

GENERAL CONDITIONS

SECTION 014200 - REFERENCES

- PART 1 - GENERAL
1.1 INDUSTRY STANDARDS
A. APPLICABILITY OF STANDARDS: UNLESS THE CONTRACT DOCUMENTS INCLUDE MORE STRINGENT REQUIREMENTS, APPLICABLE CONSTRUCTION INDUSTRY STANDARDS HAVE THE SAME FORCE AND EFFECT AS IF BOUND OR COPIED DIRECTLY INTO THE CONTRACT DOCUMENTS TO THE EXTENT REFERENCED. SUCH STANDARDS ARE MADE A PART OF THE CONTRACT DOCUMENTS BY REFERENCE.
B. PUBLICATION DATES: COMPLY WITH STANDARDS IN EFFECT AS OF DATE OF THE CONTRACT DOCUMENTS UNLESS OTHERWISE INDICATED.
C. COPIES OF STANDARDS: EACH ENTITY ENGAGED IN CONSTRUCTION ON PROJECT SHOULD BE FAMILIAR WITH INDUSTRY STANDARDS APPLICABLE TO ITS CONSTRUCTION ACTIVITY. COPIES OF APPLICABLE STANDARDS ARE NOT BOUND WITH THE CONTRACT DOCUMENTS.
1. WHERE COPIES OF STANDARDS ARE NEEDED TO PERFORM A REQUIRED CONSTRUCTION ACTIVITY, OBTAIN COPIES DIRECTLY FROM PUBLICATION SOURCE.
1.2 ABBREVIATIONS AND ACRONYMS
A. INDUSTRY ORGANIZATIONS: WHERE ABBREVIATIONS AND ACRONYMS ARE USED IN SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THEY SHALL MEAN THE RECOGNIZED NAME OF THE ENTITIES IN THE FOLLOWING LIST.
ACI AMERICAN CONCRETE INSTITUTE
AHA AMERICAN HARDBOARD ASSOCIATION
AIA AMERICAN INSTITUTE OF ARCHITECTS
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE
APA - THE ENGINEERED WOOD ASSOCIATION
ASHRAE AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
ASTM ASTM INTERNATIONAL (AMERICAN SOCIETY FOR TESTING AND MATERIALS INTERNATIONAL)
AWI AMERICAN WOOD INSTITUTE
AWPA AMERICAN WOOD PROTECTION ASSOCIATION (FORMERLY: AMERICAN WOOD PRESERVERS' ASSOCIATION)
CRI CARPET AND RUG INSTITUTE (THE)
CRRC COOL ROOF RATING COUNCIL
CSA CANADIAN STANDARDS ASSOCIATION
CSA INTERNATIONAL (FORMERLY: INTERNATIONAL APPROVAL SERVICES)
CSI CONSTRUCTION SPECIFICATIONS INSTITUTE (THE)
SEMCOINTERTEK ETL SEMCO (FORMERLY: ITS - INTERTEK TESTING SERVICE NA)
FM GLOBAL (FORMERLY: FMG - FM GLOBAL)
FSC FOREST STEWARDSHIP COUNCIL
HPVA HARDWOOD PLYWOOD & VENEER ASSOCIATION
ISO INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
ITS INTERTEK TESTING SERVICE NA (NOW ETL SEMCO)
MFMA MAPLE FLOORING MANUFACTURERS ASSOCIATION, INC.
MPI MASTER PAINTERS INSTITUTE
NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)
NOFMA NATIONAL OAK FLOORING MANUFACTURERS ASSOCIATION (FORMERLY: NATIONAL OAK FLOORING MANUFACTURERS ASSOCIATION)
OPL INTERTAK
SDI STEEL DOOR INSTITUTE
SMAACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION
UL UNDERWRITERS LABORATORIES INC.
USGBC U.S. GREEN BUILDING COUNCIL
WCLUB WEST COAST LUMBER INSPECTION BUREAU
WI WOODWORK INSTITUTE (FORMERLY: WIC - WOODWORK INSTITUTE OF CALIFORNIA)
B. CODE AGENCIES: WHERE ABBREVIATIONS AND ACRONYMS ARE USED IN SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THEY SHALL MEAN THE RECOGNIZED NAME OF THE ENTITIES IN THE FOLLOWING LIST.
DIN DEUTSCHES INSTITUT FÜR NORMUNG E.V.
ICC INTERNATIONAL CODE COUNCIL
ICC-ES ICC EVALUATION SERVICE, INC.
C. FEDERAL GOVERNMENT AGENCIES: WHERE ABBREVIATIONS AND ACRONYMS ARE USED IN SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THEY SHALL MEAN THE RECOGNIZED NAME OF THE ENTITIES IN THE FOLLOWING LIST.
EPA ENVIRONMENTAL PROTECTION AGENCY
D. STANDARDS AND REGULATIONS: WHERE ABBREVIATIONS AND ACRONYMS ARE USED IN SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THEY SHALL MEAN THE RECOGNIZED NAME OF THE STANDARDS AND REGULATIONS IN THE FOLLOWING LIST.
ADAAG AMERICANS WITH DISABILITIES ACT (ADA)
ARCHITECTURAL BARRIERS ACT (ABA)
ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES AVAILABLE FROM U.S. ACCESS BOARD
CODE OF FEDERAL REGULATIONS
CFR AVAILABLE FROM GOVERNMENT PRINTING OFFICE
E. STATE GOVERNMENT AGENCIES: WHERE ABBREVIATIONS AND ACRONYMS ARE USED IN SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THEY SHALL MEAN THE RECOGNIZED NAME OF THE ENTITIES IN THE FOLLOWING LIST.
CDHS CALIFORNIA DEPARTMENT OF HEALTH SERVICES
CDPH CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, INDOOR AIR QUALITY SECTION
END OF SECTION 014200

GENERAL CONDITIONS (CONTINUED)

SECTION 017419 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

- 1.1 SUMMARY
A. SALVAGING NONHAZARDOUS DEMOLITION AND CONSTRUCTION WASTE.
B. RECYCLING NONHAZARDOUS DEMOLITION AND CONSTRUCTION WASTE.
C. DISPOSING OF NONHAZARDOUS DEMOLITION AND CONSTRUCTION WASTE.
1.2 DEFINITIONS
A. CONSTRUCTION WASTE: BUILDING AND SITE IMPROVEMENT MATERIALS AND OTHER SOLID WASTE RESULTING FROM CONSTRUCTION, REMODELING, RENOVATION, OR REPAIR OPERATIONS. CONSTRUCTION WASTE INCLUDES PACKAGING.
B. DEMOLITION WASTE: BUILDING AND SITE IMPROVEMENT MATERIALS RESULTING FROM DEMOLITION OR SELECTIVE DEMOLITION OPERATIONS.
C. DISPOSAL: REMOVAL OFF-SITE OF DEMOLITION AND CONSTRUCTION WASTE AND SUBSEQUENT SALE, RECYCLING, REUSE, OR DEPOSIT IN LANDFILL OR INCINERATOR ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
D. RECYCLE: RECOVERY OF DEMOLITION OR CONSTRUCTION WASTE FOR SUBSEQUENT PROCESSING IN PREPARATION FOR REUSE.
E. SALVAGE: RECOVERY OF DEMOLITION OR CONSTRUCTION WASTE AND SUBSEQUENT SALE OR REUSE IN ANOTHER FACILITY.
F. SALVAGE AND REUSE: RECOVERY OF DEMOLITION OR CONSTRUCTION WASTE AND SUBSEQUENT INCORPORATION INTO THE WORK.
1.3 PERFORMANCE REQUIREMENTS
A. END-OF-PROJECT RATES FOR SALVAGE/RECYCLING: [50] [75] PERCENT.
1.4 ACTION SUBMITTALS
A. WASTE MANAGEMENT PLAN: SUBMIT PLAN WITHIN 7 DAYS OF DATE ESTABLISHED FOR COMMENCEMENT OF THE WORK
1. TYPES AND QUANTITIES OF DEMOLITION AND CONSTRUCTION WASTE.
2. TYPE OF WASTE AND WHETHER IT WILL BE SALVAGED, RECYCLED, OR DISPOSED OF IN LANDFILL OR INCINERATOR.
3. NET ADDITIONAL COST OR NET SAVINGS RESULTING FROM WASTE MANAGEMENT PLAN.
1.5 INFORMATION SUBMITTALS
A. WASTE REDUCTION PROGRESS REPORTS: CONCURRENT WITH EACH APPLICATION FOR PAYMENT, SUBMIT REPORT INDICATING TYPE OF WASTE AND WHETHER IT HAS BEEN SALVAGED, RECYCLED, OR DISPOSED OF IN LANDFILL OR INCINERATOR.
B. WASTE DISPOSAL RECORDS: INDICATE RECEIPT AND ACCEPTANCE OF WASTE MATERIAL BY ACCEPTING AND PROCESSING FACILITIES LICENSED TO ACCEPT THEM. INCLUDE MATERIAL, TYPE OF MATERIAL, WEIGHT OR VOLUME TICKETS, RECEIPTS, AND INVOICES.
C. LEED SUBMITTAL: CWM REPORTING TEMPLATE, TABULATING TOTAL WASTE MATERIAL, QUANTITIES DIVERTED AND MEANS BY WHICH IT IS DIVERTED, AND STATEMENT THAT REQUIREMENTS FOR THE CREDIT HAVE BEEN MET.
1.6 RECYCLING WASTE
A. RECYCLING INCENTIVES: REVENUES AND OTHER INCENTIVES FOR RECYCLING WILL ACCRUE TO OWNER.
END OF SECTION 017419

EXISTING CONDITIONS

SECTION 024119 - SELECTIVE DEMOLITION

- 1.1 SUMMARY
A. DEMOLITION AND REMOVAL OF [PORTIONS OF A BUILDING OR STRUCTURE] [SELECTED SITE ELEMENTS].
B. HISTORIC ITEMS REMOVED AND SALVAGED FOR OWNER.
1.2 SUBMITTALS
A. SCHEDULE OF SELECTIVE DEMOLITION ACTIVITIES: INDICATE THE FOLLOWING:
1. DETAILED SEQUENCE OF SELECTIVE DEMOLITION AND REMOVAL WORK, WITH STARTING AND ENDING DATES FOR EACH ACTIVITY. ENSURE OWNER'S [BUILDING MANAGER'S] [AND] [OTHER TENANTS'] ON-SITE OPERATIONS ARE UNINTERRUPTED.
2. INTERRUPTION OF UTILITY SERVICES. INDICATE HOW LONG UTILITY SERVICES WILL BE INTERRUPTED.
3. COORDINATION FOR SHUTOFF, CAPPING, AND CONTINUATION OF UTILITY SERVICES.
4. USE OF ELEVATOR AND STAIRS.
5. COORDINATION OF OWNER'S CONTINUING OCCUPANCY OF PORTIONS OF EXISTING BUILDING AND OF OWNER'S PARTIAL OCCUPANCY OF COMPLETED WORK.
1.3 PROJECT CONDITIONS
A. OWNER WILL [NOT] OCCUPY PORTIONS OF BUILDING IMMEDIATELY ADJACENT TO SELECTIVE DEMOLITION AREA.
B. HAZARDOUS MATERIALS: UNKNOWN WHETHER HAZARDOUS MATERIALS WILL BE ENCOUNTERED. IF ENCOUNTERED, OWNER WILL REMOVE HAZARDOUS MATERIALS UNDER A SEPARATE CONTRACT.
1.4 WARRANTY
A. EXISTING WARRANTIES: [LIST LIST OF EXISTING WARRANTIES AFFECTED BY SELECTIVE DEMOLITION].
1.5 EXECUTION
A. UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS: MAINTAINED TO OCCUPIED FACILITY.
1. SHUTOFF BY [OWNER] [BUILDING MANAGER] [CONTRACTOR].
B. SITE ACCESS AND TEMPORARY CONTROLS: MINIMUM INTERFERENCE WITH ROADS, STREETS, WALLS, WALKWAYS, AND OTHER ADJACENT OCCUPIED AREAS.
C. TEMPORARY FACILITIES: PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN.
D. TEMPORARY SHORING: PROVIDE AND MAINTAIN SHORING, BRACING, AND TEMPORARY SUPPORTS AS REQUIRED TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF CONSTRUCTION AND FINISHES TO REMAIN. PROVIDE TEMPORARY BRACING OR UNCONTROLLED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED.
E. REMOVED AND SALVAGED ITEMS: CLEANED, CRATED, STORED, AND TRANSPORTED TO OWNER'S [ON] [OFF]-SITE STORAGE AREA.
F. REMOVED AND REINSTALLED ITEMS: CLEANED, REPAIRED, CRATED, STORED, AND REINSTALLED.
G. EXISTING ITEMS TO REMAIN: EXISTING CONSTRUCTION PROTECTED AGAINST DAMAGE.
H. DISPOSAL OF DEMOLISHED ITEMS:
1. BURNING: NOT PERMITTED.
2. DISPOSAL: COMPLY WITH REQUIREMENTS SECTION 017419 "CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL".
END OF SECTION 024119

CONCRETE

SECTION 033000 - CAST-IN-PLACE CONCRETE

- 1.1 SUMMARY
A. CAST-IN-PLACE CONCRETE, INCLUDING FORMWORK, REINFORCEMENT, CONCRETE MATERIALS, MIXTURE DESIGN, PLACEMENT PROCEDURES, AND FINISHES, FOR THE FOLLOWING:
1. FOOTINGS.
2. FOUNDATION WALLS.
3. SLABS-ON-GRADE.
1.2 SUBMITTALS
A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
B. SHOP DRAWINGS:
1. REINFORCING: PLACING DRAWINGS THAT DETAIL FABRICATION, BENDING, AND PLACEMENT. INCLUDE BAR SIZES, LENGTHS, MATERIAL, GRADE, BAR SCHEDULES, STIRRUP SPACING, BENT BAR DIAGRAMS, BAR ARRANGEMENT, SPLICES AND LAPS, MECHANICAL CONNECTIONS, TIE SPACING, HOOP SPACING, AND SUPPORTS FOR CONCRETE REINFORCEMENT.
2. SLAB LAYOUTS: DIMENSION LOCATIONS OF CONTROL EXPANSION, AND CONSTRUCTION JOINTS. RELATE TO BUILDING GRID LINES.
C. DESIGN MIXTURES: FOR EACH CONCRETE MIXTURE, SUBMIT ALTERNATE DESIGN MIXTURES WHEN CHARACTERISTICS OF MATERIALS, PROJECT CONDITIONS, WEATHER, TEST RESULTS, OR OTHER CIRCUMSTANCES WARRANT ADJUSTMENTS.
1. INDICATE AMOUNTS OF MIXING WATER TO BE WITHHELD FOR LATER ADDITION AT PROJECT SITE.
D. CERTIFICATIONS: SUBMIT MILL CERTIFICATES FOR CEMENT, AGGREGATES, AND REINFORCING.
1.3 MATERIALS
A. STEEL REINFORCEMENT:
1. REINFORCING BARS: DEFORMED.
a. MINIMUM RECYCLED CONTENT: 60%
2. MILD-STEEL WELDED WIRE REINFORCEMENT: ASTM A 185, PLAIN, FABRICATED FROM AS-DRAWN STEEL WIRE INTO FLAT SHEETS.
B. CONCRETE MATERIALS:
1. PORTLAND CEMENT: ASTM C 150, TYPE I, GRAY, SUPPLEMENT WITH THE FOLLOWING:
a. FLY ASH: ASTM C 618, CLASS F OR C.
b. GROUND GRANULATED BLAST-FURNACE SLAG: ASTM C 689, GRADE 100 OR 120.
2. AGGREGATE: NORMAL WEIGHT.
3. WATER: ASTM C 94/C 94M.
4. ADMIXTURES: PROVIDE ADMIXTURES CERTIFIED BY MANUFACTURER TO BE COMPATIBLE WITH OTHER ADMIXTURES AND THAT WILL NOT CONTRIBUTE WATER-SOLUBLE CHLORIDE IONS EXCEEDING THOSE PERMITTED IN HARDENED CONCRETE. DO NOT USE CALCIUM CHLORIDE ADMIXTURES CONTAINING CALCIUM CHLORIDE.
a. AIR-ENTRAINMENT: ASTM C 260.
b. WATER-REDUCING ADMIXTURE: ASTM C 94/C 94M, TYPE A.
c. HIGH-RANGE WATER-REDUCING ADMIXTURE: ASTM C 484/C 484M, TYPE F.
C. WATERPROOFING: RUBBER.
D. PLASTIC FORM OR RETAINER: ASTM E 174, CLASS A. INCLUDE MANUFACTURER'S RECOMMENDED ADHESIVE OR PRESSURE-SENSITIVE JOINT TAPE.
E. CURING MATERIALS: WATERBORNE, MONOMOLECULAR FILM FORMING, MANUFACTURED FOR APPLICATION TO FRESH CONCRETE.
F. REPAIR MATERIALS:
1. EXPANSION AND CONTRACTION-JOINT-FILLER STRIPS ASTM D 1751, ASPHALT-EMULSION OR CELLULOSIC FIBER OR ASTM D 1752, CORK OR SELF-LEVELING CORK.
2. BONDING AGENT: ASTM C 1059/C 1059M, TYPE II, NON-REDISPERSIBLE, ACRYLIC EMULSION OR STYRENE BUTADIENE.
3. NON-SHRINK GROUTS: ASTM C 1107, GRADE B; NON-SHRINK NON-CATALYZED NATURAL AGGREGATE GROUT; MINIMUM COMPRESSIVE STRENGTH OF 7000 PSI AT 28 DAYS; 25 TO 30 SECOND FLOW WHEN TESTED IN ACCORDANCE WITH ASTM C 939 AT 45 TO 90 DEGREES F; CEMENT GRAY IN COLOR.
4. FORM RELEASE COATING: WATER BASED TYPE; VOC <150G/L; NOX-CRETE "UTILITY RELEASE. CRESSET CHEMICAL COMPANY CRETE 20 "VOC," OR APPROVED; NON STAINING.
G. REPAIR MATERIALS:
1. REPAIR UNDERLAYMENT: CEMENT-BASED, POLYMER-MODIFIED, SELF-LEVELING PRODUCT THAT CAN BE APPLIED IN THICKNESSES FROM 1/8 INCH (3.2 MM) AND THAT CAN BE FEATHERED AT EDGES TO MATCH ADJACENT FLOOR ELEVATIONS.
a. CEMENT BINDER: ASTM C 150, PORTLAND CEMENT OR HYDRAULIC OR BLENDED HYDRAULIC CEMENT AS DEFINED IN ASTM C 219.
b. PRIMER: PRODUCT OF UNDERLAYMENT MANUFACTURER RECOMMENDED FOR SUBSTRATE, CONDITIONS, AND APPLICATION.
c. AGGREGATE: WELL-GRADED, WASHED GRAVEL, 1/8 TO 1/4 INCH (3.2 TO 6 MM) OR COARSE SAND AS RECOMMENDED BY UNDERLAYMENT MANUFACTURER.
d. COMPRESSIVE STRENGTH: NOT LESS THAN 4100 PSI (29 MPa) AT 28 DAYS WHEN TESTED ACCORDING TO ASTM C 109/C 109M.
2. REPAIR OVERLAYMENT: CEMENT-BASED, POLYMER-MODIFIED, SELF-LEVELING PRODUCT THAT CAN BE APPLIED IN THICKNESSES FROM 1/8 INCH (3.2 MM) AND THAT CAN BE FEATHERED AT EDGES TO MATCH ADJACENT FLOOR ELEVATIONS.
a. CEMENT BINDER: ASTM C 150, PORTLAND CEMENT OR HYDRAULIC OR BLENDED HYDRAULIC CEMENT AS DEFINED IN ASTM C 219.
b. PRIMER: PRODUCT OF TOPPING MANUFACTURER RECOMMENDED FOR SUBSTRATE, CONDITIONS, AND APPLICATION.
c. AGGREGATE: WELL-GRADED, WASHED GRAVEL, 1/8 TO 1/4 INCH (3.2 TO 6 MM) OR COARSE SAND AS RECOMMENDED BY TOPPING MANUFACTURER.
d. COMPRESSIVE STRENGTH: NOT LESS THAN 5000 PSI (34.5 MPa) AT 28 DAYS WHEN TESTED ACCORDING TO ASTM C 109/C 109M.
1.4 INSTALLATION
A. FLOOR AND SLAB FINISHES:
1. FLOAT: SURFACES TO RECEIVE TROWEL FINISH.
2. TROWEL: SURFACES EXPOSED TO VIEW, AND SURFACES TO BE COVERED WITH RESILIENT FLOORING, CARPET, CERAMIC OR QUARRY TILE SET OVER A CLEAVAGE MEMBRANE, PAINT, OR ANOTHER THIN-FILM-FINISH COATING SYSTEM.
3. TROWEL AND FINE BROOM: SURFACES TO BE COVERED WITH CERAMIC OR QUARRY TILE INSTALLED BY EITHER THICKSET OR THIN-SET METHOD.
4. BROOM: EXTERIOR CONCRETE PLATFORMS, STEPS, AND RAMPS.
1.5 FIELD QUALITY CONTROL
A. TESTING: BY [OWNER] [CONTRACTOR]-ENGAGED AGENCY.
B. INSPECTIONS: BY OWNER-ENGAGED SPECIAL INSPECTOR.
END OF SECTION 033000

CONCRETE (CONTINUED)

SECTION 033500 - CONCRETE FINISH

- 1.1 SUBMITTALS
A. QUALIFICATION DATA: FOR QUALIFIED APPLICATOR.
B. MATERIAL CERTIFICATES.
1.2 FLOOR AND SLAB TREATMENTS
A. VOC CONTENT: FLOOR TREATMENTS SHALL HAVE A VOC CONTENT OF 200 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
B. UNPIGMENTED MINERAL DRY-SHAKE FLOOR HARDENER: FACTORY-PACKAGED DRY COMBINATION OF PORTLAND CEMENT, GRADED QUARTZ AGGREGATE, AND PLASTICIZING ADMIXTURE.
C. PIGMENTED MINERAL DRY-SHAKE FLOOR HARDENER: FACTORY-PACKAGED, DRY COMBINATION OF PORTLAND CEMENT, GRADED QUARTZ AGGREGATE, COLOR PIGMENTS, AND PLASTICIZING ADMIXTURE. USE COLOR PIGMENTS THAT ARE FINELY GROUND, NONFADING MINERAL OXIDES INTERGROUND WITH CEMENT.
1.3 LIQUID FLOOR TREATMENTS
A. VOC CONTENT: LIQUID FLOOR TREATMENTS SHALL HAVE A VOC CONTENT OF 200 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
B. PENETRATING LIQUID FLOOR TREATMENT: CLEAR OR LIGHTLY REACTIVE WATERBORNE SOLUTION OF INORGANIC SILICATE OR SILICONE MATERIALS AND PROPRIETARY COMPONENTS, ODORLESS, THAT PENETRATES, CURE, AND DENSIFIES CONCRETE SURFACES.
C. PENETRATING LIQUID FLOOR TREATMENT: POLISHED CONCRETE FINISH: CLEAR WATERBORNE SOLUTION OF ORGANIC SILICATE OR SILICONE MATERIALS AND PROPRIETARY COMPONENTS; ODORLESS, THAT PENETRATES, HARDENS, AND IS SUITABLE FOR POLISHING CONCRETE SURFACES.
1.4 INSTALLATION
A. DRY-SHAKE FLOOR HARDENER FINISH: AFTER INITIAL FLOATING, APPLY DRY-SHAKE FLOOR HARDENER TO SURFACES.
B. PENETRATING LIQUID FLOOR TREATMENT: PREPARE, APPLY, AND FINISH CLEAR WATERBORNE SOLUTION OR TREATMENT ACCORDING TO MANUFACTURER'S TYPICAL INSTRUCTIONS.
C. POLISHING COMPOUND: APPLY A CONTINUOUS SEALING COAT OF CURING AND SEALING COMPOUND TO HARDENED CONCRETE BY POWER SPRAY OR ROBOT, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
D. PROTECT LIQUID FLOOR TREATMENT FROM DAMAGE AND WEAR DURING THE REMAINDER OF CONSTRUCTION PERIOD. USE PROTECTIVE METHODS AND MATERIALS, INCLUDING TEMPORARY COVERING, RECOMMENDED IN WRITING BY LIQUID FLOOR TREATMENTS INSTALLER.
END OF SECTION 033500
SECTION 035416 - HYDRAULIC-CEMENT-BASED UNDERLAYMENT
1.1 SUMMARY
A. HYDRAULIC-CEMENT-BASED UNDERLAYMENT FOR USE BELOW INTERIOR FLOOR COVERINGS.
1.2 MATERIALS
A. UNDERLAYMENT: HYDRAULIC-CEMENT-BASED, POLYMER-MODIFIED, SELF-LEVELING PRODUCT THAT CAN BE APPLIED IN MINIMUM UNIFORM THICKNESS OF 1/4 INCH (6MM) AND THAT CAN BE FEATHERED AT EDGES TO MATCH ADJACENT FLOOR ELEVATIONS.
1. CEMENT BINDER: PORTLAND CEMENT, OR OTHER HYDRAULIC OR BLENDED HYDRAULIC CEMENT.
B. PRIMER: PRODUCT OF UNDERLAYMENT MANUFACTURER RECOMMENDED IN WRITING FOR SUBSTRATE, CONDITIONS, AND APPLICATION INDICATED.
1. PRIMER SHALL HAVE A VOC CONTENT OF 200 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D.
END OF SECTION 035416
METALS
SECTION 055000 - METAL FABRICATIONS
1.1 SUMMARY
A. STEEL FRAMING AND SUPPORTS FOR MECHANICAL AND ELECTRICAL EQUIPMENT.
B. STEEL FRAMING AND SUPPORTS FOR APPLICATIONS WHERE FRAMING AND SUPPORTS ARE NOT SPECIFIED IN OTHER SECTIONS.
C. SHELF ANGLES.
D. METAL BOLLARDS.
1.2 SUBMITTALS
A. PRODUCT DATA: FOR THE FOLLOWING:
1. PAINT PRODUCTS.
2. GROUT.
3. ALL PREFABRICATED PRODUCTS.
B. SHOP DRAWINGS: SHOW FABRICATION AND INSTALLATION DETAILS FOR METAL FABRICATIONS.
1. INCLUDE PLANS, ELEVATIONS, SECTIONS, AND DETAILS OF METAL FABRICATIONS AND THEIR CONNECTIONS. SHOW ANCHORAGE AND ACCESSORY ITEMS.
2. PROVIDE TEMPLATES FOR ANCHORS AND BOLTS SPECIFIED FOR INSTALLATION UNDER OTHER SECTIONS.
C. WELDING CERTIFICATES.
1.3 PRODUCTS
A. MATERIALS: STEEL PLATES, SHAPES, AND BARS, STEEL PIPE, SLOTTED CHANNEL FRAMING.
1. LOW-EMITTING PRIMER: METAL PRIMER SHALL HAVE A VOC CONTENT OF 200 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
B. MISCELLANEOUS FRAMING AND SUPPORTS:
1. STEEL FRAMING AND SUPPORTS FOR MECHANICAL AND ELECTRICAL EQUIPMENT, APPLICATIONS WHERE FRAMING AND SUPPORTS ARE NOT SPECIFIED IN OTHER SECTIONS.
2. GALVANIZE WHERE INDICATED.
3. PRIME WITH ZINC-RICH PRIMER WHERE INDICATED.
a. ZINC-RICH PRIMER SHALL HAVE A VOC CONTENT OF 340 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
C. LOOSE STEEL LINTELS: GALVANIZED AT EXTERIOR WALLS.
D. SHELF ANGLES: GALVANIZED.
E. STEEL WELD PLATES AND ANGLES NOT SPECIFIED IN OTHER SECTIONS, FOR CASTING INTO CONCRETE.
F. METAL BOLLARDS: SCHEDULE 40 STEEL PIPE.
END OF SECTION 055000



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SHEET TITLE:
CONSTRUCTION SPECIFICATIONS
SCALE: NO SCALE

SHEET NUMBER:
G-010

