

Scenic Regional Library Sullivan Branch 525 Cumberland Way Sulivan, MD63080



WEST ELEVATION

DRAWING INDEX

CIVIL TITLE SHEET TOPOGRAPHIC SURVEY DEMOLITION PLAN C2 SITE PLAN

GRADING PLAN UTILITY PLAN DETAIL SHEET

DETAIL SHEET DETAIL SHEET

L1.0 LANDSCAPE SITE PLAN A-001 SYMBOLS AND ABBREVIATIONS

A-002 LIFE SAFETY PLAN A-101 ARCHITECTURAL SITE PLAN

A-102 ENLARGED ROOF PLANS AND ROOF DETAILS

A-103 SITE DETAILS

A-201 FLOOR PLAN - FIRST FLOOR A-301 ENLARGED FLOOR PLANS

A-302 ENLARGED PLANS

A-401 REFLECTED CEILING PLAN

A-402 ENLARGED CEILING PLANS

A-501 FINISH PLAN - FIRST FLOOR

A-601 ELEVATIONS - EXTERIOR A-602 ELEVATIONS - INTERIOR

A-603 ELEVATIONS - INTERIOR A-604 ELEVATIONS - INTERIOR

A-605 ELEVATIONS - INTERIOR

A-701 SECTIONS - BUILDING

A-702 SECTIONS - BUILDING

A-703 SECTIONS - BUILDING

A-704 SECTIONS - BUILDING

A-801 DETAILS - PLAN

A-802 DETAILS - PLAN A-803 DETAILS - BUILDING

A-804 DETAILS - BUILDING

A-805 DETAILS - BUILDING

DRAWING INDEX

A-807 DETAILS

A-808 DETAILS A-809 DETAILS - MILLWORK

A-810 DETAILS - MILLWORK

A-901 DOOR SCHEDULE / DOOR, FRAME AND WINDOW TYPES

A-902 FRAME DETAILS

A-903 PARTITION TYPES F-101 FURNITURE PLAN - FIRST FLOOR

S-100 GENERAL NOTES

S-101 GENERAL NOTES

S-102 TYPICAL DETAILS

S-103 TYPICAL DETAILS

S-104 TYPICAL DETAILS

S-201 FOUNDATION PLAN

S-202 ROOF FRAMING PLAN

S-300 FOUNDATION SECTIONS S-400 FRAMING SECTIONS

S-500 BRACE FRAME ELEVATIONS

S-600 COLUMN SCHEDULE & DETAILS

M-001 LEGEND, SYMBOLS, NOTES, ABBREVIATIONS - MECH.

M-201 FLOOR PLAN & SCHEDULES - MECHANICAL M-801 DETAILS- MECHANICAL

M-901 SCHEDULES - MECHANICAL

P-001 LEGEND, SYMBOLS, NOTES, ABBREVIATIONS - PLUMB.

P-201 FLOOR PLAN - PLUMBING

P-801 DETAILS - PLUMBING

E-001 LEGEND, SYMBOLS, NOTES, ABBREVIATIONS -ELECT.

P-200 FLOOR PLAN - FOUNDATION PLUMBING

E-100 SITE PLAN - ELECTRICAL

EL-201 FLOOR PLAN & LIGHT FIXTURE SCHEDULE - ELECT. LIGHTING

EP-301 FLOOR PLAN, ONE-LINE, & SCHEDULE - ELECT. POWER E-401 FLOOR PLAN - ELECT. DATA

E-801 DETAILS - ELECTRICAL E-901 SCHEDULES - ELECTRICAL NON-SPRINKLERED, NOT PROTECTED

CODE INFORMATION

BUILDING CODE:

ACCESSIBILITY:

FIRE PREVENTION:

MECHANICAL:

ELECTRICAL:

<u>PLUMBING</u>:

EVERGY:

<u>USE GROUPS</u>

GAS:

<u>AUTHORITIES HAWING JURISDICTION:</u> CITY OF SULLIVAN, MO (FRANKLIN AND CRAWFORD COUNTY)

SULLIVAN FIRE PROTECTION DISTRICT

AMERICANS WITH DISABILITIES ACT

INTERNATIONAL BUILDING CODE (IBC) 2009 EDITION

ICC/ANSI A117.1, REFERENCED BY BUILDING CODE

INTERNATIONAL MECHANICAL CODE (IMC) 2009 EDITION

INTERNATIONAL PLUMBING CODE (IPC) 2009 EDITION

INTERNATIONAL FUEL GAS CODE 2009 EDITION

SAFETY PLAN, SHEET A-002)

INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2009 EDITION.

RATINGS

COLUMN

DOOR

FLOOR

STORAGE

CORRIDOR

RATING: 0 HOUR

OMNUTE

OMNUTE

0 HOUR

0 HOUR

INTERNATIONAL FIRE CODE (IFC) 2009 EDITION,

NATIONAL ELECTRICAL CODE 2008 EDITION

SEISMC CATEGORY: REFER TO CISCA GUIDELINES FOR REQUIREMENTS

BULLDING INFORMATION

MODERATE HAZARD STORAGE (ACCESSORY USE, SEE LIFE

ASSEMBLY, LIBRARY

FLOOR ACTUAL GSF DESIGN OCCUPANCY: FIRST FLOOR 247 OCCUPANTS

ALLOWABLE HEIGHT AND AREA:

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

PER SECTION 506.2 FRONTAGE INCREASE; If = 25% INCREASE OR 2,375 SF - TOTAL ALLOWABLE AREA OF 11,875 SF (F=097'-0", P=394'-0", W=30'-0")

MANTY MAP





LOCATOR MAP





ARCHITECT-OF-RECORD

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

DESIGNARCHITECT

SAPP DESIGNASSOCIATES ARCHITECTS 3750 SOUTH FREMONT SPRINGFIELD, MO 65804 T (417) 877-9600 F (417) 877-9696 CONTACT: JAMES STUFFLEBEAV E: STUFFLEBEAV@SDAARCHTECTS.COV

GML ENGINEER

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

STRUCTURAL ENGINEER

ALPERAUDI, INC. 1804 BORWAN GROLE DRIVE ST. LOUIS, MD 63146 T (314) 432-8600 CONTACT: STEVE EHRETT E-MAIL: STEVE.EHRETT@ALPERAUDI.COV

MECHANICAL, ELECTRICAL, PLUMBING ENGINEER

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





ARCHITECT-OF-RECORD CONTACT: SCOTT CLARK E-MAIL: SOLARK@JEMASTL.COM

3750 SOUTH FREMONT SPRINGFIELD, MO 65804 T (417) 877-9600 CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHTECTS.COM

CCCCHRAN 530A E INDEPENDENCE DRIVE UNON, MO 63084 CONTACT: DAVE VAN LEER F (636) 584-0512 E-MAL: DVANLEER@0000-RANCOM

STRUCTURAL ALPERAUDI, INC. 1804 BORWAN GROLE DRIVE ST. LOUS, MO63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE B-RETT E-MAIL: STEVE. EI-PRETT@ALPERAUDI.COM

MECHANICAL, ELECTRICAL, PLUMBING BRICPARTINERSHIP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BOOLEMAN@BRICPARTINERSHP.COM

ARCHITECT OF RECORD:

JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

No. Date Description

04/14/17	ISSUED FOR BID

DRAWNBY: SC/SH

PROJECT NUMBER: 16-1161.07

SHEET TITLE:

COVER SHEET

OCHRAN

CONTACT INFORMATION OWNER OWNER: SCENIC REGIONAL LIBRARY REPRESENTATIVE: STEVEN CAMPBELL (DIRECTOR) ADDRESS: 304 HAWTHORNE DR. UNION, MO PHONE: (636) 583-0652 WATER/SEWER OWNER: CITY OF SULLIVAN REPRESENTATIVE: KENT KOCH ADDRESS: 348 E. SPRINGFIELD RD. SULLIVAN, MO PHONE: (573) 468-4812 **ELECTRIC** OWNER: CITY OF SULLIVAN REPRESENTATIVE: JOE THURMOND ADDRESS: 305 N. PARK ST. SULLIVAN, MO PHONE: (573) 468-4712 TELEPHONE OWNER: FIDELITY COMMUNICATIONS REPRESENTATIVE: ROGER HALMICK ADDRESS: 64 N. CLARK ST. SULLIVAN, MO PHONE: (573) 259-0464 OWNER: LACLEDE GAS REPRESENTATIVE: PATRICK MCMILLEN ADDRESS: #6 PROGRESS PARKWAY, UNION, MO PHONE: (573) 575-4835 SPECIAL NOTES: FOR QUESTIONS OR CLARIFICATION PLEASE CONTACT DAVID VAN LEER AT COCHRAN. PHONE #636-584-0540 **SULLIVAN** VICINITY MAP NO SCALE

FOR SCENIC REGIONAL LIBRARY IN THE CITY OF SULLIVAN, MISSOURI 525 CUMBERLAND WAY

PROJECT NO. 16-6411



- CIVIL ENGINEERING
- LAND SURVEYING

UTILITY RESPONSIBILITY MATRIX FOR THIS PROJECT

OTHERS RESPONSIBILITY-

METER BOX.

-TAPS EXISTING SANITARY SEWER AND PROVIDES CONNECTION FITTING.

-PROVIDE AND INSTALL SERVICE UP TO

PROPERTY LINE.
-PULL CABLES FROM EXISTING INTO BUILDING.

-CONNECT TO EXISTING ELECTRIC AND PLACE NEW TRANSFORMER.

-RUN WIRE FROM EXISTING TO NEW

-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.

CONTRACTOR RESPONSIBILITY-

-INSTALL SERVICE LINE FROM EXISTING TO BUILDING.

TRANSFORMER TO BUILDING.
-PLACE CONDUIT AND MULE TAPE FROM

THIS MATRIX HAS BEEN PROVIDED FOR INFORMATIONAL PURPOSES. THE CONTRACTOR SHALL PROVIDE ANY AND ALL APPURTENANCES, TRENCHING AND BACKFILL, AND OTHER INCIDENTALS TO MEET OR EXCEED THE SPECIFICATIONS OF THE ITEMS LISTED.

EXISTING TO NEW TRANSFORMER

AGENCIES CONTACTS

348 E. SPRINGFIELD RD. SULLIVAN, MO 63080 CONTACT: KENT KOCH

PHONE: (573) 468-4812

FIDELITY COMMUNICATIONS 64 N. CLARK ST. SULLIVAN, MO 63080 CONTACT: ROGER HALMICK

PHONE: (573) 259-0464

SULLIVAN, MO 63080 CONTACT: JOE THURMOND

#6 PROGRESS PARKWAY UNION, MO 63084 CONTACT: PATRICK McMILLEN

HONE: (314) 575-4835

CITY OF SULLIVAN 305 N. PARK ST.

- ARCHITECTURE
- SITE DEVELOPMENT
- MASTER PLANNING
- GENERAL CONSULTING

530A E. INDEPENDENCE DRIVE, UNION, MISSOURI 63084
TELEPHONE (636) 584-0540
FAX (636) 584-0512
E-MAIL mail@cochraneng.com

APRIL, 2017

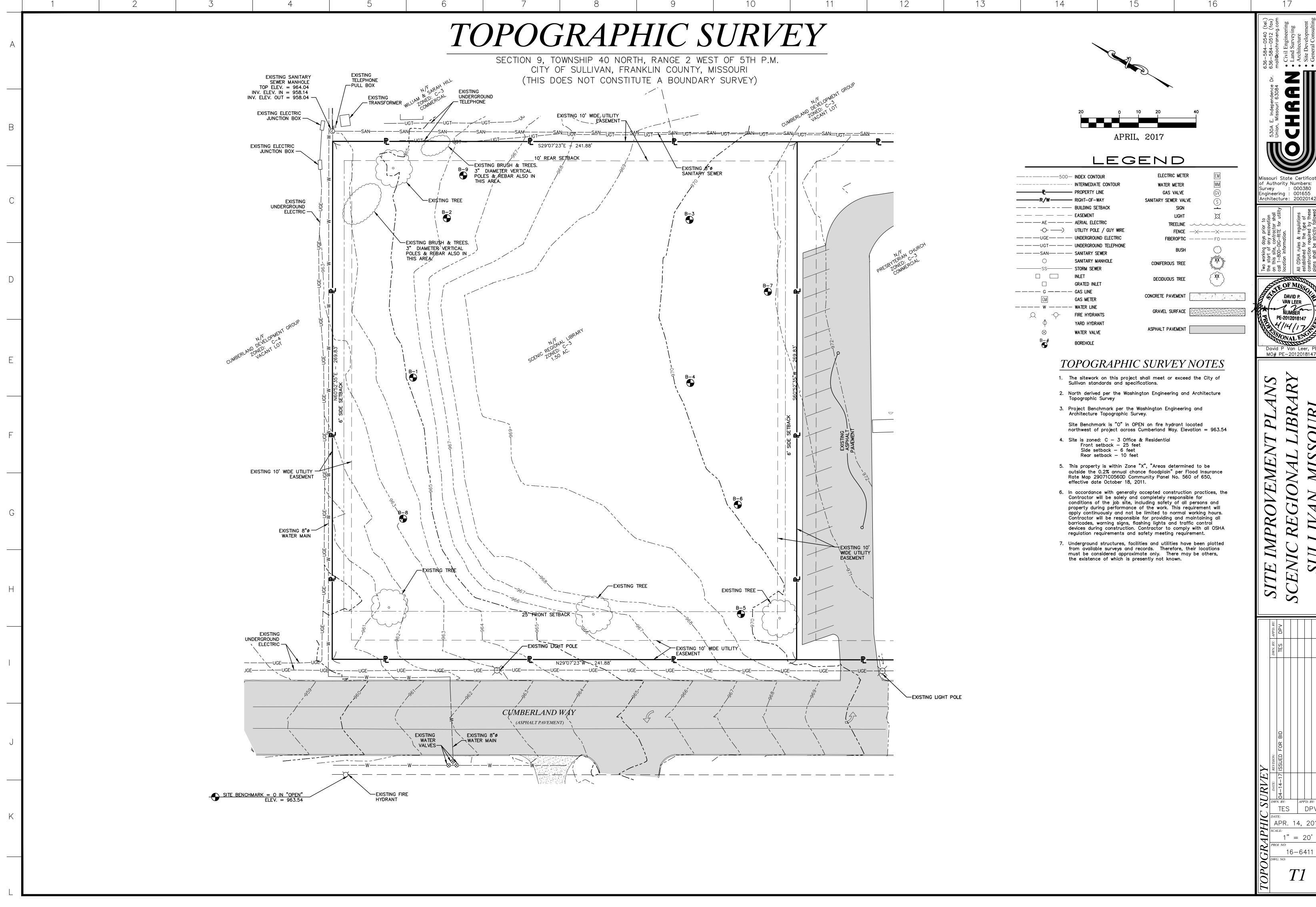
SHEET INDEX	<u>SHEET</u>
TOPOGRAPHIC SURVEY	T1
DEMOLITION PLAN	C1
SITE PLAN	C2
GRADING PLAN	C3
JTILITY PLAN	C4
DETAIL SHEET	D1
DETAIL SHEET	D2
DETAIL SHEET	D3



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 location information.

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

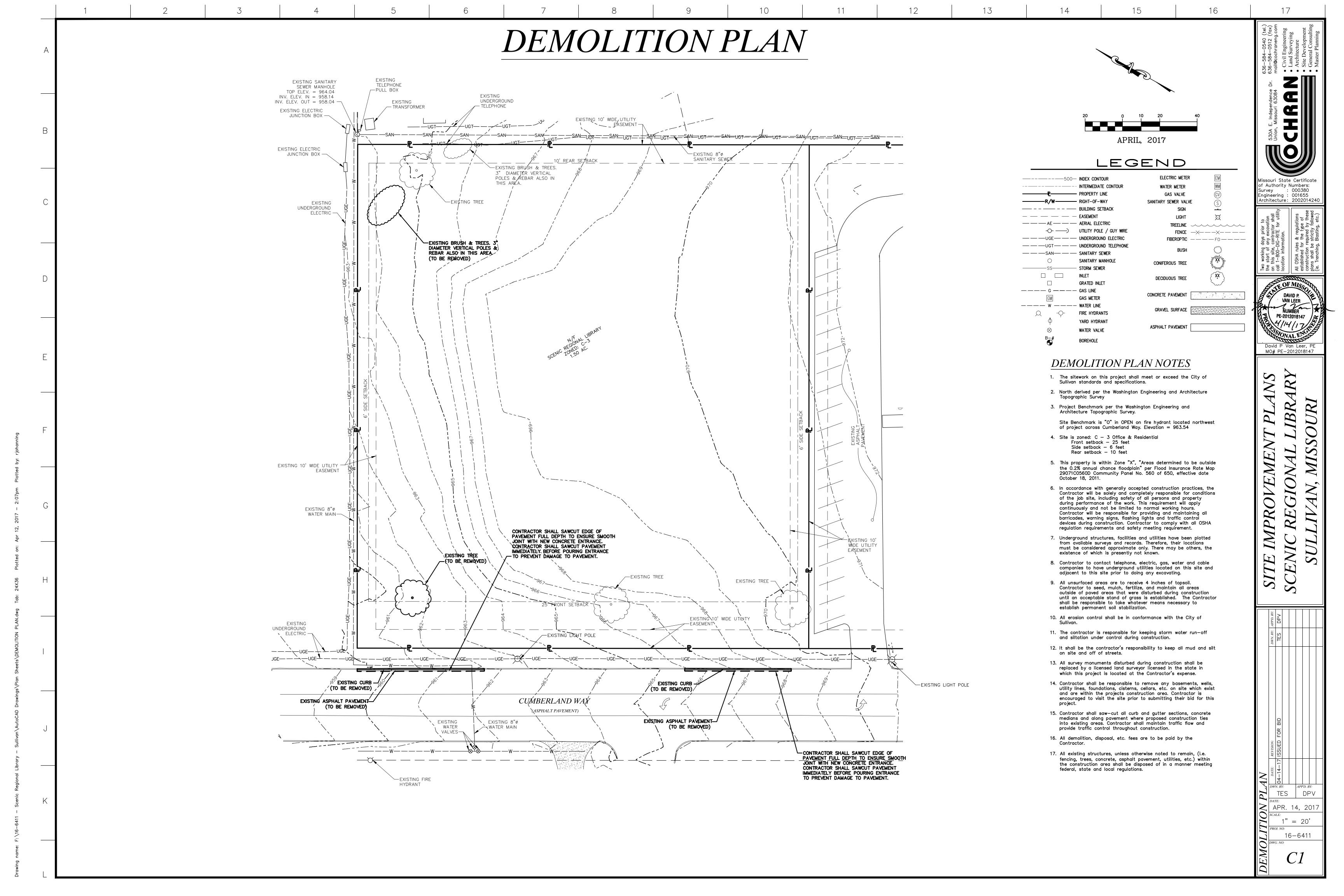


of Authority Numbers: Engineering: 001655 Architecture: 2002014240

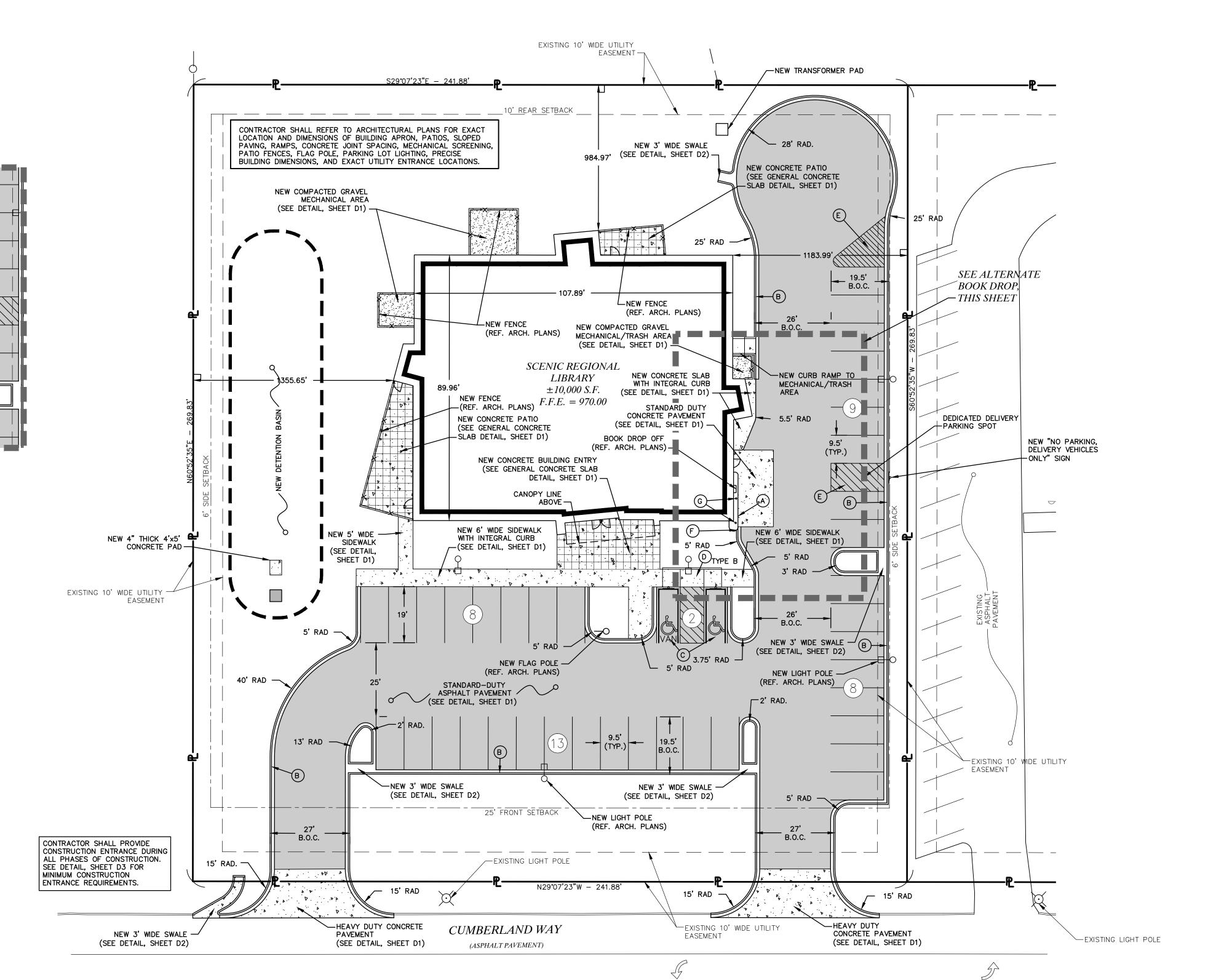
RE

TES APR. 14, 2017

16-6411



SITE PLAN



-EXISTING FIRE

HYDRANT

NEW 4' WIDE SIDEWALK —(SEE DETAIL, SHEET D1)

NEW 4" THICK 4'x4'

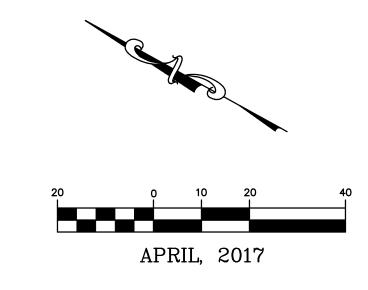
─BOOK DROP OFF

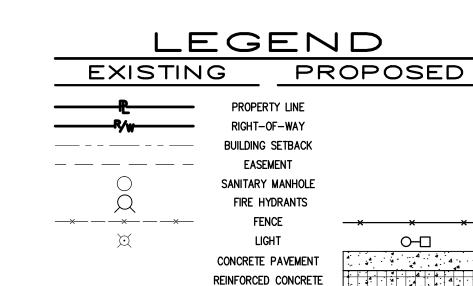
BOOK DROP ALTERNATE

1''=20'

(REF. ARCH. PLANS)

-CONCRETE PAD_





ASPHALT PAVEMENT

GRAVEL

SITE PLAN NOTES

- The sitework on this project shall meet or exceed the City of Sullivan standards and specifications.
- 2. North derived per the Washington Engineering and Architecture Topographic Survey.
- 3. Project Benchmark per the Washington Engineering and Architecture Topographic Survey.
- Site Benchmark is "O" in OPEN on fire hydrant located northwest of project across Cumberland Way. Elevation = 963.54
- 4. Site is zoned "C−3" Office and Residential Districts per the City of Sullivan Zoning Map.
- 5. This property is within Zone X "areas determined to be outside of the 0.2% annual chance floodplain", per Flood Insurance Rate Map 29071C0560D, Community Panel No. 560 of 650, Effective date October 18, 2011
- 6. In accordance with generally accepted construction practices, the Contractor will be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours. Contractor will be responsible for providing and maintaining all barricades, warning signs, flashing lights and traffic control devices during construction. Contractor to comply with all OSHA regulation requirements and safety meeting requirement.
- 7. Underground structures, facilities and utilities have been plotted from available surveys and records. Therefore, their locations must be considered approximate only. There may be others, the existence of which is presently not known.
- 8. All unsurfaced areas are to receive 4 inches of topsoil. Contractor to seed, mulch, fertilize, and maintain all areas outside of paved areas that were disturbed during construction until an acceptable stand of grass is established. The Contractor shall be responsible to take whatever means necessary to establish permanent soil stabilization.
- 9. See landscaping plans for landscaping requirements.
- 10. All dimensions are to back of curb unless otherwise noted.
- 11. Contractor shall saw cut all curb and gutter sections, concrete medians and along pavement where new construction ties into existing areas. Contractor shall maintain traffic flow and provide traffic control throughout construction.
- 12. Parking is to be striped with 4" wide painted yellow lines as indicated.
- Refer to architectural plans for exact building dimensions and exact utility entrance locations.

SITE LEGEND

- A 18" CONCRETE CURB. (SEE 18" CONCRETE CURB DETAIL, SHEET D1)
- B 18" CONCRETE CURB AND GUTTER TYPICAL. (SEE 18" CONCRETE CURB AND GUTTER DETAIL, SHEET D1)
- CONCRETE CORB AND GOTTER DETAIL, SHEET DT)

 ACCESSIBLE PARKING SPACE TYPICAL. SEE "PARKING LOT STRIPING DETAILS," SHEET DT FOR ACCESSIBLE PARKING
- SPACE SIZE, SIGN AND SYMBOL ("VAN" INDICATES VAN ACCESSIBLE SPACE)
- D NEW ADA RAMP
 (SEE DETAIL, SHEET D1)
- E PAINTED PAVEMENT STRIPING. STRIPES SHALL BE PAINTED 4" WIDE SOLID YELLOW LINE AT 2'-0" O.C. AT 45'.
- BOOK DROP CURB TRANSITION ELEVATION (SEE DETAIL, SHEET D1)
- PIPE BOLLARD
- © PIPE BOLLARD
 (SEE DETAIL, SHEET D1)

SITE DATA

LIBRARY TRACT

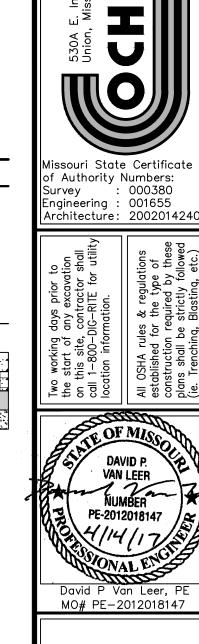
1.50 AC. ±

PARKING DATA

BUILDING
STANDARD SPACES
ACCESSIBLE SPACES
TOTAL PARKING SPACES
PARKING RATIO
REQ'D PARKING RATIO

10,000 S.F.
38 SPACES
2 SPACES
40 SPACES
4.00/1000 S.F.
3.33/1000 S.F.

ROLLOUT GARBAGE CAN WILL BE STORED IN SCREENED MECHANICAL AREA.



SITE IMPROVEMENT PLAI SCENIC REGIONAL LIBRA SULLIVAN, MISSOURI

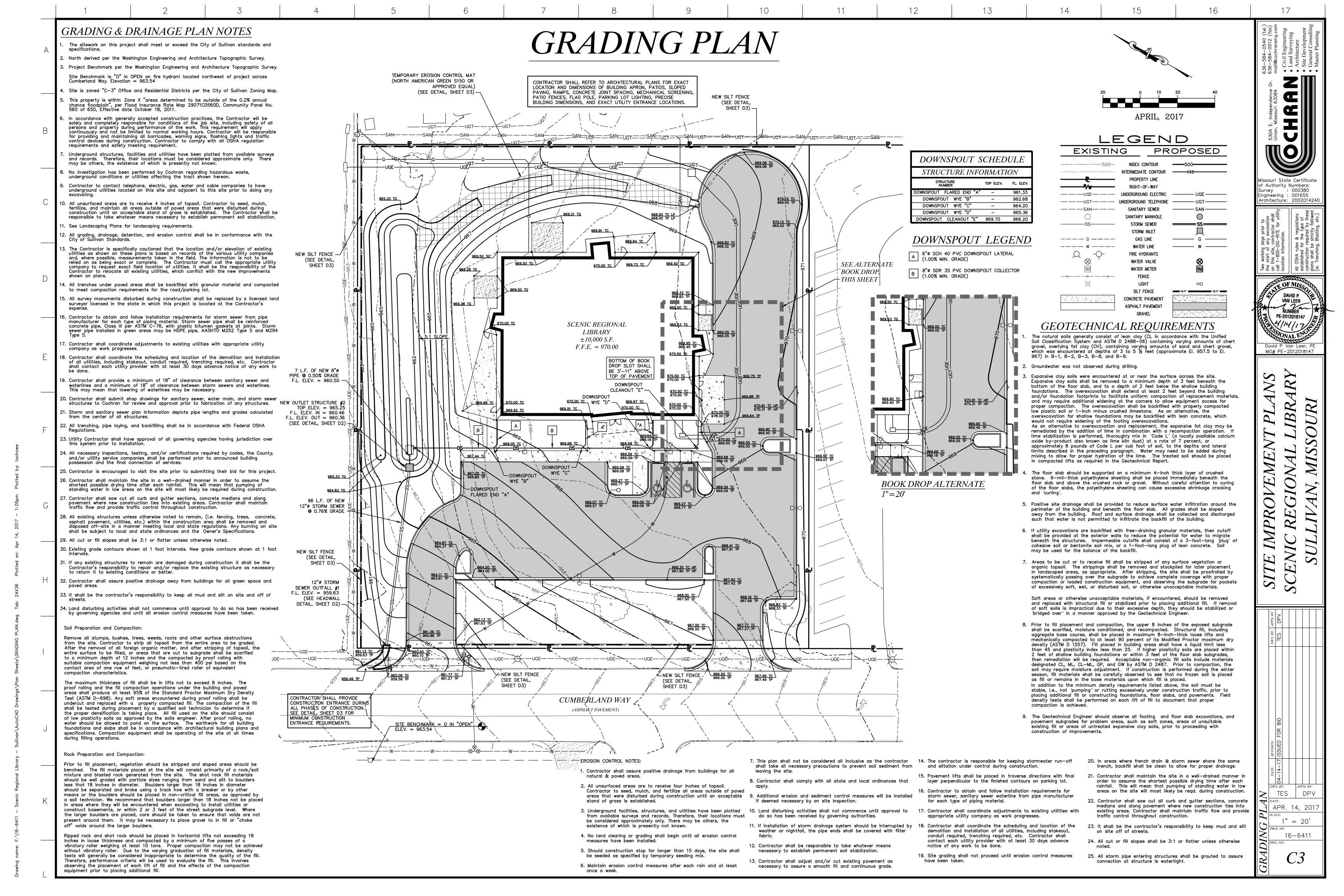
DWN. BY:
TES DPV

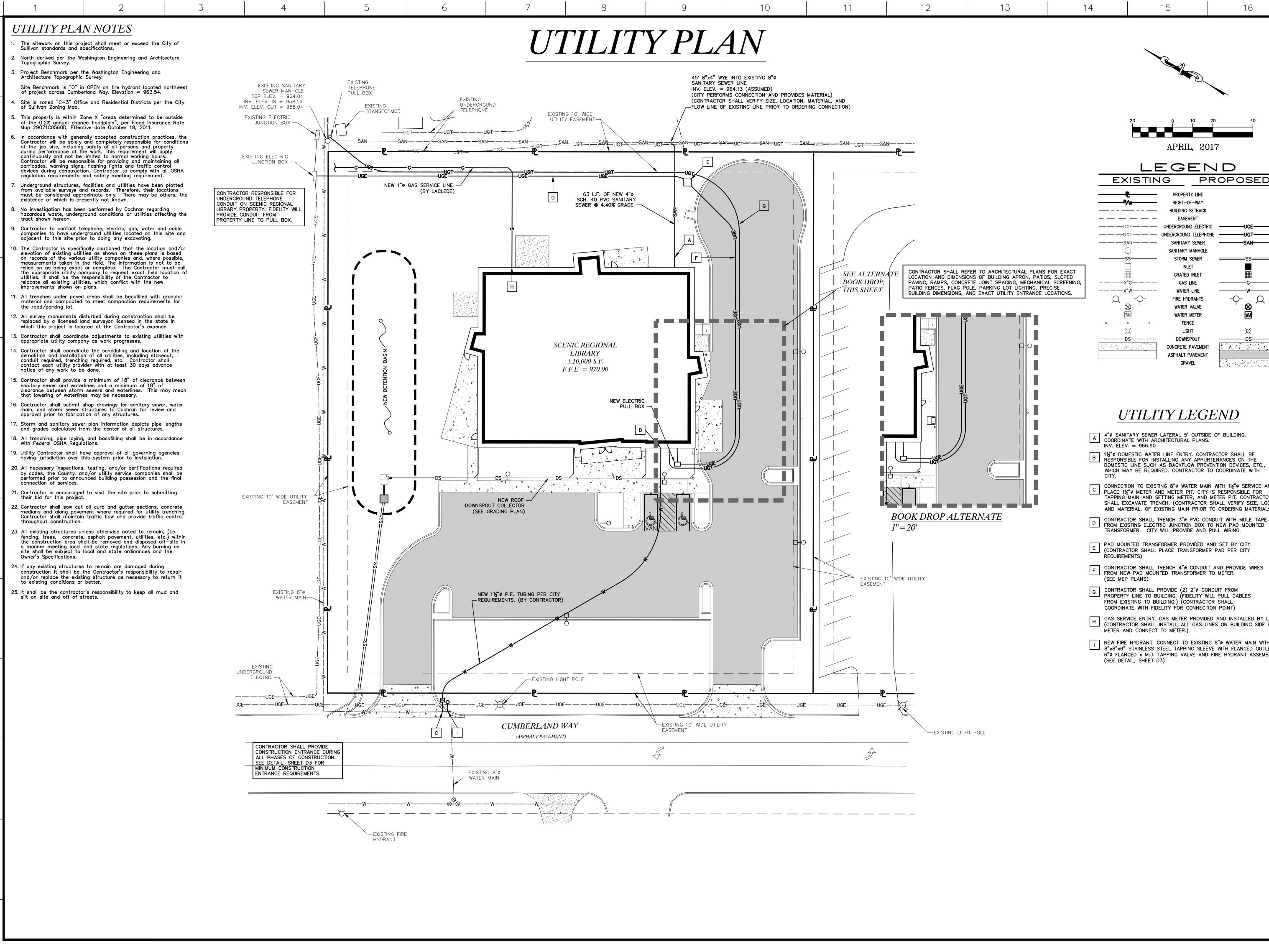
DATE:
APR. 14, 2017

SCALE:

1" = 20'
PROJ. NO:
16-6411

DWG. NO:
16-6411





APRIL, 2017

4 4 4

LEGEND

PROPOSED PROPERTY LINE RIGHT-OF-WAY BUILDING SETBACK — — — UGE — — UNDERGROUND ELECTRIC — UGE — ————UGT———— UNDERGROUND TELEPHONE ————UGT——— SANITARY SEWER SANITARY MANHOLE STORM SEWER INLET GRATED INLET GAS LINE WATER LINE FIRE HYDRANTS WATER VALVE WATER METER FENCE

- A 4"ø SANITARY SEWER LATERAL 5' OUTSIDE OF BUILDING. COORDINATE WITH ARCHITECTURAL PLANS.
- B 1½"ø DOMESTIC WATER LINE ENTRY. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ANY APPURTENANCES ON THE
- WHICH MAY BE REQUIRED. CONTRACTOR TO COORDINATE WITH CONNECTION TO EXISTING 8"Ø WATER MAIN WITH 1½"Ø SERVICE AND PLACE 1½"Ø METER AND METER PIT. CITY IS RESPONSIBLE FOR
- SHALL EXCAVATE TRENCH. (CONTRACTOR SHALL VERIFY SIZE, LOCATION, AND MATERIAL, OF EXISTING MAIN PRIOR TO ORDERING MATERIALS)
- TRANSFORMER. CITY WILL PROVIDE AND PULL WIRING.
- F CONTRACTOR SHALL TRENCH 4"Ø CONDUIT AND PROVIDE WIRES FROM NEW PAD MOUNTED TRANSFORMER TO METER.
- G CONTRACTOR SHALL PROVIDE (2) 2"ø CONDUIT FROM PROPERTY LINE TO BUILDING. (FIDELITY WILL PULL CABLES FROM EXISTING TO BUILDING.) (CONTRACTOR SHALL COORDINATE WITH FIDELITY FOR CONNECTION POINT)
- H GAS SERVICE ENTRY. GAS METER PROVIDED AND INSTALLED BY LACLEDE. (CONTRACTOR SHALL INSTALL ALL GAS LINES ON BUILDING SIDE OF GAS METER AND CONNECT TO METER.)
- NEW FIRE HYDRANT. CONNECT TO EXISTING 8"Ø WATER MAIN WITH NEW 8"x8"x6" STAINLESS STEEL TAPPING SLEEVE WITH FLANGED OUTLET, 6"ø FLANGED x M.J. TAPPING VALVE AND FIRE HYDRANT ASSEMBLY

issouri State Certificate of Authority Numbers: Survey : 000380 Enginéering : 001655 Architecture: 2002014240

Two

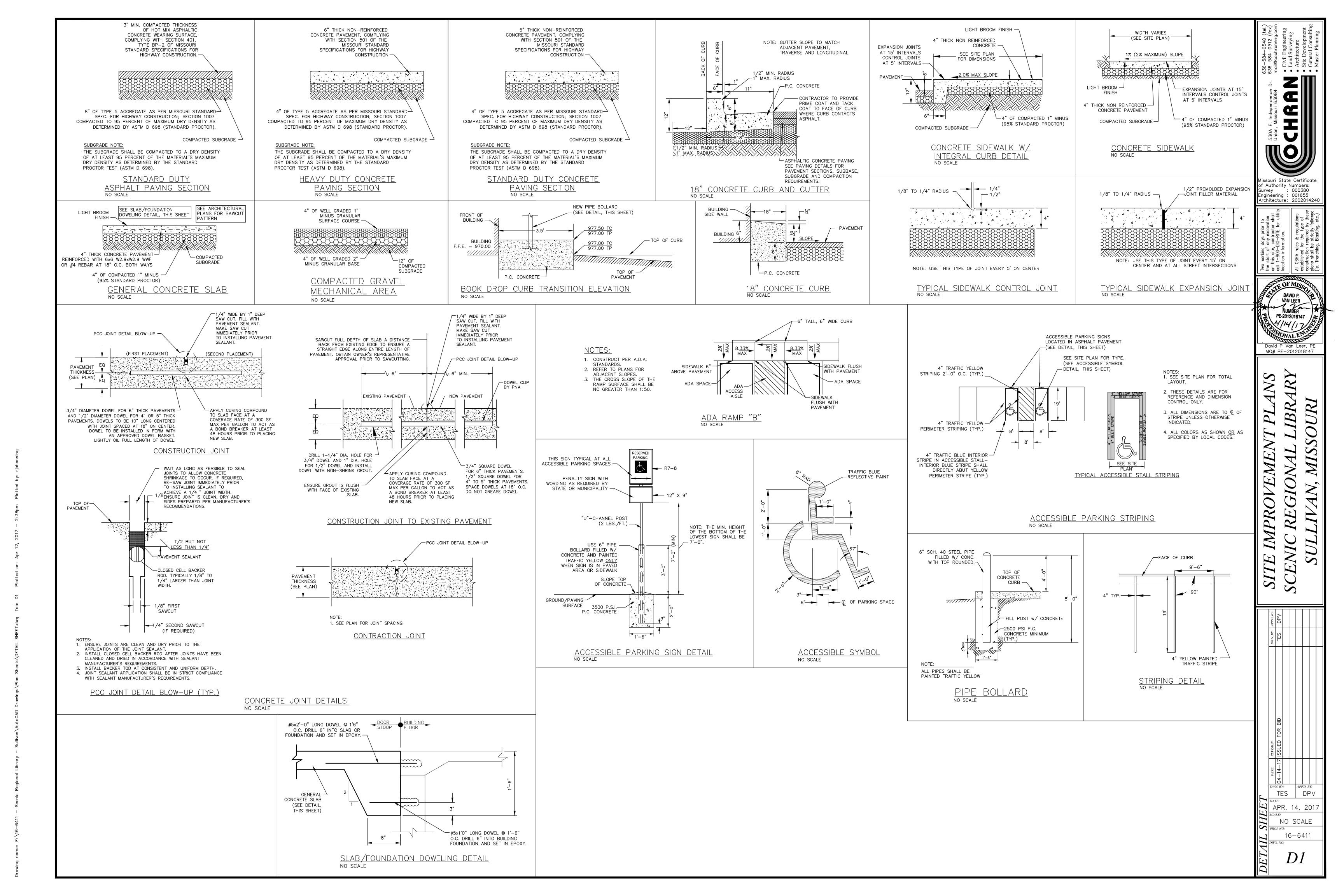
PE-2012018147

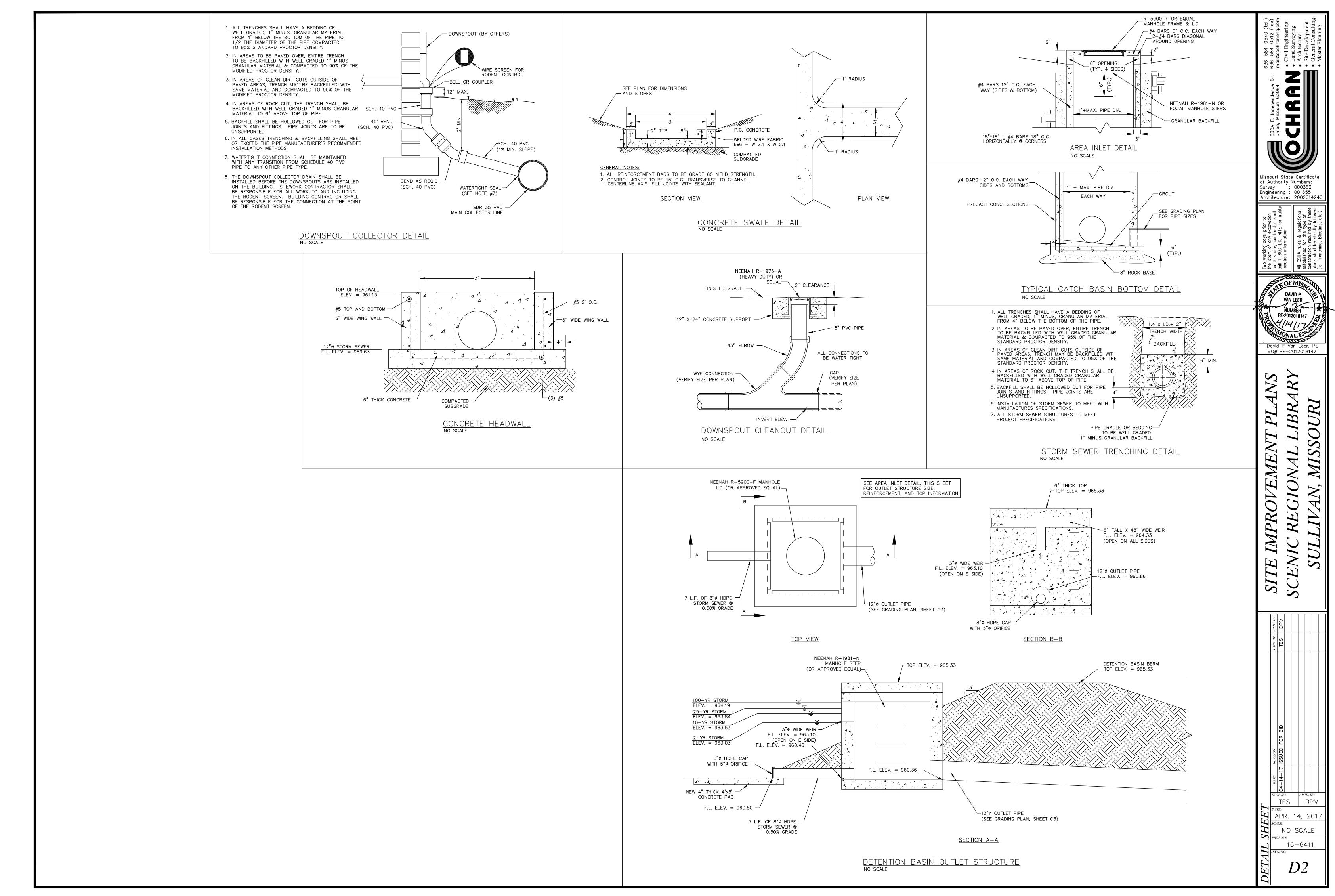
David P Van Leer, Pl MO# PE-2012018147

4N B

PR

TES S APR. 14, 2017 1" = 20'16 - 6411





2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) ACROSS THE WIDTH OF THE RECP's.

3. ROLL CENTER RECP'S IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

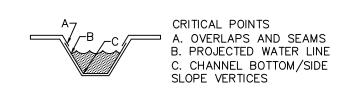
4. PLACE CONSECUTIVE RECP'S END OVER END (SHINGLE STYLE) WITH A 4" - 6" (10 CM -15 CM) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER TO SECURE RECP's.

5. FULL LENGTH EDGE OF RECP'S AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

6. ADJACENT RECP'S MUST BE OVERLAPPED APPROXIMATELY 2" - 5" (5 CM -12.5 CM) (DEPENDING ON RECP'S TYPE) AND STAPLED.

7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9 M - 12 M) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.

8. THE TERMINAL END OF THE RECP'S MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. NOTE: * IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP'S.



CAST IRON VALVE BOX

TYLER PIPE 564-S

OR APPROVED EQUAL

CAST IRON GATE VALVE

OR APPROVED EQUAL

MUELLER A-2360

TRACER

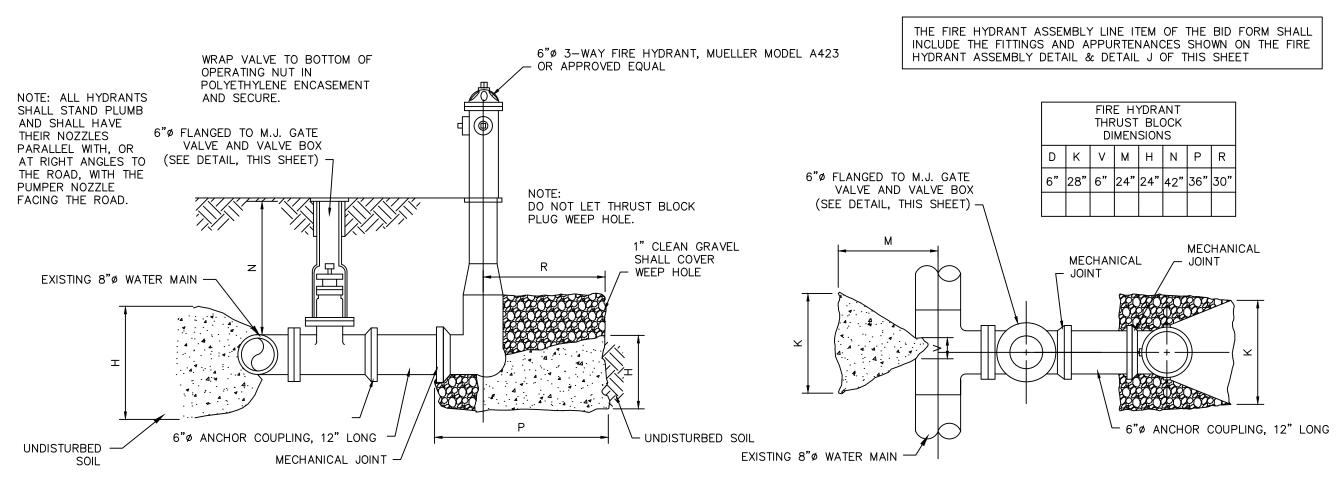
SEE DETAILS —

JOINT TYPES

FOR LOCATIONS AND

* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE -C A. OVERLAPS AND SEAMS CRITICAL POINTS ALONG THE CHANNEL SURFACE. ** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP's.

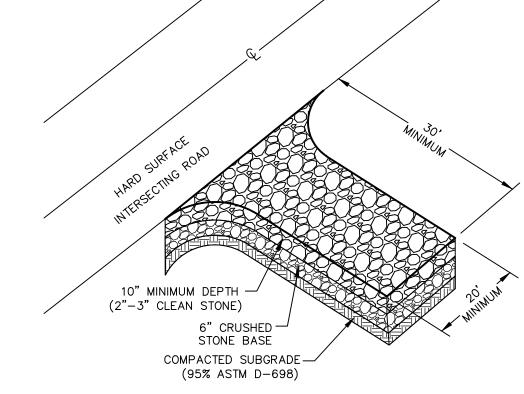
EROSION BLANKET DETAIL



FIRE HYDRANT ASSEMBLY DETAIL PLAN VIEW-FIRE HYDRANT, AUXILIARY <u>Plan View</u>

2. SET THE STAKES ALONG THE DOWNSLOPE SIDE OF THE TRENCH. 1. EXCAVATE A 6"X6" TRENCH 3. STAPLE GEOTEXTILE MATERIAL TO STAKES AND EXTEND 12" INTO THE TRENCH WITH 6" 4. BACKFILL AND COMPACT THE EXCAVATED SOIL. LAID ALONG BOTTOM OF TRENCH POST: T TYPE POST FABRIC: 1. AMOCO 2130 SHEET FLOW INSTALLATION 2. BELTECH 940 (PERSPECTIVE VIEW) 3. MIRAFI 100CX 4. LING GTF 190 NOTE: INSTALL IN ACCORDANCE WITH SILT FENCE DETAIL, EXCEPT AS NOTED ABOVE. 5. SI 915 SC

SEDIMENTATION/SILT FENCE WITHOUT WIRE SUPPORT



NOTE TO GC: THE GOAL OF A CONSTRUCTION EXIT IS TO ELIMINATE TRACK OUT. SIMPLY MANAGING TRACK OUT THROUGH DESIGNATED OR CONTINUAL STREET SWEEPING IS NOT AN ACCEPTABLE PRACTICE. WHILE STREET SWEEPING IS AN ACCEPTABLE PRACTICE FOR REMOVING DUST AND MINIMAL AMOUNTS OF FINE SEDIMENT, OBSERVABLE TRACK OUT FROM THE PROJECT SHOULD TRIGGER THE USE OF ADDITIONAL MEASURES (WHEEL WASH), CONSIDERATION OF ALTERNATE EXITS, OR DISCONTINUING VEHICLE TRAFFIC UNTIL CONDITIONS ON-SITE HAVE IMPROVED. TRACK OUT IS A SEDIMENT RELEASE.

PERFORMANCE STANDARDS:

- 1. ALL SITE ACCESS MUST BE CONFINED TO THE CONSTRUCTION EXIT(S). BARRICADE TO PREVENT USE OF ANY LOCATIONS OTHER THAN THE CONSTRUCTION EXIT(S) WHERE VEHICLES OR EQUIPMENT MAY ACCESS THE SITE.
- CONTRACTOR TO LOCATE TEMPORARY CONSTRUCTION FENCING, JERSEY BARRIERS, OR BOTH ALONG THE SIDES OF THE CONSTRUCTION EXIT TO PREVENT CONSTRUCTION TRAFFIC FROM SHORT CIRCUITING/BYPASSING THE EXIT.
- IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION EXIT(S) IS NOT SUFFICIENT TO PREVENT TRACKING OF DIRT, DUST OR MUD, THEN TIRES MÙST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. ALL WASH WATER MUST BE ROUTED TO A SEDIMENT TRAP OR OTHER TREATMENT AREA AND SHALL NOT BE DIRECTLY DISCHARGED OFF-SITE.
- 4. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE MUST BE INSPECTED FOR EVIDENCE OF SEDIMENT TRACKING BEYOND THE PERMITTED PROJECT AREA. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- WITHIN THE SAME DAY AS DISCOVERY) AND DISPOSED OF IN AN APPROPRIATE MANNER. SEDIMENT SHALL NOT BE WASHED INTO STORM SEWER SYSTEMS.

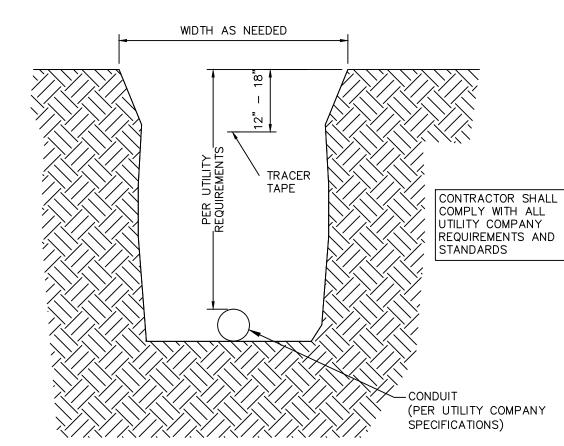
5. ANY SEDIMENT DEPOSITED ON THE ROADWAY SHALL BE SWEPT AS NECESSARY (AND

6. EXIT(S) SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD BEYOND THE EXIT(S). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION EXIT(S) AS CONDITIONS DEMAND. CONTRACTOR SHALL BE PERMITTED TO TURN THE STONE WHEN THE SURFACE BECOMES

SMOOTH AND SURFACE VOIDS ARE FILLED TO MAINTAIN EFFECTIVENESS OF

CONSTRUCTION EXIT UNTIL SUCH TIME THAT VOIDS BELOW THE SURFACE BECOME FILLED AND THE CONSTRUCTION EXIT IS NO LONGER EFFECTIVE. AT SUCH A TIME THE CONTRACTOR SHALL REMOVE THE INEFFECTIVE STONE AND REPLACE PER DETAIL. 8. IF EXIT BMP IS STILL INEFFECTIVE, GC MUST CONTACT THE ENGINEER AND SUBMIT AN

CONSTRUCTION EXIT



1. BACKFILL MATERIAL FOR UNDERGROUND ELECTRIC SHALL BE SUITABLE EARTH, FREE FROM LARGE ROCKS OR STONES.

2. ALL TRENCHES IN AREAS OF UNSUITABLE EARTH USED FOR UNDERGROUND ELECTRIC SHALL HAVE A BEDDING OF WELL-GRADED, 1" MINUS, GRANULAR BACKFILL FROM 4" BELOW THE BOTTOM OF THE PIPE TO ONE-HALF THE DIAMETER OF THE PIPE COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY. (ASTM D-698)

3. IN AREAS OF CLEAN DIRT CUTS OUTSIDE OF PAVED AREAS, TRENCH MAY BE BACKFILLED WITH SAME MATERIAL AND COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY. (ASTM D-698)

4. IN AREAS OF ROCK CUT, THE TRENCH SHALL BE BACKFILLED WITH WELL-GRADED GRANULAR COMPACTED MATERIAL TO SIX INCHES ABOVE TOP OF PIPE.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH SETTLEMENT.

6. IN PAVED (OR GRAVEL) AREAS WELL-GRADED 1" MINUS GRANULAR BACKFILL COMPACTED TO 95% OF STANDARD PROCTOR DENSITY (ASTM-698) SHALL BE USED. 7. TRACER TAPE SHALL BE 3" WIDE, BONDED LAYER PLASTIC WITH MAGNETIC FOIL CORE, TERRA TAPE DETECTABLE, MANUFACTURED BY GRIFFOLYN CO. OF HOUSTON,

<u>underground utility trenching de</u>tail

TEXAS, AND SHALL HAVE THE WORDS "CAUTION: "ELECTRICAL CONDUIT BURIED BELOW"

1.4 x I.D.+12"

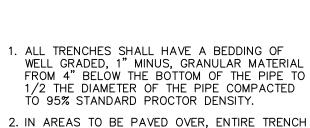
4"+d/2"

TRENCH WIDTH

-BACKFILL-

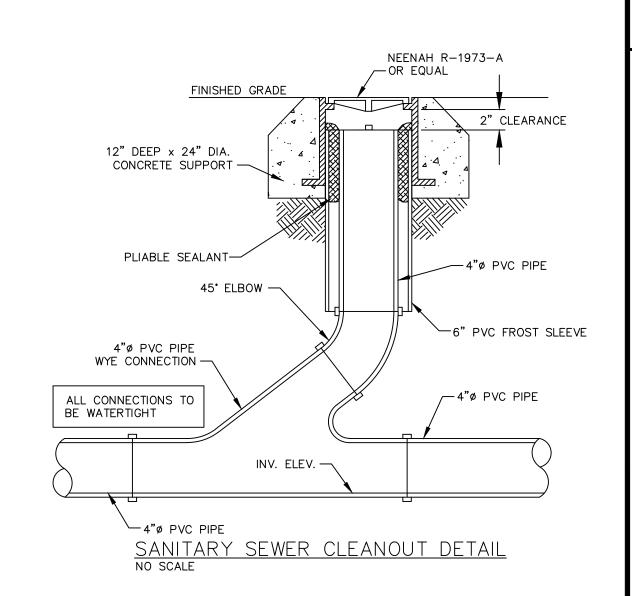
PIPE CRADLE OR BEDDING -

TO BE WELL GRADED



- TO BE BACKFILLED WITH WELL GRADED GRANULAR MATERIAL & COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY. 3. IN AREAS OF CLEAN DIRT CUTS OUTSIDE OF
- PAVED AREAS, TRENCH MAY BE BACKFILLED WITH SAME MATERIAL AND COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY. 4. IN AREAS OF ROCK CUT, THE TRENCH SHALL BE
- BACKFILLED WITH WELL GRADED GRANULAR MATERIAL TO 6" ABOVE TOP OF PIPE. 5. CONTRACTOR SHALL BE RESPONSIBLE FOR
- TRENCH SETTLEMENT. 6. IN AREAS WHERE BACKFILL MATERIAL CONTAINS ROCK, CONTRACTOR TO PLACE 1" MINUS GRANULAR MATERIAL A MINIMUM OF 4" ABOVE PIPES.





Survey

of Authority Numbers: : 000380 Enginéering : 001655 Architecture : 2002014240

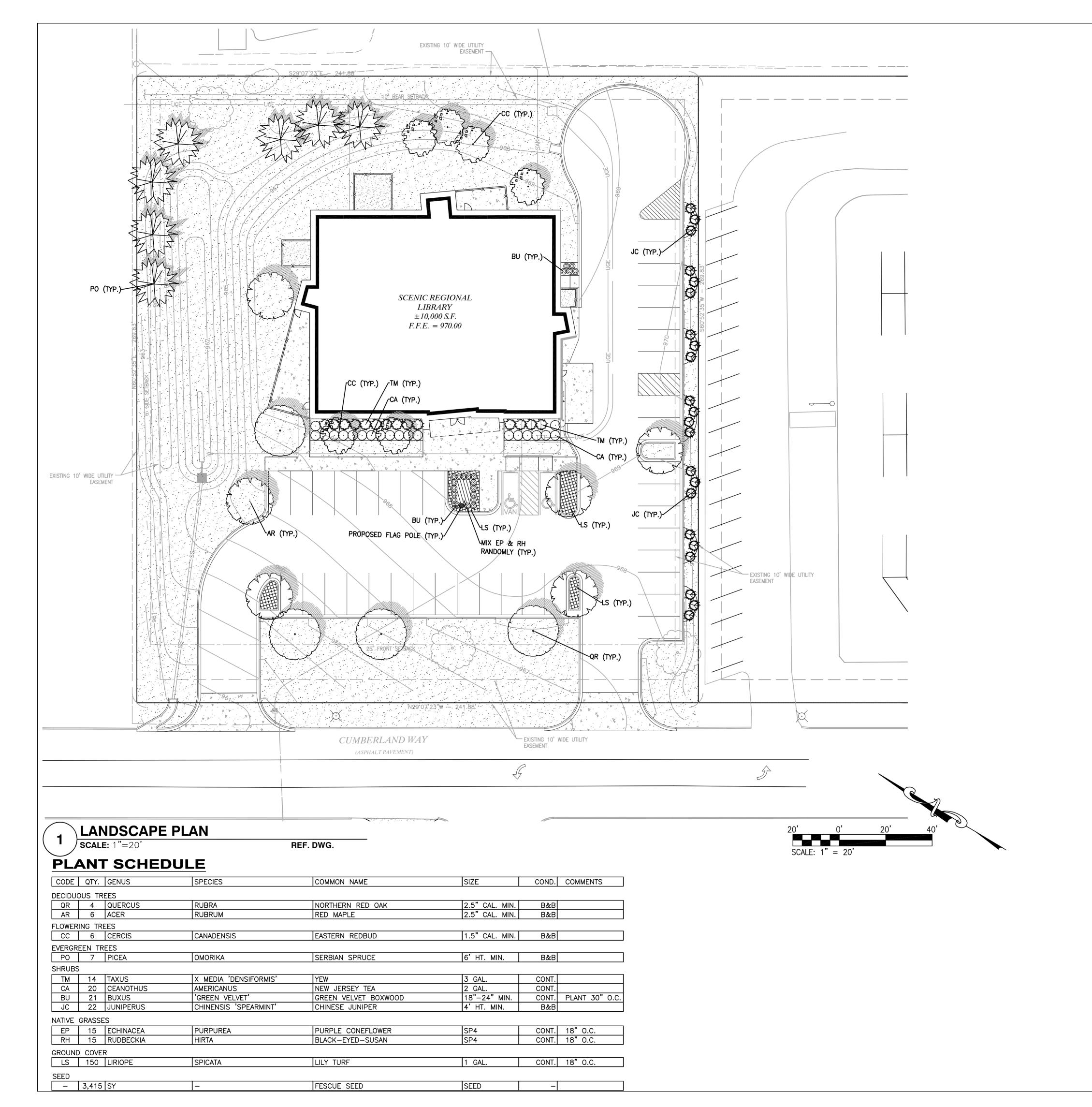
days any cont working start of this site, 1-800-D Two the on call

PE-2012018147 David P Van Leer,

MO# PE-2012018147

B PR

TES 🖺 APR. 14, 2017 NO SCALE 16 - 6411

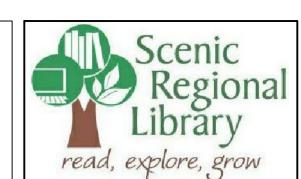


LANDSCAPE NOTES:

- LANDSCAPE CONTRACTOR TO VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE BEGINNING WORK.
 ALL LANDSCAPE SHALL COMPLY WITH THE CURRENT EDITION OF ANSI Z 60.1 "AMERICAN STANDARD FOR
- 3. ALL PLANTS SHALL MEET THE REQUIREMENTS OF THE STATE AND FEDERAL LAW WITH RESPECT TO DISEASE AND INSECT INFESTATION.
- 4. MULCH AREAS WITH TRIPLE GROUND HARDWOOD MULCH 3" MIN. DEPTH.
- 5. ALL LANDSCAPE SUBSTITUTIONS MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE/LANDSCAPE
- 6. FORMAL LINES AND GROUPINGS OF A SPECIES OF TREE, SHRUB, OR GROUNDCOVER SHALL BE MATCHED FOR SIZE, FORM, AND COLOR.
- 7. ALL BACKFILL IN PLANTING BEDS AND TREE PITS SHALL BE BACKFILLED WITH PLANTING SOIL.
- 8. ALL TREES OUTSIDE OF PLANT BEDS SHALL BE PLANTED WITH A MULCH RING. OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT FOR ANY TREES THAT WILL NOT BE MULCHED FOR EXCESSIVE MOISTURE REASONS.
- 9. ALL LANDSCAPING SHALL BE INSTALLED AS SHOWN ON THE APPROVED PLAN.
- 10. AT PLANTING, TREE TRUNKS MUST BE STRAIGHT WITH MINIMAL DOGLEGS.
 11. WIRE BASKETS, BURLAP WRAPPINGS, ROPE, TWINE OR ANY SIMILAR SHIPPING MATERIALS SHALL BE
- REMOVED BEFORE PLANTING.
- 12. A SPADE CUT EDGE SHALL BE CREATED AT ALL LOCATIONS WHERE PLANTING BEDS ARE ADJACENT TO GRASS AREAS UNLESS OTHERWISE NOTED.
- 13. SEE CIVIL PLANS FOR TYPE AND LOCATION OF EROSION CONTROL MATERIALS.
- 14. DO NOT DISTURB EXISTING UTILITIES WITHIN WORK AREA, SILT FENCE AND PLANTINGS SHALL AVOID ANY EXISTING UTILITIES.
- 15. THE CONTRACTOR SHALL FOLLOW THE LANDSCAPE PLANS. ANY SUBSTITUTION OR ALTERATION SHALL NOT BE ALLOWED WITHOUT APPROVAL OF THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT. OVERALL PLANT QUANTITY AND QUALITY SHALL BE CONSISTENT WITH THE PLANS.
- 16. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES. WRITTEN QUANTITIES TAKES PRECEDENCE OVER GRAPHIC QUANTITIES. NOTIFY OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT OF DISCREPANCIES
- 17. THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT RESERVES THE RIGHT TO INSPECT AND TAG ALL PLANT MATERIAL PRIOR TO SHIPPING TO THE SITE. IN ALL CASES, THE LANDSCAPE ARCHITECT MAY REJECT PLANT MATERIAL AT THE SITE IF MATERIAL IS DAMAGED, DISEASED, OR DECLINING IN HEALTH AT THE TIME OF ONSITE INSPECTIONS OR IF THE PLANT MATERIAL DOES NOT MEET THE MINIMUM SPECIFIED STANDARD IDENTIFIED ON THE PLANS AND IN THE SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT FOR INSPECTION AND APPROVAL OF ALL MATERIALS AND PRODUCTS PRIOR TO INSTALLATION.
- 18. THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT MAY ELECT TO UPSIZE PLANT MATERIAL AT THEIR DISCRETION BASED ON SELECTION, AVAILABILITY, OR TO ENHANCE SPECIFIC AREAS OF THE PROJECT. THE CONTRACTOR SHALL VERIFY PLANT MATERIAL SIZES WITH OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT PRIOR TO PURCHASING, SHIPPING OR STOCKING OF PLANT MATERIALS. SUBMIT CHANGE ORDER REQUEST TO OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT FOR APPROVAL IF ADDITIONAL COST IS REQUESTED BY THE CONTRACTOR PRIOR TO INSTALLATION. RE—STOCKING CHARGES WILL NOT BE APPROVED IF THE CONTRACTOR FAILS TO SUBMIT A REQUEST FOR MATERIAL CHANGES.
- 19. THE CONTRACTOR SHALL WARRANTY ALL CONTRACTED WORK AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION HAS BEEN ISSUED BY THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT FOR THE ENTIRE PROJECT UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS OR SPECIFICATIONS
- 20. THE DEVELOPER, HIS SUCCESSORS AND ASSIGNS SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE AND REPLACEMENT OF ALL LANDSCAPING MATERIALS SHOWN OR INDICATED ON THE APPROVED LANDSCAPE PLAN ON FILE WITH THE PLANNING DEPARTMENT. ALL LANDSCAPING WILL BE INSTALLED AS DELINEATED ON THE PLAN, PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.
- 21. PRIOR TO INSTALLATION OF PLANT MATERIALS, AREAS THAT HAVE BEEN COMPACTED OR DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE THOROUGHLY LOOSENED TO A DEPTH OF 8" 12" AND AMENDED PER SPECIFICATIONS.
- 22. ALL LANDSCAPED AREAS ARE TO HAVE SOIL PREPARATION PER SPECIFICATIONS. (MINIMUM RATE OF 3 CU. YDS. OF ORGANIC MATTER PER 1000 S.F.). TREES SHALL NOT BE LOCATED IN DRAINAGE SWALES, DRAINAGE AREAS, OR UTILITY EASEMENTS. CONTACT OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT FOR RELOCATION OF PLANTS IN QUESTIONABLE AREAS PRIOR TO INSTALLATION.
- 23. ALL EVERGREEN TREES SHALL BE FULLY BRANCHED TO THE GROUND AND SHALL NOT EXHIBIT SIGNS OF ACCELERATED GROWTH AS DETERMINED BY THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT.
- 24. ALL TREES ARE TO BE STAKED AND GUYED PER DETAILS FOR A PERIOD OF 1 YEAR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING STAKES AT THE END OF 1 YEAR FROM ACCEPTANCE OF LANDSCAPE INSTALLATION BY THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT. OBTAIN APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO REMOVAL.
- 25. ALL TREES INSTALLED ABOVE RETAINING WALLS UTILIZING GEO-GRID MUST BE HAND DUG TO PROTECT GEO-GRID. IF GEO-GRID MUST BE CUT TO INSTALL TREES, APPROVAL MUST BE GIVEN BY OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT PRIOR TO DOING WORK.
- 26. PLACE PLANT MATERIAL IN SHRUB BED SO THAT ONCE PLANTS GROW TO FULL SIZE THEY ARE FULLY CONTAINED WITHIN THE SHRUB BED AREA AND DO NOT HANG OVER THE EDGER LINE.
- 27. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE EXISTS IN ALL LANDSCAPE AREAS. SURFACE DRAINAGE ON LANDSCAPE AREAS SHALL NOT FLOW TOWARD STRUCTURES AND FOUNDATIONS. MAINTAIN SLOPE AWAY FROM FOUNDATIONS PER THE GEOTECHNICAL REPORT RECOMMENDATIONS. ALL LANDSCAPE AREAS BETWEEN WALKS AND CURBS SHALL DRAIN FREELY TO THE CURB UNLESS OTHERWISE IDENTIFIED ON THE GRADING PLAN. IN NO CASE SHALL THE GRADE, TURF THATCH, OR OTHER LANDSCAPE MATERIALS DAM WATER AGAINST WALKS. MINIMUM SLOPES ON LANDSCAPE AREAS SHALL BE 2%; MAXIMUM SLOPE SHALL BE 25% UNLESS SPECIFICALLY IDENTIFIED ON THE PLANS OR APPROVED BY THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT.
- 28. SHRUB, GROUNDCOVER AND PERENNIAL BEDS ARE TO BE CONTAINED BY A SPADE CUT EDGE. EDGER IS NOT REQUIRED WHEN ADJACENT TO CURBS, WALLS, WALKS OR SOLID FENCES WITHIN 3"OF PRE-MULCHED FINAL GRADE. EDGER SHALL NOT BE REQUIRED TO SEPARATE MULCH TYPES UNLESS SPECIFIED ON THE
- 29. ALL SHRUB BEDS ARE TO BE MULCHED WITH MIN. 3" DEPTH, SHREDDED HARDWOOD BARK MULCH.
 30. AT SEED AREA BOUNDARIES ADJACENT TO EXISTING NATIVE AREAS, OVERLAP ABUTTING NATIVE AREAS BY
- 31. EXISTING TURF AREAS THAT ARE DISTURBED DURING CONSTRUCTION, ESTABLISHMENT AND THE MAINTENANCE PERIOD SHALL BE RESTORED WITH SEED TO MATCH EXISTING TURF SPECIES.
- 32. CONTRACTOR SHALL OVER SEED ALL MAINTENANCE OR SERVICE ACCESS BENCHES AND ROADS WITH SPECIFIED SEED MIX UNLESS OTHERWISE NOTED ON THE PLANS.

THE FULL WIDTH OF THE SEEDER.

- 33. ALL SEEDED SLOPES EXCEEDING 25% IN GRADE (4:1) SHALL RECEIVE EROSION CONTROL BLANKETS. PRIOR TO INSTALLATION, NOTIFY OWNER'S REPRESENTATIVE FOR APPROVAL OF LOCATION AND ANY ADDITIONAL COST IF A CHANGE ORDER IS NECESSARY.
- 34. WHEN COMPLETE, ALL GRADES SHALL BE WITHIN +/- 1/8" OF FINISHED GRADES AS SHOWN ON THE PLANS.



LIBRARY
SULLIVAN BRANCH
525 CUMBERLAND WAY



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) 877-9600 F (417) 877-9696

CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHITECTS.COM

COCHRAN
530A E. INDEPENDENCE DRIVE

UNION, MO 63084 CONTACT: DAVE VAN LEER T (636) 584-0540

F (636) 584-0540 F (636) 584-0512 E-MAIL: DVANLEER@COCHRAN.COM

E-IVIAIL. DVANLEER@COCHRAIN.CO

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

CONTACT: BRUCE COLEMAN
E: BCOLEMAN@BRICPARTNERSHIP.COM

T (314) 725-5889

No. Date Description

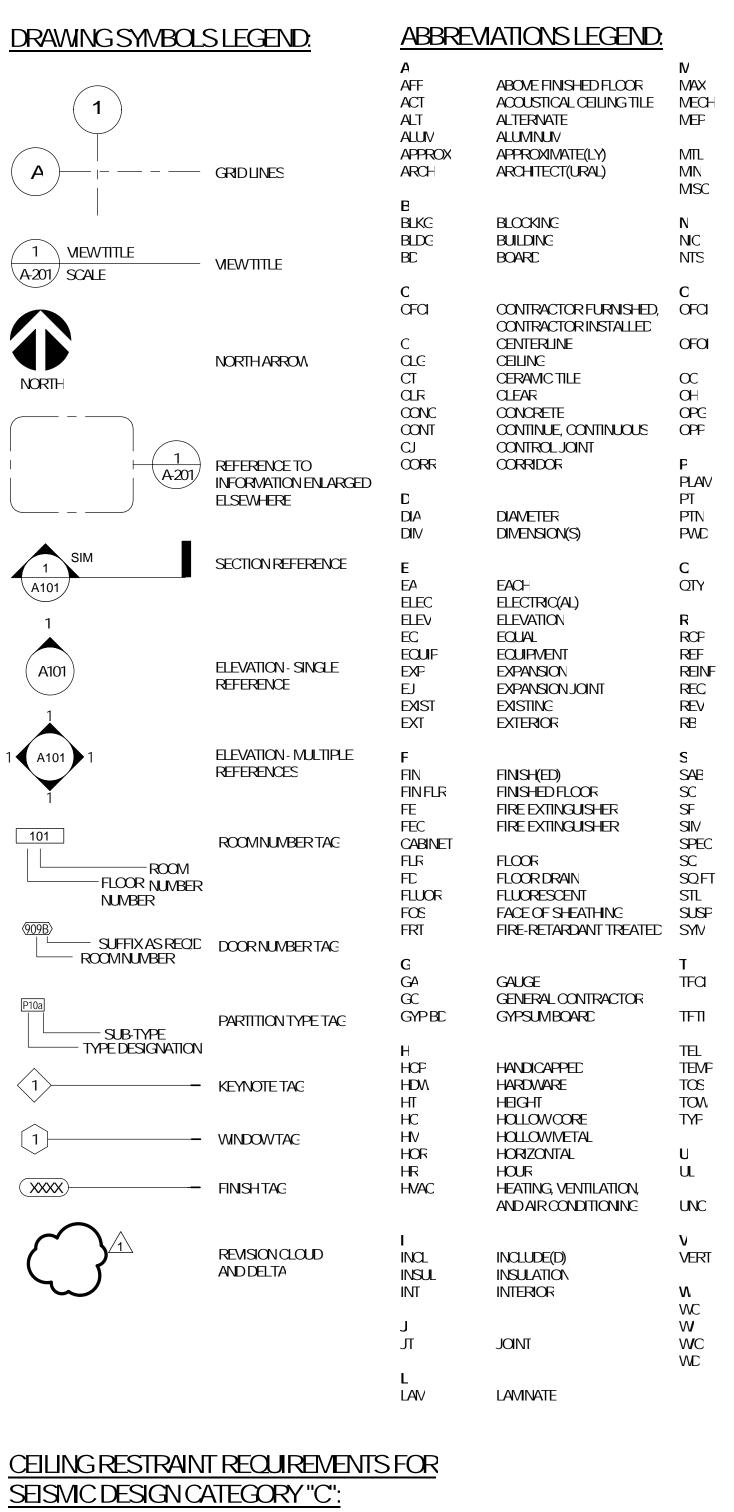
04/14/17 ISSUED FOR BID

DRAWN BY: J.C.H.

PROJECT NUMBER: 16-1161.07

SHEET TITLE: LANDSCAPE PLAN

L1.0



ALL SUSPENDED CEILING SYSTEMS ARE TO BE INSTALLED PER IBC SECTION 1621 REQUIREMENTS, CISCA GUIDELINES FOR SEISMIC ZONES 0, 1 & 2, AND ASCE SECTION 7 REQUIREMENTS.

BASIC CONNECTIONS, PERIMETER, AND LATERAL SPLAY BRACING:

SUSPENDED CEILINGS GREATER THAN 144 S.F. SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING:

MNMUMINTERSECTION STRENGTH LIMTS @WAIN TEE/CROSS TEE IS 60 LBS.

- PROMDEMN. 12-GAUGE VERTICAL HANGER WIRE AT 4-0" O.C. MIN.
- MAIN TEE CLASSIFICATION TO BE INTERMEDIATE- OR HEAVY DUTY.
- 1 IN 6 MAX. PLUMB OF VERTICAL HANGER WIRES REQUIRED. PROMDE MINIMUM 7/8" PERIMETER CLOSURE (MOLDING). IF MOLDING IS LESS THAN 7/8" PROMDE NO. 12 GA HANGER WRES AROUND ENTIRE PERIMETER OF CEILING AT EACH TEE AT A MAX. OF
- 8" OFF THE WALL AND 4"-0" EACH DIRECTION AT NO MORE THAN 1-IN-6 OUT OF PLUMB; ATTACH TOWALL OR STRUCTURE ABOVE
- PROMDEMN. 3/8" GRID END TO WALL CLEARANCE. GRID CONNECTION TO PERIMETER ATTACHED ON TWO ADJACENT WALLS IS NOT PERMITTED.
- TIE PERIMETER TEE ENDS TOGETHER PARTITION ATTACHMENT IS ALLOWED ONLY OF CEILING IS ABLE TO MOVE LATERALLY.

LIGHT FIXTURE ATTACHMENT:

- MECHANICALLY ATTACH ALL LIGHT FIXTURES TO CEILING GRID. ATTACHMENTS MUST SUPPORT 100% OF LIGHT FIXTURE WEIGHT.
- SURFACE-MOUNTED FIXTURES DO NOT REQUIRE ATTACHMENT TO GRID.
- SUPPORT PENDANT-HUNG FIXTURES DIRECTLY FROM STRUCTURE WITH 9-GAUGE WIRE OR
- APPROVED ALTERNATE.
- FOR RIGID LAY-IN OR CAN LIGHT FIXTURES WEIGHING LESS THAN 10 LBS PROMDE (1) WIRE TO STRUCTURE (MAY BE SLACK). FOR RIGID LAY-IN OR CAN LIGHT FIXTURES WEIGHING FROM 10 TO 56 POUNDS PROMDE (2) VERTICAL SUPPORT WIRES (MUST BE SLACK). FOR LIGHT FIXTURES CREATER THAN 56 POUNDS PROMDE DIRECT AND INDEPENDENT SUPPORT FROM THE BUILDING STRUCTURE

SERMCE APPLICATIONS:

- ALL MECHANICAL AIR TERMINALS MUST BE POSITIVELY ATTACHED TO THE CEILING GRID. FOR TERMINALS WEIGHING FROM 20 TO 56 POUNDS PROMDE (2) VERTICAL SUPPORT WIRES (MAY BE SLACK) FOR TERMINALS WEIGHING GREATER THAN 56 POUNDS PROMDE DIRECT AND INDEPENDENT SUPPORT FROM THE BUILDING STRUCTURE
- SPRINKLER HEADS AND OTHER PENETRATIONS REQUIRE AMN. 3/8" CLEARANCE ON ALL SIDES. CABLE TRAYS AND ELECTRICAL CONDUIT DO NOT REQUIRE INDEPENDENT SUPPORT OR BRACING.

DEFINITION OF TERMS:

MAXIMUV

METAL

MNIMUV

MSCELLANEOUS

NOT IN CONTRACT

OWNER FURNISHED,

OWNER FURNISHED,

OWNERINSTALLED

PLASTIC LAMINATE

REFLECTED CEILING PLAN

SOUND ATTENUATION BATTS

TENANT (CLIENT) FURNISHED,

TENANT (CLIENT) FURNISHED,

UNLESS NOTED OTHERWISE

EQUIPMENT LEGEND

l av l

REF

VEND

COFFEE MAKER (T.F.C.I.):

REFRIGERATOR (T.F.C.I.):

<u>ICE MAKER (T.F.C.I.):</u>

MCROWAVE (T.F.T.I.):

VENDING-SNACK (T.F.C.I.):

ADDITIONAL REQUIREMENTS.

REQUIREMENTS.

AND ADDITIONAL REQUIREMENTS.

AND ADDITIONAL REQUIREMENTS.

AND ADDITIONAL REQUIREMENTS.

PROMDE REQUIRED ELECTRICAL AND PLUMBING.

COORDINATE WITH CLIENT FOR SPECIFICATION

PROMDE ELECTRICAL DUPLEX RECEPTACLE

COORDINATE WITH CLIENT FOR SPECIFICATION

PROMDE REQUIRED ELECTRICAL AND PLUMBING.

COORDINATE WITH CLIENT FOR SPECIFICATION

PROMDE REQUIRED ELECTRICAL. COORDINATE

PROMDE REQUIRED ELECTRICAL COORDINATE

WITH CLIENT FOR SPECIFICATION AND

WITH CLIENT FOR SPECIFICATION AND ADDITIONAL

CONTRACTOR INSTALLED

TENANT INSTALLED

TOP OF STRUCTURE

TELEPHONE

TEMPERED

TOP OF WALL

TYPICAL

VERTICAL

WITH-

WITHOUT

WOOD

WALL COVERING

SQUARE FOOT (FEET)

SQUARE FOOT (FEET)

ONCENTER

OPENING

OPPOSITE

PAINT(ED)

PARTITION

PLYWOOD

CUANTITY

REFERENCE

REQUIRED

REVISION

REINFORCE(D)

RESILIENT BASE

SOLIDCORE

SPECIFICATION

SUSPEND(ED)

SYMMETRICAL

SIMLAR

SQUARE

STEEL

OPPOSITE HAND

CONTRACTOR INSTALLED

NOT TO SCALE

MECHANICAL

MECH., ELECT., AND PLUMBING

- THE WORD "CLIENT" AS USED IN THESE DOCUMENTS REFERS TO THE ENTITY WHO HAS CONTRACTED THE ARCHITECT TO PERFORMPROFESSIONAL SERMCES 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,
- 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 INFORMATION INDICATED. IF DISCREPANCIES OCCUR, NOTIFY ARCHITECT IMMEDIATELY.
- 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 "MINIMUM" OR "MIN" 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 DIMENSION 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.

GENERAL NOTES: REFLECTED CEILING PLAN

- REMEWCEILING LAYOUT AS SHOWN AND NOTIFY ARCHITECT OF ANY CONFLICTS WITH STRUCTURAL, ELECTRICAL, MECHANICAL, PIPEWORK, FIRE PROTECTION SYSTEMS, ETC.
- BEFORE PROCEEDING WITH CONSTRUCTION U.N.O. ALL NEW SUSPENDED ACCUSTICAL CEILING GRID AND TILE SYSTEMS ON PLANTO BE ACT-1. CENTER GRID ON COLUMN CENTERLINE OR REFERENCE GRID STARTING POINT ON PLAN. REFER TO FINISH LEGEND FOR SPECIFICATION.
- INSTALL NEW CEILINGS TO COMPLY WITH ALL SEISMIC RESTRAINT REQUIREMENTS IN ACCORDANCE WITH ALL LOCAL BUILDING CODES, REFER TO SEISM CINFORWATION ON SHEET
- 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
- INFORMATION. U.N.O. ALL G.W.B. CEILINGS 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 CENTER ALL SPRINKLER HEADS WITHIN 3" OF CENTER OF A C.T.
- REFER TO ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL WALL-MOUNTED LIGHT
- UNDERWRITERS LABORATORIES, 12 COORDINATE AND VERIFY LOCATION OF LIGHT SWITCHES, THERWOSTATS, FIRE ALARVS, 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 RESTROOMS, SHOWER ROOMS 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 ROOM UNDER A SINGLE COVERPLATE. U.N.O. POWER OUTLETS, COMMUNICATIONS RECEPTACLES, COVER PLATES, DEVICES, ETC. TC
 - BE BUILDING STANDARD HEIGHT. REFER TO ELECTRICAL SHEETS FOR ELEC/COMM SYMBOLS AND ADDITIONAL INFORMATION. IDENTIFY AND COORDINATE LOCATIONS FOR ALL CEILING ELEVENTS INCLUDING LIGHTING.
 - MECHANICAL DIFFUSERS, RETURN AIR GRILLES, FIRE PROTECTION DEVICES, ACCESS PANELS, EXIT SIGNS, AUDIOMSUAL EQUIPMENT, SECURITY DEVICES, ETC. WITH ARCHITECT BEFORE INSTALLATION.
 - NOTIFY ARCHITECT OF ANY REQUIREMENTS FOR ACCESS PANELS NOT SHOWN ON DOCUMENTS 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 ELEMENTS INCLUDING BUT NOT LIMITED TO STRUCTURE, UNDERSIDE OF ROOF DECK, DUCTWORK, CONDUIT, PIPING, WIRING, AND SPRINKLER

GENERAL NOTES: FINISH

- G.C. TO REMEWAND SUBMIT TO ARCHITECT ALL MATERIALS IN FINISH LEGEND. REFER TO PLANS, RCP, ELEVATIONS, FINISH SCHEDULE, DOOR SCHEDULE, AND DETAILS FOR FINISH INFORMATION AND LOCATIONS. SAMPLES TO BE THE SPECIFIED COLOR AND FINISH FOR REMEW. SUPPLY AMNIMUM OF FIVE COPIES OF EACH ITEM ARCHITECT, GENERAL CONTRACTOR, SUE-CONTRACTOR, FIELD COPY, AND CLIENT.
- REFER TO PLANS, RCP, FINISH LEGEND, AND DETAILS TO VERIFY FINISHES. REFER TO ELEVATIONS FOR ADDITIONAL FINISH INFORMATION OR WHERE MULTIPLE FINISHES ARE INDICATED ON PLAN FOR THE SAME WALL
- THE FINISH NAVE TAKES PRECEDENT OVER THE FINISH PRODUCT NUMBER WHEN ORDERING MATERIALS. CONTACT ARCHITECT WITH DISCREPANCIES BEFORE ORDERING
- 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 DEVIOLITION OR NEW CONSTRUCTION OCCURS. NEWFINISHES 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 DAWAGE OCCURS RELATED TO THE CONSTRUCTION OF THE SCOPE OF WORK
- ALL INTERIOR FINISH AND SUNDRIES TO MEET OR EXCEED CLASS II FLAVE SPREAD, 26-75 AND SWOKE DEVELOPMENT RATING LESS THAN 450 AND ALL OTHER APPLICABLE

ALL VINYL WALL COVERING FIRE HAZARD CLASSIFICATION (ASTIV-E-84) FLAVE SPREAD 5,

- ALL IMPACT-RESISTANT PANELS TO BE CLASS 1 COMPONENTS. TESTED IN ACCORDANCE WITH UL-723 (ASTIV-E849A) FLAVE SPREAD 20 OR LESS. SMOKE DEVELOPED 400 OR LESS.
- FUEL CONTRIBUTION 0, SWOKE DENSITY FACTOR 5 MAINTAIN AND PROTECT EXISTING FLOORING AND FINISHES TO REVAIN 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 ASSEMBLY RATING, TO BE FLUSHAND CONTINUOUS WITH ADJACENT FLOOR SURFACE, AS REQUIRED FOR NEWFINISH. 11. U.N.O. ALL PARTITIONS, EXTERIOR WALLS AND COLUMNS TO RECEIVE PAINT PT-1 AND
- BASE RE-1. U.N.O. ALL G.W.B. CEILINGS TO BE PAINTED PT-2. REFER TO REFLECTED CEILING PLAN FOR ADDITIONAL CEILING FINISHES.
- U.N.O. ALL HOLLOWMETAL FRAVES TO RECEIVE PAINT PT-3. REFER TO DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
- 14. 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 MINIMUMOF ONE (1) PRIMER COAT AND
- THEN TWO (2) FINISH PAINT COATS. TINT PRIMER COAT PER MANUFACTURERS SPECIFICATIONS.
- U.N.O. ALL PARTITIONS RECEIVING PAINT (PT-?), (PT-?), OR (PT-?) TO RECEIVE A LEVEL FIVE (5) FINISH PRIOR TO PRIME AND FINISH COATS TO AVOID PAINT FLASHING. ADDITIONAL FINISH COATS WILL BE REQUIRED.
- U.N.O. ALL GLASS IN DOORS AND SIDELITES TO BE GLASS GL-2. U.N.O. ALL WOOD DOORS AND TRIM TO RECEIVE STAIN ST-1. REFER TO DOOR SCHEDULE
- FOR ADDITIONAL INFORMATION. ANY WALLCOMERING WITH RECOR BACKING TO BE ADHERED WITH HEAVY-DUTY CLAY
- **ADHESIVE** CLEAN AND PREPARE FLOOR AREA TO ACCEPT NEW FLOORING, MAINTAINING REQUIRED
- FLOOR ASSEMBLY RATING. TO BE FLUSH AND CONTINUOUS WITH ADJACENT FLOOR SURFACE, AS REQUIRED FOR NEW FINISH.
- U.N.O. ALL FLOORING SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATION. VERIFY WITH ALL MANUFACTURERS AND SUPPLIERS.
- U.N.O. ALL FLOORING TRANSITIONS TO BEGIN AT CENTER LINE UNDER DOOR REFER TO TRANSITION DETAILS FOR ALL FLOORING CHANGES.
- U.N.O. ALL RESILIENT BASE TO BE RESILIENT BASE RE-1, 4" STRAIGHT AT CARPET AND 4" COME AT HARD SURFACE FLOORING.
- 24. U.N.O. ALL RESILIENT AND TILE FLOORING TO EXTEND UNDER MILLWORK.
- ALL COUNTERTOP EDGE PROFILES TO BE AN EASED EDGE.
- REFER TO INTERIOR ELEVATIONS AND MILLWORK SECTIONS FOR FINISH INFORWATION. U.N.O. ALL WALLCOVERING SHALL BE INSTALLED PER MANUFACTURERS 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 CANNOT BE RESOLVED IN A TIMELY MANNER, CONTACT THE ARCHITECT. 28. U.N.O. ALL CABINETS HARDWARE PULLS HM-1.
- U.N.O. ALL MLLWORK BACKSPLASHES TO BE 4" TALL.
- 30. U.N.O. ALL EXPOSED ENDS AND OPEN MILLWORK TO MATCH FINISH OF EXTERIOR MILLWORK.
- U.N.O. ALL MILLWORK INTERIORS TO BE WHITE MELAMINE
- PAINT ALL PLYWOOD TO MATCH NEW WALL FINISH TO WHICH IT IS ATTACHED. WOOD VENEERS TO BE APPLIED FLUSHAND SWOOTH TO SUBSTRATE WITH NO RIPPLING
- TOLERATED.
- NO GLUE UP WOOD BASE TOLERATED.
- ALL WOOD SHALL BE OF THE SAVE SPECIES AND SAVE CUT OF WOOD. ALL WOOD (VENEER, HARDWOOD) SHALL BE ORDERED AT THE SAVE TIME FROM THE SAVE LOT WITH A SAWPLE FROM THE LOT SUBMITTED TO THE ARCHITECT FOR APPROVAL. NOTIFY ARCHITECT IMMEDIATELY OF NEED TO HAVE TWO LOTS OF WOOD, IN
- WHICH CASE A SAMPLE FROM EACH LOT MUST BE SUBMITTED FOR APPROVAL 37. MILLWORK CONSTRUCTION TO COMPLY WITH LATEST EDITION OF A W.I. STANDARDS.

U.N.O. ALL PAINTED SURFACES TO RECEIVE THE FOLLOWING FINISHES:

GW.B. VERTICAL WALL SURFACES - EGGSHELL (SATIN) G.W.B. CEILINGS, SOFFITS, BULKHEADS - FLAT

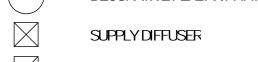
HOLLOWINETAL SURFACES - SEMI-GLOSS PAINTED WOOD SURFACES - SEMI-GLOSS

CONCRETE MASONRY UNIT - EGGSHELL

REFLECTED CEILING SYMBOLS LEGEND.

	NEW2x2 CEILING GRID AND TILE , SEE FINISH LEGENI
	NEWGYPSUMBOARD CEILING
0	2x2 FLUORESCENT LIGHT FIXTURE
0	2x4' FLUORESCENT LIGHT FIXTURE
<i>─</i>	RECESSED CAN LIGHT FIXTURE

LINEAR PENDANT FIXTURE DECORATIVE PENDANT FIXTURE



RETURN DIFFUSER

EXITSIGN

GENERAL NOTES: ARCHITECTURAL

- THE CONTRACTOR SHALL VISIT 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
- WITHTHEWORK THE CONTRACTOR SHALL THOROUGHLY REMEWTHE CONTRACT DOCUMENTS PRIOR TO CONSTRUCTION AND AS AMENDMENTS MAY BE MADE AS CONSTRUCTION PROCEEDS, AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES, CONFLICTS, INCONSISTENCIES, ERRORS OR OMSSIONS THAT MAY BE DISCOMERED. IN SUCH CASES THE CONTRACTOR IS TO OBTAIN CLARIFICATION OR VERIFICATION OF INTENT PRIOR TO PROCEEDING WITH THE WORK
- THE WORK IS TO BE PERFORVED IN CONFORMANCE WITH APPLICABLE WRITTEN CODES, ORDINANCES, LAWS, RULES, REGULATIONS AND REQUIREMENTS OF AUTHORITIES HAWNG JURISDICTION. IF THE CONTRACTOR PERFORMS OR PROCEEDS IN A MANNER CONTRARY TO ANY SUCH REQUIREMENTS THE CONTRACTOR ASSUMES FULL RESPONSIBILITY THEREFORE AND SHALL BEAR COSTS RESULTING FROM NONCOMPLIANCE OR MOLATION, INCLUDING COSTS ASSOCIATED WITH REPAIRING, REPLACING OR OTHERWISE BRINGING THE WORK INTO CONFORMANCE. THE CONTRACTOR IS TO BRING TO THE ARCHITECT'S ATTENTION ANY CONDITIONS REPRESENTED IN TH 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 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
- WHERE WORK OR EQUIPMENT IS INDICATED AS 'NOT IN CONTRACT (NIC)' IN THE DOCUMENTS, SUCH WORK OR EQUIPMENT 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 ITEVS SUPPORTED. WHERE WOOD BLOCKING IS USED IT IS TO BE FIRE RETARDANT TREATED. WHERE METAL IS USED PROVIDE MIN 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 NO VISIBLE 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 COME INTO CONTACT WITH EACH OTHER, WHERE METALS COME INTO CONTACT WITH WOOD, CONCRETE ORMASONRY, WHERE RUNOFF FROMA METAL SURFACE FLOWS OVER A DISSIMLAR METAL, OR WHERE NON-PASSIVE METAL FASTENERS PENETRATE DISSIMLAR METALS, BREAK THE CONTACT BETWEEN MATERIALS WITH A HEAVY WATERPROOF PAPER OR FELT, A HEAVY COAT OF BITUMNOUS COATING OR AN ELASTOMERIC FILMUNLESS OTHER SEPARATOR IS INDICATED IN THE CONTRACT DOCUMENTS.
- STEEL EXPOSED TO WATER AND/OR EXTERIOR WEATHER CONDITIONS IS TO BE GALVANIZED UNLESS INDICATED OTHERWISE. WHERE CUTTING, FASTENING, ANCHORAGE OR CONNECTION CONDITIONS RESULT IN BREAKS IN THE GALVANIZING COATING, RESTORE COATING OR APPLY ADDITIONAL
- COMPATIBLE PROTECTIVE COATING TO MAINTAIN INTEGRITY OF PROTECTION SHEET METAL FLASHING SHALL BE OF APPROPRIATE THICKNESS AND SIZES, AND DETAILED, CONFIGURED AND INSTALLED SO AS TO ALLOW FOR ACCEPTABLE THERWAL MOVEMENTS WITHOUT VISIBLE DISTORTIONS, LEAKS OR FAILURES OF THE FLASHING SYSTEMS ABILITY TO PERFORMAS REQUIRED BY THE CONTRACT DOCUMENTS.
- 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
- 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. DIVENSIONS GOVERN. LARGE SCALE DETAILS GOVERN OVER SWALL
- PARTITIONS SHALL BE DIVENSIONED TO FACE OF PARTITION UNLESS NOTED OTHERWISE.
- ALL DISSIMLAR METAL MATERIALS SHALL BE ISOLATED WITH A NON-METALLIC SEPARATOR. ALL MATERIALS USED IN FIRE-RATED ASSEMBLIES SHALL BE APPROVED BY U.L. OTHER RECOGNIZED
- STANDARD FOR USE IN SUCH ASSEVBLIES. 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 KNOWLEDGE, OR EFFORT. THE OPERATION OF THE SECURITY DEVICES SHALL BE COMPLIANT WITH
- SIGNAGE INDICATING ACCESSIBLE ENTRANCES, RESTROOMS, SIGNS PLAINLY VISIBLE STATING "ELECTRICAL ROOM" AND ANY OTHER INTERIOR SIGNAGE REQUIRED BY CODE SHALL BE PROMDED. BY OWNER AND INSTALLED BY CONTRACTOR.
- ALL EXITS SERVING A REQUIRED ACCESSIBLE SPACE, BUT NOT PROMDING AN ACCESSIBLE MEANS OF EGRESS, SHALL PROMDE SIGNS INDICATING THE LOCATION OF ACCESSIBLE MEANS OF EGRESS. SIGNS WILL BE BY OWNER AND INSTALLED BY CONTRACTOR
- SEE SHEET A-902 FOR PARTITION TYPES. FOR ALL DOORS INTO ELECTRICAL CONTROL PANELS, HANDLES, PULLS, LATCHES, LOCKS, AND 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 MECHANISMS, PUSH-TYPE MECHANISMS, AND L-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. WHEN SLIDING DOORS ARE FULLY OPEN, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROMBOTH 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 MINIMUMOPENING 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.

EACH GLAZING UNIT SHALL BEAR THE MANUFACTURER'S LABEL DESIGNATING THE TYPE AND

- 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.
- 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
- ALL BUILDING ENTRANCES / EXITS ARE ACCESSIBLE. ACCESSIBLE DOORS SHALL HAVE A LANDING ON BOTH SIDES. LANDINGS SHALL BE NOMORE THAN 1/2 INCH BELOWTHE TOP OF THE DOOR THRESHOLD.
- DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE ON THE LOWER 10 INCHES. FOR CORNER GUARD LOCATIONS & INFORMATION REFERENCE THE FINISH LEGEND AND FINISH
- REFER TO AWI STANDARDS FOR MILLWORK CONSTRUCTION

INSTALLED BY CONTRACTOR.

- INSTALL MOISTURE RESISTANT GYP. BOARD AT ALL WALLS, INCLUDING BUT NOT LIMITED TO
- LAVATORY LOCATIONS. CONTRACT DOCUMENTS 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.





ARCHITECT-OF-RECORD 3005 LOCUST ST. ST. LOUS, MO63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAL: SOLARK@JEVASTL.COM

DESIGNARCHITECT SAPP DESIGNASSOCIATES APOHTECTS 3750 SOUTH FREMONT SPRINGFIELD, MO 65804 T (417) 877-9600 = (417) 877-9696 CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHTECTS.COM

CCCCHRAN 530AE INDEPENDENCE DRIVE UNON, MO 63084 CONTACT: DAVE VAN LEER T (636) 584-0540 F (636) 584-0512 E-MAIL: DVANLEER@0000-RAN.COM

STRUCTURAL ALPERAUDI, INC. 1804 BORWAN GROLE DRIVE ST. LOUS, MO63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE EI-RETT E-MAL: STEVE EI-PETT@ALPERAUDI.COM

MECHANICAL, ELECTRICAL, PLUMBING BRICPARTINERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BOOLEVAN@BRICPARTINERSHP.COM

ARCHITECT OF RECORD:

No. Date

JOHN EDWARD MUELLER MOARCHITECTURAL LICENSE A2010039554

MO CERTIFICATE OF AUTHORITY A2014008380

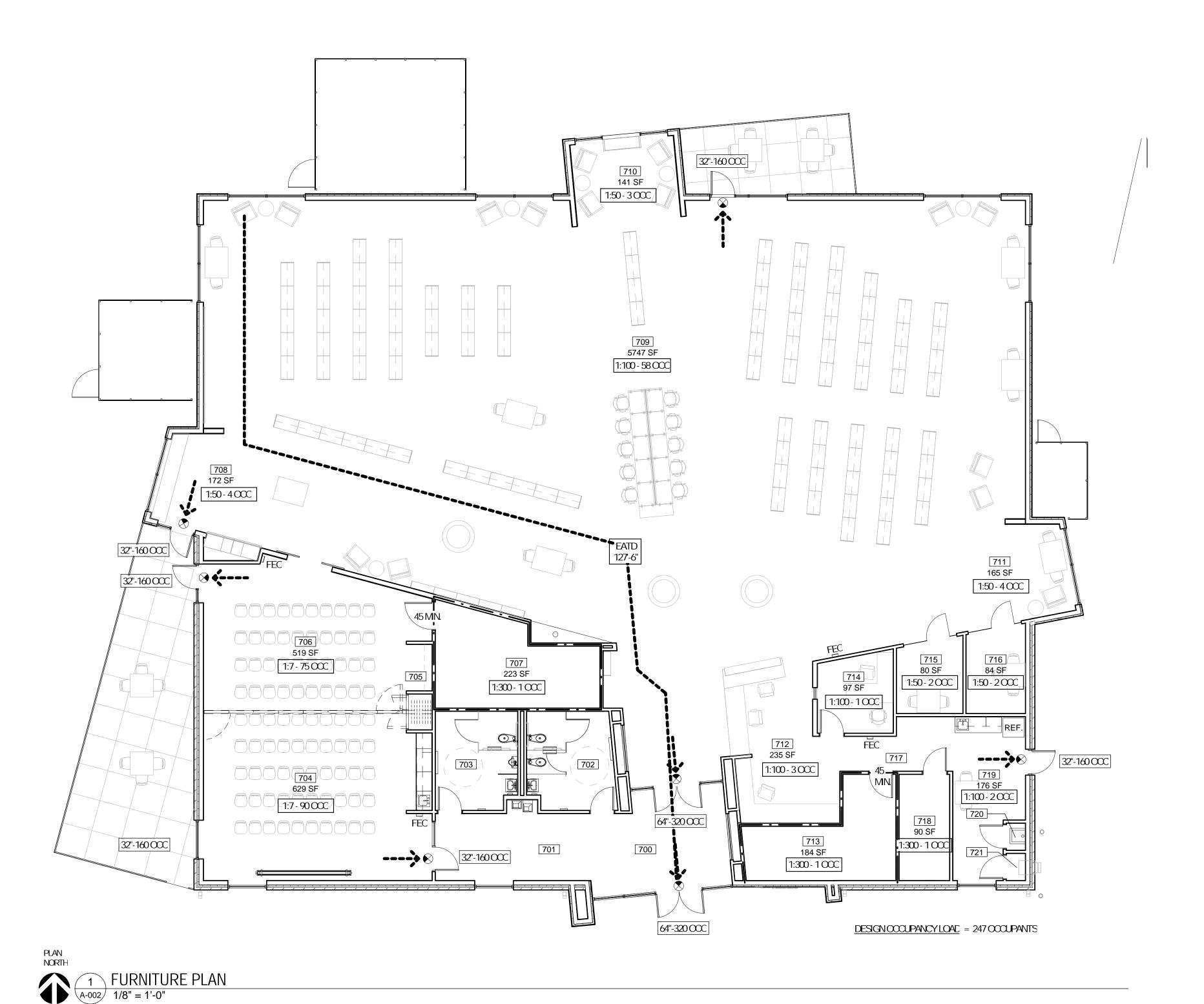
Description

04/14/17	ISSUED FOR BID

DRAWNBY: SC/SH

PROJECT NUMBER: 16-1161.07

SHEET TITLE: SYMBOLS AND ABBREVIATIONS



CODE INFORMATION

CITY OF SULLIVAN, MO (FRANKLIN AND CRAWFORD COUNTY) <u>AUTHORITIES HAMNGJURISDICTION:</u>

SULLIVAN FIRE PROTECTION DISTRICT

INTERNATIONAL FIRE CODE (IFC) 2009 EDITION,

INTERNATIONAL MECHANICAL CODE (IMC) 2009 EDITION

BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC) 2009 EDITION

ACCESSIBILITY: AVERICANS WITH DISABILITIES ACT

ICC/ANSI A117.1, REFERENCED BY BUILDING CODE

ELECTRICAL: NATIONAL ELECTRICAL CODE 2008 EDITION

<u>PLUMBING:</u> INTERNATIONAL PLUMBING CODE (IPC) 2009 EDITION

EVERGY: INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2009 EDITION.

INTERNATIONAL FUEL GAS CODE 2009 EDITION

BUILDING INFORMATION

PATINGS <u>USE GROUPS</u> ELEMENT: COLUMN <u>RATING:</u> 0 HOUR MODERATE HAZARD STORAGE (ACCESSORY USE, SEE LIFE CORRIDOR OMNUTE

SAFETY PLAN, SHEET A-002)

FIRE PREVENTION:

MECHANICAL:

NON-SPRINKLERED, NOT PROTECTED

REFER TO CISCA GUIDELINES FOR REQUIREMENTS

FLOOR ACTUAL GSF DESIGN OCCUPANCY: FIRST FLOOR 9,988 SF 247 OCCUPANTS

ALLOWABLE HEIGHT AND AREA: USE GROUP A-3 IS MOST RESTRICTIVE USE

ALLOWABLE HEIGHT AND AREA, IBC TABLE 503 - 2 STORIES AND 9,500 SF.

PER SECTION 506.2 FRONTAGE INCREASE; If = 25% INCREASE OR 2,375 SF - TOTAL ALLOWABLE AREA OF 11,875 SF (F=097'-0", P=394'-0", W=30'-0")

FIRE RESISTANCE RATINGS-HOURS:

BUILDING ELEMENT TYPE TYPE IIB

STRUCTURAL FRAVE, COLUMNS, GRDERS & TRUSSES BEARING WALLS - EXTERIOR/INTERIOR NON-BEARING WALLS & PARTITIONS-INTERIOR FLOOR CONSTRUCTION INCLUDING BEAVIS & JOIST ROOF CONSTRUCTION INCLUDING BEAVIS & JOIST

THE EXIT CAPACITY FOR EACH FLOOR AREA MUST BE SUFFICIENT FOR THE OCCUPANT LOAD AS CALCULATED. EXIT CAPACITY IS DETERMINED BY DIVIDING THE CLEAR WIDTH OF EACH EXIT COMPONENT BY THE APPROPRIATE FACTOR NOTED BELOW

DOORS/AISLES - 0.20" PER OCCUPANT

IBC OCCUPANCY CALCULATIONS:

AREA PER OCCUPANT OCCUPANCY TYPE:

GENERAL LIBRARY STACK AREA 100 SF READING ROOMS 50 SF MEETING ROOM(S) (CONCENTRATED CHAIRS ONLY) 7SF

SECTION 903 AUTOMATIC SPRINKLER SYSTEM

903.2.1.3 GROUP A-3, NONE OF THE (3) CONDITIONS PERTAIN TO THE PROJECT THEREFORE AN AUTOVATIC SPRINKLER SYSTEMIS NOT REQUIRED.

SECTION 903.2.1.3 GROUP A-3 AN AUTOWATIC SPRINKLER SYSTEMSHALL BE PROMDED FOR GROUP A-3 OCCUPANCIES WHERE ONE OF THE FOLLOWING CONDITIONS EXISTS:

1. THE FIRE AREA EXCEEDS 12,000 SQUARE FEET (1115 M2); 2. THE FIRE AREA HAS AN OCCUPANT LOAD OF 300 OR MORE;

3. THE FIRE AREA IS LOCATED ON A FLOOR OTHER THAN A LEVEL OF EXIT DISCHARGE SERMING SUCH OCCUPANCIES.

SECTION 1016.1 EXIT ACCESS TRAVEL DISTANCE:

FOR NON-SPRINKLERED ASSEMBLY USE GROUP THE MAXIMUM EXIT ACCESS TRAVEL DISTANCE IS 200'.

1-HOUR RATED WALL PARTITION

SYMBOL LEGEND

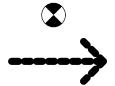
SEM-RECESSED FIRE **EXTINGUISHER CABINET** EGRESS PATH

XOCC= AREA PER OCCUPANCY LOAD X:X-XCCC

XX" - XCCC XX=CLEAR OPENING IN INCHES AND EGRESS CAPACITY



EXIT ACCESS TRAVEL DISTANCE, MAX. CONDITION/WORST CASE INDICATED



EATD

EXITSIGN

DIRECTION/LOCATION OF EGRESS

NUMBER	NAME		
0	VESTIBULE		
1	CORRIDOR		
2	WOMENS		
3	MENS		
4	MEETING ROOM A		
5	COATS		
6	MEETING ROOM B		
7	STORAGE		
8	CHILDRENS AREA		
9	CIRCULATION		
0	ADULT AREA		
1	TEEN AREA		
2	WORK ROOM		
3	STORAGE		
4	OFFICE		
5	STUDY		
6	STUDY		
7	CORRIDOR		
8	MECH/ ELEC		
9	BREAK ROOM		
0	JANITORS CLOSET		
1	DROP		

ROOM SCHEDULE



read, explore, grow

ARCHITECT-OF-RECORD

3005 LOCUST ST. ST. LOUS, MO63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAIL: SOLARK@JEMASTL.COM <u>DESIGNAPOHTECT</u>

OMNUTE

0 HOUR

0 HOUR

DOOR

FLOOR

STORAGE

SAPP DESIGNASSOCIATES ARCHITECTS 3750 SOUTH FREMONT SPRINGFIELD, MO 65804 T (417) 877-9600 F (417) 877-9696 CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHTECTS.COM

CCCCHRAN 530AE INDEPENDENCE DRIVE UNON, MD 63084 CONTACT: DAVE VAN LEER T (636) 584-0540 F (636) 584-0512 E-MAIL: DVANLEER@CCCC-RAN.CCCM

STRUCTURAL ALPERAUDI, INC. 1804 BORMAN GROLE DRIVE ST. LOUS, MO63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE EL RETT

MECHANICAL, ELECTRICAL, PLUMBING BRICPARTNERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BOOLEMAN@BRICPARTNERSHP.COM

E-MAIL: STEVE.B-RETT@ALPERAUDI.COM

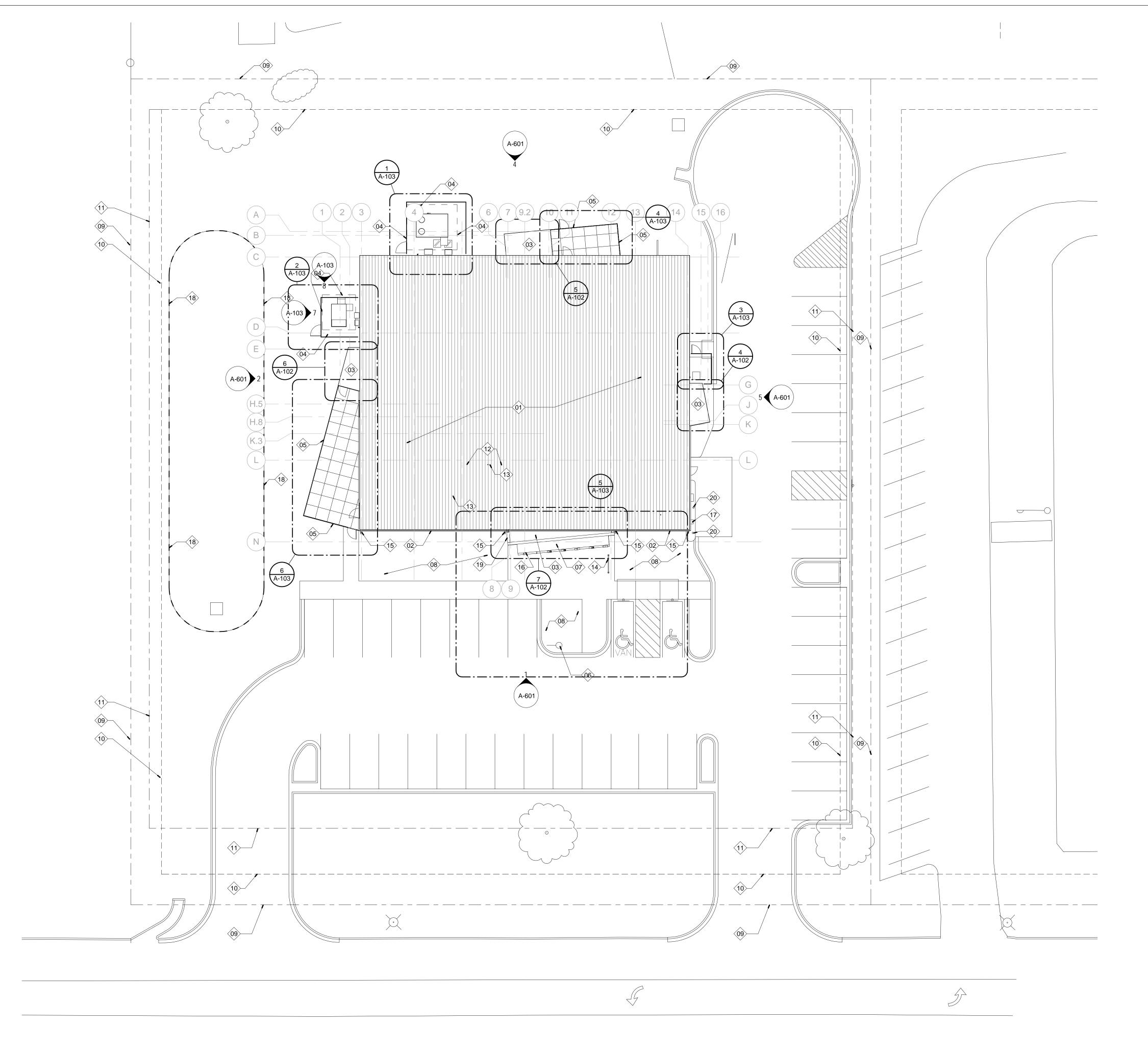
ARCHITECT OF RECORD:

JOHN EDWARD MUELLER MOAPOHTECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

No.	Date	Description
	04/14/17	ISSUED FOR BID
DRAW	NBY: SC	/SH

PROJECT NUMBER: 16-1161.07

SHEETTITLE: LIFE SAFETY PLAN



	KEYED NOTES - SITE PLAN			
Keynote Number	Description			
01	STANDING SEAM MTL. ROOF SYSTEM, REFER TO SPECS.			
02	PRE-FINISHED GUTTER, REFER TO SPECS.			
03	ROOFING MEMBRANE, REFER TO SPECS.			
04	MECHANICAL SCREEN FENCING - REFER TO SPECIFICATIONS AND DETAILS			
05	PRE-FINISHED ALUM. FENCE - REFER TO SPECIFICATIONS			
06	SINGLE FLAGPOLE, REFER TO SPECS.			
07	PRE-FINISHED COMPOSITE METAL PANEL CANOPY, REFER TO SPECS.			
08	PLANTING AREA, REFER TO LANDSCAPE PLAN.			
09	PROPERTY LINE			
10	EASEMENT			
11	BUILDING SETBACK LINE			
12	EXHAUST FAN PIPING PENETRATION, SEE ROOF DETAIL.			
13	PLUMBING EXHAUST PIPING PENETRATION, SEE ROOF DETAIL.			
14	SURFACE MOUNTED BIKE RACK, REFER TO SPECS.			
15	DOWN SPOUT LOCATION - REFER TO CIVIL DWGS. FOR TIE-IN INFORMATION.			
16	BUILDING SIGNAGE - REFER TO SPECS. FOR MORE INFORMATION			
17	THROUGH WALL BOOK DROP UNIT, REFER TO SPECS.			
18	LINE OF DETENTION BASIN, REFER TO CIVIL DAWINGS.			
19	WALL SCUPPER, COLLECTOR HEAD AND DOWN SPOUT, REFER TO ENLARGED ROOF PLAN FOR MORE INFORMATION.			

TRAFFIC BOLLARD, REFER TO CIVIL DRAWINGS.



read, explore, gro

SCENIC REGIONAL
IBRARY
SULLIVAN BRANCH
25 CUMBERLAND WAY

planning architecture interior design

ARCHITECT-OF-RECORD
JEWA
3005 LCOLIST ST.
ST. LOUIS, MO 63103
T (314) 531-7400
CONTACT: SCOTT CLARK
E-MAIL: SCLARK@JEWASTLCOM

DESIGNAROHITECT
SAPP DESIGNASSOCIATES ARCHITECTS
3750 SOUTH FREMONT
SPRINGHELD, MO 65804
T (417) 877-9600
F (417) 877-9696
CONTACT: JAWES STUFFLEBEAM
E: STUFFLEBEAM@SDAAROHITECTS.COM

CML
COOHRAN
530A E INDEPENDENCE DRIVE
UNION, MO 63084
CONTACT: DAVE VAN LEER
T (636) 584-0540
F (636) 584-0512
E-MAIL: DVAN LEER @COOHRAN COM

STRUCTURAL
ALPERAUD, INC.
1804 BORMAN OROLE DRIVE
ST. LOUS, MO 63146
T (314) 432-8600
F (314) 807-2774
CONTACT: STEVE BHRETT @ALPERAUD.COM

MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTINEPSHIP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO 63122 T (314) 725-5889 CONTACT: BRUCE COLEWAN E: BOOLEWAN@BRICPARTINEPSHIP.COM

ARCHITECT OF RECORD:

JOHNEDWARD MUELLER
MO ARCHTECTURAL LICENSE A2010039554
MO CERTIFICATE OF AUTHORITY A2014008380

No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWN BY: SC/SH

PROJECT NUMBER: 16-1161.07

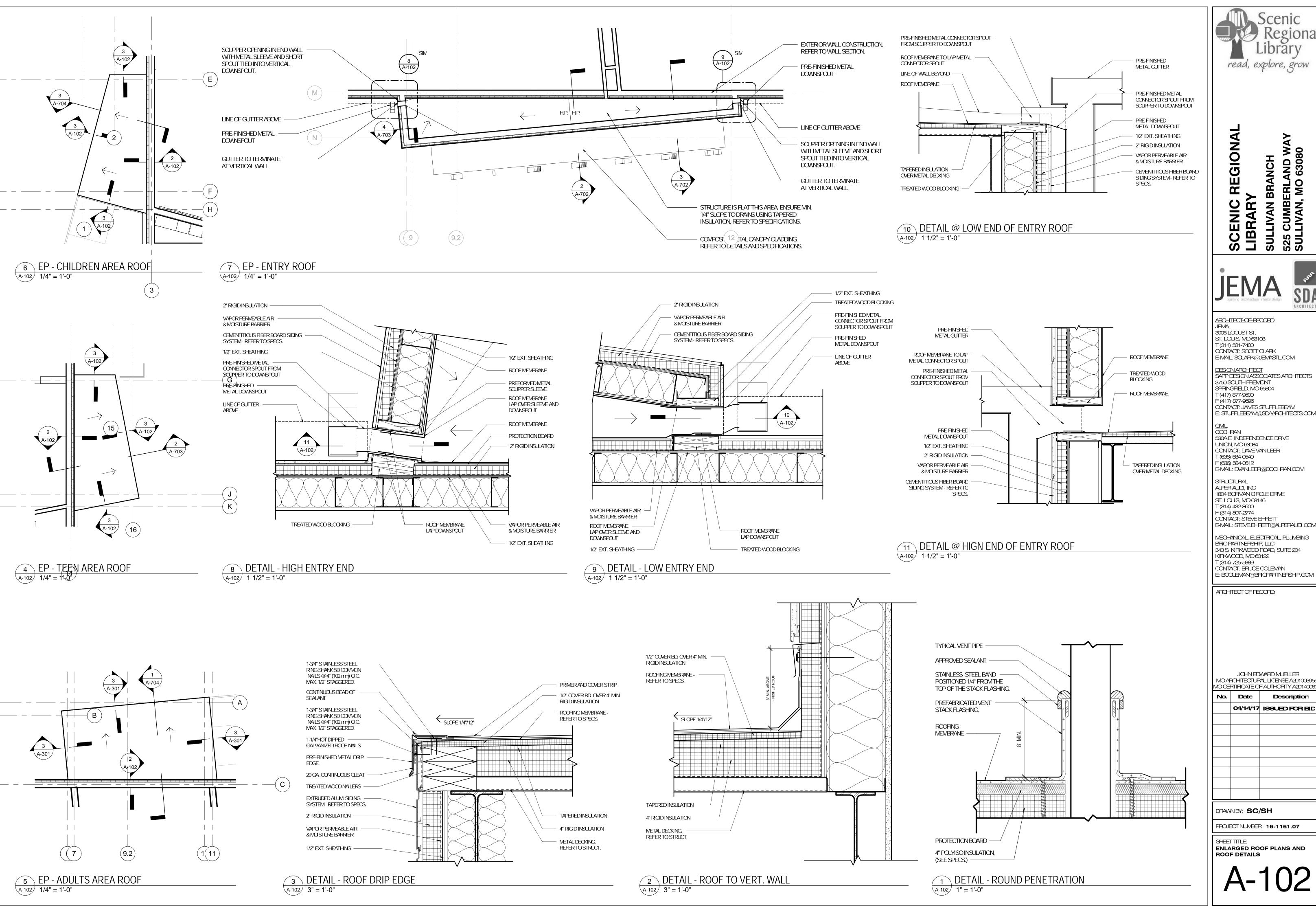
SHEETTITLE:
ARCHITECTURAL SITE PLAN

A-101

NORTH

1 SITE PLAN - ARCHITECTURAL

A-101 1/16" = 1'-0"





read, explore, grow

ARCHITECT-OF-RECORD 3005 LOCUST ST. ST. LOUS, MO63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAIL: SOLARK@JEMASTL.COM

DESIGNAROHTECT SAPP DESIGNASSOCIATES ARCHTECTS 3750 SOUTH FREMONT SPRINGFIELD, MO 65804 T (417) 877-9600 F (417) 877-9696 CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHTECTS.COM

CCCCHRAN 530A E INDEPENDENCE DRIVE UNION, MO 63084 CONTACT: DAVE VAN LEER T (636) 584-0540 F (636) 584-0512

E-MAIL: DVANLEER@0000-RAN.COM STRUCTURAL ALPERAUDI, INC. 1804 BORMAN GROLE DRIVE ST. LOUS, MO63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE EL PETT

E-MAIL: STEVE.B-RETT@ALPERAUDI.COM MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTINERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, M063122 T (314) 725-5889 CONTACT: BRUCE COLEMAN

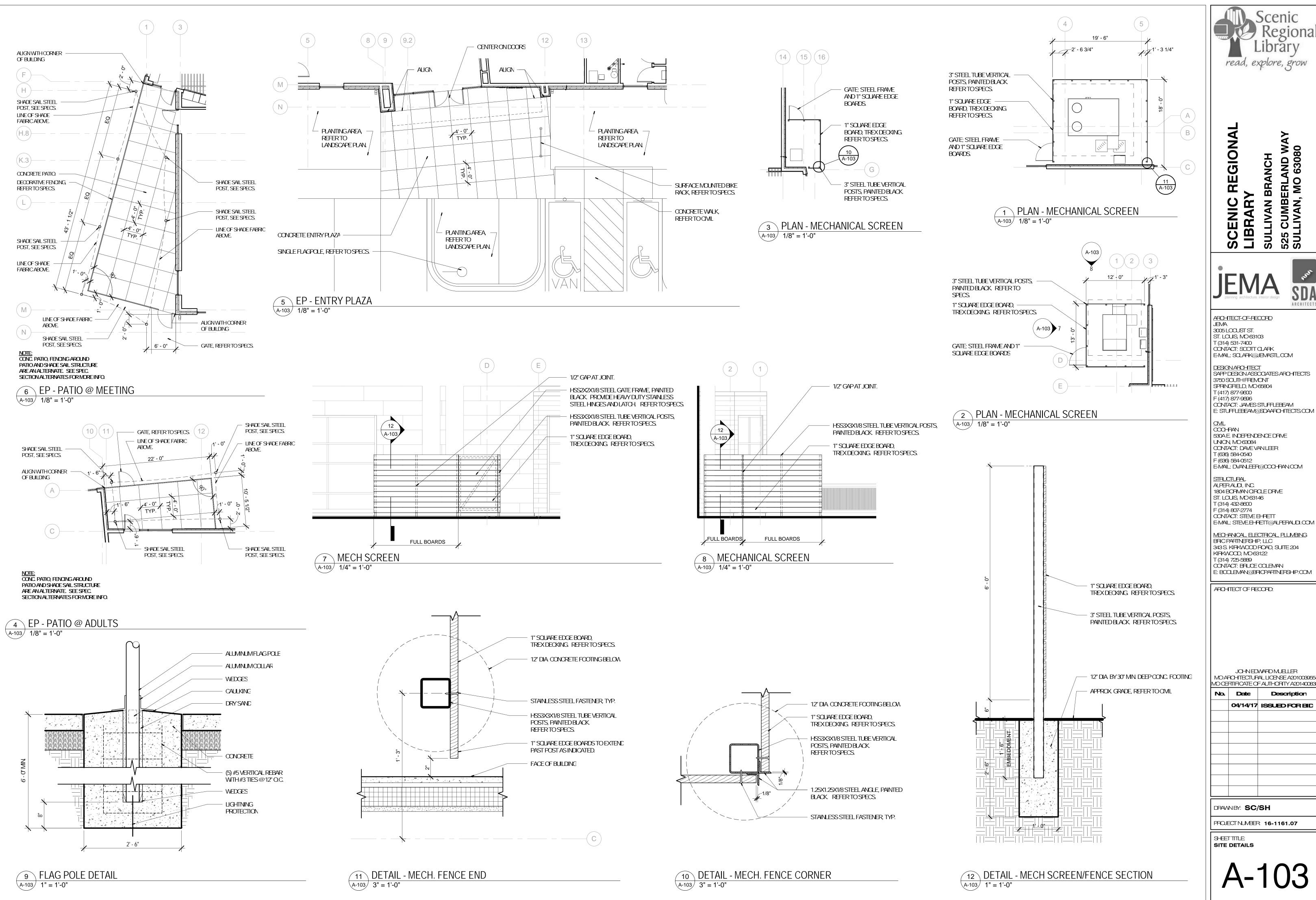
ARCHITECT OF RECORD:

JOHN EDWARD MUELLER MOAPOHTECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWNBY: SC/SH

PROJECT NUMBER: 16-1161.07



read, explore, grow

ARCHTECT-OF-RECORD CONTACT: SCOTT CLARK E-MAIL: SOLARK@JEVASTLCOM

DESIGNARCHTECT SAPP DESIGNASSOCIATES ARCHTECTS 3750 SOUTH FREMONT SPRINGFIELD, MO 65804 CONTACT: JAMES STUFFLEBEAM

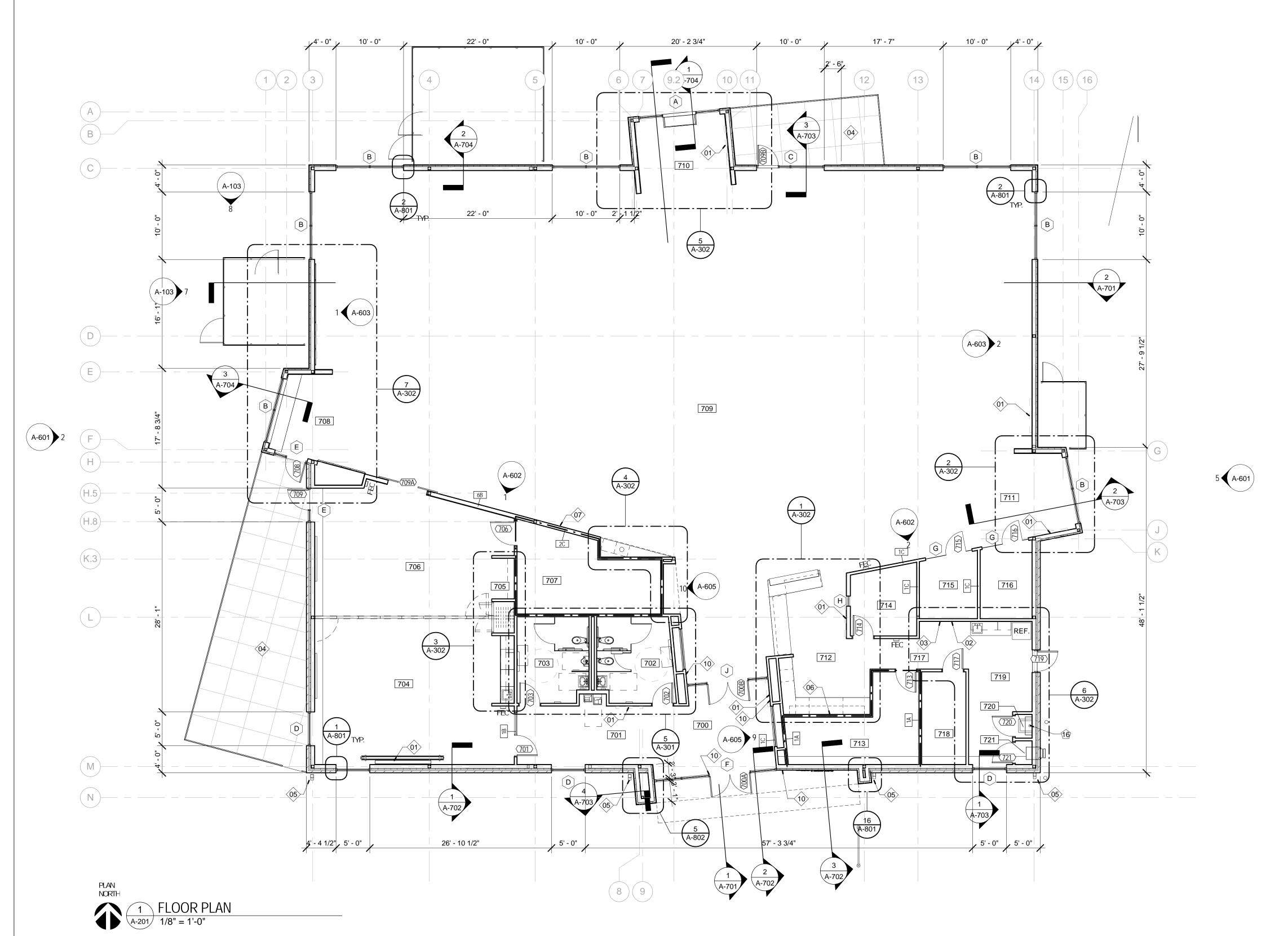
OML OCCHRAN 530AE INDEPENDENCE DRIVE CONTACT: DAVE VAN LEER

1804 BORMAN GROLE DRIVE CONTACT: STEVE EL PETT

E-MAIL: STEVE.B-RETT@ALPERAUDI.COM MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTINERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO63122

JOHN EDWARD MUELLER MOAPOHTECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

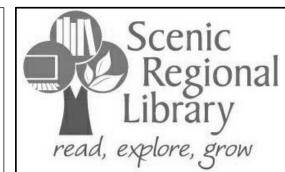
04/14/17 ISSUED FOR BID



GENERAL NOTES - FLOOR PLAN

REFER TO SHEET A-001 FOR FLOOR PLAN GENERAL NOTES

	KEYED NOTES - FLOOR PLAN		
Keynote Number	Description		
01	PROVIDE BLOCKING IN WALL FOR WALL-MOUNTED DISPLAY		
02	PROVIDE BLOCKING IN WALL FOR COAT HOOKS		
03	PROVIDE BLOCKING IN WALL FOR LOCKERS		
04	OUTDOOR CONC. PATIO, FENCING AND SHADE STRUCTURE ARE ALTERNATE OPTION - REFER TO A-001 AND SPECS. FOR MORE INFORMATION.		
05	DOWN SPOUT LOCATION - REFER TO ARCHITECTURAL SITE PLAN AND CIVIL DWGS.		
06	PROVIDE BLOCKING IN WALL FOR WALL-HUNG SHELVING		
07	PROVIDE BLOCKING IN WALL FOR BULLETIN BOARD.		
10	LOCATION OF ADA DOOR OPERATOR, REFER TO DOOR HDWR. AND ELECTRICAL DRAWINGS.		



ARCHITECT-OF-RECORD
JEMA
3005 LOOUST ST.
ST. LOUS, MO 63103
T (314) 531-7400
CONTACT: SOOTT CLARK
E-MAIL: SOLARK@JEMASTL.COM

DESIGNARCHITECT
SAPP DESIGNASSOCIATES ARCHITECTS
3750 SOUTH FREMONT
SPRINCHELD, MO 65804
T (417) 877-9600
F (417) 877-9696
CONTACT: JAMES STUFFLEBEAM
E: STUFFLEBEAM@SDAARCHITECTS.COM

QML COO-FAN 530A E INDEPENDENCE DRIVE UNION, MO 63084 CONTACT: DAVE VAN LEER T (636) 584-0540 F (636) 584-0512 E-MAIL: DVAN LEER @COO-FAN COM

STRUCTURAL ALPERAUD, INC. 1804 BORMAN GROLE DRIVE ST. LOUS, MO 63146 T (314) 432-8600 F (314) 807-2774

E-MAL: STEVE.B-PETT@ALPERAUDI.COM MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTINERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO 63122 T (314) 725-5889
CONTACT: BRUCE COLEMAN
E: BCOLEMAN@BRICPARTINERSHP.COM

ARCHITECT OF RECORD:

CONTACT: STEVE EL-RETT

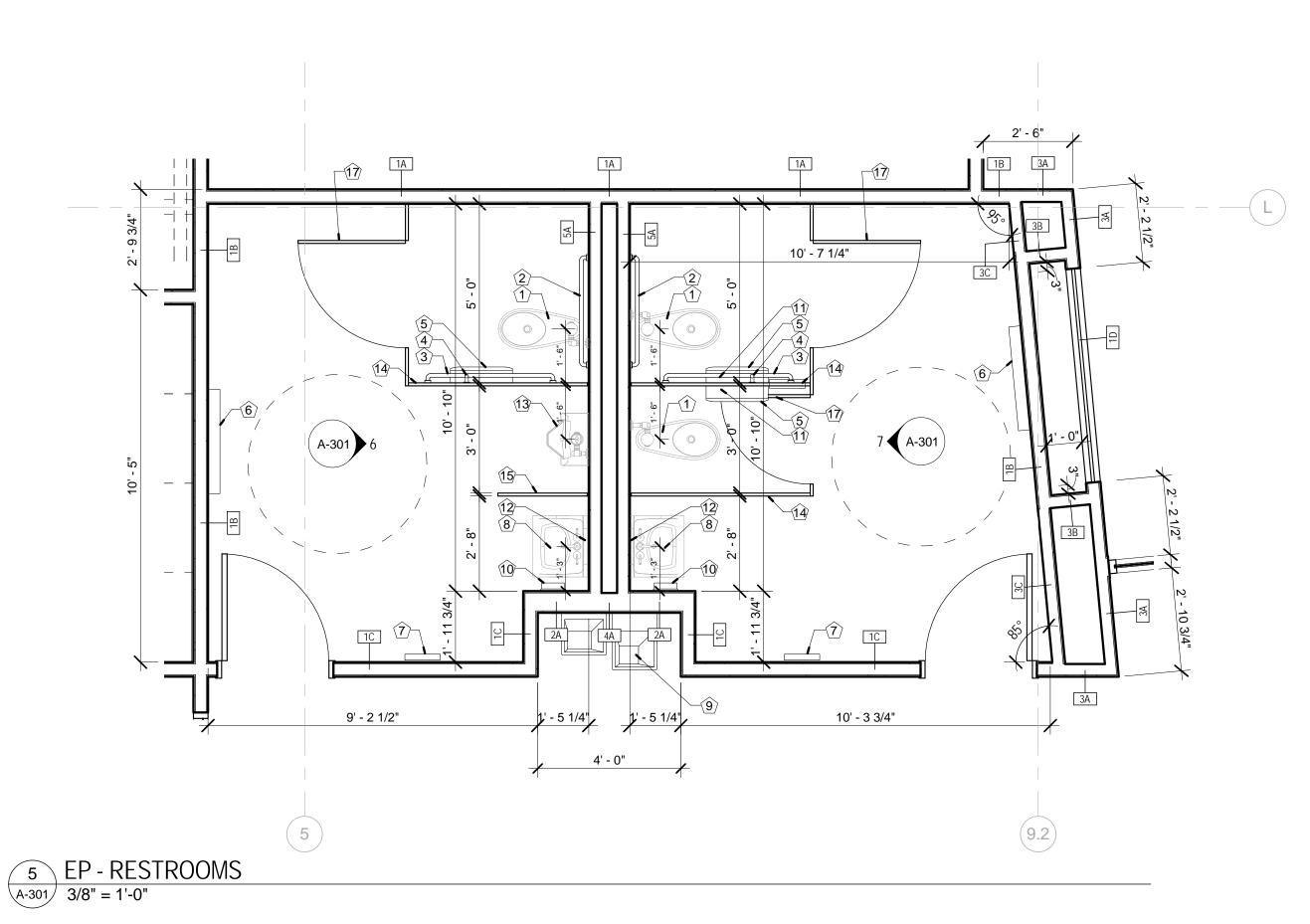
JOHNEDWARDM FILER

ROOM SCHEDULE			
NUMBER NAME			
00	VESTIBULE		
01	CORRIDOR		
02	WOMENS		
03	MENS		
04	4 MEETING ROOM A		
05	COATS		
06	MEETING ROOM B		
07	STORAGE		
08	CHILDRENS AREA		
)9	CIRCULATION		
10	ADULT AREA		
11	TEEN AREA		
12	WORK ROOM		
13	STORAGE		
14	OFFICE		
15	STUDY		
16	STUDY		
17	CORRIDOR		
18	MECH/ ELEC		
19	BREAK ROOM		
20	JANITORS CLOSET		
21	DROP		

		JOHNEDWARD MUELLER MO ARCHTECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380		
	No.	Date	Description	
E		04/14/17	ISSUED FOR BID	
	DRAM	NBY: SC /	/SH	

PROJECT NUMBER: 16-1161.07

SHEETTITLE: FLOOR PLAN - FIRST FLOOR



C LAVATORY AND MIRROR - FACE OF PARTITION GRABBAR (OTHER LENGTH SOAP - AUTOMATIC FLUSH DISPENSER **AUTOMATIC** NAPKIN DISPOSAL (WHERE SENSORIN SENSOR (OTHER LENGTH ÒCCURS) (SND) -+SCHEDULED) TOILET PAPER DISPENSER (TPD) MOUNTED TOLET FRONT OF / FLOOR MOUNTED **ELEVATIONS** TOLET FIXTURE PLANS FLOOR MOUNTED TOLET (UNO)~ WALL MOUNTED
BLEC WATER COOLER WALL MOUNTED WALL MOUNTED URINAL **LAVATORY** (UR) (EVVC)

TOLET FIXTURE AND ACCESSORY MOUNTING LOCATIONS DIMENSIONS SHOWN APPLY TO SPECIFIC MODELS ONLY. ADJUST DIMENSIONS AS REQUIRED FOR OTHER MODELS AND/OR MANUFACTURERS.

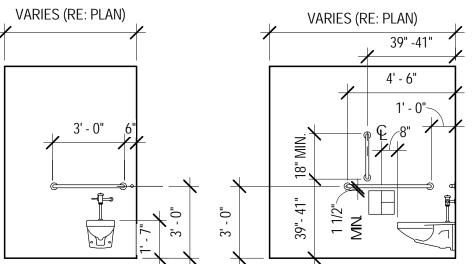
1 MOUNTING LOCATIONS - PLUMBING FIXTURES A-301 1/4" = 1'-0"

○ PLUMBING FIXTURES AND ACCESSORIES LEGEND.

ALL FIXTURES, ACCESSORIES, AND INSTALLATIONS TO BE ACCESSIBLE AND IN FULL COMPLIANCE WITH ICC/ANSI 117.1. NUMBERS IN BRACKETS REFER TO ICC/ANSI 117.1 SECTION.

- FLOOR-MOUNTED TOLLET: SEE PLUMBING SPECS.
- GRAB BAR: BOBRICK #E-5806 X 36 HORIZONTAL GRAB BAR WITH CONCEALED MOUNTING, SATIN FINISH STAINLESS STEEL
- GRAB BAR: BOBRICK #E-5806 X 42 HORIZONTAL GRAB BAR WITH CONCEALED MOUNTING, SATIN FINISH STAINLESS STEEL
- **CRAB BAR:** 18" CRAB BAR BOBRICK MODEL #B6086 VERTICAL GRAB BAR WITH CONCEALED MOUNTING, SATIN FINISH STAINLESS STEEL
- **TOILET TISSUE DISPENSER:** BOBRICK #E-2888 CLASSIC SERIES MULTI-ROLL TOLLET TISSUE DISPENSER, SURFACE-MOUNTED
- CHANGING STATION: BOBRICK #KB-200, SURFACE-MOUNTED SERIES

- RECESSED AUTOVATIC HAND DRYER: BOBRICK #E-3725, TRIMLINE SERIES, SEM-RECESSED, SATINFINISH STAINLESS STEEL
- **WALL-MOUNTED LAVATORY:** SEE PLUMBING SPECS.
- **DRINKING FOUNTAIN:** BI-LEVEL ADA COMPLIANT, SEE PLUMBING SPECS.
- 10 SOAP DISPENSER: BOBRICK #B-2111 CLASSIC SERIES SURFACE-MOUNTED, SATIN-FINISH STAINLESS STEEL
- (1) SANITARY DISPOSAL: BOBRICK #E-354 CLASSIC SERIES PARTITION-MOUNTED, SATINFINISH STAINLESS STEEL (WOMEN'S RESTROOMS ONLY)
- 12 MRROR: BOBRICK #E-165-2448, SERIES CHANNEL-FRAVED MIRROR 24"X48"
- 13 WALL-MOUNTED URINAL: SEE PLUVBING SPECS.
- 14 TOLET PARTITION: SEE SPECIFICATIONS
- (15) URINAL SCREEN: SEE SPECIFICATIONS
- 16 UTILITY SHELF WBROOMHOLDER: BOBRICK #E-224 UTILITY SHELF WITH MOP/BROOM HOLDERS AND RAG HOOKS
- ① COAT HOOKS: BOBRICK #E-2116 HEAVY-DUTY CLOTHES HOOK WITH CONCEALED MOUNTING.



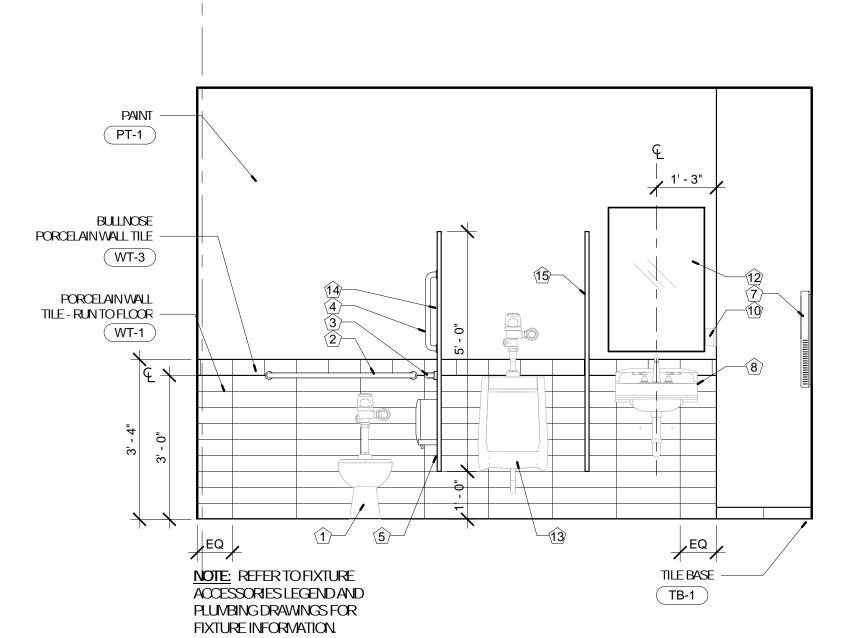
ALL FIXTURES TO COMPLY WITH AND BE INSTALLED IN COMPLIANCE WITH ALL APPLICABLE A.D.A., ANSI, AND **BUILDING CODE** REQUIREMENTS.

PROMDE BLOCKING FOR LAVATORY AND GRAB BARS. ALL DIMENSIONS SHOWN ARE

MNIMUMU.N.O. DASHED LINES INDICATE

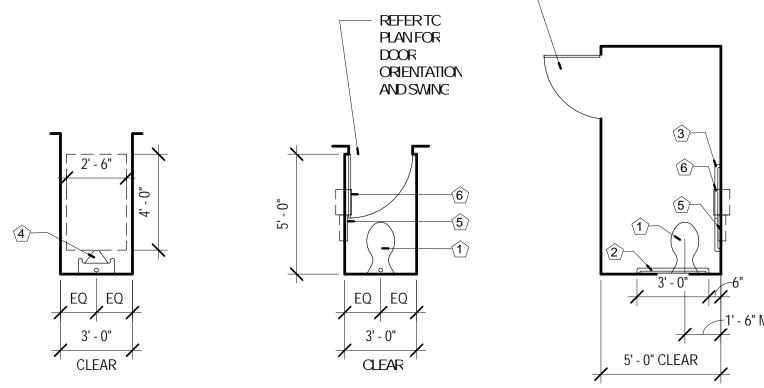
REQUIRED CLEARANCES.

MOUNTING LOCATIONS - PLUMBING FIXTURES - ADA WC



6 ELEVATION @ MEN'S RESTROOM A-301 1/2" = 1'-0"

A-301 1/4" = 1'-0"



- REFERTC

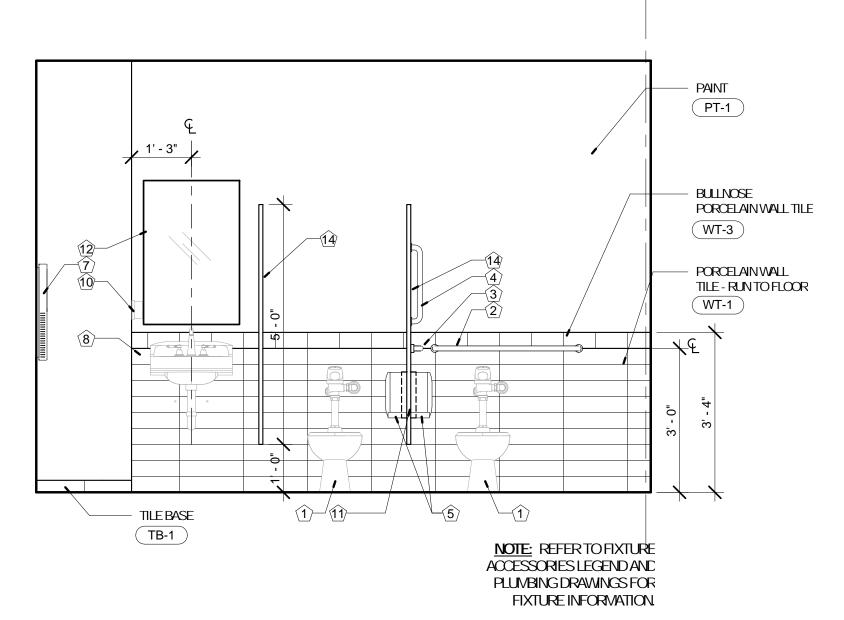
PLANFOR DOOR

ORIENTATION

(L

ANDSWING

3 ENLARGED TYP. RESTROOM PLANS A-301 1/4" = 1'-0"



7 ELEVATION @ WOMEN'S RESTROOM A-301 1/2" = 1'-0"

read, explore, grow

ARCHTECT-OF-RECORD 3005 LOOUST ST. ST. LOUS, MO63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAIL: SOLARK@JEMASTLCOM

DESIGNARCHTECT SAPP DESIGNASSOCIATES ARCHTECTS 3750 SOUTH FREMONT SPRINCFIELD, MO 65804 T (417) 877-9600 F (417) 877-9696 CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAAPOHTECTS.COM

CCCCHRAN 530A E INDEPENDENCE DRIVE UNION, MO 63084 CONTACT: DAVE VAN LEER T (636) 584-0540 F (636) 584-0512

E-MAIL: DVANLEER@0000-RAN.COM STRUCTURAL ALPERAUDI, INC. 1804 BORMAN GROLE DRIVE ST. LOUS, MO63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE EL PETT E-MAIL: STEVE.B-RETT@ALPERAUDI.COM

MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTINERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BOOLEMAN@BRICPARTINERSHP.COM

ARCHITECT OF RECORD:

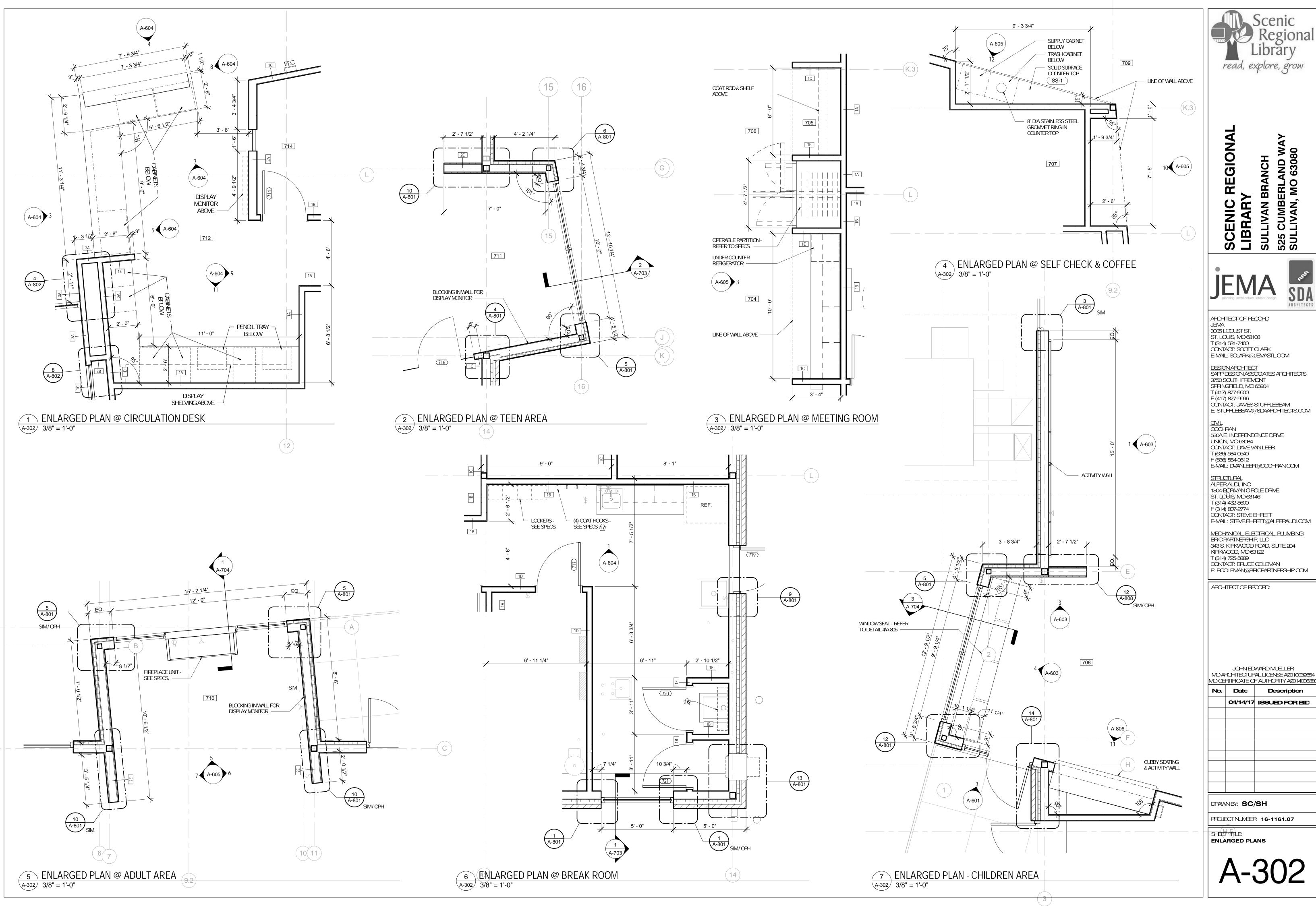
JOHN EDWARD MUELLER MOAPOHTECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWNBY: SC/SH

ENLARGED FLOOR PLANS

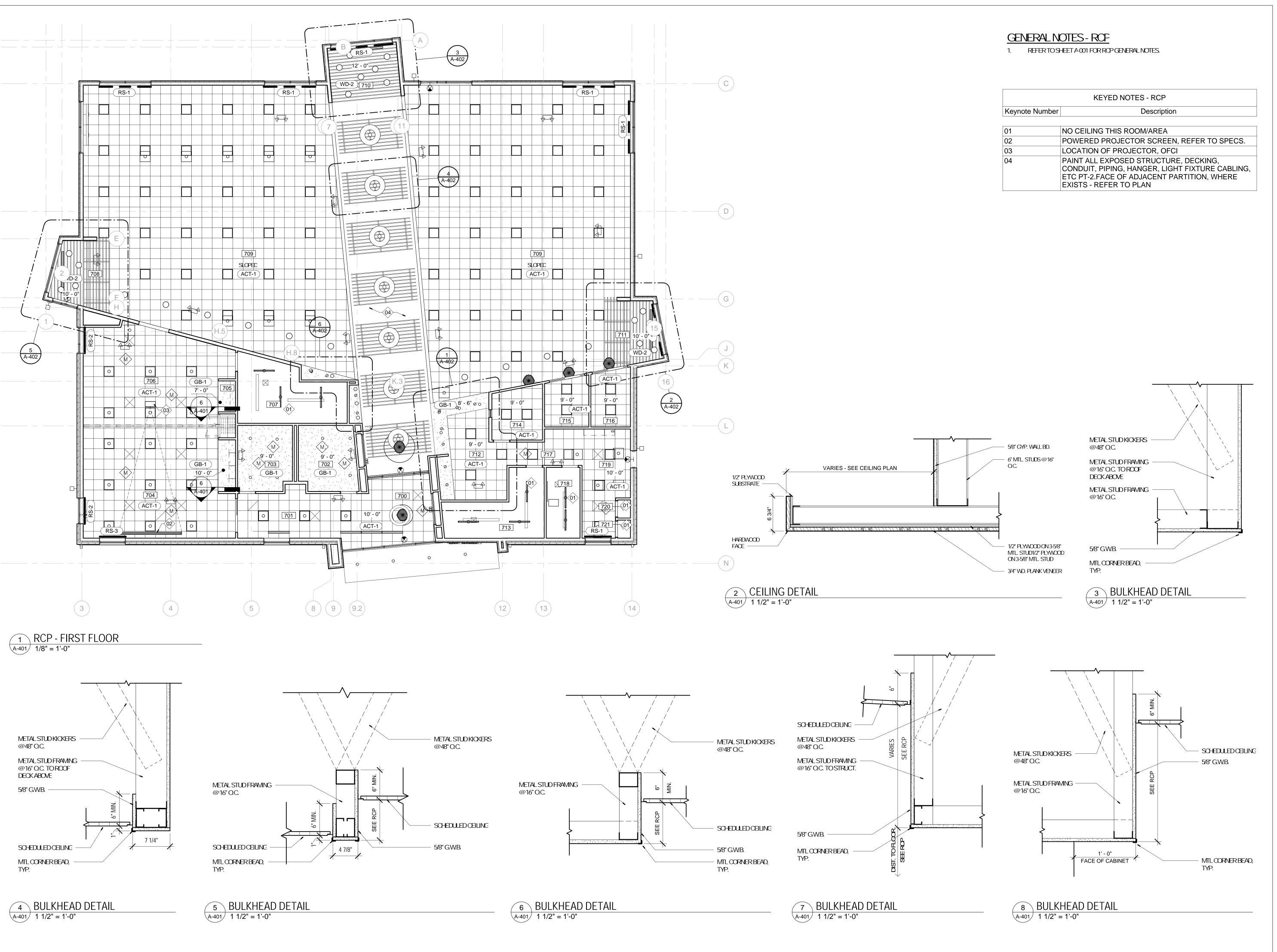
PROJECT NUMBER: 16-1161.07 SHEET TITLE:





JOHNEDWARD MUELLER
MO ARCHTECTURAL LICENSE A2010039554
MO CERTIFICATE OF AUTHORITY A2014008380

IND.	Date	Description
	04/14/17	ISSUED FOR BID
	•	



Scenic Regional Library read, explore, grow

ENIC REGIONAL
RARY
LIVAN BRANCH
CUMBERLAND WAY
LIVAN, MO 63080

EIVA SD ARCHITE

ARCHTECT-OF-RECORD
JEWA
3005 LOCUST ST.

3005 LOOUST ST. ST. LOUS, MO 63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAIL: SOLARK@JEWASTL.COM

DESIGNAROHTECT
SAPP DESIGNASSOCIATES ARCHITECTS
3750 SOUTH FREMONT
SPRINGFIELD, MO 65804
T (417) 877-9600
F (417) 877-9696
CONTACT: JAVES STUFFLEBEAM
E: STUFFLEBEAM@SDAAROHTECTS.COM

OML COCHRAN 530A E INDEPENDENCE DRIVE UNION, MO 63084 CONTACT: DAVE VAN LEER T (636) 584-0540 F (636) 584-0512

E-MAIL: DVANLEER@000-RANCOM

STRUCTURAL
ALPERAUDI, INC.
1804 BORWAN GROLE DRIVE
ST. LOUIS, MO63146
T (314) 432-8600
F (314) 807-2774
CONTACT: STEVE B-RETT

E-MAL: STEVE B-RETT@ALPERAUDI.COM

MECHANICAL, BLECTRICAL, PLUMBING
BRIC PARTINERSHIP, LLC
343 S. KIRKWOOD POAD, SUTTE 204
KIRKWOOD, MO 63122
T (314) 725-5889
CONTACT: BRUCE COLEMAN
E: BOOLEMAN@BRICPARTINERSHIP.COM

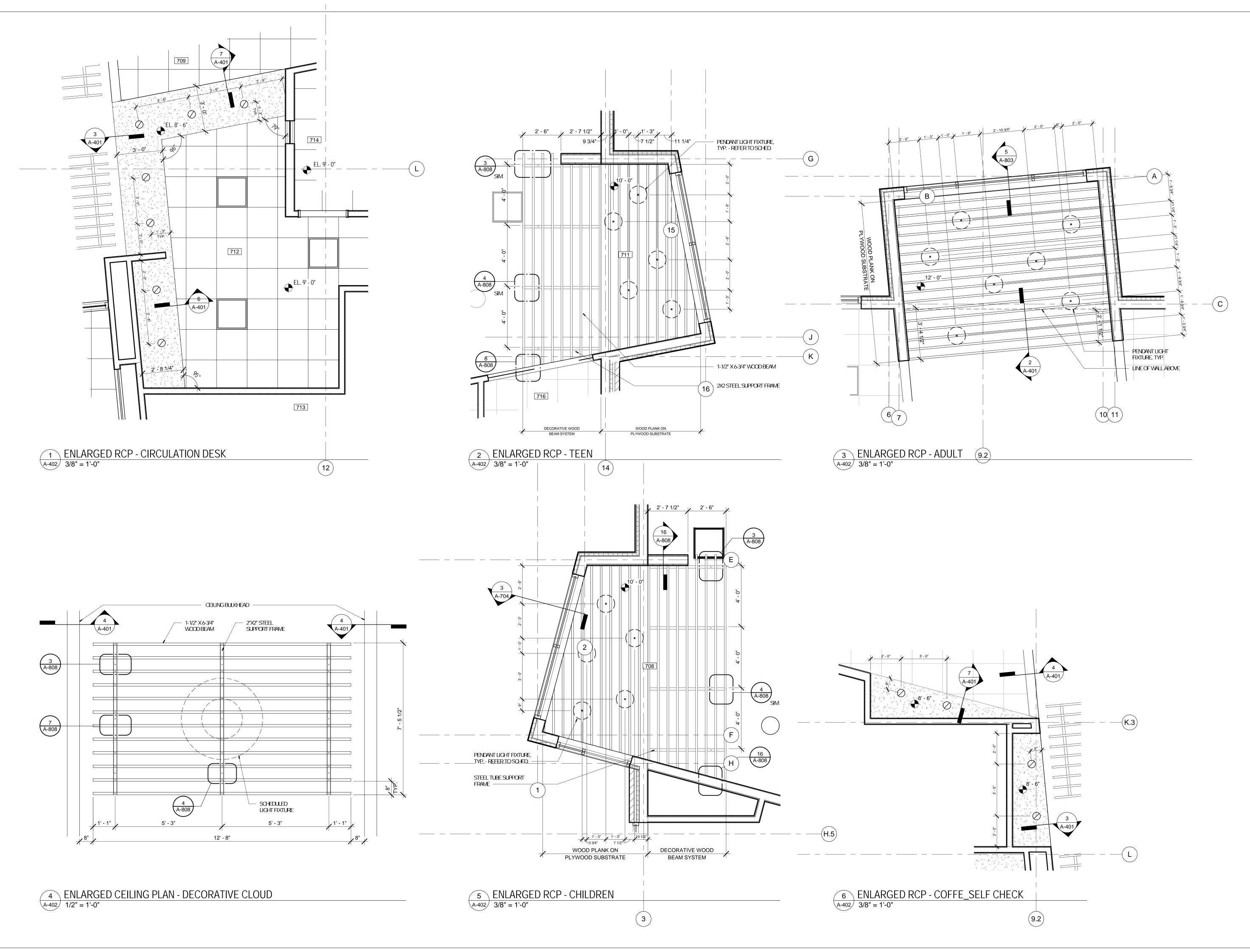
ARCHITECT OF RECORD:

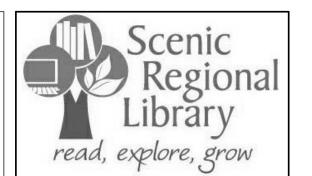
JOHNEDWARD MUELLER
MO ARCHTECTURAL LICENSE A2010039554
MO CERTIFICATE OF AUTHORITY A2014008380

No.	Date	Description
	04/14/17	ISSUED FOR BID

PROJECT NUMBER: 16-1161.07

SHEET TITLE:
REFLECTED CEILING PLAN





ARCHITECT-OF-RECORD
JEMA
3005 LOOUST ST.
ST. LOUS, MO 63103
T (314) 531-7400
CONTACT: SOOTT CLARK
E-MAIL: SOLARK@JEMASTL.COM

DESIGNARCHTECT
SAPP DESIGNASSOCIATES ARCHTECTS
3750 SOUTH FREMONT
SPRINGHELD, MO 65804 T (417) 877-9600 F (417) 877-9696 CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHTECTS.COM

CML
COOHRAN
530A E INDEPENDENCE DRIVE
UNION, MO 63084
CONTACT: DAVE VAN LEER
T (636) 584-0540

F (636) 584-0512 E-MAIL: DVANLEER@0000-FAN.COM STRUCTURAL ALPERAUD, INC. 1804 BORMAN GROLE DRIVE ST. LOUIS, MO 63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE EL-RETT

E-MAL: STEVE.EI-PETT@ALPERAUDI.COM MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTINERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO63122 T (314) 725-5889
CONTACT: BRUCE COLEMAN
E: BCOLEMAN@BRICPARTINERSHP.COM

ARCHITECT OF RECORD:

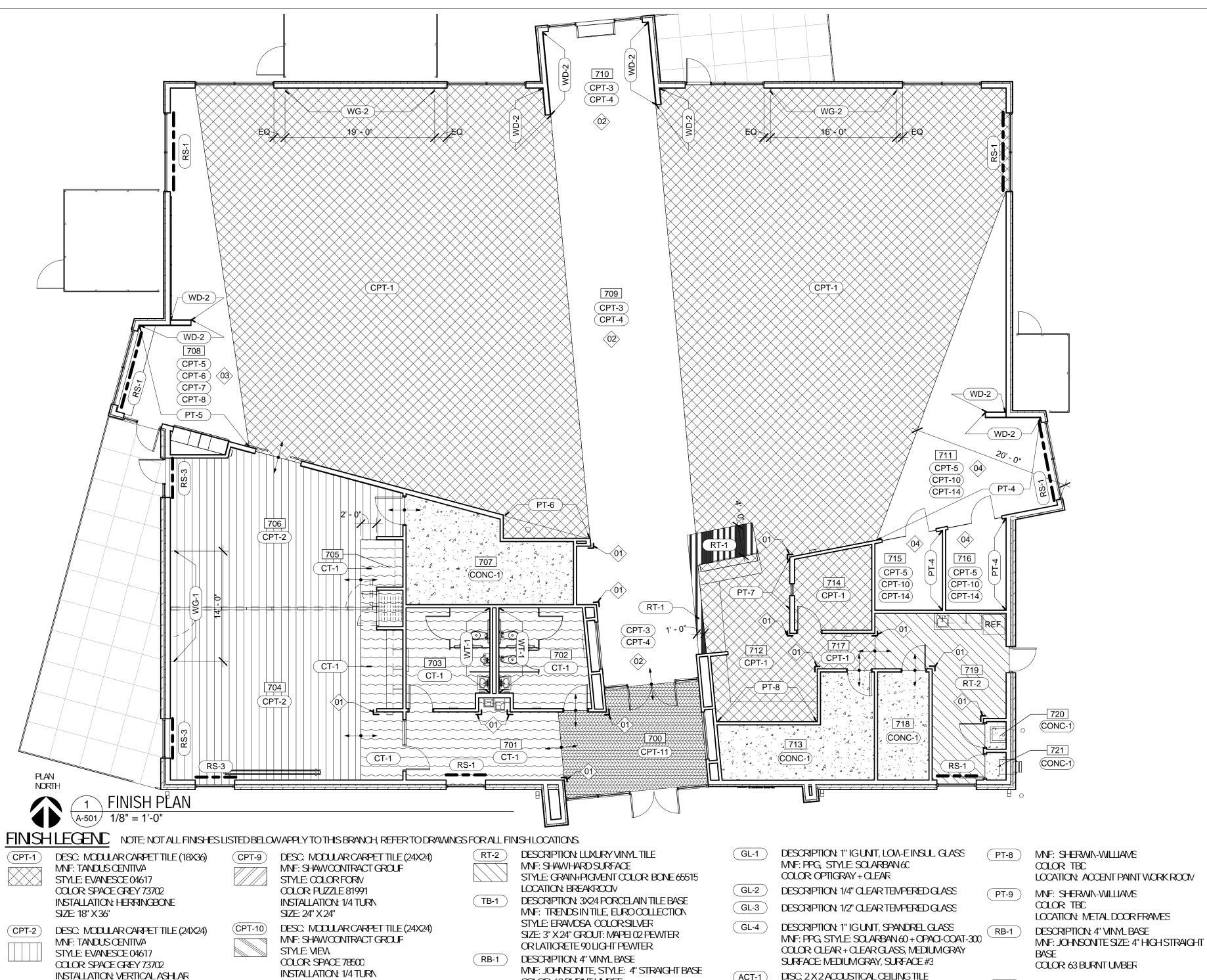
JOHN EDWARD MUELLER MOARCHTECTURAL LICENSE A2010039554 MOCERTIFICATE OF AUTHORITY A2014008380

No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWNBY: SC/SH

PROJECT NUMBER: 16-1161.07

SHEETTITLE: ENLARGED CEILING PLANS



COLOR 63 BURNT UMBER

MNF: ARC-COM, STYLE: AXIS

SERIES: SOHO SIZE: 4" X 16"

(FB-1E) DESCRIPTION: CHILDREN'S CUSHION

DESCRIPTION: WALL TILE

COLOR TAUPE GLOSSY

LIGHT PEWTER.

EDGE

(FB-1A)

DESCRIPTION: CHILDREN'S CUSHION

NUMBER AC-61346, COLOR: CHILLI #7

DESCRIPTION: CHILDREN'S CUSHION

NUMBER: AC-61345, COLOR: PUMPKIN#6

DESCRIPTION: CHILDREN'S CUSHION

NUMBER: AC-61349, COLOR: LIME#10

DESCRIPTION: CHILDREN'S CUSHION

NUMBER: AC-61340, COLOR: SEAGLASS#1

NUMBER AC-61352, COLOR OCEAN#13

MNF: ISC SURFACES ANATOLIA TILE

DESCRIPTION: 6X24 PORCELAINTILE

STYLE: ERAVOSA COLORSILVER

GROUT: MAPEL 02 PEWTER OR LATICRETE 90 LIGHT

PEWTER LOCATION: RESTROOMWET WALLS

MNF: TRENDS IN TILE, EURO COLLECTION

SIZE: 6" X 24" INSTALLATION: SEE DETAILS

DESCRIPTION: WALL TILE - BULLNOSE

MNF: ISC SURFACES ANATOLIA TILE

SERIES: SOHO SIZE: 4" X8"

COLOR TAUPE GLOSSY

GROUT: MAPEI 02 PEWTER OR LATICRETE 90

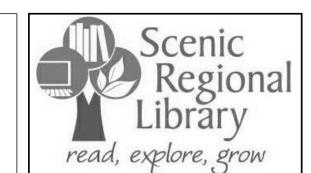
LOCATION: RESTROOMWET WALLS @ PERIMETER

GROUT: MAPEL 02 PEWTER OR LATTICRETE 90 LIGHT (PT-6) MNF: SHERWIN-WILLIAMS

GENERAL NOTES - FINISH PLAN

FINISH PLAN GENERAL NOTE

	KEYED NOTES - FINISH PLAN					
Keynote Number	Description					
01	PROVIDE CORNER GUARD THIS LOCATION, SEE SPECS					
02	COMBINATION OF CPT-3 AND CPT-4 THIS AREA.					
03	COMBINATION OF CPT-5, CPT-6, CPT-7 AND CPT-8 THIS AREA.					
04	COMBINATION OF CPT-5, CPT-10 AND CPT-14 THIS AREA					



ARCHITECT-OF-RECORD 3005 LOCUST ST. ST. LOUS, MD63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAIL: SOLARK@JEMASTL.COM

DESIGNARCHTECT SAPP DESIGNASSOCIATES ARCHITECTS 3750 SOUTH FREMONT SPRINGFIELD, MO 65804 T (417) 877-9600 F (417) 877-9696 CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHTECTS.COM

CCCCHRAN 530A E INDEPENDENCE DRIVE UNION, MO 63084 CONTACT: DAVE VAN LEER T (636) 584-0540 F (636) 584-0512 E-MAIL: DVANLEER@CCCCHRAN.CCCM

> STRUCTURAL ALPERAUDI, INC. 1804 BORMAN GROLE DRIVE ST. LOUS, MO63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE B-PETT E-MAIL: STEVE.B-RETT@ALPERAUDI.COM

MECHANICAL, ELECTRICAL, PLUMBING BRICPARTINERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD. MO63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BOOLEMAN@BRICPARTNERSHP.COM

ARCHITECT OF RECORD:

JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

ROOM SCHEDULE	No	Date	Description
NAME		04/14/17	ISSUED FOR BIL
VESTIBULE			
CORRIDOR			
WOMENS			
MENS			
MEETING ROOM A			
COATS			
MEETING ROOM B			
STORAGE			
CHILDRENS AREA			
CIRCULATION			
ADJUTADEA			

DRAWNBY: SC/SH PROJECT NUMBER: 16-1161.07

FINISH PLAN - FIRST FLOOR

700	VESTIBULE			
701	CORRIDOR	DOR		
702	WOMENS			
703	MENS			
704	MEETING ROOM A			
705	COATS			
706	MEETING ROOM B			
707	STORAGE			
708	CHILDRENS AREA			
709	CIRCULATION			
710	ADULT AREA DRAWNBY: \$			
711	TEEN AREA			
712	WORK ROOM PROJECT NU			
713	STORAGE			
714	OFFICE	SHETTITLE		
715	STUDY	FINISH PLAN		
716	STUDY			
717	CORRIDOR			
718	MECH/ ELEC			
719	BREAK ROOM			
720	JANITORS CLOSET			
721	DROP			

				ROOM FIN	ISH SCHEDUL	E - 1ST FLOC)R		
		FLOO	RING		WALLS				
NIUMBER	NAME	FLOOR FINISH	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING FINISH	REMARKS
700	VESTIBULE	CPT-11	TB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
700 701	CORRIDOR	CF1-11	TB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
701 702	WOMENS	CT-1	TB-1	PT-1	PT-1	PT-1	WT-1	GB-1	NO TB-1 ON WET WALLS, REF ELEVATIO
702 703	MENS	CT-1	TB-1	PT-1	PT-1	WT-1	PT-1	GB-1	NO TB-1 ON WET WALLS, REF ELEVATION
703 704	MEETING ROOM A	CPT-2	RB-1	N/A	PT-1	PT-1	PT-1/WG-1	ACT-1	GB-1 SOFFIT ABOVE COUNTER
705	COATS	CTP-2	RB-1	PT-1	PT-1	PT-1	N/A	ACT-1	GD-1 SOTTH ABOVE COUNTER
706	MEETING ROOM B	CPT-2	RB-1	PT-1	N/A	PT-1	PT-1/WG-1	ACT-1	GB-1 SOFFIT ABOVE COUNTER
707	STORAGE	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	N/A	GB 1 301111 ABOVE COCKTER
708	CHILDRENS AREA	CPT-5,6,7,8	RB-1	WD-2	PT-5	N/A	PT-5	WD-2/ACT-1	ACT-1 MAIN UPPER CEILING
709	CIRCULATION	CPT-1	RB-1	PT-1/WG-2	PT-1/PT-6	PT-1	PT-1	ACT-1	The First of Fertilians
710	ADULT AREA	CPT-2/CPT-3	RB-1	PT-1	N/A	WD-2	WD-2	WD-2/ACT-1	ACT-1 MAIN UPPER CEILING
711	TEEN AREA	CPT-5,10,14	RB-1	WD-2	PT-4	PT-4	N/A	WD-2/ACT-1	ACT-1 MAIN UPPER CEILING
712	WORK ROOM	CPT-1	RB-1	N/A	PT-8	PT-1/PT-7	PT-1	ACT-1	
713	STORAGE	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	N/A	
714	OFFICE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
715	STUDY	CPT-5,10,14	RB-1	PT-1	PT-1	PT-4	PT-1	ACT-1	
716	STUDY	CPT-5,10,14	RB-1	PT-1	PT-1	PT-4	PT-1	ACT-1	
717	CORRIDOR	CPT-1/RT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
718	MECH/ ELEC	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	N/A	
719	BREAK ROOM	RT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
720	JANITORS CLOSET	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	N/A	
721	DROP	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	N/A	

DESCRIPTION: WINML WALL GRAPHIC

DESCRIPTION: CUSTOM DIGITAL WALL IMAGE MNF: ARC-COV TYPE II VINYL, CUSTOMINAGE TO BE DETERMINED. SIZE: 16'-0" WIDE BY 8'-0" TALL, BOT. AT 6'-0" AFF. 19'-0" WIDE BY 8'-0" TALL, BOT. AT 6'-0" AFF REP CONTACT: AFTEN ZURLIENE, 314-465-2257

DESCRIPTION: SINGLE MANUAL ROLLER SHADE MNF: SWF CONTRACT

DESCRIPTION: SINGLE MANUAL BLACK-OUT SHADE MNF: SWF CONTRACT

DESCRIPTION: DUEL MANUAL BLACK-OUT/FABRIC SHADE MNF: SWF CONTRACT

FABRIC COLOR: PEARL GRAY, SHEARWEAVE 2360 OPENNESS: 10% OPENNESS: FULL BLACK-OUT, BLACK DUPLEX R6039

SIZE: SEE PLAN AND ELEVATION

AZURLIENE@ARC-COMCOV

FABRIC COLOR: PEARL GRAY, SHEARWEAVE 2360 OPENNESS: 10%

OPENNESS: FULL BLACK-OUT, BLACK DUPLEX R6039

	SIZE: 24" X 24"
T-7	DESC: MODULAR CARPET TILE (24X24) MNF: SHAW CONTRACT GROUP STYLE: VIEW COLOR: OVERLOOK 78436 INSTALLATION: 1/4 TURN

SIZE: 24" X 24"

SIZE: 24" X 24"

SIZE: 24" X 24"

STYLE: MEW

SIZE: 24" X 24"

COLOR GAZE 78530

STYLE: COLOR FORV

COLOR: IMAGINE 81375

INSTALLATION: 1/4 TURN

(CPT-3) DESC: MODULAR CARPET TILE (24X24)

3A STYLE: EVANESCE 04617

COLOR: OPEN OCEAN 73706

INSTALLATION: 1/4 TURN

CPT-4 DESC: MODULAR CARPET TILE (24X24)

3BSTYLE: ROCK SOLIDII

INSTALLATION: 1/4 TURN

(CPT-5) DESC: MODULAR CARPET TILE (24X24)

INSTALLATION: 1/4 TURN

(CPT-6) DESC: MODULAR CARPET TILE (24X24)

MNF: SHAWCONTRACT GROUP

MNF: SHAWCONTRACT GROUP

COLOR BLUE GRANITE 20421

MNF: TANDUS CENTIVA

MNF: TANDUS CENTIVA

SIZE: 24" X 24"

(CPT-8) DESC: MODULAR CARPETTILE (24X24) MNF: SHAWCONTRACT GROUP STYLE: MEW COLOR: GLIMPSE 78855 INSTALLATION: 1/4 TURN

SIZE: 24" X 24"

MNF: TRENDS IN TILE, EURO COLLECTION STYLE: ERAVOSA COLORSILVER SIZE: 6" X 24" INSTALLATION: 1/3 OFFSET GROUT: MAPEL 02 PEWITER OR LATICRETE 90 LIGHT PEWTER DESCRIPTION: SEALED CONCRETE (CONC-1) COLOR CLEARMATTE FINISH

SIZE: 24" X 24"

SIZE: 24" X 24"

STYLE: MEW

SIZE: 24" X 24"

STYLE: MEW

SIZE: 24" X 24"

STYLE: MEW

SIZE: 24" X 24"

COLOR EVBER81870

COLOR PLACE 78210

INSTALLATION: 1/4 TURN

INSTALLATION: 1/4 TURN

MNF: TANDUS CENTIVA

COLOR CHARCOAL 19100

INSTALLATION: MONOLITHIC

DESC: MODULAR CARPET TILE (24X24)

DESCRIPTION: 6X24 PORCELAIN TILE

MNF: SHAWCONTRACT GROUP

MNF: SHAWCONTRACT GROUP

STYLE: ABRESIVE ACTION 02578

MNF: SHAWCONTRACT GROUF

COLOR: LANDSCAPE 78675

INSTALLATION: 1/4 TURN

DESCRIPTION: LUXURY VINYL TILE MNF: SHAWHARD SURFACE STYLE: GRAIN+PIGVENT COLOR: GREEN 65326 LOCATION: CIRCULATION DESK FRONT

(ACT-1) DISC: 2X2ACOUSTICAL CEILING TILE MNF: ARIVISTRONG STYLE: ULTIMA BEVELED TEGULAR #1942

SIZE: 24" X24" COLOR: WHITE GRID9/16" DISC: 1/2" GYPSUMBOARD

COLOR: PT-2 SPECIES: REDOAK CUT: PLAIN-SLICED VENEER MATCH: SLIF-MATCHED FINISH: MATCH VT INDUSTRIES CHCCOLATE, CH15

LOCATION: ALL INTERIOR DOORS SPECIES: WHITE MAPLE CUT: PLAIN-SLICED VENEER

COLOR: TBD

COLOR: TBD

COLOR: TBD

LOCATION: ACCENT PAINT COFFEE

LOCATION: ACCENT PAINT CIRCULATION

MNF: SHERWIN-WILLIAMS

FINISH: CLEAR SATIN LOOCATION: CEILING AND WALLS PT-1 MNF: SHERWIN-WILLIAMS

FIREPLACE BASE LOCATION: GENERAL WALL COLOR (PL-5) MNF: FORMICA PT-2 MNF: SHERWIN-WILLIAMS COLOR STOP RED 839-58

(PL-1)

(PL-3)

MNF: FORMCA

FINISH; ARTISAN

MNF: LAMN-ART

COLOR 3057-VT

MNF: FORMCA

FINISH: MATTE

(PL-4) MNF: FORMICA

FINISH: VELVA-TEX

VERTICAL SURFACES.

COLOR 961-58 FOG

COLOR 5886-43 SORREL CHERRY

COFFEE, FIREPLACE VERTICAL SURFACES.

LOCATION: WORK RM/MTG. RM/BREAK RM

LOCATION: WORK RM/BREAK RM TOPS

LOCATION: CIRCULATION DESKAND

COLOR M2178 BRUSHED STAINLESS STEEL

LOCATION: CIRCULATION DESK/

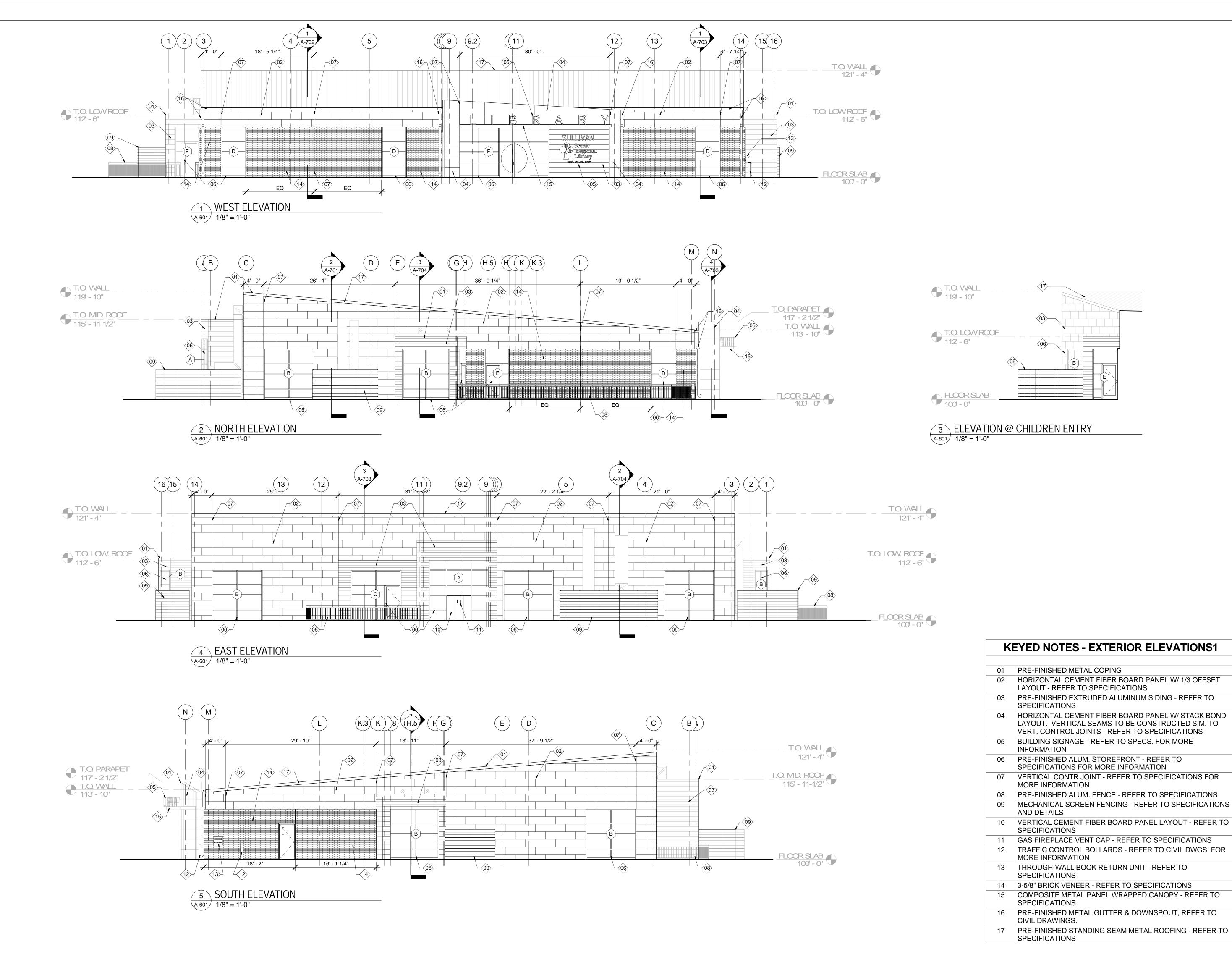
FINISH: MATTE FINISH COLOR: TBD LOCATION: GEN. GYP. BD. CLG. COLOR (PL-6) MNF: FORMCA PT-3 MNF: SHERWIN-WILLIAVS COLOR MBRANT GREEN 6901-58 FINISH: MATTE FINISH

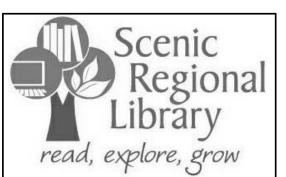
COLOR TBD LOCATION: DOOR FRAME COLOR (PL-7) MNF: FORMICA PT-4 MNF: SHERWIN-WILLIAMS COLOR: SPECTRUMBLUE 851-AN COLOR: TBD FINISH: INFINITI FINISH

LOCATION: ACCENT PAINT TEENS SS-1 MNF: AVONITE PT-5 MNF: SHERWIN-WILLIAMS COLOR NORDIC F1-9119 COLOR: TBD LOCATION: CIRCULATION COUNTER INSET, LOCATION: ACCENT PAINT CHILDRENS MTG RM/COFFEE TOPS

> MNF: DOUGMOCKETT & COMPANY, INC. STYLE: DP105/3 SERIES SQUARE PULL COLOR STAINLESS STEEL SIZE: 627/32 X 9/16 SQUARE PULL

NUMBER





REGIONAL SCENIC REGION LIBRARY SULLIVAN BRANCH 525 CUMBERLAND WA SULLIVAN, MO 63080

ARCHTECT-OF-RECORD
JEWA
3005 LOCUST ST.
ST. LOUS, MO63103
T (314) 531-7400
CONTACT: SCOTT CLARK E-MAIL: SOLARK@JEMASTL.COM

DESIGNARCHTECT
SAPP DESIGNASSOCIATES ARCHTECTS
3750 SOUTH FREMONT
SPRINGHELD, MO 65804 T (417) 877-9600 F (417) 877-9696 CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHTECTS.COM

CIMIL
COOL-RAN
530A E INDEPENDENCE DRIVE
UNION, MO 63084
CONTACT: DAVE VAN LEER
T (636) 584-0540 F (636) 584-0512

E-MAIL: DVANLEER@0000-PAN.COM STRUCTURAL ALPERAUDI, INC. 1804 BORMAN GROLE DRIVE ST. LOUS, MO63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE EL RETT E-MAIL: STEVE.B-RETT@ALPERAUDI.COM

MECHANICAL, ELECTRICAL, PLUMBING BRICPARTINERSHIP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN

E: BOOLEMAN@BRICPARTINERSHP.COM

ARCHITECT OF RECORD:

JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

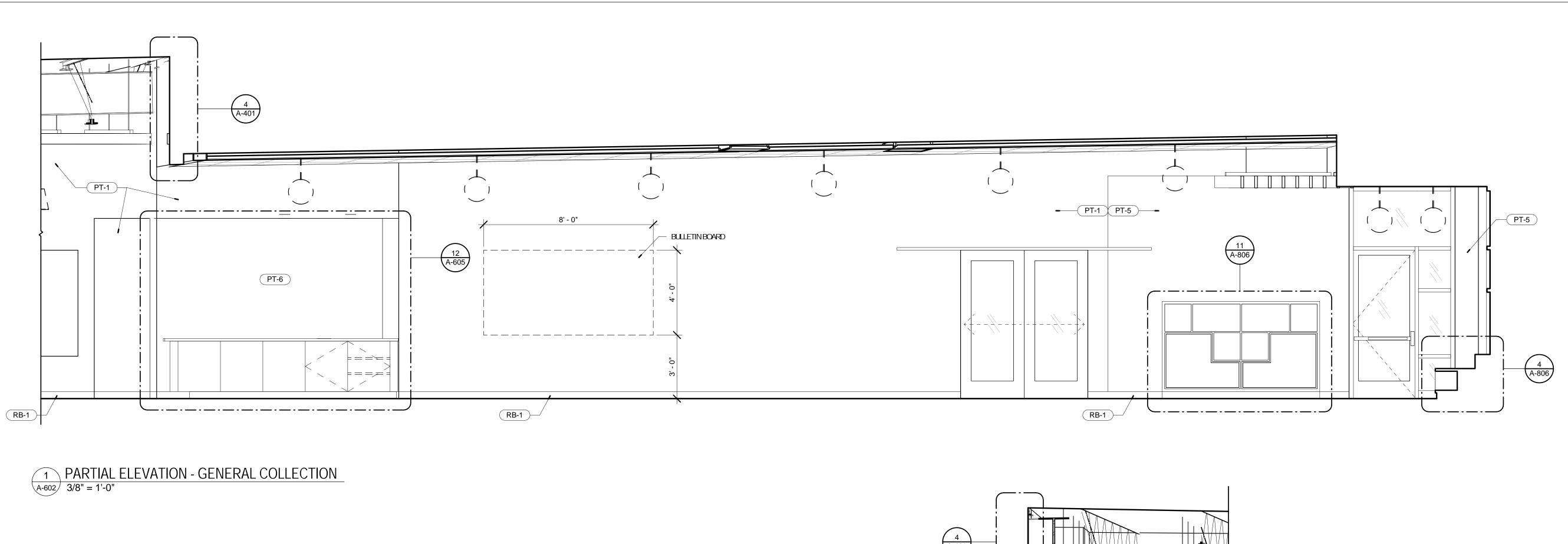
No. Date Description

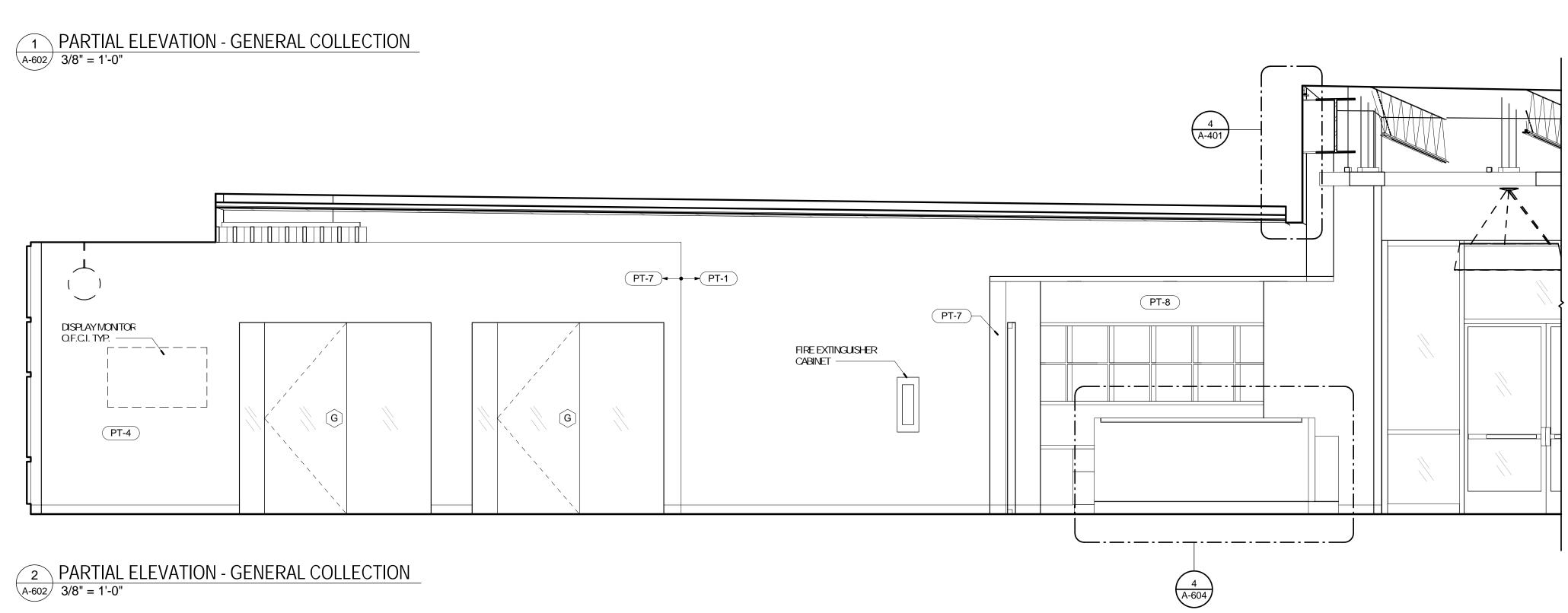
_			
		04/14/17	ISSUED FOR BID
'			

DRAWNBY: SC/SH

PROJECT NUMBER: 16-1161.07

SHEET TITLE: **ELEVATIONS - EXTERIOR**









ARCHITECT-OF-RECORD
JEMA
3005 LOOUST ST.
ST. LOUS, MO 63103
T (314) 531-7400
CONTACT: SOOTT CLARK
E-MAIL: SOLARK@JEMASTL.COM

DESIGNAROHITECT
SAPP DESIGNASSOCIATES APOHTECTS
3750 SOUTH FREMONT
SPRINGRIELD, MO 65804
T (417) 877-9600
F (417) 877-9696
CONTACT: JAMES STUFFLEBEAM
E: STUFFLEBEAM@SDAAROHITECTS.COM

CML
COOHRAN
530A E INDEPENDENCE DRIVE
UNCN, MO 63084
CONTACT: DAVE VAN LEER
T (636) 584-0540 F (636) 584-0512 E-MAIL: DVANLEER@0000-FAN.COM

STRUCTURAL ALPERAUDI, INC. 1804 BORWAN GROLE DRIVE ST. LOUS, MO 63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE EL PETT E-MAIL: STEVE. EI-PETT@ALPERAUDI.COM

MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTINERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MD63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BOOLEVAN@BRICPARTINERSHP.COM

ARCHITECT OF RECORD:

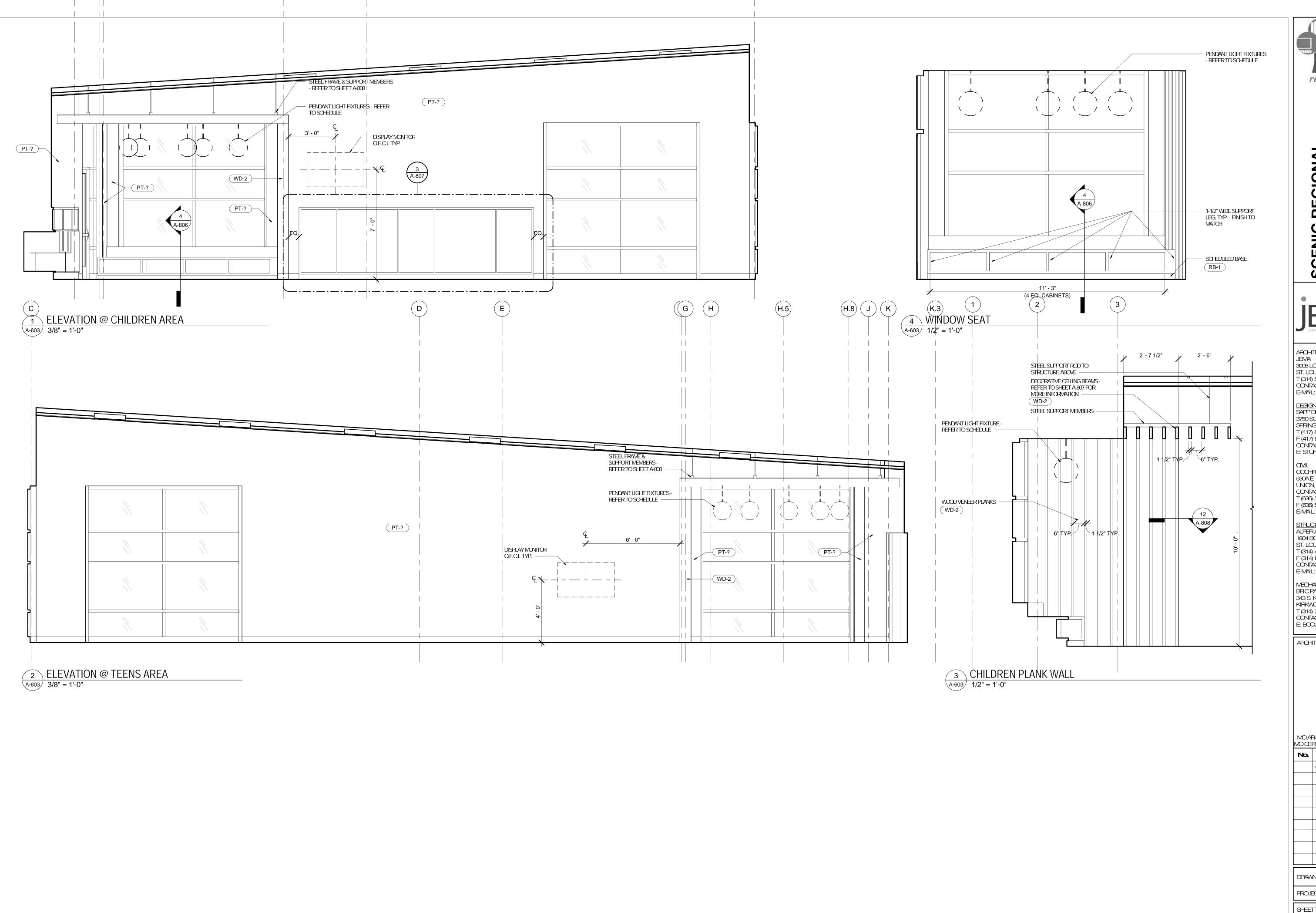
JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

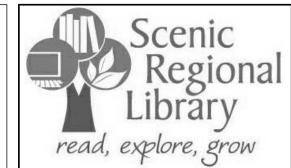
No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWNBY: SC/SH

PROJECT NUMBER: 16-1161.07

SHEETTITLE: **ELEVATIONS - INTERIOR**





AAY 08

LIBRARY
SULLIVAN BRANCH
525 CUMBERLAND W
SULLIVAN MO 63080

ENAS 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

DESIGNAROHTECT
SAPP DESIGNASSOCIATES ARCHTECTS
3750 SOUTH FREMONT
SPRINGFIELD, MO 66804
T (417) 877-9600
F (417) 877-9696
CONTACT: JAVES STUFFLEBEAM
E: STUFFLEBEAM@SDAAROHTECTS.COM

CML
COOHRAN
530A E INDEPENDENCE DRIVE
UNION, MO 63084
CONTACT: DAVE VAN LEER
T (636) 584-0540
F (636) 584-0512
E-MAIL: DVAN LEER @COOHRAN COM

STRUCTURAL
ALPER AUDI, INC.
1804 BORWAN OROLE DRIVE
ST. LOUIS, MO 63146
T (314) 432-8600
F (314) 807-2774
CONTACT: STEVE B-RETT
E-MAIL: STEVE B-RETT@ALPERAUDI.COM

MECHANICAL, ELECTRICAL, PLUMBING
BRIC PARTINERSHP, LLC
343 S. KIRKWOOD ROAD, SUITE 204
KIRKWOOD, MO 63122
T (314) 725-5889
CONTACT: BRUCE COLEMAN
E: BOOLEMAN@BRICPARTINERSHP.COM

ARCHITECT OF RECORD:

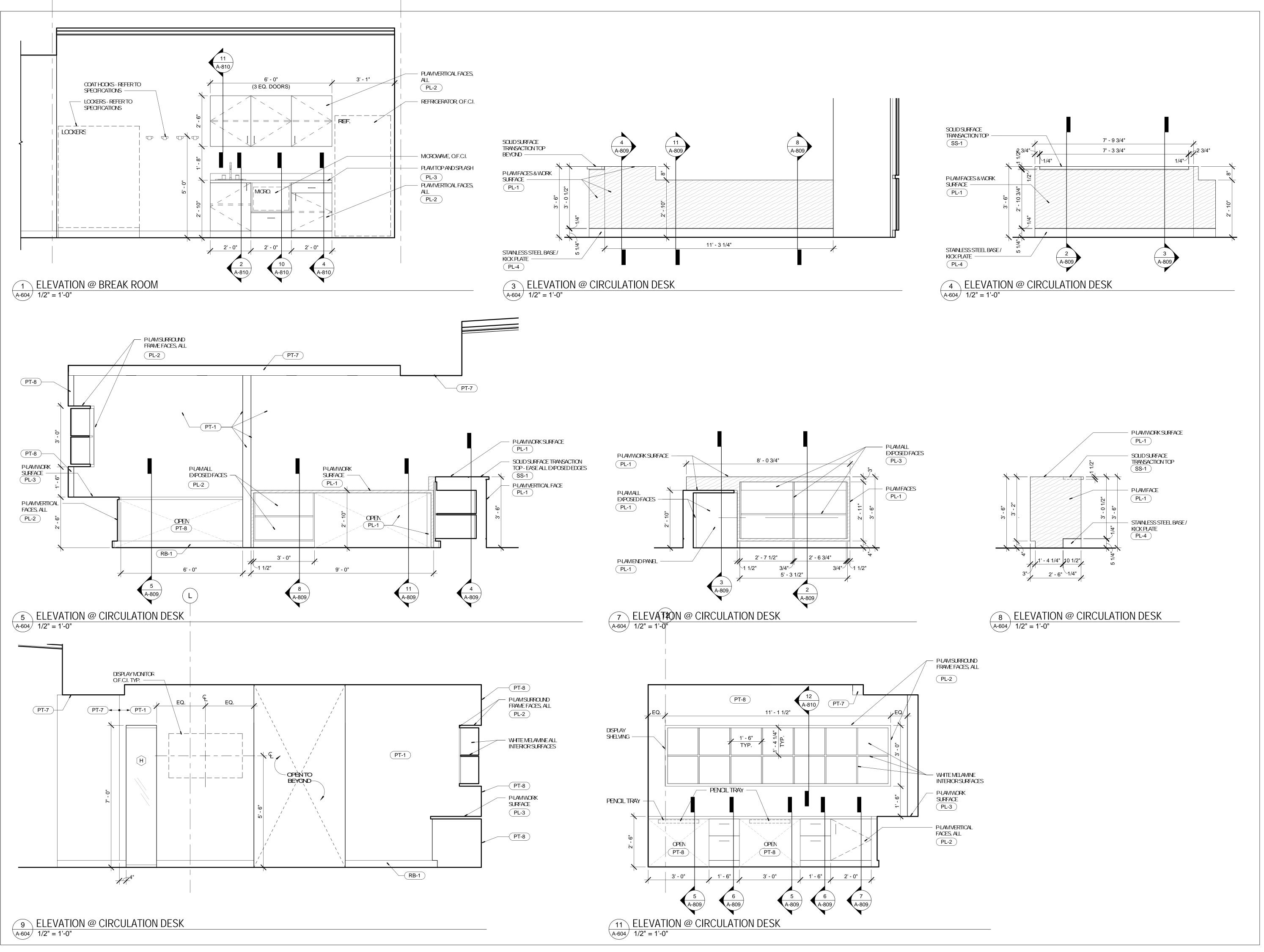
JOHNEDWARD MUELLER
MO ARCHTECTURAL LICENSE A2010039554
MO CERTIFICATE OF AUTHORITY A2014008380

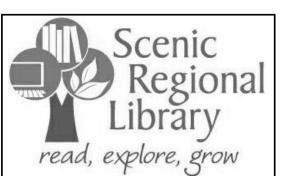
No.	Date	Description		
	04/14/17	ISSUED FOR BID		

DRAWNBY: SC/SH

PROJECT NUMBER: 16-1161.07

SHEET TITLE:
ELEVATIONS - INTERIOR





ENIC REGIONAL
RARY
LIVAN BRANCH
CUMBERLAND WAY
LIVAN, MO 63080

ARCHTECT-OF-RECORD
JEWA
3005 LOCUST ST.
ST. LOUS, MO63103
T (314) 531-7400
CONTACT: SCOTT CLARK
E-MAL: SCLARK@JEWASTLCOM

DESIGNARCHTECT
SAPP DESIGNASSOCIATES ARCHITECTS
3750 SOUTH FREMONT
SPRINGFIELD, MO65804
T (417) 877-9600
F (417) 877-9696
CONTACT: JAVES STUFFLEBEAM
E: STUFFLEBEAM@SDAARCHTECTS.COM

CML
COOHRAN
530AE INDEPENDENCE DRIVE
UNON, MO 63084
CONTACT: DAVE VAN LEER
T (636) 584-0540

CONTACT: DAVE VAN LEER
T (636) 584-0540
F (636) 584-0512
E-MAIL: DVAN LEER @COOL-PAN COM

STRUCTURAL
ALPERAUD, INC.
1804 BORWAN GROLE DRIVE
ST. LOUS, MO 63146
T (314) 432-8600
F (314) 807-2774
CONTACT: STEVE B-RETT@ALPERAUDI.COM

MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTINERSHIP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO 63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BOOLEMAN@BRICPARTINERSHIP.COM

APOHITECT OF RECORD:

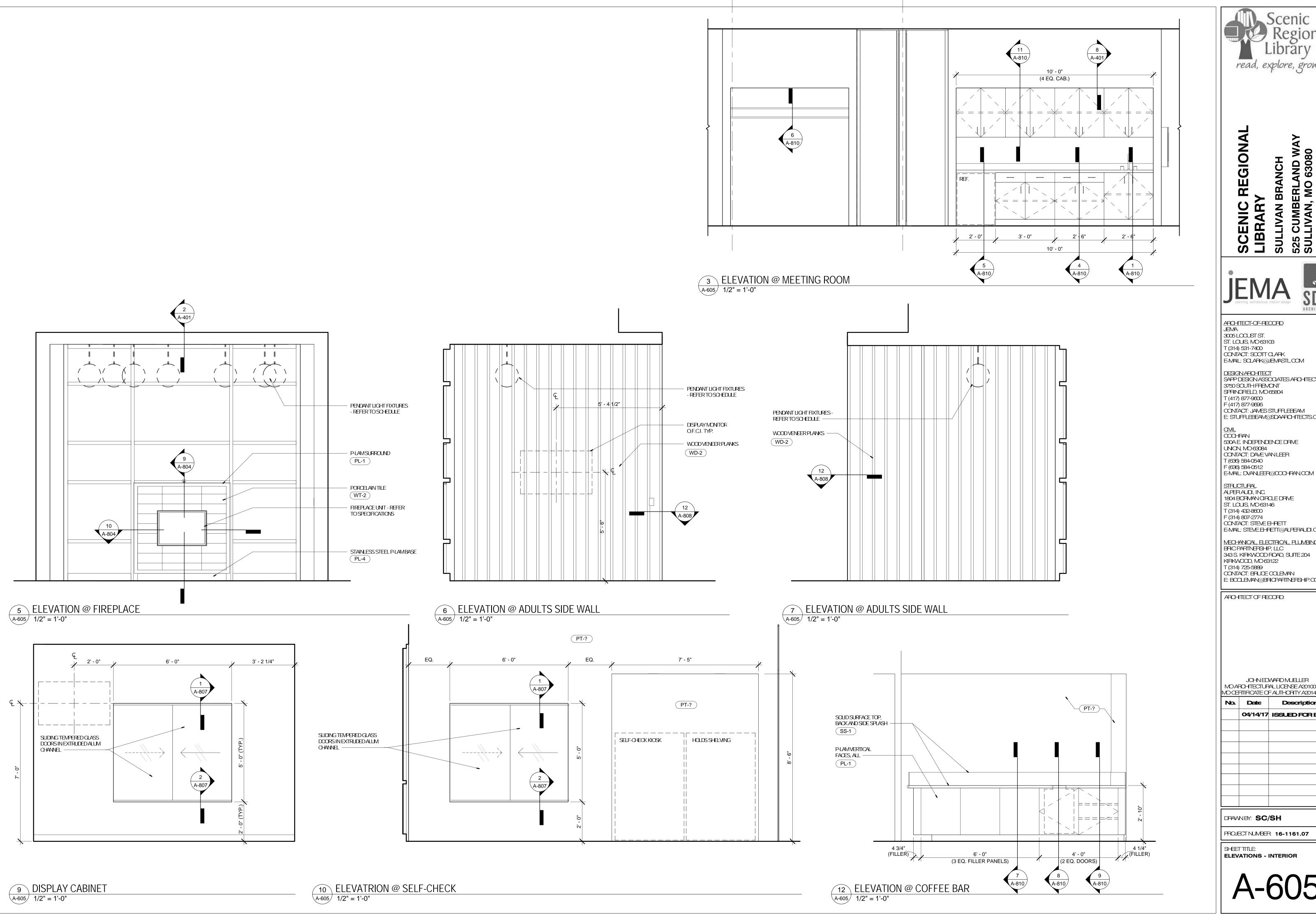
JOHNEDWARD MUELLER
MO ARCHITECTURAL LICENSE A2010039554
MO CERTIFICATE OF AUTHORITY A2014008380

No.	Date	Description		
	04/14/17	ISSUED FOR BID		

DRAWN BY: SC/SH

PROJECT NUMBER: 16-1161.07

SHEETTITLE:
ELEVATIONS - INTERIOR





read, explore, grow

ARCHITECT-OF-RECORD JEMA

3005 LOCUST ST. ST. LOUS, MO63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAIL: SOLARK@JEVASTL.COM

DESIGNAROHTECT SAPP DESIGNASSOCIATES ARCHTECTS 3750 SOUTH FREMONT SPRINGFIELD, MO 65804 CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHTECTS.COM

CML COOHRAN 530A E INDEPENDENCE DRIVE UNION, MO 63084 CONTACT: DAVE VAN LEER

1804 BORMAN GROLE DRIVE ST. LOUS, MO 63146 T (314) 432-8600

E-MAIL: STEVE. EI-PETT@ALPERAUDI.COM MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTINERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO63122

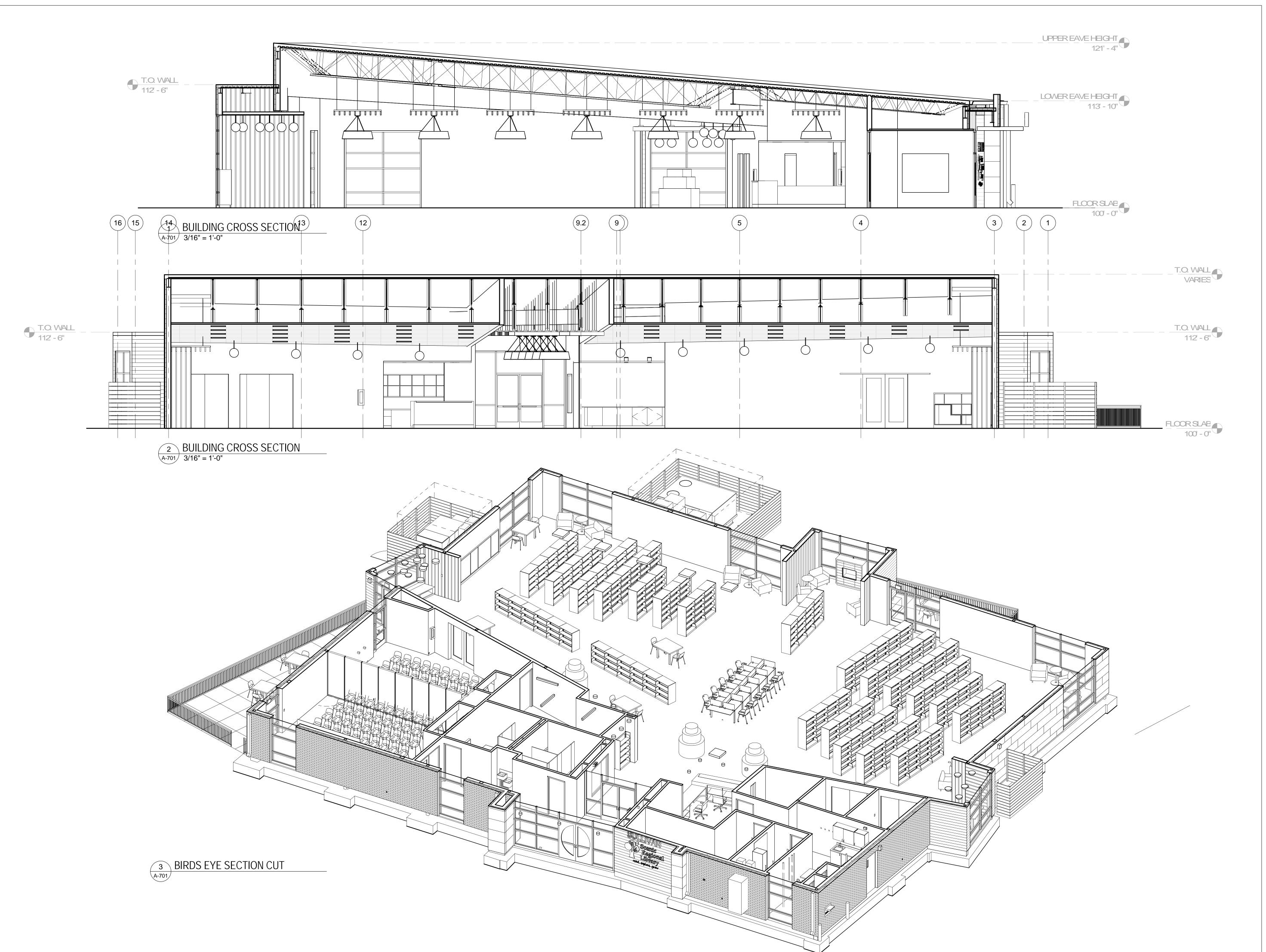
CONTACT: BRUCE COLEMAN E: BOOLEVAN@BRICPARTINERSHP.COM

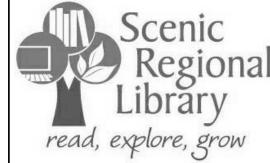
ARCHITECT OF RECORD:

JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

No.	Date	Description
	04/14/17	ISSUED FOR BID

PROJECT NUMBER: 16-1161.07







ARCHITECT-OF-RECORD
JEMA
3005 LOOUST ST.
ST. LOUS, MO 63103
T (314) 531-7400
CONTACT: SOOTT CLARK
E-MAIL: SOLARK@JEMASTL.COM

DESIGNARCHITECT
SAPP DESIGNASSOCIATES ARCHITECTS
3750 SOUTH FREMONT
SPRINCHELD, MO 65804
T (417) 877-9600
F (417) 877-9696
CONTACT: JAMES STUFFLEBEAM
E: STUFFLEBEAM@SDAARCHITECTS.COM

CML COOHRAN 530A E INDEPENDENCE DRIVE UNION, MO 63084 CONTACT: DAVE VAN LEER T (636) 584-0540

F (636) 584-0512 E-MAIL: DVANLEER@0000-FAN.COM

STRUCTURAL ALPERAUDI, INC. 1804 BORMAN GROLE DRIVE ST. LOUS, MO 63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE B-RETT E-MAL: STEVE.EI-PETT@ALPERAUDI.COM

MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTINERSHIP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO 63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BOOLEMAN@BRICPARTINERSHIP.COM

ARCHITECT OF RECORD:

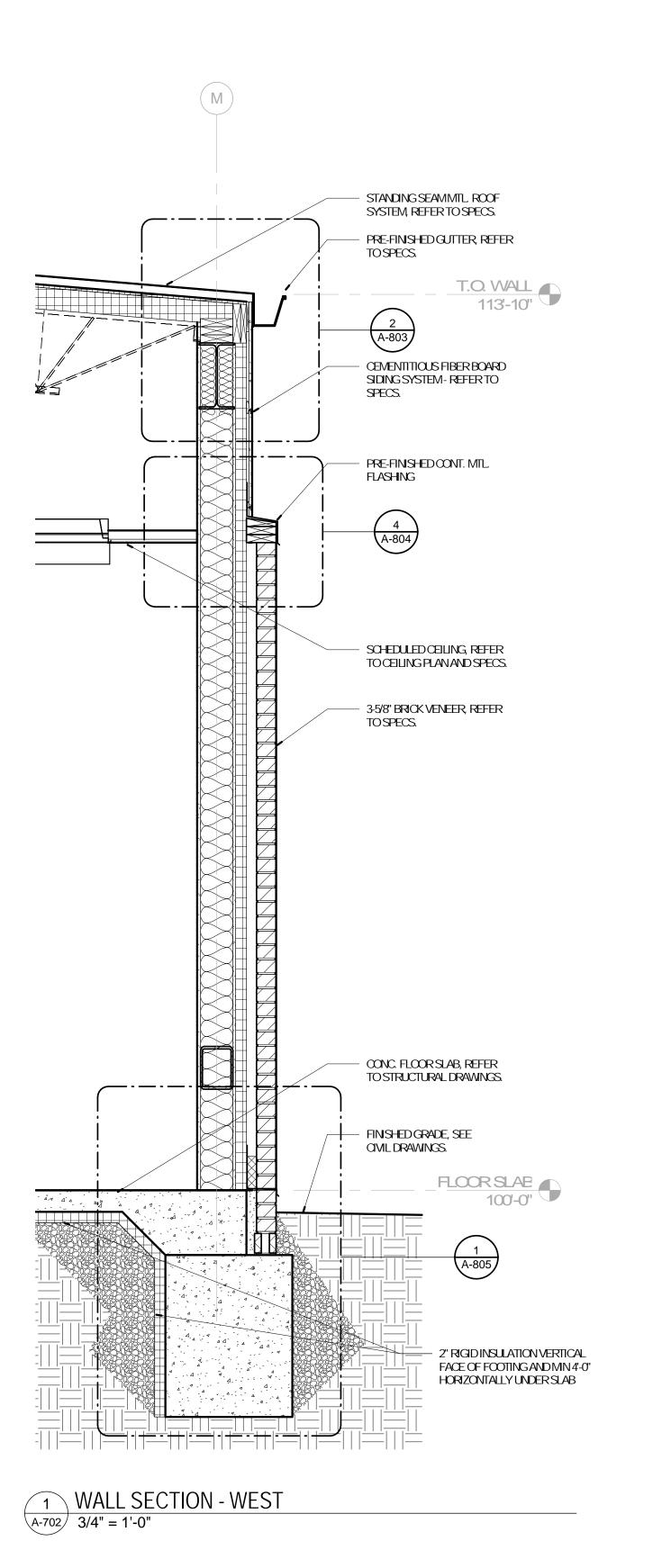
JOHN EDWARD MUELLER MOARCHTECTURAL LICENSE A2010039554 MOCERTIFICATE OF AUTHORITY A2014008380

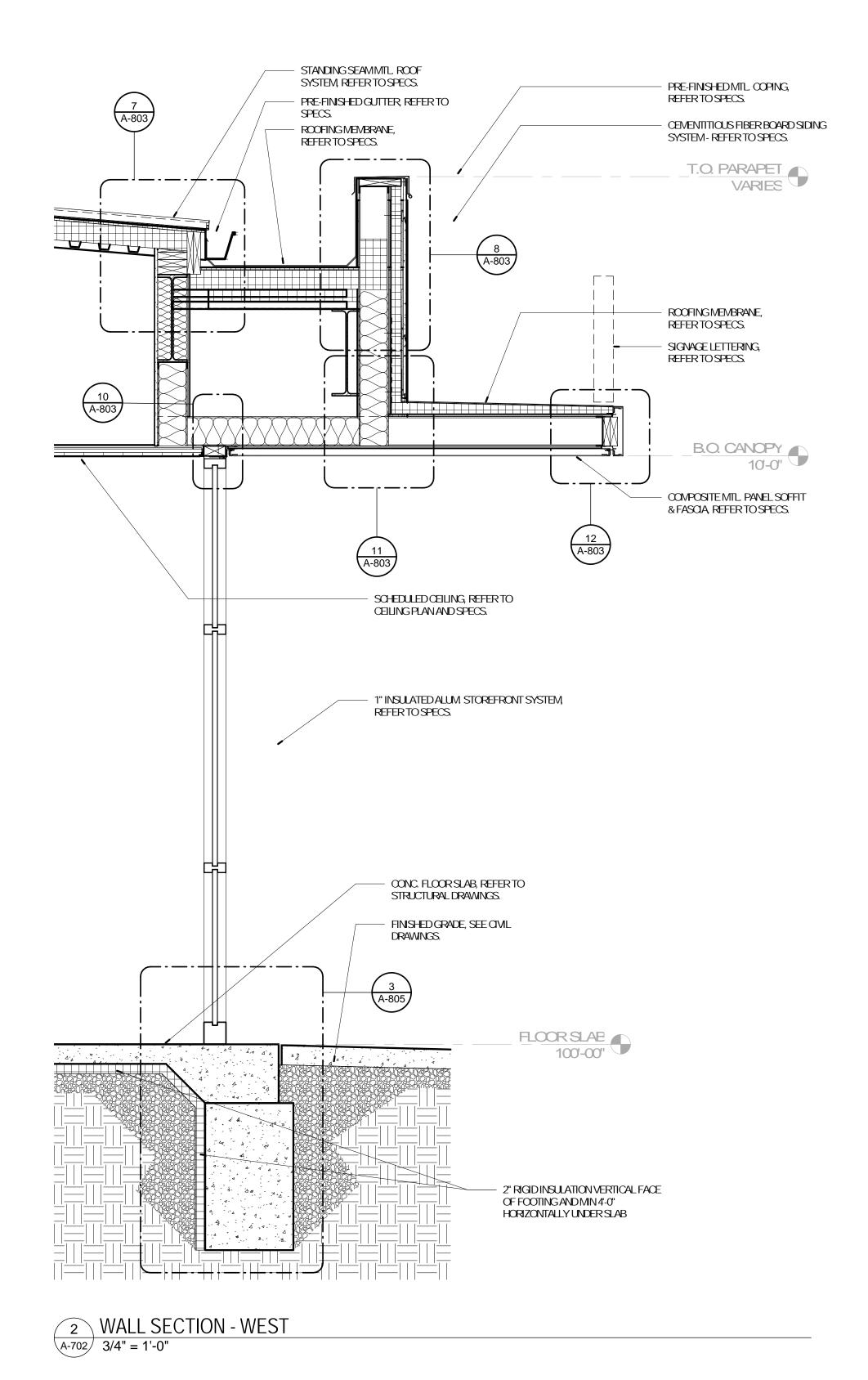
No.	Date	Description
	04/14/17	ISSUED FOR BID

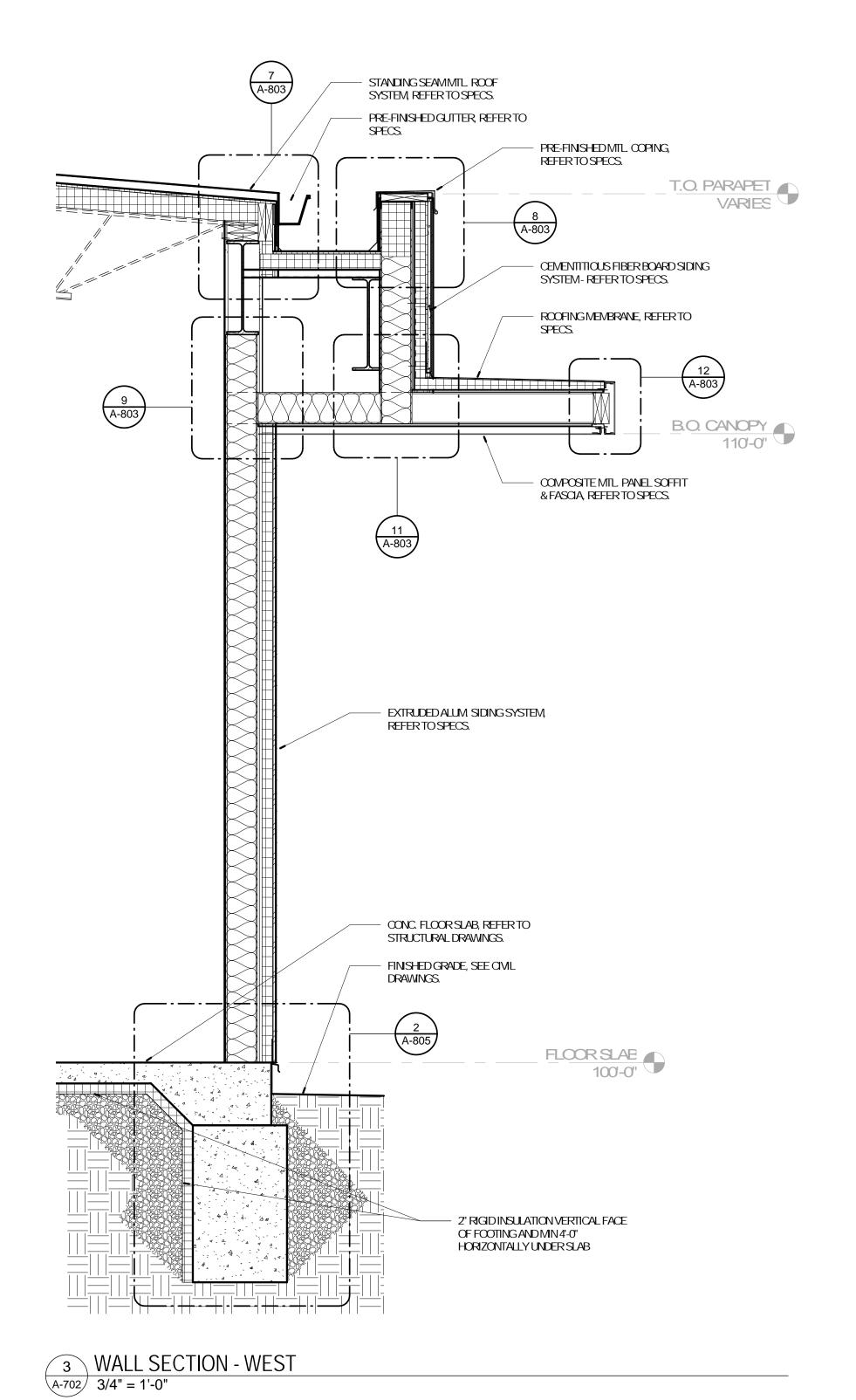
DRAWNBY: SC/SH

PROJECT NUMBER: 16-1161.07

SHEETTITLE SECTIONS - BUILDING









ARCHTECT-OF-RECORD

3005 LOOUST ST. ST. LOUS, MO63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAIL: SOLARK@JEMASTL.COM

DESIGNAROHTECT SAPP DESIGNASSOCIATES ARCHTECTS 3750 SOUTH FREMONT SPRINGFIELD, MO 65804 T (417) 877-9600 F (417) 877-9696 CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHTECTS.COM

CCCCHRAN 530AE INDEPENDENCE DRIVE UNION, MO 63084 CONTACT: DAVE VAN LEER T (636) 584-0540 F (636) 584-0512

E-MAIL: DVANLEER@0000-RANCOM STRUCTURAL ALPERAUDI, INC. 1804 BORWAN GROLE DRIVE ST. LOUS, MD 63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE EL PETT

E-MAIL: STEVE.B-RETT@ALPERAUDI.COM MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTINERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BOOLEVAN@BRICPARTINERSHP.COM

ARCHITECT OF RECORD:

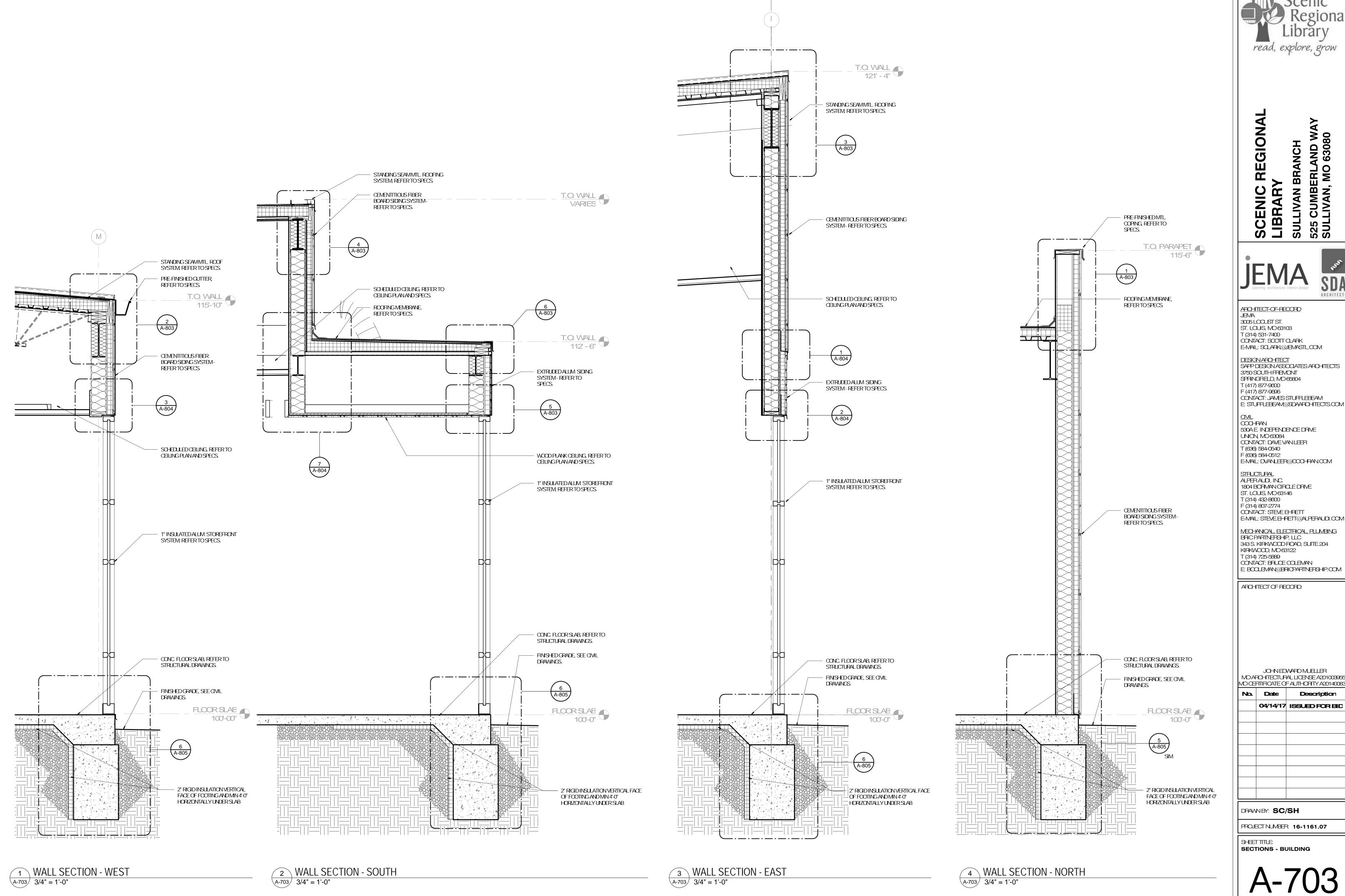
JOHN EDWARD MUELLER MOAPOHTECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

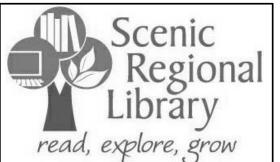
No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWNBY: SC/SH

PROJECT NUMBER: 16-1161.07

SHEETTITLE: SECTIONS - BUILDING





ARCHITECT-OF-RECORD 3005 LOOUST ST. ST. LOUS, MO63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAIL: SOLARK@JEMASTL.COM

DESIGNAROHTECT SAPP DESIGNASSOCIATES ARCHTECTS 3750 SOUTH FREMONT SPRINGFIELD, MO 65804 T (417) 877-9600 F (417) 877-9696 CONTACT: JAMES STUFFLEBEAM

E: STUFFLEBEAM@SDAARCHTECTS.COM CCCCHRAN 530A E INDEPENDENCE DRIVE UNION, MO 63084 CONTACT: DAVE VAN LEER T (636) 584-0540

F (636) 584-0512 E-MAIL: DVANLEER@CCCCHRAN.CCCM STRUCTURAL ALPERAUDI, INC. 1804 BORWAN GROLE DRIVE ST. LOUS, MD 63146 T (314) 432-8600

CONTACT: STEVE EL-RETT E-MAIL: STEVE.EI-PETT@ALPERAUDI.COM MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTINERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO63122

ARCHITECT OF RECORD:

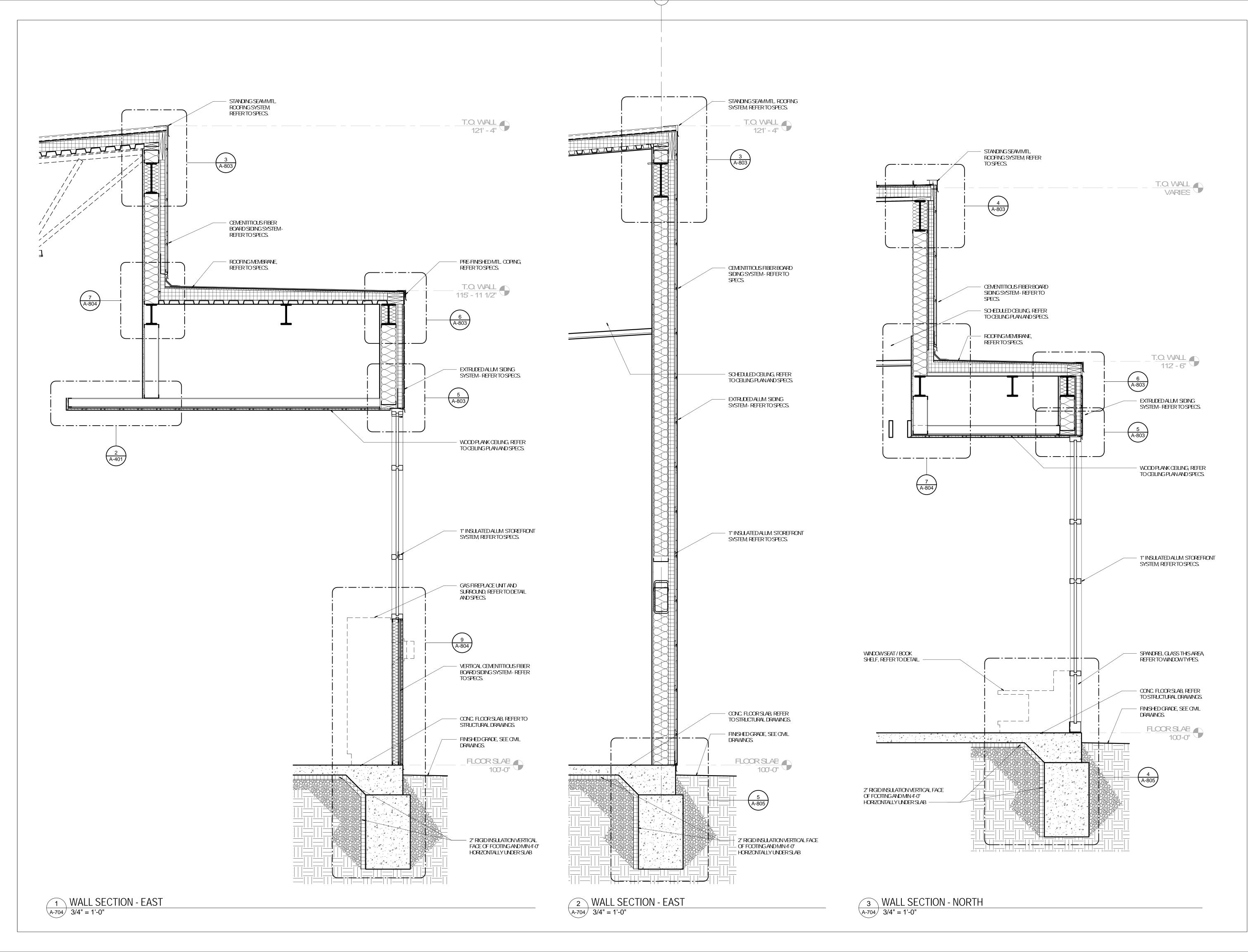
JOHN EDWARD MUELLER MOAPOHTECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

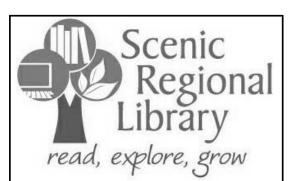
	_
04/14/17	ISSUED FOR BID

DRAWNBY: SC/SH

PROJECT NUMBER: 16-1161.07

SHEET TITLE: SECTIONS - BUILDING





SCENIC REGIONAL
IBRARY
SULLIVAN BRANCH
25 CUMBERLAND WAY

EIVA planning architecture interior design

ARCHTECT-OF-RECORD JEWA 3005 LCCUST ST.

JEMA
3005 LOOUST ST.
ST. LOUS, MO 63103
T (314) 531-7400
CONTACT: SOOTT CLARK
E-MAIL: SOLARK@JEMASTL.COM

DESIGNAPOHTECT
SAPP DESIGNASSOCIATES ARCHITECTS
3750 SOUTH FREMONT
SPRINGFIELD, MO 65804
T (417) 877-9600
F (417) 877-9696

F (417) 877-9600
F (417) 877-9696
CONTACT: JAMES STUFFLEBEAM
E: STUFFLEBEAM@SDAARCHTECTS.COM

OML
COOHRAN
530A E INDEPENDENCE DRIVE

530A E INDEPENDENCE DRIVE UNION, MO 63084 CONTACT: DAVE VAN LEER T (636) 584-0540 F (636) 584-0512 E-MAIL: DVAN LEER @COOL-RAN COM

STRUCTURAL
ALPERAUDI, INC.
1804 BORMAN GROLE DRIVE
ST. LOUIS, MO 63146
T (314) 432-8600
F (314) 807-2774
CONTACT: STEVE BHRETT@ALPERAUDI.COM

MECHANICAL, ELECTRICAL, PLUMBING
BRIC PARTINERSHIP, LLC
343 S. KIRKWOOD ROAD, SUITE 204
KIRKWOOD, MO 63122
T (314) 725-5889
CONTACT: BRUCE COLEMAN
E: BOOLEMAN@BRICPARTINERSHIP.COM

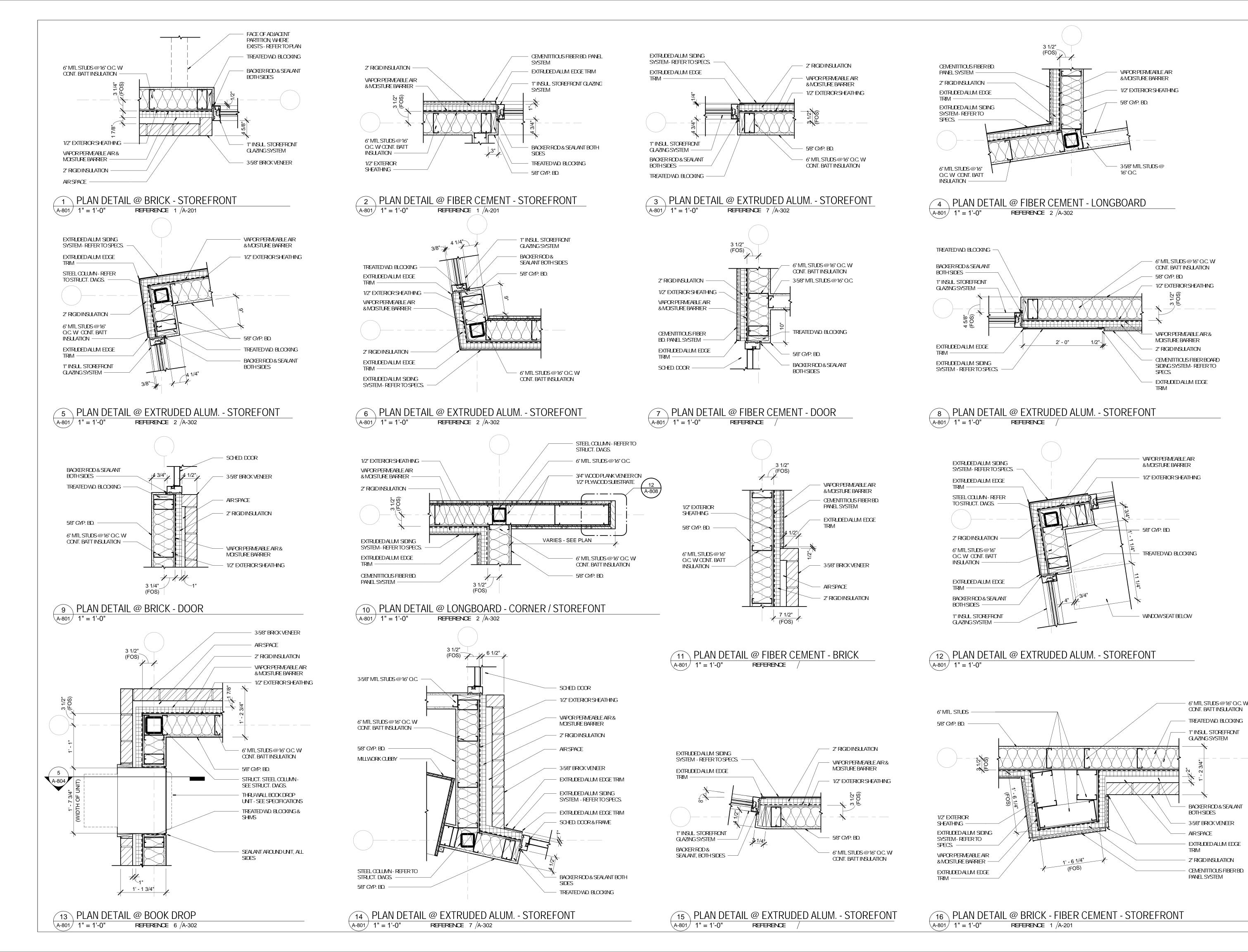
ARCHITECT OF RECORD:

JOHNEDWARD MUELLER MOARCHTECTURAL LICENSE A2010039554 MOCERTIRICATE OF AUTHORITY A2014008380

No.	Date	Description
	04/14/17	ISSUED FOR BID

PROJECT NUMBER: 16-1161.07

SHETTITLE
SECTIONS - BUILDING



Scenic Regional Library read, explore, grow

IBRARY
ULLIVAN BRANCH
25 CUMBERLAND WAY

Ing architecture interior design

ARCHTECT-OF-RECORD
JEWA
3005 LOCUST ST.
ST. LOUS, MO 63103
T (314) 531-7400
CONTACT: SCOTT CLARK
E-MAIL: SCLARK@JEWASTLCOM

DESIGNAROHTECT
SAPP DESIGNASSOCIATES ARCHITECTS
3750 SOUTH FREMONT
SPRINGFIELD, MO 65804
T (417) 877-9600
F (417) 877-9696
CONTACT: JAMES STUFFLEBEAM
E: STUFFLEBEAM@8DAAROHTECTS.COM

QML
COOHRAN
530A E INDEPENDENCE DRIVE
UNON, MO 63084
CONTACT: DAVE VAN LEER
T (636) 584-0540
F (636) 584-0512
E-MAIL: DVAN LEER@COOHRAN COM

STRUCTURAL
ALPERAUDI, INC.
1804 BORMAN GROLE DRIVE
ST. LOUIS, MO 63146
T (314) 432-8600
F (314) 807-2774
CONTACT: STEVE B-RETT

E-MAIL: STEVE.B-RETT@ALPERAUDI.COM

MECHANICAL, BLECTRICAL, PLUMBING
BRIC PARTINERSHIP, ILLC
343 S. KIRKWOOD ROAD, SUITE 204
KIRKWOOD, MO 63122
T (314) 725-5889
CONTACT: BRUCE COLEWAN

E: BOOLEMAN@BRICPARTNERSHP.COM

ARCHTECT OF RECORD:

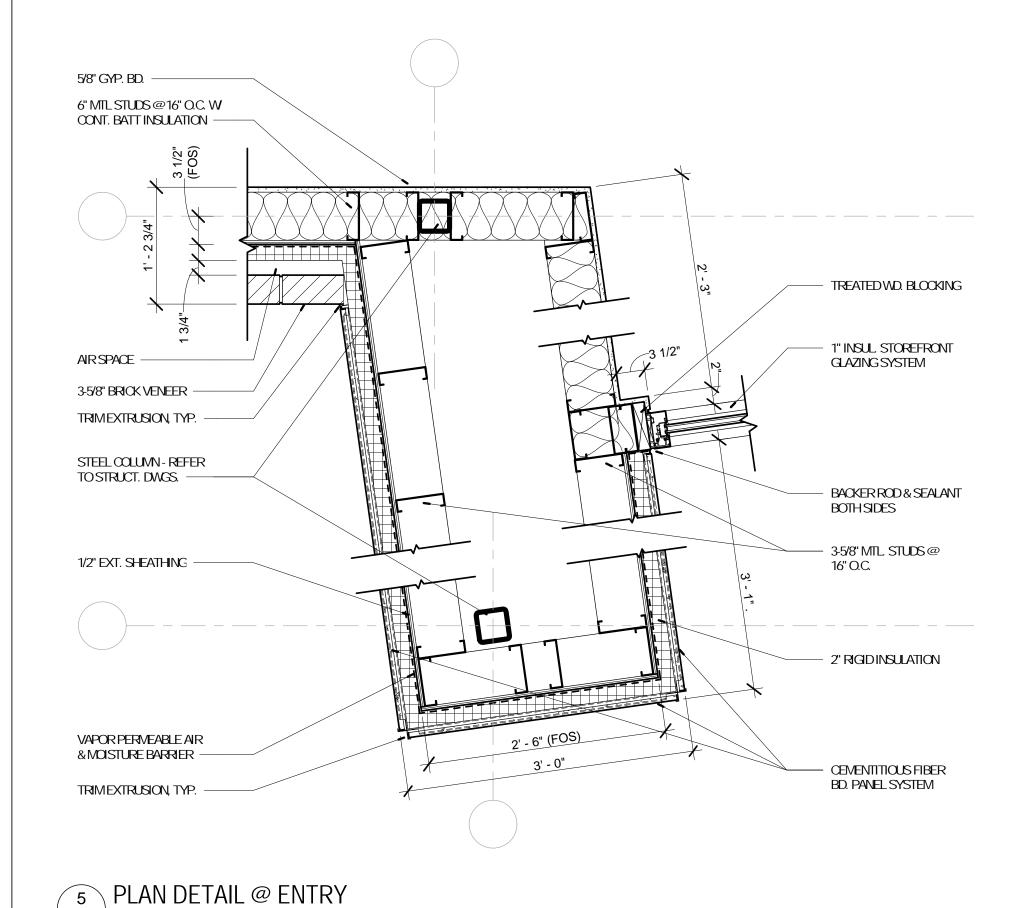
JOHNEDWARD MUELLER
MO ARCHITECTURAL LICENSE A2010039554
MO CERTIFICATE OF AUTHORITY A2014008380

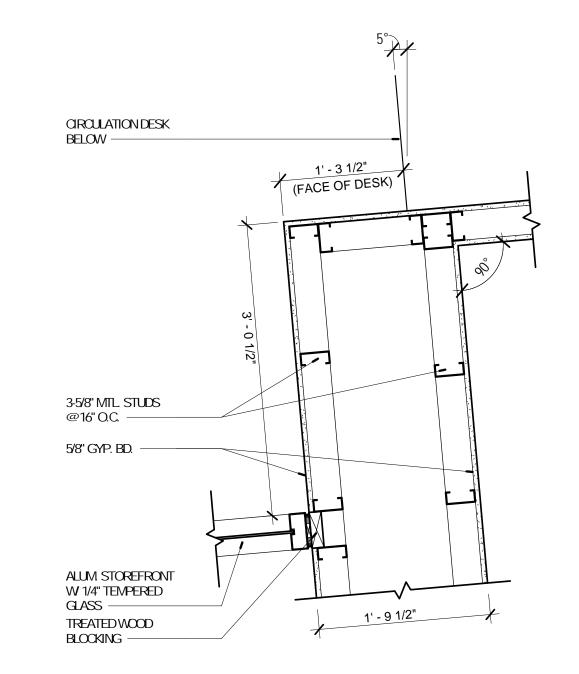
No. Date Description

O4/14/17 ISSUED FOR BID

PROJECT NUMBER: 16-1161.07

SHEETTITLE:
DETAILS - PLAN





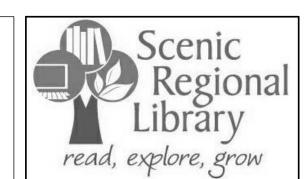
4 PLAN DETAIL@ DESK_STOREFRONT
A-802 1" = 1'-0" REFERENCE 1 /A-302

35/8' MIL STUDS @ 16" O.C.

5/8' GYP. BD

SILL BELOW SS-1
1/4" CHANNEL-SET TEMPERED CLASS

8 PLAN DETAIL @ DISPLAY 1" = 1'-0"



SCENIC REGIONAL
LIBRARY
SULLIVAN BRANCH
525 CUMBERLAND WAY



ARCHTECT-OF-RECORD
JEMA
3005 LOOUST ST.
ST. LOUS, MO 63103
T (314) 531-7400
CONTACT: SOOTT CLARK
E-MAIL: SOLARK@JEMASTLCOM

DESIGNARCHTECT
SAPP DESIGNASSOCIATES ARCHTECTS
3750 SOUTH FREMONT
SPRINGRIELD, MO 65804
T (417) 877-9600
F (417) 877-9696
CONTACT: JAMES STUFFLEBEAM
E: STUFFLEBEAM@SDAARCHTECTS.COM

CIMIL
COOHRAN
530A E INDEPENDENCE DRIVE
UNION, MO 63084
CONTACT: DAVE VAN LEER
T (636) 584-0540
F (636) 584-0512
E-MAIL: DVAN LEER (2000-RAN COM

STRUCTURAL
ALPERAUDI, INC.
1804 BORMAN GROLE DRIVE
ST. LOUIS, MO 63146
T (314) 432-8600
F (314) 807-2774
CONTACT: STEVE B-RETT

E-MAIL: STEVE B-RETT@ALPERAUDI.COM

MECHANICAL, BLECTRICAL, PLUMBING
BRIC PARTINERSHIP, LLC
343 S. KIRKWOOD ROAD, SUTTE 204
KIRKWOOD, MO 63122
T (314) 725-5889
CONTACT: BRUCE COLEMAN
E: BOOLBWAN@BRICPARTINERSHIP.COM

ARCHITECT OF RECORD:

JOHN EDWARD MUELLER

MO ARCHTECTURAL LICENSE A2010039554

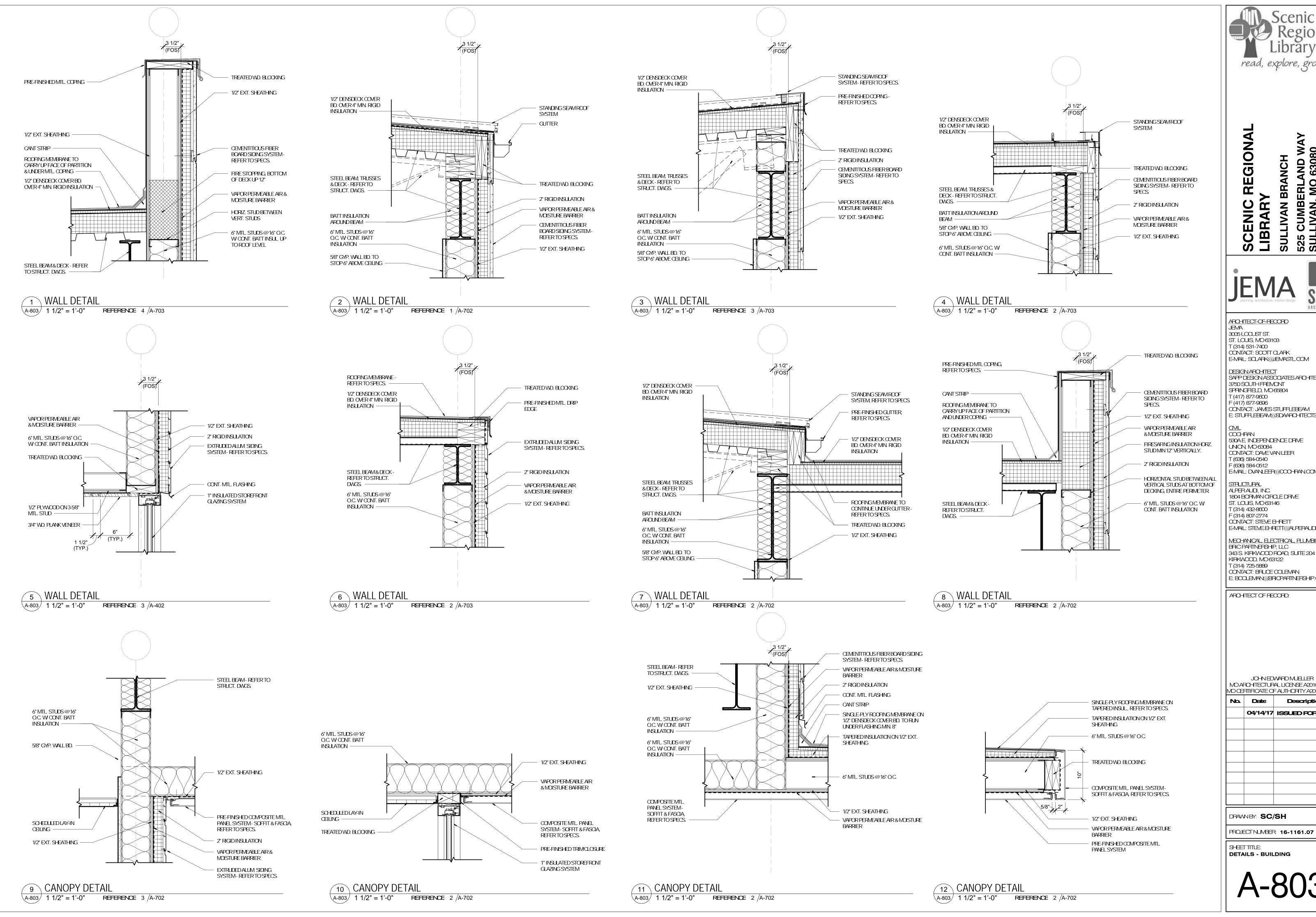
MO CERTIFICATE OF AUTHORITY A2014008380

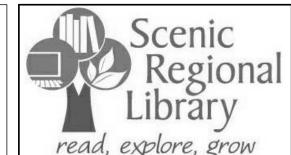
No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWNBY: SC/SH

PROJECTNUMBER: 16-1161.07

SHEETTITLE:
DETAILS - PLAN





E-MAIL: SOLARK@JEVASTLCOM

DESIGNARCHTECT SAPP DESIGNASSOCIATES ARCHTECTS

E: STUFFLEBEAM@SDAAPOHTECTS.COM 530A E INDEPENDENCE DRIVE

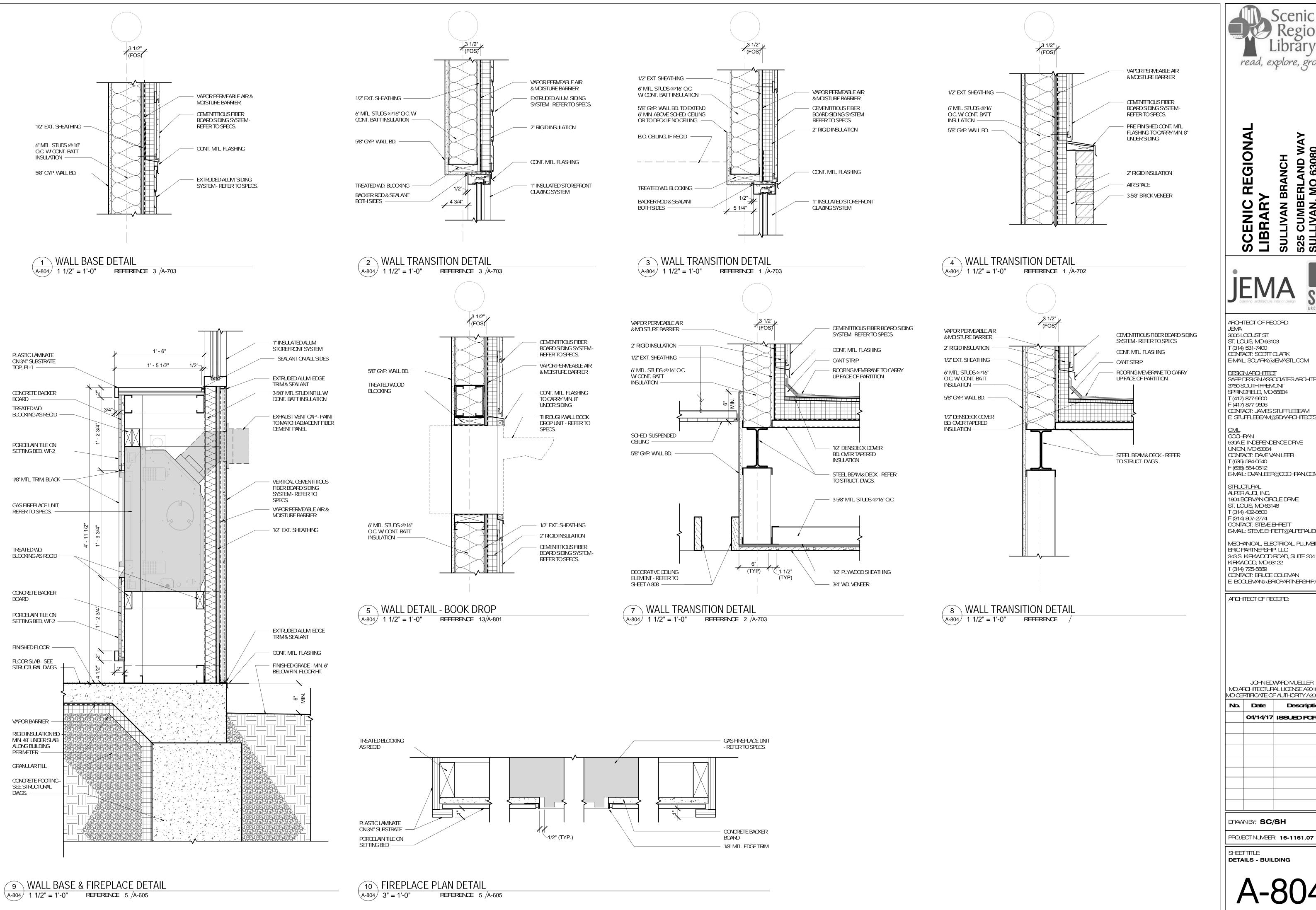
E-MAIL: DVANLEER@CCCCHRAN.CCCM

E-MAIL: STEVE.B-RETT@ALPERAUDI.COM MECHANICAL, ELECTRICAL, PLUMBING

343 S. KIRKWOOD ROAD, SUITE 204 E: BOOLEMAN@BRICPARTINERSHP.COM

JOHN EDWARD MUELLER MO ARCHTECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

No.	Date	Description
	04/14/17	ISSUED FOR BID





ARCHTECT-OF-RECORD 3005 LOCUST ST. ST. LOUS, MO63103 CONTACT: SCOTT CLARK E-MAL: SOLARK@JEMASTLCOM

DESIGNARCHTECT SAPP DESIGNASSOCIATES ARCHTECTS 3750 SOUTH FREMONT SPRINGFIELD, MO 65804 CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHTECTS.COM

530AE INDEPENDENCE DRIVE CONTACT: DAVE VAN LEER E-MAIL: DVANLEER@CCCCHRAN.CCCM

1804 BORMAN GROLE DRIVE ST. LOUS, MO63146 CONTACT: STEVE EL PETT E-MAIL: STEVE.B-RETT@ALPERAUDI.COM

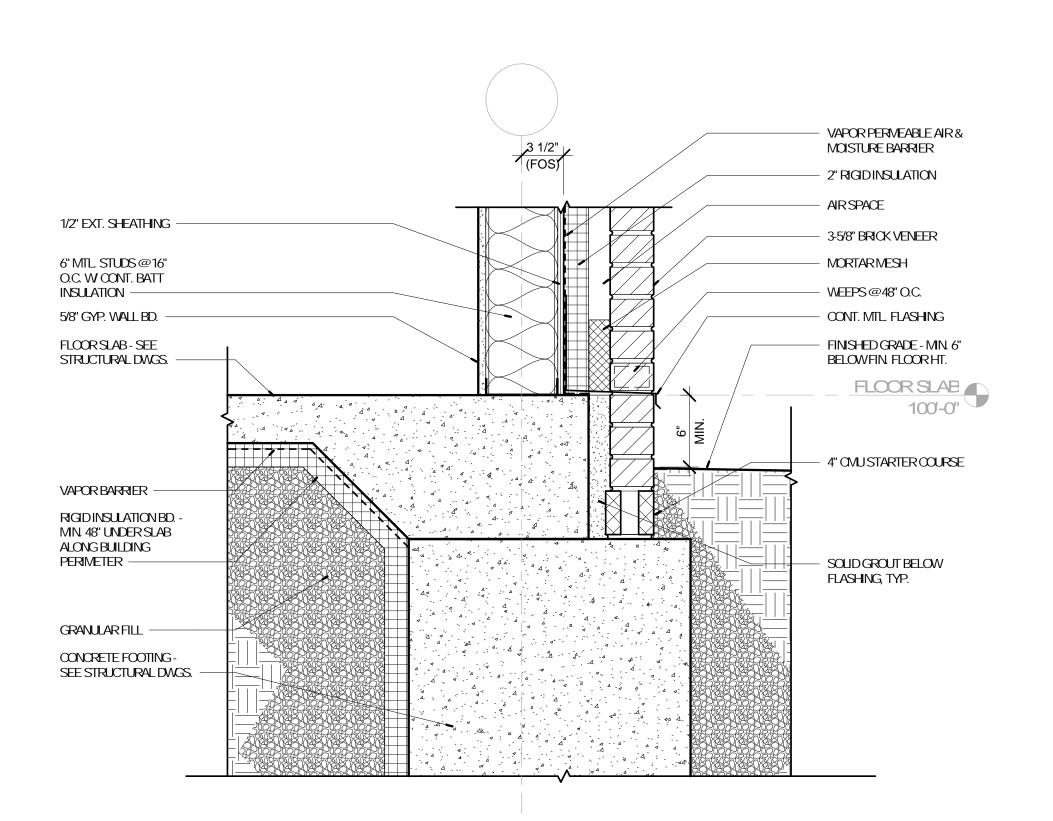
MECHANICAL, ELECTRICAL, PLUMBING BRICPARTNERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO63122 CONTACT: BRUCE COLEMAN E: BOOLEMAN@BRICPARTINERSHP.COM

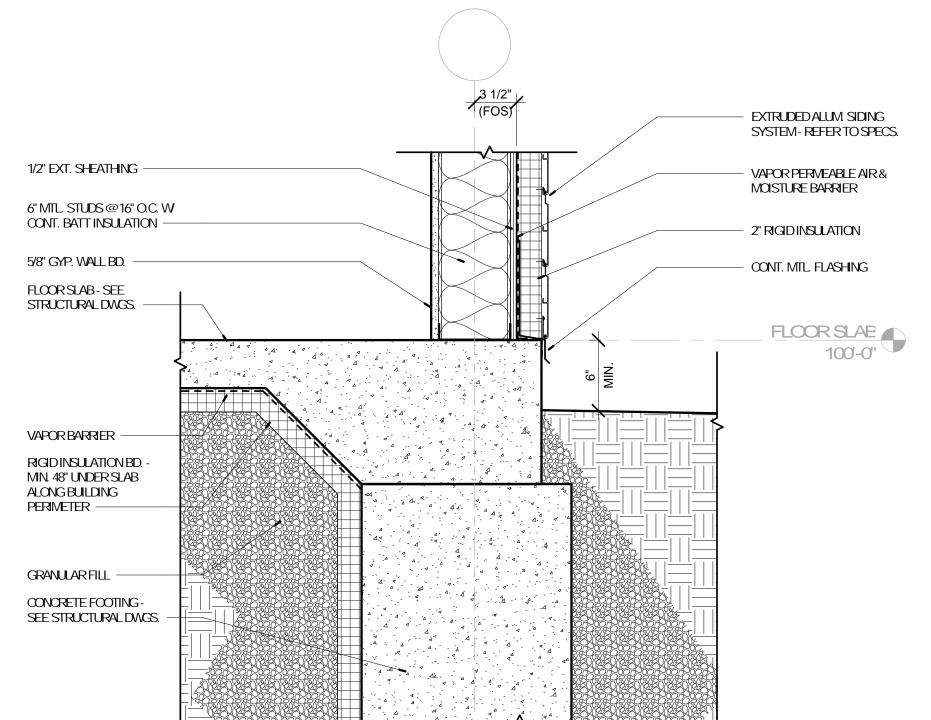
ARCHTECT OF RECORD:

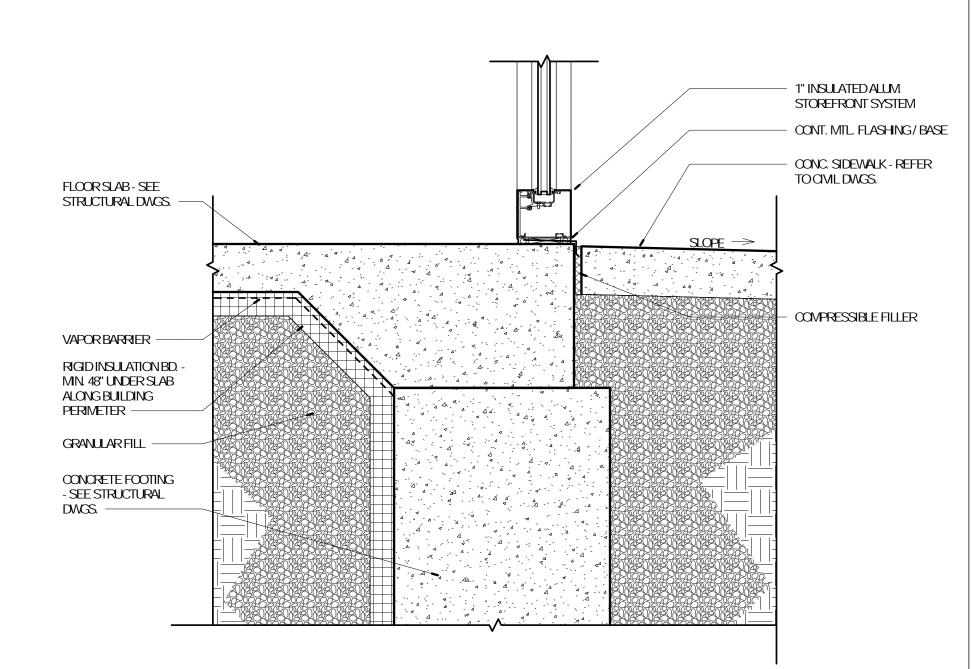
JOHN EDWARD MUELLER MOAPOHTECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

No.	Date	Description
	04/14/17	ISSUED FOR BID

DETAILS - BUILDING







1 WALL BASE DETAIL A-805 1 1/2" = 1'-0" REFERENCE 1 /A-702

2 WALL BASE DETAIL A-805 1 1/2" = 1'-0" REFERENCE 3 /A-702

1/2" EXT. SHEATHING -

6" MTL STUDS @ 16" O.C. W

CONT. BATT INSULATION

5/8" GYP. WALL BD. -

FLOOR SLAB - SEE STRUCTURAL DWGS. -

VAPORBARRIER -

ALONG BUILDING

PERIMETER -

GRANULAR FILL :

CONCRETE FOOTING-SEE STRUCTURAL DWGS.

RIGIDINSULATION BD. -

MN. 48" UNDER SLAB

A-805 1 1/2" = 1'-0" REFERENCE 2 /A-702

CEMENTITIOUS FIBER BOARD

2" RIGIDINSULATION

MOISTURE BARRIER

CONT. MTL FLASHING

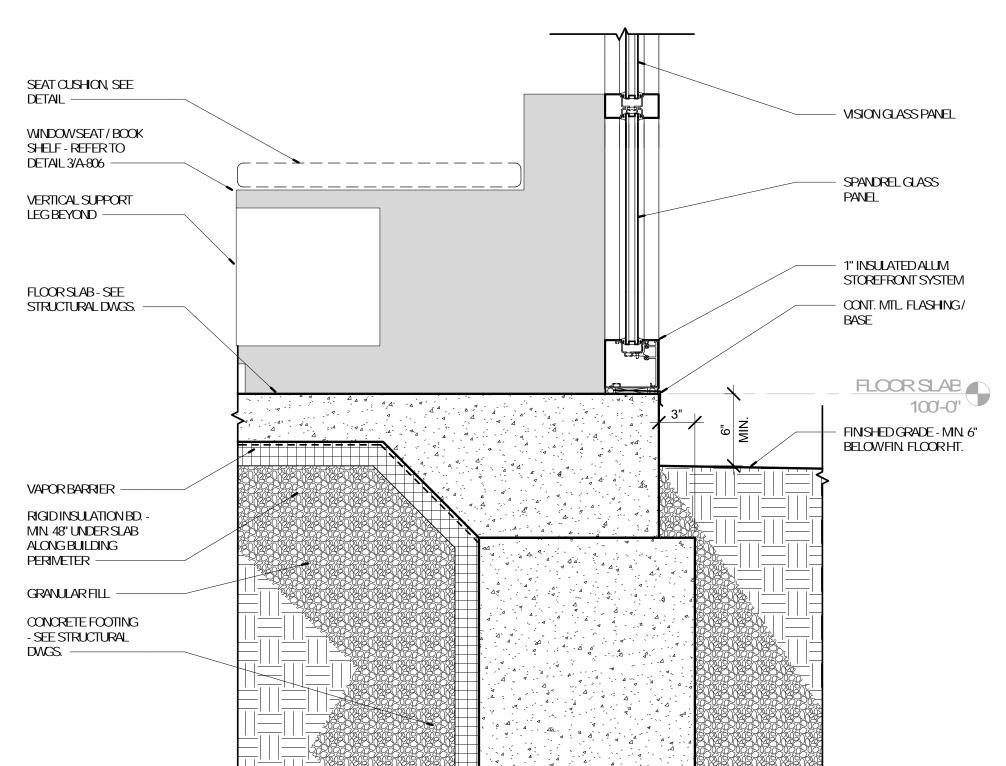
FLOOR SLAE

- FINISHED GRADE - MIN. 6"

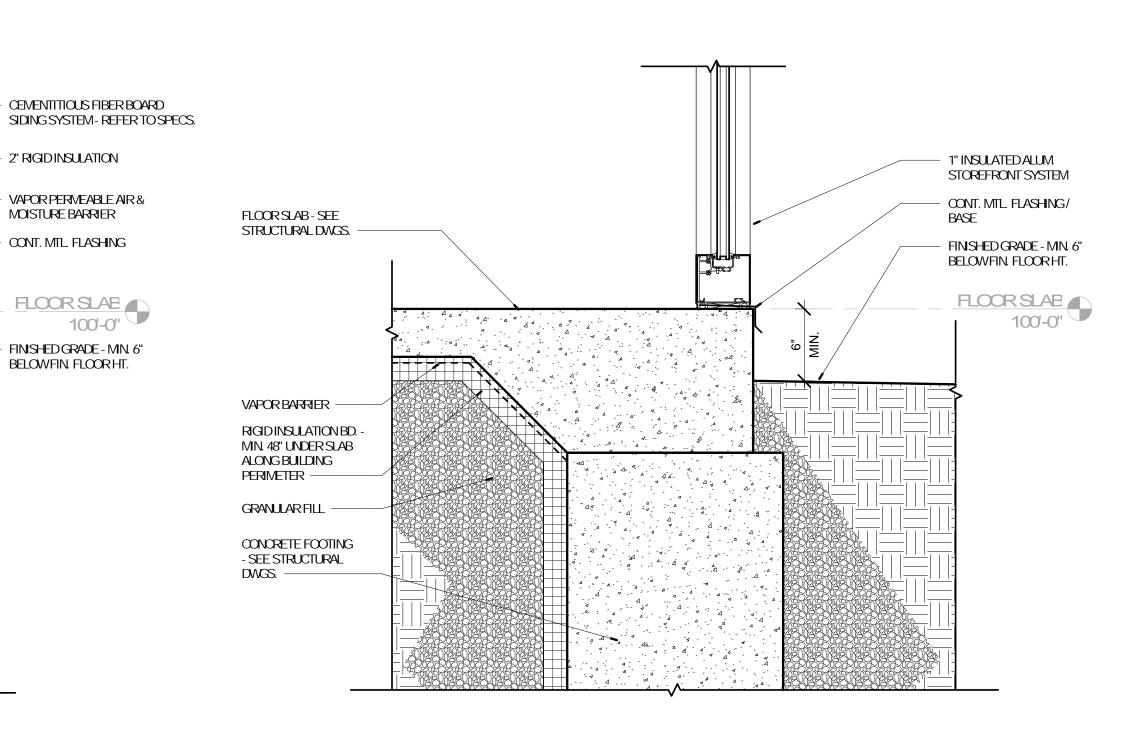
BELOWFIN FLOOR HT.

100-0"

VAPOR PERVEABLE AIR &









ARCHTECT-OF-RECORD 3005 LOCUST ST. ST. LOUS, MO63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAIL: SOLARK@JEMASTL.COM

<u>DESIGNAROHTECT</u> SAPP DESIGNASSOCIATES ARCHITECTS 3750 SOUTH FREMONT SPRINGFIELD, MO 65804 T (417) 877-9600 F (417) 877-9696 CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHTECTS.COM

CCCCHRAN 530AE INDEPENDENCE DRIVE UNION, MO 63084 CONTACT: DAVE VAN LEER T (636) 584-0540 F (636) 584-0512

E-MAIL DVANLEER@CCCCHRAN.CCCM STRUCTURAL ALPERAUD, INC. 1804 BORMAN GROLE DRIVE ST. LOUS, MO63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE EL PETT E-MAIL: STEVE.B-RETT@ALPERAUDI.COM

MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTINERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, M063122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BOOLEMAN@BRICPARTNERSHP.COM

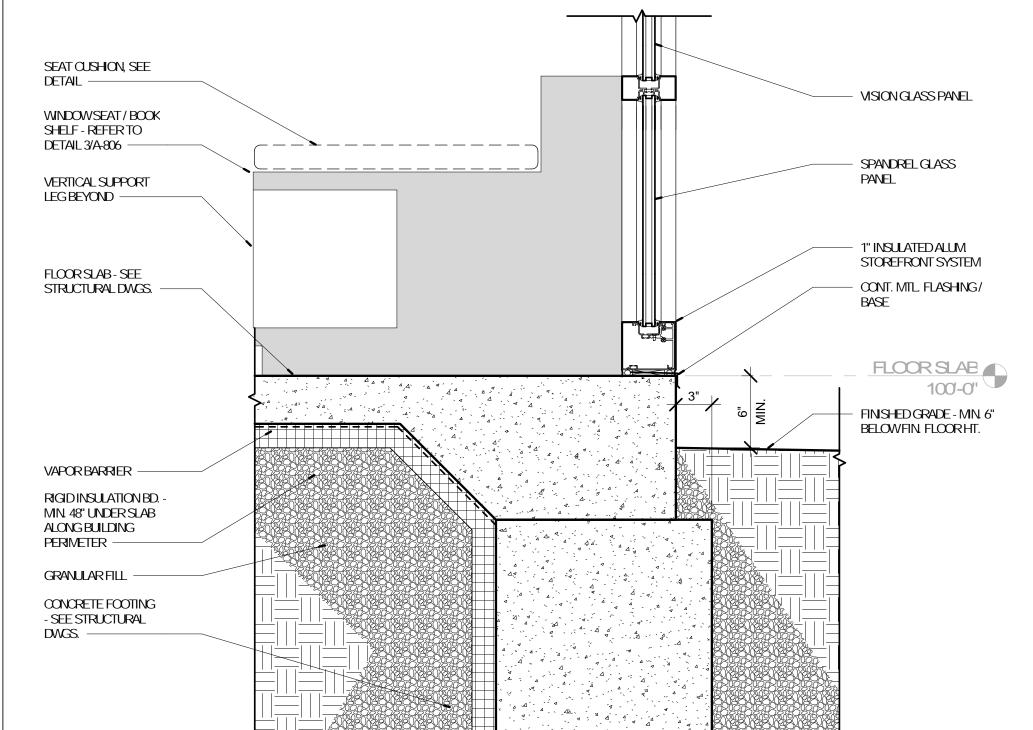
ARCHITECT OF RECORD:

JOHN EDWARD MUELLER MOARCHTECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

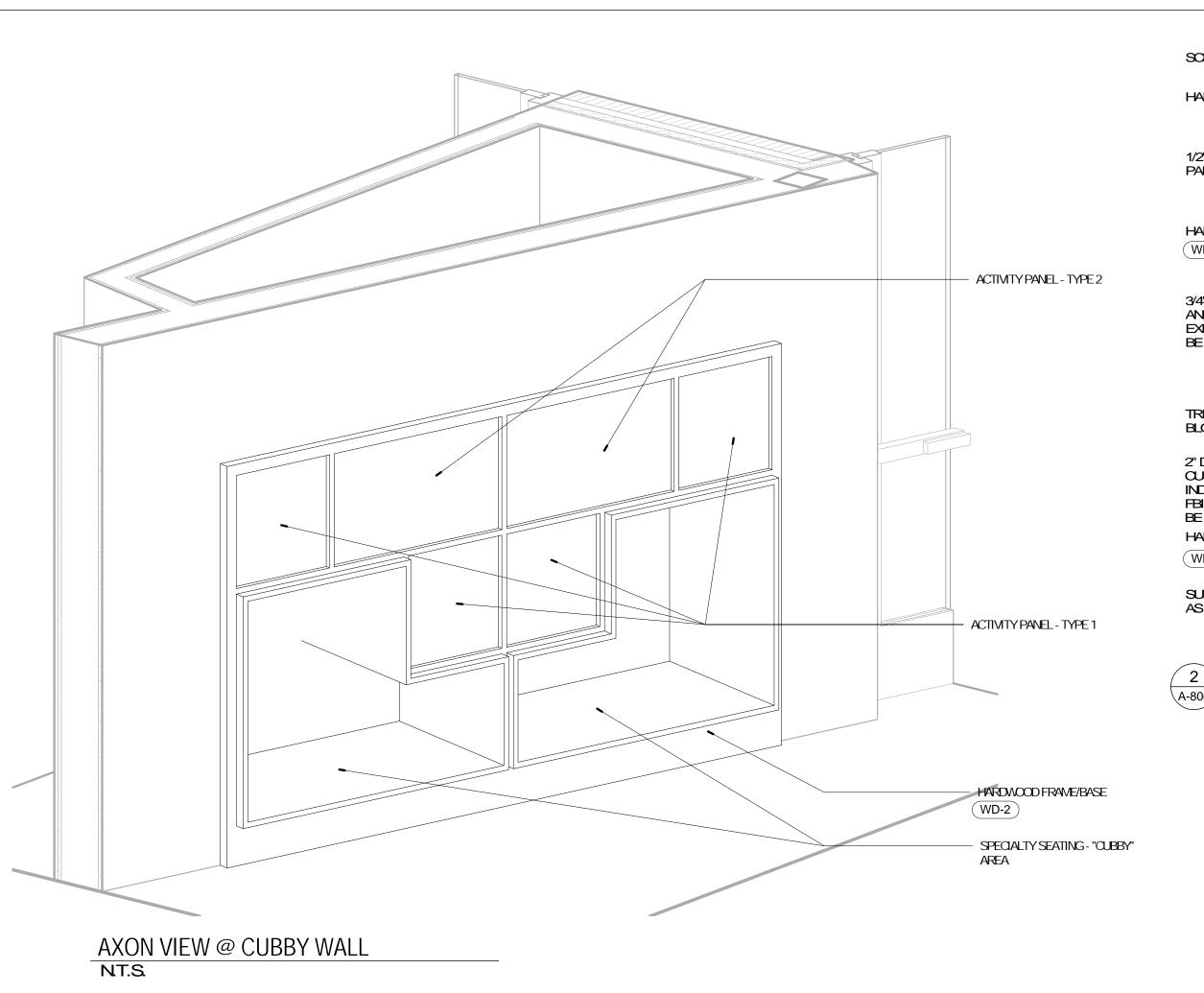
No.	Date	Description
	04/14/17	ISSUED FOR BID

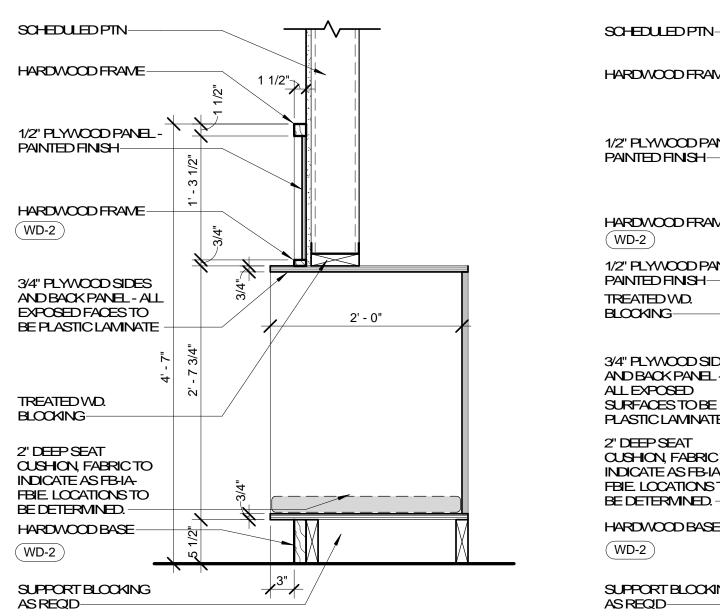
DRAWNBY: SC/SH PROJECT NUMBER: 16-1161.07

SHEETTITLE: DETAILS - BUILDING

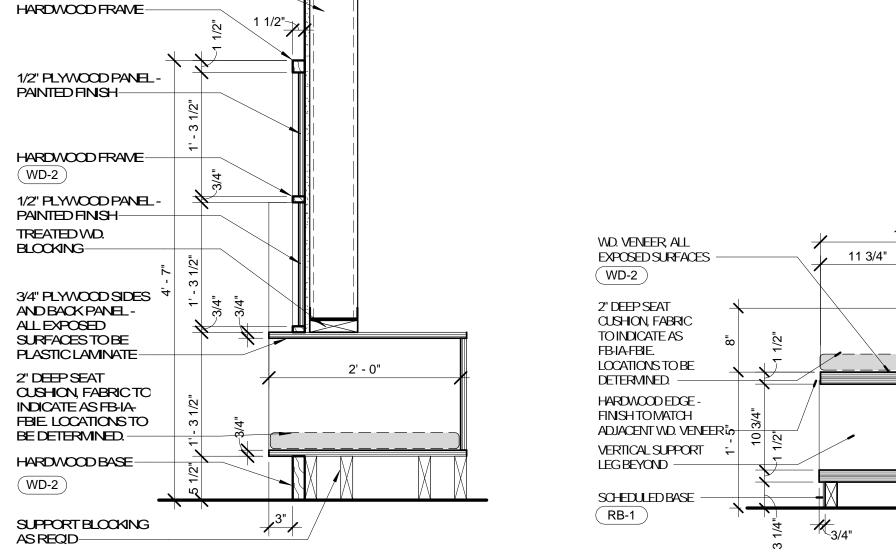






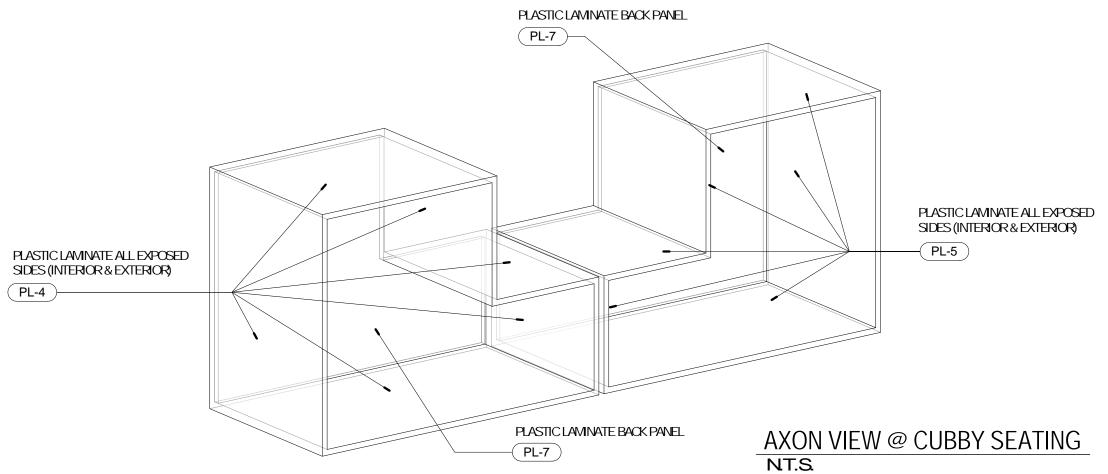


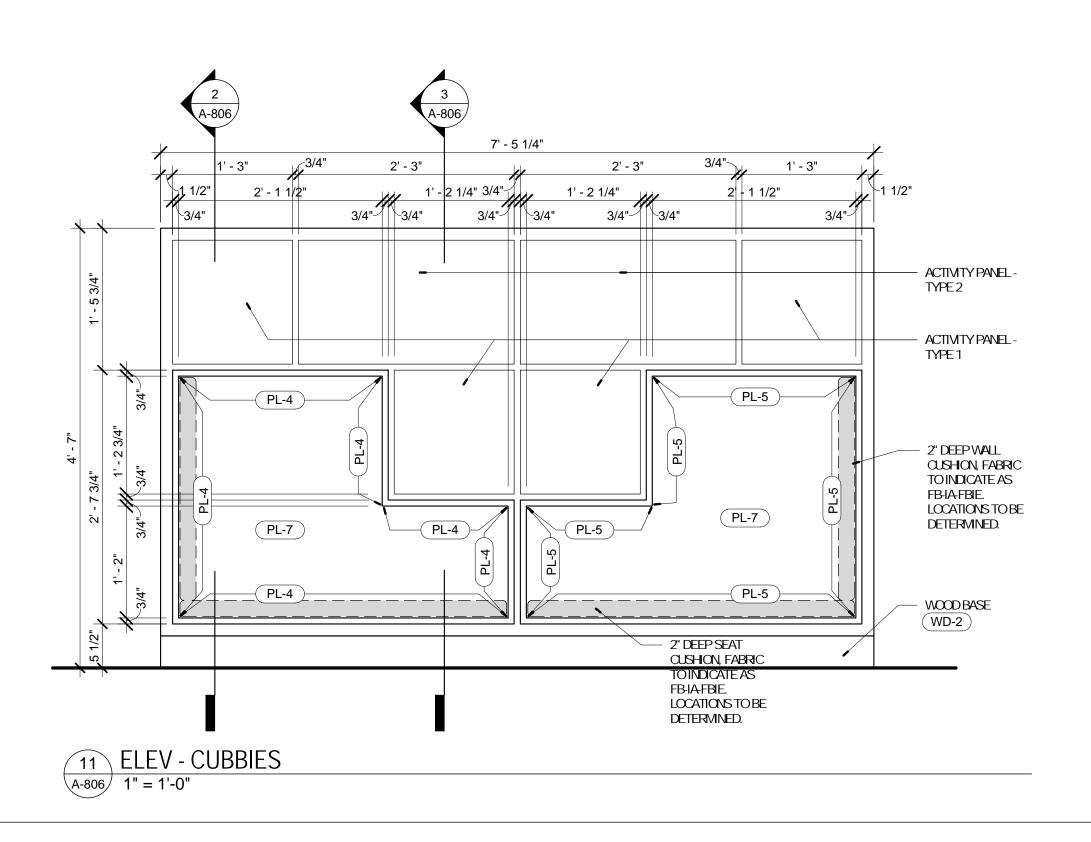
3 DETAIL - CUBBY WALL 2 DETAIL - CUBBY WALL A-806 1" = 1'-0"

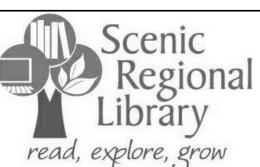


4 DETAIL - WINDOW SEAT
A-806 1" = 1'-0"

11 1/4"







ARCHITECT-OF-RECORD JEMA 3005 LCCUST ST. ST. LCUS, MO63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAIL: SOLARK@JEMASTL.COM

DESIGNAROHTECT SAPP DESIGNASSOCIATES ARCHTECTS 3750 SOUTH FREMONT SPRINGHELD, MO 65804 T (417) 877-9600 F (417) 877-9696 CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHTECTS.COM

CML COOHRAN 530A E INDEPENDENCE DRIVE UNION, MO 63084 CONTACT: DAVE VAN LEER T (636) 584-0540

F (636) 584-0512 E-MAIL DVANLEER@CCCCHRAN.CCCM STRUCTURAL ALPERAUDI, INC. 1804 BORMAN GROLE DRIVE ST. LOUS, MO63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE B-RETT

E-MAIL: STEVE.B-RETT@ALPERAUDI.COM MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTINERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN

E: BOOLEMAN@BRICPARTINERSHP.COM

ARCHITECT OF RECORD:

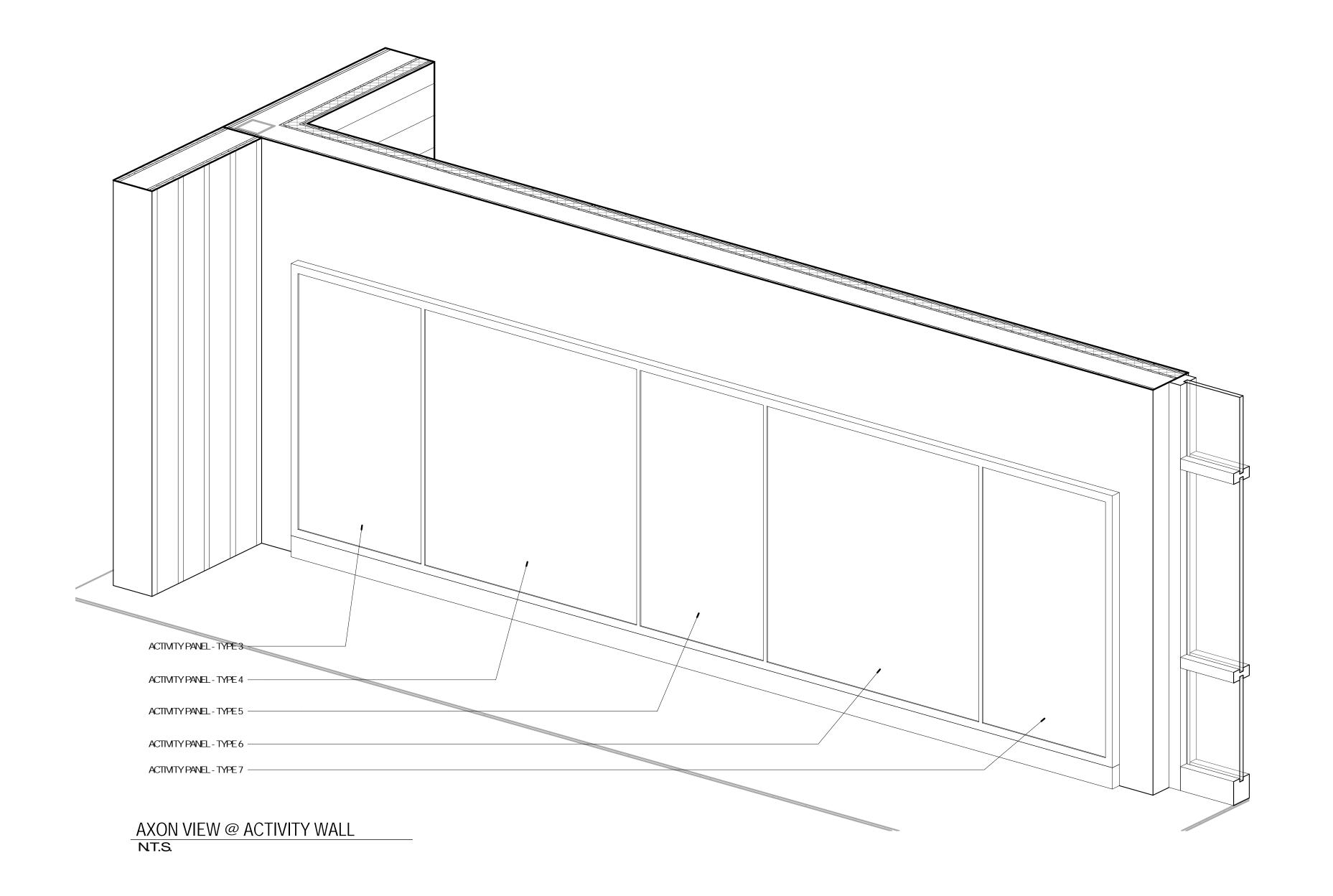
JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

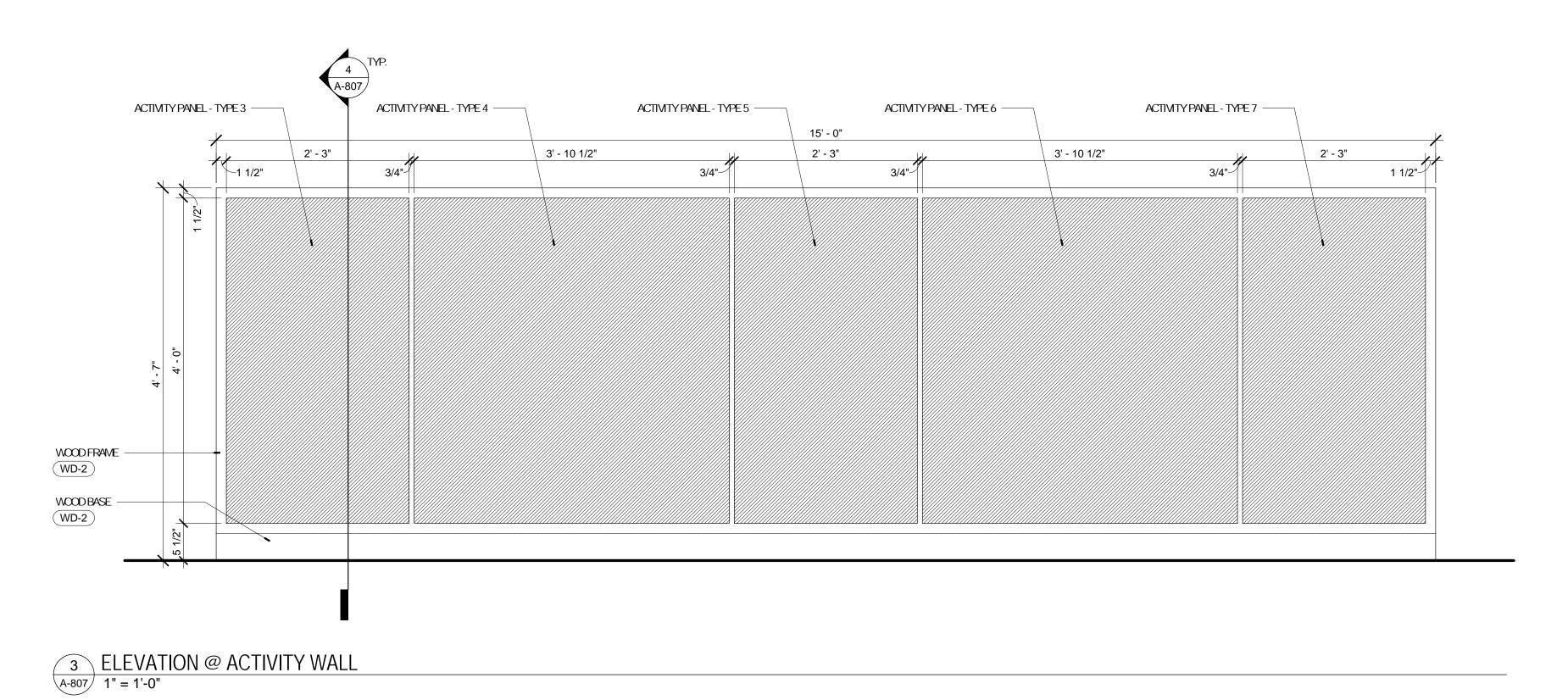
No.	Date	Description
	04/14/17	ISSUED FOR BID

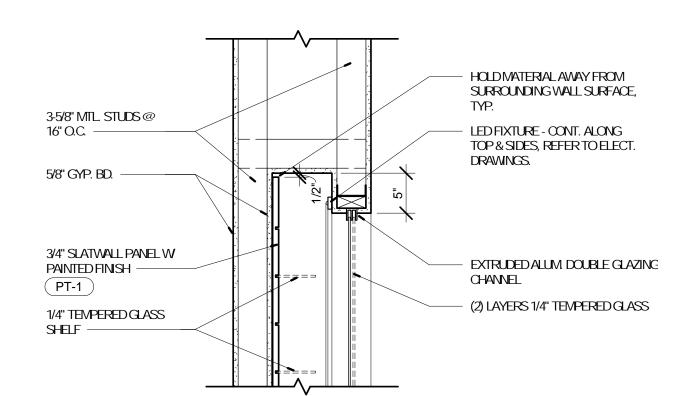
DRAWNBY: SC/SH

PROJECT NUMBER: 16-1161.07

SHEETTITLE: DETAILS

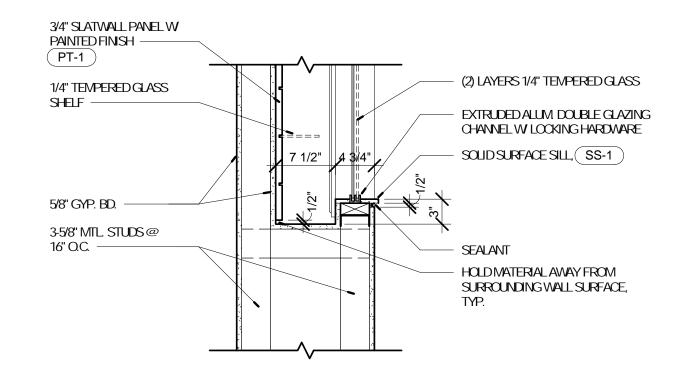




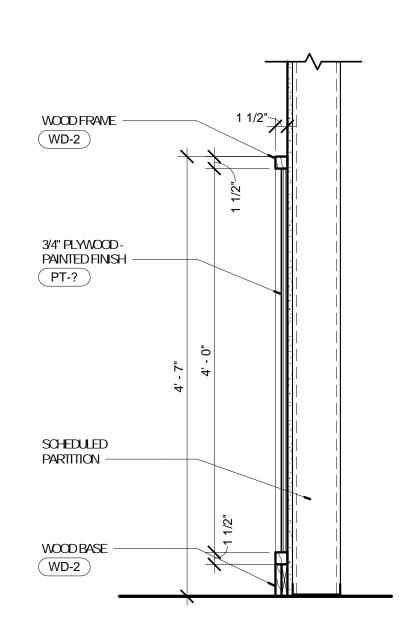


DETAIL @ DISPLAY CABINET

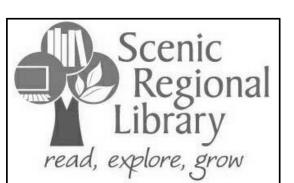
A-807 1" = 1'-0"



2 DETAIL @ DISPLAY CABINET A-807 1" = 1'-0"



4 DETAIL - CUBBY WALL
A-807 1" = 1'-0"



ARCHITECT-OF-RECORD
JEMA
3005 LOOUST ST.
ST. LOUS, MO 63103
T (314) 531-7400
CONTACT: SOOTT CLARK
E-MAIL: SOLARK@JEMASTL.COM

DESIGNARCHTECT
SAPP DESIGNASSOCIATES ARCHTECTS
3750 SOUTH FREMONT
SPRINGHELD, MO 65804 T (417) 877-9600 F (417) 877-9696 CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHTECTS.COM

COOHRAN

530A E INDEPENDENCE DRIVE
UNON, MO 63084
CONTACT: DAVE VAN LEER
T (636) 584-0540 F (636) 584-0512 E-MAL: DVANLEER:@0001-RAN.COM

STRUCTURAL ALPERAUD, INC. 1804 BORMAN GROLE DRIVE ST. LOUS, MO 63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE B-RETT E-MAIL: STEVE.EI-PETT@ALPERAUDI.COM

MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTINERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO63122 T (314) 725-5889
CONTACT: BRUCE COLEMAN
E: BCOLEMAN@BRICPARTINERSHP.COM

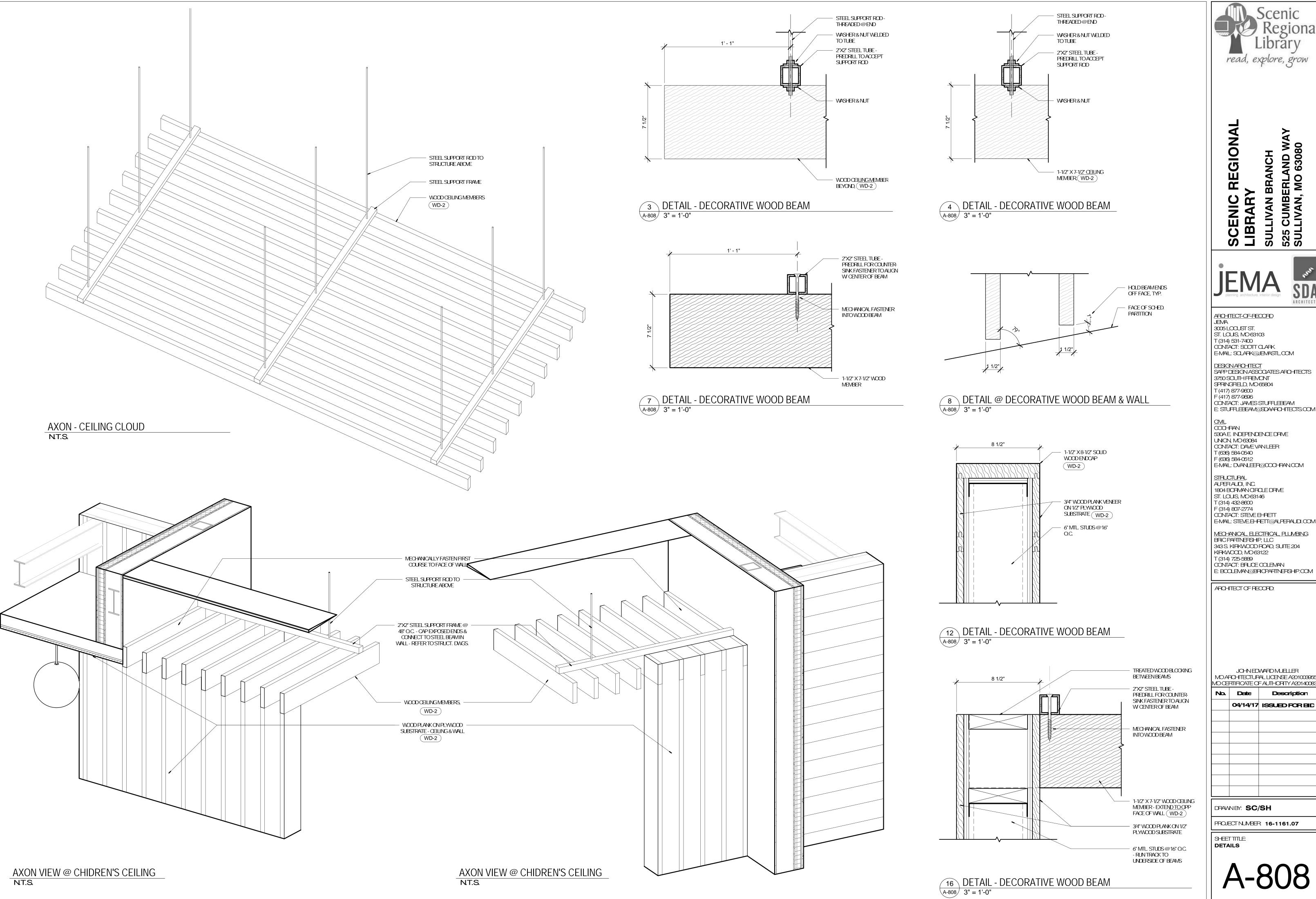
ARCHITECT OF RECORD:

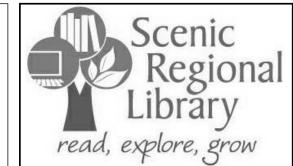
JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWNBY: SC/SH PROJECT NUMBER: 16-1161.07

SHEET TITLE:
DETAILS





E-MAIL: SOLARK@JEMASTLCOM

DESIGNARCHTECT
SAPP DESIGNASSOCIATES ARCHTECTS
3750 SOUTH FREMONT
SPRINGHELD, MO 65804 CONTACT: JAMES STUFFLEBEAM
E: STUFFLEBEAM@SDAAPCHTECTS.COM

CML COOHRAN 530A E INDEPENDENCE DRIVE UNION, MO 63084 CONTACT: DAVE VAN LEER

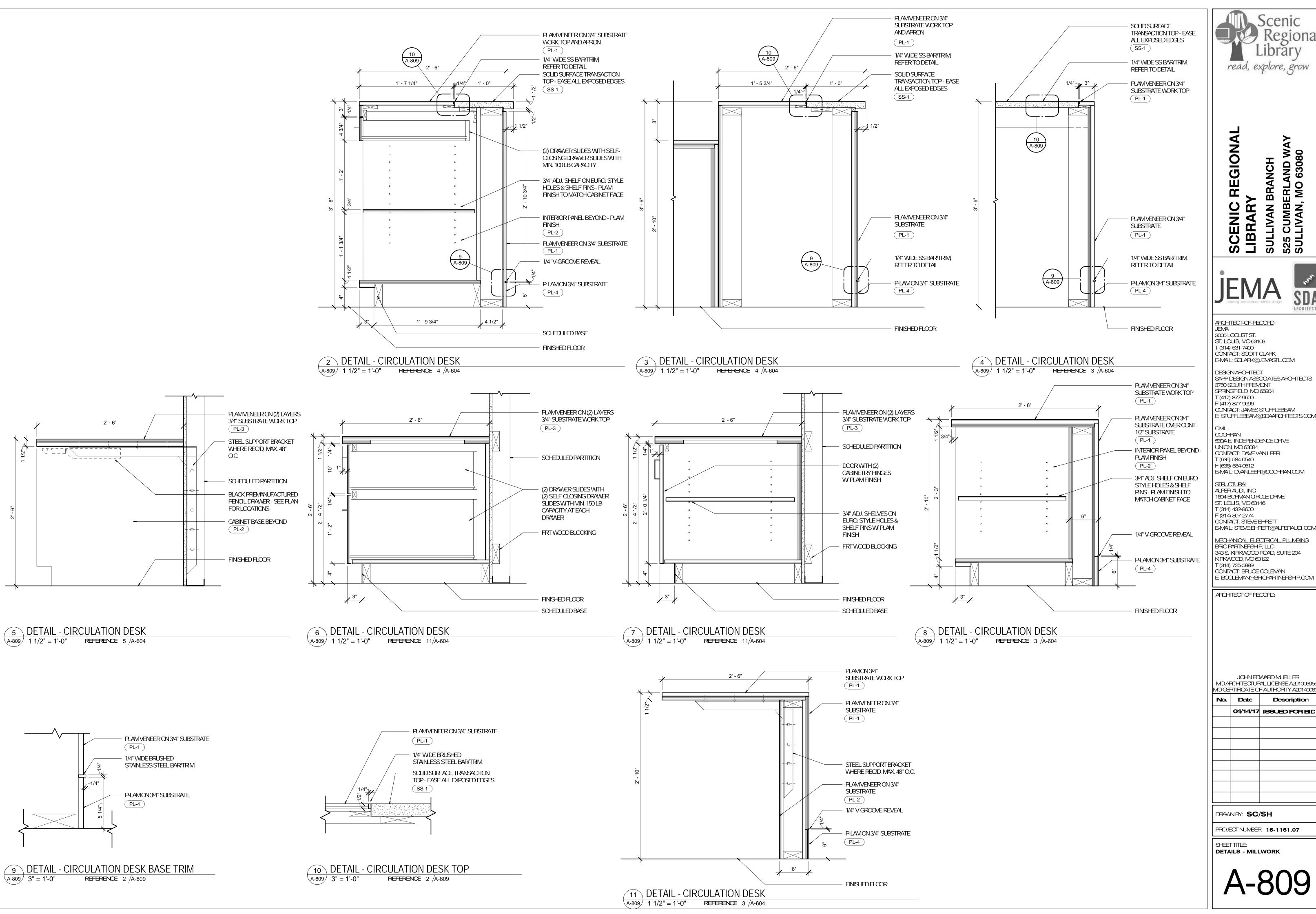
E-MAIL: DVANLEER@0001-RAN.COM

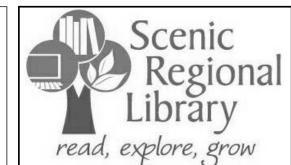
1804 BORMAN GROLE DRIVE ST. LOUIS, MO 63146 T (314) 432-8600 CONTACT: STEVE EL PETT E-MAL: STEVE.EI-PETT@ALPERAUDI.COM

MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTINERSHIP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO 63122

JOHN EDWARD MUELLER MOARCHTECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380 No. Date Description

. —		Description
	04/14/17	ISSUED FOR BID





ARCHITECT-OF-RECORD 3005 LOCUST ST. ST. LOUS, MO63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAL: SOLARK@JEMASTLCOM

DESIGNAROHITECT SAPP DESIGNASSOCIATES ARCHITECTS 3750 SOUTH FREMONT SPRINGFIELD, MO 65804 T (417) 877-9600 F (417) 877-9696 CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHTECTS.COM

CCCCHRAN 530AE INDEPENDENCE DRIVE UNON, MD 63084 CONTACT: DAVE VAN LEER T (636) 584-0540 F (636) 584-0512

> STRUCTURAL ALPERAUDI, INC. 1804 BORWAN GROLE DRIVE ST. LOUS, MD63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE EL RETT

E-MAIL: STEVE.B-RETT@ALPERAUDI.COM MECHANICAL, BLECTRICAL, PLUMBING BRIC PARTINERSHP, LLC 343 S. KIRKWOOD POAD, SUITE 204 KIRKWOOD, MO63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN

ARCHITECT OF RECORD:

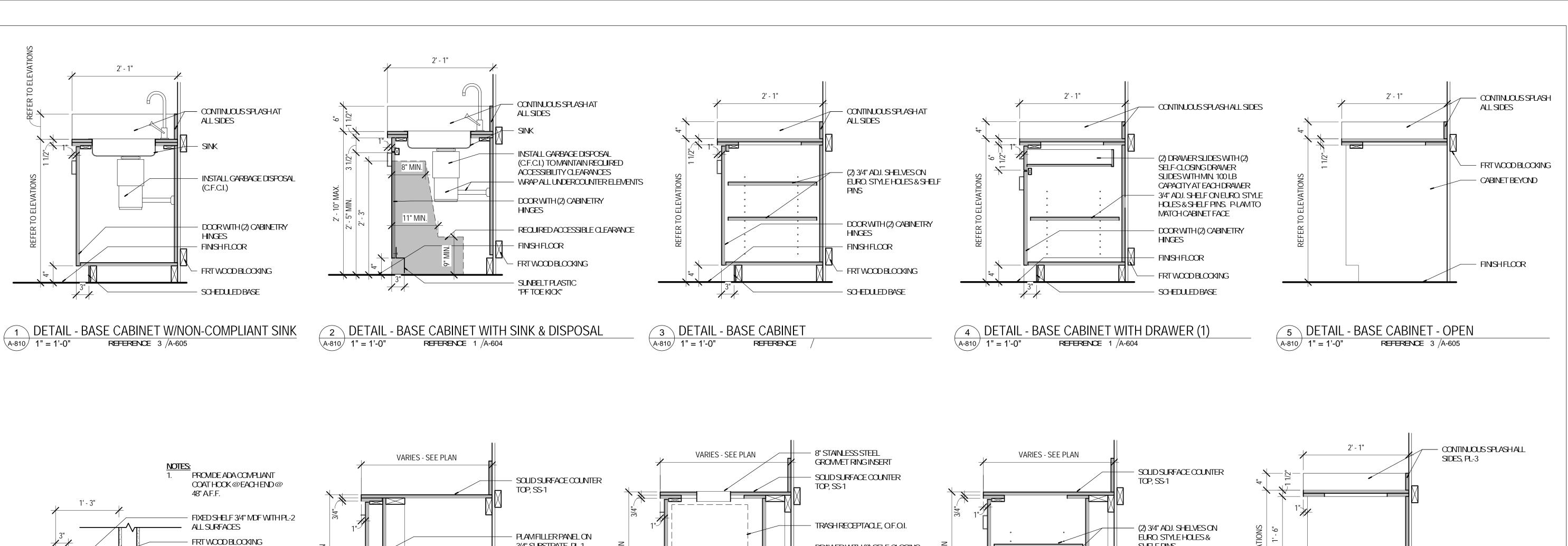
JOHN EDWARD MUELLER MOAPOHTECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

No.	Date	Description
	04/14/17	ISSUED FOR BID

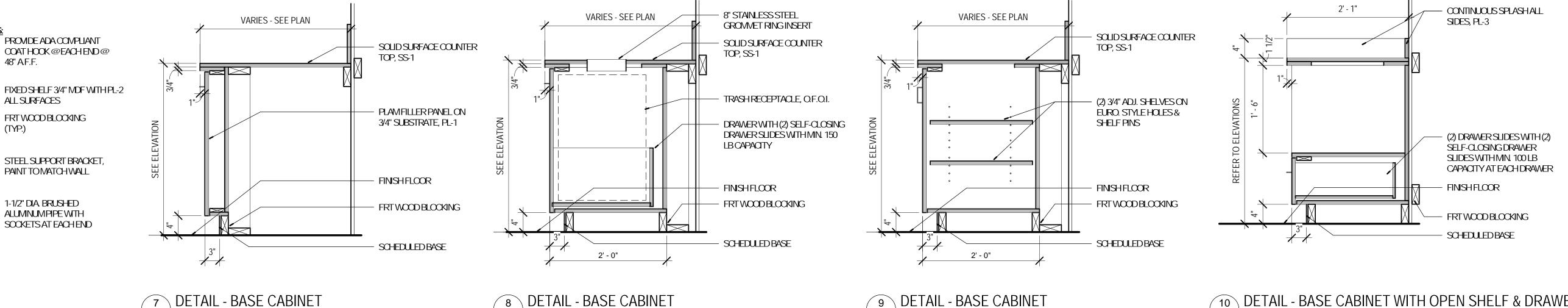
DRAWNBY: SC/SH

PROJECT NUMBER: 16-1161.07

DETAILS - MILLWORK

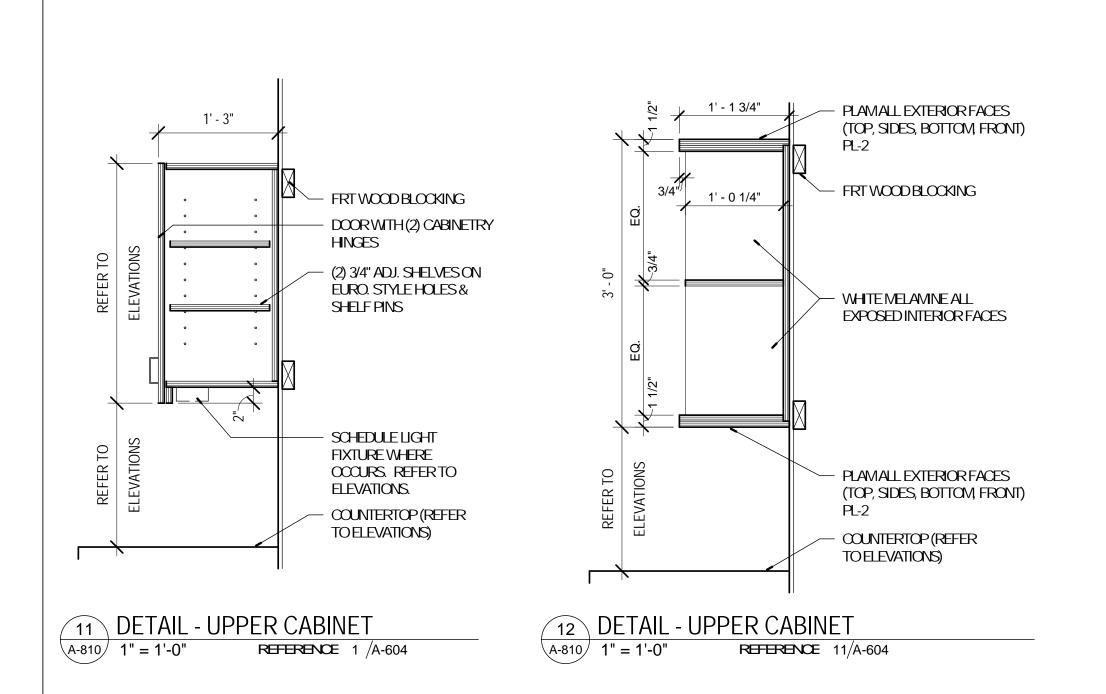


REFERENCE 12/A-605



A-810 / 1" = 1'-0"

REFERENCE 12/A-605



REFERENCE 12/A-605

PAINT TO MATCH WALL

1-1/2" DIA BRUSHED

SOCKETS AT EACH END

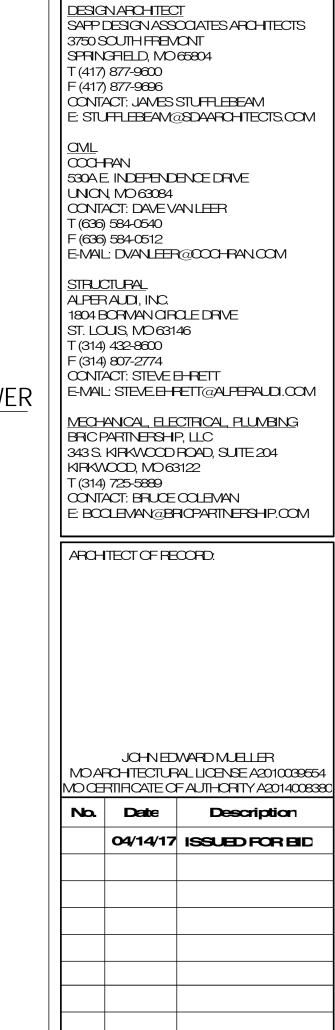
6 DETAIL - COAT ROD & SHELF

REFERENCE 3 /A-605

A-810 1" = 1'-0"

ALUMNUMPIPE WITH

10 DETAIL - BASE CABINET WITH OPEN SHELF & DRAWER REFERENCE 1 /A-604



ARCHITECT-OF-RECORD

CONTACT: SCOTT CLARK

E-MAL: SOLARK@JEMASTLCOM

3005 LOCUST ST. ST. LOUS, MO63103

T (314) 531-7400

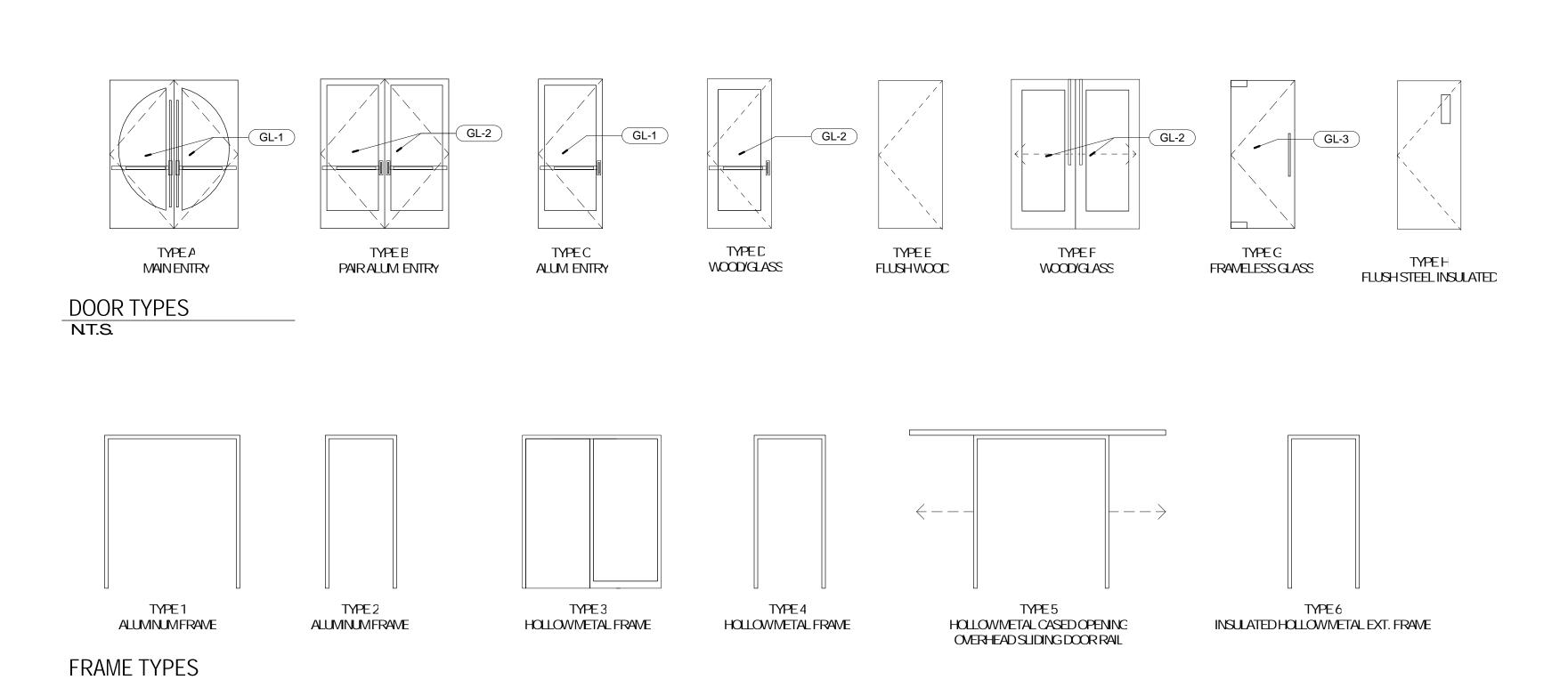
read, explore, grow

PROJECT NUMBER: 16-1161.07

DRAWNBY: SC/SH

DETAILS - MILLWORK

SHEETTITLE:



NT.S.

NT.S.

DOOR SCHEDULE										
DOOR			DOOR	DOOR	DOOR	DOOR FRAME			FIRE	
NUMBER	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	TYPE	FINISH	HDWR. GROUP	RATING	REMARKS
700A	PR 3' - 0"	7' - 0"	1 3/4"	Α	ALUM	1	PRE-FINISHED	1.0 AO		CUSTOM COLOR TO MATCH SAMPLE, SEE SPECS.
700R	PR 3' - 0"	7' - 0"	1 3/4"	В	ALUM	1	PRE-FINISHED	4.0 AO		OGSTON GOLON TO WINTOTTS WIN EL, SEL SI EGS.
701	3' - 0"	7' - 0"	1 3/4"	D	WD-1/GL	3	PT-3	6.0		
702	3' - 0"	7' - 0"	1 3/4"	E	WD-1	4	PT-3	13.0		SEE NOTE 1 BELOW, INSTALL ON RESTROOM SIDE
703	3' - 0"	7' - 0"	1 3/4"	Е	WD-1	4	PT-3	13.0		SEE NOTE 1 BELOW, INSTALL ON RESTROOM SIDE
706	3' - 6"	7' - 0"	1 3/4"	Е	WD-1	4	PT-3	7.0	45 MINUTE	
708	3' - 0"	7' - 0"	1 3/4"	С	ALUM	2	PRE-FINISHED	2.0		
709	3' - 0"	7' - 0"	1 3/4"	С	ALUM	2	PRE-FINISHED	2.0		
709A	PR 3' - 0"	6' - 8"	1 3/4"	F	WD-1/GL	5	PT-3	5.0		PAIR OF SLIDERS ON RAIL
709B	3' - 0"	7' - 0"	1 3/4"	С	ALUM	2	PRE-FINISHED	2.0		
713	3' - 0"	7' - 0"	1 3/4"	Е	WD-1	4	PT-3	10.0	45 MINUTE	
714	3' - 0"	7' - 0"	1 3/4"	Е	WD-1	4	PT-3	11.0		
715	3' - 0"	7' - 0"	1/2"	G	GL	N/A	N/A	14.0		FLOOR AND HEAD PIVOTS, SEE SPECS.
716	3' - 0"	7' - 0"	1/2"	G	GL	N/A	N/A	14.0		FLOOR AND HEAD PIVOTS, SEE SPECS.
717	3' - 0"	7' - 0"	1 3/4"	Е	WD-1	4	PT-3	9.0		
719	3' - 0"	7' - 0"	1 3/4"	Н	MTL	6	PT-3	3.0		
720	3' - 0"	7' - 0"	1 3/4"	Е	WD-1	4	PT-3	9.0		
721	3' - 0"	7' - 0"	1 3/4"	E	WD-1	4	PT-3	12.0		

DOOR HARDWARE NOTES:

1. PROMDE FOOT OPERATED DOOR OPENER, STEPNPULL, IN SILVER FINISH FOR THIS DOOR

ENA SDA ARCHITECTS

ARCHTECT-OF-RECORD
JEWA
3005 LOCUST ST.
ST. LOUS, MO 63103
T (314) 531-7400
CONTACT: SCOTT CLARK
E-MAIL: SCLARK@JEWASTL.COM

DESIGNAROHTECT
SAPP DESIGNASSOCIATES ARCHTECTS
3750 SOUTH FREMONT
SPRINGFIELD, MO 65804
T (417) 877-9600
F (417) 877-9696
CONTACT: JAMES STUFFLEBEAM
E: STUFFLEBEAM@SDAARCHTECTS.COM

CML
COO-RAN
530A E INDEPENDENCE DRIVE
UNION, MO 63084
CONTACT: DAVE VAN LEER
T (636) 584-0540
F (636) 584-0512
E-MAIL: DVAN LEER @COO-RAN COM

SIRUCTURAL
ALPER AUDI, INC.
1804 BORMAN OROLE DRIVE
ST. LOUS, MO 63146
T (314) 432-8600
F (314) 807-2774
CONTACT: STEVE B-RETT
E-MAIL: STEVE B-RETT@ALPERAUDI.COM

MECHANICAL, BLECTRICAL, PLUMBING
BRIC PARTINERSHIP, LLC
343 S. KIRKWOOD ROAD, SUITE 204
KIRKWOOD, MO 63122
T (314) 725-5889
CONTACT: BRUCE COLEMAN
E: BOOLEMAN@BRICPARTINERSHIP.COM

ARCHITECT OF RECORD:

JOHNEDWARD MUELLER
MO ARCHITECTURAL LICENSE A2010039554
MO CERTIFICATE OF AUTHORITY A2014008380

No.	Date	Description
	04/14/17	ISSUED FOR BID

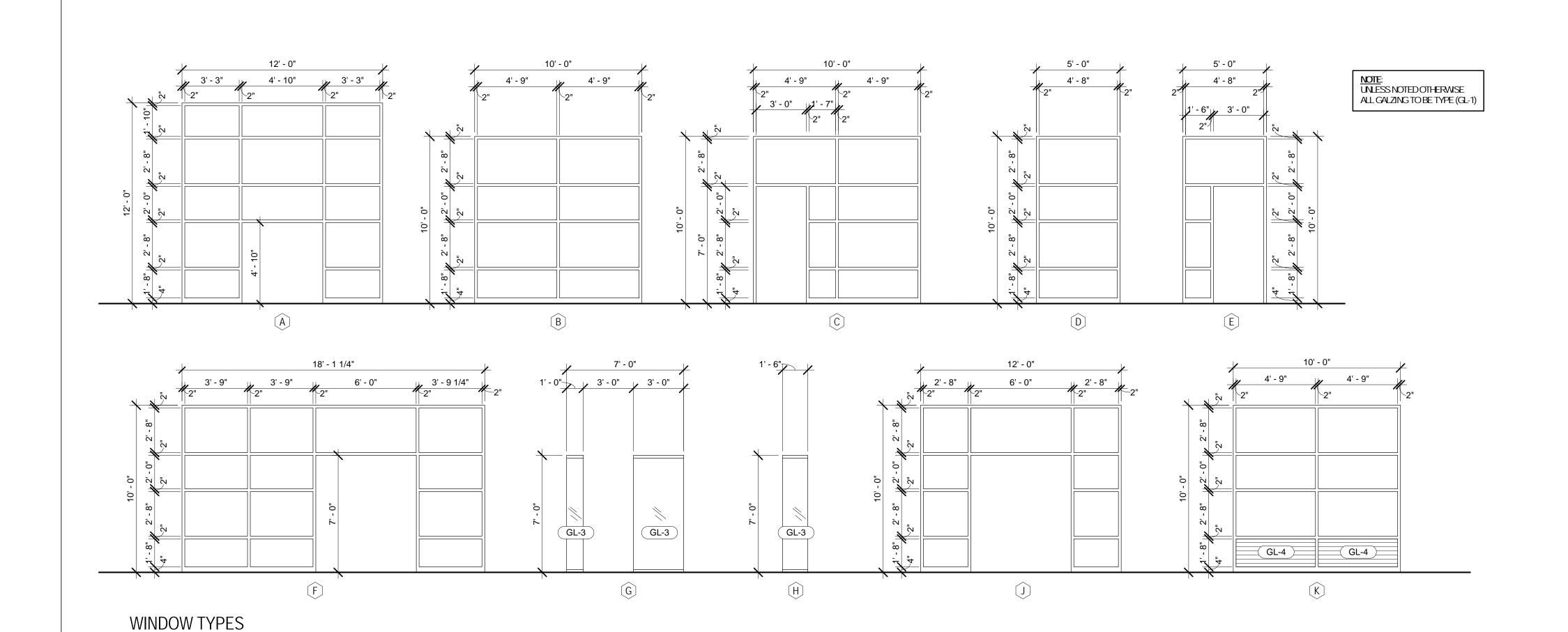
DRAWNBY: SC/SH

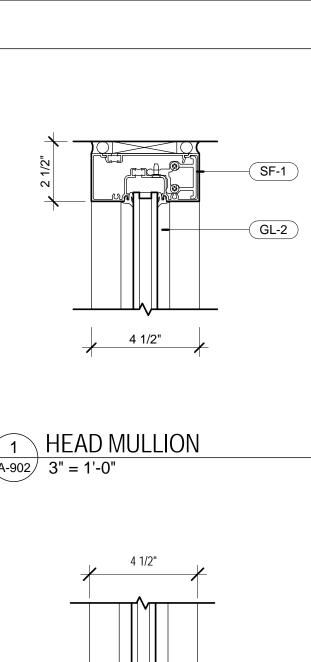
PROJECTNUMBER: 16-1161.07

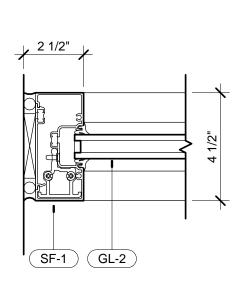
SHEETTITLE

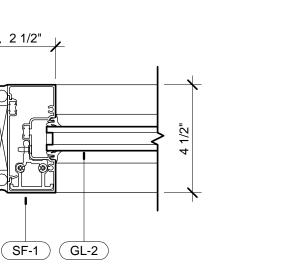
DOOR SCHEDULE / DOOR,
FRAME AND WINDOW TYPES

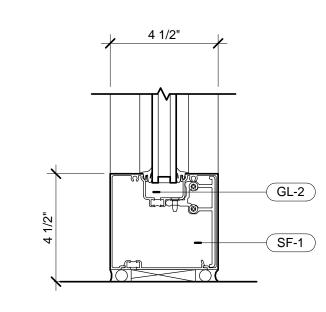
A-901

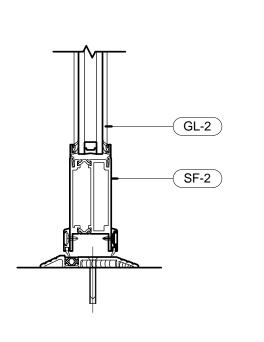


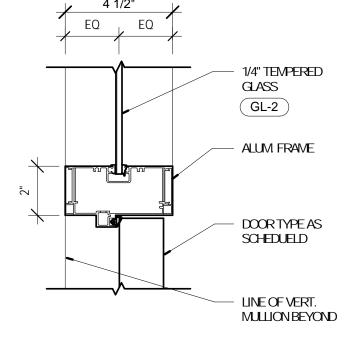


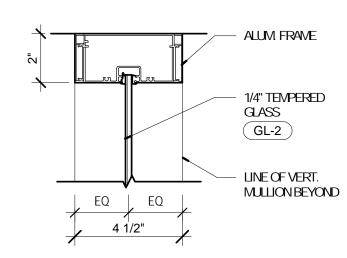


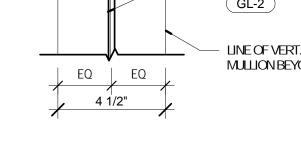














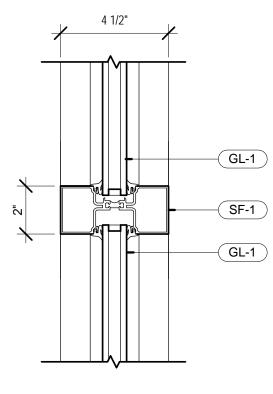


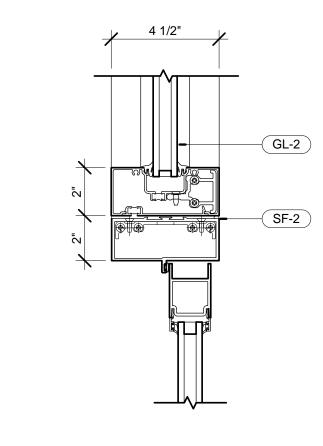


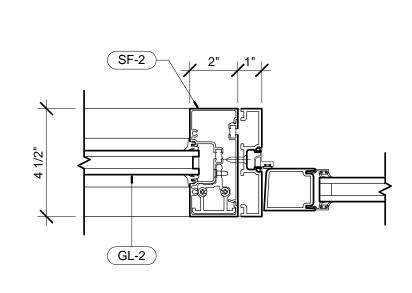
4 DOOR SILL A-902 3" = 1'-0"

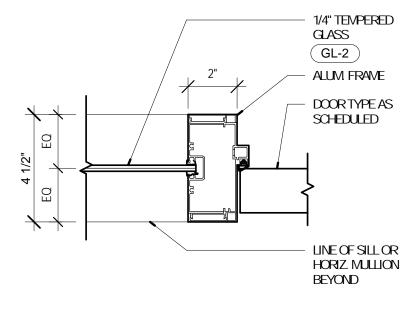
5 MULLION / DOOR JAMB A-902 3" = 1'-0"

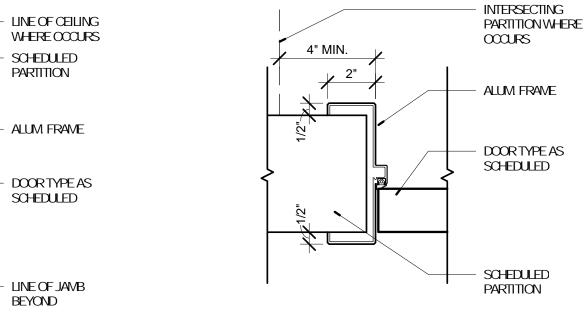
6 MULLION / DOOR JAMB A-902 3" = 1'-0"











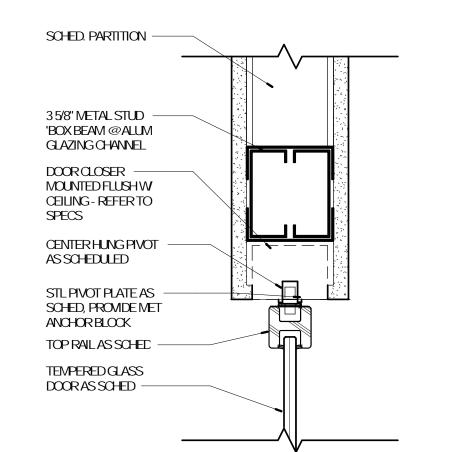


11 DOOR HEAD (TYP) A-902 3" = 1'-0"

DOOR JAMB (TYP) A-902 3" = 1'-0"

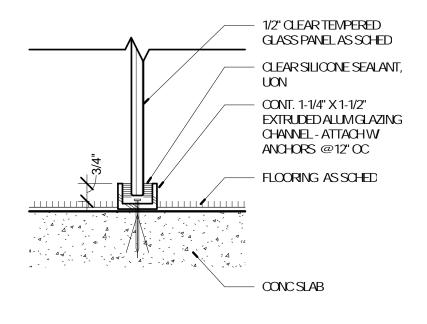


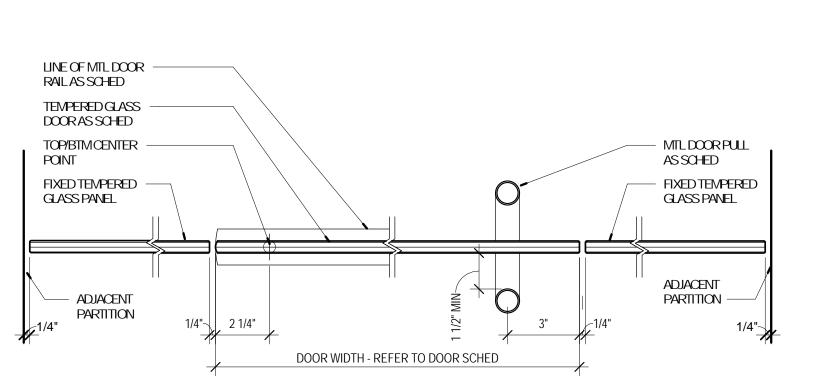




9 INNER MULLION / DOOR JAMB

A-902 3" = 1'-0"





13 INNER MULLION A-902 3" = 1'-0"

(GL-2)

15 DETAIL @ GLASS DOOR HEAD A-902 3" = 1'-0"

16 DETAIL@ GLASS PANEL SILL A-902 3" = 1'-0"

JAMB DETAIL @ TEMPERED GLASS DOOR A-902 3" = 1'-0"

ARCHITECT OF RECORD:

ARCHITECT-OF-RECORD
JEMA
3005 LOOUST ST.
ST. LOUS, MO 63103
T (314) 531-7400
CONTACT: SOOTT CLARK
E-MAIL: SOLARK@JEMASTL.COM

DESIGNARCHITECT
SAPP DESIGNASSOCIATES ARCHITECTS
3750 SOUTH FREMONT
SPRINGHELD, MO 65804

T (417) 877-9600 F (417) 877-9696 CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHTECTS.COM

CIMIL
COOL-RAN
530A E INDEPENDENCE DRIVE
UNION, MO 63084
CONTACT: DAVE VAN LEER
T (636) 584-0540

1804 BORMAN GROLE DRIVE

CONTACT: STEVE EL RETT

BRICPARINERSHP, LLC

KIRKWOOD, MO63122

CONTACT: BRUCE COLEMAN

T (314) 725-5889

E-MAIL DVANLEER@0000-RANCOM

E-MAIL: STEVE.B-RETT@ALPERAUDI.COM

MECHANICAL, ELECTRICAL, PLUMBING

E: BOOLEMAN@BRICPARTINERSHP.COM

343 S. KIRKWOOD ROAD, SUITE 204

F (636) 584-0512

STRUCTURAL

ALPERAUDI, INC.

T (314) 432-8600

F (314) 807-2774

ST. LOUS, MO63146

JOHN EDWARD MUELLER MOAPOHTECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

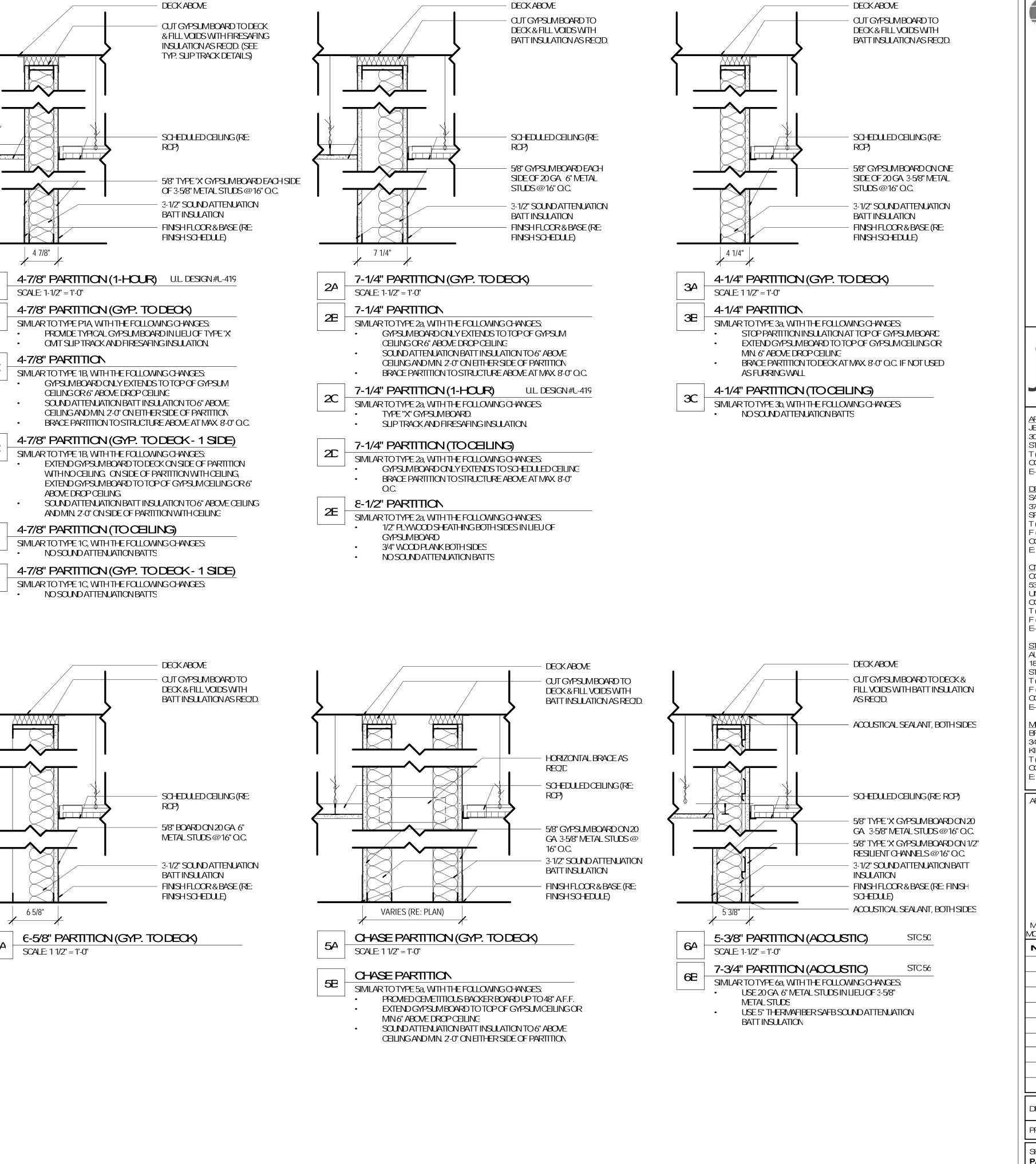
read, explore, grow

No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWNBY: SC/SH

PROJECT NUMBER: 16-1161.07

SHEETTITLE: FRAME DETAILS



Scenic Regional Library read, explore, grow

ENIC REGIONAL
RARY
IVAN BRANCH
SUMBERLAND WAY
IVAN, MO 63080

SDA ARCHITECT

ARCHTECT-OF-RECORD
JEMA
3005 LOCUST ST.
ST. LOUIS, MO 63103
T (314) 531-7400
CONTACT: SCOTT CLARK
E-MAIL: SCLARK@JEMASTL.COM

DESIGNARCHTECT
SAPP DESIGNASSOCIATES ARCHTECTS
3750 SOUTH FREMONT
SPRINGFIELD, MO 65804
T (417) 877-9600
F (417) 877-9696
CONTACT: JAWES STUFFLEBEAM
E: STUFFLEBEAM@SDAARCHTECTS.COM

COOL-RAN
530A E INDEPENDENCE DRIVE
UNON, MO 63084
CONTACT: DAVE VAN LEER
T (636) 584-0540
F (636) 584-0512
E-MAIL: DVAN LEER @COOL-RAN COM

STRUCTURAL
ALPERAUDI, INC.
1804 BORMAN GROLE DRIVE
ST. LOUIS, MO 63146
T (314) 432-8600
F (314) 807-2774
CONTACT: STEVE B-RETT@ALPERAUDI.COM

MECHANICAL, BLECTRICAL, PLUMBING BRIC PARTINERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO 63122 T (314) 725-5889 CONTACT: BRUCE COLEWAN E: BOOLEWAN@BRICPARTINERSHP.COM

ARCHITECT OF RECORD:

JOHNEDWARD MUELLER
MO ARCHTECTURAL LICENSE A2010039554
MO CERTIRICATE OF AUTHORITY A2014008380

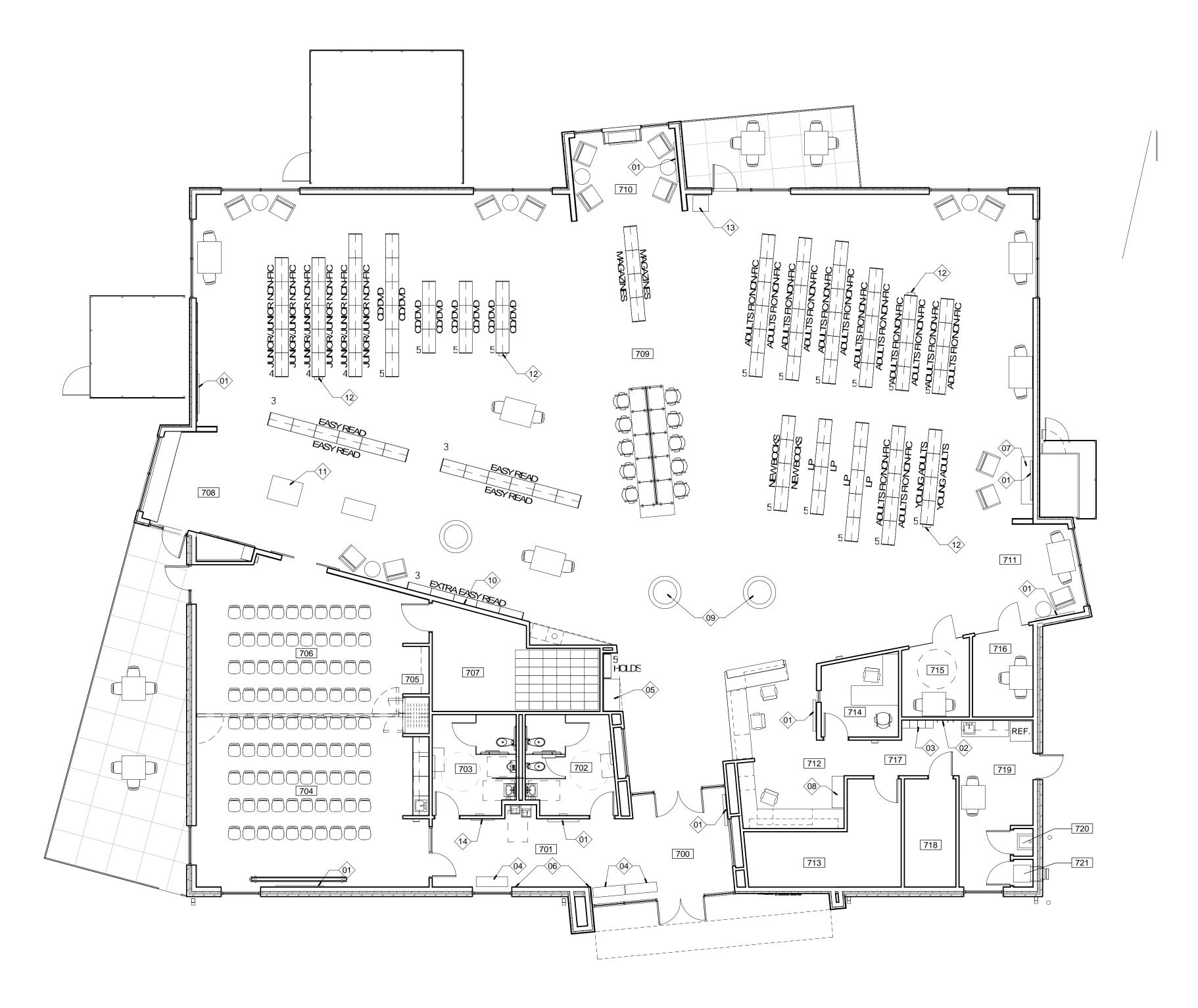
No.	Date	Description
	04/14/17	ISSUED FOR BID

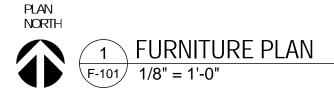
DRAWNBY: SC/SH

PROJECTNUMBER: 16-1161.07

SHEETTITLE:
PARTITION TYPES

A-903

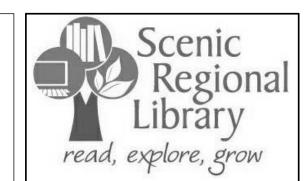




GENERAL NOTES - FURNITURE PLAN

ALL LIBRARY SHELMING INDICATED IS OFOI, SHOWN FOR REFERENCE.
 ALL FURNITURE INDICATED IS OFOI, SHOWN FOR REFERENCE.
 ALL APPLIANCES INDICATED ARE OFOI, SHOWN FOR REFERENCE.

	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, OFO
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.
13	NEWSPAPER DISPLAY, OFOI.
14	LOCKING BULLETING BOARD CABINET, CFCI. REFER TO SPECS.





ARCHITECT-OF-RECORD
JEMA
3005 LOOUST ST.
ST. LOUS, MO 63103
T (314) 531-7400
CONTACT: SOOTT CLARK
E-MAIL: SOLARK@JEMASTL.COM

DESIGNAROHITECT
SAPP DESIGNASSOCIATES APOHTECTS
3750 SOUTH FREMONT
SPRINGRIELD, MO 65804
T (417) 877-9600
F (417) 877-9696
CONTACT: JAMES STUFFLEBEAM
E: STUFFLEBEAM@SDAAROHITECTS.COM

CIML
COOHRAN
530A E INDEPENDENCE DRIVE
UNION, MO 63084
CONTACT: DAVE VAN LEER
T (636) 584-0540
F (636) 584-0512
E-MAIL: DVAN LEER @COOHRAN COM

STRUCTURAL ALPERAUD, INC. 1804 BORWAN GROLE DRIVE ST. LOUS, MO 63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE EL PETT E-MAIL: STEVE. EI-PETT@ALPERAUDI.COM

MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTINEPSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN

E: BCOLEMAN@BRICPARTINERSHP.COM

ARCHITECT OF RECORD:

JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039654

ROOM SCHEDULE					
NUMBER					
NUMBER	NAME				
	1				
700	VESTIBULE				
701	CORRIDOR				
702	WOMENS				
703	MENS				
704	MEETING ROOM A				
705	COATS				
706	MEETING ROOM B				
707	STORAGE				
708	CHILDRENS AREA				
709	CIRCULATION				
710	ADULT AREA				
711	TEEN AREA				
712	WORK ROOM				
713	STORAGE				
714	OFFICE				
715	STUDY				
716	STUDY				
717	CORRIDOR				
718	MECH/ ELEC				
719	BREAK ROOM				
720	JANITORS CLOSET				
721	DROP				

			FAUTHORITY A201400838
SCHEDULE	No.	Date	Description
NAME		04/14/17	ISSUED FOR BID
BULE			
DOR			
NS			
NG ROOM A			
5			
NG ROOM B			
\GE			
RENS AREA			
LATION			
AREA	DRAW	NBY: SC/	/SH
AREA			
DOOM			

PROJECT NUMBER: 16-1161.07

SHEETTITLE: FURNITURE PLAN - FIRST FLOOR

DESIGN CRITERIA

A. CODES AND STANDARDS:

2009 INTERNATIONAL BUILDING CODE (I.B.C.) BUILDING OCCUPANCY CATEGORY: II

B. DESIGN LOADS:

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 = 42.9 / S1 = 14.4% SITE CLASS: C SPECTRAL RESPONSE COEFFICIENTS: Sds = 34.3% / Sd1 = 15.9% 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 = 0.114 DESIGN BASE SHEAR: V = 35K 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 SCI ENGINEERING, INC. DATED FEBRUARY

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 NATURAL LEAN CLAY, REMEDIATED EXISTING FILL, OR REMEDIATED EXPANSIVE CLAY SOILS CAPABLE OF SUSTAINING A NET BEARING PRESSURE OF 3000 PSF AND 2500 PSF FOR COLUMNS AND CONTINUOUS FOOTINGS, RESPECTIVELY, 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

FOUNDATION / RETAINING WALLS:

1. ACTIVE DESIGN PRESSURE IS EQUAL TO AN EQUIVALENT FLUID PRESSURE OF 50 PCF (COHESIVE SOIL).

2. AT-REST DESIGN PRESSURE IS EQUAL TO AN EQUIVALENT FLUID PRESSURE OF 70 PCF (COHESIVE SOIL).

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:

 CONCRETE SHALL CONFORM WITH THE REQUIREMENTS SET FORTH IN A.C.I. 301 AND SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH AND DENSITY. IN ACCORDANCE WITH THE FOLLOWING:

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)
4	145	0.48	564	1	4	-	-
4	145	0.48	564	3/4	4	-	-
4	145	0.40	564	3/4	4	6	AE, WR
4	145	0.50	564	1	4	N	-
4	145	0.40	564	3/4	4	6	-
	4 4 4	4 145 4 145 4 145 4 145	4 145 0.48 4 145 0.48 4 145 0.40 4 145 0.50	4 145 0.48 564 4 145 0.48 564 4 145 0.40 564 4 145 0.50 564	4 145 0.48 564 1 4 145 0.48 564 3/4 4 145 0.40 564 3/4 4 145 0.50 564 1	4 145 0.48 564 1 4 4 145 0.48 564 3/4 4 4 145 0.40 564 3/4 4 4 145 0.50 564 1 4	4 145 0.48 564 1 4 - 4 145 0.48 564 3/4 4 - 4 145 0.40 564 3/4 4 6 4 145 0.50 564 1 4 N

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

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

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.

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.

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

			S	STANDA	RD TEN	SION LA	AP SPLIC	CE, GRA	ADE 60				
			С	LASS A	and B L	AP SPL	ICE LEN	GTH (IN	ICHES)				
			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	,	4	E	3	,	4	E	3	,	4	F	В
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

"TOP BARS" ARE DEFINED AS ANY BAR WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR. SEE NOTE 4 IN TABLE NOTES.

		TABLE NOTES:			
COMPRESSION	LAP SCHEDULE				
LAP LENGT	TH (INCHES)	1. TABLES ARE BASED A.C.I. 318. WHERE CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED IS AT LEAST 2 BAR			
f'c = 3,000 P.S.	I. OR GREATER	DIAMETERS AND THE CLEAR COVER AT LEAST 1 BAR DIAMETER,			
BAR SIZE 30 BAR DIA.		USE CASE 1. USE CASE 2 FOR OTHER BAR ARRANGEMENTS.			
#3 12		2. ALL SPLICES TO BE CLASS "B" TENSION SPLICE UNLESS			
#4	15	OTHERWISE NOTED.			
#5 19		3. SPLICE PLAIN WELDED WIRE FABRIC BY LAPPING ONE FULL			
#6	22	MESH SPACE PLUS 2 INCHES.			
#7	26	4. FOR TOP BARS, MULTIPLY LENGTHS IN TABLE BY 1.3.			
#8	29				
#9 33 #10 37		5. FOR EPOXY COATED REINFORCEMENT, MULTIPLY LENGTHS IN TABLE BY 1.5 FOR COVER LESS THAN 3db OR CLEAR SPACING			
		LESS THAN 6db, MULTIPLY LENGTHS BY 1.2 FOR ALL OTHER			
#11	41	EPOXY 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 LATEST EDITION OF THE A.C.I. DETAILING MANUAL.

6. ALL REINFORCING SHALL BE SUPPORTED IN FORMS, SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER, IN ACCORDANCE WITH C.R.S.I. "REINFORCING BAR 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.

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 @

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 (Fv=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

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 VOR[] = 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

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

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.



AND W. 63080

015

525 CUMBE SULLIVAN,

ARCHITECT-OF-RECORD

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) 877-9600

F (417) 877-9696 CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHITECTS.COM 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 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

ENGINEER OF RECORD:

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: 16024

SHEET TITLE: **GENERAL NOTES**

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 SUBFRAMING 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
- "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)
 "HUS-H SCREW ANCHOR" BY HILTI, INC. (ICC-ES ESR-2369)
- E. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE ICC-ES REPORT AND AS PRESCRIBED BY THE APPLICABLE BUILDING CODE.

POST-INSTALLED ADHESIVE ANCHORS:

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

FREE INJECTION.

- 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.

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
- 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 INSPECTED PER THE REQUIREMENTS 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.



RANCH SLAND WAY

SULLIVAN BRANC 525 CUMBERLANI SULLIVAN, MO 63



ARCHITECT-OF-RECORD JEMA

3005 LOCUST ST.
ST. LOUIS, MO 63103
T (314) 531-7400
CONTACT: SCOTT CLARK

C

DESIGN ARCHITECT
SAPP DESIGN ASSOCIATES ARCHITECTS
3750 SOUTH FREMONT

E-MAIL: SCLARK@JEMASTL.COM

- 3750 SOUTH FREMONT SPRINGFIELD, MO 65804 T (417) 877-9600
- F (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) 584-0540
 F (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

E: BCOLEMAN@BRICPARTNERSHIP.COM

MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTNERSHIP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO 63122 T (314) 725-5889

ENGINEER OF RECORD:

CONTACT: BRUCE COLEMAN

STEVEN J. EHRETT
MO STRUCTURAL LICENSE E-29025
MO CERTIFICATE OF AUTHORITY 000287

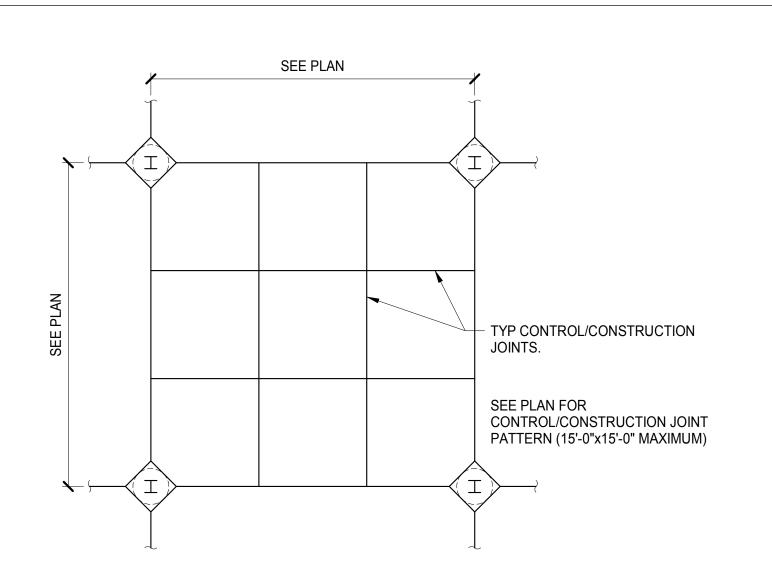
No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWN BY: **TRN**

PROJECT NUMBER: 16024

SHEET TITLE:

GENERAL NOTES



- 3/4"ØX16" LONG SMOOTH DOWELS @ 12"OC CENTERED IN SLAB - COAT ONE END TO PREVENT BOND SLAB ON GRADE **CONSTRUCTION JOINT** CONTROL JOINT AT CONTRACTORS OPTION UNLESS NOTED OTHERWISE. - SLAB ON GRADE

1. CONSTRUCTION AND/OR CONTROL JOINTS ARE INTERCHANGEABLE AT THE CONTRACTORS OPTION. SEE PLANS FOR JOINT LOCATIONS.

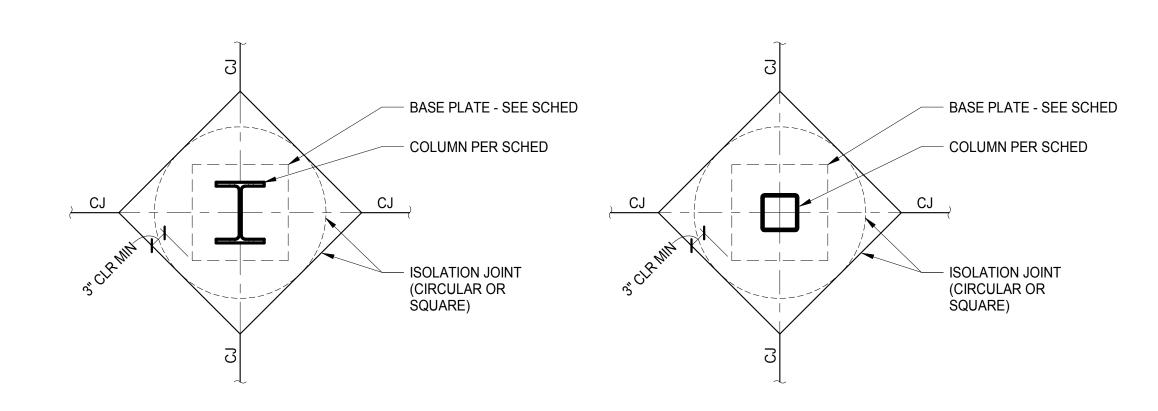
2. SAW CUTTING OF JOINTS SHALL BE DONE AS THE CONCRETE SETS SUFFICIENTLY TO PERMIT CUTTING WITHOUT CHIPPING, SPALLING OR TEARING, BUT NOT MORE THAN 24 HOURS AFTER PLACING.

3. REINFORCEMENT TO STOP 2" CLEAR OF CONSTRUCTION JOINTS OR STRIPPABLE CONTROL JOINTS. AT SAW CUT JOINTS, CUT REINFORCEMENT OR STOP 2" CLEAR OF JOINT.

4. JOINTS SHALL DIVIDE SLAB INTO AREAS AS SAW CUT OR STRIPPABLE SQUARE AS POSSIBLE (1.5 TO 1 MAXIMUM L x W RATIO) WITH A MAXIMUM JOINT SPACING OF 15'-0",

> 5. 1 1/2" IF "D" IS LESS THAN OR EQUAL TO 9", D/3 IF "D" IS GREATER THAN 9", D/3 IF REINFORCED.

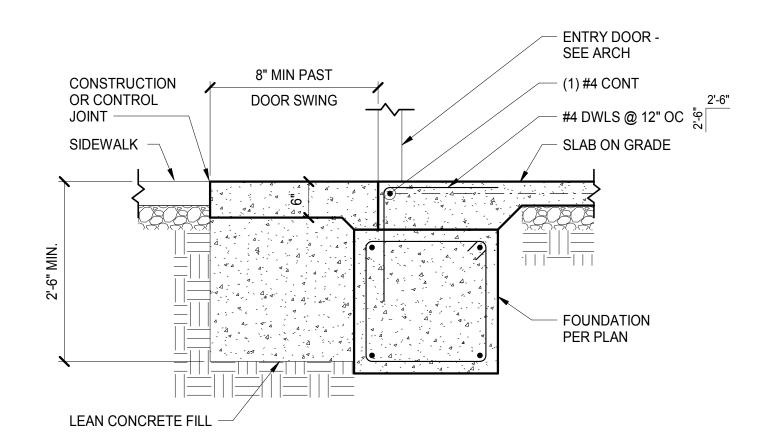
6. IF SLAB AREA IS UNDEFINED ON PLAN OR IF AN ALTERNATE JOINT PATTERN IS REQUESTED, THE CONTRACTOR SHALL SUBMIT A LOCATION PLAN FOR APPROVAL.

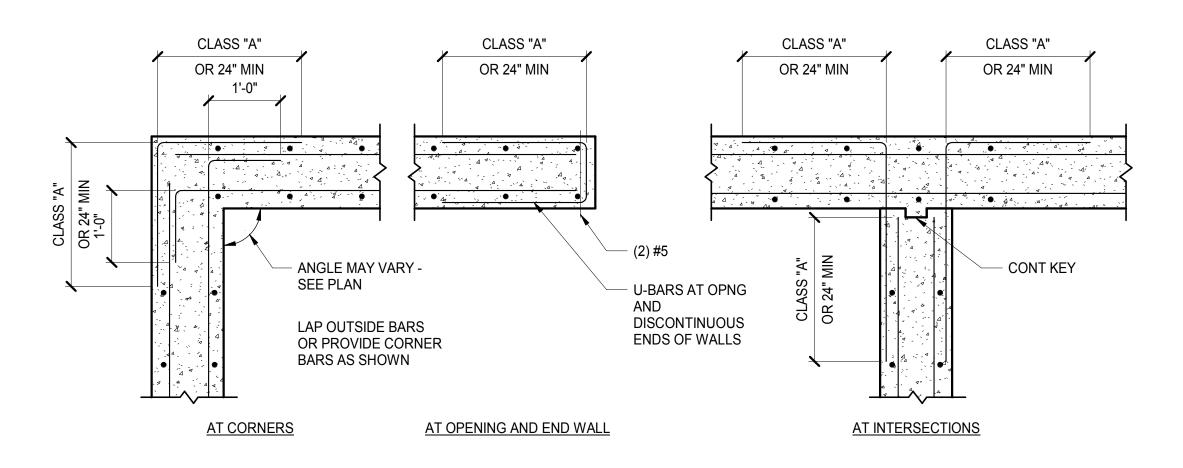


2 TYPICAL SLAB ON GRADE DETAIL S-102 N.T.S.

CONTROL JOINT

(3) TYPICAL COLUMN ISOLATION JOINT DETAIL S-102 N.T.S.





4 SLAB FROST HEAVE PREVENTION DETAIL

N.T.S.

TYPICAL SLAB CONTROL

S-102 N.T.S.

AND CONSTRUCTION JOINT DETAIL

AND CORNERS OF CONTINUOUS FOOTINGS, GRADE BEAMS, AND WALLS DETAIL

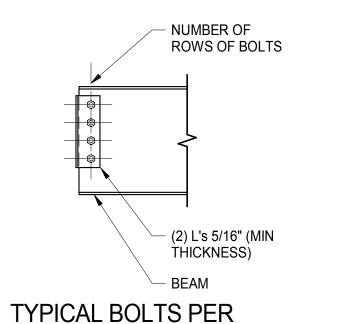
S-102 N.T.S.

BEAM CONNECTION SCHEDULE MINIMUM NUMBER OF ROWS OF 3/4"Ø **BEAM SIZE** A-325N BOLTS (UNO) W8 AND W10 W12 AND W14 W16 W18 W21 W24

W33 NOTES:

W30

1. TABLE INDICATES MINIMUM VALUES. CONNECTION ENGINEER TO PROVIDE CALCULATIONS FOR ALL SHEAR CONNECTIONS.



6 CONNECTION DETAIL

S-102 3/4" = 1'-0"

W8 AND W10	2	1/4	5/16	
W12 AND W14	3	1/4	5/16	
W16	4	1/4	5/16	
W18	5	5/16	3/8	
W21	6	5/16	3/8	
W24 AND W27	7	3/8	7/16	
W30	8	3/8	7/16	
W33 AND W36	9	3/8	7/16	
NOTES:				
TABLE INDICATES MINIMUM VALUES. CONNECTION ENGINEER TO PROVIDE CALCULATIONS FOR ALL SHEAR CONNECTIONS.				

MINIMUM NUMBER OF ROWS OF 3/4"Ø | WELD SIZE (IN) | PLATE THICKNESS

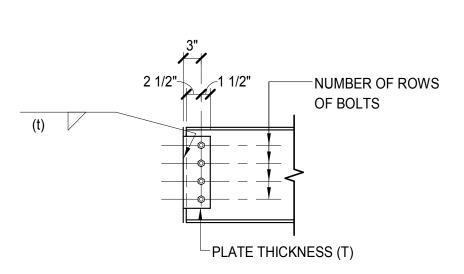
MINIMUM

(T) (IN) MINIMUM

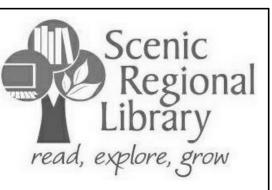
BEAM CONNECTION SCHEDULE

A-325N BOLTS (UNO)

BEAM SIZE



7 TYPICAL SINGLE SHEAR TAB CONNECTION DETAIL



REGIONAL 525 CUMBERLAND WAY SULLIVAN, MO 63080 SCENIC LIBRARY SULLIVAN

ARCHITECT-OF-RECORD

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) 877-9600 F (417) 877-9696

CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHITECTS.COM

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

STRUCTURAL ALPER AUDI, INC. 1804 BORMAN CIRCLE DRIVE ST. LOUIS, MO 63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE EHRETT

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

E-MAIL: STEVE.EHRETT@ALPERAUDI.COM

ENGINEER OF RECORD:

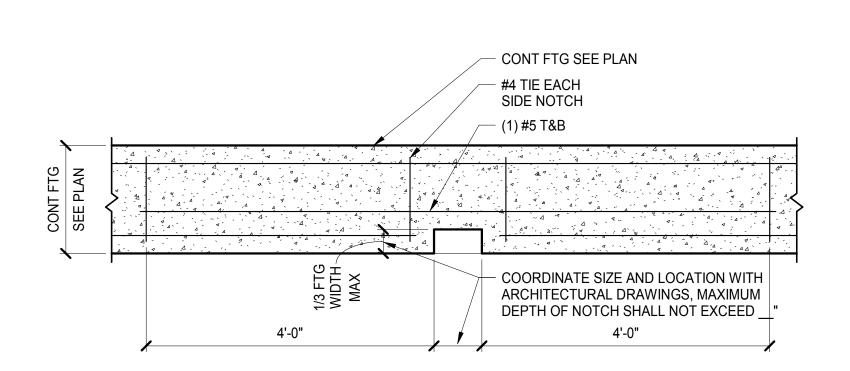
STEVEN J. EHRETT MO STRUCTURAL LICENSE E-29025 MO CERTIFICATE OF AUTHORITY 000287

No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWN BY: **TRN**

PROJECT NUMBER: **16024**

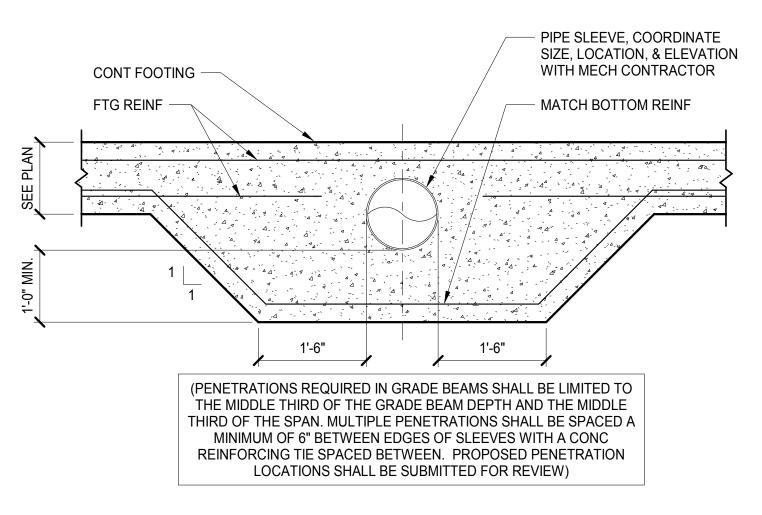
SHEET TITLE: TYPICAL DETAILS



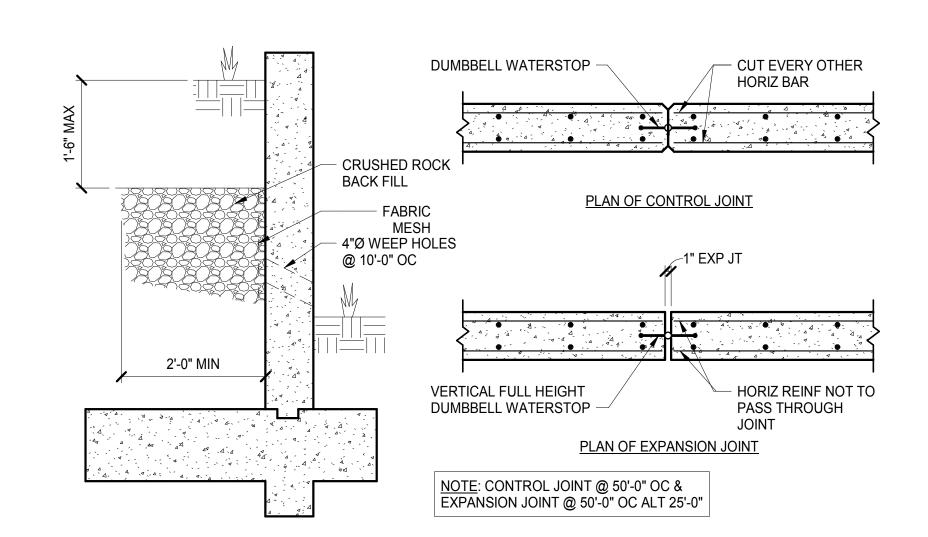
TYPICAL DOWN SPOUT

NOTCH AT CONTINUOUS FOOTING DETAIL

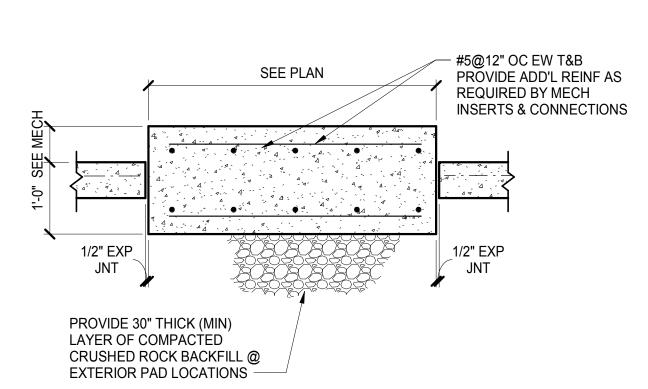
S-103 N.T.S.



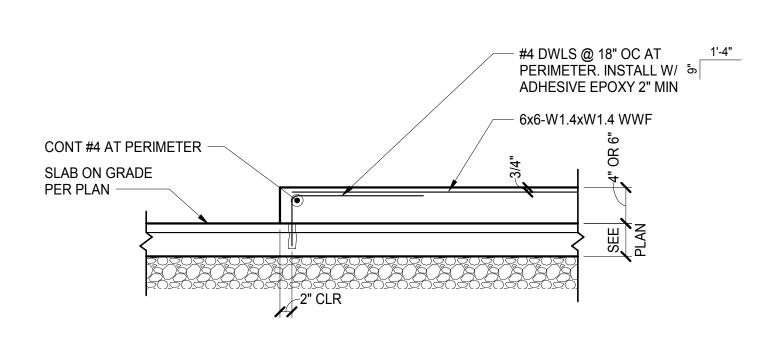
2 TYPICAL PIPE SLEEVE THRU CONTINUOUS FOOTING DETAIL N.T.S.



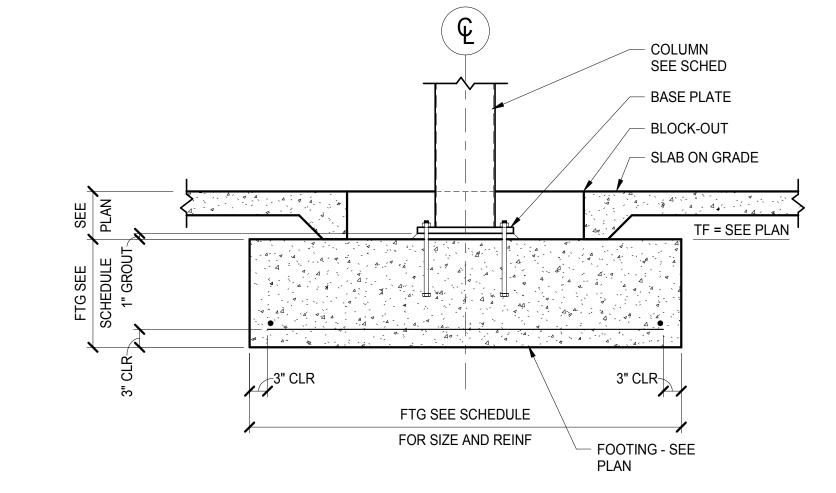
3 TYPICAL RETAINING WALL DETAILS
S-103 N.T.S.



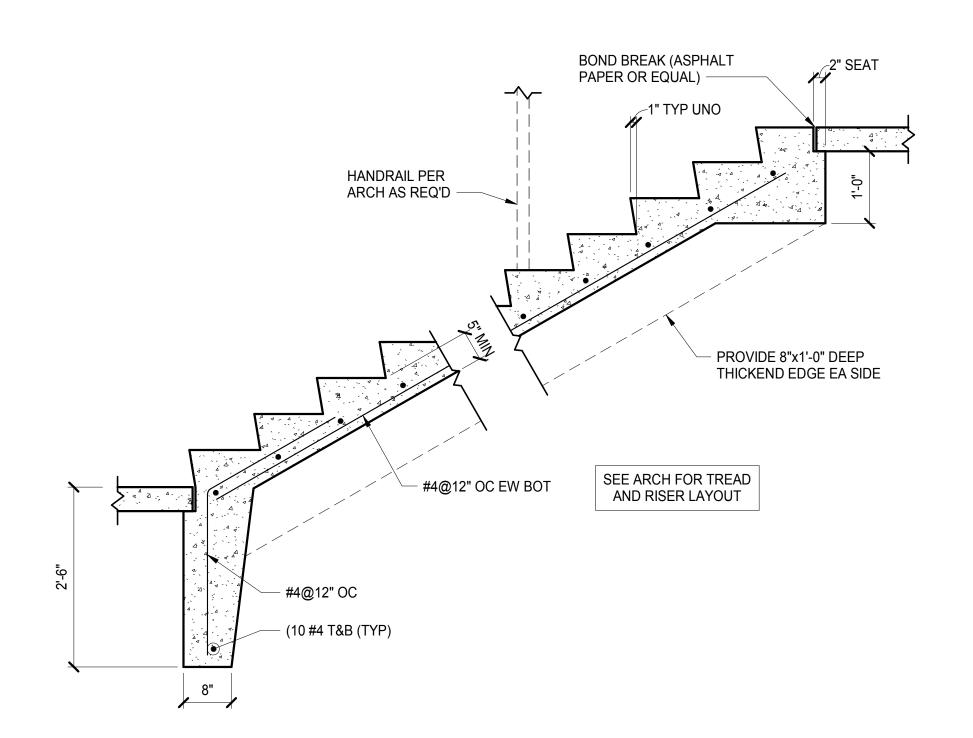
TYPICAL MECHANICAL PAD ON GRADE DETAIL
S-103 N.T.S.



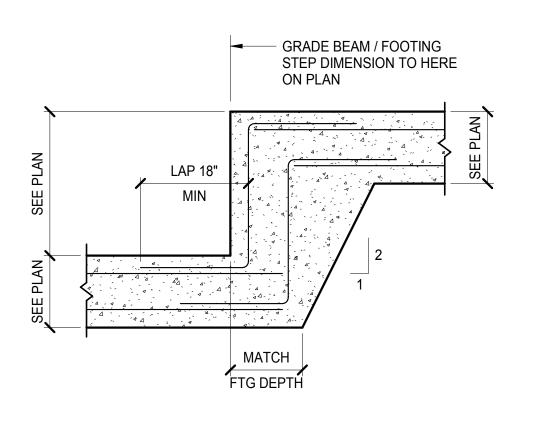
TYPICAL HOUSEKEEPING PAD ON CONCRETE SLAB ON GRADE N.T.S.



6 TYPICAL INTERIOR COLUMN AT SPREAD FOOTING DETAIL N.T.S.



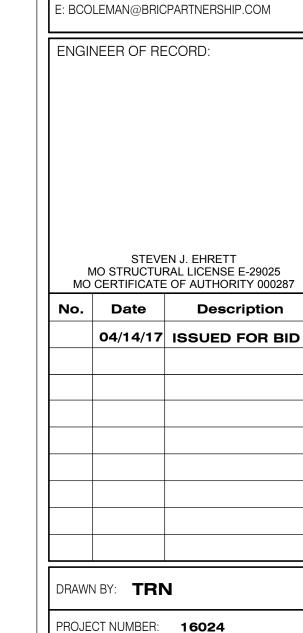
7 TYPICAL INTERIOR OR EXTERIOR CONCRETE STAIR ON GRADE N.T.S.



TYPICAL STEP GRADE

8 BEAM OR FOOTING DETAIL

8 N.T.S.



read, explore, grow

525 CUMBERLAND WAY SULLIVAN, MO 63080

REGIONA

SCENIC LIBRARY

ARCHITECT-OF-RECORD

3005 LOCUST ST.

T (314) 531-7400 CONTACT: SCOTT CLARK

ST. LOUIS, MO 63103

3750 SOUTH FREMONT SPRINGFIELD, MO 65804

T (417) 877-9600

F (417) 877-9696

UNION, MO 63084

T (636) 584-0540

F (636) 584-0512

STRUCTURAL ALPER AUDI, INC.

<u>CIVIL</u> COCHRAN

E-MAIL: SCLARK@JEMASTL.COM

CONTACT: JAMES STUFFLEBEAM
E: STUFFLEBEAM@SDAARCHITECTS.COM

530A E. INDEPENDENCE DRIVE

E-MAIL: DVANLEER@COCHRAN.COM

E-MAIL: STEVE.EHRETT@ALPERAUDI.COM

MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTNERSHIP, LLC 343 S. KIRKWOOD ROAD, SUITE 204

CONTACT: DAVE VAN LEER

1804 BORMAN CIRCLE DRIVE ST. LOUIS, MO 63146 T (314) 432-8600 F (314) 807-2774

CONTACT: STEVE EHRETT

KIRKWOOD, MO 63122

CONTACT: BRUCE COLEMAN

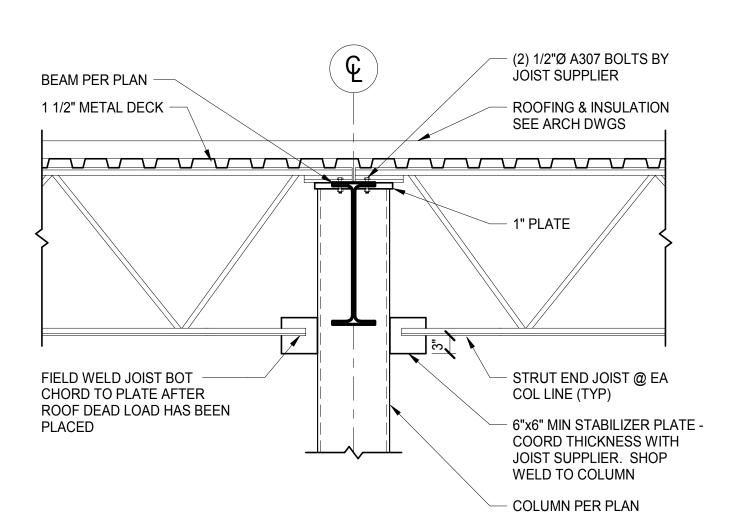
T (314) 725-5889

DESIGN ARCHITECT
SAPP DESIGN ASSOCIATES ARCHITECTS

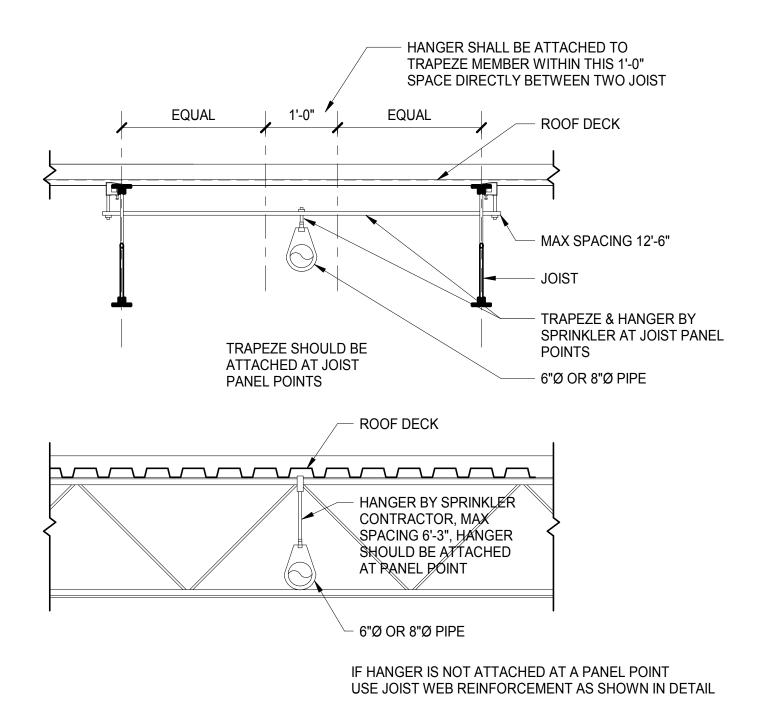
S-103

SHEET TITLE:

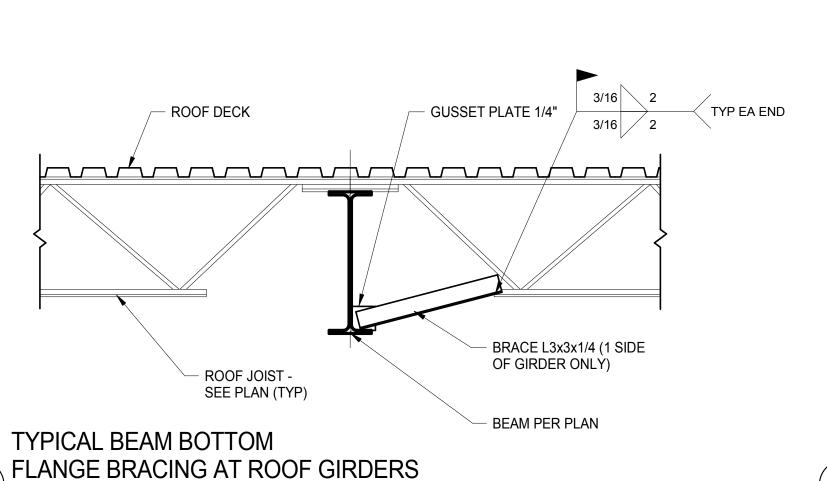
TYPICAL DETAILS



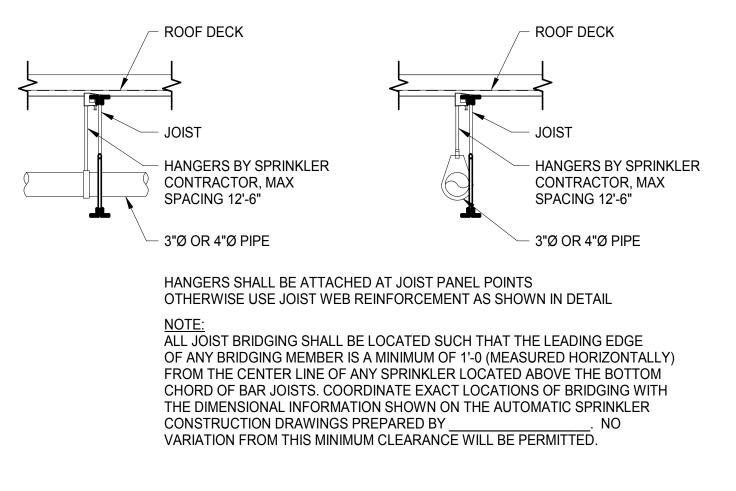
1 TYPICAL STRUT END JOIST DETAIL AT HSS COLUMN DETAIL S-104 N.T.S.



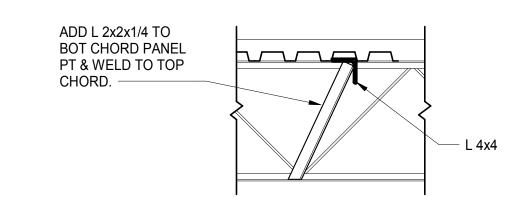
TYPICAL 6" DIA or 8" DIA SPRINKLER PIPES HANGER DETAIL N.T.S.



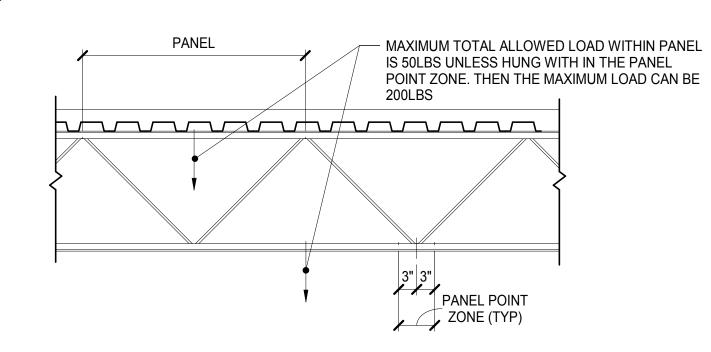
S-104 3/4" = 1'-0"



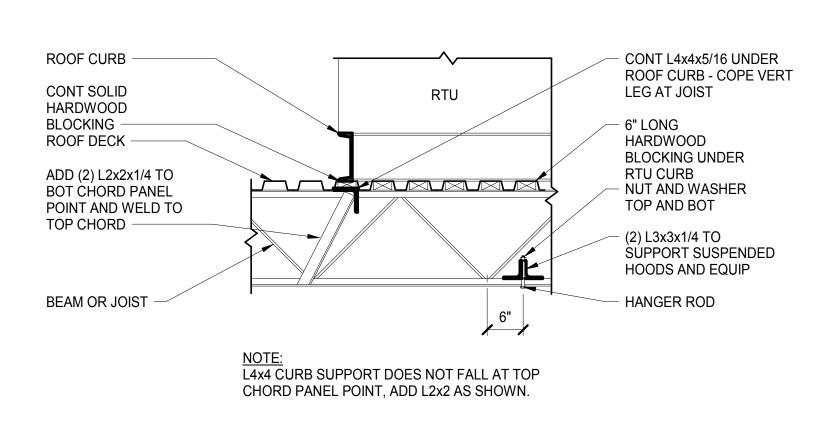
TYPICAL 3" DIA OR 4" DIA SPRINKLER PIPES HANGER DETAIL
N.T.S.



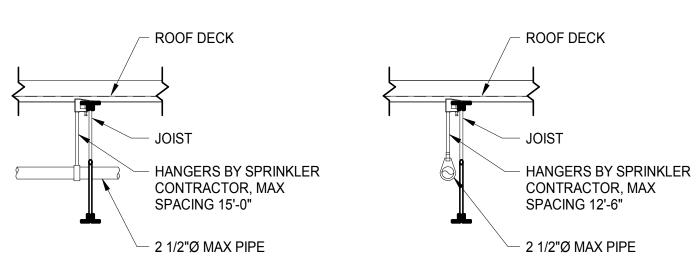
5 TYPICAL JOIST WEB REINFORCEMENT DETAIL
N.T.S.



6 TYPICAL MISCELLANEOUS HANGERS DETAIL N.T.S.

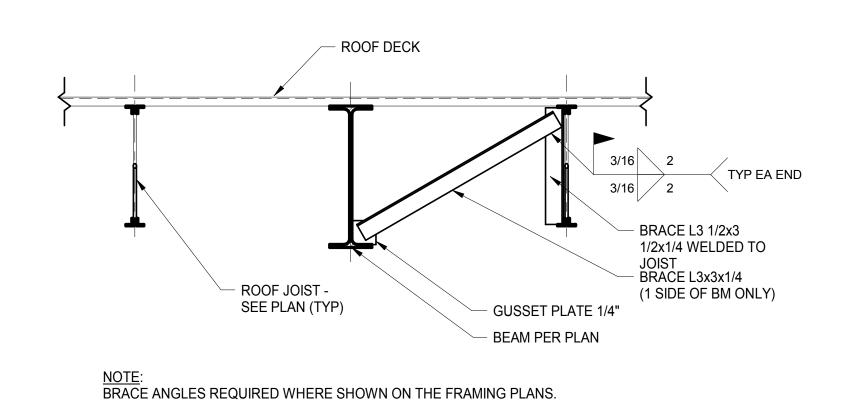


9 TYPICAL ROOF TOP UNITS DETAIL
S-104 3/4" = 1'-0"



HANGERS <u>DO NOT</u> HAVE TO BE ATTACHED AT JOIST PANEL POINTS IF ONE HANGER LOAD DOES NOT EXCEED 50LBS - OTHERWISE USE TYPICAL JOIST WEB REINFORCEMENT AS DETAILED

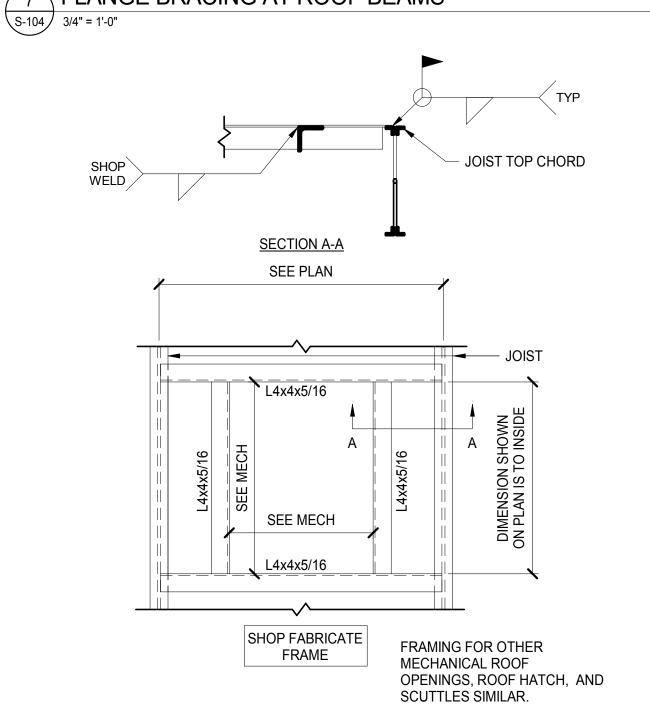
3 TYPICAL 2 1/2" DIA MAX SPRINKLER PIPES HANGER DETAIL N.T.S.



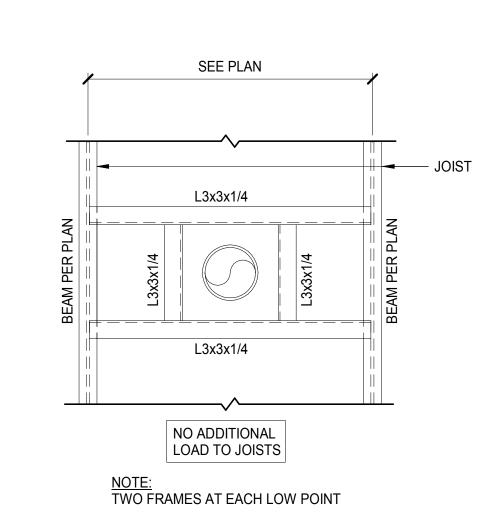
TYPICAL BEAM BOTTOM

FLANGE BRACING AT ROOF BEAMS

ANGLES ARE TO BE EQUALLY SPACED WITHIN THE BEAM SPAN.



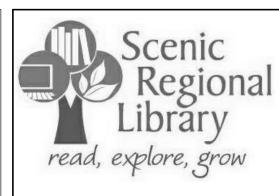
TYPICAL RTU ROOF FRAMING DETAIL
3/4" = 1'-0"



TYPICAL FRAME FOR

ROOF DRAIN AND OVERFLOW DETAIL

| S-104 | 3/4" = 1'-0" (OTHER OPENINGS SIMILAR)



SCENIC REGIONAI
LIBRARY
SULLIVAN BRANCH
525 CUMBERLAND WAY
SULLIVAN, MO 63080

S D ARCHITEC

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) 877-9600 F (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) 584-0540 F (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

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

ENGINEER OF RECORD:

STEVEN J. EHRETT MO STRUCTURAL LICENSE E-29025 MO CERTIFICATE OF AUTHORITY 000287

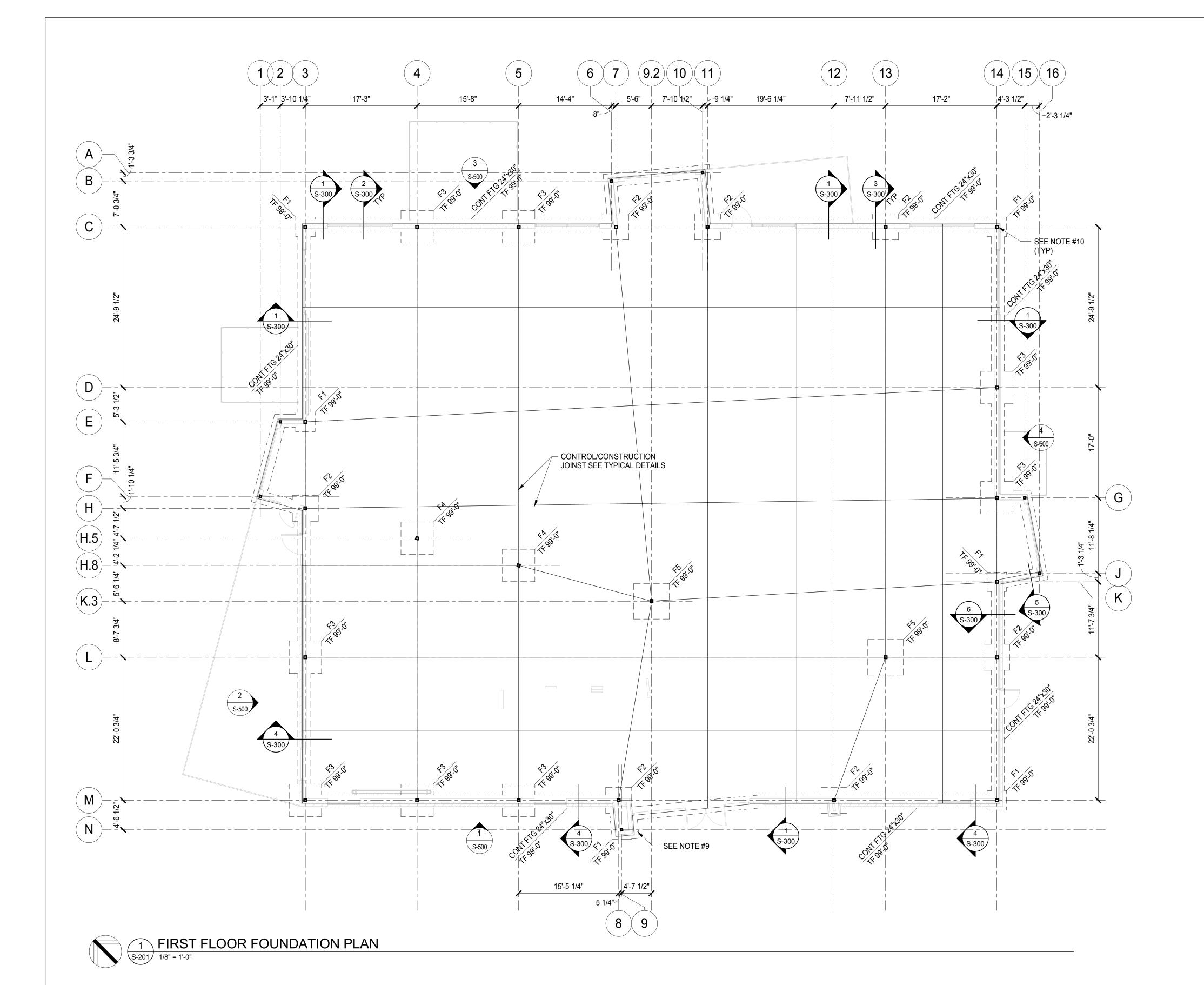
No. Date Description

04/14/17 ISSUED FOR BID

DRAWN BY: **TRN**PROJECT NUMBER: **16024**

SHEET TITLE:

TYPICAL DETAILS



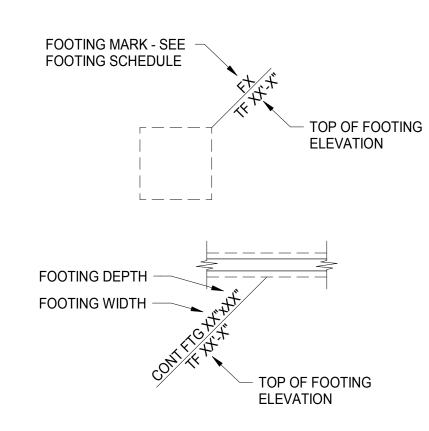
FOUNDATION NOTES:

- 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 = 970.0).

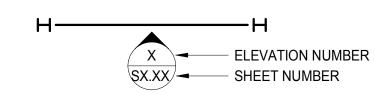
5. SLAB CONSTRUCTION: 4" NORMAL WEIGHT CONCRETE SLAB ON GRADE ON 10 MIL. VAPOR RETARDER ON 6" MINIMUM COMPACTED GRANULAR FILL. REINFORCE SLAB WITH ONE LAYER 6x6-W2.1xW2.1 WWF CENTERED IN SLAB.

- 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&R

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.

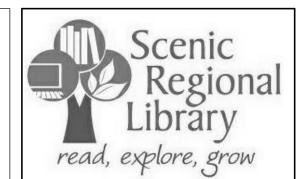


TYPICAL FOOTING DESIGNATION



TYPICAL BRACING DESIGNATION

	FOOTING SCHEDULE					
MARK	SIZE	REINFORCING EACH WAY TOP & BOTTOM UNO	REMARKS			
F1	3'-0"x3'-0"x2'-6"	(4) #5 EW				
F2	4'-0"x4'-0"x2'-6"	(5) #5 EW				
F3	5'-0"x5'-0"x2'-6"	(6) #5 EW				
F4	5'-0"x5'-0"x1'-3"	(6) #5 EW				
F5	5'-6"x5'-6"x1'-3"	(6) #5 EW				



SCENIC REGIONAL
LIBRARY
SULLIVAN BRANCH
525 CUMBERLAND WAY
SULLIVAN, MO 63080



ARCHITECT-OF-RECORD

3005 LOCUST ST. ST. LOUIS, MO 63103 T (314) 531-7400 CONTACT: SCOTT CLARK

E-MAIL: SCLARK@JEMASTL.COM

DESIGN ARCHITECT

DESIGN 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

CIVIL
COCHRAN

530A E. INDEPENDENCE DRIVE UNION, MO 63084 CONTACT: DAVE VAN LEER T (636) 584-0540

T (636) 584-0540 F (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

ENGINEER OF RECORD:

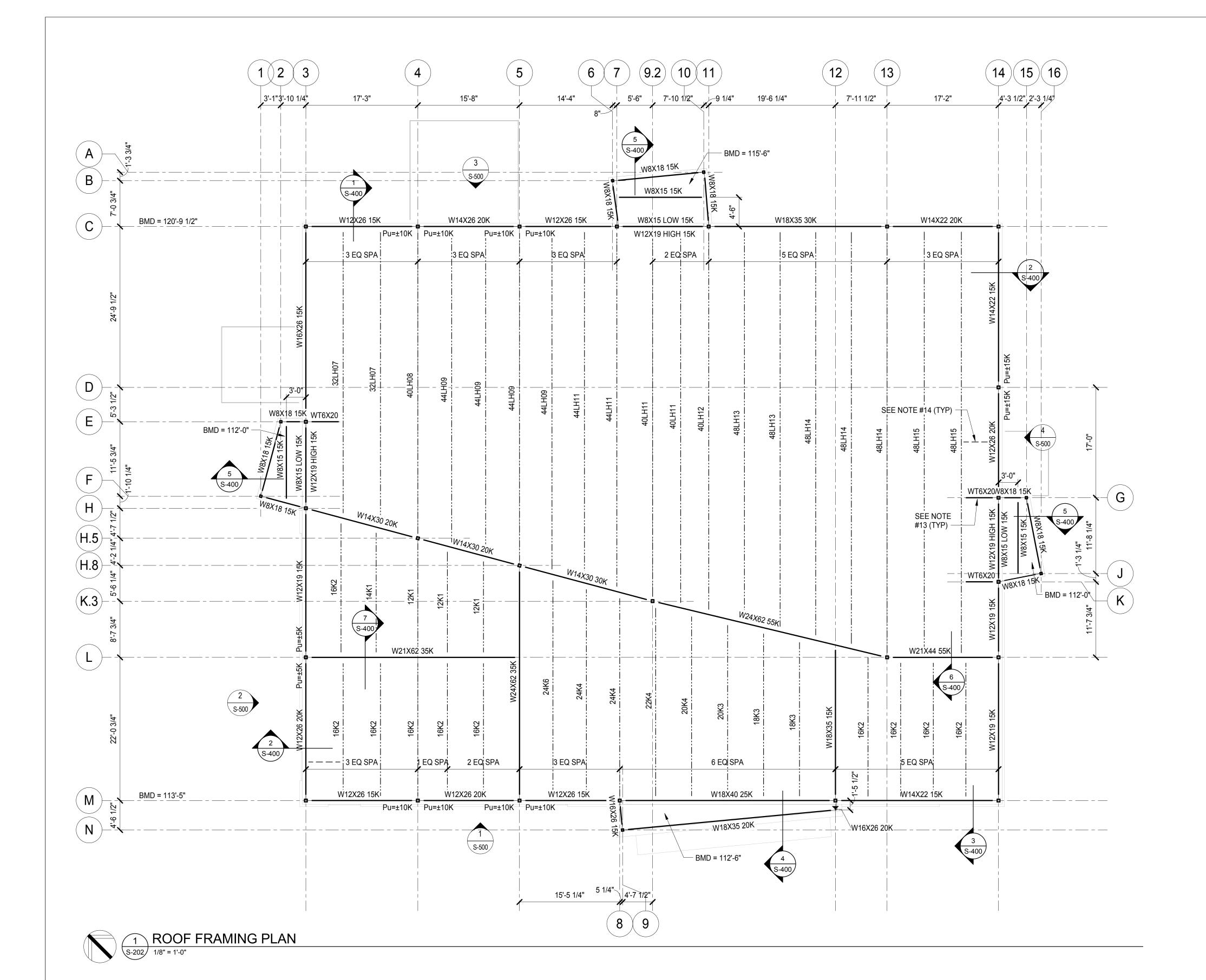
STEVEN J. EHRETT MO STRUCTURAL LICENSE E-29025 MO CERTIFICATE OF AUTHORITY 000287

IVIO	OLIVIII IOATE	- O1 7/011101(111 000201
No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWN BY: TRN

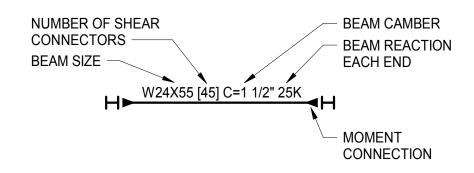
PROJECT NUMBER: 16024

SHEET TITLE:
FIRST FLOOR FOUNDATION PLAN

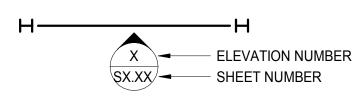


FRAMING NOTES:

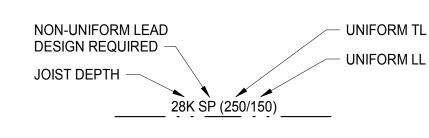
- 1. SEE SHEET SERIES S-100 FOR GENERAL NOTES AND TYPICAL DETAILS.
- 2. SEE SHEET SERIES S-500 FOR VERTICAL BRACING ELEVATIONS AND DETAILS.
- 3. SEE SHEET SERIES S-600 FOR COLUMN SCHEDULE AND BASE PLATE DETAILS.
- 4. SEE TYPICAL BEAM DESIGNATION FOR MOMENT CONNECTION SYMBOL.
- 5. SEE TYPICAL VERTICAL BRACING DESIGNATION FOR BRACING SYMBOL.
- 6. BOTTOM OF METAL DECK ELEVATION SHOWN ON PLAN.
- 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 7'-6" 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 SJI (UNO).
- 12. "BMD" NOTED ON PLAN INDICATES BOTTOM OF METAL DECK ELEVATION.
- 13. WT6x20 WELD TO COLUMN. COPE AND LAP ONTO JOIST TOP CHORD. WELD DECK TO WT W/ 5/8"Ø PUDDLE WELDS @ 6" OC
- 14. SEE TYPICAL DETAILS, SHEET S-104, FOR BEAM BRACING DETAILS.



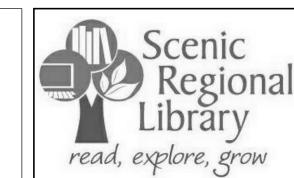
TYPICAL BEAM DESIGNATION



TYPICAL BRACING DESIGNATION



TYPICAL JOIST DESIGNATION



SCENIC REGIONAL
LIBRARY
SULLIVAN BRANCH
525 CUMBERLAND WAY
SULLIVAN, MO 63080



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) 877-9600 F (417) 877-9696

CONTACT: JAMES STUFFLEBEAM
E: STUFFLEBEAM@SDAARCHITECTS.COM

COCHRAN 530A E. INDEPENDENCE DRIVE UNION, MO 63084

CONTACT: DAVE VAN LEER
T (636) 584-0540
F (636) 584-0512
E MAII : DVANI EER®COCHRAN CON

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

E: BCOLEMAN@BRICPARTNERSHIP.COM

ENGINEER OF RECORD:

CONTACT: BRUCE COLEMAN

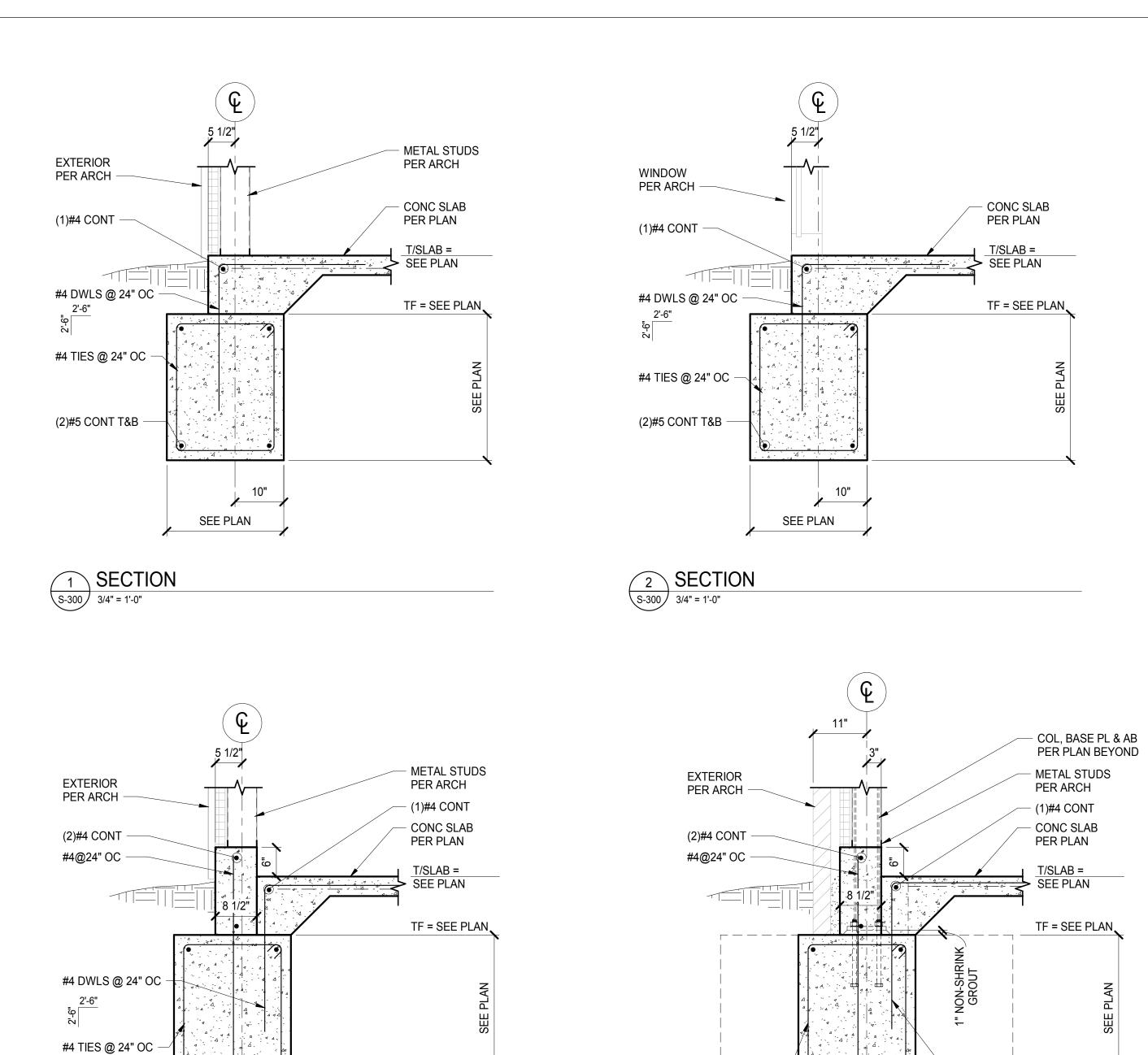
STEVEN J. EHRETT MO STRUCTURAL LICENSE E-29025 MO CERTIFICATE OF AUTHORITY 000287

1	No.	Date	Description
		04/14/17	ISSUED FOR BID

DRAWN BY: TRN

PROJECT NUMBER: 16024

SHEET TITLE:
ROOF FRAMING PLAN



#4 TIES @ 48" OC -

(2)#5 CONT T&B

6 SECTION

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

10"

SEE PLAN

- COL FTG PER

PLAN BEYOND

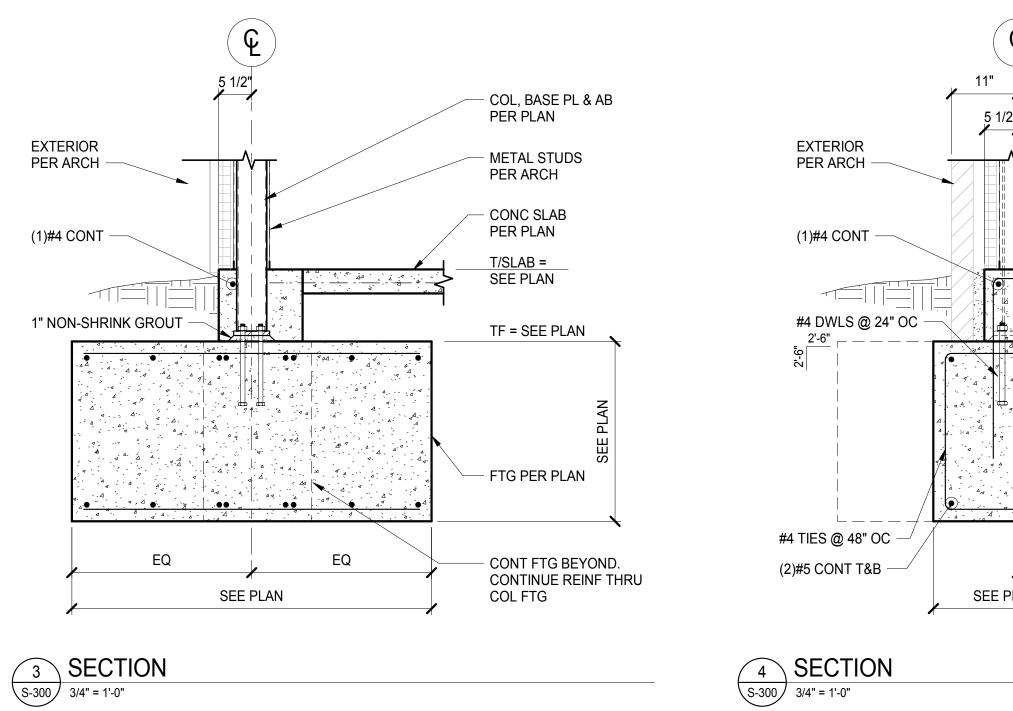
- #4 DWLS @ 24" OC

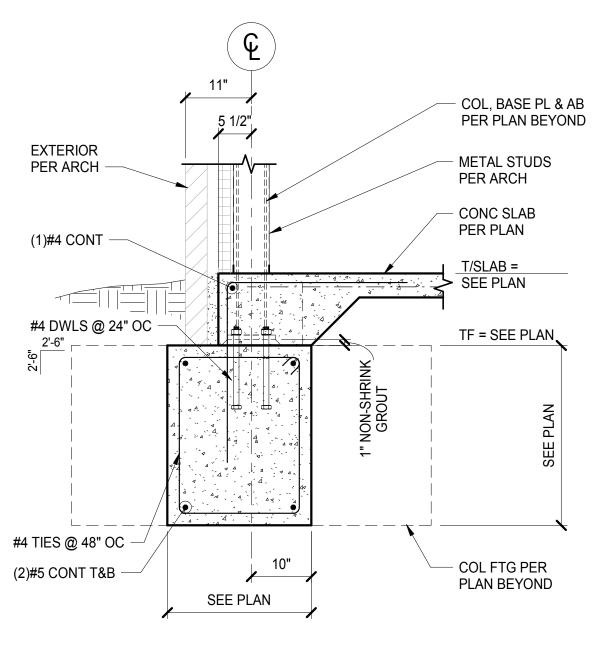
(2)#5 CONT T&B

5 SECTION 3/4" = 1'-0"

10"

SEE PLAN





read, explore, grow

REGIONAL 525 CUMBERLAND WAY SULLIVAN, MO 63080 SCENIC LIBRARY SULLIVAN

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) 877-9600 F (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) 584-0540 F (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

ENGINEER OF RECORD:

STEVEN J. EHRETT MO STRUCTURAL LICENSE E-29025 MO CERTIFICATE OF AUTHORITY 000287

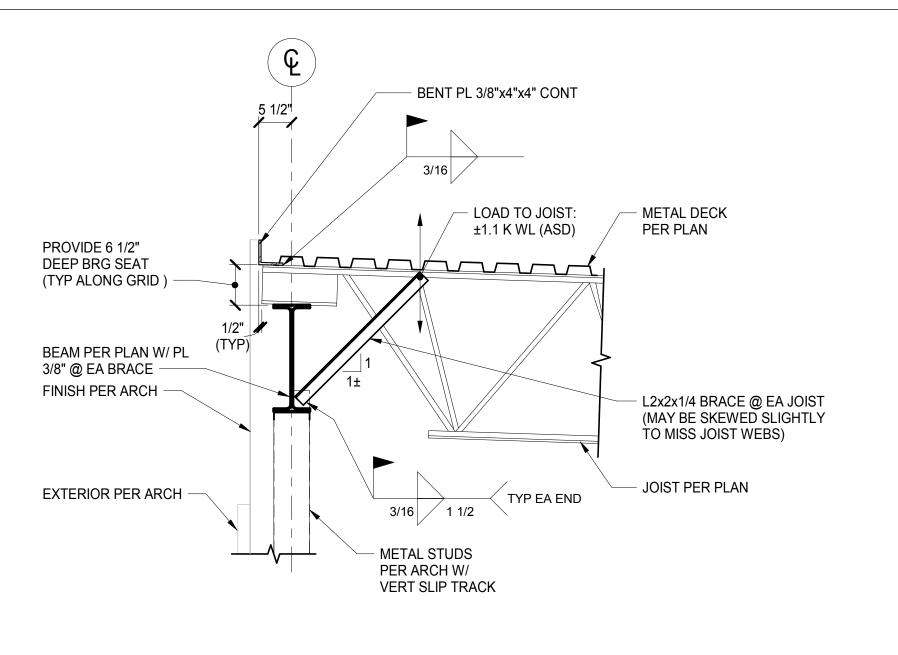
No.	Date	Description
	04/14/17	ISSUED FOR BID

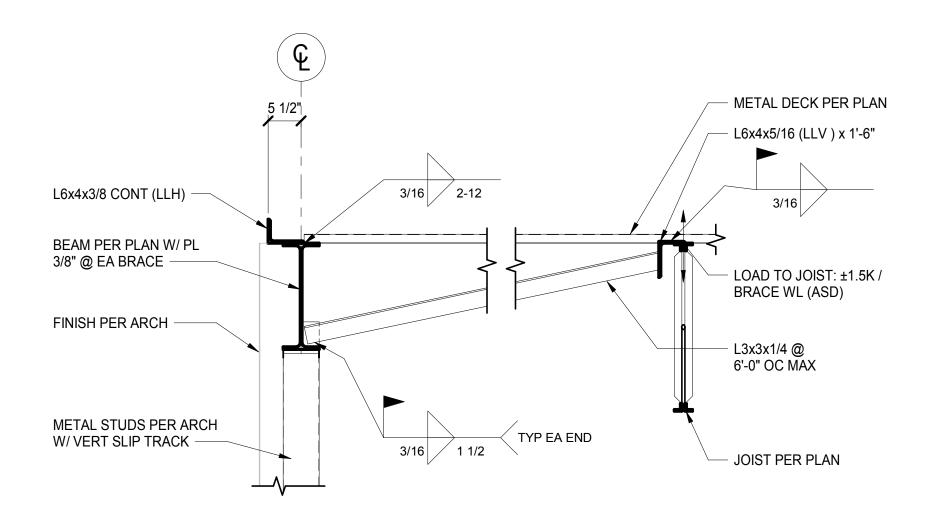
DRAWN BY: **TRN**

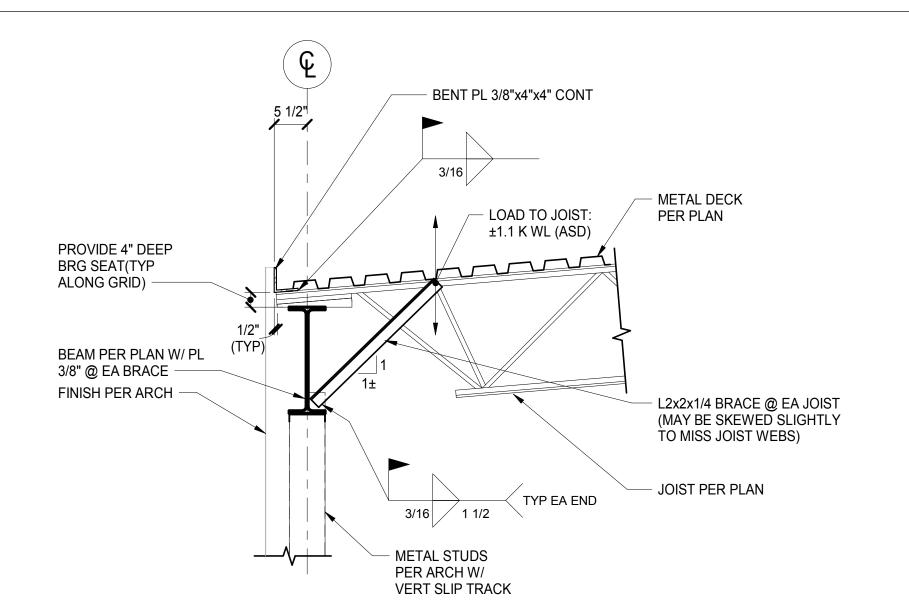
SHEET TITLE:

PROJECT NUMBER: 16024

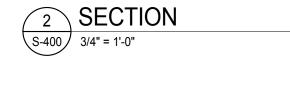
FOUNDATION SECTIONS



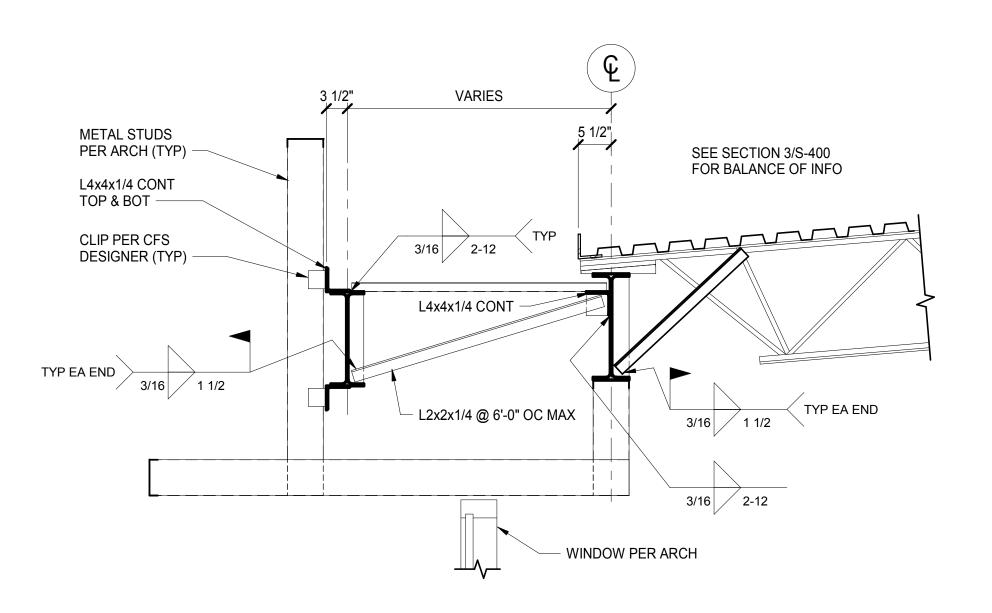


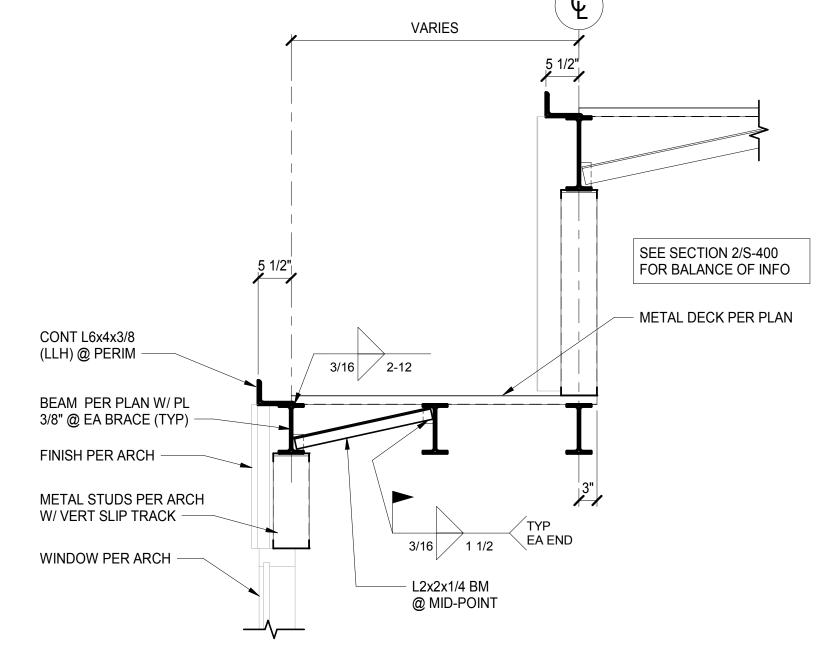


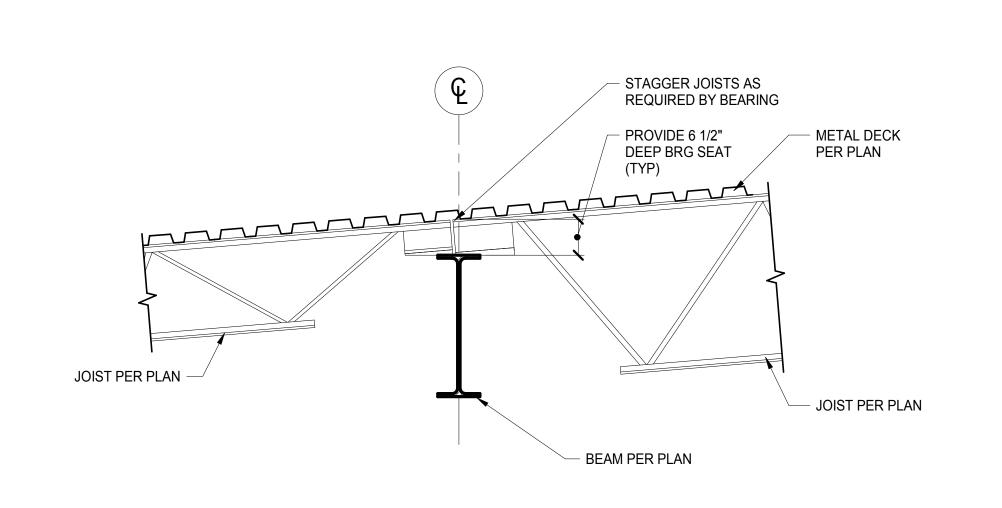


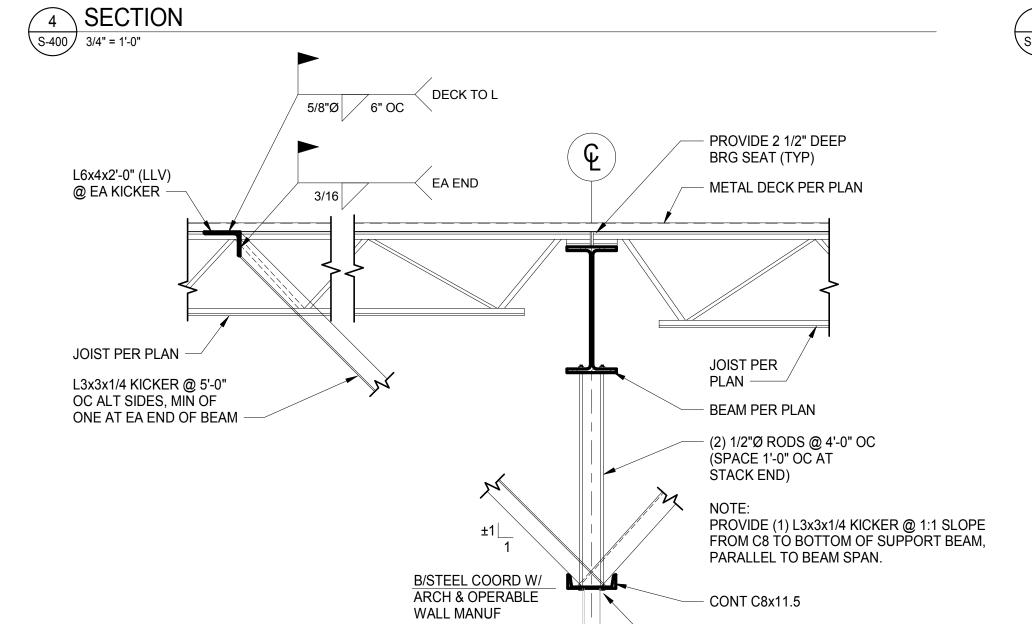












MAX OPERABLE WALL

LOAD = 160 PLF ---

7 SECTION S-400 3/4" = 1'-0"

CONNECTION

TO CHANNEL BY OPERABLE WALL SUPPLIER S-400 3/4" = 1'-0"

6 SECTION S-400 3/4" = 1'-0"

read, explore, grow

ERLAND WAY, MO 63080 525 CUMBE SULLIVAN, I SCENIC LIBRARY

REGIONAL

ARCHITECT-OF-RECORD 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) 877-9600 F (417) 877-9696

CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHITECTS.COM 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

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

ENGINEER OF RECORD:

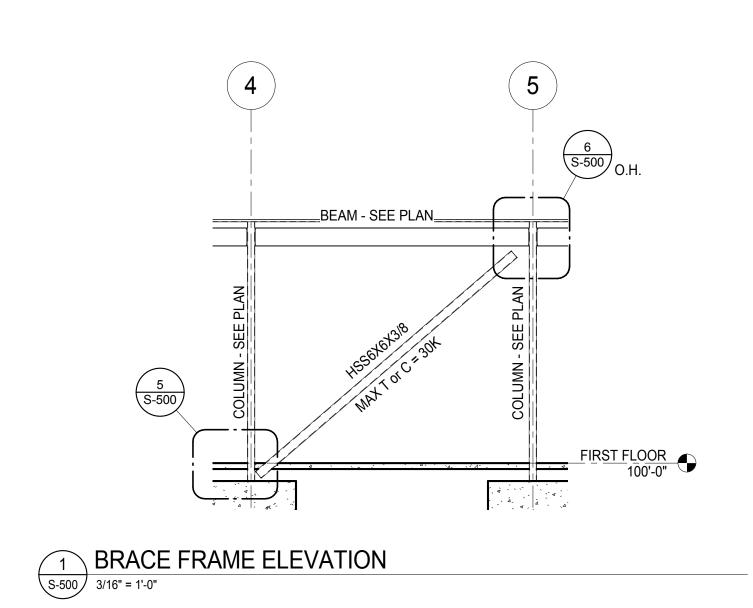
STEVEN J. EHRETT MO STRUCTURAL LICENSE E-29025 MO CERTIFICATE OF AUTHORITY 000287

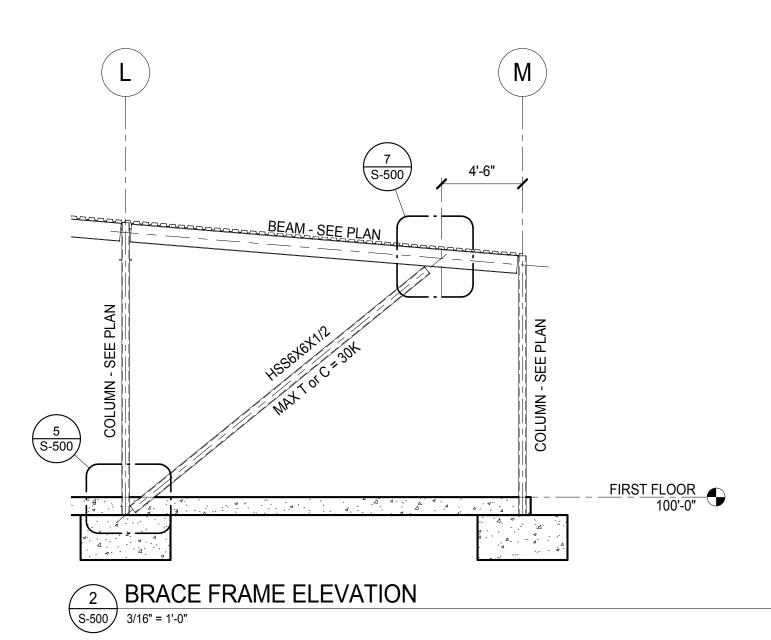
	OLIVIII IO/VIL	OF ACTIONITY 000207
No.	Date	Description
	04/14/17	ISSUED FOR BID

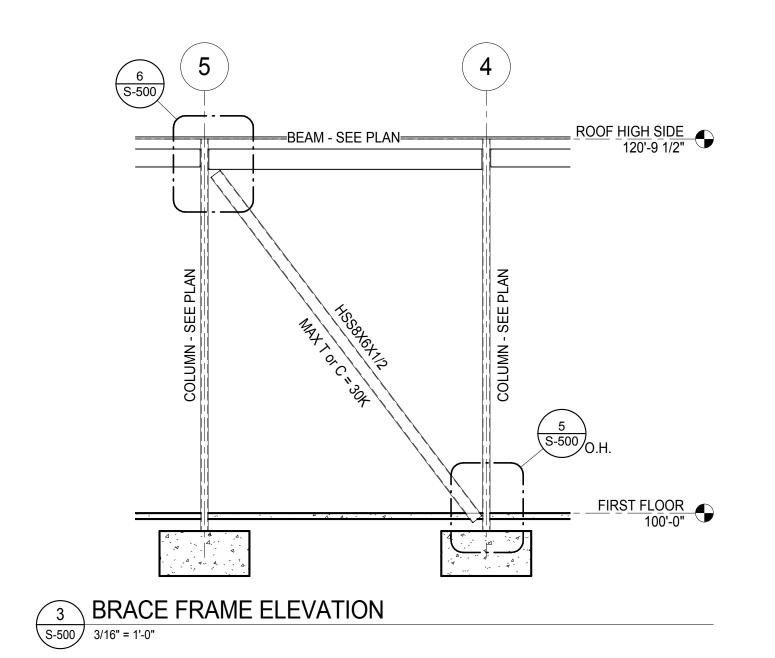
DRAWN BY: TRN

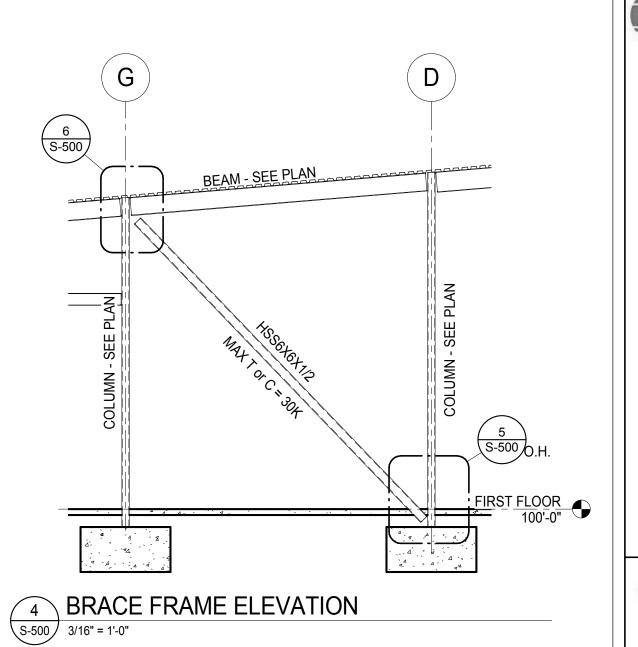
PROJECT NUMBER: **16024**

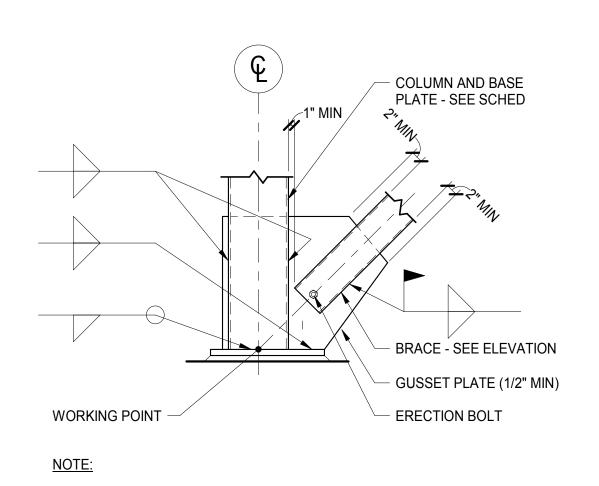
SHEET TITLE: FRAMING SECTIONS



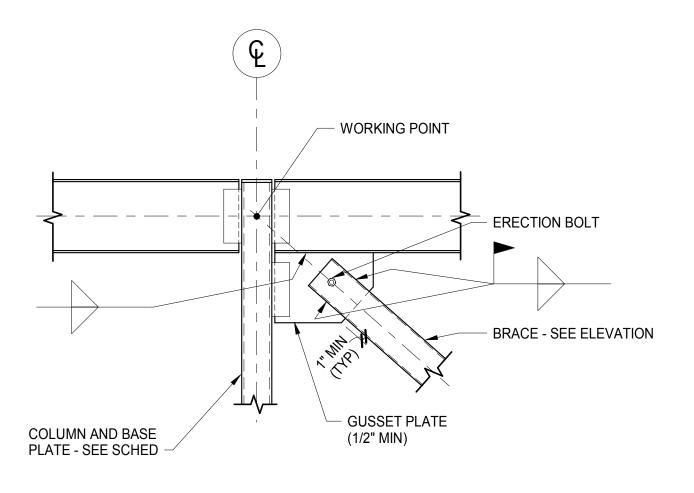




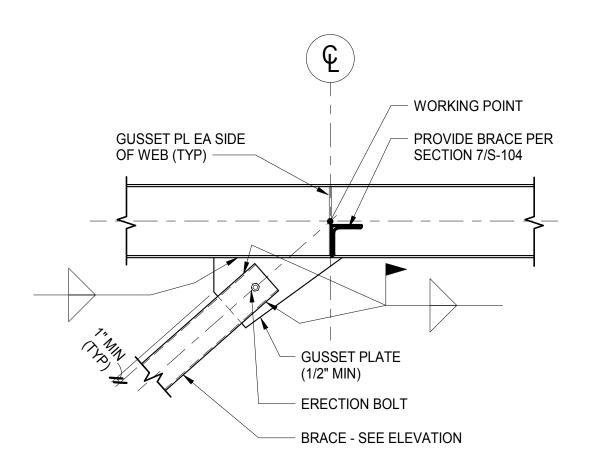
















REGIONAL 525 CUMBERLAND WAY SULLIVAN, MO 63080



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) 877-9600
F (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) 584-0540 F (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

ENGINEER OF RECORD:

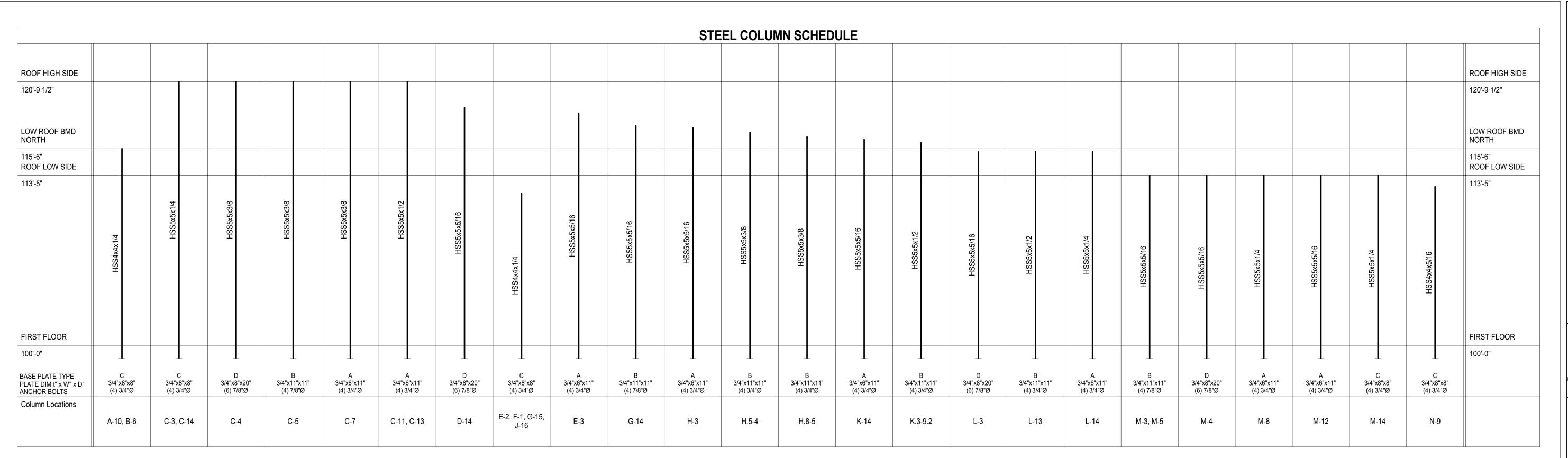
STEVEN J. EHRETT MO STRUCTURAL LICENSE E-29025 MO CERTIFICATE OF AUTHORITY 000287

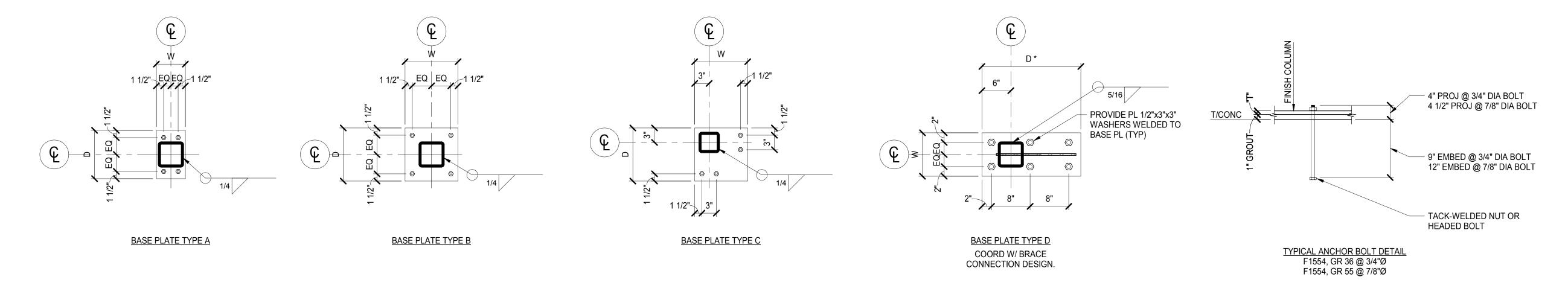
No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWN BY: **TRN**

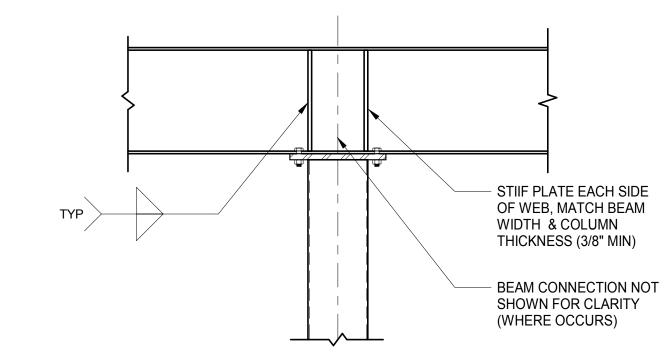
PROJECT NUMBER: 16024

SHEET TITLE: BRACE FRAME ELEVATIONS





TYPICAL BASE PLATE DETAILS



TYPICAL CANTILEVER BEAM DETAIL WITH COLUMN BELOW



SCENIC REGIONAL LIBRARY 525 CUMBERLAND WAY SULLIVAN, MO 63080

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) 877-9600 F (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) 584-0540 F (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

ENGINEER OF RECORD:

STEVEN J. EHRETT MO STRUCTURAL LICENSE E-29025

Nia	Data	Decembries
No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWN BY: **TRN**

PROJECT NUMBER: **16024**

COLUMN SCHEDULE & DETAILS

GENERAL NOTES

- 1. 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.
- 2. PIPES/DUCTS/ETC. PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE SEALED WEATHER PROOF.
- 3. CONTRACTOR TO FIRESTOP ALL PENETRATIONS THROUGH FIRE-RATED FLOORS AND WALLS CREATED BY NEW WORK WITH "SPECSEAL SSS" OR EQUAL.
- 4. PROVIDE OPENING IN DRY WALL ABOVE CEILING TO ALLOW SUPPLY AIR TO RETURN TO HEAT PUMPS OR AIR HANDLERS.
- 5. 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.
- 6. 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.
- 7. INSTALL H.V.A.C. SYSTEM IN ACCORDANCE WITH ALL STATE AND LOCAL
- 8. 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.
- 9. THE CONTRACTOR SHALL HAVE THE FINAL RESPONSIBILITY FOR SYSTEM START UP AND TURN OVER TO THE OWNER.
- 10. 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
- 11. FIRE CAULK ALL PENETRATIONS THRU FIRE RATED PARTITIONS TO MAINTAIN FIRE RATING OF PARTITION.
- 12. CAULK ALL PENETRATIONS THRU WALLS TO MINIMIZE SOUND PENETRATION THRU WALLS.
- 13. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL TEMPERATURE CONTROL SYSTEM REQUIREMENTS.
- 14. ROUTE LINE SIZE PVC CONDENSATE DRAIN PIPING FROM AIR HANDLING UNIT TO NEAREST FLOOR DRAIN. PROVIDE TRAP AT CONNECTION TO AIR HANDLING UNIT.
- 15. CONTRACTOR WILL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF ROOFS/WALLS/FLOORS AND CORE DRILLS REQUIRED TO COMPLETE THEIR RESPECTIVE WORK.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY TEMPORARY FENCING AROUND THE LIFT SITE DURING LIFTS.

GENERAL NOTES (AIR SIDE)

- 1. NOTE, ALL DUCTWORK OFFSETS ARE NOT SHOWN. THE CONTRACTOR SHALL MODIFY DUCTS AND OFFSETS TO COORDINATE WITH THE BUILDING STRUCTURE AND ALL TRADE REQUIREMENTS.
- 2. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER THE LATEST VERSION OF THE S.M.A.C.N.A. H.V.A.C. DUCT CONSTRUCTION STANDARDS, UNLESS SPECIFIED MORE STRINGENTLY IN THESE CONSTRUCTION DOCUMENTS. MINIMUM DUCT GAUGE SHALL BE 24.
- 3. 90° DUCT ELBOWS SHALL BE EQUIPPED WITH SINGLE THICKNESS TURNING VANES MOUNTED TO A PREFABRICATED VANE RAIL.
- 4. ALL ELBOWS SHALL BE SUPPLIED WITH TURNING VANES, WHETHER SHOWN ON DOCUMENTS OR NOT.
- 5. ALL 90° AND 45° RECTANGULAR RADIUS ELBOWS TO BE FABRICATED WITH AN INSIDE RADIUS NO LESS THAN 1/2 OF THE WIDTH OF THE DUCT WHERE THE WIDTH OF THE DUCT IS DEFINED AS THE DIMENSION OF THE DUCT IN THE PLANE IN WHICH THE DUCT IS TURNING
- RECTANGULAR DUCTWORK SHALL BE SUPPORTED PER THE S.M.A.C.N.A STANDARDS AND AT EACH CHANGE IN DIRECTION.
- 7. PROVIDE MANUAL, SINGLE BLADE, BALANCING DAMPERS WITH LOCKING QUADRANT AND INTEGRAL POSITION INDICATOR ON ALL RUNOUTS TO SUPPLY AND EXHAUST AIR DEVICES EXCEPT THOSE LOCATED IN AREAS WITH PLASTER CEILINGS AND ARE NOT ACCESSIBLE (DAMPER SHALL BE INTEGRAL WITH THE AIR DEVICE IN THESE CASES.)
- 8. PROVIDE MANUAL OPPOSED BLADE DAMPERS WITH LOCKING QUADRANT AND INTEGRAL POSITION INDICATOR ON ALL RECTANGULAR BRANCH DUCTS AND AIR DEVICE RUNOUTS THAT EXCEED 12" IN HEIGHT.
- 9. MANUAL SPLITTER DAMPERS ARE NOT ACCEPTABLE.
- 10. NOT ALL OF THE ACCESS DOORS IN THE DUCT SYSTEMS OR PLENUMS ARE SHOWN. PROVIDE ACCESS DOORS IN ALL DUCT SYSTEMS OR PLENUMS WHERE REQUIRED TO ACCESS AND MAINTAIN MOTORIZED OR AUTOMATIC DAMPER BLADES AND LINKAGES.
- 11. ALL DUCTWORK SHALL BE SUPPORTED FROM ROOF OR FLOOR STRUCTURE ABOVE. DUCTWORK SHALL NOT LAY ON TOP OF CEILING OR LIGHT FIXTURES.
- 12. FLEXIBLE DUCT RUNOUTS TO AIR DEVICES SHALL NOT EXCEED 5'-0" IN LENGTH. FLEXIBLE RUNOUTS SHALL BE TRIMMED TO THE MINIMUM LENGTH NECESSARY TO MAKE THE CONNECTION.
- 13. WHERE DAMPER ACTUATORS ARE MOUNTED TO DUCTWORK OR PLENUMS PROVIDE A HEAVY GAGE BASE PLATE, ANGLE STIFFENERS, OR MOUNTING AS REQUIRED TO ELIMINATE DEFLECTION OF DUCTWORK DURING ACTUATOR OPERATION.
- 14. FLEXIBLE DUCT CONNECTIONS TO EQUIPMENT ARE NOT SHOWN ON THE DRAWINGS. PROVIDE EXTRA WIDE FLEXIBLE CONNECTIONS ON THE SUPPLY DUCT AND THE RETURN DUCT OF EACH MAKE-UP AIR UNIT, ROOFTOP UNIT, AND EACH AIR HANDLING UNIT. PROVIDE STANDARD FLEXIBLE CONNECTIONS ON ALL BLOWER COILS, EXHAUST FANS, SUPPLY FANS, AND DUST COLLECTOR.
- 15. PROVIDE 45° FLARED TAKEOFFS FOR ALL RECTANGULAR BRANCH CONNECTIONS TO THE MAIN DUCT.
- 16. ALL DAMPER ACTUATORS FOR DUCT SYSTEMS OR EQUIPMENT THAT COMMUNICATES DIRECTLY WITH THE OUTDOORS SHALL BE SPRING RETURN TYPE TO CLOSE IN THE EVENT OF A POWER FAILURE.

SHOE DUCT TAP FROM RECT. MAIN

STRAIGHT RECT. DUCT TAP FROM RECT. MAIN

(AIR DEVICE TYPE) - (SCHEDULE NUMBER)

STRAIGHT RECT. DUCT TAP FROM ROUND MAIN S - SUPPLY DIFFUSER

AIR DEVICE TYPE:

T - TRANSFER GRILL

R - RETURN GRILLE

E - EXHAUST GRILLE

DUCT SYSTEM TYPE

SA - SUPPLY AIR

RA - RETURN AIR

EA - EXHAUST AIR

TA - TRANSFER AIR

OA - OUTDOOR AIR

AFM

CVR

45° DAMPERED DUCT TAP

45° DUCT TAP

SADDLE TAP

- (AIR FLOW IN CFM)

FLAT OVAL DUCT

NOTE: NOT ALL SYMBOLS OR ABBREVIATIONS MAY BE USED.

DUCT SIZE DESIGNATION:

1ST FIGURE SIDE SHOWN. (SIZE

ALLOWANCE HAS NOT BEEN MADE

FOR INTERIOR INSULATION WHERE

SHOWN IS FREE AREA SIZE,

 $\overline{\mathbf{Y}}$

Н

1000

24" x 12" RA

24"/12"

- 17. PROVIDE 1-1/2 HOUR RATED FIRE DAMPERS IN THE DUCTWORK WHERE INDICATED ON THE PLANS AND REQUIRED BY CODE. FIRE DAMPERS SHALL BE PROVIDED WITH AN ACCESS PANEL LARGE ENOUGH TO PERMIT INSPECTION AND MAINTENANCE OF THE DAMPER. ACCESS PANELS TO FIRE DAMPERS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR BY A NAMEPLATE WITH THE WORDS "FIRE DAMPER". THE LETTERS ON THE FIRE DAMPER LABELS SHALL NOT BE LESS THAN 1/2 INCH IN HEIGHT.
- 18. THE SPACE ABOVE THE SUSPENDED CEILINGS SHALL BE USED AS A RETURN AIR PLENUM. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE THE WORK OF OTHER TRADES TO PROVIDE ADEQUATE SPACE FOR THE FLOW OF RETURN AIR (250 FPM MAXIMUM VELOCITY). WHERE PARTITIONS EXTEND TO THE CONSTRUCTION ABOVE, OPENINGS SHALL BE PROVIDED IN THE PARTITION ABOVE THE CEILING.
- 19. DUCT DIMENSIONS NOTED ON THE DRAWINGS ARE NET FREE AREA. WHERE ACOUSTIC LINER IS INDICATED OR SPECIFIED THE SHEET METAL SIZE MUST BE INCREASED TO ACCOMMODATE THE LINER.
- 20. AREAS ABOVE THE CEILING SERVE AS A RETURN AIR PLENUM. ALL 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 SIZE AS THE NECK OF THE AIR DEVICE UNLESS NOTED OTHERWISE.
- 22. DIRECTIONAL ARROWS ON AIR DEVICES INDICATE THROWS FOR AIR DEVICE. VERIFY PROPER ADJUSTMENT OF THROW DEFLECTION VANES OF ALL AIR DEVICES PRIOR TO BEGINNING BALANCING. WHERE NO ARROWS SHOW, THROW SHALL BE 4-WAY.
- 23. ALL BATHROOM EXHAUST DUCTWORK SHALL BE EXTERNALLY INSULATED.
- 24. EXPOSED GALVANIZED DUCTWORK SHALL BE PAINTABLE. GENERAL CONTRACTOR TO PAINT ALL EXPOSED DUCTWORK. FINAL COLOR TO BE APPROVED BY THE ARCHITECT.

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. PIPING SPECIALTIES HEATING AND VENTILATION SYMBOLS SA SOUND ATTENUATOR CONDENSING WATER SUPPLY ────── GV GATE VALVE CV CHECK VALVE CONDENSING WATER RETURN FC FLEXIBLE CONNECTION ─────────── GLV GLOBE VALVE ——DTS —— DUAL TEMPERATURE SUPPLY BLV BALL VALVE SPLITTER DAMPER _____ ——DTR —— DUAL TEMPERATURE RETURN STR STRAINER — J U UNION ——FOS —— FUEL OIL SUPPLY MANUAL VOLUME DAMPER ——Ø— BC BALANCING COCK ——FOR —— FUEL OIL RETURN GRAVITY BACKDRAFT DAMPER SOC SHUT-OFF COCK ——FOV —— **FUEL OIL VENT** SLV SOLENOID VALVE MAKE - UP WATER LINE ----MWI -----BFV BUTTERFLY VALVE DRAIN LINE (OTHER THAN PLUMBING) MOTORIZED VOLUME DAMPER FS FLOW SWITCH VENT LINE (OTHER THAN PLUMBING) ____VI ____ VALVE W/ SUPERVISORY SWITCH FIRE DAMPER <>> FD REFRIGERANT DISCHARGE FCV FLOW CONTROL VALVE (GPM INDICATED) ——RD—— —— RI —— REFRIGERANT LIQUID T&PR TEMPERATURE AND PRESSURE RELIEF VALVE () SD SMOKE DAMPER REFRIGERANT SUCTION ——RS—— PG PRESSURE GAUGE —— G —— Q TH THERMOMETER (TUBE OR DIAL AS INDICATED) ◆ FSD FIRE DAMPER ——cws—— CHILLED WATER SUPPLY **————** PRV PRESSURE REDUCING VALVE --CWR--CHILLED WATER RETURN DIRECTION OF FLOW TURNING VANES COMPRESSED AIR **ANCHORS** —— CA—— PIPE GUIDES RETURN/TRANSFER/COMBUSTION AIR DISCHARGE DUCT UP LOW PRESSURE STEAM —— I PS —— ——MPS—— MEDIUM PRESSURE STEAM MV MOTORIZED VALVE RETURN/TRANSFER/COMBUSTION AIR DISCHARGE DUCT DOWN ——LPC—— LOW PRESSURE CONDENSATE DV DIAPHRAGM VALVE SUPPLY AIR/COMBUSTION AIR INTAKE UP --MPC--MEDIUM PRESSURE CONDENSATE LPV LUBRICATED VALVE SUPPLY AIR/COMBUSTION AIR INTAKE DOWN HIGH PRESSURE STEAM ——HPS —— HEV HOSE END VALVE EXHAUST AIR DUCT UP HIGH PRESSURE CONDENSATE --HPC--SWV STOP AND WASTE VALVE CONDENSATE PUMP DISCHARGE —— CPD —— EXHAUST AIR DUCT DOWN TWV 3-WAY VALVE **HEATING WATER SUPPLY** ——HWS—— (MIXING OR BY-PASS AS INDICATED) ROUND DUCT DOWN HEATING WATER RETURN ——HWR—— PETES PLUG ROUND DUCT UP INCLINED DROP IN THE DIRECTION OF AIR FLOW RV RELIEF VALVE \mathbb{R} NITROGEN OXIDE SENSOR (NOS) FC FLEXIBLE PIPE CONNECTION INCLINED RISE IN THE DIRECTION OF AIR FLOW **ECCENTRIC DUCT TRANSITION** THERMOSTAT / TEMPERATURE SENSOR AVM AIR VENT (MANUAL) CONCENTRIC DUCT TRANSITION TEMPERATURE SENSOR RECTANGULAR DUCT TO ROUND DUCT TRANSITION AVA AIR VENT (AUTOMATIC) FLEXIBLE DUCT CARBON MONOXIDE SENSOR EX EXPANSION JOINT CEILING AIR DEVICE CCR CONCENTRIC REDUCER **HUMIDISTAT** AIR DEVICE THROW DESIGNATION: TEE (SIDE OUTLET UP) (HATCHING DESIGNATES ZERO THROW) TEE (SIDE OUTLET DOWN) SIDEWALL AIR DEVICE ELBOW (TURNED UP) ELBOW (TURNED DOWN) DAMPERED SHOE DUCT TAP FROM RECT. MAIN B) BMD COMBINATION BALANCING & MEASURING DEVICE MISCELLANEOUS SYMBOLS

EQUIPMENT OR PLUMBING FIXTURE DESIGNATION

(SHEET NUMBER WHERE DETAIL IS FOUND)

(SHEET NUMBER WHERE SECTION IS FOUND)

RISER DESIGNATION

· (RISER NUMBER)

(DETAIL NUMBER)

(SECTION NUMBER)

KEYED NOTES

REVISIONS

NEW CONNECTION

AIR FLOW MEASURING STATION

CONSTANT VOLUME REGULATOR

AP ACCESS PANEL

SECTION DESIGNATION

DETAIL DESIGNATION

— (RISER INDICATION P=PLUMBINGKP =KITCHENAP =ACID)

ECR ECCENTRIC REDUCER

──────

+

AFF

ACS

HSC

KEC

TCC

——— FMD FLOW MEASURING DEVICE

STEAM TRAP

ELBOW

TEE

FINISH FLOOR ELEVATION

ABOVE FINISH FLOOR

BOTTOM ELEVATION

INVERT ELEVATION

PLUMBING CONTRACTOR

ELECTRICAL CONTRACTOR

HALON SUB-CONTRACTOR

MECHANICAL CONTRACTOR

FIRE PROTECTION CONTRACTOR

KITCHEN EQUIPMENT CONTRACTOR

TEMPERATURE CONTROL CONTRACTOR

TOP ELEVATION

FLOW LINE

CENTER LINE

BALANCING VALVE

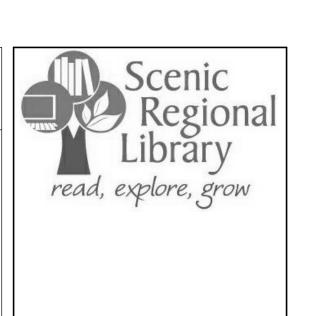
FLEXIBLE CONNECTION

GENERAL CONSTRUCTION CONTRACTOR

AUTOMATIC CONTROL SUB-CONTRACTOR

HEATING & AIR CONDITIONING CONTRACTOR

ABBREVIATIONS



CENIC REGIONA
BRARY
ILLIVAN BRANCH
5 CUMBERLAND WAY

EIVA
SD
ARCHITE

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) 877-9600

F (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) 584-0540 F (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

ENGINEER OF RECORD:

PRELIMINARY NOT FOR CONSTRUCTION

DAVID E. LAUVER MO. LICENSE NO. 2007002812 BRIC MO CERTIFICATE OF AUTHORITY 2002028690

Date Description

04/14/17 ISSUED FOR BID

DRAWN BY: **AMK**

PROJECT NUMBER: 16-1161.07

SHEET TITLE:
LEGEND, SYMBOLS, NOTES, &
ABBREVIATIONS - MECHANICAL

M-001

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 THAT APPLY TO THIS

KEYED NOTES

- 1 PROVIDE A RETURN BOOT. SEE DETAIL FOR ADDTIONAL REQUIREMENTS.
- 2 ROUTE SUPPLY AND RETURN DUCTWORK UP EXTERIOR WALL. PENETRATE THROUGH WALL AT 17'-0" AFF. PROVIDE DRAINABLE ALUMINUM JACKET OVER INSULATION.
- MOUNT SLOT DIFFUSER TO SIDE WALL OF SOFFIT. SEE SECTIONS FOR MOUNTING HEIGHTS.
 SLOPE DUCT WITH ROOF SLOPE. SEE SECTION FOR FURTHER
- 4 SLOPE DUCT WITH ROOF SLOPE. SEE SECTION FOR FURTHER DETAILS.
 5 ROUTE SUPPLY AND RETURN DUCTWORK UP EXTERIOR WALL.

PENETRATE THROUGH WALL AT 14'-6" AFF. PROVIDE DRAINABLE

- ALUMINUN JACKET OVER INSULATION.

 6 8"Ø EXHAUST DUCT UP THROUGH ROOF. TERMINATE WITH GOOSENECK. SEE DETAIL FOR ADDITIONAL REQUIREMENTS.
- AIR DUCT.

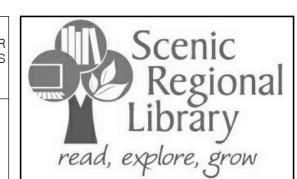
 8 TRANSITION DUCT AS REQUIRED TO CONNECT TO LOUVER. TOP OF DUCT SHALL BE FLUSH WITH TOP OF LOUVER. SLOPE BOTTOM OF DUCT DOWN TOWARDS LOUVER. TRANSITION SHALL BE A
- MINIMUM OF 12" LONG.

 9 CONTRACTOR SHALL FIELD ROUTE REFRIGERANT PIPING
 BETWEEN FC-1 AND CU-3. REFRIGERANT PIPING SHALL BE
 ROUTED ON INTERIOR OF BUILDING UNTIL PENETRATION IS
 WITHIN FENCED-IN REGION. ALL PIPING INSULATION SHALL BE
- PROVIDED WITH PAINTABLE ALUMINUM JACKETS.

 10 ROUTE CONDENSATE PIPING TO FRENCH DRAIN. LOCATE FRENCH DRAIN A MINIMUM OF 2'-0" AWAY FROM SLAB EDGE. PROVIDE SUPPORTS FOR CONDENSATE PIPING AT A MINIMUM OF 5'-0" INTERVALS. DRAIN PIPING SHALL BE COPPER.

11 ROUTE CONDENSATE DRAIN PIPING TO FLOOR DRAIN IN ROOM.

DRAIN PIPING SHALL BE COPPER.



NIC REGIONAL

RARY

IVAN BRANCH

UMBERLAND WAY

IVAN. MO 63080



ARCHITECT-OF-RECORD

3005 LOCUST ST. ST. LOUIS, MO 63103 T (314) 531-7400

CÒNTÁCT: SCOTT CLARK
E-MAIL: SCLARK@JEMASTL.COM

- DESIGN ARCHITECT
 SAPP DESIGN ASSOCIATES ARCHITECTS
 3750 SOUTH FREMONT
 SPRINGFIELD, MO 65804
- SPRINGFIELD, MO 65804 T (417) 877-9600 F (417) 877-9696
- CONTACT: JAMES STUFFLEBEAM
 E: STUFFLEBEAM@SDAARCHITECTS.COM
- COCHRAN
 530A E. INDEPENDENCE DRIVE
 UNION, MO 63084
 CONTACT: DAVE VAN LEER
- T (636) 584-0540
 F (636) 584-0512
 F-MAII : DVANI FER@COCHBAN COL
- 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

ENGINEER OF RECORD:

PRELIMINARY NOT FOR CONSTRUCTION

DAVID E. LAUVER
MO. LICENSE NO. 2007002812
BRIC MO CERTIFICATE OF
AUTHORITY 2002028690

No. Date Description

04/14/17 ISSUED FOR BID

NAME

E

ROOM A

DRAWN BY: **DEV**

PROJECT NUMBER: 16-1161.07

SHEET TITLE:
FLOOR PLAN & SCHEDULES FIRST FLOOR - MECHANICAL

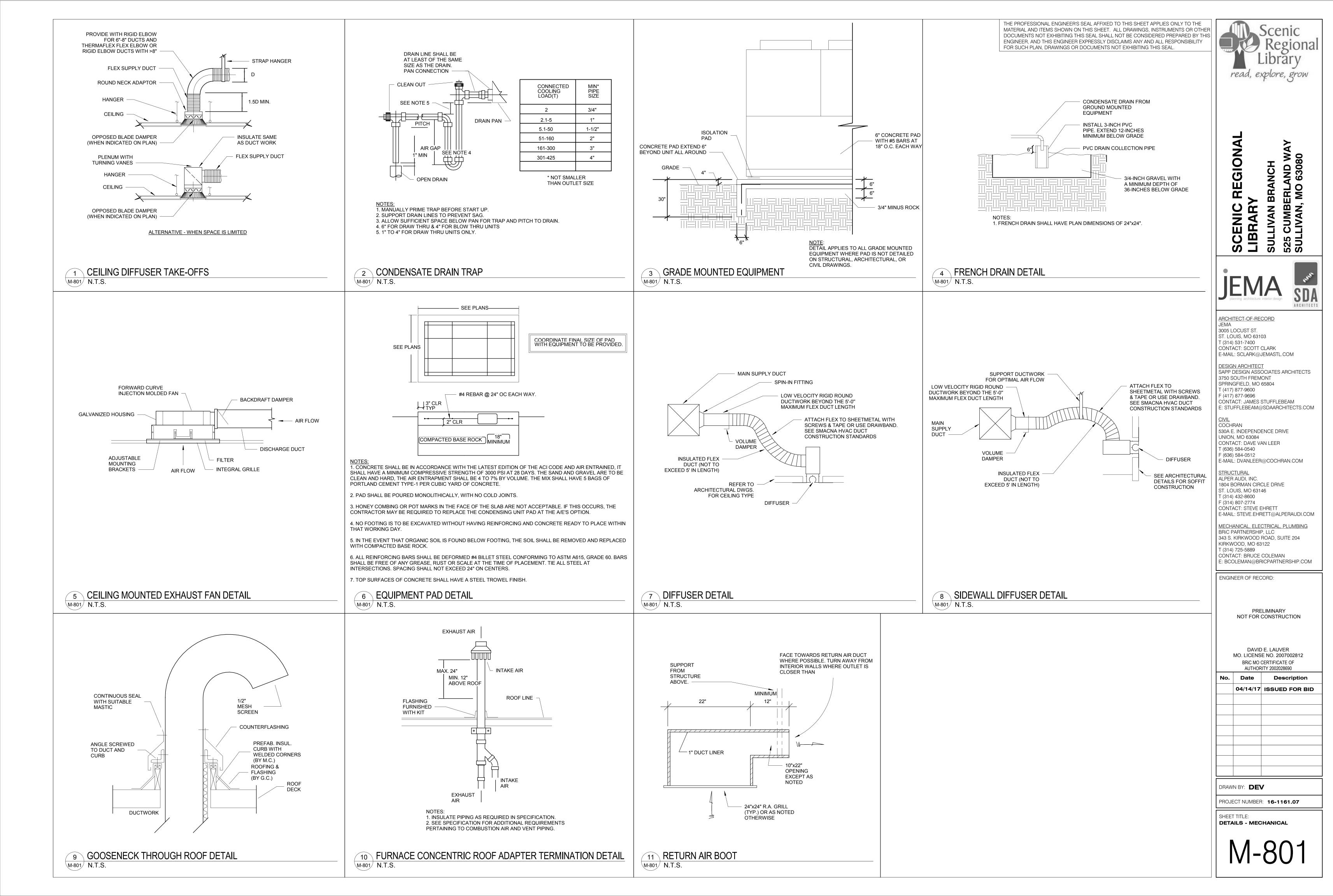
M-201

ROOM SCHEDULE

106 VESTIBULE 108 STUDY 109 STUDY 700 VESTIBULE 701 CORRIDOR 702 WOMENS 704 MEETING ROOM A 705 COATS 706 MEETING ROOM B 707 STORAGE 708 CHILDRENS AREA 709 CIRCULATION 710 ADULT AREA 711 TEEN AREA 712 WORK ROOM 713 STORAGE 714 OFFICE 715 STUDY 716 STUDY

717 CORRIDOR
718 MECH/ ELEC
719 BREAK ROOM
720 JANITORS CLOSET

721 DROP



REGION

ARCHITECT-OF-RECORD

3005 LOCUST ST. ST. LOUIS, MO 63103 T (314) 531-7400 CÒNTÁCT: SCOTT CLARK E-MAIL: SCLARK@JEMASTL.COM

DESIGN 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

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 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

ENGINEER OF RECORD:

PRELIMINARY NOT FOR CONSTRUCTION

DAVID E. LAUVER MO. LICENSE NO. 2007002812

BRIC MO CERTIFICATE OF AUTHORITY 2002028690 Description

04/14/17 ISSUED FOR BID

DRAWN BY: **AMK**

PROJECT NUMBER: **16-1161.07**

SCHEDULES - MECHANICAL

	PACKAGED AIR HANDLING UNIT SCHEDULE																	
PLAN MARK					EXTERNAL	COOLING PERFORMANCE HEATING PERF						RFORMAN	CE		MAX			
		SUPPLY	MINIMUM	MINIMUM	STATIC						TOTAL						OPERATING	
		AIRFLOW	OUTSIDE AIR	HEATING	PRESSURE			AMBIENT			CAPACITY			INPUT	OUTPUT	REFRIGERANT	WEIGHT	
	MANUFACTURER MODE	CFM	FLOW CFM	CFM	(IN. WG)	EDB (°F)	EWB (°F)	(°F)	LDB (°F)	LWB (°F)	(MBh)	EDB (°F)	LDB (°F)	(MBh)	CAP. (MBh)	USED	(LBS)	NOTES
AHU 1	JOHNSON CONTROLS, INC. ZST2N30	6000	1500	1500	1.00	80	66	95	53.3	52.0	241.0	40	77.0	300	240	R-410A	2763	1 , 2, 3
AHU 2	JOHNSON CONTROLS, INC. ZST06N12	A 2200	550	800	1.00	79	65	95	55.1	53.6	72.2	44	84.2	120	96	R-410A	955	1 , 2, 3

SEE SHEET E-901 FOR ELECTRICAL REQUIREMENTS. HEATING PERFORMANCE BASED ON FULL FLOW AND MINIMUM OUTSIDE AIRFLOW. 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.

LOW ROOF BMD 14"x22" SA-12"x10" SA---

	FURNACE SCHEDULE																	
PLAN I	MARK				SUPPLY FAN				DX CIRCU	JITING				GAS HEAT	TING COIL			
				SUPPLY	OUTSIDE	MOTOR	TOTAL SENSIBLE EAT LAT		AT	MBH	MBH			WEIGHT				
		MANUFACTURER	MODEL	CFM	AIR CFM	H.P	MBH	MBH	DB (°F)	WB (°F)	DB (°F)	WB (°F)	INPUT	OUTPUT	EAT (°F)	LAT (°F)	(LBS.)	NOTES
FC	1	GUARDIAN	RGF19100	1600	160	0.75	46	33.5	80.0	67.0	60.6	58.0	100	95	60	115	145	1

1. SEE SHEET E-901 FOR ELECTRICAL REQUIREMENTS.

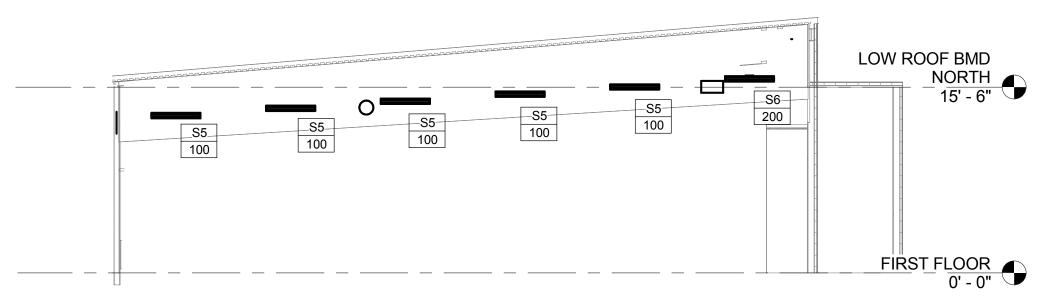
	CONDENSING UNIT SCHEDULE										
	PLAN	MARK			ASSOCIATED	COOLING	REFRIGERANT				
			MANUFACTURER	MODEL	INDOOR UNIT	CAPACITY (MBh)	TYPE	NOTES			
Ī	CII	1	GUARDIAN	RCΔ	FC-1	48.0	R410A	1			

1. SEE SHEET E-901 FOR ELECTRICAL REQUIREMENTS.

1 AHU-2 DUCTWORK THROUGH 709 CIRCULATION M-901 1/8" = 1'-0"

2 SIDEWALL DIFFUSERS IN 709 CIRCULATION

M-901 1/8" = 1'-0"



	AIR DEVICE SCHEDULE													
TYPE				CONNECTION			MAX	THROW	MAX NC	AIR TERMINAL STATIC PRESSURE				
MARK	MANUFACTURER	MODEL	STYLE	SIZE	LENGTH	WIDTH	FLOW	(FT)	LEVEL	(IN-WG)	MATERIAL	FINISH	MOUNTING TYPE	NOTES
S1	TITUS	OMNI	SQUARE PLAQUE	6"ø	12"	12"	100	5	30	0.10	STEEL	BWE	LAY-IN	1
S2	TITUS	OMNI	SQUARE PLAQUE	6"ø	24"	24"	160	5	30	0.10	STEEL	BWE	LAY-IN	1
S3	TITUS	OMNI	SQUARE PLAQUE	8"ø	24"	24"	280	12	30	0.10	STEEL	BWE	LAY-IN	1
S4	TITUS	OMNI	SQUARE PLAQUE	10"ø	24"	24"	420	13	30	0.10	STEEL	BWE	LAY-IN	1
S5	TITUS	FL-10	ONE 1" SLOT HIGHTHROW	6"ø	48"	3 3/4"	150	25	30	0.10	STEEL	BWE	LAY-IN	1
S6	TITUS	FL-10	TWO 1" SLOT HIGHTHROW	8"ø	48"	5 5/16"	300	16	30	0.10	STEEL	BWE	LAY-IN OR SURFACE MOUNT	
R1	TITUS	350RL	GRILL	6"ø	24"	24"	160	-	30	0.10	STEEL	BWE	LAY-IN	1
R2	TITUS	350RL	GRILL	10"ø	24"	24"	420	-	30	0.10	STEEL	BWE	LAY-IN	1
R3	TITUS	350RL	GRILL	22"x22"	24"	24"	1500	-	30	0.10	STEEL	BWE	LAY-IN	1

PROVIDE EARTHQUAKE TABS.

(B.3) (B.2) (C)CONTRACTOR SHALL FIELD VERIFY MEASUREMENT OF SPECIALTY ANGLE. __12"x16" SA LOW ROOF BMD 20"x32" SA NORTH 15' - 6" -12"x10" SA -18"x12"12"x10" SA ¹2"x16" SA

	LOUVER SCHEDULE									
PLAN MARK					DIMENSIONS		MAX P.D.			
		MANUFACTURER	MODEL	CFM	(IN.)	FREE AREA (%)	IN W.C.	MATERIAL	NOTES	
LV	1	RUSKIN	ELF6375DX	160	12 x 12	57	0.10	ALUMINUM	1,2	

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	0.12	1200	3.4	98	1		
EF	2	LOREN COOK	GC-162	150	0.12	1200	3.4	98	1		

SEE SHEET E-901 FOR ELECTRICAL REQUIREMENTS.

3 AHU-1 DUCTWORK THROUGH 709 CIRCULATION M-901 1/8" = 1'-0"

PLUMBING GENERAL NOTES - PLUMBING SHEETS ONLY

- 1. PIPING DRAWINGS ARE TO BE CONSIDERED SCHEMATIC AND ARE NOT INTENDED TO INDICATE ALL CHANGES IN DIRECTION. ALL NECESSARY FITTINGS TO BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. PIPE AND FITTINGS MUST BE INSTALLED SO THAT ALL PIPE AND/OR INSULATION COMPLETELY CLEARS ALL NEARBY STRUCTURES, PIPING AND ITEMS BY OTHER CONTRACTORS.
- 2. CONTRACTOR SHALL VERIFY EXACT LOCATION, CONDITION, ELEVATION AND SIZES OF UTILITIES AT SITE BEFORE PROCEEDING WITH WORK.
- 3. PLUMBING CONTRACTOR TO COORDINATE THE INSTALLATION OF ALL PIPING, VALVES, AND EQUIPMENT WITH GENERAL CONTRACTOR AND RELATED STRUCTURAL, MECHANICAL, ELECTRICAL, AND FIRE PROTECTION CONTRACTORS.
- 4. ALL FIXTURES AND PIPING SHALL BE SIZED, VENTED, TRAPPED AND INSTALLED IN ACCORDANCE WITH INTERNATIONAL PLUMBING CODE 2003 EDITION AND INTERNATIONAL BUILDING CODE 2003 EDITION.
- 5. CONTRACTOR SHALL PROTECT ALL ADJACENT AREAS DURING ALL PHASES OF CONSTRUCTION.
- 3. ANY HOLES LEFT IN WALL CONSTRUCTION DUE TO WORK SHALL BE PATCHED AND PAINTED BY THIS CONTRACTOR TO MATCH CONSTRUCTED CONDITIONS. COORDINATE FINISH AND MATERIALS WITH ARCHITECT.
- 7. PLUMBING CONTRACTOR TO FURNISH AND INSTALL SUPPLY STOP SHUT-OFF VALVES ON ALL FIXTURE WATER SUPPLY LINES. FURNISH AND INSTALL WATER HAMMER ARRESTORS AS INDICATED ON PLANS. INSTALL VALVES IN ACCESSIBLE LOCATION. IF LOCATION IS NOT READILY ACCESSIBLE, COORDINATE ACCESS PANEL REQUIREMENTS WITH GENERAL CONTRACTOR.
- 8. PLUMBING CONTRACTOR TO FURNISH AND INSTALL SHUT-OFF VALVES AND ACCESS PANELS AT THE BASE OF ALL WATER SUPPLY PIPING RISERS.
- 9. PLUMBING CONTRACTOR TO PROVIDE CLEANOUT AT THE BASE OR NO MORE THAN 4 FT ABOVE FLOOR OF ALL WASTE, AND SANITARY STACKS
- 10. 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 PROPER CIRCULATION.
- 11. 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.
- 12. 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
- 13. ALL PIPING SHALL BE CONCEALED IN CHASE, WALLS, CEILING, FLOORING, ETC. UNLESS OTHERWISE NOTED. PIPING SHOWN OUTSIDE OF WALL FOR CLARITY ONLY.

- 14. REFER TO PLUMBING FIXTURE SCHEDULE FOR WASTE, VENT AND SUPPLY SIZES TO INDIVIDUAL FIXTURES.
- 15. EQUIPMENT AND FIXTURE SYMBOLOGY MAY NOT REFLECT ACTUAL TYPE. REFER TO SPECIFICATIONS AND SCHEDULES FOR FIXTURE OR EQUIPMENT TYPE.
- 16. FIRE CAULK ALL PIPING PENETRATIONS THROUGH FIRE RATED PARTITIONS TO MAINTAIN FIRE RATING OF PARTITION. CONTRACTOR TO FIRESTOP ALL PENETRATIONS THROUGH FIRE-RATED FLOORS AND WALLS CREATED BY NEW WORK WITH "SPECSEAL SSS" OR EQUAL.
- 17. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL CONCRETE EQUIPMENT PAD FOR ALL EQUIPMENT SUPPLIED BY THIS CONTRACTOR. PAD SHOULD BE A MINIMUM OF 4" THICK.
- 18. 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 ENGINEER PRIOR TO THE BID DUE DATE.
- 19. CAULK ALL PIPING PENETRATIONS THROUGH WALLS TO MINIMIZE SOUND PENETRATION THROUGH WALLS.
- 20. INVERT ELEVATIONS ARE BASED ON FIRST FLOOR LEVEL BEING SET AT 100'-0".
- 21. LOCATIONS OF ROOF DRAINS, FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. INDICATED ON THESE DRAWINGS ARE CONSIDERED APPROXIMATE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF FINAL AND EXACT LOCATIONS WITH ALL OTHER TRADES AND EQUIPMENT SUPPLIERS PRIOR TO INSTALLATION. DRAINS, ETC., NOT CORRECTLY LOCATED AS DETERMINED BY THE ARCHITECT/ENGINEER/OWNER SHALL BE REMOVED AND RELOCATED AT THIS CONTRACTOR'S EXPENSE.
- 22. ALL VTR'S SHALL BE LOCATED A MINIMUM OF 12'-0" FROM AIR INTAKES ON MECHANICAL ROOFTOP EQUIPMENT. COORDINATE WITH ALL TRADES PRIOR TO INSTALLATION.
- 23. 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 CEILING TO BE STEEL WITH WELDED JOINTS. ALL POLYPROPYPLENE WATER PIPING ABOVE CEILING SHALL BE WRAPPED TO ACHIEVE 25/50 SMOKE/FLAME SPREAD RATING.
- 24. MAKE ALL FINAL PLUMBING CONNECTIONS TO PLUMBING FIXTURES AND EQUIPMENT SHOWN ON PLANS.
- 25. EXCAVATION, BEDDING AND BACKFILL ASSOCIATED WITH BELOW SLAB PIPING INSTALLATION SHALL BE CONSIDERED PART OF THE PLUMBING CONTRACTOR'S WORK.
- 26. STARTING ELEVATION FOR SANITARY SEWER PIPING TO BE NOT LESS THAN 1'-6" BELOW FINISHED FLOOR UNLESS NOTED OTHERWISE.
- 27. 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.

PLUMBING FIXTURE SCHEDULE (BASIS OF DESIGN)										
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 SCHEDULE (BASIS OF DESIGN)										
MARK	MANUFACTURER	JFACTURER MODEL# GRATE BODY STRAINER NOTES									
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.					

TES NB NICKEL BRONZE

SS STAINLESS STEEL

CI CAST IRON
- INDICATES NOT APPLICABLE

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

(1) SEE SHEET E-901 FOR ELECTRICAL INFORMATION.

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.

PLUMBING SYMBO	LS AND ABBREVIATIONS
SYMBOL	DESCRIPTION
	DIRECTION OF FLOW OR SLOPE DOMESTIC COLD WATER (CW) DOMESTIC HOT WATER (HW) HOT WATER CIRCULATING (HWC) SANITARY SEWER (S) SANITARY SEWER BELOW SLAB (S) VENT (V)
ST	STORM SEWER BELOW SLAB (ST)
	NATURAL GAS (G) RISE OR UP DROP OR DOWN BRANCH CONNECTION - TOP
	BRANCH CONNECTION - BOTTOM
I	CLEANOUT
	CAP / PLUG
—————————————————————————————————————	FIXTURE TRAP
	VALVE
	CHECK VALVE
.1.	STRAINER
	UNION
	GAS VALVE
	PRESSURE REGULATOR - GAS
	METER
	DOMESTIC CIRCULATING PUMP (DCP)
A	PRESSURE/TEMPERATURE RELIEF VALVE
	DOUBLE CHECK BACKFLOW PREVENTER (BFF
0	FLOOR DRAIN (FD)
\odot	FLOOR CLEANOUT (FCO)
1	KEYED NOTE
$\langle \overline{XXX} \rangle$	MISCELLANEOUS EQUIPMENT TAG
ADA	AMERICANS WITH DISABILITIES ACT
BTC CFH	BRANCH TO CONNECTION
CI	CUBIC FEET PER HOUR CAST IRON
со	CLEANOUT
DN	DOWN
DP DS	DROP DOWNSPOUT
DWV	DRAIN WASTE VENT
EWC	ELECTRIC WATER COOLER
EXIST. FCO	EXISTING
FLA	FLOOR CLEANOUT FULL LOAD AMPS
GPH	GALLONS PER HOUR
GPM I.E. OR INV. ELEV.	GALLONS PER MINUTE
I.E. OR INV. ELEV.	INVERT ELEVATION LAVATORY
MB	MOP BASIN
M.C.	MECHANICAL CONTRACTOR
N.C. ODN	NORMALLY CLOSED OVERFLOW DOWN SPOUT NOZZLE
ODS	OVERFLOW DOWN SPOUT
P.C.	PLUMBING CONTRACTOR
SK SQ. FT.	SINK SQUARE FEET
SS	SANITARY STACK
TMV	THERMOSTATIC MIXING VALVE
TYP	TYPICAL
UR VS	URINAL VENT STACK
VS VTR	VENT STACK VENT THRU ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH WHA	WALL HYDRANT WATER HAMMER ARRESTOR
YCO	WATER HAMMER ARRESTOR YARD CLEAN OUT
*NOTE: NOT ALL SYMBOLS/ABBR	EVIATIONS USED FOR THIS PROJECT.



d, explore, grow

SCENIC REGIONALIBRARY
SULLIVAN BRANCH
25 CUMBERLAND WAY



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) 877-9600
F (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) 584-0540

T (314) 432-8600

F (636) 584-0512
E-MAIL: DVANLEER@COCHRAN.COM

STRUCTURAL
ALPER AUDI, INC.
1804 BORMAN CIRCLE DRIVE
ST. LOUIS, MO 63146

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

ENGINEER OF RECORD:

PRELIMINARY NOT FOR CONSTRUCTION

DAVID E. LAUVER MO. LICENSE NO. 2007002812 BRIC MO CERTIFICATE OF

Date Description
04/14/17 ISSUED FOR BID

AUTHORITY 2002028690

DRAWN BY: AMK

PROJECT NUMBER: 16-1161.07

LEGEND, SYMBOLS, NOTES,
ABBREVIATIONS, & SCHEDULES PLUMBING

P-001

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

KEYED NOTES

1 SEE CIVIL PLAN FOR CONTINUATION.

- 2 2" SANITARY UP TO SK-1.
- 3 4" SANITARY UP TO WC-1.
- 4 4" SANITARY UP TO FD-1.
- 5 2" SANITARY UP TO TWO LAV-1.
- 6 2" SANITARY UP TO EWC-1. 7 4" SANITARY UP TO FCO.
- 8 2" SANITARY UP TO MSB-1.
- 9 2" SANITARY UP TO UR-1.

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

ARCHITECT-OF-RECORD JEMA

REGIONAL

SCENIC

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) 877-9600 F (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) 584-0540
- F (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 CÒNTÁCT: 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

ENGINEER OF RECORD:

PRELIMINARY NOT FOR CONSTRUCTION

DAVID E. LAUVER MO. LICENSE NO. 2007002812 BRIC MO CERTIFICATE OF AUTHORITY 2002028690

Date Description 04/14/17 ISSUED FOR BID

DRAWN BY: **DEV** PROJECT NUMBER: **16-1161.07**

FLOOR PLAN - FOUNDATION -**PLUMBING**

ROOM SCHEDULE NUMBER 106 VESTIBULE 108 STUDY 109 STUDY 700 VESTIBULE 701 CORRIDOR 702 WOMENS 704 MEETING ROOM A 705 COATS 706 MEETING ROOM B 707 STORAGE 708 CHILDRENS AREA 709 CIRCULATION 710 ADULT AREA 711 TEEN AREA 712 WORK ROOM 713 STORAGE 714 OFFICE 715 STUDY 716 STUDY 717 CORRIDOR

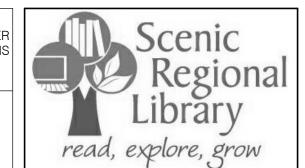
718 MECH/ ELEC 719 BREAK ROOM 720 JANITORS CLOSET

721 DROP

FLOOR PLAN - FIRST FLOOR - PLUMBING

P-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

- # 1/2" CW AND HW DOWN TO MSB-1.
- 1 1/2" CW AND HW DOWN TO AND 2" VENT UP FROM SK-1.
- 1 1/4" CW DOWN TO AND 2" VENT UP FROM WC-1.
 1/2" CW AND HW DOWN TO AND 1 1/2" VENT UP FROM LAV-1.
- 4 1/2" CW DOWN TO AND 1 1/2" VENT UP FROM EWC-1.
 5 3/4" CW DOWN TO WH-1 AND MOUNT WH-1 18" ABOVE GRADE.
- 6 SEE DETAIL FOR EWH-1 PIPING REQUIREMENTS.
- 7 3/4" NG DOWN TO FIREPLACE. ROUTE IN WALL. COORDINATE EXACT LOCATION WITH FIREPLACE CONNECTION.
- 8 LOCATION OF GAS METER. SEE DETAIL FOR INSTALLATION REQUIREMENTS.
- 9 CONNECT 3/4" NG DOWN THROUGH WALL. PENETRATE WALL 18" AFF. ROUTE TO AHU-1. SUPPORT PIPING ON GROUND.
- 10 DROP PIPING THROUGHOUT BUILDING TO COORDINATE WITH ROOF AND CEILING SLOPE.
- 11 3/4" NG DOWN TO FC-1.
- 12 1/2" CW DOWN TO OB-1. INSTALL OB-1 UNDER COUNTER.
- 13 3/4" NG DOWN THROUGH WALL. PENETRATE WALL 18" AFF. ROUTE TO AHU-2. SUPPORT PIPING ON GROUND.

JEMA SI

REGION

ARCHITECT-OF-RECORD

ST. LOUIS, MO 63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAIL: SCLARK@JEMASTL.COM

3005 LOCUST ST.

<u>DESIGN ARCHITECT</u> SAPP DESIGN ASSOCIATES ARCHITECTS 3750 SOUTH FREMONT

- 3750 SOUTH FREMONT SPRINGFIELD, MO 65804 T (417) 877-9600
- F (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) 584-0540
- F (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

ENGINEER OF RECORD:

PRELIMINARY NOT FOR CONSTRUCTION

DAVID E. LAUVER MO. LICENSE NO. 2007002812 BRIC MO CERTIFICATE OF AUTHORITY 2002028690

ROOM SCHEDULE

No. Date Description

04/14/17 ISSUED FOR BID

NUMBER 106 VESTIBULE 108 STUDY 109 STUDY 700 VESTIBULE 701 CORRIDOR 702 WOMENS 704 MEETING ROOM A 705 COATS 706 MEETING ROOM B 707 STORAGE 708 CHILDRENS AREA 709 CIRCULATION 710 ADULT AREA 711 TEEN AREA 712 WORK ROOM 713 STORAGE

714 OFFICE

715 STUDY
716 STUDY
717 CORRIDOR
718 MECH/ ELEC
719 BREAK ROOM
720 JANITORS CLOSET

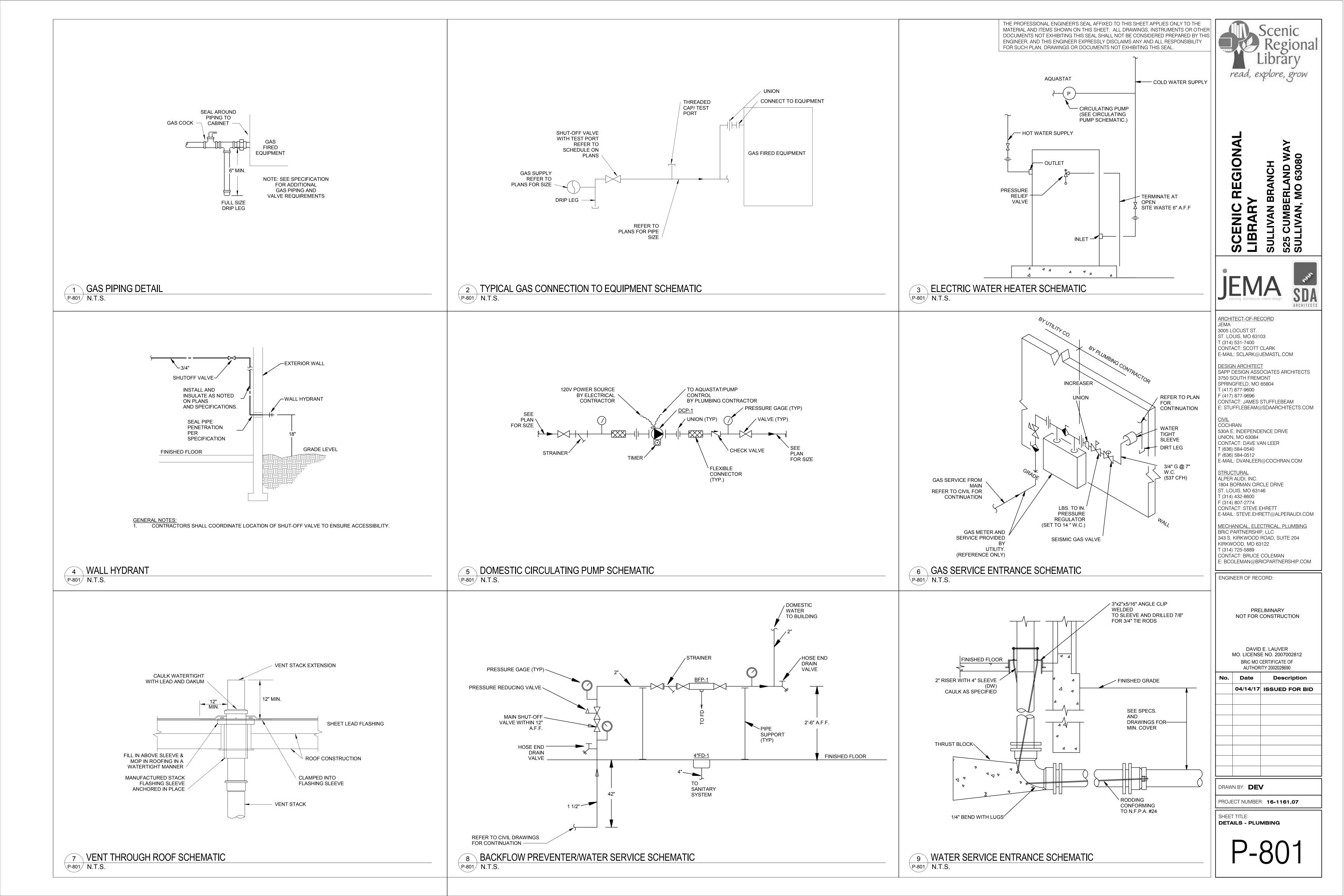
721 DROP

PROJECT NUMBER: 16-1161.07

SHEET TITLE:
FLOOR PLAN - FIRST FLOOR PLUMBING

DRAWN BY: **DEV**

P-201



ELECTRICAL ABBREVIATIONS:

- A.F. AMP FUSE. USED IN CONJUNCTION WITH "A.S."
- A.F.F. ABOVE FINISHED FLOOR.
- A.S. AMP SWITCH USED IN CONJUNCTION WITH "A.F." OR "N.F."
- IN STATEMENT IS ABBREVIATION FOR "CONDUIT."
- CAFCI COMBINATION ARC FAULT CIRCUIT INTERRUPTER BREAKER.
- CKT CIRCUIT.
- CLG INSTALL DEVICE EITHER AT OR 12" BELOW FINISHED CEILING.
- E.C. ELECTRICAL CONTRACTOR (DIVISION 16)
- E.M. EQUIPMENT MANUFACTURER.
- ETR EXISTING TO REMAIN.
- EX INDICATES DEVICE IS EXISTING.
- F.B.O. FURNISHED BY OTHERS
- FS FUSIBLE SWITCH.
- GARAGE DOOR INSTALLER.
- GROUND FAULT INTERRUPT PROTECTION.
- HORSEPOWER
- ISOLATED / INSOLATED GROUND DEVICE
- LVC LOW VOLTAGE CONTRACTOR
- M.C. MECHANICAL CONTRACTOR (DIVISION 15).
- NOT FUSED / NON-FUSIBLE SWITCH.
- NIC NOT IN CONTRACT.
- OC 6" OVER (ABOVE) COUNTER LEVEL.
- P.C. PLUMBING CONTRACTOR (DIVISION 15).
- REL RELAY.
- TV TELEVISION
- U.N.O. UNLESS NOTED OTHERWISE.
- UCR UNDER COUNTER REFRIGERATOR.
- UPS UNINTERRUPTIBLE POWER SUPPLY.
- VFD VARIABLE FREQUENCY DRIVE
- WALL MOUNTED DEVICE (48" A.F.F.)
- WP WEATHERPROOF IN-USE COVER.

ELECTRICAL INSTALLATION NOTES:

- 1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADAAG (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES)
- 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.
- 3. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, AND IN FLOOR 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.
- 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 ARCHITECT / ENGINEER.
- 5. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL DETECTORS AND . OR SPEAKERS WITH LUMINARIES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
- 6. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND 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.
- 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 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.
- 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 SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- 10. ALL FINAL ELECTRICAL 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.
- 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.

ELECTRICAL SYMBOLS:

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

- CEILING-MOUNTED JUNCTION BOX (4"x4"x1-1/2" MIN.)
- WALL-MOUNTED JUNCTION BOX (4"x4"x1-1/2" MIN.)
- **FLOORBOX** FB# INDICATES FLOOR BOX REQUIREMENTS
 - FB1 FLOOR BOX
 - (1) 5-20 DUPLEX RECEPTACLES. COMMUNICATIONS:
 - (1) DATA OUTLETS (RJ-45). FB2 - FLOOR BOX
 - (2) 5-20 DUPLEX RECEPTACLES.
 - COMMUNICATIONS: (2) DATA OUTLETS (RJ-45).
 - FB3 FLOOR BOX (2) 5-20 DUPLEX RECEPTACLES.
 - FB4 FLOOR BOX (1) 208V/2P BREAKER WITH

COMMUNICATIONS:

- 120V WHIP (3) #12, (1) #12 GND, 1" C WITH SHARED NEUTRAL
- PROVIDE CAT6 DATA CONNECTION PER FLOOR PLAN.
- LP1 PANELBOARD LOCATION ON PLANS. "LNL1" INDICATES DESIGNATION.
- FEEDER SCHEDULE NOTE. "A" INDICATES FEEDER IN SCHEDULE.
- MECHANICAL EQUIPMENT DESIGNATION. "CU-1" INDICATES ITEM IN MECHANICAL EQUIPMENT DATA SCHEDULE. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITION REQUIREMENTS.
- CIRCUIT CONDUIT ROUTING. " " INDICATES ONE (1) GROUND CONDUCTOR, ONE (1) NEUTRAL CONDUCTOR AND TWO (2) PHASE CONDUCTORS RESPECTIVELY. ") "INDICATES ISOLATED GROUND CONDUCTOR. ALL CONDUCTORS SHALL BE #12 AWG MINIMUM U.N.O



CONDUIT ROUTED UNDER SLAB.

CONDUIT ROUTED IN CEILING SPACE OF LEVEL BELOW.

CONDUIT ROUTED EXPOSED AS SHOWN.

CONDUIT TURNING UP.

CONDUIT TURNING DOWN.



- MOTOR STARTING SWITCH. MOUNT AT 48" A.F.F. U.N.O. "M" INDICATES MP MOTOR. "P" INDICATES WITH PILOT LIGHT.
- MOTOR CONNECTION. "1" INDICATES HORSEPOWER.
- POWER POKE-THRU DEVICE. PROVIDE ADAPTER PLATE FOR FLEXIBLE CONDUIT CONNECTION.
- ELECTRICAL DISCONNECT, SUBTEXT DENOTES DISC. AMP RATING AND "3-POLE NUMBER OF CONDUCTORS.
- PUSHBUTTON

COMMUNICATION SYMBOLS:

- COMMUNICATION ROUGH-IN ONLY WALL BOX. PROVIDE MINIMUM 4" x 4" x 2-1/8" DEEP BOX MOUNTED 18" ABOVE FLOOR. UNLESS NOTED OTHERWISE PROVIDE SINGLE GANG MUD RING AND 3/4" CONDUIT WITH BUSHING ROUTED INTO AN ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING AND BLANK FACEPLATE.
- COMMUNICATION OUTLET IN RECESSED WALL BOX. PROVIDE MINIMUM 4" x 4" x 2-1/8" DEEP BOX MOUNTED 18" ABOVE FLOOR. UNLESS NOTED OTHERWISE PROVIDE SINGLE GANG MUD RING AND 3/4" CONDUIT WITH BUSHING ROUTED INTO AN ACCESSIBLE CEILING SPACE. PROVIDE CABLING AND JACKS AS DENOTED (SEE BELOW), "#A" (TYPICAL) INDICATES CABLING AND CONNECTIVITY REQUIREMENTS.

CABLING REQUIREMENTS

- "#A" TELEPHONE CABLE (CAT 5e)
- WALL PHONE, MOUNT 48" A.F.F. FACEPLATE SHALL HAVE BASE UNIT MOUNTING STUDS
- "#D" DATA CABLE (CAT 6).
- "WAP" WIRELESS ACCESS POINT. PROVIDE CAT6 WITH MALE
- NOTE: NUMBER (#) BEFORE CABLE TYPE INDICATES QUANTITY
- TV CONNECTION. PROVIDE WIREMOLD EVOLUTION WALL BOXES. BOX SHALL HAVE POWER AND DATA ON TOP WITH SPACE ON BOTTOM. PROVIDE 1" C. FOR DATA AND 3/4" C. FOR POWER. PROVIDE CAT6 FROM SERVER TO BOX AND PROVIDE TERMINATION TO CABLE.
- **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

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

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

DOWNLIGHT

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
- "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
- STRIP LIGHT FIXTURE.
- EMERGENCY STRIP LIGHT FIXTURE.
 - 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.

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.

OTHER:

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



SHEET KEYED NOTE "1" INDICATES NOTE #.

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.

LIGHTING CONTROL SYMBOLS:

TYPE DESIGNATION

"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.
- PHOTO CELL DEVICE

NI NETWORK INTERFACE

- CONTACTOR LIGHTING CONTROL POWER STATION. MOUNT ON 4" x 4" BOX ABOVE
- LIGHTING CONTROL PANEL. INCLUDES SYSTEM CONTROLLER. CONTAINS RELAYS.
- LLC LOCAL LIGHTING CONTROLLER. REFER TO DETAIL 1/E8.0.0
- - OCCUPANCY SENSOR, CEILING MOUNTED. WIDE ANGLE LENS. MOUNT AT 96" A.F.F. SUBSCRIPT DENOTES SENSOR TYPE. "IR"- PASSIVE INFRARED TECHNOLOGY.

BOX ABOVE ACCESSIBLE CEILING FOR SWITCHING LOCAL RECEPTACLE.

"DT"- DUAL (PIR + ULTRASONIC) TECHNOLOGY. OCCUPANCY SENSOR RELAY PACK 20A CONTACTOR MOUNTED ON J-

REFER TO POWER PLANS FOR RECEPTACLE LOCATIONS.



read, explore, grow



ARCHITECT-OF-RECORD

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) 877-9600 F (417) 877-9696 CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHITECTS.COM
- 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 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

ENGINEER OF RECORD:

PRELIMINARY

NOT FOR CONSTRUCTION

TODD L. KUNO MO. LICENSE NO. 2015017018

Date Description 04/14/17 ISSUED FOR BID

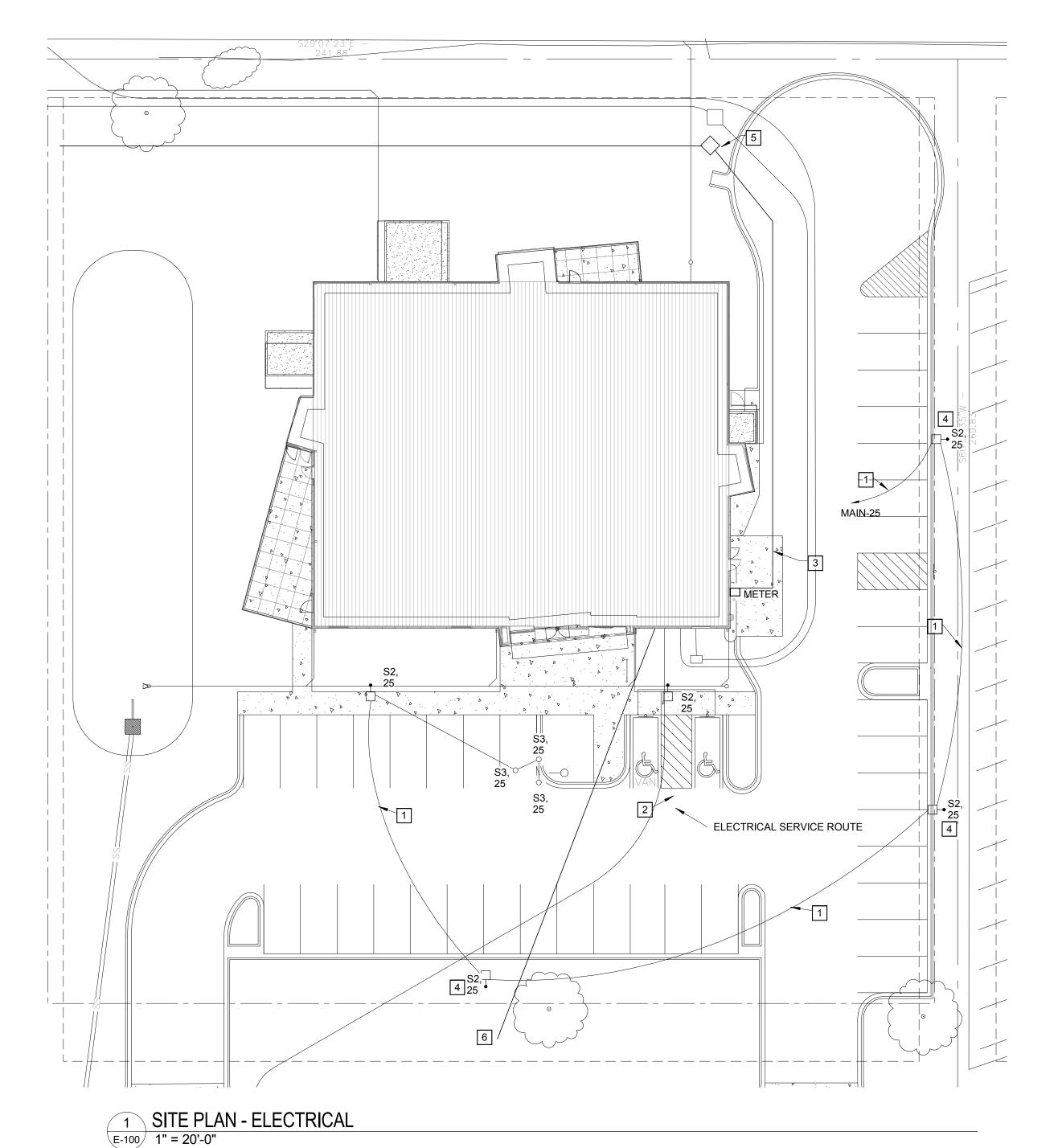
BRIC MO CERTIFICATE OF

AUTHORITY 2002028690

DRAWN BY: **TLK**

PROJECT NUMBER: **16-1161.07** LEGEND, SYMBOLS, NOTES, &

ABBREVIATIONS - ELECTRICAL



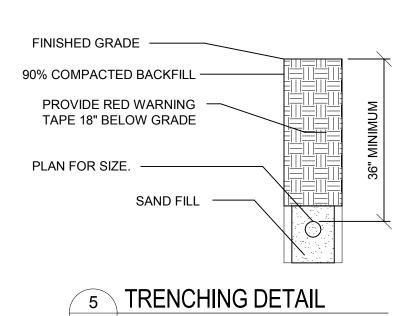
GENERAL NOTES

- PROVIDE LIGHTING CONTACTOR FOR BUILDING MOUNTED LIGHTS AND POLE SITE FIXTURES SEE DETAIL ON THIS SHEET FOR CONTACTOR. CONTACTOR SHALL BE LOCATED IN ELECTRICAL ROOM
- SEE LIGHTING PLAN FOR BUILDING MOUNTED FIXTURES.
- FLAG POLE FLOOD LIGHTS (S3 FIXTURE) SHALL BE EVENLY SPACED AROUND THE FLAG POLE APPROXIMALY 4' AWAY FROM THE FLAG POLE.
- ELECTRICAL CONTRACTOR SHALL CORRIDNATE SITE LIGHTING FIXTURES PRIOR TO INSTALLING BASE WITH CIVIL CONTRACTOR.

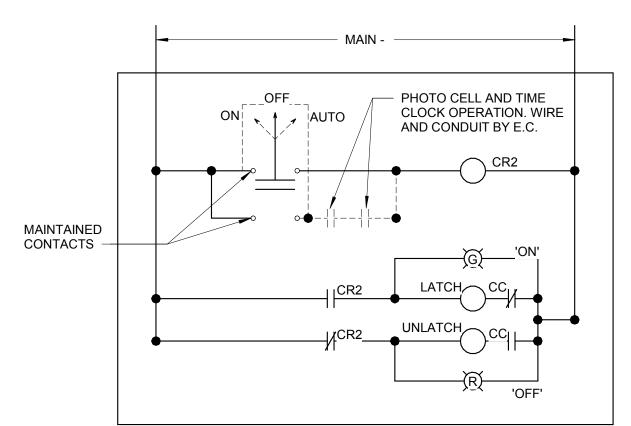
THE PROFESSIONAL ENGINEER'S SEAL AFFIXED TO THIS SHEET APPLIES ONLY TO THE MATERIAL AND ITEMS SHOWN ON THIS SHEET. ALL DRAWINGS. INSTRUMENTS OR OTHER DOCUMENTS NOT EXHIBITING THIS SEAL SHALL NOT BE CONSIDERED PREPARED BY THIS ENGINEER, AND THIS ENGINEER EXPRESSLY DISCLAIMS ANY AND ALL RESPONSIBILITY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

KEYED NOTES

- PROVIDE (2) #10, (1) #10 GND, IN 1" CONDUIT POWER TO SITE LIGHTING
- UNDERGROUND DUCTS FOR COMMUNICATIONS SERVICES. TWO (2) 2" PVC. SEE SHEET E-401 FOR CONTINUATION INTO BUILDING. COORDINATÉ WITH SERVICE PROVIDERS AND ROUTE TO POLE OR MANHOLE AS REQUIRED.
- PROVIDE 4" CONDUIT TO UTILITY SERVICE. SEE CIVIL PLAN FOR ROUTE. PROVIDE 20' RTS POLE, AND POLE BASE. SEE DETAIL ON THIS SHEET FOR
- GROUNDING, WIRING, AND BASE DETAILS. PROVIDE UTILITY APPROVED TRANSFORMER PAD FOR NEW TRANSFORMER ELECTRICAL CONTRACTOR SHALL PROVIDE 1" CONDUIT FROM BUILDING
- ELECTRICAL ROOM TO THE LOCATION INDICATED. PROVIDE PULL STRING, CAP AND LABEL CONDUIT ON EACH END. CONTRACTOR SHALL PROVIDE EXACT LOCATION OF END OF CONDUIT ON AS BUILDS.



CONTACTOR NAME	POLES / AMPS	CIRCUITS	REMARKS	CONTROL CIRCUIT
LC-A	2/30	MAIN - 25/22	BUILDING LIGHTS EXTERIOR	PC-ON/ TC-OFF/ SWITCH - OVERRIDE ON



ALL WIRING SHALL BE #10 U.N.O. MECHANICALLY HELD LIGHTING CONTACTOR

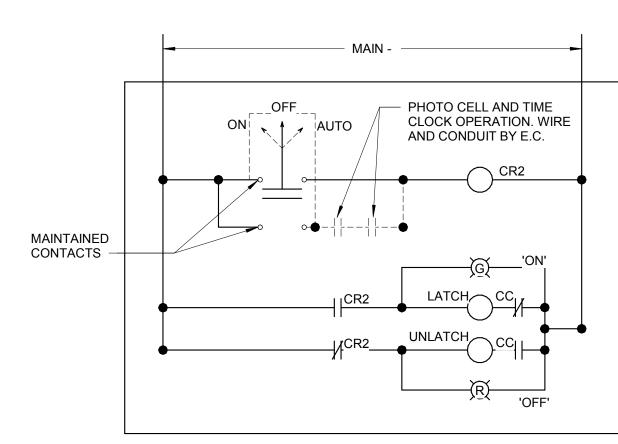
4 SITE LIGHTING CONTACTOR

E-100 N.T.S.



SITE LIGHTING CONTACTOR SCHEDULE

CONTACTOR NAME	POLES / AMPS	CIRCUITS	REMARKS	CONTROL CIRCUIT
LC-A	2/30	MAIN - 25/22	BUILDING LIGHTS EXTERIOR	PC-ON/ TC-OFF/ SWITCH - OVERRIDE ON



PROJECT NUMBER: **16-1161.07**

SITE PLAN - ELECTRICAL

DRAWN BY: **TLK**

ARCHITECT-OF-RECORD

CONTACT: SCOTT CLARK

DESIGN ARCHITECT

T (417) 877-9600 F (417) 877-9696

COCHRAN

UNION, MO 63084

T (636) 584-0540 F (636) 584-0512

STRUCTURAL ALPER AUDI, INC.

3750 SOUTH FREMONT SPRINGFIELD, MO 65804

E-MAIL: SCLARK@JEMASTL.COM

CONTACT: JAMES STUFFLEBEAM

530A E. INDEPENDENCE DRIVE

E-MAIL: DVANLEER@COCHRAN.COM

E-MAIL: STEVE.EHRETT@ALPERAUDI.COM

MECHANICAL, ELECTRICAL, PLUMBING

E: BCOLEMAN@BRICPARTNERSHIP.COM

PRELIMINARY NOT FOR CONSTRUCTION

TODD L. KUNO

MO. LICENSE NO. 2015017018

BRIC MO CERTIFICATE OF AUTHORITY 2002028690

04/14/17 ISSUED FOR BID

Description

343 S. KIRKWOOD ROAD, SUITE 204

CONTACT: DAVE VAN LEER

1804 BORMAN CIRCLE DRIVE ST. LOUIS, MO 63146 T (314) 432-8600 F (314) 807-2774

CONTACT: STEVE EHRETT

BRIC PARTNERSHIP, LLC

CONTACT: BRUCE COLEMAN

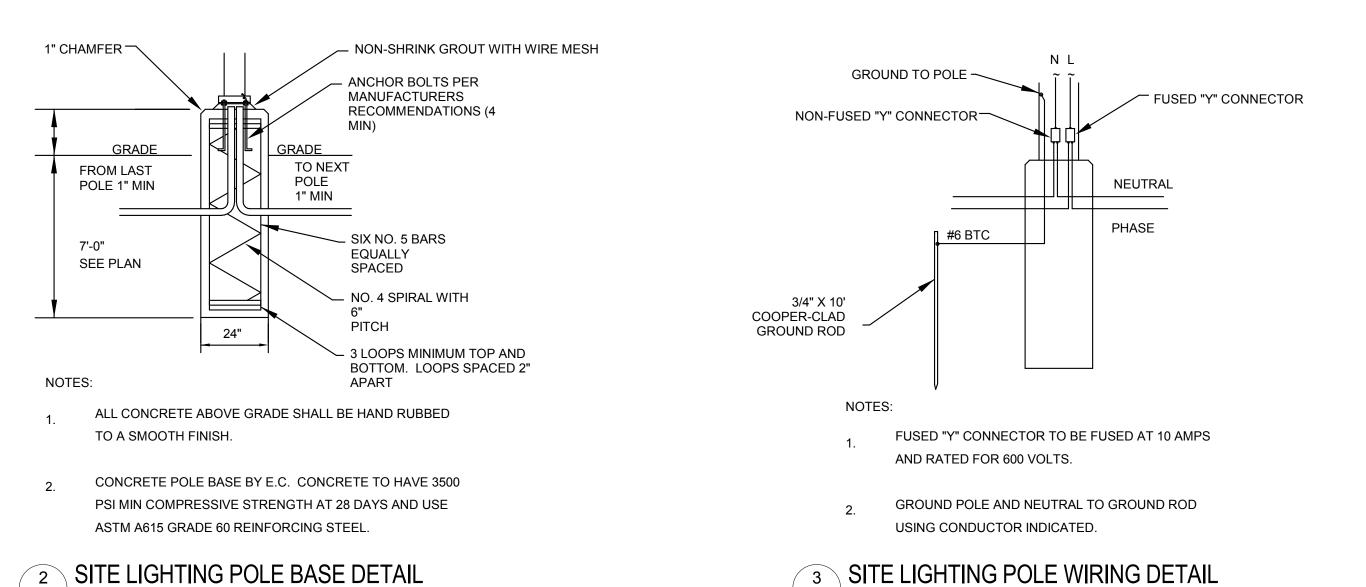
KIRKWOOD, MO 63122 T (314) 725-5889

ENGINEER OF RECORD:

SAPP DESIGN ASSOCIATES ARCHITECTS

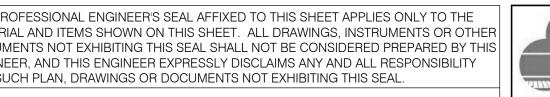
E: STUFFLEBEAM@SDAARCHITECTS.COM

3005 LOCUST ST. ST. LOUIS, MO 63103 T (314) 531-7400



E-100 N.T.S.

E-100 N.T.S.



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 THE CLOCK DETAILS. A TIME CLOCK OVERRIDE SWITCH SHALL BE PROVIDED IN THE WORK ROOM 107.
- ALL LIGHTING IN STORAGE, OFFICES, STUDIES, MECHANICAL/ELECTRICAL, MEETING ROOM AND BATHROOMS ARE CONTROLLED BY OCCUPANCY AND MOTION SENSORS.
- EGRESS LIGHTING WILL HAVE DEDICATED POWER, WHEN NO POWER IS DETECTED, EGRESS LIGHTING WILL TURN ON.
- ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTS CEILING PLAN FOR FINAL LOCATION OF CEILING FIXTURES.

KEYED NOTES

- ALL SITE AND BUILDING LIGHTING WILL BE CONTROLLED BY A PHOTO CELL LOCATED ON THE EXTERIOR EAST & WEST WALLS OF THE BUILDING. PROVIDE WIRE AND CONDUIT TO THE PHOTO CELL IN SHOWN LOCATION.
- 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 LOCATED ABOVE THE DESK. LABEL SWITCH AS CASE LIGHTS.
- EXHAUST FAN IN THE RESTROOM SHALL BE CONTROLLED BY THE LIGHTING CONTROL IN THE
- 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



read, explore, grow

GION,



ARCHITECT-OF-RECORD

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) 877-9600 F (417) 877-9696
- CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHITECTS.COM
- 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 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

ENGINEER OF RECORD:

PRELIMINARY NOT FOR CONSTRUCTION

TODD L. KUNO MO. LICENSE NO. 2015017018 BRIC MO CERTIFICATE OF

AUTHORITY 2002028690 Description

ROOM SCHEDULE 04/14/17 ISSUED FOR BID

704 MEETING ROOM A 706 MEETING ROOM B

NUMBER

106 VESTIBULE

700 VESTIBULE

701 CORRIDOR

702 WOMENS

705 COATS

707 STORAGE

708 CHILDRENS AREA

709 CIRCULATION

710 ADULT AREA

712 WORK ROOM 713 STORAGE

711 TEEN AREA

714 OFFICE

715 STUDY

716 STUDY 717 CORRIDOR 718 MECH/ ELEC 719 BREAK ROOM 720 JANITORS CLOSET

721 DROP

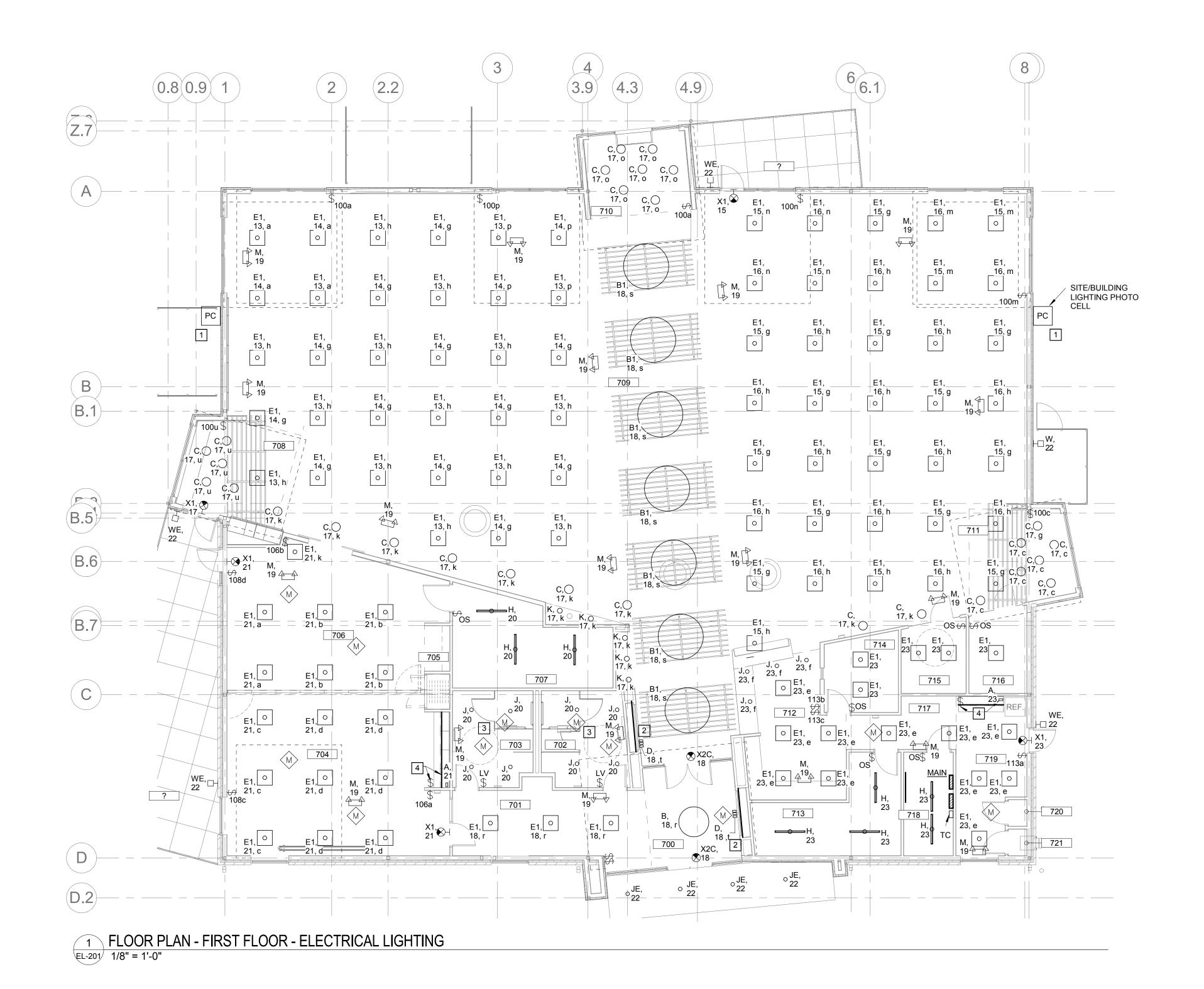
108 STUDY

109 STUDY

DRAWN BY: **TLK**

PROJECT NUMBER: **16-1161.07**

FLOOR PLAN & LIGHT FIXTURE SCHEDULE - FIRST FLOOR -**ELECTRICAL LIGHTING**



COOPER

LPX SERIES 120V

3.8W, LED, RED

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

PENDENT / CEILING MOUNTED

LED EDGE LIT EXIT SIGN. PROVIDE SINGLE FACE, AND CHEVRONS INDICATED ON DRAWINGS, WITH BATTERY BACKUP.

2 ELECTRICAL PLAN

EP-301 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

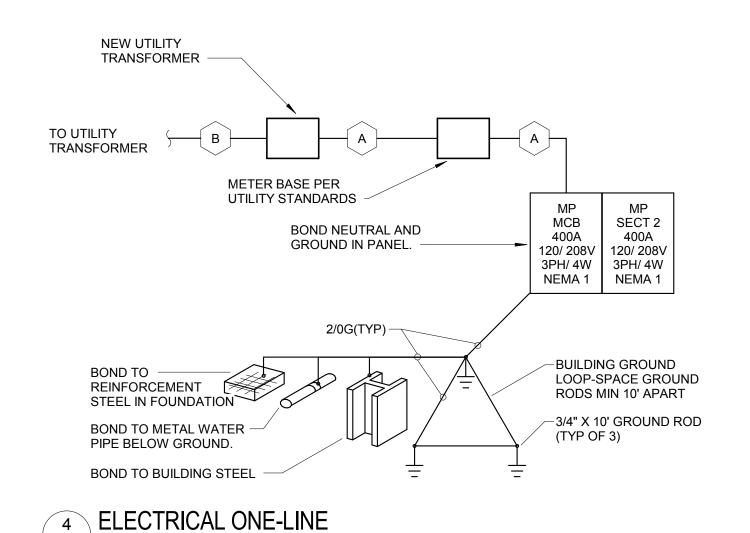
FOR ALL FLOOR BOXES, PROVIDE POWER, DATA AND CONDUIT TO EACH ACCORDINGLY. REFER TO SHEET E-001 FOR DEFINITIONS OF DIFFERENT FLOOR BOXES. CONDUIT TO BE RAN BACK TO NEAREST WALL, AS SHOWN ON DRAWINGS, UP THROUGH WALL AND BACK TO MAIN PANEL IN ELECTRICAL ROOM 112.

KEYED NOTES

- 1 PROVIDE RECEPTACLE ON TOP OF RACK.
- PROVIDE CONNECTION TO PROTECTOR SCREEN MOTOR. PROVIDE 3/4" CONDUIT FROM THE MOTOR CONTROLLER TO THE PROJECTOR SCREEN SWITCH. PROVIDE 2 GANG BACK BOX WITH SINGLE GANG MUD RING FOR THE PROJECTOR SCREEN SWITCH. COORDINATE LOCATION WITH
- PROVIDE CONNECTION TO EXHAUST FAN. THE EXHAUST FAN SHALL BE CONTROLLED BY THE
- LIGHTING CONTROL SWITCH. PROVIDED RECEPTACLE FOR THE FIRE PLACE. COORDINATE THE LOCATION WITH THE FIRE PLACE.
- COORDINATE LOCATION WITH G.C. PROVIDE CONNECTION TO ADA DOOR OPENER. PROVIDE A 20AMP TOGGLE DISCONNECT SWITCH,

PROVIDE BACK BOX FOR HAND DRYER. PROVIDE FINAL CONNECTION TO HAND DRYER

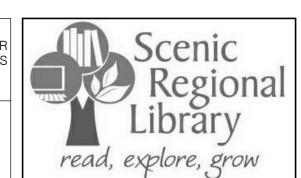
- ABOVE THE CEILING, FOR ADA OPERATOR. PROVIDE EMT CONDUIT TO OVER COUNTER RECEPTACLES IN WORK ROOM 107 AS SHOWN ON DRAWINGS. CONDUIT SHALL BE RAN UNDER COUNTER AND UP THROUGH DESK. PROVIDE (2) #12,
- (1) #12 GND, IN 3/4" CONDUIT.
- PROVIDE SWITCH FOR GARBAGE DISPOSAL.
- CONTRACTOR SHALL PROVIDE J-BOX ABOVE CEILING WITH A TOGGLE SWITCH. THE TOGGLE SWITCH SHALL BE USED AS A DISCONNECT SWITCH FOR THE ADA DOOR OPEN. PROVIDE 3/4" CONDUIT WITH PULL STRING FROM THE ADA DOOR CONTROLLER TO ADA PUSH BUTTON. PROVIDE BACK BOX AT PUSH BUTTON FOR ADA INSTALLER.



EP-301 N.T.S.

FEEDER SCHEDULE											
		NUMBER OF HOT	HOT SIZE	NUMBER OF NEUTRAL	NEUTRAL SIZE	NUMBER OF GROUND	GROUND SIZE	CONDUIT SIZE	NOTES		
Α	1	3	600KCMIL	1	600KCMIL	-	-	4"			
В	-	-	-	-	-	-	_	4"			

ROOM SCHEDULE NUMBER 106 VESTIBULE 108 STUDY 109 STUDY 700 VESTIBULE 701 CORRIDOR 702 WOMENS 704 MEETING ROOM A 705 COATS 706 MEETING ROOM B 707 STORAGE 708 CHILDRENS AREA 709 CIRCULATION 710 ADULT AREA 711 TEEN AREA 712 WORK ROOM 713 STORAGE 714 OFFICE 715 STUDY 716 STUDY 717 CORRIDOR 718 MECH/ ELEC 719 BREAK ROOM 720 JANITORS CLOSET 721 DROP





ARCHITECT-OF-RECORD

ST. LOUIS, MO 63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAIL: SCLARK@JEMASTL.COM

3005 LOCUST ST.

DESIGN 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
- 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

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

ENGINEER OF RECORD:

PRELIMINARY NOT FOR CONSTRUCTION

TODD L. KUNO MO. LICENSE NO. 2015017018 BRIC MO CERTIFICATE OF

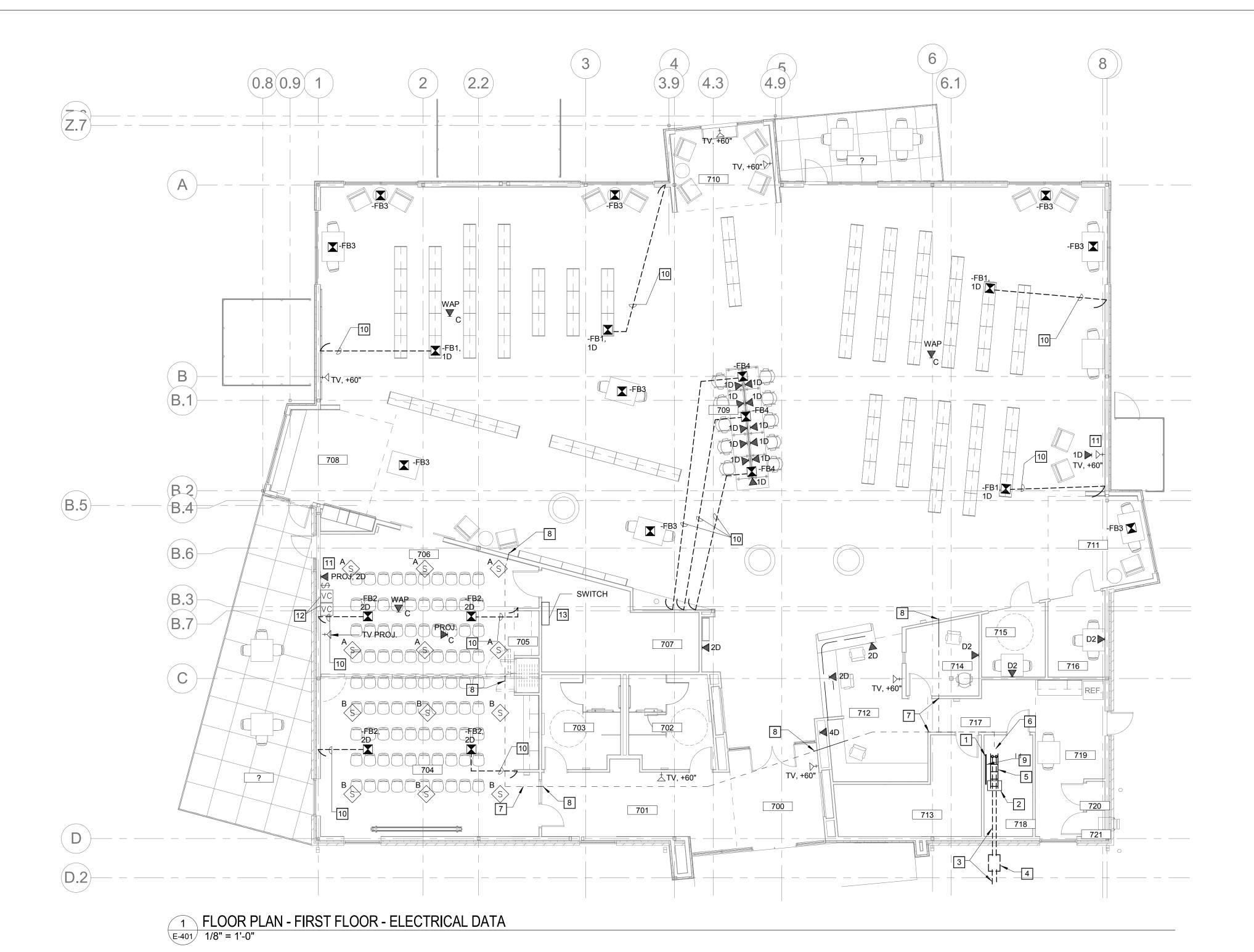
Date Description 04/14/17 ISSUED FOR BID

AUTHORITY 2002028690

DRAWN BY: **TLK**

PROJECT NUMBER: **16-1161.07**

FLOOR PLAN, ONE-LINE, & SCHEDULE - FIRST FLOOR -**ELECTRICAL POWER**



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.

KEYED NOTES

- 1 PROVIDE 3/4" PLYWOOD BACKBOARD FOR MOUNTING COMMUNICATIONS AND DATA EQUIPMENT. PLYWOOD SHALL BE FIRE RETARDANT UL LISTED PRODUCT. COVER WALL FROM 12" AFF TO 108" AFF.
- 2 PROVIDE 7' TALL 45U 2-POST EQUIPMENT RACK FOR NETWORK AND COMMUNICATIONS EQUIPMENT. RACK SHALL HAVE THREE (3) 1U HORIZONTAL CABLE MANAGERS. MOUNT RACK WITH FRONT OF
- PROVIDE TWO (2) 2" UTILITY DUCTS FOR COMMUNICATIONS AND DATA SERVICES. DUCTS SHALL STUB UP 12" ABOVE FLOOR WHERE SHOWN. ROUTE FROM ROOM #112 TO UTILITY POLE AS DIRECTED BY SERVICE PROVIDERS, VERIFY. 4 PROVIDE CAST FIBER CEMENT TYPEHAND HOLE WITH 2-BOLT GASKETED COVER SIMILAR TO
- HUBBELL #B10162230A AND 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 WORK ROOM CEILING. CONDUITS SHALL HAVE BUSHINGS ON ENDS AND FIRESTOP AS REQUIRED. COORDINATE WITH OTHER TRADES AND ADJUST HEIGHT AS REQUIRED TO PROVIDE ADEQUATE CLEARANCE.
- PROVIDE J-HOOK PATHWAY AT APPROX. 8" ABOVE LAY-IN CEILING FOR ROUTING NETWORK CABLING. J-HOOKS SHALL BE 4" WITH RETENSION CLIPS, PROVIDE QUANTITY AS REQUIRED. COORDINATE WITH OTHER TRADES AND ADJUST EXACT ROUTING AS REQUIRED TO PROVIDE ADEQUATE CLEARANCE. ALL CABLING SHALL BE TRAINED, BUNDLED AND LASHED WITH RELEASABLE VELCRO STRAPS, NYLON WIRE TIES ARE NOT ACCEPTABLE. THE DESIGN INTENT IS THAT THIS PATH REPRESENTS THE 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 ABOVE AREA WITH DRYWALL SOFFITS AND THROUGH WALLS EXTENDING TO DECK. CONDUITS SHALL HAVE BUSHINGS ON ENDS. COORDINATE WITH OTHER TRADES AND ADJUST LOCATIONS 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 12"x2"x1/4" THICK COPPER WITH PRE-DRILLED HOLES TO MEET ANSI/TIA 607-B STANDARDS. 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.
- 10 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 #112 SUPPORTED BY J-HOOKS.
- 11 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.
- 12 PROVIDE AV SPEAKER VOLUME CONTROLLER AND AV CONTROLLER. SEE DETAILS ON SHEET E-600. COORDINATE LOCATIONS WITH POWER AND LIGHTING CONTROL DEVICE.

13 PROVIDE AV SYSTEM SWITCH ON WALL. SEE DETAIL SHEET E-600.



read, explore, grow

GION, SCENIC LIBRAR



ARCHITECT-OF-RECORD

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) 877-9600 F (417) 877-9696
- CONTACT: JAMES STUFFLEBEAM
 E: STUFFLEBEAM@SDAARCHITECTS.COM
- 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 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

ENGINEER OF RECORD:

PRELIMINARY NOT FOR CONSTRUCTION

TODD L. KUNO MO. LICENSE NO. 2015017018 BRIC MO CERTIFICATE OF AUTHORITY 2002028690

Description

Date

1				
ROC	M SCHEDULE		04/14/17	ISSUED FOR BID
NUMBER	NAME			
400	VEOTIDALIE			
106	VESTIBULE]		
108	STUDY			
109	STUDY			
700	VESTIBULE			
701	CORRIDOR			
702	WOMENS			
703	MENS			
704	MEETING ROOM A			
705	COATS			

706 MEETING ROOM B

708 CHILDRENS AREA

709 CIRCULATION 710 ADULT AREA

711 TEEN AREA 712 WORK ROOM 713 STORAGE

714 OFFICE

715 STUDY 716 STUDY 717 CORRIDOR 718 MECH/ ELEC 719 BREAK ROOM 720 JANITORS CLOSET

721 DROP

707 STORAGE

DRAWN BY: **TLK**

PROJECT NUMBER: **16-1161.07**

FLOOR PLAN - FIRST FLOOR -ELECTRICAL DATA

WIRE#

🛈 - HDMI

A - 70V PLENUM 2/#14 PAIR

C - STP-2P PLENUM RATED CONTROL WIRE

B - HYBRID HDMI CABLE LIBERTY DL-HFC-##

AV CONTROLLER [EBP-IOS D]

FLOOR BOX

WALL

MUTE

FLOOR BOX

WALL BOX

CEILING COVER

AV CONTROLLER

- CEILING SPEAKER- ATLAS FAPG3T-W [TAP AT 8W] [SEE FLOOR PLAN FOR NUMBER]

- VOLUME CONTROLLER- LOWELL 2SLVC

120V

120V —

EXTRON IN 1508 MA 70

4 A / V WIRE DIAGRAM

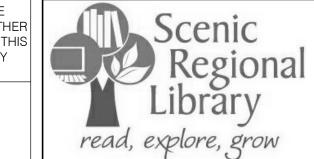
E-801 N.T.S.

BY OTHER

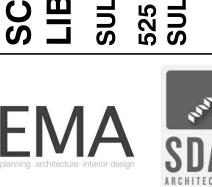
TV BACK BOX TV

BY OTHER

PROJECTOR







ARCHITECT-OF-RECORD 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) 877-9600

F (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) 584-0540 F (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

ENGINEER OF RECORD:

PRELIMINARY NOT FOR CONSTRUCTION

TODD L. KUNO MO. LICENSE NO. 2015017018 BRIC MO CERTIFICATE OF AUTHORITY 2002028690

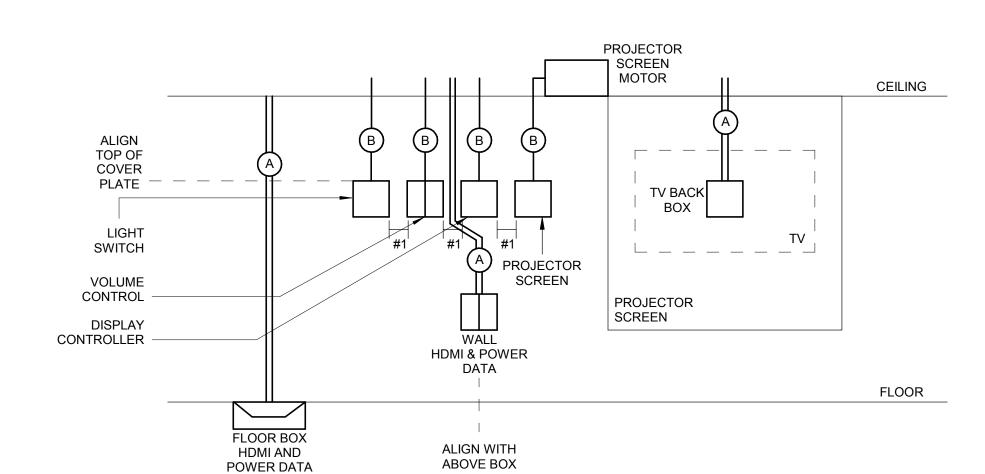
Description

04/14/17 ISSUED FOR BID

DRAWN BY: **TLK**

PROJECT NUMBER: **16-1161.07**

DETAILS - ELECTRICAL



CONDUIT SIZE								
TYPE	POWER	TYPE						
(1) 3/4"		(1)1- 1/4"						
В	-	(1)3/4"						
0	(1) 3/4"	-						

#1) SPACE BACK BOX SO THAT THERE IS 1" BETWEEN EACH COVER PLATE. PROVIDE THE REQUIRED BLOCKING TO MOUNT BOXES.

2 AV SWITCH ELEVATIONS 1 AV DEVICE LAYOUT E-801 N.T.S.

E-801 N.T.S.

CEILING

SWITCHER.

1) PROVIDE CABLE MANAGEMENT

SIMILAR TO LEGRAND CABLE

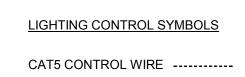
FILL G-MINI FROM CABLE SIDE OF SWITCHER TO CEILING.

3) PROVIDE VERTICAL MOUNT FOR

CABLE ABOVE CEILING.

2) PROVIDE 1-1/2" O-RINGS TO SUPPORT

TOP OF DEVICE



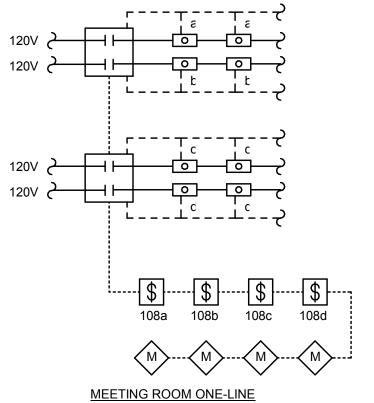
120V CONDUCTORS ————

LOAD CONTROLLER

0-10V WIRE

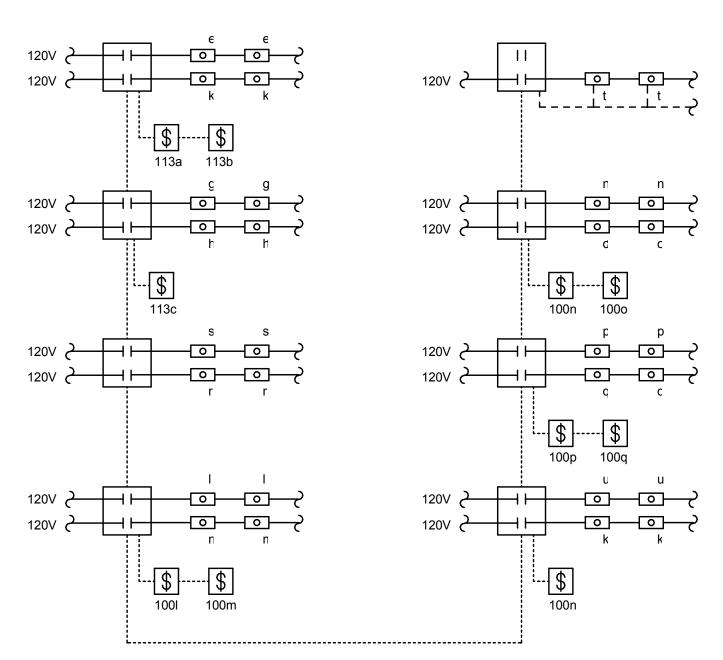
LIGHT FIXTURE LOWER CASE IS SWITCH LEG

LOW VOLTAGE SWITCH AND SWITCH NUMBER ### CEILING OCCUPANCY SENSOR



MEETING DOOM CONTROL

### CONTROL DEVICE \$ 108a \$ 108b \$ 108c \$ 108d	IG R	DOM CONTRO	<u>)L</u>	
	-	BUTTONS	CIRCUIT CONTROL	CONTROL TYPE
\$ 108	a	a b	a,b FUTURE	ALL ON/OFF - 100%
\$ 108	b	a b	a,b FUTURE	ALL ON/OFF - 100%
\$ 108	C	a b c d	a,b a b DIMMING	a,b - ON/OFF - 100% a - ON/OFF - 100% b - ON/OFF - 100% DIM SELECTED
\$ 108	d	a b c d e f	a,b a b c d DIMMING	a,b - ON/OFF - 100% a - ON/OFF - 100% b - ON/OFF - 100% c - ON/OFF - 100% d - ON/OFF - 100% DIM SELECTED
\$ 108c	VACANCY S		IALL BE SET UP AS A JRN OFF THE LIGHTS IN	



VESTIBULE, WORK ROOM, CIRCULATION ONE-LINE

MEETING ROOM CONTROL

	a a b c d e f	e e f g,h,j,k,l,m,n,o,p,q,r,s g h s r f	ALL - ON/OFF - 100% e - ON/OFF - 100% f - ON/OFF - 100% ALL - ON/OFF - 100% g - ON/OFF - 100% h - ON/OFF - 100% s - ON/OFF - 100% r - ON/OFF - 100%
13c	b a b c d e f	f g,h,j,k,l,m,n,o,p,q,r,s g h s r f	f - ON/OFF - 100% ALL - ON/OFF - 100% g - ON/OFF - 100% h - ON/OFF - 100% s - ON/OFF - 100% r - ON/OFF - 100% f - ON/OFF - 100%
	b c d e f	g h s r f	g - ON/OFF - 100% h - ON/OFF - 100% s - ON/OFF - 100% r - ON/OFF - 100% f - ON/OFF - 100%
001	а	ı	1 ON/OFF 1000/
		'	I - ON/OFF - 100%
10m	а	m	m - ON/OFF - 100%
10n	а	n	n - ON/OFF - 100%
10o	а	О	o - ON/OFF - 100%
10p	а	р	p - ON/OFF - 100%
\$ 1100 \$ 110p \$ 110q	а	q	q - ON/OFF - 100%
	a b	t DIMMER	t - ON/OFF - 100%\ DIM t SWITH LEG
10 10 10	On Op Oq	On a Oo a Op a Oq a b L LIGHTS SHALL BE	0n a n 00 a 0 0p a p 0q a q a t

THE ROOM AFTER 30 MINUTES OF NO OCCUPANCIES SENSOR.

3 LIGHTING CONTROLS DIAGRAM E-801/ N.T.S.

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

		FOR SUCH PLAN, DRA	WINGS OR DOCUME
FEEDER SIZE / RACEWAY	REMARKS		
			-
(3)1,(1)#6G, 1 1/2"C.	-		
(3)8,(1)#10G, 1"C.	-		
			-

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

PANEL: .OCATIO	MAIN OC DEVICE TYPE N: MECH/ ELEC 112 DEVICE FAMILY: M:		ENCLO MOUN VOLTA	ITING:	E: NEMA SURFA 120/208	CE		400A M 3 PHAS	CB E 4 WIRE		BUS S	NOUS: C RATING: CURRENT	400 A 22K AIC : 19295 AIC C	ALC	
CKT	DESCRIPTION	NOTES	ОС	Р		Α	E	3		С	Р	ос	NOTES	DESCRIPTION	С
1	AHU-1		125 A	3	11916 VA	3780 VA					3	40 A		AHU-2	
3							11916 VA	3780 VA							
5									11916 VA	3780 VA	\				
7	REC		20 A	1	180 VA	1833 VA					3	20 A		EWH-1	
	GEN MEETING ROOM B 118		20 A	1			0 VA	1833 VA							
	FU-3		15 A	1					1308 VA	1833 VA					
	LTS CIRCULATION 100		20 A	1	585 VA	550 VA					1	20 A		LTS CIRCULATION 100	
	LTS CIRCULATION 100		20 A	1			654 VA	585 VA	400014	4040344	1	20 A		LTS CIRCULATION 100	_
	LTS CIRCULATION 100		20 A	1	57.\/A	0401/4			1800 VA	1342 VA		20 A		LTS CIRCULATION 100/ VESTIBULE 106	
	EMERGENCY EGRESS LIGHTING		20 A	1	57 VA	212 VA	505 \ /A	000 \ / 4			1	20 A		LTS MENS 103/ WOMEN 104	+
	LTS MEETING ROOM 101		20 A	1			585 VA	228 VA	4420.1/4	E40 \/A	1	20 A		LTS BUILDING	+
	LTS WORK ROOM 107/ 110-116		20 A	1	457\/A	0.1/4			1139 VA	540 VA	1	20 A		REC BRK RM 113	
	LTS SITE		20 A		457 VA	0 VA	180 VA	900 VA			1	20 A 20 A		WOMENS ROOM REC WORK ROOM 107	
	REC REFRIGERATOR 113		20 A	1			180 VA	900 VA	360 VA	000 \/A	'	20 A		REC CIRCULATION EAST WALL	
	REC MECH/ ELEC 112 REC WORK ROOM 107/ ST 111		20 A 20 A	1	720 VA	1260 VA			360 VA	900 VA	1	20 A		REC CIRCULATION EAST WALL	+
	REC STUDY 115/ 116		20 A	1	720 VA	1260 VA	1260 VA	540 \/A			1	20 A		REC RESTROOMS/ WC	+
	REC CIRCULATION 100 NORTH WALL		20 A	1			1260 VA	540 VA	1260 \/A	1440 VA	'	20 A		REC RESTROOMS/ WC	+
	MENS ROOM		20 A	1	0 VA	1260 VA			1200 VA	1440 VA	1	20 A		REC CIRCULATION 100 FLOOR BOXES	+
	REC CORRIDOR 105		20 A	1	UVA	1200 VA	720 VA	540 VA			2	20 A		REC CIRCULATION 100 PLOOR BOXES	+
	REC MEETING ROOM 101		20 A	1			120 VA	340 VA	1080 \/A	540 VA				INCOURTION 100	+
	REC CIRCULATION 100 FLOOR BOXES		20 A	1	360 VA	720 VA			1000 VA	340 VA	1	20 A		REC CIRCULATION 100 FLOOR BOXES/ TV	+
	REC BUILDING POWER		20 A	1	300 VA	120 VA	720 VA	720 VA			1	20 A		REC CIRCULATION 100 FLOOR BOXES	+
	REC MEETING ROOM 101 FLOOR BOXES		20 A	1			120 VA	120 VA	720 VA	720 VA		20 A		REC BUILDING POWER	+
	REC MEETING ROOM 101 PROJECTORS		20 A	1	360 VA	180 VA			720 771	720 770	1	20 A		REC MECH/ ELEC 112	+
	GEN CORRIDOR 105		20 A	1	000 771	100 771	0 VA	180 VA			1	20 A		REC	+
	REC		20 A	1			0 1/1	100 171	360 VA	2964 VA	2	50 A		CU-1	+
	ADA DOOR		20 A	1	0 VA	2964 VA			000 171	200: 17	` -				+
	GEN		20 A	1		2001171	0 VA	0 VA			1	20 A		Spare	+
	Spare		20 A	1			U 17 1	•	0 VA	0 VA	1	20 A		Spare	+
	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	+
	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	1
	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	
67	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	
69	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	
71	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	
73	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	
75	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	
	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	
	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	
	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	
83	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	
						95 VA 31 A	2534 211			02 VA 6 A					
	TOTAL CONNECTED LOAD): 86737 VA									ТОТ	AL CONNE	CTED AMPS:	241 A	
	TOTAL DEMAND LOAD												MAND AMPS:		
	101/12 DEIW HAD EOAE	2.02011 7/1											/ 0.		
															_

PLAN MARK

DISCRIPTION /

AIR HANDLER UNIT

AIR HANDLER UNIT

CONDENSER UNIT

WATER HEATER

AIR HANDLER UNIT

LOCATION

APPARENT

35748 VA 208 V

11340 VA 208 V

5928 VA 208 V

5500 VA 208 V

1308 VA 120 V

VOLTAGE

PHASE

NEMA 3R

NEMA 3R

NEMA 1

NEMA 1

HORSEPOWER LOAD

MECHANICAL EQUIPMENT ELECTRICAL DATA SCHEDULE

LOCATION FURNISHED BY INSTALLED BY TYPE SIZE SIZE

60 AMP

TOGGLE 20 AMP NF

60 AMP NF

30 AMP NF

CONTROL DEVICE

FURNISHED WIRE BY BY

MC MAIN

MC MAIN

MC MAIN

PANEL

(2)4,(1)#8G, 1"C

(3)12,(1)#12G, 3/4"C

(2)12,(1)#12G, 3/4"C.

LOCATION

ON WALL

ON WALL

ON WALL

ON WALL

STARTER

NEMA

TYPE

AUXILIARY CONTACTS

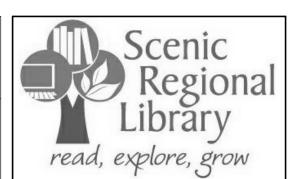
IN UNIT

IN UNIT

IN UNIT

IN UNIT

NEMA ENCL. FURNISHED INSTALLED BY BY TYPE



SCENIC REGIONAL LIBRARY SULLIVAN BRANCH 525 CUMBERLAND WAY SULLIVAN, MO 63080



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) 877-9600
F (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) 584-0540
F (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

CONTACT: BRUCE COLEMAN
E: BCOLEMAN@BRICPARTNERSHIP.COM

ENGINEER OF RECORD:

PRELIMINARY

NOT FOR CONSTRUCTION

TODD L. KUNO MO. LICENSE NO. 2015017018 BRIC MO CERTIFICATE OF AUTHORITY 2002028690

Date Description

04/14/17 ISSUED FOR BID

PROJECT NUMBER: 16-1161.07

SHEET TITLE:
SCHEDULES - ELECTRICAL

DRAWN BY: **TLK**

F_Q_1