

# Scenic Regional Library

Pacific Branch 111 Lamar Parkway Pacific, MO 63069



### NORTH ELEVATION (PARKING LOT ENTRY)

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**CODE INFORMATION** 

<u>AUTHORITIES HAVING JURISDICTION:</u> CITY OF PACIFIC, MO (FRANKLIN COUNTY PACIFIC FIRE PROTECTION DISTRICT

INTERNATIONAL BUILDING CODE (IBC) 2003 EDITION, **BUILDING CODE:** INCLUDING APPENDIX CHAPTERS E,F AND I.

**ACCESSIBILITY:** AMERICANS WITH DISABILITIES ACT

ICC/ANSI A117.1, REFERENCED BY BUILDING CODE **FIRE PREVENTION:** INTERNATIONAL FIRE CODE (IFC) 2003 EDITION,

MECHANICAL: INTERNATIONAL MECHANICAL CODE (IMC) 2003 EDITION,

INCLUDING APPENDIX CHAPTERS B, C, D, E, F and G

INCLUDING APPENDIX CHAPTER A.

**ELECTRICAL**: INTERNATIONAL ELECTRICAL CODE (ICC) 2003 EDITION

INTERNATIONAL PLUMBING CODE (IPC) 2003 EDITION. PLUMBING: INCLUDING APPENDIX CHAPTERS B, C, D, E, F and G

PROPERTY MAINTENANCE: INTERNATIONAL PROPERTY MAINTENANCE CODE (IPMC) 2003 EDITION.

INTERNATIONAL FUEL GAS CODE 2003 EDITION, INCLUDING APPENDIX CHAPTERS B, AND D.

MODERATE HAZARD STORAGE (ACCESSORY USE, SEE LIFE

**BUILDING INFORMATION** 

**RATINGS** 

STORAGE

RATING: 0 HOUR COLUMN CORRIDOR 0 MINUTE DOOR 0 MINUTE **FLOOR** 0 HOUR

0 HOUR

**CONSTRUCTION TYPE** TYPE IIB NON-SPRINKLERED, NOT PROTECTED

ASSEMBLY, LIBRARY

REFER TO CISCA GUIDELINES FOR REQUIREMENTS

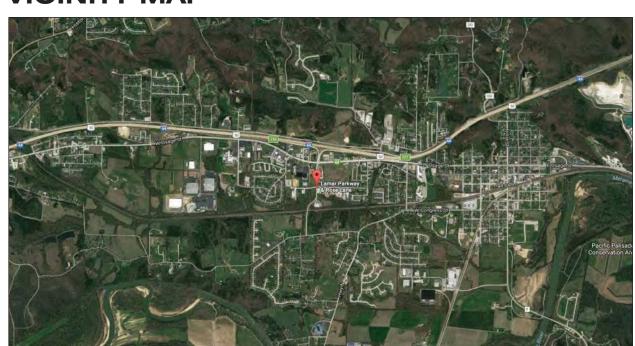
FLOOR: ACTUAL GSF DESIGN OCCUPANCY: FIRST FLOOR 253 OCCUPANTS

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=208'-8", P= 417'-0", W=30'-0")

SAFETY PLAN, SHEET A-002)

### **VICINITY MAP**





### **LOCATOR MAP**





### 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 **ENGINEER** 

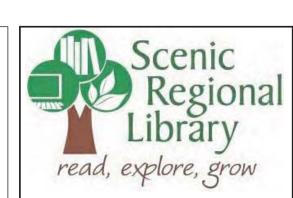
COCHRAN ENGINEERING 530A EAST INDEPENDENCE DRIVE UNION, MO 63084 T (636) 584-0540 F (636) 584-0512 CONTACT: DAVE VAN LEER E-MAIL: DVANLEER@COCHRAN.COM

**STRUCTURAL ENGINEER** 

ALPER AUDI, INC. 1804 BORMAN CIRCLE DRIVE ST. LOUIS, MO 63146 T (314) 432-8600 CONTACT: STEVE EHRETT E-MAIL: STEVE.EHRETT@ALPERAUDI.COM

MECHANICAL, ELECTRICAL, PLUMBING ENGINEER

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





ARCHITECT-OF-RECORD 3005 LOCUST ST. CONTACT: SCOTT CLARK E-MAIL: SCLARK@JEMASTL.COM

SPRINGFIELD, MO 65804 CONTACT: JAMES STUFFLEBEAM

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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

ARCHITECT OF RECORD:

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

No.	Date	Description		
	06/13/17	ISSUED FOR RE-BI		

DRAWN BY: SC/SH

PROJECT NUMBER: 16-1161.04 SHEET TITLE:

**COVER SHEET** 

# OCHRAN

## **CONTACT INFORMATION OWNER** OWNER: SCENIC REGIONAL LIBRARY REPRESENTATIVE: STEVEN CAMPBELL (DIRECTOR) ADDRESS: 304 HAWTHORNE DRIVE, UNION, MO PHONE: (636) 583-0652 WATER/SEWER OWNER: CITY OF PACIFIC REPRESENTATIVE: ROBERT BRUGAMANN ADDRESS: 300 HOVEN DRIVE, PACIFIC, MO PHONE: (636) 271-0500 **ELECTRIC** OWNER: AMEREN REPRESENTATIVE: ANDY KNIGHT ADDRESS: 500 E. INDEPENDENCE STREET, UNION, MO PHONE: (636) 583-7144 *TELEPHONE* OWNER: AT&T REPRESENTATIVE: JEREMIAH KINEALY ADDRESS: 402 N. 3RD STREET, SAINT CHARLES, MO 63301 PHONE: (636) 925-3511 OWNER: LACLEDE GAS REPRESENTATIVE: PATRICK McMILLEN ADDRESS: #6 PROGRESS PARKWAY UNION, MO PHONE: (314) 575-4835 SPECIAL NOTES: FOR QUESTIONS OR CLARIFICATION PLEASE CONTACT DAVID VAN LEER AT COCHRAN. PHONE #636-584-0540 CITY OF **PACIFIC** <u> SITE</u> VICINITY MAP NO SCALE

# SITE IMPROVEMENT PLANS FOR SCENIC REGIONAL LIBRARY IN THE CITY OF PACIFIC, MISSOURI 111 LAMAR PARKWAY

PROJECT NO. 16-6416



- CIVIL ENGINEERING
- LAND SURVEYING

UTILITY RESPONSIBILITY MATRIX FOR THIS PROJECT

ALL TRENCHING AND BACKFILLING REQUIRED.

RUN SERVICE CABLE FROM TRANSFORMER TO

INSTALL ALL GAS LINES ON BUILDING SIDE OF GAS METER AND CONNECT TO METER.

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.

OTHERS RESPONSIBILITY-

RIGHT-OF-WAY.

-PULL CABLE FROM EXISTING INTO BUILDING.

-PROVIDE AND INSTALL WIRE FROM EXISTING TO TRANSFORMER.

-TRENCH, INSTALL, AND BACKFILL GAS LINES FROM GAS MAIN CONNECTION UP TO METER.

CONTRACTOR RESPONSIBILITY-

-INSTALLS SERVICE LINE

UTILITY/ GOVERNING

300 HOVEN DR.

ELECTRIC

AGENCÍES CONTACTS

PHONE: (636) 271-0500

AT&T
402 N. 3RD STREET
SAINT CHARLES, MO 63301
CONTACT: JEREMIAH KINEALY

PHONE: (636) 925-3511

AMEREN 500 E. INDEPENDENCE DR.

UNION, MO 63084 CONTACT: ANDY KNIGHT

PHONE: (636) 583-7144

#6 PROGRESS PARKWAY

PHONE: (314) 575-4835

CONTACT: PATRICK McMILLEN

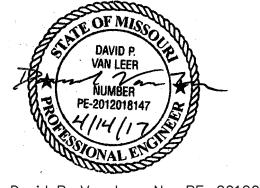
PACIFIC, MO 63069 CONTACT: ROBERT BRUGAMANN

- 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** 

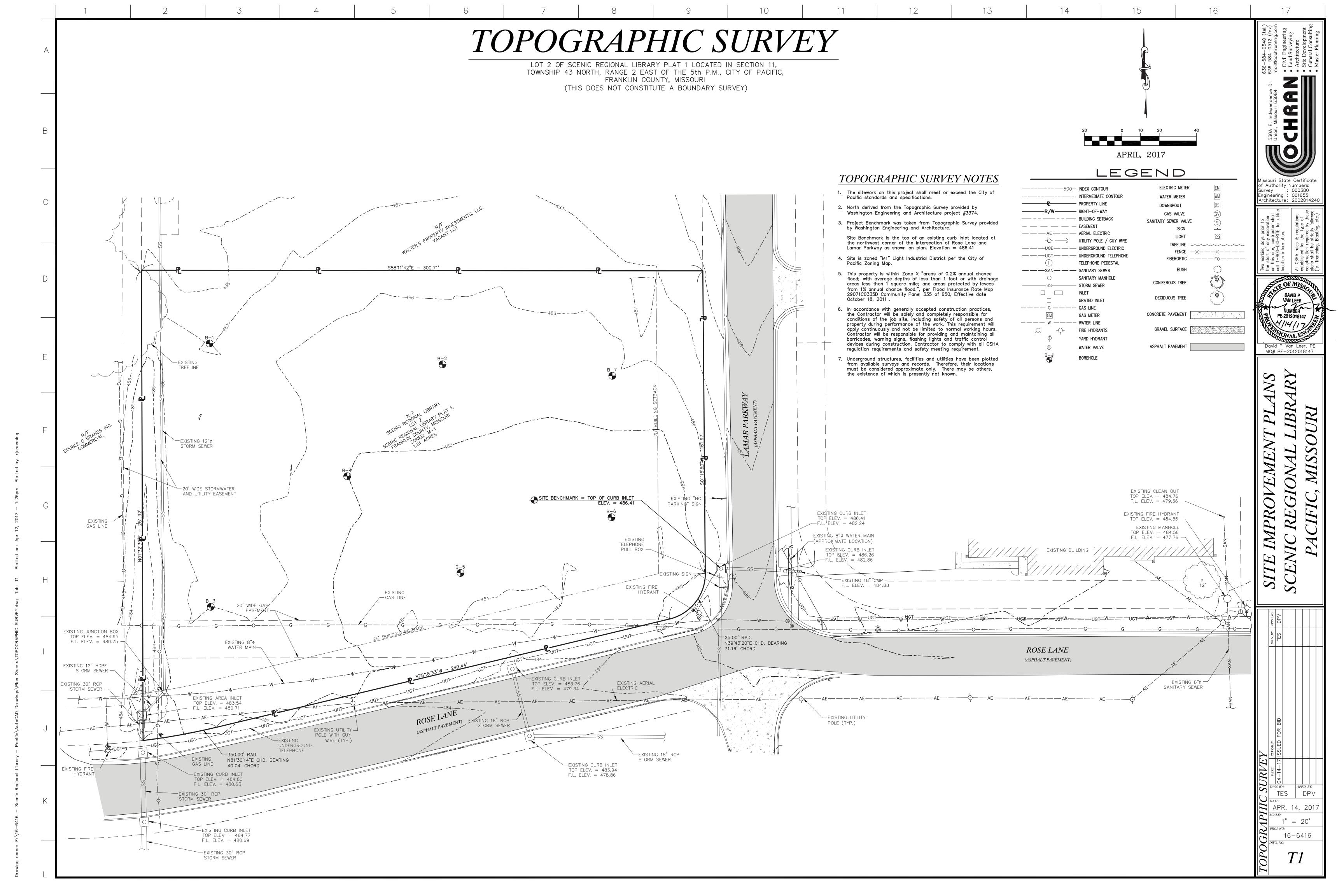
SHEET INDEX	SHEET
TOPOGRAPHIC SURVEY	T1
DEMOLITION PLAN	C1
SITE PLAN	C2
GRADING PLAN	C3
JTILITY PLAN	C4
DETAIL SHEET	D1
DETAIL SHEET	D2
DETAIL SHEET	D3

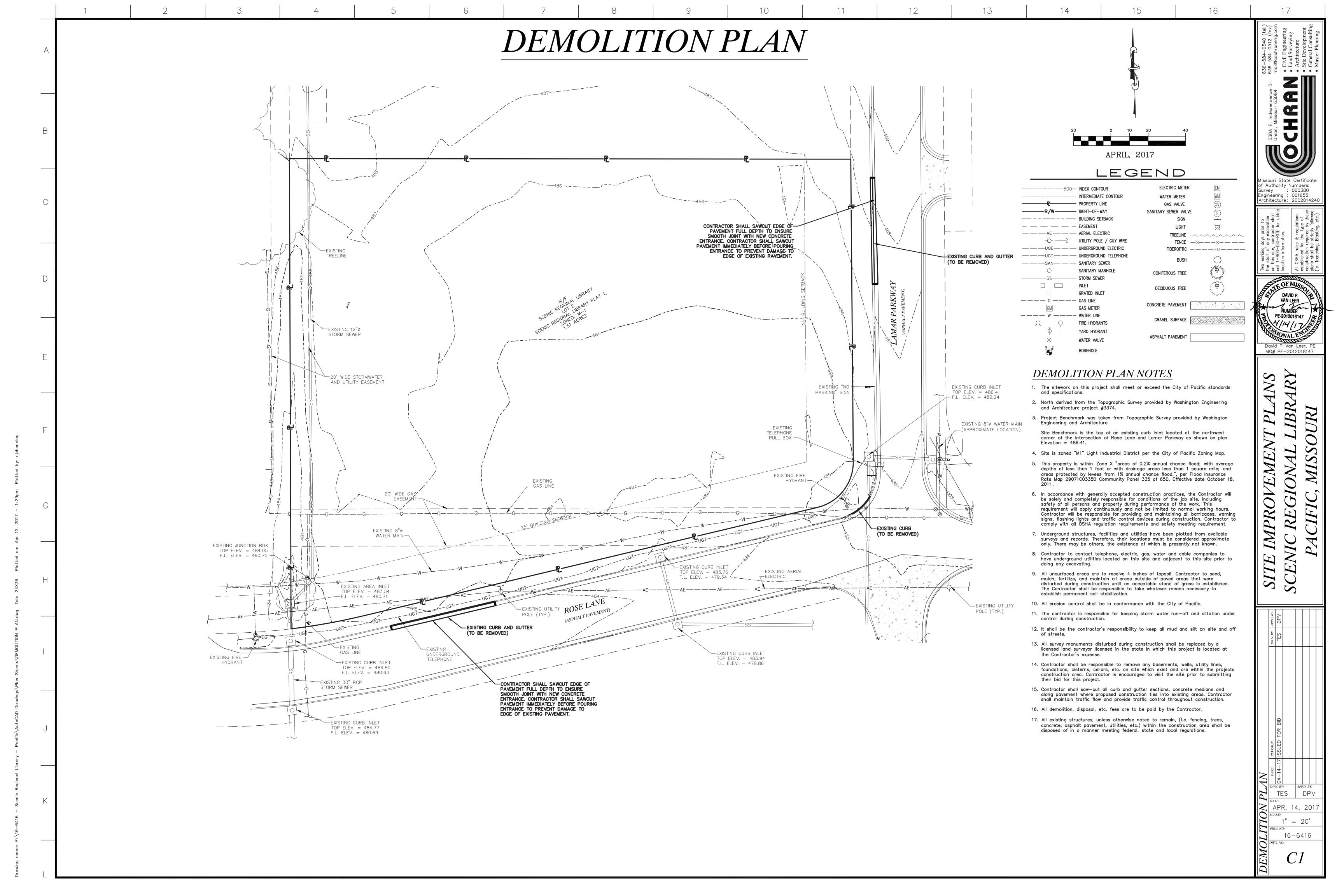


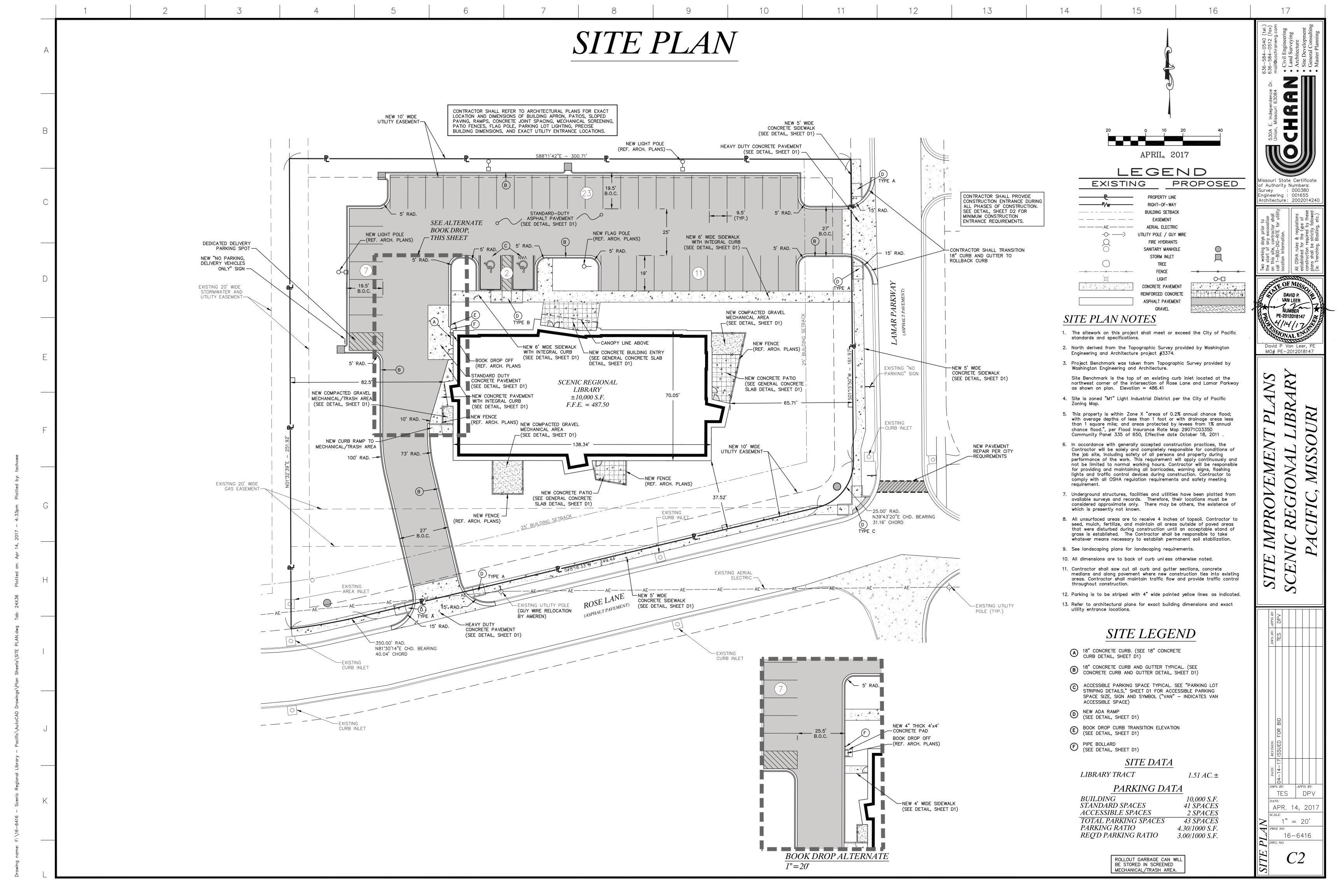
David P. Van Leer No. PE—2012018147 Registered Professional Engineer State of Missouri for Cochran

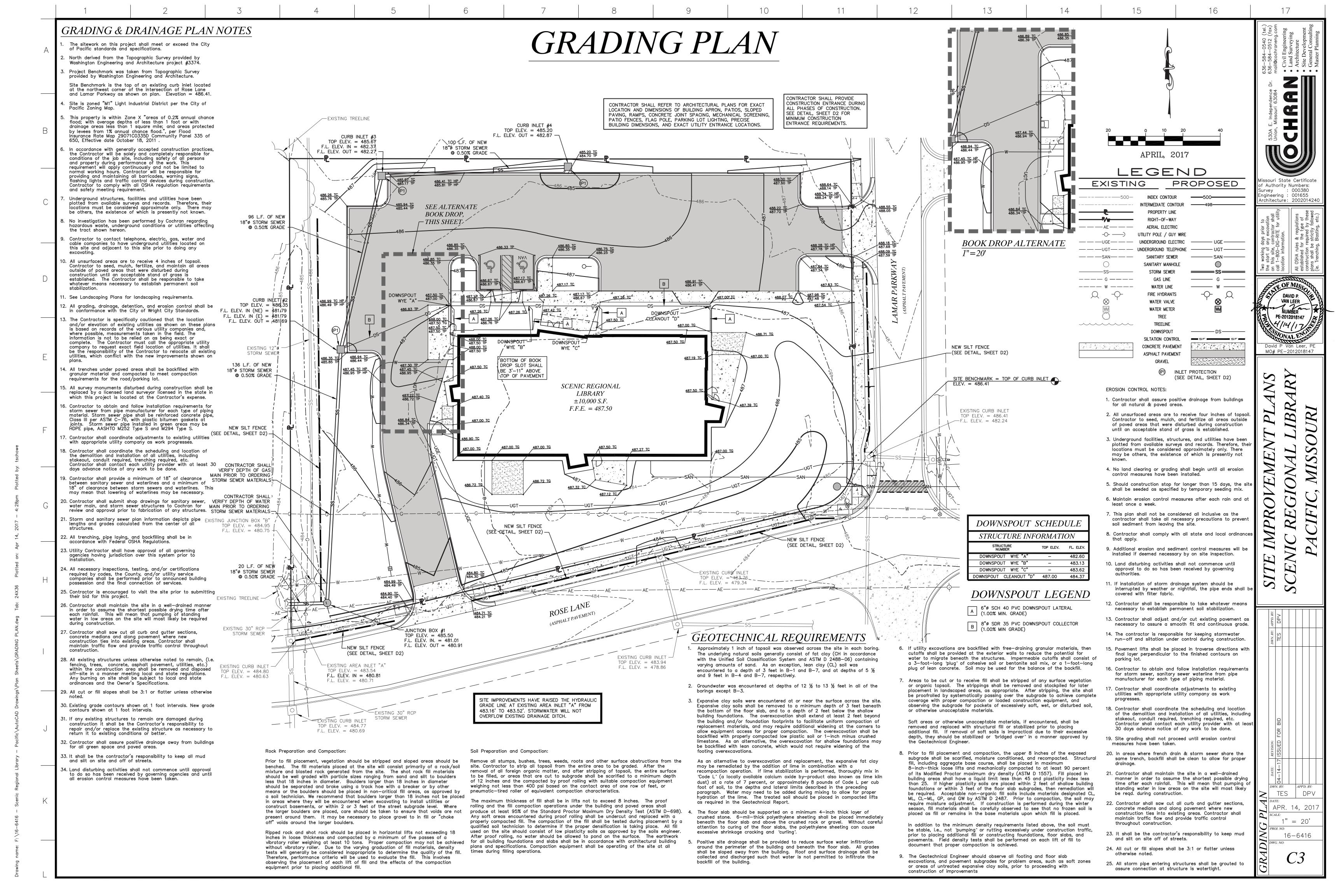
Two working days prior to the start of any excavation on this site, contractor shall call 1—800—DIG—RITE for utility location information.

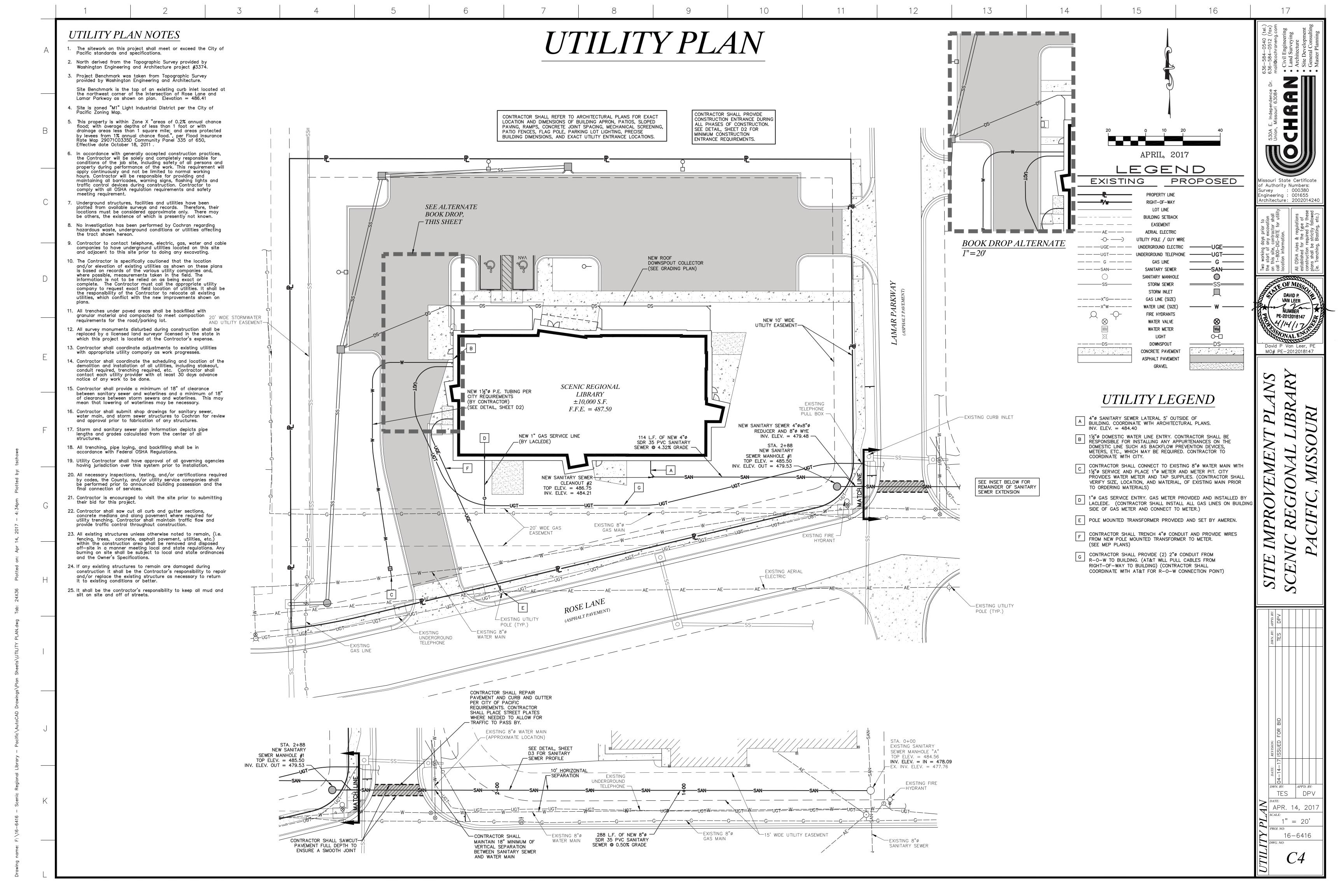
All OSHA rules & regulations established for the type of construction required by these plans shall be strictly followed (ie. Trenching, Blasting, etc.)

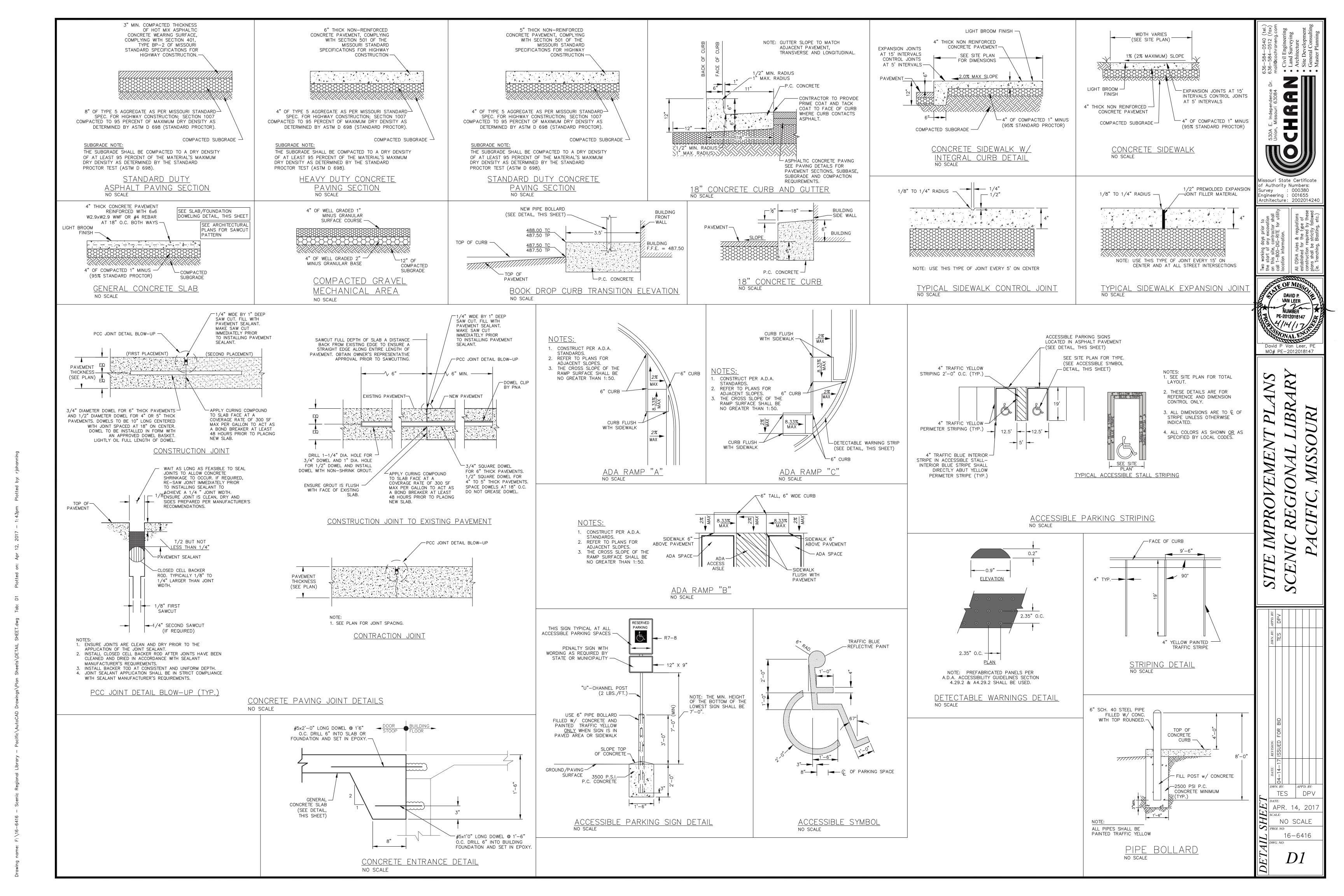




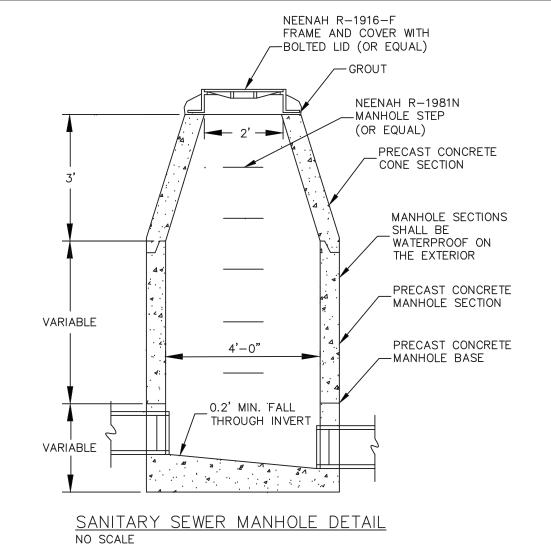


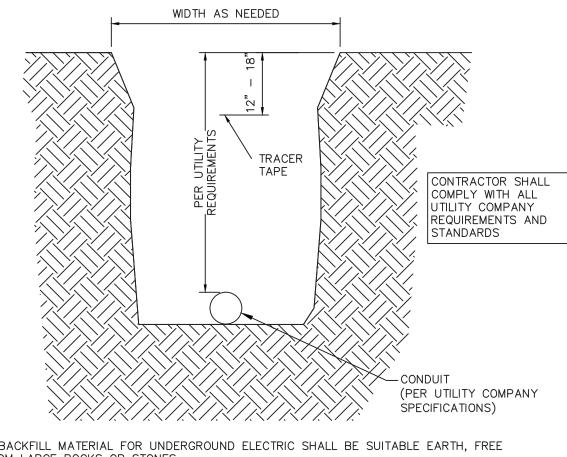






1. ALL TRENCHES SHALL HAVE A BEDDING OF WELL GRADED, 1" MINUS, GRANULAR MATERIAL 1.4 x I.D.+12" FROM 4" BELOW THE BOTTOM OF THE PIPE TO TRENCH WIDTH 1/2 THE DIAMETER OF THE PIPE COMPACTED TO 95% STANDARD PROCTOR DENSITY. 2. IN AREAS TO BE PAVED OVER, ENTIRE TRENCH BACKFILL TO BE BACKFILLED WITH WELL 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. PIPE CRADLE OR BEDDING 6. IN AREAS WHERE BACKFILL MATERIAL CONTAINS TO BE WELL GRADED ROCK, CONTRACTOR TO PLACE 1" MINUS GRANULAR MATERIAL A MINIMUM OF 4" ABOVE PIPES. 1" MINUS GRANULAR BACKFILL GRAVITY SEWER TRENCHING DETAIL NO SCALE NEENAH R-1916-F FRAME AND COVER WITH -BOLTED LID (OR EQUAL) NEENAH R-1981N -MANHOLE STEP (OR EQUAL) PRECAST CONCRETE





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

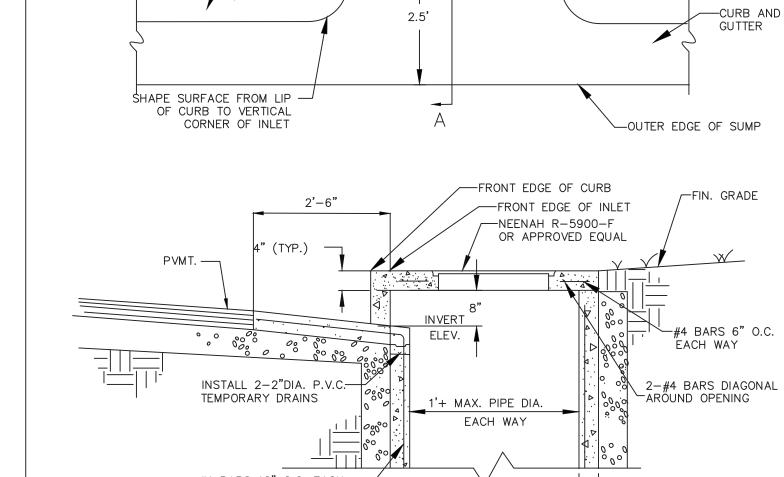
2. ALL TRENCHES IN AREAS OF UNSUITABLE EARTH USED FOR UNDERGROUND ELECTRIC SHALL HAVE A BEDDING OF WELL-GRADED, 1" MINUS, GRANULAR BACKFILL FROM 4" BELOW THE BOTTOM OF THE PIPE TO ONE-HALF THE DIAMETER OF THE PIPE

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)

GRANULAR COMPACTED MATERIAL TO SIX INCHES ABOVE TOP OF PIPE.

6. IN PAVED (OR GRAVEL) AREAS WELL-GRADED 1" MINUS GRANULAR BACKFILL COMPACTED TO 95% OF STANDARD PROCTOR DENSITY (ASTM-698) SHALL BE USED.

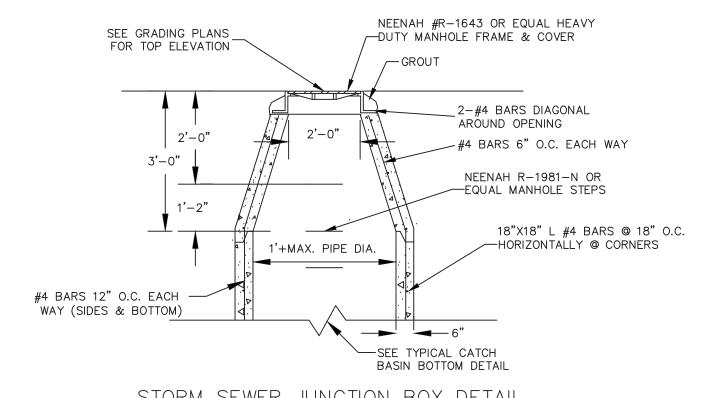
TEXAS, AND SHALL HAVE THE WORDS "CAUTION: "ELECTRICAL CONDUIT BURIED BELOW"



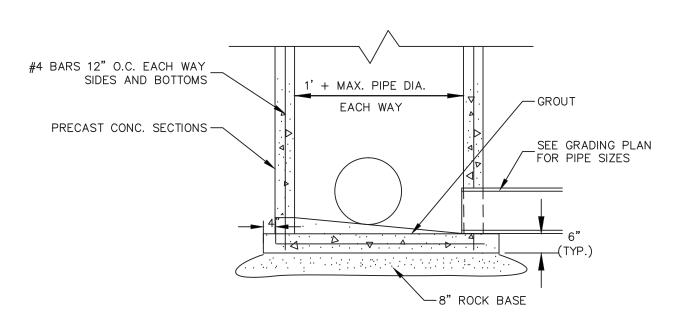
3/4" EXP. JT.——

BACK OF CURB ---

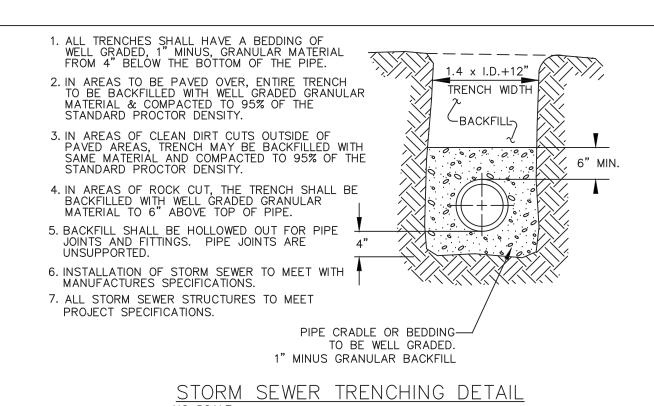
TOP OF CURB 7



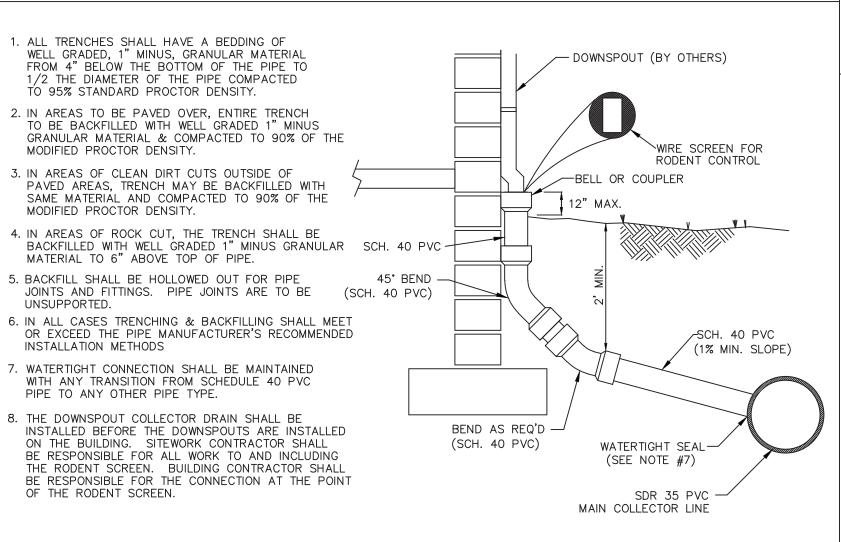
STORM SEWER JUNCTION BOX DETAIL



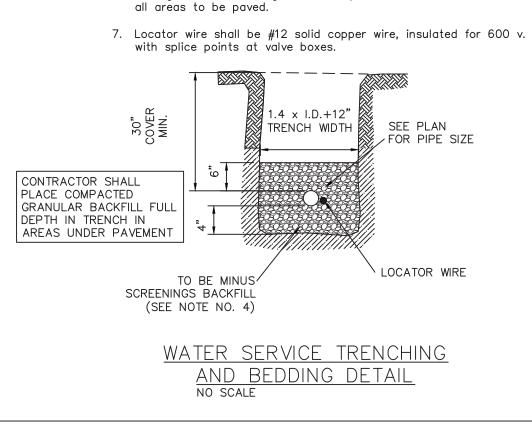
TYPICAL CATCH BASIN BOTTOM DETAIL NO SCALE



NEENAH R-1973-A OR EQUAL FINISHED GRADE 2" CLEARANCE 12" DEEP x 24" DIA. CONCRETE SUPPORT -PLIABLE SEALANT--4"ø PVC PIPE 45° ELBOW -─6" PVC FROST SLEEVE 4"ø PVC PIPE WYE CONNECTION -/-4"ø PVC PIPE ALL CONNECTIONS TO BE WATERTIGHT INV. ELEV. --4"ø PVC PIPE SANITARY SEWER CLEANOUT DETAIL



DOWNSPOUT COLLECTOR DETAIL



NEENAH R-1975-A OR EQUAL — 2" CLEARANCE-FINISHED GRADE 45° ELBOW — ALL CONNECTIONS TO

INVERT ELEV.

DOWNSPOUT CLEANOUT DETAIL

#4 BARS 12" O.C. EACH -WAY IN TOP, BOTTOM, & SIDES SECTION A—A SQUARE David P Van Leer, Pt MO# PE-2012018147 CURB INLET NO SCALE

FACE OF INLET

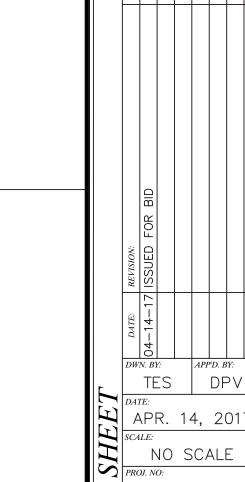
f Authority Numbers:

Enginéering : 001655 Architecture : 2002014240

Survey

Twe call ocall

000380



16-6416

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

5. CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH SETTLEMENT.

7. TRACER TAPE SHALL BE 3" WIDE, BONDED LAYER PLASTIC WITH MAGNETIC FOIL CORE, TERRA TAPE DETECTABLE, MANUFACTURED BY GRIFFOLYN CO. OF HOUSTON,

UNDERGROUND UTILITY TRENCHING DETAIL

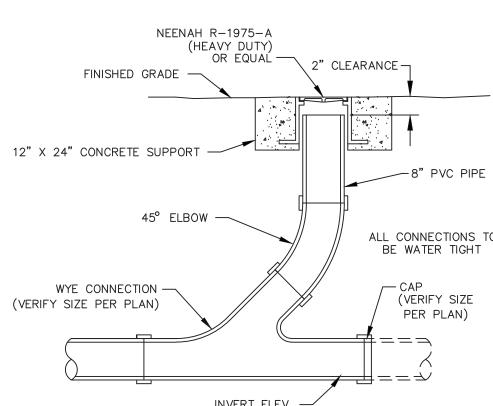
1. Backfill material for water main shall be suitable earth, free from large rocks or stones. 2. All trenches in areas of unsuitable earth used for water main shall have a bedding of well—graded, 1" minus, granular backfill from 4" below the bottom of the pipe to one—half the diameter of the pipe compacted to 95% of the Standard Proctor Density. (ASTM D-698)3. In areas of clean dirt cuts outside of paved areas, trench may

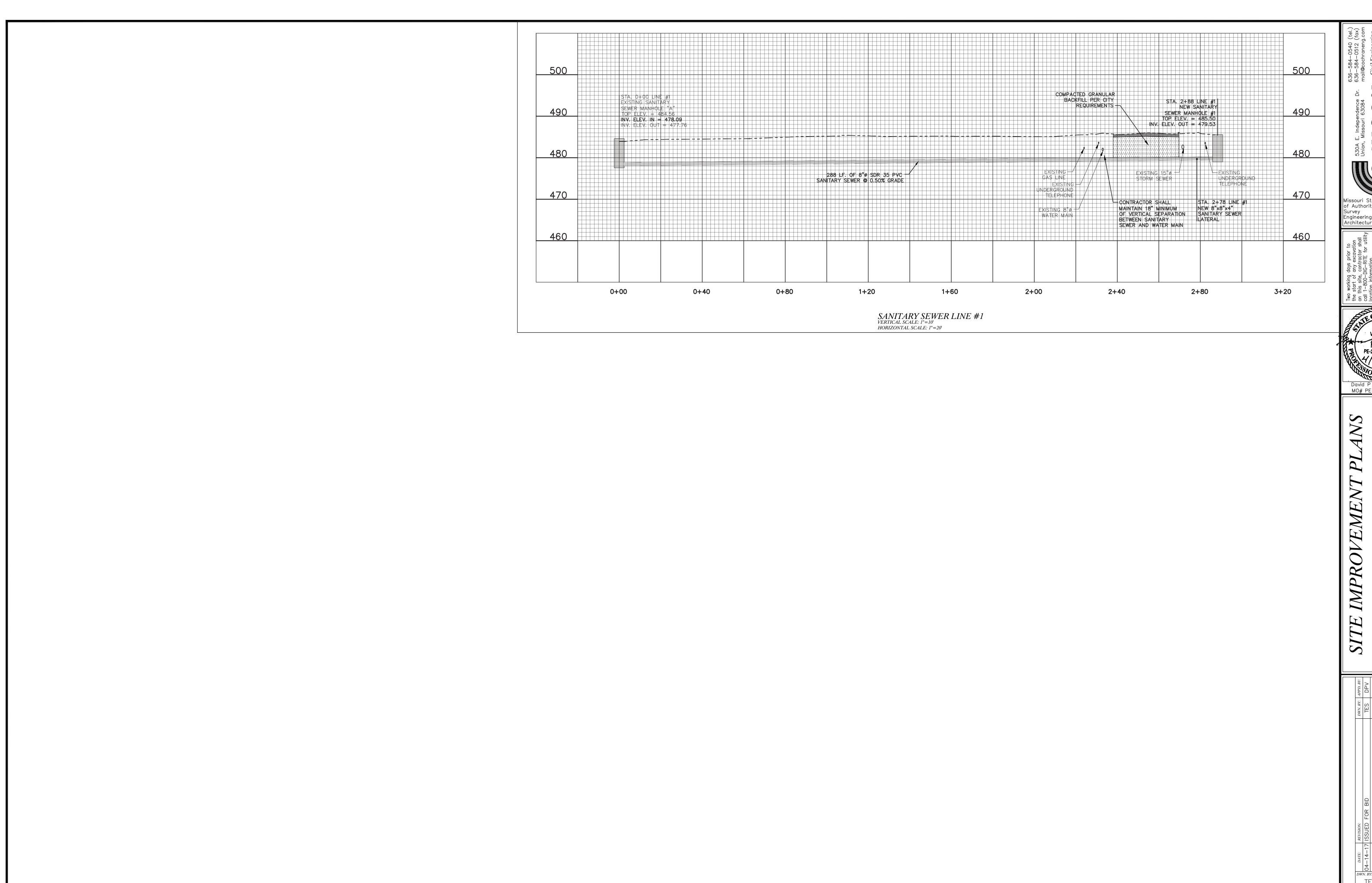
be backfilled with same material and compacted to 95% of the Standard Proctor Density. (ASTM D-698)

4. In areas of rock cut, the trench shall be backfilled with minus screenings compacted material to six inches above top of

5. Contractor shall be responsible for trench settlement.

6. Well—graded 1" minus granular compacted backfill to be used in





636–584–054
636–584–054
inchemoral branch of the second of

Missouri State Certificate
of Authority Numbers:
Survey : 000380
Engineering : 001655
Architecture : 2002014240

Two working days prior to the start of any excavation on this site, contractor shall call 1–800–DIG–RITE for utility location information.

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

DAVID P. VAN LEER
NUMBER
PE-2012018147

David P Van Leer, PE
MO# PE-2012018147

SITE IMPROVEMENT PLANS
SCENIC REGIONAL LIBRARY
PACIFIC, MISSOURI

SUED FOR BID

DIV. BY: APPD. BY:

TES DPV

TES DPV

ATE:

APR. 14, 2017

ALE:

NO SCALE

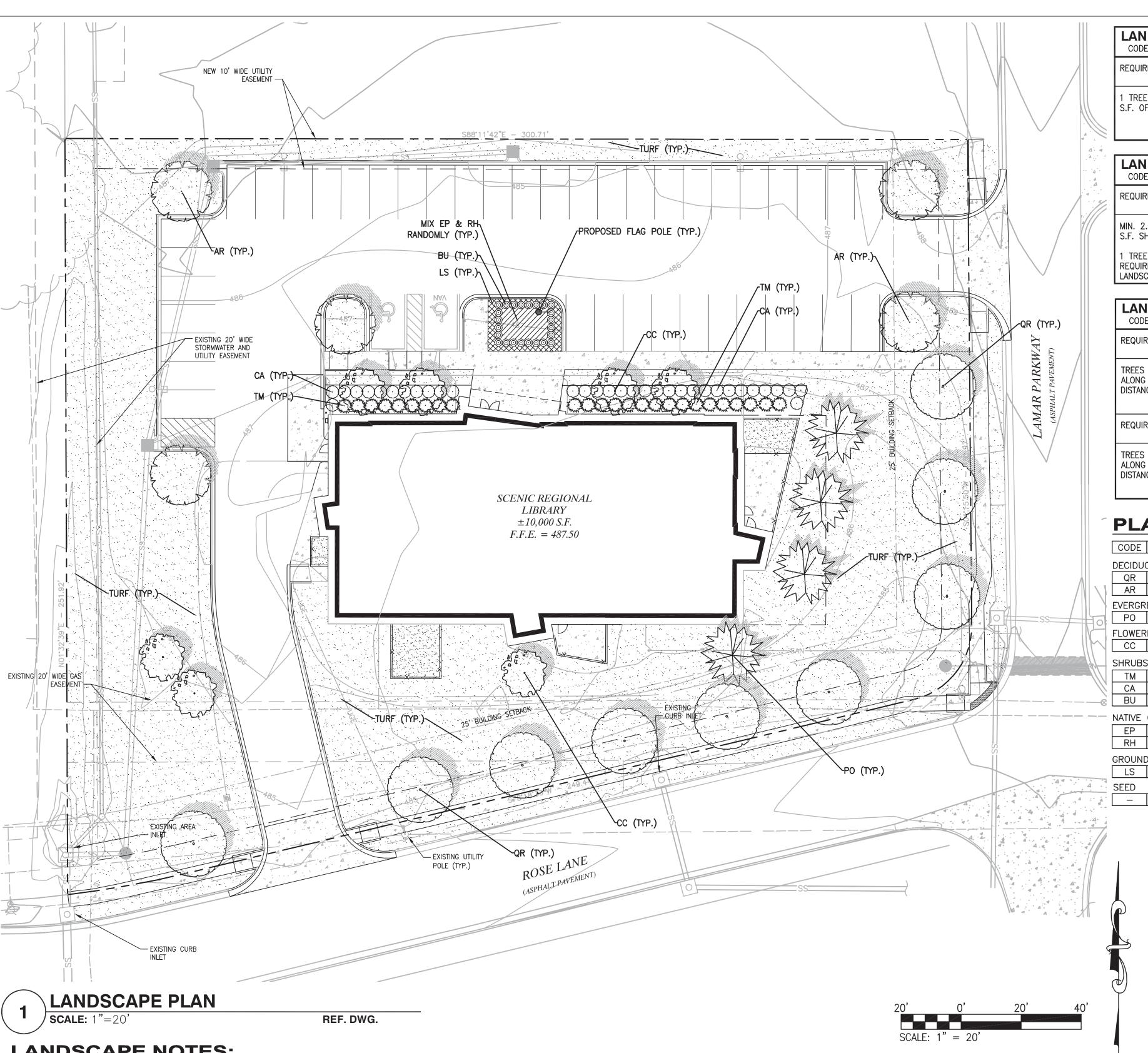
NO SCALE

NO SCALE

16-6416

WG. NO:

*D3* 



	LANDSCAPING AND SCREENING  CODE SEC. 400.230 B (1) - MIN. STANDARDS FOR LANDSCAPING OF COMMERCIAL, INDUSTRIAL & RESIDENTIAL USES						
	REQUIREMENTS	CALCULATIONS — REQUIRED LANDSCAPE	PROPOSED LANDSCAPE				
//	1 TREE AND 2 SHRUBS PER 5,000 S.F. OF TOTAL LOT AREA	65,578.3 S.F. TOTAL LOT AREA 65,578.3/5,000 = 13.1 = 14 14 X 1 = 14 TREES REQUIRED 14 X 2 = 28 SHRUBS REQUIRED	14 TREES PROPOSED 82 SHRUBS PROPOSED				

LANDSCAPING AND SCREENING CODE SEC. 400.230 B (3) (a) - MIN. PARKING LOT INTERIOR LANDSCAPE			
REQUIREMENTS	PROPOSED LANDSCAPE		
MIN. 2.5% OF TOTAL PARKING LOT S.F. SHALL BE LANDSCAPED	+/-16,750 S.F. PARKING LOT AREA 16,750 X 2.5% = 418 S.F.	+/- 642 S.F. LANDSCAPED AREA	
1 TREE FOR EACH 200 S.F. OF REQUIRED PARKING LOT LANDSCAPING	418 / 200 = 2.09 2 TREES REQUIRED	2 TREES PROPOSED	

LANDSCAPING AND SCREENING CODE SEC. 400.230 B (4) - TREES ALONG PUBLIC RIGHT OF WAY				
REQUIREMENTS - ROSE LANE	CALCULATIONS — REQUIRED LANDSCAPE	PROPOSED LANDSCAPE		
TREES SHALL BE PLANTED IN OR ALONG PUBLIC R.O.W. AT A DISTANCE OF 45 FEET APART	+/- 311 TOTAL FEET OF FRONTAGE 311 - 28' OF ENTRY DRIVE = 283 283/ 45 = 6 = 6 TREES REQUIRED	6 TREES PROPOSED AT 35' ON CENTER DUE TO SIGHT TRIANGLES AT STREET AND DRIVE INTERSECTIONS		
REQUIREMENTS — LAMAR PKWY.	CALCULATIONS — REQUIRED LANDSCAPE	PROPOSED LANDSCAPE		
TREES SHALL BE PLANTED IN OR ALONG PUBLIC R.O.W. AT A DISTANCE OF 45 FEET APART	+/- 181 TOTAL FEET OF FRONTAGE 181 - 28' OF ENTRY DRIVE = 153 153/ 45 = 3.4 = 3 TREES REQUIRED	3 TREES PROPOSED AT 35' ON CENTER DUE TO SIGHT TRIANGLES AT STREET AND DRIVE INTERSECTIONS		

### **PLANT SCHEDULE**

	CODE	QTY.	GENUS	SPECIES	COMMON NAME SIZE		COND.	COMMENTS
	DECIDUO	OUS TR	EES					
	QR	9	QUERCUS	RUBRA	NORTHERN RED OAK	2.5" CAL. MIN.	B&B	
	AR	5	ACER	RUBRUM	RED MAPLE	2.5" CAL. MIN.	B&B	
	EVERGR	EEN TR	EES					
	P0	4	PICEA	OMORIKA	SERBIAN SPRUCE	6' HT. MIN.	B&B	
	FLOWER	ING TRI	EES					
	CC	7	CERCIS	CANADENSIS	EASTERN REDBUD	1.5" CAL. MIN.	B&B	
	SHRUBS	;						
	TM	25	TAXUS	X MEDIA 'DENSIFORMIS'	YEW	3 GAL.	CONT.	
	CA	33	CEANOTHUS	AMERICANUS	NEW JERSEY TEA	2 GAL.	CONT.	
N N	BU	24	BUXUS	'GREEN VELVET'	GREEN VELVET BOXWOOD	18"-24" MIN.	CONT.	PLANT 30" O.C.
	NATIVE	GRASSE	S					
	EP	38	ECHINACEA	PURPUREA	PURPLE CONEFLOWER	SP4	CONT.	18" O.C.
	RH	38	RUDBECKIA	HIRTA	BLACK-EYED-SUSAN	SP4	CONT.	18" O.C.
	GROUND COVER							
	LS	100	LIRIOPE	SPICATA	LILY TURF	1 GAL.	CONT.	18" O.C.
	SEED						<del>.</del>	
	_	3,671	SY	_	FESCUE SEED	SEED	_	

- 32. CONTRACTOR SHALL OVER SEED ALL MAINTENANCE OR SERVICE ACCESS BENCHES AND ROADS WITH SPECIFIED SEED MIX UNLESS OTHERWISE NOTED ON THE PLANS.
- 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

DRAINAGE AREAS, OR UTILITY EASEMENTS. CONTACT OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT FOR 31. EXISTING TURF AREAS THAT ARE DISTURBED DURING CONSTRUCTION, ESTABLISHMENT AND THE MAINTENANCE PERIOD SHALL BE RESTORED WITH SEED TO MATCH EXISTING TURF SPECIES.

### **LANDSCAPE NOTES:**

### 1. LANDSCAPE CONTRACTOR TO VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE BEGINNING WORK.

- 2. 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 ARCHITECT.
- 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 23. ALL EVERGREEN TREES SHALL BE FULLY BRANCHED TO THE GROUND AND SHALL NOT EXHIBIT SIGNS OF 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,

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

RELOCATION OF PLANTS IN QUESTIONABLE AREAS PRIOR TO INSTALLATION.

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 THE FULL WIDTH OF THE SEEDER.

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read, explore, grow

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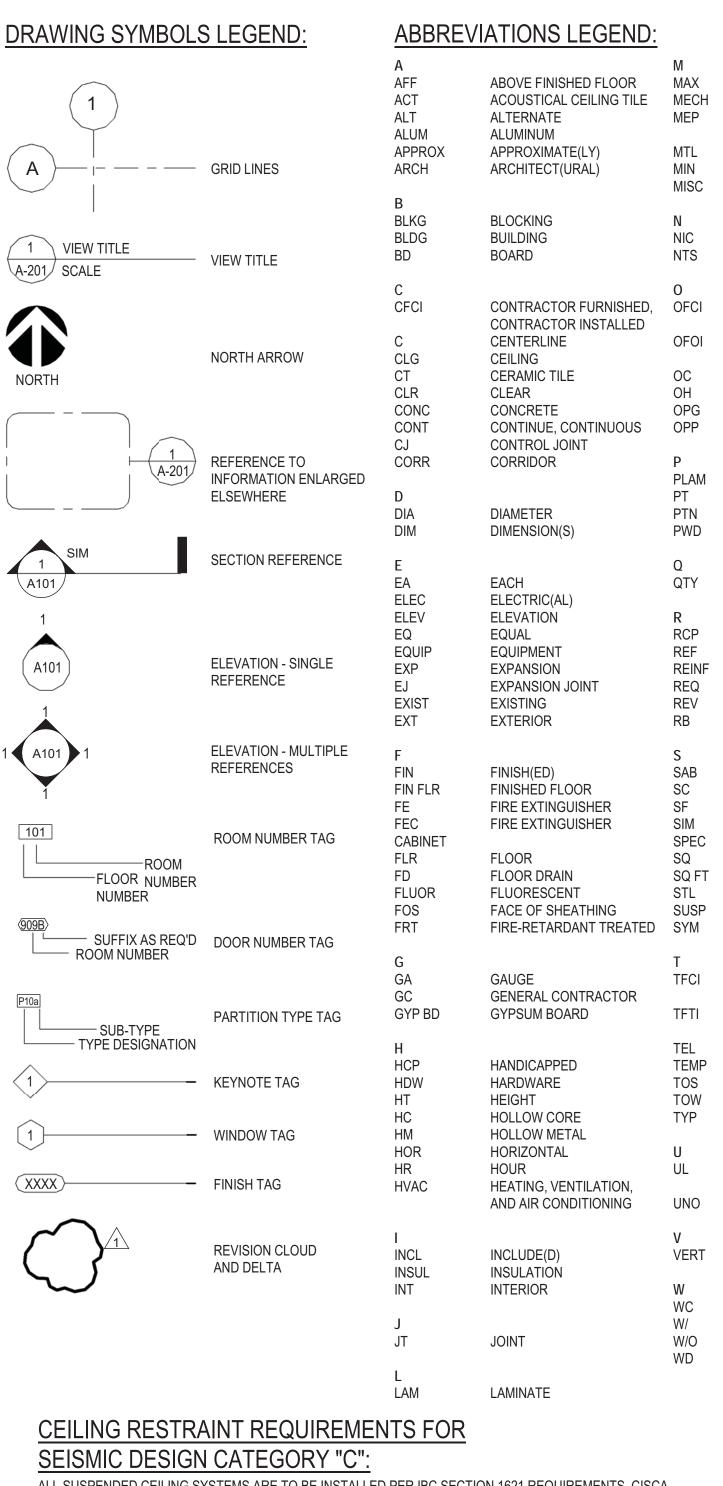
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PROJECT NUMBER: **16-1161.04** 

LANDSCAPE PLAN



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:

MINIMUM INTERSECTION STRENGTH LIMITS @ MAIN TEE/CROSS TEE IS 60 LBS.

PROVIDE MIN. 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.

PROVIDE MINIMUM 7/8" PERIMETER CLOSURE (MOLDING). IF MOLDING IS LESS THAN 7/8" PROVIDE NO. 12 GA. HANGER WIRES 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

TO WALL OR STRUCTURE ABOVE. PROVIDE MIN. 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.

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 PROVIDE (1) WIRE TO STRUCTURE (MAY BE SLACK). FOR RIGID LAY-IN OR CAN LIGHT FIXTURES WEIGHING FROM 10 TO 56 POUNDS PROVIDE (2) VERTICAL SUPPORT WIRES (MUST BE SLACK). FOR LIGHT FIXTURES GREATER THAN 56 POUNDS PROVIDE DIRECT AND INDEPENDENT SUPPORT FROM THE BUILDING

### STRUCTURE.

BRACING.

**SERVICE APPLICATIONS:** ALL MECHANICAL AIR TERMINALS MUST BE POSITIVELY ATTACHED TO THE CEILING GRID. FOR TERMINALS WEIGHING FROM 20 TO 56 POUNDS PROVIDE (2) VERTICAL SUPPORT WIRES (MAY BE SLACK.) FOR TERMINALS WEIGHING GREATER THAN 56 POUNDS PROVIDE DIRECT AND INDEPENDENT SUPPORT FROM THE BUILDING STRUCTURE.

SPRINKLER HEADS AND OTHER PENETRATIONS REQUIRE A MIN. 3/8" CLEARANCE ON ALL SIDES. CABLE TRAYS AND ELECTRICAL CONDUIT DO NOT REQUIRE INDEPENDENT SUPPORT OR

### **DEFINITION OF TERMS:**

MAXIMUM

**METAL** 

MINIMUM

**MISCELLANEOUS** 

NOT IN CONTRACT

OWNER FURNISHED,

OWNER FURNISHED,

OWNER INSTALLED

PLASTIC LAMINATE

REFLECTED CEILING PLAN

SOUND ATTENUATION BATTS

TENANT (CLIENT) FURNISHED,

TENANT (CLIENT) FURNISHED,

UNDERWRITERS LABORATORIES,

UNLESS NOTED OTHERWISE

CONTRACTOR INSTALLED

TENANT INSTALLED

TOP OF STRUCTURE

**TELEPHONE** 

TOP OF WALL

TYPICAL

VERTICAL

WITH

WITHOUT

WOOD

WALL COVERING

TEMPERED

OPPOSITE HAND

ON CENTER

**OPENING** 

OPPOSITE

PAINT(ED)

PARTITION

PLYWOOD

QUANTITY

REFERENCE

REQUIRED

REVISION

REINFORCE(D)

RESILIENT BASE

SOLID CORE

**SPECIFICATION** 

SUSPEND(ED)

SYMMETRICAL

SIMILAR

**SQUARE** 

STEEL

SQUARE FOOT (FEET)

SQUARE FOOT (FEET)

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 PERFORM PROFESSIONAL SERVICES ON THIS PROJECT.

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

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

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 NFORMATION INDICATED. IF DISCREPANCIES OCCUR, NOTIFY ARCHITECT IMMEDIATELY

THE WORD "PROVIDE" 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 SAME OR REPRESENTATIVE FOR SIMILAR 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 "+/-", INFORM ARCHITECT BEFORE PROCEEDING.

### GENERAL NOTES: REFLECTED CEILING PLAN

REVIEW CEILING 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 ACOUSTICAL CEILING GRID AND TILE SYSTEMS ON PLAN TO 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 SEISMIC INFORMATION 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

COORDINATE AND VERIFY LOCATION OF LIGHT SWITCHES, THERMOSTATS, FIRE ALARMS, 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 ROOM OR 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. TO

BE BUILDING STANDARD HEIGHT. REFER TO ELECTRICAL SHEETS FOR ELEC/COMM SYMBOLS AND ADDITIONAL INFORMATION. IDENTIFY AND COORDINATE LOCATIONS FOR ALL CEILING ELEMENTS INCLUDING LIGHTING, MECHANICAL DIFFUSERS, RETURN AIR GRILLES, FIRE PROTECTION DEVICES, ACCESS PANELS,

EXIT SIGNS, AUDIOVISUAL 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 SYSTEMS PT-2.

### **GENERAL NOTES: FINISH**

G.C. TO REVIEW AND 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 REVIEW. SUPPLY A MINIMUM OF FIVE COPIES OF EACH ITEM: ARCHITECT, GENERAL CONTRACTOR, SUB-CONTRACTOR, FIELD COPY, AND CLIENT.

REFER TO PLANS, RCP, FINISH LEGEND, AND DETAILS TO VERIFY FINISHES. REFER TO INDICATED ON PLAN FOR THE SAME WALL

THE FINISH NAME TAKES PRECEDENT OVER THE FINISH PRODUCT NUMBER WHEN ORDERING MATERIALS. CONTACT ARCHITECT WITH DISCREPANCIES BEFORE ORDERING MATERIALS

IDENTIFY AND INFORM CONSTRUCTION TEAM OF ALL CRITICAL PATH ITEMS, CRITICAL DEADLINES, AND DATE OF SUBSTANTIAL COMPLETION.

PATCH AND REPAIR EXISTING FINISHES AS REQUIRED WHERE DEMOLITION OR NEW CONSTRUCTION OCCURS. NEW FINISHES TO MATCH EXISTING IN MANUFACTURER. COLOR, FINISH, AND TEXTURE. WHERE MATERIALS ARE NOT AVAILABLE FOR EXACT MATCH, SUBMIT MATERIALS FOR SUITABLE REPLACEMENT BEFORE PURCHASE OR

PATCH AND REPAIR OR REPLACE ANY EXISTING FINISHES IN BUILDING COMMON AREAS OUTSIDE SCOPE OF WORK IF DAMAGE OCCURS RELATED TO THE CONSTRUCTION OF THE

75 AND SMOKE DEVELOPMENT RATING LESS THAN 450 AND ALL OTHER APPLICABLE CODES.

ALL IMPACT-RESISTANT PANELS TO BE CLASS 1 COMPONENTS. TESTED IN ACCORDANCE WITH UL-723 (ASTM-E849A) FLAME SPREAD 20 OR LESS. SMOKE DEVELOPED 400 OR LESS.

FUEL CONTRIBUTION 0, SMOKE DENSITY FACTOR 5. MAINTAIN AND PROTECT EXISTING FLOORING AND FINISHES TO REMAIN DURING CONSTRUCTION. CLEAN AND PREPARE FLOOR AREA SCHEDULED TO RECEIVE NEW FLOORING SO THE AREAS ARE ABLE TO ACCEPT NEW FLOORING, AND MAINTAIN REQUIRED FLOOR ASSEMBLY RATING, TO BE FLUSH AND CONTINUOUS WITH ADJACENT

11. U.N.O. ALL PARTITIONS, EXTERIOR WALLS AND COLUMNS TO RECEIVE PAINT PT-1 AND BASE RB-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 HOLLOW METAL FRAMES TO RECEIVE PAINT PT-3. REFER TO DOOR SCHEDULE

FOR ADDITIONAL INFORMATION. U.N.O. ALL METAL DOORS TO RECEIVE PAINT PT-3. REFER TO DOOR SCHEDULE FOR

U.N.O. ALL PAINTED SURFACES TO RECEIVE A MINIMUM OF ONE (1) PRIMER COAT AND THEN TWO (2) FINISH PAINT COATS. TINT PRIMER COAT PER MANUFACTURER'S

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.

17. U.N.O. ALL GLASS IN DOORS AND SIDELITES TO BE GLASS GL-2.

FOR ADDITIONAL INFORMATION. ANY WALLCOVERING WITH RECOR BACKING TO BE ADHERED WITH HEAVY-DUTY CLAY

**ADHESIVE** CLEAN AND PREPARE FLOOR AREA TO ACCEPT NEW FLOORING, MAINTAINING REQUIRED

SURFACE, AS REQUIRED FOR NEW FINISH. U.N.O. ALL FLOORING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION.

VERIFY WITH ALL MANUFACTURERS AND SUPPLIERS

TRANSITION DETAILS FOR ALL FLOORING CHANGES U.N.O. ALL RESILIENT BASE TO BE RESILIENT BASE RB-1, 4" STRAIGHT AT CARPET AND 4"

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 INFORMATION.

AFTER HANGING 3 LENGTHS OF THE WALLCOVERING MATERIAL, CHECK FOR ANY DEFECTS. IF THERE IS A PROBLEM CONTACT YOUR SUPPLIER IMMEDIATELY, IF THE PROBLEM CAN NOT BE RESOLVED IN A TIMELY MANNER, CONTACT THE ARCHITECT.

28. U.N.O. ALL CABINETS HARDWARE PULLS HW-1.

U.N.O. ALL MILLWORK BACKSPLASHES TO BE 4" TALL.

U.N.O. ALL MILLWORK INTERIORS TO BE WHITE MELAMINE. PAINT ALL PLYWOOD TO MATCH NEW WALL FINISH TO WHICH IT IS ATTACHED.

ALL WOOD SHALL BE OF THE SAME SPECIES AND SAME CUT OF WOOD.

ALL WOOD (VENEER, HARDWOOD) SHALL BE ORDERED AT THE SAME TIME FROM THE SAME LOT WITH A SAMPLE 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. MILLWORK CONSTRUCTION TO COMPLY WITH LATEST EDITION OF A.W.I. STANDARDS.

G.W.B. CEILINGS, SOFFITS, BULKHEADS - FLAT HOLLOW METAL SURFACES - SEMI-GLOSS PAINTED WOOD SURFACES - SEMI-GLOSS

NEW 2'x2' CEILING GRID AND TILE, SEE FINISH LEGEND COORDINATE WITH CLIENT FOR SPECIFICATION

NEW GYPSUM BOARD CEILING

RECESSED CAN LIGHT FIXTURE LINEAR PENDANT FIXTURE

SUPPLY DIFFUSER RETURN DIFFUSER

**EXIT SIGN** 

ELEVATIONS FOR ADDITIONAL FINISH INFORMATION OR WHERE MULTIPLE FINISHES ARE

INSTALLATION. SCOPE OF WORK

ALL INTERIOR FINISH AND SUNDRIES TO MEET OR EXCEED CLASS II FLAME SPREAD, 26 -

ALL VINYL WALL COVERING FIRE HAZARD CLASSIFICATION (ASTM-E-84) FLAME SPREAD 5,

FLOOR SURFACE. AS REQUIRED FOR NEW FINISH.

ADDITIONAL INFORMATION

**SPECIFICATIONS** 

ADDITIONAL FINISH COATS WILL BE REQUIRED

U.N.O. ALL WOOD DOORS AND TRIM TO RECEIVE STAIN ST-1. REFER TO DOOR SCHEDULE

FLOOR ASSEMBLY RATING, TO BE FLUSH AND CONTINUOUS WITH ADJACENT FLOOR

U.N.O. ALL FLOORING TRANSITIONS TO BEGIN AT CENTER LINE UNDER DOOR. REFER TO

COVE AT HARD SURFACE FLOORING.

U.N.O. ALL WALLCOVERING SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

U.N.O. ALL EXPOSED ENDS AND OPEN MILLWORK TO MATCH FINISH OF EXTERIOR MILLWORK.

WOOD VENEERS TO BE APPLIED FLUSH AND SMOOTH TO SUBSTRATE WITH NO RIPPLING TOLERATED.

NO GLUE UP WOOD BASE TOLERATED.

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

G.W.B. VERTICAL WALL SURFACES - EGGSHELL (SATIN) CONCRETE MASONRY UNIT - EGGSHELL

### **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 WITH THE WORK.

THE CONTRACTOR SHALL THOROUGHLY REVIEW THE 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 OMISSIONS THAT MAY BE DISCOVERED. IN SUCH CASES THE CONTRACTOR IS TO OBTAIN

CLARIFICATION OR VERIFICATION OF INTENT PRIOR TO PROCEEDING WITH THE WORK. THE WORK IS TO BE PERFORMED IN CONFORMANCE WITH APPLICABLE WRITTEN CODES ORDINANCES, LAWS, RULES, REGULATIONS AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. IF THE CONTRACTOR PERFORMS OR PROCEEDS IN A MANNER CONTRARY TO ANY SUCH REQUIREMENTS THE CONTRACTOR ASSUMES FULL RESPONSIBILITY THEREFORE AND SHALL BEAR COSTS RESULTING FROM NONCOMPLIANCE OR VIOLATION, 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 THE CONTRACT DOCUMENTS THAT ARE NOT IN CONFORMANCE WITH APPLICABLE REQUIREMENTS

THE CONTRACTOR IS TO MAINTAIN ON SITE A COPY OF THE APPLICABLE EDITION OF THE UL FIRE RESISTANCE DIRECTORY AND OTHER FIRE RESISTIVE STANDARDS REFERENCED IN THE CONTRACT DOCUMENTS FOR USE BY INSPECTORS AT TIMES OF INSPECTION CONTRACT DOCUMENTS SHALL NOT BE REPRODUCED AS THE BASIS FOR REQUIRED SUBMITTALS UNLESS PRIOR WRITTEN PERMISSION HAS BEEN OBTAINED FROM THE ARCHITECT. SUBMITTALS CONTAINING CONTRACT DOCUMENTS OR PORTIONS OF CONTRACT DOCUMENTS WILL BE REJECTED

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 PROVIDED OUTSIDE THE CONTRACT SCOPE REPRESENTED IN THESE DOCUMENT. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH NIC ITEMS AND

AND RETURNED TO THE CONTRACTOR WITHOUT ACTION OR COMMENT. AND ARE NOT TO BE USED

COOPERATE TO AFFECT THE IMPLEMENTATION OF SUCH WORK OR INSTALLATION. DETAILS NOT SHOWN ARE TO BE SIMILAR 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.

PROVIDE BLOCKING IN STUD WALLS BEHIND ITEMS SUPPORTED BY WALLS, OF SIZES, LENGTHS AND HEIGHTS AS REQUIRED. ATTACH BLOCKING TO STUDS WITH TYPE, SIZE, NUMBER AND SPACING OF ANCHORS AS REQUIRED TO PROPERLY SUPPORT LOADS OF ITEMS SUPPORTED. WHERE WOOD BLOCKING IS USED IT IS TO BE FIRE RETARDANT TREATED. WHERE METAL IS USED PROVIDE 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 GYPSUM BOARD DUE TO THICKNESS OF PLATES BETWEEN STUDS AND GYPSUM BOARD

TO PREVENT GALVANIC ACTION BETWEEN DISSIMILAR METALS, WHERE DISSIMILAR METALS COME INTO CONTACT WITH EACH OTHER, WHERE METALS COME INTO CONTACT WITH WOOD, CONCRETE OR MASONRY, WHERE RUNOFF FROM A METAL SURFACE FLOWS OVER A DISSIMILAR METAL, OR WHERE NON-PASSIVE METAL FASTENERS PENETRATE DISSIMILAR METALS, BREAK THE CONTACT BETWEEN MATERIALS WITH A HEAVY WATERPROOF PAPER OR FELT, A HEAVY COAT OF BITUMINOUS COATING OR AN ELASTOMERIC FILM UNLESS OTHER SEPARATOR IS INDICATED IN THE CONTRACT

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 THERMAL MOVEMENTS WITHOUT VISIBLE DISTORTIONS, LEAKS OR FAILURES OF THE FLASHING SYSTEM'S ABILITY TO PERFORM AS REQUIRED BY THE CONTRACT DOCUMENTS.

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

EDGE OF DOOR SHALL BE LOCATED 6" OFF PERPENDICULAR WALL UNLESS OTHERWISE NOTED.

JOB SITE AND SHALL NOTIFY ARCHITECT OF ANY OMISSIONS, DISCREPANCIES, AND/OR CONFLICTS BEFORE PROCEEDING WITH THE JOB. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. LARGE SCALE DETAILS GOVERN OVER SMAL

PARTITIONS SHALL BE DIMENSIONED TO FACE OF PARTITION UNLESS NOTED OTHERWISE. ALL DISSIMILAR 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 ASSEMBLIES. 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 PROVIDES THE GREATEST DEGREE OF ACCESSIBILITY FOR ANY GIVEN BUILDING ELEMENT.

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 PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR ALL EXITS SERVING A REQUIRED ACCESSIBLE SPACE, BUT NOT PROVIDING AN ACCESSIBLE MEANS OF EGRESS, SHALL PROVIDE SIGNS INDICATING THE LOCATION OF ACCESSIBLE MEANS OF EGRESS.

SIGNS WILL BE BY OWNER AND INSTALLED BY CONTRACTOR.

INSTALLED BY CONTRACTOR.

LAVATORY LOCATIONS.

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 U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. WHEN SLIDING DOORS ARE FULLY OPEN, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. HARDWARE REQUIRED FOR

ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" ABOVE FINISH FLOOR. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN 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 MINIMUM OPENING 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 DEVICES THAT MAY HOLD THE DOOR IN A CLOSED POSITION.

TACTILE SIGNAGE SHALL BE LOCATED ON THE WALL ADJACENT TO THE DOOR'S SIDE AND AT A HEIGHT OF 60 INCHES ABOVE THE FLOOR. SIGNS MAY BE LATCH PLACED ON THE NEAREST ADJACENT WALL WHEN THERE IS NO WALL SPACE ON THE LATCH SIDE.

EACH GLAZING UNIT SHALL BEAR THE MANUFACTURER'S LABEL DESIGNATING THE TYPE AND 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, PROVIDED BY OWNER AND

ALL BUILDING ENTRANCES / EXITS ARE ACCESSIBLE. ACCESSIBLE DOORS SHALL HAVE A LANDING ON BOTH SIDES. LANDINGS SHALL BE NO MORE THAN 1/2 INCH BELOW THE TOP OF THE DOOR THRESHOLD.

FOR CORNER GUARD LOCATIONS & INFORMATION REFERENCE THE FINISH LEGEND AND FINISH REFER TO AWI STANDARDS FOR MILLWORK CONSTRUCTION.

DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE ON THE LOWER 10 INCHES.

INSTALL MOISTURE RESISTANT GYP. BOARD AT ALL WALLS, INCLUDING BUT NOT LIMITED TO

read, explore, grow

7 d

<u> ARCHITECT-OF-RECORD</u> 3005 LOCUST ST. ST. LOUIS, MO 63103

Γ (314) 531-7400 CONTACT: SCOTT CLARK E-MAIL: SCLARK@JEMASTL.COM DESIGN ARCHITECT SAPP DESIGN ASSOCIATES ARCHITECTS

SPRINGFIELD, MO 65804 T (417) 877-9600 <del>=</del> (417) 877-9696 CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHITECTS.COM

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UNION, MO 63084 CONTACT: DAVE VAN LEER Γ (636) 584-0540 F (636) 584-0512 E-MAIL: DVANLEER@COCHRAN.COM STRUCTURAL ALPER AUDI, INC.

1804 BORMAN CIRCLE DRIVE

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530A E. INDEPENDENCE DRIVE

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ARCHITECT OF RECORD:

JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039554

MO CERTIFICATE OF AUTHORITY A2014008380

No.	Date	Description
	06/13/17	ISSUED FOR RE-BID

DRAWN BY: SC/SH

PROJECT NUMBER: **16-1161.04** SHEET TITLE: SYMBOLS, ABBREVIATIONS AND

**GENERAL NOTES** 

### **EQUIPMENT LEGEND:**

COFFEE MAKER (T.F.C.I.) CM PROVIDE REQUIRED ELECTRICAL AND PLUMBING.  $\sqcup \sqcup \sqcup$ 

AND ADDITIONAL REQUIREMENTS.

F = = = =REFRIGERATOR (T.F.C.I.) PROVIDE ELECTRICAL DUPLEX RECEPTACLE. REF COORDINATE WITH CLIENT FOR SPECIFICATION AND ADDITIONAL REQUIREMENTS.

I IM

ICE MAKER (T.F.C.I.): PROVIDE REQUIRED ELECTRICAL AND PLUMBING. COORDINATE WITH CLIENT FOR SPECIFICATION

AND ADDITIONAL REQUIREMENTS. F== MICROWAVE (T.F.T.I.): PROVIDE REQUIRED ELECTRICAL. COORDINATE WITH CLIENT FOR SPECIFICATION AND ADDITIONAL

REQUIREMENTS.

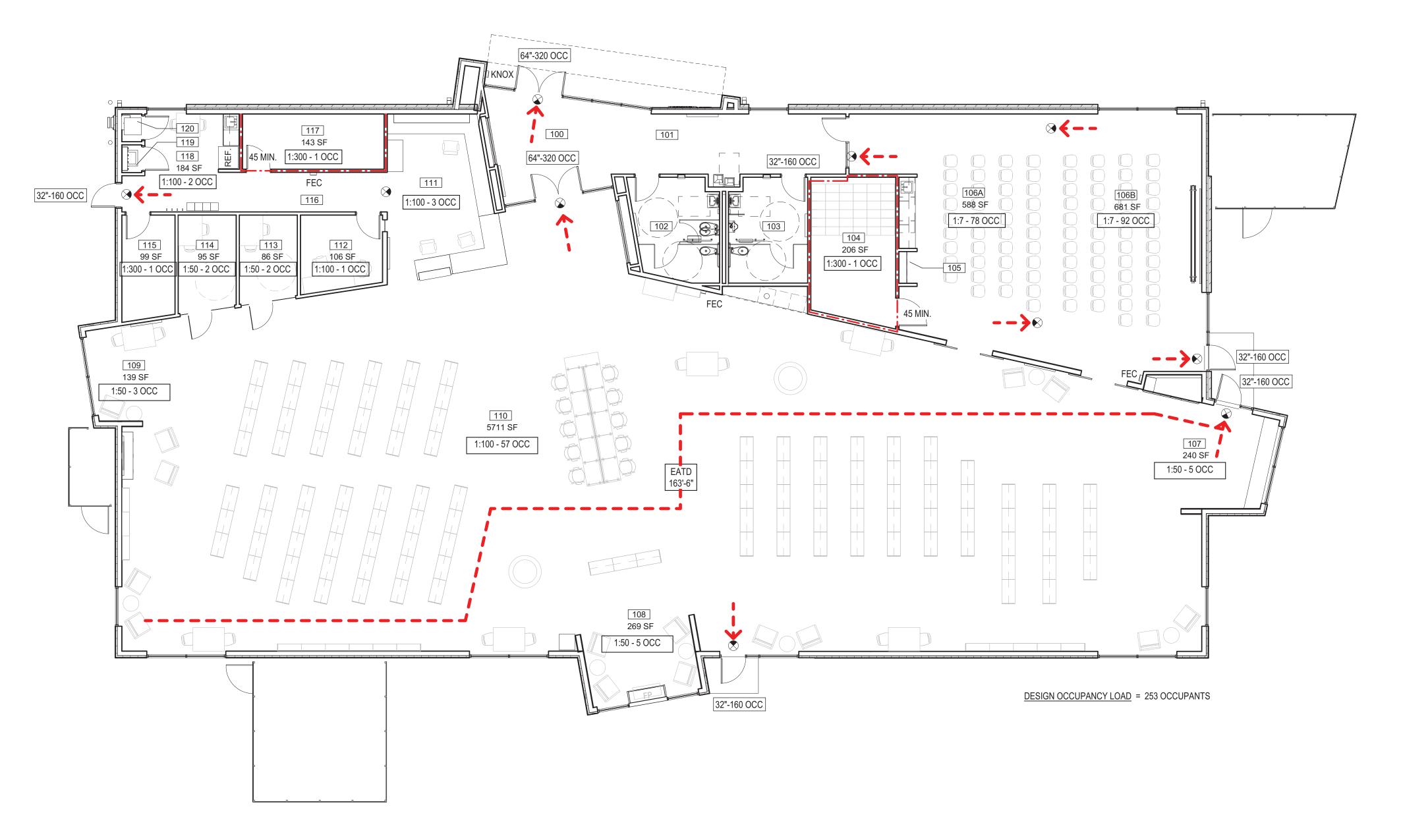
VENDING - SNACK (T.F.C.I.): F = = = =PROVIDE REQUIRED ELECTRICAL. COORDINATE **VEND** WITH CLIENT FOR SPECIFICATION AND

ADDITIONAL REQUIREMENTS.

### REFLECTED CEILING SYMBOLS LEGEND:

2'x2' FLUORESCENT LIGHT FIXTURE 2'x4' FLUORESCENT LIGHT FIXTURE

DECORATIVE PENDANT FIXTURE



NORTH LIFE SAFETY PLAN

### **CODE INFORMATION**

ACCESSIBILITY:

CITY OF PACIFIC, MO (FRANKLIN COUNTY) <u>AUTHORITIES HAVING JURISDICTION:</u> PACIFIC FIRE PROTECTION DISTRICT

**BUILDING CODE:** INTERNATIONAL BUILDING CODE (IBC) 2003 EDITION,

INCLUDING APPENDIX CHAPTERS E,F AND I.

ICC/ANSI A117.1, REFERENCED BY BUILDING CODE FIRE PREVENTION: INTERNATIONAL FIRE CODE (IFC) 2003 EDITION,

AMERICANS WITH DISABILITIES ACT

INCLUDING APPENDIX CHAPTERS B, C, D, E, F and G

MECHANICAL: INTERNATIONAL MECHANICAL CODE (IMC) 2003 EDITION, INCLUDING APPENDIX CHAPTER A.

**ELECTRICAL**: INTERNATIONAL ELECTRICAL CODE (ICC) 2003 EDITION

PLUMBING: INTERNATIONAL PLUMBING CODE (IPC) 2003 EDITION, INCLUDING APPENDIX CHAPTERS B, C, D, E, F and G

PROPERTY MAINTENANCE: INTERNATIONAL PROPERTY MAINTENANCE CODE (IPMC) 2003 EDITION.

INTERNATIONAL FUEL GAS CODE 2003 EDITION, INCLUDING APPENDIX CHAPTERS B, AND D.

### **BUILDING INFORMATION**

### **RATINGS**

SE GROUPS		ELEMENT:	RATING:
-3	ASSEMBLY, LIBRARY	COLUMN	0 HOUR
-1	MODERATE HAZARD STORAGE (ACCESSORY USE, SEE LIFE	CORRIDOR	0 MINUTE
	SAFETY PLAN, SHEET A-002)	DOOR	0 MINUTE
		FLOOR	0 HOUR
ONSTRUCTIO	<u>ON TYPE:</u>	STORAGE	0 HOUR

NON-SPRINKLERED, NOT PROTECTED

REFER TO CISCA GUIDELINES FOR REQUIREMENTS

<u>AREA:</u> FLOOR: ACTUAL GSF DESIGN OCCUPANCY: FIRST FLOOR 9,988 SF 253 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=208'-8", P= 417'-0", W=30'-0")

FIRE RESISTANCE RATINGS -HOURS:

BUILDING ELEMENT TYPE TYPE IIB

STRUCTURAL FRAME, COLUMNS, GIRDERS & TRUSSES BEARING WALLS - EXTERIOR / INTERIOR NON-BEARING WALLS & PARTITIONS -INTERIOR FLOOR CONSTRUCTION INCLUDING BEAMS & JOIST ROOF CONSTRUCTION INCLUDING BEAMS & 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:

OCCUPANCY TYPE: AREA PER OCCUPANT

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

SECTION 903 AUTOMATIC SPRINKLER SYSTEM:

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

SECTION 903.2.1.3 GROUP A-3 AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED 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 SERVING SUCH OCCUPANCIES.

SECTION 1016.1 EXIT ACCESS TRAVEL DISTANCE:

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

### **SYMBOL LEGEND**

	1-HOUR RATED WALL PARTITION
KNOX	RECESSED KNOX BOX CABINET
FEC	SEMI-RECESSED FIRE EXTINGUISHER CABINET
	EGRESS PATH
X:X - X OCC	XOCC= AREA PER OCCUPANCY LOAD
XX" - X OCC	XX= CLEAR OPENING IN INCHES AND EGRESS CAPACITY
EATD X'-X"	EXIT ACCESS TRAVEL DISTANCE, MAX. CONDITION/WORST CASE INDICATED



DIRECTION/LOCATION OF EGRESS

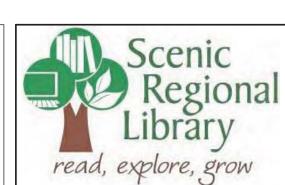
CONDITION/WORST CASE INDICATED

EXIT SIGN

VESTIBULE CORRIDOR WOMEN MEN STORAGE COATS MEETING ROOM A MEETING ROOM B CHILDREN AREA ADULT AREA TEEN AREA CIRCULATION **WORK ROOM** OFFICE STUDY STUDY MECH/ELEC CORRIDOR STORAGE **BREAK ROOM** JANITORS CLOSET BOOK DROP

ROOM SCHEDULE

NUMBER





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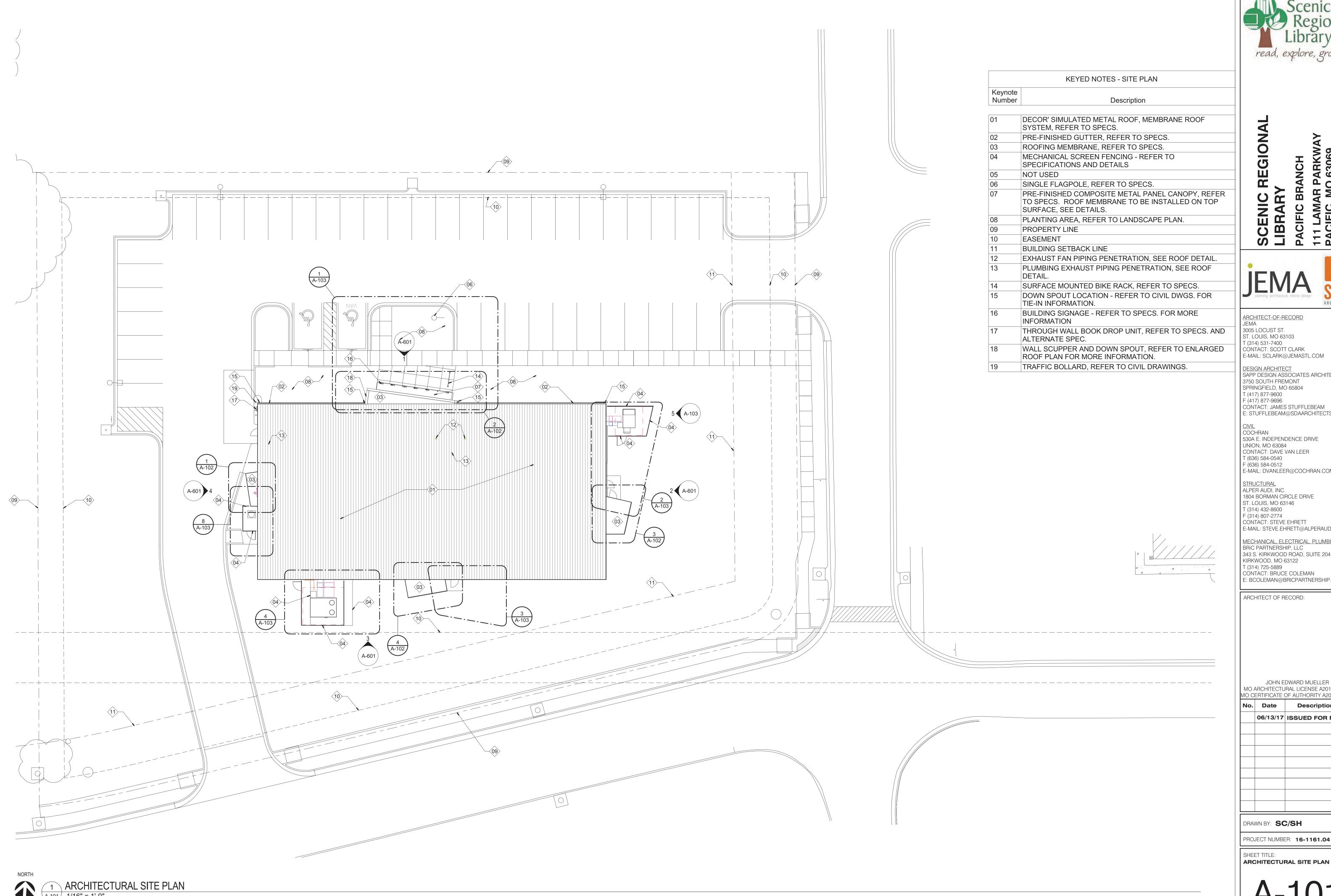
MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTNERSHIP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO 63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BCOLEMAN@BRICPARTNERSHIP.COM

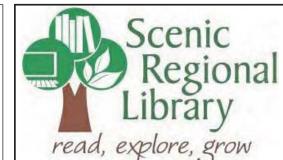
ARCHITECT OF RECORD:

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

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No.	Date	Description
	06/13/17	ISSUED FOR RE-BI
DRA	WN BY: SC	S/SH
DD.C	IFOT NII IN 455	
I PRO	JECT NUMBE	R: <b>16-1161.04</b>

SHEET TITLE: LIFE SAFETY PLAN





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

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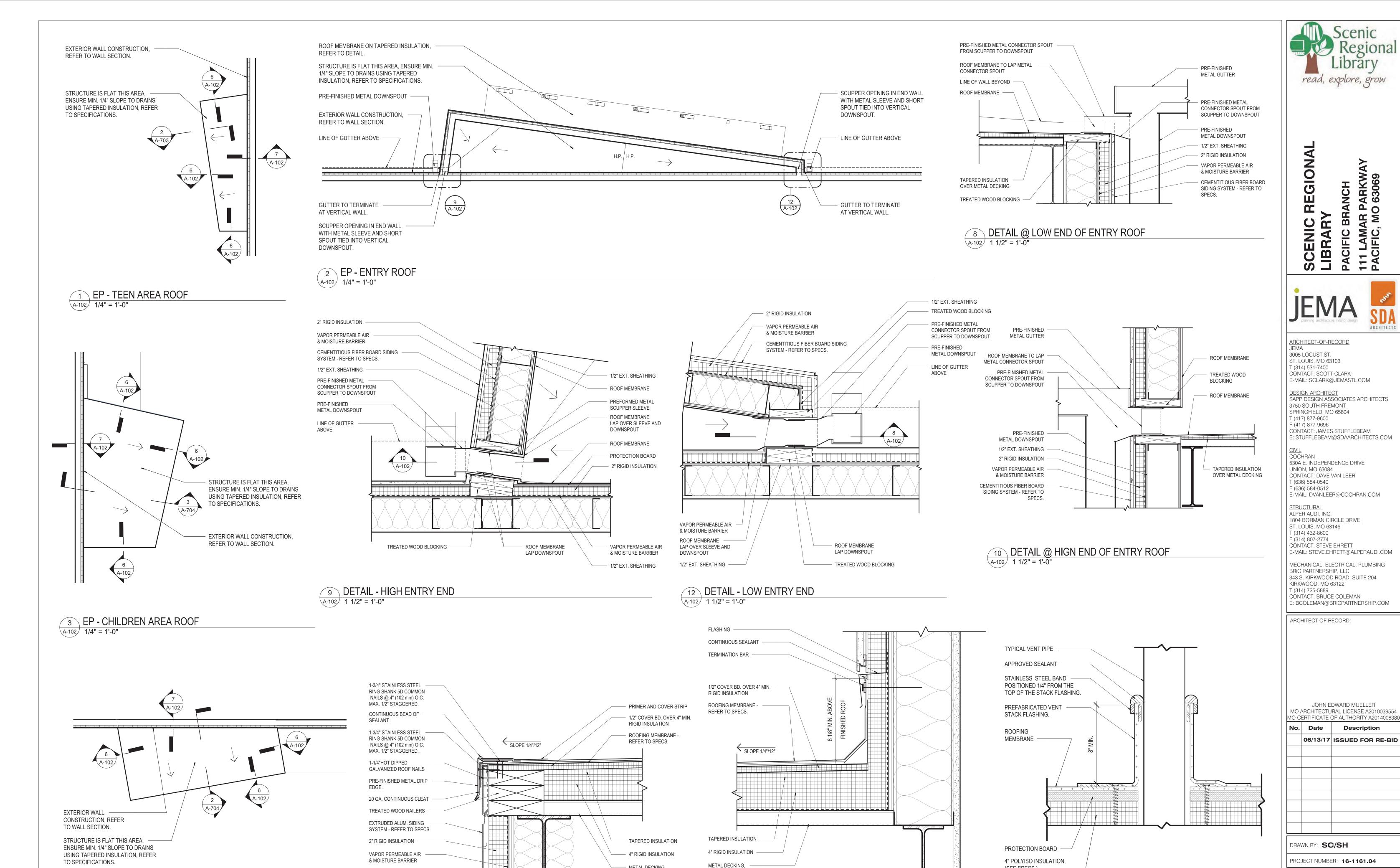
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PROJECT NUMBER: 16-1161.04



METAL DECKING,

1/2" EXT. SHEATHING

A-102 3" = 1'-0"

6 DETAIL - ROOF DRIP EDGE

4 EP - ADULT AREA ROOF

A-102 1/4" = 1'-0"

REFER TO STRUCT.

REFER TO STRUCT.

A-102 3" = 1'-0"

7 DETAIL - ROOF TO VERT. WALL

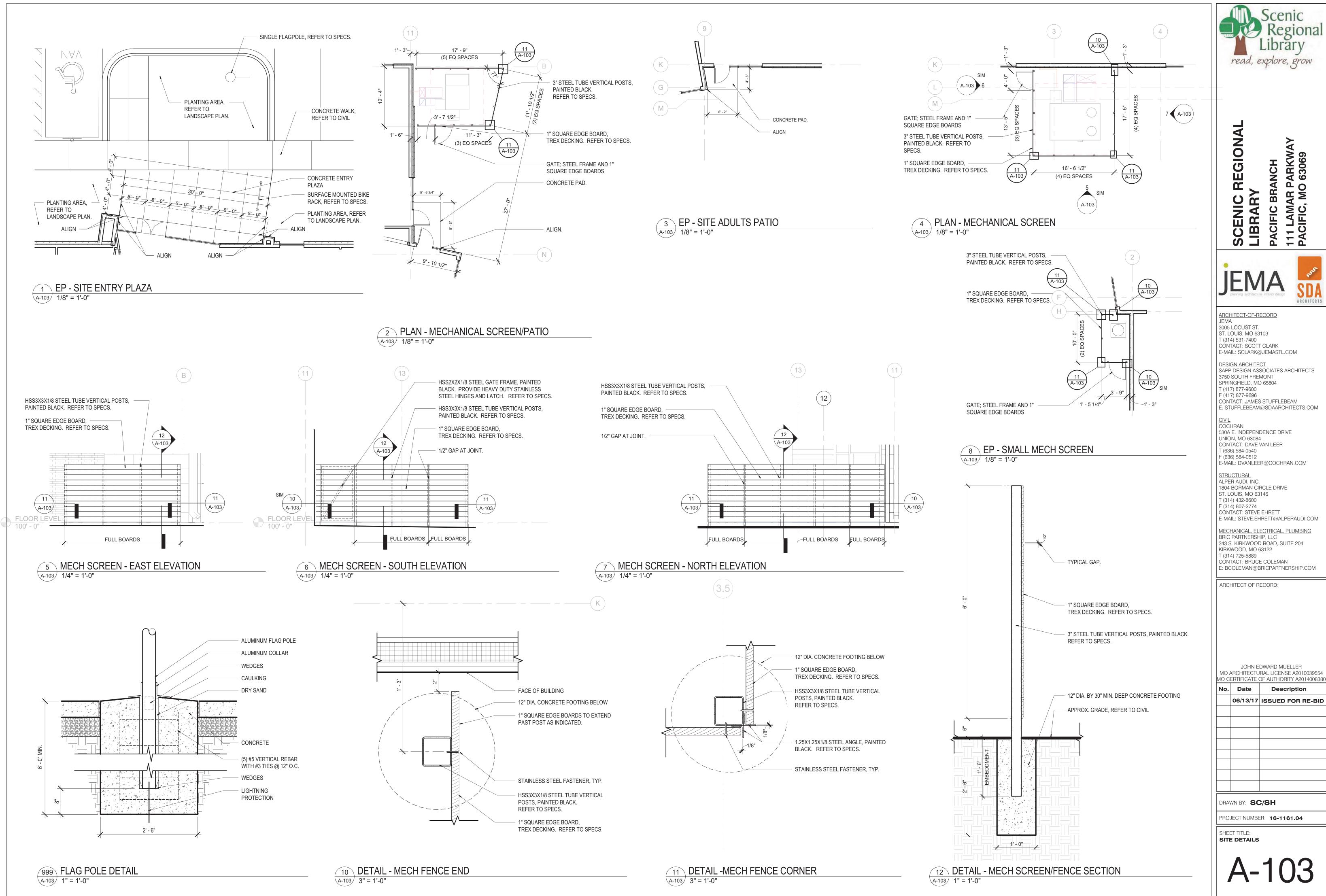
SHEET TITLE: ENLARGED ROOF PLANS AND ROOF DETAILS

(SEE SPECS.) -

A-102 1" = 1'-0"

5 DETAIL - ROUND PENETRATION

Description



read, explore, grow

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

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1804 BORMAN CIRCLE DRIVE

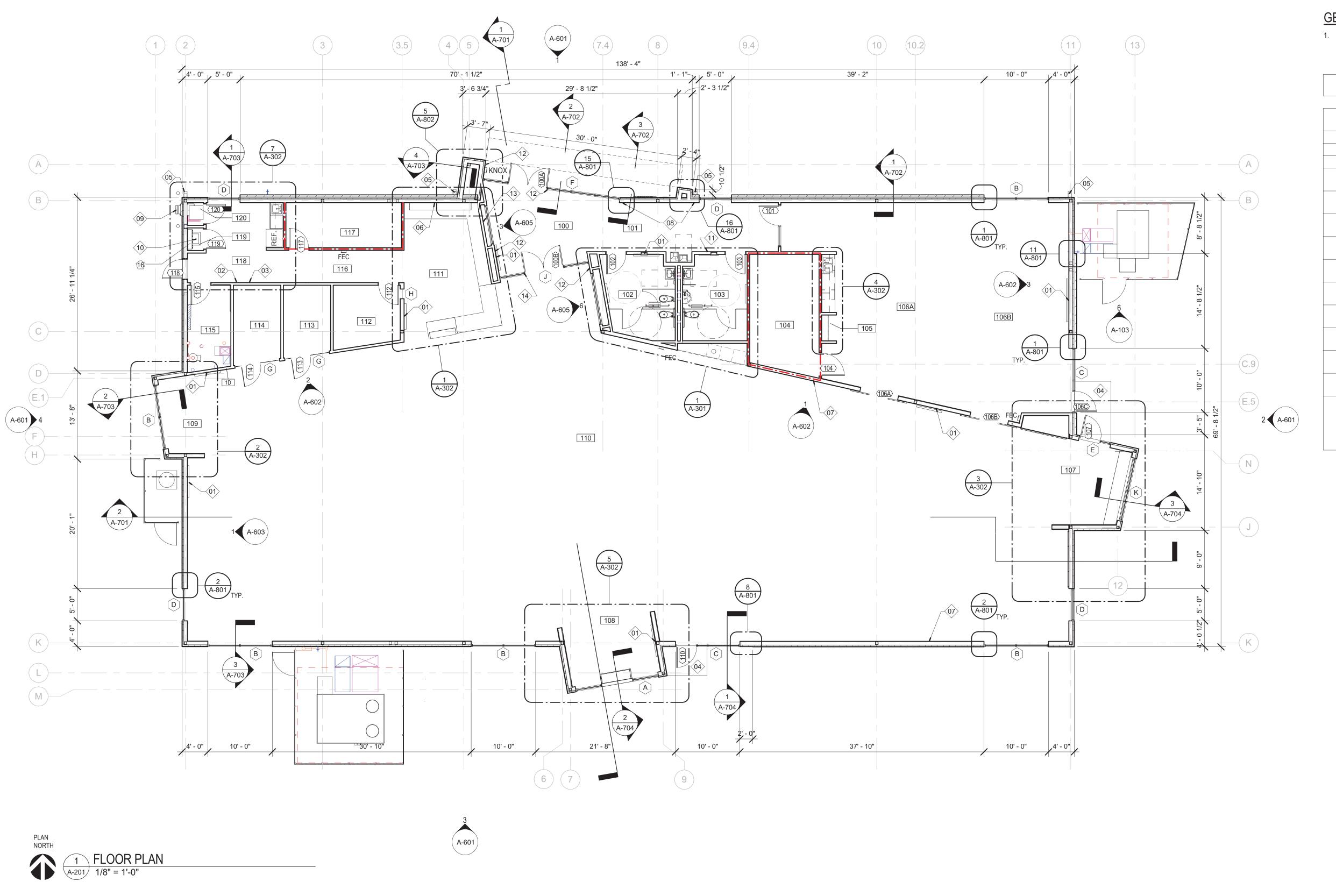
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ARCHITECT OF RECORD:

JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039554

Description 06/13/17 ISSUED FOR RE-BID



### **GENERAL NOTES - FLOOR PLAN**

1. REFER TO SHEET A-001 FOR FLOOR PLAN GENERAL NOTES

### KEYED NOTES - FLOOR PLAN

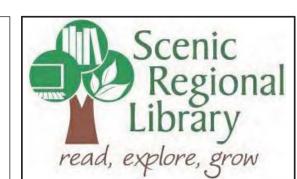
- PROVIDE BLOCKING IN WALL FOR WALL-MOUNTED
- PROVIDE BLOCKING IN WALL FOR COAT HOOKS PROVIDE BLOCKING IN WALL FOR LOCKERS
- CONCRETE PAD.
- DOWN SPOUT LOCATION REFER TO ARCHITECTURAL SITE PLAN AND CIVIL DWGS.
- 06 PROVIDE BLOCKING IN WALL FOR WALL-HUNG SHELVING
- BOARD, C.F.C.I. PROVIDE BLOCKING IN WALL FOR WALL-HUNG

PROVIDE BLOCKING IN WALL FOR BULLETIN

- CABINETS PROVIDE BLOCKING IN WALL FOR DONOR WALL,
- O.F.O.I.
- IN-WALL BOOK DROP UNIT, REFER TO DETAILS AND SPECIFICATIONS.
- JANITOR'S MOP SINK, REFER TO PLUMBING DRAWINGS AND SPECIFICATIONS.
- 11 PROVIDE BLOCKING IN WALL FOR LOCKING BULLETIN BOARD CASE, C.F.C.I. 12 LOCATION OF ADA DOOR OPERATOR, REFER TO
- DOOR HDWR. AND ELECTRICAL DRAWINGS. PROVIDE BLOCKING IN WALL FOR SLAT WALL

INSTALLATION.

SURFACE APPLIED SELF-CONTAINED DOOR COUNTER DEVICE TO BE RELOCATED FROM EXISTING FACILITY, NO POWER OR DATA CONNECTION REQUIRED. COORDINATE WITH OWNER, O.F.C.I.



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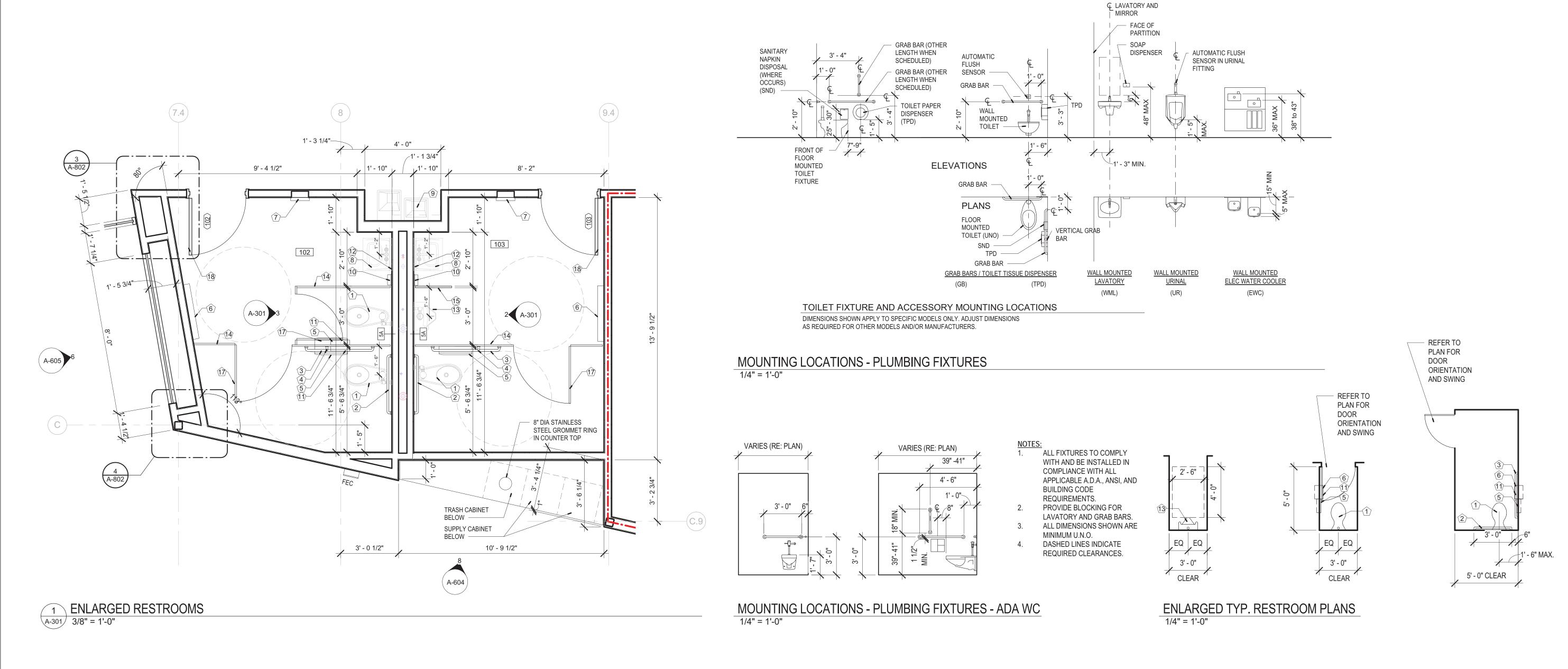
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ROOM SCHEDULE		No.	Date	Description
	NAME		00/40/4	
			06/13/17	ISSUED FOR RE-BID
	VESTIBULE			
	CORRIDOR			
	WOMEN			
	MEN			
	STORAGE			
	COATS			
	MEETING ROOM A			
	MEETING ROOM B			
	CHILDREN AREA			
	ADULT AREA			
	TEEN AREA		I	
	CIRCULATION	DRA	WN BY: SC	C/SH
		1		

PROJECT NUMBER: 16-1161.04

SHEET TITLE: FLOOR PLAN

ROOM SCHEDULE NUMBER WORK ROOM OFFICE STUDY STUDY MECH/ELEC CORRIDOR STORAGE BREAK ROOM JANITORS CLOSET **BOOK DROP** 

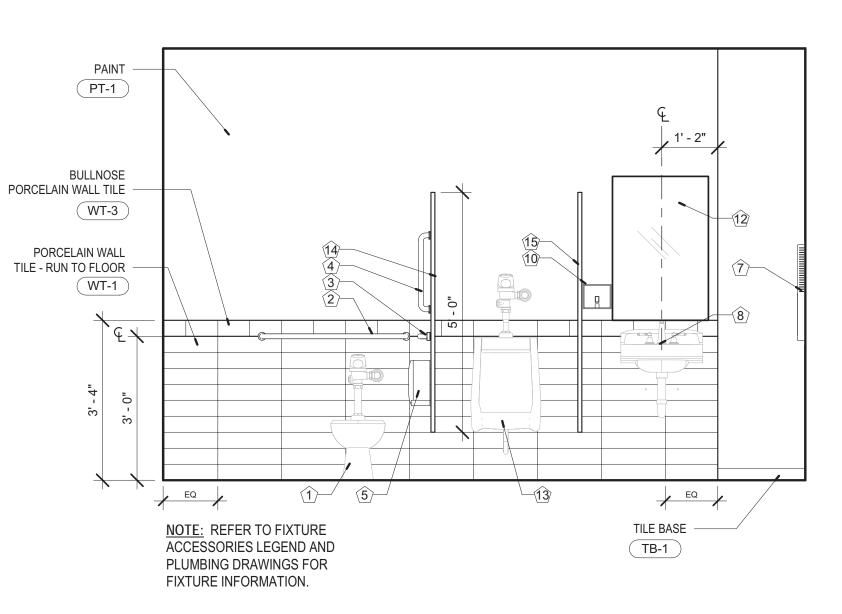


- PLUMBING FIXTURES AND ACCESSORIES LEGEND:

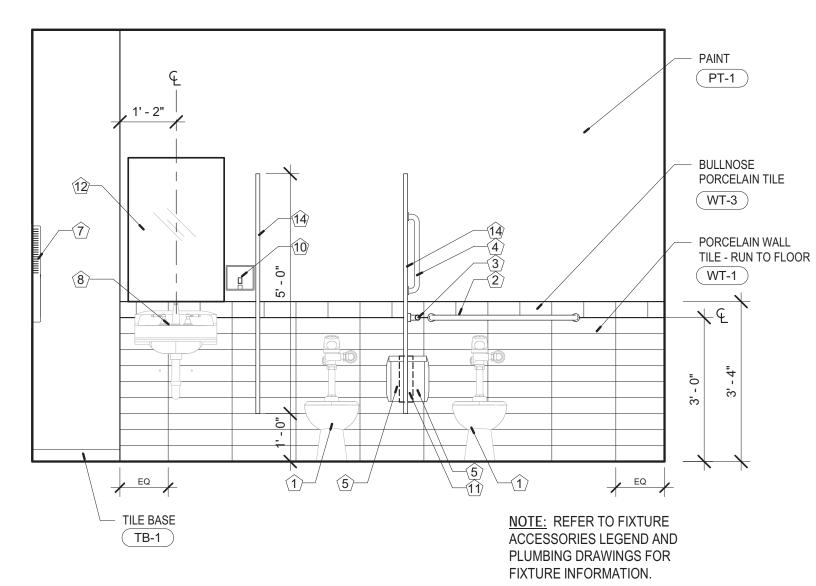
  ALL FIXTURES, ACCESSORIES, AND INSTALLATIONS TO BE ACCESSIBLE AND IN FULL COMPLIANCE WITH ICC/ANSI 117.1, NUMBERS IN BRACKETS REFER TO ICC/ANSI 117.1 SECTION.
- 1 FLOOR-MOUNTED TOILET: SEE PLUMBING SPECS.
- GRAB BAR: BOBRICK #B-5806 X 36 HORIZONTAL GRAB BAR WITH CONCEALED MOUNTING, SATIN FINISH STAINLESS STEEL PROVIDE NECESSARY BLOCKING IN WALL FOR MOUNTING
- GRAB BAR: BOBRICK #B-5806 X 42 HORIZONTAL GRAB BAR WITH CONCEALED MOUNTING, SATIN FINISH STAINLESS STEEL
- GRAB BAR: 18" GRAB BAR BOBRICK MODEL #B6086 VERTICAL GRAB BAR WITH CONCEALED MOUNTING, SATIN FINISH STAINLESS STEEL
- 5 TOILET TISSUE DISPENSER: BOBRICK #B-2888 CLASSIC SERIES MULTI-ROLL TOILET TISSUE DISPENSER, SURFACE-MOUNTED
- 6 CHANGING STATION: KOALA KARE PRODUCTS #KB-200, SURFACE-MOUNTED SERIES -PROVIDE NECESSARY BLOCKING IN WALL FOR MOUNTING

- RECESSED AUTOMATIC HAND DRYER:
  BOBRICK #B-3725, TRIMLINE SERIES, SEMIRECESSED, SATIN FINISH STAINLESS STEEL PROVIDE NECESSARY BLOCKING IN WALL FOR
  MOUNTING
- 8 WALL-MOUNTED LAVATORY: SEE PLUMBING SPECS.
- DRINKING FOUNTAIN: BI-LEVEL ADA COMPLIANT, SEE PLUMBING SPECS.
- SOAP DISPENSER: BOBRICK #B-2111 CLASSIC SERIES SURFACE-MOUNTED, SATIN-FINISH STAINLESS STEEL PROVIDE NECESSARY BLOCKING IN WALL FOR MOUNTING
- SANITARY DISPOSAL: BOBRICK #B-354 CLASSIC SERIES PARTITION-MOUNTED DUAL SIDED, SATIN FINISH STAINLESS STEEL (WOMEN'S RESTROOMS ONLY)
- MIRROR: BOBRICK #B-165-2448, SERIES CHANNEL-FRAMED MIRROR 24"X48"
- WALL-MOUNTED URINAL: SEE PLUMBING SPECS.

- 14 TOILET PARTITION: SEE SPECIFICATIONS
- 15 URINAL SCREEN: SEE SPECIFICATIONS
- 16 UTILITY SHELF W/BROOM HOLDER: BOBRICK #B-224 UTILITY SHELF WITH MOP/BROOM HOLDERS AND RAG HOOKS
- 17 COAT HOOKS: BOBRICK #B-2116 HEAVY-DUTY CLOTHES HOOK WITH CONCEALED MOUNTING.
- 18 FOOT DOOR PULL: SEE SPECIFICATIONS







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

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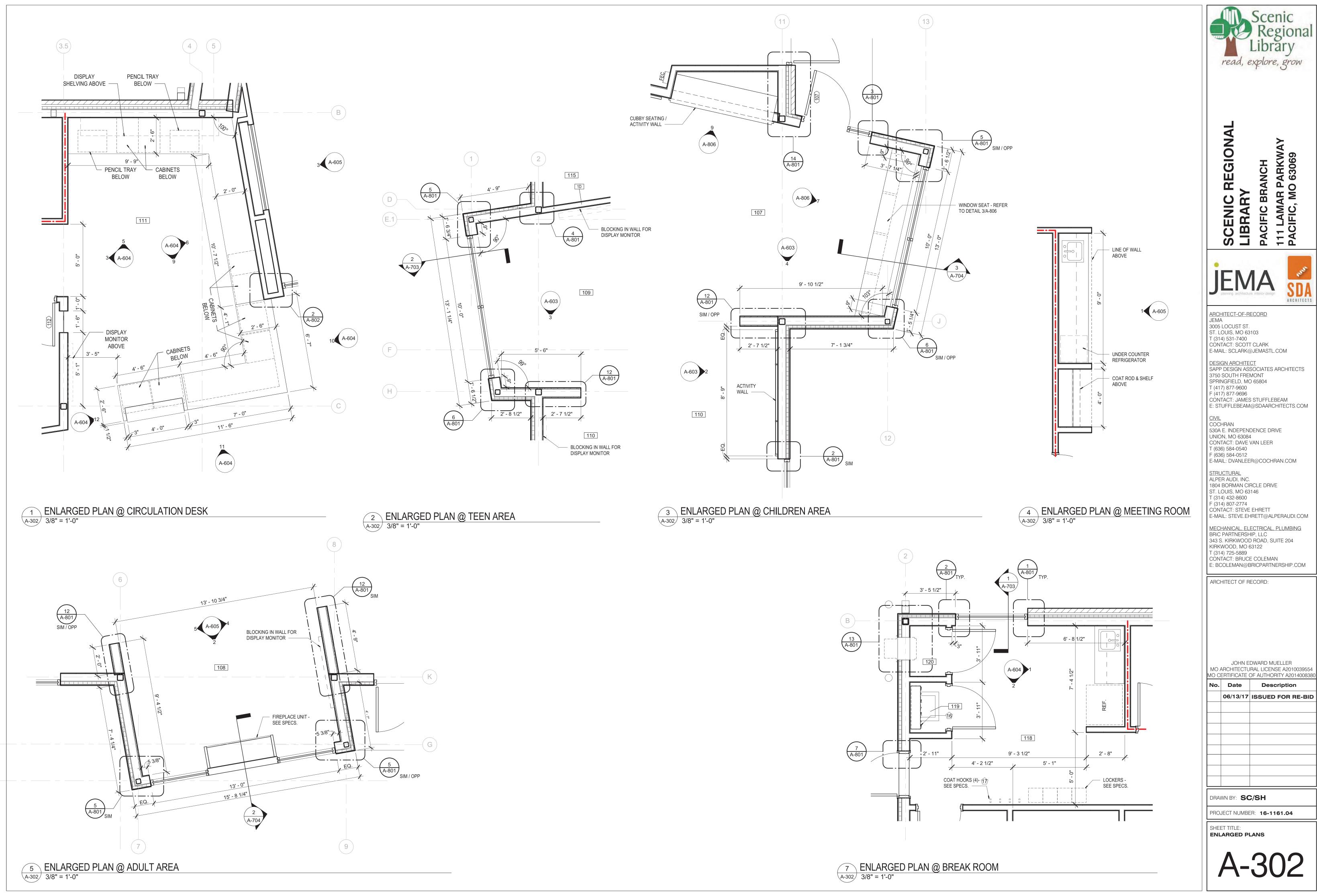
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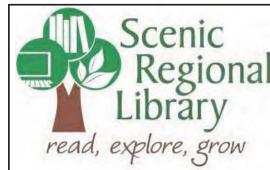
JOHN EDWARD MUELLER
MO ARCHITECTURAL LICENSE A2010039554
MO CERTIFICATE OF AUTHORITY A2014008380

No.	Date	Description
	06/13/17	ISSUED FOR RE-BID

DRAWN BY: **SC/SH**PROJECT NUMBER: **16-1161.04** 

SHEET TITLE: ENLARGED PLANS





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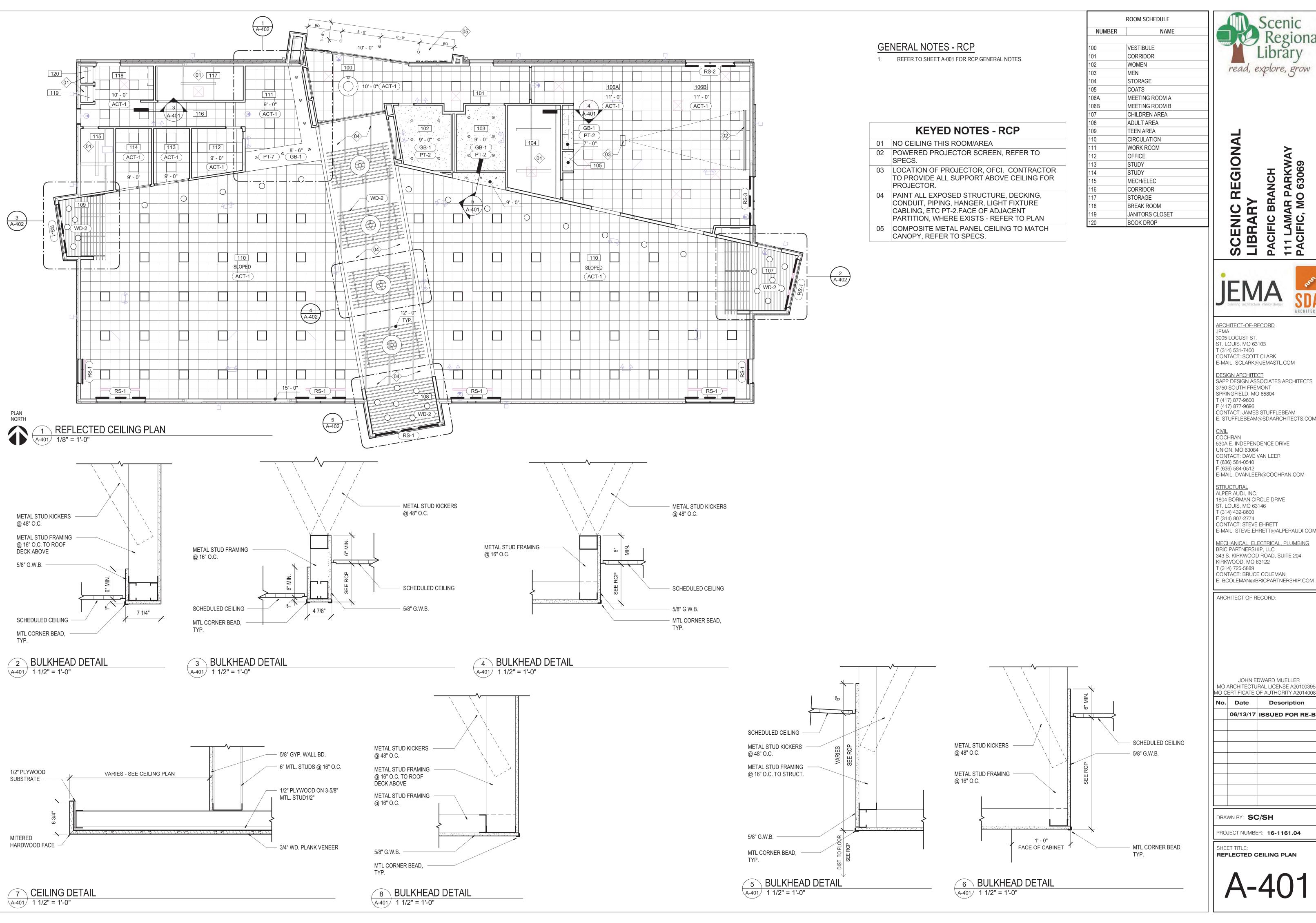
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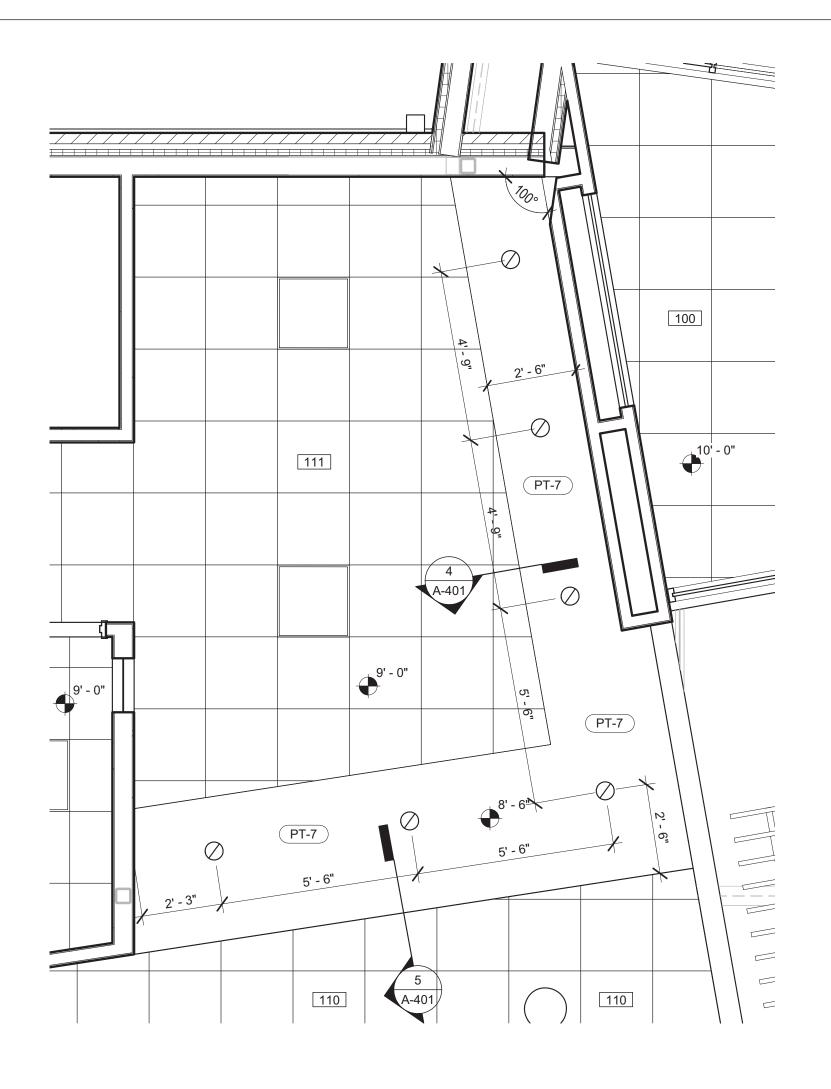
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NO.	Date	Description
	06/13/17	ISSUED FOR RE-BID
	·	

PROJECT NUMBER: 16-1161.04

SHEET TITLE: REFLECTED CEILING PLAN



1 ENLARGED CEILING PLAN @ CIRCULATION DESK A-402 3/8" = 1'-0"

3 A-808

7 A-808

CEILING BULKHEAD

- 2"X2" STEEL SUPPORT FRAME

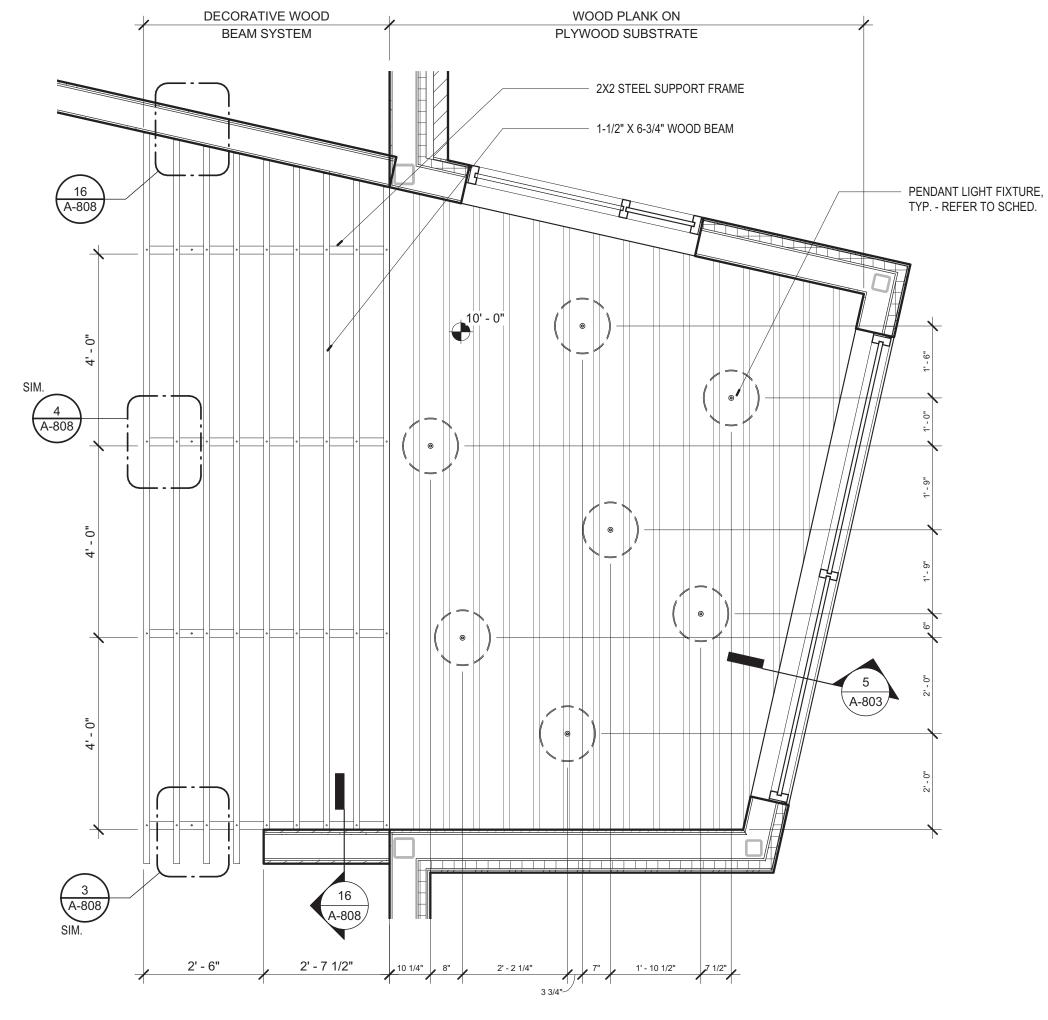
SCHEDULED LIGHT FIXTURE

12' - 8"

5' - 3"

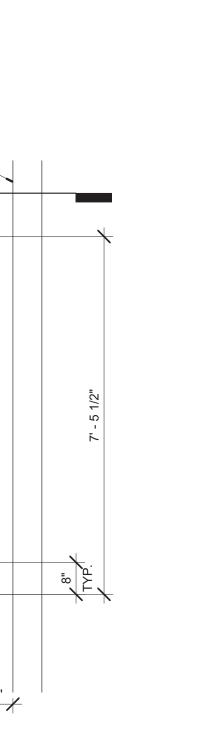
A-401

— 1-1/2" X 6-3/4" WOOD BEAM



2 ENLARGED CEILING PLAN @ CHILDREN

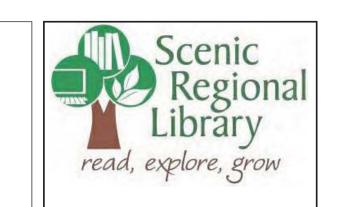
5 ENLARGED CEILING PLAN @ ADULT
1/2" = 1'-0"



4 ENLARGED CEILING PLAN @ DECORATIVE CLOUD

1/2" = 1'-0"

5' - 3"



DECORATIVE WOOD

BEAM SYSTEM

115

2' - 6"

PLYWOOD SUBSTRATE

3 ENLARGED CEILING PLAN @ TEENS

2X2 STEEL SUPPORT FRAME

1-1/2" X 6-3/4" WOOD BEAM

PENDANT LIGHT FIXTURE, TYP. - REFER TO SCHED. -

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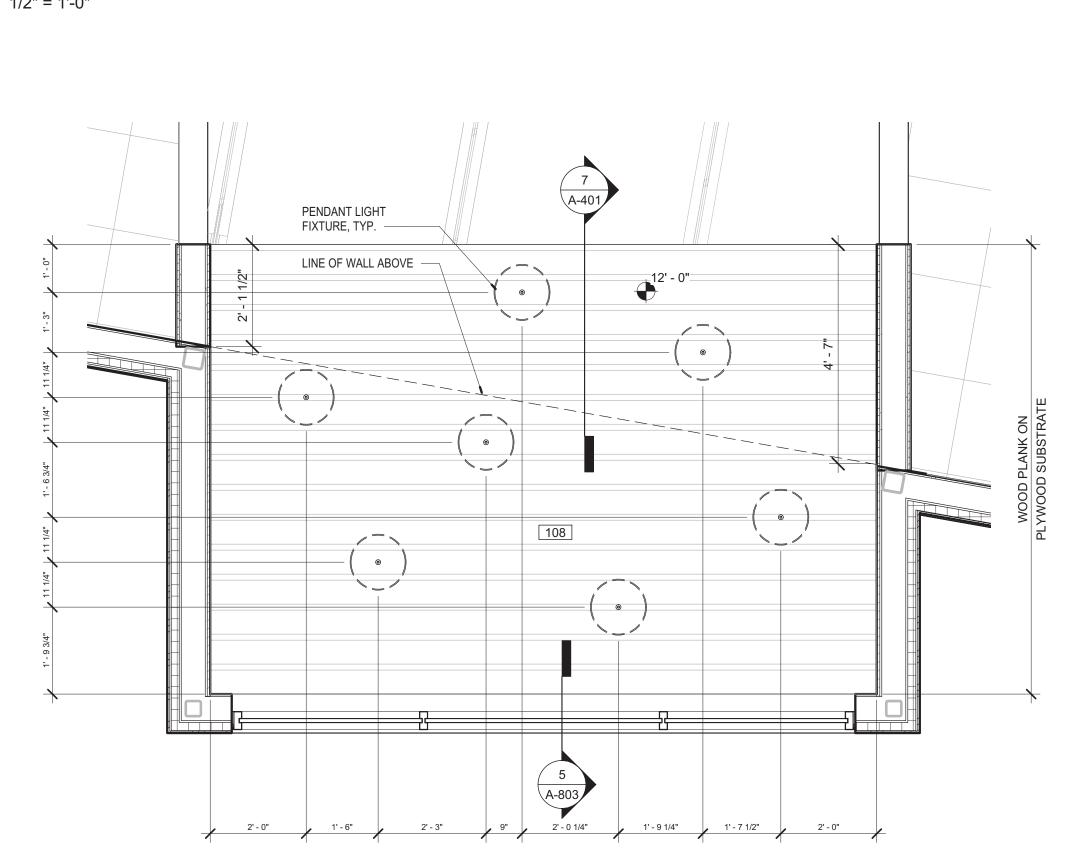
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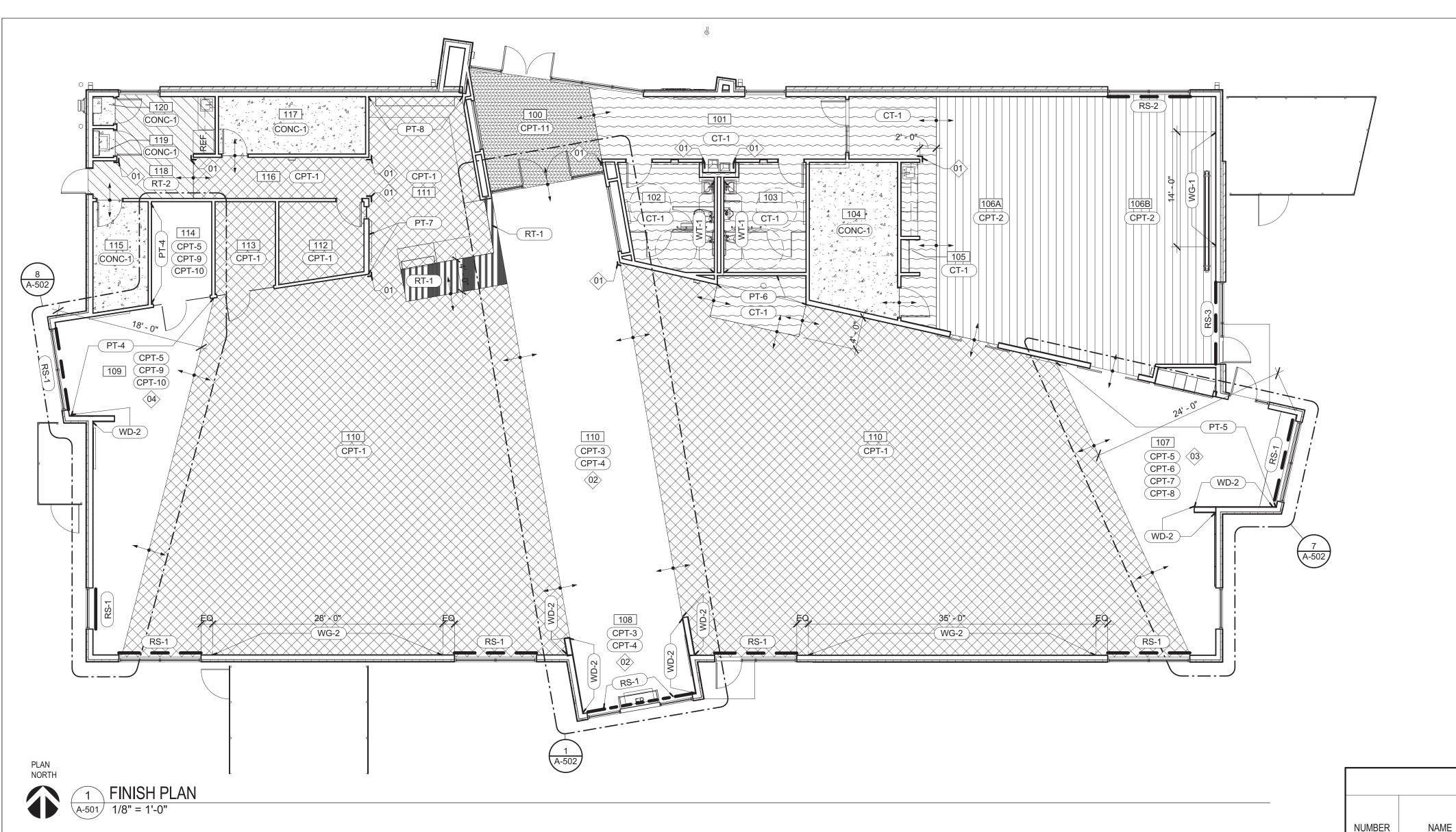
No.	Date	Description
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DRAWN BY: SC/SH

PROJECT NUMBER: 16-1161.04

SHEET TITLE: ENLARGED CEILING PLANS





**GENERAL NOTES - FINISH PLAN** 

Keynote

Number

REFER TO FINISH PLAN GENERAL NOTES ON SHEET A-001.

PATTERN LAYOUT.

LAYOUT.

CEILING

FINISH

ACT-1

ACT-1

GB-1

N/A

GB-1

**REMARKS** 

GB-1 NO TB-1 ON WET WALL, REF ELEVATION

ACT-1 SOFFIT AT COUNTER TO BE GB-1

NO TB-1 ON WET WALL, REF ELEVATION

**BREAK ROOM** 

BOOK DROP

JANITORS CLOSET

WEST

WALL

PT-1

PT-1

PT-1

PT-1/WT-1

PT-1

PT-1

PT-1

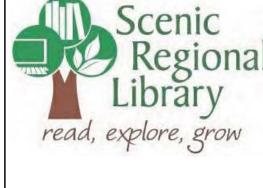
KEYED NOTES - FINISH PLAN

Description

SEE SHEET A-502 FOR PATTERN LAYOUT COMBINATION OF CPT-5, CPT-6, CPT-7 AND CPT-8 THIS AREA, SEE SHEET A-502 FOR

COMBINATION OF CPT-5. CPT-9 AND CPT-10

THIS AREA, SEE SHEET A-502 FOR PATTERN



PROVIDE CORNER GUARD THIS LOCATION, SEE COMBINATION OF CPT-3 AND CPT-4 THIS AREA,

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No. Date

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Description

06/13/17 ISSUED FOR RE-BID

DRAWN BY: SC/SH

PROJECT NUMBER: **16-1161.04** 

SHEET TITLE: FINISH PLAN/LEGEND

GL-2 DESCRIPTION: 1/4" CLEAR TEMPERED GLASS

DISC: 1/2" GYPSUM BOARD

CUT: PLAIN-SLICED VENEER

FINISH: MATCH VT INDUSTRIES

LOOCATION: ALL INTERIOR DOORS

LOOCATION: CEILING AND WALLS

LOCATION: GENERAL WALL COLOR

LOCATION: GENERAL CLG. COLOR

LOCATION: DOOR FRAME COLOR

LOCATION: ACCENT PAINT TEENS

LOCATION: ACCENT PAINT CHILDRENS

LOCATION: ACCENT PAINT CIRCULATION

LOCATION: ACCENT PAINT COFFEE

MATCH: SLIP-MATCHED

COLOR: PT-2

SPECIES: RED OAK

CHOCOLATE, CH15

SPECIES: WHITE MAPLE

FINISH: CLEAR SATIN

COLOR: TBD

COLOR: TBD

PT-3 MNF: SHERWIN-WILLIAMS

COLOR: TBD

COLOR: TBD

PT-5 MNF: SHERWIN-WILLIAMS

COLOR: TBD

COLOR: TBD

COLOR: TBD

CUT: PLAIN-SLICED VENEER

MNF: SHERWIN-WILLIAMS

MNF: SHERWIN-WILLIAMS

MNF: SHERWIN-WILLIAMS

MNF: SHERWIN-WILLIAMS

MNF: SHERWIN-WILLIAMS

(WD-1)

(WD-2)

PT-1

PT-4

DESCRIPTION: 1/2" CLEAR TEMPERED GLASS DESCRIPTION: 1" IG UNIT, SPANDREL GLASS MNF: PPG, STYLE: SOLARBAN 60 + OPACI-COAT-300 COLOR: CLEAR + CLEAR GLASS, MEDIUM GRAY SURFACE: MEDIUM GRAY, SURFACE #3

(ACT-1) DISC: 2 X 2 ACOUSTICAL CEILING TILE MNF: ARMSTRONG STYLE: ULTIMA BEVELED TEGULAR #1942 SIZE: 24" X 24" COLOR: WHITE GRID 9/16"

COFFEE, FIREPLACE VERTICAL SURFACES. ( PL-2 ) MNF: LAMIN-ART

(SS-1)

(PT-9)

COLOR: 3057-VT FINISH: VELVA-TEX LOCATION: WORK RM./ MTG. RM./BREAK RM. VERTICAL SURFACES.

MNF: SHERWIN-WILLIAMS

LOCATION: EXT. METAL DOORS

DESCRIPTION: 4" VINYL BASE

SIZE: 4" HIGH STRAIGHT BASE

COLOR: 5886-43 SORREL CHERRY

LOCATION: CIRCULATION DESK/

COLOR: 63 BURNT UMBER

COLOR: TBD

MNF: JOHNSONITE

MNF: FORMICA

FINISH; ARTISAN

( PL-3 ) MNF: FORMICA COLOR: 961-58 FOG FINISH: MATTE LOCATION: WORK RM./BREAK RM. TOPS

( PL-4 ) MNF: FORMICA COLOR: M2178 BRUSHED STAINLESS STEEL LOCATION: CIRCULATION DESK AND FIREPLACE BASE

( PL-5 ) MNF: FORMICA COLOR: STOP RED 839-58 FINISH: MATTE FINISH

MNF: AVONITE

( PL-6 ) MNF: FORMICA COLOR: VIBRANT GREEN 6901-58 FINISH: MATTE FINISH

( PL-7 ) MNF: FORMICA COLOR: SPECTRUM BLUE 851-AN FINISH: INFINITI FINISH

> COLOR: NORDIC F1-9119 LOCATION: CIRCULATION COUNTER INSET, MTG. RM./COFFEE TOPS

MNF: DOUG MOCKETT & COMPANY, INC. STYLE: DP105/3 SERIES SQUARE PULL COLOR: STAINLESS STEEL

DESCRIPTION: VINYL WALL GRAPHIC

AZURLIENE@ARC-COM.COM MNF: SWF CONTRACT

MNF: SWF CONTRACT

SIZE: (1) 28'-0" WIDE BY 8'-0" TALL, BOT. AT 6'-0" AFF (1) 35'-0" WIDE BY 8'-0" TALL, BOT. AT 6'-0" AFF. REP CONTACT: AFTEN ZURLIENE, 314-465-2257

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

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

106B	MEETING ROOM B	CPT-2	RB-1	PT-1	PT-1	PT-1/WG-	N/A	ACT-1	WG-1 ON EAST	WALL, REFER TO FINISH PLAN
107	CHILDREN AREA	CPT-5,6,7,8	RB-1	PT-5	WD-2	PT-5	N/A	WD-2/ACT-1	ACT-1 MAIN UF	PPER CEILING
108	ADULT AREA	CPT-3,CPT-4	RB-1	N/A	PT-1	WD-2	WD-2	WD-2/ACT-1	ACT-1 MAIN UF	PPER CEILING
109	TEEN AREA	CPT-5	RB-1	PT-4	WD-2	N/A	PT-1	WD-2/ACT-1	ACT-1 MAIN UP	PPER CEILING
110	CIRCULATION	CPT-1	RB-1	PT-1/PT-6	PT-1/WG-2	PT-1	PT-1	ACT-1	WG-2 ON SOUT	TH WALL, REFER TO FINISH PLAN
111	WORK ROOM	CPT-1	RB-1	PT-8	N/A	PT-1	PT-1/PT-7	ACT-1		
112	OFFICE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		
113	STUDY	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		
114	STUDY	CPT-5,9,10	RB-1	PT-1	PT-1	PT-1	PT-4	ACT-1		
115	MECH/ELEC	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	N/A		
116	CORRIDOR	CPT-1	RB-1	PT-1	PT-1	N/A	N/A	ACT-1		
117	STORAGE	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	N/A		
118	BREAK ROOM	RT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		
119	JANITORS CLOSET	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	N/A		
120	BOOK DROP	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	N/A		
DESCRIPTION: CUSTOM DIGITAL WALL IMAGE (FCP-1)			FCP-1	DESCRIPTION: FIBER CEMENT SIDING			ROOM SCHEDULE			
MNF: ARC-COM					MNF: NICHIHA USA, INC.				NUMBER	NAME
TYPE II \	VINYL, CUSTOM IMAGE T	O BE DETERMIN	ED.		STYLE: ARG	CHITECTUR	AL BLOCK S	SERIES		
SIZE: (1) 28'-0" WIDE BY 8'-0" TALL. BOT. AT 6'-0" AFF.					SIZE: 1818 \	WITH 1/3 OF	FSET LAYO	DUT	100	VECTIDI II E

**ROOM FINISH SCHEDULE** 

WALL

N/A

PT-1

PT-1

PT-1

N/A

N/A

PT-1 | PT-1/WT-1 |

WALLS

NORTH | SOUTH | EAST

WALL

PT-1

PT-1

PT-1

PT-1

PT-1

WALL

PT-1

PT-1

PT-1

PT-1

PT-1

PT-1

(FCP-2)

FLOOR FINISH BASE

RB-1

TB-1

TB-1

TB-1

RB-1

TB-1

RB-1

CPT-11

CT-1

CT-1

CT-1

CONC-1

CT-1

CPT-2

WG-2

VESTIBULE

CORRIDOR

WOMEN

STORAGE

MEETING ROOM A

COATS

MEN

DESCRIPTION: SINGLE MANUAL ROLLER SHADE

DESCRIPTION: SINGLE MANUAL BLACK-OUT SHADE OPENNESS: FULL BLACK-OUT, BLACK DUPLEX R6039

100	VESTIBULE
101	CORRIDOR
102	WOMEN
103	MEN
104	STORAGE
105	COATS
106A	MEETING ROOM A
106B	MEETING ROOM B
107	CHILDREN AREA
108	ADULT AREA
109	TEEN AREA
110	CIRCULATION
111	WORK ROOM
112	OFFICE
113	STUDY
114	STUDY
115	MECH/ELEC
116	CORRIDOR
117	STORAGE
	101 102 103 104 105 106A 106B 107 108 109 110 111 112 113 114 115 116

FINISH LEGEND NOTE; NOT ALL FINISHES LISTED BELOW APPLY TO THIS BRANCH, REFER TO DRAWINGS FOR ALL FINISH LOCATIONS.							
CPT-1	DESC: MODULAR CARPET TILE (18X36) MNF: TANDUS CENTIVA STYLE: EVANESCE 04617 COLOR: SPACE GREY 73702 INSTALLATION: HERRINGBONE SIZE: 18" X 36"	CPT-9	DESC: MODULAR CARPET TILE (24X24) MNF: SHAW CONTRACT GROUP STYLE: COLOR FORM COLOR: PUZZLE 81991 INSTALLATION: 1/4 TURN SIZE: 24" X 24"	RT-2	DESCRIPTION: LU MNF: SHAW HARI STYLE: GRAIN+PI LOCATION: BREA DESCRIPTION: 33 MNF: TRENDS IN		
CPT-2	DESC: MODULAR CARPET TILE (24X24) MNF: TANDUS CENTIVA STYLE: EVANESCE 04617 COLOR: SPACE GREY 73702 INSTALLATION: VERTICAL ASHLAR SIZE: 24" X 24"	CPT-10	DESC: MODULAR CARPET TILE (24X24) MNF: SHAW CONTRACT GROUP STYLE: VIEW COLOR: SPACE 78500 INSTALLATION: 1/4 TURN SIZE: 24" X 24"	RB-1	STYLE: ERAMOS/ SIZE: 3" X 24" GROOR LATICRETE 90 DESCRIPTION: 4" MNF: JOHNSONIT STYLE: 4" STRAM		
CPT-3	DESC: MODULAR CARPET TILE (24X24) MNF: TANDUS CENTIVA 3A STYLE: EVANESCE 04617 COLOR: OPEN OCEAN 73706 INSTALLATION: 1/4 TURN SIZE: 24" X 24"	(CPT-11)	DESC: MODULAR CARPET TILE (24X24) MNF: TANDUS CENTIVA STYLE: ABRESIVE ACTION 02578 COLOR: CHARCOAL 19100 INSTALLATION: MONOLITHIC SIZE: 24" X 24"	FB-1A	DESCRIPTION: CI MNF: ARC-COM, S NUMBER: AC-613 DESCRIPTION: CI MNF: ARC-COM, S NUMBER: AC-613		
CPT-4	DESC: MODULAR CARPET TILE (24X24) MNF: TANDUS CENTIVA 3B STYLE: ROCK SOLID II COLOR: BLUE GRANITE 20421 INSTALLATION: 1/4 TURN SIZE: 24" X 24"	CPT-12	DESC: MODULAR CARPET TILE (24X24) MNF: SHAW CONTRACT GROUP STYLE: VIEW COLOR: LANDSCAPE 78675 INSTALLATION: 1/4 TURN SIZE: 24" X 24"	FB-1D	DESCRIPTION: CI MNF: ARC-COM, S NUMBER: AC-613 DESCRIPTION: CI MNF: ARC-COM, S		
CPT-5	DESC: MODULAR CARPET TILE (24X24) MNF: SHAW CONTRACT GROUP STYLE: VIEW COLOR: GAZE 78530 INSTALLATION: 1/4 TURN	CPT-13	DESC: MODULAR CARPET TILE (24X24) MNF: SHAW CONTRACT GROUP STYLE: VIEW COLOR: EMBER 81870 INSTALLATION: 1/4 TURN	FB-1E	NUMBER: AC-613 DESCRIPTION: CI MNF: ARC-COM, S NUMBER: AC-613		
CPT-6	SIZE: 24" X 24"  DESC: MODULAR CARPET TILE (24X24)  MNF: SHAW CONTRACT GROUP  STYLE: COLOR FORM  COLOR: IMAGINE 81375  INSTALLATION: 1/4 TURN	(CPT-14)	SIZE: 24" X 24"  DESC: MODULAR CARPET TILE (24X24)  MNF: SHAW CONTRACT GROUP  STYLE: VIEW  COLOR: PLACE 78210  INSTALLATION: 1/4 TURN	WI-I)	DESCRIPTION: W MNF: ISC SURFAG SERIES: SOHO S COLOR: TAUPE G GROUT: MAPEI 02 LIGHT PEWTER. LOCATION: REST		
CPT-7	SIZE: 24" X 24"  DESC: MODULAR CARPET TILE (24X24)	CT-1	SIZE: 24" X 24"  DESCRIPTION: 6X24 PORCELAIN TILE	WT-2	DESCRIPTION: 6X MNF: TRENDS IN STYLE: ERAMOSA		

DESC. MODULAR CARPET TILE (24X24) MNF: SHAW CONTRACT GROUP STYLE: VIEW COLOR: OVERLOOK 78436 INSTALLATION: 1/4 TURN SIZE: 24" X 24" (CONC-1) CPT-8 DESC: MODULAR CARPET TILE (24X24) MNF: SHAW CONTRACT GROUP

STYLE: VIEW

SIZE: 24" X 24"

COLOR: GLIMPSE 78855

**INSTALLATION: 1/4 TURN** 

RT-2 DESCRIPTION: LUXURY VINYL TILE MODULAR CARPET TILE (24X24) HAW CONTRACT GROUP COLOR FORM : PUZZLE 81991 LATION: 1/4 TURN

IPTION: 6X24 PORCELAIN TILE MNF: TRENDS IN TILE, EURO COLLECTION STYLE: ERAMOSA COLOR:SILVER SIZE: 6" X 24" INSTALLATION: 1/3 OFFSET GROUT: MAPEI 02 PEWTER OR LATICRETE 90 LIGHT PEWTER.

DESCRIPTION: SEALED CONCRETE COLOR: CLEAR MATTE FINISH DESCRIPTION: LUXURY VINYL TILE

MNF: SHAW HARD SURFACE DESCRIPTION: 1" IG UNIT, LOW-E INSUL. GLASS STYLE: GRAIN+PIGMENT COLOR: GREEN 65326 (GL-1) MNF: PPG, STYLE: SOLARBAN 60 LOCATION: CIRCULATION DESK FRONT COLOR: OPTIGRAY + CLEAR

STYLE: GRAIN+PIGMENT COLOR: BONE 65515 LOCATION: BREAKROOM DESCRIPTION: 3X24 PORCELAIN TILE BASE MNF: TRENDS IN TILE, EURO COLLECTION STYLE: ERAMOSA COLOR:SILVER

SIZE: 3" X 24" GROUT: MAPEI 02 PEWTER OR LATICRETE 90 LIGHT PEWTER.

RB-1 DESCRIPTION: 4" VINYL BASE MNF: JOHNSONITE STYLE: 4" STRAIGHT BASE COLOR: 63 BURNT UMBER (FB-1A) DESCRIPTION: CHILDREN'S CUSHION

MNF: SHAW HARD SURFACE

MNF: ARC-COM, STYLE: AXIS NUMBER: AC-61346, COLOR: CHILLI #7 (FB-1B) DESCRIPTION: CHILDREN'S CUSHION MNF: ARC-COM, STYLE: AXIS NUMBER: AC-61345, COLOR: PUMPKIN #6 (FB-1C) DESCRIPTION: CHILDREN'S CUSHION

MNF: ARC-COM, STYLE: AXIS NUMBER: AC-61349, COLOR: LIME #10 (FB-1D) DESCRIPTION: CHILDREN'S CUSHION MNF: ARC-COM, STYLE: AXIS NUMBER: AC-61340, COLOR: SEAGLASS #1

(FB-1E) DESCRIPTION: CHILDREN'S CUSHION MNF: ARC-COM, STYLE: AXIS NUMBER: AC-61352, COLOR: OCEAN #13 DESCRIPTION: WALL TILE

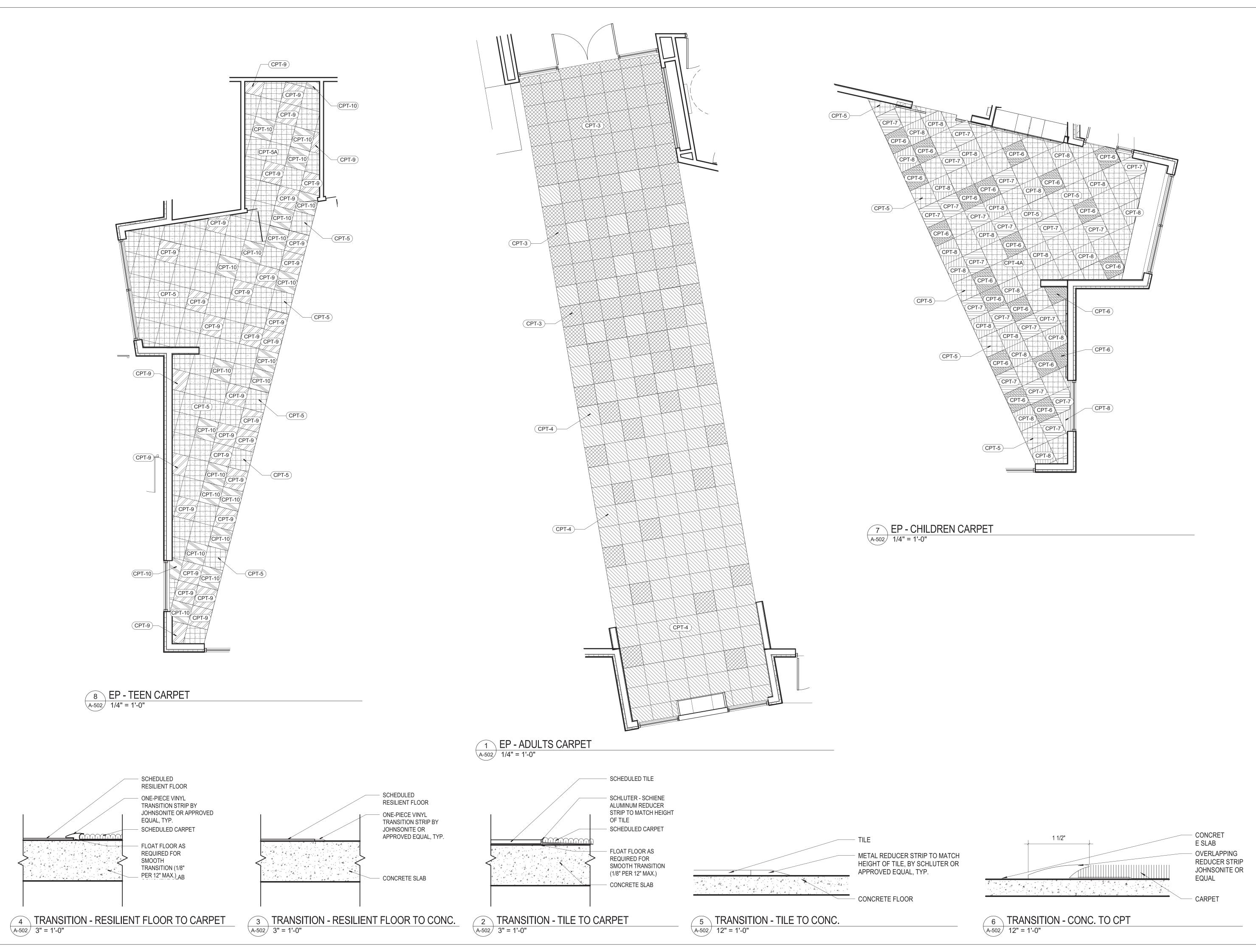
MNF: ISC SURFACES ANATOLIA TILE SERIES: SOHO SIZE: 4" X 16" COLOR: TAUPE GLOSSY GROUT: MAPEI 02 PEWTER OR LATICRETE 90 LIGHT PEWTER. LOCATION: RESTROOM WET WALLS

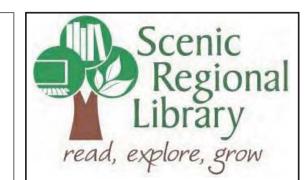
DESCRIPTION: 6X24 PORCELAIN TILE MNF: TRENDS IN TILE, EURO COLLECTION STYLE: ERAMOSA COLOR:SILVER SIZE: 6" X 24" INSTALLATION: SEE DETAILS GROUT: MAPEI 02 PEWTER OR LATICRETE 90 LIGHT PEWTER.

DESCRIPTION: WALL TILE - BULLNOSE PT-6 MNF: ISC SURFACES ANATOLIA TILE SERIES: SOHO SIZE: 4" X 8" COLOR: TAUPE GLOSSY GROUT: MAPEI 02 PEWTER OR LATICRETE 90 LIGHT PEWTER. LOCATION: RESTROOM WET WALLS @ PERIMETER EDGE

MNF: SHERWIN-WILLIAMS COLOR: TBD LOCATION: ACCENT PAINT WORK ROOM SIZE: 6 27/32 X 9/16 SQUARE PULL

SIZE: SEE PLAN AND ELEVATION





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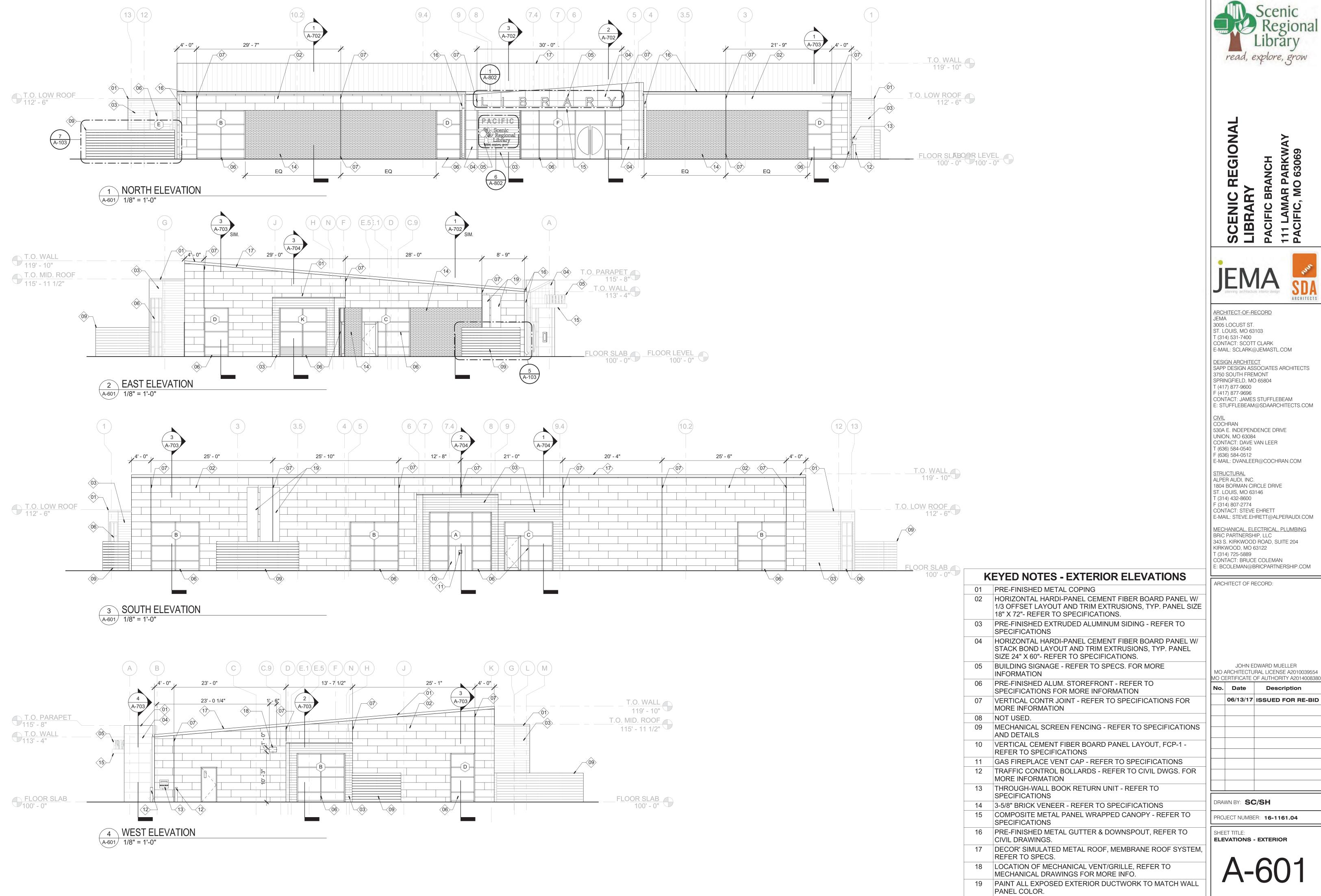
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Date 06/13/17	Description ISSUED FOR RE-BID
06/13/17	ISSUED FOR DE BIC
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DRAWN BY: SC/SH PROJECT NUMBER: 16-1161.04

SHEET TITLE: **ENLARGED FINISH PLANS** 



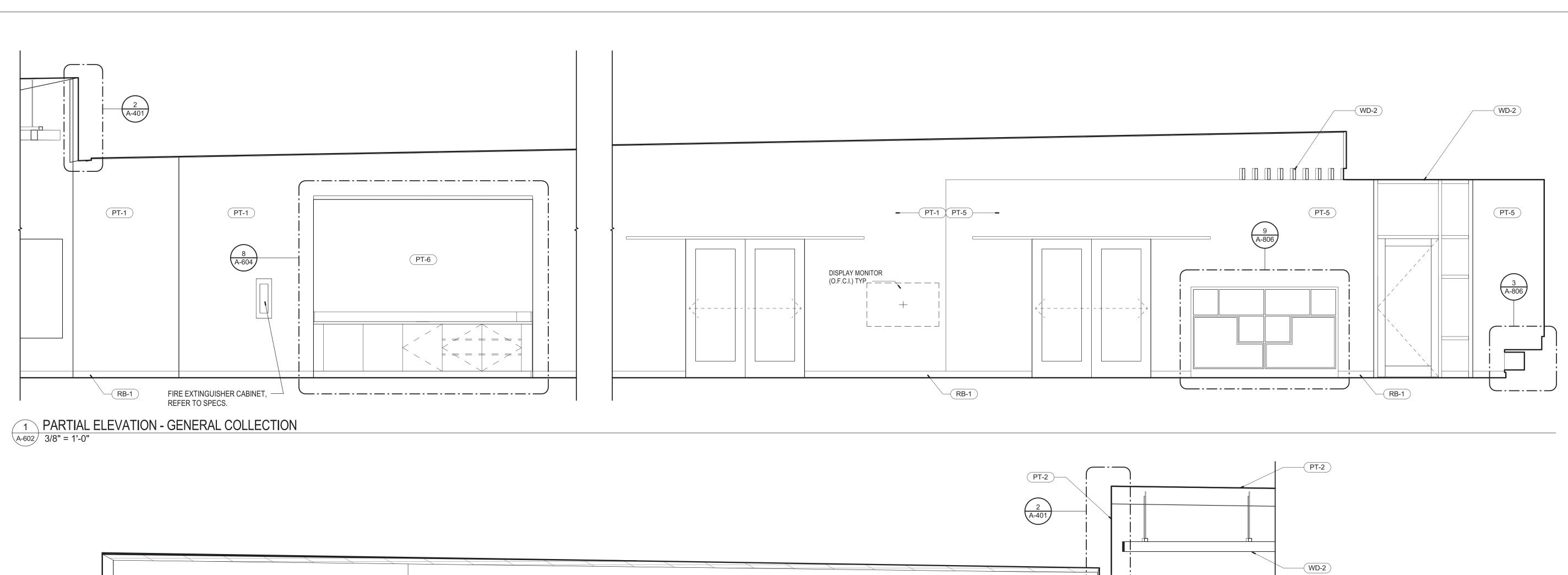
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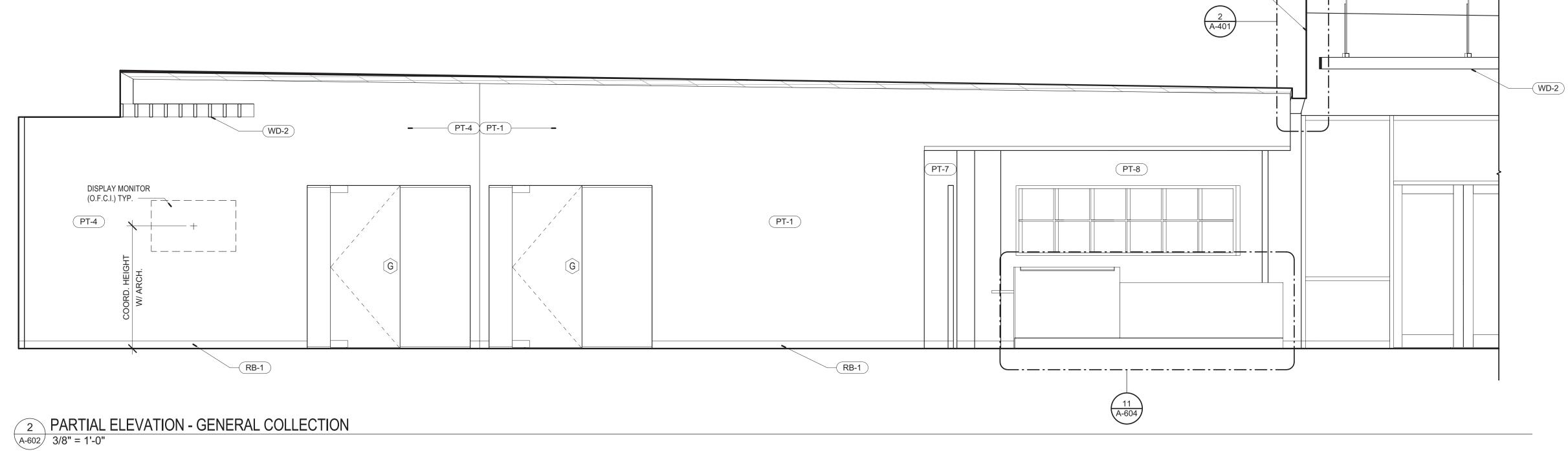
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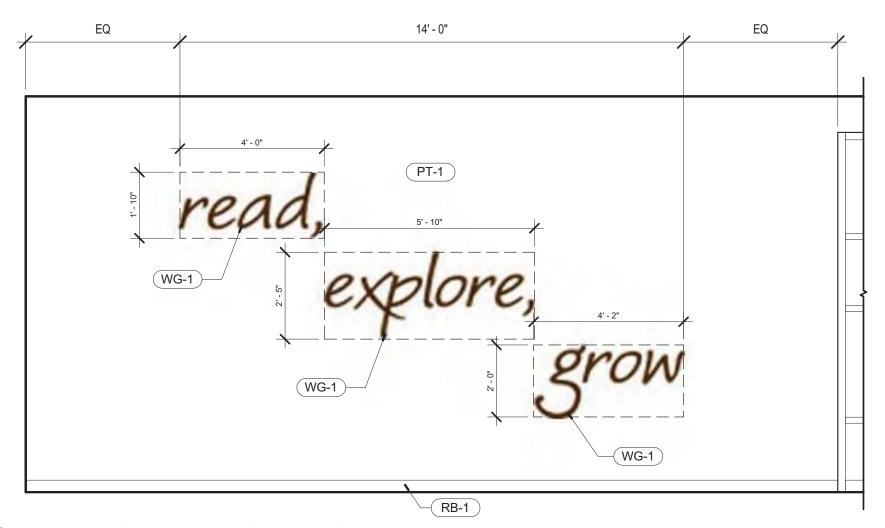
MECHANICAL, ELECTRICAL, PLUMBING

MO ARCHITECTURAL LICENSE A2010039554

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3 ELEVATION - MEETING ROOM GRAPHIC
A-602 3/8" = 1'-0"



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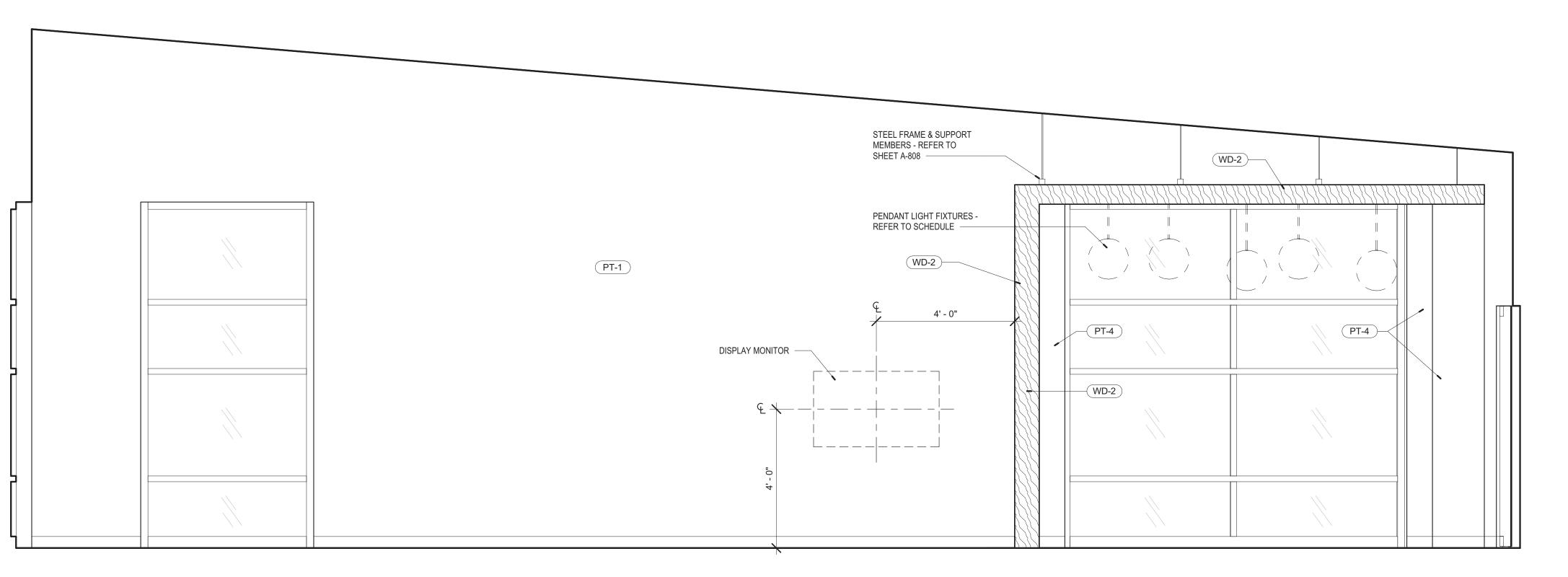
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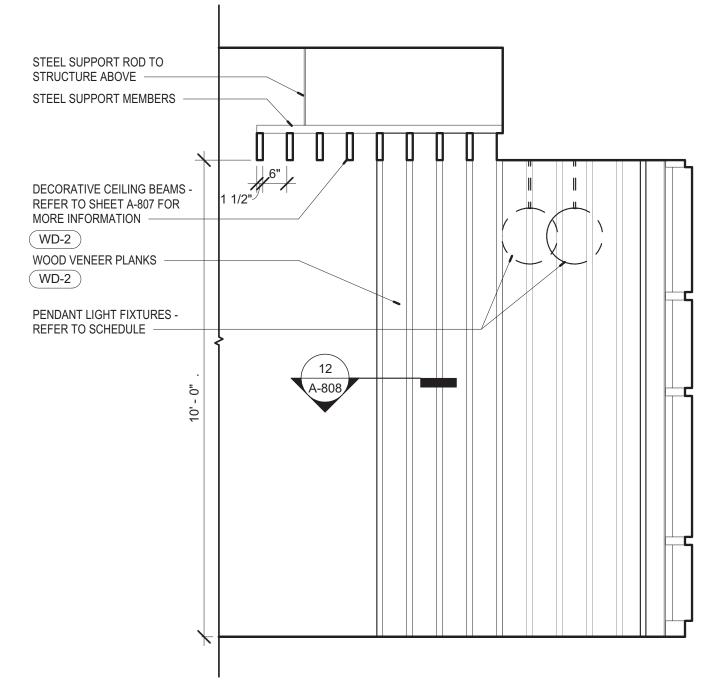
No.	Date	Description
	06/13/17	ISSUED FOR RE-BID

DRAWN BY: SC/SH

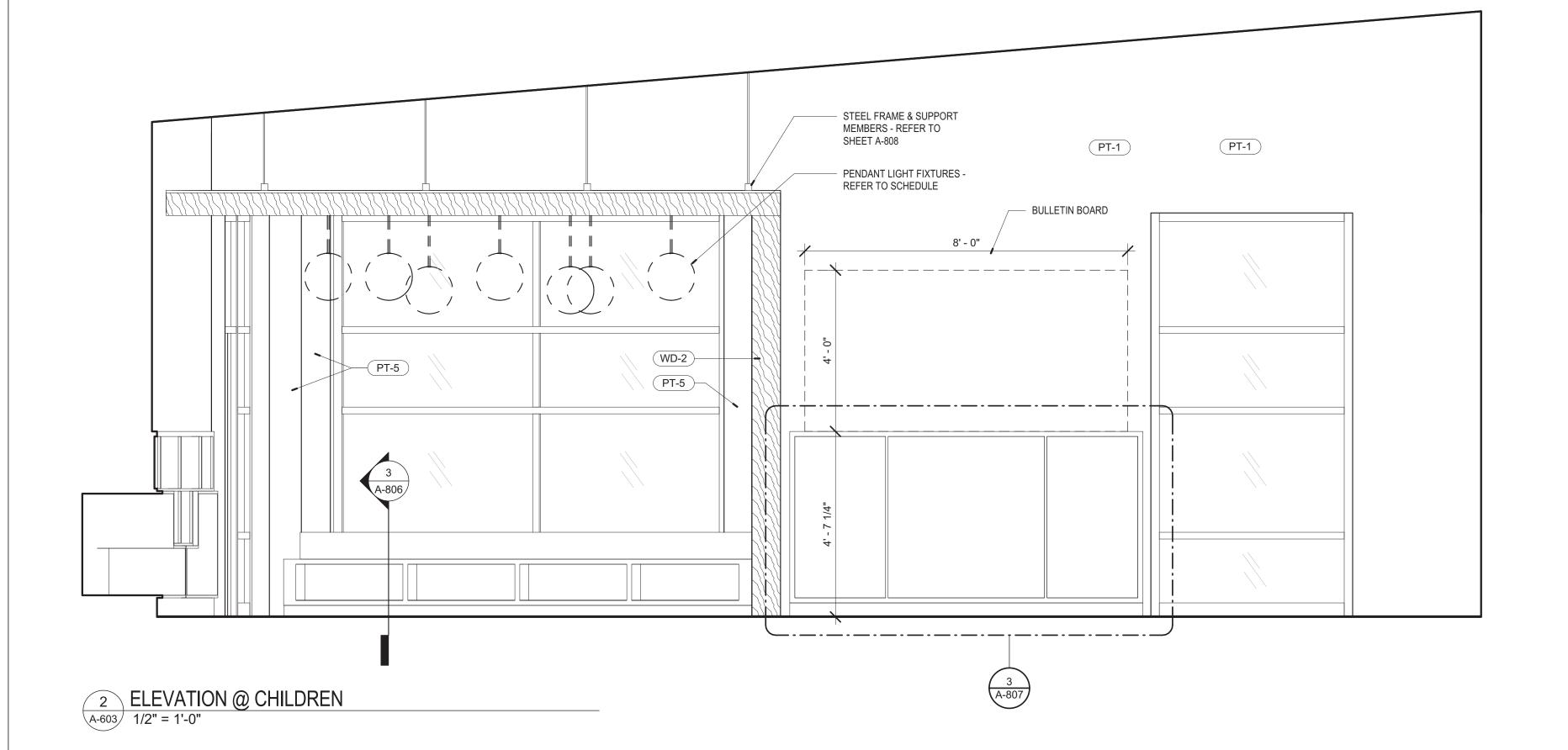
PROJECT NUMBER: 16-1161.04

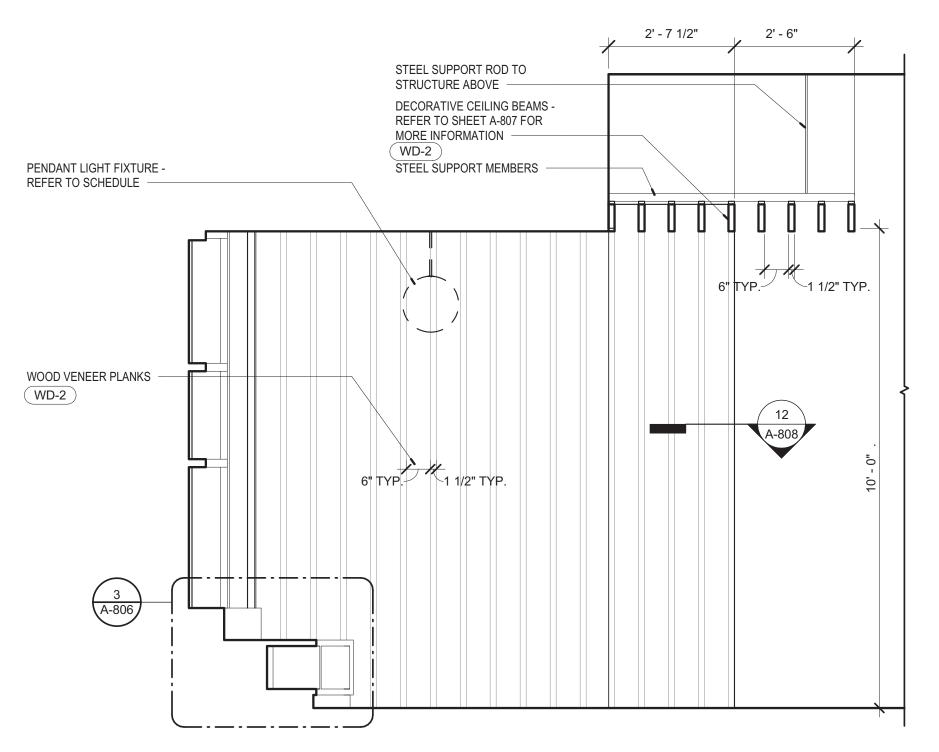
SHEET TITLE: **ELEVATIONS - INTERIOR** 





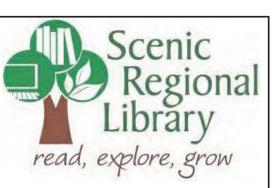
1 ELEVATION @ TEENS 1/2" = 1'-0"





3 ELEVATION @ TEENS A-603 1/2" = 1'-0"

4 ELEVATION @ CHILDREN A-603 1/2" = 1'-0"



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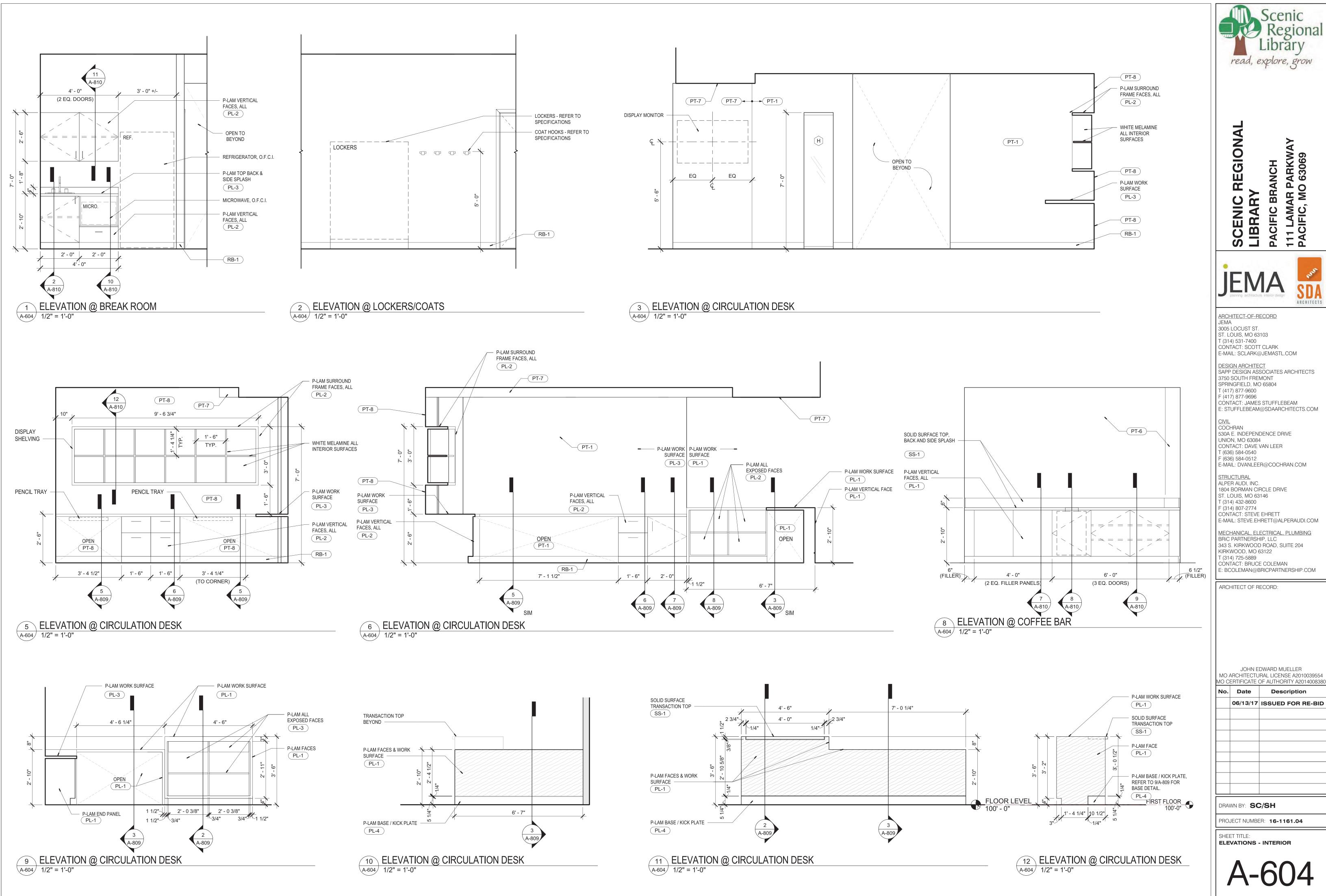
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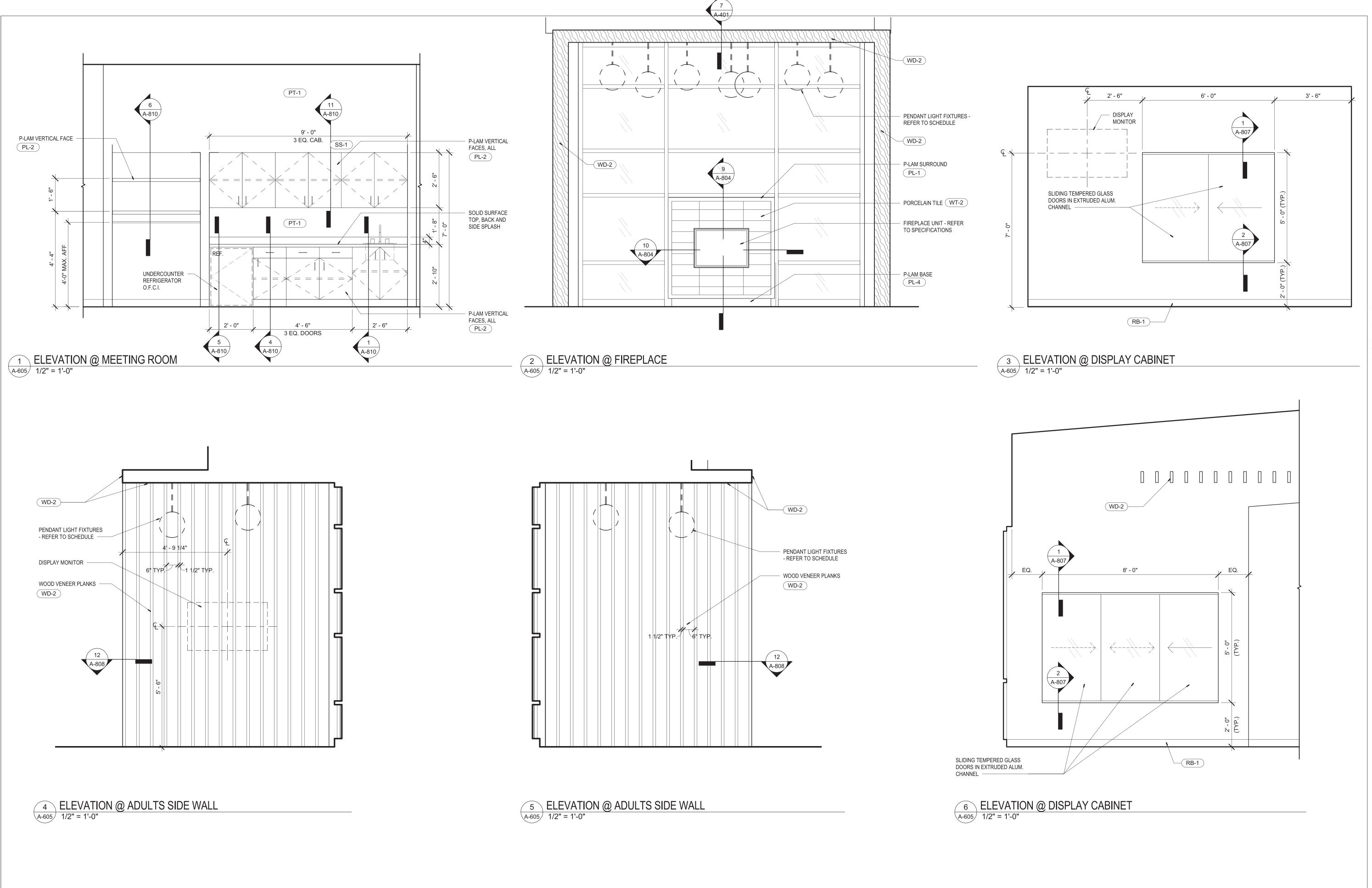
PROJECT NUMBER: 16-1161.04

SHEET TITLE:
ELEVATIONS - INTERIOR



read, explore, grow

Description



read, explore, grow

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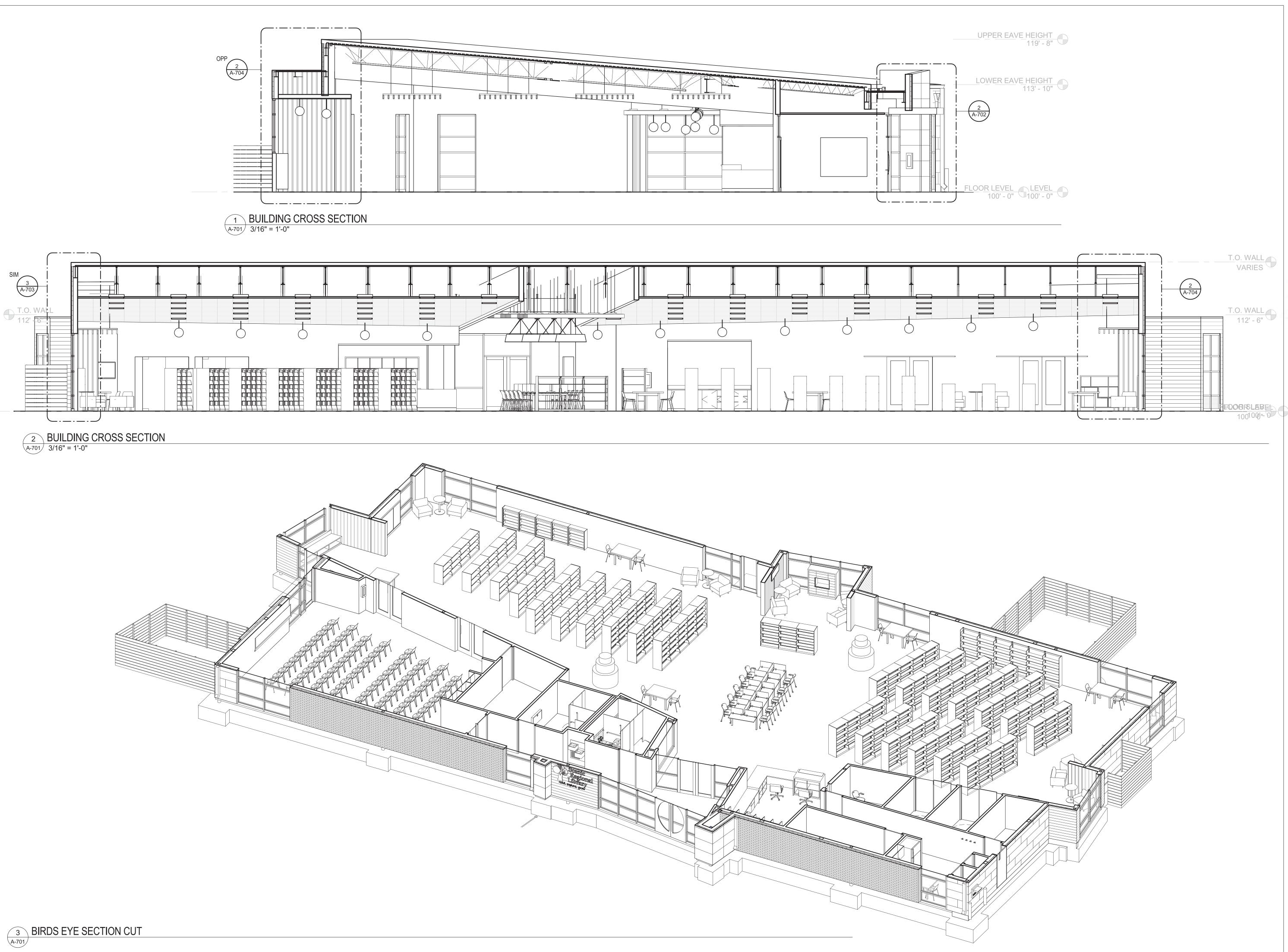
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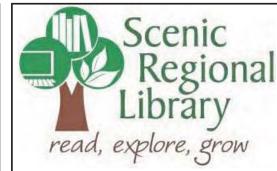
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SHEET TITLE: **ELEVATIONS - INTERIOR** 





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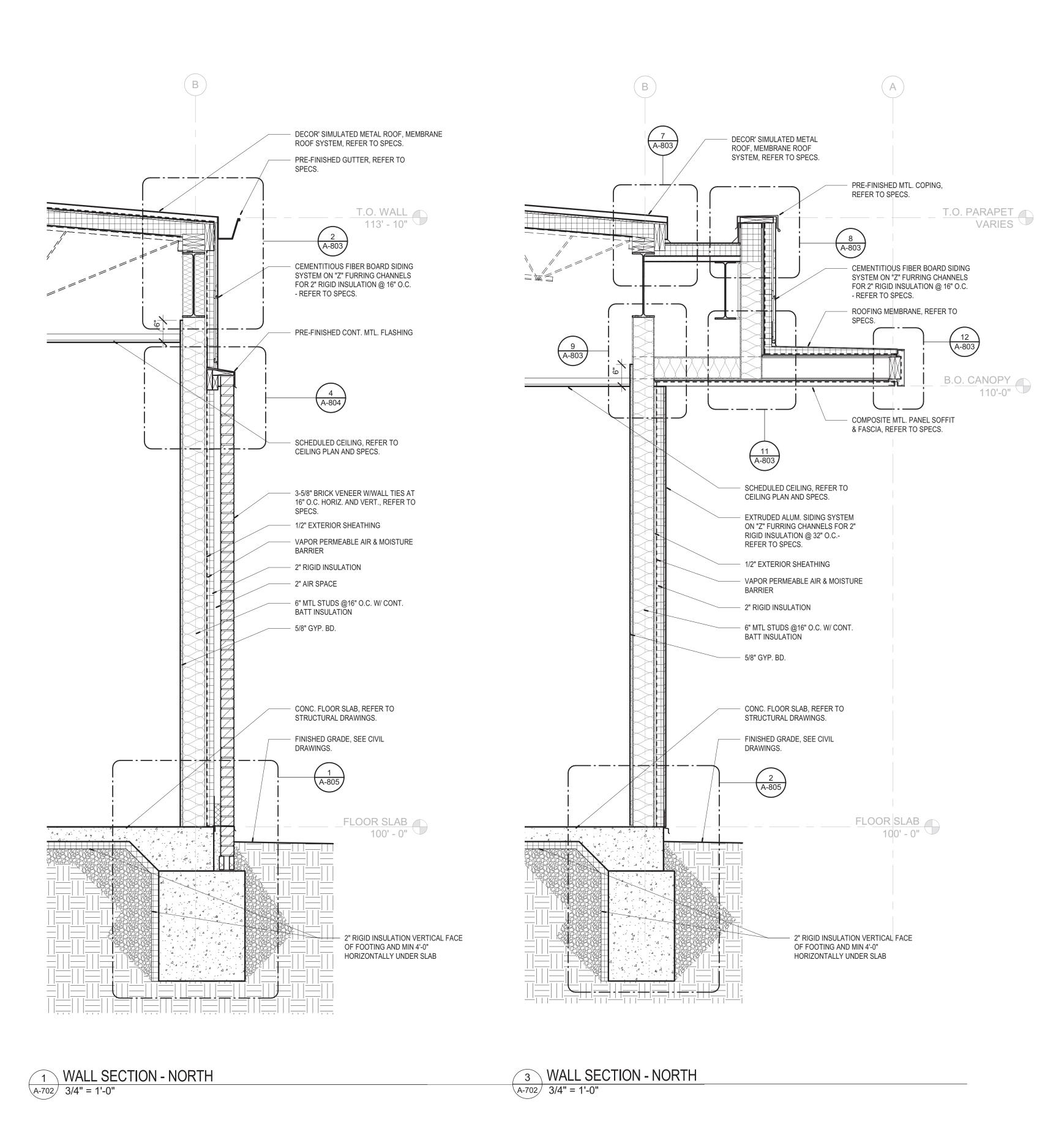
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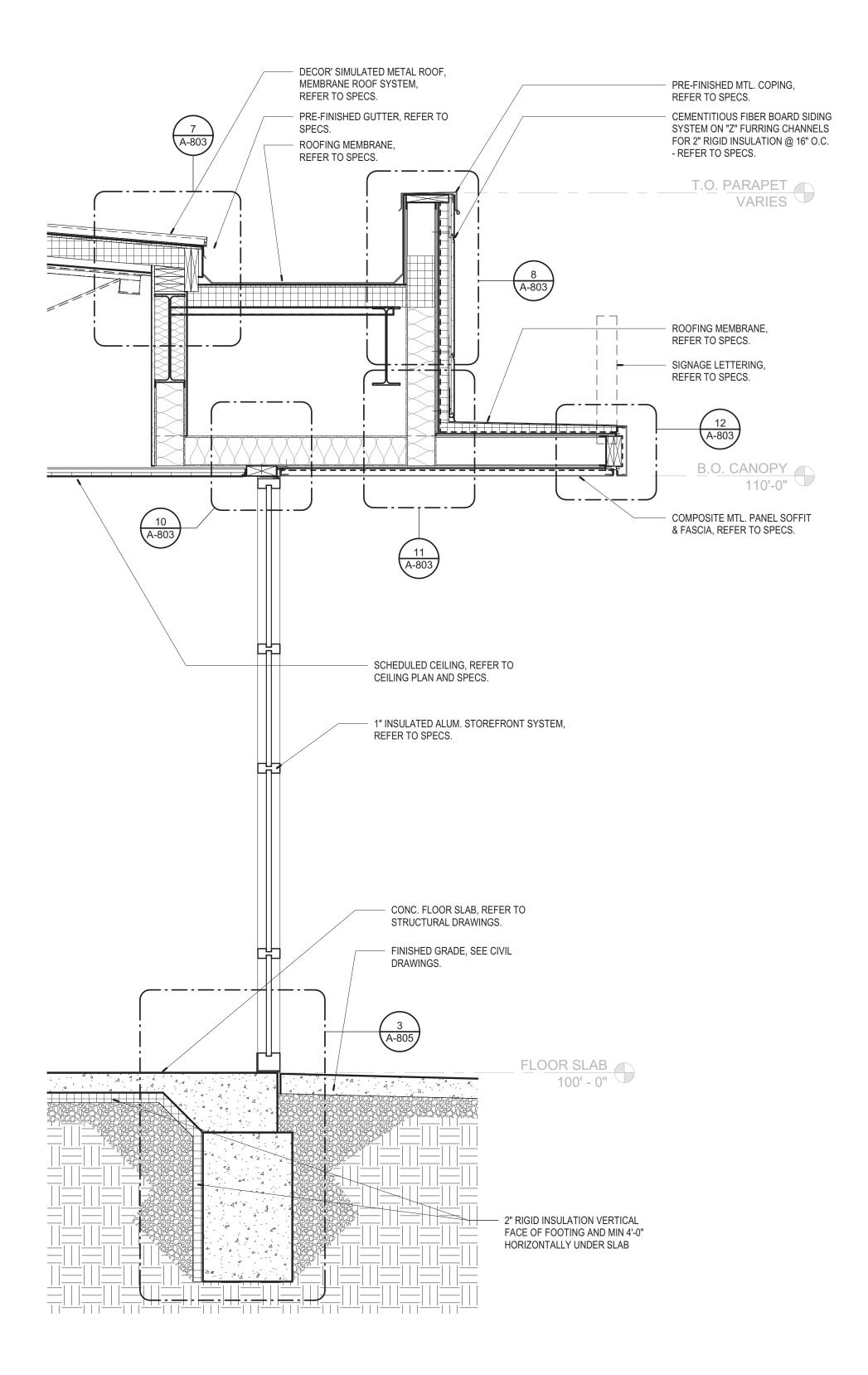
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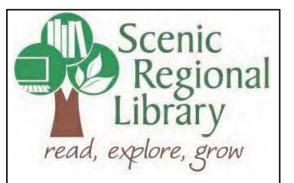
SHEET TITLE: BUILDING SECTIONS AND BIRDS EYE SECTION VIEW





2 WALL SECTION - NORTH

A-702 3/4" = 1'-0"



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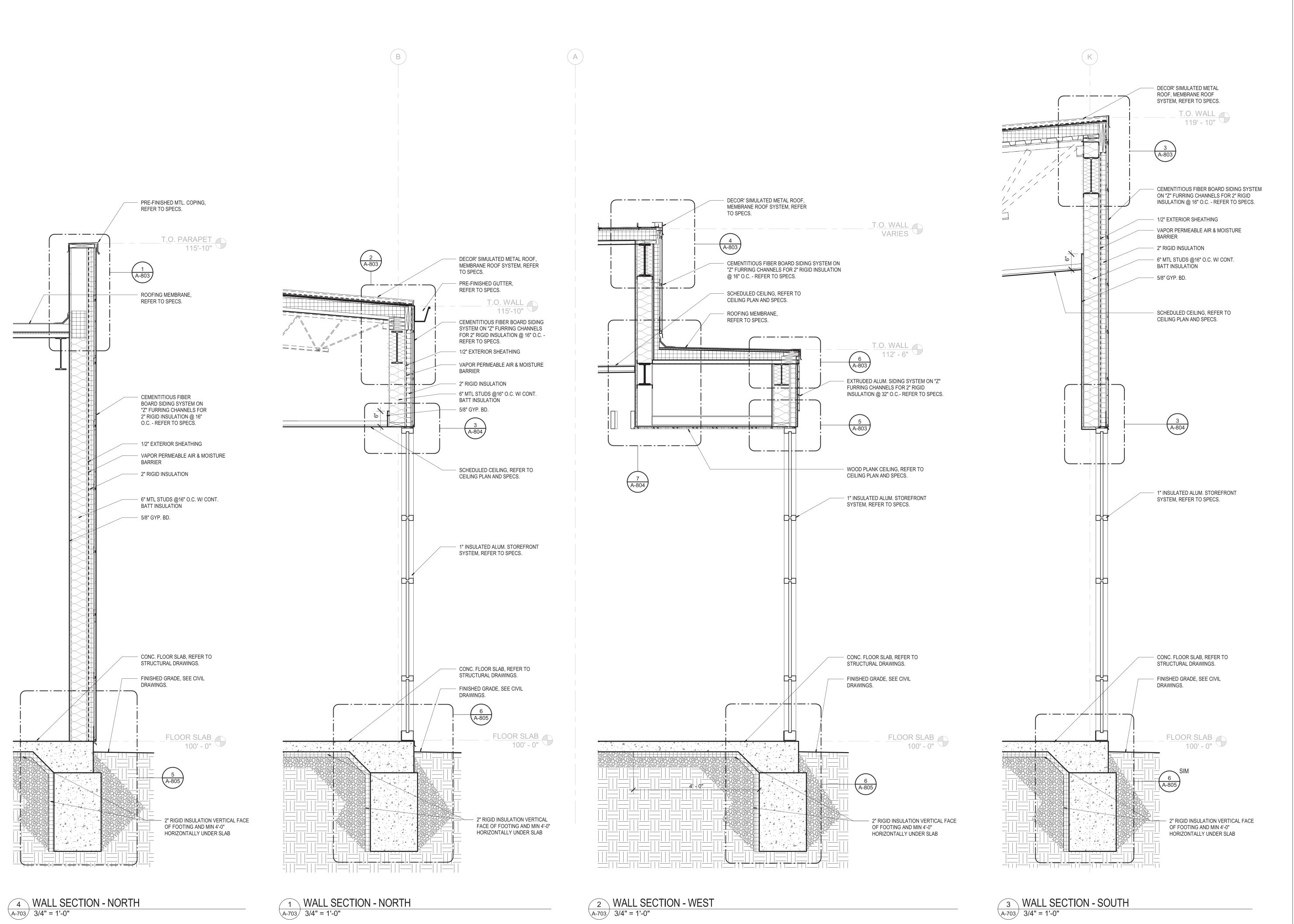
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SHEET TITLE:

SHEET TITLE: WALL SECTIONS





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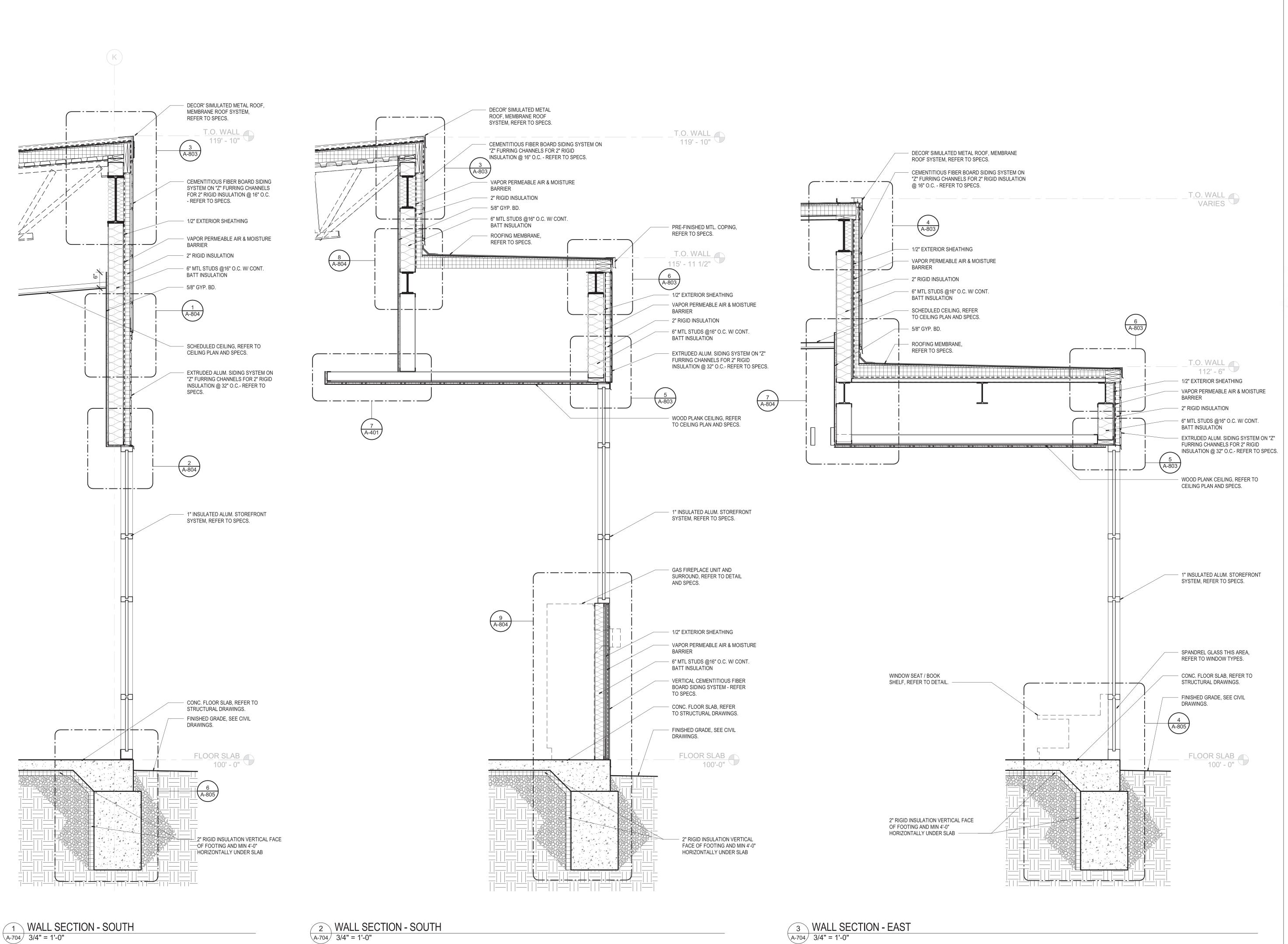
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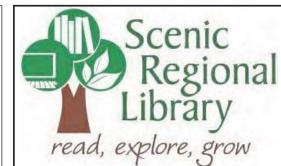
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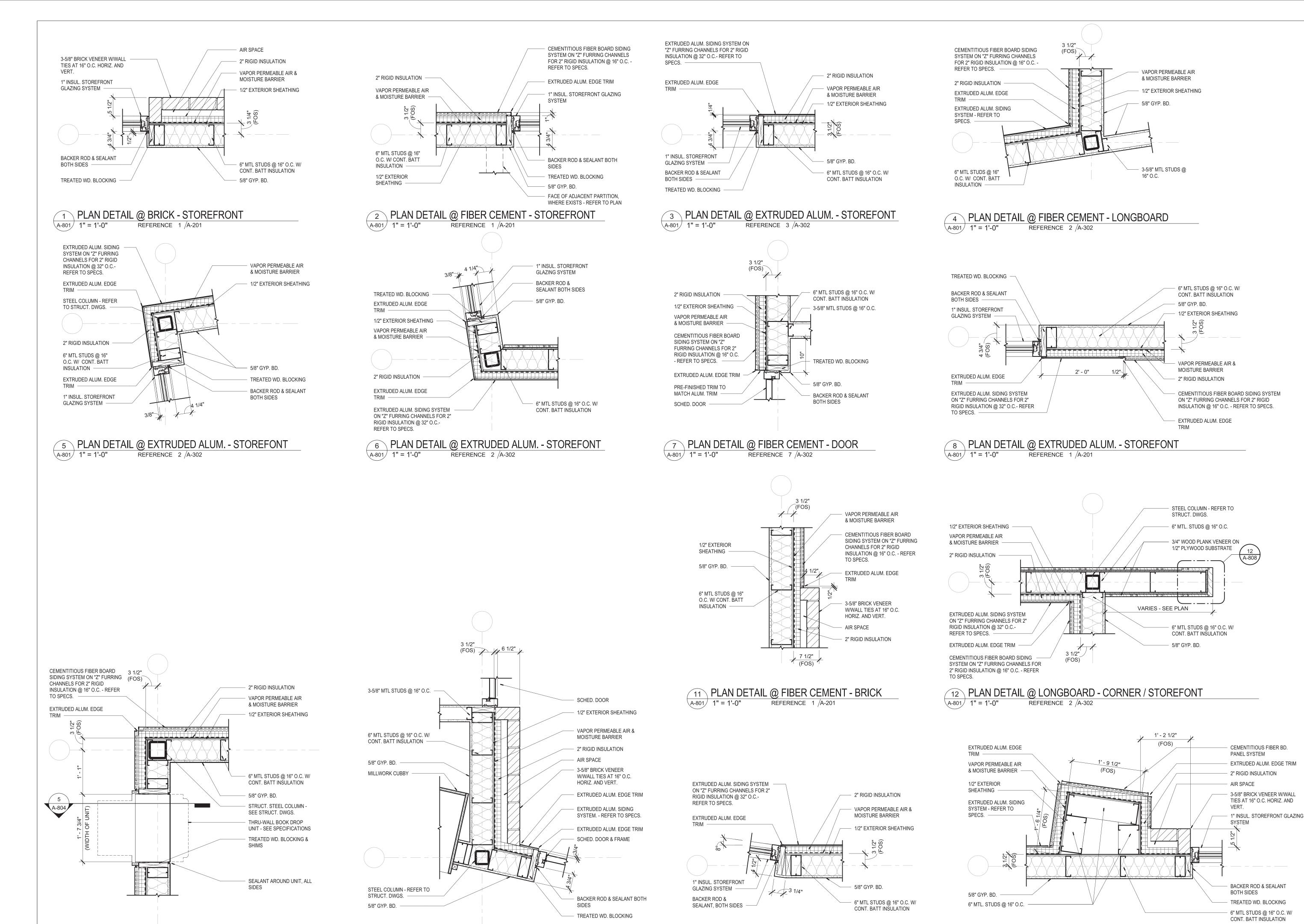
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JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

No.	Date	Description
	06/13/17	ISSUED FOR RE-BID

PROJECT NUMBER: 16-1161.04

SHEET TITLE: WALL SECTIONS



15 PLAN DETAIL @ EXTRUDED ALUM. - STOREFONT

REFERENCE 1 /A-201

16 PLAN DETAIL @ BRICK - FIBER CEMENT - STOREFRONT

REFERENCE 1 /A-201

14 PLAN DETAIL @ EXTRUDED ALUM. - STOREFONT

13 PLAN DETAIL @ BOOK DROP

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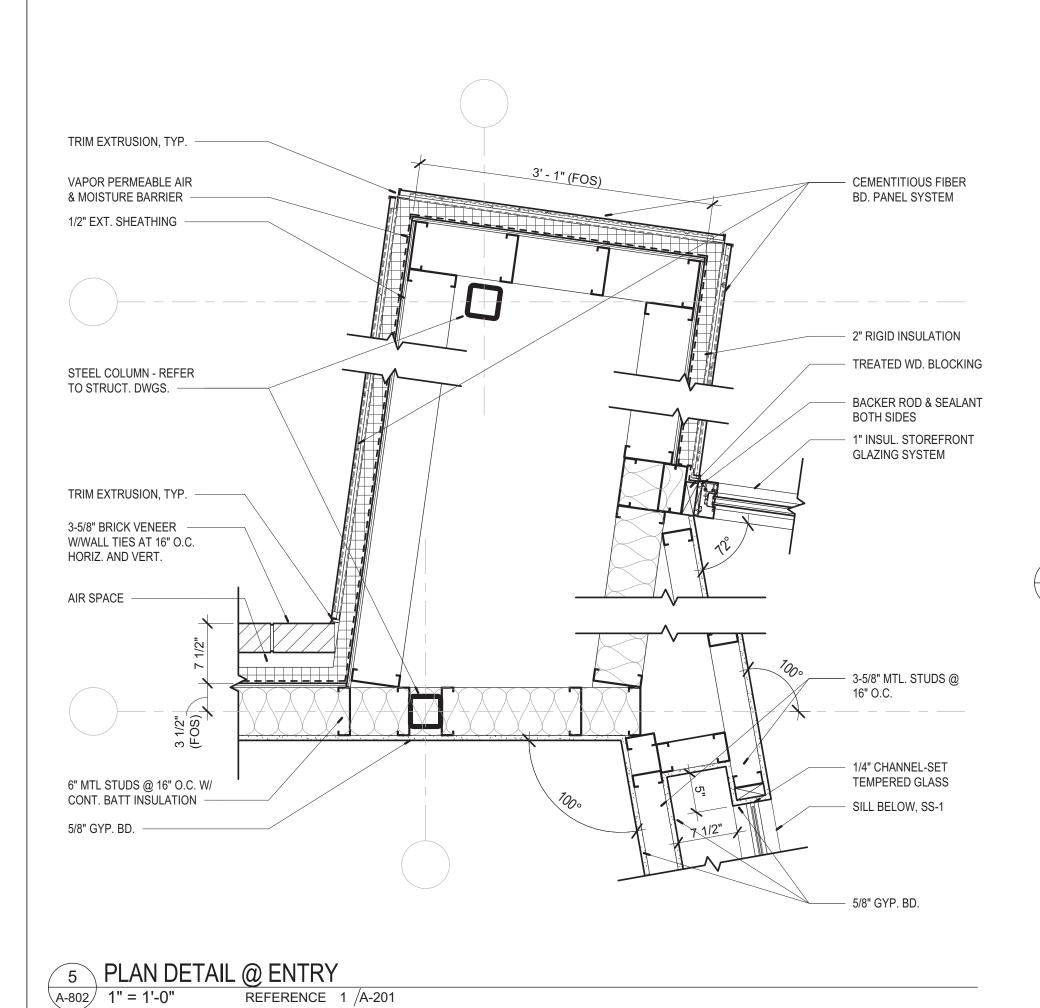
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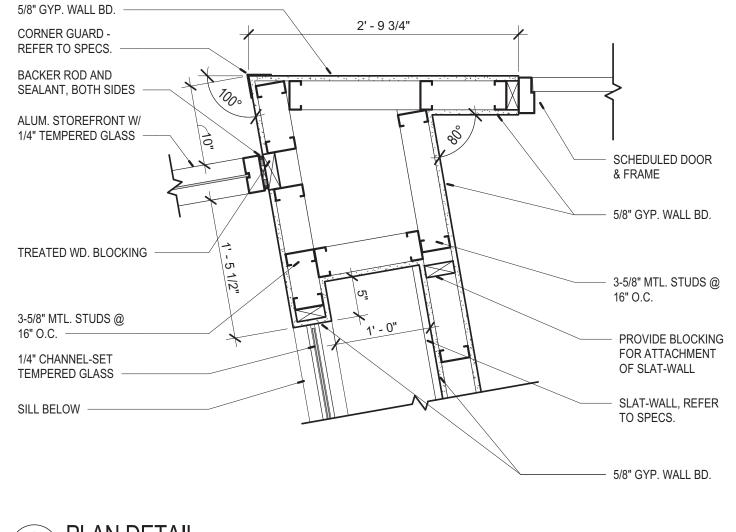
SHEET TITLE: **DETAILS - PLAN** 



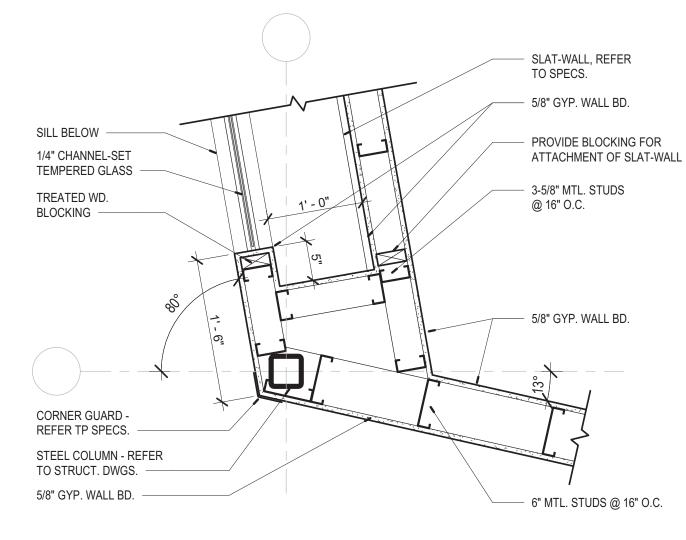
- 3-5/8" MTL. STUDS @ 16" O.C. TREATED WOOD BLOCKING BACKER ROD AND SEALANT, BOTH SIDES ALUM. STOREFRONT W/ 1/4" TEMPERED GLASS 1' - 5 1/4" CIRCULATION DESK

<sup>2</sup> PLAN DETAIL

REFERENCE 1 /A-302

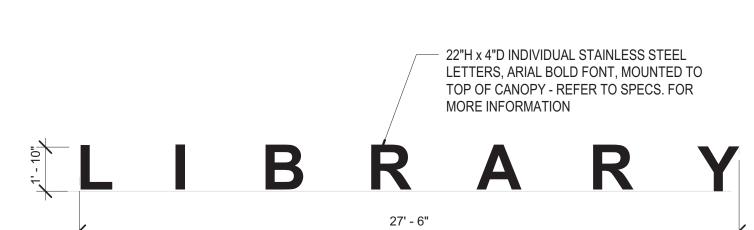


3 PLAN DETAIL REFERENCE 1 /A-301

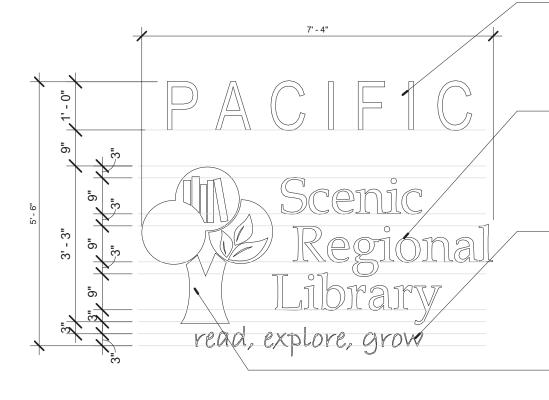


4 PLAN DETAIL

REFERENCE 1 /A-301



1 BUILDING SIGNAGE - SOUTH ELEVATION A-802 1/4" = 1'-0"



22"H x 2"D INDIVIDUAL STAINLESS STEEL LETTERS, ARIAL NARROW FONT, PIN MOUNTED TO FACE OF WALL - REFER TO SPECS. FOR MORE INFORMATION

9"H x 1"D INDIVIDUAL STAINLESS STEEL MOUNTED TO FACE OF WALL - REFER TO SPECS. FOR MORE INFORMATION

4"H x 1"D INDIVIDUAL STAINLESS STEEL LETTERS, BRADLEY ITC FONT, PIN MOUNTED TO FACE OF WALL - REFER TO SPECS. FOR MORE INFORMATION

SCENIC REGIONAL LIBRARY LOGO, PIN MOUNTED TO FACE OF WALL - REFER TO SPECS. FOR MORE INFORMATION

6 SIGNAGE - BRANCH LOGO A-802 1/2" = 1'-0"



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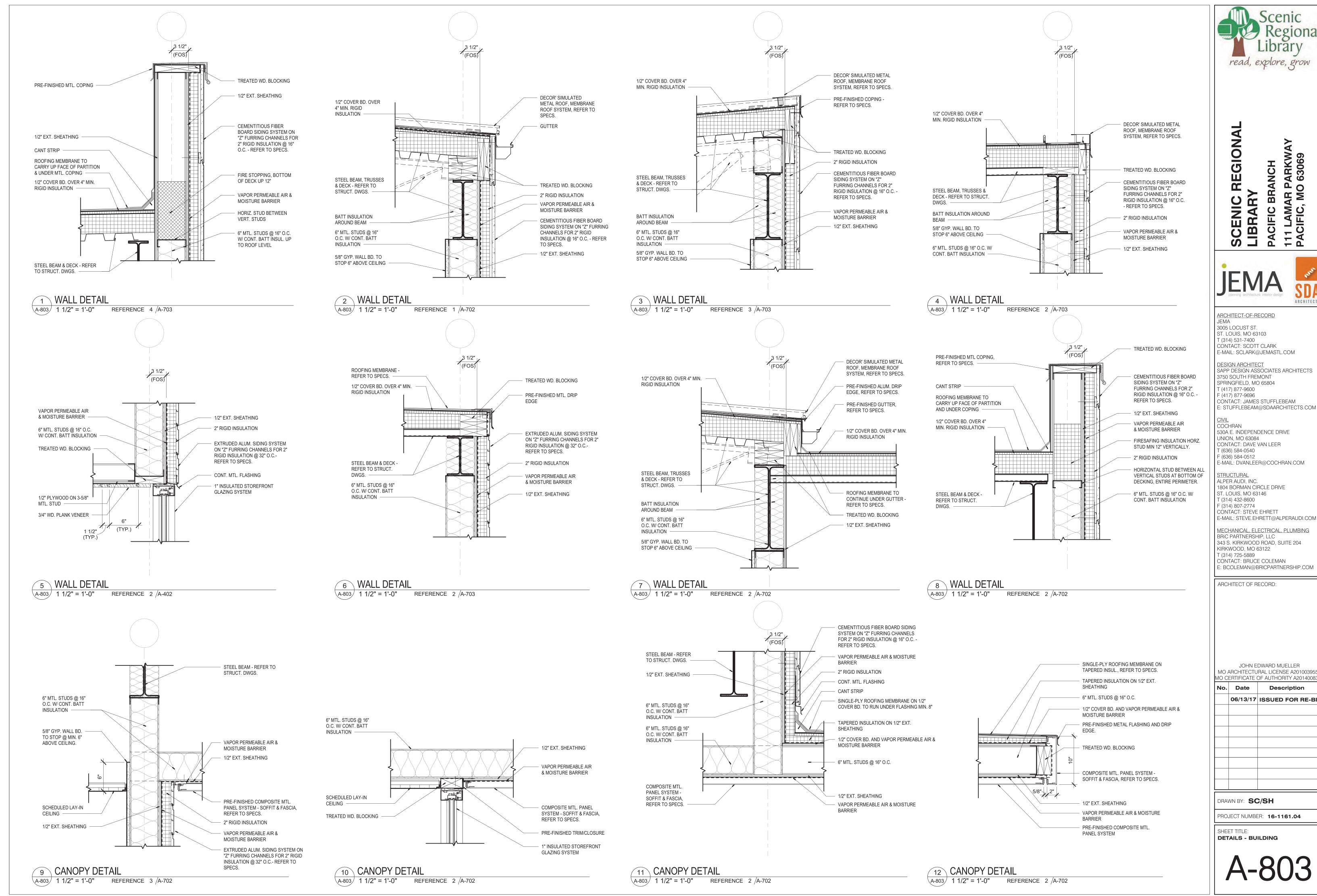
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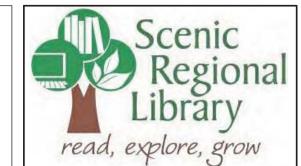
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DRAWN BY: SC/SH

PROJECT NUMBER: 16-1161.04

SHEET TITLE: **DETAILS - PLAN** 

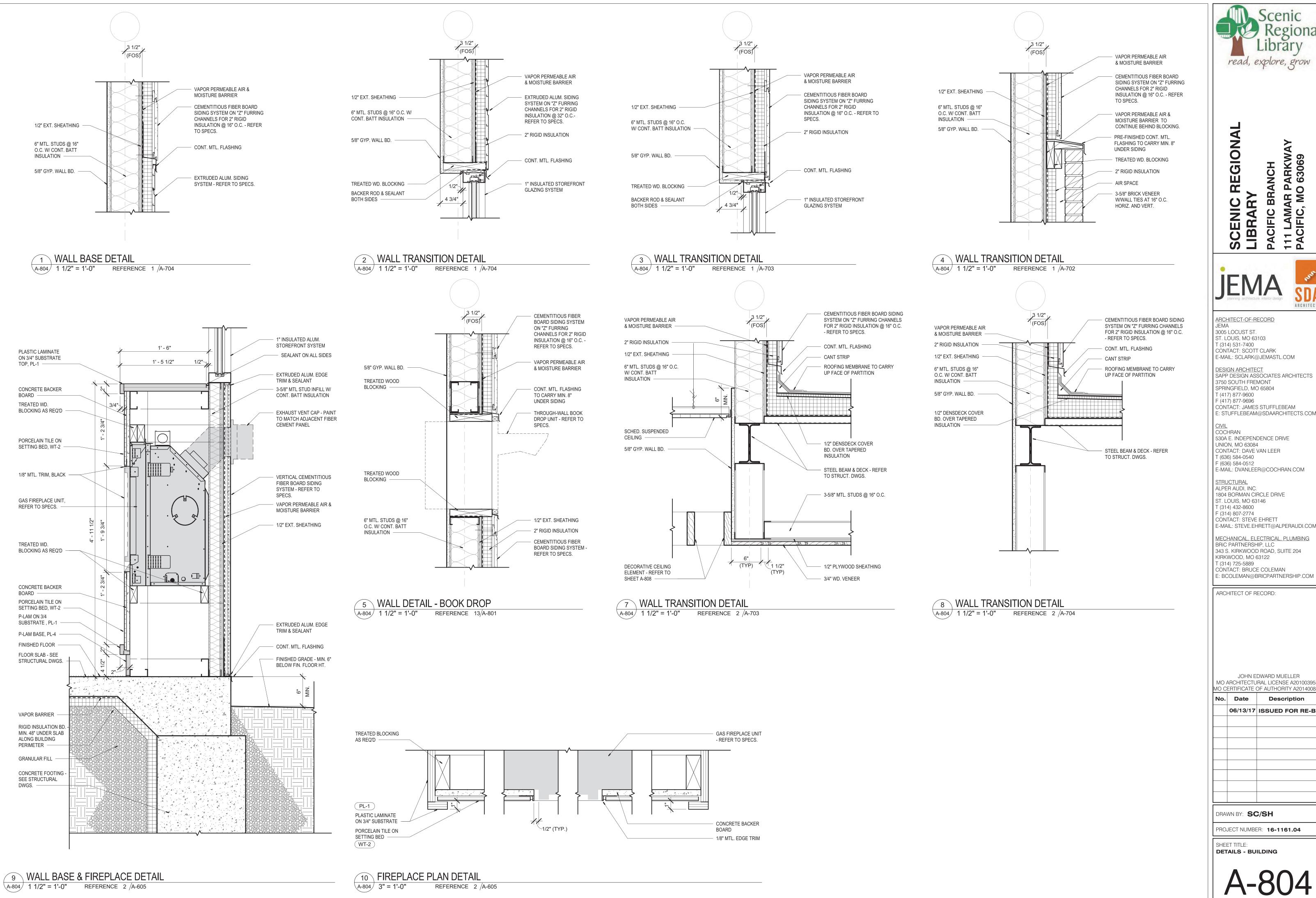


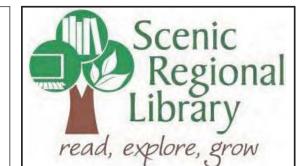


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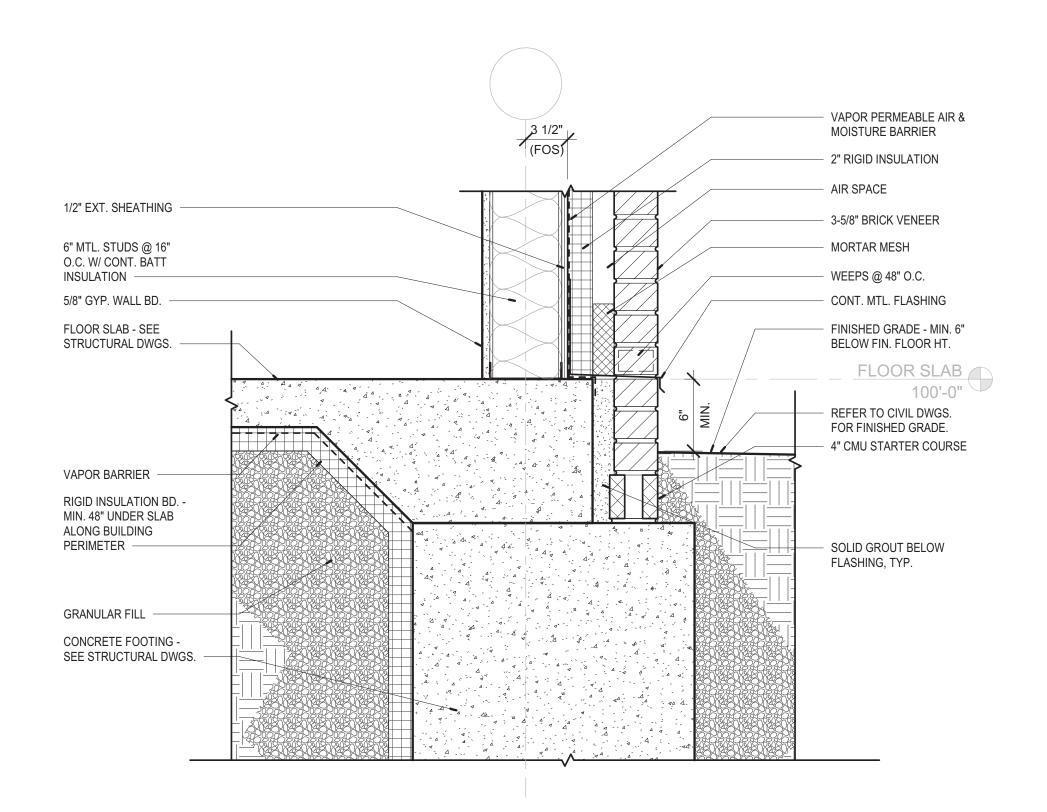
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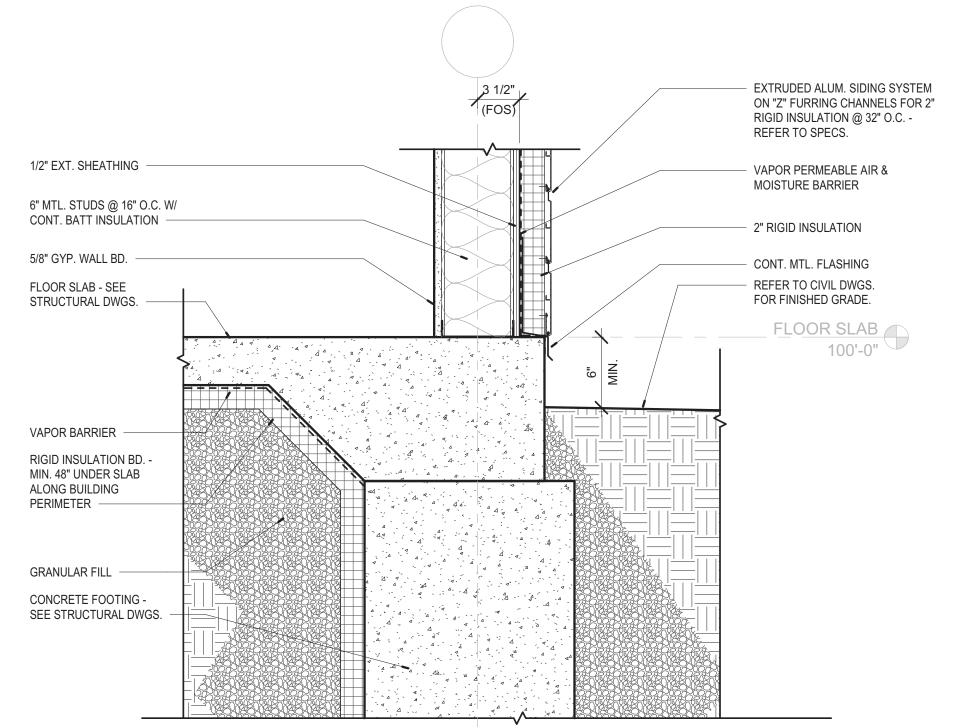
No. Date Description 06/13/17 ISSUED FOR RE-BID

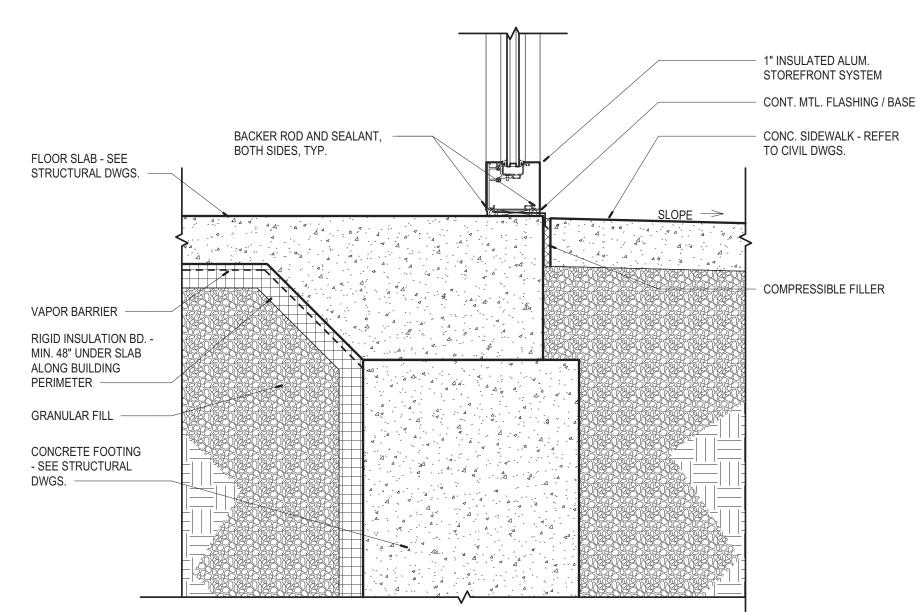
DRAWN BY: SC/SH

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**DETAILS - BUILDING** 





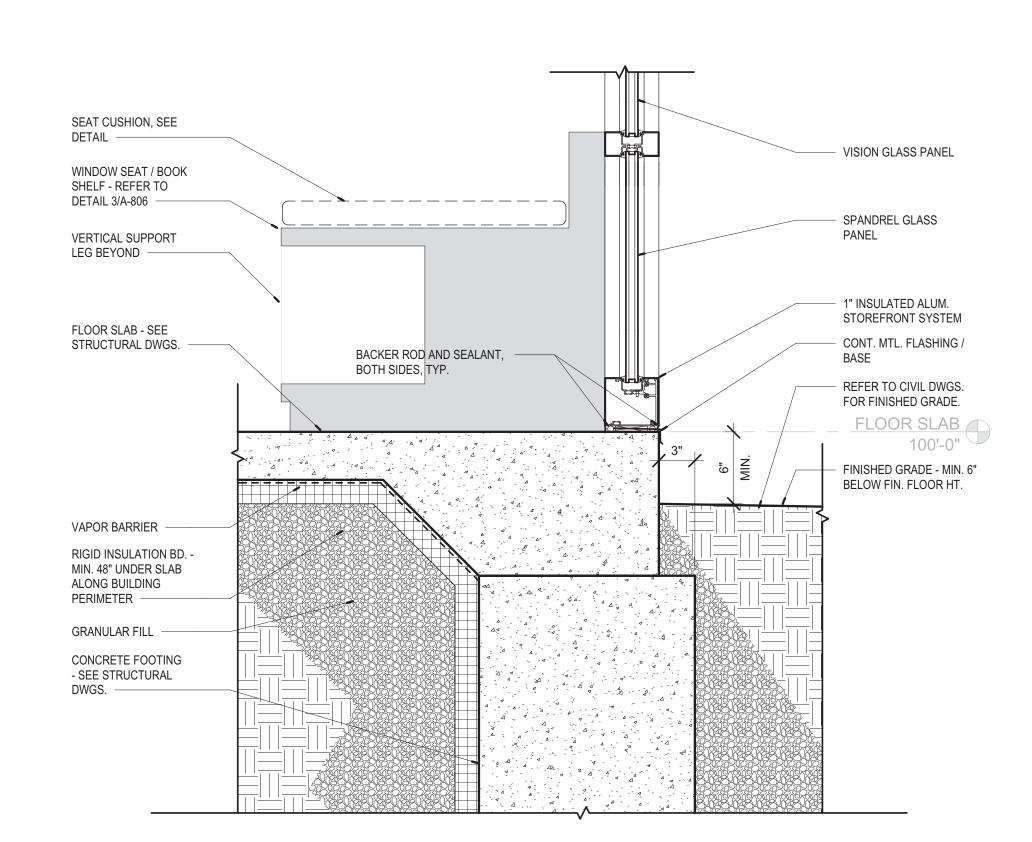


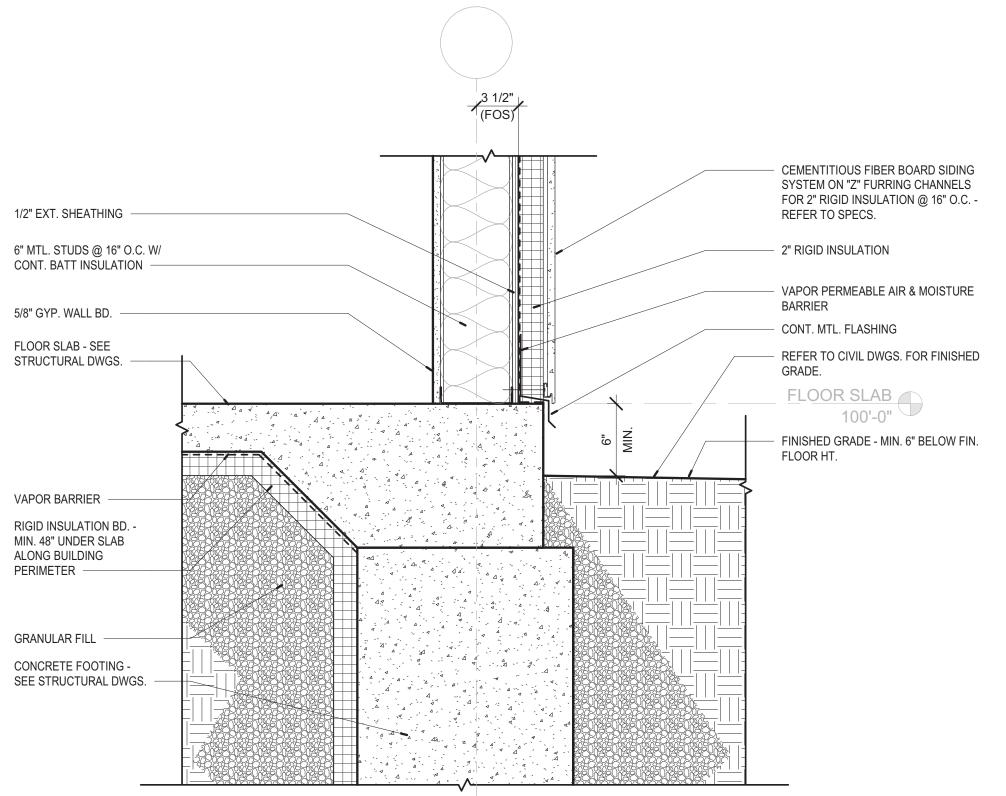
1 WALL BASE DETAIL
A-805 1 1/2" = 1'-0" REFERENCE 1 /A-702

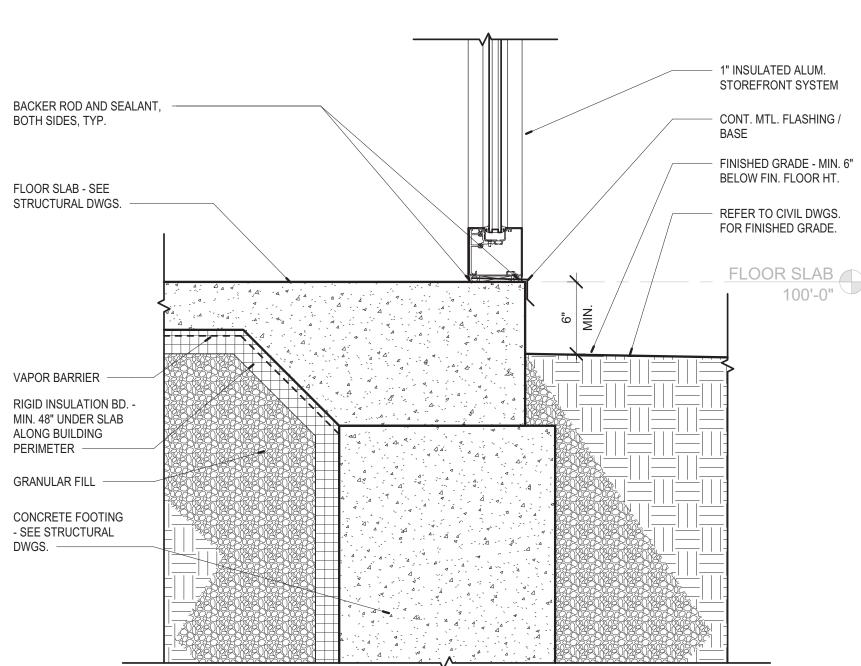
2 WALL BASE DETAIL
A-805 1 1/2" = 1'-0" REFERENCE 3 /A-702

3 WALL BASE DETAIL

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







4 WALL BASE DETAIL

A-805 1 1/2" = 1'-0" REFERENCE 3 /A-7

5 WALL BASE DETAIL

A-805 1 1/2" = 1'-0" REFERENCE 4 /A-703



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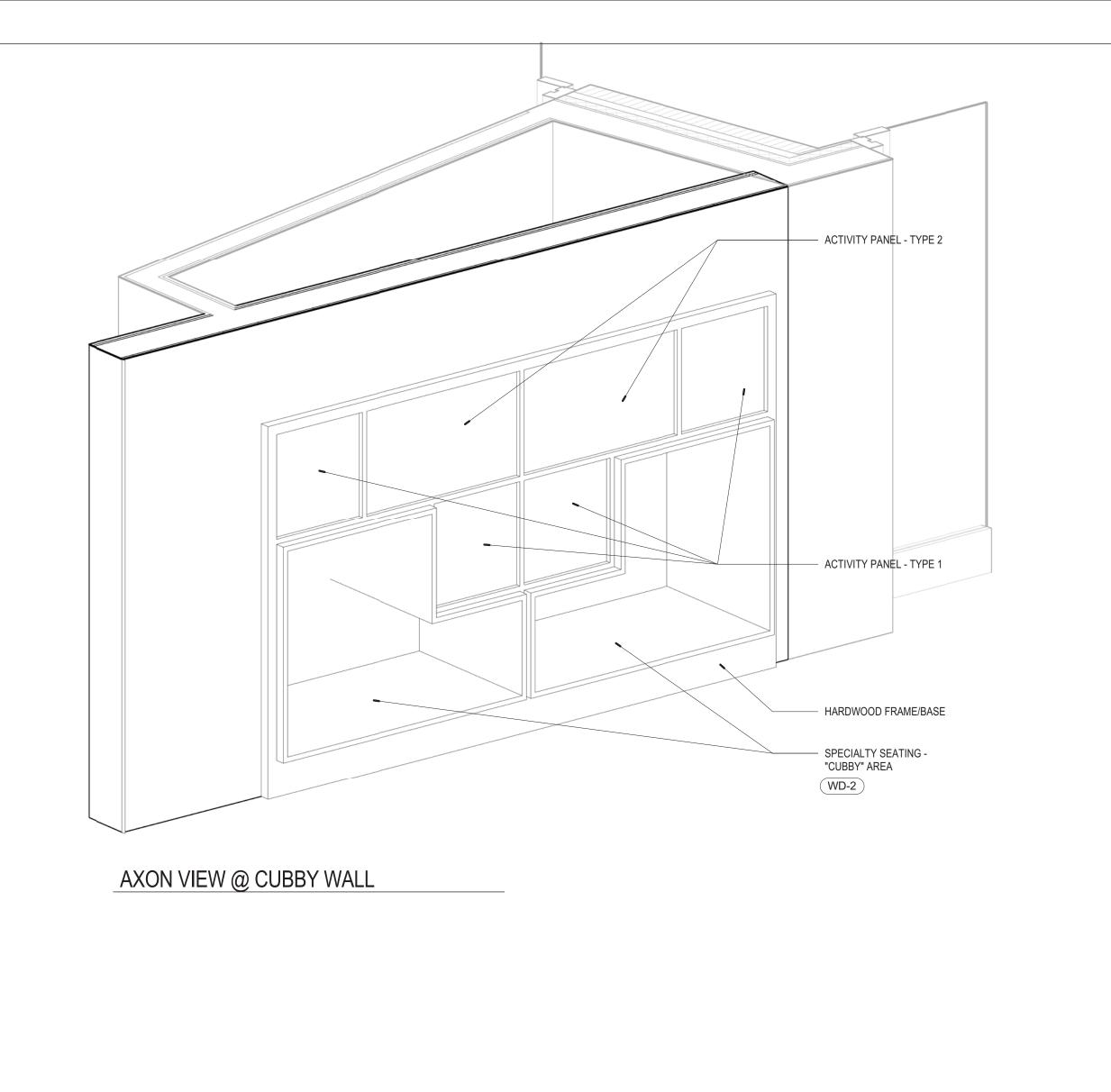
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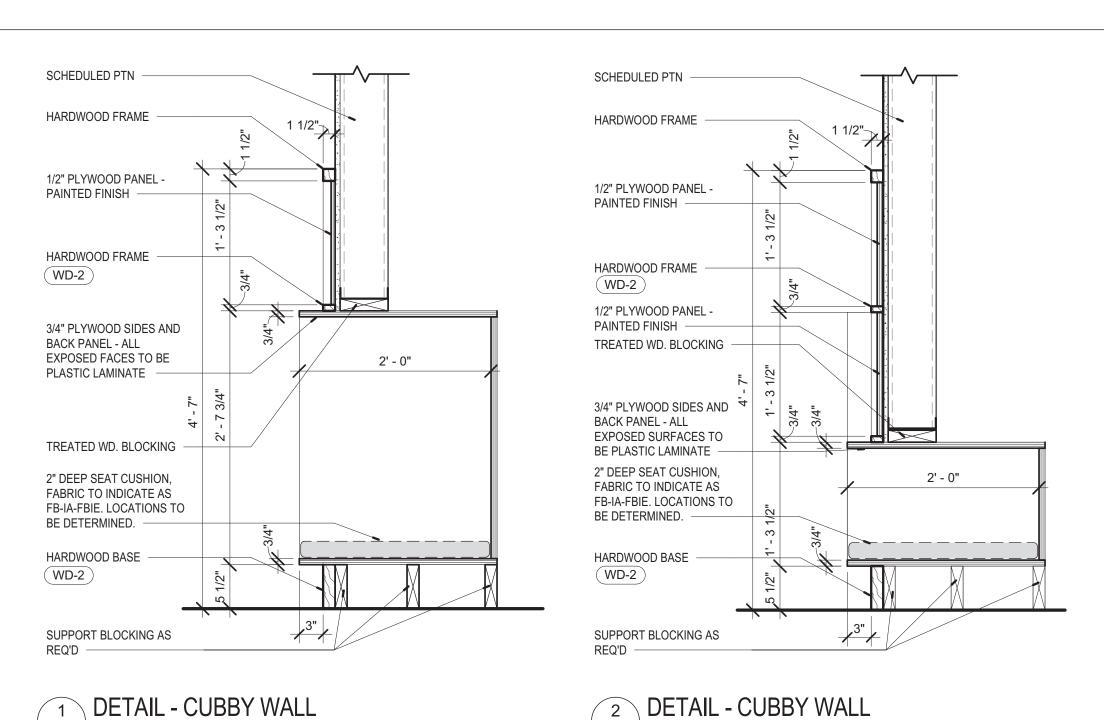
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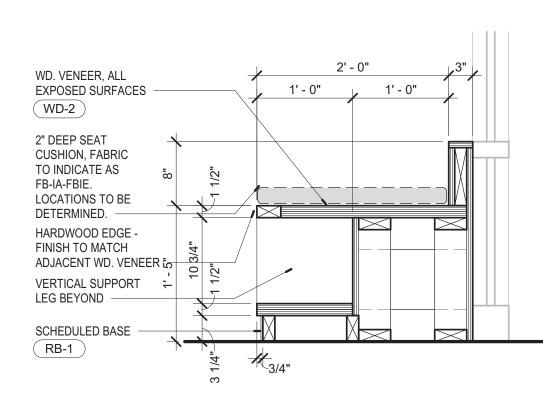
SHEET TITLE: **DETAILS - BUILDING** 

A-805

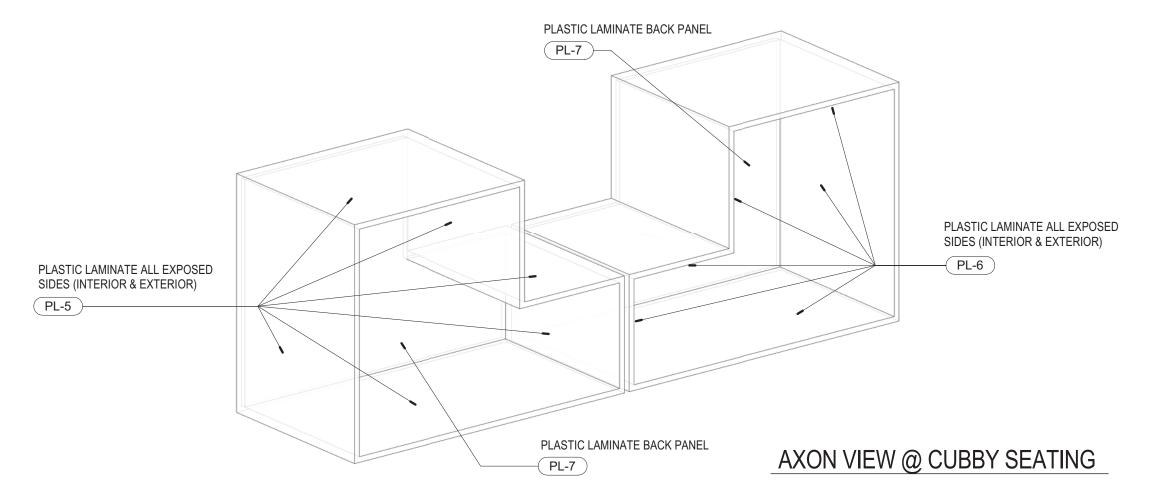




REFERENCE 9 /A-806

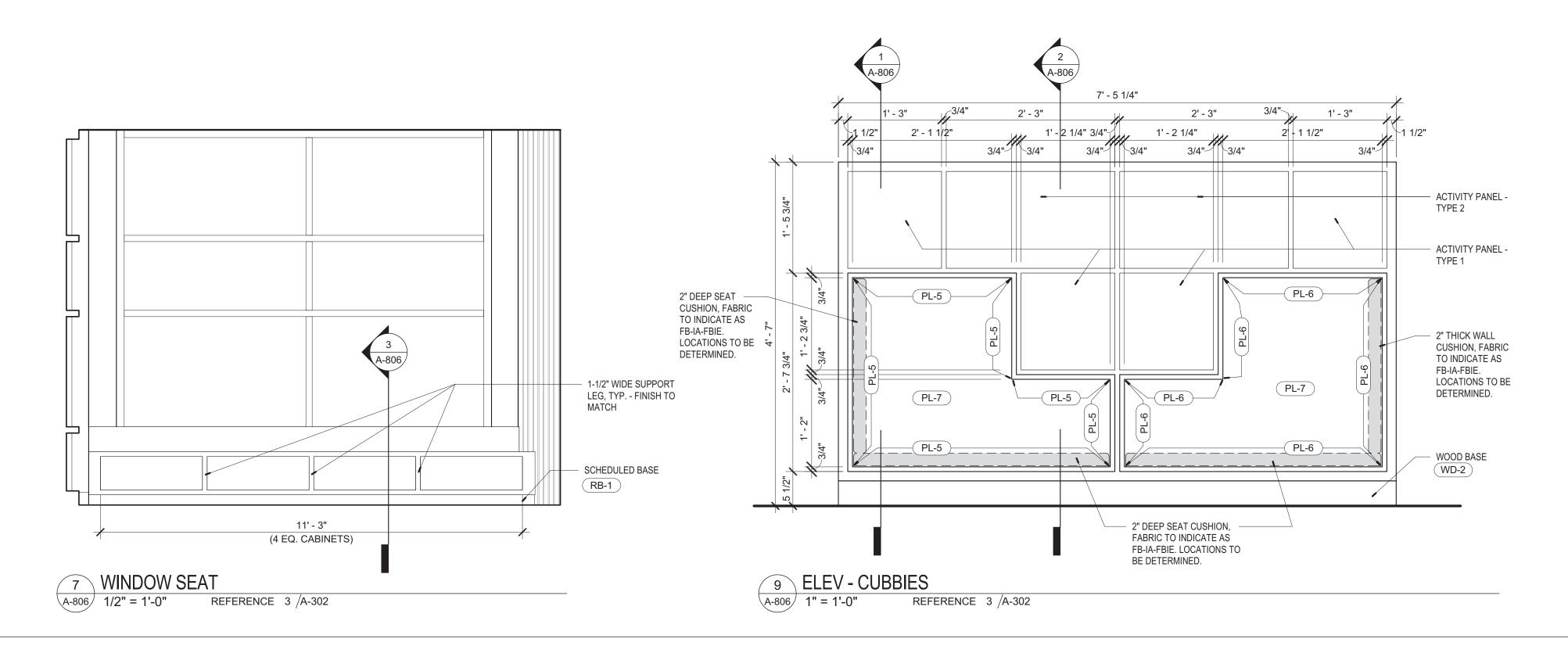


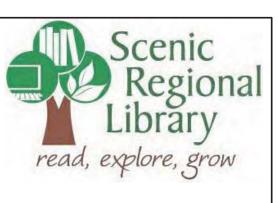
3 DETAIL - WINDOW SEAT A-806 1" = 1'-0" REFERENCE 1 /A-602



A-806 1" = 1'-0"

REFERENCE 9 /A-806





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No.	Date	Description
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DRAWN BY: SC/SH PROJECT NUMBER: 16-1161.04

SHEET TITLE: DETAILS

# ACTIVITY PANEL - TYPE 3 -ACTIVITY PANEL - TYPE 4 ACTIVITY PANEL - TYPE 5

**AXON VIEW @ ACTIVITY WALL** 

1 DETAIL @ DISPLAY CABINET
A-807 1" = 1'-0" REFERENCE 3 /A-605 2 DETAIL @ DISPLAY CABINET
A-807 1" = 1'-0" REFERENCE 3 /A-605 FRT WOOD BLOCKING ACTIVITY PANEL - TYPE 4 -ACTIVITY PANEL - TYPE 3 -ACTIVITY PANEL - TYPE 5 ——— 8' - 9" 3' - 10 1/2" 2' - 3" 2' - 3" WOOD FRAME WD-2 1 1/2" 3/4"\_ 1 1/2" 3/4" PLYWOOD -PAINTED FINISH PT-? SCHEDULED PARTITION -FRT WOOD BLOCKING WOOD BASE WD-2 WOOD BASE WD-2 3 ELEV - ACTIVITY WALL
A-807 1" = 1'-0" REFERENCE 4 DETAIL - ACTIVITY WALL

A-807 1" = 1'-0" REFERENCE 3 / REFERENCE 2 /A-603 REFERENCE 3 /A-807

HOLD MATERIAL AWAY FROM SURROUNDING WALL SURFACE, TYP.

- LED FIXTURE - CONT. ALONG TOP & SIDES, REFER TO ELECT. DRAWINGS.

EXTRUDED ALUM. DOUBLE GLAZING

(2) LAYERS 1/4" TEMPERED GLASS

3-5/8" MTL. STUDS @ 16" O.C.

WOOD BLOCKING

1/4" TEMPERED GLASS SHELF

5/8" GYP. BD.

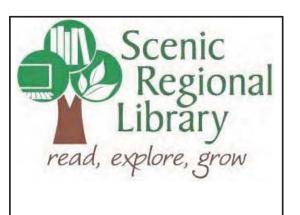
3/4" SLATWALL PANEL W/
PAINTED FINISH
PT-1

1/4" TEMPERED GLASS SHELF —

5/8" GYP. BD. -

WOOD BLOCKING

3-5/8" MTL. STUDS @ 16" O.C.



(2) LAYERS 1/4" TEMPERED GLASS

- EXTRUDED ALUM. DOUBLE GLAZING CHANNEL W/ LOCKING HARDWARE

SOLID SURFACE SILL, SS-1

HOLD MATERIAL AWAY FROM SURROUNDING WALL SURFACE,

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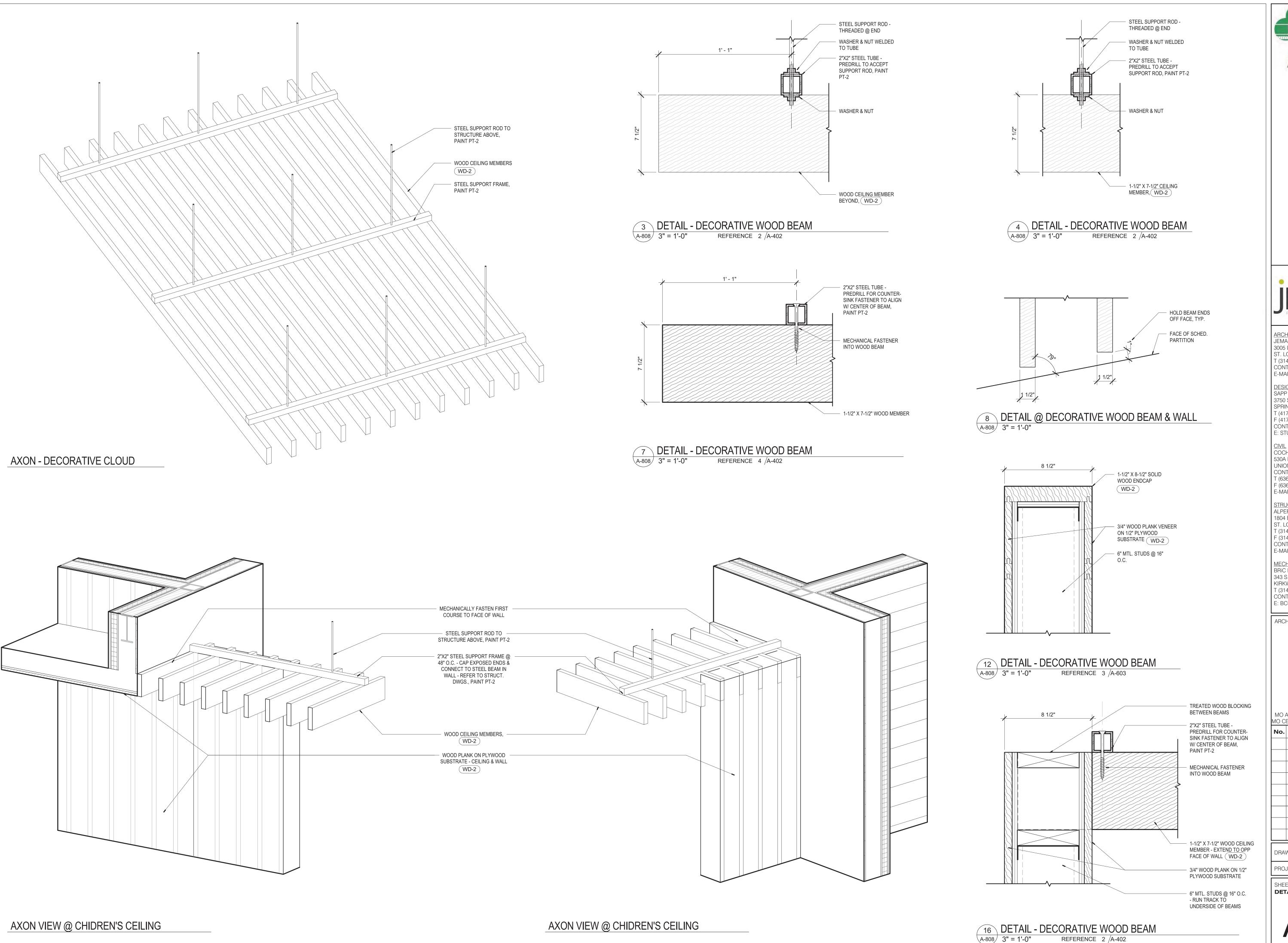
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SHEET TITLE: DETAILS



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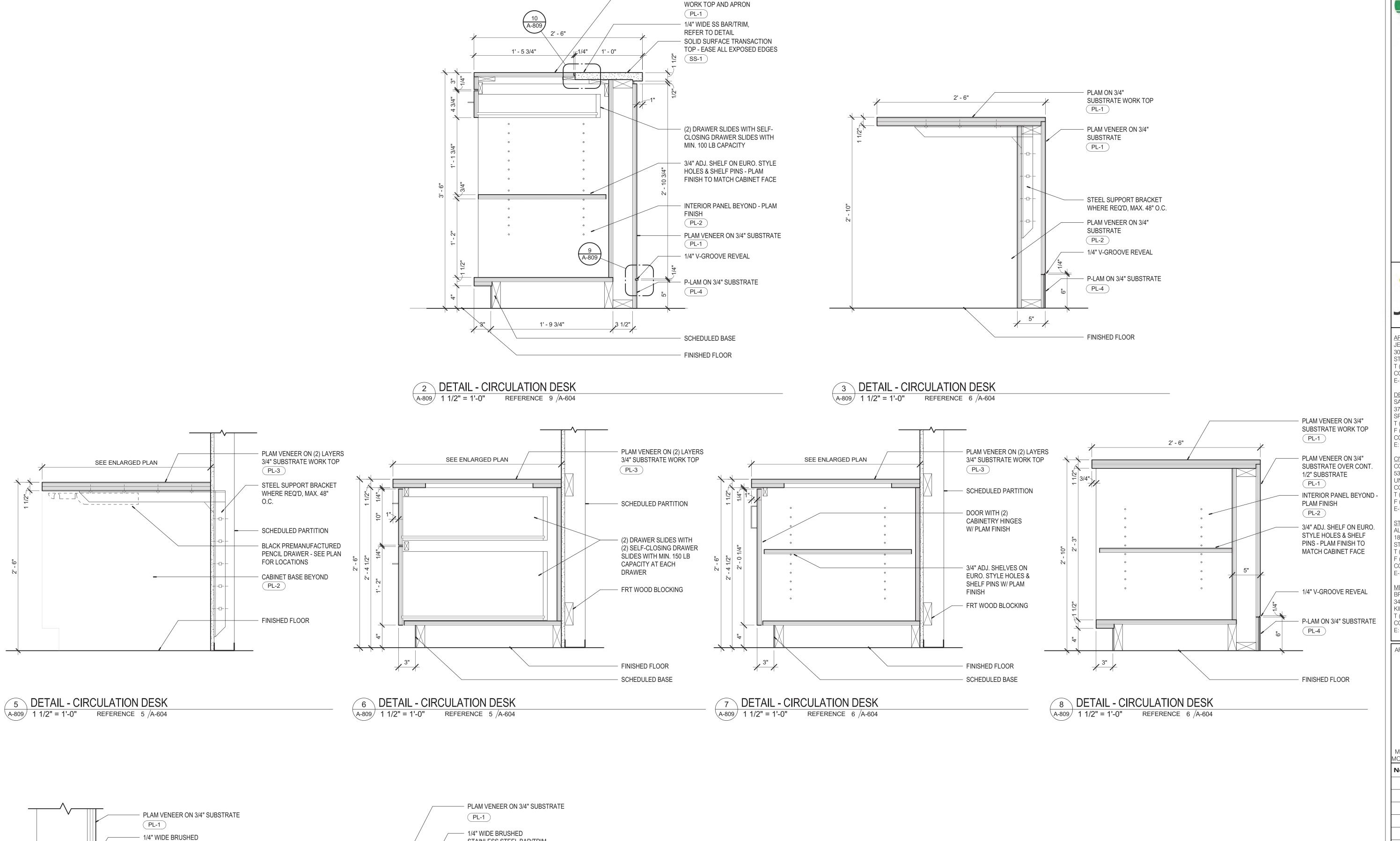
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SHEET TITLE: **DETAILS** 

A-808



PLAM VENEER ON 3/4" SUBSTRATE



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SHEET TITLE:
DETAILS - MILLWORK

**A O O C** 

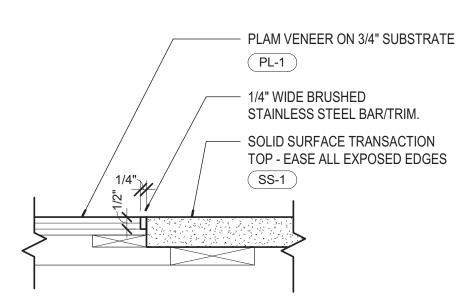
9 DETAIL - CIRCULATION DESK BASE TRIM

A-809 3" = 1'-0" REFERENCE 2 /A-809

STAINLESS STEEL BAR/TRIM.

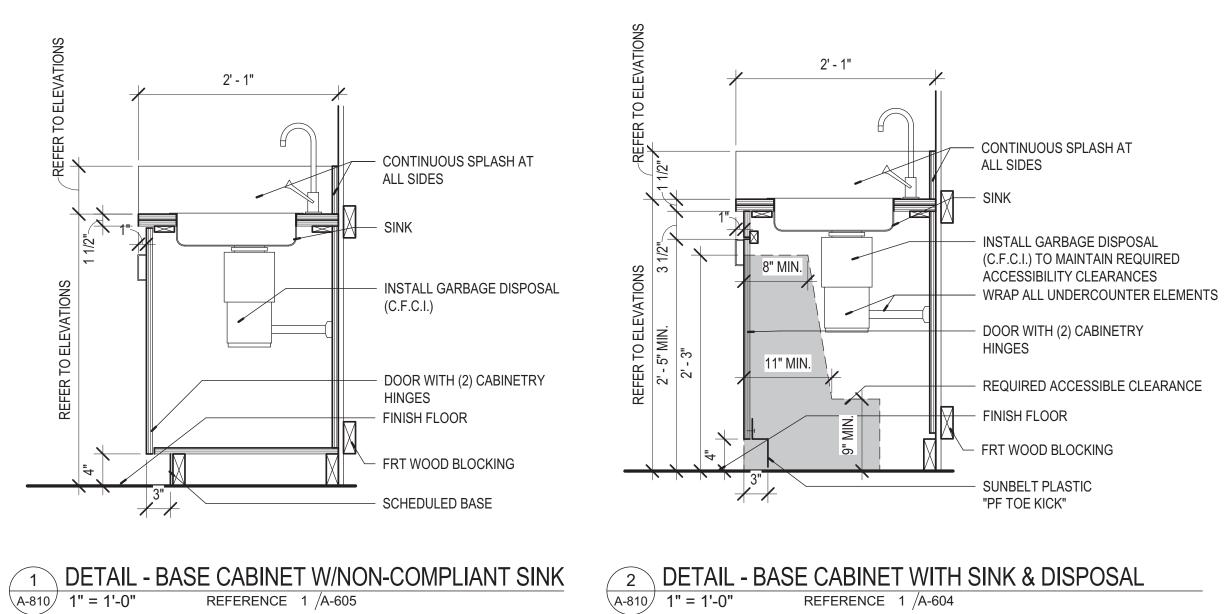
P-LAM ON 3/4" SUBSTRATE

(PL-4)



10 DETAIL - CIRCULATION DESK TOP

A-809 3" = 1'-0" REFERENCE 2 /A-809



- FIXED SHELF 3/4" MDF WITH PL-2

ALL SURFACES

FRT WOOD BLOCKING

STEEL SUPPORT BRACKET,

PAINT TO MATCH WALL

1-1/2" DIA. BRUSHED

SOCKETS AT EACH END

REFERENCE 1 /A-605

ALUMINUM PIPE WITH

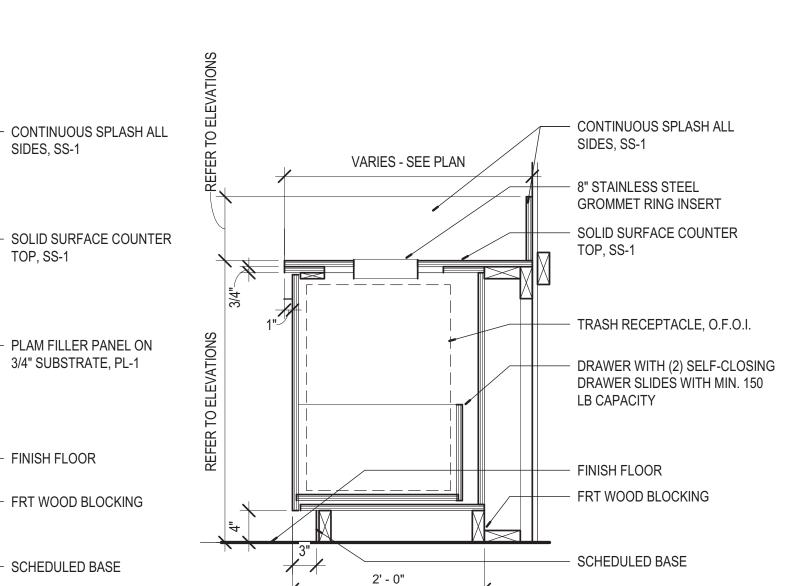


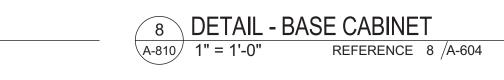
VARIES - SEE PLAN

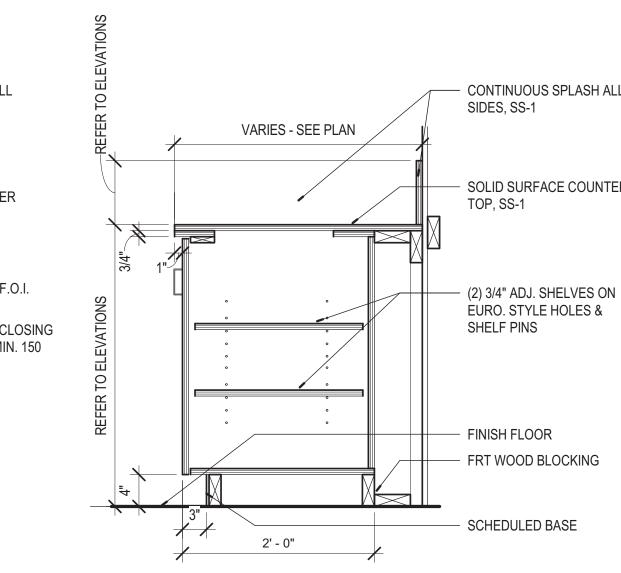
SIDES, SS-1

TOP, SS-1

FINISH FLOOR







2' - 1"

4 DETAIL - BASE CABINET WITH DRAWER (1)

SELF-CLOSING DRAWER

SLIDES WITH MIN. 100 LB

MATCH CABINET FACE

FRT WOOD BLOCKING

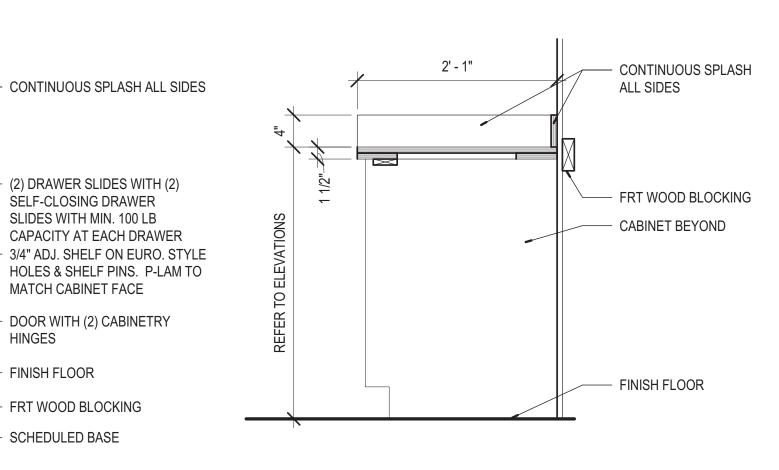
- SCHEDULED BASE

HINGES

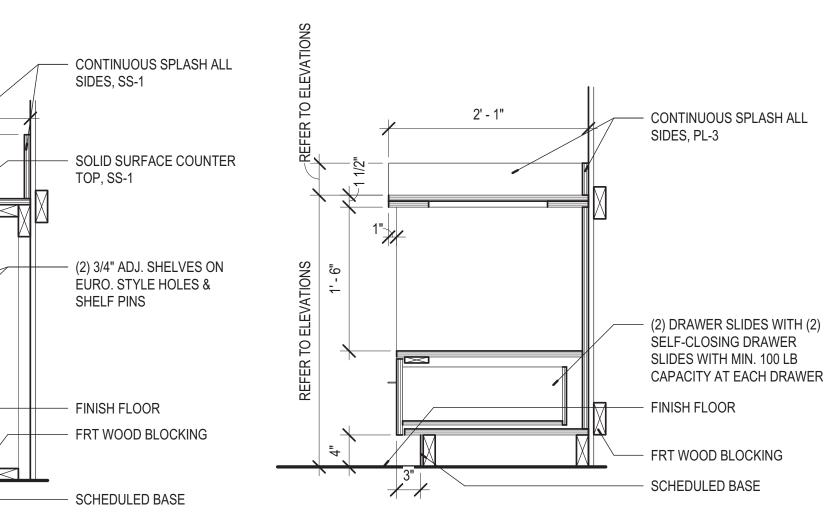
FINISH FLOOR

DOOR WITH (2) CABINETRY

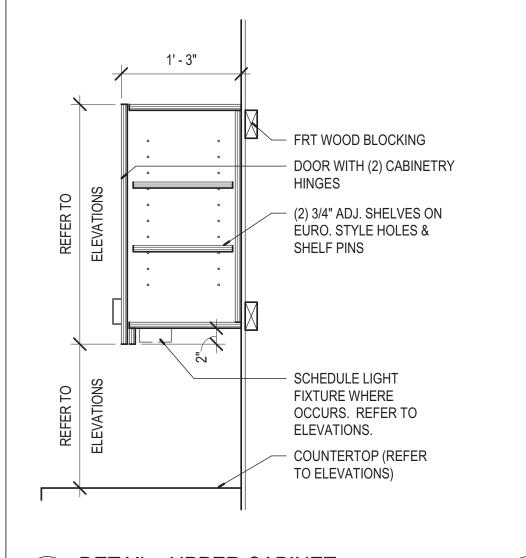




5 DETAIL - BASE CABINET - OPEN A-810 1" = 1'-0" REFERENCE 1 /A-605



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

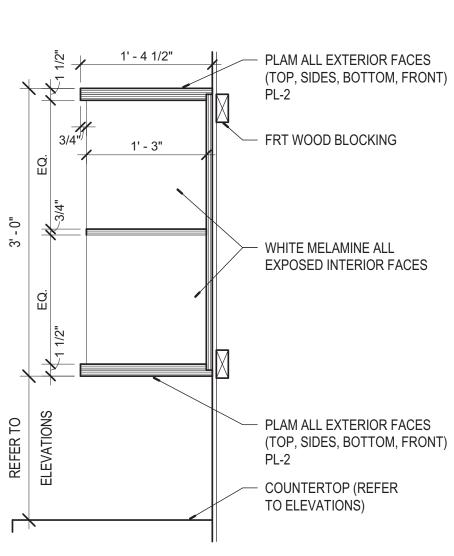


6 DETAIL - COAT ROD & SHELF

5'-10" A.F.F.

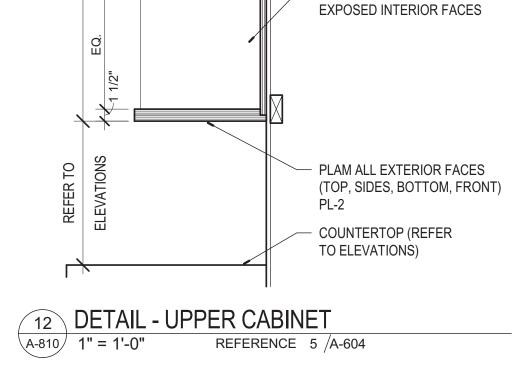
A-810 1" = 1'-0"





7 DETAIL - BASE CABINET

REFERENCE 8 /A-604



JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039554

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E: BCOLEMAN@BRICPARTNERSHIP.COM

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CONTACT: DAVE VAN LEER

1804 BORMAN CIRCLE DRIVE

CONTACT: STEVE EHRETT

BRIC PARTNERSHIP, LLC

CONTACT: BRUCE COLEMAN

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SAPP DESIGN ASSOCIATES ARCHITECTS

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3005 LOCUST ST. ST. LOUIS, MO 63103

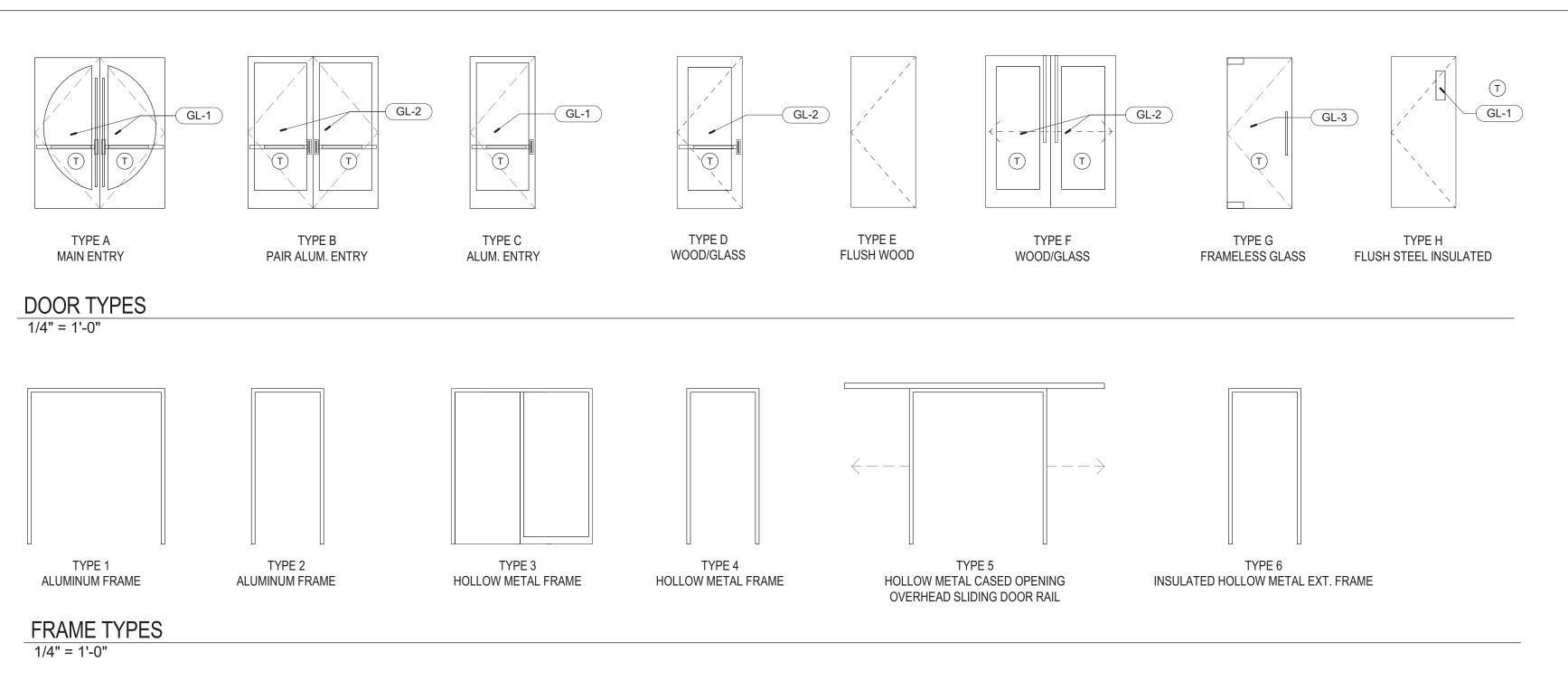
T (314) 531-7400

MO CERTIFICATE OF AUTHORITY A2014008380 No. Date Description 06/13/17 ISSUED FOR RE-BID

DRAWN BY: SC/SH

PROJECT NUMBER: 16-1161.04

SHEET TITLE: **DETAILS - MILLWORK** 



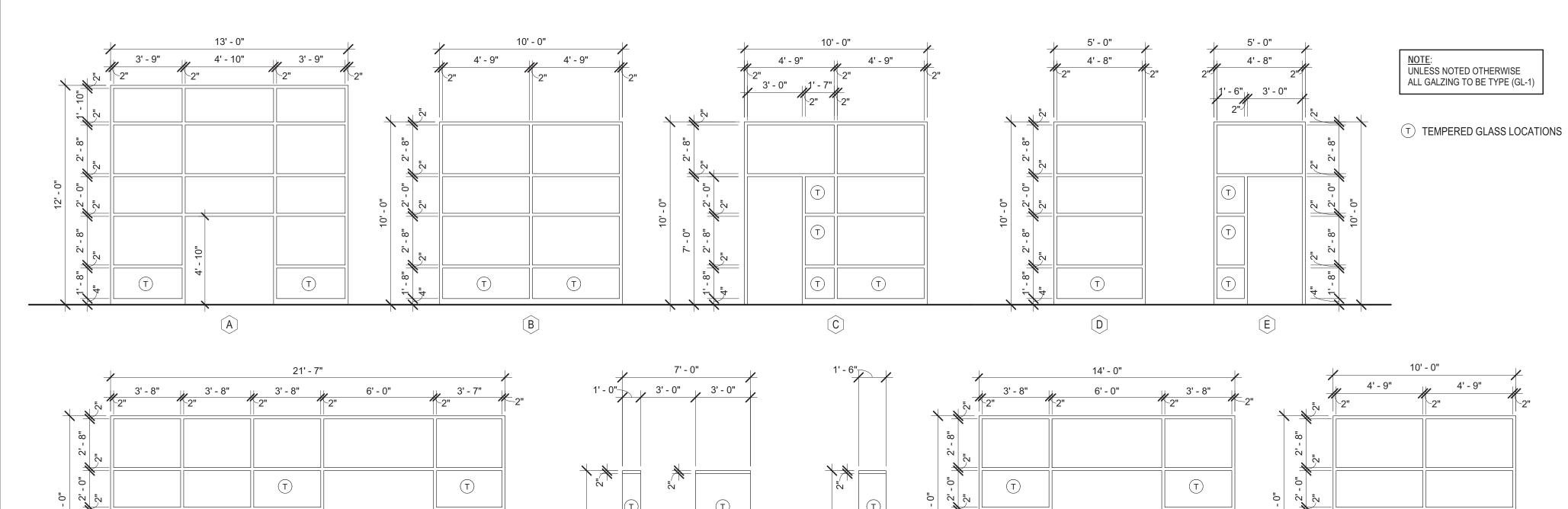
						DOOR SC	HEDULE			
DOOR			DOOR	DOOR	DOOR	FI	RAME	FIRE		
NUMBER	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	TYPE	FINISH	RATING	HDWR GROUP	REMARKS
				T	T T					
100A	PR 3' - 0"	7' - 0"	1 3/4"	Α	ALUM	1	PRE-FINISHED		1.0 A0	CUSTOM COLOR TO MATCH SAMPLE, SEE SPEC
100B	PR 3' - 0"	7' - 0"	1 3/4"	В	ALUM	1	PRE-FINISHED		4.0 A0	
101	3' - 0"	7' - 0"	1 3/4"	D	WD-1/GL	3	PT-3		6.0	
102	3' - 0"	7' - 0"	1 3/4"	Е	WD-1	4	PT-3		13.0	
103	3' - 0"	7' - 0"	1 3/4"	Е	WD-1	4	PT-3		13.0	
104	3' - 6"	7' - 0"	1 3/4"	Е	WD-1	4	PT-3	45 MINUTE	7.0	
106A	PR 3' - 0"	7' - 0"	1 3/4"	F	WD-1/GL	5	PT-3		5.0	PAIR OF SLIDERS ON RAIL
106B	PR 3' - 0"	7' - 0"	1 3/4"	F	WD-1/GL	5	PT-3		5.0	PAIR OF SLIDERS ON RAIL
106C	3' - 0"	7' - 0"	1 3/4"	С	ALUM	2	PRE-FINISHED		2.0	
107	3' - 0"	7' - 0"	1 3/4"	С	ALUM	2	PRE-FINISHED		2.0	
110	3' - 0"	7' - 0"	1 3/4"	С	ALUM	2	PRE-FINISHED		2.0	
112	3' - 0"	7' - 0"	1 3/4"	Е	WD-1	4	PT-3		11.0	
113	3' - 0"	7' - 0"	1/2"	G	GL	N/A	N/A		14.0	FLOOR AND HEAD PIVOTS, SEE SPECS.
114	3' - 0"	7' - 0"	1/2"	G	GL	N/A	N/A		14.0	FLOOR AND HEAD PIVOTS, SEE SPECS.
115	3' - 0"	7' - 0"	1 3/4"	Е	WD-1	4	PT-3		8.0	
117	3' - 0"	7' - 0"	1 3/4"	Е	WD-1	4	PT-3	45 MINUTE	10.0	
118	3' - 0"	7' - 0"	1 3/4"	Н	MTL	6	PT-3		3.0	
119	3' - 0"	7' - 0"	1 3/4"	Е	WD-1	4	PT-3		9.0	
120	3' - 0"	7' - 0"	1 3/4"	Е	WD-1	4	PT-3		12.0	

# DOOR HARDWARE NOTES:

(GL-4)(T)

GL-4 T

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



GL-3

T

T

WINDOW TYPES 1/4" = 1'-0"

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ARCHITECT OF RECORD:

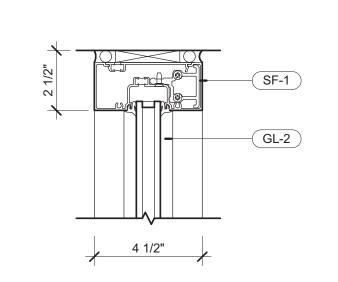
JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

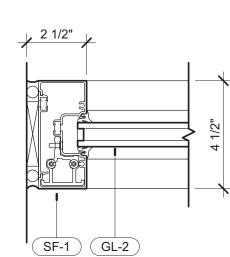
No.	Date	Description
	06/13/17	ISSUED FOR RE-BI

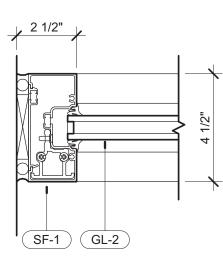
DRAWN BY: SC/SH

PROJECT NUMBER: 16-1161.04

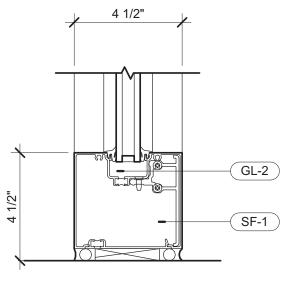
SHEET TITLE: DOOR SCHEDULE / DOOR, FRAME AND WINDOW TYPES

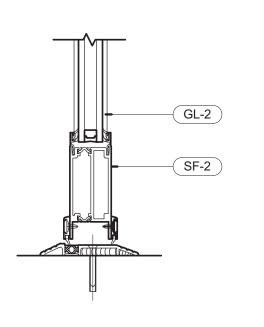


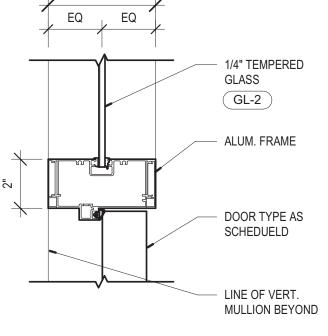


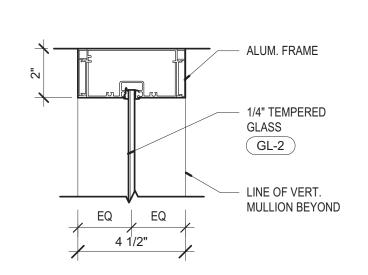












1 HEAD MULLION A-902 3" = 1'-0"

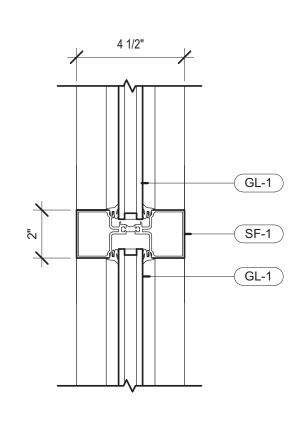


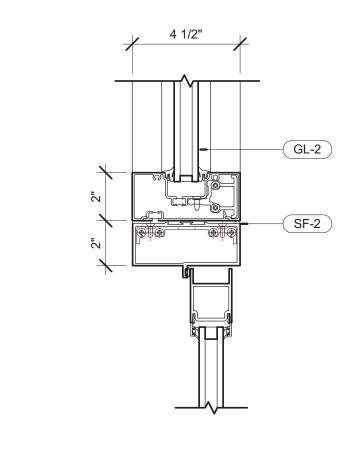
3 SILL MULLION A-902 3" = 1'-0"

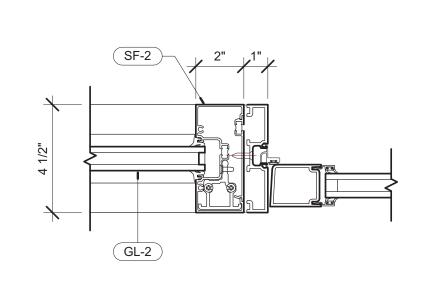
4 DOOR SILL A-902 3" = 1'-0"

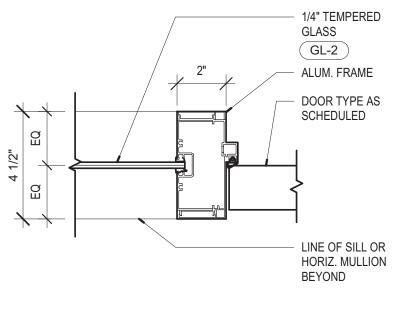
5 MULLION / DOOR JAMB
A-902 3" = 1'-0"

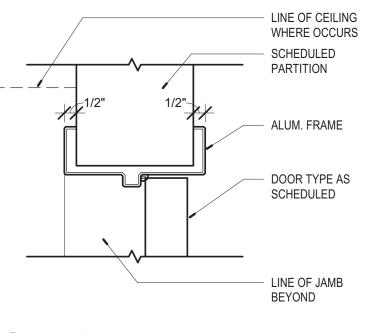
MULLION / DOOR JAMB A-902 3" = 1'-0"

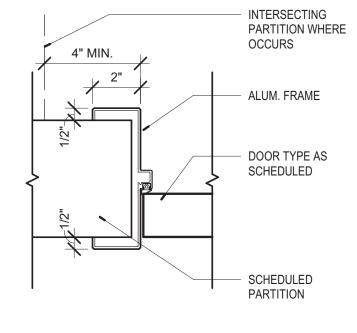












7 INNER MULLION A-902 3" = 1'-0"

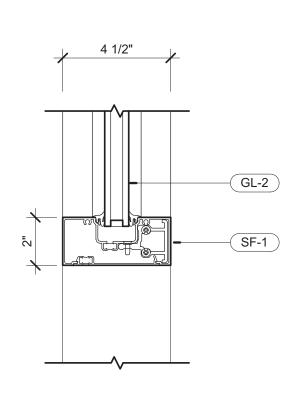




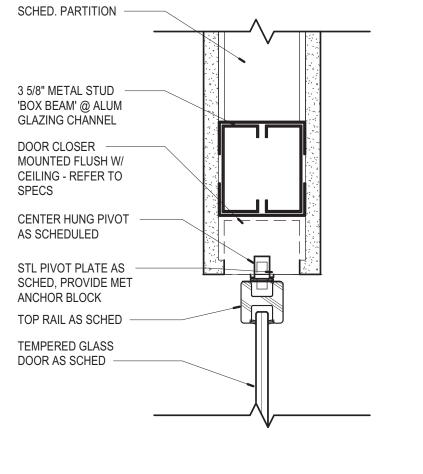
10 MULLION / DOOR JAMB A-902 3" = 1'-0"

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

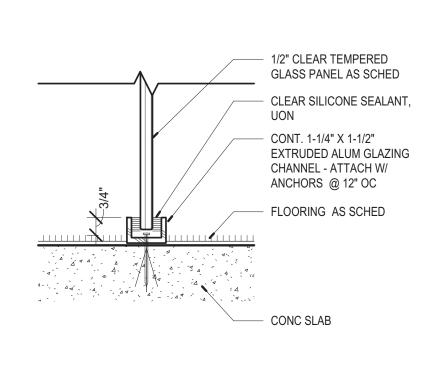
DOOR JAMB (TYP) A-902 3" = 1'-0"



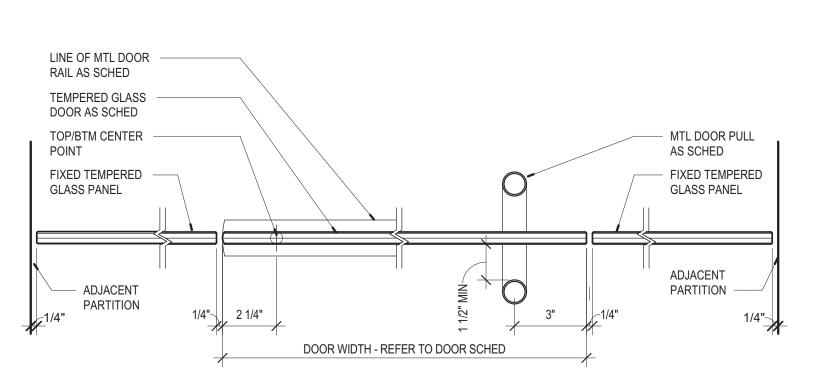




15 DETAIL @ GLASS DOOR HEAD A-902 3" = 1'-0"



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



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

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ARCHITECT OF RECORD:

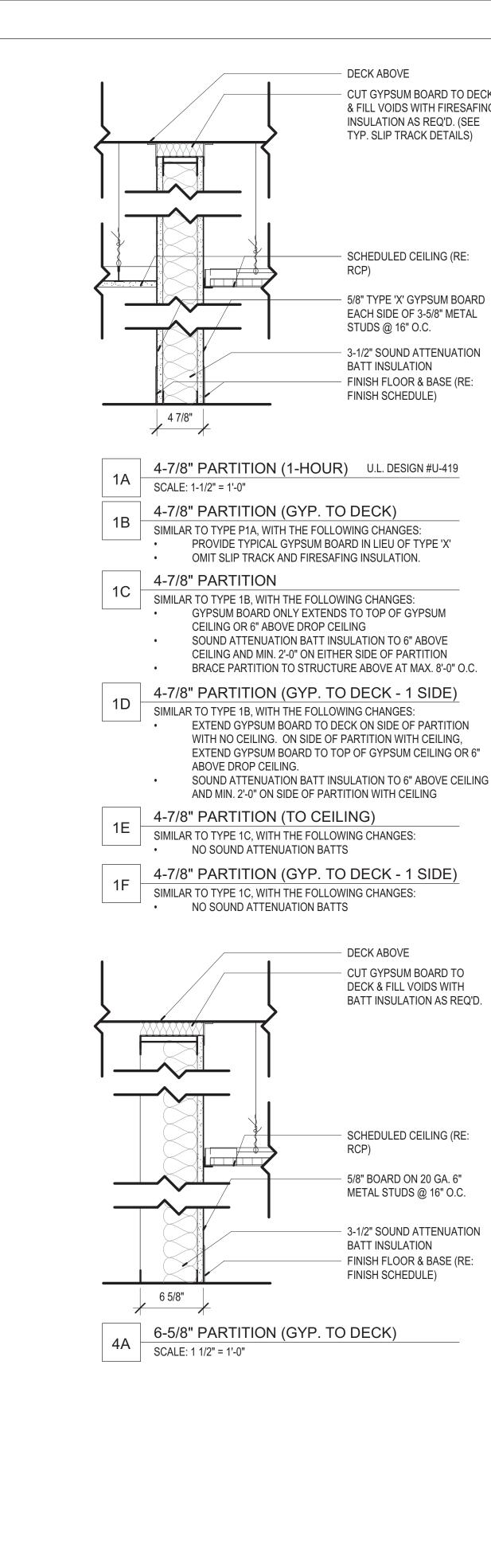
JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

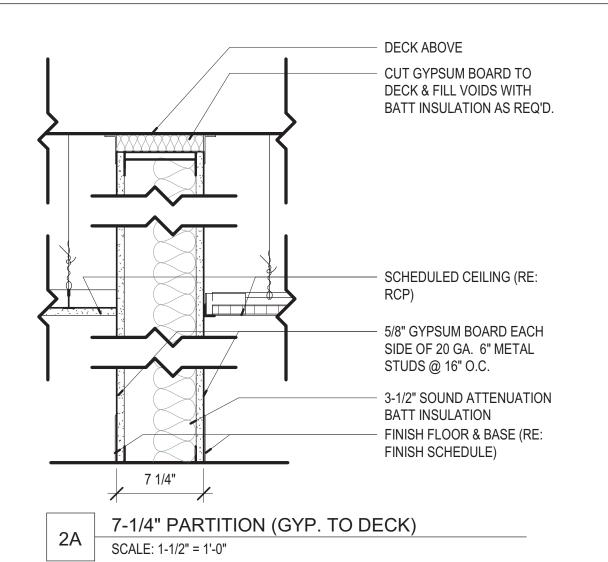
No.	Date	Description		
	06/13/17	ISSUED FOR RE-BID		

DRAWN BY: SC/SH

PROJECT NUMBER: 16-1161.04

SHEET TITLE: FRAME DETAILS





7-1/4" PARTITION

DECK ABOVE

CUT GYPSUM BOARD TO DECK

& FILL VOIDS WITH FIRESAFING

INSULATION AS REQ'D. (SEE TYP. SLIP TRACK DETAILS)

SCHEDULED CEILING (RE:

5/8" TYPE 'X' GYPSUM BOARD

EACH SIDE OF 3-5/8" METAL

3-1/2" SOUND ATTENUATION

FINISH FLOOR & BASE (RE:

STUDS @ 16" O.C.

**BATT INSULATION** 

FINISH SCHEDULE)

DECK ABOVE

CUT GYPSUM BOARD TO

DECK & FILL VOIDS WITH

SCHEDULED CEILING (RE:

5/8" BOARD ON 20 GA. 6"

METAL STUDS @ 16" O.C.

**BATT INSULATION** 

FINISH SCHEDULE)

3-1/2" SOUND ATTENUATION

FINISH FLOOR & BASE (RE:

BATT INSULATION AS REQ'D.

RCP)

SIMILAR TO TYPE 2a, WITH THE FOLLOWING CHANGES:

GYPSUM BOARD ONLY EXTENDS TO TOP OF GYPSUM CEILING OR 6" ABOVE DROP CEILING

SOUND ATTENUATION BATT INSULATION TO 6" ABOVE CEILING AND MIN. 2'-0" ON EITHER SIDE OF PARTITION BRACE PARTITION TO STRUCTURE ABOVE AT MAX. 8'-0" O.C.

7-1/4" PARTITION (1-HOUR) U.L. DESIGN #U-419 SIMILAR TO TYPE 2a, WITH THE FOLLOWING CHANGES:

> TYPE "X" GYPSUM BOARD. SLIP TRACK AND FIRESAFING INSULATION.

7-1/4" PARTITION (TO CEILING) SIMILAR TO TYPE 2a, WITH THE FOLLOWING CHANGES:

 GYPSUM BOARD ONLY EXTENDS TO SCHEDULED CEILING BRACE PARTITION TO STRUCTURE ABOVE AT MAX. 8'-0"

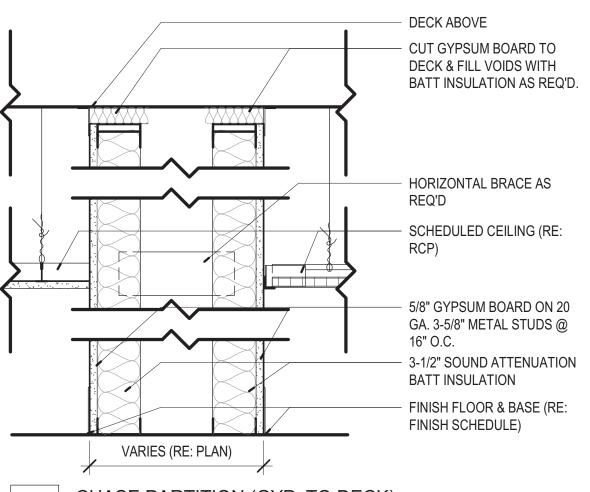
8-1/2" PARTITION

SIMILAR TO TYPE 2a, WITH THE FOLLOWING CHANGES: 1/2" PLYWOOD SHEATHING BOTH SIDES IN LIEU OF

GYPSUM BOARD

3/4" WOOD PLANK BOTH SIDES

NO SOUND ATTENUATION BATTS



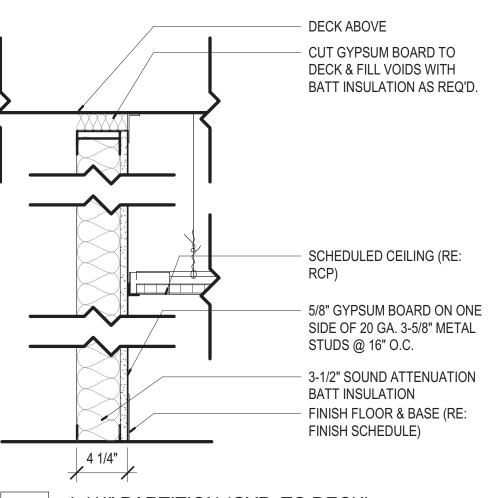
CHASE PARTITION (GYP. TO DECK) SCALE: 1 1/2" = 1'-0"

CHASE PARTITION

SIMILAR TO TYPE 5a, WITH THE FOLLOWING CHANGES:

PROVIED CEMETITIOUS BACKER BOARD UP TO 48" A.F.F. EXTEND GYPSUM BOARD TO TOP OF GYPSUM CEILING OR MIN 6" ABOVE DROP CEILING

SOUND ATTENUATION BATT INSULATION TO 6" ABOVE CEILING AND MIN. 2'-0" ON EITHER SIDE OF PARTITION



4-1/4" PARTITION (GYP. TO DECK) SCALE: 1 1/2" = 1'-0"

4-1/4" PARTITION

SIMILAR TO TYPE 3a. WITH THE FOLLOWING CHANGES:

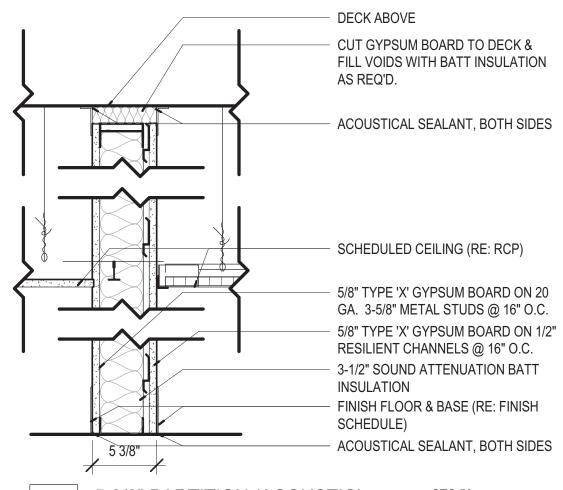
STOP PARTITION INSULATION AT TOP OF GYPSUM BOARD EXTEND GYPSUM BOARD TO TOP OF GYPSUM CEILING OR MIN. 6" ABOVE DROP CEILING

BRACE PARTITION TO DECK AT MAX. 8'-0" O.C. IF NOT USED AS FURRING WALL

4-1/4" PARTITION (TO CEILING)

SIMILAR TO TYPE 3b, WITH THE FOLLOWING CHANGES:

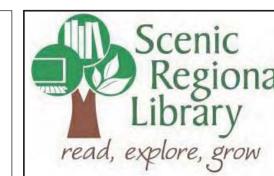
NO SOUND ATTENUATION BATTS



5-3/8" PARTITION (ACOUSTIC) STC 50 SCALE: 1-1/2" = 1'-0"

7-3/4" PARTITION (ACOUSTIC) STC 56 SIMILAR TO TYPE 6a, WITH THE FOLLOWING CHANGES: USE 20 GA. 6" METAL STUDS IN LIEU OF 3-5/8"

METAL STUDS USE 5" THERMAFIBER SAFB SOUND ATTENUATION BATT INSULATION



PARKW. O 63069 BRANCH SCENIC LIBRAR



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ARCHITECT OF RECORD:

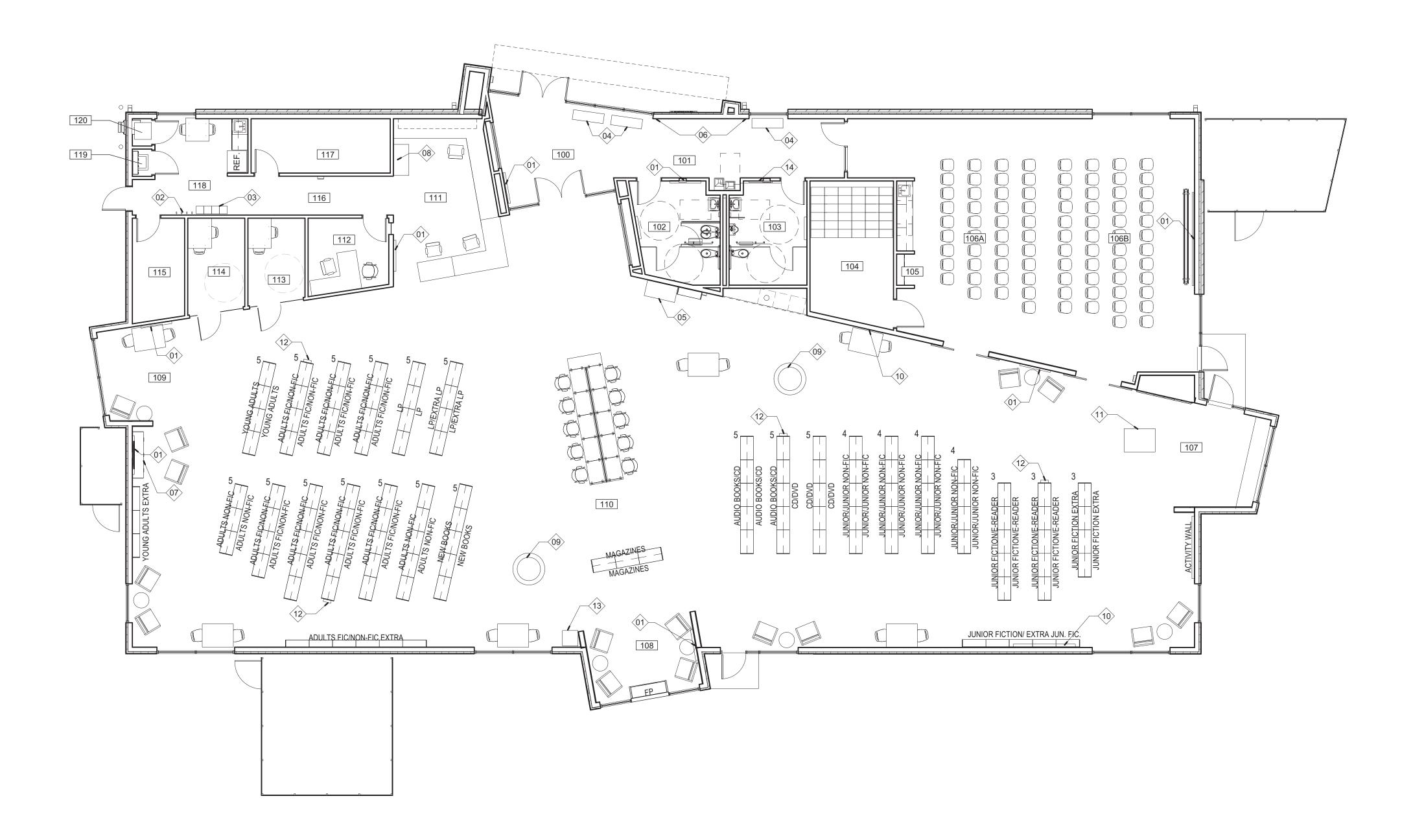
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No.	Date	Description
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DRAWN BY: SC/SH

PROJECT NUMBER: 16-1161.04

SHEET TITLE: PARTITION TYPES





# GENERAL NOTES - FURNITURE PLAN

LOCKING BULLETING BOARD CABINET, CFCI. REFER TO SPECS.

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

I-PAD TABLE, OFOI. OPAC UNIT, OFOI.

NEWSPAPER DISPLAY, OFOI.

Keynote Number

	KEYED NOTES - FURNITURE PLAN	
<del>)</del>	Description	
	WALL-MOUNTED DISPLAY, DISPLAY AND MOUNTING BRACKET OFCI.	
	COAT HOOKS, CFCI, SEE SPECIFICATIONS.	
	LOCKERS, CFCI, SEE SPECIFICATIONS.	
	BENCH, OFOI.	
	SELF SERVE KIOSK, OFOI.	
	DONOR WALL, ALL ITEMS PLAQUES ETC, OFOI.	
	GAMING CABINET, OFOI.	
	CART, OFOI.	
	TIERED BOOK DISPLAY, OFOI.	
	BULLETIN BOARD, OFCI.	
	I-PAD TABLE, OFOI.	<u> </u>
	OPAC UNIT OFOL	

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E: BCOLEMAN@BRICPARTNERSHIP.COM

ARCHITECT OF RECORD:

JOHN EDWARD MUELLER

	ROOM SCHEDULE
NUMBER	NAME
100	VESTIBULE
101	CORRIDOR
102	WOMEN
103	MEN
104	STORAGE
105	COATS
106A	MEETING ROOM A
106B	MEETING ROOM B
107	CHILDREN AREA
108	ADULT AREA
109	TEEN AREA
110	CIRCULATION
111	WORK ROOM
112	OFFICE
113	STUDY
114	STUDY
115	MECH/ELEC
116	CORRIDOR
117	STORAGE
118	BREAK ROOM
119	JANITORS CLOSET
120	BOOK DROP

No.	Date	Description
	06/13/17	ISSUED FOR RE-BI

PROJECT NUMBER: 16-1161.04

SHEET TITLE: FURNITURE PLAN - FIRST FLOOR

DESIGN CRITERIA:

A. CODES AND STANDARDS:

2003 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:

DESIGN BASE SHEAR: V = 40K

SEISMIC IMPORTANCE FACTOR: I = 1.0 MAPPED SPECTRAL RESPONSE ACCELERATIONS: Ss = 56.5 / S1 = 16.6% SITE CLASS: C SPECTRAL RESPONSE COEFFICIENTS: Sds = 44.2% / Sd1 = 18.1% 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 = 3SEISMIC RESPONSE COEFFICIENT: Cs = 0.147

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 JUNE 2015.

# 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 OR REMEDIATED EXPANSIVE CLAY SOILS CAPABLE OF SUSTAINING A NET BEARING PRESSURE OF 2200 PSF AND 1800 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 FROST PROTECTION.

# FOUNDATION / RETAINING WALLS:

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

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

3. PASSIVE DESIGN PRESSURE IS EQUAL TO AN EQUIVALENT FLUID PRESSURE OF 250 PCF

4. SURCHARGE LOADS ARE 100 PSF AT THE SURFACE.

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:

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

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.

0. 2.0	JEO 10		O, 1 y	00,000									
	STANDARD TENSION LAP SPLICE, GRADE 60												
	CLASS A and B LAP SPLICE LENGTH (INCHES)												
	f'c = 3,000 P.S.I. f'c = 4,000 P.S.I. f'c = 5,000 P.S.I.												
BAR	CLASS	,	4	E	3	,	4		В	1	4	ŀ	3
SIZE	CASE	1	2	1	2	1	2	1	2	1	2	1	2
#3		16	25	21	32	14	21	18	28	13	19	17	25
#4		22	33	28	43	19	28	25	37	17	25	22	33
#5		27	41	36	53	24	36	31	46	21	32	28	41
#6		33	49	43	64	28	43	37	55	25	38	33	50
#7		48	72	62	93	42	62	54	81	37	56	48	72
#8		55	82	71	107	47	71	62	92	42	64	55	83
#9		62	93	80	120	54	80	70	104	48	72	62	93
#10		70	104	90	136	60	90	78	117	54	81	70	105
#11		77	116	100	151	67	100	87	130	60	90	78	117

"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		7,1522 110 120.				
LAP LENGT	H (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	5. FOR EPOXY COATED REINFORCEMENT, MULTIPLY LENGTHS IN TABLE BY 1.5 FOR COVER LESS THAN 3db OR CLEAR SPACING				
#10	37	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 @

INCHES) BUT NOT OVER 18"O.C.

D. SLABS: #5 EACH WAY TOP AND BOTTOM. SPACING IN INCHES = 100/(SLAB THICKNESS IN

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

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

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

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

# STRUCTURAL STEEL:

1. STEEL SHALL CONFORM TO THE FOLLOWING GRADES:

ALL WIDE FLANGE (U.N.O.): A992 GRADE 50 (Fy=50) ALL CHANNEL, ANGLE, BASE PLATES, CONNECTION. PLATES (U.N.O.): A36 (Fy=36) STRUCTURAL PIPE: A53 (Fy=35) STRUCTURAL HSS RECTANGULAR TUBE: A500 GRADE B (Fy=46) STRUCTURAL HSS ROUND TUBE: A500 GRADE B (Fy=42)

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

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

A. ALL PLATE DIMENSIONS AND GRADES.

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

C. ALL HOLE SIZES AND SPACINGS.

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

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

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

# STRUCTURAL STEEL (CONT)

4. CONNECTION DESIGN FORCES

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

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

# 15 KIPS

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

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

D. CONNECTION FORCE NOTATION:

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

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:

T = TORSION IN FOOT KIPS

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.

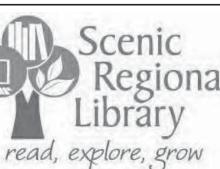
12. FABRICATE ALL BEAMS WITH THE MILL CAMBER UP.

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.



A P MO

**GIO** 

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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: 16021

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 HOLE
- 7. INJECTION OF ADHESIVE SHALL BE PREFORMED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS ACCOMPANYING PRODUCT AND APPLICABLE ICC-ESR TO PRODUCE AN AIR-VOID FREE INJECTION.
- 8. ALTERNATE DRILLING METHODS, SUCH AS DIAMOND CORING, MUST BE APPROVED BY THE ENGINEER OF RECORD AND COMPLY WITH THE APPLICABLE ICC-ES REPORT.
- 9. SPECIAL CONDITIONS SUCH AS WATER SATURATED CONCRETE, WATER-FILLED HOLES, UNDERWATER AND OVERHEAD INSTALLATIONS MUST BE APPROVED BY THE ENGINEER OF RECORD AND COMPLY WITH THE APPLICABLE ICC-ES REPORT.
- 10. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE ICC-ES REPORT AND AS PRESCRIBED BY THE APPLICABLE BUILDING CODE.
- 11. FASTENING ELEMENTS (THREADED RODS, REBAR AND INTERNALLY THREADED INSERTS) MUST BE CLEAN, DRY AND FREE OF ANY OIL OR CONTAMINANTS.
- 12. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING HILTI PROFI SYSTEM.

# DEFERRED SUBMITTALS:

- 1. THE FOLLOWING PROJECT COMPONENTS REQUIRE DESIGN TO BE PROVIDED BY A QUALIFIED PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF THE PROJECT:
- A. CONNECTION DESIGN FOR BRACED FRAMES, MOMENT FRAMES, COLLECTOR BEAMS AND TYPICAL SHEAR CONNECTIONS.
- B. STRUCTURAL LIGHT GAUGE STEEL FRAMING CALCULATIONS AND DETAILS.

# MISCELLANEOUS:

- 1. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
- 2. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
- 3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
- 4. OPENINGS 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
- 6. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.
- 7. UNLESS OTHERWISE NOTED, FIRE PROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE PROOFING METHODS AND MATERIALS.
- 8. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.
- 9. CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD. EXPANSION JOINTS SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED TO ACCOMMODATE ANTICIPATED THERMAL MOVEMENT AFTER THE BUILDING IS COMPLETE.
- 10. THE CONTRACTOR SHALL INFORM THE ARCHITECT IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS HE HAS SPECIFICALLY INFORMED THE ARCHITECT OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
- 11. ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS, OR AMBIGUITIES, IN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. PLANS AND/OR SPECIFICATIONS WILL BE CORRECTED, OR WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGUITY WILL BE MADE BY THE ARCHITECT BEFORE THE AFFECTED WORK PROCEEDS.
- 12. CHECK ALL DIMENSIONS AGAINST REQUIREMENTS OF OTHER CONTRACT DOCUMENTS. FIELD VERIFY DIMENSIONS RELATING TO EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS AND FABRICATION.
- 13. WHERE DIMENSIONS OR WEIGHTS OF EQUIPMENT OR SYSTEMS ARE VARIABLE FROM MANUFACTURER TO MANUFACTURER, VERIFY DIMENSIONS AND WEIGHTS SHOWN ON DRAWINGS WITH SELECTED MANUFACTURER PRIOR TO ORDERING MATERIALS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES.
- 14. DO NOT PLACE EQUIPMENT WHEN SHIPPING OR OPERATING WEIGHT EXCEEDS WEIGHT INDICATED ON STRUCTURAL DRAWINGS.
- 15. NO MODIFICATION, ALTERATION OR REPAIR SHALL BE MADE WITHOUT PRIOR REVIEW BY STRUCTURAL ENGINEER. SUBMIT DETAILS AND CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN STATE WHERE PROJECT IS LOCATED AND EMPLOYED BY CONTRACTORS.
- 16. VERIFY ELEVATOR AND ESCALATOR PIT DIMENSIONS, LOCATIONS, LOADINGS AND DETAILS WITH SUPPLIERS PRIOR TO THE FABRICATION AND/OR INSTALLATION OF ANY MATERIAL.

# SPECIAL INSPECTION:

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

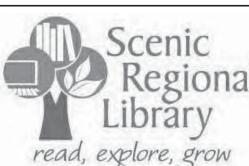
TYPE OF CONSTRUCTION	IBC SECTION	IBC TABLE			
INSPECTION OF FABRICATOR	1704.2	-			
STRUCTURAL STEEL CONSTRUCTION	1704.3	1704.3			
CONCRETE	1704.4	1704.4			
SOILS	1704.7	-			
ADUESIVE ANGUADE SHALL BE INSPECTED DED THE DEALIDEMENTS IN THEIR ICC ES DEDARTS					

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.



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ACIFIC BRANCH
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<u>G10</u>

Illecture Interior design

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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
I			

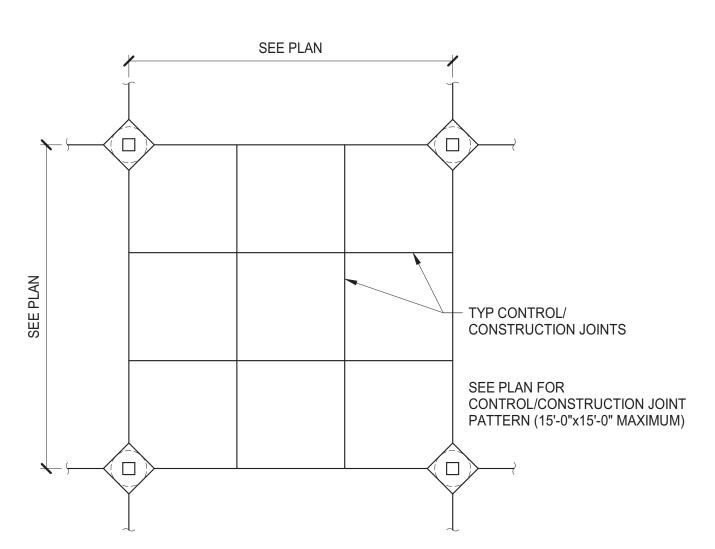
DRAWN BY: **TRN** 

PROJECT NUMBER: 16021

SHEET TITLE:

GENERAL NOTES

S-101



TYPICAL SLAB CONTROL AND CONSTRUCTION JOINT DETAIL S-102 N.T.S.

- 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 **CONTROL JOINT** 

2 TYPICAL SLAB ON GRADE DETAIL

CLASS "A"

S-102 N.T.S.

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

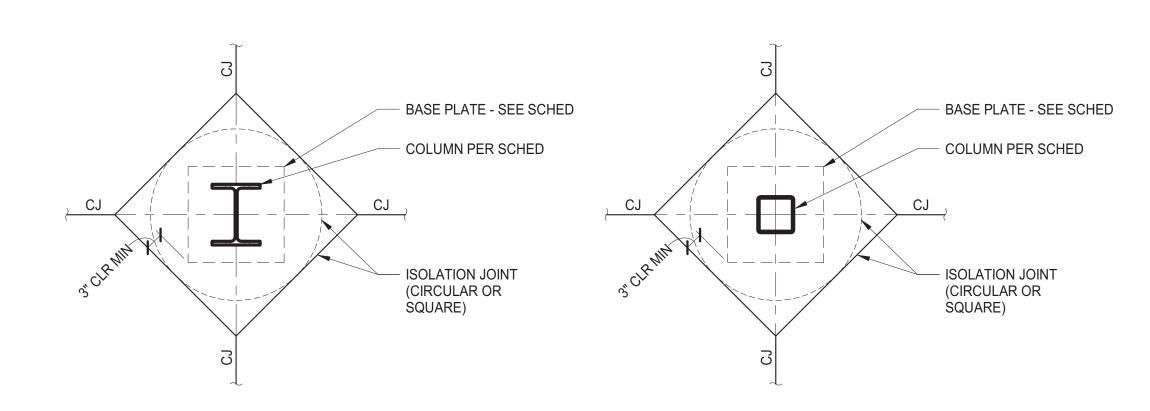
2. SAW CUTTING OF JOINTS SHALL BE DONE AS THE CONCRETE SETS SUFFICIENTLY TO PERMIT CUTTING WITHOUT CHIPPING, SPALLING OR TEARING, BUT NOT MORE THAN 24 HOURS AFTER PLACING.

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",

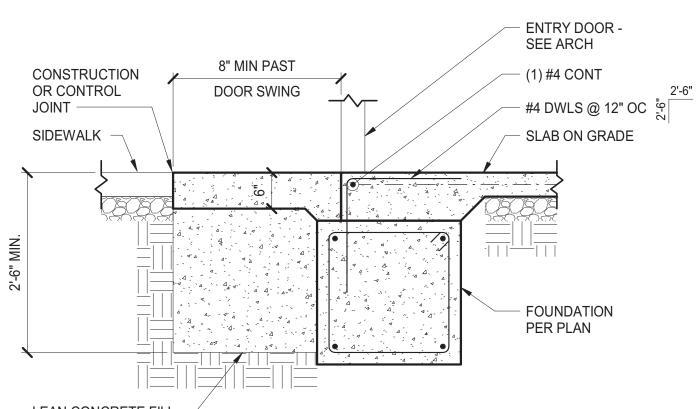
> 5. 1 1/2" IF "D" IS LESS THAN OR EQUAL TO 9", D/3 IF "D" IS GREATER THAN 9", D/3 IF REINFORCED.

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.



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

CLASS "A"



LEAN CONCRETE FILL 4 SLAB FROST HEAVE PREVENTION DETAIL
S-102 N.T.S.

OR 24" MIN OR 24" MIN OR 24" MIN OR 24" MIN CLASS OR 24" I ANGLE MAY VARY -- CONT KEY SEE PLAN - U-BARS AT OPNG DISCONTINUOUS LAP OUTSIDE BARS **ENDS OF WALLS** OR PROVIDE CORNER BARS AS SHOWN AT CORNERS AT OPENING AND END WALL AT INTERSECTIONS

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

S-102 N.T.S.

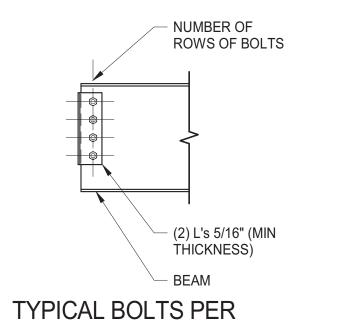
CLASS "A"

# BEAM CONNECTION SCHEDULE

BEAM SIZE	MINIMUM NUMBER OF ROWS OF 3/4"Ø A-325N BOLTS (UNO)
W8 AND W10	2
W12 AND W14	3
W16	4
W18	5
W21	6
W24	7
W30	8
W33	9

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

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



CONNECTION DETAIL

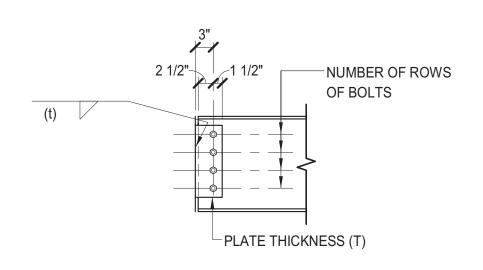
NUMBER OF ROWS OF BOLTS
(2) L's 5/16" (MIN THICKNESS)
— BEAM

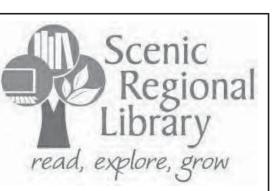
TYPICAL SINGLE SHEAR TAB CONNECTION DETAIL S-102 3/4" = 1'-0"

BEAM CONNECTION SCHEDULE					
BEAM SIZE	MINIMUM NUMBER OF ROWS OF 3/4"Ø A-325N BOLTS (UNO)	WELD SIZE (IN) MINIMUM	PLATE THICKNESS (T) (IN) MINIMUM		
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:

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





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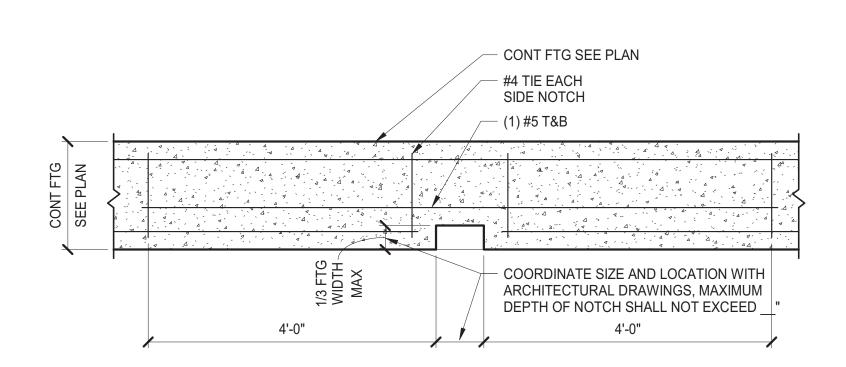
STEVEN J. EHRETT MO STRUCTURAL LICENSE E-29025 MO CERTIFICATE OF AUTHORITY 000287

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

DRAWN BY: TRN

PROJECT NUMBER: 16021

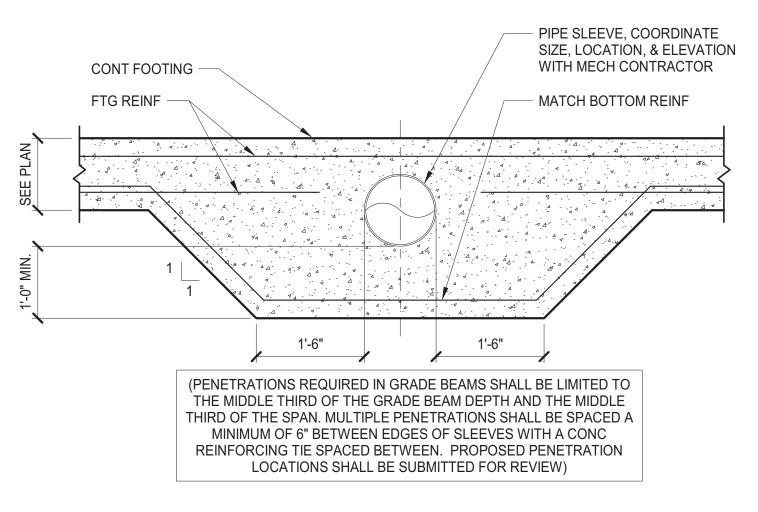
SHEET TITLE: TYPICAL DETAILS



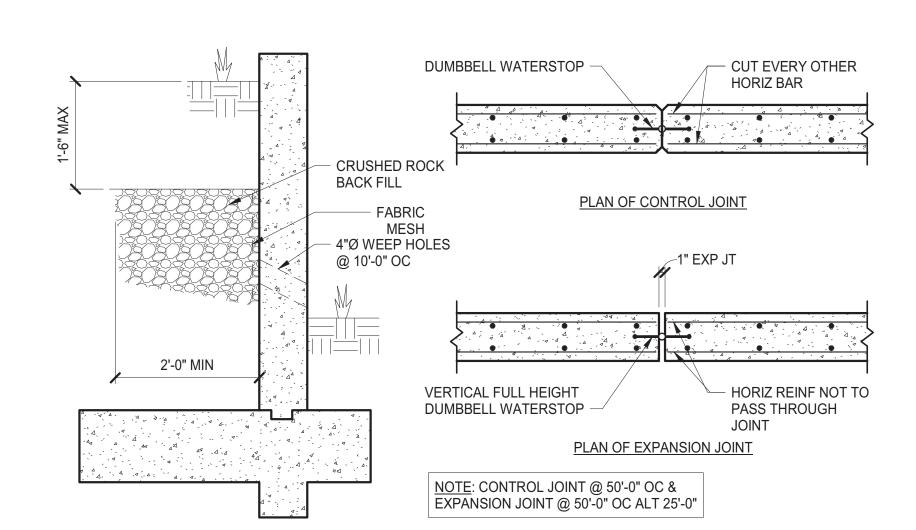
TYPICAL DOWN SPOUT

NOTCH AT CONTINUOUS FOOTING DETAIL

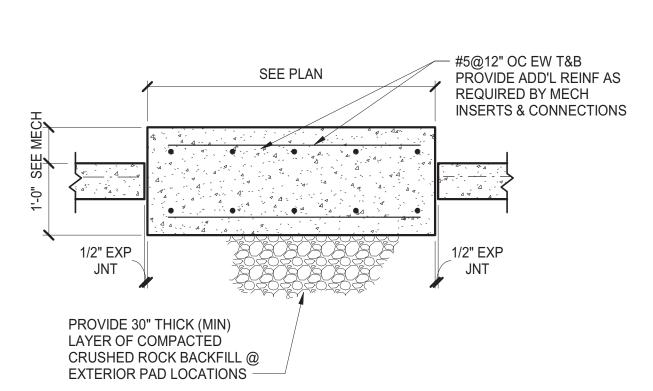
S-103 N.T.S.



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

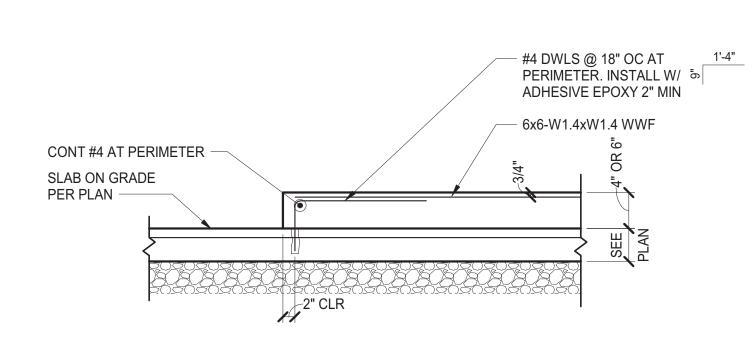


3 TYPICAL RETAINING WALL DETAILS
S-103 N.T.S.



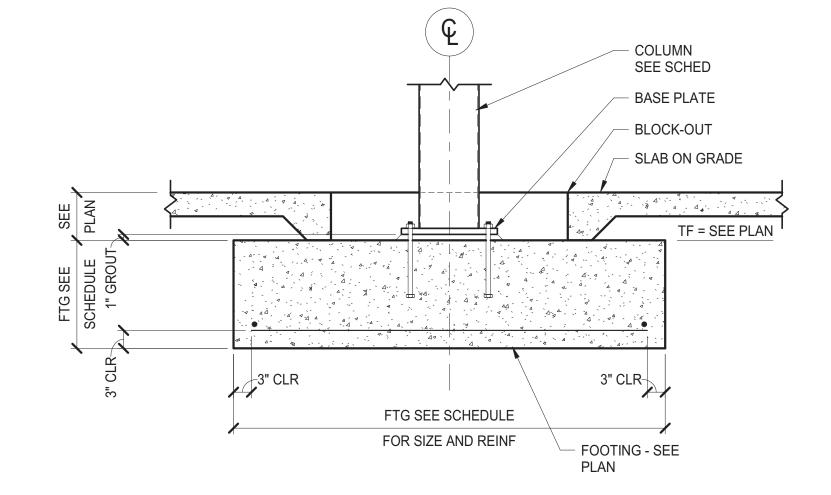
TYPICAL MECHANICAL PAD ON GRADE DETAIL

N.T.S.

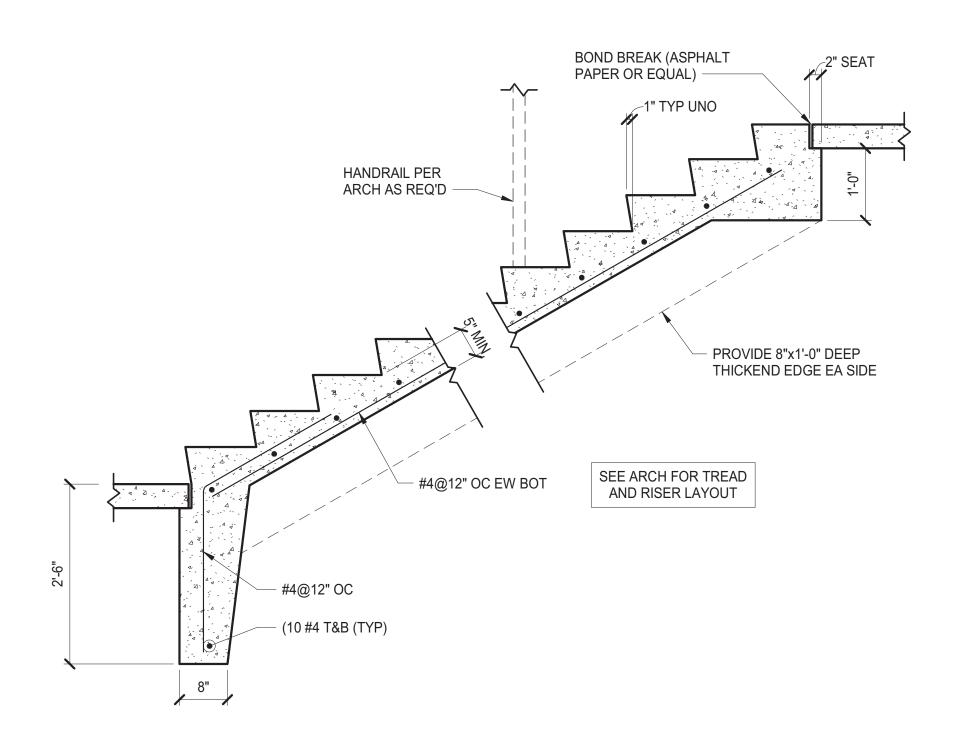


TYPICAL HOUSEKEEPING PAD ON CONCRETE SLAB ON GRADE

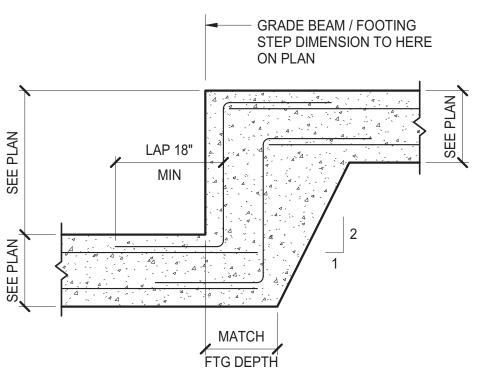
S-103 N.T.S.



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



7 TYPICAL INTERIOR OR EXTERIOR CONCRETE STAIR ON GRADE S-103 N.T.S.



TYPICAL STEP GRADE

8 BEAM OR FOOTING DETAIL

N.T.S.



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MECHANICAL, ELECTRICAL, PLUMBING
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ENGINEER OF RECORD:

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

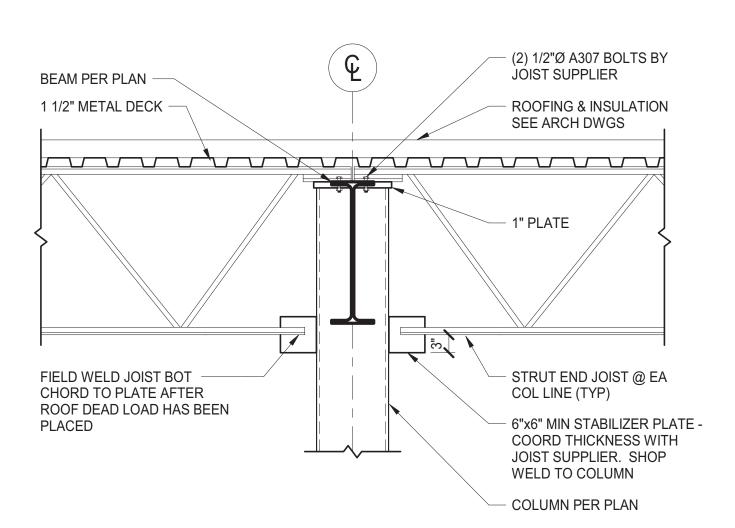
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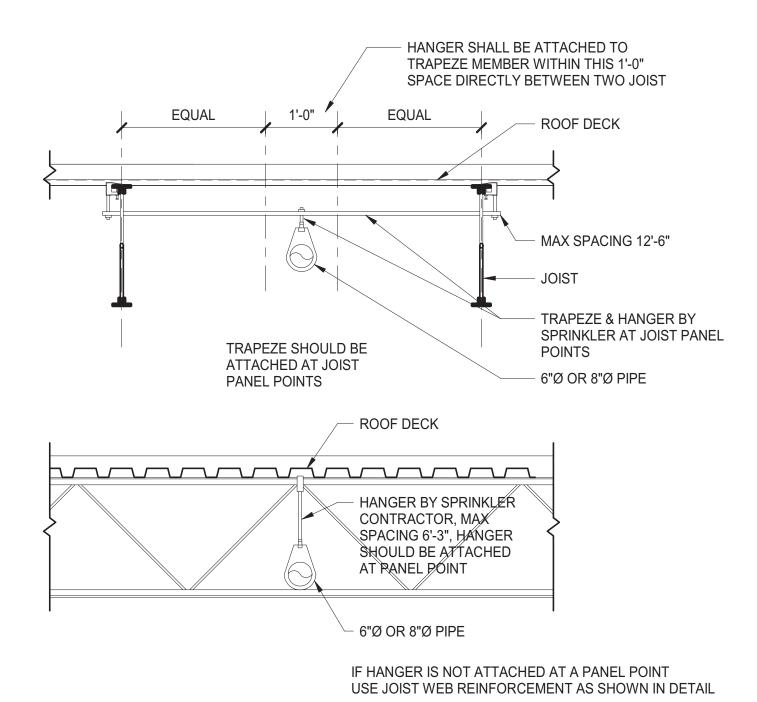
SHEET TITLE:

TYPICAL DETAILS

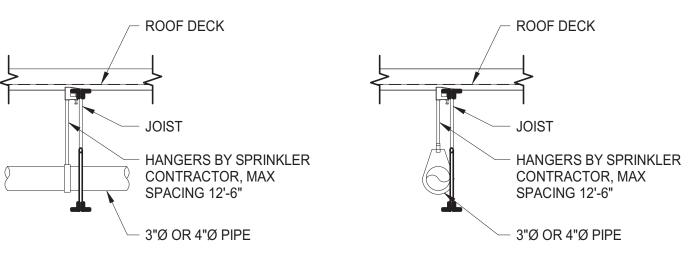
S-103



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



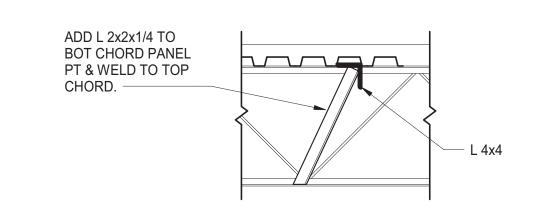
4 TYPICAL 6" DIA or 8" DIA SPRINKLER PIPES HANGER DETAIL



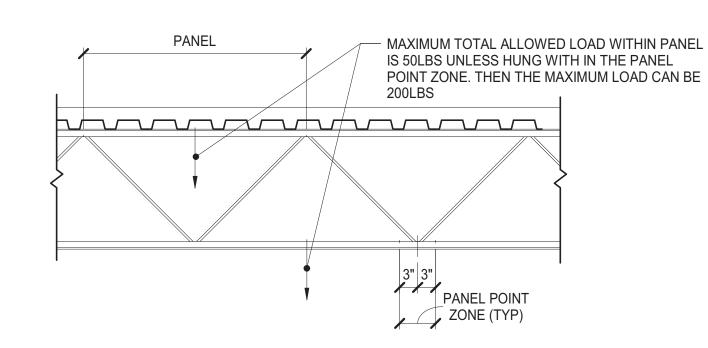
HANGERS SHALL BE ATTACHED AT JOIST PANEL POINTS OTHERWISE USE JOIST WEB REINFORCEMENT AS SHOWN IN DETAIL

ALL JOIST BRIDGING SHALL BE LOCATED SUCH THAT THE LEADING EDGE OF ANY BRIDGING MEMBER IS A MINIMUM OF 1'-0 (MEASURED HORIZONTALLY) FROM THE CENTER LINE OF ANY SPRINKLER LOCATED ABOVE THE BOTTOM CHORD OF BAR JOISTS. COORDINATE EXACT LOCATIONS OF BRIDGING WITH THE DIMENSIONAL INFORMATION SHOWN ON THE AUTOMATIC SPRINKLER CONSTRUCTION DRAWINGS PREPARED BY VARIATION FROM THIS MINIMUM CLEARANCE WILL BE PERMITTED.

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



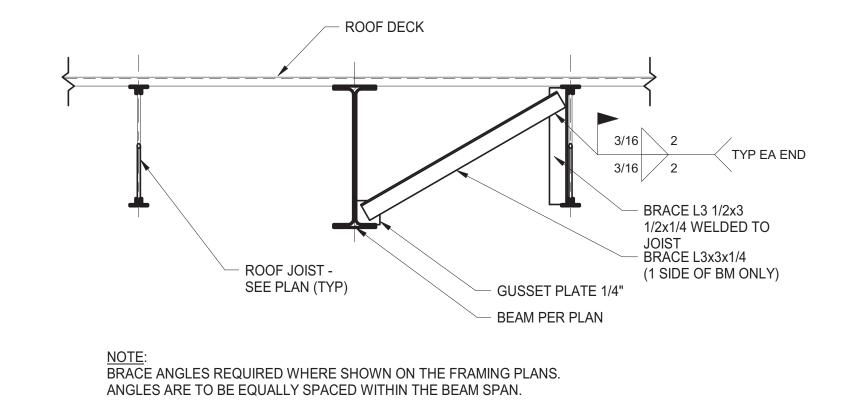
5 TYPICAL JOIST WEB REINFORCEMENT DETAIL



L4x4 CURB SUPPORT DOES NOT FALL AT TOP

CHORD PANEL POINT, ADD L2x2 AS SHOWN.

6 TYPICAL MISCELLANEOUS HANGERS DETAIL S-104 N.T.S.



TYPICAL BEAM BOTTOM

**FLANGE BRACING AT ROOF BEAMS** 

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

CONT L4x4x5/16 UNDER ROOF CURB - COPE VERT

LEG AT JOIST

HARDWOOD

TOP AND BOT

(2) L3x3x1/4 TO

HANGER ROD

RTU CURB

**BLOCKING UNDER** 

NUT AND WASHER

SÚPPORT SUSPENDED

HOODS AND EQUIP

6" LONG

ROOF DECK

HANGERS BY SPRINKLER

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.

CONTRACTOR, MAX

SPACING 15'-0"

- 2 1/2"Ø MAX PIPE

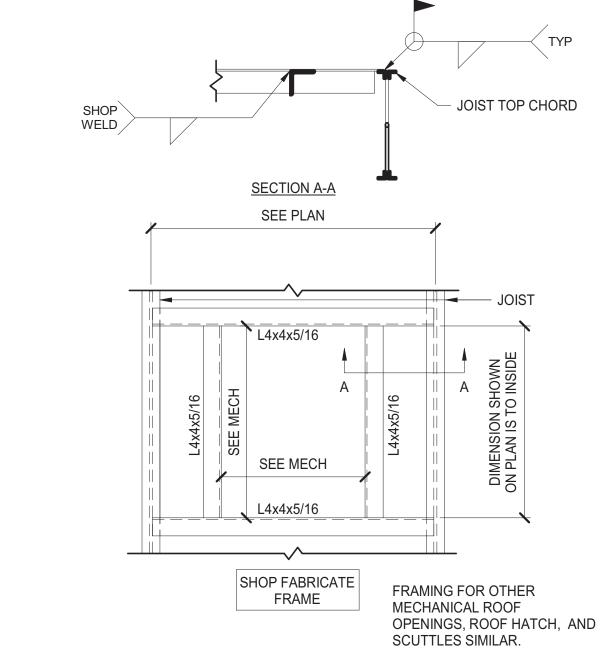
ROOF DECK

HANGERS BY SPRINKLER

CONTRACTOR, MAX

SPACING 12'-6"

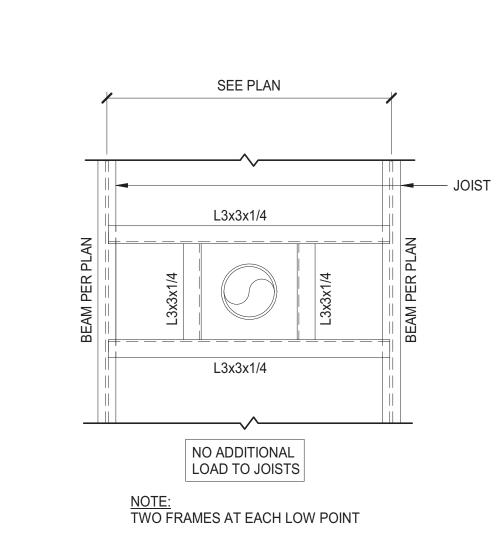
- 2 1/2"Ø MAX PIPE



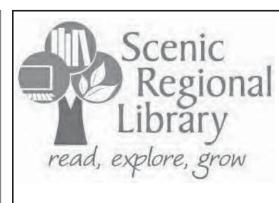
10 TYPICAL RTU ROOF FRAMING DETAIL

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

TYPICAL FRAME FOR



11 ROOF DRAIN AND OVERFLOW DETAIL S-104 3/4" = 1'-0" (OTHER OPENINGS SIMILAR)



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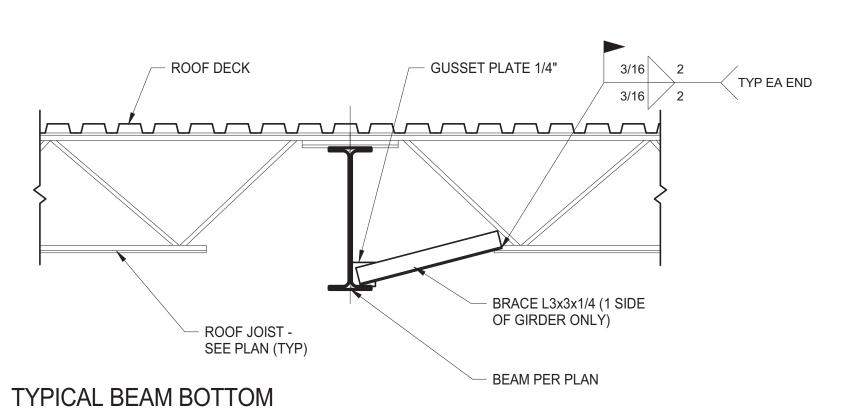
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PROJECT NUMBER: 16021

SHEET TITLE: TYPICAL DETAILS



FLANGE BRACING AT ROOF GIRDERS

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

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

**ROOF CURB** 

CONT SOLID

BLOCKING

HARDWOOD

**ROOF DECK** 

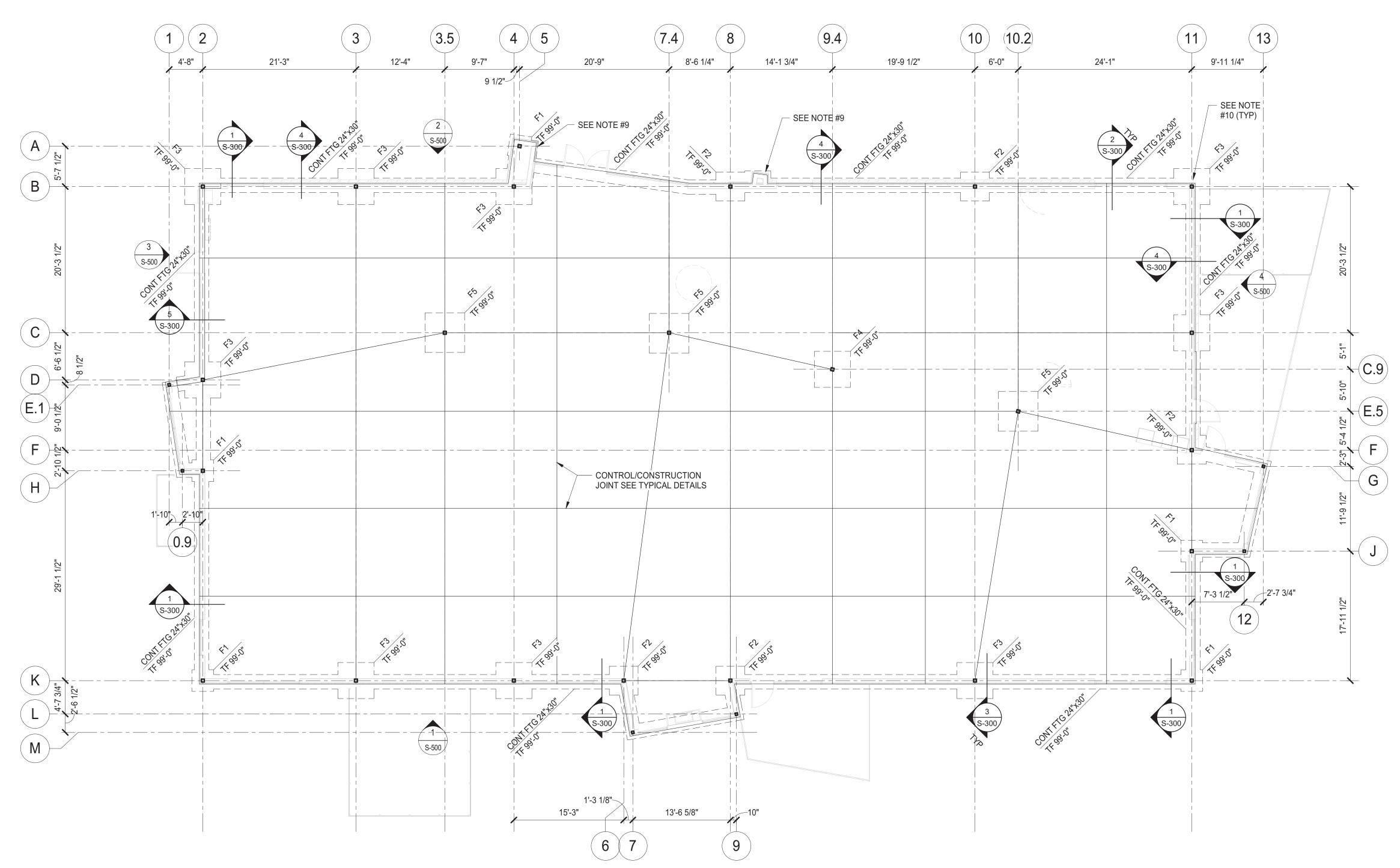
TOP CHORD

**BEAM OR JOIST** 

ADD (2) L2x2x1/4 TO

BOT CHORD PANEL

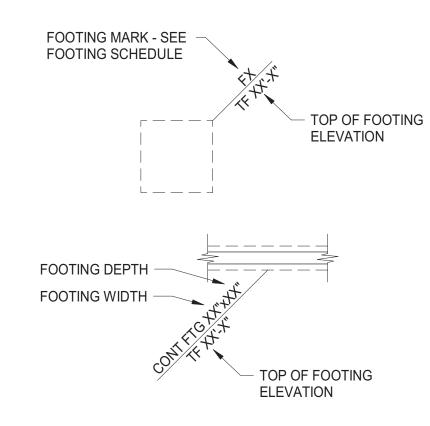
POINT AND WELD TO



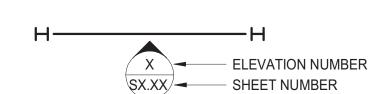


# **FOUNDATION NOTES:**

- 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 = 487.00).
- 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
- 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.

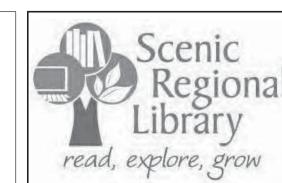


# TYPICAL FOOTING DESIGNATION



# 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					



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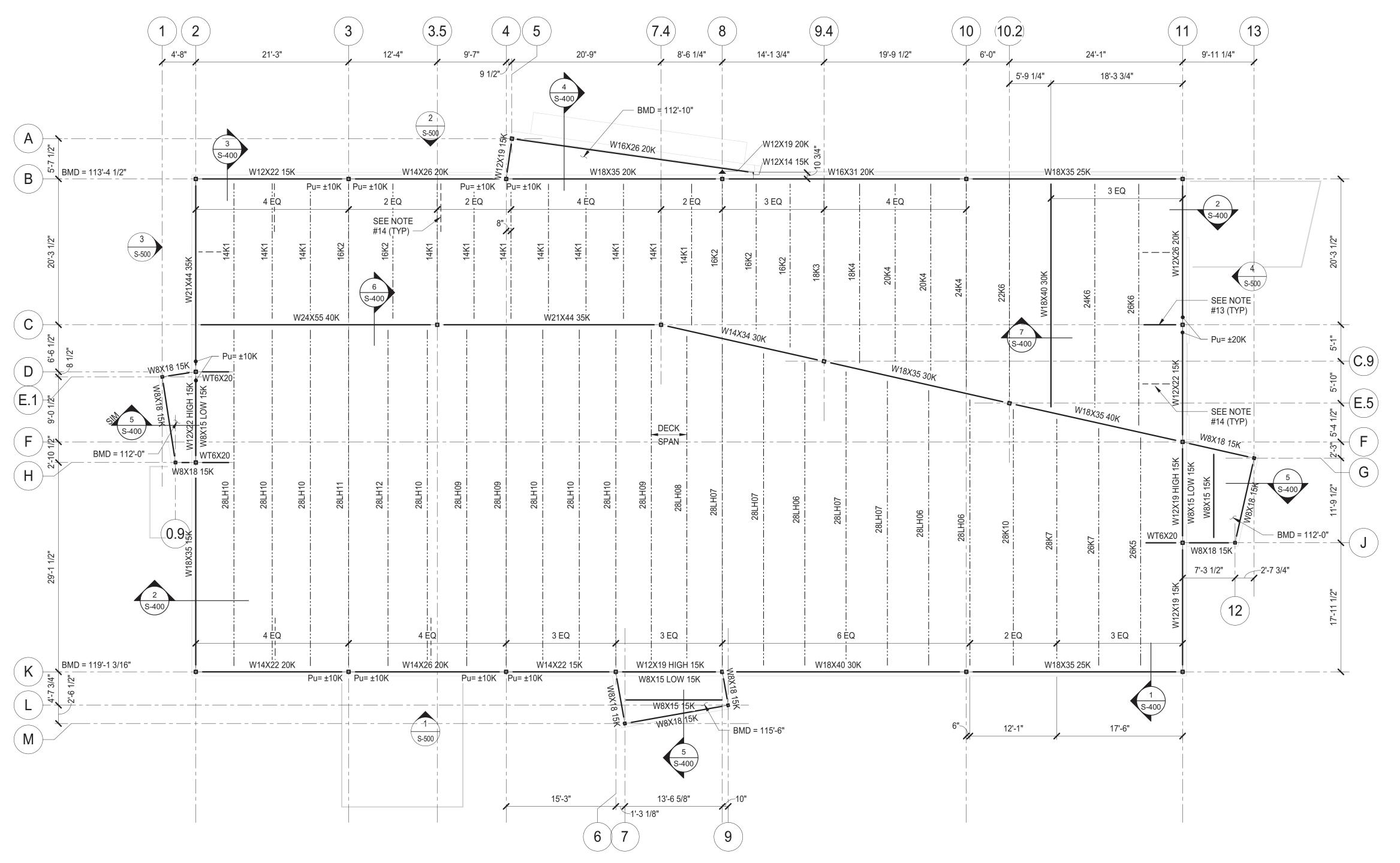
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SHEET TITLE:

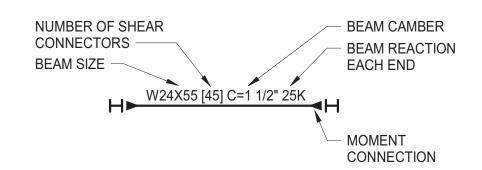
FIRST FLOOR FOUNDATION PLAN



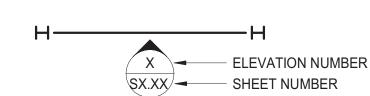
1 ROOF FRAMING PLAN
S-202 1/8" = 1'-0"

# FRAMING NOTES:

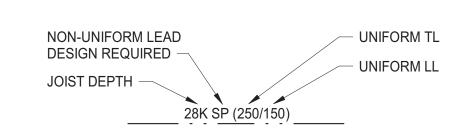
- 1. SEE SHEET SERIES S-100 FOR GENERAL NOTES AND TYPICAL DETAILS.
- 2. SEE SHEET SERIES S-500 FOR VERTICAL BRACING ELEVATIONS AND DETAILS.
- 3. SEE SHEET SERIES S-600 FOR COLUMN SCHEDULE AND BASE PLATE DETAILS.
- 4. SEE TYPICAL BEAM DESIGNATION FOR MOMENT CONNECTION SYMBOL.
- 5. SEE TYPICAL VERTICAL BRACING DESIGNATION FOR BRACING SYMBOL.
- 6. BOTTOM OF METAL DECK ELEVATION 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'-0" WIDE STRIP AROUND PERIMETER.
- 9. BEAM CONNECTIONS SHALL BE DESIGNED TO TRANSFER AXIAL LOADS NOTED "P=\_\_K" ON PLAN.
- 10. STRUT JOIST TO OCCUR ON ALL COLUMN CENTER LINES UNLESS NOTED OTHERWISE. SEE TYPICAL DETAILS.
- 11. PROVIDE HORIZONTAL JOIST BRIDGING SPACED PER LATEST 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.



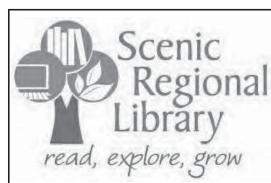
# TYPICAL BEAM DESIGNATION



# TYPICAL BRACING DESIGNATION



TYPICAL JOIST DESIGNATION



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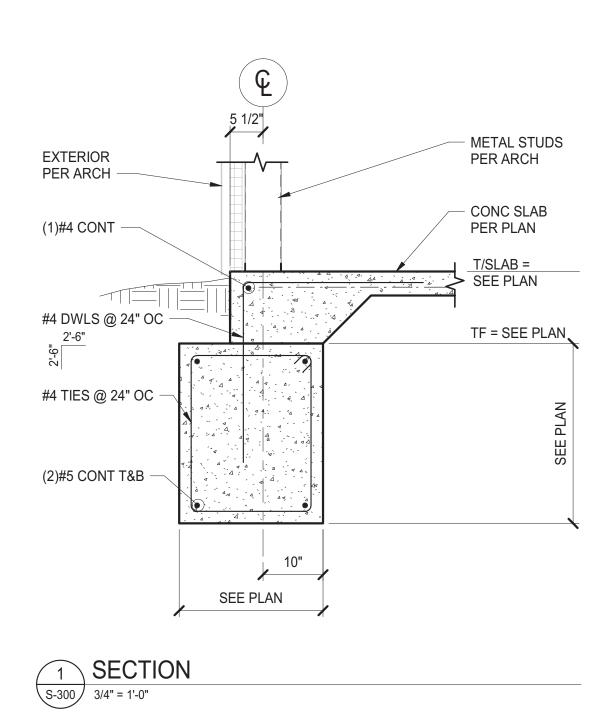
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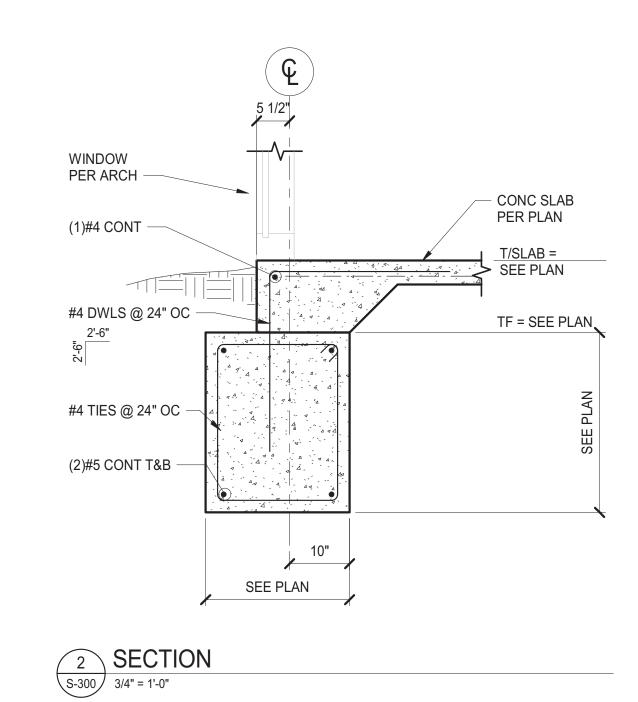
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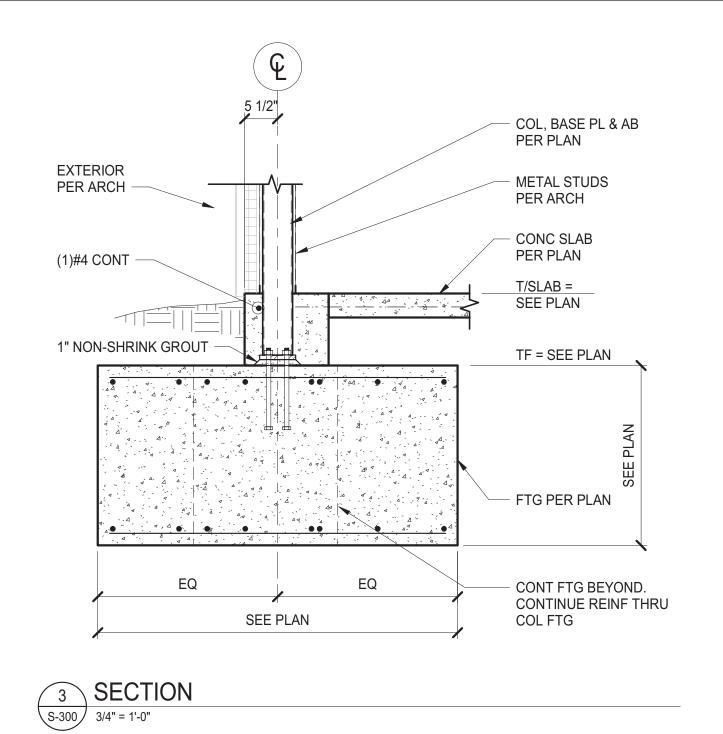
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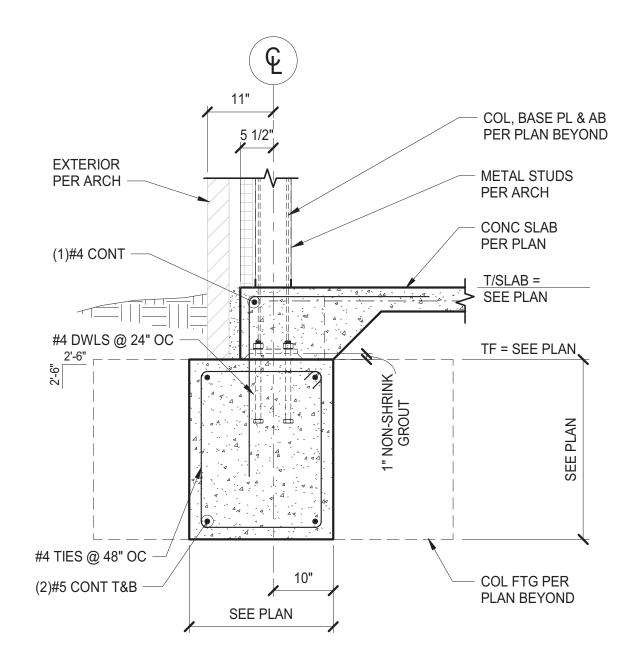
SHEET TITLE: ROOF FRAMING PLAN

S-202

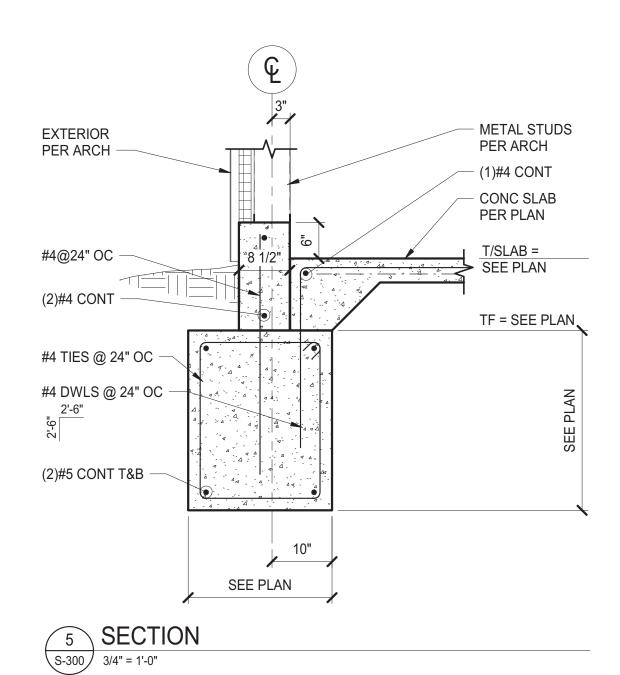














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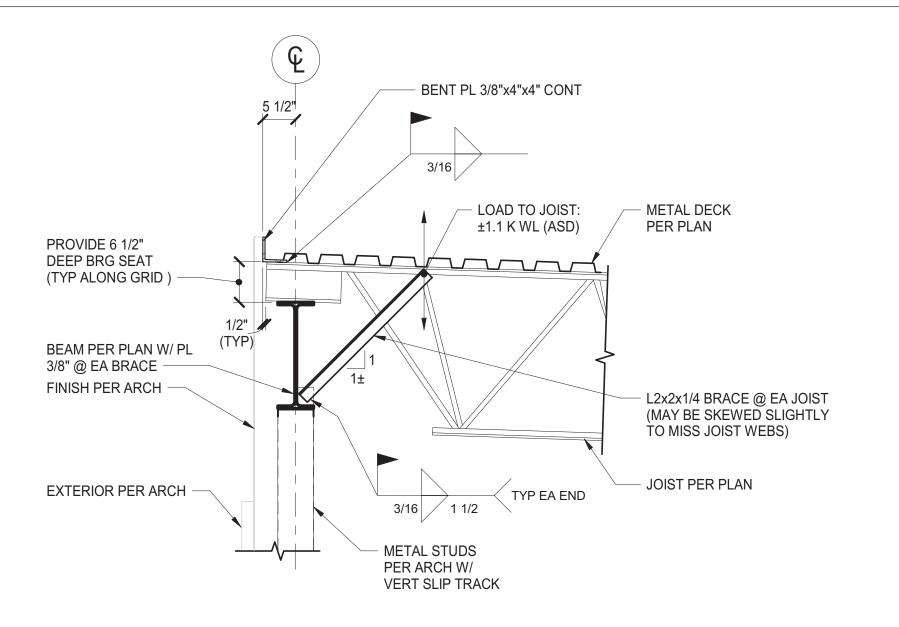
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SHEET TITLE:
FOUNDATION SECTIONS

PROJECT NUMBER: 16021

S-300

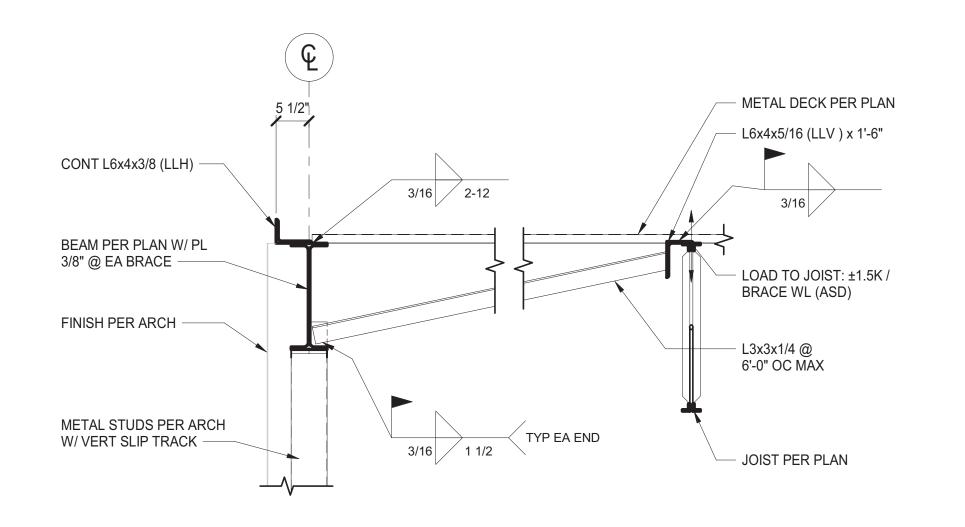


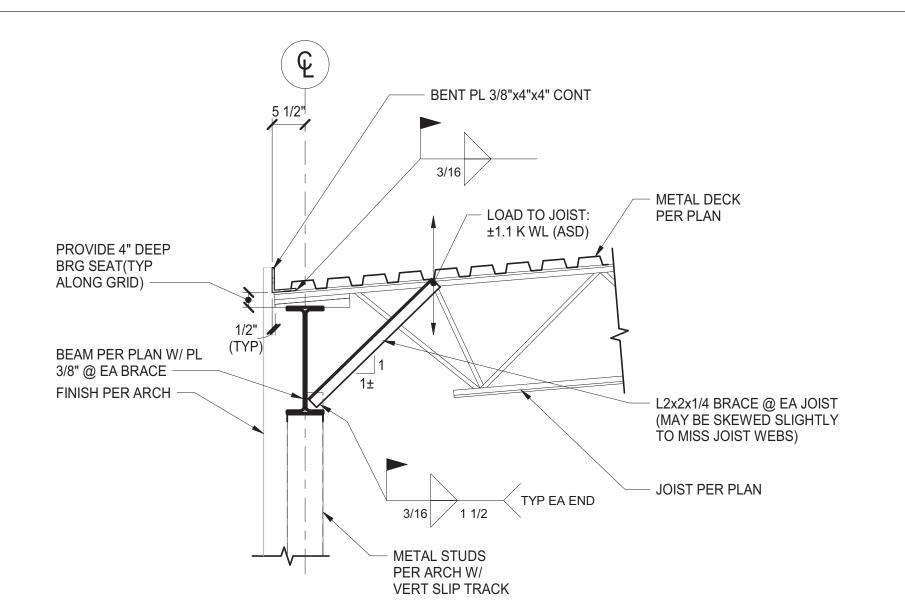
1 SECTION

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

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

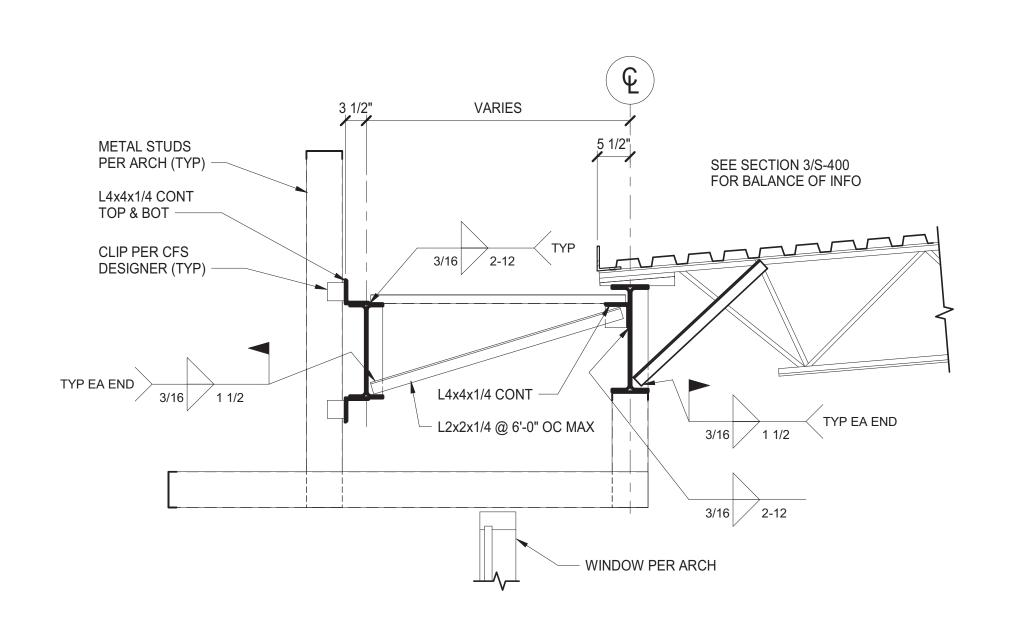
S-400 3/4" = 1'-0"

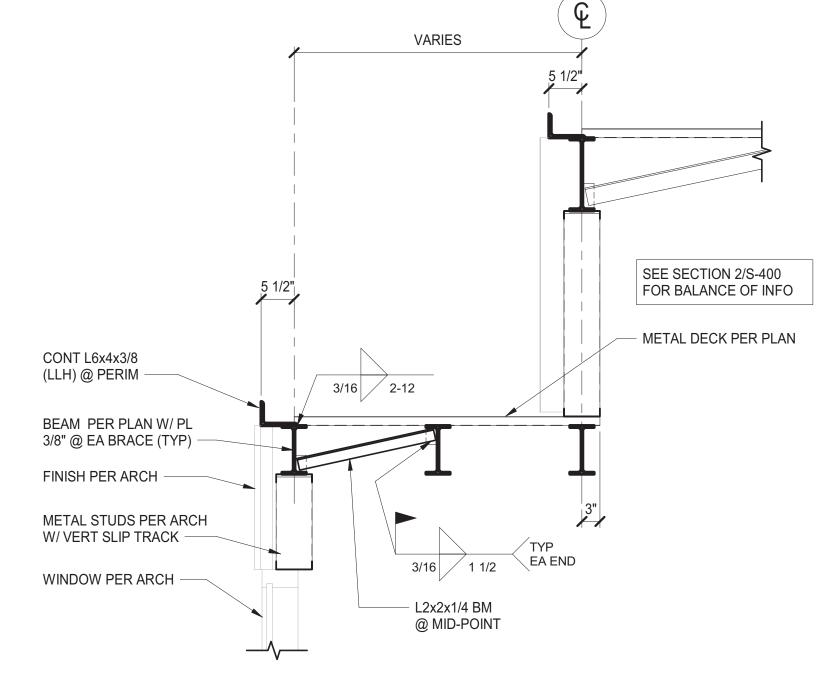


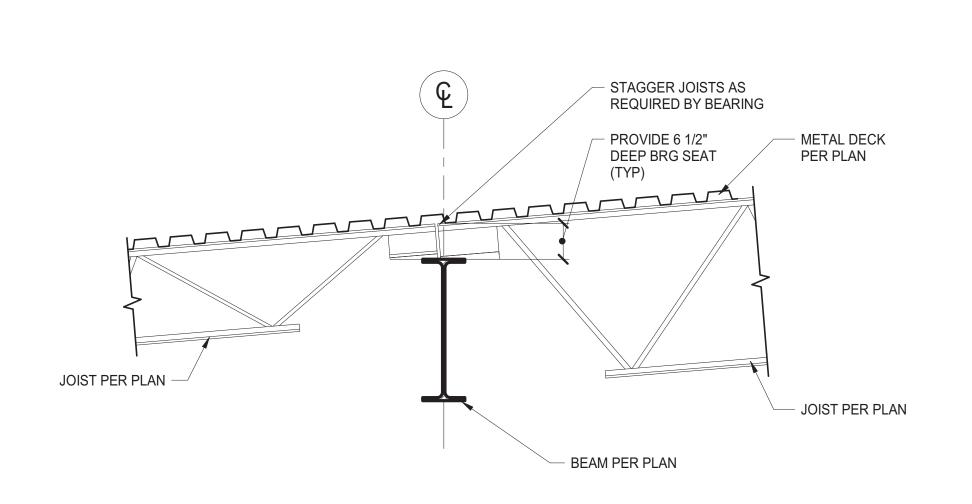








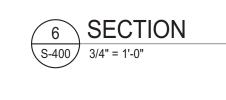


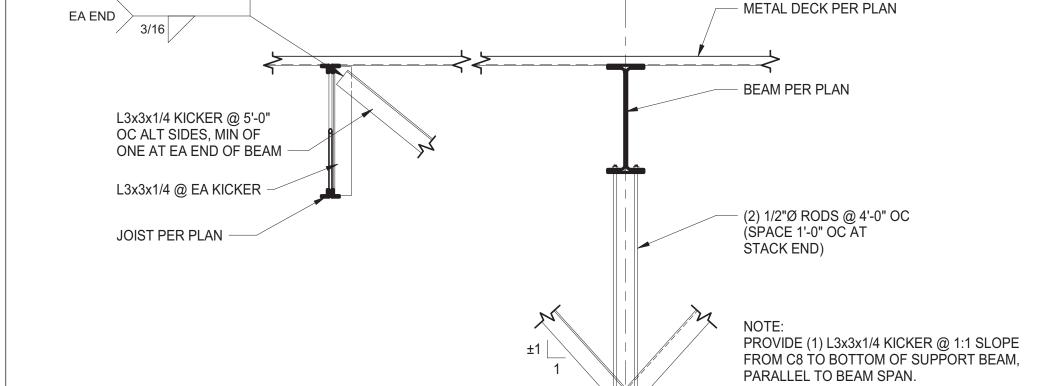


5 SECTION 3/4" = 1'-0"

<sup>2</sup> SECTION

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





B/STEEL COORD W/ ARCH & OPERABLE

WALL MANUF

- CONT C8x11.5

MAX OPERABLE WALL LOAD = 160 PLF TO CHANNEL BY OPERABLE WALL SUPPLIER

S-400

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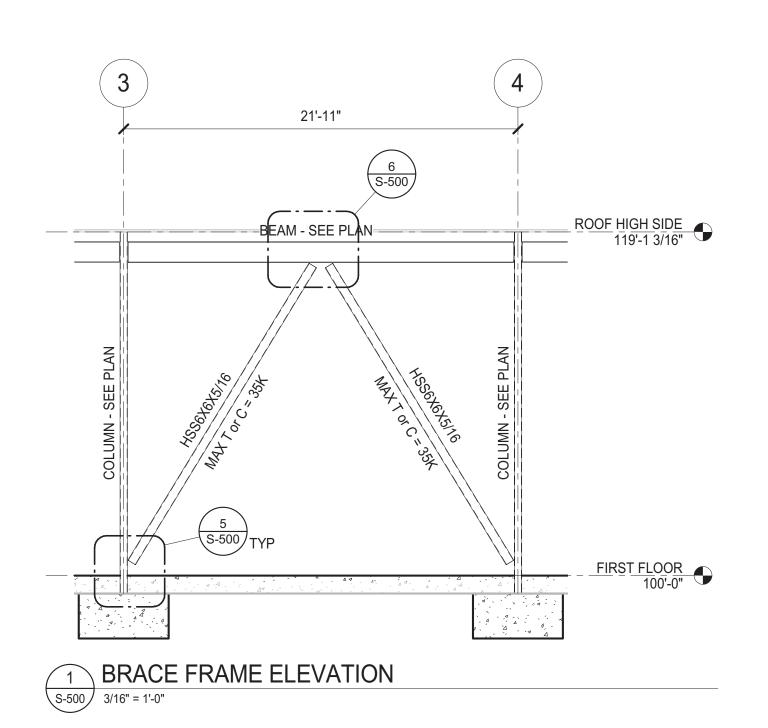
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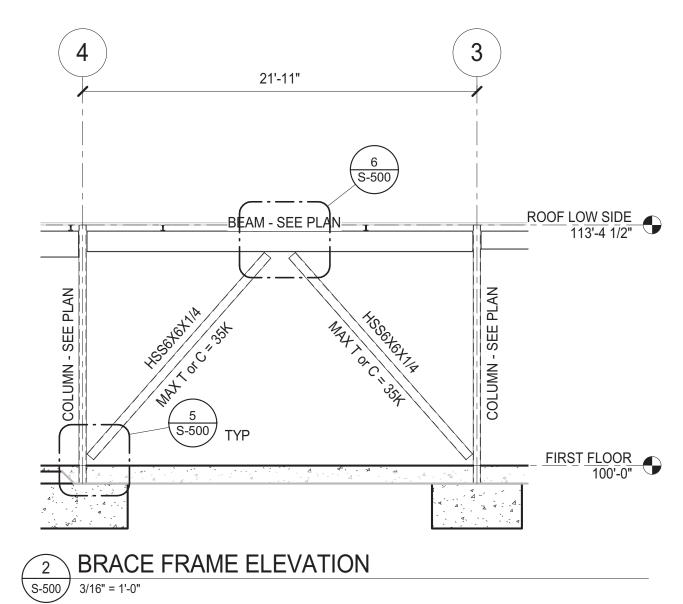
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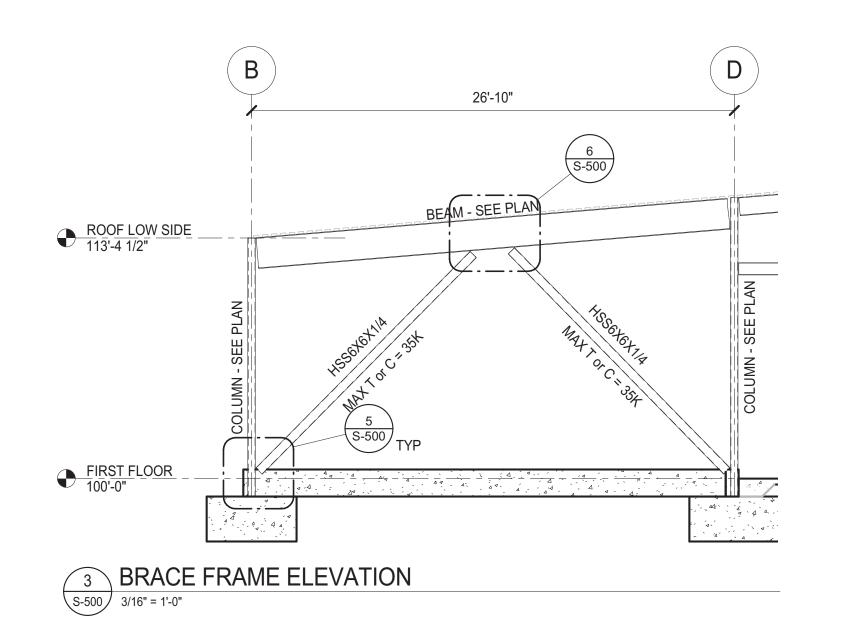
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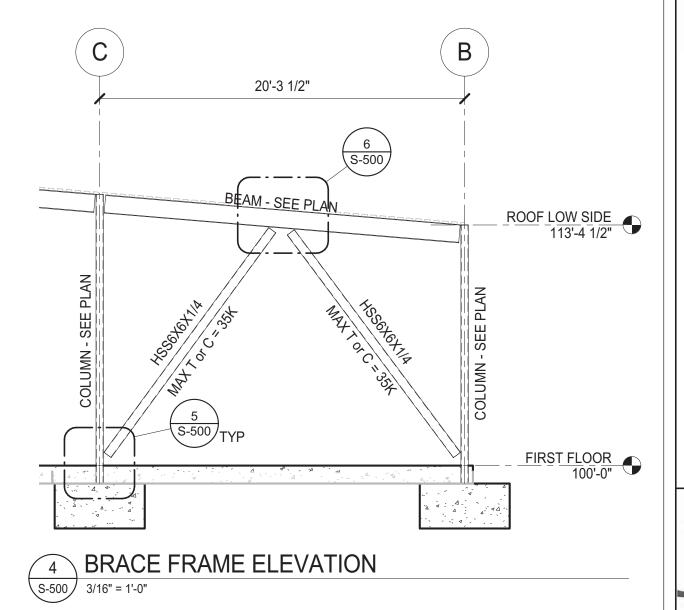
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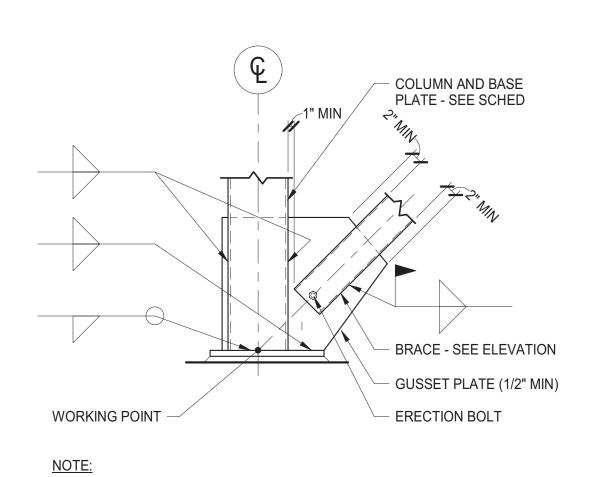
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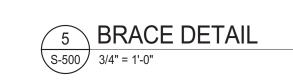


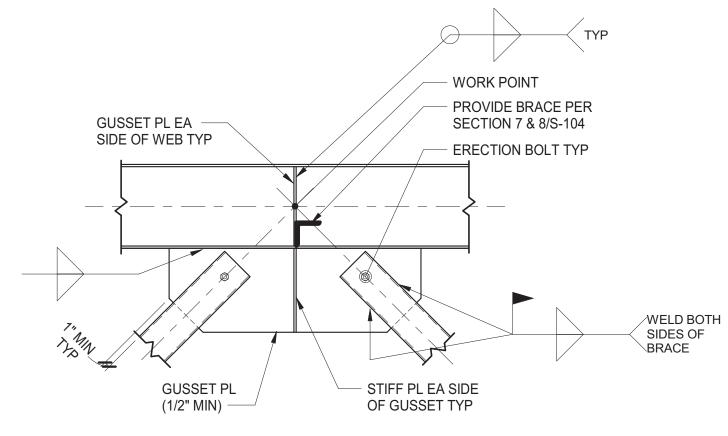




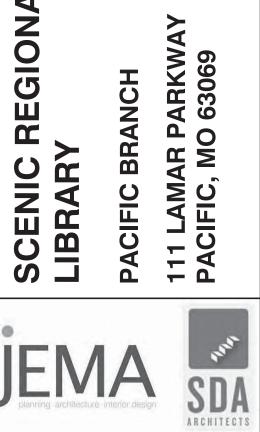


SEE BRACING ELEVATION FOR ORIENTATION OF GUSSET PLATE.





6 BRACE DETAIL S-500 3/4" = 1'-0"



read, explore, grow

REGIONAL

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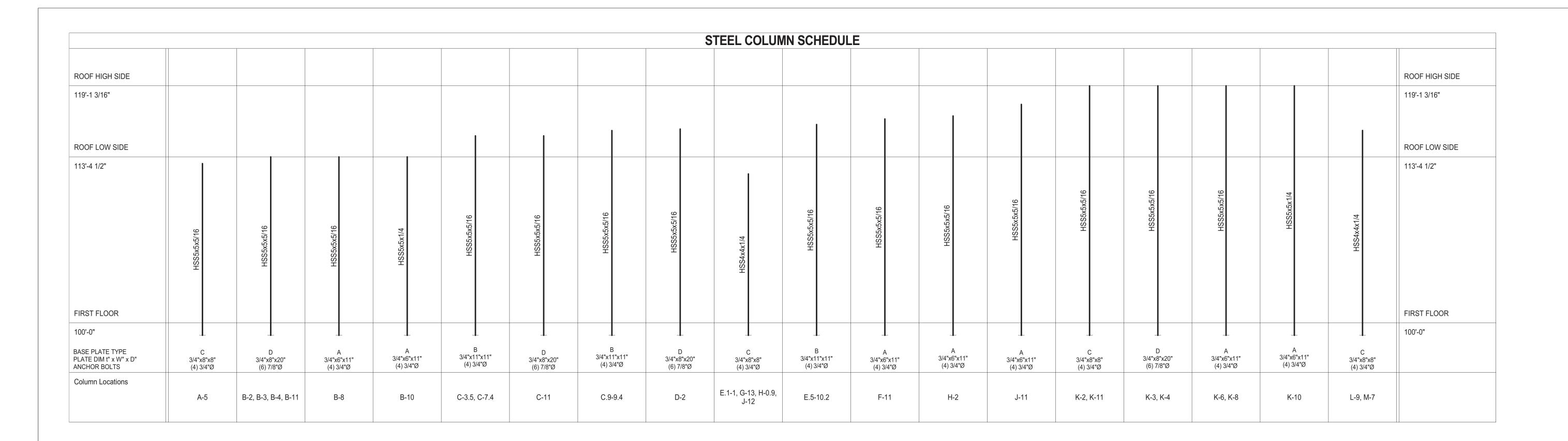
STEVEN J. EHRETT MO STRUCTURAL LICENSE E-29025 MO CERTIFICATE OF AUTHORITY 000287

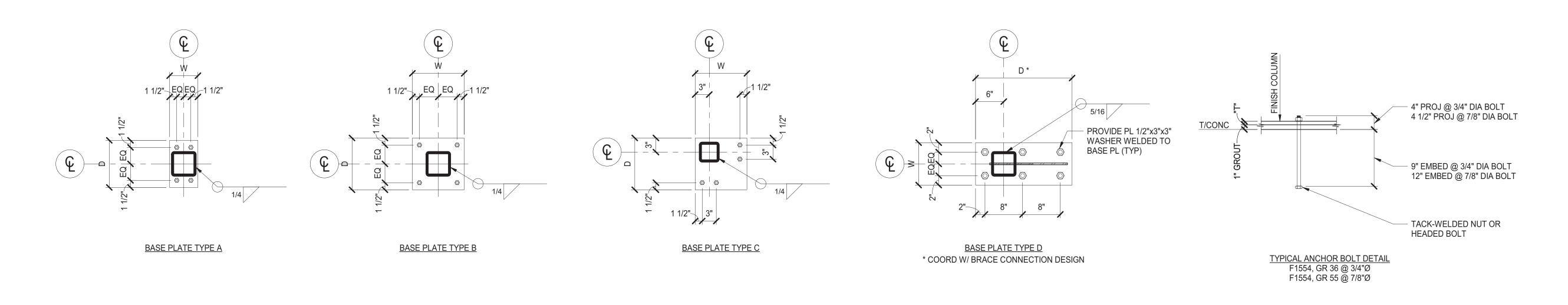
No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWN BY: **TRN** 

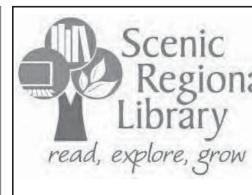
PROJECT NUMBER: **16021** 

SHEET TITLE: BRACE FRAME ELEVATIONS





TYPICAL BASE PLATE DETAILS



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ENGINEER OF RECORD:

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Date	Description
04/14/17	ISSUED FOR BID

DRAWN BY: **TRN** 

PROJECT NUMBER: **16021** 

SHEET TITLE:

COLUMN SCHEDULE & DETAILS

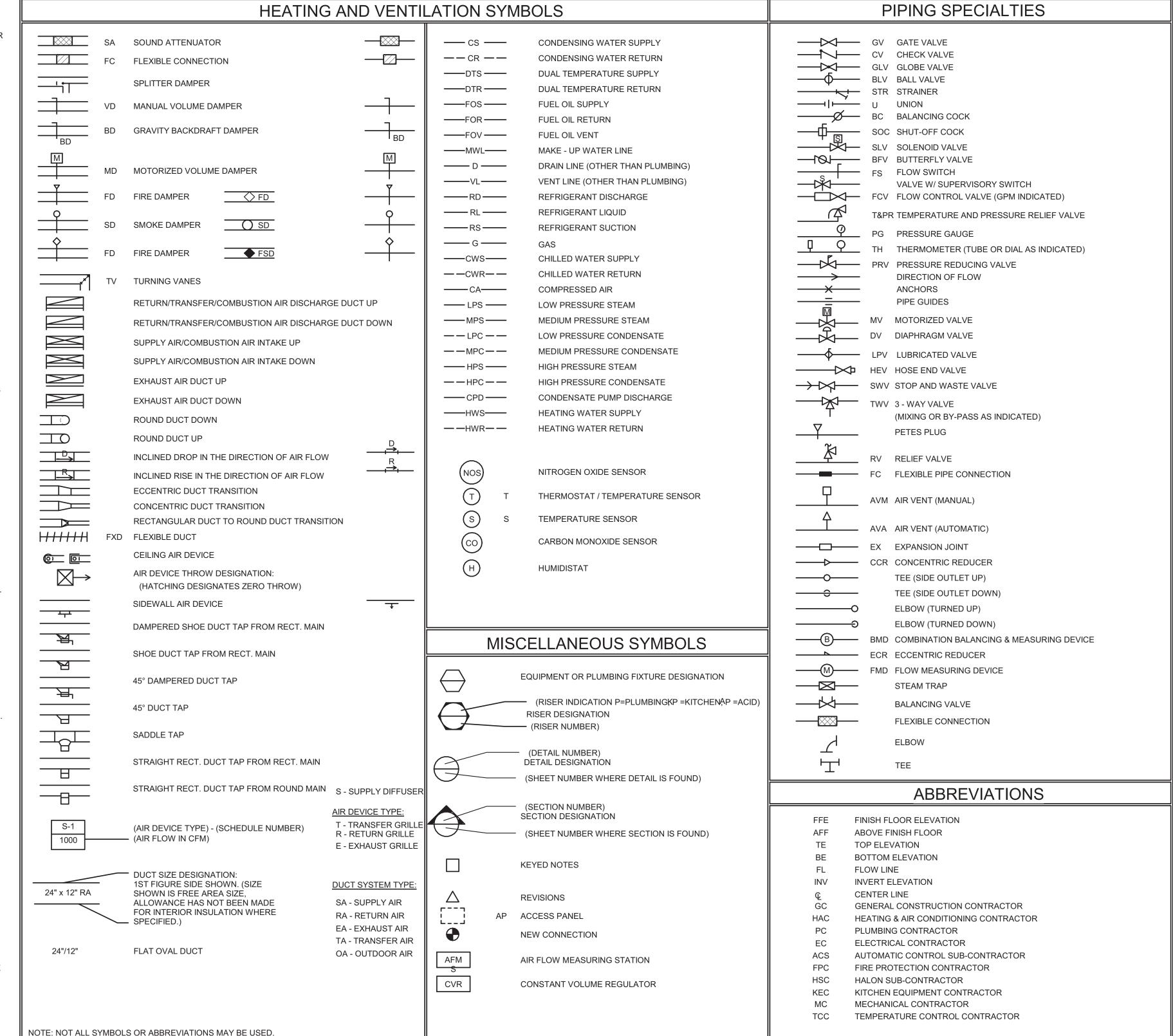
# **GENERAL NOTES**

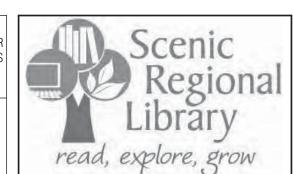
- 1. THE SPACE ALLOWED FOR MECHANICAL (HVAC, PLUMBING, FIRE PROTECTION) AND ELECTRICAL WORK ABOVE THE SUSPENDED CEILING IS CRITICAL AND REQUIRES COORDINATION BETWEEN TRADES. CONTRACTORS SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS PRIOR 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"
- 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 CODES.
- 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)**

- 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.
- 6. 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.
- 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.
- 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.

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MO. LICENSE NO. 2007002812
BRIC MO CERTIFICATE OF
AUTHORITY 2002028690

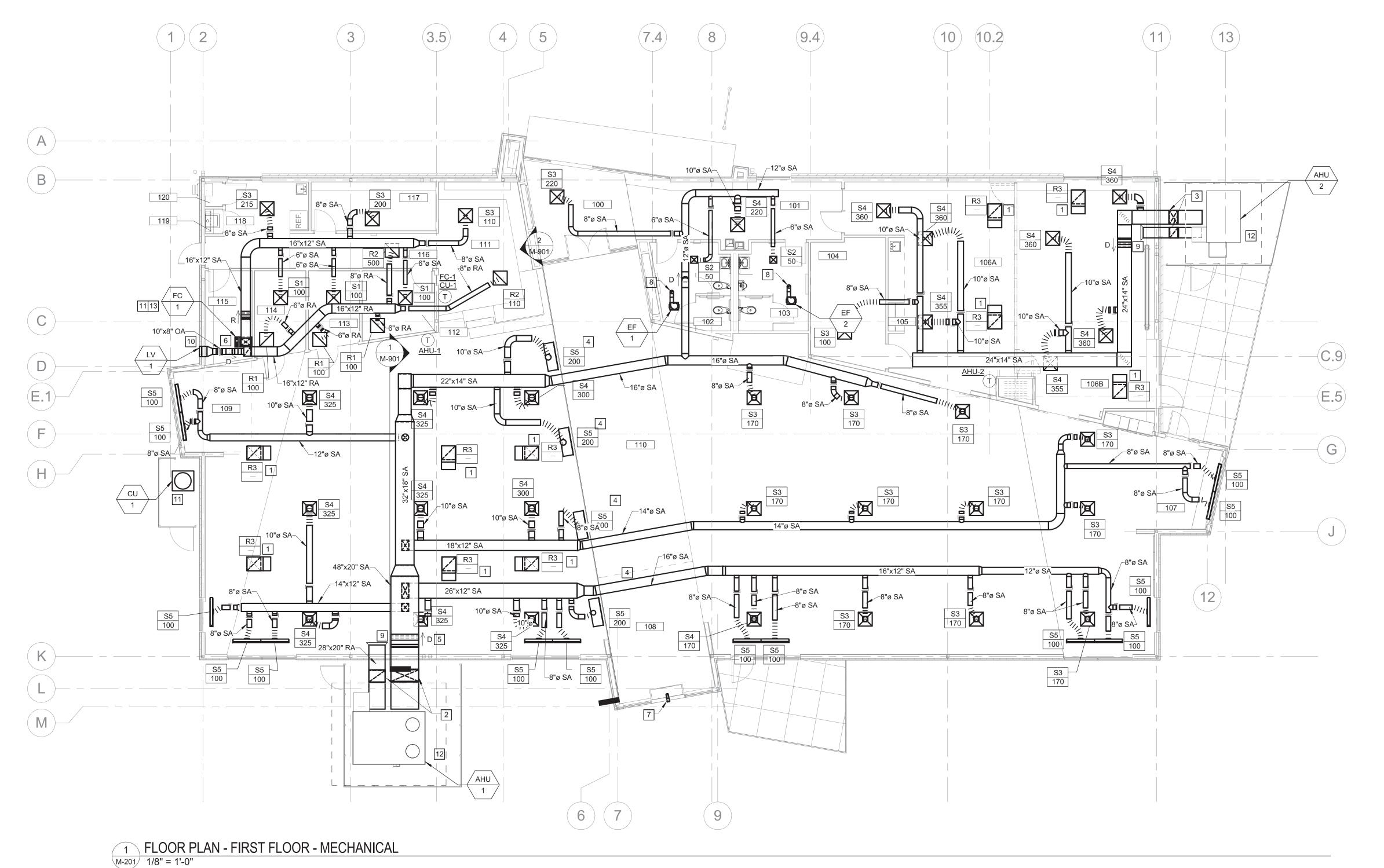
Date Description
04/14/17 ISSUED FOR BID

DRAWN BY: AMK

PROJECT NUMBER: 16-1161.04

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

M-001



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# **GENERAL NOTES**

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

# **KEYED NOTES**

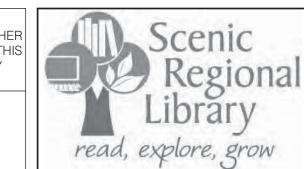
- 1 PROVIDE RETURN AIR BOOT. SEE DETAIL FOR ADDITIONAL
- 2 ROUTE DUCTWORK UP EXTERIOR WALL. PENETRATE THROUGH WALL WITH BOTTOM OF DUCT AT 15'-5" AFF.
- 3 ROUTE DUCTWORK UP EXTERIOR WALL. PENETRATE THROUGH WALL WITH BOTTOM OF DUCT AT 12'-0" AFF.
- 4 MOUNT SLOT DIFFUSER TO SIDEWALL OF SOFFIT. SEE SECTION
- AND DETAIL FOR MOUNTING HEIGHTS. 5 SLOPE DUCT WITH ROOF SLOPE. SEE SECTION FOR FURTHER
- 6 4" Ø FLUE UP FROM FC-1 THROUGH ROOF.

DRAIN PIPING SHALL BE COPPER.

#

- 7 ROUTE 4" Ø FLUE FROM FIREPLACE THROUGH WALL. TERMINATE
- WITH DEFLECT-O MODEL GDV OR APPROVED EQUAL. 8 ROUTE 6" Ø EXHAUST DUCT UP THROUGH ROOF. TERMINATE WITH
- GOOSENECK. SEE DETAILS FOR ADDITIONAL REQUIREMENTS. 9 PROVIDE 45°, 6" LONG BELLMOUTH FITTING AT INLET OF RETURN
- 10 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.
- 11 CONTRACTOR SHALL FIELD ROUTE REFRIGERANT PIPING BETWEEN FC-1 AND CU-1. 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.
- 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. 13 ROUTE CONDENSATE DRAIN PIPING TO FLOOR DRAIN IN ROOM.

12 ROUTE CONDENSATE PIPING TO FRENCH DRAIN. LOCATE FRENCH



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Description 04/14/17 ISSUED FOR BID

PROJECT NUMBER: 16-1161.04

**MECHANICAL** 

**ROOM SCHEDULE** NUMBER

> CORRIDOR WOMEN

STORAGE COATS

TEEN AREA CIRCULATION

WORK ROOM OFFICE STUDY

STUDY

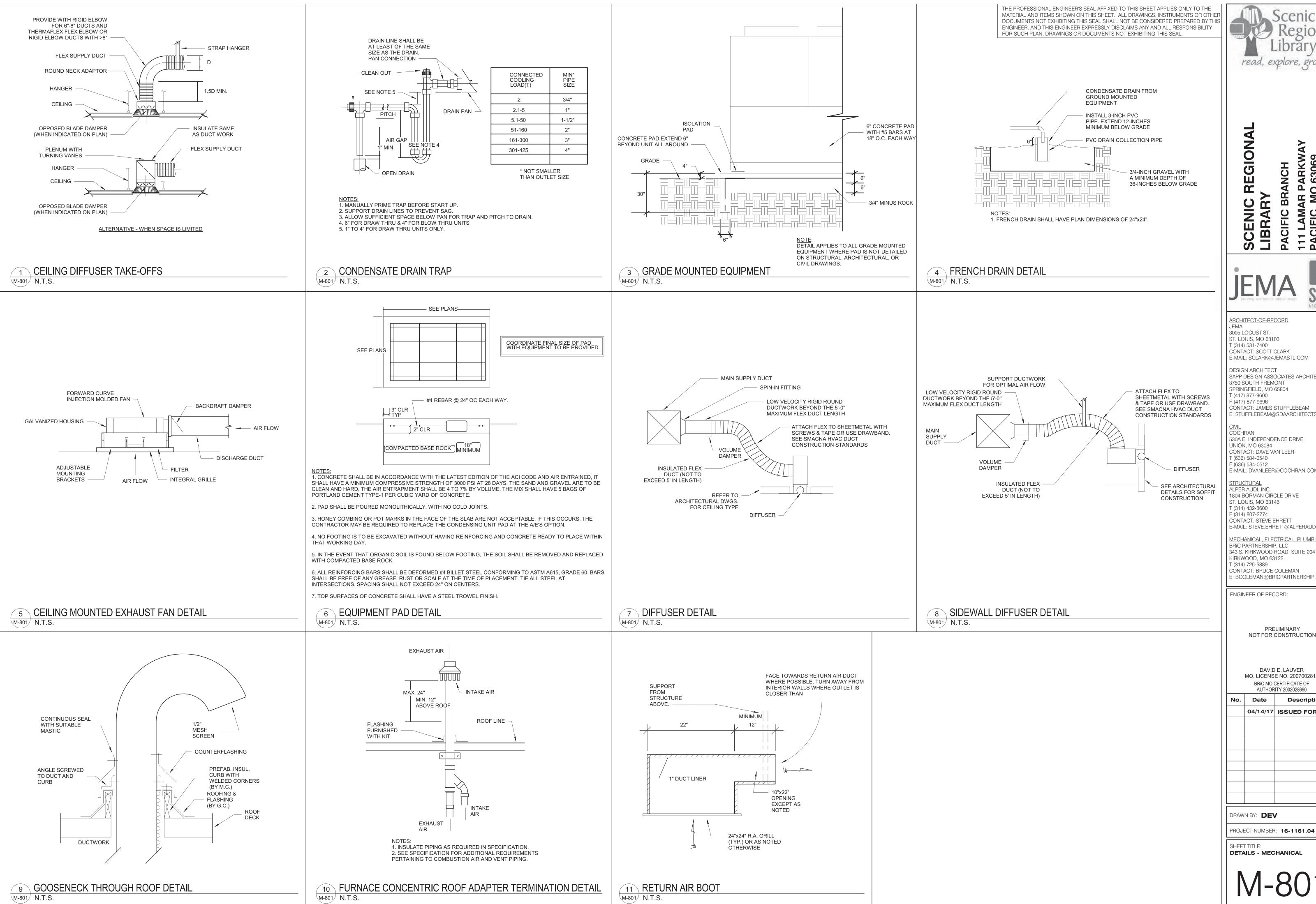
MECH/ELEC CORRIDOR STORAGE BREAK ROOM MEETING ROOM B JANITORS CLOSET **BOOK DROP** 

MEETING ROOM A MEETING ROOM B CHILDREN AREA ADULT AREA

VESTIBULE

DRAWN BY: **DEV** 

FLOOR PLAN - FIRST FLOOR -



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BRIC MO CERTIFICATE OF AUTHORITY 2002028690 Description

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						PAC	KAGED	AIR HAN	IDLING L	JNIT SCH	HEDULE								
PLAN MARK								(	COOLING PE	RFORMANC	E		ŀ	HEATING PER	RFORMANC	E			
			SUPPLY AIRFLOW	MINIMUM OUTSIDE AIR	MINIMUM HEATING AIR	EXTERNAL STATIC PRESSURE			AMBIENT			TOTAL CAPACITY			CAP.	OUTPUT CAP.	REFRIGERANT	MAX OPERATING WEIGHT	
	MANUFACTURER	MODEL	CFM	FLOW CFM	FLOW CFM	(IN. WG)	EDB (F°)	EWB (F°)	(F°)	LDB (F°)	LWB (F°)	(MBh)	EDB	LDB	(MBh)	(MBh)	USED	(LBS)	NOTES
AHU 1	JOHNSON CONTROLS, INC.	ZST18N30	7485	1400	3000	1.00	79	65	95	57	55	205.3	40	70	300.0	240.0	R-410A	1400	1 , 2, 3
AHU 2	JOHNSON CONTROLS, INC.	ZST08N12	2600	775	800	1.00	81	67	95	56	55	97.2	40	74	120.0	96.0	R-410A	1102	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.

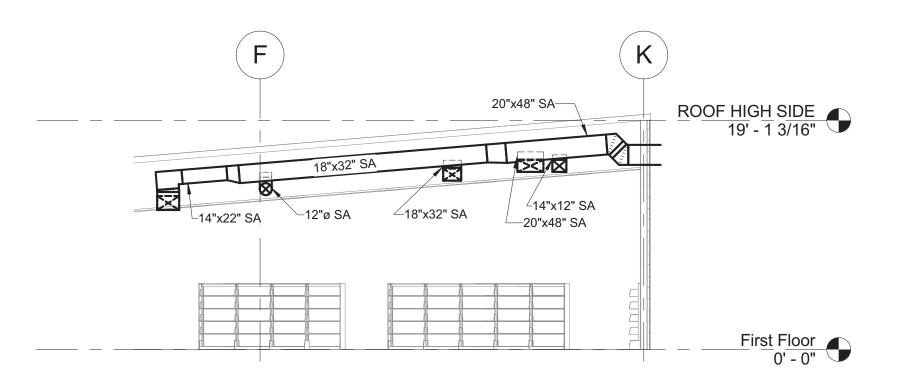
PROVIDE WITH 100% ECONOMIZER WITH POWER EXHAUST AND BAROMETRIC RELIEF KIT. UNIT SHALL BE CONFIGURED FOR HORIZONTAL SUPPLY AND RETURN.

PROVIDE WITH SINGLE POINT POWER CONNECTION, DISCONNECT SWITCH, AND CONVIENCE OUTLET.

PROVIDE WITH STAINLESS STEEL OR ALUMINIZED STEEL BURNER.

						F	FURNACE	E SCHE	DULE								
PLAN MARK			(	SUPPLY FAN				DX CIRCU	JITING				GAS HEA	TING COIL			
			SUPPLY	OUTSIDE	MOTOR	TOTAL	SENSIBLE	E	ΑT	L	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	RGF19060	0	315	0.5	34.2	22.9	80	67	62	58	60	57	60	104	122	1

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

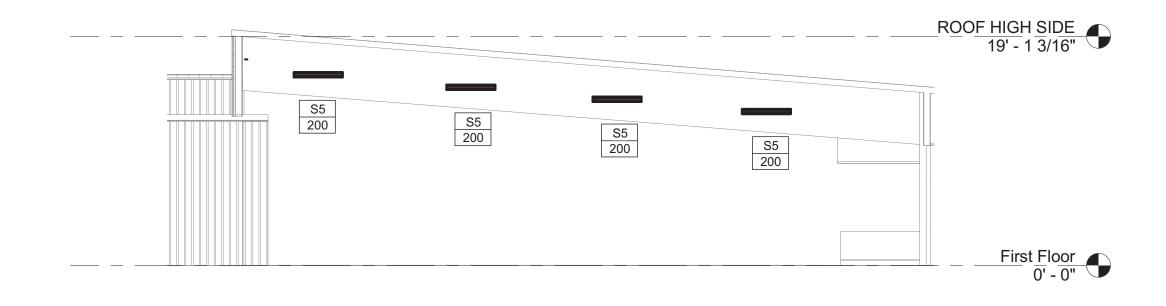


1 AHU-1 DUCTWORK THROUGH 110 CIRCULATION M-901 1/8" = 1'-0"

PLAN I	MARK			ASSOCIATED	COOLING	REFRIGERANT	UNIT WEIGHT	
		MANUFACTURER	MODEL	INDOOR UNIT	CAPACITY (MBh)	TYPE	(LBS)	NOTE
CU	1	GUARDIAN	RAL	FC-3	36.0	R410A	160.00	1

					All	R DEVI	CE SCHE	DULE						
					FA	CE				AIR				
TYPE				CONNECTION			MAXIUMUM AIRFLOW	THROW	MAX NC	TERMINAL STATIC PRESSURE				
MARK	MANUFACTURER	MODEL	STYLE	SIZE	LENGTH	WIDTH	(CFM)	_	LEVEL	(IN-WG)	MATERIAL	FINISH	MOUNTING TYPE	NOTES
IVIARN	MANUFACTURER	MODEL	SITLE	SIZE	LENGIA	חוטוייי	(CEIVI)	(FT)	LEVEL	(114-440)	IVIATERIAL	LIMOU	MOUNTING TYPE	NOTES
S1	TITUS	OMNI	SQUARE PLAQUE	6"ø	12"	12"	100	7	30	0.10	ALUMINUM	BWE	SURFACE MOUNT	
S2	TITUS	OMNI	SQUARE PLAQUE	6"ø	24"	24"	160	8	30	0.10	ALUMINUM	BWE	LAY-IN	
S3	TITUS	OMNI	SQUARE PLAQUE	8"ø	24"	24"	300	12	30	0.10	ALUMINUM	BWE	LAY-IN	
S4	TITUS	OMNI	SQUARE PLAQUE	10"ø	24"	24"	410	14	30	0.10	ALUMINUM	BWE	LAY-IN	
S5	TITUS	OMNI	1" LINEAR 1-SLOT	8"ø	48"	5 5/16"	125	25	30	0.10	ALUMINUM	BWE	LAY-IN	
R1	TITUS	OMNI	GRILL	6"ø	24"	24"	160	N/A	30	0.10	ALUMINUM	BWE	LAY-IN	
R2	TITUS	OMNI	GRILL	8"ø	24"	24"	225	N/A	30	0.10	ALUMINUM	BWE	LAY-IN	
R3	TITUS	350RL	GRILL	22"x22"	24"	24"	1500	N/A	30	0.10	ALUMINUM	BWE	LAY-IN	

1. PROVIDE EARTHQUAKE TABS.



2 SIDEWALL DIFFUSERS IN CIRCULATION 110
M-901 1/8" = 1'-0"

		L(	OUVER S	SCHEDULE				
PLAN MARK						MAX P.D.		
	MANUFACTURER	MODEL	CFM	DIMENSIONS	FREE AREA	IN W.C.	MATERIAL	NOTES
LV 1	RUSKIN	ELF6425DD	315	18"x12"	50	0.1	ALUMIINUM	

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

			EXHA	AUST FA	N SCHED	ULE			
PLAN	MARK	MANUFACTURER	MODEL	AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE (IN-WC)	FAN RPM	INLET SONES	MOTOR POWER WATTS	NOTES
EF	1	LOREN COOK	GC-162	150	0.00	1200	3.4	98	
EF	2	LOREN COOK	GC-162	150	0.00	1200	3.4	98	

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



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

No. Date Description

04/14/17	ISSUED FOR BID

DRAWN BY: **AMK** PROJECT NUMBER: 16-1161.04

SCHEDULES - MECHANICAL

# 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.
- 6. 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
- 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
- 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.
- 3. 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.
- 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.

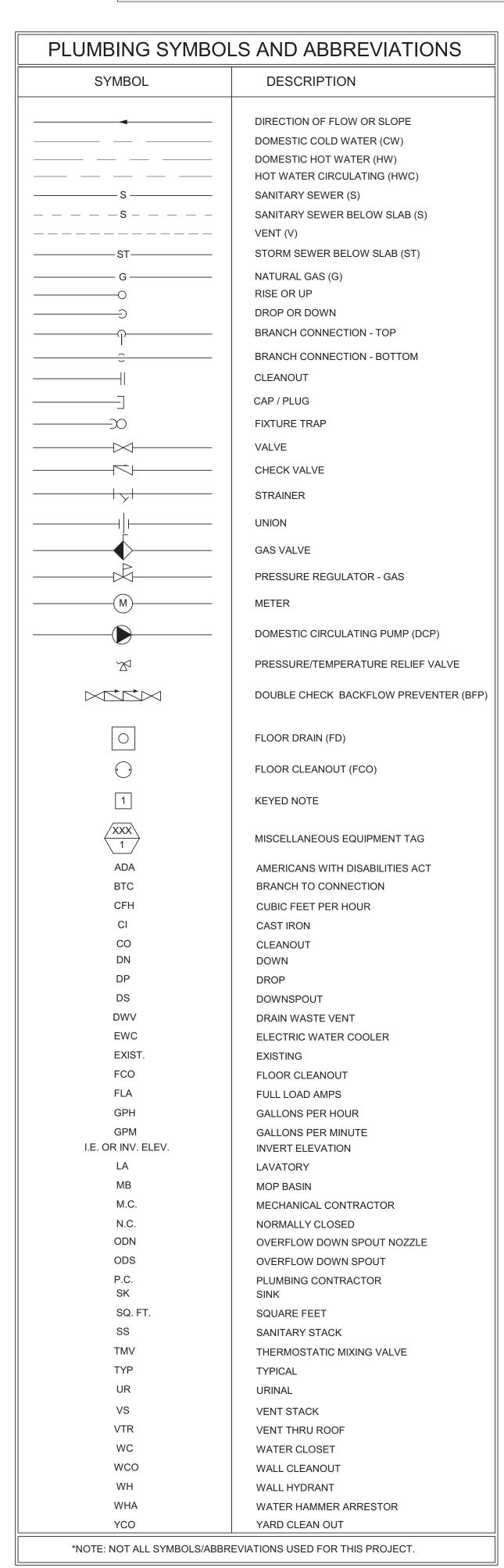
		PLUMBIN	G FIXTURE SCHE	EDULE (	BASIS	OF DESI	GN)	
MARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER	WASTE	VENT	COLD WATER	HOT WATER	NOTES
WC-1	WATER CLOSET, FLOOR MOUNT	KOHLER	K-4405	4"	2"	-	-	ADA COMPLIANT, FLOOR MOUNT, FLOOR DISCHARGE
	FLUSH VALVE	SLOAN	WES-111-W	-	-	1-1/4"	-	1.1 TO 1.6 gpf DUAL FLUSH MANUAL 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
NOTES					1	<u>'</u>		

	DRAIN SCHEDULE (BASIS OF DESIGN)											
MARK	ARK MANUFACTURER 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.						

NOTES NB NICKEL BRONZE SS STAINLESS STEEL

- CI CAST IRON
- INDICATES NOT APPLICABLE

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Description

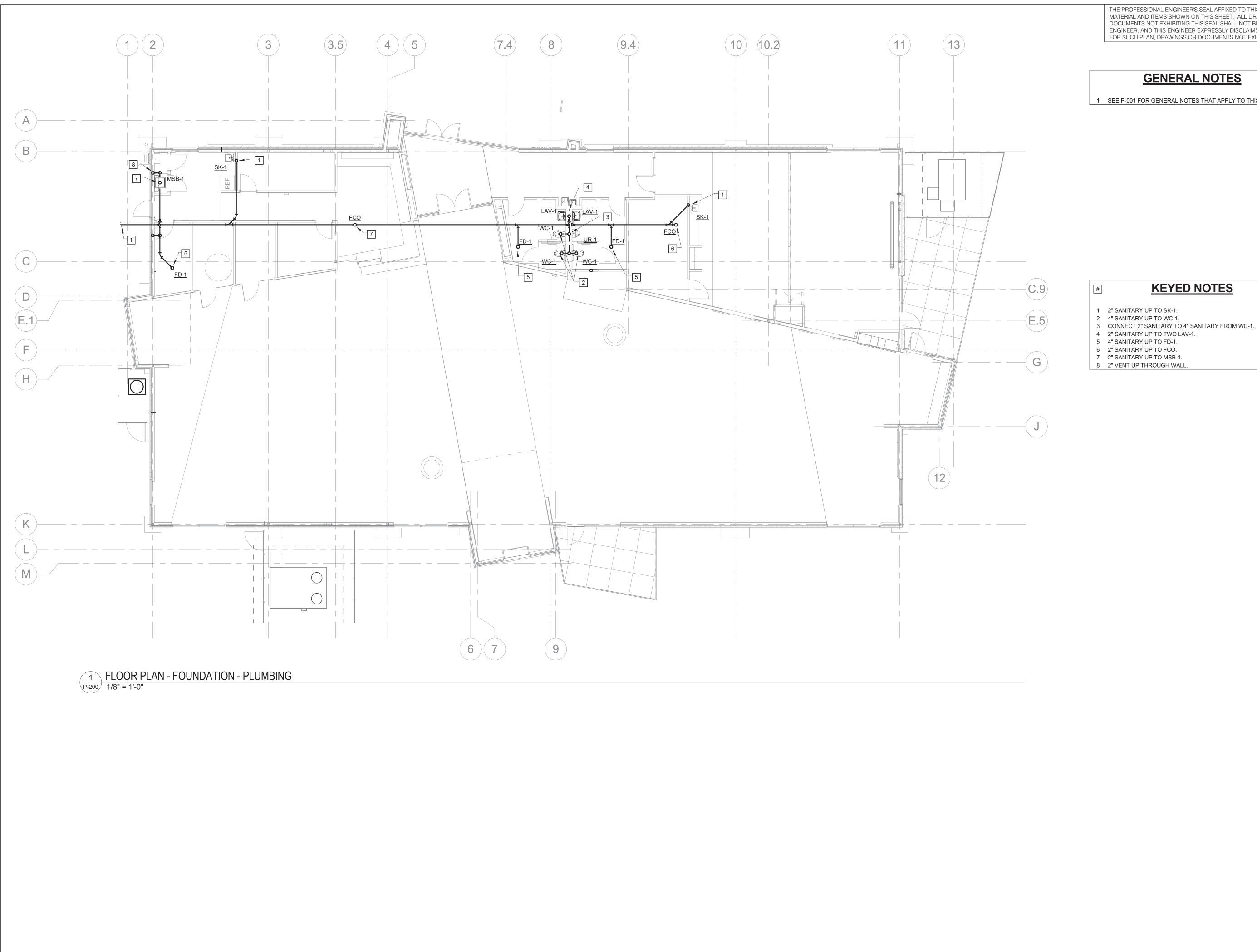
DRAWN BY: **AMK**PROJECT NUMBER: **16-1161.04** 

SHEET TITLE:

LEGEND, SYMBOLS, NOTES,

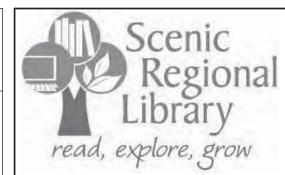
ABBREVIATIONS, & SCHEDULES -

P-001



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





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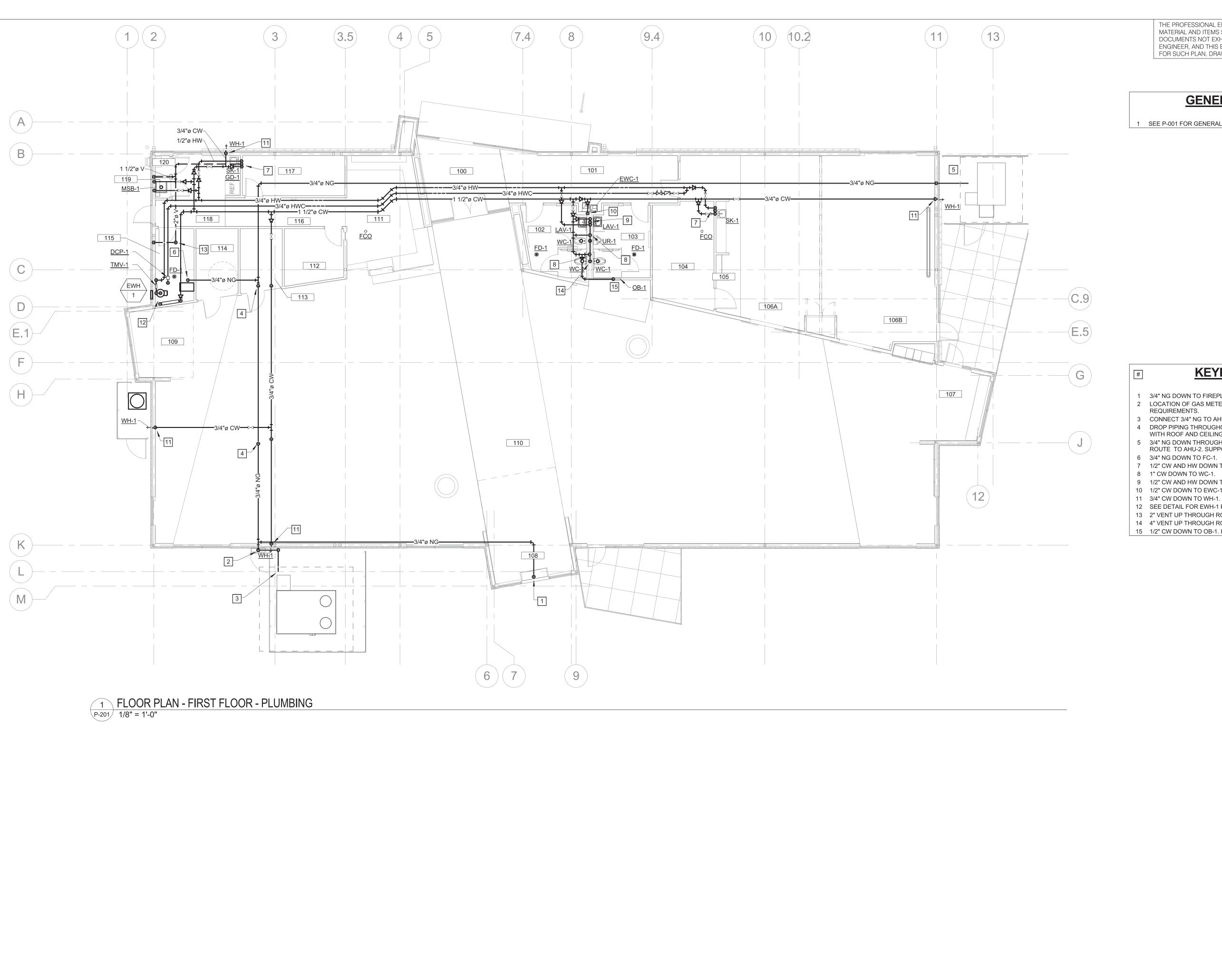
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Description

DRAWN BY: **DEV** 

PROJECT NUMBER: 16-1161.04

FLOOR PLAN - FOUNDATION -PLUMBING



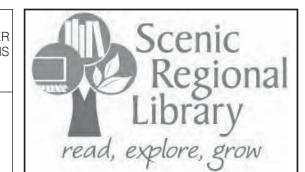
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# **GENERAL NOTES**

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

# **KEYED NOTES**

- 1 3/4" NG DOWN TO FIREPLACE.
- 2 LOCATION OF GAS METER. SEE DETAIL FOR INSTALLATION REQUIREMENTS.
- 3 CONNECT 3/4" NG TO AHU-1. SUPPORT PIPING ON GROUND. 4 DROP PIPING THROUGHOUT 110 CIRCULATION TO COORDINATE
- WITH ROOF AND CEILING SLOPE. 5 3/4" NG DOWN THROUGH WALL. PENETRATE WALL 18" AFF.
- ROUTE TO AHU-2. SUPPORT PIPING ON GROUND.
- 7 1/2" CW AND HW DOWN TO SK-1.
- 9 1/2" CW AND HW DOWN TO LAV-1.
- 10 1/2" CW DOWN TO EWC-1.
- 12 SEE DETAIL FOR EWH-1 PIPING REQUIREMENTS.
- 13 2" VENT UP THROUGH ROOF. 14 4" VENT UP THROUGH ROOF.
- 15 1/2" CW DOWN TO OB-1. INSTALL OB-1 UNDER COUNTER.





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Description 04/14/17 ISSUED FOR BID

DRAWN BY: **DEV** 

**ROOM SCHEDULE** 

VESTIBULE CORRIDOR WOMEN

STORAGE COATS

TEEN AREA CIRCULATION

WORK ROOM OFFICE STUDY

STUDY

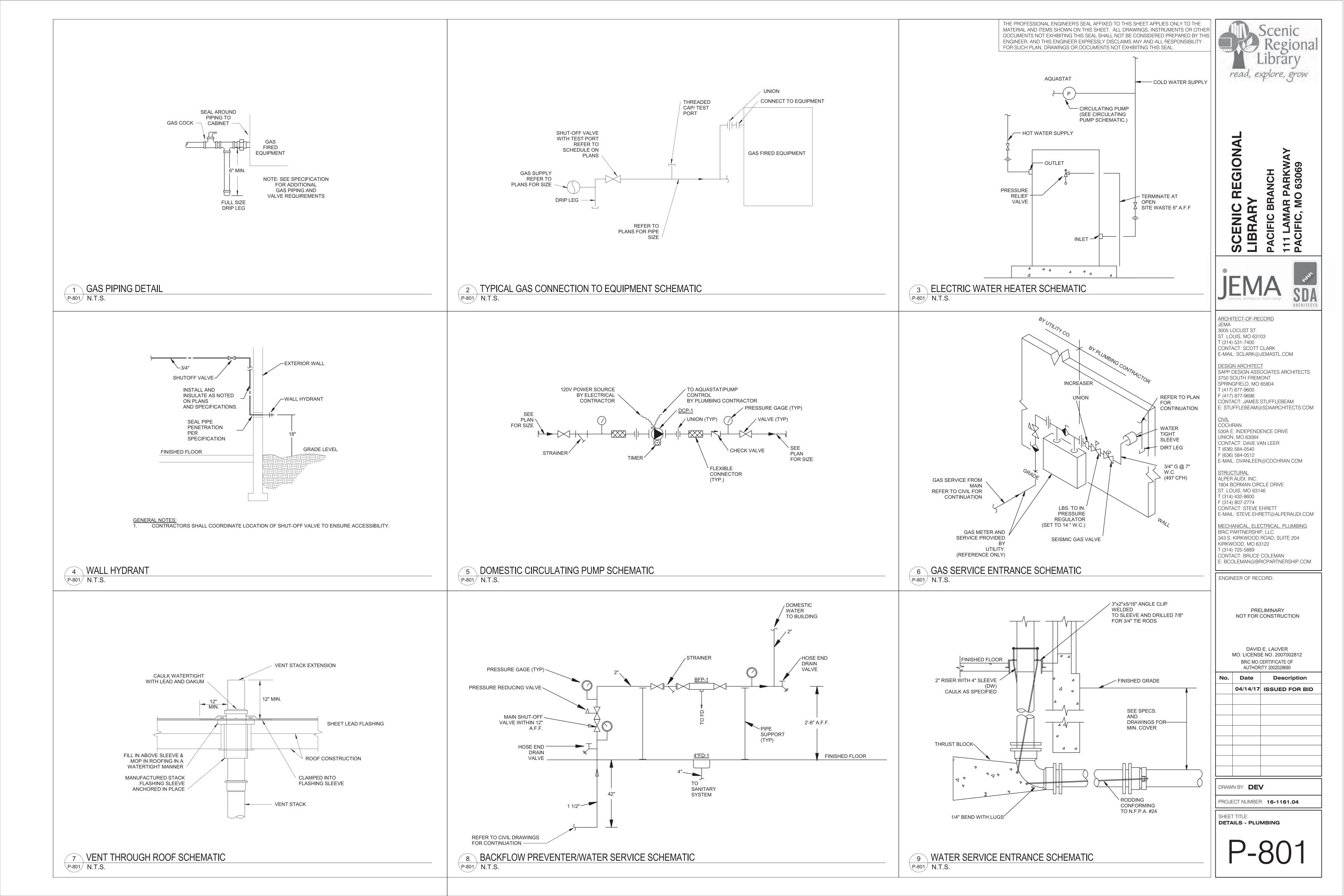
MECH/ELEC CORRIDOR STORAGE BREAK ROOM MEETING ROOM B JANITORS CLOSET BOOK DROP

MEETING ROOM A MEETING ROOM B CHILDREN AREA ADULT AREA

NUMBER

PROJECT NUMBER: 16-1161.04

FLOOR PLAN - FIRST FLOOR -PLUMBING



# **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."
- C 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.
- INDICATES DEVICE IS EXISTING.
- F.B.O. FURNISHED BY OTHERS
- FS FUSIBLE SWITCH.
- GD GARAGE DOOR INSTALLER.
- GFI GROUND FAULT INTERRUPT PROTECTION.
- HP HORSEPOWER
- IG ISOLATED / INSOLATED GROUND DEVICE.
- LVC LOW VOLTAGE CONTRACTOR
- M.C. MECHANICAL CONTRACTOR (DIVISION 15).
- NF 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.
- W 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).
- 2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
- 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.
- 8. 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.)
- J WALL-MOUNTED JUNCTION BOX (4"x4"x1-1/2" MIN.)

# FLOORBOX

FB# INDICATES FLOOR BOX REQUIREMENTS

FB1 - FLOOR BOX

POWER: (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
POWER:
(2) 5-20 DUPLEX RECEPTACLES.

FB4 - FLOOR BOX POWER: (1) 208V/2P BREAKER WITH 120V WHIP (3) #12, (1) #12 GND, 1" C

WITH SHARED NEUTRAL.

COMMUNICATIONS: PROVIDE CAT6 DATA CONNECTION PER FLOOR PLAN.

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.

GROUND CONNECTION OR LIGHTNING PROTECTION GROUND ROD LOCATION.

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

(1) MOTOR CONNECTION. "1" INDICATES HORSEPOWER.

POWER POKE-THRU DEVICE. PROVIDE ADAPTER PLATE FOR FLEXIBLE CONDUIT CONNECTION.

90A 3-POLE ELECTRICAL DISCONNECT, SUBTEXT DENOTES DISC. AMP RATING AND 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.

A 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)

"WA" - 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 R.145

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.
- VC VOLUME CONTROLLER FOR SPEAKERS

# **RECEPTACLE SYMBOLS:**

# TYPE DESIGNATION:

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

"TVSS"-NEMA 5-20R SURGE SUPPRESSION TYPE DUPLEX RECEPTACLE.

"MW"- MICROWAVE RECEPTACLE.

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

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

"H"- MOUNT OUTLET HORIZONTALLY.

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

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

NEMA 5-20R GROUND TYPE DUPLEX RECEPTACLE. SUBSCRIPT INDICATES TYPE. MOUNT AT 18" A.F.F. UNLESS NOTED OTHERWISE.

NEMA 5-20R G.F.I. DUPLEX RECEPTACLE. MOUNT 18" A.F.F. UNLESS

NEMA 5-20R GROUND TYPE SIMPLEX RECEPTACLE. SUBSCRIPT

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.

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.

B-LLC 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 CONTROLS.

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

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

WALL MOUNTED DOWNLIGHT

USHT 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:

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

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

# 1 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

"110i" NUMBER INDICATE ROOM NUMBER. LETTER INDICATES SWITCH NUMBER IN THE ROOM.

PC PHOTO CELL DEVICE

C CONTACTOR

LCPS LIGHTING CONTROL POWER STATION. MOUNT ON 4" x 4" BOX ABOVE CEILING.

LCP LIGHTING CONTROL PANEL. INCLUDES SYSTEM CONTROLLER. CONTAINS RELAYS.

LLC LOCAL LIGHTING CONTROLLER. REFER TO DETAIL 1/E8.0.0

NETWORK INTERFACE

OCCUPANCY SENSOR, CEILING MOUNTED. WIDE ANGLE LENS. MOUNT

AT 96" A.F.F. SUBSCRIPT DENOTES SENSOR TYPE.

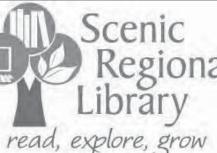
"IR"- PASSIVE INFRARED TECHNOLOGY.

"DT"- DUAL (PIR + ULTRASONIC) TECHNOLOGY.

REFER TO POWER PLANS FOR RECEPTACLE LOCATIONS.

OCCUPANCY SENSOR RELAY PACK 20A CONTACTOR MOUNTED ON J-

BOX ABOVE ACCESSIBLE CEILING FOR SWITCHING LOCAL RECEPTACLE



d, explore, grow

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Date Description

04/14/17 ISSUED FOR BID

BRIC MO CERTIFICATE OF AUTHORITY 2002028690

DRAWN BY: **TLK** 

PROJECT NUMBER: **16-1161.04** 

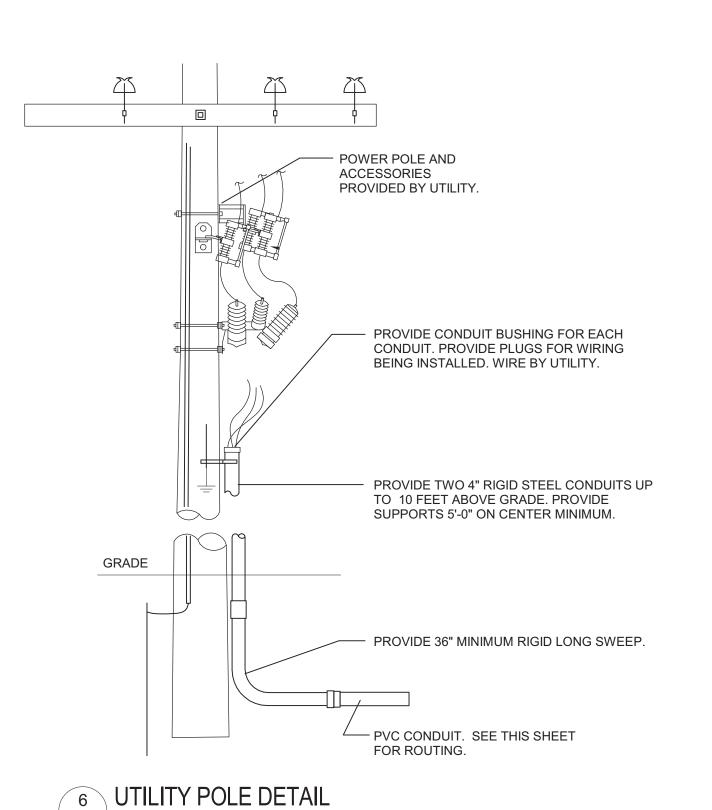
SHEET TITLE:

LEGEND, SYMBOLS, NOTES, &
ABBREVIATIONS - ELECTRICAL

E-001

## # **KEYED NOTES**

- 1 PROVIDE (2) #10, (1) #10 GND, IN 1" CONDUIT POWER TO SITE LIGHTING FIXTURES.
- UNDERGROUND DUCTS FOR COMMUNICATIONS SERVICES, TWO (2) 2" PVC. SEE SHEET E-401 FOR CONTINUATION INTO BUILDING. COORDINATE WITH SERVICE PROVIDERS AND ROUTE TO POLE OR MANHOLE AS
- 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 IN GRADE PULL BOX PER UTILITY REQUIREMENTS.
- 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.



E-100 N.T.S.

**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 NEAR PANEL.

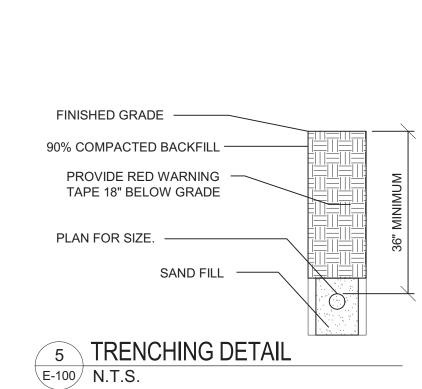
4 FLAG POLE FLOOD LIGHTS (S3 FIXTURE) SHALL BE EVENLY SPACED

ELECTRICAL CONTRACTOR SHALL CORRIDNATE SITE LIGHTING FIXTURES

AROUND THE FLAG POLE APPROXIMALY 4' AWAY FROM THE FLAG POLE.

SEE LIGHTING PLAN FOR BUILDING MOUNTED FIXTURES.

PRIOR TO INSTALLING BASE WITH CIVIL CONTRACTOR.



S3,47 90000000

1 SITE PLAN - ELECTRICAL E-100 1" = 20'-0"

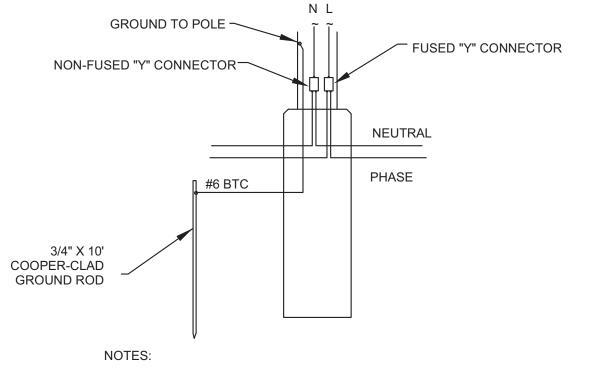
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- NON-SHRINK GROUT WITH WIRE MESH 1" CHAMFER - ANCHOR BOLTS PER MANUFACTURERS **RECOMMENDATIONS (4** 2'-6" TO NEXT POLE FROM LAST POLE 1" MIN 1" MIN SIX NO. 5 BARS 7'-0" **EQUALLY** SPACED NO. 4 SPIRAL WITH PITCH - 3 LOOPS MINIMUM TOP AND BOTTOM. LOOPS SPACED 2" NOTES:

- ALL CONCRETE ABOVE GRADE SHALL BE HAND RUBBED TO A SMOOTH FINISH.
- CONCRETE POLE BASE BY E.C. CONCRETE TO HAVE 3500 PSI MIN COMPRESSIVE STRENGTH AT 28 DAYS AND USE ASTM A615 GRADE 60 REINFORCING STEEL.

# 2 SITE LIGHTING POLE BASE DETAIL

E-100 N.T.S.

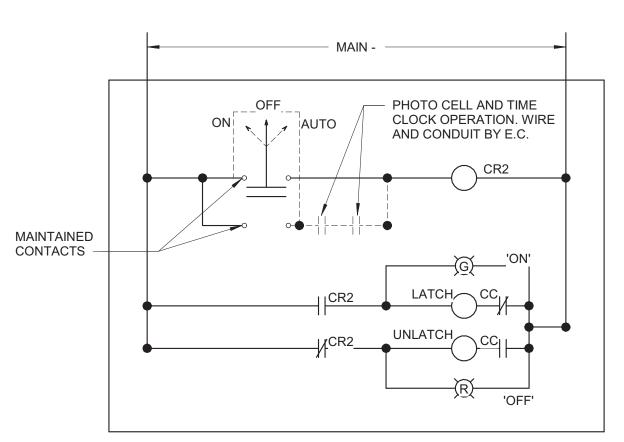


FUSED "Y" CONNECTOR TO BE FUSED AT 10 AMPS AND RATED FOR 600 VOLTS.

GROUND POLE AND NEUTRAL TO GROUND ROD USING CONDUCTOR INDICATED.

# 3 SITE LIGHTING POLE WIRING DETAIL E-100 N.T.S.

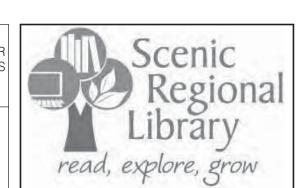




ALL WIRING SHALL BE #10 U.N.O. MECHANICALLY HELD LIGHTING CONTACTOR

4 SITE LIGHTING CONTACTOR

E-100 N.T.S.





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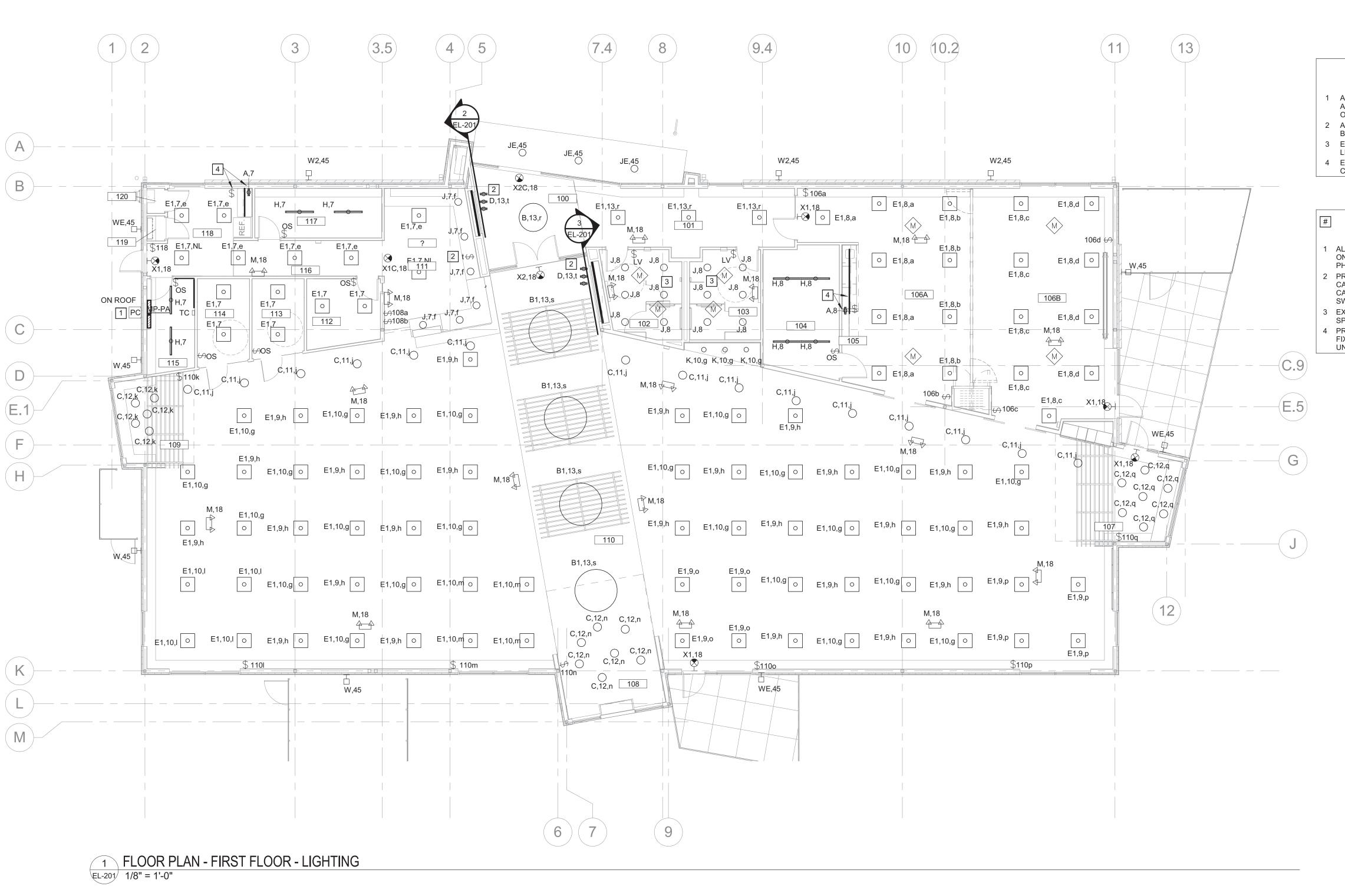
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AUTHORITY 2002028690

.,	Date	Bescription
	04/14/17	ISSUED FOR BID

DRAWN BY: **TLK** PROJECT NUMBER: 16-1161.04

SITE PLAN - ELECTRICAL



LIGHT FIXTURE SCHEDULE MOUNTING MANUFACTURER 1 Model DESCRIPTION Voltage 7 W PER 20", 75 LM/W, 80 CRI, 3500K, UNDER CABINET SURFACE MOUNT UNDER CABINET FIXTURE. PROVIDE DRIVER AND CABLE AS REQUIRED. 48", 145W, 13050 LUMENS, LED, 3500K LIGHT TEMP PENDENT / CEILING MOUNTED PENDANT WITH 3 ANDGLED AIRCRAFT CABLES AND WHITE POWER CORD TO CANOPY, MATTE WHITE POLYETHYLENE FINISH, WITH 0-10V DIMMING DRIVER. 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. **FILLSTA** 7", 11W, 600 LUMENS, LED, 3500K LIGHT TEMP PENDENT / CEILING MOUNTED LED LINEAR SURFACE MOUNT SILVER - ADJUSTABLE MOUNT CABLE OUT THE BACK, PROVIDE DIMMABLE DRIVER. DRIVER SHALL BE LOCATED ABOVE THE CEILING. XOOLUM 10 W/M, 131 LM/W, 80 CRI, 3500K, WALL WASH METALUX 2x2, 34.4W, 3400 LUMENS, LED, 3500K LIGHT TEMP RECESSED LAY-IN CEILING UNIVERSAL 120V WITH 0-10V DIMMING DRIVER. METALUX SNLED 120 V 4', 25.07W, 3061 LUMENS, LED, 3500K LIGHT TEMP CEILING SURFACE MOUNT COMMERCIAL STRIPLIGHT, LED 4.0, CLEAR LENS, UNIVERSAL 120V WITH 0-10V DIMMING DRIVER. 6", 17.1W, 1500 LUMENS, 80 CRI, LED, 3500K LIGHT TEMP RECESSED CEILING MOUNT DOWNLIGHT, SEMI-SPECULAR CLEAR, UNIVERSAL 120V WITH 0-10V DIMMING DRIVER. 6", 17.1W, 1500 LUMENS, 80 CRI, LED, 3500K LIGHT TEMP RECESSED CEILING MOUNT DOWNLIGHT, SEMI-SPECULAR CLEAR, UNIVERSAL 120V WITH 0-10V DIMMING DRIVER. WITH REMOTE EMERGENCY BACK UP BATTERY TECH LIGHTING ELEMENT 120 V 4" ROUND, FLANGE, BEVEL, 1500 LUMENS 80CRI, 3500K, 40 DEG RECESSED CEILING MOUNT DOWNLIGHT, SEMI-SPECULAR CLEAR, UNIVERSAL 120V WITH 0-10V DIMMING DRIVER. SURE-LITES SEL50 LED BUG EYE, LED CEILING SURFACE MOUNT DEDICATED BUG LIGHTING, WHITE FINISH, UNIVERSAL 120V, WITH BACKUP BATTERY 120 V COOPER LIGHTING GALLEON 9500 LUM, 4000K, 85W, T4 20' POLE RTS PROVIDE 20' RTS POLE, SEE DETAIL ON E-100. BLACK FINISH COOPER LIGHTING **GALLEON** 120 V 9500 LUM, 4000K, 85W, T3 20' POLE RTS PROVIDE 20' RTS POLE, SEE DETAIL ON E-100. BLACK FINISH GROUND MOUNT, PROVIDE 12" DIAMETER CONCRETE SUPPORTS. COOPER LIGHTING NFFLD-S GRADE MOUNT 2700LUM, 5000K, 3H X 3V TRAPEZOID, BLACK FINISH, PROVIDE WEATHER SEAL AROUND BACK BOX COOPER LIGHTING 5000 LUM, 4000K, 45W, BL3 WALL MOUNTED TRAPEZOID, BLACK FINISH, PROVIDE WEATHER SEAL AROUND BACK BOX. COOPER LIGHTING 120 V 5000 LUM, 4000K, 45W, BL4 WALL MOUNTED 5000 LUM, 4000K, 45W, BL3 WALL MOUNTED TRAPEZOID, BLACK FINISH, PROVIDE WEATHER SEAL AROUND BACK BOX. PROVIDE WITH COLD WEATHER BATTERY PACK. COOPER LIGHTING 120 V COOPER LPX SERIES 120 V 3.8W, LED, RED WALL MOUNTED LED EDGE LIT EXIT SIGN. PROVIDE SINGLE FACE, AND CHEVRONS INDICATED ON DRAWINGS, WITH BATTERY BACKUP. LED EDGE LIT EXIT SIGN. PROVIDE SINGLE FACE, AND CHEVRONS INDICATED ON DRAWINGS, WITH BATTERY BACKUP COOPER LPX SERIES 120 V 3.8W, LED, RED CEILING MOUNTED COOPER ES SERIES 120 V 3.8W, LED, RED WALL MOUNTED LED EDGE LIT EXIT SIGN. PROVIDE SINGLE FACE, AND CHEVRONS INDICATED ON DRAWINGS, WITH BATTERY BACKUP LED EDGE LIT EXIT SIGN. PROVIDE SINGLE FACE, AND CHEVRONS INDICATED ON DRAWINGS, WITH BATTERY BACKUP. COOPER ES SERIES 120 V 3.8W, LED, RED CEILING MOUNTED

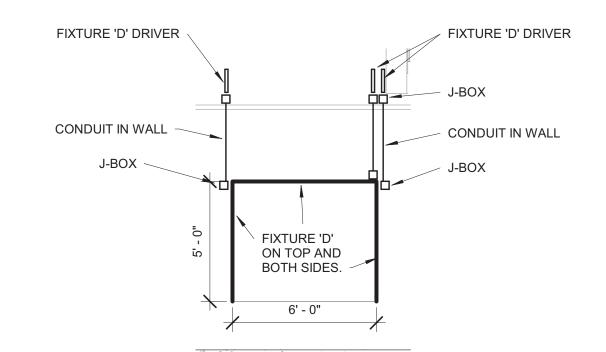
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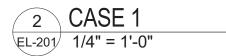
# **GENERAL NOTES**

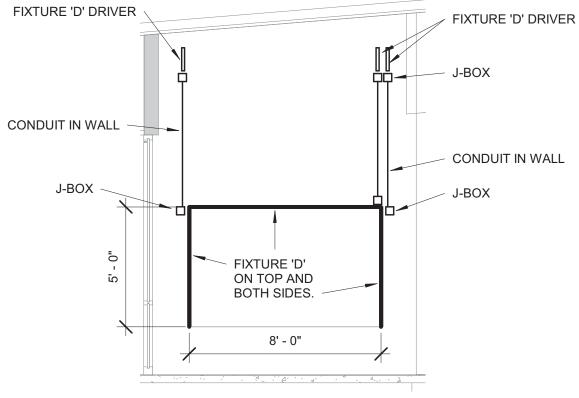
- ALL LIGHTING SHALL BE CONTROLLED BY A TIME CLOCK UNLESS NOTED TO BE CONTROLLED BY AN OCCUPANCY SENSOR. REFER TO LEGEND SHEET FOR TIME CLOCK DETAILS. A TIME CLOCK OVERRIDE SWITCH SHALL BE PROVIDED IN THE WORK ROOM 108.
- ALL LIGHTING IN STORAGE, OFFICES, STUDIES, MECHANICAL/ELECTRICAL, MEETING ROOM AND BATHROOMS ARE CONTROLLED BY OCCUPANCY & MOTION SENSORS.
- 3 EGRESS LIGHTING SHALL HAVE DEDICATED POWER. WHEN NO POWER IS DETECTED, EGRESS
- 4 ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTS CEILING PLAN FOR FINAL LOCATION OF CEILING FIXTURES.

# **KEYED NOTES**

- ALL SITE AND EXTERIOR BUILDING LIGHTING SHALL BE CONTROLLED BY A PHOTO CELL LOCATED ON THE EXTERIOR EAST & WEST WALLS OF THE BUILDING. PROVIDE WIRE AND CONDUIT TO THE
- 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 UNDER THE CABINET.

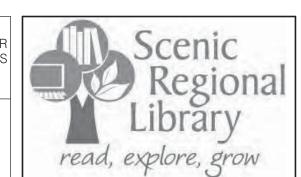






3 CASE 2 EL-201 1/4" = 1'-0"

ROC	OM SCHEDULE
NUMBER	NAME
100	VESTIBULE
101	CORRIDOR
102	WOMEN
103	MEN
104	STORAGE
105	COATS
106A	MEETING ROOM A
106B	MEETING ROOM B
107	CHILDREN AREA
108	ADULT AREA
109	TEEN AREA
110	CIRCULATION
111	WORK ROOM
112	OFFICE
113	STUDY
114	STUDY
115	MECH/ELEC
116	CORRIDOR
117	STORAGE
118	BREAK ROOM
118	MEETING ROOM B
119	JANITORS CLOSET
120	BOOK DROP



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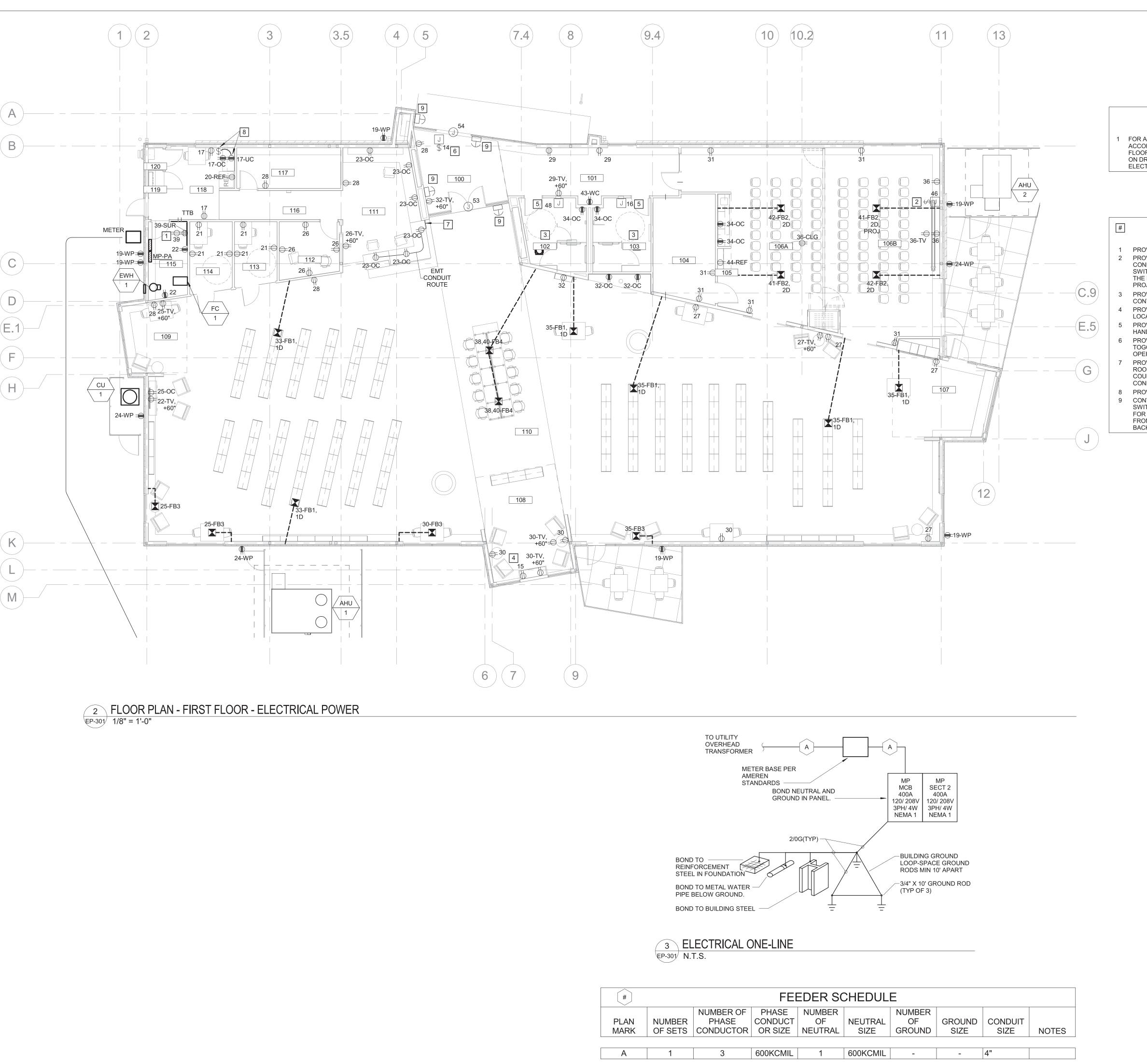
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AUTHORITY 2002028690 Description 04/14/17 ISSUED FOR BID

DRAWN BY: **TLK** 

PROJECT NUMBER: 16-1161.04

FLOOR PLAN & LIGHT FIXTURE SCHEDULE - LIGHTING



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# **GENERAL NOTES**

1 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 115.

# **KEYED NOTES**

- PROVIDE RECEPTACLE ON TOP OF RACK.
- PROVIDE CONNECTION TO PROJECTOR 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 PROJECTOR SCREEN.
- 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 FIRE PLACE.
- PROVIDE BACK BOX FOR HAND DRYER. PROVIDE FINAL CONNECTION TO HAND DRYER. COORDINATE LOCATION WITH G.C.
- PROVIDE CONNECTION TO ADA DOOR OPENER. PROVIDE A 20AMP TOGGLE DISCONNECT SWITCH, ABOVE THE CEILING, FOR ADA OPERATOR
- PROVIDE EMT CONDUIT TO OVER COUNTER RECEPTACLES IN WORK ROOM 108 AS SHOWN ON DRAWINGS. CONDUIT SHALL BE RAN UNDER COUNTER AND UP THROUGH DESK. PROVIDE (2) #12, (1) #12 GND, IN 3/4" CONDUIT.
- 8 PROVIDE SWITCH FOR GARBAGE DISPOSAL
- 9 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.



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No. Date Description

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**ROOM SCHEDULE** 

VESTIBULE

CORRIDOR WOMEN

STORAGE COATS

MEETING ROOM A

MEETING ROOM B

CHILDREN AREA
ADULT AREA

TEEN AREA CIRCULATION

WORK ROOM

OFFICE STUDY

STUDY

MECH/ELEC

CORRIDOR

STORAGE BREAK ROOM

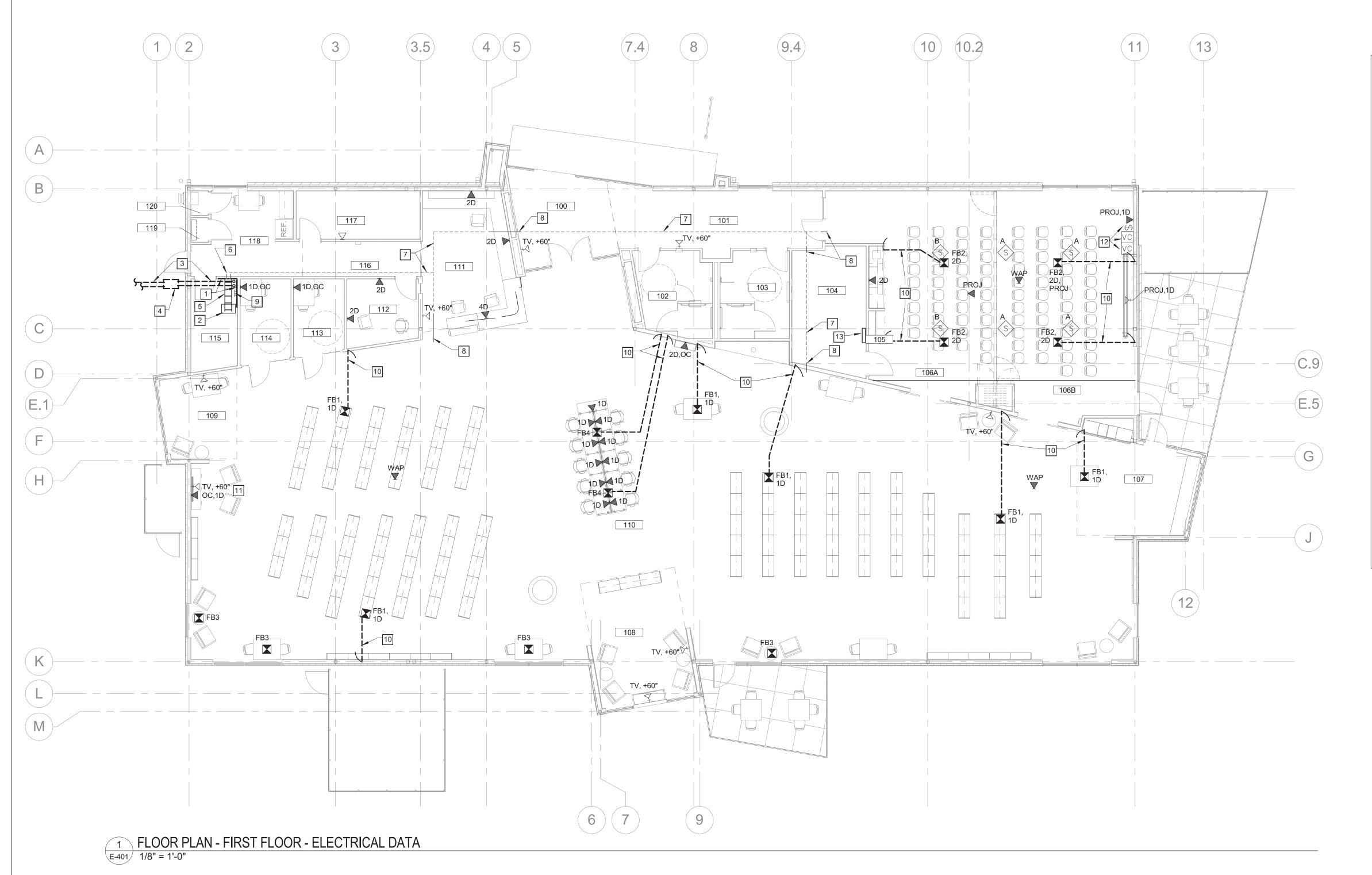
MEETING ROOM B JANITORS CLOSET BOOK DROP

PROJECT NUMBER: 16-1161.04

SHEET TITLE:
FLOOR PLAN, ONE-LINE, &

EP-301

SCHEDULE - ELECTRICAL POWER



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# **KEYED NOTES**

- 1 PROVIDE 3/4" PLYWOOD BACK BOARD FOR MOUNTING COMMUNICATIONS AND DATA EQUIPMENT. PLYWOOD SHALL BE FIRE RETARDANT UL LISTED PRODUCT, COVER WALL FROM 12" AFF TO 108" AFF OR TO CEILING, WHICHEVER IS LOWER.
- PROVIDE 7' HIGH 45U 2-POST EQUIPMENT RACK FOR NETWORK AND COMMUNICATIONS EQUIPMENT. RACK SHALL HAVE THREE (3) 1U HORIZONTAL CABLE MANAGERS. MOUNT RACK WITH FRONT OF RACK FACING SOUTH.
   PROVIDE TWO (2) 2" UTILITY DUCTS FOR COMMUNICATIONS AND DATA SERVICES.
- DUCTS SHALL STUB UP 12" ABOVE FLOOR WHERE SHOWN. ROUTE FROM ROOM
  #115 TO UTILITY POLE AS DIRECTED BY SERVICE PROVIDERS, VERIFY.
  PROVIDE CAST FIBER CEMENT TYPE HAND HOLE WITH 2-BOLT GASKETED COVER
- SIMILAR TO HUBBELL #B10162230A 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.

  5 PROVIDE LADDER STYLE CABLE RUNWAY ABOVE RACK SIMILAR TO CHATSWORTH PRODUCTS #10250-712. MOUNT RUNWAY ANCHORED TO TOP OF RACK AND
- HARDWARE.

  6 PROVIDE TWO (2) 4" CONDUIT SLEEVES THROUGH WALL AT APPROX. 8" ABOVE CORRIDOR CEILING. CONDUITS SHALL HAVE BUSHINGS ON ENDS AND FIRESTOP AS REQUIRED. COORDINATE WITH OTHER TRADES AND ADJUST HEIGHT AS

REQUIRED TO PROVIDE ADEQUATE CLEARANCE.

ATTACH TO WALL WITH MANUFACTURERS APPROVED BRACKETS AND

- 7 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 RECLOSABLE VELCRO STRAPS, ZIP TIES ARE NOT ACCEPTABLE. THE DESIGN INTENT IS THAT THIS PATH REPRESENTS A MAJOR 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 CEILINGS 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.
- 9 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 SIMILAR TO ERICO #TGBA14L06PT. PROVIDE #2 AWG CU BONDING CONDUCTOR CONNECTED TO ELECTRICAL SERVICE GROUNDING ELECTRODE. ALL BONDING CONDUCTORS SHALL TERMINATE TO BUS WITH TWO-HOLE COMPRESSION CRIMP LUGS SIZED FOR THE INDIVIDUAL CONDUCTORS. BOND RACK FRAME, CONDUIT SLEEVES, 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 #115 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 ON SHEET E-600.

NSIDERED PREPARED BY THIS YAND ALL RESPONSIBILITY NG THIS SEAL.

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**ROOM SCHEDULE** 

VESTIBULE CORRIDOR WOMEN

STORAGE COATS

TEEN AREA CIRCULATION

WORK ROOM OFFICE STUDY

STUDY
MECH/ELEC
CORRIDOR
STORAGE
BREAK ROOM
MEETING ROOM B
JANITORS CLOSET
BOOK DROP

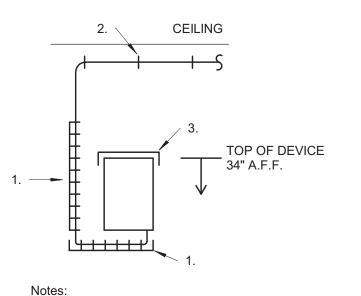
MEETING ROOM A
MEETING ROOM B
CHILDREN AREA
ADULT AREA

PROJECT NUMBER: 16-1161.04

SHEET TITLE:

FLOOR PLAN - ELECTRICAL DATA

E-401

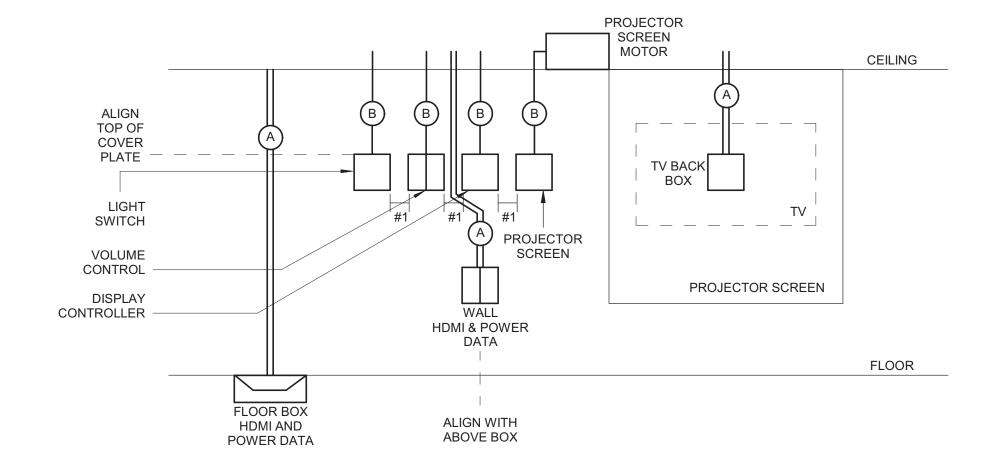


otes:

1) PROVIDE CABLE MANAGEMENT
SIMILAR TO LEGRAND CABLE
FILL G-MINI FROM CABLE SIDE
OF SWITCHER TO CEILING.

2) PROVIDE 1-1/2" O-RINGS TO SUPPORT
CABLE ABOVE CEILING.

3) PROVIDE VERTICAL MOUNT FOR
SWITCHER.



NOTES:

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

CONDUIT SIZE

	CONDUIT SIZE									
TYPE	POWER	TYPE								
(A)	(1) 3/4"	(1)1- 1/4"								
В	-	(1)3/4"								
©	(1) 3/4"	-								
		· · · · · · · · · · · · · · · · · · ·								

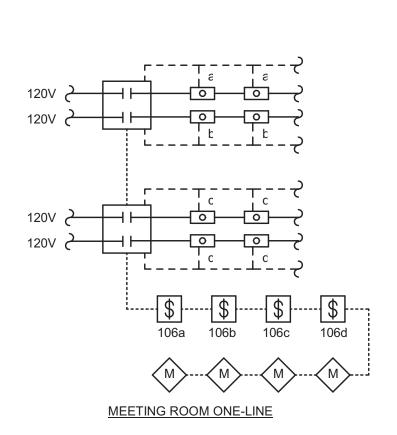
2 AV SWITCH ELEVATIONS E-801 N.T.S. 1 AV DEVICE LAYOUT N.T.S.

# LIGHTING CONTROL SYMBOLS

LIGHT FIXTURE O TO SELECT TO SELECT

LOW VOLTAGE SWITCH AND SWITCH NUMBER

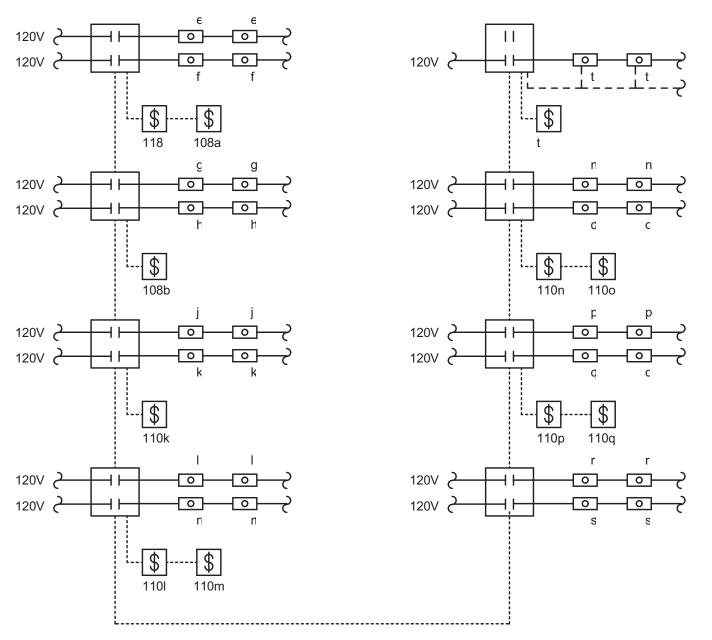
CEILING OCCUPANCY SENSOR



# MEETING ROOM CONTROL

CONTRO		CIRCUIT CONTROL	CONTROL TYPE
\$ 106a	a b	a,b,c,d FUTURE	ALL ON/OFF - 100%
\$ 106b	a	a,b	a,b - ON/OFF - 100%
	b	a	a - ON/OFF - 100%
	c	b	b - ON/OFF - 100%
	d	DIMMING	DIM SELECTED
\$ 106c	a	c,d	c,d - ON/OFF - 100%
	b	c	c - ON/OFF - 100%
	c	d	d - ON/OFF - 100%
	d	DIMMING	DIM SELECTED
\$ 106d	a	a,b,c,d	a,b,c,d - ON/OFF - 100%
	b	a	a - ON/OFF - 100%
	c	b	b - ON/OFF - 100%
	d	c	c - ON/OFF - 100%
	e	d	d - ON/OFF - 100%
	f	DIMMING	DIM SELECTED
M	VACANCY S		HALL BE SET UP AS A URN OFF THE LIGHTS IN UTES OF NO

OCCUPANCIES SENSOR.

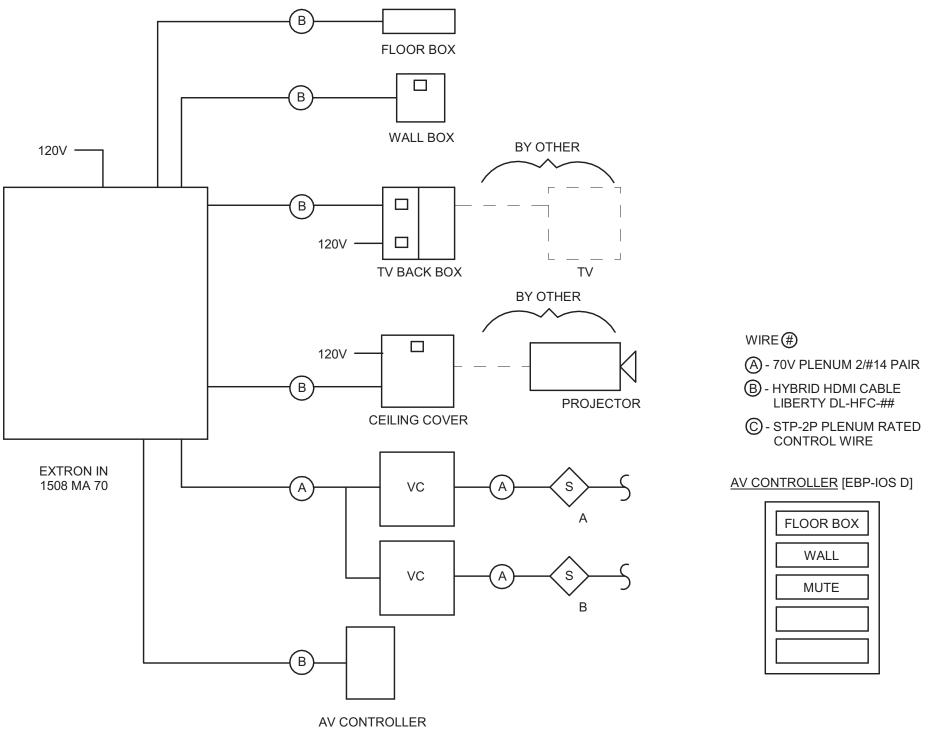


# VESTIBULE, WORK ROOM, CIRCULATION ONE-LINE

# MEETING ROOM CONTROL

	ONTROL DEVICE	BUTTONS	CIRCUIT CONTROL	CONTROL TYPE					
\$	118	а	е	ALL ON/OFF - 100%					
\$	108a	a b	e f	e - ON/OFF - 100% f - ON/OFF - 100%					
\$	108b	a b c d	g,h,j,k,l,m,n,o,p,q,r,s g h s r	all - ON/OFF - 100% g - ON/OFF - 100% h - ON/OFF - 100% s - ON/OFF - 100% r - ON/OFF - 100%					
\$	110k	а	k	k - ON/OFF - 100%					
\$	1101	а	1	I - ON/OFF - 100%					
\$	110m	а	m	m - ON/OFF - 100%					
\$	110n	а	n	n - ON/OFF - 100%					
\$	110o	а	0	o - ON/OFF - 100%					
\$	110p	а	р	p - ON/OFF - 100%					
\$	110q	а	q	q - ON/OFF - 100%					
\$	t	a b	t DIMMER	t - ON/OFF - 100%\ DIM t SWITCH LEG					
ALL LIGHTS SHALL BE CONTROLLED WITH A TIME CLOCK. COORDINATE HOURS WITH OWNER.									

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S - CE

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

VC - VOLUME CONTROLLER- LOWELL 2SLVC

4 A / V WIRE DIAGRAM

E-801 N.T.S.

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DRAWN BY: **TLK**PROJECT NUMBER: **16-1161.04** 

SHEET TITLE:

DETAILS - ELECTRICAL

E-801

3 LIGHTING CONTROLS DIAGRAM

E-801 N.T.S.

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PLAN MAR	K								ST	ARTER					DISCON	IECT			CONTRO	L DEVICE			
	DISCRIPTION /	HORSEPOWER	APPAREN <sup>*</sup> R LOAD	T VOLTAGE	PHASE	NEMA ENCL.	FURNISHED BY	′ INSTALLED E	BY TYPE	NEMA TYPE	AUXILIARY CONTACTS	LOCATION	FURNISHED BY	INSTALLED BY	TYPE	SWITCH SIZE	FUSE SIZE	LOCATION	FURNISHED BY	WIRE BY	PANEL	FEEDER SIZE / RACEWAY	REMARKS
																ı							
AHU 1			33660 VA	208 V	3	NEMA 3R	-	-	-	-	-		EC	EC	NF	200A	NF	ON WALL	MC	MC	MAIN	(3)#2,(1)#6, 1-1/4"C	
AHU 2		-	14508 VA	208 V	3	NEMA 3R	-	-	-	-	-	-	EC	EC	NF	60 A	NF	ON WALL	MC	MC	MAIN	(3)#6,(1)#10G, 3/4" C.	
CU 1			3931 VA	208 V	1	3R	EM	EM	-	-	-	-	EC	EC	NF	30A	-	ON WALL	MC	MC	MAIN	(2)#8,(1)#10G, 3/4" C.	
'	'	-	1	'	'	'	-	'	'	'	'	'	<u>'</u>	1	-	1	'	'	'	-	-	1	
EWH 1		5500W	5500 VA	208 V	1	1	_	_	_	_	_	_	EC	EC	NF	60A	_	ON WALL	MC	MC	MAIN	(2)#8,(1)#10G, 3/4" C.	

# <u>LEGEND</u>

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

ED FRO	DM:		VOLTA	AGE:	120/208	3 Wye					AULT	CURRENT: 16.8 K AIC	NDARD RATING ABOVE CALC CALC	
CKT	DESCRIPTION	NOTES	ОС	Р	,	A	i i	3		С	Р	OC NOTES	DESCRIPTION	
1	AHU-1		110 A	3	11220 VA	4836 VA					3	50 A	AHU-2	
3							11220 VA	4836 VA						
5									11220 VA	4836 VA				
7	NORTHWEST LTS		20 A	1	830 VA	950 VA					1	20 A	NORTHEAST LTS	
9	LTS		20 A	1			1135 VA	1173 VA			1	20 A	LTS	
11	LTS CIRCULATION 107		20 A	1					900 VA	1140 VA	1	20 A	LTS	_
13	LTS Room 100, 107		20 A	1	979 VA	1000 VA				1111	1	20 A	ADA DOOR	_
15	FIRE PLACE		20 A	1	0.0.7.		180 VA	1000 VA			1	20 A	MEN HAND DRYER	$\overline{}$
17	REC BRK RM 111		20 A	1			100 171	1000 171	720 VA	61 VA	1	20 A	EGRESS LIGHTING AND EXIT SIGN	
19	BUILDING REC		20 A	1	1080 VA	180 VA			720 171	01 771	1	20 A	BREAKROOM REFIGERATOR REC 111	
21	REC STUDY 113 & 114		20 A	1	1000 171	100 171	1080 VA	540 VA			1	20 A	REC ELEC RM 115	_
23	WORKROOM COUNTER REC		20 A	1			.555 7/1	5 10 V/ (	1080 VA	540 VA	1	20 A	BUILDING REC	+
25	REC CIRCULATION 107		20 A	1	1080 \/Δ	900 VA			1000 VA	0 10 1/1	1	20 A	REC OFFICE 112	+
27	REC CIRCULATION 107		20 A	1	.555 7/1	555 V/1	900 VA	900 VA			1	20 A	REC CIRCULATION 107	+
29	REC VESTIBULE 100		20 A	1			300 V/ C	300 771	540 \/Δ	1260 VA	1	20 A	REC CIRCULATION 107	_
31	REC MEETING ROOM 106A		20 A	1	1080 VA	720 VA			040 771	1200 V/1	1	20 A	REC CIRCULATION 100 & 107	-
33	REC CIRCULATION 107		20 A	1	1000 VA	120 VA	360 VA	720 VA			1	20 A	REC MEETING ROM 106A	-
35	REC CIRCULATION 107		20 A	1			300 VA	120 VA	900 VA	720 VA	1	20 A	REC MEETING ROOM 106A	_
37	FC-1		15 A	1	500 VA	360 VA			300 VA	720 VA	2	20 A	REC CIRCULATION 107 FLOORBOXES	_
30	IT RACK AND WALL		20 A	1	300 VA	300 VA	540 VA	360 VA					INCCURCULATION 107 1 EOONBOXES	
41	REC MEETING ROOM 106A		20 A	1			340 VA	300 VA	720 VA	720 VA	1	20 A	REC MEETING ROOM 106A	_
43	REC		20 A	1	180 VA	180 VA			720 VA	720 VA	1	20 A	REC REC	-
	BUILDING MOUNT LTS			1	100 VA	100 VA	514 VA	500 VA				20 A	GEN	_
45	SITE LTS		20 A	1			314 VA	300 VA	254.1/4	1000 VA	1	20 A	WOMEN HAND DRYER	_
47			20 A	1	0750 \ / A	1000 \ / \			231 VA	1000 VA	1			_
49	EWH-1		35 A	2	2/50 VA	1966 VA	2750 \/A	1066 \/A			2	35 A	CU-1	+
51	 ADA DOOD						2750 VA	1966 VA	4000 \/A	1000 \/A			 ADA BOOD	_
53	ADA DOOR		20 A	1	0.1/4	0.1/4			1200 VA	1200 VA	1	20 A	ADA DOOR	_
55	SPARE		20 A	1	0 VA	0 VA	0.1/4	0.1/4			1	20 A	SPARE	_
57	SPARE		20 A	1			0 VA	0 VA	0.1/4	0.1/4	1	20 A	SPARE	_
59	SPARE		20 A	1	0.1/4	0.1/4			0 VA	0 VA	1	20 A	SPARE	
61	SPARE		20 A	1	0 VA	0 VA	0.1/4	0.1/4			1	20 A	SPARE	_
63	SPARE		20 A	1			0 VA	0 VA	0.1/4	0.1/4	1	20 A	SPARE	_
65	SPARE		20 A	1	0.1/4	0.1/4			0 VA	0 VA	1	20 A	SPARE	
67	SPARE		20 A	1	0 VA	0 VA	0.1/2	0.144			1	20 A	SPARE	$\overline{}$
69	SPARE		20 A	1			0 VA	0 VA	0.1/2	0.146	1	20 A	SPARE	
71	SPARE		20 A	1	0.175	0.174			0 VA	0 VA	1	20 A	SPARE	_
73	SPARE		20 A	1	0 VA	0 VA	0.172	0.174			1	20 A	SPARE	$\perp$
75	SPARE		20 A	1			0 VA	0 VA	0.1/2	0.146	1	20 A	SPARE	$\perp$
77	SPARE		20 A	1	0.1/2	0.175			0 VA	0 VA	1	20 A	SPARE	
79	SPARE		20 A	1	0 VA	0 VA	0.175	0.1/4			1	20 A	SPARE	_
81	SPARE		20 A	1			0 VA	0 VA	0.1/2	0.146	1	20 A	SPARE	$\perp$
83	SPARE		20 A	1		10.142		14.372	0 VA	0 VA	1	20 A	SPARE	
						90 VA 9 A		'4 VA 8 A	1	08 VA 2 A				
	TOTAL CONNECTED	LOAD: 90471 VA									TOTA	AL CONNECTED AMPS:	251 A	
	TOTAL DEMAND											TOTAL DEMAND AMPS:		



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ENGINEER OF RECORD:

PRELIMINARY NOT FOR CONSTRUCTION

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BRIC MO CERTIFICATE OF
AUTHORITY 2002028690

04/14/17	ISSUED FOR BID

DRAWN BY: **TLK**PROJECT NUMBER: **16-1161.04** 

SHEET TITLE:
SCHEDULES - ELECTRICAL

E-901