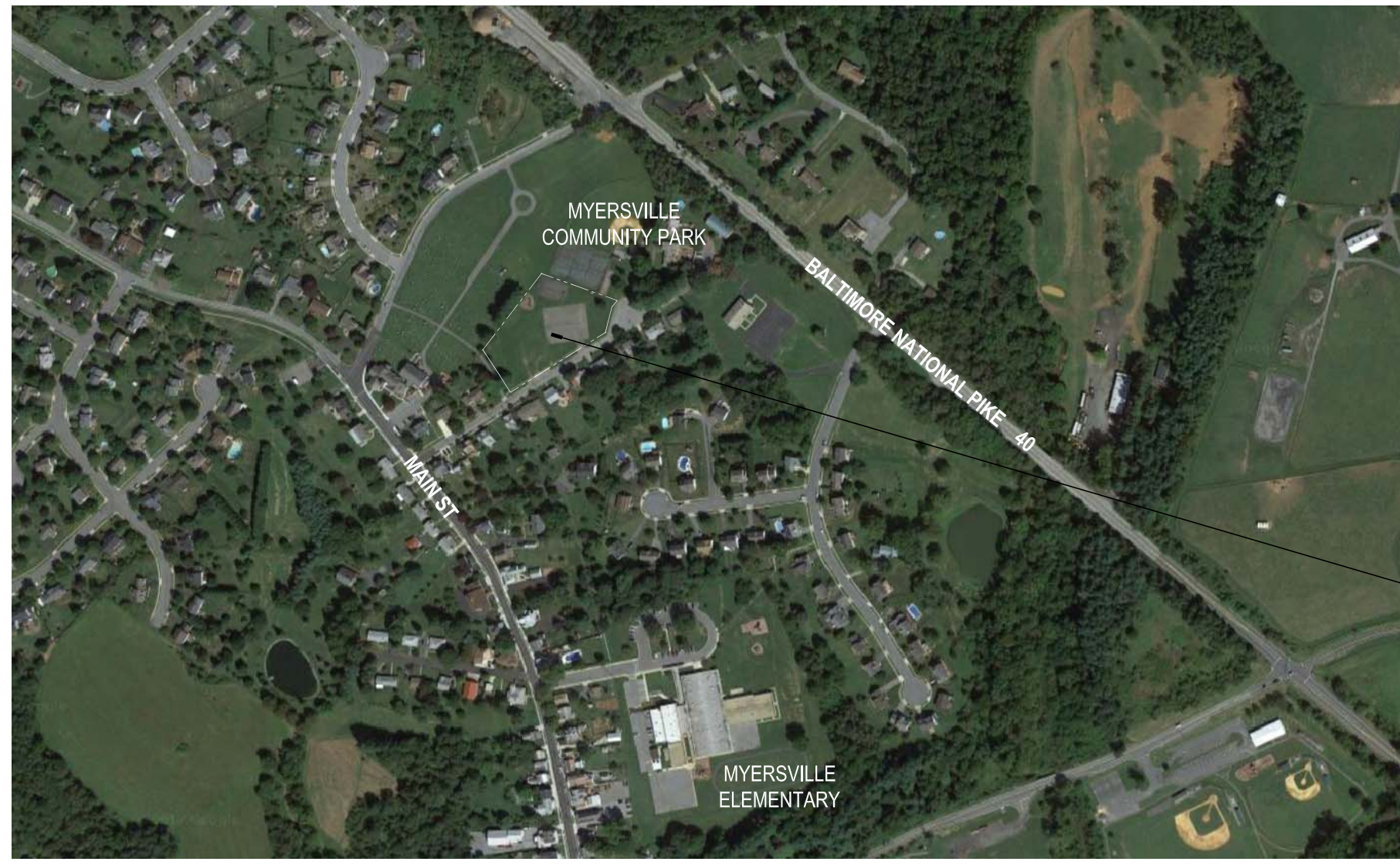
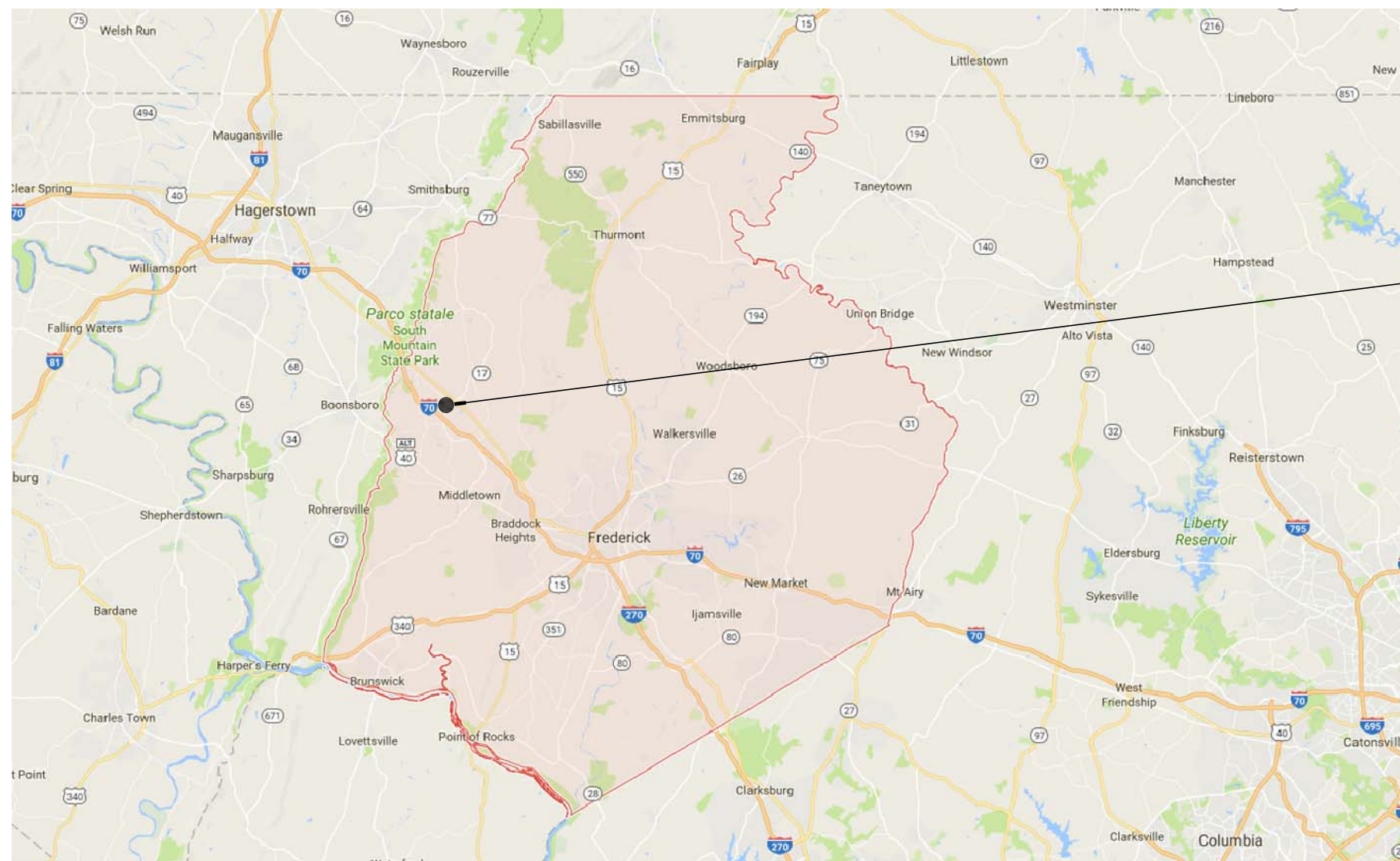


LOCAL MAP - MYERSVILLE



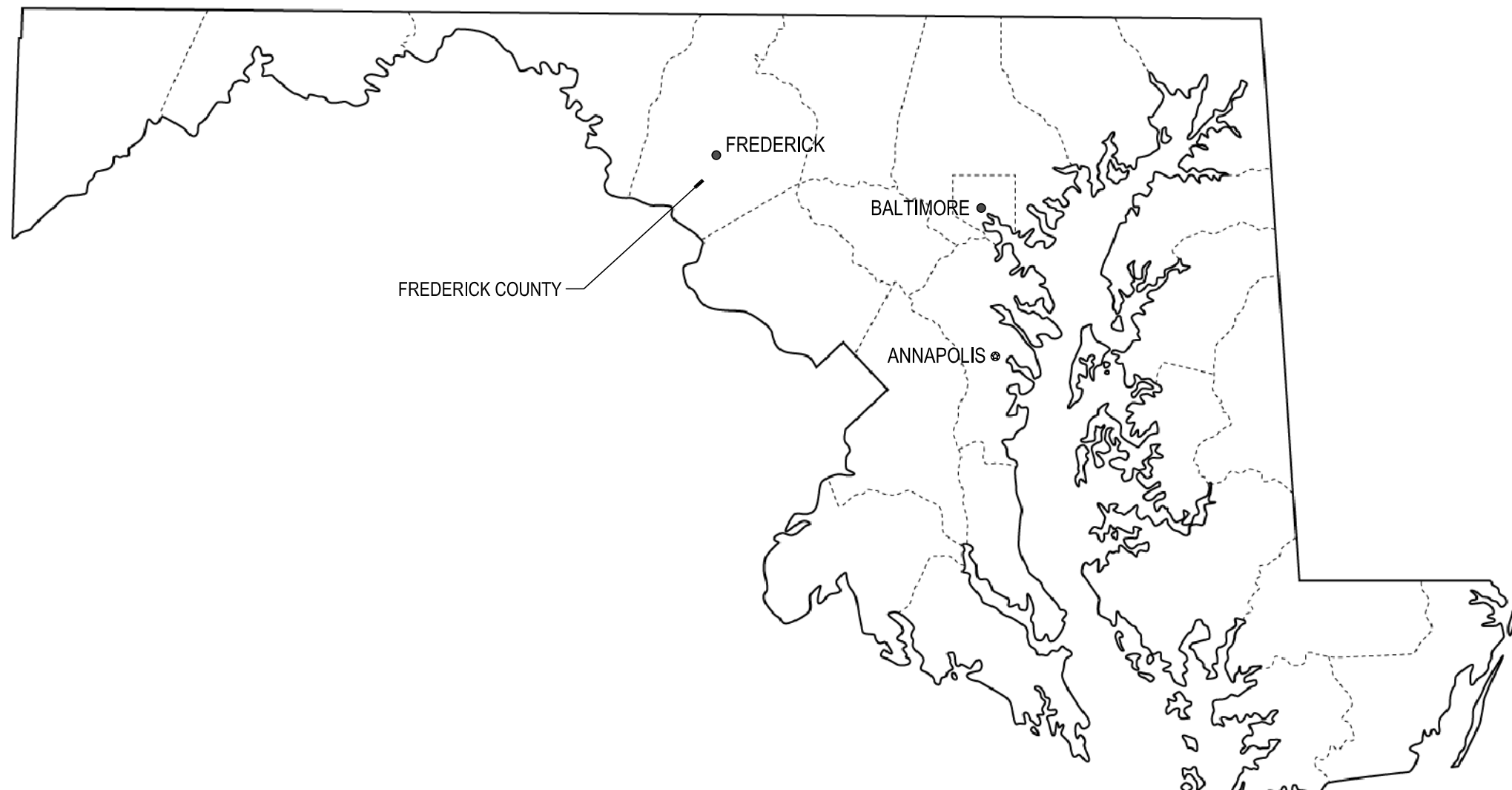
PROJECT SITE

VICINITY MAP - FREDERICK COUNTY



MYERSVILLE

STATE MAP - MARYLAND



NEW MYERSVILLE COMMUNITY LIBRARY MYERSVILLE, MARYLAND



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CIVIL	A300 DOOR SCHEDULE, TYPES AND DETAILS	S3.1 SECTIONS	E301 FIRST FLOOR PLAN-POWER AND SYSTEMS
C-1 COVER SHEET	A301 WINDOW TYPES AND DETAILS	S3.2 SECTIONS	E302 FIRST FLOOR PLAN- MECHANICAL POWER
C-2 TYPICAL SECTIONS, NOTES AND DETAILS	A400 EXTERIOR ELEVATIONS	S4.1 TYPICAL DETAILS	E401 PART PLAN LOFT-ELECTRICAL
C-3 DEMOLITION PLAN	A401 BUILDING SECTIONS	S5.1 GENERAL NOTES	E501 FIRST FLOOR PLAN-FIRE ALARM
C-4 GRADING AND STORM DRAIN PLAN	A500 WALL SECTIONS	MECHANICAL	E601 LIGHTING SCHEDULE AND CONTROL DIAGRAMS
C-5 DIMENSION PAVING AND UTILITY PLAN	A501 WALL SECTIONS	M001 SYMBOLS, ABBREVIATIONS AND NOTES	E602 LIGHTING CONTROL DIAGRAMS
C-6 ADD ALTERNATE PLANS	A502 WALL SECTIONS	M201 FIRST FLOOR PLAN-MECHANICAL	E701 SYMBOLS, ABBREVIATIONS AND NOTES
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C-10 SEDIMENT AND EROSION CONTROL NOTES AND DETAILS	A506 WALL SECTIONS	M701 MECHANICAL SCHEDULES	
C-11 STORM WATER MANAGEMENT PLAN	A507 WALL SECTIONS	PLUMBING	
C-12 STORM WATER MANAGEMENT NOTES AND DETAILS	A600 DETAILS	P001 PLUMBING SYMBOLS, ABBREVIATIONS AND NOTES	
C-13 LANDSCAPE PLAN	A700 ENLARGED FLOOR PLANS	P201 FLOOR PLANS - PLUMBING	
ARCHITECTURAL	A800 INTERIOR ELEVATIONS AND CASEWORK DETAILS	P701 PLUMBING DETAILS AND SCHEDULES	
CA1 CODE ANALYSIS PLAN	1000 FINISH SCHEDULE AND FINISH PLANS	ELECTRICAL	
A100 FLOOR PLAN AND LOFT PLAN	STRUCTURAL	E001 SYMBOLS, ABBREVIATIONS AND NOTES	
	S1.1 FOOTING AND FOUNDATION	E002 SITE PLAN- ELECTRICAL	

FREDERICK COUNTY DIVISION OF PUBLIC WORKS

REVIEWED: Charles F. Nipe, Director DATE

REVIEWED: Tyler Muntz, Project Manager DATE

The above signatures are for the County's purposes of indicating the design complies with the program objectives and to authorize the project to proceed to the next stage in the construction procurement process. The review does not in any way relieve the Architect/Engineer of their responsibility for the professional quality, technical adequacy, and coordination of all designs, drawings, specifications, and other services furnished under this contract.

LIST OF ABBREVIATIONS

& AND	CAB CABINET	E EAST	FTG FOOTING	LAM LAMINATE	PC PLUMBING CONTRACTOR	SR SHEET RUBBER	VENT VENTILATED
∠ ANGLE	CB CATCH BASIN	EA EACH	FURR FURRING	LAV LAVATORY	PRCST PRE-CAST	SS STAINLESS STEEL	VERT VERTICAL
∅ AT	CCB CURTAIN TRACK	EC ELECTRICAL CONTRACTOR	FUT FUTURE	LHT LIGHT	PLATE PLASTER	STA STATION	VEST VESTIBULE
⊕ CENTERLINE	CEM CEMENT	ELEV ELEVATION		LV LATH	PLAST PLASTER	STD STANDARD	YGBB VINYL COATED GYPSUM BOARD
⊙ DIAMETER OR ROUND FOUND OR NUMBER	CI CAST IRON	ELEC ELECTRICAL		MAX MAXIMUM	PLYWD PLYWOOD	STL STEEL	W WEST
AC/W ALUMINUM CLAD WOOD WINDOW	CJ CONTROL JOINT	EMER EMERGENCY	GA GAUGE	MC MECHANICAL CONTRACTOR	PR PRESSURE TREATED	STR STRUCTURAL	WC WATER CLOSET
AD ACQUIS	CLG CAULKING	ENCL ENCLOSURE	GC GALVANIZED	MECH MED. CAB.	PT POINT	SUSP SUSPENDED	WD WOOD
ADJ ADJUSTABLE	CLR CLEAR	EQ EQUAL	GL GLASS	MEMB MEMBRANE	R RISER	SYM SYMMETRICAL	WG WIRED GLASS
AFF ABOVE FINISHED FLOOR	CMU CONCRETE MASONRY UNIT	EQUIP EQUIPMENT	GR GRADE	MTL METAL	R & S ROD & SHELF	SYS SYSTEM	WIO WITHOUT
ALUM ALUMINUM	CONTR COUNTER	EXST EXISTING	GYP GYPSUM	MANUF MANUFACTURE	RD RADIUS	T TREAD	WSCOT WANGSCOAT
APPROX APPROXIMATE	COL COLUMN	EXP EXPANSION	HB HOSE BIB	MIN MINIMUM	RECPT RECEPTACLE	TOF TOP OF FOOTING	WT WEIGHT
ASB ASBESTOS	CONC CONCRETE	EXT EXTERIOR	HC HOLLOW CORE	MIR MIRROR	REF REFRIGERATOR	T&G TONGUE & GROOVE	WWF WELDED WIRE FABRIC
ASP ASPHALT	CONN CONNECTION	EWG EXPOSED WATER COOLER	HDOP HANDICAP	MISC MISCELLANEOUS	REINF REINFORCED	THK THICK	
BOC BOARD	CONSTR CONSTRUCTION	FD FLOOR DRAIN	HWD HARDWOOD	MO MOISTURE RESISTANT	REQ REQUIRED	TO TOP OF	
BOF BOTTOM OF FOOTING	CONT CONTINUOUS	FE FOUNDATION	HM HOLLOW METAL	MTD MOUNTED	RM ROOM	TOP OF WALL	
BITUM BITUMINOUS	CORR CORR	FE FIRE EXTINGUISHER	HGT HEIGHT	MUL MULLION	ROF ROOF OPENING	TP TOP OF FAVEMENT	
BLDG BUILDING	CY CUBIC YARD	FEC FIRE EXTINGUISHER CABINET	HOR HORIZONTAL		ROF ROOF	TPG TEMPERED PLATE GLASS	
BLK BLOCK	DBL DOUBLE	FHC FIRE HOSE CABINET	ID INSIDE DIAMETER		ROF ROOF	TV TELEVISION	
BM BEAM	DF DRINKING FOUNTAIN	FINSH FINISH	INSUL INSULATED HOLLOW METAL		ROF ROOF	TWF THRU WALL FLASHING	
BOT BOTTOM	DET DETAIL	FL FLOOR	INT INTERIOR		ROF ROOF	TYP TYPICAL	
BRT BEARING	DIA DIAMETER	FLR FLOURESCENT	INV INVERT		ROF ROOF	UC UNDERCUT	
BRK BRICK	DISP DISPENSER	FACE OF FLOURESCENT	ITG INSULATED TEMPERED PLATE GLASS		ROF ROOF	UNF UNFINISHED	
BW BETWEEN	DN DOWN	FR FIRE RATING	JAN JANITOR		ROF ROOF	UNF UNFINISHED	
	DR DOOR	FRGS FIRE RATED GLAZING SYSTEM	JOINT JOINT		ROF ROOF	UNF UNFINISHED	
	DS DOWNSPOUT	FRFT FIRE RETARDANT TREATED FOOT OR FEET	OPNG OPENING		ROF ROOF	UNF UNFINISHED	
	DWG DRAWING	FT FT	OPP OPPOSITE		ROF ROOF	UNF UNFINISHED	
			KIT KITCHEN		ROF ROOF	UNF UNFINISHED	

SYMBOLS & MATERIALS KEY

SAMPLE ROOM NUMBER	DETAIL KEY	EARTH	STEEL
100 DOOR MARK	BUILDING SECTION KEY OR WALL SECTION KEY	GRAVEL	ROUGH WOOD OR BLOCKING
101 PARTITION TYPE	INTERIOR AND EXTERIOR ELEVATION KEY	CONCRETE	CONTINUOUS WOOD BLOCKING
102 TOILET ACCESSORY	CONTROL OR WORK POINT	GROUT, MORTAR, CEMENT	FINISHED WOOD
103 WINDOW DETAILING	REVISION	CONCRETE BLOCK	BATT INSULATION
104 WINDOW TYPE	OCCUPANT COUNT	FACE BRICK	ACOUSTICAL TILE
105 STOREFRONT TYPE	OCCUPANT LOAD	FACE STONE	RIGID INSULATION
106 WINDOW GLAZING			PLYWOOD
107 APPLIANCE TYPE			
108 DEMOLITION NOTE			
109 COLUMN BUBBLE			

PROJECT INFORMATION

MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
8 HARP PLACE
MYERSVILLE, MD 21773

PROJECT OWNER
FREDERICK COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

PROJECT TEAM

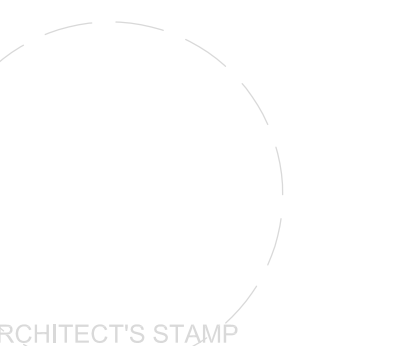
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NOELKER AND HULL ASSOCIATES, INC.
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HARRIS, SMARIGA & ASSOCIATES, INC.
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P: 301.662.4488 | F: 301.662.4906



SHEET INFORMATION

KEY PLAN

REVISIONS

REV. #:	DESCRIPTION:	DATE:

PROJECT STATUS

JOB NUMBER: 17905
ISSUE DATE: 10 APRIL 2018
SCALE: AS INDICATED

COVER SHEET

SHEET NUMBER:

CS1

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SWM DEVELOPMENT / IMPROVEMENT PLANS

FOR

MYERSVILLE LIBRARY

JANUARY 2018

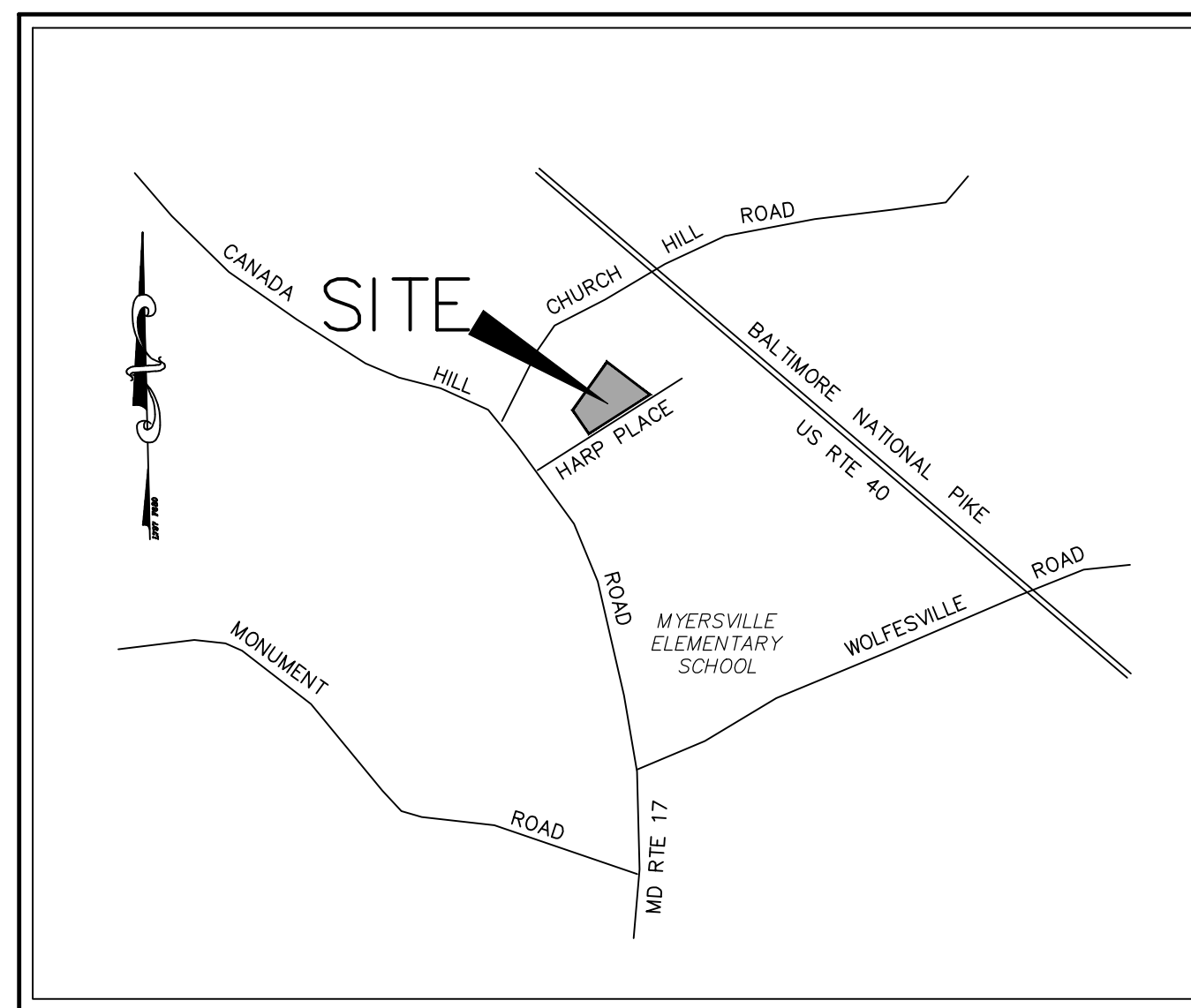
PREPARED FOR:
OWNER / DEVELOPER:

FREDERICK COUNTY
C/O TYLER MUNTZ
WINCHESTER HALL
12 E. CHURCH ST.
FREDERICK, MD 21701

PREPARED BY:

HARRIS SMARIGA
PLANNERS • ENGINEERS • SURVEYORS

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MARYLAND 21701
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VICINITY MAP
SCALE 1"=1,000'±
TAX MAP 70 P/O PARCEL 320
TAX ID #16-355941

Sheet List Table	
Sheet Number	Sheet Title
C-1	COVER SHEET
C-2	TYPICAL SECTIONS, NOTES, AND DETAILS
C-3	DEMOLITION PLAN
C-4	GRADING AND STORM DRAIN PLAN
C-5	DIMENSION PAVING AND UTILITY PLAN
C-6	ADDITIONAL PARKING AND HARP PLACE MILL AND OVERLAY PLANS
C-7	WATER AND SEWER PROFILES
C-8	STORM DRAIN PROFILES
C-9	SEDIMENT AND EROSION CONTROL PLAN
C-10	SEDIMENT AND EROSION CONTROL NOTES AND DETAILS
C-11	STORMWATER MANAGEMENT PLAN
C-12	STORMWATER MANAGEMENT NOTES AND DETAILS
C-13	LANDSCAPE PLAN

LEGEND

	EXISTING	PROPOSED
INTERIOR LOT LINE	---	---
R/W-PROPERTY LINE	---	---
CENTERLINE	---	---
EASEMENTS	---	---
CURBING AND CURB & GUTTER	---	---
BUILDINGS	[]	[]
SPOT ELEVATIONS	+296.0	+96.0
BENCH MARK	▲	▲
CONTOURS	310	310
STORM DRAIN	---	---
SANITARY SEWER	SS	SS
WATER LINES	W	W
U/G GAS, ELEC. OR TELEPHONE	G, E, T.	G, E, T.
OVERHEAD ELEC. LINES	---	---
DRAINAGE FLOW & DIRECTION	→	→
MANHOLE	○	○
INLETS	□	□
PLUG OR CAP	+	+
WATER VALVE	⋈	⋈
FIRE HYDRANT	⋈	⋈
UTILITY POLE	⊕	⊕
LIGHT POLE	⊕	⊕
SANITARY SEWER LATERALS	---	---
WATER LATERALS	---	---
REDUCER	---	---
FENCE	---	---
CONCRETE	[]	[]
LIMIT OF DISTURBANCE	SF	SF
SILT FENCE	ED/A-1	ED/A-1
EARTH DIKE	SCE	SCE
STONE CHECK DAM	[] SIP, CIP, AGIP	[] SIP, CIP, AGIP
STABILIZED CONSTRUCTION ENTRANCE	[]	[]
INLET PROTECTION	[]	[]
ROCK OUTLET PROTECTION	[]	[]
SUPER SILT FENCE	SSP	SSP
TEST PIT	TP	TP
CURLEX MATTING	[]	[]

OWNER/DEVELOPER CERTIFICATION
I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

I/WE UNDERSTAND THAT AS-BUILT PLANS MUST BE SUBMITTED AND APPROVED FOLLOWING CONSTRUCTION OF THE STORM WATER MANAGEMENT POND AND THAT CONSTRUCTION MUST BE SUPERVISED BY A REGISTERED PROFESSIONAL ENGINEER.

Tyler Muntz
OWNER/DEVELOPER (NAME & TITLE PRINTED)
301-662-2999
(SIGNATURE) TELEPHONE

ENGINEER'S CERTIFICATION
I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH LOCAL ORDINANCES, COMAR 26.17.01 AND 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

Monty A. Smariga
SIGNATURE REG. NO. 28643

THE TOTAL AREA TO BE DISTURBED SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE APPROXIMATELY 79,858 SQ.FT. (1.83 AC.) AND THE TOTAL AMOUNT OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO BE APPROXIMATELY 1,985 CU.YDS. OF EXCAVATION AND APPROXIMATELY 310 CU.YDS. OF FILL.

SIGNATURE: Tyler Muntz DATE: 3/8/18
PRINT NAME: Tyler A. Muntz DATE: _____
DISTURBED AREA QUANTITY
NOT FOR BIDDING PURPOSES

CATOCCTIN SOIL CONSERVATION DISTRICT
APPROVED BY: [Signature] DISTRICT MANAGER
DATE: 4/4/18

S.C.D. APPROVAL FOR SEDIMENT AND EROSION CONTROL IS CONTINGENT UPON ISSUANCE OF ALL APPLICABLE REGULATORY PERMITS.

Monty A. Smariga 2-20-18
MYERSVILLE PLANNING COMMISSION CHAIRMAN DATE



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 28643 Expiration Date 3-26-19

SWM ONLY
FREDERICK COUNTY, MARYLAND
DEVELOPMENT REVIEW ENGINEERING

APPROVED: [Signature] DATE: _____
DEVELOPMENT REVIEW CHIEF

APPROVED: [Signature] DATE: _____
STORMWATER MANAGEMENT

REVIEWED IN ACCORDANCE WITH LOCAL COUNTY REQUIREMENTS. FREDERICK COUNTY ASSUMES NO LIABILITY FOR DESIGN AND/OR CONSTRUCTION. APPROVAL IS VALID FOR TWO (2) YEARS AFTER THE LAST DATE SHOWN ABOVE. THE PROJECT MUST BE UNDER CONSTRUCTION BEFORE THE APPROVAL EXPIRES. TO BE CONSIDERED ACTIVE, OTHERWISE, RESUBMITTAL OF PLANS, INCLUDING APPLICABLE FEES, MUST BE MADE TO DEVELOPMENT REVIEW FOR REAPPROVAL. FEES FOR RESUBMITTAL CANNOT BE WAIVED.

REV #	DATE	REVISION DESCRIPTION	CONSULTANT DATE AND INITIAL	DEV. REVIEW DATE AND INITIAL

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FREDERICK, MD 21701
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F. 301.662.4906
www.harris-smariga.com

HARRIS SMARIGA
PLANNERS • ENGINEERS • SURVEYORS

REVISIONS:
03.09.18 REVISED PER COUNTY AND SCD COMMENTS
04.10.18 ADDRESS COUNTY, LOCAL COMMENTS

COVER SHEET

MYERSVILLE LIBRARY

SITUATED ON HARP PLACE, LOT 1 - PB, 9B, P-42
JACKSON ELECTION DISTRICT NO. 16
FREDERICK COUNTY, MARYLAND

SCALE: N/A
DRAWN: RLP
BY: RLP
CHECKED: D.Y. MAM
DATE: JAN. 2018
SHEET: C-1
OF: 12
PROJECT: 7573
C-1

PROJECT INFORMATION
PROJECT TITLE
MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
8 HARP PLACE
MYERSVILLE, MD 21773

PROJECT OWNER
FREDERICK COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

PROJECT TEAM
ARCHITECT

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ARCHITECT'S STAMP

SHEET INFORMATION
KEY PLAN

REVISIONS

REV. #	DESCRIPTION	DATE

PROJECT STATUS

JOB NUMBER: 17905
ISSUE DATE: 10 APRIL 2018
SCALE:
SHEET TITLE:
SHEET NUMBER:

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MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
8 HARP PLACE
MYERSVILLE, MD 21773

PROJECT OWNER
FREDERICK COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

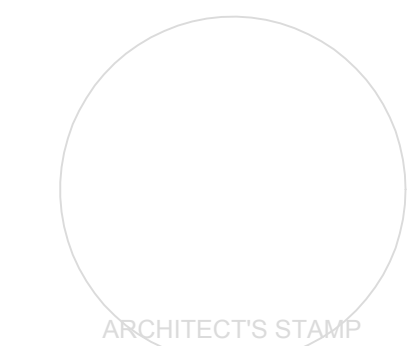
PROJECT TEAM
ARCHITECT

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ARCHITECT'S SEAL

SHEET INFORMATION
KEY PLAN

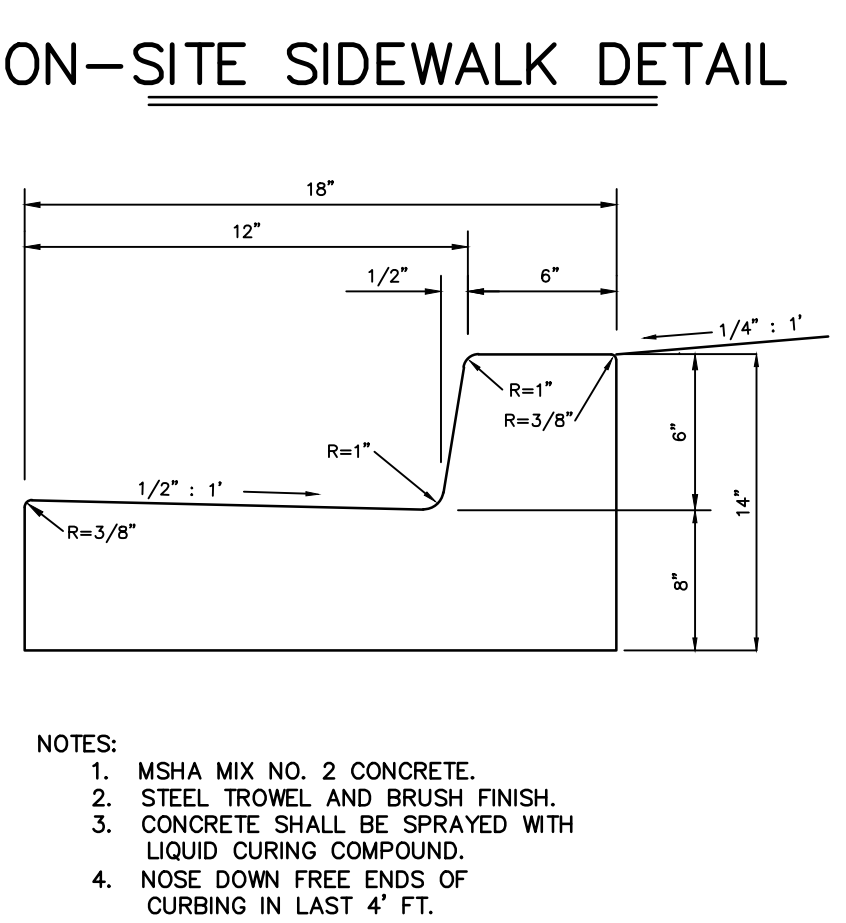
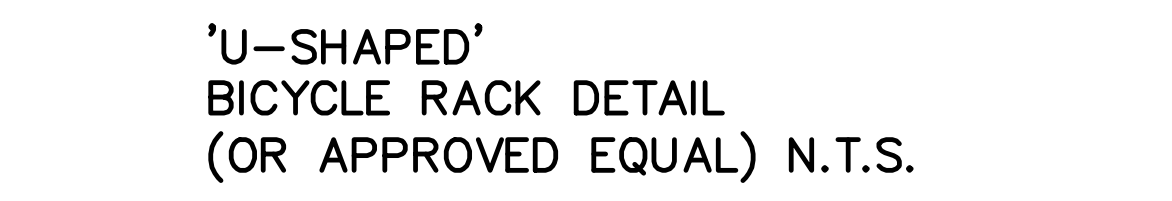
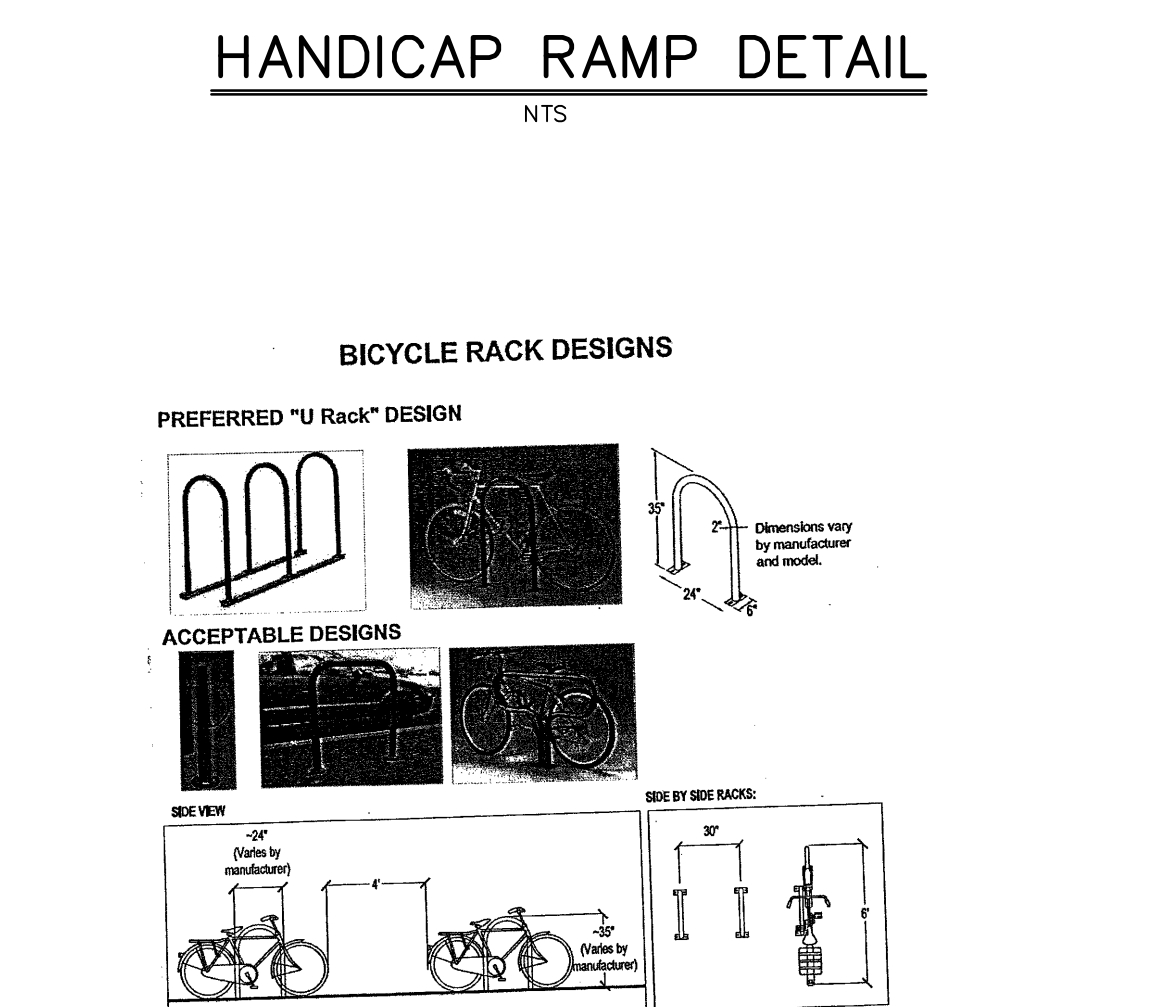
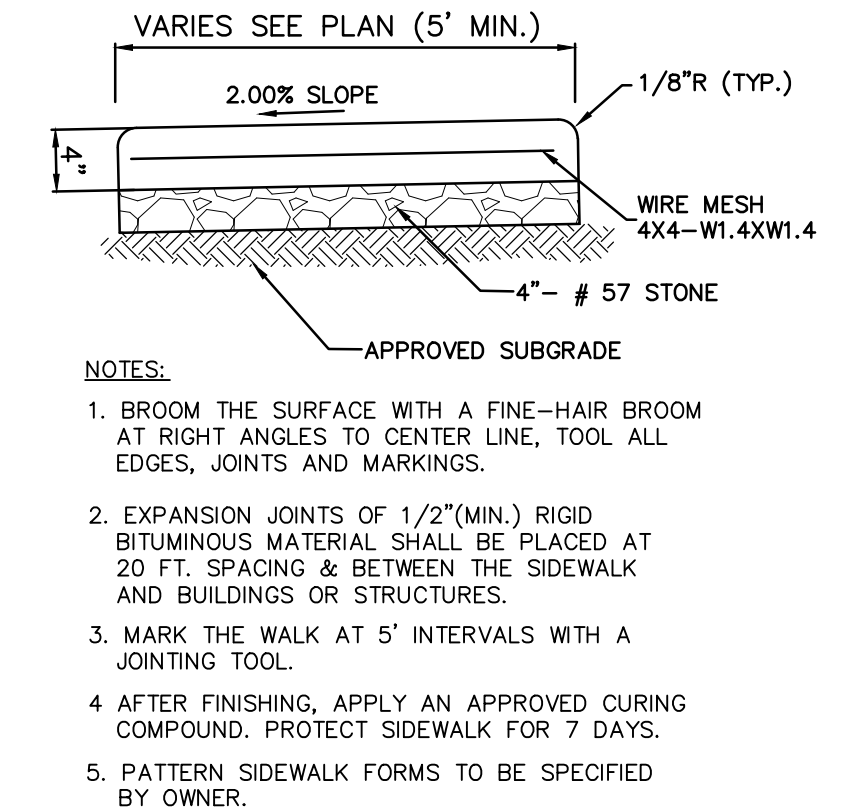
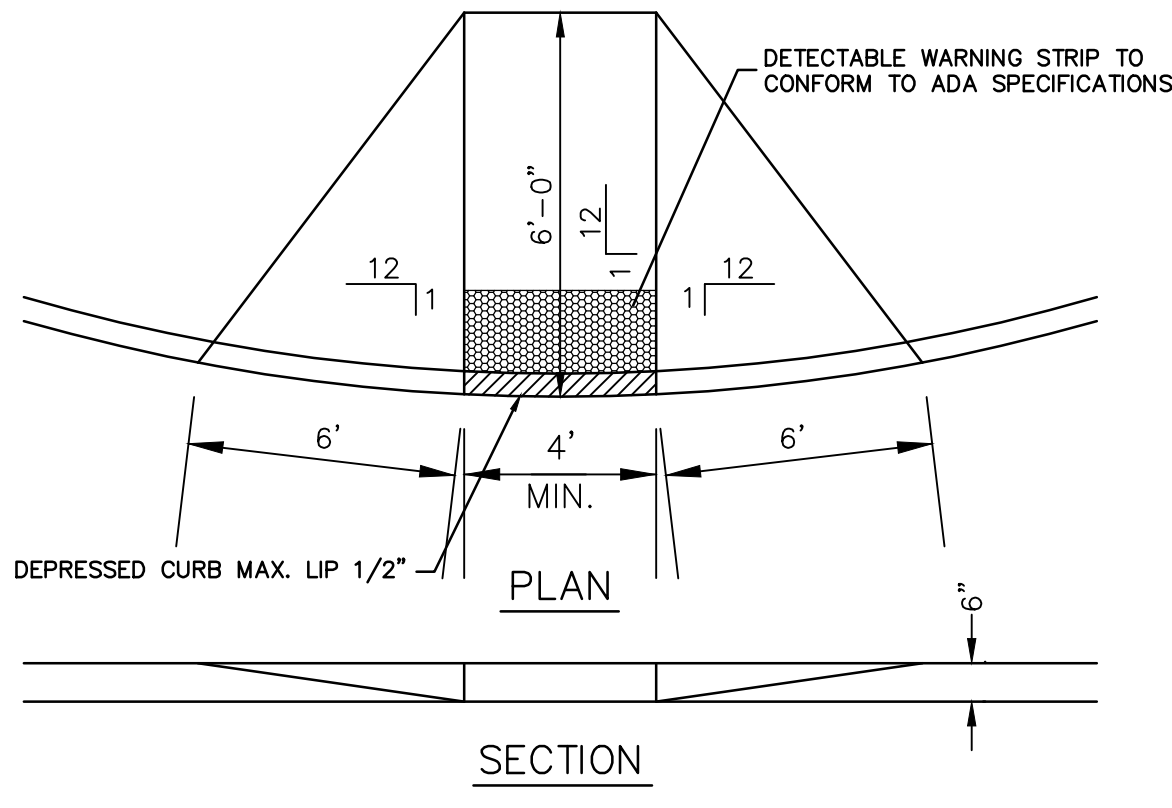
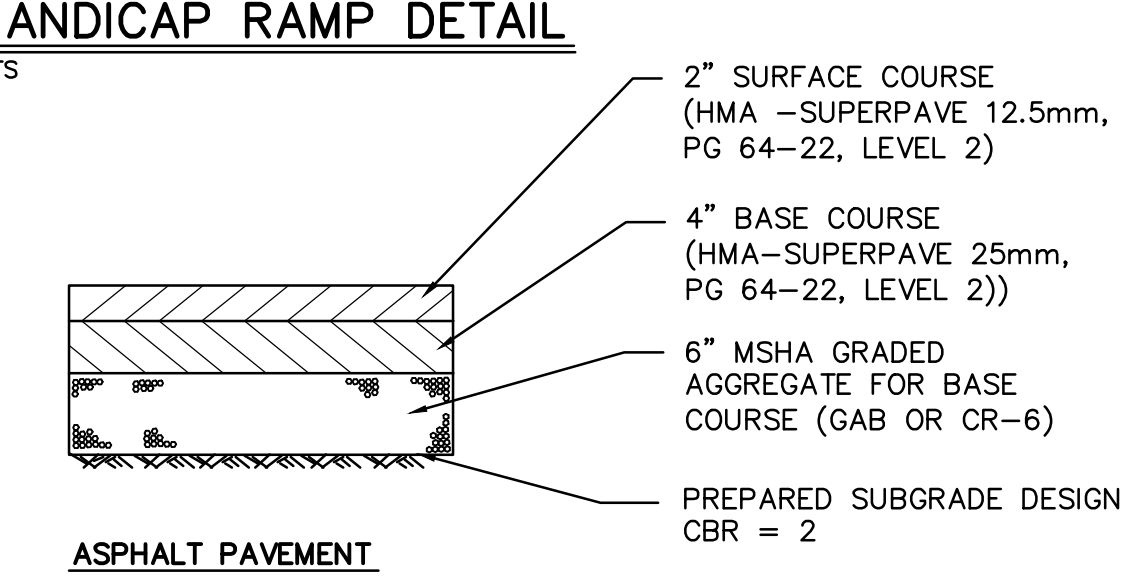
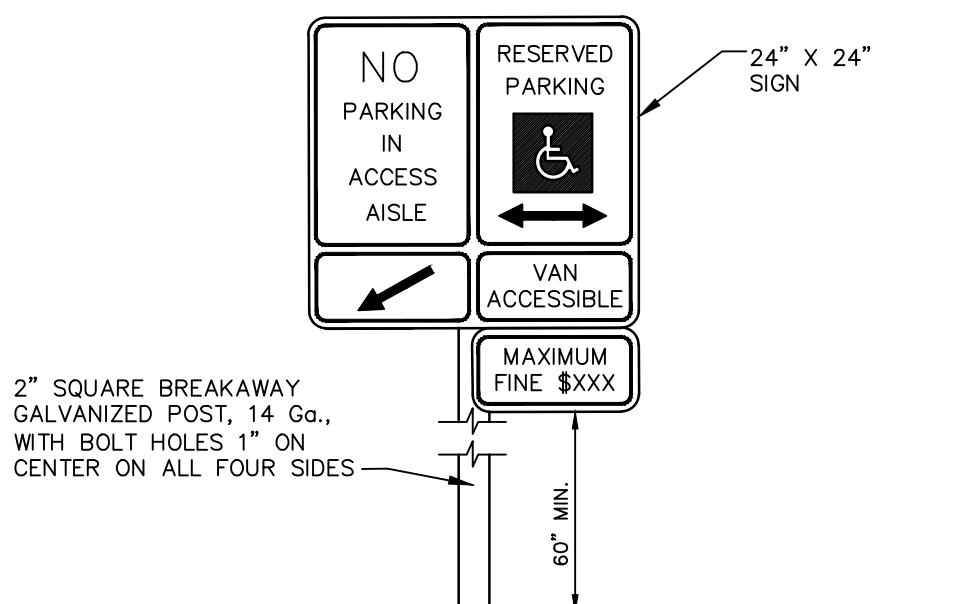
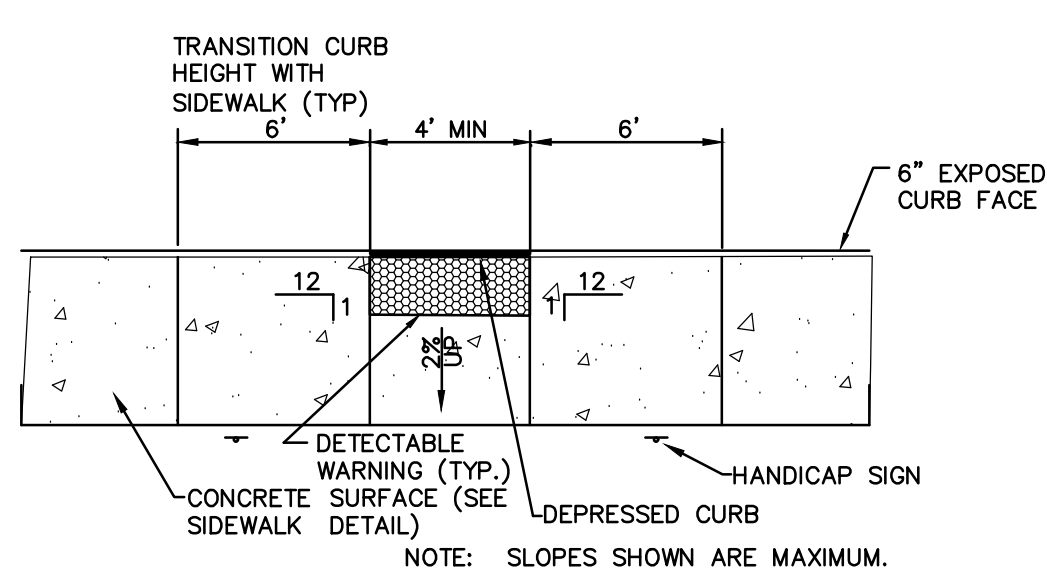
REVISIONS		
REV. #:	DESCRIPTION:	DATE:

PROJECT STATUS

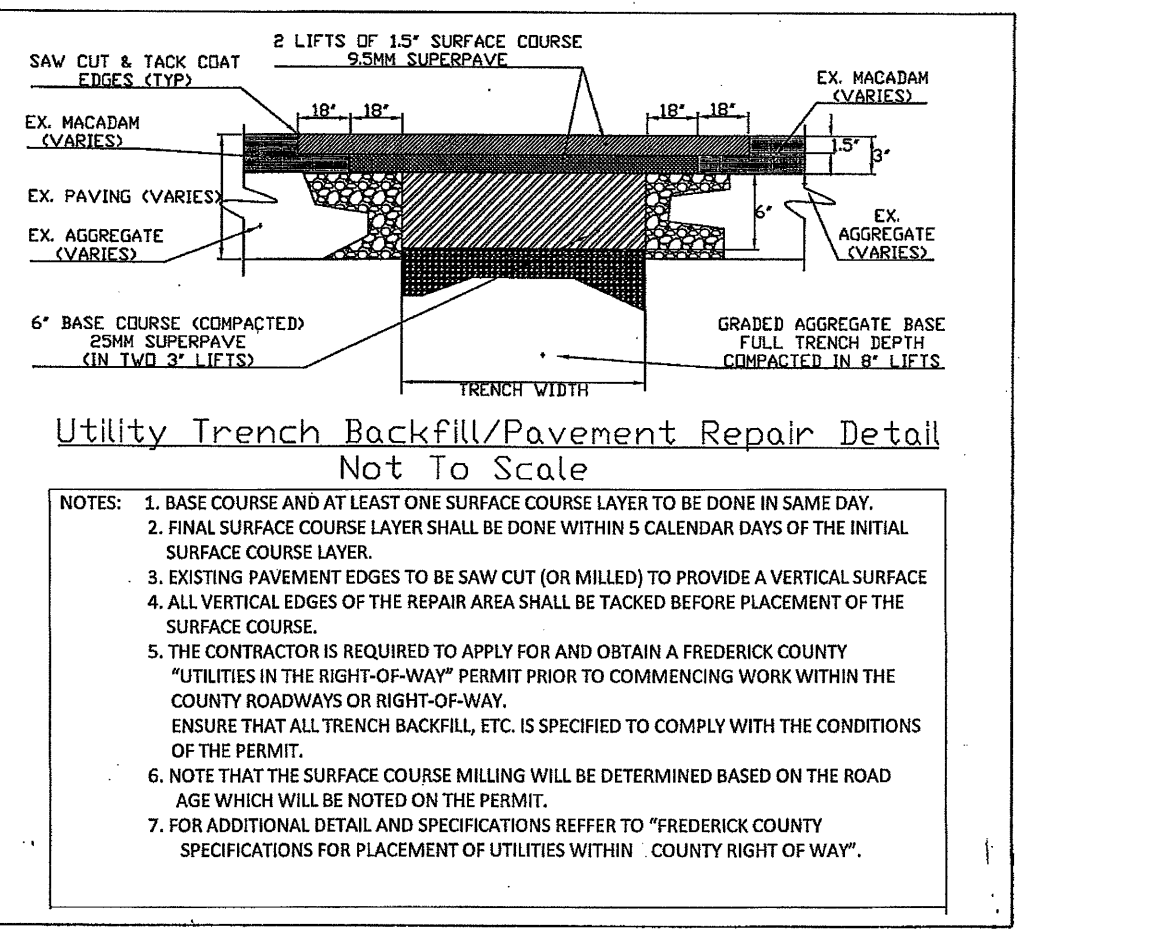
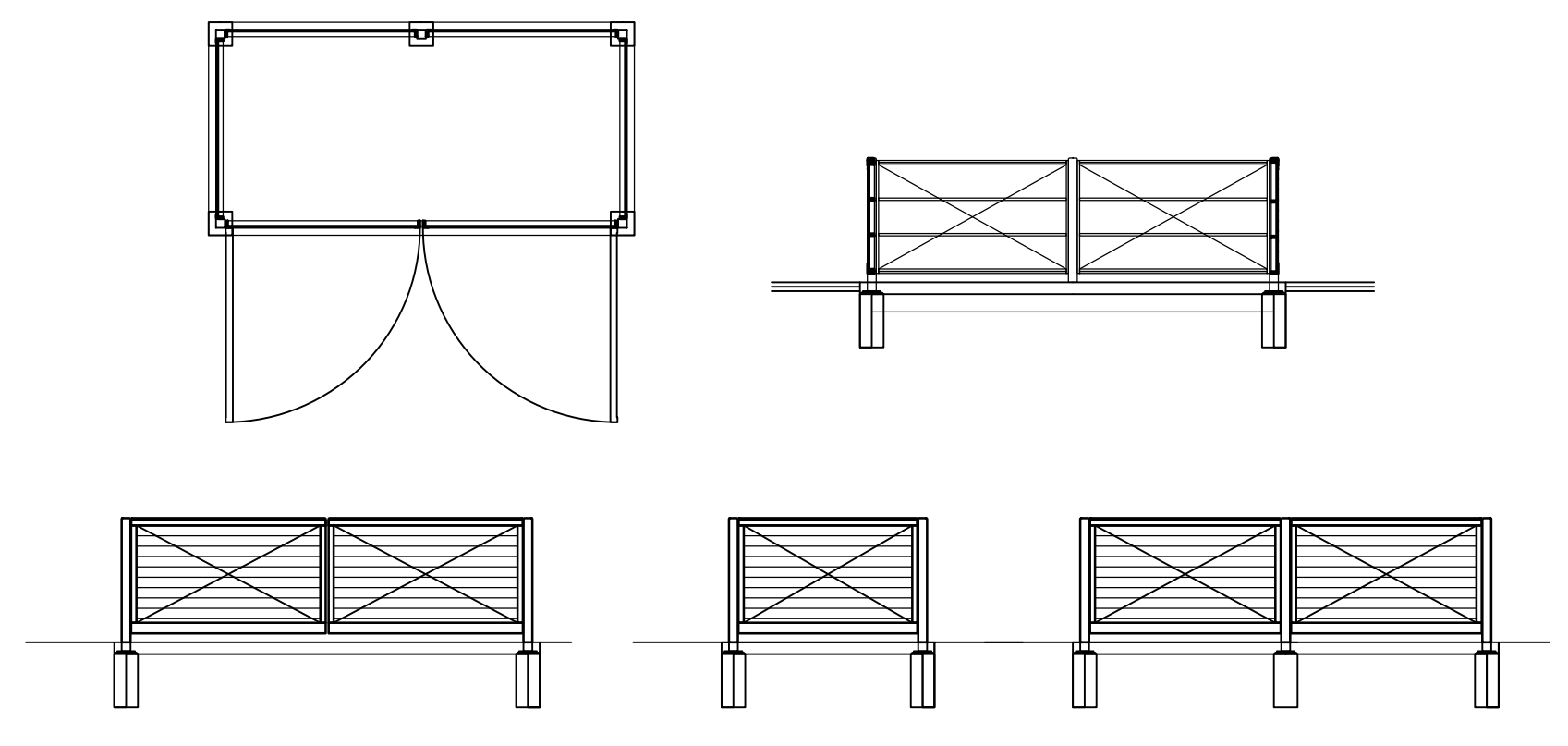
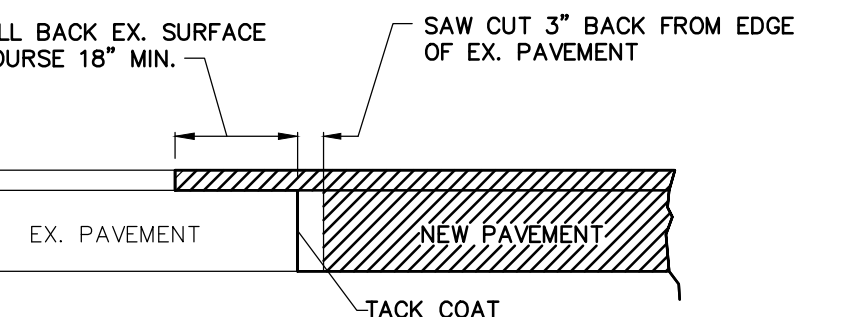
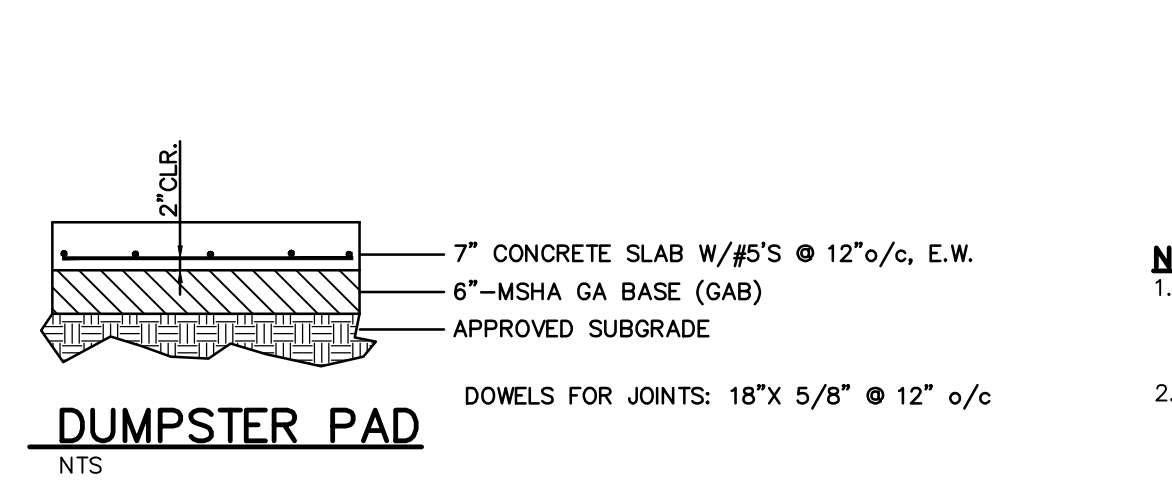
JOB NUMBER: 17905
 ISSUE DATE: 10 APRIL 2018
 SCALE:
 SHEET TITLE:
 SHEET NUMBER:

GENERAL NOTES

- HORIZONTAL DATUM: MD STATE PLANE, NAD 83/91. PER COUNTY MONUMENTS 'MYERS' AND 'MYERS AZ'.
- VERTICAL DATUM NAVD 88, PER SAME COUNTY MONUMENTS IN NOTE 1 ABOVE.
- ON-SITE TOPOGRAPHY IS FIELD RUN BY HSA AUGUST, 2017.
- EXISTING UTILITIES SHOWN ARE AS-BUILT LOCATIONS BY HSA, INC. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. ANY UTILITY (WHETHER SHOWN OR NOT) DAMAGED DUE TO CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY. ANY EXISTING FIRE HYDRANTS, MANHOLES, ETC. TO BE RAISED OR LOWERED ARE TO BE DONE SO BY CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ANY EXISTING FENCES, DRIVEWAYS, ETC. DAMAGED OR REMOVED BY HIM DURING CONSTRUCTION. ALL OFF-SITE DISTURBED AREAS SHALL BE RETURNED TO A STABLE, NON-ERODIBLE CONDITION.
- CONTRACTOR SHALL TEST PIT IN THE AREA OF KNOWN EXISTING UTILITIES TO VERIFY SIZE, LOCATION AND TYPE PRIOR TO PERFORMING ANY WORK. UTILITY RELOCATIONS, WHETHER SHOWN ON THE PLANS OR DISCOVERED IN THE FIELD ARE THE RESPONSIBILITY OF THE OWNER, PRIOR TO PERFORMING ANY WORK. THE OWNER AND THE CONTRACTOR SHALL NEGOTIATE A COST FOR DISCOVERED UTILITY WORK.
- CONTRACTOR SHALL NOTIFY MISS UTILITY 1-800-257-7777 (A MINIMUM OF 5 WORKING DAYS) AND THE FREDERICK COUNTY ENVIRONMENTAL COMPLIANCE SECTION AT 301-600-5601, AND CONSTRUCTION MANAGEMENT AT 301-600-2079) 48 HOURS PRIOR TO START OF CONSTRUCTION.
- ALL CONSTRUCTION TO CONFORM TO THE LATEST FREDERICK COUNTY STANDARDS AND SPECIFICATIONS. SHOULD THE DRAWINGS DISAGREE WITH THEMSELVES, OR WITH THE SPECIFICATIONS, THE BETTER QUALITY OR GREATER QUANTITY OF WORK OR MATERIALS SHALL BE USED FOR DOING THE WORK AND SHALL BE PROVIDED BY THE CONTRACTOR.
- ALL WATER AND SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FREDERICK COUNTY WATER AND SANITARY SEWER STANDARDS AND SPECIFICATIONS.
- ALL CONSTRUCTION WITHIN THE MARYLAND STATE HIGHWAY ADMINISTRATION RIGHT-OF-WAY SHALL BE IN CONFORMANCE WITH THE LATEST REQUIREMENTS OF THE MARYLAND STATE HIGHWAY ADMINISTRATION'S STANDARDS AND SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS AND THE ISSUED ACCESS PERMIT, DISTRICT PERMITS, AND/OR UTILITY PERMIT. PER UTILITY PERMIT REQUIREMENT, THE CONTRACTOR SHALL BE NAMED AS THE TRAFFIC CONTROL MANAGER.
- WHEN REMOVING EXISTING CURB, GUTTER, OR SIDEWALK, REMOVE TO THE NEAREST JOINT.
- GUTTERS AND PAVING SHALL BE INSTALLED IN SUCH A MANNER AS TO INSURE POSITIVE DRAINAGE IN ALL AREAS, AS SHOWN. STANDARD GUTTER CROSS SLOPE SHALL BE RESERVE SLOPE AWAY IN SOME AREAS TO CONFORM TO NEW GRADING AS SHOWN ON THE PLANS. CONTRACTOR IS RESPONSIBLE FOR STRIKING LUNING THE TOP OF CURB PROFILE TO ENSURE NO IRREGULAR HIGH OR LOW SPOTS ARE CREATED PRIOR TO POURING CURB. IF IRREGULARITIES EXIST, CONTACT ENGINEER FOR RESOLUTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING SILT AND DIRT OUT OF THE EXISTING STORM DRAIN SYSTEM DURING CONSTRUCTION AND SHALL CLEAN THE SYSTEM THOROUGHLY PRIOR TO FINAL ACCEPTANCE BY THE COUNTY AND THE OWNER.
- HARRIS, SMARIGA & ASSOCIATES, INC. IS NOT RESPONSIBLE FOR THE CONTRACTOR'S UTILIZATION OF MEN, MATERIALS, EQUIPMENT OR SAFETY MEASURES IN PERFORMANCE OF ANY WORK FOR THIS CONSTRUCTION. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR PERFORMING THE WORK CORRECTLY AND IN CONFORMANCE WITH ALL CODE REQUIREMENTS.
- HARRIS, SMARIGA & ASSOCIATES, INC. HAS NOT PERFORMED ANY SUBSURFACE INVESTIGATION TO DETERMINE LOCATIONS OF ROCK, DIFFERENT SOIL TYPES, WATER TABLE, UTILITIES, ETC.
- ALL EXISTING PAVING DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED TO AN EQUAL DEPTH (6" MIN.) OR GREATER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC ON ANY EXISTING ROADS OR ACCESS TO ANY EXISTING HOUSES IN ACCORDANCE WITH MUTCD, LATEST EDITION. THE CONTRACTOR WILL HAVE READY ACCESS TO WATER TRUCK AND POWER BROOM TO CLEAN HARP PLACE AS NECESSARY DURING CONSTRUCTION.
- DEFERRING PLAN AND FIELD CONDITIONS: THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. THE CONTRACTOR AND/OR OWNER MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER. THEN WHOSE PARTIES ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.
- THE CONTRACTOR SHALL NOTE THAT IN THE CASE OF A DISCREPANCY BETWEEN THE SCALED AND DIMENSIONED DIMENSIONS SHOWN ON THESE PLANS, THE FIGURED DIMENSION SHALL GOVERN.
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NATURALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.
- PROVIDE DEPRESSED CURB AND HANDICAP RAMPS AT ALL ROAD AND STREET INTERSECTIONS WITH CURBING AND SIDEWALK AND AT ALL HANDICAP PARKING SPACES. PROVIDE HANDICAP SIGNS AT EACH HANDICAP PARKING SPACE. ALL CONSTRUCTION SHALL CONFORM TO STATE OF MARYLAND CODE FOR THE HANDICAPPED AND THE AMERICANS WITH DISABILITIES ACT (ADA), WHERE APPLICABLE.
- FIELD ADJUSTMENTS SHALL BE MADE AS NECESSARY TO PROVIDE A SMOOTH TRANSITION BOTH VERTICALLY AND HORIZONTALLY FROM EXISTING TO PROPOSED PAVING SECTION.
- EXCAVATION WITHIN A COUNTY ROAD RIGHT-OF-WAY WILL NOT BE ALLOWED WITHOUT OBTAINING A PERMIT FROM THE FREDERICK COUNTY DIVISION OF HIGHWAY OPERATIONS FOR THE INSTALLATION OF UTILITIES, STORM DRAINS, ETC. TELEPHONE NUMBER IS 301-600-1564.
- THE CONTRACTOR SHALL PROVIDE A WATERTIGHT CONNECTION OF THE PROPOSED SANITARY SEWER TO THE EXISTING MANHOLE AND REBUILD MANHOLE CHANNEL AS NECESSARY OR IF DIRECTED BY THE ENGINEER.
- FINAL LOCATION OF FIRE HYDRANTS WILL BE DETERMINED IN THE FIELD.
- SOME AREAS OF THE MONOCLAY VALLEY HAVE KNOWN LIMESTONE FORMATIONS WITH SOLUTION CAVITIES (SINKHOLES). HARRIS, SMARIGA & ASSOCIATES RECOMMENDS THAT THE OWNER RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER TO EVALUATE SUBSURFACE CONDITIONS DURING CONSTRUCTION. THE GEOTECHNICAL ENGINEER SHALL RECOMMEND CORRECTIVE MEASURES IF SOLUTION CAVITIES ARE ENCOUNTERED.
- THE WETLAND LIMITS, IF SHOWN HEREON, WERE SUPPLIED BY THE OWNER AND/OR HIS WETLAND CONSULTANT, HARRIS, SMARIGA & ASSOCIATES, INC. ASSUME NO RESPONSIBILITY FOR ITS EXISTENCE, ACCURACY, LOCATION, OR DETERMINATION. ANY WORK IN THE WETLANDS AND/OR ITS BUFFER SHOWN ON THIS PLAN OR RESULTING FROM EXISTING FIELD CONDITIONS REQUIRES A WETLAND PERMIT. APPLICATION FOR THIS PERMIT SHALL BE THE RESPONSIBILITY OF THE OWNER.
- WHEN WORKING IN THE AREA OF ANY EXISTING GAS LINE, THE CONTRACTOR SHALL HAVE THE WASHINGTON GAS COMPANY (301-482-2151) VERIFY THAT NO LEAKS EXIST PRIOR TO ANY WORK IN THE AREA. A GAS COMPANY REPRESENTATIVE MUST BE PRESENT AT THE PROJECT SITE BEFORE ANY BLASTING WITHIN 20 FEET OF GAS LINES. ANY EXCAVATION WITHIN 3 FEET OF GAS LINES SHALL BE DONE BY HAND (NO MACHINERY). THE DEVELOPER OR THE DEVELOPER'S REPRESENTATIVE SHALL OBTAIN APPROVAL FROM THE GAS COMPANY FOR ANY WORK WITHIN A GAS LINE EASEMENT AREA.
- THE GUARDRAIL LIMITS WILL BE DETERMINED IN THE FIELD BASED ON "AS-BUILT" CONDITIONS. IF NECESSARY, GUARDRAIL WILL BE INSTALLED IN ACCORDANCE WITH M.S.H.A. STANDARDS.
- TRASH TO BE PICKED UP BY A PRIVATE CONTRACTOR AT THE DUMPSTER LOCATION SHOWN ON THE PLAN WHEN THE FACILITY IS OCCUPIED BY OWNER.
- ALL PARKING ISLAND RADI ARE 4.5' UNLESS NOTED OTHERWISE.
- FOR FINAL POLE LOCATIONS AND CONDUIT ROUTING, SEE ELECTRICAL PLAN PREPARED BY THE MEP ENGINEER.

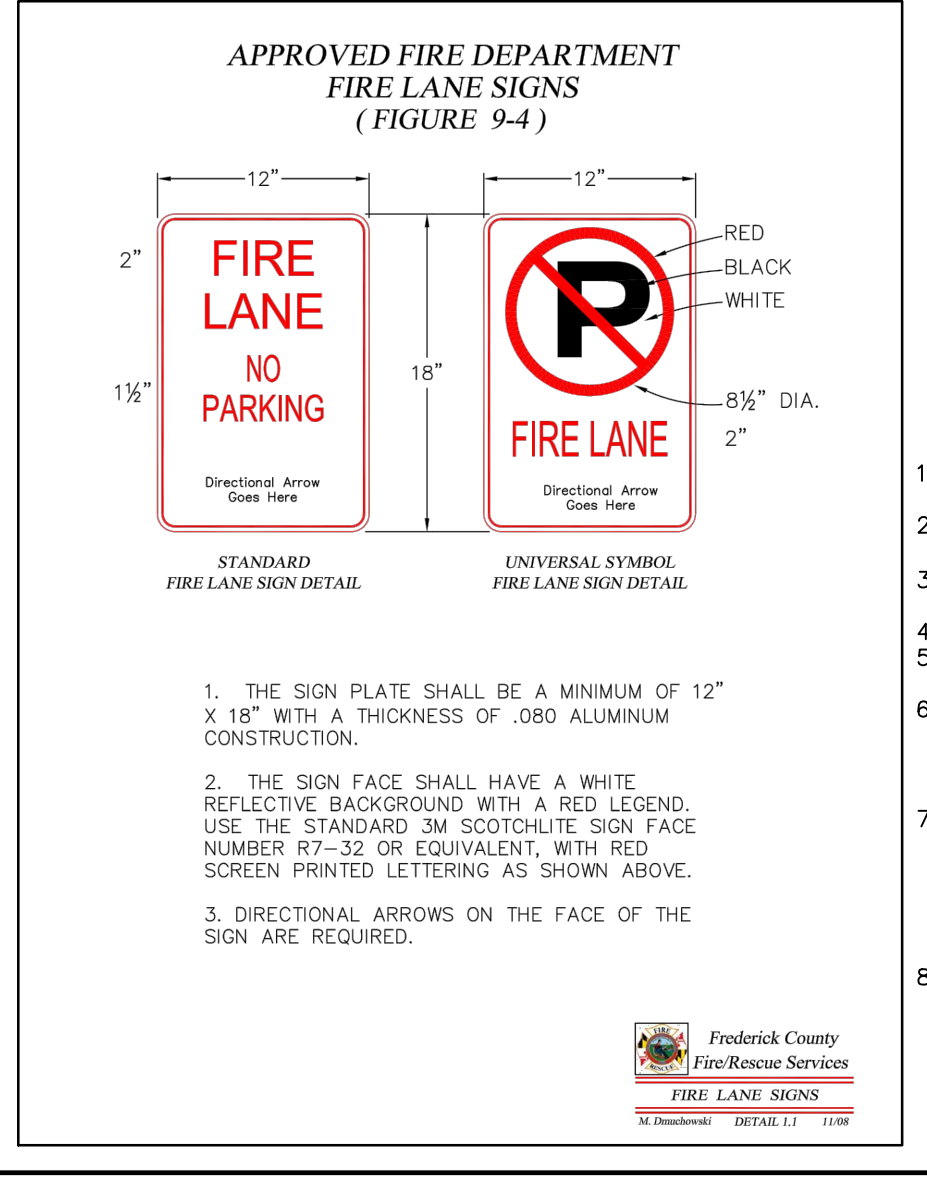


NOTE: Paving sections (bituminous and concrete) shown on this plan are from a Geotechnical report entitled "Revised Geotechnical Engineering Report, Myersville Library" prepared by ECS Mid-Atlantic, LLC, dated December 13, 2017 and revised January 17, 2018. HSA, Inc. assumes no responsibility for pavement design.



NOTES:

- WHERE PROPOSED PAVEMENT CONNECTS TO EXISTING PAVEMENT SAW CUT THE EXISTING PAVEMENT FOR THE FULL LENGTH OF THE CONNECTION FOR THE SURFACE COURSE. THE EXISTING PAVEMENT SHALL BE MILLED BACK A MINIMUM OF 18" TO ALLOW FOR A SMOOTH OVERLAP.
- THE DEVELOPER IS RESPONSIBLE TO EMPLOY THE SERVICES OF A GEOTECHNICAL ENGINEER TO INVESTIGATE, TEST AND ANALYZE THE PAVEMENT SUBGRADE AND DESIGN THE PAVEMENT SECTION TO SUPPORT CONSTRUCTION AND OTHER ANTICIPATED TRAFFIC FOR A 20 YEAR MINIMUM SERVICE LIFE.



- FIRE/RESCUE NOTES**
- FIRE DEPARTMENT ACCESS ROADS SHALL BE ACCESSIBLE DURING ALL TYPES OF WEATHER AND AT ALL TIMES.
 - FIRE DEPARTMENT ACCESS ROADS SHALL BE CAPABLE OF SUPPORTING FIRE APPARATUS AT ALL TIMES AND BE A MINIMUM OF 20' WIDE.
 - FIRE DEPARTMENT ACCESS ROADS SHALL BE PROVIDED AND MAINTAINED TO ALL STRUCTURES UNDERGOING CONSTRUCTION, ALTERATION OR DEMOLITION.
 - THE ACCESS ROADWAYS SHALL PROVIDE A MINIMUM TURNING RADI OF 40-45 FEET.
 - FIRE LANES SHALL BE ESTABLISHED BY THE FIRE MARSHAL DURING CONSTRUCTION AND BEFORE ISSUING THE U&O.
 - THE PROPERTY ADDRESSES SHALL BE INCORPORATED INTO THE SITE SIGN AND SHALL BE POSTED ON EACH BUILDING IN ACCORDANCE WITH THE FREDERICK COUNTY PREMISE IDENTIFICATION ORDINANCE #05-01-362. A COPY OF THE ORDINANCE IS AVAILABLE AT: [HTTP://WWW.CO.FREDERICK.MD.US/Info/PDF_FILES/PREMISEORDINANCE.PDF](http://www.co.frederick.md.us/Info/PDF_FILES/PREMISEORDINANCE.PDF)
 - AN ACCESS BOX (KNOX BOX) FOR FIRE DEPARTMENT USE SHALL BE INSTALLED NEAR THE MAIN ENTRANCE OF THE MAIN BUILDING IN ACCORDANCE WITH THE PROVISIONS OF NFPA #1, THE UNIFORM FIRE CODE SECTION 18.2.2. DUE TO THE SIZE OF THE BUILDING AND SINCE THERE IS FIRE DEPARTMENT ACCESS IN THE REAR OF THE BUILDING, AN ADDITIONAL KNOX BOX(ES) SHALL BE PROVIDED AT APPROVED LOCATIONS. IF APPLICABLE, ANY GATES IN FENCED ENCLOSURES SHALL HAVE A KNOX PAD LOCK INSTALLED.
 - PLUMBABLE FIRE HYDRANT MARKERS SHALL BE INSTALLED TO IDENTIFY THE LOCATIONS OF HYDRANTS. MARKERS SHALL BE PLACED SIX INCHES FROM THE EDGE OF THE PAINTED CENTERLINE OR FROM THE APPROXIMATE CENTER OF STREETS WITHOUT A PAINTED CENTERLINE ON THE SIDE NEAREST THE HYDRANT. FIRE HYDRANTS ON STREET CORNERS SHALL HAVE MARKERS INSTALLED IN EACH ROADWAY. THE MARKER IS A STIMSONITE MARKER, MODEL 101, OR APPROVED EQUIVALENT. THE MARKER SHALL BE BLUE IN COLOR.

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MYERSVILLE LIBRARY

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WWW.HSAONLINE.COM

REVISIONS:

03.09.18	REVISED PER COUNTY AND SD COMMENTS
04.10.18	ADDRESS COUNTY, LOCAL COMMENTS

SCALE: N/A
 DRAWN: RLP
 BY: RLP
 CHECKED: MAM
 DATE: JAN 2018
 SHEET: C-2
 OF: 12
 PROJECT: 7573
 C-2

STATUTED ON HARP PLACE, LOT 1 - PB, 98, P-42
 JACKSON ELECTION DISTRICT NO.16
 FREDERICK COUNTY, MARYLAND

4/10/2018 2:08 PM

MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
 8 HARP PLACE
 MYERSVILLE, MD 21773

PROJECT OWNER
FREDERICK COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS

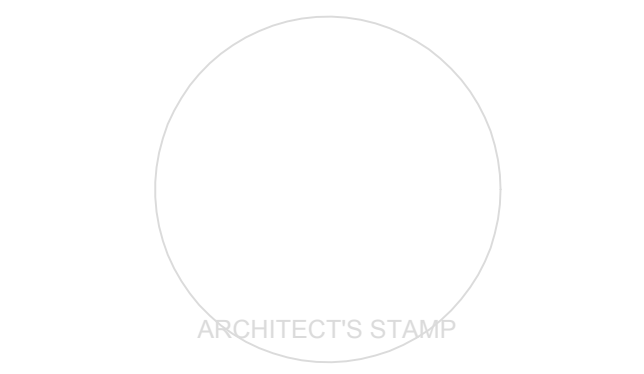
PROJECT TEAM
 ARCHITECT

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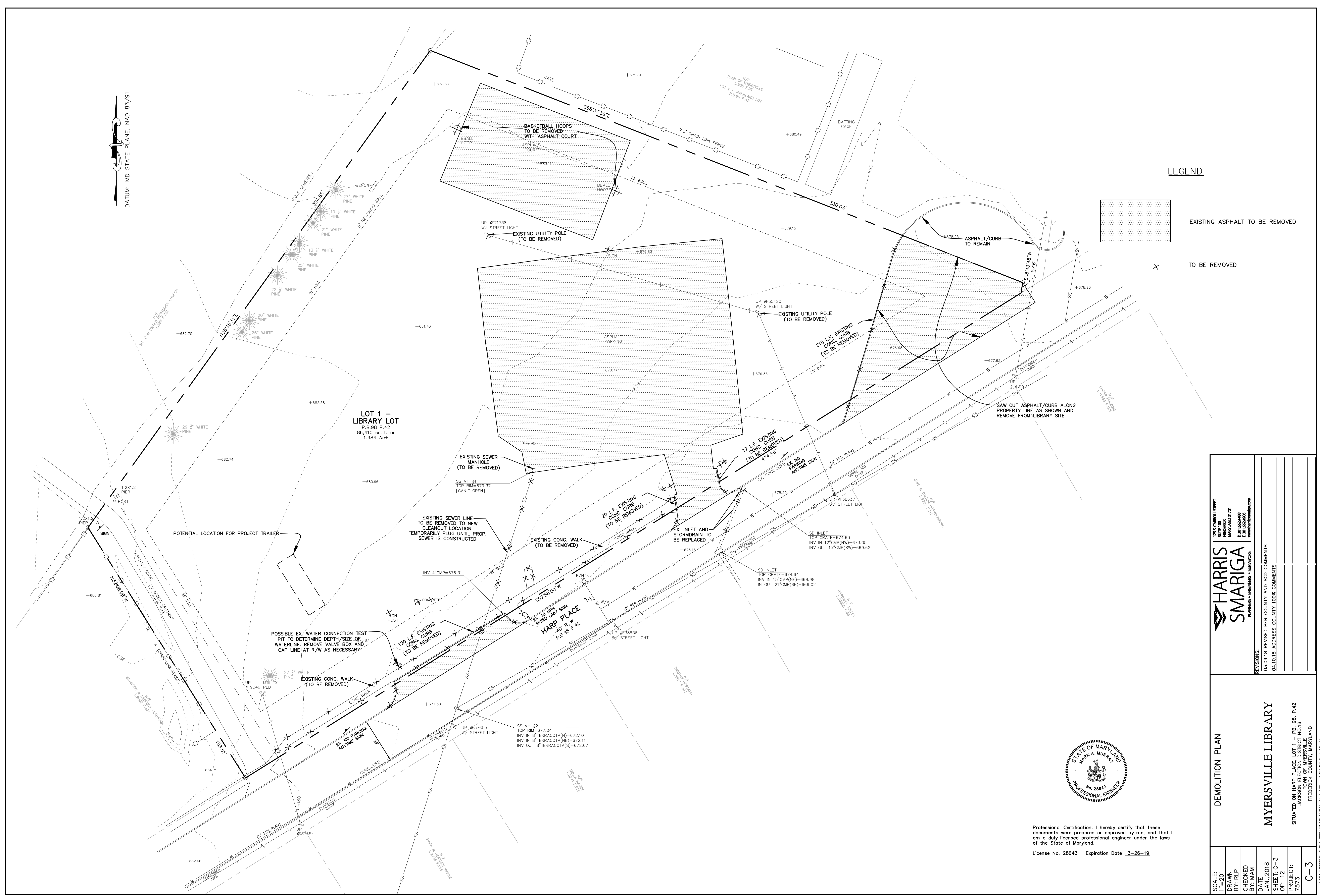


SHEET INFORMATION
 KEY PLAN

REVISIONS		
REV. #:	DESCRIPTION:	DATE:

PROJECT STATUS

JOB NUMBER:	17905
ISSUE DATE:	10 APRIL 2018
SCALE:	
SHEET TITLE:	
SHEET NUMBER:	



LEGEND

[Hatched Box] - EXISTING ASPHALT TO BE REMOVED

[X] - TO BE REMOVED

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 SUITE 100
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REVISIONS:

03.09.18	REVISED PER COUNTY AND SCD COMMENTS
04.10.18	ADDRESS COUNTY, LOCAL COMMENTS

DEMOLITION PLAN

MYERSVILLE LIBRARY

SITUATED ON HARP PLACE, LOT 1 - PB. 98, P. 42
 JACKSON ELECTION DISTRICT NO. 16
 FREDERICK COUNTY, MARYLAND

SCALE: 1" = 20'

DRAWN BY: RLP

CHECKED BY: MAM

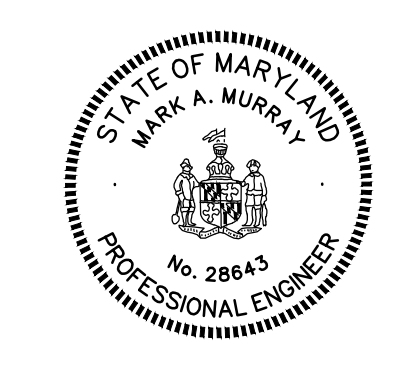
DATE: JAN. 2018

SHEET: C-3

OF: 12

PROJECT: 17905

C-3



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 28643 Expiration Date 3-26-19

DATUM: MD STATE PLANE, NAD 83/91

MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
8 HARP PLACE
MYERSVILLE, MD 21773

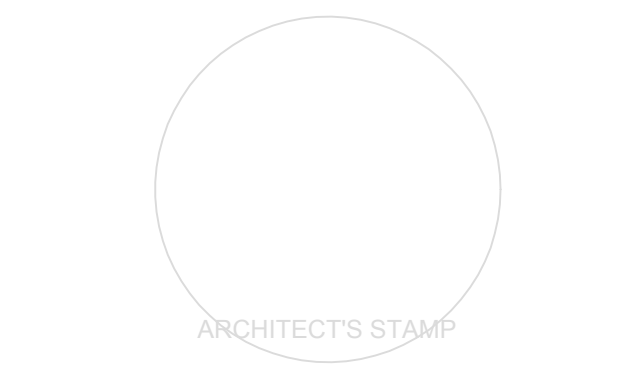
PROJECT OWNER
FREDERICK COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

PROJECT TEAM
ARCHITECT

STRUCTURAL ENGINEER
ABEL CONSULTING ENGINEERS
9055 COMPRINT COURT, SUITE 370 | GAITHERSBURG, MD | 20878
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PA | MD | VA

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CJL ENGINEERING
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125 SOUTH CARROLL STREET | FREDERICK, MD | 21701
P: 301.662.4488 | F: 301.662.4906



SHEET INFORMATION
KEY PLAN

REVISIONS

REV. #	DESCRIPTION	DATE

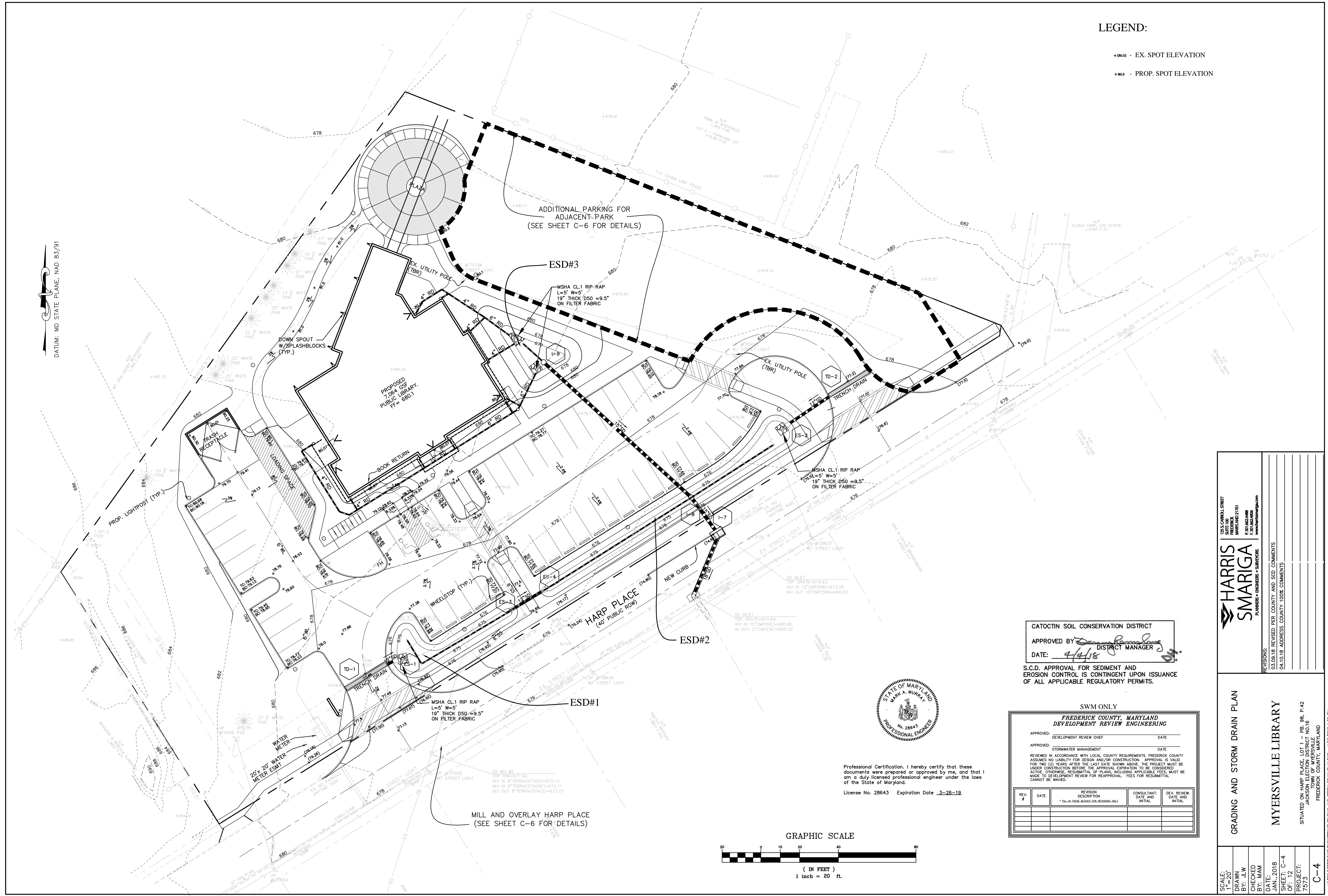
PROJECT STATUS

JOB NUMBER: 17905
ISSUE DATE: 10 APRIL 2018
SCALE:
SHEET TITLE:

SHEET NUMBER:

LEGEND:

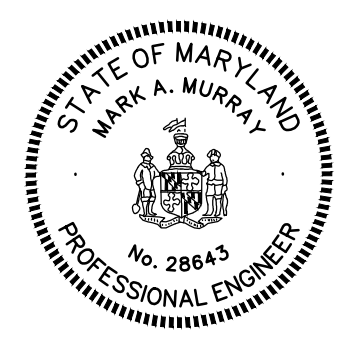
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- +80.0 - PROP. SPOT ELEVATION



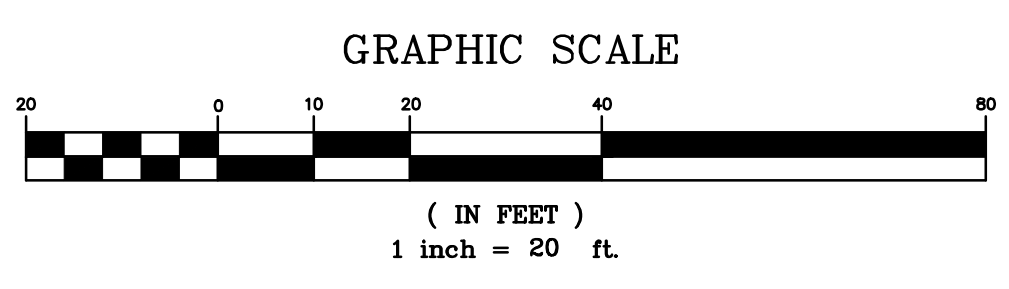
DATUM: MD STATE PLANE, NAD 83/91

CATOCOTIN SOIL CONSERVATION DISTRICT
APPROVED BY: *[Signature]*
DISTRICT MANAGER
DATE: 4/4/18

S.C.D. APPROVAL FOR SEDIMENT AND EROSION CONTROL IS CONTINGENT UPON ISSUANCE OF ALL APPLICABLE REGULATORY PERMITS.



Professional Certification, I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 28643 Expiration Date 3-28-19



SWM ONLY
FREDERICK COUNTY, MARYLAND
DEVELOPMENT REVIEW ENGINEERING

REV. #	DATE	REVISION DESCRIPTION	CONSULTANT DATE AND INITIAL	DEV. REVIEW DATE AND INITIAL

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www.harris-smariga.com

REVISIONS:
03.09.18 REVISED PER COUNTY AND SCD COMMENTS
04.10.18 ADDRESS COUNTY LOGO COMMENTS

GRADING AND STORM DRAIN PLAN
MYERSVILLE LIBRARY

SITUATED ON HARP PLACE, LOT 1 - PB, 9B, P42
JACKSON ELECTION DISTRICT NO. 16
FREDERICK COUNTY, MARYLAND
C-4

SCALE:
1" = 20'
DRAWN BY: J.W.
CHECKED BY: J.M.M.
DATE: JAN. 2018
SHEET: C-4
OF: 12
PROJECT: 7573
C-4

MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
 8 HARP PLACE
 MYERSVILLE, MD 21773

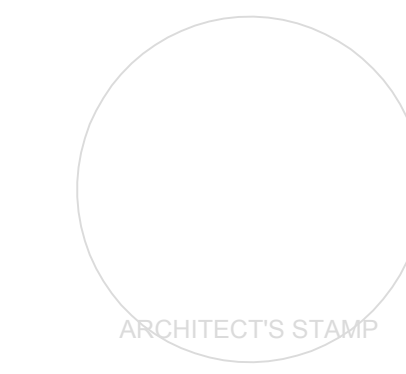
PROJECT OWNER
FREDERICK COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS

PROJECT TEAM
 ARCHITECT

STRUCTURAL ENGINEER
ABEL CONSULTING ENGINEERS
 9055 COMPRINT COURT, SUITE 370 | GAITHERSBURG, MD | 20878
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 125 SOUTH CARROLL STREET | FREDERICK, MD | 21701
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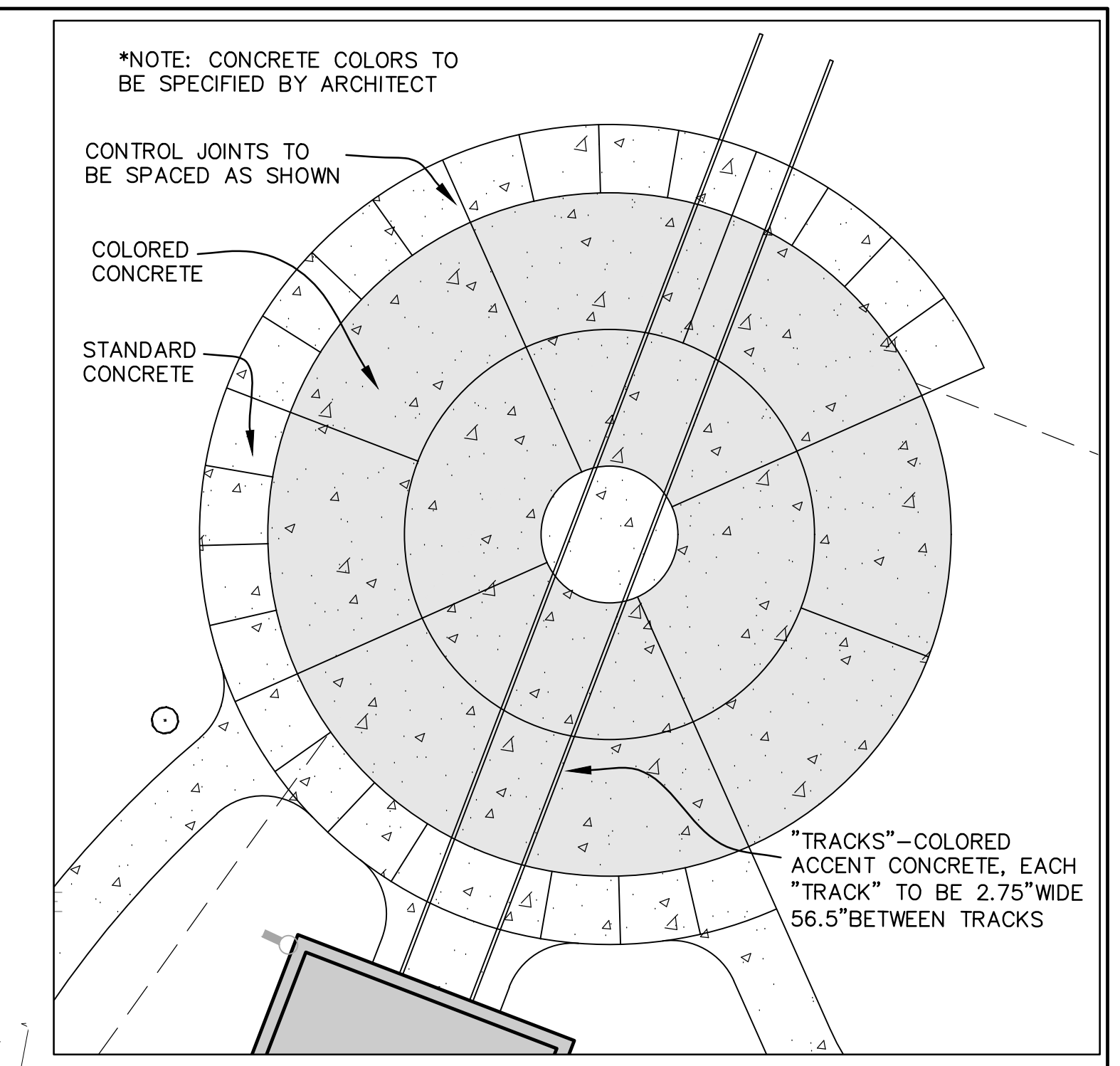


SHEET INFORMATION
 KEY PLAN

REVISIONS		
REV. #:	DESCRIPTION:	DATE:

PROJECT STATUS

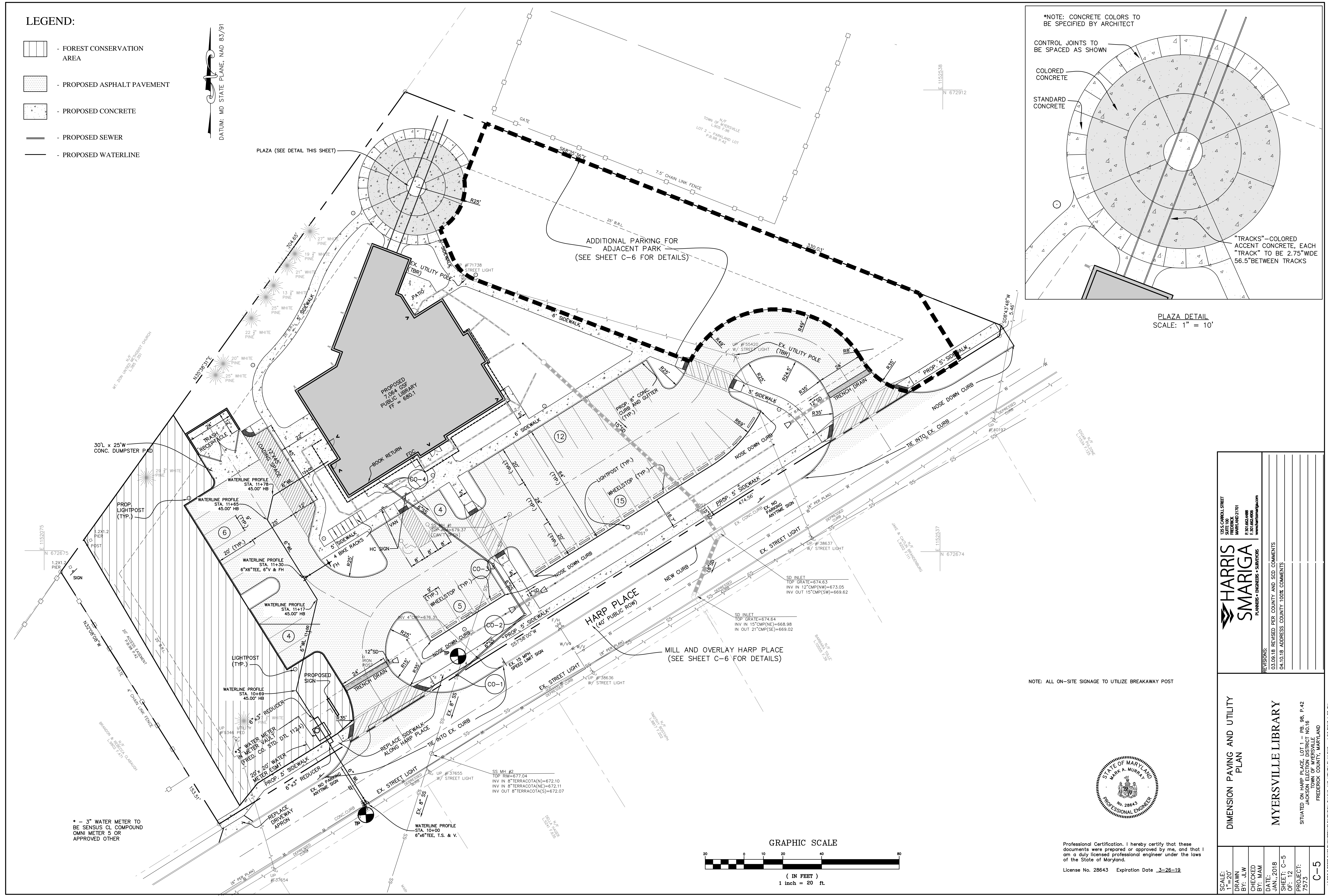
JOB NUMBER:	17905
ISSUE DATE:	10 APRIL 2018
SCALE:	
SHEET TITLE:	
SHEET NUMBER:	



LEGEND:

- FOREST CONSERVATION AREA
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE
- PROPOSED SEWER
- PROPOSED WATERLINE

DATUM: MD STATE PLANE, NAD 83/91



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REVISIONS:
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 04.10.18 ADDRESS COUNTY, LOCAL COMMENTS

HARRIS SMARIGA & ASSOCIATES, INC.
 PROFESSIONAL ENGINEER

STATE OF MARYLAND
 MARK A. MURRAY
 No. 28643
 EXPIRES 12/31/2019

Professional Certification, I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 28643 Expiration Date 3-26-19

SCALE: 1" = 20'

DRAWN BY: J.L.W.

CHECKED BY: M.M.M.

DATE: JAN. 2018

SHEET: C-5

OF: 12

PROJECT: MYERSVILLE LIBRARY

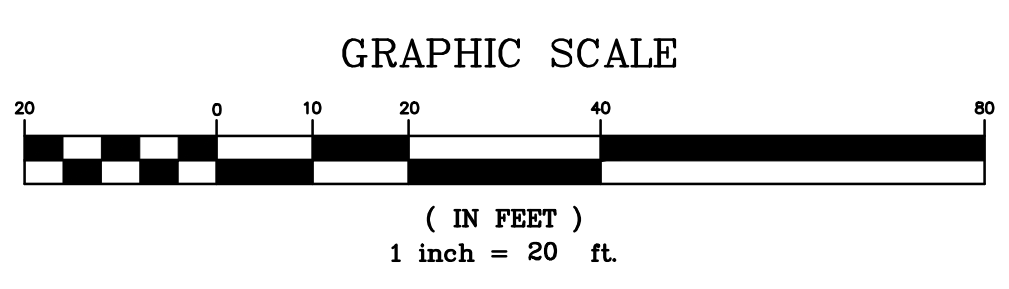
DATE: 10/18/18

PROJECT: MYERSVILLE LIBRARY

DATE: 10/18/18

PROJECT: MYERSVILLE LIBRARY

DATE: 10/18/18



MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS

8 HARP PLACE
MYERSVILLE, MD 21773

PROJECT OWNER

FREDERICK COUNTY,
MARYLAND
DEPARTMENT OF PUBLIC WORKS

PROJECT TEAM

ARCHITECT

6 NORTH EAST STREET, SUITE 300

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125 SOUTH CARROLL STREET | FREDERICK, MD | 21701

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ARCHITECT'S STAMP

SHEET INFORMATION

KEY PLAN

REVISIONS

REV. #:	DESCRIPTION:	DATE:

PROJECT STATUS

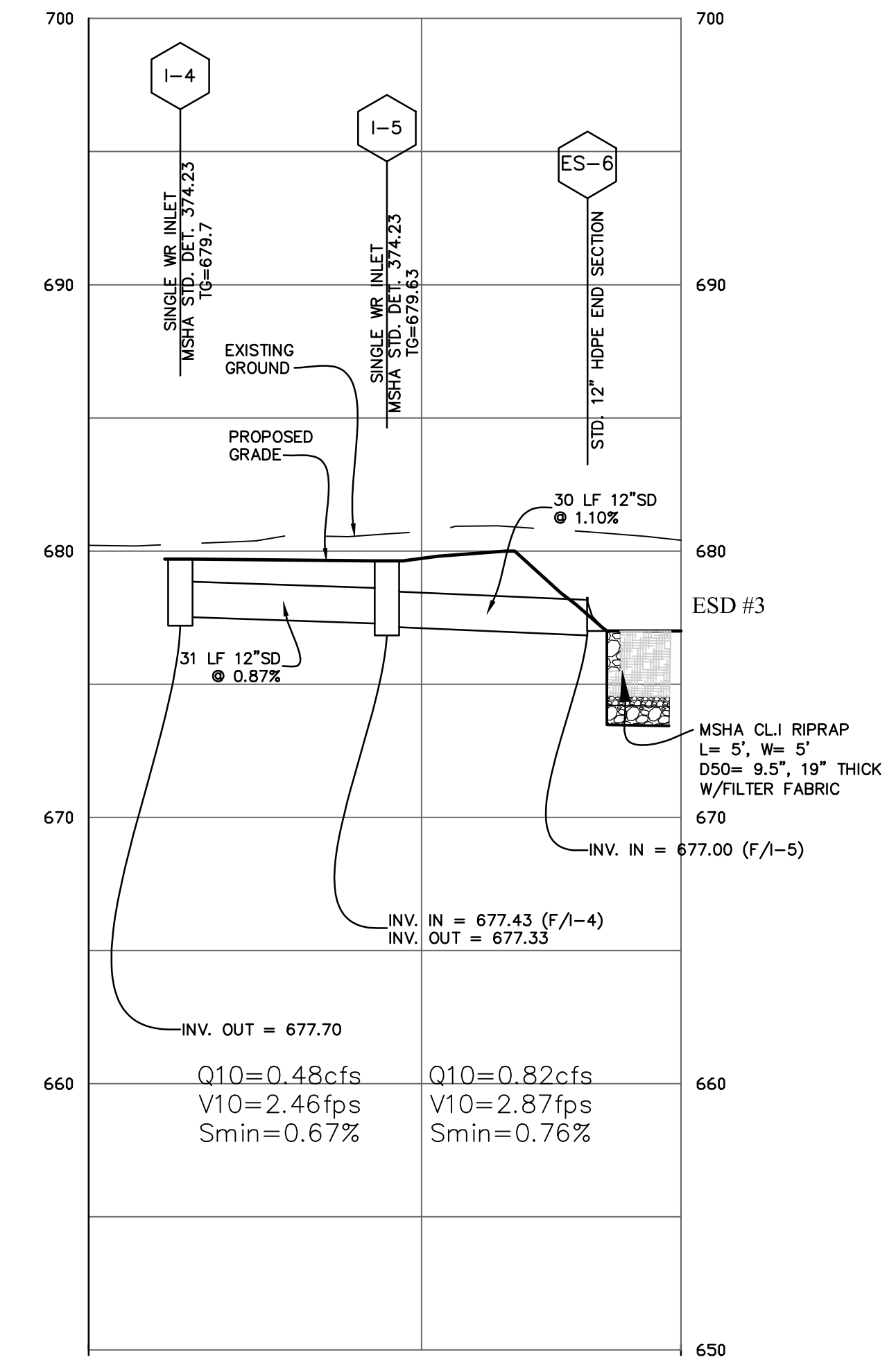
JOB NUMBER: 17905

ISSUE DATE: 10 APRIL 2018

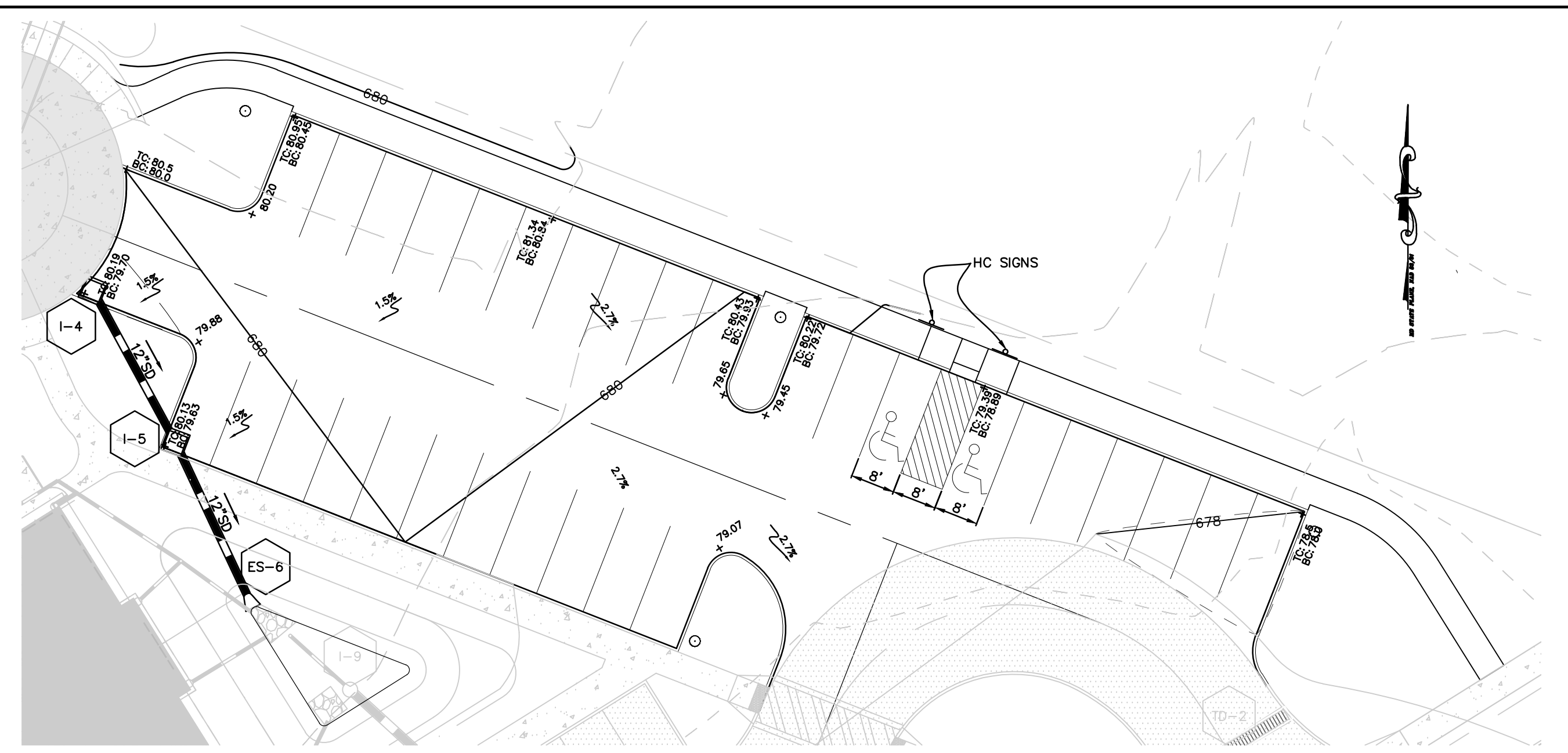
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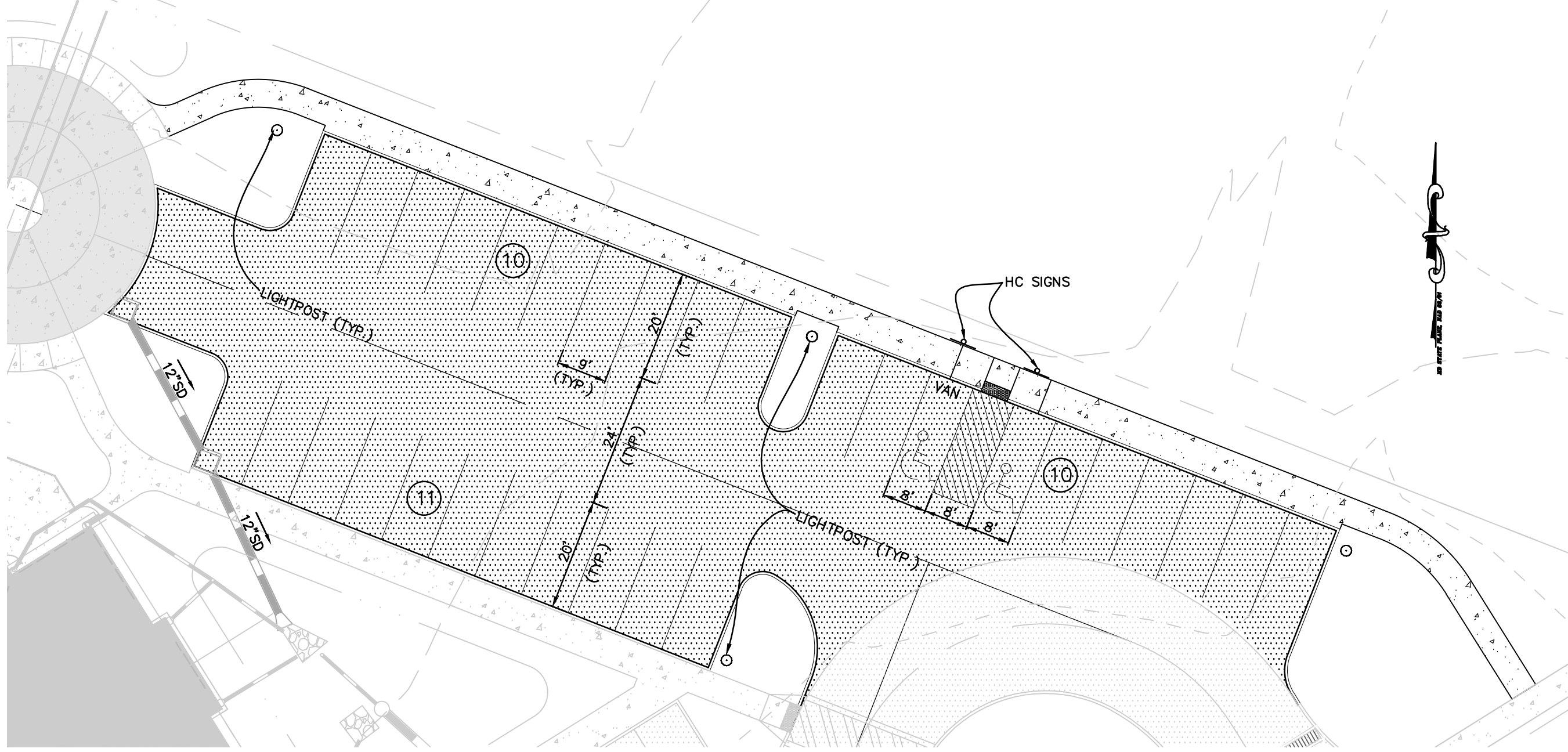
SHEET NUMBER:



I-4 TO ES-6
Profile Scale:
Horizontal = 1"=20'
Vertical = 1"=5'

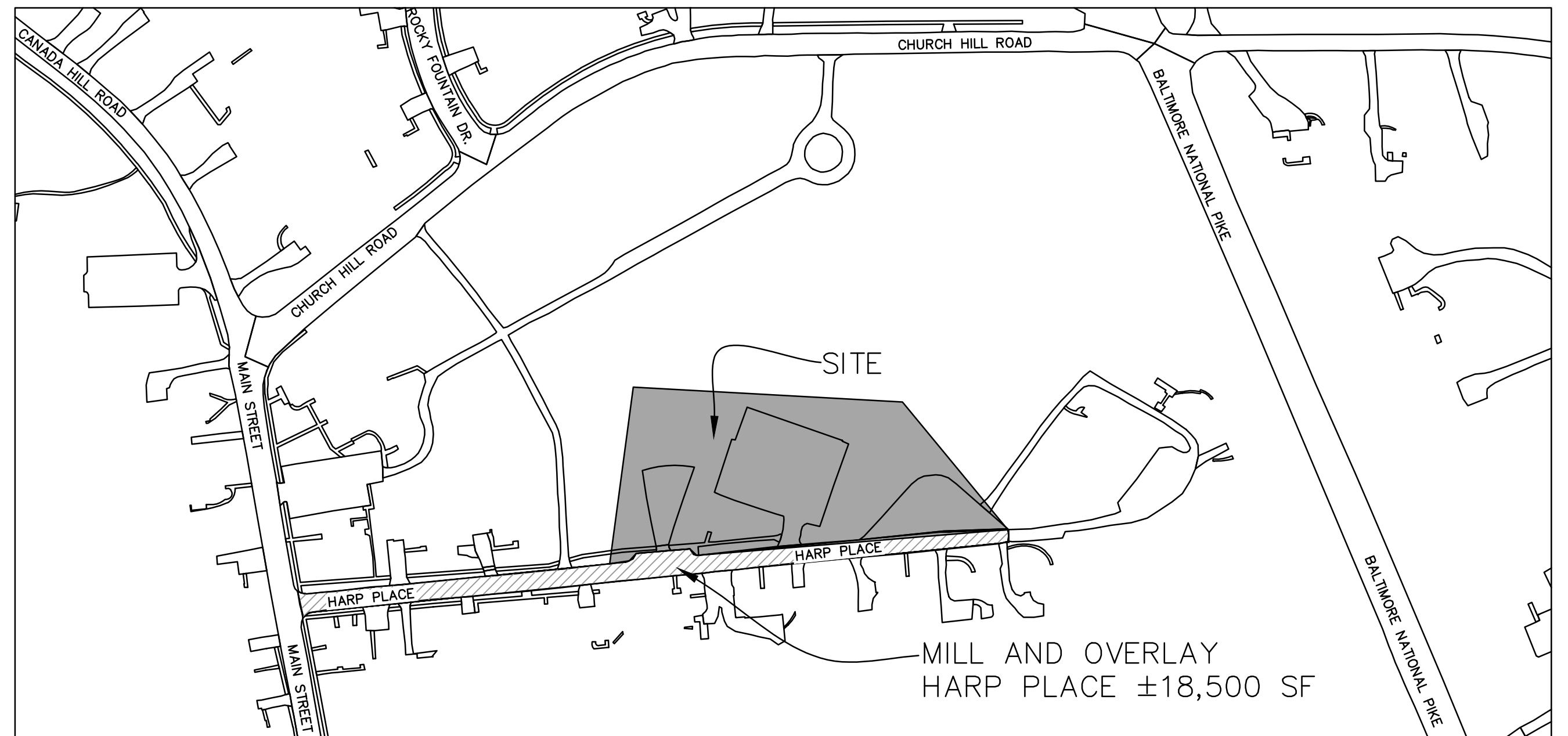


GRADING AND STORMDRAIN PLAN
SCALE: 1" = 20'



DIMENSION AND PAVING PLAN
SCALE: 1" = 20'

ADDITIONAL PARKING FOR PARK



SCALE: 1" = 150'
MILL AND OVERLAY HARP PLACE

PAVING LEGEND:

- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE
- MILL AND OVERLAY

125 S. CARROLL STREET
SUITE 100
FREDERICK, MD 21701
P: 301.662.4488
www.harris-smariga.com

HARRIS
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REVISIONS:
03.09.18 REVISED PER COUNTY AND SCD COMMENTS
04.10.18 ADDRESS COUNTY LOGIC COMMENTS

SCALE:
AS SHOWN
DRAWN BY: HGD
CHECKED BY: MAM
DATE: JAN. 2018
SHEET: C-6
OF: 12
PROJECT: 17905
C-6

ADDITIONAL PARKING AND HARP PLACE MILL AND OVERLAY PLANS

MYERSVILLE LIBRARY

SITUATED ON HARP PLACE, LOT 1 - PB 98, P 42
JACKSON ELECTION DISTRICT NO. 16
FREDERICK COUNTY, MARYLAND
4/9/2018 1:45 PM

MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
 8 HARP PLACE
 MYERSVILLE, MD 21773

PROJECT OWNER
FREDERICK COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS

PROJECT TEAM

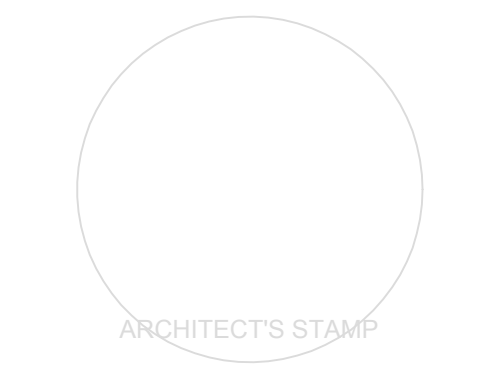
ARCHITECT

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SHEET INFORMATION
 KEY PLAN

REVISIONS		
REV. #:	DESCRIPTION:	DATE:

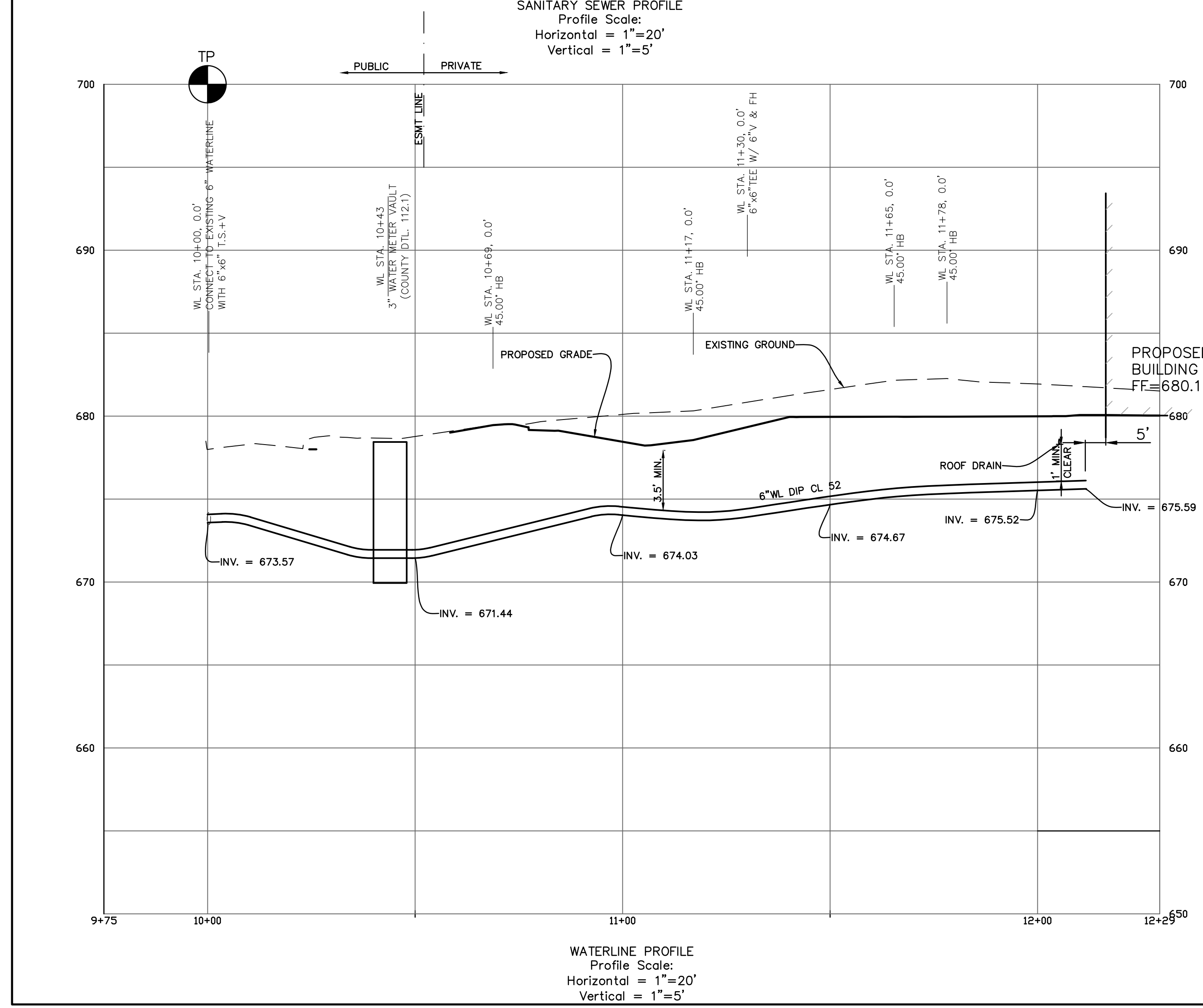
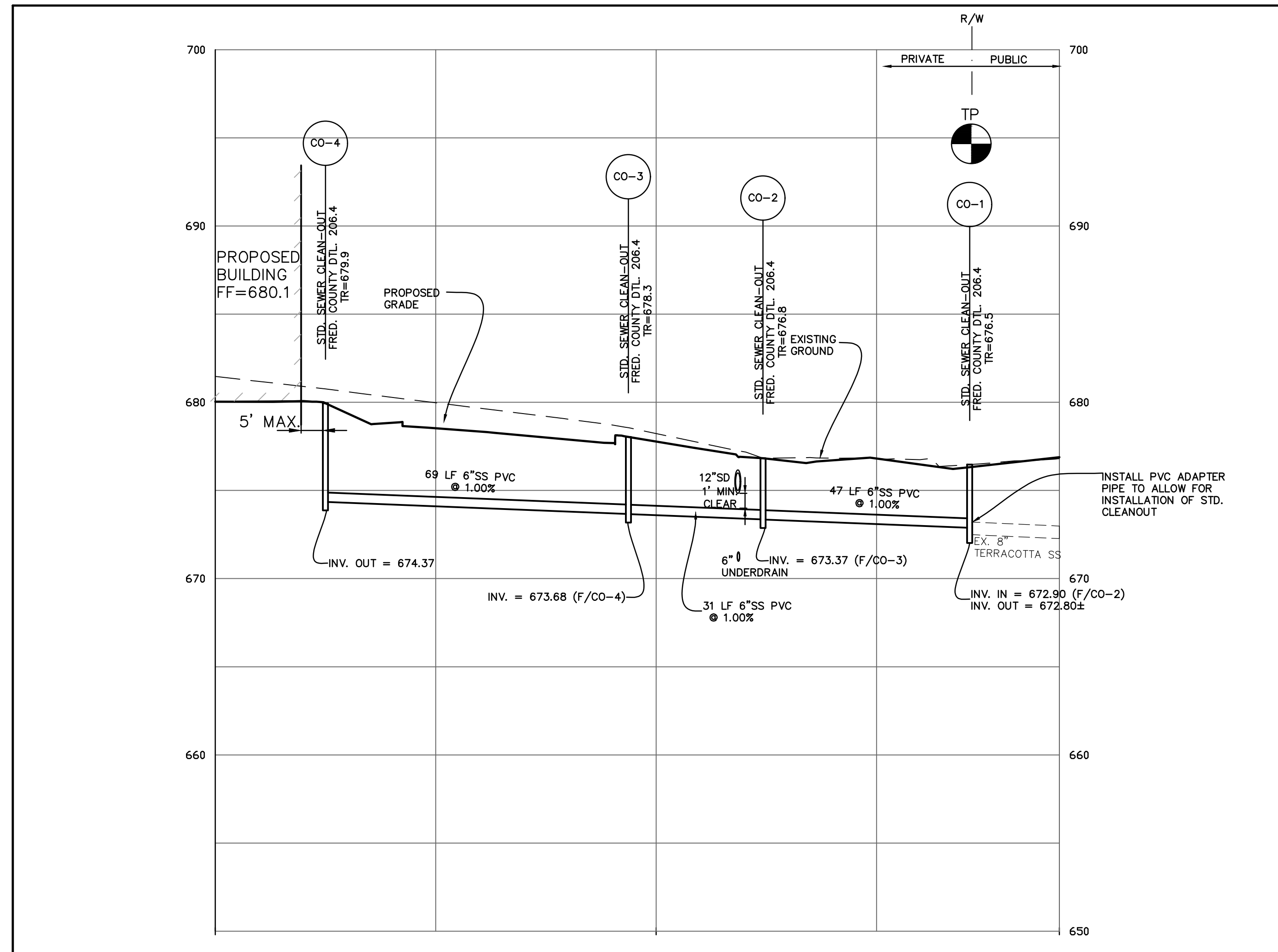
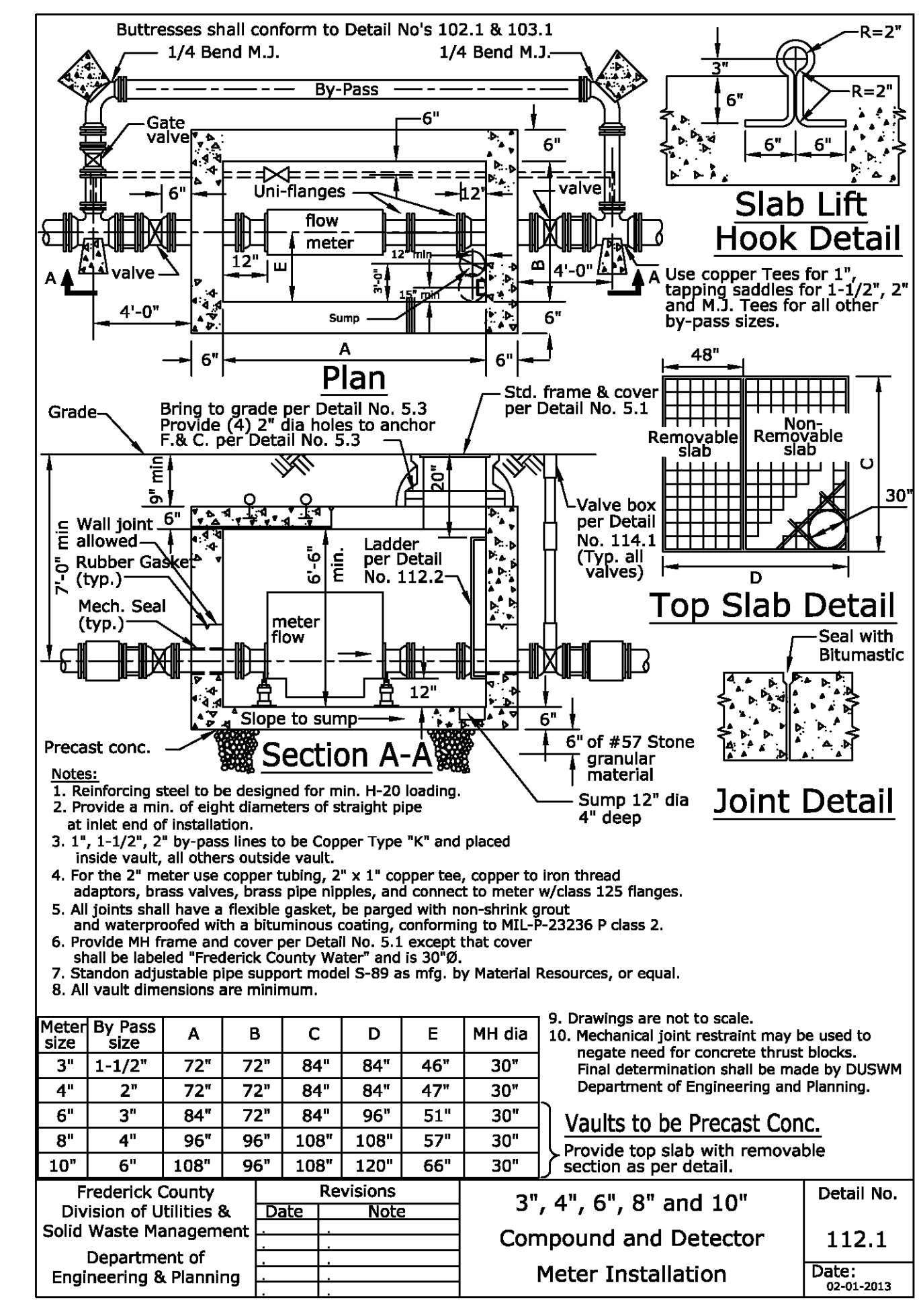
PROJECT STATUS

JOB NUMBER: **17905**
 ISSUE DATE: **10 APRIL 2018**

SCALE:
 SHEET TITLE:
 SHEET NUMBER:

WATER & SEWER GENERAL NOTES

- ALL WATER AND SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FREDERICK COUNTY "GENERAL CONDITIONS & STANDARD SPECIFICATIONS", DETAILS FOR WATER MAINS, SANITARY SEWER AND RELATED STRUCTURES, SPECIAL PROVISIONS AND AMENDMENTS THERETO.
- EXISTING UTILITIES ARE SHOWN FROM BEST AVAILABLE RECORDS. THE CONTRACTOR SHALL TEST PIT IN THE AREA OF KNOWN UTILITIES TO VERIFY SIZE, ELEVATION, LOCATION AND TYPE PRIOR TO PERFORMING ANY WORK. ANY UTILITY, WHETHER SHOWN OR NOT, THAT IS DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER. SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE OWNER IS TO BE NOTIFIED IMMEDIATELY. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT THE AUTHORIZATION OF THE OWNER, THEN THE CONTRACTOR ASSUMES THE RESPONSIBILITY FOR SAID CORRECTIONS OR ADJUSTMENTS.
- ANY NECESSARY ADJUSTMENTS TO EXISTING MANHOLES, VALVE BOXES, ETC., ARE TO BE DONE SO BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING ANY EXISTING FENCES, DRIVEWAYS, SIGNS, DRAINAGE PIPES, MAILBOXES, SHRUBS, TREES, ETC. DAMAGED OR REMOVED DURING CONSTRUCTION. ALL DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION OR BETTER.
- ALL WATER MAINS TO BE DUCTILE IRON PIPE (3" - 6" CLASS 54, 8" AND LARGER CLASS 52). ALL GRAVITY SEWER MAINS TO BE SDR 35 PVC, UNLESS DEPTH EXCEEDS 14', THEN USE SDR-26, UNLESS OTHERWISE NOTED.
- MEGALUG RESTRAINTS TO BE USED ON WATER LINES WHERE EARTH IS DISTURBED BY OTHER CONSTRUCTION.
- ALL OUTSIDE FIRE PROTECTION LINE CONSTRUCTION SHALL CONFORM TO NFPA 24 REQUIREMENTS.
- ALL SANITARY SEWER CLEANOUTS (C/O) TO BE CONSTRUCTED PER FRED. CO. STD. DTL. 206.4, OR 208.1 IF IN TRAFFIC AREAS.
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY (1-800-257-7777) 5 DAYS PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING SILT AND DEBRIS OUT OF THE STORM DRAINAGE SYSTEM FOR THE DURATION OF THE CONTRACT.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTY OWNERS AT ALL TIMES. THE CONTRACTOR, WITH OWNER APPROVAL, WILL COORDINATE WITH PROPERTY OWNERS IF ACCESS MUST BE INTERRUPTED FOR SHORT TIME PERIODS.
- ALL PUBLIC FITTINGS AND VALVES ARE TO BE RESTRAINED BY USE OF "MEGA-LUGS" OR EQUAL. IF NO RESTRAINED JOINT LENGTH IS SHOWN ON THE DRAWINGS, INSTALL CONCRETE BUTTRESS/ANCHORS AT FITTINGS PER THE STANDARD DETAILS OR SUBMIT AN RFI TO THE ENGINEER TO HAVE RESTRAINED JOINT LENGTH CLARIFIED.
- OWNER/DEVELOPER/CONTRACTOR RESPONSIBILITIES FOR SUBGRADE: A. THE CONTRACTOR SHALL ENSURE THAT THE GROUND ELEVATION OVER THE WATER AND/OR SEWER LINE LOCATIONS IS WITHIN SIX (6) INCHES OF FINISHED GRADE (OUTSIDE ROADWAY) OR AT THE ROAD SUBGRADE ELEVATION (WITHIN ROADWAY) PRIOR TO THE START OF ANY EXCAVATION OR TRENCHING OF WATER AND/OR SEWER LINES. CUT SHEETS PREPARED BY THE CONTRACTOR SHALL BE PRESENTED TO THE INSPECTOR SUFFICIENTLY IN ADVANCE OF THE WORK BEING DONE (THIS ADVANCE NOTICE TO BE DETERMINED BY THE INSPECTOR DURING THE PRECONSTRUCTION MEETING). THE INSPECTOR RESERVES THE RIGHT TO WITHHOLD PAYMENT AND/OR TO STOP WORK IF CUT SHEETS ARE NOT PROVIDED IN A TIMELY FASHION. B. IF AFTER INSTALLATION OF WATER AND/OR SEWER FACILITIES THERE EXISTS A CONFLICT WITH OTHER UTILITIES (SHOWN AS FUTURE), THE RELOCATION, ADJUSTMENT, REPLACEMENT, ETC. OF SAID WATER AND SEWER WILL BE AFFECTED PURSUANT TO ARTICLE 16 OF THE GENERAL CONDITIONS AND STANDARD SPECIFICATIONS. C. IF SUBGRADE IS SHOWN AS CONTROLLED FILL OR FILL BENEATH THE WATER AND/OR SANITARY SEWER, THE MASS GRADING ENGINEER OF RECORD SHALL CERTIFY THE ENTIRE PORTION OF THE MASS GRADED AREA HAS BEEN INSTALLED PURSUANT TO THE SECTION 2200 WHERE WATER AND/OR SEWER LINES ARE TO BE INSTALLED.
- 18" MINIMUM SEPARATION BETWEEN ALL VALVES AND TEE/CROSS.



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 28643 Expiration Date 3-26-19

HARRIS SMARIGA
 PLANNERS • ENGINEERS • SURVEYORS

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 www.harris-smariga.com

REVISIONS:
 03.09.18 REVISED PER COUNTY AND SCD COMMENTS
 04.10.18 ADDRESS COUNTY, LOCAL COMMENTS

WATER AND SEWER PROFILES
 MYERSVILLE LIBRARY

SITUATED ON HARP PLACE, LOT 1 - PB, 98, P.42
 JACKSON ELECTION DISTRICT NO.16
 FREDERICK COUNTY, MARYLAND

SCALE:
 DRAWN BY: DLS
 CHECKED BY: MAM
 DATE: JAN. 2018
 SHEET: C-7
 OF: 12
 PROJECT: 7573
 C-7

17905.DWG (PROJECT) WATER AND SEWER PROFILES SHEET C-7
 3/29/2018 11:39 AM

MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
8 HARP PLACE
MYERSVILLE, MD 21773

PROJECT OWNER
FREDERICK COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

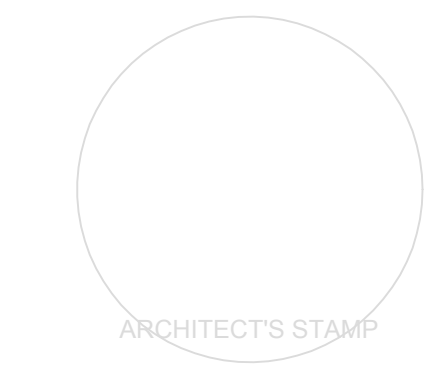
PROJECT TEAM
ARCHITECT

6 NORTH EAST STREET, SUITE 300
FREDERICK, MD | 21701-5680
P: 301.662.8611 | F: 301.662.8632
NOELKERHULL.COM
PA | MD | VA

STRUCTURAL ENGINEER
ABEL CONSULTING ENGINEERS
9055 COMPRINT COURT, SUITE 370 | GAITHERSBURG, MD | 20878
P: 301.258.8884 | F: 301.258.9457

M/E/P ENGINEER
CJI ENGINEERING
3 WEST SECOND STREET | FREDERICK, MD | 00000-0000
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CIVIL ENGINEER
HARRIS, SMARIGA & ASSOCIATES, INC.
125 SOUTH CARROLL STREET | FREDERICK, MD | 21701
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SHEET INFORMATION
KEY PLAN

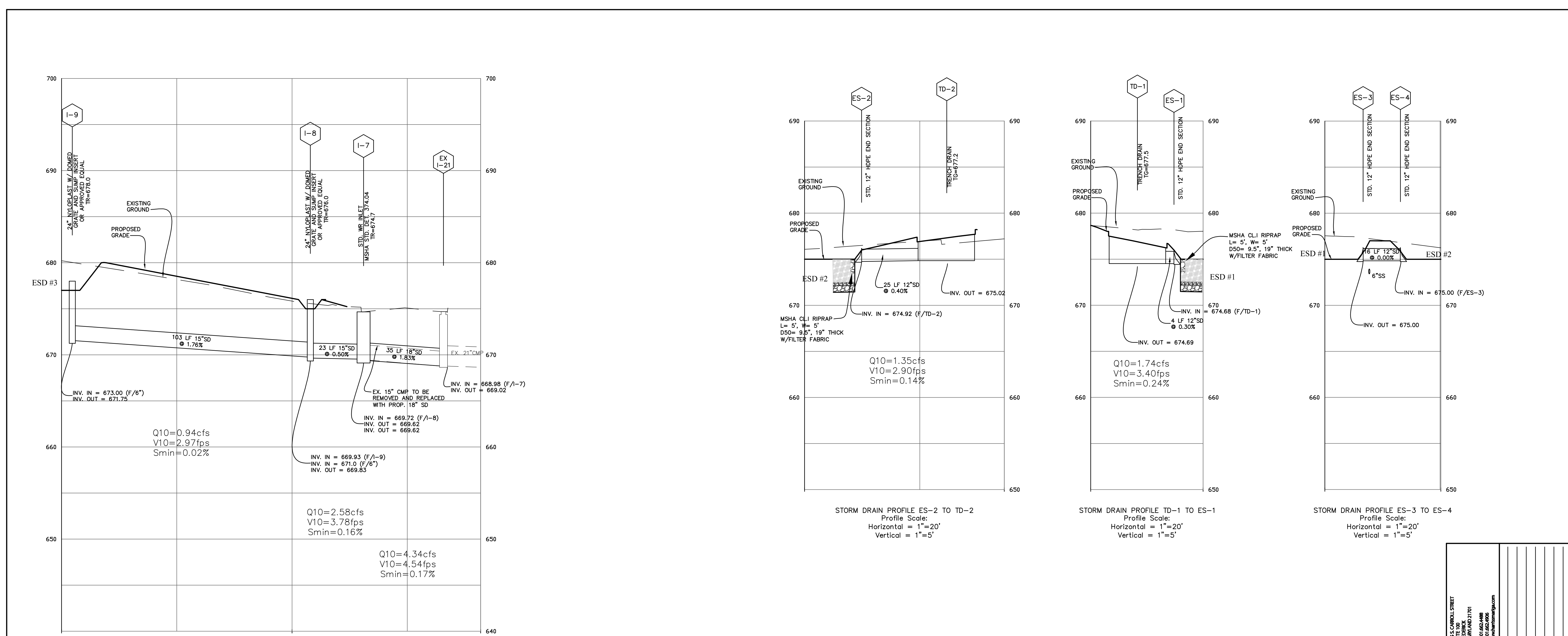
REVISIONS

REV. #	DESCRIPTION	DATE

PROJECT STATUS

JOB NUMBER: 17905
ISSUE DATE: 10 APRIL 2018
SCALE:
SHEET TITLE:

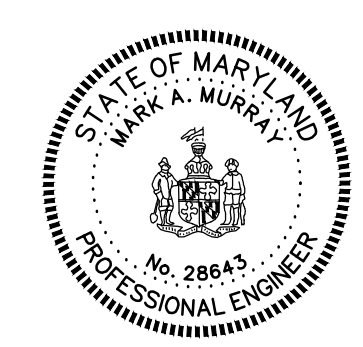
SHEET NUMBER:



I-9 TO EX. I-21
Profile Scale:
Horizontal = 1"=20'
Vertical = 1"=5'

BASIC STORMDRAIN NOTES

- ALL STORM DRAIN TO BE SMOOTHBORE, HIGH-DENSITY POLYETHYLENE PIPE MEETING THE SPECIFICATIONS OF AASHTO M294, TYPE S (EXAMPLES INCLUDE HANCOR HI-Q, ADS N-12 OR AN APPROVED EQUIVALENT). THE FOLLOWING STORMDRAIN MATERIALS MAY BE USED AS SUBSTITUTES:
 - ALUMINIZED, TYPE 2 COATED SPIRAL-RIBBED CORRUGATED METAL PIPE (3/4"x3/4"x7-1/2" CORRUGATIONS) 16 GAGE.
 - REINFORCED CONCRETE PIPE, CLASS III.
- ALL BACKFILL TO BE PER THE PIPE MANUFACTURER'S SPECIFICATIONS AT A MINIMUM. TYPICAL BACKFILL SHALL BE SUITABLE MATERIAL, SUCH AS FREE-DRAINING SANDS AND GRAVEL CONFORMING TO ASTM D2321 CLASS I, II OR III MATERIALS AND BE PLACED IN LIFTS AS NECESSARY AND COMPACTED TO 95 PERCENT MINIMUM DRY DENSITY ACCORDING TO AASHTO T99 MINIMUM (PER AASHTO T180 IN ROAD RIGHT-OF-WAY AREAS).
- LENGTH OF STORM DRAIN PIPE AND SLOPE IS FROM CL STRUCTURE TO CL STRUCTURE.
- CONTRACTOR SHALL MAINTAIN A MIN OF 1' VERTICAL CLEARANCE BETWEEN OUTSIDE OF STORM DRAIN PIPES AND ALL OTHER UTILITIES AT CROSSING.



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 28643 Expiration Date 3-26-19

CATOCIN SOIL CONSERVATION DISTRICT
APPROVED BY: *[Signature]*
DATE: 4/4/18
DISTRICT MANAGER

S.C.D. APPROVAL FOR SEDIMENT AND EROSION CONTROL IS CONTINGENT UPON ISSUANCE OF ALL APPLICABLE REGULATORY PERMITS.

SWM ONLY

FREDERICK COUNTY, MARYLAND
DEVELOPMENT REVIEW ENGINEERING

APPROVED: _____ DATE: _____
DEVELOPMENT REVIEW CHIEF

APPROVED: _____ DATE: _____
STORMWATER MANAGEMENT

REMOVED IN ACCORDANCE WITH LOCAL COUNTY REQUIREMENTS. FREDERICK COUNTY ASSUMES NO LIABILITY FOR DESIGN AND/OR CONSTRUCTION. APPROVAL IS VALID FOR TWO (2) YEARS AFTER THE LAST DATE SHOWN ABOVE. THE PROJECT MUST BE UNDER CONSTRUCTION BEFORE THE APPROVAL EXPIRES. TO BE CONSIDERED ACTIVE, OTHERWISE, RESUBMITTAL OF PLANS, INCLUDING APPLICABLE FEES, MUST BE MADE TO DEVELOPMENT REVIEW FOR REAPPROVAL. FEES FOR RESUBMITTAL CANNOT BE WAIVED.

REV. #	DATE	REVISION DESCRIPTION	CONSULTANT DATE AND INITIAL	DEV. REVIEW DATE AND INITIAL

125 S. CARROLL STREET
SUITE 100
FREDERICK, MD 21701
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HARRIS SMARIGA
PLANNERS • ENGINEERS • SURVEYORS

REVISIONS:
03.09.18 REVISED PER COUNTY AND SCD COMMENTS
04.10.18 ADDRESS COUNTY LOGS COMMENTS

STORM DRAIN PROFILES
MYERSVILLE LIBRARY

SITUATED ON HARP PLACE, LOT 1 - PB, 9B, P-42
JACKSON ELECTION DISTRICT NO.16
FREDERICK COUNTY, MARYLAND

SCALE:
AS SHOWN
DRAWN BY: DLS
CHECKED BY: MAM
DATE: JAN. 2018
SHEET: C-8
OF: 12
PROJECT: 7573
C-8

17905-03-08-DRAIN PROFILES SHEETS.dwg 4/10/2018 11:58 AM

MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
8 HARP PLACE
MYERSVILLE, MD 21773

PROJECT OWNER
FREDERICK COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

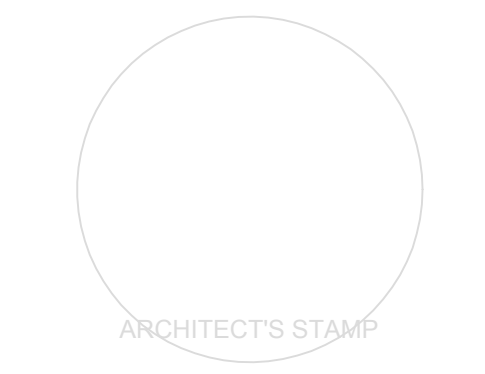
PROJECT TEAM
ARCHITECT

6 NORTH EAST STREET, SUITE 300
FREDERICK, MD | 21701-5680
P: 301.662.2611 | F: 301.662.8632
NOELKERHULL.COM
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STRUCTURAL ENGINEER
ABEL CONSULTING ENGINEERS
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P: 301.238.8884 | F: 301.258.9457

M/E/P ENGINEER
CJL ENGINEERING
3 WEST SECOND STREET | FREDERICK, MD | 00000-0000
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CIVIL ENGINEER
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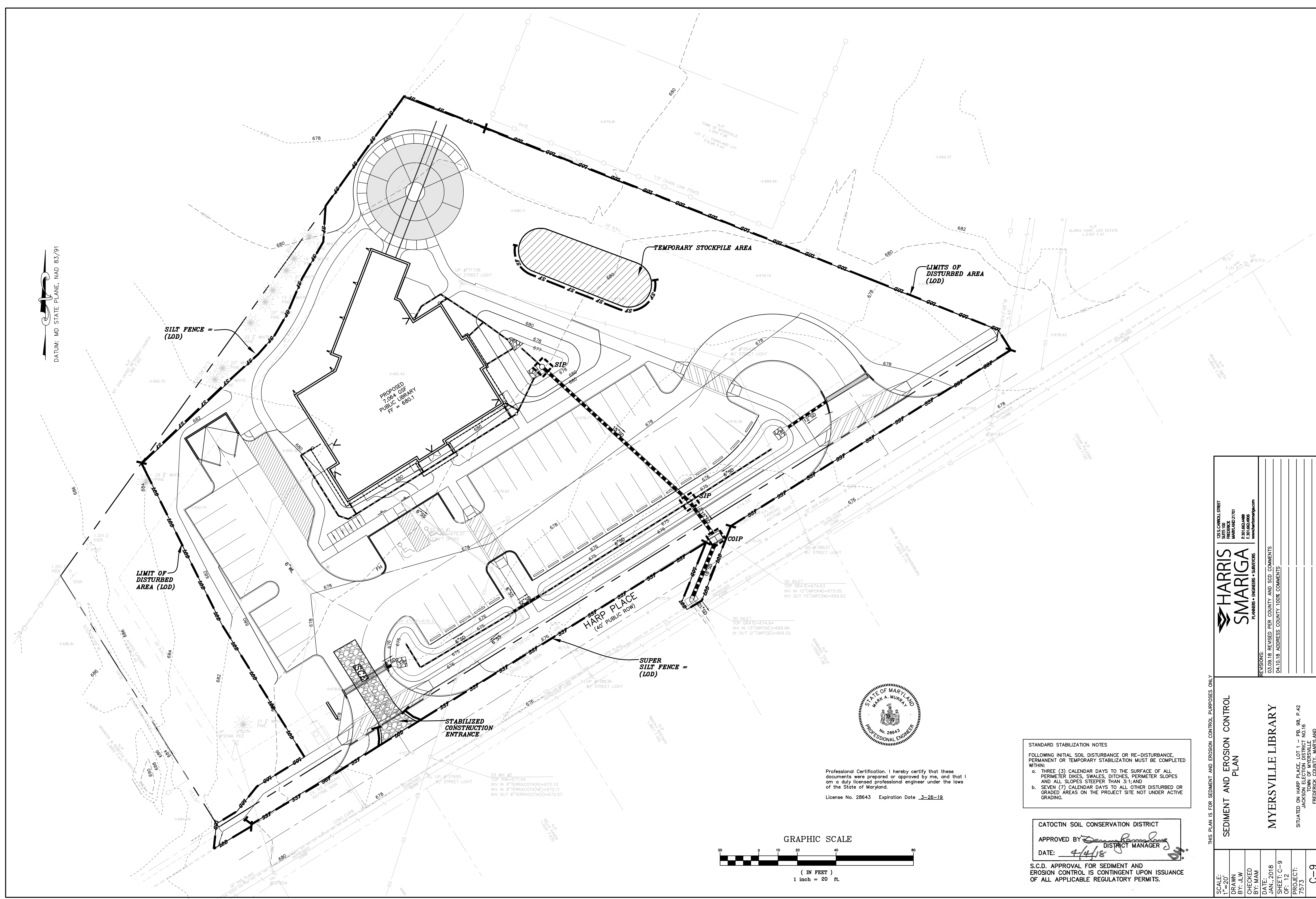


SHEET INFORMATION
KEY PLAN

REVISIONS		
REV. #:	DESCRIPTION:	DATE:

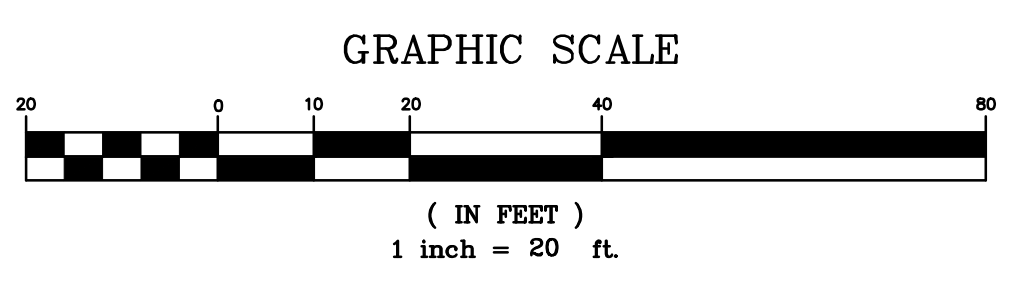
PROJECT STATUS

JOB NUMBER: 17905
ISSUE DATE: 10 APRIL 2018
SCALE:
SHEET TITLE:
SHEET NUMBER:



DATUM: MD STATE PLANE, NAD 83/91

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 28643 Expiration Date 3-28-19



STANDARD STABILIZATION NOTES
FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

- a. THREE (3) CALENDAR DAYS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1; AND
- b. SEVEN (7) CALENDAR DAYS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

CATOCTIN SOIL CONSERVATION DISTRICT
APPROVED BY: *[Signature]*
DATE: 4/4/18
DISTRICT MANAGER

S.C.D. APPROVAL FOR SEDIMENT AND EROSION CONTROL IS CONTINGENT UPON ISSUANCE OF ALL APPLICABLE REGULATORY PERMITS.

THIS PLAN IS FOR SEDIMENT AND EROSION CONTROL PURPOSES ONLY

HARRIS SMARIGA
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REVISIONS:
03.09.18 REVISED PER COUNTY AND SCD COMMENTS
04.10.18 ADDRESS COUNTY, LOCAL COMMENTS

SEDIMENT AND EROSION CONTROL PLAN

MYERSVILLE LIBRARY

SITUATED ON HARP PLACE, LOT 1 - PB, 9B, P 42
JACKSON ELECTION DISTRICT NO. 16
FREDERICK COUNTY, MARYLAND

SCALE:
1" = 20'
DRAWN BY: JLW
CHECKED BY: MAM
DATE: JAN. 2018
SHEET: C-9
OF: 12
PROJECT: 7573
C-9

MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
8 HARP PLACE
MYERSVILLE, MD 21773

PROJECT OWNER
FREDERICK COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

PROJECT TEAM
ARCHITECT

PROJECT TEAM
ARCHITECT

ARCHITECT

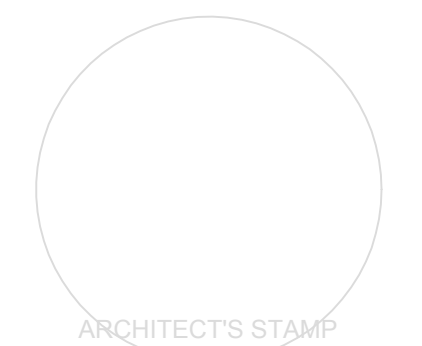
VICINITY & SOILS MAP
TAX MAP 70, PARCEL 320
SCALE: 1"=1000'

6 NORTH EAST STREET, SUITE 300
FREDERICK, MD | 21701-5680
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SHEET INFORMATION

KEY PLAN

Table with 3 columns: REV. #, DESCRIPTION, DATE. Includes revision history for the drawing.

PROJECT STATUS

JOB NUMBER: 17905
ISSUE DATE: 10 APRIL 2018
SCALE:
SHEET TITLE:

SHEET NUMBER:

SEDIMENT & EROSION CONTROL NOTES

- 1. ALL EROSION/SEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" AS APPROVED BY THE COUNTY.
2. ALL DISTURBED AREAS NOT UNDER ACTIVE GRADING TO BE SEEDED WITHIN 7 DAYS OF INITIAL GRADING...

PERMANENT SEEDING & SOD NOTES

- GENERAL
1. SCOPE: PLANTING PERMANENT, LONG-LIVED VEGETATIVE COVER ON GRADED OR CLEARED AREAS.
2. STANDARDS: PERMANENT SEEDING SHALL CONFORM TO ALL REQUIREMENTS OF "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL"...

TEMPORARY SEEDING NOTES

- GENERAL
1. SCOPE: PLANTING SHORT TERM VEGETATION TO STABILIZE CLEARED OR GRADED AREAS SUBJECT TO EROSION FOR A PERIOD OF 7 DAYS OR MORE.
2. STANDARDS: TEMPORARY SEEDING SHALL CONFORM TO ALL REQUIREMENTS OF "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL"...

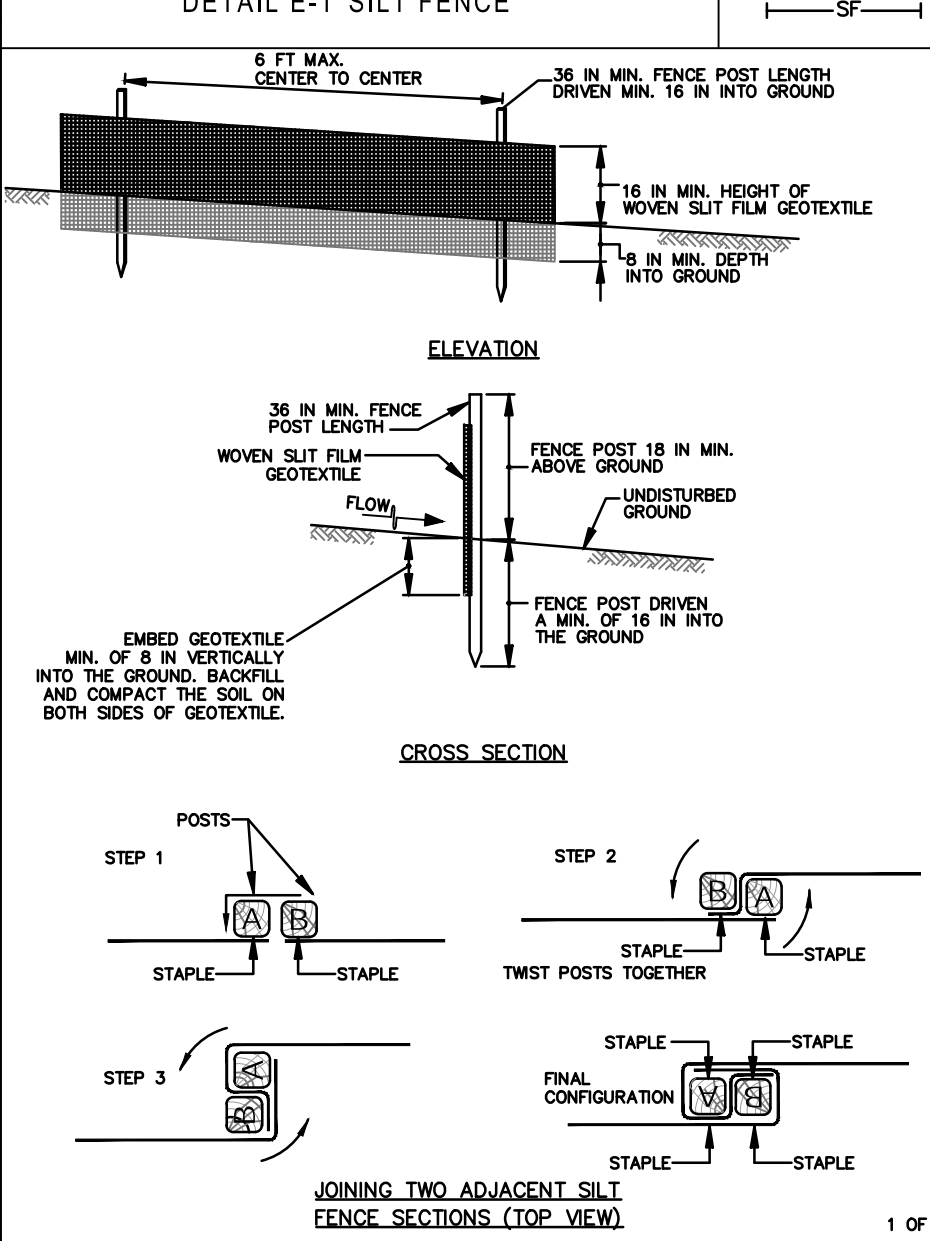
GENERAL

- 1. SITE PREPARATION
A. PRIOR TO SEEDING, INSTALL ALL REQUIRED SEDIMENT EROSION CONTROL MEASURES.
2. SOIL AMENDMENTS
A. FERTILIZER SHALL BE APPLIED AT THE RATE OF 1000 LBS/ACRE USING 10-10-10 OR EQUIVALENT.
3. SEEDING
A. SELECT A MIXTURE FROM TABLE B.2 & B.3 IN STANDARD SPECIFICATIONS...

PERMANENT STABILIZATION WITH SOD

- 1. ALL SPECIFICATIONS, SITE PREPARATION, INSTALLATION AND MAINTENANCE OF SOD FOR PERMANENT, LONG-LIVED VEGETATIVE COVER SHALL CONFORM TO SECTION B OF "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL"...

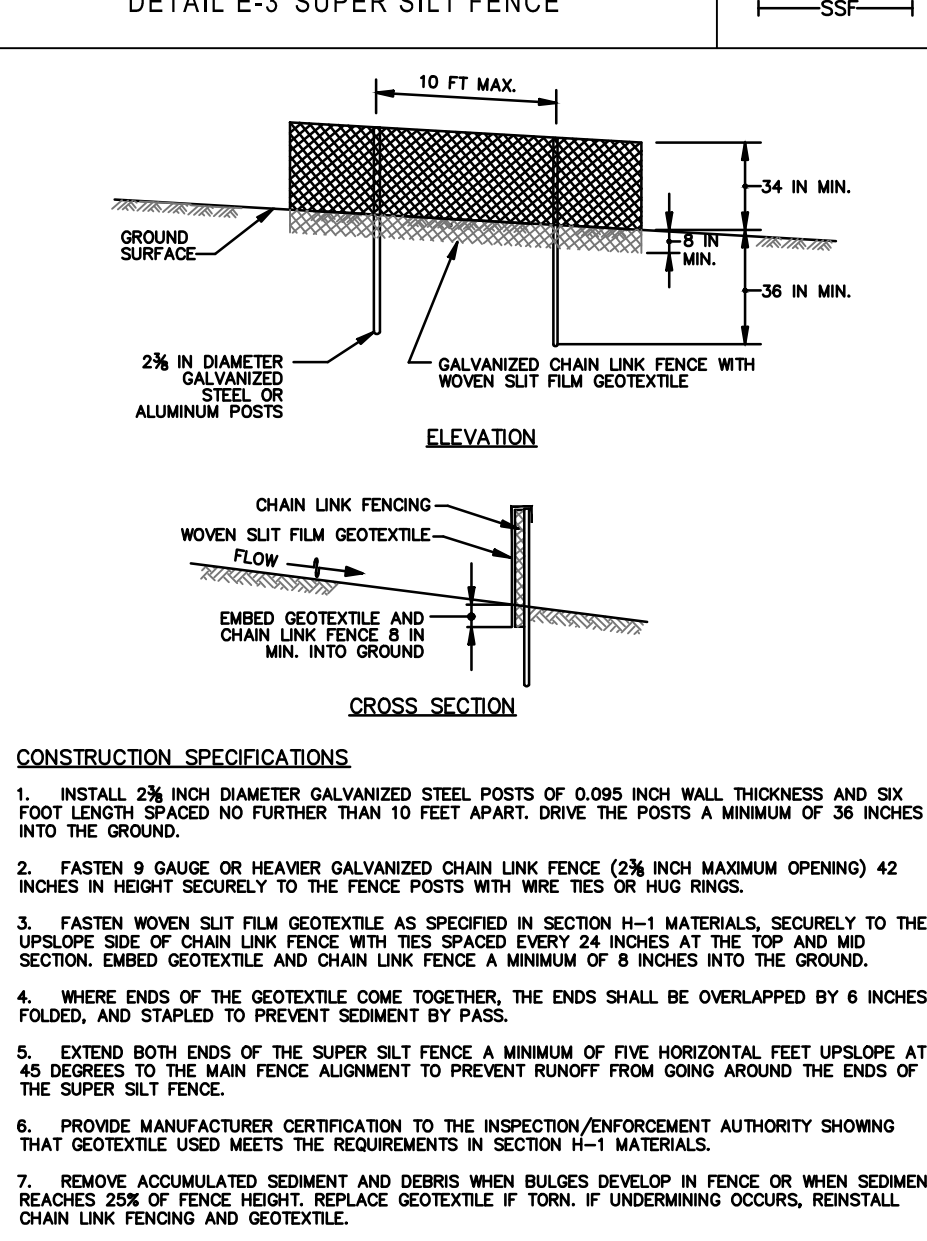
DETAIL E-1 SILT FENCE



DETAIL E-1 SILT FENCE

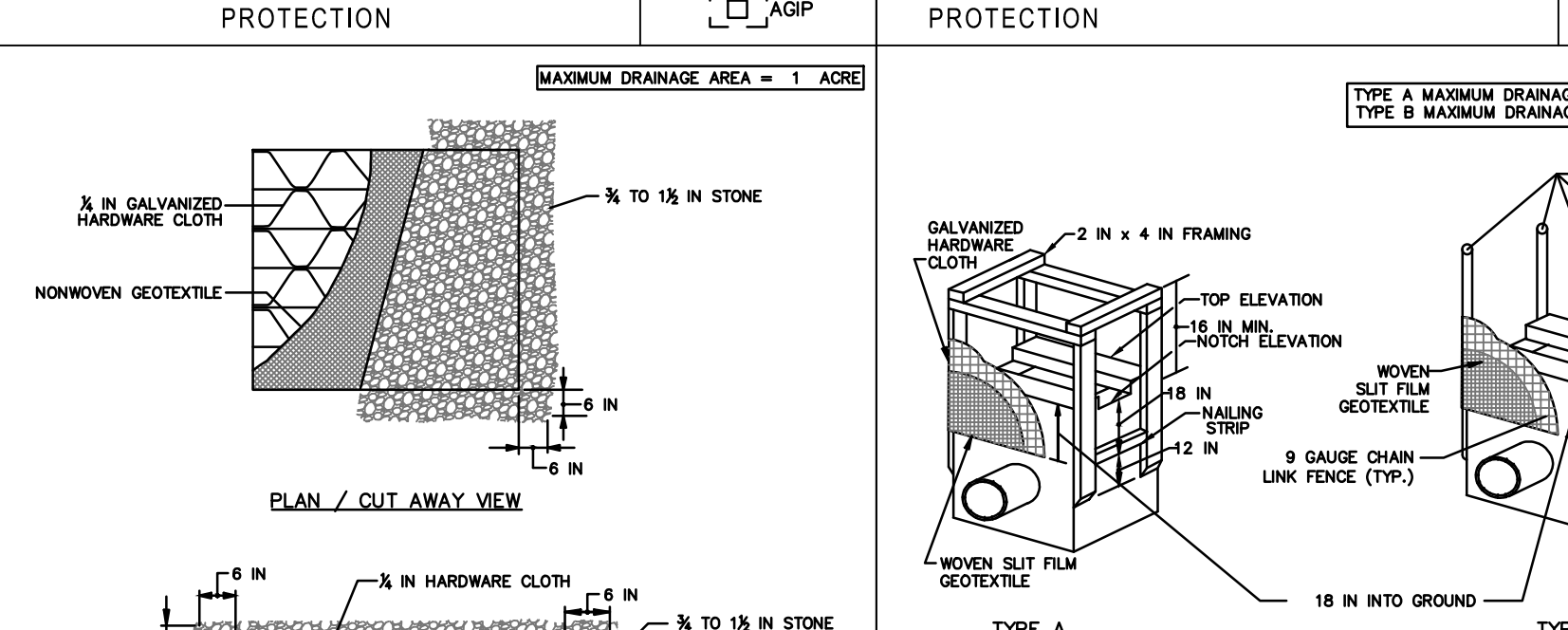
CONSTRUCTION SPECIFICATIONS
1. USE WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPOURSE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
2. USE 3/8 INCH MINIMUM POSTS DRIVEN 8 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.

DETAIL E-3 SUPER SILT FENCE

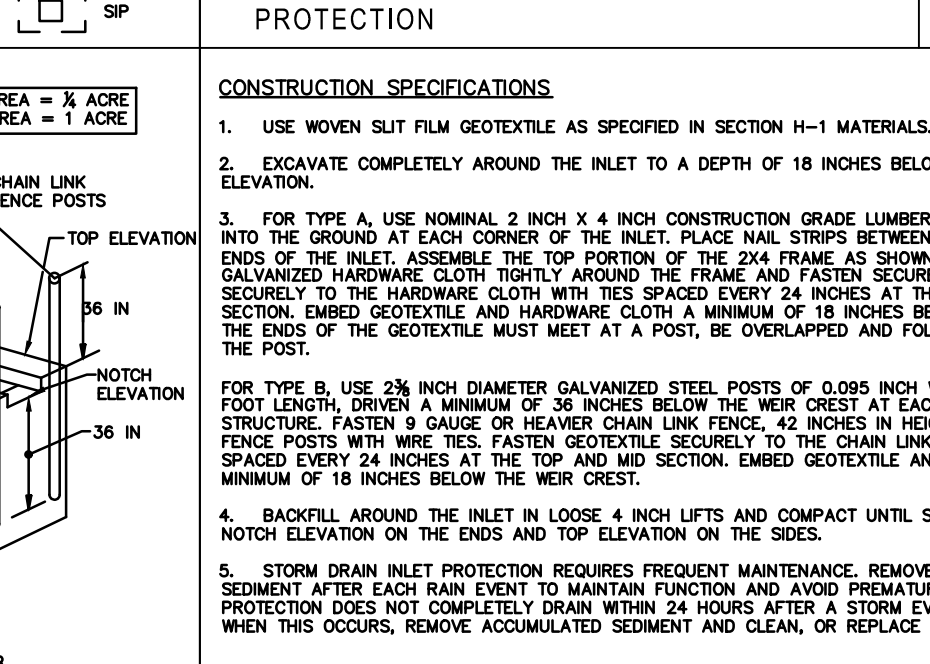


CONSTRUCTION SPECIFICATIONS
1. INSTALL 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.085 INCH WALL THICKNESS AND SIX FEET LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 30 INCHES INTO THE GROUND.

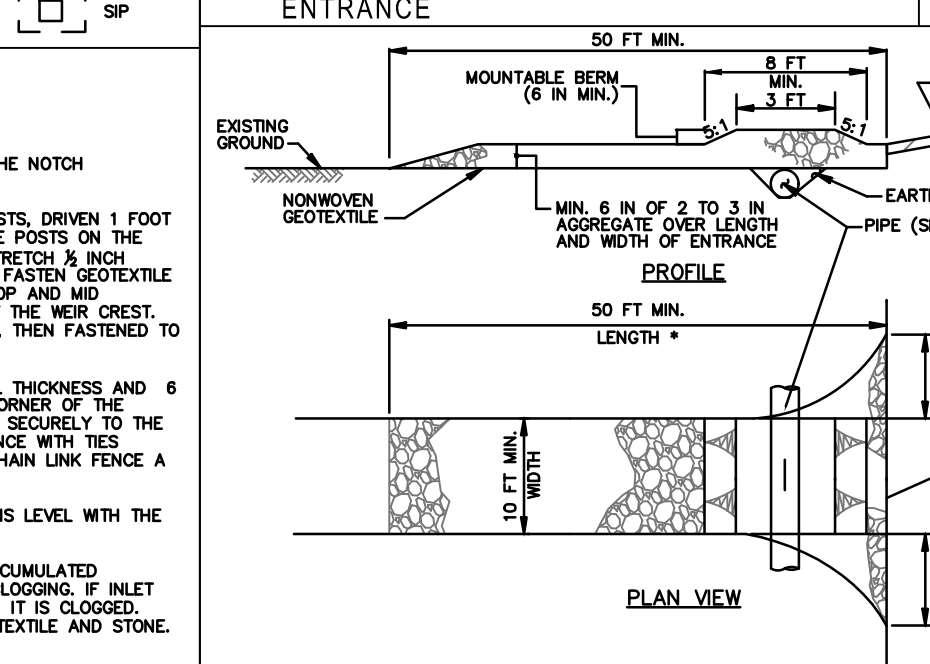
DETAIL E-9-2 AT-GRADE INLET PROTECTION



DETAIL E-9-1 STANDARD INLET PROTECTION



DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE



CONSTRUCTION SPECIFICATIONS
1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SIDE. USE MINIMUM LENGTH OF 90 FEET (90 FEET FOR SINGLE RESIDENCE LOTS). USE MINIMUM WIDTH OF 10 FEET. FLARE SIDE TO FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING SPACE.

CONSTRUCTION SPECIFICATIONS
1. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
2. LIFT GRATE AND WRAP WITH NONWOVEN GEOTEXTILE TO COMPLETELY COVER ALL OPENINGS. SECURE WITH WIRE TIES AND SET BACK 6 INCHES FROM THE EDGE OF THE GRATE.

CONSTRUCTION SPECIFICATIONS
1. EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 18 INCHES BELOW THE NOTCH ELEVATION.
2. FOR TYPE A, USE NOMINAL 2 INCH X 4 INCH CONSTRUCTION GRADE LUMBER POSTS, SPACING 1 FOOT INTO THE GROUND AT EACH CORNER OF THE INLET. PLACE NAUL STRIPS BETWEEN THE POSTS ON THE STRUCTURE. FASTEN LUMBER OR HEAVIER GALVANIZED CHAIN LINK FENCE TO THE GEOTEXTILE SECURELY TO THE HARDWARE CLOTH WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND HARDWARE CLOTH A MINIMUM OF 18 INCHES BELOW THE NOTCH. THE EDGE OF THE GEOTEXTILE MUST MEET AT A POST. BE OVERLAPPED AND FOLDED, THEN FASTENED TO THE POST.

FOR UTILITY WORK ONLY OR FOR OFF-SITE UTILITY WORK

- 1. DISTURBANCE OUTSIDE OF LODA CAN NOT EXCEED 5000 SQUARE FEET.
2. PLACE ALL EXCAVATED MATERIAL ON HIGH SIDE OF TRENCH.
3. ONLY DO AS MUCH WORK AS CAN BE DONE IN ONE DAY SO BACKFILLING, FINAL GRADING, SEEDING AND MULCHING CAN OCCUR.

NOTES FOR SECONDARY UTILITY WORK ONLY

- A. ALL DISTURBANCES FROM SECONDARY UTILITIES SUCH AS PHONE CABLE, ELECTRIC CABLE, T.V. CABLE, ETC. WILL BE SUBCONTRACTORS RESPONSIBILITY TO BRING WORK AREA BACK TO GRADE LEVEL THAT WAS EXISTING AND SEED AND MULCH ANY DISTURBANCE FROM INSTALLATION OF LINES OR CONDUIT.
B. SUBCONTRACTORS WILL BE RESPONSIBLE FOR RE-INSTALLING OR REPAIRING ANY SILT FENCE OR SEDIMENT CONTROLS THAT WERE EXISTING TO MAINTAIN PROPER SEDIMENT CONTROL THAT MIGHT HAVE BEEN DAMAGED.

NOTES

- 1. NO STOCKPILES ALLOWED ON ASPHALT.
2. ALL STOCKPILES LEFT AT THE END OF DAY NEED TO BE STABILIZED UNTIL THE NEXT DISTURBANCE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, 2011.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, 2011.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, 2011.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, 2011.

CHECKLIST FOR REQUIRED INSPECTIONS

YOU MUST NOTIFY THE DIVISION OF ENVIRONMENTAL COMPLIANCE SECTION (ECS) AT 301-660-3507 BEFORE 9:00 AM 24 HOURS PRIOR TO THE REQUIRED INSPECTION. FAILURE TO NOTIFY THE AGENCY WILL RESULT IN A STOP WORK ORDER OR OTHER PENALTIES AS OUTLINED IN FREDERICK COUNTY CODES.

THIS LIST IS FOR SEQUENCE OF CONSTRUCTION ONLY. FREDERICK COUNTY ASSUMES NO RESPONSIBILITY OR LIABILITY FOR IMPROPER INSTALLATION OF ANY ITEM ON THIS CHECKLIST. A PROFESSIONAL ENGINEER OR THEIR DESIGNEE MUST CERTIFY ALL ASPECTS OF CONSTRUCTION AND CONFORMANCE TO DESIGN REQUIREMENTS.

Table with 3 columns: TYPE OF INSPECTION, DEVELOPER APPROVAL/DATE, and EIA INSPECTION/DATE. Lists various inspection types like PRE-CONSTRUCTION MEETING, COMPLETION OF SEDIMENT CONTROL MEASURES, etc.

SEQUENCE OF CONSTRUCTION

- 1. CONTRACTOR TO HOLD A PRE-CONSTRUCTION MEETING AND SHALL NOTIFY MISS UTILITY 7-800-257-7777 A MINIMUM OF 5 WORKING DAYS AND THE E.C.S. INSPECTOR (301) 600-3507, 48 HOURS PRIOR TO START OF CONSTRUCTION. PERIMETER CONTROLS MUST BE STAPLED OUT PRIOR TO PRE-CONSTRUCTION MEETING.
2. PERFORM CLEARING AND GRUBBING REQUIRED FOR INSTALLATION OF PERIMETER CONTROLS, INCLUDING SILT FENCE, STONE FILTERS AND STABILIZED CONSTRUCTION ENTRANCE.
3. INSTALL PERIMETER CONTROLS. NOTIFY SEDIMENT CONTROL INSPECTOR AND OBTAIN APPROVAL BEFORE PROCEEDING FURTHER. ANY OTHER DISTURBED AREAS NOT ACTIVELY UNDER CONSTRUCTION MUST BE STABILIZED WITHIN 7 DAYS.
4. COMPLETE ALL REQUIRED CLEARING AND GRUBBING.
5. CONTRACTOR SHALL TEST PIT IN THE AREA OF KNOWN EXISTING UTILITIES TO VERIFY SIZE, LOCATION, ELEVATION AND TYPE PRIOR TO PERFORMING FURTHER WORK. POTENTIAL CONFLICTS ARE TO BE RESOLVED BEFORE PROCEEDING WITH ANY FURTHER WORK.
6. PERFORM DEMOLITION AS SHOWN. ONCE COMPLETE, PERFORM GRADING AS SHOWN AND BEGIN INSTALLATION OF PROPOSED WATER, SEWER AND STORM DRAIN LINES WITH INLET PROTECTION AND BUILDING CONSTRUCTION. EXCAVATE ESD AREAS, BUT DO NOT INSTALL MEDIA, UNDERDRAINS, ETC. UNTIL SITE IS IN FINAL STABILIZATION.
7. ONCE UTILITIES ARE INSTALLED AND BUILDING CONSTRUCTION IS COMPLETE, COMPLETE FINAL PAVING, LANDSCAPING, STABILIZATION, AND ESD PRACTICE INSTALLATION.
8. NOTIFY SEDIMENT CONTROL INSPECTOR AND OBTAIN PERMISSION TO REMOVE SEDIMENT EROSION CONTROL.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, 2011.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, 2011.

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CATOCOTIN SOIL CONSERVATION DISTRICT

APPROVED BY [Signature] DISTRICT MANAGER
DATE: 4/4/18

Professional Certification, I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. 28643 Expiration Date 3-26-19

S.C.D. APPROVAL FOR SEDIMENT AND EROSION CONTROL IS CONTINGENT UPON ISSUANCE OF ALL APPLICABLE REGULATORY PERMITS.

HARRIS SMARIGA
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SEDIMENT AND EROSION CONTROL NOTES AND DETAILS
MYERSVILLE LIBRARY
STATUTED ON HARP PLACE, LOT 1 - PB. 98, P. 42
JACKSON ELECTION DISTRICT NO. 16
FREDERICK COUNTY, MARYLAND
4/20/18 11:58 AM

MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
8 HARP PLACE
MYERSVILLE, MD 21773

PROJECT OWNER
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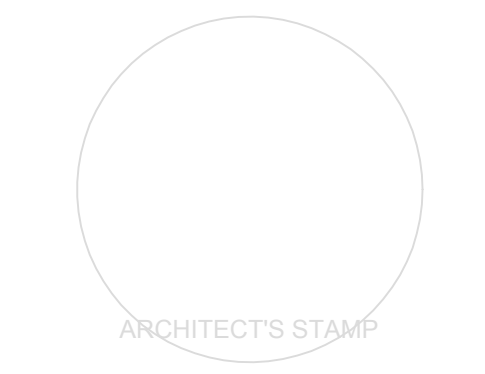
PROJECT TEAM
ARCHITECT

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SHEET INFORMATION
KEY PLAN

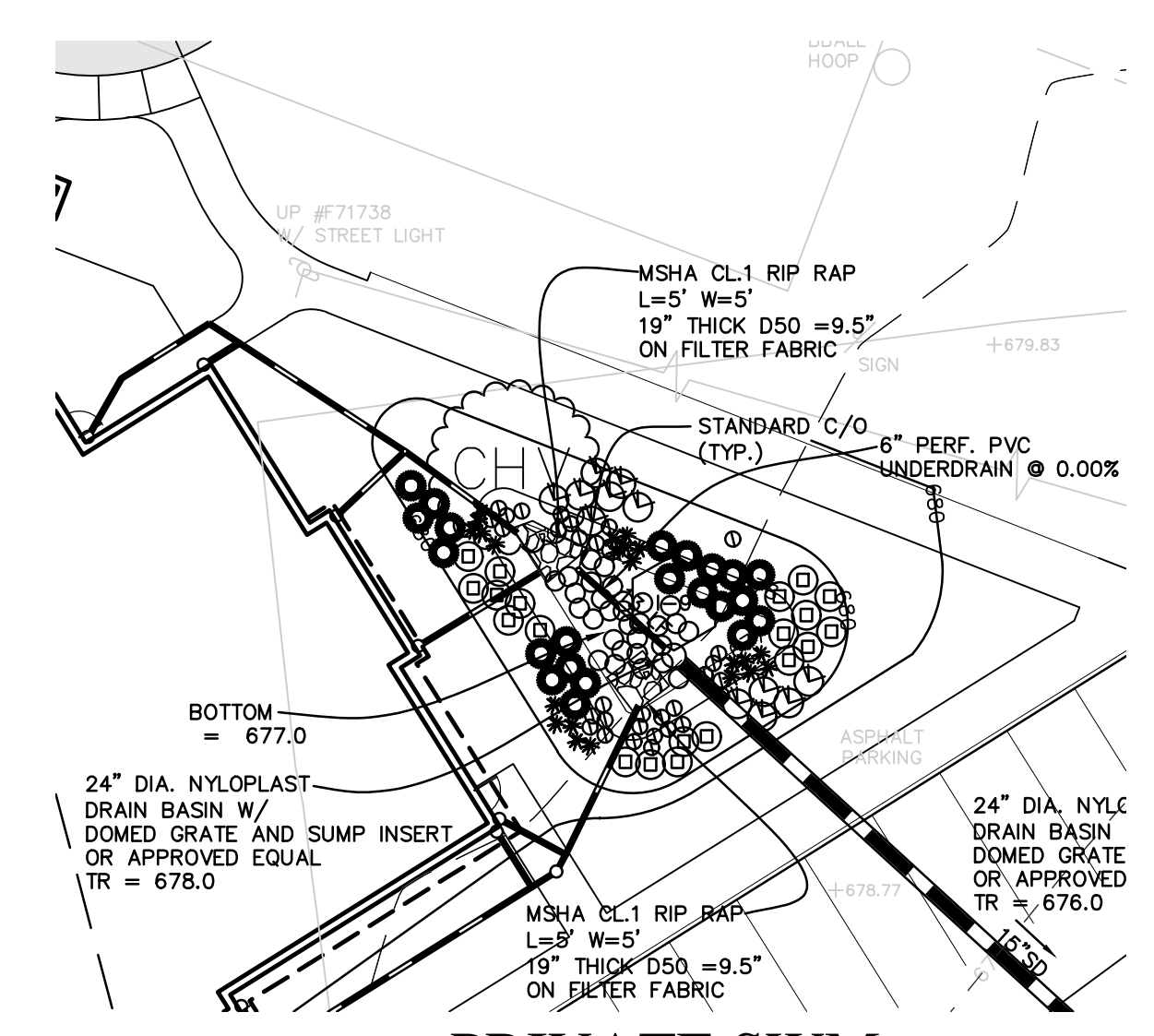
REVISIONS

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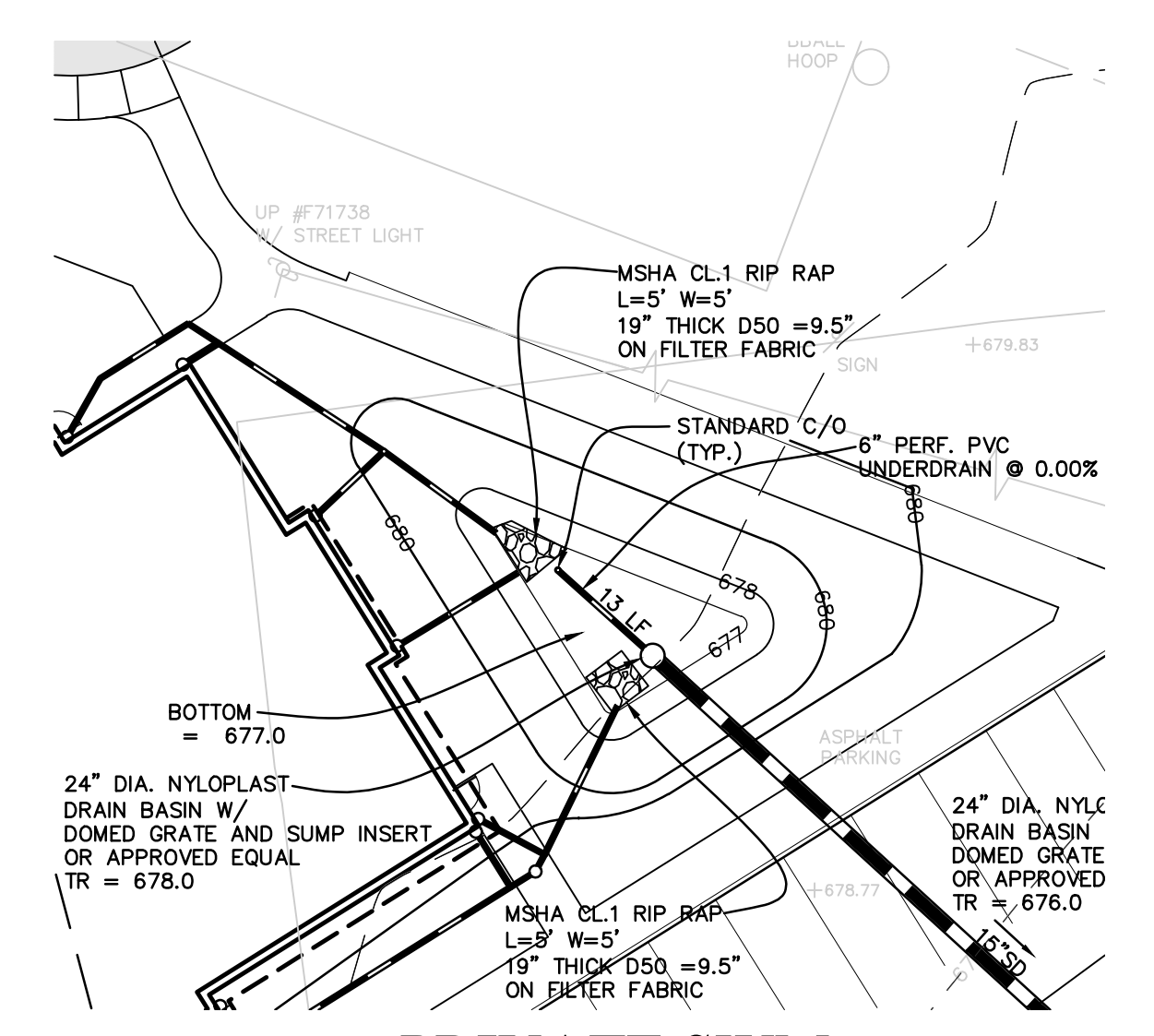
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JOB NUMBER: 17905
ISSUE DATE: 10 APRIL 2018
SCALE:
SHEET TITLE:

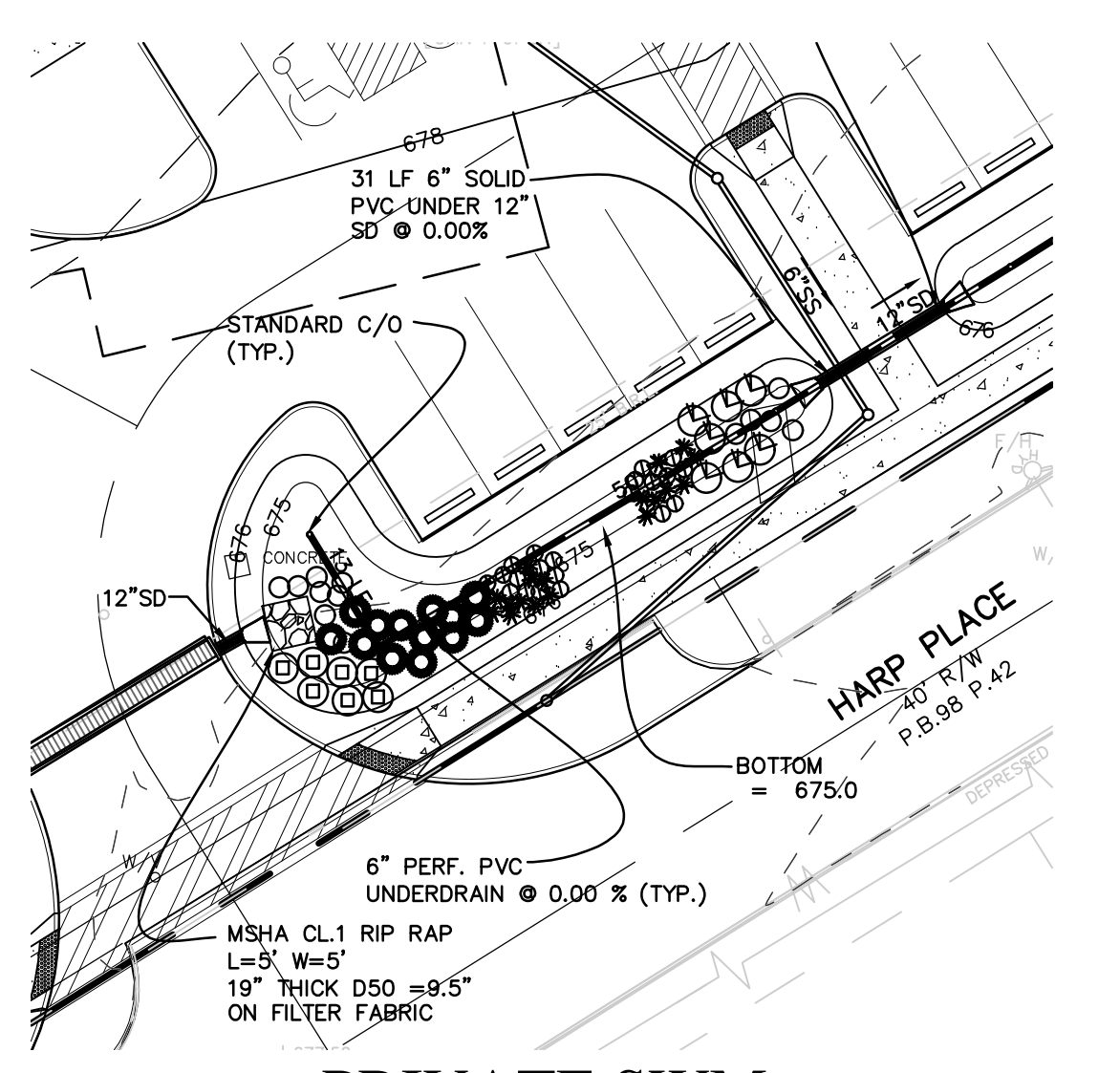
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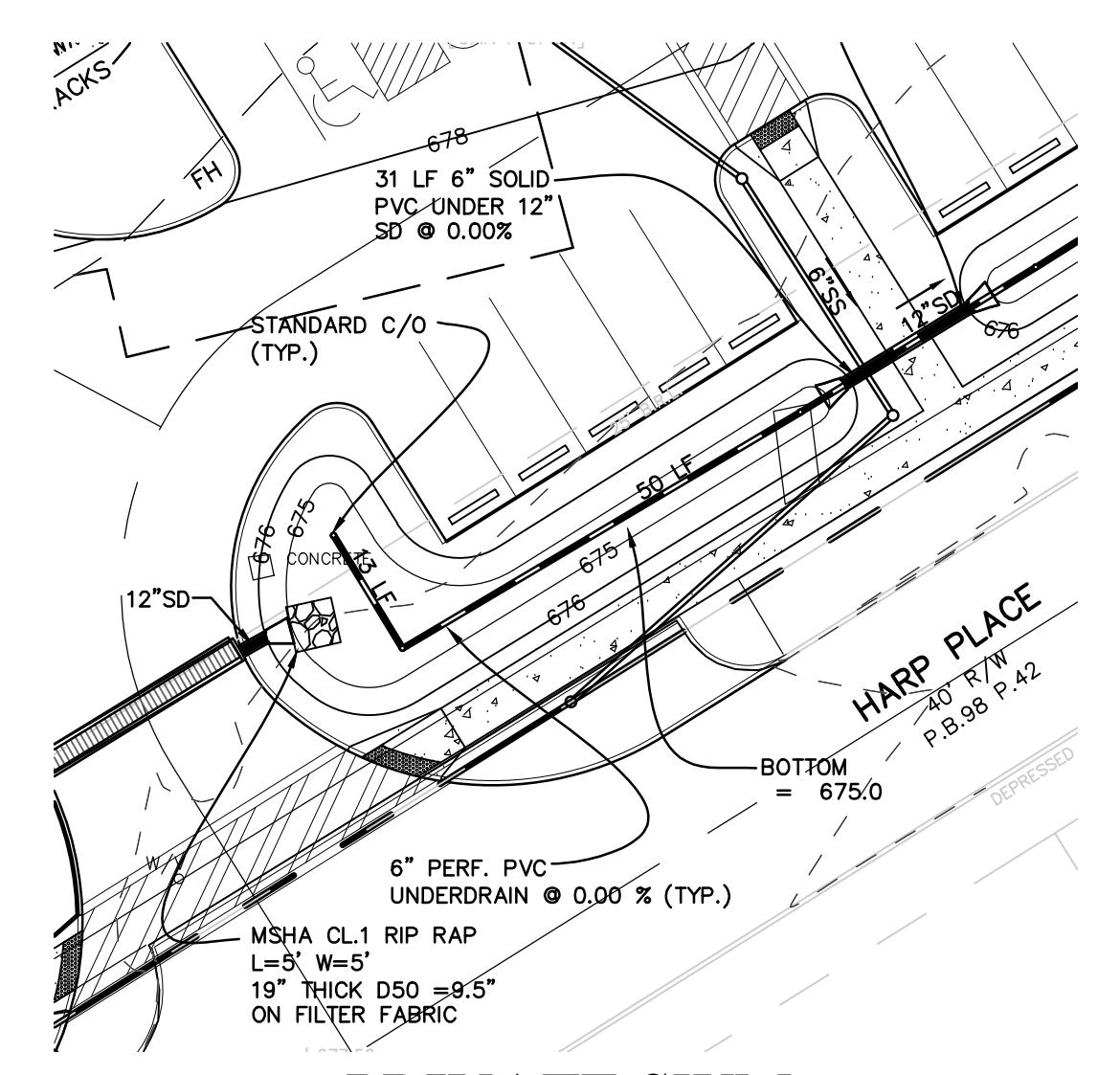
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ESD #3: MICRO-BIORETENTION
LANDSCAPE PLAN**
SCALE: 1" = 20'



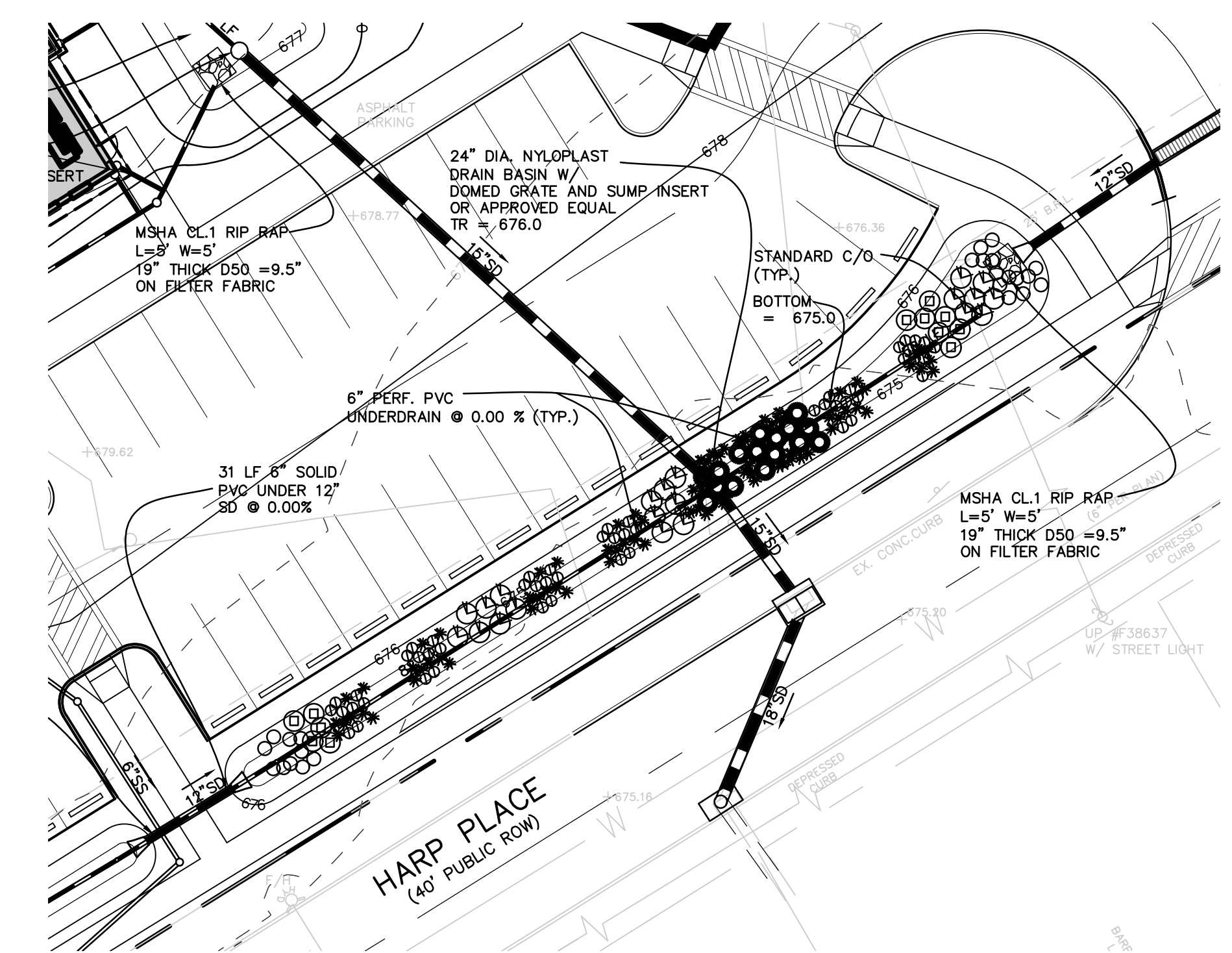
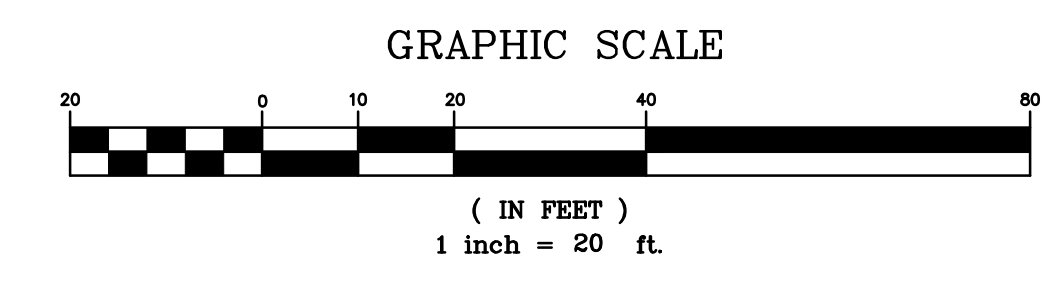
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ESD #3: MICRO-BIORETENTION
LANDSCAPE PLAN**
SCALE: 1" = 20'



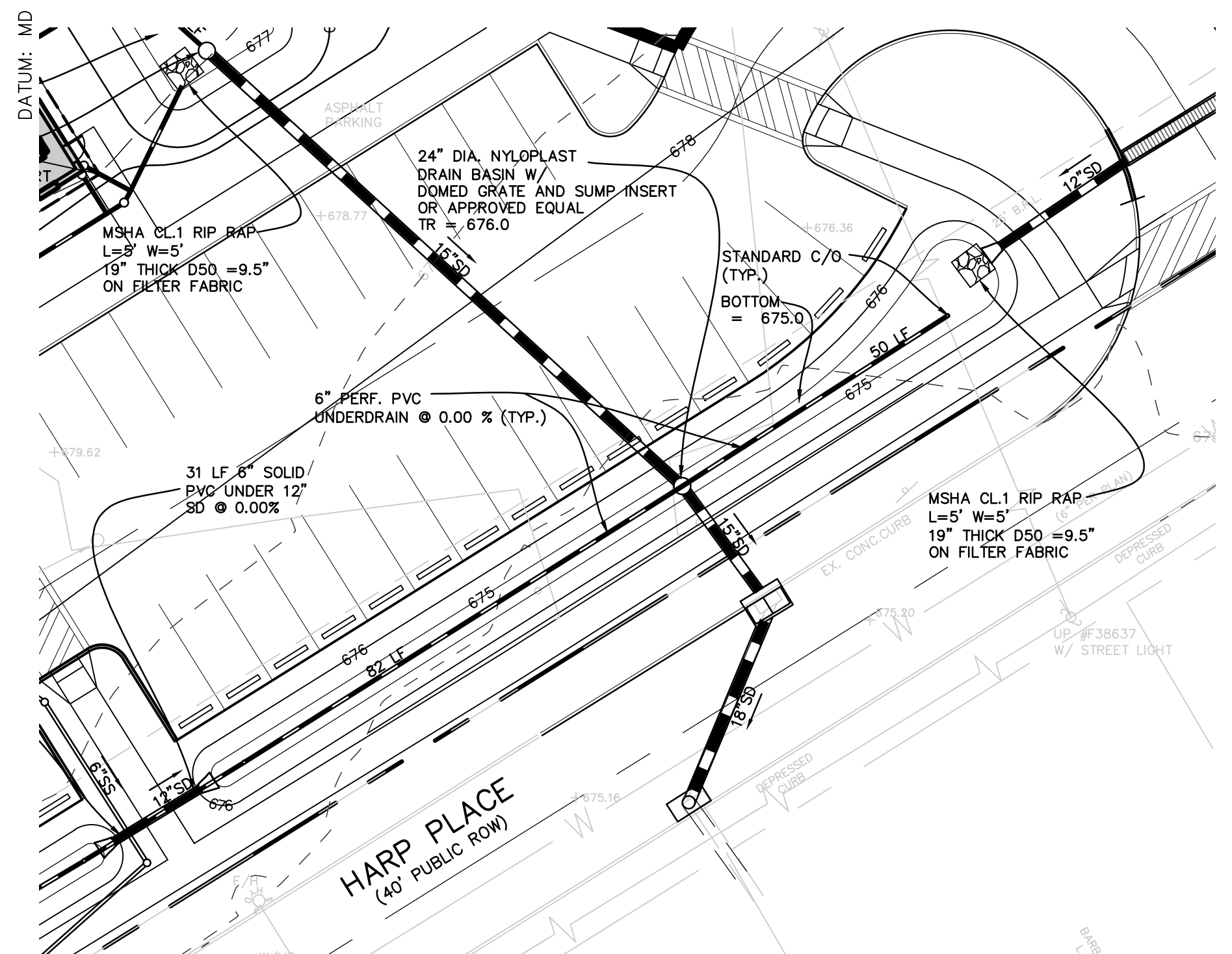
**PRIVATE SWM
ESD #1: MICRO-BIORETENTION
LANDSCAPE PLAN**
SCALE: 1" = 20'



**PRIVATE SWM
ESD #1: MICRO-BIORETENTION
LANDSCAPE PLAN**
SCALE: 1" = 20'



**PRIVATE SWM
ESD #2: MICRO-BIORETENTION
LANDSCAPE PLAN**
SCALE: 1" = 20'



**PRIVATE SWM
ESD #2: MICRO-BIORETENTION
LANDSCAPE PLAN**
SCALE: 1" = 20'



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 28643 Expiration Date 3-26-19

CATOCTIN SOIL CONSERVATION DISTRICT
APPROVED BY: *[Signature]*
DATE: 4/4/18
DISTRICT MANAGER

S.C.D. APPROVAL FOR SEDIMENT AND EROSION CONTROL IS CONTINGENT UPON ISSUANCE OF ALL APPLICABLE REGULATORY PERMITS.

SWM ONLY

**FREDERICK COUNTY, MARYLAND
DEVELOPMENT REVIEW ENGINEERING**

APPROVED: _____ DATE: _____
DEVELOPMENT REVIEW CHIEF

APPROVED: _____ DATE: _____
STORMWATER MANAGEMENT

REVIEWED IN ACCORDANCE WITH LOCAL COUNTY REQUIREMENTS. FREDERICK COUNTY ASSUMES NO LIABILITY FOR DESIGN AND/OR CONSTRUCTION. APPROVAL IS VALID FOR TWO (2) YEARS AFTER THE LAST DATE SHOWN ABOVE. THE PROJECT MUST BE UNDER CONSTRUCTION BEFORE THE APPROVAL EXPIRES. TO BE CONSIDERED ACTIVE, CONSTRUCTION RESUBMITTAL OF PLANS INCLUDING APPLICABLE FEES MUST BE MADE TO DEVELOPMENT REVIEW FOR REAPPROVAL. FEES FOR RESUBMITTAL CANNOT BE WAIVED.

REV. #	DATE	REVISION DESCRIPTION	CONSULTANT: DATE AND INITIAL	DEV. REVIEW: DATE AND INITIAL

ESD #1 MICRO-BIORETENTION PLANT LIST

KEY	COMMON NAME	BOTANICAL NAME	QTY	SIZE
	Red Switch Grass	Panicum virgatum 'Rotstrahlbusch'	13	3 gal. cont.
	Artic Fire Red Twig Dogwood	Cornus sericea 'Artic Fire'	17	3 gal. cont.
	Tuussock Sedge	Carex stricta	1	1 gal. cont.
	Red Cardinal Flower	Lobelia cardinalis	21	1 gal. cont.
	Blackeyed Susan	Rudbeckia hirta	18	1 gal. cont.
	Henry's Garnet Sweetspire	Itea virginica 'Henry's Garnet'	7	3 gal. cont.

ESD #2 MICRO-BIORETENTION PLANT LIST

KEY	COMMON NAME	BOTANICAL NAME	QTY	SIZE
	Red Switch Grass	Panicum virgatum 'Rotstrahlbusch'	16	3 gal. cont.
	Artic Fire Red Twig Dogwood	Cornus sericea 'Artic Fire'	12	5 gal. cont.
	Tuussock Sedge	Carex stricta	23	1 gal. cont.
	Red Cardinal Flower	Lobelia cardinalis	52	1 gal. cont.
	Blackeyed Susan	Rudbeckia hirta	79	1 gal. cont.
	Henry's Garnet Sweetspire	Itea virginica 'Henry's Garnet'	21	3 gal. cont.

ESD #3 MICRO-BIORETENTION PLANT LIST

KEY	COMMON NAME	BOTANICAL NAME	QTY	SIZE
	Red Switch Grass	Panicum virgatum 'Rotstrahlbusch'	22	3 gal. cont.
	Artic Fire Red Twig Dogwood	Cornus sericea 'Artic Fire'	20	3 gal. cont.
	Tuussock Sedge	Carex stricta	31	1 gal. cont.
	Red Cardinal Flower	Lobelia cardinalis	31	1 gal. cont.
	Blackeyed Susan	Rudbeckia hirta	22	1 gal. cont.
	Henry's Garnet Sweetspire	Itea virginica 'Henry's Garnet'	12	3 gal. cont.
	Fringe Tree	Chiocanthus virginicus	1	5-6 ft.

125 S. CARROLL STREET
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STORMWATER MANAGEMENT PLAN
MYERSVILLE LIBRARY

SITUATED ON HARP PLACE, LOT 1 - PB 98, P 42
JACKSON ELECTION DISTRICT NO. 16
FREDERICK COUNTY, MARYLAND
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SCALE:
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DRAWN BY: RLP
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DATE: JAN. 2018
SHEET: C-11
PROJECT: 7573
C-11

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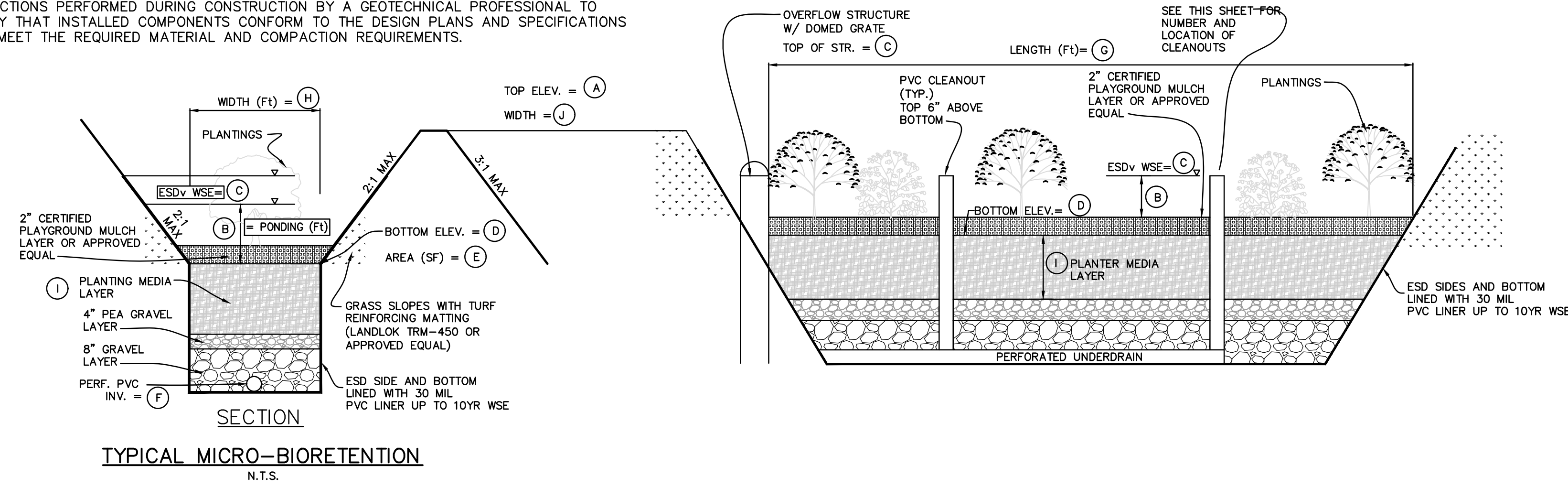
REV. #	DESCRIPTION	DATE

JOB NUMBER:	17905
ISSUE DATE:	10 APRIL 2018
SCALE:	
SHEET TITLE:	
SHEET NUMBER:	

Appendix B.4. Construction Specifications for Environmental Site Design Practices

Material	Specification	Size	Notes
Plantings	see Appendix A, Table A.4	n/a	plantings are site-specific
Planting soil [2' to 4' deep]	loamy sand (60 - 65%) & compost (35 - 40%) or sandy loam (30%), coarse sand (30%) & compost (40%)	n/a	USDA soil types loamy sand or sandy loam; clay content < 5%
Organic content	Min. 10% by dry weight (ASTM D 2974)		
(SEE DETAIL)			
Pea gravel diaphragm	pea gravel: ASTM-D-448	NO. 8 OR NO. 9 (1.8" TO 3.8")	
Curtain drain	ornamental stone: washed cobbles	stone: 2" to 5"	
Geotextile		n/a	PE Type I nonwoven
Gravel (underdrains and infiltration berms)	AASHTO M-43	NO. 57 OR NO. 6 AGGREGATE (1.8" TO 3.8")	
Underdrain piping	7 7/8", Type PS 28 or AASHTO M-278	4" to 6" rigid schedule 40 PVC or SDR35	Slotted or perforated pipe; 3/8" perf. @ 6" on center, 4 holes per row; minimum of 3" of gravel over pipes; not necessary underneath pipes. Perforated pipe shall be wrapped with 1/4-inch galvanized hardware cloth
Poured in place concrete (if required)	MSHA Mix No. 3; F _c = 3500 psi @ 28 days, normal weight, air-entrained; reinforcing to meet ASTM-615-540	n/a	on-site testing of poured-in-place concrete required; 28 day strength test; all concrete design (cast-in-place or pre-cast) not using previously approved State or local standards requires design drawings sealed and approved by a professional structural engineer licensed in the State of Maryland - design to include meeting ACI Code 308.8R-99 vertical loading (H-10 or H-20); allowable horizontal loading (based on soil pressure); and analysis of potential cracking
Sand	AASHTO-M-6 or ASTM-C-33	0.02" to 0.04"	Sand substitutions such as Diabase and Graystone (AASHTO #10) are not acceptable. No calcium carbonate or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand.

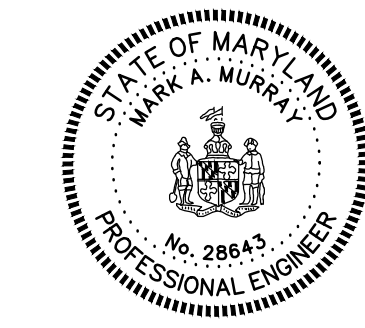
NOTE: THE CONTRACTOR IS RESPONSIBLE FOR HAVING A MARYLAND PROFESSIONAL ENGINEER OR REGISTERED SURVEYOR PERFORM AN AS-BUILT SURVEY OF THE COMPLETED STORMWATER MANAGEMENT FACILITIES. UNLESS OTHERWISE STATED IN THE SPECIFICATIONS OR CONTRACT DOCUMENTS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE APPROPRIATE INSPECTIONS PERFORMED DURING CONSTRUCTION BY A GEOTECHNICAL PROFESSIONAL TO VERIFY THAT INSTALLED COMPONENTS CONFORM TO THE DESIGN PLANS AND SPECIFICATIONS AND MEET THE REQUIRED MATERIAL AND COMPACTION REQUIREMENTS.



MICRO-BIORETENTION AREA DIMENSIONS

MBR#	A	B	C	D	E	F	G	H	I	J
1	676.5	1.0	676.0	675.0	446	270.5	30±	30±	4.0	1
2	676.5	1.0	676.0	675.0	738	263.0	80±	30±	4.0	1
3	680.0	1.0	678.0	677.0	264	275.5	116±	35±	4.0	2

NOTE: SEE PLAN VIEW SECTIONS FOR MORE DETAIL



Professional Certification, I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. 28643 Expiration Date 3-26-19

CATOCIN SOIL CONSERVATION DISTRICT
APPROVED BY: *[Signature]*
DISTRICT MANAGER
DATE: 4/4/18

S.C.D. APPROVAL FOR SEDIMENT AND EROSION CONTROL IS CONTINGENT UPON ISSUANCE OF ALL APPLICABLE REGULATORY PERMITS.

SWM ONLY

FREDERICK COUNTY, MARYLAND
DEVELOPMENT REVIEW ENGINEERING

APPROVED:	DEVELOPMENT REVIEW CHIEF	DATE
APPROVED:	STORMWATER MANAGEMENT	DATE

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REV. #	DATE	REVISION DESCRIPTION	CONSULTANT: DATE AND INITIAL	DEV. REVIEWER: DATE AND INITIAL

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STORMWATER MANAGEMENT NOTES AND DETAILS

MYERSVILLE LIBRARY

SITUATED ON HARP PLACE, LOT 1 - PB 98, P.42
JACKSON ELECTION DISTRICT NO.16
FREDERICK COUNTY, MARYLAND

SCALE: N/A
DRAWN BY: RLP
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DATE: JAN. 2018
SHEET: C-12
PROJECT: 17905
C-12

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MYERSVILLE, MD 21773

PROJECT OWNER
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PROJECT TEAM
ARCHITECT

STRUCTURAL ENGINEER
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ARCHITECT'S STAMP

SHEET INFORMATION
KEY PLAN

REVISIONS		
REV. #:	DESCRIPTION:	DATE:

PROJECT STATUS

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ISSUE DATE: 10 APRIL 2018
SCALE:
SHEET TITLE:

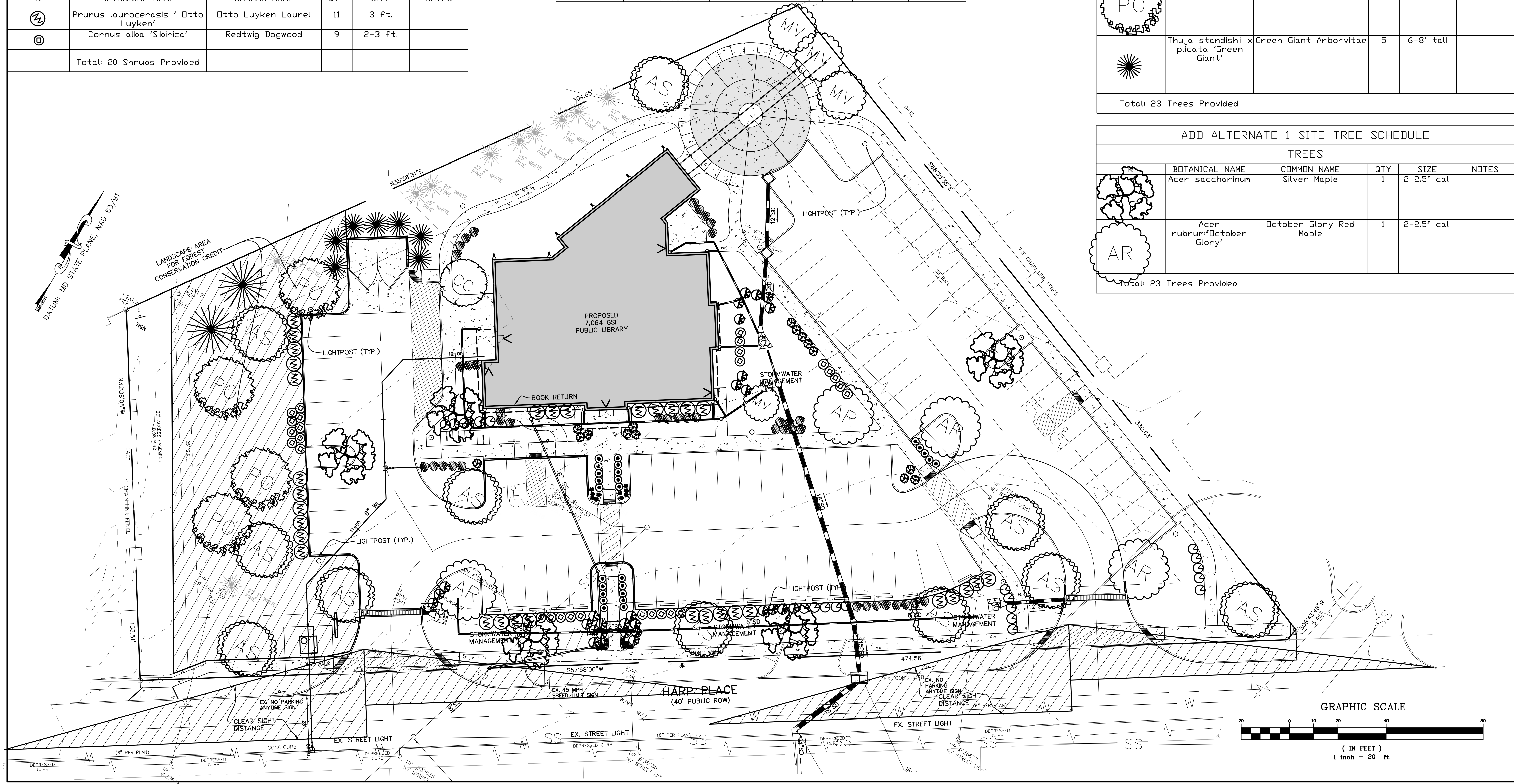
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FOREST LANDSCAPE AREA SCHEDULE					
TREES					
K	BOTANICAL NAME	COMMON NAME	QTY	SIZE	NOTES
K	Pinus strobus	White Pine	2	6-8' tall	
AS	Acer saccharum 'Legacy'	Legacy Sugar Maple	4	2-2.5' cal.	
PO	Platanus occidentalis	American Sycamore	4	2-2.5' cal.	
	Thuja standishii x plicata 'Green Giant'	Green Giant Arborvitae	2	6-8' tall	
Total: 12 Trees Provided					
SHRUBS					
K	BOTANICAL NAME	COMMON NAME	QTY	SIZE	NOTES
Ⓚ	Prunus laurocerasus 'Otto Luyken'	Otto Luyken Laurel	11	3 ft.	
Ⓚ	Cornus alba 'Sibirica'	Redtwig Dogwood	9	2-3 ft.	
Total: 20 Shrubs Provided					

SITE SHRUB SCHEDULE					
K	BOTANICAL NAME	COMMON NAME	QTY	SIZE	NOTES
Ⓚ	Prunus laurocerasus 'Otto Luyken'	Otto Luyken Laurel	22	3 ft.	
Ⓚ	Rosa rugosa 'Knockout'	Knockout Rose	40	2-3 ft.	Match color within groupings
Ⓚ	Cornus alba 'Sibirica'	Redtwig Dogwood	19	2-3 ft.	
Ⓚ	Taxus x media 'Densiflora'	Densiflora Yew	15	2-3 ft.	Full to Ground
Ⓚ	Miscanthus 'Purpureascens'	Red Leaved Miscanthus	15	3 gal.	
Ⓚ	Miscanthus sinensis 'Dixieland'	Dwarf Variegated Grass	22	3 gal.	
Ⓚ	Ilex glabra	Inkberry	20	5 gal.	
Ⓚ	Pennisetum alopecuroides	Fountain Grass	24	3 gal.	
Total: 187 Shrubs Provided					
ADD ALTERNATE #1 SITE SHRUB SCHEDULE					
K	BOTANICAL NAME	COMMON NAME	QTY	SIZE	NOTES
Ⓚ	Taxus x media 'Densiflora'	Densiflora Yew	5	2-3 ft.	Full to Ground
Ⓚ	Ilex glabra	Inkberry	5	5 gal.	
Total: 187 Shrubs Provided					

SITE TREE SCHEDULE					
TREES					
K	BOTANICAL NAME	COMMON NAME	QTY	SIZE	NOTES
	Acer saccharinum	Silver Maple	5	2-2.5' cal.	
MV	Magnolia virginiana	Sweetbay Magnolia	3	1.5-2' cal.	
AS	Acer saccharum 'Legacy'	Legacy Sugar Maple	6	2-2.5' cal.	
CC	Cercis canadensis	Eastern Redbud	1	1.5-2' cal.	
AR	Acer rubrum 'October Glory'	October Glory Red Maple	3	2-2.5' cal.	
PO	Platanus occidentalis	American Sycamore	1	2-2.5' cal.	
	Thuja standishii x plicata 'Green Giant'	Green Giant Arborvitae	5	6-8' tall	
Total: 23 Trees Provided					

ADD ALTERNATE 1 SITE TREE SCHEDULE					
TREES					
K	BOTANICAL NAME	COMMON NAME	QTY	SIZE	NOTES
	Acer saccharinum	Silver Maple	1	2-2.5' cal.	
AR	Acer rubrum 'October Glory'	October Glory Red Maple	1	2-2.5' cal.	
Total: 23 Trees Provided					



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LANDSCAPE PLAN
MYERSVILLE LIBRARY
SITUATED ON HARP PLACE, LOT 1 - PB, 98, P-42
JACKSON ELECTION DISTRICT NO. 16
FREDERICK COUNTY, MARYLAND
4/9/2018 1:42 PM

SCALE:
1" = 20'
DRAWN BY: J.L.W.
CHECKED BY: M.M.M.
DATE: JAN. 2018
SHEET: C-13
OF: 12
PROJECT: 17905
C-13

MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
8 HARP PLACE
 MYERSVILLE, MD 21773

PROJECT OWNER
FREDERICK COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS

PROJECT TEAM

ARCHITECT



NOELKER AND HULL
 ASSOCIATES, INC.
 ARCHITECTS

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STRUCTURAL ENGINEER

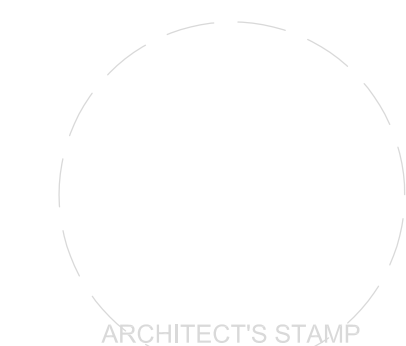
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SHEET INFORMATION

KEY PLAN

REVISIONS

REV. #:	DESCRIPTION:	DATE:

PROJECT STATUS

JOB NUMBER:	17905
ISSUE DATE:	23 MARCH 2018
SCALE:	AS INDICATED
SHEET TITLE:	

CODE ANALYSIS PLAN

SHEET NUMBER:
CA1

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CODE ANALYSIS SUMMARY

PROJECT:
 MYERSVILLE COMMUNITY LIBRARY
 8 HARP PLACE
 MYERSVILLE, MARYLAND 21773
 FREDERICK COUNTY

APPLICABLE CODES:
 2015 ICC INTERNATIONAL BUILDING CODE (IBC) WITH LOCAL AMENDMENTS
 2014 NEC NATIONAL ELECTRICAL CODE
 2015 ICC INTERNATIONAL PLUMBING CODE (IPC) WITH LOCAL AMENDMENTS
 2015 ICC INTERNATIONAL FUEL GAS CODE (IFGC) WITH LOCAL AMENDMENTS
 2015 ICC INTERNATIONAL MECHANICAL CODE
 2015 NFPA 1 FIRE CODE WITH STATE AMENDMENTS
 2015 NFPA 101 LIFE SAFETY CODE WITH STATE AMENDMENTS
 2015 ICC INTERNATIONAL ENERGY CONSERVATION CODE
 2009 ICC / ANSI A117.1-2009 EDITION
 2012 MARYLAND ACCESSIBILITY CODE SECTION COMAR 05.02.02
 2015 MARYLAND BUILDING PERFORMANCE STANDARDS COMAR

GROSS AREA:

BUILDING	AREA (GROSS SQ. FT.)
LIBRARY	6,895 SQ. FT.
TOTAL GROSS AREA =	6,895 SQ. FT.

USE GROUP MATRIX:

	2015 IBC	2015 NFPA 101
LIBRARY	A-3 ASSEMBLY OCCUPANCY	NEW ASSEMBLY OCCUPANCY ≤ 300 OCCUPANTS

CONSTRUCTION TYPE MATRIX:

	2015 IBC	2015 NFPA 101
LIBRARY	TYPE IIB FULLY SPRINKLERED (NFPA 13)	TYPE II (000) FULLY SPRINKLERED (NFPA 13)

HEIGHT ANALYSIS:

	2015 IBC	2015 NFPA 101	ACTUAL # OF STORIES / ACTUAL HEIGHT
LIBRARY	3 STORIES / 75'	2 STORIES	1 STORY / 32'-10"

MAXIMUM BUILDING AREA DETERMINATION PER IBC:

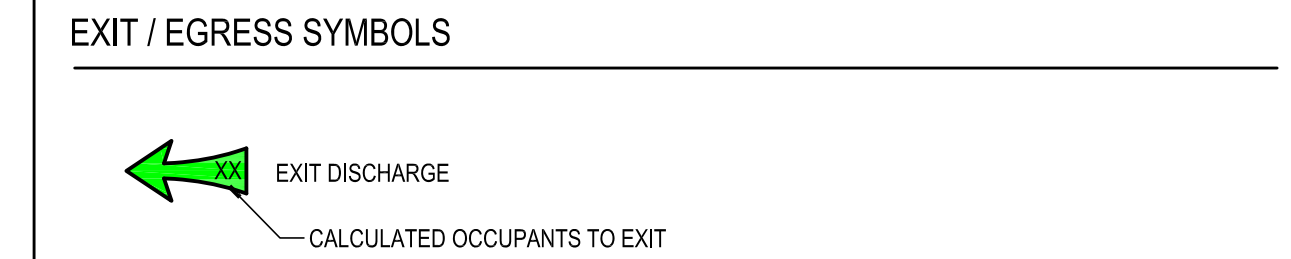
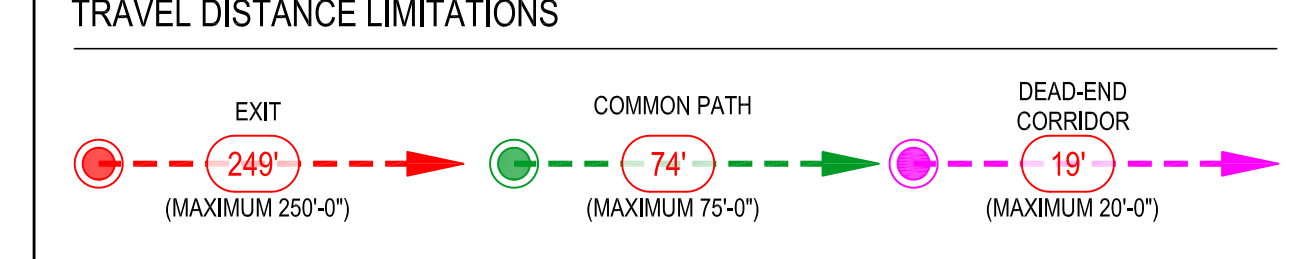
	TABULAR ALLOWANCE	FRONTAGE ALLOWANCE	SPRINKLER ALLOWANCE	ADJUSTED ALLOW. (SQ. FT.)	ACTUAL BLDG. AREA (SQ. FT.)
LIBRARY	38,000 SQ. FT.	NOT USED	NOT USED	38,000 SQ. FT.	7,072 SQ. FT.

FIRE RESISTANCE SCHEDULE:

	2015 IBC	2015 NFPA 101	PROVIDED	REMARKS
STRUCTURAL FRAME (COLUMNS, GIRDERS, TRUSSES)	0 HOUR	0 HOUR	0 HOUR	
EXTERIOR BEARING WALLS	0 HOUR	0 HOUR	0 HOUR	
INTERIOR BEARING WALLS	0 HOUR	0 HOUR	0 HOUR	
FLOOR CONSTRUCTION	0 HOUR	0 HOUR	0 HOUR	
ROOF CONSTRUCTION	0 HOUR	0 HOUR	0 HOUR	
FIRE BARRIER - EXIT PASSAGEWAY	1 HOUR w/ 60 MIN DOOR	1 HOUR w/ 20 MIN DOOR	N/A	
FIRE BARRIER - STAIR ENCLOSURES	1 HOUR w/ 60 MIN DOOR	1 HOUR w/ 60 MIN DOOR	N/A	
FIRE BARRIER - SHAFT ENCLOSURES	1 HOUR w/ 60 MIN DOOR	1 HOUR w/ 60 MIN DOOR	N/A	
FIRE BARRIER - ELEVATOR SHAFT ENCLOSURES	1 HOUR w/ 60 MIN DOOR	1 HOUR w/ 60 MIN DOOR	N/A	
FIRE PARTITIONS - CORRIDOR WALLS	0 HOUR	0 HOUR	N/A	
SMOKE BARRIERS	1 HOUR w/ 20 MIN DOOR	1 HOUR w/ 20 MIN DOOR	N/A	
FIRE BARRIERS	2 HOUR w/ 90 MIN DOOR	2 HOUR w/ 90 MIN DOOR	N/A	

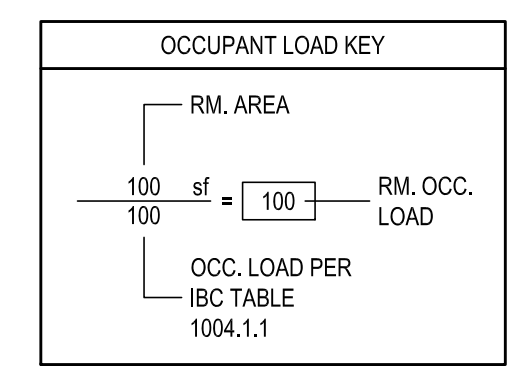
NOTE:
 FIRE RETARDANT TREATED WOOD IS PERMITTED IN ROOF CONSTRUCTION (FOR TYPE II CONSTRUCTION), INCLUDING GIRDERS, TRUSSES, FRAMING AND BLOCKING PER IBC 603.1.1.3.

CODE ANALYSIS LEGEND



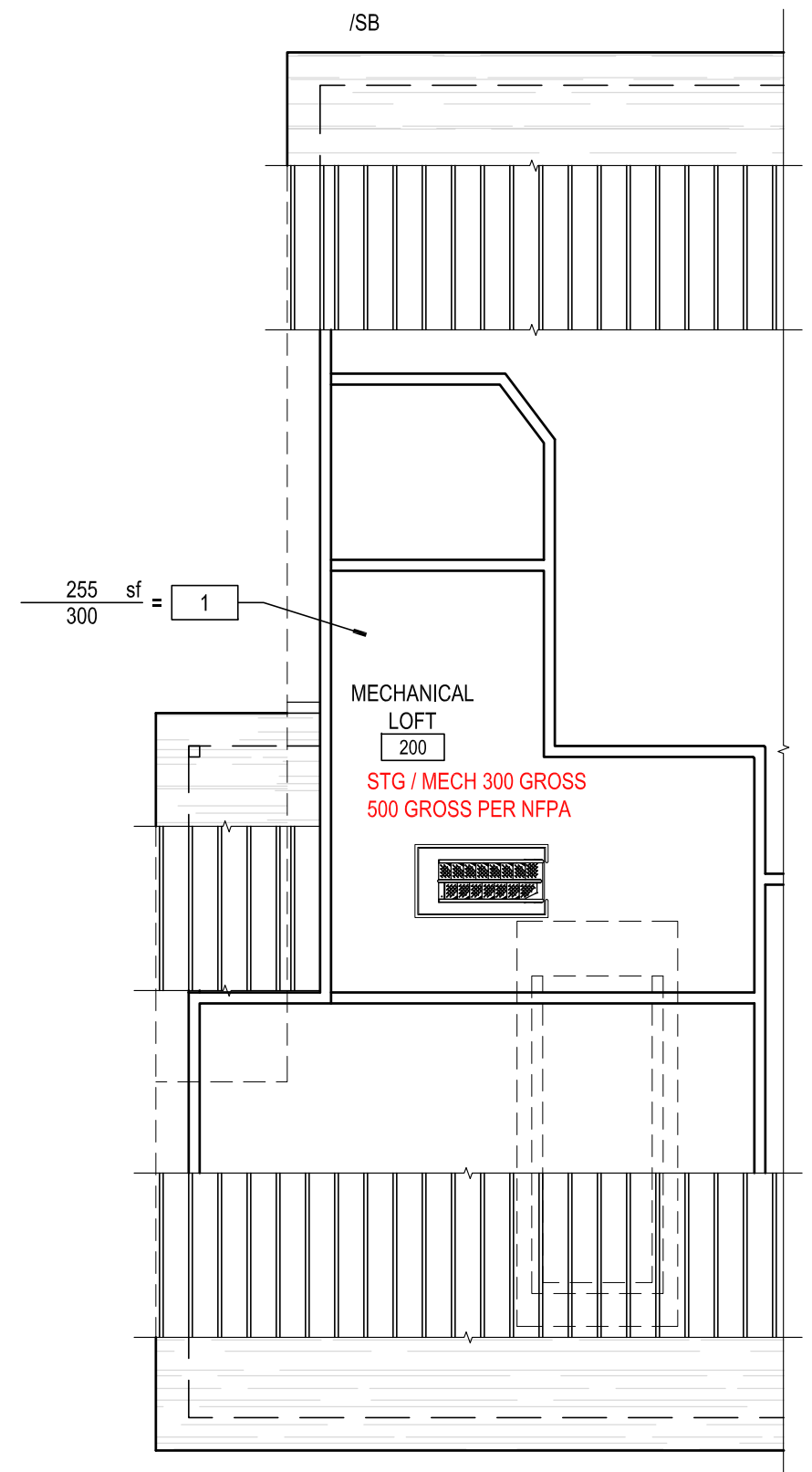
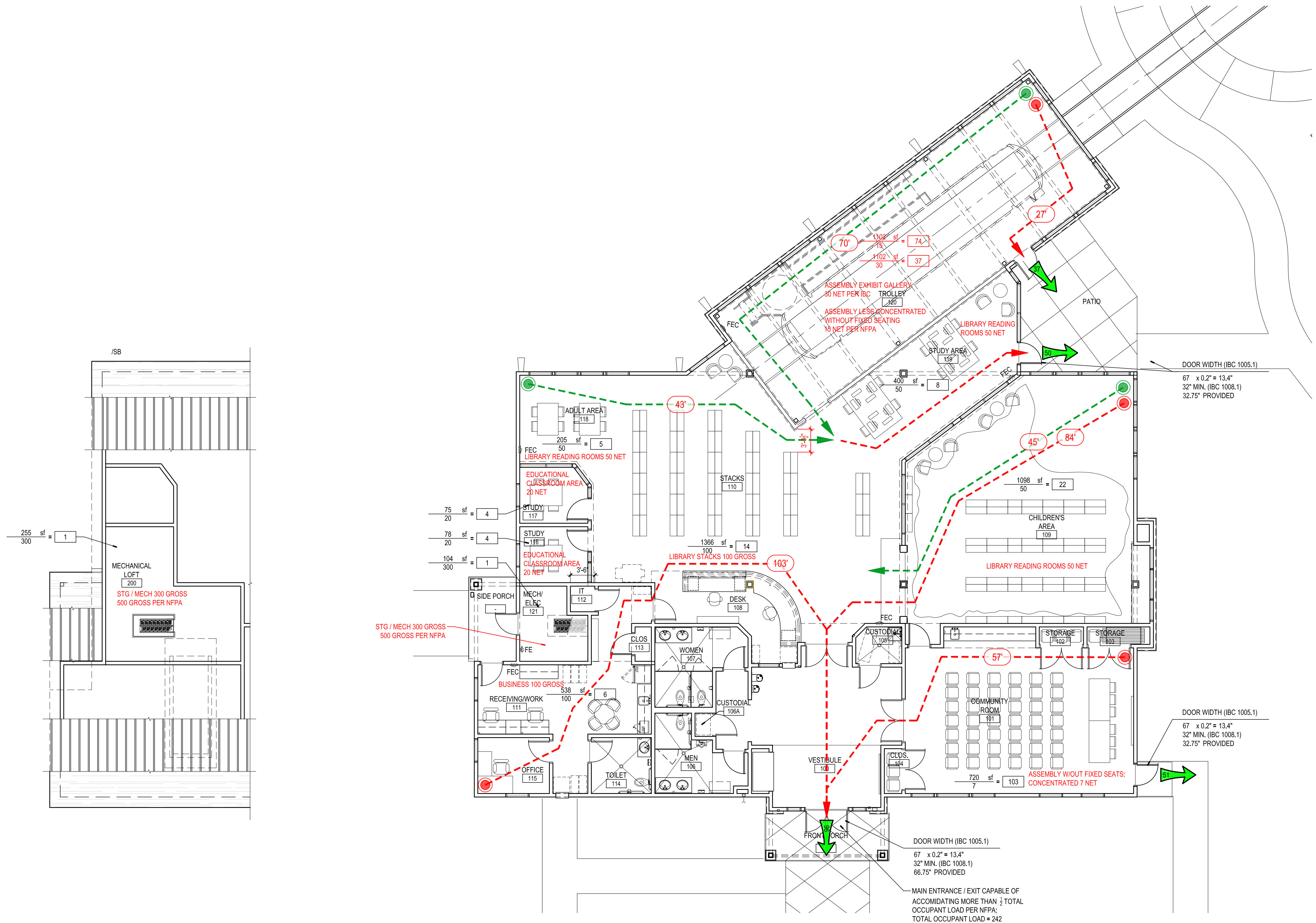
WALL RATING KEY

WALL RATING	LINE TYPE
0 HR SMOKE PARTITION	----- (D)SP
1/2 HR FIRE PARTITION	----- (1)2FP
1 HR BEARING WALL	----- (1)HBW
1 HR FIRE PARTITION	----- (1)HFP
1 HR FIRE BARRIER	----- (1)HFB
1 HR SMOKE BARRIER	----- (1)HSB
1 HR EXTERIOR WALL	----- (1)HEW
2 HR FIRE BARRIER	----- (2)HFB
2 HR FIRE WALL	----- (2)HFW
3 HR FIRE WALL	----- (3)HFW



GENERAL CODE ANALYSIS NOTES

- MAXIMUM COMMON PATH OF EGRESS LENGTH 100'-0" PER NFPA 101 18.2.5.3; MAXIMUM DEAD-END CORRIDOR LENGTH 30'-0" PER NFPA 101 18.2.5.2. MORE RESTRICTIVE LENGTHS PER IBC INDICATED IN TABLE.



6"	6"	6"	6"
INTERIOR	INTERIOR	INTERIOR	INTERIOR
5/8" GYP. BD. 6" MTL. STUDS 5/8" GYP. BD.	5/8" GYP. BD. 6" MTL. STUDS 5/8" GYP. BD.	5/8" GYP. BD. 3 5/8" MTL. STUDS 5/8" GYP. BD.	5/8" GYP. BD. 3 5/8" MTL. STUD
<ul style="list-style-type: none"> ④ SAME AS TYPE 2 w/ 3" SOUND ATTEN. BATTS ⑤ SAME AS TYPE 2 w/ 5/8" M.R. GYP. BD. @ MOISTURE SIDE ⑥ SAME AS TYPE 2 w/ 3" SOUND ATTEN. BATTS AND 5/8" M.R. GYP. BD. @ MOISTURE SIDE 	<ul style="list-style-type: none"> ④ SAME AS TYPE 3 w/ 3" SOUND ATTEN. BATTS ⑤ SAME AS TYPE 3 w/ 5/8" M.R. GYP. BD. @ MOISTURE SIDE ⑥ SAME AS TYPE 3 w/ 3" SOUND ATTEN. BATTS AND 5/8" M.R. GYP. BD. @ MOISTURE SIDE 	<ul style="list-style-type: none"> ④ SAME AS TYPE 5 w/ 3" SOUND ATTEN. BATTS ⑤ SAME AS TYPE 5 w/ 5/8" M.R. GYP. BD. @ MOISTURE SIDE ⑥ SAME AS TYPE 5 w/ 3" SOUND ATTEN. BATTS AND 5/8" M.R. GYP. BD. @ MOISTURE SIDE 	<ul style="list-style-type: none"> ④ SAME AS TYPE 4 w/ 3" SOUND ATTEN. BATTS ⑤ SAME AS TYPE 4 w/ 5/8" M.R. GYP. BD. @ MOISTURE SIDE ⑥ SAME AS TYPE 4 w/ 3" SOUND ATTEN. BATTS AND 5/8" M.R. GYP. BD. @ MOISTURE SIDE

3 INTERIOR PARTITION SCHEDULE
SCALE: NA

- GENERAL PLAN NOTES**
- CONTRACTOR AND ALL SUB-CONTRACTORS SHALL REVIEW ALL DRAWINGS AND FAMILIARIZE THEMSELVES WITH THE BUILDING CONDITIONS, DETAILS AND ALL FACTORS WHICH WILL AFFECT THE WORK TO BE ACCOMPLISHED.
 - ANY DISCREPANCIES ON THE DRAWINGS NOTED BY THE CONTRACTOR SHALL BE BROUGHT TO THE OWNER/ARCHITECT'S ATTENTION FOR RESOLUTION PRIOR TO BID SUBMISSION.
 - ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS APPLICABLE TO THE PROJECT.
 - REFER TO AND COORDINATE WITH CIVIL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL WORK REQUIRED BUT NOT INDICATED ON THIS DRAWING.
 - WHERE REQUIRED, SLOPE FLOORS TO DRAIN(S) MINIMUM 1/8" PER FOOT FOR POSITIVE DRAINAGE AND COORDINATE ALL FLOOR DRAINS WITH PLUMBING DRAWINGS.

PROJECT INFORMATION

PROJECT TITLE
MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
**8 HARP PLACE
MYERSVILLE, MD 21773**

PROJECT OWNER
**FREDERICK COUNTY,
MARYLAND
DEPARTMENT OF PUBLIC
WORKS**

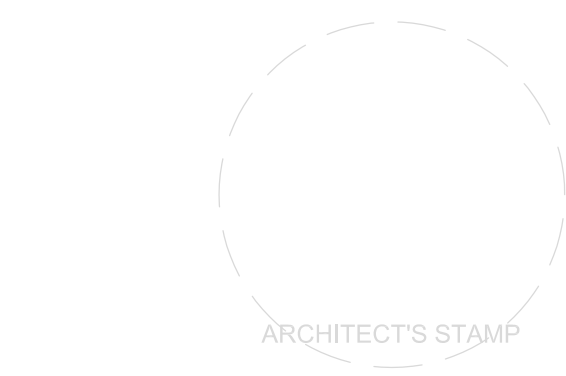
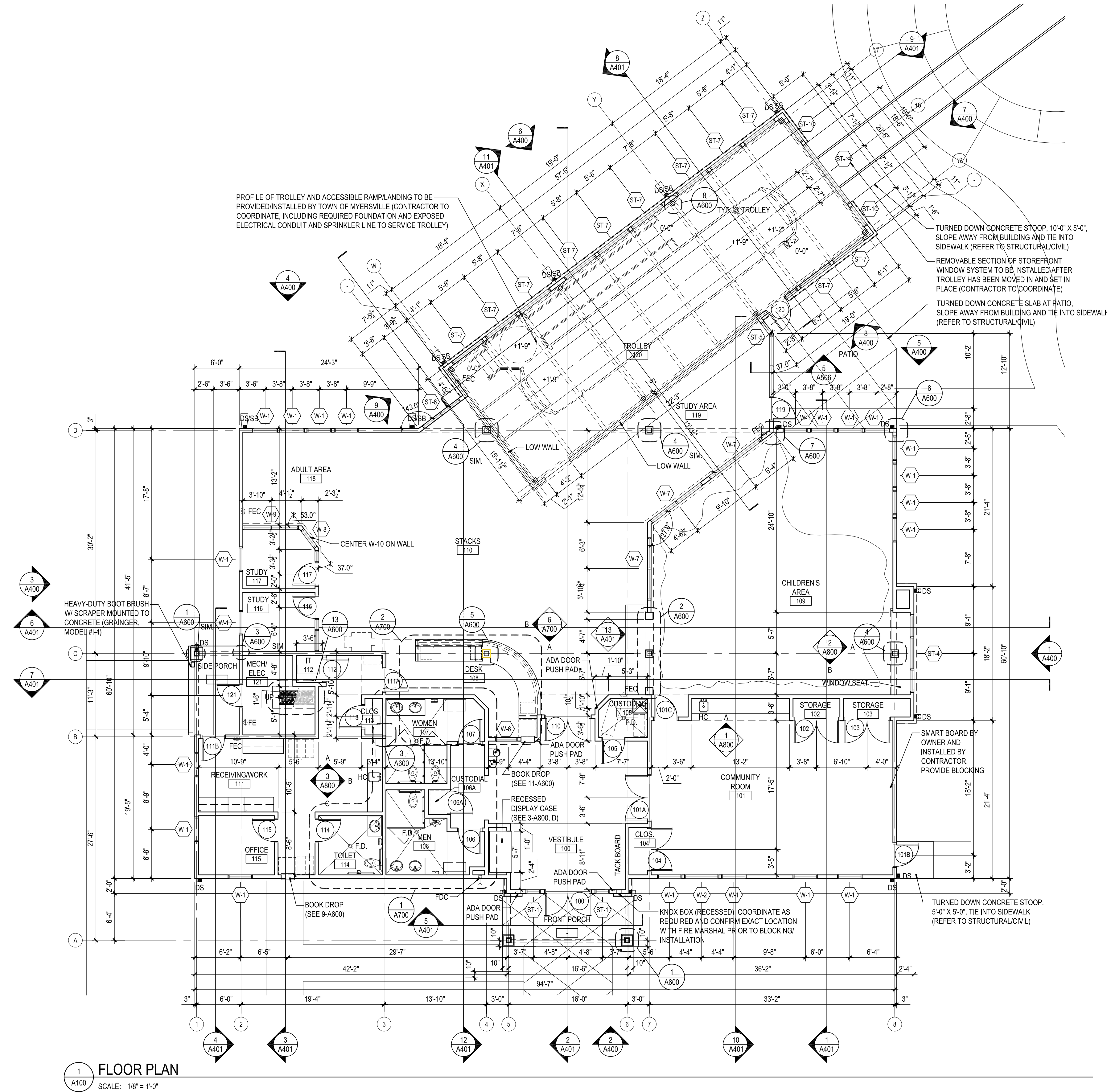
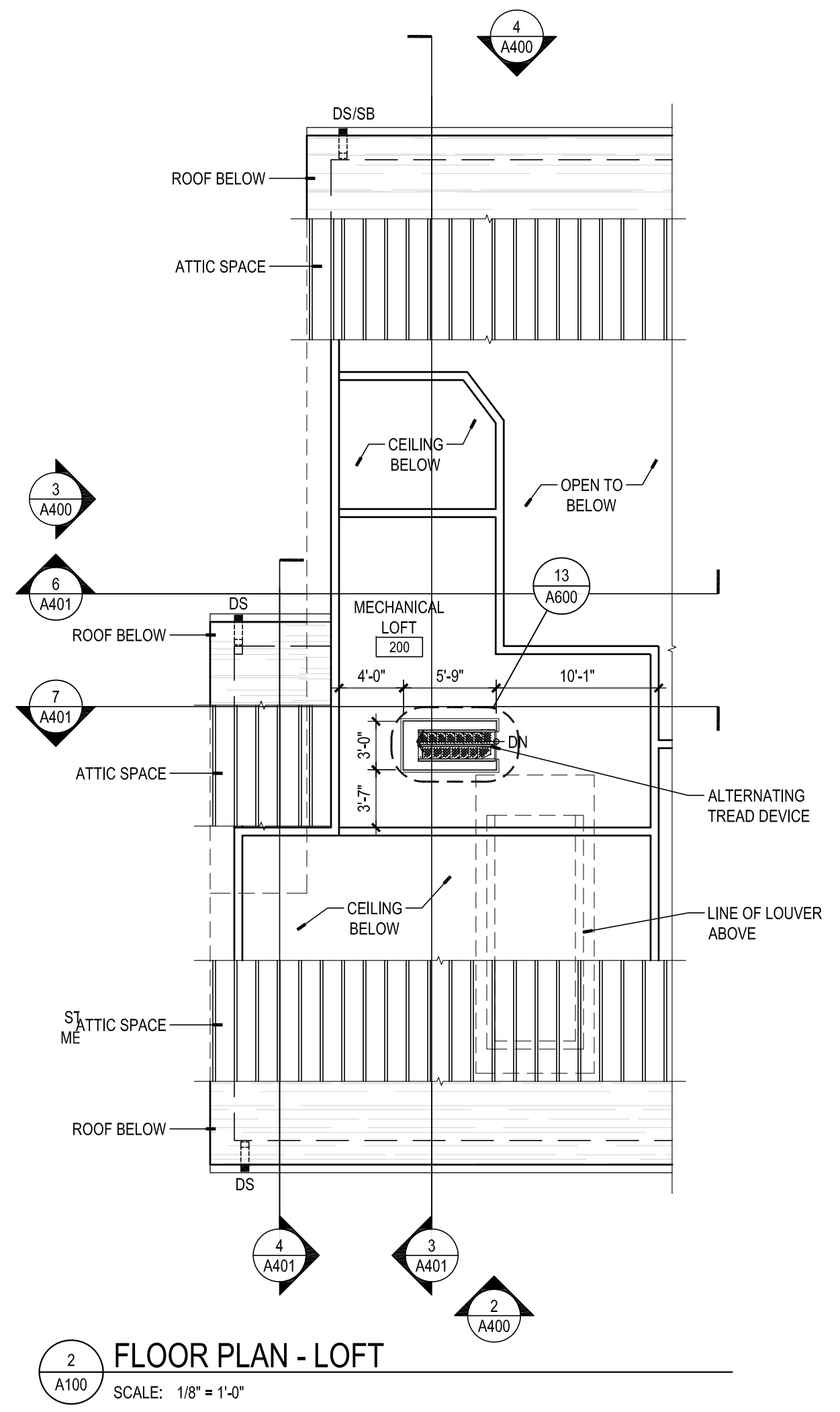
PROJECT TEAM

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SHEET INFORMATION
KEY PLAN

REVISIONS

REV. #:	DESCRIPTION:	DATE:

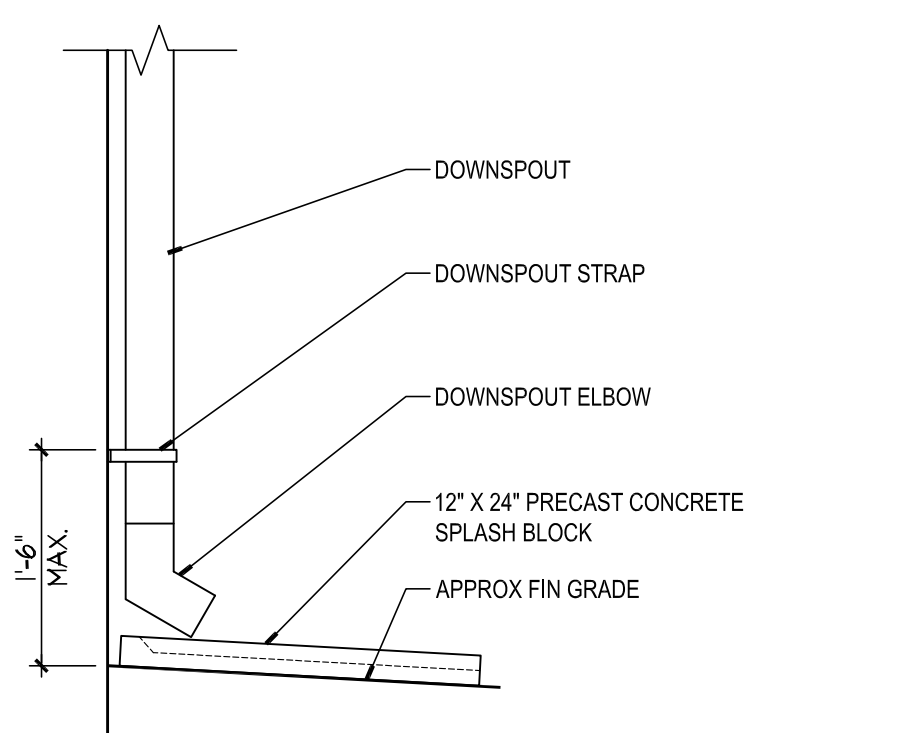
PROJECT STATUS

JOB NUMBER: **17905**
ISSUE DATE: **10 APRIL 2018**
SCALE: **AS INDICATED**
SHEET TITLE:

FLOOR PLANS

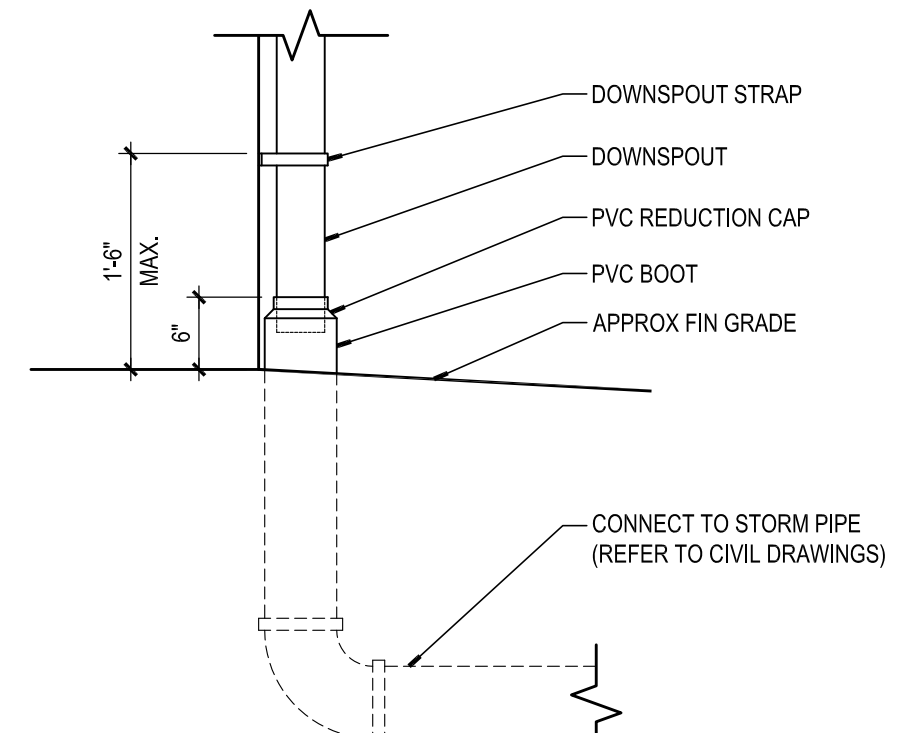
SHEET NUMBER:
A100

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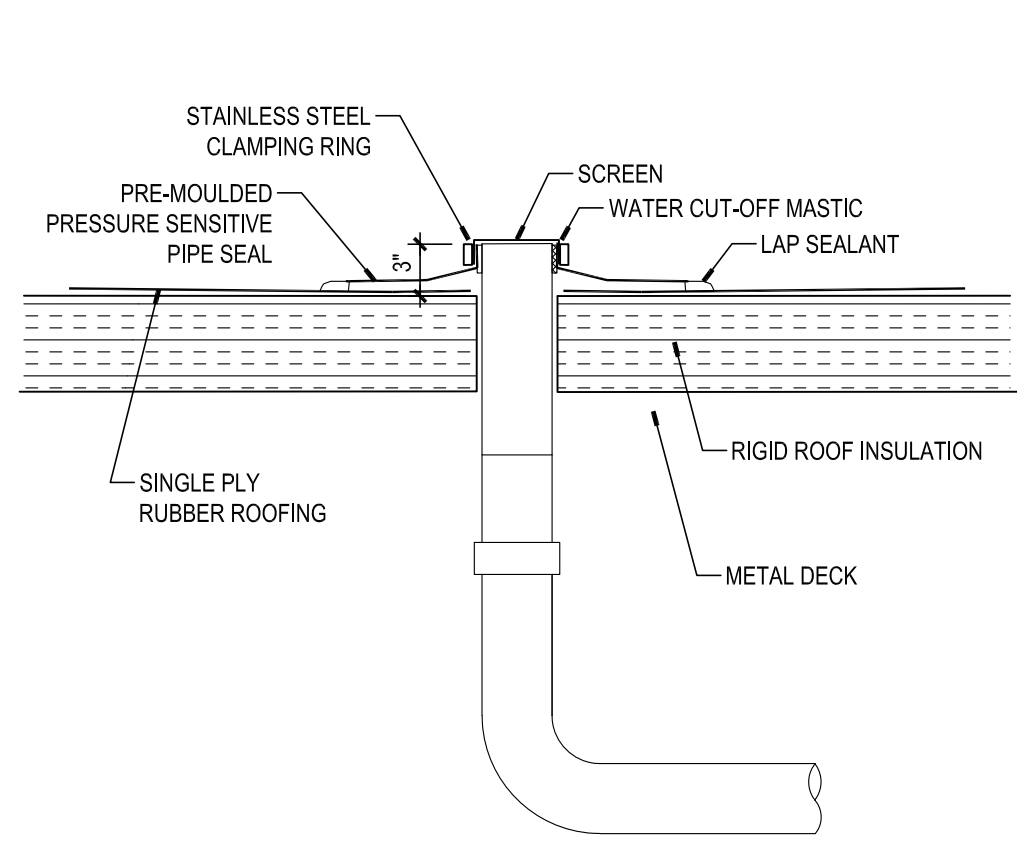
NOTE: REFER TO PLANS AND CIVIL DRAWINGS FOR SPLASH BLOCK VS. DOWNSPOUT BOOT LOCATIONS

11 DOWNSPOUT WITH SPLASH BLOCK (SB) DETAIL
SCALE: 3/4" = 1'-0"

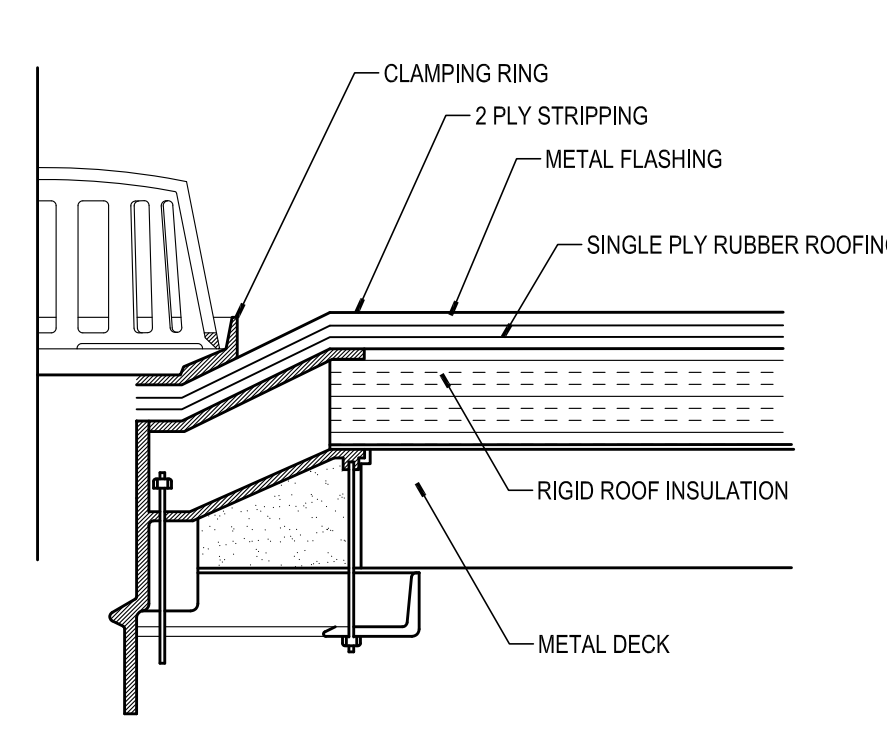


NOTE: REFER TO PLANS AND CIVIL DRAWINGS FOR SPLASH BLOCK VS. DOWNSPOUT BOOT LOCATIONS

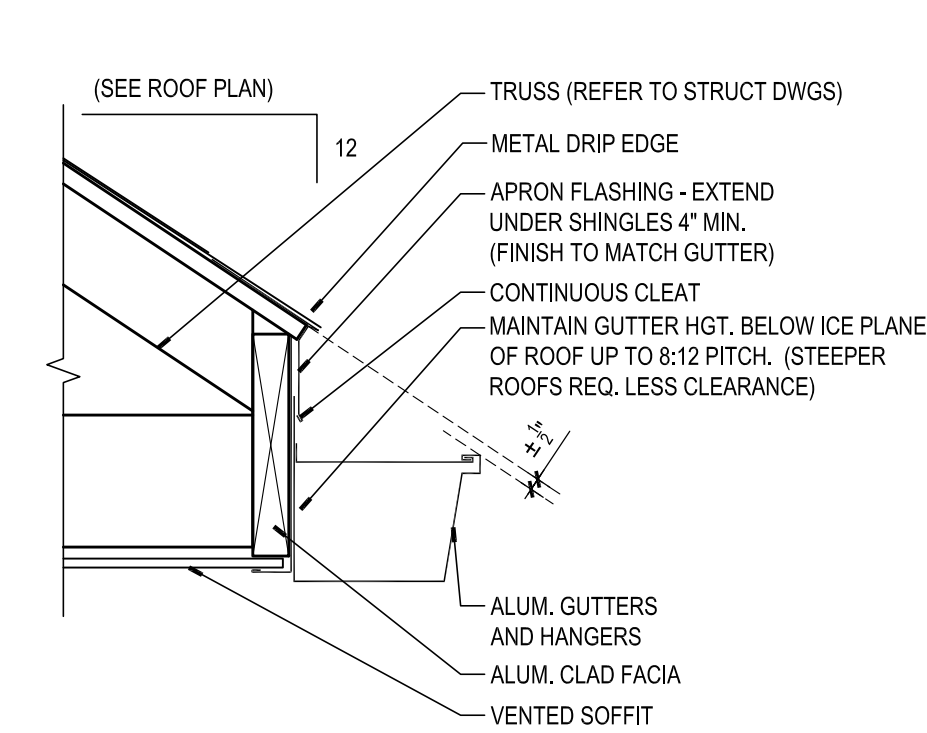
10 DOWNSPOUT BOOT DETAIL
SCALE: 3/4" = 1'-0"



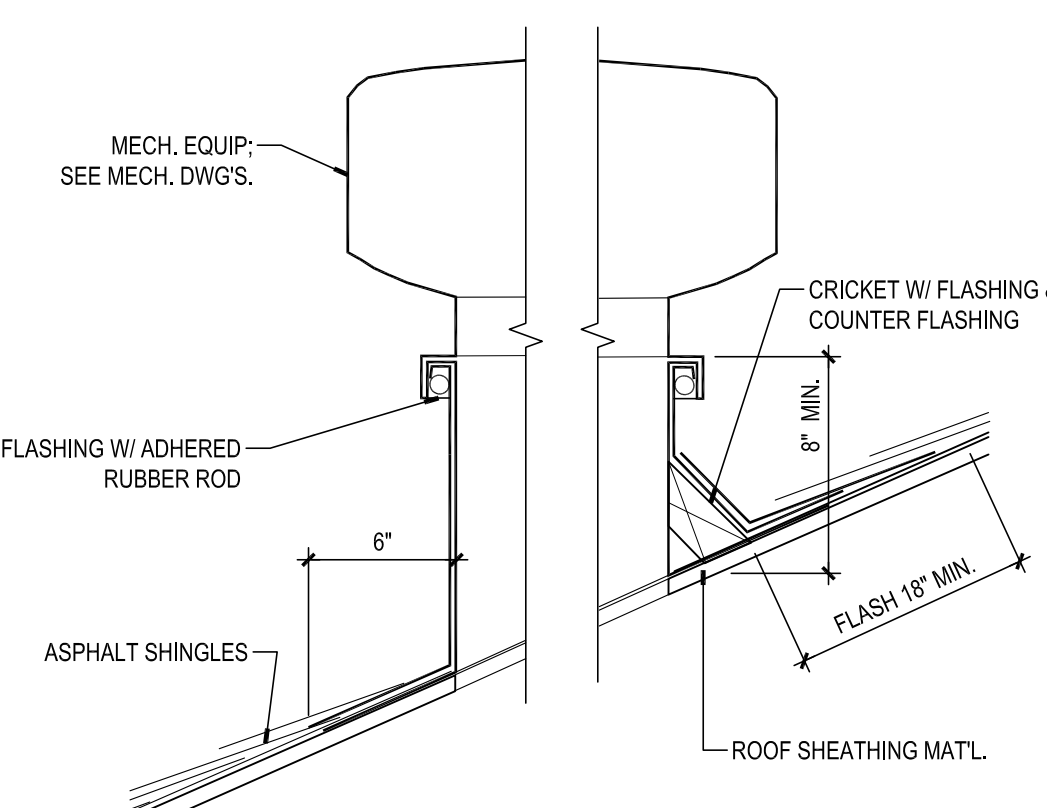
9 DETAIL - OVERFLOW ROOF DRAIN (O.R.D.)
SCALE: 1 1/2" = 1'-0"



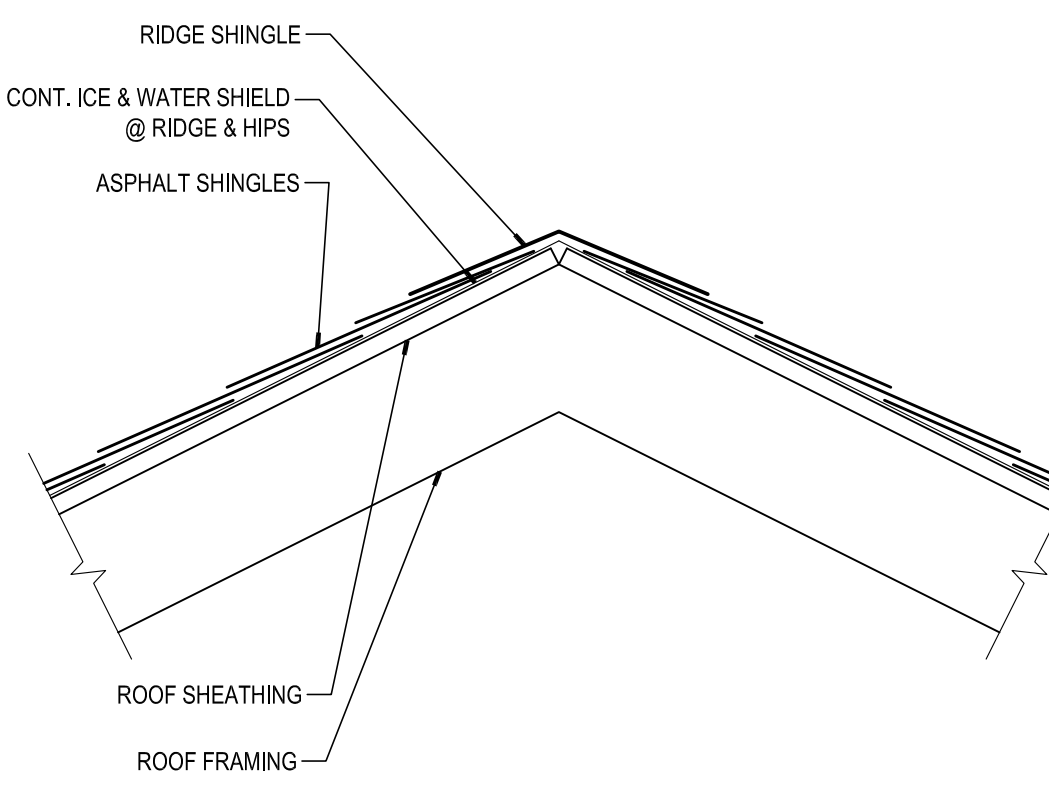
8 DETAIL - TYPICAL ROOF DRAIN (R.D.)
SCALE: 1 1/2" = 1'-0"



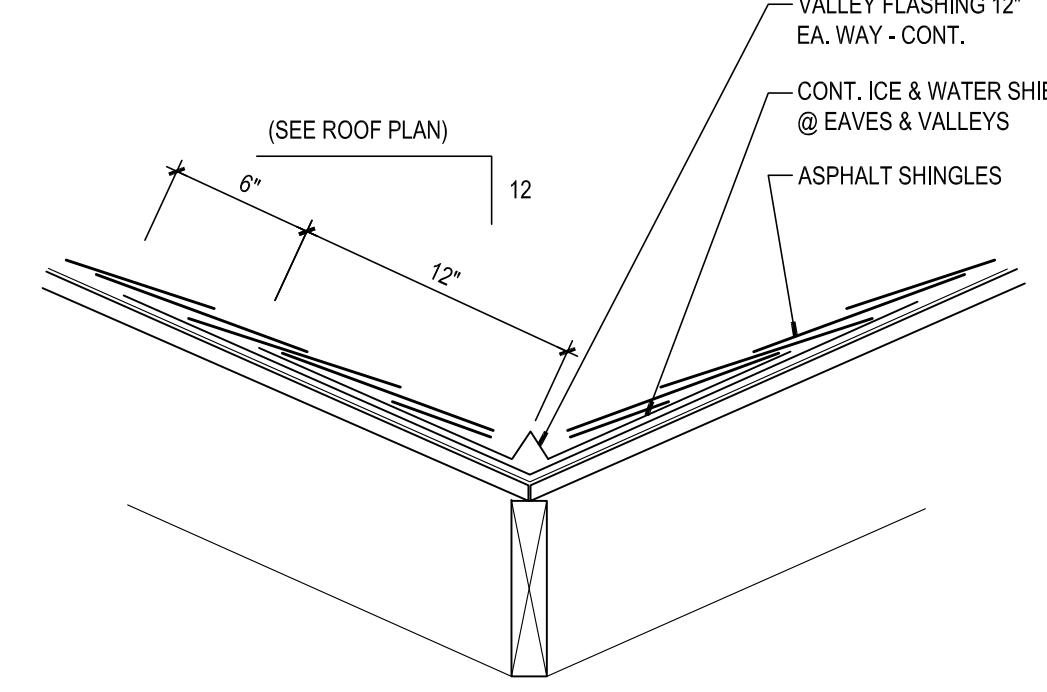
7 DETAIL - GUTTER & FASCIA
SCALE: 1 1/2" = 1'-0"



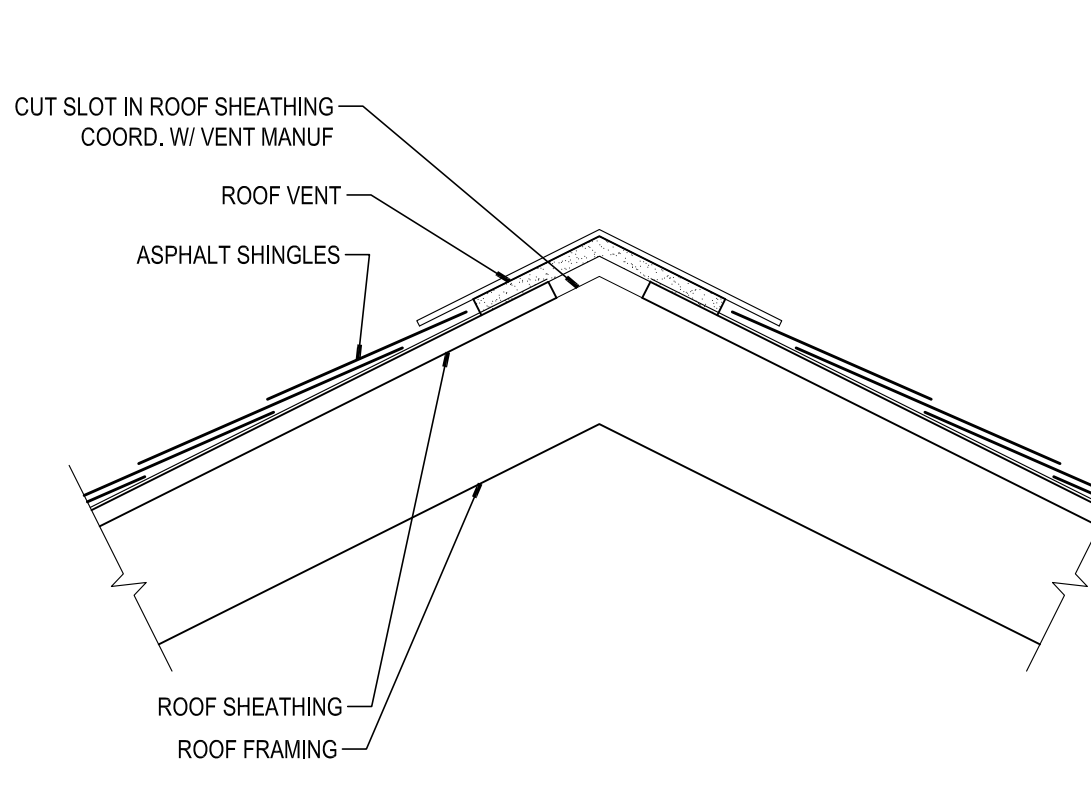
6 DETAIL - ROOF EQUIP. PENETRATION
SCALE: 1 1/2" = 1'-0"



5 DETAIL - TYPICAL RIDGE & HIP FLASHING
SCALE: 1 1/2" = 1'-0"



4 DETAIL - TYPICAL VALLEY FLASHING
SCALE: 1 1/2" = 1'-0"

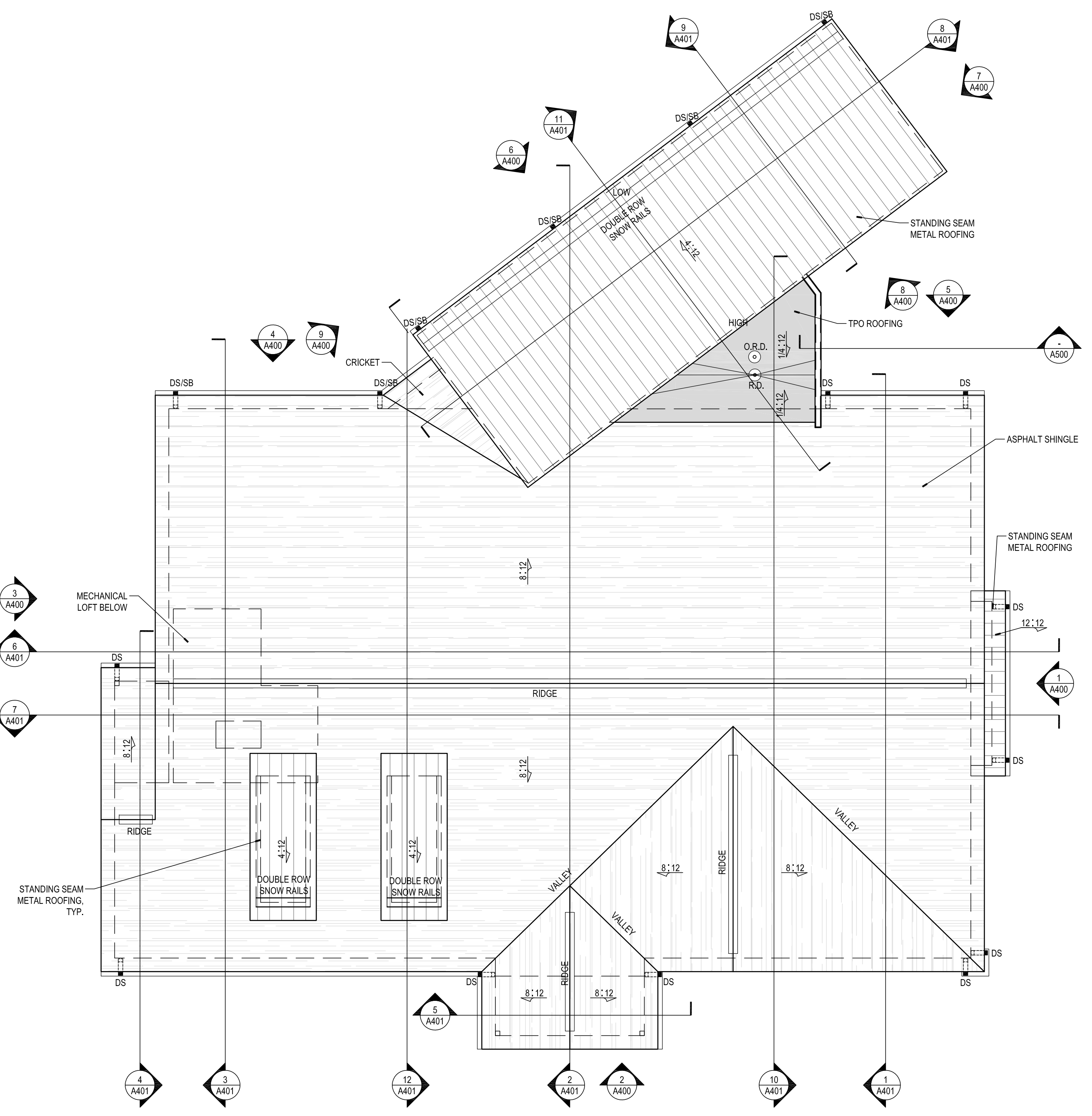


3 DETAIL - TYPICAL RIDGE & VENT
SCALE: 1 1/2" = 1'-0"

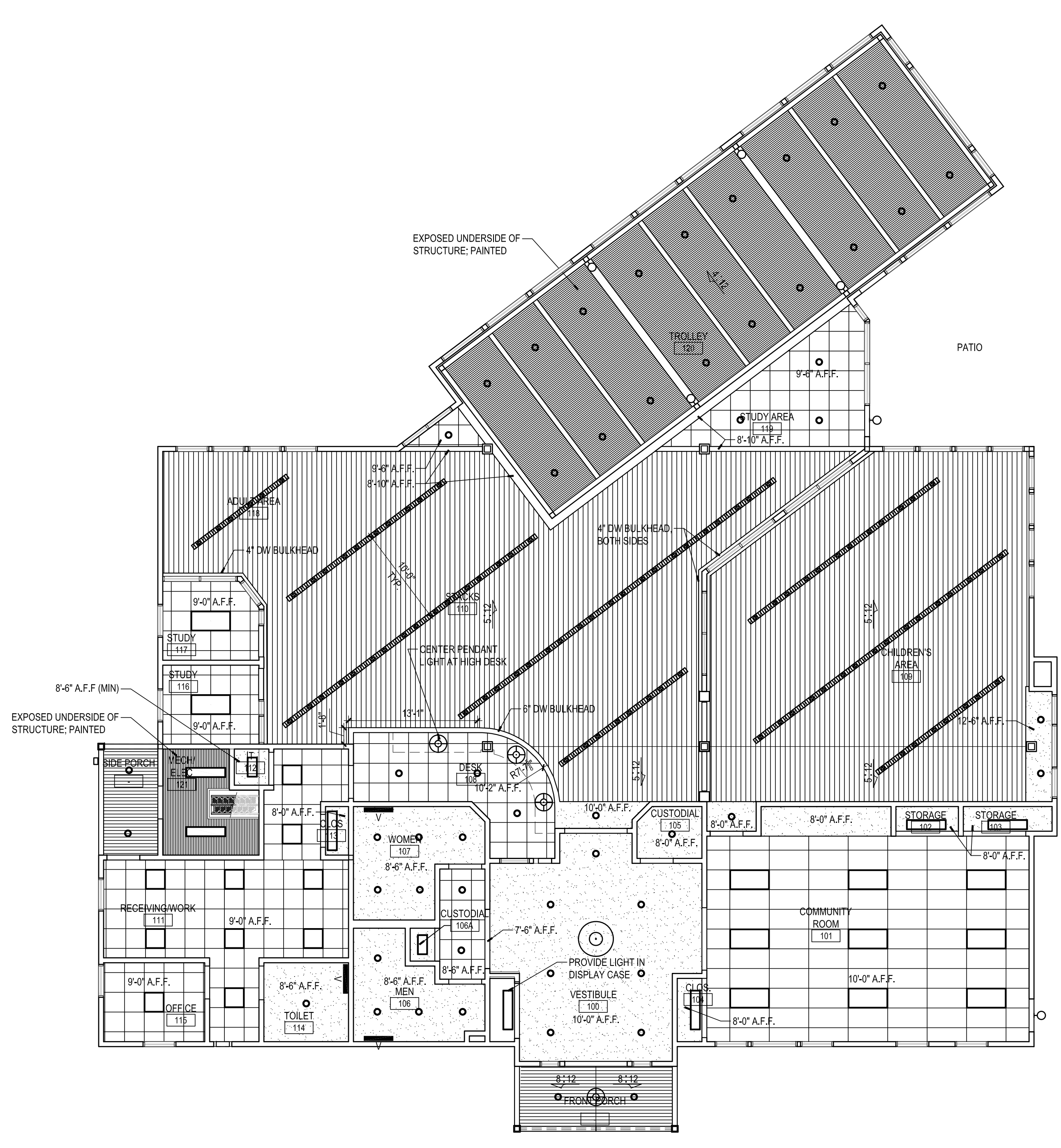
LIGHTING LEGEND		MECHANICAL LEGEND	
[Symbol]	2' x 4' LIGHT FIXTURE	[Symbol]	ACOUSTICAL CEILING PANELS IN 2' x 2' CEILING GRID
[Symbol]	1' x 4' LIGHT FIXTURE	[Symbol]	LINEAR CEILING
[Symbol]	2' x 2' LIGHT FIXTURE	[Symbol]	GYPSUM BOARD
[Symbol]	RECESSED LIGHT FIXTURE WITH CYBEALL TRIM	[Symbol]	SUPPLY DIFFUSER
[Symbol]	WALL WASHERS	[Symbol]	RETURN GRILLE
[Symbol]	SURFACE MOUNTED LIGHT FIXTURE	[Symbol]	EXHAUST GRILLE
[Symbol]	PENDANT LIGHT FIXTURE	[Symbol]	RADIANT CEILING PANEL
[Symbol]	WALL MOUNTED LIGHT FIXTURE	[Symbol]	ACCESS PANEL
[Symbol]	TRACK LIGHTING		
[Symbol]	UNDER CABINET LIGHT FIXTURE		
[Symbol]	RECESSED SPEAKER		
[Symbol]	EMERGENCY 2 HEAD BATTERY PACK		
[Symbol]	EMERGENCY EXIT LIGHT FIXTURE		
[Symbol]	LINEAR PENDANT LIGHT FIXTURE		
[Symbol]	VANITY LIGHT FIXTURE		
[Symbol]	LINEAR RECESSED SLOT LIGHT FIXTURE		

CEILING GENERAL NOTES:

- CENTER LIGHT FIXTURE, MECHANICAL DIFFUSERS, SPRINKLERS HEADS, ETC. IN ACOUSTICAL CEILING PANELS AND BULKHEADS UNLESS NOTED OTHERWISE.
- ALL WOOD USED IN TYPE II CONSTRUCTION, INCLUDING, BUT NOT LIMITED TO, ROOF GIRDERS, TRUSSES, FRAMING AND BLOCKING, SHALL BE FIRE-RETARDANT TREATED (FRT).



2 ROOF PLAN
SCALE: 1/8" = 1'-0"



1 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

PROJECT INFORMATION

PROJECT TITLE
MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
8 HARP PLACE
MYERSVILLE, MD 21773

PROJECT OWNER
FREDERICK COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

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SHEET INFORMATION

KEY PLAN

REVISIONS		
REV. #	DESCRIPTION	DATE

PROJECT STATUS

JOB NUMBER:	17905
ISSUE DATE:	10 APRIL 2018
SCALE:	AS INDICATED
SHEET TITLE:	

REFLECTED CEILING PLAN, ROOF PLAN AND DETAILS

SHEET NUMBER:
A200

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MYERSVILLE COMMUNITY LIBRARY

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8 HARP PLACE
MYERSVILLE, MD 21773

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SHEET INFORMATION
KEY PLAN

REVISIONS

REV. #:	DESCRIPTION:	DATE:

PROJECT STATUS

JOB NUMBER:	17905
ISSUE DATE:	10 APRIL 2018
SCALE:	AS INDICATED
SHEET TITLE:	

DOOR SCHEDULE

SHEET NUMBER:

A300

HARDWARE SCHEDULE

HW-1	2 EXIT DEVICES W/ REMOVABLE CENTER MULLION + STRIKES 2 EXTERIOR LEVER TRIM SETS, 1 WITH CYLINDER 2 CONTINUOUS GEARED HINGES 2 AUTOMATIC DOOR OPERATORS (ENTER/EXIT) WEATHERSTRIPPING/THRESHOLD	HW-5	2 EXIT DEVICES W/ REMOVABLE CENTER MULLION + STRIKES 2 EXTERIOR LEVER TRIM SETS, 1 WITH CYLINDER 5 HINGES 2 AUTOMATIC DOOR OPERATORS (ENTER/EXIT)
HW-2	1 RIM EXIT DEVICE 2 EXTERIOR LEVER TRIM SETS, 1 WITH CYLINDER 1 CONTINUOUS GEARED HINGE 1 CLOSER WEATHERSTRIPPING/THRESHOLD	HW-5A	2 EXIT DEVICES W/ REMOVABLE CENTER MULLION + STRIKES 2 EXTERIOR LEVER TRIM SETS, 1 WITH CYLINDER 6 HINGES 2 CLOSERS W/ HOLD-OPENS
HW-3	1 ENTRANCE LEVER LOCKSET 1 ELECTRIC STRIKE 1 CONTINUOUS GEARED HINGE 1 CLOSER WEATHERSTRIPPING/THRESHOLD CARD READER ROUGH-IN 1 PEEP HOLE	HW-6	1 ENTRANCE LEVER LOCKSET (SHELTER IN PLACE), ACTIVE LEAF 6 HINGES 1 SET CONCEALED FLUSH BOLTS AND STRIKES, INACTIVE LEAF
HW-4	1 ENTRANCE LEVER LOCKSET (SHELTER IN PLACE) 1 CONTINUOUS GEARED HINGE 1 CLOSER WEATHERSTRIPPING/THRESHOLD	HW-7	1 ENTRANCE LEVER LOCKSET (SHELTER IN PLACE) 3 HINGES HW-8 1 PUSH/PULL SET 3 HINGES 1 CLOSER 1 AUXILIARY DEADLOCK
		HW-9	1 PRIVACY LEVER LOCKSET 3 HINGES 1 CLOSER
		HW-10	1 ENTRANCE LEVER LOCKSET (SHELTER IN PLACE) 3 HINGES
		HW-11	1 PASSAGE LEVER LATCHSET 3 HINGES

GLAZING TYPE KEY

TAG NO.	DESCRIPTION
1	INSULATED GLASS - TEMPERED
2	INSULATED GLASS - ANNEALED
3	CLEAR TEMPERED GLASS
4	CLEAR ANNEALED GLASS
5	FIRE GLASS
6	DECORATIVE LAMINATED ACRYLIC

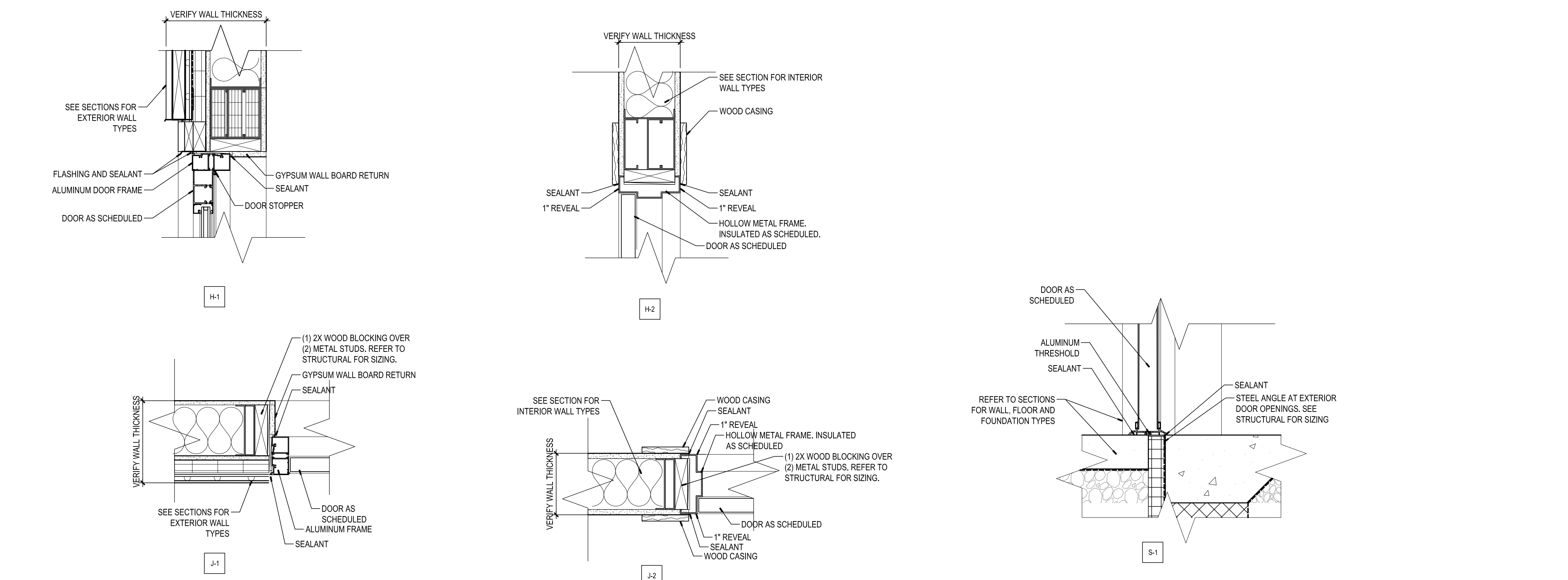
DOOR SCHEDULE

MARK	TYPE	SIZE	DOOR DATA				HARDWARE	FRAME DATA				REMARKS
			MATL	GLAZING	RATING	TYPE		MATL	HEAD	JAMB	SILL	
100	C	(2) 3'-0" x 7'-0"	ALUM	G-1	-	SET # 1	F-1	ALUM	-	-	-	
101A	B	(2) 3'-0" x 7'-0"	WD	G-3	-	SET # 5A	F-1	HM	-	-	-	
101B	A	3'-0" x 7'-0"	IHM	-	-	SET # 2	F-1	IHM	-	-	-	
101C	B	3'-0" x 7'-0"	WD	G-3	-	SET # 7	F-1	HM	-	-	-	
102	A	(2) 3'-0" x 7'-0"	WD	-	-	SET # 6	F-1	HM	-	-	-	
103	A	(2) 3'-0" x 7'-0"	WD	-	-	SET # 6	F-1	HM	-	-	-	
104	A	(2) 2'-10" x 7'-0"	WD	-	-	SET # 6	F-1	HM	-	-	-	
105	A	3'-0" x 7'-0"	WD	-	-	SET # 7	F-1	HM	-	-	-	
106	A	3'-0" x 7'-0"	WD	-	-	SET # 8	F-1	HM	-	-	-	
106A	A	3'-0" x 7'-0"	WD	-	-	SET # 8	F-1	HM	-	-	-	
107	A	3'-0" x 7'-0"	WD	-	-	SET # 8	F-1	HM	-	-	-	
110	C	(2) 3'-0" x 7'-0"	WD	G-3	-	SET # 5	F-2	HM	-	-	-	
111A	B	3'-0" x 7'-0"	WD	G-3	-	SET # 7	F-1	HM	-	-	-	
111B	A	3'-0" x 7'-0"	IHM	-	-	SET # 3	F-1	IHM	-	-	-	PROVIDE ELECTRIC STRIKE FOR CARD READER
112	D	3'-0" x 7'-0"	HM	-	-	SET # 7	F-1	HM	-	-	-	
113	A	3'-0" x 7'-0"	WD	-	-	SET # 7	F-1	HM	-	-	-	
114	A	3'-0" x 7'-0"	WD	-	-	SET # 9	F-1	HM	-	-	-	
115	B	3'-0" x 7'-0"	WD	G-3	-	SET # 10	F-1	HM	-	-	-	
116	C	3'-0" x 7'-0"	WD	G-3	-	SET # 11	F-3	HM	-	-	-	
117	C	3'-0" x 7'-0"	WD	G-3	-	SET # 11	F-4	HM	-	-	-	
119	C	3'-0" x 7'-0"	ALUM	G-1	-	SET # 2	F-5	ALUM	-	-	-	
120	C	3'-0" x 7'-0"	ALUM	G-1	-	SET # 2	F-6	ALUM	-	-	-	
121	A	3'-0" x 7'-0"	IHM	-	-	SET # 4	F-1	IHM	-	-	-	

ABBREVIATIONS				NOTES	
ACW	ALUMINUM CLAD WOOD	HM	HOLLOW METAL	1.	DOOR STAIN FINISH TO BE DETERMINED
ALUM	ALUMINUM	IHM	INSULATED HOLLOW METAL	2.	
MWF	MOLDED WOOD FIBER	WD	WOOD		

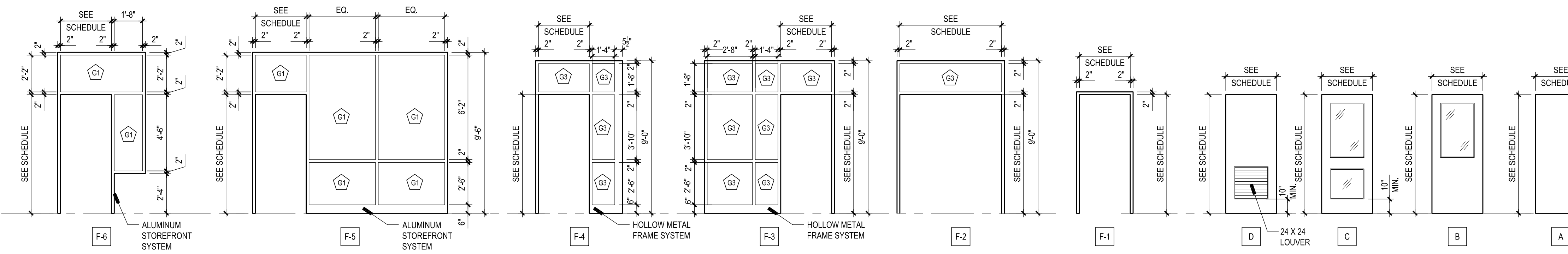
DOOR SCHEDULE

SCALE: NONE



JAMB, HEAD AND SILL DETAILS

SCALE: 1 1/2" = 1'-0"



FRAME TYPES

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

DOOR TYPES

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

MYERSVILLE COMMUNITY LIBRARY

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8 HARP PLACE
MYERSVILLE, MD 21773

PROJECT OWNER
FREDERICK COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

PROJECT TEAM

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STRUCTURAL ENGINEER

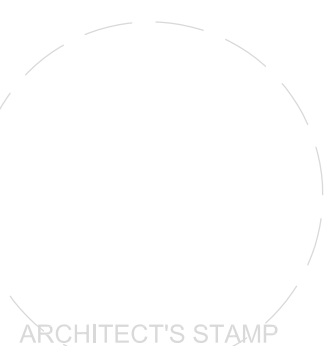
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125 SOUTH CARROLL STREET | FREDERICK, MD | 21701
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SHEET INFORMATION

KEY PLAN

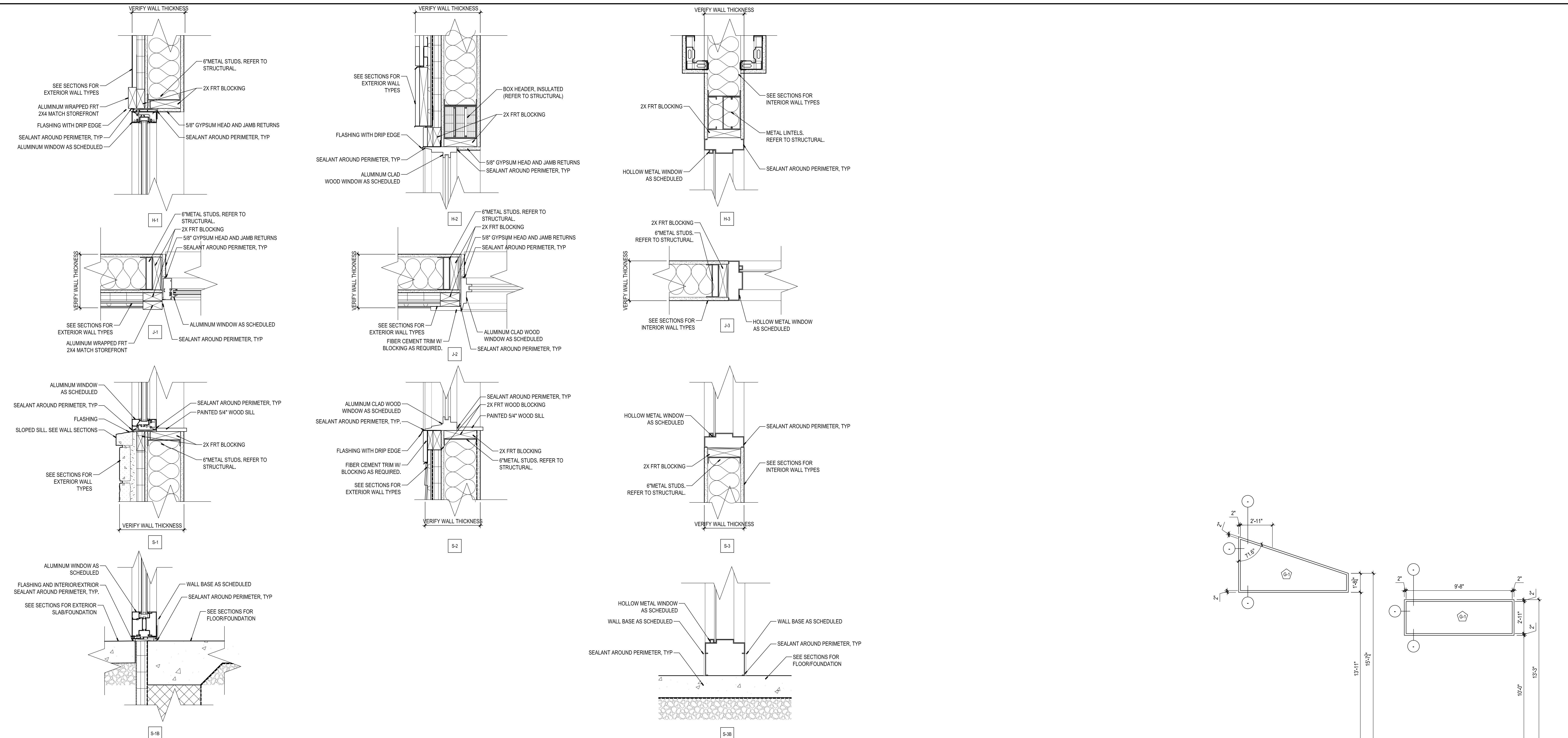
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PROJECT STATUS

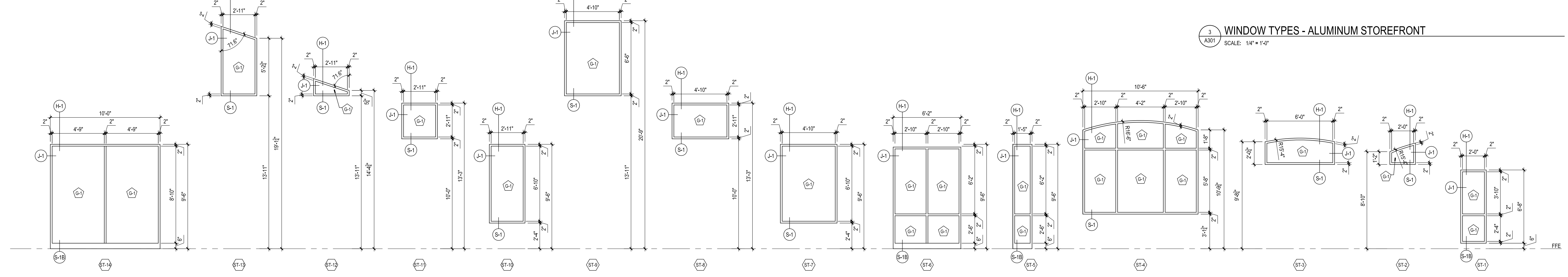
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ISSUE DATE:	10 APRIL 2018
SCALE:	AS INDICATED
SHEET TITLE:	

WINDOW TYPES AND DETAILS

SHEET NUMBER:
A301

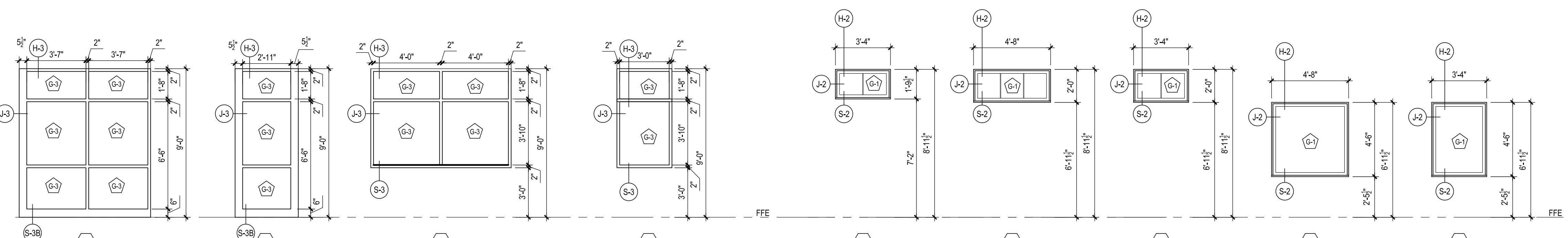


4 WINDOW DETAILS
SCALE: 1 1/2" = 1'-0"



3 WINDOW TYPES - ALUMINUM STOREFRONT
SCALE: 1/4" = 1'-0"

3 WINDOW TYPES - ALUMINUM STOREFRONT
SCALE: 1/4" = 1'-0"



2 WINDOW TYPES - HOLLOW METAL FRAME
SCALE: 1/4" = 1'-0"

1 WINDOW TYPES - ALUMINUM CLAD FIXED
SCALE: 1/4" = 1'-0"

TAG NO.	DESCRIPTION
IG-T	INSULATED GLASS - TEMPERED
IG-A	INSULATED GLASS - ANNEALED
CT	CLEAR TEMPERED GLASS
CA	CLEAR ANNEALED GLASS
FG	FIRE GLASS
DLA	DECORATIVE LAMINATED ACRYLIC

GENERAL NOTES:
1) AS AN ACCESSORY TO THE SPECIFIED AIRWEATHER BARRIER SYSTEM, CONTRACTOR SHALL USE AND INSTALL THE SELECTED MANUFACTURER'S COMPATIBLE FLEXIBLE FLASHING MEMBRANE (SELF-ADHERING AND SELF-SEALING) AT ALL CRITICAL LOCATIONS, INCLUDING ALL SILLS, HEADS, AND JAMBS OF ALL OPENINGS FOR A COMPLETE AIR-BARRIER ASSEMBLY.

MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
8 HARP PLACE
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PROJECT OWNER
FREDERICK COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

PROJECT TEAM

ARCHITECT



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NOELKERHULL.COM
PA | MD | VA

STRUCTURAL ENGINEER

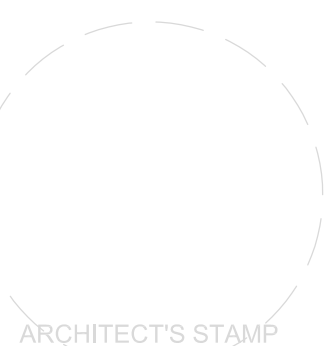
ABEL CONSULTING ENGINEERS
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SHEET INFORMATION

KEY PLAN

REVISIONS

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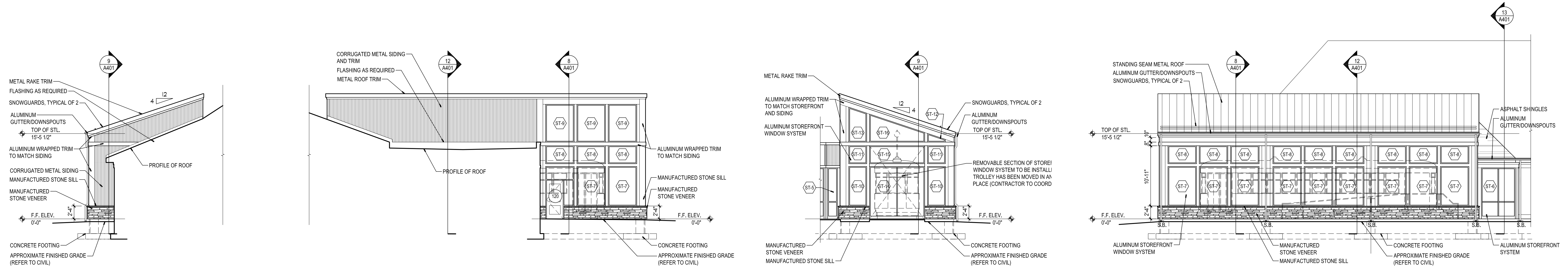
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ISSUE DATE:	10 APRIL 2018
SCALE:	AS INDICATED
SHEET TITLE:	

EXTERIOR ELEVATIONS

SHEET NUMBER:

A400

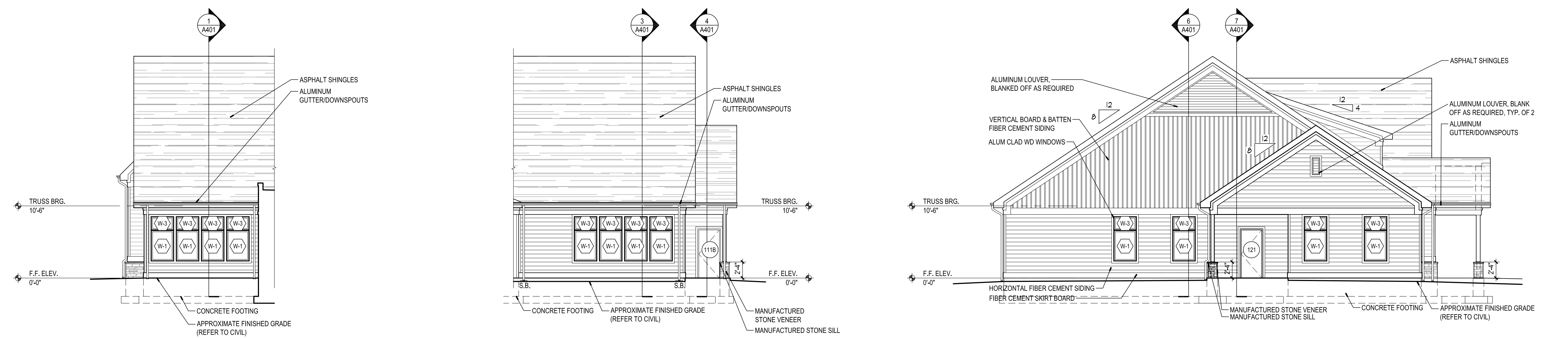


9 TROLLEY HOUSE - PARTIAL REAR ELEVATION
SCALE: 1/8" = 1'-0"

8 TROLLEY HOUSE - PARTIAL SIDE ELEVATION
SCALE: 1/8" = 1'-0"

7 TROLLEY HOUSE - FRONT ELEVATION
SCALE: 1/8" = 1'-0"

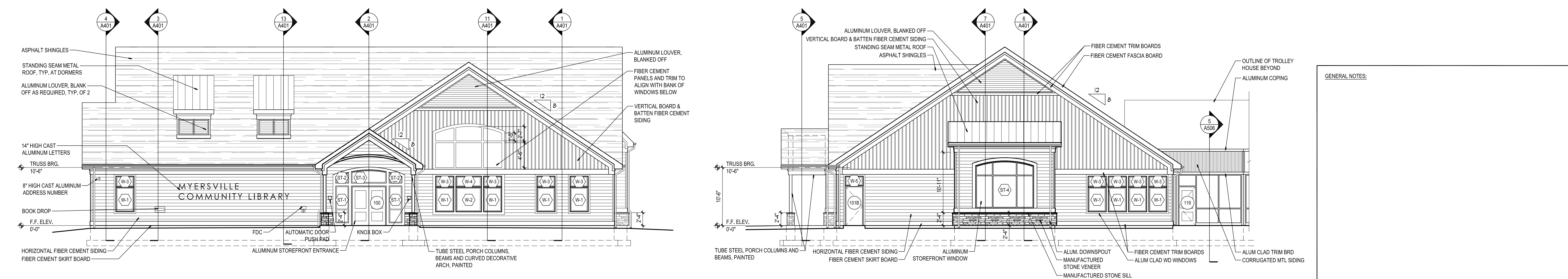
6 TROLLEY HOUSE - SIDE ELEVATION
SCALE: 1/8" = 1'-0"



5 PARTIAL REAR ELEVATION
SCALE: 1/8" = 1'-0"

4 PARTIAL REAR ELEVATION
SCALE: 1/8" = 1'-0"

3 SIDE ELEVATION
SCALE: 1/8" = 1'-0"



2 FRONT ELEVATION
SCALE: 1/8" = 1'-0"

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

GENERAL NOTES:

MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
8 HARP PLACE
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PROJECT OWNER
**FREDERICK COUNTY,
MARYLAND
DEPARTMENT OF PUBLIC
WORKS**

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REV. #:	DESCRIPTION:	DATE:

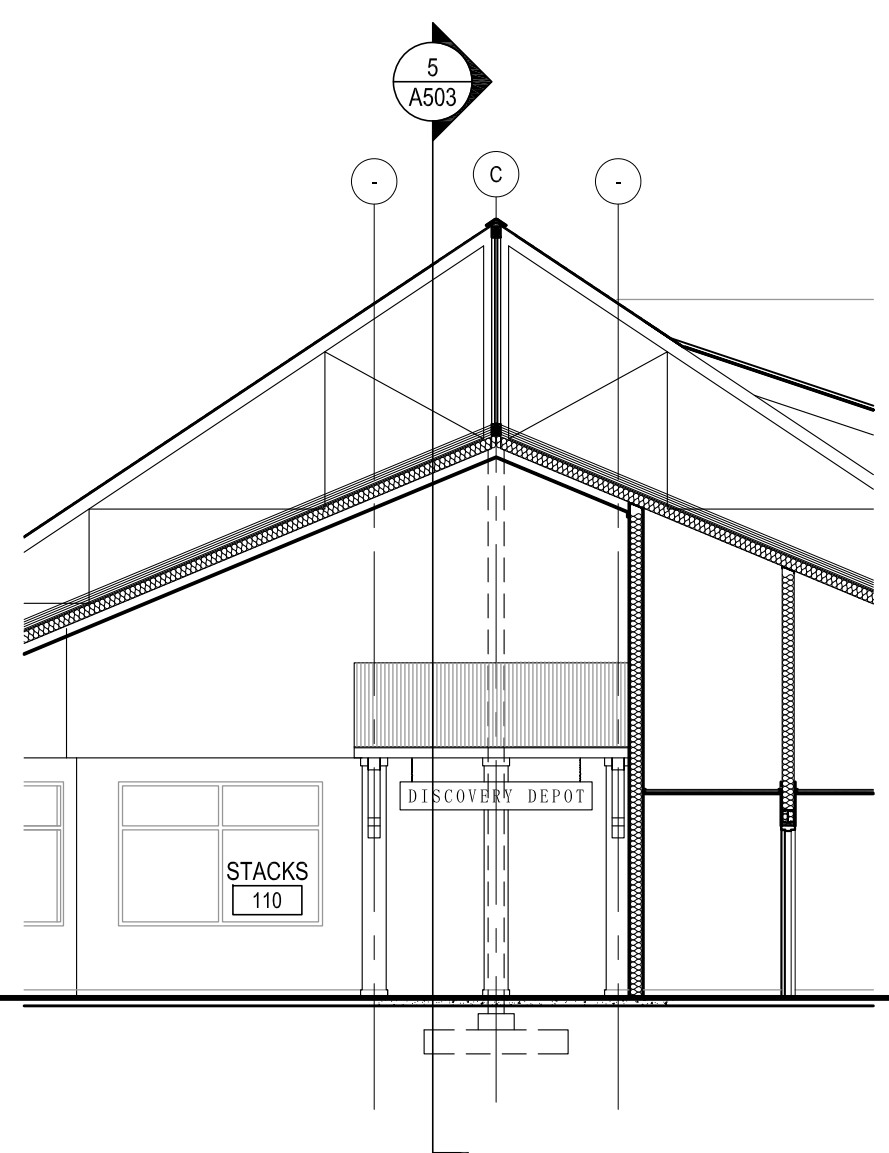
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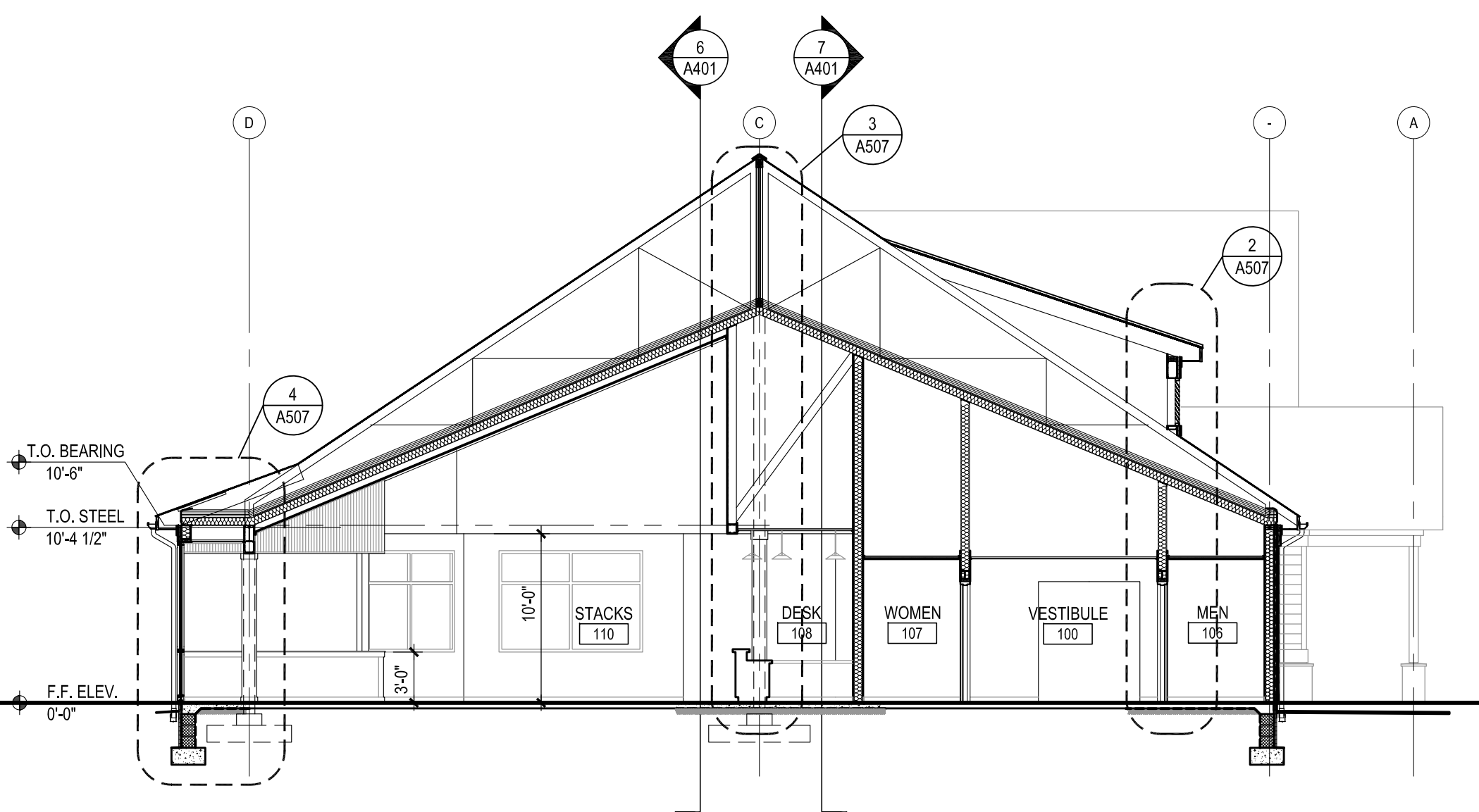
BUILDING SECTIONS

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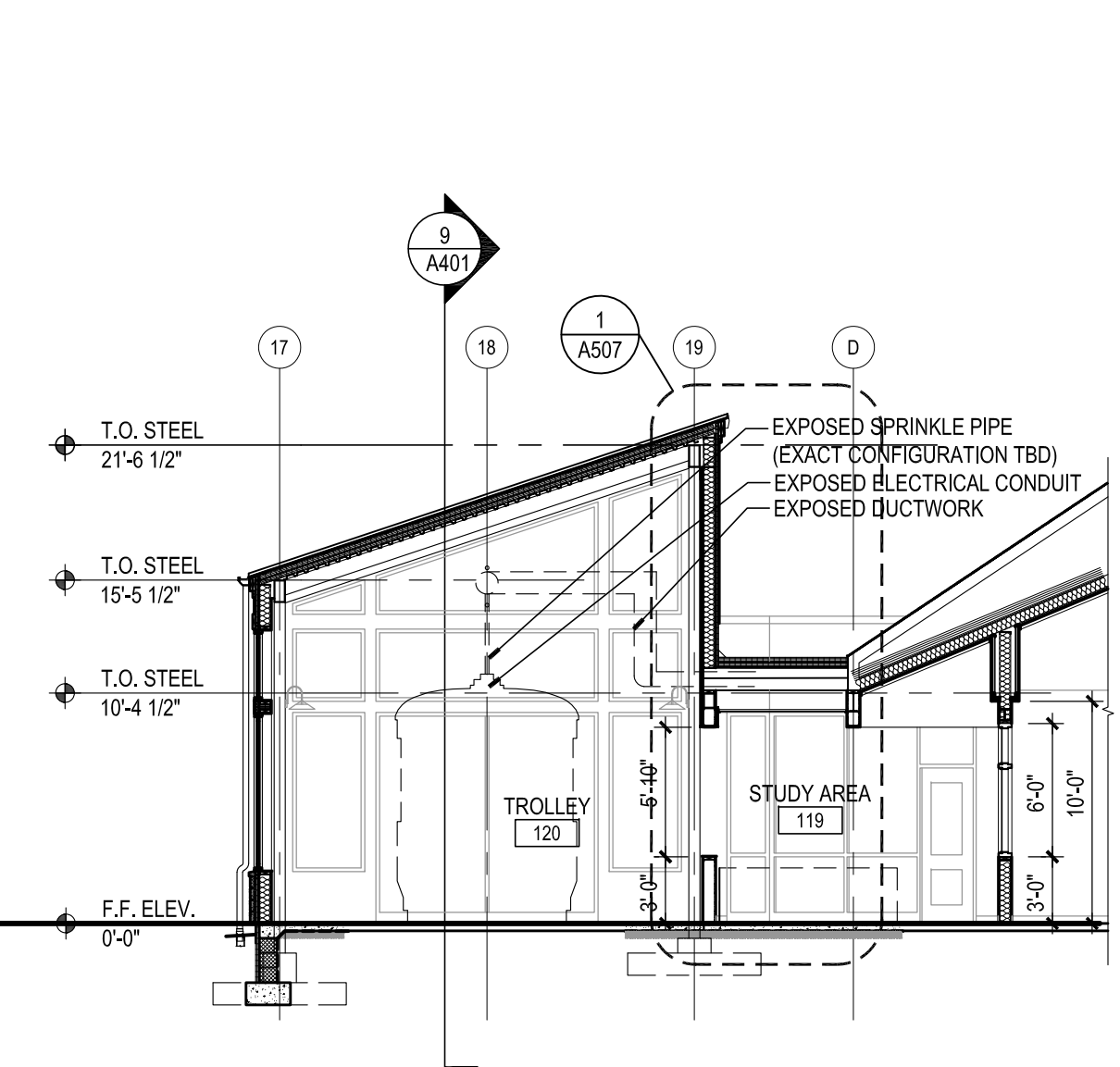
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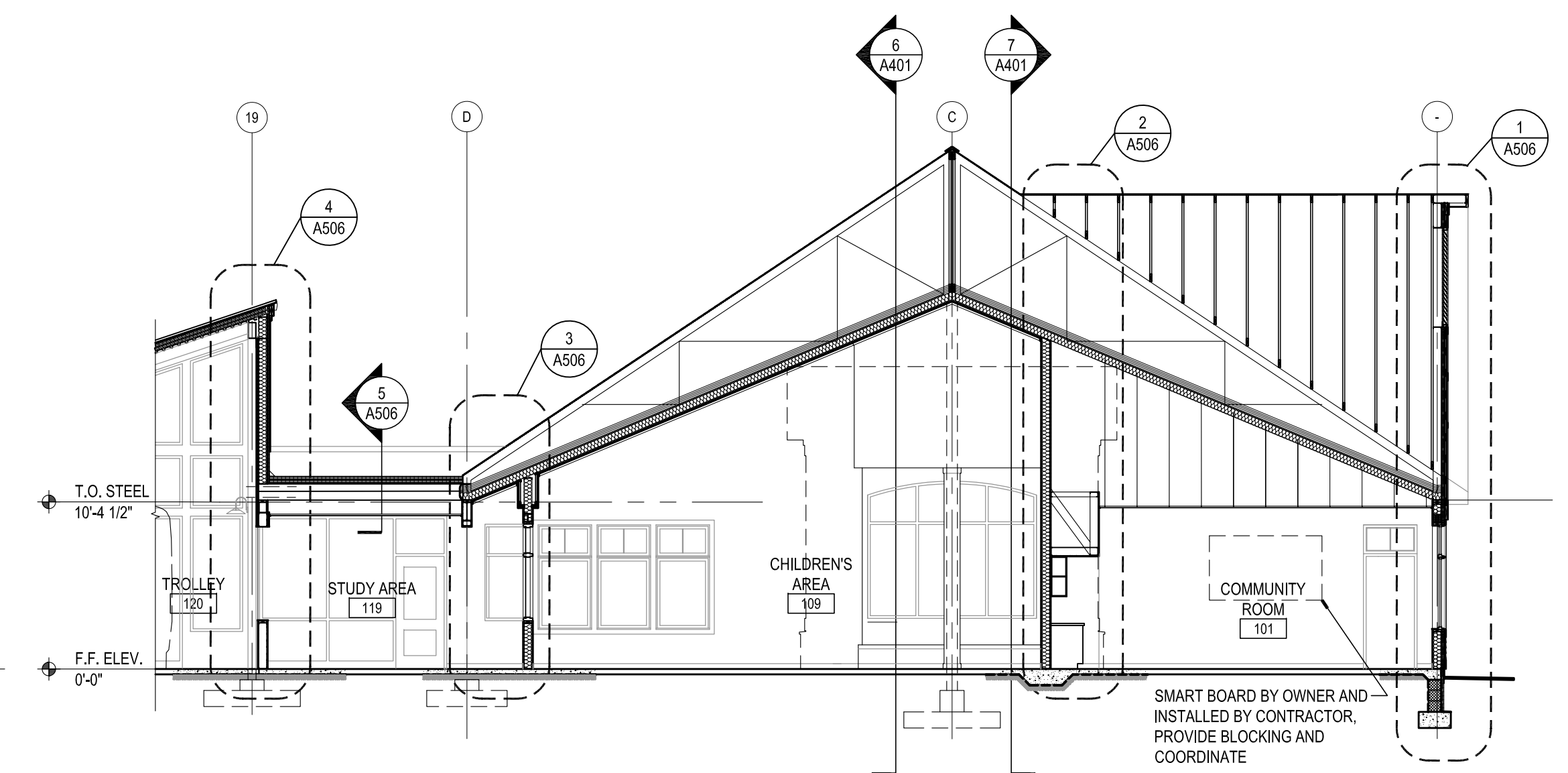
13 BUILDING SECTION
SCALE: 1/8" = 1'-0"



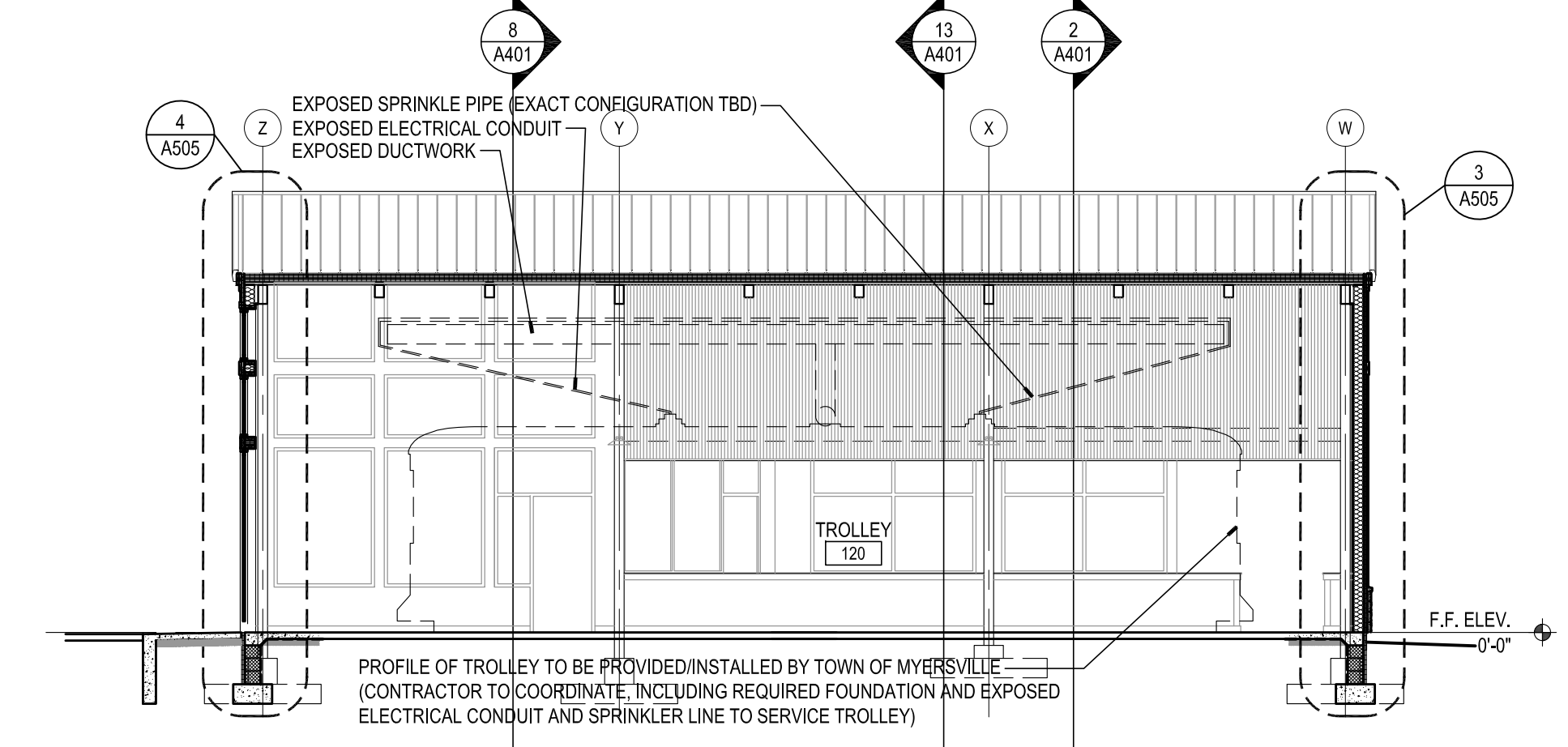
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SCALE: 1/8" = 1'-0"



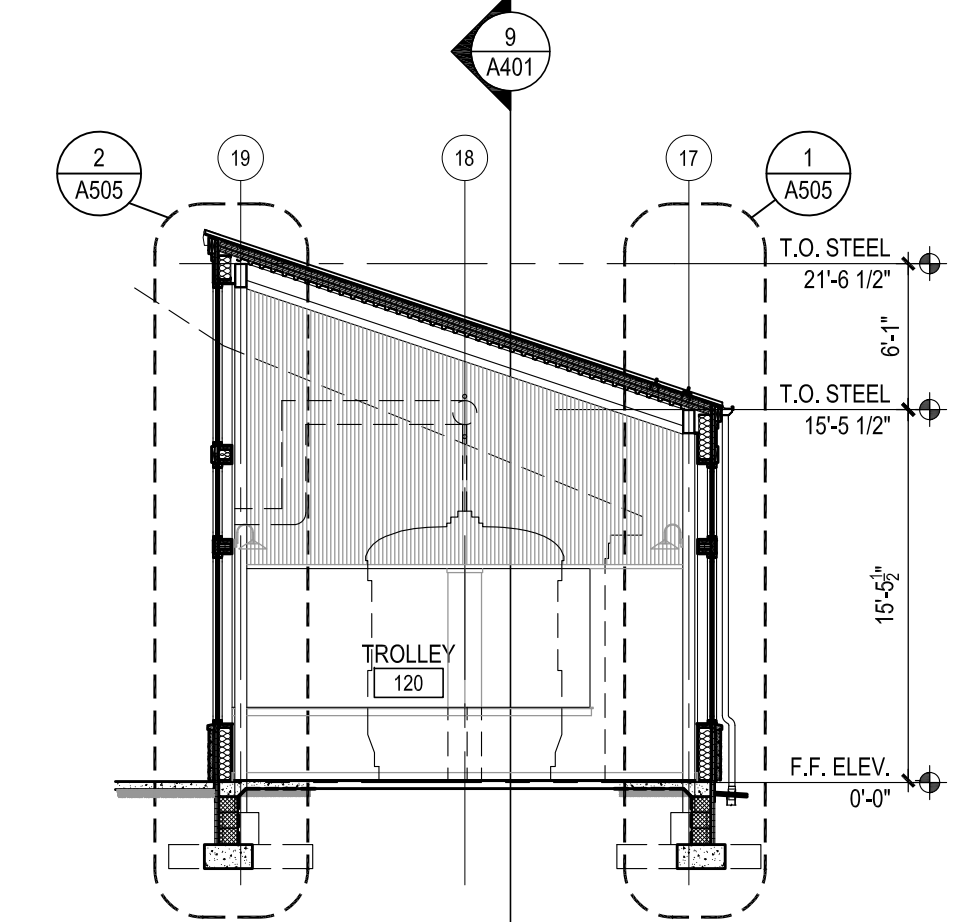
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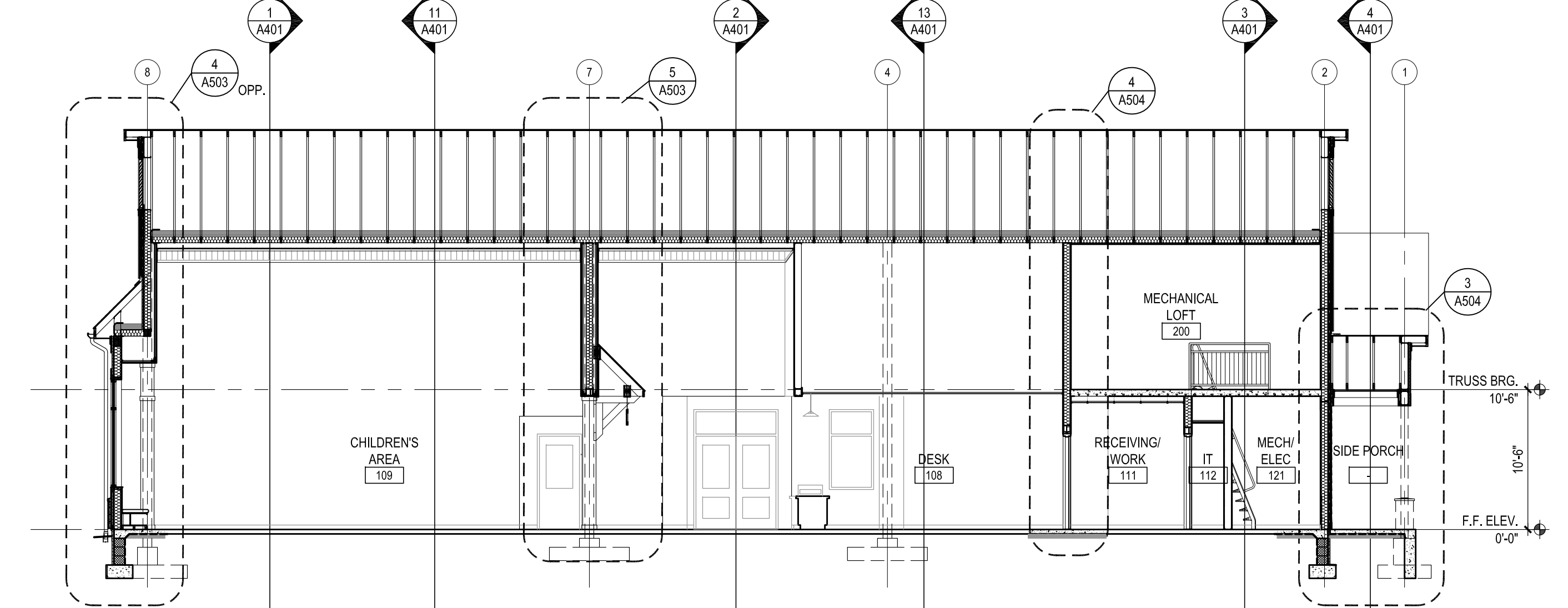
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SCALE: 1/8" = 1'-0"



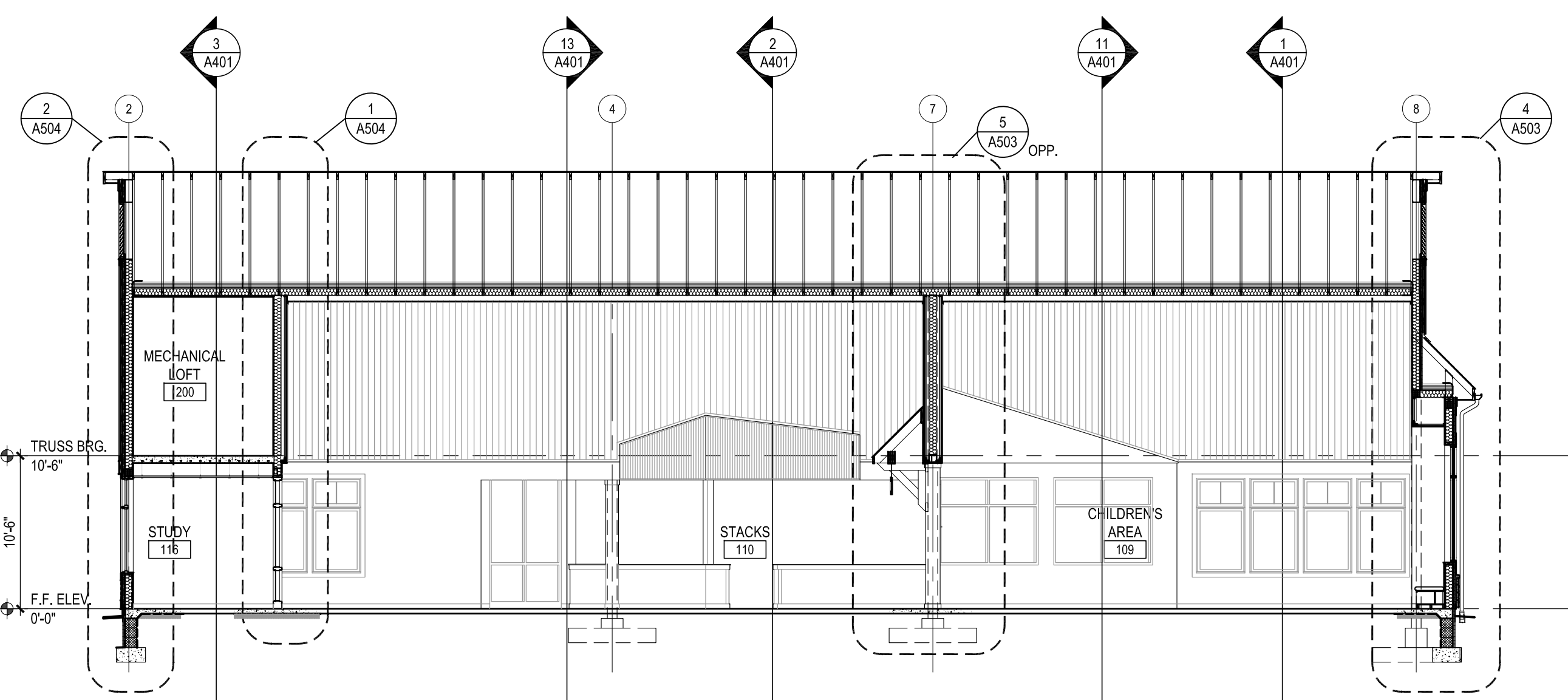
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SCALE: 1/8" = 1'-0"



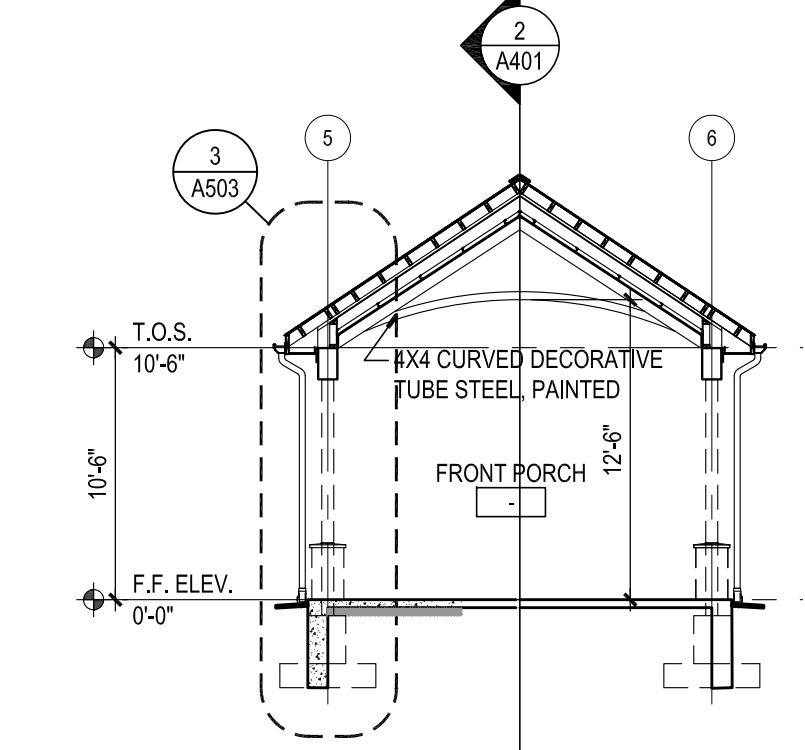
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SCALE: 1/8" = 1'-0"



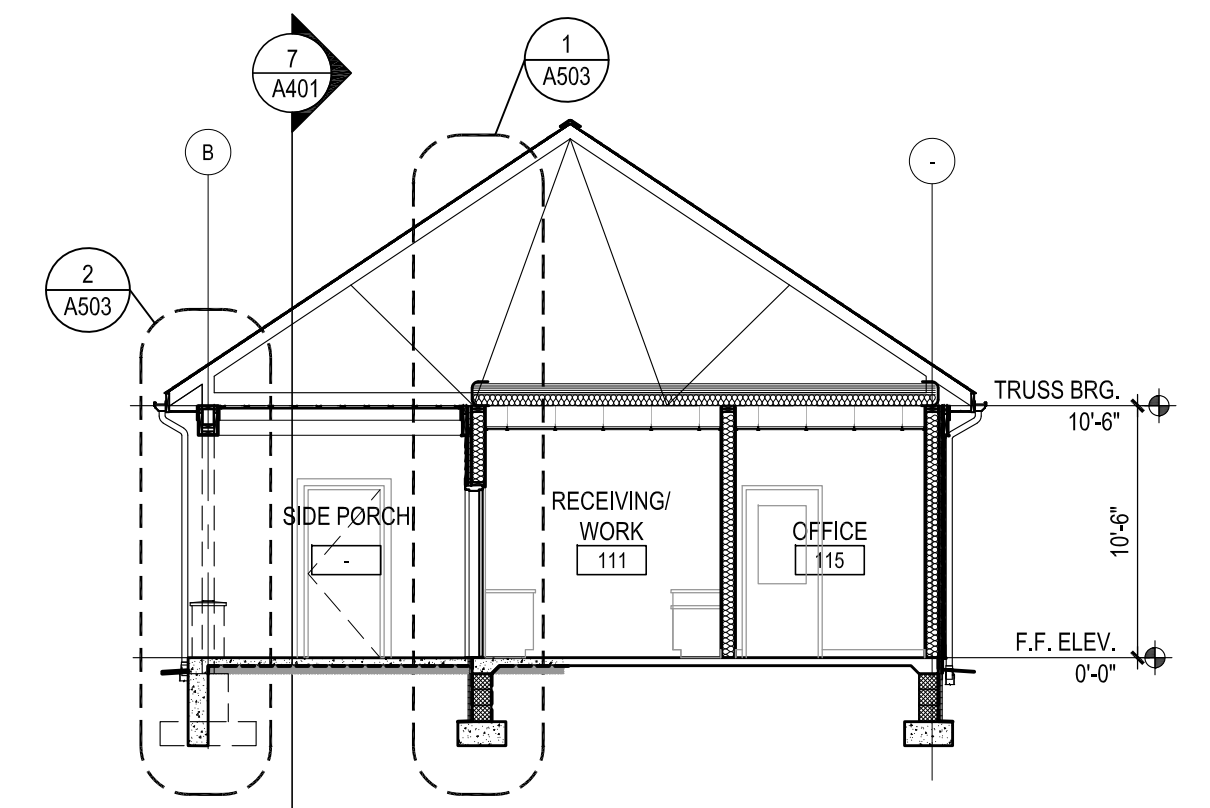
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SCALE: 1/8" = 1'-0"



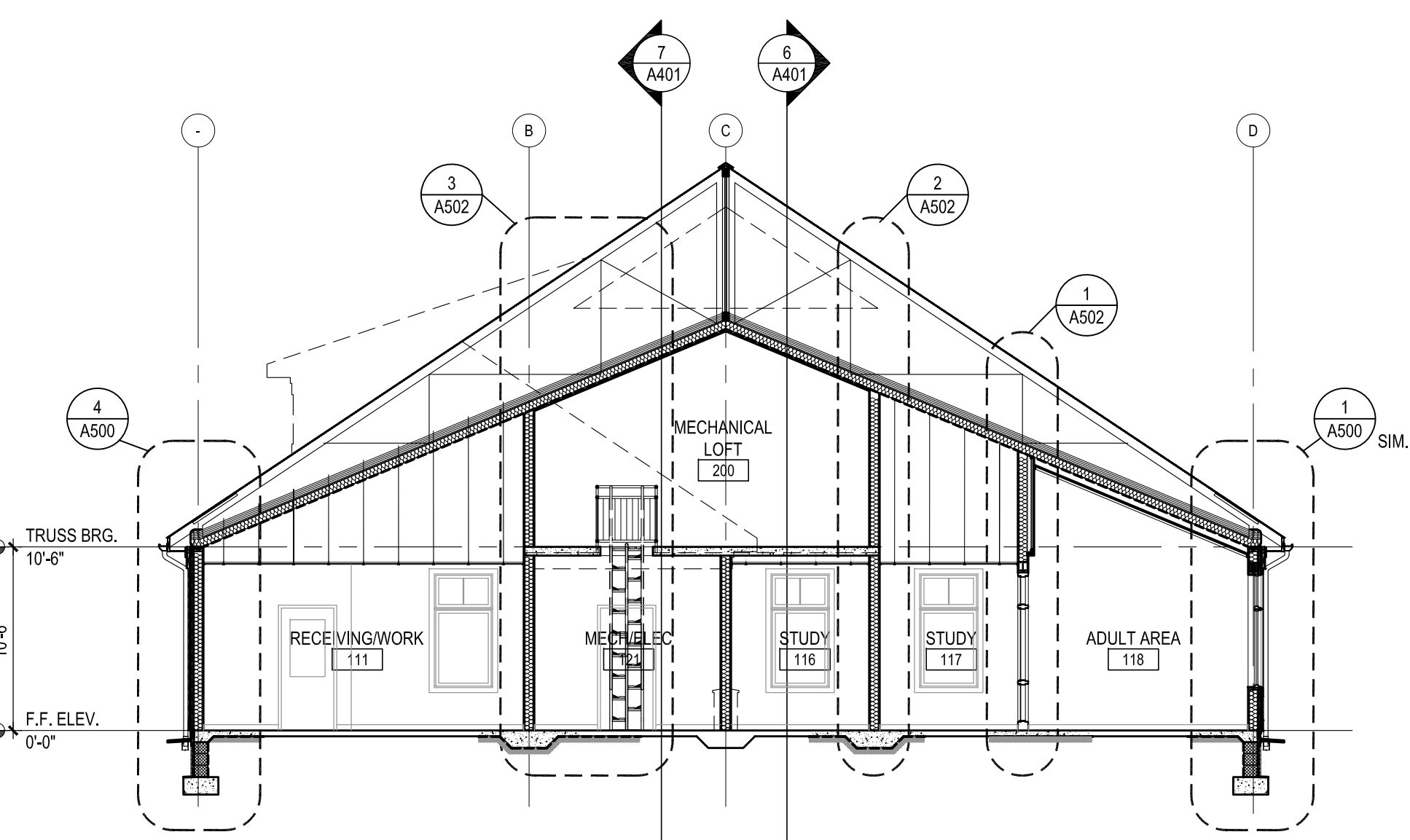
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SCALE: 1/8" = 1'-0"



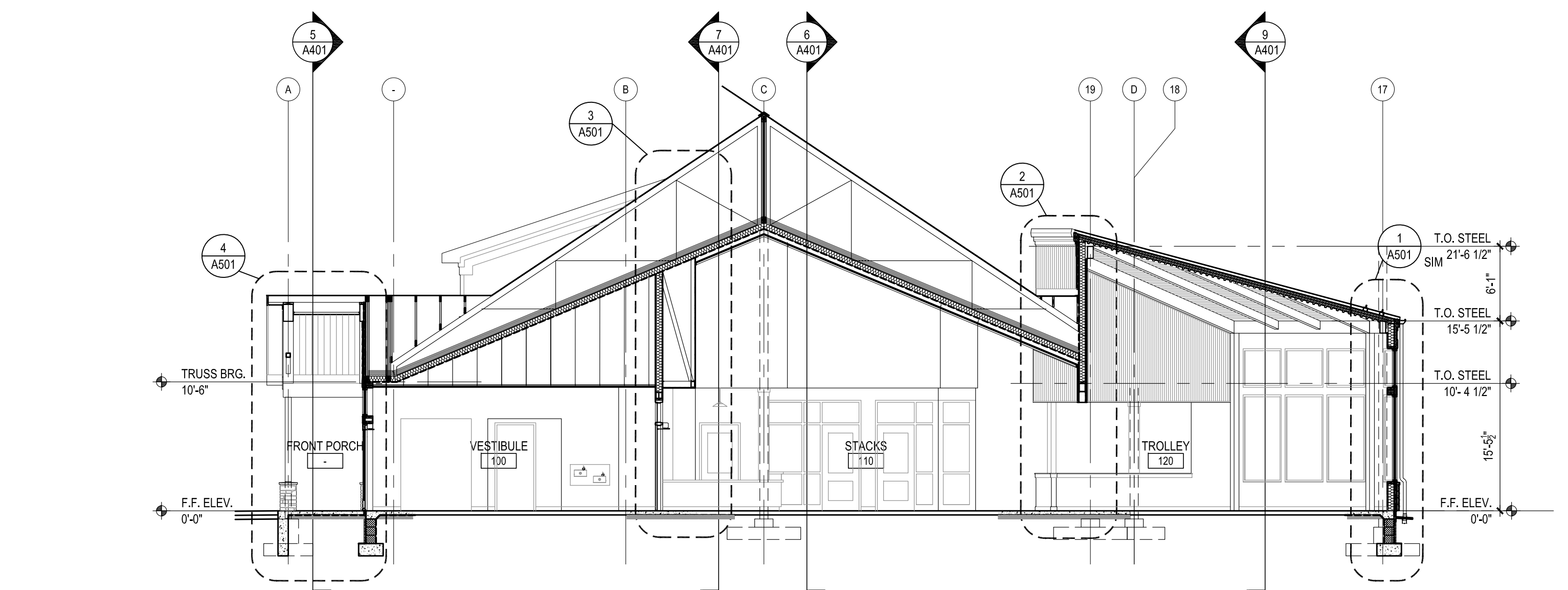
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SCALE: 1/8" = 1'-0"



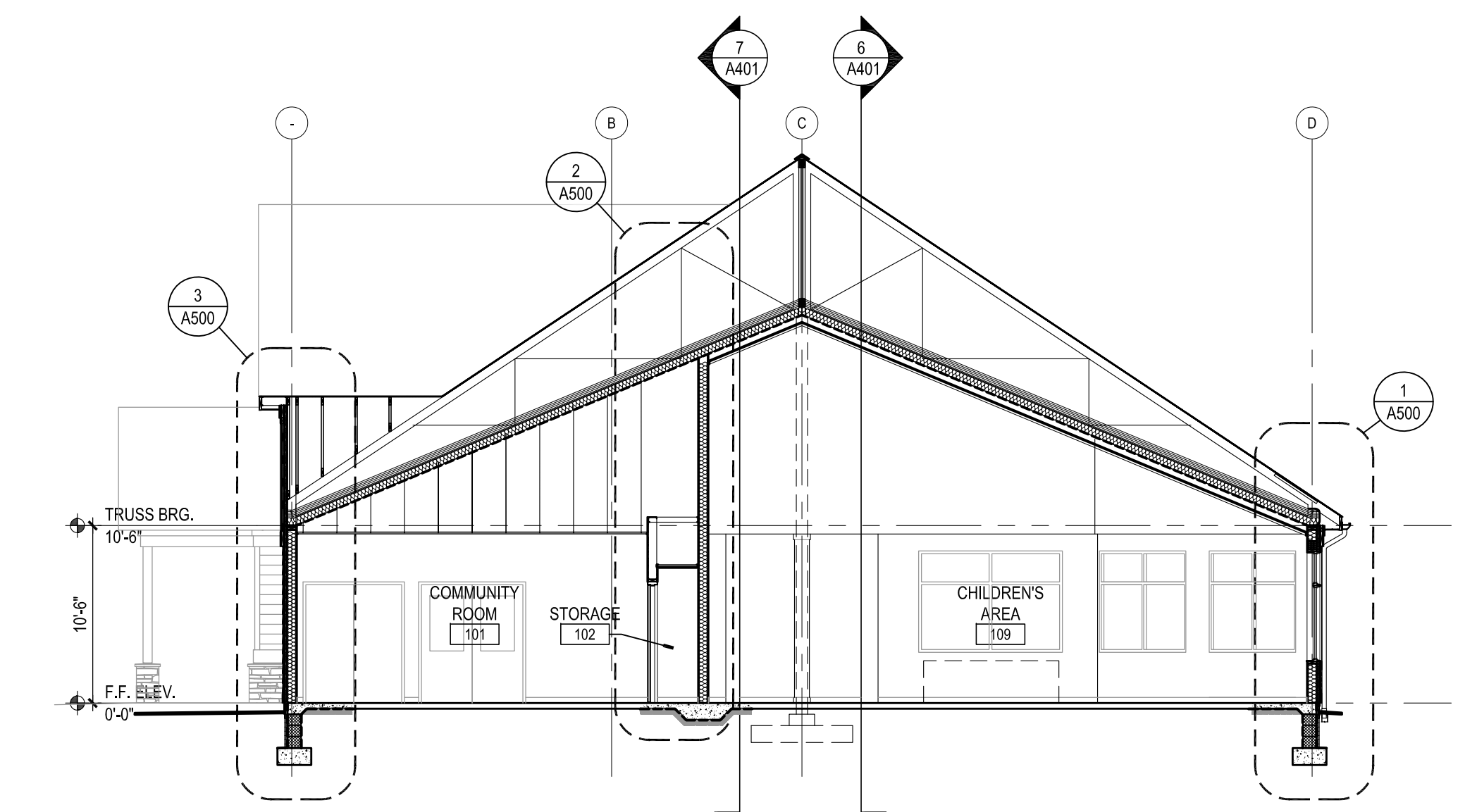
4 BUILDING SECTION
SCALE: 1/8" = 1'-0"



3 BUILDING SECTION
SCALE: 1/8" = 1'-0"



2 BUILDING SECTION
SCALE: 1/8" = 1'-0"



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

GENERAL NOTES:

- ALL FLASHING COMPONENTS SHALL BE 20 GA. MINIMUM THICK PER FREDERICK COUNTY STANDARDS.
- ALL DRYWALL SHALL BE INSTALLED WITH 1/2" GAP BETWEEN FLOOR AND EDGE OF DRYWALL.

MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
8 HARP PLACE
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PROJECT OWNER
FREDERICK COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

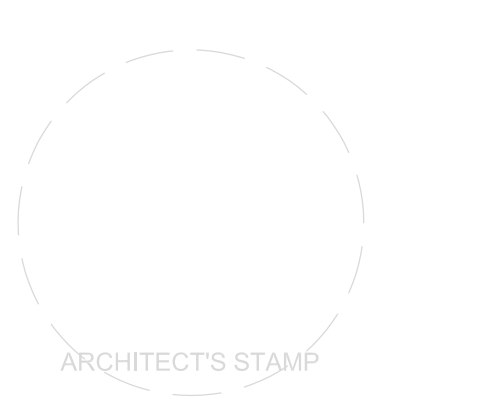
PROJECT TEAM

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SHEET INFORMATION

KEY PLAN

REVISIONS

REV. #	DESCRIPTION	DATE

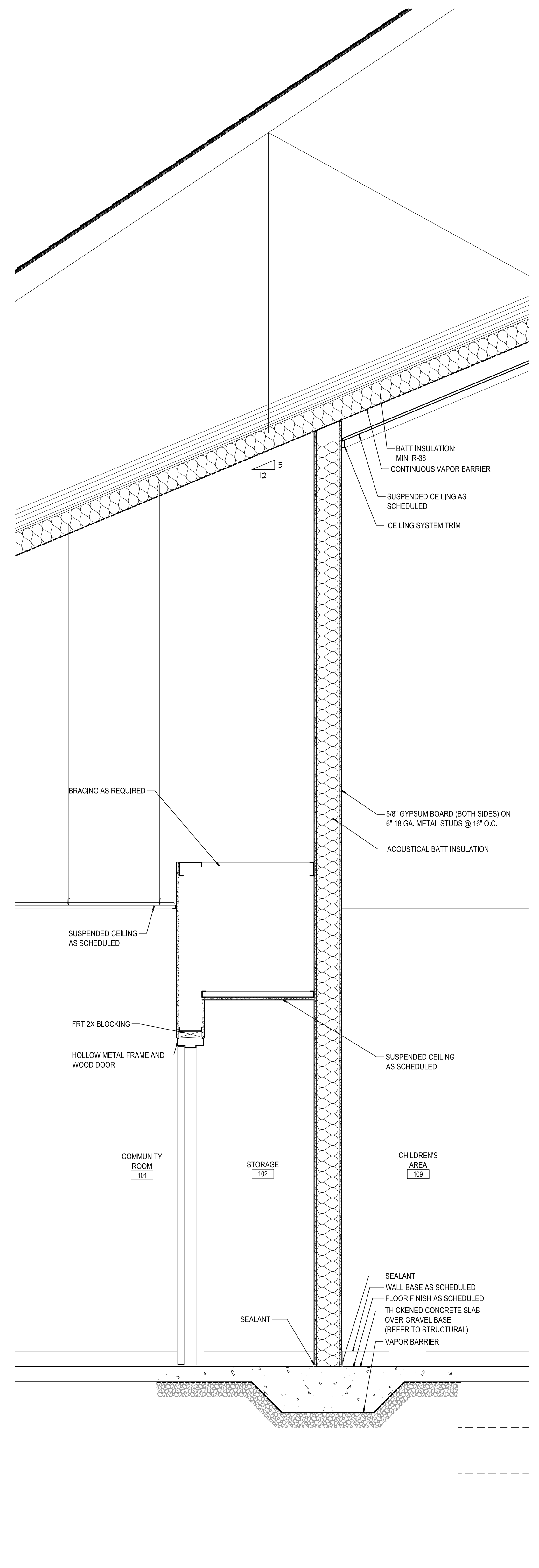
PROJECT STATUS

JOB NUMBER:	17905
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SHEET TITLE:	

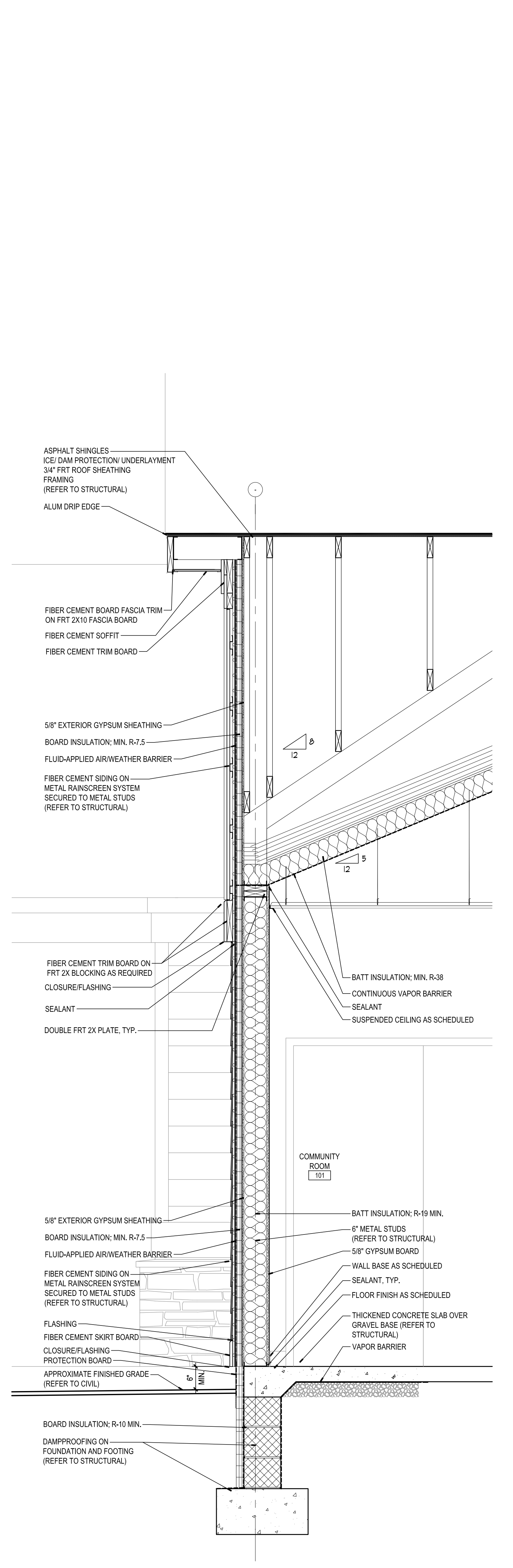
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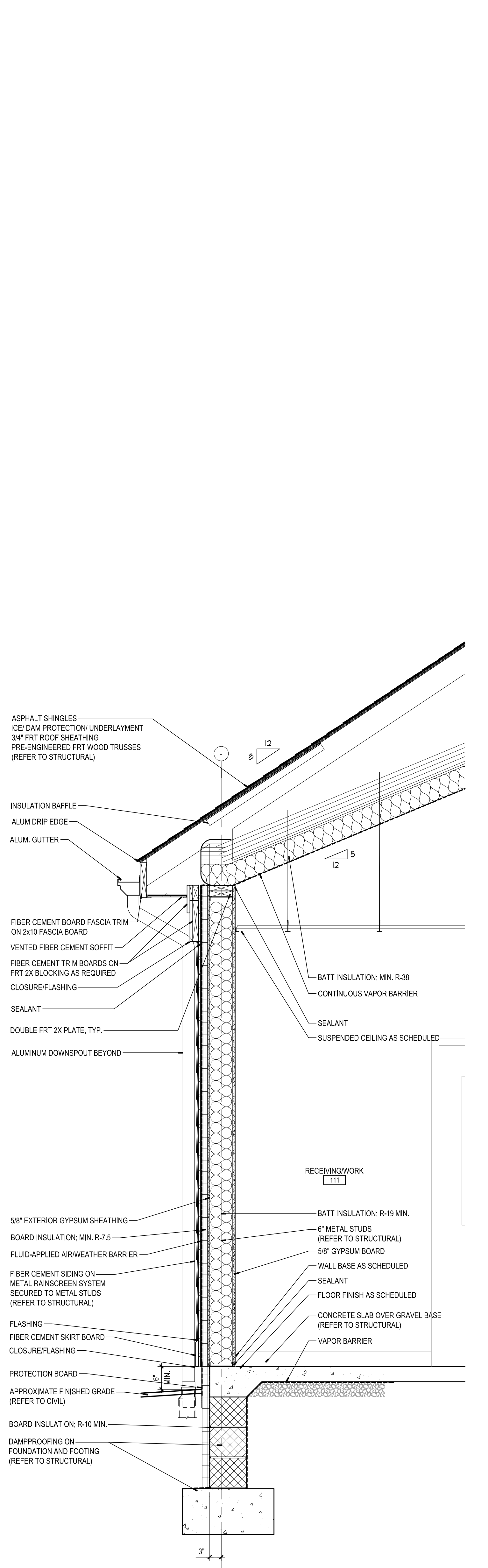
A500



2 WALL SECTION
SCALE: 3/4" = 1'-0"



3 WALL SECTION
SCALE: 3/4" = 1'-0"



4 WALL SECTION
SCALE: 3/4" = 1'-0"

MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
8 HARP PLACE
MYERSVILLE, MD 21773

PROJECT OWNER
FREDERICK COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

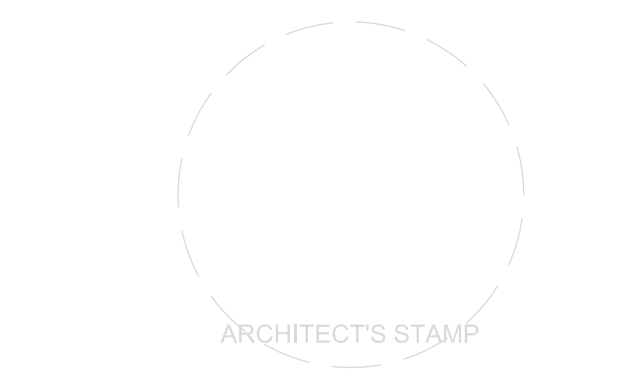
PROJECT TEAM

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SHEET INFORMATION

KEY PLAN

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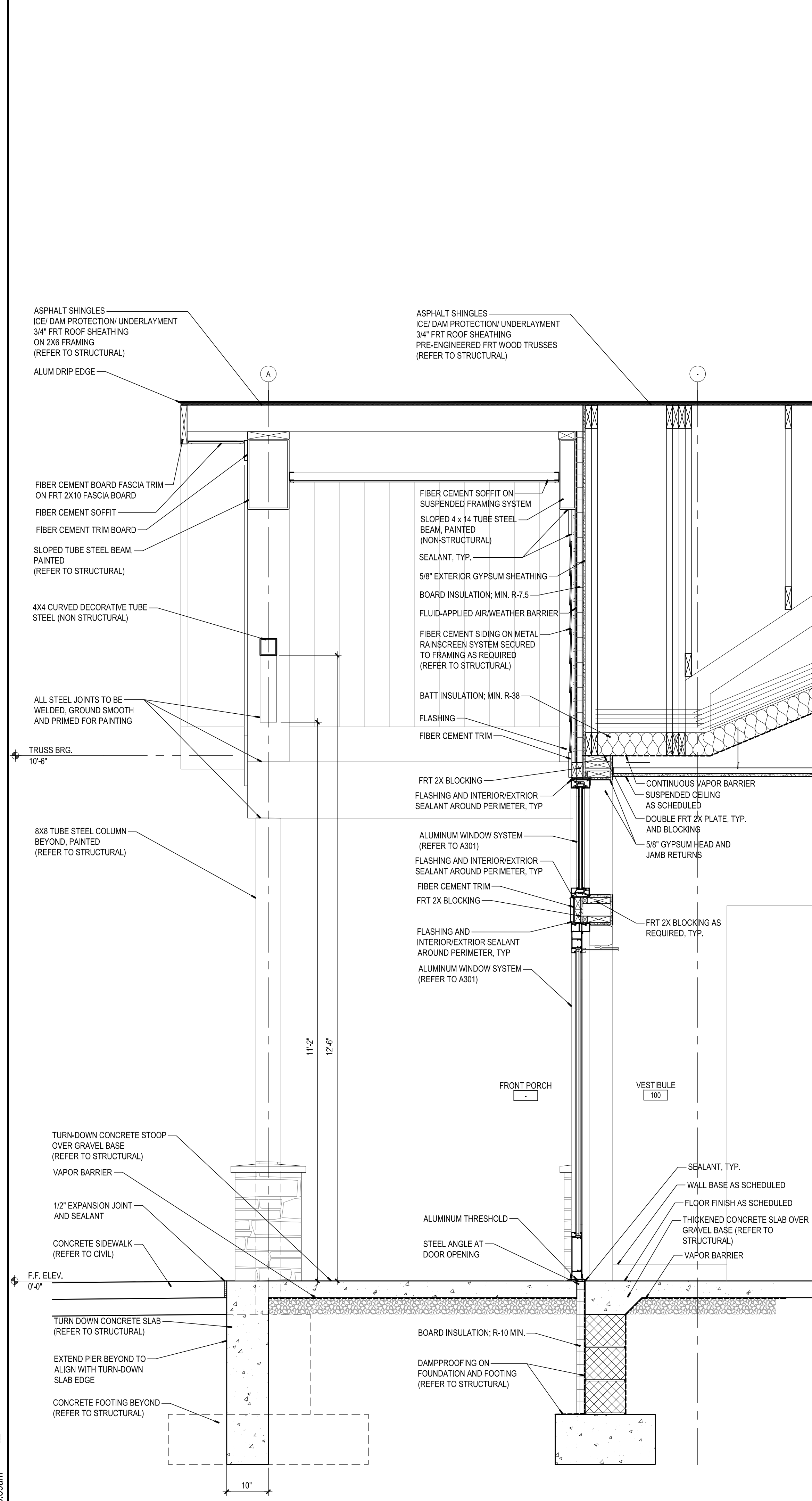
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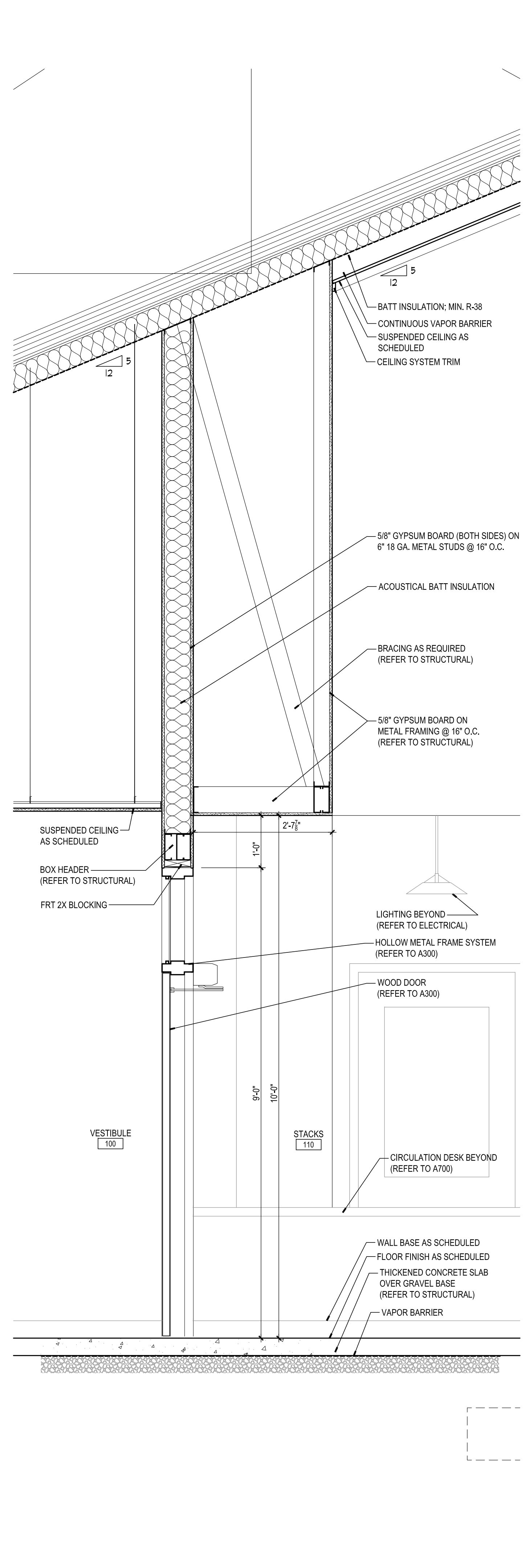
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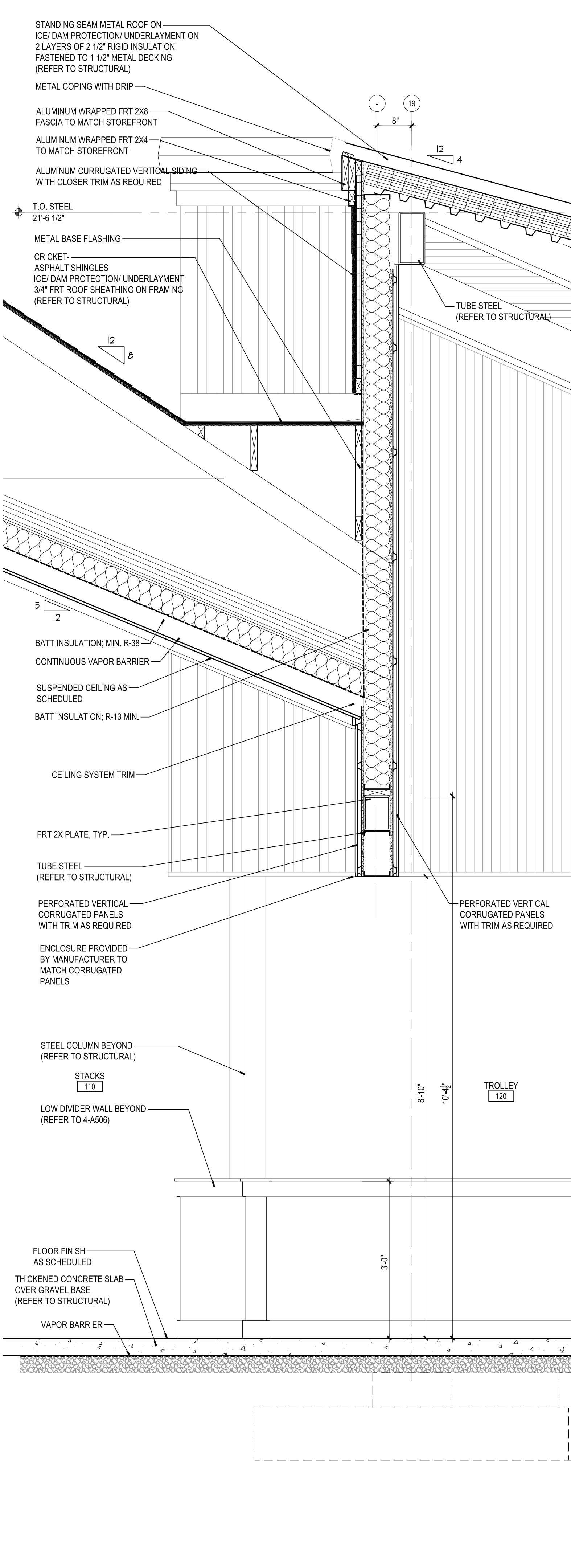
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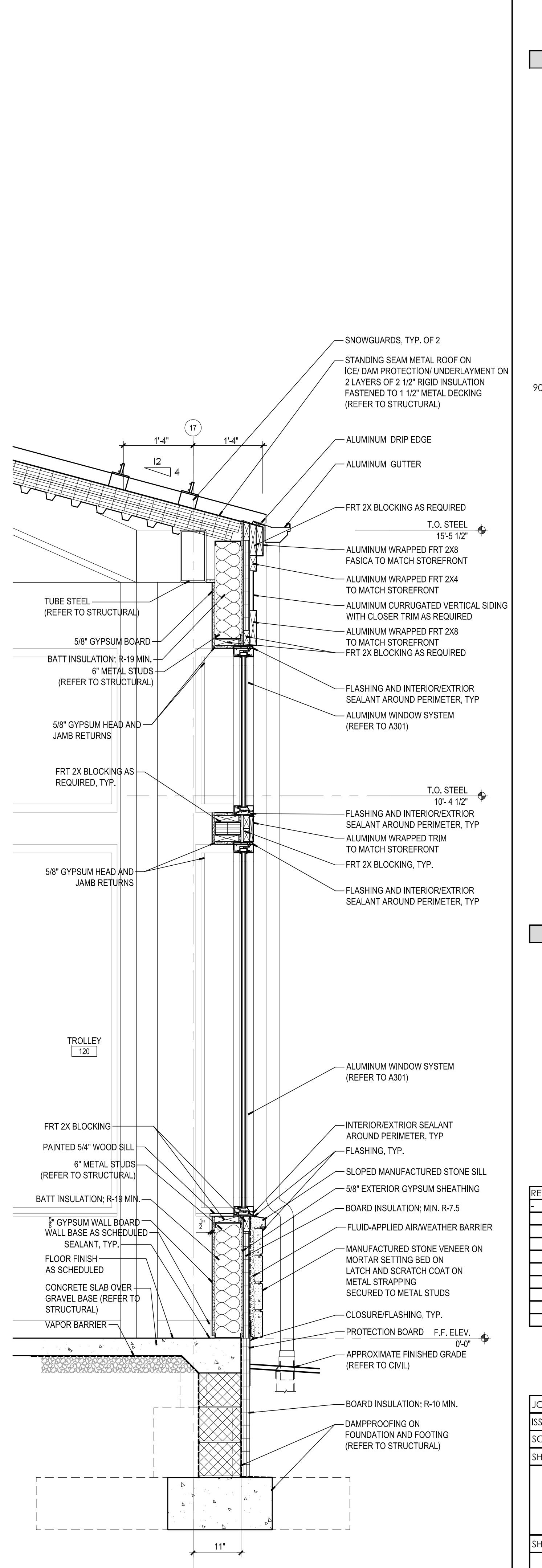
4 WALL SECTION
SCALE: 3/4" = 1'-0"



3 WALL SECTION
SCALE: 3/4" = 1'-0"



2 WALL SECTION
SCALE: 3/4" = 1'-0"



1 WALL SECTION
SCALE: 3/4" = 1'-0"

MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
 8 HARP PLACE
 MYERSVILLE, MD 21773

PROJECT OWNER
FREDERICK COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS

PROJECT TEAM

ARCHITECT

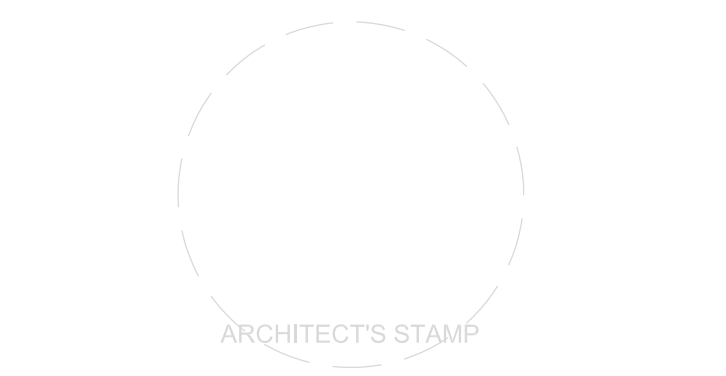
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SHEET INFORMATION

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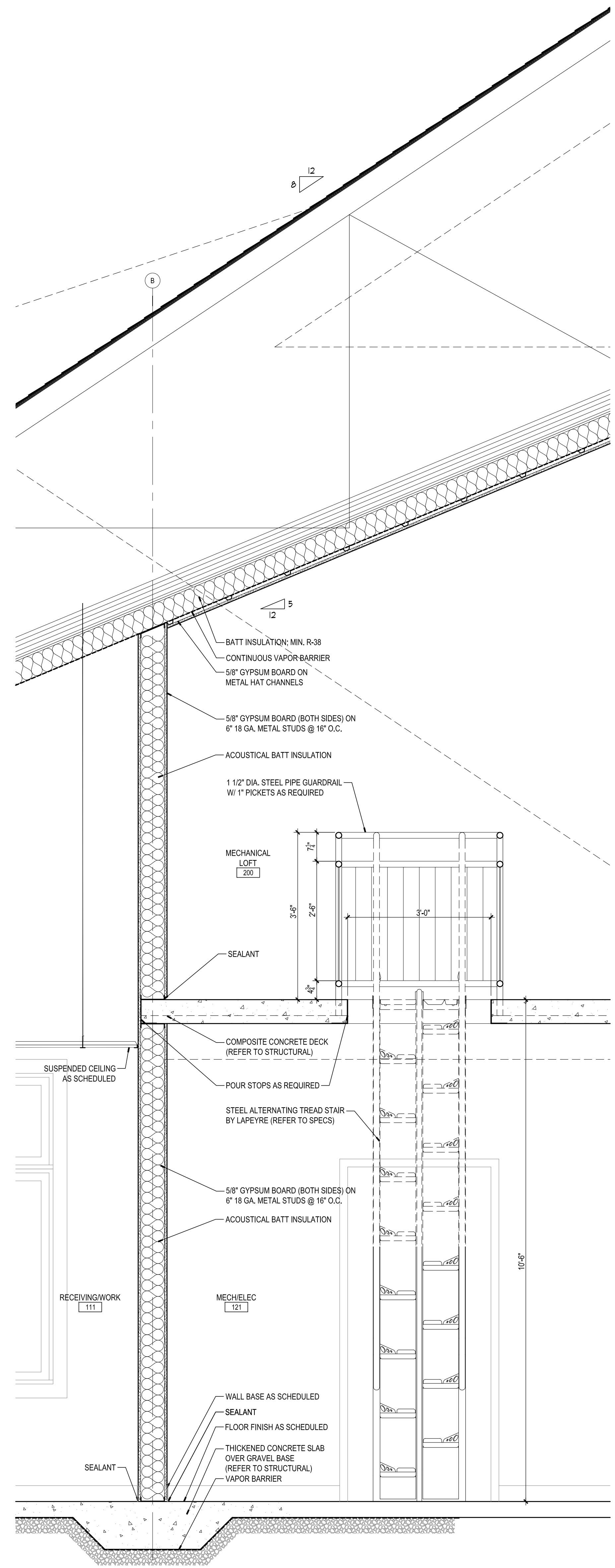
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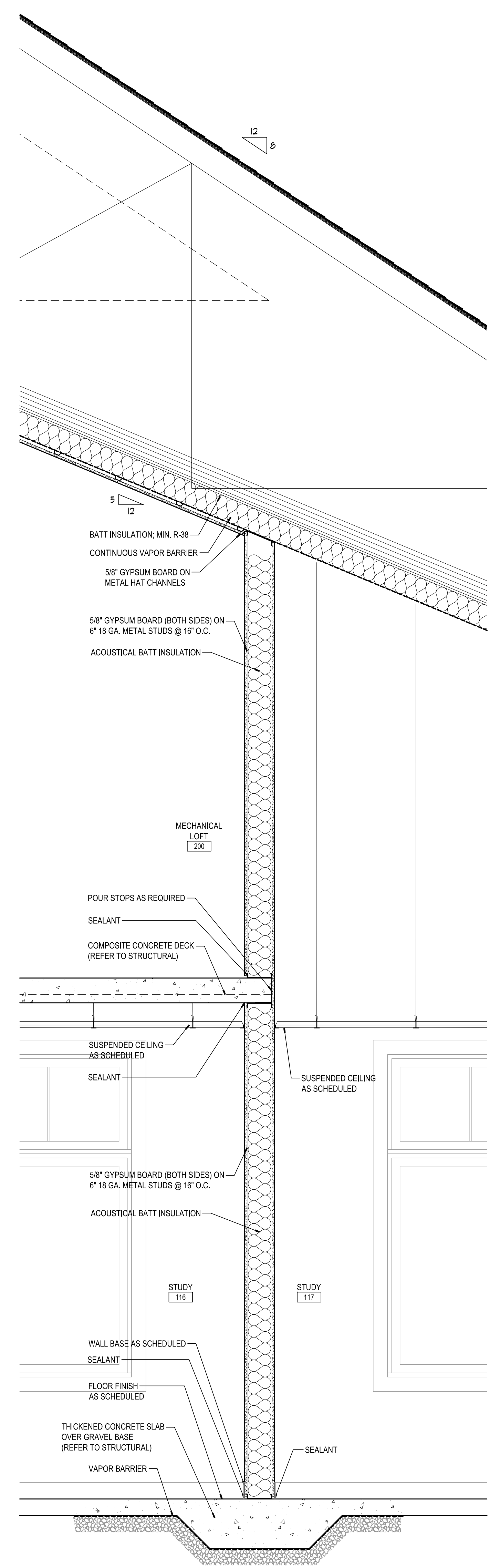
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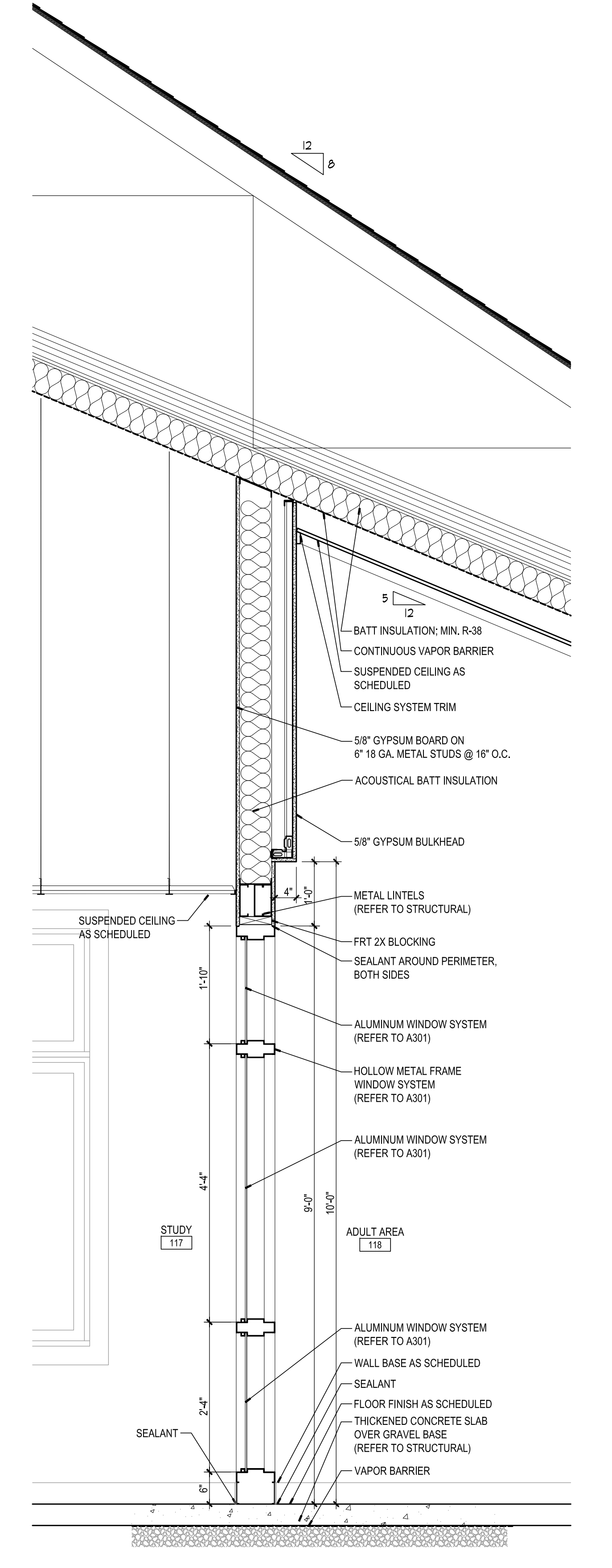
A502



3 WALL SECTION
 SCALE: 3/4" = 1'-0"



2 WALL SECTION
 SCALE: 3/4" = 1'-0"



1 WALL SECTION
 SCALE: 3/4" = 1'-0"

MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
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PROJECT OWNER
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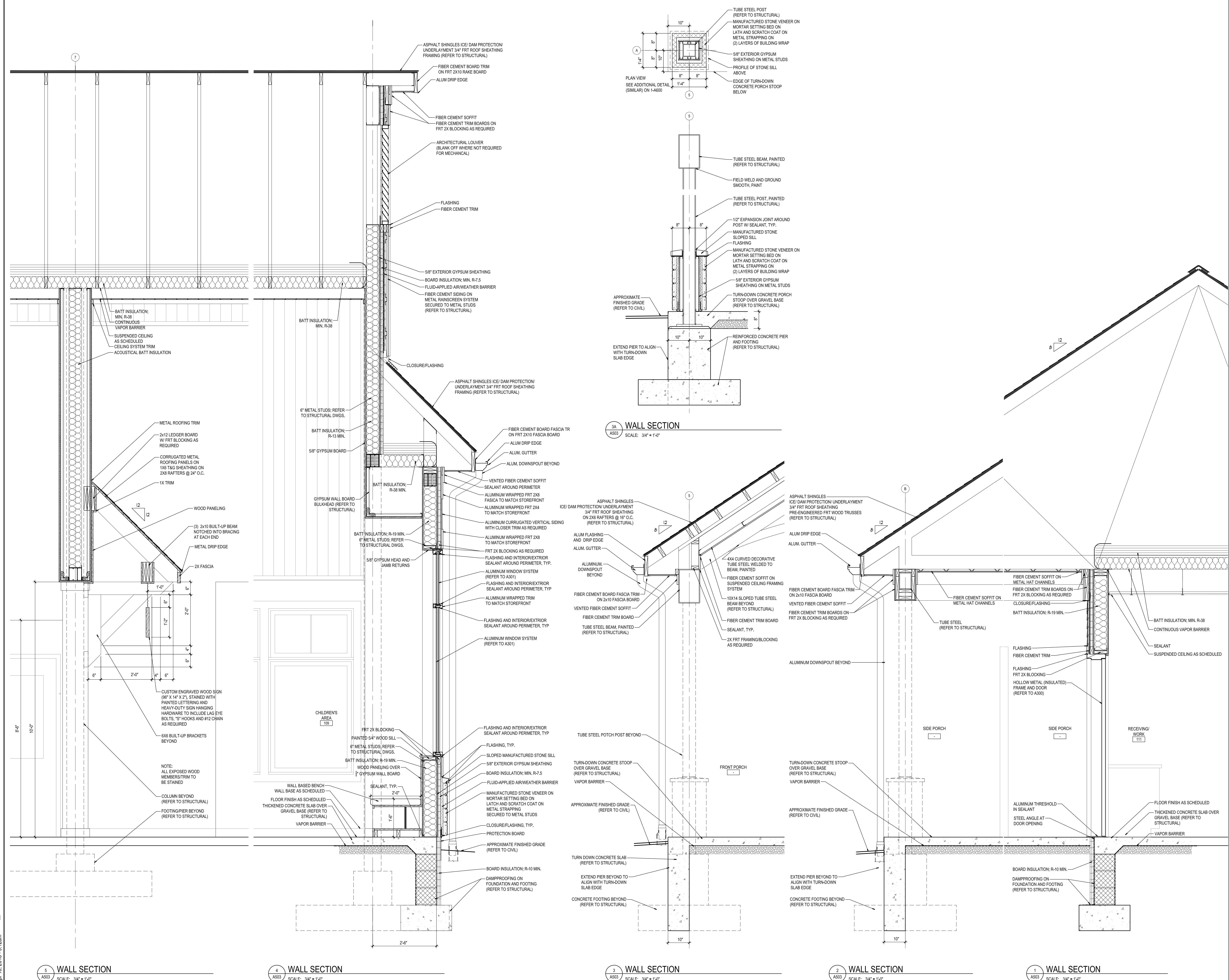
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ISSUE DATE: 10 APRIL 2018
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SHEET TITLE:

WALL SECTIONS

SHEET NUMBER:

A503



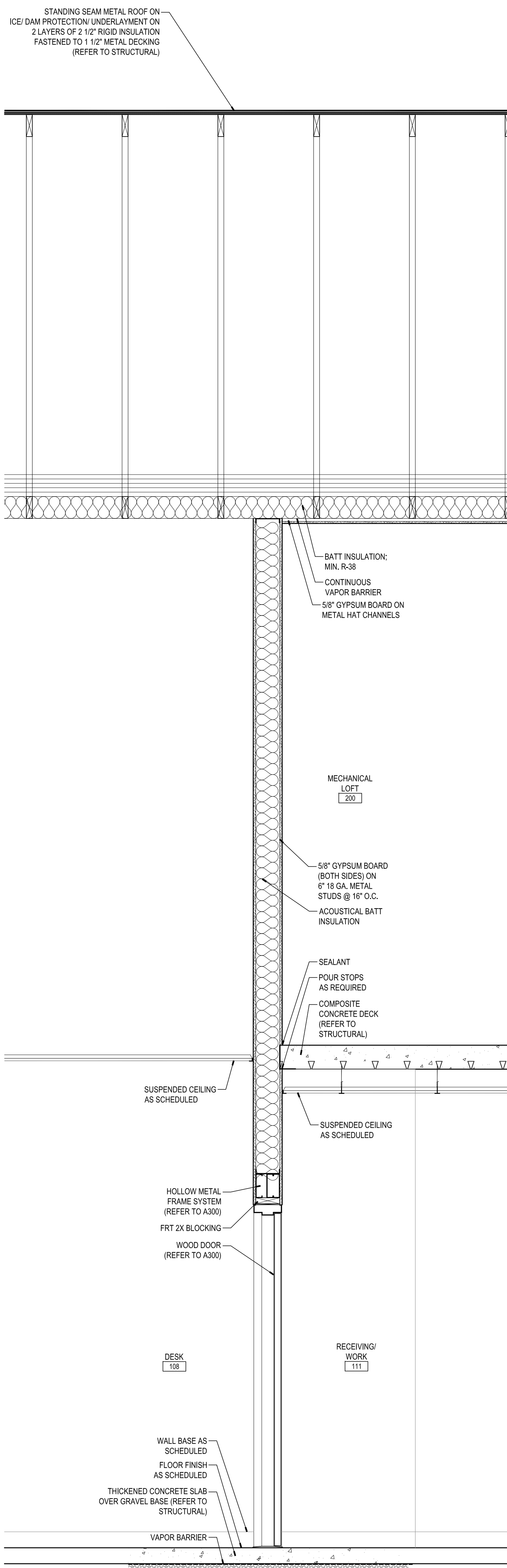
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4 WALL SECTION
SCALE: 3/4" = 1'-0"

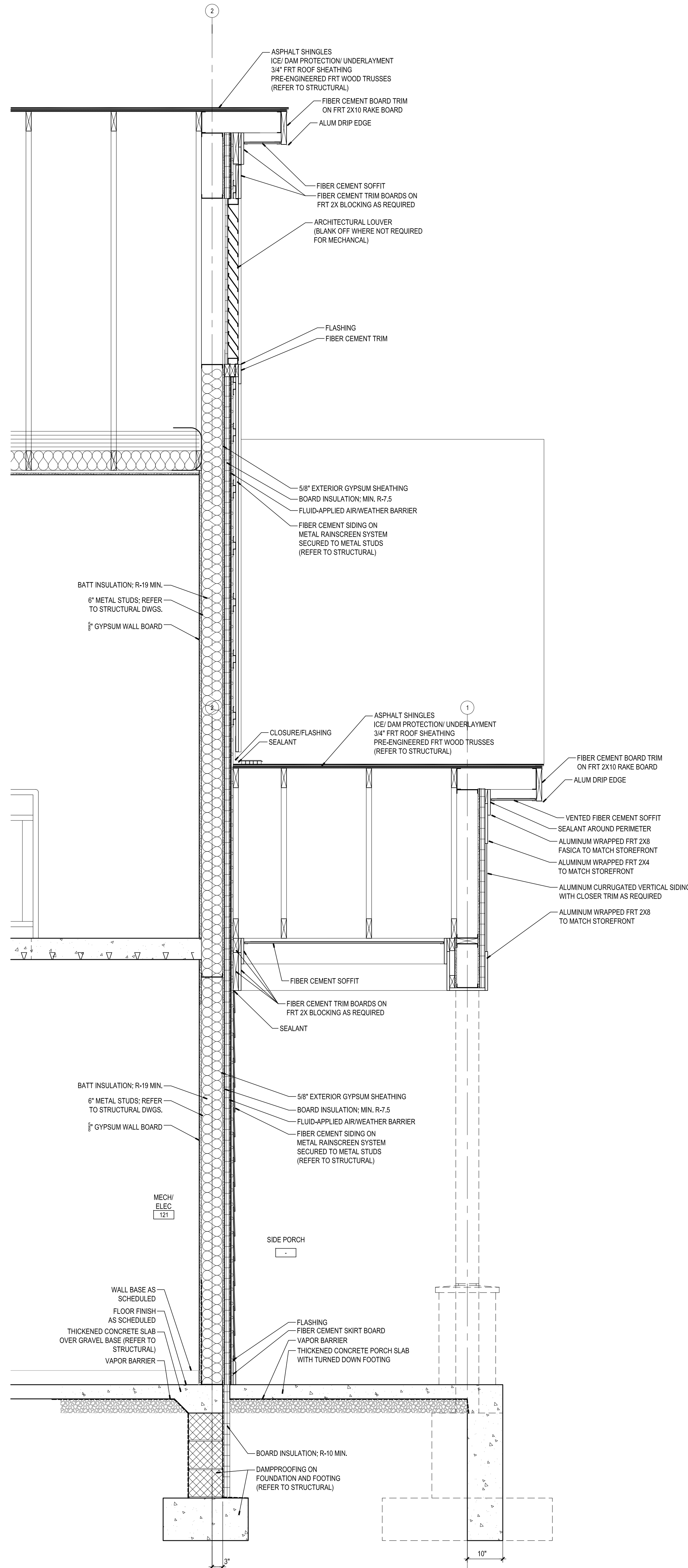
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SCALE: 3/4" = 1'-0"

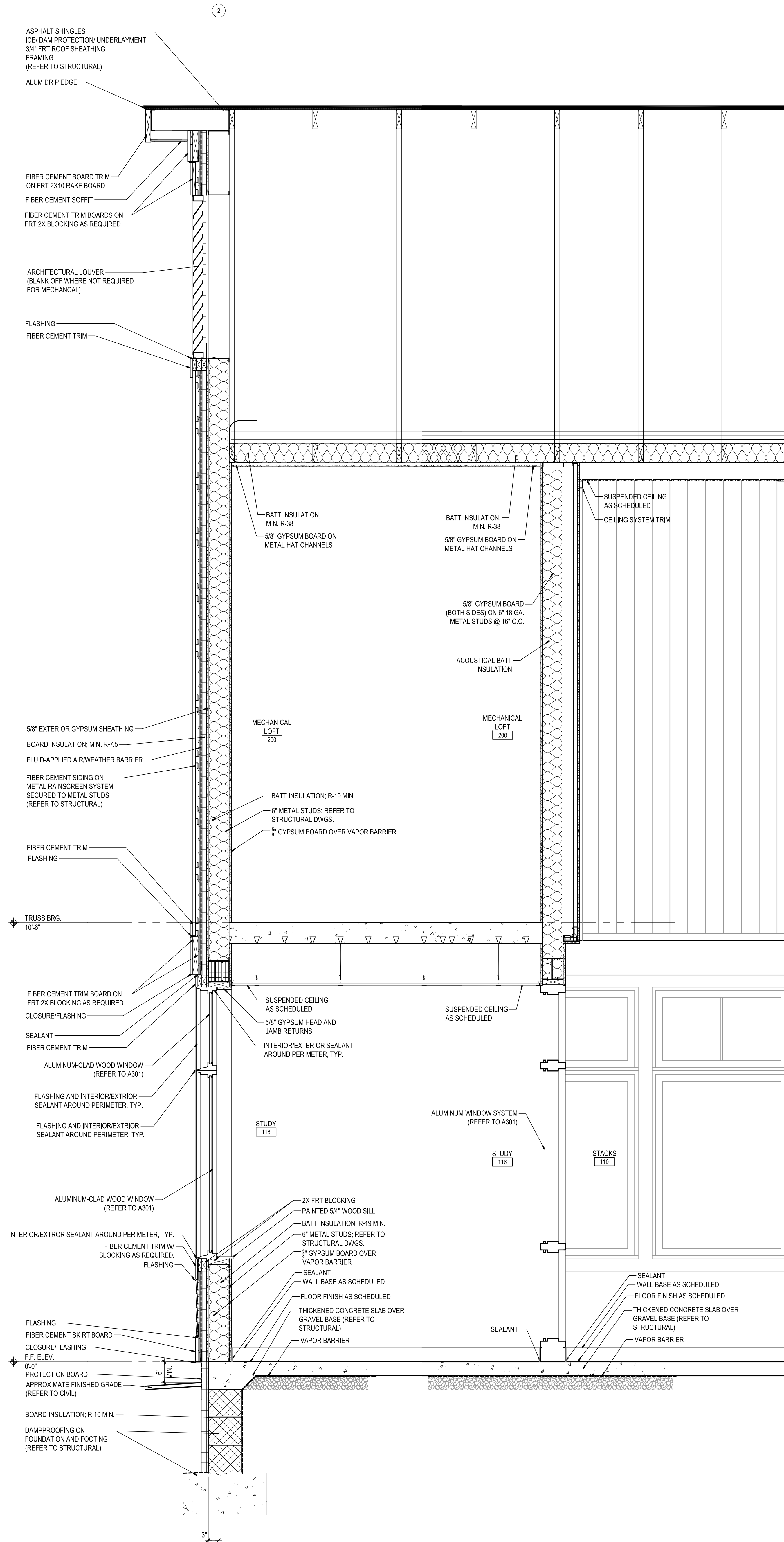
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4 WALL SECTION
SCALE: 3/4" = 1'-0"



3 WALL SECTION
SCALE: 3/4" = 1'-0"



2 WALL SECTION
SCALE: 3/4" = 1'-0"

1 WALL SECTION
SCALE: 3/4" = 1'-0"

PROJECT INFORMATION

MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
8 HARP PLACE
MYERSVILLE, MD 21773

PROJECT OWNER
FREDERICK COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

PROJECT TEAM

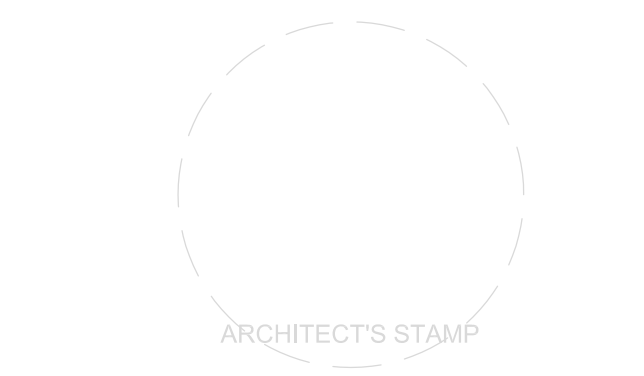
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SHEET INFORMATION

KEY PLAN

REVISIONS

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PROJECT STATUS

JOB NUMBER: 17905
ISSUE DATE: 10 APRIL 2018
SCALE: AS INDICATED
SHEET TITLE:

WALL SECTIONS

SHEET NUMBER:

A504

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8 HARP PLACE
MYERSVILLE, MD 21773

PROJECT OWNER
FREDERICK COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

PROJECT TEAM

ARCHITECT

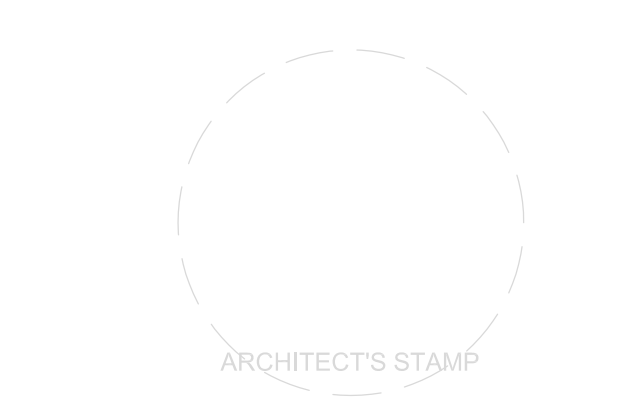


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P: 301.662.4488 | F: 301.662.4906



SHEET INFORMATION

KEY PLAN

REVISIONS

REV. #:	DESCRIPTION:	DATE:

PROJECT STATUS

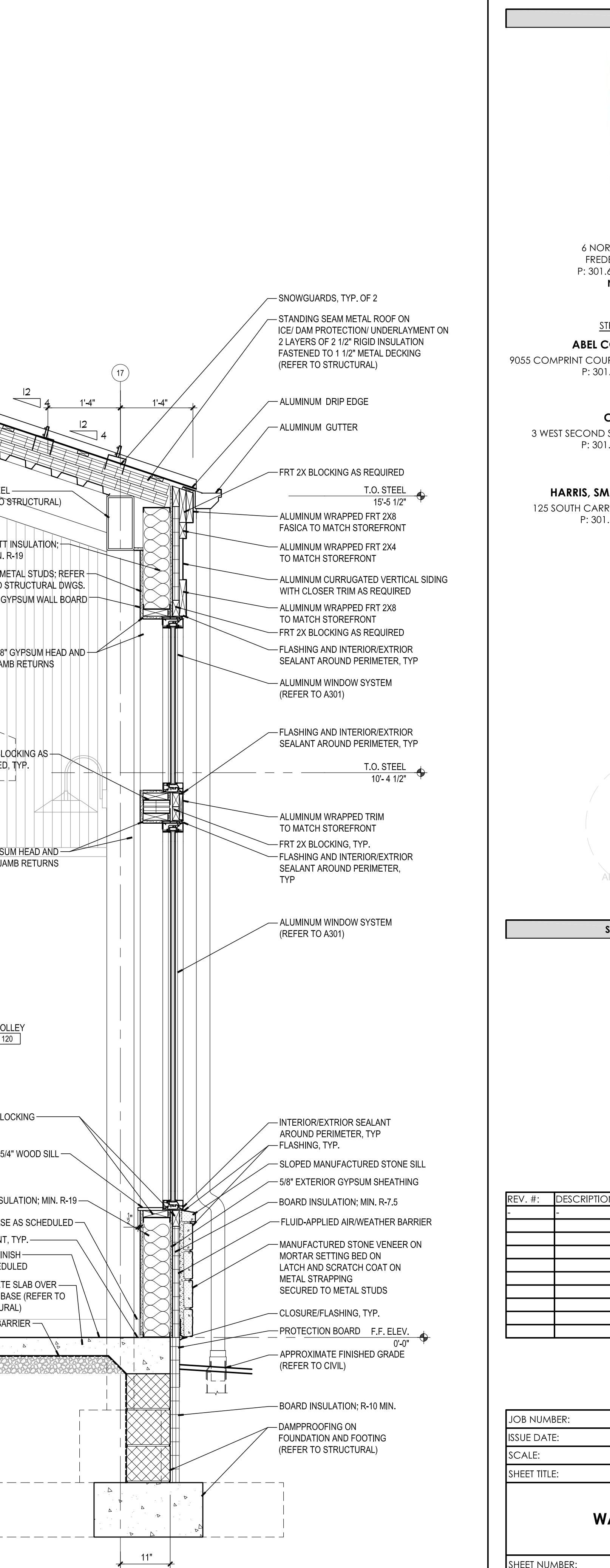
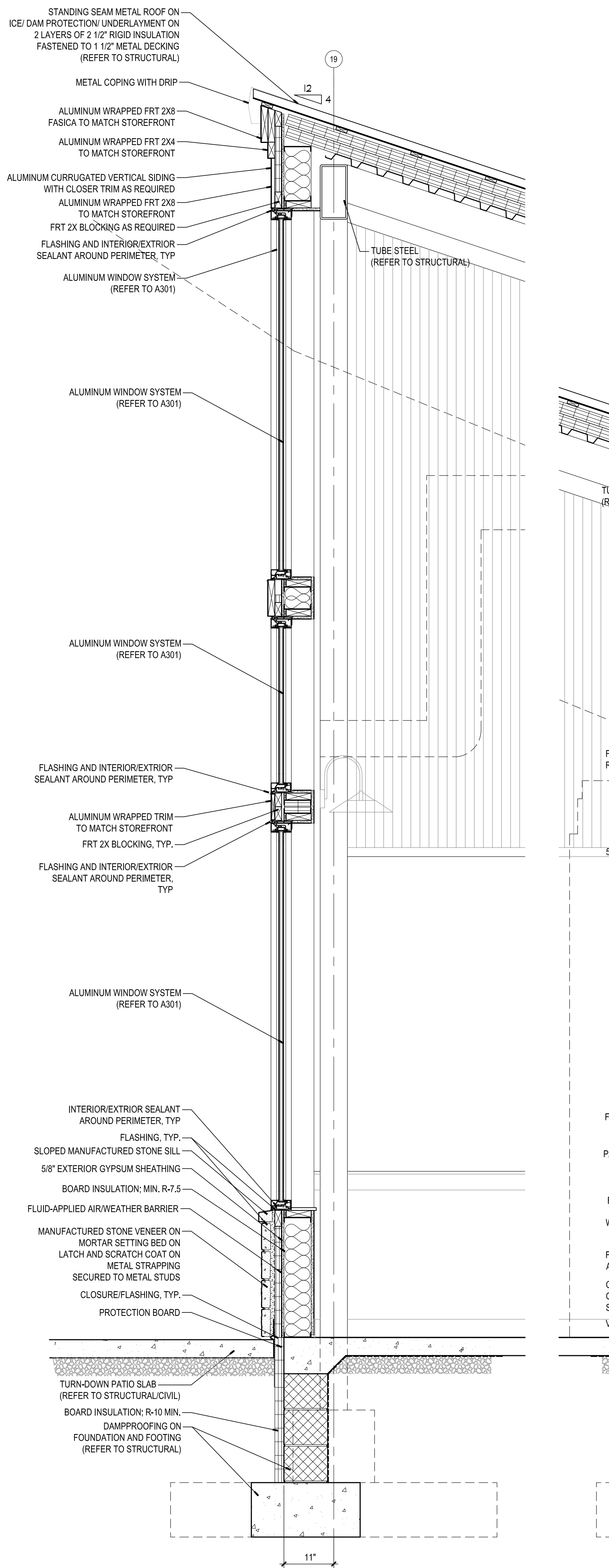
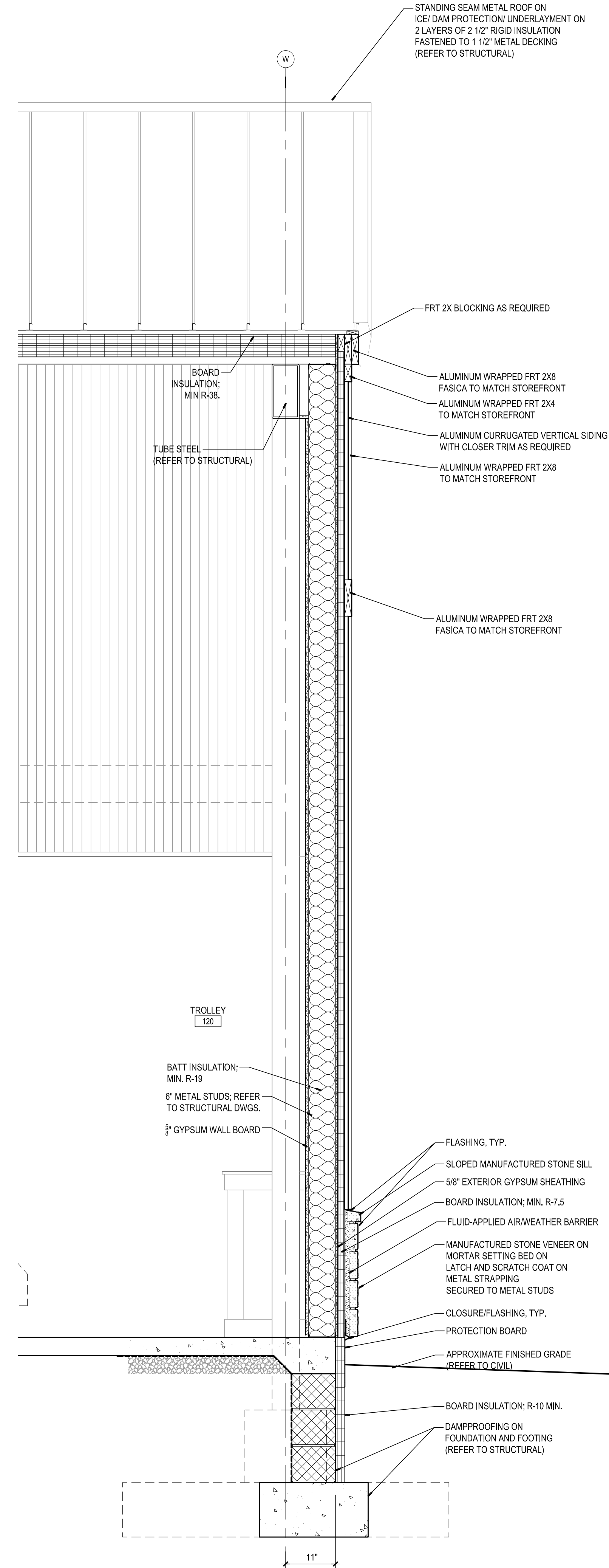
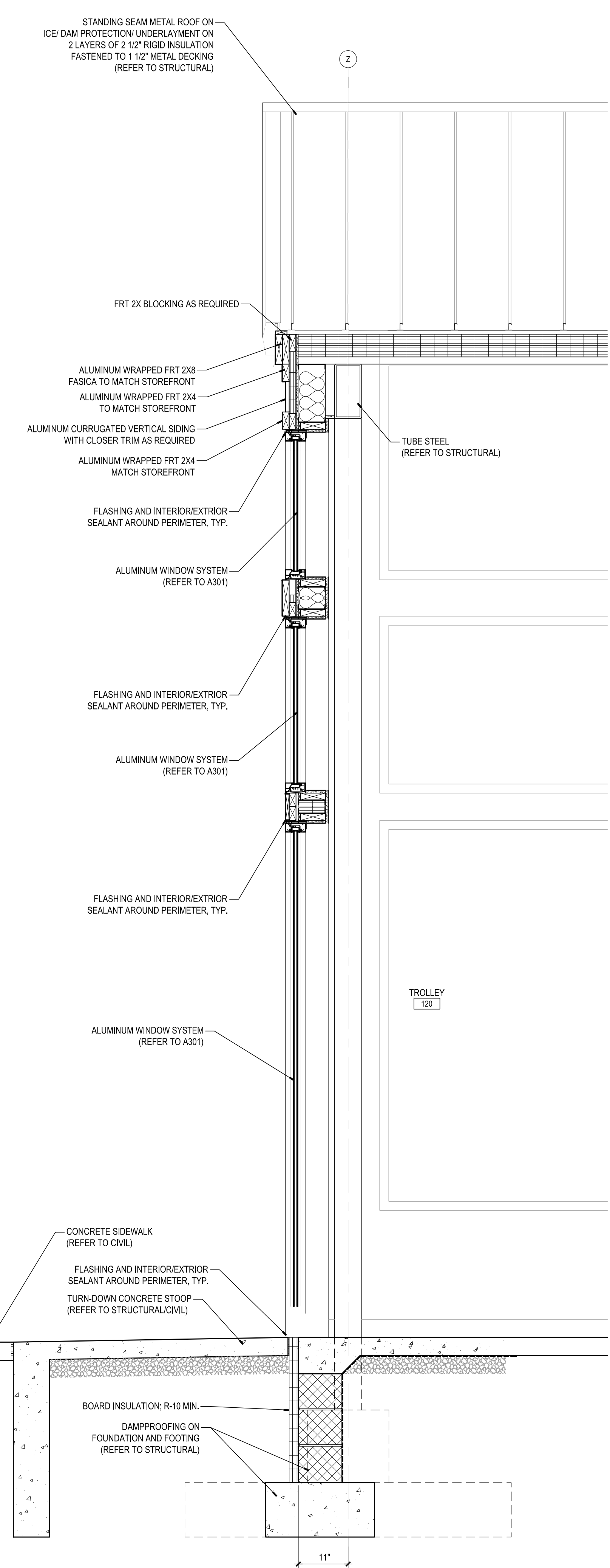
JOB NUMBER: 17905
ISSUE DATE: 10 APRIL 2018
SCALE: AS INDICATED

SHEET TITLE:

WALL SECTIONS

SHEET NUMBER:

A505



MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
8 HARP PLACE
MYERSVILLE, MD 21773

PROJECT OWNER
FREDERICK COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

PROJECT TEAM

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CJL ENGINEERING
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SHEET INFORMATION
KEY PLAN



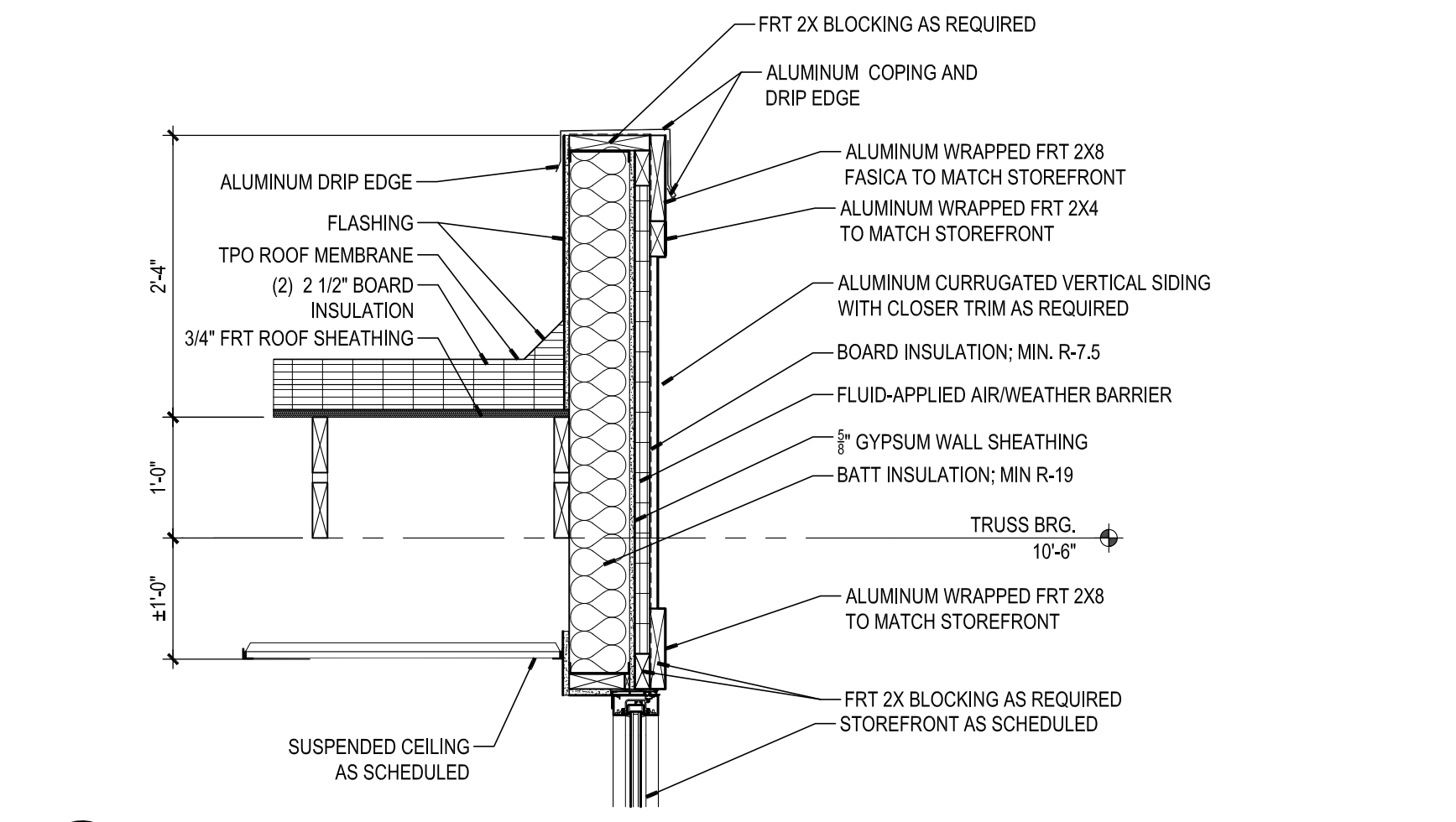
REVISIONS		
REV. #	DESCRIPTION	DATE

PROJECT STATUS

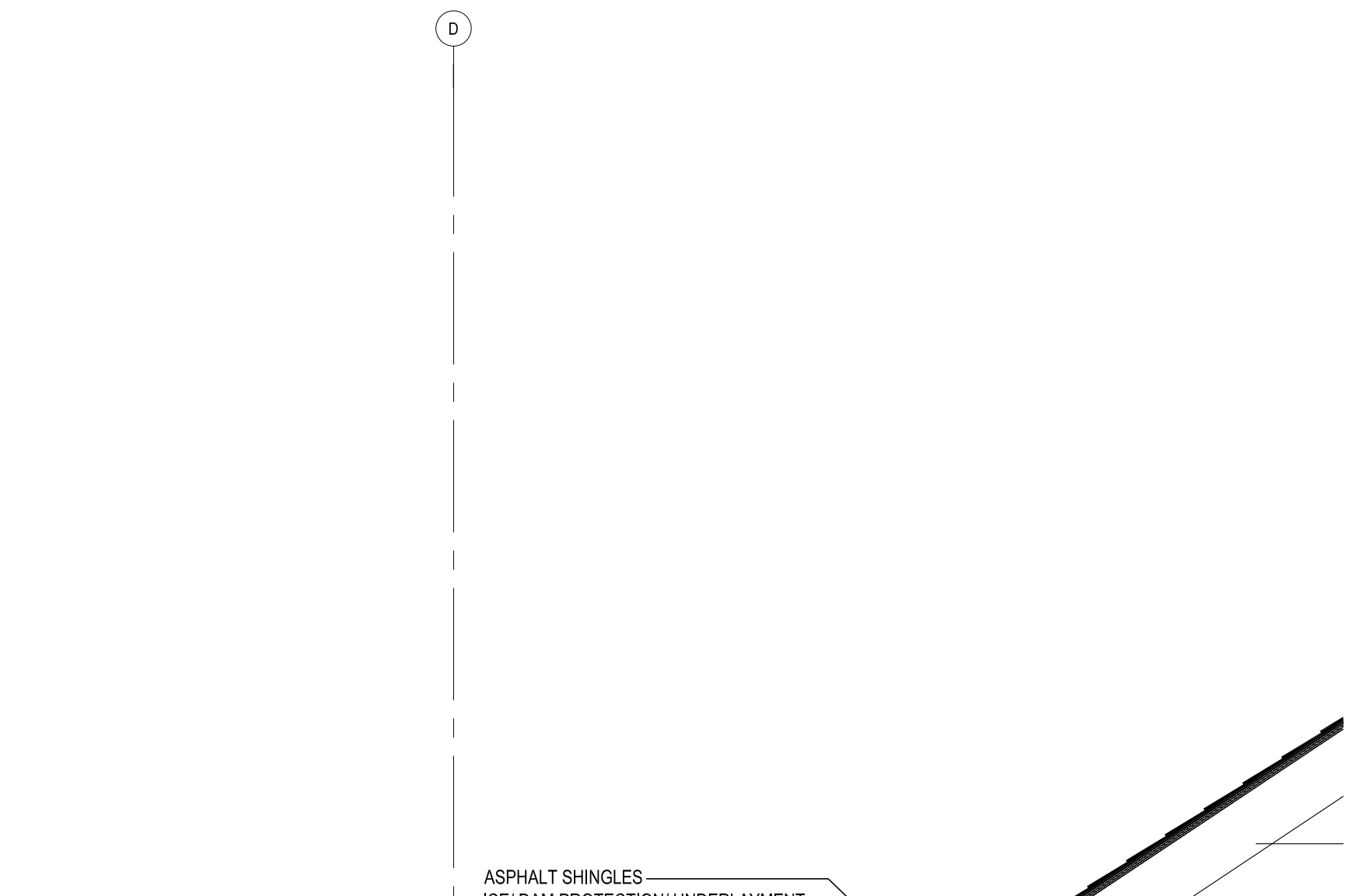
JOB NUMBER:	17905
ISSUE DATE:	10 APRIL 2018
SCALE:	AS INDICATED
SHEET TITLE:	

WALL SECTIONS

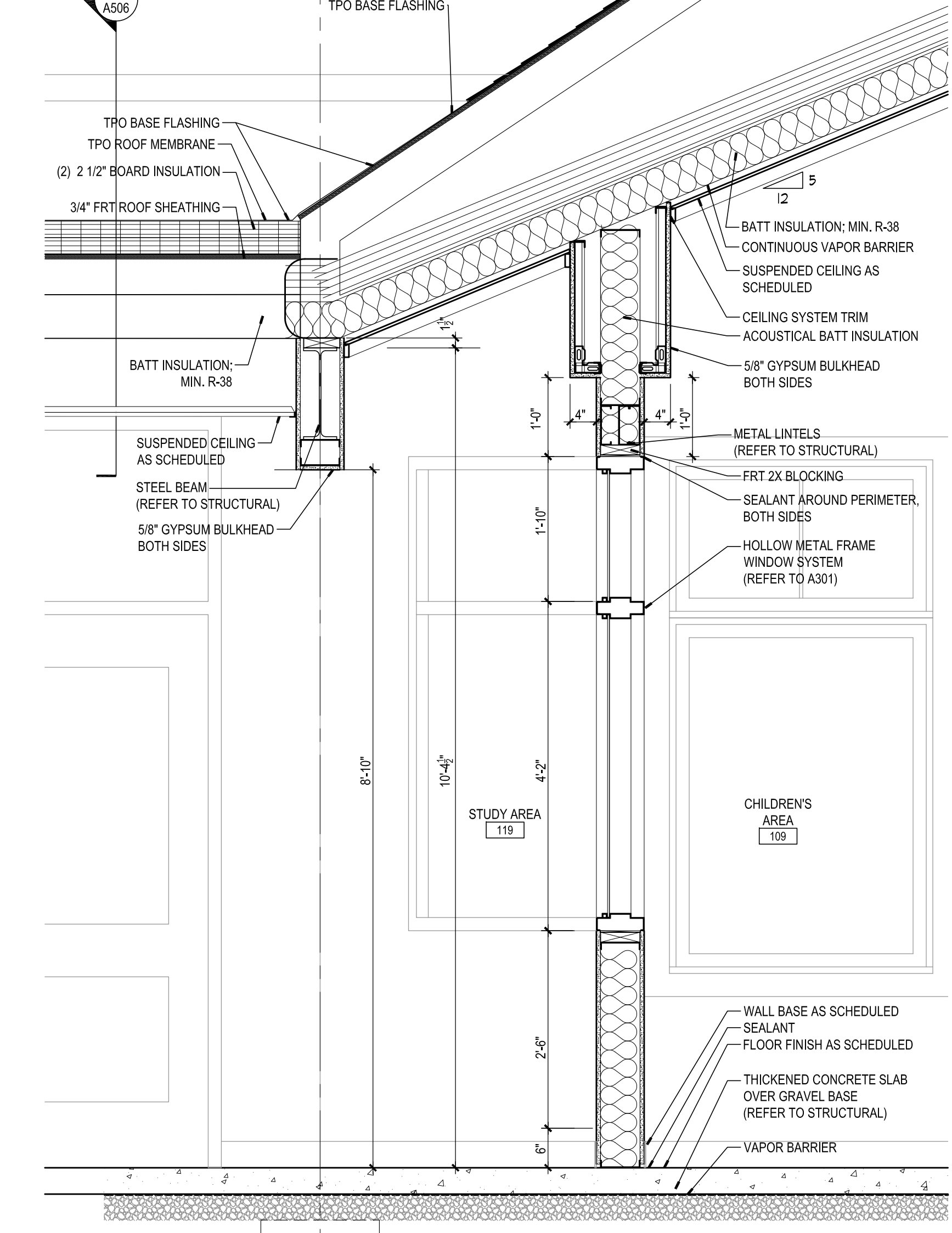
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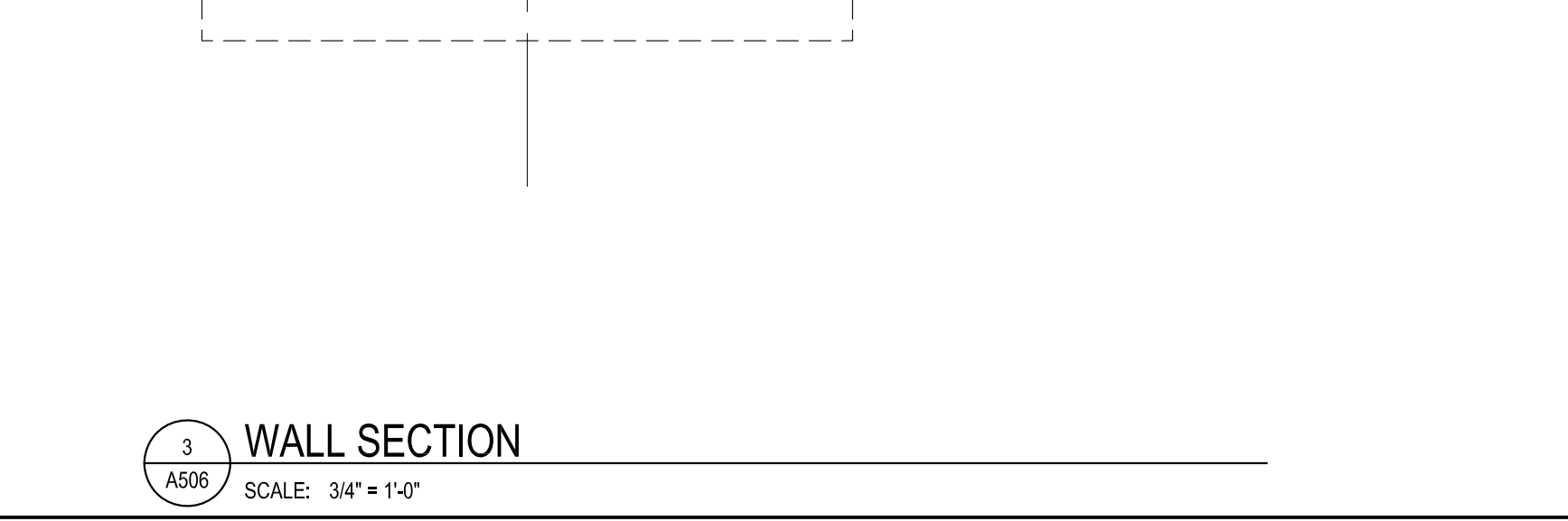
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SCALE: 3/4" = 1'-0"



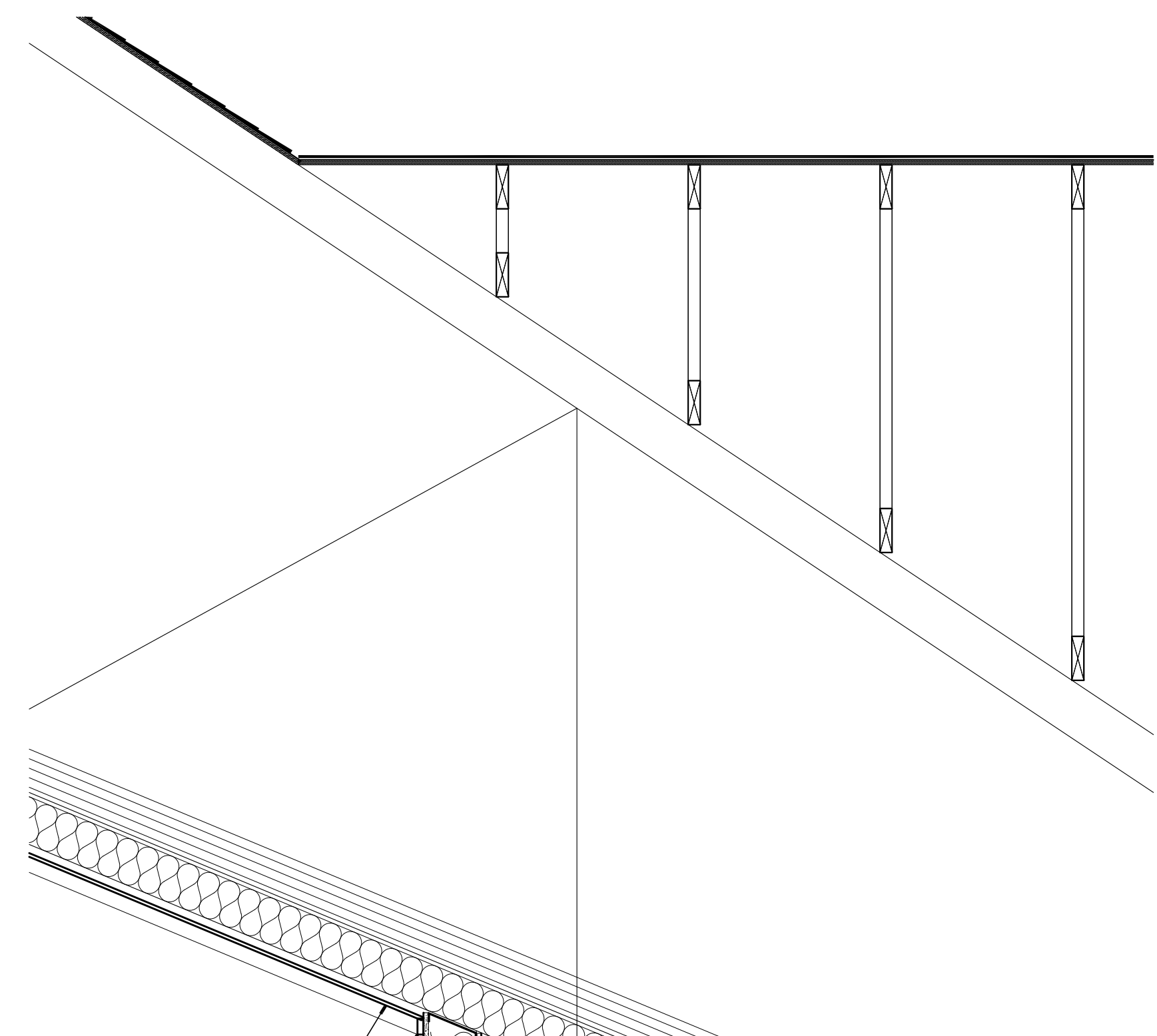
3 WALL SECTION
SCALE: 3/4" = 1'-0"



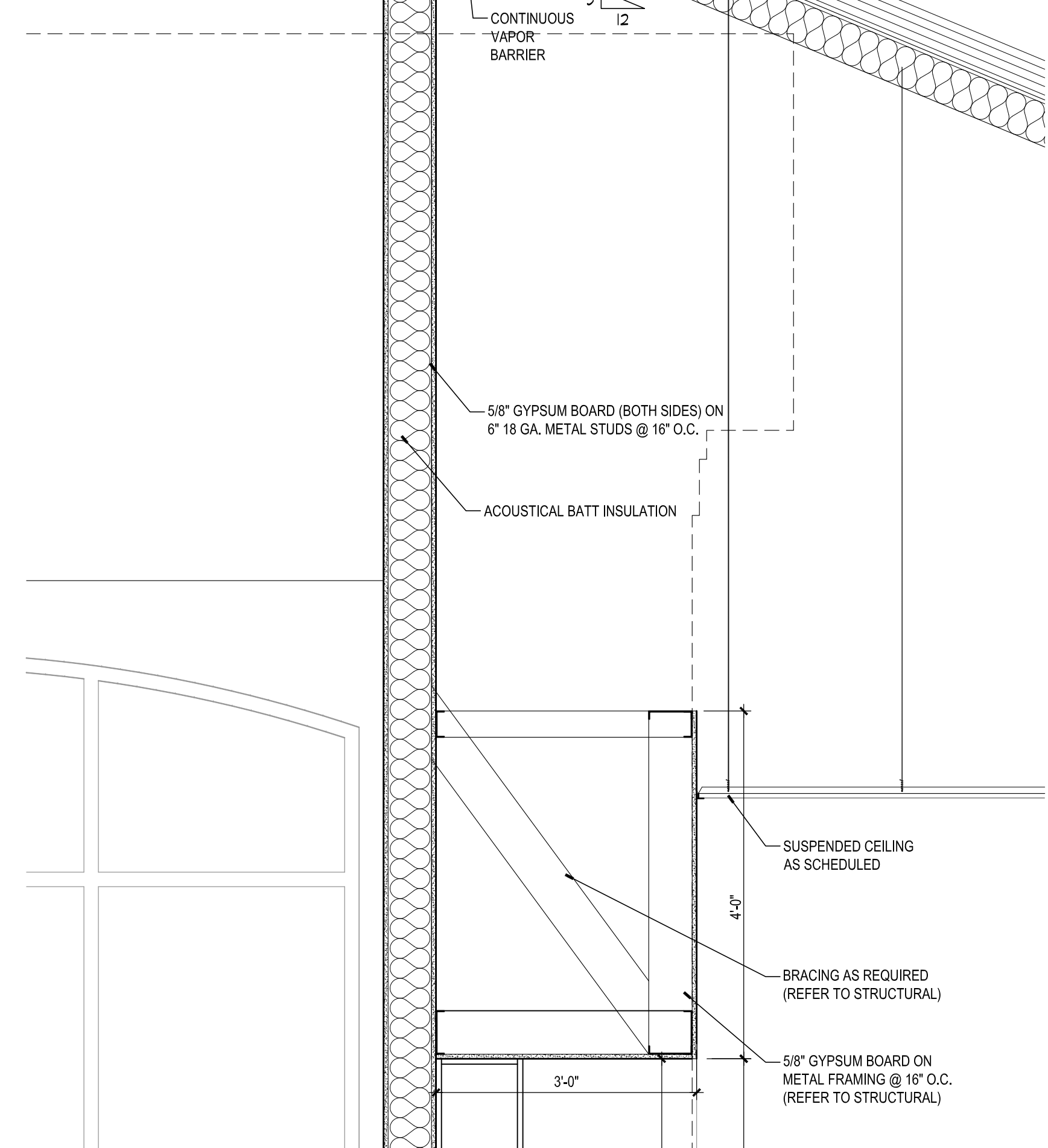
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SCALE: 3/4" = 1'-0"



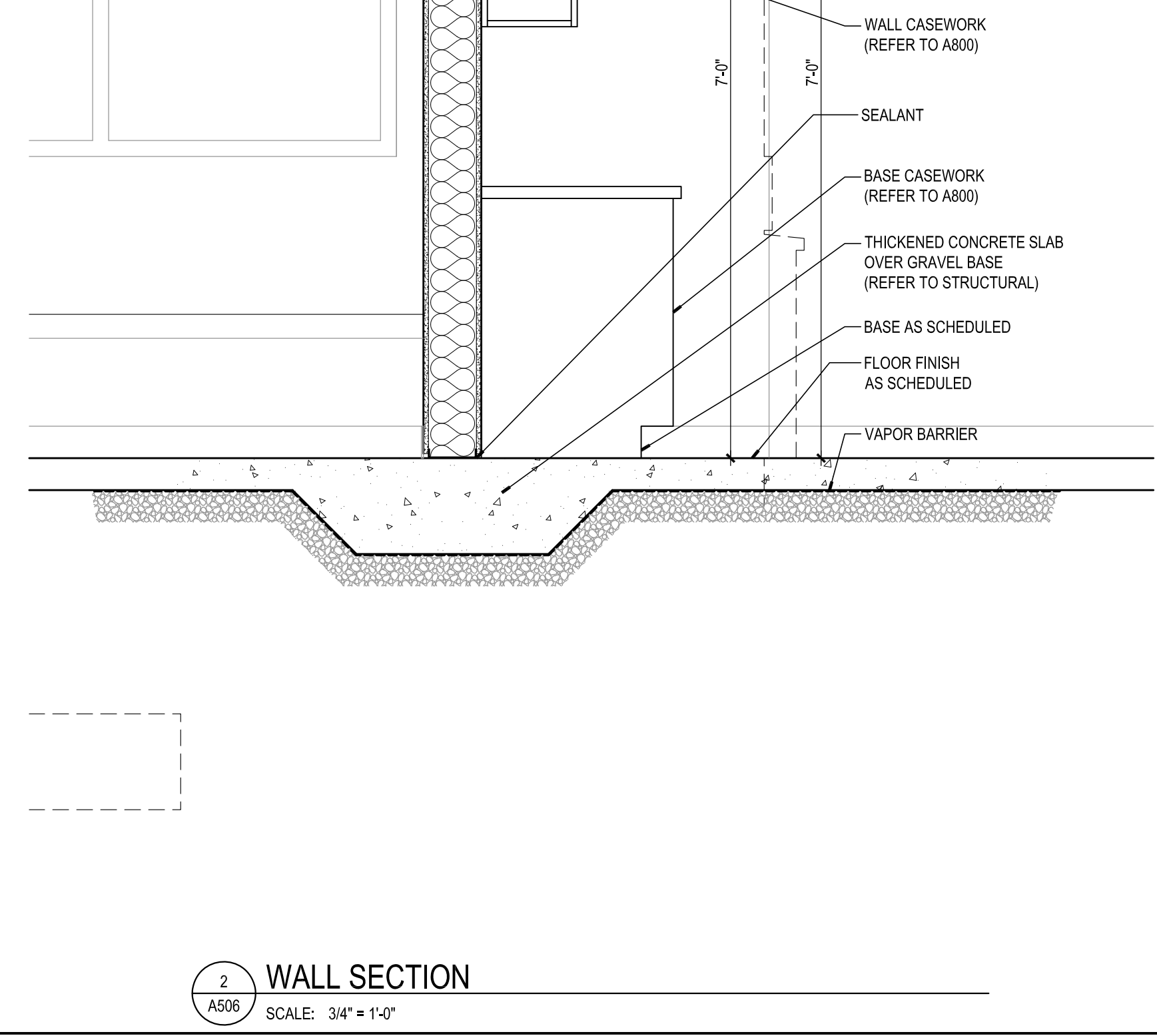
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SCALE: 3/4" = 1'-0"



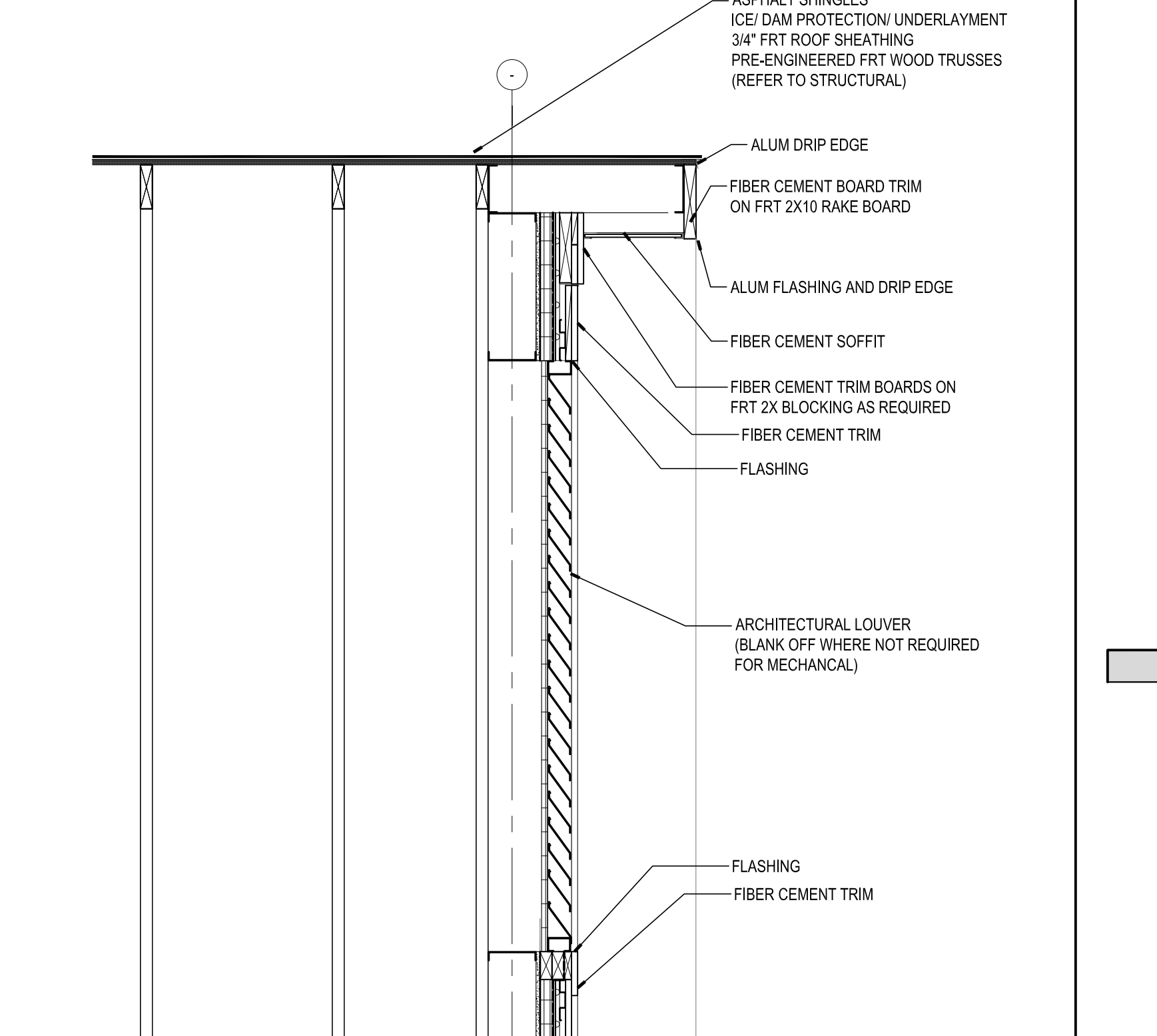
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SCALE: 3/4" = 1'-0"



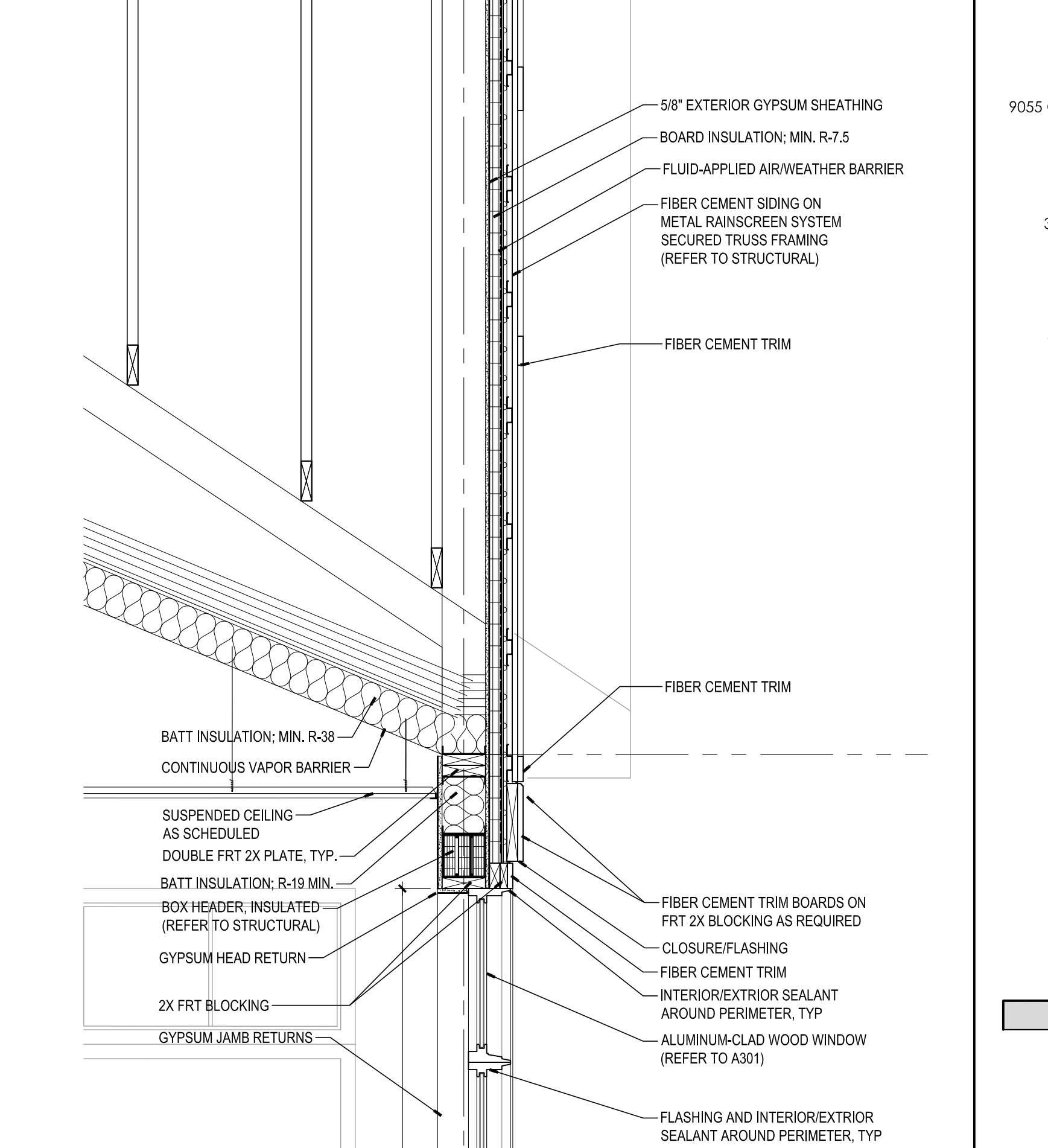
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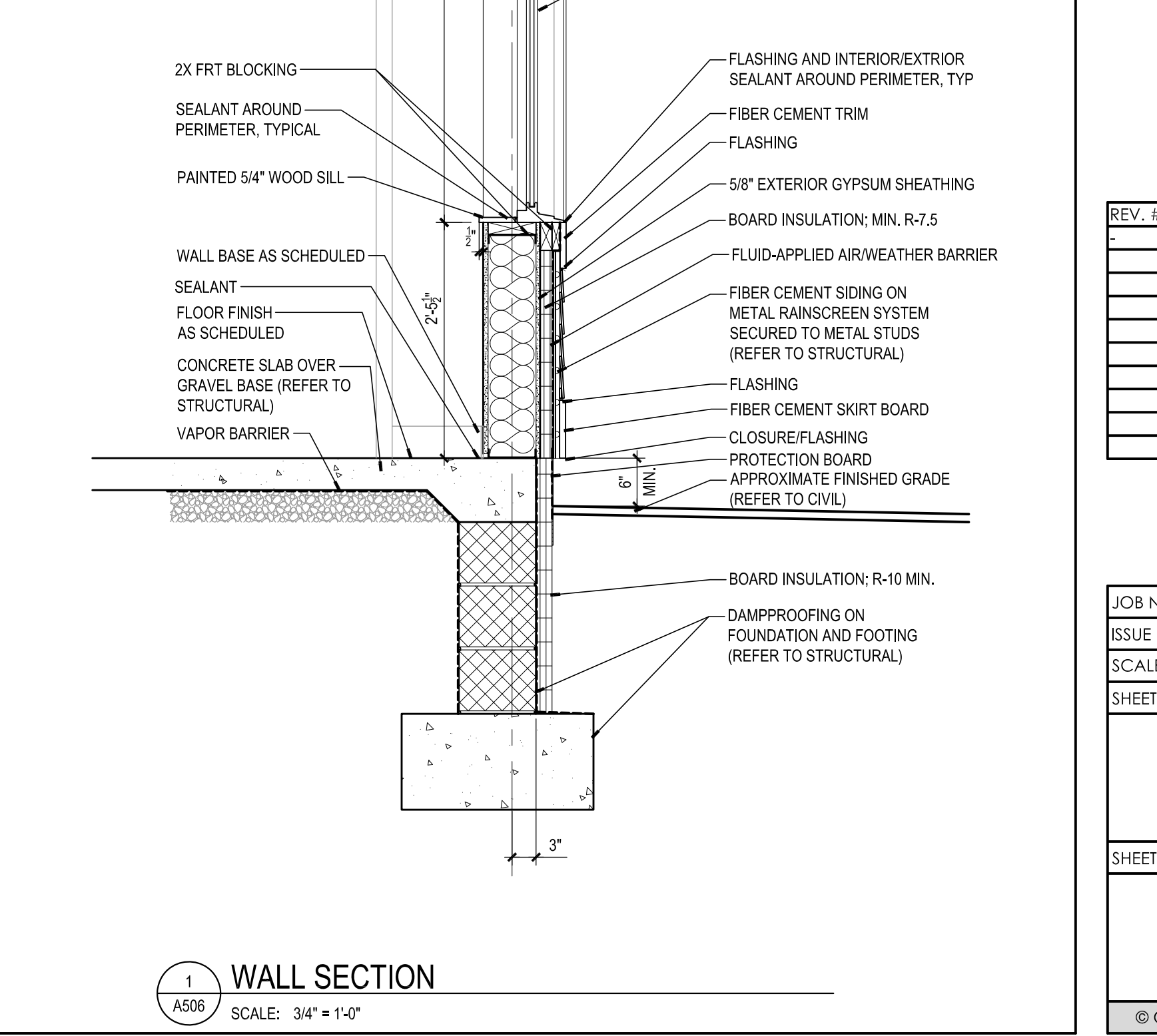
1 WALL SECTION
SCALE: 3/4" = 1'-0"



1 WALL SECTION
SCALE: 3/4" = 1'-0"



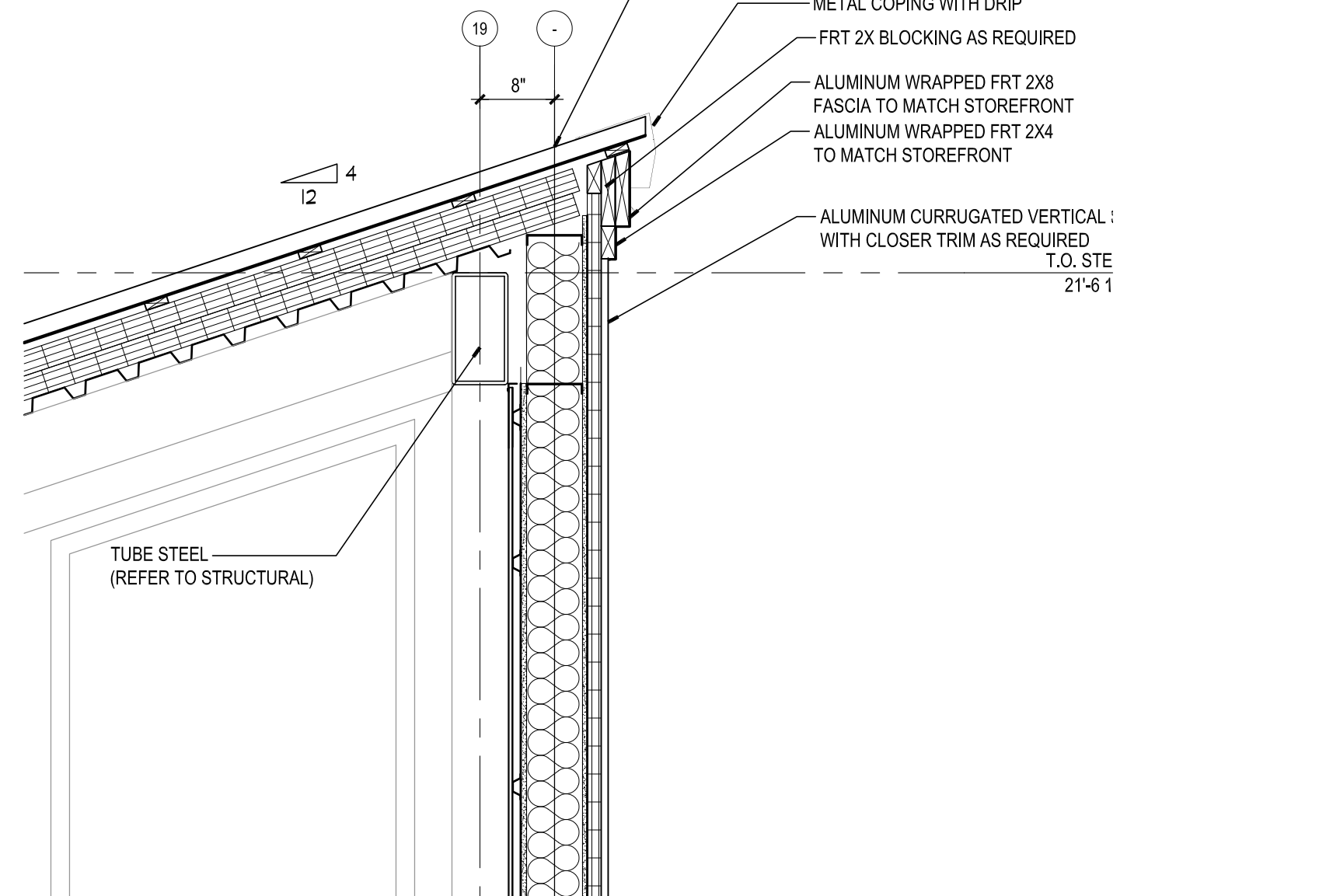
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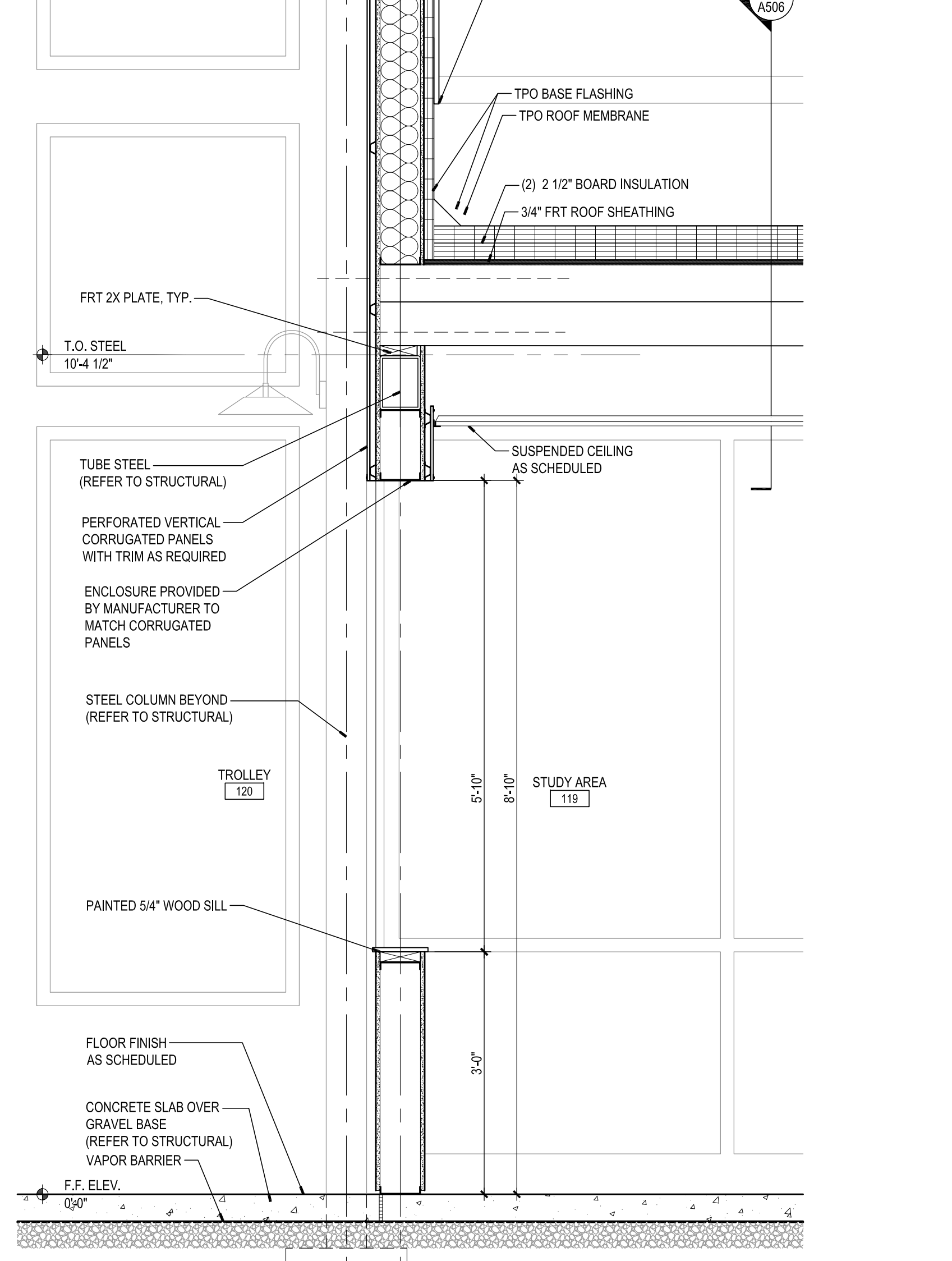
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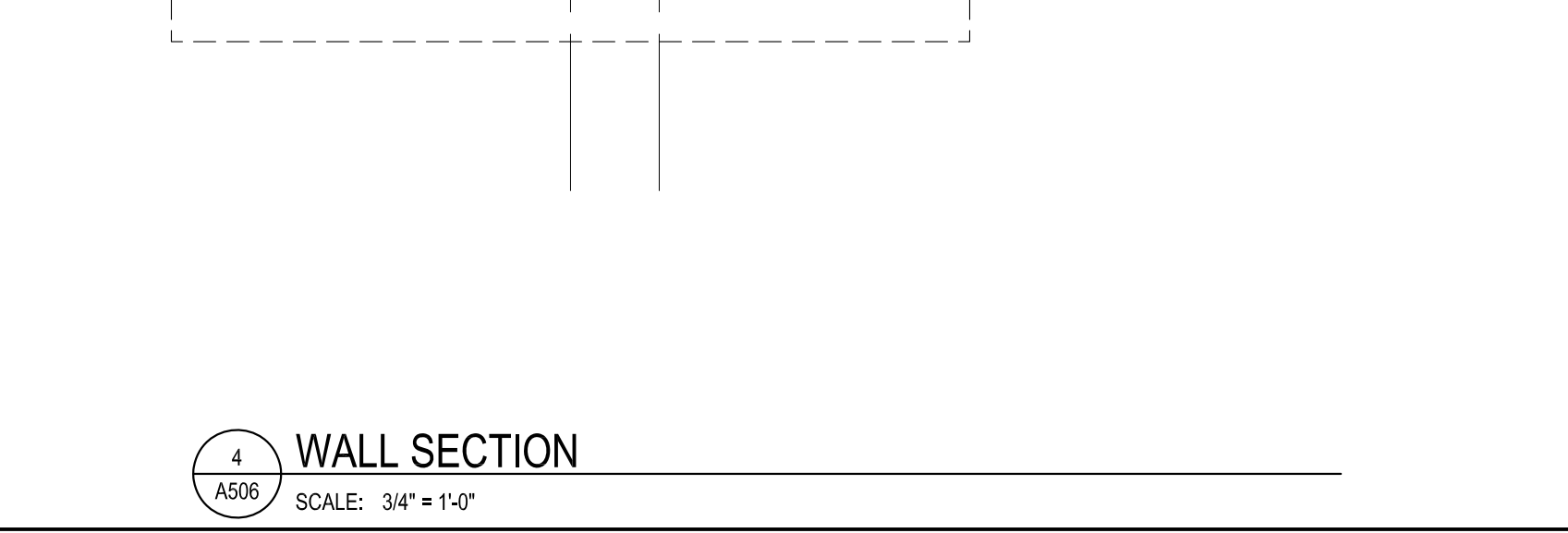
5 WALL SECTION
SCALE: 3/4" = 1'-0"



5 WALL SECTION
SCALE: 3/4" = 1'-0"



5 WALL SECTION
SCALE: 3/4" = 1'-0"



5 WALL SECTION
SCALE: 3/4" = 1'-0"

MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
8 HARP PLACE
MYERSVILLE, MD 21773

PROJECT OWNER
FREDERICK COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

PROJECT TEAM

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SHEET INFORMATION

KEY PLAN

REVISIONS

REV. #	DESCRIPTION	DATE

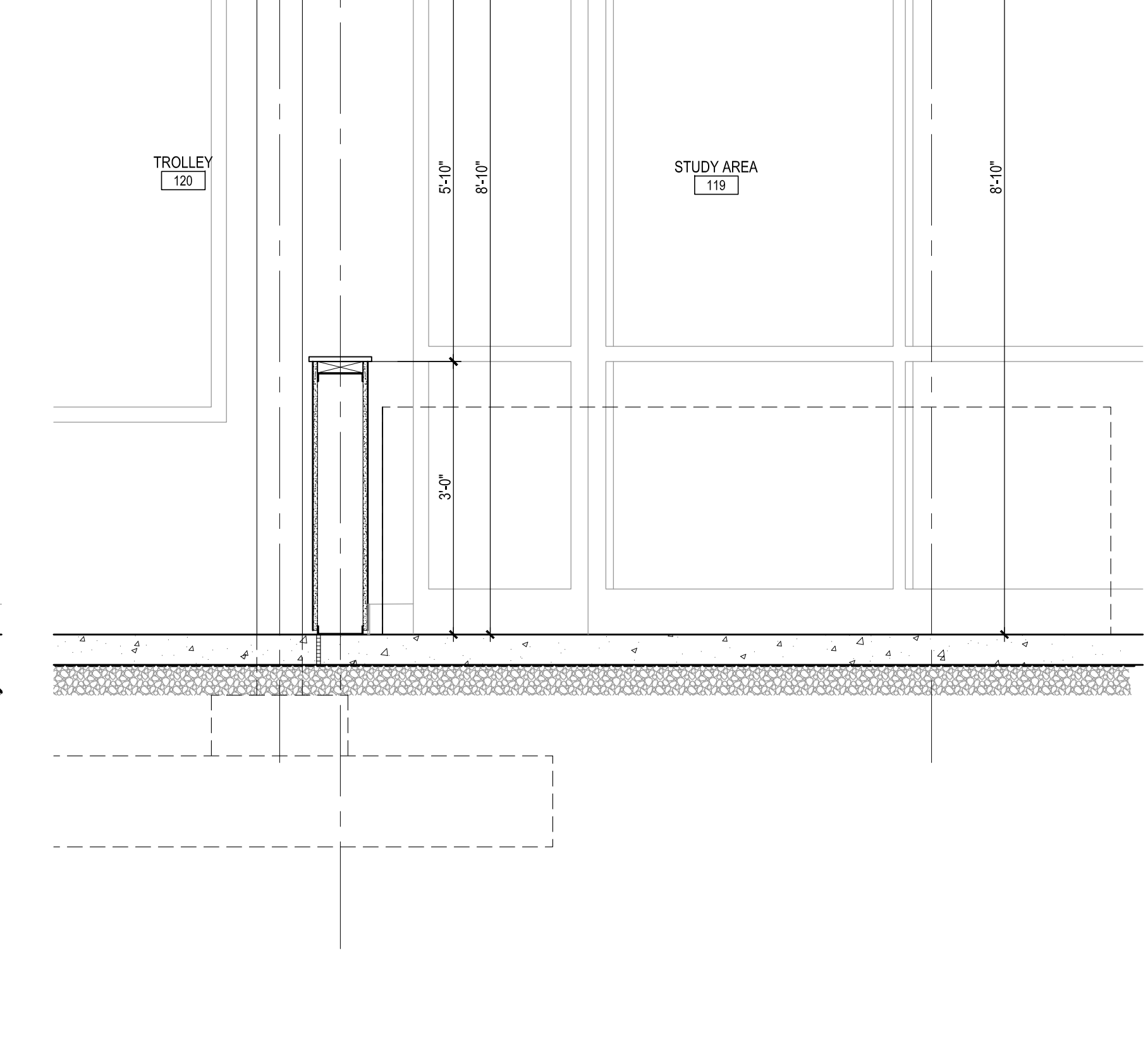
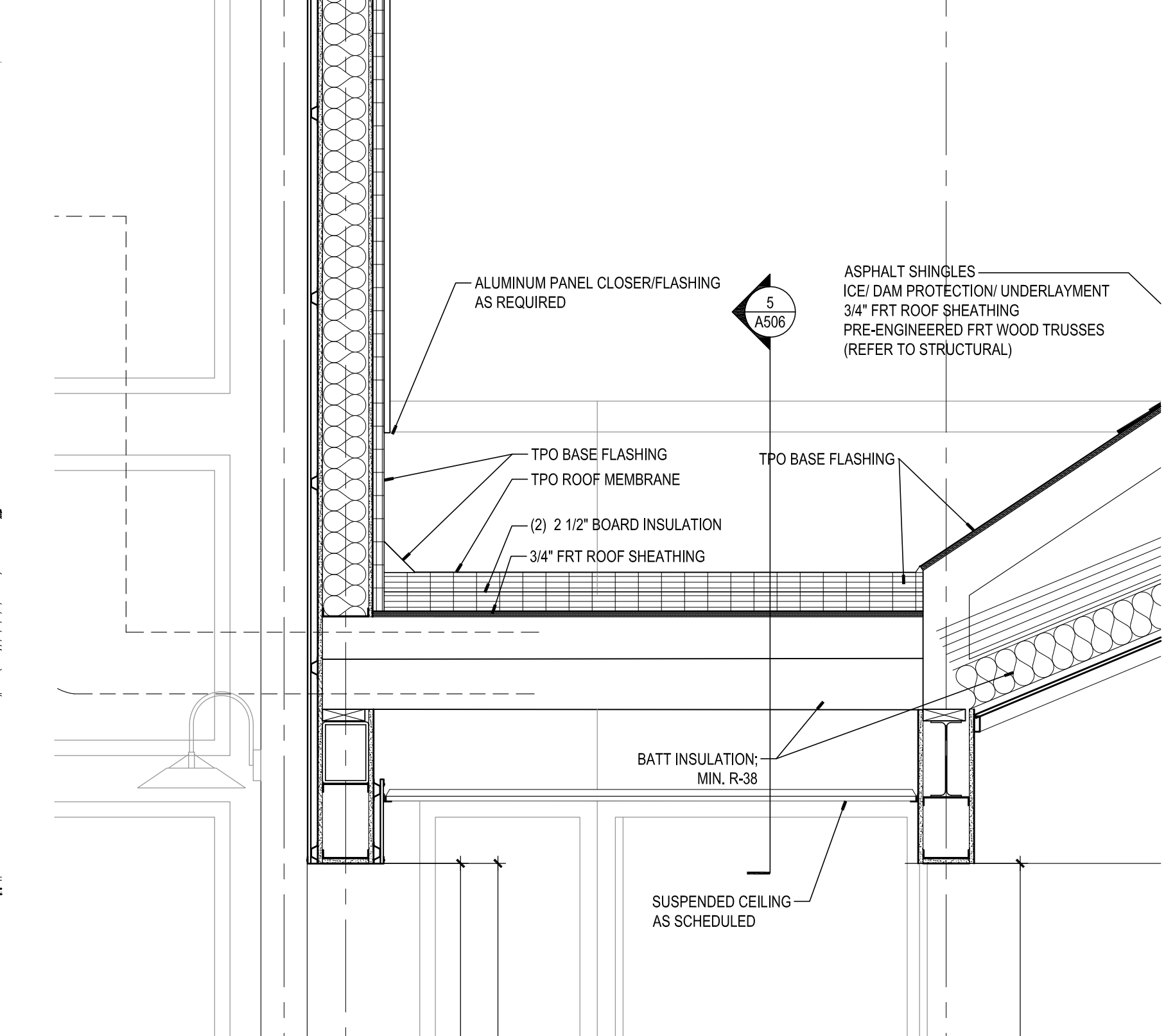
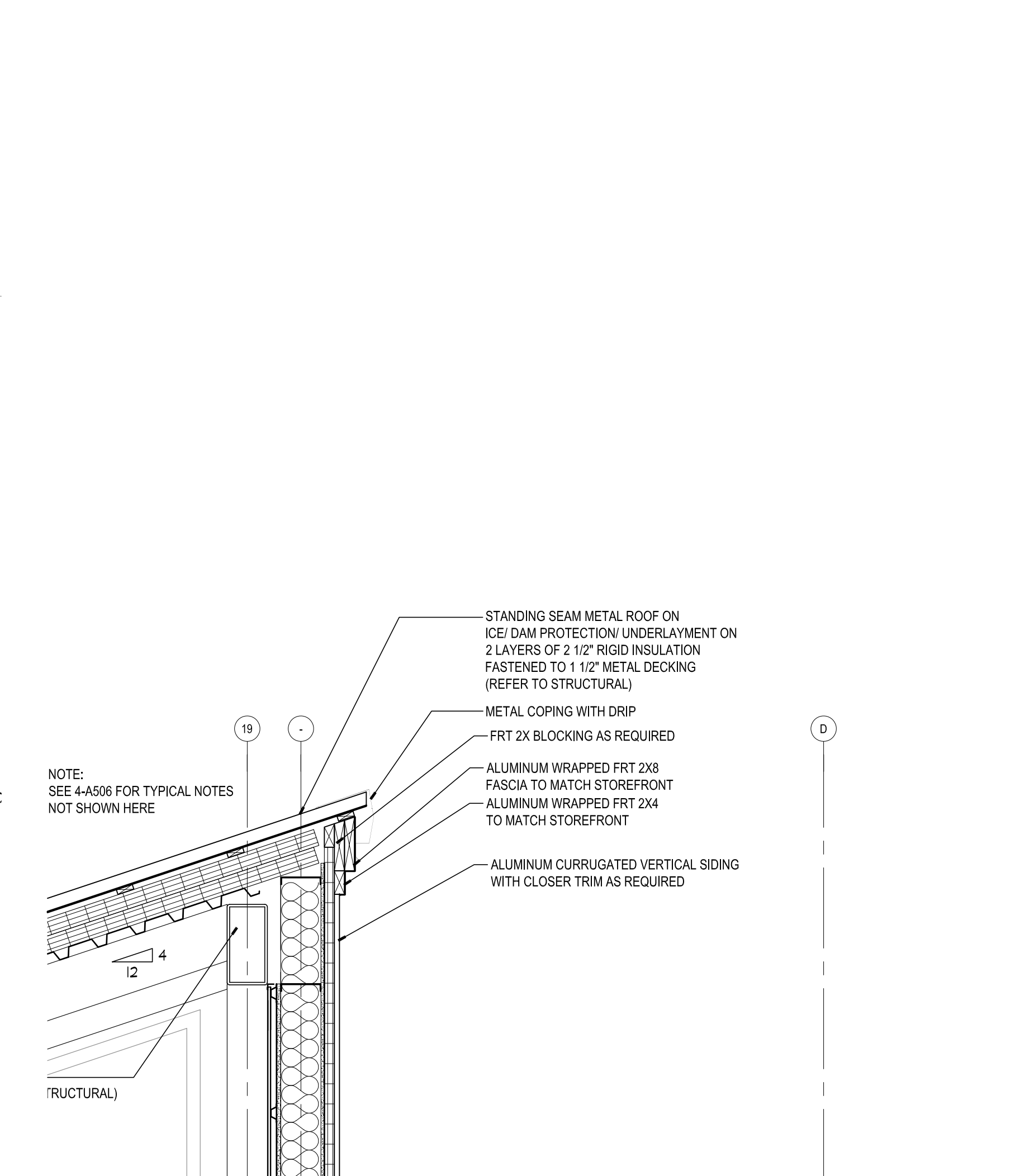
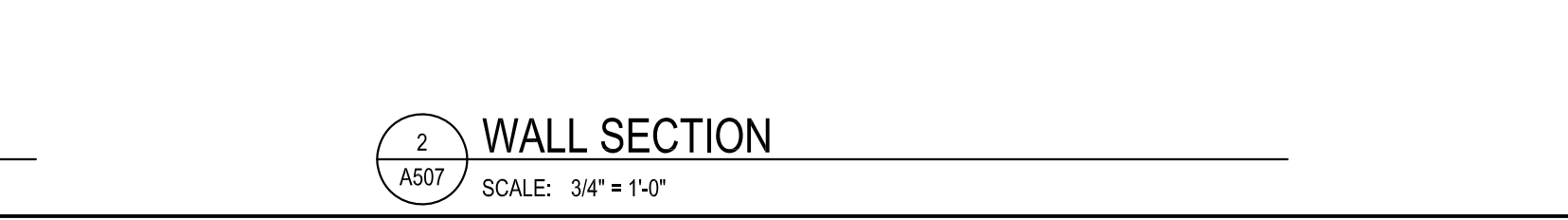
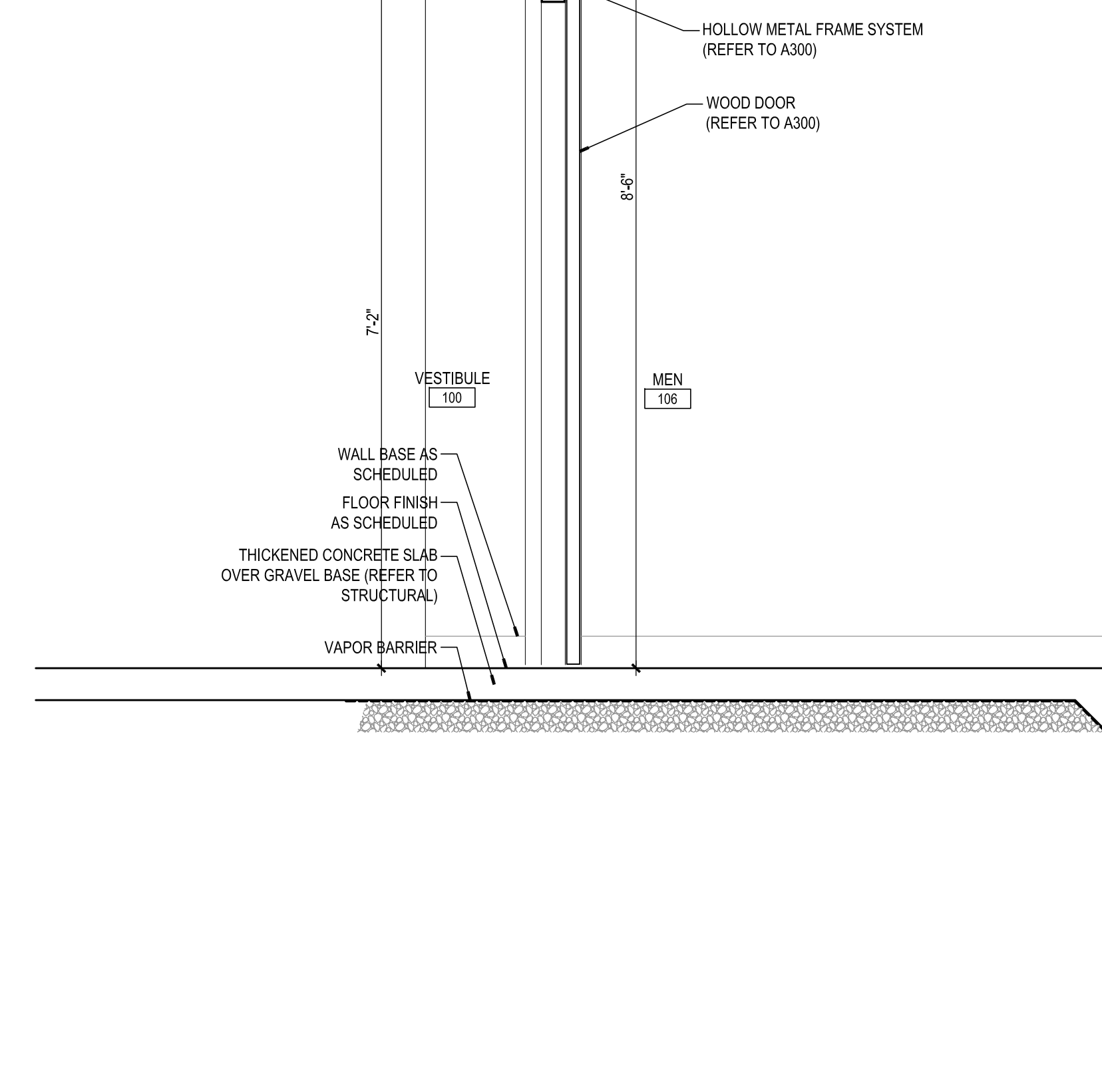
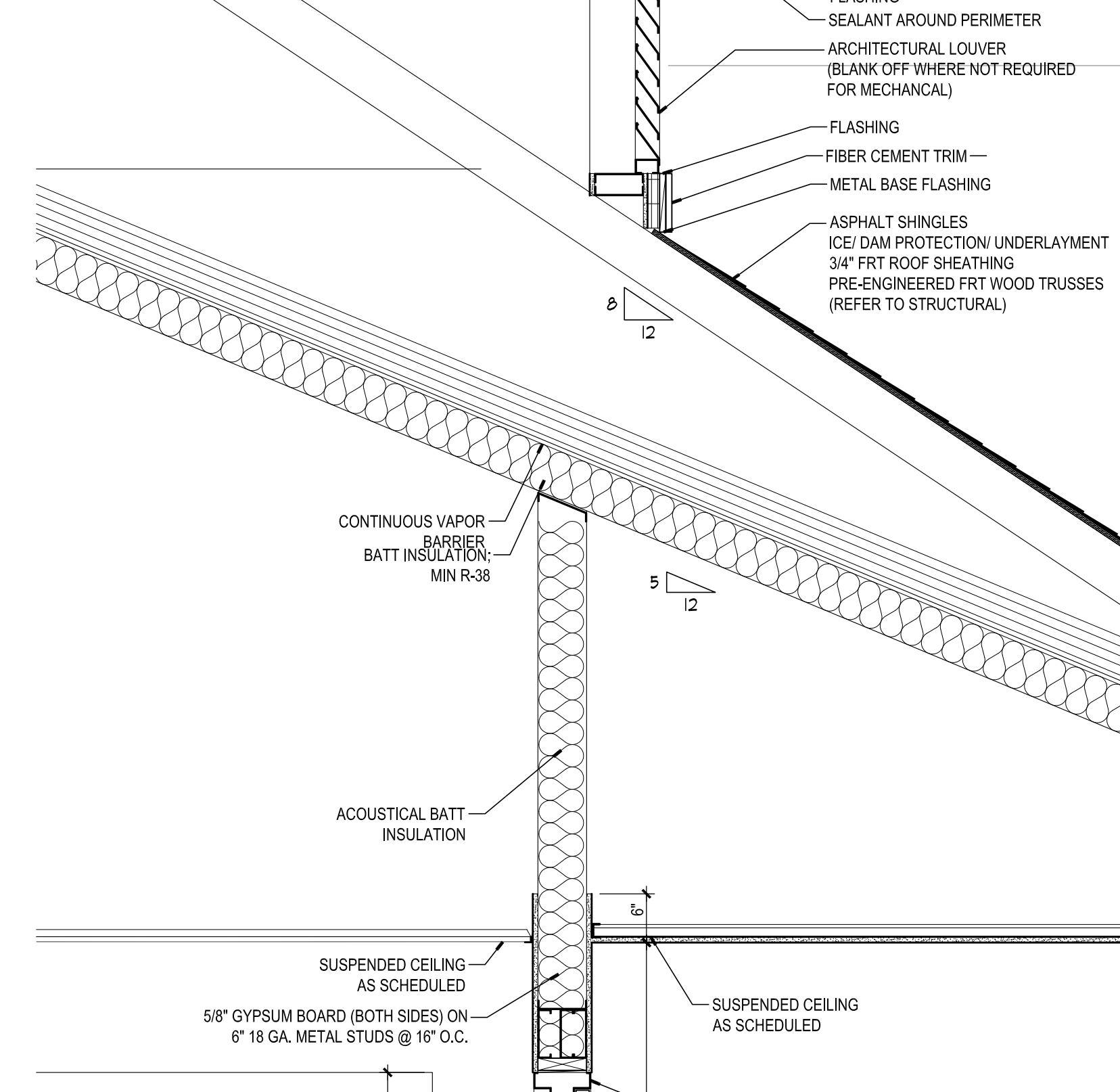
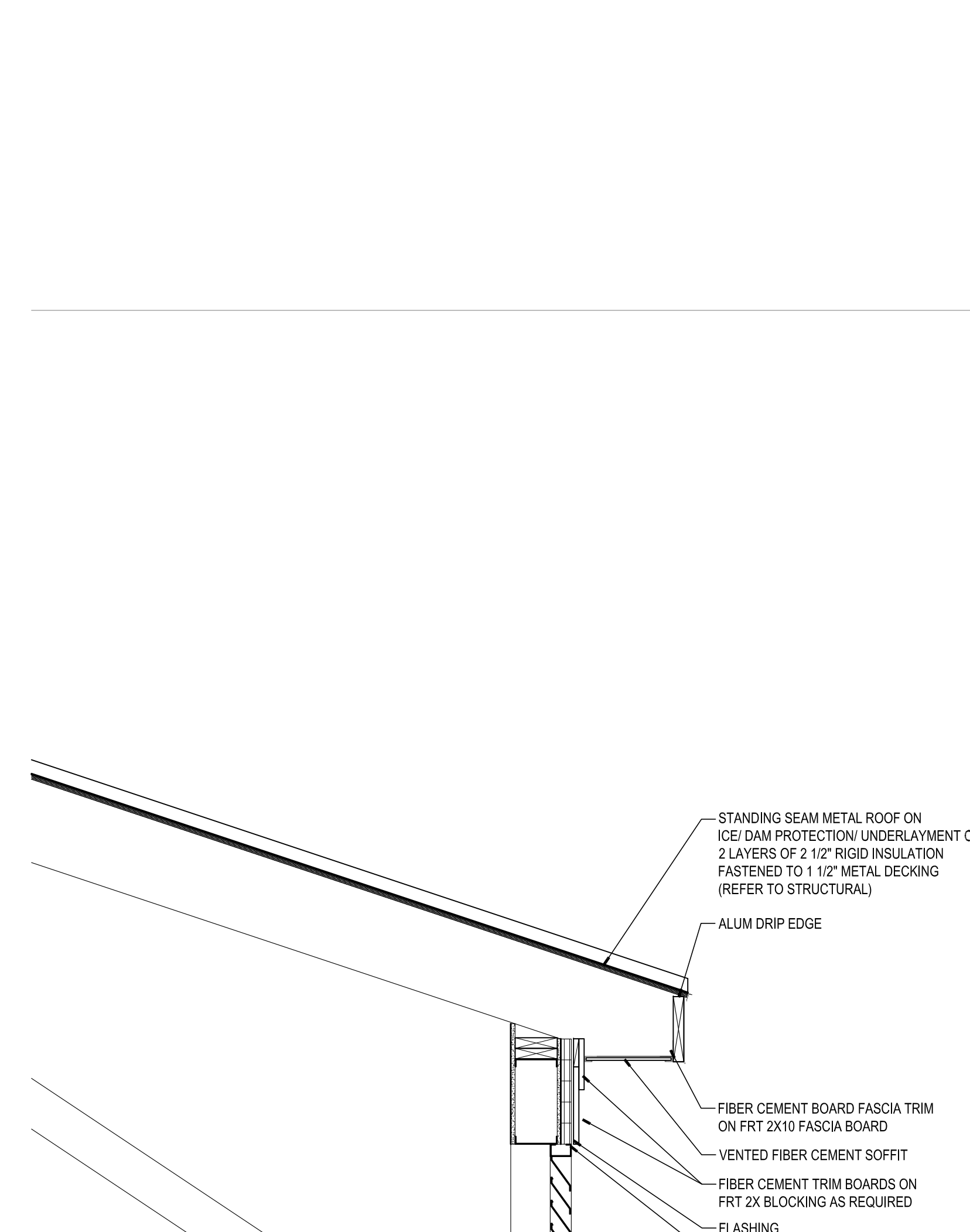
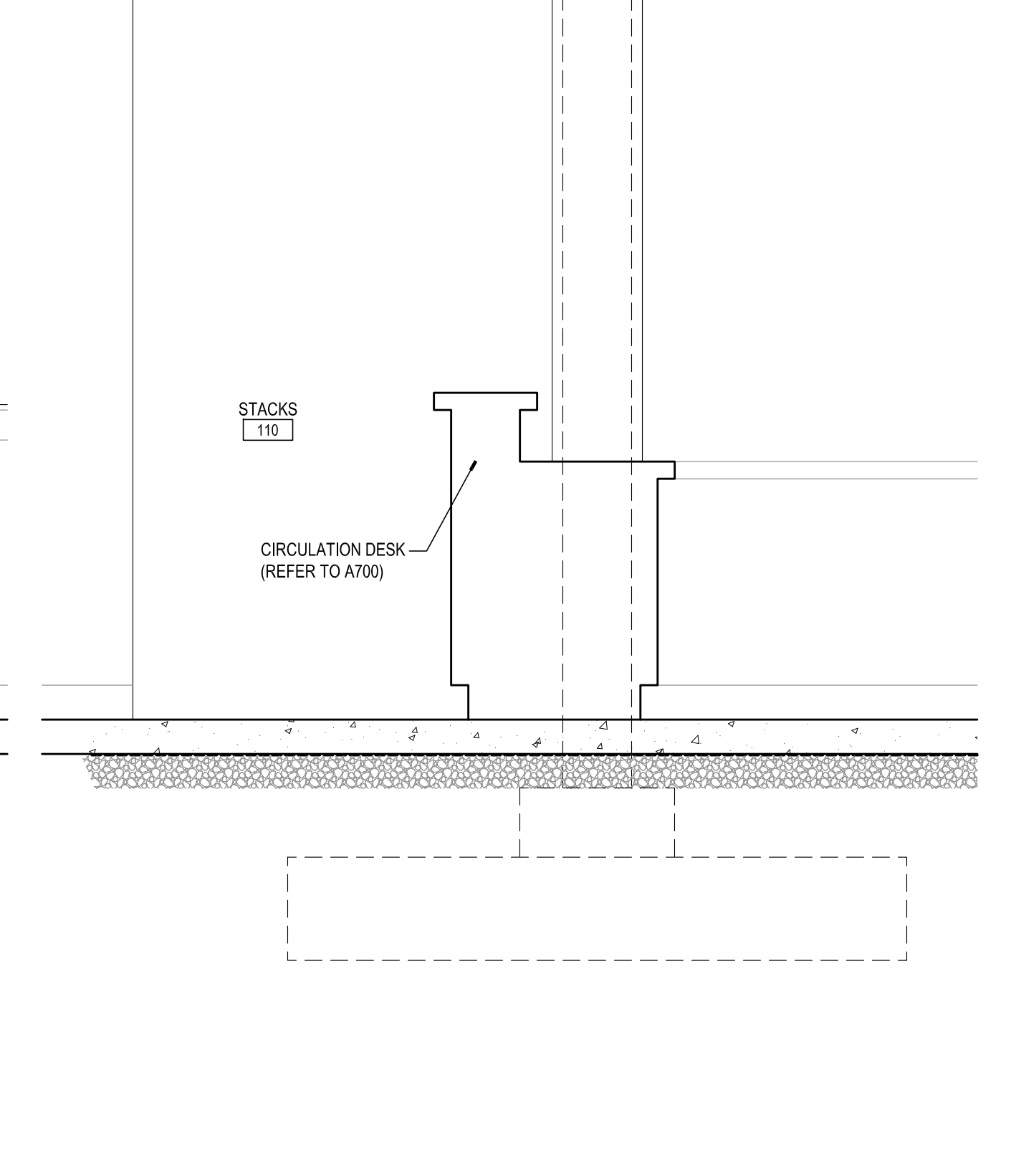
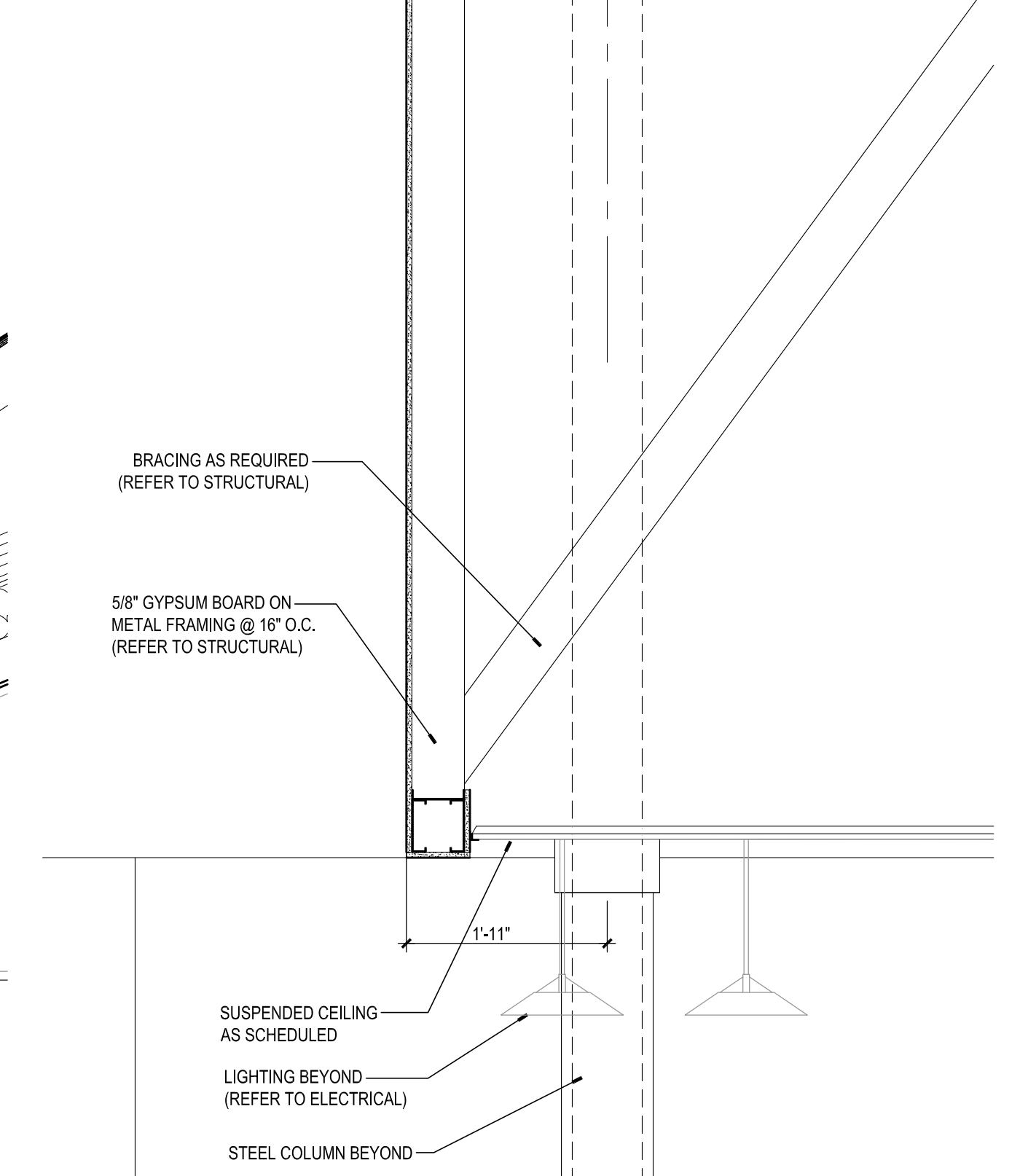
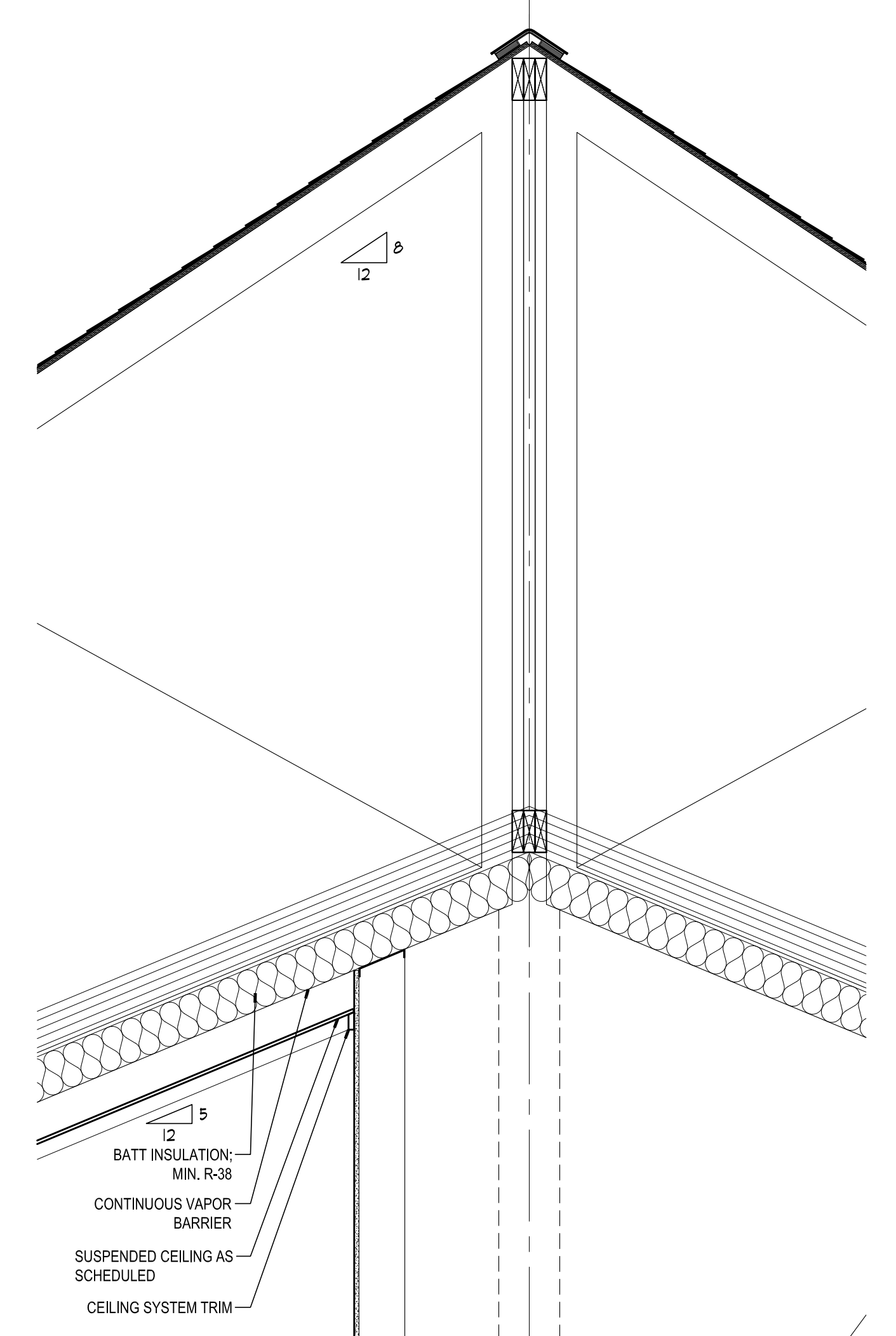
PROJECT STATUS

JOB NUMBER:	17905
ISSUE DATE:	10 APRIL 2018
SCALE:	AS INDICATED
SHEET TITLE:	

WALL SECTIONS

SHEET NUMBER:

A507



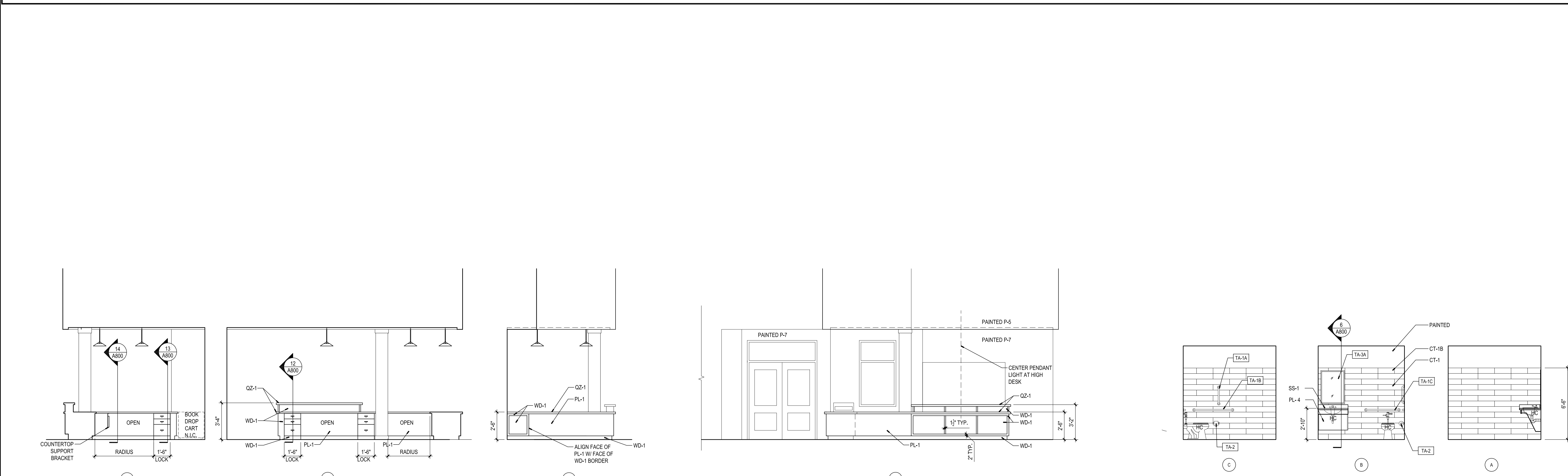
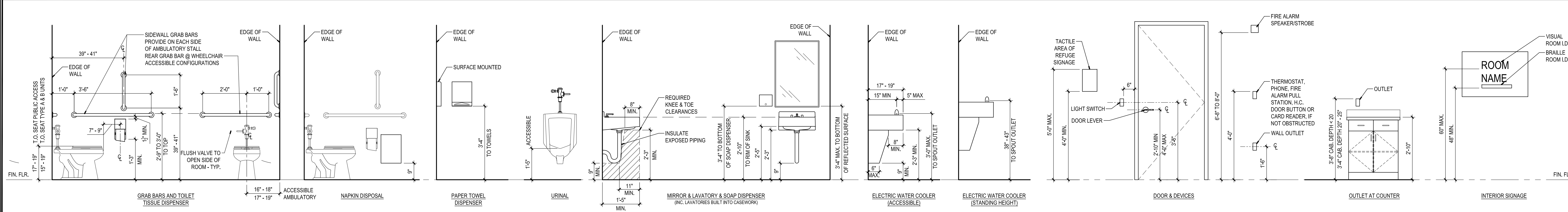
4 WALL SECTION
SCALE: 3/4" = 1'-0"

3 WALL SECTION
SCALE: 3/4" = 1'-0"

2 WALL SECTION
SCALE: 3/4" = 1'-0"

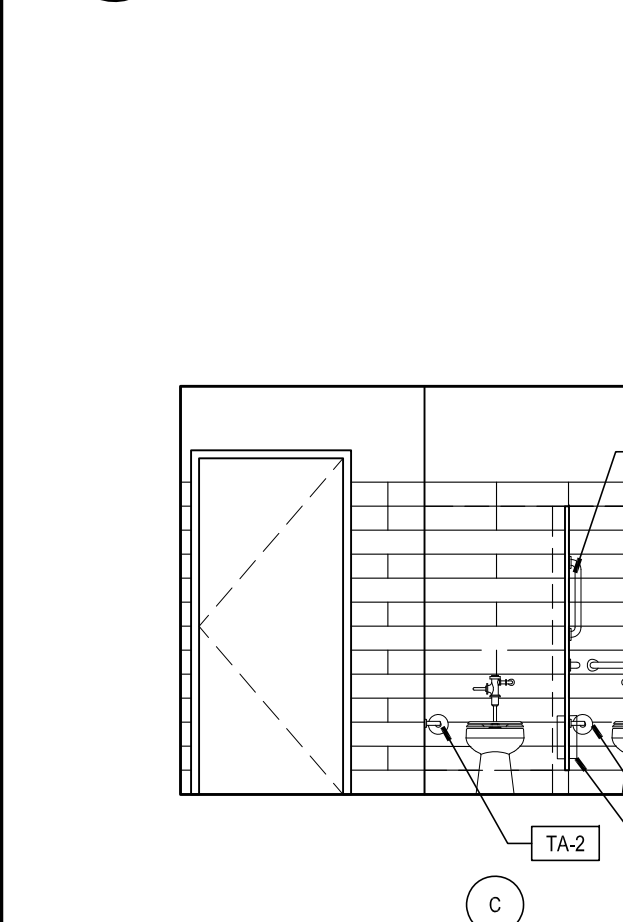
1 WALL SECTION
SCALE: 3/4" = 1'-0"

TYPICAL MOUNTING HEIGHT KEY (N.T.S.)
NOTE: ALL DIMS TO WALL OR FLOOR SURFACES ARE TO FACE OF FINISH

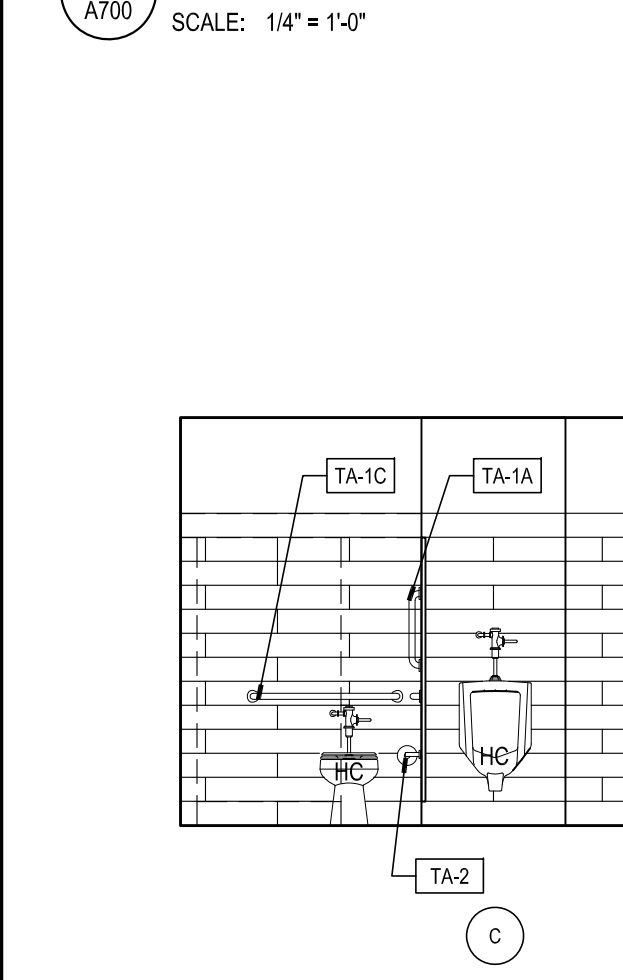


6 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

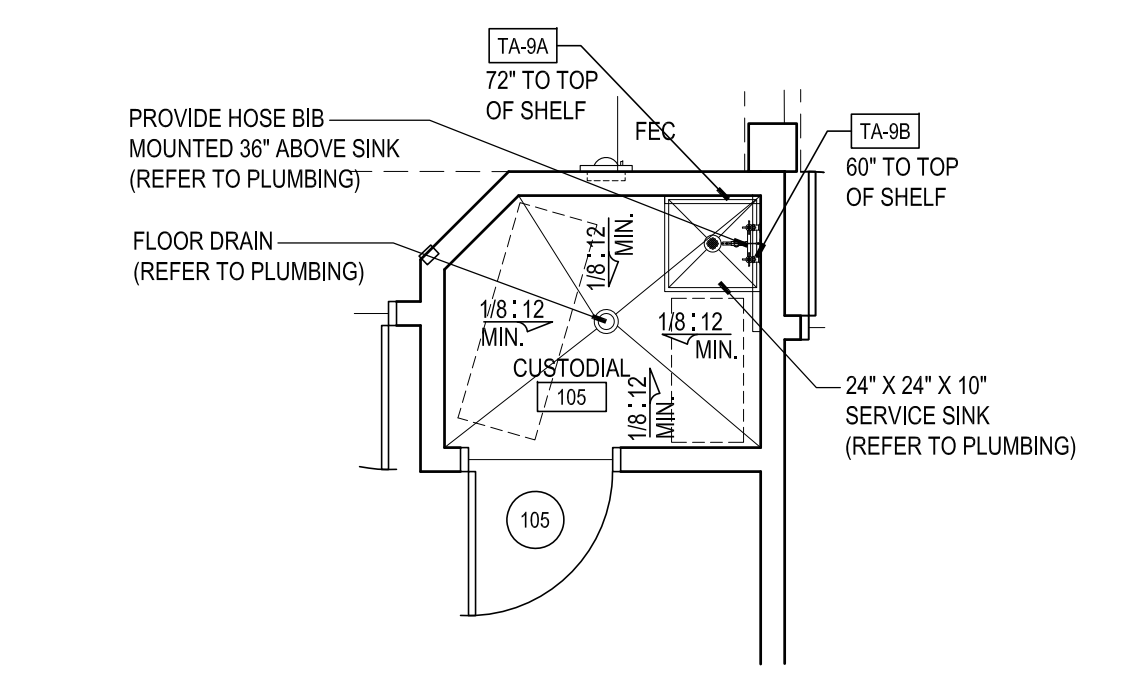
5 INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"



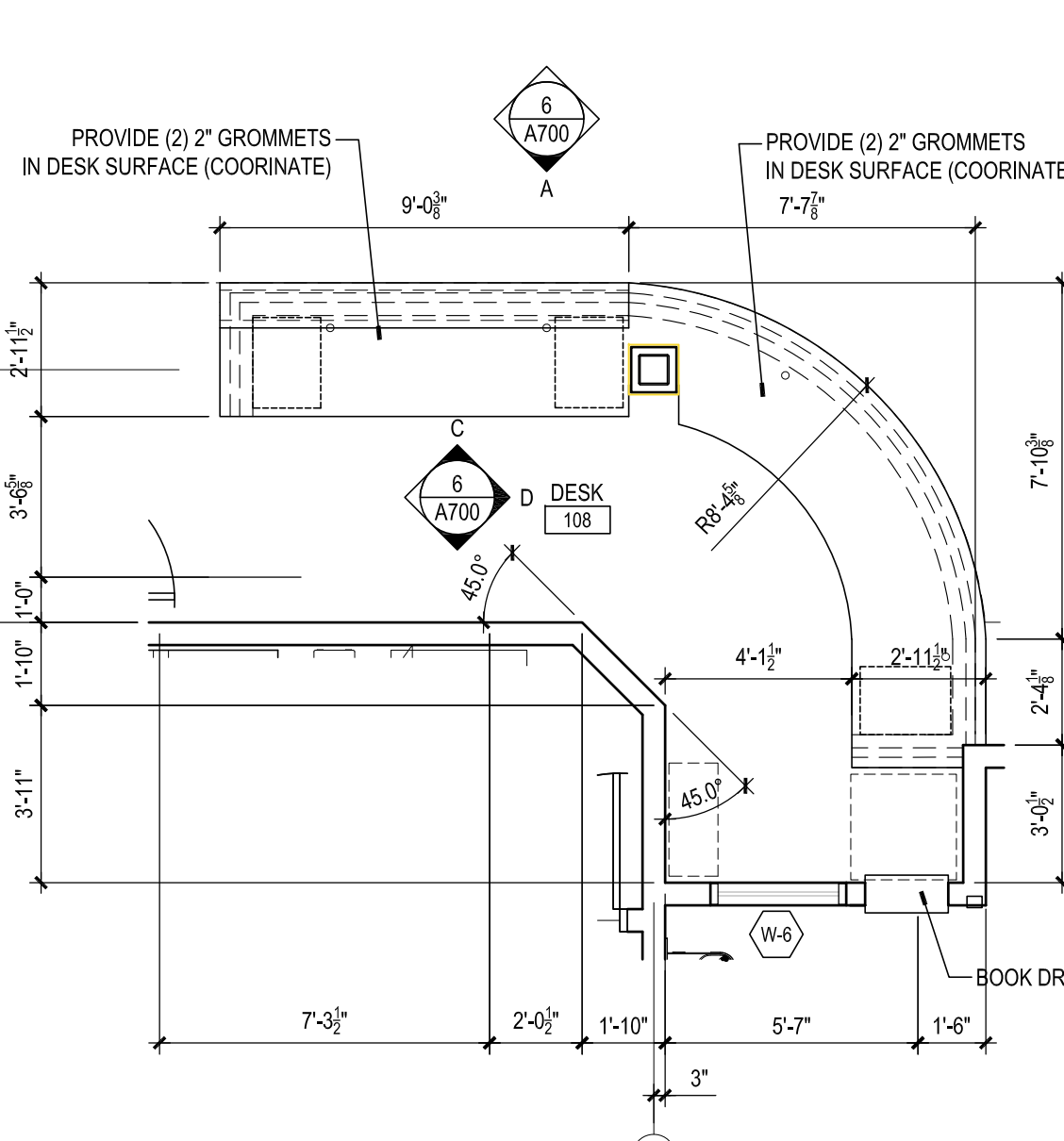
4 INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"



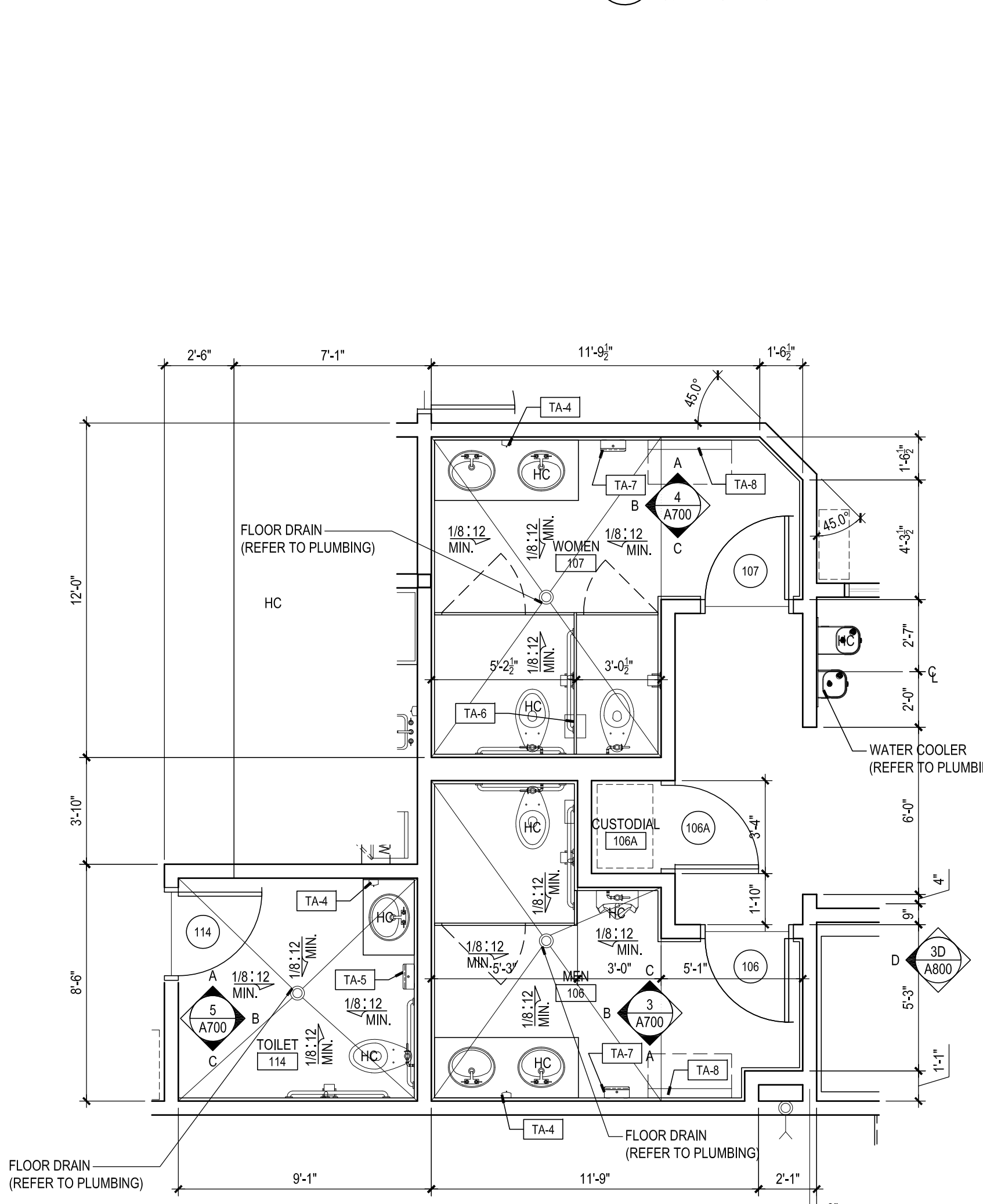
3 INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"



1B ENLARGED FLOOR PLAN - CUSTODIAL
SCALE: 1/4" = 1'-0"



2 ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"



1A ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"

TOILET ACCESSORY SCHEDULE	
TAG NO.	DESCRIPTION
TA-1A	18" GRAB BAR (VERTICAL)
TA-1B	36" GRAB BAR
TA-1C	42" GRAB BAR
TA-2	TOILET TISSUE DISPENSER (PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR)
TA-3A	24" X 36" MIRROR UNIT
TA-3B	60" X 36" MIRROR UNIT
TA-4	SOAP DISPENSER (PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR)
TA-5	PAPER TOWEL DISPENSER (PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR)
TA-6	SANITARY NAPKIN DISPOSAL UNIT (PARTITION MOUNTED- DUAL)
TA-7	ELECTRIC HAND DRYER (COORDINATE WITH ELECTRICAL)
TA-8	WALL-MOUNTED BABY CHANGING STATION
TA-9A	24" MOP AND BROOM HOLDER
TA-9B	34" SHELF WITH MOP, BROOM AND RAG HOLDER

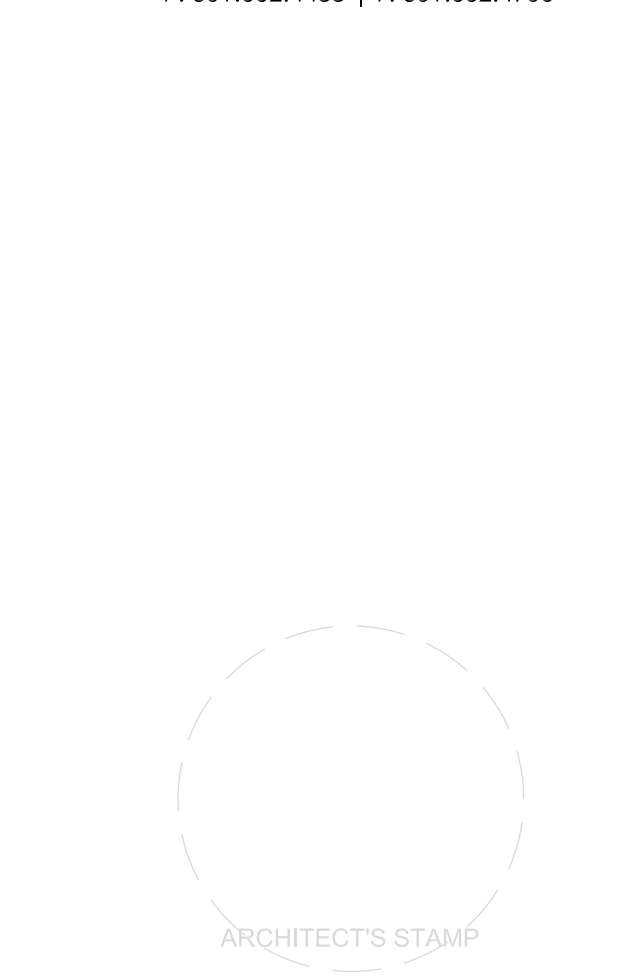
GENERAL NOTES:
1. TA-4 (SOAP DISPENSER) AND TA-5 (PAPER TOWEL DISPENSER) TO BE LOCATED AT COUNTERTOP SINKS IN BOTH COMMUNITY ROOM 101 AND RECEIVINGWORK 111.

PROJECT INFORMATION

PROJECT TITLE
MYERSVILLE COMMUNITY LIBRARY
PROJECT ADDRESS
8 HARP PLACE
MYERSVILLE, MD 21773
PROJECT OWNER
FREDERICK COUNTY,
MARYLAND
DEPARTMENT OF PUBLIC
WORKS

PROJECT TEAM

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SHEET INFORMATION

KEY PLAN

REVISIONS		
REV. #	DESCRIPTION	DATE

PROJECT STATUS

JOB NUMBER: 17905
ISSUE DATE: 10 APRIL 2018
SCALE: AS INDICATED
SHEET TITLE:

ENLARGED PLANS
SHEET NUMBER:
A700
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MYERSVILLE COMMUNITY LIBRARY

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8 HARP PLACE
MYERSVILLE, MD 21773

PROJECT OWNER
FREDERICK COUNTY,
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DEPARTMENT OF PUBLIC
WORKS

PROJECT TEAM

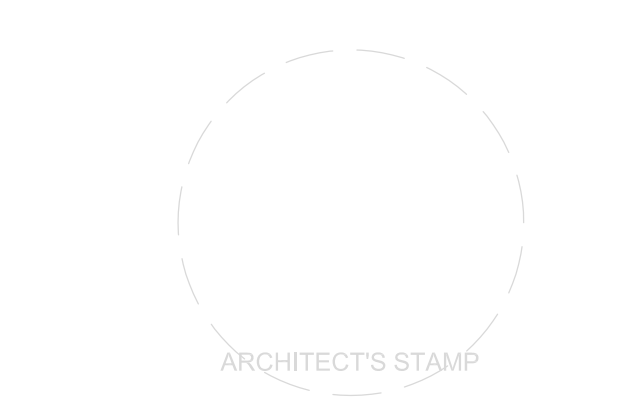


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SHEET INFORMATION
KEY PLAN

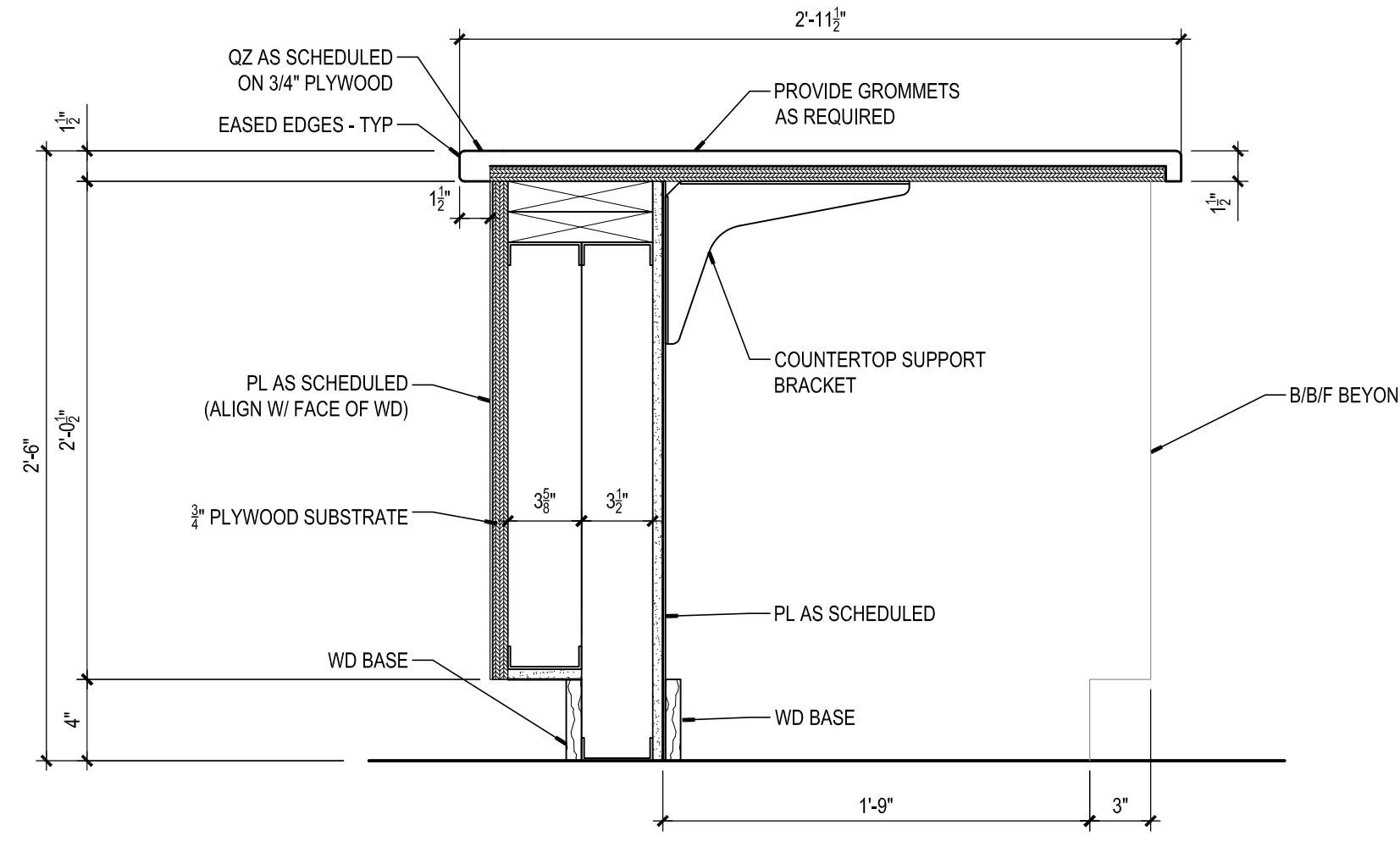
REV. #:	DESCRIPTION:	DATE:

PROJECT STATUS

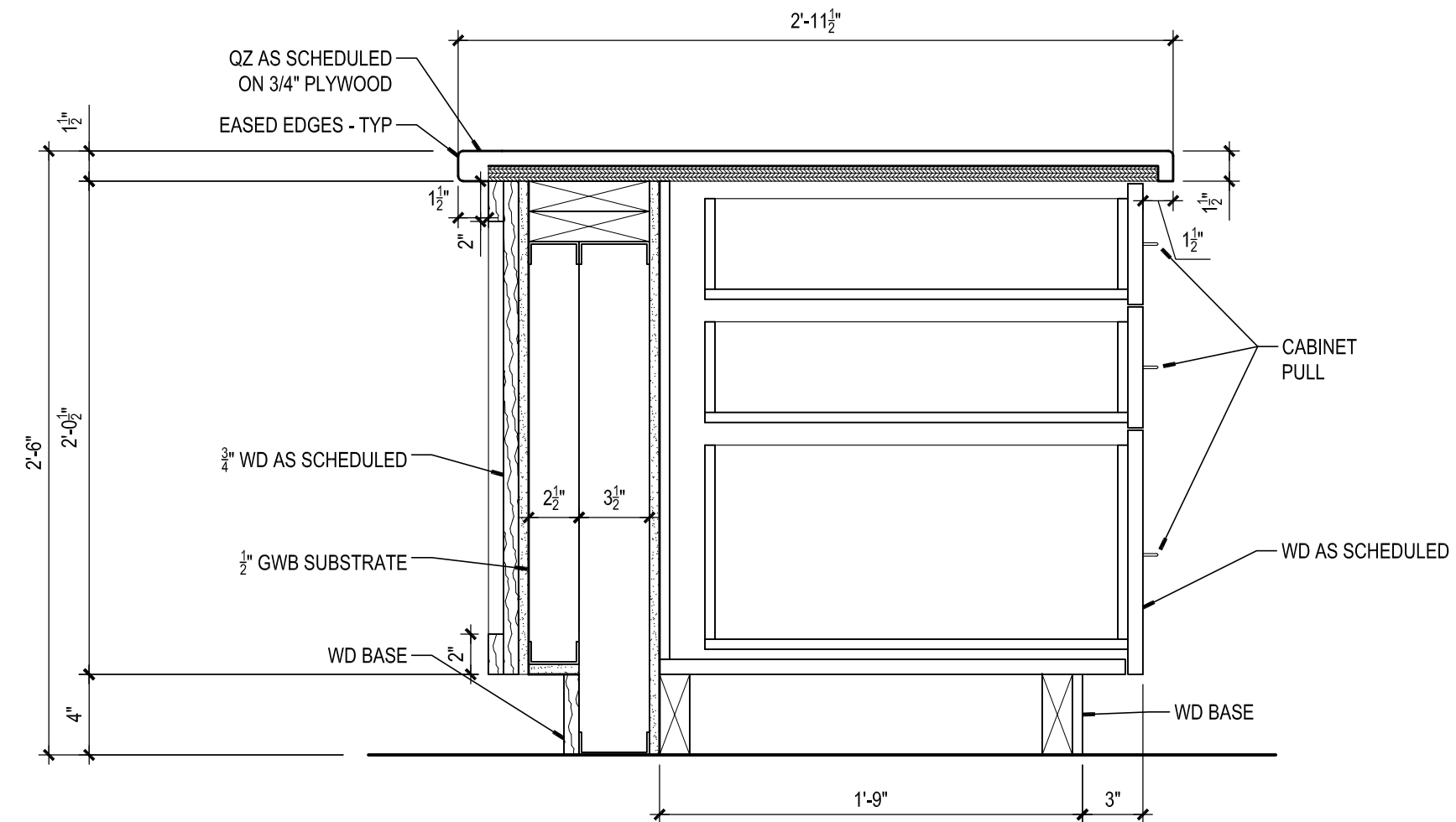
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ISSUE DATE: 10 APRIL 2018
SCALE: AS INDICATED
SHEET TITLE:

INTERIOR ELEVATIONS AND CASEWORK DETAILS

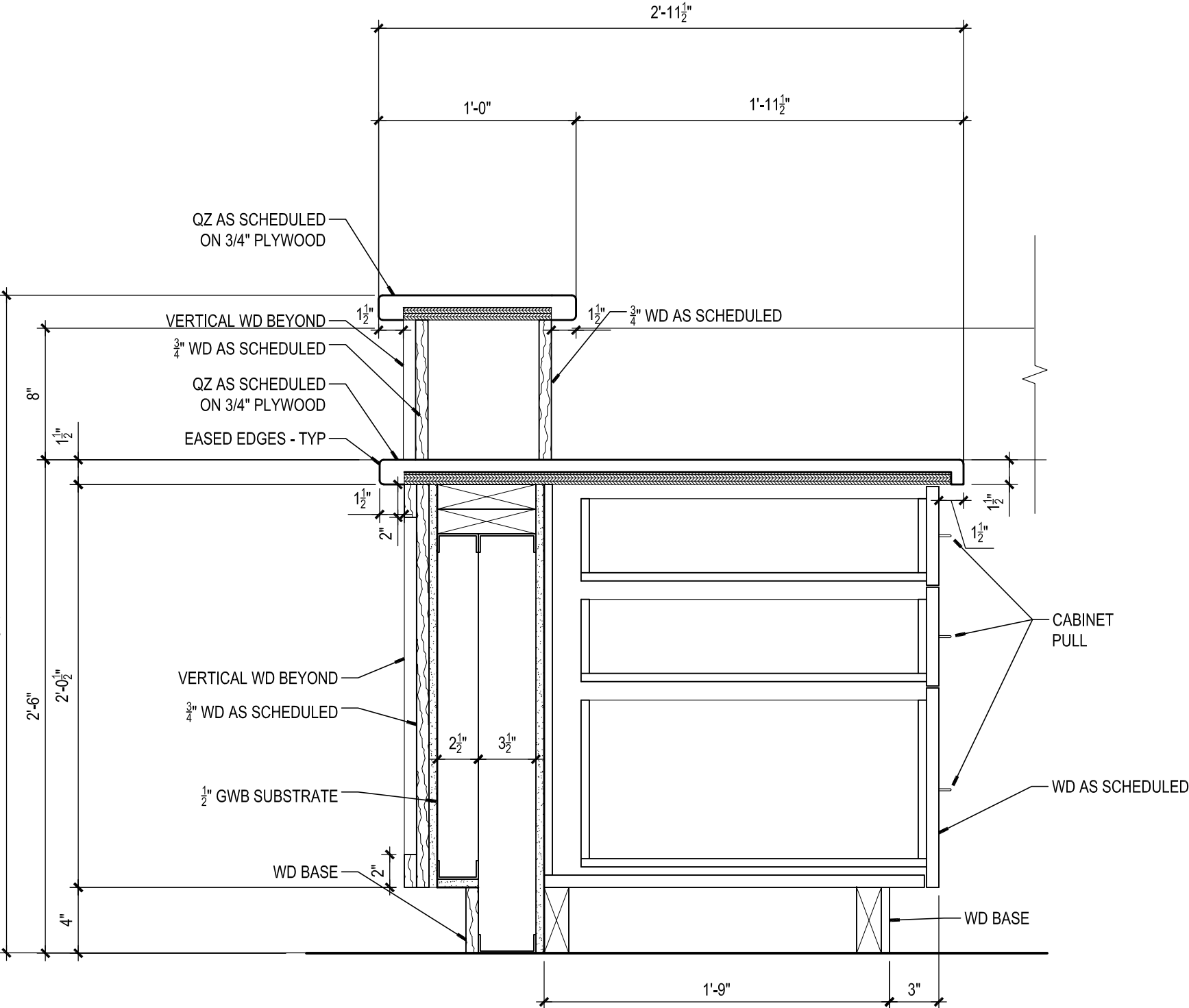
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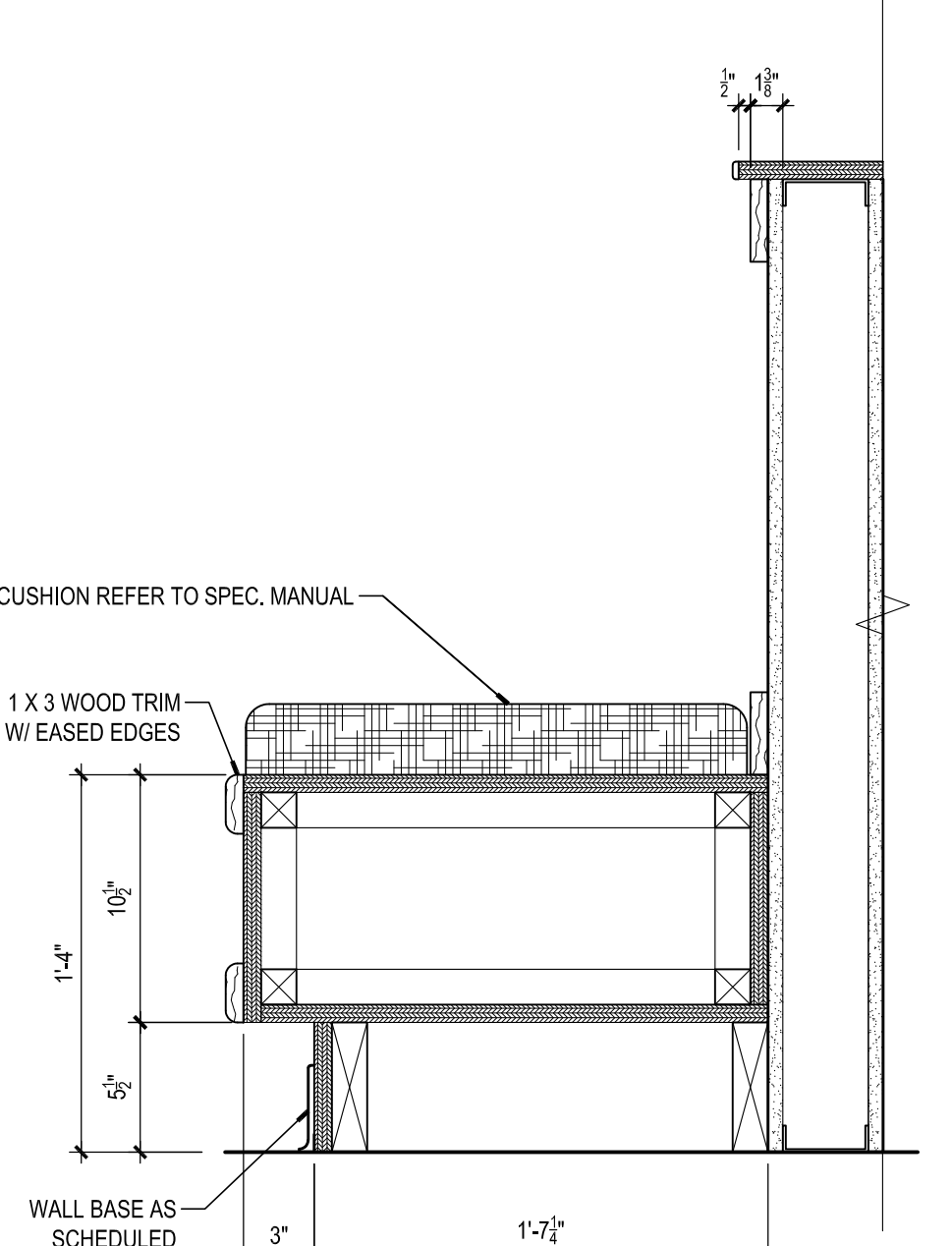
14 DETAIL - DESK 108
SCALE: 1 1/2" = 1'-0"



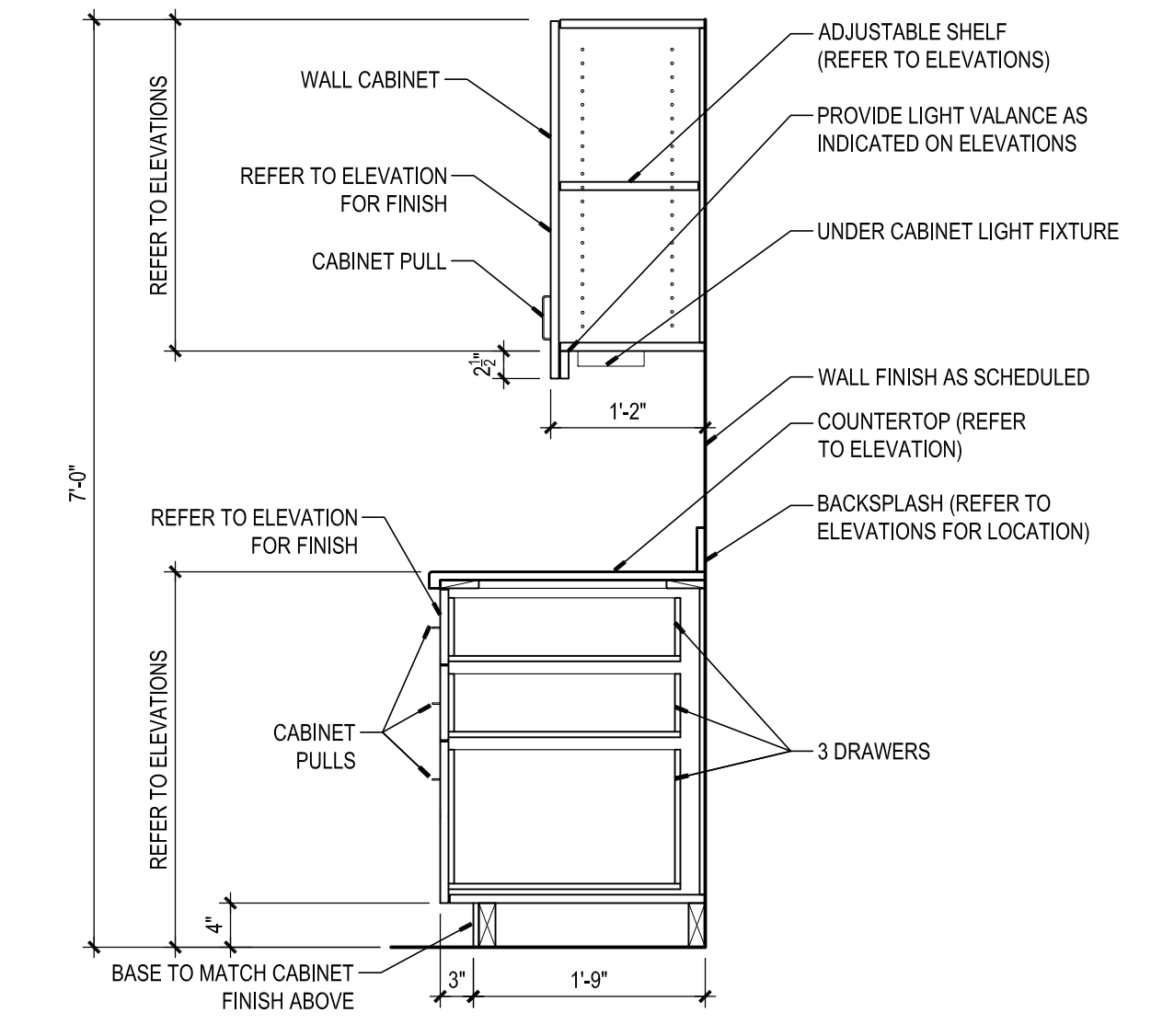
13 DETAIL - DESK 108
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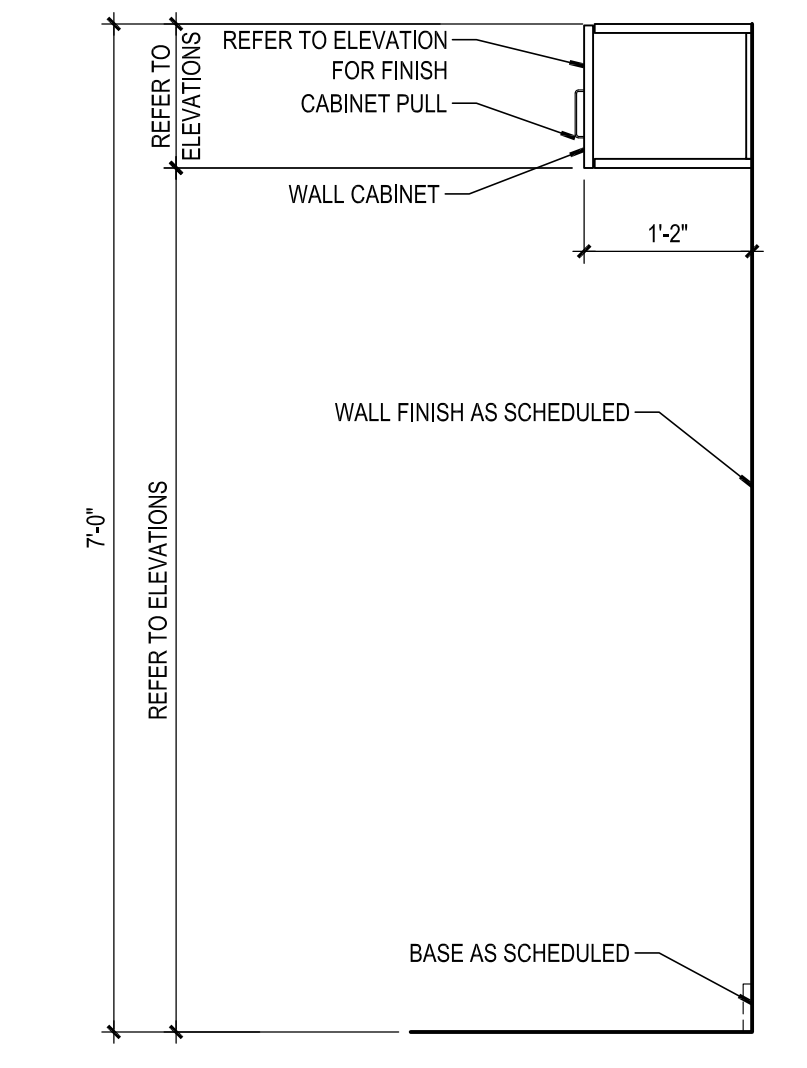
12 DETAIL - DESK 108
SCALE: 1 1/2" = 1'-0"



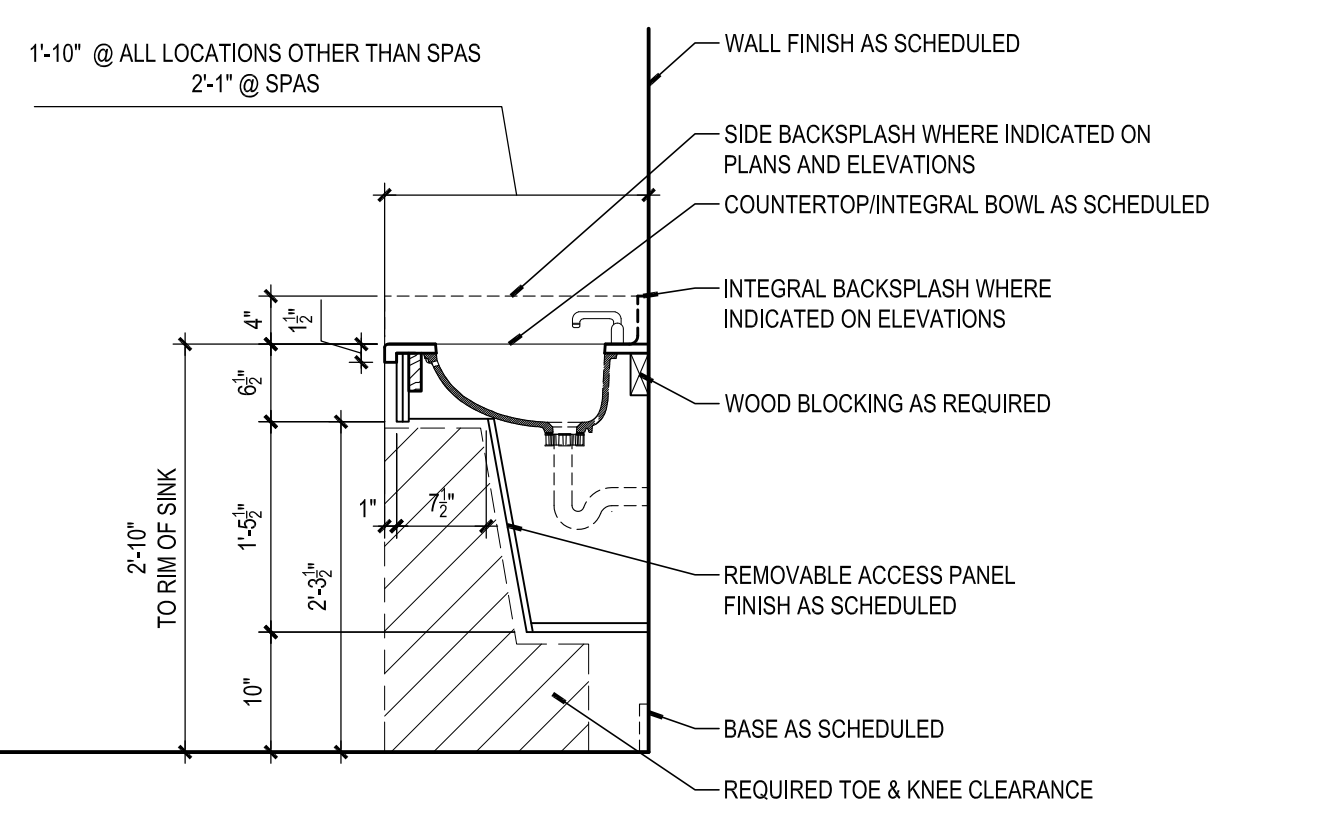
11 DETAIL/SECTION - BENCH
SCALE: 1 1/2" = 1'-0"



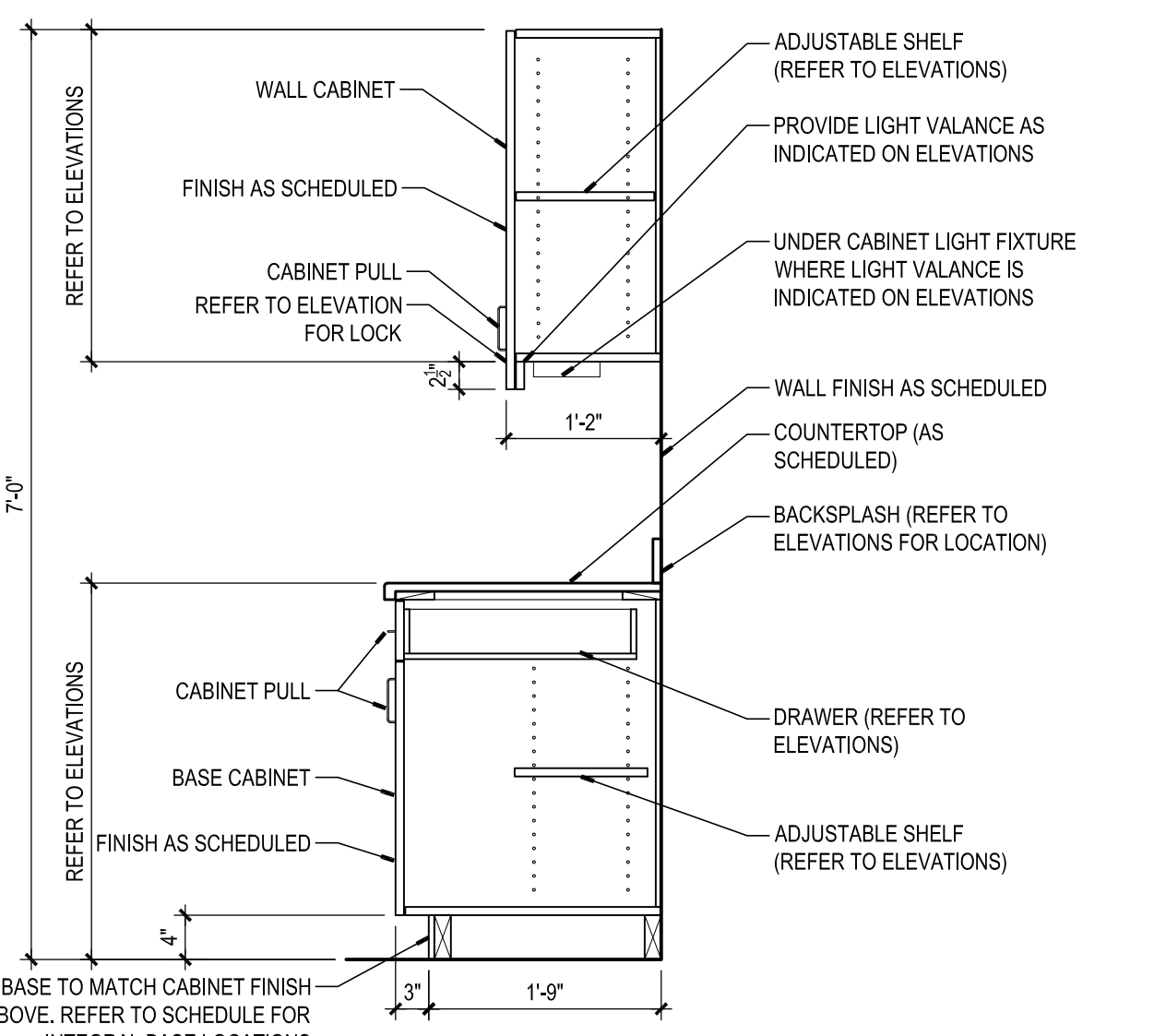
10 DETAIL - DRAWER BASE & WALL CABINET
SCALE: 3/4" = 1'-0"



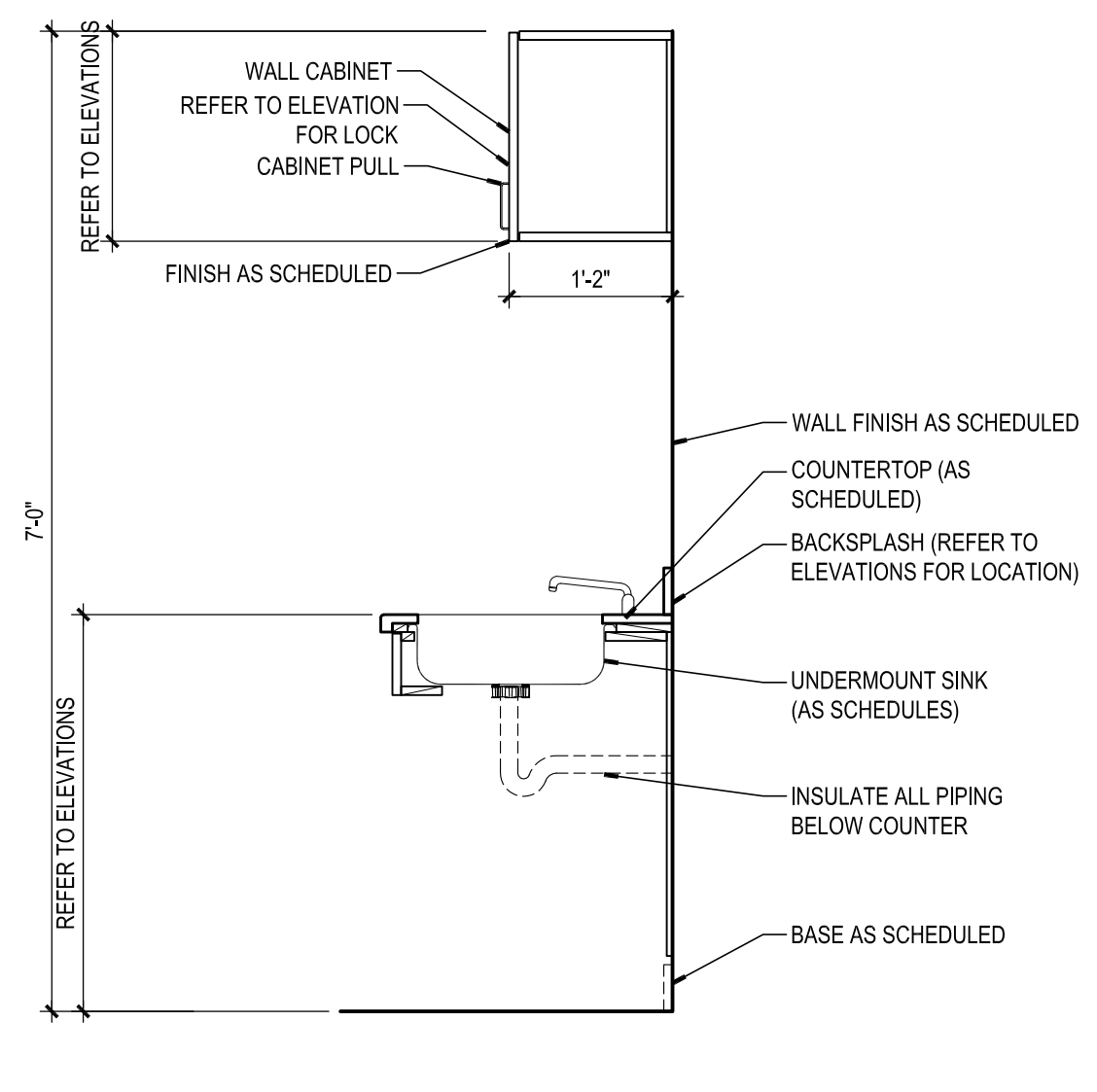
9 DETAIL - WALL CABINET
SCALE: 3/4" = 1'-0"



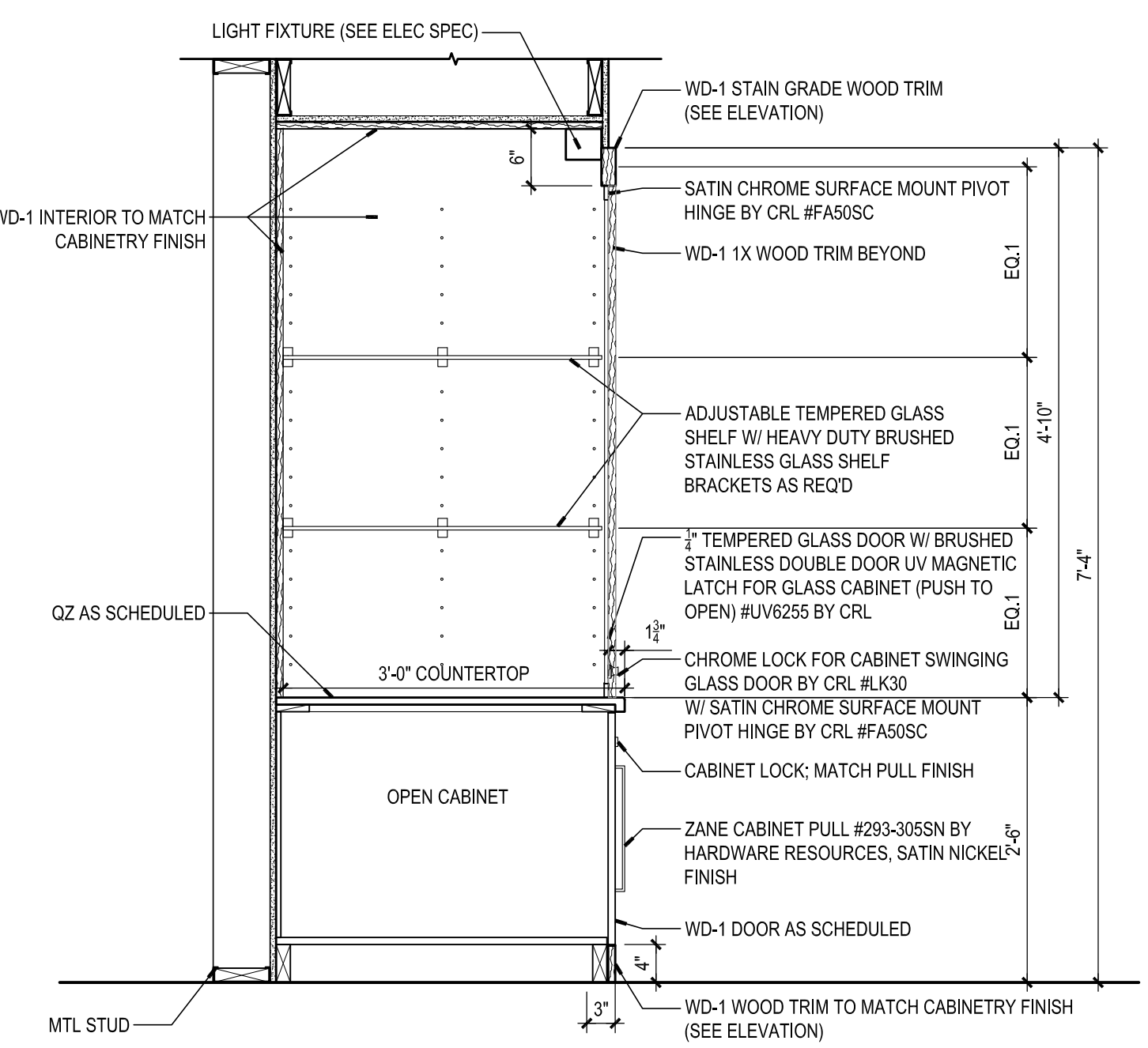
8 DETAIL - ACCESSIBLE SINK VANITY
SCALE: 3/4" = 1'-0"



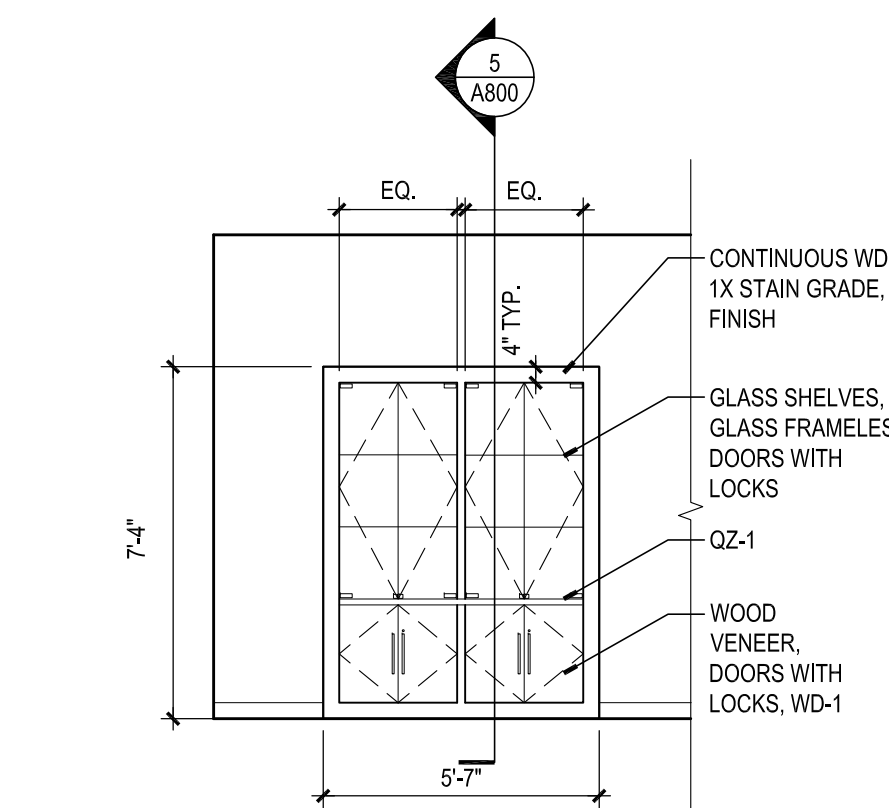
7 DETAIL - BASE & WALL CABINET
SCALE: 3/4" = 1'-0"



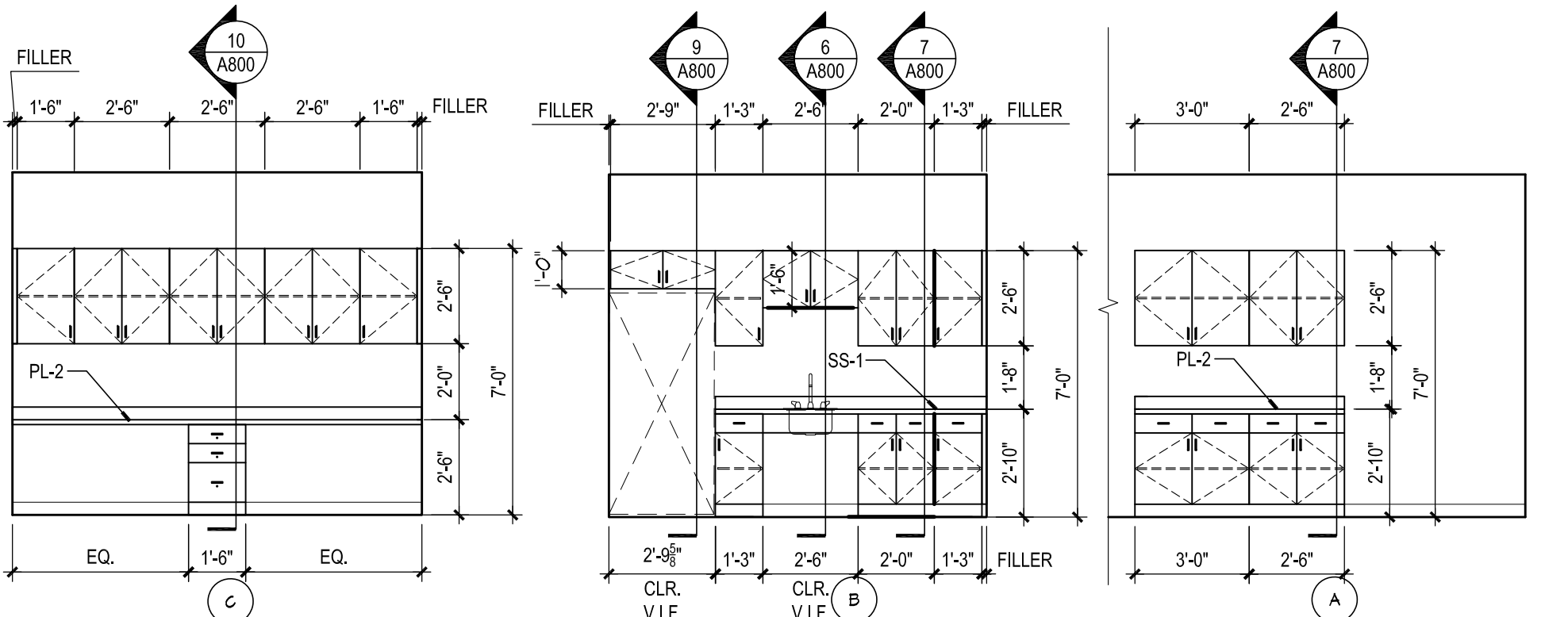
6 DETAIL - SINK BASE & WALL CABINET
SCALE: 3/4" = 1'-0"



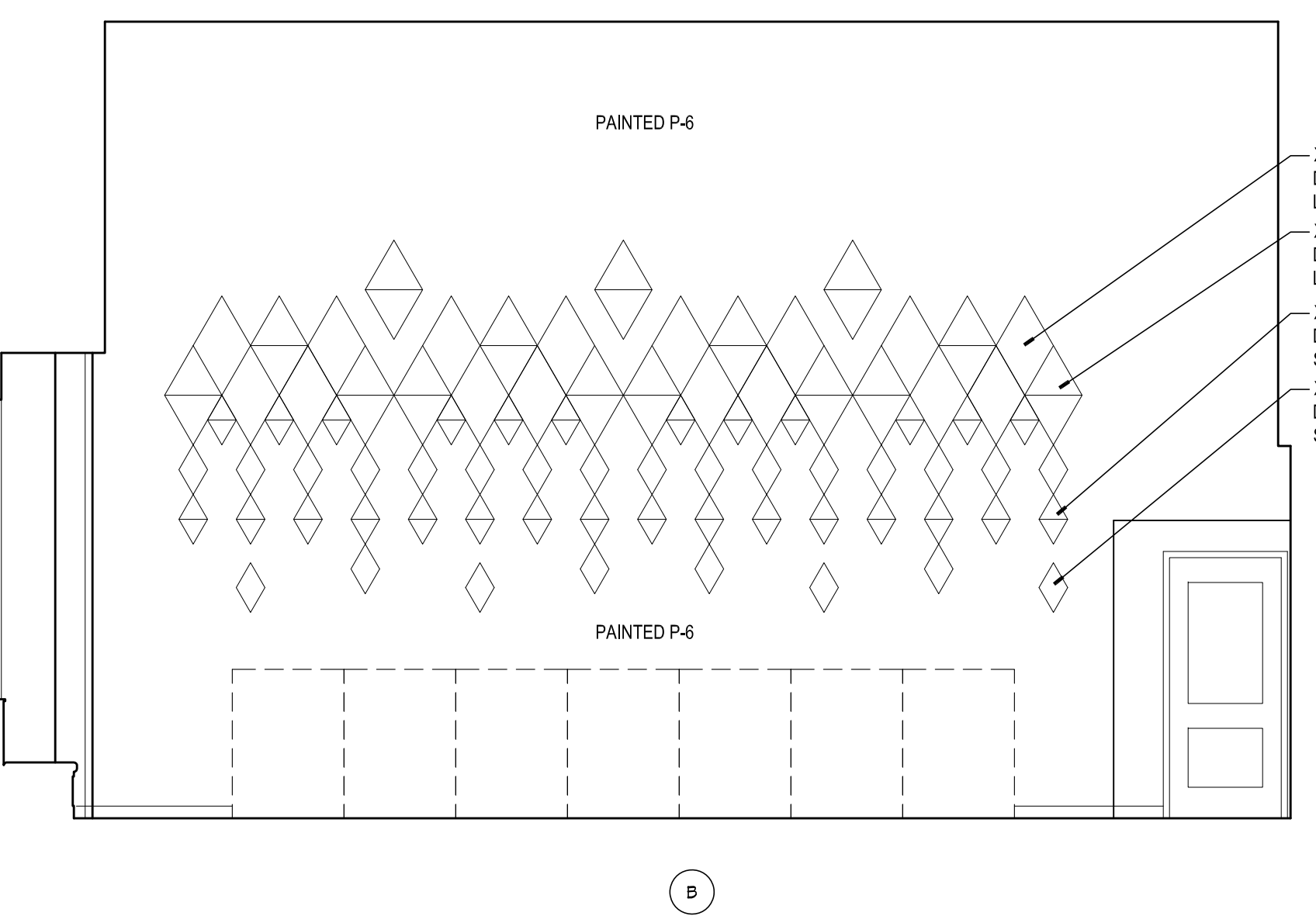
5 DETAIL - BUILT-IN CABINET
SCALE: 3/4" = 1'-0"



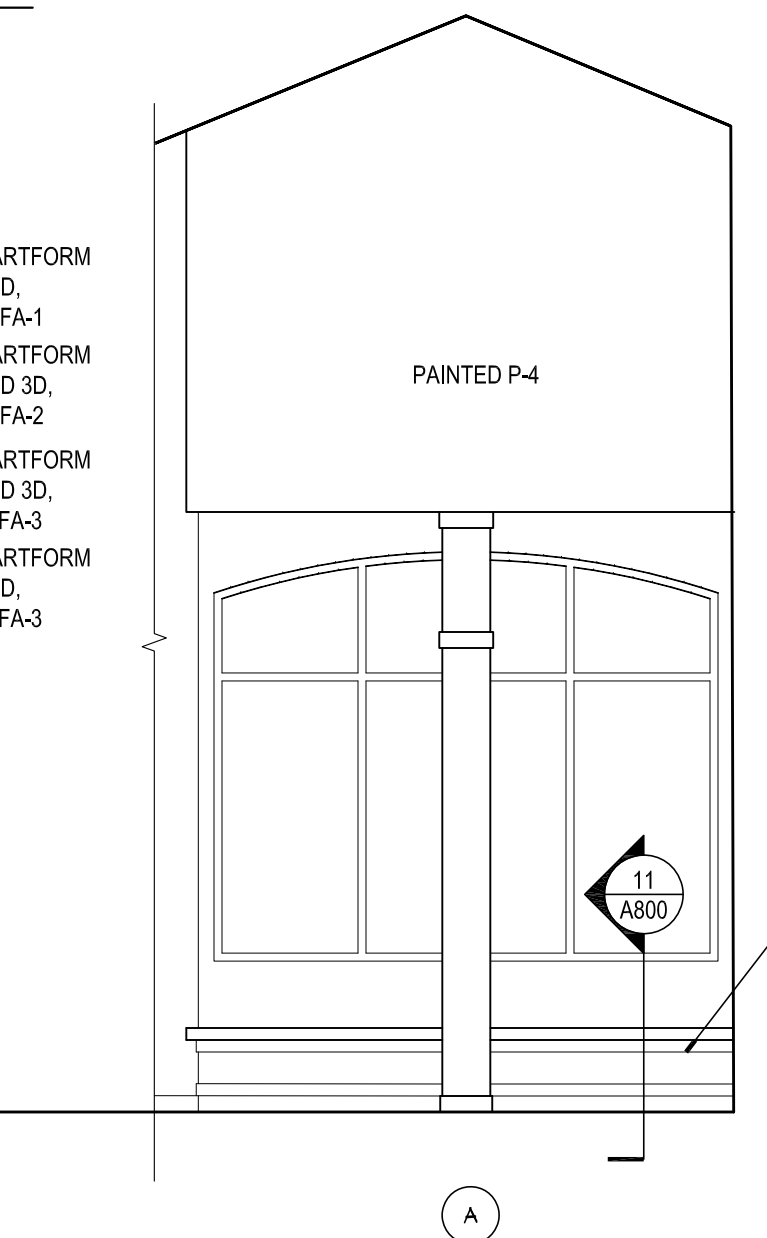
4 INTERIOR ELEVATION - DISPLAY CASE
SCALE: 1/4" = 1'-0"



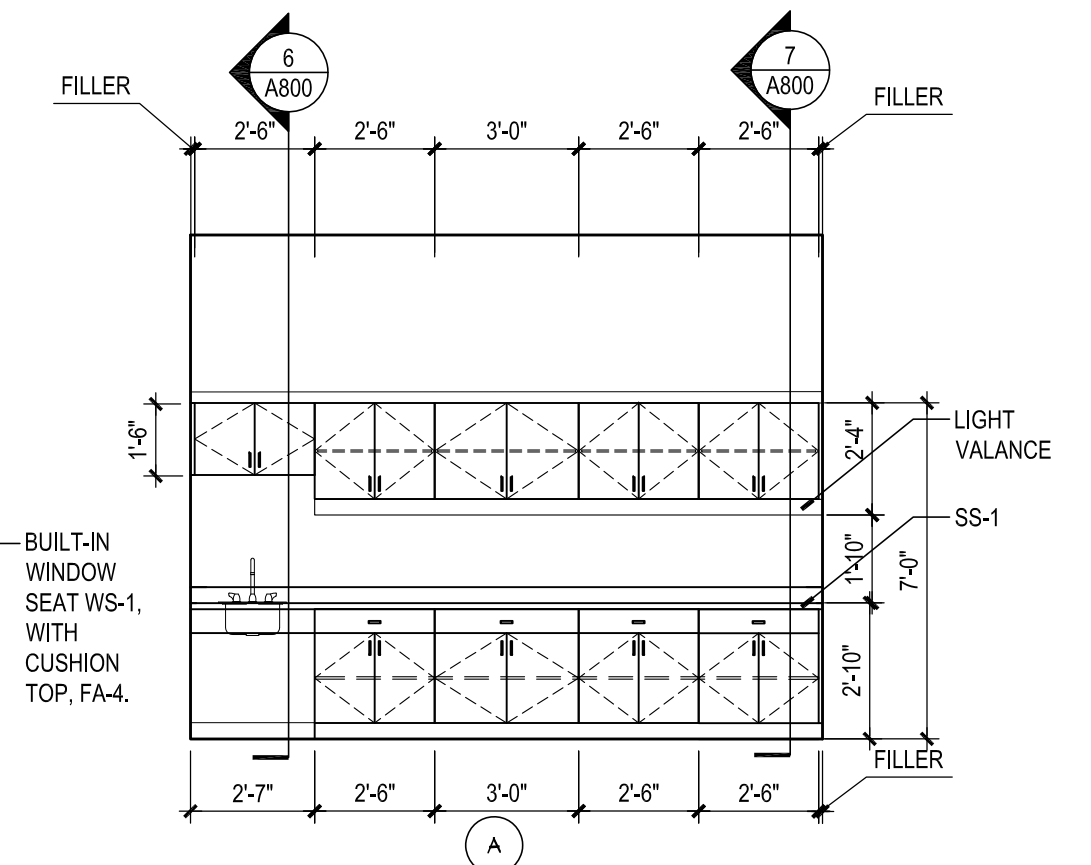
3 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



2 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

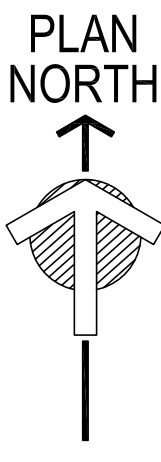
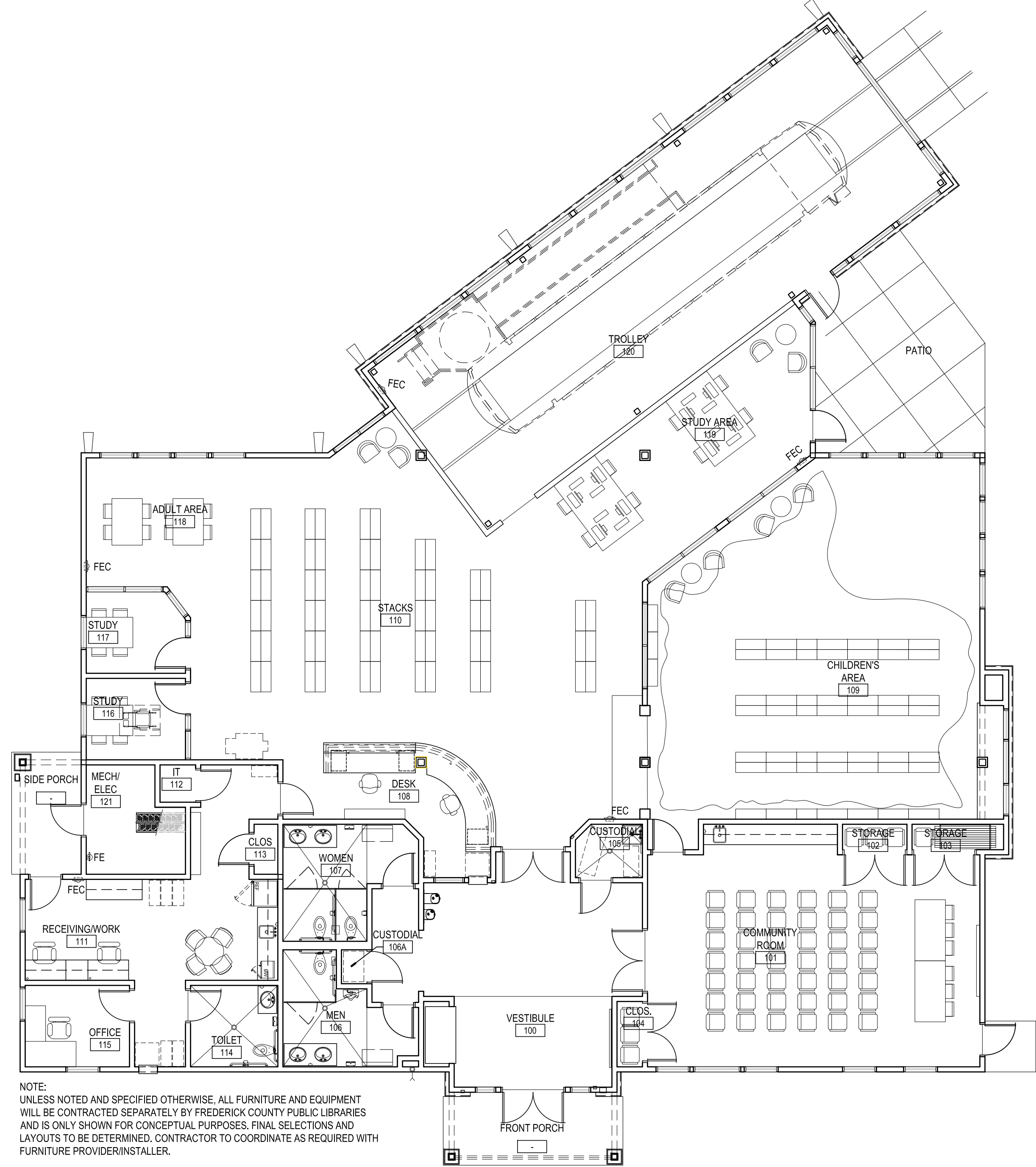


1 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



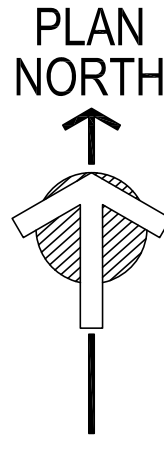
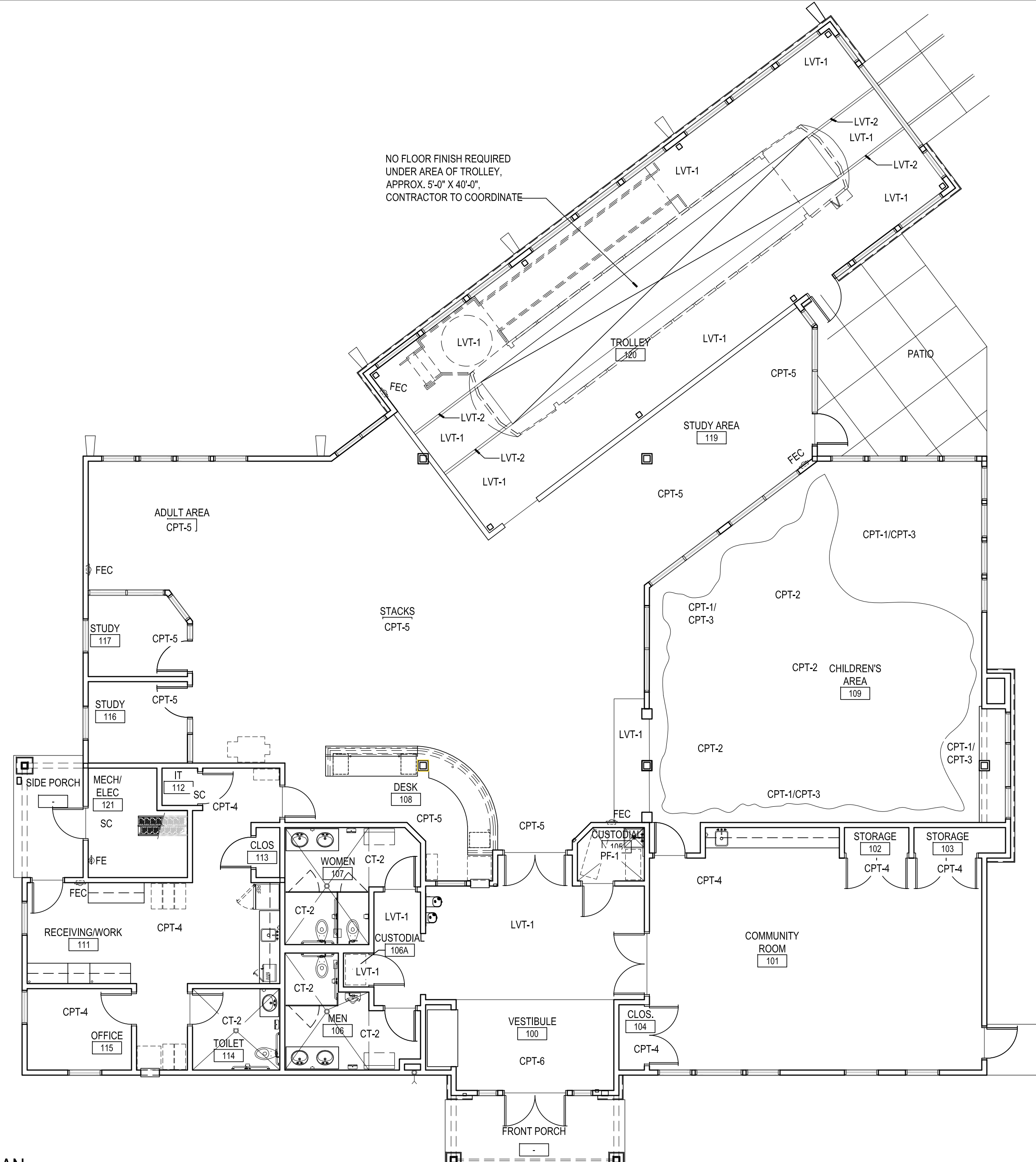
1 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

GENERAL NOTES:



NOTE:
UNLESS NOTED AND SPECIFIED OTHERWISE, ALL FURNITURE AND EQUIPMENT
WILL BE CONTRACTED SEPARATELY BY FREDERICK COUNTY PUBLIC LIBRARIES
AND IS ONLY SHOWN FOR CONCEPTUAL PURPOSES. FINAL SELECTIONS AND
LAYOUTS TO BE DETERMINED. CONTRACTOR TO COORDINATE AS REQUIRED WITH
FURNITURE PROVIDER/INSTALLER.

4 FF&E PLAN
SCALE: 1/8" = 1'-0"



3 FINISH AND FLOOR PATTERN PLAN
SCALE: 1/8" = 1'-0"

ITEM	SYMBOL	MFR	FINISH KEY	PRODUCT NAME, #, & COLOR	SPECIFICS	REMARKS
064113- WOOD VENEER-FACED ARCHITECTURAL CABINETS						
WD-1		CUSTOM STAIN FINISH		MATCH ARCHITECT'S SAMPLE ON SAMPLE		
064116/12362-31- PLASTIC LAMINATE-FACED ARCHITECTURAL CABINETS/PLASTIC LAMINATE COUNTERTOPS						
PLASTIC LAMINATE (PL)						
PL-1		WILSONART		BL6455 (R08) Hot Tin Roof		
PL-2		FORMICA		6377 34 Weathered Cement, Scavo Finish		
PL-3		FORMICA		1158 58 Huges River, Matte Finish		
PL-4		WILSONART		7830 60 Biquamwood, Matte Finish		
093000- TILE						
CERAMIC TILE (CT)						
CT-1		CROSSVILLE		NEST, COLOR: AV383 BLISSFUL OLIVE, SIZE: 6" X 9", Thickness: 10.5mm	Joint Width: 3/16"	Wall tile installed 36" long side in the horiz. direction, Brick Pattern
CT-1B		CROSSVILLE		NEST, COLOR: AV383 BLISSFUL OLIVE, SIZE: 6" X 18", Thickness: 10.5mm	Joint Width: 3/16"	Wall tile bullnose trim
CT-2		CROSSVILLE		NEST, COLOR: NRC02 JOYOUS OAK 4MD OLIVE MIX, SIZE: 1" X 6" MOSAIC, Thickness: 10.5 mm	Joint Width: 3/16"	Floor Tile
095100- ACOUSTICAL CEILING						
ACOUSTICAL CEILING TILE (ACT)/ CEILING SYSTEM (C-3)						
ACT-1		ARMSTRONG COMMERCIAL		ULTRAM 195L, 15/16" GRID, BEVELED TEGULAR, SIZE: 24" X 24" X 3/4"		
ACT-2		ARMSTRONG COMMERCIAL		CERAMAGUARD FINE FIGURED 407, 25/16" GRID, SIZE: 24" X 24" X 5/8"		
C-1		ARMSTRONG COMMERCIAL		WOODWORKS, LINEAR, VENEERED PLAINS, 6" MODULE WOOD FINISH- CHERRY CCY		
C-2		ARMSTRONG COMMERCIAL		WOODWORKS, CONCEALED, 598LW-3, WOOD FINISH CHERRY CCY, SIZE: 24" X 48"		
095500- RESILIENT FLOORING (LVT)						
LUXURY VINYL TILE						
LVT-1		MOHAWK GROUP		HOT AND HEAVY, MIXED SOLID, Color: 768 Integrate		Tile Size: 36" x 36"
LVT-2		MOHAWK GROUP		HOT AND HEAVY, LINEATE, Color: 868 Grove		Plank Size: 9" x 59"
095500- RESILIENT BASE AND ACCESSORIES RUBBER BASE (RB)						
RB-1		JOHNSONITE		TRADITIONAL WALL BASE, 4" H. COLOR: 79 BONE WHITE		
096700- EPOXY FLOORING (EP-F)						
EP-F-1		SHERWIN WILLIAMS		GENERAL POLYMERS, CERAMIC CARPET 4000, COLOR: MOUNTAIN SAGE		
09813- TILE CARPETING						
CARPET TILE (CPT)						
CPT-1		INTERFACE		URBAN RETREAT, UR30L, 12713025H, COLOR: 101905 FLAX/GRASS		INSTALLATION METHOD: NON-DIRECTION
CPT-2		INTERFACE		URBAN RETREAT, UR30L, 12713025H, COLOR: FLAX		INSTALLATION METHOD: NON-DIRECTION
CPT-3		INTERFACE		URBAN RETREAT, UR30L, 12713025H, COLOR: GRASS		INSTALLATION METHOD: NON-DIRECTION
CPT-4		INTERFACE		URBAN RETREAT, UR30L, 12699025H, COLOR: 102073 FLAX		INSTALLATION METHOD: MONOLITHIC
CPT-5		INTERFACE		GARDEN, FIRST OPTION, 10884025H, COLOR: 108783 OREGANO ACCENT		INSTALLATION METHOD: QUARTER TURN
CPT-6		SHAW CONTRACT		PATH FILE, ST034, COLOR: 84761 PORTABELLA		INSTALLATION METHOD: MONOLITHIC
099100- PAINTS (P)						
P-1		SHERWIN WILLIAMS		SW7030 MULEBARK		
P-2		SHERWIN WILLIAMS		SW5122 SONG THROUGH		
P-3		SHERWIN WILLIAMS		SW5209 NATURAL LINEN		
P-4		SHERWIN WILLIAMS		SW4343 SASSY GREEN		
P-5		SHERWIN WILLIAMS		SW4617 PURPLE TREE		
P-6		SHERWIN WILLIAMS		SW4565 AMBER WAVE		
P-7		SHERWIN WILLIAMS		SW7703 EARTHEN JUG		
123641-16- SOLID SURFACING COUNTERTOPS (SS) / WINDOW SILL						
SS-1		COBIAN		COLOR: COTTAGE LAKE		
SS-2		COBIAN		COLOR: WEATHERED CONCRETE		
123641-19- QUARTZ AGGLOMERATE COUNTERTOPS						
QZ-1		CAMBRIA/ZODIAC777		COLOR: 7777		

2 FINISH LEGEND
SCALE: NONE

FINISH SCHEDULE

ROOM #	SPACE	FLOOR		WALLS				CEILING	REMARKS
		FLOORING	BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	MATERIAL	
-	FRONT OF BUILDING	-	-	-	-	-	-	-	
-	FRONT PORCH	-	-	-	-	-	-	-	
-	SIDE PORCH	-	-	-	-	-	-	-	
-	FRONT PORCH	-	-	-	-	-	-	-	
100	VESTIBULE	-	-	-	-	-	-	-	
100	VESTIBULE	-	-	-	-	-	-	-	
100	VESTIBULE	CPT-6/LVT-1	RB-1	P-1	P-1	P-1	P-1	P-3	
101	COMMUNITY ROOM	CPT-4	RB-1	P-1	P-1	P-5	P-1	C-2 / P-3	6
102	STORAGE	CPT-4	RB-1	P-1	P-1	P-1	P-1	P-1	
103	STORAGE	CPT-4	RB-1	P-1	P-1	P-1	P-1	P-1	
104	CLOS.	CPT-4	RB-1	P-1	P-1	P-1	P-1	P-1	
105	CUSTODIAL	PF-1	PF-1	PF-1/P-1	PF-1/P-1	PF-1/P-1	PF-1/P-1	P-3	
106	MEN	CT-2	CT-1	CT-1/CT-1B / P-1	CT-1/CT-1B / P-1	CT-1/CT-1B / P-1	CT-1/CT-1B / P-1	P-3	1
106A	CUSTODIAL	SEAL CONC.	RB-1	P-1	P-1	P-1	P-1	P-3	
107	WOMEN	CT-2	CT-1	CT-1 / CT-1B / P-1	CT-1/CT-1B / P-1	CT-1/CT-1B / P-1	CT-1/CT-1B / P-1	P-3	1
108	DESK	-	-	-	-	-	-	-	
108	DESK	-	-	-	-	-	-	-	
108	DESK	CPT-5	RB-1	-	P-1	P-1	P-1	C-1/P-1/P-5	2, 4
109	CHILDREN'S AREA	CPT-1, 2, SILVT-1	RB-1	P-1	P-1	P-4	P-6	C-1	
110	STACKS	CPT-SILVT-1	RB-1	P-1	P-2	P-7	P-7	C-1	5
111	RECEIVING/WORK	-	-	-	-	-	-	-	
111	RECEIVING/WORK	-	-	-	-	-	-	-	
111	RECEIVING/WORK	-	-	-	-	-	-	-	
111	RECEIVING/WORK	CPT-4	RB-1	P-1	P-1	P-1	P-1	ACT-1	3
112	IT	CPT-4	RB-1	P-1	P-1	P-1	P-1	P-1	
113	CLOS	CPT-4	RB-1	P-1	P-1	P-1	P-1	P-1	
114	TOILET	CT-2	CT-1	CT-1/CT-1B / P-1	CT-1/CT-1B / P-1	CT-1/CT-1B / P-1	CT-1/CT-1B / P-1	P-3	1
115	OFFICE	CPT-4	RB-1	P-1	P-1	P-1	P-1	ACT-1	
116	STUDY	CPT-5	RB-1	P-1	P-1	P-1	P-7	ACT-1	
117	STUDY	CPT-5	RB-1	P-1	P-1	P-1	P-7	ACT-1	
118	ADULT AREA	CPT-5	RB-1	P-1	-	P-1	P-7	C-1	
119	STUDY AREA	CPT-5	RB-1	P-1	P-1	P-1	P-1	P-3	5
120	TROLLEY	LVT-1/LVT-2	RB-1	P-2	P-2	P-2	P-2	P-1	
121	MECH/ELEC	SEAL CONC.	RB-1	P-1	P-1	P-1	P-1	P-3	
121	MECH/ELEC	-	-	-	-	-	-	-	
200	MECHANICAL LOFT	-	-	-	-	-	-	-	
200	MECHANICAL LOFT	-	-	-	-	-	-	-	

ABBREVIATIONS

ACT ACOUSTICAL CEILING TILE	P PAINT	PL PLASTIC LAMINATE
C CEILING SYSTEM	PF EPOXY POURED FLOOR	QZ QUARTZ
CPT CARPET TILE		RB RUBBER BASE
CT CERAMIC TILE		SS SOLID SURFACE
LVT LUXURY VINYL TILE		WD WOOD

GENERAL NOTES

- WOOD DOORS SHALL BE STAINED WD-1. DOOR FRAMES AND TRIM SHALL BE PAINTED P-2, TYPICAL.
- REFER TO SHEET 1000 FOR FLOOR FINISH LOCATIONS.
- P.AINT DIFFUSERS LOCATED AT WALLS AND CEILINGS TO MATCH ADJACENT WALL OR CEILING FINISH/COLOR, TYPICAL.
- CARRY FLOOR FINISH CONTINUOUS UNDERNEATH SINK BASIN, TYPICAL.
- P.AINT FIRE EXTINGUISHER CABINET EXTERIOR TRIM AND DOOR TO MATCH ADJACENT WALL PAINT COLOR, TYPICAL.
- PF-1 SHALL BE 4'-0" H. WAINSCOT ON THE WALLS AS INDICATED. P-1 PAINTED ABOVE THE WAINSCOT.

FINISH NOTES

- VANITY SHALL BE SS-1/ PL-4 VANITY BASE.
- PAINT FRONT OF THE CEILING BULKHEAD P-5. PAINT UNDERSIDE OF THE CEILING BULKHEAD P-3.
- COUNTERTOP SHALL BE PL-2. COUNTERTOPS AT KITCHENETTE SHALL BE SS-2. CABINETS SHALL BE PL-3.
- COUNTERTOP SHALL BE QZ-1. CABINETS SHALL BE PL-1/WD-1.
- PAINT FRONT OF THE CEILING BULKHEAD P-5. PAINT UNDERSIDE OF THE CEILING BULKHEAD P-3.
- COUNTERTOP SHALL BE SS-2. CABINETS SHALL BE PL-3.

1 FINISH SCHEDULE
SCALE: NONE

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PROJECT OWNER
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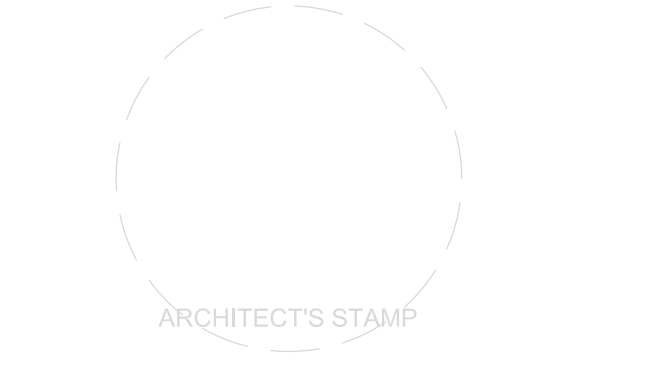
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SHEET INFORMATION

KEY PLAN

REVISIONS

REV. #	DESCRIPTION	DATE

PROJECT STATUS

JOB NUMBER: 17905
ISSUE DATE: 10 APRIL 2018
SCALE: AS INDICATED
SHEET TITLE:

FINISH SCHEDULE AND FINISH PLANS

SHEET NUMBER:

1000
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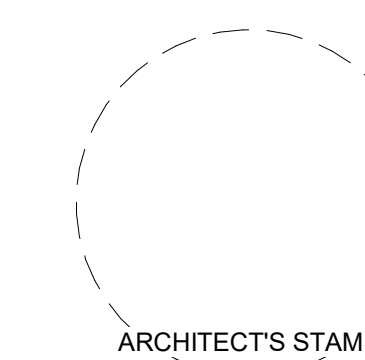
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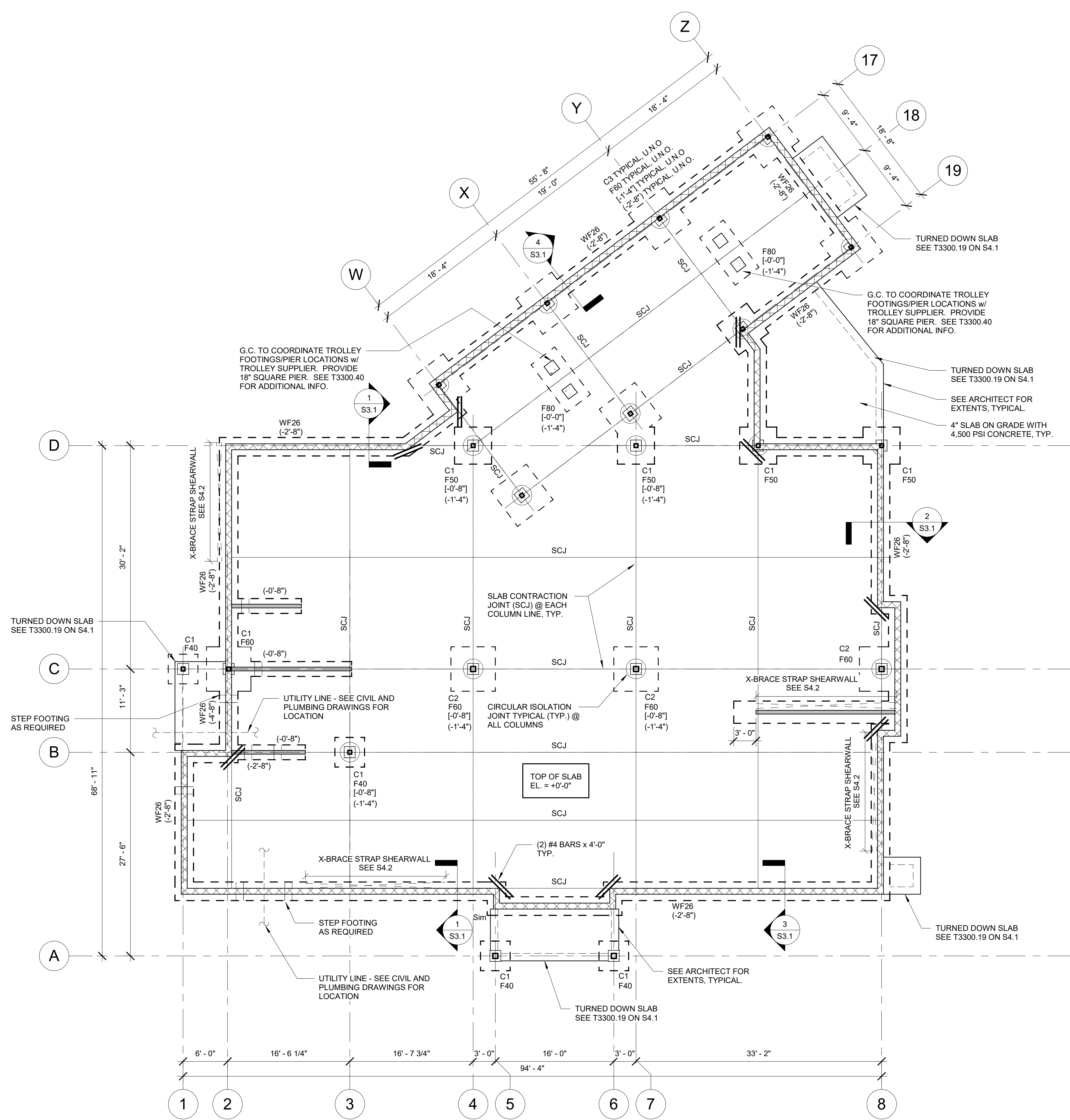
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SHEET INFORMATION

KEY PLAN



FOUNDATION PLAN

1/8" = 1'-0"

FLOOR AND LOW ROOF NOTES:

1. SLAB ON GRADE SHALL BE 4" NORMAL WEIGHT CONCRETE (FC=3000 PSI, 145 PCF) WITH 6"x6"-W14XW1.4 WELDED WIRE FABRIC OVER VAPOR BARRIER OVER 4" OF COMPACTED WASHED GRAVEL. SUBGRADE TO BE BPREPARED IN ACCORDANCE WITH THE GEOTECHNICAL RECOMMENDATIONS.
2. TOP OF SLAB ELEVATION 880.1' UNLESS NOTED OTHERWISE.
3. [-0'-0"] DENOTES TOP OF PIER ELEVATION MEASURED FROM TOP OF SLAB ON GRADE ELEVATION 880.1'.
4. (-0'-0") DENOTES TOP OF FOOTING ELEVATION MEASURED FROM TOP OF SLAB ON GRADE ELEVATION 880.1'. FOOTING ELEVATIONS ARE FOR BIDDING PURPOSES ONLY AND MAY HAVE TO BE ADJUSTED BASED ON FIELD CONDITIONS ENCOUNTERED DURING EXCAVATION.
5. ALL FOOTINGS SHALL BE LOWERED TO BEAR BELOW ANY UTILITIES. SEE TYPICAL DETAIL.
6. REFER TO THE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, CIVIL DRAWINGS FOR BELOW GRADE UTILITIES, BELOW GRADE CONDUITS, SLAB DEPRESSIONS, ETC.
7. ALL SUBGRADE PREPARATION FOR THE SLAB ON GRADE, FOOTINGS, INSTALLATION OF CONTROLLED FILL, ETC SHALL BE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
8. SCJ DENOTES SLAB CONTRACTION JOINT. SEE TYPICAL DETAILS.

FOOTING SCHEDULE

FOOTING NOTATION	SIZE (LxW)	THICKNESS	REINFORCEMENT (EACH WAY) BOTTOM
F40	4'-0"x4'-0"	12"	(5)#4 BARS
F50	5'-0"x5'-0"	12"	(6)#6 BARS
F80	8'-0"x8'-0"	12"	(7)#8 BARS
F80	8'-0"x4'-0"	12"	#5 @ 12" o.c.

TOP REINFORCEMENT TO BE #4 BARS @ 12" O.C. EACH WAY

WALL FOOTING SCHEDULE

MARK	WIDTH (FT)	THICKNESS (FT)	REINFORCEMENT (LONGITUDINAL)
WF26	2'-6"	1'-0"	(3)#5 BARS

NOTE: WALLS CENTERED ON WALL FOOTINGS.

COLUMN SCHEDULE

MARK	COLUMN SIZE
C1	HSS 6X6X3/8
C2	HSS 8X8X3/8
C3	HSS 6X6X1/2

REVISIONS

REV. #:	DESCRIPTION:	DATE:

PROJECT STATUS

JOB NUMBER: 17059
ISSUE DATE: 10 APRIL 2018
SCALE: 1/8" = 1'-0"
SHEET TITLE: FOOTING AND FOUNDATION

SHEET NUMBER:

S1.1



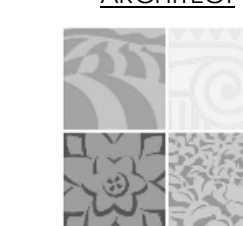
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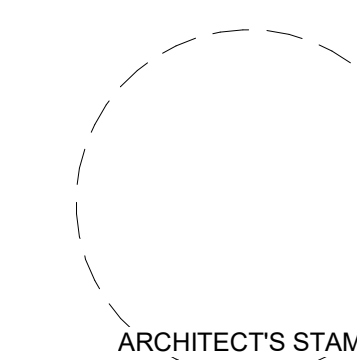
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KEY PLAN

REVISIONS

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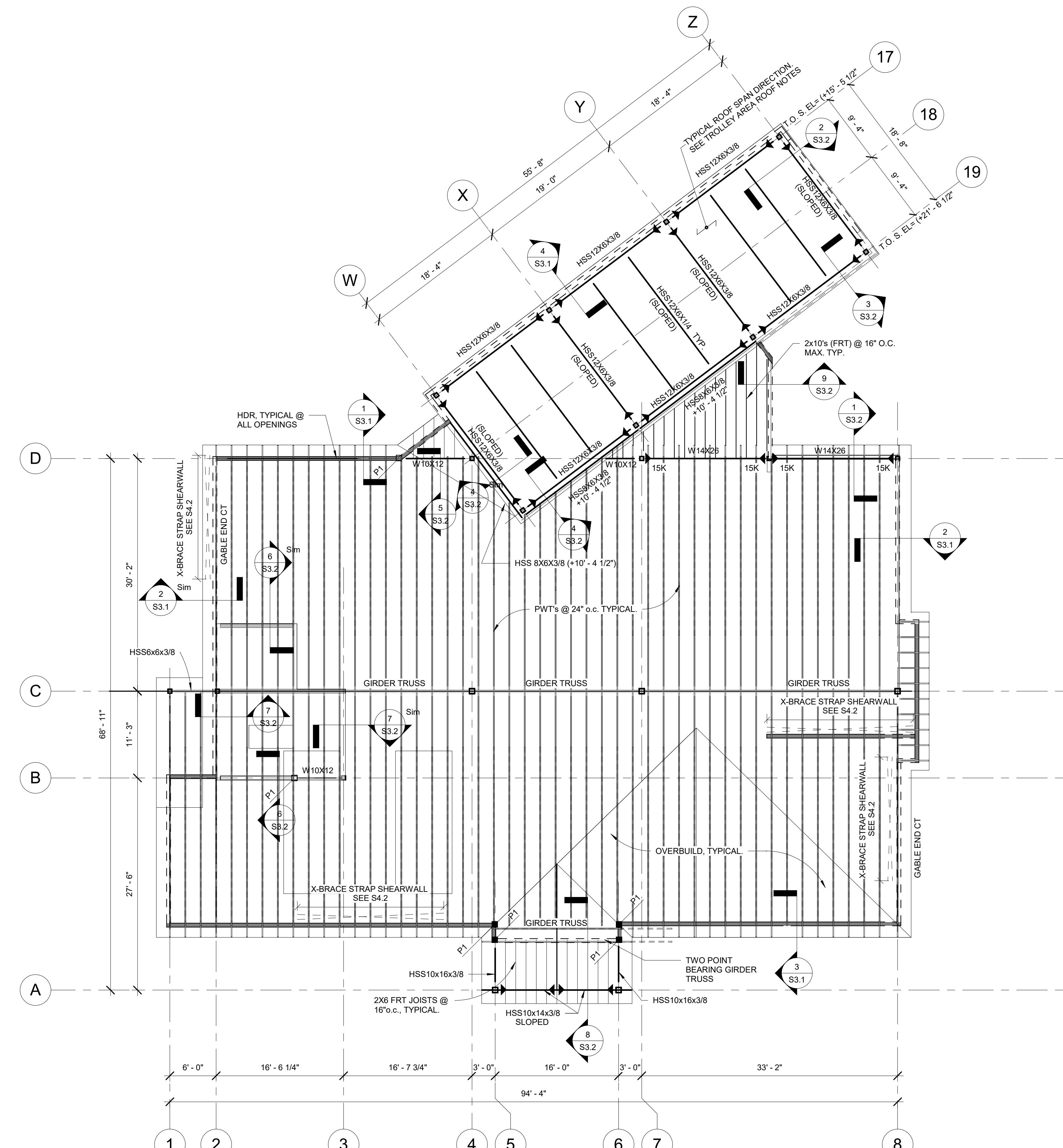
PROJECT STATUS

JOB NUMBER: 17059
ISSUE DATE: 10 APRIL 2018
SCALE: 1/8" = 1'-0"
SHEET TITLE:

ROOF FRAMING PLAN

SHEET NUMBER:

S2.1

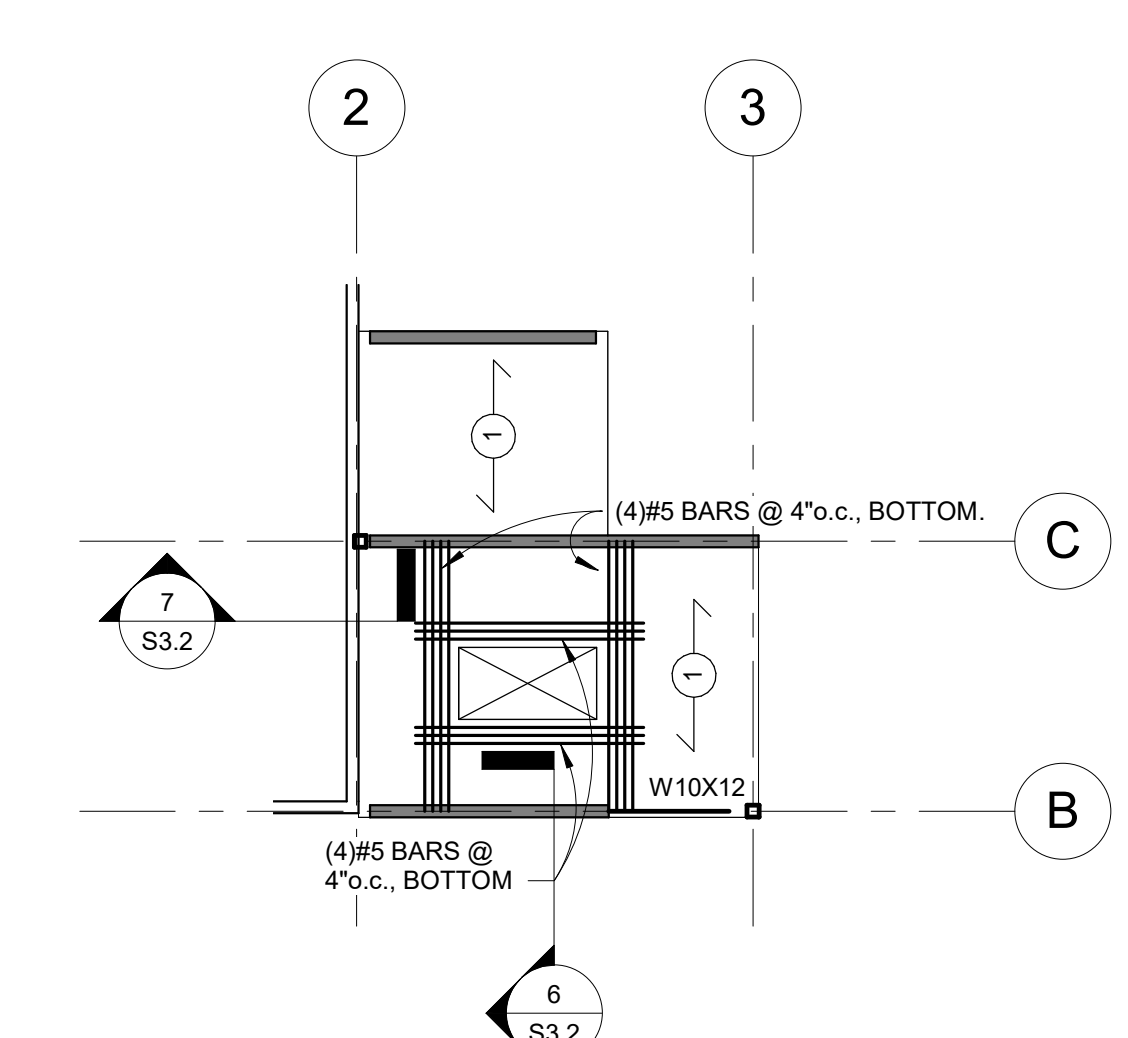


ROOF FRAMING PLAN
1/8" = 1'-0"

- ROOF NOTES:**
- SEE ARCHITECTURAL DRAWINGS FOR ROOF SLOPES AND FINISH MATERIAL OVER PLYWOOD. PLYWOOD SHALL BE FRT 19/32" THICK, APA RATED EXTERIOR GRADE, 32/16 SPAN RATING.
 - T.B.E. DENOTES TRUSS BEARING ELEVATION FROM SLAB ON GRADE ELEVATION (0'-0"). T.B.E. = 10'-0" TYP. U.N.O.
 - PWT DENOTES PREFABRICATED FRT WOOD TRUSSES BY THE WOOD TRUSS FABRICATOR. SEE ADDITIONAL TRUSS NOTES ON SS.1. TRUSS LAYOUT IS CONCEPTUAL. FINAL TRUSS LAYOUT TO BE DETERMINED BY THE ROOF TRUSS SUPPLIER. ALL FRT WOOD TRUSS SHOP DRAWINGS AND CALCULATIONS ARE TO BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE LOCAL JURISDICTION AND DESIGNED FOR THE FOLLOWING MINIMUM LOADS. PREFABRICATED FRT WOOD TRUSS DESIGN SHALL TAKE INTO ACCOUNT ALL UNIFORM AND CONCENTRATED LOADS FROM OTHER FRAMING OR EQUIPMENT SUPPORTED BY THE TRUSSES.
 - ALL NECESSARY FRAMING FOR INFILLS TO CREATE VALLEYS, HIPS, GABLES, ETC., IS TO BE SUPPLIED ALONG WITH ROOF TRUSSES BY ONE SOURCE. GABLES SHALL BE BUILT ON TOP OF TYPICAL TRUSSES TO ENSURE A UNIFORM LOAD ON THE EXISTING STRUCTURE. ANY CONVENTIONAL FRAMING REQUIRED FOR INFILLS SHALL HAVE COMPUTATIONS SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE LOCAL JURISDICTION.
 - GT DENOTES GABLE END TRUSS.
 - CT DENOTES COLLECTOR TRUSS. COLLECTOR TRUSSES SHALL BE PLACED ABOVE ALL SHEAR WALLS. COLLECTOR TRUSSES SHALL BE DESIGNED FOR LATERAL LOADS AS NOTED ON THE CONTRACT DOCUMENTS. PROVIDE BLOCKING TRUSSES AT ALL SHEAR WALLS THAT ARE PERPENDICULAR TO ROOF TRUSS FRAMING. BLOCKING TRUSSES SHALL BE DESIGNED FOR LATERAL LOADS AS NOTED ON THE CONTRACT DOCUMENTS.
 - TOP OF STEEL IS MEASURED FROM TOP OF FLOOR SLAB BELOW AND IS INDICATED THUS (+0'-0"). ALL TOP OF STEEL ELEVATIONS ARE 10'-4 1/2" ABOVE THE SLAB ON GRADE ELEVATION, U.N.O.
 - XXX DENOTES UNFACTORED REACTION OF STEEL BEAMS. REACTIONS ARE 10K U.N.O.
 - SHADED WALLS ARE LOAD BEARING CFS WALLS DESIGNED BY THE SPECIALTY ENGINEER. DESIGN WALLS FOR 1.5 KLF TOTAL AXIAL LOAD PLUS EXTERIOR COMPONENTS AND GLADDING WIND LOADS.
 - P1 DENOTES CONCENTRATED POINT LOADS FOR CFS STUD POSTS BY THE SPECIALTY ENGINEER. DESIGN POSTS FOR 9.0 K TOTAL AXIAL LOAD.
 - HTL DENOTES LINTEL DESIGNED BY THE SPECIALTY ENGINEER.
 - FOR X-BRACE FLAT STRAPPED CFS SHEAR WALL (STRAPS ONE SIDE ONLY) BY THE SPECIALTY ENGINEER. SEE S4.2 FOR LOADS AND DETAILS.
 - DENOTES FULL MOMENT CONNECTION. STEEL CONNECTIONS ARE DELEGATED DESIGN BY THE STEEL SUPPLIER'S ENGINEER. MOMENT CONNECTIONS ARE TO DEVELOP THE FULL MOMENT CAPACITY OF THE BEAM.

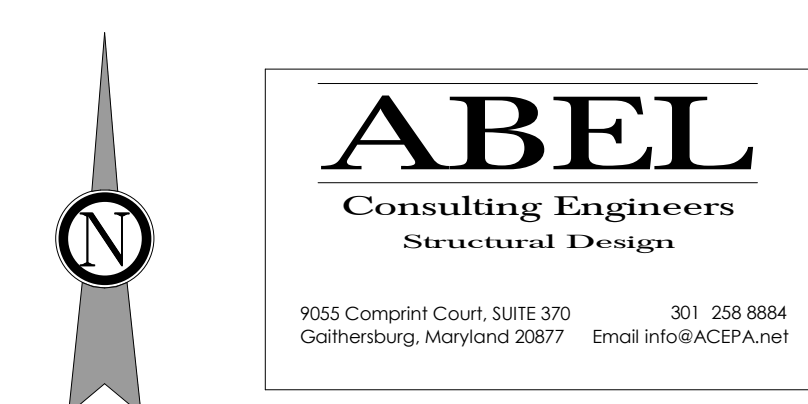
TROLLEY AREA ROOF NOTES:

- THE SLOPED TROLLEY AREA ROOF SYSTEM SHALL BE AS INDICATED ON THE ARCHITECTURAL DRAWINGS ON 1 1/2" GAGE TYPE "B" GALVANIZED METAL ROOF DECK BY YULGRAFT OR EQUIVALENT (3 SPAN MINIMUM). ATTACH ROOF DECK TO STEEL SUPPORTS USING A 36/P PATTERN (EVERY FLUTE WELDED TO STEEL SUPPORT) WITH 2 SIDE LAP FASTENERS.
- NET UPLIFT FORCES ON THE TROLLEY AREA FRAMED ROOF ARE AS NOTED BELOW. THE METAL DECK SUPPLIER SHALL SUBMIT CALCULATIONS TO DEMONSTRATE THAT THE METAL DECK AND THEIR RESPECTIVE CONNECTIONS MEET A 20 PSF NET UPLIFT.



LOFT FRAMING PLAN
1/8" = 1'-0"

- LOFT FLOOR NOTES:**
- FLOOR SYSTEM SHALL BE 6" NORMAL WEIGHT CONCRETE (FC = 4000 PSI, 145 PCF) WITH 6"X6" W2.1XW2.1 WWF ON 22 GAGE 2" DOVE TAIL (FLAT BOTTOM) METAL DECK-SHORED CONSTRUCTION. TOTAL SLAB THICKNESS SHALL BE 6" UNLESS NOTED OTHERWISE.
 - TOP OF LOFT FLOOR SLAB ELEVATION IS PER THE ARCHITECT. SEE ARCHITECTURAL DRAWINGS FOR FLOOR SLAB ELEVATIONS.
 - COORDINATE ALL OPENINGS THROUGH DECK WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. FRAME ALL SLAB OPENINGS WITH REINFORCING BARS PER TYPICAL DETAILS. AT EDGE OF ACCESS OPENING, PROVIDE L6X4X3/8 ANGLE WITH 1/2" DIA. X 6" LONG HEADED STUDS AT 16" O.C.



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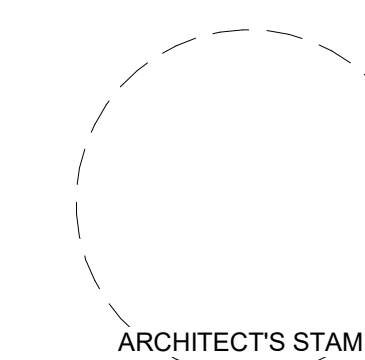
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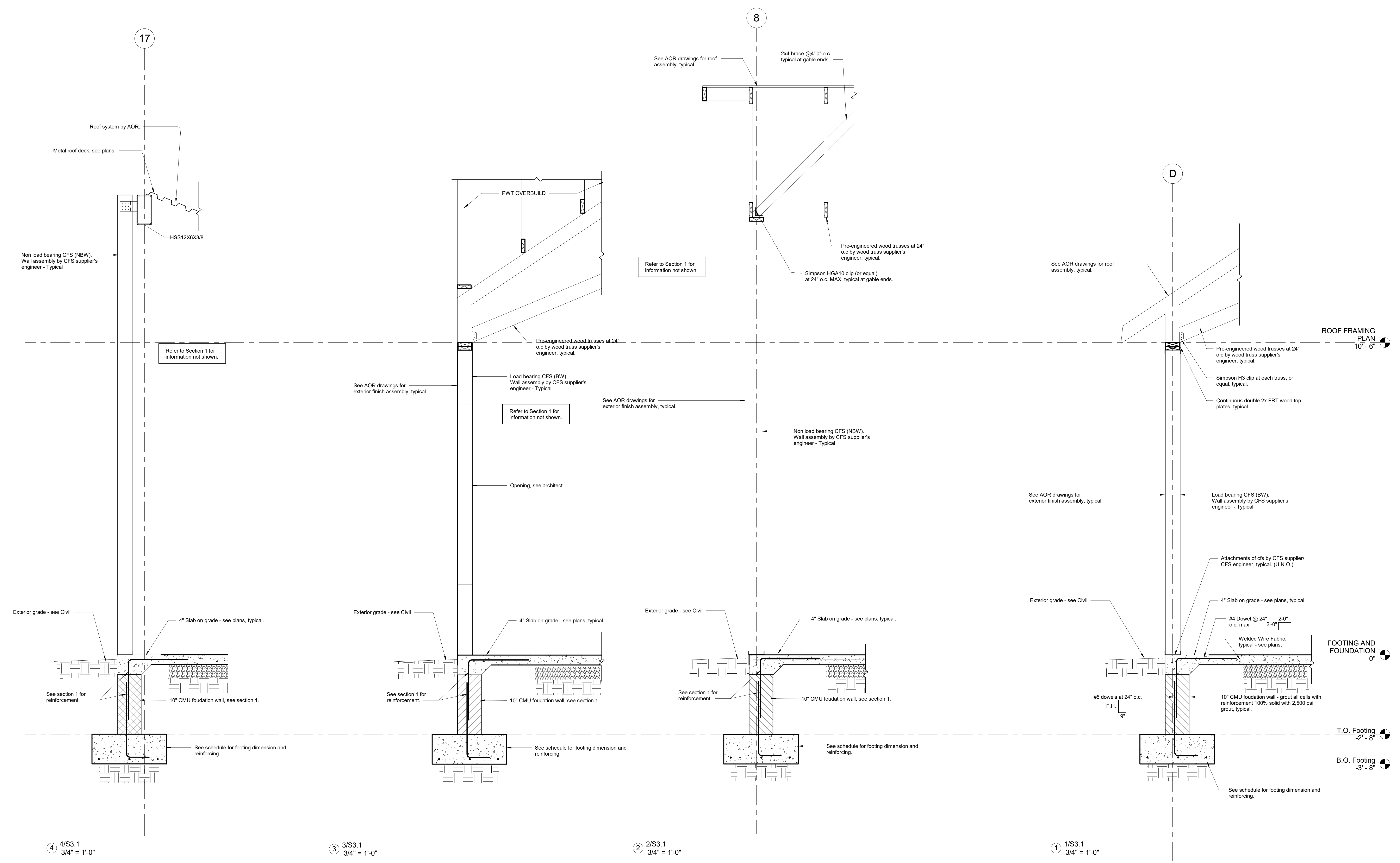


ARCHITECT'S STAMP

REV. #:	DESCRIPTION:	DATE:

JOB NUMBER: 17059
 ISSUE DATE: 10 APRIL 2018
 SCALE: As indicated
 SHEET TITLE:

SHEET NUMBER:
S3.1



4/S3.1
3/4" = 1'-0"

3/S3.1
3/4" = 1'-0"

2/S3.1
3/4" = 1'-0"

1/S3.1
3/4" = 1'-0"



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 Structural Design
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STRUCTURAL ENGINEER

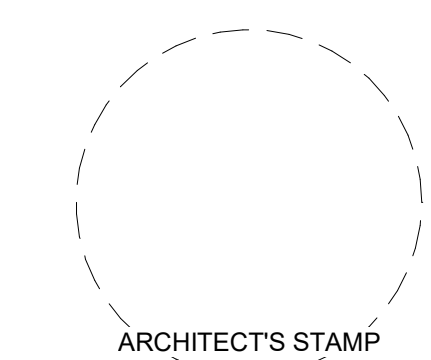
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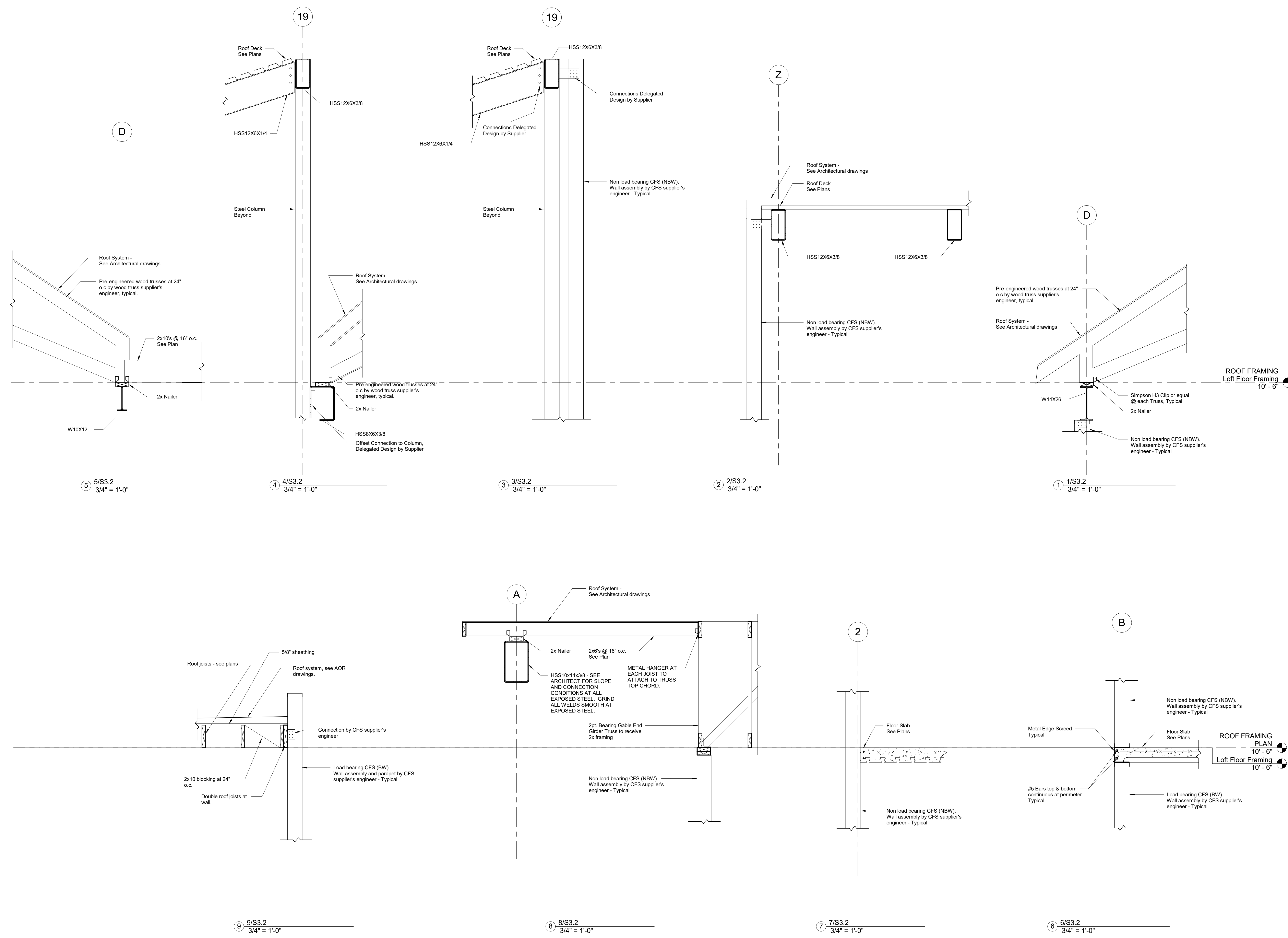
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SECTIONS

SHEET NUMBER:

S3.2



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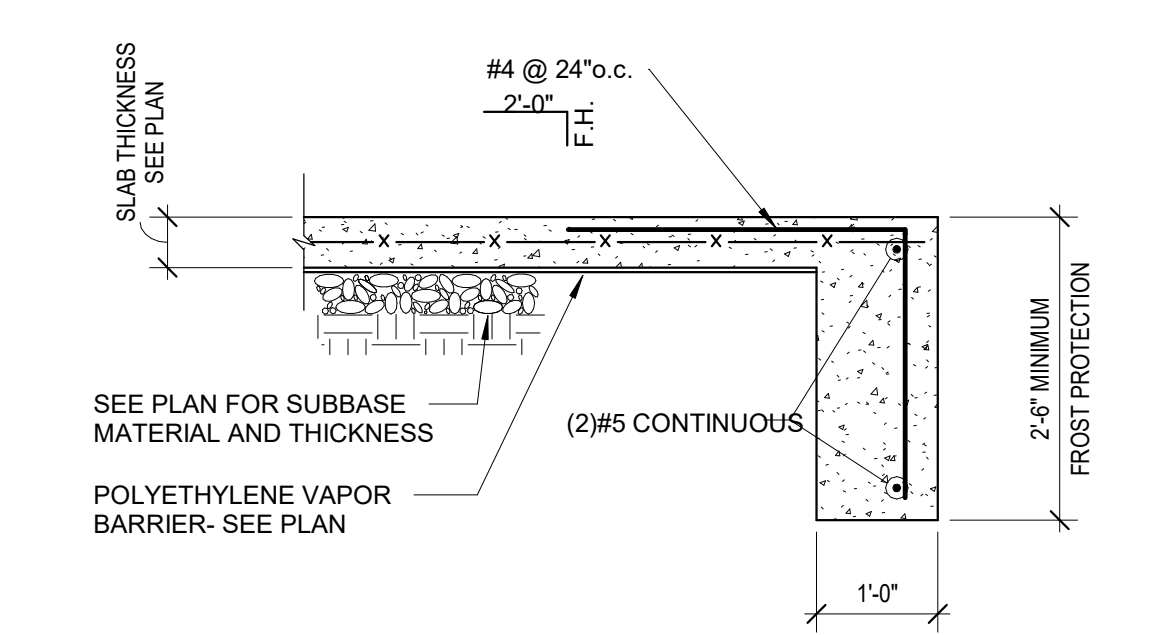
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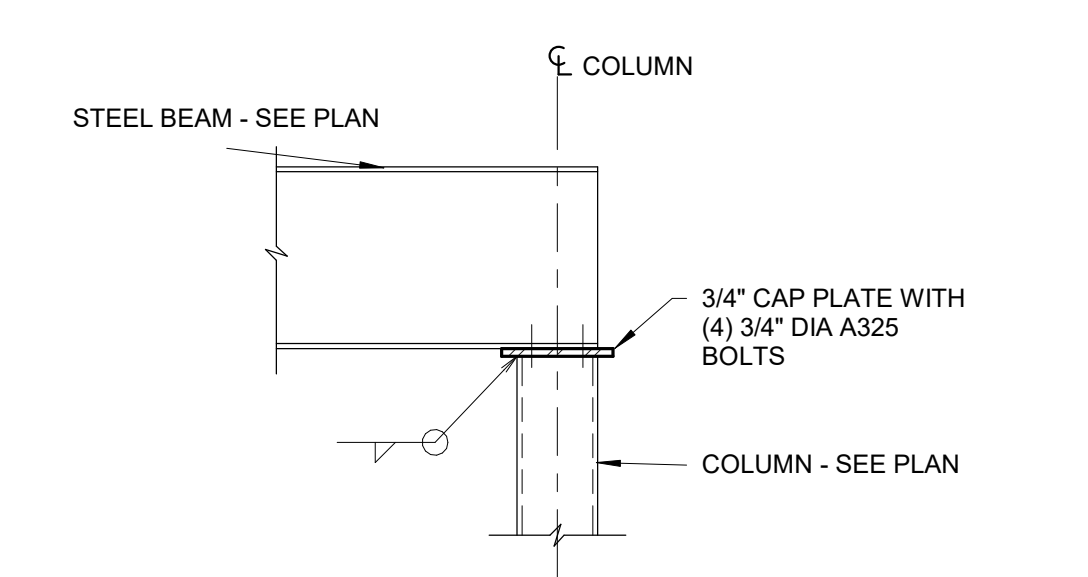
TYPICAL DETAILS

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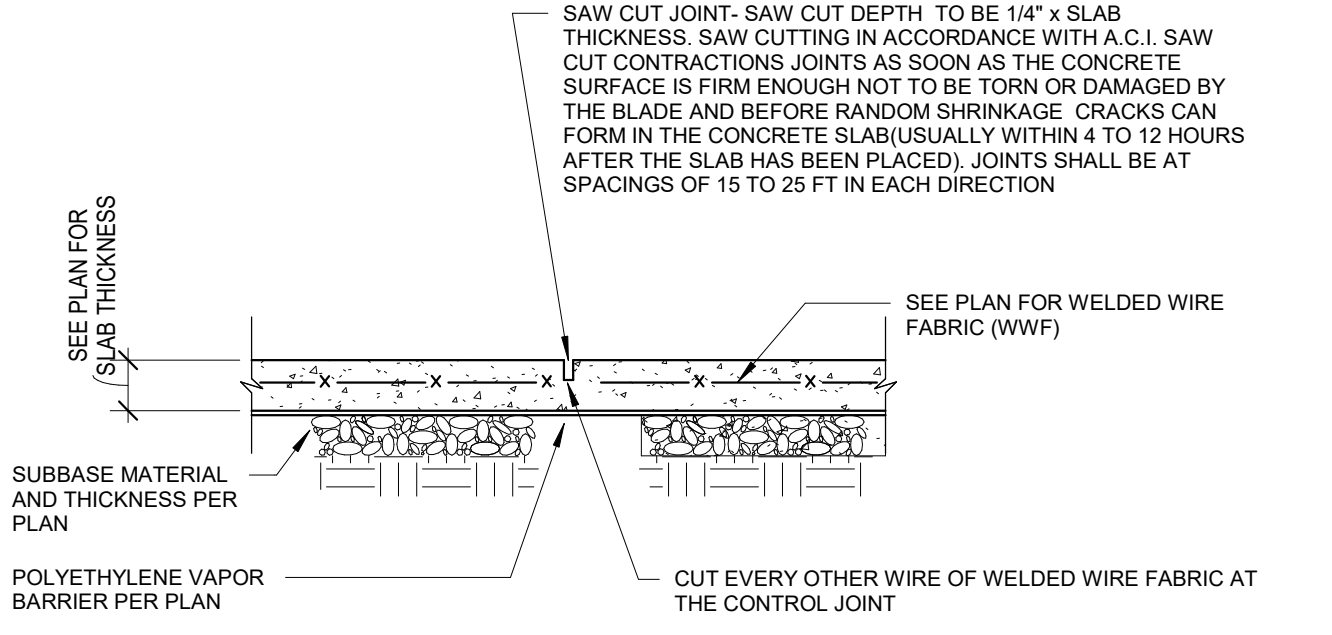
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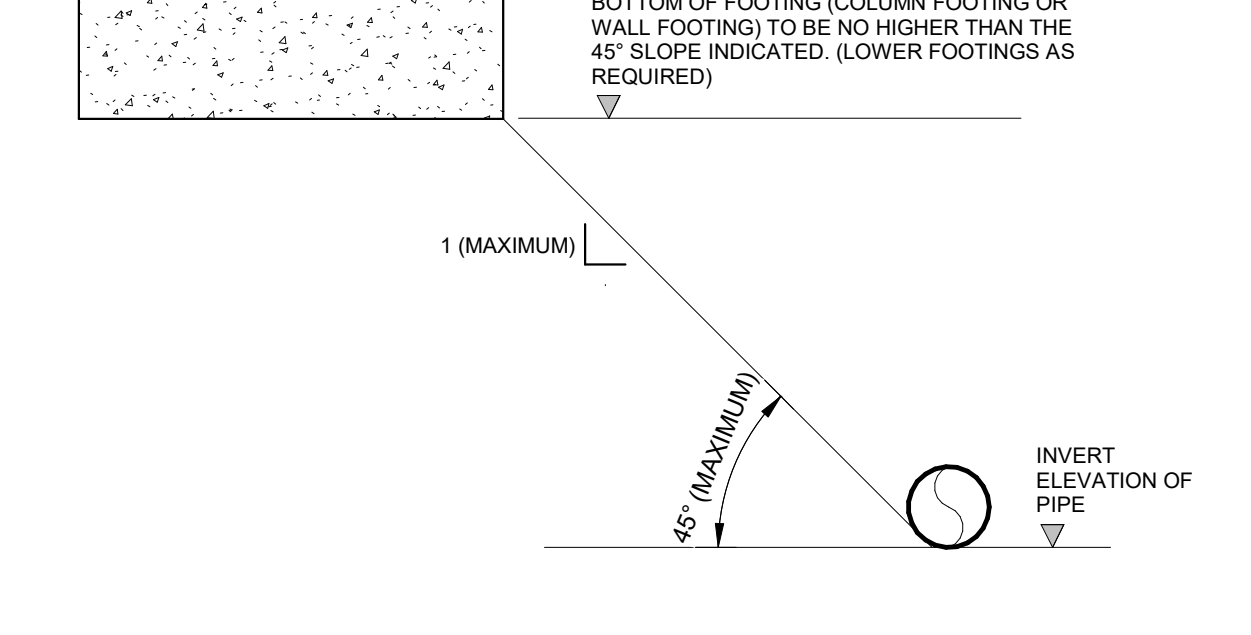
TYPICAL TURNED DOWN SLAB
T3300.19 N.T.S.



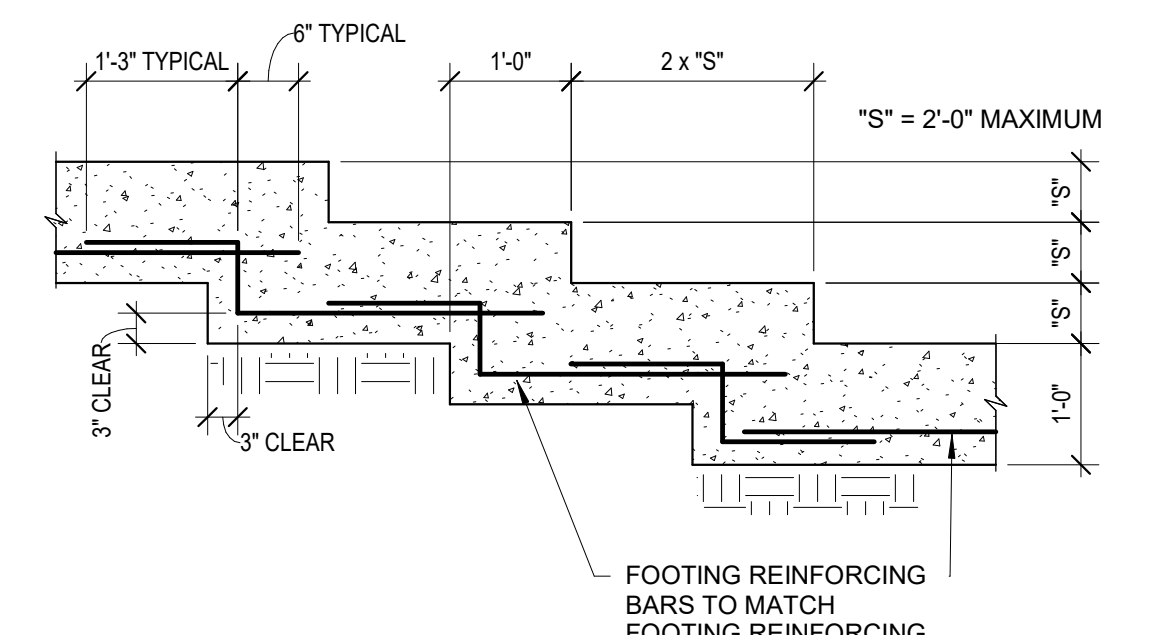
TYPICAL BEAM OVER TUBE OR PIPE COLUMN CONNECTION
T5120.02 N.T.S.



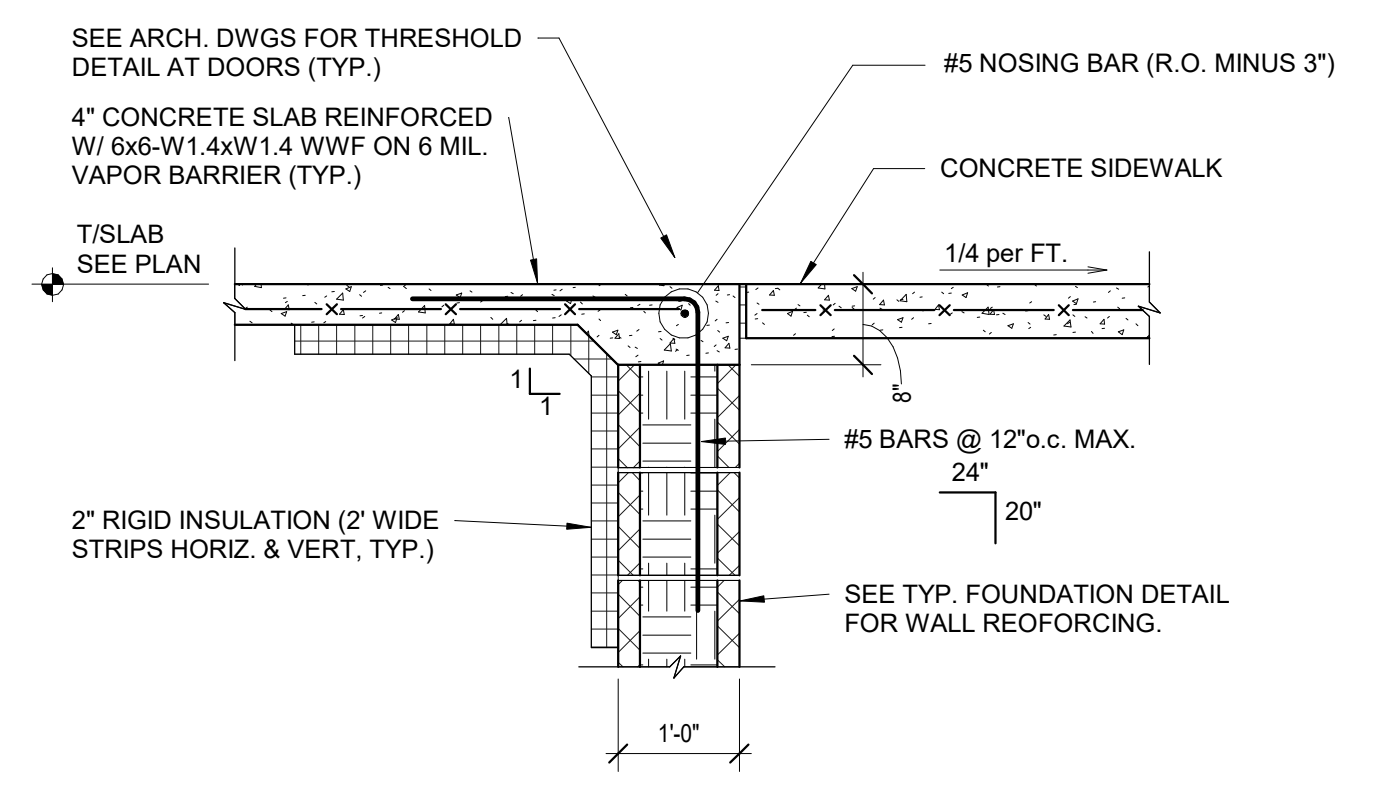
TYPICAL CONTRACTION JOINT - SAW CUT
T3300.05 N.T.S.



TYPICAL PIPE INVERT AND FOOTING RELATIONSHIP
T2384.01 N.T.S.



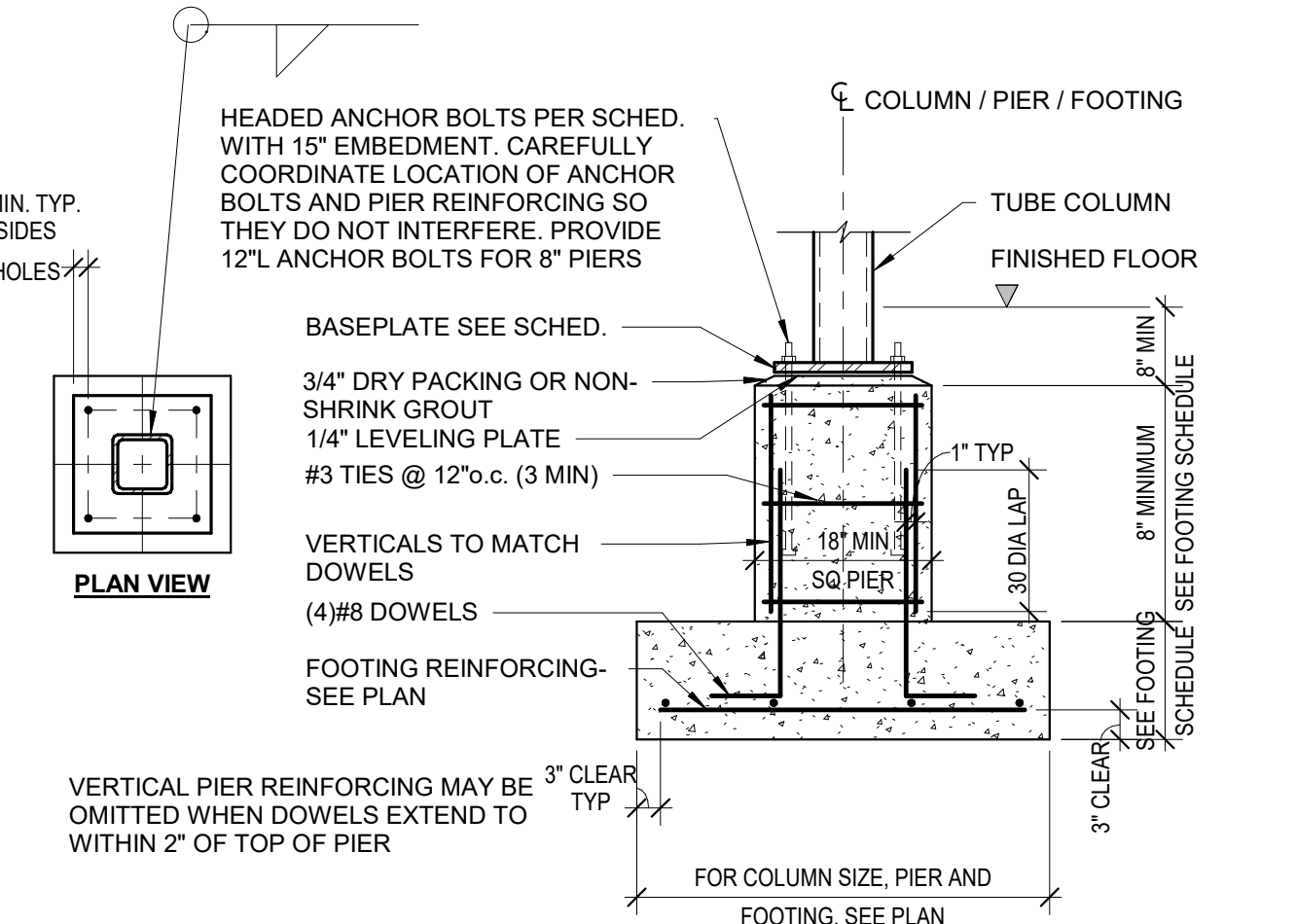
TYPICAL STEPPED FOOTING
T3300.39 N.T.S.



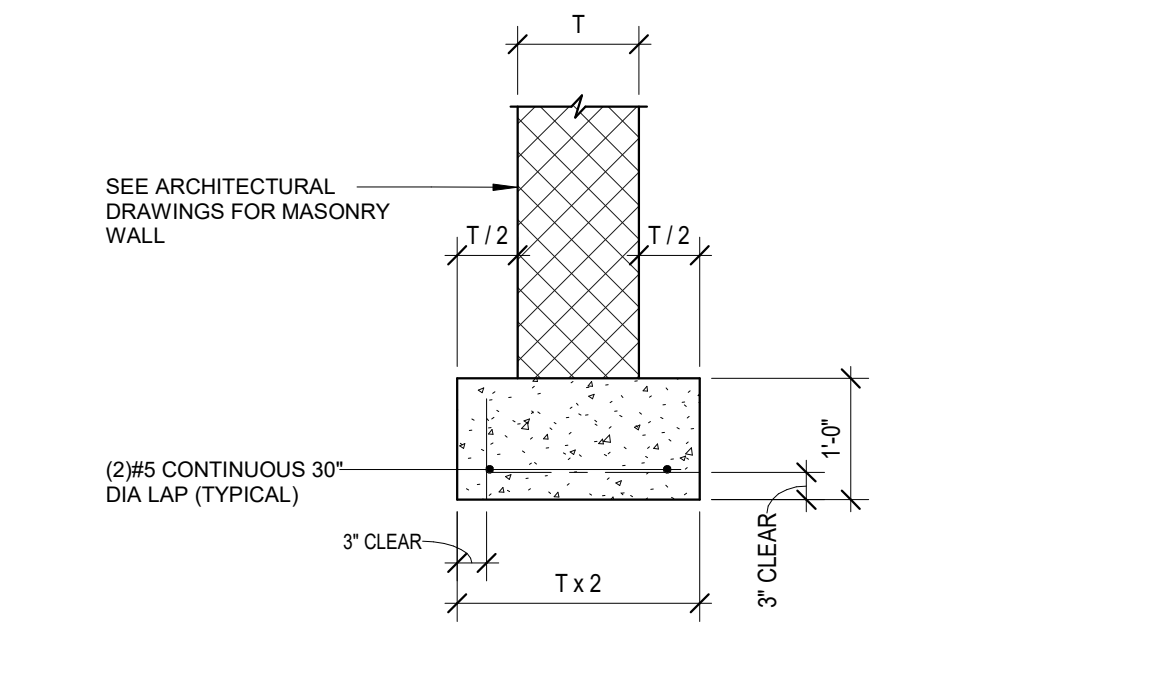
FOUNDATION AT DOOR DETAIL
T3300.79 N.T.S.

SCHEDULE

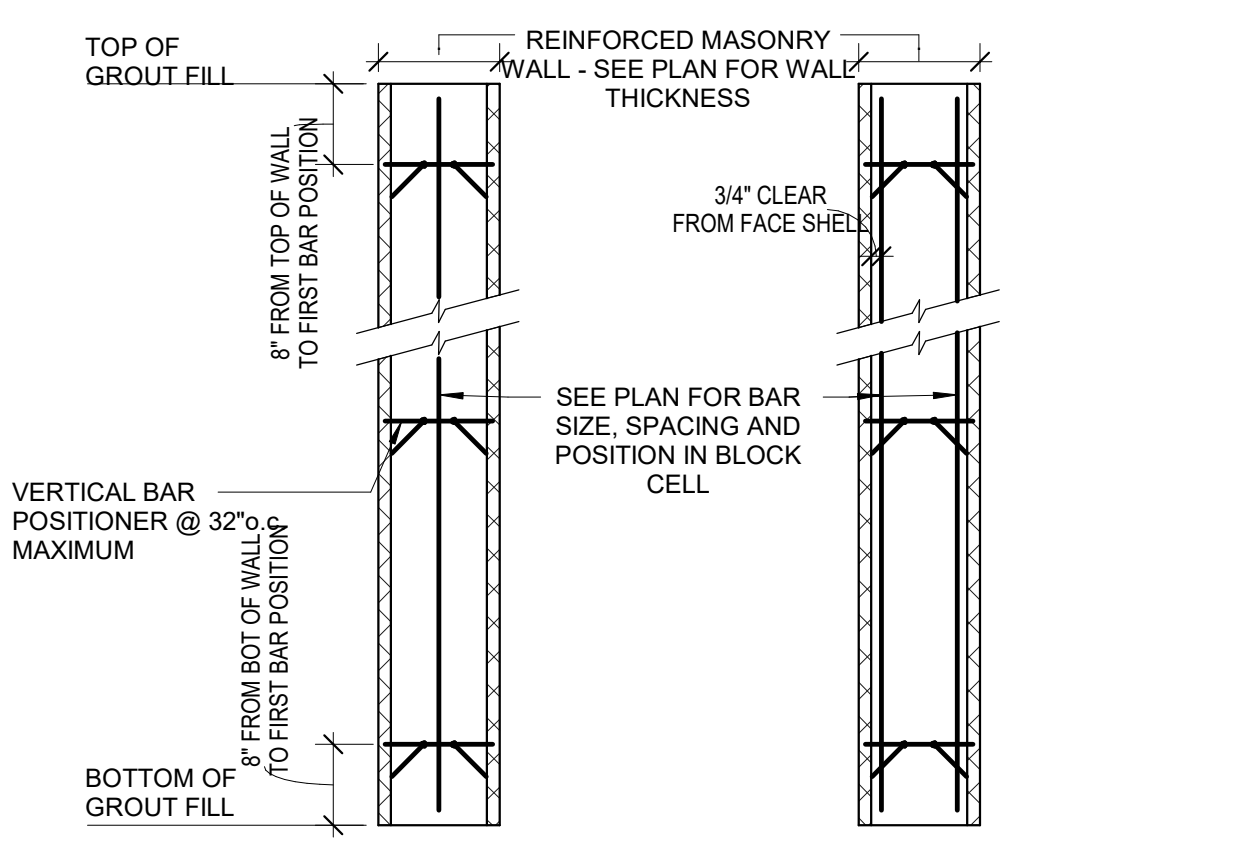
COLUMN SIZE	PIER SIZE (IN.)	ANCHOR BOLTS	BASEPLATE
HSS 6x6	18 x 18	(4) 1" DIA.	1 1/4" x 14" x 14"
HSS 8x8	20 x 20	(4) 1" DIA.	1 1/4" x 16" x 16"



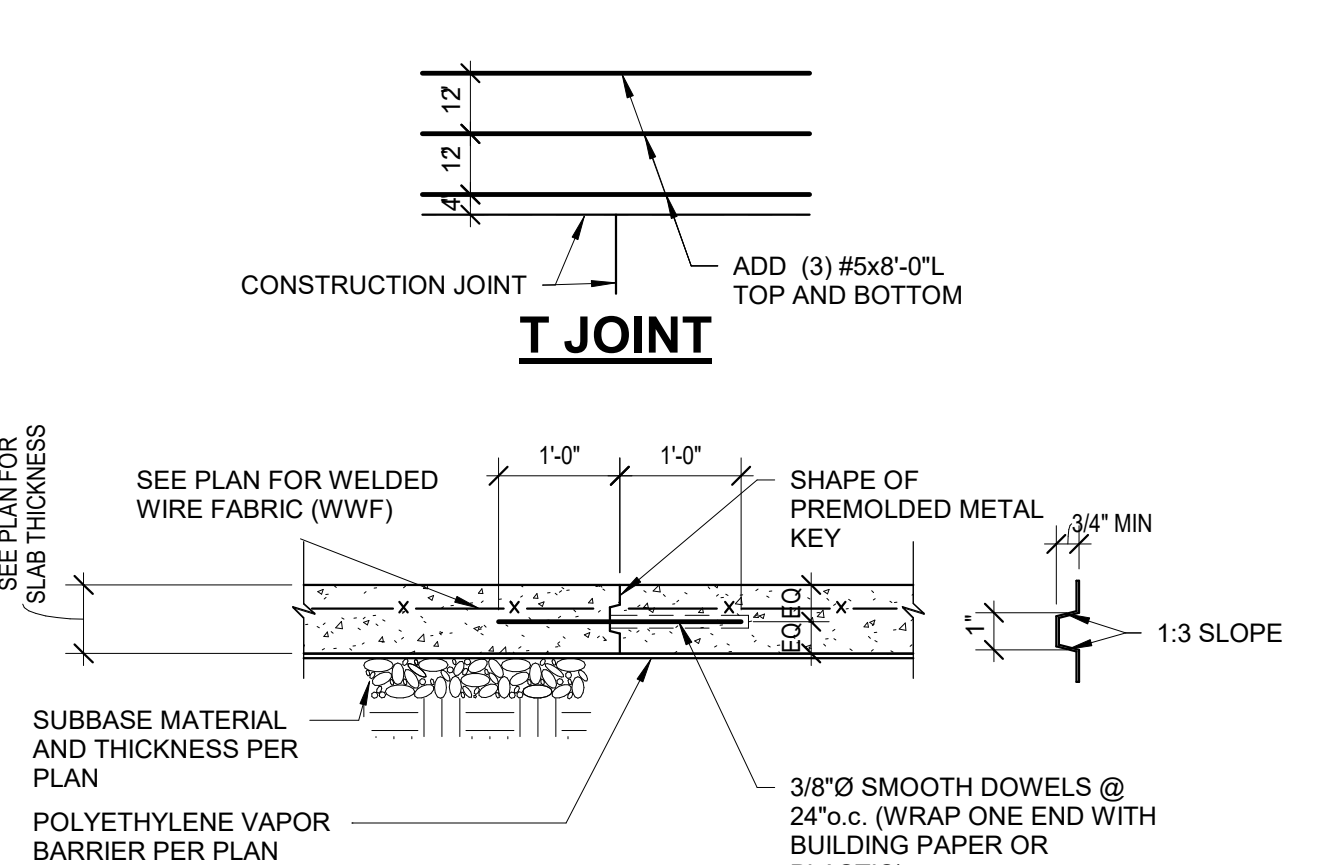
TYPICAL COLUMN, PIER AND FOOTING
T3300.40 N.T.S.



TYPICAL MASONRY WALL FOOTING
T3300.27 N.T.S.



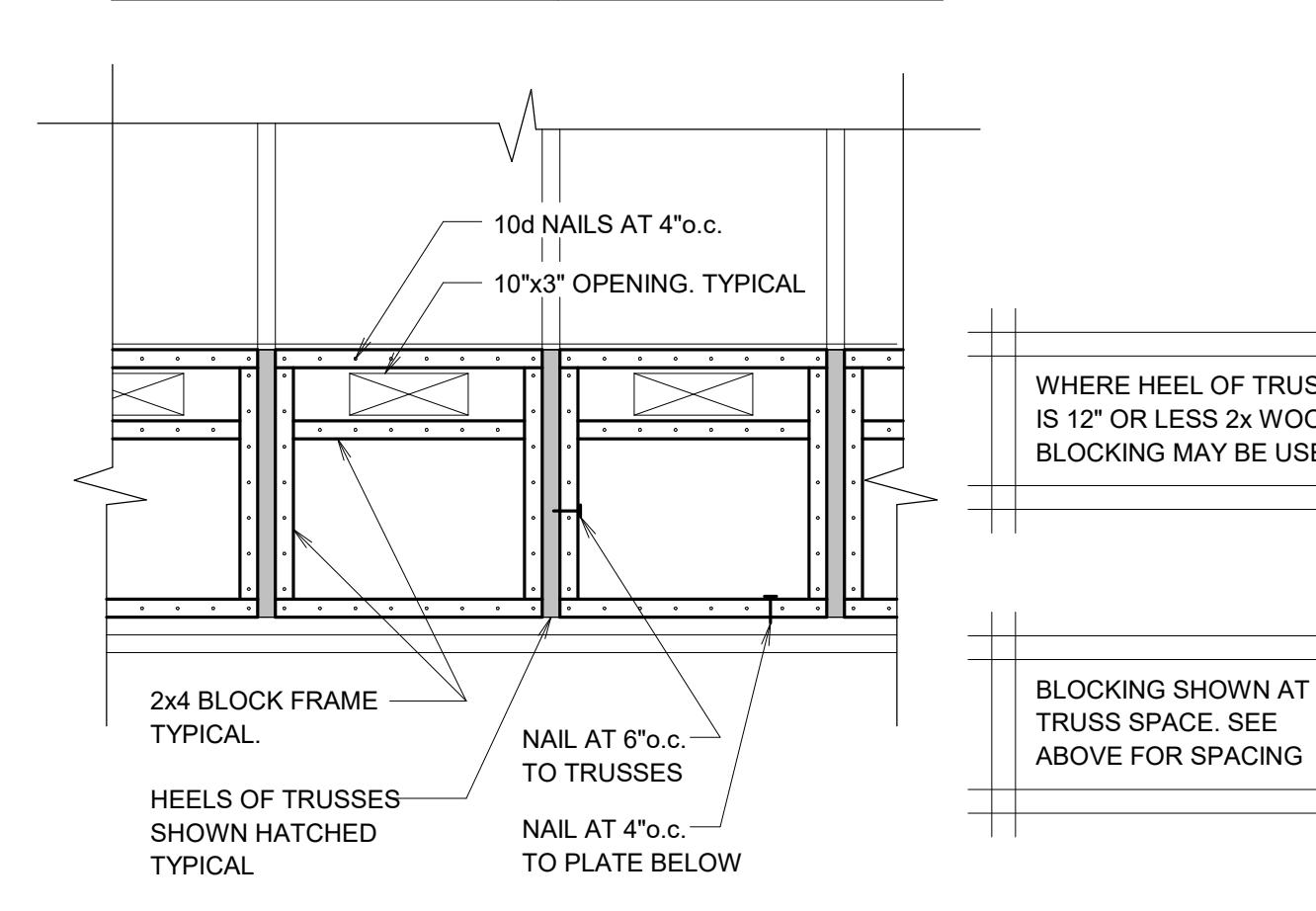
TYPICAL REINFORCED MASONRY WALL DETAILS
T4230.03 N.T.S.



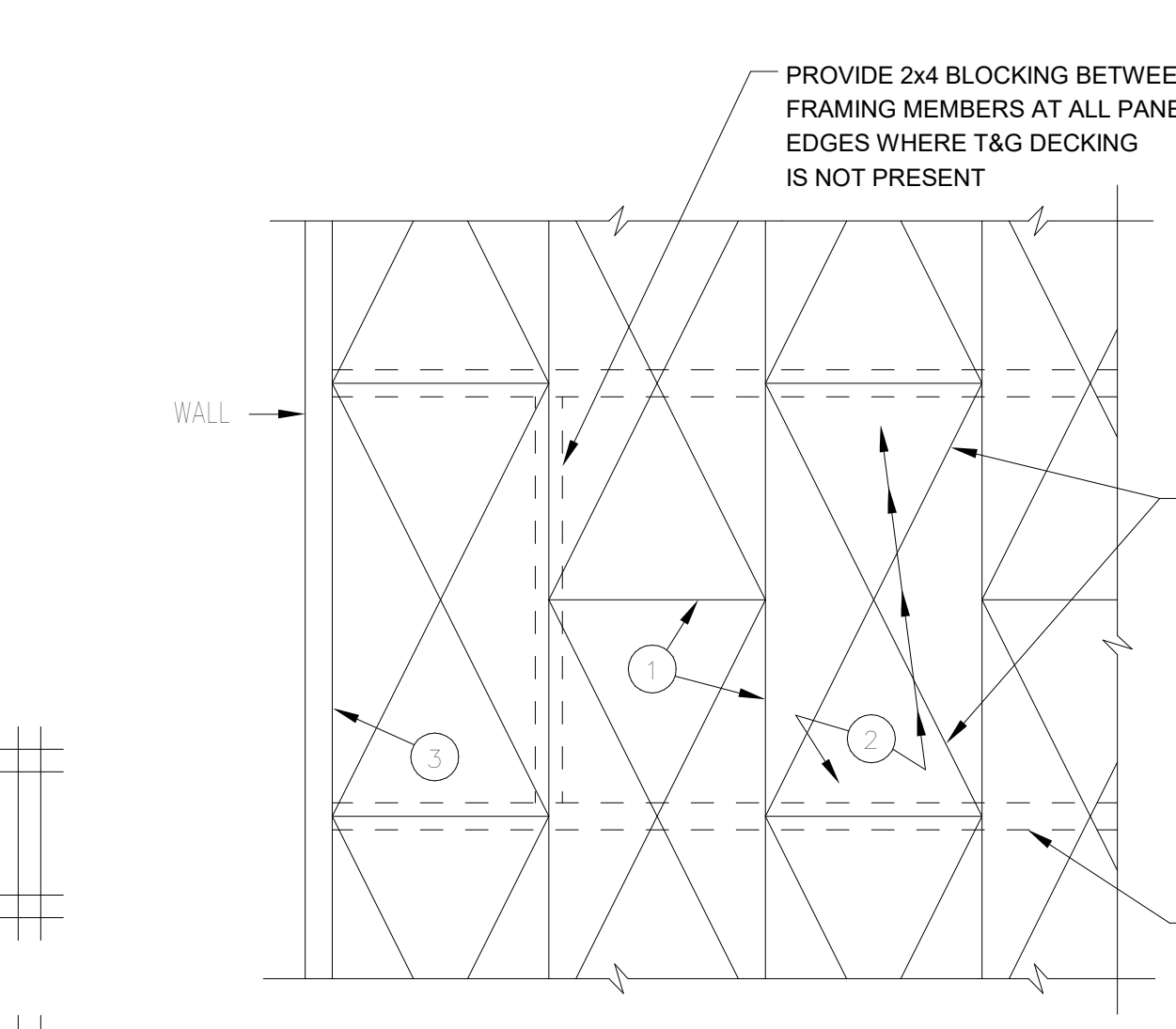
TYPICAL CONSTRUCTION JOINT - PREMOLDED METAL KEY
T3300.01 N.T.S.

BLOCKING DETAIL REQUIREMENTS:

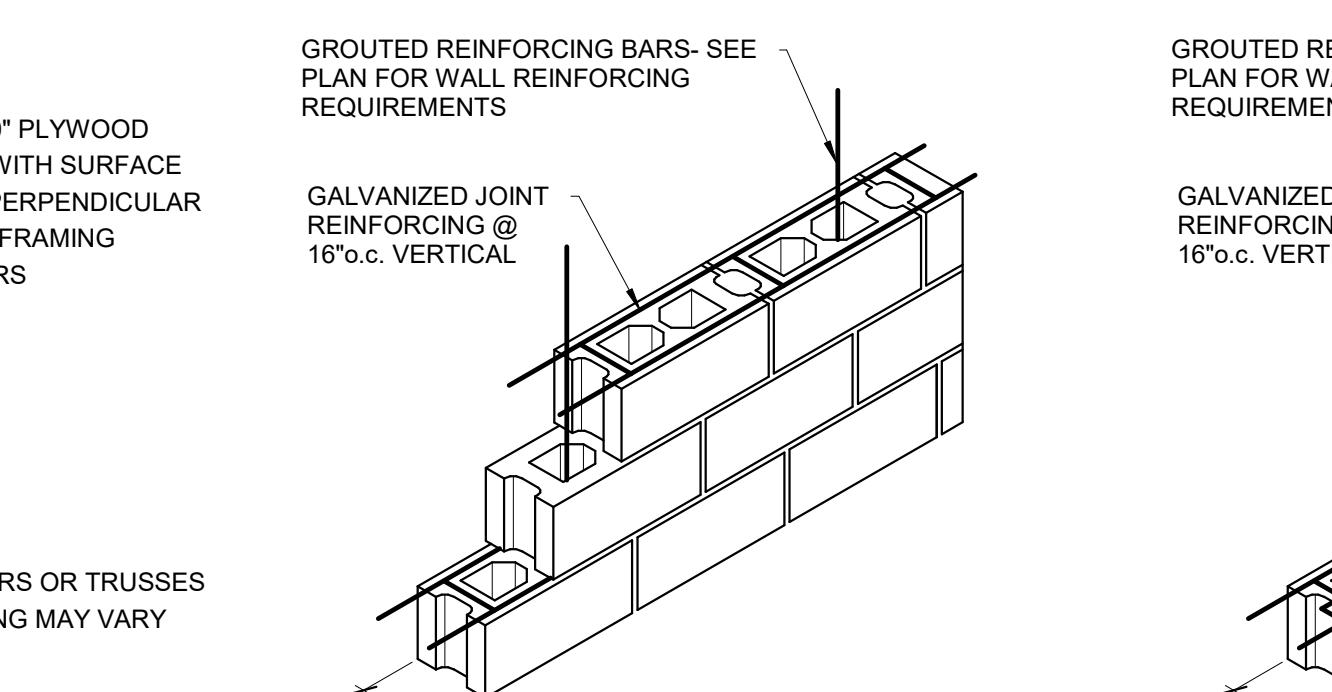
LOCATION	SPACING
DIRECTLY ABOVE SHEAR WALLS	EVERY OTHER TRUSS SPACE
ALL OTHER LOCATIONS	EVERY 4TH TRUSS SPACE AT LEAST 2 PER WALL RUN



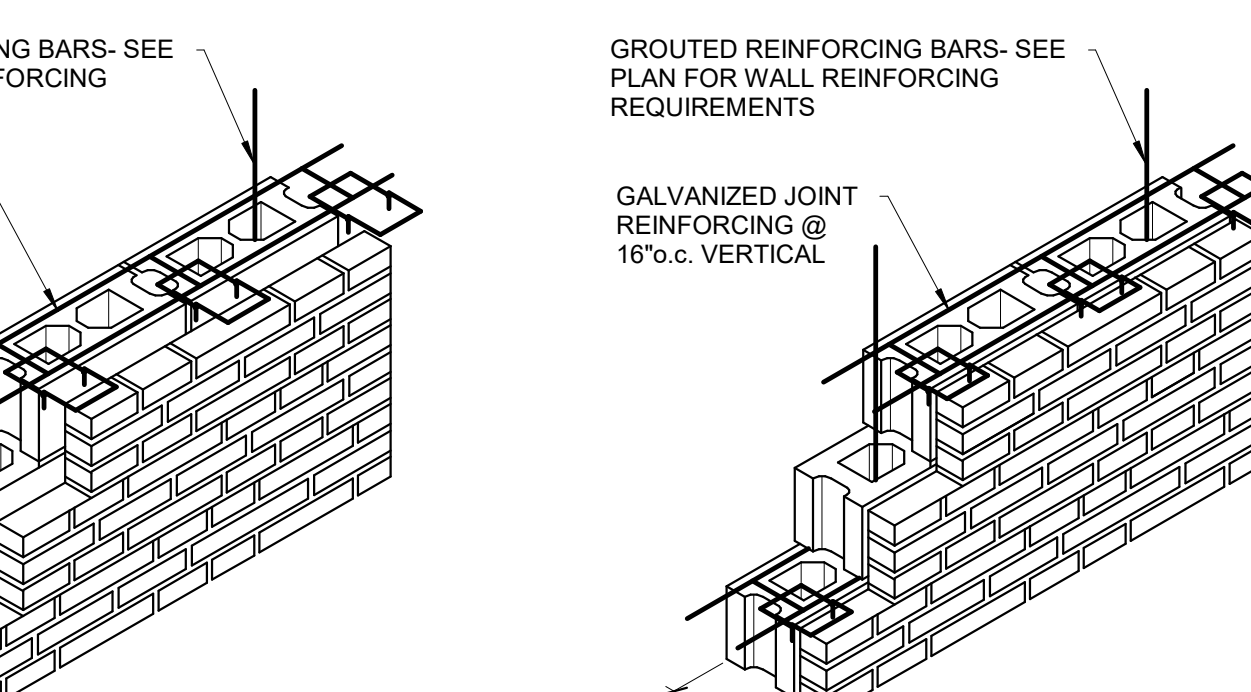
TYPICAL TRUSS HEEL BLOCKING DETAIL
T6200.20 N.T.S.



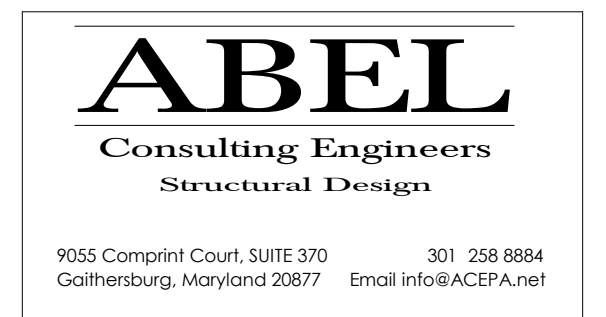
TYPICAL PLYWOOD DIAPHRAGM LAYOUT
T6200.02 N.T.S.



TYPICAL PREFABRICATED ADJUSTABLE METAL JOINT REINFORCING IN VERTICALLY REINFORCED MASONRY WALLS
T4230.07 N.T.S.



TYPICAL WOOD JOIST/TRUSS ANCHOR CONNECTION DETAIL
T6200.17 N.T.S.



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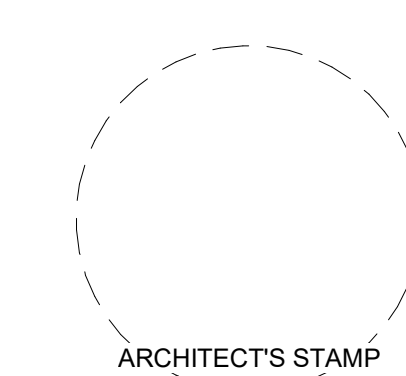
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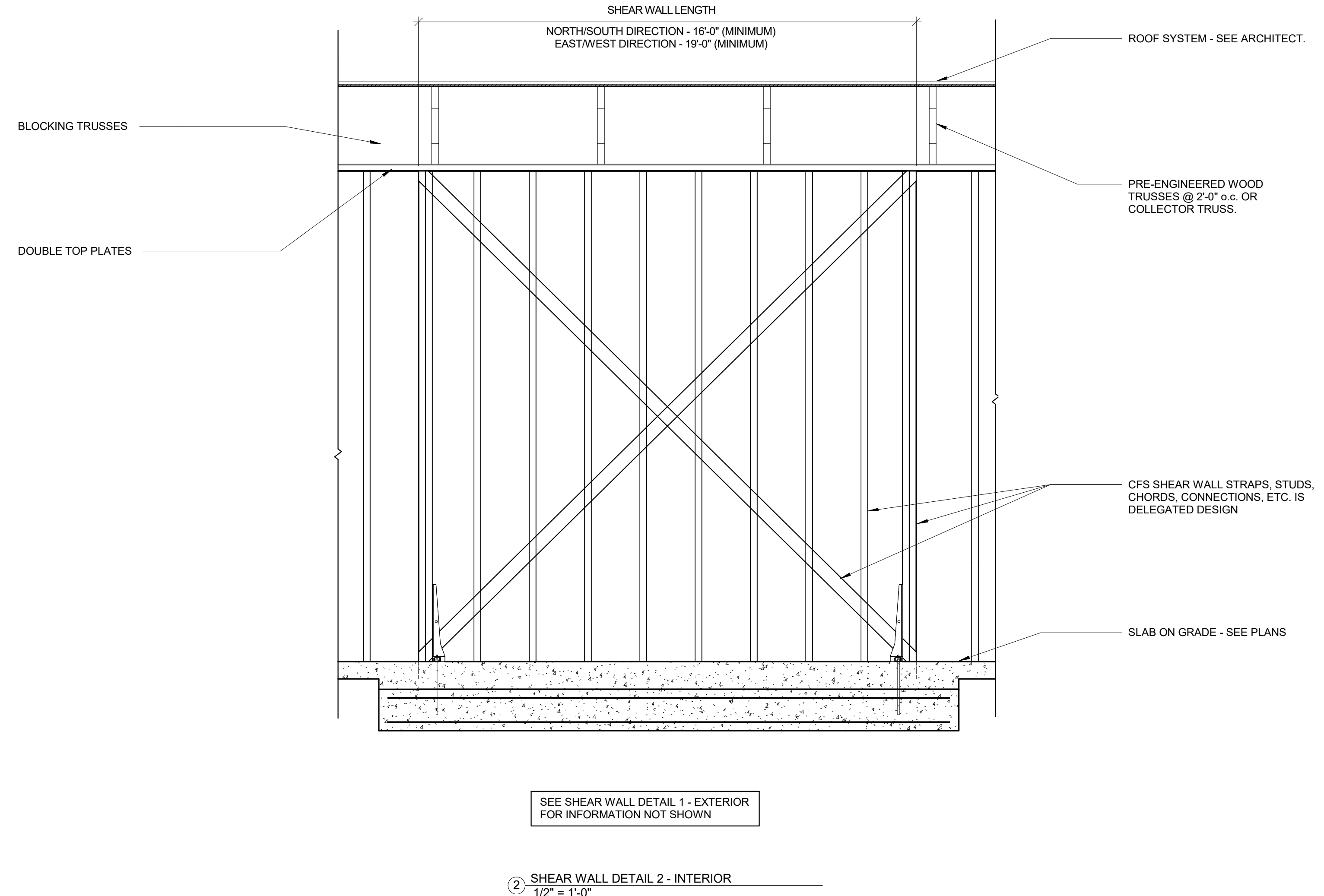
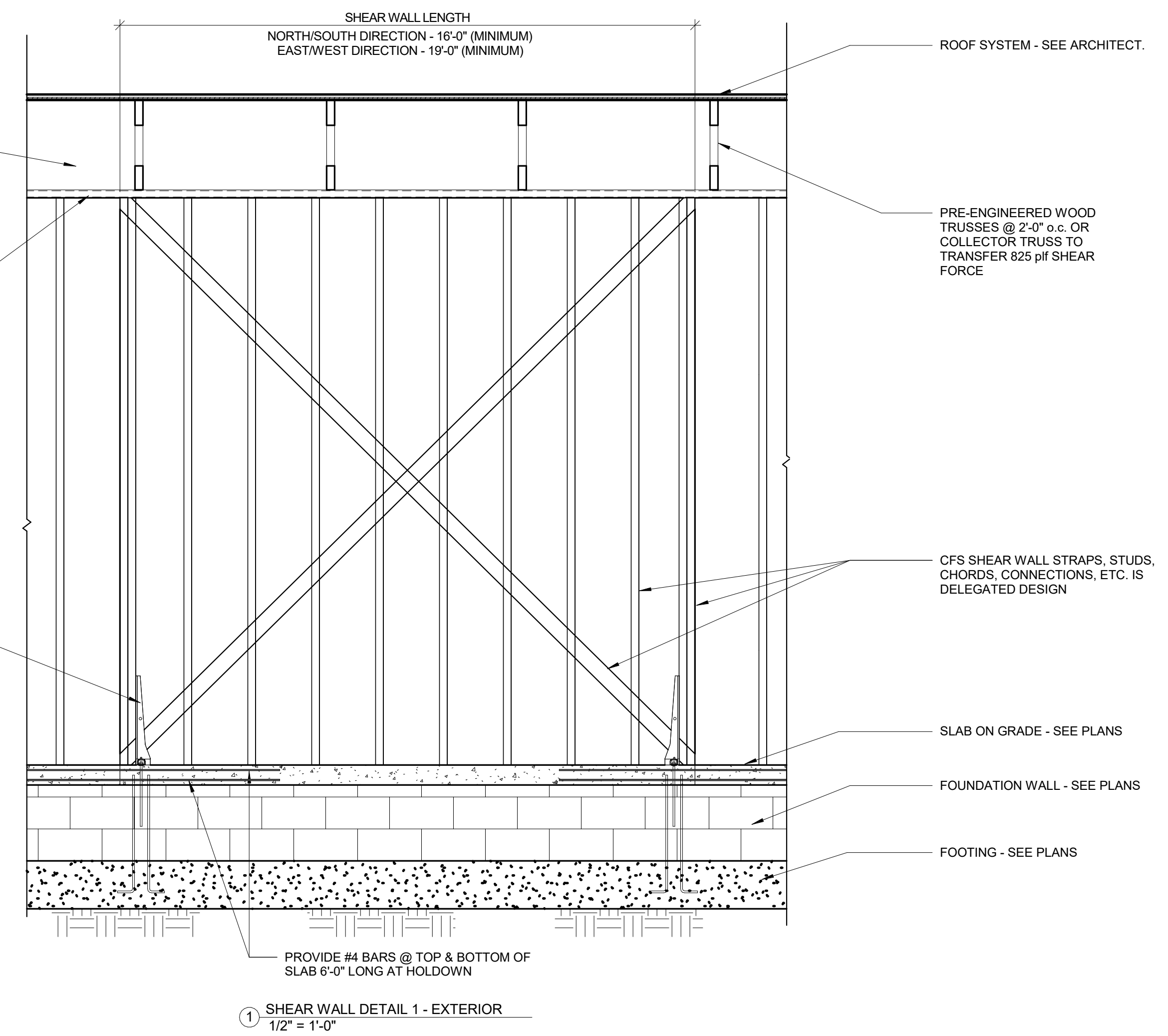
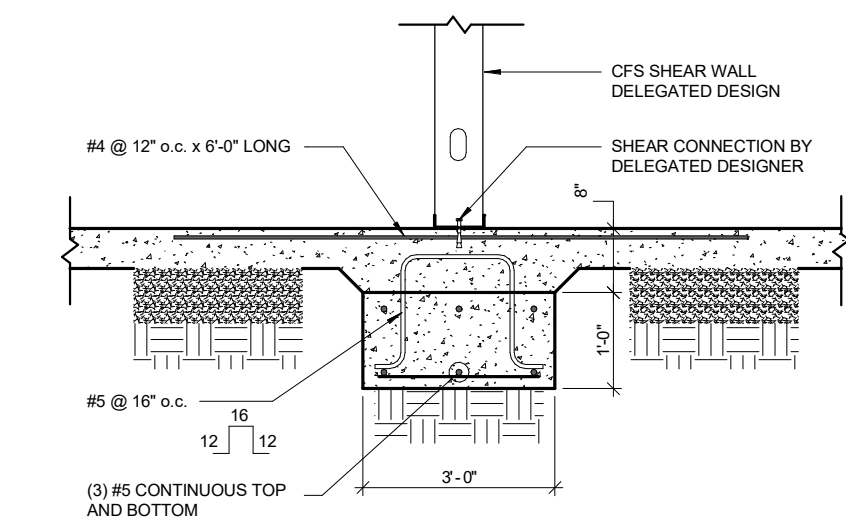
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SHEAR WALL DETAILS

SHEET NUMBER:

S4.2

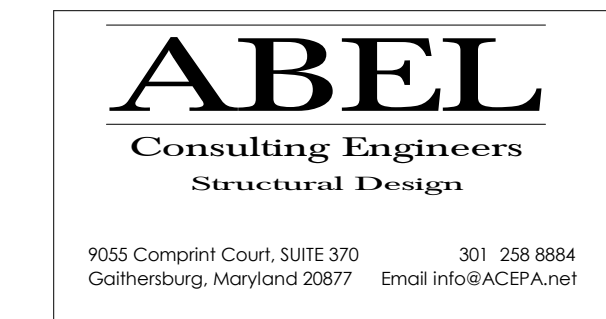


SHEAR WALL LOAD SCHEDULE

	WIND LOADING		SEISMIC LOADING		TYPE
	LOAD AT TOP OF WALL	LOAD AT TOP OF WALL	LOAD AT TOP OF WALL	LOAD AT TOP OF WALL	
SW-NORTH/SOUTH DIR.	13.2	3.5 k	3.5 k	3.5 k	FLAT STRAP - X-BRACE
SW-EAST/WEST DIR.	6.6 k	3.5 k	3.5 k	3.5 k	FLAT STRAP - X-BRACE

- NOTES:
1. LOADS ARE FACTORED (ASD).
2. DESIGN OF CFS SHEAR WALLS IS DELEGATED DESIGN.

- NOTES:
1. ALL SHEAR WALL ELEMENTS & CONNECTIONS ARE DELEGATED DESIGN.
2. ALL STUDS TO BE 6" - 18 GAGE MINIMUM.
3. SEE SCHEDULE FOR ASD FACTORED LOADS.
4. ALL CMU CELLS WITH REBAR TO BE GROUTED 100% SOLID w/ f_c = 2500 psi GROUT.



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DIVISION 1 - GENERAL REQUIREMENTS

THE STRUCTURAL DRAWINGS INDICATE THE FINAL CONDITION/CONFIGURATION OF THE BUILDING STRUCTURE. MEANS AND METHODS USED BY THE CONTRACTOR TO ACHIEVE THE FINAL CONDITION/CONFIGURATION OF THE BUILDING STRUCTURE ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

STRUCTURAL DETAILS SHOW BASIC STRUCTURAL CONDITIONS. IT IS INTENDED THAT THESE DRAWINGS BE USED IN CONJUNCTION WITH THE CONTRACT DOCUMENTS FROM ALL DISCIPLINES. STRUCTURAL WORK MUST BE COORDINATED WITH THE DOCUMENTS OF THE OTHER DISCIPLINES CONTAINED IN THE CONTRACT SET.

SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS SHALL BE SUBMITTED BY THE CONTRACTOR.

WHEN THE STRUCTURAL CONTRACT DOCUMENTS HAVE BEEN REPRODUCED FOR SHOP DRAWING PREPARATION THE COMPANY WHICH PREPARED THE SHOP DRAWINGS SHALL ASSUME THE SOLE RESPONSIBILITY FOR ALL STRUCTURAL INFORMATION SHOWN ON THE SHOP DRAWINGS AS IF THEY WERE PREPARED BY THAT COMPANY. THE COMPANY PREPARING THESE SHOP DRAWINGS SHALL CHECK ALL DIMENSIONS, ELEVATIONS, AND OTHER STRUCTURAL INFORMATION IN THE REPRODUCED CONTRACT DOCUMENTS.

AT THE TIME OF SHOP DRAWING SUBMISSION THE CONTRACTOR SHALL STATE IN WRITING ANY DEVIATIONS OR OMISSIONS FROM THE CONTRACT DOCUMENTS.

THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS BEFORE SUBMISSION AND MAKE ALL CORRECTIONS DEEMED NECESSARY.

THE CONTRACTOR SHALL ALLOW A MINIMUM OF 10 WORKING DAYS FOR STRUCTURAL REVIEW OF SHOP DRAWINGS.

LOADS GREATER THAN THE DESIGN LIVE LOADS SHALL NOT BE PLACED ON THE STRUCTURE DURING OR AFTER CONSTRUCTION.

SEE MECHANICAL OR ARCHITECTURAL DRAWINGS FOR HOLES IN SLABS NOT SHOWN.

THE TERM DELEGATED DESIGN SHALL MEAN THAT THE SELECTED BUILDING COMPONENT IS DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION. DESIGN CALCULATIONS AND SHOP DRAWINGS FOR THE SELECTED BUILDING COMPONENTS SHALL BE SIGNED AND SEALED AND SUBMITTED FOR REVIEW. THE DELEGATED DESIGN ENGINEER SHALL SUBMIT A CERTIFICATE OF LIABILITY INSURANCE WITH THE SIGNED AND SEALED CALCULATIONS AND SHOP DRAWINGS.

CONTRACTOR SHALL HAVE ALL TEMPORARY FORMWORK, SHEETING, SHORING, AND UNDERPINNING, ETC., NECESSARY TO CONSTRUCT THE STRUCTURE DESIGNED BY A QUALIFIED REGISTERED ENGINEER REGISTERED IN THE LOCAL JURISDICTION. THE CONTRACTOR SHALL SUBMIT ONE COPY OF ALL TEMPORARY FORMWORK, SHEETING, SHORING, UNDERPINNING, ETC., SIGNED AND SEALED BY THE REGISTERED ENGINEER ALONG WITH A CERTIFICATE OF PROFESSIONAL LIABILITY INSURANCE FOR THE QUALIFIED REGISTERED ENGINEER. THIS SUBMISSION WILL NOT BE A SHOP DRAWING SUBMITTED FOR REVIEW. THIS SUBMISSION WILL BE FOR RECORD PURPOSES TO DEMONSTRATE THE DESIGN HAS BEEN PERFORMED BY A REGISTERED PROFESSIONAL ENGINEER.

ABEL CONSULTING ENGINEERS, P.A. WILL NOT BE RESPONSIBLE FOR TEMPORARY FORMWORK, SHEETING, SHORING, UNDERPINNING, ETC. NECESSARY TO INSTALL WORK CONTAINED WITHIN THESE DOCUMENTS.

ALL WORK SPECIFIED HEREIN SHALL BE INSPECTED IN ACCORDANCE WITH THE BUILDING CODE. ALL LOCAL ORDINANCES AND THE CONTRACT DOCUMENTS. ALL INSPECTION WORK MUST BE PERFORMED UNDER THE DIRECT SUPERVISION OF AN ENGINEER REGISTERED IN THE LOCAL JURISDICTION.

ABEL CONSULTING ENGINEERS, P.A. WILL NOT PERFORM THE REQUIRED INSPECTION AS PART OF THEIR DESIGN SERVICE. ABEL CONSULTING ENGINEERS, P.A. MAY VISIT THE SITE TO ASCERTAIN GENERAL PERFORMANCE TO THE CONTRACT DOCUMENTS BUT, SUCH VISITS ARE NOT BE CONSTRUED AS MEETING INSPECTION REQUIREMENTS.

ALL STAIRS, RAILINGS, GLASS, STOREFRONT, AND EXTERIOR CEILINGS SHALL BE DESIGNED FOR LOADS INDICATED ON THE DRAWINGS AND IN THE LOCAL BUILDING CODE. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND STAMPED BY REGISTERED PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION.

ALL REFERENCED STANDARDS SHALL BE THE LATEST APPROVED EDITION PER THE BUILDING CODE NOTED ON THESE DRAWINGS.

DESIGN CRITERIA:
BUILDING CODE: 2015 IBC AND LOCAL AMMENDMENTS
OCCUPANCY CATEGORY: II

SEISMIC:
IE = 1.0
SD = 0.126

S1 = 0.052
SD1 = 0.154
SD1 = 0.083
R = 3
CS = 0.045

SEISMIC DESIGN CATEGORY: B
SEISMIC FORCE RESISTING SYSTEM: LIGHT-FRAME (CFS) WALL SYSTEMS USING FLAT STRAP BRACING AND CRANKY STEEL MOMENT FRAMES NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.

DESIGN BASE SHEAR = 10

ANALYSIS PROCEDURE:
EQUIVALENT LATERAL FORCE PROCEDURE

WIND:
V = 115 MPH
W = 1.0

EXPOSURE: C
APPLICABLE INTERNAL PRESSURE COEFFICIENTS: +/- 0.18

COMPONENTS AND CLADDING PRESSURES:
±26.0 PSF MINIMUM – ZONE 4 (OVER 1000 SQ FT TRIBUTARY AREA)
±26.0 PSF MINIMUM – ZONE 3 (OVER 1000 SQ FT TRIBUTARY AREA)
±33.9 PSF MAXIMUM – ZONE 4 (UNDER 10 SQ FT TRIBUTARY AREA)
±41.8 PSF MAXIMUM – ZONE 3 (UNDER 10 SQ FT TRIBUTARY AREA)

SNOW:
PD = 30 PSF
IS = 1.0
CE = 1.0
CT = 1.0
PF = 21 PSF

LIVE LOADS:
ROOF = 30 PSF (MINIMUM)
LOFT FLOOR = 60 PSF

DEAD LOADS:
TRUSS ROOF = 25 PSF
LOFT FLOOR = 30 PSF
TROLLEY ROOF = 18 PSF

DIVISION 2 - SITE WORK

FOOTINGS ARE DESIGNED FOR A BEARING CAPACITY OF 3,000 PSF PROVIDED BY THE GEOTECHNICAL ENGINEER OF RECORD PER ECG MID-ATLANTIC, LLC REPORT NUMBER 131937. FOOTINGS SHALL BEAR ON NATURAL UNDISTURBED SOIL 1'-0" BELOW ORIGINAL GRADE OR ON ENGINEERED CONTROLLED FILL AS SPECIFIED BY THE GEOTECHNICAL ENGINEER. BOTTOM OF EXTERIOR FOOTING SHALL BE A LOCATED AT A MINIMUM DEPTH TO MEET LOCAL JURISDICTION REQUIREMENTS FOR FROST PROTECTION. THE SOIL BEARING PRESSURE SHALL BE VERIFIED BY QUALIFIED INSPECTORS. IF BEARING CAPACITY IS FOUND TO BE LESS THAN THE CAPACITY ABOVE, THE FOOTINGS WILL HAVE TO BE REDESIGNED.

THE CONTRACTOR SHALL PROVIDE FROST PROTECTION FOR ALL FOUNDATION SUBGRADES DURING CONSTRUCTION. NO FOOTINGS SHALL BE CAST ON FROZEN SUB-GRADE MATERIAL. FROST PROTECTION SHALL BE MAINTAINED AFTER THE FOOTINGS HAVE BEEN CAST TO INSURE THAT NO BEARING MATERIAL BECOMES FROZEN PRIOR TO BACK-FILLING.

ALL FILL UNDER SLABS ON GROUND SHALL BE COARSE GRANULAR MATERIAL COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.

ALL SLABS ON GROUND SHALL BE POURED CONTINUOUSLY TO FORM RELATIVELY SQUARE AREAS NOT EXCEEDING 225 SQUARE FEET.

DO NOT BACKFILL AGAINST FOUNDATION WALLS UNTIL SUPPORTING SLABS ARE IN PLACE AND HAVE ATTAINED REQUIRED STRENGTH. IF A WALL REQUIRES BACKFILLING PRIOR TO PLACEMENT OF SUPPORTING SLAB THE CONTRACTOR SHALL HIRE A REGISTERED PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION TO DESIGN BRACING. BRACE THE WALL UNTIL THE SLAB IS IN PLACE AND HAS ACHIEVED DESIGN STRENGTH.

DIVISION 3 - CONCRETE

SLABS ON GROUND SHALL BE 4" THICK CONCRETE REINFORCED WITH 6"x6" W1.4XW1.4 WWF OVER VAPOR BARRIER AND 4" WASHED GRAVEL UNLESS OTHERWISE NOTED. SEE SPECIFICATIONS FOR VAPOR BARRIER. SEE GEOTECHNICAL REPORT FOR WASHED GRAVEL SPECIFICATION.

ALL SLABS UNLESS OTHERWISE SPECIFIED SHALL HAVE THE FOLLOWING TEMPERATURE REINFORCING:

0" TO 5" #3 AT 12" O.C.
5" TO 6 1/2" #3 AT 9" O.C.
OVER 6 1/2" #4 AT 12" O.C.

WELDED WIRE FABRIC SHALL HAVE ENDS LAPPED ONE FULL MESH AND SHALL EXTEND INTO SUPPORTING BEAMS OR WALLS EXCEPT AT SLABS ON GROUND.

ALL SPLICES IN REINFORCING SHALL BE CLASS "B" SPLICES IN ACCORDANCE WITH ACI-318 (LATEST LOCAL APPROVED EDITION) EXCEPT AS NOTED IN THE PLANS. BEYOND HORIZONTAL WALL REINFORCING 1'-0" MINIMUM AROUND ALL CORNERS OR PROVIDE 4'-0" LONG CORNER BARS TO MATCH HORIZONTAL REINFORCING.

ALL CONCRETE NOT EXPOSED TO WEATHER SHALL BE FC = 3,000 PSI, NORMAL WEIGHT CONCRETE AT 28 DAYS UNLESS NOTED OTHERWISE ON THE PLANS.

ALL CONCRETE EXPOSED TO WEATHER SHALL BE FC = 4,500 PSI, NORMAL WEIGHT, AIR-ENTRAINED CONCRETE AT 28 DAYS UNLESS NOTED OTHERWISE ON THE PLANS.

ALL REINFORCING STEEL SHALL BE HIGH-STRENGTH NEW BILLET STEEL CONFORMING TO ASTM DESIGNATION A-615 (LATEST LOCAL APPROVED EDITION) FY=60,000 PSI. ALL REINFORCING SHALL BE DETAIL, FABRICATED, AND PLACED IN ACCORDANCE WITH THE ACI'S "MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES" (ACI-318, LATEST LOCAL APPROVED EDITION). UNLESS OTHERWISE NOTED IN STRUCTURAL DRAWINGS, PROVIDE CONCRETE PROTECTION FOR REINFORCING AS FOLLOWS:

CAST AGAINST EARTH ----- 3"
EXPOSED TO EARTH OR WEATHER:
NO. 6 AND LARGER BARS ----- 2"
NO. 5 AND SMALLER BARS ----- 1-1/2"

NOT EXPOSED TO EARTH OR WEATHER:
SLABS, WALLS, JOISTS ----- 3/4"
BEAMS, GIRDERS, COLUMNS ----- 1-1/2" TO TIES, STIRRUPS, OR SPIRALS

ALL FORMWORK SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE "FORMWORK FOR CONCRETE", SPECIAL PUBLICATION NO.4 AND ACI'S "STANDARD RECOMMENDED PRACTICE FOR CONCRETE FORMWORK" (ACI-307, LATEST LOCAL APPROVED EDITION).

ALL CONCRETE WORK SHALL CONFORM TO THE LATEST APPROVED (BY LOCAL GOVERNMENT) EDITIONS OF THE FOLLOWING A.C.I. AND A.S.T.M. DOCUMENTS:

ACI-301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
ACI-318 CODE OF PRACTICE FOR STRUCTURAL CONCRETE
ACI-308 COMPRESSION TESTS
ACI-306 COLD WEATHER
ACI-315 DETAILING
ACI-307 FORMWORK
ACI-305 HOT WEATHER
ACI-211 PROPORTIONS OF CONCRETE
ACI-304 PLACING CONCRETE
ASTM-C94 READY-MIX CONCRETE

ALL FIELD AND LAB TESTING OF CONCRETE SHALL CONFORM TO THE LATEST APPROVED (BY LOCAL GOVERNMENT) EDITIONS OF ASTM:

ASTM C-31 FIELD CYLINDER SPECIMENS
ASTM C-143 SLUMP TEST
ASTM C-231 AIR CONTENT (WHEN REQUIRED)
ASTM C-39 LAB TESTING CYLINDERS
ASTM C-172 SAMPLING FRESH CONCRETE
ASTM C-42 HARDENED CORES (WHEN REQUIRED)

WHEN APPLICABLE THE CONTRACTOR SHALL HAVE AT THE SITE A FORMWORK PLAN SHOWING SIZES AND STRENGTHS OF FORMWORK, SEQUENCE OF CONSTRUCTION, AND DETAILED PLANS OF FORMWORK REMOVAL AND REPAIRING. THE FORMWORK PLAN SHALL BE SIGNED AND STAMPED BY AN ENGINEER REGISTERED IN THE LOCAL JURISDICTION.

A COMPLETE STRUCTURE MAY NOT SUPPORT ITS DESIGN LIVE LOAD FOR 28 DAYS.

CONTRACTOR MUST SUBMIT A CONCRETE DESIGN MIX IN ACCORDANCE WITH ACI-318 (LATEST LOCAL APPROVED EDITION). SUCH DESIGN MIX SHALL BE ACCOMPANIED BY THE APPROPRIATE GRAPHS AND BACKGROUND DATA. CONCRETE DESIGN MIX SHALL INDICATE 7 AND 28 DAY STRENGTHS, CEMENT CONTENT AND WATER CEMENT RATIO, FINE AND COARSE AGGREGATES AND ADMIXTURES FOR EACH DESIGN STRENGTH. THE ADDITION OF WATER AT THE PLANT OR IN THE FIELD GREATER THAN 1% MORE THAN THE SPECIFIED WATER CONTENT IS STRICTLY PROHIBITED.

DIVISION 4 - MASONRY

ALL CONCRETE MASONRY SHALL CONFORM TO THE LATEST EDITION OF ASTM SPECIFICATIONS C90 AND C145. ALL MORTAR SHALL CONFORM TO ASTM C270 AND SHALL BE TYPE "S" MINIMUM. ALL BRICK AND MASONRY CONSTRUCTION SHALL BE PROVIDED WITH STANDARD GALVANIZED "DU-R-WALL" OR EQUAL HORIZONTAL JOINT REINFORCING AT 16" O/C UNLESS HEAVIER REINFORCING IS NOTED ON THE DRAWINGS. CALCIUM CHLORIDE AND OTHER CHLORIDES MAY NOT BE USED AS ADMIXTURES. ALL MASONRY CONSTRUCTION MUST BE PROTECTED FROM FREEZING. THE REQUIREMENTS OF THE "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI 530.1 - LATEST EDITION) SHALL BE FOLLOWED. GROUT SHALL CONFORM TO THE REQUIREMENTS OF ASTM C476 WITH A MINIMUM STRENGTH OF 2500 PSI. PRIOR TO CONSTRUCTION A MIX DESIGN OF THE GROUT SHALL BE SUBMITTED WITH COMPRESSIVE STRENGTH TESTS PERFORMED IN ACCORDANCE WITH ASTM C1019.

THE MINIMUM REQUIRED COMPRESSIVE STRENGTH (FM AT 28 DAYS) OF BRICK MASONRY CONSTRUCTION, CONCRETE MASONRY CONSTRUCTION, AND BRICK AND CONCRETE MASONRY CONSTRUCTION IS AS FOLLOWS:

MN. REQUIRED FM AT 28 DAYS 1500 PSI

DIVISION 5 - METAL DECKING, STEEL JOISTS, STRUCTURAL STEEL, AND COLD FORMED STEEL

PROVIDE G60 GALVANIZED ROOF DECK UNLESS OTHERWISE NOTED.

WELD WASHERS ARE REQUIRED FOR ANY UNCOATED DECK THICKNESS OF LESS THAN .028" OR 22 GAGE.

DO NOT SUPPORT LIGHTS, SPRINKLERS, PIPES, CEILING, ETC FROM THE METAL FLOOR DECK OR METAL ROOF DECK.

POUR STOPS, SCORED ANGLES, ETC., ARE TO BE PROVIDED AT SLAB POUR EDGES AND AS REQUIRED TO PREVENT THE CONCRETE FROM LEAKING THROUGH THE FORMS. THE EDGE OF DECK, FLOOR AND ROOF SHALL BE COORDINATED WITH THE CONTRACT DOCUMENTS BY THE CONTRACTOR.

ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM SPECIFICATION A36, A992, A500, OR A513 (CODE APPLICABLE EDITION), FOR WHICH MILL TEST REPORTS SHALL BE SUBMITTED TO THE ARCHITECT. ALL STEEL SHALL BE DETAIL, FABRICATED, AND ERCTED IN ACCORDANCE WITH THE AISI MANUAL. AISI SPECIFICATION AND AISI CODE OF STANDARD PRACTICE. ALL CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE BEAM. IN GENERAL, FIELD CONNECTIONS SHALL BE MADE WITH 3/4" A-325 HIGH TENSILE BOLTS AND WASHERS UNLESS OTHERWISE NOTED. BOLTS SHALL BE SNUG TIGHT, AND SHOP CONNECTIONS SHALL BE WELDED. ALL STEEL SHALL BE FABRICATED WITH NATURAL CAMBER UP.

ALL STRUCTURAL STEEL GRADES ARE AS FOLLOWS UNLESS NOTED OTHERWISE:

WIDE-FLANGE SHAPES FY=50 KSI ASTM A992
ANGLES, CHANNELS & PLATES FY=36 KSI ASTM A36
PIPES, COLD FORMED FY=46 KSI ASTM A500 GRADE B
TUBES, HOT FORMED FY=35 KSI ASTM A53 GRADE B

ALL WELDING AND WELD INSPECTION SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE - STEEL," AWS D1.1 (LATEST LOCAL APPROVED) OF THE AMERICAN WELDING SOCIETY. THESE WELDS SHALL BE MADE ONLY BY OPERATORS QUALIFIED BY PRESCRIBED TESTS IN THE "STRUCTURAL WELDING CODE IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY. ACCEPTANCE OF THE WELDS TO BE SUBJECT TO THE INSPECTION AND REVIEW OF AN AWS QUALIFIED INSPECTOR.

CONNECTIONS DETAILED BY THE FABRICATOR SHALL MEET THE FOLLOWING REQUIREMENTS:

- A. ALL CONNECTIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER IN THE LOCAL JURISDICTION. THE DESIGN OF THE STEEL CONNECTIONS IS CONSIDERED DELEGATED DESIGN. SUBMIT SIGNED AND SEALED CALCULATIONS AND SIGNED AND SEALED STEEL SHOP DRAWINGS.
- B. CONNECTIONS MAY BE DESIGNED AND DETAILED IN ACCORDANCE WITH PART 10 OF THE AISI MANUAL - 14TH EDITION.

C. WHERE BEARING TYPE CONNECTIONS ARE SPECIFIED, SHEAR VALUES FOR THREADS INCLUDED IN THE SHEAR PLANE SHALL BE USED, EXCEPT AS FOLLOWS: SPECIAL CONNECTIONS FOR REACTIONS EXCEEDING 45 KIPS MAY BE DESIGNED AND DETAILED USING LARGE DIAMETER BOLTS AND/OR HIGHER STRENGTH BOLTS AND/OR BOLT STRENGTHS FOR THREADS EXCLUDED FROM THE SHEAR PLANE.

D. BOLTS IN MOMENT RESISTING CONNECTIONS SHALL BE SLIP CRITICAL TYPE.

E. BEAMS FRAMING INTO THE WEAK AXIS OF THE COLUMN SHALL FRAME DIRECTLY INTO THE WEB OF THE COLUMN WHENEVER POSSIBLE.

ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH A RUST INHIBITIVE PRIMER (RED OXIDE). IT WILL NOT BE NECESSARY TO MASK OUT AREAS FOR WELDING. IT WILL BE NECESSARY TO MASK OUT AREAS FOR FRICTION TYPE BOLTED CONNECTIONS.

STRUCTURAL COLD FORMED METAL FRAMING SHALL BE DEFINED AS ANY COLD FORMED METAL FRAMING THAT SUPPORTS VERTICAL ROOF OR FLOOR LOADS, PROVIDES BACKUP FOR THE EXTERIOR SKIN OF THE STRUCTURE AND RESISTS WIND LOAD, OR ACTS AS A SHEARWALL FOR THE STRUCTURE.

STRUCTURAL COLD FORMED METAL FRAMING SHOWN ON STRUCTURAL PLANS IS TO BE USED AS A GUIDELINE BY THE COLD FORMED STEEL CONTRACTOR. THE MINIMUM GAGE FOR COLD FORMED STEEL METAL FRAMING SHALL BE 18 GAGE.

COLD FORMED STEEL FRAMING DESIGN, SHOP DRAWINGS, AND CALCULATIONS SHALL BE DEVELOPED FOR ALL STRUCTURAL COLD FORMED STEEL DESIGN AND DETAILING OF THE COLD FORMED STEEL MEMBERS AND SHOP DRAWINGS IS CONSIDERED DELEGATED DESIGN. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION.

DESIGN, FABRICATION AND ERECTION OF ALL MEMBERS SHALL CONFORM TO THE FOLLOWING STANDARD SPECIFICATIONS, LATEST EDITION, AS ADOPTED BY THE AMERICAN IRON AND STEEL INSTITUTE, "LIGHT GAGE COLD-FORMED STEEL DESIGN MANUAL".

FOR ALL COLD FORMED STRUCTURAL MEMBERS DESIGNATED 18 GAGE, FY=38KSI; FOR ALL COLD FORMED STRUCTURAL MEMBERS DESIGNATED 16-17 GAGE, FY=50KSI TYPICAL UNLESS NOTED OTHERWISE.

ALL STRUCTURAL COLD FORMED METAL FRAMING SHALL BE GALVANIZED UNLESS NOTED OTHERWISE ON THE DRAWINGS.

DIVISION 6 - STRUCTURAL WOOD PRODUCTS

DELEGATED DESIGN - PRE-ENGINEERED WOOD TRUSSES:

Pre-engineered wood truss layout drawing and bracing design.

A pre-engineered wood truss layout drawing shall be prepared by a registered professional engineer in compliance with the delegated design requirements. The pre-engineered wood truss layout drawing shall include but shall not be limited to the following information.

Provide a layout drawing of all pre-engineered wood truss members referenced to the individual truss shop drawings.

Provide design of the required PERMANENT LATERAL BRIDGING/BRACING BETWEEN THE TRUSSES AND ADJACENT STRUCTURAL ELEMENTS THAT IS REQUIRED FOR INDIVIDUAL TRUSS MEMBERS (BASED ON THE DESIGN OF THE pre-engineered truss MEMBERS) AND TO INSURE TRUSS STABILITY. The permanent lateral bridging/bracing design shall be detailed and shown on the pre-engineered wood truss layout drawing. Signed and sealed calculations to be submitted as part of delegated design requirements.

Submit THE PERMANENT BRACING PLAN SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE LOCAL JURISDICTION AND ONE COPY SUBMITTED TO ABEL CONSULTING ENGINEERS FOR RECORD ONLY. ABEL CONSULTING ENGINEERS HAS INDICATED THE STRUCTURAL ELEMENTS OF THE OVERALL BUILDING LATERAL LOAD RESISTING SYSTEM AND GRAVITY LOAD SYSTEM AND THE PERMANENT ATTACHMENT OF THESE ELEMENTS TO ONE ANOTHER.

Truss erector MUST PROVIDE THE NECESSARY TEMPORARY BRACING TO ASSURE TRUSS STABILITY DURING CONSTRUCTION AND UNTIL ALL PERMANENT BRIDGING/BRACING OF THE TRUSSES IS IN PLACE AND UNTIL ALL OTHER PERMANENT STRUCTURAL ELEMENTS AND ATTACHMENTS ARE IN PLACE.

NOTE THAT ADEQUATE BEARING FOR TRUSSES IS PART OF THE TRUSS MANUFACTURER'S DESIGN IN REGARD TO THE TRUSS.

A. PREENGINEERED WOOD TRUSSES SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE DESIGN SPECIFICATION FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES TP1-02 AND BRACING OF WOOD TRUSSES, COMMENTARY AND RECOMMENDATIONS BC51-1 AS PUBLISHED BY TPI AND WTCA AND IN ACCORDANCE WITH THE 2005 EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. PROVIDE ANCHORAGE AS INDICATED ON THE DRAWINGS, BUT IN NO CASE SHALL THE ANCHORAGE FOR EACH TRUSS BE LESS THAN ONE SIMPSON H72 TIE OR PROVIDE UPLIFT CAPACITY TO RESIST THE UPLIFTS SHOWN ON THE TRUSS SHOP DRAWINGS IF THESE UPLIFTS EXCEED THE CAPACITY OF THE TIES INDICATED ON THESE DRAWINGS. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL OVER BUILT ROOF FRAMING IS TO BE PREENGINEERED WOOD TRUSSES.

B. PREENGINEERED WOOD TRUSSES AND WOOD TRUSS JOISTS ARE TO BE DESIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE LOCAL JURISDICTION. SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED FOR REVIEW. FOR SPECIFIC LOADS AND LOADING CONDITIONS, SEE THE PLANS AND DIVISION 1. NOTE THE DESIGN OF WOOD TRUSSES SHALL MEET OR EXCEED THE MINIMUM GRAVITY LOADS SET FORTH IN THESE DOCUMENTS AND THE MINIMUM WIND LOAD PER THE APPROPRIATE BUILDING CODE OR REFERENCED STANDARD.

C. ALL MEMBERS AND CONNECTIONS AND ATTACHMENTS MUST BE DESIGNED FOR THE APPROPRIATE DEAD, LIVE, AND WIND LOADS AND FOR ALL COMBINATIONS SPECIFIED IN THE IBC CODE (INCLUDING WIND UPLIFT).

D. ANY HORIZONTAL DEFLECTIONS OF THE ROOF TRUSSES DUE TO THE TRUSS CONFIGURATION (I.E., SLOPED BOTTOM CHORD) SHALL BE ACCOUNTED FOR IN THE TRUSS CONNECTION DETAILS AND SHALL BE SUBMITTED TO THE ENGINEER of record FOR REVIEW.

E. ALLOWANCE SHALL BE MADE BY THE CONTRACTOR FOR POTENTIAL UPLIFT OF ROOF TRUSS BOTTOM CHORDS THAT MIGHT BE CAUSED BY DISTORTION OF THE TRUSS MEMBERS DUE TO VARIATIONS IN THE MOISTURE CONTENT OF THE TRUSS MEMBERS.

F. ALL LUMBER FOR USE IN THE TRUSSES SHALL BE #2 SOUTHERN PINE (18 PERCENT MAXIMUM MOISTURE CONTENT IN USE) OR BETTER.

G. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS COMPLETE WITH SIGNED AND SEALED ERECTION PLANS AND CALCULATIONS. SHOP DRAWINGS SHALL INDICATE THE SIZE AND CAPACITY OF ALL CONNECTOR PLATES. SHOP DRAWINGS ALSO INDICATE THE WOOD GRADE, MEMBER SIZES AND WEB CONFIGURATION OF ALL TRUSSES. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE LOCAL JURISDICTION.

INSTALL MEMBERS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. ALL BEAMS SHALL BEAR FULL LENGTH ONTO POSTS.

STRUCTURAL WOOD JOISTS AND BEAMS SHALL BE SOUTHERN PINE NO 2 OR EQUAL. ALL FABRICATION, ERECTION, OTHER PROCEDURES, AND MINIMUM UNIT STRESSES SHALL CONFORM TO THE CURRENT "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", WOOD EXPOSED TO THE EXTERIOR SHALL BE PRESSURE TREATED.

EXCEPT AS NOTED OTHERWISE, NAILING AND DETAILS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL BUILDING CODE AND THE APA'S NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENINGS. IN GENERAL, TRUSSES SHALL BE ANCHORED TO SUPPORTING MEMBERS WITH METAL FRAMING ANCHORS. PROVIDE CORNER BRACING AS REQUIRED BY THE IBC CODE. PROVIDE BRIDGING, BRACING, ETC., AS REQUIRED BY TRUSS MANUFACTURER.

CONNECTORS SPECIFIED ON THE DOCUMENTS ARE TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS. SPECIAL ORDER DETAILS SUCH AS SKEW AND SLOPE ANGLES ARE THE RESPONSIBILITY OF THE CONTRACTOR. DETAILS SHALL BE COORDINATED WITH CONNECTION SUPPLIER. CONNECTORS OTHER THAN THOSE STATED ON THE DRAWINGS MAY BE SUBSTITUTED PROVIDED THEY MEET ALL MINIMUM ALLOWABLE LOADS OF THE SPECIFIED CONNECTOR. SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW PRIOR TO INSTALLATION. SUBSTITUTION PROPOSALS SHALL CLEARLY INDICATE THE CONNECTOR LOCATION, MANUFACTURER AND MODEL NUMBER.

PROVIDE ERECTION BRACING FOR ROOF FRAMING TO INCLUDE STRUCTURAL BRACING, CROSS BRACING FOR BOTTOM CHORD BEARING, BOTTOM CHORD RESTRAINT, AND SWAY BRACING. USE IBC FOR NAILING SCHEDULE.

PLYWOOD - ROOF SHEATHING SHALL BE STANDARD APA RATED C-D 32/16 WITH EXTERIOR GLUE PLYWOOD WITH A NOMINAL THICKNESS OF 19/32" NAIL PLYWOOD TO TRUSSES WITH 6D NAILS AT 6" AT SHEET EDGES AND AT 12" AT ALL INTERMEDIATE TRUSSES.

Submission Type	Signed and Sealed by Registered Professional Engineer*	Review and Return	Review and Retained for Record
Shop Drawings			
Structural Steel Shop Drawing			
Shear Stud Layout		X	N/A
Steel Joist Shop Drawing			N/A
Steel Stair and Railing Shop Drawing (Delegated Design)	N/A	N/A	N/A
Metal Deck Shop Drawing		X	N/A
Architectural Precast Shop Drawing (Delegated Design)	N/A	N/A	N/A
Structural Precast Shop Drawing (Delegated Design)	N/A	N/A	N/A
Reinforcing Steel Shop Drawing		X	
Cold Formed Steel Shop Drawing used for load bearing members or to support exterior cladding (Delegated Design)	X	X	
Pre-engineered Wood Truss Layout and Shop Drawings (Delegated Design)	X	X	
Pre-engineered Cold Formed Steel Truss Layout and Shop Drawings (Delegated Design)	N/A	N/A	
Concrete Mix Designs		X	
Formwork Shop Drawing (Delegated Design)	X		X
Sheeting Shop Drawing (Delegated Design)	X		X
Shoring Shop Drawing (Delegated Design)	X		X
Mechanical, Electrical, Plumbing & Miscellaneous Penetration Layouts in Slabs, Beams, Walls, etc. (Horizontal and Vertical)		X	
Concrete Masonry Reinforcing Shop Drawing		X	
Concrete Masonry Mix and Grout Design		X	
Glass Storefront / Curtainwall System Shop Drawing (Delegated Design)	N/A	N/A	
Anchor Bolt / Embed Layout		X	
Product Certifications			
Structural Steel Mill Test Reports			X
Reinforcing Bar Mill Test Reports			X
Welder Certifications (Fabricator)			X
Welder Certifications (Erector)			X
High Strength Bolts			X
Fabricator Qualification Data			X
Erector Qualification Data			X
Aggregate Mill Test Report			X
Cement Mill Certificate			X
Design Calculations			
Structural Steel Connection Calculations	X	X	
Steel Stair & Connection Calculations	N/A	N/A	
Glass Storefront / Curtainwall System Calculations	N/A	N/A	
Miscellaneous Steel Calculations	X	X	
Architectural Precast Calculations (Delegated Design)	N/A	N/A	
Structural Precast Calculations (Delegated Design)	N/A	N/A	
Cold Formed Steel Calculations used for load bearing members or to support exterior cladding (Delegated Design)	X	X	
Pre-engineered Wood Truss Calculations (Delegated Design)	X	X	
Pre-engineered Cold Formed Steel Truss Calculations (Delegated Design)	N/A	N/A	
Formwork (Delegated Design)	X		X
Sheeting (Delegated Design)	X		X
Shoring (Delegated Design)	X		X
* Registered Professional Engineer must be licensed in the local jurisdiction that the project is being constructed. The registered professional engineer must submit a certificate of proof of liability insurance with the shop drawing / calculation submittal. Note: Additional submittals may be required per the project specifications. Delegated Design means that the submittal requires a seal of a registered professional engineer registered in the local jurisdiction. The registered professional engineer must submit a certificate of proof of professional liability insurance with the shop drawing/calculation submittal. Review and Return means that the submittal will be reviewed and returned to the appropriate party. Review and Retained for Record means that the submittal is for record purposes to confirm that the item has been designed and signed and sealed by a registered professional engineer licensed in the local jurisdiction.			

ABBREVIATION & SYMBOLS LEGEND			
Ø	DIAMETER	LLH	LONG LEG HORIZONTAL
AHU	AIR HANDLING UNIT	LLV	LONG LEG VERTICAL
ARCH.	ARCHITECTURAL	LVL	LAMINATED VENEER LUMBER
BOTT	BOTTOM	L.W.	LIGHT WEIGHT (CONCRETE)
BP	BEARING PLATE, BASE PLATE	MAX.	MAXIMUM
CFS	COLD FORMED STEEL	MECH.	MECHANICAL
C.J.	CONTRACTION JOINT	MIN.	MINIMUM
CL	CENTERLINE	N.W.	NORMAL WEIGHT (CONCRETE)
CONC	CONCRETE	o.c.	ON CENTER
CONT.</			

HVAC ABBREVIATIONS

ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AMP	AMPERE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APD	AIR PRESSURE DROP
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BDD	BACK DRAFT DAMPER
BHP	BRAKE HORSE POWER
BLDG	BUILDING
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CO	CLEAN OUT
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUATION
CONTR	CONTRACTOR
DB	DRY BULB TEMPERATURE
DEG (°)	DEGREE
DIA	DIAMETER
DIFF	DIFFUSER
DISCH	DISCHARGE
DN	DOWN
DPR	DAMPER
DWG	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB
EL	ELEVATION
EQUIP	EQUIPMENT
ETC	ETCETERA
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB
EXH	EXHAUST
F	FAHRENHEIT
FA	FREE AREA
FC	FLEXIBLE CONNECTION
FPM	FEET PER MINUTE
FR	FROM
FT	FEET
GR	GRILLE
HP	HORSE POWER
HORIZ	HORIZONTAL
HZ	FREQUENCY (HERTZ)
ID	INSIDE DIAMETER
INSUL	INSULATION
JT	JOINT
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LDB	LEAVING DRY BULB
LF	LINEAR FEET
LQ	LIQUID
LSDS	LINEAR SLOT DIFFUSER SUPPLY
LSDR	LINEAR SLOT DIFFUSER RETURN
LWB	LEAVING WET BULB
MAX	MAXIMUM
MBH	THOUSAND BTU's
MFR	MANUFACTURER
MIN	MINIMUM
MTD	MOUNTED
N/A	NOT APPLICABLE
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OPNG	OPENING
%	PERCENT
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PG	PRESSURE GAUGE WITH COCK
PH	PHASE
PPD	PERFORATED PLATE DAMPER
PPM	PARTS PER MILLION
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PS	PIPE SUPPORT
PSF	POUNDS PER SQUARE FOOT
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	PRESSURE TAP
PV	PLUG VALVE
QNTY	QUANTITY
RA	RETURN AIR
REFRIG	REFRIGERANT
REQD	REQUIRED
RET	RETURN
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SCH	SCHEDULE
SENS	SENSIBLE
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ FT	SQUARE FEET
STD	STANDARD
STR	STRAINER
SUCT	SUCTION
SUP	SUPPLY
TAB	TEST, ADJUST AND BALANCE
TEMP	TEMPERATURE
TONS	TONS OF REFRIGERATION
TOT	TOTAL
TRANS	TRANSITION
TSTAT	THERMOSTAT
TSP	TOTAL STATIC PRESSURE
TV	TURNING VANES
UNO	UNLESS NOTED OTHERWISE
V	VOLT
W	WATT
W/	WITH
WB	WET BULB
WT	WEIGHT

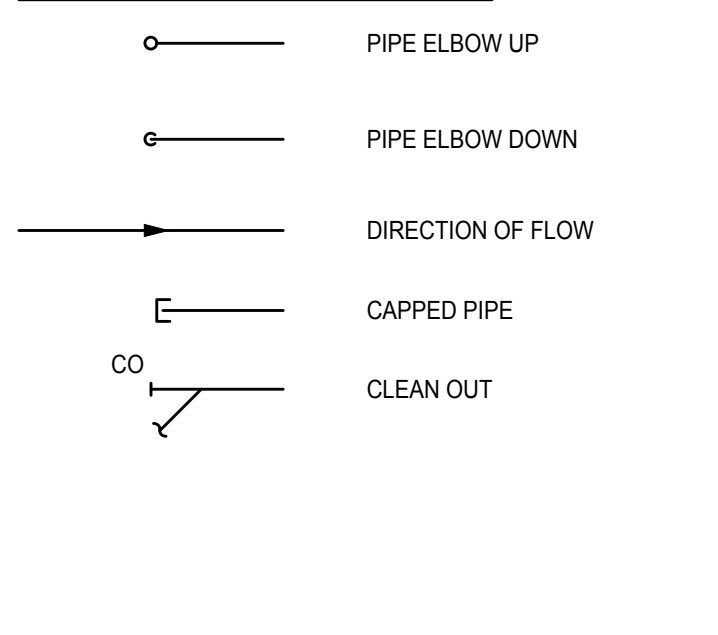
HVAC EQUIPMENT ABBREVIATIONS

AHU	AIR HANDLING UNIT
ERV	ENERGY RECOVERY VENTILATOR
EWH	ELECTRIC WALL HEATER
HP	HEAT PUMP

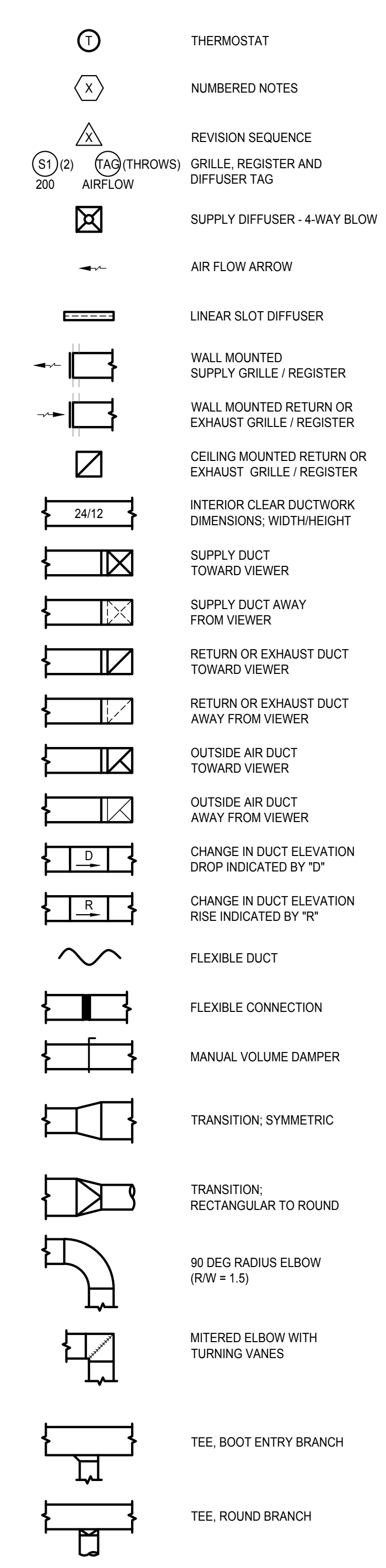
HVAC PIPING ABBREVIATIONS

COL	CONDENSATE DRAIN LINE
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION

HVAC PIPING SYMBOLS



HVAC SYMBOLS



ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT

- GENERAL REQUIREMENTS
 - A. HVAC CONTRACTOR SHALL PROVIDE MECHANICAL EQUIPMENT WITH VOLTAGES AND OTHER ELECTRICAL CHARACTERISTICS AS INDICATED ON THE DRAWINGS AND WITHIN THE SPECIFICATIONS.
 - B. ALL STARTERS, DISCONNECT SWITCHES, MOTOR CONTROL CENTERS, AND VARIABLE FREQUENCY DRIVES, FOR EQUIPMENT PROVIDED UNDER DIVISION 23, SHALL BE FURNISHED UNDER DIVISION 23 AND INSTALLED UNDER DIVISION 26. FACTORY MOUNTED STARTERS, DISCONNECTS SWITCHES, AND VARIABLE FREQUENCY DRIVES SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 23. HVAC CONTRACTOR SHALL PROVIDE STARTERS, DISCONNECT SWITCHES, MOTOR CONTROL CENTERS AND VARIABLE FREQUENCY DRIVES IN ACCORDANCE WITH DIVISION 26.
 - C. HVAC CONTRACTOR SHALL SUBMIT WIRING DIAGRAMS TO THE ARCHITECT/ENGINEER FOR APPROVAL AND PROVIDE APPROVED DIAGRAMS TO THE ELECTRICAL CONTRACTOR SO THAT THE ELECTRICAL WORK MAY BE PROPERLY ACCOMPLISHED.
 - D. HVAC CONTRACTOR SHALL FULLY COOPERATE WITH THE OTHER DIVISIONS AND TRADES ON THE PROJECT AND THEIR MANUFACTURERS, IN PROMPTLY PROVIDING THE INFORMATION REQUIRED FOR PROPER COORDINATION OF MOTOR PROTECTION, CONTROL EQUIPMENT AND WIRING, AND THE OTHER CHARACTERISTICS OF THE EQUIPMENT.
 - E. IT SHALL BE THE RESPONSIBILITY OF THE HEATING AND ELECTRICAL CONTRACTORS TO CHECK FOR ADEQUACY OF SUPPLY WIRING, OVERCURRENT PROTECTION, PROPER VOLTAGE, PHASE ROTATION AND FINAL LOCATION OF EQUIPMENT PROVIDED PRIOR TO THE RUNNING OF ANY CONDUIT OR WIRING. COORDINATE WITH DIVISION 26 TO ASSURE PROPER ELECTRICAL SERVICE IS PROVIDED TO EQUIPMENT UNDER DIVISION 23.
 - F. EQUIPMENT CONNECTIONS SHALL BE MADE THROUGH CONDUIT OR RACEWAYS IN ACCORDANCE WITH DIVISION 26, WITH THE EXCEPTION THAT CONNECTIONS TO MOTORS SHALL BE MADE THROUGH LIQUID TIGHT FLEXIBLE METAL CONDUIT WITH EQUIPMENT GROUNDING CONDUCTOR.
- POWER REQUIREMENTS
 - A. ALL POWER WIRING FOR MECHANICAL EQUIPMENT PROVIDED UNDER DIVISION 23 SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 26 TO THE POINT OF FINAL CONNECTION (FROM THE SOURCE TO THE STARTERS, DISCONNECT SWITCHES, MCCS OR VFD'S AND TO EQUIPMENT, MOTOR, OR OTHER CONNECTION POINT), EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE. ALL POWER WIRING TO THE POINT OF FINAL CONNECTION FOR EQUIPMENT PROVIDED UNDER DIVISION 23 SHALL BE ACCOMPLISHED UNDER DIVISION 26.
 - B. FINAL ELECTRICAL POWER CONNECTIONS TO ALL EQUIPMENT SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 26. IN GENERAL, THE POINT OF FINAL CONNECTION SHALL BE THE TERMINAL HOUSING ON THE EQUIPMENT, MOTOR, OR AN INTERNAL JUNCTION BOX ON THE EQUIPMENT OR ITEM. IF NO JUNCTION BOX IS FURNISHED, A JUNCTION BOX SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 26. WIRE LEADS OF ADEQUATE LENGTH TO ENSURE A PROPER CONNECTION AT THE FINAL LOCATION SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 26.
 - C. WIRING, OVERCURRENT PROTECTION DEVICES, VOLTAGE, PHASE ROTATION AND FINAL LOCATION OF ALL EQUIPMENT PROVIDED UNDER DIVISION 23 SHALL BE COORDINATED WITH ALL SIMILAR DEVICES AND POWER WIRING FURNISHED AND INSTALLED UNDER DIVISION 26. COORDINATION SHALL BE ACCOMPLISHED PRIOR TO THE RUNNING OF ANY CONDUIT OR WIRING.
- CONTROL REQUIREMENTS
 - A. ALL CONTROL WIRING (LINE VOLTAGE AND/OR LOW VOLTAGE) FOR MECHANICAL EQUIPMENT PROVIDED UNDER DIVISION 23, SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 23. WIRING FROM THE POWER SOURCE TO ALL CONTROL PANELS, DDC CONTROL PANELS, STARTERS, OPERATOR WORK STATIONS (PCS, PRINTERS, MONITORS, AND OTHER WORK STATION EQUIPMENT) AND OTHER CONTROL EQUIPMENT REQUIRED FOR A COMPLETE AND OPERABLE CONTROL SYSTEM SERVING MECHANICAL EQUIPMENT PROVIDED UNDER DIVISION 23 SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 23.
 - B. ALL WIRING FROM CONTROL PANELS TO CONTROL DEVICES FOR MECHANICAL EQUIPMENT PROVIDED UNDER DIVISION 23 SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 23. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND DIVISION 26 OF THE SPECIFICATIONS. ALL CONTROL WIRING SHALL BE IN CONDUIT.
 - C. UNLESS OTHERWISE NOTED, ALL TEMPERATURE CONTROL DEVICES, INSTALLED PILOT DEVICES, AND ALL ASSOCIATED PILOT CONTROL EQUIPMENT, FOR ALL EQUIPMENT PROVIDED UNDER DIVISION 23, SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 23.
 - D. ELECTRICAL CONTROL WIRING FOR CONNECTION OF TEMPERATURE CONTROLLERS, PUSH BUTTONS, INTERLOCKS IN MOTOR CONTROLLERS, PNEUMATIC SWITCHES AND LIKE ITEMS IS SPECIFIED UNDER THE CONTROL SECTIONS IN DIVISION 23 AND INSTALLED BY DIVISION 23.
 - E. ALL MOTORS, MOUNTS, REMOTE MOUNTED PUSH BUTTON CONTROLS AND ALL SPEED CONTROL SWITCHES FOR MULTI-SPEED MOTORS FOR ALL EQUIPMENT PROVIDED UNDER DIVISION 23 SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 23.

PROJECT GENERAL NOTES

- FREDERICK COUNTY SHALL BE RESPONSIBLE FOR THE PURCHASE AND INSTALLATION OF THE MITSUBISHI VRF EQUIPMENT AND ALL ASSOCIATED DUCTWORK, AIR DEVICE, INSULATION, REFRIGERANT LINES, AND CONTROLS, WITH EXCEPTION OF ALL ASSOCIATED ELECTRICAL CONNECTIONS TO THE COMPLETE HVAC SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR THE GENERAL MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OTHER WORK INDICATED ON THE MECHANICAL DRAWINGS AND IN THE MECHANICAL SPECIFICATIONS, INCLUDING ELECTRIC HEATERS, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL CONNECTIONS TO THE COMPLETE HVAC SYSTEM, INCLUDING THE PORTION THAT FREDERICK COUNTY INSTALLS. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLUMBING INSTALLATION ASSOCIATED WITH THE COMPLETE HVAC INSTALLATION, INCLUDING CONDENSATE DRAIN PIPING AND PIPING INSULATION FOR THE VRF EQUIPMENT. SPECIFICATIONS REGARDING THE FREDERICK COUNTY INSTALLATION ARE FOR INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE SUCCESSFUL CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND SCHEDULE THE INSTALLATION OF THESE SYSTEMS WITH FREDERICK COUNTY'S INSTALLATION CREW.
- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
- INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS AND APPLICABLE CODES AND REGULATIONS.
- PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
- PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS CONNECTED TO, AND WITHIN 50 FT OF ISOLATED EQUIPMENT (EXCEPT AT BASE ELBOW SUPPORTS AND ANCHOR POINTS) THROUGHOUT MECHANICAL ROOMS. DO THE SAME FOR SUPPORTS OF STEAM MAINS WITHIN 50 FT OF BOILER OR PRESSURE-REDUCING VALVES.
- THE LOCATION OF EXISTING EQUIPMENT AND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PAY FOR AND REPAIR ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES UNLESS OTHERWISE INDICATED.
- COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL, WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
- MAINTAIN A MINIMUM OF 6" CLEARANCE TO THE UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
- ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS APPLIED.
- TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE AABC STANDARDS.
- WHEN TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.
- COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
- ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND DIVISION 26 OF THE SPECIFICATION.
- WHEN MECHANICAL WORK IS SUBCONTRACTED, IT SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE SUBCONTRACTORS AND THE ASSOCIATED CONTRACTS. WHEN DISCREPANCIES ARISE PERTAINING TO WHICH CONTRACTOR PROVIDED A PARTICULAR ITEM OF THE MECHANICAL CONTRACT OR WHICH CONTRACTOR PROVIDES FINAL CONNECTIONS FOR A PARTICULAR ITEM OF THE MECHANICAL CONTRACT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE MECHANICAL CONTRACTOR, WHOSE DECISION SHALL BE FINAL.
- THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
- ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR PIPING, DUCTWORK AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS AND OTHER CONCEALED MECHANICAL EQUIPMENT. ACCESS PANELS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR FOR INSTALLATION.
- ALL EQUIPMENT, PIPING, DUCTWORK, ETC. SHALL BE SUPPORTED AS DETAILED, SPECIFIED AND REQUIRED TO PROVIDE A VIBRATION-FREE INSTALLATION.
- ALL DUCTWORK, PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR JOISTS GIRDERS SHALL BE AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED. THE USE OF C-CLAMPS SHALL NOT BE PERMITTED.
- MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHALL NOT SUPPORTED FROM A METAL DECK.
- LOCATIONS AND SIZES OF FLOOR, WALL AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
- ALL AIR CONDITIONING CONDENSATE DRAIN LINES FROM EACH AIR HANDLING UNIT AND ROOFTOP UNIT SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET WITH A "P" TRAP AND PIPED TO THE NEAREST DRAIN. SEE THE DETAILS SHOWN ON THE DRAWINGS OR THE CONTRACT SPECIFICATIONS FOR THE DEPTH OF THE AIR CONDITIONING CONDENSATE TRAP.
- CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING EQUIPMENT AND UTILITIES BEFORE COMMENCING WORK.

SHEET METAL GENERAL NOTES

- ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS WHERE SPECIFIED.
- CERTAIN ITEMS SUCH AS RISERS AND DROPS IN DUCTWORK, ACCESS DOORS, VOLUME DAMPERS, ETC. ARE INDICATED ON THE CONTRACT DOCUMENT DRAWINGS FOR CLARITY FOR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS.
- ALL DUCTWORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS, INCLUDING DIVIDED DUCTS AND TRANSITIONS AROUND OBSTRUCTIONS, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- UNLESS OTHERWISE NOTED, ALL DUCTWORK SHALL BE OVERHEAD, TIGHT TO THE UNDERSIDE OF THE STRUCTURE, WITH SPACE FOR INSULATION IF REQUIRED.
- PROVIDE ACCESS DOORS IN DUCTWORK FOR THE OPERATION, ADJUSTMENT, AND MAINTENANCE OF ALL FANS, VALVES, AND MECHANICAL EQUIPMENT.
- SEE SPECIFICATIONS FOR DUCTWORK GAUGES, BRACING, HANGERS, AND OTHER REQUIREMENTS.
- RUNS OF FLEXIBLE DUCT SHALL NOT EXCEED 5 FEET.
- ALL AIR HANDING UNITS SHALL OPERATE WITHOUT MOISTURE CARRYOVER.
- PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS (SUPPLY, RETURN, AND EXHAUST) CONNECTED TO AIR HANDLING UNITS, FANS, AND OTHER EQUIPMENT THAT REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.
- ALL DUCTS SHALL BE GROUNDED ACROSS FLEXIBLE CONNECTIONS WITH FLEXIBLE COPPER GROUNDING STRAPS. GROUNDING STRAPS SHALL BE BOLTED OR SOLDERED TO BOTH THE EQUIPMENT AND THE DUCT.
- COORDINATE DIFFUSERS, REGISTER AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING AND OTHER CEILING ITEMS AND MAKE MINOR DUCT MODIFICATIONS TO FIT.
- UNLESS OTHERWISE SHOWN, LOCATE ALL ROOM THERMOSTATS AND HUMIDISTATS 42" (CENTERLINE) ABOVE THE FINISHED FLOOR. NOTIFY THE PROFESSIONAL OF ANY ROOMS WHERE THE PRECEDING LOCATION CANNOT BE MAINTAINED OR WHERE THERE IS A QUESTION ON LOCATION.
- EXTERIOR LOUVERS ARE INDICATED FOR INFORMATION ONLY. LOUVER SIZES, LOCATIONS, AND DETAILS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR.

HVAC PIPING GENERAL NOTES

- ALL PIPING SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO THE UNDERSIDE OF THE STRUCTURE OR SLAB, WITH SPACE FOR INSULATION IF REQUIRED.
- INSTALL PIPING SO ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
- ALL VALVES SHALL BE INSTALLED SO THAT THE VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON THE EQUIPMENT SIDE OF THE VALVE IS REMOVED.
- ALL VALVES (EXCEPT CONTROL VALVES) AND STRAINERS SHALL BE THE FULL SIZE OF THE PIPE BEFORE REDUCING IN SIZE TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS.
- PROVIDE A LINE SIZE STRAINER UPSTREAM OF EACH AUTOMATIC VALVE. PROVIDE A SHUTOFF VALVE ON EACH SIDE OF A STRAINER.
- UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES, AND IN LONG PIPING RUNS (100 FT OR MORE) TO PERMIT DISASSEMBLY FOR ALTERNATION AND REPAIRS.
- INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
- ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION.
- SLOPE REFRIGERANT PIPING ONE PERCENT IN THE DIRECTION OF OIL RETURN. LIQUID LINES MAY BE INSTALLED LEVEL.
- INSTALL HORIZONTAL REFRIGERANT SUCTION LINES WITH 1/2 INCH PER 10 FEET DOWNWARD SLOPE TO THE COMPRESSOR, WITH NO LONG TRAPS OR DEAD ENDS THAT MAY CAUSE OIL TO SEPARATE FROM THE SUCTION GAS AND RETURN TO THE COMPRESSOR IN DAMAGING SLOWS.

PROJECT INFORMATION

PROJECT TITLE
MYERSVILLE COMMUNITY LIBRARY
 PROJECT ADDRESS
8 HARP PLACE MYERSVILLE, MD 21773

PROJECT OWNER
FREDERICK COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

PROJECT TEAM
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Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No:45511
 Expiration Date: 06/03/2020

SHEET INFORMATION

KEY PLAN

REVISIONS

REV. #:	DESCRIPTION:	DATE:

PROJECT STATUS

JOB NUMBER:	16-1043
ISSUE DATE:	10 APRIL 2018
SCALE:	AS INDICATED
SHEET TITLE:	

SYMBOLS, ABBREVIATIONS, AND NOTES

SHEET NUMBER:

M001

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KEY PLAN

REVISIONS

REV. #:	DESCRIPTION:	DATE:

PROJECT STATUS

JOB NUMBER: **16-1043**
ISSUE DATE: **10 APRIL 2018**
SCALE: **AS INDICATED**
SHEET TITLE:

FIRST FLOOR PLAN-MECHANICAL

SHEET NUMBER:

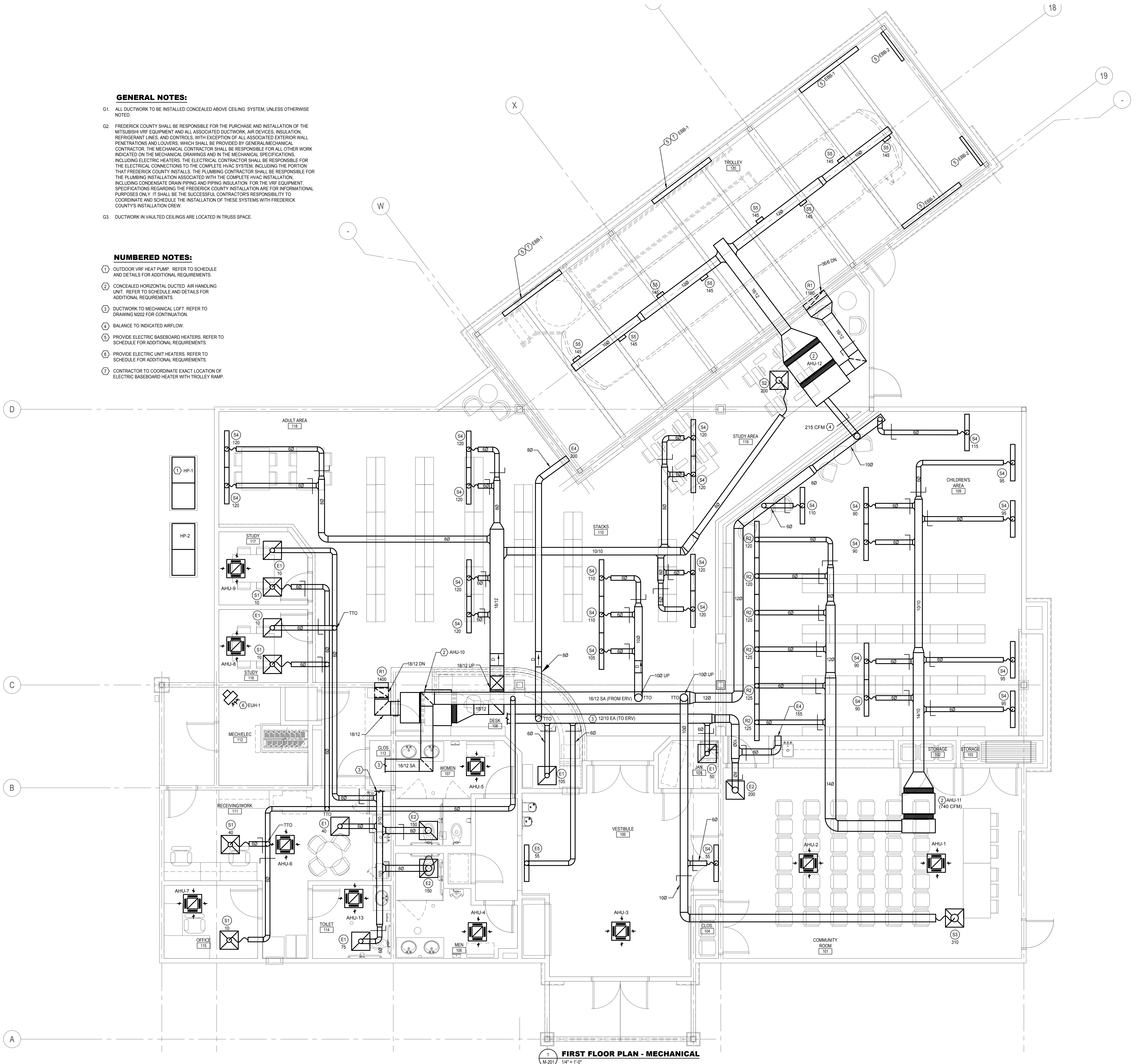
M201

GENERAL NOTES:

- G1. ALL DUCTWORK TO BE INSTALLED CONCEALED ABOVE CEILING SYSTEM, UNLESS OTHERWISE NOTED.
- G2. FREDERICK COUNTY SHALL BE RESPONSIBLE FOR THE PURCHASE AND INSTALLATION OF THE MITSUBISHI VRF EQUIPMENT AND ALL ASSOCIATED DUCTWORK, AIR DEVICES, INSULATION, REFRIGERANT LINES, AND CONTROLS, WITH EXCEPTION OF ALL ASSOCIATED EXTERIOR WALL PENETRATIONS AND LOUVERS, WHICH SHALL BE PROVIDED BY GENERAL MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OTHER WORK INDICATED ON THE MECHANICAL DRAWINGS AND IN THE MECHANICAL SPECIFICATIONS, INCLUDING ELECTRIC HEATERS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL CONNECTIONS TO THE COMPLETE HVAC SYSTEM, INCLUDING THE PORTION THAT FREDERICK COUNTY INSTALLS. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLUMBING INSTALLATION ASSOCIATED WITH THE COMPLETE HVAC INSTALLATION, INCLUDING CONDENSATE DRAIN PIPING AND PIPING INSULATION FOR THE VRF EQUIPMENT. SPECIFICATIONS REGARDING THE FREDERICK COUNTY INSTALLATION ARE FOR INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE SUCCESSFUL CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND SCHEDULE THE INSTALLATION OF THESE SYSTEMS WITH FREDERICK COUNTY'S INSTALLATION CREW.
- G3. DUCTWORK IN VAULTED CEILINGS ARE LOCATED IN TRUSS SPACE.

NUMBERED NOTES:

1. OUTDOOR VRF HEAT PUMP. REFER TO SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
2. CONCEALED HORIZONTAL DUCTED AIR HANDLING UNIT. REFER TO SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
3. DUCTWORK TO MECHANICAL LOFT. REFER TO DRAWING M202 FOR CONTINUATION.
4. BALANCE TO INDICATED AIRFLOW.
5. PROVIDE ELECTRIC BASEBOARD HEATERS. REFER TO SCHEDULE FOR ADDITIONAL REQUIREMENTS.
6. PROVIDE ELECTRIC UNIT HEATERS. REFER TO SCHEDULE FOR ADDITIONAL REQUIREMENTS.
7. CONTRACTOR TO COORDINATE EXACT LOCATION OF ELECTRIC BASEBOARD HEATER WITH TROLLEY RAMP.



FIRST FLOOR PLAN - MECHANICAL
1 M-201 1/4" = 1'-0"

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FREDERICK COUNTY,
MARYLAND
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WORKS



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License No: 45511
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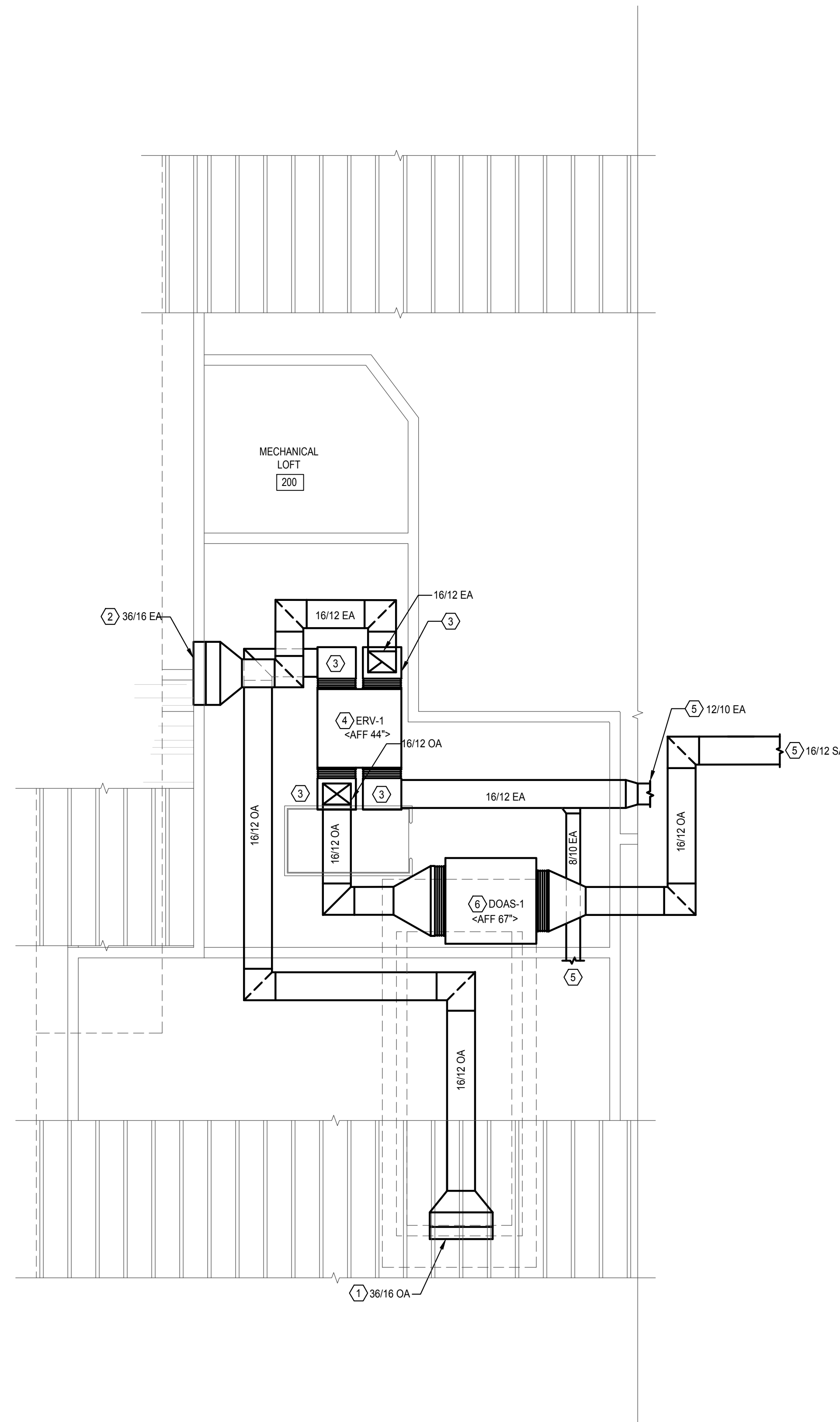
REV. #:	DESCRIPTION:	DATE:
-	-	-

JOB NUMBER: 16-1043
ISSUE DATE: 10 APRIL 2018
SCALE: AS INDICATED
SHEET TITLE:

PART PLAN LOFT-MECHANICAL

SHEET NUMBER:

M202



1 PART PLAN LOFT - MECHANICAL
M-202 1/4" = 1'-0"

GENERAL NOTES:

- G1. ALL DUCTWORK TO BE INSTALLED CONCEALED ABOVE CEILING SYSTEM, UNLESS OTHERWISE NOTED.
- G2. FREDERICK COUNTY SHALL BE RESPONSIBLE FOR THE PURCHASE AND INSTALLATION OF THE MITSUBISHI VRF EQUIPMENT AND ALL ASSOCIATED DUCTWORK, AIR DEVICES, INSULATION, REFRIGERANT LINES, AND CONTROLS, WITH EXCEPTION OF ALL ASSOCIATED EXTERIOR WALL PENETRATIONS AND LOUVERS, WHICH SHALL BE PROVIDED BY GENERAL MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OTHER WORK INDICATED ON THE MECHANICAL DRAWINGS AND IN THE MECHANICAL SPECIFICATIONS, INCLUDING ELECTRIC HEATERS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL CONNECTIONS TO THE COMPLETE HVAC SYSTEM, INCLUDING THE PORTION THAT FREDERICK COUNTY INSTALLS. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLUMBING INSTALLATION ASSOCIATED WITH THE COMPLETE HVAC INSTALLATION, INCLUDING CONDENSATE DRAIN PIPING AND PIPING INSULATION FOR THE VRF EQUIPMENT. SPECIFICATIONS REGARDING THE FREDERICK COUNTY INSTALLATION ARE FOR INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE SUCCESSFUL CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND SCHEDULE THE INSTALLATION OF THESE SYSTEMS WITH FREDERICK COUNTY'S INSTALLATION CREW.

NUMBERED NOTES:

- 1. OUTSIDE AIR DISCHARGE LOUVER AT INDICATED SIZE MINIMUM 50% FREE AREA, LOCATED IN ARCHITECTURAL DORMER.
- 2. EXHAUST AIR DISCHARGE LOUVER AT INDICATED SIZE MINIMUM 50% FREE AREA, LOCATED IN ARCHITECTURAL DORMER.
- 3. FIELD FABRICATED INSULATED PLENUM AT 22W/18L/22H. PROVIDE TWO (2) CONNECTIONS, TOP AND BOTTOM, TO ERV.
- 4. ENERGY RECOVERY VENTILATOR REFER TO SCHEDULE AND DETAIL FOR ADDITIONAL REQUIREMENTS.
- 5. DUCTWORK TO LIBRARY. REFER TO DRAWING M-201 FOR CONTINUATION.
- 6. DEDICATED OUTSIDE AIR SYSTEM REFER TO SCHEDULE FOR ADDITIONAL REQUIREMENTS.

MYERSVILLE COMMUNITY LIBRARY

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SHEET INFORMATION

KEY PLAN

REVISIONS

REV. #:	DESCRIPTION:	DATE:

PROJECT STATUS

JOB NUMBER: 16-1043
ISSUE DATE: 10 APRIL 2018
SCALE: AS INDICATED
SHEET TITLE:

FIRST FLOOR PLAN-MECHANICAL PIPING

SHEET NUMBER:

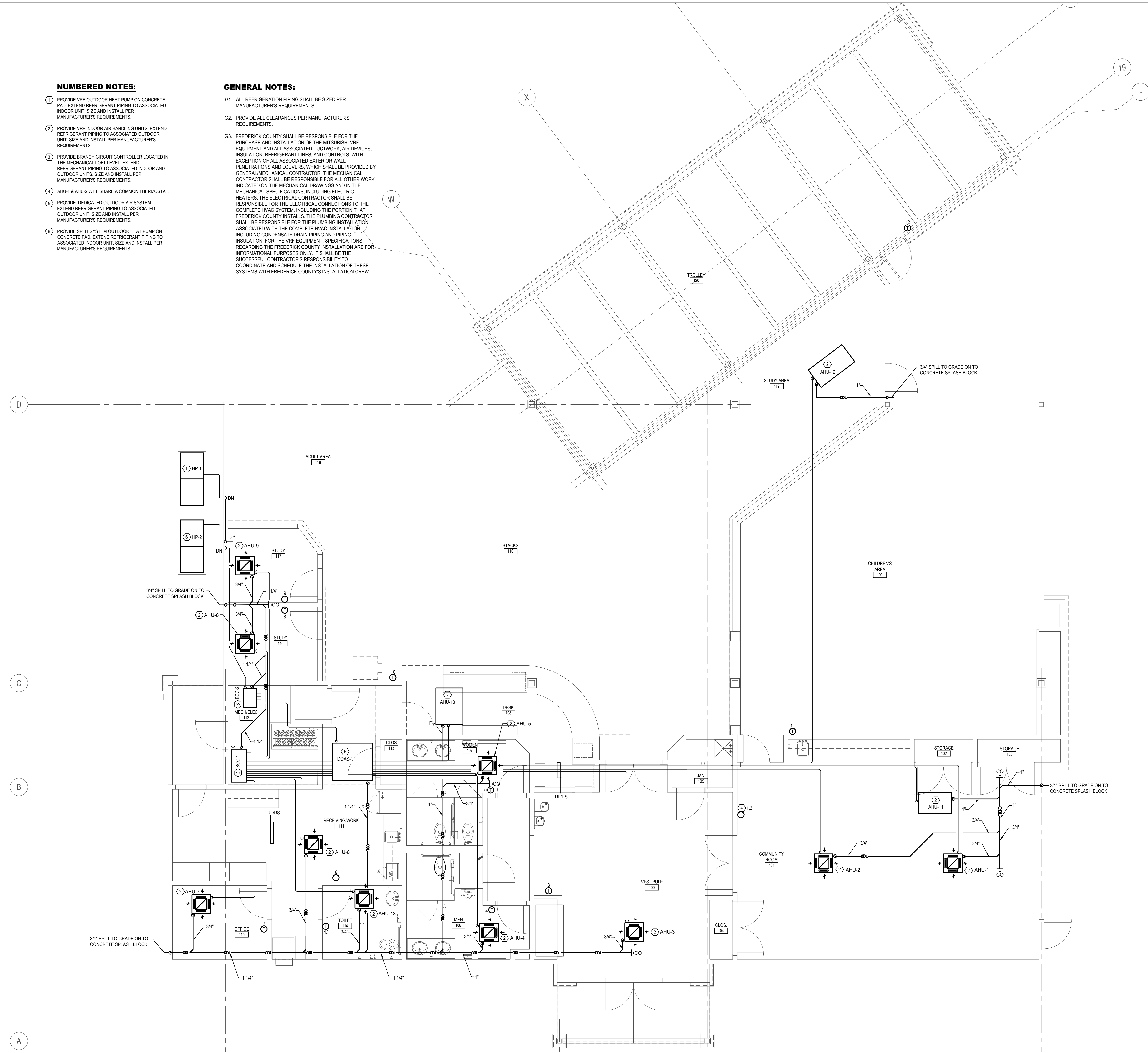
M301

NUMBERED NOTES:

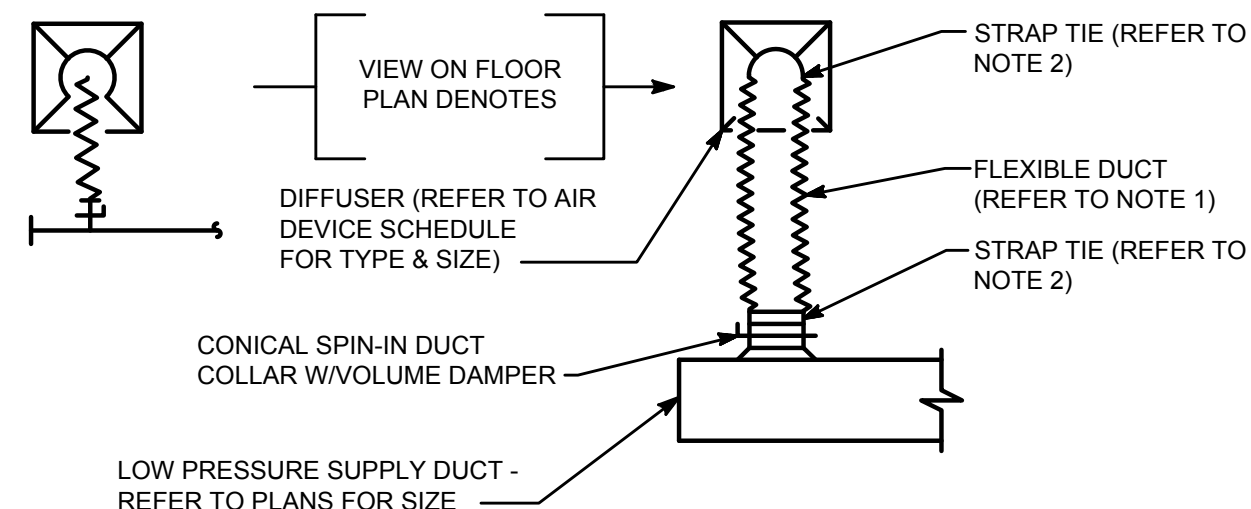
- 1 PROVIDE VRF OUTDOOR HEAT PUMP ON CONCRETE PAD. EXTEND REFRIGERANT PIPING TO ASSOCIATED INDOOR UNIT. SIZE AND INSTALL PER MANUFACTURER'S REQUIREMENTS.
- 2 PROVIDE VRF INDOOR AIR HANDLING UNITS. EXTEND REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. SIZE AND INSTALL PER MANUFACTURER'S REQUIREMENTS.
- 3 PROVIDE BRANCH CIRCUIT CONTROLLER LOCATED IN THE MECHANICAL LOFT LEVEL. EXTEND REFRIGERANT PIPING TO ASSOCIATED INDOOR AND OUTDOOR UNITS. SIZE AND INSTALL PER MANUFACTURER'S REQUIREMENTS.
- 4 AHU-1 & AHU-2 WILL SHARE A COMMON THERMOSTAT.
- 5 PROVIDE DEDICATED OUTDOOR AIR SYSTEM. EXTEND REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. SIZE AND INSTALL PER MANUFACTURER'S REQUIREMENTS.
- 6 PROVIDE SPLIT SYSTEM OUTDOOR HEAT PUMP ON CONCRETE PAD. EXTEND REFRIGERANT PIPING TO ASSOCIATED INDOOR UNIT. SIZE AND INSTALL PER MANUFACTURER'S REQUIREMENTS.

GENERAL NOTES:

- G1. ALL REFRIGERATION PIPING SHALL BE SIZED PER MANUFACTURER'S REQUIREMENTS.
- G2. PROVIDE ALL CLEARANCES PER MANUFACTURER'S REQUIREMENTS.
- G3. FREDERICK COUNTY SHALL BE RESPONSIBLE FOR THE PURCHASE AND INSTALLATION OF THE MITSUBISHI VRF EQUIPMENT AND ALL ASSOCIATED DUCTWORK, AIR DEVICES, INSULATION, REFRIGERANT LINES, AND CONTROLS, WITH EXCEPTION OF ALL ASSOCIATED EXTERIOR WALL PENETRATIONS AND LOUVERS, WHICH SHALL BE PROVIDED BY GENERAL MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OTHER WORK INDICATED ON THE MECHANICAL DRAWINGS AND IN THE MECHANICAL SPECIFICATIONS, INCLUDING ELECTRIC HEATERS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL CONNECTIONS TO THE COMPLETE HVAC SYSTEM, INCLUDING THE PORTION THAT FREDERICK COUNTY INSTALLS. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLUMBING INSTALLATION ASSOCIATED WITH THE COMPLETE HVAC INSTALLATION INCLUDING CONDENSATE DRAIN PIPING AND PIPING INSULATION FOR THE VRF EQUIPMENT. SPECIFICATIONS REGARDING THE FREDERICK COUNTY INSTALLATION ARE FOR INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE SUCCESSFUL CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND SCHEDULE THE INSTALLATION OF THESE SYSTEMS WITH FREDERICK COUNTY'S INSTALLATION CREW.

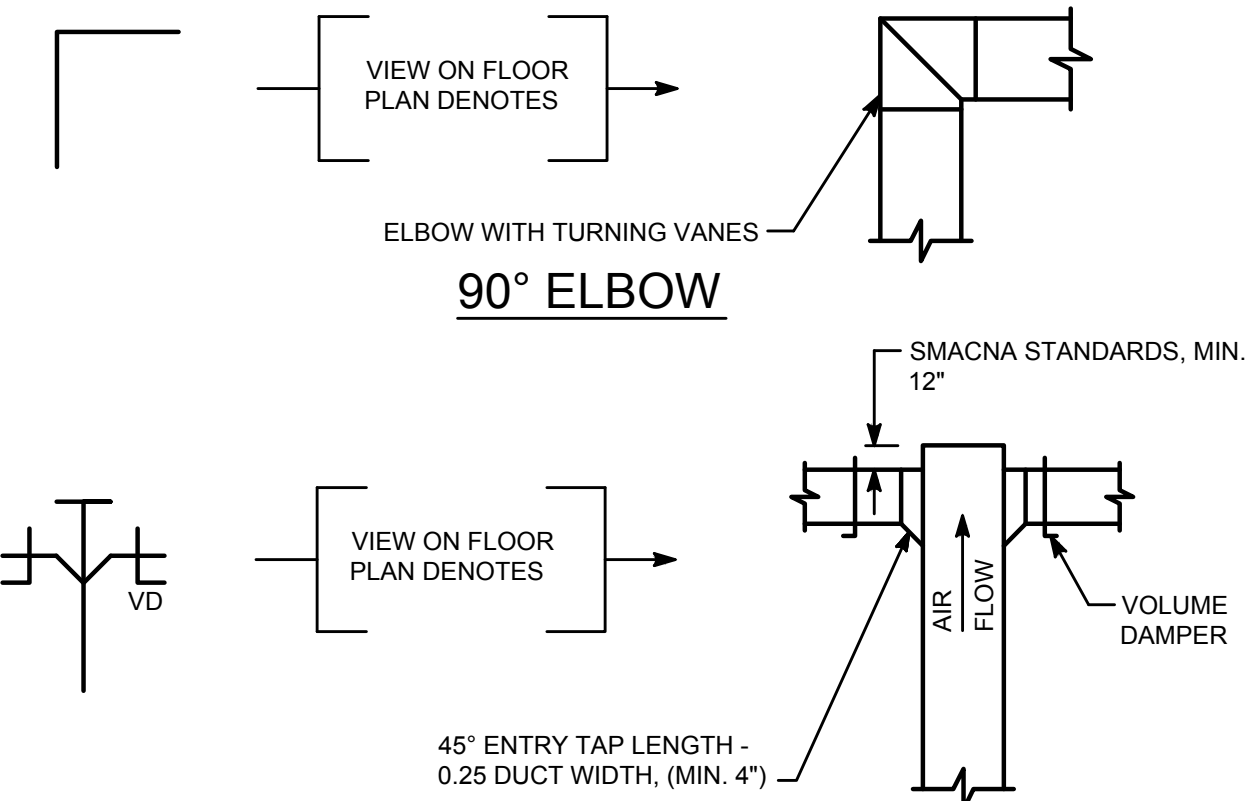


FIRST FLOOR PLAN - MECHANICAL
1/4" = 1'-0"



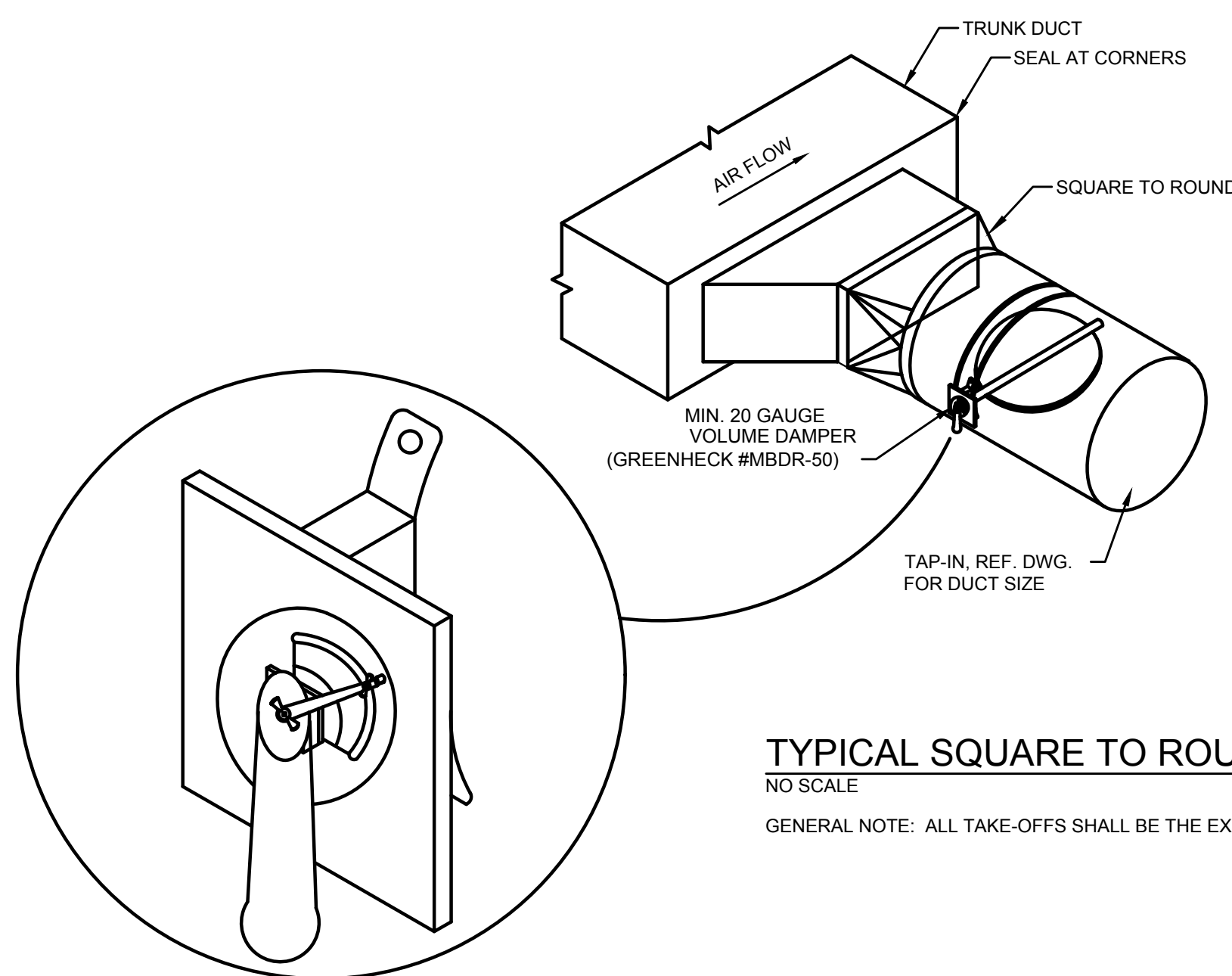
DETAIL - TYPICAL SQUARE DIFFUSER
NOT TO SCALE

- NOTES:
1. ALL FLEXIBLE DUCT SHALL BE MAX. 6'-0" LENGTH, FREE OF SHARP BENDS & KINKS
 2. INDIVIDUALLY STRAP TIE INNER AND OUTER FLEXIBLE DUCT COVERINGS TO SPIN-IN DUCT COLLAR AND DIFFUSER NECK.



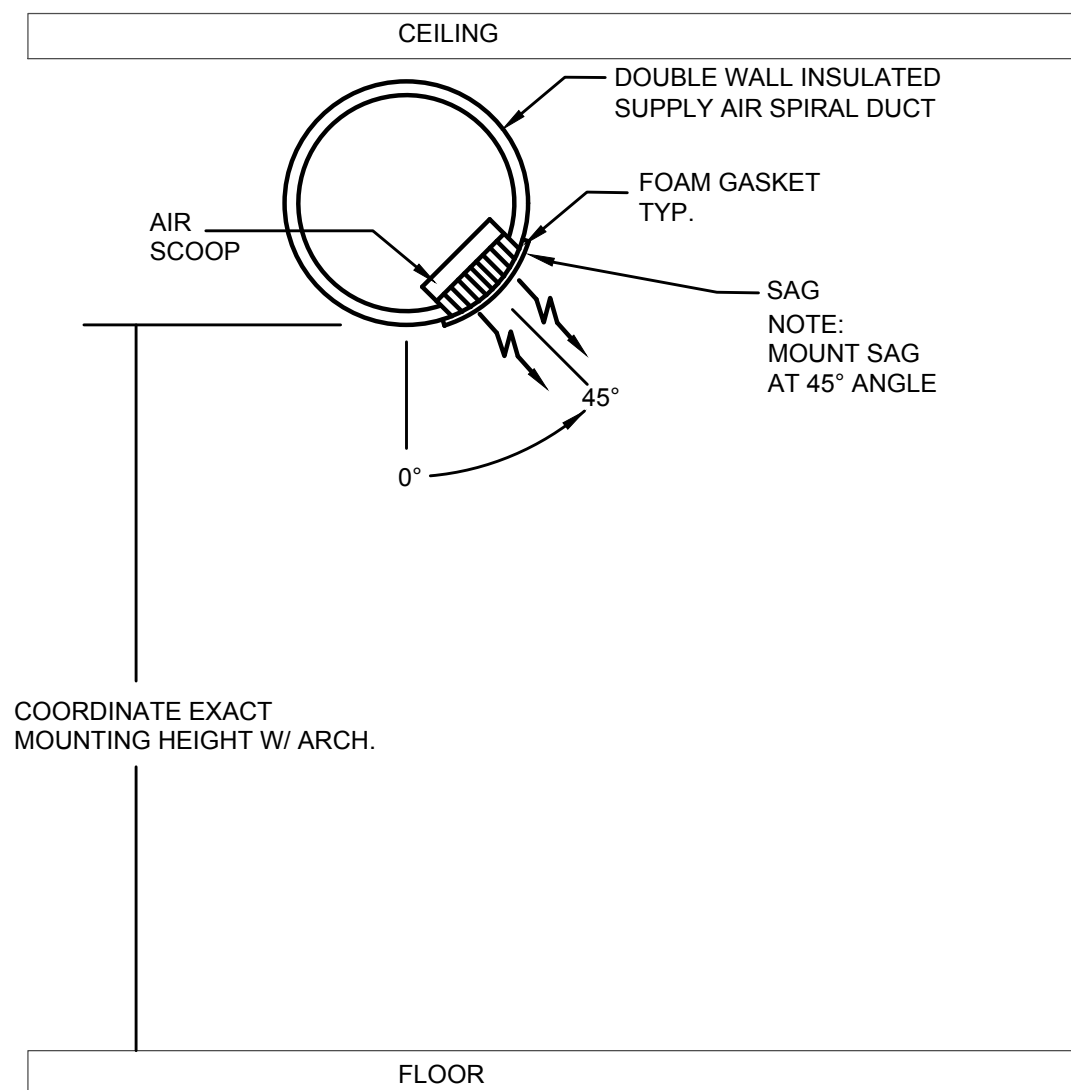
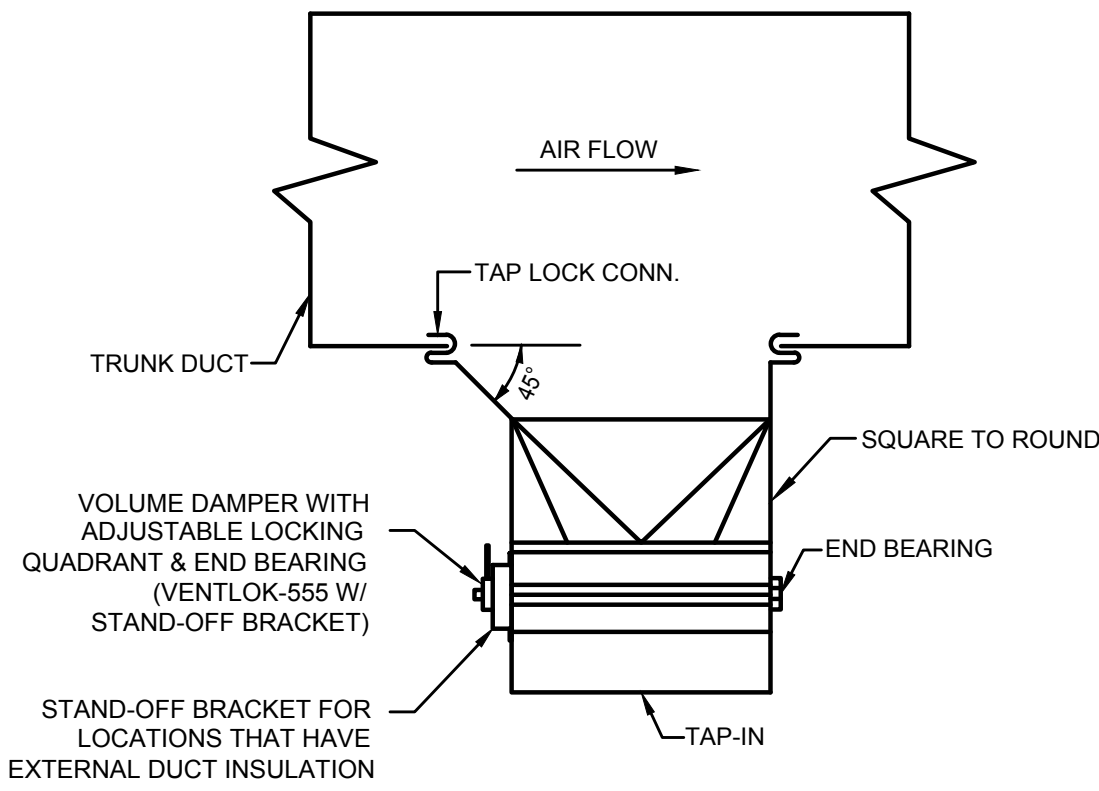
BRANCH CONNECTION
DETAIL - DUCT CONNECTIONS

NOT TO SCALE

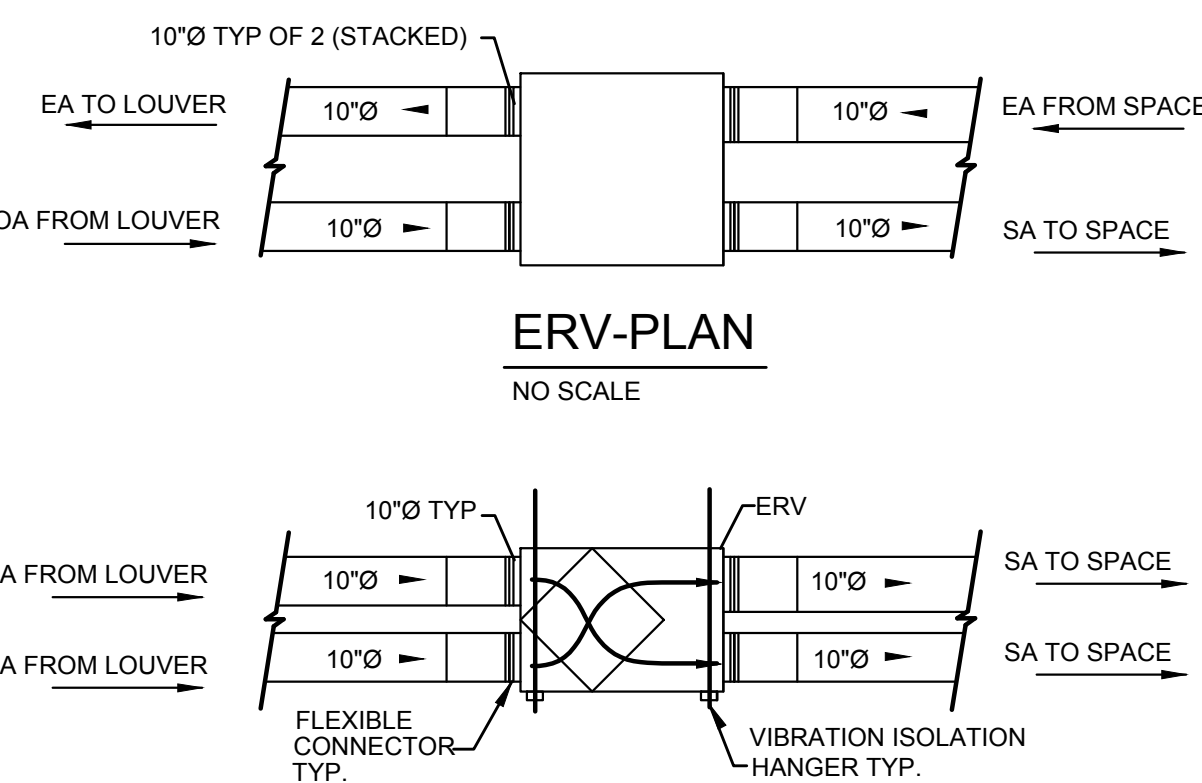


TYPICAL SQUARE TO ROUND EXPANDED TAKE-OFF DETAIL
NO SCALE

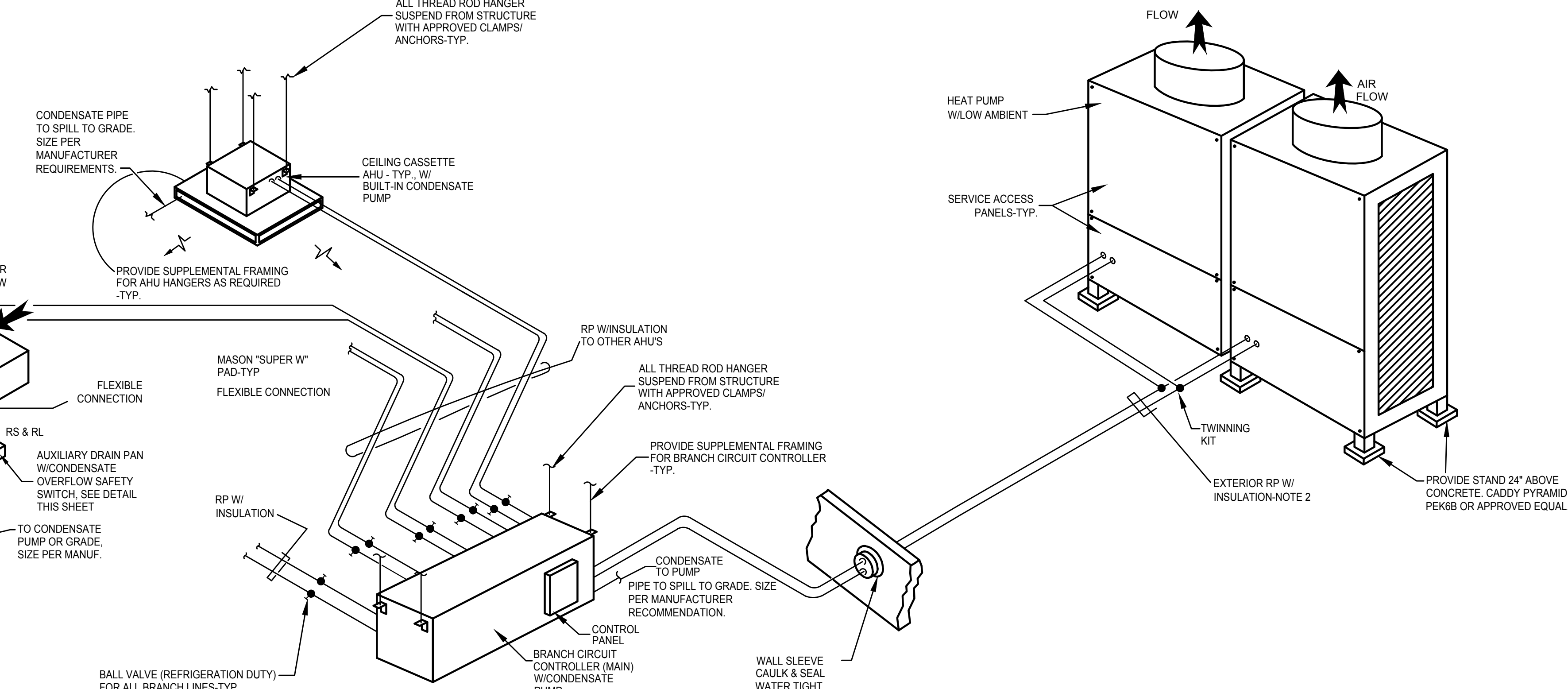
GENERAL NOTE: ALL TAKE-OFFS SHALL BE THE EXPANDED TYPE AS DETAILED. SEE DRAWINGS FOR VOLUME DAMPER LOCATIONS.



SPIRAL DUCT SUPPLY AIR GRILLE DETAIL
NO SCALE

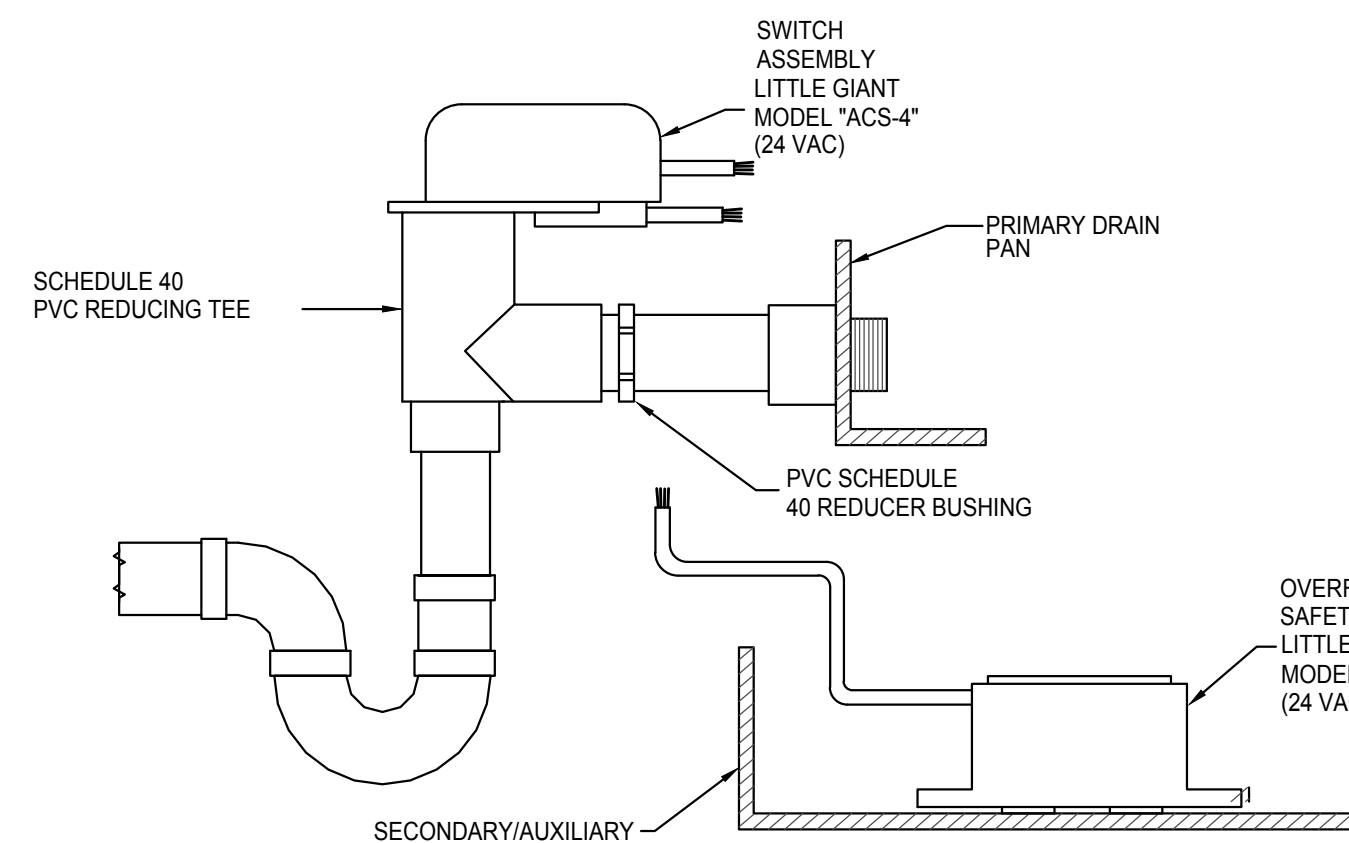


ERV-SECTION
NO SCALE



VARIABLE REFRIGERANT FLOW SIMULTANEOUS HEAT PUMP SYSTEM SCHEMATIC
NO SCALE

NOTE 1: ALL EXTERIOR RP SHALL BE COVERED WITH VENTURE CLAD 1577CW JACKETING SYSTEM BY VENTURE TAPE OR APPROVED EQUAL.



CONDENSATE OVERFLOW DETECTION SCHEMATIC
NO SCALE

GENERAL NOTES:

- G1: FREDERICK COUNTY SHALL BE RESPONSIBLE FOR THE PURCHASE AND INSTALLATION OF THE MITSUBISHI VRF EQUIPMENT AND ALL ASSOCIATED DUCTWORK, AIR DEVICES, INSULATION, REFRIGERANT LINES, AND CONTROLS, WITH EXCEPTION OF ALL ASSOCIATED EXTERIOR WALL PENETRATIONS AND LOUVERS, WHICH SHALL BE PROVIDED BY GENERAL MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OTHER WORK INDICATED ON THE MECHANICAL DRAWINGS AND IN THE MECHANICAL SPECIFICATIONS, INCLUDING ELECTRIC HEATERS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL CONNECTIONS TO THE COMPLETE HVAC SYSTEM, INCLUDING THE PORTION THAT FREDERICK COUNTY INSTALLS. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLUMBING INSTALLATION ASSOCIATED WITH THE COMPLETE HVAC INSTALLATION, INCLUDING CONDENSATE DRAIN PIPING AND PIPING INSULATION FOR THE VRF EQUIPMENT. SPECIFICATIONS REGARDING THE FREDERICK COUNTY INSTALLATION ARE FOR INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE SUCCESSFUL CONTRACTORS RESPONSIBILITY TO COORDINATE AND SCHEDULE THE INSTALLATION OF THESE SYSTEMS WITH FREDERICK COUNTY'S INSTALLATION CREW.

PROJECT INFORMATION

PROJECT TITLE

MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
8 HARP PLACE
MYERSVILLE, MD 21773

PROJECT OWNER

FREDERICK COUNTY,
MARYLAND
DEPARTMENT OF PUBLIC WORKS

PROJECT TEAM

ARCHITECT



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ARCHITECTS

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Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No:45511
Expiration Date: 06/03/2020

SHEET INFORMATION

KEY PLAN

REVISIONS

REV. #:	DESCRIPTION:	DATE:

PROJECT STATUS

JOB NUMBER: 16-1043
ISSUE DATE: 10 APRIL 2018
SCALE: AS INDICATED
SHEET TITLE:

MECHANICAL - DETAILS

SHEET NUMBER:

M501

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ELECTRIC UNIT HEATER SCHEDULE					
DESIG.	SERVICE	KW	VOLTAGE	NOTES	MANUF. MODEL
EUH-1	112 MECH/ ELEC	3	240/1/60	1,2	Q MARK MUH03-21

- NOTES:
 1. U.L LISTED
 2. SIDE MNT. TSTAT

ELECTRIC BASE BOARD SCHEDULE					
DESIG.	SERVICE	KW	VOLTAGE	NOTES	MANUF. MODEL
EBB-1	120 TROLLEY	2	240/1/60	1,2,3	Q MARK CBD2004
EBB-2	120 TROLLEY	1	240/1/60	1,2,3	Q MARK CBD1004

- NOTES:
 1. UL LISTED
 2. BUILT IN THERMOSTAT
 3. RECESSED MOUNT FRAME

VARIABLE REFRIGERANT FLOW HEAT PUMP OUTDOOR UNIT SCHEDULE (NOTE 4)										
DESIG.	COOLING TC	HEATING TC	HEATING TC	ELECTRICAL			APPROX UNIT	REMARKS	MANUFACTURER	MODEL
	MBH @ 95°F	MBH @ 47°F	MBH @ 5°F	V/PHHZ	MCA	MOCP	WEIGHT (lbs)			
HP-1	168	188	112.8	240/3/60	83	100	700	1,2,3	mitsubishi	PURY-P186TLMU-A
HP-2	120	135	135	240/3/60	39	60	695	1,2,3	mitsubishi	PURY-P120TLMU-A

- NOTES:
 1. U.L LISTED
 2. PROVIDE SNOW SENSOR
 3. LOW AMBIENT CONTROL TO O/F
 4. FREDERICK COUNTY SHALL BE RESPONSIBLE FOR THE PURCHASE AND INSTALLATION OF THE MITSUBISHI VRF EQUIPMENT AND ALL ASSOCIATED DUCTWORK, AIR DEVICES, INSULATION, REFRIGERANT LINES, AND CONTROLS, WITH EXCEPTION OF ALL ASSOCIATED EXTERIOR WALL PENETRATIONS AND LOUVERS, WHICH SHALL BE PROVIDED BY THE GENERAL/MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OTHER WORK INDICATED ON THE MECHANICAL DRAWINGS AND IN THE MECHANICAL SPECIFICATIONS, INCLUDING ELECTRIC HEATERS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL CONNECTIONS TO THE COMPLETE HVAC SYSTEM, INCLUDING THE PORTION THAT FREDERICK COUNTY INSTALLS. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLUMBING INSTALLATION ASSOCIATED WITH THE COMPLETE HVAC INSTALLATION, INCLUDING CONDENSATE DRAIN PIPING AND PIPING INSULATION FOR THE VRF EQUIPMENT. SPECIFICATIONS REGARDING THE FREDERICK COUNTY INSTALLATION ARE FOR INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE SUCCESSFUL CONTRACTORS RESPONSIBILITY TO COORDINATE AND SCHEDULE THE INSTALLATION OF THESE SYSTEMS WITH FREDERICK COUNTY'S INSTALLATION CREW.

IMC Ventilation Table											
System	ERV-1 (Single Zone System)										
Room	Description	Area Ft2	Area Outdoor Air Rate Per IMC Table 403.3 RA	Area Outdoor RaAz	Occupant Load Rate Per IMC Table 403.3 (People/ 1000 R2)	Occupancy PZ	Occupant Outdoor Air Rate Per Table 403.3 Rp	Breathing Zone Outdoor Air Vbz= RpPz + RaAz	Zone Air Distribution Effectiveness Ez	Zone Outdoor Air Voz= Vbz/ Ez	Supply Air Design Vpz
100 Vestibule	Main Entry	400	0.06	24	10	4	5	20	0.8	25	55
101 Community Room	Conference Room	800	0.06	48	50	40	5	200	0.8	310	310
105 JC	Janitors Closet	35	0	0	0	0	0	0	0.8	0	0
106 Mens	Restroom	130	0	0	0	0	0	0	0.8	0	0
107 Womens	Restroom	125	0	0	0	0	0	0	0.8	0	0
108 Desk	Office	145	0.06	8.71	5	0.725	5	3.625	0.8	15.40625	15
109 Childrens Area	Libraries	1050	0.12	126	10	10.5	5	52.5	0.8	223.125	225
110 Stacks	Libraries	1050	0.12	126	10	10.5	5	52.5	0.8	223.125	225
111 Receiving Work	Office	375	0.06	22.5	5	1.875	5	9.375	0.8	39.84375	40
112 Mechanical	Mechanical	130	0	0	0	0	0	0	0.8	0	0
115 Office	Office	95	0.06	5.71	5	0.475	5	2.375	0.8	10.09375	10
116 Study	Office	100	0.06	6	5	0.5	5	2.5	0.8	10.625	10
117 Study	Office	95	0.06	5.7	5	0.475	5	2.375	0.8	10.09375	10
118 Adult Area	Libraries	140	0.12	16.8	10	1.4	5	7	0.8	29.75	30
119 Study Area	Libraries	250	0.12	30	10	2.5	5	12.5	0.8	53.125	55
120 Trolley	Libraries	1000	0.12	120	10	10	5	50	0.8	212.5	215
Totals		5920		539.4		82.95		414.75		954.15	1200
								Total Required Outdoor Air (Vot)		Total Outdoor Air Provided	
											1,192.68
								Percentage of outdoor Air		Percentage of outdoor Air	
									99.4%		100.0%

ENERGY RECOVERY VENTILATOR SCHEDULE (NOTE 2)																			
DESIG.	DESIGN CONDITIONS	SUPPLY					EXHAUST					ELECTRICAL	MCA	MOCP	MAX UNIT WEIGHT (LBS)	REMARKS	MANUFACTURER	MODEL	
		CFM	ESP	HP	EAT °F DB	EAT °F WB	LAT °F DB	LAT °F WB	CFM	ESP	HP								EAT °F DB
ERV-1	SUMMER	1200	0.60	0.5	85	78	69.4	1200	0.60	0.5	75	50	240/1/60	7.1	15	265	1,2	mitsubishi	LGH-F1200RS-E
	WINTER				0	-1	53.3				70	35							

- NOTES:
 1. U.L LISTED
 2. FREDERICK COUNTY SHALL BE RESPONSIBLE FOR THE PURCHASE AND INSTALLATION OF THE MITSUBISHI VRF EQUIPMENT AND ALL ASSOCIATED DUCTWORK, AIR DEVICES, INSULATION, REFRIGERANT LINES, AND CONTROLS, WITH EXCEPTION OF ALL ASSOCIATED EXTERIOR WALL PENETRATIONS AND LOUVERS, WHICH SHALL BE PROVIDED BY THE GENERAL/MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OTHER WORK INDICATED ON THE MECHANICAL DRAWINGS AND IN THE MECHANICAL SPECIFICATIONS, INCLUDING ELECTRIC HEATERS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL CONNECTIONS TO THE COMPLETE HVAC SYSTEM, INCLUDING THE PORTION THAT FREDERICK COUNTY INSTALLS. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLUMBING INSTALLATION ASSOCIATED WITH THE COMPLETE HVAC INSTALLATION, INCLUDING CONDENSATE DRAIN PIPING AND PIPING INSULATION FOR THE VRF EQUIPMENT. SPECIFICATIONS REGARDING THE FREDERICK COUNTY INSTALLATION ARE FOR INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE SUCCESSFUL CONTRACTORS RESPONSIBILITY TO COORDINATE AND SCHEDULE THE INSTALLATION OF THESE SYSTEMS WITH FREDERICK COUNTY'S INSTALLATION CREW.

DEDICATED OUTSIDE AIR SYSTEM SCHEDULE (NOTE 1)																			
DESIG.	DESIGN CONDITIONS	SUPPLY					EXHAUST					ELECTRICAL	MCA	MOCP	MAX UNIT WEIGHT (LBS)	REMARKS	MANUFACTURER	MODEL	
		CFM	ESP	HP	EAT °F DB	EAT °F WB	LAT °F DB	LAT °F WB	CFM	ESP	HP								EAT °F DB
DOAS-1	SUMMER	1200	0.8		81.4	70.6	69.4	1200	0.60	0.5	75	50	240/1/60	4.31	15	310	1	mitsubishi	PEFY-AF1200CFMR
	WINTER				52.1	41.5	70				70	30							

- NOTES:
 1. FREDERICK COUNTY SHALL BE RESPONSIBLE FOR THE PURCHASE AND INSTALLATION OF THE MITSUBISHI VRF EQUIPMENT AND ALL ASSOCIATED DUCTWORK, AIR DEVICES, INSULATION, REFRIGERANT LINES, AND CONTROLS, WITH EXCEPTION OF ALL ASSOCIATED EXTERIOR WALL PENETRATIONS AND LOUVERS, WHICH SHALL BE PROVIDED BY THE GENERAL/MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OTHER WORK INDICATED ON THE MECHANICAL DRAWINGS AND IN THE MECHANICAL SPECIFICATIONS, INCLUDING ELECTRIC HEATERS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL CONNECTIONS TO THE COMPLETE HVAC SYSTEM, INCLUDING THE PORTION THAT FREDERICK COUNTY INSTALLS. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLUMBING INSTALLATION ASSOCIATED WITH THE COMPLETE HVAC INSTALLATION, INCLUDING CONDENSATE DRAIN PIPING AND PIPING INSULATION FOR THE VRF EQUIPMENT. SPECIFICATIONS REGARDING THE FREDERICK COUNTY INSTALLATION ARE FOR INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE SUCCESSFUL CONTRACTORS RESPONSIBILITY TO COORDINATE AND SCHEDULE THE INSTALLATION OF THESE SYSTEMS WITH FREDERICK COUNTY'S INSTALLATION CREW.

VARIABLE REFRIGERANT FLOW AIR HANDLING UNIT SCHEDULE (NOTE 6)														
DESIG.	NOMINAL AIRFLOW	COOLING MBH		HEATING MBH @ 0°F	STYLE	ELECTRICAL			CONNECTED TO		REMARKS	MANUFACTURER	MODEL	
		TC	SC			V/PHHZ	MCA	MOCP	HP	BCC				
AHU-1	390	15	11.25	17	CEILING CASSETTE	240/1/60	0.35	15	1	1	1,2,3,5	mitsubishi	PLFY-P15NCMU-E	
AHU-2	390	15	11.25	17	CEILING CASSETTE	240/1/60	0.35	15	1	1	1,2,3,5	mitsubishi	PLFY-P15NCMU-E	
AHU-3	390	12	9	13.5	CEILING CASSETTE	240/1/60	0.35	15	1	1	1,2,3,5	mitsubishi	PLFY-P12NCMU-E	
AHU-4	390	8	6	9	CEILING CASSETTE	240/1/60	0.29	15	1	1	1,2,3,5	mitsubishi	PLFY-P08NCMU-E	
AHU-5	350	8	6	9	CEILING CASSETTE	240/1/60	0.29	15	1	1	1,2,3,5	mitsubishi	PLFY-P08NCMU-E	
AHU-6	350	12	9	13.5	CEILING CASSETTE	240/1/60	0.35	15	1	1	1,2,3,5	mitsubishi	PLFY-P08NCMU-E	
AHU-7	350	8	6	9	CEILING CASSETTE	240/1/60	0.29	15	1	1	1,2,3,5	mitsubishi	PLFY-P12NCMU-E	
AHU-8	350	8	6	9	CEILING CASSETTE	240/1/60	0.29	15	1	1	1,2,3,5	mitsubishi	PLFY-P08NCMU-E	
AHU-9	350	8	6	9	CEILING CASSETTE	240/1/60	0.29	15	1	1	1,2,3,5	mitsubishi	PLFY-P08NCMU-E	
AHU-10	1,410	54	40.5	60	CEILING CONCEALED	240/1/60	4.73	15	1	1	1,2,3,4	mitsubishi	PEFY-P5NMAU-E	
AHU-11	740	27	20.25	30	CEILING CONCEALED	240/1/60	2.49	15	1	1	1,2,3,4	mitsubishi	PEFY-P27NMAU-E	
AHU-12	1,165	36	27	40	CEILING CONCEALED	240/1/60	3.33	15	1	1	1,2,3,4	mitsubishi	PEFY-P58NMAU-E	
AHU-13	350	8	6	9	CEILING CASSETTE	240/1/60	0.29	15	1	1	1,2,3,4	mitsubishi	PLFY-P08NCMU-E	

- NOTES:
 1. U.L LISTED
 2. WALL MNT. TSTAT
 3. WASHABLE FILTER
 4. PROVIDE SAUERERMANN CONDENSATE PUMP
 5. B.I. CONDENSATE PUMP
 6. FREDERICK COUNTY SHALL BE RESPONSIBLE FOR THE PURCHASE AND INSTALLATION OF THE MITSUBISHI VRF EQUIPMENT AND ALL ASSOCIATED DUCTWORK, AIR DEVICES, INSULATION, REFRIGERANT LINES, AND CONTROLS, WITH EXCEPTION OF ALL ASSOCIATED EXTERIOR WALL PENETRATIONS AND LOUVERS, WHICH SHALL BE PROVIDED BY THE GENERAL/MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OTHER WORK INDICATED ON THE MECHANICAL DRAWINGS AND IN THE MECHANICAL SPECIFICATIONS, INCLUDING ELECTRIC HEATERS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL CONNECTIONS TO THE COMPLETE HVAC SYSTEM, INCLUDING THE PORTION THAT FREDERICK COUNTY INSTALLS. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLUMBING INSTALLATION ASSOCIATED WITH THE COMPLETE HVAC INSTALLATION, INCLUDING CONDENSATE DRAIN PIPING AND PIPING INSULATION FOR THE VRF EQUIPMENT. SPECIFICATIONS REGARDING THE FREDERICK COUNTY INSTALLATION ARE FOR INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE SUCCESSFUL CONTRACTORS RESPONSIBILITY TO COORDINATE AND SCHEDULE THE INSTALLATION OF THESE SYSTEMS WITH FREDERICK COUNTY'S INSTALLATION CREW.

BRANCH CIRCUIT CONTROLLER SCHEDULE (NOTE 2)									
DESIG.	BRANCH NUMBERS	VOLTAGE	MCA	MOCP	APPROX UNIT WEIGHT (LBS)	REMARKS	DETAILS	MANUFACTURER	MODEL
BCC-1	16	240V/110/60HZ	1.93	15	172	U.L., MAIN	1,2	mitsubishi	CMB-P1016NU-HA
BCC-2	5	240V/110/60HZ	0.4	15	72	U.L., MAIN	1,2	mitsubishi	CMB-P105NU-G

- NOTES:
 1. PROVIDE SAUERERMANN CONDENSATE PUMP
 2. FREDERICK COUNTY SHALL BE RESPONSIBLE FOR THE PURCHASE AND INSTALLATION OF THE MITSUBISHI VRF EQUIPMENT AND ALL ASSOCIATED DUCTWORK, AIR DEVICES, INSULATION, REFRIGERANT LINES, AND CONTROLS, WITH EXCEPTION OF ALL ASSOCIATED EXTERIOR WALL PENETRATIONS AND LOUVERS, WHICH SHALL BE PROVIDED BY THE GENERAL/MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OTHER WORK INDICATED ON THE MECHANICAL DRAWINGS AND IN THE MECHANICAL SPECIFICATIONS, INCLUDING ELECTRIC HEATERS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL CONNECTIONS TO THE COMPLETE HVAC SYSTEM, INCLUDING THE PORTION THAT FREDERICK COUNTY INSTALLS. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLUMBING INSTALLATION ASSOCIATED WITH THE COMPLETE HVAC INSTALLATION, INCLUDING CONDENSATE DRAIN PIPING AND PIPING INSULATION FOR THE VRF EQUIPMENT. SPECIFICATIONS REGARDING THE FREDERICK COUNTY INSTALLATION ARE FOR INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE SUCCESSFUL CONTRACTORS RESPONSIBILITY TO COORDINATE AND SCHEDULE THE INSTALLATION OF THESE SYSTEMS WITH FREDERICK COUNTY'S INSTALLATION CREW.

AIR DEVICE SCHEDULE (NOTE 2)									
DESIG.	SERVICE	DESCRIPTION	NOMINAL SIZE (INCHES)	# OF SLOTS/ SLOT WIDTH (INCHES)	INLET/NECK SIZE (INCHES)	MAX N.C. LEVEL	FINISH	REMARKS	
S1	SUPPLY	LOUVERED CEILING DIFFUSER	18x18	-	4"ø	24	#26 FINISH	TITUS TDC, TYPE 3, 24"x24" MODULE (NOTE 1)	
S2	SUPPLY	LOUVERED CEILING DIFFUSER	18x18	-	6"ø	24	#26 FINISH	TITUS TDC, TYPE 3, 24"x24" MODULE (NOTE 1)	
S3	SUPPLY	LOUVERED CEILING DIFFUSER	18x18	-	10"ø	24	#26 FINISH	TITUS TDC, TYPE 3, 24"x24" MODULE (NOTE 1)	
S4	SUPPLY	LINEAR SLOT DIFFUSER	48x6	4	6"ø	24	#26 FINISH	TITUS MLR-38, TYPE 3, 48"x6" MODULE (NOTE 1)	
S5	SUPPLY	SUPPLY AIR REGISTER	10x6	-	-	24	#26 FINISH	TITUS S301FL AIR SCOOP	
R1	RETURN	RETURN AIR GRILLE	22x22	-	-	24	#26 FINISH	TITUS 350RL, 24"x24" MODULE (NOTE 1)	
R2	RETURN	LINEAR SLOT DIFFUSER	48x6	4	6"ø	24	#26 FINISH	TITUS MLR-38, TYPE 3, 48"x6" MODULE (NOTE 1)	
E1	EXHAUST	EXHAUST AIR GRILLE	22x22	-	6"ø	24	#26 FINISH	TITUS 350RL, TYPE 3, 24"x24" MODULE (NOTE 1)	
E2	EXHAUST	EXHAUST AIR GRILLE	22x22	-	8"ø	24	#26 FINISH	TITUS 350RL, TYPE 3, 24"x24" MODULE (NOTE 1)	
E3	EXHAUST	EXHAUST AIR GRILLE	22x22	-	10"ø	24	#26 FINISH	TITUS 350RL, TYPE 3, 24"x24" MODULE (NOTE 1)	
E4	EXHAUST	EXHAUST AIR GRILLE	22x22	-	-	24	#26 FINISH	TITUS 350RL, TYPE 1, 24"x24" MODULE (NOTE 1)	
E5	EXHAUST	LINEAR SLOT DIFFUSER	48x6	4	6"ø	24	#26 FINISH	TITUS MLR-38, TYPE 3, 48"x6" MODULE (NOTE 1)	

- NOTES:
 1. PROVIDE A SQUARE TO ROUND ADAPTOR
 2. FREDERICK COUNTY SHALL BE RESPONSIBLE FOR THE PURCHASE AND INSTALLATION OF THE MITSUBISHI VRF EQUIPMENT AND ALL ASSOCIATED DUCTWORK, AIR DEVICES, INSULATION, REFRIGERANT LINES, AND CONTROLS, WITH EXCEPTION OF ALL ASSOCIATED EXTERIOR WALL PENETRATIONS AND LOUVERS, WHICH SHALL BE PROVIDED BY THE GENERAL/MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OTHER WORK INDICATED ON THE MECHANICAL DRAWINGS AND IN THE MECHANICAL SPECIFICATIONS, INCLUDING ELECTRIC HEATERS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL CONNECTIONS TO THE COMPLETE HVAC SYSTEM, INCLUDING THE PORTION THAT FREDERICK COUNTY INSTALLS. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLUMBING INSTALLATION ASSOCIATED WITH THE COMPLETE HVAC INSTALLATION, INCLUDING CONDENSATE DRAIN PIPING AND PIPING INSULATION FOR THE VRF EQUIPMENT. SPECIFICATIONS REGARDING THE FREDERICK COUNTY INSTALLATION ARE FOR INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE SUCCESSFUL CONTRACTORS RESPONSIBILITY TO COORDINATE AND SCHEDULE THE INSTALLATION OF THESE SYSTEMS WITH FREDERICK COUNTY'S INSTALLATION CREW.

PROJECT INFORMATION

PROJECT TITLE

MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS

8 HARP PLACE
MYERSVILLE, MD 21773

PROJECT OWNER

FREDERICK COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

PROJECT TEAM

ARCHITECT



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HARRIS, SMARIGA & ASSOCIATES, INC.

125 SOUTH CARROLL STREET | FREDERICK, MD | 21701
P: 301.662.4488 | F: 301.662.4906

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No:45511-1

Expiration Date: 06/03/2020

SHEET INFORMATION

KEY PLAN

REVISIONS

REV. #:	DESCRIPTION:	DATE:

PROJECT STATUS

JOB NUMBER: 16-1043
 ISSUE DATE: 10 APRIL 2018
 SCALE: AS INDICATED
 SHEET TITLE:

MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
8 HARP PLACE
MYERSVILLE, MD 21773

PROJECT OWNER
FREDERICK COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

PROJECT TEAM



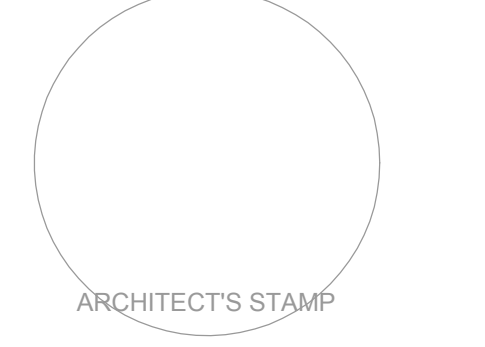
NOELKER AND HULL ASSOCIATES, INC.

STRUCTURAL ENGINEER
ABEL CONSULTING ENGINEERS

M/E/P ENGINEER
C.J. ENGINEERING

CIVIL ENGINEER
HARRIS, SMARIGA & ASSOCIATES, INC.

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No:45511. Expiration Date: 06/03/2020



SHEET INFORMATION

KEY PLAN

Table with 3 columns: REV. #, DESCRIPTION, DATE. Contains revision history.

PROJECT STATUS

JOB NUMBER: 16-1043
ISSUE DATE: 10 APRIL 2018
SCALE: AS INDICATED
SHEET TITLE:

PLUMBING SYMBOLS, ABBREVIATIONS, AND NOTES

SHEET NUMBER:

P001

PLUMBING ABBREVIATIONS

Table listing plumbing abbreviations from A to Z, including terms like AUTOMATIC AIR VENT, ABOVE CEILING, etc.

PLUMBING ABBREVIATIONS (CONT.)

Table listing plumbing abbreviations from JT to WC, including terms like JOINT, KITCHEN EQUIPMENT MANUFACTURER, etc.

PLUMBING PIPING ABBREVIATIONS

Table listing plumbing piping abbreviations with symbols, including AV (ACID VENT PIPING), AW (ACID WASTE PIPING), etc.

PLUMBING SYMBOLS

Table listing plumbing symbols with descriptions, including PIPE TEE UP, PIPE TEE DOWN, PIPE ELBOW UP, etc.

ELECTRICAL REQUIREMENTS FOR PLUMBING EQUIPMENT

- 1. GENERAL REQUIREMENTS
A. PLUMBING CONTRACTOR SHALL PROVIDE MECHANICAL EQUIPMENT WITH VOLTAGES AND OTHER ELECTRICAL CHARACTERISTICS AS INDICATED ON THE DRAWINGS AND WITHIN THE SPECIFICATIONS.
B. ALL STARTERS, DISCONNECT SWITCHES, MOTOR CONTROL CENTERS, AND VARIABLE FREQUENCY DRIVES, FOR EQUIPMENT PROVIDED UNDER DIVISION 22 SHALL BE FURNISHED UNDER DIVISION 22 AND INSTALLED UNDER DIVISION 26. FACTORY MOUNTED STARTERS, DISCONNECTS SWITCHES, AND VARIABLE FREQUENCY DRIVES SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 22. PLUMBING CONTRACTOR SHALL PROVIDE STARTERS, DISCONNECT SWITCHES, MOTOR CONTROL CENTERS AND VARIABLE FREQUENCY DRIVES IN ACCORDANCE WITH DIVISION 26.
C. PLUMBING CONTRACTOR SHALL SUBMIT WIRING DIAGRAMS TO THE ARCHITECT/ENGINEER FOR APPROVAL AND PROVIDE APPROVED DIAGRAMS TO THE ELECTRICAL CONTRACTOR SO THAT THE ELECTRICAL WORK MAY BE PROPERLY ACCOMPLISHED.
D. PLUMBING CONTRACTOR SHALL FULLY COOPERATE WITH THE OTHER DIVISIONS AND TRADES ON THE PROJECT, AND THEIR MANUFACTURERS, IN PROMPTLY PROVIDING THE INFORMATION REQUIRED FOR PROPER COORDINATION OF WORK PROTECTION, CONTROL EQUIPMENT AND WIRING, AND THE OTHER CHARACTERISTICS OF THE EQUIPMENT.
E. IT SHALL BE THE RESPONSIBILITY OF THE DIVISION 23 AND DIVISION 26 CONTRACTORS TO CHECK FOR ADEQUACY OF SUPPLY WIRING, OVERCURRENT PROTECTION, PROPER VOLTAGE, PHASE ROTATION AND FINAL LOCATION OF EQUIPMENT PROVIDED PRIOR TO THE RUNNING OF ANY CONDUIT OR WIRING. COORDINATE WITH DIVISION 26 TO ASSURE PROPER ELECTRICAL SERVICE IS PROVIDED TO EQUIPMENT UNDER DIVISION 22.
F. EQUIPMENT CONNECTIONS SHALL BE MADE THROUGH CONDUIT OR RACEWAYS IN ACCORDANCE WITH DIVISION 26, WITH THE EXCEPTION THAT CONNECTIONS TO MOTORS SHALL BE MADE THROUGH LIQUID TIGHT FLEXIBLE METAL CONDUIT WITH EQUIPMENT GROUNDING CONDUCTOR.
2. POWER REQUIREMENTS
A. ALL POWER WIRING FOR MECHANICAL EQUIPMENT PROVIDED UNDER DIVISION 22 SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 26 TO THE POINT OF FINAL CONNECTION, EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE. ALL POWER WIRING TO THE POINT OF FINAL CONNECTION FOR EQUIPMENT PROVIDED UNDER DIVISION 22 SHALL BE ACCOMPLISHED UNDER DIVISION 26.
B. FINAL ELECTRICAL POWER CONNECTIONS TO ALL EQUIPMENT SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 26. IN GENERAL, THE POINT OF FINAL CONNECTION SHALL BE THE EQUIPMENT CONTROL PANEL PROVIDED BY DIVISION 22. WIRE LEADS OF ADEQUATE LENGTH TO ENSURE A PROPER CONNECTION AT THE FINAL LOCATION SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 26.
C. WIRING, OVERCURRENT PROTECTION DEVICES, VOLTAGE, PHASE, ROTATION AND FINAL LOCATION OF ALL EQUIPMENT PROVIDED UNDER DIVISION 22 SHALL BE COORDINATED WITH ALL SIMILAR DEVICES AND POWER WIRING FURNISHED AND INSTALLED UNDER DIVISION 26. COORDINATION SHALL BE ACCOMPLISHED PRIOR TO THE RUNNING OF ANY CONDUIT OR WIRING.
3. CONTROL REQUIREMENTS
A. ALL CONTROL WIRING (LINE VOLTAGE AND/OR LOW VOLTAGE) FOR MECHANICAL EQUIPMENT PROVIDED UNDER DIVISION 22 SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 22. WIRING FROM THE POWER SOURCE TO ALL CONTROL PANELS, DOC CONTROL PANELS, STARTERS, AND OTHER CONTROL EQUIPMENT REQUIRED FOR A COMPLETE AND OPERABLE CONTROL SYSTEM SERVING MECHANICAL EQUIPMENT PROVIDED UNDER DIVISION 22 SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 22.
B. ALL WIRING FROM CONTROL PANELS TO CONTROL DEVICES FOR MECHANICAL EQUIPMENT PROVIDED UNDER DIVISION 22 SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 22. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND DIVISION 26 OF THE SPECIFICATIONS. ALL CONTROL WIRING SHALL BE IN CONDUIT.
4. SPECIALTIES
A. EMERGENCY SHUT-DOWN SYSTEMS SHALL BE PROVIDED UNDER DIVISION 22, INCLUDING ALL CONDUIT WIRING BETWEEN VALVES, RELAY PANELS, PUSHBUTTONS, AND ANY OTHER PIECE OF EQUIPMENT REQUIRED FOR A COMPLETE AND OPERABLE CONTROL SYSTEM.
B. POWER WIRING FOR THE EMERGENCY SHUT-DOWN SYSTEMS SHALL BE PROVIDED UNDER DIVISION 22. THE POINT OF CONNECTION FOR THE ELECTRICAL CONTRACTOR SHALL BE THE RELAY PANELS PROVIDED BY THE PLUMBING CONTRACTOR.
C. ALL CONTROL WIRING FROM MEDICAL GAS PRESSURE-SENSING DEVICES TO MEDICAL GAS ALARM PANELS SHALL BE UNDER DIVISION 22. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING TO THE ALARM PANEL.

PROJECT GENERAL NOTES

- 1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
2. CONTRACT DOCUMENT DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
3. INSTALL ALL PLUMBING EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS AND APPLICABLE CODES AND REGULATIONS.
4. PROVIDE VIBRATION ISOLATION FOR ALL PLUMBING EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
5. PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS CONNECTED TO, AND WITHIN 50 FT OF ISOLATED EQUIPMENT (EXCEPT AT BASE ELBOW SUPPORTS AND ANCHOR POINTS) THROUGHOUT MECHANICAL EQUIPMENT ROOMS.
6. THE LOCATION OF EXISTING EQUIPMENT AND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PAY FOR AND REPAIR ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES UNLESS OTHERWISE INDICATED.
7. COORDINATE CONSTRUCTION OF ALL PLUMBING WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL, HVAC WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
8. MAINTAIN A MINIMUM OF 6" CLEARANCE TO THE UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
9. CEILING AREAS DIRECTLY BELOW HEATING EQUIPMENT MUST BE KEPT CLEAR OF ALL OTHER UTILITIES, INCLUDING FIRE PROTECTION COMPONENTS, TO ALLOW FOR UNIT ACCESS FOR SERVICE AND/OR REMOVAL. WHERE PIPING, CONDUIT, AND LINE ITEMS ARE SHOWN IN THIS AREA, IT IS THE ENGINEER'S INTENTION THAT THIS PIPING BE INSTALLED ABOVE THE EQUIPMENT AND THAT BRANCH VALVING, WHERE APPLICABLE, BE INSTALLED IN AN ACCESSIBLE LOCATION. PROVIDE NECESSARY OFFSETS, ETC., TO ACCOMPLISH THIS CLEARANCE REQUIREMENT.
10. ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS APPLIED.
11. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH THE STRAIGHT SECTION OF PIPE OR DUCT UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR PROPER ACCURACY.
12. TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE AABC STANDARDS.
13. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.
14. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTION TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL PIPING DIMENSIONS BEFORE FABRICATION.
15. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND DIVISION 26 OF THE SPECIFICATION.
16. CONCRETE HOUSEKEEPING PADS FOR PLUMBING EQUIPMENT SHALL BE SIZED AND LOCATED BY THE PLUMBING CONTRACTOR. MINIMUM CONCRETE PAD THICKNESS SHALL BE 6 INCHES. PAD SHALL EXTEND BEYOND THE EQUIPMENT A MINIMUM OF 3 INCHES ON EACH SIDE. CONCRETE HOUSEKEEPING PADS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO COORDINATE THE SIZE AND LOCATION OF CONCRETE HOUSEKEEPING PADS WITH THE GENERAL CONTRACTOR.
17. REINFORCEMENT, DETAILING, AND PLACEMENT OF CONCRETE SHALL CONFORM TO ASTM 915 AND ACI 318. CONCRETE SHALL CONFORM TO ASTM C94. CONCRETE WORK SHALL CONFORM TO ACI 318, PART ENTITLED "CONSTRUCTION REQUIREMENTS." COMPRESSIVE STRENGTH IN 28 DAYS SHALL BE 3,000 PSI. TOTAL AIR CONTENT OF EXTERIOR CONCRETE SHALL BE BETWEEN 6 AND 7 PERCENT BY VOLUME. SLUMP SHALL BE BETWEEN 3 AND 4IN. CONCRETE SHALL BE CURED FOR 7 DAYS AFTER PLACEMENT.
18. WHEN PLUMBING WORK IS SUBCONTRACTED, IT SHALL BE THE PLUMBING CONTRACTORS RESPONSIBILITY TO COORDINATE SUBCONTRACTORS AND THE ASSOCIATED CONTRACTS. WHEN DISCREPANCIES ARISE PERTAINING TO WHICH CONTRACTOR PROVIDED A PARTICULAR ITEM OF THE PLUMBING CONTRACT OR WHICH CONTRACTOR PROVIDES FINAL CONNECTIONS FOR A PARTICULAR ITEM OF THE PLUMBING CONTRACT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE PLUMBING CONTRACTOR, WHOSE DECISION SHALL BE FINAL.
19. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
20. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR PIPING AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR.
21. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILING, WHERE REQUIRED TO SERVICE VALVES AND OTHER CONCEALED PLUMBING EQUIPMENT. ACCESS PANELS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR FOR INSTALLATION.
22. ALL EQUIPMENT, PIPING, ETC. SHALL BE SUPPORTED AS DETAILED, SPECIFIED AND REQUIRED TO PROVIDE A VIBRATION-FREE INSTALLATION.
23. ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR JOISTS GIRDERS SHALL BE AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED. THE USE OF C-CLAMPS SHALL NOT BE PERMITTED.
24. MECHANICAL EQUIPMENT, AND PIPING SHALL NOT SUPPORTED FROM A METAL DECK.
25. LOCATIONS AND SIZES OF FLOOR, WALL AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
26. ALL OPENINGS IN FIRE AND/OR SMOKE RATED CONSTRUCTION DUE TO PIPING, CONDUIT, ETC. SHALL BE FIRE STOPPED WITH AN APPROVED LISTED AND LABELED FIRE STOPPING MATERIAL.
27. CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING EQUIPMENT AND UTILITIES BEFORE COMMENCING WORK.

PLUMBING PIPING GENERAL NOTES

- 1. ALL SANITARY PIPING BELOW SLAB SHALL BE A MINIMUM OF 4" O, UNLESS NOTED OR AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
2. ALL SANITARY AND STORM PIPING 2" AND SMALLER SHALL BE SLOPED AT A MINIMUM 1/4" PER FOOT, AND ALL SANITARY AND STORM PIPING 3" AND LARGER SHALL BE SLOPED AT A MINIMUM OF 1/8" PER FOOT, UNLESS OTHERWISE NOTED OR AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
3. ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
4. PROVIDE HOSE END DRAIN VALVES AT THE BOTTOM OF ALL RISERS AND LOW POINTS.
5. UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO THE UNDERSIDE OF THE STRUCTURE OR SLAB, WITH SPACE FOR INSULATION IF REQUIRED.
6. INSTALL PIPING SO ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
7. ALL VALVES SHALL BE INSTALLED SO THAT THE VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON THE EQUIPMENT SIDE OF THE VALVE IS REMOVED.
8. ALL BALANCING VALVES AND BUTTERFLY VALVES SHALL BE PROVIDED WITH POSITION INDICATORS AND THE MAXIMUM ADJUSTABLE STOPS (MEMORY STOPS).
9. PROVIDE CHAINWHEEL OPERATORS FOR ALL VALVES IN EQUIPMENT ROOMS MOUNTED GREATER THAN 7'-0" ABOVE FLOOR LEVEL; CHAIN SHALL EXTEND TO 4" ABOVE FLOOR LEVEL.
10. ALL VALVES (EXCEPT CONTROL VALVES) AND STRAINERS SHALL BE THE FULL SIZE OF THE PIPE BEFORE REDUCING IN SIZE TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS.
11. PROVIDE A LINE SIZE STRAINER UPSTREAM OF EACH AUTOMATIC VALVE. PROVIDE A SHUTOFF VALVE ON EACH SIDE OF A STRAINER.
12. UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSSES, AND LONG PIPING RUNS (100 FT OR MORE) TO PERMIT DISASSEMBLY FOR ALTERNATION AND REPAIRS.
13. INSTALL ALL PIPING WITHOUT FORGING OR SPRINGING.
14. TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE AABC STANDARDS.
15. PLUMBING CONTRACTOR SHALL ROUGH-IN AND CONNECT ALL EQUIPMENT REQUIRING GAS, WATER, WASTE, VENT, AND/OR COMPRESSED AIR WHETHER OR NOT EQUIPMENT IS FURNISHED UNDER THIS CONTRACT. ALSO, PLUMBING CONTRACTOR TO FURNISH AND INSTALL ALL NECESSARY PIPE, FITTINGS, VALVES, TRAPS, ETC., REQUIRED FOR A COMPLETE INSTALLATION, LEAVING SAME READY FOR SERVICE.
16. ALL CEILING AREAS THROUGHOUT THE BUILDING AS A PART OF THIS PROJECT ARE TO BE CONSIDERED PLENUM AREAS AND THEREFORE THE CONTRACTOR MUST BE AWARE OF THE ACCEPTABLE PIPING MATERIAL TO BE USED. REFERENCE MUST BE MADE TO THE PLUMBING SPECIFICATIONS FOR ADDITIONAL INFORMATION.

MYERSVILLE COMMUNITY LIBRARY

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FREDERICK COUNTY, MARYLAND
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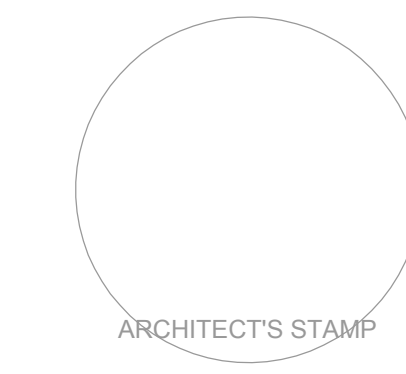
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Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No:45511. Expiration Date: 06/03/2020



SHEET INFORMATION

KEY PLAN

REVISIONS

REV. #:	DESCRIPTION:	DATE:

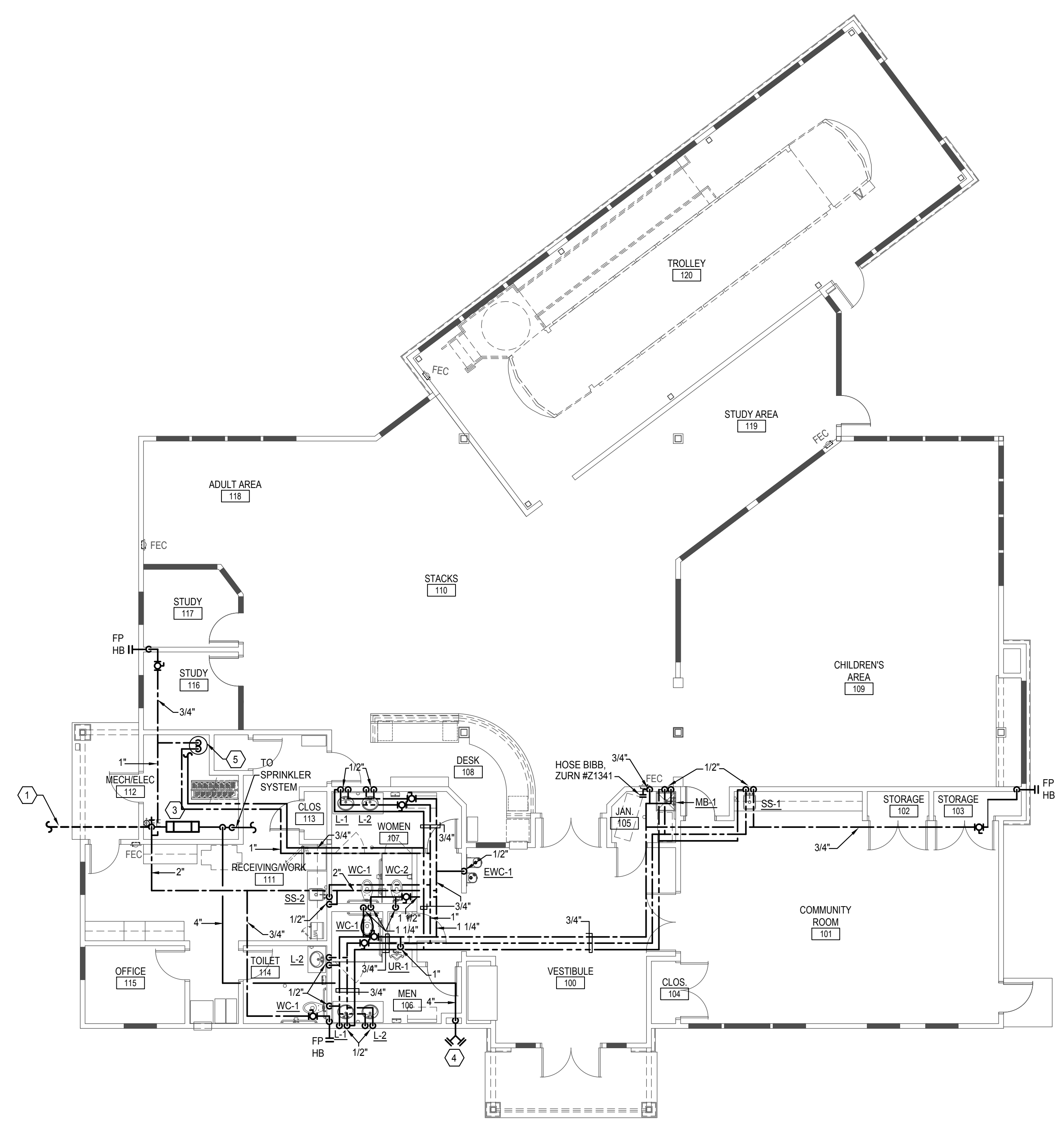
PROJECT STATUS

JOB NUMBER: 16-1043
ISSUE DATE: 10 APRIL 2018
SCALE: AS INDICATED
SHEET TITLE:

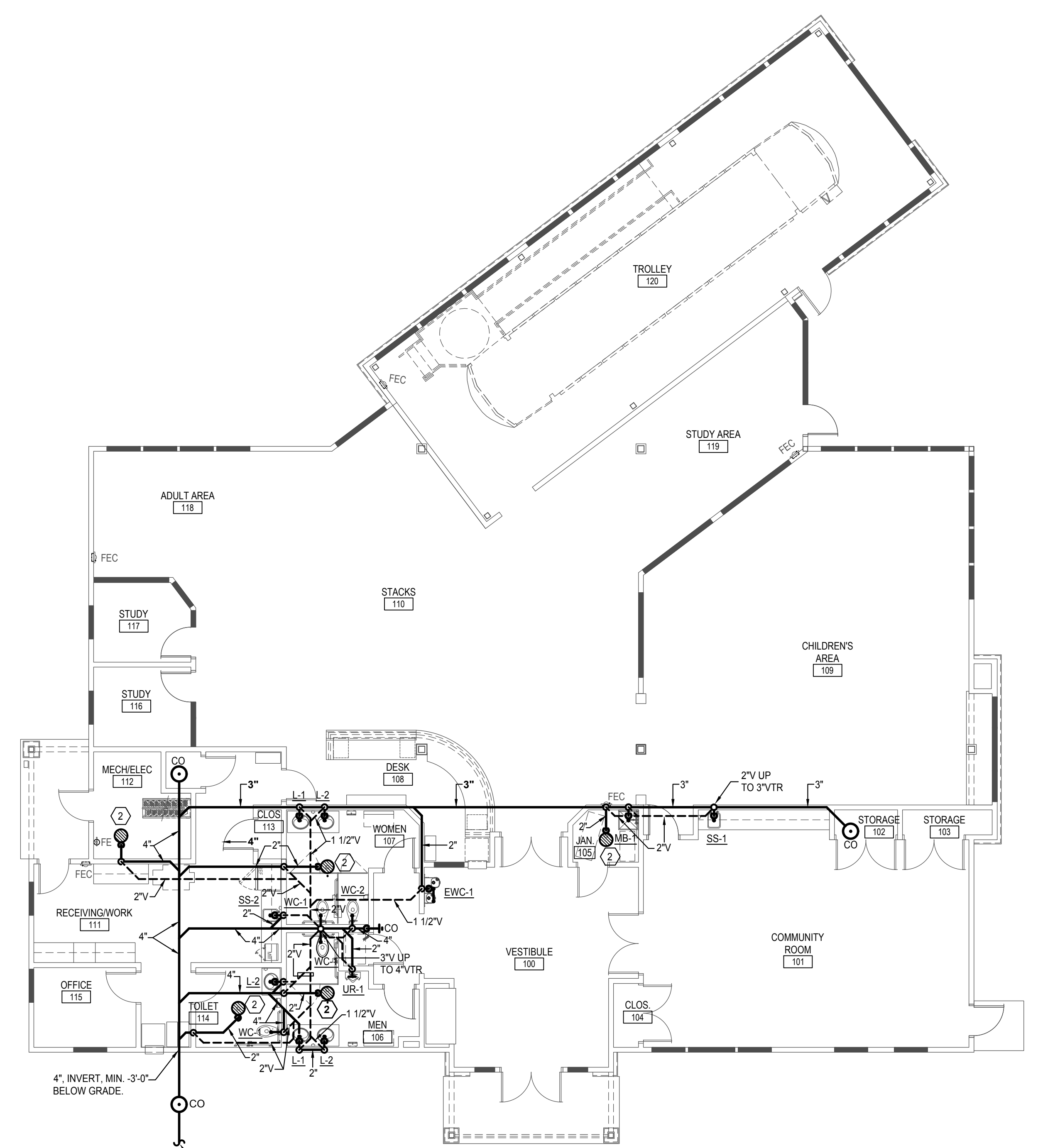
FLOOR PLANS - PLUMBING

SHEET NUMBER:

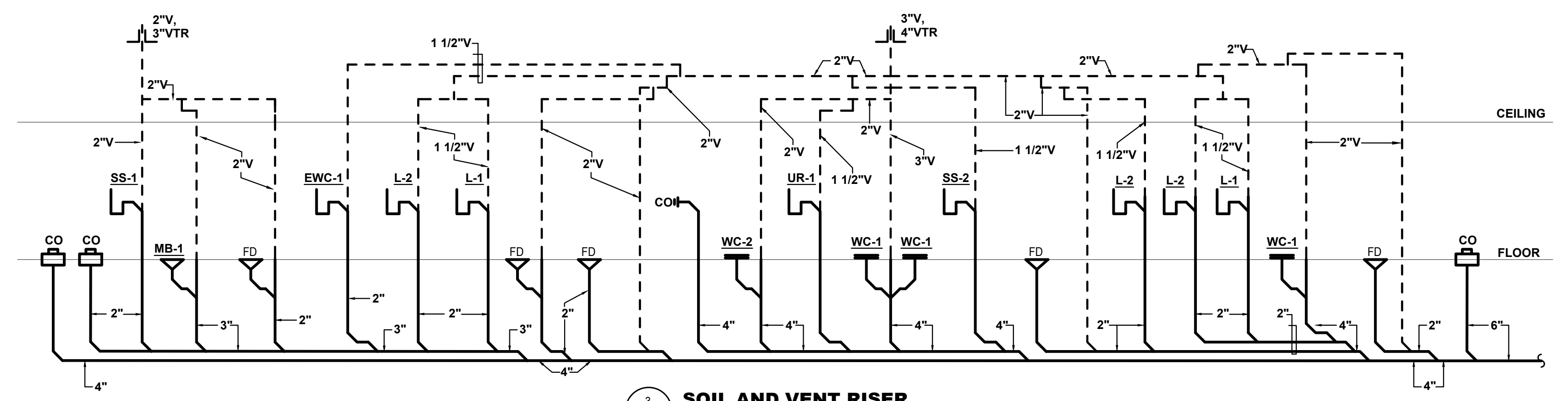
P201



1 FLOOR PLAN - DOMESTIC WATER
P201 1/8" = 1'-0"



2 FLOOR PLAN - SOIL AND VENT
P201 1/8" = 1'-0"



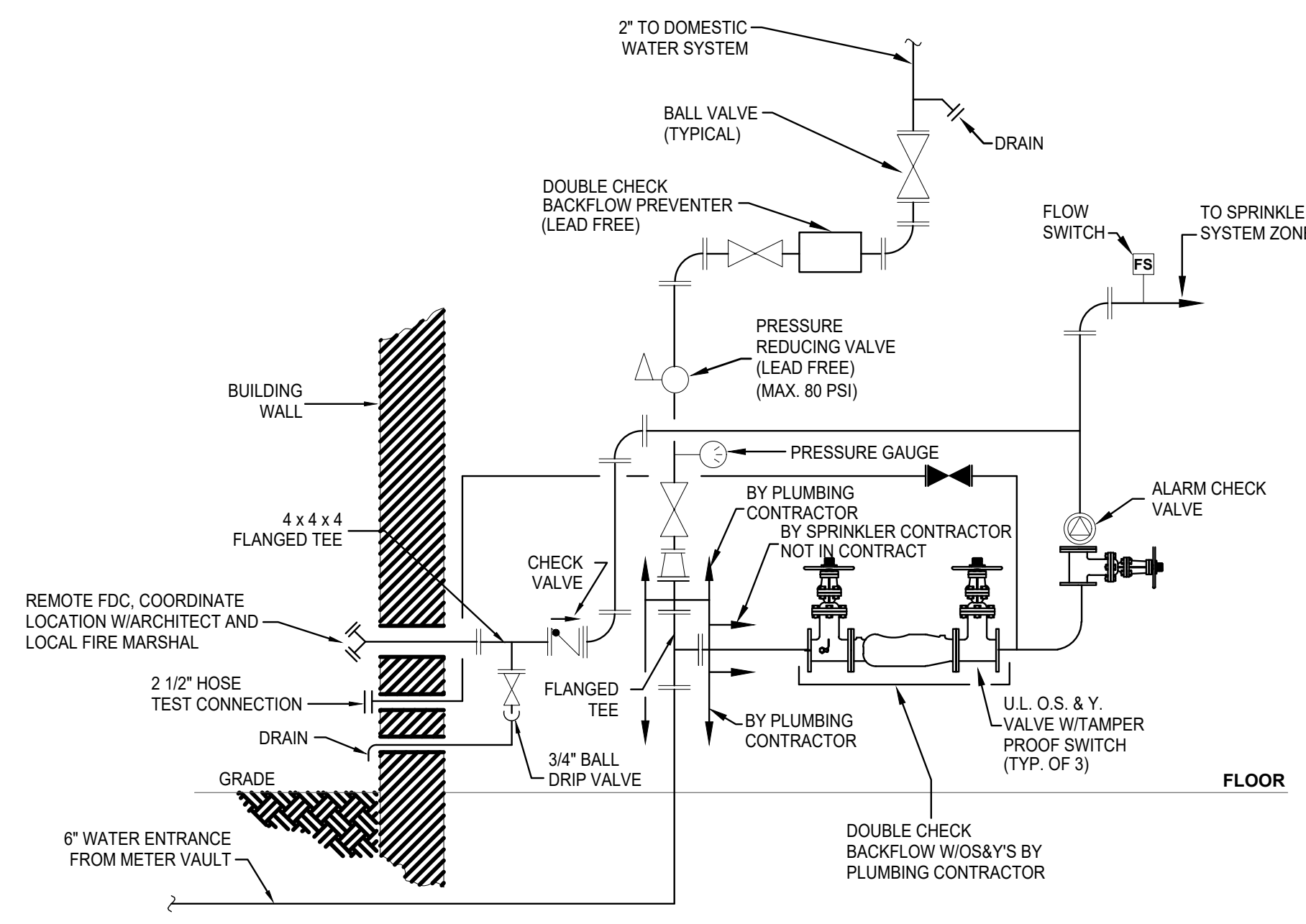
3 SOIL AND VENT RISER
P201 NO SCALE

NUMBERED NOTES:

- 6" SPRINKLER WATER ENTRANCE. SEE DETAIL #1/P701.
- FLOOR DRAIN, PROVIDE TRAP PRIMER. SEE DETAIL #3/P701.
- SPRINKLER DOUBLE CHECK BACKFLOW PREVENTER. MAINTAIN MIN. 3'-0" CLEARANCE IN FRONT.
- REMOTE FIRE DEPT. CONNECTION. COORDINATE FINAL LOCATION WITH LOCAL FIRE MARSHAL.
- ELECTRIC WATER HEATER (DWH-1). SEE DETAIL #2/P701. 1" HW, CW AND 3/4" HW RECIRC.

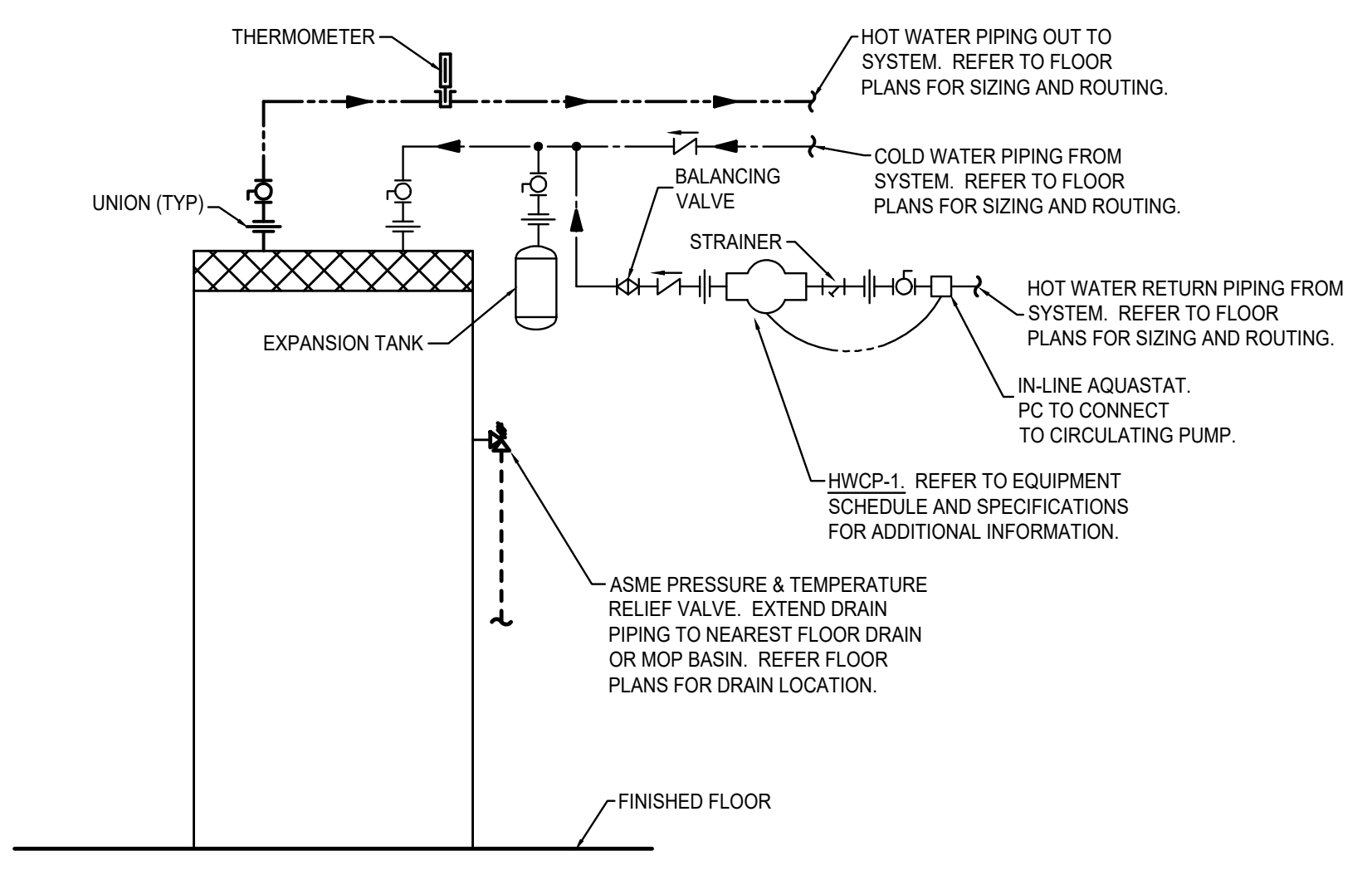
GENERAL NOTES:

- CONTRACTOR TO PROVIDE ACCESS PANELS FOR VALVES ABOVE DRYWALL CEILINGS.



1 SPRINKLER/WATER ENTRANCE (WET)
P701 NO SCALE

NOTE 1. SEE STANDARD FREDERICK COUNTY DRAWINGS FOR DIMENSIONS & ROUGH-IN LOCATIONS.
NOTE 2. PROVIDE LEAD FREE PIPING, FITTINGS, VALVES ETC. INTENDED TO DISPENSE WATER FOR HUMAN CONSUMPTION.
SPRINKLER DESIGN CRITERIA:
GPM: 118
STATIC: 80 PSI
RESIDUAL: 7 PSI
TEST DATE: 10/18/11
HYDRANT LOCATION: HARP PLACE



2 ELECTRIC WATER HEATER PIPING SCHEMATIC (WITH CIRCULATING PUMP)
P701 NO SCALE

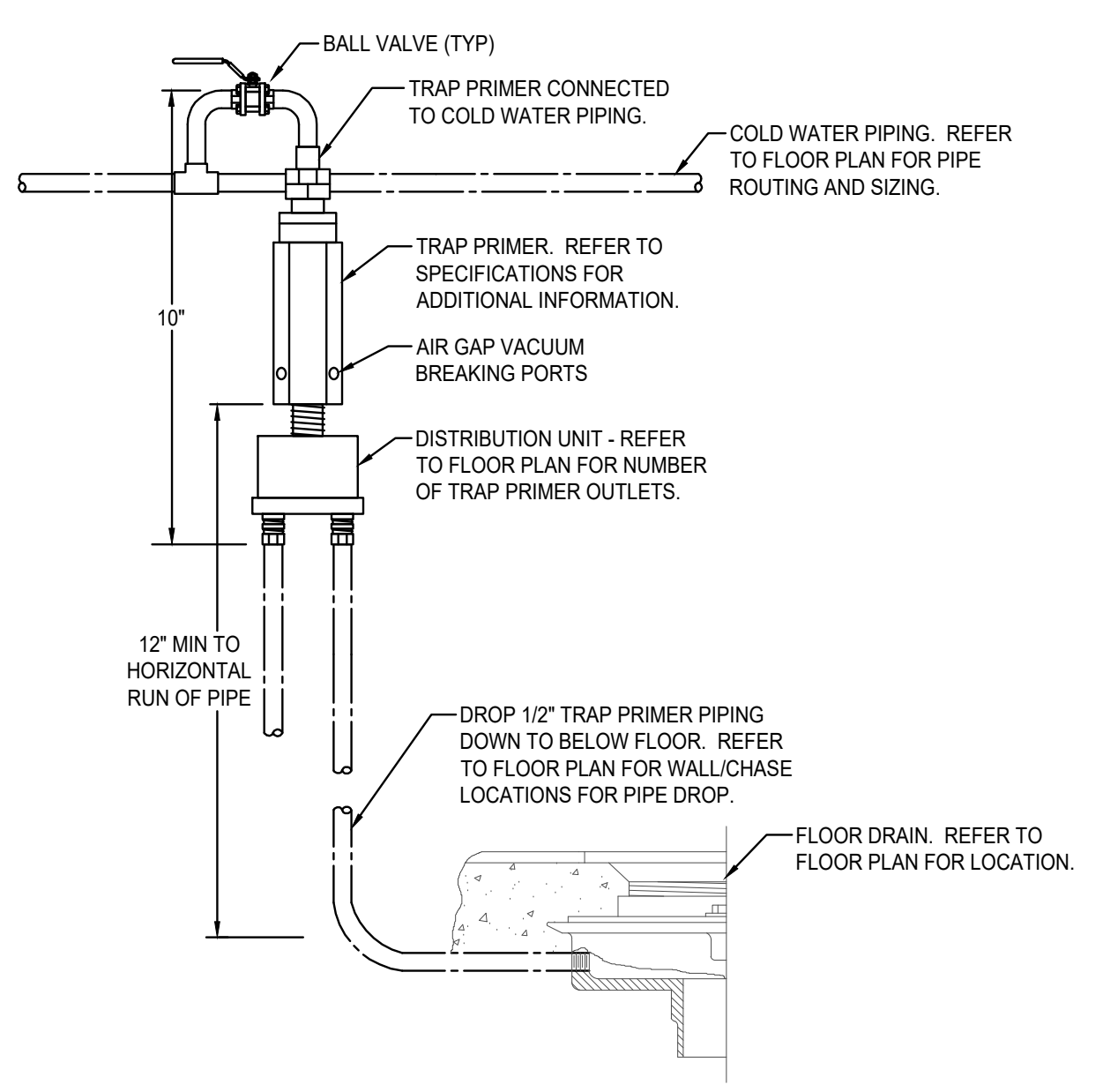
NOTE: PROVIDE LEAD FREE PIPING, FITTINGS, VALVES ETC.

PLUMBING FIXTURE SCHEDULE					
ID.#	PLUMBING FIXTURE DESCRIPTION	WASTE & VENT CONNECTION SIZES	WATER SUPPLY CONNECTION SIZES	LOCATION	COMMENTS
EWC-1	WALL MOUNTED DUAL HEIGHT WATER COOLER W/BOTTLE FILLER - STANDARD & ADA HEIGHT	1 1/4" WASTE & VENT	1/2" CW	VESTIBULE	NOTE 1
FD-1	FLAT FINISHED TOP FOR FINISHED AREAS	2" WASTE CONNECTION	1/2" CW	SEE FLOOR PLAN	NOTE 1, 2
L-1	INTEGRAL COUNTER BOWL WITH METERING FAUCET - STD. HEIGHT	1 1/2" WASTE & VENT	1/2" HW & CW	TOILET ROOMS	NOTE 1
L-2	INTEGRAL COUNTER BOWL WITH METERING FAUCET - ADA HEIGHT	1 1/2" WASTE & VENT	1/2" HW & CW	TOILET ROOMS	NOTE 1
SS-1	UNDER COUNTER MOUNT STAINLESS STEEL SINGLE BOWL WITH MANUAL FAUCET - ADA HEIGHT	1 1/2" WASTE & VENT	1/2" HW & CW	COMMUNITY ROOM	NOTE 1
SS-2	UNDER COUNTER MOUNT STAINLESS STEEL SINGLE BOWL WITH MANUAL FAUCET - ADA HEIGHT	1 1/2" WASTE & VENT	1/2" HW & CW	RECEIVING	NOTE 1
WC-1	FLOOR MOUNTED WATER CLOSET WITH MANUAL FLUSH VALVE - ADA HEIGHT	4" SOIL, 2" VENT	1 1/4" CW	TOILET ROOMS	NOTE 1
WC-2	FLOOR MOUNTED WATER CLOSET WITH MANUAL FLUSH VALVE - STANDARD HEIGHT	4" SOIL, 2" VENT	1 1/4" CW	TOILET ROOMS	NOTE 1
MB-1	FLOOR MOUNTED MOP BASIN	3" WASTE & 2" VENT	1/2" HW & CW	JANITOR 105	NOTE 1
UR-1	WALL MOUNTED URINAL WITH MANUAL FLUSH VALVE - ADA HEIGHT	2" WASTE & 2" VENT	1" CW	TOILET ROOM	NOTE 1

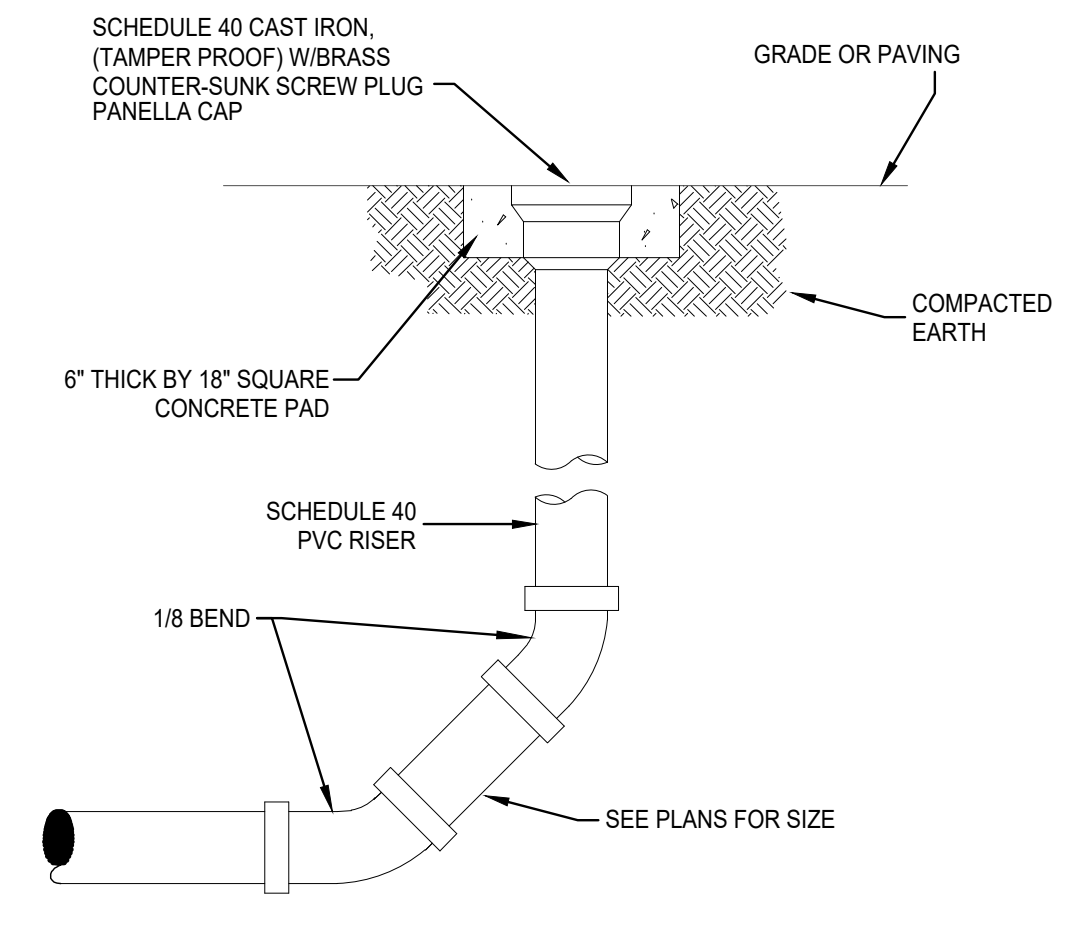
NOTES:
1. REFER TO SPECIFICATIONS FOR MANUFACTURER INFORMATION, TRIM INFORMATION, ACCESSORIES, AND ADDITIONAL INFORMATION.
2. PROVIDE TRAP PRIMER.

PUMP SCHEDULE									
ID#	SYSTEM	GPM	FT. HD.	HP	RPM	VOLTAGE	REMARKS	MANUF.	MODEL
HWCP-1	DOMESTIC RECIRC. PUMP 140"	8	15	FRAC	1.50	120V/1Ø	ALL BRONZE - "IN-LINE"	B & G	PR SERIES

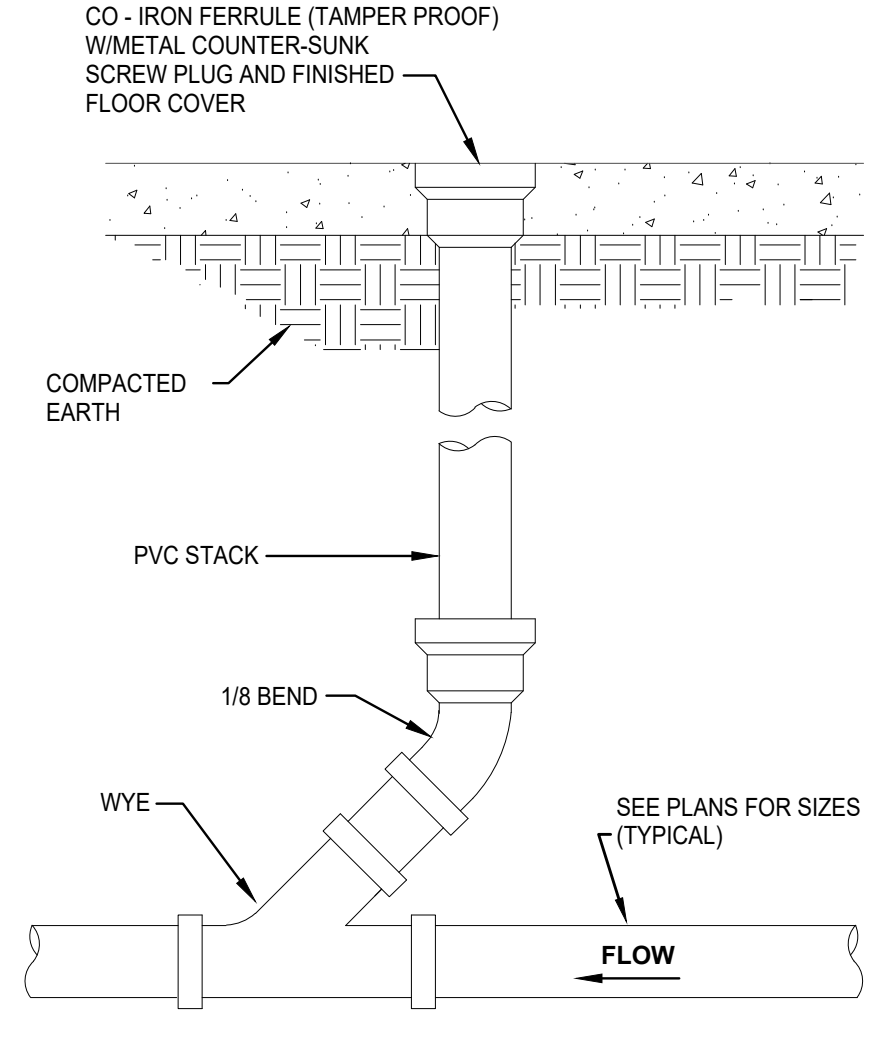
ELECTRIC WATER HEATER SCHEDULE							
MARK	GALLONS	GPH @ 90°RISE	KW	VOLTAGE	REMARKS	MANUF.	MODEL
DWH-1	30	21	4.5	240V/1Ø	U.L. ASHRAE 10-80 WIDRAIN PAN	AO SMITH	ENT-30



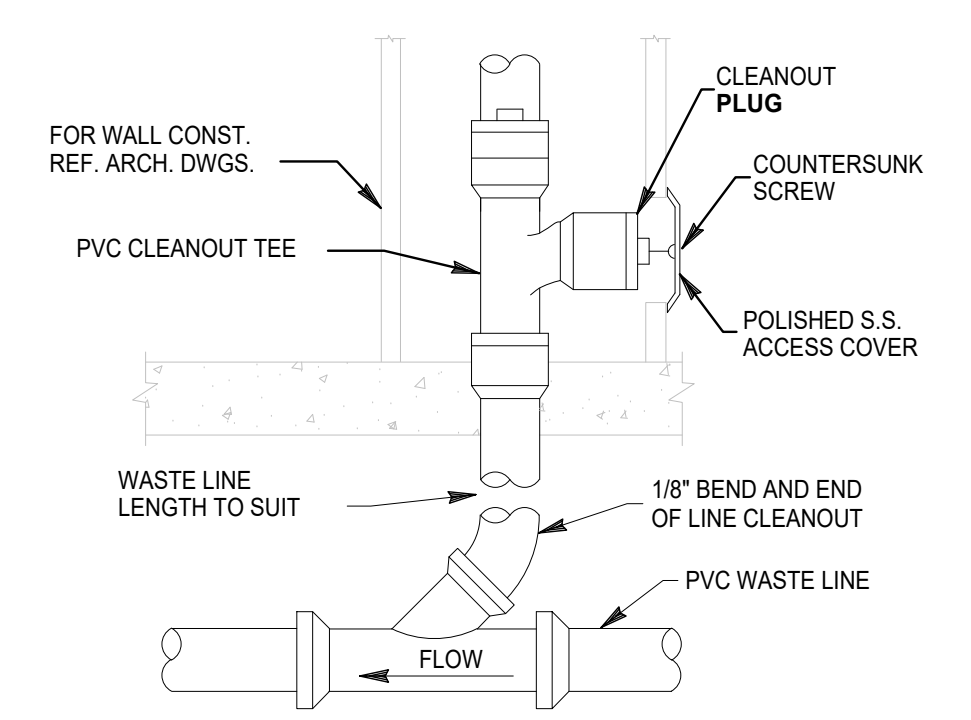
3 TRAP PRIMER PIPING SCHEMATIC
P701 NO SCALE



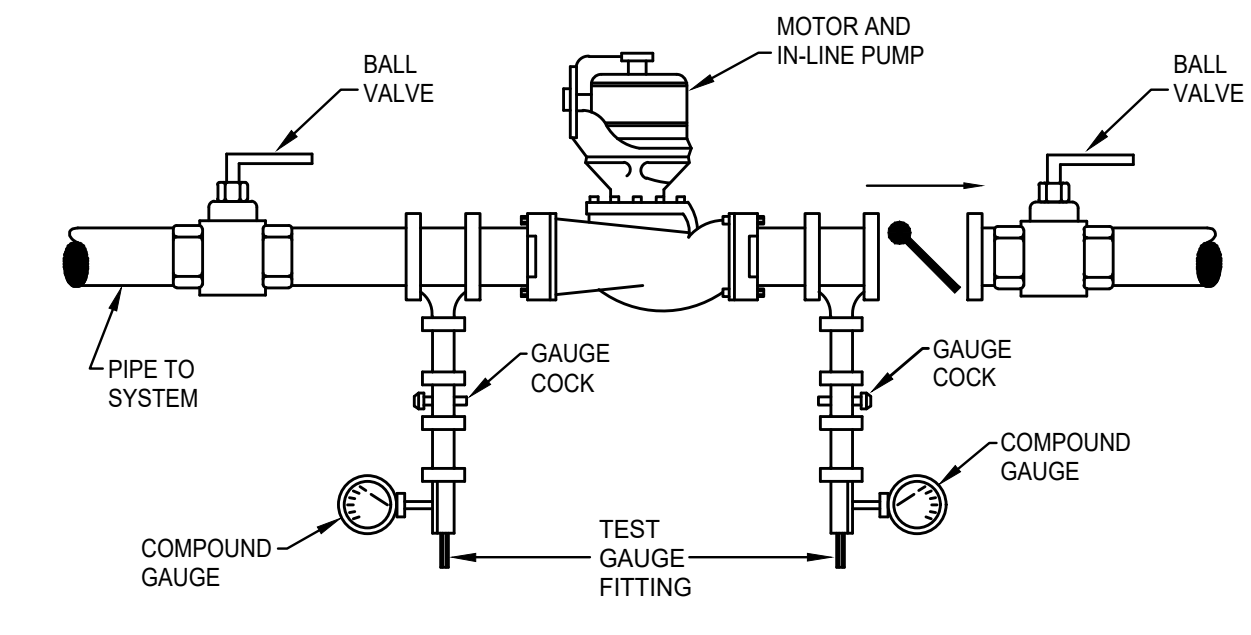
5 EXTERIOR CLEANOUT
P701 NO SCALE



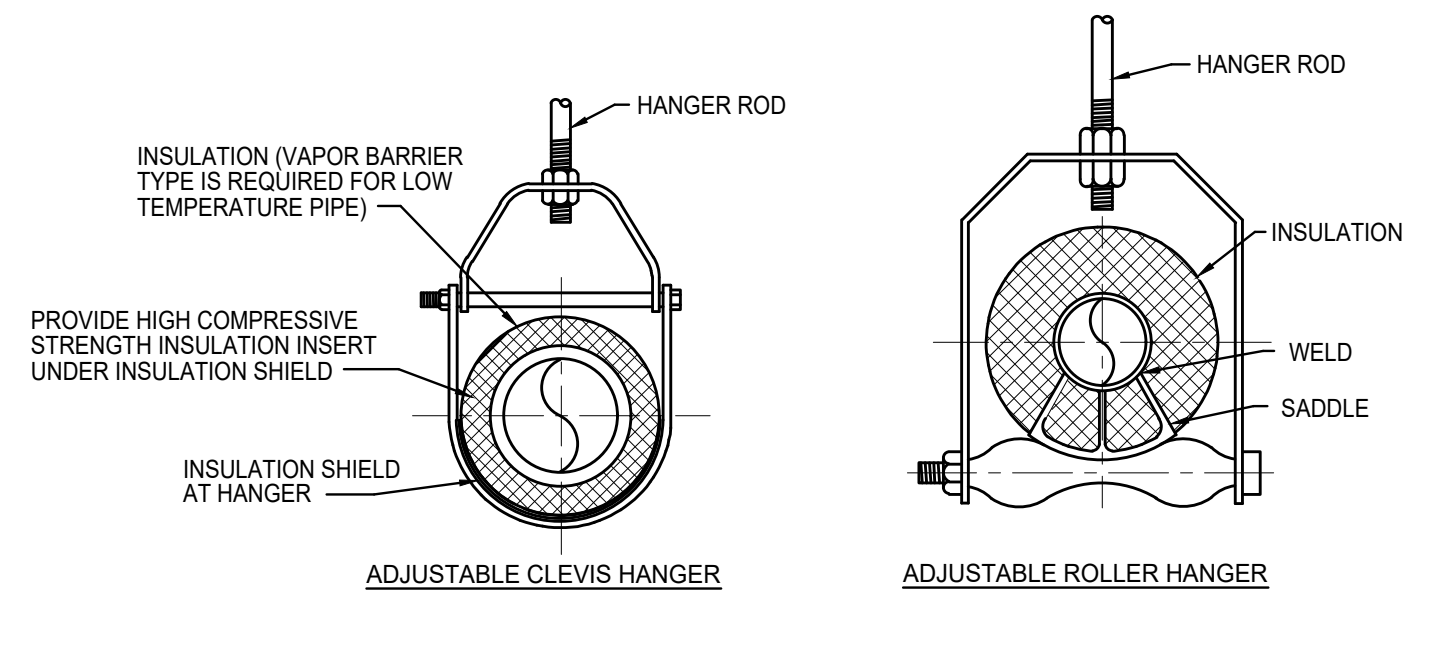
6 FLOOR CLEANOUT DETAIL
P701 NO SCALE



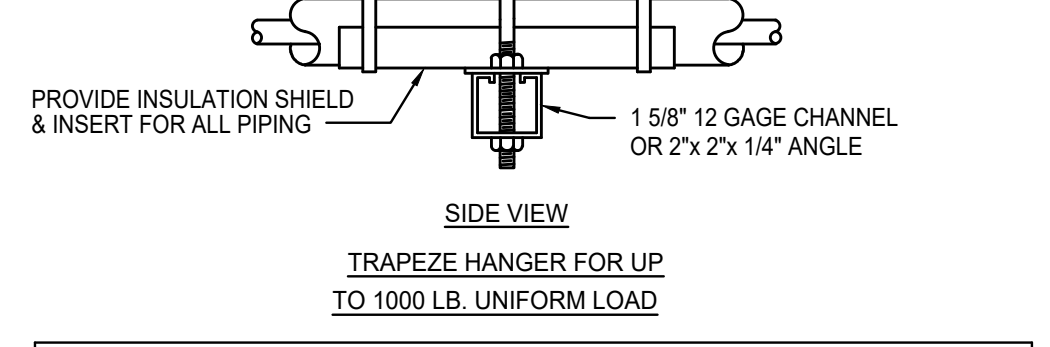
8 WALL CLEANOUT
P701 NO SCALE



4 IN-LINE PUMP CONNECTIONS
P701 NO SCALE (HWCP-1)



7 PIPE HANGERS
P701 NO SCALE



MAXIMUM PIPE/TUBING SUPPORT SPACING, FEET												
NOM. SIZE	THRU 3/4"	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10
PIPE	- FT	□	□	□	□	□	□	□	□	□	□	□
TUBING	5 FT	6	8	8	8	10	12	13	14	16	16	-

NOTE:
FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

PROJECT INFORMATION

MYERSVILLE COMMUNITY LIBRARY

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**8 HARP PLACE
MYERSVILLE, MD 21773**

PROJECT OWNER
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MARYLAND
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WORKS**

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Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No: 45511. Expiration Date: 06/03/2020

SHEET INFORMATION

KEY PLAN

REVISIONS		
REV. #:	DESCRIPTION:	DATE:

PROJECT STATUS

JOB NUMBER: **16-1043**
ISSUE DATE: **10 APRIL 2018**
SCALE: **AS INDICATED**
SHEET TITLE:

PLUMBING DETAILS AND SCHEDULES

SHEET NUMBER:

01

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RECEPTACLES

- SINGLE 125V-20A RECEPTACLE
- DUPLEX 125V-20A RECEPTACLE
- DUPLEX RECEPTACLE GROUND FAULT INTERRUPTER TYPE
- DUPLEX RECEPTACLE GROUND FAULT INTERRUPTER TYPE, INSTALL IN WEATHERPROOF HOUSING
- DOUBLE DUPLEX RECEPTACLE
- RECEPTACLE ELECTRIC WATER COOLER
- TAMPERPROOF RECEPTACLE
- SPECIAL RECEPTACLE - COORDINATE EXACT TYPE WITH EQUIPMENT AT SITE
- FLUSH FLOOR BOX WITH DUPLEX RECEPTACLE & TELEDATA OUTLET AND COVER PLATE
- INDICATES MOUNT DEVICE ABOVE COUNTER TOP
- TIME CLOCK
- JUNCTION BOX
- JUNCTION BOX - CEILING
- HARDWIRED CONNECTION
- NON-FUSIBLE SAFETY SWITCH
- FUSIBLE SAFETY SWITCH
- MOTOR
- MOTOR STARTING SWITCH
- HAND DRYER
- PAPER TOWEL DISPENSER

TELECOMMUNICATIONS

-

LIGHTING

- LIGHTING FIXTURE - SEE FIXTURE SCHEDULE FOR MORE INFORMATION
- NORMAL/EMERGENCY LIGHTING FIXTURE - SEE FIXTURE SCHEDULE FOR MORE INFORMATION
- DOWNLIGHT
- LIGHTING FIXTURE ON NORMAL/EMERGENCY
- WALL WASHER
- WALL MOUNTED LIGHT FIXTURE
- CHANDELIER
- EXIT SIGN - DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS
- SINGLE POLE SWITCH
- LOW VOLTAGE SWITCH
- LOW VOLTAGE DIMMER SWITCH
- CEILING MOUNTED OCCUPANCY SENSOR
- WALL MOUNTED OCCUPANCY SENSOR
- CEILING MOUNTED PHOTSENSOR
- LIGHTING CONTACTOR
- BOLLARD
- POLE MOUNTED SITE LIGHTING FIXTURE - NUMBER OF FIXTURES PER POLE AS INDICATED ON DRAWINGS
- POLE TOP MOUNTED SITE LIGHTING FIXTURE
- SMALL CASE LETTERS REPRESENTS LAMP(S) / SWITCHES, WHEN USED WITH AN OCCUPANCY SENSOR THIS INDICATES SENSOR WITH MANUAL OVERRIDE SWITCH

SECURITY & DOOR CONTROL

- SECURITY CAMERA, BY OWNER CONTRACTOR TO PROVIDE BACKBOX AND CONDUIT TO 18" ABOVE FINISHED CEILING.
- CARD READER, BY OWNER CONTRACTOR TO PROVIDE BACKBOX AND CONDUIT TO 18" ABOVE FINISHED CEILING.
- ELECTRIC STRIKE

AUDIO/VISUAL

- VOLUME CONTROL
- SOUND SYSTEM SPEAKER CEILING MOUNTED

MISCELLANEOUS

- BRANCH CIRCUIT WIRING CONCEALED IN WALLS OR ABOVE CEILING
- BRANCH CIRCUIT WIRING - #10 AWG
- HOME RUN BACK TO PANEL
- CONDUIT TURNED DOWN
- CONDUIT TURNED UP
- LOW VOLTAGE WIRING AND CONDUIT
- INDICATES CONTINUATION OF LINE

FIRE ALARM - N.I.C.

- FIRE ALARM CONTROL PANEL
- FIRE ALARM ANNUNCIATOR PANEL
- ZONE ADDRESSABLE MODULE
- CONTROL MODULE RELAY
- FIRE ALARM PULL STATION
- FIRE ALARM STROBE - WALL MOUNTED
- FIRE ALARM AUDIBLE/STROBE - WM
- FIRE ALARM HORN/STROBE - WM
- FIRE ALARM SPEAKER/STROBE - WM
- FIRE ALARM AUDIBLE - CEILING MOUNTED
- FIRE ALARM AUDIBLE AND VISIBLE - CM
- FIRE ALARM SPEAKER AND VISIBLE - CM
- FIRE ALARM STROBE - CM
- DUCT DETECTOR - PROVIDED BY EC, INSTALLED BY MC AND CONNECTED BY EC
- FLOW SWITCH - PROVIDED BY OTHERS, AND CONNECTED BY EC
- TAMPER SWITCH - PROVIDED BY OTHERS, AND CONNECTED BY EC
- REMOTE INDICATOR / TEST STATION
- HVAC SHUTDOWN PUSH BUTTON

DENOTATIONS & ABBREVIATIONS

- ABOVE FINISHED FLOOR
- CEILING MOUNTED
- CLOSED CIRCUIT TELEVISION
- DOUBLE DEVICE
- DOOR OPEN
- EMERGENCY
- ELECTRICAL CONTRACTOR
- ELECTRIC WATER COOLER
- FIRE ALARM
- FLUSH FLOOR MOUNTED
- GROUND FAULT INTERRUPTER
- GENERAL CONTRACTOR
- LOW VOLTAGE
- MOTOR
- MECHANICAL CONTRACTOR
- NON-FUSED SAFETY SWITCH
- PLUMBING CONTRACTOR
- REFRIGERATOR
- SOUND SYSTEM
- SECURITY SYSTEM
- TAMPER PROOF
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- WALL MOUNTED
- WEATHERPROOF

GENERAL PROJECT NOTES:

- G1. UNLESS OTHERWISE NOTED, PROVIDE ALL EQUIPMENT SHOWN ON THE PLANS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SYMBOLS SHOWN ON THE PLANS WITH THE SYMBOL LIST. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE INTENT OF ANY SYMBOL THAT IS SHOWN ON THE PLANS AND NOT INDICATED ON THE SYMBOL LIST WITH ELECTRICAL ENGINEER.
- G2. COORDINATE THE FINAL LOCATIONS OF ALL LIGHT FIXTURES WITH THE ARCHITECT'S REFLECTED CEILING PLANS. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO INSTALLATION.
- G3. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE CONSTRUCTION AREA, THREE (3) WORKING DAYS NOTICE BEFORE COMMENCE DIGGING. NOTIFY THE LOCAL OR STATE AUTHORITY HAVING JURISDICTION AND WAIT THE REQUIRED TIME BEFORE COMMENCING TO DIG.
- G4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE PROFESSIONAL IF A SYMBOL IS USED ON THE PROJECT BUT DOES NOT SHOW IN THE SYMBOL LIST PRIOR TO BID.
- G5. THE CONTRACTOR SHALL COORDINATE CONDUIT RUNS, CABLE TRAY, LIGHTING FIXTURES AND OTHER EQUIPMENT LOCATIONS WITH THE OTHER TRADE CONTRACTORS TO AVOID CONFLICTS.

SHEET INFORMATION

KEY PLAN

REVISIONS

REV. #:	DESCRIPTION:	DATE:
-	-	-

PROJECT STATUS

JOB NUMBER: 16-1043
 ISSUE DATE: 10 APRIL 2018
 SCALE:
 SHEET TITLE: AS INDICATED

SYMBOLS, ABBREVIATIONS, AND NOTES

SHEET NUMBER:

E001

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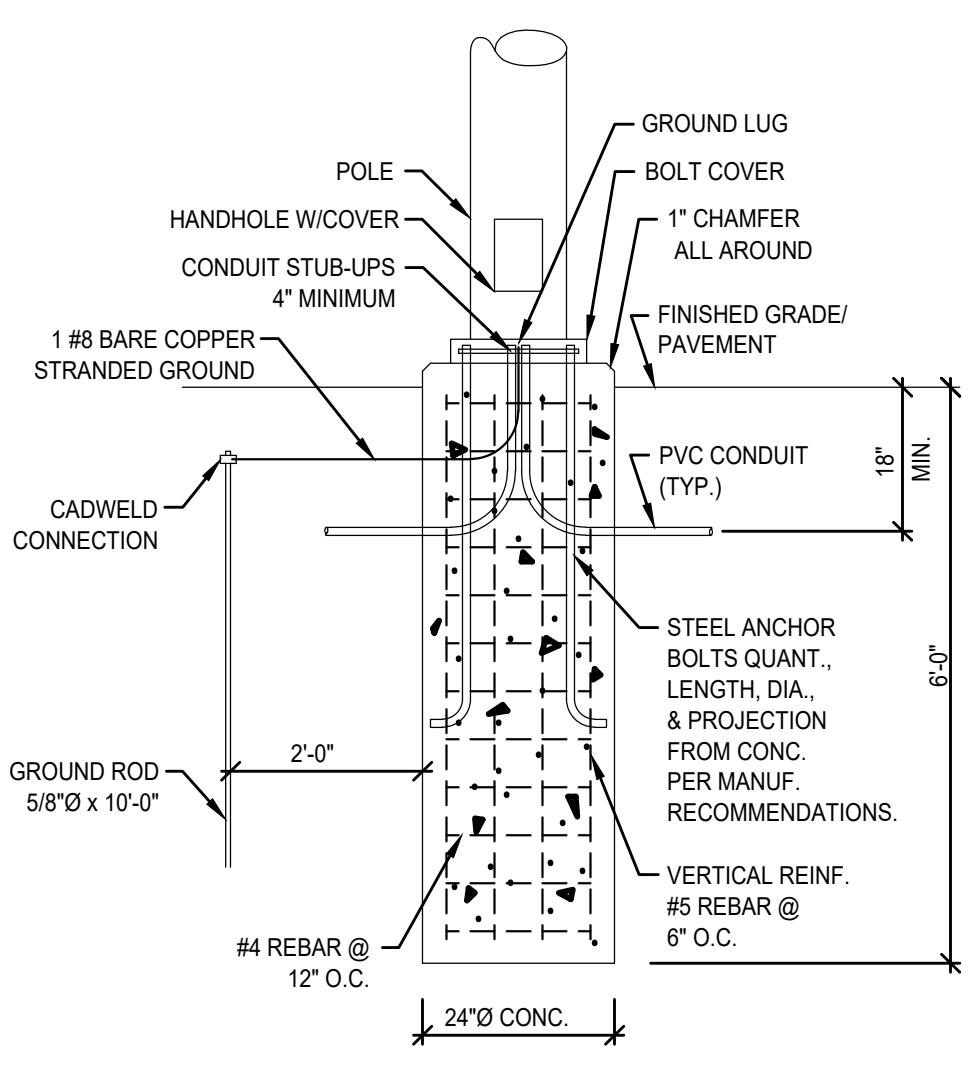
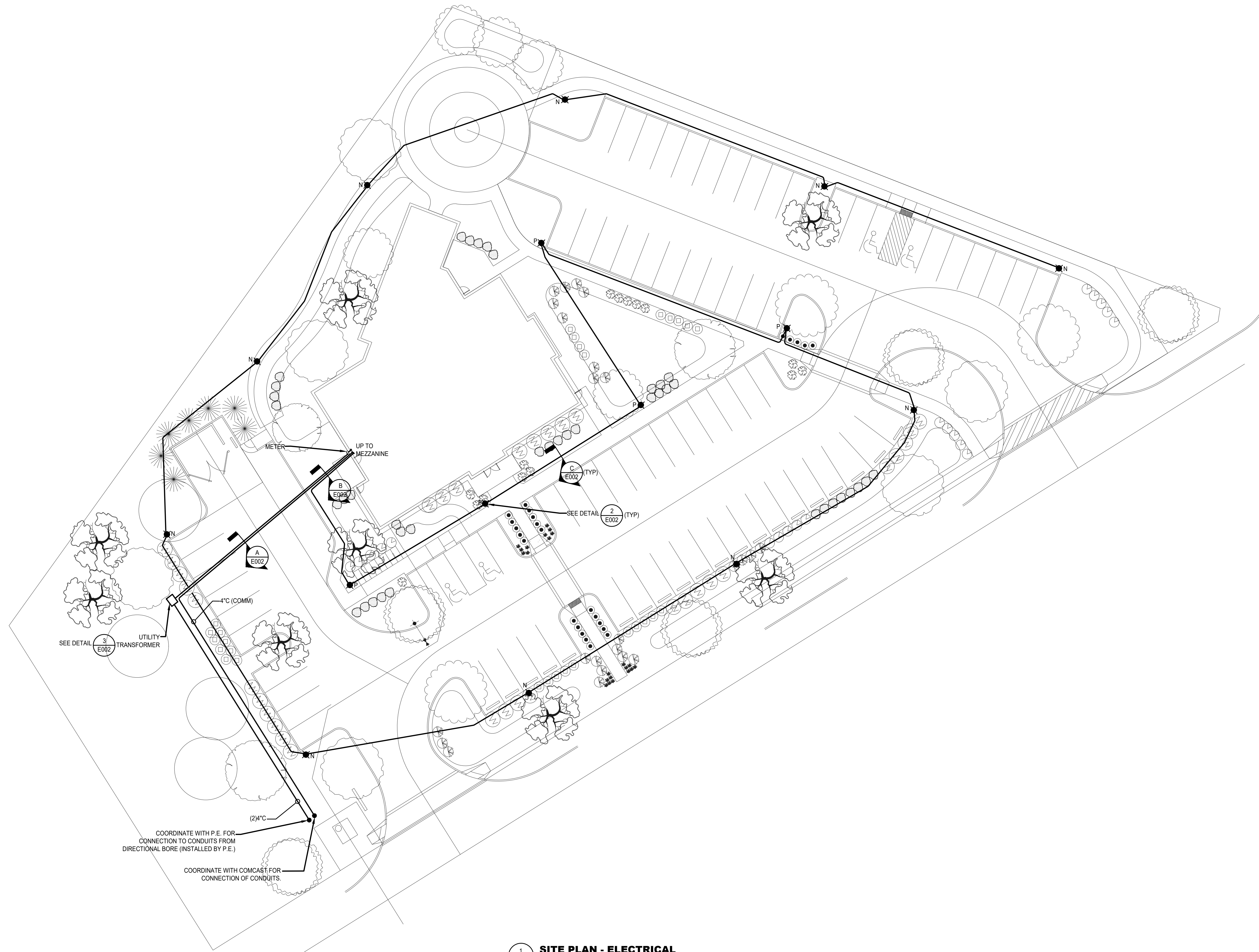
SHEET INFORMATION
KEY PLAN

REVISIONS		
REV. #:	DESCRIPTION:	DATE:

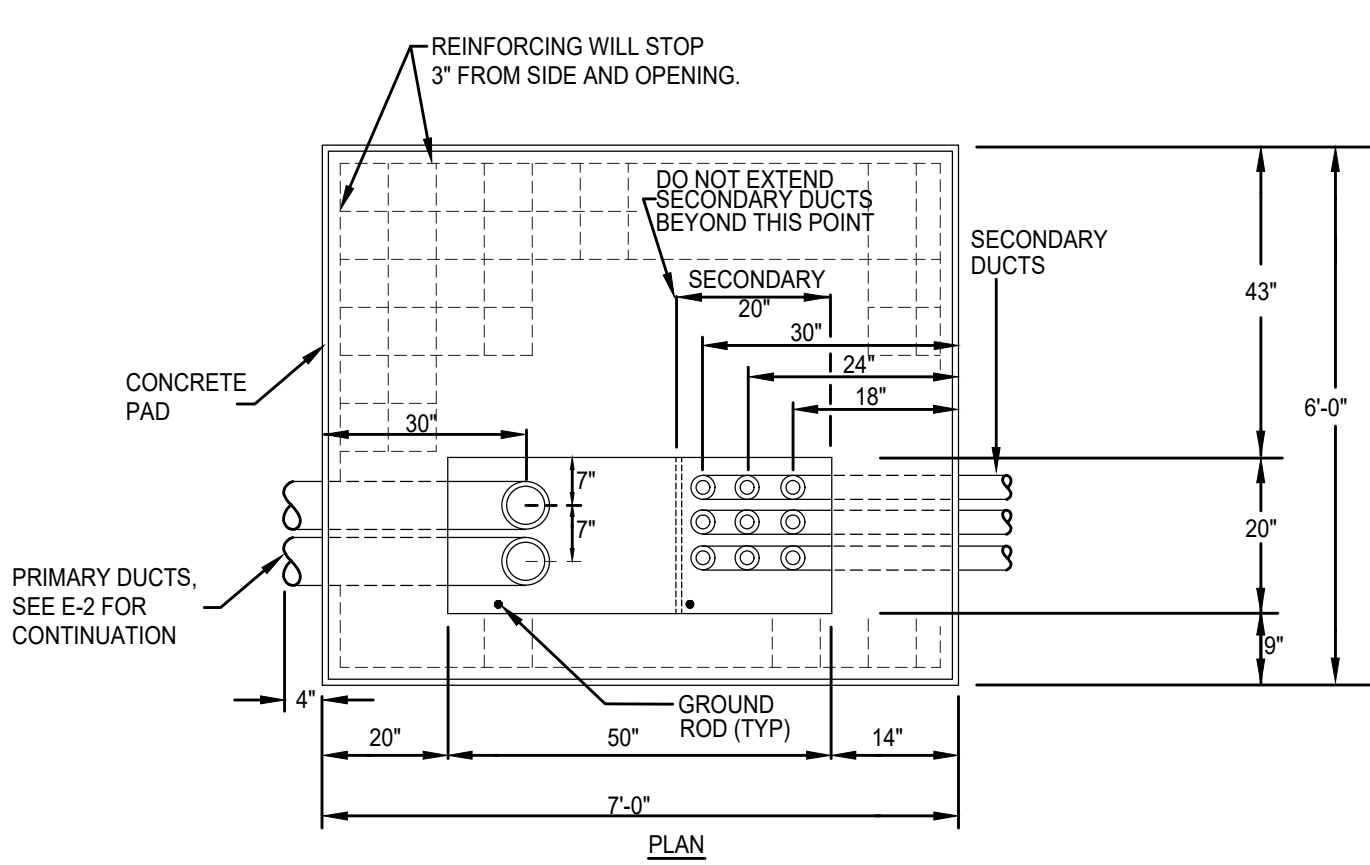
PROJECT STATUS

JOB NUMBER: **16-1043**
ISSUE DATE: **10 APRIL 2018**
SCALE: **AS INDICATED**
SHEET TITLE: **SITE PLAN - ELECTRICAL**

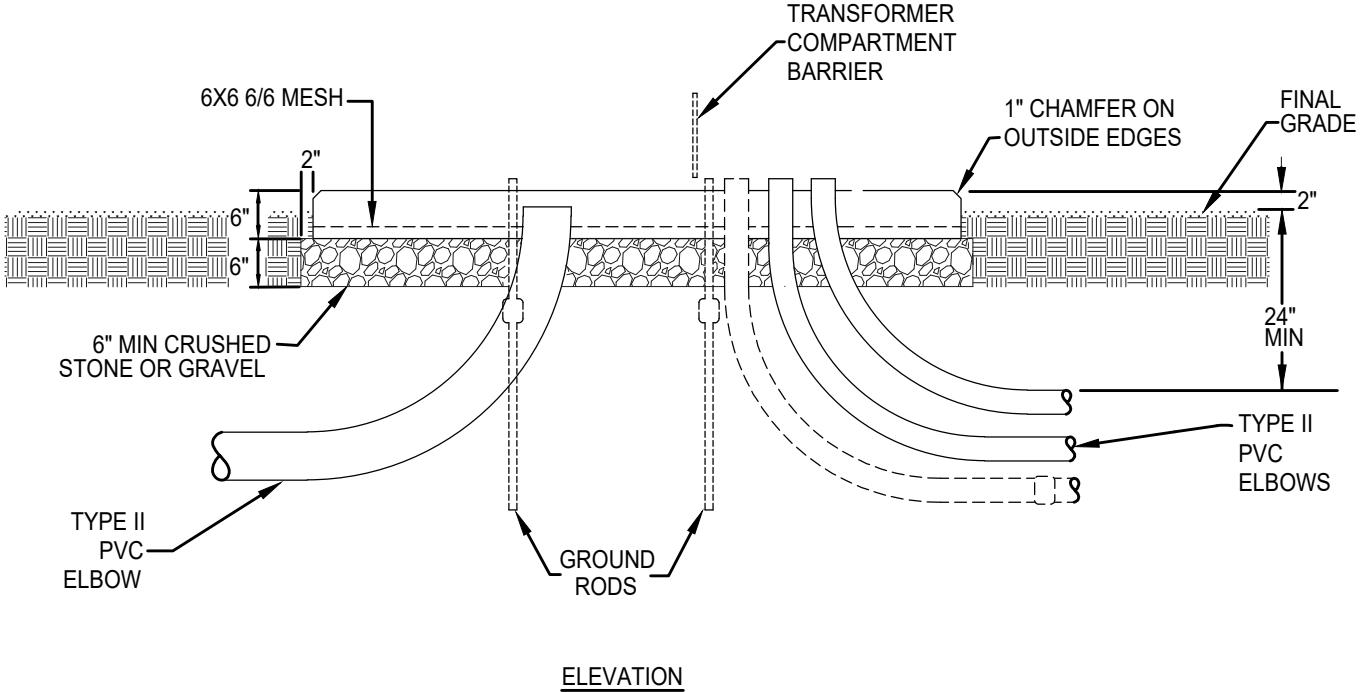
SHEET NUMBER:
E002



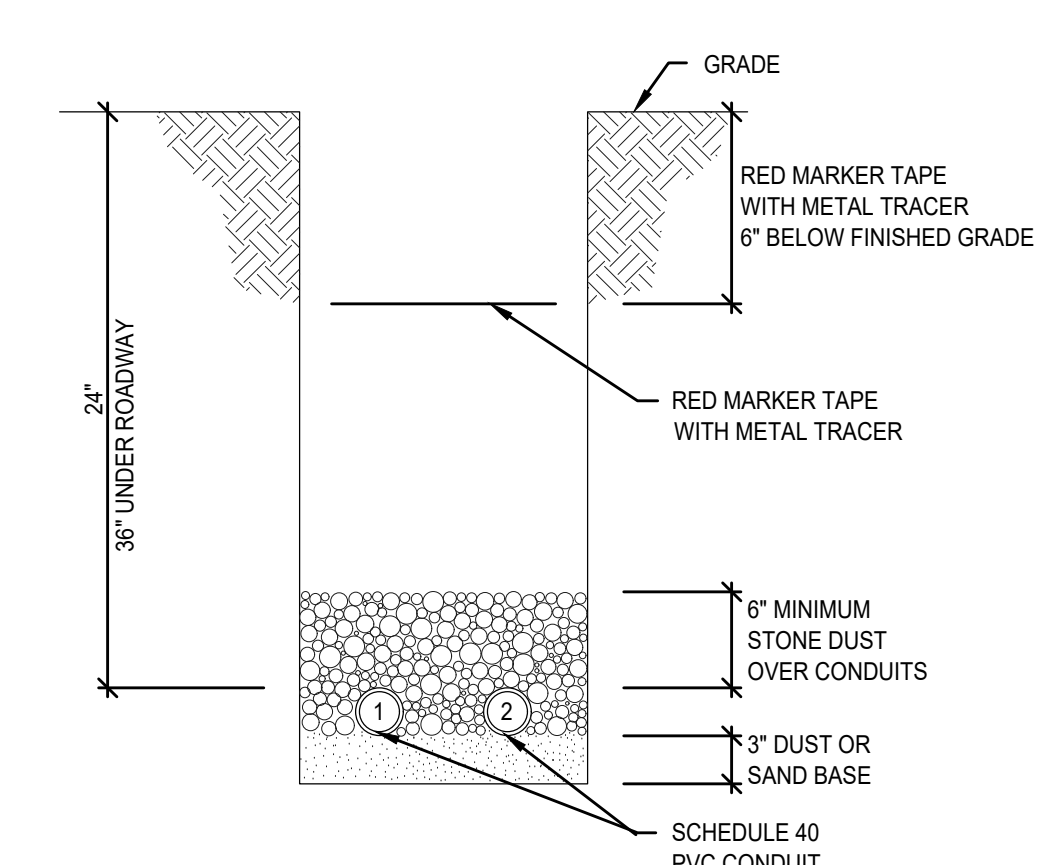
2 SITE LIGHTING POLE BASE
NO SCALE



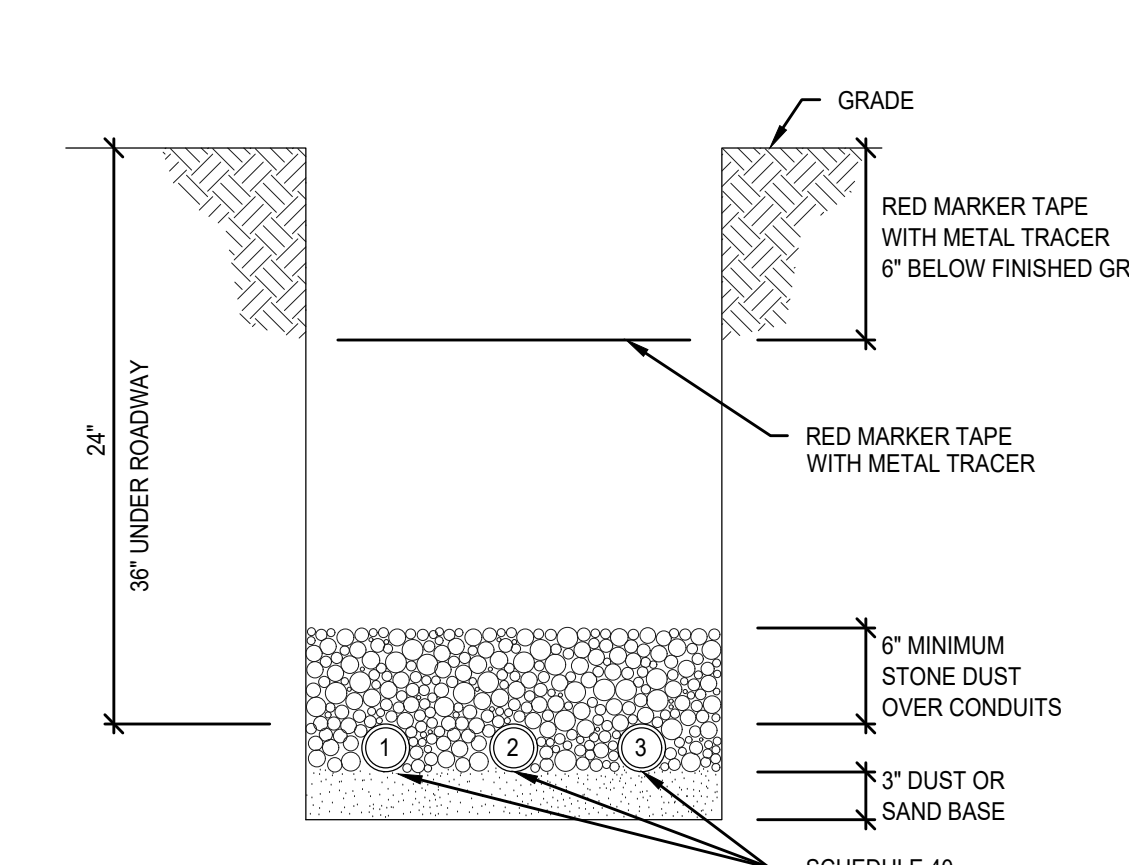
3 CONCRETE PAD FOUNDATION PAD MOUNTED TRANSFORMER
NO SCALE



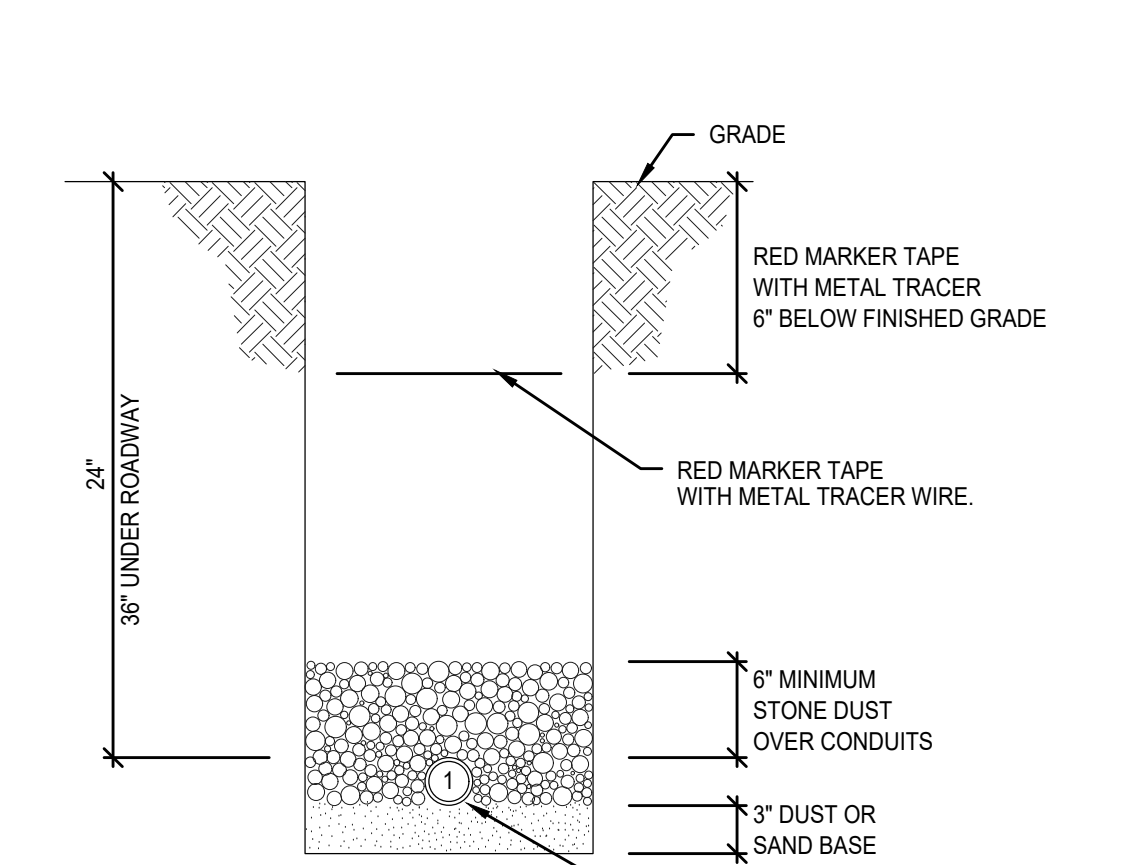
- NOTES:
- A. ON POURED IN PLACE CONCRETE PADS, THE CONCRETE SHALL BE 3000 PSI VOLUME OF CONCRETE IS APPROXIMATELY 0.7 CU. YDS WEIGHT IS APPROXIMATELY 2300 LBS.
 - B. SECONDARY DUCTS SHOULD NOT EXTEND MORE THAN 2' ABOVE THE TOP OF THE FOUNDATION TO ALLOW FOR TERMINATING THE CABLES.
 - C. EXTEND GROUND RODS 2' ABOVE THE TOP OF THE FOUNDATION TO ACCOMMODATE A GROUND JUMPER.



UNDERGROUND CONDUIT SECTION "A"
NO SCALE



UNDERGROUND CONDUIT SECTION "B"
NO SCALE



UNDERGROUND CONDUIT SECTION "C"
NO SCALE

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SHEET INFORMATION

KEY PLAN

NUMBERED NOTES:

- 1 CONNECT TO LINE SIDE OF LOCAL CIRCUIT.
- 2 FIXTURE TO BE MOUNTED IN TOP FROM OF DISPLAY CABINET. COORDINATE LOCATION WITH GC PRIOR TO INSTALLING.

REFERENCE NOTES:

- LIGHTING CONTROL
- A SEE LIGHTING CONTROL DIAGRAM SHEET E601
 - B SEE LIGHTING CONTROL DIAGRAM SHEET E601
 - C SEE LIGHTING CONTROL DIAGRAM SHEET E601
 - D SEE LIGHTING CONTROL DIAGRAM SHEET E601
 - E SEE LIGHTING CONTROL DIAGRAM SHEET E601
 - F SEE LIGHTING CONTROL DIAGRAM SHEET E602
 - G SEE LIGHTING CONTROL DIAGRAM SHEET E602

REVISIONS		
REV. #:	DESCRIPTION:	DATE:

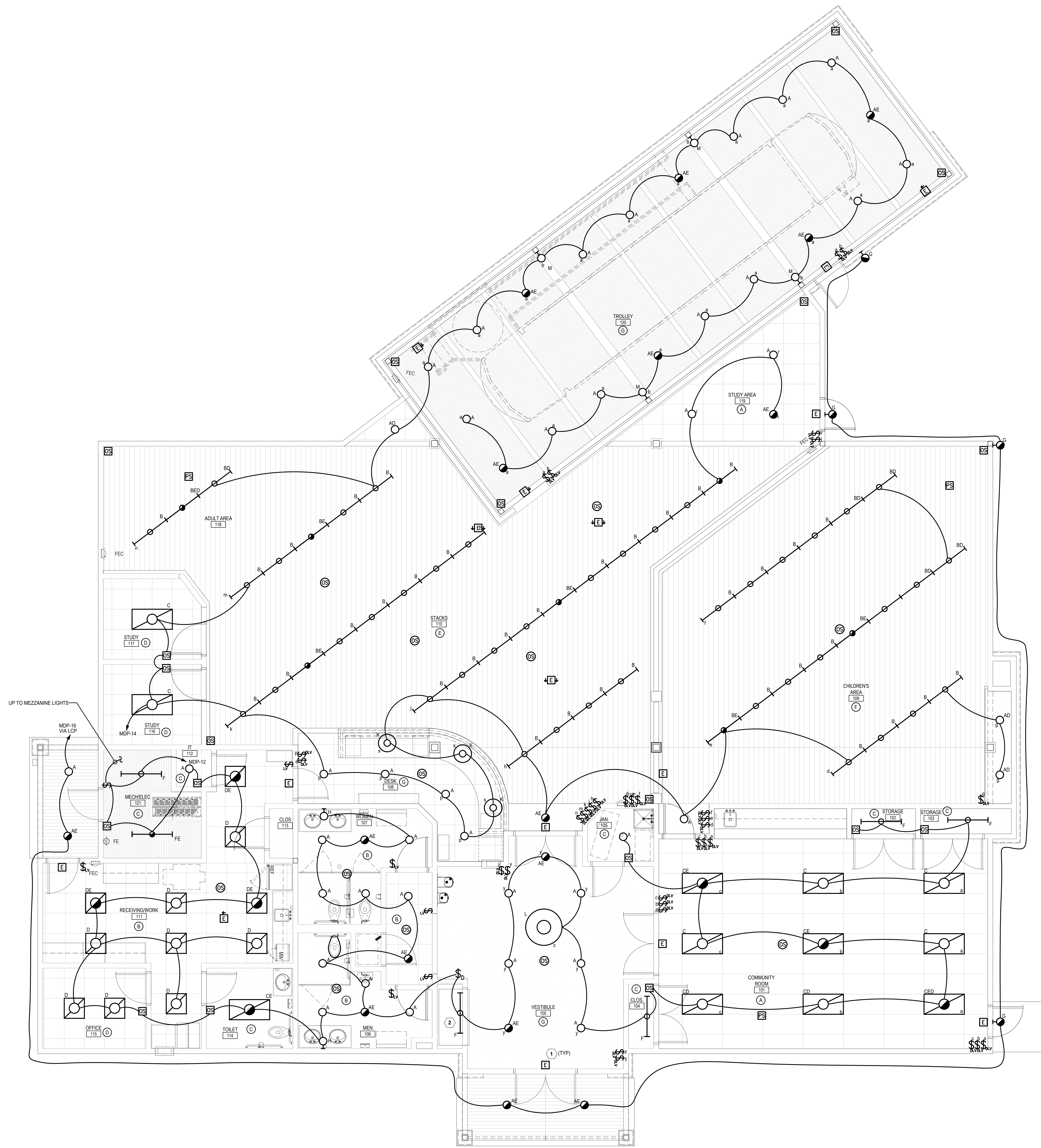
PROJECT STATUS

JOB NUMBER:	16-1043
ISSUE DATE:	10 APRIL 2018
SCALE:	AS INDICATED
SHEET TITLE:	AS INDICATED

FIRST FLOOR PLAN-LIGHTING

SHEET NUMBER:

E201



FIRST FLOOR PLAN - LIGHTING
SCALE: 1/4" = 1'-0"

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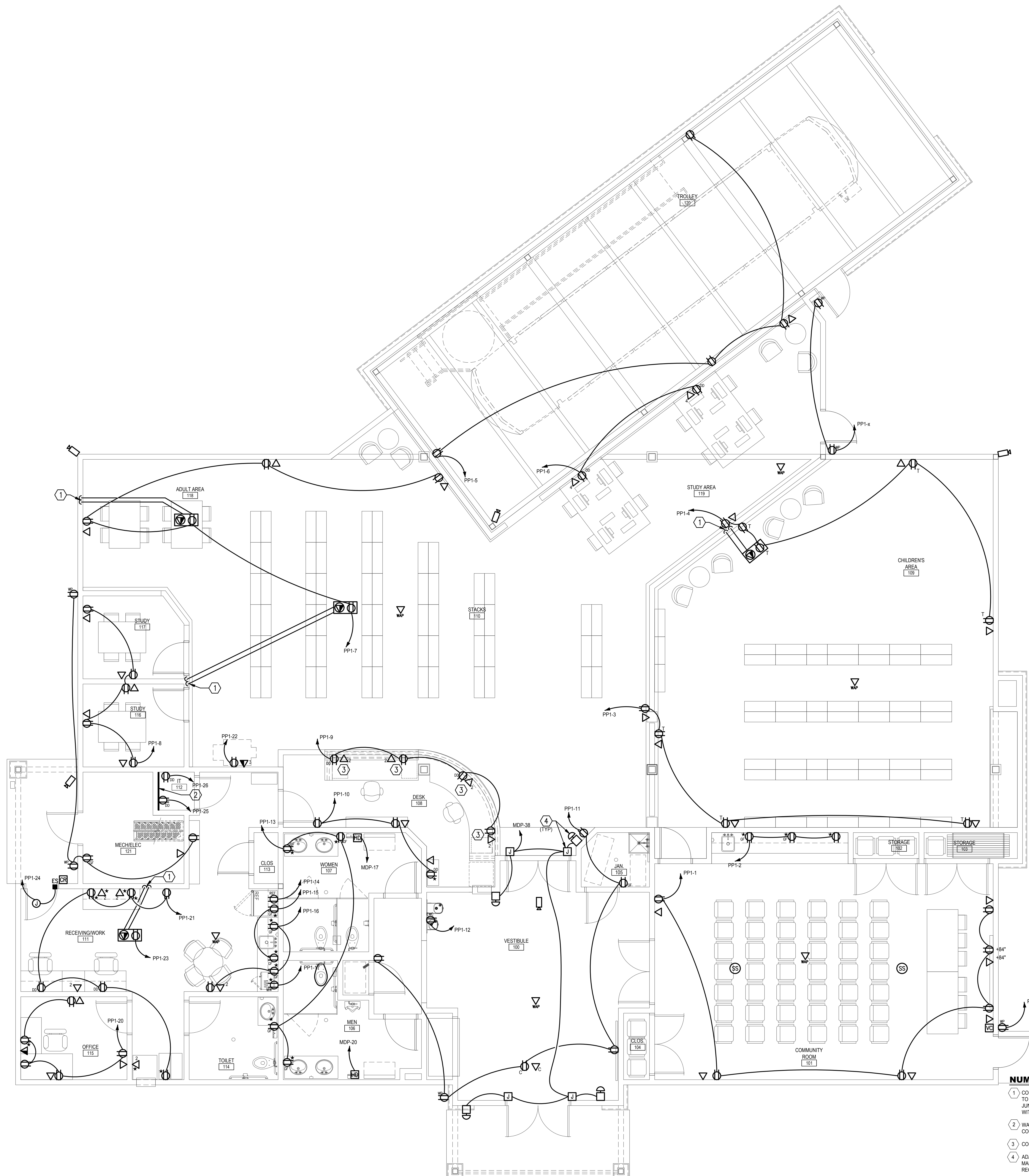
REV. #:	DESCRIPTION:	DATE:

JOB NUMBER: **16-1043**
ISSUE DATE: **10 APRIL 2018**
SCALE:
SHEET TITLE: **AS INDICATED**

FIRST FLOOR PLAN-POWER AND SYSTEMS

SHEET NUMBER:

E301



NUMBERED NOTES:

- CONDUITS FOR POWER AND DATA SHALL BE INSTALLED BELOW SLAB TO POINTS INDICATED. CONTINUE POWER CONDUIT UP WALL TO JUNCTION BOX FOR ROOM CIRCUIT. DATA CONDUIT SHALL RUN UP WITHIN WALL CAVITY TO 18" ABOVE CEILING HEIGHT.
- WALL SHALL BE COVERED WITH 3/4" FIREPROOF PLYWOOD COORDINATE WITH G.C.
- COORDINATION INSTALLATION WITH G.C. PRIOR TO INSTALLING.
- ADA DOOR CONTROLLER AND PUSH BUTTON. CONTRACTOR SHALL MAKE ALL CONNECTIONS AND FOLLOW MANUFACTURERS REQUIREMENTS.

1 FIRST FLOOR PLAN - POWER AND SYSTEMS
E301
SCALE: 1/4" = 1'-0"

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NUMBERED NOTES:

- 1 PROVIDE 240V, 2 POLE, 30A, NEMA 12, NON-FUSED DISCONNECT AND 2 #10 & 1 #10 EGC IN 3/4"
- 2 PROVIDE 20A/2P MANUAL MOTOR STARTER
- 3 PROVIDE 240V, 3 POLE, 60A, NEMA 3R, FUSED DISCONNECT AND 60A FUSES.
- 4 PROVIDE 240V, 3 POLE, 100A, NEMA 3R, FUSED DISCONNECT AND 100A FUSES.
- 5 3 #1 & 1 #8 EGC IN 1 1/2"
- 6 3 #4 & 1 #10 EGC IN 1 1/4"

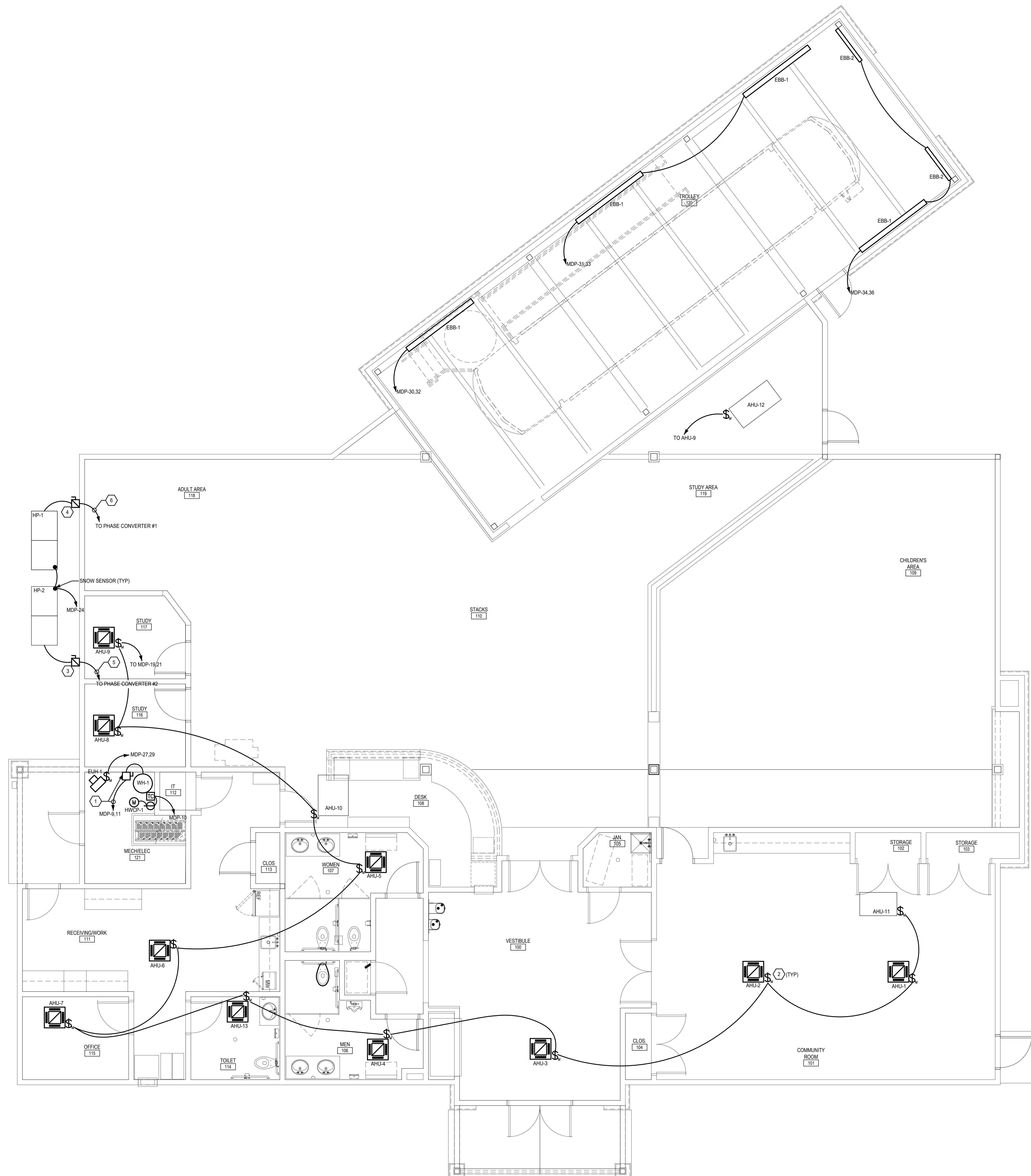
REV. #:	DESCRIPTION:	DATE:

JOB NUMBER: **16-1043**
 ISSUE DATE: **10 APRIL 2018**
 SCALE:
 SHEET TITLE: **AS INDICATED**

FIRST FLOOR PLAN - MECHANICAL POWER

SHEET NUMBER:

E302



FIRST FLOOR PLAN - MECHANICAL POWER
 SCALE: 1/4" = 1'-0"

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SHEET INFORMATION

KEY PLAN

REVISIONS

REV. #:	DESCRIPTION:	DATE:
-	-	-
-	-	-
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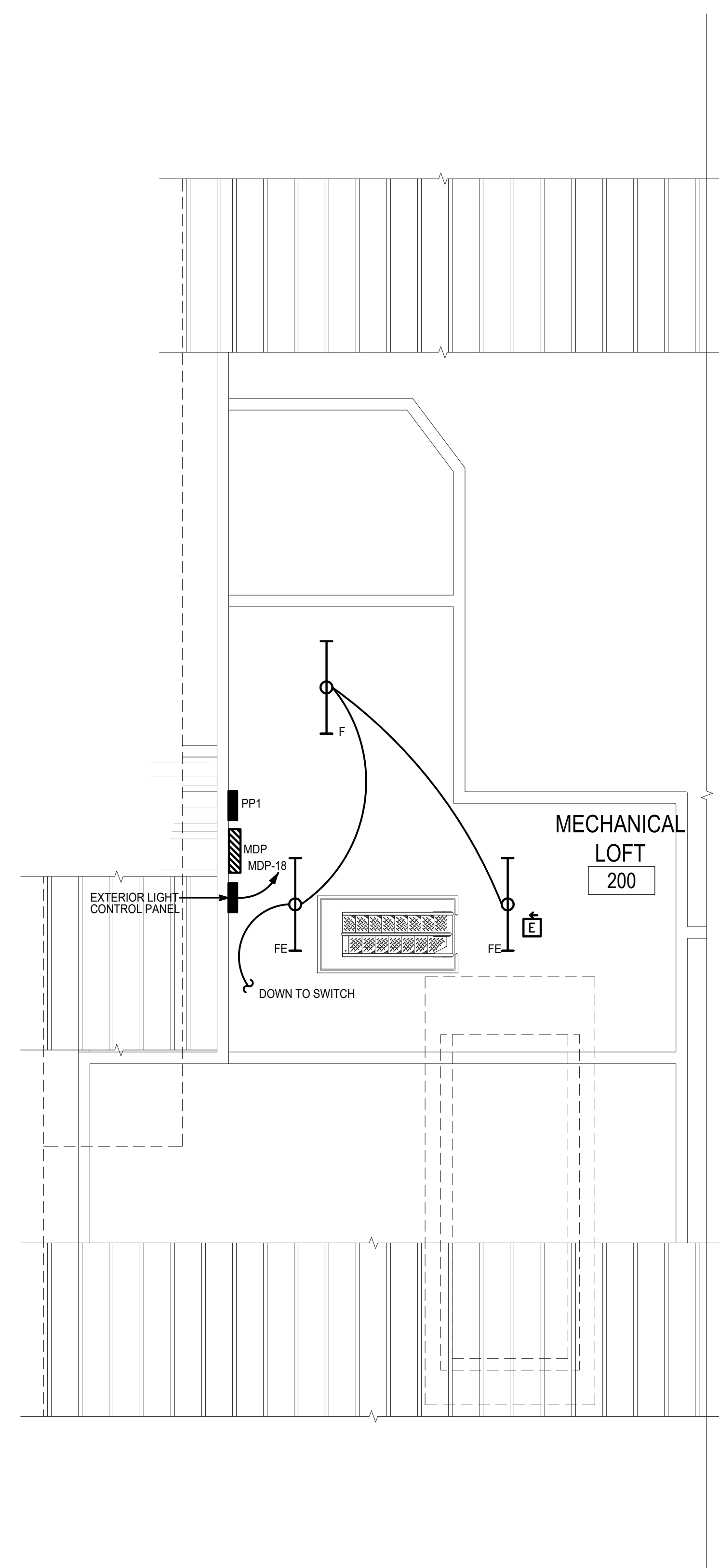
PROJECT STATUS

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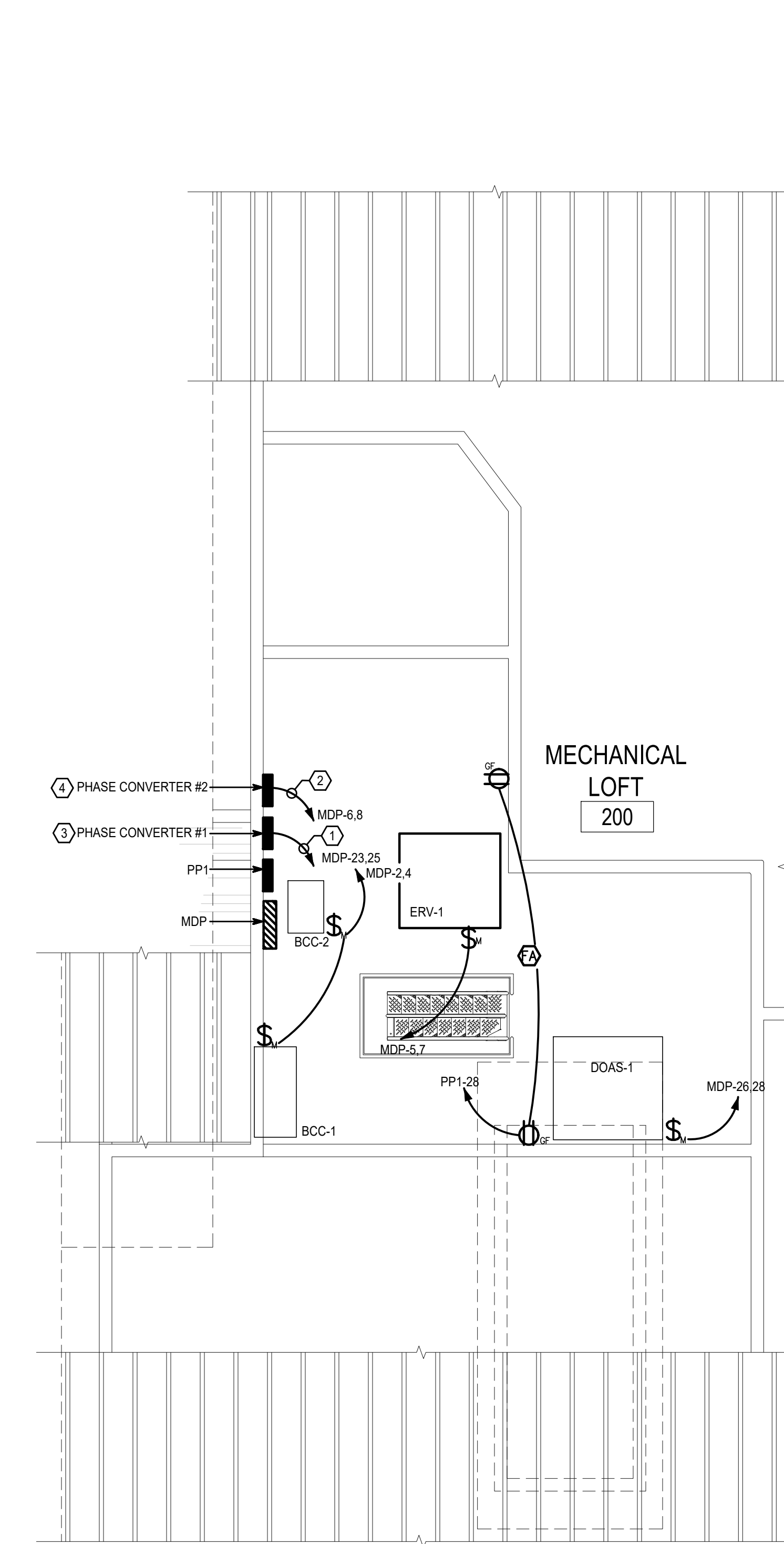
PART PLAN LOFT-ELECTRICAL

SHEET NUMBER:

E401



1 PART PLAN LOFT - LIGHTING
E401 SCALE: 1/4" = 1'-0"



2 PART PLAN LOFT - POWER & SYSTEMS
E401 SCALE: 1/4" = 1'-0"

- NUMBERED NOTES:**
- 2 # 1 & 1 #6 EGC IN 1 1/4" C
 - 2 #3 & 1 #6 EGC IN 1" C
 - PROVIDE PHASE PERFECT MODEL PT-3-110 PHASE CONVERTER OR APPROVED EQUAL.
 - PROVIDE PHASE PERFECT MODEL PT-3-80 PHASE CONVERTER OR APPROVED EQUAL.

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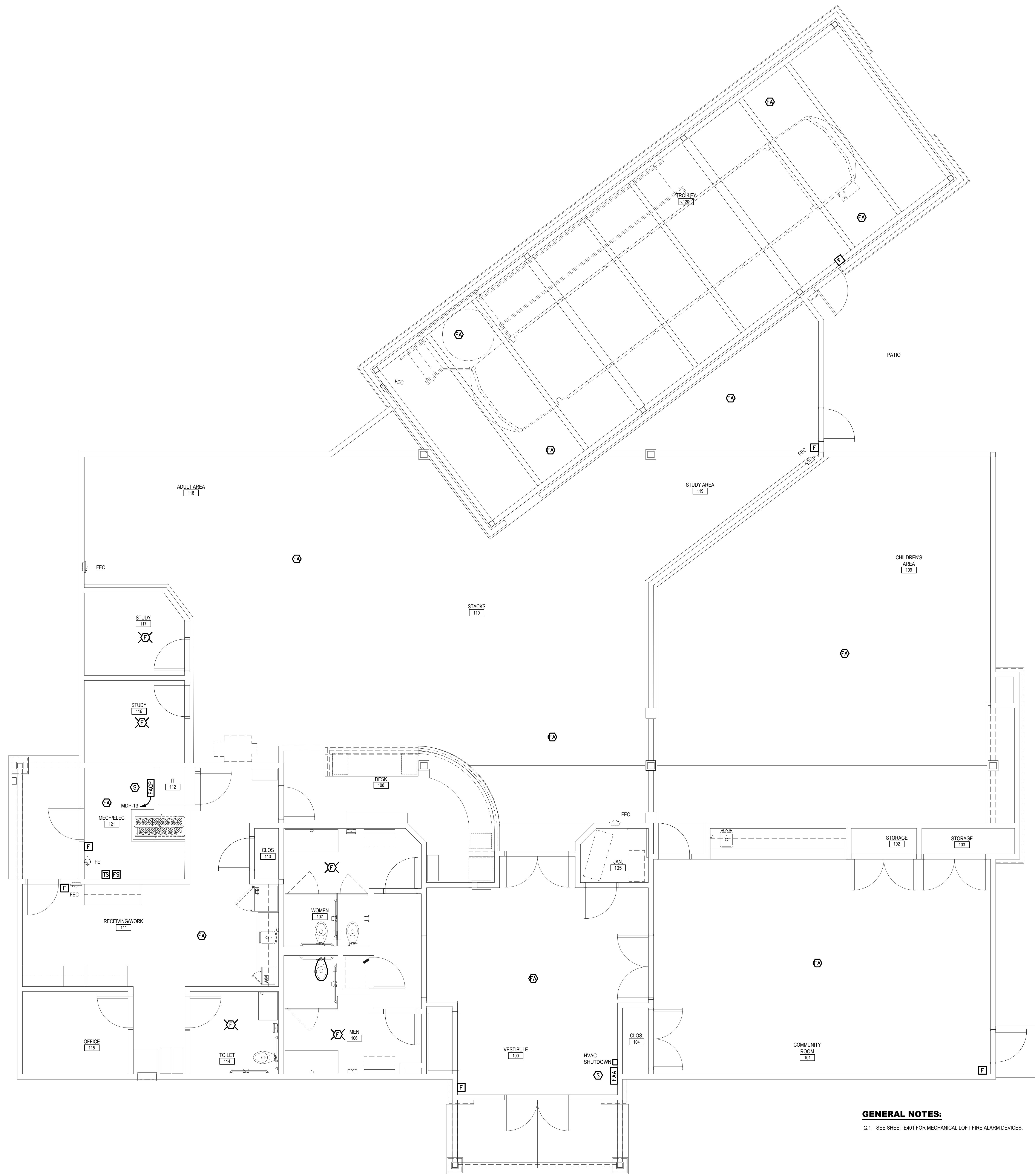
REV. #:	DESCRIPTION:	DATE:

JOB NUMBER: **16-1043**
ISSUE DATE: **10 APRIL 2018**
SCALE:
SHEET TITLE: **AS INDICATED**

FIRST FLOOR PLAN-FIRE ALARM

SHEET NUMBER:

E501

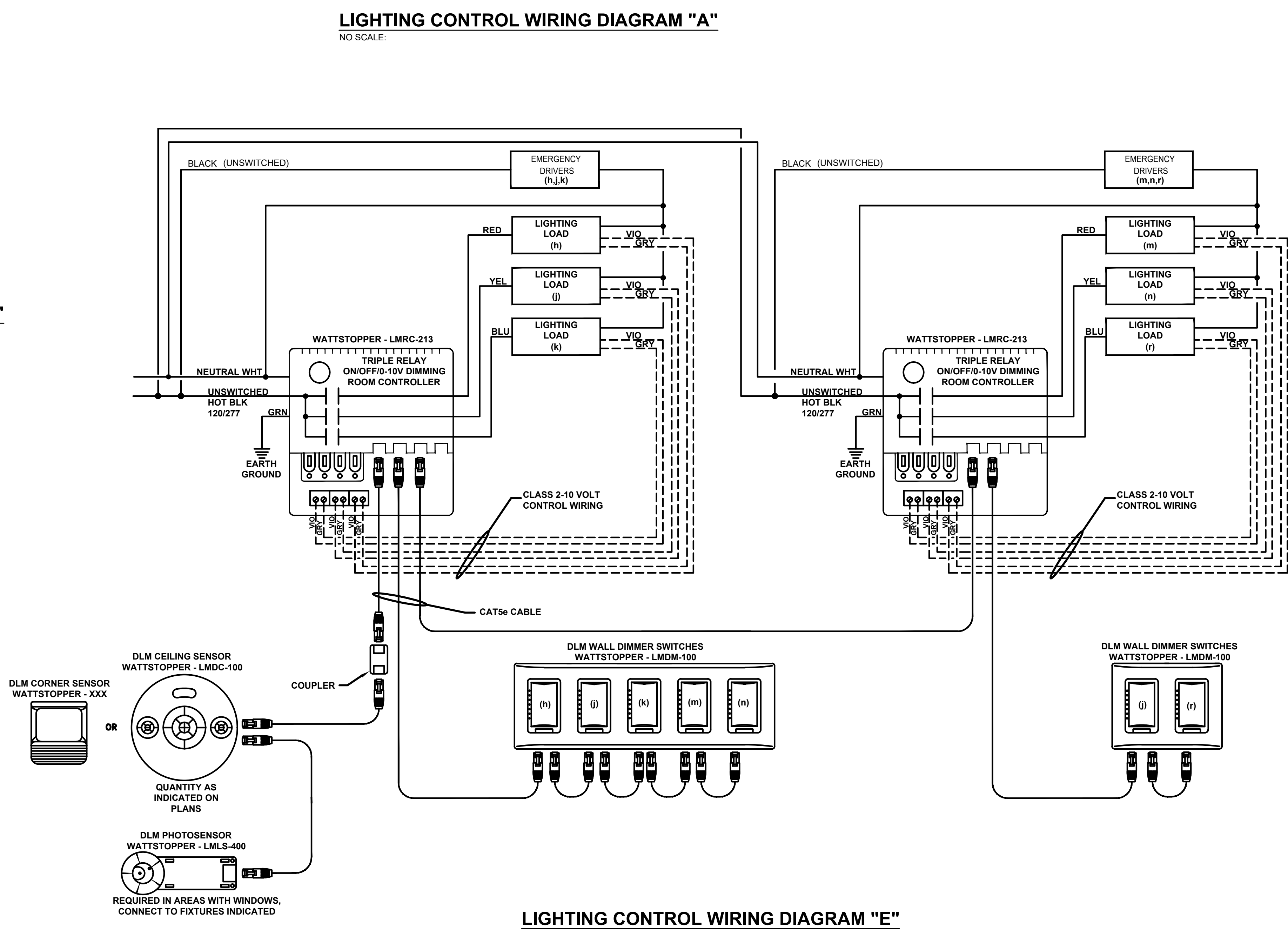
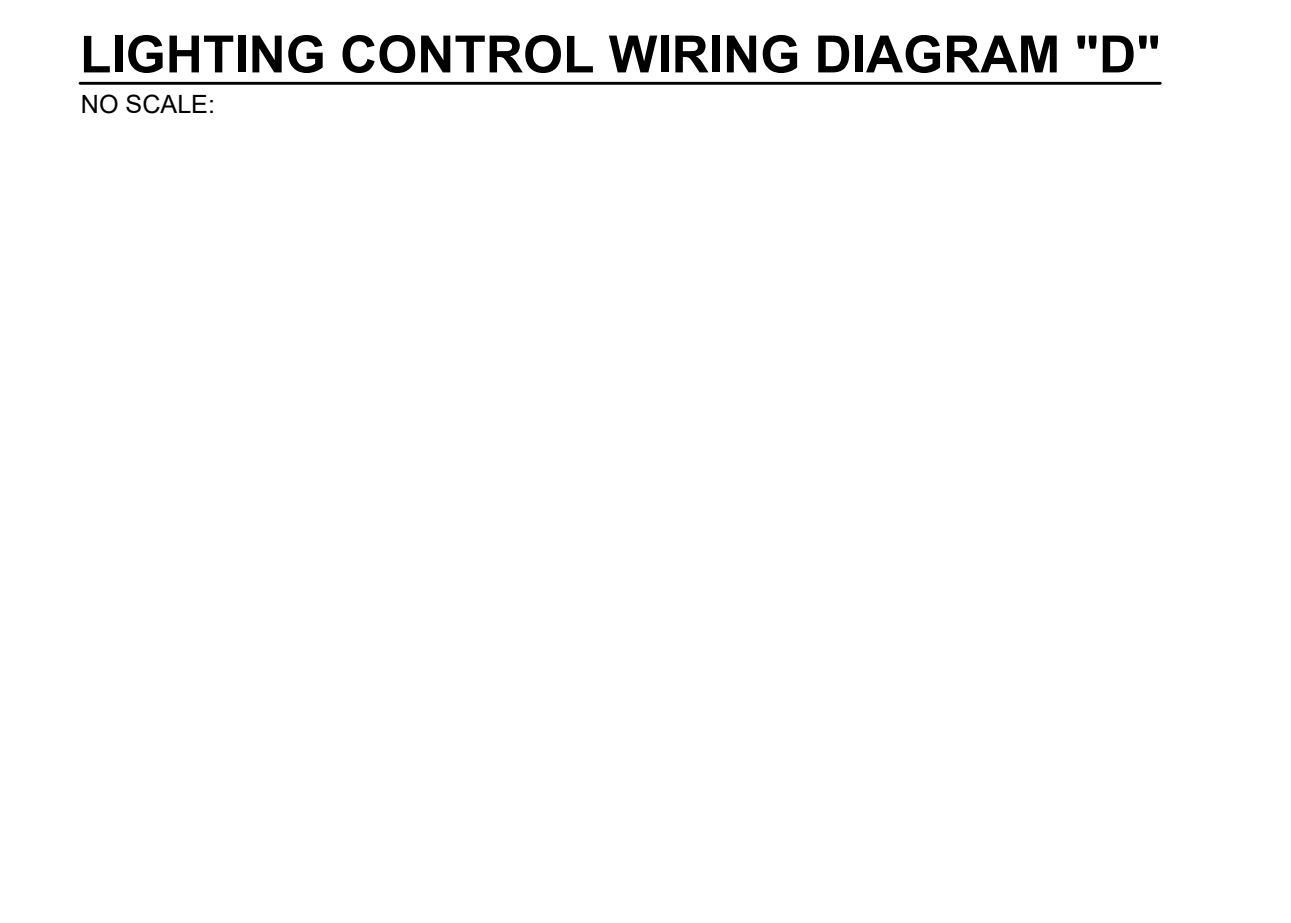
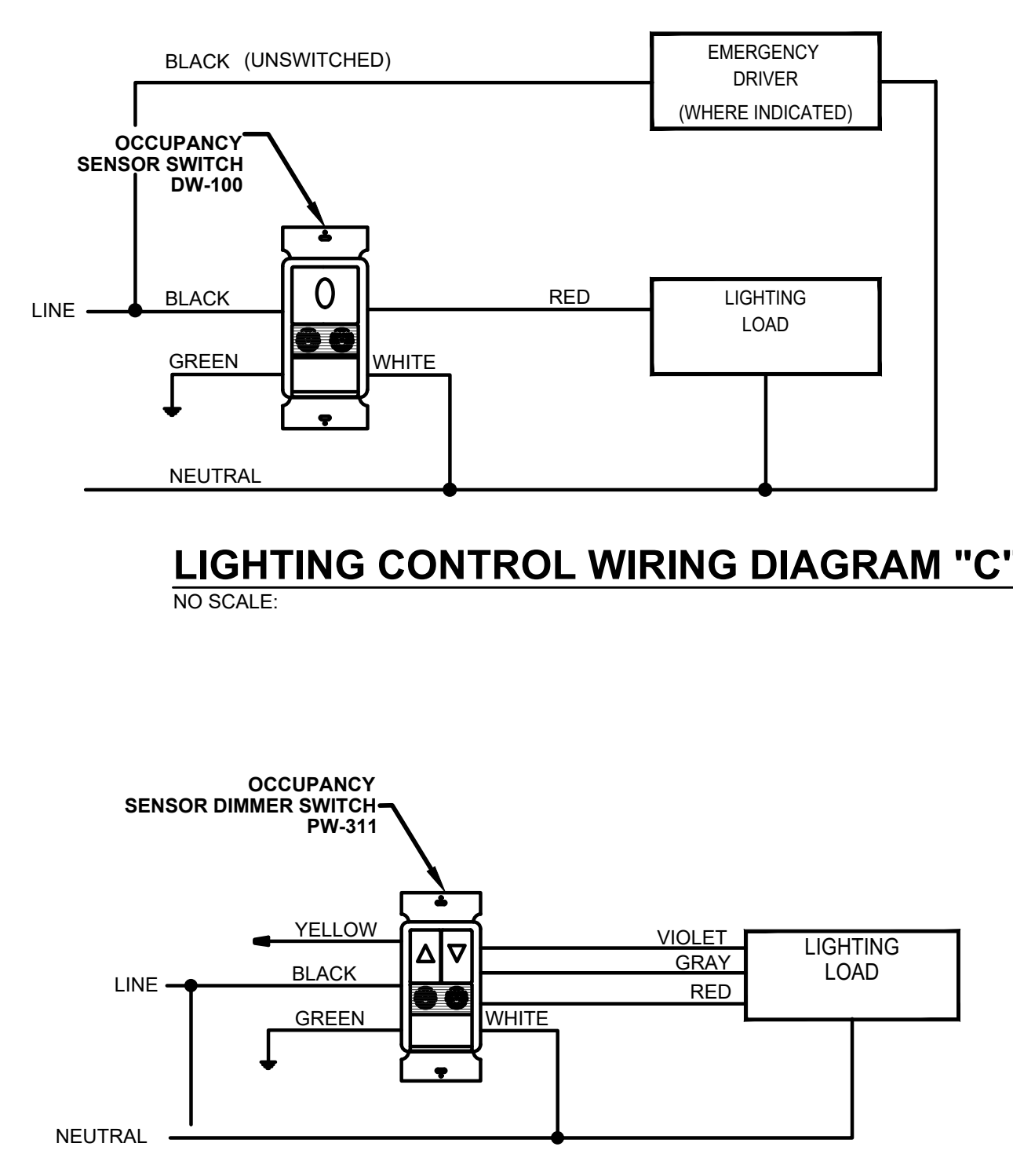
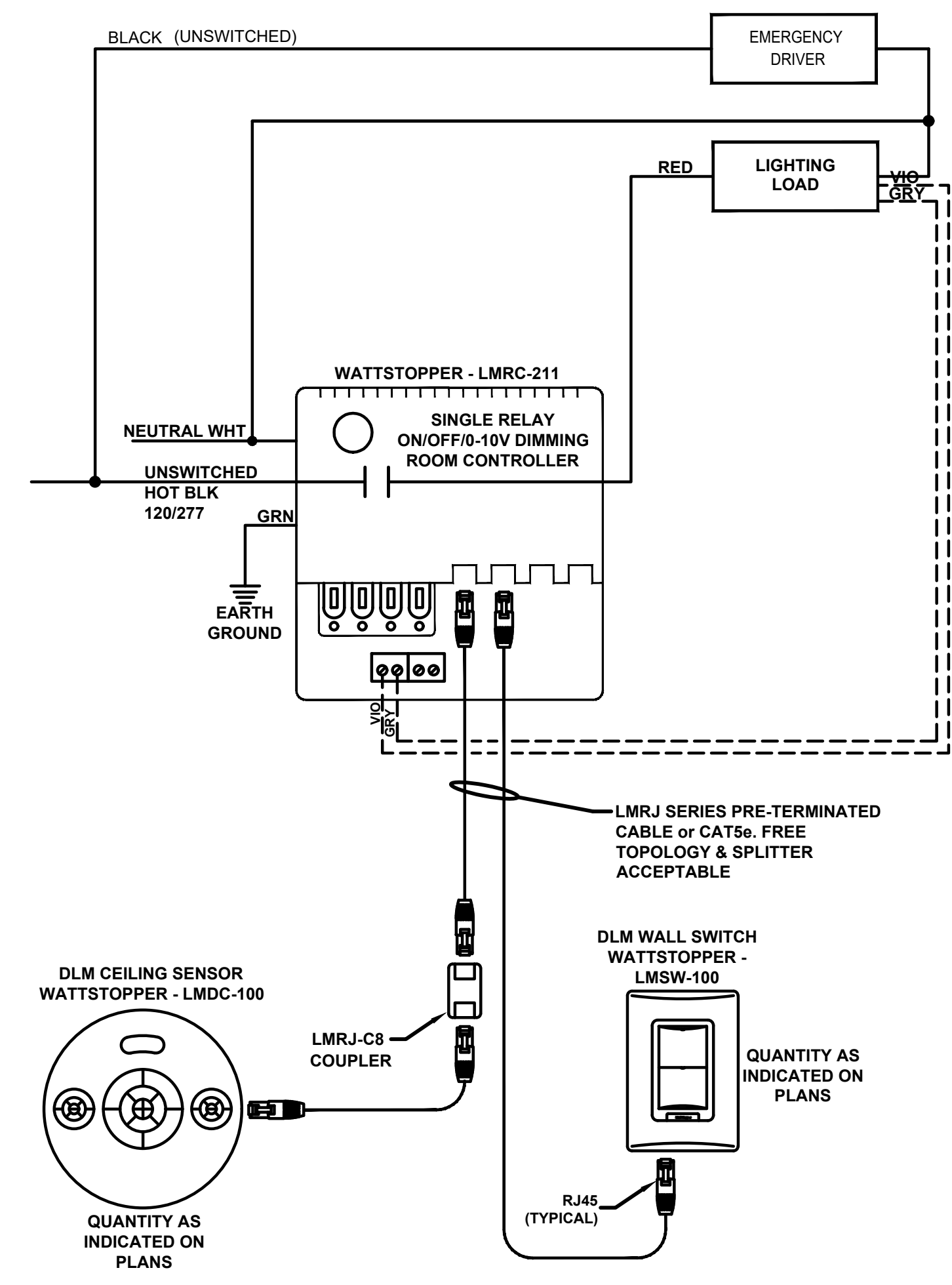
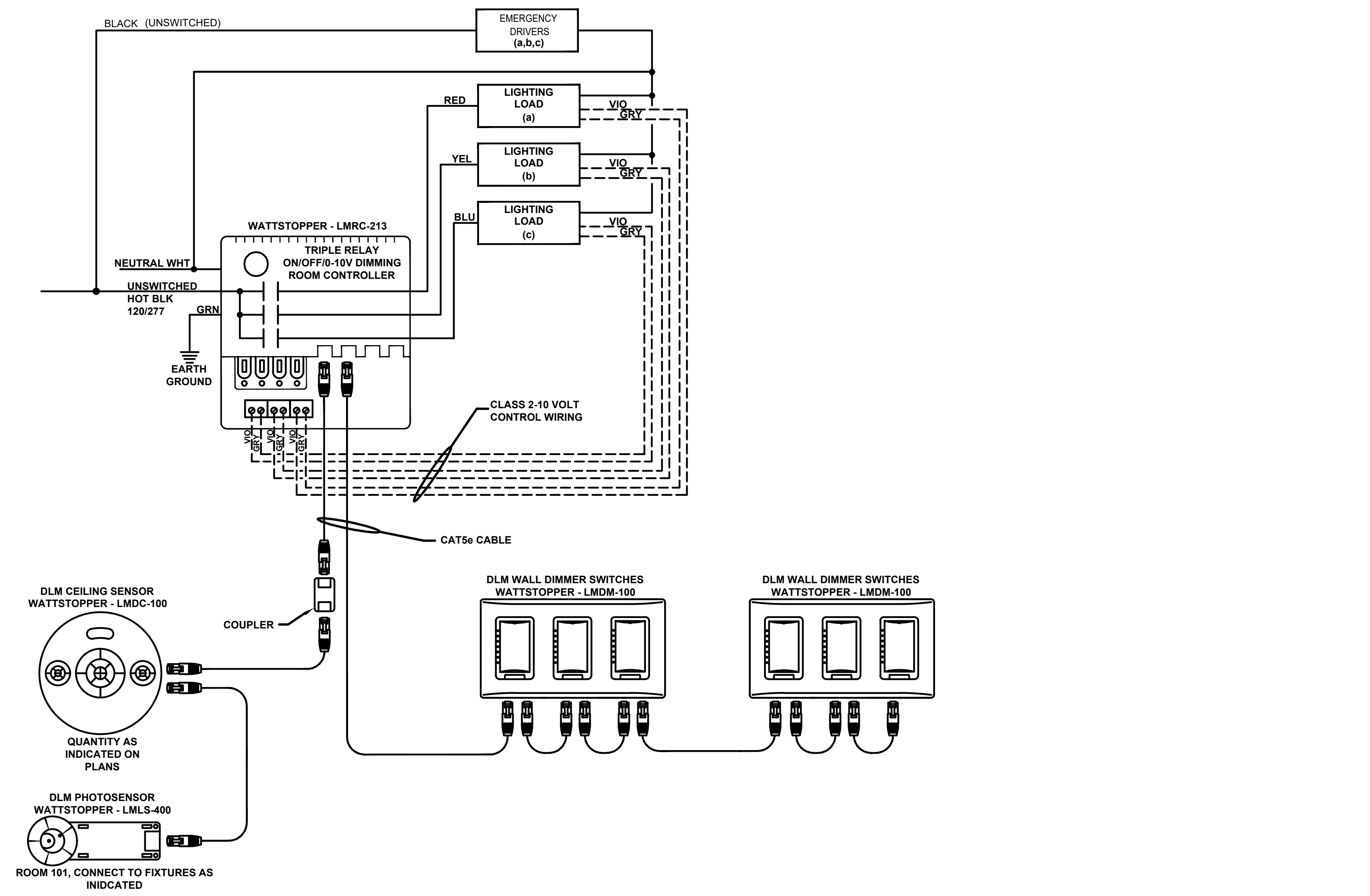


GENERAL NOTES:

G.1 SEE SHEET E401 FOR MECHANICAL LOFT FIRE ALARM DEVICES.

1
E501 **FIRST FLOOR PLAN - FIRE ALARM**
SCALE: 1/4" = 1'-0"

LIGHTING FIXTURE SCHEDULE						
MARK	NUMBER OF LAMPS AND WATTAGE	MANUFACTURE	CATALOG NUMBER	DRIVER VOLTAGE	TYPE OF MOUNTING	REMARKS
A AE AD	LED (30 W)	DECO LIGHTING	DLED-AFK6-30-DLEDT-R640-UNV-DM	UNV	RECESSED	AE = PROVIDE EM OPTION FOR EMERGENCY LIGHTING
						AD = FIXTURES SHALL BE CONNECTED TO DAYLIGHT SENSOR
B BE BD	LED (45 W)	DECO LIGHTING	EVIAT-LED-#45-40-UNV-Cxx-DM	UNV	PENDANT	BE = PROVIDE IEM OPTION FOR EMERGENCY LIGHTING
						BD = FIXTURES SHALL BE CONNECTED TO DAYLIGHT SENSOR
C CE CD	LED (30 W)	DECO LIGHTING	SFP-LED-24-30-40-UNV	UNV	RECESSED	CE = PROVIDE IEM OPTION FOR EMERGENCY LIGHTING
						CD = FIXTURES SHALL BE CONNECTED TO DAYLIGHT SENSOR
D DE	LED (30W)	DECO LIGHTING	SFP-LED-22-30-40-UNV	UNV	RECESSED	DE = PROVIDE IEM OPTION FOR EMERGENCY LIGHTING
F FE	LED (23 W)	DECO LIGHTING	DACH-LED-4-23-40-UNV-R-DM	UNV	SURFACE	FE = PROVIDE IEM OPTION FOR EMERGENCY LIGHTING
G	LED (40W)	DECO LIGHTING	D488-LED-40-41-UNV-BL	UNV	WALL	
H	LED (27W)	UTOPIA LIGHTING	STS LED-4-27LED40-UNV	UNV	WALL	
K	LED (14W)	HUBBARDTON FORGE	363010	UNV	PENDANT	
L	LED (78W)	XAL LIGHTING	MIN2C573C7250H770400	UNV	PENDANT	
M	LED (6W)	HUBBARDTON FORGE	302712-SKT-75	UNV	WALL	
N	LED (80W)	VISIONAIRE LIGHTING	PRE-2-L-T3-48-530-3K-UNV-PT-BZ	UNV	POLE	POLE - RNTA-4-125-14-AKB-343-T4R-BZ
						BASE - DCB-10-4RS-BZ
P	LED (80W)	VISIONAIRE LIGHTING	PRE-2-L-T5-48-530-3K-UNV-PT-BZ	UNV	POLE	POLE - RNTA-4-125-14-AKB-343-T4R-BZ
						BASE - DCB-10-4RS-BZ
E	LED (3.8W)	CARPENTER EM LIGHT	FXSP-R-1C-A	UNV	UNIVERSAL	



PROJECT INFORMATION

PROJECT TITLE

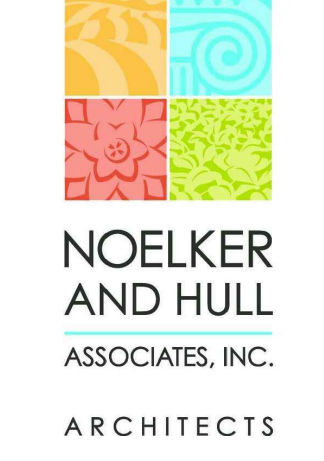
MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
8 HARP PLACE
MYERSVILLE, MD 21773

PROJECT OWNER
FREDERICK COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

PROJECT TEAM

ARCHITECT



NOELKER AND HULL ASSOCIATES, INC.
ARCHITECTS

STRUCTURAL ENGINEER

ABEL CONSULTING ENGINEERS

M/E/P ENGINEER

C.J.I. ENGINEERING

CIVIL ENGINEER

HARRIS, SMARIGA & ASSOCIATES, INC.

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No: 45511. Expiration Date: 06/03/2020

SHEET INFORMATION

KEY PLAN

REVISIONS		
REV. #:	DESCRIPTION:	DATE:

PROJECT STATUS

JOB NUMBER:	16-1043
ISSUE DATE:	10 APRIL 2018
SCALE:	AS INDICATED
SHEET TITLE:	AS INDICATED

LIGHTING SCHEDULE AND CONTROL DIAGRAMS

SHEET NUMBER:

E601

MYERSVILLE COMMUNITY LIBRARY

PROJECT ADDRESS
8 HARP PLACE
MYERSVILLE, MD 21773

PROJECT OWNER
FREDERICK COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

PROJECT TEAM

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Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No:45511. Expiration Date: 06/03/2020

SHEET INFORMATION
KEY PLAN

REVISIONS

REV. #:	DESCRIPTION:	DATE:

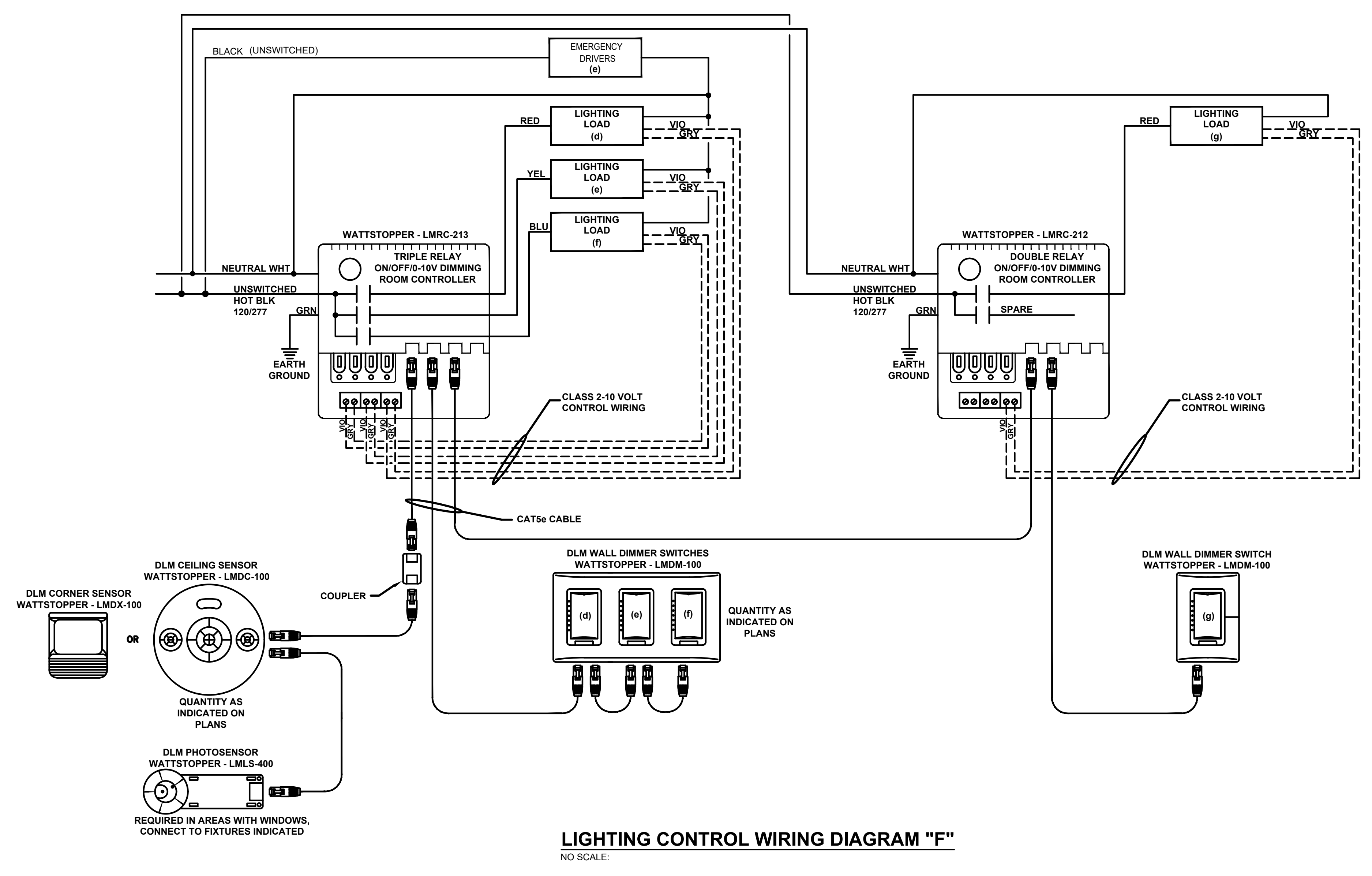
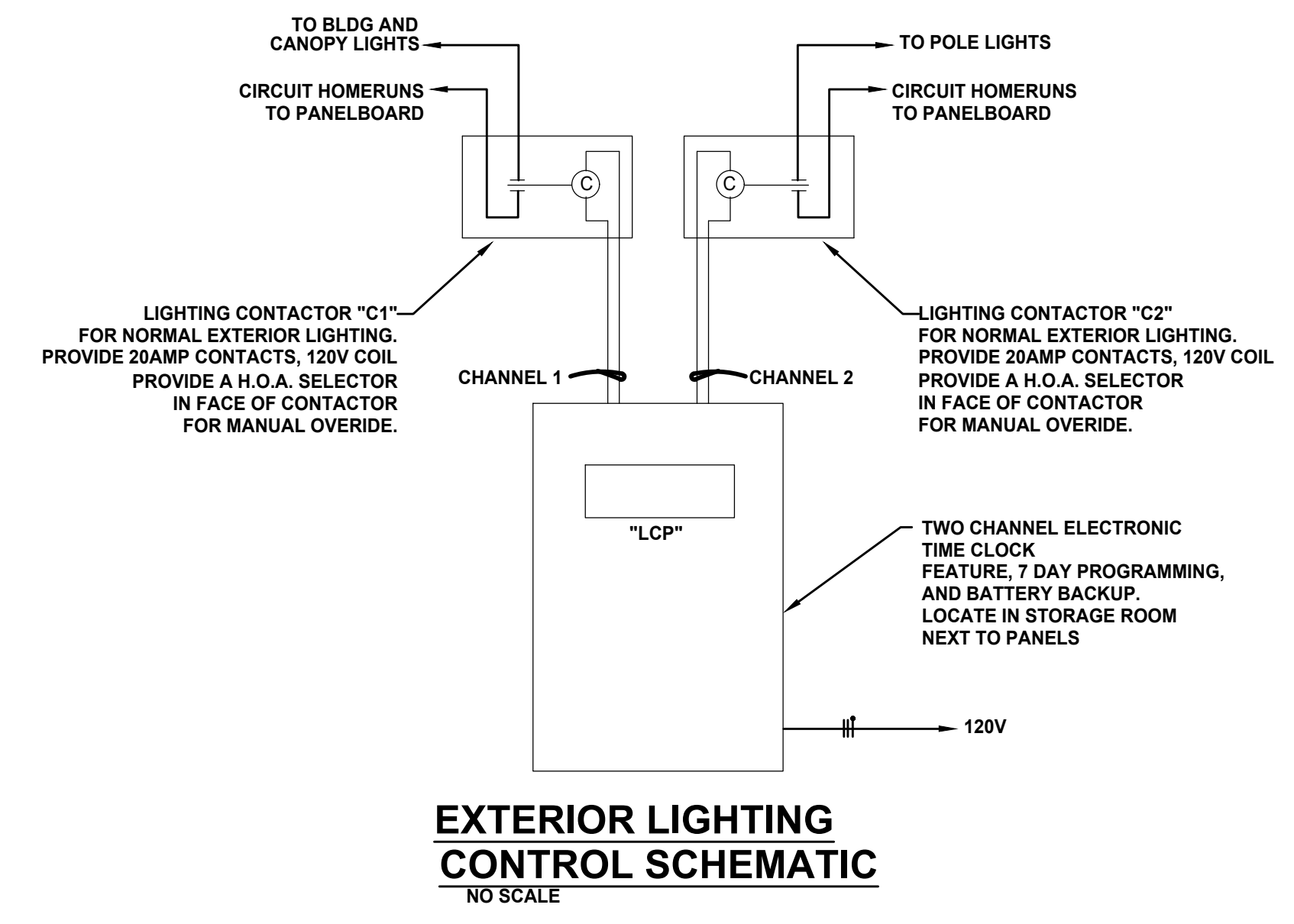
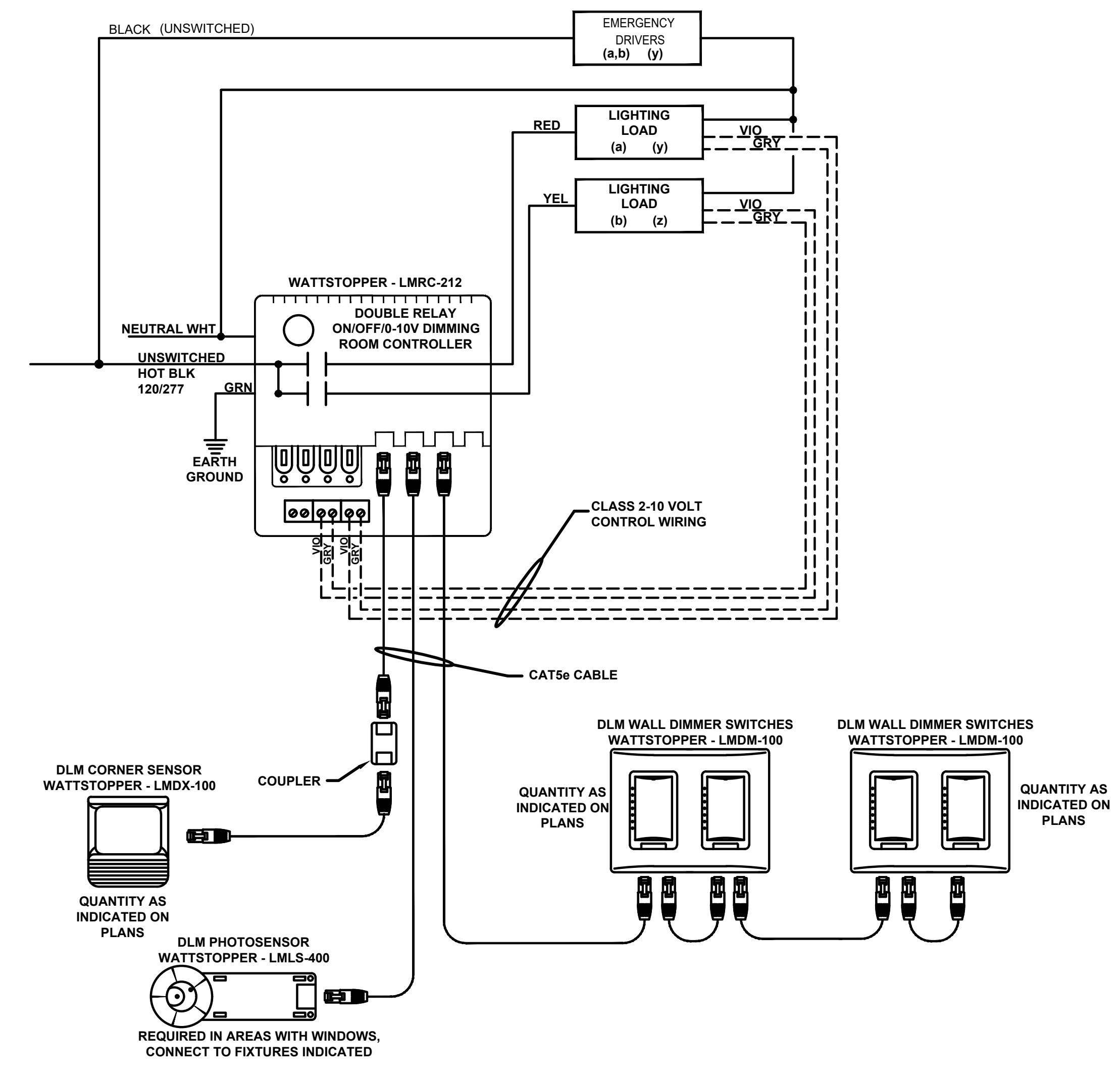
PROJECT STATUS

JOB NUMBER:	16-1043
ISSUE DATE:	10 APRIL 2018
SCALE:	AS INDICATED
SHEET TITLE:	AS INDICATED

LIGHTING CONTROL DIAGRAMS

SHEET NUMBER:

E602



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8 HARP PLACE
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PROJECT OWNER
FREDERICK COUNTY,
MARYLAND
DEPARTMENT OF PUBLIC
WORKS

PROJECT TEAM

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AND HULL
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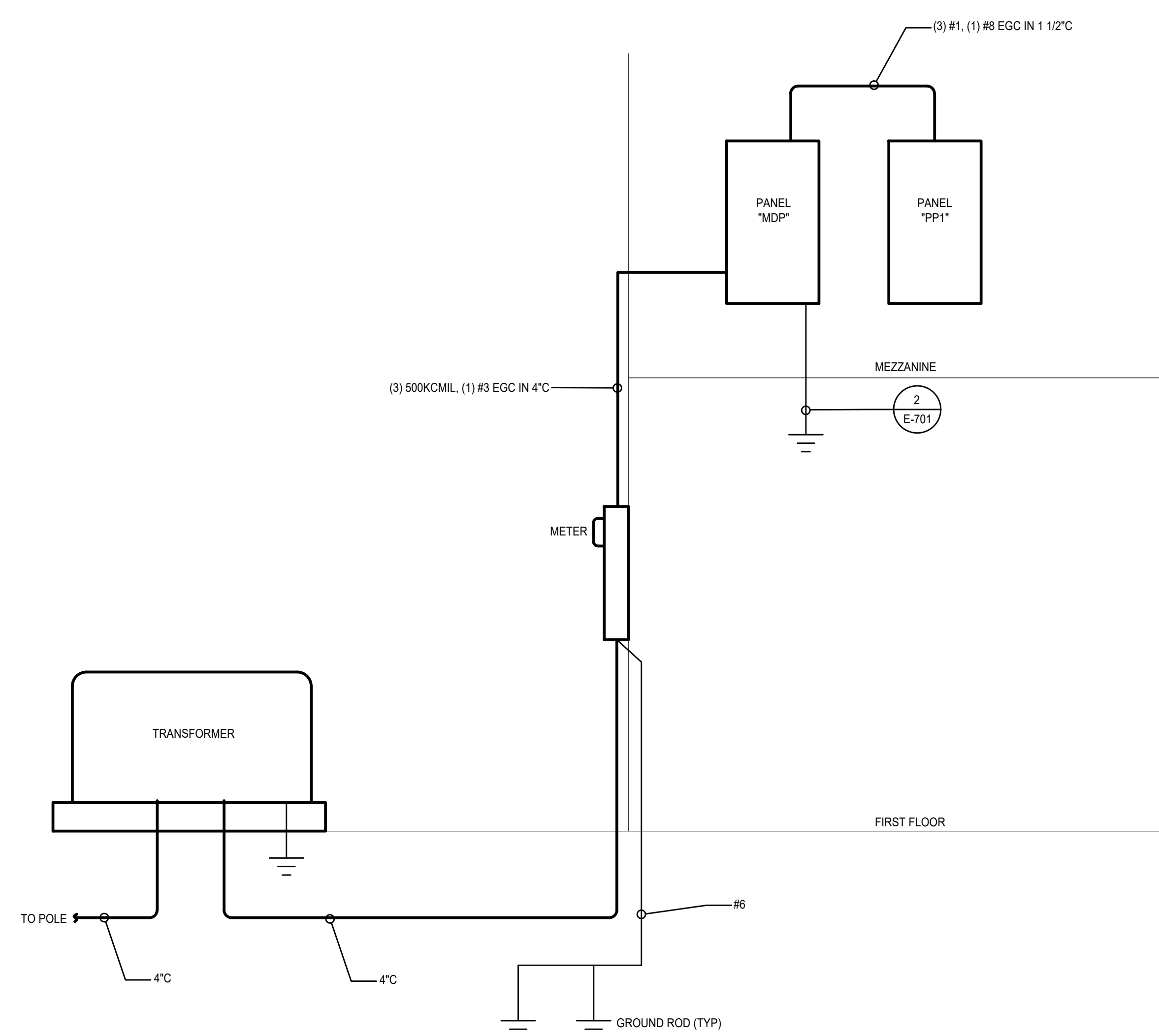
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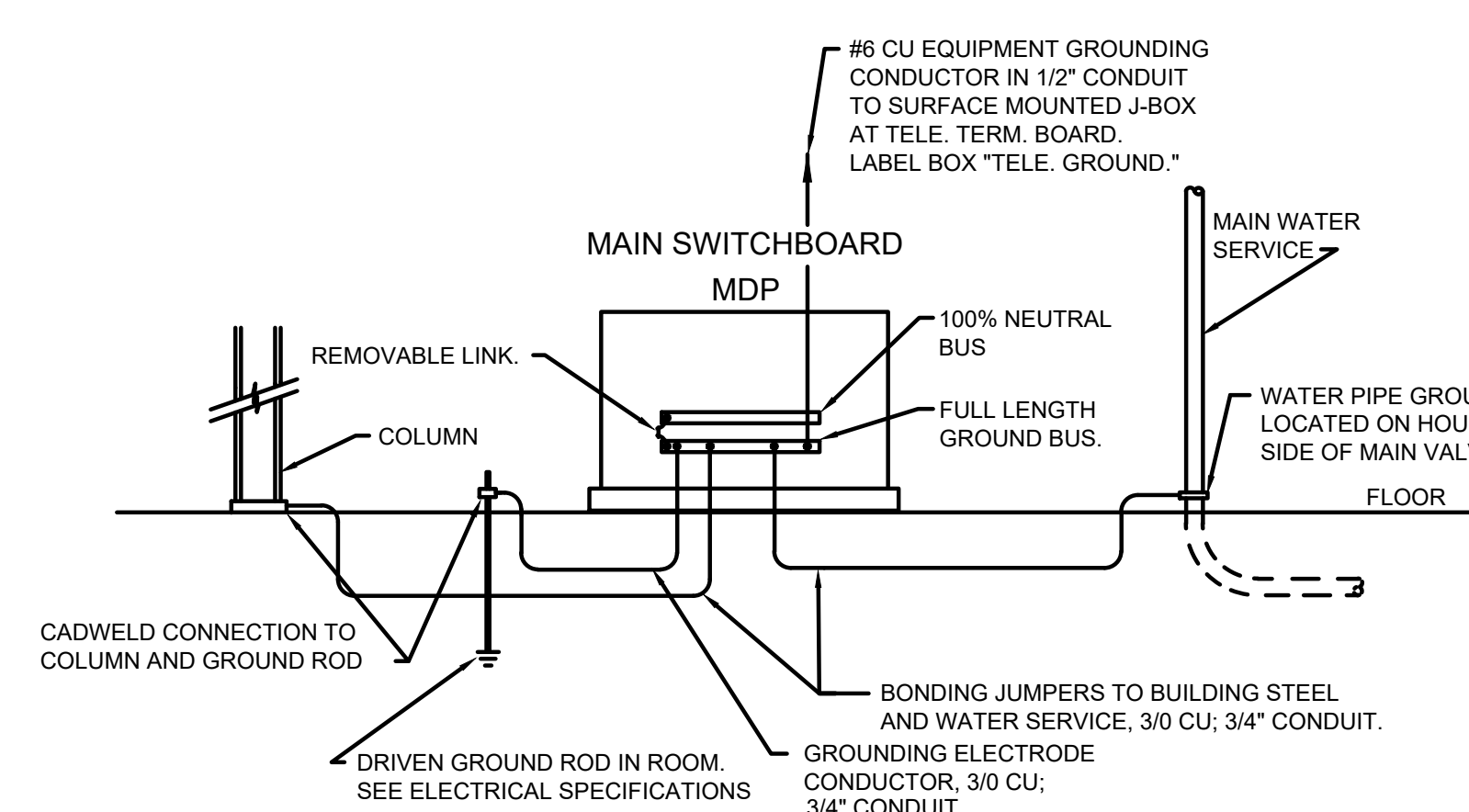
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No: 45511. Expiration Date: 06/03/2020

PANELBOARD DESIGNATION : MDP				INTERRUPTING CAPACITY : 22 KAIC					
LOCATION : MEZZANINE				MOUNTING : SURFACE					
VOLTAGE : 120/240V-1Ø-3W				GROUND BUS : COPPER					
				PANEL TYPE : SQUARE D					
DWG. CCT. NO.	LOAD KVA	TRIP POLE	CIRCUIT DESCRIPTION	PANELBOARD DIRECTORY		CIRCUIT DESCRIPTION	TRIP POLE	LOAD KVA	DWG. CCT. NO.
				NO.	NO.				
1	18.44	100/2	PANEL "PP1"	1	2	HP-1	125/2	21.77	2
3				3	4				4
5	1.3	15/2	ERV-1	5	6	HP-2	80/2	13.48	6
7				7	8				8
9	4.5	30/2	WH-1	9	10	HWCP-1	20/1	0.2	10
11				11	12	LTS: INDOOR	20/1	1.0	12
13	0.20	20/1	FACP	13	14	LTS: INDOOR	20/1	1.0	14
15	1.2	20/1	LTS: POLES	15	16	LTS: EXTERIOR	20/1	0.90	16
17	0.50	20/1	HAND DRYER	17	18	EXTERIOR LIGHT CONTROL PANEL	20/1	0.20	18
19	3.2	20/2	AHU'S	19	20	HAND DRYER	20/1	0.50	20
21				21	22	SPARE	20/1		22
23	0.56	20/2	BCC'S	23	24	SNOW SENSORS	20/1	0.20	24
25				25	26	DOAS-1	15/2	1.03	26
27	3.0	20/2	EUH-1	27	28				28
29				29	30	EBB-1	20/2	2.0	30
31	2.0	20/2	EBB-1	31	32				32
33				33	34	EBB-1, EBB-2	20/2	4.0	34
35		20/2	SPARE	35	36				36
37				37	38	ADA DOOR OPERATORS	20/1	0.5	38
39		20/1	SPARE	39	40	SPARE	20/1		40
41		20/1	SPARE	41	42	SPARE	20/1		42
	34.90		:TOTAL					46.96	

PANELBOARD DESIGNATION : PP1				INTERRUPTING CAPACITY : 22 KAIC					
LOCATION : MEZZANINE				MOUNTING : SURFACE					
VOLTAGE : 120/240V-1Ø-3W				GROUND BUS : COPPER					
				PANEL TYPE : SQUARE D					
DWG. CCT. NO.	LOAD KVA	TRIP POLE	CIRCUIT DESCRIPTION	PANELBOARD DIRECTORY		CIRCUIT DESCRIPTION	TRIP POLE	LOAD KVA	DWG. CCT. NO.
				NO.	NO.				
1	1.08	20/1	RECEPS: RM 101	1	2	RECEPS: RM 101	20/1	0.54	2
3	0.72	20/1	RECEPS: RM 109	3	4	RECEPS: RM 109	20/1	0.90	4
5	0.72	20/1	RECEPS: RM 120	5	6	RECEPS: RM 119	20/1	0.72	6
7	0.90	20/1	RECEPS: RMS 110,118	7	8	RECEPS: RMS 110,116,117	20/1	1.08	8
9	1.08	20/1	RECEPS: RM 108 DESK	9	10	RECEPS: 108 BACK WALL	20/1	0.72	10
11	0.90	20/1	RECEPS: RMS 105,100, EXTERIOR	11	12	RECEPS: EWC (GFI BREAKER)	20/1	0.50	12
13	0.72	20/1	RECEPS: RMS 107,106	13	14	RECEPS: REFRIGERATOR	20/1	0.50	14
15	0.36	20/1	RECEPS: RM 111	15	16	RECEPS: RM 111	20/1	0.54	16
17	0.50	20/1	MICROWAVE	17	18	RECEPS: HAND DRYER 107	20/1	0.50	18
19	0.50	20/1	RECEPS: HAND DRYER RM 106	19	20	RECEPS: RM 115	20/1	0.90	20
21	1.08	20/1	RECEPS: RM 111 WORK	21	22	RECEPS: COPIER	20/1	0.50	22
23	0.18	20/1	RECEPS: RM 111	23	24	RECEPS: JUNCTION BOX	20/1	0.50	24
25	0.36	20/1	RECEPS: IT RM 112	25	26	RECEPS: IT RM	20/1	0.36	26
27	0.72	20/1	RECEPS: EXTERIOR RMS 111,121	27	28	RECEPS: OUTDOOR	20/1	0.54	28
29	0.36	20/1	RECEPS: MEZZANINE	29	30	SPARE	20/1		30
	10.18		:TOTAL					8.80	



1 POWER RISER
E-701 NO SCALE.



2 SYSTEM GROUNDING DETAIL
E-701 NO SCALE.

SHEET INFORMATION

KEY PLAN

REVISIONS

REV. #:	DESCRIPTION:	DATE:

PROJECT STATUS

JOB NUMBER: 16-1043
ISSUE DATE: 10 APRIL 2018
SCALE:
SHEET TITLE: AS INDICATED

PANEL SCHEDULES, POWER RISER
AND WIRING DIGRAMS

SHEET NUMBER:

E701