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DRAWING INDEX

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| A-902 | PARTITION TYPES | BUILDING COD | ۲ <u>۲</u> ۰ | INTERNATIONAL BUILDING CODE (IBC) | | |
| F-101 | FURNITURE PLAN - FIRST FLOOR | | | | 2003 ED HIGH | |
| S-100 | GENERAL NOTES | | | | | |
| S-101 | GENERAL NOTES | <u>ACCESSIBILITY</u> | <u>/:</u> | AVERICANS WITH DISABILITIES ACT | | |
| S-102 | TYPICAL DETAILS | | | ICC/ANSI A117.1, REFERENCED BY BUI | LDINGCODE | |
| S-103 | TYPICAL DETAILS | | | | | |
| S-104 | TYPICAL DETAILS | FIRE PREVENT | <u>ION.</u> | INTERNATIONAL FIRE CODE (IFC) 2003 | EDITION, | |
| S-201 | FIRST FLOOR FOUNDATION PLAN | | | | | |
| S-202 | ROOF FRAMING PLAN | MECHANICAL: | | INTERNATIONAL MECHANICAL CODE (I | MC) 2003 EDITION, | |
| S-300 | FOUNDATION SECTIONS | | | | | |
| S-400 | FRAMING SECTIONS | | | | | |
| S-500 | BRACE FRAME ELEVATIONS | ELECTRICAL: | | NFPA 70: NATIONAL ELECTRICAL CODE | = 2005 EDITION | |
| S-600 | COLUMN SCHEDULE & DETAILS | | | | | |
| M-001 | LEGEND, SYMBOLS, NOTES, & ABBREVIATIONS - MECH. | PLUMBING : | | INTERNATIONAL PLUVBING CODE (IPC |) 2003 EDITION | |
| MD-201 | DEMOLITION PLAN - MECHANICAL | | | | | |
| M-201 | FLOOR PLAN - MECHANICAL | | | | | |
| M-202 | ROOF PLAN - MECHANICAL | PROPERTY MA | INTENANCE: | INTERNATIONAL PROPERTY MAINTEN | ANCE CODE (IPMC) 2003 | EDITION. |
| M-801 | DETAILS - MECHANICAL | | | | | |
| M-901 | SCHEDULES - MECHANICAL | | | | | |
| P-001 | LEGEND, SYMBOLS, NOTES, & ABBREVIATIONS - PLUMB. | | | | | |
| PD-201 | DEMOLITION PLAN- PLUMBING | | | | | _ |
| P-200 | FLOOR PLAN - FOUNDATION PLUMBING | BULL | ING INFC | CRIMATION | RATING | S |
| P-201 | FLOOR PLAN - PLUMBING | | | | | |
| P-801 | DETAILS - PLUMBING | <u>USE GROUPS</u> A-3 | ASSEMBLY, LIBRARY | | <u>ELEMENT:</u> COLUMN | <u>RATIN</u> 0 HOL |
| E-001 | LEGEND, SYMBOLS, NOTES, & ABBREVIATIONS - ELECT. | S-1 | - | STORAGE (ACCESSORY USE, SEE LIFE | CORRIDOR | OMN |
| ED-201 | DEMOLITION PLAN - ELECTRICAL LIGHTING | | | SAFETY PLAN, SHEET A-002) | DOOR | OMN |
| | DEMOLITION PLAN - ELECTRICAL POWER | | | | FLOOR | 0HOL |
| ED-401 | | | | | STORAGE | 0HOL |
| E-100 | SITE PLAN & PHASING ELECTRICAL | TYPEIIB | NON-SPRINKLERED, N | NOI PROIECIED | | |
| | FLOOR PLAN & LIGHT FIXTURE SCHEDULE - ELECT. | SEISMCCATE | CORY: | | | |
| | LIGHTING | <u>C</u> | | DELINES FOR REQUIREMENTS | | |
| EP-301 | FLOOR PLAN, ONE LINE & SCHEDULE - ELECT. POWER | AREA | | | | |
| E-401 | FLOOR PLAN - ELECTRICAL DATA | FLOOR | ACTUAL GSF | DESIGN OCCUPANCY: | | |
| E-500 | SCHEDULES - ELECTRICAL | FIRST FLOOR | 9,411 SF | 220 OCCUPANTS | | |
| E-600 | ELECTRICAL DETAILS | | | | | |
| | | ALLOWABLE H | EIGHT AND AREA: | | | |

Scenic Regional Library Scenic Regional Library read, explore, grow St. Clair Branch 515 E. Springfield Re St. Clair, MO 63077 515 E. Springfield Road

WEST ELEVATION

CODE INFORMATION

<u>ALLOWABLE HEIGHT AND AREA:</u> USE GROUP A-3 IS MOST RESTRICTIVE USE. ALLOWABLE HEIGHT AND AREA, IBC TABLE 503 - 2 STORIES AND 9,500 SF.

MCINITY MAP



LOCATOR MAP

<u>RATING:</u>

0 HOUR

OMNUTE

OMNUTE

0 HOUR 0 HOUR





ARCHITECT-OF-RECORD

JEMA 3005 LOCUST ST. ST. LOUIS, MD 63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAIL: SCLARK@JEVASTL.COV

DESIGN ARCHITECT

SAPP DESIGN ASSOCIATES ARCHITECTS 3750 SOUTH FREMONT SPRINGFIELD, MO 65804 T (417) 877-9600 F (417) 877-9696 CONTACT: JAVES STUFFLEBEAV E: STUFFLEBEAV@SDAARCHITECTS.COV



NORTH

am ENGINEER

COCHRAN ENGINEERING 530A EAST INDEPENDENCE DRIVE UNION, MD 63084 T (636) 584-0540 F (636) 584-0512 CONTACT: DAVE VAN LEER E-MAIL: DVANLEER@COCHRAN.COV

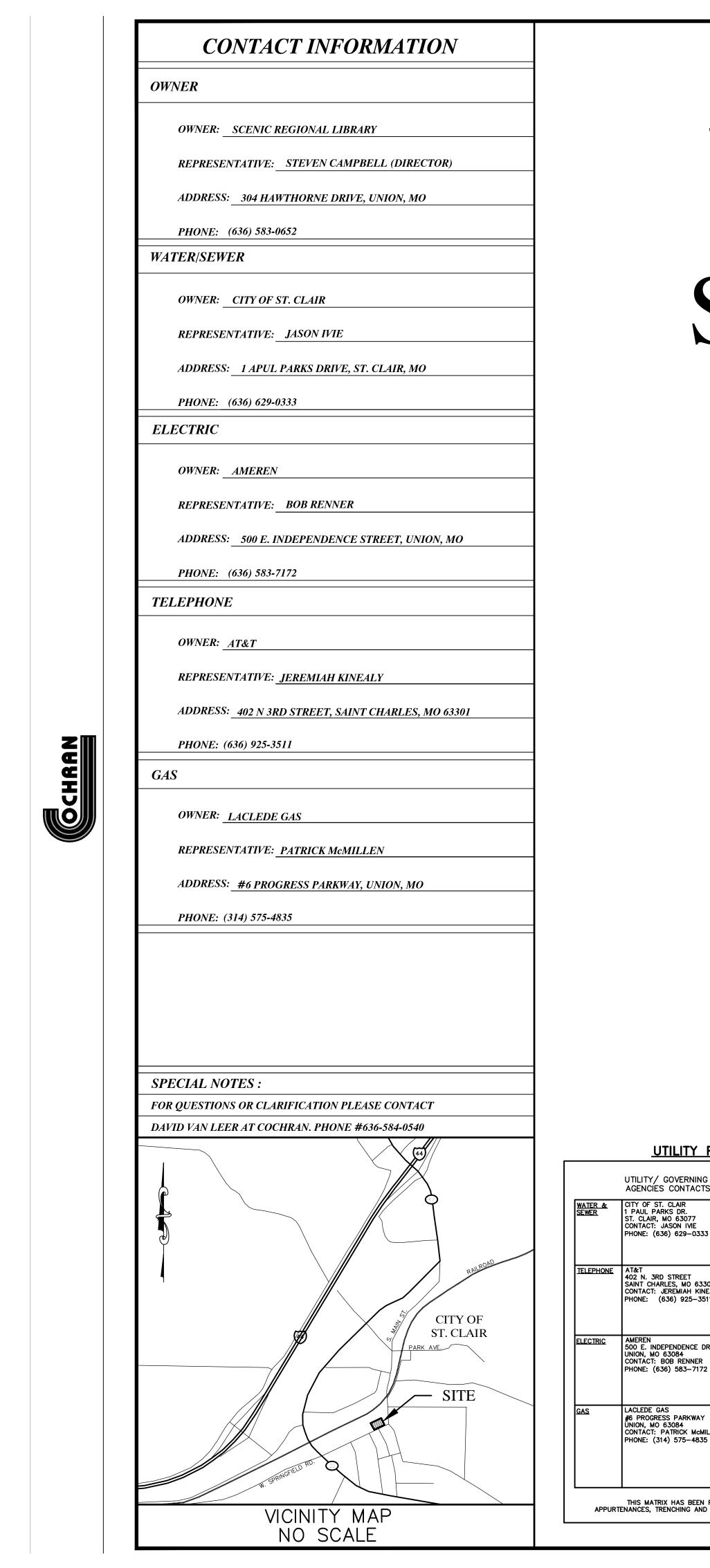
STRUCTURAL ENGINEER

ALPERAUDI, INC. 1804 BORMAN CIRCLE DRIVE ST. LOUIS, MO63146 T (314) 432-8600 CONTACT: STEVE EHRETT E-MAIL: STEVE.EHRETT@ALPERAUDI.COV

MECHANICAL, ELECTRICAL, PLUVBING ENGINEER

BRIC PARTNERSHIP, LLC 138 WEST ADAVIS KIRKWOOD, MD 63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BCOLEVAN@BRICPARTNERSHIP.COV

| Scenic Regic Library read, explore, gr | conal / / |
|---|--|
| SCENIC REGIONAL LIBRARY ST. CLAIR BRANCH 515 E. SPRINGFIELD ROAD | |
| | FARE SDA RCHITECTS |
| APCHTECT JEMA 3005 LCOLISTIST. ST. LCUS, MO 63103 T (314) 531-7400 CONTACT: SCOTTICLARK E-MAIL: SCLARK@JEMASTL.COM APCHTECT SAPP DESIGNASSOCIATES APCHT 3750 SOLITHIFFEMONT SPRINGFIELD, MO 65804 T (417) 877-9600 F (630) 584-0540 F (630) 584-05400 F (| DM D.COM BING 4 |
| JOHNEDWARD MUELLE MOARCHTECTURAL LICENSE A20 MOCERTIFICATE OF AUTHORITY A2 No. Date Descript 07/14/17 ISSUED FC | 010039554 2014008380 tion |
| DRAWN BY: SC/SH | |
| PROJECT NUMBER: 16-1161.0 | 5 |
| A-OOO | С |



SITE IMPROVEMENT PLANS FOR SCENIC REGIONAL LIBRARY **IN THE** CITY OF ST. CLAIR, MISSOURI 515 E. SPRINGFIELD RD.

PROJECT NO. 16-6412



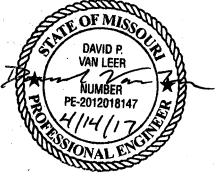
| | UTILITY/ GOVERNING | | |
|----------------------------------|--|--|---|
| | AGENCIES CONTACTS | CONTRACTOR RESPONSIBILITY- | OTHERS RESPONSIBILITY- |
| I <u>ER &</u> I <u>ER</u> | CITY OF ST. CLAIR 1 PAUL PARKS DR. ST. CLAIR, MO 63077 CONTACT: JASON IVIE PHONE: (636) 629–0333 | -INSTALL WATER SERVICE LINE FROM METER INTO BUILDING. | -NONE. |
| <u>EPHONE</u> | AT&T 402 N. JRD STREET SAINT CHARLES, MO 63301 CONTACT: JEREMIAH KINEALY PHONE: (636) 925-3511 | -PROVIDE CONDUIT FROM BUILDING TO RIGHT-OF-WAY. | -PROVIDE AND INSTALL SERVICE UP TO RIGHT-OF-WAY. -PULL CABLE FROM EXISTING INTO BUILDING. |
| <u>CTRIC</u> | AMEREN 500 E. INDEPENDENCE DR. UNION, MO 63084 CONTACT: BOB RENNER PHONE: (636) 583-7172 | -ALL TRENCHING AND BACKFILLING REQUIRED. -PLACE ALL CONDUIT. -RUN SERVICE CABLE FROM TRANSFORMER TO METER. -PLACE TRANSFORMER PAD. | -CONNECT TO EXISTING ELECTRIC. -PROVIDE AND INSTALL TRANSFORMER. -PROVIDE AND INSTALL WIRE FROM EXISTING TO TRANSFORMER. |
| <u>i</u> | LACLEDE GAS #6 PROGRESS PARKWAY UNION, MO 63084 CONTACT: PATRICK McMILLEN PHONE: (314) 575-4835 | -INSTALL ALL GAS LINES ON BUILDING SIDE OF GAS METER AND CONNECT TO METER. | -TRENCH, INSTALL, AND BACKFILL GAS LINES FROM GAS MAIN CONNECTION UP TO METER. -SUPPLY AND INSTALL GAS METER. |
| APPURTE | | ED FOR INFORMATIONAL PURPOSES. THE CONTRACT LL, AND OTHER INCIDENTALS TO MEET OR EXCEED | |







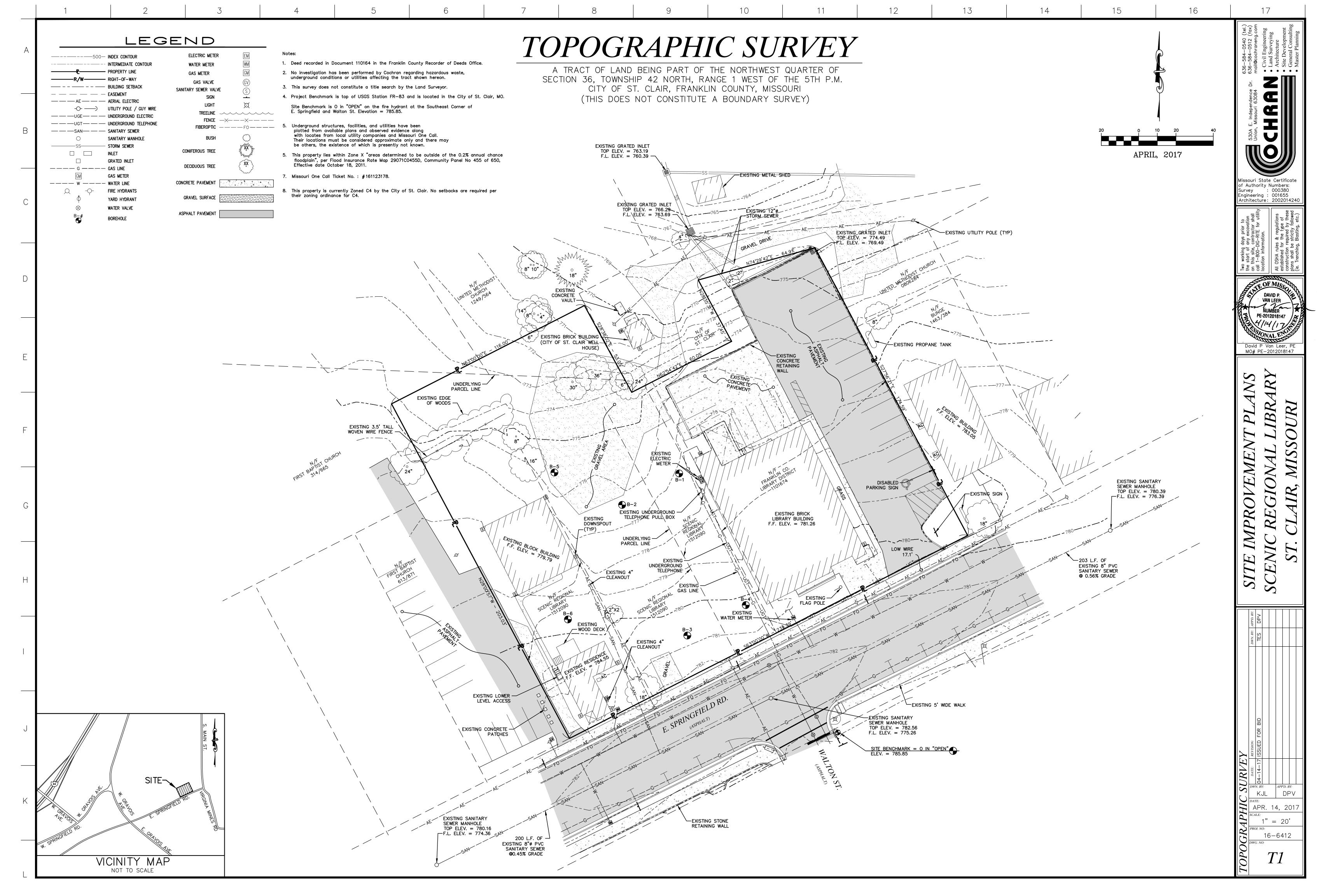
| SHEET INDEX | SHEET |
|--|--|
| TOPOGRAPHIC SURVEY DEMOLITION PLAN SITE PLAN GRADING PLAN UTILITY PLAN DETAIL SHEET DETAIL SHEET | T1 C1 C2 C3 C4 D1 D2 |
| | |



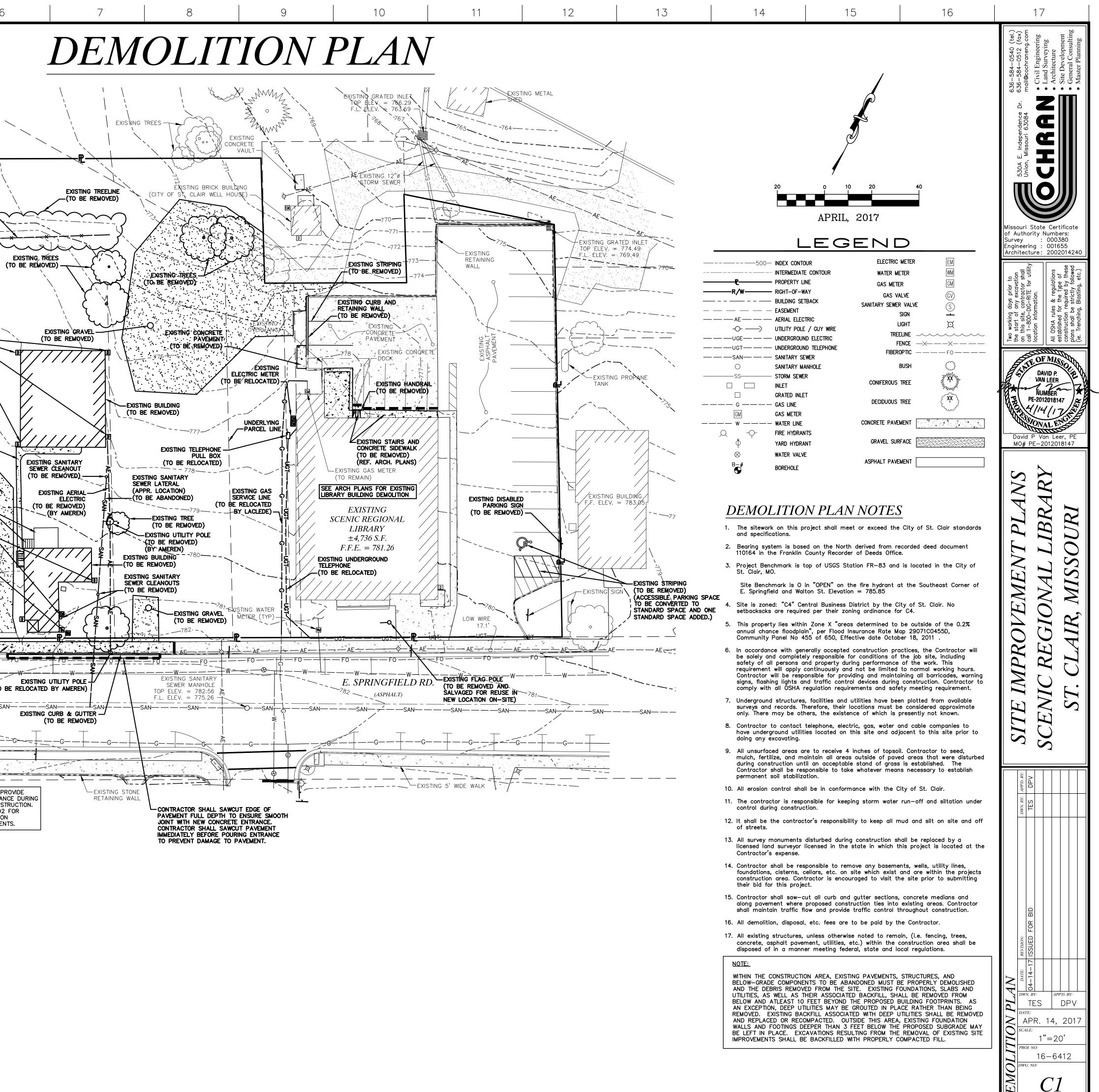
David P. Van Leer No. PE-2012018147 Registered Professional Engineer State of Missouri for Cochran

> Two working days prior to the start of any excavation on this site, contractor shall call 1-800-DIG-RITE for utilit ocation information.

All OSHA rules & regulations established for the type of construction required by these plans shall be strictly followed e. Trenching, Blasting, etc.)

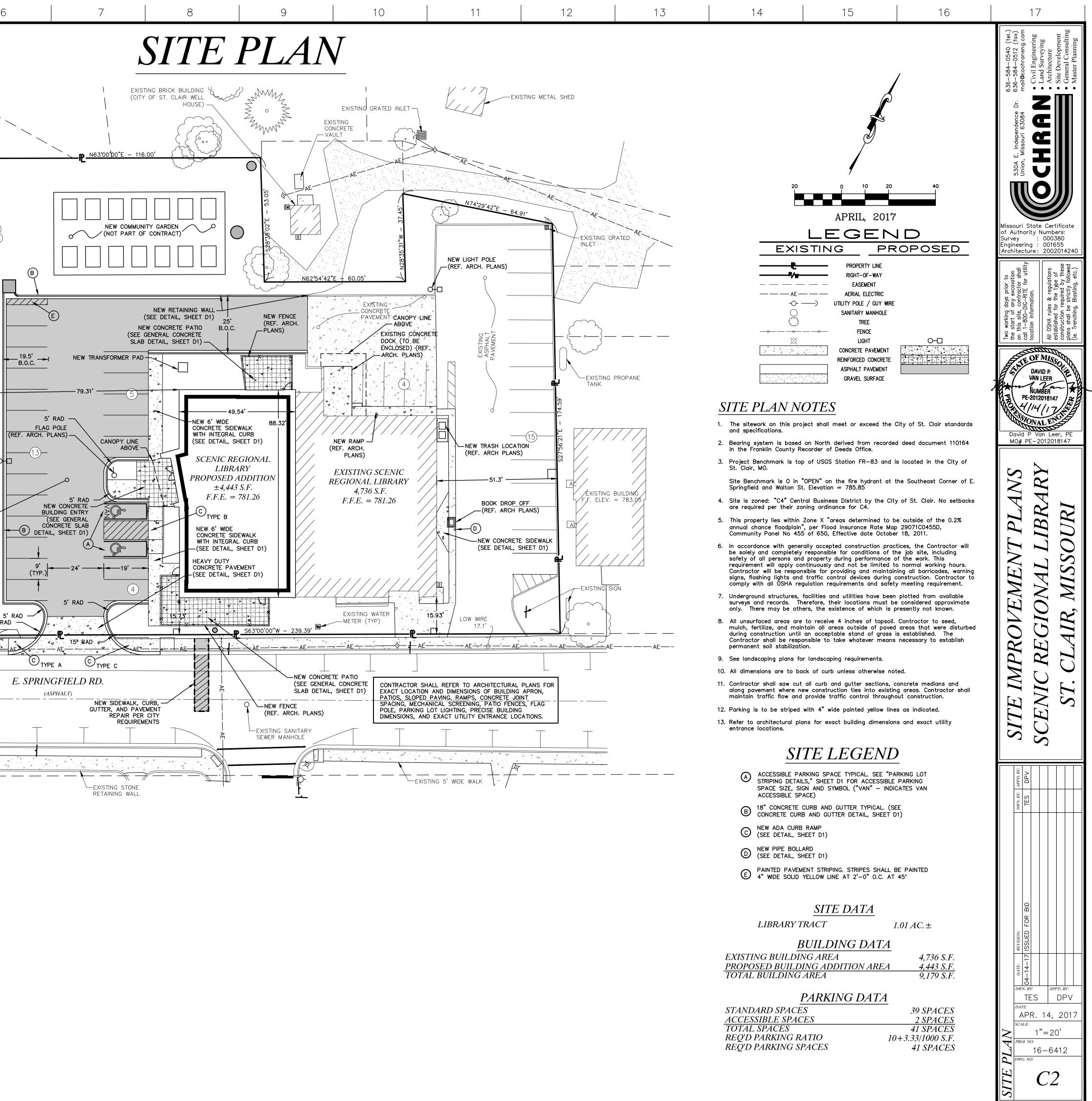


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| A | | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | |
| В | | | | | EXISTING (TO BE RE | FENCE MOVED) |
| С | | | | | | |
| D | | | | | EXISTING DOWNSPOUTS BUILDING APPURTENANCES ETC (TO BE REMOVED) | |
| E | | | | | LINE ULINE ULINE ULINE ULINE HdSV CTO BE RI EXISTING (TO BE RI (TO BE RI | GRAVEL EMOVED) |
| F | | | | | EXISTI AN (TO BE R EXISTING DOWNSPOUTS, APPURTEN (TO BE EXISTING WATE (TO BE R (CONTRACTO COORDINATE W | ER METER |
| G | | | | - AE | EXISTING CONCRETE - PATCHES | F0 |
| Н | | | | | (REMOVED TO NEAREST JOIN AT OR BEYOND DEMO LIMIT SAN | 18 ¹² (to Bi s) AN |
| | | | | | CONT CONS ALL P SEE D MINIMI ENTRA | RACTOR SHALL PRO TRUCTION ENTRANC PHASES OF CONSTR DETAIL, SHEET D2 I JM CONSTRUCTION ANCE REQUIREMENT |
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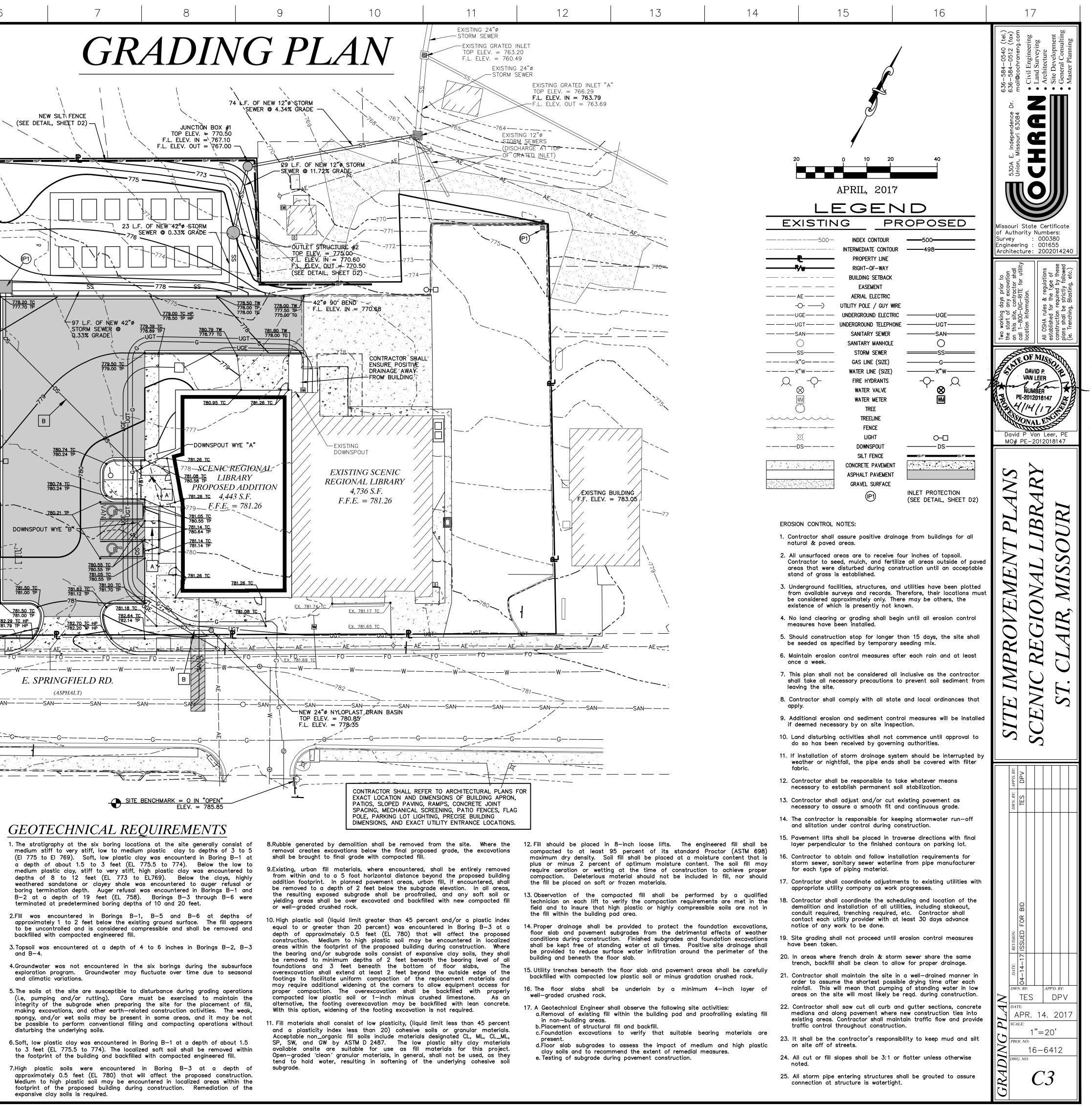
| | 1 | 2 | 3 | 4 | 5 | 6 |
|-------|---|---|---|--|--|------------------------------------|
| A | | | | | | |
| В | | | | | | |
| С | | | | | | |
| D | | | | | EXISTING UTILITY POLE W/LIGHT | |
| E | | | | | NEW LIGH | N28'00'57"W - 203.03' |
| F | | | | | (REF. ARCH. STANE ASPHALT (SEE DETAIL, EXISTING CONCRE | DARD-DUTY PAVEMENT SHEET D1) |
| G | | | | | AEAEAE | |
| Н | | | | CONTRACTOR CONSTRUCTIO ALL PHASES SEE DETAIL, MINIMUM CON ENTRANCE RI | RELOCATED UTILITY POLE (BY AMEREN) | |
| | | | | | | |
| J | | | | | | |
| K | | | | | | |
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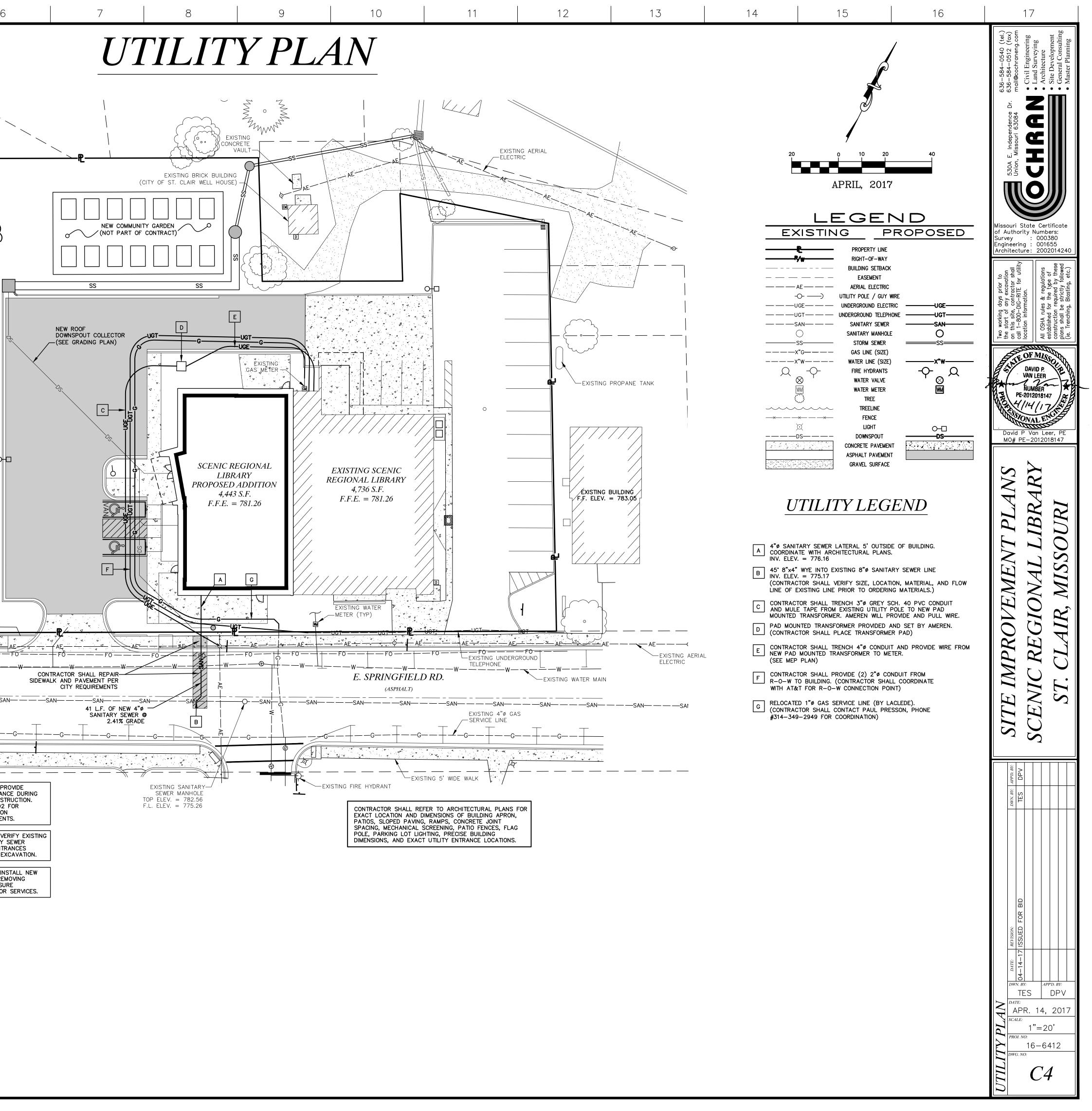
| | 1 | | 2 | | 3 | | 4 | | 5 | | 6 |
|-------|---|--|---|--|--|--|---|---|--|---|---|
| A | GRADING 1. The sitework on th standards and spe 2. Bearing system is 110164 in the Fran 3. Project Benchmark of St. Clair, MO. | nis project shall cifications. based on North klin County Rec | meet or excee derived from r order of Deeds | d the City of S recorded deed d Office. | St. Clair ocument | | | | | | |
| В | Site Benchmark is of E. Springfield an 4. Site is zoned: "C4 setbacks are requi 5. This property lies annual chance floc Community Panel 6. In accordance with will be solely and including safety of This requirement w | nd Walton St. El " Central Busine red per their zo within Zone X " doplain", per Flo No 455 of 650, generally accep completely respo all persons and vill apply continu | levation = 785. ess District by t areas determine od Insurance Ro Effective date pted construction onsible for cond d property durin Jously and not | 85 for C4. ed to be outside te Map 29071C October 18, 20 on practices, the litions of the jo og performance be limited to no | Clair. No e of the 0.2% 0455D, 11. e Contractor b site, of the work. ormal working | | | | | \ <u></u> | |
| C | hours. Contractor barricades, warning construction. Contrastruction. Contrastruction 7. Underground struct surveys and record approximate only. not known. 8. No investigation hor underground condition | i signs, flashing ractor to compli- juirement. tures, facilities of ls. Therefore, t There may be as been perform | lights and traf y with all OSHA and utilities hav their locations r others, the exist ned by Cochran | fic control devic regulation requ ve been plotted nust be conside stence of which reaarding hazar | irements and from available red is presently dous waste. | | | | - | | |
| | 9. Contractor to cont have underground to doing any excar 10. All unsurfaced ar mulch, fertilize, an disturbed during ca The Contractor sho establish permaner 11. See Landscaping | utilities located vating. d maintain all c onstruction until all be responsibl ot soil stabilizati Plans for landso | on this site an live 4 inches of areas outside of an acceptable le to take what ion. caping requirem | d adjacent to t topsoil. Contra f paved areas ti stand of grass ever means nec ents. | this site prior ctor to seed, nat were is established. ressary to | | _ | | CURB TOP ELEV. = F.L. ELEV. IN = | | |
| D | All grading, drain with the City of Si existing utilities as utility companies of information is not Contractor must c location of utilities all existing utilities All trenches under compacted to meet | t. Clair Standard s specifically cau s shown on thes ind, where possi to be relied on all the appropria . It shall be the , which conflict er paved areas s | ds. tioned that the plans is base abeing exact ate utility comp e responsibility with the new i shall be backfille | e location and/o ed on records o ents taken in th t or complete. ony to request of the Contract mprovements sh ed with granular | or elevation of f the various e field. The The exact field or to relocate town on plans. | | | | F.L. ELEV. OUT = | | |
| E | 15. All survey monum licensed land surve the Contractor's e 16. Contractor to obt from pipe manufac shall be reinforced bitumen gaskets a HDPE pipe, AASHTO 17. Contractor shall o utility company as | eyor licensed in xpense. tain and follow i cturer for each concrete pipe, t joints. Storm D M252 Type S coordinate adjus | the state in wh installation requ type of piping i Class III per AS sewer pipe ins and M294 Type stments to exist | nich this project irements for st material. Storm STM C—76, with stalled in green & S. | orm sewer sewer pipe plastic areas may be | | | | | NEW SILT DETAIL, SH | |
| F | 18. Contractor shall a installation of all u required, etc. Cor days advance notic 19. Contractor shall p sewer and waterlin sewers and waterlin necessary. 20. Contractor shall s storm sewer struct of any structures. | utilities, including Itractor shall co ce of any work provide a minim es and a minim nes. This may submit shop dra | g stakeoùt, con ontact each utili to be done. um of 18" of c um of 18" of c mean that lowe | duit required, tr ity provider with clearance betwee clearance betwee ering of waterlin ary sewer, wate | enching at least 30 en sanitary en storm es may be r main, and | | | | | | |
| G | Storm and sanita calculated from th All trenching, pip OSHA Regulations. Utility Contractor jurisdiction over th All necessary insp County, and/or uti announced building Contractor is enc this project. | e center of all e laying, and bo shall have appr is system prior pections, testing lity service com possession and | structures. ackfilling shall b roval of all gove to installation. g, and/or certifi panies shall be d the final conn | e in accordance erning agencies ications required performed prio lection of servic | with Federal having by codes, the r to es. | | | | - | | |
| | 26. Contractor shall r assume the shorte that pumping of s required during cor 27. Contractor shall s along pavement wh shall maintain traf 28. All existing struct concrete, asphalt p removed and dispor regulations. Any but | est possible dryin tanding water in nstruction. saw cut all curb here new constru- fic flow and pro tures unless oth pavement, utilitie sed off—site in | ng time after e n low areas on o and gutter se uction ties into ovide traffic con nerwise noted to es, etc.) within a manner mee | ach rainfall. Th the site will ma ctions, concrete existing areas. trol throughout p remain, (i.e. f the constructio ting local and s | his will mean ost likely be Contractor construction. encing, trees, n area shall be tate | 9 | CONTRAC CONSTRU ALL PHA SEE DET MINIMUM | CTOR SHALL | ANCE DURING ISTRUCTION. D2 FOR ION | | |
| H | and the Owner's S 29. All cut or fill slop 30. Existing grade co at 1 foot intervals 31. If any existing st be the Contractor' structure as neces | pecifications. bes shall be 3:1 ntours shown at ructures to rem s responsibility isary to return i | l or flatter unle t 1 foot interva ain are damage to repair and/o it to existing co | ess otherwise no ls. New grade c ed during constr or replace the e onditions or bet | nted. ontours shown uction it shall xisting ter. | Soil Pre | - paration and Compactio | | | 4 | |
| Ι | 32. Contractor shall of space and paved of 33. It shall be the contract of streets. 34. Land disturbing a been received by contract been taken. | preas. ontractor's respo ctivities shall no joverning agenci | onsibility to kee ot commence u les and until all | p all mud and ntil approval to erosion control | silt on site do so has | from th After th entire s a minim compac of one characte The ma | ximum thickness of fill | trip all topso n organic mo areas that a and the co not less th tic—tired roll shall be in | bil from the entire atter, and after st re cut to subgrade mpacted by proof an 400 psi based ler of equivalent c hifts not to exceed | area to b ripping of e shall be rolling wit on the co ompaction I 8 inches. | be graded. topsoil, the scarified to th suitable ontact area . The proof |
| J | | WNSPOU RUCTURE STRUCTURE NUMBER VNSPOUT WYE "A | INFORMAT top elev. A" — | | | produce D-698). replaced during p densifica plasticit should l foundati specifica | nd the fill compaction at least 95% of the S Any soft areas encour with a properly compa- placement by a qualified ation is taking place. A y soils as approved by be allowed to pond on ons and slabs shall be ations. Compaction equi illing operations. | tandard Prod ntered during acted fill. The soil technic All fill used the soils en the surface. in accordan | ctor Maximum Dry proof rolling shal compaction of th cian to determine on the site should gineer. After proof The earthwork fo ce with architecture | Density Te I be under he fill shal if the prop consist o rolling, no or all build ral building | est (ASTM rcut and per f low o water ing g plans and |
| K | ■ 6"∅ (1.0 ■ 8"∅ (1.0 ■ (1.0 | WNSPO SCH 40 PVC D 00% MIN. GRADE SDR 35 PVC D 00% MIN. GRADE | DOWNSPOUT LAT) DOWNSPOUT COL) NFIRM DOWNSPO | ERAL | | Rock Pr Prior to benched mixture should t less tha should t means a soil to placed i or cons Where t are not | eparation and Compacti fill placement, vegetati . The fill materials pla and blasted rock gener be well graded with part t 18 inches in diameter be separated and broke or the boulders should b echnician. We recommer n areas where they will truct basements, or wit he larger boulders are p present around them. off" voids around the lo | ion should b rated from t ticle sizes ra r. Boulders using a tra be placed in be encount hin 2 or 3 placed, care It may be | site will consist pr he site. The shot anging from sand of larger than 18 inc ck hoe with a bre non-critical fill a ders larger than 18 ered when excavat feet of the street should be taken to necessary to place | imarily of rock fill r and silt to thes in dia aker or by reas, as a 8 inches n ing to inst subgrade to ensure | a rock/soil materials b boulders meter y other approved by not be tall utilities level. that voids |
| | | | | | | inches i vibrator achieved density the fill. | rock and shot rock sho n loose thickness and c y roller weighing at leas l without vibratory roller tests will generally be c Therefore, performance observing the placement | compacted b st 10 tons. r. Due to t considered ir e criteria wil | y a minimum of f Proper compaction he varying graduat appropriate to det I be used to evalu | ive passes n may not ion of fill termine the late the fi | a of a be materials, e quality of III. This |

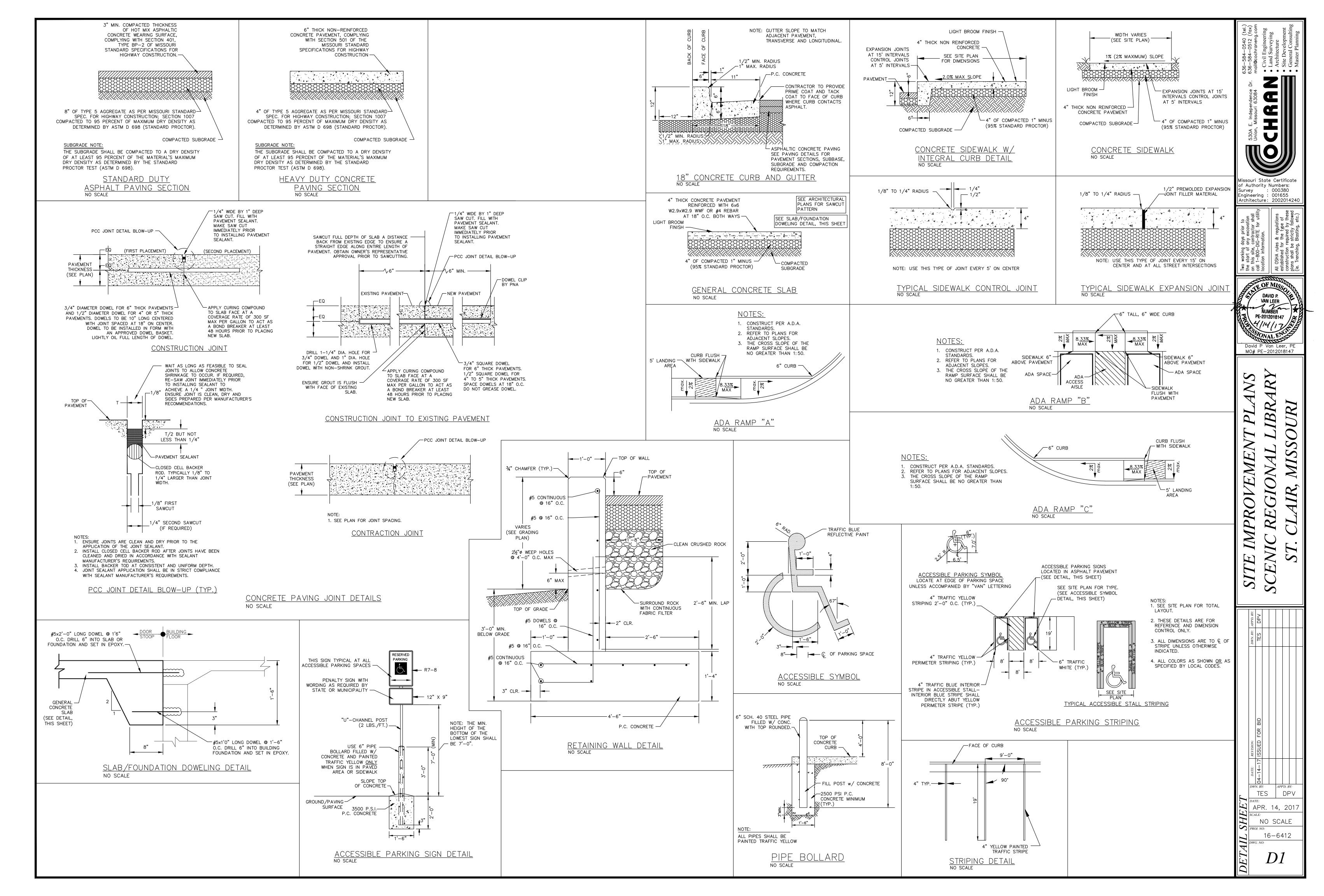
involves observing the placement of each lift of fill and the effects of the

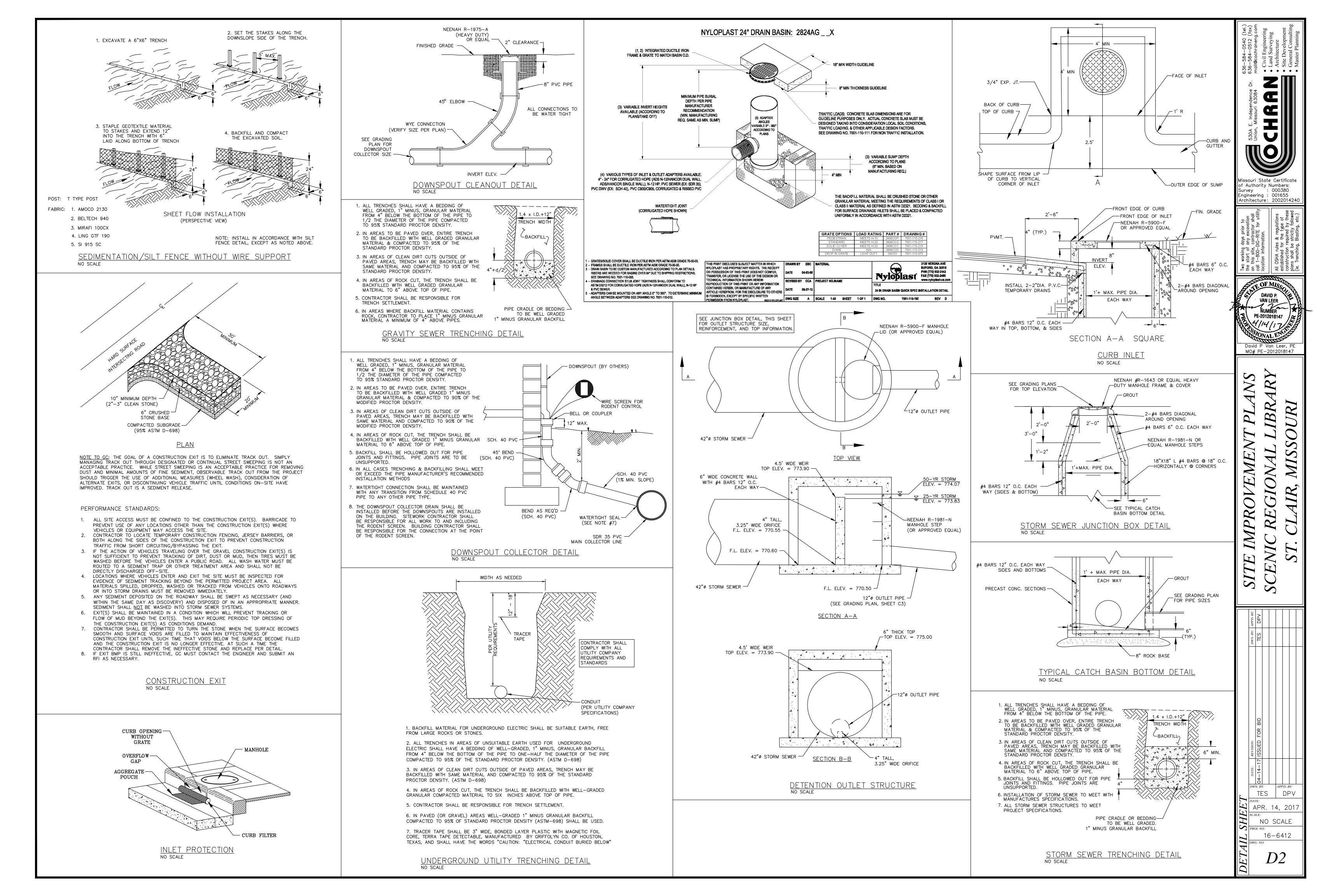
compaction equipment prior to placing additional fill.



| | UTILITY | PLAN I | NOTES | | | | | |
|----|--|---|--|--|---|--|------------------------|--|
| | and specification | ns. | | eed the City of St. Clai | | | | |
| | in the Franklin | County Record | er of Deeds Office | recorded deed docume a. 83 and is located in th | | | | |
| | St. Clair, MO. Site Benchmark | is 0 in "OPEN | ۲" on the fire hyd | rant at the Southeast (| - | | | ` < |
| | 4. Site is zoned: " | 'C4" Central B | vation = 785.85 usiness District by ordinance for C4. | the City of St. Clair. N | lo setbacks | | | |
| | 5. This property lie | es within Zone | X "areas determi | ned to be outside of th Rate Map 29071C0455D | e 0.2% | | | |
| | 6. In accordance w | ith generally o | accepted construct | Rate Map 29071C0455D, e October 18, 2011. tion practices, the Cont | ractor will | | | |
| | safety of all pe requirement will Contractor will I sians, flashina I | rsons and pro apply continu- be responsible iahts and traf | perty during perfo ously and not be for providing and fic control devices | ons of the job site, inc rmance of the work. Th limited to normal workir maintaining all barricad during construction. Co Ind safety meeting requ | s ig hours. es, warning intractor to | | | |
| | surveys and rec | ords. Therefo | re, their locations | ave been plotted from (must be considered ap hich is presently not kr | proximate | | | |
| | 8. No investigation | has been per | formed by Cochra | n regarding hazardous v tract shown hereon. | | | | |
| | 9. Contractor to c underground util any excavating. | ontact telepho ities located o | one, electric, gas, on this site and a | water and cable compa djacent to this site pric | nies to have r to doing | | J. | ل م |
| | 10. The Contractor existing utilities | as shown on | these plans is ba | e location and/or eleva sed on records of the y | /arious | | | |
| | information is n must call the a | ot to be relie ppropriate util | d on as being exc itv company to re | nents taken in the field Ict or complete. The C quest exact field locatic ntractor to relocate all | ontractor n of | | | |
| | 11. All trenches und | der paved area | as shall be backfill | ntractor to relocate all nts shown on plans. ed with granular materi | al and | | | |
| | 12. All survey monu | ments disturb | ed during construc | or the road/parking lot. ction shall be replaced l which this project is loc | oy a | | | |
| | the Contractor's | s expense. | | which this project is loc ting utilities with approp | | | | |
| | company as wo | rk progresses. coordinate th | e schedulina and | location of the demoliti | on and | | | -0- |
| | installation of a | ll utilities, incl r shall contact | uding stakeout, co t each utility provi | onduit required, trenchin der with at least 30 do | g reguired, | | | |
| | and waterlines o | and a minimur | n of 18" of cleard | clearance between sanito ince between storm sew iterlines may be necess | ers and | | | |
| 1 | 6. Contractor shall sewer structures | submit shop | drawings for sanit | ary sewer, water main, proval prior to fabricatio | and storm | 0 | | |
| 17 | structures. 7. Storm and sani calculated from | tary sewer pla the center of | n information depi all structures | cts pipe lengths and gr | ades | | | |
| 1; | | pe laying, and | | be in accordance with F | ederal | · | | |
| 19 | - | or shall have c | ipproval of all gov allation. | erning agencies having | urisdiction | | | |
| 2 | County, and/or | utility service | | ications required by coc be performed prior to an services. | | | | |
| | | | | to submitting their bid | for this | | 0 | |
| 2 | 2. Contractor shall alona pavement | where require | curb and gutter se d for utility trench c control througho | ections, concrete mediar ning. Contractor shall m ut construction | s and aintain | | | |
| 2 | 3. All existing stru | ctures unless | otherwise noted t | ut construction. o remain, (i.e. fencing, n the construction area | trees, shall be | | | |
| | removed and di | sposed off—sit site shall be | e in a manner me | n the construction area eeting local and state ro nd state ordinances and | egulations. | | | |
| 24 | 4. If anv existina s | structures to r | remain are damage to repair and/or | ed during construction i replace the existing str better. | t shall be ucture as | | | |
| 2! | 5. It shall be the | | | better. ep all mud and silt on s | | | | (M |
| | of streets. | | | | | | | |
| | | | | | | - — — AE — — — — RELOCATED UTILITY (BY AMI | | |
| | | | | | | · | EXISTING FIE OF | |
| | | | | | | -SANSAN | SAN- | SAN- ≤ |
| | | | | | | EXISTING 8"Ø PVC – SANITARY SEWER | <u> </u> | -G |
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| | | | | | | | | TOR SHALL PRO CTION ENTRANCI |
| | | | | | | | ALL PHAS SEE DETA | SES OF CONSTRUCTION |
| | | | | | | | ENTRANCE | E REQUIREMENTS |
| | | | | | | | WATER A | TOR SHALL VER ND SANITARY S BUILDING ENTRA |
| | | | | | | | PRIOR TO |) START OF EXC |
| | | | | | | | UTILITIES OLD UTILI | TOR SHALL INST PRIOR TO REMO ITIES TO ENSURI |
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REMOVE METAL STUD AND GYP. BD. FURRING WALL DOWN TO CMU WALL. REMOVE ALL PIN MOUNTED SIGNAGE, SIGNAGE IS NOT 12 POWERED. REMOVE ADA POWERED DOOR SWITCH, SEE PLANS FOR REPAIR 13 AT THIS AREA.

REMOVE TOP OF WALL COPING TH FOR NEW WALL CONDITION. ALL EXISTING SHELVING AND FUR SCENIC REGIONAL LIBRARY STAF CONSTRUCTION.

25

26

| | | KETED NOTES - DEIVIO | | |
|--|-------------------|---|-------------------|------------------------------|
| RIPTION | KEYNOTE NUMBER | DESCRIPTION | KEYNOTE NUMBER | |
| SEE PLANS FOR REPAIR AT | 26 | REMOVE SOFFIT MOUNTED LIGHT FIXTURES AND RETAIN ELECTRICAL CONNECTION FOR NEW FIXTURE, REFER TO | 38 | REMOVE STON DETAIL FOR NE |
| ANS AND ELEVATION FOR NEW | 27 | ELECTRICAL DRAWINGS. REMOVE EXT. WALL MOUNTED LIGHT FIXTURES AND RETAIN | 39 | REMOVE STON DOWN TO SHE |
| TER HEATER, REFER TO TIONS. | 21 | ELECTRICAL CONNECTION FOR NEW FIXTURE, REFER TO ELECTRICAL DRAWINGS. | 40 | AREA. |
| K AND FAUCET, REFER TO | 28 | EXISTING 2X4 CEILING GRID TO REMAIN. ALL CEILING TILE TO BE REMOVED. | | POWER AND D |
| TIONS. URINAL, LAV., GRAB BARS AND LUMBING DWGS. FOR | 29 | REMOVED. REMOVE CEILING GRID, TILES AND ALL LIGHTING THIS AREA IN PREP. FOR NEW CONDITION. | 41 | REMOVE AND REQUIRED. |
| OR FRAME TO REMAIN, SEE | 30 | REMOVE CEILING GRID, TILES, LIGHTING AND EXHAUST FAN THIS ROOM IN PREP. FOR NEW CONDITION. | | |
| NFO. | 31 | REMOVE AND DISCARD 2X4 LIGHT FIXTURE, REFER TO CEILING PLAN AND ELECTRICAL FOR NEW LIGHTING CONDITION. | | |
| BING DWGS. FOR | 32 | REMOVE AND DISCARD SUPPLY AIR GRILLE, REFER TO MECHANICAL DRAWINGS FOR NEW CONDITION. | | |
| TO CONCRETE SLAB. IET, SINK AND ALL PLUMBING. | 33 | REMOVE AND DISCARD RETURN AIR GRILLE, REFER TO MECHANICAL DRAWINGS FOR NEW CONDITION. | | |
| JARDRAIL AND WALL MOUNTED | 34 | REMOVE AND DISCARD UTILITY STRIP LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS FOR NEW CONDITION. | | |
| THIS PORTION OF WALL IN PREP | 35 | REMOVE STONE WINDOW SILL IN PREP FOR WALL IN-FILL AT EXISTING WINDOW OPENING. | | |
| | 36 | REMOVE AND DISCARD DECORATIVE TRACK MOUNTED LIGHT FIXTURES AND TRACK. | | |
| RNITURE TO BE REMOVED BY FF IN PREP FOR | 37 | REMOVE EXIT SIGN. | | |

GENERAL NOTES - DEVOLITION

- PROMDE TEVPORARY BARRICADES AND OTHER FORVIS OF PROTECTION AS REQUIRED TO PROTECT OWNER'S AND CLIENT'S PERSONNEL AND GENERAL PUBLIC FROMINIURY DUE TO SELECTIVE DEVOLITION WORK.
- ERECT AND MAINTAIN DUST-PROOF PARTITIONS AND CLOSURES AS REQUIRED TO PREVENT SPREAD OF DUST OR FUMES TO OCCUPIED PORTIONS OF THE BUILDING. PROTECT MECHANICAL SYSTEMAS REQUIRED.
- CONDUCT SELECTIVE DEVOLITION OPERATIONS AND DEBRIS REVIOVAL IN A MANNER TO ENSURE MNIMUMINTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES.
- MAINTAIN FIRE PROTECTION SERVICES DURING SELECTIVE DEVOLITION. COVER AND PROTECT EQUIPMENT AND FIXTURES INDICATED "TO REVAIN" FROM SOLAGE OR
- DAVAGE. LOCATE, IDENTIFY, STUB OFF, AND DISCONNECT UTILITY SERVICES THAT ARE NOT INDICATED TO REMAIN.
- PERFORM SELECTIVE DEVOLITION WORK IN A SYSTEMATIC MANNER
- WHERE INDICATED ON DRAWINGS AS "SALVAGE AND STORE," CAREFULLY REMOVE INDICATED ITEVS, CLEAN, STORE, AND REUSE AS REQUIRED. DELIVER UNUSED ITEMS AT COMPLETION OF PROJECT TO CLIENT.
- WHERE INDICATED ON DRAWINGS AS "SALVAGE AND DELIVER TO OWNER," CAREFULLY REVOVE INDICATED ITEVS, CLEAN, STORE, AND RETURN TO OWNER
- U.N.O. REVOVE ALL EXISTING FLOORING (CARPET TILE, BROADLOOM CARPET, RESILIENT 10. FLOORING, VINYL COMPOSITION TILE, CERAMIC TILE, STONE TILE, ALL BASE, ETC.) WITHIN SCOPE OF WORK AREA. CLEAN AND PREPARE CONCRETE SLAB FLOOR AREA TO RECEIVE NEW FLOORING MATERIALS, INCLUDING REVOVAL OR SEALING OF ANY REVAINING EXISTING ADHESIVE AS REQUIRED, PATCHING CRACKS, AND LEVELING OF FLOOR TO MEET REQUIRED TO LERANCES FOR SCHEDULED FINISHES. PERFORMINOISTURE TESTING ON FLOOR TO DETERMINE IF EXTENSIVE FLOOR PREP IS REQUIRED.
- U.N.O. REVOVE ALL EXISTING WALLS, PARTITIONS, PANELS, SHELMING, CASEWORK, GLASS, ETC. 11. REMOVE ALL WALL-MOUNTED TACKBOARDS, WHITEBOARDS, FABRIC-WRAPPED PANELS, ETC. IN ALL ROOVIS IN SCOPE OF WORK.
- REMOVE ALL EXISTING ACCUSTICAL CEILING TILE, DRYWALL CEILINGS, COVES, ALL CEILING 13. SUSPENSION SYSTEMS, AND ALL CEILING ELEMENTS INSTALLED IN CEILINGS. IN AREAS WHERE DEVOLITION OCCURS AND THE ADJACENT SUSPENDED ACOUSTICAL CEILING
- SYSTEMIS INDICATED TO REVAIN, PATCH EXISTING ACOUSTICAL CELLING GRID TO MATCH EXISTING CEILING GRIDHEIGHT, STYLE AND ORIENTATION. U.N.O. REVOVE ALL EXISTING LIGHT FIXTURES. 15.
- WHERE WALLS OR PARTITIONS ARE TO BE REVOVED, REVOVE OR RELOCATE ALL EXISTING ELECTRICAL WIRING, DATA CABLING, TELEPHONE LINES, CABLE LINES, SATELLITE LINES, CONDUIT, WIRE MOLD, RECEPTACLES AND SWITCH BOXES, ETC. LOCATED WITHIN DEMOLISHED PORTIONS. REMOVE ALL EXISTING OUTLETS, RECEPTACLES, COVERS, BOXES, AND WIRING NOT INDICATED 17 TO BE REUSED. REVOVE ALL ABANDONED WIRING BACK TO JUNCTION BOX OR PANEL AS
- REQUIRED. UPDATE PANEL LABELING TO REFLECT ALL MODIFICATIONS. CONFIRM SCOPE OF REVOVAL REQUIRED FOR EXISTING DATA AND PHONE CABLING WITH 18 BUILDING OWNER AND CLIENT.
- REMOVE TOILET FIXTURES, SINKS, PANELS, ACCESSORIES, ABANDONED WATER SUPPLY AND DRAIN LINES, AND CAF-OFF ALL PLUVBING LINES FLUSH WITH FLOOR SLAB. PATCH AND REPAIR FLOOR AS REQUIRED.
- 20. U.N.O. ALL EXISTING WINDOW TREATIVENTS TO BE REVOVED. U.N.O. REVOVE ALL EXISTING FLOOR OUTLETS AND ASSOCIATED WIRING, CABLING AND CONDUIT 21. AND REPAIR FLOOR, MAINTAINING REQUIRED FLOOR ASSEMBLY RATING, TO BE FLUSH AND CONTINUOUS WITH ADJACENT FLOOR SURFACE, AS REQUIRED FOR NEW FINISH.
- REVOVE ALL EXISTING INTERIOR BUILDING SIGNAGE IN SCOPE OF WORK, INCLUDING BUT NOT 22. LIMITED TO, ROOMSIGNAGE, DOOR SIGNAGE, ETC.
- HAZARDOUS MATERIALS: CLIENT ACCEPTS SOLE RESPONSIBILITY FOR COMPLIANCE WITH ALL 23. FEDERAL, STATE, AND LOCAL LAWS RELATING TO THE ENMRONMENT, INCLUDING BUT NOT LIMITED TO THE NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS AND THE OCCUPATIONAL SAFETY AND HEALTH ACT. THE ARCHITECT AND ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REVOVAL, OR DISPOSAL OF OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORMAT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.

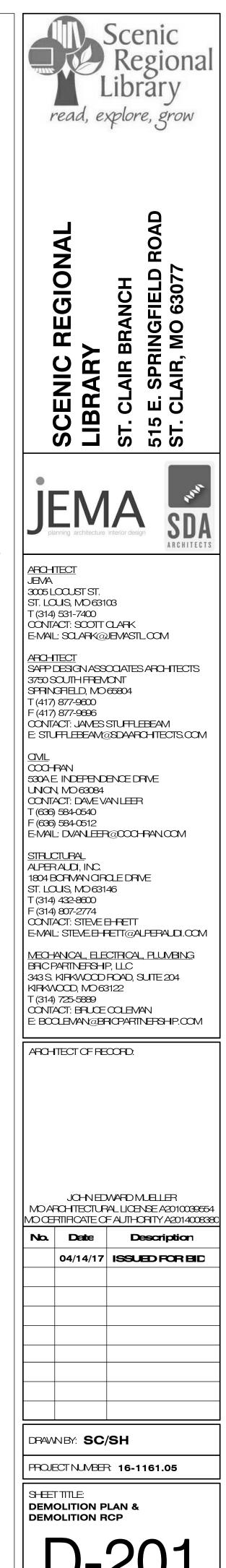
KEYED NOTES - DEMO

DESCRIPTION

ONE WALL CLADDING DOWN TO SHEATHING. SEE NEW CONDITION THIS AREA.

ONE WALL CLADDING ABOVE WINDOW OPENING, IEATHING. SEE DETAIL FOR NEW CONDITION THIS

D DISCARD CIRCULATION DESK TERMINATING ALL DATA AS REQUIRED. D TERMINATE ALL DATA AND POWER THIS AREA AS



| | <u>SLEGEND:</u> | ABBRE\ A | MATIONS LEGEND: | N | | | DEFI 1. |
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| | | AFF ACT ALT | ABOVE FINISHED FLOOR ACOUSTICAL CEILING TILE ALTERNATE | iv Max Mech Mef | MAXIMUV MECHANICAL MECH., ELECT., | ANDPLUVBING | 2. |
| \mathbf{h} | | ALUIV APPROX | ALUMINUV APPROXIMATE(LY) | MTL | METAL | | 3. |
|) | GRIDLINES | ARCH | ARCHITECT(URAL) | MN MSC | MNIMUV MSCELLANEOL | ß | |
| | | e Blkg | BLOCKING | N | | A (7) | 4. 5. |
| MEWTITLE SCALE | MEWTITLE | BLDG BC | BUILDING BOARC | NIC NTS | NOT IN CONTRA NOT TO SCALE | | 0. |
| | | c CFCI | CONTRACTOR FURNISHED, | C OFCI | OWNER FURNS | • | |
| | | С | CONTRACTOR INSTALLED CENTERLINE | OFOI | CONTRACTORI OWNER FURNIS | SHED, | 6. 7 |
| | NORTHARROM | alg Ct | CEILING CERAMIC TILE | œ | OWNER INSTAL ON CENTER | | 7. 8. |
| | | CLR CONC | CLEAR CONCRETE | OH OPG | OPPOSITE HAN OPENING | C | - |
| | | CONT CJ | CONTINUE, CONTINUOUS CONTROLJOINT | OPF | OPPOSITE | | 9. ⁻ |
| A201 | REFERENCE TO INFORMATION ENLARGED | CORR | CORRIDOR | p Plav | PLASTICLAMN | ATE | (|
|) | ELSEWHERE | d Dia | DIAVETER | PT PTN | PAINT(ED) PARTITION | | 10. I |
| М | | DIM | DIMENSION(S) | PWC | PLYWOOD | | 11. |
| | SECTION REFERENCE | E EA | EACH | C QTY | QUANTITY | | (12. |
| | | ELEC ELEV | ELECTRIC(AL) ELEVATION | R | | | l T |
| | | EC EQUIF | ECUAL EQUIPMENT | RCF REF | REFLECTED CE REFERENCE | IUNG PLAN | |
| | ELEVATION - SINGLE REFERENCE | EXF | EXPANSION | REINF | REINFORCE(D) | | <u>GEN</u> |
| | | ej Exist | EXPANSION JOINT EXISTING | REC REV | REQUIRED REVISION DESILIENTE DASI | г | 1. I |
| 1 | ELEVATION - MULTIPLE | EXT | EXTERIOR | RB | RESILIENT BAS | C | - |
| | REFERENCES | F FIN | FINSH(ED) | s SAB | SOUNDATTEN | JATION BATTS | 2. l |
| | | FINFLR FE | FINISHED FLOOR FIRE EXTINGUISHER | SC SF | SOLID CORE SQUARE FOOT | (FEET) | 3. |
| | ROOMNUVBER TAG | FEC CABINET | FIRE EXTINGUISHER | SIN SPEC | SIMLAR SPECIFICATION | l | |
| | | FLR FD | FLOOR FLOOR DRAIN | SC SQFT | SQUARE SQUARE FOOT | (FEET) | 4. l |
| NUVBER | | FLUOR FOS | FLUORESCENT FACE OF SHEATHING | STL SUSF | STEEL SUSPEND(ED) | | 5. (|
| - SUFFIX AS REOD | DOOR NUMBER TAG | FRI | FIRE-RETARDANT TREATED | SMV | SYMMETRICAL | | 6. I |
| ROOMNUMBER | | G GA | GAUGE | t TFCI | TENANT (CLIEN | T) FI IRNIGHED | 7. l |
| | PARTITION TYPE TAG | GC GYPBC | GAUGE GENERAL CONTRACTOR GYPSUMBOARE | TFTI | CONTRACTORI TENANT (CLEN | INSTALLED | 8. |
| - SUB-TYPE TYPE DESIGNATION | CANTHON LYPE IAC | | UIF JUVIDUANL | | TENANTINSTAL | , | (9. l |
| | | H HCF | HANDICAPPED | TEL TEMP | TELEPHONE TEMPERED | | 10. l |
| | KEYNOTE TAG | HDM. HT | HARDWARE HEIGHT | TOS TOM | TOP OF STRUC TOP OF WALL | IUKE | 11. I |
| | WINDOWTAG | HC HIV | HOLLOWCORE HOLLOWMETAL | TYP | TYPICAL | | 12. (|
| | | HOR HR | HORIZONTAL HOUR | U UL | | S LABORATORIES, | 13. I 14. <i>i</i> |
| | FINISHTAG | HVAC | HEATING, VENTILATION, AND AIR CONDITIONING | UNC | INC. UNLESS NOTEE | OOTHERWISE | 15. l |
| | | I | - | V | _ | | 16. I |
| | REMSION CLOUD AND DELTA | INCL INSUL | INCLUDE(D) INSULATION | VERT | VERTICAL | | 17. l 18. l |
| 1 | | INT | INTERIOR | W WC | WALL COVERIN | ſ- | 10. l |
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| | | L LAV | JOINT LAMNATE | | WOOD | | 20. I |
| GRESTRAINT | REO IREVENTS | L LAV | | | WOOD | | ז ו ו |
| | <u>"REQUIREMENTS</u> TEGORY "C": | L LAV | | | WOOD | | ו ו 21. ו |
| C DESIGN CA DED CEILING SYSTEM | TEGORY "C": SARE TO BE INSTALLED PER | L LAV 5 FOR IBC SECTION 16 | LAMINATE 521 REQUIREMENTS, CISCA | | WOOD | | 21. 22. |
| ED CELLING SYSTEM OR SEISMC ZONES (| TEGORY "C": SARE TO BE INSTALLED PER), 1 & 2, AND ASCE SECTION 7 | L LAV SFOR IBC SECTION 16 REQUIREMENT | LAMINATE 521 REQUIREMENTS, CISCA | | WOOD | | 21. |
| ACDESIGN CA ENDED CEILING SYSTEM ESFOR SEISMC ZONES (INTECTIONS, PERIMETER ED CEILINGS GREATER T | TEGORY "C": SARE TO BE INSTALLED PER | L LAV 5 FOR IBC SECTION 16 REQUIREMENT | LAMINATE 521 REQUIREMENTS, CISCA TS. | | WOOD | | 21. 22. 23. |
| C DESIGN CA NDED CEILING SYSTEM SFOR SEISMC ZONES (NECTIONS, PERIMETER D CEILINGS GREATER T G IMJMINTERSECTION S | TEGORY "C": SARE TO BE INSTALLED PER D, 1 & 2, AND ASCE SECTION 7 A AND LATERAL SPLAY BRAC HAN 144 S.F. SHALL BE BRAC STRENGTH LIMTS @MAIN TEE | L LAV 5 FOR IBC SECTION 14 REQUIREMENT MG ED IN ACCORDA | LAMINATE 521 REQUIREMENTS, CISCA S. | | WOOD | | 21. 22. 23. / |
| C DESIGN CA DED CEILING SYSTEM FOR SEISMC ZONES (ECTIONS, PERIMETER CEILINGS GREATER T VLMINTERSECTION S MDE MIN. 12-GAUGE V I TEE CLASSIFICATION | TEGORY "C": SARE TO BE INSTALLED PER D, 1 & 2, AND ASCE SECTION 7 C, AND LATERAL SPLAY BRAC HAN 144 S.F. SHALL BE BRAC STRENGTH LIMITS @MAIN TEE VERTICAL HANGER WIRE AT 4 JTO BE INTERVEDIATE- OR H | L LAV FOR IBC SECTION 16 REQUIREMENT EDIN ACCORD FOR OSS TEE IS -0" O.C. MIN. EAVY DUTY. | LAMINATE 521 REQUIREMENTS, CISCA S. | | WOOD | | 21. 22. 23. |
| C DESIGN CA DED CEILING SYSTEM FOR SEISMC ZONES (ECTIONS, PERIMETER CEILINGS GREATER T VLMINTERSECTION S MDE MN. 12-GAUGE V I TEE CLASSIFICATION 5 MAX PLUVB OF VER MDE MNIMUM 7/8" PEI | TEGORY "C": SARE TO BE INSTALLED PER D, 1 & 2, AND ASCE SECTION 7 AND LATERAL SPLAY BRAC HAN 144 S.F. SHALL BE BRAC STRENGTH LIMITS @MAIN TEE FERTICAL HANGER WIRE AT 4 ITO BE INTERVEDIATE- OR H ITICAL HANGER WIRES REQUI RIMETER CLOSURE (MOLDING | L LAV FOR IBC SECTION 16 REQUIREMENT CING ED IN ACCORD FOR OSS TEE IS -0" O.C. MIN. EAVY DUTY. RED.). IF MOLDING I | LAMINATE 521 REQUIREMENTS, CISCA 5. ANCE WITH THE 560 LBS. SLESS THAN 7/8' PROMDE | | | | 21. 22. 23. / |
| ED CEILING SYSTEM OR SEISMC ZONES (CTIONS, PERIMETER CEILINGS GREATER T UMINTERSECTION S IDE MIN. 12-GAUGE V TEE CLASSIFICATION MAX. PLUMB OF VER IDE MINIMUM 7/8" PER 2 GA. HANGER WIRES THE WALL AND 4-0" | TEGORY "C": SARE TO BE INSTALLED PER D, 1 & 2, AND ASCE SECTION 7 2, AND LATERAL SPLAY BRAC HAN 144 S.F. SHALL BE BRAC STRENGTH LIMITS @MAIN TEE /ERTICAL HANGER WIRE AT 4 J TO BE INTERVEDIATE- OR H CTICAL HANGER WIRES REQUING SAROUND ENTIRE PERIMETER EACH DIRECTION AT NOMO | L LAV FOR IBC SECTION 16 REQUIREMENT CONSTREMENT CONSTREMENT CONSTREMENT FOR CONTACTOR CONSTREMENT | LAMINATE 521 REQUIREMENTS, CISCA 5. ANCE WITH THE 560 LBS. SLESS THAN 7/8' PROMDE T EACH TEE AT AMAX OF | | | <u>NT LEGEND:</u> | 1 21. 22. 22. 23. / |
| C DESIGN CA DED CELLING SYSTEM FOR SEISMC ZONES (CELLINGS GREATER T CELLINGS GREATER T MUMINTERSECTION S MDE MN. 12-GAUGE V NTEE CLASSIFICATION 6 MAX PLUVB OF VER MDE MNIMUM 7/8" PEI 12 GA HANGER WIRES FF THE WALL AND 4"-0" VALL OR STRUCTURE / MDE MN. 3/8" GRD EN | TEGORY "C": SARE TO BE INSTALLED PER D, 1 & 2, AND ASCE SECTION 7 2, AND LATERAL SPLAY BRAC HAN 144 S.F. SHALL BE BRAC TRENGTH LIMITS @MAIN TEE FERICAL HANGER WIRE AT 4 TO BE INTERVEDIATE OR HI TICAL HANGER WIRES REQUINT RIMETER CLOSURE (MOLDING SAROUND ENTIRE PERIMETER BACH DIRECTION AT NOMO ABOVE. | L LAV FOR IBC SECTION 16 REQUIREMENT ZING ED IN ACCORD ED IN ACCORD FOR OSS TEE IS -0" O.C. MIN EAVY DUTY. RED.). IF MOLDING I ROF CEILING A RE THAN 1-IN-6 | LAMINATE 521 REQUIREMENTS, CISCA 5. ANCE WITH THE 60 LBS. SLESS THAN 7/8' PROMDE I EACH TEE AT AMAX OF OUT OF PLUMB; ATTACH | | ECUPVE | COFFEE MAKER (T.F | [21. [22.] 23. / 24. [|
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INITION OF TERVIS:

THE WORD "CLIENT" AS USED IN THESE DOCUMENTS REFERS TO THE ENTITY WHO HAS CONTRACTED THE ARCHITECT TO PERFORMPROFESSIONAL SERVICES ON THIS PROJECT. THE WORD "PROJECT" AS USED IN THESE DOCUMENTS REFERS TO THE SCOPE OF WORK DESCRIBED IN THESE DOCUMENTS.

THE WORDS "CONTRACTOR", "GENERAL CONTRACTOR", AND "G.C." AS USED IN THESE DOCUMENTS REFER TO THE GENERAL CONTRACTOR SELECTED BY THE CLIENT TO PERFORM THE WORK DESCRIBED IN THESE DOCUMENTS. ALL NOTES IN THESE DOCUMENTS INSTRUCT THE GENERAL CONTRACTOR

THE WORD "ARCHITECT" AS USED IN THESE DOCUMENTS REFERS TO ARCHITE-OF-RECORD, JEMA

THE WORDS "CONSTRUCTION TEAM' REFER TO ALL PARTIES INVOLVED IN THE CONSTRUCTION PHASE, INCLUDING BUT NOT LIMITED TO: THE CLIENT AND THEIR CONSULTANTS; THE BUILDING OWNER: THE CONSTRUCTION MANAGER: THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS; THE CONSULTING ENGINEERS AND THE ARCHITECT.

THE WORD "ALIGN" AS USED IN THESE DOCUMENTS SUPERSEDES ANY DIMENSIONAL INFORVATION INDICATED. IF DISCREPANCIES OCCUR, NOTIFY ARCHITECT IMVEDIATELY. THE WORD "PROMDE" AS USED IN THESE DOCUMENTS MEANS FURNISH AND INSTALL. THE WORD "CLEAR" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS NOT ADJUSTABLE WITHOUT THE APPROVAL OF THE ARCHITECT. CLEAR DIMENSIONS ARE TYPICALLY TO FINISH FACE OF MAJOR SURFACE. COORDINATE REQUIREMENTS FOR BASE BOARD HEATERS OR OTHER PROTRUSIONS WITH ARCHITECT.

THE WORD "MAXIMUM" OR "MAX." AS USED IN THESE DOCUMENTS SHALL MEAN THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY GREATER THAN THAT SHOWN WITHOUT APPROVAL OF THE ARCHITECT.

THE WORD "MNIMUM" OR "MN" AS USED IN THESE DOCUMENTS SHALL MEAN THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY LESS THAN THAT SHOWN WITHOUT APPROVAL OF THE ARCHITECT

THE WORD "TYPICAL" OR "TYP' AS USED IN THESE DOCUMENTS SHALL MEAN THE CONDITION OR DIVENSION IS THE SAVE OR REPRESENTATIVE FOR SIMLAR CONDITIONS THROUGHOUT. THE SYMBOL "+/-" AS USED IN THESE DOCUMENTS SHALL MEAN THE DIMENSION OR QUANTITY IS ADJUSTABLE TO ACCOMMODATE ACTUAL CONDITIONS. IF ACTUAL DIMENSION VARIES BY MORE THAN 1" FROM DIMENSION NOTED AS "+/-", INFORMARCHITECT BEFORE PROCEEDING.

NERAL NOTES: REFLECTED CEILING PLAN

REVIEW CEILING LAYOUT AS SHOWN AND NOTIFY ARCHITECT OF ANY CONFLICTS WITH STRUCTURAL, ELECTRICAL, MECHANICAL, PIPEWORK, FIRE PROTECTION SYSTEVS, ETC.

BEFORE PROCEEDING WITH CONSTRUCTION U.N.O. ALL NEW SUSPENDED ACOUSTICAL CEILING GRID AND TILE SYSTEVIS ON PLAN TO BE ACT-1. CENTER GRID ON COLUMN CENTERLINE OR REFERENCE GRID STARTING POINT ON

PLAN. REFERTOFINISH LEGEND FOR SPECIFICATION. INSTALL NEW CEILINGS TO COVPLY WITH ALL SEISMIC RESTRAINT REQUIREMENTS IN

ACCORDANCE WITH ALL LOCAL BUILDING CODES. REFER TO SEISMC INFORMATION ON SHEET 16. A-001.

U.N.O. LOCATE DOWNLIGHTS AND WALL WASHERS IN CENTER OF CEILING TILE. IF CONFLICT OCCURS, NOTIFY ARCHITECT PRIOR TO PROCEEDING. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL RECESSED DOWNLIGHTING IN G.W.B.

CEILINGS. COORDINATE WITH ARCHITECT BEFORE PROCEEDING WITH THE WORK. REFER TO LIGHT FIXTURE LEGEND FOR LIGHT FIXTURE SPECIFICATION AND ADDITIONAL INFORVATION.

U.N.O. ALL G.W.B. CELUNGS TO BE PAINTED PT-2. REFER TO FINISH LEGEND FOR SPECIFICATION.

VERIFY EXACT LOCATION OF ALL RECESSED DOWNLIGHTING IN G.W.B.CEILINGS. COORDINATE WITH ARCHITECT BEFORE PROCEEDING WITH THE WORK.

U.N.O. INSTALL LINEAR DIFFUSERS IN ALL G.W.B. AND A.C.T. CEILINGS.

U.N.O. ALL SPRINKLER HEADS IN G.W.B. AND A.C.T. CEILINGS TO BE FULLY RECESSED TYPE. CENTERALL SPRINKLER HEADS WITHIN 3" OF CENTER OF A.C.T.

REFER TO ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL WALL-MOUNTED LIGHT FIXTURES.

COORDINATE AND VERIFY LOCATION OF LIGHT SWITCHES, THERVOSTATS, FIRE ALARVIS, ETC. WITH ARCHITECT BEFORE INSTALLATION.

REFER TO ELECTRICAL DRAWINGS FOR DEVICE LOCATION DIAGRAM ALL EXPOSED CEILING EDGES TO BE FINISHED.

U.N.O. ALL G.W.B. CEILINGS IN RESTROOVS, SHOWER ROOVS AND OTHER WET LOCATIONS TO BE MOISTURE RESISTANT.

ELECTRICAL CONTRACTOR TO COORDINATE SWITCHING AND DIMMING REQUIREMENTS AND LOCATIONS WITH ARCHITECT.

U.N.O. LIGHTING IN EACH ROOM TO BE SWITCHED FROM ONE LOCATION WITHIN THAT ROOM U.N.O. ALL LIGHT FIXTURE TYPES WITHIN EACH ROOMOR OPEN OFFICE AREA TO BE SWITCHED SEPARATELY. GANG ALL SWITCHES IN EACH ROOMUNDER A SINGLE COVERPLATE.

U.N.O. POWER OUTLETS, COMMUNICATIONS RECEPTACLES, COVER PLATES, DEVICES, ETC. TC 32. BE BUILDING STANDARD HEIGHT. REFER TO ELECTRICAL SHEETS FOR ELEC/COMMSYMBOLS AND ADDITIONAL INFORMATION

IDENTIFY AND COORDINATE LOCATIONS FOR ALL CEILING ELEMENTS INCLUDING LIGHTING, MECHANICAL DIFFUSERS, RETURN AIR GRILLES, FIRE PROTECTION DEVICES, ACCESS PANELS, EXIT SIGNS, AUDIOMSUAL EQUIPMENT, SECURITY DEMCES, ETC. WITH ARCHITECT BEFORE INSTALLATION.

NOTIFY ARCHITECT OF ANY REQUIREVENTS FOR ACCESS PANELS NOT SHOWN ON DOCLMENTS BEFORE PROCEEDING WITH CONSTRUCTION

ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY AND LOCATION OF EXIT LIGHTING. EXIT LIGHTING IS SHOWN IN PLANS ONLY TO IDENTIFY PATHS OF EGRESS.

ALL EXPOSED DUCTWORK TO BE RIGID METAL DUCTWORK. U.N.O. PAINT ALL EXPOSED CEILINGS ELEVENTS INCLUDING BUT NOT LIMITED TO STRUCTURE, UNDERSIDE OF ROOF DECK, DUCTWORK, CONDUIT, PIPING, WIRING, AND SPRINKLER SYSTEV6PT-2.

GENERAL NOTES: FINISH

- G.C. TO REVIEWAND SUBVIT TO ARCHITECT ALL MATERIALS IN FINISH LEGEND. REFER TO PLANS, ROP, ELEVATIONS, FINISH SCHEDULE, DOOR SCHEDULE, AND DETAILS FOR FINISH INFORVATION AND LOCATIONS. SAVPLES TO BE THE SPECIFIED COLOR AND FINISH FOR REMEW. SUPPLY AMNIMUMOF FIVE COPIES OF EACH ITEM ARCHITECT, GENERAL CONTRACTOR, SUB-CONTRACTOR, FIELD COPY, AND CLIENT.
- THE CONTRACTOR SHALL THOROUGHLY REMEWTHE CONTRACT DOCUMENTS PRIOR TO REFER TO PLANS, RCP, FINISH LEGEND, AND DETAILS TO VERIFY FINISHES. REFER TO CONSTRUCTION AND AS AVENDVENTS MAY BE MADE AS CONSTRUCTION PROCEEDS, AND SHALL ELEVATIONS FOR ADDITIONAL FINISH INFORVATION OR WHERE MULTIPLE FINISHES ARE NOTIFY THE ARCHITECT OF ANY DISCREPANCIES, CONFLICTS, INCONSISTENCIES, ERRORS OR INDICATED ON PLAN FOR THE SAVE WALL OMSSIONS THAT MAY BE DISCOVERED. IN SUCH CASES THE CONTRACTOR IS TO OBTAIN THE FINISH NAVE TAKES PRECEDENT OVER THE FINISH PRODUCT NUVBER WHEN CLARIFICATION OR VERIFICATION OF INTENT PRIOR TO PROCEEDING WITH THE WORK
- ORDERING MATERIALS. CONTACT ARCHITECT WITH DISCREPANCIES BEFORE ORDERING MATERIALS.
- IDENTIFY AND INFORM CONSTRUCTION TEAM OF ALL CRITICAL PATH ITEMS, CRITICAL DEADLINES, AND DATE OF SUBSTANTIAL COMPLETION.
- PATCH AND REPAIR EXISTING FINISHES AS REQUIRED WHERE DEVOLITION OR NEW CONSTRUCTION OCCURS. NEW FINISHES TO MATCH EXISTING IN MANUFACTURER, COLOR. FINISH, AND TEXTURE. WHERE MATERIALS ARE NOT AVAILABLE FOR EXACT MATCH, SUBMIT MATERIALS FOR SUITABLE REPLACEMENT BEFORE PURCHASE OR INSTALLATION.
- PATCH AND REPAIR OR REPLACE ANY EXISTING FINISHES IN BUILDING COMMON AREAS OUTSIDE SCOPE OF WORK IF DAVAGE OCCURS RELATED TO THE CONSTRUCTION OF THE SCOPE OF WORK.
- ALL INTERIOR FINISHAND SUNDRIES TO MEET OR EXCEED CLASS II FLAVE SPREAD, 26-75 AND SMOKE DEVELOPMENT RATING LESS THAN 450 AND ALL OTHER APPLICABLE CODES.
- CONTAINING CONTRACT DOCUVENTS OR PORTIONS OF CONTRACT DOCUVENTS WILL BE REJECTED AND RETURNED TO THE CONTRACTOR WITHOUT ACTION OR COMMENT. AND ARE NOT TO BE USED ALL IMPACT-RESISTANT PANELS TO BE CLASS 1 COMPONENTS. TESTED IN ACCORDANCE FOR PROCUREMENT, FABRICATION OR INSTALLATION OF ANY WORK IN THE PROJECT. WITH UL-723 (ASTIV-E849A) FLAVE SPREAD 20 OR LESS. SMOKE DEVELOPED 400 OR LESS. WHERE WORK OR EQUIPMENT IS INDICATED AS 'NOT IN CONTRACT (NIC)' IN THE DOCUMENTS, SUCH ALL VINML WALL COVERING FIRE HAZARD CLASSIFICATION (ASTIV-E-84) FLAVE SPREAD 5,
- FUEL CONTRIBUTION 0, SWOKE DENSITY FACTOR 5.
- MAINTAIN AND PROTECT EXISTING FLOORING AND FINISHES TO REMAIN DURING CONSTRUCTION. CLEAN AND PREPARE FLOOR AREA SCHEDULED TO RECEIVE NEW FLOORING SO THE AREAS ARE ABLE TO ACCEPT NEW FLOORING. AND MAINTAIN REQUIRED FLOOR ASSEVELY RATING, TO BE FLUSH AND CONTINUOUS WITH ADJACENT FLOOR SURFACE, AS REQUIRED FOR NEWFINISH.
- U.N.O. ALL PARTITIONS, EXTERIOR WALLS AND COLUMNS TO RECEIVE PAINT PT-1 AND 11. BASE RE-1.
- 12. U.N.O. ALL G.W.B. CELUNGS TO BE PAINTED PT-2. REFER TO REFLECTED CELUNG PLAN FOR ADDITIONAL CEILING FINISHES.
- U.N.O. ALL HOLLOWMETAL FRAVES TO RECEIVE PAINT PT-3. REFER TO DOOR SCHEDULE 13. FOR ADDITIONAL INFORMATION.
- U.N.O. ALL METAL DOORS TO RECEIVE PAINT PT-3. REFER TO DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
- U.N.O. ALL PAINTED SURFACES TO RECEIVE A MINIMUM OF ONE (1) PRIMER COAT AND 15. THEN TWO (2) FINISH PAINT COATS. TINT PRIMER COAT PERMANUFACTURERS SPECIFICATIONS.
- U.N.O. ALL PARTITIONS RECEIMING PAINT (PT-?), (PT-?), OR (PT-?) TO RECEIVE A LEVEL FIVE (5) FINISH PRIOR TO PRIVE AND FINISH COATS TO AVOID PAINT FLASHING. ADDITIONAL FINISH COATS WILL BE REQUIRED.
- 17. U.N.O. ALL GLASS IN DOORS AND SIDELITES TO BE GLASS GL-2. 18. U.N.O. ALL WOOD DOORS AND TRIM TO RECEIVE STAIN ST-1. REFER TO DOOR SCHEDULE
- FOR ADDITIONAL INFORMATION. ANY WALLCOVERING WITH RECOR BACKING TO BE ADHERED WITH HEAVY-DUTY CLAY 19. ADHESIVE.
- SHEET METAL FLASHING SHALL BE OF APPROPRIATE THICKNESS AND SIZES, AND DETAILED, 20. CLEAN AND PREPARE FLOOR AREA TO ACCEPT NEW FLOORING, MAINTAINING REQUIRED CONFIGURED AND INSTALLED SO AS TO ALLOW FOR ACCEPTABLE THERWAL MOVEMENTS WITHOUT FLOOR ASSEVELY RATING, TO BE FLUSH AND CONTINUOUS WITH ADJACENT FLOOR MSIBLE DISTORTIONS, LEAKS OR FAILURES OF THE FLASHING SYSTEMS ABILITY TO PERFORMAS SURFACE, AS REQUIRED FOR NEWFINISH. REQUIRED BY THE CONTRACT DOCUMENTS. U.N.O. ALL FLOORING SHALL BE INSTALLED PERMANUFACTURERS RECOMMENDATION. 21. 12.
- VERIFY WITH ALL MANUFACTURERS AND SUPPLIERS.
- U.N.O. ALL FLOORING TRANSITIONS TO BEGIN AT CENTER LINE UNDER DOOR REFER TO 22. TRANSITION DETAILS FOR ALL FLOORING CHANGES.
- U.N.O. ALL RESILIENT BASE TO BE RESILIENT BASE RE-1, 4" STRAIGHT AT CARPET AND 4" 23 COVE AT HARD SURFACE FLOORING.
- U.N.O. ALL RESILIENT AND TILE FLOORING TO EXTEND UNDER MILLWORK. 24.
- ALL COUNTERTOP EDGE PROFILES TO BE AN EASED EDGE. REFER TO INTERIOR ELEVATIONS AND MILLWORK SECTIONS FOR FINISH INFORVATION 26.
- 27. U.N.O. ALL WALLCOVERING SHALL BE INSTALLED PERMANUFACTURERS INSTRUCTIONS. AFTER HANGING 3 LENGTHS OF THE WALLCOVERING MATERIAL CHECK FOR ANY DEFECTS. IF THERE IS A PROBLEM CONTACT YOUR SUPPLIER IMMEDIATELY, IF THE PROBLEM CAN NOT BE RESOLVED IN A TIMELY MANNER, CONTACT THE ARCHITECT. 28
- U.N.O. ALL CABINETS HARDWARE PULLS HM-1. U.N.O. ALL MILLWORK BACKSPLASHES TO BE 4" TALL 29.
- 30. U.N.O. ALL EXPOSED ENDS AND OPEN MILLWORK TO MATCH FINISH OF EXTERIOR MLLWORK
- U.N.O. ALL MLLWORK INTERIORS TO BE WHITE MELAMINE.
- PAINT ALL PLYWOOD TO MATCH NEW WALL FINISH TO WHICH IT IS ATTACHED. WOOD VENEERS TO BE APPLIED FLUSH AND SMOOTH TO SUBSTRATE WITH NO RIPPLING 33. TOLERATED.
- NO GLUE UP WOOD BASE TOLERATED.
- ALL EXITS SERVING A REQUIRED ACCESSIBLE SPACE, BUT NOT PROMDING AN ACCESSIBLE MEANS 22. ALL WOOD SHALL BE OF THE SAVE SPECIES AND SAVE OUT OF WOOD. 35. OF EGRESS, SHALL PROMDE SIGNS INDICATING THE LOCATION OF ACCESSIBLE MEANS OF EGRESS. ALL WOOD (VENEER, HARDWOOD) SHALL BE ORDERED AT THE SAVE TIME FROM THE - 36 SIGNS WILL BE BY OWNER AND INSTALLED BY CONTRACTOR SAVE LOT WITH A SAVPLE FROM THE LOT SUBMITTED TO THE ARCHITECT FOR SEE SHEET A-902 FOR PARTITION TYPES. 23. APPROVAL. NOTIFY ARCHITECT IMMEDIATELY OF NEED TO HAVE TWO LOTS OF WOOD, IN FOR ALL DOORS INTO ELECTRICAL CONTROL PANELS, HANDLES, PULLS, LATCHES, LOCKS, AND WHICH CASE A SAVPLE FROM EACH LOT MUST BE SUBMITTED FOR APPROVAL
- 37. MILWORK CONSTRUCTION TO COMPLY WITH LATEST EDITION OF A WI. STANDARDS. U.N.O. ALL PAINTED SURFACES TO RECEIVE THE FOLLOWING FINISHES:

G.W.B. VERTICAL WALL SURFACES - EGGSHELL (SATIN) G.W.B. CEILINGS, SOFFITS, BULKHEADS - FLAT HOLLOWMETAL SURFACES - SEM-GLOSS PAINTED WOOD SURFACES - SEM-GLOSS CONCRETE MASONRY UNIT - EGGSHELL

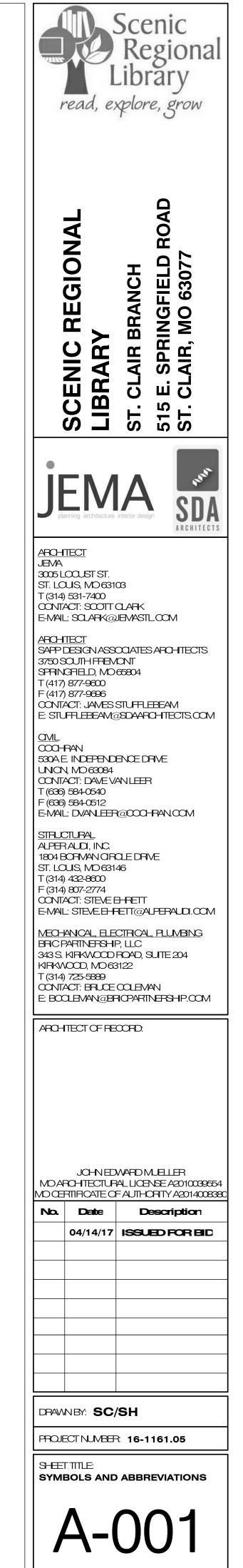
REFLECTED CEILING SYMBOLS LEGEND

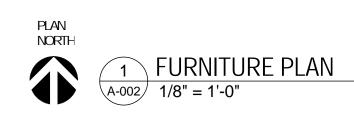
NEW2x2 CEILING GRID AND TILE, SEE FINISH LEGEND ICAL AND PLUMBING. OR SPECIFICATION NEW GYPSUMBOARD CEILING ENTS. 2x2 FLUORESCENT LIGHT FIXTURE 0 EX RECEPTACLE. OR SPECIFICATION 2x4 FLUORESCENT LIGHT FIXTURE 0 ENTS. RECESSED CAN LIGHT FIXTURE LINEAR PENDANT FIXTURE ICAL AND PLUMBING. -OR SPECIFICATION DECORATIVE PENDANT FIXTURE (\circ) ENTS. \square SUPPLY DIFFUSER ICAL COORDINATE RETURNDIFFUSER TION AND ADDITIONAL EXITSIGN

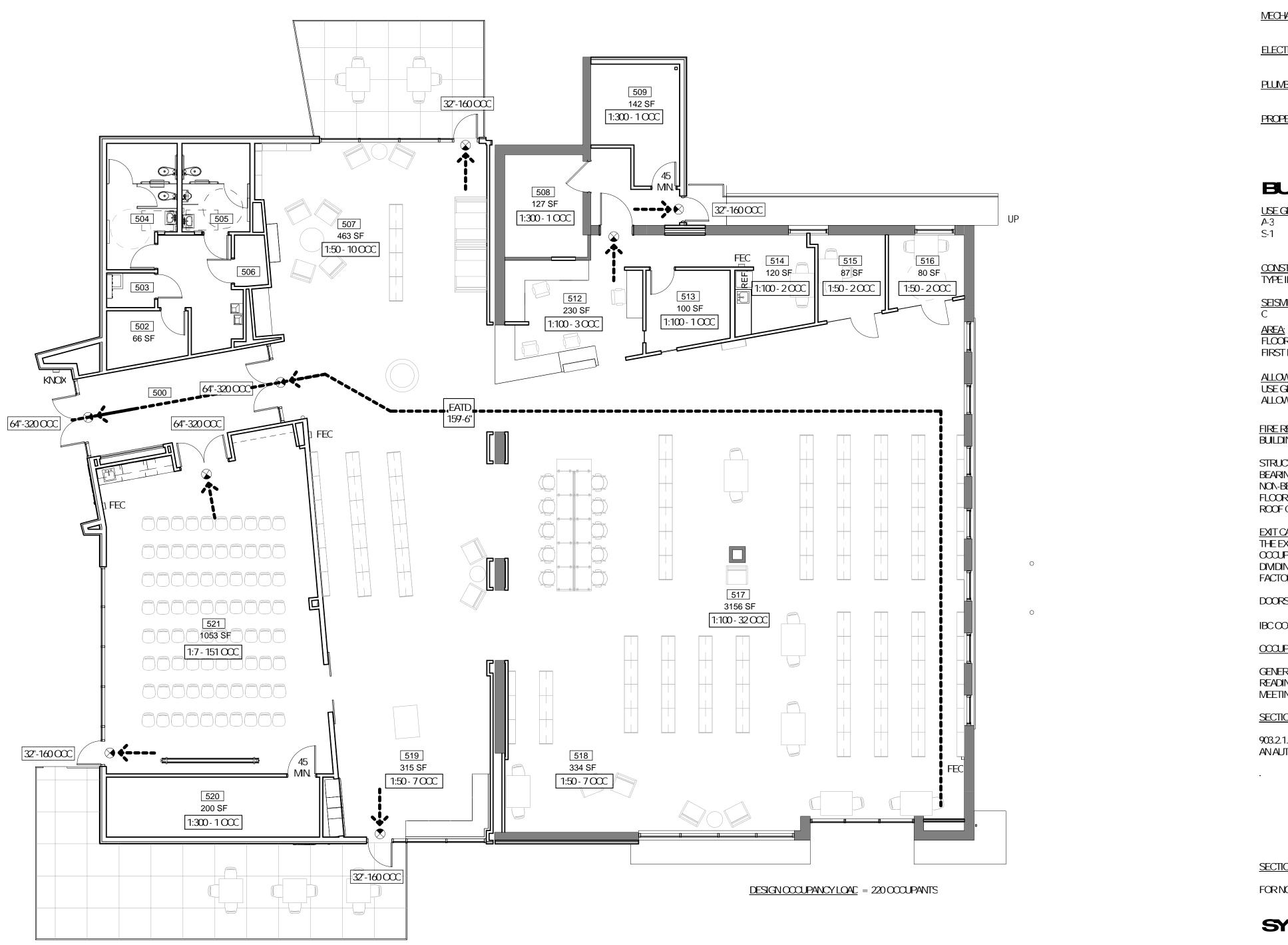
ICAL COORDINATE TIONAND

GENERAL NOTES: ARCHITECTURAL

- THE CONTRACTOR SHALL MSIT THE SITE AND BE KNOWLEDGEABLE OF CONDITIONS THEREON, AND SHALL INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR ALL CONDITIONS OF THE PROJECT, AND SHALL NOTIFY THE OWNER OF ANY CONDITIONS REQUIRING MODIFICATION BEFORE PROCEEDING WITH THE WORK
- THE WORK IS TO BE PERFORVED IN CONFORVANCE WITH APPLICABLE WRITTEN CODES. ORDINANCES, LAWS, RULES, REGULATIONS AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. IF THE CONTRACTOR PERFORMS OR PROCEEDS IN A MANNER CONTRARY TO ANY SUCH REQUIREVENTS THE CONTRACTOR ASSUMES FULL RESPONSIBILITY THEREFORE AND SHALL BEAR COSTS RESULTING FROM NONCOVPLIANCE OR MOLATION, INCLUDING COSTS ASSOCIATED WITH REPAIRING, REPLACING OR OTHERWISE BRINGING THE WORK INTO CONFORVANCE. THE CONTRACTOR IS TO BRING TO THE ARCHITECT'S ATTENTION ANY CONDITIONS REPRESENTED IN THE CONTRACT DOCUMENTS THAT ARE NOT IN CONFORMANCE WITH APPLICABLE REQUIREMENTS. THE CONTRACTOR IS TO MAINTAIN ON SITE A COPY OF THE APPLICABLE EDITION OF THE UL FIRE
- RESISTANCE DIRECTORY AND OTHER FIRE RESISTIVE STANDARDS REFERENCED IN THE CONTRACT DOCUMENTS FOR USE BY INSPECTORS AT TIMES OF INSPECTION. CONTRACT DOCUMENTS SHALL NOT BE REPRODUCED AS THE BASIS FOR REQUIRED SUBMITTALS UNLESS PRIOR WRITTEN PERMISSION HAS BEEN OBTAINED FROM THE ARCHITECT. SUBMITTALS
- WORK OR EQUIPVENT SHALL BE PROMDED OUTSIDE THE CONTRACT SCOPE REPRESENTED IN THESE DOCUMENT. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH NIC ITEMS AND COOPERATE TO AFFECT THE IMPLEMENTATION OF SUCH WORK OR INSTALLATION.
- DETAILS NOT SHOWN ARE TO BE SIMLAR IN CHARACTER TO THOSE DRAWN. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETER- MINED THE CONTRACTOR IS TO OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- PROMDE BLOCKING IN STUD WALLS BEHIND ITEMS SUPPORTED BY WALLS, OF SIZES, LENGTHS AND HEIGHTS AS REQUIRED. ATTACH BLOCKING TO STUDS WITH TYPE, SIZE, NUVBER AND SPACING OF ANCHORS AS REQUIRED TO PROPERLY SUPPORT LOADS OF ITEMS SUPPORTED. WHERE WOOD BLOCKING IS USED IT IS TO BE FIRE RETARDANT TREATED. WHERE METAL IS USED PROVIDE MN 1/8 INCH THICK PLATE, WELDED, SCREWED OR BOLTED TO METAL STUD FRAMING. IF PLATES ARE NOT LOCATED COMPLETELY BEHIND ITEMS SUPPORTED, LET PLATES INTO STUDS OR OTHERWISE CONFIGURE SO THAT THERE ARE NOWSIBLE BULGES IN SURFACE OF FINISHED GYPSUMBOARD DUE TO THICKNESS OF PLATES BETWEEN STUDS AND GYPSUMBOARD.
- TO PREVENT GALVANIC ACTION BETWEEN DISSIMLAR METALS, WHERE DISSIMLAR METALS COVE INTO CONTACT WITH EACH OTHER, WHERE METALS COVE INTO CONTACT WITH WOOD, CONCRETE OR MASONRY, WHERE RUNOFF FROM A METAL SURFACE FLOWS OVER A DISSIMILAR METAL, OR WHERE NON-PASSIVE METAL FASTENERS PENETRATE DISSIMILAR METALS, BREAK THE CONTACT BETWEEN MATERIALS WITH A HEAVY WATERPROOF PAPER OR FELT, A HEAVY COAT OF BITUMNOUS COATING OR AN ELASTOVERIC FILMUNLESS OTHER SEPARATOR IS INDICATED IN THE CONTRACT DOCUMENTS.
- STEEL EXPOSED TO WATER AND/OR EXTERIOR WEATHER CONDITIONS IS TO BE GALVANIZED UNLESS 10. INDICATED OTHERWISE. WHERE CUTTING, FASTENING, ANCHORAGE OR CONNECTION CONDITIONS RESULT IN BREAKS IN THE GALVANIZING COATING, RESTORE COATING OR APPLY ADDITIONAL COVPATIBLE PROTECTIVE COATING TO MAINTAIN INTEGRITY OF PROTECTION.
- EDGE OF DOOR SHALL BE LOCATED 6" OFF PERPENDICULAR WALL UNLESS OTHERWISE NOTED. ALL WOOD BLOCKING TO SECURE CABINETS, MARKER BOARDS, ETC. TO PARTITIONS SHALL BE FIRE 13. RETARDANT WOOD BLOCKING.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS AT THE JOB SITE AND SHALL NOTIFY ARCHITECT OF ANY OMSSIONS, DISCREPANCIES, AND/OR CONFLICTS BEFORE PROCEEDING WITH THE JOB. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. LARGE SCALE DETAILS GOVERN OVER SWALL 15
- SCALE.
- PARTITIONS SHALL BE DIVENSIONED TO FACE OF PARTITION UNLESS NOTED OTHERWISE. 17. ALL DISSIMLAR METAL MATERIALS SHALL BE ISOLATED WITH A NON-METALLIC SEPARATOR
- ALL MATERIALS USED IN FIRE-RATED ASSEVBLIES SHALL BE APPROVED BY U.L. OTHER RECOGNIZED 18. STANDARD FOR USE IN SUCH ASSEMBLIES.
- 19. ALL BUILDING ACCESSIBILITY IS DESIGNED AND SHALL BE IN ACCORDANCE WITH I.B.C., ANSI 117.1 2003, ADAAG AND DOJ 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN. WHICHEVER STANDARD PROMDES THE GREATEST DEGREE OF ACCESSIBILITY FOR ANY GIVEN BUILDING ELEVENT. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, SPECIAL 20
- KNOWLEDGE, OR EFFORT. THE OPERATION OF THE SECURITY DEVICES SHALL BE COVPLIANT WITH THE CODES.
- SIGNAGE INDICATING ACCESSIBLE ENTRANCES, RESTROOMS, SIGNS PLAINLY MSIBLE STATING "ELECTRICAL ROOM' AND ANY OTHER INTERIOR SIGNAGE REQUIRED BY CODE SHALL BE PROMDED BY OWNER AND INSTALLED BY CONTRACTOR
- OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER- OPERATED MECHANISVS, PUSH-TYPE MECHANISVS, AND L-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. WHEN SLIDING DOORS ARE FULLY OPEN, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48' ABOVE FINISH FLOOR. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT
- FROMAN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS: (1) FIRE
- DOORS SHALL HAVE THE MNIMLMOPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. (2) OTHER DOORS. (A) INTERIOR HINGED DOORS: 5 IBF (22.2N) (B) SLIDING OR FOLDING DOORS: 5 IBF (22.2N) THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEMCES THAT MAY HOLD THE DOOR IN A CLOSED POSITION. TACTILE SIGNAGE SHALL BE LOCATED ON THE WALL ADJACENT TO THE DOORS SIDE AND AT A
- HEIGHT OF 60 INCHES ABOVE THE FLOOR SIGNS MAY BE LATCH PLACED ON THE NEAREST ADJACENT WALL WHEN THERE IS NO WALL SPACE ON THE LATCH SIDE. EACH GLAZING UNIT SHALL BEAR THE MANUFACTURERS LABEL DESIGNATING THE TYPE AND 28
- THICKNESS OF GLASS. GLAZING LOCATED WITHIN 24" OF A DOOR AND LESS THAN 60" ABOVE WALKING SURFACE SHALL BE SAFETY GLAZED.
- ACCESSIBLE TOILET FACILITIES SHALL BE IDENTIFIED WITH A SIGN, PROMDED BY OWNER AND 29. INSTALLED BY CONTRACTOR ALL BUILDING ENTRANCES / EXITS ARE ACCESSIBLE.
- 30 31
- ACCESSIBLE DOORS SHALL HAVE A LANDING ON BOTH SIDES. LANDINGS SHALL BE NOMORE THAN 1/2 INCH BELOW THE TOP OF THE DOOR THRESHOLD. DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE ON THE LOWER 10 INCHES.
- FOR CORNER GUARD LOCATIONS & INFORVATION REFERENCE THE FINISH LEGEND AND FINISH 33. PLAN. REFER TO AWI STANDARDS FOR MILLWORK CONSTRUCTION.
- 35
- INSTALL MOISTURE RESISTANT GYP. BOARD AT ALL WALLS, INCLUDING BUT NOT LIMITED TO LAVATORY LOCATIONS.
- CONTRACT DOCUVENTS SHALL NOT BE REPRODUCED AS THE BASIS FOR REQUIRED SUBMITTALS UNLESS PRIOR WRITTEN PERMISSION HAS BEEN OBTAINED FROM THE ARCHITECT. SUBMITTALS CONTAINING CONTRACT DOCUMENTS OR PORTIONS OF CONTRACT DOCUMENTS WILL BE REJECTED AND RETURNED TO THE CONTRACTOR WITHOUT ACTION OR COMMENT. AND ARE NOT TO BE USED FOR PROCUREMENT, FABRICATION OR INSTALLATION OF ANY WORK IN THE PROJECT.









<u>auth</u>

BULL

ACCES

<u>FIRE P</u>

FEC

X:X-XOCC XX" - X OCC EATD X-X"

CODE INFORMATION

| HORITIES HAMING JURISDICTION: | CITY OF ST. CLAIR, MO (FRANKLIN COUNTY) ST. CLAIR FIRE PROTECTION DISTRICT |
|-------------------------------|---|
| LDING CODE: | INTERNATIONAL BUILDING CODE (IBC) 2003 EDITION |
| <u>ESSIBILITY:</u> | AVERICANS WITH DISABILITIES ACT ICC/ANSI A117.1, REFERENCED BY BUILDING CODE |
| E PREVENTION: | INTERNATIONAL FIRE CODE (IFC) 2003 EDITION, |
| CHANICAL: | INTERNATIONAL MECHANICAL CODE (IMC) 2003 EDITION, |
| <u>CTRICAL:</u> | NFPA 70: NATIONAL ELECTRICAL CODE 2005 EDITION |
| <u>MBNG</u> | INTERNATIONAL PLUVBING CODE (IPC) 2003 EDITION |
| PERTY MAINTENANCE: | INTERNATIONAL PROPERTY MAINTENANCE CODE (IPVC) 2003 EDITION. |

BUILDING INFORMATION

| SULDING INFORMATION | RATINGS | SCE |
|--|---|---|
| E <u>GROUPS</u> ASSEMBLY, LIBRARY MODERATE HAZARD STORAGE (ACCESSORY USE, SEE LIF SAFETY PLAN, SHEET A-002 | 2) DOOR OMNUTE | |
| I <u>NSTRUCTION TYPE:</u> PE IIB NON-SPRINKLERED, NOT PROTECTED | FLOOR 0 HOUR STORAGE 0 HOUR | |
| I <u>SMC CATEGORY:</u> REFER TO CISCA GUIDELINES FOR REQUIREMENTS | | |
| EA: COR ACTUAL GSF DESIGN OCCUPANCY: ST FLOOR 9,411 SF 220 OCCUPANTS LOWABLE HEIGHT AND AREA: E GROUP A-3 IS MOST RESTRICTIVE USE. | | ARCHTECT JEMA 3005 LCOUST ST. ST. LOUS, MO63 T (314) 531-7400 CONTACT: SOOTT E-MAL: SOLARK@ |
| LOWABLE HEIGHT AND AREA, IBC TABLE 503 - 2 STORIES AND 9,500 SF. <u>E RESISTANCE RATINGS - HOURS:</u> LDING ELEMENT TYPE TYPE IIB RUCTURAL FRAVE, COLUMNS, GIRDERS & TRUSSES C ARING WALLS - EXTERIOR INTERIOR C | 3 | ARCHTECT SAPP DESIGNASS 3750 SOUTH FREM SPRINGFIELD, MC T (417) 877-9690 F (417) 877-9696 CONTACT: JAVES E: STUFFLEBEAM |
| N-BEARING WALLS & PARTITIONS - INTERIOR C COR CONSTRUCTION INCLUDING BEAVS & JOIST C OF CONSTRUCTION INCLUDING BEAVS & JOIST C <u>TCAPACITY</u> E EXIT CAPACITY FOR EACH FLOOR AREA MUST BE SUFFICIENT FOR TH CUPANT LOAD AS CALCULATED. EXIT CAPACITY IS DETERMINED BY IDING THE CLEAR WIDTH OF EACH EXIT COVPONENT BY THE APPROPR CTOR NOTED BELOW | | <u>CML</u> CCCHRAN 530A E INDEPEN UNON, MO 63084 CONTACT: DAVEN T (636) 584-0540 F (636) 584-0512 E-MAIL: DVANLEE |
| ORS/AISLES - 0.20" PER OCCUPANT | | STRUCTURAL ALPERAUD, INC. 1804 BORIVAN OF ST. LOUIS, MO 63 T (314) 432-8600 F (314) 807-2774 |
| | ROCCUPANT | CONTACT: STEVE E-MAL: STEVE |
| NERAL LIBRARY STACK AREA ADING ROOMS ETING ROOM(S) (CONCENTRATED CHAIRS ONLY) <u>CTION 903 AUTOMATIC SPRINKLER SYSTEM</u> 3.2.1.3 GROUP A-3, NONE OF THE (3) CONDITIONS PERTAIN TO THE PROJ AUTOMATIC SPRINKLER SYSTEMIS NOT REQUIRED. | 100 SF 50 SF 7 SF JECT THEREFORE | MECHANICAL, ELF BRIC PARTNERS 343 S. KIRKWOOD KIRKWOOD, MOG T (314) 725-5889 CONTACT: BRUCE E: BOOLEVAN@E |
| SECTION 903.2.1.3 GROUP A-3 AN AUTOMATIC SPRINKLER SYSTEM FOR GROUP A-3 OCCUPANCIES WHERE ONE OF THE FOLLOWING (1. THE FIRE AREA EXCEEDS 12,000 SQUARE FEET (1115 M2) 2. THE FIRE AREA HAS AN OCCUPANT LOAD OF 300 OR MO OR 3. THE FIRE AREA IS LOCATED ON A FLOOR OTHER THAN A SERMING SUCH OCCUPANCIES. | CONDITIONS EXISTS: 2); CRE; | ARCHITECT OF R |
| <u>CTION 1016.1 EXIT ACCESS TRAVEL DISTANCE:</u> R NON-SPRINKLERED ASSEMBLY USE GROUP THE MAXIMUM EXIT ACCE | | |
| The maximum extracts of the ma | ROOM SCHEDULE | JOHNE MOAROHTECTU MOCERTIFICATE (|
| | NUMBER NAME | No. Date |

| EGENL | | | | |
|----------------------------------|--------|---------------|--|--|
| | NUMBER | NAME | | |
| 1-HOUR RATED WALL PARTITION | | | | |
| | 500 | VESTIBULE | | |
| RECESSED KNOX BOX CABINET | 501 | CORRIDOR | | |
| | 502 | ELEC./IT | | |
| SEM-RECESSED FIRE | 503 | JAN. CL. | | |
| EXTINGUISHER CABINET | 504 | WOMEN | | |
| | 505 | MEN | | |
| EGRESSPATH | 506 | STORAGE | | |
| | 507 | ADULTS | | |
| XOCC= AREA PER OCCUPANCY LOAD | 508 | MECH / ELEC | | |
| | 509 | STORAGE | | |
| XX= CLEAR OPENING IN INCHES | 510 | CORRIDOR | | |
| AND EGRESS CAPACITY | 511 | CORRIDOR | | |
| | 512 | WORK ROOM | | |
| EXIT ACCESS TRAVEL DISTANCE, MAX | 513 | OFFICE | | |
| CONDITIONWORST CASE INDICATED | 514 | BREAK ROOM | | |
| EXIT SIGN | 515 | STUDY | | |
| EATI SIGN | 516 | STUDY | | |
| | 517 | CIRCULATION | | |
| DIRECTION/LOCATION OF EGRESS | 518 | TEEN AREA | | |
| | 519 | CHILDREN AREA | | |
| | 520 | STORAGE | | |
| | 521 | MEETING ROOM | | |

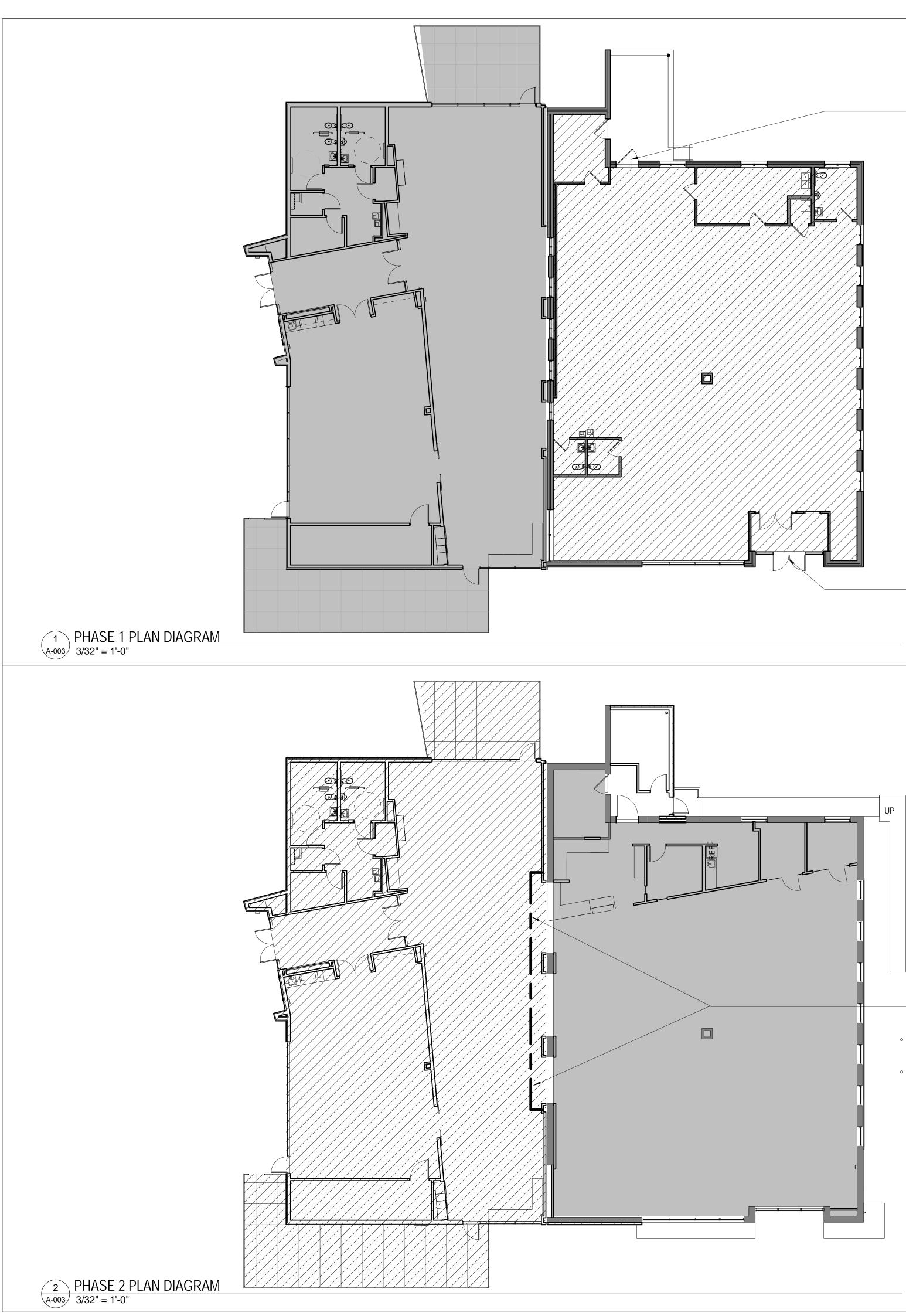
COATS

CIRCULATION

522

523

| Scenic Regional Library read, explore, grow | | | | | | | | |
|---|--|-------------------------|-------------------------|--|--|--|--|--|
| | SCENIC REGIONAL LIBRARY | ST. CLAIR BRANCH | 515 E. SPRINGFIELD ROAD | _ | | | | |
| | anning architecture | | • | NARE SDA RCHITECTS | | | | |
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MEANS OF EGRESS DURING PHASE-1 CONSTRUCTION

MEANS OF EGRESS DURING PHASE-1 CONSTRUCTION

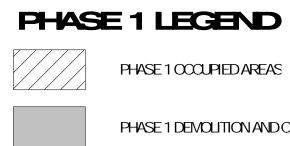
TEMPORARY PARTITION REQUIRED THIS LOCATION DURING PHASE 2 CONSTRUCTION

GENERAL NOTES: PHASING

- 1 TAKE PLACE IN PHASE-2. 2. 3. 4
- 6.
- 7. ALL LIFE SAFETY TO REMAIN IN-PLACE IN OCCUPIED PHASES OF WORK.

GENERAL NOTES: PHASE 1

- 2
- CONSTRUCTION ACTIVITIES.



GENERAL NOTES: PHASE 2

- 3.
- CONSTRUCTION ACTIVITIES. 4. NO INTERIOR ACCESS IS TO BE PROMDED BETWEEN THE OCCUPIED AREA AND THE CONSTRUCTION AREA
- PHASE 2 LEGEND
- PHASE 2 CCCUPIED AREAS

CONSTRUCTION OF THE ADDITION TO THE LIBRARY ON THE PROPERTY WILL BE ONGOING THROUGH TWO PHASES OF CONSTRUCTION, COMPLETION OF THE ADDITION AS PHASE-1 AND THE INTERIOR RENOVATION OF THE EXISTING FACILITY IS TO

THE LIBRARY WILL REVAIN OPEN FOR THE ENTIRE DURATION OF THE CONSTRUCTION MAALL THREE PHASES. ALL PHASES OF CONSTRUCTION REQUIRE COORDINATION WITH SCENIC REGIONAL LIBRARY STAFF. NO INTERIOR ACCESS IS TO BE PROMDED BETWEEN THE OCCUPIED AREA AND THE CONSTRUCTION AREA THE GENERAL CONTRACTOR IS TO COORDINATE WITH THE OWNERS FURNITURE VENDOR AND INSTALLER TO INCORPORATE FURNITURE INSTALLATION INTO HIS SCHEDULE TO COINCIDE WITH THE COVPLETION OF PHASE 1 AND PHASE CONSTRUCTION. CONSTRUCTION FOR EACH PHASE MUST BE COMPLETED AND OCCUPANCY PERMITS GRANTED BY LOCAL AUTHORITY BEFORE NEXT PHASE OF CONSTRUCTION MAY BEGIN. GENERAL CONTRACTOR TO COORDINATE THIS TRANSITION AND PROCURE ALL NECESSARY PERMITS AS REQUIRED TO MAINTAIN PROJECT SCHEDULE.

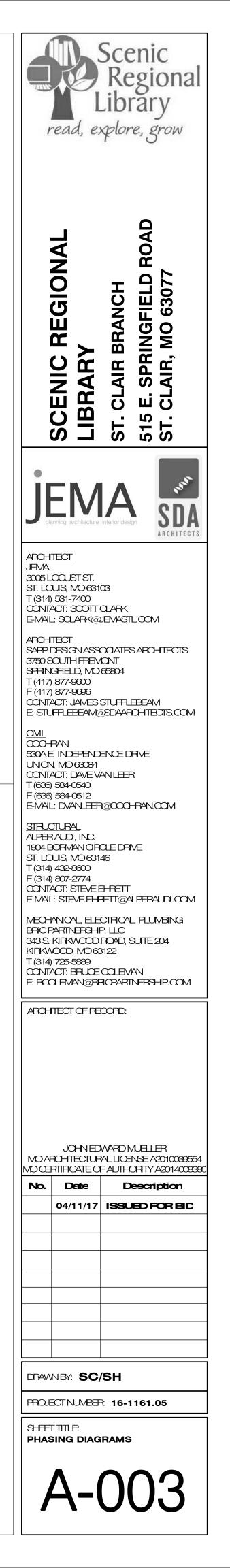
PHASE-1 CONSISTS OF THE COMPLETRE CONSTRUCTION OF THE ADDITION NO SCENIC REGIONAL STAFF OR PATRONS OF THE LIBRARY WILL BE WORKING IN OR HAVE ACCESS TO THE PHASE 1 CONSTRUCTION AREAS DURING PHASE 1 DEMOLITION AND CONSTRUCTION. 3. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROMDING SITE FENCING TO PROTECT ALL PATRONS FROM PHASE-1

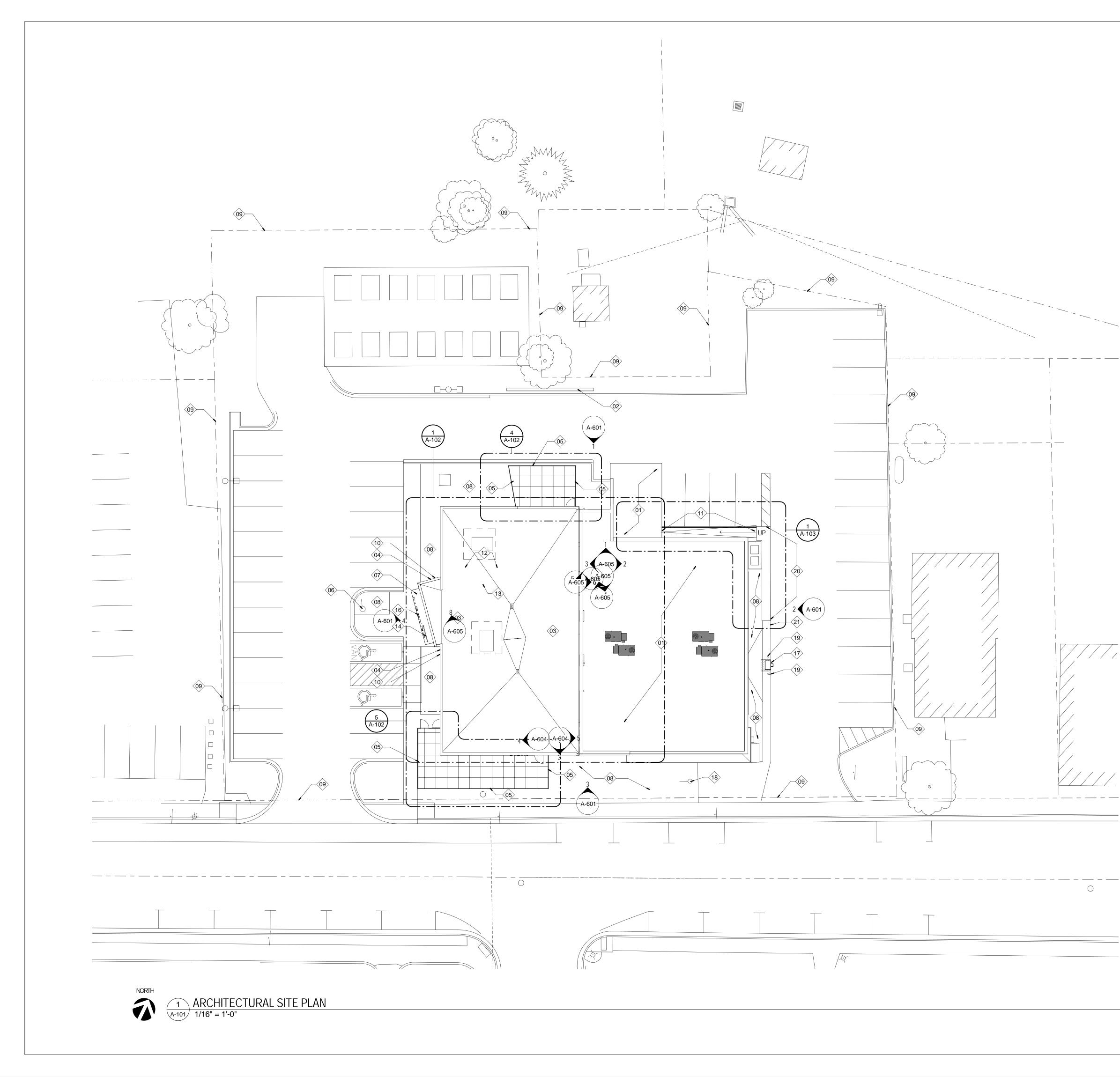
4. NO INTERIOR ACCESS IS TO BE PROMDED BETWEEN THE OCCUPIED AREA AND THE PHASE-1 CONSTRUCTION AREA

PHASE 1 DEVOLITION AND CONSTRUCTION AREAS

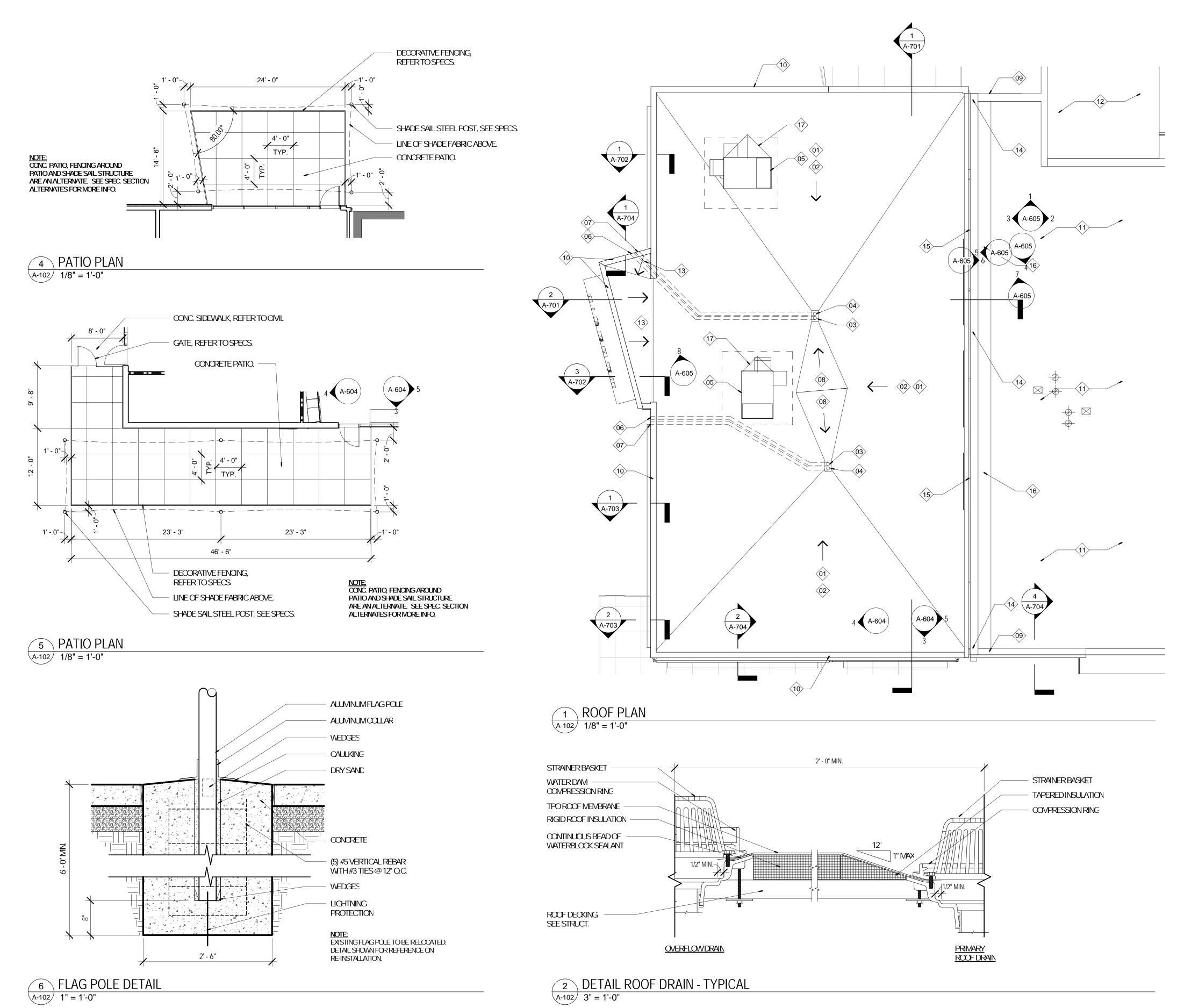
PHASE-2 CONSISTS OF THE INTERIOR RENOVATION OF THE ENTIRE INTERIOR OF THE EXISTING FACILITY. NO SCENIC REGIONAL STAFF OR PATRONS OF THE LIBRARY WILL BE WORKING IN OR HAVE ACCESS TO THE PHASE 2 CONSTRUCTION AREAS DURING PHASE 2 DEMOLITION AND CONSTRUCTION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROMDING SITE FENCING TO PROTECT ALL PATRONS FROM PHASE-2

PHASE 2 DEVOLITION AND CONSTRUCTION AREAS

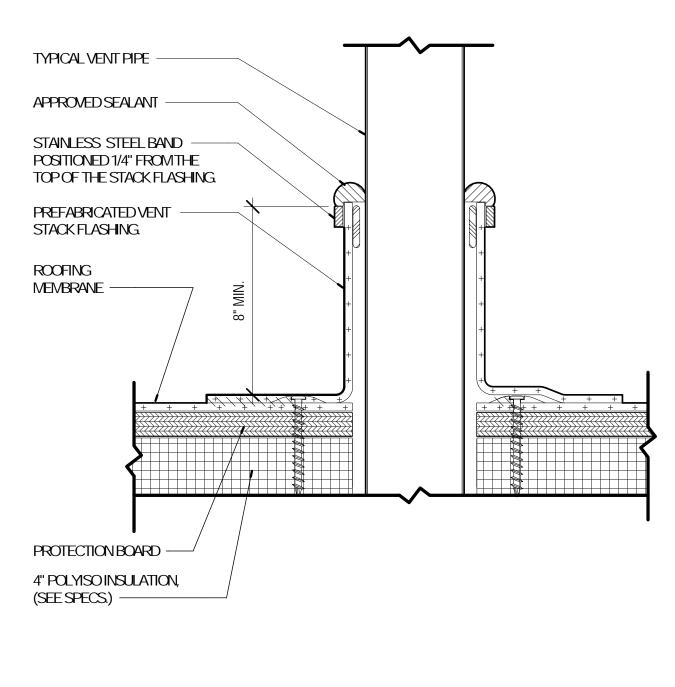




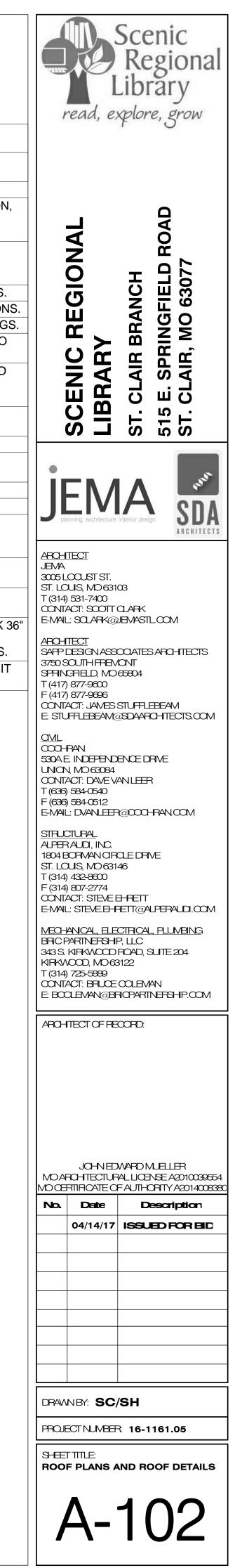
| | read, | Regional Library explore, grow |
|-------------------------------------|--|--|
| Keynote | ED NOTES - SITE PLAN | |
| Number 01 EXISTING ROOF A | Description ASSEMBLY TO REMAIN AS-IS, NO WORK THIS | ROAD |
| AREA. 02 NEW RETAINING V | ASSEMBLY TO REMAIN AS-IS, NO WORK THIS WALL, REFER TO CIVIL DRAWINGS FOR MORE | |
| | ANE, REFER TO SPECS. | NCH FIELD 63077 |
| CIVIL DRAWINGS I | FOR MORE INFO. | AHY AIR BRANCH SPRINGFIELD AIR, MO 6307 |
| AREA. | GPOLE SALVAGED FROM EXISTING ENTRY OMPOSITE METAL PANEL CANOPY, REFER TO | SHAHA CLAIR E E. SPRI CLAIR, |
| SPECS. | OMPOSITE METAL PANEL CANOPY, REFER TO REFER TO LANDSCAPE PLAN. | |
| 09 PROPERTY LINE | | S1 51 |
| DRAIN NOZZLE. | ADE, SEE ELEVATIONS FOR LOCATIONS OF | |
| REFER TO ENLAR | RAMP FROM EXISTING DOCK TO GRADE, GED PLAN AND DETAILS. PING PENETRATION, SEE ROOF DETAIL. | AA s DA s DA |
| 13 PLUMBING EXHAU | JST PIPING PENETRATION, SEE ROOF DETAIL. ED BIKE RACK, REFER TO SPECS. | ARCHITECTS |
| INFORMATION | GE - REFER TO SPECS. FOR MORE JEVA 3005 LOOUST ST. LOUIS, MO | 063103 |
| | DROP UNIT, REFER TO SPECS. OLE TO BE REMOVED, SALVAGED AND EW ENTRY. T (314) 531-740 CONTACT: SOL E-MAIL: SOLAF | |
| 19 TRAFFIC BOLLARI | D, REFER TO CIVIL DRAWINGS. RETE WALK, REFER TO ENLARGED PLAN AND | |
| DETAILS. 21 STANDARD CONC | RETE WALK, REFER TO CIVIL DRAWINGS. F (417) 877-960 F (417) 877-960 F (417) 877-960 F (417) 877-960 | 00 |
| | | AM@SDAARCHTECTS.COM |
| | 000-FAN 530A E INDEP UNON, MO 63 | |
| | CONTACT: DAY T (636) 584-05- F (636) 584-05- F (636) 584-05- | 40 12 |
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| | F (314) 807-277 CONTACT: STE E-MAL: STEVE | |
| | BRICPARINE | ELECTRICAL, PLUMBING RSHP, LLC DOD ROAD, SUITE 204 |
| | KIRKWOOD, M T (314) 725-588 CONTACT: BR | 1063122 39 LCE COLEVAN |
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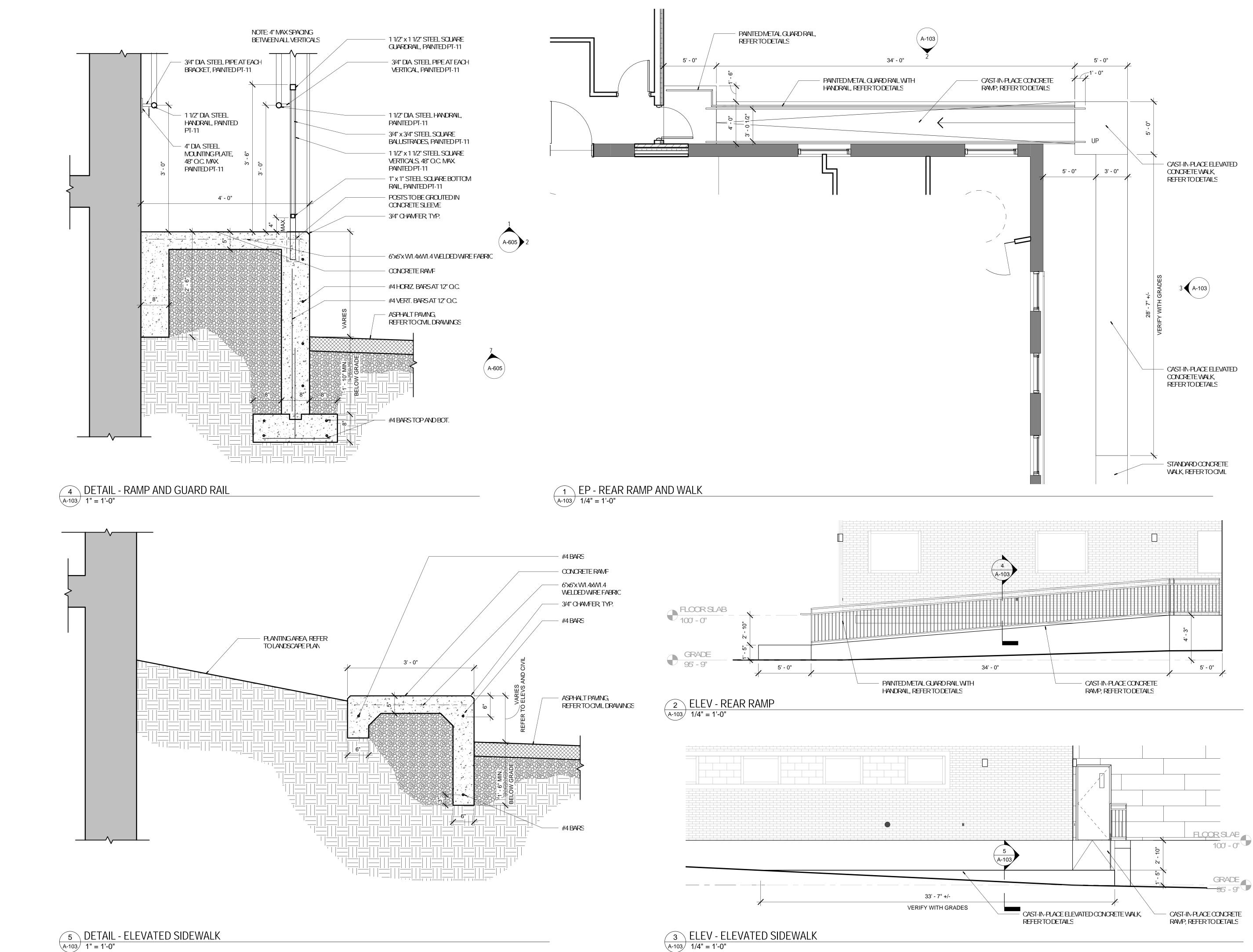


| | KEYED NOTES - ROOF | | | | | | | |
|-------------------|---|--|--|--|--|--|--|--|
| KEYNOTE NUMBER | DESCRIPTION | | | | | | | |
| 01 | ROOF MEMBRANE OVER COVER BOARD, TAPERED INSULATION, 4" RIGID INSULATION ON METAL DECKING, REFER TO SPECIFICATIONS. | | | | | | | |
| 02 | STRUCTURE IS SLOPED, ENSURE MIN. 1/4" SLOPE TO DRAINS USING TAPERED INSULATION WHERE REQUIRED, REFER TO SPECIFICATIONS. | | | | | | | |
| 03 | PRIMARY ROOF DRAIN, REFER TO PLUMBING SPECIFICATIONS. | | | | | | | |
| 04 | OVERFLOW ROOF DRAIN, REFER TO PLUMBING SPECIFICATIONS | | | | | | | |
| 05 | NEW ROOFTOP MECHANICAL UNIT, REFER TO MECH. DRAWINGS. | | | | | | | |
| 06 | DRAIN LEADER TO TIE INTO UNDERGROUND PIPING, REFER TO CIVIL DRAWINGS FOR MORE INFO. | | | | | | | |
| 07 | OVER FLOW ROOF DRAIN LEADER DOWN EXTERIOR WALL AND DAYLIGHT TO GRADE, SEE ELEVATIONS FOR LOCATIONS OF DRAIN NOZZLE. | | | | | | | |
| 08 | TAPERED INSULATION CRICKET, ENSURE MIN. 1/4" SLOPE TO DRAINS. | | | | | | | |
| 09 | EXISTING WALL COPING TO REMAIN, REFER TO DETAIL. | | | | | | | |
| 10 | NEW PRELINISHED WALL COPING, REFER TO DETAILS AND SPECIFICATIONS. | | | | | | | |
| 11 | EXISTING MEMBRANE ROOFING TO REMAIN. | | | | | | | |
| 12 | EXISTING METAL ROOFING TO REMAIN. | | | | | | | |
| 13 | STRUCTURE IS FLAT THIS AREA, ENSURE MIN. 1/4" SLOPE TO DRAINS USING TAPERED INSULATION, REFER TO SPECIFICATIONS. | | | | | | | |
| 14 | HEIGHT OF EXISTING PARAPET WALL TO BE EXTENDED UN HEIGHT, REFER TO SECTION DETAIL. | | | | | | | |
| 15 | 3" WIDE EXPANSION JOINT, REFER TO SECTION DETAIL AND SPECIFICATIONS. | | | | | | | |
| 16 | NEW ROOF MEMBRANE FROM UNDER NEW COPING CAP BACK 36 ON EXISTING ROOF AND ADHERED TO EXISTING ROOF MEMBRANE, REFER TO SECTION DETAIL AND SPECIFICATIONS. | | | | | | | |
| 17 | PROVIDE TAPERED INSULATION CRICKET AT MECHANICAL UNIT CURB. | | | | | | | |

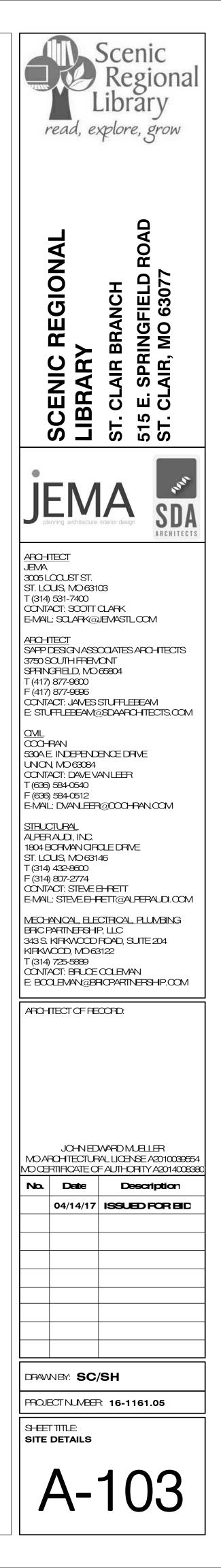


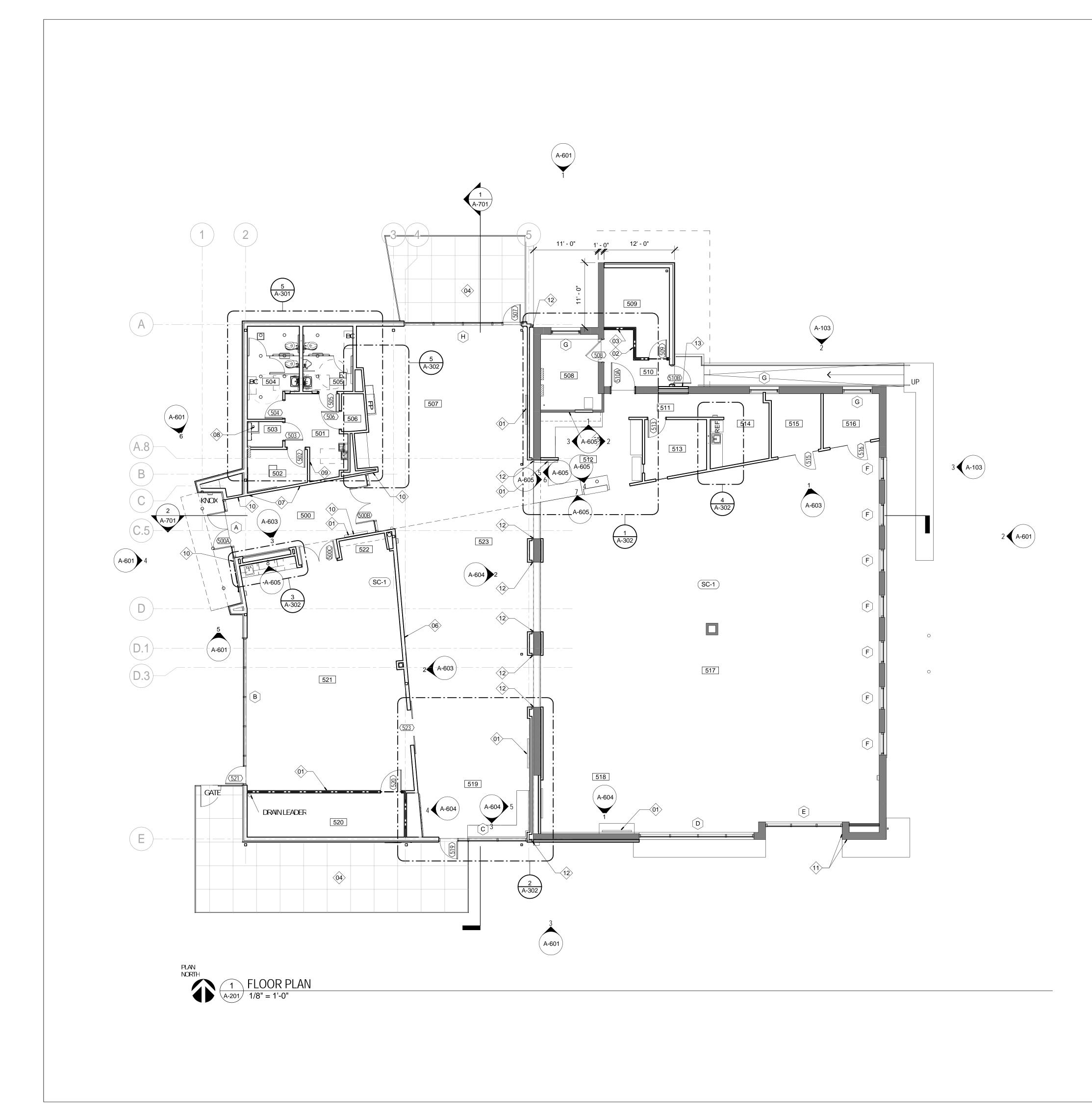
3 DETAIL - ROUND PENETRATION A-102 1" = 1'-0"

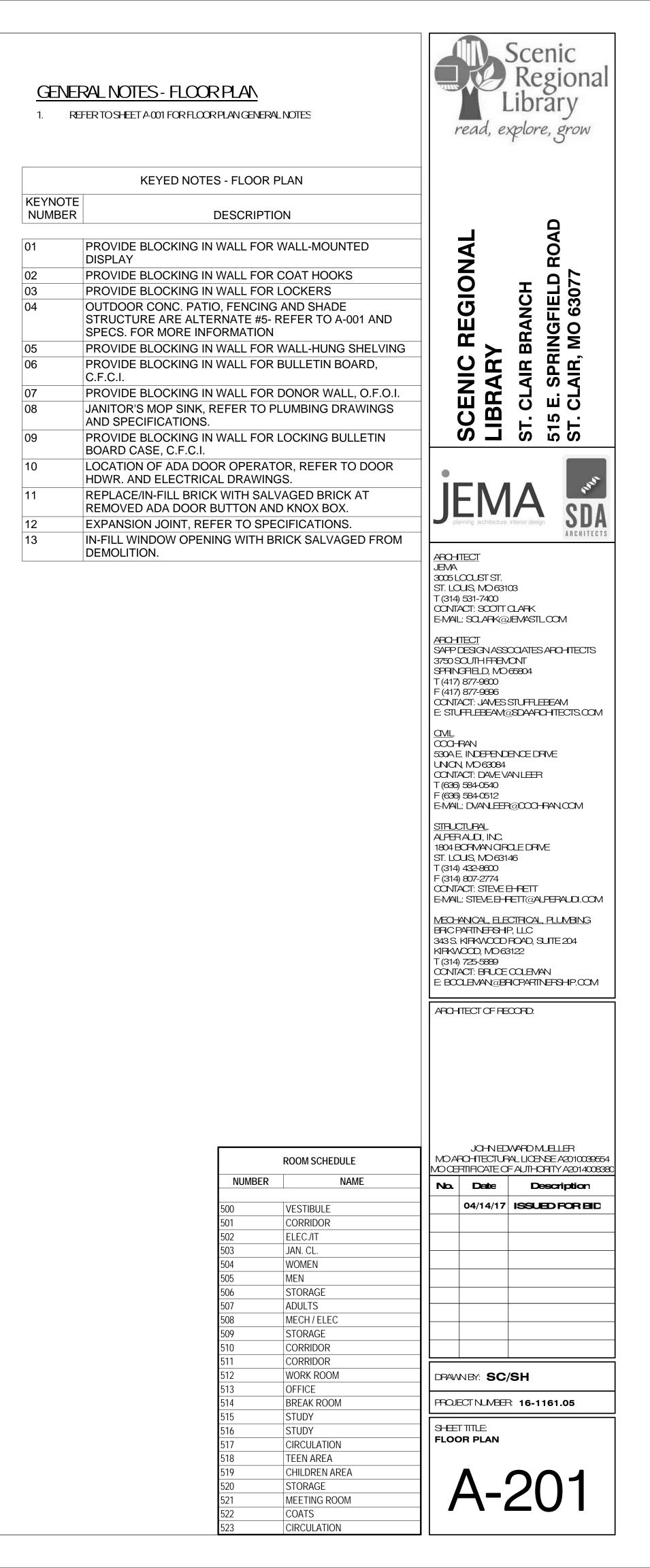


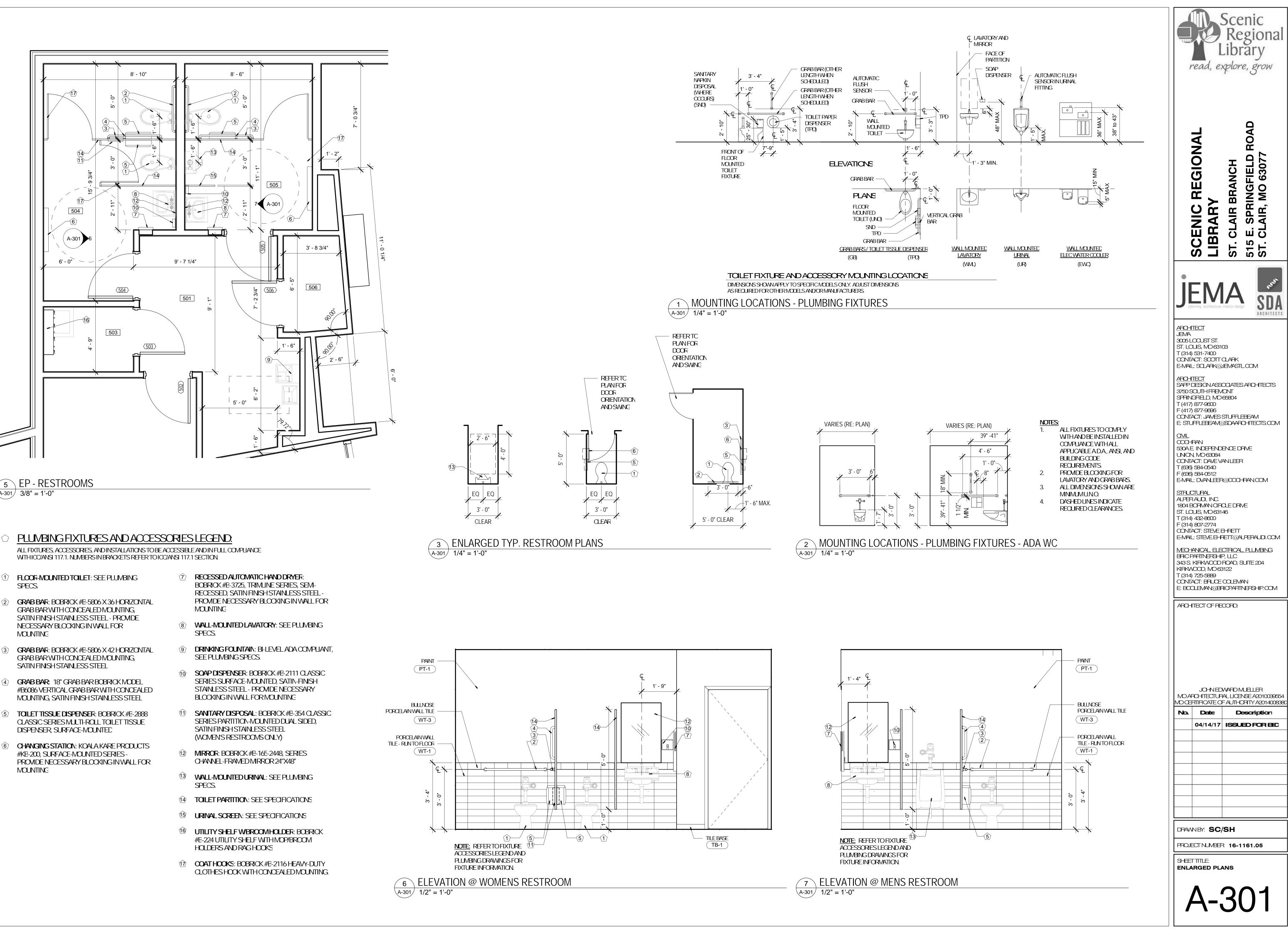


A-103 1/4" = 1'-0"





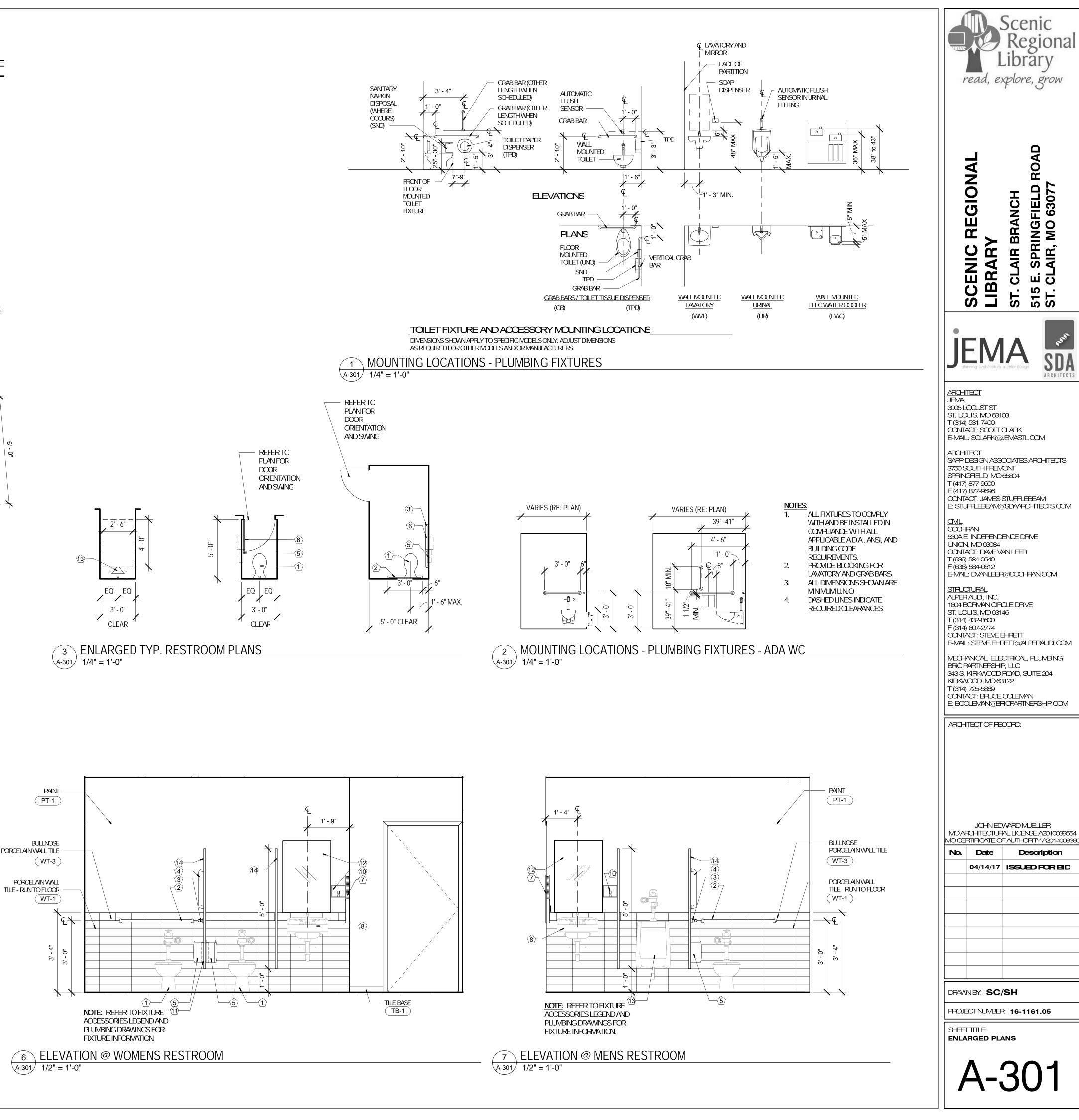


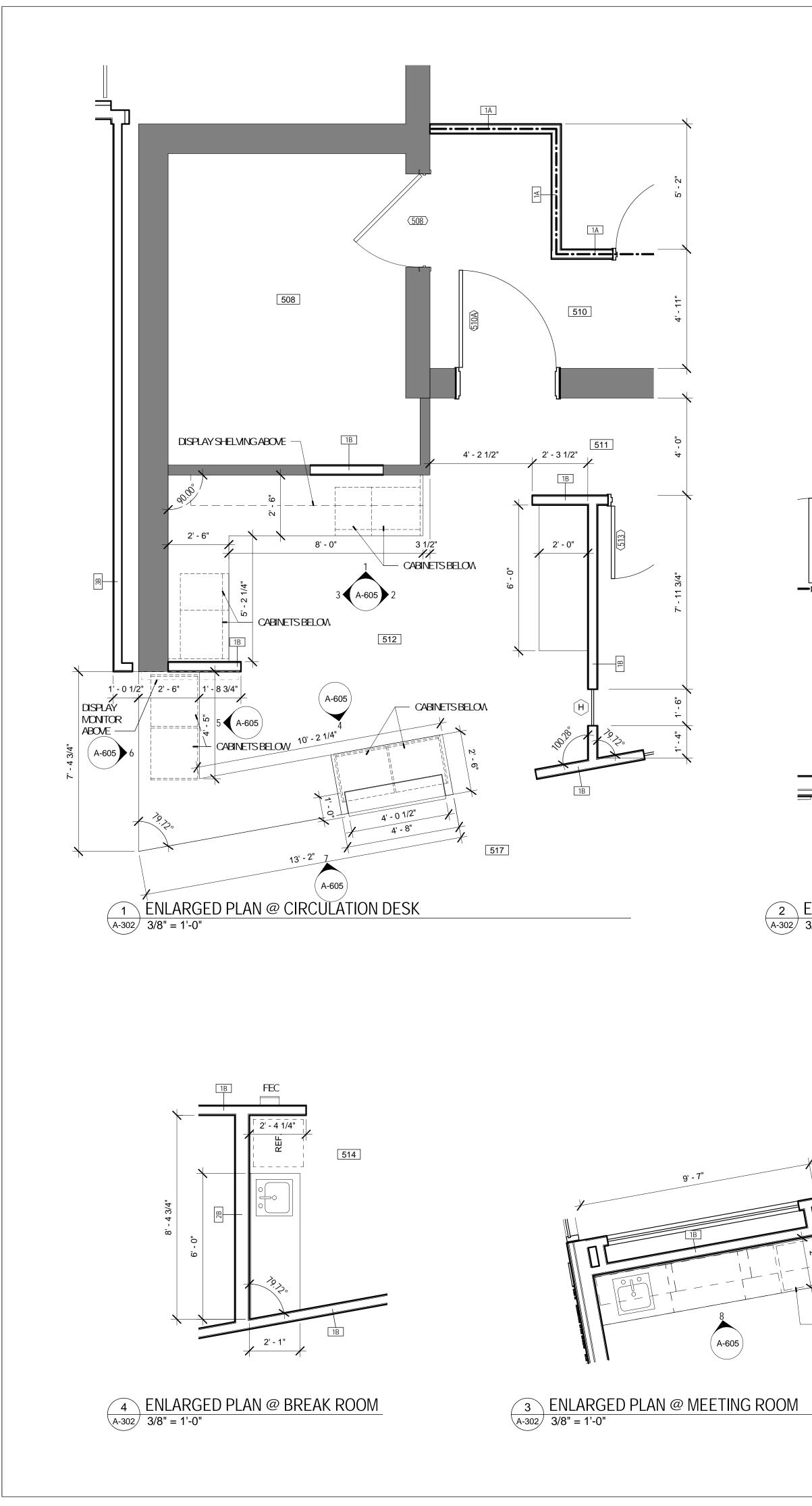


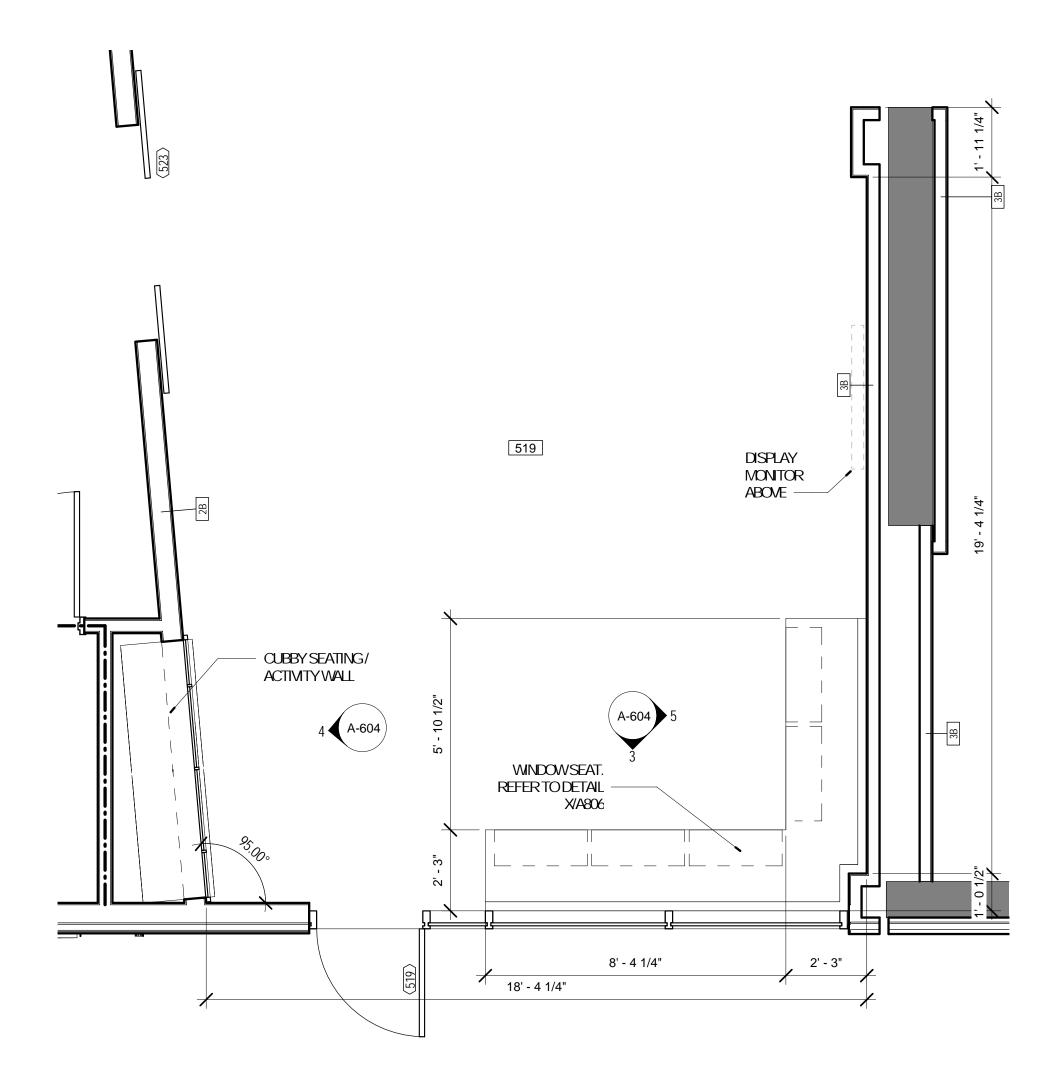
5 EP - RESTROOMS A-301 3/8" = 1'-0"

PLUVBING FIXTURES AND ACCESSORIES LEGEND.

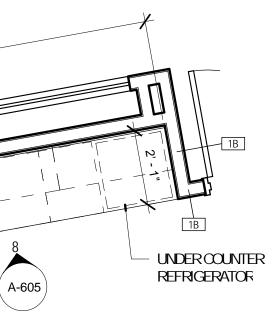
- (4) GRAB BAR: 18" GRAB BAR BOBRICK MODEL

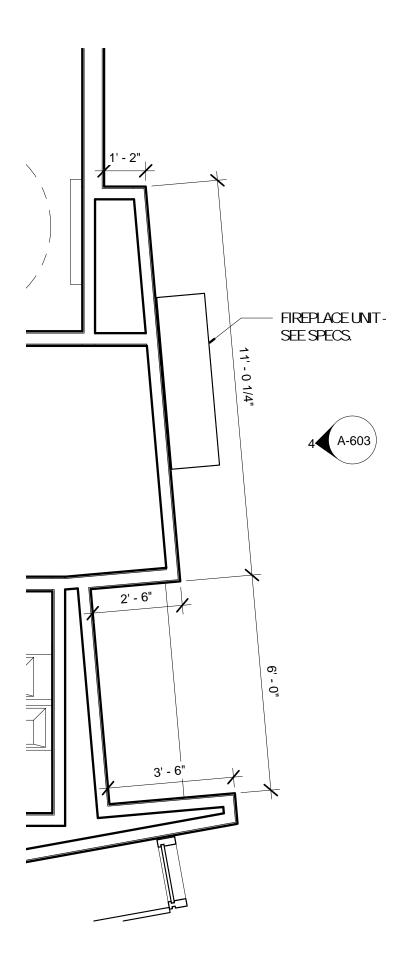






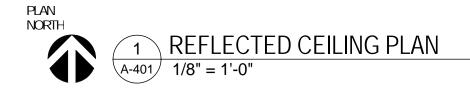
2 ENLARGED PLAN @ CHILDREN AREA A-302 3/8" = 1'-0"

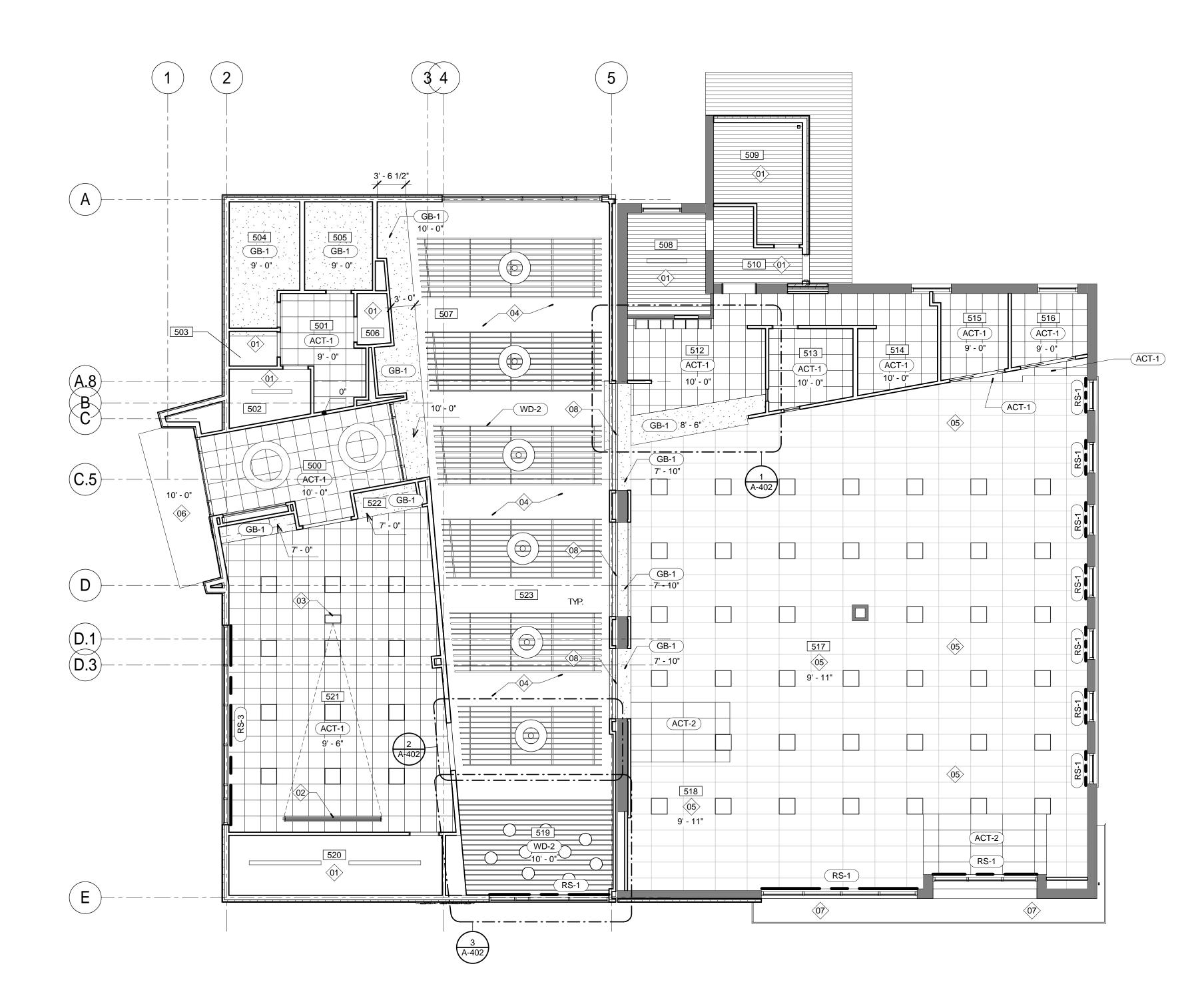




5 ENLARGED PLAN @ ADULT AREA A-302 3/8" = 1'-0"

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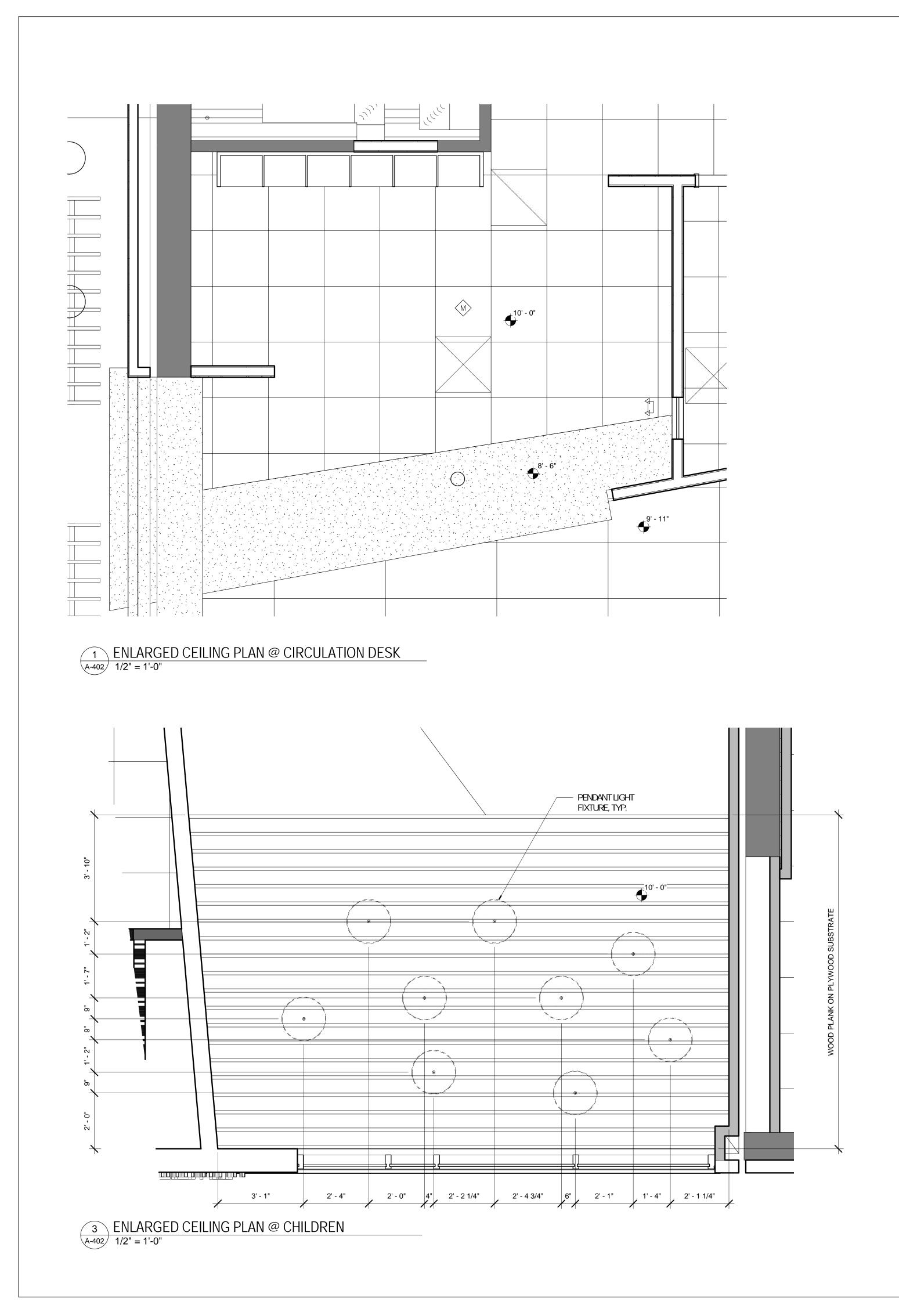


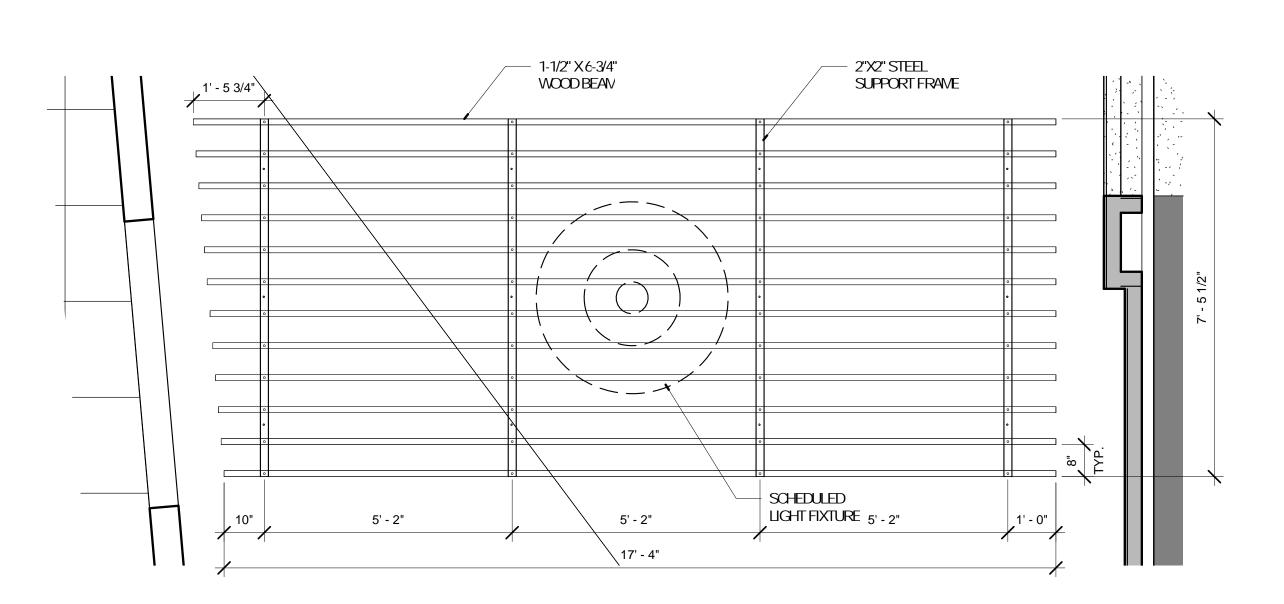
GENERAL NOTES - RCF

1. REFER TO SHEET A-001 FOR RCP GENERAL NOTES.

| | KEYED NOTES - RCP | | | | | | | | |
|-------------------|---|--|--|--|--|--|--|--|--|
| Keynote Number | Description | | | | | | | | |
| 01 | NO CEILING THIS ROOM/AREA | | | | | | | | |
| 02 | POWERED PROJECTOR SCREEN, REFER TO SPECS. | | | | | | | | |
| 03 | LOCATION OF PROJECTOR, OFCI. CONTRACTOR TO PROVIDE ALL SUPPORT ABOVE CEILING FOR PROJECTOR. | | | | | | | | |
| 04 | PAINT ALL EXPOSED STRUCTURE, DECKING, CONDUIT, PIPING, HANGER, LIGHT FIXTURE CABLING, ETC PT-2.FACE OF ADJACENT PARTITION, WHERE EXISTS - REFER TO PLAN | | | | | | | | |
| 05 | EXISTING ACT CEILING GRID TO REMAIN. PROVIDE NEW CEILING TILE ACT-2 | | | | | | | | |
| 06 | COMPOSITE METAL PANEL WRAPPED CANOPY - REFER TO SPECIFICATIONS | | | | | | | | |
| 07 | COMPOSITE METAL PANEL ON EXISTING CANOPY - REFER TO SPECIFICATIONS | | | | | | | | |
| 08 | EXPANSION JOINT, REFER TO SPECIFICATIONS. | | | | | | | | |

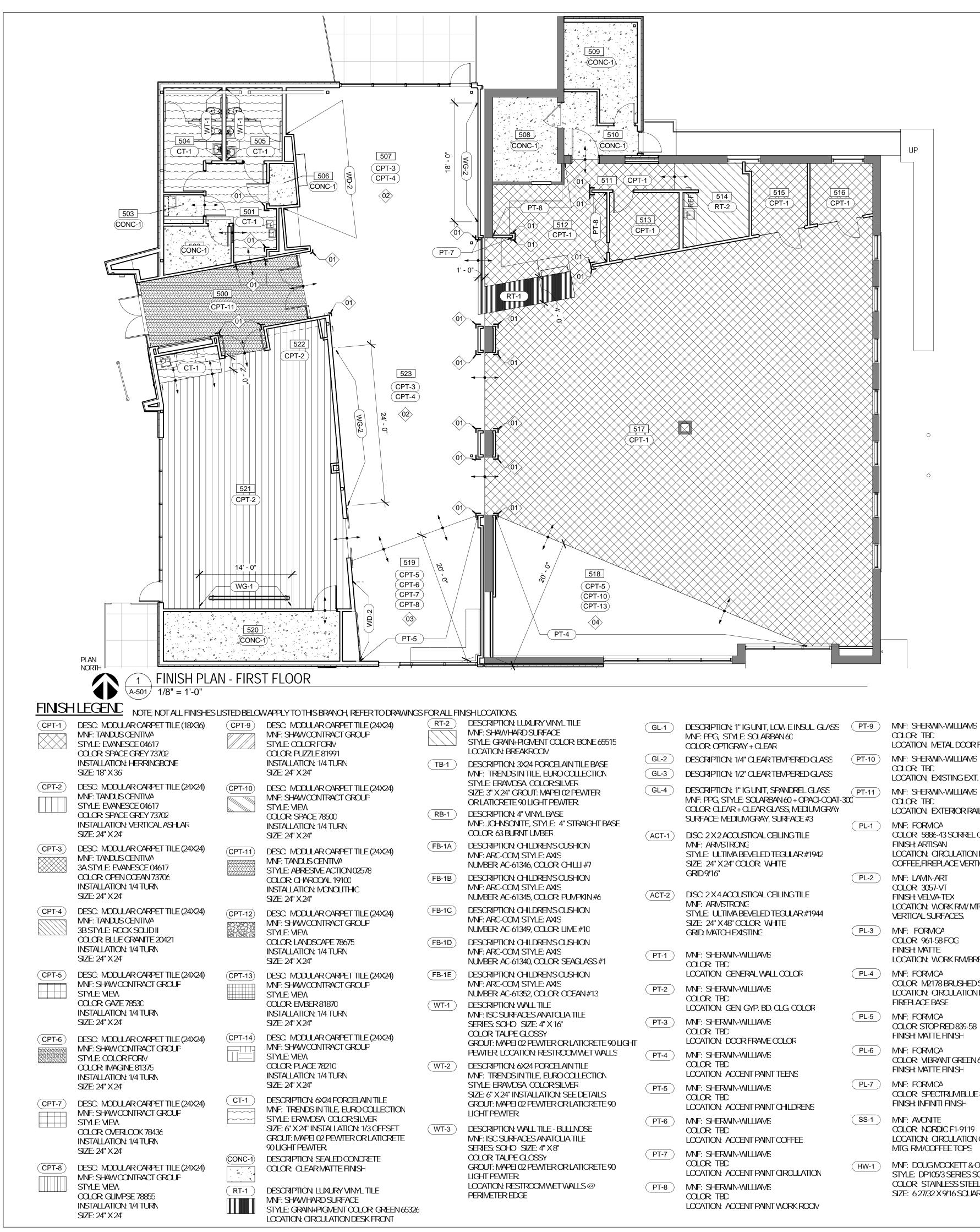






2 ENLARGED CEILING PLAN @ DECORATIVE CLOUD A-402 1/2" = 1'-0"





| ₩SE | GL-2 | DESCRIPTION: 1/4" CLEAR TEMPERED GLASS | (PT-10 |
|-------------|-------------|---|----------|
| ON | GL-3 | DESCRIPTION: 1/2" CLEAR TEMPERED GLASS | |
| R T BASE | GL-4 | DESCRIPTION: 1" IG UNIT, SPANDREL GLASS MNF: PPG, STYLE: SOLARBAN 60 + OPACI-COAT-3 COLOR: CLEAR + CLEAR GLASS, MEDIUMGRAY SURFACE: MEDIUMGRAY, SURFACE #3 | 00 PT-11 |
| | ACT-1 | DISC: 2 X 2 ACOUSTICAL CEILING TILE MNF: ARMSTRONG STYLE: ULTIMA BEVELED TEGULAR #1942 SIZE: 24" X 24" COLOR: WHITE GRID 9/16" | PL-2 |
| 6 | ACT-2 | DISC: 2 X 4 ACOUSTICAL CEILING TILE MNF: ARVISTRONG STYLE: ULTIMA BEVELED TEGULAR #1944 SIZE: 24'' X 48' COLOR: WHITE GRID: MATCH EXISTING | PL-3 |
| #1 | PT-1 | MNF: SHERWIN-WILLIAMS COLOR: TBD LOCATION: GENERAL WALL COLOR | PL-4 |
| l | PT-2 | MNF: SHERWIN-WILLIAVIS COLOR: TBD LOCATION: GEN. GYP. BD. CLG. COLOR | |
| TE 90 LIGHT | PT-3 | MNF: SHERWIN-WILLIAVE COLOR TBD LOCATION: DOOR FRAVE COLOR | (PL-5 |
| VALLS ON | PT-4 | MNF: SHERWIN-WILLIAVE COLOR: TBD LOCATION: ACCENT PAINT TEENS | (PL-6 |
| LS TE 90 | PT-5 | MNF: SHERWIN-WILLIAVIS COLOR: TBD LOCATION: ACCENT PAINT CHILDRENS | (PL-7 |
| | PT-6 | MNF: SHERWIN-WILLIAVIS COLOR: TBD LOCATION: ACCENT PAINT COFFEE | SS-1 |
| TE 90 | PT-7 | MNF: SHERWIN-WILLIAVE COLOR: TBC LOCATION: ACCENT PAINT CIRCULATION | (HW-1 |
| | PT-8 | MNF: SHERWIN-WILLIAVIS COLOR: TBC LOCATION: ACCENT PAINT WORK ROOM | |

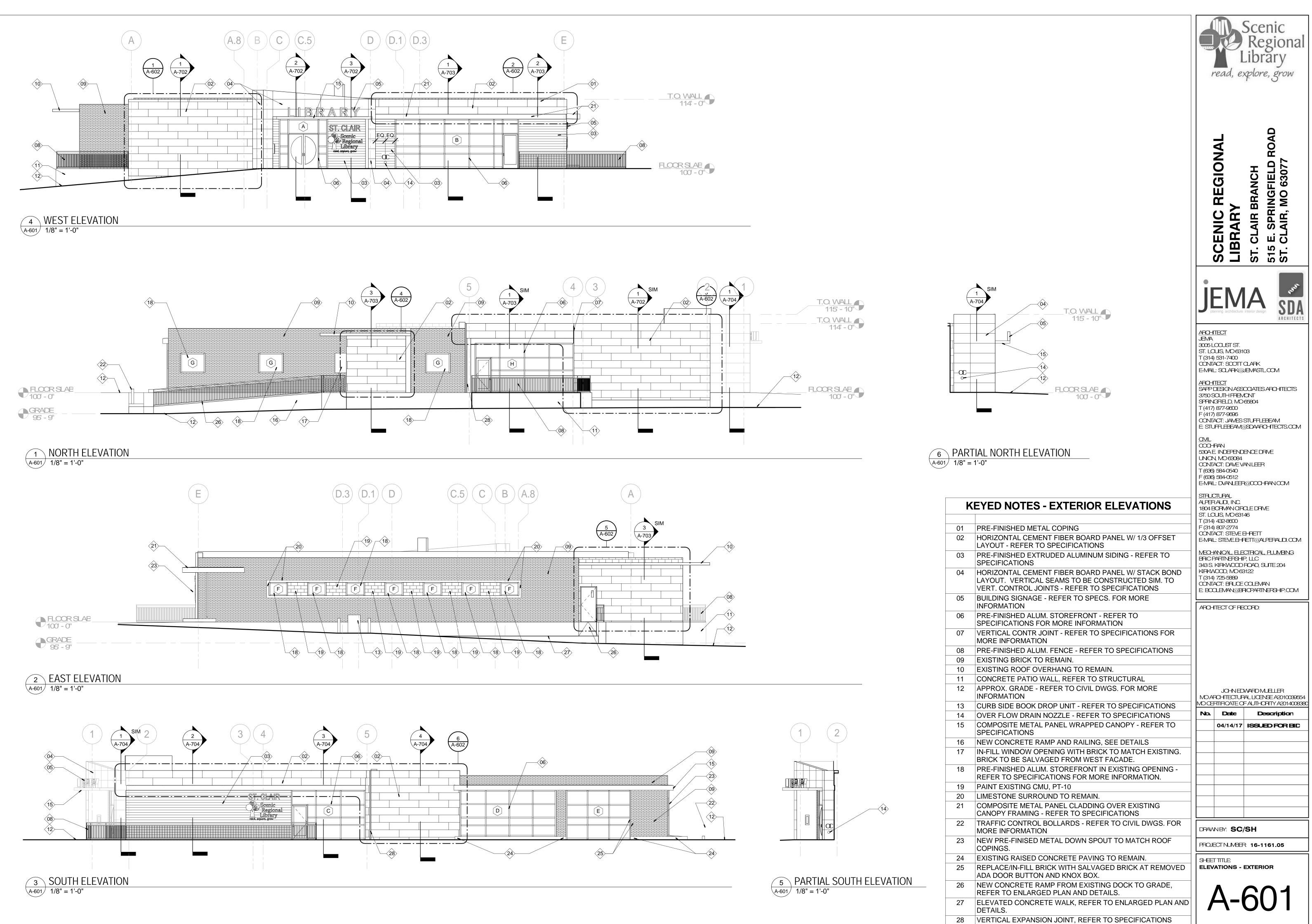
| -9 | MNF: SHERWIN-WILLIAWS COLOR TBE LOCATION: METAL DOOR FRAVES |
|-----|---|
| -10 | MNF: SHERWIN-WILLIAVS COLOR TBC LOCATION: EXISTING EXT. CML |
| -11 | MNF: SHERWIN-WILLIAVS COLOR TBC LOCATION: EXTERIOR RAILINGS |
| -1 | MNF: FORMCA COLOR 5886-43 SORREL CHERRY FINISH; ARTISAN LOCATION: CIRCULATION DESK/ COFFEE,FIREPLACE VERTICAL SURFACES. |
| 2 | MNF: LAMN-ART COLOR 3057-VT FINISH: VELVA-TEX LOCATION: WORK RM/ MTG. RM/BREAK RM VERTICAL SURFACES. |
| 3 | MNF: FORMCA COLOR 961-58 FOG FINISH: MATTE LOCATION: WORK RM/BREAK RM TOPS |
| 4 | MNF: FORMCA COLOR M2178 BRUSHED STAINLESS STEEL LOCATION: CIRCULATION DESK AND FIREPLACE BASE |
| -5 | MNF: FORMCA COLOR STOP RED 839-58 FINISH: MATTE FINISH |
| 6 | MNF: FORMCA COLOR: MBRANT GREEN 6901-58 FINISH: MATTE FINISH |
| -7 | MNF: FORMCA COLOR: SPECTRUMBLUE 851-AN FINISH: INFINITI FINISH |
| 6-1 | MNF: AVONITE COLOR NORDIC F1-9119 LOCATION: CIRCULATION COUNTER INSET, MTG RM/COFFEE TOPS |
| V-1 | MNF: DOUGMOCKETT & COMPANY, INC. STYLE: DP105/3 SERIES SQUARE PULL COLOR: STAINLESS STEEL SIZE: 627/32 X9/16 SQUARE PULL |
| | |

| | <u>CENERAL NOTES - FINISH PLAN</u> 1. FINISH PLANGENERAL NOTE KEYED NOTES - FINISH PLAN | | | | | | | | | Scenic Regional Library read, explore, grow |
|---|---|---|----------------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|--|---|
| | | | | | - | Keynote | | RETEDINC | | - |
| | | | | | | Number | | | Description | |
| | | | | | | 01 | PROVID SPECS. | | R GUARD THIS LOCATION, SEE | AAL AAL |
| | | | | | | 02 | | | CPT-3 AND CPT-4 THIS AREA, SEE PATTERN LAYOUT. | |
| | | | | | | 03 | THIS AF | REA. | CPT-5, CPT-6, CPT-7 AND CPT-8 | GIO 6307 6307 |
| | | | | | | 04 | | NATION OF | CPT-5, CPT-10 AND CPT-13 THIS | SCENIC REGIO LIBRARY ST. CLAIR BRANCH 515 E. SPRINGFIELD ST. CLAIR, MO 6307 |
| | | | | R | OOM FINISH S | SCHEDULE | - 1ST FLOOR | | | |
| | | FLOOR FLOOR | | NORTH | WAI SOUTH | EAST | WEST | CEILING | | JEMA SDA |
| NUMBER | | FINISH | BASE | WALL | WALL | WALL | WALL | FINISH | REMARKS | ARCHITECTS |
| 500 501 502 | VESTIBULE CORRIDOR ELEC./IT | CPT-11 CT-1 CONC-1 | RB-1 CB-1 RB-1 | PT-1 PT-1 PT-1 | PT-1 PT-1 PT-1 | PT-1 PT-1 PT-1 | PT-1 PT-1 PT-1 | ACT-1 ACT-1 N/A | | ARCHTECT JEVA 3005 LOOUST ST. |
| 502 503 504 | JAN. CL. WOMEN | CONC-1 CT-1 | RB-1 TB-1 | PT-1 PT-1 | PT-1 PT-1 | PT-1 PT-1/WT- | PT-1 PT-1 | N/A GB-1 | NO TB-1 ON WET WALL, REF ELEVATION | - ST. LOUIS, MO 63103 - T (314) 531-7400 - CONTACT: SCOTT CLARK |
| 505 | MEN | CT-1 | TB-1 | PT-1 | PT-1 | 1 PT-1 | PT-1/WT-1 | GB-1 | NO TB-1 ON WET WALL, REF ELEVATION | E-MAIL: SOLARK@JEWASTL.COM |
| 506 507 | STORAGE ADULTS | CONC-1 CPT-3/CPT-4 | TB-1 RB-1 | PT-1 PT-1 | PT-1 PT-1 | | PT-1 PT-1/WG-2 | N/A GB-1/WD-2 | | SAPP DESIGNASSOCIATES APOHTECTS 3750 SOUTH FREMONT SPRINGFIELD, MO65804 |
| 508 | MECH / ELEC | CONC-1 | RB-1 | PT-1 | PT-1 | 2 PT-1 | PT-1 | N/A | | T (417) 877-9600 F (417) 877-9696 |
| 509 510 | STORAGE CORRIDOR | CONC-1 CONC-1 | RB-1 RB-1 | PT-1 PT-1 | PT-1 PT-1 | PT-1 PT-1 | PT-1 PT-1 | N/A N/A | | E: STUFFLEBEAM@SDAARCHTECTS.COM |
| 511 512 | CORRIDOR WORK ROOM | CPT-1/RT-2 CPT-1 | RB-1 RB-1 | PT-1 PT-8 | PT-1 PT-1 | PT-1 PT-8 | PT-1 PT-8 | ACT-1 ACT-1/GB-1 | | Image: Cool - RAN Image: State And American Cool - RAN Image: State And American Cool - RAN |
| 513 514 | OFFICE BREAK ROOM | CPT-1 RT-2 | RB-1 RB-1 | PT-1 PT-1 | PT-1 PT-1 | PT-1 PT-1 | PT-1 PT-1 | ACT-1 ACT-1 | | - UNCN, MO 63084 CONTACT: DAVE VAN LEER |
| 515 516 | STUDY STUDY | CPT-1 CPT-1 | RB-1 RB-1 | PT-1 PT-1 | PT-1 PT-1 | PT-1 PT-1 | PT-1 PT-1 | ACT-1 ACT-1 | | T (636) 584-0540 F (636) 584-0512 E-MAL: DVANLEER@CCCI-FAN.CCM |
| 517 518 | CIRCULATION TEEN AREA | CPT-1 CPT-5,10,13 | RB-1 RB-1 | PT-1 N/A | PT-1/PT-4 PT-4 | PT-1 N/A | PT-1 PT-4 | ACT-1 ACT-1 | | STRUCTURAL ALPERALD, INC. |
| 519 | CHILDREN AREA STORAGE | CPT-5,6,7,8 CONC-1 | RB-1 | N/A PT-1 | PT-5 | PT-1 PT-1 | PT-5/WD-2 PT-1 | | | 1804 BORVAN ARALE DRVE ST. LOUIS, MO 63146 |
| 520 521 | MEETING ROOM | CONC-1 CPT-2 | RB-1 RB-1 | PT-1 PT-1 | PT-1 PT-1/WG-1 | PT-1 PT-1 | PT-1 PT-1 | N/A ACT-1 | SOFFIT AT COUNTER TO BE GB-1 | _ T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE B-R ETT |
| 522 523 | COATS CIRCULATION | CPT-2 CPT-3/CPT-4 | RB-1 RB-1 | PT-1 N/A | N/A N/A | PT-1 PT-1 | PT-1 PT-1/WG-2 | GB-1 WD-2 | | - E-MAIL: STEVE & RETT@ALPERALDI.COM - MECHANICAL, ELECTRICAL, PLUMBING |
| MNF: | N: MNYL WALL G LAN AND ELEVATI | | | | | | | | | BRIC PARTINERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO 63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BOOLEMAN@BRICPARTINERSHP.COM |
| MNF: ARC-CC TYPE II MNM SIZE: 24'-0' \ REP CONTAC DESCRIPTIC MNF: SWF CC FABRIC COL | L, CUSTOMIMAGE MIDE BY 8-0' TALI CT: AFTEN ZURLIE AZURLIENE@ N: SINGLE MANUA ONTRACT OR PEARL GRAY, | E TO BE DETER L, BOT. AT 6'-0' / ENE, 314-465-225 ARC-COMCOV | VINED. AFF. 57 DE | | | | | | | JOHNEDWARD MUELLER |
| MNF: SWF O | N: SINGLE MANUA ONTRACT | | | | | | | | ROOM SCHEDULE NUMBER NAME | MOARCHTECTURAL LICENSE A2010039654 MOCERTIFICATE OF AUTHORITY A2014008380 No. Date Description |
| | FULL BLACK-OUT N: DUEL MANUAL | - | | Æ | | | | | 500 VESTIBULE | 04/14/17 ISSUED FOR BID |
| MNF: SWF O FABRIC COL | ONTRACT OR: PEARL GRAY, | | | - | | | | | 501 CORRIDOR 502 ELEC./IT | |
| OPENNESS: OPENNESS: | 10% FULL BLACK-OUT | , BLACK DUPLE | X R6039 | | | | | | 503 JAN. CL. 504 WOMEN EQE MEN | |
| MNF: JOHNS | N: 4" MNYL BASE ONITE I STRAIGHT BASE | | RNTUMBF | R | | | | | 505 MEN 506 STORAGE 507 ADULTS | |
| | PSUMBOARC | | _, | | | | | | 508MECH / ELEC509STORAGE510CORRIDOR | |
| SPECIES: RE | | | | | | | | | 510CORRIDOR511CORRIDOR512WORK ROOM | DRAWN BY: SC/SH |
| MATCH SLIF | | S | | | | | | | 512Work(Room513OFFICE514BREAK ROOM | PROJECT NUMBER: 16-1161.05 |
| CHOCOLATE | | | | | | | | | 515 STUDY 516 STUDY | |
| SPECIES: WA | HTE MAPLE SLICED VENEER | | | | | | | | 517CIRCULATION518TEEN AREA | FINISH PLAN/LEGEND |
| FINISH: CLEA LOOCATION: | AR SATIN CEILING AND WA | NLS | | | | | | | 519CHILDREN AREA520STORAGE | A-501 |
| | | | | | | | | | 521MEETING ROOM522COATS | |
| | | | | | | | | | 523 CIRCULATION | |

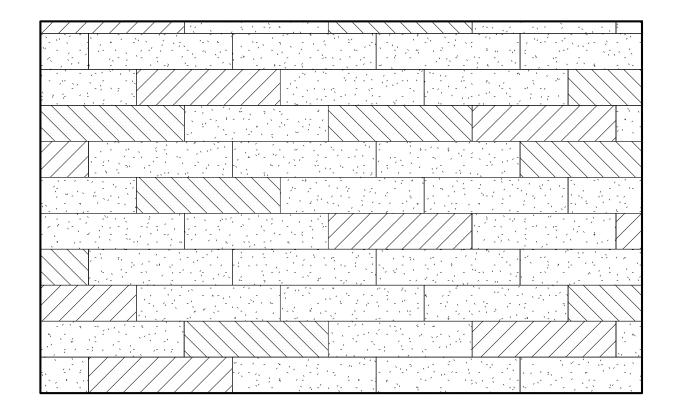
| WG-1 | DESCRIPTION: MNML WALL GRAPHIC MNF: |
|------|---|
| | SIZE: SEE PLAN AND ELEVATION |
| WG-2 | DESCRIPTION: CUSTOM DIGITAL WALL IMAGE MNF: ARC-COV TYPE II MINL, CUSTOM IMAGE TO BE DETERMIN SIZE: 24'-0' WIDE BY 8-0' TALL, BOT. AT 6'-0' AFF REP CONTACT: AFTEN ZURLIENE, 314-465-2257 AZURLIENE@ARC-COMCOV |
| RS-1 | DESCRIPTION: SINGLE MANUAL ROLLER SHADE MNF: SWF CONTRACT FABRIC COLOR: PEARL GRAY, SHEARWEAVE 236 OPENNESS: 10% |
| RS-2 | DESCRIPTION: SINGLE MANUAL BLACK-OUT SHA MNF: SWF CONTRACT OPENNESS: FULL BLACK-OUT, BLACK DUPLEX R |
| RS-3 | DESCRIPTION: DUEL MANUAL BLACK-OUT/FABRI MNF: SWF CONTRACT FABRIC COLOR: PEARL GRAY, SHEARWEAVE 236 OPENNESS: 10% OPENNESS: FULL BLACK-OUT, BLACK DUPLEX R |
| RB-1 | DESCRIPTION: 4" MNML BASE MNF: JOHNSONITE SIZE: 4" HIGH STRAIGHT BASE, COLOR: 63 BURN |
| GB-1 | DISC: 1/2" GYPSUMBOARC COLOR: PT-2 |
| WD-1 | SPECIES: RED OAK CUT: PLAIN-SLICED VENEER MATCH: SLIF-MATCHEC FINISH: MATCH VT INDUSTRIES CHOCOLATE, CH15 LOOCATION: ALL INTERIOR DOORS |
| WD-2 | SPECIES: WHITE MAPLE CUT: PLAIN-SLICED VENEER FINISH: CLEAR SATIN LOOCATION: CEILING AND WALLS |

| Keynote Number | Description |
|-------------------|---|
| | |
| 01 | PROVIDE CORNER GUARD THIS LOCATION, SEE SPECS. |
| 02 | COMBINATION OF CPT-3 AND CPT-4 THIS AREA, SEE SHEET A-502 FOR PATTERN LAYOUT. |
| 03 | COMBINATION OF CPT-5, CPT-6, CPT-7 AND CPT-8 THIS AREA. |
| 04 | COMBINATION OF CPT-5, CPT-10 AND CPT-13 THIS AREA. |

| ROOM SCHEDULE | | |
|---------------|---------------|--|
| NUMBER | NAME | |
| | | |
| 500 | VESTIBULE | |
| 501 | CORRIDOR | |
| 502 | ELEC./IT | |
| 503 | JAN. CL. | |
| 504 | WOMEN | |
| 505 | MEN | |
| 506 | STORAGE | |
| 507 | ADULTS | |
| 508 | MECH / ELEC | |
| 509 | STORAGE | |
| 510 | CORRIDOR | |
| 511 | CORRIDOR | |
| 512 | WORK ROOM | |
| 513 | OFFICE | |
| 514 | BREAK ROOM | |
| 515 | STUDY | |
| 516 | STUDY | |
| 517 | CIRCULATION | |
| 518 | TEEN AREA | |
| 519 | CHILDREN AREA | |
| 520 | STORAGE | |
| 521 | MEETING ROOM | |
| 522 | COATS | |
| 523 | CIRCULATION | |



EXTERIOR FINISH LEGEND PN-1 COLORA PN-2 COLORE PN-3 COLORC



1 ENLARGED ELEVATION - WEST A-602 1/4" = 1'-0"

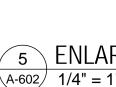
4 ENLARGED ELEVATION - NORTH A-602 1/4" = 1'-0"

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6 ENLARGED ELEVATION - SOUTH A-602 1/4" = 1'-0"

2 ENLARGED ELEVATION - WEST A-602 1/4" = 1'-0"

3 ENLARGED ELEVATION - EAST A-602 1/4" = 1'-0"

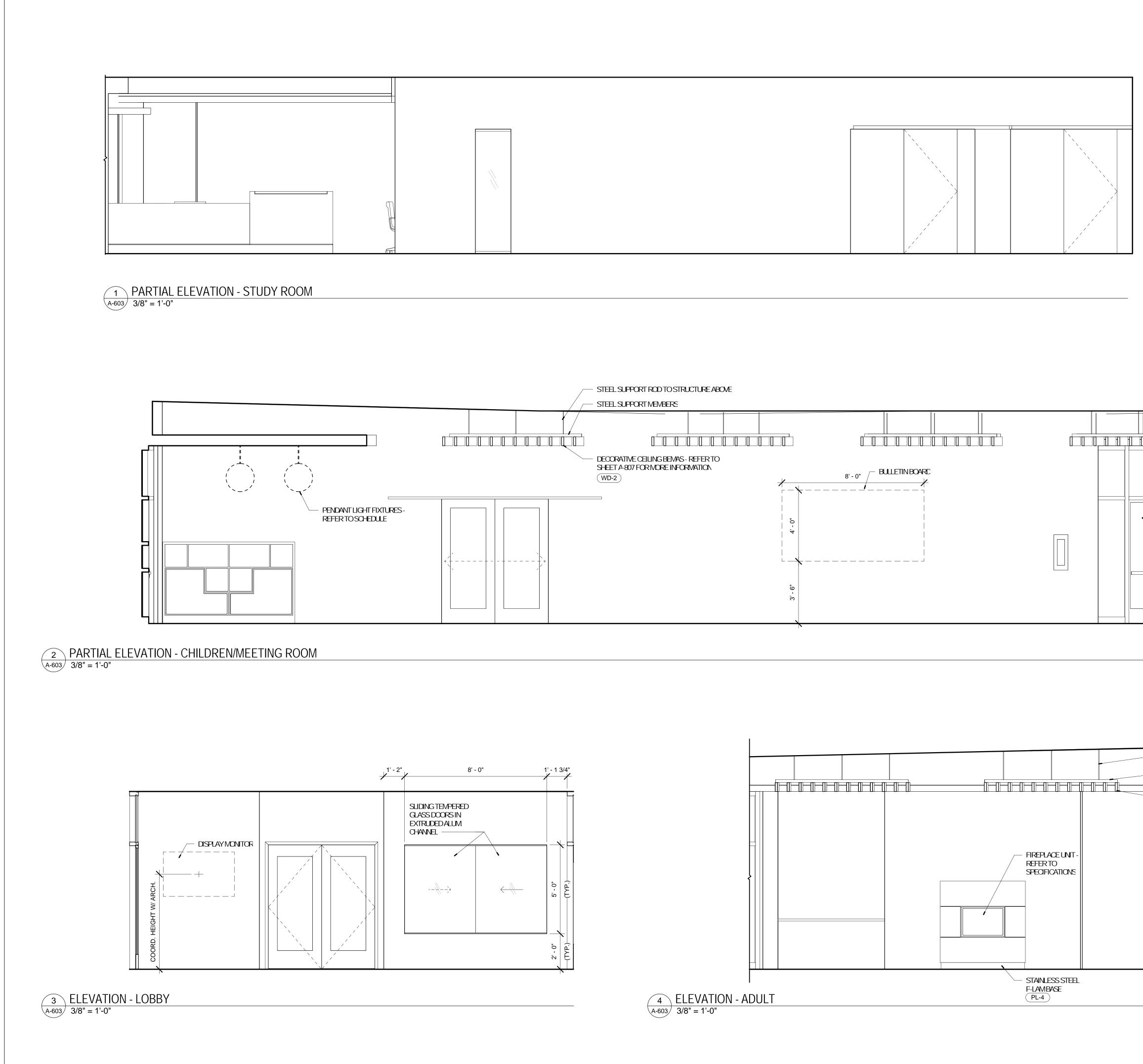


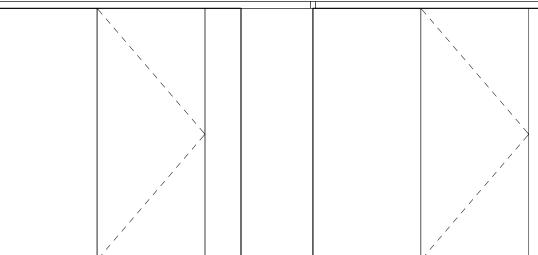
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5 ENLARGED ELEVATION - EAST A-602 1/4" = 1'-0"



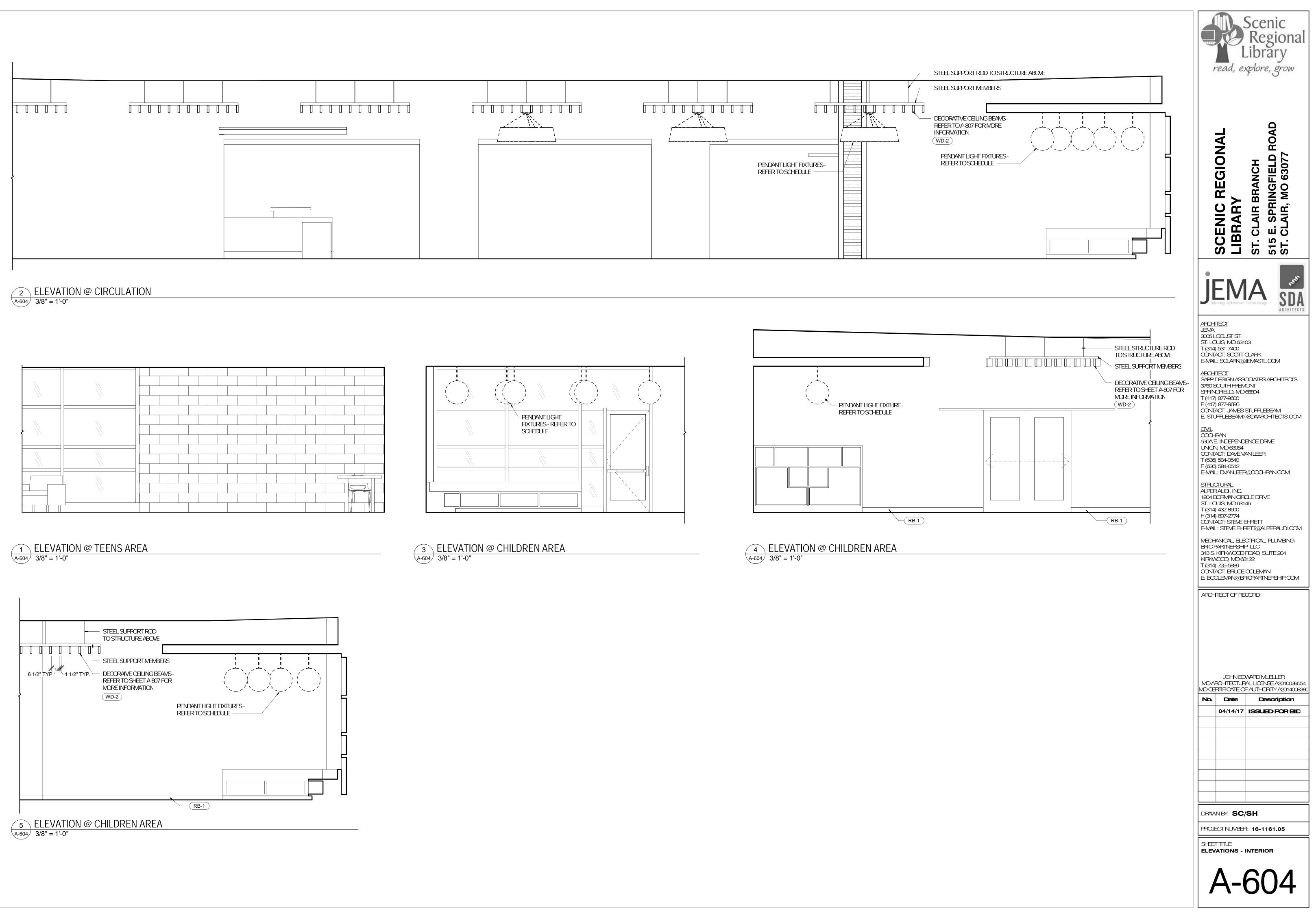


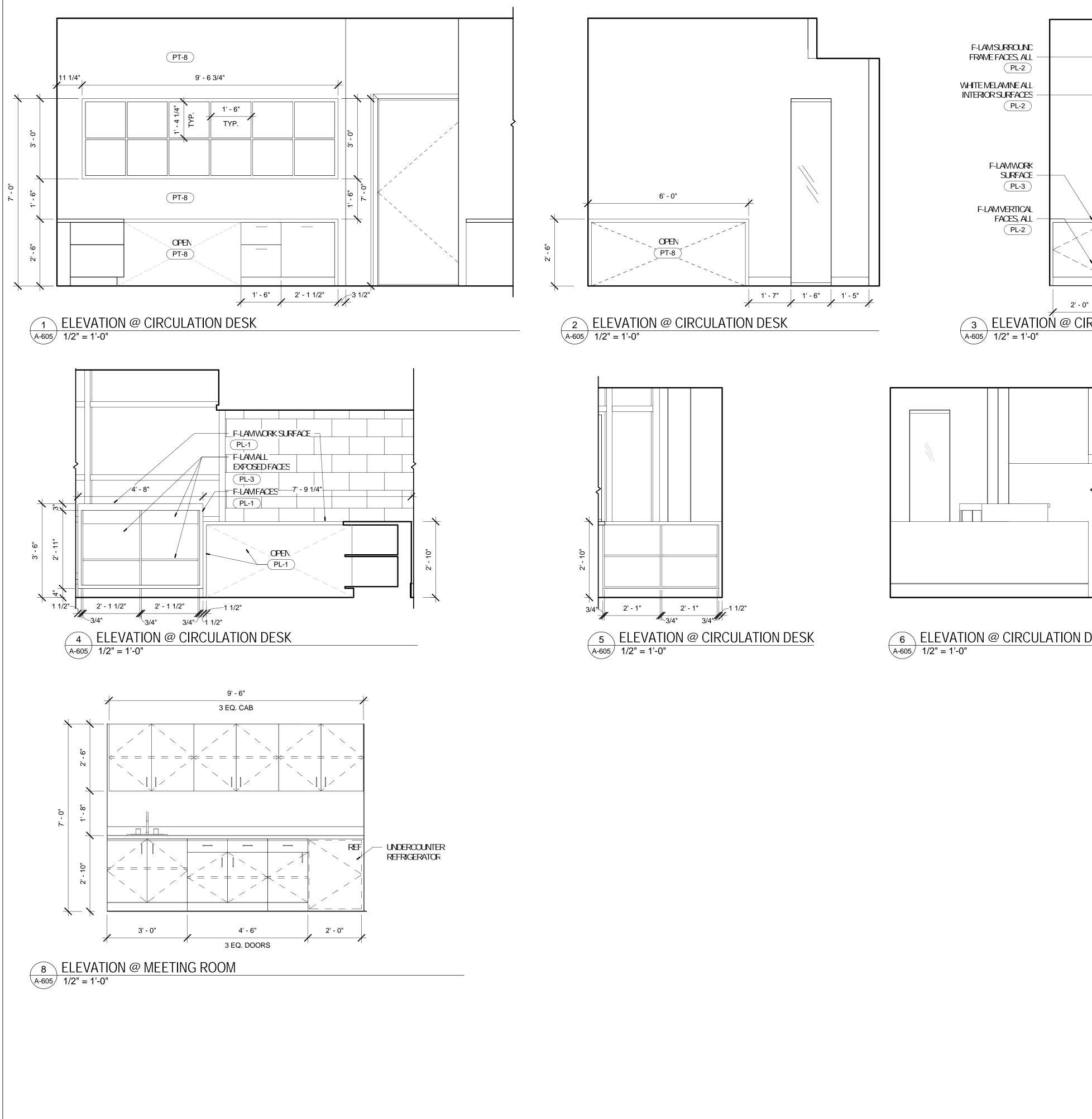


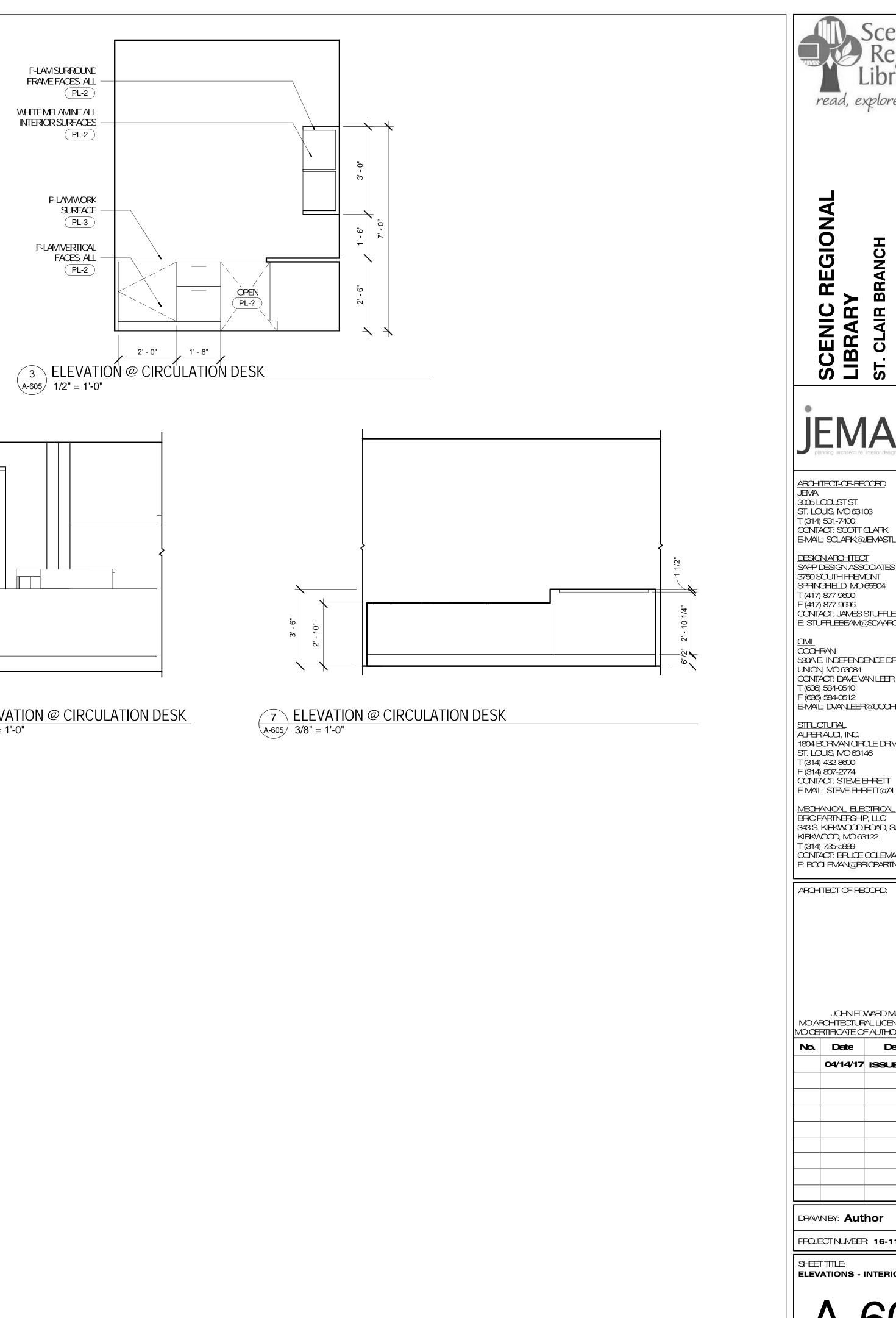
| EGIONAL | ANCH | 5 E. SPRINGFIELD ROAD ⁻ . CLAIR, MO 63077 |
|--|----------------|---|
| SCENIC REGIONAL LIBRARY | | 515 E. SPRINGFIELD ST. CLAIR, MO 63077 |
| | | NARAN SDA AR CHITECT |
| ST. LOUS, MO631 T (314) 531-7400 CONTACT: SOOTT E-MAL: SOLARK@ ARCHTECT SAPP DESIGNASS 3750 SOUTH FREM SPRINGFIELD, MO T (417) 877-9600 F (636) 584-0512 E-MAL: DVANLEEF STRUCTURAL ALPER AUDI, INC. 1804 BORMANOR ST. LOUIS, MO631 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE EF E-MAL: STEVE EFF MECHANCAL, ELE BRIC PARTINERSHI 343 S. KIRKWOOD KIRKWOOD, MO63 T (314) 725-5889 CONTACT: BRUCE E BOOLEMAN@BF | | FOHTECTS |
| JOHNED MOARCHTECTUF MOCERTIFICATE O No. Dete 04/14/17 | Fauthof Des | EA20100395 |
| DRAWN BY: SC | /SH | |

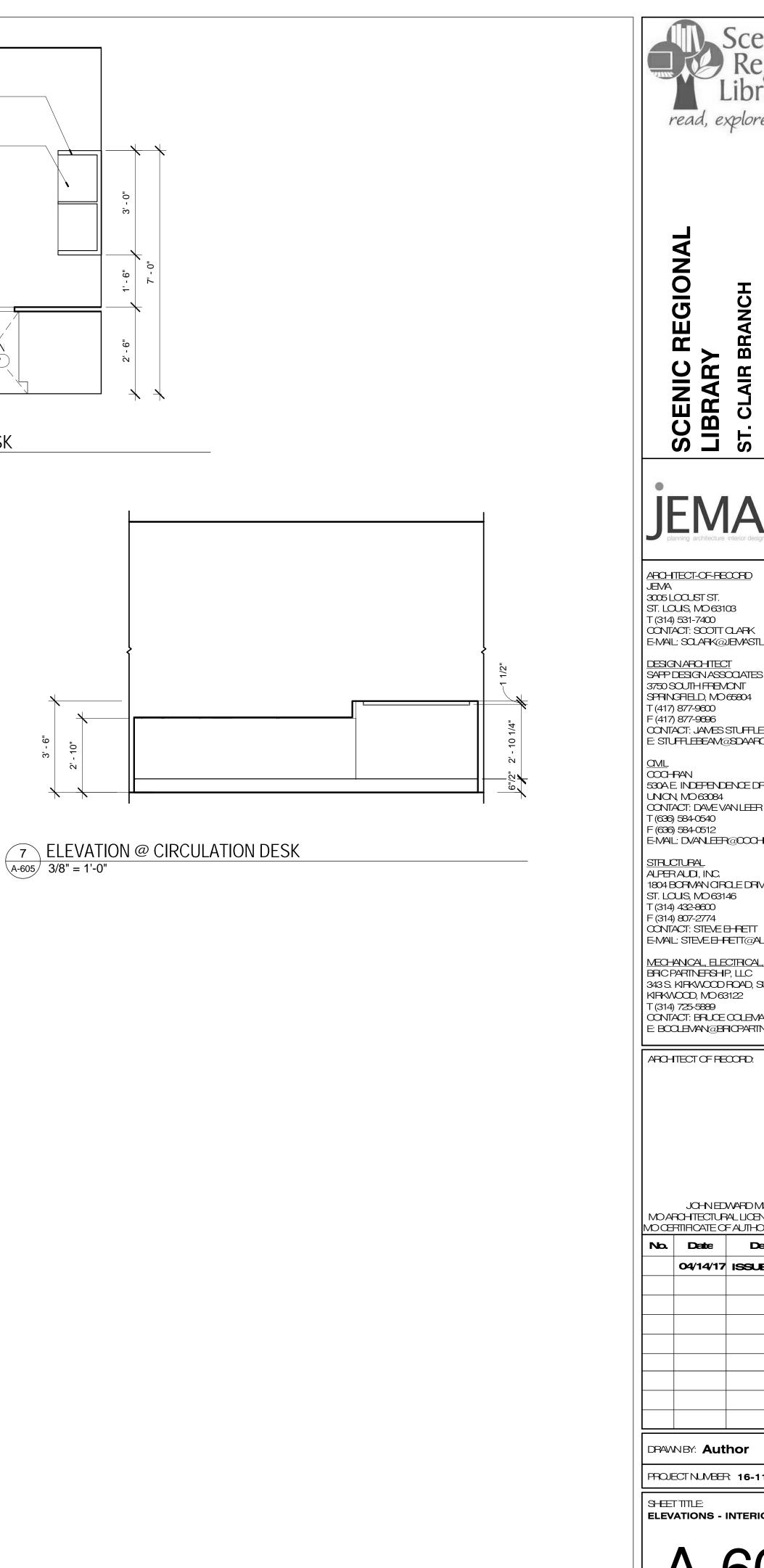
- STEEL SUPPORT ROD TO STRUCTURE ABOVE - STEEL SUPPORT MEMBERS

- DECORATIVE CEILING BEAVS -REFER TO SHEET A-807 FOR MORE INFORMATION (WD-2)



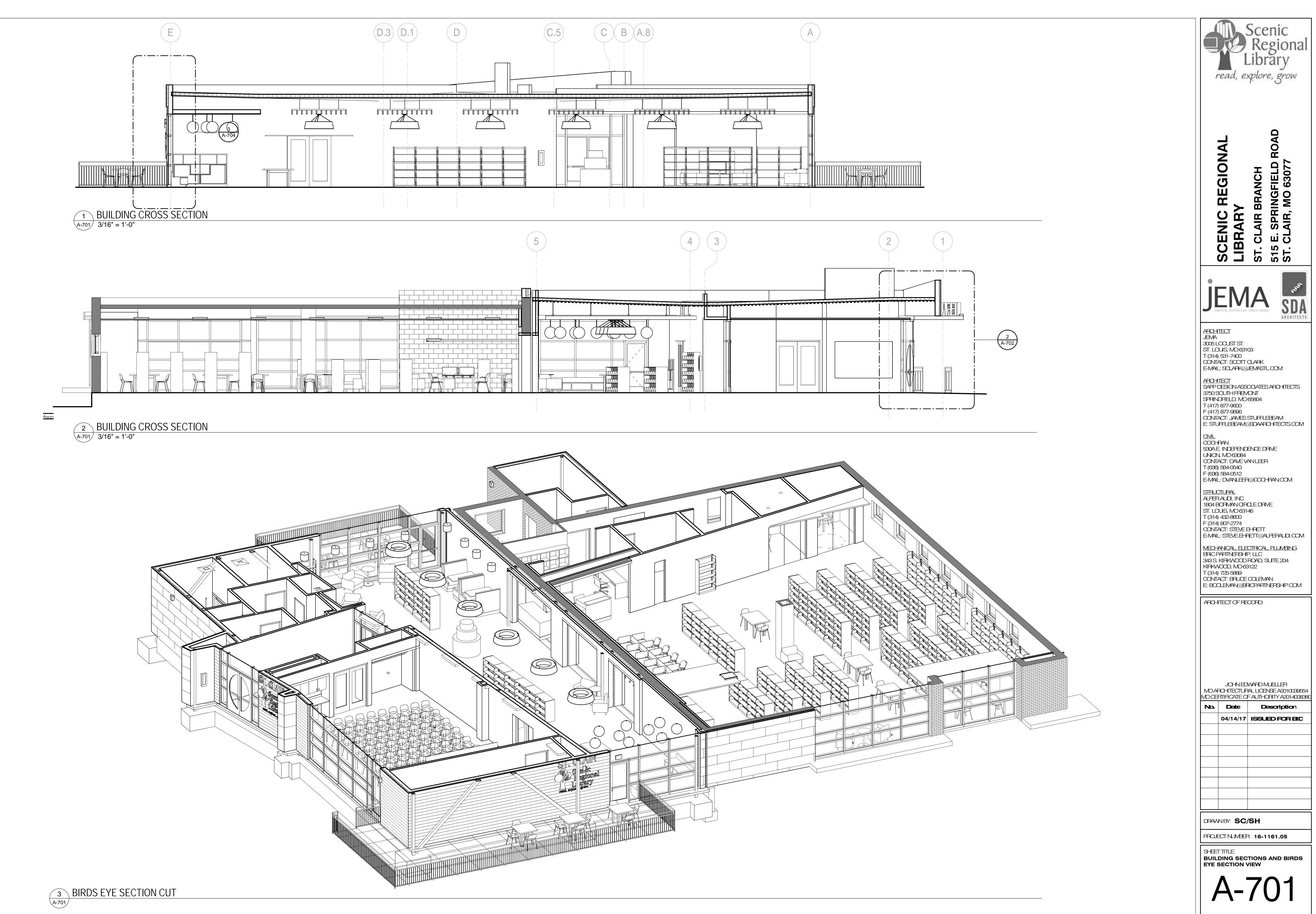


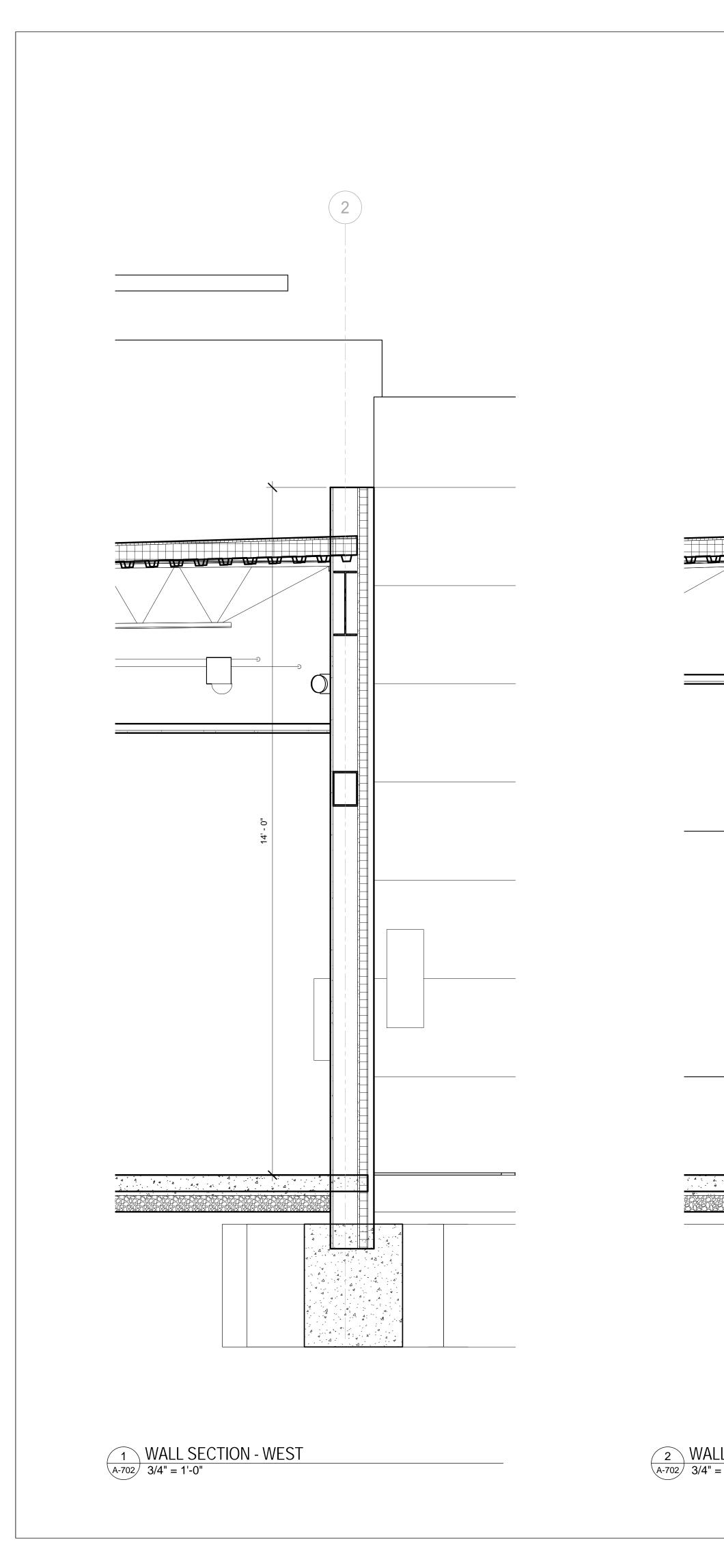


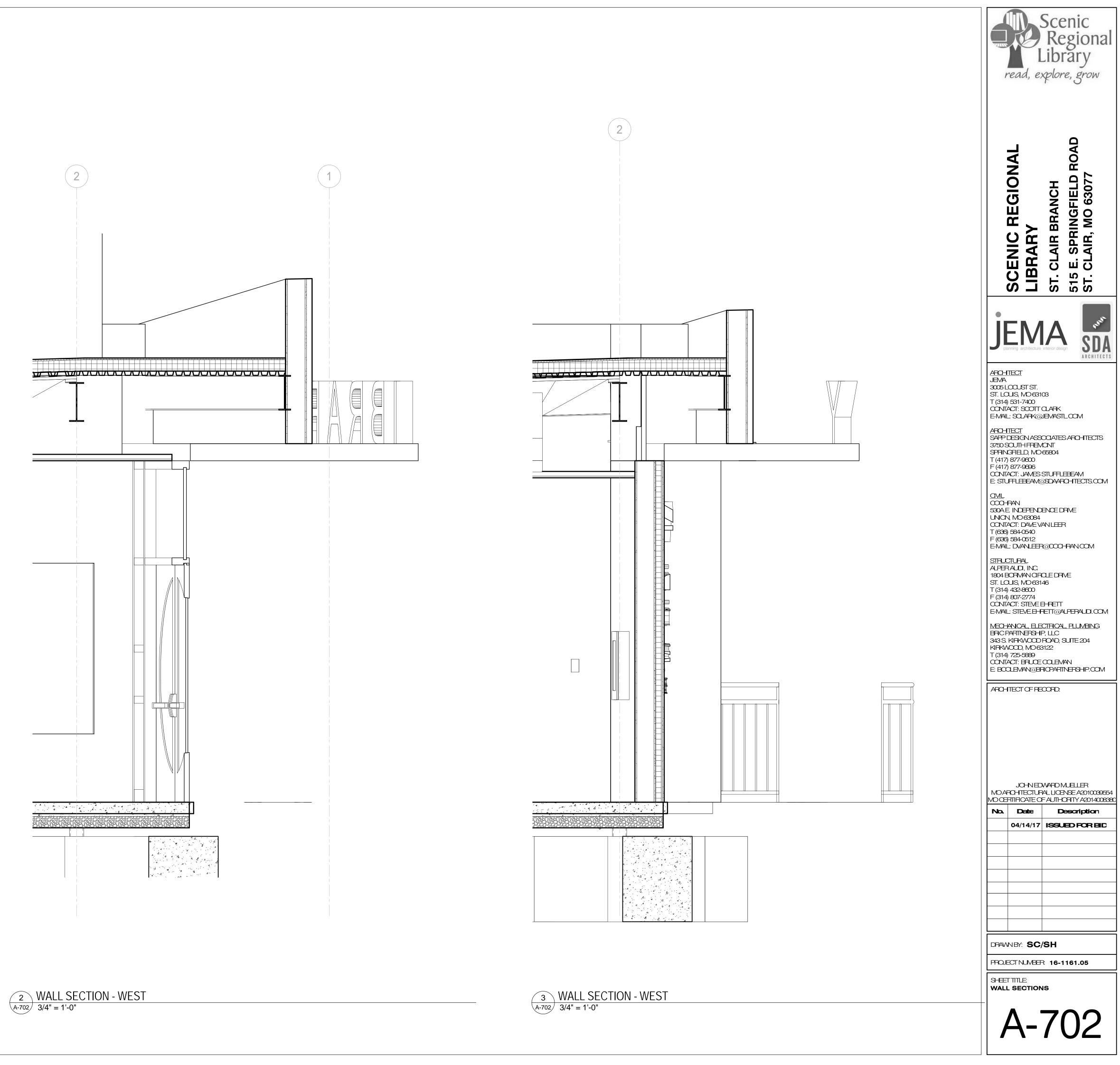


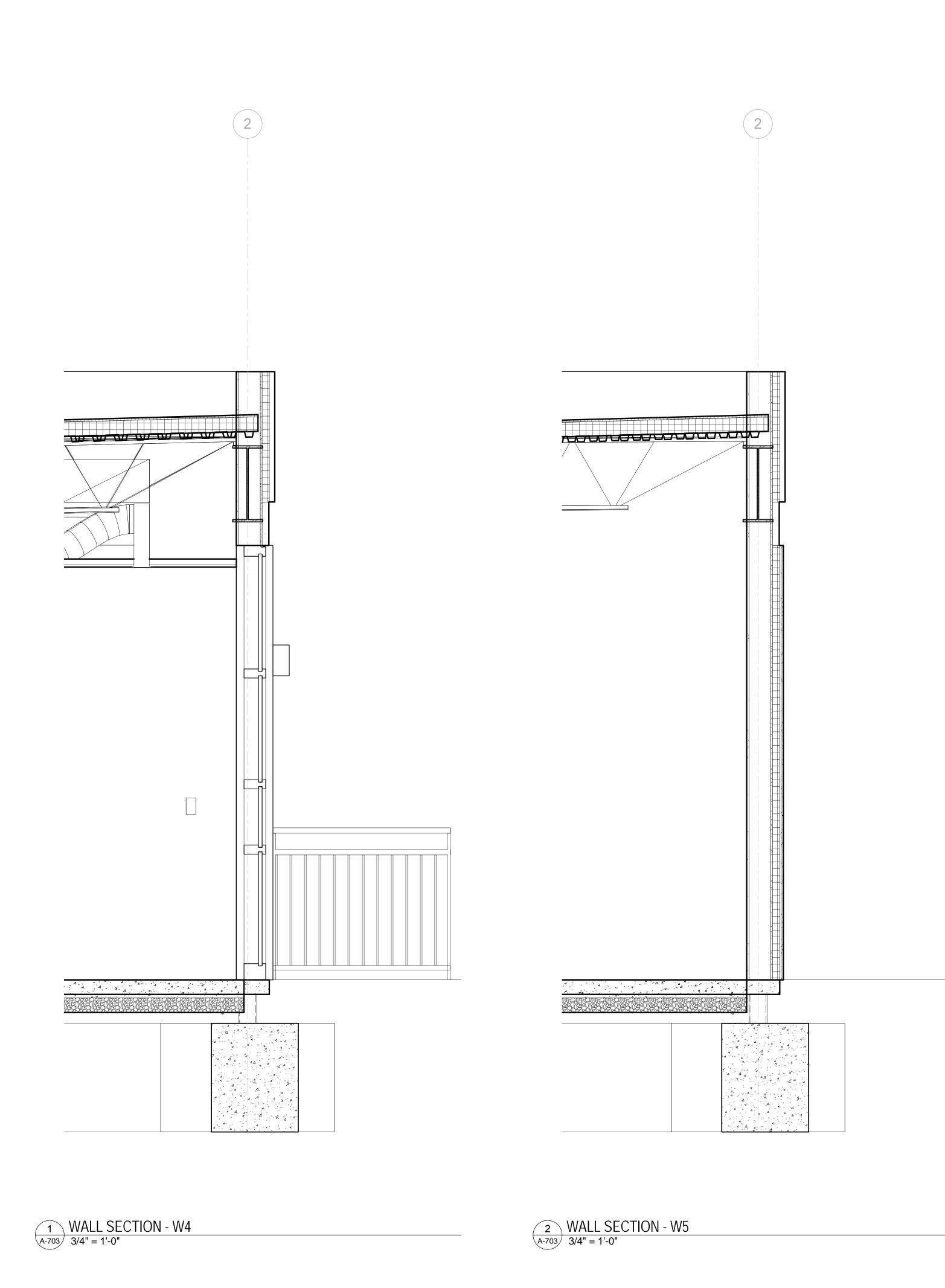
6 ELEVATION @ CIRCULATION DESK A-605 1/2" = 1'-0"

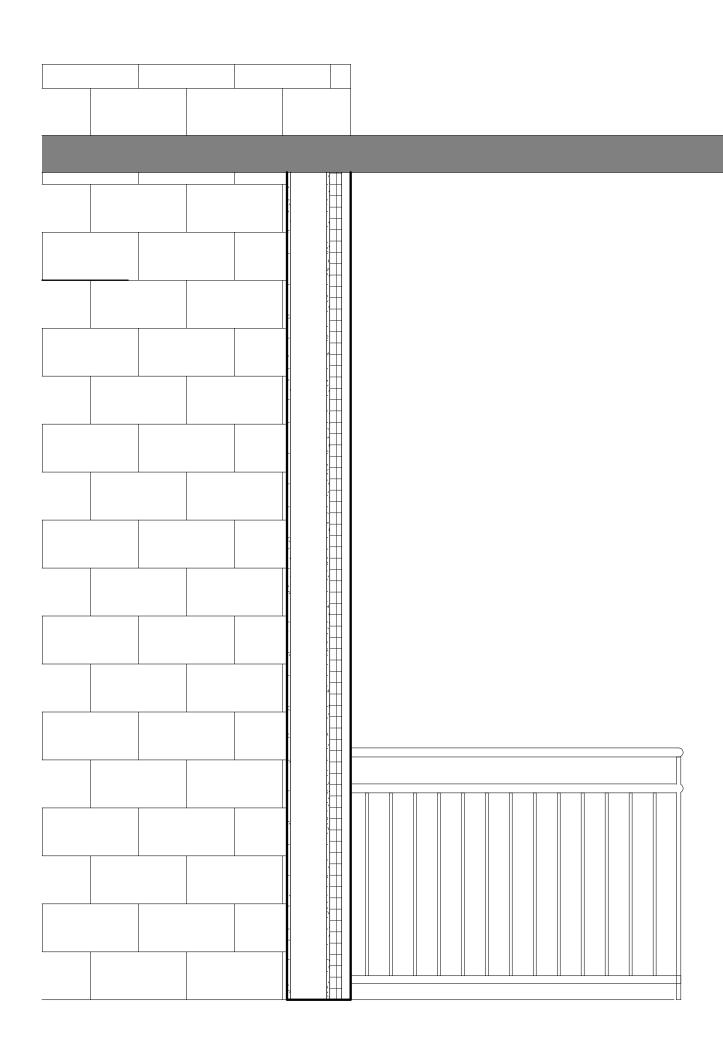
Scenic Regional Library read, explore, grow **A**D 0 č 5 E. SPRINGFIELD I . CLAIR, MO 63077 ST. (515 | ST. (JEMA **SDA** ARCHITECTS ARCHITECT-OF-RECORD JEMA 3005 LOOUST ST. ST. LOUS, MO 63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAIL: SCLARK@JEVASTL.COM DESIGNAROHTECT SAPP DESIGNASSOCIATES ARCHITECTS 3750 SOUTH FREMONT SPRINGFIELD, MO 65804 T (417) 877-9600 F (417) 877-9696 CONTACT: JAVES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHITECTS.COM <u>UVIL</u> COOHRAN 530AE INDEPENDENCE DRIVE UNICN, MO 63084 CONTACT: DAVE VAN LEER T (636) 584-0540 E (636) 584-0540 F (636) 584-0512 E-MAIL: DVANLEER@0000-FAN.000M 1804 BORMAN ORALE DRIVE E-MAIL: STEVE E-RETT@ALPERAUD.COM MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTNERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 CONTACT: BRUCE COLEMAN E: BOOLEVAN@BRIOPARINERSHP.COM JOHN EDWARD MJELLER MOARCHITECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380 No. Date Description 04/14/17 ISSUED FOR BID PROJECT NUMBER: 16-1161.05 **ELEVATIONS - INTERIOR**



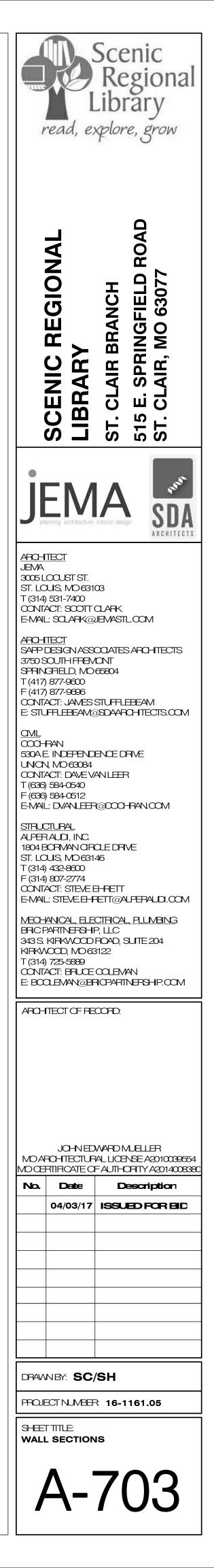


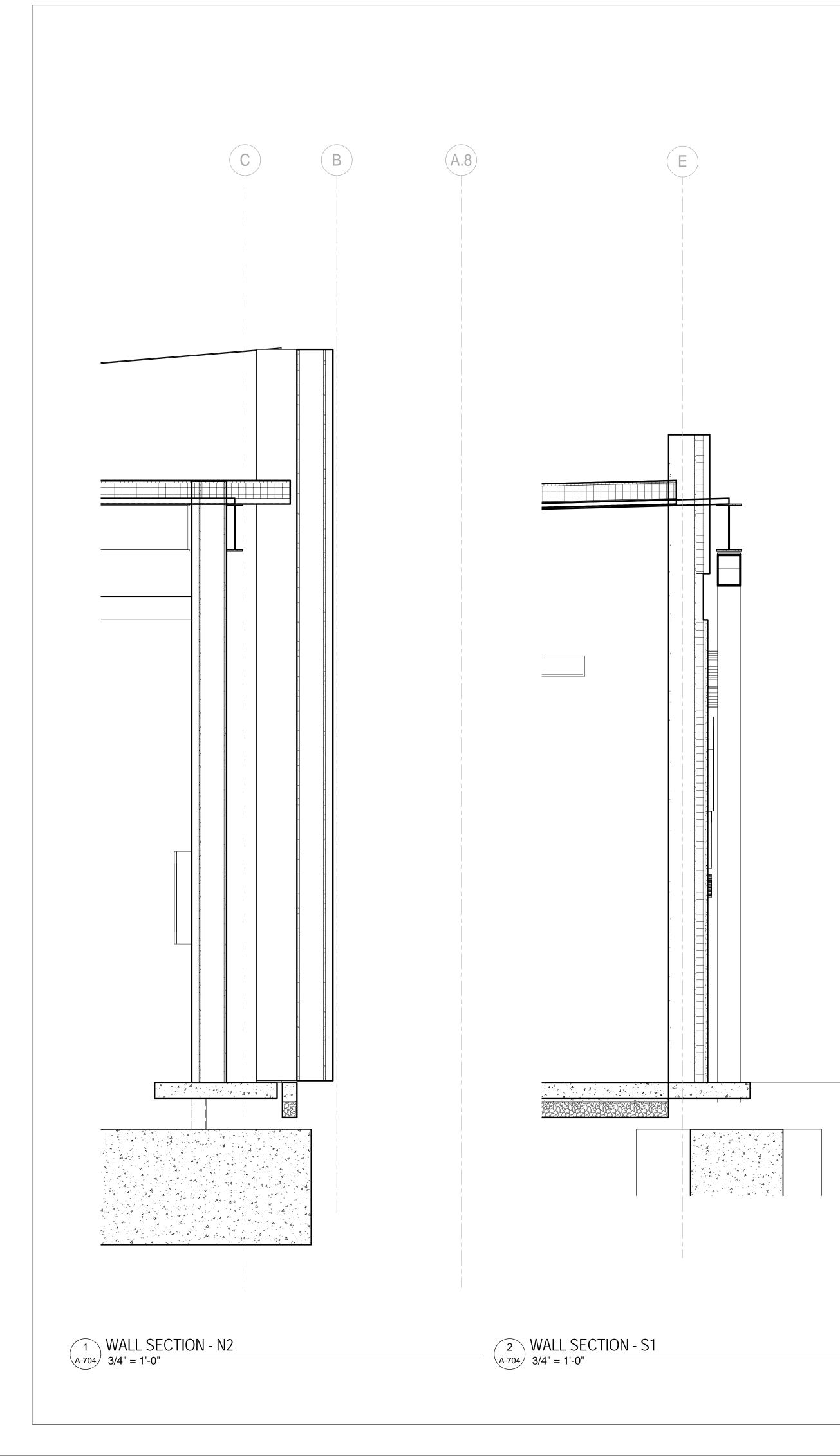




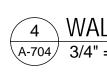


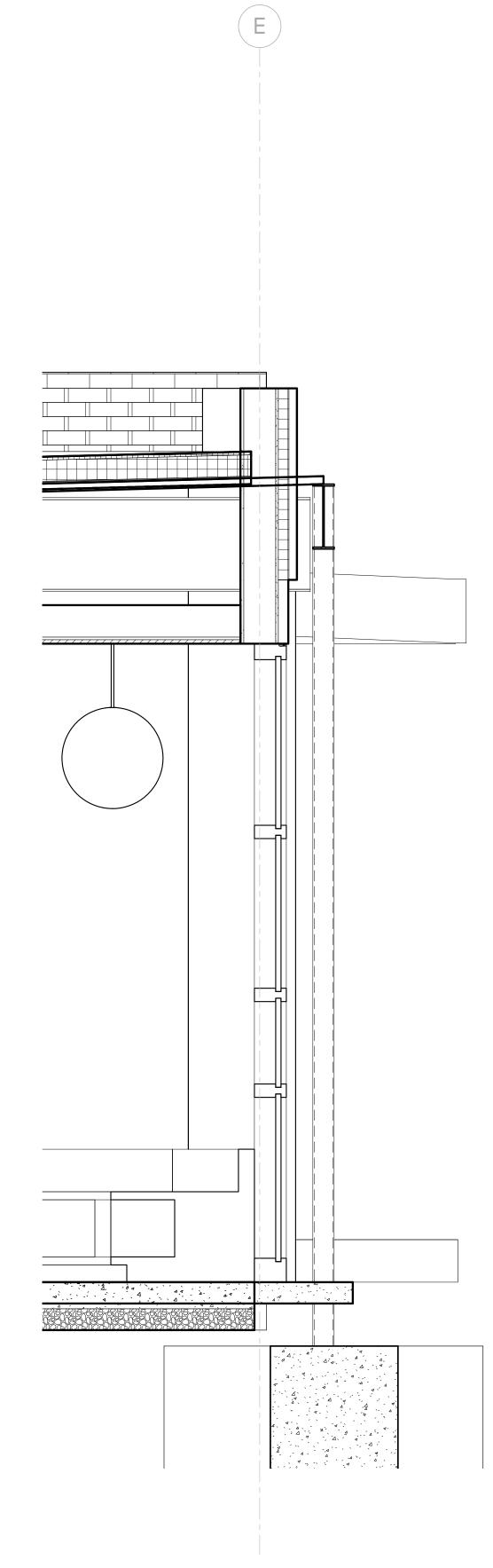
3 WALL SECTION - N1 A-703 3/4" = 1'-0"



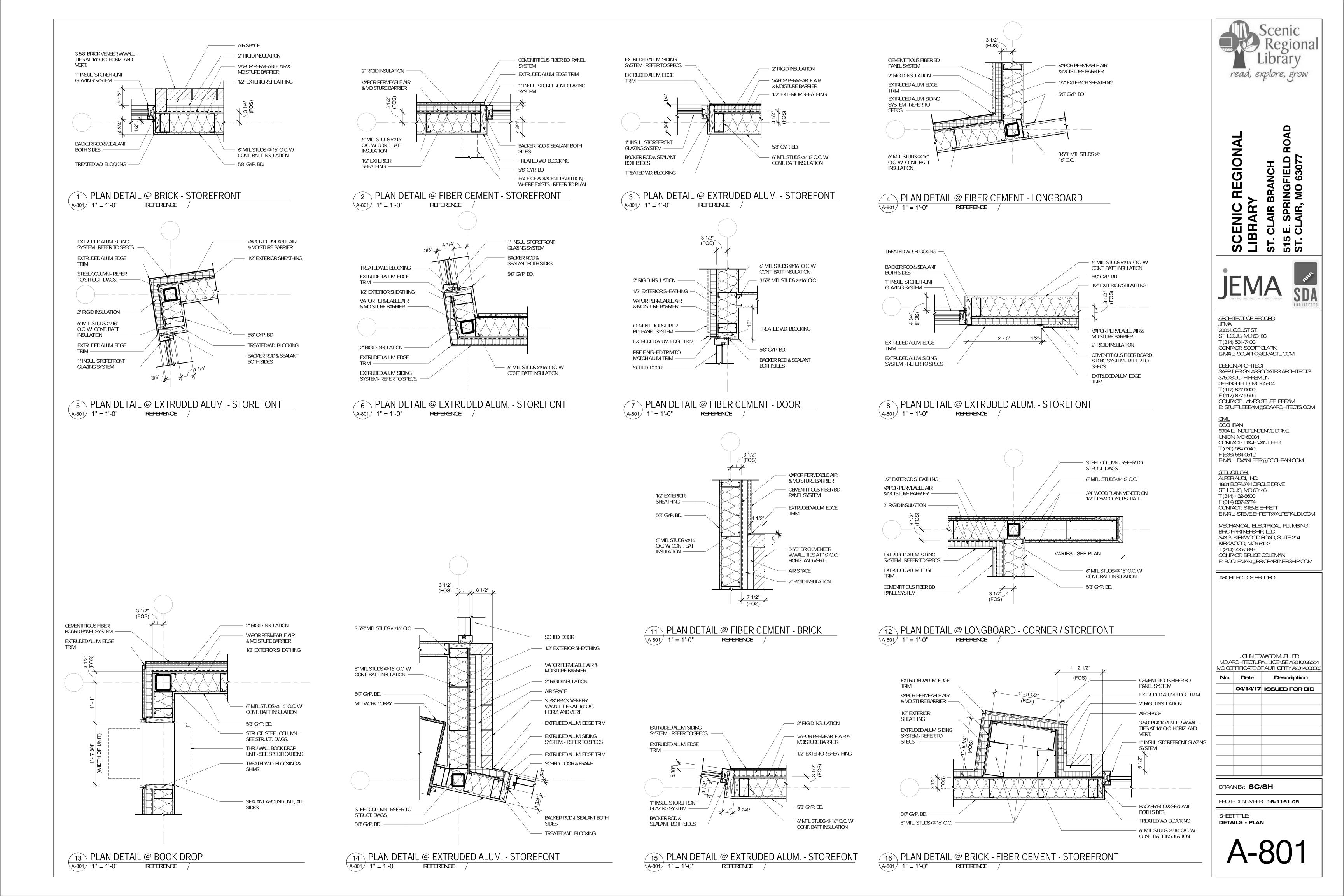


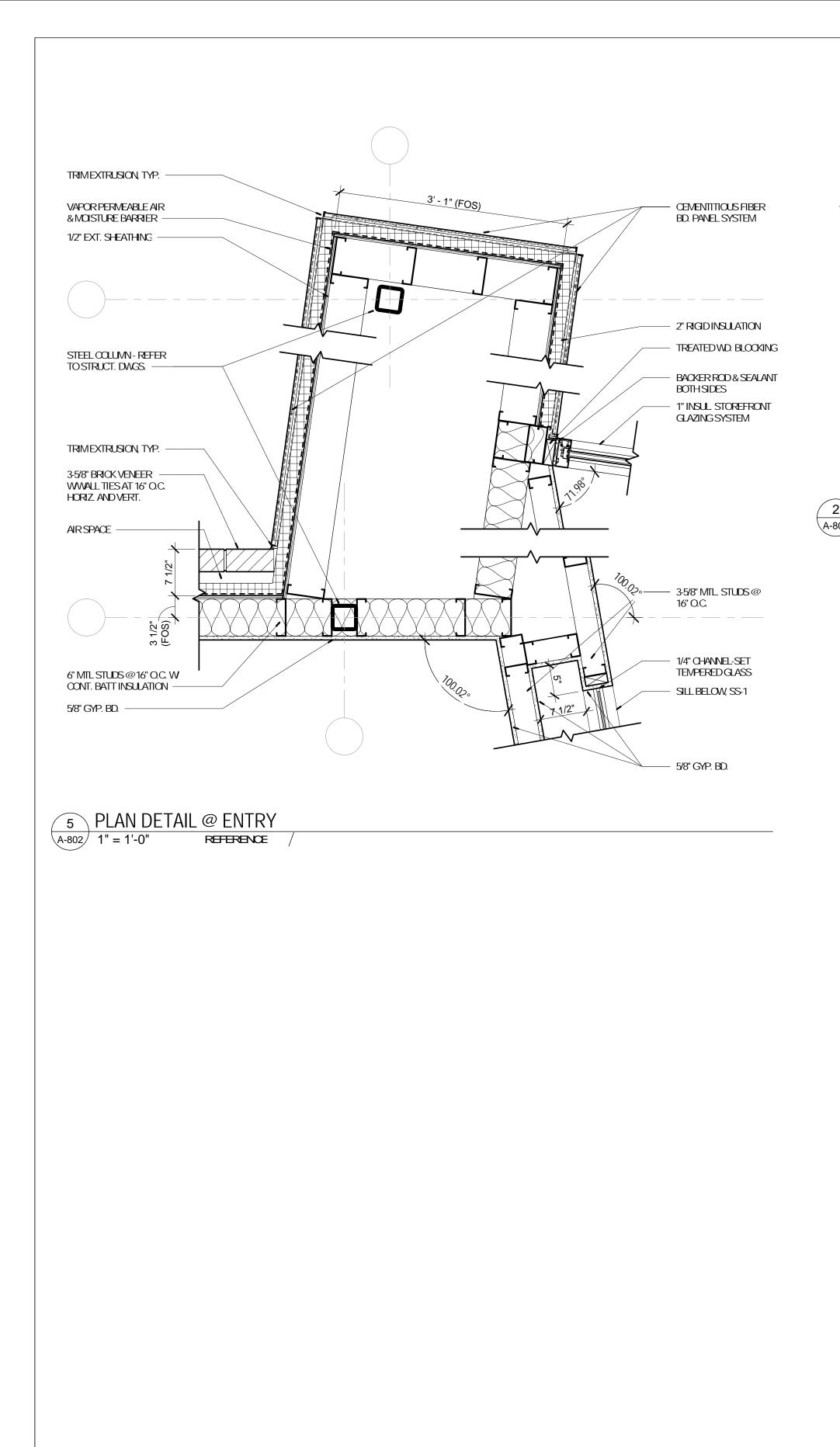


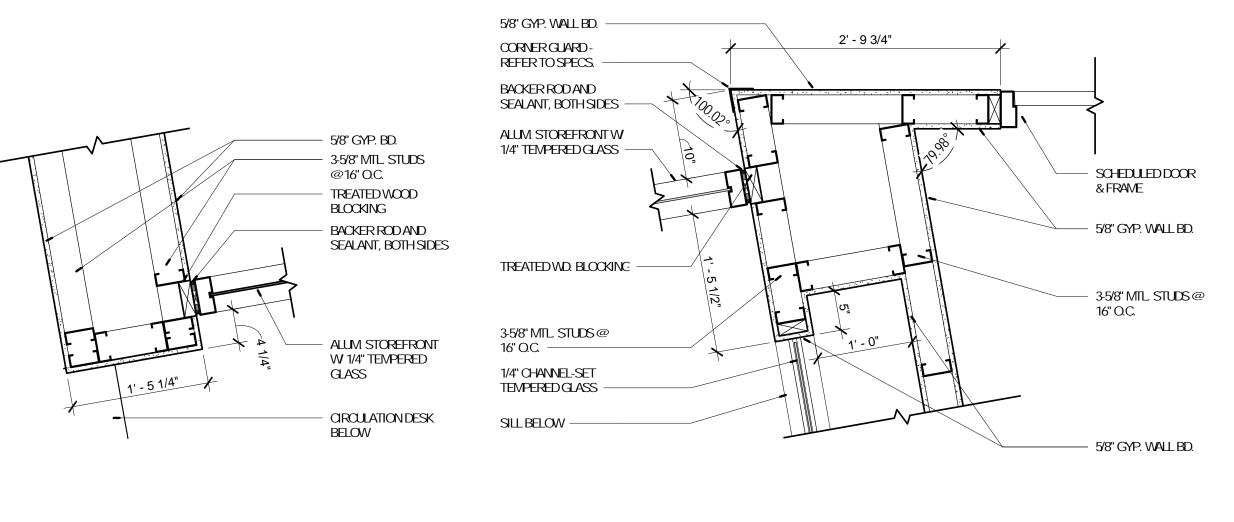




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| | <u>CML</u> CCO-FRAN 530A E INDEPENDENCE DRVE UNON, MO 63084 CONTACT: DAVE VAN LEER T (636) 584-0540 F (636) 584-0512 E-MAL: DVAN LEER @CCO-FRAN COM <u>STRUCTURAL</u> ALPER AUD, INC. 1804 BORMAN OROLE DRVE ST. LOUS, MO 63146 |
| | T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE B-RETT E-MAL: STEVE B-RETT@ALPERALDI.COM MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTINERSHP, LLC 343 S. KIRKWCOD ROAD, SUITE 204 KIRKWCOD, MO 63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BOOLEMAN@BRICPARTINERSHP.COM |
| | JOHNEDWARD MUELLER MOARCHTECTURAL LICENSE A2010039554 |
| | MOCERTIFICATE OF AUTHORITY A2014008380 No. Date Description 04/14/17 ISSUED FOR BID Image: State of the state of |
| | |
| 4 WALL SECTION - S3 | DRAWN BY: SC/SH PROJECT NUMBER: 16-1161.05 SHEET TITLE: WALL SECTIONS |
| (4 A-704) WALL SECTION - S3 3/4" = 1'-0" | A-704 |



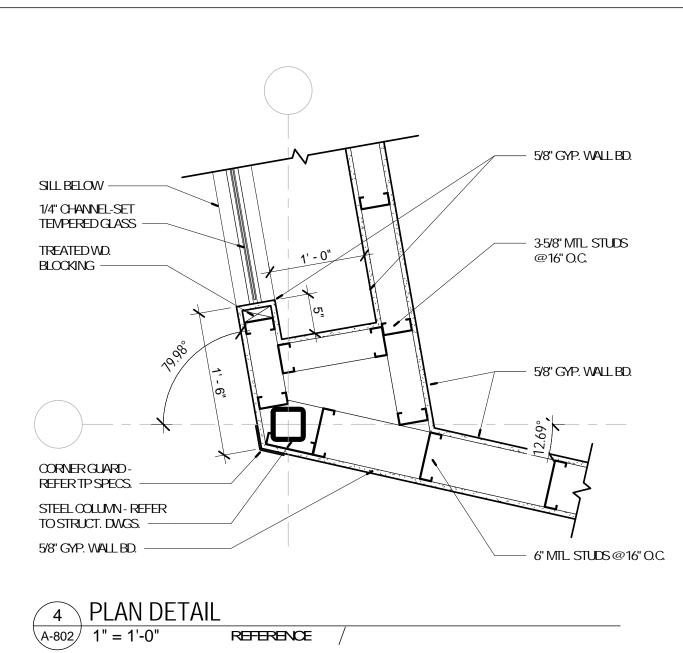




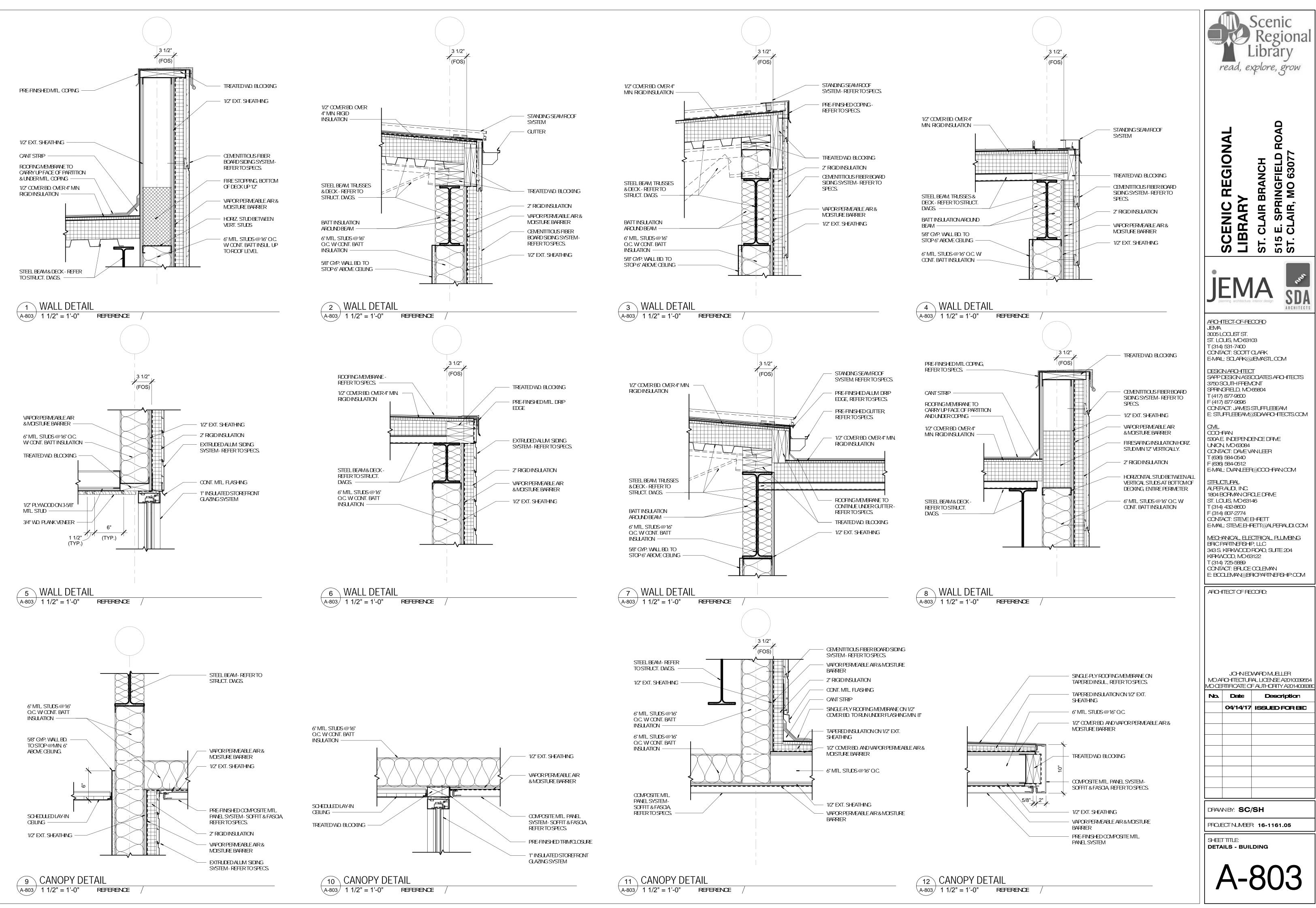
2 PLAN DETAIL

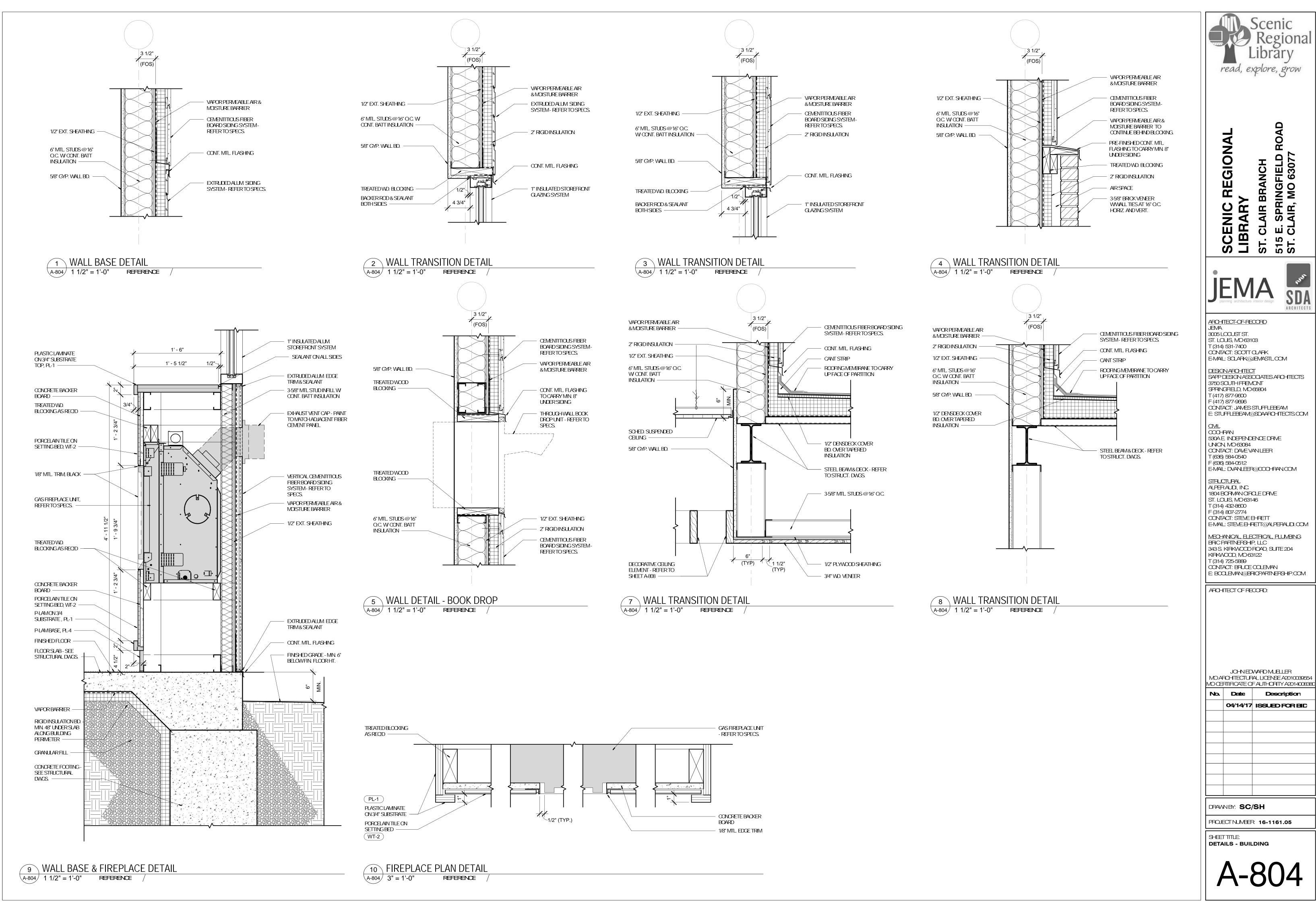
A-802 1" = 1'-0" REFERENCE /

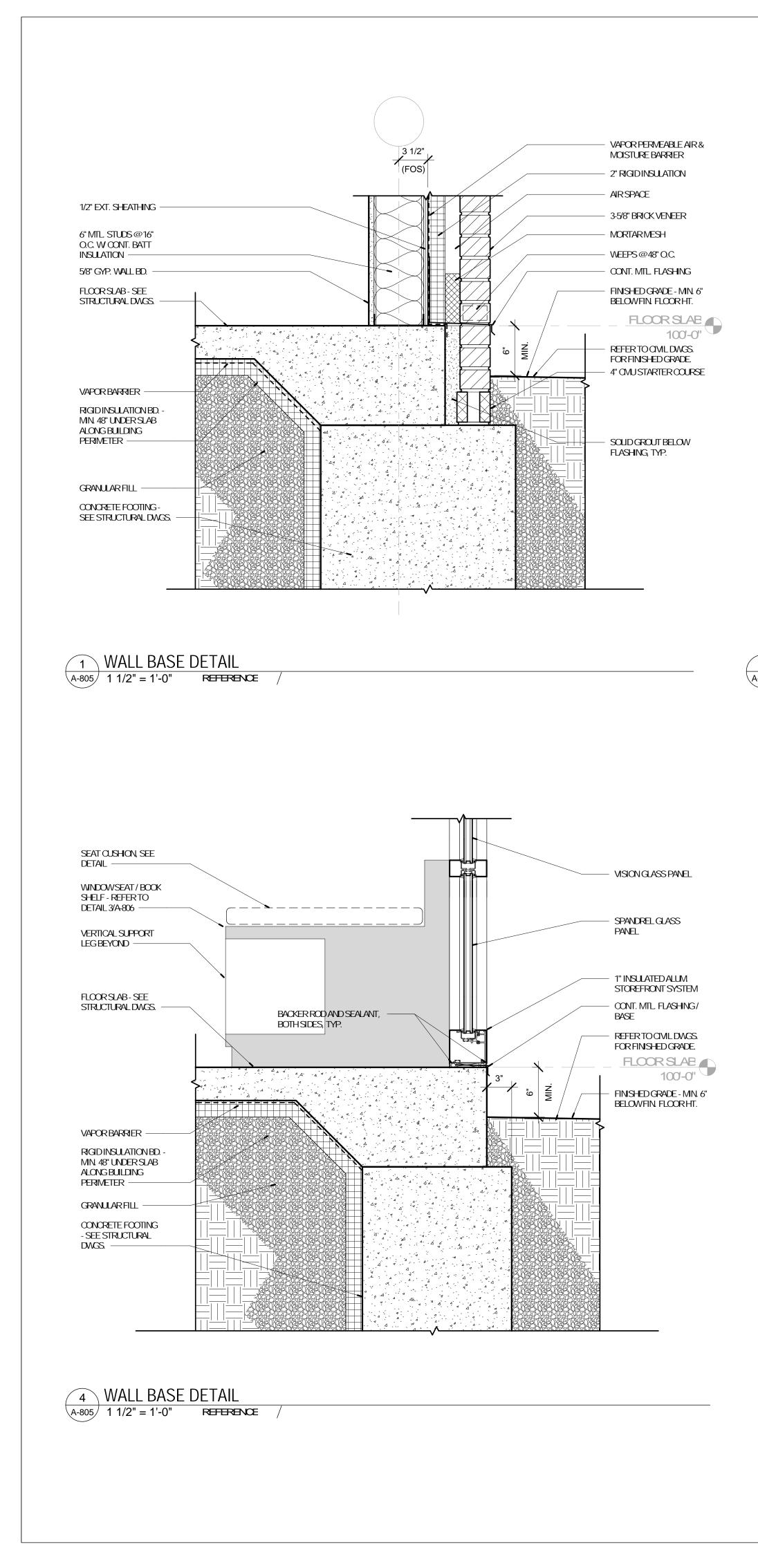
3 PLAN DETAIL A-802 1" = 1'-0" REFERENCE

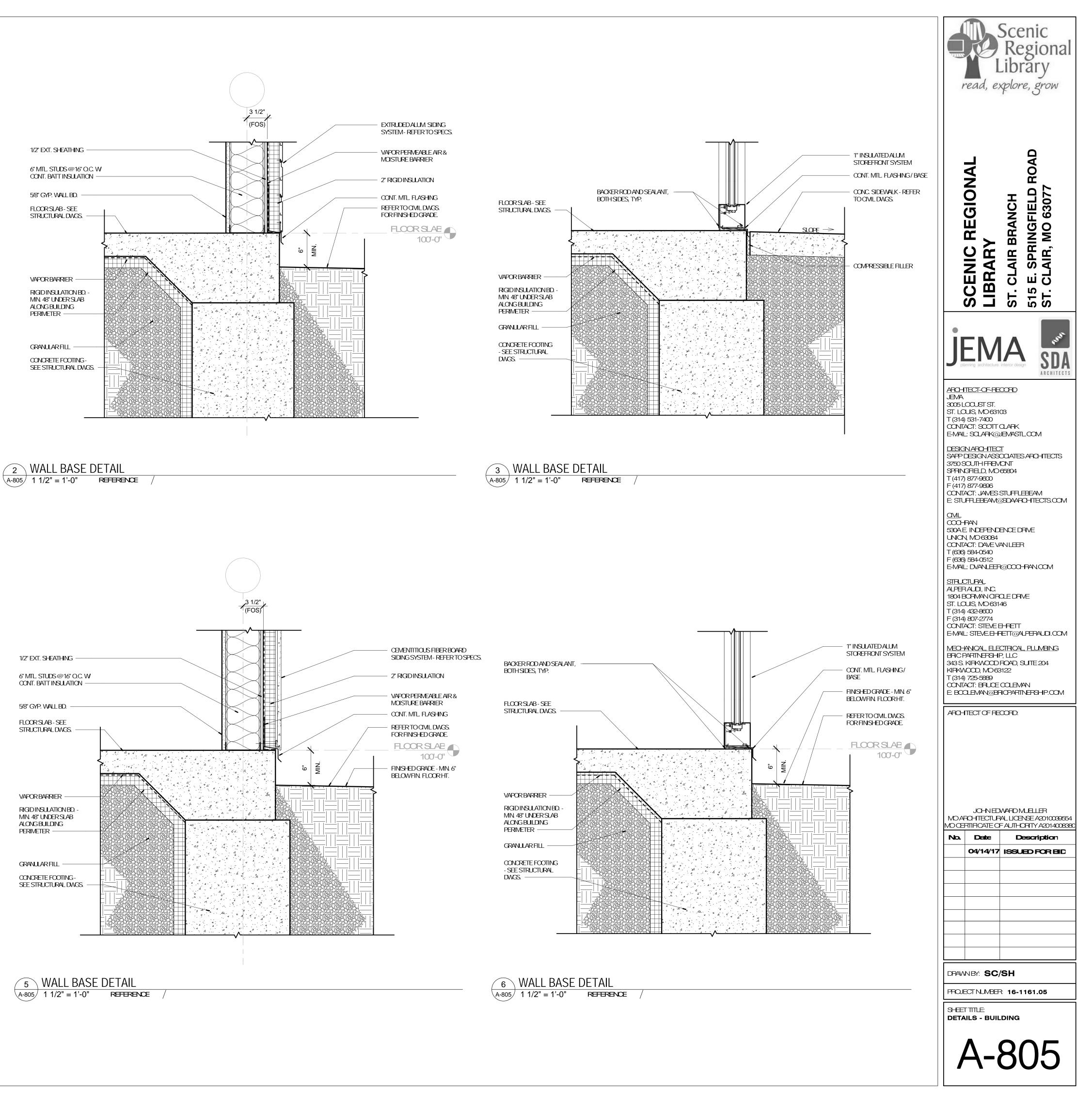


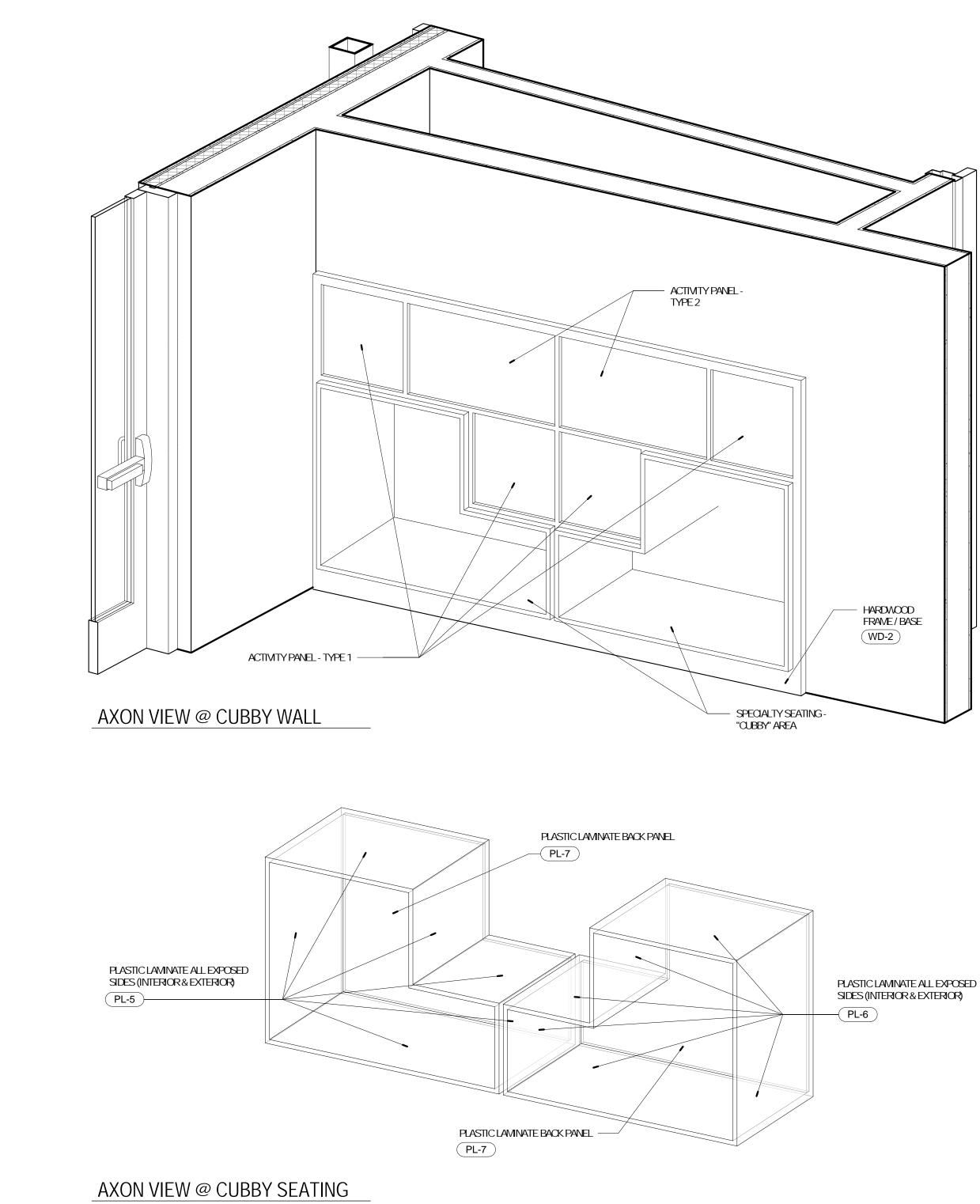
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| JOHNEDWARD MUELLER MOARCHTECTURAL LICENSE A2010039554 MOCERTIFICATE OF AUTHORITY A2014008380 No. Date Description 04/14/17 ISSUED FOR BID |
| DRAWN BY: SC/SH PROJECT NUMBER: 16-1161.05 SHEET TITLE: DETAILS - PLAN |
| A-802 |

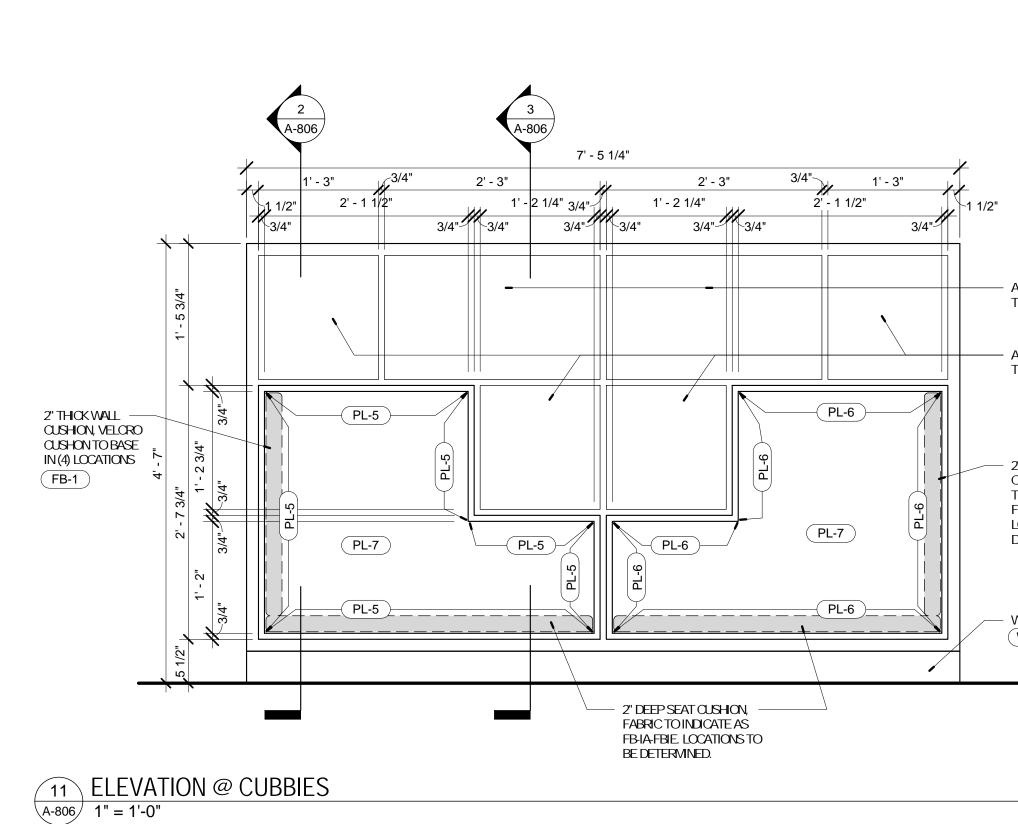


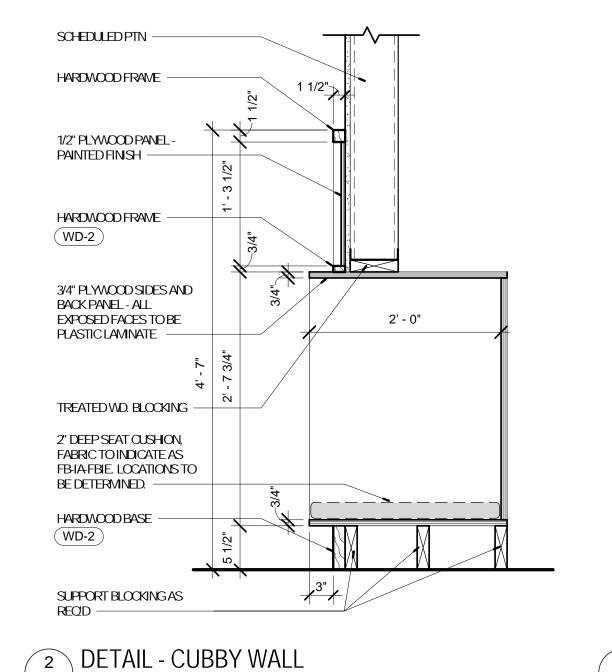






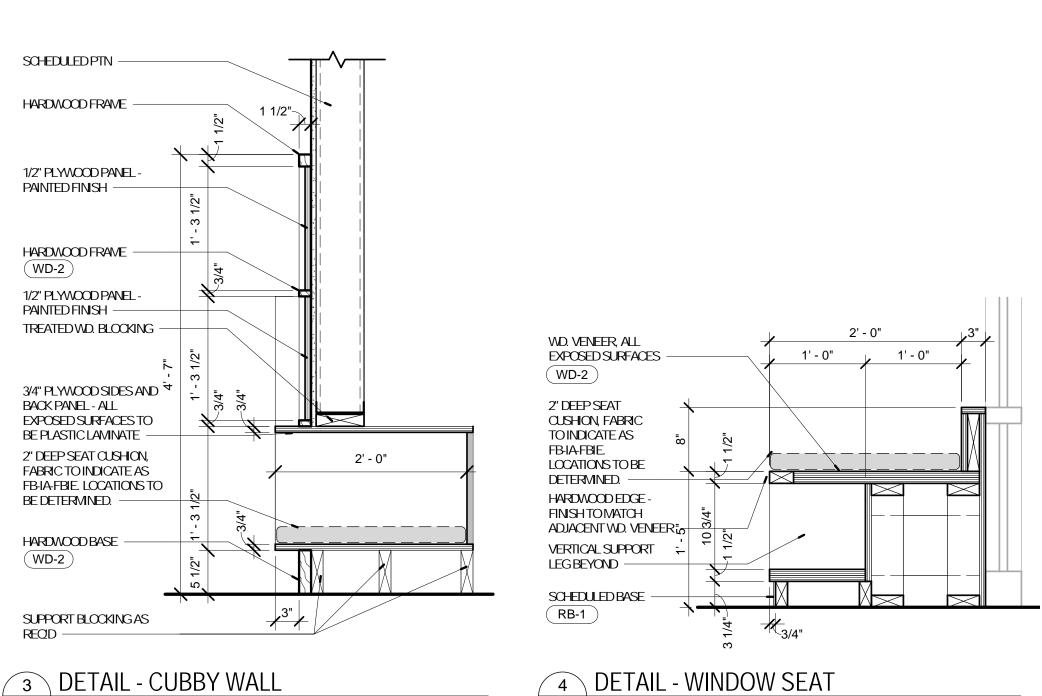






A-806 1" = 1'-0"

A-806 1" = 1'-0"



4 DETAIL - WINDOW SEAT A-806 1" = 1'-0"

ACTIVITY PANEL -TYPE 2

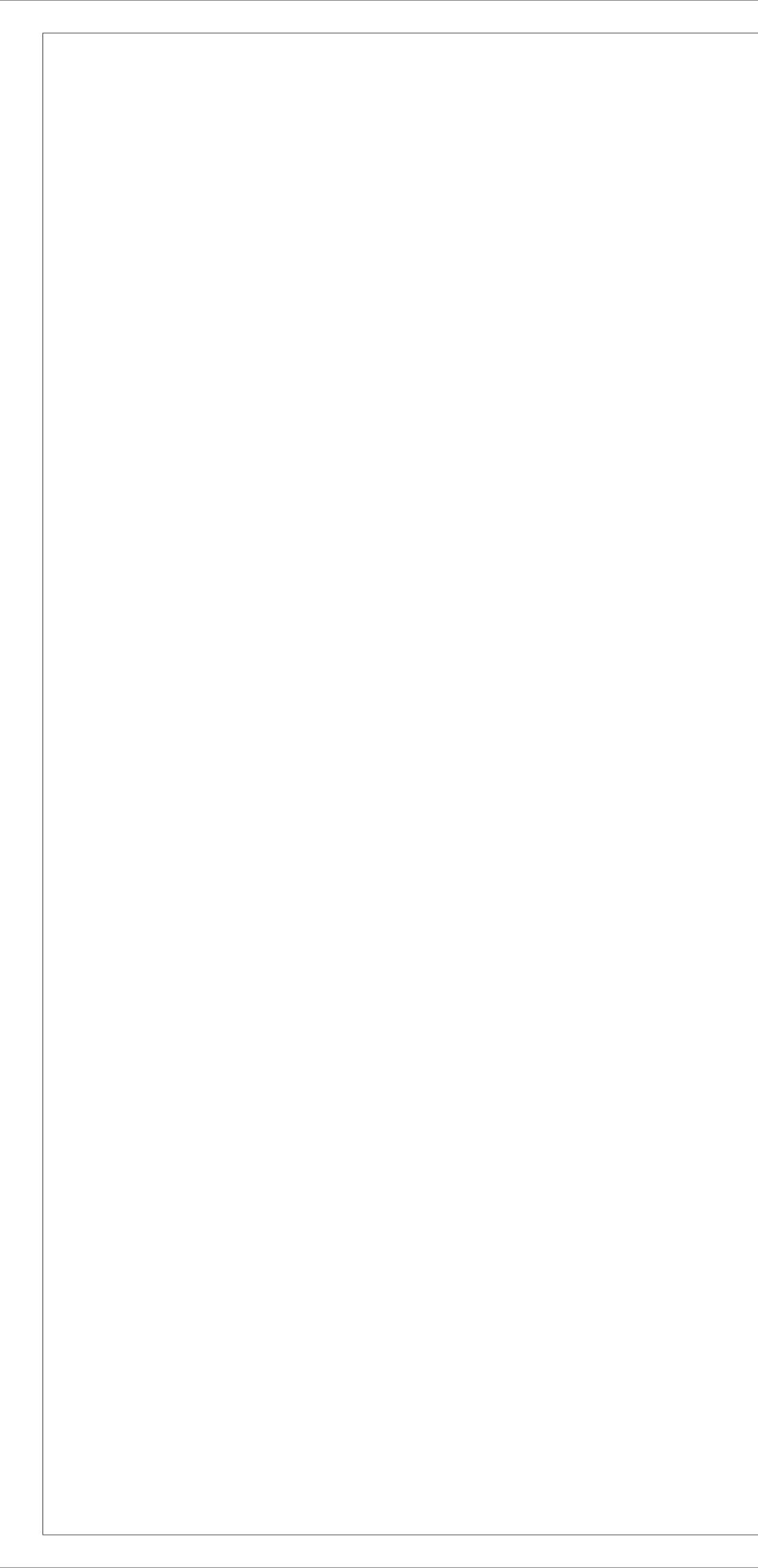
- ACTIVITY PANEL -TYPE1

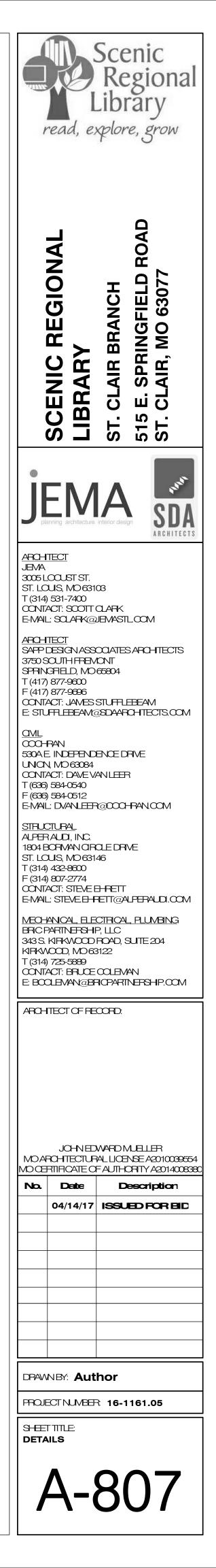
- 2" THICK WALL CUSHION, FABRIC TO INDICATE AS FB-IA-FBIE. LOCATIONS TO BE DETERMINED.

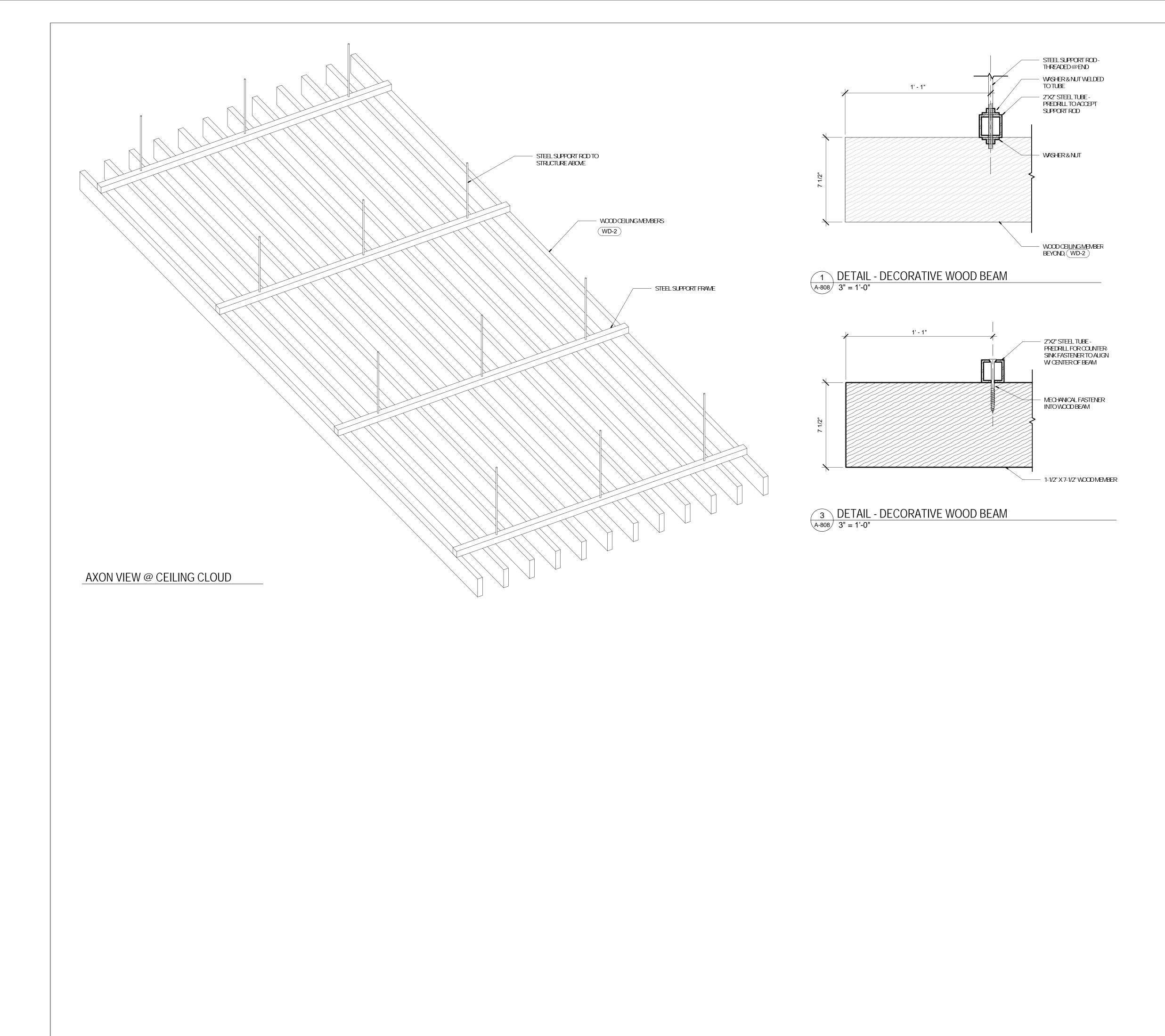
- WOOD BASE WD-2

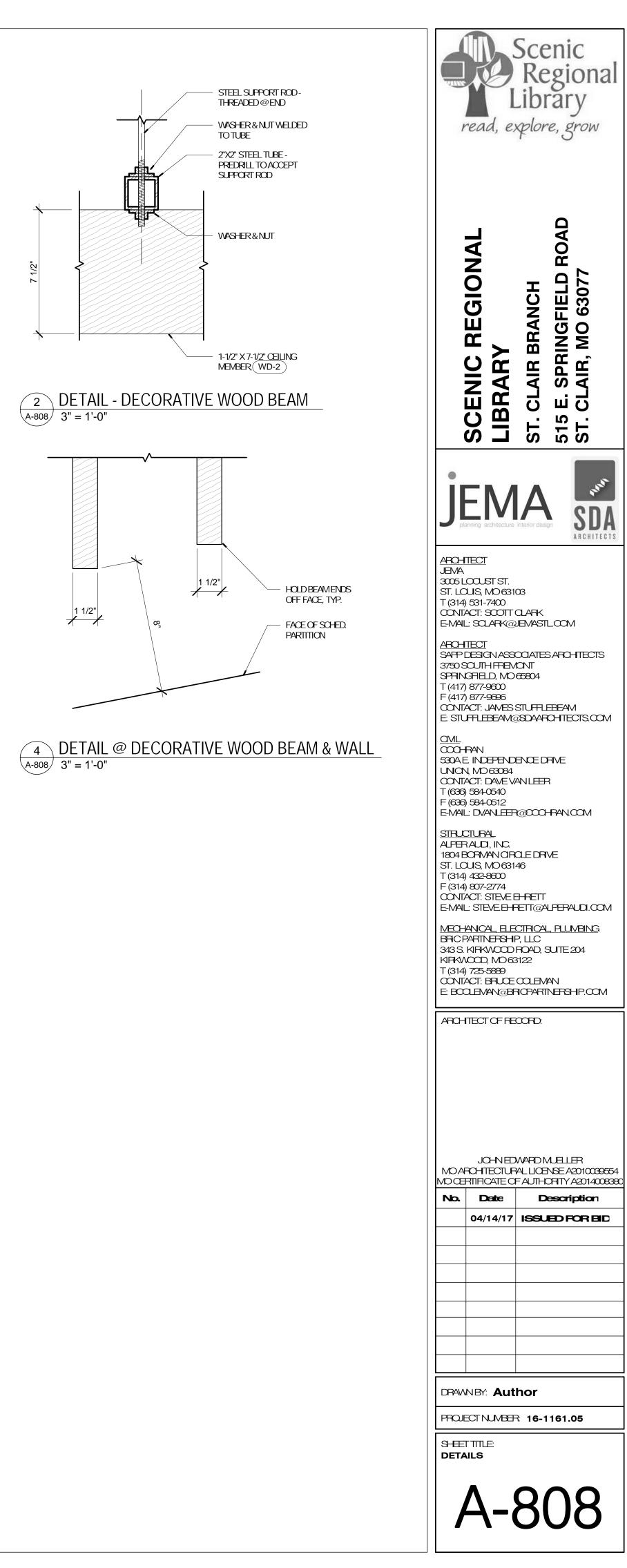












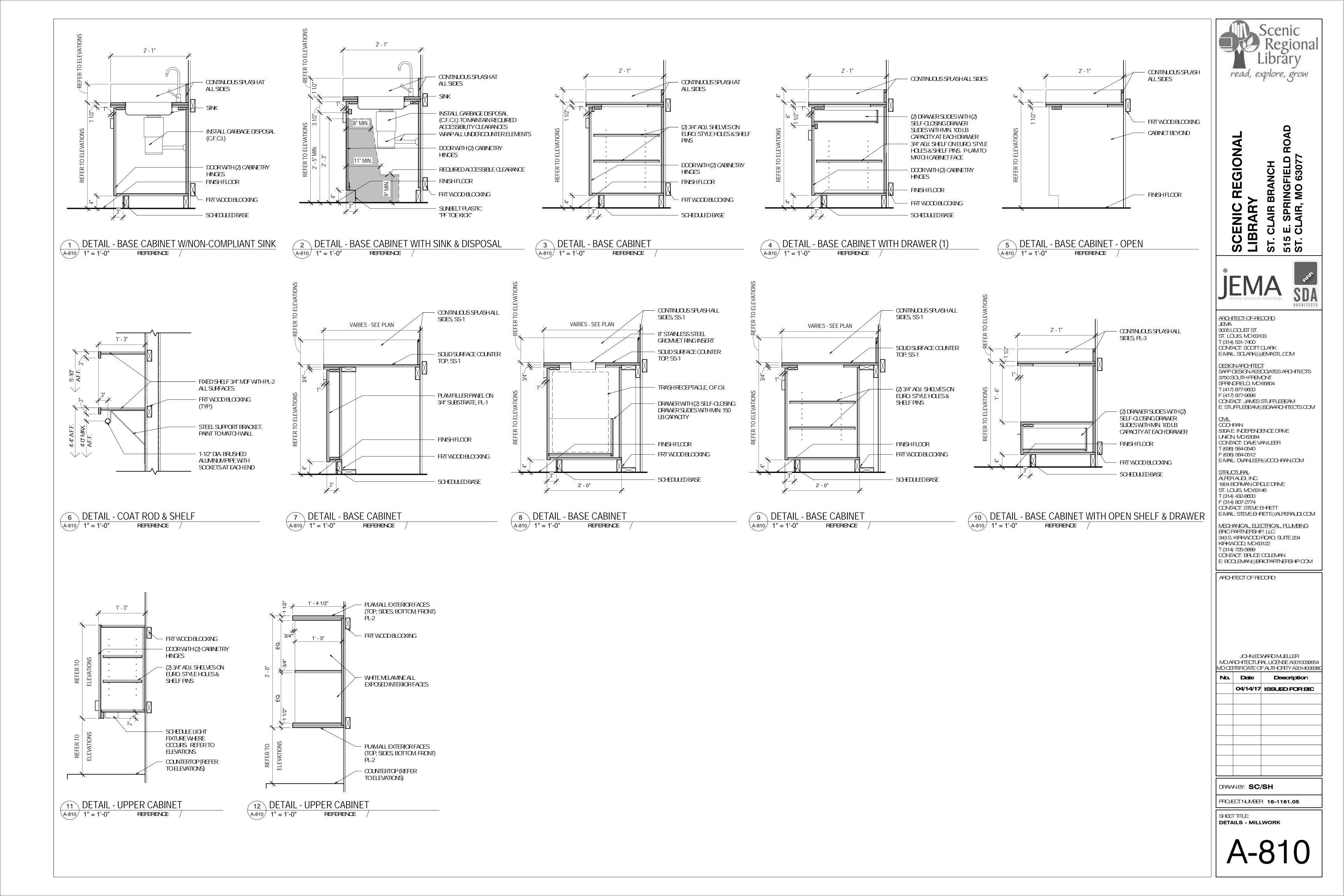
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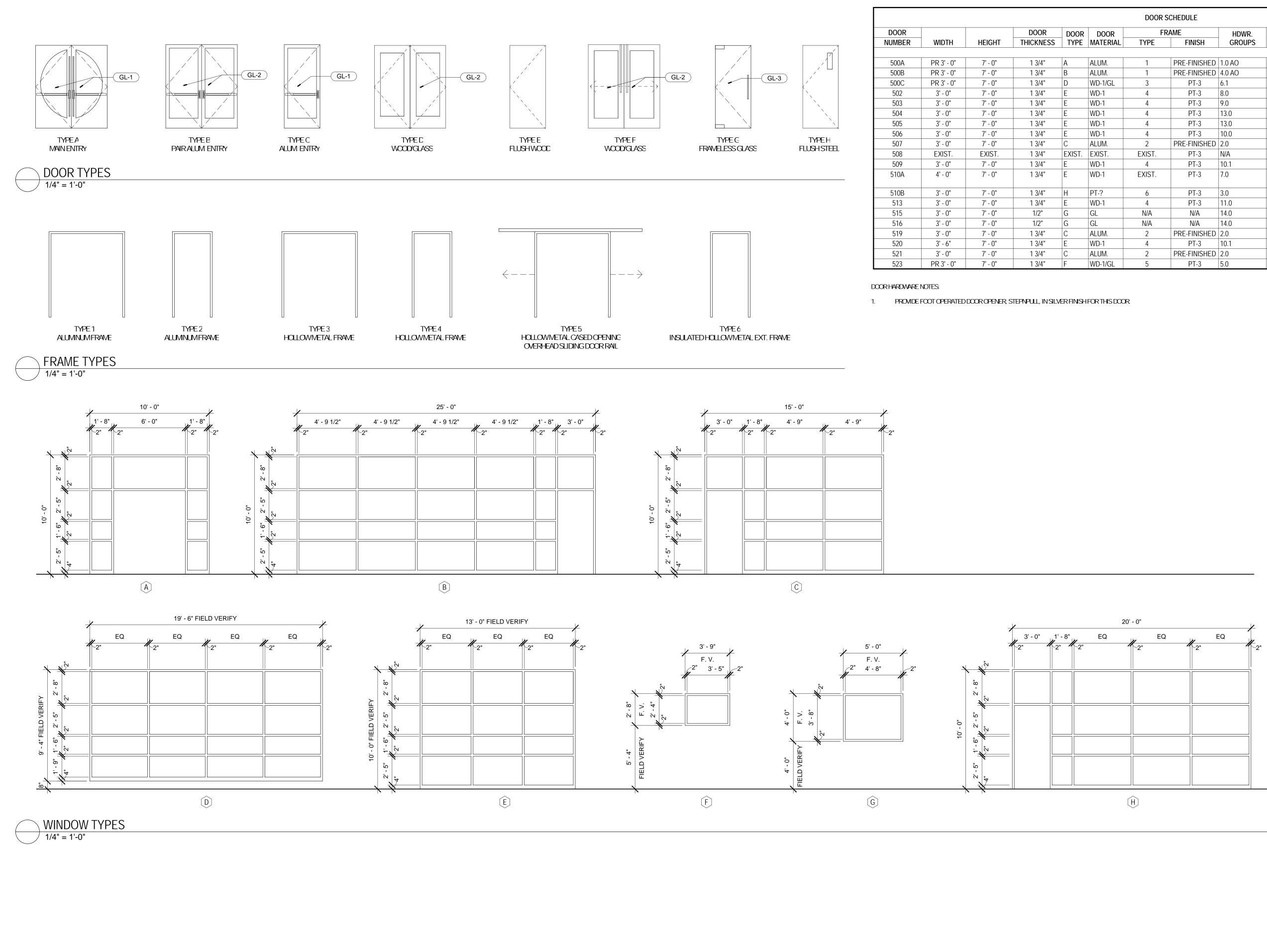
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E. SPRINGFIELD I CLAIR, MO 63077

SDA

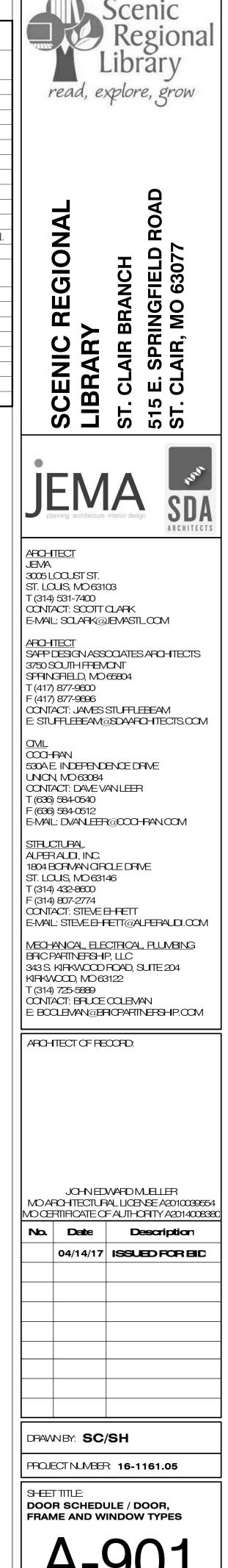
ARCHITECTS

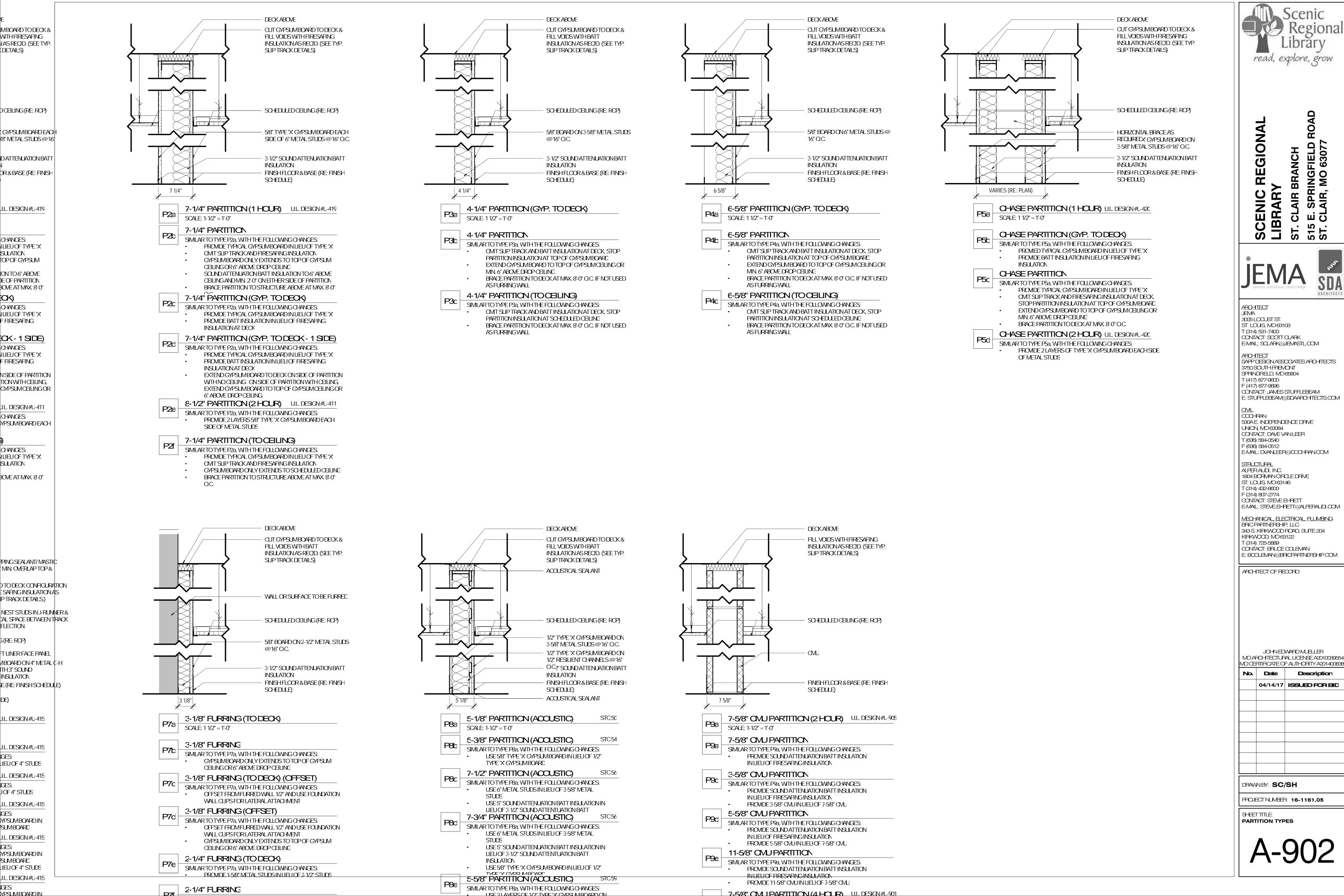




| | TYPE5 | |
|-----|---------------------|--|
| HUЦ | LOWNETAL CASED OPEN | |

| | | | | | | DOORS | SCHEDULE | | | |
|--------------|---------------------------------------|---------|-----------|--------|-----------------|--------|--------------|------------|-----------|---|
| DOOR | | | DOOR | DOOR | DOOR | FF | RAME | HDWR. | FIRE | |
| NUMBER | WIDTH | HEIGHT | THICKNESS | TYPE | MATERIAL | TYPE | FINISH | GROUPS | RATING | REMARKS |
| 500A | PR 3' - 0" | 7' - 0" | 1 3/4" | ٨ | ALUM. | 1 | PRE-FINISHED | 1040 | | |
| 500A 500B | PR 3 - 0 PR 3' - 0" | 7 - 0 | 1 3/4" | A B | ALUM. | 1 | PRE-FINISHED | | | CUSTOM COLOR TO MATCH SAMPLE, SEE SPECS. |
| 500B | PR 3 - 0 PR 3' - 0" | 7 - 0 | 1 3/4" | D | WD-1/GL | 3 | | | | |
| | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 7 - 0 | 1 3/4" | E | WD-1/GL WD-1 | - | | 6.1 8.0 | | |
| 502 | | | | E | WD-1 WD-1 | 4 | | 9.0 | | |
| 503 | 3' - 0" | 7' - 0" | 1 3/4" | | | 4 | PT-3 | | | |
| 504 | 3' - 0" | 7' - 0" | 1 3/4" | E | WD-1 | 4 | PT-3 | 13.0 | | SEE NOTE 1 BELOW, INSTALL RESTROOM SIDE. |
| 505 | 3' - 0" | 7' - 0" | 1 3/4" | E | WD-1 | 4 | PT-3 | 13.0 | | |
| 506 | 3' - 0" | 7' - 0" | 1 3/4" | E | WD-1 | 4 | PT-3 | 10.0 | | |
| 507 | 3' - 0" | 7' - 0" | 1 3/4" | С | ALUM. | 2 | PRE-FINISHED | - | | |
| 508 | EXIST. | EXIST. | 1 3/4" | EXIST. | EXIST. | EXIST. | PT-3 | N/A | | EXISTING FRAME, DOOR AND HARDWARE TO REMAIN |
| 509 | 3' - 0" | 7' - 0" | 1 3/4" | E | WD-1 | 4 | PT-3 | 10.1 | 45 MINUTE | |
| 510A | 4' - 0" | 7' - 0" | 1 3/4" | E | WD-1 | EXIST. | PT-3 | 7.0 | | NEW DOOR AND HARDWARE IN EXISTING METAL FRAME. VERIFY DOOR SIZE. |
| 510B | 3' - 0" | 7' - 0" | 1 3/4" | Н | PT-? | 6 | PT-3 | 3.0 | | |
| 513 | 3' - 0" | 7' - 0" | 1 3/4" | E | WD-1 | 4 | PT-3 | 11.0 | | |
| 515 | 3' - 0" | 7' - 0" | 1/2" | G | GL | N/A | N/A | 14.0 | | FLOOR AND HEAD PIVOTS, SEE SPECS. |
| 516 | 3' - 0" | 7' - 0" | 1/2" | G | GL | N/A | N/A | 14.0 | | FLOOR AND HEAD PIVOTS, SEE SPECS. |
| 519 | 3' - 0" | 7' - 0" | 1 3/4" | С | ALUM. | 2 | PRE-FINISHED | 2.0 | | |
| 520 | 3' - 6" | 7' - 0" | 1 3/4" | E | WD-1 | 4 | PT-3 | 10.1 | 45 MINUTE | |
| 521 | 3' - 0" | 7' - 0" | 1 3/4" | С | ALUM. | 2 | PRE-FINISHED | 2.0 | | |
| 523 | PR 3' - 0" | 7' - 0" | 1 3/4" | F | WD-1/GL | 5 | PT-3 | 5.0 | | PAIR OF SLIDERS ON RAIL |





530A E INDEPENDENCE DRIVE

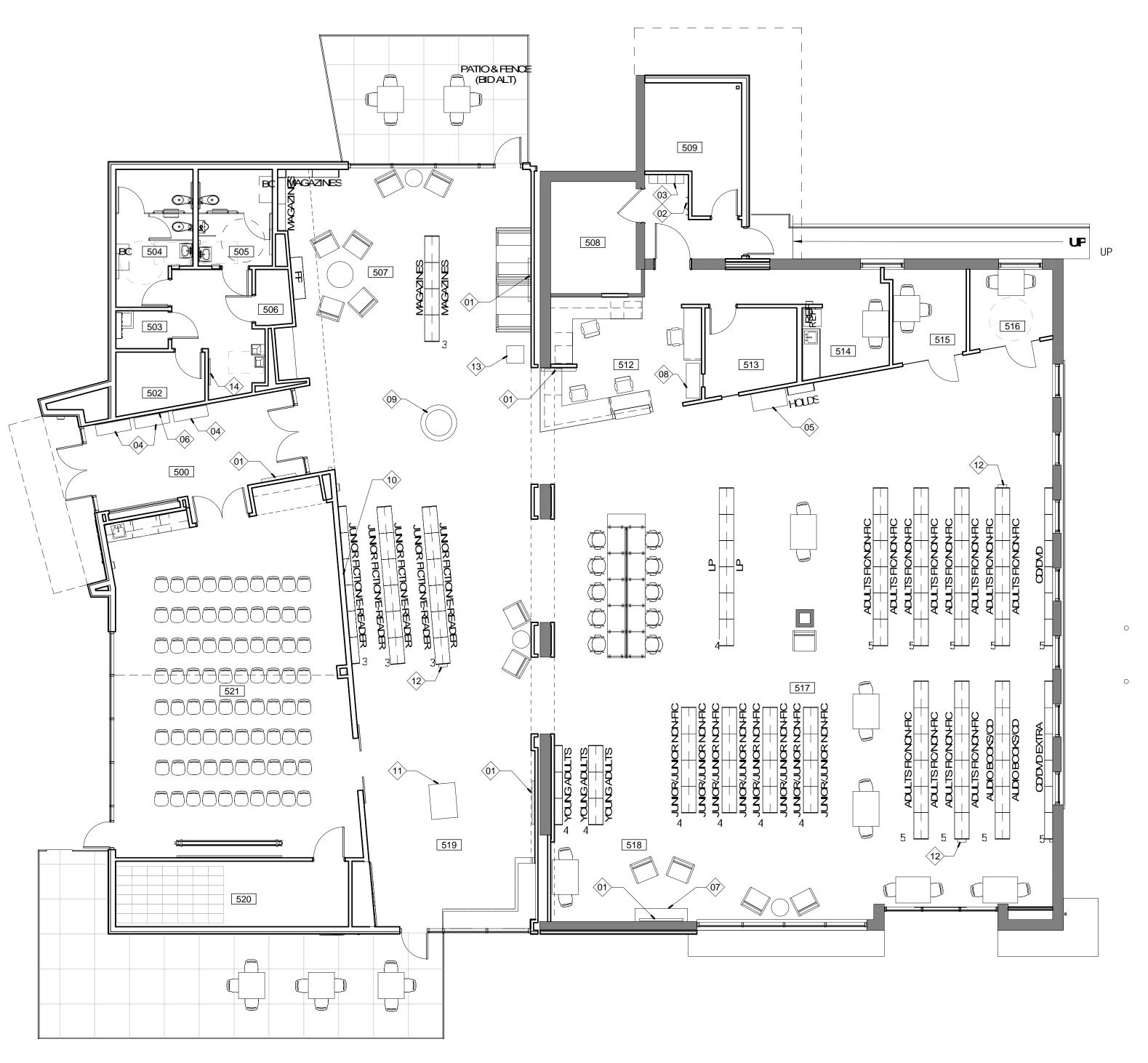
1804 BORMAN CIRCLE DRIVE E-MAL: STEVE E - RETT@ALPERAUD.COM

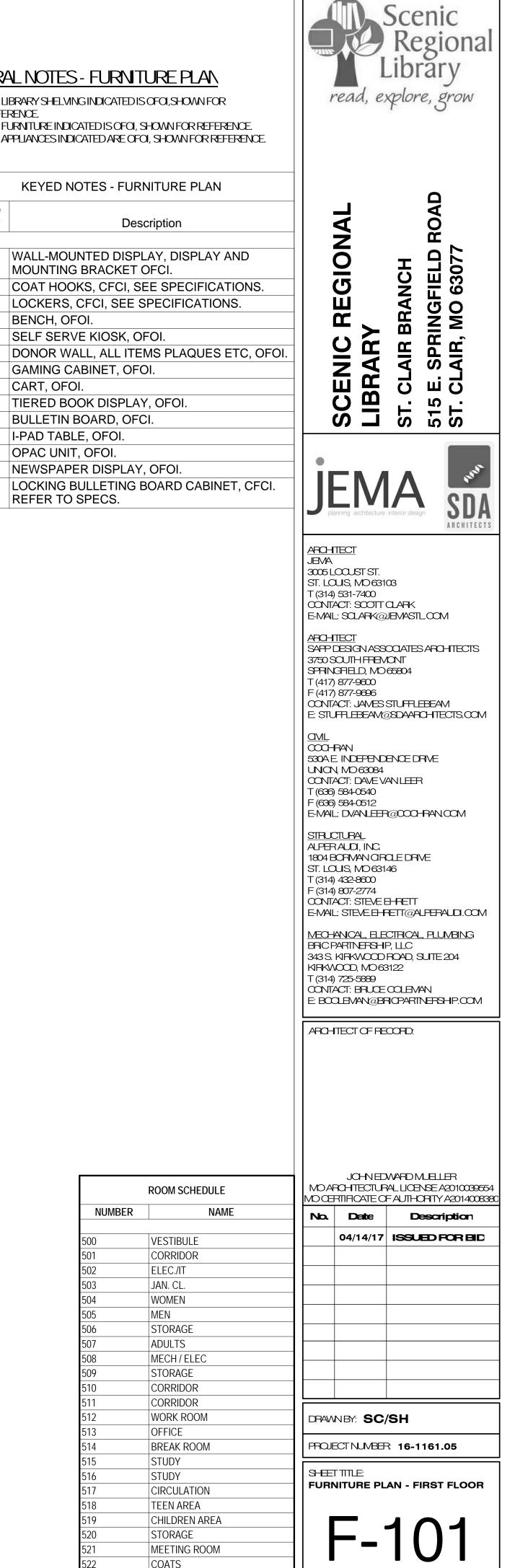
MECHANICAL, ELECTRICAL, PLUMBING 343 S. KIRKWOOD ROAD, SUITE 204 CONTACT: BRUCE COLEMAN E BOOLEVAN@BRICPARINERSHP.COM

JOHN EDWARD MJELLER MOARCHITECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

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- 1. ALL LIBRARY SHELVING INDICATED IS OF OI, SHOWN FOR REFERENCE.
- ALL FURNITURE INDICATED IS OFOI, SHOWN FOR REFERENCE. ALL APPLIANCES INDICATED ARE OFOI, SHOWN FOR REFERENCE. 2. 3

| | KEYED NOTES - FURNITURE PLAN |
|-------------------|--|
| Keynote Number | Description |
| | |
| 01 | WALL-MOUNTED DISPLAY, DISPLAY AND MOUNTING BRACKET OFCI. |
| 02 | COAT HOOKS, CFCI, SEE SPECIFICATIONS. |
| 03 | LOCKERS, CFCI, SEE SPECIFICATIONS. |
| 04 | BENCH, OFOI. |
| 05 | SELF SERVE KIOSK, OFOI. |
| 06 | DONOR WALL, ALL ITEMS PLAQUES ETC, OF |
| 07 | GAMING CABINET, OFOI. |
| 08 | CART, OFOI. |
| 09 | TIERED BOOK DISPLAY, OFOI. |
| 10 | BULLETIN BOARD, OFCI. |
| 11 | I-PAD TABLE, OFOI. |
| 12 | OPAC UNIT, OFOI. |

COATS CIRCULATION

13

14

GENERAL NOTES

DESIGN CRITERIA

A. CODES AND STANDARDS:

2009 INTERNATIONAL BUILDING CODE (I.B.C.)

BUILDING OCCUPANCY CATEGORY: II

B. DESIGN LOADS:

ROOF: SUPERIMPOSED DEAD LOADS:

ROOFING: 3 PSF INSULATION: 4 PSF METAL DECK: 3 PSF CEILINGS: 2 PSF MEP: 4 PSF SPRINKLER LIVE LOADS: 4 PSF

LIVE LOADS:

MINIMUM LIVE LOAD: 23 PSF

SNOW LOADS:

SNOW LOAD IMPORTANCE FACTOR: I = 1.0 GROUND SNOW LOAD: Pg = 20 PSF FLAT ROOF SNOW LOAD: Pf = 14 PSF SNOW EXPOSURE FACTOR: Ce = 1.0 THERMAL FACTOR: Ct = 1.0

WIND DESIGN DATA:

WIND LOAD IMPORTANCE FACTOR: I = 1.0 BASIC WIND SPEED: 90 MPH WIND EXPOSURE: C INTERNAL PRESSURE COEFFICIENT: +/- 0.18

| COMPONENTS AND CLADDING: (0.10 SF): |
|-------------------------------------|
| ZONE 1: -19.9 PSF / +10 PSF |
| ZONE 2: -23.0 PSF / +10 PSF |
| ZONE 3: -30.8 PSF / +10 PSF |
| ZONE 4: -18.2 PSF / +16.8 PSF |

ZONE 5: -22.4 PSF / +16.8 PSF

SEISMIC DESIGN DATA:

SEISMIC IMPORTANCE FACTOR: I = 1.0 MAPPED SPECTRAL RESPONSE ACCELERATIONS: Ss = 27.1 / S1 = 10.9% SITE CLASS: C SPECTRAL RESPONSE COEFFICIENTS: Sds = 21.7% / Sd1 = 12.3% SEISMIC DESIGN CATEGORY: C BASIC STRUCTURAL SYSTEM: STRUCTURAL STEEL SYSTEM BASIC SEISMIC FORCE-RESISTING SYSTEM(S): STRUCTURAL STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE. RESPONSE MODIFICATION FACTOR: R = 3 SEISMIC RESPONSE COEFFICIENT: Cs = 0.147 DESIGN BASE SHEAR: V = 10K ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE

FOUNDATIONS:

DESIGN:

1. THE FOUNDATION HAS BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE "SOILS AND FOUNDATION INVESTIGATION" BY COCHRAN, DATED NOVEMBER 7, 2016.

2. BACKFILLING:

A. DO NOT BACKFILL BASEMENT WALLS AND GRADE BEAMS UNTIL BRACING FLOORS ARE IN PLACE OR ADEQUATE TEMPORARY BRACING IS INSTALLED.

B. BACKFILL UNDER FOUNDATIONS WITH CONCRETE OR AS APPROVED BY GEOTECHNICAL ENGINEER.

SPREAD FOOTINGS:

1. FOOTINGS SHALL BEAR ON FIRM OR NATURAL SOIL OR ENGINEERED FILL CAPABLE OF SUSTAINING A NET BEARING PRESSURE OF 2000 PSF, UNDER FULL SERVICE LIVE AND DEAD LOADS.

2. TOP OF FOOTING (T/F) ELEVATIONS ARE SHOWN ON THE PLANS.

3. FOOTINGS SHALL BE POURED INTO AN EARTH-FORMED TRENCH U.N.O.. CONTRACTOR TO PROVIDE ADDITIONAL CONCRETE REQUIRED DUE TO SOIL CHARACTERISTICS OR SLOPE OF EXCAVATIONS.

4. ALL BEARING MATERIAL SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETE PLACEMENT. THE GEOTECHNICAL ENGINEER SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED AS REQUIRED.

5. BOTTOM OF EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 30" BELOW FINAL GRADE FOR FROST PROTECTION.

FOUNDATION / RETAINING WALLS:

- 1. ACTIVE DESIGN PRESSURE IS EQUAL TO AN EQUIVALENT FLUID PRESSURE OF 50 PCF
- 2. AT-REST DESIGN PRESSURE IS EQUAL TO AN EQUIVALENT FLUID PRESSURE OF 70 PCF
- 3. PASSIVE DESIGN PRESSURE IS EQUAL TO AN EQUIVALENT FLUID PRESSURE OF 250 PCF
- 4. SURCHARGE LOADS ARE 100 PSF AT THE SURFACE.
- 5. COEFFICIENT OF SLIDING FRICTION:

CONCRETE/SOIL = 0.35 (ASSUMED)

6. FOUNDATION WALLS THAT RETAIN EARTH SHALL BE BRACED AGAINST BACKFILLING PRESSURES UNTIL FLOOR SLABS AT TOP AND BOTTOM ARE IN PLACE.

7. WHERE FOUNDATION WALLS ARE TO HAVE EARTH PLACED ON EACH SIDE. PLACE FILL SIMULTANEOUSLY SO AS TO MAINTAIN A COMMON ELEVATION ON EACH SIDE OF THE WALL.

8. DO NOT BACKFILL UNTIL CONCRETE HAS REACHED ITS 28 DAY STRENGTH.

| CONCRETE: | | | | | | | | |
|--|------------------------------|------------------|------------------------------------|---|-------------------------|-------------------------------|---------------------------|-------------------------|
| 1. CONCRETE SHALL CONFORM WITH THE HAVE A 28-DAY COMPRESSIVE STRENGTH | | | | | | | | |
| INTENDED USE | 28 DAY STRENGTH f'c (K.S.I.) | CONCRETE DENSITY | MAXIMUM W/C (INCLUDING FLY ASH) | MINIMUM CEMENT MATERIAL (#/CY INCLUDING FLY ASH) | MAXIMUM AGGREGATE (IN.) | SLUMP LIMITS (IN.) (+0", -2") | TOTAL AIR LIMITS (%0) (B) | REQUIRED ADMIXTURES (C) |
| FOOTINGS | 4 | 145 | 0.48 | 564 | 1 | 4 | - | - |
| FOUNDATION WALLS | 4 | 145 | 0.48 | 564 | 3/4 | 4 | - | - |
| CONCRETE EXPOSED TO DEICERS | 4 | 145 | 0.40 | 564 | 3/4 | 4 | 6 | AE, WR |
| INTERIOR SLABS ON GRADE | 4 | 145 | 0.50 | 564 | 1 | 4 | N | - |
| ALL CONCRETE NOT OTHERWISE SPECIFIED | 4 | 145 | 0.40 | 564 | 3/4 | 4 | 6 | - |

NOTES:

NUMBERS PER A.S.T.M. C33:

3/8" - #8 AGGREGATE 3/4" - #67 AGGREGATE 1" - #57 AGGREGATE 1 1/2" - #467 AGGREGATE

B. TOTAL AIR CONTENT LIMITS INCLUDE BOTH ENTRAINED AND ENTRAPPED AIR +/- 1 1/2%. "N" IN COLUMN INDICATES ADDITION OF ENTRAINED AIR IS NOT PERMITTED.

C. ABBREVIATIONS FOR REQUIRED ADMIXTURES AS FOLLOWS: AE - AIR-ENTRAINING ADMIXTURE, WR - WATER REDUCING ADMIXTURE

2. REINFORCING SHALL CONFORM TO A.S.T.M. A615, GR. 60, INCLUDING TIES AND STIRRUPS. BARS REQUIRING WELDING OR FIELD BENDING SHALL BE A.S.T.M. A706, GRADE 60.

SPLICES f'c = 4000 P.S.I., fy = 60,000 P.S.I.

| | | | S | TANDA | RD TEN | SION LA | AP SPLI | CE, GRA | DE 60 | | | | |
|------|-------|----|-----------|-----------|---------|---------|-----------|-----------|-------|----|-----------|-----------|-----|
| | | | С | LASS A | and B L | AP SPL | CE LEN | GTH (IN | CHES) | | | | |
| | | | f'c = 3,0 | 00 P.S.I. | ı | | f'c = 4,0 | 00 P.S.I. | | | f'c = 5,0 | 00 P.S.I. | |
| BAR | CLASS | / | ٩ | E | 3 | | ٩ | E | 3 | / | ٩ | E | 3 |
| SIZE | CASE | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| #3 | | 16 | 25 | 21 | 32 | 14 | 21 | 18 | 28 | 13 | 19 | 17 | 25 |
| #4 | | 22 | 33 | 28 | 43 | 19 | 28 | 25 | 37 | 17 | 25 | 22 | 33 |
| #5 | | 27 | 41 | 36 | 53 | 24 | 36 | 31 | 46 | 21 | 32 | 28 | 41 |
| #6 | | 33 | 49 | 43 | 64 | 28 | 43 | 37 | 55 | 25 | 38 | 33 | 50 |
| #7 | | 48 | 72 | 62 | 93 | 42 | 62 | 54 | 81 | 37 | 56 | 48 | 72 |
| #8 | | 55 | 82 | 71 | 107 | 47 | 71 | 62 | 92 | 42 | 64 | 55 | 83 |
| #9 | | 62 | 93 | 80 | 120 | 54 | 80 | 70 | 104 | 48 | 72 | 62 | 93 |
| #10 | | 70 | 104 | 90 | 136 | 60 | 90 | 78 | 117 | 54 | 81 | 70 | 105 |
| #11 | | 77 | 116 | 100 | 151 | 67 | 100 | 87 | 130 | 60 | 90 | 78 | 117 |

SEE NOTE 4 IN TABLE NOTES.

| | | TABLE |
|-------------------|--------------|----------------|
| COMPRESSION | LAP SCHEDULE | |
| LAP LENGT | H (INCHES) | 1. TAE BARS |
| f'c = 3,000 P.S.I | . OR GREATER | DIAME |
| BAR SIZE | 30 BAR DIA. | USE C |
| #3 | 12 | 2. ALL |
| #4 | 15 | OTHEF |
| #5 | 19 | 3. SPL |
| #6 | 22 | MESH |
| #7 | 26 | 4. FOF |
| #8 | 29 | |
| #9 | 33 | 5. FOF |
| #10 | 37 | LESS |
| #11 | 41 | EPOX |
| | | 6. FOF |

BY 1.3.

LATEST EDITION OF THE A.C.I. DETAILING MANUAL.

6. ALL REINFORCING SHALL BE SUPPORTED IN FORMS, SPACED WITH NECESSARY ACCESSORIES DETAILING", LATEST EDITION.

7. MINIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE:

A. UNFORMED SURFACE IN CONTACT WITH THE GROUND: 3 IN.

B. FORMED SURFACES EXPOSED TO EARTH OR WEATHER: 1 1/2 IN. FOR #5 BAR OR SMALLER, 2 IN. FOR #6 BAR OR LARGER

C. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER: WALLS, SLABS: 3/4 IN., BEAMS, GIRDERS AND COLUMNS (TO TIES OR STIRRUPS): 1 1/2 IN.

A. FOR MAXIMUM COARSE AGGREGATE SIZE INDICATED, USE THE FOLLOWING AGGREGATE SIZE

D. MAXIMUM SHRINKAGE FOR SLAB ON GRADE SHALL BE LIMITED TO 5/8" PER 100 FOOT.

3. WELDED WIRE FABRIC SHALL CONFORM TO A.S.T.M. A185.

4. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS NOTED OTHERWISE. WHERE CLASSES ARE NOT CALLED OUT ON DRAWINGS, USE CLASS "B" SPLICES.

"TOP BARS" ARE DEFINED AS ANY BAR WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR.

E NOTES:

BLES ARE BASED A.C.I. 318. WHERE CLEAR SPACING OF BEING DEVELOPED OR SPLICED IS AT LEAST 2 BAR ETERS AND THE CLEAR COVER AT LEAST 1 BAR DIAMETER. CASE 1. USE CASE 2 FOR OTHER BAR ARRANGEMENTS.

_ SPLICES TO BE CLASS "B" TENSION SPLICE UNLESS RWISE NOTED.

LICE PLAIN WELDED WIRE FABRIC BY LAPPING ONE FULL SPACE PLUS 2 INCHES.

R TOP BARS, MULTIPLY LENGTHS IN TABLE BY 1.3.

R EPOXY COATED REINFORCEMENT, MULTIPLY LENGTHS BLE BY 1.5 FOR COVER LESS THAN 3db OR CLEAR SPACING THAN 6db, MULTIPLY LENGTHS BY 1.2 FOR ALL OTHER Y COATED REINFORCEMENT.

6. FOR LIGHT WEIGHT CONCRETE, MULTIPLY LENGTHS IN TABLE

7. COMPRESSION DOWEL EMBEDMENT: 22 BAR DIAMETERS

5. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED, IN ACCORDANCE WITH THE

AND SHALL BE SECURELY WIRED TOGETHER, IN ACCORDANCE WITH C.R.S.I. "REINFORCING BAR

CONCRETE NOTES (CONT)

8. ALL CONSTRUCTION JOINTS SHOWN ON DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE, UNLESS THEIR ELIMINATION IS APPROVED BY THE ENGINEER. ADDITIONAL CONSTRUCTION JOINTS, REQUIRED TO FACILITATE CONSTRUCTION, SHALL BE LOCATED AT POINTS OF MINIMUM SHEAR AND SHALL BE DETAILED ON SHOP DRAWINGS WITH LOCATIONS SUBJECT TO APPROVAL BY ENGINEER. REINFORCEMENT SHALL PASS CONTINUOUSLY THROUGH THE JOINT.

9. ALL ABUTTING CONCRETE MEMBERS SHALL BE DOWELED TOGETHER, UNLESS POURED MONOLITHICALLY. DOWELS SHALL BE EQUAL IN SIZE AND SPACING TO THE REINFORCING IN THE ADJACENT MEMBER.

10. UNLESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS. PROVIDE 3/4" CHAMFERS AT ALL EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE.

11. SEE ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIP SLOTS, REGLETS, MASONRY ANCHORS, PRECAST BEARING LEDGES, BRICK LEDGE ELEVATIONS AND FOR MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ANGLES, ETC.

12. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES. WHERE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF A.C.I. 301

13. MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS SHALL BE REFERRED TO FOR DRAINS, SLEEVES, OUTLET BOXES, CONDUIT, ANCHORS, ETC. THE VARIOUS TRADES ARE RESPONSIBLE FOR PLACING THEIR ITEMS.

14. REFER TO MECHANICAL DRAWINGS FOR HOUSEKEEPING PADS AND INERTIA BASES AT MECHANICAL EQUIPMENT.

15. PROVIDE CONCRETE EQUIPMENT PADS, INERTIA BASES AND CURBS AS NOTED ELSEWHERE IN CONTRACT DOCUMENTS. UNLESS NOTED, DOWEL PADS WITH HOOKED #4 x 0'-6" PROJECTING 3" FROM CONCRETE BELOW AT 18"O.C. EACH WAY. REINFORCE PADS WITH #4@18 EACH WAY, TOP AND BOTTOM, UNLESS OTHERWISE REQUIRED BY EQUIPMENT ANCHORAGE DESIGN.

16. REFER TO MECHANICAL DRAWINGS FOR UNDERFLOOR AND PERIMETER FOUNDATION DRAINS.

17. BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES, ETC., BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 3" CONCRETE.

18. PROVIDE CONTINUOUS WATERSTOP AT HORIZONTAL AND VERTICAL JOINTS BELOW GRADE.

19. SHORING OF COMPOSITE BEAMS AND GIRDERS IS THE RESPONSIBILITY OF THE CONCRETE CONTRACTOR. SEE COMPOSITE BEAM AND DECK NOTES FOR SHORING REQUIREMENTS.

20. FILL SLABS INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE REINFORCED WITH 6x6-W1.4xW1.4 W.W.F., UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR PLAN DIMENSIONS, THICKNESSES, SLOPES TO DRAIN, ETC.

21. WHERE REINFORCING IS NOT INDICATED OR DEFINED, INCLUDE FOR BID PURPOSES ONLY:

A. WALLS: #5 EACH WAY EACH FACE. SPACING IN INCHES = 140 / (WALL THICKNESS IN INCHES) BUT NOT OVER 18"O.C.

B. BEAMS: 1-#9 CONTINUOUS TOP AND BOTTOM FOR EACH 100 SQUARE INCHES OF BEAM CROSS SECTIONAL AREA AND #4 STIRRUPS SPACED AT 1/4 OF BEAM DEPTH FULL LENGTH OF BEAM.

C. COLUMNS: 1-#9 VERTICAL PER 50 SQUARE INCHES OF CROSS SECTIONAL AREA AND #3 TIES @ 9"O.C.

D. SLABS: #5 EACH WAY TOP AND BOTTOM. SPACING IN INCHES = 100/(SLAB THICKNESS IN INCHES) BUT NOT OVER 18"O.C.

ON SHOP DRAWINGS, INDICATE ABOVE REINFORCING AS "PER GENERAL NOTES". SUCH REINFORCING MAY BE REVISED OR RELOCATED BY STRUCTURAL ENGINEER DURING SHOP DRAWING REVIEW.

22. MASONRY DOWELS: PROVIDE, PLACE, AND SPACE TO MATCH MASONRY REINFORCING.

23. PROVIDE STANDARD HOOKS ON BARS TERMINATING AT A CONCRETE FACE UNLESS NOTED (E.G.: EDGES OF OPENINGS, SLAB EDGES, EXPANSION JOINTS, ENDS OF BEAMS, AND AT: TOP. BOTTOM AND ENDS OF WALLS, ETC ...).

24. PROVIDE (2)#5 (MINIMUM) @ EACH SIDE OF OPENING. EXTEND 2'-0" BEYOND OPENINGS.

STRUCTURAL STEEL:

1. STEEL SHALL CONFORM TO THE FOLLOWING GRADES:

ALL WIDE FLANGE (U.N.O.): A992 GRADE 50 (Fy=50) ALL CHANNEL, ANGLE, BASE PLATES, CONNECTION. PLATES (U.N.O.): A36 (Fy=36)

STRUCTURAL PIPE: A53 (Fy=35) STRUCTURAL HSS RECTANGULAR TUBE: A500 GRADE B (Fy=46)

STRUCTURAL HSS ROUND TUBE: A500 GRADE B (Fy=42)

2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE A.I.S.C. CODE OF STANDARD PRACTICE, EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS.

3. CONNECTIONS MAY BE BOLTED OR WELDED. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF CONNECTIONS NOT DESIGNED ON THE DRAWINGS. GENERALLY, CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. ANY CONNECTION THAT IS NOT SHOWN OR IS NOT COMPLETELY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF THE PROJECT, RETAINED BY THE FABRICATOR. COMPLETELY DETAILED MEANS THE FOLLOWING INFORMATION IS SHOWN ON THE DETAIL:

A. ALL PLATE DIMENSIONS AND GRADES.

B. ALL WELD SIZES, LENGTHS, PITCHES, AND RETURNS.

C. ALL HOLE SIZES AND SPACINGS.

D. NUMBER AND TYPES OF BOLTS: WHERE BOLTS ARE SHOWN BUT NO NUMBER IS GIVEN, THE CONNECTION HAS NOT BEEN COMPLETELY DETAILED.

E. WHERE PARTIAL INFORMATION IS GIVEN, IT SHALL BE THE MINIMUM REQUIREMENT FOR THE CONNECTION.

PRIOR TO FABRICATION, PROVIDE (FOR RECORD COPY) DESIGN CALCULATIONS FOR TYPICAL BEAM CONNECTIONS, ALL PRIMARY BRACING AND HANGER CONNECTIONS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT SHALL BE SUBMITTED TO THE ENGINEER.

STRUCTURAL STEEL (CONT)

4. CONNECTION DESIGN FORCES:

A. UNLESS REACTIONS ARE SHOWN, FACTORED BEAM CONNECTIONS SHALL BE DESIGNED FOR THE GREATER OF:

55% OF MAXIMUM TOTAL UNIFORM LOAD FROM A.I.S.C. 13TH EDITION MAXIMUM TOTAL UNIFORM LOAD TABLES

15 KIPS

B. MOMENT CONNECTIONS INDICATED ON THE DRAWINGS THUS: ---<H>--- DESIGN FOR MOMENT SHOWN OR, IF NOT SHOWN, DEVELOP THE FULL PLASTIC MOMENT CAPACITY OF MEMBER.

C. MAINTAIN TENSION CAPACITY OF COLUMNS, DIAGONALS AND MEMBERS SUBJECT TO TENSION AT BOLT HOLES, NOTCHES, OR COPES.

D. CONNECTION FORCE NOTATION:

P = AXIAL FORCE IN KIPS: (+) TENSION, (-) COMPRESSION V OR [] = SHEAR IN KIPS

M = MOMENT IN FOOT KIPS T = TORSION IN FOOT KIPS

E. LOADS SHOWN INCLUDE COMPENSATION FOR CODE PERMITTED STRESS INCREASES AND LOAD REDUCTIONS FOR CONNECTION DESIGN.

5. THE MINIMUM PLATE THICKNESS SHALL BE 3/8".

6. BOLTED CONNECTIONS:

A. MINIMUM BOLT DIAMETER = 3/4"

B. SLIP CRITICAL CONNECTIONS OF A325SC OR A490SC BOLTS SHALL BE USED FOR ALL BOLTED CONNECTIONS OF BRACING MEMBERS, MOMENT CONNECTIONS, CANTILEVERS, AND AS SHOWN ON THE DRAWINGS. OVERSIZED AND LONG-SLOTTED HOLES ARE ALLOWED FOR SLIP CRITICAL CONNECTIONS.

C. ALL OTHER BOLTED CONNECTIONS SHALL BE BEARING TYPE USING A325N OR A490N BOLTS. OVERSIZED HOLES AND LONG-SLOTTED HOLES ARE NOT ALLOWED UNLESS SHOWN ON THE DRAWINGS.

D. A307 BOLTS MAY BE USED WHERE INDICATED ON THE DRAWINGS.

E. PROTRUDING BOLT HEADS, SHAFTS OR NUTS SHALL NOT EXTEND INTO NOR PROHIBIT THE APPLICATION OF ARCHITECTURAL FINISHES AND THEY SHALL NOT EXTEND INTO NOR PROHIBIT THE PLACEMENT OF STEEL DECKING TO THE CORRECT LINE AND ELEVATION.

F. THE FABRICATOR IS RESPONSIBLE FOR VERIFYING THE TENSION CAPACITY OF AXIALLY LOADED MEMBERS AFTER A SECTION IS REDUCED FOR BOLT HEADS. MEMBER SIZE MAY BE INCREASED OR CONNECTION PLATES ADDED AS REQUIRED.

G. SHOP DRAWINGS SHALL INDICATE THE TYPE OF BOLT USED IN EACH CONNECTION AND THE ALLOWABLE VALUES USED FOR THE VARIOUS BOLT TYPES.

7. WELDED CONNECTIONS:

A. WELDS ARE CONTINUOUS UNLESS NOTED.

B. ALL FILLET WELDS: A.I.S.C. MINIMUM BUT NOT LESS THAN 1/4" UNLESS NOTED OTHERWISE.

C. ALL WELDING SHALL BE IN ACCORDANCE WITH THE CURRENT "STRUCTURAL WELDING CODE" (A.W.S. D1.1) PUBLISHED BY THE AMERICAN WELDING SOCIETY. ELECTRODES FOR WELDING SHALL COMPLY WITH THE REQUIREMENTS OF TABLE 4.1.1 OF (A.W.S. D1.1).

D. ALL GROOVE WELDS SHALL BE COMPLETE PENETRATION UNLESS NOTED OTHERWISE

8. SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.

9. NO CHANGE IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS SHALL BE MADE AND HOLES, SLOTS, CUTS, ETC., ARE NOT PERMITTED THROUGH ANY MEMBER UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS.

10. NO FINAL BOLTING OR WELDING SHALL BE MADE UNTIL AS MUCH OF THE STRUCTURE AS WILL BE STIFFENED THEREBY HAS BEEN PROPERLY ALIGNED.

11. UNLESS NOTED OTHERWISE, BEAMS SHALL BEAR 8" MINIMUM ON CONCRETE OR MASONRY. ANCHOR BEAMS TO MASONRY OR CONCRETE WITH 2-3/4" DIA. ANCHOR BOLTS OR WELDED TO EMBED PLATE.

12. FABRICATE ALL BEAMS WITH THE MILL CAMBER UP.

13. SHEAR STUDS: CONFORM TO A.W.S. D1.1-98, SHOP WELD EXCEPT WHERE APPLIED THROUGH METAL DECK.

14. HEADED STUDS SHALL CONFORM TO A.S.T.M. A108, GRADE 1015, WELDABLE (Fy = 65 K.S.I.).

15. WHERE FIREPROOFING IS REQUIRED, ADJUST FIREPROOFING THICKNESS BASED ON MEMBER SIZES. SEE ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS AND THICKNESS.

16. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN AND DETAILING OF STEEL STAIRS. STAIRS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. STAIRS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT, RETAINED BY THE FABRICATOR.



METAL ROOF DECK:

1. METAL ROOF DECK SHALL COMPLY WITH THE REQUIREMENTS OF THE STEEL DECK INSTITUTE PROJECT SPECIFICATIONS SEE PLANS FOR DECK TYPES AND GAUGES.

2. METAL ROOF DECK HAS BEEN DESIGNED TO FUNCTION AS A DIAPHRAGM FOR THE TRANSMISSION OF LATERAL LOADS.

3. LAP DECK 4" MINIMUM AT SPLICES CENTERED ON SUPPORT

4. DO NOT SUSPEND POINT LOADS FROM DECK INCLUDING HANGERS FOR: CEILINGS, PIPES, DUCTS, EQUIPMENT, ETC... CONTRACTOR INSTALLING SUCH POINT LOADS SHALL PROVIDE SUB-FRAMING TO TRANSFER LOAD TO STRUCTURE SUPPORTING DECK.

5. FABRICATE DECK UNITS IN LENGTHS TO SPAN THREE OR MORE SUPPORT SPACINGS.

6. MINIMUM YIELD STRENGTH = 33 K.S.I.

7. METAL DECK SHALL BE ROLLED OF STEEL SHEETS CONFORMING TO A.S.T.M. A1008 GRADE A. NO METAL ROOF DECK SHALL HAVE SECTION PROPERTIES PER FOOT OF WIDTH NOT LESS THAN THAT PROVIDED BY VULCRAFT FOR THE TYPE OF DECK INDICATED.

8. DECKING MANUFACTURER SHALL COORDINATE SIZE AND LOCATION OF ROOF OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. PROVIDE FRAMING FOR OPENINGS PER TYPICAL DETAILS.

STEEL JOISTS:

1. STEEL JOISTS SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH "S.J.I." SPECIFICATIONS (LATEST EDITION).

2. BRIDGING SHALL BE SPACED IN ACCORDANCE WITH S.J.I. SPECIFICATIONS AND THE ERECTION DRAWINGS OF THE JOIST SUPPLIER. STEEL JOIST BRIDGING SHALL BE PLACED AND JOIST ENDS FIXED PRIOR TO THE APPLICATION OF ANY LOADS. JOIST SUPPLIER SHALL PROVIDE ALL BRIDGING NECESSARY TO ADEQUATELY BRACE THE JOIST TOP CHORD WHERE ROOF CONSTRUCTION IS INSUFFICIENT.

3. MINIMUM BEARING REQUIREMENTS, UNLESS NOTED OTHERWISE

K SERIES: 2 1/2" ON STRUCTURAL STEEL

LH & DLH SERIES: 4" ON STRUCTURAL STEEL

4. UNLESS NOTED OTHERWISE, JOISTS SHALL BE ATTACHED TO SUPPORTING STEEL WORK AS FOLLOWS:

K SERIES: TWO 1/8" FILLET WELDS (ONE EACH SIDE) 2" LONG OR EQUIVALENT. LH & DLH SERIES: TWO 1/4" FILLET WELDS (ONE EACH SIDE) 2" LONG OR EQUIVALENT.

5. JOISTS, AT COLUMN CENTERLINES, SHALL BE BOLTED TO STRUCTURAL STEEL BEAMS PER S.J.I. REQUIREMENTS.

6. SEE DETAILS FOR ATTACHMENT OF JOISTS TO CONCRETE AND MASONRY.

7. BRIDGING THAT TERMINATES AT, OR IS INTERRUPTED BY, STRUCTURAL STEEL BEAMS, SHALL BE ATTACHED THERETO BY FIELD WELDING OR BOLTING. SEE DRAWINGS FOR DETAIL OF ATTACHMENT OF BRIDGING TO CONCRETE OR MASONRY.

8. JOISTS SHALL BE STOCKPILED AT THE JOBSITE IN A VERTICAL POSITION, RESTING ON THEIR TOP OR BOTTOM CHORDS, AND SHALL BE ADEQUATELY SUPPORTED WITH WOOD BLOCKING. KEEP JOISTS FREE OF MUD AND DIRT.

9. IT SHALL BE THE ERECTOR'S RESPONSIBILITY TO SEE THAT JOISTS WHICH ARE DAMAGED, KINKED, BENT, OR WITH BROKEN WELDS, ARE NOT PLACED IN THE STRUCTURE.

10. JOIST SUPPLIER SHALL DESIGN JOISTS AND SUBMIT CALCULATIONS, STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER IN THE STATE OF THE PROJECT FOR RECORD COPY TO BUILDING DEPARTMENT AND ENGINEER OF RECORD PRIOR TO FABRICATION OF JOISTS. THE ABOVE CALCULATIONS TO INCLUDE ALL LOADING CONDITIONS SHOWN ON THE DRAWINGS AND DETAILS.

11. JOIST ENDS, AT ROOF DIAPHRAGM BOUNDARIES, SHALL BE CAPABLE OF TRANSMITTING THE BOUNDARY SHEAR TO THE SUPPORTING STRUCTURE. SEE DETAILS.

12. THE JOIST DESIGN AND BRIDGING PLACEMENT SHALL BE CHECKED BY THE JOIST MANUFACTURER USING THE NET UPLIFT SPECIFIED ON THE DRAWINGS. CHANGES IN JOIST SIZE AND/OR BRIDGING PLACEMENT WILL SHOW UP ON THE SHOP DRAWINGS.

13. LOCATE PIPE AND EQUIPMENT HANGERS AND OTHER CONCENTRATED LOADS ONLY WHERE LOADS ARE SHOWN ON JOIST SHOP DRAWINGS. ATTACHMENT METHOD AS APPROVED BY JOIST MANUFACTURER.

14. ALL HOLES IN SUPPORTING STEEL PROVIDED FOR JOIST ERECTION SHALL BE "FILLED" WITH APPROPRIATE DIAMETER BOLT OR PLUG WELDED. HOLES IN SUPPORTING STEEL SHALL NOT BE SLOTTED.

POST-INSTALLED MECHANICAL ANCHORS:

1. POST-INSTALLED MECHANICAL ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN ANCHORS. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS. DO NOT CUT EXISTING REINFORCING.

2. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OR RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

3. UNLESS SPECIFIED OTHERWISE, ANCHORS SHALL BE EMBEDDED IN THE APPROPRIATE SUBSTRATE WITH A MINIMUM EMBEDMENT OF 8 TIMES THE NOMINAL ANCHOR DIAMETER OR THE EMBEDMENT DEPTH REQUIRED TO SUPPORT THE INTENDED LOAD. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE LISTED BELOW, SHALL BE SUBMITTED TO THE ENGINEER WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE WHERE PROJECT IS LOCATED, SHOWING THAT THE SUBSTITUTED PRODUCTS WILL ACHIEVE AN EQUIVALENT CAPACITY.

4. UNLESS OTHERWISE NOTED IN THE DETAILS, ANCHORS SHALL BE:

A. CONCRETE EXPANSION ANCHORS:

ALL CONCRETE EXPANSION ANCHORS SHALL MEET THE REQUIREMENTS OF A.C.I. 318, APPENDIX D AND SHALL BE ACCEPTABLE FOR BOTH CRACKED AND UN-CRACKED CONCRETE.

"STRONG-BOLT" BY SIMPSON STRONG-TIE CO. (ICC-ES ESR-1771) "KWIK BOLT TZ" BY HILTI, INC. (ICC-ES ESR-1917) "HSL HEAVY DUTY SLEEVE ANCHOR" BY HILTI, INC. (ICC-ES ESR-1545) "HDA UNDERCUT ANCHOR" BY HILTI, INC. (ICC-ES ESR-1546) "KWIK BOLT 3" BY HILTI, INC. UNCRACKED ONLY (ICC-ES ESR-2302)

B. GROUTED MASONRY EXPANSION ANCHORS:

"WEDGE-ALL" BY SIMPSON STRONG-TIE CO. (ICC-ES ESR-1396) "KWIK BOLT 3" BY HILTI, INC. (ICC-ES ESR-1385) ADHERE TO MANUFACTURES REQUIREMENTS FOR ANCHOR SPACING AND LOCATIONS

C. CONCRETE SCREW ANCHORS:

ALL SCREW ANCHORS SHALL BE INSTALLED IN DRY, INTERIOR NON-CORROSIVE ENVIRONMENTS OR FOR TEMPORARY OUTDOOR APPLICATIONS.

"TITEN HD" BY SIMPSON STRONG-TIE CO. (ICC-ES ESR-2713) CRACKED AND UN-CRACKED CONCRETE. "KWIK HUS EZ AND EZ-1" BY HILTI, INC. (ICC-ES ESR-3027)

D. MASONRY SCREW ANCHORS:

ALL SCREW ANCHORS SHALL BE INSTALLED IN DRY, INTERIOR NON-CORROSIVE ENVIRONMENTS OR FOR TEMPORARY OUTDOOR APPLICATIONS.

"TITEN HD" BY SIMPSON STRONG-TIE CO. (ICC-ES ESR-2713)

E. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE ICC-ES REPORT AND AS PRESCRIBED BY THE APPLICABLE BUILDING CODE.

"HUS-H SCREW ANCHOR" BY HILTI, INC. (ICC-ES ESR-2369)

POST-INSTALLED ADHESIVE ANCHORS:

 POST-INSTALLED ADHESIVE ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN ANCHORS. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS. DO NOT CUT EXISTING REINFORCING.

2. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

3. ADHESIVE ANCHOR SYSTEMS IN CONCRETE MUST COMPLY WITH THE LATEST REVISION OF ICC-ES ACCEPTANCE CRITERIA AC308 AND HAVE A VALID ICC-ES REPORT IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE. ACCEPTABLE ADHESIVE ANCHOR SYSTEMS IN CONCRETE ARE LISTED BELOW:

"HIT-HY 200SAFE SET" BY HILTI, INC. (ICC-ES ESR-3187) "HIT RE 500-SD" BY HILTI, INC. (ICC-ES ESR-2322) CRACKED AND UN-CRACKED CONCRETE "SET-XP EPOXY" BY SIMPSON STRONG-TIE CO. (ICC-ES ESR-2508) CRACKED AND UN-CRACKED CONCRETE

ADHESIVE ANCHORS SHALL CONSIST OF AN INSERT AND AN ADHESIVE FORMULA. INSERTS SHALL MEET THE REQUIREMENTS OF A.S.T.M. A307, A36, A193-B7, OR F1554 FOR THREADED RODS OR A.S.T.M. A615 OR A706 FOR REBAR UNLESS NOTED OTHERWISE.

ALL ADHESIVE ANCHORS SHALL BE ACCEPTABLE FOR LONG TERM LOADING ONLY. NON-EPOXY BASED ADHESIVES SHALL BE USED WHEN BASE MATERIAL TEMPERATURES ARE BELOW 40 DEG F.

4. ADHESIVE ANCHOR SYSTEMS IN GROUTED MASONRY MUST COMPLY WITH THE LATEST REVISION OF ICC-ES AND HAVE A VALID ICC-ES REPORT IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE. ACCEPTABLE ADHESIVE ANCHOR SYSTEMS ARE LISTED BELOW:

"HIT-HY 70" BY HILTI, INC. (ICC-ES ESR-PENDING) "SET EPOXY" BY SIMPSON STRONG-TIE CO. (ICC-ES ESR-1772) ADHERE TO MANUFACTURES REQUIREMENTS FOR ANCHOR SPACING AND LOCATIONS.

5. DRILLING SHALL BE PERFORMED WITH A ROTARY HAMMER DRILL AND CARBIDE TIPPED DRILL BIT IN ACCORDANCE WITH INSTRUCTIONS ACCOMPANYING ADHESIVE CARTRIDGES AND APPLICABLE ICC-ESR.

6. BORE HOLE CLEANING PROCEDURES MUST COMPLY WITH INSTRUCTIONS ACCOMPANYING THE ADHESIVE CARTRIDGE AND APPLICABLE ICC-ESR IN ORDER TO PRODUCE A DRY, DUST-FREE HOLE.

7. INJECTION OF ADHESIVE SHALL BE PREFORMED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS ACCOMPANYING PRODUCT AND APPLICABLE ICC-ESR TO PRODUCE AN AIR-VOID FREE INJECTION.

8. ALTERNATE DRILLING METHODS, SUCH AS DIAMOND CORING, MUST BE APPROVED BY THE ENGINEER OF RECORD AND COMPLY WITH THE APPLICABLE ICC-ES REPORT.

9. SPECIAL CONDITIONS SUCH AS WATER SATURATED CONCRETE, WATER-FILLED HOLES, UNDERWATER AND OVERHEAD INSTALLATIONS MUST BE APPROVED BY THE ENGINEER OF RECORD AND COMPLY WITH THE APPLICABLE ICC-ES REPORT.

10. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE ICC-ES REPORT AND AS PRESCRIBED BY THE APPLICABLE BUILDING CODE.

11. FASTENING ELEMENTS (THREADED RODS, REBAR AND INTERNALLY THREADED INSERTS) MUST BE CLEAN, DRY AND FREE OF ANY OIL OR CONTAMINANTS.

12. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING HILTI PROFI SYSTEM.

DEFERRED SUBMITTALS:

1. THE FOLLOWING PROJECT COMPONENTS REQUIRE DESIGN TO BE PROVIDED BY A QUALIFIED PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF THE PROJECT:

A. CONNECTION DESIGN FOR BRACED FRAMES, MOMENT FRAMES, COLLECTOR BEAMS AND TYPICAL SHEAR CONNECTIONS.

B. STRUCTURAL LIGHT GAUGE STEEL FRAMING CALCULATIONS AND DETAILS.

EXISTING CONSTRUCTION:

1. ALL DIMENSIONS AND ELEVATIONS TO EXISTING CONSTRUCTION ARE FOR REFERENCE ONLY. FIELD VERIFY DIMENSIONS AND ELEVATIONS PRIOR TO PREPARING SHOP DRAWINGS, FABRICATING MEMBERS (STRUCTURAL ITEMS), AND INSTALLATION.

2. DO NOT CUT ANY REINFORCING STEEL WHILE DRILLING INTO EXISTING CONCRETE.

3. PRIOR TO SUBMITTING ANY SHOP DRAWINGS, PROVIDE CERTIFICATION FROM LAND SURVEYOR REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED THAT DIMENSIONS BETWEEN NEW CONSTRUCTION AND EXISTING CONSTRUCTION HAVE BEEN SURVEYED AND FORWARDED TO SHOP DRAWING DETAILERS.

4. PRIOR TO PREPARING SHOP DRAWINGS, EXPOSE ALL FOUNDATIONS AND BUILDING FRAMING IN THE VICINITY OF NEW CONSTRUCTION AND SUBMIT LAYOUT TO ENGINEER OF RECORD.

5. NOTIFY STRUCTURAL ENGINEER OF ANY DISCREPANCIES OF EXISTING CONDITIONS WITH THE STRUCTURAL DRAWINGS.

MISCELLANEOUS:

1. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.

2. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.

3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.

4. OPENINGS 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.

5. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.

6. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.

7. UNLESS OTHERWISE NOTED, FIRE PROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE PROOFING METHODS AND MATERIALS.

8. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.

9. CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD. EXPANSION JOINTS SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED TO ACCOMMODATE ANTICIPATED THERMAL MOVEMENT AFTER THE BUILDING IS COMPLETE.

10. THE CONTRACTOR SHALL INFORM THE ARCHITECT IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS HE HAS SPECIFICALLY INFORMED THE ARCHITECT OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.

11. ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS, OR AMBIGUITIES, IN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. PLANS AND/OR SPECIFICATIONS WILL BE CORRECTED, OR WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGUITY WILL BE MADE BY THE ARCHITECT BEFORE THE AFFECTED WORK PROCEEDS.

12. CHECK ALL DIMENSIONS AGAINST REQUIREMENTS OF OTHER CONTRACT DOCUMENTS. FIELD VERIFY DIMENSIONS RELATING TO EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS AND FABRICATION.

13. WHERE DIMENSIONS OR WEIGHTS OF EQUIPMENT OR SYSTEMS ARE VARIABLE FROM MANUFACTURER TO MANUFACTURER, VERIFY DIMENSIONS AND WEIGHTS SHOWN ON DRAWINGS WITH SELECTED MANUFACTURER PRIOR TO ORDERING MATERIALS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES.

14. DO NOT PLACE EQUIPMENT WHEN SHIPPING OR OPERATING WEIGHT EXCEEDS WEIGHT INDICATED ON STRUCTURAL DRAWINGS.

15. NO MODIFICATION, ALTERATION OR REPAIR SHALL BE MADE WITHOUT PRIOR REVIEW BY STRUCTURAL ENGINEER. SUBMIT DETAILS AND CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN STATE WHERE PROJECT IS LOCATED AND EMPLOYED BY CONTRACTORS.

16. VERIFY ELEVATOR AND ESCALATOR PIT DIMENSIONS, LOCATIONS, LOADINGS AND DETAILS WITH SUPPLIERS PRIOR TO THE FABRICATION AND/OR INSTALLATION OF ANY MATERIAL.

SPECIAL INSPECTION:

THE FOLLOWING STRUCTURAL ELEMENTS OF CONSTRUCTION SHALL REQUIRE SPECIAL INSPECTION PER I.B.C. SECTION 1704. CONTRACTOR TO FURNISH INSPECTION UNLESS INSTRUCTED OTHERWISE BY THE CONSTRUCTION CONTRACT.

| TYPE OF CONSTRUCTION | IBC SECTION | IBC TABLE |
|------------------------------------|----------------------|----------------------------|
| INSPECTION OF FABRICATOR | 1704.2 | - |
| STEEL CONSTRUCTION | 1704.3 | 1704.3 |
| CONCRETE | 1704.4 | 1704.4 |
| SOILS | 1704.7 | 1704.7 |
| ADHESIVE ANCHORS SHALL BE INSPECTE | D PER THE REQUIREMEN | TS IN THEIR ICC-ES REPORTS |

MECHANICAL ANCHORS SHALL BE INSPECTED PER THE REQUIREMENTS IN THEIR ICC-ES REPORTS

NOTES:

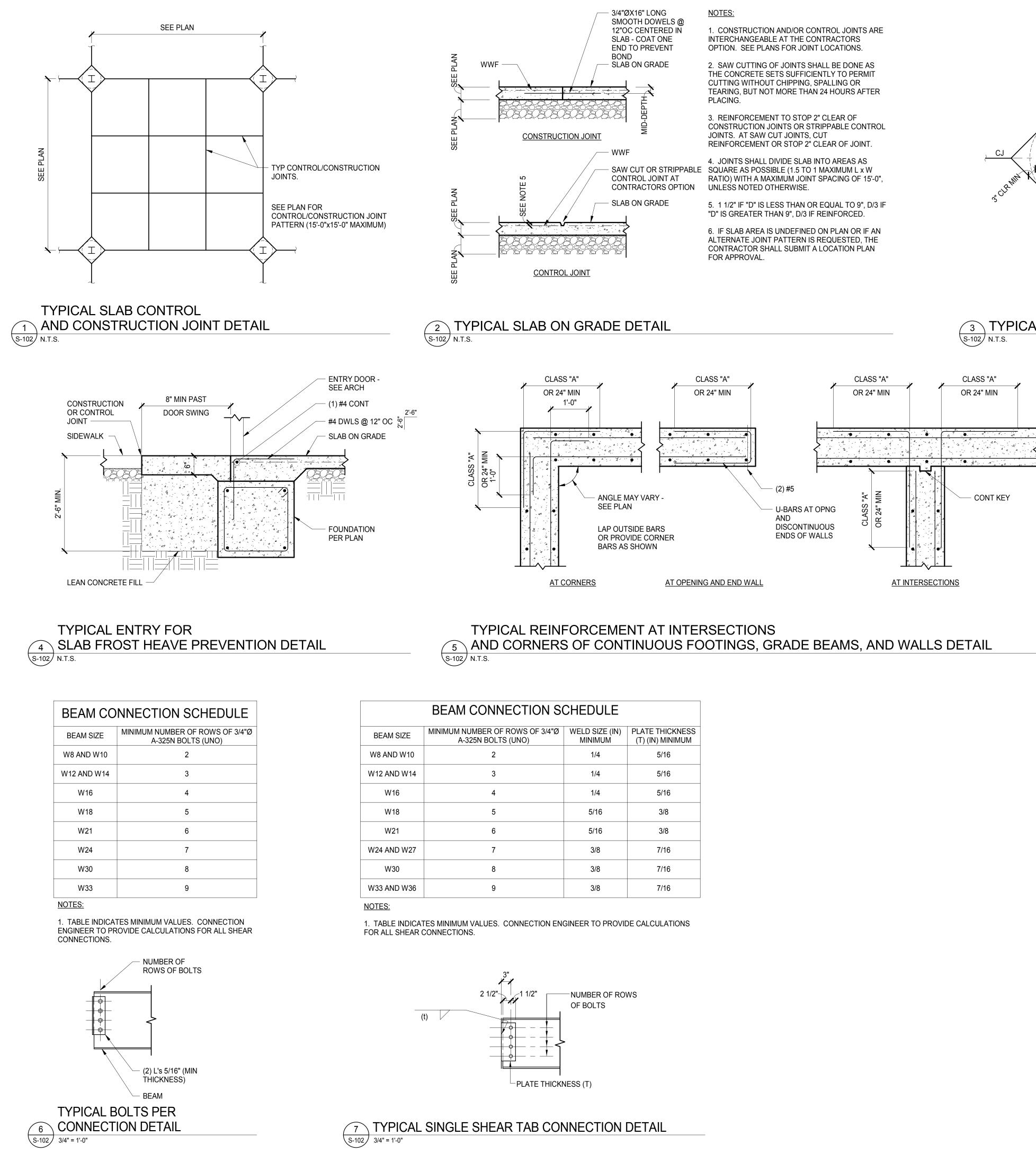
1. SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTION BY A CITY INSPECTOR. SPECIALLY INSPECTED WORK WHICH IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE CITY INSPECTOR IS SUBJECT TO REMOVAL OR EXPOSURE.

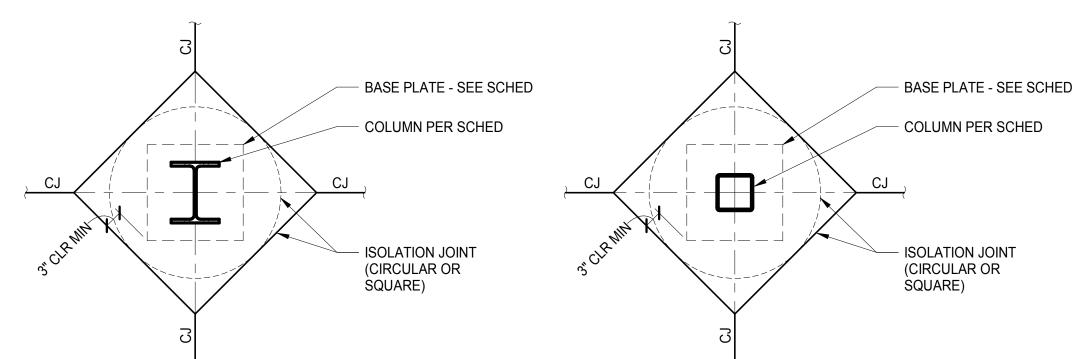
2. THE SPECIAL INSPECTORS MUST BE CERTIFIED BY THE CITY TO PERFORM THE TYPES OF INSPECTION SPECIFIED.

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION. ANY WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION IS SUBJECT TO REMOVAL.

4. SUBMIT WRITTEN REPORTS WITHIN TWO DAYS OF TESTING TO ENGINEER OF RECORD.



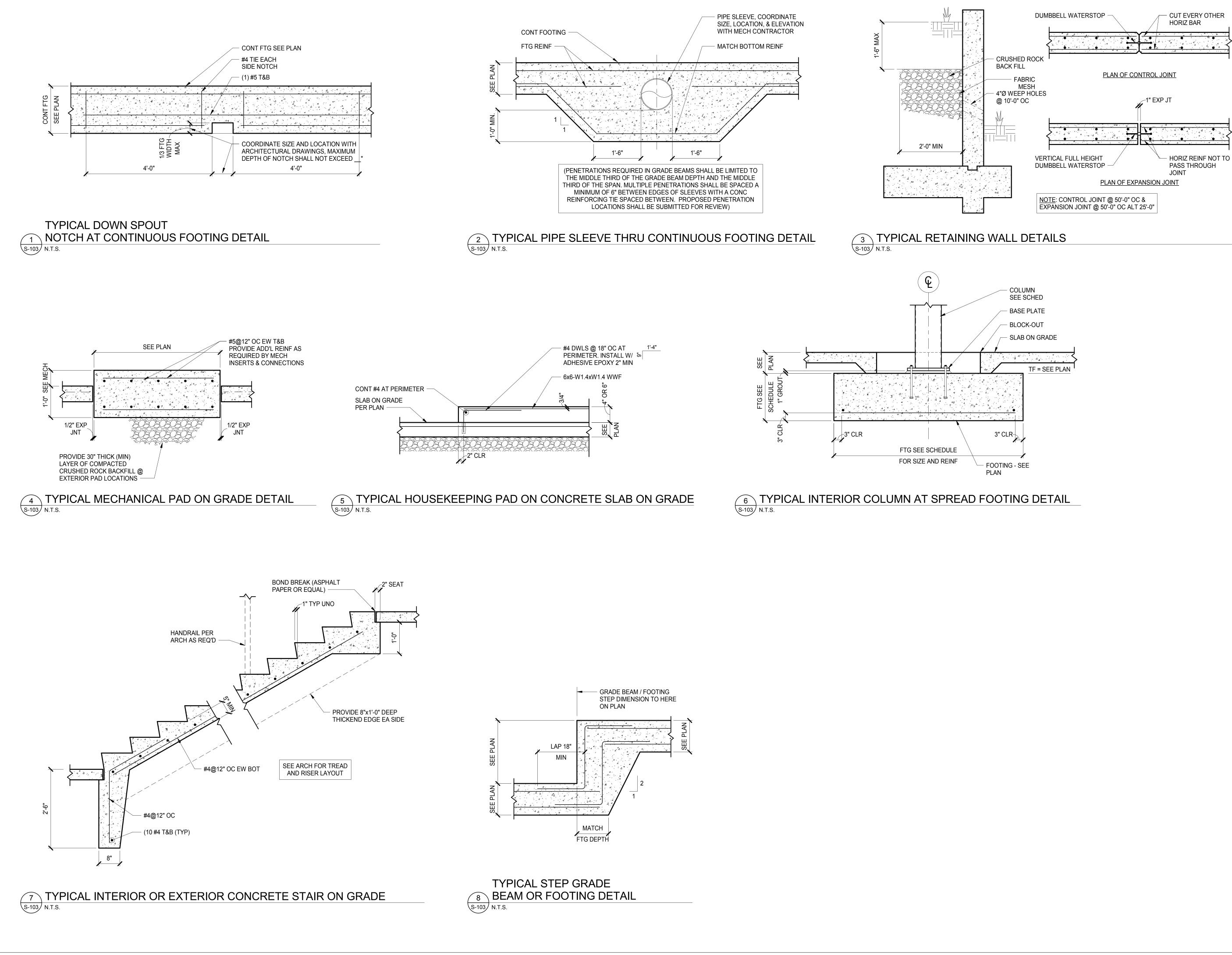


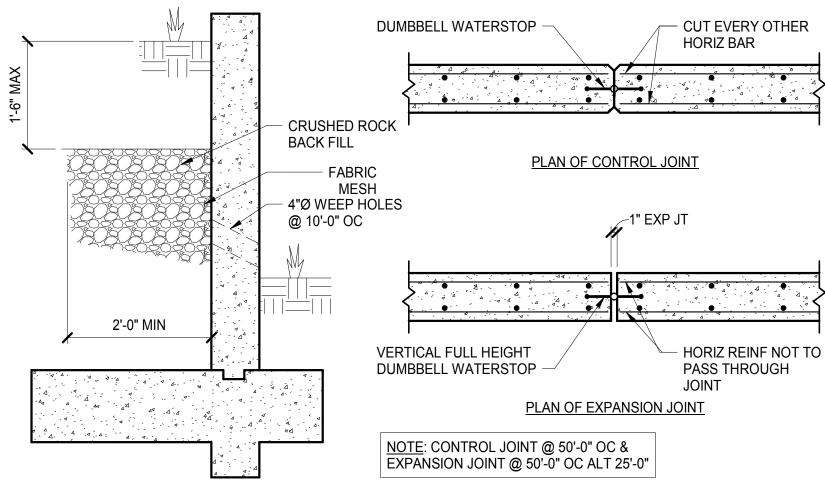


TYPICAL COLUMN ISOLATION JOINT DETAIL

| WELD SIZE (IN) MINIMUM | PLATE THICKNESS (T) (IN) MINIMUM |
|---------------------------|-------------------------------------|
| 1/4 | 5/16 |
| 1/4 | 5/16 |
| 1/4 | 5/16 |
| 5/16 | 3/8 |
| 5/16 | 3/8 |
| 3/8 | 7/16 |
| 3/8 | 7/16 |
| 3/8 | 7/16 |
| | |

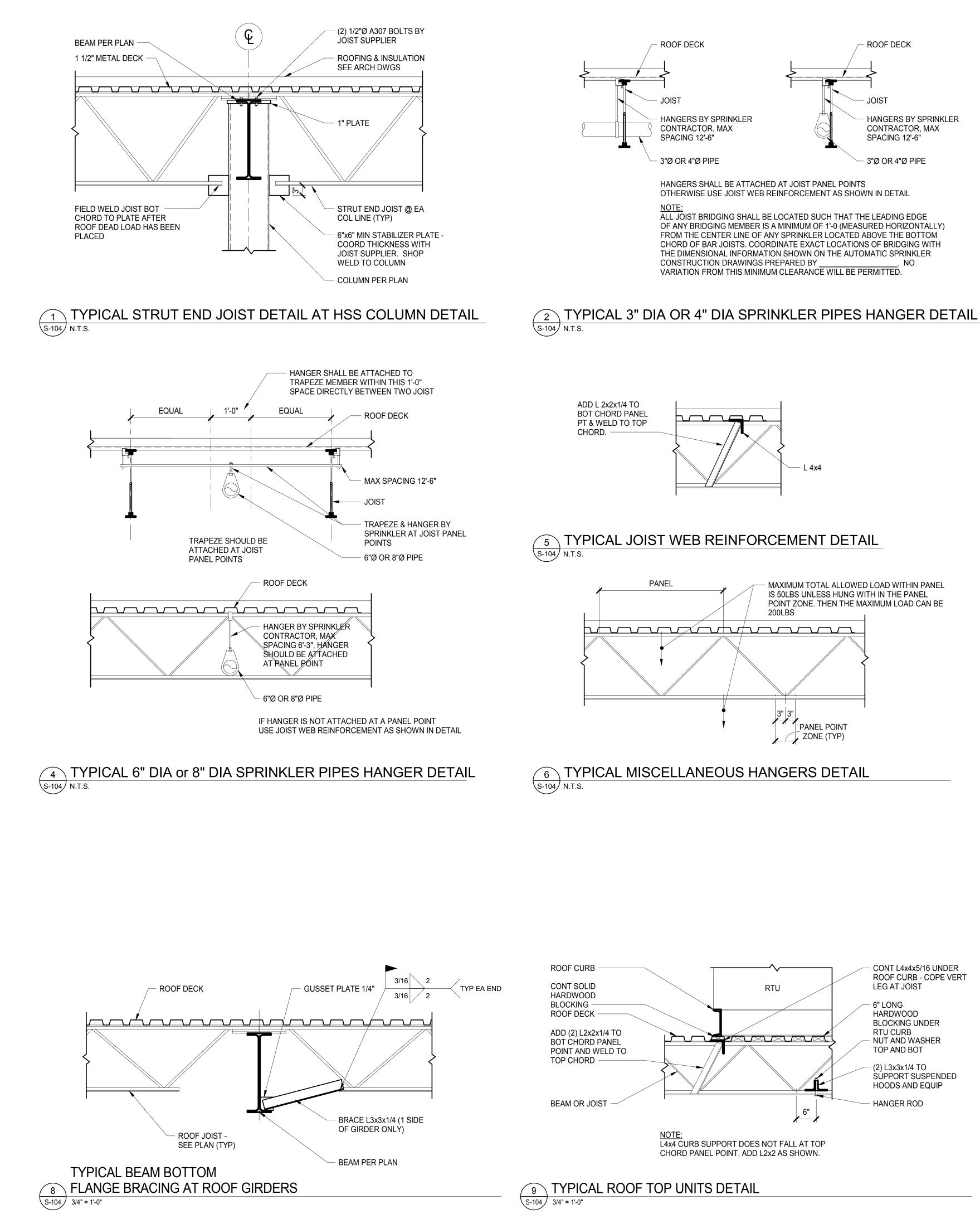
| read, e | xplore | | |
|---|--|--|--------|
| SCENIC REGIONAL LIBRARY | ST. CLAIR BRANCH | 515 E. SPRINGFIELD ROAD ST. CLAIR, MO 63077 | |
| | | SD ARCHIT | A A |
| T (314) 531-7400 CONTACT: SCOTT C E-MAIL: SCLARK@JE DESIGN ARCHITECT SAPP DESIGN ASSO 3750 SOUTH FREMC SPRINGFIELD, MO 6 T (417) 877-9696 CONTACT: JAMES S E: STUFFLEBEAM@S CONTACT: JAMES S E: STUFFLEBEAM@S CONTACT: DAVE VAI T (636) 584-0540 F (636) 584-0540 F (636) 584-0540 F (636) 584-0540 F (636) 584-0540 F (636) 584-0512 E-MAIL: DVANLEER@ STRUCTURAL ALPER AUDI, INC. 1804 BORMAN CIRC ST. LOUIS, MO 63140 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE EF E-MAIL: STEVE.EHRE MECHANICAL, ELEC BRIC PARTNERSHIP, 343 S. KIRKWOOD R KIRKWOOD, MO 6311 T (314) 725-5889 CONTACT: BRUCE C E: BCOLEMAN@BRID | EMASTL.CO CIATES AF DNT 5804 TUFFLEBE SDAARCHI NCE DRIVE DAARCHI NCE DRIVE DAARCHI NCE DRIVE DAARCHI ETT@ALPE TRICAL, PI LLC OAD, SUIT 22 COLEMAN CPARTNEF | AM TECTS.COM E N.COM RAUDI.COM LUMBING E 204 | |
| MO STRUCTU MO CERTIFICAT | E OF AUTI | NSE E-29025 | |
| DRAWN BY: Aut PROJECT NUMBER: | | 22 | |

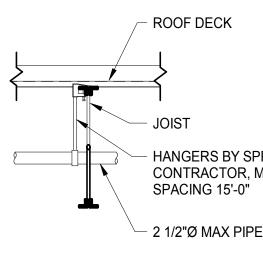


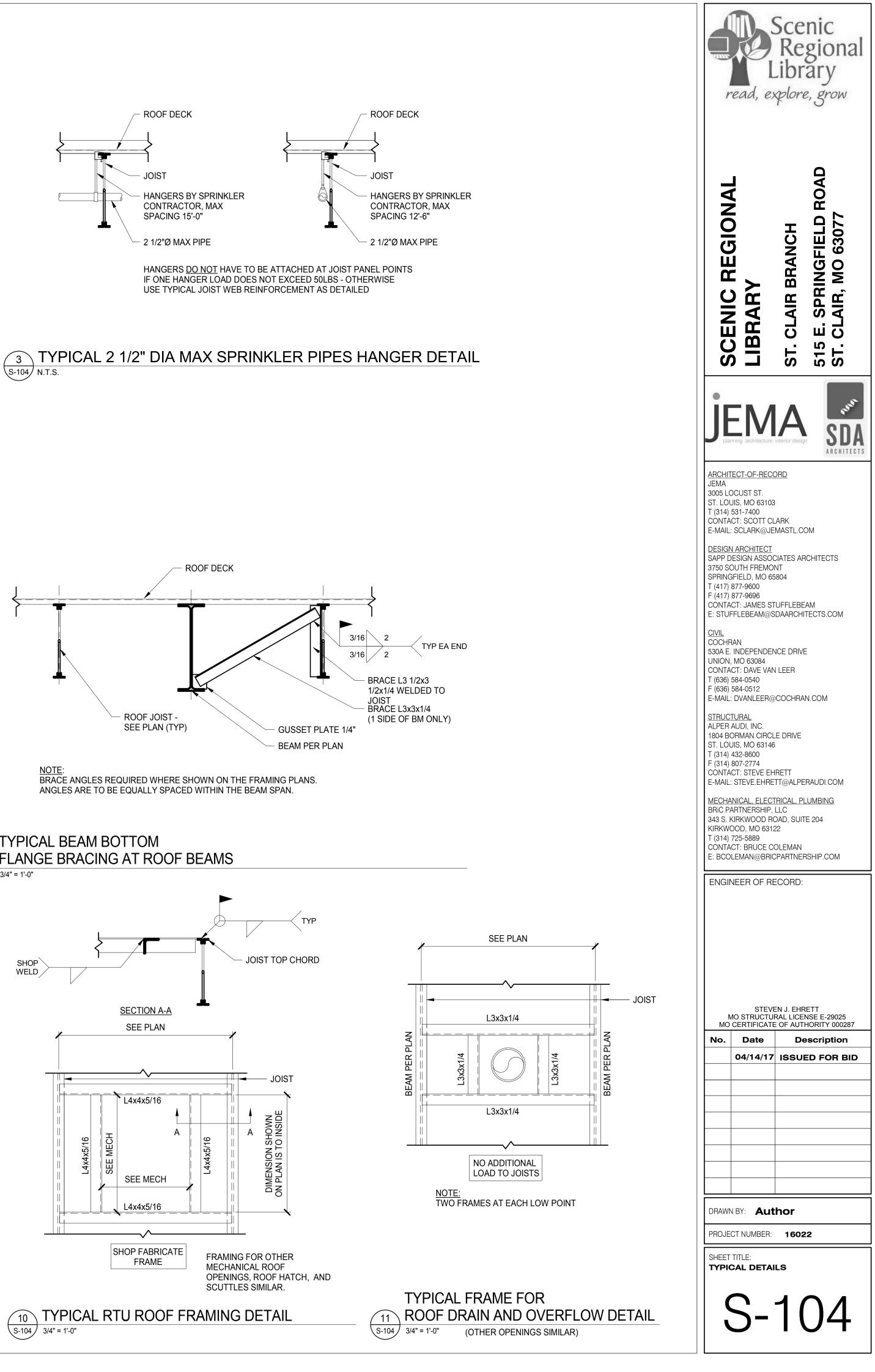


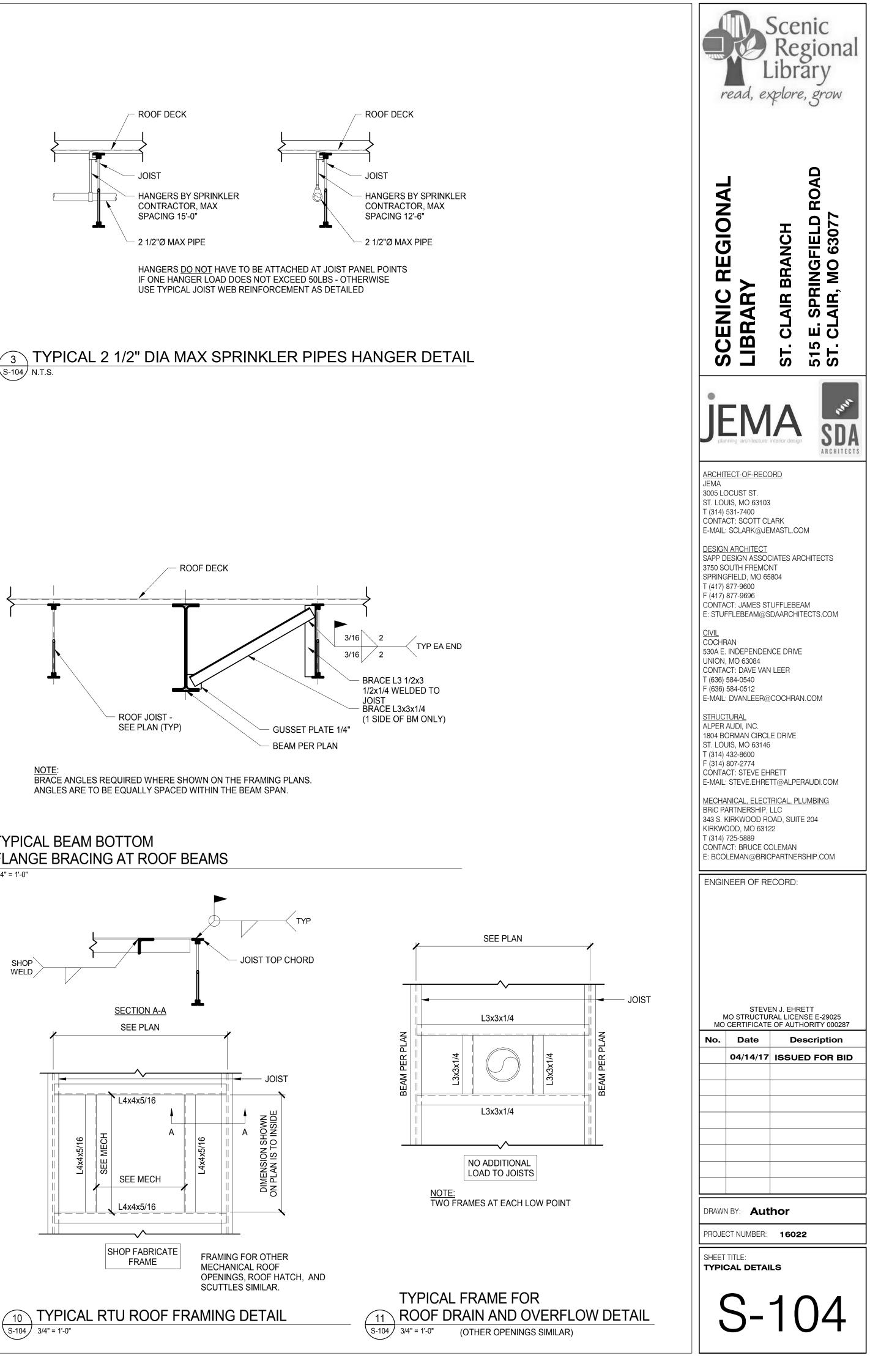


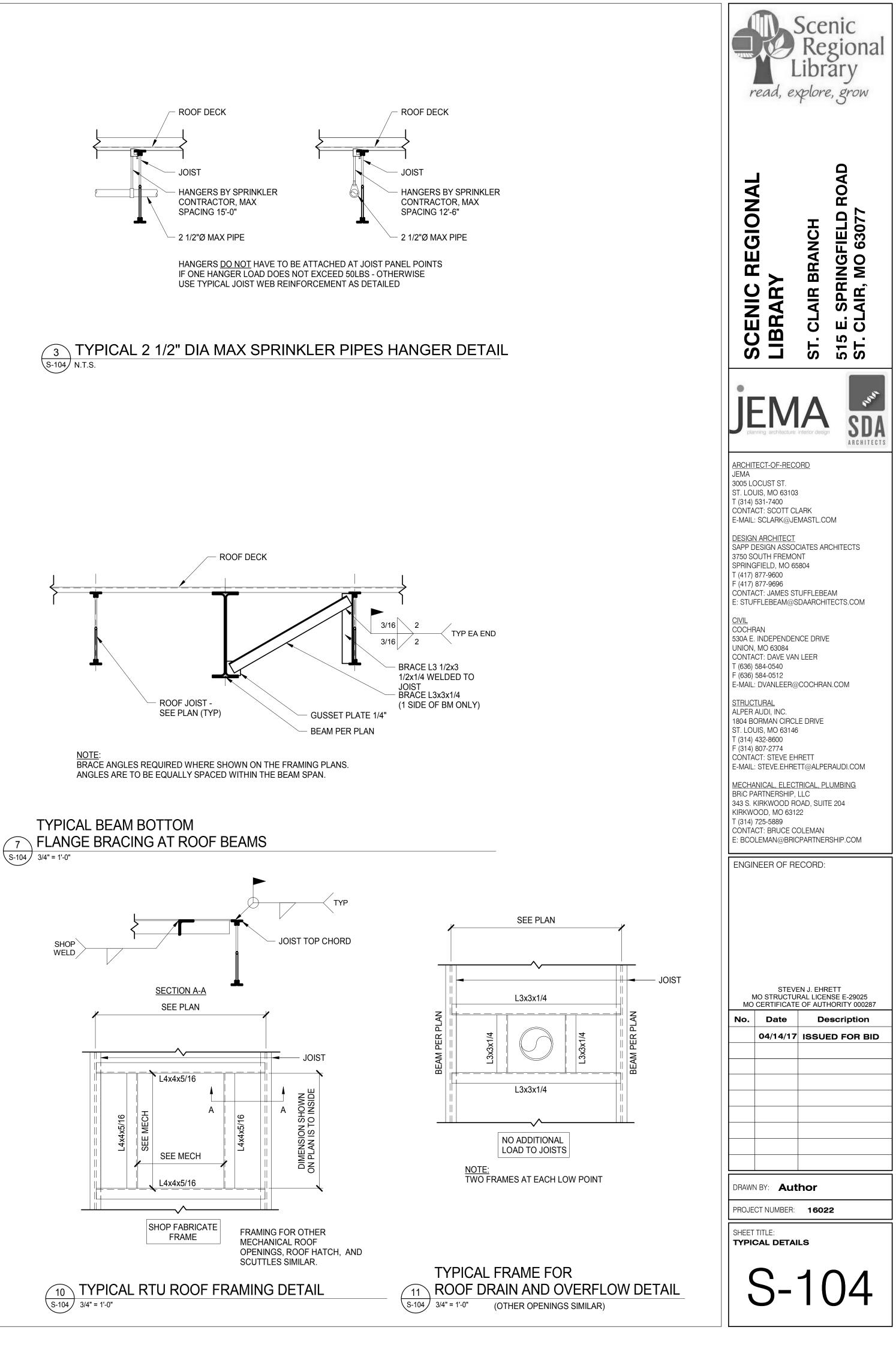
| Scenic Regional Library read, explore, grow |
|---|
| SCENIC REGIONAL LIBRARY ST. CLAIR BRANCH 515 E. SPRINGFIELD ROAD ST. CLAIR, MO 63077 |
| JEMAA planning architecture interior design |
| ARCHITECT-OF-RECORD JEMA 3005 LOCUST ST. ST. LOUIS, MO 63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAIL: SCLARK@JEMASTL.COM DESIGN ARCHITECT SAPP DESIGN ASSOCIATES ARCHITECTS 3750 SOUTH FREMONT SPRINGFIELD, MO 65804 T (417) 877-9696 CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHITECTS.COM CIVIL COCHRAN 530A E. INDEPENDENCE DRIVE UNION, MO 63084 CONTACT: DAVE VAN LEER T (636) 584-0512 E-MAIL: DVANLEER@COCHRAN.COM STRUCTURAL ALPER AUDI, INC. 1804 BORMAN CIRCLE DRIVE ST. LOUIS, MO 63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE EHRETT E-MAIL: STEVE.EHRETT@ALPERAUDI.COM MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTNERSHIP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO 63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BCOLEMAN@BRICPARTNERSHIP.COM |
| STEVEN J. EHRETT MO STRUCTURAL LICENSE E-29025 MO CERTIFICATE OF AUTHORITY 000287 No. Date Description 04/14/17 ISSUED FOR BID ISSUED FOR BID I I ISSUED FOR BID |
| DRAWN BY: Author PROJECT NUMBER: 16022 SHEET TITLE: TYPICAL DETAILS |
| S-103 |

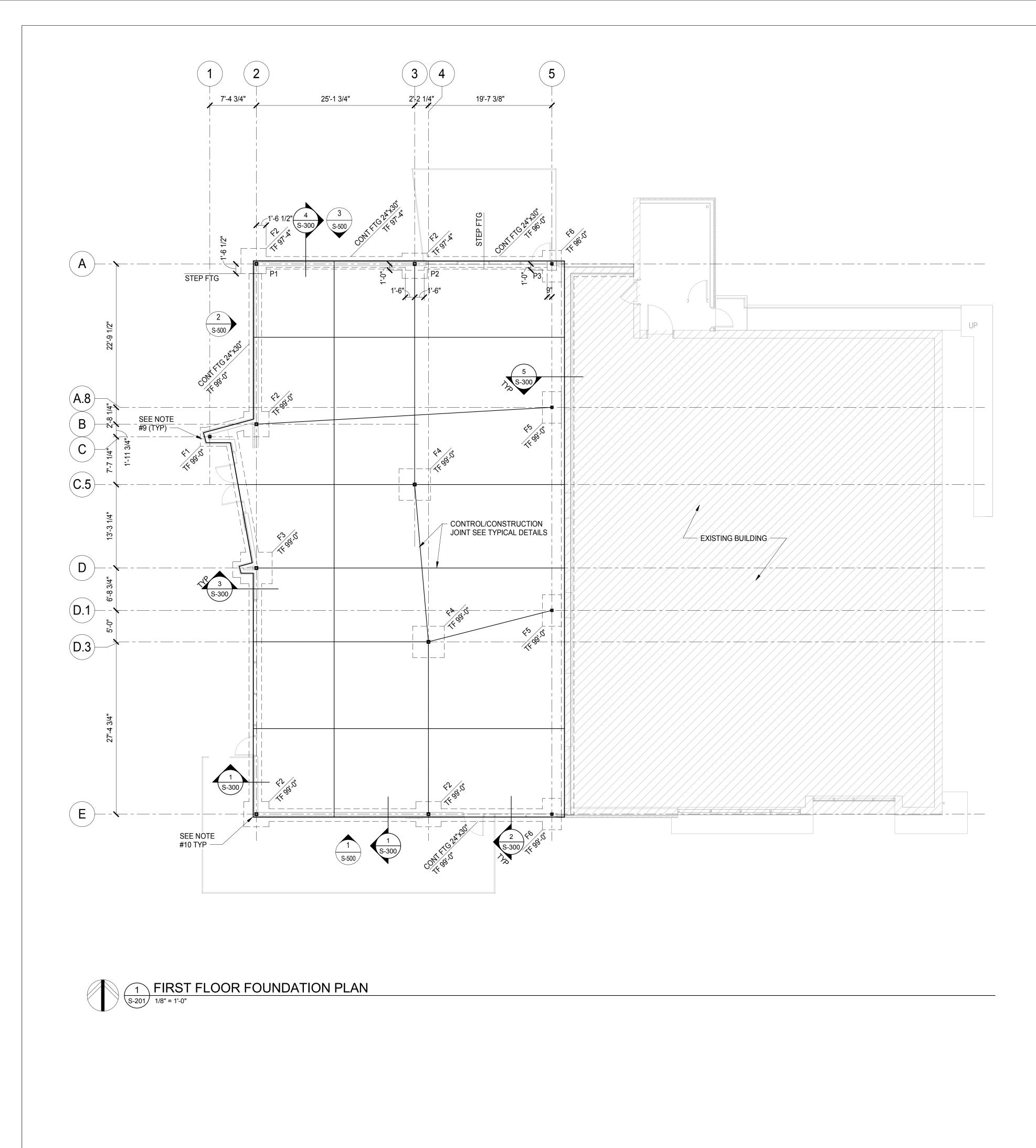












| MARK |
|------|
| F1 |
| F2 |
| F3 |
| F4 |
| F5 |
| F6 |

| | | REINFORCIN | | |
|------|----------------|------------|-----------|---------|
| MARK | EFFECTIVE SIZE | VERTICAL | TIES | REMARKS |
| P1 | 24"x24" | (8) #6 | #4 @6" OC | TYPE A |
| P2 | 17 1/2"x36" | (8) #6 | #4 @6" OC | TYPE A |
| P3 | 17 1/2"x18" | (4) #6 | #4 @6" OC | TYPE B |

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<u>TYPE A</u>

FOUNDATION NOTES:

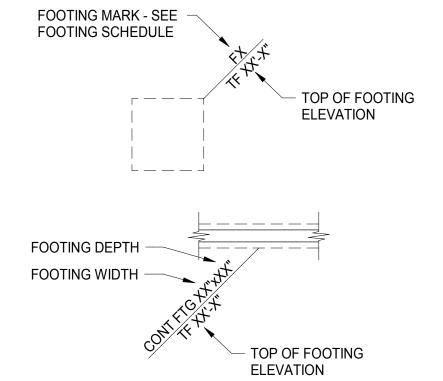
- 1. SEE SHEET SERIES S-100 FOR GENERAL NOTES AND TYPICAL DETAILS.
- 2. SEE SHEET SERIES S-500 FOR VERTICAL BRACING ELEVATIONS AND DETAILS.
- 3. SEE SHEET SERIES S-600 FOR COLUMN SCHEDULE AND BASE PLATE DETAILS.
- 4. FINISH FLOOR ELEVATION = 100'-0" (U.S.G.S. DATUM = 781.26).

5. SLAB CONSTRUCTION: 4" NORMAL WEIGHT CONCRETE SLAB ON GRADE ON 10 MIL VAPOR RETARDER ON 6" MINIMUM COMPACTED GRANULAR FILL. REINFORCE SLAB WITH ONE LAYER 6x6-W2.1xW2.1 WWF CENTERED IN SLAB.

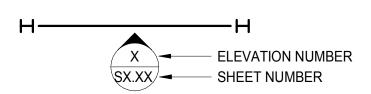
- 6. "TF" NOTED ON PLAN INDICATES TOP OF FOOTING ELEVATION.
- 7. "TC" NOTED ON PLAN INDICATES TOP OF CONCRETE ELEVATION.
- 8. "TW" NOTED ON PLAN INDICATES TOP OF WALL ELEVATION.

9. EXTEND FOOTING AND SLAB FOR WALL FRAMING. REINF EXTENSION W/ #5@12" OC T&B.

10. PROVIDE CORNER BARS TO MATCH SLAB AND FOOTING REINFORCEMENT. LAP CONTINUOUS #4 SLAB BAR @ OUTSIDE CORNER OF COLUMN. PROVIDE ASPHALTIC COATING TO ALL EXPOSED BASE PLATES BELOW GRADE.



TYPICAL FOOTING DESIGNATION

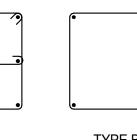


TYPICAL BRACING DESIGNATION

FOOTING SCHEDULE

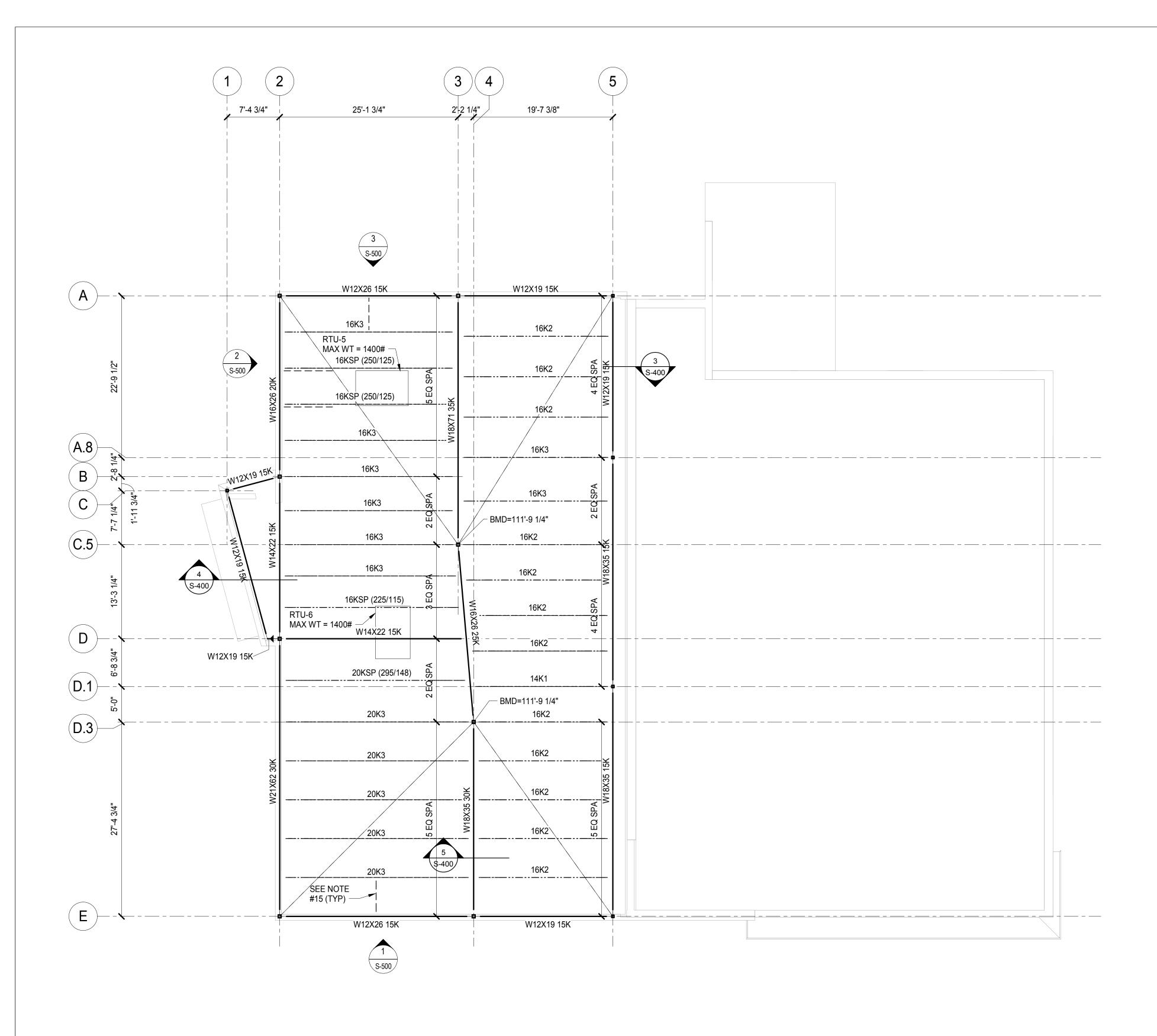
| C | SIZE | REINFORCING EACH WAY TOP & BOTTOM UNO | REMARKS |
|---|-------------------|--|--|
| | 3'-0"x3'-0"x2'-6" | (4) #5 EW | |
| | 4'-0"x4'-0"x2'-6" | (5) #5 EW | |
| | 5'-0"x5'-0"x2'-6" | (5) #5 EW | |
| | 5'-0"x5'-0"x1'-3" | (6) #5 EW | |
| | 5'-0"x3'-0"x1'-3" | (4) #5 x 4'-6" & (6) #5 x 2'-6" | PROVIDE LEAN CONCRETE BELOW AS REQ'D TO MATCH EXIST B/FTG |
| | 5'-0"x3'-0"x2'-6" | (4) #5 x 4'-6" & (6) #5 x 2'-6" | PROVIDE LEAN CONCRETE BELOW AS REQ'D TO MATCH EXIST B/FTG |

PILASTER SCHEDULE



<u>TYPE B</u>

| Scenic Regional Library read, explore, grow |
|--|
| SCENIC REGIONAL LIBRARY ST. CLAIR BRANCH 515 E. SPRINGFIELD ROAD ST. CLAIR, MO 63077 |
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| STEVEN J. EHRETT MO STRUCTURAL LICENSE E-29025 MO CERTIFICATE OF AUTHORITY 000287 No. Date Description 04/14/17 ISSUED FOR BID |
| |
| |
| DRAWN BY: TRN PROJECT NUMBER: 16022 |
| SHEET TITLE: FIRST FLOOR FOUNDATION PLAN |
| S-201 |



1 ROOF FRAMING PLAN

S-202 1/8" = 1'-0"

FRAMING NOTES:

- 1. SEE SHEET SERIES S-100 FOR GENERAL NOTES AND TYPICAL DETAILS.
- 2. SEE SHEET SERIES S-500 FOR VERTICAL BRACING ELEVATIONS AND DETAILS.
- 3. SEE SHEET SERIES S-600 FOR COLUMN SCHEDULE AND BASE PLATE DETAILS.
- 4. SEE TYPICAL BEAM DESIGNATION FOR MOMENT CONNECTION SYMBOL.
- 5. SEE TYPICAL VERTICAL BRACING DESIGNATION FOR BRACING SYMBOL.
- 6. BOTTOM OF METAL DECK ELEVATION = 112'-6" (UNO)

7. ROOF CONSTRUCTION: 1 1/2" x 20 GAUGE WIDE RIB PAINTED METAL DECK OVER STEEL FRAMING. WELD METAL DECK TO ALL SUPPORTING STEEL WITH 5/8" DIA PUDDLE WELDS IN A 36/7 PATTERN. SIDE LAP OF METAL DECK TO BE ATTACHED WITH (3) #10 SELF-DRILLING SCREWS FOR SPANS MORE THAN 3'-0" LONG. EDGE WELDS OF METAL DECK TO BE @ 6"OC MAXIMUM (UNO).

8. DESIGN ROOF JOISTS FOR A NET UPLIFT OF 18 PSF OVER ENTIRE ROOF AND A NET WIND UPLIFT OF 20 PSF OVER A 5'-0" WIDE STRIP AROUND PERIMETER.

9. BEAM CONNECTIONS SHALL BE DESIGNED TO TRANSFER AXIAL LOADS NOTED "P=__K" ON PLAN.

10. STRUT JOIST TO OCCUR ON ALL COLUMN CENTER LINES UNLESS NOTED OTHERWISE. SEE TYPICAL DETAILS.

11. PROVIDE HORIZONTAL JOIST BRIDGING SPACED PER LATEST S.J.I. (UNO).

12. COORDINATE FINAL ROOF TOP MECHANICAL LOCATIONS, SIZES, AND WEIGHTS WITH STRUCTURAL ENGINEER BEFORE FABRICATION OF ROOF MEMBERS. SEE TYPICAL DETAILS.

13. MECHANICAL UNITS SHOWN ON PLAN WITHOUT WEIGHTS, WEIGH LESS THAN 250 LBS., PROVIDE ANGLE FRAME PER TYPICAL DETAILS.

14. "BMD" NOTED ON PLAN INDICATES BOTTOM OF METAL DECK ELEVATION.

15. SEE TYPICAL DETAILS, SHEET S-104, FOR BEAM BRACING DETAILS.

NUMBER OF SHEAR BEAM CAMBER CONNECTORS - BEAM REACTION BEAM SIZE EACH END W24X55 [45] C=1 1/2" 25K H► - MOMENT

TYPICAL BEAM DESIGNATION

- ELEVATION NUMBER

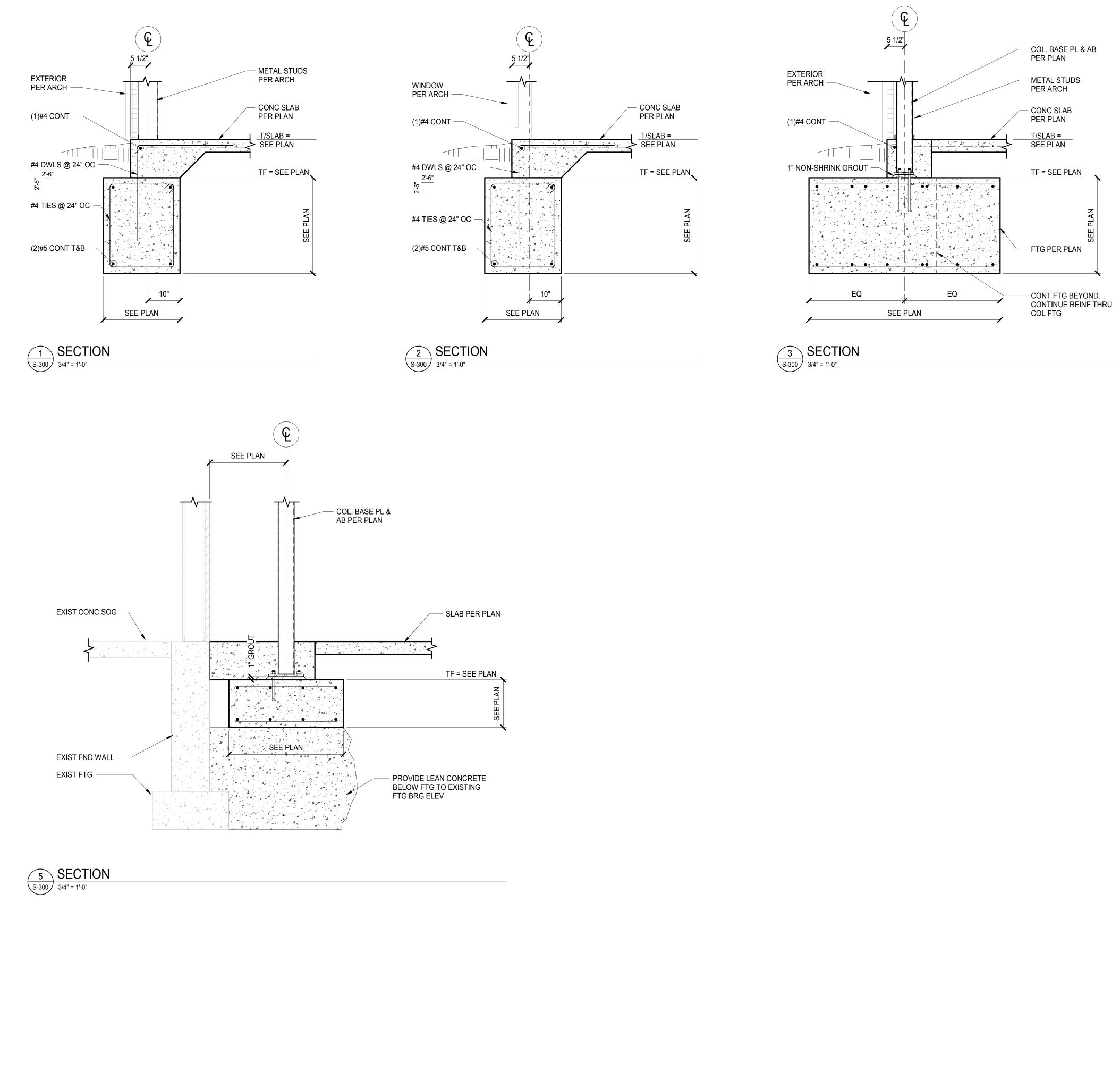
CONNECTION

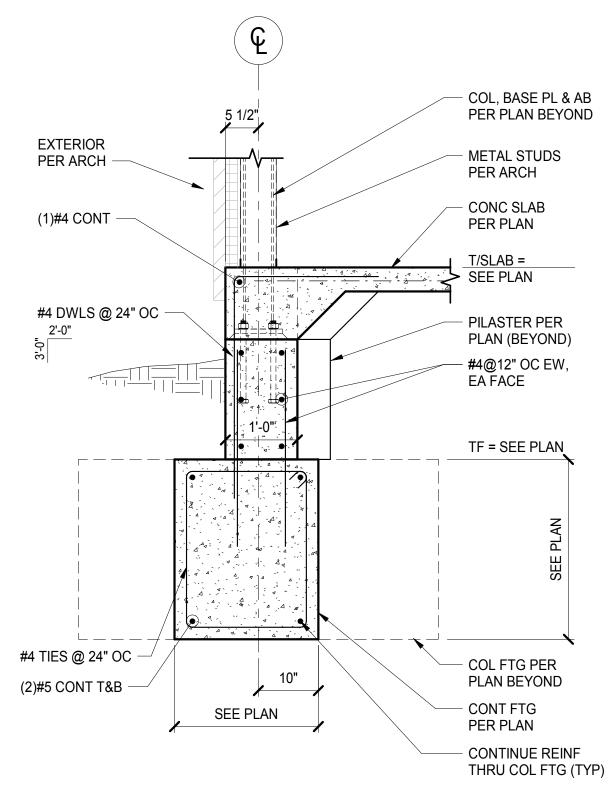
TYPICAL BRACING DESIGNATION

NON-UNIFORM LEAD UNIFORM TL DESIGN REQUIRED JOIST DEPTH 28K SP (250/150)

TYPICAL JOIST DESIGNATION

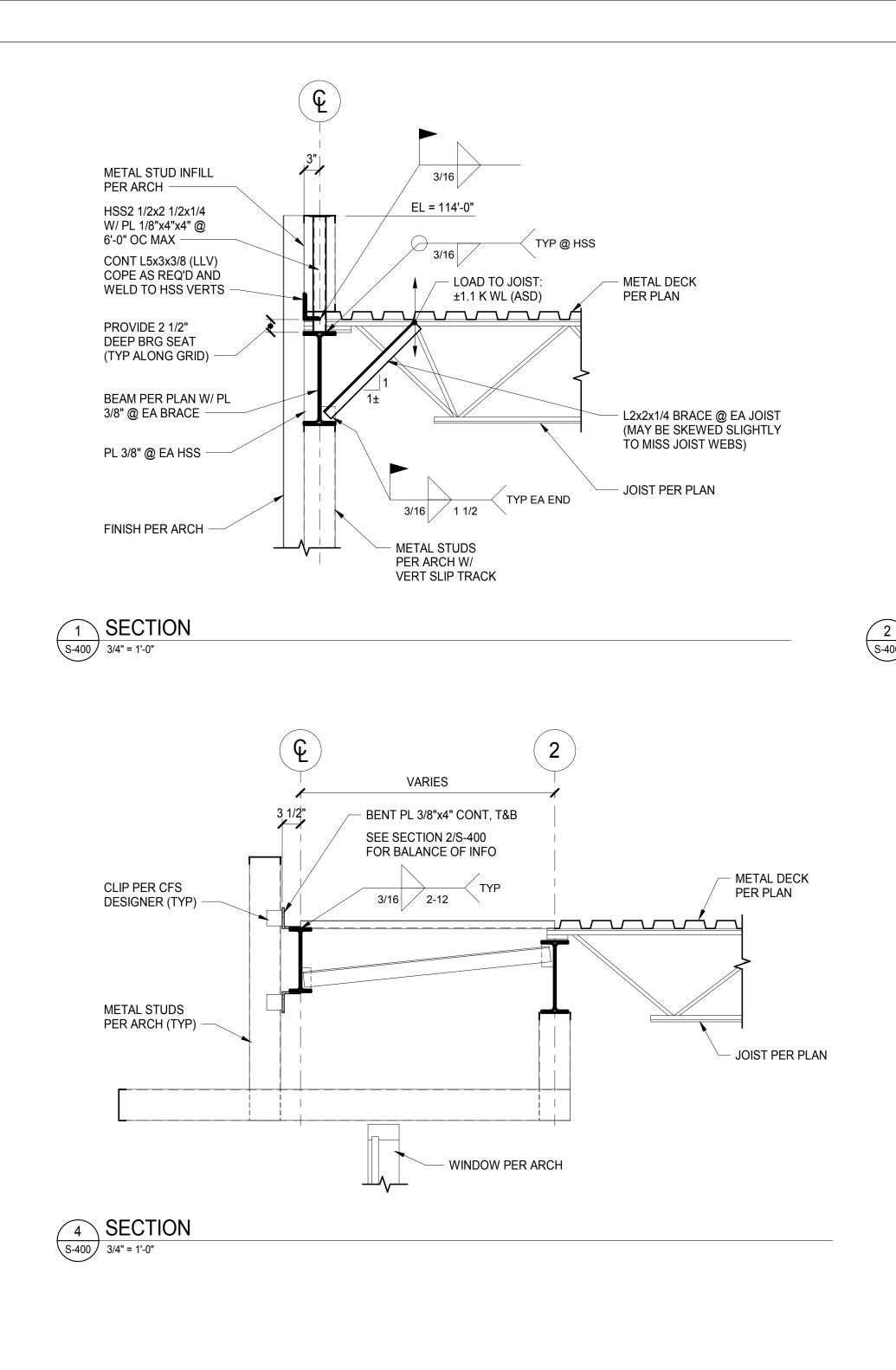


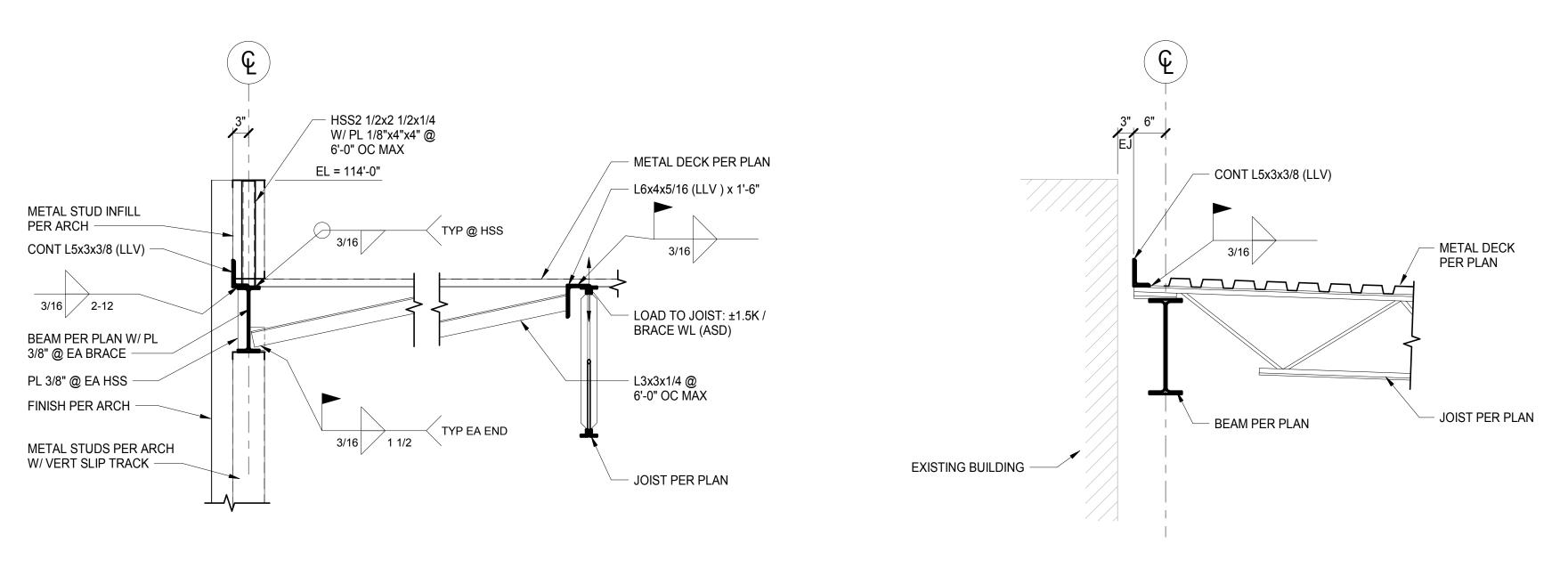


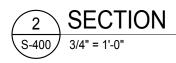


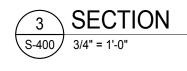
4 SECTION S-300 3/4" = 1'-0"

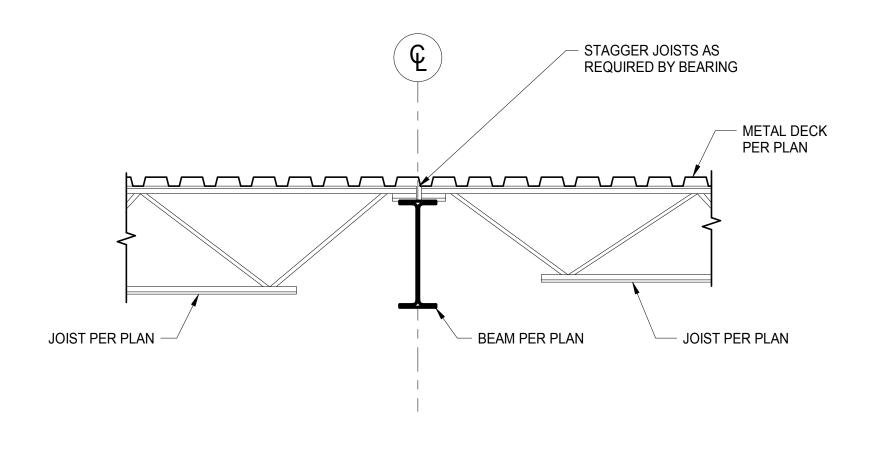


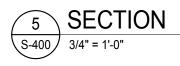




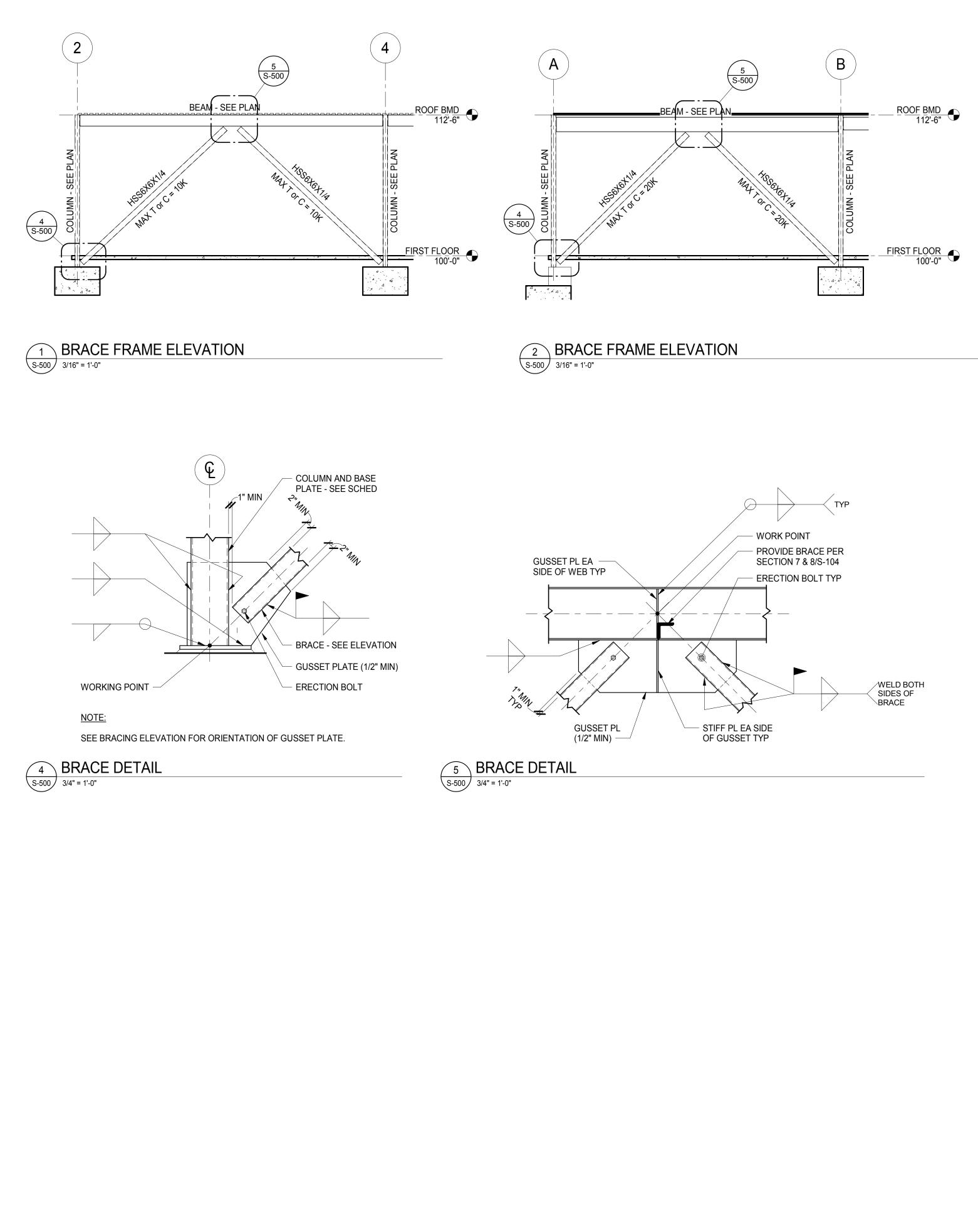


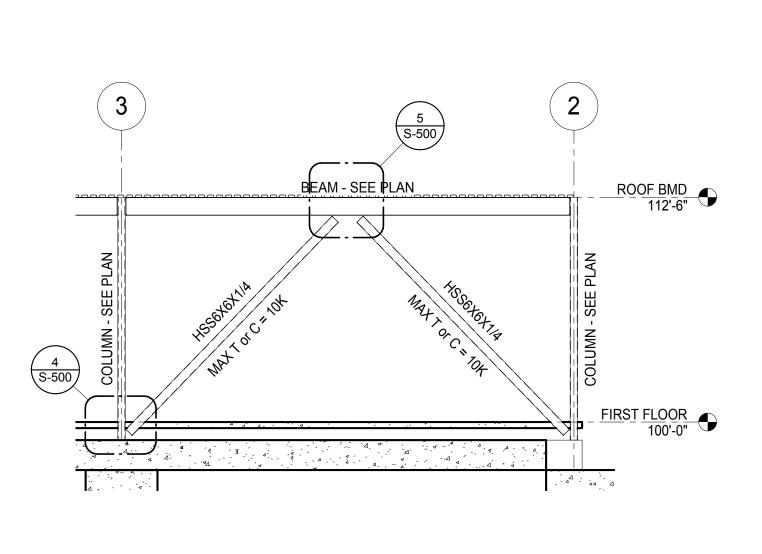




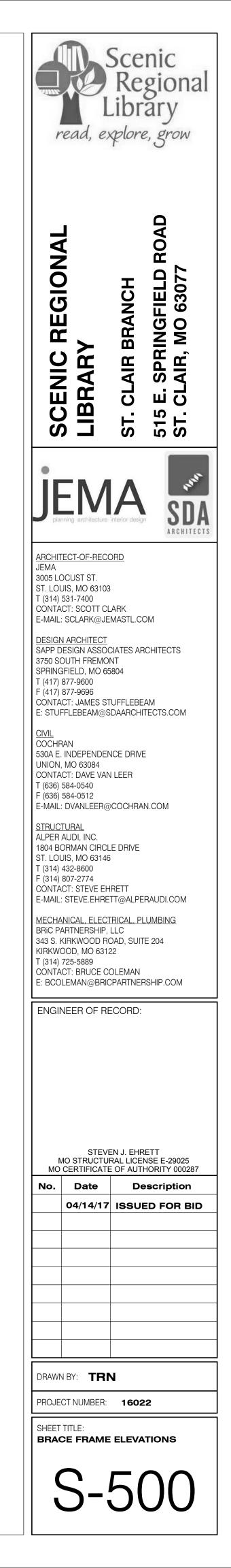


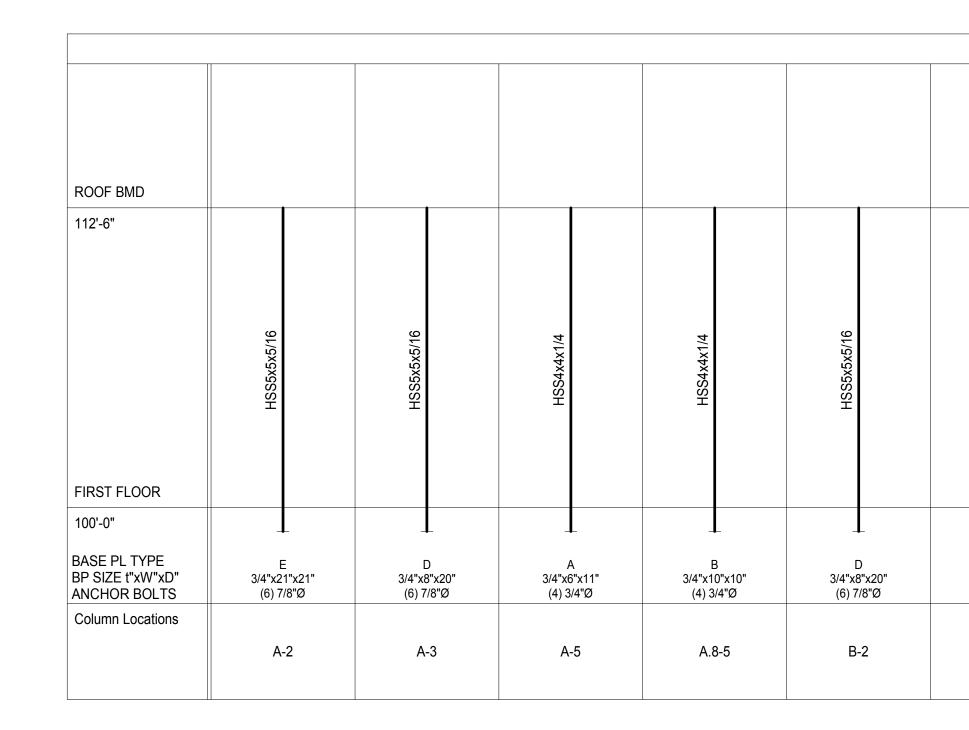
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| MO STRUCTU MO CERTIFICAT | | ISE E-29025 |

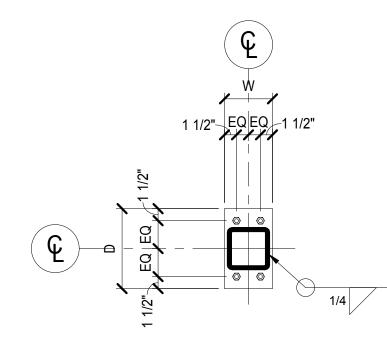


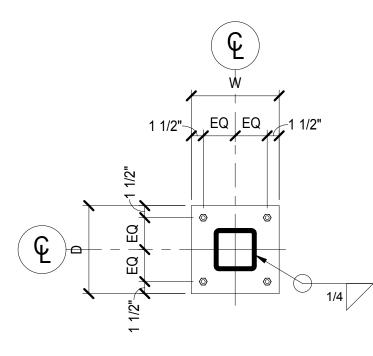


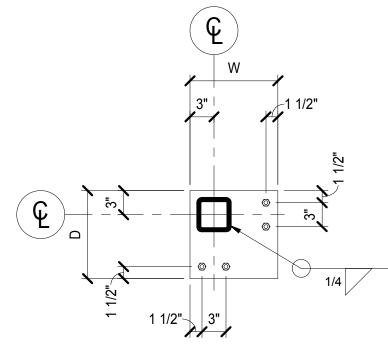






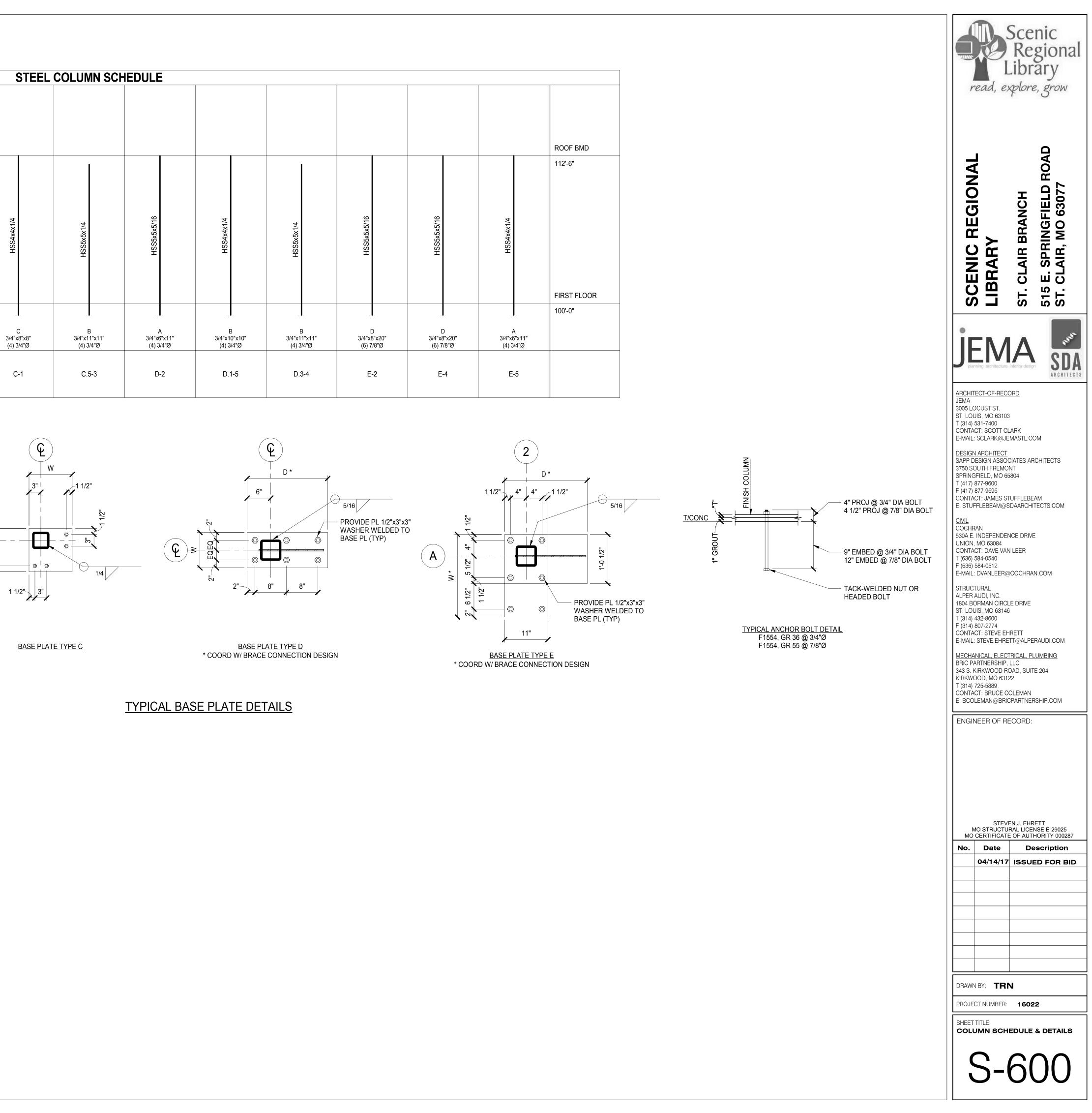


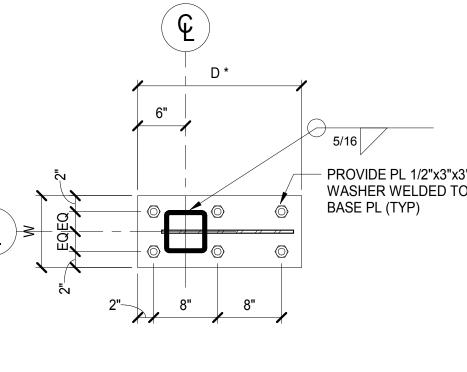


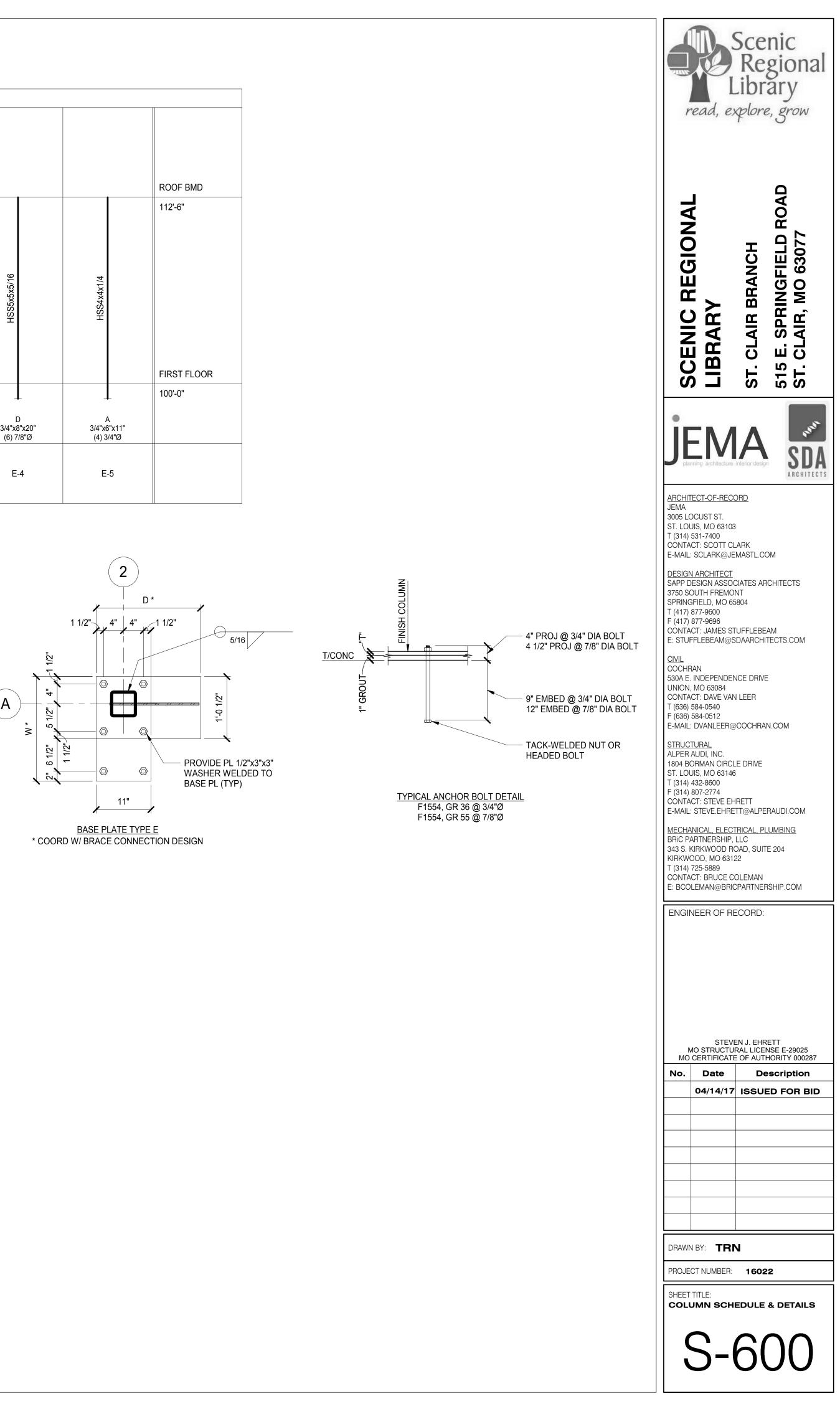


BASE PLATE TYPE A

BASE PLATE TYPE B







GENERAL NOTES

- 1. THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THEY REFLECT ONLY THE AVAILABLE INFORMATION OBTAINED FROM EXISTING PLANS, SPECIFICATIONS, AND FIELD SURVEYS. THE EXACT LOCATION OF EXISTING DUCTWORK, PIPING, AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL BE PREPARED TO MAKE SOME ALTERATIONS TO NEW AND/OR EXISTING SERVICES TO FIT ACTUAL JOB CONDITIONS.
- 2. THE SPACE ALLOWED FOR MECHANICAL (HVAC, PLUMBING, FIRE PROTECTION) AND ELECTRICAL WORK ABOVE THE SUSPENDED CEILING IS CRITICAL AND REQUIRES COORDINATION BETWEEN TRADES. CONTRACTORS SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS PRIOR TO FABRICATION OR INSTALLATION OF ANY MATERIALS. DUCTWORK SHALL BE HUNG AS CLOSE AS POSSIBLE TO THE STRUCTURE ABOVE UNLESS INDICATED OTHERWISE. REWORK OF PIPING, DUCTWORK, EQUIPMENT LOCATION, CONDUIT, ETC. AS A RESULT OF POOR PLANNING, COORDINATION, OR SCHEDULING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 3. ANY HOLES LEFT IN EXISTING WALL CONSTRUCTION DUE TO DEMOLITION OR NEW WORK SHALL BE PATCHED TO MATCH EXISTING CONDITIONS.
- 4. PIPES/DUCTS/ETC. PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE SEALED WEATHER PROOF.
- 5. CONTRACTOR TO FIRESTOP ALL PENETRATIONS THROUGH FIRE-RATED FLOORS AND WALLS CREATED BY DEMOLITION OR NEW WORK WITH "SPECSEAL SSS" OR EQUAL.
- 6. PROVIDE OPENING IN DRY WALL ABOVE CEILING TO ALLOW SUPPLY AIR TO RETURN TO HEAT PUMPS OR AIR HANDLERS.
- REFRIGERANT PIPING TO BE SIZED BY EQUIPMENT MANUFACTURER AND INSTALLED PER THE MANUFACTURER'S INSTALLER'S GUIDE. CONTRACTOR TO SUBMIT DRAWINGS SHOWING ROUTING. SEE SPECIFICATIONS.
- 8. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE MOUNTED AT 48" A.F.F. TO THE TOP OF THERMOSTAT UNLESS NOTED OTHERWISE. DO NOT MOUNT IN DIRECT SUNLIGHT OR NEAR HEAT PRODUCING EQUIPMENT.
- 9. INSTALL H.V.A.C. SYSTEM IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ANY FRAMING REVISIONS, EQUIPMENT LOCATIONS, ADDITION OF CONTROLS, ELECTRICAL CIRCUITING REVISIONS, ETC. THAT RESULT FROM USING EQUIPMENT OTHER THAN INDICATED ON THE DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER WILL NOT WAIVE THE CONTRACTOR OF THIS RESPONSIBILITY.
- 11. THE CONTRACTOR SHALL HAVE THE FINAL RESPONSIBILITY FOR SYSTEM START UP AND TURN OVER TO THE OWNER.
- 12. ALL ITEMS INCLUDED ON THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE INCLUDED IN THE CONTRACTOR'S BID. IF THE CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS OR IS NOT SURE OF THEIR MEANING. THE CONTRACTOR SHOULD OBTAIN THE ENGINEER'S WRITTEN EXPLANATION AND INTERPRETATION PRIOR TO BID TIME. THE CONTRACTOR WILL BE HELD TO THE INTERPRETATION OF THE ENGINEER.
- 13. FIRE CAULK ALL PENETRATIONS THRU FIRE RATED PARTITIONS TO MAINTAIN FIRE RATING OF PARTITION.
- 14. CAULK ALL PENETRATIONS THRU WALLS TO MINIMIZE SOUND PENETRATION THRU WALLS.
- 15. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL TEMPERATURE CONTROL SYSTEM REQUIREMENTS.
- 16. ROUTE LINE SIZE PVC CONDENSATE DRAIN PIPING FROM AIR HANDLING UNIT TO NEAREST FLOOR DRAIN. PROVIDE TRAP AT CONNECTION TO AIR HANDLING UNIT.
- 17. ANY DAMAGE TO THE SITE (SIDEWALKS, CURBS, ETC) OR TO THE BUILDING AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT SHALL BE FIXED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER
- 18. CONTRACTOR WILL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF ROOFS/WALLS/FLOORS AND CORE DRILLS REQUIRED TO COMPLETE THEIR RESPECTIVE WORK.
- 19. THE OWNER SHALL HAVE FIRST SALVAGE RIGHTS OF EQUIPMENT AND MATERIALS REMOVED. ALL EQUIPMENT AND MATERIALS NOT CLAIMED BY THE OWNER SHALL BE REMOVED FROM THE PREMISES BY THE CONTRACTORS.
- 20. REMOVE AND DISPOSE OF REFRIGERANT IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
- 21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY TEMPORARY FENCING AROUND THE LIFT SITE DURING LIFTS.
- 22. ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, ETC. THAT SERVES SPACES ON OTHER FLOORS SHALL REMAIN AS IS. DO NOT DISCONNECT OR REMOVE ANY EQUIPMENT NOT SHOWN IN THESE PLANS.
- 23. REMOVE AND RE-INSTALL EXISTING LAY-IN CEILING AS REQUIRED TO COMPLETE ALL DEMOLITION AND NEW WORK. REPLACE CEILING TILES DAMAGED DURING CONSTRUCTION WITH NEW TILES MATCHING EXISTING.

GENERAL NOTES (AIR SIDE)

- 1. NOTE, ALL DUCTWORK OFFSETS ARE NOT SHOWN. THE CON SHALL MODIFY DUCTS AND OFFSETS TO COORDINATE WITH BUILDING STRUCTURE AND ALL TRADE REQUIREMENTS.
- 2. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PE LATEST VERSION OF THE S.M.A.C.N.A. H.V.A.C. DUCT CONSTR STANDARDS, UNLESS SPECIFIED MORE STRINGENTLY IN THE CONSTRUCTION DOCUMENTS, MINIMUM DUCT GAUGE SHALL
- 3. 90° DUCT ELBOWS SHALL BE EQUIPPED WITH SINGLE THICKN TURNING VANES MOUNTED TO A PREFABRICATED VANE RAIL
- 4. ALL ELBOWS SHALL BE SUPPLIED WITH TURNING VANES, WH SHOWN ON DOCUMENTS OR NOT.
- 5. ALL 90° AND 45° RECTANGULAR RADIUS ELBOWS TO BE FABR WITH AN INSIDE RADIUS NO LESS THAN 1/2 OF THE WIDTH OF DUCT - WHERE THE WIDTH OF THE DUCT IS DEFINED AS THE DIMENSION OF THE DUCT IN THE PLANE IN WHICH THE DUCT TURNING.
- RECTANGULAR DUCTWORK SHALL BE SUPPORTED PER THE S.M.A.C.N.A STANDARDS AND AT EACH CHANGE IN DIRECTION
- PROVIDE MANUAL, SINGLE BLADE, BALANCING DAMPERS WIT LOCKING QUADRANT AND INTEGRAL POSITION INDICATOR ON RUNOUTS TO SUPPLY AND EXHAUST AIR DEVICES - EXCEPT LOCATED IN AREAS WITH PLASTER CEILINGS AND ARE NOT ACCESSIBLE (DAMPER SHALL BE INTEGRAL WITH THE AIR DE THESE CASES.)
- PROVIDE MANUAL OPPOSED BLADE DAMPERS WITH LOCKING QUADRANT AND INTEGRAL POSITION INDICATOR ON ALL RECTANGULAR BRANCH DUCTS AND AIR DEVICE RUNOUTS T EXCEED 12" IN HEIGHT.
- 9. MANUAL SPLITTER DAMPERS ARE NOT ACCEPTABLE.
- 10. NOT ALL OF THE ACCESS DOORS IN THE DUCT SYSTEMS OR ARE SHOWN. PROVIDE ACCESS DOORS IN ALL DUCT SYSTEM PLENUMS WHERE REQUIRED TO ACCESS AND MAINTAIN MOT OR AUTOMATIC DAMPER BLADES AND LINKAGES.
- 11. ALL DUCTWORK SHALL BE SUPPORTED FROM ROOF OR FLOO STRUCTURE ABOVE. DUCTWORK SHALL NOT LAY ON TOP OF OR LIGHT FIXTURES.
- 12. FLEXIBLE DUCT RUNOUTS TO AIR DEVICES SHALL NOT EXCEP LENGTH. FLEXIBLE RUNOUTS SHALL BE TRIMMED TO THE MIN LENGTH NECESSARY TO MAKE THE CONNECTION.
- 13. WHERE DAMPER ACTUATORS ARE MOUNTED TO DUCTWORK PLENUMS PROVIDE A HEAVY GAGE BASE PLATE, ANGLE STIFI OR MOUNTING AS REQUIRED TO ELIMINATE DEFLECTION OF DUCTWORK DURING ACTUATOR OPERATION.
- 14. FLEXIBLE DUCT CONNECTIONS TO EQUIPMENT ARE NOT SHO THE DRAWINGS. PROVIDE EXTRA WIDE FLEXIBLE CONNECTION THE SUPPLY DUCT AND THE RETURN DUCT OF EACH MAKE-L UNIT, ROOFTOP UNIT, AND EACH AIR HANDLING UNIT. PROVID STANDARD FLEXIBLE CONNECTIONS ON ALL BLOWER COILS, FANS, SUPPLY FANS, AND DUST COLLECTOR.
- 15. PROVIDE 45° FLARED TAKEOFFS FOR ALL RECTANGULAR BRA CONNECTIONS TO THE MAIN DUCT.
- 16. ALL DAMPER ACTUATORS FOR DUCT SYSTEMS OR EQUIPMEN COMMUNICATES DIRECTLY WITH THE OUTDOORS SHALL BE RETURN TYPE TO CLOSE IN THE EVENT OF A POWER FAILURE
- 17. PROVIDE 1-1/2 HOUR RATED FIRE DAMPERS IN THE DUCTWO WHERE INDICATED ON THE PLANS AND REQUIRED BY CODE DAMPERS SHALL BE PROVIDED WITH AN ACCESS PANEL LAR ENOUGH TO PERMIT INSPECTION AND MAINTENANCE OF THE ACCESS PANELS TO FIRE DAMPERS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR BY A NAMEPLATE WITH THE W "FIRE DAMPER". THE LETTERS ON THE FIRE DAMPER LABELS NOT BE LESS THAN 1/2 INCH IN HEIGHT.
- 18. THE SPACE ABOVE THE SUSPENDED CEILINGS SHALL BE USE RETURN AIR PLENUM. IT IS THE RESPONSIBILITY OF THE ME CONTRACTOR TO COORDINATE THE WORK OF OTHER TRADE PROVIDE ADEQUATE SPACE FOR THE FLOW OF RETURN AIR MAXIMUM VELOCITY). WHERE PARTITIONS EXTEND TO THE CONSTRUCTION ABOVE, OPENINGS SHALL BE PROVIDED IN T PARTITION ABOVE THE CEILING.
- 19. DUCT DIMENSIONS NOTED ON THE DRAWINGS ARE NET FREE WHERE ACOUSTIC LINER IS INDICATED OR SPECIFIED THE SH METAL SIZE MUST BE INCREASED TO ACCOMMODATE THE LIN
- 20. AREAS ABOVE THE CEILING SERVE AS A RETURN AIR PLENUM MATERIALS EXPOSED IN THE PLENUM SHALL HAVE A 25/50 SMOKE/FLAME SPREAD RATING.
- 21. ALL DUCT RUNOUTS TO AIR DEVICES ARE TO BE THE SAME S THE NECK OF THE AIR DEVICE UNLESS NOTED OTHERWISE.
- 22. DIRECTIONAL ARROWS ON AIR DEVICES INDICATE THROWS F DEVICE. VERIFY PROPER ADJUSTMENT OF THROW DEFLECT VANES OF ALL AIR DEVICES PRIOR TO BEGINNING BALANCING NO ARROW SHOWS, THROW SHALL BE 4-WAY.
- 23. CONTRACTOR SHALL BALANCE EACH AREA OF COMPLETED THE CONTRACTOR SHALL BALANCE SUPPLY, RETURN, AND E AIR FLOWS AT EACH AIR DEVICE AFFECTED BY RENOVATION QUANTITY INDICATED ON THE DRAWINGS.
- 24. ALL NEW DUCT CONNECTIONS TO EXISTING DUCTWORK SHA SEALED AIRTIGHT.
- 25. ALL BATHROOM EXHAUST DUCTWORK SHALL BE EXTERNALLY INSULATED.
- 26. EXPOSED GALVANIZED DUCTWORK SHALL BE PAINTABLE. GENERAL CONTRACTOR TO PAINT ALL EXPOSED DUCTWORK. FINAL COLOR TO BE APPROVED BY THE ARCHITECT.

| | | HEATING | AND VENTI | | /IBOL2 |
|--------------------------|---------------|--|--|-----------------------|---|
| | SA | SOUND ATTENUATOR | | cs | CONDENSING WATER SUPPLY |
| | FC | FLEXIBLE CONNECTION | — <u> </u> | —— CR —— | CONDENSING WATER RETURN |
| | | SPLITTER DAMPER | | DTS | DUAL TEMPERATURE SUPPLY |
| | VD | MANUAL VOLUME DAMPER | | ——DTR —— ——FOS —— | DUAL TEMPERATURE RETURN FUEL OIL SUPPLY |
| | ۷D | MANUAL VOLUME DAMPER | | FOR | FUEL OIL RETURN |
| BD | BD | GRAVITY BACKDRAFT DAMPER | | ——FOV —— | FUEL OIL VENT |
| M | | | м | MWL | MAKE - UP WATER LINE |
| ᆍ | MD | MOTORIZED VOLUME DAMPER | | D | |
| - <u>-</u> | FD | FIRE DAMPER SFD | | | VENT LINE (OTHER THAN PLUMBING) REFRIGERANT DISCHARGE |
| Q | | | ۱ Q | —— RL —— | REFRIGERANT LIQUID |
| | SD | SMOKE DAMPER OSD | | | REFRIGERANT SUCTION |
| $\stackrel{\diamond}{=}$ | FD | FIRE DAMPER FSD | | G Cws | GAS CHILLED WATER SUPPLY |
| | ΤV | TURNING VANES | | ——————————— | CHILLED WATER RETURN |
| | | | | CA | COMPRESSED AIR |
| | | RETURN/TRANSFER/COMBUSTION AIR DISCHAR | | —— LPS —— ——MPS —— | LOW PRESSURE STEAM |
| | | RETURN/TRANSFER/COMBUSTION AIR DISCHAR | GE DUCT DOWN | | MEDIUM PRESSURE STEAM |
| | | SUPPLY AIR/COMBUSTION AIR INTAKE UP | | ——MPC—— | MEDIUM PRESSURE CONDENSATE |
| | | SUPPLY AIR/COMBUSTION AIR INTAKE DOWN | | —— HPS —— | HIGH PRESSURE STEAM |
| | | EXHAUST AIR DUCT UP | | ——HPC—— | HIGH PRESSURE CONDENSATE |
| | | EXHAUST AIR DUCT DOWN | | | CONDENSATE PUMP DISCHARGE HEATING WATER SUPPLY |
| <u>C</u> | | ROUND DUCT DOWN | | — — HWR— — | HEATING WATER RETURN |
| | | ROUND DUCT UP | D | | |
| | | INCLINED DROP IN THE DIRECTION OF AIR FLOW | | \square | |
| | | INCLINED RISE IN THE DIRECTION OF AIR FLOW | | NOS | NITROGEN OXIDE SENSOR |
| | | ECCENTRIC DUCT TRANSITION | | ТТ | THERMOSTAT / TEMPERATURE SENSOR |
| | | CONCENTRIC DUCT TRANSITION RECTANGULAR DUCT TO ROUND DUCT TRANSIT | ION | s s | TEMPERATURE SENSOR |
| | FXD | FLEXIBLE DUCT | | | CARBON MONOXIDE SENSOR |
| | | CEILING AIR DEVICE | | | |
| \longrightarrow | | AIR DEVICE THROW DESIGNATION: | | (н) | HUMIDISTAT |
| | | (HATCHING DESIGNATES ZERO THROW) | | | |
| | | SIDEWALL AIR DEVICE | | | |
| | | DAMPERED SHOE DUCT TAP FROM RECT. MAIN | | | |
| | | SHOE DUCT TAP FROM RECT. MAIN | | MIS | CELLANEOUS SYMBOLS |
| M | | 45° DAMPERED DUCT TAP | | \square | EQUIPMENT OR PLUMBING FIXTURE DESIGNATION |
| <u> </u> | | | | | (RISER INDICATION P=PLUMBINGKP =KITCHEN |
| <u> </u> | | 45° DUCT TAP | | $\leftarrow \Sigma$ | |
| | | SADDLE TAP | | | — (RISER NUMBER) |
| | | STRAIGHT RECT. DUCT TAP FROM RECT. MAIN | | A | (DETAIL NUMBER) DETAIL DESIGNATION |
| | | STRAIGHT RECT. DUCT TAP FROM ROUND MAIN | S - SUPPLY DIFFUSER | | - (SHEET NUMBER WHERE DETAIL IS FOUND) |
| | | | AIR DEVICE TYPE: | | - (SECTION NUMBER) SECTION DESIGNATION |
| S-1 | | (AIR DEVICE TYPE) - (SCHEDULE NUMBER) | T - TRANSFER GRILLE R - RETURN GRILLE | | - (SHEET NUMBER WHERE SECTION IS FOUND) |
| 1000 | | - (AIR FLOW IN CFM) | E - EXHAUST GRILLE | | (, |
| | | - DUCT SIZE DESIGNATION: | | | KEYED NOTES |
| 24" x 12" RA | - | 1ST FIGURE SIDE SHOWN. (SIZE SHOWN IS FREE AREA SIZE, | DUCT SYSTEM TYPE: | | |
| | - | ALLOWANCE HAS NOT BEEN MADE FOR INTERIOR INSULATION WHERE | SA - SUPPLY AIR | | REVISIONS |
| | $\overline{}$ | - SPECIFIED.) | RA - RETURN AIR EA - EXHAUST AIR | AP | |
| 24"/12" | | FLAT OVAL DUCT | TA - TRANSFER AIR OA - OUTDOOR AIR | | NEW CONNECTION |
| | | | | | AIR FLOW MEASURING STATION |
| | | | | CVR | CONSTANT VOLUME REGULATOR |
| | | | | | |
| | YMBOL | S OR ABBREVIATIONS MAY BE USED. | OA - OUTDOOR AIR | | AIR FLOW MEASURING STATION CONSTANT VOLUME REGULATOR |

- GENERAL NUTES (DEMOLITION)
- 1. THESE PLANS ARE DIAGRAMMATIC IN NATURE. SINCE THEY REFLECT ONLY THE AVAILABLE INFORMATION OBTAINED FROM EXISTING PLANS, SPECIFICATIONS, AND FIELD SURVEYS. THE EXACT LOCATION OF EXISTING DUCTWORK, PIPING, AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS. THE CONTRACTOR SHALL BE PREPARED TO MAKE SOME ALTERATIONS TO NEW AND/OR EXISTING SERVICES TO FIT ACTUAL JOB CONDITIONS.
- 2. ITEMS SHOWN BOLD AND/OR DASHED ON THE DEMOLITION SHEETS INDICATE ITEMS TO BE REMOVED.
- 3. CROSS HATCHING INDICATES ITEMS TO BE REMOVED.
- 4. OWNER HAS FIRST RIGHT OF REFUSAL FOR ALL EQUIPMENT BEING REMOVED. CONTRACTOR TO DISPOSE OF EQUIPMENT BEING REMOVED BUT NOT RETAINED BY OWNER.
- ROOF.
- THE CONTRACTOR AND THE OWNER'S REPRESENTATIVE 3. SHALL INSPECT THE EXPOSED ROOFING MEMBRANE SYSTEM PRIOR TO THE START OF CONSTRUCTION. ANY PREVIOUS DAMAGE OR DEFECTS OF THE ROOFING SYSTEM SHALL BE DOCUMENTED BY WRITING AND/OR PHOTOGRAPHS.
- ALLOWED.

THE PROFESSIONAL ENGINEER'S SEAL AFFIXED TO THIS SHEET APPLIES ONLY TO THE MATERIAL AND ITEMS SHOWN ON THIS SHEET. ALL DRAWINGS, INSTRUMENTS OR OT DOCUMENTS NOT EXHIBITING THIS SEAL SHALL NOT BE CONSIDERED PREPARED BY ENGINEER, AND THIS ENGINEER EXPRESSLY DISCLAIMS ANY AND ALL RESPONSIBILITY FOR SUCH PLAN, DRAWINGS OR DOCUMENTS NOT EXHIBITING THIS SEAL.

| PIPING SPECIALTIE | ES |
|-------------------|----|
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| | Р | IPING SPECIALTIES |
|------|---|---|
| | GV CV GLV BLV BLV STR U BC SOC SLV BFV FS FCV | GATE VALVE CHECK VALVE GLOBE VALVE BALL VALVE STRAINER UNION BALANCING COCK SHUT-OFF COCK SOLENOID VALVE BUTTERFLY VALVE FLOW SWITCH VALVE W/ SUPERVISORY SWITCH FLOW CONTROL VALVE (GPM INDICATED) R TEMPERATURE AND PRESSURE RELIEF VALVE PRESSURE GAUGE THERMOMETER (TUBE OR DIAL AS INDICATED) |
| | | DIRECTION OF FLOW ANCHORS PIPE GUIDES MOTORIZED VALVE DIAPHRAGM VALVE |
| | | HOSE END VALVE STOP AND WASTE VALVE |
| | т Т | 3 - WAY VALVE (MIXING OR BY-PASS AS INDICATED) PETES PLUG |
| | RV | RELIEF VALVE FLEXIBLE PIPE CONNECTION |
| | Д | AIR VENT (MANUAL) |
| | AVA | AIR VENT (AUTOMATIC) EXPANSION JOINT |
| | | CONCENTRIC REDUCER TEE (SIDE OUTLET UP) TEE (SIDE OUTLET DOWN) ELBOW (TURNED UP) |
| | \mathbf{O} | ELBOW (TURNED DOWN) COMBINATION BALANCING & MEASURING DEVICE |
| | • | ECCENTRIC REDUCER FLOW MEASURING DEVICE STEAM TRAP |
| CID) | | BALANCING VALVE FLEXIBLE CONNECTION ELBOW TEE |
| | | ABBREVIATIONS |
| | AFF ABOVE F TE TOP ELEY BE BOTTOM FL FLOW LIN INV INVERT E & CENTER GC GENERAL HAC HEATING PC PLUMBIN EC ELECTRIC ACS AUTOMA FPC FIRE PRO HSC HALON S KEC KITCHEN MC MECHAN | OOR ELEVATION INISH FLOOR VATION ELEVATION IE IEVATION |

GENERAL NOTES (ROOF PROTECTION)

1. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE A MINIMUM OF SEVEN DAYS PRIOR TO THE BEGINNING OF WORK THAT INVOLVES ACTIVITY ON THE

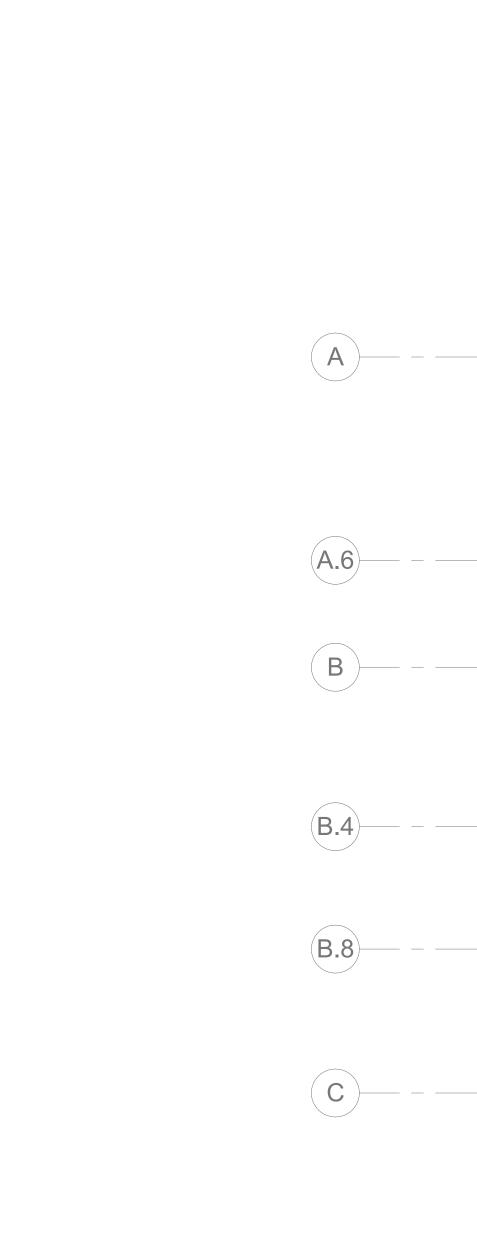
2. TRAFFIC OVER THE EXISTING ROOF SURFACES SHALL BE KEPT TO AN ABSOLUTE MINIMUM.

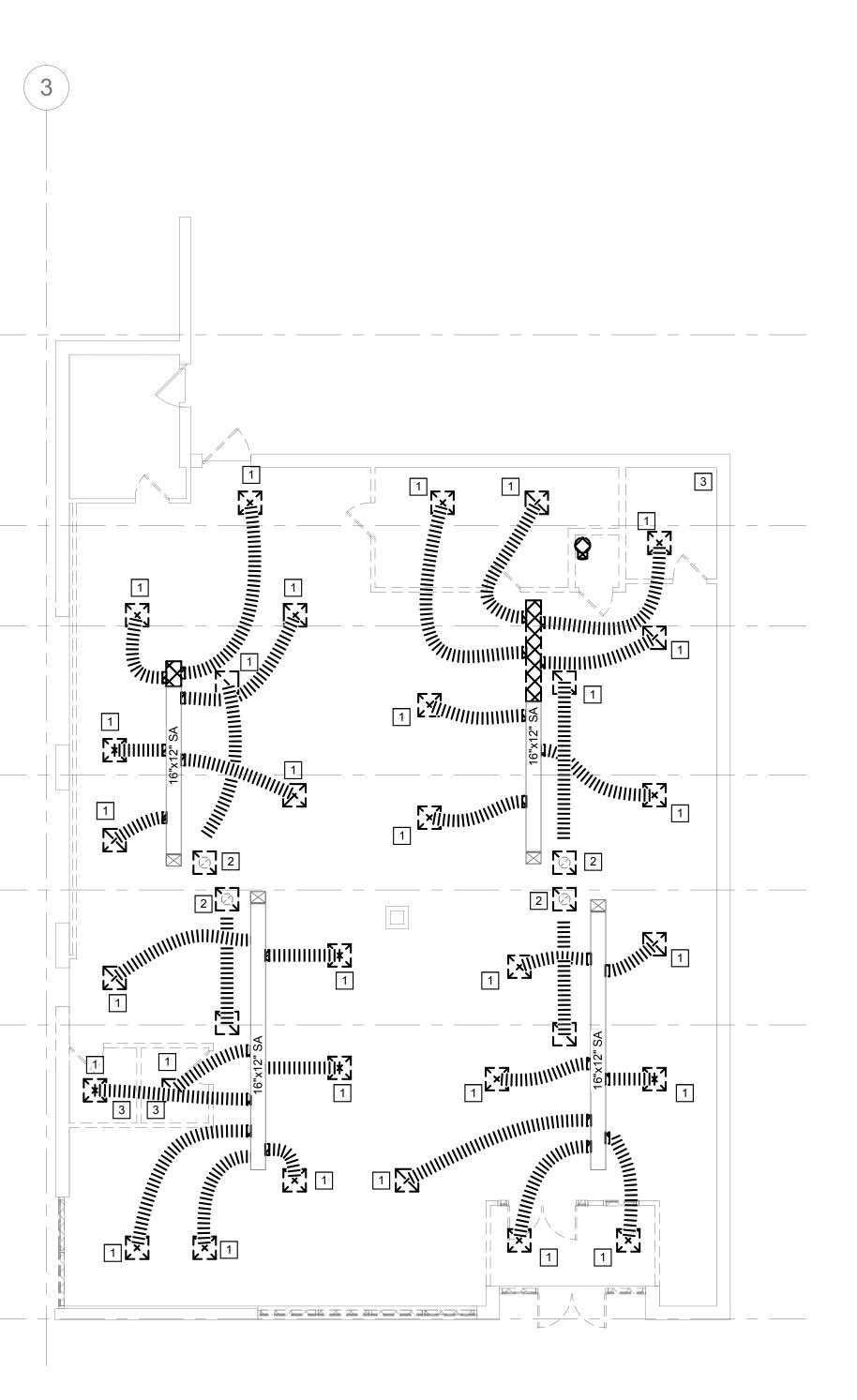
- 4. THE CONTRACTOR SHALL PLACE MINIMUM OF 48" WIDE, 1/2" THICK APPROVED PROTECTION BOARDS (1 LAYER) MADE OF CONSTRUCTION GRADE PLYWOOD (ORIENTED STRAND BOARD WILL BE ACCEPTABLE) OVER ALL MEMBRANE ROOFING THAT WILL HAVE CONSTRUCTION TRAFFIC. THIS ROOF PROTECTION SHALL BE PROVIDED FOR THE ENTIRE AREA WITHIN THE LIMITS OF THE WORK (SEE DRAWINGS THIS SHEET). SUCH PROTECTION SHALL ALSO BE PROVIDED IN THE FORM OF A WALKWAY FROM THE ROOF ACCESS DOOR TO THE PROTECTED CONSTRUCTION AREA.
- 5. STORAGE OF MATERIALS ON EXISTING ROOF WILL NOT BE

6. THE CONTRACTOR SHALL REMOVED DAILY ALL PROJECT DEBRIS FROM ALL ROOFING SURFACES.

- 7. THE CONTRACTOR SHALL ADVISE THE OWNER'S REPRESENTATIVE WHEN WORK ON THE ROOF IS COMPLETE AND THE PROTECTION BOARDS HAVE BEEN REMOVED. THE CONTRACTOR AND THE OWNER'S REPRESENTATIVE SHALL EXAMINE ALL ROOF SURFACES WHERE WORK HAS OCCURED AND WILL REPAIR ALL DEFECTS NOT PREVIOUSLY DOCUMENTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY 8. DAMAGE TO THE BUILDING, ROOF, STRUCTURAL FRAMING, ETC. INCURRED DURING CONSTRUCTION.
- CONTRACTOR SHALL UTILIZED A LICENSED APPLICATOR OF THE EXISTING ROOFING SYSTEM TO REPAIR ANY AND ALL DAMAGE INCURRED DURING THE COURSE OF CONSTRUCTION.
- 10. THE CONTRACTOR SHALL VERIFY WARRANTY OF THE EXISTING MEMBRANE ROOFING SYSTEM. THE CONTRACTOR SHALL UTILIZE A LICENSED APPLICATOR OF THE EXISTING ROOFING SYSTEM TO PERFORM ALL ROOFING WORK AND TO REPAIR ANY AND ALL DAMAGE. UPON COMPLETION, THE CONTRACTOR SHALL OBTAIN A LETTER FROM THE ROOF MANUFACTURER STATING THAT THE EXISTING WARRANTY REMAINS IN FULL FORCE AND EFFECT.

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| ST. LO T (314) CONT/ | OCUST ST. UIS, MO 631 531-7400 ACT: SCOTT | CLARK | | |
| ARCHI SAPP I 3750 S SPRIN T (417) F (417) CONT | .: SCLARK@ <u>TECT</u> DESIGN ASS OUTH FREM GFIELD, MO 877-9600 877-9696 ACT: JAMES IFFLEBEAM@ | OCIATES IONT 65804 STUFFLI | S ARCH EBEAM | IITECTS |
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| <u>MECH</u> BRIC F 343 S. KIRKW T (314) CONT/ | ANICAL, ELE PARTNERSHII KIRKWOOD (OOD, MO 63 725-5889 ACT: BRUCE DLEMAN@BF | CTRICAL P, LLC ROAD, S 3122 COLEM, | <u>-, PLUN</u> SUITE 2 AN | <u>MBING</u> 204 |
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1 DEMOLITION PLAN - FIRST FLOOR- MECHANICAL MD-201 1/8" = 1'-0" THE PROFESSIONAL ENGINEER'S SEAL AFFIXED TO THIS SHEET APPLIES ONLY TO THE MATERIAL AND ITEMS SHOWN ON THIS SHEET. ALL DRAWINGS, INSTRUMENTS OR OTHER DOCUMENTS NOT EXHIBITING THIS SEAL SHALL NOT BE CONSIDERED PREPARED BY THIS ENGINEER, AND THIS ENGINEER EXPRESSLY DISCLAIMS ANY AND ALL RESPONSIBILITY FOR SUCH PLAN, DRAWINGS OR DOCUMENTS NOT EXHIBITING THIS SEAL.

GENERAL NOTES

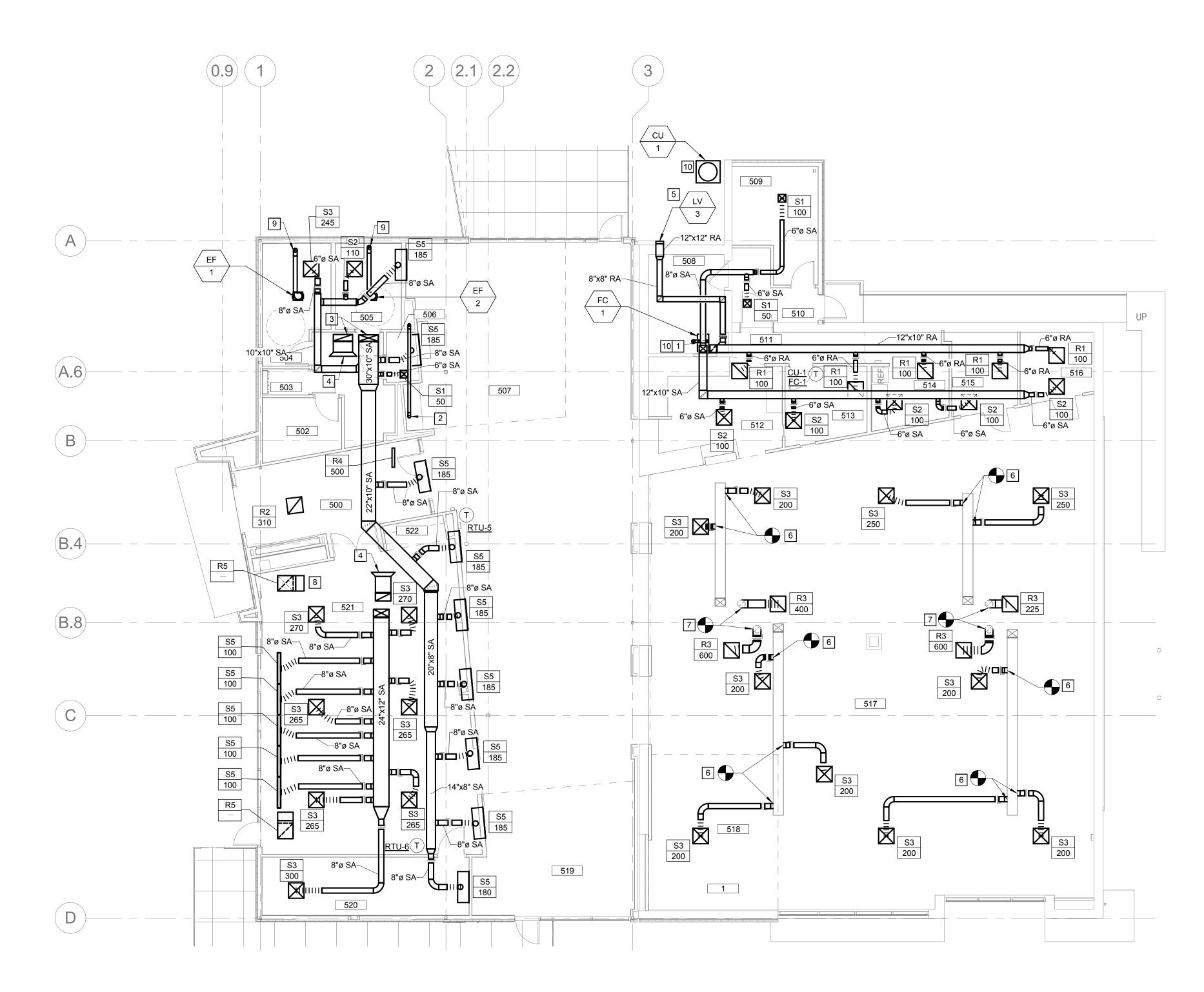
1 SEE SHEET M-001 FOR GENERAL NOTES APPLYING TO THIS SHEET.

KEYED NOTES

#

- 1 REMOVE EXISTING SUPPLY DIFFUSER AND DUCTWORK BACK TO MAIN. PATCH EXISTING DUCTWORK WITH LIKE MATERIAL AND SEAL AIR TIGHT.
- 2 REMOVE EXISTING RETURN DIFFUSER AND DUCTWORK BACK TO MAIN.
- 3 DEMOLISH EXISTING EXHAUST FAN, ASSOCIATED DUCTWORK, CONTROLS, WIRING AND ACCESSORIES.





T FLOOR PLAN - FIRST FLOOR - MECHANICAL M-201 1/8" = 1'-0"

THE PROFESSIONAL ENGINEER'S SEAL AFFIXED TO THIS SHEET APPLIES ONLY TO THE MATERIAL AND ITEMS SHOWN ON THIS SHEET. ALL DRAWINGS, INSTRUMENTS OR OTHER DOCUMENTS NOT EXHIBITING THIS SEAL SHALL NOT BE CONSIDERED PREPARED BY THIS ENGINEER, AND THIS ENGINEER EXPRESSLY DISCLAIMS ANY AND ALL RESPONSIBILITY FOR SUCH PLAN, DRAWINGS OR DOCUMENTS NOT EXHIBITING THIS SEAL.

GENERAL NOTES

SEE SHEET M-001 FOR GENERAL NOTES APPLYING TO THIS SHEET.

KEYED NOTES

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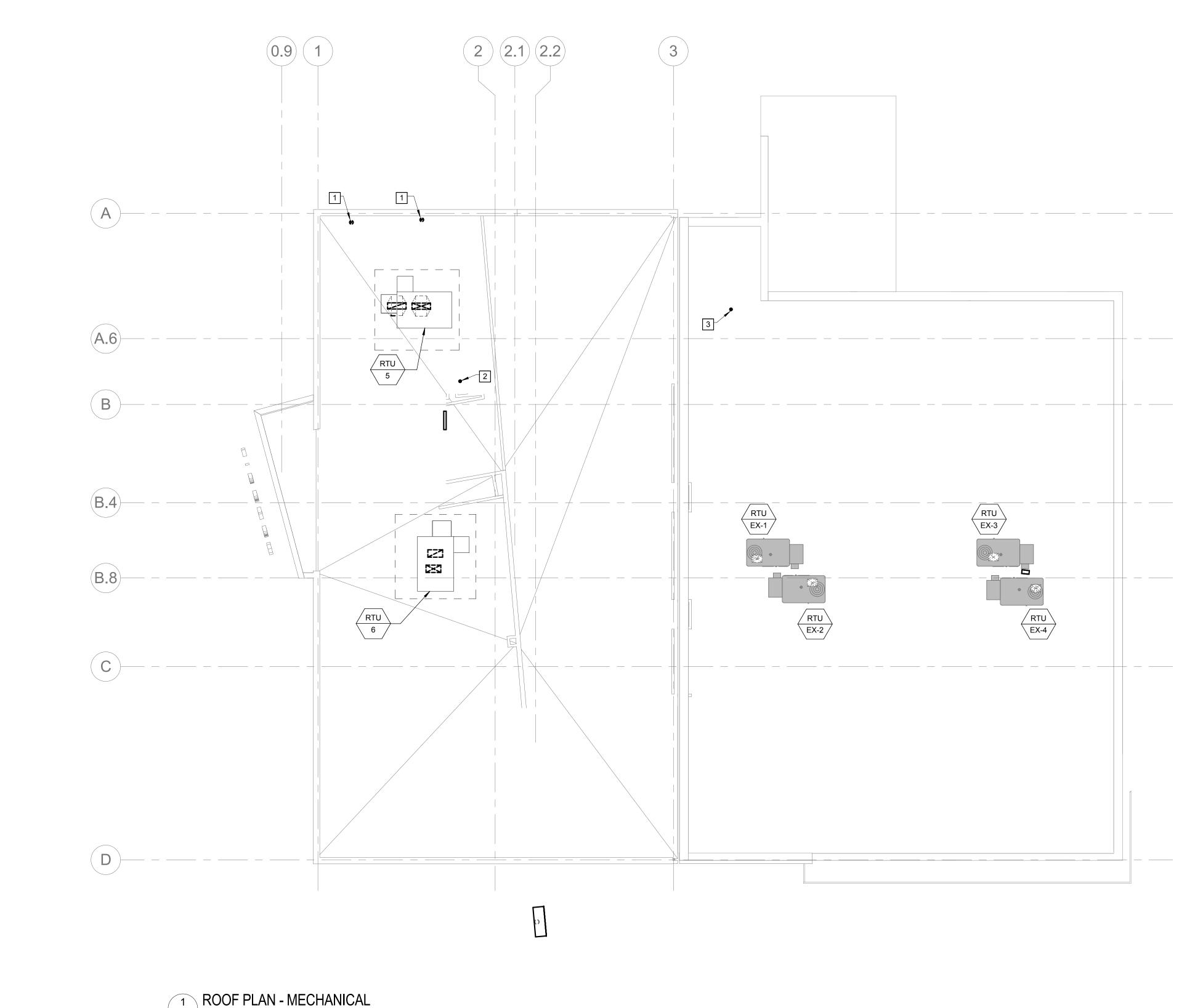
- ROUTE 4"Ø FLUE FROM FC-1 UP THROUGH ROOF. SEE DETAIL FOR ADDITIONAL REQUIREMENTS.
- ROUTE 4"Ø FLUE FROM FIREPLACE UP THROUGH ROOF. SEE
- DETAIL FOR ADDITIONAL REQUIREMENTS. SUPPLY AND RETURN DOWN FROM RTU-5. SEE SHEET M-202 FOR
- CONTINUATION. 4 PROVIDE 45°, 6" LONG BELLMOUTH FITTING AT INLET OF RETURN AIR DUCT.
- TRANSITION DUCT AS REQUIRED TO CONNECT TO LOUVER. TOP OF DUCT SHALL BE FLUSH WITH TOP OF LOUVER, SLOPE BOTTOM OF DUCT DOWN TOWARDS LOUVER. TRANSITION SHALL BE A MINIMUM OF 12" LONG.
- 6 CONNECT NEW SUPPLY DUCT TO MAIN.
- 7 CONNECT NEW RETURN DUCT TO MAIN. 8 PROVIDE RETURN BOOT. SEE DETAIL FOR ADDITIONAL REQUIREMENTS.
- 8" EXHAUST DUCT UP THROUGH ROOF. TERMINATE WITH GOOSENECK. SEE DETAIL FOR ADDITIONAL REQUIREMENTS.
- 10 CONTRACTOR SHALL FIELD ROUTE REFRIGERANT PIPING BETWEEN FC-1 AND CU-1. REFRIGERANT PIPING SHALL BE ROUTED ON INTERIOR OF BUILDING. ALL PIPING INSULATION SHALL BE PROVIDED WITH PAINTABLE ALUMINUM JACKETS.



PRELIMINARY NOT FOR CONSTRUCTION

| DAVID E. LAUVER LICENSE NO. 2007002812 RIC MO CERTIFICATE OF | MO. LICENS BRIC MO | | ROOM SCHEDULE - 1ST FLOOR | | | |
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| AUTHORITY 2002028690 | AUTHOR | | Name | | Number | |
| ate Description | Date | No. | | | 4 | |
| 14/17 ISSUED FOR I | 04/14/17 | | | Room | 1 | |
| | 04/14/17 | | | VESTIBULE | 500 | |
| | | | | CORRIDOR | 501 | |
| | | | | ELEC./IT | 502 | |
| | | | | JAN. CL. | 503 | |
| | | | | WOMEN | 504 | |
| | | | | MEN | 505 | |
| | | | | STORAGE | 506 | |
| | | | | ADULTS | 507 | |
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| | | | | STORAGE | 509 | |
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| ≟ L AN - FIRST FLOOR - | TITLE: | | | STUDY | 516 | |
| | HANICAL | | | CIRCULATION | 517 | |
| | | | | TEEN AREA | 518 | |
| | Л | | | CHILDREN AREA | 519 | |
| 1-201 | \/ _ | | | STORAGE | 520 | |
| 1-70 I | | | | MEETING ROOM | 521 | |
| | | • | | COATS | 522 | |
| | | | | CIRCULATION | 523 | |

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M-202 1/8" = 1'-0"

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GENERAL NOTES

1 SEE SHEET M-001 FOR GENERAL NOTES APPLYING TO THIS SHEET.

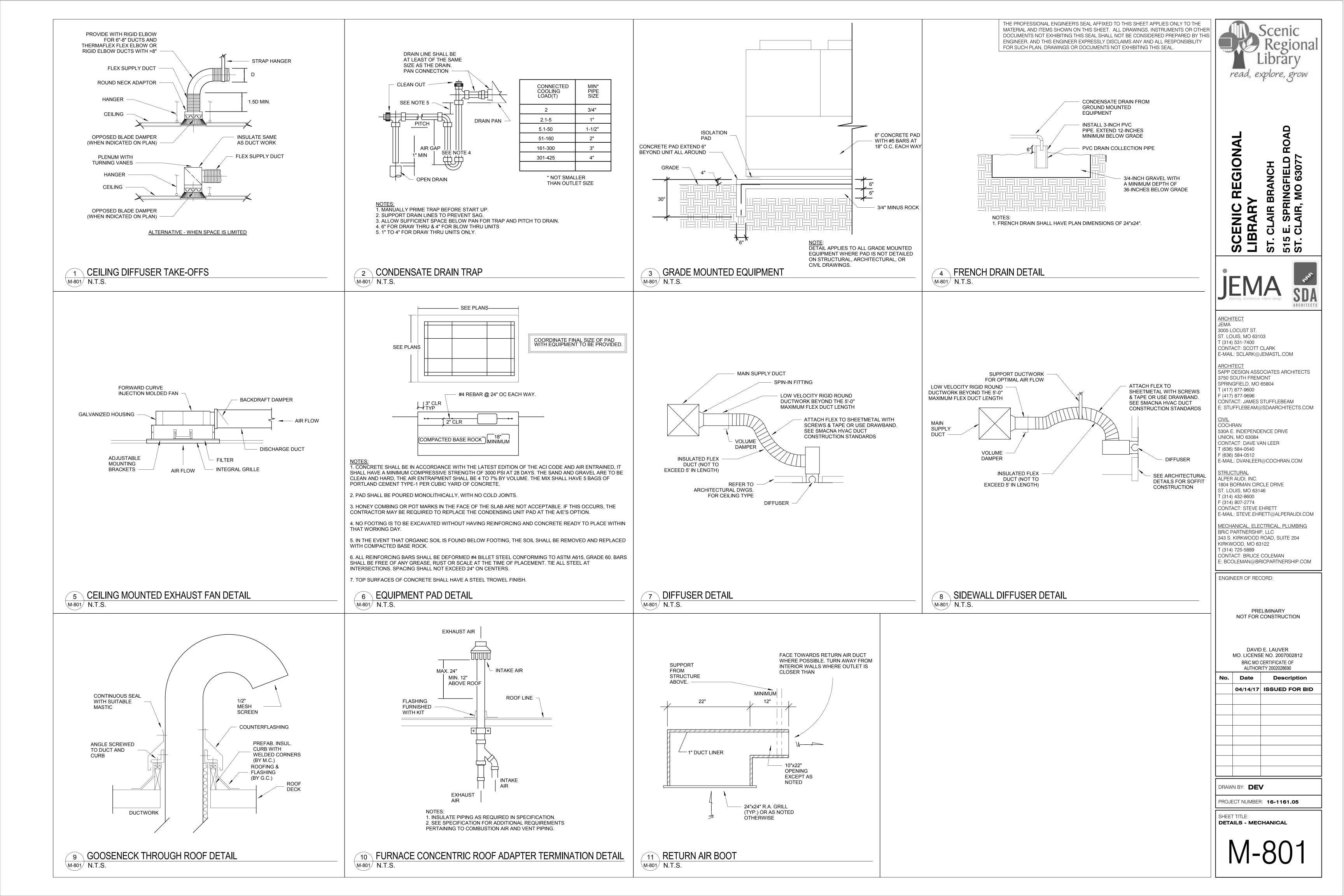
KEYED NOTES

1 8" EXHAUST DUCT UP FROM EXHAUST FAN. TERMINATE WITH GOOSENECK. SEE DETAIL FOR ADDITIONAL REQUIREMENTS.

- 2 4" FLUE DUCT UP FROM FIREPLACE.
- 3 4" FLUE DUCT UP FROM FC-1.

#





| PLAN MARK | | | | | | EXTERNAL COOLING PERFORMANCE | | | | F | IEATING PE | RFORMANC | Ξ | MAX | | | | | | |
|-----------|---|------------------|----------|------|----------|------------------------------|--------------------|----------|----------|--------------|------------|----------|----------------------------|-----|-----|-------|----------------|-------------|---------------------|----------|
| | | | | | | | STATIC PRESSURE | | | | | | TOTAL CAPACITY (MPb) | | | | OUTPUT CAP. | REFRIGERANT | OPERATING WEIGHT | NOTEO |
| | | MANUFACTURER | MODEL | CFM | FLOW CFM | HEATING CFM | (IN. WG) | EDB (F°) | EWB (F°) | AMBIENT (F°) | LDB (F°) | DWB (F°) | (MBh) | EDB | LDB | (MBh) | (MBh) | USED | (LBS) | NOTES |
| RTU | 5 | JOHNSON CONTROLS | ZVTA5N08 | 2015 | 450 | 800 | 1.00 | 81 | 67 | 95 | 59 | 57 | 60.5 | 40 | 70 | 80.0 | 65.0 | R-410A | 1153 | 1 , 2, 3 |
| RTU | 6 | JOHNSON CONTROLS | ZST07N12 | 2400 | 500 | 800 | 1.00 | 79 | 65 | 95 | 55 | 53 | 81.9 | 40 | 77 | 120.0 | 96.0 | R-410A | 1065 | 1 , 2, 3 |

PROVIDE WITH INTEGRAL CONTROLS TO PROVIDE SINGLE ZONE VAV FAN OPERATION AS DEFINED BY ASHRAE 90.1 SECTION 6.4.3.10 TO MAINTAIN SPACE TEMPERATURE AND SPACE CO2 SET POINT. SPACE SENSOR SHALL BE 7 DAY PROGRAMMABLE TYPE WITH PASSWORD PROTECTION. PROVIDE STAINLESS STEEL OR COMPOSITE DRAIN PAIN TO MEET ASHRAE 62.1. PROVIDE WITH 14" SEISMIC CURB FOR GRADE MOUNTING OF UNIT.

PROVIDE WITH 100% ECONOMIZER WITH POWER EXHAUST AND BAROMETRIC RELIEF KIT.

UNIT SHALL BE CONFIGURED FOR HORIZONTAL SUPPLY AND RETURN. PROVIDE WITH SINGLE POINT POWER CONNECTION, DISCONNECT SWITCH, AND CONVENIENCE OUTLET. PROVIDE WITH STAINLESS STEEL OR ALUMINIZED STEEL BURNER.

PLA

NOTES:

| | | | | | | FL | JRNACE | SCHED | ULE | | | | | | | | |
|-----------|--------------|----------|--------|------------|-------|-------|--------------|----------|---------|---------|---------|---------|-----------|----------|----------|--------|-------|
| PLAN MARK | | | | SUPPLY FAN | | | | D-X CIRO | CUITING | | | GAS HEA | TING COIL | | | | |
| | | | SUPPLY | OUTSIDE | MOTOR | CAP. | CAP. MBH EAT | | | LA | АТ | MBH | MBH | | | WEIGHT | |
| | MANUFACTURER | MODEL | CFM | AIR CFM | H.P | TOTAL | SENS. | DB (°F) | WB (°F) | DB (°F) | WB (°F) | INPUT | OUTPUT | EAT (°F) | LAT (°F) | (LBS.) | NOTES |
| FC 1 | GUARDIAN | RGF19060 | 1200 | 315 | 0.5 | 34.2 | 22.9 | 80 | 67 | 62 | 58 | 60 | 57 | 60 | 104 | 122 | 1 |
| | | | | | | | | | | | | | | | | | |

1. SEE SHEET E-901 FOR ELECTRICAL REQUIREMENTS.

CONDENSING UNIT SCHEDULE PLAN MARK MANUFACTURER MODEL GUARDIAN RAL CU 1

NOTES: 1. SEE SHEET E-901 FOR ELECTRICAL REQUIREMENTS.

| | | | | | / | AIR DE | VICE SCH | HEDULE | | | | | | |
|--------------|--------------|-------|-----------------------|--------------------|--------------|---------|------------------------------|---------------|-----------------|---|----------|--------|------------------|-------|
| TYPE MARK | MANUFACTURER | MODEL | STYLE | CONNECTION SIZE | FA LENGTH | | MAXIUMUM AIRFLOW (CFM) | THROW (FT) | MAX NC LEVEL | AIR TERMINAL STATIC PRESSURE (IN-WG) | MATERIAL | FINISH | MOUNTING TYPE | NOTES |
| S1 | TITUS | OMNI | SQUARE PLAQUE | 6"ø | 12" | 12" | 100 | 7 | 30 | 0.10 | STEEL | BWE | LAY-IN | 1 |
| S2 | TITUS | OMNI | SQUARE PLAQUE | 6"ø | 24" | 24" | 160 | 8 | 30 | 0.10 | STEEL | BWE | LAY-IN | 1 |
| S3 | TITUS | OMNI | SQUARE PLAQUE | 8"ø | 24" | 24" | 300 | 12 | 30 | 0.10 | STEEL | BWE | LAY-IN | 1 |
| S5 | TITUS | FL-10 | TWO 1" SLOT HIGHTHROW | 8"ø | 48" | 5 5/16" | 300 | 25 | 30 | 0.10 | STEEL | BWE | SIDEWALL/SURFACE | |
| R1 | TITUS | 350RL | GRILL | 6"ø | 24" | 24" | 750 | - | 30 | 0.10 | STEEL | BWE | LAY-IN | 1 |
| R2 | TITUS | 350RL | GRILL | 10"ø | 24" | 24" | 750 | - | 30 | 0.10 | STEEL | BWE | LAY-IN | 1 |
| R3 | TITUS | 350RL | GRILL | 12"ø | 24" | 24" | 1000 | - | 30 | 0.10 | STEEL | BWE | LAY-IN | 1 |
| R4 | TITUS | 350RL | GRILL | 16"x30" | 16" | 30" | 1500 | - | 30 | 0.10 | ALUMINUM | BWE | SIDEWALL/SURFACE | |
| R5 | TITUS | 350RL | GRILL | 22"x22" | 24" | 24" | 1500 | - | 30 | 0.10 | ALUMINUM | BWE | LAY-IN | 1 |

NOTES: 1. PROVIDE EARTHQUAKE TABS.

| | LOUVER SCHEDULE | | | | | | | | | |
|------|-----------------|--------------|-------|-----|------------|---------------|---------------------|----------|-------|--|
| PLAN | MARK | MANUFACTURER | MODEL | CFM | DIMENSIONS | FREE AREA (%) | MAX P.D. IN W.C. | MATERIAL | NOTES | |
| LV | 3 | GREENHECK | FGI | 215 | 12 x 12 | 57 | 0.1 | ALUMINUM | 1, 2 | |
| | | | | I | | | | | · · | |

NOTES: 1. COLOR TO BE SELECTED BY ARCHITECT. 2. STYLE: CONTINUOUS DRAINABLE STATIONARY LOUVER, EXTENDED ALUMINUM.

| | EXHAUST FAN SCHEDULE | | | | | | | | | | |
|--------|----------------------|--------------|--------|------------------|---|---------|----------------|-------------------------|-------|--|--|
| PLAN I | MARK | MANUFACTURER | MODEL | AIRFLOW (CFM) | EXTERNAL STATIC PRESSURE (IN-WC) | FAN RPM | INLET SONES | MOTOR POWER WATTS | NOTES | | |
| EF | 1 | LOREN COOK | GC-162 | 150 | 0.00 | 1200 | 3.4 | 98 | | | |
| EF | 2 | LOREN COOK | GC-162 | 150 | 0.00 | 1200 | 3.4 | 98 | | | |

NOTES: 1. SEE SHEET E-901 FOR ELECTRICAL REQUIREMENTS.

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| | TEDOLE | | | | | | | | | | | |
|-------------|----------------|-------------|-------------|-------|--|--|--|--|--|--|--|--|
| ASSOCIATED | COOLING | REFRIGERANT | UNIT WEIGHT | | | | | | | | | |
| INDOOR UNIT | CAPACITY (MBh) | TYPE | (LBS) | NOTES | | | | | | | | |
| FC-1 | 36.0 | R410A | 160.00 | 1 | | | | | | | | |

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PLUMBING GENERAL NOTES - PLUMBING SHEETS ONLY

- THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THEY REFLECT ONLY THE AVAILABLE INFORMATION OBTAINED FROM SPECIFICATIONS 15. REFER TO PLUMBING FIXTURE SCHEDULE FOR WASTE, VENT AND SUPPLY SIZES TO INDIVIDUAL FIXTURES. 1. AND FIELD SURVEYS. THE EXACT LOCATION OF EXISTING PIPING, AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS. THE CONTRACTOR SHALL BE PREPARED TO MAKE SOME ALTERATIONS TO SERVICES TO FIT ACTUAL JOB CONDITIONS. 16. EQUIPMENT AND FIXTURE SYMBOLOGY MAY NOT REFLECT ACTUAL TYPE. REFER TO SPECIFICATIONS AND SCHEDULES FOR FIXTURE OR EQUIPMENT TYPE.
- PIPING DRAWINGS ARE TO BE CONSIDERED SCHEMATIC AND ARE NOT INTENDED TO INDICATE ALL CHANGES IN DIRECTION. ALL 2 FIRE CAULK ALL PIPING PENETRATIONS THROUGH FIRE RATED PARTITIONS TO MAINTAIN FIRE RATING OF PARTITION. CONTRACTOR TO FIRESTOP NECESSARY FITTINGS TO BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. PIPE AND FITTINGS MUST BE INSTALLED SO THAT ALL PIPE 17. AND/OR INSULATION COMPLETELY CLEARS ALL NEARBY STRUCTURES, PIPING AND ITEMS BY OTHER CONTRACTORS. ALL PENETRATIONS THROUGH FIRE-RATED FLOORS AND WALLS CREATED BY NEW WORK WITH "SPECSEAL SSS" OR EQUAL.
- 3. CONTRACTOR SHALL VERIFY EXACT LOCATION, CONDITION, ELEVATION AND SIZES OF UTILITIES AT SITE BEFORE PROCEEDING WITH WORK. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL CONCRETE EQUIPMENT PAD FOR ALL EQUIPMENT SUPPLIED BY THIS CONTRACTOR. PAD 18. SHOULD BE A MINIMUM OF 4" THICK. PLUMBING CONTRACTOR TO COORDINATE THE INSTALLATION OF ALL PIPING, VALVES, AND EQUIPMENT WITH GENERAL CONTRACTOR AND 4
- RELATED STRUCTURAL, MECHANICAL, ELECTRICAL, AND FIRE PROTECTION CONTRACTORS. 19. ALL ITEMS INCLUDED ON THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE INCLUDED IN THE CONTRACTOR'S BID. ANY ITEMS THAT ARE UNCLEAR OR FOUND TO BE INCORRECT BY THE CONTRACTOR SHALL BE BROUGHT, IN WRITING, TO THE ATTENTION OF THE ARCHITECT AND 5. ALL FIXTURES AND PIPING SHALL BE SIZED, VENTED, TRAPPED AND INSTALLED IN ACCORDANCE WITH UNIFORM PLUMBING CODE 2009 ENGINEER PRIOR TO THE BID DUE DATE.
- EDITION AND INTERNATIONAL BUILDING CODE 2009 EDITION.
- 6. CONTRACTOR SHALL PROTECT ALL ADJACENT AREAS DURING ALL PHASES OF CONSTRUCTION.
- ANY HOLES LEFT IN WALL CONSTRUCTION DUE TO WORK SHALL BE PATCHED AND PAINTED BY THIS CONTRACTOR TO MATCH
- 22. LOCATIONS OF ROOF DRAINS, FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. INDICATED ON THESE DRAWINGS ARE CONSIDERED CONSTRUCTED CONDITIONS. COORDINATE FINISH AND MATERIALS WITH ARCHITECT. APPROXIMATE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF FINAL AND EXACT LOCATIONS WITH ALL OTHER TRADES AND PLUMBING CONTRACTOR TO FURNISH AND INSTALL SUPPLY STOP SHUT-OFF VALVES ON ALL FIXTURE WATER SUPPLY LINES. FURNISH AND EQUIPMENT SUPPLIERS PRIOR TO INSTALLATION. DRAINS, ETC., NOT CORRECTLY LOCATED AS DETERMINED BY THE 8. INSTALL WATER HAMMER ARRESTORS AS INDICATED ON PLANS. INSTALL VALVES IN ACCESSIBLE LOCATION. IF LOCATION IS NOT READILY ARCHITECT/ENGINEER/OWNER SHALL BE REMOVED AND RELOCATED AT THIS CONTRACTOR'S EXPENSE. ACCESSIBLE, COORDINATE ACCESS PANEL REQUIREMENTS WITH GENERAL CONTRACTOR.
- 23. ALL VTR'S SHALL BE LOCATED A MINIMUM OF 12'-0" FROM AIR INTAKES ON MECHANICAL ROOFTOP EQUIPMENT. COORDINATE WITH ALL TRADES 9. PLUMBING CONTRACTOR TO FURNISH AND INSTALL SHUT-OFF VALVES AND ACCESS PANELS AT THE BASE OF ALL WATER SUPPLY PIPING PRIOR TO INSTALLATION. RISERS.
- 24. AREA ABOVE CEILINGS SERVE AS A RETURN AIR PLENUM. ALL MATERIALS EXPOSED IN THE PLENUM SHALL HAVE A 25/50 SMOKE/FLAME SPREAD RATING. NO PVC PIPING ALLOWED ABOVE CEILING. ALL SANITARY AND VENT PIPING TO BE CAST IRON ABOVE CEILING. ALL GAS PIPING ABOVE 10. PLUMBING CONTRACTOR TO PROVIDE CLEANOUT AT THE BASE OR NO MORE THAN 4 FT ABOVE FLOOR OF ALL WASTE, AND SANITARY CEILING TO BE STEEL WITH WELDED JOINTS. ALL POLYPROPYPLENE WATER PIPING ABOVE CEILING SHALL BE WRAPPED TO ACHIEVE 25/50 STACKS. SMOKE/FLAME SPREAD RATING.
- 11. PLUMBING CONTRACTOR SHALL VERIFY THAT ALL VALVES IN THE COLD AND HOT WATER SUPPLY PIPING ARE IN THE FULLY OPEN POSITION. CONTRACTOR TO VERIFY ALL BALANCING VALVES ON HOT WATER CIRCULATING PIPING ARE OPEN AND ADJUSTED AS NOTED TO ASSURE 25. MAKE ALL FINAL PLUMBING CONNECTIONS TO PLUMBING FIXTURES AND EQUIPMENT SHOWN ON PLANS. PROPER CIRCULATION.
- 12. PLUMBING CONTRACTOR TO FURNISH AND INSTALL EQUIPMENT DRAINS FOR ALL APPLIANCES (AIR HANDLERS, WATER HEATERS, KITCHEN EQUIPMENT, (ETC.) AND ROUTE TO THE NEAREST FLOOR DRAIN. PROVIDE INDIRECT CONNECTION AT DRAIN AS REQUIRED. FINAL CONNECTION TO EQUIPMENT SHOULD BE MADE BY CONTRACTOR PROVIDING EQUIPMENT UNLESS OTHERWISE NOTED.
- 13. WATER TEMPERATURE SETTING FOR WATER HEATER AND THERMOSTATIC MIXING VALVES SHALL BE AS FOLLOWS: WATER HEATER - 140 DEG F THERMOSTATIC MIXING VALVE - 110 DEG F
- 14. ALL PIPING SHALL BE CONCEALED IN CHASE, WALLS, CEILING, FLOORING, ETC. UNLESS OTHERWISE NOTED. PIPING SHOWN OUTSIDE OF OWNER HAS FIRST SALVAGE RIGHT TO ALL FIXTURES TO BE REMOVED. DISPOSE OF REMAINDER OF DEMOLISHED MATERIALS IN AN 29. WALL FOR CLARITY ONLY. ENVIRONMENTALLY ACCEPTABLE MANNER.

| MARK | DESCRIPTION | MANUFACTURER | MODEL NUMBER | WASTE | VENT | COLD WATER | HOT WATER | NOTES |
|-------|---------------------------|-----------------|--------------------|--------|--------|---------------|--------------|--|
| WC-1 | WATER CLOSET, FLOOR MOUNT | KOHLER | K-4405 | 4" | 2" | - | - | ADA COMPLIANT, FLOOR MOUNT, FLOOR DISCHARGE |
| | FLUSH VALVE | SLOAN | WES-111-W | - | - | 1-1/4" | - | 1.1 TO 1.6 gpf DUAL FLUSH MANUAL FLUSHOMETER |
| LA-1 | LAVATORY (WALL HUNG) | KOHLER | K-2005 | 1-1/2" | 1-1/2" | - | - | WALL HUNG, ADA COMPLIANT, PROVIDE CARRIER |
| | FAUCET | CHICAGO FAUCETS | 895-317CP | - | - | 1/2" | 1/2" | ADA COMPLIANT LEVER HANDLES |
| SK-1 | SINK | ELKAY | LR1919 | 1-1/2" | 1-1/2" | | | SINGLE BASIN, SS SINK |
| | FAUCET | CHICAGO FAUCETS | 895-317GN8AE29VPCP | - | - | 1/2" | 1/2" | 2.2 GPM, WRIST BLADE PADDLES, 8" GOOSENECK |
| WH-1 | HOSE BIBB | WOODFORD | 24 | - | - | 1/2" | - | INTERIOR, ANTI-SIPHON WALL HYDRANT |
| OB-1 | OUTLET BOX | OATEY | 39140 | - | - | 1/2" | - | |
| TMV-1 | THERMOSTATIC MIXING VALVE | LEONARD | TM-420 B-LF-DT | - | - | 3/4" | 3/4" | SET TO 110 DEGREE OUTLET TEMP. |
| MSB-1 | MOP SINK BASIN | FIAT | TSB3003 | 2" | 1-1/2" | - | - | 24" X 36" FLOOR SET, SS CAPS |
| | MOP SINK FAUCET | FIAT | 830-AA | - | - | 1/2" | 1/2" | - |
| EWC-1 | ELECTRIC WATER COOLER | ELKAY | EZH20 | 1-1/2" | 1" | 1/2" | - | BI-LEVEL ADA COOLER WITH BOTTLE FILLER |
| GD-1 | GARBAGE DISPOSAL | INSINKERATOR | EVOLUTION | - | - | - | - | INSTALL BELOW COUNTER |
| OB-1 | OUTLET BOX | SIOUX CHEIF | 696-G1010MF | - | - | - | - | REFRIGERATOR/ICEMAKER OUTLET BOX; WITH ARRESTORS |

| | | | | DRAIN S | CHEDUL | E (BASIS OF DESIGN) | | | | | |
|---------|--|-----------|-----|--------------|--------|---|--|--|--|--|--|
| MARK | ARK MANUFACTURER MODEL # GRATE BODY STRAINER REMARKS | | | | | | | | | | |
| FD-1 | JAY R. SMITH | 2110 | NB | CI | SS | PROVIDE WITH TRAP GUARD TRAP SEAL, SURESEAL OR ENGINEER APPROVED EQUAL. | | | | | |
| FCO | SIOUX CHIEF | 834-64DNR | N/A | DUCTILE IRON | N/A | NICKLE BRONZE ROUND COVER PLATE. | | | | | |
| REMARKS | S: NB NICKEL BRONZE SS STAINLESS STE CI CAST IRON - INDICATES NOT | EL | | | | | | | | | |

| | | DRAIN | NOZZLE | SCHEDU | LE |
|------|--------------|---------|---------------|---------------|---------------------------------------|
| MARK | MANUFACTURER | MODEL # | SIZE | FINISH | REMARKS |
| DS-1 | J.R. SMITH | 1771 | PER PIPE SIZE | NICKEL BRONZE | COORDINATE CUSTOM COLOR WITH ARCHITEC |
| | | | | | |

- 20. CAULK ALL PIPING PENETRATIONS THROUGH WALLS TO MINIMIZE SOUND PENETRATION THROUGH WALLS.
- 21. INVERT ELEVATIONS ARE BASED ON FIRST FLOOR LEVEL BEING SET AT 100'-0".
- 26. EXCAVATION, BEDDING AND BACKFILL ASSOCIATED WITH BELOW SLAB PIPING INSTALLATION SHALL BE CONSIDERED PART OF THE PLUMBING CONTRACTOR'S WORK.
- 27. STARTING ELEVATION FOR SANITARY SEWER PIPING TO BE NOT LESS THAN 1'-6" BELOW FINISHED FLOOR UNLESS NOTED OTHERWISE.
- 28. ALL PLUMBING PIPING IN FINISHED ROOMS, OPEN TO STRUCTURE SHALL BE PAINTED TO MATCH STRUCTURE. DOMESTIC WATER PIPING SHALL BE PAINTED WITH PAINT THAT HAS ELASTOMERIC PROPERTIES, SUITABLE FOR PAINTING PLASTIC MATERIALS. FOLLOW PAINT MANUFACTURER'S INSTRUCTIONS FOR PIPE SURFACE PREPARATION AND PAINT APPLICATION.



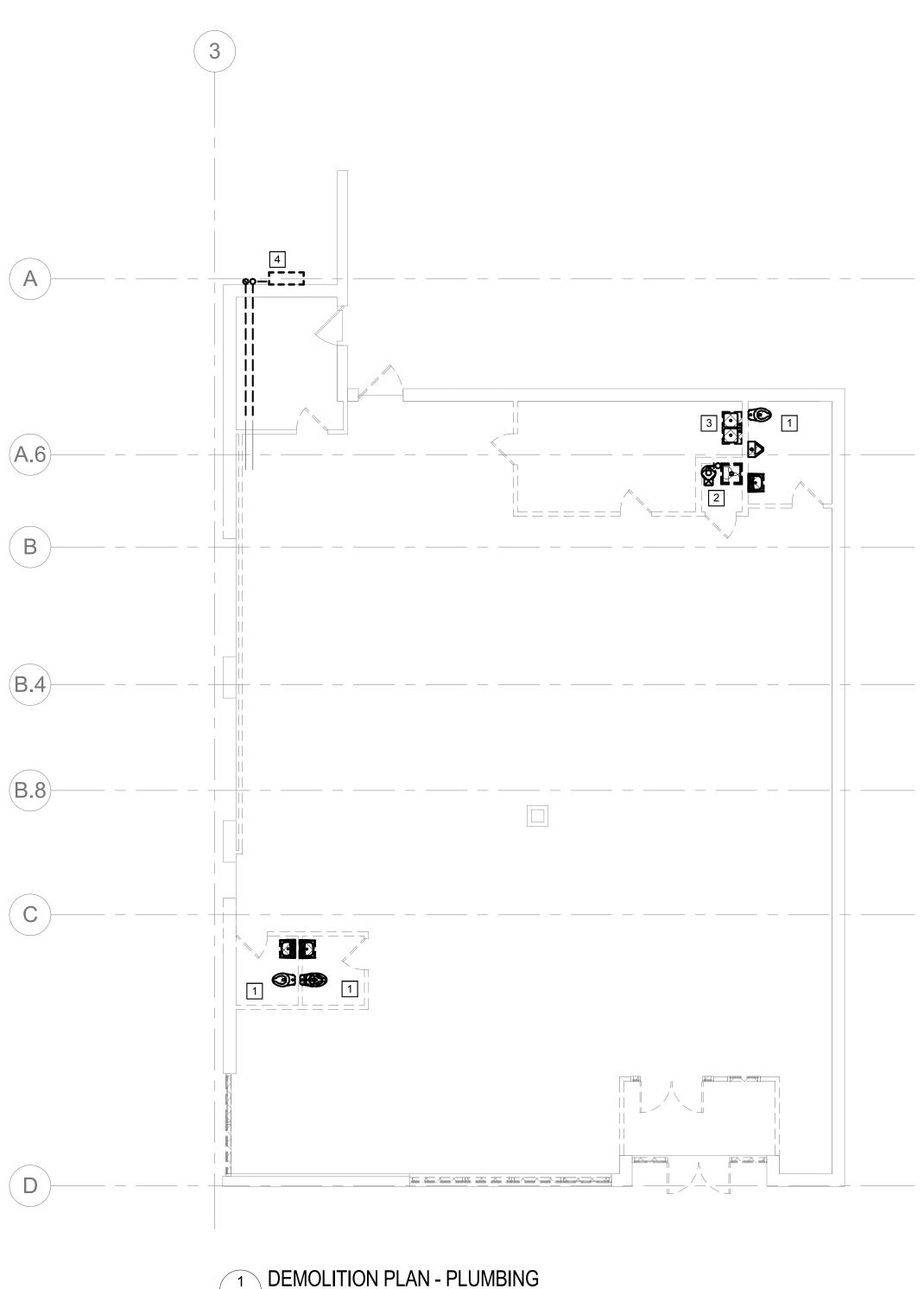
| | ELECTRIC WATER HEATER SCHEDULE | | | | | | | | | | |
|-------|--------------------------------|-------------|---------|----------------------|----------------------------|--------|----------|--|--|--|--|
| MARK | MANUFACTURER | MODEL NO. | STORAGE | OUTLET TEMPRATURE | RECOVERY AT 100° F RISE | INPUT | COMMENTS | | | | |
| EWH-1 | A.O. SMITH | DEL-10D-4.5 | 10 GAL | 140 | 18 GAL | 4.5 KW | | | | | |
| | | | | | | | | | | | |

THE PROFESSIONAL ENGINEER'S SEAL AFFIXED TO THIS SHEET APPLIES ONLY TO THE MATERIAL AND ITEMS SHOWN ON THIS SHEET. ALL DRAWINGS, INSTRUMENTS OR OTHER DOCUMENTS NOT EXHIBITING THIS SEAL SHALL NOT BE CONSIDERED PREPARED BY THIS ENGINEER, AND THIS ENGINEER EXPRESSLY DISCLAIMS ANY AND ALL RESPONSIBILITY FOR SUCH PLAN, DRAWINGS OR DOCUMENTS NOT EXHIBITING THIS SEAL.

DI LIMBING SYMBOLS AND ABBREVIATIONS

| SYMBOL DESCRIPTION Image: Construction of FLOW OR SLOPE DOMESTIC COLUWATER (CM) Image: Construction of FLOW OR SLOPE DOMESTIC COLUWATER (CM) Image: Construction of FLOW OR SLOPE DOMESTIC COLUMATER (CM) Image: Construction of FLOW OR SLOPE DOMESTIC COLUMATER (CM) Image: Construction of FLOW OR SLOPE DOMESTIC COLUMATER (CM) Image: Construction of FLOW OR SLOPE DOMESTIC COLUMATER (CM) Image: Construction of FLOW OR SLOPE SANITARY SEWER BELOW SLAB (S) Image: Construction of FLOW OR SLOPE SANITARY SEWER BELOW SLAB (S) Image: Construction of FLOW OR SLOPE SANITARY SEWER BELOW SLAB (S) Image: Construction of FLOW OR SLOPE NATURAL GAS (G) Image: Construction of FLOW OR ONN BRANCH CONNECTION - TOP Image: Construction of FLOW OR ONN BRANCH CONNECTION - TOP Image: Construction of FLOW OR ONN BRANCH CONNECTION - EDUTOM Image: Construction of FLOW OR CONNECTION CONSTruct CIRCULATING PUMP (DCP) Image: Construction of FLOW OR ONN DOM Image: Construction of FLOW OR ONN FLOW OR ORAIN (FD) Image: Construction of FLOW OR CLANOUT (FCO) Image: Construction of FLOW OR ONN Image: Construction of FLOW OR CLANOUT FLOW OR ONN Image: Construction of FLOW OR CLANOUT FLOW OR CLANOUT Image: Construction of FLOW OR CLANO | |
|--|-------|
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| DOMESTIC HOT WATER (HW) S < | |
| HOT WATER CIRCULATING (HWC) S | |
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| CFHCUBIC FEET PER HOURCICAST IRONCOCLEANOUTDNDOWNDPDROPDSDOWNSPOUTDWVDRAIN WASTE VENTEWCELECTRIC WATER COOLEREXIST.EXISTINGFCOFLOOR CLEANOUTFLAFULL LOAD AMPSGPHGALLONS PER HOURGPMGALLONS PER MINUTEI.E. OR INV. ELEV.INVERT ELEVATIONLALAVATORYMBMOP BASINM.C.MECHANICAL CONTRACTOR | |
| CICAST IRONCOCLEANOUTDNDOWNDPDROPDSDOWNSPOUTDWVDRAIN WASTE VENTEWCELECTRIC WATER COOLEREXIST.EXISTINGFCOFLOOR CLEANOUTFLAFULL LOAD AMPSGPHGALLONS PER HOURGPMGALLONS PER MINUTEI.E. OR INV. ELEV.INVERT ELEVATIONLALAVATORYMBMOP BASINM.C.MECHANICAL CONTRACTOR | |
| COCLEANOUTDNDOWNDPDROPDSDOWNSPOUTDWVDRAIN WASTE VENTEWCELECTRIC WATER COOLEREXIST.EXISTINGFCOFLOOR CLEANOUTFLAFULL LOAD AMPSGPHGALLONS PER HOURGPMGALLONS PER MINUTEI.E. OR INV. ELEV.INVERT ELEVATIONLALAVATORYMBMOP BASINM.C.MECHANICAL CONTRACTOR | |
| DNDOWNDPDROPDSDOWNSPOUTDWVDRAIN WASTE VENTEWCELECTRIC WATER COOLEREXIST.EXISTINGFCOFLOOR CLEANOUTFLAFULL LOAD AMPSGPHGALLONS PER HOURGPMGALLONS PER MINUTEI.E. OR INV. ELEV.INVERT ELEVATIONLALAVATORYMBMOP BASINM.C.MECHANICAL CONTRACTOR | |
| DSDOWNSPOUTDWVDRAIN WASTE VENTEWCELECTRIC WATER COOLEREXIST.EXISTINGFCOFLOOR CLEANOUTFLAFULL LOAD AMPSGPHGALLONS PER HOURGPMGALLONS PER MINUTEI.E. OR INV. ELEV.INVERT ELEVATIONLALAVATORYMBMOP BASINM.C.MECHANICAL CONTRACTOR | |
| DWVDRAIN WASTE VENTEWCELECTRIC WATER COOLEREXIST.EXISTINGFCOFLOOR CLEANOUTFLAFULL LOAD AMPSGPHGALLONS PER HOURGPMGALLONS PER MINUTEI.E. OR INV. ELEV.INVERT ELEVATIONLALAVATORYMBMOP BASINM.C.MECHANICAL CONTRACTOR | |
| EWCELECTRIC WATER COOLEREXIST.EXISTINGFCOFLOOR CLEANOUTFLAFULL LOAD AMPSGPHGALLONS PER HOURGPMGALLONS PER MINUTEI.E. OR INV. ELEV.INVERT ELEVATIONLALAVATORYMBMOP BASINM.C.MECHANICAL CONTRACTOR | |
| EXIST.EXISTINGFCOFLOOR CLEANOUTFLAFULL LOAD AMPSGPHGALLONS PER HOURGPMGALLONS PER MINUTEI.E. OR INV. ELEV.INVERT ELEVATIONLALAVATORYMBMOP BASINM.C.MECHANICAL CONTRACTOR | |
| FCOFLOOR CLEANOUTFLAFULL LOAD AMPSGPHGALLONS PER HOURGPMGALLONS PER MINUTEI.E. OR INV. ELEV.INVERT ELEVATIONLALAVATORYMBMOP BASINM.C.MECHANICAL CONTRACTOR | |
| FLAFULL LOAD AMPSGPHGALLONS PER HOURGPMGALLONS PER MINUTEI.E. OR INV. ELEV.INVERT ELEVATIONLALAVATORYMBMOP BASINM.C.MECHANICAL CONTRACTOR | |
| GPHGALLONS PER HOURGPMGALLONS PER MINUTEI.E. OR INV. ELEV.INVERT ELEVATIONLALAVATORYMBMOP BASINM.C.MECHANICAL CONTRACTOR | |
| GPMGALLONS PER MINUTEI.E. OR INV. ELEV.INVERT ELEVATIONLALAVATORYMBMOP BASINM.C.MECHANICAL CONTRACTOR | |
| LA LAVATORY MB MOP BASIN M.C. MECHANICAL CONTRACTOR | |
| MB MOP BASIN M.C. MECHANICAL CONTRACTOR | |
| M.C. MECHANICAL CONTRACTOR | |
| | |
| | |
| ODN OVERFLOW DOWN SPOUT NOZZLE | |
| ODS OVERFLOW DOWN SPOUT | |
| P.C. PLUMBING CONTRACTOR SK SINK | |
| SQ. FT. SQUARE FEET | |
| SS SANITARY STACK | |
| TMV THERMOSTATIC MIXING VALVE | |
| TYP TYPICAL | |
| UR URINAL | |
| VS VENT STACK | |
| VTR VENT THRU ROOF WC WATER CLOSET | |
| WC WATER CLOSET WCO WALL CLEANOUT | |
| WH WALL HYDRANT | |
| WHA WATER HAMMER ARRESTOR | |
| YCO YARD CLEAN OUT | |
| *NOTE: NOT ALL SYMBOLS/ABBREVIATIONS USED FOR THIS PROJECT. | |





PD-201 1/8" = 1'-0"

THE PROFESSIONAL ENGINEER'S SEAL AFFIXED TO THIS SHEET APPLIES ONLY TO THE MATERIAL AND ITEMS SHOWN ON THIS SHEET. ALL DRAWINGS, INSTRUMENTS OR OTHER DOCUMENTS NOT EXHIBITING THIS SEAL SHALL NOT BE CONSIDERED PREPARED BY THIS ENGINEER, AND THIS ENGINEER EXPRESSLY DISCLAIMS ANY AND ALL RESPONSIBILITY FOR SUCH PLAN, DRAWINGS OR DOCUMENTS NOT EXHIBITING THIS SEAL.

GENERAL NOTES

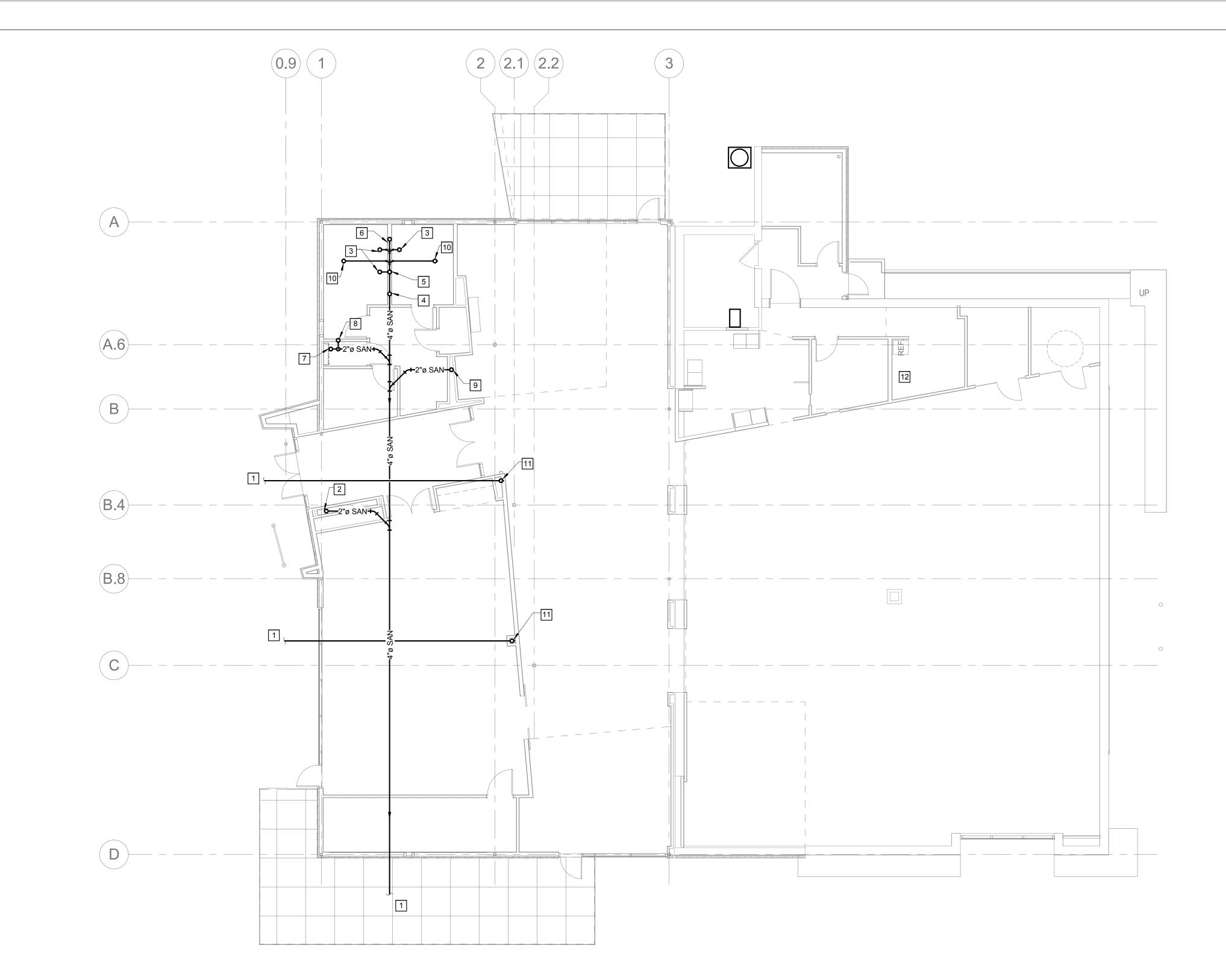
1 SEE SHEET P-001 FOR GENERAL NOTES THAT APPLY TO THIS SHEET.

KEYED NOTES

- 1 REMOVE ALL PLUMBING FIXTURES IN RESTROOM. DEMOLISH CW, HW, AND SANITARY, THAT IS SERVED FROM BELOW, TO SLAB AND CAP AND ABANDON PIPING. DEMOLISH EXISTING VENT PIPING SERVING FIXTURES.
- 2 REMOVE EXISTING WATER HEATER AND MOP SINK BASIN. DEMOLISH CW, HW, AND SANITARY THAT IS SERVED FROM BELOW, TO SLAB AND CAP AND ABANDON PIPING. DEMOLISH EXISTING VENT SERVING MOP SINK BASIN.
- 3 REMOVE EXISTING SINK. DEMOLISH CW, HW, AND SANITARY, THAT IS SERVED FROM BELOW, TO SLAB AND CAP AND ABANDON PIPING. DEMOLISH EXISTING VENT PIPING SERVING SINK.
 4 REMOVE EXISTING NATURAL GAS METER AND GAS PIPING TO
- POINT INDICATED.

#





1 FLOOR PLAN - FOUNDATION - PLUMBING P-200 1/8" = 1'-0"

THE PROFESSIONAL ENGINEER'S SEAL AFFIXED TO THIS SHEET APPLIES ONLY TO THE MATERIAL AND ITEMS SHOWN ON THIS SHEET. ALL DRAWINGS, INSTRUMENTS OR OTHER DOCUMENTS NOT EXHIBITING THIS SEAL SHALL NOT BE CONSIDERED PREPARED BY THIS ENGINEER, AND THIS ENGINEER EXPRESSLY DISCLAIMS ANY AND ALL RESPONSIBILITY FOR SUCH PLAN, DRAWINGS OR DOCUMENTS NOT EXHIBITING THIS SEAL.

GENERAL NOTES

SEE SHEET P-001 FOR GENERAL NOTES THAT APPLY TO THIS SHEET.

KEYED NOTES

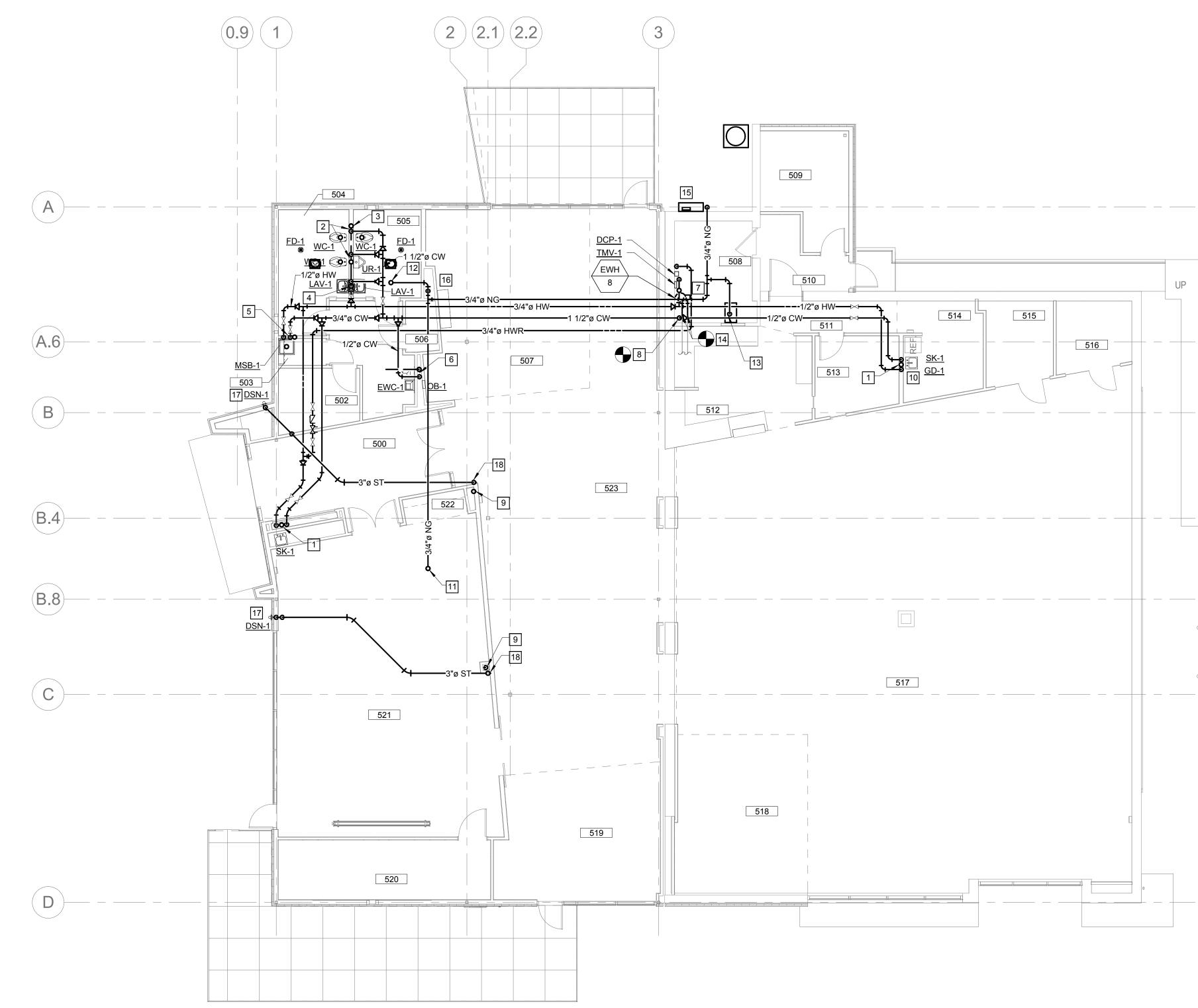
- 1 SEE CIVIL PLANS FOR CONTINUATION.
- 2 2" SANITARY UP TO SK-1.

#

- 3 4" SANITARY UP TO WC-1.
- 4 2" SANITARY UP TO TWO LAV-1.
- 5 2" SANITARY UP TO UR-1.
- 6 4" SANITARY UP TO WALL CLEANOUT. 7 2" SANITARY UP TO MSB-1.
- 8 2" VENT UP THROUGH WALL. SEE P-201 FOR CONTINUATION. 9 2" SANITARY UP TO EWC-1.
- 10 4" SANITARY UP TO FD-1.
- 11 3" STORM UP THROUGH SLAB. SEE P-201 FOR CONTINUATION. 12 CONTRACTOR TO FIELD ROUTE 2" SANITARY FROM SK-1 TO EXISTING SANITARY PIPING.



Scenic



1 FLOOR PLAN - FIRST FLOOR - PLUMBING P-201 1/8" = 1'-0"

#

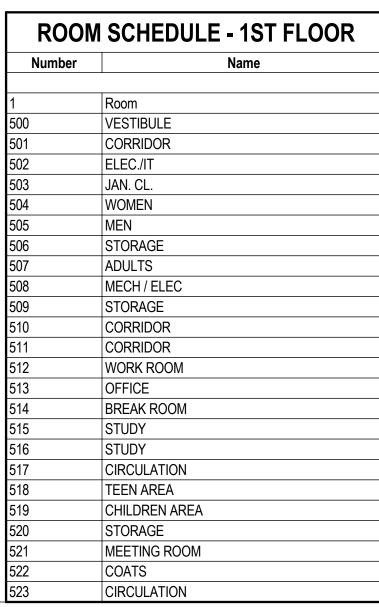
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GENERAL NOTES

SEE SHEET P-001 FOR GENERAL NOTES THAT APPLY TO THIS SHEET.

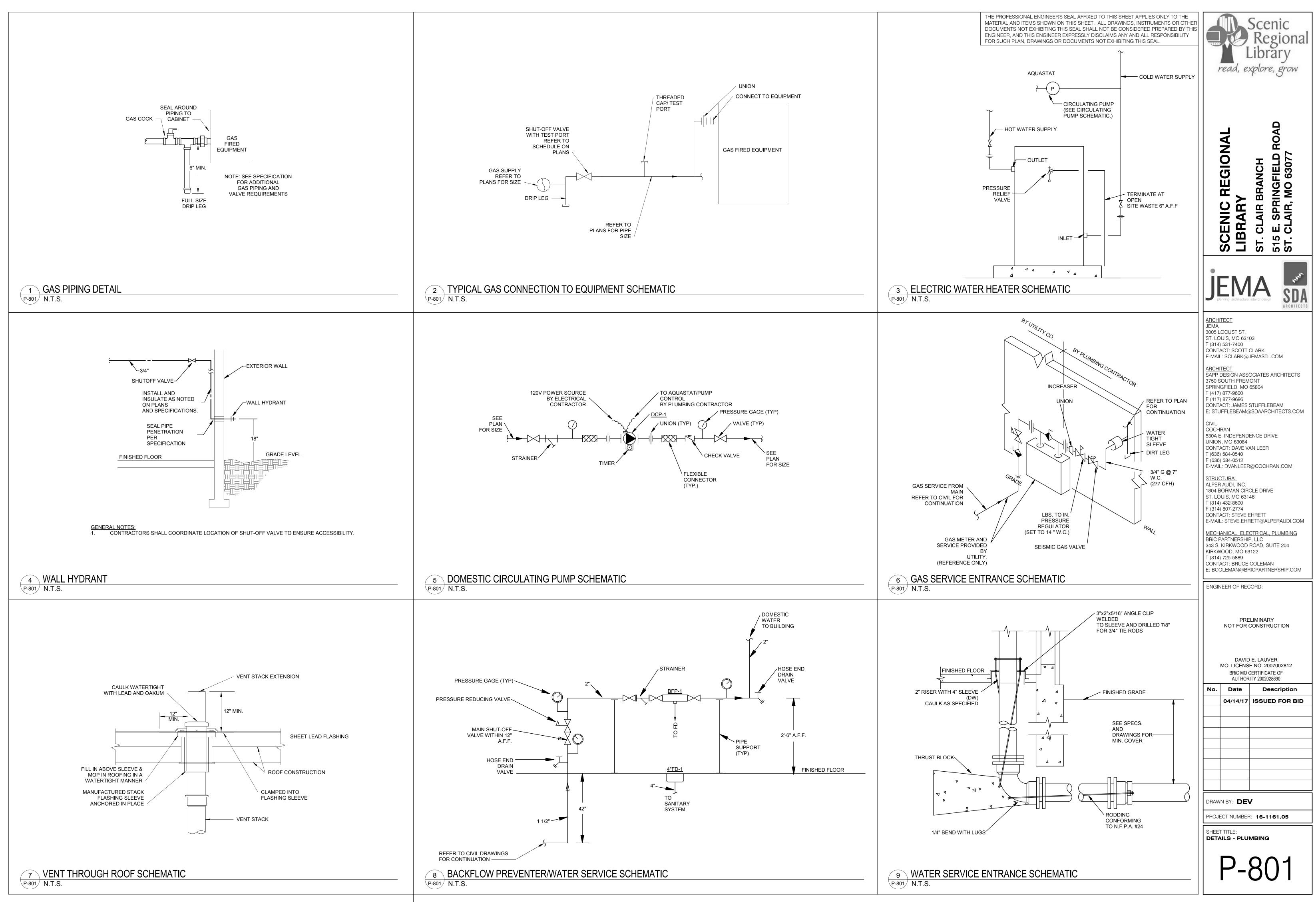
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- 1 1/2" CW AND HW DOWN AND 2" VENT UP FROM SK-1. EXTEND VENT UP THROUGH ROOF.
- 2 1 1/4" CW DOWN TO WC-1.
- 3 CONNECT VENT PIPING FROM RESTROOM FIXTURES TO 2" STACK. TRANSITION 2" VENT TO 3" VENT UP THROUGH ROOF.
- 4 1/2" CW AND HW DOWN AND 2" VENT UP FROM TWO LAV-1.
- 5 1/2" CW AND HW DOWN AND 2" VENT UP FROM MSB-1. EXTEND VENT UP THROUGH ROOF.
- 6 1/" CW DOWN TO EWC-1 AND OB-1. 1 1/2" VENT UP FROM EWC-1. EXTEND 1 1/2" VENT UP THROUGH ROOF.
- SEE DETAIL FOR EWH-1 PIPING REQUIREMENTS.
- 8 CONNECT TO EXISTING COLD WATER PIPE STUB THROUGH FLOOR. ROUTE 3/4" PIPE OVER TO EWH-1 AND 1 1/2" CW PIPE UP. 9 3" STROM FROM ROOF DRAIN DOWN THROUGH SLAB. SEE SHEET P-200 FOR CONTINUATION.
- 10 CONTRACTOR TO FIELD ROUTE SAW CUT AND FIELD ROUTE SANITARY TO EXISTING SYSTEM.
- 11 3/4" NG UP TO RTU-6. COORDINATE LOCATION WITH RTU MANUFACTURER DIMENSIONS.
- 12 3/4" NG UP TO RTU-5. COORDINATE LOCATION WITH RTU
- MANUFACTURER DIMENSIONS.
- 13 3/4" NG DOWN TO FC-1. 14 CONNECT TO EXISITNG NATURAL GAS PIPING THAT SERVES EXISTING RTUS.
- 15 LOCATION OF NEW GAS METER. SEE DETAIL FOR ADDITIONAL REQUIREMENTS.
- 16 3/4" NG DOWN IN WALL TO FIREPLACE. 17 3" STORM DOWN TO DSN-1. DSN-1 SHALL TERMINATE 18" ABOVE GRADE.
- 18 3" STROM OVERFLOW FROM ROOF DRAIN.





P-20



ELECTRICAL ABBREVIATIONS:

| A.F. | AMP FUSE. USED IN CONJUNCTION WITH "A.S." | | ALL CIRCUITS SHAL |
|-------------|--|-----------------------------|---|
| A.F.F | . ABOVE FINISHED FLOOR. | (\mathbf{J}) | CEILING-MOUNTED |
| A.S. | AMP SWITCH USED IN CONJUNCTION WITH "A.F." OR "N.F." | | |
| С | IN STATEMENT IS ABBREVIATION FOR "CONDUIT." | J | WALL-MOUNTED JU |
| CAF0 CKT | COMBINATION ARC FAULT CIRCUIT INTERRUPTER BREAKER. | FB# | FLOORBOX FB# INDICATES FLO |
| CLG | INSTALL DEVICE EITHER AT OR 12" BELOW FINISHED CEILING. | | FB1 - FLOOR BOX POWER: |
| E.C. | ELECTRICAL CONTRACTOR (DIVISION 16) | | (1) 5-20 DUP |
| E.M. | EQUIPMENT MANUFACTURER. | | COMMUNICA (1) DATA OU |
| ETR | EXISTING TO REMAIN. | | FB2 - FLOOR BOX |
| EX | INDICATES DEVICE IS EXISTING. | | POWER: (2) 5-20 DUP |
| F.B.C | D. FURNISHED BY OTHERS | | COMMUNICA |
| FS | FUSIBLE SWITCH. | | (2) DATA OU FB3 - FLOOR BOX |
| GD | GARAGE DOOR INSTALLER. | | POWER: (2) 5-20 DUP |
| GFI | GROUND FAULT INTERRUPT PROTECTION. | | FB4 - FLOOR BOX |
| HP | | | POWER: (1) 208V/2P E |
| IG LVC | ISOLATED / INSOLATED GROUND DEVICE. | | 120V WHIP (: WITH SHAF |
| M.C. | MECHANICAL CONTRACTOR (DIVISION 15). | | |
| NF | NOT FUSED / NON-FUSIBLE SWITCH. | | PROVIDE CA |
| NIC | NOT IN CONTRACT. | LP1 | PANELBOARD LOCA |
| OC | 6" OVER (ABOVE) COUNTER LEVEL. | $\langle A \rangle$ | FEEDER SCHEDULE |
| P.C. | PLUMBING CONTRACTOR (DIVISION 15). | | MECHANICAL EQUIF |
| REL | RELAY. | $\langle 1 \rangle$ | MECHANICAL EQUIF |
| TV | TELEVISION | | CIRCUIT CONDUIT R |
| U.N.(| D. UNLESS NOTED OTHERWISE. |) ∳ - | CONDUCTOR, ONE (CONDUCTORS RESI |
| UCR | UNDER COUNTER REFRIGERATOR. | | CONDUCTOR. ALL C |
| UPS | UNINTERRUPTIBLE POWER SUPPLY. | | CIRCUIT/CONDUIT "I |
| VFD | VARIABLE FREQUENCY DRIVE. | · | CONDUIT ROUTED L |
| W | | | |
| WP | WEATHERPROOF IN-USE COVER. | | CONDUIT ROUTED I |
| <u>EL</u> | ECTRICAL INSTALLATION NOTES: | | CONDUIT ROUTED E |
| 1. | THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADAAG | O | CONDUIT TURNING |
| | (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES). | | CONDUIT TURNING |
| 2. | CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE. | | GROUND CONNECT LOCATION. |
| 3. | CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, AND IN FLOOR | \$ _{MP} | MOTOR STARTING S MOTOR. "P" INDICAT |
| | SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS, AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE. | | MOTOR CONNECTIO |
| 4. | BOXES LOCATED ON OPPOSITE SIDE OF NON-RATED WALLS SHALL BE OFFSET A | \ | |
| | MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE | ۲ | POWER POKE-THRU CONDUIT CONNECT |
| 5. | ARCHITECT / ENGINEER. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL DETECTORS AND . OR | □- ^{90A} 3-POLE | ELECTRICAL DISCO |
| 5. | SPEAKERS WITH LUMINARIES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS SHALL BE LOCATED NO | | PUSHBUTTON. |
| 6. | CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE. | | |
| 0. | EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS AND REVIEW SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND / OR EQUIPMENT. | | <u>COMMUNI</u> |
| 7. | WALL MOUNTED DEVICES (STROBES, PULL STATIONS, SPEAKERS, SENSORS, RECEPTACLES, LIGHT SWITCHES, ETC.) THAT ARE LOCATED WITHIN +/- 2' HORIZONTALLY OFF A LOWER DEVICE(S), ALL DEVICES SHALL BE ALIGNED VERTICALLY AND RACEWAYS ROUTED AS REQUIRED TO ALLOW THE DEVICES TO DE MOUNTED VERTICALLY | \bigtriangledown^{A} | COMMUNICATION R 2-1/8" DEEP BOX MO OTHERWISE PROVID BUSHING ROUTED I STRING AND BLANK |
| 8. | BE MOUNTED VERTICALLY. ELECTRICAL EQUIPMENT SHALL BE MOUNTED TO AVOID THE IMPEDANCE OF OPERATION AND / OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL GEAR ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR. | ▼ ^A | |
| 9. | TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TELECOMMUNICATION DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SUMMER APPROVED IN ADVIANCE BY THE OTHER CONTRACTOR | | CABLING AND JACK INDICATES CABLING CABLING REQUIREM |
| 10. | CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR. ALL FINAL ELECTRICAL CONNECTIONS TO MOTORS SHALL BE MADE WITH | | "#A" - TEL |
| ιU. | FLEXIBLE METAL CONNECTIONS TO MOTORS SHALL BE MADE WITH FLEXIBLE METAL CONDUIT. USE LIQUIDTIGHT CONDUIT AND FITTING WHERE SUBJECT TO MOISTURE. ROUTE GROUND WIRE FROM CIRCUIT GROUND TO MOTOR GROUND THROUGH FLEXIBLE CONDUIT. FLEXIBLE CONDUIT SHALL NOT EXCEED 6' IN LENGTH. | | "WA" - WA BAS "#D" - DA ⁻ |
| 11 | CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS | | |

- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
- 12. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOOR SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOP.
- 13. CONTRACTOR SHALL INSTALL AT EACH SERVICE ENTRANCE A PERMANENT DIRECTORY ACCORDING TO ARTICLE 230 OF THE NATIONAL ELECTRIC CODE.
- 14. CONTRACTOR SHALL REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.
- 15. UNLESS OTHERWISE STATED, THE MINIMUM CIRCUIT SHALL BE (2) #12 AND (1) #12 GND IN 3/4" CONDUIT FOR IN DOORS OR IN 1" CONDUIT FOR EXTERIOR APPLICATIONS.

CATION OUTLET IN RECESSED WALL BOX. PROVIDE MINIMUM 1/8" DEEP BOX MOUNTED 18" ABOVE FLOOR. UNLESS NOTED E PROVIDE SINGLE GANG MUD RING AND 3/4" CONDUIT WITH OUTED INTO AN ACCESSIBLE CEILING SPACE. PROVIDE ND JACKS AS DENOTED (SEE BELOW), "#A" (TYPICAL) CABLING AND CONNECTIVITY REQUIREMENTS.

EQUIREMENTS

- TELEPHONE CABLE (CAT 5e) A" - WALL PHONE, MOUNT 48" A.F.F. FACEPLATE SHALL HAVE BASE UNIT MOUNTING STUDS - DATA CABLE (CAT 6). "WAP" - WIRELESS ACCESS POINT. PROVIDE CAT6 WITH MALE RJ45

| ¥ | TV CONNECTION. I SHALL HAVE POW PROVIDE 1" C. FOR SERVER TO BOX A |
|---|--|
| | |

ELECTRICAL SYMBOLS:

TS SHALL BE (2) #12's WITH (1) #12 GND MINIMUM U.N.O.

DUNTED JUNCTION BOX (4"x4"x1-1/2" MIN.)

INTED JUNCTION BOX (4"x4"x1-1/2" MIN.)

TES FLOOR BOX REQUIREMENTS

5-20 DUPLEX RECEPTACLES.

MMUNICATIONS: DATA OUTLETS (RJ-45).

5-20 DUPLEX RECEPTACLES. MMUNICATIONS:

DATA OUTLETS (RJ-45).

5-20 DUPLEX RECEPTACLES.

| 2P BREAKER WITH P (3) #12, (1) #12 GND, 1" C IARED NEUTRAL. | \ominus |
|---|----------------|
| IICATIONS: CAT6 DATA CONNECTION PER FLOOR PLAN. | |
| CATION ON PLANS. "LNL1" INDICATES DESIGNATION. | ∰- |
| JLE NOTE. "A" INDICATES FEEDER IN SCHEDULE. | \blacksquare |

AL EQUIPMENT DESIGNATION. "CU-1" INDICATES ITEM IN AL EQUIPMENT DATA SCHEDULE. REFER TO MECHANICAL SCHEDULE FOR ADDITION REQUIREMENTS.

ONDUIT ROUTING. 📲 " INDICATES ONE (1) GROUND OR, ONE (1) NEUTRAL CONDUCTOR AND TWO (2) PHASE DRS RESPECTIVELY. ") "INDICATES ISOLATED GROUND OR. ALL CONDUCTORS SHALL BE #12 AWG MINIMUM U.N.O.

ONDUIT "HOMERUN".

ROUTED UNDER SLAB.

ROUTED IN CEILING SPACE OF LEVEL BELOW.

ROUTED EXPOSED AS SHOWN.

URNING UP.

URNING DOWN.

CONNECTION OR LIGHTNING PROTECTION GROUND ROD

ARTING SWITCH. MOUNT AT 48" A.F.F. U.N.O. "M" INDICATES " INDICATES WITH PILOT LIGHT.

NNECTION. "1" INDICATES HORSEPOWER.

OKE-THRU DEVICE. PROVIDE ADAPTER PLATE FOR FLEXIBLE ONNECTION.

L DISCONNECT, SUBTEXT DENOTES DISC. AMP RATING AND F CONDUCTORS.

MUNICATION SYMBOLS:

ATION ROUGH-IN ONLY WALL BOX. PROVIDE MINIMUM 4" x 4" x BOX MOUNTED 18" ABOVE FLOOR. UNLESS NOTED E PROVIDE SINGLE GANG MUD RING AND 3/4" CONDUIT WITH OUTED INTO AN ACCESSIBLE CEILING SPACE. PROVIDE PULL D BLANK FACEPLATE.

NOTE: NUMBER (#) BEFORE CABLE TYPE INDICATES QUANTITY

. PROVIDE WIREMOLD EVOLUTION WALL BOXES. BOX VER AND DATA ON TOP WITH SPACE ON BOTTOM. R DATA AND 3/4" C. FOR POWER. PROVIDE CAT6 FROM AND PROVIDE TERMINATION TO CABLE.

VC VOLUME CONTROLLER FOR SPEAKERS

RECEPTACLE SYMBOLS:

TYPE DESIGNATION:

| "SW"- NEMA 5-20R GROUND TYPE DUPLEX RECEPTACLE CIRCUIT THROUGH LOCAL OCCUPANCY SENSOR CONTACTOR LOCATED ABOVE CEILING. REFER TO LIGHTING PLAN FOR LOCATION OF CONTACTOR. |
|---|
| "TVSS"-NEMA 5-20R SURGE SUPPRESSION TYPE DUPLEX RECEPTACLE. |

"MW"- MICROWAVE RECEPTACLE.

"TV"- TV RECEPTACLE. MOUNT ADJACENT TO TV OUTLET. REFER TO COMMUNICATIONS FLOOR PLANS FOR TV OUTLET LOCATIONS.

"EWC"- ELECTRIC WATER COOLER RECEPTACLE: CONCEALED BEHIND WATER COOLER ACCESS PLATE OR DIRECTLY BELOW AND CENTER ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED.

"H"- MOUNT OUTLET HORIZONTALLY.

"G"- INDICATES A 5-20 RECEPTACLE (NON-GFCI) PROTECTED BY GFCI PROTECT CIRCUIT BREAKER. PROVIDE PERMANENT LABEL.

"A"- INDICATES A 5-20 RECEPTACLE (NON-AFCI) PROTECTED BY AFCI PROTECT CIRCUIT BREAKER. PROVIDE PERMANENT LABEL.

- NEMA 5-20R GROUND TYPE DUPLEX RECEPTACLE. SUBSCRIPT INDICATES TYPE. MOUNT AT 18" A.F.F. UNLESS NOTED OTHERWISE.
- NEMA 5-20R G.F.I. DUPLEX RECEPTACLE. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- NEMA 5-20R DOUBLE DUPLEX RECEPTACLE. SUBSCRIPT INDICATES
- NEMA 5-20R G.F.I. DOUBLE DUPLEX RECEPTACLE. MOUNT 18" A.F.F.
- UNLESS NOTED OTHERWISE.
- NEMA 5-20R GROUND TYPE SIMPLEX RECEPTACLE. SUBSCRIPT INDICATES TYPE. MOUNT AT 18" A.F.F. U.N.O.

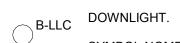
TYPE. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE.

- SPECIAL PURPOSE RECEPTACLE AS INDICATED ON DRAWINGS SUBSCRIPT INDICATES TYPE. MOUNT AT 18" A.F.F. U.N.O.
- CORD REEL RECEPTACLE. REFER TO DETAIL ON FLOOR PLAN.

LIGHTING SYMBOLS:

" | "INDICATES FOR DEVICE TO BE WALL-MOUNTED

ALL CIRCUITS SHALL BE (2) #12's WITH (1) #12 GND MINIMUM U.N.O.



 \circ

 \ominus

-

23,a,b,c SYMBOL NOMENCLATURE:

"B"- INDICATES FIXTURE TYPE.

"23"- NUMBER DESIGNATES FIXTURE CIRCUIT.

"LLC"- FIXTURE CONTROLLED BY LIGHTING CONTROL SYSTEM REFER TO LIGHTING CONTROL DIAGRAM FOR DEVICES AND CONTROLS.

"a,b,c"- FIXTURE CONTROLLED BY LOCAL SWITCH REFER TO LIGHTING CONTROL SYMBOL FOR CONTROL METHOD

TYPICAL OF ALL LIGHT FIXTURES. SEE LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION.

WALL MOUNTED DOWNLIGHT.

LIGHT FIXTURE. SIZE AS INDICATED.

WALL MOUNTED LIGHT FIXTURE.

 \vdash \bigcirc STRIP LIGHT FIXTURE.

EMERGENCY STRIP LIGHT FIXTURE.

 $\langle \rangle$ EMERGENCY DOWNLIGHT.

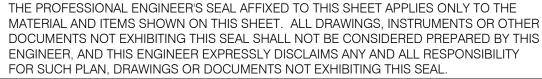
CEILING MOUNTED EMERGENCY LIGHT FIXTURE.

EXIT LIGHT FIXTURE. PROVIDE WITH ARROWS AS INDICATED.

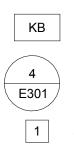
() DECORATIVE POST TOP SITE LIGHTING FIXTURE.

POLE MOUNTED SITE LIGHTING FIXTURE.

CEILING FAN - REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE.



OTHER:



KNOCK BOX, PROVIDED BY OTHERS. PROVIDE MONITOR MODULE AS INDICATED ON PLANS.

> DETAIL REFERENCE. "4" INDICATES DETAIL # "E301" INDICATES SHEET. REFER TO DETAIL FOR ADDITIONAL REQUIREMENTS.

1 SHEET KEYED NOTE "1" INDICATES NOTE #.

| | LIGHTI | NG CONTROL SYMBOLS: | | |
|------------|--|---|--|--|
| \$ ' | WALL SWITCH. MOUNT AT 48" A.F.F. U.N.O. UPPER CASE SUBSCRIPT INDICATES TYPE LOWER CASE SUBSCRIPT INDICATES SWITCH LEG. SUBSCRIPTS 3, 4 INDICATE THREE WAY AND FOUR WAY RESPECTIVELY. | | | |
| | TYPE DESIGN/ | ATION | | |
| | "DM"- | DIMMER CONTROL. | | |
| | "LV"- | INDICATES 0-10V AND TO PROVIDE POWER PACK FOR SWITCH AND OCCUPANCY SENSOR. | | |
| | "NL"- | NIGHT LIGHT FIXTURE CIRCUIT TO PANELBOARD "MAIN" WITH NO LOCAL CONTROL. | | |
| | "OS"- | DUAL (PIR AND ULTRASONIC) OCCUPANCY SENSOR WALL SWITCH. | | |
| | "110i" | NUMBER INDICATE ROOM NUMBER. LETTER INDICATES SWITCH NUMBER IN THE ROOM. | | |
| PC | PHOTO CELL [| DEVICE. | | |
| С | CONTACTOR. | | | |
| LCPS | LIGHTING CON CEILING. | ITROL POWER STATION. MOUNT ON 4" x 4" BOX ABOVE | | |
| LCP | LIGHTING CON CONTAINS RE | ITROL PANEL. INCLUDES SYSTEM CONTROLLER. LAYS. | | |
| LLC | LOCAL LIGHTII | NG CONTROLLER. REFER TO DETAIL 1/E8.0.0 | | |
| NI | NETWORK INT | ERFACE | | |
| M-A- | | SENSOR, CEILING MOUNTED. WIDE ANGLE LENS. MOUNT UBSCRIPT DENOTES SENSOR TYPE. PASSIVE INFRARED TECHNOLOGY. DUAL (PIR + ULTRASONIC) TECHNOLOGY. | | |
| J R | BOX ABOVE A | SENSOR RELAY PACK 20A CONTACTOR MOUNTED ON J- CCESSIBLE CEILING FOR SWITCHING LOCAL RECEPTACLE. WER PLANS FOR RECEPTACLE LOCATIONS. | | |
| лην | | N - DATA | | |
| | | N-DATA | | |
| | | | | |
| Pi | H1 PH2 | | | |
| • | PRE-PHASE 1 | | | |
| : | 1. Provid 2. Install | E J-HOOK SUPPORTS FOR TEMPORARY DATA SERVICE ABOVE CEILING. NEW DATA SERVICE | | |
| | PHASE 1 1. PROVID | E RACK IN NEW ADDITION | | |
| | PRE-PHASE 2 1. INSTALL | DATA TO NEW SERVER | | |
| - | PHASE 2 1. REMOV | E EXISTING DATA | | |
| | | E J-HOOK SUPPORTS FOR TEMPORARY DATA SERVICE ABOVE CEILING. . NEW DATA SERVICE | | |
| - | PHASE 1 1. PROVID | E RACK IN NEW ADDITION | | |
| | PRE-PHASE 2 1. INSTALL | DATA TO NEW SERVER | | |
| • | PHASE 2 | E EXISTING DATA | | |
| <u>PHA</u> | <u>SE PLAI</u> | <u>N - POWER</u> | | |
| P | H1 PH2 | | | |
| | | | | |
| • | PROVI TRANS | DE TEMPORARY UTILITY SERVICE IN FRONT OF THE BUILDING. DE FEEDERS TO EXISTING PANELS AND DISCONNECTS SFER SERVICE OVER DURING BUILDING OFF HOURS. PROVIDE 2 WEEK E TO OWNER. | | |

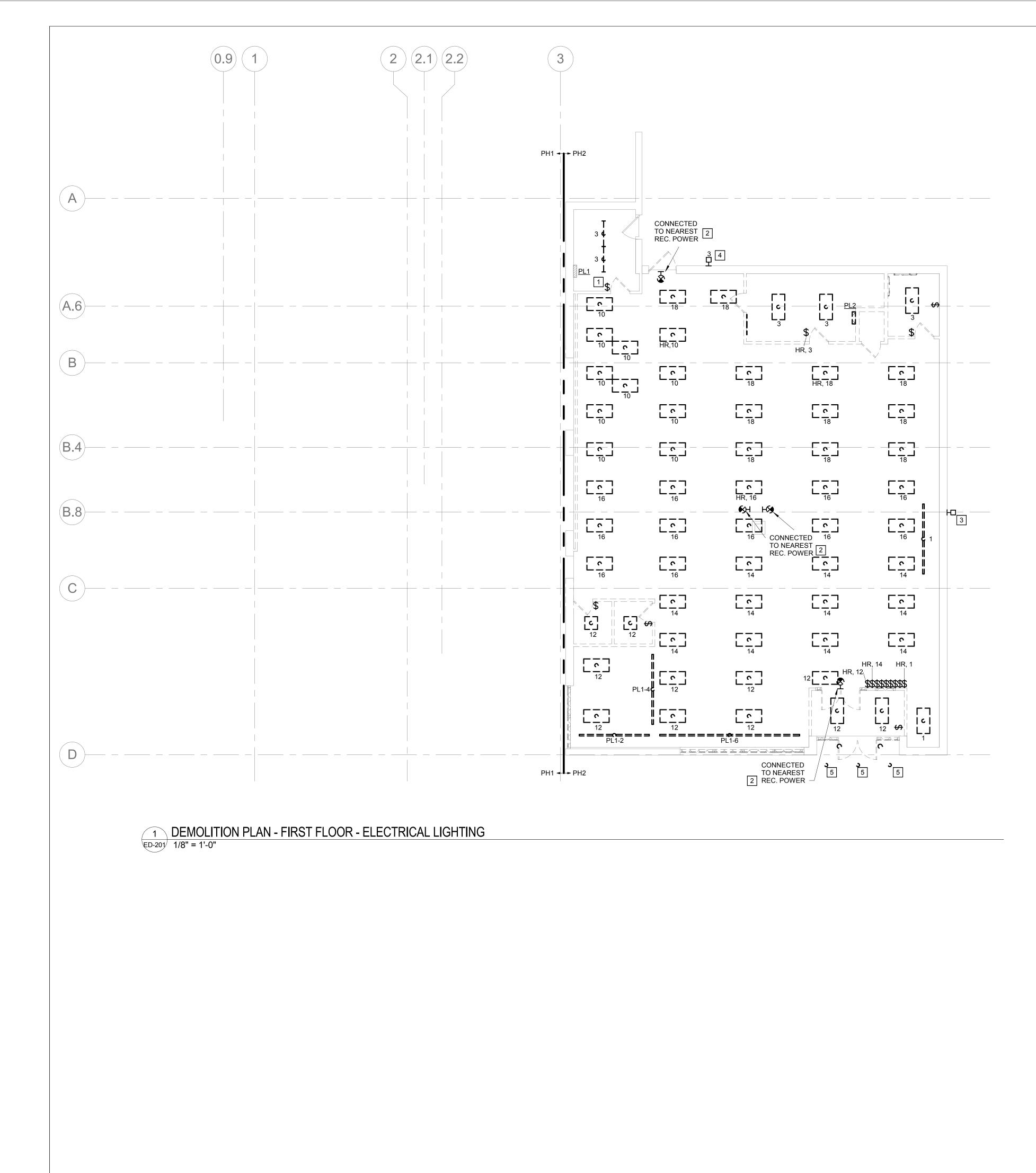
4. DISCONNECT AND REMOVE EXISTING UTILITY SERVICE

PHASE 1

•

- PROVIDE NEW ELECTRICAL SERVICE. PROVIDE NEW FEEDER TO EXISTING PANELS
- PHASE 2 SWITCH EXISTING PANEL PL1 OVER TO NEW SERVICE REMOVE PANEL PL2 TO ALLOW FOR DEMO OF WALLS REMOVE TEMP SERVICE 3.

| read | Sce Re Lib | enic egional rary re, grow |
|--|---|--|
| SCENIC REGIONAL | LIBRARY ST. CLAIR BRANCH | 515 E. SPRINGFIELD ROAD ST. CLAIR, MO 63077 |
| JER planning arct | hitecture interior des | aign ARCHITECTS |
| ARCHITECT JEMA 3005 LOCUST ST. LOUIS, M T (314) 531-74 CONTACT: SC E-MAIL: SCLA | O 63103 400 COTT CLARK | fl.com |
| 3750 SOUTH SPRINGFIELD T (417) 877-96 F (417) 877-96 CONTACT: JA | FREMONT 0, MO 65804 600 696 MES STUFFL | S ARCHITECTS LEBEAM RCHITECTS.COM |
| CIVIL COCHRAN 530A E. INDEF UNION, MO 6 CONTACT: DA T (636) 584-05 F (636) 584-05 E-MAIL: DVAN | 3084 AVE VAN LEE 540 512 | R |
| STRUCTURAL ALPER AUDI, 1804 BORMAI ST. LOUIS, M4 T (314) 432-86 F (314) 807-27 CONTACT: ST E-MAIL: STEV | INC. N CIRCLE DR O 63146 500 774 "EVE EHRETT | |
| BRIC PARTNE 343 S. KIRKW KIRKWOOD, M T (314) 725-58 CONTACT: BF | RSHIP, LLC 'OOD ROAD, MO 63122 389 RUCE COLEM | |
| ENGINEER O | F RECORD: | |
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| DRAWN BY: | TLK | |
| PROJECT NU | | 1161.05 |
| LEGEND, S | SYMBOLS, | NOTES, & LECTRICAL |
| $\parallel E$ | -0 | 01 |



1 REMOVE ALL LIGHT FIXTURES, CONDUIT AND WIRE BACK TO PANEL UNLESS OTHERWISE NOTED.

KEYED NOTES

BE RE-USED.

#

- DISCONNECT AND REMOVE EXIT SIGN, CONDUIT, AND CABLE BACK TO PANEL.
- 4 DISCONNECT AND REMOVE SITE WALL PACK FIXTURE REMOVE CONDUCTORS TO FIXTURE AND PROVIDE
- COVER PLATE.

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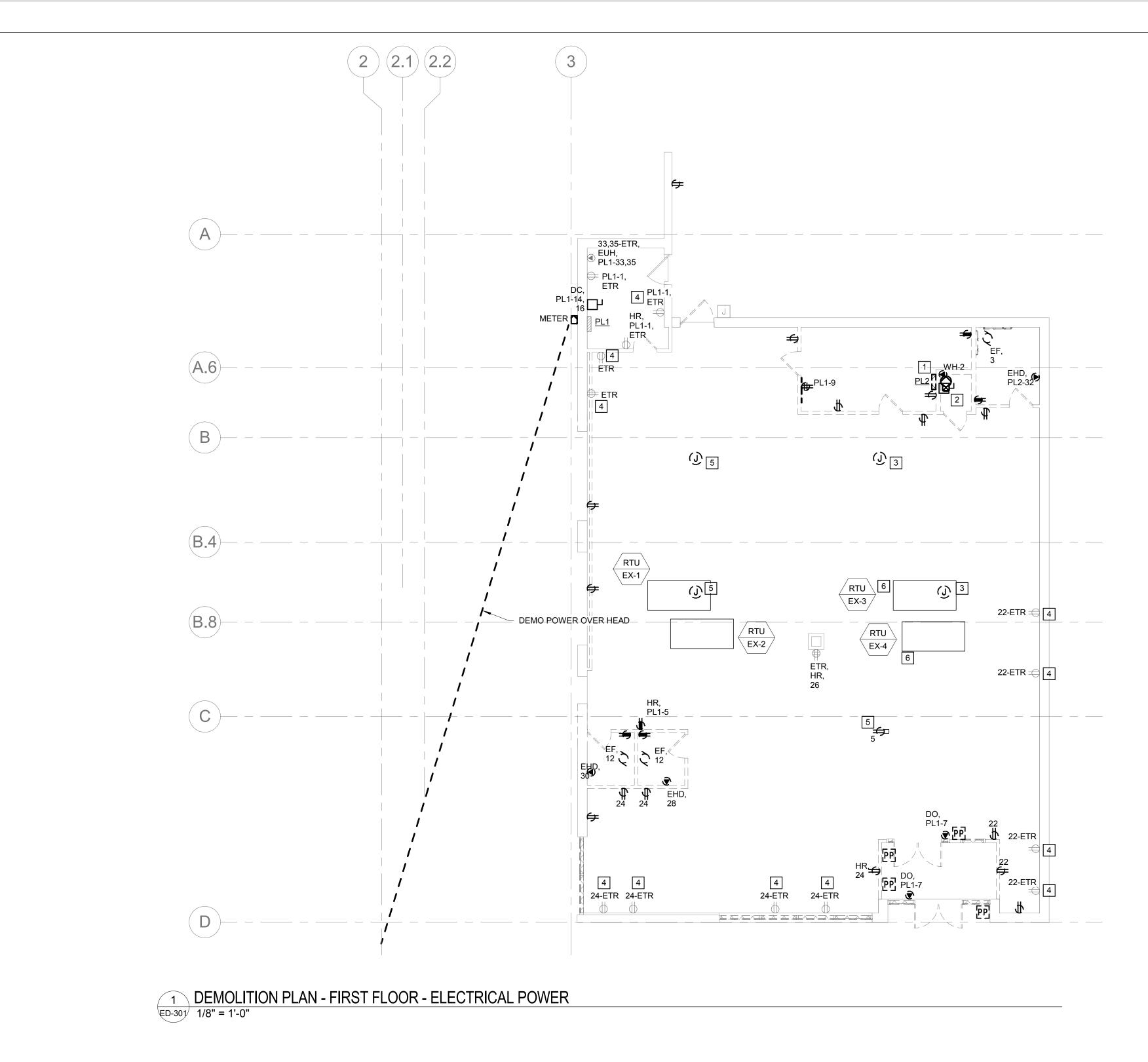
GENERAL NOTES

DISCONNECT AND REMOVE LIGHT SWITCH AND LIGHT FIXTURE IN SPACE. CONDUITS AND CONDUCTORS MAY

3 DISCONNECT AND REMOVE SITE WALL PACK FIXTURE. PROTECT BACK BOX FOR NEW FIXTURE.

5 DISCONNECT AND REMOVE FIXTURE PROTECT CONDUCTORS AND CONDUIT IN CANOPY TO BE RE-USED.





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GENERAL NOTES

1 ALL DEVICES, CONDUIT AND WIRE BACK TO PANEL SHALL BE DEMOED UNLESS OTHERWISE NOTED.

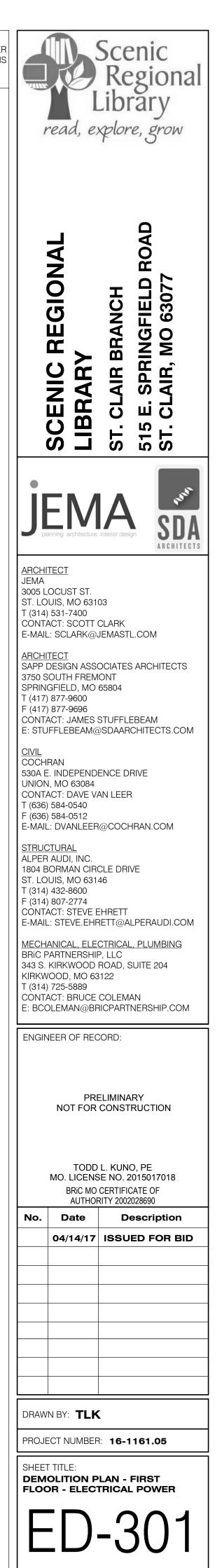
KEYED NOTES

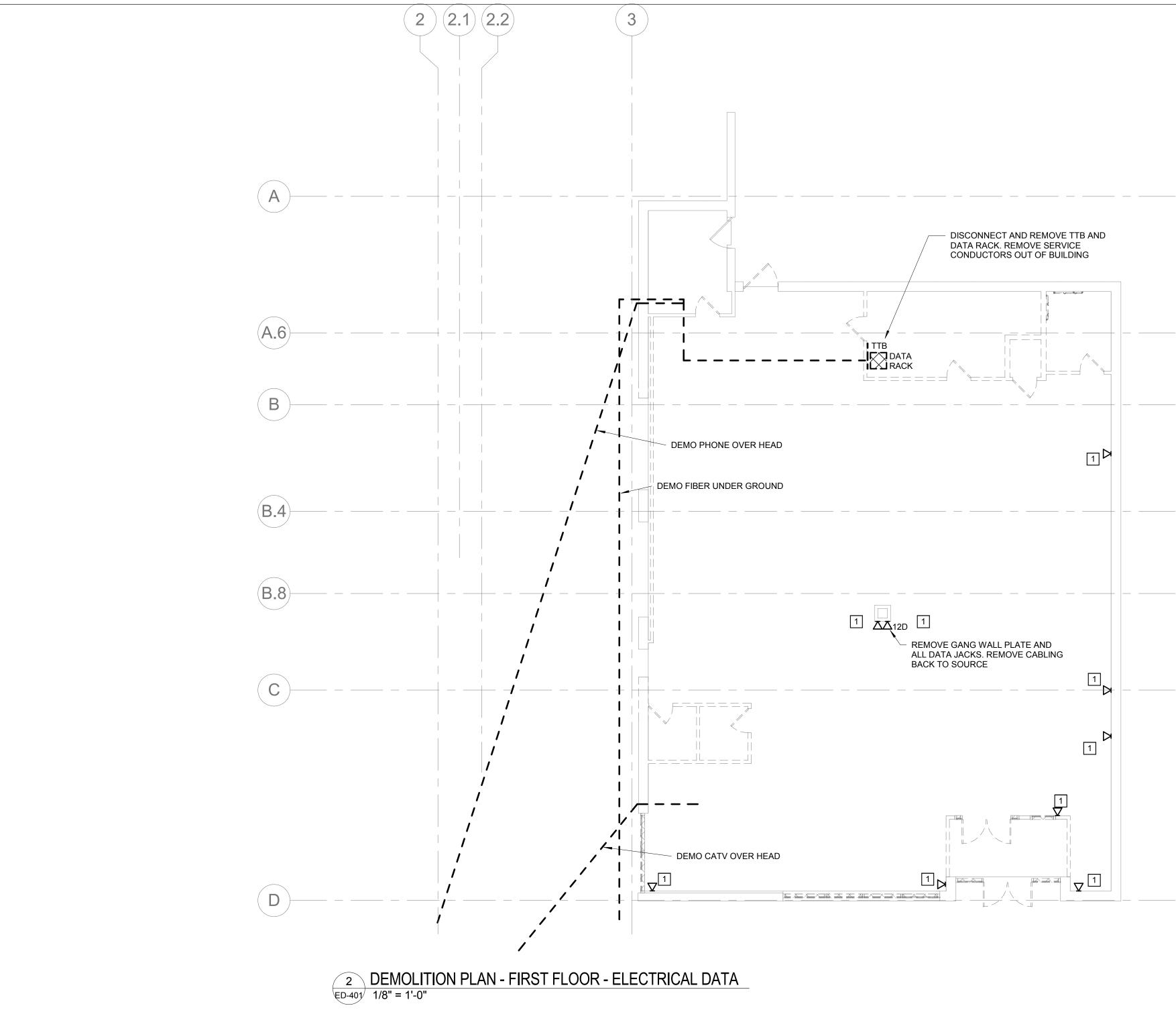
1 DISCONNECT AND REMOVE ELECTRICAL PANEL.

2 DISCONNECT WATER HEATER AND DEMO CONDUIT, CONDUCTORS, AND DISCONNECTS BACK TO PANEL. 3 INTERCEPT EXISTING AHU CIRCUITS AND EXTEND TO NEW PANEL LOCATION. PROVIDE (2) #8, (1) #10 GND, IN 3/4" CONDUIT.

4 REMOVE RECEPTACLE AND FACE PLATE. PROTECT CONDUCTORS FOR NEW DEVICE.

5 REMOVE POWER POLE AND REMOVE CONDUIT AND CONDUCTORS BACK TO ELECTRICAL PANEL. 6 REMOVE CONDUCTORS AND CONDUIT BACK TO PANEL PL2. UNIT TO BE CONNECTED TO NEW PANEL LOCATION.







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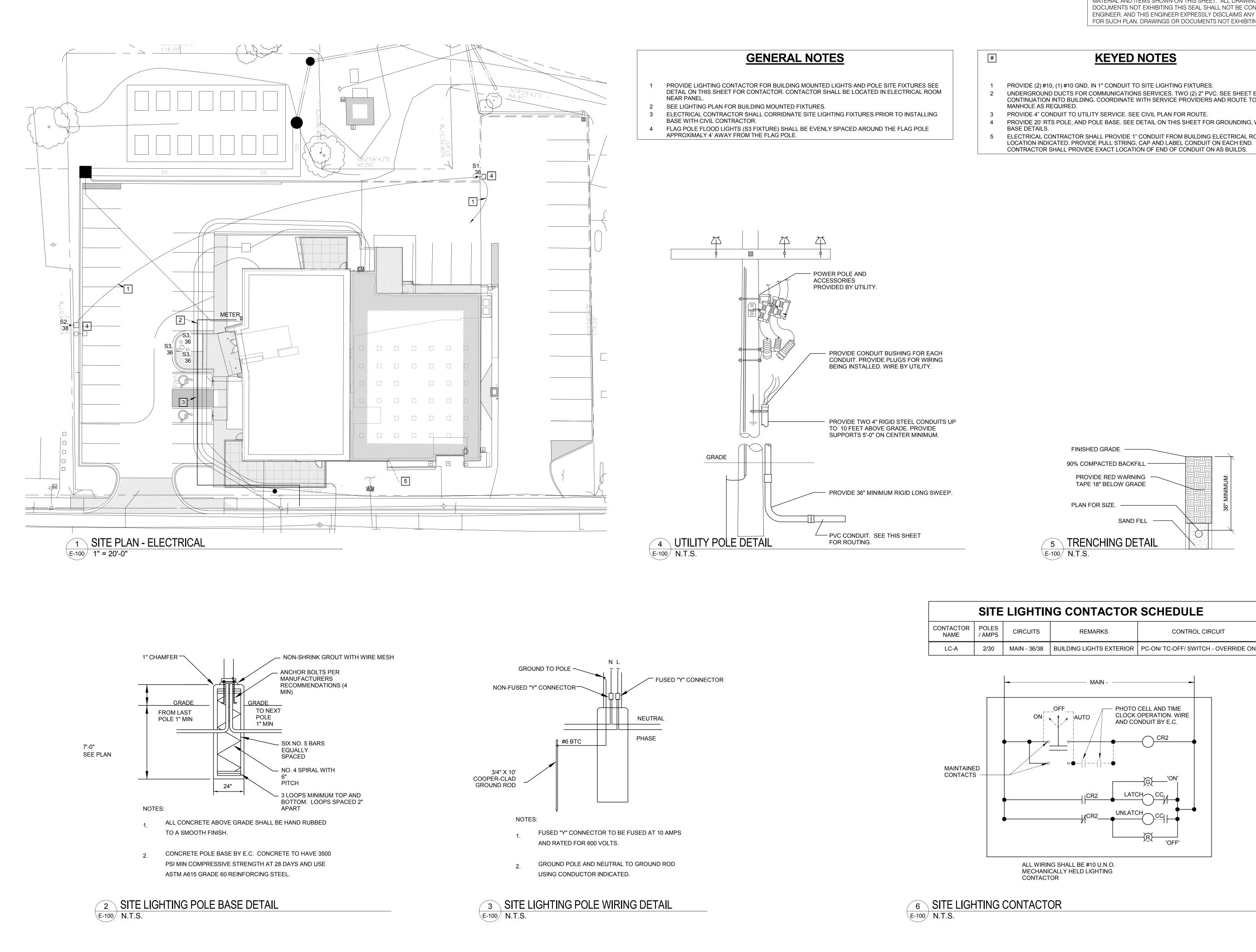
GENERAL NOTES

1 ALL COMMUNICATIONS DEVICES, CONDUIT AND CABLE SHALL BE DEMOED BACK TO DATA RACK UNLESS OTHERWISE NOTED.

KEYED NOTES

1 REMOVE ALL EXISTING CABLE.



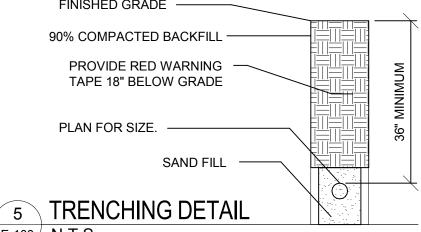


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UNDERGROUND DUCTS FOR COMMUNICATIONS SERVICES. TWO (2) 2" PVC. SEE SHEET E-401 FOR CONTINUATION INTO BUILDING. COORDINATE WITH SERVICE PROVÍDERS AND ROUTE TO POLE OF

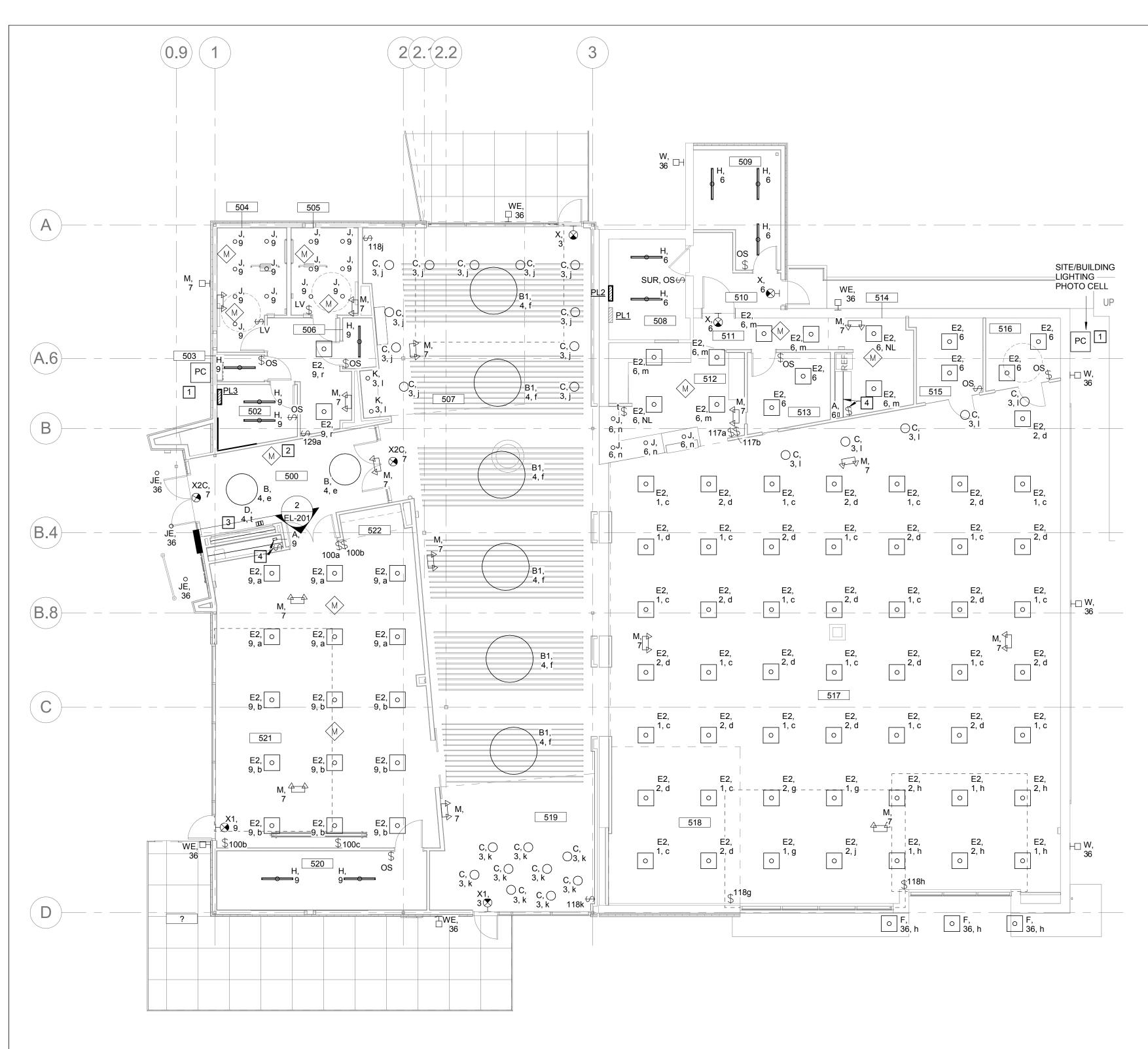
PROVIDE 20' RTS POLE, AND POLE BASE. SEE DETAIL ON THIS SHEET FOR GROUNDING, WIRING, AND ELECTRICAL CONTRACTOR SHALL PROVIDE 1" CONDUIT FROM BUILDING ELECTRICAL ROOM TO THE

CONTRACTOR SHALL PROVIDE EXACT LOCATION OF END OF CONDUIT ON AS BUILDS.



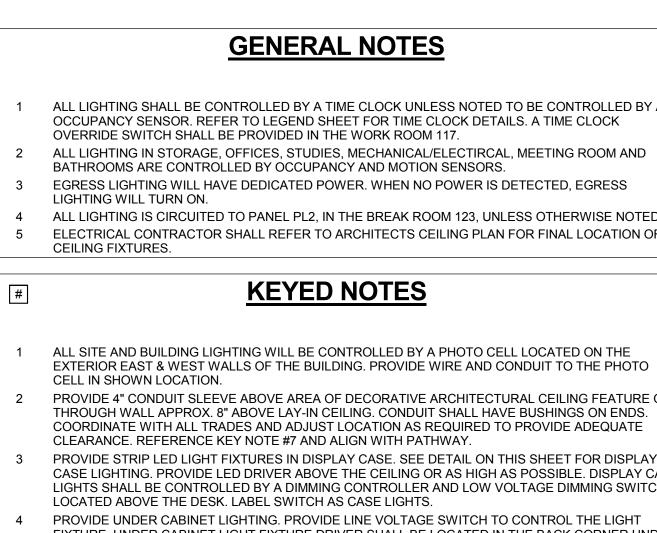
| CIRCUITS | REMARKS | CONTROL CIRCUIT | | |
|--------------|--------------------------|-------------------------------------|--|--|
| MAIN - 36/38 | BUILDING LIGHTS EXTERIOR | PC-ON/ TC-OFF/ SWITCH - OVERRIDE ON | | |



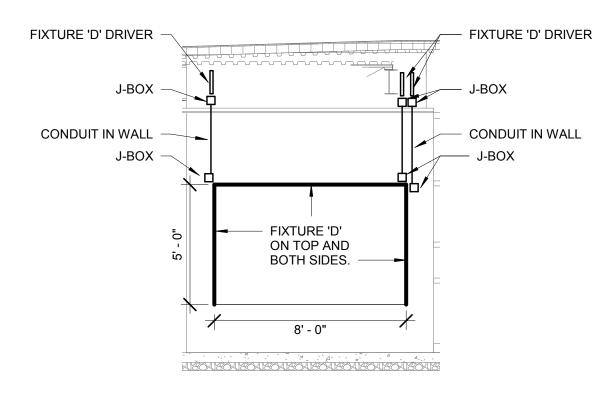


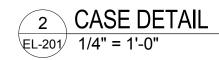


| LIGHT FIXTURE SCHEDULE | | | | | | |
|------------------------|-----------------|------------|---------|---|---------------------------|--|
| MARK | MANUFACTURER 1 | Model | Voltage | LAMPS | MOUNTING | DESCRIPTION |
| ٨ | | | 4001/ | | | |
| A | FREELUX | TUN7 | 120V | 7W PER 20", 75LM/W, 80 CRI, 3500K, UNDER CABINET | | UNDER CABINET FIXTURE. PROVIDE DRIVER AND CABLE AS REQUIRED. |
| 3 | OCL | LO1 | 120V | 48", 145W, 13050 LUMENS, LED, 3500K LIGHT TEMP | PENDENT / CEILING MOUNTED | PENDANT WITH 3 ANDGLED AIRCRAFT CABLES AND WHITE POWER CORD TO CANOPY, MATTE WHITE POLYETHYLENE FINISH, WITH 0-10V DIMMING DRIVER. |
| 31 | OCL | LO1 | | 72", 145W, 13050 LUMENS, LED, 3500K LIGHT TEMP | PENDENT / CEILING MOUNTED | PENDANT WITH 3 ANDGLED AIRCRAFT CABLES AND WHITE POWER CORD TO CANOPY, MATTE WHITE POLYETHYLENE FINISH, WITH 0-10V DIMMING DRIVER. |
|) | IKEA | FILLSTA | | 7", 11E, 600 LUMENS, LED, 3500K LIGHT TEMP | PENDENT / CEILING MOUNTED | 14" DIAMETER |
|) | LED LINEAR | XOOLUM | 120V | 10 W/M, 131 LM/W, 80 CRI, 3500K WALL WASH | SURFACE MOUNT | SILVER - ADJUSTABLE MOUNT CABLE OUT THE BACK, PROVIDE DIMMABLE DRIVER. DRIVER SHALL BE LOCATED ABOVE THE CEILING. |
| 2 | METALUX | 22SP | 120V | 2x2, 34.4W, 3400 LUMENS, LED, 3500K LIGHT TEMP | RECESSED LAY-IN CEILING | UNIVERSAL 120V WITH 0-10V DIMMING DRIVER. |
| | | | | | | |
| | METALUX | SNLED | 120V | 4', 25.07W, 3061 LUMENS, LED, 3500K LIGHT TEMP | CEILING SURFACE MOUNT | COMMERCIAL STRIPLIGHT, LED 4.0, CLEAR LENS, UNIVERSAL 120V WITH 0-10V DIMMING DRIVER. |
| | HALO | PD6 | 120V | 6", 17.1W, 1500 LUMENS, 80 CRI, LED, 3500K LIGHT TEMP | RECESSED CEILING MOUNT | DOWNLIGHT, SEMI-SPECULAR CLEAR, UNIVERSAL 120V WITH 0-10V DIMMING DRIVER. |
| Ē | HALO | PD6 | 120V | 6", 17.1W, 1500 LUMENS, 80 CRI, LED, 3500K LIGHT TEMP | RECESSED CEILING MOUNT | DOWNLIGHT, SEMI-SPECULAR CLEAR, UNIVERSAL 120V WITH 0-10V DIMMING DRIVER. WITH BATTERY BACKUP. |
| | TECH LIGHTING | ELEMENT | 120V | 4" ROUND, FLANGE, BEVEL, 1500 LUMENS 80CRI, 3500K, 40 DEG | RECESSED CEILING MOUNT | DOWNLIGHT, SEMI-SPECULAR CLEAR, UNIVERSAL 120V WITH 0-10V DIMMING DRIVER. |
| | SURE-LITES | SEL50 LED | | BUG EYE, 3W, LED | CEILING SURFACE MOUNT | DEDICATED BUG LIGHTING, WHITE FINISH, UNIVERSAL 120V, WITH BACKUP BATTERY |
| 1 | COOPER LIGHTING | GALLEON | 120V | 9500 LUM, 4000K, 85W T2 | 20' POLE RTS | PROVIDE 20' RTS POLE, SEE DETAIL ON E-100. BLACK FINISH |
| 2 | COOPER LIGHTING | GALLEON | 120V | 9500 LUM, 4000K, 85W T3 | 20' POLE RTS | PROVIDE 20' RTS POLE, SEE DETAIL ON E-100. BLACK FINISH |
| 3 | COOPER LIGHTING | NFFLD-S | 120V | 2700LUM, 5000K, 3H X 3V | GRADE MOUNT | GROUND MOUNT, PROVIDE 12" DIAMETER CONCRETE SUPPORTS. |
| 1 | COOPER LIGHTING | IST | 120V | 5000 LUM, 4000K, 45W, BL3 | WALL MOUNTED | TRAPEZOID, BLACK FINISH, PROVIDE WEATHER SEAL AROUND BACK BOX. |
| /E | COOPER LIGHTING | IST | 120V | 5000 LUM , 4000K, 45W, BL3 | WALL MOUNTED | TRAPEZOID, BLACK FINISH, PROVIDE WEATHER SEAL AROUND BACK BOX. WITH BATTERY BACKUP. |
| | COOPER | LPX SERIES | 120V | 3.8W, LED, RED | WALL MOUNTED | LED EDGE LIT EXIT SIGN. PROVIDE SINGLE FACE, AND CHEVRONS INDICATED ON DRAWINGS, WITH BATTERY BACKUP. |
| (1 | COOPER | LPX SERIES | 120V | 3.8W, LED, RED | WALL MOUNTED | LED EDGE LIT EXIT SIGN. PROVIDE SINGLE FACE, AND CHEVRONS INDICATED ON DRAWINGS, WITH BATTERY BACKUP. |
| (2C | COOPER | ES SERIES | 120V | 3.8W, LED, RED | CEILING MOUNTED | LED EDGE LIT EXIT SIGN. PROVIDE SINGLE FACE, AND CHEVRONS INDICATED ON DRAWINGS, WITH BATTERY BACKUP. |



THE CABINET.





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GENERAL NOTES

- ALL LIGHTING SHALL BE CONTROLLED BY A TIME CLOCK UNLESS NOTED TO BE CONTROLLED BY AN OCCUPANCY SENSOR. REFER TO LEGEND SHEET FOR TIME CLOCK DETAILS. A TIME CLOCK
- EGRESS LIGHTING WILL HAVE DEDICATED POWER. WHEN NO POWER IS DETECTED, EGRESS
- 4 ALL LIGHTING IS CIRCUITED TO PANEL PL2, IN THE BREAK ROOM 123, UNLESS OTHERWISE NOTED. ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTS CEILING PLAN FOR FINAL LOCATION OF

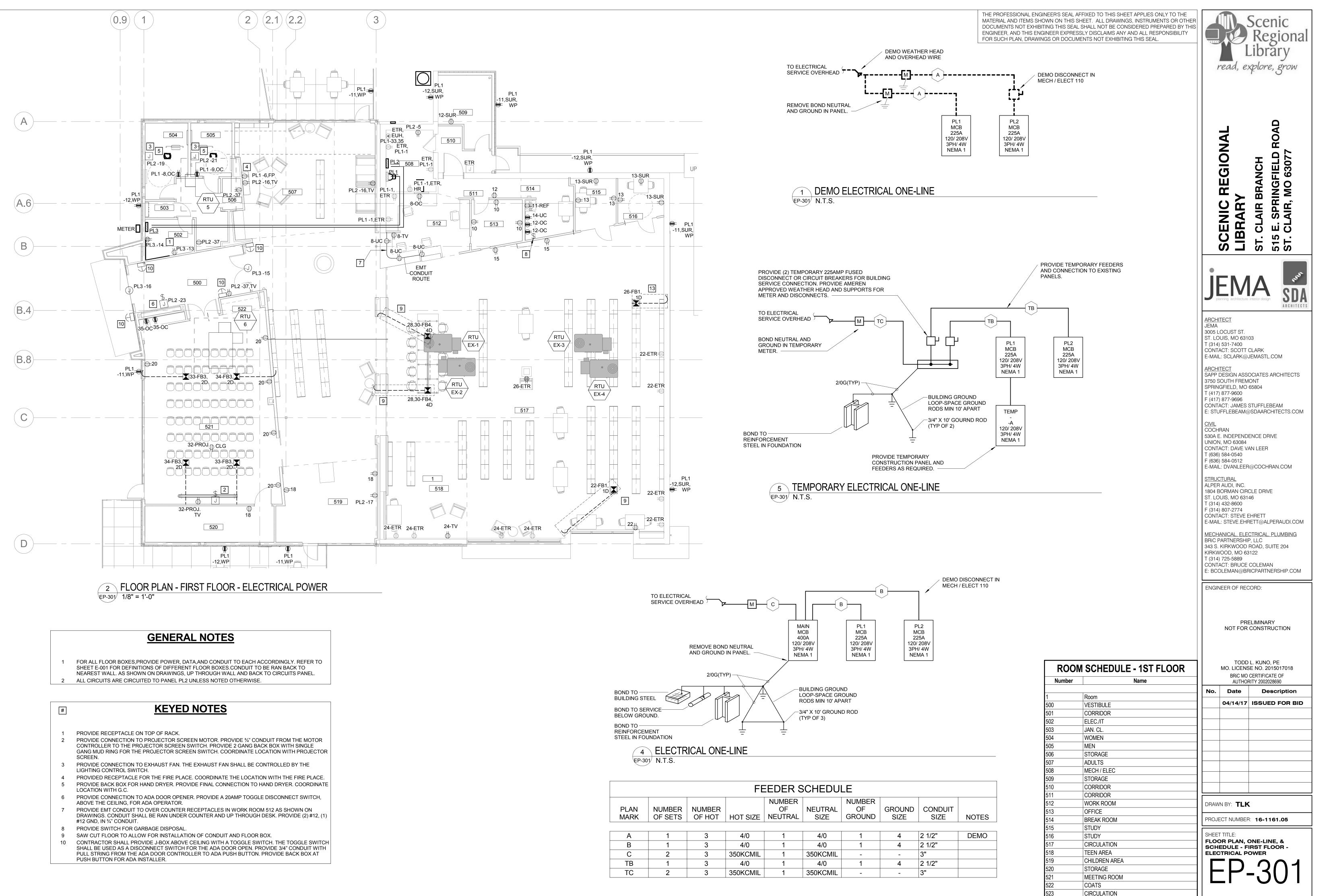
KEYED NOTES

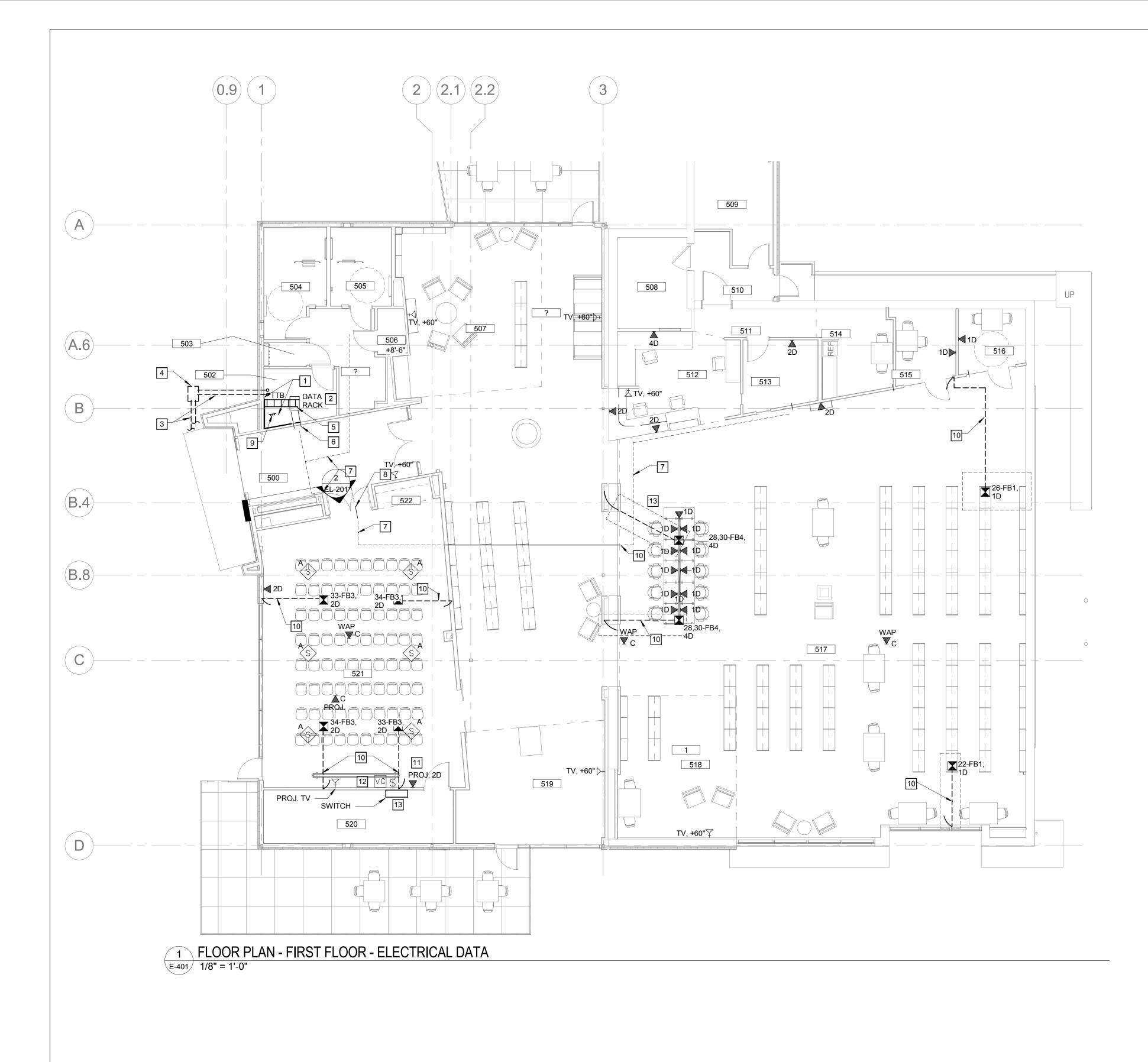
ALL SITE AND BUILDING LIGHTING WILL BE CONTROLLED BY A PHOTO CELL LOCATED ON THE

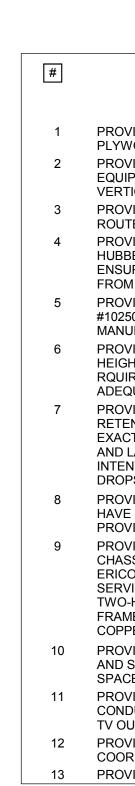
- PROVIDE 4" CONDUIT SLEEVE ABOVE AREA OF DECORATIVE ARCHITECTURAL CEILING FEATURE OR THROUGH WALL APPROX. 8" ABOVE LAY-IN CEILING. CONDUIT SHALL HAVE BUSHINGS ON ENDS. COORDINATE WITH ALL TRADES AND ADJUST LOCATION AS REQUIRED TO PROVIDE ADEQUATE
- PROVIDE STRIP LED LIGHT FIXTURES IN DISPLAY CASE. SEE DETAIL ON THIS SHEET FOR DISPLAY CASE LIGHTING. PROVIDE LED DRIVER ABOVE THE CEILING OR AS HIGH AS POSSIBLE. DISPLAY CASE LIGHTS SHALL BE CONTROLLED BY A DIMMING CONTROLLER AND LOW VOLTAGE DIMMING SWITCH
- PROVIDE UNDER CABINET LIGHTING. PROVIDE LINE VOLTAGE SWITCH TO CONTROL THE LIGHT FIXTURE. UNDER CABINET LIGHT FIXTURE DRIVER SHALL BE LOCATED IN THE BACK CORNER UNDER

ROOM SCHEDULE - 1ST FLOOR Name Number Room VESTIBULE CORRIDOR ELEC./IT JAN. CL. WOMEN MEN STORAGE ADULTS MECH / ELEC STORAGE CORRIDOR CORRIDOR WORK ROOM OFFICE BREAK ROOM STUDY STUDY CIRCULATION TEEN AREA CHILDREN AREA STORAGE **MEETING ROOM** COATS CIRCULATION

| ENIC REGIONAL | ROAI |
|--|---|
| SCENIC | ST. CLAIR BRANCH 515 E. SPRINGFIELD ROAD ST. CLAIR, MO 63077 |
| JEM planning architecture | interior design |
| ARCHITECT JEMA 3005 LOCUST ST. ST. LOUIS, MO 6310 T (314) 531-7400 CONTACT: SCOTT (E-MAIL: SCLARK@, | CLARK |
| ARCHITECT SAPP DESIGN ASSO 3750 SOUTH FREM SPRINGFIELD, MO T (417) 877-9600 F (417) 877-9696 CONTACT: JAMES S | OCIATES ARCHITECTS ONT 65804 |
| CIVIL COCHRAN 530A E. INDEPENDI UNION, MO 63084 CONTACT: DAVE V/ T (636) 584-0540 F (636) 584-0512 E-MAIL: DVANLEER | ENCE DRIVE AN LEER |
| STRUCTURAL ALPER AUDI, INC. 1804 BORMAN CIRC ST. LOUIS, MO 6314 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE E | CLE DRIVE 46 EHRETT |
| MECHANICAL, ELEC BRIC PARTNERSHIF 343 S. KIRKWOOD KIRKWOOD, MO 63 T (314) 725-5889 CONTACT: BRUCE | ROAD, SUITE 204 1122 COLEMAN |
| E: BCOLEMAN@BF | NCPARTNERSHIP.COM |
| | ELIMINARY CONSTRUCTION |
| MO. LICENS BRic MO AUTHOF | L. KUNO, PE SE NO. 2015017018 CERTIFICATE OF RITY 2002028690 |
| No. Date 04/14/17 | Description |
| | |
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| | |
| DRAWN BY: TLK PROJECT NUMBEF | - |







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KEYED NOTES

PROVIDE 3/4" PLYWOOD BACK BOARD FOR MOUNTING COMMUNICATIONS AND DATA EQUIPMENT. PLYWOOD SHALL BE FIRE RETARDANT UL LISTED PRODUCT. COVER WALL FROM 12" AFF TO 108" AFF. PROVIDE FULL HEIGHT 2-POST EQUIPMENT RACK FOR NETWORK AND COMMUNICATIONS EQUIPMENT. RACK SHALL HAVE THREE (3) 1U HORIZONTAL CABLE MANAGERS AND TWO (2)

VERTICAL CABLE MANAGERS. MOUNT RACK WITH FRONT OF RACK FACING EAST. PROVIDE TWO (2) 2" UTILITY DUCTS FOR COMMUNICATIONS AND DATA SERVICES. DUCTS SHALL ROUTE FROM ROOM #104 TO UTILITY POLE AS DIRECTED BY SERVICE PROVIDERS, VERIFY. PROVIDE CAST FIBER CEMENT TYPE HAND HOLE WITH 2-BOLT GASKETED COVER SIMILAR TO HUBBELL #B10162230A WITH COVER #C10162202A. COORDINATE WITH PAVEMENT CONTRACTOR AND ENSURE THAT BOX IS FLUSH WITH FINISHED SURFACE AND AREA ADJACENT TO BOX DRAINS AWAY FROM BOX COVER.

PROVIDE LADDER STYLE CABLE RUNWAY ABOVE RACK SIMILAR TO CHATSWORTH PRODUCTS #10250-712. MOUNT RUNWAY ANCHORED TO TOP OF RACK AND ATTACH TO WALL WITH MANUFACTURERS APPROVED BRACKETS AND HARDWARE.

PROVIDE TWO (2) 4" CONDUIT SLEEVES THROUGH WALL AT APPROX. 8" ABOVE LAY-IN CEILING HEIGHT OF VESTIBULE #103. CONDUITS SHALL HAVE BUSHINGS ON ENDS AND FIRESTOP AS RQUIRED. COORDINATE WITH ALL TRADES AND ADJUST HEIGHT AS NECESSARY TO PROVIDE ADEQUATE CLEARANCE.

PROVIDE J-HOOK PATHWAY AT APPROX. 8" ABOVE LAY-IN CEILING. J-HOOKS SHALL BE 4" WITH RETENSION CLIPS, PROVIDE QUANTITY AS REQUIRED. COORDINATE WITH ALL TRADES AND ADJUST EXACT ROUTING TO PROVIDE ADEQUATE CLEARANCE. ALL CABLING SHALL BE TRAINED, BUNDLED AND LASHED WITH RELEASABLE VELCRO STRAPS, NYLON CABLE TIES ARE NOT ACCEPTABLE. THE INTENT IS THAT THIS PATHWAY IS A MAIN ROUTING FOR THE MAJORITY OF CABLING. INDIVIDUAL DROPS AND BUNDLES OF LESS THAN SIX CABLES SHALL UTILIZE 2" J-HOOKS.

PROVIDE 4" CONDUIT SLEEVE THROUGH WALL APPROX. 8" ABOVE LAY-IN CEILING. CONDUIT SHALL HAVE BUSHINGS ON ENDS. COORDINATE WITH ALL TRADES AND ADJUST LOCATION AS REQUIRED TO PROVIDE ADEQUATE CLEARANCE. REFERENCE KEY NOTE #7 AND ALIGN WITH PATHWAY.

PROVIDE TELECOMMUNICATIONS GROUND BUS FOR BONDING ALL METAL OBJECTS AND EQUIPMENT CHASSIS IN ROOM. BUS SHALL BE 13"x2"x1/4" THICK COPPER WITH PRE-DRILLED HOLES SIMILAR TO ERICO #TGBA14L06PT. PROVIDE #2 AWG CU BONDING CONDUCTOR CONNECTED TO ELECTRICAL SERVICE GROUNDING ELECTRODE. ALL BONDING CONDUCTORS SHALL TERMINATE TO BUS WITH TWO-HOLE COMPRESSION CRIMP LUGS SIZED FOR THE INDIVIDUAL CONDUCTORS. BOND RACK FRAME, CONDUITS, TRAY, EQUIPMENT AND ANY EXPOSED BUILDING STEEL TO BUS WITH #6 AWG COPPER WIRE WITH GREEN INSULATION.

PROVIDE 1-1/4" PVC CONDUIT FROM FLOOR BOX TO WALL AS SHOWN. CONDUIT SHALL RISE UP WALL AND STUB OUT INTO CEILING SPACE. ROUTE COMMUNICATIONS CABLING FROM BOX TO CEILING SPACE AND CONTINUE TO I.T. ROOM #104 SUPPORTED BY J-HOOKS.

 PROVIDE HDMI OUTLET AND DATA IN FACE PLATE AT THE TV LOCATION AND DATA BOX. PROVIDE 1" CONDUIT FROM THE TV OUTLET BOX TO THE DATA (OC) BOX. PROVIDE HDMI CABLE BETWEEN THE TV OUTLET AND DATA OUTLET. PROVIDE TERMINATIONS FOR HDMI CABLE AT BOTH LOCATIONS.
 PROVIDE AV SPEAKER VOLUME CONTROLLER AND AV CONTROLLER. SEE DETAILS ON SHEET E-600. COORDINATE LOCATIONS WITH POWER AND LIGHTING CONTROL DEVICE.
 PROVIDE AV SYSTEM SWITCH ON WALL. SEE DETAIL SHEET E-600.



PROJECT NUMBER: 16-1161.05

SHEET TITLE: FLOOR PLAN - FIRST FLOOR -ELECTRICAL DATA



| ROO | M SCHEDULE - 1ST FLOOR |
|--------|------------------------|
| Number | Name |
| | |
| 1 | Room |
| 500 | VESTIBULE |
| 501 | CORRIDOR |
| 502 | ELEC./IT |
| 503 | JAN. CL. |
| 504 | WOMEN |
| 505 | MEN |
| 506 | STORAGE |
| 507 | ADULTS |
| 508 | MECH / ELEC |
| 509 | STORAGE |
| 510 | CORRIDOR |
| 511 | CORRIDOR |
| 512 | WORK ROOM |
| 513 | OFFICE |
| 514 | BREAK ROOM |
| 515 | STUDY |
| 516 | STUDY |
| 517 | CIRCULATION |
| 518 | TEEN AREA |
| 519 | CHILDREN AREA |
| 520 | STORAGE |
| 521 | MEETING ROOM |
| 522 | COATS |
| 523 | CIRCULATION |

| | | | | | | | | | IVIE | CHAI | NICAL E | | | | RICAI | | A 50 | | JLE | | | | |
|-----------|------------------------|--------------|--------------------|--------------|-------|-----------------|----|-------------|---------|--------------|-----------------------|----------|-------------|----------------|---------|----------------|--------------|----------|-------------|-----------|-------|-------------------------|------------------------------------|
| PLAN MARK | | | | | | | | | ST | ARTER | | | | | DISCONN | ECT | | | CONTRO | DL DEVICE | | | |
| | DISCRIPTION / LOCATION | N HORSEPOWER | APPARENT R LOAD | - VOLTAGE | PHASE | NEMA EN TYPE | | / INSTALLED | BY TYPE | NEMA TYPE | AUXILIARY CONTACTS | LOCATION | FURNISHED B | / INSTALLED BY | TYPE | SWITCH SIZE | FUSE SIZE | LOCATION | FURNISHED B | WIRE BY | PANEL | FEEDER SIZE / RACEWAY | REMARKS |
| 1 | CONDENSING UNIT | | 3931 VA | 0 V | 1 | 3R | EM | EM | - | - | - | - | EC | EC | NF | 30A | - | ON WALL | MC | MC | MAIN | (2)#8,(1)#10G, 3/4" C. | |
| 1 | FAN COIL UNIT | - | 500 VA | 0 V | 1 | 1 | EM | EM | - | - | - | - | EC | EC | TOGGLE | 20 | - | ON WALL | MC | MC | MAIN | (2)#12,(1)#12G, 3/4" C. | |
| J 5 | ROOF TOP UNIT | - | 11484 VA | 208 V | 3 | NEMA 3R | MC | MC | - | - | - | IN UNIT | MC | MC | NF | - | NF | IN UNIT | MC | MC | PL3 | (3)#8,(1)#10G, 1"C. | ON ROOF |
| U 6 | ROOF TOP UNIT | - | 13680 VA | 208 V | 3 | NEMA 3R | MC | MC | - | - | - | IN UNIT | MC | MC | NF | - | NF | IN UNIT | MC | MC | PL3 | (3)#8,(1)#10G, 1"C. | ON ROOF |
| ΓU EX-3 | ROOF TOP UNIT | | 5575 VA | 208 V | | | | | | | | | | | | | | | | | | (2)#8,(1)#10G, 3/4" C. | CONNECT EXISTING UNIT TO NEW PANEL |
| ΓU EX-4 | ROOF TOP UNIT | | 5575 VA | 208 V | | | | | | | | | | | | | | | | | | (2)#8,(1)#10G, 3/4" C. | CONNECT EXISTING UNIT TO NEW PANEL |

NOTE: PROVIDE NEW PANEL SCHEDULES FOR PANELS PL1, PL2

| PANEL:PL1OC DEVICE TYPE: BREAKERLOCATION:MECH / ELEC 110DEVICE FAMILY:BOLT ONFED FROM:PL3 | | | | | | | MAINS: WIRING | IG: 3 PHASE 4 WIRE | | | | CONTINOUS: BUS SC RATING: FAULT CURRENT: | | | |
|---|-------------------------|---------------------------|--------|---|--------|---------|------------------|-------------------------|---------|--------|-----|--|-------------|--------------------|----|
| СКТ | DESCRIPTION NOTES | | OC P A | | A | | В | | C | Р | ос | OC NOTES | DESCRIPTION | СКТ | |
| 1 | REC ELECTRICAL ROOM 110 | | 20 A | 1 | 900 VA | 2787 VA | | | | | 2 | 40 A | | rtu-ex-2 | 2 |
| 3 | rtu-ex-1 | | 40 A | 2 | | | 2788 VA | 2787 VA | | | | | | | 4 |
| 5 | | | | | | | | | 2788 VA | 180 VA | 1 | 20 A | | REC STUDY 107 | 6 |
| 7 | | | | | | 180 VA | | | | | 1 | 20 A | | REC WOMEN 105 | 8 |
| 9 | REC MEN 109 | | 20 A | 1 | | | 180 VA | | | | | | | | 10 |
| 11 | REC BUILDING POWER | | 20 A | 1 | | | | | 900 VA | 900 VA | 1 | 20 A | | REC BUILDING POWER | 12 |
| 13 | Spare | | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | | Spare | 14 |
| 15 | Spare | | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | | Spare | 16 |
| 17 | Spare | | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | | Spare | 18 |
| 19 | Spare | | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | | Spare | 20 |
| 21 | Spare | | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | | Spare | 22 |
| 23 | Spare | | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | | Spare | 24 |
| 25 | Spare | | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | | Spare | 26 |
| 27 | Spare | | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | | Spare | 28 |
| 29 | Spare | | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | | Spare | 30 |
| 31 | Spare | | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | | Spare | 32 |
| 33 | euh-ex | | 60 A | 2 | | | 0 VA | 0 VA | | | 1 | 20 A | | Spare | 34 |
| 35 | | | | | | | | | 0 VA | 0 VA | 1 | 20 A | | Spare | 36 |
| 37 | Spare | | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | | Spare | 38 |
| 39 | Spare | | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | | Spare | 40 |
| 41 | Spare | | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | | Spare | 42 |
| | | | | | 386 | 7 VA | 575 | 5 VA | 476 | 8 VA | | | | | |
| | | | | | 32 | 2 A | 49 | 9 A | 41 | A | | | | | |
| | ΤΟΤΑΙ | CONNECTED LOAD: 14389 VA | | | | | | | | | тот | AL CONNE | CTED AMPS: | 40 A | |
| | | TAL DEMAND LOAD: 14389 VA | | | | | | TOTAL DEMAND AMPS: 40 A | | | | | | | |

TOTAL DEMAND LOAD: 14389 VA

| ANEL: | PL2 OC DEVICE TY | YPE: BREAKER | ENCLO | DSUR | E: NEMA | 1 | MAINS: | MLO | | | CONTI | NOUS: | 225 A | | |
|--|----------------------------------|---------------|---|------|---------|--------|------------------------|---------|---------|--------|---|-------------|------------|---------------------------------|-----|
| LOCATION: MECH / ELEC 110 DEVICE FAMILY: BOL ⁻ FED FROM: PL3 | | | MOUNTING: SURFACE VOLTAGE: 120/208 Wye | | | | WIRING: 3 PHASE 4 WIRE | | | | BUS SC RATING: NEXT ABO FAULT CURRENT: 11680 AIC | | | E CALC | |
| СКТ | DESCRIPTION | NOTES | ос | Р | | A | В | 3 | (| C | Р | OC | NOTES | DESCRIPTION | СКТ |
| 1 | LTS CIRCULATION 118 | | 20 A | 1 | 832 VA | 768 VA | | | | | 1 | 20 A | | LTS CIRCULATION 118 | 2 |
| 3 | LTS CIRCULATION 118 NORTH WALL | | 20 A | 1 | | | 1620 VA | 1194 VA | | | 1 | 20 A | | LTS PENDANT 118/ VESTIBULE | 4 |
| 5 | REC MECH / ELEC 110 | | 20 A | 1 | | | | | 180 VA | 676 VA | 1 | 20 A | | LTS ADMIN ROOMS | 6 |
| 7 | EMERGENCY EGRESS LIGHTING | | 20 A | 1 | 55 VA | 900 VA | | | | | 1 | 20 A | | REC WORK ROOM 117 | 8 |
| 9 | LTS MEETING ROOM 100 | | 20 A | 1 | | | 951 VA | 540 VA | | | 1 | 20 A | | REC ROOM 113 | 10 |
| 11 | REC BREAK ROOM 123 REFRIGERATOR | | 20 A | 1 | | | | | 180 VA | 720 VA | 1 | 20 A | | REC BREAK ROOM 123 | 12 |
| 13 | REC STUDY 125 & 126 | | 20 A | 1 | 1080 VA | 180 VA | | | | | 1 | 20 A | | REC BREAK MICROWAVE | 14 |
| 15 | REC CIRCULATION 118 FLOOR BOXES | | 20 A | 1 | | | 360 VA | 360 VA | | | 1 | 20 A | | REC STUDY 108 FLOOR BOXES | 16 |
| 17 | REC | | 20 A | 1 | | | | | 180 VA | 540 VA | 1 | 20 A | | REC STORAGE 119/ STUDY 108 | 18 |
| 19 | GEN WOMEN 105 | | 20 A | 1 | 0 VA | 900 VA | | | | | 1 | 20 A | | REC MEETING ROOM 100 | 20 |
| 21 | GEN | | 20 A | 1 | | | 0 VA | 1080 VA | | | 1 | 20 A | | REC CIRCULATION 118 FLOOR BOXES | 22 |
| 23 | GEN | | 20 A | 1 | | | | | 0 VA | 900 VA | 1 | 20 A | | REC CIRCULATION 118 | 24 |
| 25 | rtu-ex-3 | | 40 A | 2 | 2788 VA | 540 VA | | | | | 1 | 20 A | | REC CIRCULATION 118 FLOOR BOXES | 26 |
| 27 | | | | | | | 2788 VA | 360 VA | | | 2 | 20 A | | REC CORRIDOR 116 FLOOR BOXES | 28 |
| 29 | rtu-ex-4 | | 40 A | 2 | | | | | 2788 VA | 360 VA | | | | | 30 |
| 31 | | | | | 2788 VA | 360 VA | | | | | 1 | 20 A | | REC MEETING ROOM 100 | 32 |
| 33 | REC MEETING ROOM 100 FLOOR BOXES | | 20 A | 1 | | | 720 VA | 720 VA | | | 1 | 20 A | | REC MEETING ROOM 100 | 34 |
| 35 | REC MEETING ROOM 100 FLOOR BOXES | | 20 A | 1 | | | | | 360 VA | 228 VA | 1 | 20 A | | LTS BUILDING | 36 |
| 37 | REC VESTIBULE 103 | | 20 A | 1 | 540 VA | 0 VA | | | | | 1 | 20 A | | LTS SITE | 38 |
| 39 | Spare | | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | | Spare | 40 |
| 41 | Spare | | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | | Spare | 42 |
| | | | | | 1173 | 30 VA | 10693 | 3 VA | 7112 | 2 VA | | | | | |
| | | | | | 10 | 2 A | 94 | A | 59 | A | | | | | |
| | | | | | | | | | | | | | | ~ ~ | |
| TOTAL CONNECTED LOAD: 29535 VA | | | | | | | | | | | | ECTED AMPS: | | | |
| | TOTAL DEMAND LC | DAD: 28505 VA | | | | | | | | | | TOTAL DE | MAND AMPS: | 79 A | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

TOTAL DEMAND AMPS: 40 A

NOTE: PROVIDE NEW PANEL PL3

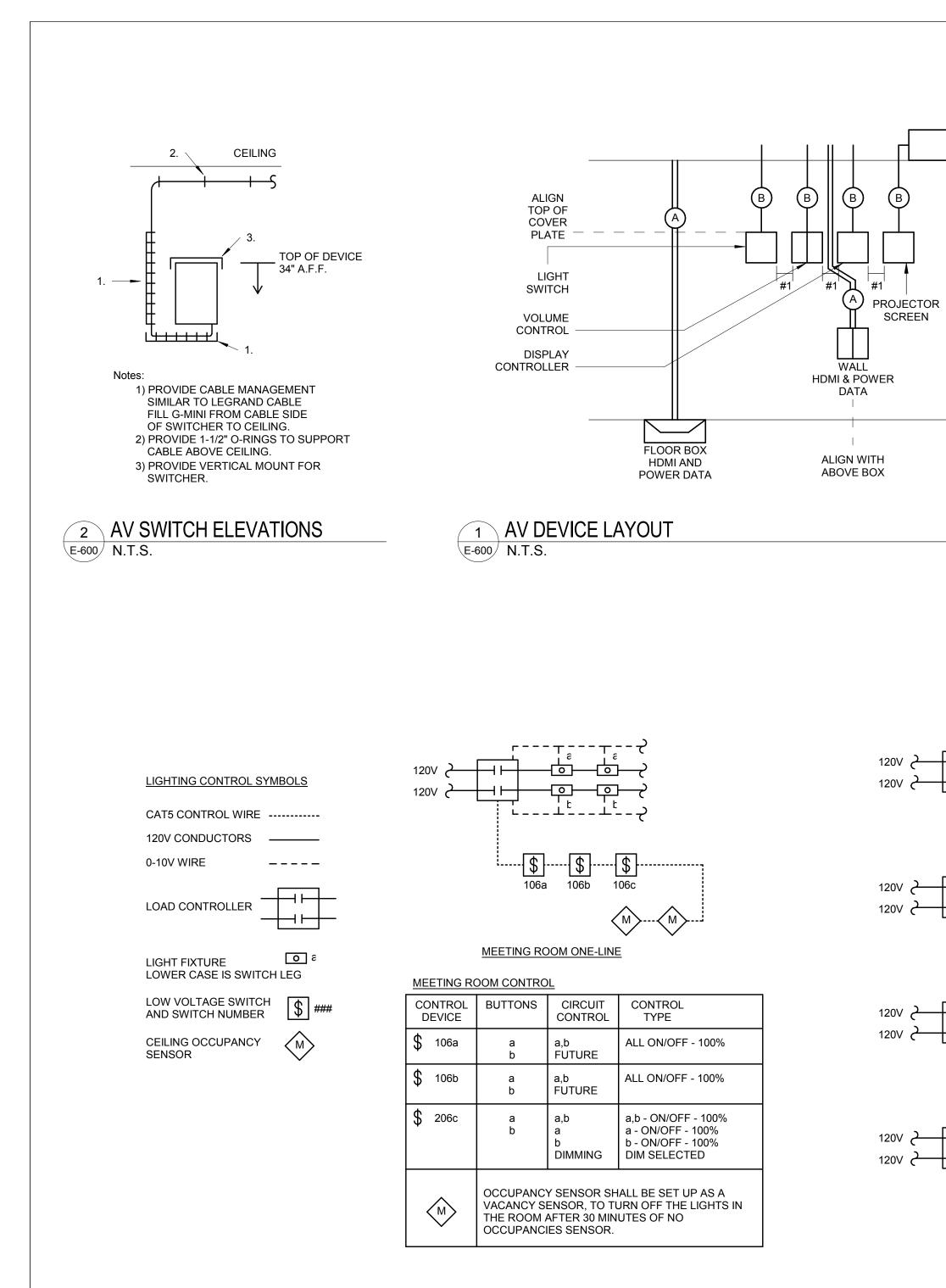
| PANEL: PL3 OC DEVICE TYPE: BREAKER LOCATION: ELEC./IT 104 DEVICE FAMILY: BOLT ON FED FROM: | | | ENCLO MOUN VOLTA | ITING: | E: NEMA 1 SURFA 120/208 | CE | | MAINS: 400 AMP WIRING: 3 PHASE 4 WIRE | | | | | 400 A : NEXT ABOVE T: 25672 AIC | CALC | |
|--|------------------|--------------------------|------------------------|--------|-------------------------------|----------|---------|--|---------|---------|-----|------|---------------------------------------|-------------|-----|
| СКТ | DESCRIPTION | NOTES | ос | Р | | ٩ | E | 3 | (| C | Р | ос | NOTES | DESCRIPTION | СКТ |
| 1 | PL1 | | 225 A | 3 | 3867 VA | 11730 VA | | | | | 3 | 20 A | | PL2 | 2 |
| 3 | | | | | | | 5755 VA | 10693 VA | | | | | | | 4 |
| 5 | | | | | | | | | 4768 VA | 7112 VA | | | | | 6 |
| 7 | RTU-5 | | 40 A | 3 | 3828 VA | 4560 VA | | | | | 3 | 45 A | | RTU-6 | 8 |
| 9 | | | | | | | 3828 VA | 4560 VA | | | | | | | 10 |
| 11 | | | | | | | | | 3828 VA | 4560 VA | | | | | 12 |
| 13 | REC ELEC./IT 104 | | 20 A | 1 | 180 VA | 360 VA | | | | | 1 | 20 A | | REC | 14 |
| 15 | ADA DOOR | | 20 A | 1 | | | 1200 VA | 1200 VA | | | 1 | 20 A | | ADA DOOR | 16 |
| 17 | Spare | | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | | Spare | 18 |
| 19 | Spare | | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | | Spare | 20 |
| 21 | Spare | | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | | Spare | 22 |
| 23 | Spare | | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | | Spare | 24 |
| 25 | Spare | | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | | Spare | 26 |
| 27 | Spare | | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | | Spare | 28 |
| 29 | Spare | | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | | Spare | 30 |
| 31 | Spare | | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | | Spare | 32 |
| 33 | Spare | | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | | Spare | 34 |
| 35 | Spare | | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | | Spare | 36 |
| 37 | Spare | | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | | Spare | 38 |
| 39 | Spare | | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | | Spare | 40 |
| 41 | Spare | | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | | Spare | 42 |
| | | | | | 2452 | 25 VA | 2723 | 6 VA | 2026 | 57 VA | | | | | |
| | | | | | 21 | 0 A | 23 | 2 A | 16 | 9 A | 1 | | | | |
| | | | | | 1 | | 1 | | | | 1 | | | | |
| | ΤΟΤΑΙ (| CONNECTED LOAD: 72028 VA | | | | | | | | | тот | | ECTED AMPS: 2 | 00 A | |
| | | AL DEMAND LOAD: 69108 VA | | | | | | | | | | | MAND AMPS: 1 | | |
| | 161 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

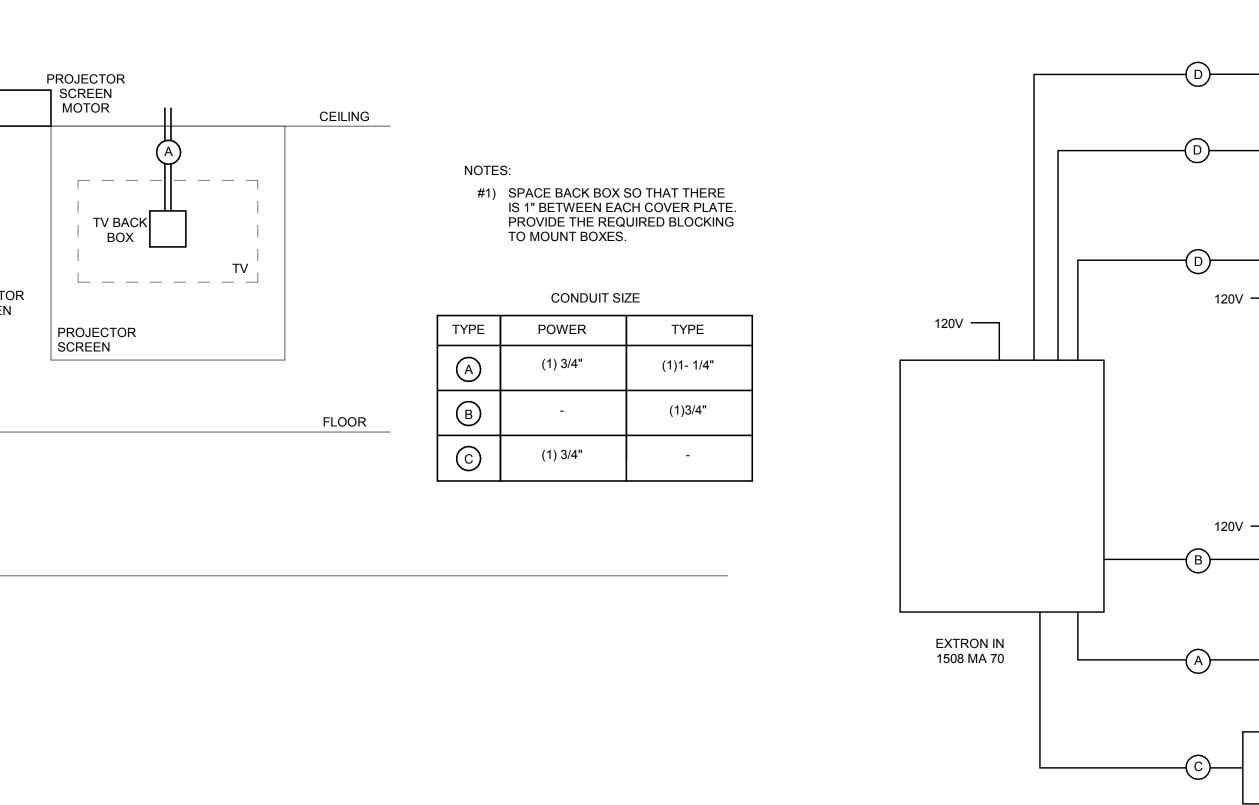
| THE PROFESSIONAL ENGINEER'S SEAL AFFIXED TO THIS SHEET APPLIES ONLY TO THE |
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| FOR SUCH PLAN, DRAWINGS OR DOCUMENTS NOT EXHIBITING THIS SEAL. |
| |

<u>LEGEND</u>

EC - ELECTRICAL CONTRACTOR EM - EQUIPMENT MANUFACTURER FVNR - FULL VOLTAGE NON REVERSING MC - MECHANICAL CONTRACTOR NF - NON FUSED NI - NON INTERRUPTING NO/NC - NORMALLY OPEN/NORMALLY CLOSED TS - TOGGLE SWITCH

| Scenic Regional Library read, explore, grow |
|--|
| SCENIC REGIONAL LIBRARY ST. CLAIR BRANCH 515 E. SPRINGFIELD ROAD ST. CLAIR, MO 63077 |
| JERMA planning architecture interior design |
| ARCHITECT JEMA 3005 LOCUST ST. ST. LOUIS, MO 63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAIL: SCLARK@JEMASTL.COM |
| ARCHITECT SAPP DESIGN ASSOCIATES ARCHITECTS 3750 SOUTH FREMONT SPRINGFIELD, MO 65804 T (417) 877-9600 F (417) 877-9696 CONTACT: JAMES STUFFLEBEAM |
| E: STUFFLEBEAM@SDAARCHITECTS.COM <u>CIVIL</u> COCHRAN 530A E. INDEPENDENCE DRIVE UNION, MO 63084 CONTACT: DAVE VAN LEER T (636) 584-0540 F (636) 584-0512 |
| E-MAIL: DVANLEER@COCHRAN.COM <u>STRUCTURAL</u> ALPER AUDI, INC. 1804 BORMAN CIRCLE DRIVE ST. LOUIS, MO 63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE EHRETT |
| E-MAIL: STEVE.EHRETT@ALPERAUDI.COM <u>MECHANICAL, ELECTRICAL, PLUMBING</u> BRIC PARTNERSHIP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO 63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BCOLEMAN@BRICPARTNERSHIP.COM |
| ENGINEER OF RECORD: |
| PRELIMINARY NOT FOR CONSTRUCTION |
| TODD L. KUNO, PE MO. LICENSE NO. 2015017018 BRIC MO CERTIFICATE OF AUTHORITY 2002028690 |
| No. Date Description 04/14/17 ISSUED FOR BID |
| |
| |
| DRAWN BY: TLK |
| PROJECT NUMBER: 16-1161.05 |
| SHEET TITLE: SCHEDULES - ELECTRICAL |
| E-500 |



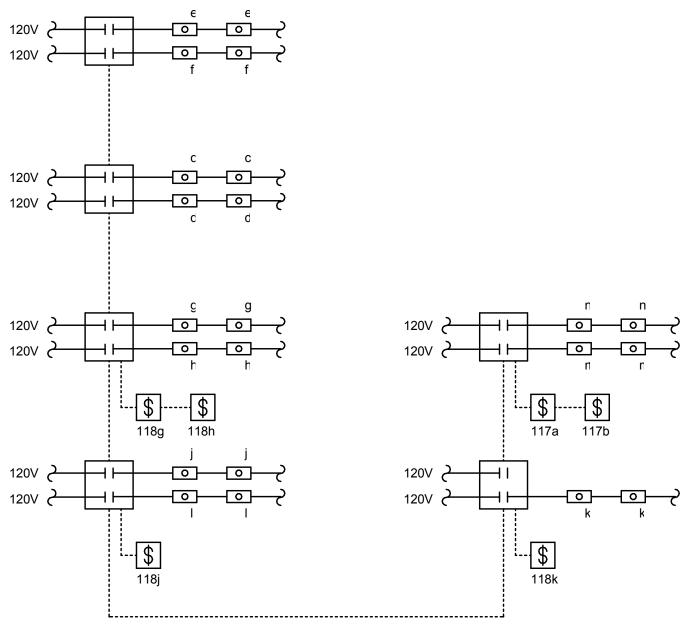


- VOLUME CONTROLLER- LOWELL 2SLVC

VC

A / V WIRE DIAGRAM

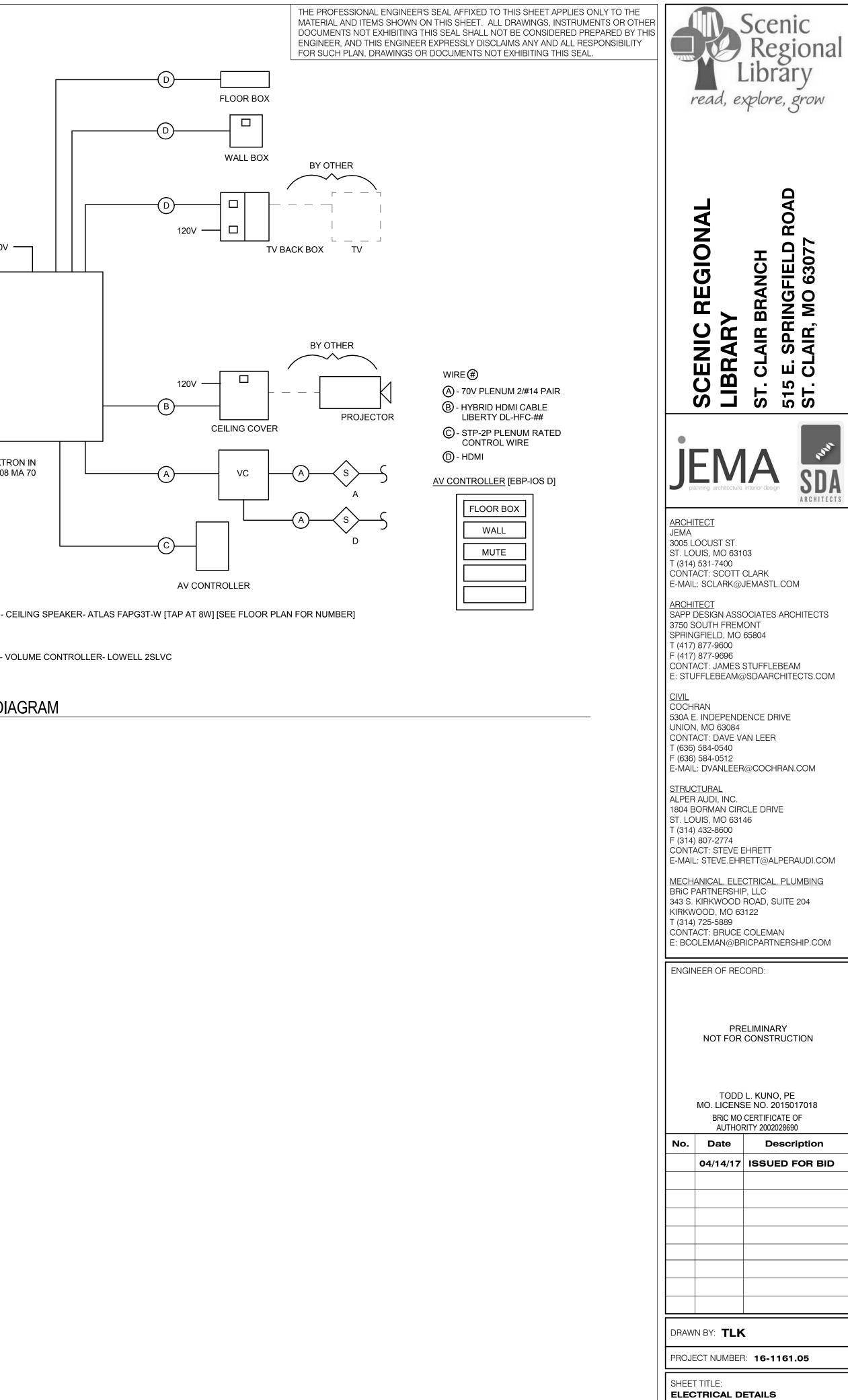
E-600 N.T.S.



VESTIBULE, WORK ROOM, CIRCULATION ONE-LINE

| <u>VE</u> | STIBULE | ROOM CONTR | ROL | |
|-----------|----------------|------------------|--|--|
| | NTROL EVICE | BUTTONS | CIRCUIT CONTROL | CONTROL TYPE |
| \$ | 118g | а | g | g - ON/OFF - 100% |
| \$ | 118h | а | h | h - ON/OFF - 100% |
| \$ | 118k | а | k | k - ON/OFF - 100% |
| \$ | 118j | а | j | j - ON/OFF - 100% |
| \$ | 117a | a b c | m,n m n | ALL - ON/OFF - 100% m - ON/OFF - 100% n - ON/OFF - 100% |
| \$ | 118a | a b c d | c,d,e,f,g,h,i,j,k,l,m,n e f d | ALL - ON/OFF - 100% e - ON/OFF - 100% f - ON/OFF - 100% d - ON/OFF - 100% |
| \$ | t | a b | t DIMMER | t - ON/OFF - 100%\ DIM t SWITH LEG |
| | ALL LIG | HTS SHALL BE | CONTROLLED WITH A | TIME CLOCK. |

COORDINATE HOURS WITH OWNER.



E-0