JUDGE'S CHAMBER #6
HOWARD COUNTY DISTRICT COURTHOUSE
3451 COURT HOUSE DRIVE
ELLICOTT CITY, MD 21043

GENERAL NOTES

1. APPLICABLE CODES:
   2012 INTERNATIONAL EXISTING BUILDING CODE- LEVEL 2 ALTERATION
   2012 INTERNATIONAL BUILDING CODE

2. ALL WORK IS TO BE COMPLETED BETWEEN THE HOURS OF 7PM AND 7AM. ALL REQUESTS FOR UTILITY SHUT SHALL BE DIRECTED TO THE PROJECT MANAGER FOR APPROVAL AND COORDINATION WITH OFFICE PERSONNEL.

3. ALL CONSTRUCTION ASSOCIATED WITH THIS PROJECT SHALL CONFORM TO THE ABOVE LISTED BUILDING CODES AS DICTATED AND INTERPRETED BY THE LOCAL AUTHORITY HAVING JURISDICTION. COMPLIANCE WITH THE BUILDING CODE REQUIREMENTS IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

4. ALL BUILDING COMPONENTS AND SYSTEMS SHALL BE INSTALLED AS DIRECTED BY THE LOCAL CODE OFFICIAL HAVING JURISDICTION.

5. THE METHOD OF CONSTRUCTION AND SEQUENCE OF OPERATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL SUPPLY ANY NECESSARY BRACING, SHEETING AND SHORING TO PROPERLY BRACE THE STRUCTURE AGAINST WIND, DEAD AND LIVE LOADS UNTIL THE BUILDING IS COMPLETED ACCORDING TO THE PLANS AND SPECIFICATIONS.

6. DO NOT START CONSTRUCTION UNTIL ALL REQUIRED PERMIT APPROVALS ARE OBTAINED.

7. VISIT THE SITE PRIOR TO CONSTRUCTION TO VERIFY EXISTING CONDITIONS. THOROUGHLY EXAMINE
AND BE FAMILIAR WITH THE DRAWINGS, DRAWING NOTES AND SPECIFICATIONS. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS. ANY AND ALL DISCREPANCIES AND CONFLICTS BETWEEN EXISTING CONDITIONS AND THESE DOCUMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND OWNER.

8. DO NOT SCALE THE DRAWINGS FOR ANY PURPOSE. CONTACT THE ARCHITECT IF ADDITIONAL DIMENSIONS ARE NEEDED.

9. FURNISH AND INSTALL ALL ITEMS SHOWN OR IMPLIED ON THE DRAWINGS UNLESS OTHERWISE NOTED.

10. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL BUILDING TRADES ASSOCIATED WITH THE WORK OUTLINED IN THESE DOCUMENTS. PRIOR TO CONSTRUCTION, GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE OWNER AND ARCHITECT ALL CONFLICTS AS THEY RELATE TO BUILDING TRADES AND SUB-CONTRACTORS FOR RESOLUTION.

11. MAINTAIN THE CONSTRUCTION SITE IN A CLEAN AND ORDERLY MANNER.

12. DIMENSIONS SHOWN ON THE DRAWINGS ARE FROM FINISH FACE OF PARTITION UNLESS OTHERWISE NOTED.

13. INFORMATION CONTAINED IN THESE DRAWINGS IS BASED ON LIMITED FIELD MEASUREMENTS AND MAY REQUIRE ADJUSTMENTS OR MODIFICATIONS TO CONFORM WITH EXISTING CONDITIONS. IN CASES WHERE CHANGES IN DETAIL ARE NECESSARY, THESE DRAWINGS SHALL BE USED TO SHOW DESIGN INTENT ONLY. PERFORM WORK, SHOWN OR IMPLIED, THAT IS NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS OR IS CUSTOMARILY PERFORMED AS IF FULLY AND CORRECTLY SET FORTH AND DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.

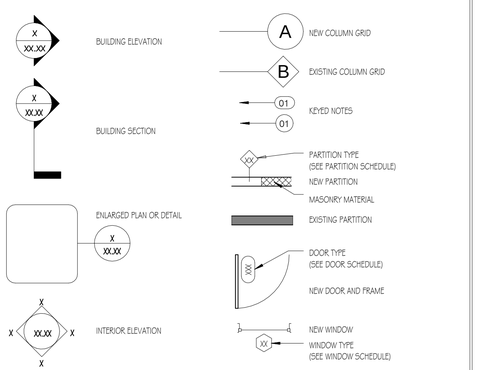
14. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (IBC) OR EQUIVALENT ADOPTED BUILDING CODE. THE AUTHORITY HAVING JURISDICTION, AS DEFINED BY THE BUILDING CODE, SHALL MAKE ANY AND ALL FINAL DETERMINATION REGARDING COMPLIANCE WITH THE BUILDING CODE. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COMPLETING ALL WORK TO SATISFY REQUIREMENTS OUTLINED BY THE PERMITING AUTHORITY AND SHALL CLOSE ALL PERMITS OPENED AS A RESULT OF THIS WORK.

15. PROTECT EXISTING BUILDING ELEMENTS TO REMAIN FROM DEMOLITION AND CONSTRUCTION ACTIVITIES. PATCH AND REPAIR ALL DAMAGE RESULTING FROM CONSTRUCTION ACTIVITIES.

16. FILL OPENINGS CREATED BY THE REMOVAL OF DUCTWORK, PIPING DEVICES, ETC. WITH MATERIAL EQUIVALENT TO THE ADJACENT CONSTRUCTION.

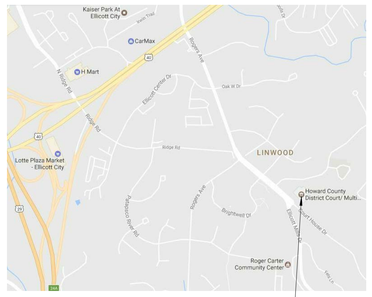
17. THE FACILITY IS SERVED BY AN AUTOMATIC SPRINKLER SYSTEM. THE AUTOMATIC SPRINKLER SYSTEM SHALL REMAIN FULLY OPERATIONAL IN ALL OCCUPIED AREAS AT ALL TIMES. SCHEDULE WORK THAT REQUIRES SHUT-DOWN OF THE SPRINKLER SYSTEM DURING TIMES WHEN THE FACILITY IS UNOCCUPIED.

SYMBOLS AND ANNOTATIONS

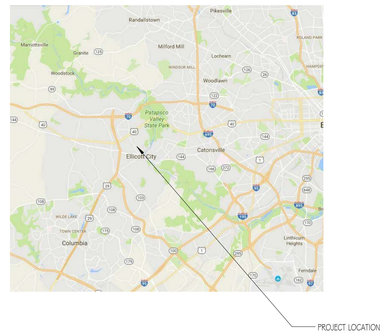


DRAWING INDEX

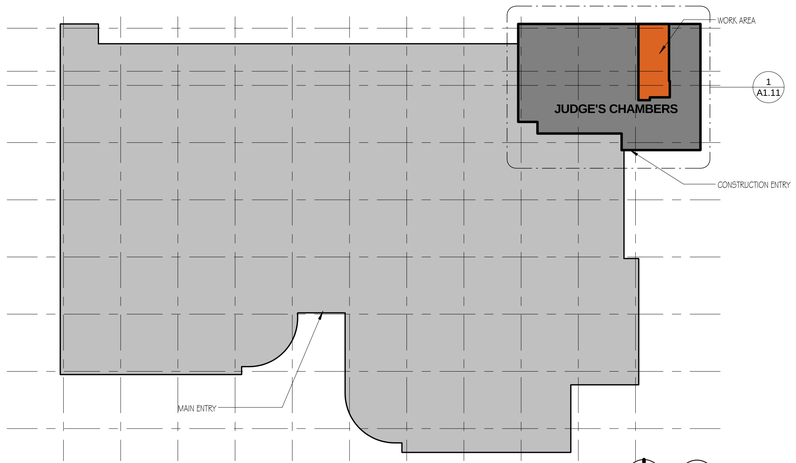
VICINITY MAP



LOCATION MAP



KEY PLAN



ella DESIGN
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JUDGE'S CHAMBER'S #6
HOWARD COUNTY
DISTRICT COURTHOUSE
3451 COURTHOUSE DRIVE
ELLICOTT CITY, MARYLAND 21043

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 number
16024
project description
JUDGE'S CHAMBERS
scale
As indicated
drawn by
WMC
checked by
WMC
owner
MARYLAND JUDICIARY
contractor
TBD

drawing date
02/13/17
revision date
date description

sheet title
COVER SHEET

sheet number
G0.01

SECTION 011100- SUMMARY OF WORK

1.1 PROJECT DESCRIPTION

A. WORK OF THIS PROJECT INCLUDES THE CONSTRUCTION OF A NEW ENTRY CANOPY ON AN EXISTING OFFICE BUILDING, LOCATED AT 501 TAYLOR AVENUE, ANNAPOLIS, MARYLAND; TAWES STATE OFFICE COMPLEX BLDG E.

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:
1. PROTECT INTERIOR AND EXTERIOR FINISHES, FURNITURE AND EQUIPMENT FROM CONSTRUCTION ACTIVITIES AT ALL TIMES.
2. INSTALL TEMPORARY CONSTRUCTION BARRIERS
3. PROVIDE A CONSTRUCTION PHASING AND STAGING PLAN IN ACCORDANCE WITH PROJECT INTERIM LIFE SAFETY PLAN

B. COORDINATE CONSTRUCTION SCHEDULE AND OPERATIONS WITH THE OWNER AND ARCHITECT.

C. SCHEDULE THE WORK TO ACCOMMODATE THIS REQUIREMENT.

1.3 OWNER OCCUPANCY

A. THE OWNER WILL OCCUPY THE SITE AND PREMISES, AND CONDUCT NORMAL OPERATIONS DURING THE ENTIRE PERIOD OF CONSTRUCTION .

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

C. SCHEDULE THE WORK TO ACCOMMODATE THIS REQUIREMENT.

D. WHEN CONDUCT OF NORMAL OPERATIONS ARE UNDULY AFFECTED BY CONSTRUCTION ACTIVITIES, IMMEDIATELY CEASE ALL CONSTRUCTION ACTIVITIES UPON REQUEST OF THE OWNER.

1.4 SECURITY CLEARANCE OF PERSONNEL

A. THE ADMINISTRATIVE OFFICE OF THE COURTS RESERVES THE RIGHT TO REMOVE ANY AND ALL PERSONNEL FROM THE CONSTRUCTION SITE OR STAGING AREA AT ANY TIME FOR ANY REASON.

B. WITHIN TWO WEEKS OF NOTICE TO AWARD OF THE CONSTRUCTION CONTRACT, THE GENERAL CONTRACTOR SHALL FURNISH A LIST OF ALL PERSONNEL INCLUDING ALL SUB-CONTRACTOR PERSONNEL TO BE USED IN THE EXECUTION OF THE WORK. THE LIST SHALL INCLUDE:
1. FULL LEGAL NAME
2. SOCIAL SECURITY NUMBER OR US IMMIGRATION CONTROL NUMBER (VISA OR PERMANENT RESIDENT)
3. STATE AND ADDRESS OF RESIDENCE
4. DRIVER'S LICENSE STATE AND IDENTIFICATION NUMBER
5. LIST OF ANY MISDEMEANOR CONVICTIONS IN THE PAST 5 YEARS NOT INCLUDING MINOR TRAFFIC INFRACTIONS
6. LIST OF ANY FELONY CONVICTIONS IN ANY UNITED STATES JURISDICTION
7. LIST OF ANY IMMEDIATE FAMILY MEMBERS OR KNOWN ASSOCIATES INVOLVED IN ONGOING OR PENDING CRIMINAL OR CIVIL PROCEDURES WITHIN THE STATE OF MARYLAND.

C. UPON REVIEW OF THE LIST OF ALL PERSONNEL, THE ADMINISTRATIVE OFFICE OF THE COURTS MAY PROHIBIT AND/OR DISALLOW PARTICIPATION OF ANY PERSON FOR ANY REASON.

D. THE ADMINISTRATIVE OFFICE OF THE COURTS MAY REQUEST A STATE OF MARYLAND BACKGROUND CHECK OF ANY PERSONNEL THAT ARE RESIDENT IN THE STATE OF MARYLAND. ANY COSTS ASSOCIATED WITH THE BACKGROUND CHECK SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

E. THE ADMINISTRATIVE OFFICE OF THE COURTS MAY REQUEST A FEDERAL BACKGROUND CHECK OF ANY PERSONNEL THAT IS NOT A RESIDENT OF THE STATE OF MARYLAND. ANY COSTS ASSOCIATED WITH THE BACKGROUND CHECK SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

F. DISALLOWANCE OF PERSONNEL IS NOT INTENDED TO LIMIT PARTICIPATION IN ACTIVITIES BY ANY INDIVIDUAL. DISALLOWANCE OF PERSONNEL IS INTENDED FOR THE PROTECTION OF COURT EMPLOYEES AND OFFICIALS. ALL REASONABLE REQUESTS FOR RECONSIDERATION OF PROHIBITED PERSONNAL MAY BE CONSIDERED UPON REQUEST.

G. NO PERSONNEL MAY BE EMPLOYED OR PARTICIPATE IN CONSTRUCTION ACTIVITIES WITHOUT PRIOR APPROVAL OF THE ADMINISTRATIVE OFFICE OF THE COURTS. THE ADMINISTRATIVE OFFICE OF THE COURTS SHALL NOT BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH DISALLOWANCE OF PERSONNEL OR DELAY OF THE WORK AS A RESULT OF DISALLOWANCE OF PARTICIPATION. THE OWNER SHALL NOT BE RESPONSIBLE FOR COSTS INCURRED AS A RESULT OF CONSIDERATION OF PROPOSED OR NEW PERSONNEL INCLUDING TIME ALLOTTED FOR STATE OR FEDERAL BACKGROUND CHECKS.

H. DISSALLOWANCE OF PERSONNEL RESULTING IN A DELAY OF THE WORK SHALL BE THE FULL RESPONSIBILITY OF THE GENERAL CONTRACTOR.

1.5 CONTRACTOR'S USE OF SITE AND PREMISES

A. LIMIT USE OF SITE AND PREMISES TO ALLOW FOR:
1. OWNER OCCUPANCY AND USE.
2. USE OF SITE AND ADJACENT PREMISES BY THE OCCUPANTS AND PUBLIC.
3. USE AND/OR SECURITIZATION BY MARYLAND STATE COURT OF APPEALS, MARYLAND DEPARTMENT OF GENERAL SERVICES AND/OR THE ADMINISTRATIVE OFFICE OF THE COURTS

B. SUBMIT TO OWNER FOR REVIEW AND ACCEPTANCE A CONSTRUCTION MOBILIZATION PLAN INCLUDING THE FOLLOWING:
1. STOCKPILE AND WASTE REMOVAL LOCATION
2. TOILET FACILITIES LOCATION
3. SECURITY MEASURES AND AMENITIES
4. OWNER RESERVES THE RIGHT TO DISSALLOW USE OF ANY PORTION OF THE SITE AT ANY TIME DURING MOBILIZATION AND CONSTRUCTION WITHOUT QUALIFICATION
5. THIS PROJECT IS LOCATED WITHIN AN OFFICE COMPLEX THAT INCLUDES HIGH SECURITY FUNCTIONS. DEMOBILIZATION OF CONSTRUCTION ACTIVITIES AND STAGING AREAS MAY BE REQUIRED AT ANY TIME. GENERAL CONTRACTOR SHALL IMMEDIATELY CEASE CONSTRUCTION ACTIVITIES, DISASSEMBLE AND/OR SECURE ANY AND ALL CONSTRUCTION ACTIVITIES AND STAGING AREAS UPON NOTIFICATION BY THE ADMINISTRATIVE OFFICE OF THE COURTS, MARYLAND DEPARTMENT OF GENERAL SERVICES, OR THE MARYLAND STATE COURT OF APPEALS.
6. GENERAL CONTRACTOR SHALL BE FULLY REIMBURSED FOR ALL SUCH REASONABLE COSTS THAT MAY BE INCURRED DURING THE DEMOBILIZATION, REMOBILIZATION AND/OR SECURITIZATION OF CONSTRUCTION OR STAGING AREAS OCCURING AS A RESULT OF COURT OR SECURITY ACTIVITIES.

SECTION 011100- SUMMARY OF WORK- CONT'D

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

D. ASSUME FULL RESPONSIBILITY FOR PROTECTION AND SAFEKEEPING OF PRODUCTS UNDER THIS CONTRACT STORED ON SITE.

E. OBTAIN AND PAY FOR USE OF ANY ADDITIONAL STORAGE OR WORK AREAS NEEDED FOR OPERATIONS.

F. COORDINATE USE OF SITE AND PREMISES WITH THE OWNER:
1. EMPLOYEE PARKING IS NOT PROVIDED ON SITE.
2. STORAGE AND STAGING AREAS ARE LIMITED TO THE CONSTRUCTION AREA.
3. USE OF BUILDING ELEVATOR IS NOT PERMITTED.

G. BUILDING FIRE OR LIFE SAFETY SYSTEMS SHALL REMAIN OPERATIONAL AT ALL TIMES.

H. DO NOT CLOSE OR OBSTRUCT EXITS. REFER TO THE INTERIM LIFE SAFETY PLANS FOR MORE INFORMATION.

I. DO NOT PROP BUILDING ENTRY DOORS. MAINTAIN THE BUILDING IN A SECURE MANNER AT ALL TIMES.

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

K. SMOKING IS PROHIBITED IN THE BUILDING.
1. SMOKING IS PERMITTED OUTDOORS IN DEDICATED AREAS ONLY AND IN ACCORDANCE WITH ALL STATE AND LOCAL LAWS AND RESTRICTIONS

L. ELECTRICAL AND WATER UTILITIES ARE AVAILABLE FOR USE BY THE CONTRACTOR

M. TOILET FACILITIES ARE NOT AVAILABLE ON THE PREMISES.
1. PROVIDE TEMPORARY TOILET FACILITIES ADJACENT TO THE SITE
2. SERVICE TOILET FACILITIES ON A BI-MONTHLY BASIS
3. SERVICE TOILET FACILITIES IMMEDIATELY UPON THE REQUEST OF THE BUILDING MANAGER OR OWNER

SECTION 013100- PROJECT MANAGEMENT AND COORDINATION

1.1 SUMMARY

A. SECTION INCLUDES:
1. PROJECT COORDINATION.
2. COORDINATION DRAWINGS.
3. PROJECT MEETINGS.

1.2 PROJECT COORDINATION

A. SUBMIT REQUIRED PROJECT SUBMITTALS ELECTRONICALLY IN ADOBE PDF FORMAT.

B. COORDINATE SCHEDULING, SUBMITTALS, AND WORK OF VARIOUS SECTIONS OF SPECIFICATIONS TO ASSURE EFFICIENT AND ORDERLY SEQUENCE OF INSTALLATION OF INTERDEPENDENT CONSTRUCTION ELEMENTS.
1. PROVIDE A CRITICAL PATH METHOD (CPM) SCHEDULE FOR REVIEW AND APPROVAL PRIOR TO COMMENCMENT OF THE WORK
2. IDENTIFY ANY NECESSARY FACILITY OR PARTIAL UTILITY SHUT-DOWNS
3. IDENTIFY ANY WORK PRODUCING EXCESS NOISE
4. IDENTIFY ANY WORK PRODUCING EXCESS DEBRIS, DUST OR WASTE

C. VERIFY THAT UTILITY REQUIREMENT CHARACTERISTICS OF OPERATING EQUIPMENT ARE COMPATIBLE WITH BUILDING UTILITIES. COORDINATE WORK OF VARIOUS SECTIONS HAVING INTERDEPENDENT RESPONSIBILITIES FOR INSTALLING, CONNECTING TO, AND PLACING IN SERVICE SUCH EQUIPMENT.

D. COORDINATE SPACE REQUIREMENTS AND INSTALLATION OF MECHANICAL AND ELECTRICAL ITEMS THAT ARE INDICATED DIAGRAMMATICALLY ON DRAWINGS.
1. FOLLOW ROUTING SHOWN AS CLOSELY AS PRACTICAL; PLACE RUNS PARALLEL WITH BUILDING LINES.
2. UTILIZE SPACES EFFICIENTLY TO MAXIMIZE ACCESSIBILITY FOR OTHER INSTALLATIONS, FOR MAINTENANCE, AND FOR REPAIRS.

E. IN FINISHED AREAS, CONCEAL PIPES, DUCTS, AND WIRING WITHIN CONSTRUCTION. COORDINATE LOCATIONS OF FIXTURES AND OUTLETS WITH FINISH ELEMENTS.

F. COORDINATE COMPLETION AND CLEAN UP OF WORK OF SEPARATE SECTIONS IN PREPARATION FOR SUBSTANTIAL COMPLETION.

G. AFTER OWNER OCCUPANCY, COORDINATE ACCESS TO SITE FOR CORRECTION OF DEFECTIVE WORK AND WORK NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS TO MINIMIZE DISRUPTION OF OWNER'S ACTIVITIES.

1.3 COORDINATION DRAWINGS

A. COORDINATION DRAWINGS:
1. PRIOR TO COMMENCEMENT OF WORK, PREPARE COORDINATION DRAWINGS TO DEFINE RELATIONSHIP OF MECHANICAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL COMPONENTS WITH BEAMS, COLUMNS, CEILINGS AND WALLS.
2. INCLUDE PLANS, ELEVATIONS, SECTIONS, AND DETAILS REQUIRED TO DEFINE RELATIONSHIPS BETWEEN COMPONENTS.
3. PREPARE DRAWINGS AT 1/4 INCH = 1'-0" SCALE FOR GENERAL LAYOUT AND 3/8 INCH = 1'-0" FOR PLANS AND SECTIONS IN CONGESTED AREAS INCLUDING EQUIPMENT SPACES.
4. SUBMIT ELECTRONICALLY IN ADOBE PDF FORMAT.

B. HOLD COORDINATION MEETINGS WITH TRADES PROVIDING MECHANICAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL WORK.

C. RESOLVE CONFLICTS BETWEEN TRADES, PREPARE COMPOSITE COORDINATION DRAWINGS AND OBTAIN SIGNATURES ON ORIGINAL COMPOSITE COORDINATION DRAWINGS.

D. WHEN CONFLICTS CANNOT BE RESOLVED:
1. CEASE WORK IN AREAS OF CONFLICT AND REQUEST CLARIFICATION PRIOR TO PROCEEDING.
2. PREPARE DRAWINGS TO DEFINE AND TO INDICATE PROPOSED SOLUTION.
3. SUBMIT DRAWINGS FOR APPROVAL WHEN ACTUAL MEASUREMENTS AND ANALYSIS OF DRAWINGS AND PROJECT MANUAL INDICATE THAT VARIOUS SYSTEMS CANNOT BE INSTALLED WITHOUT SIGNIFICANT DEVIATION FROM INTENT OF CONTRACT DOCUMENTS.

1.4 PROJECT MEETINGS

A. SCHEDULE AND ADMINISTER PRECONSTRUCTION CONFERENCE PROGRESS MEETINGS AND PRE-INSTALLATION CONFERENCES.

B. MAKE PHYSICAL ARRANGEMENTS FOR MEETINGS; NOTIFY INVOLVED PARTIES AT LEAST 4 DAYS IN ADVANCE.

C. RECORD SIGNIFICANT PROCEEDINGS AND DECISIONS AT EACH MEETING; REPRODUCE AND DISTRIBUTE COPIES TO PARTIES IN ATTENDANCE AND OTHERS AFFECTED BY PROCEEDINGS AND DECISIONS MADE.

SECTION 013100- CONT'D

1.5 PRECONSTRUCTION CONFERENCE

A. SCHEDULE WITHIN 15 DAYS AFTER DATE OF NOTICE TO PROCEED AT CONTRACTOR'S PROJECT FIELD OFFICE.

B. ATTENDANCE:
1.CONTRACTOR.
2. OWNER.
3.ARCHITECT.
4. MAJOR SUBCONTRACTORS AND SUPPLIERS AS CONTRACTOR DEEMS APPROPRIATE.
5. ANY COURT PERSONNEL THE OWNER DEEMS APPROPRIATE

C. PROVIDE A MEETING AGENDA INCLUDING:
1. RELATION AND COORDINATION OF VARIOUS PARTIES, AND RESPONSIBLE PERSONNEL FOR EACH PARTY.
2. USE OF PREMISES, INCLUDING OFFICE AND STORAGE AREAS, TEMPORARY CONTROLS, AND SECURITY PROCEDURES.
3. CONSTRUCTION SCHEDULE AND CRITICAL WORK SEQUENCING.
a. IDENTIFY ANY FACILITY OR PARTIAL UTILITY SHUT DOWNS
b. IDENTIFY ANY EXCESS NOISE PRODUCING ACTIVITIES
4. PROCESSING OF:
a. CONTRACT MODIFICATIONS.
b. SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
c. APPLICATIONS FOR PAYMENT.
d. SUBSTITUTIONS.
e. REQUESTS FOR INFORMATION.
f. OTHER REQUIRED SUBMITTALS.
5. ADEQUACY OF DISTRIBUTION OF CONTRACT DOCUMENTS.
6. PROCEDURES FOR MAINTAINING CONTRACT CLOSEOUT SUBMITTALS.
7. INSTALLATION AND REMOVAL OF TEMPORARY FACILITIES.
8. NOTIFICATION PROCEDURES AND EXTENT OF TESTING AND INSPECTION SERVICES.

1.5 PROGRESS MEETINGS

A. SCHEDULE MONTHLY PROGRESS MEETINGS.

B. LOCATION: CONTRACTOR'S PROJECT FIELD OFFICE.

C. ATTENDANCE:
1. CONTRACTOR.
2. OWNER.
3. ARCHITECT.
4. MAJOR SUBCONTRACTORS AND SUPPLIERS AS CONTRACTOR DEEMS APPROPRIATE.
5. ANY COURT PERSONNEL THE OWNER DEEMS APPROPRIATE
6. OTHERS AS APPROPRIATE TO AGENDA.

D. PROVIDE AN MEETING AGENDA INCLUDING:
1. WORK PROGRESS SINCE PREVIOUS MEETING, INCLUDING:
a. FIELD OBSERVATIONS, DEFICIENCIES, CONFLICTS, AND PROBLEMS.
b. PROGRESS AND COMPLETION DATE.
c. CORRECTIVE MEASURES NEEDED TO MAINTAIN QUALITY STANDARDS, PROGRESS, AND COMPLETION DATE.
2. STATUS OF:
a. REQUESTS FOR INFORMATION.
b. SUBMITTALS.
c. CONTRACT MODIFICATIONS.
3. COORDINATION BETWEEN VARIOUS ELEMENTS OF WORK.

4. MAINTENANCE OF PROJECT RECORD DOCUMENTS.

1.6 PRE-INSTALLATION CONFERENCES

A. WHERE REQUIRED IN INDIVIDUAL SPECIFICATION SECTION, CONVENE A PRE-INSTALLATION CONFERENCE AT PROJECT SITE OR OTHER DESIGNATED LOCATION.

B. REQUIRE ATTENDANCE OF PARTIES DIRECTLY AFFECTING OR AFFECTED BY WORK OF THE SPECIFIC SECTION.

C. REVIEW CONDITIONS OF INSTALLATION, PREPARATION AND INSTALLATION PROCEDURES, AND COORDINATION WITH RELATED WORK.

SECTION 012900-PAYMENT PROCEDURES

1.1 SCHEDULE OF VALUES

A. GENERAL:
1. 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.
3. APPROVED SCHEDULE OF VALUES WILL BE USED AS BASIS FOR REVIEWING CONTRACTOR'S APPLICATIONS FOR PAYMENT.

B. FORM AND CONTENT:
1. FORMAT: CONTRACTOR'S STANDARD ELECTRONIC MEDIA FORMAT.
2. USE TABLE OF CONTENTS OF PROJECT MANUAL AS BASIS OF FORMAT FOR LISTING COSTS OF WORK.
3. LIST INSTALLED VALUE OF COMPONENT PARTS OF WORK IN 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.

1.2 APPLICATIONS FOR PAYMENT

A. PREPARATION:
1. 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 SECTION 017700.

B. WAIVERS OF LIEN:
1. 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.

SECTION 012900- CONT'D

C. SUBSTANTIATING DATA:
1. 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:
1. SUBMIT ONE ELECTRONIC COPY IN ADOBE PDF FORMAT] OF EACH APPLICATION FOR PAYMENT.
2. PAYMENT PERIOD: SUBMIT AT INTERVALS STIPULATED IN OWNER/CONTRACTOR AGREEMENT.

E. SUBMIT ELECTRONICALLY IN ADOBE PDF FORMAT.

F. REVIEW AND RESUBMITTAL:
1. 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:
1. 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 SECTION 017700.

B. WAIVERS OF LIEN:
1. 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:
1. WHEN ARCHITECT REQUIRES SUBSTANTIATING INFORMATION, SUBMIT DATA JUSTIFYING DOLLAR AMOUNTS IN QUESTION.
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D. SUBMITTAL:
1. 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:
1. 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.

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.

1.2 SUBMITTAL SCHEDULE

A. WITHIN 15 DAYS AFTER DATE OF NOTICE TO PROCEED, SUBMIT ALL SUBMITTALS PROPOSED FOR PROJECT, INCLUDING SUBMITTALS LISTED AS:
1. 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:
1. SPECIFICATION SECTION NUMBER.
2. DESCRIPTION OF SUBMITTAL.
3. TYPE OF SUBMITTAL.

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

SECTION 013300- CONT'D

1.3 QUALITY CONTROL SUBMITTALS

A. QUALITY CONTROL SUBMITTALS SPECIFIED IN SECTION 014000 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.

1.2 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.

1.3 MANUFACTURERS' FIELD SERVICES AND REPORTS

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.

1.4 DESIGN DATA AND CALCULATIONS

A. WHEN SPECIFIED IN INDIVIDUAL SPECIFICATION SECTIONS, REQUIRE MATERIAL OR PRODUCT SUPPLIERS OR MANUFACTURERS TO PROVIDE DESIGN DATA AND CALCULATIONS.

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

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.

D. SUBMIT ELECTRONICALLY IN ADOBE PDF FORMAT.

1.5 TEST REPORTS AND CERTIFICATIONS

A. WHEN SPECIFIED IN INDIVIDUAL SPECIFICATION SECTIONS, REQUIRE MATERIAL OR PRODUCT SUPPLIERS OR MANUFACTURERS TO PROVIDE TEST REPORTS AND MANUFACTURERS' CERTIFICATIONS.

B. INDICATE THAT MATERIAL OR PRODUCT CONFORMS TO OR EXCEEDS SPECIFIED REQUIREMENTS. SUBMIT SUPPORTING REFERENCE DATA, AFFIDAVITS, AND CERTIFICATIONS AS APPROPRIATE.

C. SUBMITTALS MAY BE RECENT OR PREVIOUS TEST RESULTS ON MATERIAL OR PRODUCT, BUT MUST BE ACCEPTABLE TO ARCHITECT.

D. SUBMIT ELECTRONICALLY IN ADOBE PDF FORMAT.

1.6 MANUFACTURER'S INSTALLATION INSTRUCTIONS

A. WHEN CONTRACT DOCUMENTS REQUIRE THAT PRODUCTS BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS:
1. SUBMIT MANUFACTURER'S MOST RECENT PRINTED INSTRUCTIONS FOR DELIVERY, STORAGE, ASSEMBLY, INSTALLATION, START-UP, ADJUSTING, AND FINISHING, AS APPLICABLE.
A. SUBMIT IN QUANTITIES SPECIFIED FOR PRODUCT DATA.
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 DOCUMENTS.
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 AWAIT INSTRUCTIONS.
4. SUBMIT ELECTRONICALLY IN ADOBE PDF FORMAT.

SECTION 017329-CUTTING AND PATCHING

1.1 PREPARATION

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.

D. PROVIDE PROTECTION FROM ELEMENTS.

1.2 CUTTING AND PATCHING

A. EXECUTE CUTTING TO INCLUDE EXCAVATING, FITTING, AND PATCHING OF WORK REQUIRED TO:
1. MAKE SEVERAL PARTS FIT PROPERLY.
2. UNCOVER WORK TO PROVIDE FOR INSTALLATION OF ILL TIMED WORK.
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 CONDUIT.

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 PATCHING FOR:
1. WEATHER EXPOSED OR MOISTURE RESISTANT ELEMENTS.
2. SIGHT EXPOSED FINISHED SURFACES.

F. RESTORE WORK THAT HAS BEEN CUT OR REMOVED; INSTALL NEW PRODUCTS TO PROVIDE COMPLETED WORK IN ACCORDANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS.

G. REFINISH ENTIRE SURFACES AS NECESSARY TO PROVIDE AN EVEN FINISH:
1. CONTINUOUS SURFACES: TO NEAREST INTERSECTIONS.
2. ASSEMBLY: REFINISH ENTIRELY.

SECTION 017419- CONSTRUCTION WASTE

1.1 GENERAL

A. REUSE OR RECYCLE NON-HAZARDOUS WASTE MATERIALS.

B. MINIMIZE WASTE SENT TO LANDFILLS AND INCINERATORS.

C. PRIORITIZE NON-HAZARDOUS CONSTRUCTION WASTE MANAGEMENT IN FOLLOWING ORDER:
1. 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 ECONOMIC BENEFIT AT LANDFILL.

1.2 MANAGEMENT

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

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

C. RETURN UNUSED PRODUCTS AND OVERAGES TO SUPPLIER AND RETURN CREDIT(S) TO OWNER.

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

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 ALL TIMES.

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

1.3 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:
1. 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 OPERATIONS.

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:

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.

1.4 OPERATION AND MAINTENANCE DATA

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

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

A. SIGNIFICANT DESIGN CRITERIA.
1. 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:
1. NAME AND CONTACT INFORMATION FOR THE INSTALLER SERVICE AGENT.
2. NAME AND CONTACT INFORMATION FOR THE MANUFACTURER SERVICE AGENT.

I. SUBMITTAL:
1. 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.

ella DESIGN
Oella Design
728 Marianne Lane
Catonsville, Maryland 21228
301.466.1884

JUDGE'S CHAMBER'S #6
HOWARD COUNTY
DISTRICT COURTHOUSE
3451 COURTHOUSE DRIVE
ELLICOTT CITY, MARYLAND 21043

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 number
16024
project description
JUDGE'S CHAMBERS
scale
1" = 1'-0"
drawn by
WMC
checked by
WMC
owner
MARYLAND JUDICIARY
contractor
TBD

drawing date
03/17/17
revision date
date description

sheet title
GENERAL CONDITIONS

sheet number
A0.01

SECTION 06410- ARCHITECTURAL WOOD CASEWORK

1.1 SUMMARY

A. SECTION INCLUDES:
1. ALLOWANCES FOR PRE-MANUFACTURED BATHROOM VANITIES
2. SHOP FABRICATED ADJUSTABLE SHELVING UNITS.
3. SHOP FINISHING.
4. CABINET HARDWARE.

1.2 REFERENCES

A. ARCHITECTURAL WOODWORK INSTITUTE/ARCHITECTURAL WOODWORK MANUFACTURERS OF CANADA/WOODWORK INSTITUTE (AWI/AWMAC/WI) (WWW.AWINET.ORG) (WWW.AWMAC.COM) (WWW.WOODWORKINSTITUTE.COM) - ARCHITECTURAL WOODWORK STANDARDS.

1.3 SUBMITTALS

A. SUBMITTALS FOR REVIEW:
1. SHOP DRAWINGS:
a. INCLUDE DIMENSIONED PLAN, SECTIONS, ELEVATIONS, AND DETAILS, INCLUDING INTERFACE WITH ADJACENT WORK.
b. DESIGNATE WOOD SPECIES AND FINISHES.
2. SAMPLES:
a. 4 X 4 INCH SHEET PRODUCT SAMPLES FOR TRANSPARENT FINISH. INCLUDE THE FOLLOWING FOR SUBMISSION OF SUSTAINABLE DESIGN SUBMITTALS.

1.4 DELIVERY, STORAGE AND HANDLING

A. DO NOT DELIVER MATERIALS UNTIL PROPER PROTECTION CAN BE PROVIDED, AND UNTIL NEEDED FOR INSTALLATION.

1.5 PROJECT CONDITIONS

A. ENVIRONMENTAL REQUIREMENTS: MAINTAIN FOLLOWING CONDITIONS IN BUILDING FOR MINIMUM 7 DAYS PRIOR TO, DURING, AND AFTER INSTALLATION OF CASEWORK:
1. TEMPERATURE: 60 TO 80 DEGREES F.
2. HUMIDITY: 25 TO 55 PERCENT.

2.1 ALLOWANCES

A. SUBJECT TO APPROVAL BY ARCHITECT, PROVIDE CLEAR FINISHED SOLID WOOD FLOOR MOUNTED VANITY OF SIZE AND CONFIGURATION INDICATED ON DRAWINGS
1. COST ALLOWANCE NOT TO EXCEED $500

2.2 MATERIALS

A. SHEET PRODUCTS:
1. GRADED IN ACCORDANCE WITH AWI/AWMAC/WI ARCHITECTURAL WOODWORK STANDARDS, SECTION 4 REQUIREMENTS FOR QUALITY GRADE SPECIFIED.
2. SIDES: EXPOSED AND SEMI-EXPOSED VENEERS: ¾" SPECIES, CUT AND STAIN TO MATCH EXISTING; VENEER CORE PLYWOOD
3. BACKS: EXPOSED AND SEMI-EXPOSED VENEERS: ½" SPECIES, CUT AND STAIN TO MATCH EXISTING; VENEER CORE PLYWOOD
4. SHELVES EXPOSED AND SEMI-EXPOSED VENEERS: ¾" SPECIES, CUT AND STAIN TO MATCH EXISTING; VENEER CORE PLYWOOD; 3/8" APPLIED HARDWOOD NOSING
5. ROUGH KICKS AND BLOCKING
6. SHEET CORE: VENEER CORE

B. SOLID WOOD EDGING
1. SPECIES AND COLOR TO MATCH VENEER
a. SOLID 1" JOINED NOSING AT SHELF PANELS
b. SOLID WOOD EDGING: MACHINE APPLIED 3/8" SOLID WOOD EDGING TO MATCH EXISTING SPECIES AT SHELF

2.3 ACCESSORIES

A. FASTENERS: TYPE AND SIZE AS REQUIRED BY CONDITIONS OF USE.
B. ADHESIVES:
1. WATERPROOF TYPE COMPATIBLE WITH BACKING AND VENEER MATERIALS.
C. HARDWARE:
1. RECESSED STANDARDS: MATCH EXISTING SHELF MOUNTING SYSTEM

2.4 FABRICATION

A. CABINETS - TRANSPARENT FINISH:
1. QUALITY: AWI/AWMAC/WI ARCHITECTURAL WOODWORK STANDARDS, SECTION 10, CUSTOM GRADE.
2. CONSTRUCTION TYPE: FACE FRAME.
3. SEMI-EXPOSED SURFACES:[WOOD TO MATCH EXPOSED SURFACES.
4. FIT EXPOSED AND SEMI-EXPOSED SHEET EDGES WITH MATCHING WOOD EDGING.

B. SHOP ASSEMBLE FOR DELIVERY TO PROJECT SITE IN UNITS EASILY HANDLED.
C. PRIOR TO FABRICATION, FIELD VERIFY DIMENSIONS TO ENSURE CORRECT FIT.
D. WHERE FIELD FITTING IS REQUIRED, PROVIDE AMPLE ALLOWANCE FOR CUTTING. PROVIDE TRIM FOR SCRIBING AND SITE CONDITIONS.
E. PROVIDE CUTOUTS AND REINFORCEMENT FOR ELECTRICAL, AND ACCESSORIES.

2.5 FINISHES

A. FACTORY FINISHING:
1. FACTORY FINISH CASEWORK IN ACCORDANCE WITH AWI/AWMAC/WI ARCHITECTURAL WOODWORK STANDARDS, SECTION 5.
2. MATCH EXISTING COLOR AND SHEEN

3.1 PREPARATION

A. PRIOR TO INSTALLATION, CONDITION CABINETS TO AVERAGE HUMIDITY THAT WILL PREVAIL AFTER INSTALLATION.

3.2 INSTALLATION

A. INSTALL IN ACCORDANCE WITH AWI/AWMAC/WI ARCHITECTURAL WOODWORK STANDARDS.
B. SET PLUMB, RIGID AND LEVEL.
C. SCRIBE TO ADJACENT CONSTRUCTION WITH MAXIMUM 1/8 INCH GAPS.
D. FILL JOINTS BETWEEN CABINETS AND ADJACENT CONSTRUCTION WITH JOINT SEALER AS SPECIFIED IN SECTION 079200; FINISH FLUSH.

END OF SECTION

SECTION 066116- SOLID SURFACING FABRICATIONS

1.1 SUMMARY

A. SECTION INCLUDES:
1. SOLID SURFACING COUNTERTOPS WITH SINK BOWLS.

1.2 REFERENCES

A. ASTM INTERNATIONAL (ASTM) (WWW.ASTM.ORG) E84 - STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS.

1.3 SUBMITTALS

1. SAMPLES: 2 X 2 INCH SAMPLES SHOWING AVAILABLE COLORS.

2.1 MANUFACTURERS

A. ACCEPTABLE MANUFACTURERS:
1. DUPONT. (WWW.CORIAN.COM)
2. FORMICA CORP. (WWW.FORMICA.COM)
3. WILSONART INTERNATIONAL, INC. (WWW.WILSONART.COM)

2.2 MATERIALS

A. SOLID SURFACING:
1. MATERIAL: HOMOGENOUS SHEET MATERIAL COMPOSED OF ACRYLIC RESINS, AGGREGATES, AND COLORING AGENTS.
2. THICKNESS: 3 CM.
3. COLOR AND SURFACE FINISH: TO BE SELECTED FROM MANUFACTURER'S FULL COLOR RANGE.
4. BASIS OF DESIGN: DUPONT CORIAN PRICE GROUP D
5. SUBJECT TO APPROVAL BY ARCHITECT: ALTERNATE MANUFACTURE'S MATCHING COLOR

B. SINKS:
1. TYPE: FILLED METHYL METHACRYLATE WITH INTEGRAL DRAIN AND OVERFLOW HOLES.
2. SHAPE: OVAL.
3. SIZE: 16.5 X 13.125 INCHES X 6.25 INCHES DEEP.
4. COLOR: WHITE
5. BASIS OF DESIGN: DUPONT CORIAN 810

2.3 ACCESSORIES

A. ADHESIVE:
1. TYPE RECOMMENDED BY SOLID SURFACING MANUFACTURER.

2.4 FABRICATION

A. FABRICATE COMPONENTS IN SHOP TO SIZES AND SHAPES INDICATED, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPROVED SHOP DRAWINGS.
FABRICATE SPLASHES FROM SOLID SURFACING IN COLOR TO MATCH COUNTERTOPS.
B. FORM JOINTS TO BE INCONSPICUOUS IN APPEARANCE AND WITHOUT VOIDS. JOIN PIECES WITH ADHESIVE.
C. PROVIDE HOLES AND CUTOUTS FOR MOUNTING OF TRIM, AND ACCESSORIES].
D. FINISH EXPOSED EDGES TO SMOOTH, UNIFORM BEVELED PROFILE.
E. ALLOWABLE TOLERANCES:
1. MAXIMUM VARIATION IN SIZE: 1/8 INCH.
2. MAXIMUM VARIATION IN LOCATION OF OPENINGS: 1/8 INCH FROM INDICATED LOCATION.

3.1 INSTALLATION

A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPROVED SHOP DRAWINGS.
B. SET PLUMB, LEVEL, AND RIGID.
C. ADHERE COUNTERTOPS, SPLASHES, AND SKIRTS WITH BEADS OF ADHESIVE.
D. SEAL PERIMETER WITH JOINT SEALER AS SPECIFIED IN SECTION 079200. FINISH SMOOTH AND FLUSH.
E. ALLOWABLE TOLERANCES:
1. MAXIMUM VARIATION FROM LEVEL AND PLUMB: 1/8 INCH IN 10 FEET, NONCUMULATIVE.
2. MAXIMUM VARIATION IN PLANE BETWEEN ADJACENT PIECES AT JOINT: PLUS OR MINUS 1/32 INCH.

F. FIELD BORE HOLES FOR MIXING VALVE AS REQUIRED BY PLUMBING TEMPLATE

3.2 ADJUSTING

A. SAND OUT MINOR SCRATCHES AND ABRASIONS.

3.3 PROTECTION

A. PROTECT SURFACES FROM DAMAGE WITH NONSTAINING COVERINGS.

END OF SECTION

SECTION 07920- JOINT SEALERS

1.1 SUMMARY

A. SECTION INCLUDES:
1. JOINT BACKUP MATERIALS.
2. JOINT SEALERS.

1.2 REFERENCES

A. ASTM INTERNATIONAL (ASTM) (WWW.ASTM.ORG):
1. C834 - STANDARD SPECIFICATION FOR LATEX SEALING COMPOUNDS.
2. C919 - STANDARD PRACTICE FOR USE OF SEALANTS IN ACOUSTICAL APPLICATIONS.
3. D2203 - STANDARD TEST METHOD FOR STAINING FROM SEALANTS.

1.3 PROJECT CONDITIONS

A. DO NOT APPLY SEALERS AT TEMPERATURES BELOW 40 DEGREES F UNLESS APPROVED BY SEALER MANUFACTURER.

2.1 MANUFACTURERS

A. ACCEPTABLE MANUFACTURERS:
1. BASF BUILDING SYSTEMS. (WWW.BUILDINGSYSTEMS.BASF.COM)
2. DOW CORNING CORP. (WWW.DOWCORNING.COM)
3. GE SILICONES. (WWW.SILICONEFORBUILDING.COM)
4. PECORA CORP. (WWW.PECORA.COM)
5. SIKA CORP. (WWW.SIKAUSA.COM)
6. TREMCO, INC. (WWW.TREMCOSEALANTS.COM)

2.2 MATERIALS

A. JOINT SEALER TYPE 1:
1. ASTM C834, SINGLE COMPONENT ACRYLIC LATEX, NON SAG.
2. MOVEMENT CAPABILITY: PLUS OR MINUS 7-1/2 PERCENT.
3. COLOR: WHITE.

B. JOINT SEALER TYPE 2:
1. ASTM C920, GRADE NS, SINGLE COMPONENT SILICONE, NON SAG, MILDEW RESISTANT.
2. MOVEMENT CAPABILITY: PLUS OR MINUS 25 PERCENT.
3. COLOR: WHITE

C. JOINT SEALER TYPE 3:
1. ASTM C834, SINGLE COMPONENT ACRYLIC LATEX, NON SAG, NON-HARDENING, NON-CORROSIVE, RECOMMENDED BY MANUFACTURER FOR ACOUSTICAL APPLICATIONS.
2. MOVEMENT CAPABILITY: PLUS OR MINUS 7-1/2 PERCENT.
3. COLOR: WHITE.

2.3 ACCESSORIES

A. PRIMERS, BONDBREAKERS, AND SOLVENTS: AS RECOMMENDED BY SEALER MANUFACTURER.
B. JOINT BACKING:
1. ASTM C1330, CLOSED CELL POLYETHYLENE FOAM, PREFORMED ROUND JOINT FILLER, NON ABSORBING, NON STAINING, RESILIENT, COMPATIBLE WITH SEALER AND PRIMER, RECOMMENDED BY SEALER MANUFACTURER FOR EACH SEALER TYPE.
2. SIZE: MINIMUM 1.25 TIMES JOINT WIDTH.

3.1 PREPARATION

A. REMOVE LOOSE AND FOREIGN MATTER THAT COULD IMPAIR ADHESION. IF SURFACE HAS BEEN SUBJECT TO CHEMICAL CONTAMINATION, CONTACT SEALER MANUFACTURER FOR RECOMMENDATION.
B. CLEAN AND PRIME JOINTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
C. PROTECT ADJACENT SURFACES WITH MASKING TAPE OR PROTECTIVE COVERINGS.
D. CALCULATE JOINT DIMENSIONS IN ACCORDANCE WITH ASTM C1472.

3.2 APPLICATION

A. APPLY PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. INSTALL SEALERS AND ACCESSORIES IN ACCORDANCE WITH ASTM C1193.
C. INSTALL ACOUSTICAL SEALERS AND ACCESSORIES IN ACCORDANCE WITH ASTM C919.
D. INSTALL JOINT BACKING TO MAINTAIN REQUIRED SEALER DIMENSIONS. COMPRESS BACKING APPROXIMATELY 25 PERCENT WITHOUT PUNCTURING SKIN. DO NOT TWIST OR STRETCH.
E. USE BONDBREAKER TAPE WHERE JOINT BACKING IS NOT INSTALLED.
F. FILL JOINTS FULL WITHOUT AIR POCKETS, EMBEDDED MATERIALS, RIDGES, AND SAGS.
G. TOOL SEALER TO SMOOTH PROFILE.
H. APPLY SEALER WITHIN MANUFACTURER'S RECOMMENDED TEMPERATURE RANGE.

3.3 CLEANING

A. REMOVE MASKING TAPE AND PROTECTIVE COVERINGS AFTER SEALER HAS CURED.
B. CLEAN ADJACENT SURFACES.

3.4 SCHEDULE

INTERIOR JOINTS:

JOINT LOCATION OR TYPE	SEALER TYPE
JOINTS IN TOILET ROOMS AND COUNTERTOPS	2
JOINTS IN ACOUSTICAL ASSEMBLIES	3
ALL OTHER JOINTS	1

ella DESIGN
Oella Design
728 Marianne Lane
Catonsville, Maryland 21228
301.466.1884

JUDGE'S CHAMBER'S #6
HOWARD COUNTY
DISTRICT COURTHOUSE
3451 COURTHOUSE DRIVE
ELLICOTT CITY, MARYLAND 21043

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Expiration Date: 2/3/18

project number
16024
project description
JUDGE'S CHAMBERS
scale
1" = 1'-0"
drawn by
WMC
checked by
WMC
owner
MARYLAND JUDICIARY
contractor
TBD

drawing date
03/17/17
revision date
#	date	description

sheet title
SPECIFICATIONS

sheet number
A0.02

SECTION 081113- HOLLOW METAL FRAMES

1.1 SUMMARY

A. SECTION INCLUDES: HOLLOW STEEL FRAMES.

1.2 REFERENCES

A. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)/STEEL DOOR INSTITUTE (SDI) (WWW.STEELDOOR.ORG):
1. A250.3 - TEST PROCEDURE AND ACCEPTANCE CRITERIA FOR FACTORY APPLIED FINISHED PAINTED STEEL FOR STEEL DOORS AND FRAMES.
2. A250.4 - TEST PROCEDURE AND ACCEPTANCE CRITERIA FOR PHYSICAL ENDURANCE FOR STEEL DOORS, FRAMES, FRAME ANCHORS AND HARDWARE REINFORCINGS.
3. A250.8 - RECOMMENDED SPECIFICATIONS FOR STANDARD STEEL DOORS AND FRAMES.
4. A250.10 - TEST PROCEDURE AND ACCEPTANCE CRITERIA FOR PRIME PAINTED STEEL SURFACES FOR STEEL DOORS AND FRAMES.
5. A250.11 - RECOMMENDED ERECTION INSTRUCTIONS FOR STEEL FRAMES.

B. ASTM INTERNATIONAL (ASTM) (WWW.ASTM.ORG):
1. A653/A653M - STANDARD SPECIFICATION FOR STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON ALLOY COATED (GALVANNEALED) BY THE HOT-DIP PROCESS.
2. A924 - STANDARD SPECIFICATION FOR GENERAL REQUIREMENTS FOR STEEL SHEET, METALLIC-COATED BY THE HOT-DIP PROCESS.
3. A1008/A1008M - STANDARD SPECIFICATION FOR STEEL, SHEET, COLD-ROLLED, CARBON, STRUCTURAL, HIGH-STRENGTH LOW-ALLOY AND HIGH-STRENGTH LOW-ALLOY WITH IMPROVED FORMABILITY.
4. C518 - STANDARD TEST METHOD FOR STEADY STATE THERMAL TRANSMISSION PROPERTIES BY MEANS OF THE HEAT FLOW METER APPARATUS.
5. E413 - CLASSIFICATION FOR RATING SOUND INSULATION.

C. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) (WWW.NFPA.ORG) 80 - STANDARD FOR FIRE DOORS AND FIRE WINDOWS.
D. STEEL DOOR INSTITUTE (SDI) (WWW.STEELDOOR.ORG) 117 - MANUFACTURING TOLERANCES FOR STANDARD STEEL DOORS AND FRAMES.
E. UNDERWRITERS LABORATORIES (UL) (WWW.UL.COM):
1. 10B - STANDARD FOR FIRE TESTS OF DOOR ASSEMBLIES.

1.3 QUALITY ASSURANCE

A. FRAMES: ANSI/SDI A250.8, GRADE II - HEAVY DUTY.
B. FIRE DOOR AND FRAME CONSTRUCTION: CONFORM TO UL 10B.
C. INSTALLED FIRE RATED DOOR AND FRAME ASSEMBLIES: CONFORM TO NFPA 80.
D. ACOUSTIC DOOR AND FRAME ASSEMBLIES: MINIMUM STC RATING OF [__], MEASURED IN ACCORDANCE WITH ASTM E413.

1.4 DELIVERY, STORAGE AND HANDLING

A. SHIP DOOR FRAMES WITH REMOVABLE ANGLE SPREADER; DO NOT REMOVE UNTIL FRAME IS INSTALLED.
B. STORE DOORS UPRIGHT IN PROTECTED, DRY AREA, OFF GROUND OR FLOOR, WITH AT LEAST 1/4 INCH SPACE BETWEEN INDIVIDUAL UNITS.
C. DO NOT COVER WITH NON VENTED COVERINGS THAT CREATE EXCESSIVE HUMIDITY.
D. REMOVE WET COVERINGS IMMEDIATELY.

2.1 MANUFACTURERS

A. ACCEPTABLE MANUFACTURERS:
1. CECO DOOR. (WWW.CECODOOR.COM)
2. CURRIES. (WWW.CURRIES.COM)
3. PIONEER INDUSTRIES, INC. (WWW.PIONEERINDUSTRIES.COM)
4. STEELCRAFT. (WWW.STEELCRAFT.COM)

2.2 MATERIALS

A. STEEL SHEET:
1. ASTM A1008/1008M, COLD ROLLED.

2.3 FABRICATION

A. FABRICATE FRAMES IN ACCORDANCE WITH ANSI/SDI A250.8.
B. FABRICATE FRAMES FROM STEEL SHEET.
C. FRAMES:
1. FABRICATE FROM MINIMUM 16 GAGE SHEETS.
2. PROVIDE SELF ALIGNING TABS AND SLOTS TO HOLD CORNERS IN ALIGNMENT.
3. ANCHORS:
a. PROVIDE ONE ANCHOR AT EACH JAMB FOR EACH 30 INCHES OF DOOR HEIGHT.
b. DESIGN ANCHORS TO PROVIDE POSITIVE FASTENINGS TO ADJACENT CONSTRUCTION.
c. PROVIDE ONE FLOOR ANCHOR WELDED TO EACH JAMB.

D. ACCURATELY FORM TO REQUIRED SIZES AND PROFILES.
E. GRIND AND DRESS EXPOSED WELDS TO FORM SMOOTH, FLUSH SURFACES.
F. DO NOT USE METALLIC FILLER TO CONCEAL MANUFACTURING DEFECTS.
G. FABRICATE WITH INTERNAL REINFORCEMENT FOR HARDWARE WELD IN PLACE.
H. DESIGN CLEARANCES:
1. BETWEEN DOOR AND FRAME: MAXIMUM 1/8 INCH.
2. BETWEEN MEETING EDGES OF PAIRS OF DOORS:
a. NON-FIRE RATED DOORS: 3/16 INCH PLUS OR MINUS 1/16 INCH.
b. FIRE-RATED DOORS: 1/8 INCH PLUS OR MINUS 1/16 INCH.
3. UNDERCUT:
a. NON-FIRE RATED DOORS: MAXIMUM 3/4 INCH.
b. FIRE-RATED DOORS: COMPLY WITH NFPA 80.
4. BETWEEN FACE OF DOOR AND STOP: 1/16 TO 3/32 INCH.

I. MANUFACTURING TOLERANCES: IN ACCORDANCE WITH SDI-117.

2.4 FINISHES

A. DRESS TOOL MARKS AND SURFACE IMPERFECTIONS TO SMOOTH SURFACES.
B. CLEAN AND CHEMICALLY TREAT STEEL SURFACES.
C. APPLY MANUFACTURER'S STANDARD RUST INHIBITING PRIMER PAINT, AIR-DRIED OR BAKED ON, MEETING REQUIREMENTS OF ANSI/SDI A250.10.

3.1 INSTALLATION

A. INSTALL DOORS AND FRAMES IN ACCORDANCE WITH ANSI/SDI A250.11.
B. SET PLUMB AND LEVEL.
C. SECURE TO ADJACENT CONSTRUCTION USING FASTENER TYPE BEST SUITED TO APPLICATION.
D. INSTALL HARDWARE IN ACCORDANCE WITH SECTION 087100.

3.2 ADJUSTING

A. TOUCH UP MINOR SCRATCHES AND ABRASIONS IN PRIMER PAINT TO MATCH FACTORY FINISH.

END OF SECTION

SECTION 081416- FLUSH WOOD DOORS

1.1 SUMMARY

A. SECTION INCLUDES:
1. WOOD VENEER FACED FLUSH DOORS.
2. FACTORY FINISHING.

1.2 REFERENCES

A. ARCHITECTURAL WOODWORK INSTITUTE/ARCHITECTURAL WOODWORK MANUFACTURERS OF CANADA/WOODWORK INSTITUTE (AWI/AWMAC/WI) (WWW.AWINET.ORG) (WWW.AWMAC.COM) (WWW.WOODWORKINSTITUTE.COM) - ARCHITECTURAL WOODWORK STANDARDS.
B. ASTM INTERNATIONAL (ASTM) (WWW.ASTM.ORG) E90 - STANDARD TEST METHOD FOR MEASUREMENT OF AIRBORNE-SOUND TRANSMISSION LOSS OF BUILDING PARTITIONS.
C. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) (WWW.NFPA.ORG) 80 - STANDARD FOR FIRE DOORS AND FIRE WINDOWS.
D. UNDERWRITERS LABORATORIES (UL) (WWW.UL.COM):
1. 10B - STANDARD FOR FIRE TESTS OF DOOR ASSEMBLIES.

1.3 SUBMITTALS

A. SAMPLES: 4 INCH X 4 INCH X ¼ INCH SWATCH IN MANUFACTURERS FULL RANGE OF CLEAR FINISH COLORS; SPECIES AND CUT TO MATCH EXISTING

1.4 QUALITY ASSURANCE

A. FIRE DOOR CONSTRUCTION: CONFORM TO UL 10B.
B. INSTALLED FIRE RATED DOOR ASSEMBLY: CONFORM TO NFPA 80.

1.5 DELIVERY, STORAGE AND HANDLING

A. PACKAGE DOORS IN HEAVY PLASTIC WITH IDENTIFYING MARKS; SLIT PLASTIC WRAP ON SITE TO PERMIT VENTILATION, BUT DO NOT REMOVE FROM PLASTIC UNTIL READY TO INSTALL.
B. DO NOT DELIVER DOORS UNTIL BUILDING IS SUBSTANTIALLY WATER AND WEATHER TIGHT.
C. STORE DOORS FLAT AND LEVEL, WITH SPACERS BETWEEN DOORS TO ALLOW FOR AIR CIRCULATION, IN PROTECTED, DRY AREA.
D. ENVIRONMENTAL REQUIREMENTS: MAINTAIN FOLLOWING CONDITIONS IN BUILDING FOR MINIMUM 7 DAYS PRIOR TO, DURING, AND AFTER INSTALLATION OF DOORS:
1. TEMPERATURE: 60 TO 80 DEGREES F.
2. HUMIDITY: 25 TO 55 PERCENT.

2.1 MANUFACTURERS

A. ACCEPTABLE MANUFACTURERS:
1. EGGERS INDUSTRIES. (WWW.EGGERSINDUSTRIES.COM)
2. VT INDUSTRIES, INC. (WWW.VTINDUSTRIES.COM)
3. MOHAWK INDUSTRIES, INC. (WWW.MOHAWKDOORS.COM)

2.2 MATERIALS

A. FLUSH WOOD DOORS:
1. AWI/AWMAC/WI ARCHITECTURAL WOODWORK STANDARDS, SECTION 9.
2. CORE TYPE:
a. SOLID, FIRE RATED: FIRE-RESISTANT COMPOSITE CORE.
b. SOLID, NON RATED: PARTICLEBOARD.
3. WOOD VENEERS FACES: MATCH EXISTING SPECIES AND CUT, OF QUALITY SUITABLE FOR MATCHING FINISH
4. LOUVERS: SOLID WOOD, OF SPECIES AND CUT TO MATCH FACE VENEERS, STRAIGHT 45 DEGREE SLAT PROFILE.

2.3 FABRICATION

A. FABRICATE DOORS IN ACCORDANCE WITH AWI/AWMAC/WI ARCHITECTURAL WOODWORK STANDARDS, SECTION 9.
1. GRADE: CUSTOM.
2. PERFORMANCE LEVEL: HEAVY DUTY.
3. EDGE TYPE: SOLID WOOD.

B. PREMACHINING: MACHINE DOORS AT FACTORY TO RECEIVE HARDWARE

2.4 FINISHES

A. FACTORY FINISHING:
1. FACTORY FINISH DOORS IN ACCORDANCE WITH AWI/AWMAC/WI ARCHITECTURAL WOODWORK STANDARDS, SECTION 5.
2. FINISH SYSTEM: MATCH EXISTING COLOR AND SHEEN

3.1 PREPARATION

A. CONDITION DOORS TO AVERAGE HUMIDITY THAT WILL BE ENCOUNTERED AFTER INSTALLATION.

3.2 INSTALLATION

A. INSTALL DOORS IN ACCORDANCE WITH AWI/AWMAC/WI ARCHITECTURAL WOODWORK STANDARDS.
B. INSTALL DOORS PLUMB AND LEVEL.
C. FIELD FITTING TO FRAMES:
1. FIRE AND ACOUSTIC RATED DOORS:
a. WIDTH: CUT LOCK EDGE ONLY; 3/16 INCH MAXIMUM.
b. HEIGHT: CUT BOTTOM EDGE ONLY; 1 INCH MAXIMUM.
2. NON-RATED DOORS:
a. WIDTH: CUT HINGE AND LOCK EDGES EQUALLY.
b. HEIGHT: CUT BOTTOM EDGE ONLY; MAXIMUM 3/4 INCH.
3. EDGE CLEARANCES:
a. JAMBS AND HEAD: 1/8 INCH MAXIMUM BETWEEN DOOR AND FRAME.
b. SILLS WITHOUT THRESHOLDS: 1/2 INCH MAXIMUM BETWEEN DOOR AND TOP OF FINISH FLOOR.
c. SILLS WITH THRESHOLDS: 1/2 INCH MAXIMUM BETWEEN DOOR AND TOP OF THRESHOLD.
d. MEETING STILES OF PAIRS: 1/8 INCH MAXIMUM BETWEEN DOORS.
4. LOCK EDGE: BEVEL 1/8 INCH IN 2 INCHES.
5. DO NOT CUT DOORS DOWN TO OPENING SIZES SMALLER THAN THOSE FOR WHICH THEY WERE MANUFACTURED.

END OF SECTION

SECTION 09220- METAL SUPPORT ASSEMBLIES

1.1 SUMMARY

A. SECTION INCLUDES:
1. METAL STUD INTERIOR PARTITION FRAMING.
2. METAL INTERIOR WALL FURRING.
3. SUSPENDED METAL CHANNEL CEILING FRAMING.

1.2 REFERENCES
A. ASTM INTERNATIONAL (ASTM) (WWW.ASTM.ORG):
1. A591/A591M - STANDARD SPECIFICATION FOR STEEL SHEET, ELECTROLYTIC ZINC- COATED, FOR LIGHT COATING WEIGHT (MASS) APPLICATIONS.
2. A641 - STANDARD SPECIFICATION FOR ZINC-COATED (GALVANIZED) CARBON STEEL WIRE.
3. A653/A653M - STANDARD SPECIFICATION FOR STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON ALLOY COATED (GALVANNEALED) BY THE HOT-DIP PROCESS.
4. A1003/A1003M - STANDARD SPECIFICATION FOR STEEL SHEET, CARBON, METALLIC- AND NONMETALLIC-COATED FOR COLD-FORMED FRAMING MEMBERS.
5. C635 - STANDARD SPECIFICATION FOR METAL SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANEL CEILINGS.
6. C636 - STANDARD PRACTICE FOR INSTALLATION OF METAL CEILING SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANELS.
7. C645 - STANDARD SPECIFICATION FOR NON-LOAD (AXIAL) BEARING STEEL STUDS, RUNNERS (TRACK), AND RIGID FURRING CHANNELS FOR SCREW APPLICATION OF GYPSUM BOARD.
8. C754 - STANDARD PRACTICE FOR INSTALLATION OF STEEL FRAMING MEMBERS TO RECEIVE SCREW-ATTACHED GYPSUM WALL BOARD, BACKING BOARD, OR WATER-RESISTANT BACKING BOARD.
9. E90 - STANDARD TEST METHOD FOR AIRBORNE SOUND TRANSMISSION LOSS OF BUILDING PARTITIONS.
10. E413 - STANDARD TEST METHOD FOR CLASSIFICATION FOR RATING SOUND INSULATION.

B. GYPSUM ASSOCIATION (GA) (WWW.GYPSUM.ORG) GA-600 - FIRE RESISTANCE DESIGN MANUAL.
C. STEEL FRAMING INDUSTRY ASSOCIATION (SFIA) (WWW.SFIA.MEMBERCLICKS.NET) - MEMBER DIRECTORY.
D. STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA) (WWW.SSMA.COM) - MEMBER DIRECTORY.
E. UNDERWRITERS LABORATORIES, INC. (UL) (WWW.UL.COM) - FIRE RESISTANCE DIRECTORY.

1.3 QUALITY ASSURANCE

A. FIRE RESISTANCE RATINGS:
1. CONSTRUCT ASSEMBLIES TO ACHIEVE FIRE RESISTANCE RATINGS INDICATED ON DRAWINGS, IN ACCORDANCE WITHUL DESIGN NUMBER.
2. IF REQUIREMENTS OF ASSEMBLY NUMBERS REFERENCED CONFLICT WITH CONTRACT DOCUMENT REQUIREMENTS, CONFORM TO ASSEMBLY REQUIREMENTS.

B. ACOUSTIC RATINGS: CONSTRUCT ASSEMBLIES TO ACHIEVE ACOUSTIC RATINGS INDICATED ON DRAWINGS, TESTED TO ASTM E90 AND CLASSIFIED IN ACCORDANCE WITH ASTM E413.
C. DEFLECTION LIMITS:
1. LIMIT DEFLECTION OF PARTITIONS TO FOLLOWING LIMITS, BASED ON 5 PSF UNIFORM DESIGN LOAD.
a. PARTITIONS TO RECEIVE TILE:[L/240.
b. OTHER PARTITIONS: L/120.
c. IF PARTITION HEIGHT EXCEEDS STUD MANUFACTURER'S LIMITING HEIGHT FOR APPLICABLE LOADING AND DEFLECTION, INSTALL BRACING ABOVE CEILING, DECREASE STUD SPACING, OR INCREASE STUD GAGE.
2. LIMIT DEFLECTION OF CEILINGS TO L/360.

2.1 MANUFACTURERS

A. ACCEPTABLE MANUFACTURERS:
1. CLARK DIETRICH.
2. USG.
3. MARINOWARE.
4. SCAFCO

2.2 MATERIALS

A. STEEL: ASTM A653/A653M OR ASTM A1003/1003M, CLASS G40 HOT DIP GALVANIZED.

2.3 COMPONENTS

A. PROVIDE COMPONENTS IN ACCORDANCE WITH ASTM C645.
B. STUDS: NON-LOAD BEARING ROLL-FORMED STEEL, SSMA STUD PROFILE, C-SHAPED, PUNCHED FOR UTILITY ACCESS.
C. TOP AND BOTTOM TRACKS:
1. SAME MATERIAL AND FINISH AS STUDS, C-SHAPED.
2. STANDARD TRACK: SSMA STUD TRACK PROFILE, 1-1/2 INCH LEGS.
3. DEFLECTION TRACK: STANDARD TRACK WITH SLOTTED SCREW HOLES; PERMIT PLUS OR MINUS 1/2 INCH MOVEMENT OF OVERHEAD STRUCTURE WITHOUT DAMAGE TO PARTITION.

D. SUSPENDED CEILING FRAMING:
1. RUNNER CHANNELS: 1-1/2 INCHES DEEP, COLD ROLL FORMED, CHANNEL SHAPED, 16 GAGE BASE STEEL THICKNESS.
2. FURRING CHANNELS: HAT SHAPED, 7/8 INCH DEEP, 25 GAGE BASE STEEL THICKNESS.

2.4 ACCESSORIES

A. FASTENERS: 3/8 INCH LONG SELF-TAPPING PAN HEAD SCREWS.
B. WIRE: ASTM A 641, GALVANIZED STEEL.
1. HANGER WIRE: 8 GAGE BASE STEEL THICKNESS.
2. TIE WIRE: 18 GAGE BASE STEEL THICKNESS, SOFT ANNEALED.

C. WALL FURRING BRACKETS: GALVANIZED STEEL, TWO PIECE ADJUSTABLE TYPE.
D. FURRING CHANNEL CLIPS: GALVANIZED STEEL.

3.1 INSTALLATION OF PARTITION FRAMING

A. INSTALL IN ACCORDANCE WITH ASTM C754 AND MANUFACTURER'S INSTRUCTIONS.
B. ATTACH TOP AND BOTTOM TRACKS AT ENDS AND 24 INCHES ON CENTER MAXIMUM.
C. POSITION STUDS VERTICALLY IN TRACKS, SPACED MAXIMUM 24 INCHES ON CENTER UNLESS INDICATED OTHERWISE.
D. INSTALL DEFLECTION TRACK AT HEAD OF PARTITIONS EXTENDING TO STRUCTURE. CUT STUDS 1/2 INCH SHORTER THAN REQUIRED LENGTH AND FIT INTO TOP TRACK. FASTEN STUDS TO TOP TRACK IN MANNER PERMITTING TRACK MOVEMENT.
E. LOCATE STUDS MAXIMUM 2 INCHES FROM DOOR FRAMES AND ABUTTING CONSTRUCTION.
F. USE DOUBLE STUDS ON BOTH SIDES OF OPENINGS IN PARTITIONS.
G. INSTALL HORIZONTAL TRACK AS HEADER ABOVE OPENINGS IN PARTITIONS. INSTALL STUDS FROM HEADER TO TOP TRACK.
H. BRACE FURRED PARTITIONS WITH ADJUSTABLE BRACKET LOCATED AT MID HEIGHT.
I. PROVIDE WOOD OR METAL BRACING IN PARTITIONS TO RECEIVE AND SUPPORT FIXTURES, TRIM, ACCESSORIES AND OTHER APPLIED ITEMS.
J. BRACE CEILING HEIGHT PARTITIONS TO STRUCTURE AT 48 INCHES ON CENTER MAXIMUM.

SECTION 09220- CONT'D

3.3 INSTALLATION OF RESILIENT FURRING

A. INSTALL CHANNELS PERPENDICULAR TO FRAMING SPACED MAXIMUM 16 INCHES ON CENTER. LOCATE CHANNELS WITHIN 2 INCHES OF FLOOR AND WITHIN 6 INCHES OF CEILING.
B. SCREW ATTACH CHANNELS TO EACH SUPPORT.
C. OVERLAP CHANNELS MINIMUM 2 INCHES AT SPLICES, CENTERED OVER FRAMING MEMBER. SCREW ATTACH TO FRAMING MEMBER THROUGH BOTH FLANGES.

3.4 INSTALLATION OF WALL FURRING

A. INSTALL IN ACCORDANCE WITH ASTM C754 AND MANUFACTURER'S INSTRUCTIONS.
B. SPACE CHANNELS 24 INCHES ON CENTER MAXIMUM AND WITHIN 3 INCHES OF CORNERS; SECURE AT MAXIMUM 24 INCHES ON CENTER WITH FASTENERS STAGGERED ON ALTERNATING FLANGES.
C. NEST CHANNELS MINIMUM 8 INCHES AT SPLICES; SECURE WITH TWO FASTENERS IN EACH FLANGE.

END OF SECTION

SECTION 092900- GYPSUM BOARD

1.1 SUMMARY

A. SECTION INCLUDES:
1. ACOUSTICAL INSULATION.
2. GYPSUM BOARD.
3. TAPING AND BEDDING OF GYPSUM BOARD.

1.2 REFERENCES

A. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) (WWW.ANSI.ORG):
1. A108.11 - INTERIOR INSTALLATION OF CEMENTITIOUS BACKER UNITS.
2. A118.9 - TEST METHODS AND SPECIFICATIONS FOR CEMENTITIOUS BACKER UNITS.

B. ASTM INTERNATIONAL (ASTM) (WWW.ASTM.ORG):
1. C475 - STANDARD SPECIFICATION FOR JOINT COMPOUND AND JOINT TAPE FOR FINISHING GYPSUM BOARD.
2. C514 - STANDARD SPECIFICATION FOR NAILS FOR THE APPLICATION OF GYPSUM WALLBOARD.
3. C665 - STANDARD SPECIFICATION FOR MINERAL FIBER BLANKET THERMAL INSULATION FOR WOOD FRAME AND LIGHT CONSTRUCTION BUILDINGS.
4. C1002 - STANDARD SPECIFICATION FOR STEEL DRILL SCREWS FOR THE APPLICATION OF GYPSUM BOARD.
5. C1047 - STANDARD SPECIFICATIONS FOR ACCESSORIES FOR GYPSUM WALLBOARD AND GYPSUM VENEER BASE.
6. C1178 - STANDARD SPECIFICATION FOR GLASS MAT WATER-RESISTANT GYPSUM BACKING PANEL.
7. C1396 - STANDARD SPECIFICATION FOR GYPSUM BOARD.
8. C1629 - STANDARD CLASSIFICATION FOR ABUSE-RESISTANT NONDECORATED INTERIOR GYPSUM PANEL PRODUCTS AND FIBER-REINFORCED CEMENT PANELS.
9. D3273 - STANDARD TEST METHOD FOR RESISTANCE TO GROWTH OF MOLD ON THE SURFACE OF INTERIOR COATINGS IN AN ENVIRONMENTAL CHAMBER.
10. E90 - STANDARD TEST METHOD FOR AIRBORNE SOUND TRANSMISSION LOSS OF BUILDING PARTITIONS.
11. E413 - STANDARD TEST METHOD FOR CLASSIFICATION FOR RATING SOUND INSULATION.

C. GYPSUM ASSOCIATION (GA) (WWW.GYPSUM.ORG):
1. GA-214 - LEVELS OF GYPSUM BOARD FINISH.
2. GA-216 - RECOMMENDED SPECIFICATIONS FOR THE APPLICATION AND FINISHING OF GYPSUM BOARD.
3. GA-600 - FIRE RESISTANCE DESIGN MANUAL.

D. UNDERWRITERS LABORATORIES, INC. (UL) (WWW.UL.COM) - FIRE RESISTANCE DIRECTORY.

1.3 QUALITY ASSURANCE

A. FIRE RESISTANCE RATINGS:
1. CONSTRUCT ASSEMBLIES TO ACHIEVE FIRE RESISTANCE RATINGS INDICATED ON DRAWINGS, IN ACCORDANCE WITH APPLICABLE UL DESIGN NUMBER.
2. IF REQUIREMENTS OF ASSEMBLY NUMBERS REFERENCED CONFLICT WITH CONTRACT DOCUMENT REQUIREMENTS, CONFORM TO ASSEMBLY REQUIREMENTS.

B. ACOUSTIC RATINGS: CONSTRUCT ASSEMBLIES TO ACHIEVE ACOUSTIC RATINGS INDICATED ON DRAWINGS, TESTED TO ASTM E90 AND CLASSIFIED IN ACCORDANCE WITH ASTM E413.

1.4 PROJECT CONDITIONS

A. DO NOT INSTALL GYPSUM BOARD UNLESS BUILDING IS SUBSTANTIALLY WEATHERTIGHT.
B. MAINTAIN TEMPERATURE IN SPACES IN WHICH WORK IS BEING PERFORMED ABOVE 50 DEGREES F DURING AND AFTER INSTALLATION.

2.1 MANUFACTURERS

A. ACCEPTABLE MANUFACTURERS - GYPSUM PANELS:
1. CERTAINTEED GYPSUM, INC. (WWW.CERTAINTEED.COM)
2. GP GYPSUM CORPORATION. (WWW.GP.COM)
3. NATIONAL GYPSUM CO. (WWW.NATIONALGYPSUM.COM)
4. USG CORPORATION. (WWW.USG.COM)

2.2 MATERIALS - GYPSUM PANELS

A. REGULAR GYPSUM BOARD: ASTM C1396; 48 INCHES WIDE X 5/8 INCH THICK, MAXIMUM PRACTICAL LENGTH, TAPERED EDGE.
B. FIRE RESISTANT GYPSUM BOARD: ASTM C1396, TYPE X; 48 INCHES WIDE X 5/8 INCH THICK, MAXIMUM PRACTICAL LENGTH, TAPERED EDGE; APPLY TO FIRE RATED ASSEMBLIES.
C. WATER RESISTANT GYPSUM BOARD: ASTM C1396; 48 INCHES WIDE X 5/8 INCH THICK, MAXIMUM PRACTICAL LENGTH, WATER RESISTANT; APPLY TO WALLS TO RECEIVE TILE, SANITARY WALL PANELS, WALLS AT JANITOR CLOSETS, AND WALLS CONCEALING PRESSURIZED AND NON-PRESSURIZED PIPING SYSTEMS.
D. FIRE RESISTANT, WATER RESISTANT GYPSUM BOARD: ASTM C1396, TYPE X; 48 INCHES WIDE X 5/8 INCH THICK, MAXIMUM PRACTICAL LENGTH, WATER RESISTANT; APPLY TO FIRE RATED WALLS TO RECEIVE TILE, SANITARY WALL PANELS, WALLS AT JANITOR CLOSETS, AND WALLS CONCEALING PRESSURIZED AND NON-PRESSURIZED PIPING SYSTEMS.

2.3 ACCESSORIES

A. FASTENERS: ASTM C1002, TYPE W OR S SCREWS, MINIMUM 5/8 INCH PENETRATION INTO FRAMING.
B. ACOUSTICAL INSULATION:
1. ASTM C665, TYPE I, GLASS FIBER COMPOSITION, UNFACED.
2. FREE FROM UREA-FORMALDEHYDE RESINS, PHENOL, ACRYLICS, AND ARTIFICIAL COLORS.

C. ADHESIVE:
1. TYPE RECOMMENDED BY GYPSUM PANEL MANUFACTURER.

D. TRIM ACCESSORIES: ASTM C1047.
1. MATERIAL: FORMED STEEL, MINIMUM 26 GAGE CORE STEEL, HOT DIP GALVANIZED FINISH, EXPANDED FLANGES.
2. CORNER REINFORCEMENT: GA-216, TYPE CB-100 X 100.
3. CASING: GA-216, TYPE LC.
4. CONTROL JOINT.

E. ACOUSTICAL SEALER: SPECIFIED IN SECTION 079200.
F. JOINT TREATMENT MATERIALS:
G. REINFORCING TAPE AND JOINT COMPOUND; ASTM C475.

SECTION 092900- CONT'D

3.1 INSTALLATION OF GYPSUM PANELS

A. INSTALL PANELS AND ACCESSORIES IN ACCORDANCE WITH ASTM C754, GA-216, AND MANUFACTURER'S INSTRUCTIONS.
B. ACCURATELY CUT PANELS TO FIT AROUND OPENINGS AND PROJECTIONS. DO NOT TEAR FACE PAPER OR BREAK GYPSUM CORE.
C. APPLY PANELS AT NON FIRE-RATED ASSEMBLIES IN MOST ECONOMICAL MANNER, WITH ENDS AND EDGES OCCURRING OVER SUPPORTS.
D. APPLY PANELS AT FIRE-RATED ASSEMBLIES AS REQUIRED BY DESIGN ASSEMBLY.
E. STAGGER JOINTS ON OPPOSITE SIDES OF PARTITIONS.
F. DO NOT LOCATE JOINTS TO ALIGN WITH EDGES OF OPENINGS UNLESS A CONTROL JOINT IS INSTALLED.
G. MECHANICALLY FASTEN [SINGLE LAYER] PANELS TO FRAMING. PLACE FASTENERS MINIMUM 3/8 INCH FROM EDGES OF PANELS; DRIVE HEADS SLIGHTLY BELOW SURFACE. STAGGER FASTENERS AT ABUTTING EDGES.
H. APPLY FACE LAYER OF DOUBLE LAYER APPLICATIONS WITH JOINTS OFFSET FROM THOSE IN BASE LAYER; SECURE WITH MECHANICAL FASTENERS TO FRAMING OR WITH ADHESIVE TO BASE LAYER.
I. AT DEFLECTION COMPENSATING HEAD TRACKS, CUT PANELS 1/2 INCH SHORT OF STRUCTURE AT HEAD; DO NOT SECURE PANELS TO TOP RUNNER CHANNEL.
J. TREAT CUT EDGES AND HOLES IN MOISTURE RESISTANT GYPSUM BOARD WITH JOINT SEALER.
K. WHERE RECESSED ITEMS OCCUR IN FIRE RATED PARTITIONS, BOX ITEM ON ALL SIDES WITH GYPSUM BOARD AS REQUIRED TO MAINTAIN CONTINUITY OF FIRE RATING.

3.2 INSTALLATION OF ACOUSTICAL PARTITIONS

A. EXTEND ACOUSTICAL PARTITIONS PAST INTERSECTING NON-ACOUSTICAL PARTITIONS.
B. INSTALL ACOUSTICAL INSULATION:
1. BUTT TO FRAMING MEMBERS AND ADJACENT CONSTRUCTION.
2. CARRY AROUND PIPES, WIRING, OUTLETS, AND OTHER CONSTRUCTION WITHOUT VOIDS.
3. PRESS AGAINST ONE GYPSUM BOARD SURFACE TO FORM SLIGHT AIR SPACE ON OPPOSITE SIDE.

C. SEAL ACOUSTICAL PARTITIONS AT PERIMETER AND AROUND PENETRATIONS:
1. APPLY CONTINUOUS BEAD OF SEALER BETWEEN GYPSUM PANEL EDGES AND ADJACENT CONSTRUCTION.
2. SEAL SPACE BETWEEN GYPSUM PANELS AT CONTROL JOINTS, PRIOR TO INSTALLING METAL CONTROL JOINT.
3. APPLY SEALER TO PENETRATIONS THROUGH PARTITIONS.

3.3 INSTALLATION OF ACOUSTICAL INSULATION ABOVE CEILINGS

A. INSTALL ACOUSTICAL INSULATION IN CONTINUOUS LAYER. BUTT TIGHTLY TO ADJACENT INSULATION AND TO OTHER CONSTRUCTION.
B. CARRY OVER PIPES, WIRING, BOXES, AND OTHER CONSTRUCTION WITHOUT VOIDS.

3.4 INSTALLATION OF ACCESSORIES

A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. INSTALL CORNER REINFORCEMENT AT OUTSIDE CORNERS. USE SINGLE LENGTHS WHERE LENGTH OF CORNER DOES NOT EXCEED STANDARD LENGTH.
C. INSTALL CASINGS WHERE INDICATED AND WHERE GYPSUM BOARD ABUTS DISSIMILAR MATERIALS OR STOPS WITH EDGE EXPOSED.
D. INSTALL CONTROL JOINTS AT CEILINGS:
1. AT MAXIMUM 30 FEET ON CENTER.
2. WHERE CEILING FRAMING CHANGES DIRECTION.

E. INSTALL CONTROL JOINTS AT WALLS AND PARTITIONS:
1. AT CHANGES IN BACKUP MATERIAL.
2. AT MAXIMUM 30 FEET ON CENTER.

3.5 JOINT TREATMENT

A. TREAT JOINTS AND FASTENERS IN GYPSUM BOARD IN ACCORDANCE WITH GA-214.
B. LEVELS OF FINISH:
1. SURFACES IN PLENUMS SERVICE CORRIDORS JANITOR CLOSETS: LEVEL 1 FINISH.
2. SURFACES TO RECEIVE TILE, STONE OR OTHER CERAMIC VENEER: LEVEL 2 FINISH.
3. SURFACES TO RECEIVE FLAT PAINTS, EGGSHELL PAINTS, OR WALL COVERINGS: LEVEL 4 FINISH.
4. SURFACES TO RECEIVE SEMI-GLOSS PAINTS, GLOSS PAINTS OR RESILIENT COATINGS: LEVEL 5 FINISH.

END OF SECTION

SECTION 093000- TILING

1.1 SUMMARY

A. SECTION INCLUDES:
1. CERAMIC PORCELAIN TILE FLOOR AND WALL FINISHES.
2. MARBLE THRESHOLDS.

1.2 REFERENCES

A. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI): (WWW.ANSI.ORG)
1. A108/A118/A136.1 - AMERICAN NATIONAL STANDARD FOR INSTALLATION OF CERAMIC TILE.
2. A137.1 - SPECIFICATIONS FOR CERAMIC TILE.

B. ASTM INTERNATIONAL (ASTM) (WWW.ASTM.ORG):
1. A82/A82M - STANDARD SPECIFICATION FOR STEEL WIRE, PLAIN, FOR CONCRETE REINFORCEMENT.
2. A185/A185M - STANDARD SPECIFICATION FOR WELDED STEEL WIRE REINFORCEMENT, PLAIN, FOR CONCRETE.
3. C144 - STANDARD SPECIFICATION FOR AGGREGATE FOR MASONRY MORTAR.
4. C150 - STANDARD SPECIFICATION FOR PORTLAND CEMENT.
5. C207 - STANDARD SPECIFICATION FOR HYDRATED LIME FOR MASONRY PURPOSES.
6. C847 - STANDARD SPECIFICATION FOR METAL LATH.
7. D226 - STANDARD SPECIFICATION FOR ASPHALT SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING.
8. D227 - STANDARD SPECIFICATION FOR COAL-TAR SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING.
9. D4263 - STANDARD TEST METHOD FOR INDICATING MOISTURE IN CONCRETE BY THE PLASTIC SHEET METHOD.
10. D4397 - STANDARD SPECIFICATION FOR POLYETHYLENE SHEETING FOR CONSTRUCTION, INDUSTRIAL AND AGRICULTURAL APPLICATIONS.

C. TILE COUNCIL OF NORTH AMERICA (TCNA) (WWW.TILEUSA.COM) - HANDBOOK FOR CERAMIC, GLASS AND STONE TILE INSTALLATION.
D. RESILIENT FLOOR COVERING INSTITUTE (RFCI) (WWW.RFCI.COM) - FLOORSCORE CERTIFICATION PROGRAM.

1.3 SUBMITTALS

A. SUBMITTALS FOR REVIEW:
1. SAMPLES:
a. TILE: FULL SIZE SAMPLES IN EACH COLOR AND SHAPE.
b. GROUT: 1/2 X 1/2 X 3 INCH LONG SAMPLES SHOWING AVAILABLE COLORS.

SECTION 093000- CONT'D

1.4 QUALITY ASSURANCE

A. TILE AND TRIM UNITS: MEET ANSI A137.1, STANDARD GRADE.
B. DYNAMIC STATIC COEFFICIENT OF FRICTION FOR FLOOR TILE: MINIMUM [0.42,] [__,] TESTED IN ACCORDANCE WITH ANSI A137.1 USING BOT-3000 TRIBOMETER.

1.5 DELIVERY, STORAGE AND HANDLING

A. DELIVER MORTAR, ADHESIVE, AND GROUT CONTAINERS BEARING HALLMARK CERTIFYING COMPLIANCE WITH REFERENCE STANDARDS.
B. PROTECT ADHESIVE CONTAINERS FROM FREEZING AND OVERHEATING ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

1.6 PROJECT CONDITIONS

A. ENVIRONMENTAL REQUIREMENTS: MAINTAIN MINIMUM AMBIENT TEMPERATURE OF 50 DEGREES F DURING AND AFTER INSTALLATION.

1.7 MAINTENANCE

A. EXTRA MATERIALS: ONE UNOPENED CARTON OF EACH TILE.

2.1 MANUFACTURERS

A. ACCEPTABLE MANUFACTURERS - TILE:
1. BASIS OF DESIGN: DAL-TILE CORP. (WWW.DALTILEPRODUCTS.COM)
2. ALTERNATE: AMERICAN OLEAN TILE CO., INC. (WWW.AOTILE.COM)

B. ACCEPTABLE MANUFACTURERS - SETTING AND GROUTING MATERIALS:
1. BASF CORPORATION. (WWW.BUILDINGSYSTEMS.BASF.COM)
2. BOSTIK, INC. (WWW.BOSTIK-US.COM)
3. LATICRETE INTERNATIONAL, INC. (WWW.LATICRETE.COM)
4. MAPEI CORPORATION. (WWW.MAPEI.US)
5. TEC. (WWW.TECSPECIALTY.COM)

2.2 MATERIALS

A. TILE:
1. SIZE AND COLOR: AS INDICATED ON DRAWINGS
2. SUBJECT TO ACCEPTANCE BY THE ARCHITECT- EQUIVALENT SIZE AND COLOR PROVIDED BY MANUFACTURER ALTERNATE.

2.3 ACCESSORIES

A. LATEX-PORTLAND CEMENT MORTAR: ANSI A118.4, POLYMER MODIFIED DRY SET TYPE.
B. DRY SET PORTLAND CEMENT MORTAR: ANSI A118.1, POLYMER MODIFIED DRY SET TYPE.
C. EPOXY ADHESIVE:
1. ANSI A118.3, THIN SET BOND TYPE.

D. PORTLAND CEMENT: ASTM C150, TYPE 1, WHITE COLOR.

E. SAND: ASTM C144, CLEAN, FREE OF ORGANIC MATTER.
F. LIME: ASTM C207, TYPE S, HYDRATED.
G. WATER: CLEAN, POTABLE.
H. GROUT:
1. ANSI A118.6, POLYMER MODIFIED TYPE, UNSANDED. A118.3, EPOXY TYPE.
2. COLOR: TO BE SELECTED FROM MANUFACTURER'S FULL COLOR RANGE.

I. THRESHOLDS: CLASS A WHITE MARBLE, HONED FINISH, BEVELED BOTH SIDES, RADIUSED FROM BEVELS TO VERTICAL PLANES, ONE PIECE FOR FULL WIDTH OF DOOR OR OPENING.
J. JOINT SEALERS: SPECIFIED IN SECTION 079200.
K. WATERPROOF MEMBRANE: LOAD BEARING, SINGLE COMPONENT, COLD LIQUID APPLIED TYPE, WITH REINFORCING FABRIC OR REINFORCED SELF-ADHERING SHEET TYPE.
L. CRACK SUPPRESSION MEMBRANE: ANSI A118.12, LOAD BEARING, SINGLE COMPONENT, COLD LIQUID APPLIED TYPE WITH REINFORCING FABRIC, OR REINFORCED SELF-ADHERING SHEET TYPE,STANDARD PERFORMANCE CLASS.
M. SOUND CONTROL UNDERLAYMENT: LOAD BEARING, SINGLE COMPONENT, COLD LIQUID APPLIED TYPE, WITH REINFORCING FABRIC, OR REINFORCED SELF-ADHERING SHEET TYPE, SHOCK AND VIBRATION RESISTANT.

3.1 PREPARATION

A. CLEAN SURFACES TO REMOVE LOOSE AND FOREIGN MATTER THAT COULD IMPAIR ADHESION.
B. REMOVE RIDGES AND PROJECTIONS. FILL VOIDS AND DEPRESSIONS WITH PATCHING COMPOUND COMPATIBLE WITH SETTING MATERIALS.
C. ALLOWABLE SUBSTRATE TOLERANCES:
1. THIN SET METHOD:
a. MAXIMUM VARIATION IN SUBSTRATE SURFACE: 1/8 INCH IN 8 FEET.
b. MAXIMUM HEIGHT OF ABRUPT IRREGULARITIES: 1/32 INCH.

D. TEST CONCRETE SUBSTRATE TO ASTM D4263; DO NOT INSTALL TILE UNTIL SURFACES ARE SUFFICIENTLY DRY.

3.2 INSTALLATION

A. INSTALL [CRACK SUPPRESSION MEMBRANE] [WATERPROOF MEMBRANE] [SOUND CONTROL UNDERLAYMENT] IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. METHODS:
1. WALLS: ANSI A108.6, THIN SET WITH EPOXY ADHESIVE.
2. FLOORS: ANSI A108.6, THIN SET WITH EPOXY ADHESIVE OVER CLEAVAGE MEMBRANE.

C. MINIMIZE PIECES LESS THAN ONE HALF SIZE. LOCATE CUTS TO BE INCONSPICUOUS.
D. LAY TILE TO PATTERN SHOWN ON DRAWINGS. DO NOT INTERRUPT TILE PATTERN THROUGH OPENINGS.
E. JOINT WIDTH: 1/16 INCH, PLUS OR MINUS 1/32 INCH.
F. MAKE JOINTS WATERTIGHT, WITHOUT VOIDS, CRACKS, EXCESS MORTAR, OR EXCESS GROUT. ALIGN JOINTS IN WALL AND FLOOR OF SAME-SIZED TILE.
G. FIT TILE AROUND PROJECTIONS AND AT PERIMETER. SMOOTH AND CLEAN CUT EDGES. ENSURE THAT TRIM WILL COMPLETELY COVER CUT EDGES.
H. INSTALL TRIM:
1. INSIDE CORNERS: COVE UNITS.
2. OUTSIDE CORNERS: BEAD UNITS.
3. BASE: BASE UNITS.
4. EXPOSED TILE ENDS: BULLNOSE UNITS.

I. INSTALL THRESHOLDS WHERE TILE ABUTS DISSIMILAR FLOOR FINISH. CENTER ON DOOR OR OPENING.
J. ALLOW TILE TO SET FOR A MINIMUM OF 48 HOURS BEFORE GROUTING.
K. GROUT TILE JOINTS IN ACCORDANCE WITH ANSI A108.10 WITHOUT EXCESS GROUT.
L. CONTROL JOINTS:
1. PROVIDE CONTROL JOINTS AT:
a. CHANGES IN BACKUP MATERIAL.
b. CHANGES IN PLANE.
c. OVER JOINTS IN SUBSTRATE.
d. MAXIMUM 32 FEET ON CENTER AT INTERIOR LOCATIONS EXCEPT MAXIMUM 12 FEET AT SURFACES EXPOSED TO DIRECT SUNLIGHT.
2. FORM JOINTS PER TCNA METHOD EJ-171.
3. INSTALL JOINT BACKING AND JOINT SEALER AS SPECIFIED IN SECTION 079200.

3.3 ADJUSTING

A. REMOVE AND REPLACE PIECES THAT HAVE BEEN DAMAGED DURING INSTALLATION.

3.4 PROTECTION

A. PROVIDE PROTECTION FOR COMPLETED WORK USING NONSTAINING SHEET COVERINGS.
B. PROHIBIT TRAFFIC ON TILE FLOORS FOR MINIMUM 3 DAYS AFTER INSTALLATION.

END OF SECTION

DESIGN
ella
Oella Design
728 Marianne Lane
Catonsville, Maryland 21228
301.466.1884

JUDGE'S CHAMBER'S #6
HOWARD COUNTY
DISTRICT COURTHOUSE
3451 COURTHOUSE DRIVE
ELLICOTT CITY, MARYLAND 21043

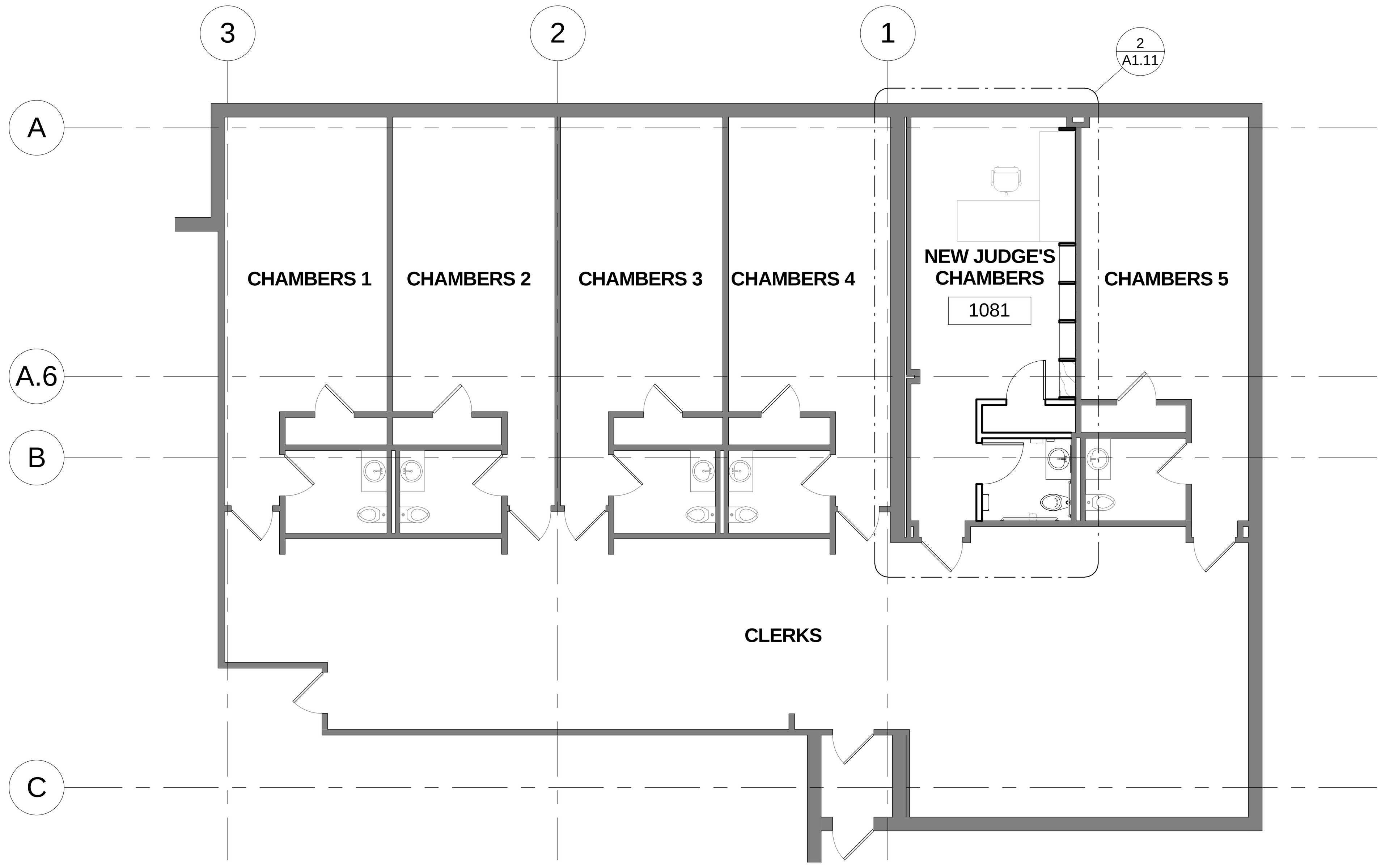
I certify that these documents were prepared or approved by me, and that I am a duly licensed architect under the laws of the State of Maryland
License Number: [illegible]
Expiration Date: [illegible]

project number
16024
project description
JUDGE'S CHAMBERS
scale
1" = 1'-0"
drawn by
Author
checked by
Checker
owner
MARYLAND JUDICIARY
contractor
TBD

drawing date
03/17/17
revision date
date description

sheet title
SPECIFICATIONS

sheet number
A0.03



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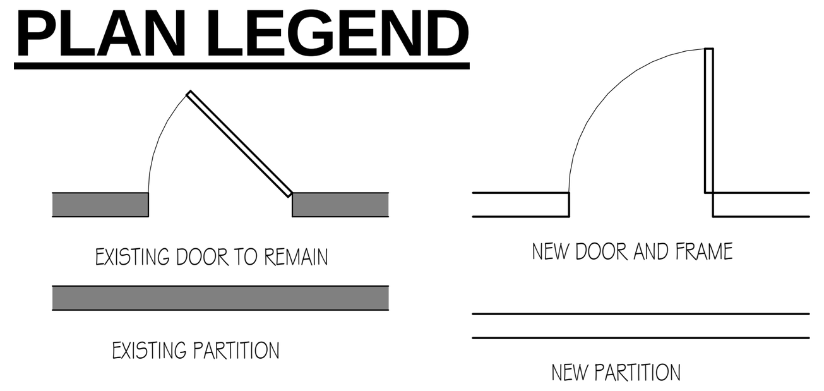
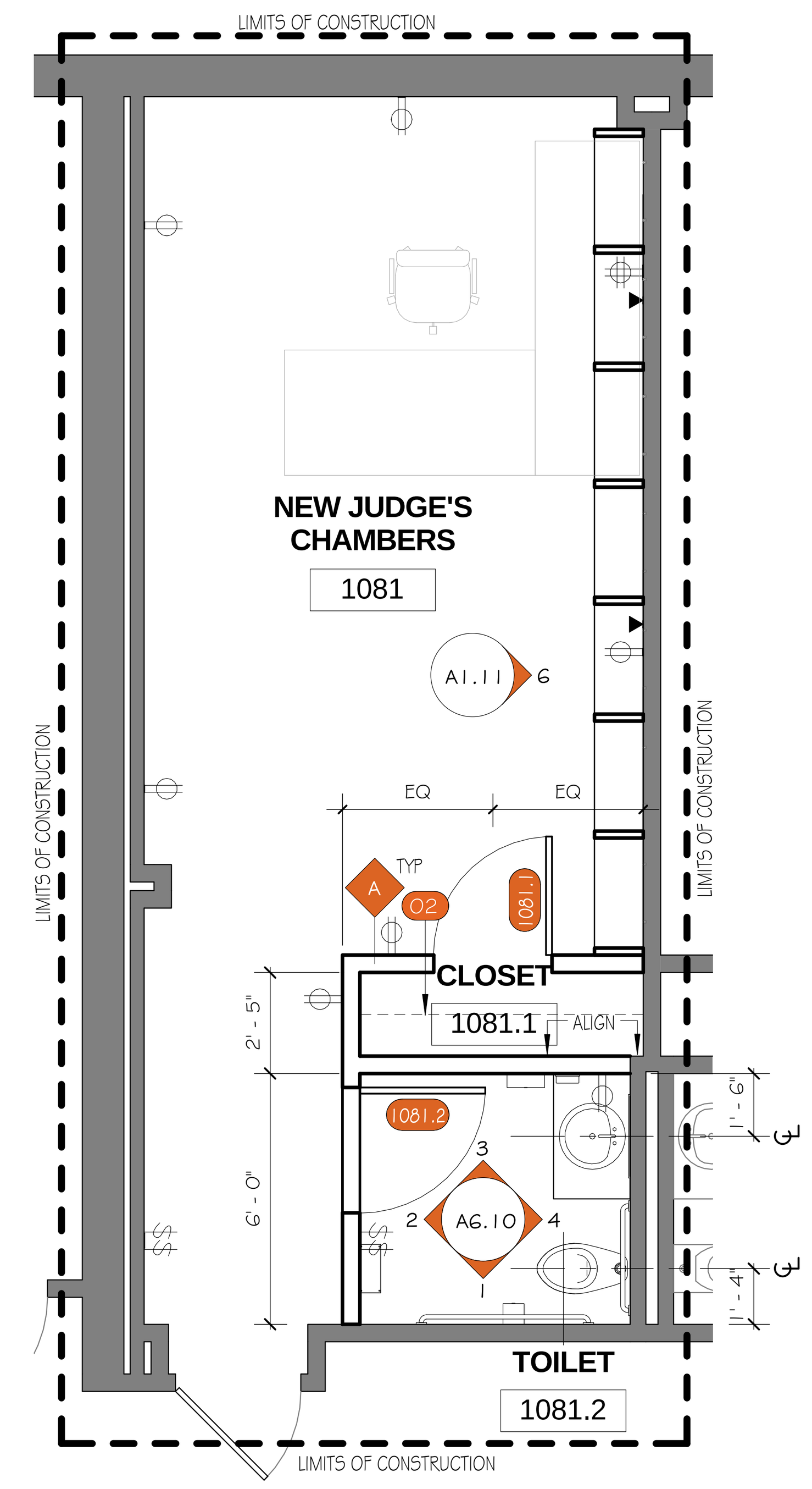
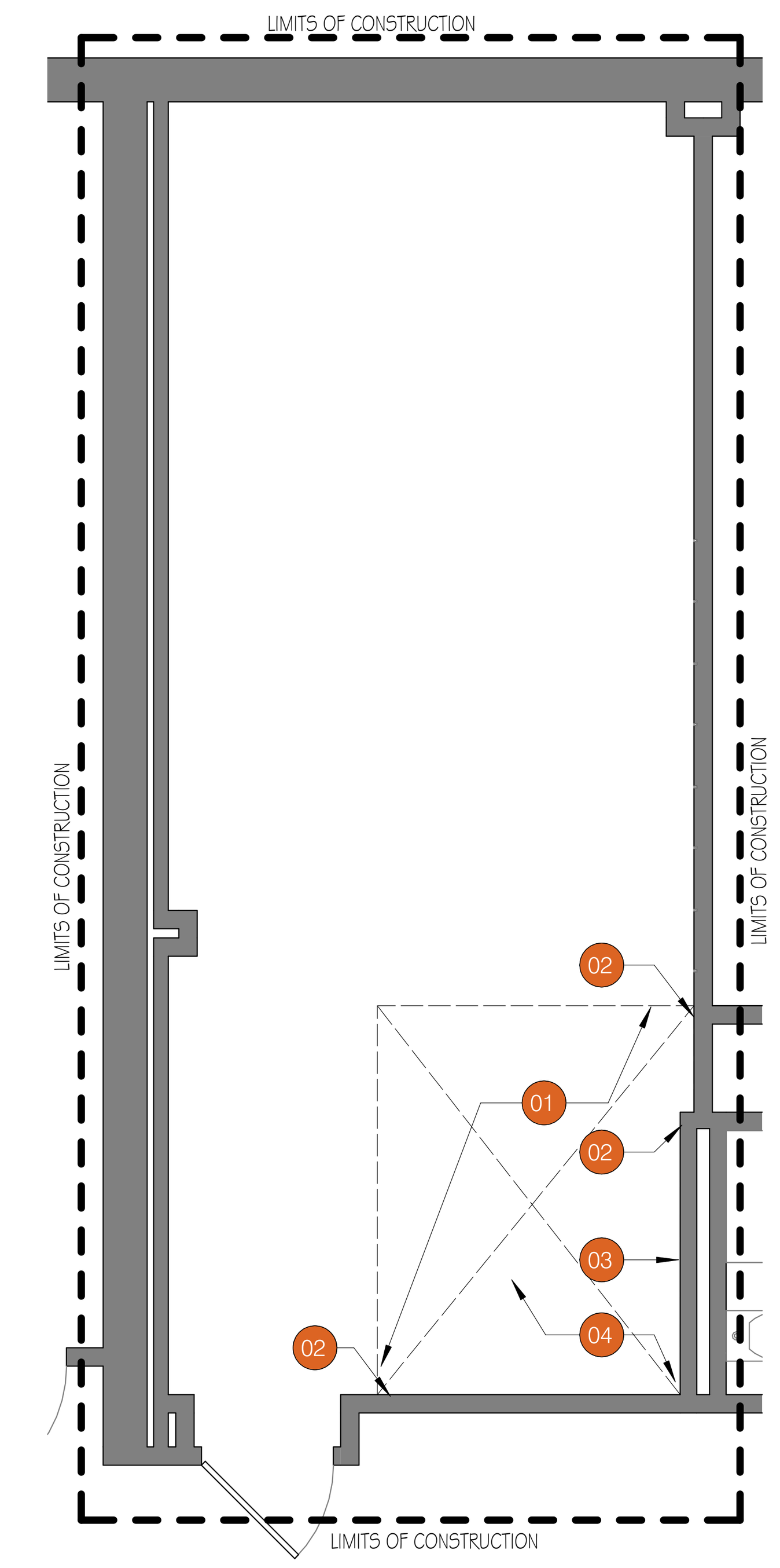


1 A1.11 FIRST FLOOR- JUDGE'S CHAMBERS
1/8" = 1'-0"

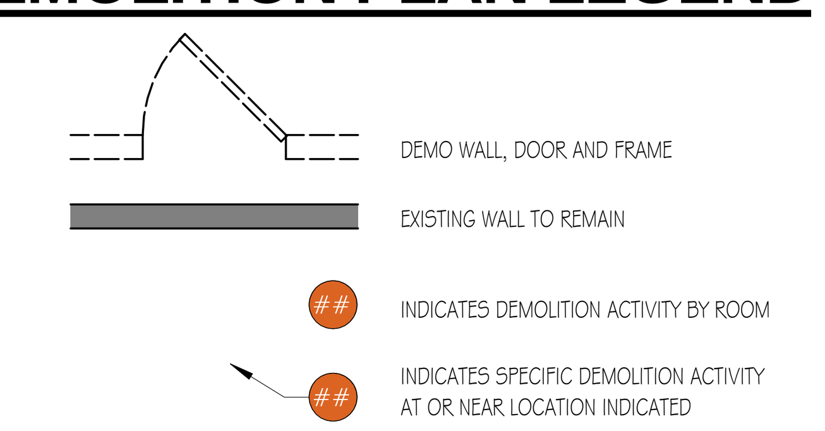


2 A1.11 FIRST FLOOR- NEW WORK
1/4" = 1'-0"



3 A1.11 FIRST FLOOR- DEMOLITION
1/4" = 1'-0"

DEMOLITION PLAN LEGEND



DEMOLITION KEYED NOTES

01 DEMO EXISTING CARPET; PREPARE SUBSTRATE FOR INSTALLATION OF NEW TILE FLOOR; SALVAGE CARPET REMANT FOR RE-INSTALLATION IN CLOSET
02 SAW CUT WALL AS REQUIRED FOR INSTALLATION OF NEW WALL PARTITION; INSTALL STEEL STUDS IN EXISTING WALL TO MAKE CONNECTION
03 DEMO GYPSUM BOARD WALL AS REQUIRED FOR INSTALLATION OF NEW PLUMBING AND PIPING
04 DEMO EXISTING SLAB ON GRADE AS REQUIRED TO MAKE NEW SANITARY CONNECTION
05 DEMO CEILING TILES, GRIDS AND CEILING MOUNTED ITEMS; SALVAGE CEILING TILE FOR RE-USE IN FINISHED CEILING

DEMOLITION NOTES:

A. OBTAIN ALL REQUIRED PERMITS FROM THE AUTHORITY HAVING JURISDICTION PRIOR TO COMMENCING DEMOLITION WORK.

B. ALL ITEMS INDICATED WITH A DASHED LINE ARE TO BE REMOVED, UNO.

C. DEMOLITION DOCUMENTS INDICATE THE GENERAL EXTENT OF WORK. ADDITIONAL DEMOLITION MAY BE REQUIRED TO ACCOMMODATE COORDINATION OF THE WORK. PERFORM SELECTIVE DEMOLITION FOR WORK SHOWN ELSEWHERE IN THE CONTRACT DOCUMENTS THAT REQUIRES DEMOLITION NOT SHOWN ON DEMOLITION DRAWINGS. SUCH WORK SHALL INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING:

D. COORDINATE DEMOLITION AND PROVIDE TEMPORARY FACILITIES AND BARRIERS AS REQUIRED TO MAINTAIN PROJECT SITE IN A SECURE AND SAFE CONDITION AT ALL TIMES.

E. DIVERT DEMOLISHED MATERIAL FROM LANDFILL DISPOSAL TO THE GREATEST EXTENT POSSIBLE. DELIVER ALL RECYCLABLE DEMOLISHED MATERIAL TO A QUALIFIED RECYCLING AGENT. SEGREGATE ALL BRICK, BLOCK, CONCRETE, CEMENT, STONE, ASPHALT AND MACADAM FOR COLLECTION AND DELIVERY TO A QUALIFIED RECYCLING AGENT.

F. REMOVE EXISTING NON-STRUCTURAL ELEMENTS WITHIN THE PROJECT SITE EXCEPT WHERE INDICATED BY NOTE OR SYMBOL AS EXISTING TO REMAIN. SEE MEP DRAWINGS FOR EXTENT OF MEP DEMOLITION.

G. DEMOLITION DRAWING SHOWS GENERAL EXTENT OF REQUIRED WORK. REMOVE FIXTURES, FITTINGS, DEVICES, ETC. REQUIRED TO PREPARE THE PROJECT SITE TO RECEIVE NEW WORK. SEE NEW WORK DRAWINGS FOR ADDITIONAL INFORMATION.

H. PERFORM SELECTIVE DEMOLITION FOR WORK SHOWN ELSEWHERE IN THE CONTRACT DOCUMENTS THAT REQUIRES DEMOLITION NOT SHOWN ON DEMOLITION DRAWINGS. SUCH WORK SHALL INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING:
1. CORE DRILLING, CONC CUTTING AND REMOVAL OF WALLS AND SLABS AS NECESSARY TO INSTALL MECHANICAL, ELECTRICAL AND PLUMBING WORK. REFER TO MEP DRAWINGS TO COORDINATE REQUIRED DEMOLITION WORK.
2. REMOVE & REINSTALL SUSPENDED ATC CEILING AS REQUIRED TO PERFORM MEP WORK. SEE MEP DRAWINGS FOR EXTENT OF ABOVE CEILING WORK.

I. RESTORE FIRE SEPARATION CONSTRUCTION TO FULL CAPACITY AS SOON AS POSSIBLE AFTER DEMOLITION ACTIVITIES THAT COMPROMISE THEIR INTEGRITY.

J. PROVIDE TEMPORARY BRACING REQUIRED TO SUPPORT BUILDING ELEMENTS TO REMAIN AND REQUIRED TO MAINTAIN THE PROJECT SITE IN A SAFE CONDITION.

K. ALL ITEMS INDICATED WITH A DASHED LINE ARE TO BE REMOVED UNO.

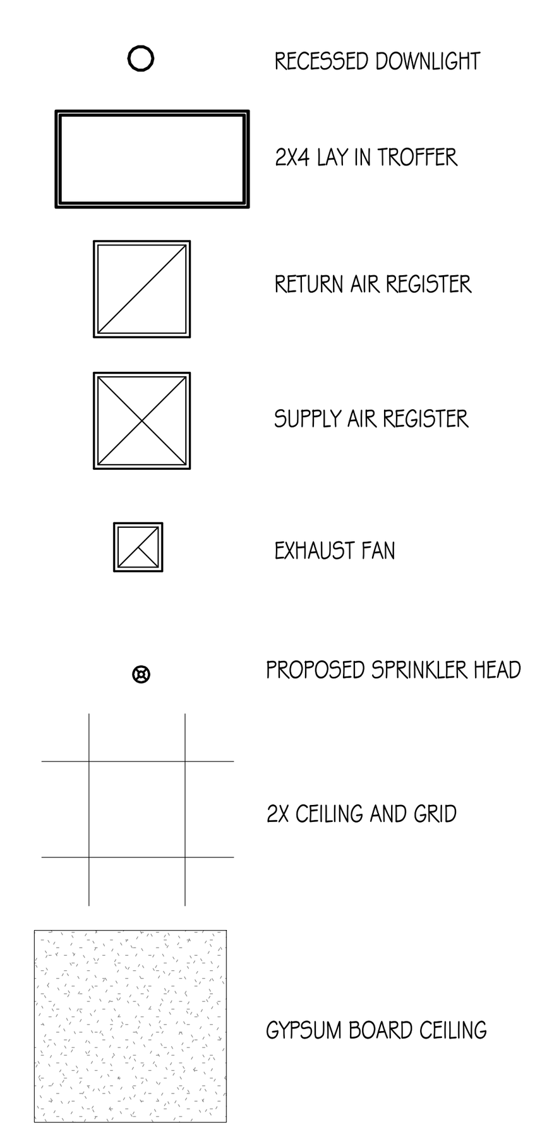
L. MAINTAIN CLEAR ACCESS CORRIDORS TO BUILDING EXITS SERVING OCCUPIED AREAS OUTSIDE AREA OF DEMOLITION AT ALL TIMES.

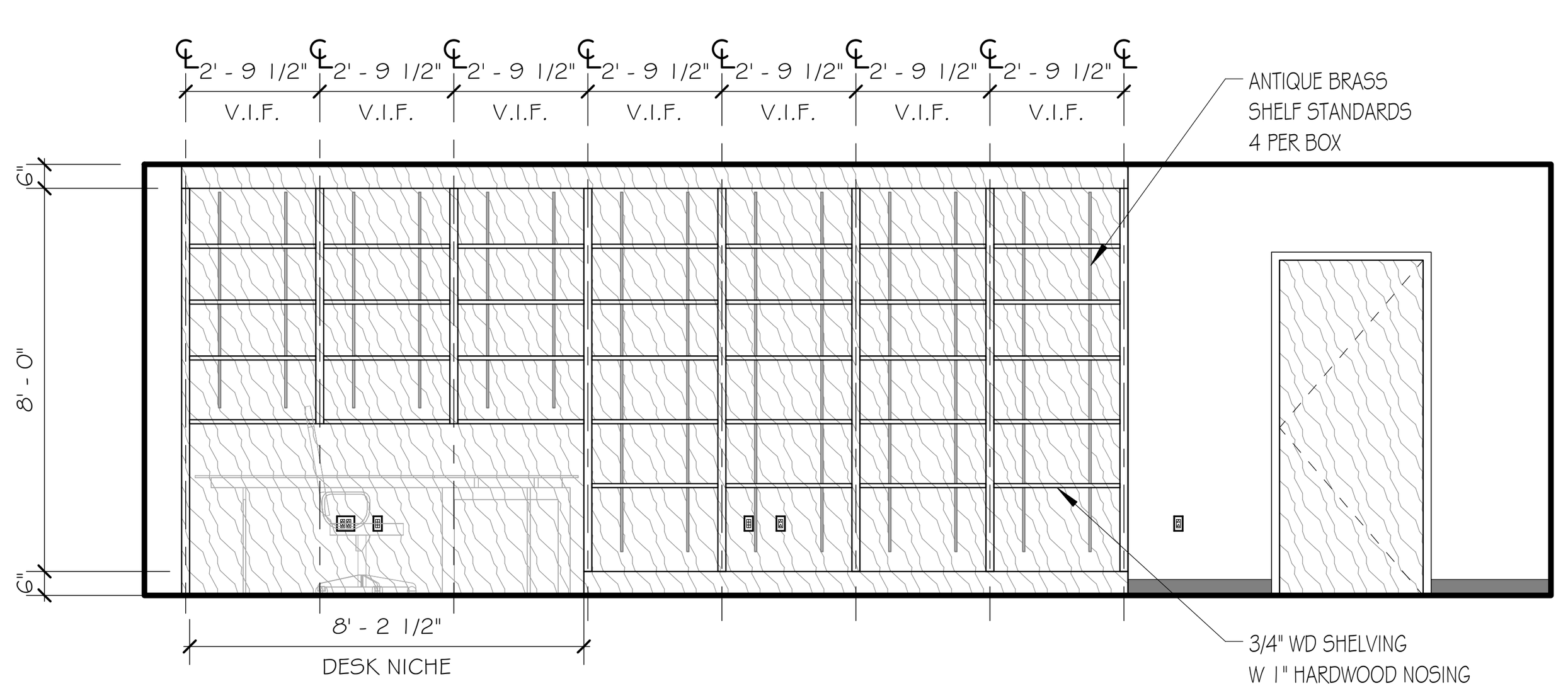
M. PERFORM NON-DESTRUCTIVE TESTING (GROUND PENETRATING RADAR) ON ELEVATED SLABS OR OTHER STRUCTURAL CONCRETE ELEMENTS REQUIRING PENETRATION TO DETERMINE LOCATION OF REINFORCING BARS AND OTHER ITEMS EMBEDDED IN THE STRUCTURAL DECK. PERFORM WORK TO AVOID CUTTING EMBEDDED REINFORCING BARS AND OTHER EMBEDDED ITEMS. IF REBAR OR OTHER EMBEDDED ITEMS CANNOT BE AVOIDED, OBTAIN APPROVAL OF ARCHITECT OR ENGINEER OF RECORD BEFORE CUTTING OR DRILLING.

KEYED NOTES XX

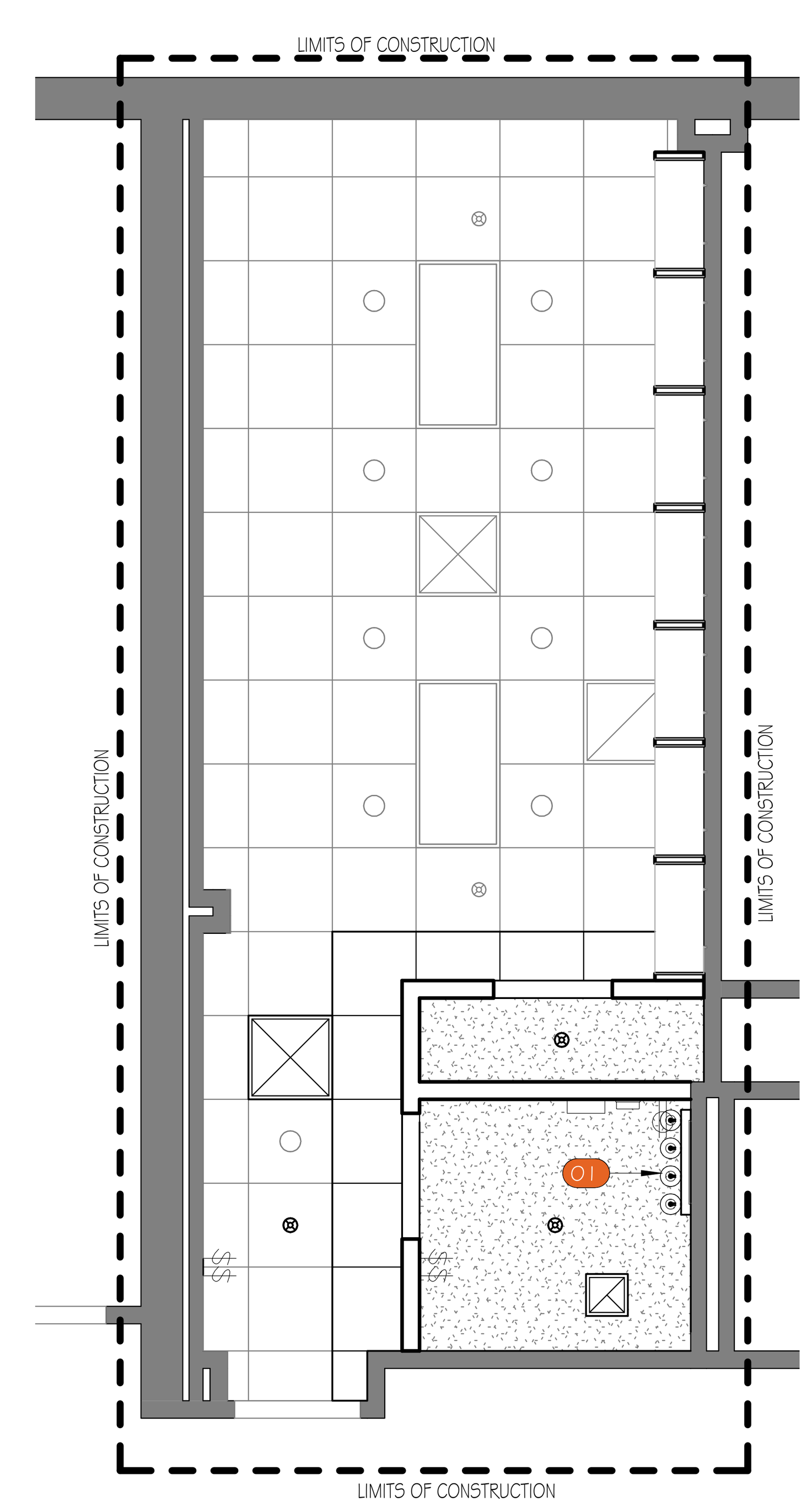
01 PROVIDE MULTI HEAD VANITY FIXTURE: ALLOWANCE NOT TO EXCEED $250
02 PROVIDE 1.25" WD CLOSET ROD AND 1" PAINTED WOOD SHELF

RCP LEGEND

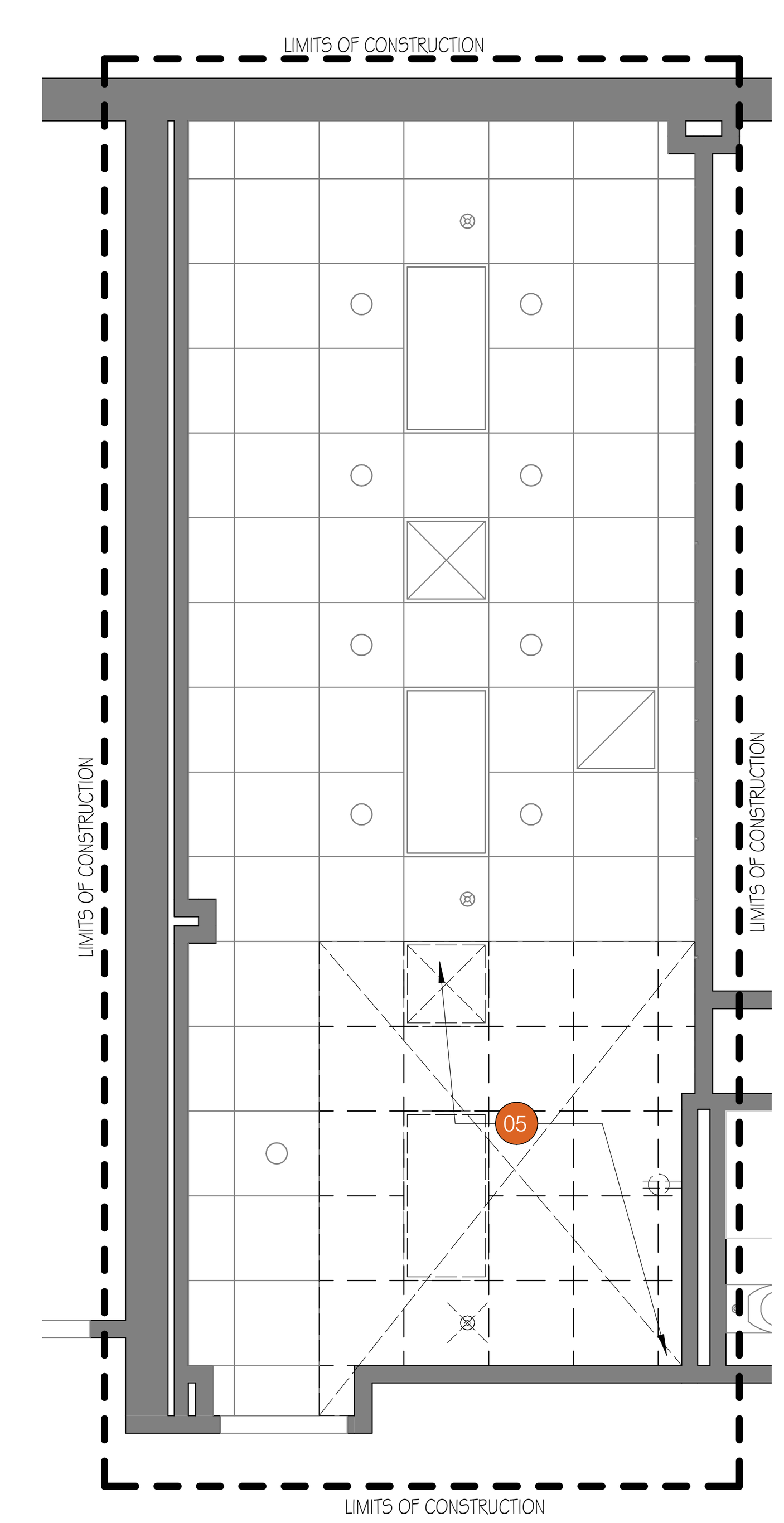




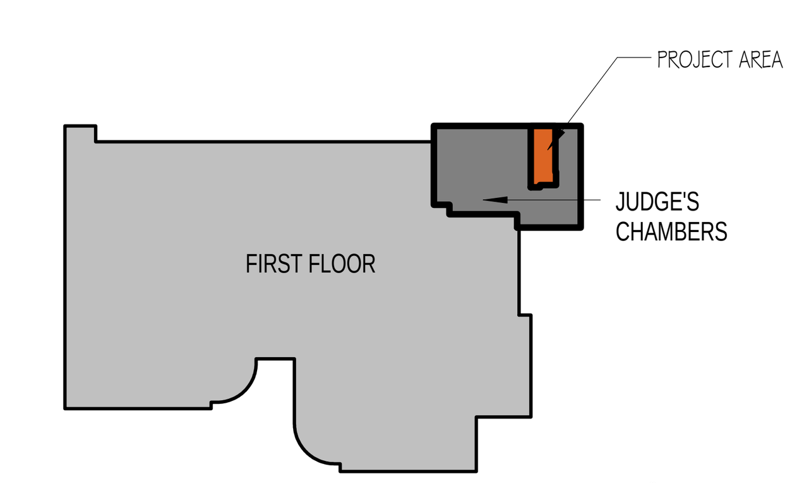
6 A1.11 BOOKSHELVES
1/4" = 1'-0"



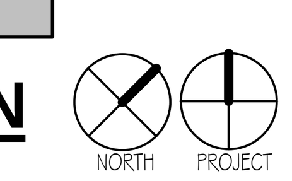
4 A1.11 FIRST FLOOR- RCP- NEW WORK
1/4" = 1'-0"



5 A1.11 FIRST FLOOR- RCP- DEMO
1/4" = 1'-0"



KEY PLAN



oella DESIGN
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JUDGE'S CHAMBER'S #6 HOWARD COUNTY DISTRICT COURTHOUSE

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ELLICOTT CITY, MARYLAND 21043

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 number
16024
project description
JUDGE'S CHAMBERS
scale
As indicated
drawn by
WMC
checked by
WMC
owner
MARYLAND JUDICIARY
contractor
TBD

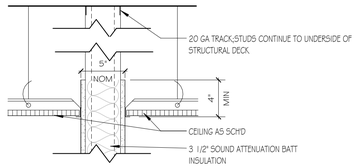
drawing date
03/17/17
revision date
date description

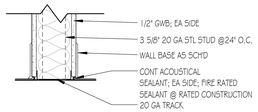
sheet title
FLOOR PLANS

sheet number
A1.11

PARTITION SCHEDULE

TYPE	THICKNESS	HEIGHT	FINISH CONSTRUCTION			STUD OR FURRING MATERIAL				FIRE AND SMOKE		ACOUSTICS		NOTES
			MATERIAL	TAG SIDE	OTHER SIDE	MATERIAL	PROFILE	DEPTH	GAGE	FIRE RATING	UL	STC	MATERIAL	
A	4 7/8"	UNDERSIDE OF DECK	GWB	GWB	GWB	STL	C	3 5/8"	20	-	-		SAFB	





TYPE A

FINISH SCHEDULE

RM NUMBER	ROOM	FLOOR	BASE	WALLS				CEILING		NOTES
				NORTH	SOUTH	EAST	WEST	CEILING	FINISH	
FIRST FLOOR										
1081	NEW JUDGE'S CHAMBERS	CPT-1	VB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	-	
1081.1	CLOSET	CPT-1	VB-1	PT-1	PT-1	PT-1	PT-1	GWB	PT-1	
1081.2	TOILET	CT-1,2	CT-2	PT-2	PT-2	PT-2	PT-2	GWB	PT-2	

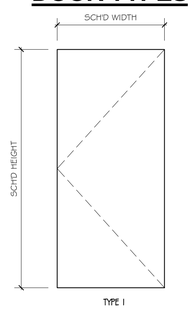
FINISH SCHEDULE LEGEND

ABBREVIATION	MANUFACTURER	PRODUCT DESCRIPTION	COLOR	COMMENTS
ACOUSTICAL CEILING TILE				
ACT-1	ARMSTRONG	2X2 TEGULAR W/ 9/16" GRID	MATCH EXISTING	
CARPET				
CPT-1	MATCH EXISTING	BROADLOOM	MATCH EXISTING	
CERAMIC TILE				
CT-1	DAL-TILE- KEYSTONES	2X2 BORDER AND BASE	TBD	
CT-2	DAL-TILE- KEYSTONES	2X2 FIELD	TBD	
PAINT				
PT-1	BENJAMIN MOORE	EGGSHELL ACRYLIC	MATCH EXISTING	
PT-2	BENJAMIN MOORE	SEMI-GLOSS ARYLIC	TBD	
PT-3	BENJAMIN MOORE	SEMI-GLOSS EPOXY	TBD	ALL DOOR FRAMES
VINYL BASE				
VB-1	JOHNSONITE	4" COVE BASE	MATCH EXISTING	

DOOR SCHEDULE

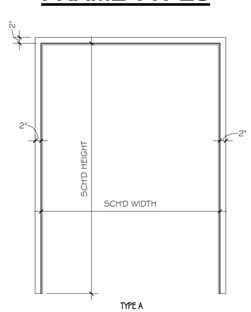
QUANTITY	TAG	WIDTH	HEIGHT	THICKNESS	DOOR			FRAME			DETAILS		FIRE RATING	HDW SET	NOTES
					TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD DETAIL	JAMB DETAIL			
1	1081.2	3' - 0"	7' - 0"	0' - 1 3/4"	1	WD	CLEAR	A	HM	PTD	H1	J1		1	
1	1081.1	2' - 10"	7' - 0"	0' - 1 3/4"	1	WD	CLEAR	A	HM	PTD	H1	J1		2	

DOOR TYPES



TYPE 1

FRAME TYPES

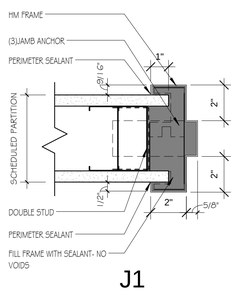


TYPE A

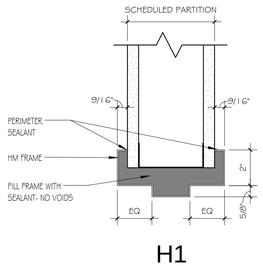
DOOR HARDWARE

HW SET 1
3 EA BB HINGES- MATCH EXISTING
1 EA MORTISE LOCK AND LEVER SET- MATCH EXISTING- PRIVACY FUNCTION
1 EA WALL STOP
3 EA SILENCERS

HW SET 2
3 EA BB HINGES- MATCH EXISTING
1 EA DUMMY TRIM- MATCH EXISTING
1 EA BALL CATCH
1 EA WALL STOP
3 EA SILENCERS



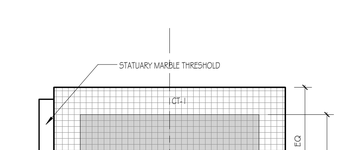
J1



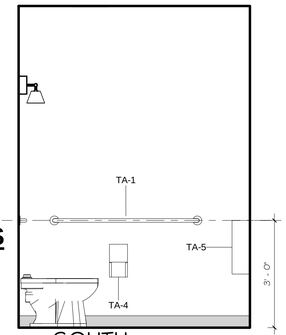
H1

TOILET ROOM ACCESSORIES

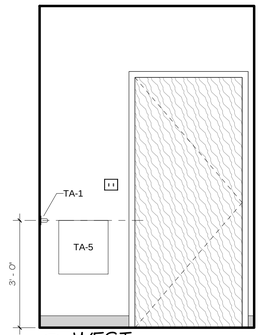
TA-1	GRAB BAR- 42"	BOBRICK	B-5806x42
TA-2	GRAB BAR- 30"	BOBRICK	B-5806x36
TA-3	PAPER TOWEL DISPENSOR	BOBRICK	B-262
TA-4	TOILET TISSUE DISPENSOR	BOBRICK	B-4288
TA-5	WASTE RECEPTACLE	BOBRICK	B-279
TA-6	SOAP DISPANSOR	BOBRICK	B-4112
TA-7	MIRROR	BOBRICK	B-165



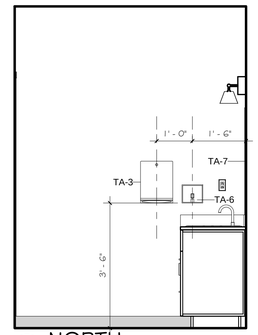
7 AG.10 FLOOR PATTERN
1/2" = 1'-0"



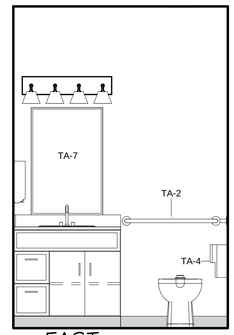
1 AG.10 SOUTH



2 AG.10 WEST

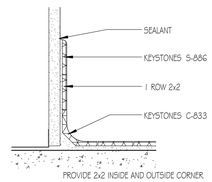


3 AG.10 NORTH

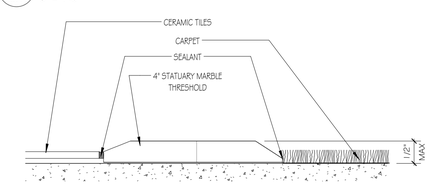


4 AG.10 EAST

TOILET ROOM ELEVATIONS
1/2" = 1'-0"



11 AG.10 CERAMIC BASE DETAIL
3" = 1'-0"



10 AG.10 FLOOR TRANSITION DETAILS
6" = 1'-0"

DESIGN
ella
Della Design
708 Marianne Lane
Catonsville, Maryland 21228
301.466.1684

JUDGE'S CHAMBER'S #6
HOWARD COUNTY
DISTRICT COURTHOUSE
3451 COURTHOUSE DRIVE
ELLICOTT CITY, MARYLAND 21043

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 number
16024
project description
JUDGE'S CHAMBERS
scale
As indicated
drawn by
WMC
checked by
WMC
owner
MARYLAND JUDICIARY
contractor
TBD

drawing date
03/17/17
revision date
date description

sheet title
SCHEDULES

sheet number
A6.10

GENERAL FIRE PROTECTION NOTES

1. REWORK EXISTING SPRINKLER SYSTEM FOR TENANT AREA TO BE 100% SPRINKLERED IN ACCORDANCE WITH NFPA #13, 13R, 14, 20, AND LOCAL CODES. CONTRACTOR TO EXTEND SPRINKLER SYSTEM FROM EXISTING SPRINKLER SYSTEM. SPRINKLER HEADS SHALL BE QUICK RESPONSE, SEMI-RECESSED, WITH ONE-PIECE CHROME ESCUTCHEON PLATES.
2. SPRINKLER CONTRACTOR SHALL COORDINATE LOCATIONS OF SPRINKLER HEADS WITH LIGHT FIXTURES, DIFFUSERS, AND CEILING ELEVATIONS FOR PROPER COVERAGE.
3. SPRINKLER CONTRACTOR SHALL COORDINATE SPRINKLER PIPING WITH STRUCTURAL ELEMENTS, CEILING ELEVATION, DUCTWORK, LIGHTS AND PIPING ABOVE CEILING.
4. SPRINKLER BRANCH PIPING SHALL MATCH EXISTING AND INSTALLATION AND MATERIAL SHALL BE IN ACCORDANCE WITH NFPA #13 AND LOCAL CODES.
5. OBTAIN ALL NECESSARY PERMITS AND APPROVALS OF LOCAL AUTHORITIES.
6. IT IS THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR TO RELOCATE THE SPRINKLER HEAD LOCATIONS TO PROVIDE CODE COMPLIANCE COVERAGE FOR THE NEW SPACE LAYOUT. THE SPRINKLER CONTRACTOR MUST MODIFY THE EXISTING PIPING, PIPING DROPS AND SWING ARMS TO PROVIDE CODE REQUIRED COVERAGE. THE SPRINKLER CONTRACTOR MUST PROVIDE PROPER COVERAGE. THE SPRINKLER CONTRACTOR MUST PROVIDE INSTALLATION DRAWINGS, SHOP DRAWINGS, CALCULATIONS AND PIPE SIZING BASED ON THE NEW SPACE LAYOUT FOR APPROVAL BY THE FIRE MARSHAL. SUBMIT SPRINKLER HEADS, PIPING MATERIALS, HEAD LAYOUT DRAWINGS AND HYDRAULIC CALCULATIONS TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL.

GENERAL NEW WORK NOTES

1. DUCTWORK AND PIPING SHALL BE KEPT AS TIGHT TO STRUCTURE AS POSSIBLE. PROVIDE TRANSITIONS OR OFFSETS IN DUCTWORK AND PIPING AS REQUIRED TO MAINTAIN ELEVATION. COORDINATE ELEVATIONS WITH STRUCTURE AND OTHER TRADES.
2. COORDINATE INSTALLATION OF PLUMBING PIPING AND EQUIPMENT WITH OTHER TRADES. PROVIDE OFFSETS, RISERS OR TRANSITIONS REQUIRED TO AVOID CONFLICTS.
3. OPEN END DUCTS SHALL BE PROVIDED WITH 1/2" BIRD SCREEN OVER DUCT OPENING.
4. AIR DISTRIBUTION SYSTEMS SHALL BE CONSTRUCTED PER SMACNA REQUIREMENTS AND AS SPECIFIED.
5. COORDINATE INSTALLATION OF MECHANICAL EQUIPMENT WITH OTHER TRADES. PROVIDE OFFSETS, RISERS OR TRANSITIONS REQUIRED TO AVOID CONFLICTS OR TO MAINTAIN REQUIRED ELEVATIONS.
6. DUCT SIZES INDICATED ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
7. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF SIDEWALL AND CEILING AIR DEVICES.
8. CEILINGS ARE USED AS RETURN AIR PLENUM. NO COMBUSTIBLE MATERIALS ARE ALLOWED IN THE PLENUM.
9. WHERE FLEXIBLE DUCT CONNECTIONS OF AIR DEVICES TO BRANCH DUCTS ARE INDICATED FLEXIBLE DUCT LENGTH SHALL NOT EXCEED 5'-0" MAXIMUM.
10. INSTALL PIPING AND DUCTWORK SO THAT VALVES AND DAMPERS ARE ACCESSIBLE.
11. INSTALL THERMOSTATS WITH CENTERLINE AT 4'-0" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH LIGHT SWITCHES AND OTHER ROOM CONTROL DEVICES AS DIRECTED BY THE ARCHITECT.
12. PROVIDE ACCESS PANELS TO ALLOW ACCESS TO ITEMS LOCATED ABOVE HARD CEILINGS OR IN SHAFTS.
13. PROVIDE FIRESTOP SYSTEMS AT PENETRATIONS OF FIRE RATED ASSEMBLIES. REFER TO DIVISION 7 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
14. PROVIDE RIGGING, LIFTING, HOISTING, AND SCAFFOLDING AS REQUIRED FOR THE INSTALLATION OF MECHANICAL EQUIPMENT INCLUDING ROOFTOP EQUIPMENT.
15. PROTECT DUCT INTERIORS FROM CONSTRUCTION DUST AND DEBRIS, MOISTURE, AND OTHER FOREIGN MATERIALS PRIOR TO AND AFTER INSTALLATION.
16. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATING OF WALLS, PARTITIONS AND FLOORS.

AIR DEVICE SCHEDULE

MARK	SERVICE	TYPE	CFM RANGE	NECK SIZE	BLOW	BASIS OF DESIGN	NOTES
A1	SUPPLY	A	0-150	6"Ø	4-WAY	TITUS TDCA	1
A2	SUPPLY	A	151-275	8"Ø	4-WAY	TITUS TDCA	1
A3	SUPPLY	A	276-375	10"Ø	4-WAY	TITUS TDCA	1
A4	SUPPLY	A	376-550	12"Ø	4-WAY	TITUS TDCA	1
B1	SUPPLY	B	0-135	6"x6"	-	TITUS 300RL	1
B2	SUPPLY	B	136-225	10"x6"	-	TITUS 300RL	1
B3	SUPPLY	B	226-300	12"x6"	-	TITUS 300RL	1
B4	SUPPLY	B	301-500	12"x12"	-	TITUS 300RL	1
B5	SUPPLY	B	501-700	18"x12"	-	TITUS 300RL	1
C1	RETURN	C	0-100	6"Ø	-	TITUS PAR	1
C2	RETURN	C	101-175	8"Ø	-	TITUS PAR	1
C3	RETURN	C	176-275	10"Ø	-	TITUS PAR	1
C4	RETURN	C	276-400	12"Ø	-	TITUS PAR	1
C5	RETURN	C	-	22"x22"	-	TITUS PAR	1,2
D1	EXHAUST	D	0-135	6"x6"	-	TITUS 350RL	1
D2	EXHAUST	D	136-225	8"x8"	-	TITUS 350RL	1
D3	EXHAUST	D	226-350	10"x10"	-	TITUS 350RL	1
D4	EXHAUST	D	351-550	12"x12"	-	TITUS 350RL	1
D5	EXHAUST	D	551-750	12"x12"	-	TITUS 350RL	1

NOTES:
1. COORDINATE BORDER TYPES WITH ARCHITECTURAL REFLECTED CEILING PLANS.
2. NON-DUCTED AIR DEVICE FOR USE IN PLENUM RETURN SYSTEM

ABBREVIATIONS

SYMBOL	ABBR.	DEFINITION
		REMOVE EXISTING TO THIS POINT
		CONNECT NEW TO EXISTING AT THIS POINT
	AFF.	ABOVE FINISHED FLOOR
	AFG.	ABOVE FINISHED GRADE
	AHU	AIR HANDLING UNIT
	APD	AIR PRESSURE DROP
	ATC	AUTOMATIC TEMPERATURE CONTROL
	BTUH	BRITISH THERMAL UNITS PER HOUR
	CFH	CUBIC FEET PER HOUR
	CFM	CUBIC FEET PER MINUTE
	CUH	CABINET UNIT HEATER
	DB	DRY BULB
Ø	DIA.	DIAMETER
	DN.	DOWN
	DWG.	DRAWING
	EAT	ENTERING AIR TEMPERATURE
	EF	EXHAUST FAN
	ESP	EXTERNAL STATIC PRESSURE
	EWT	ENTERING WATER TEMPERATURE
	EX	EXISTING
	EXH	EXHAUST
	FCU	FAN COIL UNIT
	FD	FIRE DEPARTMENT
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	HP	HORSEPOWER
	IN.	INCHES
	INV. ELEV.	INVERT ELEVATION
	KW	KILOWATTS / KITCHEN WASTE
	LAT	LEAVING AIR TEMPERATURE
	LWT	LEAVING WATER TEMPERATURE
	MAX	MAXIMUM
	MBH	ONE THOUSAND BTU
	MFG	MANUFACTURER
	MIN	MINIMUM
	NA	NOT APPLICABLE
	NFWH	NON-FREEZE WALL HYDRANT
	NFRH	NON-FREEZE ROOF HYDRANT
#	NO	NUMBER
	OA	OUTSIDE AIR
	OED	OPEN END DUCT
	OSD	OPEN SITE DRAIN
	RM.	ROOM
	RPM	REVOLUTIONS PER MINUTE
	RTU	ROOF TOP UNIT
	TW	TEMPERED WATER (110°F)
	TYP	TYPICAL
	V / Ph / Hz	VOLTS / PHASE / HERTZ
	VIF	VERIFY IN FIELD
	VTR	VENT THRU ROOF
	WC	WATER COLUMN
	WG	INCHES WATER GAUGE
	W/	WITH
	WB	WET BULB
	WPD	WATER PRESSURE DROP

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

MECHANICAL LEGEND

SYMBOL	ABBR.	DEFINITION
		THERMOMETER
		PRESSURE GAUGE WITH COCK
		RELIEF VALVE
	PRV	PRESSURE REDUCING VALVE
		BUTTERFLY VALVE
		PLUG VALVE
		SHUT OFF VALVE (SEE SPECIFICATIONS)
		BALL VALVE
		GATE VALVE
		GLOBE VALVE
		MULTIPURPOSE VALVE
		GAS COCK
		UNION
		CHECK VALVE
		DOUBLE CHECK BACKFLOW PREVENTER
		BACKFLOW PREVENTER
		STRAINER WITH HOSE END DRAIN VALVE
⌀	WHA	WATER HAMMER ARRESTER
		CAPPED PIPE
		PIPE BREAK
		PIPE UP
		DROP IN PIPE
		TOP PIPE CONNECTION
		BOTTOM PIPE CONNECTION
F	F	FIRE PIPING
	CW	COLD WATER
	HW	HOT WATER
	V	VENT PIPING
	SAN	SANITARY PIPING
SW	SW	STORM WATER PIPING
	CO.	FLOOR CLEAN OUT
	CO, CO.	WALL CLEAN OUT
	F.DR.	FLOOR DRAIN (SEE AS NOTED)
	F.DR. W/TPC	F.DR. WITH 1/2" TRAP PRIMING CONNECTION
	HB	HOSE BIBB
	WH	WALL HYDRANT
		DEMOLITION WORK
		EXISTING WORK
		NEW WORK

NOTE: ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE USED.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	ROUGH-IN CONNECTION				FIXTURE UNITS			REMARKS
		CW	HW	SAN	VENT	CW	HW	SAN	
P-1	WATER CLOSET	1"	-	4"	2"	6	-	3	1, 3
P-2	LAVATORY	1/2"	1/2"	1-1/2"	1-1/2"	0.5	0.5	1	2

NOTES:
1. FLOOR MOUNTED, BOTTOM OUTLET, VITREOUS CHINA, FLUSH VALVE.
2. FIXTURE BY ARCHITECT. PROVIDE WITH MANUAL FAUCET.
3. MOUNTED AT ADA ACCESSIBLE HEIGHT.

Oella DESIGN
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728 Marianne Lane
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JUDGE'S CHAMBER'S #6
HOWARD COUNTY
DISTRICT COURTHOUSE
3451 COURTHOUSE DRIVE
ELLICOTT CITY, MARYLAND 21043

I certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland
License Number: 39920 Expiration Date: 11/7/19

project number
16024 / 2928
project description
JUDGE'S CHAMBERS
scale
As indicated
drawn by
MH
checked by
MH
owner
MARYLAND JUDICIARY
contractor
TBD

drawing date
03/17/17
revision date
date description

sheet title
DATA SHEET - MECHANICAL

sheet number
M1.01

15000 - GENERAL PROVISIONS

PART 1 GENERAL

1.01 SCOPE

A. PROVIDE LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR AND INCIDENTAL TO THE WORK AS SHOWN ON THE DRAWINGS OR SPECIFIED AND IN CONFORMANCE WITH OTHER CONTRACT DOCUMENTS.

B. PERFORM WORK IN STRICT ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODES, NATIONAL FIRE PROTECTION ASSOCIATION, REFERENCED CODES AND STANDARDS BY VARIOUS TECHNICAL SOCIETIES, FEDERAL OCCUPATIONAL SAFETY AND HEALTH STANDARDS, LOCAL INSPECTOR REQUIREMENTS, AND OWNER INSURING AGENCY REQUIREMENTS.

C. CONTRACTOR SHALL APPLY AND PAY FOR NECESSARY PERMITS AND CERTIFICATES OF INSPECTION REQUIRED BY THE CODE AUTHORITY.

D. FINISH PAINTING IS TO BE PROVIDED BY THE GENERAL CONTRACTOR, EXCEPT AS NOTED ELSEWHERE. THIS CONTRACTOR SHALL RESTORE TO THE ORIGINAL CONDITION , ANY PAINTING DEFACED BY HIM AFTER ORIGINAL PAINTING.

E. THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED, SHALL PROVIDE POWER WIRING FOR EACH ITEM OF ELECTRICAL EQUIPMENT AND MAKE FINAL CONNECTIONS TO MOTORS.

F. PROVIDE NECESSARY CONTROLS, RELAYS, ETC. REQUIRED FOR PROPER OPERATION OF ALL EQUIPMENT.

G. GUARANTEE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE.THIS CONTRACTOR WILL BE RESPONSIBLE FOR ADJUSTMENTS TO ENSURE EFFICIENT AND PROPER OPERATION OF SYSTEMS AND EQUIPMENT DURING THE GUARANTEE PERIOD.

1.02 CUTTING AND PATCHING

A. THE CONTRACTOR FOR THIS DIVISION SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF HIS WORK.

1.03 EXAMINATION OF SITE

A. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS. LOCATIONS OF EXISTING UTILITIES INDICATED ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY SIZES, LOCATIONS AND INVERT ELEVATIONS AS NECESSARY.

15200 - PLUMBING

PART 1 GENERAL

1.01 SCOPE OF WORK

A. FURNISH ALL SUPERVISION, LABOR, MATERIALS, TOOLS AND EQUIPMENT AND INSTALL ALL MATERIALS REQUIRED TO PERFORM THE PLUMBING WORK AS SPECIFIED AND AS OTHERWISE INDICATED TO BE REQUIRED.

1.02 WORK INCLUDED

A. THE WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FURNISHING AND INSTALLATION OF THE FOLLOWING:
1. DOMESTIC WATER SYSTEM INCLUDING PIPING, FITTINGS, PIPING HANGERS, SUPPORTS, ACCESSORIES, VALVES.
2. SANITARY DRAINAGE SYSTEM INCLUDING PIPING, FITTINGS, PIPING ACCESSORIES, HANGERS, SUPPORTS.
3. STORM WATER DRAINAGE SYSTEM INCLUDING PIPING, DRAINS, FITTINGS, PIPING ACCESSORIES, HANGERS SUPPORTS.
4. CUTTING AND PATCHING IN CONNECTION WITH THE WORK.
5. PIPE INSULATION WITH VAPOR BARRIER FOR THE PREVENTION OF CONDENSATION, AND FOR PERSONNEL PROTECTION.
6. TESTING, CLEANING, ADJUSTING, AND PLACING IN OPERATION ALL SYSTEMS AND EQUIPMENT SPECIFIED UNDER THIS SECTION OF THE SPECIFICATION.

1.03 RELATED WORK TO BE PERFORMED UNDER OTHER SECTIONS

A. ELECTRICAL POWER AND WIRING

1.04 CODES AND STANDARDS

A. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING:
1. PDI - PLUMBING AND DRAINAGE INSTITUTE
2. ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES

1.05 SUBMITTALS

A. SUBMIT FOR REVIEW AND APPROVAL, MANUFACTURER'S CATALOGUE LITERATURE FOR ALL MAJOR COMPONENTS CONTAINED IN THE PLUMBING WORK INCLUDING:
1. INSULATION, HANGERS, SUPPORTS, ETC.
2. CLEANOUTS

1.06 PRODUCT HANDLING AND STORAGE

A. MATERIALS AND FIXTURES USED SHALL BE NEW, DAMAGE FREE AND SHALL BE PROPERLY STORED AND PROTECTED BY THE MANUFACTURER'S RECOMMENDATION. THE CONTRACTOR SHALL STORE THE MATERIALS AND FIXTURES IN A PROTECTED AREA TO PREVENT DAMAGE, CORROSION, OR LOSS OF MATERIAL. THE CONTRACTOR SHALL INSPECT ALL MATERIALS AND FIXTURES UPON RECEIPT AND BEFORE INSTALLATION. ANY DAMAGED OR DEFECTIVE MATERIALS OR FIXTURES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER PRIOR TO INSTALLATION. DAMAGED OR DEFECTIVE MATERIALS OR FIXTURES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THE OWNERS OPTION. THE CONTRACTOR WILL HANDLE ANY FREIGHT CLAIMS THAT MAY ARISE.

PART 2 PRODUCTS

2.01 GENERAL

A. THE PRODUCT MANUFACTURERS AND COMPONENT MODEL NUMBERS IN THE FOLLOWING PARAGRAPHS ARE GIVEN TO ESTABLISH A LEVEL OF QUALITY AND PERFORMANCE, AND THEY ARE NOT INTENDED TO EXCLUDE EQUIVALENT PRODUCTS OF ALTERNATE MANUFACTURERS. ALTERNATE MANUFACTURERS OF EQUIVALENT PRODUCTS MAY BE CONSIDERED UPON SUBMISSION BY THE GENERAL CONTRACTOR AND APPROVAL BY THE OWNER.

2.02 PIPE AND FITTINGS

A. SHALL BE IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.

B. SANITARY PIPING:
1. SANITARY WASTE, DRAIN AND VENT PIPING SHALL BE SERVICE WEIGHT, CAST IRON, NO-HUB PIPE. PVC OR CPVC PIPE IS NOT ACCEPTABLE.
2. JOINTS: PROVIDE NEOPRENE SEALING SLEEVE WITH STAINLESS STEEL SHIELD AND CLAMP WITH APPROVED NEOPRENE BASED LUBRICANT.
3. SLOPE WASTE PIPING 2" AND SMALLER NOT LESS THAN 1/4" PER FOOT. SLOPE WASTE PIPING 2-1/2" AND LARGER NOT LESS THAN 1/8" PER FOOT.
4. INSTALL CLEANOUTS AS SHOWN ON THE DRAWINGS AND AS REQUIRED PER LOCAL CODE. PROVIDE COVERS WITH INSET AREA FOR CARPETED FLOOR LOCATIONS.

C. DOMESTIC WATER PIPING:

1. PIPING SHALL BE THE FOLLOWING:
a. COPPER TUBE AND FITTINGS: TYPE L DRAWN COPPER TUBE WITH WROUGHT COPPER FITTINGS AND 95-5 TIN ANTIMONY SOLDER.

2. PROVIDE AIR CHAMBER WATER HAMMER ARRESTORS IN THE PIPING SYSTEM TO PREVENT NOISE AND DAMAGE.

2.03 EQUIPMENT

A. VALVES: PROVIDE 125 SWP, BRONZE VALVES BY NIBCO, CRANE, OR STOCKHAM

1. GATE VALVES 2-1/2" AND SMALLER SHALL BE SCREWED, TAPERED, SOLID WEDGE DISC, SCREWED BONNET, RISING STEM.
2. BALL VALVES 2-1/2" AND SMALLER SHALL BE 1/4 TURN SHUT OFF WITH TEFLON STEM SEALS AND SEAT, VINYL COVERED HANDLE.
3. CHECK VALVES 2-1/2" AND SMALLER SHALL BE SCREWED, HORIZONTAL SWING CHECK WITH BRONZE DISC.

B. CLEANOUTS

1. MANUFACTURERS SHALL BE JAY R SMITH, JOSAM, OR ZURN.
2. CLEANOUTS AT THE END OF PIPES SHALL BE COUNTERSUNK BRONZE CLEANOUT PLUG EQUAL TO ZURN MODEL Z1470.
3. FLOOR CLEANOUTS SHALL BE ADJUSTABLE CAST IRON WITH NICKEL BRONZE TOP FLUSH WITH FLOOR EQUAL TO ZURN MODEL Z-1400.

2.04 PLUMBING FIXTURES

A. WATER CLOSET, P-1:

1. MANUFACTURER SHALL BE AMERICAN STANDARD, CRANE, OR KOHLER EQUAL TO AMERICAN STANDARD MODEL 3043.001.
2. FIXTURE SHALL BE VITREOUS CHINA, FLOOR MOUNTED, FLUSH VALVE, ELONGATED BOWL; 1.28 GPF CONSUMPTION; SIPHON JET; MOUNTING HEIGHT 16-1/2" TO RIM.
3. FLUSH VALVE SHALL BE SLOAN VALVE COMPANY, ZURN INDUSTRIES, OR DELANEY EQUAL TO SLOAN ROYAL 111-1.28.
2. SEAT SHALL BE CHURCH SEATS, BEMIS MANUFACTURING, OR ZURN EQUAL TO CHURCH MODEL #9500CT.

B. LAVATORY, P-2:

1. FIXTURE PROVIDED BY ARCHITECT.
2. FAUCET SHALL BE CHICAGO FAUCETS, DELTA, OR KOHLER EQUAL TO CHICAGO FAUCET MODEL 420-POABCP; DECK MOUNTED, SINGLE LEVER, RIGID CAST BRASS SPOUT, 4" CENTERS, CHROME PLATED WITH POIP-UP WASTE, 0.5 GPM.

2.05 INSULATION

A. PIPE INSULATION SHALL BE MOLDED GLASS FIBER, WITH A 3-1/2 LB/CU. FT. DENSITY AND A K FACTOR OF 0.023 AT 75° F, EQUAL TO JOHNS-MANVILLE "FLAME-SAFE AP-T".

B. FITTINGS AND VALVES SHALL BE COVERED WITH FIBERGLASS INSERT AND PRE-MOLDED PVC COVERS SIMILAR TO JOHNS-MANVILLE "ZESTON".

C. PIPE INSULATION SCHEDULE, GENERAL:

1. ITEMS NOT INSULATED: UNLESS OTHERWISE INDICATED, DO NOT INSTALL INSULATION ON THE FOLLOWING:
a. DRAINAGE PIPING LOCATED IN CRAWL SPACES.
b. CHROME-PLATED PIPES AND FITTINGS UNLESS THERE IS A POTENTIAL FOR PERSONNEL INJURY.

D. INDOOR PIPING INSULATION SCHEDULE:

1. DOMESTIC COLD WATER - 1/2" THICKNESS
2. DOMESTIC HOT WATER - 1/2" THICKNESS

PART 3 EXECUTION

3.01 GENERAL

A. ALL EQUIPMENT AND SYSTEMS DESIGNS, INSTALLATIONS AND TESTING SHALL BE IN CONFORMANCE WITH NFPA, AGA, MANUFACTURER'S RECOMMENDATIONS, STATE AND LOCAL CODES AND ORDINANCES.

B. ALL PLUMBING WORK SHALL BE INSTALLED IN COMPLETE CONFORMITY WITH APPLICABLE PORTIONS OF LOCAL ORDINANCES, PLUMBING CODES, PUBLIC UTILITIES, STATE CODES, ASME CODE AND AGA REQUIREMENTS.

C. THE PLUMBING CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES REQUIRED, AND ARRANGE FOR ALL INSPECTIONS IN CONNECTION WITH THIS WORK.

D. INSTALLATION OF THE PLUMBING WORK SHALL BE INSPECTED AND APPROVED BY THE APPLICABLE LOCAL AUTHORITIES AS WORK PROGRESSES.

E. PIPING SHALL BE LABELED AS TO SERVICE PROVIDED AND DIRECTION OF FLOW. PIPING SERVING SPECIFIC TENANTS SHALL HAVE THE TENANT SPACE NUMBER INDICATED ON THE LABEL.

F. ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE WHILE MAINTAINING CODE REQUIRED SLOPES. ALL PIPING TO BE SUSPENDED FROM TOP CHORD OF JOISTS.

G. EXPOSED PIPING SHALL BE NEAT AND CAREFULLY ALIGNED WITH STRUCTURAL ELEMENTS OF THE BUILDING. NO OFFSETS OR OBLIQUE BENDS WILL BE PERMITTED. DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE USED FOR LAYOUT WORK.

H. PIPES SHALL BE LOCATED A SUFFICIENT DISTANCE FROM WALLS, OTHER PIPES, DUCTWORK, CONDUITS, AND EQUIPMENT TO AVOID INTERFERENCE AND TO PERMIT THE APPLICATION OF FULL THICKNESS OF INSULATION SPECIFIED.

3.02 DOMESTIC WATER SYSTEM

A. DOMESTIC WATER SYSTEM SHALL BE INSTALLED TO PROVIDE POTABLE WATER TO ALL PLUMBING FIXTURES AT ADEQUATE PRESSURE FOR PROPER OPERATION.

B. CAPPED SERVICES FOR FUTURE USE SHALL BE PROVIDED WITH INDIVIDUAL ISOLATION VALVES. EXPOSED PIPING AND ACCESSORIES AT FIXTURES AND IN FINISHED AREAS SHALL BE CHROME PLATED.

C. EACH DOMESTIC HOT AND COLD WATER BRANCH SHALL BE PROVIDED WITH SHUT-OFF GATE VALVE AND EACH FIXTURE SHALL BE PROVIDED WITH A STOP VALVE.

D. DISINFECTING WATER PIPES:

1. FLUSH PIPING SYSTEM WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT OUTLETS.
2. DISINFECT THE ENTIRE WATER SUPPLY SYSTEM, FILLING WITH A SOLUTION OF 50 PPM OF CHLORINE AND ALLOW TO STAND TWENTY FOUR HOURS BEFORE FLUSHING AND RETURNING TO SERVICE.
3. FLUSH SYSTEM WITH CLEAN, POTABLE WATER UNTIL NO CHLORINE IS IN WATER COMING FROM SYSTEM AFTER THE STANDING TIME.

3.03 SANITARY DRAINAGE SYSTEM

A. SANITARY DRAINAGE SHALL BE COLLECTED FROM PLUMBING FIXTURES AND EXTENDED BY GRAVITY AND CONNECTED TO THE BUILDING DRAIN SYSTEM.

B. SYSTEM SHALL BE PROPERLY VENTED IN ACCORDANCE WITH CODE REQUIREMENTS TO PREVENT EXCESSIVE BACK PRESSURE. VENTS SHALL EXTEND UNDIMINISHED THROUGH ROOF; VENT FLASHING SHALL BE BY THE ROOFING CONTRACTOR.

15700 - HEATING, VENTILATION, AND AIR CONDITIONING

PART 1 GENERAL

1.01 SCOPE OF WORK

A. FURNISH ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, AND SUPERVISION REQUIRED TO PROVIDE COMPLETE AND WORKING HVAC SYSTEMS AS INDICATED ON THE DRAWINGS AND AS OTHERWISE INDICATED TO BE REQUIRED.

1.02 WORK INCLUDED

A. THE WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FURNISHING AND INSTALLATION OF THE FOLLOWING:
1. HVAC SYSTEMS
2. DUCTWORK AND HANGERS
3. AUTOMATIC TEMPERATURE CONTROLS AND CONTROL WIRING
4. CUTTING AND PATCHING IN CONNECTION WITH THE WORK
5. TESTING, CLEANING AND PLACING IN OPERATION ALL SYSTEMS AND EQUIPMENT SPECIFIED UNDER THIS SECTION OF THE SPECIFICATION
6. WORK SHALL COMPLY WITH APPLICABLE CODES AND ORDINANCES
7. CONTRACTOR SHALL OBTAIN PERMITS AND REQUIRED INSPECTIONS
8. COORDINATE THE WORK OF THIS DIVISION WITH OTHER TRADES

1.03 RELATED WORK TO BE PERFORMED UNDER OTHER SECTIONS

A. POWER WIRING, AND POWER CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED
B. MOTOR STARTERS AND DISCONNECTS WITH FUSES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED
C. CONTROL WIRING SHALL BE IN CONDUIT
D. ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND ALL LOCAL CODES AND JURISDICTIONS

1.04 CODES AND STANDARDS

A. ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES AND THE FOLLOWING STANDARDS:

1.	NFPA-90	AIR CONDITIONING AND VENTILATING SYSTEM
2.	ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
3.	ARI	AMERICAN REFRIGERATION INSTITUTE
4.	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION, INC.
5.	ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS
6.	ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
7.	ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
8.	UL-181	UNDERWRITERS LABORATORIES, INC.
9.	NEC	NATIONAL ELECTRIC CODE
10.	AMCA	AIR MOVING AND CONDITIONING ASSOCIATION
11.	ICC	INTERNATIONAL CODE COUNCIL
12.	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

1.05 FLAME SPREAD AND SMOKE DEVELOPED PROPERTIES OF MATERIALS

A. MATERIALS AND ADHESIVES USED THROUGHOUT THE MECHANICAL AND ELECTRICAL SYSTEMS FOR INSULATION, AND JACKETS OR COVERINGS OF ANY KIND, OR FOR PIPING OR CONDUIT SYSTEM COMPONENTS, SHALL HAVE A FLAMESPREAD RATING NOT OVER 25 WITHOUT EVIDENCE OF CONTINUED COMBUSTION AND WITH A SMOKE DEVELOPED RATING NOT HIGHER THAN 50.

1.06 SUBMITTALS

A. THREE COMPLETE SCHEDULES OF PROPOSED MATERIALS AND EQUIPMENT SHALL BE SUBMITTED TO THE OWNER FOR REVIEW WITHIN 30 DAYS OF CONTRACT AWARD, INCLUDING:

1.07 PRODUCT HANDLING AND STORAGE

A. MATERIALS AND EQUIPMENT USED SHALL BE NEW, DAMAGE FREE AND SHALL BE PROPERLY STORED AND PROTECTED BY THE MANUFACTURER'S RECOMMENDATION. THE CONTRACTOR SHALL STORE THE MATERIALS AND EQUIPMENT IN A PROTECTED AREA TO PREVENT DAMAGE, CORROSION, OR LOSS. THE CONTRACTOR SHALL INSPECT ALL MATERIAL AND EQUIPMENT UPON RECEIPT AND BEFORE INSTALLATION. ANY DAMAGED OR DEFECTIVE MATERIAL OR EQUIPMENT SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER PRIOR TO INSTALLATION. DAMAGED OR DEFECTIVE MATERIAL OR EQUIPMENT SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THE OPTION OF THE OWNER. THE CONTRACTOR WILL HANDLE ANY FREIGHT CLAIMS THAT MAY ARISE.

B. WORKMANSHIP SHALL CONFORM TO INDUSTRY STANDARDS FOR THE TRADE INVOLVED.

1.08 PAINTING

A. FACTORY PAINTED EQUIPMENT THAT HAS BEEN SCRATCHED OR MARRED SHALL BE REPAINTED TO MATCH ORIGINAL FACTORY COLOR AND FINISH

1.09 CONTRACTOR'S WARRANTY

A. THE CONTRACTOR SHALL FURNISH A WRITTEN WARRANTY GUARANTEEING THE SYSTEM AGAINST DEFECTS IN WORKMANSHIP, MATERIALS, EQUIPMENT FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. PARTS AND LABOR SHALL BE INCLUDED WITH THE EXCEPTION OF BELTS, FILTERS, AND FUSES.THE CONTRACTOR SHALL FURNISH A FIVE YEAR WRITTEN WARRANTY GUARANTEEING THE COMPRESSORS AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS.

PART 2 PRODUCTS

2.01 DUCTWORK

A. DUCT SIZES SHALL BE AS INDICATED ON THE DRAWINGS.

B. DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED STEEL SHEETS. DUCTS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SMACNA AND THE ASHRAE GUIDE.

D. FLEXIBLE CONNECTIONS SHALL BE INSTALLED ON THE CONNECTIONS TO AIR HANDLING UNITS. FLEXIBLE CONNECTIONS SHALL BE MINIMUM LENGTH AND MADE OF NFPA 90A APPROVED FLAME PROOF FABRIC.

E. PROVIDE TURNING VANES IN RECTANGULAR DUCT ELBOWS. BLADES SHALL BE HOLLOWED-FORMED DOUBLE-THICHNESS VANES.

F. PROVIDE SUPPLY, RETURN AND EXHAUST DIFFUSERS AND GRILLES AS INDICATED ON THE DRAWINGS AND AS SCHEDULED.

G. FLEXIBLE SUPPLY AIR DUCTWORK SHALL BE PROVIDED WITH 1" THICK FIBERGLASS BLANKET INSULATION WITH METALIZED FILM VAPOR BARRIER OUTER JACKET. FLEXIBLE DUCTWORK LENGTH SHALL NOT EXCEED 5'-0".

H. DUCT LINER:

1. FLEXIBLE ELASTOMERIC DUCT LINER: PREFORMED, CELLULAR, CLOSED-CELL, SHEET MATERIALS COMPLYING WITH ASTM C 534, TYPE II, GRADE 1; AND WITH NFPA 90A OR NFPA 90B.

a. MANUFACTURERS SHALL BE AEROFLEX USA, ARMACELL, OR RUBATEX INTERNATIONAL.
b. LINER ADHESIVE: AS RECOMMENDEC BY INSULATION MANUFACTURER AND COMPLYING WITH NFPA 90A OR NFPA 90B.

2.02 DAMPERS

A. MANUFACTURERS SHALL BE AMERICAN WARMING AND VENTILATING, PREFCO, OR RUSKIN.

B. RECTANGULAR DUCT: GALVANIZED STEEL MANUAL VOLUME DAMPER WITH 6" WIDE OPPOSED BLADES, CHANNEL FRAME WITH BRACED CORNERS, CONCEALED LINKAGE, TEFLON FILLED BEARINGS, 3/8" DIAMETER AXLE, 6" LONG CONTROL SHAFT.

C. ROUND DUCT: GALVANIZED STEEL MANUAL VOLUME DAMPER WITH SINGLE BLADE, CHANNEL FRAME, STAINLESS STEEL SLEEVE BEARINGS PRESSED INTO FRAME, 3/8" DIAMETER AXLE EXTENDED 6" FOR CONTROL SHAFT, BLADE STOP.

D. PROVIDE DAMPERS WITH LOCKING QUADRANTS.

E. VOLUME DAMPERS SHALL BE TWO GAUGES HEAVIER THAN DUCT IN WHICH INSTALLED.

F. CHECK DAMPERS FOR PROPER OPERATION BEFORE AND AFTER INSTALLATION.

G. INSTALL VOLUME DAMPERS AT BRANCH TAKE-OFFS IN SUPPLY AND RETURN FROM MAIN DUCTS. WHERE INDICATED ON DRAWINGS, AND WHERE REQUIRED TO OBTAIN PROPER SYSTEM BALANCE.

2.03 DUCT INSULATION

A. PROVIDE PRODUCTS BY JOHNS MANVILLE, KNAUF, OR OWENS CORNING.

B. TYPE 1: MINERAL-FIBER BLANKET INSULATION WITH MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM C 553, TYPE II AND ASTM C 1290, TYPE III WITH FACTORY-APPLIED FSK JACKET. FSK JACKET SHALL BE ALUMINUM-FOIL, FIBERGLASS-REINFORCED SCRIM WITH KRAFT-PAPER BACKING; COMPLYING WITH ASTM C 1136, TYPE II. PROVIDE JOHNS MANVILLE MICROLITE OR EQUAL BY MANUFACTURERS SPECIFIED.

C. FACTORY-APPLIED JACKETS

1. INSULATION SYSTEM SCHEDULES INDICATE FACTORY-APPLIED JACKETS ON VARIOUS APPLICATIONS. WHEN FACTORY-APPLIED JACKETS ARE INDICATED, COMPLY WITH THE FOLLOWING:

a. ASJ: WHITE, KRAFT-PAPER, FIBERGLASS-REINFORCED SCRIM WITH ALUMINUM-FOIL BACKING; COMPLYING WITH ASTM C 1136, TYPE I.

D. INSULATION SHALL NOT BE APPLIED UNTIL THE GENERAL CONSTRUCTION HAS PROGRESSED SUFFICIENTLY TO ENSURE AGAINST PHYSICAL OR MOISTURE DAMAGE TO THE INSTALLATION. ALL INSULATION DAMAGED THROUGH THE FAILURE TO OBSERVE THIS DIRECTIVE SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.

E. HANGER RODS MUST BE PERPENDICULAR TO DUCTWORK BEFORE INSULATION IS INSTALLED.

F. INSULATION SHALL BE APPLIED OVER FLANGES, JOINTS, AND SEAMS IN DUCTWORK.

G. JOINTS AND SEAMS IN DUCTWORK INSULATION SHALL BE PROPERLY SEALED TO MAINTAIN VAPOR BARRIER INTEGRITY.

H. DUCT INSULATION SCHEDULE, GENERAL

1. PLENUMS AND DUCTS REQUIRING INSULATION:

a. INDOOR, EXPOSED OUTDOOR AIR.

2. ITEMS NOT INSULATED:

a. INDOOR, EXPOSED SUPPLY IN CONDITIONED SPACE.
b. INDOOR, EXPOSED RETURN IN CONDITIONED SPACE.
c. METAL DUCTS WITH DUCT LINER OF SUFFICIENT THICKNESS TO COMPLY WITH ENERGY CODE AND ASHRAE/IESNA 90.1.
d. FACTORY-INSULATED FLEXIBLE DUCTS.
e. FACTORY-INSULATED PLENUMS AND CASINGS.
f. FLEXIBLE CONNECTORS.
g. VIBRATION-CONTROL DEVICES.
h. FACTORY-INSULATED ACCESS PANELS AND DOORS.

I. INDOOR DUCT AND PLENUM INSULATION SCHEDULE

1. CONCEALED, SUPPLY-AIR DUCT AND PLENUM INSULATION: MINERAL-FIBER BLANKET, 2 INCHES THICK AND 0.75-LB/CU. FT. NOMINAL DENSITY.
2. EXPOSED, OUTDOOR-AIR DUCT AND PLENUM INSULATION: MINERAL-FIBER BLANKET, 1-1/2 THICK AND 0.75-LB/CU. FT. NOMINAL DENSITY.

PART 3 EXECUTION

3.01 GENERAL

A. ALL EQUIPMENT AND SYSTEMS, DESIGNS, INSTALLATIONS, AND TESTING SHALL BE IN CONFORMANCE WITH APPLICABLE STATE AND LOCAL CODES, STANDARDS, AND ORDINANCES, THE MANUFACTURER'S RECOMMENDATIONS, AND THE CRITERIA NOTED.

B. DUCTWORK SHALL BE PLACED TO NOT INTERFERE WITH PLUMBING PIPES, ELECTRICAL CONDUITS AND OTHER TRADES.

C. DUCTWORK SHALL BE LOCATED AT SUFFICIENT DISTANCE FROM WALLS, PIPES, EQUIPMENT AND OTHER OBSTACLES TO PERMIT THE APPLICATION OF FULL THICKNESS OF INSULATION SPECIFIED.

3.02 SYSTEM TESTING

A. AIR SYSTEMS SHALL BE TESTED AND BALANCED BY A CERTIFIED (AABC OR NEBB) CONTRACTOR REGULARLY ENGAGED IN THE TESTING AND BALANCING OF HVAC SYSTEMS. THREE COPIES OF THE REPORT SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL.

B. AFTER TESTING AND ADJUSTMENT PROCEDURES HAVE BEEN COMPLETED, A SYSTEM CHECKOUT SHALL BE PERFORMED. THE OWNER'S REPRESENTATIVE SHALL BE GIVEN 48 HOURS NOTICE THAT THE SYSTEM IS READY FOR FINAL CHECKOUT. ANY DEFECTS FOUND IN THE WORK SHALL BE CORRECTED.

DESIGN
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3451 COURTHOUSE DRIVE
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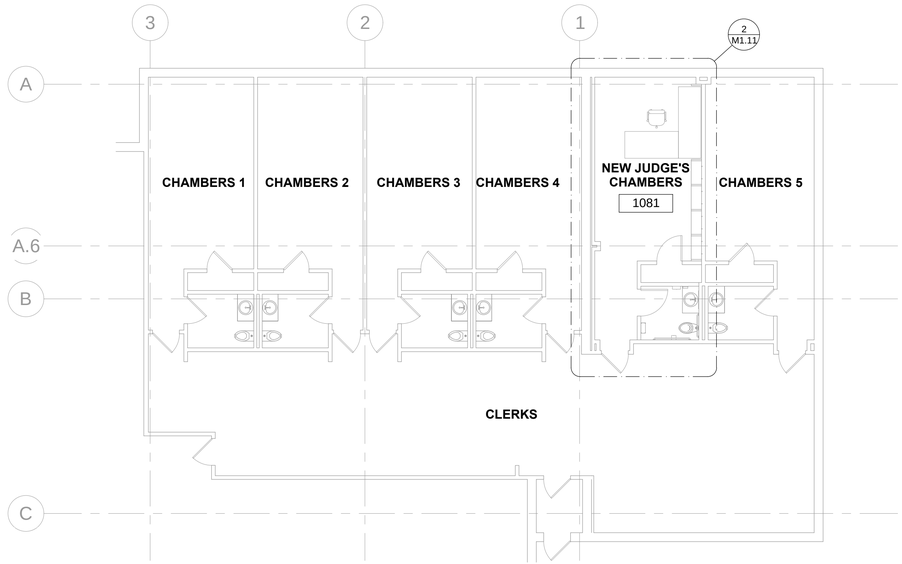
I certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland
License Number: 39920 Expiration Date: 1/17/19

project number
16024/2928
project description
JUDGES CHAMBERS
scale
As indicated
drawn by
MH
checked by
MH
owner
MARYLAND JUDICIARY
contractor
TBD

drawing date
03/17/17
revision date
date description

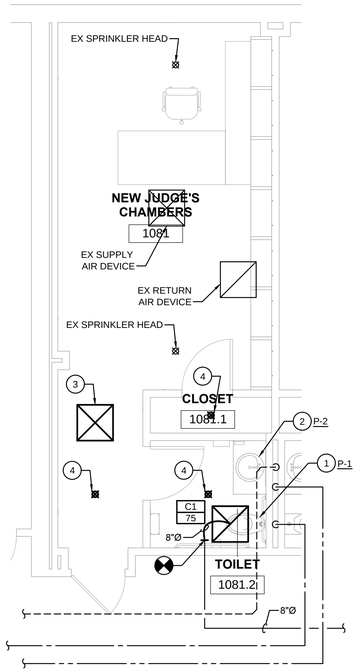
sheet title
SPECIFICATIONS - MECHANICAL

sheet number
M1.02



1 FIRST FLOOR JUDGE'S CHAMBERS

SCALE: 1/8" = 1'-0"

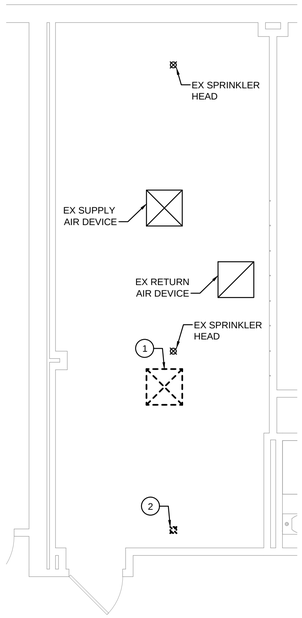


2 NEW WORK PLAN - MECHANICAL

SCALE: 1/4" = 1'-0"

DRAWING NOTES

1. CONNECT NEW WATER CLOSET TO EXISTING WATER PIPING IN WALL AND SANITARY PIPING BELOW FLOOR. VERIFY LOCATION OF EXISTING SANITARY PIPING IN THE FIELD. PROVIDE NEW SANITARY PIPING AS REQUIRED TO MAKE CONNECTION TO EXISTING PLUMBING.
2. CONNECT NEW LAVATORY TO EXISTING WATER AND SANITARY DRAIN AND VENT PIPING IN WALL. PROVIDE NEW PIPING AS REQUIRED TO MAKE CONNECTIONS TO EXISTING PLUMBING.
3. EXISTING RELOCATED SUPPLY AIR DEVICE. PROVIDE NEW DUCTWORK TO CONNECT AIR DEVICE TO THE EXISTING SUPPLY AIR DUCTWORK. NEW DUCT SIZES SHALL MATCH EXISTING DUCT SIZES.
4. NEW SPRINKLER HEAD. SPRINKLER HEAD LOCATIONS AND PIPE LAYOUT SHALL BE IN ACCORDANCE WITH NFPA 13. PROVIDE MODIFICATIONS TO EXISTING SPRINKLER PIPING AND NEW PIPING AS REQUIRED TO CONNECT NEW SPRINKLER HEADS TO EXISTING SPRINKLER PIPING.



3 DEMOLITION PLAN - MECHANICAL

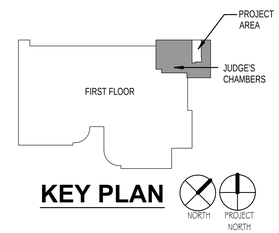
SCALE: 1/4" = 1'-0"

DRAWING NOTES

1. REMOVE AND RELOCATE EXISTING SUPPLY AIR DEVICE. REFER TO 2/M1.11 FOR NEW LOCATION. REMOVE ASSOCIATED BRANCH DUCTWORK.
2. REMOVE EXISTING SPRINKLER HEAD AND ASSOCIATED BRANCH PIPING.

GENERAL NOTES

1. REFER TO DRAWING M1.01 FOR GENERAL NEW WORK NOTES AND GENERAL FIRE PROTECTION NOTES.
2. VERIFY EXACT LOCATION AND ELEVATION OF EXISTING SANITARY DRAIN PIPING IN THE FIELD.
3. NEW PIPING AND DUCTWORK MATERIALS SHALL MATCH EXISTING OR SHALL BE AS SPECIFIED.
4. REBALANCE EXISTING TOILET EXHAUST FAN TO ACCOMMODATE ADDITIONAL EXHAUST AIRFLOW OF THE NEW TOILET ROOM. PROVIDE BELTS AND SHEAVES AS REQUIRED.



KEY PLAN

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revision date
date description

sheet title
FLOOR PLANS - MECHANICAL

sheet number
M1.11

8 4 2 0

ELECTRICAL SPECIFICATIONS

NEW WORK

1. ALL WORK AND EQUIPMENT SHALL BE MANUFACTURED, TESTED AND INSTALLED IN ACCORDANCE WITH THE CURRENT NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE LOCAL CODES. THE CONTRACTOR SHALL FURNISH A UNDERWRITER'S CERTIFICATE OF INSPECTION COVERING ALL WORK INSTALLED UNDER THIS SPECIFICATION. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS AND CERTIFICATES . MODIFICATIONS REQUIRED BY THE ABOVE SAID AUTHORITIES TO BRING THE PROJECT SPACE UNDER CONTRACT UP TO CODE SHALL BE MADE WITHOUT ADDITIONAL CHARGE. WHERE CONTRACT DOCUMENT REQUIREMENTS ARE IN EXCESS OF CODE REQUIREMENTS, THE CONTRACT DOCUMENTS SHALL GOVERN. DEVIATIONS FROM THE CONTRACT DOCUMENTS REQUIRED BY THE ABOVE AUTHORITIES SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW.

2. THOROUGHLY EXAMINE ALL ARCHITECTURAL AND MECHANICAL DRAWINGS PRIOR TO COMMENCEMENT OF ANY WORK, COORDINATE WORK WITH ALL OTHER TRADES. ALL ELECTRICAL EQUIPMENT SHALL BE NEW, OF FIRST QUALITY, AND BE FURNISHED, DELIVERED, ERECTED, CONNECTED AND FINISHED IN EVERY DETAIL . ANY INTERRUPTION TO THE EXISTING POWER SHALL BE COORDINATE AND APPROVED BY THE BUILDING MANAGEMENT.

3. MEP DOCUMENTS ARE DIAGRAMMATIC AND INDICATE MAJOR COMPONENTS, GENERAL LOCATION OF WORK AND SYSTEMS. COORDINATE ALL TRADES AND BE FAMILIAR WITH CONDITIONS, NEW AND EXISTING, WHICH MAY AFFECT THE WORK. VERIFY AND FIELD CHECK DIMENSIONS AND CONDITIONS PRIOR TO THE START OF ANY WORK AND REVIEW THE DOCUMENTS FOR ANY CONDITIONS WHICH AFFECT THIS WORK. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE AND SHALL BE FIELD VERIFIED. THIS CONTRACTOR SHALL REVIEW ALL SUPPORTING AND COMPLIMENTARY DOCUMENTS, WHICH ARE CONSIDERED A PART OF THE CONTRACT DOCUMENT PACKAGE. THESE DOCUMENTS INCLUDE; ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DOCUMENTS AND SPECIFICATIONS. THESE DOCUMENTS COMPLIMENT EACH OTHER AND MUST BE UTILIZED BY ALL CONTRACTORS IN ORDER TO OBTAIN COMPLETE CONSTRUCTION INFORMATION. ANY INFORMATION, WHICH CONFLICTS WITHIN THESE DOCUMENTS AND SPECIFICATIONS, SHALL BE BROUGHT TO THE ARCHITECTS AND ENGINEERS ATTENTION.

4. MAKE ARRANGEMENTS FOR, AND PAY ALL COSTS, AS APPLICABLE FOR TEMPORARY POWER, LIGHTING AND HVAC AS REQUIRED TO PROPERLY CONDUCT THE WORK SPECIFIED IN THIS CONTRACT AND MAINTAIN ALL EXISTING SERVICES. PROVIDE AND MAINTAIN FOR THE ENTIRE LENGTH OF THIS CONTRACT; EXITS, EMERGENCY LIGHTING, FIRE PROTECTION AND ALARM DEVICES TO CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING CODES . ALL TEMPORARY EQUIPMENT SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS AND SHALL BE COMPLETELY REMOVED AFTER CONSTRUCTION IS COMPLETED .

5. VERIFY POINTS OF CONNECTION BEFORE COMMENCING WORK. CONFIRM THE REQUIREMENTS FOR PREMIUM TIME OR SPECIAL PROCEDURES WITH THE OWNER AND INCLUDE THE COST IN THE BID PROPOSAL. BY SUBMITTING A BID PROPOSAL, THE CONTRACTOR AGREES TO ACCEPT EXISTING SITE CONDITIONS NOT SPECIFICALLY EXCLUDED. EXCLUSIONS SHALL BE PROVIDED IN WRITING AS A SEPARATE DOCUMENT TO THE ARCHITECT AND ENGINEER.

6. ALL MATERIALS SHALL BE NEW, FREE FROM DEFECTS AND LISTED BY THE UNDERWRITERS LABORATORIES, INC (UL) BEFORE PROCURING MATERIALS OR EQUIPMENT. SUBMIT ENGINEERING DATA FOR MATERIAL AND EQUIPMENT PROPOSED FOR USE. VERIFY EQUIPMENT DIMENSIONS FOR ADEQUATE SPACE ALLOTMENT ON THE PROJECT. THE PRODUCT MANUFACTURERS AND COMPONENT MODEL NUMBERS ARE GIVEN TO ESTABLISH A LEVEL OF QUALITY AND PERFORMANCE, AND ARE NOT INTENDED TO EXCLUDE EQUIVALENT PRODUCTS OF ALTERNATE MANUFACTURERS. ALTERNATE MANUFACTURERS OF EQUIVALENT PRODUCTS WILL BE CONSIDERED. COORDINATE, PREPARE AND SUBMIT SHOP DRAWINGS TO THE ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL. SHOP DRAWINGS TO BE SUBMITTED SHALL INCLUDE, BUT NOT BE LIMITED TO: LIGHTING FIXTURES, CONTROL DEVICES, WIRING DEVICES (SWITCHES AND RECEPTACLES), CIRCUIT BREAKERS, SAFETY SWITCHES, FIRE DETECTION AND ALARM EQUIPMENT.

7. MAINTAIN A SET OF MEP RECORD DRAWINGS IN THE GENERAL CONTRACTORS OFFICE, AT THE PROJECT SITE OFFICE. INDICATE ACTUAL LOCATIONS OF ALL EQUIPMENT, CONDUIT AND ETC., AS WELL AS DEVIATIONS OF WORK FROM THAT SHOWN ON THE CONTRACT DOCUMENTS. WHERE CONFLICTS EXIST BETWEEN EQUIPMENT OF MULTIPLE DISCIPLINES, THIS CONTRACTOR SHALL DEVELOP FIELD COORDINATION DRAWINGS TO ASSIST IN THE INSTALLATION AS WELL AS A RECORD TO INDICATE THESE ISSUES TO THE ARCHITECT AND ENGINEER.

8. X-RAYING OF STRUCTURE: DO NOT CORE DRILL, PENETRATE OR CUT EXISTING CONCRETE FLOOR SLABS WITHOUT CONSULTING WITH THE BASE BUILDINGS STRUCTURAL ENGINEER OF RECORD, AND/OR A REGISTERED PROFESSIONAL STRUCTURAL ENGINEER. DO NOT PROCEED WITH WORK WITHOUT WRITTEN PERMISSION FROM THE ABOVE PROFESSIONALS. ARRANGE MOBILIZATION AND PAYMENT FOR X-RAY EQUIPMENT, IF NECESSARY, TO INVESTIGATE ALL POTENTIAL STRUCTURAL IMPEDIMENTS.

9. GUARANTEE EQUIPMENT AND WORKMANSHIP FOR A PERIOD OF ONE YEAR BEGINNING FROM THE DAY OF FINAL ACCEPTANCE OF THE WORK OR BENEFICIAL OCCUPANCY BY THE OWNER, WHICHEVER COMES FIRST. GUARANTEE WORK SHALL BE PERFORMED PROMPTLY AND AT NO ADDITIONAL COST TO THE OWNER. GUARANTEE SHALL APPLY TO MATERIALS, EQUIPMENT AND SERVICES. WORK SHALL BE PERFORMED USING MECHANICS SKILLED IN THEIR RESPECTIVE TRADES.

10. INSTALL WORK IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS TECHNIQUES, SEQUENCES AND PROCEDURES FOR COORDINATING WORK UNDER THIS CONTRACT.

11. MAINTAIN THE CONSTRUCTION PREMISES IN A NEAT AND ORDERLY CONDITION AND CLEAN DEBRIS FROM THE SITE AT THE END OF EACH WORKING DAY.

12. IN CASES OF DOUBT AS TO THE WORK INTENDED, OR IN THE EVENT OF NEED FOR EXPLANATION THEREOF, REQUEST SUPPLEMENTARY INSTRUCTIONS FROM THE ENGINEER. NO CHANGES ARE TO BE MADE TO THE WORK OF THIS CONTRACT WITHOUT PRIOR KNOWLEDGE AND APPROVAL OF THE ARCHITECT AND ENGINEER. HOLD THE OWNER AND ITS CONSULTANTS HARMLESS AGAINST CLAIMS AND JUDGEMENTS ARISING OUT OF THE CONTRACTOR'S PERFORMANCE OF THE WORK OF THIS CONTRACT. DO NOT PROCEED WITH ANY WORK, FOR WHICH ADDITIONAL COMPENSATION IS EXPECTED BEYOND THE CONTRACT AMOUNT, WITHOUT AUTHORIZATION FROM THE APPROPRIATE AUTHORITY. FAILURE TO OBTAIN SUCH AUTHORIZATION SHALL INVALIDATE ANY CLAIM FOR EXTRA COMPENSATION.

13. WHEREVER FIRE RATED PARTITIONS OR CONCRETE SLABS ARE PENETRATED BY FEEDER CONDUITS, BRANCH CIRCUIT CONDUIT, CABLING AND CABLE TRAYS; THE PENETRATIONS SHALL BE SEALED WITH CODE APPROVED, LABORATORY TESTED AND LABELED SEALANT OF THE FIRE RESISTANCE RATING, WHICH IS NOT LESS THAN THAT OF THE PENETRATED ASSEMBLY.

14. PACKAGED EQUIPMENT SHALL BE INDEPENDENTLY THIRD PARTY LABELED AS A SYSTEM FOR ITS INTENDED USE BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) IN ACCORD WITH THE OCCUPATIONAL SAFETY HEALTH ADMINISTRATION (OSHA) REGULATIONS, AS WELL AS NFPA 70 (THE NATIONAL ELECTRICAL CODE).

15. USE NEMA TYPE 1 PURPOSED ENCLOSURES FOR ALL INDOOR EQUIPMENT AND NEMA TYPE 3R FOR ALL OUTDOOR EQUIPMENT, UNLESS NOTED OTHERWISE.

16. PANELBOARDS: WHERE EXISTING PANELBOARDS ARE INDICATED TO BE REUSED, PROVIDE NEW CB'S AS REQUIRED FOR NEW BRANCH CIRCUITING SHOWN.

17. CONDUCTORS: ALL CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE. ALL FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER WITH TYPE THW OR THHN INSULATION RATED FOR OPERATIONS AT 600 VOLTS. MINIMUM SIZE OF BRANCH CIRCUIT CONDUCTOR SHALL BE No. 12 AWG UNLESS OTHERWISE NOTED AND/OR SPECIFIED. CONDUCTORS No. 8 AWG AND LARGER SHALL BE STRANDED. CONDUCTORS No. 10 AND No. 12 AWG SHALL BE SOLID .

A. MINIMUM CONDUCTOR SIZE TO BE #12AWG UNLESS NOTED OTHERWISE.
B. ALL CONDUCTORS MUST BE INSTALLED IN CONDUIT, UNLESS NOTED OTHERWISE.
C. A GREEN COLORED INSULATED EQUIPMENT GROUND CONDUCTOR SHALL BE PROVIDED FOR ALL FEEDERS AND BRANCH CIRCUITS. GROUND CONDUCTOR SHALL BE INSTALLED THE SAME RACEWAY AS THE RELATED PHASE AND NEUTRAL CONDUCTORS .

18. CABLES: METAL CLAD CABLE (MC) WITH AN INSULATED GREEN GROUND CONDUCTOR SHALL BE USED IN ALL CONCEALED BRANCH WIRING APPLICATIONS UNLESS OTHERWISE NOTED. TYPE ARMOR CLAD CABLE (AC) OR BX CABLE IS NOT PERMITTED.

A. THE USE OF ROMEX OR BX CABLE IS NOT PERMITTED.

19. INSTALLATION OF CONDUIT AND CABLE:

A. CABLE AND CONDUIT SHALL BE INSTALLED CONCEALED IN FINISHED AREAS. BRANCH CIRCUITS INSTALLED IN UNFINISHED AREAS SHALL BE INSTALLED IN CONDUIT.
B. ALL EMPTY CONDUITS SHALL BE INSTALLED WITH PULL LINES.
C. CONDUITS INSTALLED INDOORS SHALL BE EMT.
D. ALL CONNECTORS FOR SOLID CONDUIT (EMT AND IMC) SHALL BE COMPRESSION TYPE FITTINGS. ALL CONNECTORS FOR FLEXIBLE CONDUIT AND CABLE SHALL BE UL LISTED FOR USE WITH THAT EQUIPMENT.
E. ALL CABLE AND CONDUIT SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO BUILDING LINES AND SHALL BE PROPERLY SUPPORTED AS RECOMMENDED BY THE NEC. THE ABOVE SHALL NOT BE SUPPORTED BY MECHANICAL PIPING OR TIED TO DUCTWORK HANGERS. CABLES SHALL NOT BE SUPPORTED BY OTHER ELECTRICAL CONDUIT.
F. WHERE BRANCH CIRCUIT CABLE ENTERS AN ELECTRICAL ROOM/CLOSET, THE WIRES/CABLES SHALL BE INSTALLED IN CONDUIT . THE CONDUITS SHALL BE PULLED INTO THE ROOM, DRESSED AND TRAINED INTO SINGLE AND DOUBLE ROWS, WHICH ARE NEATLY FASTENED TO KINDORF RACK VIA THE PROPER TYPE OF CABLE PRESSURE CONNECTORS. THE CONDUIT SHALL BE SUPPORTED AND SMOOTHLY TRANSITIONED INTO THE INDICATED BRANCH CIRCUIT PANELBOARD.
G. COORDINATE ALL CONDUITS, AND CABLE RUNS WITH MECHANICAL PIPING AND DUCTWORK TO AVOID CONFLICTS.
H. PROVIDE A DEDICATED EQUIPMENT GROUND CONDUCTOR.
I. FOR WIRE IDENTIFICATION, USE BRADY "QUICK LABELS" ON ALL CONDUCTORS AT THE TERMINATION OF THE RUN AND ALL OUTLETS. CODING SCHEME IS THE RESPONSIBILITY OF THE CONTRACTOR, BUT IS GENERALLY TO FOLLOW THE TERMINAL NUMBERING OF THE PANEL BOARD. ARRANGE THIS CODING SCHEME SO AS TO PROVIDE QUICK AND EASY IDENTIFICATION. IDENTIFY EACH FEEDER CIRCUIT IN PULL AND JUNCTION BOXES WITH ONE (1) INCH HIGH PAINTED NUMBERS ON THE EXTERIOR OF THE BOX AND A STAMPED FIBER TAG ON THE INTERIOR .

21. OUTLET BOXES :

A. AT ALL OUTLETS OF WHATEVER KIND, FOR ALL SYSTEMS, PROVIDE A SUITABLE BOX SPECIFICALLY DESIGNED TO RECEIVE THE TYPE OF FIXTURE OR DEVICE TO BE MOUNTED THEREON. PROVIDE FIXTURE OUTLETS BOXES WITH SUITABLE FIXTURE SUPPORTS OF SIZES AND TYPES REQUIRED FOR THE FIXTURE TO BE INSTALLED.
B. PROVIDE JUNCTION OR PULL BOXES WHERE INDICATED, WHERE REQUIRED TO FACILITATE WIRE PULLING, OR WHERE REQUIRED BY THE NEC. FABRICATED BOXES WITH TWELVE (12) GAUGE MINIMUM GALVANIZED STEEL AND EQUIP WITH SCREW COVER, SIZE BOX PER NEC. LABEL ALL CIRCUITS ON EXTERIOR OF BOX WITH ONE (1) INCH HIGH STENCILED LETTERS.
C. OUTLET BOXES ARE BEING INSTALLED FLUSH IN WALLS SHALL BE RIGIDLY SUPPORTED ON TWO (2) SIDES.
D. ALL OUTLET BOXES SHALL BE, AS A MINIMUM, FOUR (4) INCHES BY FOUR (4) SQUARE, No. 1900 SERIES.

22. WIRING DEVICES:

A. ALL LIGHTING SWITCHES SHALL BE RATED 20 AMPERE 120/277 VOLT AC QUIET TYPE SNAP SWITCHES.
B. PROVIDE NEMA 5-20R DUPLEX 125 VOLT GROUNDING TYPE RECEPTACLES UNLESS OTHERWISE NOTED.
C. RECEPTACLES REQUIRING AMPERAGES, VOLTAGES OR CONFIGURATIONS DIFFERENT FROM DUPLEX RECEPTACLES ABOVE SHALL BE AS INDICATED ON THE DRAWINGS.
D. ALL WIRING DEVICES, SHALL BE IVORY IN COLOR OR APPROVED BY THE ARCHITECT AND MANUFACTURED BY HUBBELL, LEVITON OR APPROVED EQUIVALENT .
E. WHERE MORE THAN ONE DEVICE IS INDICATED, PROVIDE A MULTI-GANG BOX AND A COMMON GANG DEVICE PLATE.

23. TELEPHONE AND DATA OUTLETS:

A. PROVIDE PLASTER RING AND PULL WIRE TO ACCESSIBLE CEILING SPACE. INSTALL PLASTIC BUSHING IN METAL STUD TOP PLATE OR STUD OPENINGS TO AVOID CONDUCTOR DAMAGE, UNO. REFER TO SYMBOLS LEGEND FOR ADDITIONAL INFORMATION.
B. PROVIDE AN OUTLET BOX AND 1" EMPTY CONDUIT WITH PULL STRING WHERE LOCATION IS IN AN INSULATED WALL PARTITION OR DOES NOT HAVE A CLOSE ACCESSIBLE CEILING, UNO. REFER TO SYMBOLS LEGEND FOR ADDITIONAL INFORMATION.

24. PROVIDE CUTTING AND PATCHING AS REQUIRED TO ACCOMPLISH THE ELECTRICAL WORK PORTRAYED ON THE DRAWINGS.

25. LIGHTING FIXTURES:

A. ALL LIGHTING FIXTURES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE, INCLUDING LAMPS. LAMPS SHALL BE OF SAME MANUFACTURER FOR ALL TYPES.
B. ALL FIXTURES SHALL BEAR UNDERWRITERS LABORATORIES LABEL AND SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
C. EXISTING FIXTURES NOTED TO BE REUSED SHALL BE CLEANED AND RELAMPED.
D. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY SUPPORT MEDIA FOR ALL LIGHTING FIXTURES INCLUDING STRUCTURAL MEDIA FOR ALL LIGHTING FIXTURES INCLUDING STRUCTURAL STEEL, ANGLE RODS, ETC. IN GENERAL, FLUORESCENT AND HIGH INTENSITY DISCHARGE FIXTURES SHALL BE SUPPORTED IN A MANNER ACCEPTABLE TO THE LOCAL INSPECTION AUTHORITIES. ALL FIXTURES SHALL BE FIRMLY SUPPORTED FROM BEAMS OR JOISTS.

a. PROVIDE ALL NECESSARY BACKING, BLOCKING AND SUPPORTS FOR WALL MOUNTED FIXTURES.
b. FIXTURES SHALL NOT BE SUPPORTED FROM ROOF DECK.

E. ALL FIXTURES SHALL BE UL LISTED AND APPROVED FOR THE PURPOSE.
F. ALL ADJUSTABLE FIXTURES SHALL BE AIMED AND ADJUSTED DURING EVENING HOURS TO THE SATISFACTION OF THE ARCHITECT.

26. MODIFICATION OF THE EXISTING BUILDING FIRE ALARM SYSTEM:

A. FURNISH AND INSTALL ALL DEVICES, OUTLET BOXES, CONDUIT AND WIRE. FINAL CONNECTIONS AND TESTING FOR EXTENSION OF THE BASE BUILDING FIRE ALARM SYSTEM AS INDICATED HEREIN AND ON THE DRAWINGS.
B. ALL DEVICES SHALL BE COMPLETELY COMPATIBLE WITH THE EXISTING BUILDING FIRE ALARM SYSTEM. THE EXISTING BUILDING SYSTEM MANUFACTURER SHALL BE VERIFIED WITH BUILDING MANAGEMENT PRIOR TO PROCUREMENT. NO DEVIATION WILL BE ALLOWED WITHOUT SPECIFIC AUTHORIZATION FROM BUILDING MANAGEMENT.
C. CONTRACTOR SHALL ENGAGE AND PAY THE BUILDING FIRE ALARM SYSTEM WARRANTY PROVIDER TO MAKE ANY REQUIRED MODIFICATIONS TO THE BUILDING SYSTEM. COORDINATE WITH BUILDING MANAGEMENT.
D. DEVICES TO BE PROVIDED FOR THIS PROJECT INCLUDE, BUT ARE NOT LIMITED TO; NFPA 72 AND ADA COMPLIANT FLASHING STROBE LIGHTS (MINIMUM 75 CANDELA, UNO), COMBINATION STROBE SPEAKERS, VOICE ALARM SPEAKERS AND PHOTOELECTRIC SMOKE DETECTORS.
E. WHERE EXISTING SYSTEM CANNOT SUPPORT ADDITIONAL DEVICES. PROVIDE SYSTEM EXTENDER PANEL FOR ALL NEW CIRCUITS. NEW PANEL SHALL BE UL LISTED AND PROVIDE WITH BATTERY BACK-UP PER NFPA. CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT, WIRING AND DEVICES TO INTERFACE WITH THE EXISTING BUILDING FIRE ALARM SYSTEM PANEL.
F. WHERE MULTIPLE STROBE DEVICES ARE INSTALLED IN A COMMON AREA, PROVIDE SYNCHRONIZED STROBES TO ALLOW FLASH TO OCCUR SIMULTANEOUSLY.
G. WIRING:

1. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN MINIMUM OF 3/4" CONDUIT, EXCEPT USE UL RATED "MC" FIRE ALARM CABLE FROM JUNCTION BOX LOCATED ABOVE CEILING SPACE OVER THE STROBE, DOWN INSIDE THE WALL TO STROBE JUNCTION BOX. WHERE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION (AHJ), THE CONTRACTOR MAY USE UL LISTED, MC FIRE ALARM CABLE.
2. ALL WIRING TO DEVICES SHALL BE SIZED AND INSTALLED PER MANUFACTURERS REQUIREMENTS.
3. FIRE ALARM WIRING SHALL NOT BE INSTALLED IN THE SAME CONDUIT OR JUNCTION BOXES AS POWER AND LIGHTING WIRING.
4. ALL WIRE SPLICING SHALL BE PERFORMED IN JUNCTION BOXES SIZED TO ACCOMMODATE TERMINAL BLOCKS (NUMBER AS REQUIRED). ALL CONNECTIONS SHALL BE MADE WITH APPROVED CRIMP-ON TERMINAL SPADE LUGS, PRESSURE-TYPE TERMINAL BLOCKS OR PLUG CONNECTORS. CABLE TAPS OR T-TAPS WILL NOT BE PERMITTED.

H. FIELD QUALITY CONTROL AND TESTING: ALL TESTING SHALL BE PERFORMED IN THE PRESENCE OF A REPRESENTATIVE OF THE BUILDING MANAGEMENT.

1. DEMONSTRATE THAT THE ENTIRE TENANT FIRE ALARM SYSTEM FUNCTIONS IN ACCORDANCE WITH THE EXISTING BASE BUILDING SYSTEM OPERATION. TEST CIRCUITS OF AUTOMATIC ALARM CONDITIONS, MANUAL ALARM CONDITIONS AND EQUIPMENT SHUTDOWN IN ACCORDANCE WITH THE EXISTING BASE BUILDING SYSTEM OPERATION AND NFPA 72.
2. TEST CONDUCTORS FOR SHORT CIRCUITS USING AN INSULATION-TESTING DEVICE.
3. TEST INDICATING AND INITIATING CIRCUITS FOR PROPER SIGNAL TRANSMISSION UNDER OPEN CIRCUIT CONDITIONS.
4. TEST INDICATING AND INITIATING CIRCUITS FOR PROPER ALARM OPERATION AND RESPONSE AND ANNUNCIATION AT THE MAIN FIRE ALARM CONTROL PANEL.
5. TEST THE EXISTING AND NEW SYSTEMS FOR SPECIFIED FUNCTIONS ACCORDING TO THE EXISTING BASE BUILDING SYSTEM OPERATION. SYSTEMATICALLY INITIATE SPECIFIC FUNCTIONAL PERFORMANCE ITEMS AT EACH STATION, INCLUDING MAKING ALL POSSIBLE ALARM AND MONITORING INITIATIONS AND USING ALL COMMUNICATIONS OPTIONS. FOR EACH ITEM, OBSERVE RELATED PERFORMANCE AT ALL DEVICES AFFECTED BY THE ITEM UNDER ALL SYSTEM SEQUENCES. OBSERVE INDICATING LIGHTS, SIGNAL TONES AND ANNUNCIATION INDICATIONS.
6. RETESTING: CORRECT DEFICIENCIES INDICATED BY TESTING AND COMPLETELY RETEST WORK AFFECTED BY SUCH DEFICIENCIES. VERIFY BY THE SYSTEM TEST THAT THE TOTAL SYSTEM MEETS THE EXISTING BASE BUILDING SYSTEM OPERATION STANDARD.
7. COORDINATE ALL ELECTRICAL DOOR STRIKES/LOCKS.
8. THE ACTIVATION OF FLOOR FIRE ALARM NOTIFICATION DEVICE, SMOKE DETECTORS, PULL STATION ETC., SHALL CAUSE THE RELEASE OF ALL SECURITY DOOR LOCKS/ELECTRIC DOOR STRIKE, AND TO SHUT DOWN HVAC UNITS SERVING THE TENANT AREA.
9. CONTRACTOR SHALL SUBMIT DRAWINGS, SHOP DRAWINGS, AND CUT SHEETS OF ADDED DEVICES TO THE BUILDING MANAGEMENT FOR REVIEW, AND TO COMPLY WITH ALL BUILDING REQUIREMENTS PRIOR TO THE INSTALLATION OF ANY FIRE ALARM DEVICES.

27. SHOP DRAWING SUBMITTALS:

A. COORDINATE, PREPARE AND SUBMIT COMPLETE SHOP DRAWINGS TO THE ARCHITECT & ENGINEER FOR THEIR REVIEW OF ALL NEW EQUIPMENT & MATERIALS BEING PROVIDED FOR THIS PROJECT. REFER TO ARCHITECTURAL SPECIFICATIONS FOR SHOP DRAWING SUBMITTAL PROCESS TO BE FOLLOWED. CONTRACTOR SHALL REVIEW & INDICATE HIS/HER APPROVAL OF EACH SHOP DRAWING PRIOR TO SUBMITTAL FOR REVIEW. ALLOW A MINIMUM OF TEN (10), NON-HOLIDAY WEEKDAYS FOR A COMPLETE REVIEW BY THE ARCHITECT & ENGINEER. DO NOT ORDER, START WORK OR FABRICATION UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED BY THE ENGINEER AND RETURNED TO THE CONTRACTOR.

B. CLEARLY IDENTIFY EACH ITEM ON THE SUBMITTAL AS TO MARK, LOCATION AND USE, USING SAME IDENTIFICATION AS PROVIDED ON DESIGN DRAWINGS. ELECTRONIC SUBMITTALS SHALL BE PRESENTED WITH ALL SHEETS IN ALPHANUMERIC ORDER AND ALL SHEETS ORIENTED WITH TOP OF SHEET UP.

C. SUBMITTALS WILL BE REVIEWED ONLY FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND NOT FOR DIMENSIONS OR QUANTITIES. THE SUBMITTAL REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PURCHASE OF ANY ITEM IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS OR ITS COMPLETE AND PROPER INSTALLATION.

DEMOLITION

1. GENERAL:

A. REMOVE/RELOCATE SUCH WORK AS REQUIRED TO PERMIT NEW CONSTRUCTION.
B. EXCEPT AS OTHERWISE NOTED, ALL EXISTING ELECTRICAL WORK WHICH WILL NOT BE RENDERED OBSOLETE AND WHICH MAY BE DISTURBED DUE TO ANY CHANGES REQUIRED UNDER THIS CONTRACT SHALL BE RESTORED TO ITS ORIGINAL OPERATING CONDITION. OTHER ELECTRICAL WORK OR MATERIAL RENDERED OBSOLETE SHALL BE REMOVED UNLESS OTHERWISE NOTED.
C. WHERE EXISTING ELECTRICAL WORK INTERFERES WITH NEW WORK AND WHERE SUCH INSTALLATIONS ARE TO REMAIN IN USE, THE INSTALLATIONS SHALL BE RELOCATED AND/OR RECONNECTED TO COORDINATE WITH THE WORK INDICATED ON THE CONTRACT DRAWINGS AND AS SPECIFIED. FOR EXISTING INSTALLATION WHICH INVOLVE BASE BUILDING SYSTEMS, OBTAIN APPROVAL OF OWNER'S REPRESENTATIVE PRIOR TO MAKING ANY MODIFICATIONS.
D. WHERE EXISTING RACEWAYS THAT ARE NOT TO BE RE-USED INTERFERE WITH NEW WORK, THESE RACEWAYS SHALL BE REMOVED BACK TO THE NEAREST JUNCTION BOX AND THE OPENINGS BLANKED OFF.
E. MAINTAIN CONTINUITY OF THOSE FEEDERS AND/OR BRANCH CIRCUITS SERVING MULTIPLE ITEMS OF WHICH ONE OR MORE ARE BEING REMOVED. CONDUCTORS AND CONDUITS FOR THOSE ITEMS BEING REMOVED SHALL BE DISCONNECTED AND REMOVED AS FAR BACK TO THE SOURCE AS PRACTICAL. REMOVE BACK TO SOURCE IF POSSIBLE.
F. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT IN THE AREAS TO BE RENOVATED. INCLUDING LIGHTING FIXTURES, SWITCHES, EXPOSED CONDUIT, SURFACE AND FLUSH DEVICE BOXES, DEVICE PLATES, ETC. REMOVE ALL ACCESSIBLE WIRING & CONDUIT BACK TO EXISTING PANELS. CUT BACK, CAP AND ABANDON ALL CONCEALED CONDUITS.
EXCEPTION:

- PANELS, FEEDERS, TRANSFORMERS, FIRE ALARM SYSTEM UNO.
- EQUIPMENT INDICATED ON THE DRAWINGS TO REMAIN.
- EQUIPMENT INDICATED BY BASE BUILDING OWNER TO REMAIN.

G. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND FEEDERS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.
H. CONTRACTOR SHALL CLEAN THE PROJECT SITE AT THE END OF EACH WORKING DAY AFTER REMOVAL OF ALL DEVICES, CONTRACTOR SHALL TURN ALL DEVICES OVER TO OWNER'S REPRESENTATIVE FOR INSPECTION. AFTER INSPECTION BY THE OWNER'S REPRESENTATIVE, ALL UNUSED MATERIALS SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY DISPOSED.
I. HOLES IN FLOORS, WALLS AND CEILINGS TO REMAIN WHICH ARE CAUSED BY DEMOLITION OR REMOVAL OF ELECTRICAL CONDUITS, PANELS, FEEDERS AND EQUIPMENT SHALL BE PATCHED/REPAIRED TO MATCH THE SURROUNDING SURFACE AND TO MAINTAIN REQUIRED FIRE RATING.
J. ALL ELECTRICAL INSTALLATIONS OUTSIDE THE CONSTRUCTION AREA WHICH ARE DISRUPTED OR DAMAGED AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE BUILDING OWNER.

2. PROTECTION:

A. PROTECT FROM DAMAGE ALL EXISTING WORK TO REMAIN. ANY EXISTING-TO-REMAIN OR EXISTING-TO-BE-RELOCATED MATERIALS AND EQUIPMENT DAMAGED DURING THE COURSE OF THE WORK SHALL BE REPLACED WITH MATERIALS AND EQUIPMENT CONFORMING TO THESE SPECIFICATIONS AT NO ADDITIONAL COST TO THE OWNER.

3. TERMINATION AND PATCHING:

A. DISCONNECT EXISTING-TO-BE-REMOVED OR EXISTING-TO-BE-RELOCATED CONDUIT, WIRING, CABLING, AND EQUIPMENT FROM EXISTING-TO-REMAIN POINTS INDICATED. IF NOT INDICATED, VERIFY POINT WITH THE OWNER'S REPRESENTATIVE PRIOR TO DISCONNECTION.
B. CAP EXISTING-TO-REMAIN WALL OUTLETS, JUNCTION BOXES, WITH DEVICE PLATES TO MATCH EXISTING.
C. WHERE EXISTING FLOORS, WALLS AND ROOFS MUST BE CUT OR ARE DAMAGED DURING REMOVAL OR RELOCATION OF ELECTRICAL WORK, PATCH THE CUT OR DAMAGED AREAS TO MATCH ADJACENT CONSTRUCTION.

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
XX ##	BRANCH CIRCUIT HOMERUN. NUMBER OF ARROWHEADS INDICATE NUMBER OF CIRCUITS. 2#12, 1#12G - 3/4" CONDUIT MINIMUM.
CKT NO, 15, m, A, SWITCH CONTROL, TYPE	LIGHT FIXTURE - SEE LIGHT FIXTURE SCHEDULE
	EXIT LIGHTING FIXTURE, SINGLE OR DOUBLE FACE; WITH BATTERY BACK-UP, UNO. BATTERY SHALL BE SIZED AND RATED FOR THE FULL LOAD FOR A MINIMUM OF 90 MINUTES.
	EXIT LIGHTING FIXTURE-SINGLE OR DOUBLE FACE WITH DIRECTIONAL ARROWS AS INDICATED; WITH BATTERY BACK-UP, UNO. BATTERY SHALL BE SIZED AND RATED FOR THE FULL LOAD FOR A MINIMUM OF 90 MINUTES.
\$ \$3 \$4	LIGHTING CONTROL TOGGLE SWITCHES, SINGLE POLE, THREE-WAY, FOUR-WAY. MOUNT +46" AFF UNO.
\$OC	OCCUPANCY WALL SENSOR SWITCH BY WATTSTOPPER: PW SERIES OR APPROVED EQUIVALENT. MOUNT +48" AFF, UNO. SET/WIRE SENSORS FOR MANUAL ON, AUTOMATIC OFF.
GFI; 1 3 5	RECEPTACLE, 20A, 125V - SIMPLEX, DUPLEX, DOUBLE DUPLEX; MOUNT +18" AFF UNO. NUMBER INDICATES CIRCUIT NUMBER. LABEL DEVICE PLATE WITH PANEL ID AND CIRCUIT NUMBER. GFI INDICATE GROUND FAULT CIRCUIT INTERRUPTER.
3	DUPLEX RECEPTACLE, COUNTER HEIGHT, GROUND FAULT CIRCUIT INTERRUPTER TYPE (GFI), 20A, 125V. NUMBER INDICATES CIRCUIT NUMBER. LABEL DEVICE PLATE WITH PANEL ID AND CIRCUIT NUMBER.
	COMBINATION TELEPHONE/DATA OUTLET. PROVIDE BACK BOX AND 3/4" CONDUIT WITH PLASTER RING & PULL STRING FROM BACKBOX UP TO ACCESSIBLE CEILING SPACE. MOUNT +18" AFF UNO.
15 L	SEMI-FLUSH CEILING MOUNTED MULTI-CANDELA VISUAL ALARM (OR FLASHING STROBE), NUMBER INDICATES CANDELA RATING AS SHOWN AND PER UL 1971.
110 AL	SEMI-FLUSH CEILING MOUNTED COMBINATION MULTI-CANDELA AUDIBLE/ VISUAL ALARM, CANDELA RATING PER UL 1971.
	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL.
	BRANCH CIRCUIT OR FEEDER INSTALLED IN CONCRETE SLAB OR INSTALLED BELOW GRADE.

ELECTRICAL ABBREVIATIONS

%	PERCENT	MECH	MECHANICAL
A	AMPS OR AMPERES	MEP	MECHANICAL, ELECTRICAL & PLUMBING
ADA	AMERICANS WITH DISABILITIES ACT COMPLIANCE	N	NEUTRAL
AFF	ABOVE FINISHED FLOOR	NEC	NATIONAL ELECTRICAL CODE
ARCH	ARCHITECT, ARCHITECTURAL	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
AWG	AMERICAN WIRE GAUGE		
BLDG	BUILDING	NFSS	NON-FUSED SAFETY SWITCH
C	CONDUIT; CONDUCTOR	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CB	CIRCUIT BREAKER		
CKT	CIRCUIT	NIC	NOT IN CONTRACT
DWG	DRAWING	NO.; #	NUMBER
ELEC	ELECTRICAL	P	PUMP; POLES
EMT	ELECTRICAL METALLIC TUBING	PH; Ø	PHASE
EX	EXISTING	PNL	PANELBOARD
FLA	FULL LOAD AMPS	QTY	QUANTITY
G; GRD	GROUND	REL	RELOCATED EXISTING
GFI	GROUND FAULT CIRCUIT INTERRUPTER	RCPT	RECEPTACLE
		TYP	TYPICAL
KVA	KILOVOLT AMPERES	UL	UNDERWRITER'S LABORATORY
KW	KILOWATT	UNO	UNLESS NOTED OTHERWISE
LTG	LIGHTING	V	VOLTS
		W	WATT(S); WIRE

D E S I G N
Oella Design
728 Marianne Lane
Catonsville, Maryland 21228
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502 McCormick Drive
Suite M
Glen Burnie, Maryland 21061
Phone (410) 761-9600
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JUDGE'S CHAMBER'S #6
HOWARD COUNTY
DISTRICT COURTHOUSE
3451 COURTHOUSE DRIVE
ELLICOTT CITY, MARYLAND 21043

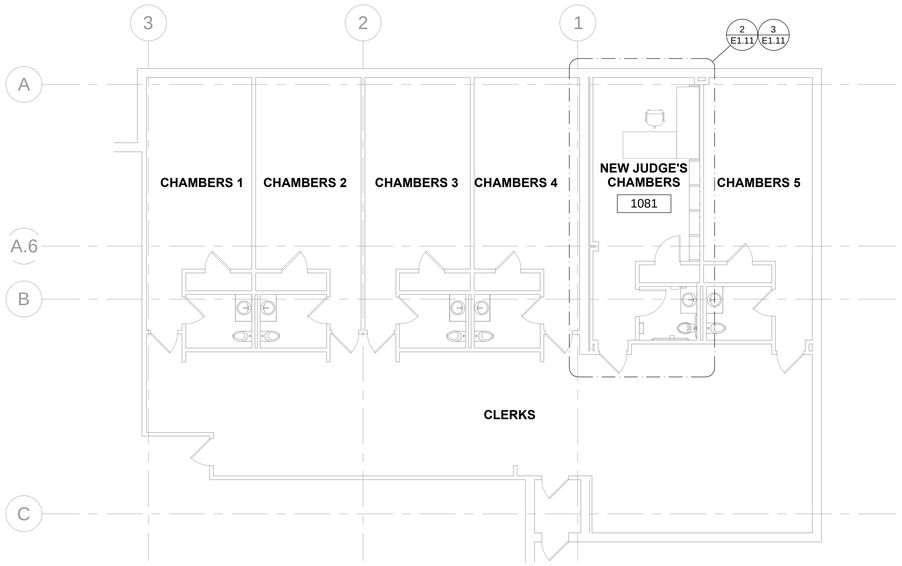
I certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland
License Number: 39920 Expiration Date: 1/17/19

project number
16024 / 2928
project description
JUDGE'S CHAMBERS
scale
As indicated
drawn by
BRT
checked by
BRT
owner
MARYLAND JUDICIARY
contractor
TBD

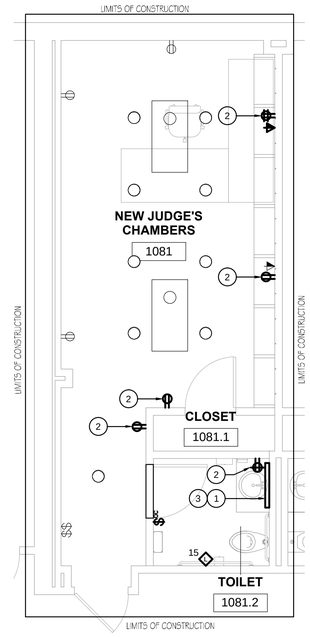
drawing date
03/17/17
revision date
\# date description

sheet title
DATA SHEET - ELECTRICAL

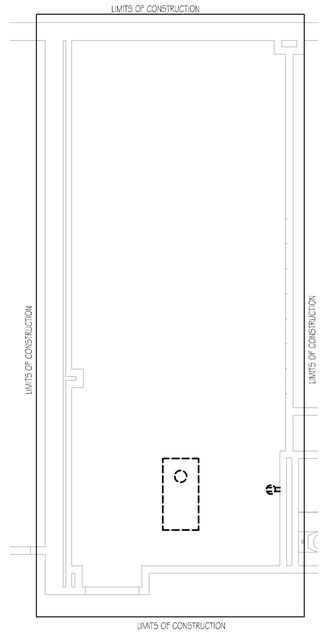
sheet number
E0.01



1 FIRST FLOOR JUDGE'S CHAMBERS
SCALE: 1/8" = 1'-0"



2 FIRST FLOOR - NEW WORK
SCALE: 1/4" = 1'-0"



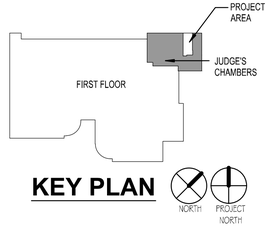
3 FIRST FLOOR - DEMOLITION
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH NEC AND ALL APPLICABLE CODES.
2. REMOVE EXISTING LIGHT FIXTURE(S) INDICATED. REMOVE ALL ASSOCIATED WIRING & CONDUIT BACK TO NEAREST LIGHT FIXTURE. IDENTIFY EXISTING HOMERUN CIRCUIT FOR RE-USE IN NEW LIGHTING PLAN.
3. REMOVE ALL ELECTRICAL DEVICES, INCLUDING RECEPTACLES AND COMMUNICATION OUTLETS INDICATED. REMOVE ALL ASSOCIATED WIRING & CONDUIT BACK TO NEAREST ELECTRICAL DEVICE. IDENTIFY EXISTING HOMERUN CIRCUITS FOR RE-USE IN NEW POWER PLAN.
4. COORDINATE DEMOLITION WORK WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS. PRIOR TO START OF DEMOLITION, IDENTIFY ALL ELECTRICAL DEVICES AND FIXTURES EXISTING TO REMAIN.
5. MAINTAIN CONTINUITY OF EXISTING CIRCUITS THAT WERE DISTURBED DUE TO DEMOLITION.
6. LOCATION AND MOUNTING HEIGHTS FOR ELECTRICAL DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION. REFER TO ARCHITECTURAL DRAWINGS FOR OUTLET AND FACEPLATE COLOR.
7. EXISTING BUILDING FIRE ALARM VENDOR TO PERFORM ALL FINAL TIE-INS. ALL FIRE ALARM DEVICES AND WIRING TO MATCH EXISTING BASE BUILDING, THIS IS TO BE VERIFIED BY THE BASE BUILDINGS FIRE ALARM VENDOR. CONTRACTOR IS RESPONSIBLE TO UPDATED THE BASE BUILDING FIRE ALARM DRAWINGS LOCATED IN THE ENGINEERS OFFICE. THIS ALSO INCLUDES UPDATING THE FIRE ALARM DEVICE ADDRESS BOOK.
8. ALL ELECTRICAL DEVICES SHOWN HEAVY & DASHED SHALL BE DEMOLISHED, UNLESS NOTED OTHERWISE. ALL ELECTRICAL DEVICES SHOWN THIN & SOLID ARE EXISTING, UNLESS NOTED OTHERWISE. ALL DEVICES SHOWN HEAVY & SOLID ARE PROPOSED.
9. CLEAN EXISTING LIGHT FIXTURES, REPLACE BURNED OUT LAMPS WITH PROPER COLOR LAMP AND REPLACE NON-FUNCTIONAL BALLASTS.
10. LOCATION OF OCCUPANCY SENSORS SHOWN FOR REFERENCE ONLY. EXACT LOCATIONS TO BE DETERMINED BY EXACT CONDITIONS & MANUFACTURER'S RECOMMENDATIONS. CONFIRM EXACT SETTINGS WITH MANUFACTURER & ARCHITECT.
11. PROVIDE TYPEWRITTEN SCHEDULES FOR ALL PANELBOARDS UTILIZED AT COMPLETION OF PROJECT, INDICATED ACTUAL AS-BUILT CONDITIONS. SCHEDULES SHALL INCLUDE CIRCUIT NUMBER, EQUIPMENT SERVED, BREAKER TRIP SETTING AND WIRE AND CONDUIT SIZES.

DRAWING NOTES:

1. CONNECT LIGHT FIXTURE TO EXISTING LIGHTING CIRCUIT, DESIGNATED FOR LIGHTING IN THIS AREA, VIA #12 AWG IN 3/4" CONDUIT. CONNECT LIGHT FIXTURE TO CONTROLS INDICATED. A TOTAL OF 96W OF CONNECTED LIGHTING LOAD IS BEING REMOVED FROM THIS CIRCUIT, AND A TOTAL OF 30W OF CONNECTED LIGHTING LOAD IS BEING ADDED, FOR A TOTAL NET GAIN OF -66W TO THE CIRCUIT.
2. CONNECT RECEPTACLE TO EXISTING RECEPTACLE CIRCUIT, DESIGNATED FOR RECEPTACLE POWER IN THIS AREA, VIA #12 AWG IN 3/4" CONDUIT. THE NEW CONNECTED LOAD ON THIS CIRCUIT IS 1620VA.
3. PROVIDE AN ENERGY STAR RATED, BATHROOM VANITY LED LIGHT FIXTURE WITH (4) GLOBES BY HAMPTON BAY: MODEL 5900-SN OR APPROVED EQUIVALENT. THE TOTAL WATTAGE OF LIGHT FIXTURE IS 30W. CONFIRM AESTHETIC OPTIONS AND EXACT MODEL NUMBER WITH ARCHITECT, PRIOR TO BID & INSTALLATION.



COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Howard County Courthouse Judge 6 Chambers Toilet Room
Project Type: Alteration

Construction Site:

Owner/Agent:

Designer/Contractor:
Bryan Taylor
B&R Engineering
502 McCormick Drive, Suite M
Glen Burnie, Maryland 21061
410-761-9600
bryan.taylor@brconstserv.com

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Common Space Types:Office - Enclosed: Exempt			
		Total Allowed Watts =	N/A

Area Category Exemption Qualifications

Activity Area	# Fixtures		Total # Watts	
	Pre-Alt.	Repl./Added	Pre-Alt.	Post-Alt.
Common Space Types: Office - Enclosed (407 sq.ft.)	12	1	828.000	762.000
Exemption: Less than 10% fixture replacement.				

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Common Space Types: Office - Enclosed (407 sq.ft.): Exempt				
			Total Proposed Watts =	N/A

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Project Title: Howard County Courthouse Judge 6 Chambers Toilet Room
Data filename:
Report date: 03/13/17
Page 1 of 3

DESIGN
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sheet title
FLOOR PLANS - ELECTRICAL

sheet number
E1.11