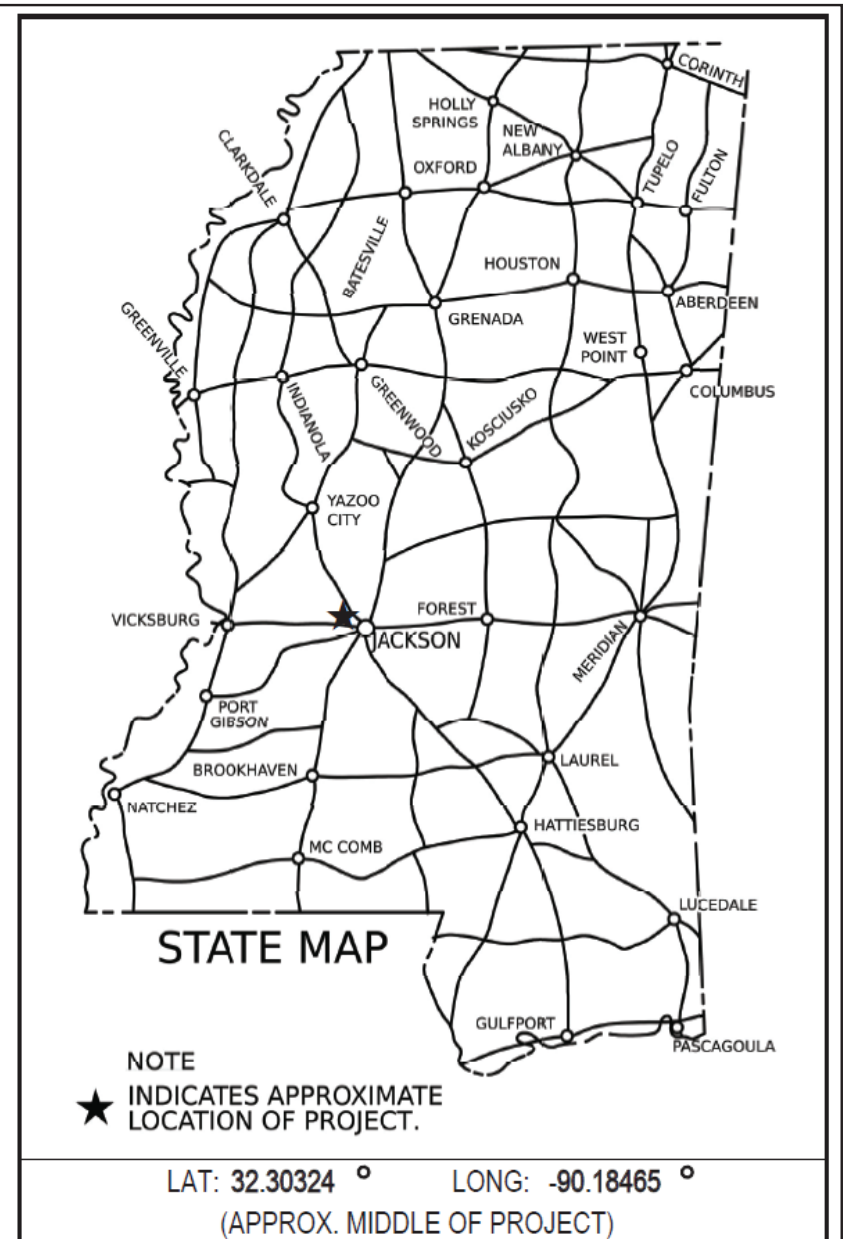
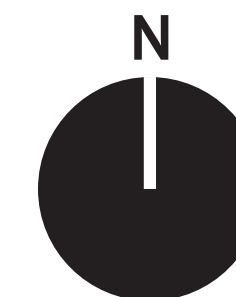


STATE OF MISSISSIPPI
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

MDOT Administration Building Parking
Garage Repairs

STATE PROJ. NO.S BWO-9021-25(021)

HINDS COUNTY



PERMITS ACQUIRED BY MDOT		
WETLANDS AND WATERS PERMITS		
	WATERS	WETLANDS
NATIONWIDE #14	<input type="checkbox"/>	<input type="checkbox"/>
NATIONWIDE (OTHER)*	<input type="checkbox"/>	<input type="checkbox"/>
GENERAL *	<input type="checkbox"/>	<input type="checkbox"/>
INDIVIDUAL (404)*	<input type="checkbox"/>	<input type="checkbox"/>
	STORMWATER PERMIT <input type="checkbox"/>	
Y	REQUIRED. CNOI SUBMITTED BY MDOT (DISTURBED AREA=5 ACRES)	
S	REQUIRED. SCNOI TO BE SUBMITTED BY CONTRACTOR (1 TO 4.99 ACRES)	
N	NO STORMWATER PERMIT REQUIRED (<1 ACRE)	
APPROVED BY:		

CONSTRUCTION PROJECT DATA	
EXTERNAL PROJ. NO.	FMS & DETAIL
BWO-9021-25(021)	503889-301000



P S & E DATE:

APPROVED:

DEPUTY EXECUTIVE DIRECTOR / CHIEF ENGINEER

EXECUTIVE DIRECTOR

GENERAL NOTES:

- ALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITIONS OF THE APPLICABLE LOCAL AND STATE BUILDING CODES.
- CONTRACTOR IS INSTRUCTED NOT TO SCALE DRAWINGS.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL CONDITIONS AND DIMENSIONS SHOWN ON THE DRAWINGS WITH EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL REPORT IMMEDIATELY TO THE ENGINEER ANY DISCREPANCIES OR INCORRECT INFORMATION WITH RESPECT TO THE DRAWINGS BASED ON EXISTING CONDITIONS. AFTER REPORTING THESE DISCREPANCIES VERBALLY, THE CONTRACTOR SHALL SUBMIT A WRITTEN REPORT (WITH DRAWINGS/SKETCHES, AS REQUIRED) IMMEDIATELY FOR THE ENGINEER'S REVIEW. CONTRACTOR WILL BE DIRECTED BY THE ENGINEER REGARDING THE CHANGES, AND FURTHER ACTION IF AND AS REQUIRED.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY METHODS AND EQUIPMENT FOR PROTECTING GARAGE EQUIPMENT, MATERIALS AND PERSONNEL FROM FIRE AND OTHER DAMAGES. THESE MEASURES SHALL BE IN PLACE PRIOR TO START OF WORK. METHODS AND EQUIPMENT ARE SUBJECT TO APPROVAL BY THE CITY OF JACKSON FIRE DEPARTMENT, BUILDING DEPARTMENT AND/OR OTHER APPROPRIATE AGENCIES. FIRE PROTECTION AND PREVENTION DURING THE CONSTRUCTION PERIOD DURING SHALL BE IN ACCORDANCE WITH ALL LAWS AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, THE LATEST N.F.P.A. REGULATIONS, OSHA REQUIREMENTS, THE STATE OF MISSISSIPPI AND THE CITY OF JACKSON, MS REGULATIONS AND ORDINANCES.
- THE CONTRACTOR SHALL COMPLY WITH ALL SAFETY AND HEALTH LAWS AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, THE PROVISIONS AND REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (AS AMENDED) OR THE CONSTRUCTION SAFETY ACT OF 1969 (AS AMENDED); WHICHEVER IS APPLICABLE. THE CONTRACTOR SHALL ALSO COMPLY WITH ALL THE MOST RECENT APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND ORDERS OF ANY PUBLIC AUTHORITY HAVING JURISDICTION OVER THE PROJECT IN ORDER TO PROTECT PERSONS AND/OR PROPERTY FROM DAMAGE, INJURY OR LOSS. THE CONTRACTOR SHALL ERRECT AND MAINTAIN, AS REQUIRED BY EXISTING CONDITIONS AND PROGRESS OF THE WORK, ALL REASONABLE SAFEGUARDS FOR SAFETY AND PROTECTION, INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS, PROMULGATING SAFETY REGULATIONS AND NOTIFYING THE OWNER, TENANTS, PATRONS AND USERS OF ADJACENT FACILITIES. THE CONTRACTOR SHALL ALSO ASSURE THAT ALL HIS SUBCONTRACTORS CONFORM TO ALL HEALTH AND SAFETY LAWS AND REGULATIONS.
- THE CONTRACTOR SHALL DESIGN AND PROVIDE ALL SHORING, BRACING AND SHEETING REQUIRED FOR SAFETY AND PROPER EXECUTION OF THE WORK.
- THE CONTRACTOR SHALL NOT ATTEMPT TO BRING ANY CONSTRUCTION EQUIPMENT WEIGHING MORE THAN 3,500 LBS. OR OTHER SPECIALIZED VEHICLE OR EQUIPMENT ONTO THE PARKING STRUCTURE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ENGINEER (AECOM). IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL SUBMIT CALCULATIONS PERFORMED AND STAMPED BY THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MISSISSIPPI, SHOWING IMPACT OF SAID EQUIPMENT ON THE STRUCTURE.
- CONTRACTOR IS RESPONSIBLE FOR PREPARATION OF SHOP DRAWINGS FOR ANY SPECIALIZED SHORING WHICH MAY BE REQUIRED AND/OR SPECIFIED IN THE CONTRACT DOCUMENTS. SHORING MUST BE DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MISSISSIPPI. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- WHEN PLANS AND SPECIFICATIONS INCLUDE INFORMATION PERTAINING TO SURFACE OBSERVATIONS, THE OPINION OF THE ENGINEER AS TO THE LOCATIONS, CHARACTER, OR QUANTITY OF THE MATERIALS OR CONDITIONS ENCOUNTERED IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. THE OWNER/ENGINEER ASSUMES NO RESPONSIBILITY WHATSOEVER WITH RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION, AND THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE CONDITIONS INDICATED ARE REPRESENTATIVE OF THOSE EXISTING THROUGHOUT THE WORK, OR THAT UNANTICIPATED DEVELOPMENTS MAY NOT OCCUR AND/OR EXIST.
- ANY EXTRA WORK BEYOND THE SCHEDULED QUANTITIES REQUIRING EXTRA COST TO THE OWNER SHALL BE APPROVED BY THE OWNER PRIOR TO COMMENCING SAID WORK. CLAIMS FOR EXTRA WORK HAVE NOT BEEN APPROVED BY THE OWNER AND APPROVED BY THE ENGINEER WILL BE REJECTED AND THE CONTRACTOR SHALL NOT BE ENTITLED TO PAYMENT.
- THE CONTRACTOR SHALL REVIEW ALL EXISTING CONDITIONS TO DETERMINE ALL SERVICES (ELECTRICAL AND MECHANICAL) WHICH MIGHT BE AFFECTED BY THE REPAIR WORK. THE TEMPORARY RELOCATION OR REPLACEMENT OF UTILITIES ARE NOT PAID FOR DIRECTLY AND SHOULD BE ABSORBED IN OTHER ITEMS OF WORK. CONTRACTOR SHALL MAKE NECESSARY TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SERVICES TO ALL AREAS OF THE GARAGE OR OTHER AREAS NOT IN THE CONTRACT AFFECTED BY THE WORK. UPON COMPLETION OF REPAIRS THE CONTRACTOR SHALL MAKE PERMANENT CONNECTIONS TO ALL SERVICES WHICH HAD BEEN TEMPORARILY MAINTAINED.
- ANY UTILITY LINES ABANDONED OR NO LONGER IN SERVICE THAT WOULD INTERFERE WITH THE PROJECT SHALL BE IDENTIFIED BY THE CONTRACTOR AND REMOVED FROM THE REPAIR AREAS BY THE OWNER, UNLESS NOTED OTHERWISE, PRIOR TO THE START OF WORK BY THE CONTRACTOR.
- ALL DETAILS, SECTIONS AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE, UNLESS OTHERWISE SHOWN.
- THE CONTRACTOR SHALL PROVIDE THE ENGINEER/OWNER A COMPREHENSIVE TRAFFIC CONTROL PLAN PRIOR TO STARTING WORK. ANY TRAFFIC CONTROL DEVICES, SIGNAGE, SIGNAL LIGHTS, ETC. REQUIRED SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY.

GENERAL NOTES CONT.:

- THE CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE ON A DAILY BASIS.
- THE GARAGE ENTRANCES SHOULD REMAIN IN OPERABLE, CLEAN AND SAFE CONDITION THROUGHOUT DURATION OF WORK.
- THE CONTRACTOR SHALL VERIFY THE SITE CONDITIONS ARE ACCEPTABLE FOR THE PROPOSED CONSTRUCTION.
- UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE ENGINEER AND OWNER A COMPLETE SET OF RECORD DRAWINGS (PDF AND PRINT) IDENTIFYING DEVIATIONS OR VARIATIONS FROM THE ORIGINAL PLANS.

DEMOLITION NOTES:

- THE CONTRACTOR SHALL VISIT THE SITE AND INSPECT THE SITE TO ASSESS THE EXTENT OF WORK.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING STRUCTURE TO REMAIN, UTILITIES AND EQUIPMENT, AND MAINTAIN UNINTERRUPTED BUILDING OPERATIONS. ALL TEMPORARY SUPPORTS, BRACING, AND SHORING, AS NECESSARY, TO PROTECT AND MAINTAIN THE STRUCTURE, UTILITIES, EQUIPMENT AND APPURTENANCES SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MISSISSIPPI RETAINED BY CONTRACTOR. ANY DAMAGE RESULTING FROM ACTIONS OR LACK OF ACTION BY THE CONTRACTOR SHALL BE REPAIRED IMMEDIATELY TO THE EXISTING FACILITY BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
- SHORE AND BRACE EXISTING STRUCTURES TO UNLOAD MEMBERS BEFORE REMOVING STRUCTURAL ELEMENTS, AS REQUIRED.
- DO NOT OVER CUT CORNERS WHEN USING A ROTARY SAW. CORE HOLES AT CORNERS PRIOR TO SAW CUTTING AND CHIP FLUSH, AS REQUIRED.
- DO NOT CUT EXISTING REINFORCING BARS OR POST-TENSION TENDONS AT INTERFACES WITH NEW WORK. INCORPORATE EXISTING BARS INTO NEW WORK INSOFAR AS PRACTICABLE. REMOVE THOSE REINFORCING BARS WHICH CANNOT BE BENT INTO AREAS OF NEW CONCRETE WORK AND REPLACE WITH MATCHING DOWELS THAT MAY BE REQUIRED TO BE ANCHORED INTO THE EXISTING CONCRETE WITH ADHESIVE GROUT.
- CONCRETE REMOVAL WORK SHALL BE LIMITED TO SAW CUTTING AND USE OF HANDHELD 15-LB PNEUMATIC OR ELECTRIC CHIPPING HAMMERS. ENSURE ADJACENT CONCRETE TO REMAIN WILL NOT BE FRACTURED WHEN THE CONCRETE TO BE REMOVED IS BROKEN OUT.
- WHEN EQUIPMENT OR FORMWORK IS ATTACHED TO EXISTING STRUCTURES TO REMAIN, REMOVE CONCRETE ANCHORS USED TO SECURE EQUIPMENT OR FORMWORK AND FILL HOLES WITH NON-SHRINK, NON-METALLIC GROUT.
- DAMAGE DUE TO DEMOLITION OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE. FRACTURED CONCRETE SHALL BE REPAIRED WITH AN APPROVED PRESSURE INJECTED EPOXY SYSTEM.
- PATCH AND FINISH EXPOSED SURFACES TO MATCH THE ADJACENT AREA UNLESS OTHERWISE INDICATED OR SPECIFIED.

CONCRETE REPAIR:

- ALL CONCRETE REPAIR WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 301, "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
- PRIOR TO PLACEMENT OF CONCRETE PATCH MATERIAL, EXPOSED REINFORCING STEEL SHALL BE ABRASIVE-GRIT BLASTED AND COATED WITH ANTI-CORROSION INHIBITING AGENT. ANTI-CORROSION INHIBITING AGENT SHALL BE SIKARMADEC 110 - EPCOM OR ENGINEER'S APPROVED EQUIVALENT. CONTRACTOR TO SUBMIT PRODUCT TECHNICAL DATA AND MATERIAL SAFETY DATA SHEETS FOR ENGINEER'S REVIEW.
- ALL MORTAR PLACEMENTS SHALL FOLLOW RECOMMENDATIONS OF THE LATEST ACI 304, "STANDARD RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE". TOLERANCES SHALL BE IN ACCORDANCE WITH ACI 347 FOR TOLERANCES OF REINFORCED CONCRETE.
- PATCHING MATERIAL SHALL BE STRUCTURAL MORTAR INSTALLED BY THE "FORM AND POUR" OR "FORM AND PUMP" METHODS. IN DIFFICULT TO REACH REPAIR AREAS, TROWEL-APPLIED MORTAR SHALL BE PERMITTED ONLY AFTER WRITTEN APPROVAL OF THE ENGINEER IS GRANTED PRIOR TO INSTALLATION. REPAIRS ALONG VERTICAL AND OVERHEAD SURFACES SHALL BE REPAIRED USING "FORM AND POUR" METHOD. PATCHING MATERIAL SHALL BE "SIKATOP 111 PLUS" BY SIKA CORPORATION OF APPROVED EQUAL. IF PATCHING MATERIAL IS PLACED BY TROWELING (SUBJECT TO ENGINEER APPROVAL), PATCHING MATERIAL SHALL BE SIKATOP 123 PLUS" BY SIKA CORPORATION OR APPROVED EQUAL.
- MINOR CONCRETE SPALL REPAIR AREAS (1-INCH DEEP AND COVERS LESS THAN 12 SQUARE INCHES WITHOUT EXPOSED REINFORCEMENT OR STRANDS) SHALL BE REPAIRED WITH EPOXY MORTAR.
- SUBMIT REPAIR MORTAR AND GROUT FOR REVIEW AND APPROVAL PRIOR TO CONCRETE PLACEMENT.

DEMOLITION NOTES CONT.:

- PROTECT FRESHLY PLACED MORTAR FROM RAIN, WIND, HEAT, FROST, ETC., AND PROVIDE CONTINUOUS WET CURING FOR A MINIMUM OF 5 DAYS.
- PLACE MORTAR ONLY AT AMBIENT TEMPERATURES BETWEEN 40- AND 90- DEGREES FAHRENHEIT.
- PROVIDE 3/4-INCH CHAMFER ON ALL EXPOSED CORNERS OF CONCRETE ELEMENTS.

CHEMICAL GROUT INJECTION:

- SELECTED CRACKS IDENTIFIED BY ENGINEER IN POST-TENSIONED BEAMS THAT ARE WIDER THAN 0.01-INCHES SHALL BE INJECTED WITH CHEMICAL GROUT MATERIAL.
- CHEMICAL GROUT MATERIAL SHALL BE A ONE-COMPONENT, WATER-ACTIVATED POLYURETHANE HYDROPHOBIC INJECTION GROUT CAPABLE OF 700 PERCENT EXPANSION. POLYURETHANE GROUT SHALL FORM A TOUGH RIGID FOAM SEAL THAT IS IMPENETRABLE TO WATER.
- PRODUCTS:
 - GCP APPLIED TECHNOLOGIES; DE NEEF FLEX SLV PURE
 - SIKA CORP.; SIKAFIX HH PLUS
 - OR ENGINEER'S APPROVED EQUIVALENT PRODUCT
- INSTALL INJECTION PORTS ALONG THE CRACK AT 6-INCHES ON-CENTERS, ALTERNATING SIDES OF THE CRACK. INSTALL PORTS DRILLED HOLES AT MINIMUM OF 4-INCHES FROM THE CRACK. THE DRILLED HOLES SHALL BE ANGLED TO INTERSECT THE CRACK. INJECT CHEMICAL GROUT INTO PORTS PER MATERIAL MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES.
- VERTICAL CRACKS SHALL BE INJECTED STARTING AT THE LOWEST POINT AND WORKING UPWARD ON THE VERTICAL SURFACE. HORIZONTAL CRACK INJECTION SHALL START FROM ONE OF THE CRACK WORKING TO THE OPPOSITE END. SPACING OF PORTS SHALL BE ADJUSTED IN THE FIELD BASED ON RESULTS OF THE CHEMICAL GROUT INJECTION PROCESS. ENSURE COMPLETE AND CONTINUOUS SEAL OF THE CRACK TO PREVENT WATER LEAKS.

BARRIER CABLE REPAIRS:

- BARRIER CABLE REPAIRS CONSIST OF REPLACEMENT OF IDENTIFIED DE-TENSIONED CABLES ON ALL LEVELS AND REPLACEMENT OF PLASTIC COVERING ON BARRIER CABLES ON LEVELS 5.0, 5.5 AND 6.0 WHERE NOT COVERED BY STRUCTURE.
- DE-TENSIONED BARRIER CABLES SHALL BE REPLACED IN KIND COMPLYING WITH THE REQUIREMENTS OF ASTM A416, POST-TENSIONING INSTITUTES' "SPECIFICATION FOR SEVEN - WIRE STEEL STRAND FOR BARRIER CABLE APPLICATIONS" (PTM10.4-07) AND AS SHOWN ON THE REPAIR DRAWINGS.
- THE REPLACEMENT PRESTRESSING STRAND SHALL HAVE ZINC GALVANIZING PER ASTM A 475, CLASS A, TABLE 2 COATING WEIGHT OR ZINC ALUMINUM COATING COMPLYING WITH ASTM A 855, CLASS A.
- REPLACEMENT BARRIER CABLE SHALL HAVE ANCHORAGE COMPONENTS COMPLYING WITH POST-TENSIONING INSTITUTES' "SPECIFICATION FOR SEVEN - WIRE STEEL STRAND FOR BARRIER CABLE APPLICATIONS" (PTM10.4-07).
- REPLACEMENT OF DETERIORATED PLASTIC COATING SHALL CONSIST OF REMOVAL OF EXISTING DETERIORATING PLASTIC COATING, ABRASIVE-GRIT BLAST TO REMOVE RUST ON THE EXPOSED STEEL PRESTRESSING STRAND AND APPLICATION OF THREE, 4 DRY MIL COATS (12 MILS TOTAL) OF "GALVANOX II" MANUFACTURED BY PYROLAC (PYROLAC.US.COM).



PROJECT

ADMINISTRATION BUILDING
PARKING GARAGE REPAIRS

401 NORTH WEST STREET
JACKSON, MS 39201

CLIENT

MISSISSIPPI DEPARTMENT
OF TRANSPORTATION

401 NORTH WEST STREET
JACKSON, MS 39201

REGISTRATION

ISSUE/REVISION

IR	DATE	DESCRIPTION

PROJECT NUMBER

60765327

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

PS-002

EXPOXY CRACK INJECTION:

PART 1 - GENERAL

1.1 SUMMARY

A. SECTION INCLUDES EPOXY CRACK INJECTION.

1.2 ACTION SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT.

1. INCLUDE CONSTRUCTION DETAILS, MATERIAL DESCRIPTIONS, CHEMICAL COMPOSITION, PHYSICAL PROPERTIES, TEST DATA, AND MIXING, PREPARATION, AND APPLICATION INSTRUCTIONS.

1.3 INFORMATIONAL SUBMITTALS

A. QUALIFICATION DATA: FOR CONCRETE-MAINTENANCE SPECIALIST AND MANUFACTURERS.
B. MATERIAL CERTIFICATES: FOR EACH TYPE OF CRACK INJECTION EPOXY GROUT SUPPLIED FOR MIXING OR ADDING TO PRODUCTS AT PROJECT SITE.
C. PRODUCT TEST REPORTS: FOR EACH CRACK-INJECTION EPOXY GROUT, FOR TESTS PERFORMED BY MANUFACTURER AND WITNESSED BY A QUALIFIED TESTING AGENCY.

1.4 QUALITY ASSURANCE

A. MANUFACTURER QUALIFICATIONS: EACH CRACK INJECTION EPOXY GROUT MANUFACTURER SHALL EMPLOY FACTORY-AUTHORIZED SERVICE REPRESENTATIVES WHO ARE AVAILABLE FOR CONSULTATION AND PROJECT-SITE INSPECTION AND ON-SITE ASSISTANCE.
B. CONCRETE-MAINTENANCE SPECIALIST QUALIFICATIONS: ENGAGE AN EXPERIENCED CONCRETE-MAINTENANCE FIRM THAT EMPLOYS INSTALLERS AND SUPERVISORS WHO ARE TRAINED AND APPROVED BY MANUFACTURER TO APPLY CRACK INJECTION EPOXY GROUT TO PERFORM WORK OF THIS SECTION. FIRM SHALL HAVE COMPLETED WORK SIMILAR IN MATERIAL DESIGN, AND EXTENT TO THAT INDICATED FOR THIS PROJECT WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE. EXPERIENCE IN ONLY INSTALLING OR PATCHING NEW CONCRETE IS INSUFFICIENT EXPERIENCE FOR CONCRETE-MAINTENANCE WORK.

1. FIELD SUPERVISION: CONCRETE-MAINTENANCE SPECIALIST FIRM SHALL MAINTAIN EXPERIENCED FULL-TIME SUPERVISORS ON PROJECT SITE DURING TIMES THAT CONCRETE-MAINTENANCE WORK IS IN PROGRESS.

C. QUALITY-CONTROL PROGRAM: PREPARE A WRITTEN PLAN FOR CONCRETE MAINTENANCE TO SYSTEMATICALLY DEMONSTRATE THE ABILITY OF PERSONNEL TO PROPERLY PERFORM MAINTENANCE WORK, INCLUDING EACH PHASE OR PROCESS, PROTECTION OF SURROUNDING MATERIALS DURING OPERATIONS, AND CONTROL OF DEBRIS AND RUNOFF DURING THE WORK. DESCRIBE IN DETAIL MATERIALS, METHODS, EQUIPMENT, AND SEQUENCE OF OPERATIONS TO BE USED FOR EACH PHASE OF THE WORK.

1.5 DELIVERY, STORAGE, AND HANDLING

A. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR MINIMUM AND MAXIMUM TEMPERATURE REQUIREMENTS AND OTHER CONDITIONS FOR STORAGE.
B. STORE CEMENTITIOUS MATERIALS OFF THE GROUND, UNDER COVER, AND IN A DRY LOCATION.
C. STORE AGGREGATES COVERED AND IN A DRY LOCATION; MAINTAIN GRADING AND OTHER REQUIRED CHARACTERISTICS AND PREVENT CONTAMINATION.

1.6 FIELD CONDITIONS

A. ENVIRONMENTAL LIMITATIONS FOR EPOXIES: DO NOT APPLY WHEN AIR AND SUBSTRATE TEMPERATURES ARE OUTSIDE LIMITS PERMITTED BY MANUFACTURER. DURING HOT WEATHER, COOL EPOXY COMPONENTS BEFORE MIXING, STORE MIXED PRODUCTS IN SHADE, AND COOL UNUSED MIXED PRODUCTS TO RETARD SETTING. DO NOT APPLY TO WET SUBSTRATES UNLESS APPROVED BY MANUFACTURER.

1. USE ONLY CLASS A EPOXIES WHEN SUBSTRATE TEMPERATURES ARE BELOW OR ARE EXPECTED TO GO BELOW 40 DEG F WITHIN EIGHT HOURS.
2. USE ONLY CLASS A OR B EPOXIES WHEN SUBSTRATE TEMPERATURES ARE BELOW OR ARE EXPECTED TO GO BELOW 60 DEG F WITHIN EIGHT HOURS.
3. USE ONLY CLASS C EPOXIES WHEN SUBSTRATE TEMPERATURES ARE ABOVE AND ARE EXPECTED TO STAY ABOVE 60 DEG F FOR EIGHT HOURS.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. SOURCE LIMITATIONS: FOR REPAIR PRODUCTS, OBTAIN EACH COLOR, GRADE, FINISH TYPE, AND VARIETY OF PRODUCT FROM SINGLE SOURCE AND FROM SINGLE MANUFACTURER WITH RESOURCES TO PROVIDE PRODUCTS OF CONSISTENT QUALITY IN APPEARANCE AND PHYSICAL PROPERTIES.

2.2 EPOXY CRACK-INJECTION MATERIALS

A. EPOXY CRACK-INJECTION ADHESIVE: ASTM C881/C881M, BONDING SYSTEM TYPE IV FREE OF VOCs.

1. SIKADUR 31 GEL BY SIKA FOR CONCRETE SEAL.
2. SIKADUR 35 HI-MOD POXY FOR CRACK INJECTION
3. CAPPING ADHESIVE: PRODUCT MANUFACTURED FOR USE WITH CRACK-INJECTION ADHESIVE BY SAME MANUFACTURER.

2.3 MISCELLANEOUS MATERIALS

A. WATER: POTABLE.

2.4 MIXES

A. GENERAL: MIX PRODUCTS IN CLEAN CONTAINERS, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

1. DO NOT ADD WATER, THINNERS, OR ADDITIVES UNLESS RECOMMENDED BY MANUFACTURER.
2. WHEN PRACTICAL, USE MANUFACTURER'S PREMEASURED PACKAGES TO ENSURE THAT MATERIALS ARE MIXED IN PROPER PROPORTIONS. WHEN PREMEASURED PACKAGES ARE NOT USED, MEASURE INGREDIENTS USING GRADUATED MEASURING CONTAINERS; DO NOT ESTIMATE QUANTITIES OR USE SHOVEL OR TROWEL AS UNIT OF MEASURE.
3. DO NOT MIX MORE MATERIALS THAN CAN BE USED WITHIN TIME LIMITS RECOMMENDED BY MANUFACTURER. DISCARD MATERIALS THAT HAVE BEGUN TO SET.

EXPOXY CRACK INJECTION CONT.:

B. MORTAR SCRUB COAT: MIX DRY INGREDIENTS WITH ENOUGH WATER TO PROVIDE CONSISTENCY OF THICK CREAM.

C. DRY-PACK MORTAR: MIX REQUIRED TYPE(S) OF PATCHING-MORTAR DRY INGREDIENTS WITH JUST ENOUGH LIQUID TO FORM DAMP COHESIVE MIXTURE THAT CAN BE SQUEEZED BY HAND INTO A BALL BUT IS NOT PLASTIC.

PART 3 - EXECUTION

3.1 CONCRETE MAINTENANCE

A. HAVE CONCRETE-MAINTENANCE WORK PERFORMED ONLY BY QUALIFIED CONCRETE-MAINTENANCE SPECIALIST.
B. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR SURFACE PREPARATION AND PRODUCT APPLICATION.

3.2 EXAMINATION

A. NOTIFY ENGINEER SEVEN DAYS IN ADVANCE OF DATES WHEN AREAS OF DETERIORATED OR DELAMINATED CONCRETE AND DETERIORATED REINFORCING BARS WILL BE LOCATED.
B. LOCATE AREAS OF DETERIORATED OR DELAMINATED CONCRETE USING HAMMER OR CHAIN-DRAG SOUNDING AND MARK BOUNDARIES. MARK AREAS FOR REMOVAL BY SIMPLIFYING AND SQUARING OFF BOUNDARIES. AT COLUMNS AND WALLS MAKE BOUNDARIES LEVEL AND PLUMB UNLESS OTHERWISE INDICATED.
C. PERFORM SURVEYS AS THE WORK PROGRESSES TO DETECT HAZARDS RESULTING FROM CONCRETE-MAINTENANCE WORK.

3.3 PREPARATION

A. ENSURE THAT SUPERVISORY PERSONNEL ARE ON-SITE AND ON DUTY WHEN CONCRETE MAINTENANCE WORK BEGINS AND DURING ITS PROGRESS.
B. PROTECT PERSONS, MOTOR VEHICLES, SURROUNDING SURFACES OF BUILDING BEING REPAIRED, BUILDING SITE, PLANTS, AND SURROUNDING BUILDINGS FROM HARM RESULTING FROM CONCRETE MAINTENANCE WORK.

1. COMPLY WITH EACH PRODUCT MANUFACTURER'S WRITTEN INSTRUCTIONS FOR PROTECTIONS AND PRECAUTIONS. PROTECT AGAINST ADVERSE EFFECTS OF PRODUCTS AND PROCEDURES ON PEOPLE AND ADJACENT MATERIALS, COMPONENTS, AND VEGETATION.
2. USE ONLY PROVEN PROTECTION METHODS APPROPRIATE TO EACH AREA AND SURFACE BEING PROTECTED.
3. PROVIDE TEMPORARY BARRICADES, BARRIERS, AND DIRECTIONAL SIGNAGE TO EXCLUDE PUBLIC FROM AREAS WHERE CONCRETE MAINTENANCE WORK IS BEING PERFORMED.
4. ERECT TEMPORARY PROTECTIVE COVERS OVER WALKWAYS AND AT POINTS OF PEDESTRIAN AND VEHICULAR ENTRANCE AND EXIT THAT MUST REMAIN IN SERVICE DURING COURSE OF CONCRETE MAINTENANCE WORK.
5. CONTAIN DUST AND DEBRIS GENERATED BY CONCRETE MAINTENANCE WORK AND PREVENT IT FROM REACHING THE PUBLIC OR ADJACENT SURFACES.
6. PROTECT FLOORS AND OTHER SURFACES ALONG HAUL ROUTES FROM DAMAGE, WEAR, AND STAINING.
7. PROVIDE SUPPLEMENTAL SOUND-CONTROL TREATMENT TO ISOLATE REMOVAL AND DISMANTLING WORK FROM OTHER AREAS OF THE BUILDING.
8. PROTECT ADJACENT SURFACES AND EQUIPMENT BY COVERING THEM WITH HEAVY POLYETHYLENE FILM AND WATERPROOF MASKING TAPE OR A LIQUID STRIPPABLE MASKING AGENT. IF PRACTICAL, REMOVE ITEMS, STORE, AND REINSTALL AFTER POTENTIALLY DAMAGING OPERATIONS ARE COMPLETE.
9. NEUTRALIZE AND COLLECT ALKALINE AND ACID WASTES FOR DISPOSAL OFF OWNER'S PROPERTY.
10. DISPOSE OF DEBRIS AND RUNOFF FROM OPERATIONS BY LEGAL MEANS AND IN A MANNER THAT PREVENTS SOIL EROSION, UNDERMINING OF PAVING AND FOUNDATIONS, DAMAGE TO LANDSCAPING, AND WATER PENETRATION INTO BUILDING INTERIORS.

C. EXISTING DRAINS: PRIOR TO THE START OF WORK IN AN AREA TEST DRAINAGE SYSTEM TO ENSURE THAT IT IS FUNCTIONING PROPERLY. NOTIFY ENGINEER IMMEDIATELY OF INADEQUATE DRAINAGE OR BLOCKAGE. DO NOT BEGIN WORK IN AN AREA UNTIL THE DRAINAGE SYSTEM IS IN WORKING ORDER.

1. PREVENT SOLIDS SUCH AS AGGREGATE OR MORTAR RESIDUE FROM ENTERING THE DRAINAGE SYSTEM. CLEAN OUT DRAINS AND DRAIN LINES THAT BECOME SLUGGISH OR BLOCKED BY SAND OR OTHER MATERIALS RESULTING FROM CONCRETE MAINTENANCE WORK.
2. PROTECT DRAINS FROM POLLUTANTS. BLOCK DRAINS OR FILTER OUT SEDIMENTS, ALLOWING ONLY CLEAN WATER TO PASS.

3.4 EPOXY CRACK INJECTION

A. CLEAN CRACKS WITH OIL-FREE COMPRESSED AIR OR LOW-PRESSURE WATER TO REMOVE LOOSE PARTICLES.
B. CLEAN AREAS TO RECEIVE CAPPING ADHESIVE OF OIL, DIRT, AND OTHER SUBSTANCES THAT WOULD INTERFERE WITH BOND.
C. PLACE INJECTION PORTS AS RECOMMENDED BY EPOXY MANUFACTURER, SPACING NO FARTHER APART THAN THICKNESS OF MEMBER BEING INJECTED. SEAL INJECTION PORTS IN PLACE WITH CAPPING ADHESIVE.
D. SEAL CRACKS AT EXPOSED SURFACES WITH A RIBBON OF CAPPING ADHESIVE AT LEAST 1/4 INCH THICK BY 1 INCH WIDER THAN CRACK.
E. INJECT CRACKS WIDER THAN 0.01 INCH TO A DEPTH OF 4 INCHES.
F. INJECT EPOXY ADHESIVE, BEGINNING AT WIDEST PART OF CRACK AND WORKING TOWARD NARROWER PARTS. INJECT ADHESIVE INTO PORTS TO REFUSAL, CAPPING ADJACENT PORTS WHEN THEY EXTRUDE EPOXY. CAP INJECTED PORTS AND INJECT THROUGH ADJACENT PORTS UNTIL CRACK IS FILLED.
G. AFTER EPOXY ADHESIVE HAS SET, REMOVE INJECTION PORTS AND GRIND SURFACES SMOOTH.

3.5 FIELD QUALITY CONTROL

A. PERFORM THE FOLLOWING TESTS AND INSPECTIONS:

1. EPOXY CRACK INJECTION: CORE-DRILLED SAMPLES TO VERIFY PROPER INSTALLATION.
a. TESTING FREQUENCY: ONE SAMPLE FOR EACH 100 FEET OF CRACK INJECTED.
b. WHERE SAMPLES ARE TAKEN, REFILL HOLES WITH EPOXY MORTAR.
B. PRODUCT WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.
C. PREPARE TEST AND INSPECTION REPORTS.

CONCRETE PATCHING MORTAR:

PART 1 - GENERAL

1.01 SUMMARY

A. SECTION INCLUDES:

1. POLYMER MODIFIED, CEMENTITIOUS, FAST SETTING, MORTAR FOR REPAIR OF CONCRETE SURFACES.

1.02 SUBMITTALS

A. PRODUCT DATA:

1. MANUFACTURER'S LITERATURE.

PART 2 - PRODUCTS

2.01 MATERIALS

A. MANUFACTURERS:

1. SIKATOP 123 PLUS, BY SIKA CORPORATION.
2. SIKAMACO ONEMIX BASE MATERIAL, BY SIKA CORPORATION
3. ENGINEER'S APPROVED EQUIVALENT.

B. POLYMER MODIFIED CEMENTITIOUS SYSTEM CONSISTING OF 2 COMPONENTS.

1. COMPONENT A: LIQUID POLYMER EMULSION OF ACRYLIC COPOLYMER BASE AND ADDITIVES.
2. COMPONENT B: BLEND OF SELECTED PORTLAND CEMENTS, SPECIALLY GRADED AGGREGATES, ORGANIC ACCELERATOR, AND ADMIXTURES FOR CONTROLLING SETTING TIME, WATER REDUCERS FOR WORKABILITY, AND CORROSION INHIBITOR.
3. SYSTEM SHALL NOT CONTAIN CHLORIDES, NITRATES, ADDED GYPSUM, ADDED LIME OR HIGH ALUMINA CEMENTS. SYSTEM SHALL BE NONCOMBUSTIBLE, BEFORE OR AFTER CURE.
4. COLOR: CONCRETE GRAY.
5. MINIMUM COMPRESSIVE STRENGTH: 5,000 PSI.
6. BOND STRENGTH: 100% CONCRETE SUBSTRATE FAILURE (PULL OFF METHOD), MINIMUM 400 PSI.
7. SYSTEM SHALL NOT PRODUCE VAPOR BARRIER, SHALL BE THERMALLY COMPATIBLE WITH CONCRETE, AND FREEZE THAW RESISTANT.

PART 3 - EXECUTION

3.01 PREPARATION

A. REFER TO CONCRETE REPAIR NOTES.

3.02 APPLICATION

A. APPLY AND CURE PATCHING MORTAR IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.

EPOXY GROUT:

PART 1 - GENERAL

1.01 SUMMARY

A. SECTION INCLUDES:

1. MATERIAL FOR GROUTING REINFORCING BARS WHERE NOTED.

1.02 SUBMITTALS

A. PRODUCT DATA:

1. MANUFACTURER'S LITERATURE.

PART 2 - PRODUCTS

2.01 MATERIALS

A. EPOXY:

1. MANUFACTURERS:
A. HILTIHIT HY-150 BY HILTI CORPORATION.
B. C6+ BY ITW RAMSET/RED HEAD.
C. C 100+ GOLD BY DEWALT ANCHORS & FASTENERS.

PART 3 - EXECUTION

3.01 PREPARATION

A. CLEAN CONTACT SURFACES OF OIL, GREASE, AND OTHER FOREIGN MATTER. CHIP AWAY UNSOUND CONCRETE.

3.02 MIXING

A. MIX COMPONENTS OF EPOXY COMPOUND AS DIRECTED BY MANUFACTURER'S INSTRUCTIONS.

3.03 PLACING

A. PLACE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS FOLLOWING REQUIREMENTS REGARDING TEMPERATURE AND POT LIFE.

B. PROVIDE SUITABLE MATERIALS WHERE NECESSARY TO RETAIN GROUT UNTIL HARDENED.

3.04 CURING

A. CURE AS RECOMMENDED BY MANUFACTURER.

TRAFFIC COATINGS:

PART 1 - GENERAL

1.01 DESCRIPTION:

A. PROVIDE TRAFFIC COATINGS AS INDICATED AND IN COMPLIANCE WITH CONTRACT DOCUMENTS.
B. SECTION INCLUDES TRAFFIC COATINGS AND PAVEMENT MARKINGS FOR THE FOLLOWING APPLICATIONS:

1. VEHICULAR TRAFFIC.

1.02 REFERENCES:

A. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO):

1. M247: STANDARD SPECIFICATION FOR GLASS BEADS USED IN PAVEMENT MARKINGS
2. M248: STANDARD SPECIFICATION FOR READY-MIXED WHITE AND YELLOW TRAFFIC PAINTS

B. ASTM INTERNATIONAL (ASTM):

1. C920: STANDARD SPECIFICATION FOR ELASTOMERIC JOINT SEALANTS.
2. C957: STANDARD SPECIFICATION FOR HIGH-SOLIDS CONTENT, COLD LIQUID-APPLIED ELASTOMERIC WATERPROOFING MEMBRANE WITH INTEGRAL WEARING SURFACE
3. C1127: STANDARD GUIDE FOR USE OF HIGH SOLIDS CONTENT, COLD LIQUID-APPLIED ELASTOMERIC WATERPROOFING MEMBRANE WITH AN INTEGRAL WEARING SURFACE
4. C1193: STANDARD GUIDE FOR USE OF JOINT SEALANTS
5. D4258: STANDARD PRACTICE FOR SURFACE CLEANING CONCRETE FOR COATING
6. D4259: STANDARD PRACTICE FOR ABRADING CONCRETE
7. D4263: STANDARD TEST METHOD FOR INDICATING MOISTURE IN CONCRETE BY THE PLASTIC SHEET METHOD
8. E108: STANDARD TEST METHODS FOR FIRE TESTS OF ROOF COVERINGS

C. FEDERAL REGULATIONS:

1. 40 CFR 59: NATIONAL VOLATILE ORGANIC COMPOUND EMISSION STANDARDS FOR CONSUMER AND COMMERCIAL PRODUCTS
2. TT-B-1325D: BEADS (GLASS SPHERES) RETRO-REFLECTIVE
3. TT-P-1952E: PAINT, TRAFFIC AND AIRFIELD MARKING, WATERBORNE

1.03 PREINSTALLATION MEETINGS:

A. PREINSTALLATION CONFERENCE: CONDUCT CONFERENCE AT PROJECT SITE.

1.04 SUBMITTALS:

A. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH SECTION 0133 00.
B. PRODUCT DATA: FOR EACH TYPE OF PRODUCT, INCLUDING INSTALLATION INSTRUCTIONS.
C. SHOP DRAWINGS: FOR TRAFFIC COATINGS.

1. INCLUDE DETAILS FOR TREATING SUBSTRATE JOINTS AND CRACKS, FLASHINGS, DECK PENETRATIONS, AND OTHER TERMINATION CONDITIONS.
2. INCLUDE PLANS SHOWING LAYOUT OF PAVEMENT MARKINGS, LANE SEPARATIONS, AND DEFINED PARKING SPACES. INDICATE, WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY, SPACES ALLOCATED FOR PEOPLE WITH DISABILITIES.

D. SAMPLES FOR INITIAL SELECTION: FOR EACH TYPE OF EXPOSED FINISH.
E. SAMPLES FOR VERIFICATION: FOR EACH TYPE OF EXPOSED FINISH, PREPARED ON RIGID BACKING.

1. MATERIAL TEST REPORTS: FROM A QUALIFIED INDEPENDENT TESTING AGENCY INDICATING AND INTERPRETING TEST RESULTS FOR COMPLIANCE OF TRAFFIC COATINGS WITH REQUIREMENTS, BASED ON COMPREHENSIVE TESTING OF CURRENT PRODUCT FORMULATIONS WITHIN THE LAST THREE YEARS.
2. MATERIAL CERTIFICATES: SIGNED BY MANUFACTURER CERTIFYING THAT TRAFFIC COATINGS COMPLY WITH REQUIREMENTS, BASED ON COMPREHENSIVE TESTING OF CURRENT PRODUCT FORMULATIONS WITHIN THE LAST THREE YEARS.
3. MAINTENANCE DATA: TO INCLUDE IN MAINTENANCE MANUALS SPECIFIED IN DIVISION 1. IDENTIFY SUBSTRATES AND TYPES OF TRAFFIC COATINGS APPLIED. INCLUDE RECOMMENDATIONS FOR PERIODIC INSPECTIONS, CLEANING, CARE, MAINTENANCE, AND REPAIR OF TRAFFIC COATINGS.
4. PROVIDE STEPPED SAMPLES ON BACKING TO ILLUSTRATE BUILDUP OF TRAFFIC COATINGS.

F. QUALIFICATION DATA: FOR INSTALLER.
G. PRODUCT CERTIFICATES: FOR EACH TYPE OF TRAFFIC COATING.
H. FIELD QUALITY-CONTROL REPORTS.
I. SAMPLE WARRANTY: FOR SPECIAL WARRANTY.
J. MAINTENANCE DATA: FOR TRAFFIC COATINGS TO INCLUDE IN MAINTENANCE MANUALS.

1.06 QUALITY ASSURANCE:

A. INSTALLER QUALIFICATIONS: AN EXPERIENCED APPLICATOR WHO HAS SPECIALIZED IN INSTALLING WORK SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR THIS PROJECT AND WHO IS CERTIFIED BY MANUFACTURER.

1. CERTIFICATION: WRITTEN APPROVAL OR LICENSE OF APPLICATOR BY TRAFFIC COATING MANUFACTURER.

B. SOURCE LIMITATIONS: AS FOLLOWS:

1. USE TRAFFIC COATINGS OF A SINGLE MANUFACTURER.
2. OBTAIN PRIMARY TRAFFIC COATING MATERIALS, INCLUDING PRIMERS, FROM TRAFFIC COATING MANUFACTURER; OBTAIN SECONDARY MATERIALS INCLUDING AGGREGATES, SHEET FLASHINGS, JOINT SEALANTS, AND SUBSTRATE REPAIR MATERIALS OF TYPE AND FROM SOURCE RECOMMENDED BY TRAFFIC COATING MANUFACTURER.

C. PREINSTALLATION CONFERENCE: CONDUCT CONFERENCE AT PROJECT SITE 7 WORKING DAYS BEFORE INSTALLATION IS SCHEDULED TO BEGIN.

1. BEFORE INSTALLING TRAFFIC COATINGS, MEET WITH REPRESENTATIVES OF AUTHORITIES HAVING JURISDICTION, MANUFACTURER'S TECHNICAL REPRESENTATIVE, OWNER, ENGINEER, CONSULTANTS, INDEPENDENT TESTING AGENCY, AND OTHER CONCERNED ENTITIES. REVIEW REQUIREMENTS FOR TRAFFIC COATINGS. NOTIFY PARTICIPANTS AT LEAST SEVEN DAYS BEFORE CONFERENCE.
2. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, APPROVED MOCKUPS MAY BECOME PART OF THE COMPLETED WORK IF UNDISTURBED AT TIME OF SUBSTANTIAL COMPLETION.



PROJECT

ADMINISTRATION BUILDING
PARKING GARAGE REPAIRS

401 NORTH WEST STREET
JACKSON, MS 39201

CLIENT

MISSISSIPPI DEPARTMENT
OF TRANSPORTATION

401 NORTH WEST STREET
JACKSON, MS 39201

REGISTRATION

ISSUE/REVISION

NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION

PROJECT NUMBER

60765327

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

PS-003

TRAFFIC COATINGS CONT.:

- 1.07 DELIVERY STORAGE AND HANDLING:
 - A. DELIVER MATERIALS IN ORIGINAL PACKAGES AND CONTAINERS WITH SEALS UNBROKEN AND BEARING MANUFACTURER'S LABELS SHOWING THE FOLLOWING INFORMATION:
 1. MANUFACTURER'S BRAND NAME.
 2. TYPE OF MATERIAL.
 3. DIRECTIONS FOR STORAGE.
 4. DATE OF MANUFACTURE AND SHELF LIFE.
 5. LOT OR BATCH NUMBER.
 6. MIXING AND APPLICATION INSTRUCTIONS.
 7. COLOR.
 - B. STORE MATERIALS IN A CLEAN, DRY LOCATION PROTECTED FROM EXPOSURE TO DIRECT SUNLIGHT. IN STORAGE AREAS, MAINTAIN ENVIRONMENTAL CONDITIONS WITHIN RANGE RECOMMENDED IN WRITING BY MANUFACTURER.

- 1.08 PROJECT/SITE CONDITIONS:
 - A. ENVIRONMENTAL LIMITATIONS: APPLY TRAFFIC COATINGS WITHIN THE RANGE OF AMBIENT AND SUBSTRATE TEMPERATURES RECOMMENDED IN WRITING BY MANUFACTURER. DO NOT APPLY TRAFFIC COATINGS TO DAMP OR WET SUBSTRATES, WHEN TEMPERATURES ARE BELOW 40 DEGREES F (5 DEGREES C), WHEN RELATIVE HUMIDITY EXCEEDS 85 PERCENT, OR WHEN TEMPERATURES ARE LESS THAN 5 DEGREES F (3 DEGREES C) ABOVE DEW POINT.
 1. DO NOT APPLY TRAFFIC COATINGS IN SNOW, RAIN, FOG, OR MIST, OR WHEN SUCH WEATHER CONDITIONS ARE IMMINENT DURING THE APPLICATION AND CURING PERIOD. APPLY ONLY WHEN FROST-FREE CONDITIONS OCCUR THROUGHOUT THE DEPTH OF SUBSTRATE.
 - B. DO NOT INSTALL TRAFFIC COATING UNTIL ITEMS THAT PENETRATE MEMBRANE HAVE BEEN INSTALLED.
 - C. PAVEMENT-MARKING PAINT: PROCEED WITH PAVEMENT MARKING ONLY ON CLEAN, DRY SURFACES AND AT A MINIMUM AMBIENT OR SURFACE TEMPERATURE OF 40 DEGREES F (4.4 DEGREES C) FOR OIL-BASED MATERIALS OR 50 DEGREES F (10 DEGREES C) FOR WATER-BASED MATERIALS, AND NOT EXCEEDING 95 DEGREES F (35 DEGREES C).

- 1.09 WARRANTY:
 - A. GENERAL WARRANTY: SPECIAL WARRANTY SPECIFIED IN THIS ARTICLE SHALL NOT DEPRIVE OWNER OF OTHER RIGHTS OWNER MAY HAVE UNDER OTHER PROVISIONS OF THE CONTRACT DOCUMENTS AND SHALL BE IN ADDITION TO, AND RUN CONCURRENT WITH, OTHER WARRANTIES MADE BY CONTRACTOR UNDER REQUIREMENTS OF THE CONTRACT DOCUMENTS.
 - B. SPECIAL WARRANTY: WRITTEN WARRANTY, SIGNED BY TRAFFIC COATING MANUFACTURER AGREEING TO REPAIR OR REPLACE TRAFFIC COATINGS THAT DO NOT COMPLY WITH REQUIREMENTS OR THAT DETERIORATE DURING THE SPECIFIED WARRANTY PERIOD. WARRANTY DOES NOT INCLUDE DETERIORATION OR FAILURE OF TRAFFIC COATING DUE TO UNUSUAL WEATHER PHENOMENA, FAILURE OF PREPARED AND TREATED SUBSTRATE, FORMATION OF NEW SUBSTRATE CRACKS EXCEEDING 1/16-INCH (1.6 MM) IN WIDTH, FIRE, VANDALISM, OR ABUSE BY SNOWBLOW, MAINTENANCE EQUIPMENT, AND TRUCK TRAFFIC.
 1. FAILURES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
 - A. ADHESIVE OR COHESIVE FAILURES
 - B. ABRASION OR TEARING FAILURES.
 - C. SURFACE CRAZING OR SPALLING.
 - D. INTRUSION OF WATER, OILS, GASOLINE, GREASE, SALT, DEICER CHEMICALS, OR ACIDS INTO DECK SUBSTRATE.
 2. WARRANTY PERIOD: FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

PART 2 - PRODUCTS

- 2.01 MATERIALS, GENERAL:
 - A. MATERIAL COMPATIBILITY: PROVIDE PRIMERS, BASE, INTERMEDIATE, TOPCOAT, AND ACCESSORY MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH SUBSTRATE UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.
 - B. SOURCE LIMITATIONS:
 1. OBTAIN TRAFFIC COATINGS FROM SINGLE SOURCE FROM SINGLE MANUFACTURER.
 2. OBTAIN PRIMARY TRAFFIC COATING MATERIALS, INCLUDING PRIMERS, FROM TRAFFIC COATING MANUFACTURER. OBTAIN ACCESSORY MATERIALS INCLUDING AGGREGATES, SHEET FLASHINGS, JOINT SEALANTS, AND SUBSTRATE REPAIR MATERIALS OF TYPES AND FROM SOURCES RECOMMENDED IN WRITING BY PRIMARY MATERIAL MANUFACTURER.
 3. OBTAIN PAVEMENT-MARKING PAINT FROM SINGLE SOURCE FROM SINGLE MANUFACTURER.
- 2.02 TRAFFIC COATING :
 - A. TRAFFIC COATING: MANUFACTURER'S STANDARD, TRAFFIC-BEARING, SEAMLESS, HIGH-SOLIDS-CONTENT, COLD LIQUID-APPLIED, ELASTOMERIC, WATERPROOFING MEMBRANE SYSTEM WITH INTEGRAL WEARING SURFACE FOR VEHICULAR TRAFFIC: ACCORDING TO ASTM C957.
 1. MANUFACTURERS:
 - A. SIKA CORPORATION.
 - B. CARLISLE COATINGS & WATERPROOFING INC.
 - C. LYMTAL INTERNATIONAL INC.
 - B. PRIMER: LIQUID WATERBORNE OR SOLVENT-BORNE PRIMER RECOMMENDED FOR SUBSTRATE AND CONDITIONS BY TRAFFIC-COATING MANUFACTURER.
 1. MATERIAL: URETHANE.
 - C. PREPARATORY AND BASE COATS: POLYURETHANE.
 1. THICKNESSES: MINIMUM DRY OR WET FILM THICKNESS AS RECOMMENDED IN WRITING BY MANUFACTURER FOR SUBSTRATE AND SERVICE CONDITIONS INDICATED.
 - D. INTERMEDIATE COAT: POLYURETHANE.
 1. THICKNESSES: MINIMUM DRY OR WET FILM THICKNESS AS RECOMMENDED IN WRITING BY MANUFACTURER FOR SUBSTRATE AND SERVICE CONDITIONS INDICATED, MEASURED EXCLUDING AGGREGATE.

TRAFFIC COATINGS CONT.:

- 2. AGGREGATE CONTENT: AS RECOMMENDED IN WRITING BY TRAFFIC-COATING MANUFACTURER FOR SUBSTRATE AND SERVICE CONDITIONS INDICATED NOT LESS THAN 8 TO 10 LB/100 SQ. FT. (3.6 TO 4.5 KG/10 SQ. M) OR TO REFUSAL.
- E. TOPCOAT: POLYURETHANE.
 1. THICKNESSES: MINIMUM DRY OR WET FILM THICKNESS AS RECOMMENDED IN WRITING BY MANUFACTURER FOR SUBSTRATE AND SERVICE CONDITIONS INDICATED, MEASURED EXCLUDING AGGREGATE.
 2. AGGREGATE CONTENT: AS RECOMMENDED IN WRITING BY TRAFFIC-COATING MANUFACTURER FOR SUBSTRATE AND SERVICE CONDITIONS INDICATED AS REQUIRED TO CHIEVE SLIP-RESISTANT FINISH OR TO REFUSAL.
 3. COLOR: TO MATCH EXISTING COLOR OF DECKING COATING INSTALLED AT THE SITE.
- F. AGGREGATE: MANUFACTURER'S STANDARD AGGREGATE FOR EACH USE INDICATED OF PARTICLE SIZES, SHAPE, AND MINIMUM HARDNESS RECOMMENDED IN WRITING BY TRAFFIC-COATING MANUFACTURER.
- 2.03 ACCESSORY MATERIALS:
 - A. JOINT SEALANTS: AS SPECIFIED IN DIVISION 7 "JOINT SEALANTS.", ASTM C 920.
 - B. SHEET FLASHING: NONSTAINING SHEET MATERIAL RECOMMENDED IN WRITING BY TRAFFIC-COATING MANUFACTURER.
 1. THICKNESS: MINIMUM 60 MILS.
 - C. ADHESIVE: CONTACT ADHESIVE RECOMMENDED IN WRITING BY TRAFFIC-COATING MANUFACTURER.
 - D. REINFORCING STRIP: FIBERGLASS MESH RECOMMENDED IN WRITING BY TRAFFIC-COATING MANUFACTURER.
- 2.04 PAVEMENT MARKINGS:
 - A. PAVEMENT-MARKING PAINT: MPI*32 ALKYD TRAFFIC MARKING PAINT.
 1. COLOR: MATCH EXISTING COLOR OF PAVEMENT MARKINGS AT THE SITE.

PART 3 - EXECUTION

- 3.01 EXAMINATION:
 - A. EXAMINE SUBSTRATES, AREAS, AND CONDITIONS, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR SURFACE SMOOTHNESS, SURFACE MOISTURE, AND OTHER CONDITIONS AFFECTING PERFORMANCE OF TRAFFIC-COATING WORK.
 - B. VERIFY THAT SUBSTRATES ARE VISIBLY DRY AND FREE OF MOISTURE.
 1. TEST FOR MOISTURE ACCORDING TO ASTM D4263.
 2. TEST FOR MOISTURE CONTENT BY METHOD RECOMMENDED IN WRITING BY TRAFFIC-COATING MANUFACTURER.
 - C. PREPARE WRITTEN REPORT, ENDORSED BY INSTALLER, LISTING CONDITIONS DETRIMENTAL TO PERFORMANCE OF TRAFFIC-COATING WORK.
 - D. PROCEED WITH INSTALLATION ONLY AFTER SUBSTRATE CONSTRUCTION AND PENETRATING WORK HAVE BEEN COMPLETED AND UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
 1. BEGIN COATING APPLICATION ONLY AFTER MINIMUM CONCRETE-CURING AND-DRYING PERIOD RECOMMENDED IN WRITING BY TRAFFIC-COATING MANUFACTURER HAS PASSED AND AFTER SUBSTRATES ARE DRY.
 2. APPLICATION OF COATING INDICATES ACCEPTANCE OF SURFACES AND CONDITIONS.
- 3.02 PREPARATION:
 - A. GENERAL: BEFORE APPLYING TRAFFIC COATINGS, CLEAN AND PREPARE SUBSTRATES ACCORDING TO ASTM C1127 AND MANUFACTURER'S WRITTEN INSTRUCTIONS TO PRODUCE CLEAN, DUST-FREE, DRY SUBSTRATE FOR TRAFFIC-COATING APPLICATION. REMOVE PROJECTIONS, FILL VOIDS, AND SEAL JOINTS IF ANY, AS RECOMMENDED IN WRITING BY TRAFFIC-COATING MANUFACTURER.
 - B. SCHEDULE PREPARATION WORK SO DUST AND OTHER CONTAMINANTS FROM PROCESS DO NOT FALL ON WET, NEWLY COATED SURFACES.
 - C. MASK ADJOINING SURFACES NOT RECEIVING TRAFFIC COATINGS TO PREVENT OVERSPRAY, SPILLAGE, LEAKING, AND MIGRATION OF COATINGS. PREVENT TRAFFIC-COATING MATERIALS FROM ENTERING DECK SUBSTRATE PENETRATIONS AND CLOGGING WEEP HOLES AND DRAINS.
 - D. CONCRETE SUBSTRATES: MECHANICALLY ABRASE SURFACE TO A UNIFORM PROFILE ACCEPTABLE TO MANUFACTURER, ACCORDING TO ASTM D4259. DO NOT ACID ETCH.
 1. REMOVE GREASE, OIL, PAINTS, AND OTHER PENETRATING CONTAMINANTS FROM CONCRETE.
 2. REMOVE CONCRETE FINS, RIDGES, AND OTHER PROJECTIONS.
 3. REMOVE LAITANCE, GLAZE, EFFLORESCENCE, CURING COMPOUNDS, CONCRETE HARDENERS, FORM-RELEASE AGENTS, AND OTHER INCOMPATIBLE MATERIALS THAT MIGHT AFFECT COATING ADHESION.
 4. REMOVE REMAINING LOOSE MATERIAL TO PROVIDE A SOUND SURFACE, AND CLEAN SURFACES ACCORDING TO ASTM D4258.
- 3.03 TERMINATIONS AND PENETRATIONS:
 - A. PREPARE VERTICAL AND HORIZONTAL SURFACES AT TERMINATIONS AND PENETRATIONS THROUGH TRAFFIC COATINGS AND AT EXPANSION JOINTS, DRAINS, AND SLEEVES ACCORDING TO ASTM C1127 AND MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - B. PROVIDE SEALANT CANTS AT PENETRATIONS AND AT REINFORCED AND NONREINFORCED, DECK-TO-WALL BUTT JOINTS.
 - C. TERMINATE EDGES OF DECK-TO-DECK EXPANSION JOINTS WITH PREPARATORY BASE-COAT STRIP.
 - D. INSTALL SHEET FLASHINGS AT DECK-TO-WALL EXPANSION AND DYNAMIC JOINTS, AND BOND TO DECK AND WALL SUBSTRATES ACCORDING TO MANUFACTURER'S WRITTEN RECOMMENDATIONS.
- 3.04 JOINT AND CRACK TREATMENT:
 - A. PREPARE, TREAT, ROUT, AND FILL JOINTS AND CRACKS IN SUBSTRATES ACCORDING TO ASTM C1127 AND MANUFACTURER'S WRITTEN RECOMMENDATIONS. BEFORE COATING SURFACES, REMOVE DUST AND DIRT FROM JOINTS AND CRACKS ACCORDING TO ASTM D4258.
 1. COMPLY WITH RECOMMENDATIONS IN ASTM C1193 FOR JOINT-SEALANT INSTALLATION.

TRAFFIC COATINGS CONT.:

- B. APPLY REINFORCING STRIP IN TRAFFIC-COATING SYSTEM WHERE RECOMMENDED IN WRITING BY TRAFFIC-COATING MANUFACTURER.
- 3.05 TRAFFIC COATING APPLICATION:
 - A. APPLY TRAFFIC COATING ACCORDING TO ASTM C1127 AND MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - B. APPLY NUMBER OF COATS OF SPECIFIED COMPOSITIONS FOR EACH TYPE OF TRAFFIC COATING AT LOCATIONS AS INDICATED ON DRAWINGS.
 - C. START TRAFFIC-COATING APPLICATION IN PRESENCE OF MANUFACTURER'S TECHNICAL REPRESENTATIVE.
 - D. VERIFY THAT WET FILM THICKNESS OF EACH COAT COMPLIES WITH REQUIREMENTS EVERY 100 SQUARE FEET (9 SQ. M).
 - E. UNIFORMLY BROADCAST AGGREGATE ON COATS SPECIFIED TO RECEIVE AGGREGATE. EMBED AGGREGATE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. AFTER COAT DRIES, SWEEP AWAY EXCESS AGGREGATE.
 - F. APPLY TRAFFIC COATINGS TO PREPARED WALL TERMINATIONS AND VERTICAL SURFACES TO HEIGHT INDICATED; OMIT AGGREGATE ON VERTICAL SURFACES.
 - G. CURE TRAFFIC COATINGS. PREVENT CONTAMINATION AND DAMAGE DURING APPLICATION AND CURING STAGES.
- 3.06 PAVEMENT MARKINGS:
 - A. PAVEMENT MARKINGS SHALL MATCH EXISTING LAYOUT PRIOR TO REPAIR. DO NOT APPLY PAVEMENT-MARKING PAINT FOR STRIPING AND OTHER MARKINGS UNTIL LAYOUT, COLORS, AND PLACEMENT HAVE BEEN VERIFIED WITH ENGINEER AND TRAFFIC COATING HAS CURED.
 - C. SWEEP AND CLEAN SURFACE TO ELIMINATE LOOSE MATERIAL AND DUST.
 - D. APPLY PAVEMENT-MARKING PAINT WITH MECHANICAL EQUIPMENT TO PRODUCE MARKINGS OF DIMENSIONS INDICATED WITH UNIFORM STRAIGHT EDGES. APPLY AT MANUFACTURER'S RECOMMENDED RATES FOR A 15-MIL- (0.4-MM-) MINIMUM, WET FILM THICKNESS.
 1. APPLY GRAPHIC SYMBOLS AND LETTERING WITH PAINT-RESISTANT, DIE-CUT STENCILS, FIRMLY SECURED TO SURFACE. MASK AN EXTENDED AREA BEYOND EDGES OF EACH STENCIL TO PREVENT PAINT APPLICATION BEYOND STENCIL. APPLY PAINT SO THAT IT CANNOT RUN BENEATH STENCIL.
 2. BROADCAST GLASS BEADS UNIFORMLY INTO WET PAVEMENT-MARKING PAINT AT A RATE OF 6 LB/GAL. (0.72 KG/L).
- 3.07 FIELD QUALITY CONTROL:
 - A. FINAL TRAFFIC-COATING INSPECTION: ARRANGE FOR TRAFFIC-COATING MANUFACTURER'S TECHNICAL PERSONNEL TO INSPECT MEMBRANE INSTALLATION ON COMPLETION.
 1. NOTIFY ENGINEER OR OWNER 48 HOURS IN ADVANCE OF DATE AND TIME OF INSPECTION.
 - B. ADDITIONAL TESTING AND INSPECTING, AT CONTRACTOR'S EXPENSE, WILL BE PERFORMED TO DETERMINE COMPLIANCE OF REPLACED OR ADDITIONAL WORK WITH SPECIFIED REQUIREMENTS.
 - C. PREPARE TEST AND INSPECTION REPORTS.
- 3.08 PROTECTING AND CLEANING:
 - A. PROTECT TRAFFIC COATINGS FROM DAMAGE AND WEAR DURING REMAINDER OF CONSTRUCTION PERIOD.
 - B. CLEAN SPILLAGE AND SOILING FROM ADJACENT CONSTRUCTION USING CLEANING AGENTS AND PROCEDURES RECOMMENDED BY MANUFACTURER OF AFFECTED CONSTRUCTION.
- 3.09 CLOSEOUT ACTIVITIES:
 - A. PROVIDE MANUFACTURER'S WARRANTY, MAINTENANCE MANUAL AND SITE VISIT REPORTS.

JOINT SEALANTS

- PART 1 - GENERAL
- 1.01 SUMMARY
 - A. SECTION INCLUDES:
 1. EXTERIOR AND INTERIOR JOINTS IN VERTICAL SURFACES AND NON-TRAFFIC HORIZONTAL SURFACES.
- 1.02 SUBMITTALS
 - A. PRODUCT DATA: MANUFACTURER'S PRODUCT LITERATURE FOR EACH SEALANT PROPOSED FOR USE.
- 1.03 QUALITY ASSURANCE
 - A. INSTALLER QUALIFICATIONS: INSTALLER SHALL HAVE SUCCESSFULLY COMPLETED WITHIN LAST THREE (3) YEARS AT LEAST FIVE (5) JOINT SEALANT APPLICATIONS SIMILAR IN TYPE AND SIZE TO THIS PROJECT.
 - B. SINGLE SOURCE RESPONSIBILITY OF JOINT SEALANT MATERIALS: OBTAIN SEALANT MATERIALS FROM SINGLE MANUFACTURER FOR EACH DIFFERENT PRODUCT REQUIRED.
- 1.04 DELIVERY, STORAGE, AND HANDLING
 - A. DELIVER MATERIAL TO PROJECT SITE IN ORIGINAL UNOPENED CONTAINERS OR BUNDLES WITH LABELS INFORMING ABOUT MANUFACTURER, PRODUCT NAME AND DESIGNATION, COLOR, EXPIRATION PERIOD FOR USE, POT LIFE, CURING TIME AND MIXING INSTRUCTIONS FOR MULTICOMPONENT MATERIALS.
 - B. STORE AND HANDLE MATERIALS TO PREVENT THEIR DETERIORATION OR DAMAGE DUE TO MOISTURE, TEMPERATURE CHANGES, CONTAMINANTS, OR OTHER CAUSES.
- 1.05 PROJECT/SITE CONDITIONS
 - A. ENVIRONMENTAL CONDITIONS: DO NOT PROCEED WITH INSTALLATION OF JOINT SEALANT UNDER FOLLOWING CONDITIONS.
 1. WHEN AMBIENT AND SUBSTRATE TEMPERATURE CONDITIONS ARE OUTSIDE LIMITS PERMITTED BY JOINT SEALANT MANUFACTURER.
 2. WHEN JOINT SUBSTRATES ARE WET DUE TO RAIN, FROST, CONDENSATION OR OTHER CAUSES.
 - B. JOINT WIDTH CONDITIONS: DO NOT PROCEED WITH INSTALLATION OF JOINT SEALANT WHEN JOINT WIDTHS EXCEED LIMITS ALLOWED BY JOINT SEALANT MANUFACTURER FOR APPLICATION INDICATED.

JOINT SEALANTS CONT.:

- PART 2 - PRODUCTS
- 2.01 MATERIALS
 - A. COMPATIBILITY: PROVIDE JOINT SEALANTS, JOINT FILLERS, BACKER RODS, AND OTHER RELATED MATERIALS COMPATIBLE WITH ONE ANOTHER AND JOINT SUBSTRATES UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY TESTING AND FIELD EXPERIENCE.
 - B. COLORS: PROVIDE COLOR TO MATCH ADJACENT DOOR FRAME, WINDOW FRAME, WALL SURFACES (CONTROL AND EXPANSION JOINTS), PLUMBING FIXTURES AND OTHER ADJACENT SURFACES. CONFIRM COLORS WITH ARCHITECT.
- 2.02 JOINT SEALANTS
 - A. MANUFACTURERS:
 1. SIKA CORPORATION
 2. TREMCO
 3. OR EQUAL.
 - B. EXTERIOR AND INTERIOR JOINTS:
 1. JOINTS:
 - a. EXPANSION, CONSTRUCTION, AND CONTROL JOINTS IN CONCRETE.
 2. MATERIAL:
 - a. SIKAFLEX 2C NS
 - b. MULTIPART EPOXIDIZED POLYURETHANE SEALANT, FS TT S 00227E, CLASS
- A. TYPE II, OR ASTM C920, TYPE M, GRADE NS (NON SAG), CLASS 25, USE NT, M, A, AND O.
- 2.03 JOINT SEALANT BACKING
 - A. GENERAL:
 1. PROVIDE SEALANT BACKINGS OF MATERIAL AND TYPE WHICH ARE NON STAINING; COMPATIBLE WITH JOINT SUBSTRATES, SEALANTS, PRIMERS, AND OTHER JOINT FILLERS APPROVED FOR APPLICATIONS INDICATED BY SEALANT MANUFACTURER BASED ON FIELD EXPERIENCE AND LABORATORY TESTING.
 - B. BACKER RODS:
 1. PREFORMED, COMPRESSIBLE, RESILIENT, NON-WAXING, NON EXTRUDING STRIPS OF PLASTIC FOAM OF MATERIAL INDICATED BELOW, AND OF SIZE, SHAPE AND DENSITY TO CONTROL SEALANT DEPTH AND OTHERWISE CONTRIBUTE TO PRODUCING OPTIMUM SEALANT PERFORMANCE.
 2. FLEXIBLE, OPEN CELL POLYURETHANE FOAM OR NON-GASSING, CLOSED CELL POLYETHYLENE FOAM.
 - C. BOND BREAKER TAPE:
 1. POLYETHYLENE TAPE OR OTHER PLASTIC TAPE AS RECOMMENDED BY SEALANT MANUFACTURER FOR PREVENTING BOND BETWEEN SEALANT AND JOINT FILLER OR OTHER MATERIALS AT BACK (3RD) SURFACE OF JOINT.
 2. PROVIDE SELF ADHESIVE TAPE WHERE APPLICABLE.
- 2.04 MISCELLANEOUS MATERIALS
 - A. PRIMER:
 1. PROVIDE TYPE RECOMMENDED BY JOINT SEALANT MANUFACTURER WHERE REQUIRED FOR ADHESION OF SEALANT TO JOINT SUBSTRATES INDICATED.
 - B. CLEANERS FOR NONPOROUS SURFACES:
 1. PROVIDE NONSTAINING, CHEMICAL CLEANER OF TYPE ACCEPTABLE TO MANUFACTURER OF SEALANT AND SEALANT BACKING MATERIALS WHICH ARE NOT HARMFUL TO SUBSTRATES AND ADJACENT NONPOROUS MATERIALS.
 - C. MASKING TAPE: NONSTAINING, NONABSORBENT MATERIAL COMPATIBLE WITH JOINT SEALANTS AND SURFACES ADJACENT TO JOINTS.

PART 3 - EXECUTION

- 3.01 PREPARATION
 - A. SURFACE CLEANING OF JOINTS: CLEAN OUT JOINTS IMMEDIATELY BEFORE INSTALLING JOINT SEALANTS TO COMPLY WITH RECOMMENDATIONS OF JOINT SEALANT MANUFACTURERS AND FOLLOWING.
 1. REMOVE FOREIGN MATERIAL FROM JOINT SUBSTRATES WHICH COULD INTERFERE WITH ADHESION OF JOINT SEALANT, INCLUDING DUST, PAINTS (EXCEPT FOR PERMANENT, PROTECTIVE COATINGS TESTED AND APPROVED FOR SEALANT ADHESION AND COMPATIBILITY BY SEALANT MANUFACTURER), OIL, GREASE, WATERPROOFING, WATER REPELLENTS, WATER, SURFACE DIRT, AND FROST.
 - B. JOINT PRIMING:
 1. PRIME JOINT SUBSTRATES WHERE RECOMMENDED BY JOINT SEALANT MANUFACTURER.
 2. APPLY PRIMER TO COMPLY WITH JOINT SEALANT MANUFACTURER'S RECOMMENDATIONS.
 3. CONFINE PRIMERS TO AREAS OF JOINT SEALANT BOND, DO NOT ALLOW SPILLAGE OR MIGRATION ONTO ADJOINING SURFACES.
 - C. PROTECTION OF ADJOINING SURFACES:
 1. USE MASKING TAPE WHERE REQUIRED TO PREVENT CONTACT OF SEALANT WITH ADJOINING SURFACES THAT OTHERWISE WOULD BE PERMANENTLY STAINED OR DAMAGED BY SUCH CONTRACT OR BY CLEANING METHODS REQUIRED TO REMOVE SEALANT SMEARS.
 2. REMOVE TAPE IMMEDIATELY AFTER TOOLING WITHOUT DISTURBING JOINT SEAL.



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JOINT SEALANTS CONT.:

3.02 INSTALLATION OF JOINT SEALANTS

A. COMPLY WITH JOINT SEALANT MANUFACTURERS' PRINTED INSTALLATION INSTRUCTIONS APPLICABLE TO PRODUCTS AND APPLICATIONS INDICATED, EXCEPT WHERE MORE STRINGENT REQUIREMENTS APPLY AND:

1. ELASTOMERIC SEALANT: ASTM C1193.

B. INSTALLATION OF SEALANT BACKINGS:

1. INSTALL JOINT FILLERS OF TYPE INDICATED TO PROVIDE SUPPORT OF SEALANTS DURING APPLICATION AND AT POSITION REQUIRED TO PRODUCE CROSS SECTIONAL SHAPES AND DEPTHS OF INSTALLED SEALANTS RELATIVE TO JOINT WIDTHS WHICH ALLOW OPTIMUM SEALANT MOVEMENT CAPABILITY.

- a. DO NOT LEAVE GAPS BETWEEN ENDS OF JOINT FILLERS.
- b. DO NOT STRETCH, TWIST, PUNCTURE, OR TEAR JOINT FILLERS.
- c. REMOVE ABSORBENT JOINT FILLERS WHICH HAVE BECOME WET PRIOR TO SEALANT APPLICATION AND REPLACE WITH DRY MATERIAL.

2. INSTALL BOND BREAKER TAPE BETWEEN SEALANTS AND JOINT FILLERS, COMPRESSION SEALS, OR BACK OF JOINTS WHERE REQUIRED TO PREVENT THIRD SIDE ADHESION OF SEALANT TO BACK OF JOINT.

3. INSTALL COMPRESSIBLE SEALS SERVING AS SEALANT BACKINGS TO COMPLY WITH REQUIREMENTS INDICATED ABOVE FOR JOINT FILLERS.

C. INSTALLATION OF SEALANTS:

1. SEALANTS SHALL DIRECTLY CONTACT AND FULLY WET JOINT SUBSTRATES, COMPLETELY FILL RECESSES PROVIDED FOR EACH JOINT CONFIGURATION AND PROVIDE UNIFORM, CROSS SECTIONAL SHAPES, AND DEPTHS RELATIVE TO JOINT WIDTHS WHICH ALLOW SEALANT MOVEMENT CAPABILITY.

D. TOOLING OF NON-SAG SEALANTS:

- 1. IMMEDIATELY AFTER SEALANT APPLICATION AND PRIOR TO TIME SKINNING OR CURING BEGINS, TOOL SEALANTS TO FORM SMOOTH, UNIFORM BEADS OF CONFIGURATION INDICATED, TO ELIMINATE AIR POCKETS AND TO ENSURE CONTACT AND ADHESION OF SEALANT WITH SIDES OF JOINT.
- 2. REMOVE EXCESS SEALANTS FROM SURFACES ADJACENT TO JOINT.
- 3. DO NOT USE TOOLING AGENTS WHICH DISCOLOR SEALANTS OR ADJACENT SURFACES OR ARE NOT APPROVED BY SEALANT MANUFACTURER.
- 4. CONCAVE JOINT CONFIGURATION SHALL BE IN ACCORDANCE WITH ASTM C1193, FIGURE A, UNLESS OTHERWISE INDICATED.

E. INSTALLATION OF PREFORMED FOAM SEALANTS:

- 1. INSTALL EACH LENGTH OF SEALANT IMMEDIATELY AFTER REMOVING PROTECTIVE WRAPPING, TAKING CARE NOT TO PULL OR STRETCH MATERIAL, AND COMPLYING WITH SEALANT MANUFACTURER'S DIRECTIONS FOR INSTALLATION METHODS, MATERIALS, AND TOOLS PRODUCING SEAL CONTINUITY AT ENDS, TURNS, AND INTERSECTIONS OF JOINTS.
- 2. FOR APPLICATIONS AT LOW AMBIENT TEMPERATURES WHERE EXPANSION OF SEALANT REQUIRES ACCELERATION TO PRODUCE SEAL, APPLY HEAT TO SEALANT IN CONFORMANCE WITH SEALANT MANUFACTURER'S RECOMMENDATIONS.

3.03 PROTECTION

A. PROTECT JOINT SEALANTS DURING AND AFTER CURING PERIOD FROM CONTACT WITH CONTAMINATING SUBSTANCES OR FROM DAMAGE RESULTING FROM CONSTRUCTION OPERATIONS OR OTHER CAUSES SO THEY ARE WITHOUT DETERIORATION OR DAMAGE AT TIME OF SUBSTANTIAL COMPLETION. IF, DESPITE SUCH PROTECTION, DAMAGE OR DETERIORATION OCCURS, CUT OUT AND REMOVE DAMAGED OR DETERIORATED JOINT SEALANTS IMMEDIATELY AND RESEAL JOINTS WITH NEW MATERIALS TO PRODUCE JOINT SEALANT INSTALLATIONS WITH REPAIRED AREAS INDISTINGUISHABLE FROM ORIGINAL WORK.

3.04 CLEANING

A. CLEAN OFF EXCESS SEALANTS OR SEALANT SMEARS ADJACENT TO JOINTS AS WORK PROGRESSES BY METHODS AND WITH CLEANING MATERIALS APPROVED BY MANUFACTURERS OF JOINT SEALANTS AND OF PRODUCTS IN WHICH JOINTS OCCUR.



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