\$10,000.

1.1 SCHEDULE OF ALTERNATES

AND COMMON AREAS.

2. ALTERNATE: PROVIDE NFPA 13 AUTOMATIC SPRINKLER SYSTEM.

GENERAL CONTRACTOR'S CONSTRUCTION CONTRACT.

F2 ON DRAWINGS) BETWEEN 1ST & 2ND FLOORS.

STAIR #2 SHALL HAVE A 1-HR RATED, TYPE W2 WALL ASSEMBLY. ALTERNATE NO. 3: FIRST FLOOR WINDOWS

1. BASE BID: WINDOWS ONLY ON SECOND FLOOR

FLOOR.

SECTION 012500 - SUBSTITUTION PROCEDURES

B. ARCHITECT'S ACTION: IF NECESSARY, ARCHITECT WILL REQUEST ADDITIONAL INFORMATION WITHIN SEVEN DAYS OF RECEIPT OF A REQUEST FOR REJECTION WITHIN 15 DAYS OF RECEIPT, OR SEVEN DAYS OF RECEIPT OF

1.2 SUBSTITUTIONS

A. SUBSTITUTIONS: NOT LATER THAN 15 DAYS PRIOR TO TIME REQUIRED FOR

SECTION 013100 - PROJECT MANAGEMENT AND COORDINATION

1.1 COORDINATION DRAWINGS

PREPARE COORDINATION DRAWINGS WHERE SPACE IS LIMITED OR IF REQUIRED TO INTEGRATE PRODUCTS.

1.2 REQUESTS FOR INFORMATION (RFIS)

A. SCHEDULE AND CONDUCT MEETINGS.

B. PRECONSTRUCTION CONFERENCE.

A. RFI FORMS: SOFTWARE-GENERATED FORM ACCEPTABLE TO ARCHITECT

B. ARCHITECT'S ACTION: ALLOW SEVEN WORKING DAYS FOR ARCHITECT'S RESPONSE FOR EACH RFI.

1.3 PROJECT MEETINGS

PORTLAND, ME 04101, (207) 772-6005.

1. PROJECT LOCATION: 50 COVE STREET, PORTLAND, ME 04101.

A. NOTICE TO BIDDERS: PREQUALIFIED BIDDERS ARE INVITED TO SUBMIT BIDS.

DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS

B. PROJECT IDENTIFICATION: 16040 - MULTI-USE SHELL

D. ARCHITECT: BILD ARCHITECTURE, 30 DANFORTH STREET, SUITE 213, PORTLAND, ME 04101, (207) 408-0168.

C. OWNER: PETER BASS, RANDOM ORBIT, INC., 30 DANFORTH STREET, SUITE 213,

E. CONSTRUCTION MANAGER: WRIGHT RYAN CONSTRUCTION, INC., 10 DANFORTH

STREET, PORTLAND, ME 04101, (207) 773-3625. F. CONSTRUCTION CONTRACT: GENERAL CONTRACT (ALL TRADES) PROJECT.

1.2 BIDDER'S QUALIFICATIONS

A. BIDDERS MUST BE PREQUALIFIED BY OWNER. B. BIDDERS MUST BE PROPERLY LICENSED AND BE ABLE TO OBTAIN REQUIRED

BONDS. A 100% PERFORMANCE AND PAYMENT BOND WILL BE REQUIRED. SEQUENTIAL REVIEW: 21 DAYS. C. THE CONTRACTOR AND THEIR SUBCONTRACTORS SHALL BE ADDED AS 4. CONCURRENT CONSULTANT REVIEW: 15 DAYS. ADDITIONAL NAMES INSURED ON THE OWNER'S POLICY.

DOCUMENT 003113 - PRELIMINARY SCHEDULE

1.1 PROJECT SCHEDULE

001116 - INVITATION TO BID

1.1 PROJECT INFORMATION

A. ANTICIPATED PROJECT START: SPRING 2018. B. ANTICIPATED PROJECT DURATION: 6-MONTHS.

DIVISION 01 - GENERAL REQUIREMENTS

SECTION 011000 - SUMMARY

1.1 PROJECT INFORMATION A. PROJECT IDENTIFICATION: 16040 - MULTI-USE SHELL.

1. PROJECT LOCATION: 50 COVE STREET, PORTLAND, ME 04101.

B. OWNER: PETER BASS, RANDOM ORBIT, INC., 30 DANFORTH STREET, SUITE 213, PORTLAND, ME 04101, (207) 772-6005.

OWNERS'S CONSULTANT: THE OWNER HAS RETAINED THE FOLLOWING DESIGN PROFESSIONALS WHO HAVE PREPARED DESIGNATED PORTIONS OF THE

CONTRACT DOCUMENTS: A. BENNETT ENGINEERING: WILL BENNETT, P.E., 7 BENNETT RD, FREEPORT, ME

B. ARCHITECT: BILD ARCHITECTURE, 30 DANFORTH STREET, SUITE 213, PORTLAND,

ME 04101, (207) 408-0168. C. ARCHITECT'S CONSULTANTS: THE ARCHITECT HAS RETAINED THE FOLLOWING DESIGN PROFESSIONALS WHO HAVE PREPARED DESIGNATED PORTIONS OF THE

CONTRACT DOCUMENTS: 1. STRUCTURAL ENGINEER: AARON JONES, P.E., STRUCTURAL INTEGRITY, 77

OAK STREET, PORTLAND, ME 04101, (207) 774-4614. OTHER OWNER CONSULTANTS:

1. ACORN ENGINEERING, INC.: WILL SAVAGE, P.E, CIVIL ENGINEER, 158 DANFORTH ST. PORTLAND, ME 04102 (207) 775-2655

2. STEPHEN TIBBETS, P.E., CONSULTING CIVIL ENGINEER, 15 OAK RIDGE RD., BRUNSWICK, ME 04011, (207) 725-2667.

F. CONSTRUCTION MANAGER, ADVISOR: WRIGHT RYAN CONSTRUCTION, INC., 10 DANFORTH STREET, PORTLAND, ME 04101, (207) 773-3625. WORK COVERED BY CONTRACT DOCUMENTS

A. THE WORK OF PROJECT: THIS PROJECT INCLUDES THE CONSTRUCTION OF A 9,500 SQUARE FOOT, TWO STORY BUILDING SHELL FOR INTENDENT SEPARATED BUSINESS AND MERCANTILE. THE CONSTRUCTION TYPE FOR THIS BUILDING IS VB, AND THE BUILDING WILL NOT BE PROTECTED BY AN AUTOMATIC SPRINKLER

SYSTEM (BASE BID). B. TYPE OF CONTRACT: SINGLE PRIME CONTRACTS.

SECTION 012100 - ALLOWANCES

1.1 SCHEDULE OF ALLOWANCES

A. ALLOWANCE NO. 3: EXTERIOR SIGNAGE ALLOWANCE: INCLUDE THE SUM OF

B. ALLOWANCE NO. 4: INTERIOR SIGNAGE ALLOWANCE: INCLUDE THE SUM OF

C. ALLOWANCE NO. 5: FIRE EXTINGUISHER AND CABINET ALLOWANCE: INCLUDE THE SUM OF \$1,000.

SECTION 012300 - ALTERNATES

A. ALTERNATE NO. 1: POLISHED CONCRETE FLOORS.

1. BASE BID: POLISHED CONCRETE SLAB TO BE LOCATED ONLY IN BATHROOMS

2. ADD ALTERNATE: POLISHED CONCRETE SLAB AT THE ENTIRE FIRST FLOOR.

B. ALTERNATE NO. 2: SPRINKLER SYSTEM.

BASE BID: BUILDING SHALL BE LINSPRINKLERED

AUTOMATIC SPRINKLER SYSTEM TO BE DELEGATED DESIGNED UNDER

PROVIDE 1-HR RATED CEILING ASSEMBLY (REPLACE ASSEMBLY F1 WITH

2. ADD ALTERNATE: PRICE WINDOWS SHOWN AS "ADD ALTERNATE" ON FIRST

1.1 ACTION SUBMITTALS

C. DOCUMENTATION:

 PRODUCT DATA SAMPLES.

SUBSTITUTION. ARCHITECT WILL NOTIFY CONTRACTOR OF ACCEPTANCE OR ADDITIONAL INFORMATION.

PREPARATION AND REVIEW OF SUBMITTALS.

SECTION 017700 - CLOSEOUT PROCEDURES

A. PRELIMINARY PROCEDURES: BEFORE REQUESTING INSPECTION, COMPLETE THE

1. CONTRACTOR'S LIST OF INCOMPLETE ITEMS (PUNCH LIST).

a. SUBMIT PDF ELECTRONIC FILE.

2. OWNER ADVISED OF PENDING INSURANCE CHANGEOVER. 3. WARRANTIES, MAINTENANCE SERVICE AGREEMENTS, AND SIMILAR DOCUMENTS SUBMITTED.

RELEASES, OCCUPANCY PERMITS, AND OPERATING CERTIFICATES SUBMITTED.

C. PREINSTALLATION CONFERENCES: BEFORE EACH CONSTRUCTION ACTIVITY THAT

D. PROGRESS MEETINGS: AT REGULAR INTERVALS, COORDINATED WITH

A. ACTION SUBMITTALS: INFORMATION THAT REQUIRES ARCHITECT'S RESPONSIVE

A. ELECTRONIC COPIES OF DIGITAL DATA FILES OF THE CONTRACT DRAWINGS WILL

D. DELEGATED-DESIGN SERVICES CERTIFICATION: IN ADDITION TO OTHER REQUIRED

ACTION SUBMITTALS: STAMPED WITH AN ACTION STAMP AND RETURNED.

B. HVAC EQUIPMENT: PROVIDE VENTED, SELF-CONTAINED HEATERS WITH

C. SANITARY FACILITIES: PROVIDE TEMPORARY TOILETS, WASH FACILITIES, AND

D. HEATING: PROVIDE TEMPORARY HEATING REQUIRED BY CONSTRUCTION

A. TEMPORARY USE OF PERMANENT ROADS AND PAVED AREAS: LOCATE

C. DEWATERING FACILITIES AND DRAINS: MAINTAIN PROJECT SITE, EXCAVATIONS,

D. COVERED WALKWAY: ERECT PROTECTIVE, COVERED WALKWAY FOR PASSAGE OF

A. EXISTING CONDITIONS: EXISTENCE AND LOCATION OF SITE IMPROVEMENTS

D. FIELD ENGINEERING: OWNER WILL IDENTIFY EXISTING BENCHMARKS, CONTROL

A. CLEAN PROJECT SITE AND WORK AREAS DAILY. DISPOSE OF MATERIALS

A. START EQUIPMENT AND OPERATING COMPONENTS TO CONFIRM PROPER

A. PROVIDE FINAL PROTECTION AND MAINTAIN CONDITIONS THAT ENSURE WORK IS

E. INSTALLATION: COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

UTILITIES, AND OTHER CONSTRUCTION AFFECTING THE WORK MUST BE

CONSTRUCTION LAYOUT: ENGAGE A LAND SURVEYOR TO LAY OUT THE WORK

POINTS, AND PROPERTY CORNERS. LOCATE EXISTING PERMANENT BENCHMARKS,

B. PARKING: USE DESIGNATED AREAS OF OWNER'S EXISTING PARKING AREAS.

TEMPORARY ROADS AND PAVED AREAS IN SAME LOCATION AS PERMANENT

1.0 CONTRACTOR TO BE RESPONSIBLE FOR ALL CONDITION LISTED IN THE

SUBMITTALS, SUBMIT DIGITALLY SIGNED PDF ELECTRONIC FILE AND THREE PAPER

COPIES OF CERTIFICATE, SIGNED AND SEALED BY THE RESPONSIBLE DESIGN

SUBMITTALS: MARKED WITH APPROVAL STAMP BEFORE SUBMITTING TO

BE PROVIDED BY ARCHITECT FOR CONTRACTOR'S USE.

2. ACTION SUBMITTALS: SUBMIT THREE PAPER COPIES.

REQUIRES COORDINATION

SECTION 013300 - SUBMITTAL PROCEDURES

1. INITIAL REVIEW: 15 DAYS.

C. SUBMITTAL PROCEDURES:

E. CONTRACTOR'S REVIEW:

ARCHITECT.

F. ARCHITECT'S ACTION:

1.1 USE CHARGES

1.3 EQUIPMENT

1.2 TEMPORARY FACILITIES

A. FIRE EXTINGUISHERS.

A. SEWERS AND DRAINAGE.

RESUBMITTAL REVIEW: 15 DAYS.

SUBMIT VIA EMAIL AS PDF FILES.

SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS

CONSTRUCTION MANAGEMENT PLAN SHOWN ON SITE PLAN

C. ELECTRIC POWER SERVICE: OWNER WILL PAY CHARGES.

INDIVIDUAL SPACE THERMOSTATIC CONTROL.

E. ELECTRIC POWER SERVICE: PROVIDE OVERHEAD SERVICE.

A. COMMON-USE FIELD OFFICE: PREFABRICATED OR MOBILE UNITS.

A. SEWER SERVICE: OWNER WILL PAY CHARGES.

B. WATER SERVICE: OWNER WILL PAY CHARGES.

B. STORAGE AND FABRICATION SHEDS

1.4 TEMPORARY UTILITY INSTALLATION

B. WATER SERVICE: INSTALL WATER SERVICE.

F. LIGHTING: PROVIDE TEMPORARY LIGHTING.

AND CONSTRUCTION FREE OF WATER.

1.6 SECURITY AND PROTECTION FACILITIES INSTALLATION

A. TEMPORARY EROSION AND SEDIMENTATION CONTROL.

INDIVIDUALS THROUGH OR ADJACENT TO PROJECT SITE.

B. REVIEW OF THE CONTRACT DOCUMENTS AND FIELD CONDITIONS.

CONTROL POINTS, AND SIMILAR REFERENCE POINTS.

1.5 SUPPORT FACILITIES INSTALLATION

ROADS AND PAVED AREAS.

B. STORMWATER CONTROL.

SECTION 017300 - EXECUTION

1.2 PROGRESS CLEANING

B. KEEP INSTALLED WORK CLEAN.

1.3 STARTING AND ADJUSTING

WITHOUT DAMAGE.

1.1 SUBSTANTIAL COMPLETION

C. REMOVE DEBRIS FROM CONCEALED SPACES.

B. ADJUST EQUIPMENT FOR PROPER OPERATION.

1.4 PROTECTION OF INSTALLED CONSTRUCTION

LAWFULLY.

1.1 EXECUTION

C. TREE AND PLANT PROTECTION.

INVESTIGATED AND VERIFIED.

USING ACCEPTED SURVEYING PRACTICES.

1.1 DEFINITIONS

ACTION.

1.2 PROCEDURES

B. PROCESSING TIME:

PREPARATION OF PAYMENT REQUESTS.

PROJECT RECORD DOCUMENTS SUBMITTED.

6. TOOLS, SPARE PARTS, AND EXTRA MATERIALS DELIVERED.

FINAL CHANGEOVER OF LOCKS PERFORMED.

STARTUP TESTING COMPLETED. 9. TEST/ADJUST/BALANCE RECORDS SUBMITTED.

10. TEMPORARY FACILITIES REMOVED.

11. OWNER ADVISED OF HEAT AND UTILITY CHANGEOVER. 12. CHANGEOVER INFORMATION FOR USE, OPERATION, AND MAINTENANCE SUBMITTED.

13. FINAL CLEANING PERFORMED

14. TOUCHUP PERFORMED.

1.2 FINAL COMPLETION

A. PRELIMINARY PROCEDURES: BEFORE REQUESTING FINAL INSPECTION,

COMPLETE THE FOLLOWING: 1. FINAL APPLICATION FOR PAYMENT SUBMITTED.

2. LIST OF INCOMPLETE ITEMS (PUNCH LIST) ENDORSED BY ARCHITECT AS COMPLETED OR OTHERWISE RESOLVED FOR ACCEPTANCE.

3. EVIDENCE OF CONTINUING INSURANCE COVERAGE SUBMITTED. 1.3 SUBMITTAL OF PROJECT WARRANTIES

A. PARTIAL OCCUPANCY: SUBMIT WARRANTIES WITHIN 15 DAYS OF COMPLETION OF DESIGNATED PORTIONS OF THE WORK THAT ARE OCCUPIED OR USED BY OWNER.

B. SCAN WARRANTIES AND BONDS INTO A SINGLE INDEXED ELECTRONIC PDF FILE.

A. CLEAN EACH SURFACE OR UNIT TO CONDITION EXPECTED IN AN AVERAGE COMMERCIAL BUILDING CLEANING AND MAINTENANCE PROGRAM.

B. REPLACE DISPOSABLE AIR FILTERS AND CLEAN PERMANENT AIR FILTERS. C. CLEAN DUCTS, BLOWERS, AND COILS IF UNITS WERE OPERATED WITHOUT

FILTERS DURING CONSTRUCTION. 1.5 REPAIR OF THE WORK

A. REPAIR OR REMOVE AND REPLACE DEFECTIVE CONSTRUCTION. WHERE DAMAGED OR WORN ITEMS CANNOT BE REPAIRED OR RESTORED, PROVIDE REPLACEMENTS. RESTORE DAMAGED CONSTRUCTION AND PERMANENT FACILITIES USED DURING CONSTRUCTION TO SPECIFIED CONDITION.

SECTION 017823 - OPERATION AND MAINTENANCE DATA

1.1 SUMMARY

A. OPERATION AND MAINTENANCE MANUALS

1.2 PRODUCTS

PDF ELECTRONIC FILES WITH COMPOSITE ELECTRONIC INDEX ON DIGITAL

LINKED OPERATION AND MAINTENANCE DIRECTORY. B. OPERATION MANUALS: SYSTEM, SUBSYSTEM, AND EQUIPMENT DESCRIPTIONS, OPERATING PROCEDURES, WIRING DIAGRAMS, CONTROL DIAGRAMS AND

MEDIA ACCEPTABLE TO ARCHITECT. INCLUDE A COMPLETE ELECTRONICALLY

SEQUENCE OF OPERATION, AND PIPED SYSTEM DIAGRAMS. C. PRODUCT MAINTENANCE MANUALS: SOURCE INFORMATION, PRODUCT INFORMATION, MAINTENANCE PROCEDURES, REPAIR MATERIALS AND SOURCES,

AND WARRANTIES AND BONDS D. SYSTEMS AND EQUIPMENT MAINTENANCE MANUALS: SOURCE INFORMATION, MANUFACTURERS' MAINTENANCE DOCUMENTATION, MAINTENANCE PROCEDURES, MAINTENANCE AND SERVICE SCHEDULES, SPARE PARTS LIST AND SOURCE INFORMATION, MAINTENANCE SERVICE CONTRACTS, AND WARRANTIES AND BONDS.

DIVISION 03 - CONCRETE

033000 CAST-IN-PLACE CONCRETE (SEE STRUCUTRAL DRAWINGS)

SECTION 033543 - POLISHED CONCRETE FINISHING

1.1 QUALITY ASSURANCE

A. FIELD SAMPLE PANELS. 1.2 PRODUCTS

A. CONCRETE SEALER.

1. CONCRETE SEALER TO BE INSTALLED AS A COMPLETE SYSTEM WITH WARRANTY FROM THE INSTALLER.

1.3 POLISHING

A. POLISH: LEVEL 2: LOW SHEEN, 400 GRIT.

DIVISION 05 - METALS

051200 STRUCTURAL STEEL FRAMING (SEE STRUCUTRAL DRAWINGS)

055000 METAL FABRICATIONS (SEE STRUCTURAL DRAWINGS)

SECTION 055213 - PIPE AND TUBE RAILINGS 1.1 SUMMARY

A. STEEL PIPE RAILINGS.

1.2 FABRICATION

A. CHANGES IN DIRECTION OF MEMBERS: BY INSERTING PREFABRICATED FITTINGS.

B. CONNECTIONS: NONWELDED, PRE-FABRICATED.

1. BASIS OF DESIGN PRODUCT: SPEED-RAIL BY HOLLAENDER, 10285 WAYNE AVENUE, CINCINNATI, OH 45215; 1-800-772-8800; WWW.HOLLAENDER.COM.

C. INFILL PANELS: WOVEN-WIRE MESH - GALVANIZED

1.3 FINISHES

A. STEEL PIPE: GALVANIZED.

DIVISION 06 - WOODS, PLASTICS, & COMPOSITES

SECTION 061000 - ROUGH CARPENTRY (SEE STRUCTURAL)

SECTION 061600 - SHEATHING

1.1 MATERIALS

A. PRODUCTS, GENERAL:

1. INSULATED SHEATHING PANEL WITH INTEGRAL WEATHER BARRIER.

2. SHEATHING PANEL WITH INTEGRAL WEATHER BARRIER SUBFLOORING AND UNDERLAYMENT.

B. WALL SHEATHING:

1. ORIENTED STRAND BOARD: EXPOSURE 1, STRUCTURAL I, 2-INCH THICK INSULATED SHEATHING WITH 5/8-INCH OSB PANEL AND INTEGRAL WEATHER BARRIER AND TAPED JOINTS.

2. BASIS OF DESIGN PRODUCT: ZIP SYSTEM BY HUBER ENGINEERED WOODS: 10925 DAVID TAYLOR DRIVE, SUITE 300, CHARLOTTE, NC 28262; WWW.HUBERWOOD.COM.

C. ROOF SHEATHING: 1. ORIENTED STRAND BOARD: EXPOSURE 1, STRUCTURAL 1, 5/8 INCH THICK.

2. BASIS OF DESIGN PRODUCT: BASIS OF DESIGN PRODUCT: ZIP SYSTEM BY

HUBER ENGINEERED WOODS; 10925 DAVID TAYLOR DRIVE, SUITE 300, CHARLOTTE, NC 28262; WWW.HUBERWOOD.COM.

D. PARAPET SHEATHING:

1. PLYWOOD: EXTERIOR, STRUCTURAL I, 1/2 INCH THICK.

E. SUBFLOORING AND UNDERLAYMENT:

1. PLYWOOD SUBFLOORING: EXPOSURE 1, STRUCTURAL I, 3/4 INCH THICK.

F. FASTENERS: HOT-DIP GALVANIZED STEEL WHERE EXPOSED TO WEATHER, IN GROUND CONTACT, IN CONTACT WITH TREATED WOOD, OR IN AREA OF HIGH RELATIVE HUMIDITY.

G. MISCELLANEOUS MATERIALS:

SHEATHING TAPE.

2. ADHESIVES: LOW VOC. 1.2 INSTALLATION

SUBFLOORING:

a. NAIL TO WOOD FRAMING.

061753 SHOP-FABRICATED WOOD TRUSSES (SEE STRUCTURAL)

061800 GLUED-LAMINATED CONSTRUCTION (SEE STRUCTURAL)

067300 COMPOSITE WOOD DECKING

1.1 MATERIALS

A. COMPOSITE WOOD: 1. COMPOSITION: RECLAIMED WOOD AND PLASTIC WITH INTEGRAL COLORING

A. DECKING - 2" SQUARE EDGE BOARD

3. COLOR - TBD DURING SUBMITTALS

B. INSTALLATION

1. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

SECTION 070500 - RAINSCREEN DRAINAGE MAT

1.1 QUALITY ASSURANCE:

B. PROVIDE MOCKUP

1.2 WARRANTY:

A. MANUFACTURER'S WARRANTY: SUBMIT, FOR OWNER'S ACCEPTANCE, MANUFACTURER'S

STANDARD WARRANTY DOCUMENT EXECUTED BY AUTHORIZED COMPANY OFFICIAL.

1.3 RAINSCREEN DRAINAGE MAT:

A. RAINSCREEN DRAINAGE MAT WITH MOISTURE RESISTANT FILTER FABRIC 11MM 1. CORE MATERIAL: EXTRUDED POLYMER MATRIX

2. FABRIC MATERIAL: NON-WOVEN POLYPROPYLENE FIBER 1.4 ACCESSORIES

SELF ADHERING FLASHING

A. TYPE: GALVANIZED ROOFING NAILS OR STAPLES

MATERIAL: THERM-FLASH / BUTYL WITH REINFORCED FOIL FILM

FASTENERS:

B. MATERIAL: CORROSION PROTECTED STEEL

A. INSTALL AS PER MANUFACTURERS RECOMMENDATIONS

SECTION 072100 - THERMAL INSULATION 1.1 MATERIALS

1.5 INSTALLATION

A. INSULATION:

 EXTRUDED POLYSTYRENE BOARD: TYPE VI, 40 PSI POLYISOCYANURATE BOARD: GLASS-FIBER-MAT FACED, TYPE II, CLASS 2.

GLASS-FIBER BLANKET: UNFACED.

4. GLASS-FIBER BOARD, UNFACED: 3 LB/CU. FT..

INSULATION FASTENERS.

SECTION 072600 - VAPOR RETARDERS

B. AUXILIARY INSULATING MATERIALS

A. SHEET RETARDER: POLYIMIDE FILM VAPOR RETARDER FOR USE WITH UNFACED, VAPOR PERMEABLE GLASS FIBER AND MINERAL WOOL INSULATION IN WALL AND CEILING CAVITIES.

A.A. BASIS OF DESIGN PRODUCT: CERTAINTEED - MEMBRAIN CONTINUOUS AIR BARRIER & SMART VAPOR RETARDER

b. ASTM E 86, WET CUP METHOD: 10.0 PERMS (1144NG/PA*S*M2).

 WATER VAPOR PERMEANCE: a. ASTM E 86, DRY CUP METHOD: 1.0 PERMS (57NG/PA*S*M2).

1.2 INSTALLATION

A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS

B. INSTALL IN EXTERIOR SPACES WITHOUT GAPS OR VOIDS. DO NOT COMPRESS C. TRIM INSULATION NEATLY TO FIT SPACES. INSULATE MISCELLANEOUS GAPS

D. FIT INSULATION TIGHT IN SPACES AND TIGHT TO EXTERIOR SIDE OF

MECHANICAL AND ELECTRICAL SERVICES WITHIN PLANE OF INSULATION.

E. INSTALL INSULATION WITH VAPOR BARRIER INSTALLED FACING THE WARM SIDE. SEAL OR TAPE JOINTS AS REQUIRED.

COMPLETION.

1.3 PRODUCTS

1.3 PROTECTION

A. PROTECT INSTALLED PRODUCTS UNTIL COMPLETION OF PROJECT B. TOUCH-UP, REPAIR OR REPLACE DAMAGED PRODUCTS BEFORE SUBSTANTIAL

SECTION 074600 - FIBER-CEMENT SIDING

1.1 QUALITY ASSURANCE

A. MOCKUPS FOR EACH TYPE OF SIDING.

A. FIBER-CEMENT SIDING: ASTM C 1186, TYPE A, GRADE II.

1.2 WARRANTY A. MATERIALS AND WORKMANSHIP: 30 YEARS.

1. PATTERN: PANEL AND PLANK TEXTURE: SMOOTH.

FACTORY PRIMED. 4. BASIS OF DESIGN PRODUCT: 12" HARDIE PLANK AND PANEL BY JAMES HARDIE; 231 S. LASALLE ST., SUITE 2000, CHICAGO, IL 60604; 1-888 J-HARDIE; JAMESHARDIE.COM.

B. FLASHING AND TRIMS: ALUMINUM

FINISH: ALUMINUM.

2. BASIS OF DESIGN PRODUCT: FRY REGLET CORPORATION; ALPHARETTA, GA; 800-237-9773; FRYREGLET.COM.

SECTION 075323 - ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING

A. MANUFACTURER'S MATERIALS AND WORKMANSHIP WARRANTY: 20 YEARS.

B. INSTALLER'S WARRANTY: TWO YEARS.

1.2 PERFORMANCE REQUIREMENTS

A. ROOFING SYSTEM DESIGN: 1. REFER TO STRUCTURAL DRAWINGS FOR ROOF UPLIFT PRESSURES.

A. EPDM ROOFING: NONREINFORCED, 60 MILS THICK. BASIS OF DESIGN PRODUCT: RUBBERGUARD EPDM SA AS MANUFACTURED

BY FIRESTONE BUILDING PRODUCTS OR APPROVED EQUAL.

B. SHEET FLASHING: 60-MIL- THICK EPDM. C. PROTECTION SHEET.

D. SUBSTRATE BOARD: GLASS-MAT, WATER-RESISTANT GYPSUM SUBSTRATE. E. ROOF INSULATION: POLYISOCYANURATE BOARD.

1. TAPERED INSULATION: 1/4 INCH PER 12 INCHES.

F. WALKWAYS: PADS AS SUPPLIED BY EPDM ROOFING MANUFACTURER. 1.4 INSTALLATION

A. ROOF INSULATION: ADHERED.

B. ROOFING MEMBRANE: ADHERED. C. SEAMS: TAPE.

 $\mathbf{\Omega}$

EVAN A. CARROLL

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