

CDCR
24-026

San Quentin Rehabilitation Center
SQRC Upper Yard Phase 2

SECTION 32 18 13
SYNTHETIC GRASS SURFACING

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Synthetic grass surfacing.
- B. Related Requirements:
 - 1. Section 03 30 00 – Cast-in-Place Concrete
 - 2. Section 05 05 53 – Security Metal Fastenings
 - 3. Section 31 20 00 – Earthwork

1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site, to include CDCR Representative.

1.3 DESCRIPTION OF WORK

- A. Quality synthetic grass product manufactured in the USA according to specifications in Part 2 of this document. Product must meet or exceed all guidelines as established herein, or for characteristics not specifically stated, must meet or exceed all guidelines published by the Synthetic Turf Council.
- B. The applicator must provide all labor, materials, equipment and tools necessary for the complete installation of specified synthetic grass systems.

1.4 QUALITY ASSURANCE

- A. Applicator: Owner installed, trained and approved by manufacturer in performing the work of this Section, and that is eligible to receive manufacturer's special warranty.

1.5 SUBMITTALS

- A. Submit in accordance with Section 01 33 00 – Submittal Procedures.
- B. Product Data:
 - 1. Synthetic grass surfacing.
- C. Shop Drawings: For synthetic grass surfacing.
 - 1. Include sections and details.
- D. One (1) 12 inch x 12 inch loose sample of each proposed synthetic grass product and one (1) 12 inch x 12 inch boxed sample including infill (if requested) representative of finished synthetic grass system.

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- E. One (1) Seam Sample: 24 inches square with seam centered in sample.
- F. One (1) copy of the product warranty for proposed synthetic grass product.
- G. One (1) copy of their maintenance instructions. These instructions will include all necessary instructions for the proper care and maintenance of the newly installed synthetic turf system.
- H. One (1) copy of edge and seam details of proposed installation and terminations of synthetic grass system.
- I. One (1) copy of a signed letter from synthetic grass vendor certifying the proposed synthetic grass product is manufactured in the USA.
- J. Drainage / Water permeability test of sub-base.

1.6 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For synthetic grass surfacing include all necessary instructions for the proper care and maintenance of the newly installed synthetic turf system to include in maintenance manuals.

1.7 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Turf: Minimum of 300 sq. ft. for each type indicated.
 - 2. Seaming Adhesive: One gallon of adhesive.
 - 3. One new set of maintenance tools of type recommended by synthetic grass surfacing manufacturer.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Store materials in location and manner to allow installation of synthetic grass surfacing without excess disturbance of gravel base. Verify location with CDCR.

1.9 WARRANTY

- A. Warranty: Manufacturer agrees to repair or replace synthetic grass surfacing that fails in materials within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Deterioration and excessive wear.
 - b. Deterioration from UV light.
 - 2. Warranty Period: 15 years from date of project completion.
 - 3. Be from a single source (certified by manufacturer) covering all materials.
 - 4. Assure the availability of exact or substantially the same replacement materials for the synthetic grass system for the full warranty period.
 - 5. Include general wear and damage caused by UV degradation. The warranty may specifically exclude vandalism and Acts of God beyond the control of the manufacturer or installer.

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PART 2 PRODUCTS

2.1 SYNTHETIC GRASS SURFACING

A. FOREVERLAWN – K9 GRASS ENDURA

1. Synthetic Grass Surfacing for Dogs: Complete surfacing system, consisting of synthetic yarns bound to water-permeable backing as indicated, suitable for pet areas and lawns.
 - a. Basis of Design Product: Forever Lawn K9 Grass Endura. For manufacturers not listed, comply with substitution requirements in Section 01 25 00 – Substitution Procedures.
2. Synthetic Grass Fiber and Construction Characteristics:
 - a. Yarn, Turf Zone: knitted
 - 1) Color: [Field / Apple Green]
 - 2) Denier ASTM D1577: 5000 / 8
 - 3) Antimicrobial Protection: Yes
 - 4) Antistatic Protection: None
 - 5) S/R Reflective: 0.128
 - b. Yarn, Thatch Zone: Denier, ASTM D1577
 - 1) Color: Green/Tan
 - 2) Denier, 4730 / 8
 - 3) Finished Pile height: ASTM D5823; 7/8 inch.
 - 4) Finish Pile Weight: ASTM D5848; 75 oz/sq. yd
 - c. Tuft Machine Gauge: Knitted product
 - 1) Total Product Weight: 80 oz/sq. yd
 - 2) Backing: Flow-through knitted backing
 - 3) Seaming: Turf adhesive, Mapei Ultrabond Turf PU 1K
 - 4) Finished Roll Width: 15 feet
 - 5) Finish Roll Length: Up to 150 feet
3. The synthetic grass shall be delivered in 15-foot-wide rolls. The rolls must be laid out and installed as specified in the site layout and equipment placement drawings.
 - a. No infill material is to be utilized with synthetic turf used in areas with dogs.

B. FOREVERLAWN SPORTSGRASS EDGE LITE

1. Basis of Design Product: SportsGrass Edge Lite by ForeverLawn. For manufacturers not listed comply with substitution requirements in Section 01 25 00 – Substitution Procedures.
2. Synthetic grass fiber and construction characteristics:
 - a. Yarn type: Primary: Polyethylene slit film, Secondary: Heat set textured nylon monofilament.
 - b. Yarn count: Primary: 5,000/1; Secondary: 5,040/12
 - c. Yarn color: Primary: Field green; Secondary: Turf green/tan
 - d. Product construction: Single yarn
 - e. Pile height: 1-3/4 inch (may have a variance of 1/8 inch)
 - f. Tufting gauge: 3/8 inch
 - g. Pile (face) weight: 48 oz/SY (may have a variance of 2%)
 - h. Total product weight: 103 oz/SY (may have a variance of 4%)
 - i. Backing: Three-layer premium backing made with BioCel™ polyurethane and 100% recycled geotextile nonwoven fabric on a dual layer primary
 - j. Finished roll width: 15 feet

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- Finished Roll Length: Up to 240 ft. (73 m.)
- k. Perforation: 3/16-inch holes spaced 4 inch on center (approximate)
 - l. Infill: 1.6 lbs of rubber/SF maximum
3. Resilient infill. A resilient infill system, consisting of rubber granules engineered to provide the look, feel, footing, and shock absorption of a natural grass field in ideal conditions. Infill shall meet the following specifications: (other infill systems available upon inquiry).
- a. Infill type: 100% recycled SBR crumb rubber
 - b. Size: 10/20 mesh
 - c. Color: Substantially black
 - d. Contaminants: Granules shall contain minimal dust or contaminants
 - e. Uniformity: Granules shall be clean, uniformly sized, and consistent in shape and particle size.

2.2 MATERIALS

- A. Specialty Turf Seam Adhesive: One-part polyurethane glue by Mapei Ultrabond Turf PU IK.
- B. Seaming fiber tape: Single layer fiber tape, recommended by the synthetic grass surfacing manufacturer.
- C. Seam Tape: Reinforced Micromechanical tape.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine base and other conditions, with Installer present, for compliance with requirements for installation tolerances, permeability, and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected. Contractor shall provide a qualified installation foreman to coordinate and review the component parts of the synthetic grass system. Foreman shall be introduced to CDCR or CDCR's representative prior to start of construction.

3.2 INSTALLATION OF SYNTHETIC FOREVER LAWN – K9 GRASS ENDURA SURFACING

- C. Finished Roll Width: 15 ft. (4.6 m)
 - 1. The synthetic grass rolls must be laid out and installed as specified in the site layout placement drawings.
- D. Infill Application: It is imperative that no infill is utilized with synthetic turf to be used in areas with dogs.
- E. Excavation: Existing ground cover shall be excavated to the depth established on the excavation plan. The subgrade shall be compacted to a minimum of 90% compaction rate.

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- F. Perimeter Ledge/Nailer: The synthetic turf concrete perimeter fastening structure shall be per the detail drawings and installed before the drainage aggregate. Nailer board shall be 1/2 inch to 3/4 inch below grade when adjacent to hard walking surface (i.e. concrete or tile). Perimeter nailer board shall be flush to grade (or as specified in site detail drawings) when adjacent to soft surface (i.e. natural grass, mulch).
- G. Base and Drainage Construction:
1. The Contractor shall strictly adhere to the installation procedures outlined under this section and per the detailed drawings.
 - a. Base and Drainage aggregate: The installation of the free draining base course aggregate of 3 inches of a 3/4 inch to 1/2 inch washed and angular stone capped with 1 inch of 3/8 inch washed and angular stone is the preferred installation method. Each layer of stone must be compacted with a vibratory plate compactor multiple times. If a two-layer stone base is not achievable, a full 4 inches of a 3/8 inch clean angular stone could be used as a secondary option. If the subgrade does not permit liquids to freely percolate, auxiliary drainage is required. Base material must be installed to a depth of 4 inches to a minimum of 90% compaction rate. The drainage network and its existing elevations shall not be disrupted through ground pressures from trucks, dozers, or by other means.
 - b. The stone must be left firm and compacted while allowing the porosity and drainage capabilities of the aggregate profile.
 - c. After a final inspection of the stone base by the Contractor and CDCR's representative, the synthetic turf installation shall begin.
- H. Synthetic Turf Edge Seaming:
1. The synthetic grass rolls must be laid out and installed as specified in the site layout and equipment placement drawings.

Synthetic grass rolls must begin with the longest perpendicular cross-field distance and should follow the following procedures. Grass rolls shall be installed with pile leaning the same direction.

 - a. Synthetic grass should be rolled out for a period recommended by manufacturer prior to starting seaming procedures and allowed to relax/expand. All visible wrinkles shall be stretched out before seaming.
 - b. Synthetic grass rolls shall be joined at seams via single layer fiber tape reinforced with specialty turf seam adhesive.
 - c. Seams shall be flat, tight and permanent with no separation or fraying.
 - d. Seams shall be rolled with weighted roller to ensure adhesion. Synthetic turf yarn fabric that is trapped or glued between seams must be freed from the seams by hand or other approved method to an upright position prior to the commencement of brushing and top-dressing synthetic grass rolls wherever possible.
- I. Synthetic Turf Perimeter Attachment:
- a. After final layout and seaming of the synthetic grass product, synthetic turf material must be secured to the perimeter ledge/nailer utilizing stainless steel Allen head or Torx drive screws with center pin reject, button head, and stainless-steel washers at 3 inches on center.
- J. Soil or surfacing material outside of the defined synthetic turf area shall be backfilled against turf wrapped perimeter edge and have zero transition edge to synthetic turf unless otherwise specified.

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3.3 INSTALLATION OF FOREVERLAWN – SPORTSGRASS EDGE LITE

- A. Finished Roll Width: 15 ft. (4.6 m)
 - 1. The synthetic grass rolls must be laid out and installed as specified in the site layout placement drawings.
- B. Excavation: Existing ground cover shall be excavated to the depth established on the excavation plan. The subgrade shall be compacted to a minimum of 90% compaction rate.
- C. Perimeter Ledge/Nailer: The synthetic turf perimeter fastening structure shall be per the detail drawings and installed before the drainage aggregate.
 - 1. Install a HDPE composite board attached to the perimeter concrete structure per the detail drawings. Perimeter board shall be flush to grade or as specified in site detail drawings. Attach nailer board to perimeter structure using stainless steel tamperproof expansion anchors, Allen head or Torx drive with center pin reject.
 - 2. Concrete and solid surfaces must be 1/2 inch to 3/4 inch higher than the top of the nailer board.
- D. Base and Drainage Construction:
 - 1. The Contractor shall strictly adhere to the installation procedures outlined under this section and per the detailed drawings.
 - a. Base and Drainage aggregate: The installation of the free draining base course aggregate of 3 inches of a 3/4 inch to 1/2 inch washed and angular stone capped with 1 inch of 3/8 inch washed and angular stone is the preferred installation method. Each layer of stone must be compacted with a vibratory plate compactor multiple times. If a two-layer stone base is not achievable, a full 4 inches of a 3/8 inch clean angular stone could be used as a secondary option. If the subgrade does not permit liquids to freely percolate, auxiliary drainage is required. Base material must be installed to a depth of 4 inches to a minimum of 90% compaction rate. The drainage network and its existing elevations shall not be disrupted through ground pressures from trucks, dozers, or by other means.
 - b. The stone must be left firm and compacted while allowing the porosity and drainage capabilities of the aggregate profile.
 - c. After a final inspection of the stone base by the Contractor and CDCR's representative, the synthetic turf installation shall begin.
- E. Synthetic Turf Edge Seaming:
 - 1. The synthetic grass rolls must be laid out and installed as specified in the site layout and equipment placement drawings.
 - a. Synthetic grass rolls must begin with the longest perpendicular cross-field distance and should follow the following procedures:
 - b. Synthetic grass should be rolled out for a period recommended by manufacturer prior to starting seaming procedures and allowed to relax/expand. All visible wrinkles shall be stretched out before seaming.
 - c. Synthetic grass rolls shall be joined at seams via micromechanical bond (hook and loop) seaming and reinforced with specialty turf seam adhesive.
 - d. Seams shall be flat, tight and permanent with no separation or fraying.
 - e. Seams shall be rolled with weighted roller to ensure adhesion. Synthetic turf yarn fabric that is trapped or glued between seams must be freed from the seams by hand

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or other approved method to an upright position prior to the commencement of brushing and top-dressing synthetic grass rolls wherever possible.

F. Synthetic turf perimeter attachment:

1. After final layout and seaming of the synthetic grass product, the synthetic turf shall be adhered with specialty turf seam adhesive to the top of the nailer, lapped over side to top of perimeter concrete structure and secured to the side of the nailer with stainless steel Allen head or Torx drive screws with center pin reject, button head, and stainless steel washers at 3 inches on center.
2. The edges must be precision trimmed to meet the surface exterior to the field.

G. Soils adjacent to the outside of the defined synthetic turf area shall be backfilled and compacted against the turf wrapped perimeter edge and have zero transition edge to the synthetic turf, unless otherwise specified.

H. Infill application:

After all seaming is completed and synthetic turf installed; the infill materials must be applied evenly using an all-in-one metered device such as the SMG Sandmatic machine to ensure precise application of the infill and grooming of the grass to exact tolerances.

3.4 CLOSEOUT

- A. The Contractor shall verify that a qualified representative has inspected the installation and that the finished surface conforms to the manufacturer's requirements.
- B. Extra materials: CDCR shall be given the option to retain and store excess materials such as excess turf and concrete nails/washers left over from the project.
- C. The Contractor must provide the CDCR with the pull behind maintenance brush for New Turf Grooming Equipment.
- D. Prior to Final Acceptance, the synthetic turf vendor must submit to the CDCR three (3) copies of their maintenance instructions. These instructions will include all necessary instructions for the proper care and maintenance of the newly installed synthetic grass system.
- E. Synthetic grass contractor must train CDCR's designated field personnel in proper grooming and care procedures. This includes training field personnel how to properly use grooming equipment as well as make minor repairs.

3.5 CLEAN UP

- A. Contractor shall provide the labor, supplies, and equipment as necessary for final cleaning of surfaces and installed items.
- B. During the contract and at intervals as directed by the CDCR or CDCR's representative and as synthetic grass system installation is completed, clear the site of all extraneous materials, trash, or debris, and leave the site in a clean, safe well-draining, neat condition.
- C. Surfaces, recesses, enclosures, etc. shall be cleaned as necessary to leave the work area in a clean, immaculate condition ready for immediate occupancy and use by the CDCR.

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- D. All usable remnants of new material shall be neatly rolled up and turned over to the CDCR at a place and area designated by CDCR.

END OF SECTION

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SECTION 01 33 00
SUBMITTAL PROCEDURES

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Submittal Log.
 - 2. Submittal Procedures.
 - 3. Submittal Contents.
 - 4. Submittal Quantities and Format.
 - 5. Manufacturer's Instructions.
- B. Related Sections and Documents:
 - 1. Section 01 41 00 – Regulatory Requirements.

1.2 SUBMITTAL LOG

- A. Within 10 days after Notice to Proceed, Contractor must furnish to CDCR Representative, an electronic version and four printed copies of the Submittal Log. The CDCR Representative will review and approve the Submittal Log or return it with comments for correction or revision.
- B. Submittal Log must include all submittals required by the Contract Documents and include the following information for each of the Contractor's submittal packages:
 - 1. Specification Section number and title.
 - 2. Submittal Title / description of the Work covered.
 - 3. Name of responsible entity (Contractor, CDCR, Subcontractor, etc.).
 - 4. Submittal category (action or informational).
 - 5. Provide written signatures of subcontractors indicating their review and approval of Submittal Log dates and information for their submittals.
 - 6. Identify deferred submittals which must be reviewed by State departments other than CDCR and/or local regulatory agencies.
 - 7. Identify critical and near critical submittals
- C. The approved Submittal Log must be updated on a weekly basis by the Contractor to reflect the current status of the submittals.
 - 1. Contractor must provide a minimum of four copies of the updated Submittal Log to the CDCR Representative at Weekly Contractor meetings.
 - 2. Contractor and CDCR Representative must jointly revise submittal log information to reflect actual submittals and correct dates which are not accurate.

1.3 SUBMITTAL PROCEDURES

- A. Provide submittals as required in the individual Section.

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- B. Electronic submittals may be utilized by Contractor subject to the approval of the CDCR Representative. Contractor must assume responsibility for:
 - 1. Confirming Electronic format compatibility with all required reviewers.
 - 2. Providing all software; security; access and instructions/training/support required for use of any proprietary applications.
 - 3. Compliance with all other applicable requirements of this Section.
- C. Submittals not required will not be reviewed.
- D. Submittals must be in the English language and numerical data must be in the system of units used as shown and specified.
- E. Neither the review nor lack of review of any submittal will waive any of the requirements of the Contract or relieve the Contractor of any obligations hereunder.
- F. Make submittals promptly in accordance with the approved submittal log, and in such sequence as to cause no delay in the Work or in the work of any other contractor.
- G. Number submittals sequentially, using alphabetic suffixes on resubmittals.
- H. Each submittal must contain data representing only one specification Section.
- I. CDCR Representative will review and return submittals within 20 days after receipt thereof, or within 20 days after receipt of all information necessary for such review, whichever is later.
 - 1. Review status will be marked “No Exception Taken”, “Make Corrections Noted”, “Revise and Resubmit”, “Rejected”, or “Not Reviewed”.
 - 2. Revise and resubmit within 15 days of return submittals marked “Revise and Resubmit” or “Rejected”.
- J. Except as otherwise specified for substitutions in the General Conditions of the Contract for Construction, and for certain other items in this Section 01 33 00, make submissions no later than the number of days outlined below after the Start Date of the Work.
 - 1. Items needed in initial stages of Work or requiring long lead-time for ordering: 20 calendar days.
 - 2. Deferred Approval submittals, for review and approval by agencies such as OSFM: 30 calendar days.
 - 3. All other items: 60 calendar days.
- K. Regulatory Agency Submittals: Contractor must allow additional time for required regulatory agency submittal reviews and processing as follows:
 - 1. CDCR Fire and Life Safety (FLS) Peer Reviewer of the Office of State Fire Marshal (OSFM) deferred submittal(s):
 - a. Prepare OSFM submittal(s) per published requirements:
<https://osfm.fire.ca.gov/divisions/fire-and-life-safety-division/plan-review-submittal-requirements-information/>.
 - 1) Fire Suppression systems to comply with NFPA 13 as adopted by the OSFM, including but not limited to, water flow test within 6 months of submittal submission and structural engineer letter of compliance.
 - 2) Fire Alarm systems to comply with NFPA 72 as adopted by the OSFM.
 - 3) All other listed deferred submittals as defined in their respective specifications.

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- b. Provide submittal to CDCR FLS Peer Reviewer for CDCR internal “triage” review. Allow 3 weeks for triage review process to include:
 - 1) Allow 1 week for review of OSFM submittal(s) by CDCR FLS Peer Reviewer.
 - 2) Allow 1 week for Contractor incorporation of CDCR FLS Peer Reviewer comments.
 - 3) Allow 1 week for CDCR FLS Peer Reviewer back-check of Contractor revised submittal.
 - 4) Submittals that do not pass triage review will be sent back to Contractor for additional incorporation of CDCR FLS Peer Reviewer comments. Any delays to Contract Milestones caused by such resubmittals are the fault of the Contractor.
 - 5) Once submittal meets requirements for OSFM review, CDCR FLS Peer Reviewer will authorize for submission to the OSFM and be deemed a quality submission.
- 2. Office of the State Fire Marshal review time for deferred submittals as follows:
 - a. Allow 14 weeks for OSFM initial review.
 - b. Allow 2 weeks for Contractor incorporation of SFM comments.
 - c. Allow 1 week for CDCR FLS Peer Review backcheck.
 - d. Allow 4 weeks for OSFM back-check and approval.
 - e. Submittals that do not pass review will be sent back to Contractor for additional incorporation of OSFM comments. Any delays to Contract Milestones caused by such resubmittals are the fault of the Contractor.
- L. Distribute copies of the reviewed submittals to concerned parties. Instruct parties to promptly report inability to comply with provisions. Notify CDCR Representative of every such report.
- M. Do not begin Work covered by a submittal designated “Revise and Resubmit” or “Rejected”. Contractor may begin Work covered by submittals marked “No Exceptions Taken” or “Make Corrections Noted” in accordance with review notes and comments or as otherwise approved by a regulatory agency.

1.4 SUBMITTAL CONTENTS

- A. Submittals Must Contain:
 - 1. Date of submission and dates of any previous submissions.
 - 2. Project title and number.
 - 3. Contract Identification.
 - 4. Names of Contractor, supplier, and manufacturer.
 - 5. Identification of the product, with the Specification Section number and the applicable detail number(s) on the approved Project Drawings.
 - 6. Dimensions and values in units to match those indicated.
 - 7. Field dimensions, clearly identified as such.
 - 8. Relation to adjacent or critical features of the work or materials.
 - 9. Applicable standards, such as ASTM or Federal Specification numbers.
 - 10. Identification of revisions on resubmittals.
 - 11. An 8- x 3-inch space for review stamps in the lower right-hand corner of each page.
 - 12. Contractor’s stamp, initialed or signed, certifying to review of submittal, verification of products, field measurements and field construction criteria, and coordination of the information within the submittal with requirements of the Work and of the Contract.

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1.5 SUBMITTAL QUANTITIES AND FORMAT

- A. Quantities:
 - 1. General: Submit six copies. Two copies will be returned to Contractor.
 - 2. Samples:
 - a. Submit the number of samples indicated in the specific technical Section.
 - b. Where no number is specified, submit four samples.
 - c. Two samples will be returned to Contractor.
 - 3. The number of submittals may be adjusted for specific submittals as approved by the CDCR Representative.
- B. Where Electronic submittal format is utilized, a PDF format file copy and two paper copies of the final approved submittal must be provided.
- C. Submittals must be organized in identical order in all copies.

1.6 MANUFACTURER'S INSTRUCTIONS

- A. Where any item of Work is required by the Contract to be delivered, stored, assembled, installed, started-up, adjusted, or finished in accordance with the Manufacturer's instructions, submit manufacturer's printed instructions.
- B. Identify conflicts between manufacturer's instructions and the Contract. Report conflicts to CDCR Representative.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

END OF SECTION

SUBMITTAL PROCEDURES