6.0) MILS. IF MORE THAN ONE PASS IS NECESSARY TO OBTAIN THE REQUIRED THICKNESS, THAT COAT SHALL BE BORNE BY THE CONTRACTOR. THIS COAT SHALL BE APPLIED BY BRUSH. THINNING OF THE EPOXY MATERIAL IS STRICTLY PROHIBITED. MATERIAL NOT CAPABLE OF BEING APPLIED AS SPECIFIED SHALL NOT BE USED.

WHEN THE AVERAGE DRY FILM THICKNESS OF THIS COAT OVER THE ENTIRE SUPPORT SECTION IS LESS THAN THE SPECIFIED SIX (6.0) MILS, BUT IS AT LEAST FIVE (5.0) MILS, THE CONTRACT PRICE FOR THIS ITEM SHALL BE REDUCED IN DIRECT PROPORTION TO THE PERCENT DEFICIENCY OF COATING UP TO 16-2/3%. IF THE DEFICIENCY OF COATING IS MORE THAN 16-2/3%, (I.E. THE AVERAGE FILM THICKNESS IS LESS THAN 5.0 MILS), THE WORK FOR THIS ITEM SHALL BE CONSIDERED UNSATISFACTORY AND SHALL BE RECOATED AT THE FULL EXPENSE OF THE CONTRACTOR, INCLUDING ALL LABOR, EQUIPMENT, AND MATERIAL. THE EPOXY INTERMEDIATE COAT CHOSEN BY THE CONTRACTOR SHALL BE ONE OF THE FOLLOWING TWO-COMPONENT COMPOSITIONS CONFORMING TO ITS LISTED PROPERTIES:

AMERLOCK 400
% SOLIDS BY VOLUME : 83% +/- 2%
POT LIFE : 2-1/2 HRS. @ 70 DEGREES F
DRYING TIME : 20 HRS. @ 70 DEGREES F

DEVTRAN 4170 CORROSION RESISTANT EPOXY PRIMER 5465 SERIES
% SOLIDS BY VOLUME : 54% +/- 1%
% SOLIDS BY WEIGHT : 71% +/- 1%
POT LIFE : 4 HRS. @ 77 DEGREES F
DRYING TIME : TOUCH 1-2 HRS., RECOAT 7 HRS.
VISCOSITY : 95-100 KU
70 DEGREES F, 50% R.H.

MCR-4301 EPOXY PRIMER
% SOLIDS BY VOLUME : 48.0% +/- 2%
POT LIFE : 30 HRS. @ 50-0 DEGREES F, 16 HRS. @ 80 DEGREES F
DRYING TIME : 1-2 HRS. @ 60-80 DEGREES F

MARK-60 ULTRAPOX
% SOLIDS BY WEIGHT : 70-75% +/- 2%
POT LIFE : 6 HRS. @ 75 DEGREES F
DRYING TIME : 2-3 HRS. INITIAL SET @ 75 DEGREES F

HI-SOLIDS CATALYZED EPOXY
% SOLIDS BY VOLUME : 61% +/- 2% (SLATE GRAY)
% SOLIDS BY WEIGHT : 77% +/- 2%
POT LIFE : 5 HRS. @ 77 DEGREES F
DRYING TIME : 1 HR. TO TOUCH, 4 HRS. TACK FREE
6 HRS. TO RECOAT @ 77 DEGREES F, 50% R.H.

AT LEAST 24 HOURS BUT NO MORE THAN THREE (3) DAYS SHALL ELAPSE AFTER THE APPLICATION OF THE EPOXY PRIME COAT AND BEFORE THE APPLICATION OF THE EPOXY INTERMEDIATE COAT. SURFACES SHALL IN ALL CASES BE CLEAN BEFORE THE INTERMEDIATE COAT IS APPLIED.

FOR NEW SUPPORT SECTIONS, THE INTERMEDIATE COAT SHALL BE DONE AT THE MANUFACTURER OF THE SUPPORT SECTIONS. VERIFICATION BY THE MANUFACTURER FOR THE INTERMEDIATE COAT PROCEDURE WILL BE REQUIRED. CAREFUL HANDLING AND STORAGE WILL BE REQUIRED TO PREVENT ANY SCRAPING, MARRING OR OTHER SURFACE DAMAGE TO THE INTERMEDIATE COAT.

THE PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, HANDLING COSTS AND MATERIAL NECESSARY TO ACCOMPLISH THIS ITEM OF WORK. THIS INTERMEDIATE COAT SHALL BE MANUFACTURED BY THE SAME COMPANY SUPPLYING THE PRIME AND TOP COATS. A PROPERLY CALIBRATED DRY FILM THICKNESS INSTRUMENT WILL BE USED TO CHECK THE COATING.

BASIS OF PAYMENT WILL BE AS FOLLOWS:
ITEM 630 - SIGNING, MISC.: COATING, EPOXY, INTERMEDIATE COAT, SUPPORT SECTIONS AT THE CONTRACT BID PRICE PER EACH MAJOR SUPPORT SECTION.

COATING, URETHANE TOP COAT, SUPPORT SECTIONS

THIS ITEM SHALL CONSIST OF THE APPLICATION OF ONE (1) COAT OF URETHANE TO SUPPORT SECTIONS. THE TOTAL DRY FILM THICKNESS OF THIS COAT SHALL NOT BE LESS THAN ONE AND ONE-HALF (1.5) MILS. IF MORE THAN ONE PASS IS NECESSARY TO OBTAIN THE REQUIRED THICKNESS, THAT COAT SHALL BE BORNE BY THE CONTRACTOR. THIS COAT SHALL BE APPLIED BY BRUSH. THINNING OF THE URETHANE MATERIAL IS STRICTLY PROHIBITED. MATERIAL NOT CAPABLE OF BEING APPLIED AS SPECIFIED SHALL NOT BE USED.

WHEN THE AVERAGE DRY FILM THICKNESS OF THIS COAT OVER THE ENTIRE SUPPORT SECTION IS LESS THAN THE SPECIFIED ONE AND ONE-HALF (1.5) MILS BUT IS AT LEAST ONE (1.0) MIL, THE CONTRACT PRICE FOR THIS ITEM SHALL BE REDUCED IN DIRECT PROPORTION TO THE PERCENT DEFICIENCY OF COATING UP TO 33 1/3%. IF THE DEFICIENCY OF THE COATING IS MORE THAN 33 1/3%, (I.E. THE AVERAGE DRY FILM THICKNESS IS LESS THAN 1.0 MIL), THE WORK FOR THIS ITEM SHALL BE CONSIDERED UNSATISFACTORY AND SHALL BE RECOATED AT THE FULL EXPENSE OF THE CONTRACTOR, INCLUDING ALL LABOR, EQUIPMENT AND MATERIAL.

THE URETHANE TOP COAT CHOSEN BY THE CONTRACTOR SHALL BE ONE OF THE FOLLOWING MATERIALS CONFORMING TO ITS LISTED PROPERTIES:

AMERCOAT 450 HS
% SOLIDS BY VOLUME : 45% +/- 2%
POT LIFE : 20 HRS. @ 77 DEGREES F
DRYING TIME : 8 HRS. @ 77 DEGREES F DRY THROUGH

DEVTHANE 4708 ALIPHATIC URETHANE ENAMEL (6200/6252)
% SOLIDS BY VOLUME : 48 +/- 1%
% SOLIDS BY WEIGHT : 59 +/- 1%
POT LIFE : 6 HRS. @ 70 DEGREES F
DRYING TIME : 4 HRS. @ 77 DEGREES F RECOAT

HYTHANE
% SOLIDS BY VOLUME : 42 +/- 2%
POT LIFE : 16 HRS. @ 50 DEGREES F
12 HRS. @ 75 DEGREES F

MARK-73 (ULTRA-KOTE)
% SOLIDS BY VOLUME : 52.5% +/- 2%
% SOLIDS BY WEIGHT : 55% +/- 2%
POT LIFE : 8 HRS. @ 75 DEGREE F
DRYING TIME : 4-5 HRS. @ 75 DEGREES F TACK FREE
VISCOSITY : 70-75 KU @ 75 DEGREES F

HI-BILD ALIPHATIC POLYURETHANE ENAMEL
% SOLIDS BY VOLUME : 40% +/- 2% (CATALYZED)
% SOLIDS BY WEIGHT : 48% +/- 2%
POT LIFE : 6 HRS. @ 77 DEGREES F
DRYING TIME : 30 MIN. TO TOUCH, 4 HRS. TACK FREE
18 HRS. MIN. 72 HRS. MAX TO RECOAT

AT LEAST 24 HOURS BUT NO MORE THAN THREE (3) DAYS SHALL ELAPSE AFTER THE APPLICATION OF THE EPOXY INTERMEDIATE COAT AND BEFORE THE APPLICATION OF THE URETHANE TOP COAT. SURFACES SHALL IN ALL CASES BE CLEAN BEFORE THE TOP COAT IS APPLIED.

FOR NEW SUPPORT SECTIONS, THIS TOP COAT SHALL BE DONE AT THE MANUFACTURER OF THE SUPPORT SECTIONS. VERIFICATION BY THE MANUFACTURER FOR THE TOP COAT PROCEDURE WILL BE REQUIRED. CAREFUL HANDLING AND STORAGE WILL BE REQUIRED TO PREVENT ANY SCRAPING, MARRING OR OTHER SURFACE DAMAGE TO THE TOP COAT.

THE PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, HANDLING COST AND MATERIALS NECESSARY TO ACCOMPLISH THIS ITEM OF WORK. THIS TOP COAT SHALL BE MANUFACTURED BY THE SAME COMPANY SUPPLYING THE PRIME AND INTERMEDIATE COATS. A PROPERLY CALIBRATED DRY FILM INSTRUMENT WILL BE USED TO CHECK THE COATING.

BASIS OF PAYMENT WILL BE AS FOLLOWS:
ITEM 630 - SIGNING, MISC.: COATING, URETHANE TOP COAT, SUPPORT SECTIONS AT THE CONTRACT BID PRICE PER EACH MAJOR SUPPORT SECTION.

PREQUALIFICATION

PRIOR TO USE, THE CONTRACTOR SHALL SUBMIT TO THE DIRECTOR COPIES OF THE MANUFACTURER'S CERTIFIED TEST DATA SHOWING THAT THE MATERIAL COMPLIES WITH THE REQUIREMENTS OF THIS SPECIFICATION. THE TEST DATA SHALL INCLUDE THE BRAND NAME OF THE PAINT, NAME OF MANUFACTURER, NUMBER OF THE LOT TESTED AND DATE OF MANUFACTURE. WHEN THE PAINT HAS BEEN APPROVED BY THE DIRECTOR, FURTHER PERFORMANCE TESTING BY THE MANUFACTURER WILL NOT BE REQUIRED UNLESS THE FORMULATION OR MANUFACTURING PROCESS HAS BEEN CHANGED, IN WHICH CASE NEW CERTIFIED TEST RESULTS WILL BE REQUIRED.

ACCEPTANCE

THE MANUFACTURER SHALL SUBMIT CERTIFIED TEST DATA IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SPECIFICATION. THE STATE RESERVES THE RIGHT TO SAMPLE AND TEST DELIVERED LOTS FOR COMPLIANCE.

LOCATIONS

THE FOLLOWING SUMMARY OF MAJOR SUPPORT SECTIONS TO HAVE A PROTECTIVE COATING APPLIED IS NOTED BELOW:

SUPPORT NO.	MAJOR SECTIONS
26	1 POLE, 1 ARM
36	1 POLE, 1 ARM
48	1 POLE, 1 ARM
91	1 POLE, 1 ARM
92	1 POLE, 1 ARM
93	1 POLE, 1 ARM
94	1 POLE, 1 ARM
95	1 POLE, 1 ARM
96	1 POLE, 1 ARM
97	1 POLE, 1 ARM
98	1 POLE, 1 ARM