

GENERA	AL NOTES		DRAW
I . APPLICABLE CODES:		COVER SHEET	
2012 INTERNATIONAL EXISTING BUILDIN 2012 INTERNATIONAL BUILDING CODE	G CODE- LEVEL 2 ALTERATION	CIVIL	
2. ALL CONSTRUCTION ASSOCIATED WITH THIS F BUILDING CODES AS DICTATED AND INTERPRETED COMPLIANCE WITH THE BUILDING CODE REQUIRE CONTRACTOR.	PROJECT SHALL CONFORM TO THE ABOVE LISTED O BY THE LOCAL AUTHORITY HAVING JURISDICTION. MENTS IS THE SOLE RESPONSIBILITY OF THE GENERAL	ARCHITECTURAL	GENERAL CONDIT
3. ALL BUILDING COMPONENTS AND SYSTEMS S OFFICIAL HAVING JURISDICTION.	HALL BE INSTALLED AS DIRECTED BY THE LOCAL CODE	A1.10 A1.11	SITE PLAN FLOOR PLANS
4. THE METHOD OF CONSTRUCTION AND SEQUE THE CONTRACTOR. THE CONTRACTOR SHALL SL SHORING TO PROPERLY BRACE THE STRUCTURE BUILDING IS COMPLETED ACCORDING TO THE PL	NCE OF OPERATIONS IS THE SOLE RESPONSIBILITY OF IPPLY ANY NECESSARY BRACING, SHEETING AND AGAINST WIND, DEAD AND LIVE LOADS UNTIL THE ANS AND SPECIFICATIONS	A1.12 A1.13	FLOOR PLANS DETAILS
5. DO NOT START CONSTRUCTION UNTIL ALL REC	QUIRED PERMIT APPROVALS ARE OBTAINED.		
G. VISIT THE SITE PRIOR TO CONSTRUCTION TO AND BE FAMILIAR WITH THE DRAWINGS, DRAWING DIMENSIONS PRIOR TO ORDERING MATERIALS. BETWEEN EXISTING CONDITIONS AND THESE DOO ATTENTION OF THE ARCHITECT AND OWNER.	VERIFY EXISTING CONDITIONS. THOROUGHLY EXAMINE G NOTES AND SPECIFICATIONS. FIELD VERIFY ALL ANY AND ALL DISCREPANCIES AND CONFLICTS CUMENTS SHALL BE IMMEDIATELY BROUGHT TO THE		
7. DO NOT SCALE THE DRAWINGS FOR ANY PURI	OSE. CONTACT THE ARCHITECT IF ADDITIONAL		
8. FURNISH AND INSTALL ALL ITEMS SHOWN OR	IMPLIED ON THE DRAWINGS UNLESS OTHERWISE		
9. GENERAL CONTRACTOR IS RESPONSIBLE FOR ASSOCIATED WITH THE WORK OUTLINED IN THES CONTRACTOR SHALL BRING TO THE ATTENTION O THEY RELATE TO BUILDING TRADES AND SUB-CO	COORDINATION OF ALL BUILDING TRADES E DOCUMENTS. PRIOR TO CONSTRUCTION, GENERAL DF THE OWNER AND ARCHITECT ALL CONFLICTS AS NTRACTORS FOR RESOLUTION.		
I O. MAINTAIN THE CONSTRUCTION SITE IN A CLE	AN AND ORDERLY MANNER.		
I I . DIMENSIONS SHOWN ON THE DRAWINGS AR OTHERWISE NOTED.	E FROM FINISH FACE OF PARTITION UNLESS		
I 2. INFORMATION CONTAINED IN THESE DRAWIN MAY REQUIRE ADJUSTMENTS OR MODIFICATIONS CASES WHERE CHANGES IN DETAIL ARE NECESS/ DESIGN INTENT ONLY. PERFORM WORK, SHOWN INTENT OF THE DRAWINGS AND SPECIFICATIONS	GS IS BASED ON LIMITED FIELD MEASUREMENTS AND 5 TO CONFORM WITH EXISTING CONDITIONS. IN ARY, THESE DRAWINGS SHALL BE USED TO SHOW OR IMPLIED, THAT IS NECESSARY TO CARRY OUT THE OR IS CUSTOMARILY PERFORMED AS IF FULLY AND DRAWINGS AND SPECIFICATIONS		
I 3.ALL WORK SHALL BE COMPLETED IN ACCORD OR EQUIVALENT ADOPTED BUILDING CODE. THE THE BUILDING CODE, SHALL MAKE ANY AND ALL I THE BUILDING CODE. THE GENERAL CONTRACTO SATISFY REQUIREMENTS OUTLINED BY THE PER OPENED AS A RESULT OF THIS WORK.	ANCE WITH THE INTERNATIONAL BUILDING CODE (IBC) AUTHORITY HAVING JURISDICTION, AS DEFINED BY FINAL DETERMINATION REGARDING COMPLIANCE WITH R IS RESPONSIBLE FOR COMPLETING ALL WORK TO MITING AUTHORITY AND SHALL CLOSE ALL PERMITS		
I 4. PROTECT EXISTING BUILDING ELEMENTS TO F ACTIVITIES. PATCH AND REPAIR ALL DAMAGE RES	REMAIN FROM DEMOLITION AND CONSTRUCTION BULTING FROM CONSTRUCTION ACTIVITIES.		
I 5. FILL OPENINGS CREATED BY THE REMOVAL C EQUIVALENT TO THE ADJACENT CONSTRUCTION.	OF DUCTWORK, PIPING DEVICES, ETC. WITH MATERIAL		
I G. THE FACILITY IS SERVED BY AN AUTOMATIC SYSTEM SHALL REMAIN FULLY OPERATIONAL IN A THAT REQUIRES SHUT-DOWN OF THE SPRINKLER	BPRINKLER SYSTEM. THE AUTOMATIC SPRINKLER LL OCCUPIED AREAS AT ALL TIMES. SCHEDULE WORK SYSTEM DURING TIMES WHEN THE FACILITY IS		
SYMBOLS AND	ANNOTATIONS		MATEF
X XX.XX BUILDING ELEVATION	A NEW COLUMN GRID		
\rightarrow	EXISTING COLUMN GRID		
X XX.XX	KEYED NOTES		
BUILDING SECTION			
	(SEE PARTITION SCHEDULE)		
	NEW PARTITION MASONRY MATERIAL	4 ⁴ , , , , , , , , , , , , , , , , , , ,	CONCRETE
ENLARGED PLAN OR DETAIL	EXISTING PARTITION		
			STEEL
	(SEE DOOR SCHEDULE)		STAINLESS S
	NEW DOOR AND FRAME	* * * + * . * . *	+ + + + + + + + + + + + + + + + + + +
X (XX.XX) X INTERIOR ELEVATION	A NEW WINDOW WINDOW TYPE (SFF WINDOW SCHEDULIE)		
X			

2001 COMMERCE PARK DRIVE









|--|

	PROPERTY BOUNDR
	LIMIT OF DISTURBA
	ex. 2' contour
	EX. 10' CONTOUR
	EX. BUILDING
	EX. CURB AND GUT
	EX. CONCRETE
)	EX. STORM DRAIN
	EX. WATER
	EX. SANITARY
E	EX. ELECTRIC
G	EX. GAS
т	EX. TELEPHONE
0	EX. FIBER OPTIC

APPENDIX 21

APPENDIX 21A

SECTION 01 1 100- SUMMARY OF WORK

1.1 PROJECT DESCRIPTION

A. WORK OF THIS PROJECT INCLUDES INSTALLATION OF A 2x4 DIRECT BURRIED CONDUIT BETWEEN BUILDINGS, LOCATED AT 2011 AND 2001 COMMERCE PARK DRIVE, ANNAPOLIS, MARYLAND.

B. WORK INCLUDES GENERAL CONSTRUCTION ONLY.

C. THE PROJECT WILL BE CONSTRUCTED UNDER A SINGLE PRIME CONTRACT.

1.2 WORK SEQUENCE

A. CONSTRUCT WORK IN STAGES AS FOLLOWS TO ACCOMMODATE OWNER'S USE OF PREMISES DURING CONSTRUCTION PERIOD: I. PROTECT INTERIOR FINISHES, FURNITURE AND EQUIPMENT FROM CONSTRUCTION ACTIVITIES AT ALL TIMES. 2. INSTALL TEMPORARY CONSTRUCTION BARRIERS

3. COMPLY WITH THE INTERIM LIFE SAFETY PLANS

OWNER AND ARCHITECT.

C. SCHEDULE THE WORK TO ACCOMMODATE THIS REQUIREMENT.

1.3 OWNER OCCUPANCY

A. THE OWNER WILL OCCUPY THE SITE AND PREMISES DURING THE ENTIRE

B. COOPERATE WITH THE OWNER TO MINIMIZE CONFLICT, AND TO FACILITATE

OWNER'S OPERATIONS.

C. SCHEDULE THE WORK TO ACCOMMODATE THIS REQUIREMENT.

I.4 CONTRACTOR'S USE OF SITE AND PREMISES

A. LIMIT USE OF SITE AND PREMISES TO ALLOW FOR: I. OWNER OCCUPANCY AND USE.

B. MOVE ANY STORED PRODUCTS UNDER CONTRACTOR'S CONTROL THAT INTERFERE WITH THE OPERATIONS OF THE OWNER.

AND PUBLIC.

C. ASSUME FULL RESPONSIBILITY FOR PROTECTION AND SAFEKEEPING OF

PRODUCTS UNDER THIS CONTRACT STORED ON SITE.

NEEDED FOR OPERATIONS.

E. COORDINATE USE OF SITE AND PREMISES WITH THE OWNER: I. EMPLOYEE PARKING IS NOT PROVIDED ON SITE.

> AREA. 3. USE OF BUILDING ELEVATOR IS PERMITTED.

DAMAGE AND REPAIR RESULTING FROM CONSTRUCTION USE OF THE ELEVATOR.

CAB FINISHES

FI FVATOR

OCCUPANTS

ALL TIMES.

G. DO NOT CLOSE OR OBSTRUCT EXITS. REFER TO THE INTERIM LIFE SAFETY

PLANS FOR MORE INFORMATION.

SECURE MANNER AT ALL TIMES.

I. DO NOT USE OR STORE HAZARDOUS OR FLAMMABLE MATERIALS ON PREMISES.

J. SMOKING IS PROHIBITED IN THE BUILDING.

K. TOILET FACILITIES ARE AVAILABLE ON THE PREMISES.

SECTION 012900-PAYMENT PROCEDURES

1.1 SCHEDULE OF VALUES

A. GENERAL: I. SUBMIT A SCHEDULE OF VALUES TO ARCHITECT PRIOR TO SUBMITTING FIRST APPLICATION FOR PAYMENT. 2. UPON REQUEST OF ARCHITECT, FURNISH ADDITIONAL DATA TO SUPPORT VALUES GIVEN THAT WILL SUBSTANTIATE THEIR CORRECTNESS.

B. FORM AND CONTENT:

FORMAT. 2. USE TABLE OF CONTENTS OF PROJECT MANUAL AS BASIS OF FORMAT FOR LISTING COSTS OF WORK. SUFFICIENT DETAIL TO SERVE AS BASIS FOR COMPUTING VALUES FOR PROGRESS PAYMENTS. 4. INCLUDE SEPARATE LINE ITEMS FOR:

A. SITE MOBILIZATION. B. BONDS AND INSURANCE. C. CONTRACTOR'S OVERHEAD AND PROFIT.

D. RETAINAGE.

5. FOR ITEMS ON WHICH PAYMENT WILL BE REQUESTED FOR STORED MATERIALS, BREAK DOWN VALUE INTO: A. COST OF MATERIALS, DELIVERED AND UNLOADED. B. TOTAL INSTALLED VALUE. 6. FOR EACH LINE ITEM THAT HAS A VALUE OF MORE THAN

\$25,000.00, BREAK DOWN COSTS TO LIST MAJOR PRODUCTS OR OPERATIONS UNDER EACH ITEM.

C. SUBMIT ELECTRONICALLY IN ADOBE PDF FORMAT.

SUM.

B. COORDINATE CONSTRUCTION SCHEDULE AND OPERATIONS WITH THE

PERIOD OF CONSTRUCTION FOR CONDUCT OF NORMAL OPERATIONS.

2. USE OF SITE AND ADJACENT PREMISES BY THE OCCUPANTS

D. OBTAIN AND PAY FOR USE OF ANY ADDITIONAL STORAGE OR WORK AREAS

2. STORAGE AND STAGING AREAS LIMITED TO THE CONSTRUCTION

A. CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR

B. PROVIDE TEMPORARY PROTECTION OF ELEVATOR C. DO NOT EXCEED THE POSTED WEIGHT LIMITS OF THE

D. ELEVATOR WILL REMAIN IN USE BY LOWER LEVEL

F. BUILDING FIRE OR LIFE SAFETY SYSTEMS SHALL REMAIN OPERATIONAL AT

H. DO NOT PROP BUILDING ENTRY DOORS. MAINTAIN THE BUILDING IN A

3. APPROVED SCHEDULE OF VALUES WILL BE USED AS BASIS FOR REVIEWING CONTRACTOR'S APPLICATIONS FOR PAYMENT.

I. FORMAT: CONTRACTOR'S STANDARD ELECTRONIC MEDIA

3. LIST INSTALLED VALUE OF COMPONENT PARTS OF WORK IN

7. TOTAL OF COSTS LISTED IN SCHEDULE SHALL EQUAL CONTRACT

SECTION 012900-PAYMENT PROCEDURES

D. REVIEW AND RESUBMIT: I. AFTER INITIAL REVIEW BY ARCHITECT, REVISE AND RESUBMIT IF REQUIRED 2. REVISE AND RESUBMIT ALONG WITH NEXT APPLICATION FOR

PAYMENT WHEN A CHANGE ORDER IS ISSUED. LIST EACH CHANGE ORDER AS A NEW LINE ITEM. 1.2 APPLICATIONS FOR PAYMENT

A. PREPARATION:

I. CONTRACTOR'S STANDARD ELECTRONIC MEDIA FORMAT. 2. PREPARE REQUIRED INFORMATION IN ELECTRONIC MEDIA 3. USE DATA FROM REVIEWED SCHEDULE OF VALUES. PROVIDE DOLLAR VALUE IN EACH COLUMN FOR EACH LINE ITEM

REPRESENTING PORTION OF WORK PERFORMED. 4. LIST EACH AUTHORIZED CHANGE ORDER AS A SEPARATE LINE ITEM, LISTING CHANGE ORDER NUMBER AND DOLLAR VALUE. 5. PREPARE APPLICATION FOR FINAL PAYMENT AS SPECIFIED IN SECTION 017700.

B. WAIVERS OF LIEN: I. ALONG WITH THE EACH APPLICATION FOR PAYMENT, SUBMIT WAIVERS OF LIEN FROM CONTRACTOR AND EACH SUBCONTRACTOR OR SUB-SUBCONTRACTOR INCLUDED ON THE CURRENT MONTH'S APPLICATION FOR PAYMENT 2. SUBMIT PARTIAL WAIVERS ON EACH ITEM FOR AMOUNT

REQUESTED, PRIOR TO DEDUCTION OF RETAINAGE. 3. FOR COMPLETED ITEMS, SUBMIT FULL OR FINAL WAIVER. C. SUBSTANTIATING DATA:

> I. WHEN ARCHITECT REQUIRES SUBSTANTIATING INFORMATION, SUBMIT DATA JUSTIFYING DOLLAR AMOUNTS IN QUESTION. 2. PROVIDE ONE COPY OF DATA WITH COVER LETTER SHOWING APPLICATION NUMBER AND DATE, AND LINE ITEM NUMBER AND DESCRIPTION.

D. SUBMITTAL: I. SUBMIT ONE ELECTRONIC COPY IN ADOBE PDF FORMAT] OF EACH APPLICATION FOR PAYMENT. 2. PAYMENT PERIOD: SUBMIT AT INTERVALS STIPULATED IN OWNER/CONTRACTOR AGREEMENT.

C. SUBMIT ELECTRONICALLY IN ADOBE PDF FORMAT.

ORDER AS A NEW LINE ITEM.

D. REVIEW AND RESUBMITTAL: I. AFTER INITIAL REVIEW BY ARCHITECT, REVISE AND RESUBMIT IF REQUIRED. 2. REVISE AND RESUBMIT ALONG WITH NEXT APPLICATION FOR PAYMENT WHEN A CHANGE ORDER IS ISSUED. LIST EACH CHANGE

1.2 APPLICATIONS FOR PAYMENT

A. PREPARATION:

I. CONTRACTOR'S STANDARD ELECTRONIC MEDIA FORMAT. 2. PREPARE REQUIRED INFORMATION IN ELECTRONIC MEDIA FORMAT 3. USE DATA FROM REVIEWED SCHEDULE OF VALUES. PROVIDE DOLLAR VALUE IN EACH COLUMN FOR EACH LINE ITEM REPRESENTING PORTION OF WORK PERFORMED.

4. LIST EACH AUTHORIZED CHANGE ORDER AS A SEPARATE LINE ITEM, LISTING CHANGE ORDER NUMBER AND DOLLAR VALUE. 5. PREPARE APPLICATION FOR FINAL PAYMENT AS SPECIFIED IN

B. WAIVERS OF LIEN:

I. ALONG WITH THE EACH APPLICATION FOR PAYMENT, SUBMIT WAIVERS OF LIEN FROM CONTRACTOR AND EACH SUBCONTRACTOR OR SUB-SUBCONTRACTOR INCLUDED ON THE CURRENT MONTH'S APPLICATION FOR PAYMENT. 2. SUBMIT PARTIAL WAIVERS ON EACH ITEM FOR AMOUNT REQUESTED, PRIOR TO DEDUCTION OF RETAINAGE.

3. FOR COMPLETED ITEMS, SUBMIT FULL OR FINAL WAIVER. C. SUBSTANTIATING DATA: I. WHEN ARCHITECT REQUIRES SUBSTANTIATING INFORMATION,

> SUBMIT DATA JUSTIFYING DOLLAR AMOUNTS IN QUESTION. 2. PROVIDE ONE COPY OF DATA WITH COVER LETTER SHOWING APPLICATION NUMBER AND DATE, AND LINE ITEM NUMBER AND DESCRIPTION.

D. SUBMITTAL: I. SUBMIT ONE ELECTRONIC COPY IN ADOBE PDF FORMAT] OF EACH APPLICATION FOR PAYMENT. 2. PAYMENT PERIOD: SUBMIT AT INTERVALS STIPULATED IN OWNER/CONTRACTOR AGREEMENT.

SECTION 013300- SUBMITTAL PROCEDURES

1.1 SUBMITTAL PROCEDURES

A. NUMBER EACH SUBMITTAL WITH PROJECT MANUAL SECTION NUMBER AND A SEQUENTIAL NUMBER WITHIN EACH SECTION. NUMBER RESUBMITTALS WITH ORIGINAL NUMBER AND AN ALPHABETIC SUFFIX.

B. IDENTIFY PROJECT, CONTRACTOR, SUBCONTRACTOR OR SUPPLIER, PERTINENT DRAWING SHEET AND DETAIL NUMBERS, AND SPECIFICATION SECTION NUMBER, AS APPROPRIATE.

C. SUBMIT ALL SUBMITTALS LISTED UNDER "SUBMITTALS FOR REVIEW" PRIOR TO BEGINNING WORK.

D. ALL OTHER SUBMITTALS SHALL BE PROVIDED AS NEEDED PRIOR TO BEGINNING OF SPECIFIC TRADE WORK.

E. ARCHITECT WILL NOT REVIEW INCOMPLETE SUBMITTALS.

F. APPLY CONTRACTOR'S STAMP, SIGNED OR INITIALED CERTIFYING THAT: I. SUBMITTAL WAS REVIEWED. 2. PRODUCTS, FIELD DIMENSIONS, AND ADJACENT CONSTRUCTION HAVE BEEN VERIFIED.

3. INFORMATION HAS BEEN COORDINATED WITH REQUIREMENTS OF WORK AND CONTRACT DOCUMENTS.

G. SCHEDULE SUBMITTALS TO EXPEDITE THE PROJECT, AND DELIVER TO ARCHITECT. COORDINATE SUBMITTAL OF RELATED ITEMS.

H. PROVIDE SUBMITTALS IN DIGITAL FORMAT VIA EMAIL OR ARCHITECT'S SHARED DROPBOX FOLDER.

I. FOR EACH SUBMITTAL, ALLOW 14 DAYS FOR ARCHITECT'S REVIEW.

SECTION 013300- CONT'D

J. SUBMITTALS WILL BE RETURNED ELECTRONICALLY VIA EMAIL OR ARCHITECT'S SHARED DROPBOX FOLDER.

K. IDENTIFY VARIATIONS FROM CONTRACT DOCUMENTS AND PRODUCT OR SYSTEM LIMITATIONS THAT MAY BE DETRIMENTAL TO SUCCESSFUL PERFORMANCE OF COMPLETED WORK.

L. REVISE AND RESUBMIT SUBMITTALS WHEN REQUIRED; IDENTIFY ALL CHANGES MADE SINCE PREVIOUS SUBMITTAL.

M. DISTRIBUTE COPIES OF REVIEWED SUBMITTALS TO CONCERNED PARTIES AND TO PROJECT RECORD DOCUMENTS FILE. INSTRUCT PARTIES TO PROMPTLY REPORT ANY INABILITY TO COMPLY WITH PROVISIONS.

I.2 SUBMITTAL SCHEDULE

A. WITHIN 15 DAYS AFTER DATE OF NOTICE TO PROCEED, SUBMIT ALL SUBMITTALS PROPOSED FOR PROJECT, INCLUDING SUBMITTALS LISTED AS:

> I. SUBMITTALS FOR REVIEW. 2. QUALITY CONTROL SUBMITTALS.

3. SHOP DRAWINGS 4. SAMPLES

5. PRODUCT DATA

6. QUALITY CONTROL 7. CLOSEOUT SUBMITTALS.

B. INCLUDE FOR EACH SUBMITTAL:

I. SPECIFICATION SECTION NUMBER. 2. DESCRIPTION OF SUBMITTAL. 3. TYPE OF SUBMITTAL.

C. ALL SUBMITTALS SHALL BE ELECTRONICALLY IN ADOBE PDF FORMAT.

I.3 QUALITY CONTROL SUBMITTALS

A. QUALITY CONTROL SUBMITTALS SPECIFIED IN SECTION OI 4000 ARE FOR INFORMATION AND DO NOT REQUIRE ARCHITECT'S RESPONSIVE ACTION EXCEPT TO REQUIRE RESUBMISSION OF INCOMPLETE OR INCORRECT INFORMATION.

SECTION 014000-QUALITY REQUIREMENTS

1.1 REFERENCES

A. FOR PRODUCTS OR WORKMANSHIP SPECIFIED BY REFERENCE TO ASSOCIATION, TRADE, OR INDUSTRY STANDARDS, COMPLY WITH REQUIREMENTS OF THE STANDARD, EXCEPT WHEN MORE RIGID REQUIREMENTS ARE SPECIFIED OR ARE REQUIRED BY APPLICABLE CODES.

B. SHOULD SPECIFIED REFERENCE STANDARDS CONFLICT WITH CONTRACT DOCUMENTS, REQUEST CLARIFICATION FROM ARCHITECT BEFORE PROCEEDING.

C. CONFORM TO EDITION OF REFERENCE STANDARD IN EFFECT AS OF DATE OF PROJECT MANUAL.

D. THE CONTRACTUAL RELATIONSHIP OF THE PARTIES TO THE CONTRACT SHALL NOT BE ALTERED FROM THE CONTRACT DOCUMENTS BY MENTION OR INFERENCE OTHERWISE IN ANY REFERENCE DOCUMENT.

I.2 QUALITY ASSURANCE AND CONTROL OF INSTALLATION

A. MONITOR QUALITY CONTROL OVER SUPPLIERS, MANUFACTURERS, PRODUCTS, SERVICES, SITE CONDITIONS, AND WORKMANSHIP, TO PRODUCE WORK OF SPECIFIED QUALITY.

B. COMPLY FULLY WITH MANUFACTURERS' INSTRUCTIONS, INCLUDING EACH STEP IN SEQUENCE.

C. SHOULD MANUFACTURERS' INSTRUCTIONS CONFLICT WITH CONTRACT DOCUMENTS, REQUEST CLARIFICATION FROM ARCHITECT BEFORE PROCEEDING.

D. COMPLY WITH SPECIFIED STANDARDS AS A MINIMUM QUALITY FOR THE WORK EXCEPT WHEN MORE STRINGENT TOLERANCES, CODES, OR SPECIFIED REQUIREMENTS INDICATE HIGHER STANDARDS OR MORE PRECISE WORKMANSHIP.

E. PERFORM WORK BY PERSONS QUALIFIED TO PRODUCE WORKMANSHIP OF SPECIFIED QUALITY.

F. SECURE PRODUCTS IN PLACE WITH POSITIVE ANCHORAGE DEVICES DESIGNED AND SIZED TO WITHSTAND STRESSES, VIBRATION, PHYSICAL DISTORTION OR DISFIGUREMENT.

I.3 MANUFACTURERS' FIELD SERVICES AND REPORTS

I.4 DESIGN DATA AND CALCULATIONS

DATA AND CALCULATIONS.

THE CONTRACTOR.

A. WHEN SPECIFIED IN INDIVIDUAL SPECIFICATION SECTIONS, REQUIRE MATERIAL OR PRODUCT SUPPLIERS OR MANUFACTURERS TO PROVIDE QUALIFIED STAFF PERSONNEL TO OBSERVE SITE CONDITIONS, CONDITIONS OF SURFACES AND INSTALLATION, QUALITY OF WORKMANSHIP, OR STARTUP OF EQUIPMENT, AS APPLICABLE, AND TO INITIATE INSTRUCTIONS WHEN NECESSARY.

B. INDIVIDUALS TO REPORT OBSERVATIONS AND SITE DECISIONS OR INSTRUCTIONS GIVEN TO APPLICATORS OR INSTALLERS THAT ARE SUPPLEMENTAL OR CONTRARY TO MANUFACTURERS' WRITTEN INSTRUCTIONS.

C. SUBMIT REPORT TO ARCHITECT WITHIN 5 DAYS OF OBSERVATION.

A. WHEN SPECIFIED IN INDIVIDUAL SPECIFICATION SECTIONS, REQUIRE

MATERIAL OR PRODUCT SUPPLIERS OR MANUFACTURERS TO PROVIDE DESIGN

B. ACCURACY OF DESIGN DATA AND CALCULATIONS IS THE RESPONSIBILITY OF

C. WHEN SO SPECIFIED, PREPARE DESIGN DATA AND CALCULATIONS UNDER THE

DIRECTION OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH

THE PROJECT IS LOCATED. AFFIX ENGINEER'S SEAL TO SUBMITTALS.

A. WHEN SPECIFIED IN INDIVIDUAL SPECIFICATION SECTIONS, REQUIRE

B. INDICATE THAT MATERIAL OR PRODUCT CONFORMS TO OR EXCEEDS

MATERIAL OR PRODUCT SUPPLIERS OR MANUFACTURERS TO PROVIDE TEST

SPECIFIED REQUIREMENTS. SUBMIT SUPPORTING REFERENCE DATA, AFFIDAVITS,

C. SUBMITTALS MAY BE RECENT OR PREVIOUS TEST RESULTS ON MATERIAL OR

D. SUBMIT ELECTRONICALLY IN ADOBE PDF FORMAT.

REPORTS AND MANUFACTURERS' CERTIFICATIONS.

PRODUCT, BUT MUST BE ACCEPTABLE TO ARCHITECT.

1.5 TEST REPORTS AND CERTIFICATIONS

AND CERTIFICATIONS AS APPROPRIATE.

D. SUBMIT ELECTRONICALLY IN ADOBE PDF FORMAT.

SECTION 014000- CONT'D

APPLICABLE.

DOCUMENTS.

1.1 PREPARATION

AWAIT INSTRUCTIONS.

D. PROVIDE PROTECTION FROM ELEMENTS.

I.2 CUTTING AND PATCHING

WORK REQUIRED TO:

WORK.

CONDUIT

PATCHING FOR:

1.1 GENERAL

FOLLOWING ORDER:

1.2 MANAGEMENT

AND WEATHER.

AND REUSE.

RETURN.

ALL TIMES.

CREDIT(S) TO OWNER.

CONTRACT DOCUMENTS.

DATA.

I.G MANUFACTURER'S INSTALLATION INSTRUCTIONS

A. WHEN CONTRACT DOCUMENTS REQUIRE THAT PRODUCTS BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS: I. SUBMIT MANUFACTURER'S MOST RECENT PRINTED

> INSTRUCTIONS FOR DELIVERY, STORAGE, ASSEMBLY, INSTALLATION, START-UP, ADJUSTING, AND FINISHING, AS A. SUBMIT IN QUANTITIES SPECIFIED FOR PRODUCT

> B. INDICATE SPECIAL PROCEDURES, PERIMETER CONDITIONS REQUIRING SPECIAL ATTENTION, AND SPECIAL ENVIRONMENTAL CRITERIA REQUIRED FOR APPLICATION OR INSTALLATION. C. IDENTIFY CONFLICTS BETWEEN MANUFACTURERS' INSTRUCTIONS AND REQUIREMENTS OF CONTRACT

2. PERFORM INSTALLATION OF PRODUCTS TO COMPLY WITH REQUIREMENTS OF MANUFACTURER'S INSTRUCTIONS. 3. IF INSTALLATION CANNOT BE PERFORMED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, NOTIFY ARCHITECT AND

4. SUBMIT ELECTRONICALLY IN ADOBE PDF FORMAT.

SECTION 017329-CUTTING AND PATCHING

A. EXAMINE EXISTING CONDITIONS OF WORK, INCLUDING ELEMENTS SUBJECT TO MOVEMENT OR DAMAGE DURING CUTTING AND PATCHING. B. AFTER UNCOVERING WORK, EXAMINE CONDITIONS AFFECTING INSTALLATION OF NEW PRODUCTS OR PERFORMANCE OF WORK.

C. PROVIDE PROTECTION FOR OTHER PORTIONS OF PROJECT.

A. EXECUTE CUTTING TO INCLUDE EXCAVATING, FITTING, AND PATCHING OF

I . MAKE SEVERAL PARTS FIT PROPERLY. 2. UNCOVER WORK TO PROVIDE FOR INSTALLATION OF ILL TIMED 3. REMOVE AND REPLACE DEFECTIVE WORK. 4. REMOVE AND REPLACE WORK NOT CONFORMING TO

REQUIREMENTS OF CONTRACT DOCUMENTS. 5. PROVIDE ROUTINE PENETRATIONS OF NONSTRUCTURAL SURFACES FOR INSTALLATION OF PIPING AND ELECTRICAL

B. EXECUTE FITTING AND ADJUSTMENT OF PRODUCTS TO PROVIDE FINISHED INSTALLATION TO COMPLY WITH SPECIFIED TOLERANCES, AND FINISHES.

C. EXECUTE CUTTING AND DEMOLITION BY METHODS THAT WILL PREVENT DAMAGE TO OTHER WORK, AND WILL PROVIDE PROPER SURFACES TO RECEIVE INSTALLATION OF REPAIRS AND NEW WORK.

D. EXECUTE EXCAVATING AND BACKFILLING BY METHODS THAT WILL PREVENT DAMAGE TO OTHER WORK, AND WILL PREVENT SETTLEMENT.

E. EMPLOY ORIGINAL INSTALLER OR FABRICATOR TO PERFORM CUTTING AND I. WEATHER EXPOSED OR MOISTURE RESISTANT ELEMENTS.

2. SIGHT EXPOSED FINISHED SURFACES. F. RESTORE WORK THAT HAS BEEN CUT OR REMOVED; INSTALL NEW PRODUCTS

G. REFINISH ENTIRE SURFACES AS NECESSARY TO PROVIDE AN EVEN FINISH: I. CONTINUOUS SURFACES: TO NEAREST INTERSECTIONS.

SECTION 017419- CONSTRUCTION WASTE

TO PROVIDE COMPLETED WORK IN ACCORDANCE WITH REQUIREMENTS OF

2. ASSEMBLY: REFINISH ENTIRELY.

ECONOMIC BENEFIT AT LANDFILL.

A. REUSE OR RECYCLE NON-HAZARDOUS WASTE MATERIALS.

B. MINIMIZE WASTE SENT TO LANDFILLS AND INCINERATORS.

C. PRIORITIZE NON-HAZARDOUS CONSTRUCTION WASTE MANAGEMENT IN

I. REDUCE AMOUNT OF WASTE GENERATED. 2. RECYCLE MATERIAL INCLUDING DIVERTING MATERIALS FOR SECONDARY USES WHENEVER ECONOMICALLY FEASIBLE. 3. DISPOSE OF MATERIALS WITH NO PRACTICAL USE OR

A. SECURE STOCKPILED CONSTRUCTION WASTE TO PREVENT VANDALIZATION AND SCAVENGING. PROTECT STOCKPILED WASTE FROM THE EFFECTS OF WIND

B. USE ALL REASONABLE MEANS TO DIVERT CONSTRUCTION AND DEMOLITION WASTE FROM LANDFILLS AND INCINERATORS, AND TO FACILITATE RECYCLING

C. RETURN UNUSED PRODUCTS AND OVERAGES TO SUPPLIER AND RETURN

D. SEPARATE MATERIALS FOR POTENTIAL RECYCLING, SALVAGE, REUSE AND

E. PROVIDE SEPARATE RECEPTACLES FOR RECYCLABLE MATERIALS. WHERE CO-MINGLED RECYCLABLES ARE NOT PERMITTED, PROVIDE SEPARATE RECEPTACLES AS REQUIRED BY THE LOCAL WASTE COLLECTOR.

F. KEEP STORAGE AREAS AND RECEPTACLES CLEAN ORDERLY AND SECURE AT

G. REMOVE ALL WASTE FROM WORK AREAS AT THE END OF EACH WORK SHIFT.

SECTION 017419-CONTD

I.3 DISPOSAL

A. DISPOSE OF NON-HAZARDOUS WASTE MATERIALS THAT CANNOT BE REUSED, RECYCLED, OR SALVAGED AT LICENSED LANDFILL OR INCINERATOR.

B. HANDLE, STORE, AND DISPOSE OF HAZARDOUS WASTES IN ACCORDANCE WITH APPLICABLE CODES, ORDINANCES, RULES, AND REGULATIONS.

SECTION 017700- CLOSEOUT PROCEDURES

1.1 CLOSEOUT PROCEDURES

A. SUBMIT WRITTEN CERTIFICATION THAT CONTRACT DOCUMENTS HAVE BEEN REVIEWED, WORK HAS BEEN INSPECTED, AND THAT WORK IS COMPLETE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND READY FOR ARCHITECT'S INSPECTION.

B. IF ARCHITECT PERFORMS RE-INSPECTION DUE TO FAILURE OF WORK TO COMPLY WITH CLAIMS OF STATUS OF COMPLETION MADE BY CONTRACTOR, OWNER WILL COMPENSATE ARCHITECT FOR SUCH ADDITIONAL SERVICES AND WILL DEDUCT THE AMOUNT OF SUCH COMPENSATION FROM FINAL PAYMENT TO CONTRACTOR.

C. SUBMIT FINAL APPLICATION FOR PAYMENT SHOWING ORIGINAL CONTRACT SUM, ADJUSTMENTS, PREVIOUS PAYMENTS, RETAINAGE WITHHELD FROM PREVIOUS PAYMENTS, AND SUM REMAINING DUE.

D. CLOSEOUT SUBMITTALS: I. NOTICE OF COMPLETED FINAL INSPECTIONS BY THE LOCAL

- AUTHORITY. 2. ALL BUILDING PERMITS SHALL BE CLOSED.
- 3. CERTIFICATE OF OCCUPANCY. 4. OPERATION AND MAINTENANCE DATA.
- 5. WARRANTIES.
- 6. EVIDENCE OF PAYMENT OF SUBCONTRACTORS AND SUPPLIERS. 7. FINAL LIEN WAIVER. 8. CERTIFICATE OF INSURANCE FOR PRODUCTS AND COMPLETED

D. NO FINAL PAYMENT WILL BE MADE UNTIL ALL CLOSEOUT SUBMITTALS ARE COMPLETED TO THE SATISFACTION OF THE ARCHITECT AND OWNER.

1.2 FINAL CLEANING

A. EXECUTE FINAL CLEANING PRIOR TO FINAL INSPECTION.

B. CLEAN SURFACES EXPOSED TO VIEW:

OPERATIONS.

- C. CLEAN ALL AREAS WITHIN UNITS AFFECTED BY THE WORK.
- D. VACUUM AND MOP HARD SURFACE FLOORING.

E. CLEAN SITE; SWEEP PAVED AREAS, RAKE CLEAN LANDSCAPED SURFACES.

F. REMOVE WASTE AND SURPLUS MATERIALS, RUBBISH, AND CONSTRUCTION FACILITIES FROM THE SITE.

G. REMOVE ALL PROTECTIVE COVERINGS AND FILMS FROM THE WORK.

I.4 OPERATION AND MAINTENANCE DATA

A. IDENTIFY AS "OPERATION AND MAINTENANCE INSTRUCTIONS" AND TITLE OF PROJECT.

B. CONTENTS:

I. DIRECTORY: LIST NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF ARCHITECT, CONTRACTOR, SUBCONTRACTORS, AND MAJOR EQUIPMENT SUPPLIERS.

A. SIGNIFICANT DESIGN CRITERIA.

I. MANUFACTURER CERTIFICATES INDICATING COMPLIANCE WITH ALL INSTALLATION REQUIREMENTS 2. MANUFACTURER INSPECTION REPORTS INDICATING COMPLIANCE WITH ALL INSTALLATION REQUIREMENTS.

C. PARTS LIST FOR EACH COMPONENT.

D. BROCHURE AND DRAWING DATA FOR ALL MATERIALS, COMPONENTS AND ASSEMBLIES.

E. MAINTENANCE INSTRUCTIONS FOR EQUIPMENT AND SYSTEMS.

F. MAINTENANCE INSTRUCTIONS FOR SPECIAL FINISHES, INCLUDING RECOMMENDED CLEANING METHODS AND MATERIALS AND SPECIAL PRECAUTIONS IDENTIFYING DETRIMENTAL AGENTS.

G. COPIES OF EXECUTED WARRANTIES AND BONDS.

H. INSTRUCTIONS FOR REQUEST OF WARRANTY SERVICE: I. NAME AND CONTACT INFORMATION FOR THE INSTALLER SERVICE AGENT. 2. NAME AND CONTACT INFORMATION FOR THE MANUFACTURER SERVICE AGENT.

I. SUBMITTAL: . SUBMIT ONE COPY IN A SINGLE THREE RING BINDER. 2. SUBMIT ELECTRONICALLY IN ADOBE PDF FORMAT. 3. ARCHITECT WILL NOTIFY CONTRACTOR OF ANY REQUIRED REVISIONS AFTER FINAL INSPECTION. 4. REVISE CONTENT OF DOCUMENTS AS REQUIRED PRIOR TO FINAL SUBMITTAL.

1.5 WARRANTIES

A. EXECUTE AND ASSEMBLE DOCUMENTS FROM SUBCONTRACTORS, SUPPLIERS, AND MANUFACTURERS.

B. INCLUDE TABLE OF CONTENTS.

C. SUBMIT ELECTRONICALLY IN ADOBE PDF FORMAT ALONG WITH FINAL APPLICATION FOR PAYMENT.

D. FOR ITEMS OF WORK DELAYED BEYOND DATE OF SUBSTANTIAL COMPLETION, PROVIDE UPDATED SUBMITTAL WITHIN 10 DAYS AFTER ACCEPTANCE, LISTING DATE OF ACCEPTANCE AS START OF WARRANTY PERIOD.

E. ALL LABOR AND NEW MATERIALS SHALL BE WARRANTED FOR A PERIOD NO LESS THAN 2 YEARS FROM SUBSTANTIAL COMPLETION.

F. ALL EXISTING MATERIALS RE-USED IN THE NEW WORK SHALL BE WARRANTED FOR LABOR ONLY.



SECTION 260000- GENERAL CONDITIONS FOR ELECTRICAL WORK

1.1 RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION OI SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

I.2 SUMMARY

A. SECTION INCLUDES:

I. METAL CONDUITS, TUBING, AND FITTINGS. 2. BOXES, ENCLOSURES, AND CABINETS. 3. HANDHOLES AND BOXES FOR EXTERIOR UNDERGROUND CABLING. 4. HANGERS AND SUPPORTS FOR ELECTRICAL EQUIPMENT AND SYSTEMS.

B. RELATED REQUIREMENTS: COMPLY WITH NFPA 70.

1.3 DEFINITIONS

A. EMT: ELECTRICAL METALLIC TUBING CONDUIT. B. RNC: RIGID NON-METALLIC CONDUIT.

I .4 ACTION SUBMITTALS

A.PRODUCT DATA: FOR SURFACE RACEWAYS, WIREWAYS AND FITTINGS, FLOOR BOXES, HINGED-COVER ENCLOSURES, AND CABINETS.

2.1 METAL CONDUITS, TUBING, AND FITTINGS

A. LISTING AND LABELING: METAL CONDUITS, TUBING, AND FITTINGS SHALL BE LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

B. EMT; CONDUIT, ELBOWS, AND NIPPLES: COMPLY WITH ANSI C80.3 AND UL 797

MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING: I. ALLIED TUBE AND CONDUIT.

2. REPUBLIC CONDUIT.

3. WESTERN TUBE AND CONDUIT

4. WHEATLAND TUBE

C. FITTINGS FOR METAL CONDUIT: COMPLY WITH NEMA FB | AND UL 514B. I . MATERIAL: STEEL. 2. TYPE: SETSCREW.

2.2 NONMETALLIC CONDUITS, TUBING, AND FITTINGS

A. LISTING AND LABELING: NONMETALLIC CONDUITS, TUBING, AND FITTINGS SHALL BE LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

B. RNC; CONDUIT, ELBOWS, AND COUPLINGS: MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

I. CANTEX INC. 2. JM EAGLE 3. THOMAS ≰ BETTS CORPORATION.

2.3 PULL BOXES, ENCLOSURES, AND CABINETS

A. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

I. EATON CORPORATIO 2. HUBBELL INCORPORATED. 3. THOMAS ≰ BETTS CORPORATION.

B. GENERAL REQUIREMENTS FOR BOXES, ENCLOSURES, AND CABINETS: BOXES, ENCLOSURES, AND CABINETS INSTALLED IN WET LOCATIONS SHALL BE LISTED FOR USE IN WET LOCATIONS.

C. SHEET METAL PULL BOXES: NEMA OS 1.

2.4 HANDHOLES AND BOXES FOR EXTERIOR UNDERGROUND WIRING

- A. GENERAL REQUIREMENTS FOR HANDHOLES AND BOXES: I. BOXES AND HANDHOLES FOR USE IN UNDERGROUND SYSTEMS SHALL BE DESIGNED AND IDENTIFIED AS DEFINED IN NFPA 70, FOR INTENDED LOCATION AND APPLICATION.
- 2. BOXES INSTALLED IN WET AREAS SHALL BE LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

B. FIBERGLASS HANDHOLES AND BOXES: MOLDED OF FIBERGLASS-REINFORCED POLYESTER RESIN, WITH FRAME AND COVERS OF FIBERGLASS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

- I. ARMORCAST PRODUCTS COMPANY. 2. CARSON INDUSTRIES LLC.
- 3. OLDCASTLE PRECAST, INC.
- C. STANDARD: COMPLY WITH SCTE 77.

I. COLOR OF FRAME AND COVER: GREEN. 2. CONFIGURATION: DESIGNED FOR FLUSH BURIAL WITH OPEN BOTTOM UNLESS OTHERWISE INDICATED. 3. COVER: WEATHERPROOF, SECURED BY TAMPER-RESISTANT LOCKING DEVICES AND HAVING STRUCTURAL LOAD RATING CONSISTENT WITH ENCLOSURE AND HANDHOLE LOCATION. 4. COVER FINISH: NONSKID FINISH SHALL HAVE A MINIMUM COEFFICIENT OF FRICTION OF 0.50.

5. CONDUIT ENTRANCE PROVISIONS: CONDUIT-TERMINATING FITTINGS SHALL MATE WITH ENTERING DUCTS FOR SECURE, FIXED INSTALLATION IN ENCLOSURE WALL.

2.5 SUPPORT, ANCHORAGE, AND ATTACHMENT COMPONENTS

A. STEEL SLOTTED SUPPORT SYSTEMS: COMPLY WITH MFMA-4, FACTORY-FABRICATED COMPONENTS FOR FIELD ASSEMBLY.

I. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE A COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:

- a.THOMAS & BETTS CORPORATION b.ALLIED TUBE ≰ CONDUIT.
- c.COOPER B-LINE, INC.; A DIVISION OF COOPER
- INDUSTRIES. d.UNISTRUT; AN ATKORE INTERNATIONAL COMPANY.

2. METALLIC COATINGS: HOT-DIP GALVANIZED AFTER FABRICATION AND APPLIED ACCORDING TO MFMA-4.

SECTION 260000- CONT'D

B. RACEWAY AND CABLE SUPPORTS: AS DESCRIBED IN NECA | AND N C. CONDUIT AND CABLE SUPPORT DEVICES: STEEL HANGERS, CLAMPS

ASSOCIATED FITTINGS, DESIGNED FOR TYPES AND SIZES OF RACEWAY TO BE SUPPORTED.

D. SUPPORT FOR CONDUCTORS IN VERTICAL CONDUIT: FACTORY-FABR ASSEMBLY CONSISTING OF THREADED BODY AND INSULATING WEDGIN PLUGS FOR NON-ARMORED ELECTRICAL CONDUCTORS OR CABLES IN CONDUITS. PLUGS SHALL HAVE NUMBER. SIZE, AND SHAPE OF CONDU

GRIPPING PIECES AS REQUIRED TO SUIT INDIVIDUAL CONDUCTORS OR SUPPORTED. BODY SHALL BE MALLEABLE IRON.

E. STRUCTURAL STEEL FOR FABRICATED SUPPORTS AND RESTRAINTS: 36/A 36M, STEEL PLATES, SHAPES, AND BARS; BLACK AND GALVANIZ

F. MOUNTING, ANCHORING, AND ATTACHMENT COMPONENTS: ITEMS F FASTENING ELECTRICAL ITEMS OR THEIR SUPPORTS TO BUILDING SUR

INCLUDE THE FOLLOWING:

- I. POWDER-ACTUATED FASTENERS: THREADED-STEEL STU IN HARDENED PORTLAND CEMENT CONCRETE, STEEL, OR V
- TENSION, SHEAR, AND PULLOUT CAPACITIES APPROPRIATE SUPPORTED LOADS AND BUILDING MATERIALS WHERE USE
- 2. MECHANICAL-EXPANSION ANCHORS: INSERT-WEDGE-TY COATED STEEL, FOR USE IN HARDENED PORTLAND CEMEN
- WITH TENSION, SHEAR, AND PULLOUT CAPACITIES APPROP SUPPORTED LOADS AND BUILDING MATERIALS IN WHICH U
- 3. CLAMPS FOR ATTACHMENT TO STEEL STRUCTURAL ELEM SUITABLE FOR ATTACHED STRUCTURAL ELEMENT. 4. THROUGH BOLTS: STRUCTURAL TYPE, HEX HEAD, AND I
- STRENGTH. COMPLY WITH ASTM A 325.

5. TOGGLE BOLTS: ALL-STEEL SPRINGHEAD TYPE. 6. HANGER RODS: THREADED STEEL.

3.1 RACEWAY APPLICATION

A. OUTDOORS: APPLY RACEWAY PRODUCTS AS SPECIFIED BELOW UNL OTHERWISE INDICATED:

- I. EXPOSED CONDUIT: RNC, TYPE EPC-40-PVC 2. UNDERGROUND CONDUIT: TYPE EPC-40-PVC
- B. INDOORS: APPLY RACEWAY PRODUCTS AS SPECIFIED BELOW UNLES
 - OTHERWISE INDICATED: I . EXPOSED, NOT SUBJECT TO PHYSICAL DAMAGE: EMT
 - 2. CONCEALED IN CEILINGS AND INTERIOR WALLS AND PART EMT

3. BOXES AND ENCLOSURES: NEMA 250, TYPE 1

C. RACEWAY FITTINGS: COMPATIBLE WITH RACEWAYS AND SUITABLE F LOCATION. I. EMT: USE SETSCREW FITTINGS. COMPLY WITH NEMA FE

3.2 INSTALLATION

A. COMPLY WITH NECA I AND NECA IOI FOR INSTALLATION REQUIR WHERE REQUIREMENTS ON DRAWINGS OR IN THIS ARTICLE ARE STRICT WITH NECA 102 FOR ALUMINUM CONDUITS. COMPLY WITH NFPA 70 FOR TYPES OF RACEWAYS ALLOWED IN SPECIFIC OCCUPANCIES AND N FLOORS.

B. KEEP RACEWAYS AT LEAST 6 INCHES (150 MM) AWAY FROM PARA FLUES AND STEAM OR HOT-WATER PIPES. INSTALL HORIZONTAL RACE ABOVE WATER AND STEAM PIPING.

C. COMPLETE RACEWAY INSTALLATION BEFORE STARTING CONDUCTOR INSTALLATION.

D. MAXIMUM SUPPORT SPACING AND MINIMUM HANGER ROD SIZE FO SPACE SUPPORTS FOR EMT, IMC, AND RMC AS SCHEDULED IN NECA TABLE I LISTS MAXIMUM SPACINGS LESS THAN STATED IN NFPA 70. ROD SIZE SHALL BE 3/8 INCH IN DIAMETER.

E. MULTIPLE RACEWAYS OR CABLES: INSTALL TRAPEZE-TYPE SUPPORTS FABRICATED WITH STEEL SLOTTED SUPPORT SYSTEM, SIZED SO CAPA INCREASED BY AT LEAST 25 PERCENT IN FUTURE WITHOUT EXCEEDING DESIGN LOAD LIMITS.

I. SECURE RACEWAYS AND CABLES TO THESE SUPPORTS BOLT CONDUIT CLAMPS, SINGLE-BOLT CONDUIT CLAMPS

BOLT CONDUIT CLAMPS USING SPRING FRICTION ACTION F RETENTION IN SUPPORT CHANNEL.

F.ARRANGE STUB-UPS SO CURVED PORTIONS OF BENDS ARE NOT VIS FINISHED SLAB.

G.INSTALL NO MORE THAN THE EQUIVALENT OF THREE 90-DEGREE BE CONDUIT RUN EXCEPT FOR CONTROL WIRING CONDUITS, FOR WHICH ARE ALLOWED. SUPPORT WITHIN 12 INCHES OF CHANGES IN DIRECTION

H.SUPPORT CONDUIT WITHIN 12 INCHES OF ENCLOSURES TO WHICH

I.RACEWAY TERMINATIONS AT LOCATIONS SUBJECT TO MOISTURE OR USE INSULATING BUSHINGS TO PROTECT CONDUCTORS INCLUDING C SMALLER THAN NO. 4 AWG.

J.INSTALL RACEWAYS SQUARE TO THE ENCLOSURE AND TERMINATE AT WITH LOCKNUTS. INSTALL LOCKNUTS HAND TIGHT PLUS 1/4 TURN MOR

K.DO NOT RELY ON LOCKNUTS TO PENETRATE NONCONDUCTIVE COATI ENCLOSURES. REMOVE COATINGS IN THE LOCKNUT AREA PRIOR TO A CONDUIT TO ENCLOSURE TO ASSURE A CONTINUOUS GROUND PATH.

L.CUT CONDUIT PERPENDICULAR TO THE LENGTH. FOR CONDUITS 2-IN SIZE AND LARGER, USE ROLL CUTTER OR A GUIDE TO MAKE CUT STRAID PERPENDICULAR TO THE LENGTH.

M.INSTALL PULL WIRES IN EMPTY RACEWAYS. USE POLYPROPYLENE OR MONOFILAMENT PLASTIC LINE WITH NOT LESS THAN 200-LB TENSILE STRENGTH. LEAVE AT LEAST 12 INCHES OF SLACK AT EACH END OF PULL WIRE. CAP UNDERGROUND RACEWAYS DESIGNATED AS SPARE ABOVE GRADE ALONGSIDE RACEWAYS IN USE.

N.FASTEN JUNCTION AND PULL BOXES TO OR SUPPORT FROM BUILDING STRUCTURE. DO NOT SUPPORT BOXES BY CONDUITS.

	SECTION 260000- CONT'D	DESIGN
NECA IOI.	3.3 INSTALLATION OF UNDERGROUND CONDUIT	
25, AND AY OR CABLE	A. DIRECT-BURIED CONDUIT: I. EXCAVATE TRENCH BOTTOM TO PROVIDE FIRM AND UNIFORM SUPPORT FOR CONDUIT. PREPARE TRENCH BOTTOM	Oella Design
BRICATED ING PLUG OR N RISER DUCTOR NR CABLES	2. INSTALL BACKFILL AS INDICATED 3. AFTER INSTALLING CONDUIT, BACKFILL AND COMPACT. START ATTIE- IN POINT, AND WORK TOWARD END OF CONDUIT RUN, LEAVING CONDUIT AT END OF RUN FREE TO MOVE WITH EXPANSION AND CONTRACTION AS TEMPERATURE CHANGES DURING THIS PROCESS. FIRMLY HAND TAMP BACKFILL AROUND CONDUIT TO PROVIDE MAXIMUM SUPPORTING STRENGTH. AFTER PLACING CONTROLLED BACKFILL TO WITHIN 1 2 INCHES (300 MM) OF	728 Marianne Lane Catonsville, Maryland 21228 301.466.1884
9: ASTM A IIZED.	FINISHED GRADE, MAKE FINAL CONDUIT CONNECTION AT END OF RUN AND COMPLETE BACKFILLING WITH NORMAL COMPACTION. 4. INSTALL MANUFACTURED DUCT ELBOWS FOR STUB-UPS AT POLES AND FOLUPMENT AND AT BUILDING ENTRANCES THROUGH FLOOR	
FOR RFACES	UNLESS OTHERWISE INDICATED. ENCASE ELBOWS FOR STUB-UP DUCTS THROUGHOUT LENGTH OF ELBOW.	
JD, FOR USE WOOD, WITH E FOR ED. 'PE, ZINC-	3.4 INSTALLATION OF UNDERGROUND HANDHOLES AND BOXES A. INSTALL HANDHOLES AND BOXES LEVEL AND PLUMB AND WITH ORIENTATION AND DEPTH COORDINATED WITH CONNECTING CONDUITS TO MINIMIZE BENDS AND DEFLECTIONS REQUIRED FOR PROPER ENTRANCES.	
IT CONCRETE PRIATE FOR JSED. MENTS: TYPE	B. UNLESS OTHERWISE INDICATED, SUPPORT UNITS ON A LEVEL BED OF CRUSHED STONE OR GRAVEL, GRADED FROM 1/2-INCH (12.5-MM) SIEVE TO NO. 4 (4.75- MM) SIEVE AND COMPACTED TO SAME DENSITY AS ADJACENT UNDISTURBED EARTH.	
HIGH	C. INSTALL HANDHOLES WITH BOTTOM BELOW FROST LINE.	
NLESS	D. INSTALL REMOVABLE HARDWARE, INCLUDING PULLING EYES, CABLE STANCHIONS, CABLE ARMS, AND INSULATORS, AS REQUIRED FOR INSTALLATION AND SUPPORT OF CABLES AND CONDUCTORS AND AS INDICATED. SELECT ARM LENGTHS TO BE LONG ENOUGH TO PROVIDE SPARE SPACE FOR FUTURE CABLES BUT SHORT ENOUGH TO PRESERVE ADEQUATE WORKING CLEARANCES IN ENCLOSURE.	
	E. FIELD-CUT OPENINGS FOR CONDUITS ACCORDING TO ENCLOSURE MANUFACTURER'S WRITTEN INSTRUCTIONS. CUT WALL OF ENCLOSURE WITH A TOOL DESIGNED FOR MATERIAL TO BE CUT. SIZE HOLES FOR TERMINATING FITTINGS TO BE USED, AND SEAL AROUND PENETRATIONS AFTER FITTINGS ARE INSTALLED.	X
555	3.5 FIRESTOPPING	A R
RTITIONS:	A. INSTALL FIRESTOPPING AT PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES. COMPLY WITH REQUIREMENTS IN SECTION 078413 "PENETRATION FIRESTOPPING."	ICI/
FOR USE AND	3.G PROTECTION	
B 2.10.	A. PROTECT COATINGS, FINISHES, AND CABINETS FROM DAMAGE AND DETERIORATION.	
REMENTS EXCEPT CTER. COMPLY	 REPAIR DAMAGE TO GALVANIZED FINISHES WITH ZINC-RICH PAINT RECOMMENDED BY MANUFACTURER. REPAIR DAMAGE TO PVC COATINGS OR PAINT FINISHES WITH MATCHING TOUCHUP COMPOUND RECOMMENDED BY MANUFACTURER. 	OND NDD RYLAND ;
NUMBER OF	3.7 SUPPORT INSTALLATION	, MAF
ALLEL RUNS OF EWAY RUNS	A. COMPLY WITH NECA I AND NECA I O I FOR INSTALLATION REQUIREMENTS EXCEPT AS SPECIFIED IN THIS ARTICLE.	
DR	B. STRENGTH OF SUPPORT ASSEMBLIES: WHERE NOT INDICATED, SELECT SIZES OF COMPONENTS SO STRENGTH WILL BE ADEQUATE TO CARRY PRESENT AND FUTURE STATIC LOADS WITHIN SPECIFIED LOADING LIMITS.	JE MA ANNA 2001 G
OR RACEWAY: , WHERE ITS D. MINIMUM	C.MOUNTING AND ANCHORAGE OF SURFACE-MOUNTED EQUIPMENT AND COMPONENTS: ANCHOR AND FASTEN ELECTRICAL ITEMS AND THEIR SUPPORTS TO BUILDING STRUCTURAL ELEMENTS BY THE FOLLOWING METHODS UNLESS OTHERWISE INDICATED BY CODE: I. TO NEW CONCRETE: BOLT TO CONCRETE INSERTS. 2. TO MASONRY: APPROVED TOGGLE-TYPE BOLTS ON HOLLOW	
TS ACITY CAN BE G SPECIFIED	MASONRY UNITS AND EXPANSION ANCHOR FASTENERS ON SOLID MASONRY UNITS. 3. TO EXISTING CONCRETE: EXPANSION ANCHOR FASTENERS. 4. TO STEEL: BEAM CLAMPS.	
WITH TWO- OR SINGLE- FOR	5. TO LIGHT STEEL: SHEET METAL SCREWS. 6. ITEMS MOUNTED ON HOLLOW WALLS AND NONSTRUCTURAL BUILDING SURFACES: MOUNT CABINETS, PANELBOARDS, DISCONNECT SWITCHES, CONTROL ENCLOSURES, PULL AND JUNCTION BOXES, TRANSFORMERS, AND OTHER DEVICES ON SI OTTED-CHANNEL RACKS	I certify that these documents were prepared or approved by me, and that I am a duly licensed
ISIBLE ABOVE	ATTACHED TO SUBSTRATE.	architect under the laws of the State of Maryland
ENDS IN ANY I FEWER BENDS ION.	 D. DRILL HOLES FOR EXPANSION ANCHORS IN CONCRETE AT LOCATIONS AND TO DEPTHS THAT AVOID REINFORCING BARS. 3.8 INSTALLATION OF FABRICATED METAL SUPPORTS 	Expiration Date: 2/3/18
I ATTACHED. R VIBRATION:	A.CUT, FIT, AND PLACE MISCELLANEOUS METAL SUPPORTS ACCURATELY IN LOCATION, ALIGNMENT, AND ELEVATION TO SUPPORT AND ANCHOR ELECTRICAL MATERIALS AND EQUIPMENT.	project number 16014 project description JECC CONDUIT
CONDUCTORS	END OF SECTION 260000	l " = I'-O" drawn by
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date description

sheet title

SPECIFICATIONS

sheet number

02

A0.02



I SITE PLAN



KEYED NOTES

01	FIBERGLASS HAND HOLE WITH DRAIN: SEE DETAIL 2/AI.I3
02	BUILDING ENTRY: SEE DETAIL G/A I . I 3 FOR MORE INFORMATION
03	24"x24" METAL PULL BOX; MOUNT TO UNDERSIDE OF RATED CEILING; SEE DETAIL; PATCH AND REPAIR I HOUR RATED CEILING, AS REQUIRED
05	2x4" DIRECT BURIED PVC CONDUIT; SEE DETAIL 3/A1.13 FOR MORE INFORMATION
06	HAND HOLE DRAIN; SEE DETAIL 1/A1.13
07	ELECTRICAL METALLIC TUBING CONDUIT; MOUNT TO UNDERSIDE OF RATED CEILING; SEE DETAIL 7/AI.I3 FOR MORE INFORMATION; PATCH AND REPAIR I HOUR RATED CEILING, AS REQUIRED

08 THROUGH PENETRATION FIRE STOP SYSTEM; SEE DETAIL 4/A1.13; PROVIDE 1 HOUR FIRE SEAL 09 ELECTRICAL METALLIC TUBING CONDUIT; MOUNT TO TRAPEZE SUPPORTS @ 4' O.C.; SEE DETAIL 5/A1.13 FOR MORE INFORMATION



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ETAIL 2/A I . I 3 DRE

LINE OF LAN ROOM ABOVE -----

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FIRST FLOOR- 2003/2001



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<u>WAREHOUSE</u>

02

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DESIGN Dela Design 728 Marianne Lane Catorsville, Maryland 21228 301.466.1884	
JECC CONDUIT MARYLAND JUDICIARY 2001 COMMERCE PARK DRIVE ANNAPOLIS, MARYLAND 21401	
I certify that these documents were prepared or approved by me, and that I am a duly licensed architect under the laws of the State of Maryland License Number: 0014484 Expiration Date: 2/3/18	
project description JECC CONDUIT scale As indicated drawn by WMC checked by WMC owner MARYLAND JUDICIARY contractor TBD	
drawing date 09/15/16 revision date # date description sheet title FLOOR PLANS	Oella Desian Studio
sheet number A1.11	convriaht 2016 (

KEYED NOTES

- FIBERGLASS HAND HOLE WITH DRAIN: SEE DETAIL 2/A1.13
 BUILDING ENTRY: SEE DETAIL 6/A1.13 FOR MORE INFORMATION
- 03 24"x24" METAL PULL BOX; MOUNT TO UNDERSIDE OF RATED CEILING; SEE DETAIL; PATCH AND REPAIR I HOUR RATED CEILING, AS REQUIRED
 05 2:40 DIRECT RURIED RVC CONDUCT. SEE DETAIL 2/41 1/2 FOR
- 05 2x4" DIRECT BURIED PVC CONDUIT; SEE DETAIL 3/A1.13 FOR MORE INFORMATION
 06 HAND HOLE DRAIN; SEE DETAIL 1/A1.13
- 07 ELECTRICAL METALLIC TUBING CONDUIT; MOUNT TO UNDERSIDE OF RATED CEILING; SEE DETAIL 7/A I . I 3 FOR MORE INFORMATION; PATCH AND REPAIR I HOUR RATED CEILING, AS REQUIRED
- 08 THROUGH PENETRATION FIRE STOP SYSTEM; SEE DETAIL
 4/A1.13; PROVIDE 1 HOUR FIRE SEAL
 09 ELECTRICAL METALLIC TUBING CONDUIT; MOUNT TO TRAPEZE
 SUPPORTS @ 4' O.C.; SEE DETAIL 5/A1.13 FOR MORE
 INFORMATION











2 UTILITY ENCLOSURE PULL BOX

4. BASIS OF DESIGN: UTILITY ENCLOSURE BOX: CARSON SPECIFICATION GRADE, MODEL 2436, 36" DEEP, GRAY (2436 | 188)

3. DO NOT SCALE DRAWING.

2. ALL DIMENSIONS ARE CONSIDERED TRUE AND REFLECT MANUFACTURER'S SPECIFICATIONS.

I. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

EST. WEIG

EST. WEIGHT: 96 LBS (BODY) 37 LBS (COVER)

ITEM	QTY	SKU	DESCRIPTION
1		24362049	2436-36 BODY GRAY 4 x 3/8 FLOATING NUT
2	I	24364087	2436 T COVER GRAY BLANK 4x BOLT HOLE
3	4	HBT-H35	BOLT HEXHEAD SS18-8.375-16 x 3-1/2
4	4	HWH-F40	WASHER FLAT SST .431 ID x 1 OD x .1 THICK











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