

Additions and Alterations to: Cromwell Belden Public Library

39 West Street, Cromwell, CT
06416



ISSUED FOR BID



SILVER / PETRUCELLI + ASSOCIATES

Architects / Engineers / Interior Designers

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










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JUL 17, 2018




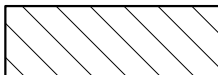

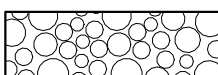

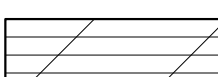

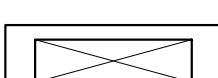
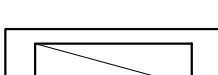

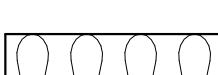
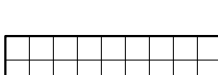
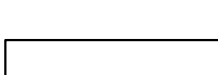
ABBREVIATIONS

A.C.T.	ACOUSTICAL, CEILING TILE
ADJ.	ADJUSTABLE
ALUM.	ALUMINUM
A.B.	ANCHOR BOLT
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
A.C.P.	ASBESTOS CEMENT PIPE
ASPH.	ASPHALT
AVG.	AVERAGE
BSMT.	BASEMENT
BRG.	BEARINGS
BT.	BITUMINOUS
BLK.	BLOCK
BD.	BOARD
B.S.	BOTH SIDES
BRK.	BROCK
BLDG.	BUILDING
C.I.	CAST IRON
C.I.P.	CAST IN PLACE CONCRETE
C.B.S.B.	CATCH BASIN
C.B.R.	CATCH BASIN TO BE REMOVED
CLG.	CEILING
C.	CENTER LINE
C.B.D.	CHALK BOARD
C.O.	CLEAN OUT
COL.	COLUMN
CONC.	CONCRETE
C.M.U.	CONCRETE MASONRY UNIT
CONF.	CONFERENCE
CONT.	CONTINUOUS, CONTINUE
CONTR.	CONTRACTOR
C.J.	CONTROL JOINT
C.G.	CURT CUT
DET.	DETAIL
D.A.	DAMETER
DM.	DIMENSION
DR.	DOOR
DN.	DOWN
DWG.	DRAWING
EA.	EACH
E.F. / E.W.	EACH FACE / EACH WAY
ED.	EDUCATION
E / ELEC.	ELECTRICAL
EL. / ELEV.	ELEVATION
EMER.	EMERGENCY
ENCL.	ENCLOSURE
ENT.	ENTRANCE
EP.	EPOXY PAINT
EQ.	EQUAL
EXAM.	EXAMINATION
EXIST.	EXISTING
EXP.	EXPANSION
EXJ.	EXPANSION JOINT
EXT.	EXTERIOR
F.S.	FAR SIDE
FNH.	FINISH, FINISHED
F.F.	FINISHED FLOOR
FL.	FLOOR
FL.	FLOOR
F.P.	FOLDING PARTITION
FT.	FOOT
FTG.	FOOTING
FDN.	FOUNDATION
G.	GAS
GA.	GAUGE
GEN.	GENERAL
G.C.	GENERAL CONTRACTOR
GYP.	GYPSUM
GYP. BD.	GYPSUM BOARD
H.C.	HANDICAPPED
HDWE.	HARDWARE
HED.	HEADED
HGT.	HEIGHT
H.P.	HIGH POINT
H.M.	HOLLOW METAL
HORZ.	HORIZONTAL, HORIZONTALLY
H.B.	HOSE BIB
HR.	HOUR
HYD.	HYDRANT
INSUL.	INSULATION, INSULATED
INT.	INTERIOR
INV.	INVERTED
JAN.	JANITOR
K.P.	KICK PLATE
LAM.	LAMINATE
LF.	LINEAR FOOT
LG.	LONG
LCC.	LOCATION
LP.	LOW POINT
L.	LIGHTING
M.H.	MANHOLE
MAS.	MASONRY
M.O.	MASONRY OPENING
MAX.	MAXIMUM
MECH.	METHEGAL
MIN.	MINIMUM
M.	MINUTE
MISC.	MISCELLANEOUS
MTD.	MOUNTED
N.S.	NEAR SIDE
NOM.	NOMINAL
N.A.	NOT APPLICABLE
N.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO.	NUMBER
OCC.	OCCUPANT
O.C.	ON CENTER
OPENG.	OPENING
O.D.	OUTSIDE DIMENSION
PTD.	PAINTED
P.C.B.	PAINTED CONCRETE BLOCK
P.S.B.	PAINTED GYPSUM BOARD
PL.	PLATE
PLUMB.	PLUMBING
PREP.	PREPARATION, PREPARE
P.T.	PRESSURE TREATED
PROJ. MAN	PROJECT MANUAL
P.V.C.	POLYVINYL CHLORIDE
RAD.	RADIUS
R.C.P.	REINFORCED CONCRETE PIPE
REF.	REFLECTED CEILINGS PLAN
REIN.	REINFORCEMENT
REQD.	REQUIRED
R.	RISER
R.D.	ROOF DRAIN
R.H.	ROOF HATCH
R.L.	ROOF LEADER
RM.	ROOM
SAN.	SANITARY
SCHED.	SCHEDULE
S.C.	SEALED CONCRETE
SECT.	SECTION
S.W.	SHEAR WALL
S.W.F.	SHEAR WALL FOOTING
S.	SIMILAR
S.O.G.	SLAB ON GRADE
SPEC.	SPECIFICATIONS
SQ.	SQUARE
SQ. FT.	SQUARE FEET
S.F.	STEEL
S.F.	STEP FOOTING
S.	STORY
STR.	STRUCTURAL
SUSP.	SUSPENDED, SUSPENSION

SYMBOL LEGEND

	ROOM NUMBER		SECTION / DETAIL DRAWING NUMBER
	DOOR NUMBER		WALL SECTION DRAWING NUMBER
	WINDOW NUMBER		ELEVATION DRAWING NUMBER
	DETAIL NUMBER DRAWING NUMBER		REFERENCE POINT
	CONSTRUCTION NOTE		WALL TYPE
			REVISION MARK

GRAPHIC LEGEND

	CONCRETE
	CONCRETE MASONRY UNITS
	BRICK
	STONE
	METALS
	COMPACTED GRAVEL
	EARTH
	PLYWOOD
	ACOUSTICAL TILE
	WOOD FRAMING - THROUGH MEMBER
	WOOD FRAMING - INTERRUPTED MEMBER
	FINISHED WOOD
	BATT INSULATION
	RIGID INSULATION
	GYPSUM BOARD

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS PRIOR TO FABRICATION, FINISHING, AND INSTALLATION OF ANY MATERIALS, EQUIPMENT AND WORK.
2. ALL MATERIALS & EQUIPMENT SHOWN ARE NEW TO BE PROVIDED BY CONTRACTOR UNLESS OTHERWISE NOTED.
3. ALL EXISTING UTILITIES & EQUIPMENT LOCATIONS ARE APPROXIMATE - CONTRACTOR SHALL FIELD VERIFY/AND/OR COORDINATE EXACT LOCATIONS.
4. CONTRACTOR ASSUMES ALL RESPONSIBILITY DURING CONSTRUCTION TO PROTECT MATERIALS AND EQUIPMENT, AND ALL DAMAGED ITEMS & EQUIPMENT DURING CONSTRUCTION SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
5. ALL BATED DOORS & DOORS FORMING A CORRIDOR SHALL BE KEPT POSITIVELY LOCKED AT ALL TIMES UNLESS OTHERWISE INDICATED ON THE DOOR SCHEDULE.
6. ALL DOORS LEADING TO HAZARDOUS AREAS SHALL HAVE TACTILE WARNING.
7. ALL DOORS EXTING 100 PERSONS OR MORE SHALL HAVE PANIC EXIT DEVICES.
8. ALL HANDICAP ACCESSIBLE DOOR HARDWARE SHALL BE INSTALLED TO COMPLY WITH ADA AND ALL OTHER APPLICABLE CODES.
9. ALL NEW EXPOSED/VISIBLE DECKING, BEAMS, COLUMN JOISTS AND OTHER STRUCTURAL COMPONENTS SHALL BE PAINTED UNLESS OTHERWISE NOTED.
10. IF A NOTE IS FOUND ON ARCHITECTURAL DRAWINGS READING - "SEE STRUCTURAL DRAWINGS" - AND SIZE AND LOCATION OF MEMBER/ITEM IS NOT SHOWN, THE CONTRACTOR SHALL CONTACT THE ARCHITECT TO REQUEST MISSING INFORMATION. THESE ITEMS SHALL BE PART OF THE BASE BID AND NOT AN ADDITIONAL CONTRACTOR SHALL REVIEW/STUDY IN WRITING BY THE ARCHITECT, DRAWINGS PRIOR TO BIDDING.
11. ALL CONTRACTORS SHALL REVIEW DRAWINGS AND PROJECT MANUAL. IF THERE IS A DISCREPANCY BETWEEN THE TWO OR ANY OTHER PARTS OF THE DOCUMENTS, THE HIGHER VALUE (IN DOLLARS) SHALL PREVAIL AS THE SCOPE OF WORK. THE CONTRACTOR SHALL REVIEW/STUDY IN WRITING BY THE ARCHITECT DURING THE BIDDING PERIOD.

LIST OF DRAWINGS

VOLUME 1

INFORMATION AND CODE DRAWINGS

VOLUME 1	COVER SHEET
A001	GENERAL INFORMATION AND DRAWINGS LIST
A002	BUILDING CODE INFORMATION
A003	BUILDING CODE PLANS
PH1	MAIN FLOOR CODE PLAN DIVIDER CLOSED PHASING PLANS

CIVIL DRAWINGS

C 1.0	EROSION & SEDIMENTATION CONTROL PLAN
C 2.0	SITE DECONTAMINATION PLAN
C 3.0	LAYOUT & MATERIALS PLAN
C 4.0	GRADING & DRAINAGE PLAN
C 4.1	DETAILS
L 1.0	PLANTING PLAN

ARCHITECTURAL DRAWINGS	
A020	EXISTING MAIN LEVEL PLAN
A030	MAIN LEVEL DEPOSITION PLAN
A000	MAIN LEVEL FLOOR PLAN
A100	ROOF PLANS
A150	ROOF DETAILS
A180	ENLARGED PLANS AND ELEVATIONS PLAN DETAILS
A190	MISCELLANEOUS DETAILS
A200	MAIN LEVEL REFLECTED CEILING PLAN
A250	CEILING DETAILS
A280	FINISH & FLOOR PATTERN PLAN
A300	OVERALL EXTERIOR ELEVATIONS
A350	BUILDING SECTIONS
A400	WALL SECTIONS
A501	WALL SECTIONS
A510	SECTION DETAILS
A551	SECTION DETAILS
A552	SECTION DETAILS
A600	WINDOW ELEVATIONS AND DETAILS
A700	INTERIOR ELEVATIONS
A710	INTERIOR ELEVATIONS
A720	INTERIOR ELEVATIONS
A750	CASEWORK DETAILS
A801	CASEWORK DETAILS
A902	CASEWORK DETAILS
A910	PARTITION TYPES
A920	DOOR & FRAME ELEVATIONS
A930	DOOR DETAILS
A940	SIGNAGE DETAILS
A950	FINISH SCHEDULE
A960	EXISTING FURNITURE PLAN
FFB2	FURNITURE PLAN

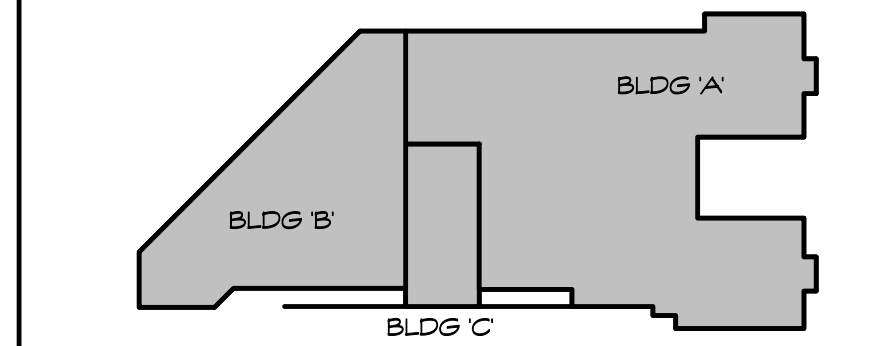
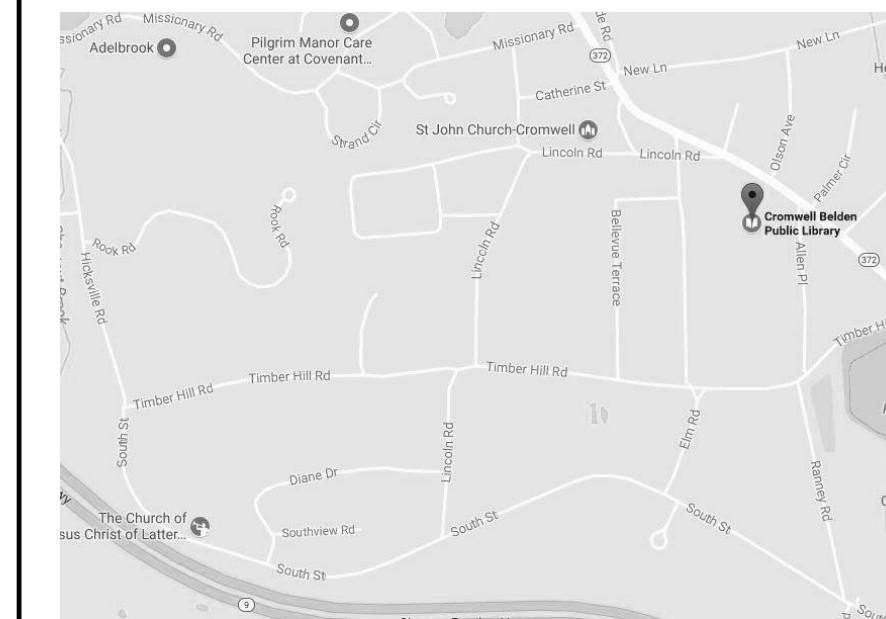
STRUCTURAL DRAWINGS	
S100	MAIN LEVEL AND FOUNDATION PLAN
S110	ROOF FRAMING PLAN
S200	COLUMN SCHEDULE
S300	FOUNDATION SECTIONS
S400	ROOF SECTIONS
S500	TYPICAL DETAILS
S600	GENERAL NOTES

PLUMBING DRAWINGS	
P001	PLUMBING COVER SHEET
P101	PLUMBING FLOOR PLAN
P111	PLUMBING ROOF PLAN
P801	PLUMBING DETAILS
P901	PLUMBING SCHEDULES

MECHANICAL DRAWINGS	
M000	MECHANICAL GENERAL NOTES
MD101	MECHANICAL DEMOLITION
M101	MECHANICAL PLAN
M301	MECHANICAL SECTIONS
M901	MECHANICAL SCHEDULES AND GENERAL NOTES

ELECTRICAL DRAWINGS

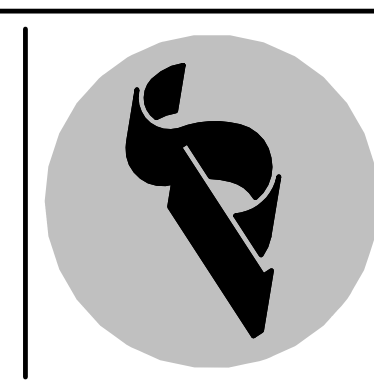
ED-1	ELECTRICAL POWER PART PLANS - DEMOLITION
ED-2	ELECTRICAL LIGHTING PART PLAN - DEMOLITION
E-1	ELECTRICAL POWER PART PLANS - NEW WORK
E-2	ELECTRICAL LIGHTING PART PLAN - NEW WORK
E-3	POWER ONE LINE AND FIRE ALARM RISER DIAGRAM
E-4	ELECTRICAL DETAILS
E-5	ELECTRICAL DETAILS
E-6	ELECTRICAL PANELBOARD SCHEDULES
E-7	ELECTRICAL SCHEDULES
E-8	ELECTRICAL GEN/NOTES AND LEGEND



Date: JUL 17, 2018
Scale: 1" = 1'-0"
Drawn By: A001
Author:
Project Number: 17.025

Project Title:

TOWN OF CROMWELL
CROMWELL BELDEN PUBLIC LIBRARY
39 WEST STREET
CROMWELL, CT 06416



SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers

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Drawing Title:	GENERAL INFORMATION AND DRAWING LIST
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Drawing Title:	Date:	Drawing Number:
GENERAL INFORMATION AND DRAWING LIST	JUL 17, 2016 Scale: 1" = 1'-0" Drawn By: Author: Project Number: 17.025	A001

CODE INFORMATION - BUILDING 'A' (ORIGINAL BLDG)

DATE OF ORIGINAL CONSTRUCTION	1901
DATE OF ADDITIONS	1985
DATE OF PROPOSED ADDITION	-

1. GROUP CLASSIFICATION (Chapter 3)

(Primary)	B-BUSINESS/A3-ASSEMBLY
(Incidental)	-

2. CONSTRUCTION TYPE (Chapter 6)

Minimum Type Required	5 B
Actual Type Provided (existing)	3 B
(Proposed new)	-

3. BUILDING HEIGHT (Chapter 5, Table 503)

Allowable Height (story/feet)	3/55'-0"
Actual Height (story/feet)	3/42'-0"
(Stories Above Grade)	2 1/2

4. BUILDING AREA (Chapter 5)

1) Building Area (Lower Floor)

Existing construction	9,089	sq.ft.
New construction	-	sq.ft.
Total floor	9,089	sq.ft.

2) Building Area (Main Floor)

Existing construction	27,429	sq.ft.
New construction	-	sq.ft.
Total floor	27,429	sq.ft.

3) Building Area (Upper Floor)

Existing construction	9,452	sq.ft.
New construction	-	sq.ft.
Total floor	9,452	sq.ft.

4) Building Area (All Floors)

Existing construction	45,970	sq.ft.
New construction	-	sq.ft.
Total floor	45,970	sq.ft.

5. AREA MODIFICATIONS TO TABLE 503

Total Perimeter =	N/A	ft.	N/A	ft.	N/A	ft.	N/A	ft.
Open Perimeter =	N/A	ft.	N/A	ft.	N/A	ft.	N/A	ft.
	N		E		W		S	

Total Frontage (F) N/A ft. Perimeter (P) N/A ft.
(building perimeter which fronts on a public way or open space having 20 feet open min.)

Width of open space (W) = 30'

If=100[F/(P-0.25)]W/30

100[455 / 728 - 0.25] 30/30= N/A

% Frontage increase (If) = N/A

% of Allowable Tabular Area, At (table 503)	N/A	%
% of Increase for frontage, If (506.2)	N/A	%
% of Increase for automatic sprinklers, Is (506.3)	N/A	%
Total percentage factor	N/A	%
Conversion factor	N/A	
(Total percentage factor 100)	N/A	

6. CASE 1 - SINGLE OCCUPANCY OR NONSEPARATED USES (508.3 AND TABLE 503)

USE GROUP B

a) ALLOWABLE AREA per floor (Aa)

N/A	x	N/A	=	N/A	sq. ft.
(conversion factor)		(tabular area, Table 503)			

7. CASE 2 - MIXED OCCUPANCY SEPARATED USES (508.3.2) (Allowable Area 506.4) (NOT USED)

8. FIRE-RESISTANCE RATED REQUIREMENTS FOR BUILDING ELEMENTS (Table 601, See Code Plans for specific designations)

1 Structural frame: including columns, girders, trusses	0	Hr(s)
2 Bearing walls: Exterior (Table 602)	0/1	Hr(s)
Interior	0	Hr(s)
3 Nonbearing walls & partitions Exterior (Table 602)	0/1	Hr(s)
4 Nonbearing walls & partitions Interior	0	Hr(s)
5 Floor Construction (including supporting beams & joists)	0	Hr(s)
6 Roof Construction (including supporting beams & joists)	0	Hr(s)

9. OCCUPANCY LOAD

Design Total for 1st Floor	770
Total Exit Capacity for 1st Floor	1705
Design Total for 2nd Floor	N/A
Total Exit Capacity for 2nd Floor	N/A
Design Total for Building	N/A
Total Exit Capacity for Building	N/A

10. MODIFICATIONS

A) EXISTING / APPROVED: _____

11. ACCESSIBLE BUILDING

N/A	Designated
	Non Designated

12. MINIMUM PLUMBING FIXTURE COUNT (I.P.C. Chapter 4)

N/A

13. ENTIRE BUILDING SPRINKLERED

Yes	No
(X) LIMITED AREA SPRINKLER	No

14. THRESHOLD BUILDING CONDITIONS

Yes	No
	X

CODE INFORMATION - BUILDING 'B'

DATE OF ORIGINAL CONSTRUCTION	2018
DATE OF ADDITIONS	-
DATE OF PROPOSED ADDITION	-

1. GROUP CLASSIFICATION (Chapter 3)

(Primary)	A3 - ASSEMBLY
(Incidental)	-

2. CONSTRUCTION TYPE (Chapter 6)

Minimum Type Required	5 B
Actual Type Provided (existing)	3 B
(Proposed new)	-

3. BUILDING HEIGHT (Chapter 5)

Allowable Height (story/feet)	3/55'-0"
Actual Height (story/feet)	N/A
(Stories Above Grade)	1

4. BUILDING AREA (Chapter 5)

1) Building Area (Main Floor)

Existing construction	13,536	sq.ft.
New construction	0	sq.ft.
Total floor	13,536	sq.ft.

2) Building Area (all floors)

Existing construction	13,536	sq.ft.
New construction	0	sq.ft.
Total floors	13,536	sq.ft.

5. AREA MODIFICATIONS TO TABLE 503

Total Perimeter =	N/A	ft.	N/A	ft.	N/A	ft.	N/A	ft.
Open Perimeter =	N/A	ft.	N/A	ft.	N/A	ft.	N/A	ft.
	N		E		W		S	

Total Frontage (F) N/A ft. Perimeter (P) N/A ft.
(building perimeter which fronts on a public way or open space having 20 feet open min.)

Width of open space (W) = 30'

If=100[F/(P-0.25)]W/30

100[525 / 728 - 0.25] 30/30= N/A

% Frontage increase (If) = N/A

% of Allowable Tabular Area, At (table 503)	N/A	%
% of Increase for frontage, If (506.2)	N/A	%
% of Increase for automatic sprinklers, Is (506.3)	N/A	%
Total percentage factor	N/A	%
Conversion factor	N/A	
(Total percentage factor 100)	N/A	

6. CASE 1 - SINGLE OCCUPANCY OR NONSEPARATED USES (508.3 AND TABLE 503)

USE GROUPS B & A-3 (A-3 is most stringent)

a) ALLOWABLE AREA per floor (Aa)

N/A	x	N/A	=	N/A	sq. ft.
(conversion factor)		(tabular area, Table 503)			

7. CASE 2 - MIXED OCCUPANCY SEPARATED USES (508.4.2) (Allowable Area 506.4) (NOT USED)

8. FIRE-RESISTANCE RATED REQUIREMENTS FOR BUILDING ELEMENTS (Table 601, See Code Plans for specific designations)

1 Structural frame: including columns, girders, trusses	0	Hr(s)
2 Bearing walls: Exterior (Table 602)	0/1	Hr(s)
Interior	0	Hr(s)
3 Nonbearing walls & partitions Exterior (Table 602)	0/1	Hr(s)
4 Nonbearing walls & partitions Interior	0	Hr(s)
5 Floor Construction (including supporting beams & joists)	0	Hr(s)
6 Roof Construction (including supporting beams & joists)	0	Hr(s)

9. OCCUPANCY LOAD

Design Total for 1st Floor	160
Total Exit Capacity for 1st Floor	1,005
Design Total for Building	160
Total Exit Capacity for Building	1,005

10. MODIFICATIONS

N/A

11. ACCESSIBLE BUILDING

N/A	Designated
	Non Designated

12. MINIMUM PLUMBING FIXTURE COUNT (I.P.C. Chapter 4)

N/A

13. ENTIRE BUILDING SPRINKLERED

Yes	No
(X) LIMITED AREA SPRINKLER	X

14. THRESHOLD BUILDING CONDITIONS

Yes	No
	X

CODE INFORMATION - BUILDING 'C'

DATE OF ORIGINAL CONSTRUCTION	2018
DATE OF ADDITIONS	-
DATE OF PROPOSED ADDITION	-

1. GROUP CLASSIFICATION (Chapter 3)

(Primary)	A3 - ASSEMBLY
(Incidental)	-

2. CONSTRUCTION TYPE (Chapter 6)

Minimum Type Required	5 B
Actual Type Provided (existing)	-
(Proposed new)	3 B

3. BUILDING HEIGHT (Chapter 5)

Allowable Height (story/feet)	3/55'-0"
Actual Height (story/feet)	1/22'-6"
(Stories Above Grade)	1

4. BUILDING AREA (Chapter 5)

1) Building Area (1st floor)

Existing construction	0	sq.ft.
New construction	3,449	sq.ft.
Total floor	3,449	sq.ft.

2) Building Area (all floors)

Existing construction	0	sq.ft.
New construction	3,449	sq.ft.
Total floors	3,449	sq.ft.

5. AREA MODIFICATIONS TO TABLE 503

Total Perimeter =	90	ft.	41	ft.	41	ft.	90	ft.
Open Perimeter =	0	ft.	41	ft.	0	ft.	0	ft.
	N		E		W		S	

Total Frontage (F) 41 ft. Perimeter (P) 262 ft.
(building perimeter which fronts on a public way or open space having 20 feet open min.)

Width of open space (W) = 30'

If=100[F/(P-0.25)]W/30

100[525 / 728 - 0.25] 30/30= 15.64

% Frontage increase (If) = 15.6

% of Allowable Tabular Area, At (table 503)	100	%
% of Increase for frontage, If (506.2)	15.6	%
% of Increase for automatic sprinklers, Is (506.3)	0	%
Total percentage factor	115.6	%
Conversion factor	1.156	
(Total percentage factor 100)	1.156	

6. CASE 1 - SINGLE OCCUPANCY OR NONSEPARATED USES (508.3)

USE GROUPS B & A-3 (A-3 is most stringent)

a) ALLOWABLE AREA per floor (Aa)

1.156	x	9,500	=	10,982	sq. ft.
(conversion factor)		(tabular area, Table 503)			

b) Largest Building Area (1st fl.) 3,449 sq. ft.

c) ACTUAL BUILDING AREA

Lower Level (basement) 0 sq. ft.

First Floor Level 3,449 sq. ft.

Second Floor Level 0 sq. ft.

d) TOTAL FLOOR AREA (all stories) 3,449 sq. ft.

e) ALLOWABLE FLOOR AREA (all stories)

3,449	x	1	=	3,449
Allowable area per floor (Aa)		number of stories (maximum 3)		

7. CASE 2 - MIXED OCCUPANCY SEPARATED USES (508.4) (NOT USED)

8. FIRE-RESISTANCE RATED REQUIREMENTS FOR BUILDING ELEMENTS (Table 601, See Code Plans for specific designations)

1 Structural frame: including columns, girders, trusses	0	Hr(s)
2 Bearing walls: Exterior (Table 602)	0/1	Hr(s)
Interior	0	Hr(s)
3 Nonbearing walls & partitions Exterior (Table 602)	0/1	Hr(s)
4 Nonbearing walls & partitions Interior	0	Hr(s)
5 Floor Construction (including supporting beams & joists)	0	Hr(s)
6 Roof Construction (including supporting beams & joists)	0	Hr(s)

9. OCCUPANCY LOAD

Design Total for 1st Floor	258
Total Exit Capacity for 1st Floor	1,020
Design Total for Building	258
Total Exit Capacity for Building	1,020

10. MODIFICATIONS

The building will have structural elements which will require the use of meeting clips at the firewall should building 'C' collapse such that the firewall will remain standing per IBC 705.6

11. ACCESSIBLE BUILDING

X	Designated
	Non Designated

12. MINIMUM PLUMBING FIXTURE COUNT (I.P.C. Chapter 4)

BUILDING 'C' OCCUPANT LOAD: _____ (DESIGN LOAD = 255)

	Required	Provided
W/C Male	128/125	2 2
W/C Female	128/65	2 2
Lavs Male	128/200	1 2
Lavs Female	128/200	1 2
D/F	225/500	1 1

13. ENTIRE BUILDING SPRINKLERED

Yes	No
	X

14. THRESHOLD BUILDING CONDITIONS

Yes	No
	X

15. CODES TO WHICH THIS PROJECT WAS DESIGNED

State Building Code	2012 IBC/2016 CT Amendments
State Fire Code	2012 IFC/2016 CT Amendments
State Mechanical Code	2012 IMC/2016 CT Amendments
State Plumbing Code	2012 IPC/2016 CT Amendments
State Energy Conservation Code	2012 IEC/2016 CT Amendments
State Electrical Code	2014 NFPA 70/2016 CT Amend
State Health Code	most current
OSHA	most current
Section 504	current
ADA	2010
ANSI 117.1	2009

1. CLASSIFICATION OF OCCUPANCY

A-3

2. MINIMUM CONSTRUCTION REQUIRED

5 B

ACTUAL CONSTRUCTION PROVIDED

2 B

3. NOTIFICATION / ALARMS (EXISTING, TO BE UPDATED IN PHASE 2)

YES X NO

4. DETECTION (EXISTING, TO BE UPDATED IN PHASE 2)

YES X NO

5. EXTINGUISHMENT REQUIREMENTS (EXISTING, TO BE UPDATED IN PHASE 2)

YES X NO

MEANS OF EGRESS

MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT
IBC TABLE 1004.1.2

USE FLOOR AREA IN S.F. PER OCCUPANT

1. CLASSROOMS 20 S.F. NET

2. SHOPS & VOCATIONAL 50 S.F. NET

3. ASSEMBLY WITHOUT FIXED SEATS 7 S.F. NET

TABLES AND CHAIRS 15 S.F. NET

4. PLATFORMS 15 S.F. NET

5. LIBRARY READING ROOMS 50 S.F. NET

STACK AREA 100 S.F. GROSS

6. LOCKER ROOMS 50 S.F. GROSS

7. MECHANICAL AREAS 300 S.F. GROSS

8. STORAGE 300 S.F. GROSS

9. BUSINESS AREAS 100 S.F. GROSS

MAXIMUM LENGTH OF EXIT TRAVEL

1. I.B.C. TABLE 1016.2 250 feet



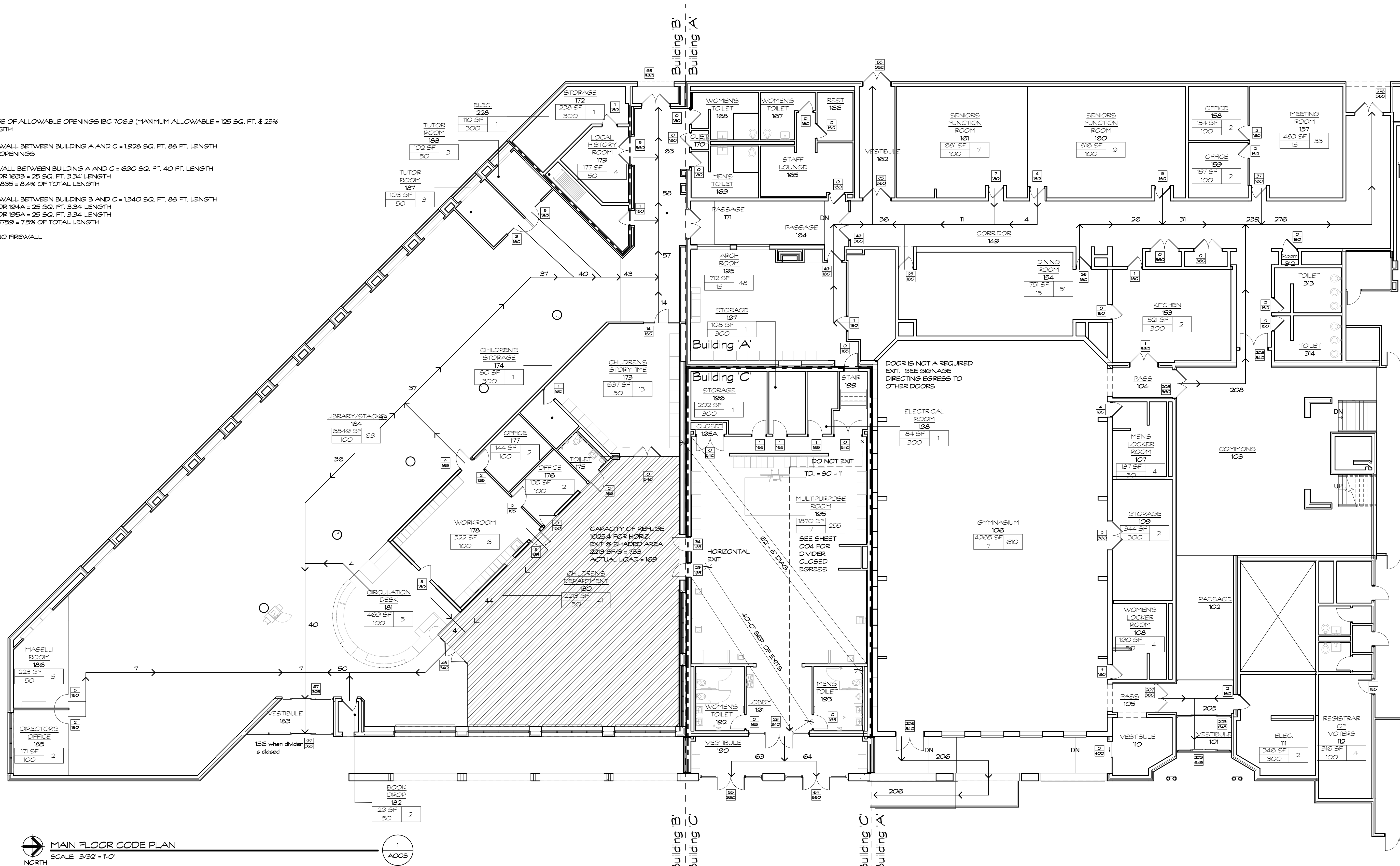
PERCENTAGE OF ALLOWABLE OPENINGS IBC 706.8 (MAXIMUM ALLOWABLE = 125 SQ. FT. & 25% OF THE LENGTH

NORTH FIREWALL BETWEEN BUILDING A AND C = 1,928 SQ. FT. 88 FT. LENGTH
-NO OPENINGS

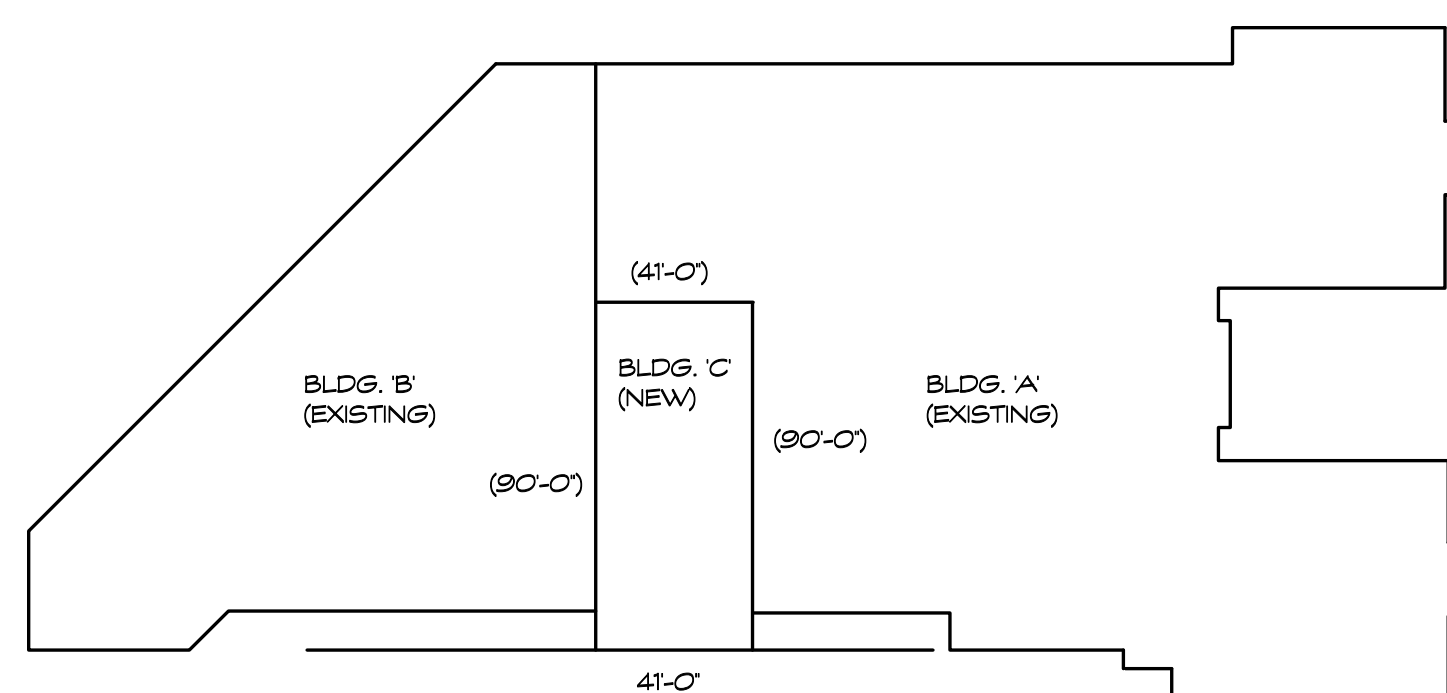
WEST FIREWALL BETWEEN BUILDING A AND C = 690 SQ. FT. 40 FT. LENGTH
-DOOR 183B = 25 SQ. FT. 3.34' LENGTH
3.34/40 = .0835 = 8.4% OF TOTAL LENGTH

SOUTH FIREWALL BETWEEN BUILDING B AND C = 1,340 SQ. FT. 88 FT. LENGTH
-DOOR 194A = 25 SQ. FT. 3.34' LENGTH
-DOOR 195A = 25 SQ. FT. 3.34' LENGTH
6.68/88 = .0759 = 7.5% OF TOTAL LENGTH

EAST HAS NO FIREWALL



MAIN FLOOR CODE PLAN
SCALE: 3/32" = 1'-0"

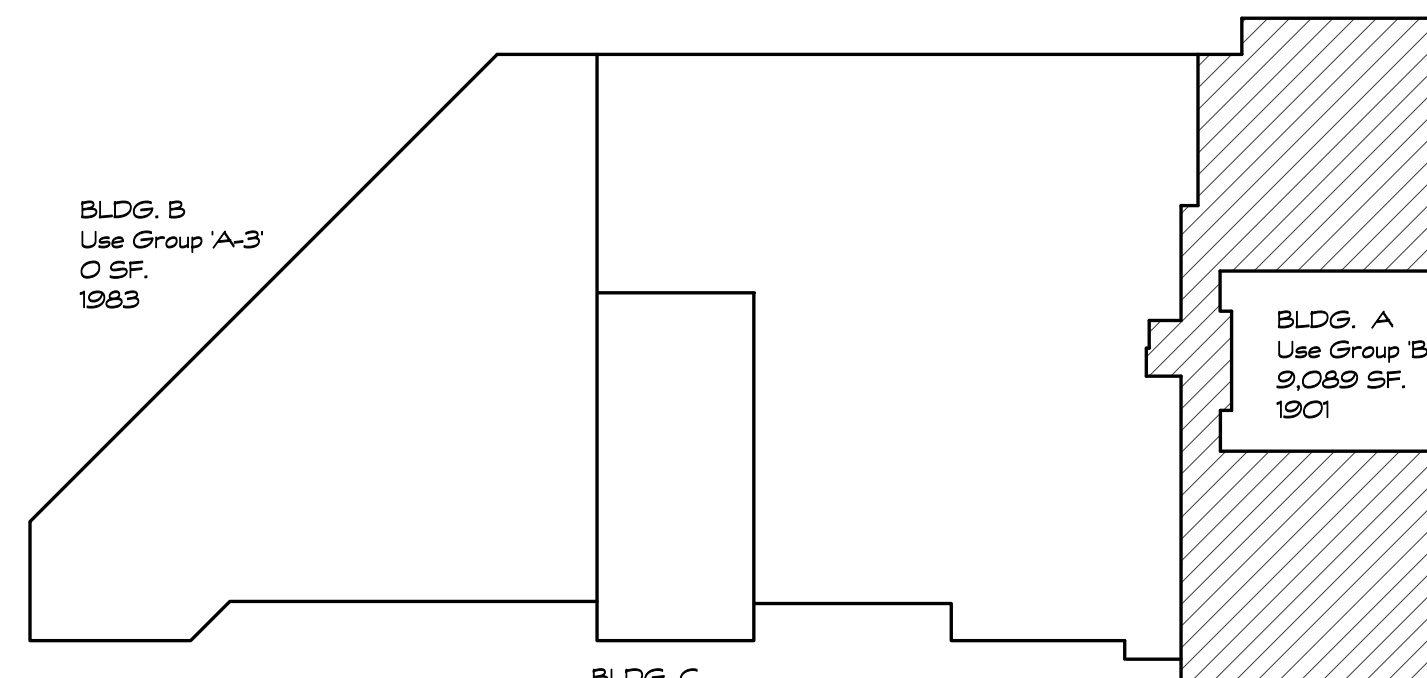


100'-8" - DIMENSION OF OPEN PERIMETER
ALONG ENTIRE LONGITUDINAL FACE

100'-8" - DIMENSION OF NON-OPEN PERIMETER
ALONG ENTIRE LONGITUDINAL FACE

NUMBERS FOR BUILDING 'A' AND BUILDING 'B' ARE NOT APPLICABLE BECAUSE THE BUILDING 'C' DOES NOT REDUCE
THE EXISTING OPEN PERIMETER

OPEN PERIMETER PLAN
SCALE: 1" = 50'-0"

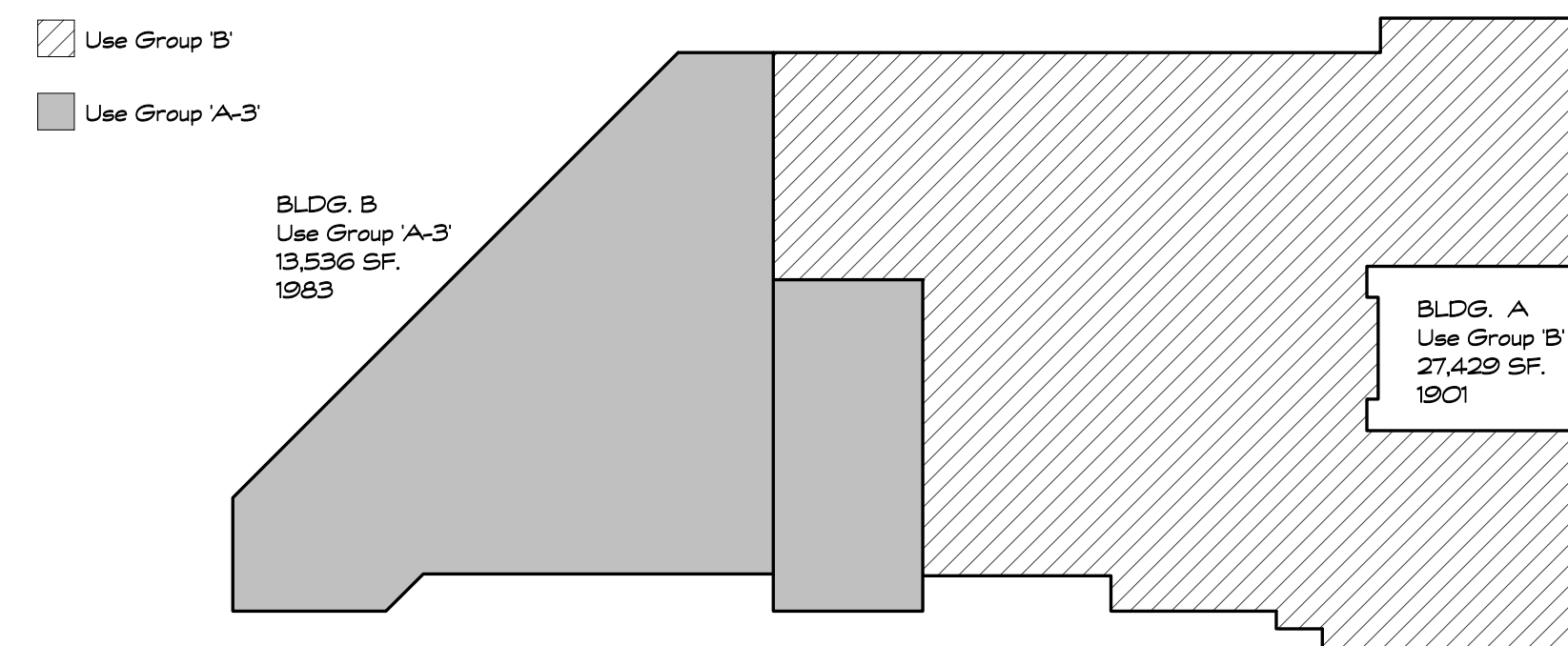


BLDG. B
Use Group 'A-3'
0 SF.
1983

BLDG. A
Use Group 'B'
9,089 SF.
1901

BLDG. C
Use Group 'A-3'
0 SF.
2018

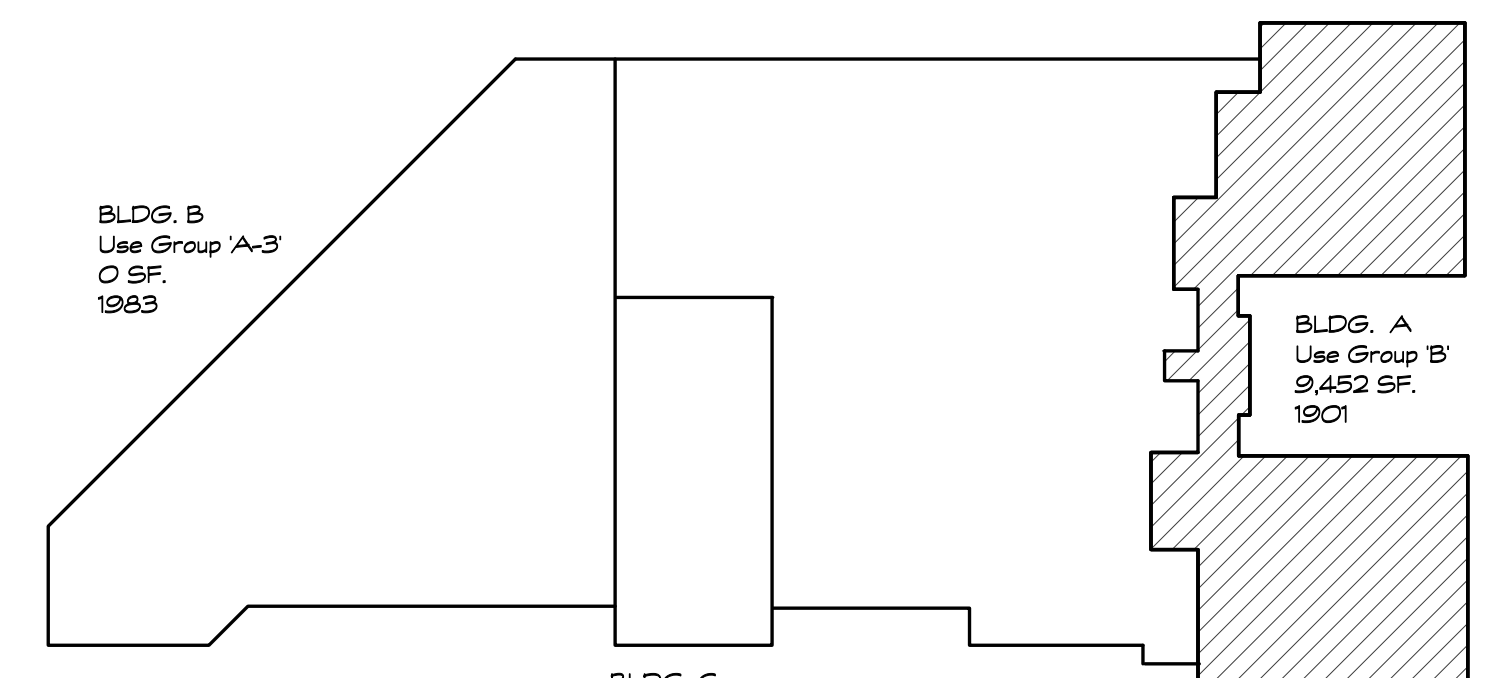
USE GROUP AND AREAS
SCALE: 1" = 50'-0"



BLDG. B
Use Group 'A-3'
13,538 SF.
1983

BLDG. A
Use Group 'B'
27,429 SF.
1901

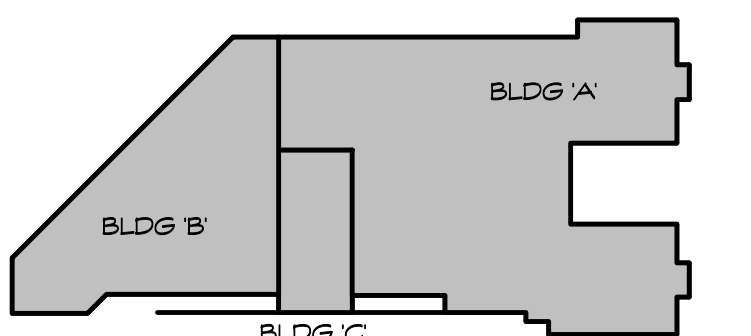
BLDG. C
Use Group 'A-3'
3,449 SF.
1901



BLDG. B
Use Group 'A-3'
0 SF.
1983

BLDG. A
Use Group 'B'
9,452 SF.
1901

BLDG. C
Use Group 'A-3'
0 SF.
2018



KEY PLAN
NORTH

CODE LEGEND		
AREA IN SF	840	42
OCC. LOAD FACTOR	20	
ACTUAL EGRESS OCC. OF DOOR	42	EXIT CAPACITY
MAX. ALLOWABLE EGRESS OCC. OF DOOR	168	
C216 ROOM NUMBER		
1227	DIRECTION OF TRAVEL W/ ACCUMULATED OCC. LOAD	
TD 145	MAXIMUM TRAVEL DISTANCE FROM FURTHEST POINT	
198	COMMON PATH OF TRAVEL	
---	1 HOUR FIRE RATED WALL AND SMOKE BARRIER	
---	2 HOUR FIRE RATED WALL AND SMOKE BARRIER	
---	LOT LINE	
---	DENOTES ACCESSIBLE THRESHOLD 1/2" MAX STEP W/ BEVELED THRESHOLD OR 1/2" STEP W/OUT BEVELED THRESHOLD	
60.66	- DIMENSION OF OPEN PERIMETER ALONG ENTIRE LONGITUDINAL FACE	
(60.66)	- DIMENSION OF NON-OPEN PERIMETER ALONG ENTIRE LONGITUDINAL FACE	
⊗	INDICATES LOSS OF EXIT AS PER BC 1005.11 CT AMENDMENTS	



CODE LEGEND			
AREA IN SF	840	42	ROOM OCCUPANCY LOAD
OCC. LOAD FACTOR	20		
ACTUAL EGRESS OCC. OF DOOR	42		EXIT CAPACITY
MAX. ALLOWABLE EGRESS OCC. OF DOOR	168		
C216	ROOM NUMBER		
1227	DIRECTION OF TRAVEL W/ ACCUMULATED OCC. LOAD		
TD 145	MAXIMUM TRAVEL DISTANCE FROM FURTHEST POINT		
198	COMMON PATH OF TRAVEL		
---	1 HOUR FIRE RATED WALL AND SMOKE BARRIER		
---	2 HOUR FIRE WALL		
---	2 HOUR FIRE RATED WALL AND SMOKE BARRIER		
---	LOT LINE		
o-o	DENOTES ACCESSIBLE THRESHOLD 1/2" MAX STEP W/ BEVELED THRESHOLD OR 1/2" STEP W/OUT BEVELED THRESHOLD		
60.66	- DIMENSION OF OPEN PERIMETER ALONG ENTIRE LONGITUDINAL FACE		
(60.66)	- DIMENSION OF NON-OPEN PERIMETER ALONG ENTIRE LONGITUDINAL FACE		
⊗	INDICATES LOSS OF EXIT AS PER BC 1003.11 CT AMENDMENTS		

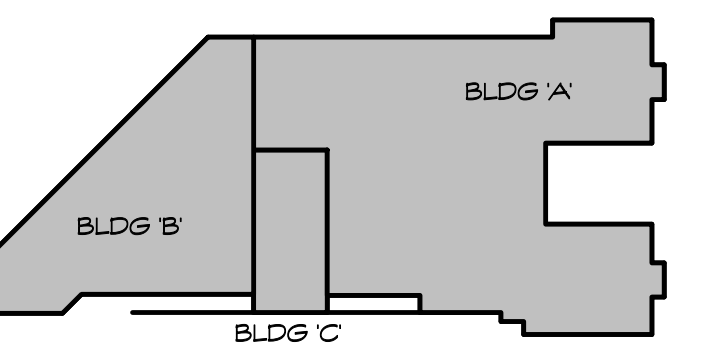
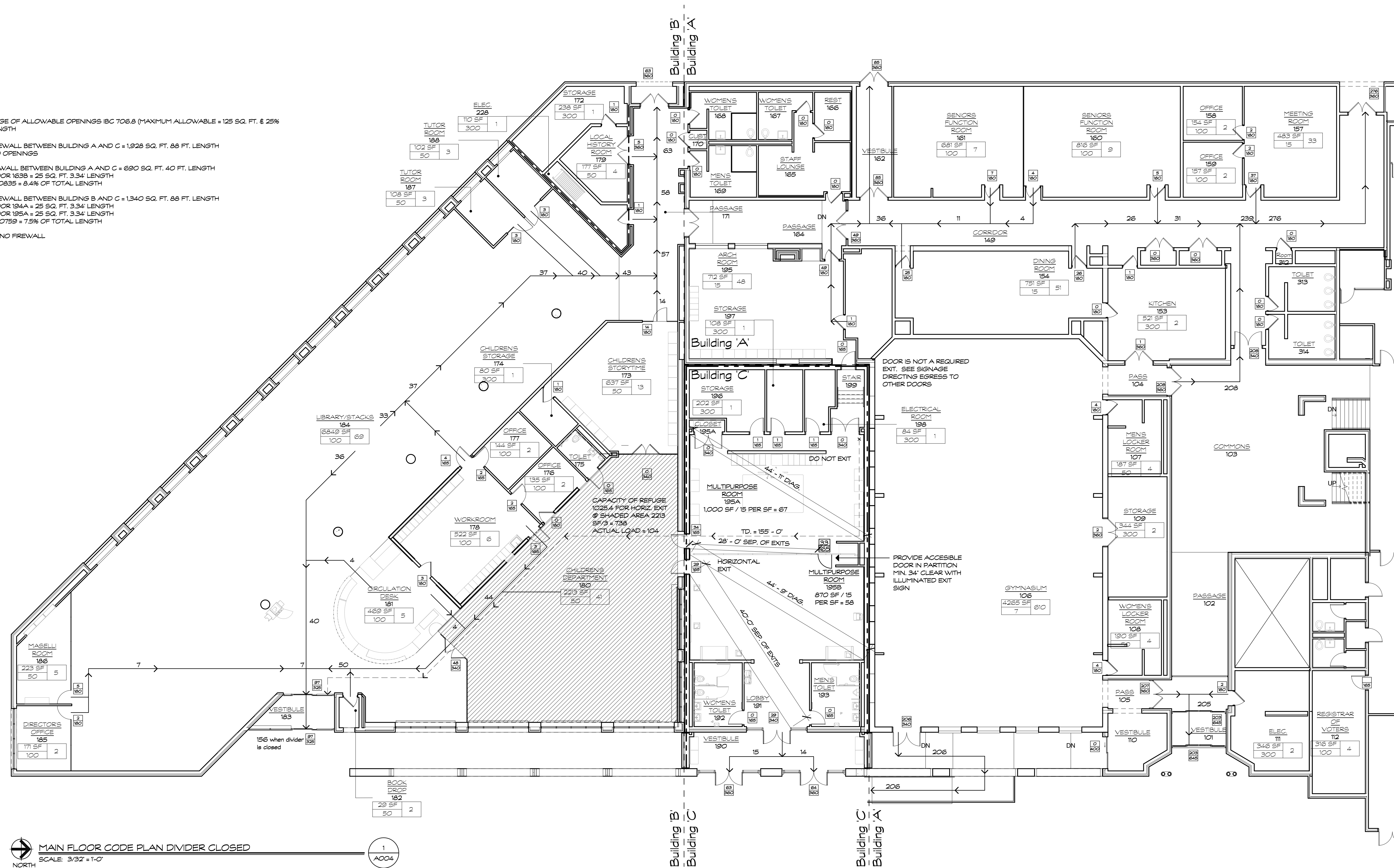
PERCENTAGE OF ALLOWABLE OPENINGS IBC 706.5 (MAXIMUM ALLOWABLE = 125 SQ. FT. & 25% OF THE LENGTH)

NORTH FIREWALL BETWEEN BUILDING A AND C = 1925 SQ. FT. 68 FT. LENGTH
-NO OPENINGS

WEST FIREWALL BETWEEN BUILDING A AND C = 690 SQ. FT. 40 FT. LENGTH
-DOOR 1635 = 25 SQ. FT. 3.34' LENGTH
3.34/40 = .0835 = 8.4% OF TOTAL LENGTH

SOUTH FIREWALL BETWEEN BUILDING B AND C = 1340 SQ. FT. 88 FT. LENGTH
-DOOR 1844 = 25 SQ. FT. 3.34' LENGTH
-DOOR 1954 = 25 SQ. FT. 3.34' LENGTH
6.68/88 = .0759 = 7.5% OF TOTAL LENGTH

EAST HAS NO FIREWALL



Project Title:
TOWN OF CROMWELL
CROMWELL BELDEN PUBLIC LIBRARY
39 WEST STREET
CROMWELL, CT 06416



SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers

3190 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
silverpetrucelli.com

Revision:	Description:	Date:	Revised By:

Drawing Title:
CODE PLAN WITH DIVIDER
CLOSED

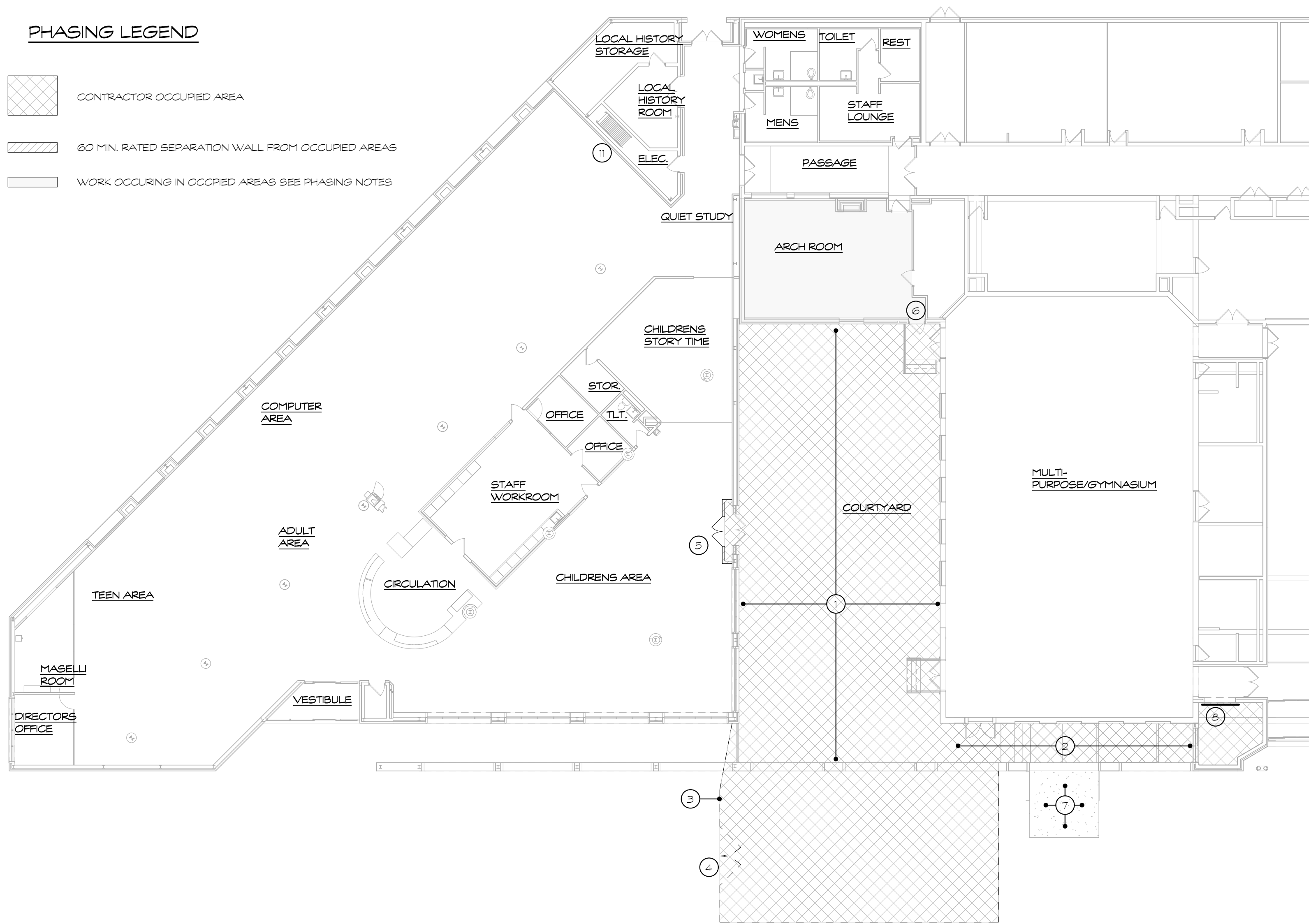
Date: JUL 17, 2018
Scale: As Indicated
Drawn By:
Author:
Project Number: 17.025
Drawing Number: A004

PHASING LEGEND

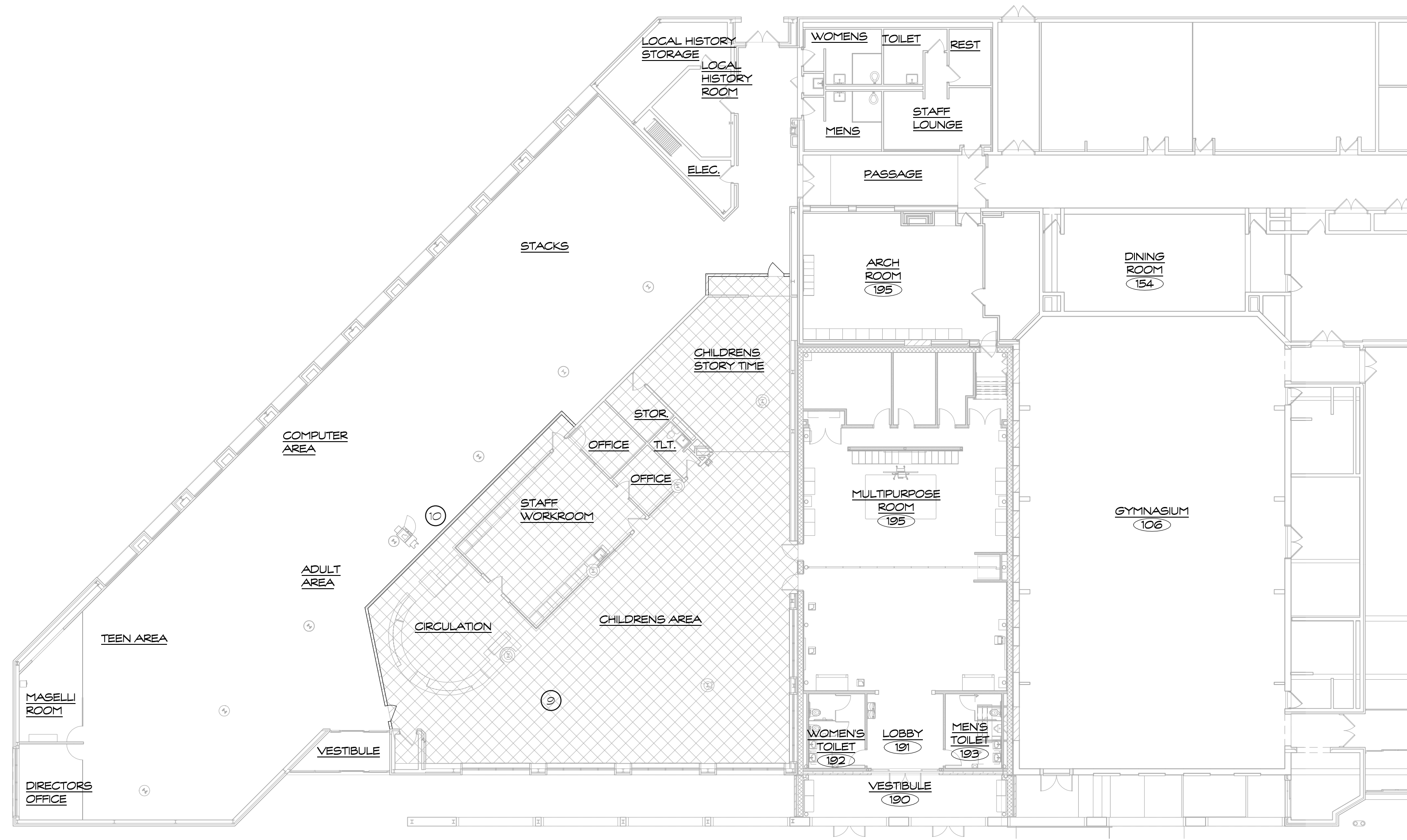
CONTRACTOR OCCUPIED AREA

60 MIN. RATED SEPARATION WALL FROM OCCUPIED AREAS

WORK OCCURRING IN OCCUPIED AREAS SEE PHASING NOTES



PHASE 1 ADDITION
SCALE: 1/8" = 1'-0"
NORTH



PHASE 2 OFFICES
SCALE: 1/8" = 1'-0"
NORTH



PHASE 3 STACKS
SCALE: 1/8" = 1'-0"
NORTH

CONSTRUCTION NOTE - PHASING	
1	REMOVE EXISTING ELEMENTS FROM COURTYARD SEE CIVIL DWGS. EGRESS TO BE MAINTAINED FROM GYM.
2	INSTALL DOOR AND RAMPS, ETC. PRIOR TO ENCLOSING COURTYARD
3	CONSTRUCTION FENCING PER BUILDING CODE AND LOCAL REQUIREMENTS COORDINATE EXACT LOCATION AND TRAFFIC CIRCULATION WITH LOCAL AHJ
4	12'-0" +/- CONSTRUCTION FENCING GATE
5	60 MIN RATED CONSTRUCTION GRADE HOLLOW METAL DOOR SEE SCHEDULE AND PROJ. IMA
6	EXISTING DOOR AS CONSTRUCTION BARRIER
7	PROVIDE PROCESS AND STONEDUST RAMP TO EXISTING GRADE TO BE MAINTAINED UNTIL FINAL PHASE
8	PROVIDE PLYWOOD TEMPORARY BARRIER TO DIRECT EGRESS
9	NOTE CARPET INSTALL TO INSIDE FACE OF NEW GLASS WALL THIS PHASE
10	PARTITIONS THIS AREA CAN STOP WITH A SLOPED CEILING ABOVE THE SOFFIT LINE AND NOT EXTEND TO ROOF. SOFFITS AND OTHER OBSTRUCTIONS EXIST REVIEW WITH AHJ AND V.I.P.
11	ACCESS TO ROOF FROM INTERIOR THIS LOCATION IS FROM WITHIN OWNER OCCUPIED SPACE
12	DEMOLITION, PARTITIONS, AND HEAVY CONSTRUCTION WORK FOR TUTOR ROOMS CAN BE COORDINATED IN ANY PHASE WITH A HOLIDAY OR LIBRARY CLOSING
13	APPROX. LOCATION OF CARPET SEAM FROM PHASE 2 TO PHASE 3 COORDINATE IN FIELD

PHASE 1 ADDITIONS AND RAMP TO GYMNASIUM (APPROX. 3 MONTHS 9/2018-12/2018)

- COMPLETE GYMNASIUM EXIT AND EGRESS RAMPS
- COMPLETE ARCH ROOM RENOVATIONS AND COURTYARD INFILL
- COMPLETE EXTERIOR SITE WORK AND FINAL RAMPS AND GRADING

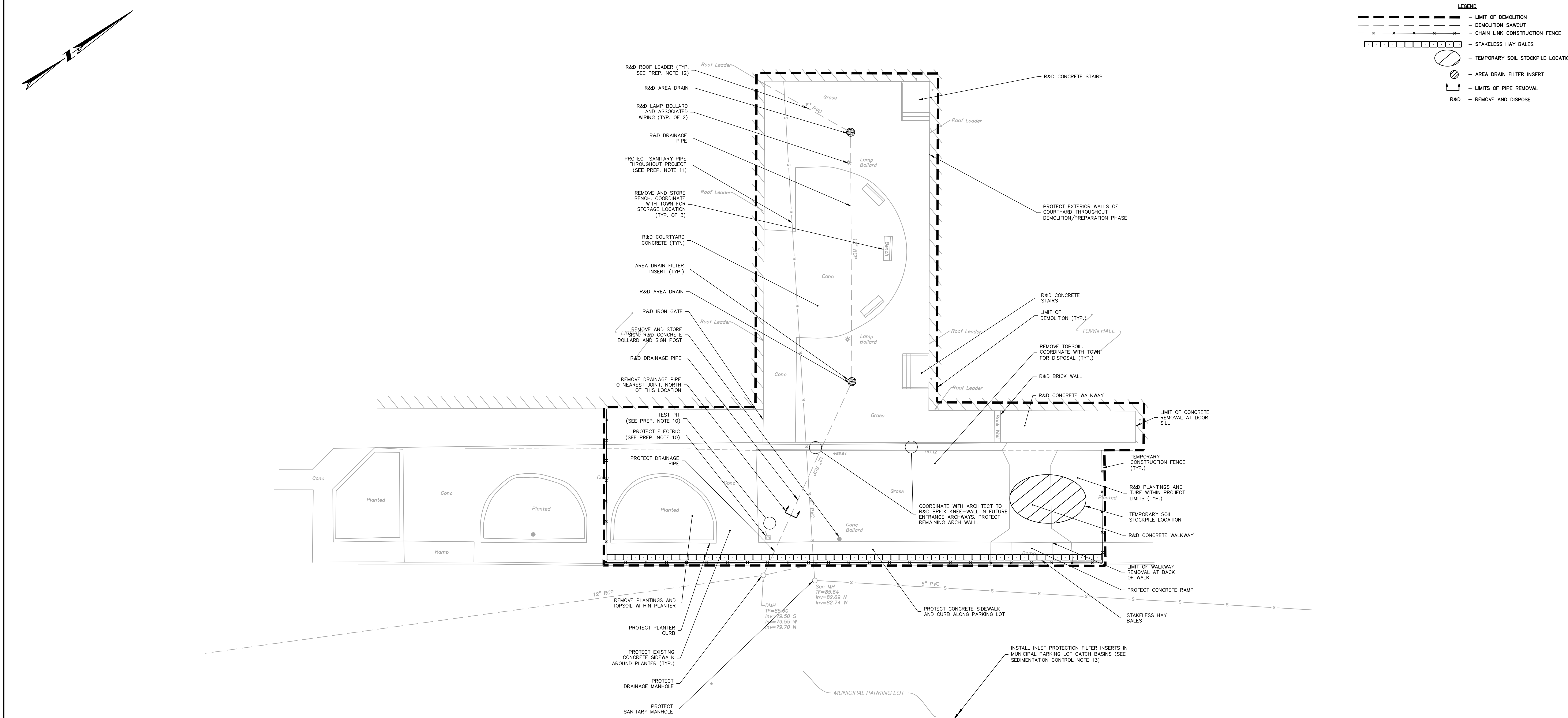
NOTE: OPERATIONS IN THE ARCH ROOM AND THE MULTI-PURPOSE GYMNASIUM ARE TO BE UNDERTAKEN WHILE SPACES ARE OCCUPIED. EXTRA SHIFT WORK, NIGHTS AND WEEKENDS SHOULD BE ASSUMED AND CLOSE COORDINATION WITH THE OWNER IS REQUIRED FOR SCHEDULED EVENTS. COORDINATION WITH TOWN OFFICIALS IS ALSO REQUIRED FOR THE TIMING AND BLOCKING OF EXISTING EGRESS FROM THE GYMNASIUM IN CONJUNCTION WITH THE NEW WORK.

PHASE 2 OFFICES AND CIRCULATION (APPROXIMATELY 4-6 WEEKS 12/2018-1/2019)

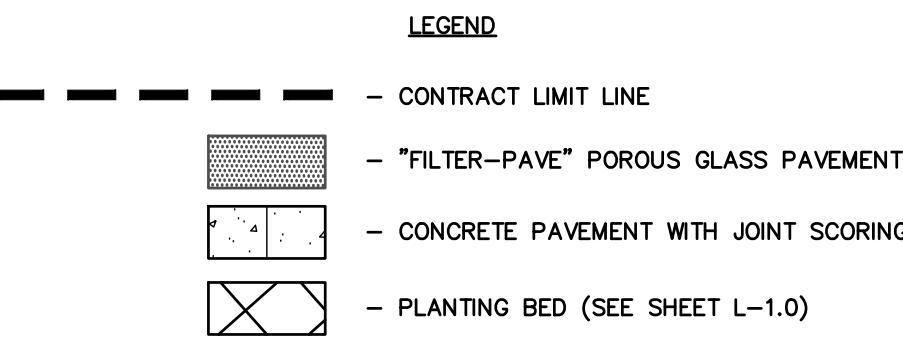
- REMOVE EXISTING AND BUILD NEW TEMPORARY PARTITIONS
- DEMOLITION AND NEW WALLS AND INTERIOR AND GLASS PARTITIONS
- PLUMBING FIXTURES FOR RENOVATED TOILET
- FINISHES, CEILINGS, AND CIRCULATION DESK

PHASE 3 STACK AREA & TUTOR ROOMS (APPROXIMATELY 4 WEEKS 1/2018-2/2018)

- MOVE EXISTING STACKS AS REQUIRED FOR ELECTRICAL, CEILING REPLACEMENT, PAINTING, AND CARPET
- FURNITURE REPLACEMENT IN SHADED AREA
- PAINTING AND SUBSTANTIAL PROJECT COMPLETION



SITE PREPARATION NOTES:		SEDIMENTATION CONTROL NOTES:		SUGGESTED CONSTRUCTION SEQUENCE:		TEMPORARY E&S MEASURES MAINTENANCE SCHEDULE	
1. CONTRACTOR SHALL NOTIFY 'CALL BEFORE YOU DIG' (1-800-922-4455) AND VERIFY UTILITY MARK-OUT WITH THE OWNER PRIOR TO THE INITIATION OF ANY SITE DISTURBANCE.		1. DO NOT PROCEED WITH THE WORK UNTIL ALL E&S CONTROL MEASURES ARE IN-PLACE AND HAVE BEEN INSPECTED AND APPROVED BY THE ENGINEER.		1. CONDUCT A PRE-CONSTRUCTION MEETING WITH THE OWNER AND ENGINEER PRIOR TO ANY CONSTRUCTION ACTIVITY.			
2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFICATION OF THE LOCATION AND NATURE OF ALL SUBSURFACE UTILITIES AT THE PROJECT WHICH MAY BE AFFECTED BY THE WORK. COORDINATE WITH RESPECTIVE UTILITY OWNERS AND PERFORM VERIFICATION OF TYPE, LOCATION AND INVERTS AS REQUIRED.		2. THE MEASURES SPECIFIED HEREON ARE THE MINIMUM REQUIREMENTS FOR E&S CONTROL AND ARE SHOWN IN GENERAL SIZE AND LOCATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL E&S CONTROL MEASURES ARE CONFIGURED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION OF SOILS AND PREVENT THE TRANSPORT OF SEDIMENTS AND OTHER POLLUTANTS TO ANY RESOURCE AREAS. PROVIDE ADDITIONAL E&S MEASURES AS REQUIRED TO CONTROL EROSION AND SILTATION THROUGHOUT THE DURATION OF THE CONSTRUCTION AS CONDITIONS DICTATE AND/OR AS DIRECTED BY THE OWNER OR THE ENGINEER.		2. PLACE FILTER INSERTS IN EXISTING CATCH BASINS.			
3. THE LOCATIONS OF EXISTING SITE FEATURES AS SHOWN HAVE BEEN OBTAINED FROM MAPS, SURVEYS, FIELD INSPECTIONS, AND OTHER AVAILABLE INFORMATION. THEY MUST BE CONSIDERED APPROXIMATE BOTH TO LOCATION, SIZE, AND AS-BUILT CONDITION AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL FIELD CONDITIONS.		3. MONITOR AND INSPECT ALL E&S MEASURES IN AN ONGOING MANNER THROUGHOUT THE WORK AND TAKE CORRECTIVE MEASURES, AS REQUIRED, TO MINIMIZE EROSION OF SOILS AND PREVENT THE TRANSPORT OF SEDIMENTS AND OTHER POLLUTANTS TO ANY RESOURCE AREAS.		3. INSTALL PERIMETER E&S CONTROLS AND REQUEST PRE-CONSTRUCTION INSPECTION FROM THE ENGINEER.			
4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY AND ALL DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.		4. ANY EROSION AND SEDIMENTATION MEASURE IMPLEMENTED BEYOND THAT SHOWN HEREON SHALL CONFORM TO APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT'S 2002 'CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.'		4. FOLLOWING THE ENGINEER'S APPROVAL OF INSTALLED E&S CONTROLS, COMMENCE CONSTRUCTION OPERATIONS.			
5. IMPLEMENTING WORKER SAFETY AND/OR HEALTH PROTOCOLS THAT ADDRESS COMPLIANCE WITH RULES, LAWS, AND REGULATIONS PERTAINING TO CONSTRUCTION SAFETY AND/OR THE POTENTIAL AND/OR ACTUAL RISK OF EXPOSURE TO SITE-SPECIFIC PHYSICAL OR CHEMICAL HAZARDS IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.		5. ANY STOCKPILED MATERIAL SHALL BE SUBJECT TO EROSION CONTROL MEASURES THAT INCLUDE A MINIMUM OF SILT FENCE OR HAY BALE BARRIER. COVER STOCKPILES IF SIGNIFICANT RAINFALL IS PREDICTED.		5. AT THE CONCLUSION OF CONSTRUCTION, COMPLETE THE INSTALLATION OF POST-CONSTRUCTION SITE STABILIZATION MEASURES AS SHOWN ON THE DRAWINGS.			
6. PROTECT ALL IMPROVEMENTS NOT INCLUDED IN THE SCOPE OF SITE DEMOLITION. ANY EXISTING SITE ELEMENT WHICH IS DAMAGED SHALL BE REPAIRED OR REPLACED IN-KIND TO THE OWNER'S SATISFACTION.		6. PROVIDE TEMPORARY SEEDING WITH MULCH ON ALL EXPOSED SOIL AREAS WHERE WORK WILL BE SUSPENDED FOR LONGER THAN 30 DAYS. APPLY SEED AND MULCH WITHIN THE FIRST 7 DAYS OF SUSPENDING WORK. WHEN SEEDING IS NOT POSSIBLE DUE TO SEASONAL WEATHER CONDITIONS OR OTHER FACTORS, PROVIDE TEMPORARY STRUCTURAL SOIL PROTECTION SUCH AS MULCH, WOODCHIPS, EROSION CONTROL MATTING, OR COMPOST.		NOTE: THE CONTRACTOR MAY MODIFY THE SUGGESTED CONSTRUCTION SEQUENCE INDICATED ABOVE, PROVIDED A REVISED SEQUENCE IS SUBMITTED FOR REVIEW AND APPROVED BY THE OWNER AND ENGINEER.			
7. DURING SITE DEMOLITION AND PAVEMENT REMOVAL, PROTECT ALL ADJACENT CURBING, SIDEWALKS, RAMPS, ABOVE-GRADE AND BELOW-GRADE UTILITIES, DRAINAGE STRUCTURES, LIGHT BASES, AND OTHER IMPROVEMENTS POTENTIALLY AFFECTED BY THE WORK. CLEARLY DELINEATE THE LIMITS OF WORK AND MARK, BARRICADE, OR OTHERWISE IDENTIFY THOSE IMPROVEMENTS THAT ARE TO BE PROTECTED AND/OR AVOIDED.		7. NO RUNOFF SHALL BE ALLOWED TO ENTER ANY STORMWATER SYSTEM OR EXIT THE SITE PRIOR TO TREATMENT FOR SEDIMENT REMOVAL.					
8. PRIOR TO THE TERMINATION, ABANDONMENT, OR REMOVAL OF ANY UTILITY, VERIFY THAT APPLICABLE NOTIFICATIONS HAVE BEEN MADE TO THE UTILITY OWNER/OPERATOR AND THAT THE UTILITY HAS BEEN PROPERLY TERMINATED, CAPPED, OR PLUGGED AS REQUIRED.		8. THE CONTRACTOR SHALL MAINTAIN A CLEAN CONSTRUCTION SITE AND SHALL NOT ALLOW THE ACCUMULATION OF RUBBISH OR CONSTRUCTION DEBRIS. ALL TRASH SHALL BE CLEANED ON A DAILY BASIS AND THE SITE SHALL BE LEFT IN A NEAT CONDITION AT THE END OF EACH WORK DAY.					
9. ALL SURPLUS TOPSOIL BEYOND THAT QUANTITY REQUIRED FOR SITE RESTORATION SHALL BE REMOVED AND DELIVERED TO AN OFF-SITE LOCATION AS DIRECTED BY THE OWNER. SEE APPLICABLE SPECIFICATIONS.		9. TAKE ALL NECESSARY PRECAUTIONS TO AVOID THE SPILLAGE OF FUEL OR OTHER POLLUTANTS AND ADHERE TO ALL APPLICABLE POLICIES AND REGULATIONS RELATED TO SPILL PREVENTION, CONTROL, AND RESPONSE.					
10. PERFORM TEST PIT TO DETERMINE TYPE AND LOCATION OF WRING. UPON IDENTIFICATION, WRING RUN SHALL BE PROTECTED THROUGHOUT DURATION OF PROJECT.		10. FOR DUST CONTROL, PERIODICALLY MOISTEN EXPOSED SOIL SURFACES WITH WATER AND MAINTAIN ADEQUATE MOISTURE LEVELS.					
11. CONTRACTOR TO COORDINATE WITH ARCHITECT AND PLUMBING ENGINEER TO DETERMINE FUTURE BUILDING SANITARY TIE-IN LOCATION.		11. SWEEP ADJACENT PARKING AREA IF MUD OR SOIL IS TRACKED ON TO IT, OR AS DIRECTED BY THE ENGINEER.					
12. CONTRACTOR TO REMOVE ALL ROOF LEADER PIPING WITHIN INTERIOR PERIMETER OF COURTYARD. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MONITOR ALL RUNOFF AND PROVIDE DEWATERING IN THE EVENT THE COURTYARD BEGINS TO FLOOD FOLLOWING THE BUILDING ROOF LEADER PIPE REMOVAL.		12. DRAINAGE STRUCTURE FILTER INSERTS SHALL BE INSTALLED AND CLEANED/CHANGED PER THE MANUFACTURER'S RECOMMENDATIONS. UNITS SHALL BE INSTALLED COMPLETELY AROUND INLETS OF EXISTING AND PROPOSED DRAINAGE STRUCTURES SUCH THAT NO RUNOFF IS ALLOWED TO ENTER DRAINAGE SYSTEMS WITHOUT FILTERING THROUGH THE DEVICE.					
		13. INSTALL INLET PROTECTION FILTER INSERT IN DOWN-GRADE CATCH BASINS LOCATED IN MUNICIPAL PARKING AREA TRIBUTARY TO CONSTRUCTION AREA, MINIMUM OF 3.					
		14. TEMPORARY CONSTRUCTION WASHOUT AREA TO BE SELF CONTAINED AND REMOVABLE FROM THE SITE UPON PROJECT COMPLETION.					



-
- Architectural plan view of the entrance enlargement area. The plan shows two large, semi-circular openings, each with a diameter of 14.0 feet (indicated by a dimension line and the text "±14.0' (SEE NOTE 18)"). The openings are separated by a central wall. The overall width of the area is 17.0 feet, and the depth is 17.0 feet. The plan includes various structural details, such as walls, columns, and a central wall. The plan is labeled "ENTRANCE ENLARGEMENT AREA" and includes a scale of 1" = 5'.

 **BSC GROUP**
300 Winding Brook Drive
Glastonbury, Connecticut 06033
860 652 8227

Date: JULY 17, 2018

Drawing Number:

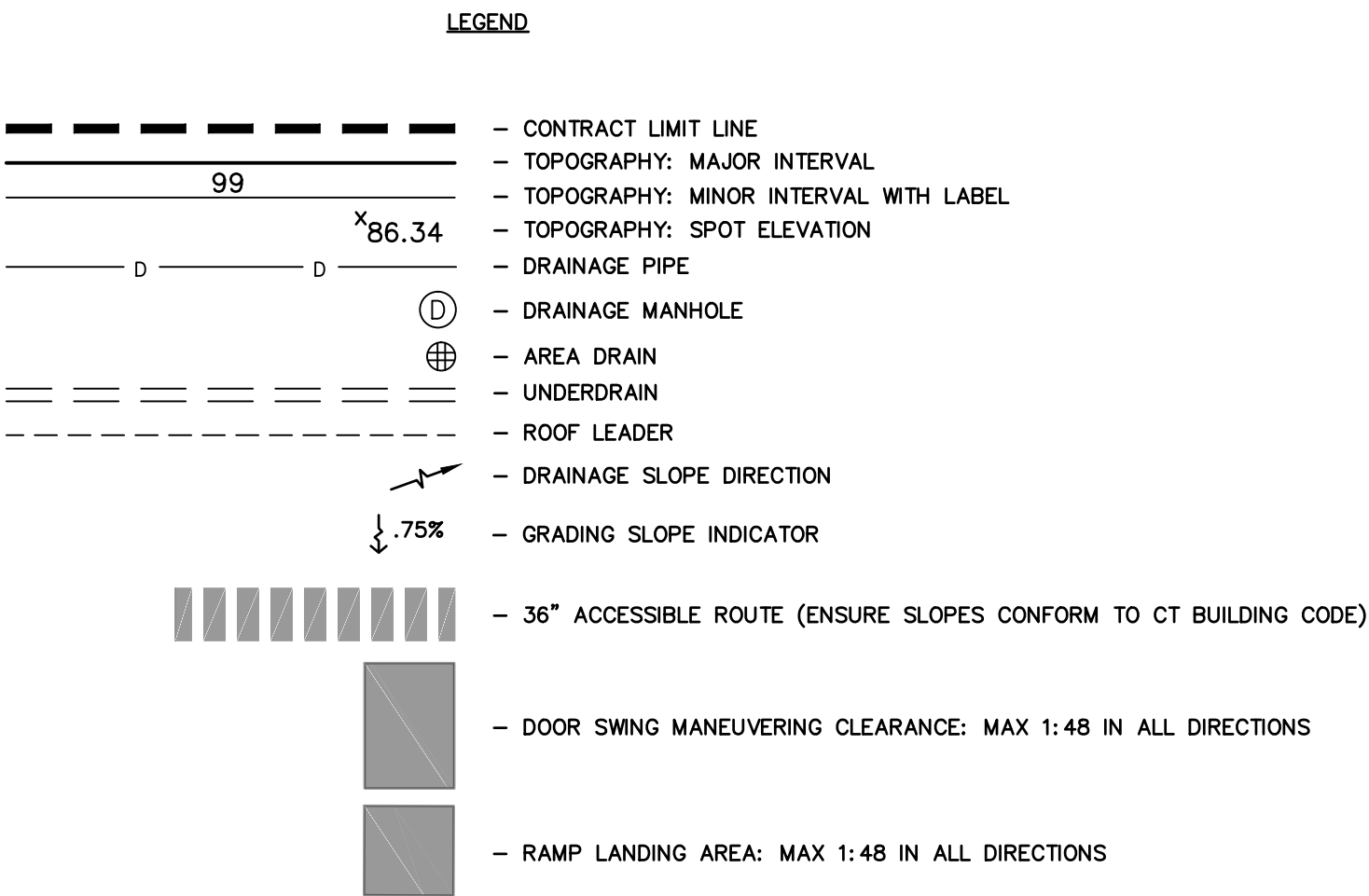
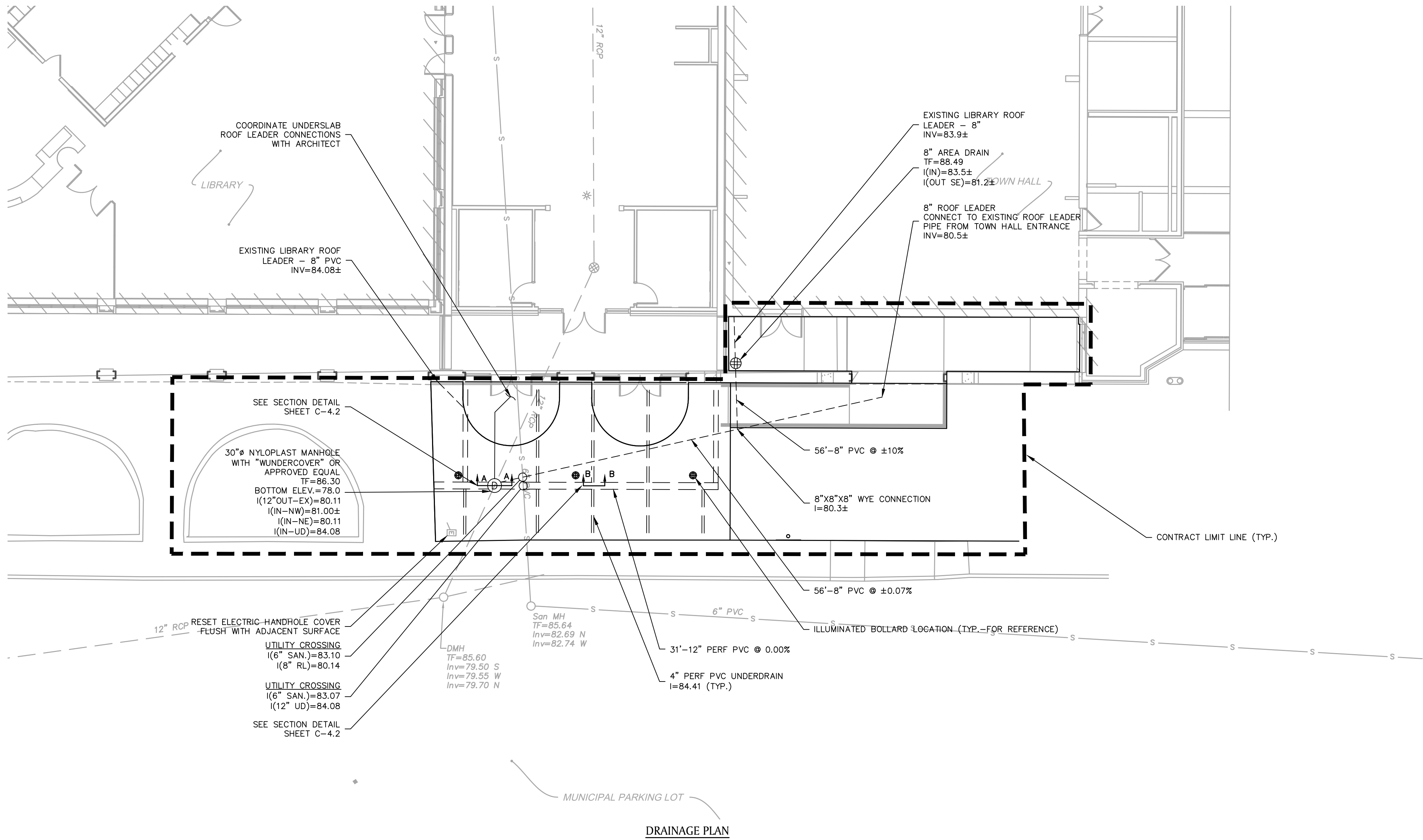
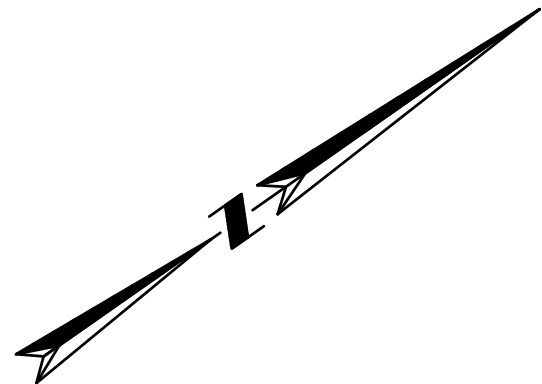
Scale: 1" = 10'

C-2.0

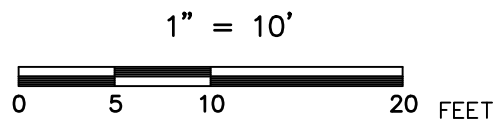
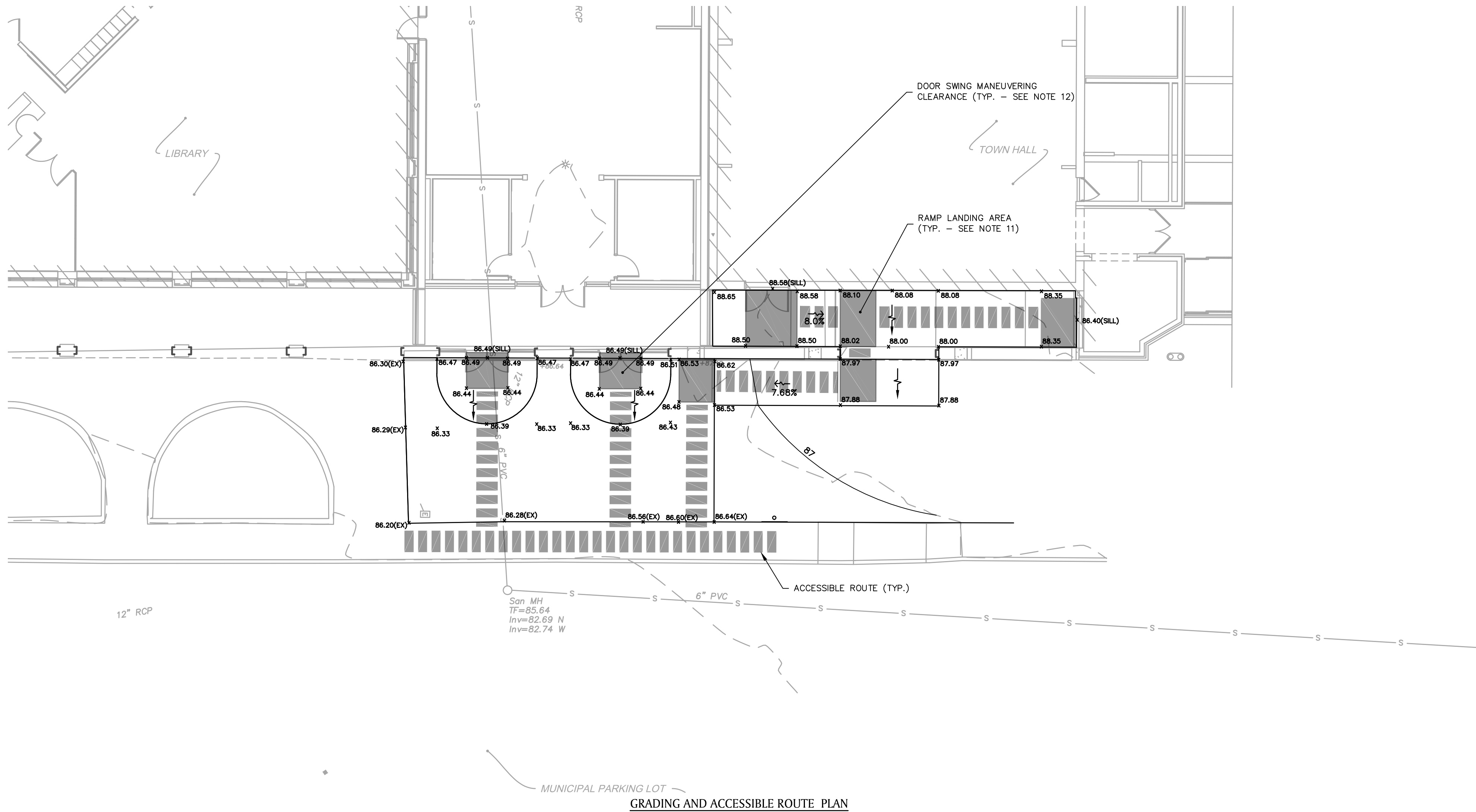
Drawn By:

Project Number: 17.025

C-2.0



- NOTES:
1. CONTRACTOR SHALL NOTIFY 'CALL BEFORE YOU DIG' (1-800-922-4455) AND VERIFY UTILITY MARK-OUT WITH THE OWNER PRIOR TO THE INITIATION OF ANY SITE DISTURBANCE.
 2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFICATION OF THE LOCATION AND NATURE OF ALL SUBSURFACE UTILITIES AT THE PROJECT WHICH MAY BE AFFECTED BY THE WORK. COORDINATE WITH RESPECTIVE UTILITY OWNERS AND PERFORM VERIFICATION OF TYPE, LOCATION AND DEPTHS AS REQUIRED.
 3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY AND ALL DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
 4. THE LOCATIONS OF EXISTING SITE FEATURES AS SHOWN HAVE BEEN OBTAINED FROM MAPS, SURVEYS, FIELD INSPECTIONS, AND OTHER AVAILABLE INFORMATION. THEY MUST BE CONSIDERED APPROXIMATE BOTH TO LOCATION, SIZE, AND AS-BUILT CONDITION AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL FIELD CONDITIONS.
 5. THE DIMENSIONS SHOWN ON THE PLANS, INCLUDING THE INTENDED DIMENSIONS OF THE WORK, MAY VARY FROM ACTUAL EXISTING CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASUREMENTS TO VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS AS WELL AS OTHER DIMENSIONS HE MAY DEEM APPROPRIATE TO FACILITATE THE COMPLETION OF THE WORK.
 6. ENGAGE A CONNECTICUT-LICENSED LAND SURVEYOR TO PERFORM LAND-SURVEYING SERVICES REQUIRED, INCLUDING, BUT NOT LIMITED TO VERIFICATION AND LAYOUT OF PROPOSED IMPROVEMENTS, DIMENSIONS, AND ELEVATIONS. REPORT DISCREPANCIES TO THE ENGINEER.
 7. UNLESS OTHERWISE INDICATED, ALL DISTURBED AREAS SHALL BE RESTORED WITH SIX (6) INCHES OF LOAM, SEED, FERTILIZED, AND MULCHED. PROVIDE ADDITIONAL EROSION CONTROLS AS REQUIRED.
 8. COMPLY WITH CONNECTICUT BUILDING CODE FOR ALL SITE CONSTRUCTION, INCLUDING HANDICAPPED ACCESSIBILITY.
 9. THE CROSS-SLOPE OF ANY SIDEWALK, WALKWAY, OR OTHER PEDESTRIAN SURFACE SHALL NOT BE STEEPER THAN 1:48 (2%).
 10. ACCESSIBLE ROUTES SHALL COMPLY WITH CONNECTICUT BUILDING CODE. THE RUNNING SLOPE OF WALKING SURFACES WITHIN THE ACCESSIBLE ROUTE SHALL NOT BE STEEPER THAN 1:20 (5%). THE CROSS SLOPE OF A WALKING SURFACE WITHIN THE ACCESSIBLE ROUTE SHALL NOT BE STEEPER THAN 1:48 (2%).
 11. RAMPS SHALL COMPLY WITH CT BUILDING CODE, REF. 2012 IBC SECTION 1010 AND ICC/ANSI A117.1 2009 CHAPTER 4, SECTION 405.
 12. SLOPES WITHIN THE DOOR SWING MANEUVERING CLEARANCE SHALL CONFORM TO ICC/ANSI A117.1 2009 CHAPTER 4, SECTION 404.2.3.1.
 13. VERIFY ALL GRADES AND SLOPES TO ENSURE COMPLIANCE WITH CT BUILDING CODE PRIOR TO CONCRETE PLACEMENT. REPORT DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
 14. PROPOSED GRADES INDICATE DESIGN INTENT. VERIFY ELEVATIONS AND MAKE ADJUSTMENTS TO MEET FIELD CONDITIONS. DO NOT PROCEED WITH ANY ADJUSTMENT OR FIELD MODIFICATION UNTIL APPROVED BY THE ENGINEER.
 15. GRADE TRANSITION BETWEEN TOPOGRAPHIC LINES AND SPOT GRADES SHALL BE UNIFORM UNLESS OTHERWISE INDICATED.
 16. UNLESS OTHERWISE INDICATED, BLEND TRANSITIONS IN ELEVATION BETWEEN NEW WORK AND AREAS TO REMAIN AT A MAXIMUM SLOPE OF 1V:2H AND RESTORE WITH FOUR (4) INCHES OF LOAM AND SEED. PROVIDE ADDITIONAL EROSION CONTROLS AS REQUIRED. COORDINATE WITH ENGINEER IF DIMENSIONAL CONSTRAINTS REQUIRE STEEPER SLOPES.
 17. UPON READING PROPOSED SUBGRADE ELEVATIONS WITHIN THE FIELD, ENGINEER WILL REVIEW SUBGRADE PRIOR TO INSTALLATION OF DRAINAGE SYSTEM. SEE SPECIFICATION SECTION 31 2310 - EARTHWORK.
 18. THE TOPS, RIMS, FRAMES, GRATES, AND COVERS (AS APPLICABLE) OF ALL UTILITY STRUCTURES THAT ARE TO REMAIN SHALL BE ADJUSTED TO MATCH FINAL GRADE IN A FLUSH CONDITION. ALL NEW UTILITY STRUCTURES SHALL BE INSTALLED WITH TOPS, RIMS, FRAMES, GRATES, AND COVERS (AS APPLICABLE) TO FINAL GRADE IN A FLUSH CONDITION.
 19. AT THE CONCLUSION OF THE WORK, CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT MATERIAL FROM ALL PORTIONS OF THE STORM DRAINAGE SYSTEM, INCLUDING NEW WORK AND EXISTING WORK THAT REMAINS OR IS INCORPORATED INTO THE NEW SYSTEM.



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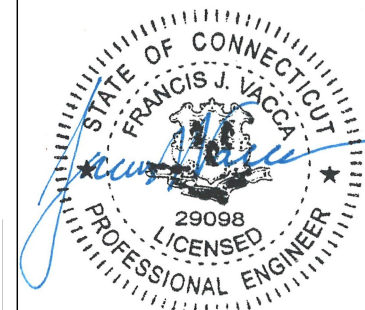
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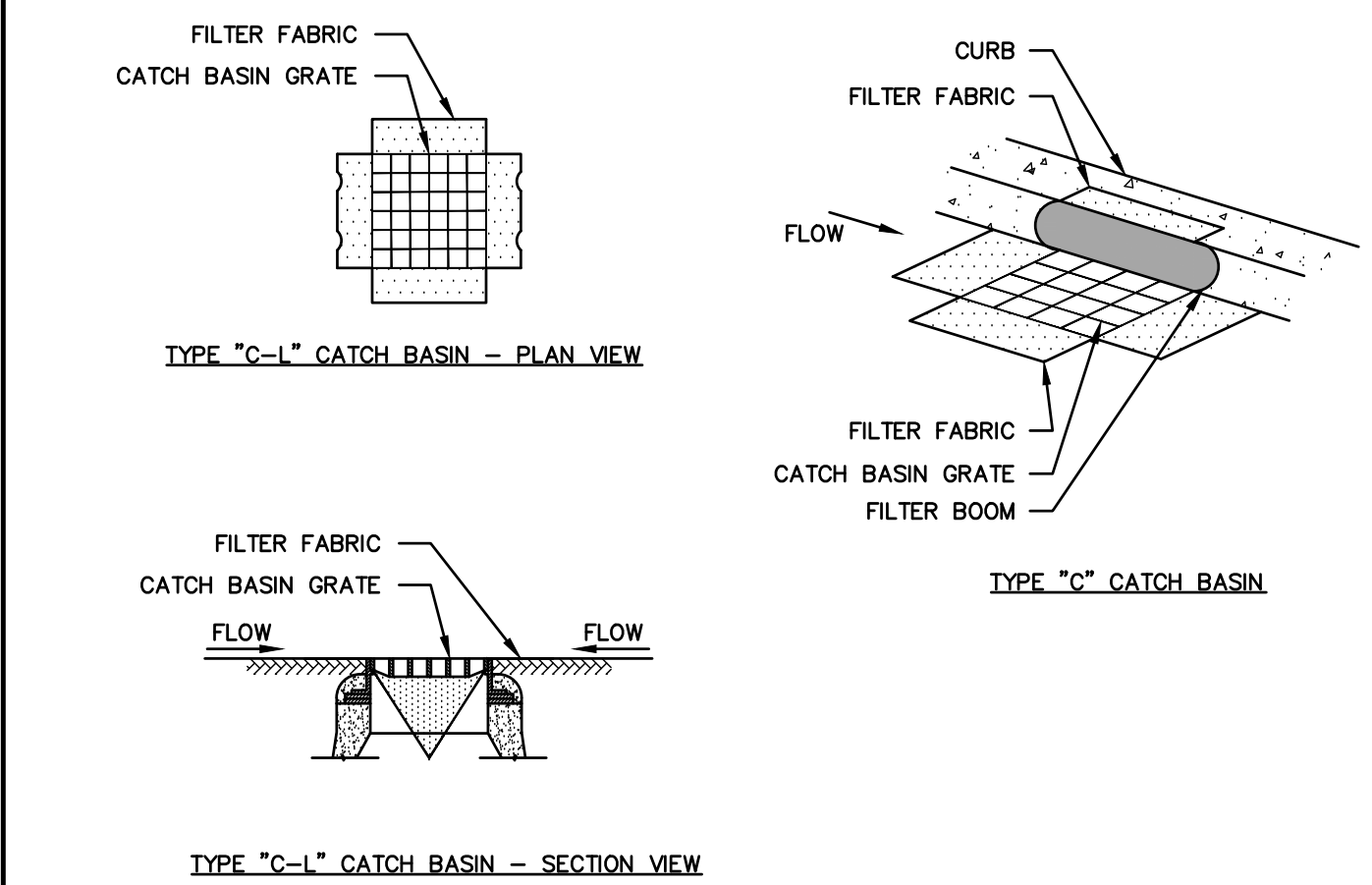


Drawing Title:
**GRADING & DRAINAGE
PLAN**

Date:
JULY 17, 2018
Scale:
1" = 10'
Drawn By:

Project Number:
17.025

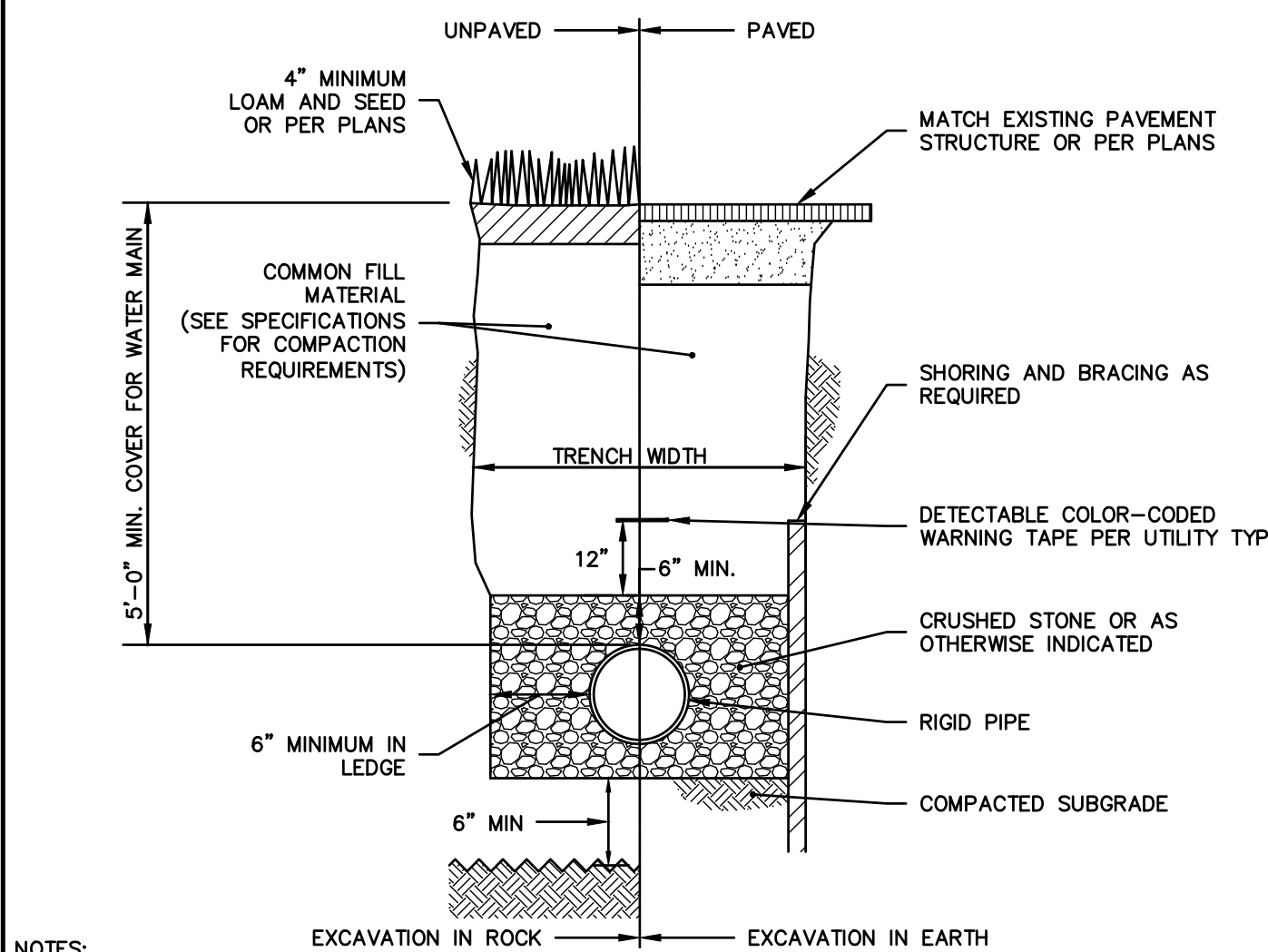
C-3.0



- GENERAL NOTES
1. PROVIDE INLET PROTECTION TO ALL EXISTING CATCH BASINS IN THE VICINITY OF CONSTRUCTION. PROTECT NEW CATCH BASINS AS THEY ARE CONSTRUCTED.
 2. GRATE TO BE PLACED OVER FILTER FABRIC.

CATCH BASIN FILTER INSERT

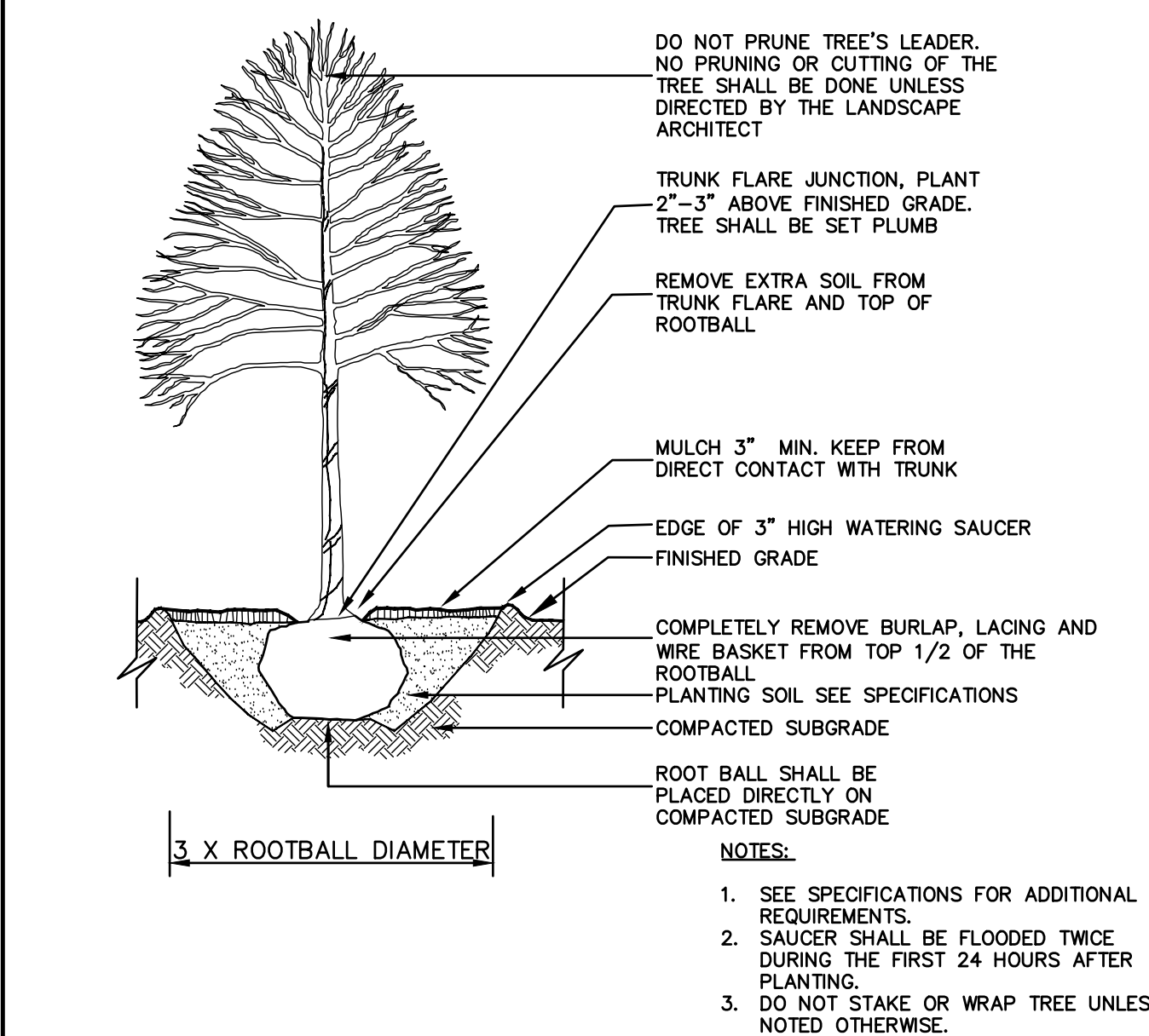
SCALE: NONE



- NOTES:
1. SHORING AND BRACING OF TRENCHES IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL SHORING AND BRACING SHALL BE IN ACCORDANCE WITH THE LATEST OSHA STANDARDS AND INTERPRETATIONS, TO ALL OTHER APPLICABLE CODES, RULES, AND REGULATIONS OF FEDERAL STATE AND LOCAL AUTHORITIES, AND AS REQUIRED TO MAINTAIN SAFE WORKING CONDITIONS AT ALL TIMES.
 2. ANY DISTURBED SUBGRADE SHALL BE WELL COMPACTED. EXCAVATION IN ROCK SHALL BE A MINIMUM 6-INCHES BELOW BOTTOM OF BEDDING AND BACKFILLED WITH GRANULAR FILL OR OTHER APPROVED MATERIAL.
 3. IN CASE OF CONFLICT BETWEEN THIS DETAIL AND INSTALLATION REQUIREMENTS OF THE PIPE MANUFACTURER OR LOCAL UTILITY OWNER, INSTALLATION REQUIREMENTS OF THE PIPE MANUFACTURER OR LOCAL UTILITY OWNER WILL PREVAIL.

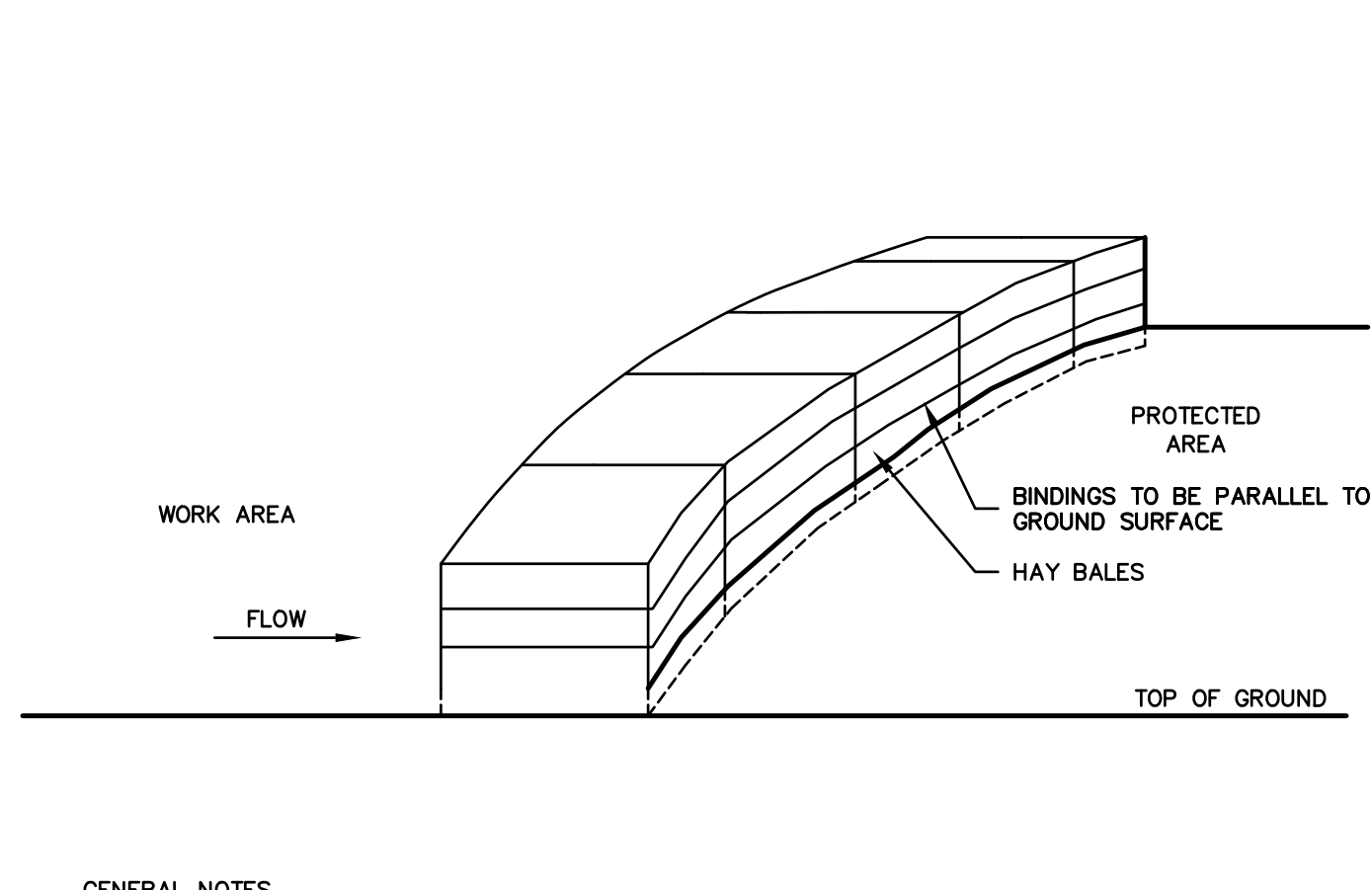
TYPICAL PIPE TRENCH -- RIGID PIPE

SCALE: NONE



TREE PLANTING

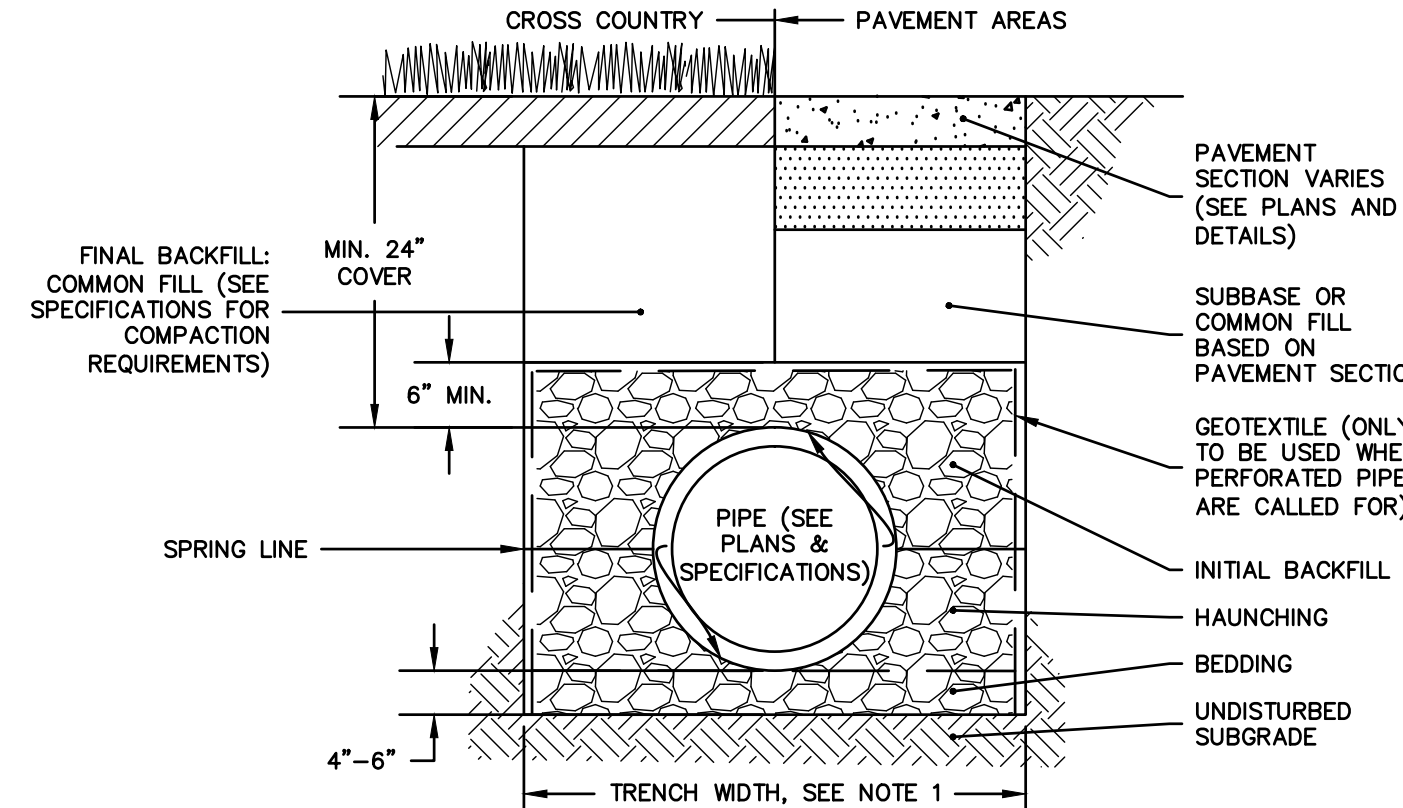
SCALE: NONE



- GENERAL NOTES
1. HAY BALES SHALL BE MADE OF HAY OR STRAW WITH 40 POUND MIN. WEIGHT AND 120 POUND MAX. WEIGHT HELD TOGETHER BY TWINE OR WIRE.
 2. PLACE HAY BALES ON CONTOUR AND WING THE LAST HAY BALES UP SLOPE SO THAT THE TOP OF THE LAST SEVERAL HAY BALES ARE HIGHER THAN THE LINE OF HAY BALES.
 3. PUT ONE HAY BALE PERPENDICULAR ALONG HAY BALE BARRIER EACH 100 FEET.

STAKELESS HAY BALE BARRIER

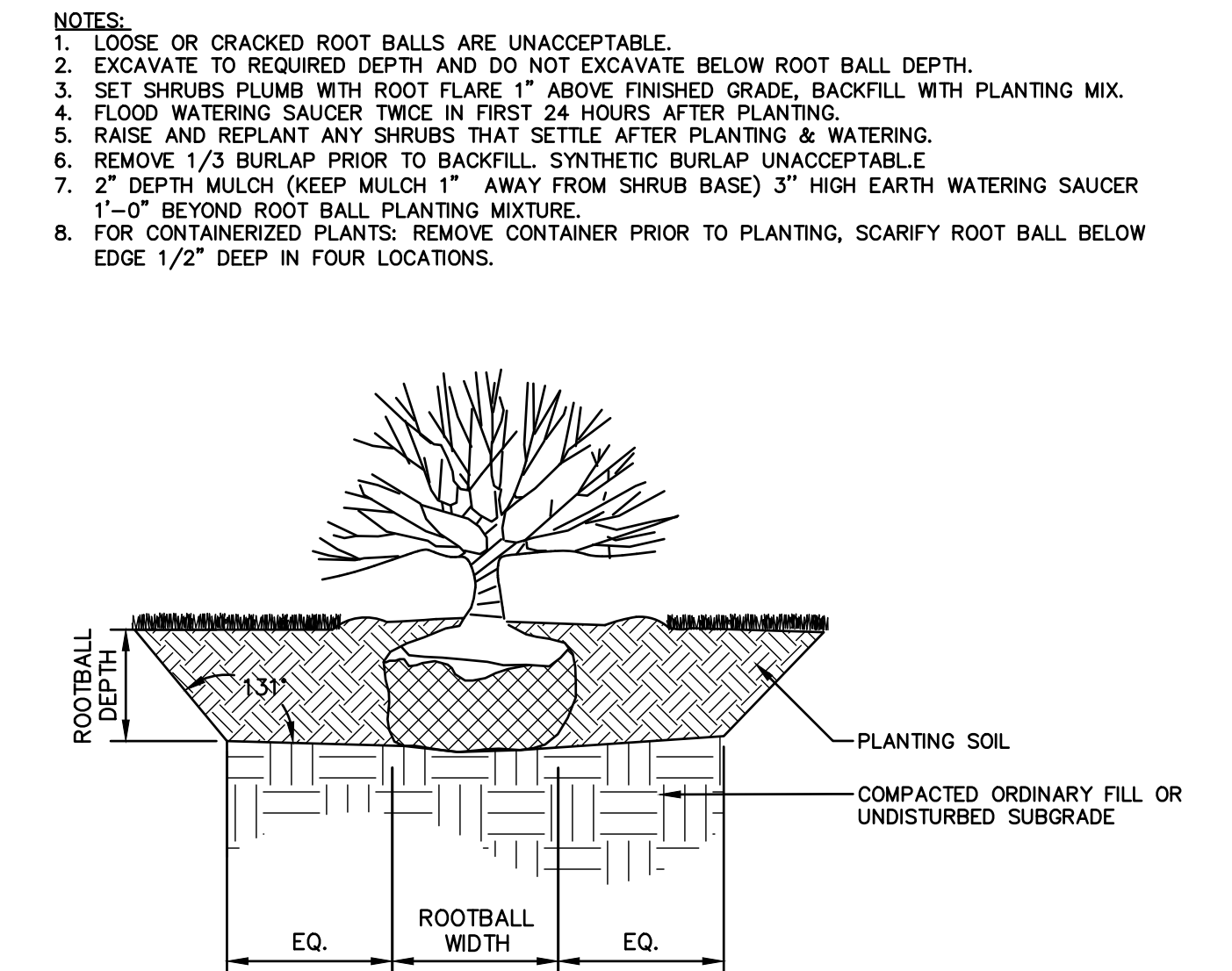
SCALE: NONE
EC-106-CT



- NOTES:
1. WHERE TRENCH WALLS ARE STABLE OR SUPPORTED, PROVIDE A WIDTH SUFFICIENT, BUT NO GREATER THAN NECESSARY, TO ENSURE WORKING ROOM TO PROPERLY PLACE AND COMPACT HAUNCHING AND OTHER EMBEDMENT MATERIALS. UNLESS OTHERWISE SPECIFIED BY THE PIPE MANUFACTURER, THE SPACE BETWEEN THE PIPE AND TRENCH WALL MUST BE WIDER THAN THE COMPACTION EQUIPMENT USED IN THE PIPE ZONE. MINIMUM WIDTH SHALL BE NOT LESS THAN THE GREATER OF EITHER THE PIPE OUTSIDE DIAMETER PLUS 16 INCHES OR THE PIPE OUTSIDE DIAMETER TIMES 1.25, PLUS 12 INCHES.
 2. WHERE PERFORATED PIPES ARE CALLED-FOR, BEDDING, HAUNCHING, AND INITIAL BACKFILL SHALL BE CONDOT NO. 6 CRUSHED STONE SHALL MEET THE REQUIREMENTS OF FORM R16 M.06.
 3. WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL PER THE SPECIFICATIONS. AS AN ALTERNATIVE, AND AT THE DISCRETION OF THE ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL UNDER SOME CIRCUMSTANCES.
 4. BEDDING, HAUNCHING, AND INITIAL BACKFILL SHALL BE CONDOT NO. 6, NO. 67, OR NO. 8 AGGREGATE OR OTHER MATERIALS MEETING THE REQUIREMENTS OF ASTM D2321 FOR CLASS IA, IB, II, OR III UNLESS OTHERWISE INDICATED BY THE PIPE MANUFACTURER.

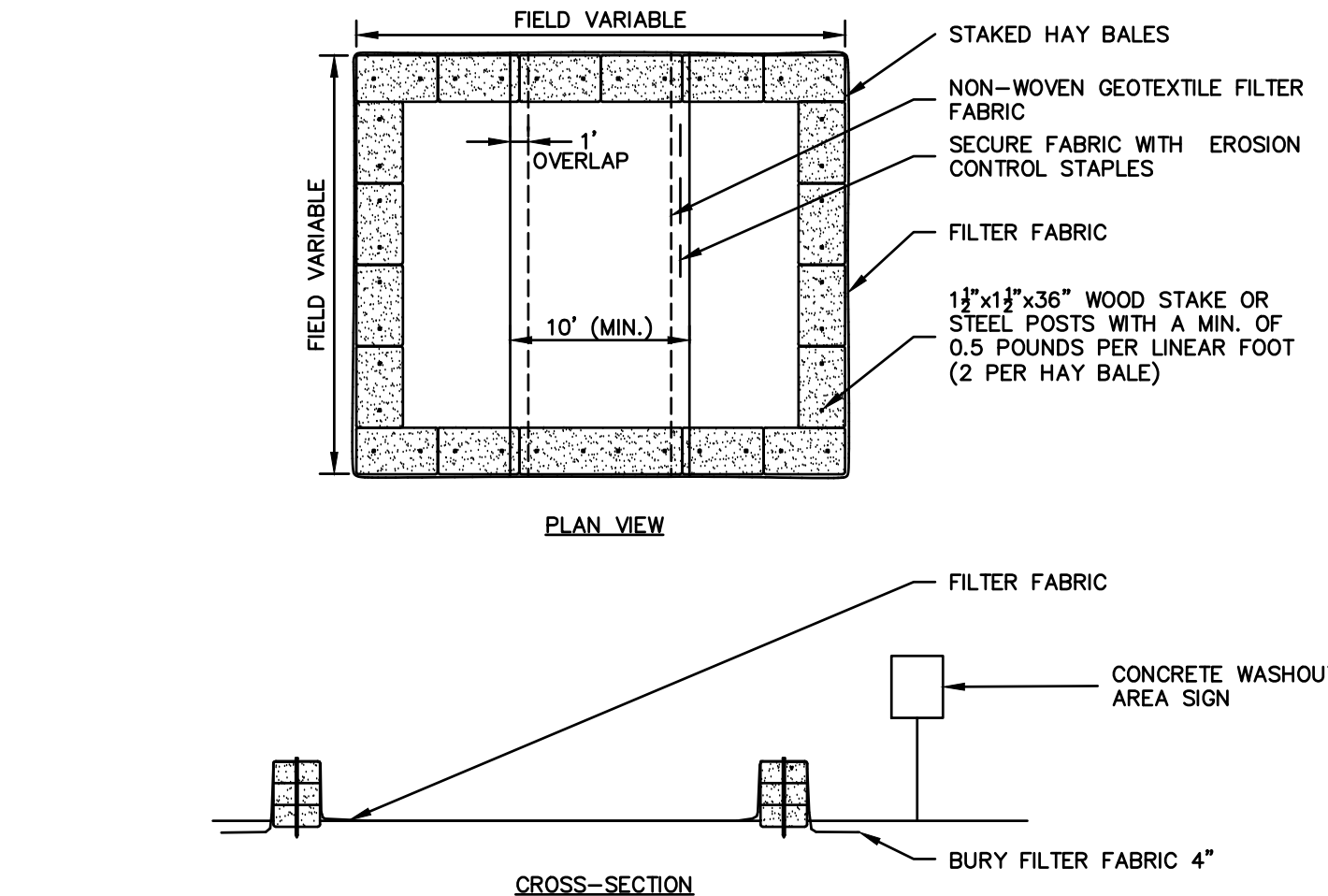
TYPICAL TRENCH SECTION -- THERMOPLASTIC DRAINAGE PIPE

SCALE: NONE



SHRUB PLANTING

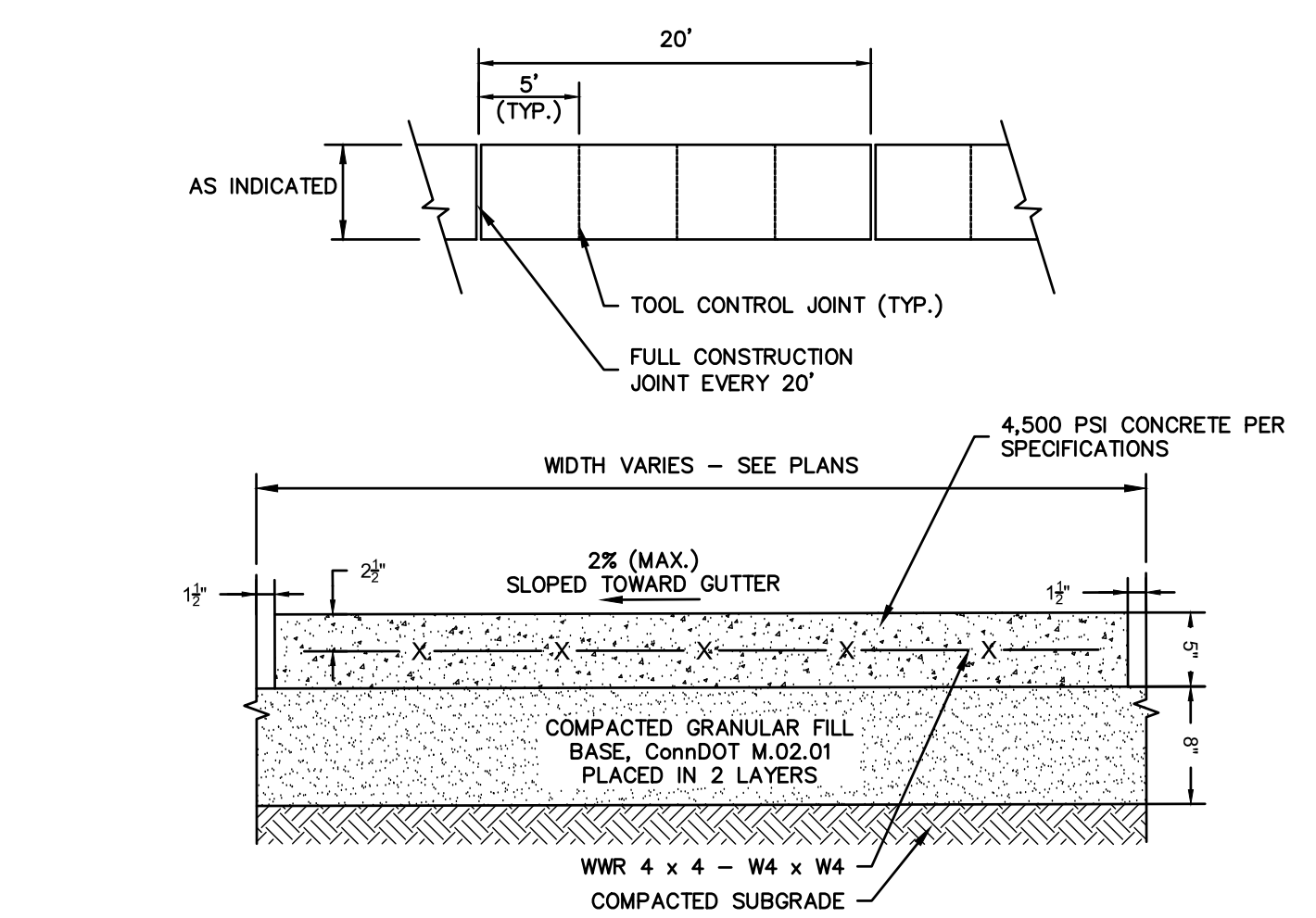
SCALE: NONE



- NOTES:
1. CONSTRUCT WASHOUT AREA LARGE ENOUGH TO ENSURE MATERIALS WILL BE CONTAINED WHERE WASTE CONCRETE CAN SOLIDIFY IN PLACE AND EXCESS WATER CAN SAFELY EVAPORATE.
 2. WASHOUT AREA SHALL BE LARGE ENOUGH TO RETAIN ALL LIQUID AND WASTE CONCRETE MATERIALS FROM WASHOUT OPERATION.
 3. WEEKLY INSPECTIONS OF WASHOUT AREAS SHALL BE CONDUCTED TO ASSESS THE HOLDING CAPACITY AND FUNCTIONALITY OF THE WASHOUT AREA.
 4. CONTRACTOR MAY EXERCISE THE OPTION TO USE A FULLY REMOVABLE WASHOUT DEVICE, SUCH AS A PLASTIC CHILDREN'S POOL OR POLYETHYLENE ENCASED CRATE.

TEMPORARY CONCRETE WASHOUT AREA

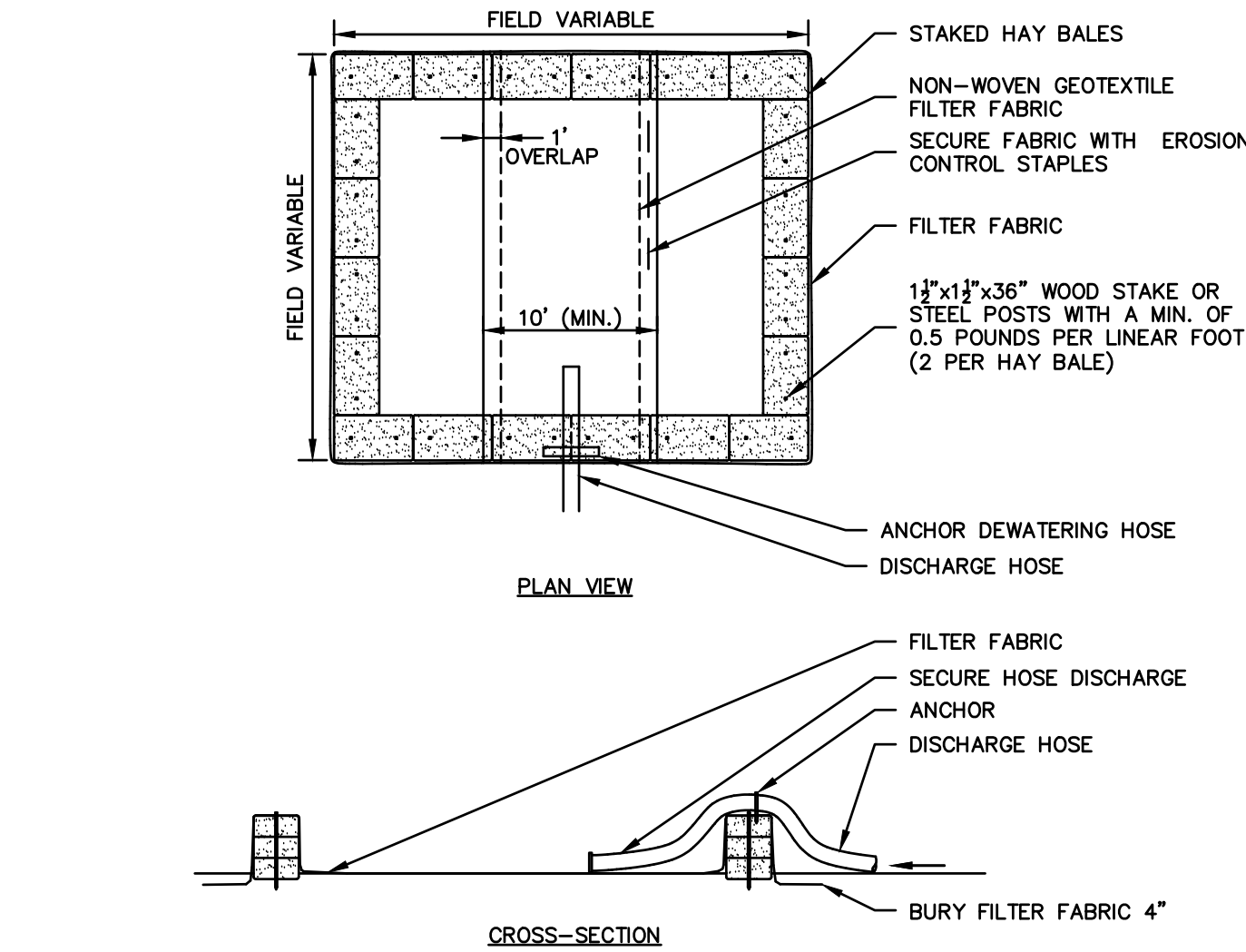
SCALE: NONE



- NOTES:
1. TOOLED CONTROL JOINTS SHALL BE 1/4 SLAB THICKNESS. TOOL JOINTS EARLY IN THE FINISHING PROCESS AND RE-RUN TO ENSURE GROOVE BOND HAS NOT OCCURRED.
 2. FULL-DEPTH JOINTS SHALL INCORPORATE FULL-DEPTH JOINT FILLER PER SPECIFICATIONS AND DETAILS.
 3. SIDEWALK SHALL HAVE LIGHT BROOM FINISH PERPENDICULAR TO THE DIRECTION OF TRAVEL.

CONCRETE SIDEWALK

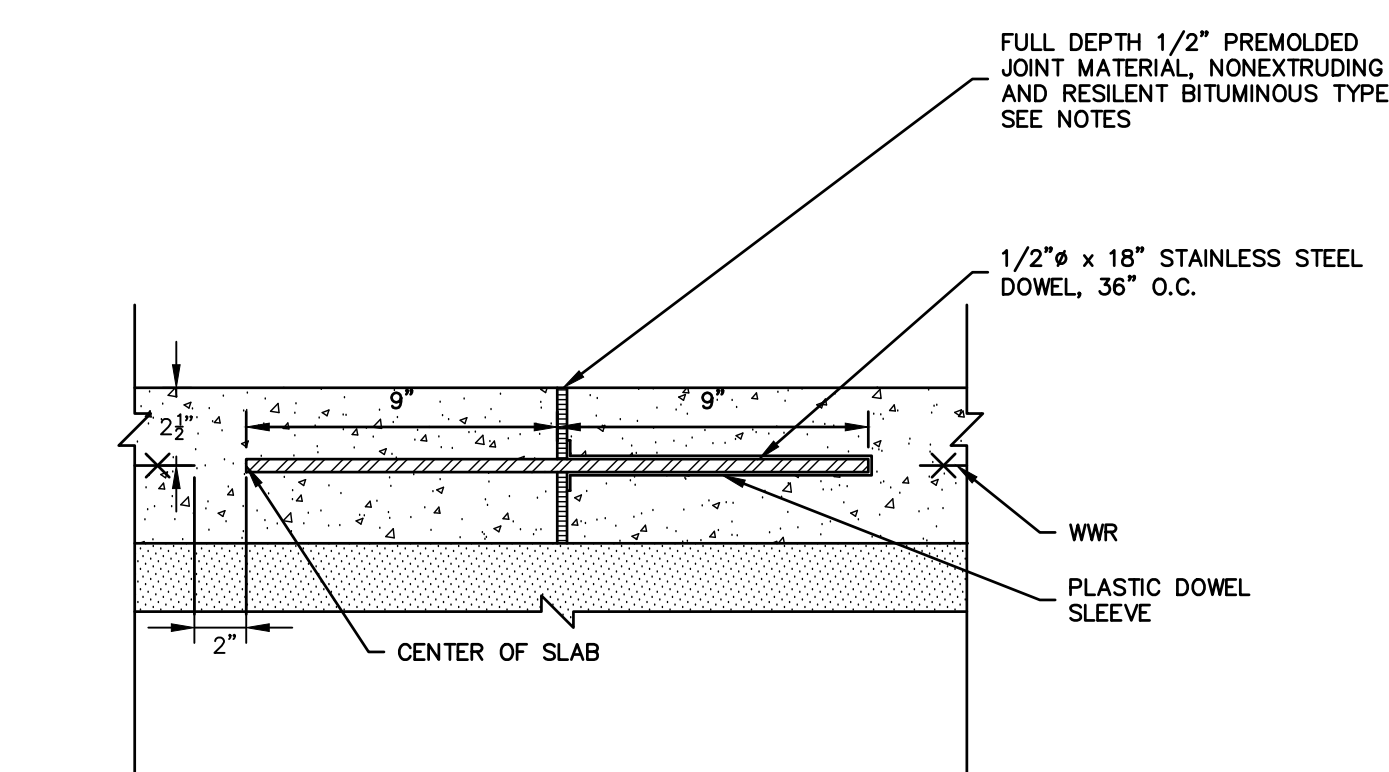
SCALE: NONE



- NOTES:
1. NUMBER OF BALES MAY VARY DEPENDING ON SITE CONDITIONS.
 2. THE BASIN TO BE SIZED ACCORDING TO: CUBIC FEET OF STORAGE = PUMP DISCHARGE RATE(gpm) x 16.
 3. SIZE SHOWN ON PLANS SHALL BE ADJUSTED AS REQUIRED FOR THE ACTUAL PUMPING RATE.

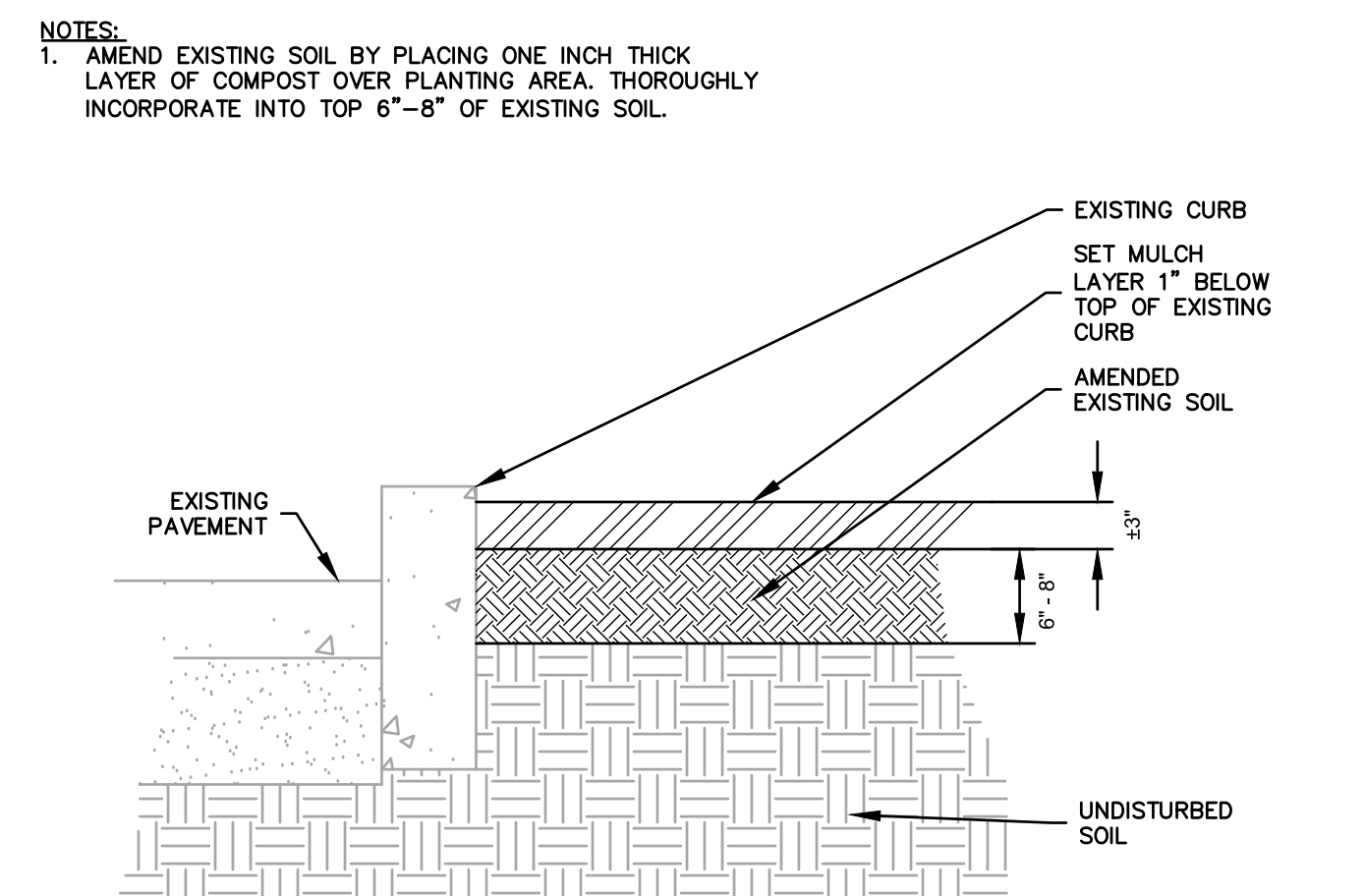
DEWATERING HAY BALE BASIN (TYPE 1)

SCALE: NONE
EC-114-CT



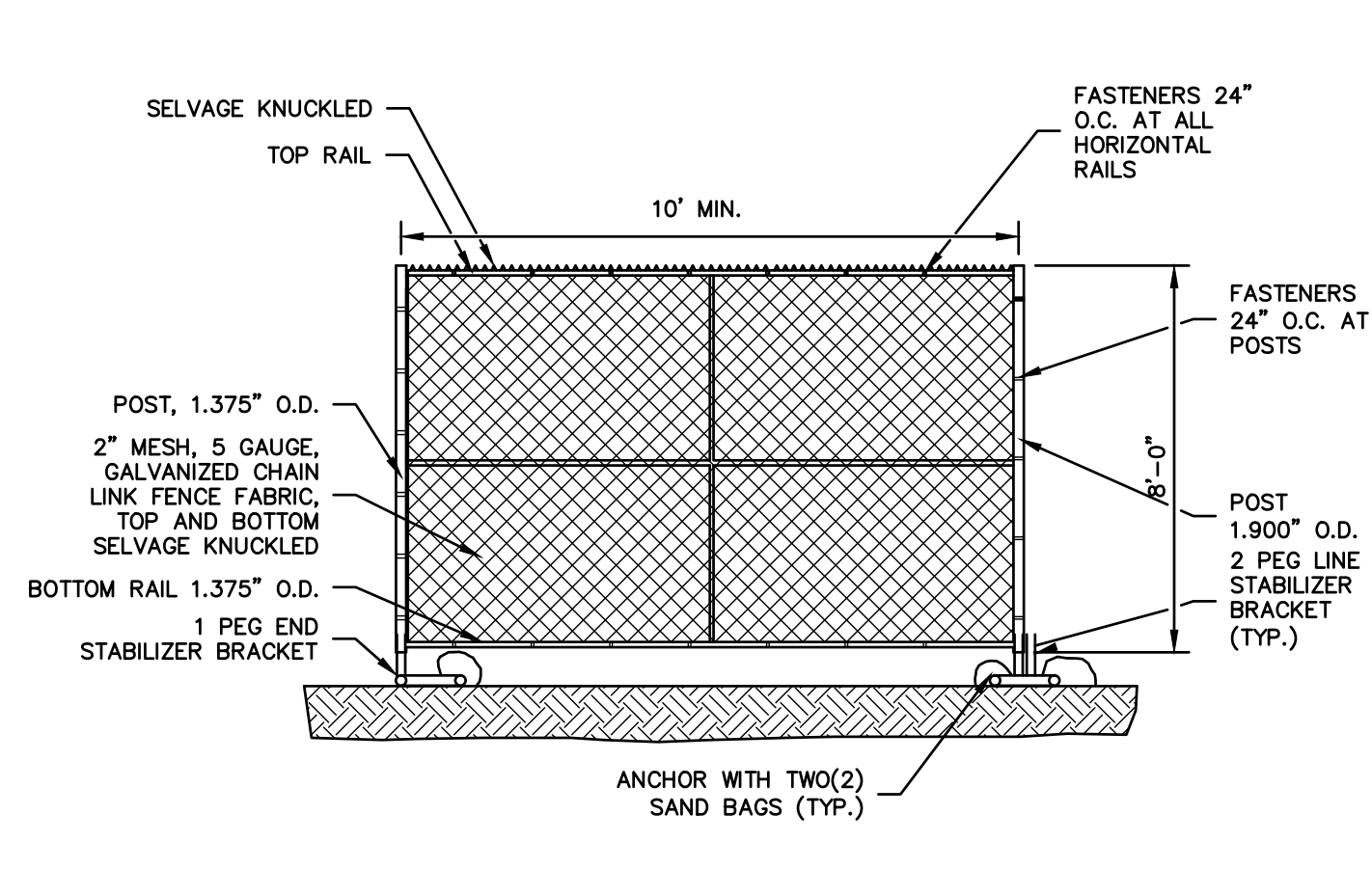
DOWELED CONSTRUCTION JOINT IN CONCRETE

SCALE: NONE



NEW PLANTING IN EXISTING PLANTER

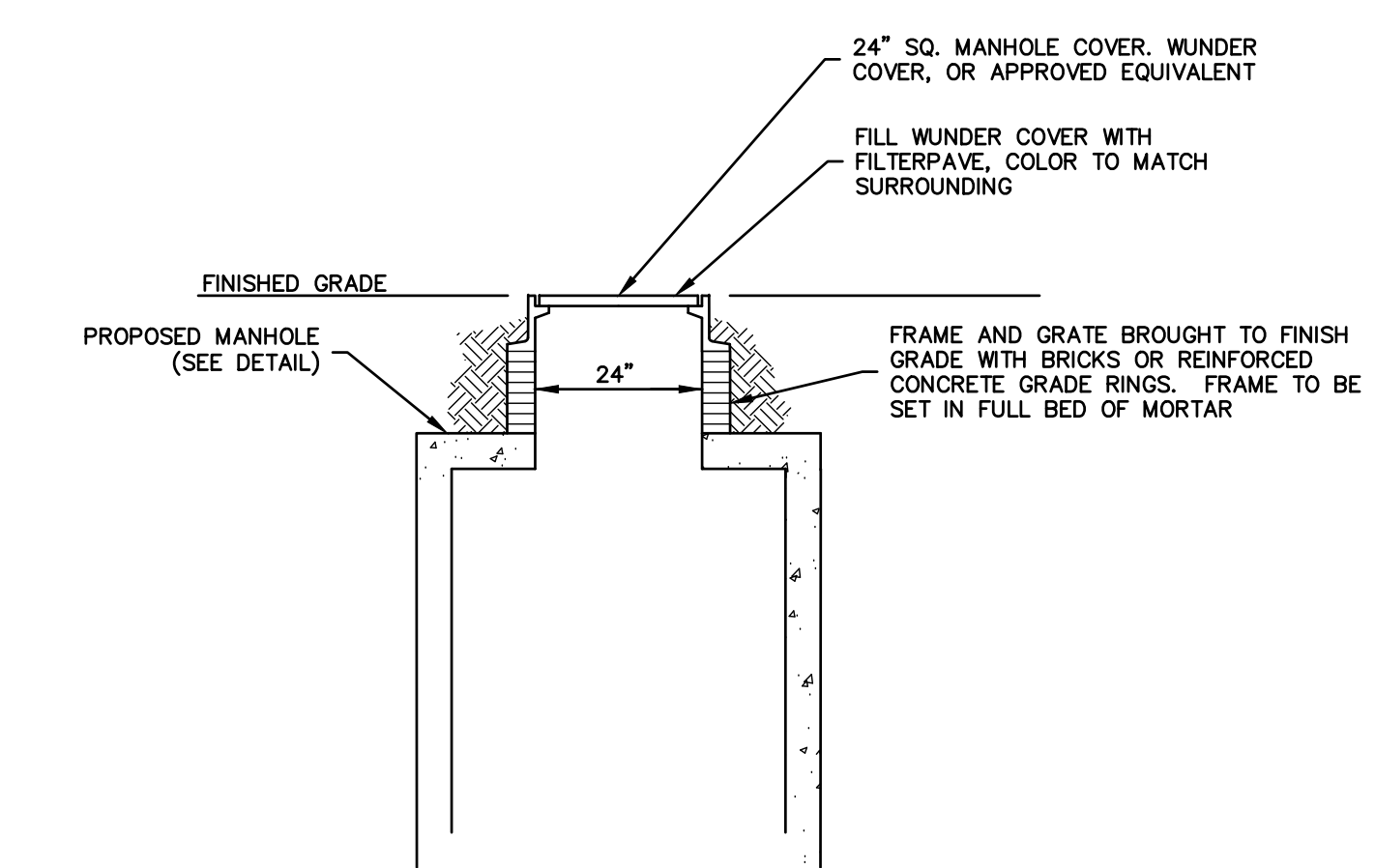
SCALE: NONE



- NOTES:
1. EACH STABILIZER BRACKET SHALL BE SECURED WITH TWO (2) SANDBAGS, MIN. 50 POUNDS EACH.
 2. PANELIZED CONSTRUCTION FENCE SHALL ONLY BE USED AT CONSTRUCTION SITE ENTRANCE AREAS, AREAS REQUIRING FREQUENT RELOCATION OF FENCING, OR WHERE PAVED AREAS PROHIBIT INSTALLATION OF DRIVEN FENCE POSTS.

TEMPORARY CONSTRUCTION FENCE

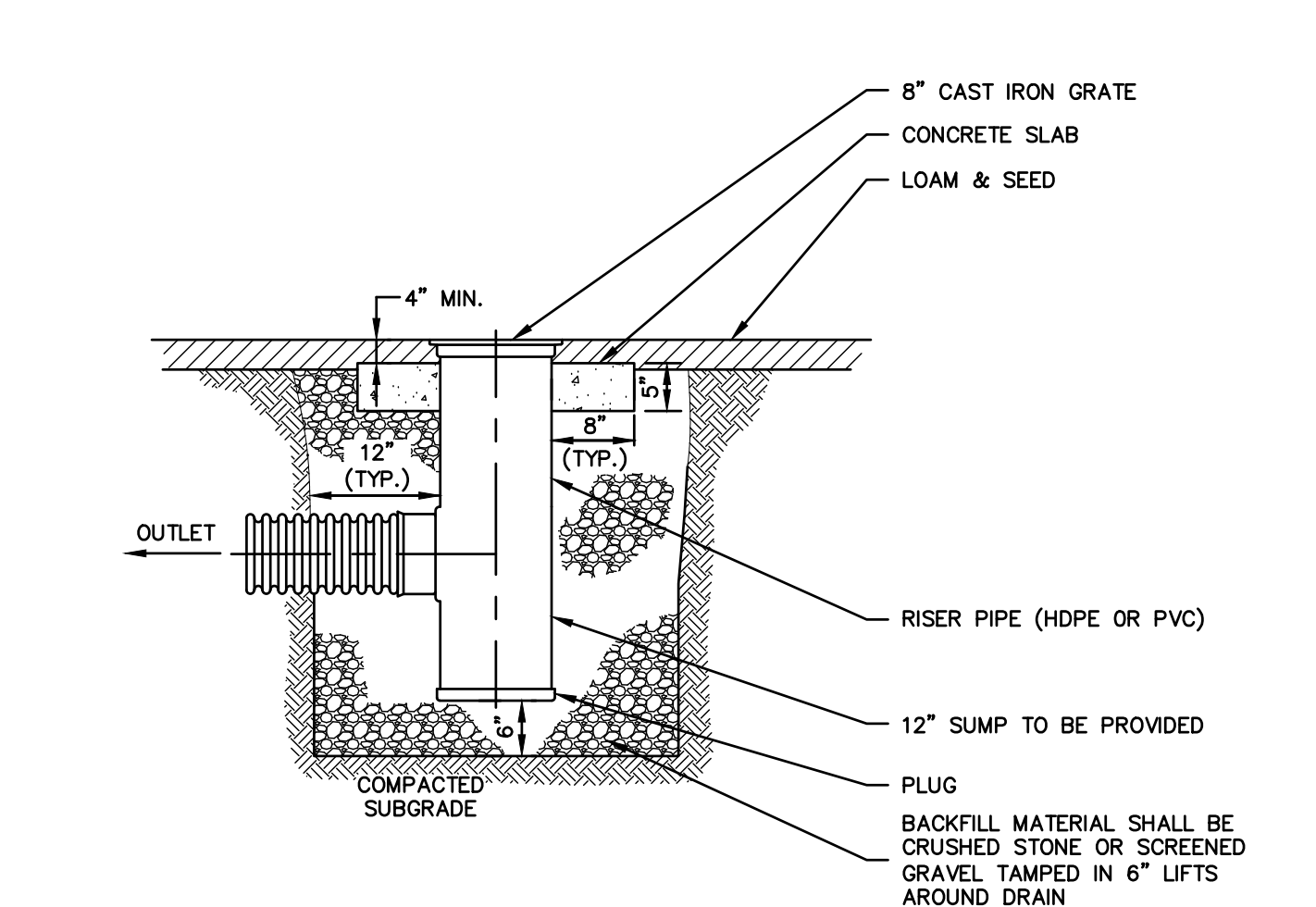
SCALE: NONE



- NOTES:
1. SUBMIT SHOP DRAWING FOR WUNDERCOVER OR APPROVED EQUAL

WUNDER COVER MANHOLE COVER

SCALE: NONE



AREA DRAIN (HDPE OR PVC)

SCALE: NONE
STM-116-CT

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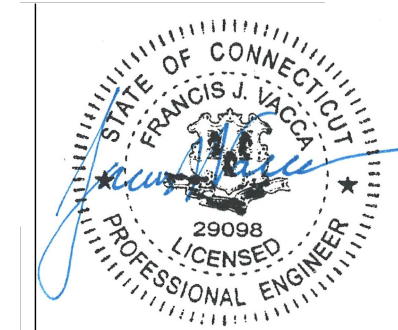
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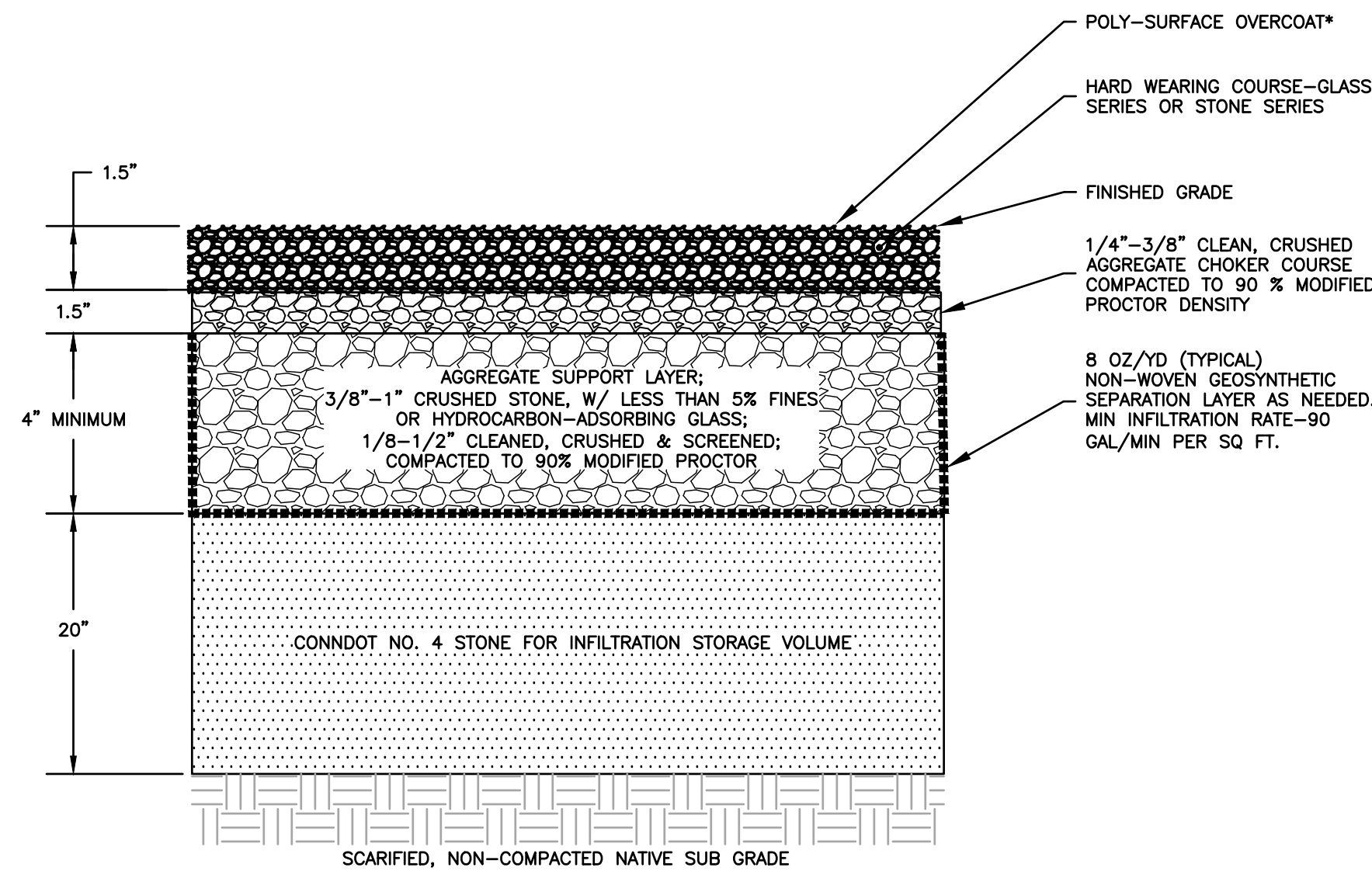
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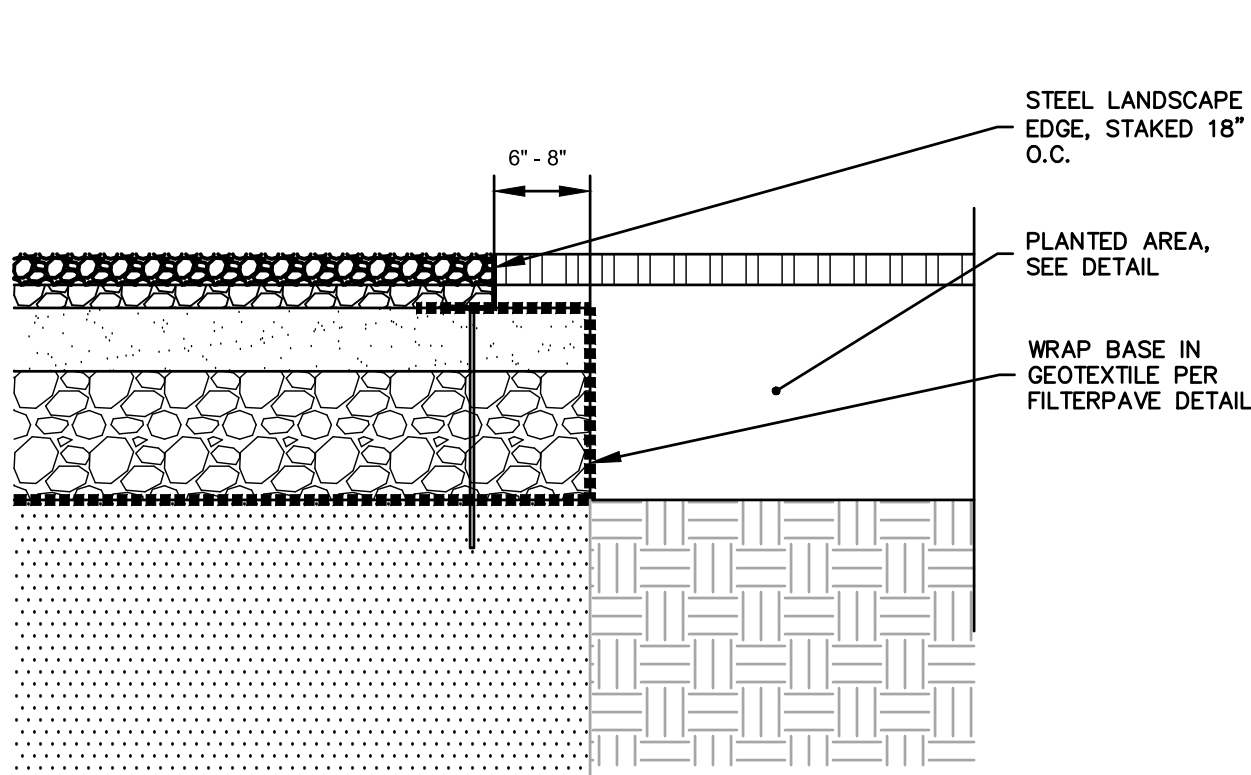


BINDER PROPERTIES:
THE BINDER SHALL BE A UNIQUE TWO COMPONENT ELASTOMERIC BINDING MATERIAL MANUFACTURED SPECIFICALLY FOR USE IN THE FILTERPAVE POROUS PAVEMENT SYSTEM. ONLY BINDER PURCHASED THROUGH FILTERPAVE PRODUCTS LLC OR AN AUTHORIZED AGENT IS ACCEPTABLE.

GLASS AND STONE PROPERTIES:
THE GLASS AND STONE SHALL BE PROCESSED USING FILTERPAVE PRODUCTS LLC PATENTED PROCEDURE FOR USE IN THE FILTERPAVE POROUS PAVEMENT SYSTEM. ONLY GLASS AND STONE PURCHASED THROUGH FILTERPAVE PRODUCTS LLC OR AN AUTHORIZED AGENT IS ACCEPTABLE. REFER TO FILTERPAVE PRODUCT SPECIFICATION GUIDE.

FILTERPAVE PERMEABLE PAVEMENT

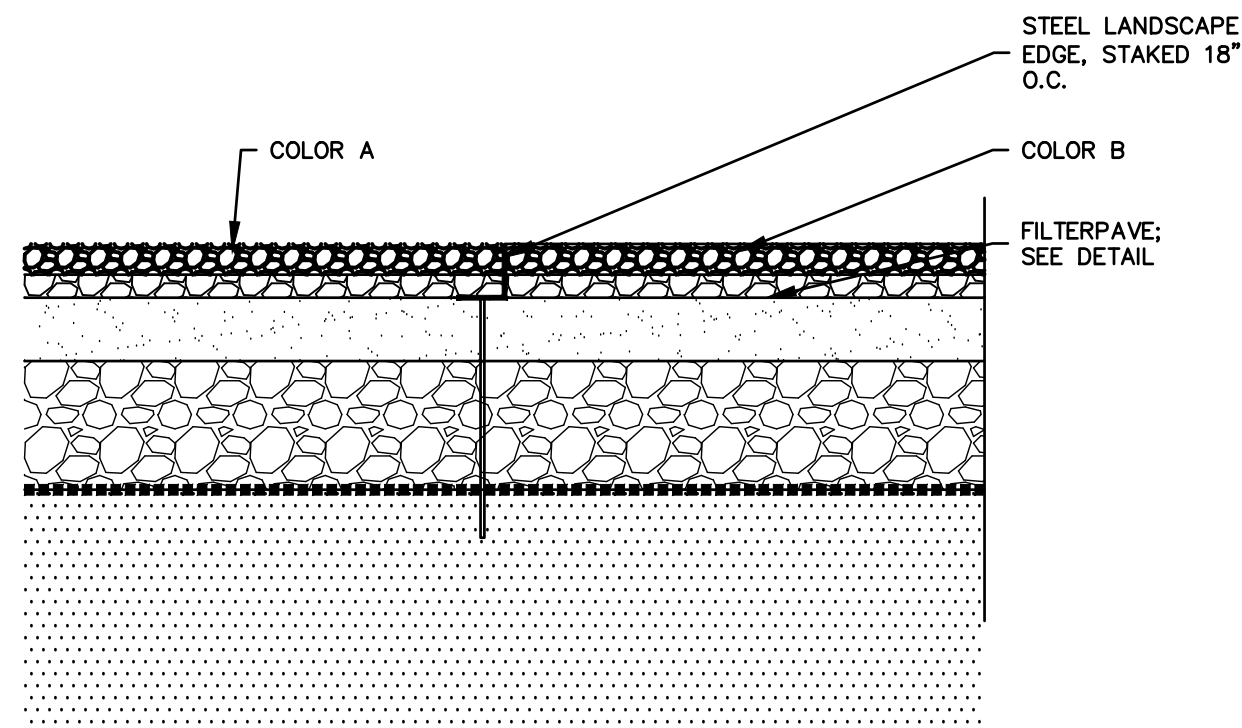
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NOTES:
1. INSTALL FILTERPAVE SYSTEM PER MANUFACTURER'S INSTRUCTIONS.

FILTERPAVE AT PLANTED AREA

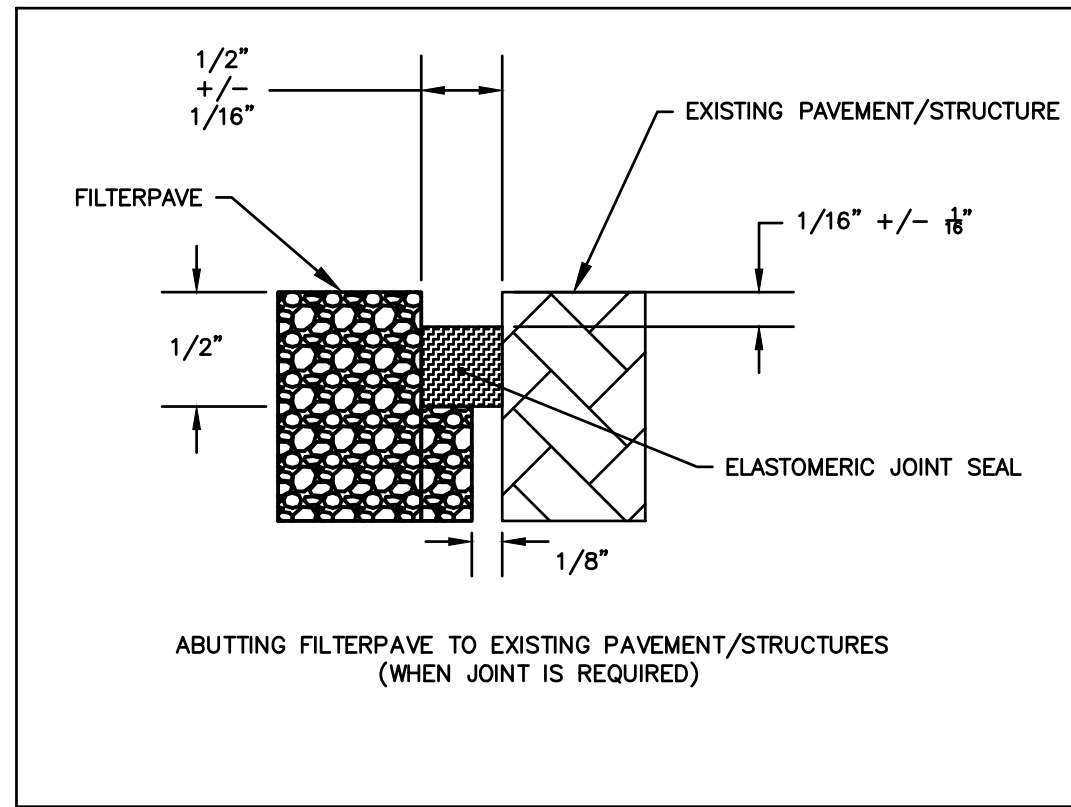
SCALE: NONE



NOTES:
1. INSTALL FILTERPAVE SYSTEM PER MANUFACTURER'S INSTRUCTIONS.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWING FOR COLOR SEPARATION METHOD.

FILTERPAVER COLOR SEPARATION

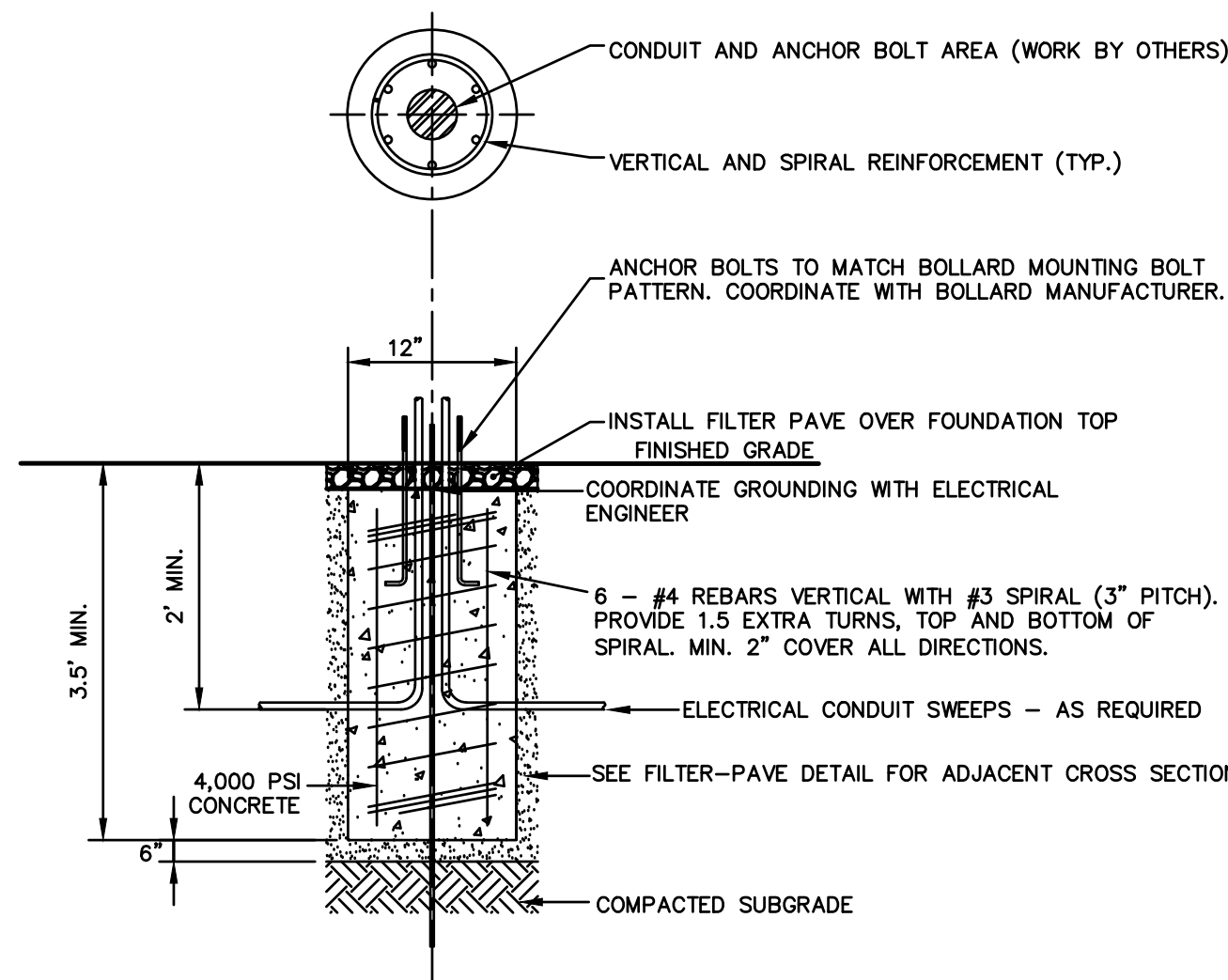
SCALE: NONE



NOTES:
1) BASE DEPTHS SHOWN ARE MINIMUMS FOR STRUCTURAL STRENGTH. POOR SUBGRADE PERMEABILITY AND/OR AREAS WITH HIGHER THAN AVERAGE RAINFALLS MAY REQUIRE MORE BASE AS A STORAGE RESERVOIR.
2) SUBGRADE TO BE EVALUATED FOR CBR VALUE AND PERMEABILITY IN ALL CASES.

DRAINAGE MANHOLE SECTION A-A

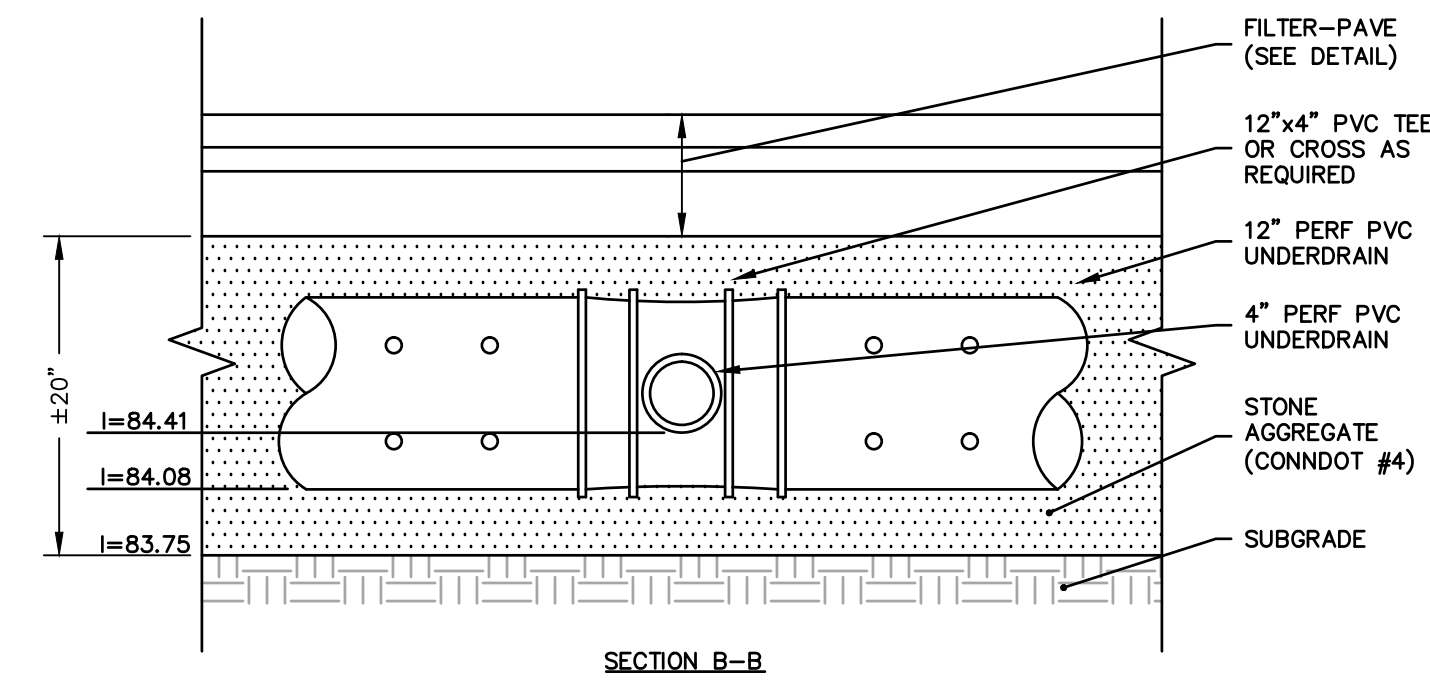
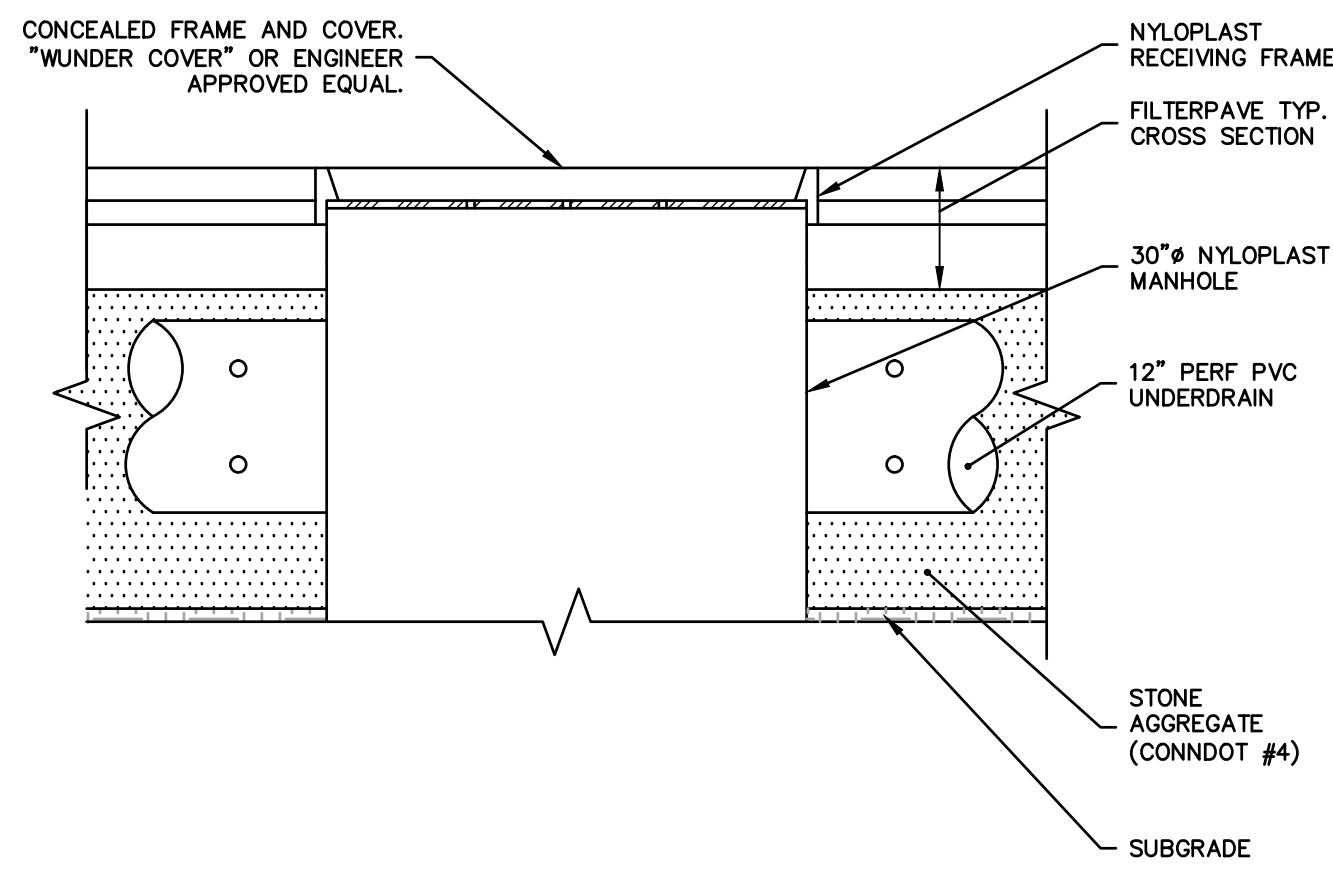
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NOTES:
1. CONTRACTOR TO COORDINATE WITH BOLLARD MANUFACTURER FOR MOUNTING SPECIFICATIONS AND ANCHOR SIZING. COORDINATE WITH ARCHITECT AND ELECTRICAL ENGINEER FOR BOLLARD INFORMATION.

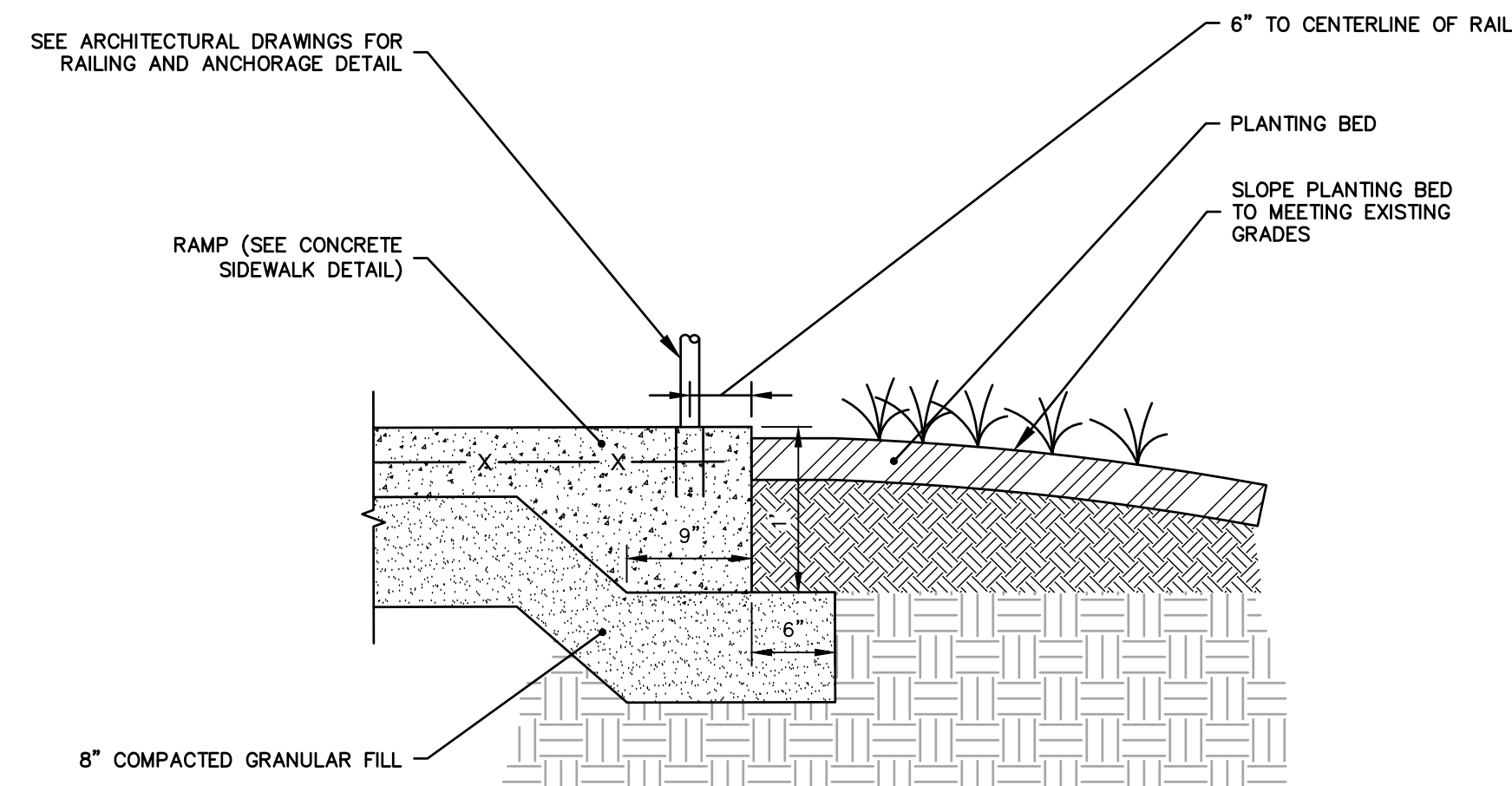
ILLUMINATED BOLLARD FOUNDATION

SCALE: NONE



UNDERDRAIN DETAIL SECTION B-B

SCALE: NONE



RAMP EDGE AT PLANTING BED INTERFACE

SCALE: NONE

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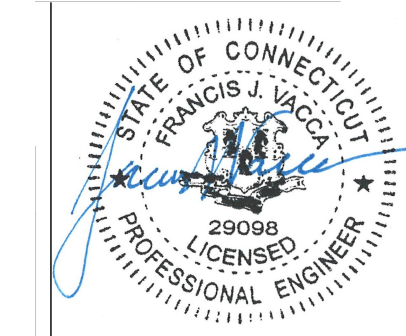
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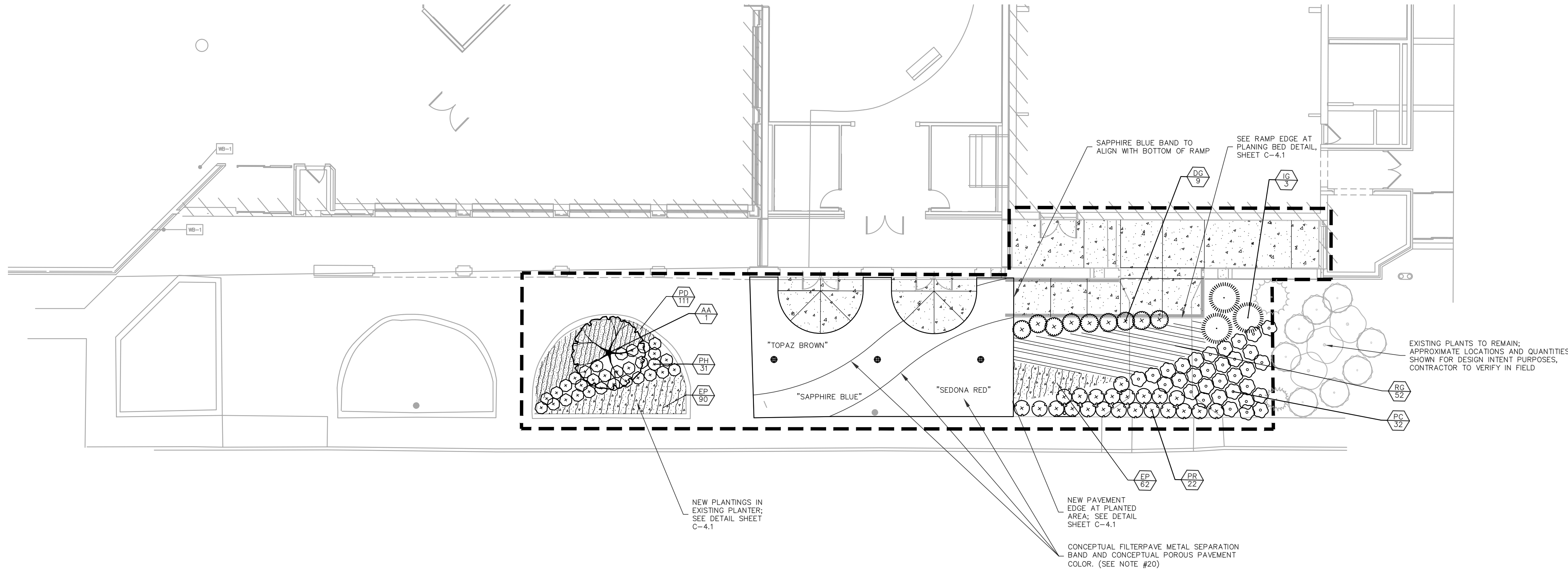
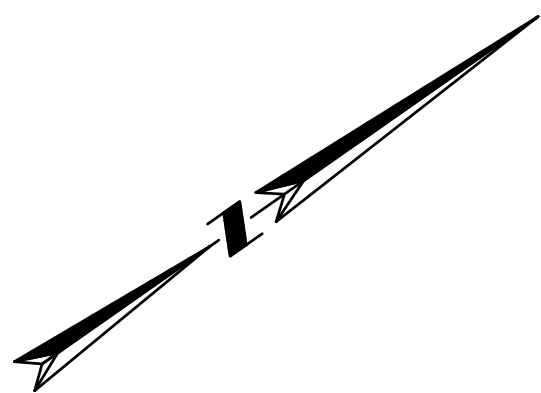
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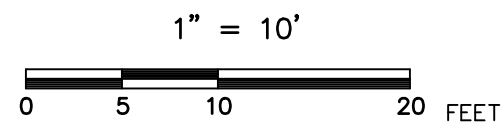
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NOTES:

1. THE CONTRACTOR SHALL CLEARLY MARK LIMITS OF CLEARING AND LIMITS OF TREE REMOVAL, SELECTIVE PRUNING AND THINNING FOR REVIEW BY THE LANDSCAPE ARCHITECT PRIOR TO ANY CLEARING OPERATIONS. ALL TREE WORK SHALL BE EXECUTED BY A LICENSED ARBORIST.
2. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT EXISTING VEGETATION THAT IS DESIGNATED, "TO REMAIN".
3. ALL TREES TO BE SAVED SHALL BE PROTECTED. SEE SPECIFICATION FOR TREE PROTECTION REQUIREMENTS.
4. EXISTING ON SITE TOPSOIL MAY BE REUSED UPON APPROVAL BY THE LANDSCAPE ARCHITECT. EXISTING TOPSOIL SHALL BE TESTED AND AMENDED FOR NUTRIENTS, ORGANIC MATTER, pH, AND SOIL TEXTURE. SEE SPECIFICATIONS.
5. REMOVE ALL ROCKS AND DEBRIS FROM SOIL SURFACE AND GRADE TO AN EVEN SURFACE. SEE SPECIFICATIONS.
6. COMPLETE QUANTITIES OF PLANTS FOR EACH AREA TO BE AVAILABLE ON SITE AT THE TIME OF PLANTING FOR FIELD LAYOUT BY OWNER'S REPRESENTATIVE. NO PARTIAL LAYOUT AND PLANTING OF AREAS WILL BE ACCEPTABLE.
7. ALL PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED BY THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. - SEE SPECIFICATION FOR DETAILED REQUIREMENTS.
8. ANY PROPOSED SUBSTITUTIONS OF PLANT MATERIAL SHALL BE MADE WITH MATERIAL EQUIVALENT TO THE DESIRED MATERIAL IN OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE. NO SUBSTITUTION OF PLANT SPECIES OR VARIETIES WILL BE ACCEPTABLE WITHOUT LANDSCAPE ARCHITECT'S WRITTEN APPROVAL.
9. OWNER'S REPRESENTATIVE TO APPROVE PLANT MATERIAL PRIOR TO DELIVERY TO SITE AND AGAIN AT THE PROJECT SITE PRIOR TO PLANTING.
10. VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND REPORT ANY CONFLICTS TO THE OWNER OR HIS REPRESENTATIVE.
11. NO PLANTING SHALL OCCUR PRIOR TO ACCEPTANCE OF FINAL GRADING.
12. INSTALL PLANTS WITH ROOT FLARES FLUSH WITH GRADE. IMMEDIATELY REPLANT PLANTS WHICH SETTLE OUT OF PLUMB OR BELOW FINISH GRADE.
13. SEE SPECIFICATIONS FOR PLANTING MAINTENANCE AND GUARANTEE REQUIREMENTS.
14. THE LANDSCAPE ARCHITECT OR ENGINEER RESERVES THE RIGHT TO ADJUST FINAL GRADES IN THE FIELD TO SAVE EXISTING VEGETATION.
15. PLANT QUANTITIES NOTED IN THE PLANT SCHEDULE ARE APPROXIMATE AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING AND INSTALLATION OF ALL PLANT MATERIALS NOTED ON THE PLANTING PLAN.
16. CAUTION SHALL BE USED NOT TO EXTEND MULCH LAYER ABOVE SOIL LEVEL AT TRUNKS/STEMS OF INSTALLED PLANT MATERIAL.
17. PROVIDE FOUR (4) FOOT DIAMETER MULCH CIRCLE AROUND ALL INDIVIDUAL TREE PLANTINGS AND CONTINUOUS MULCH BED AROUND SHRUB, PERENNIAL AND GROUNDCOVER PLANTINGS, UNLESS OTHERWISE NOTED. DO NOT MOUND SOIL OR MULCH AT TRUNKS.
18. ALL PLANTING SHALL BE DONE UNDER FULL SUPERVISION OF CERTIFIED ARBORIST, NURSERYMAN, OR LICENSED LANDSCAPE ARCHITECT.
19. LOOSE OR CRACKED ROOTBALLS SHALL BE REJECTED.
20. CONCEPTUAL FILTERPAVE POROUS PAVING LAYOUT SHOWN FOR VISUAL EXAMPLE ONLY. CONTRACTOR TO COORDINATE WITH OWNER AND FILTERPAVE PRODUCTS LLC (780 COUNTY RD 122, HIGHBEE, MO 65257, PH:(660)248-1974) FOR FILTERPAVE POROUS PAVEMENT INSTALLATION, INCLUDING METAL SEPARATION BAND LAYOUT AND COLOR CHOICE. INSTALL FILTERPAVE IN ACCORDANCE WITH MANUFACTURERS' MINIMUM INSTALLATION REQUIREMENTS.

PLANT SCHEDULE							
TREES	CODE	QTY	BOTANICAL NAME	NOTES	SIZE		REMARKS
	AA	1	ACER PALMATUM 'ATROPURPUREUM' RED JAPANESE MAPLE	B & B	2.5" CAL		FULL SPECIMEN
SHRUBS	CODE	QTY	BOTANICAL NAME	NOTES	SIZE		REMARKS
	DG	9	DEUTZIA GRACILIS SLENDER DEUTZIA		3 GAL	24"-36"	
	IG	3	ILEX GLABRA INKBERRY HOLLY		5 GAL	24"-36"	
GRASSES	CODE	QTY	BOTANICAL NAME	NOTES	SIZE		REMARKS
	PR	22	PANICUM VIRGATUM 'RUBY RIBBONS' GREEN & RED SWITCH GRASS		2 GAL	18"-24"	
	PC	32	PENNISETUM ALOPECUROIDES 'CASSIAN'S CHOICE' CASSIAN FOUNTAIN GRASS		2 GAL	18"-24"	
	PH	31	PENNISETUM ALOPECUROIDES 'HAEMEL' HAEMEL DWARF FOUNTAIN GRASS		2 GAL	15"-18"	
GROUND COVERS	CODE	QTY	BOTANICAL NAME	CONT	ITEM	SPACING	REMARKS
	EP	152	ECHINACEA PURPUREA PURPLE CONEFLOWER	1 GAL		12" o.c.	
	PD	111	PHLOX DIVARICATA 'CLOUDS OF PERFUME' LAVENDER SWEET WILLIAM PHLOX	1 QT		12" o.c.	
	RG	52	RUDBECKIA FULGIDA 'GOLDSTRUM' CONEFLOWER	1 GAL		24" o.c.	



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PLANTING PLAN

Date:

JULY 17, 2018

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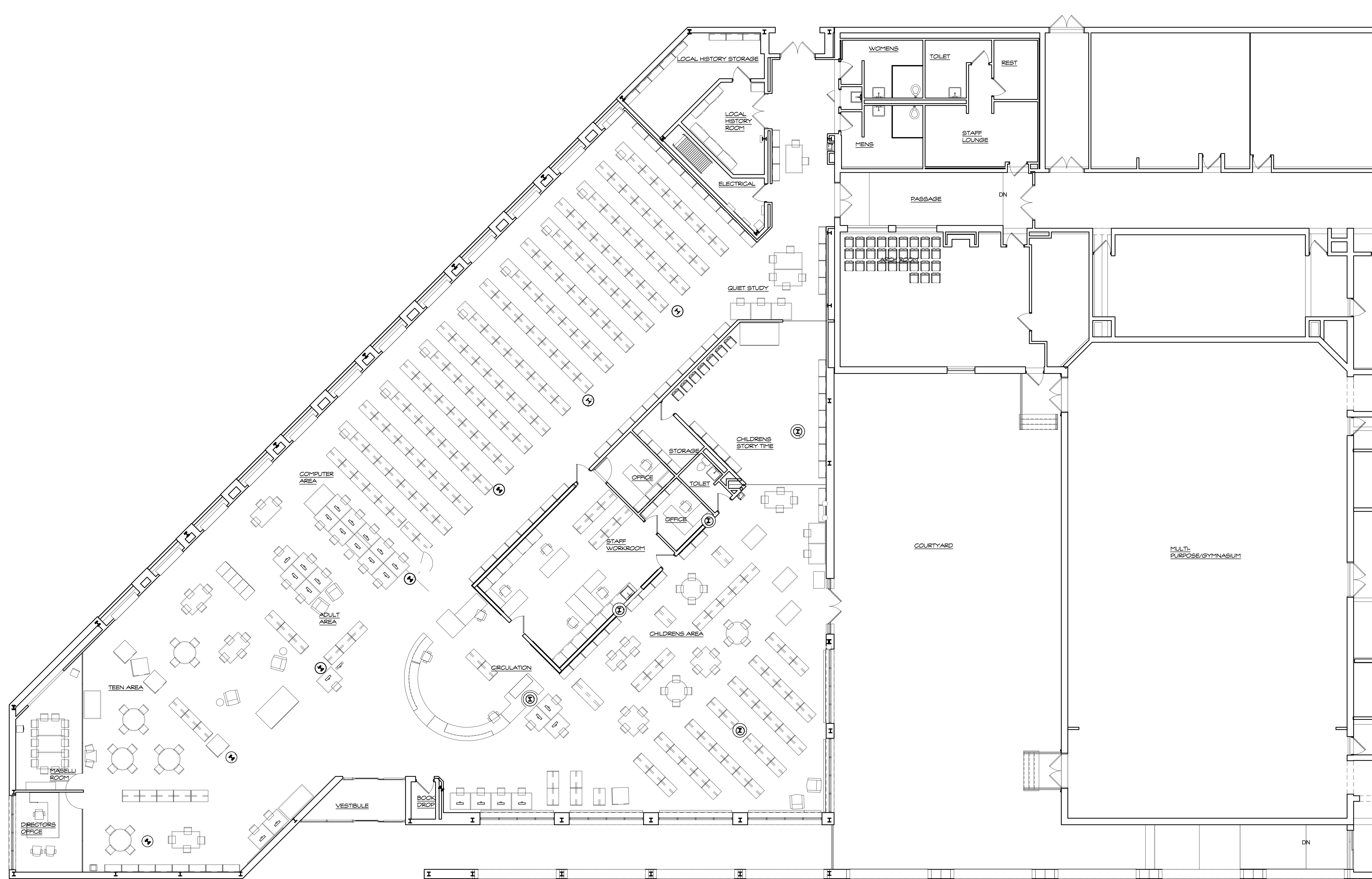
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Project Number:

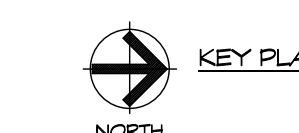
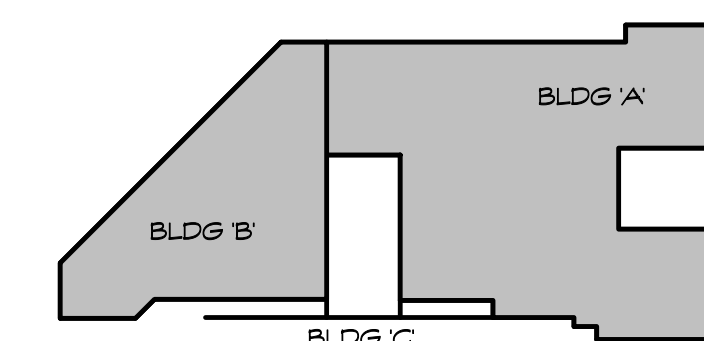
17.025

Drawing Number:

L-1.0




EXISTING MAIN LEVEL FLOOR PLAN
 SCALE: 1/8" = 1'-0"
 NORTH



Project Title:
TOWN OF CROMWELL
CROMWELL BELDEN PUBLIC LIBRARY
 39 WEST STREET
 CROMWELL, CT 06416



SILVER / PETRUCELLI + ASSOCIATES
 Architects / Engineers / Interior Designers

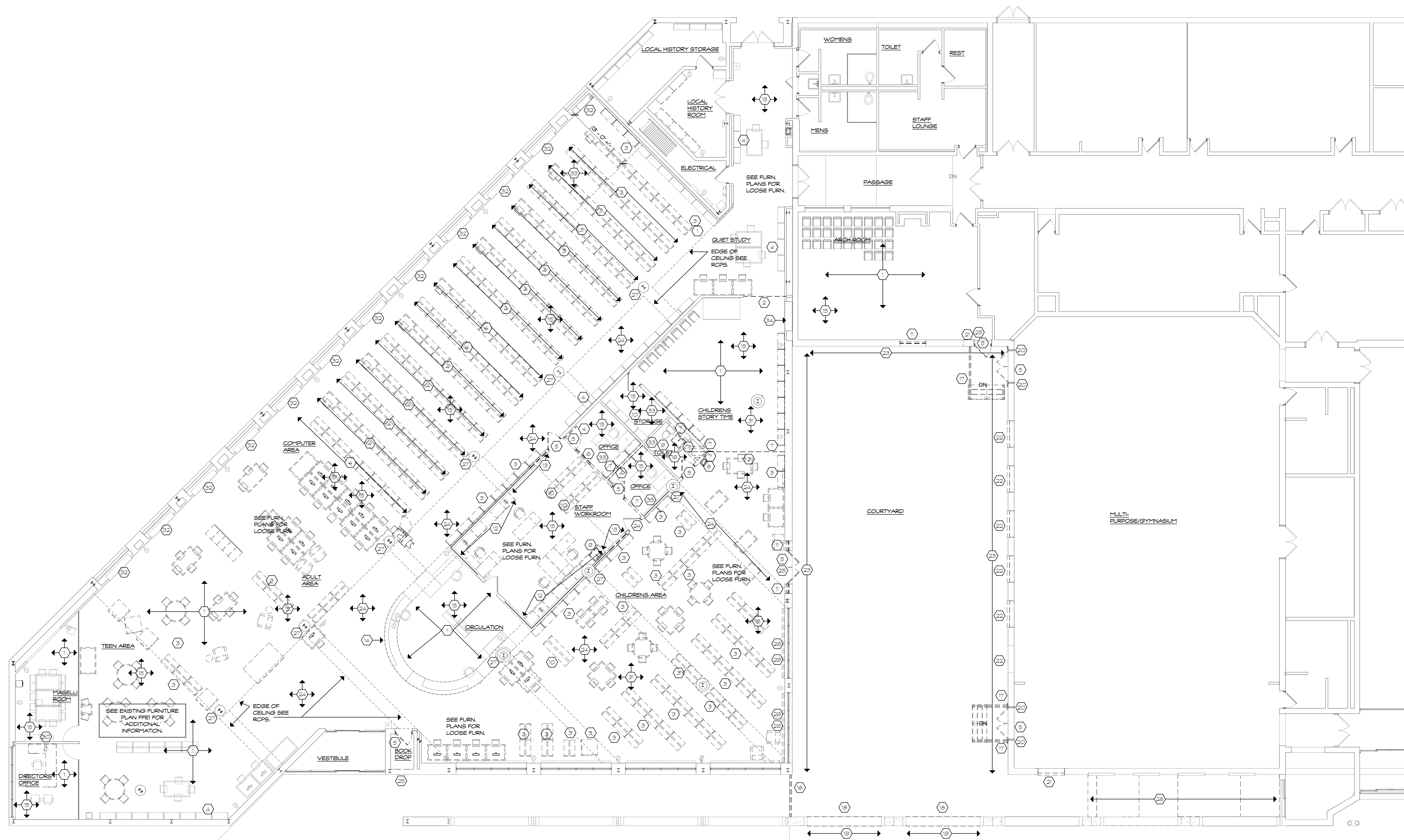
 3190 Whitney Avenue, Hamden, CT 06518-2340
 Tel. 203 230 9007 Fax. 203 230 8247
 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:

Drawing Title:
EXISTING FLOOR PLANS

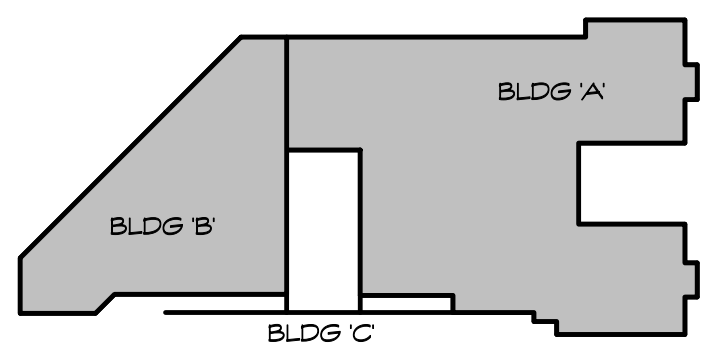
Date: JUL 17, 2018
 Scale: 1/8" = 1'-0"
 Drawn By: _____
 Author: _____
 Project Number: 17.025

A020




MAIN LEVEL DEMOLITION PLAN
 SCALE: 1/8" = 1'-0"
 1
 A030

DEMOLITION NOTES	
1	REM. EX. ACOUSTICAL CEILING TILES GRID TO REMAIN SEE CGL. PLANS
2	REM. EX. FOLDING PARTITION, TRACK, HARDWARE, & ACC.
3	REM. AND RELOCATE EXISTING STACKS
4	REM. AND REL. EX. STACKS IN PLACE, SEE FLOOR PLAN & PROJ. MAN.
5	REM. EX. DOOR AND FRAME
6	REM. EX. SIDEITE FRAME
7	REM. EX. METAL STUD AND GYPSUM PARTITION
8	REM. EX. DRINKING FOUNTAIN
9	REM. EX. PLUMBING FIXTURES
10	REM. AND REL. EX. BOOKCASES
11	REM. EX. STOREFRONT WINDOW FRAMING AND GLAZING, ETC.
12	REM. EX. CASEWORK, COUNTERS BACKSLASH, ETC.
13	REM. EX. PORTIONS OF BUTT GLAZING TRIM AND ACCESSORIES, REFER TO INTERIOR DETAILS TO COORDINATE WITH NEW WORK.
14	REM. EX. PORTIONS OF CIRCULATION DESK, SEE CASEWORK DETAILS FOR MORE INFORMATION
15	REM. EX. CARPET AND ACCESSORIES VINYL BASE ETC.
16	REM. EX. CERAMIC TILE, WALLS, FLOOR, AND GROUT TO SLAB
17	REM. EX. CONCRETE STOOP, RAILINGS, FOUNDATIONS, ETC.
18	REM. EX. WRAUGHT IRON FENCING
19	REM. EX. PRECAST CAP, BRICK WALL, AND PORTIONS OF COURSING TO TOP OF FOUNDATION. SEE DETAILS
20	REM. EX. PRECAST SURROUND
21	CUT OPENING AS REQD SEE FLOOR PLAN, DOOR SCHEDULES, ETC.
22	REM. EX. TRANSLUCENT WINDOW PANES, SILL, JAMB, TRIM, AND ACCESSORIES
23	REM. EX. GUTTER, DOWNSPOUT, ROOF EDGE, ETC. AS REQD FOR NEW FIREWALL SEE ROOF DETAILS AND SECTIONS
24	REM. EX. TEXTURED PAINT SEE PROJ. MAN. AND FINISH PLANS
25	CUT AND PATCH EXIST. BRICK AND BLOCK FOR BOOK DROP
26	REM. EX. RADIANT SEE MECHANICAL DWGS.
27	REM. EX. HOOKS & HWARE APP. 5 PER COLUMN TYP. V.I.F.
28	REM. EX. BRICK WALL, CONCRETE, SIDEWALKS, ETC. AS REQD FOR NEW RAMP SEE CIVIL
29	REM. EX. SILL @ WINDOW AS REQD FOR INFILL
30	EXISTING CASEWORK TO REMAIN
31	FURNITURE REMOVAL AND REPLACEMENT SEE PFE DRAWINGS
32	FURNITURE REMOVAL AND REPLACEMENT SEE PFE DRAWINGS
33	REM. EX. ACOUSTICAL CEILING TILES GRID AND ACCESSORIES
34	REM. EX. BUILT-IN SHELVING UNITS




KEY PLAN
 NORTH

Project Title:
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CROMWELL BELDEN PUBLIC LIBRARY
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 CROMWELL, CT 06416



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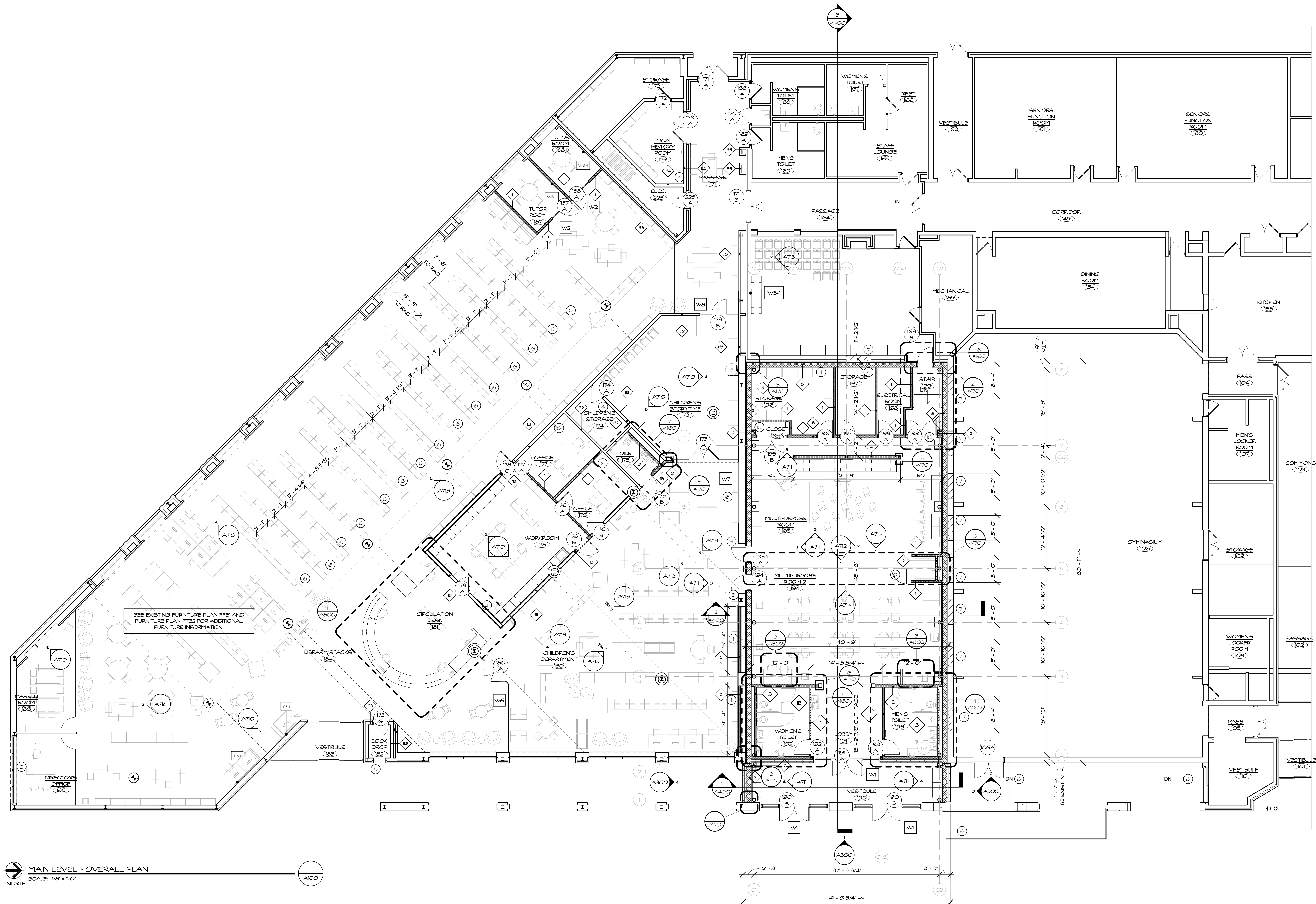
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Revision:	Description:	Date:	Revised By:

Drawing Title:
DEMOLITION PLANS

Date: JUL 17, 2018
 Scale: 1/8" = 1'-0"
 Drawn By:
 Author:
 Project Number: 17.025
 Drawing Number:

A030

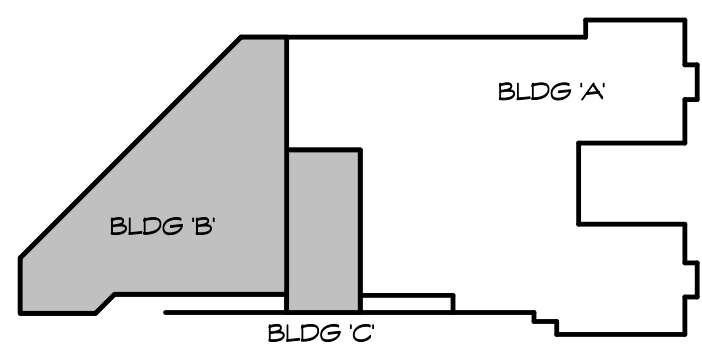


MAIN LEVEL - OVERALL PLAN
SCALE: 1/8" = 1'-0"
1 A100

SYMBOL LEGEND	
	- EXISTING WALLS
	- NEW METAL STUD PARTITIONS
	- NEW MASONRY WALL
	- NEW CMU WALL
	- DOOR NUMBER
	- WINDOW TYPE
	- ROOM NAME - ROOM NUMBER
	- PARTITION TYPE
	- CONSTRUCTION NOTE
	- DOOR NUMBER
	- EXTERIOR ELEVATION NUMBER
	- SHEET NUMBER
	- INTERIOR WINDOW ELEVATION NUMBER
	- SHEET NUMBER
	- BUILDING SECTION NUMBER - SHEET NUMBER
	- WALL SECTION NUMBER - SHEET NUMBER
	- ACCESSIBLE FLOOR SPACE
	- WALL MOUNTED FIRE EXTINGUISHER
	- FLOOR DRAIN - SLOPE TILE TO DRAIN

- GENERAL NOTES
1. READ ALL GENERAL NOTES ON DRAWING A001.
 2. CONTRACTORS SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS.
 3. PATCH TO MATCH ALL EXISTING WALLS AND CEILINGS TO REMAIN AFFECTED BY NEW WORK.
 4. ALL DIMENSIONS ARE TO OUTSIDE FACE OF BRICK, CONCRETE MASONRY UNITS AND METAL FRAMING UNLESS OTHERWISE NOTED.
 5. ALL NEW WALL AND PARTITION ASSEMBLIES SHALL EXTEND TO UNDERSIDE OF DECK UNLESS OTHERWISE NOTED.
 6. PROVIDE CMU WITH PRE-MANUFACTURED BULLNOSE AT ALL EXPOSED CORNERS.
 7. WHERE THE WORD 'ALIGN' IS INDICATED IT SHALL MEAN TO ALIGN BOTH SIDES OF WALL.

- CONSTRUCTION NOTES - PLAN
1. INFILL EXISTING WINDOW OPENINGS FLUSH WITH INTERIOR.
 2. PROVIDE WINDOW FILM ON INTERIOR FACE SEE PROJ. MAN.
 3. FURRING ON BOTH SIDES OF FIREWALL THIS LOCATION SEE INTERIOR.
 4. WALL MOUNTED FIRE EXTINGUISHER.
 5. INSTALL BOOK DROP AND TOOTH IN AS REQD SEE PROJ. MAN.
 6. RELOCATED TALL BOOKSTACKS, CONTRACTOR TO VERIFY IN FIELD ALL DIMENSIONS PRIOR TO RELOCATION AND INSTALL OF STACK LIGHTING. PROVIDE SHOP DRAWING FOR APPROVAL.
 7. INFILL EXISTING KALWALL WINDOWS AND DOOR OPENINGS WITH BRICK VENEER TO MATCH EXISTING APPROX. 50 SQ. FT. PER OPENING.
 8. NEW CONCRETE RAMP AND RAILING SEE CIVIL PLANS AND ELEVATIONS FOR RAILING DETAILS.
 9. FOLDING PARTITION ASSEMBLY - SEE DETAILS, STRUCTURAL DRAWINGS, AND PROJ. MAN. FOR REQUIREMENTS. PROVIDE WITH EXIT SIGNS AND EGRESS DOOR SEE CODE PLAN.
 10. 1'-0" x 1'-0" CHASE AS REQD FOR ROOF DRAINAGE.



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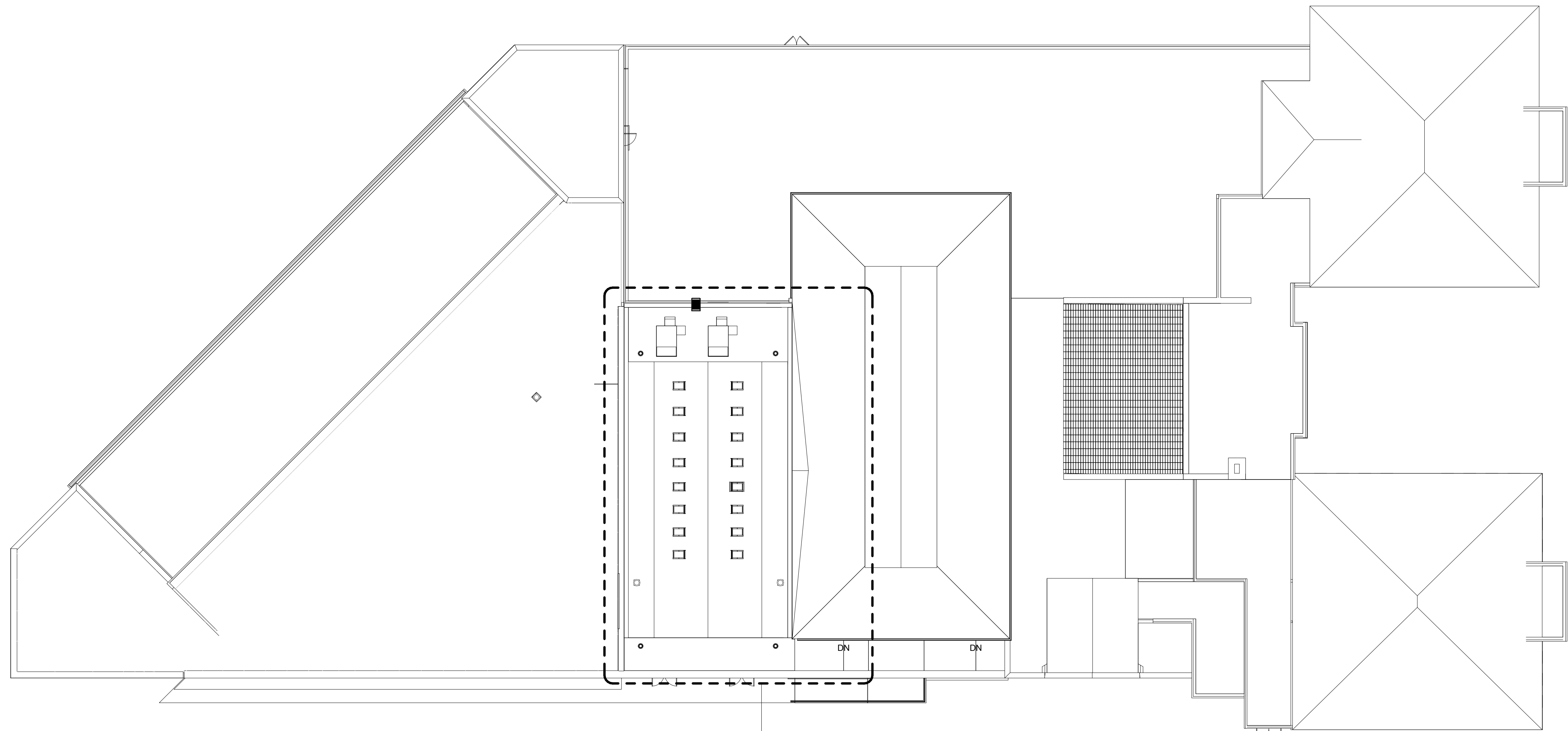
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Revision:	Description:	Date:	Revised By:

Drawing Title:
MAIN LEVEL FLOOR PLAN

Date: JUL 17, 2018
Scale: As Indicated
Drawn By: A100
Author: A100
Project Number: 17.025



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

1
A150

2
A150

NEW ROOF 'B': 525 S.F. +/- V.I.F.
ROOF SYSTEM: SINGLE PLY MEMBRANE
DECK: METAL
INSULATION:
4" FLAT POLYISO
FASTENING SYSTEM: MECHANICAL FASTENERS.
ROOF ELEVATION 14'-2"

NEW ROOF 'A': 3,169 S.F. +/- V.I.F.
ROOF SYSTEM: SINGLE PLY MEMBRANE
DECK: METAL
INSULATION:
4" FLAT POLYISO
FASTENING SYSTEM: MECHANICAL FASTENERS.
ROOF ELEVATION VARIES WITH SLOPE 14'-9" TO 27'-9" AVERAGE ROOF HEIGHT 21'-3"

NEW ROOF 'C': 325 S.F. +/- V.I.F.
ROOF SYSTEM: SINGLE PLY MEMBRANE
DECK: METAL
INSULATION:
4" FLAT POLYISO
FASTENING SYSTEM: MECHANICAL FASTENERS.
ROOF ELEVATION 14'-2"

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

2
A150

SYMBOL LEGEND

- PLAN, SECTION, DETAIL OR ELEVATION NUMBER- SHEET NUMBER
- SL - INDICATES SLOPE DIRECTION OF TAPERED INSULATION @ 1/4": 1'-0"
- HP - INDICATES HIGH POINT OF INSULATION.
- N.R.D. - ROOF DRAIN & SUMP TO BE INSTALLED. SEE DETAIL A/A151
- D.R.D. - DUAL ROOF DRAIN & SUMP TO BE INSTALLED. SEE DETAIL K/A151
- S.C. - SCUPPER WITH METAL COLLECTION BOX. SEE DETAIL- L/A151
- D.S. - METAL DOWNSPOUT.
- V. - VENT STACK. SEE DETAIL- J/A151
- A.H.U. - MECHANICAL UNIT. -SEE DETAIL C/A151
- P.P. - PITCH POCKET. -SEE DETAIL B/A151
- WALK WAY PADS. -SEE CONSTRUCTION NOTE # 2
- E.J. - EXPANSION JOINT. SEE EDGE DETAILS
- R.L. - NEW METAL LADDER. -SEE CONSTRUCTION NOTE #5 AND G/A151
- BR/V/EF - MECH. UNIT SEE DETAIL D/A151
- O.S. - OVERFLOW SCUPPER SEE DETAIL E/A151
- S.K.L. - SKYLIGHT SEE DETAIL H/A151

GENERAL NOTES

- ALL FLAT ROOFS TO RECEIVE 1/4" SLOPE TO EITHER NEW OR EXISTING ROOF AREAS.
- FIELD VERIFY ALL DIMENSIONS @ EACH ROOF PRIOR TO BID.
- ALL MATERIALS ARE NEW UNLESS OTHERWISE NOTED 'EXISTING'.
- ALL WOOD BLOCKING, PLYWOOD & NAILERS ARE TO BE FIRE TREATED (F.R.T.)
- ALL WOOD BLOCKINGS INDICATED IN DETAILS ARE TO BE ANCHORED TO THE EXISTING STRUCTURE.
- NEW TAPERED INSULATION SYSTEM TO BE ADHERED DIRECTLY TO EXISTING OR NEW DECKING SEE PLAN AND PROJ. MAN.
- ALL MEMBRANE FLASHING INDICATED IS TO EXTEND A MINIMUM OF 6" (VERTICAL OR HORIZONTAL).
- CONTRACTOR TO INSPECT THE UNDERSIDE OF ALL ROOFS PRIOR TO ROOFING OPERATIONS TO INSURE THAT NO INTERIOR MATERIALS, EQUIPMENT FINISHES OR OBJECTS WILL BE DAMAGED.
- CONTRACTOR ASSUMES ALL RESPONSIBILITY DURING PROJECT & WILL REPLACE ANY & ALL DAMAGED EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.
- SITE AREAS DISTURBED SHALL BE CLEANED & RE-LEVELLED. W/ LAWN AREAS MAGNETICALLY RAKED TO REMOVE ANY METAL DEBRIS & RE-SEED AS REQUIRED TO MATCH ADJACENT CONDITIONS.
- CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR CLEAN UP OF ROOFING MATERIALS & DEBRIS THAT PENETRATE THE INTERIOR ENVELOPE OF THE BUILDING W/ NO ADDITIONAL COST TO THE OWNER.
- SNAKE/ CLEAN OUT ALL EXISTING VERTICAL & HORIZONTAL LEADERS OUT TO NEAREST MANHOLE OUTSIDE OF BUILDING.
- ALL CRICKETS ARE TO BE A MINIMUM OF 1/2" PER FOOT & COORDINATE CRICKETS AROUND EXISTING HVAC UNITS AS REQUIRED TO AVOID PONDING.
- ALL DRAIN PIPING IS TO BE INSULATED ABOVE THE CEILINGS. THE EXACT ROUTE IS TO BE DETERMINED IN THE FIELD, MAKE MINOR ADJUSTMENTS TO THE ROUTE AT NO ADDITIONAL COST TO THE OWNER.
- NEW INSULATION TO BE A MINIMUM 3" BASE LAYER BENEATH ALL TAPERED INSULATION.
- ALL ANTENNAS, CONDUITS & ANY OTHER OBJECTS TO REMAIN AFFECTED BY THE SCOPE OF WORK TO BE TEMPORARILY REMOVED & REINSTALLED.
- ELEVATION MEASUREMENTS TAKEN FROM TOP OF DECK.
- ALL ROOFING INSULATION IS RIGID TAPERED WITH PROTECTION BOARD, UNLESS NOTED OTHERWISE

CONSTRUCTION NOTES

- CONTRACTOR TO CLEAN ALL ROOF AREAS WHERE EXISTING ROOFING SYSTEMS ARE TO REMAIN PRIOR TO THE INSTALLATION OF NEW ROOFING SYSTEM.
- WALKWAY PADS TO BE INSTALLED @ ALL MECHANICAL UNIT LOCATIONS. CONTRACTOR TO COORDINATE WITH ARCHITECT THE EXACT ROUTE OF PADS IN THE FIELD.
- INSTALL NEW METAL DOWNSPOUTS @ ALL INDICATED SCUPPER COLLECTION BOX LOCATIONS. -SEE PROJECT MANUAL FOR ADDITIONAL INFORMATION.
- INSTALL NEW CONCRETE BRASH BLOCKS @ ALL INDICATED METAL DOWNSPOUT LOCATIONS. -SEE PROJECT MANUAL FOR ADDITIONAL INFORMATION.
- OVERLAP CRICKET ON EXISTING STRUCTURE. -SEE SECTIONS, ROOF DETAILS, AND STRUCTURAL DRAWINGS.

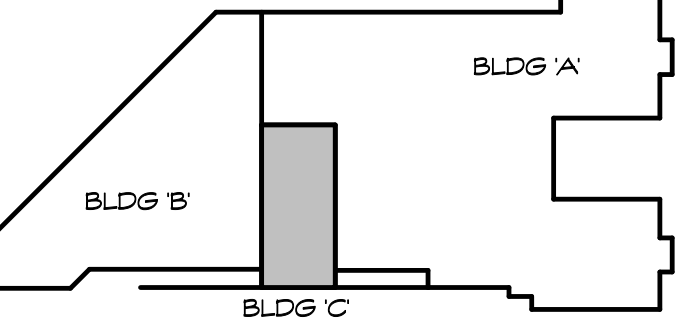
CODE INFORMATION

USE GROUP: A-3
CONSTRUCTION CLASS: 2B
BASIC WIND SPEED: 100 MPH
SURFACE ROUGHNESS EXPOSURE: B
IMPORTANCE FACTOR: 1.15

FACTORY MUTUAL ENGINEERING & RESEARCH CORPORATION (FM):
ROOF ASSEMBLY CLASSIFICATION OF NON-COMBUSTIBLE
CONSTRUCTION, WIND UPLIFT REQUIREMENT OF 1420 FOR FIELD,
1800 FOR PERIMETER & 1420 FOR CORNERS, IN ACCORDANCE
WITH FM PROPERTY LOSS PREVENTION DATA SHEETS 1-25

ROOF SQ. FOOT

Type Mark	Area
EXISTING ROOFS	66,201 SF
ROOF A	3,169 SF
ROOF B	525 SF
ROOF C	325 SF
Grand total	70,220 SF



KEY PLAN
NORTH

Project Title:
TOWN OF CROMWELL
CROMWELL BELDEN PUBLIC LIBRARY
39 WEST STREET
CROMWELL, CT 06416



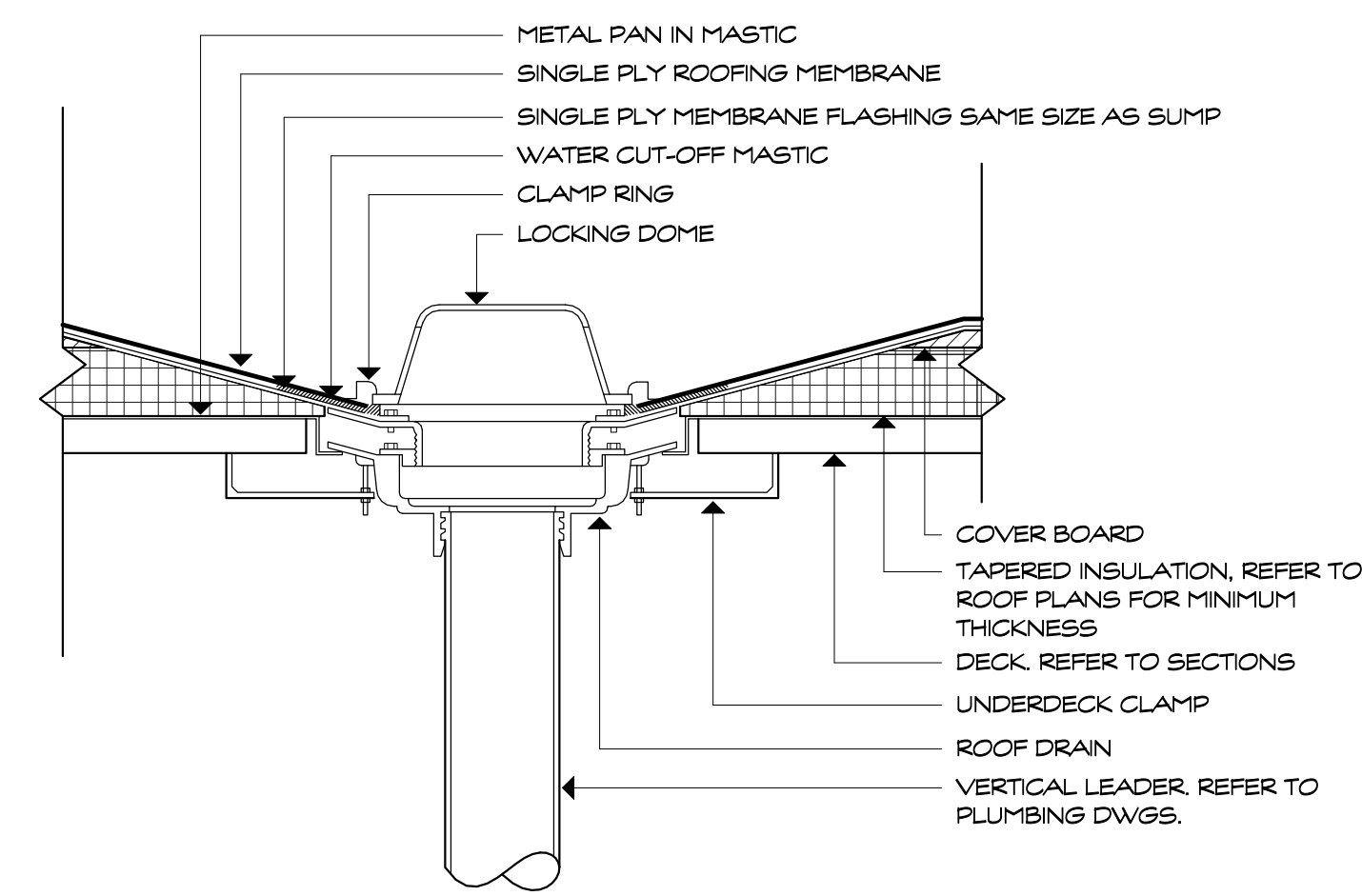
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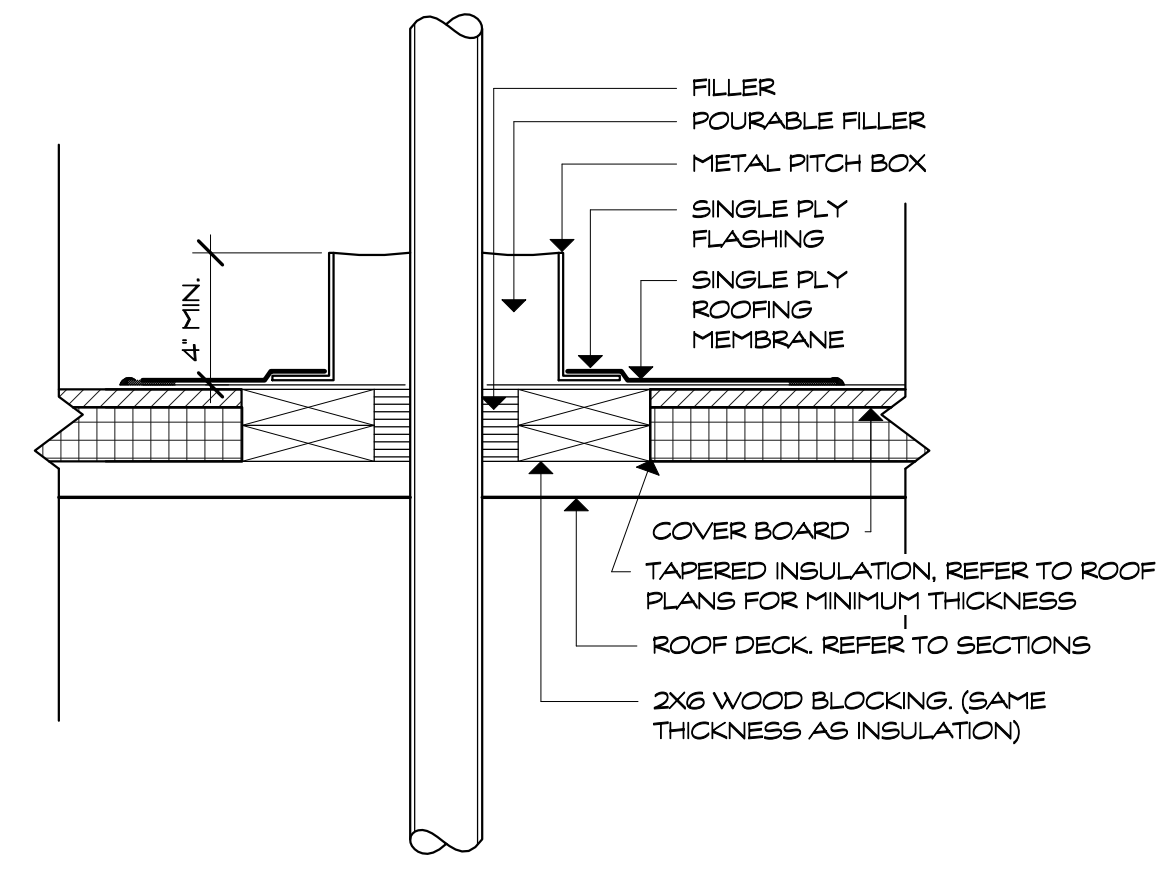
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Drawing Title:
ROOF PLAN

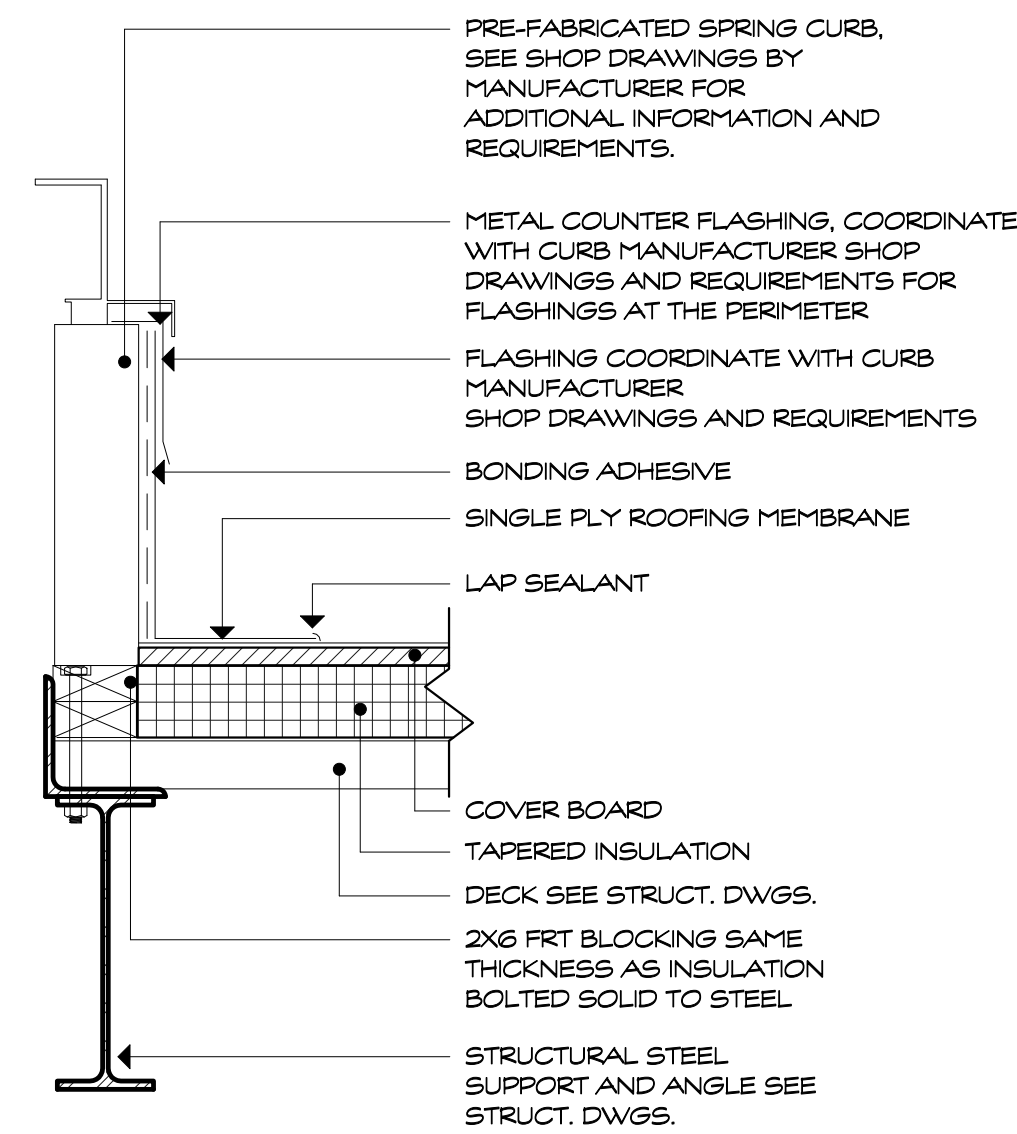
Date: JUL 17, 2018
Scale: As Indicated
Drawn By:
Author:
Project Number: 17.025
Drawing Number: **A150**



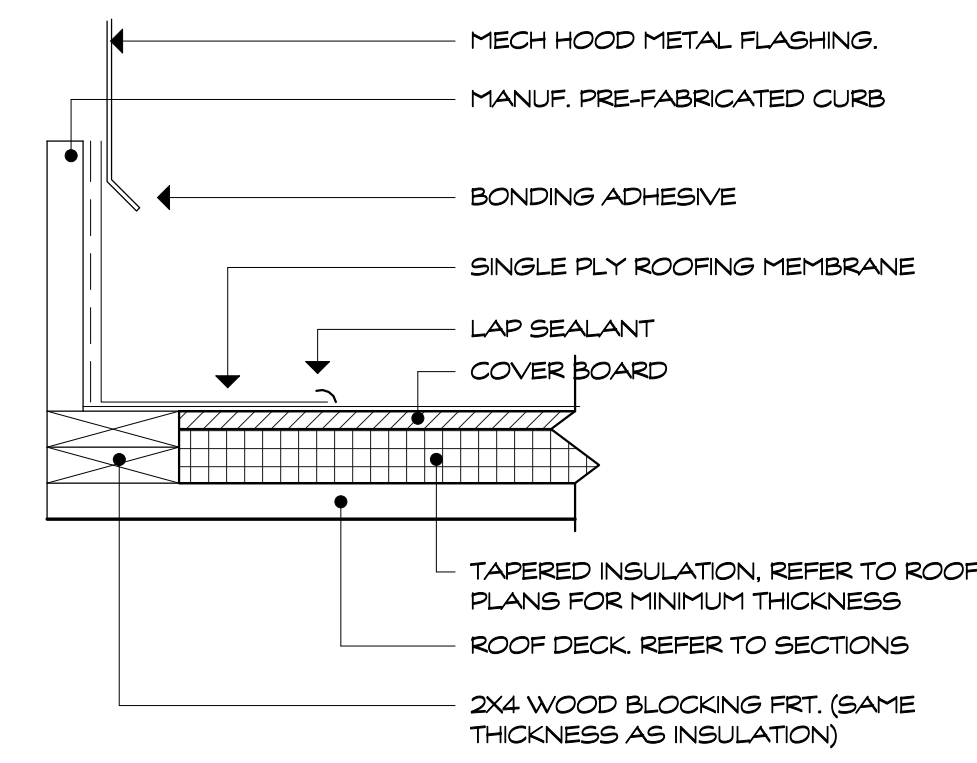
ROOF DRAIN DETAIL
SCALE: 1/2" = 1'-0"



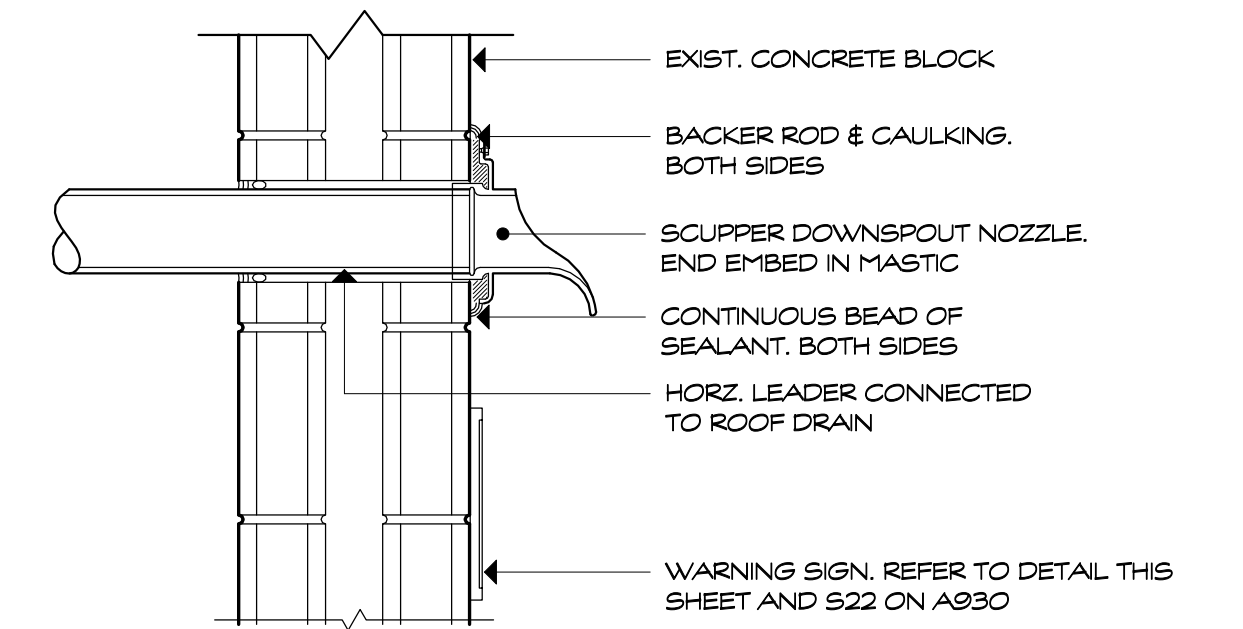
PITCH POCKET DETAIL
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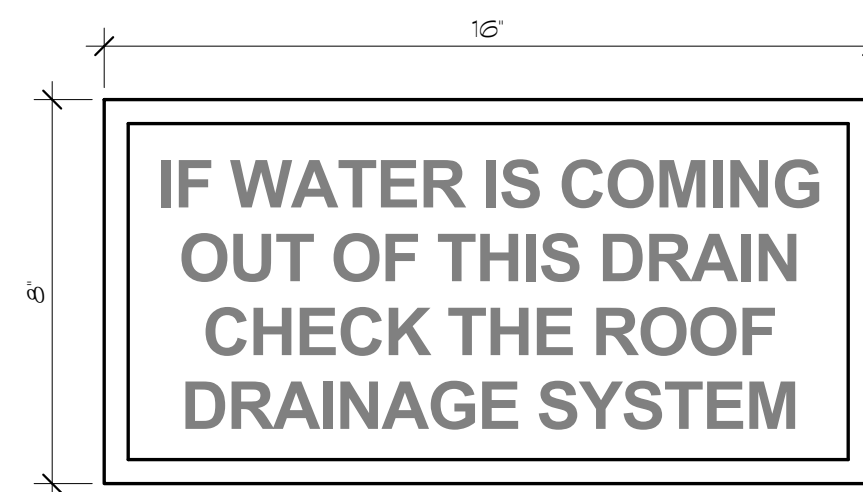
MECH CURB DETAIL
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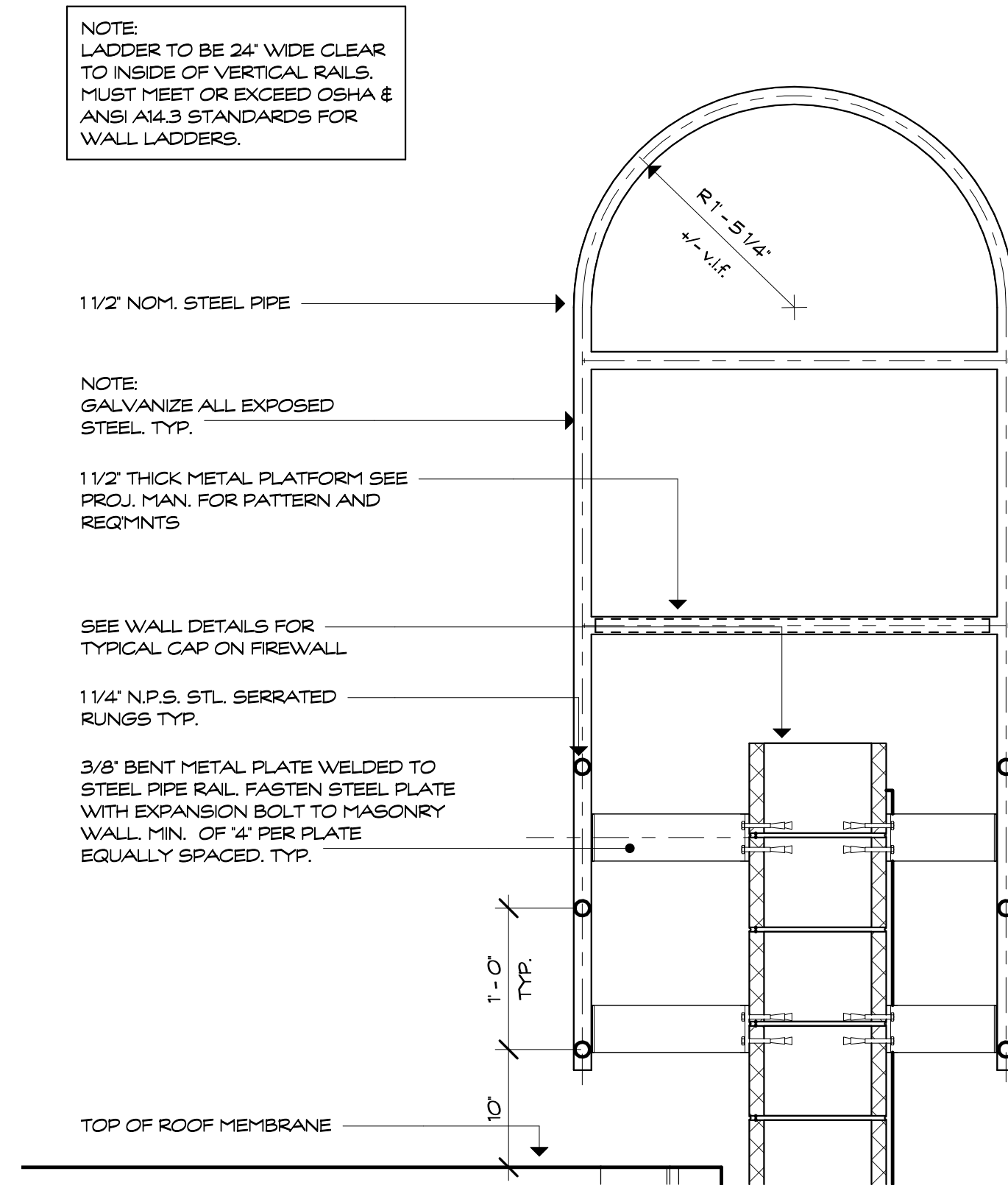
FAN CURB DETAIL
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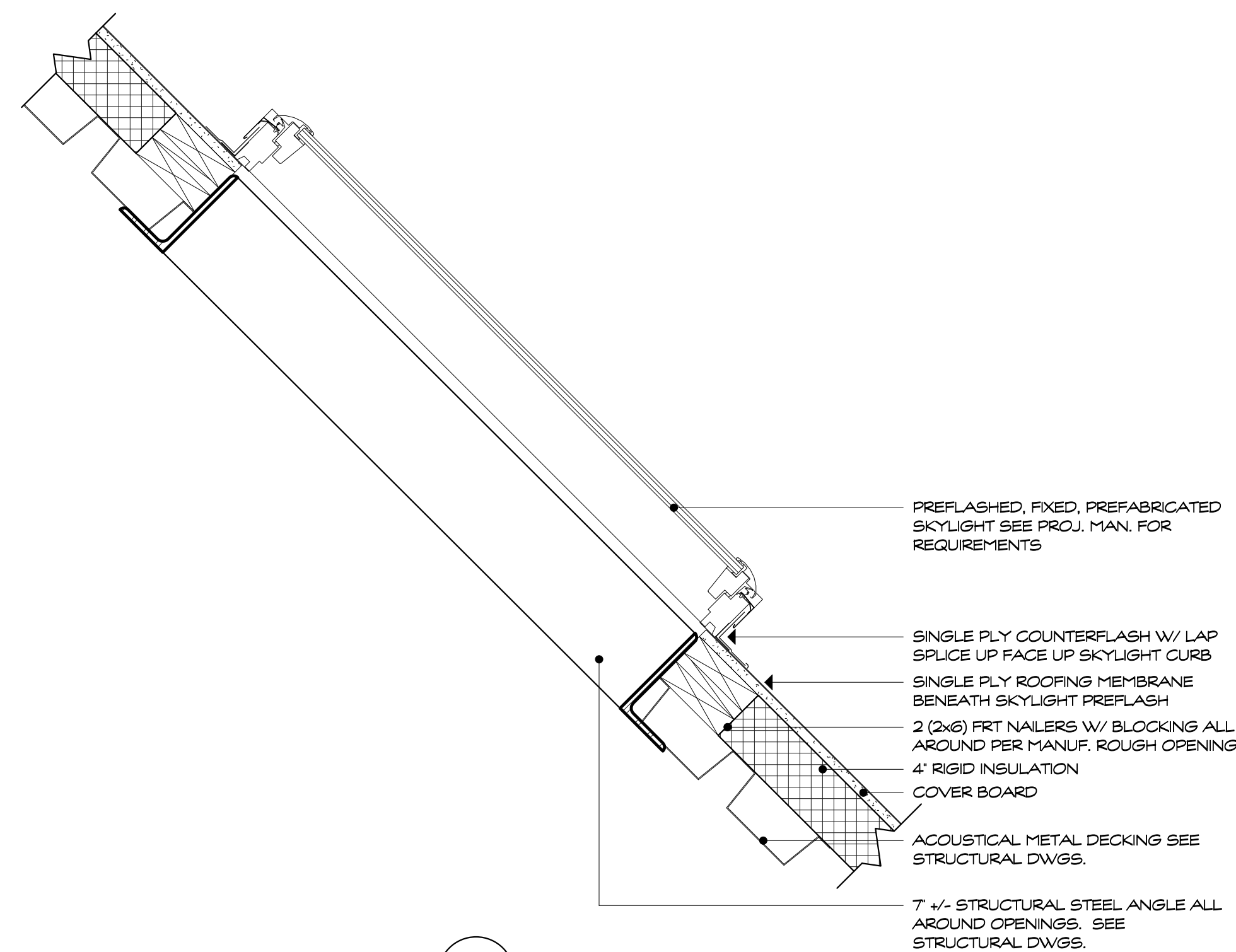
SCUPPER DETAIL
SCALE: 1/2" = 1'-0"



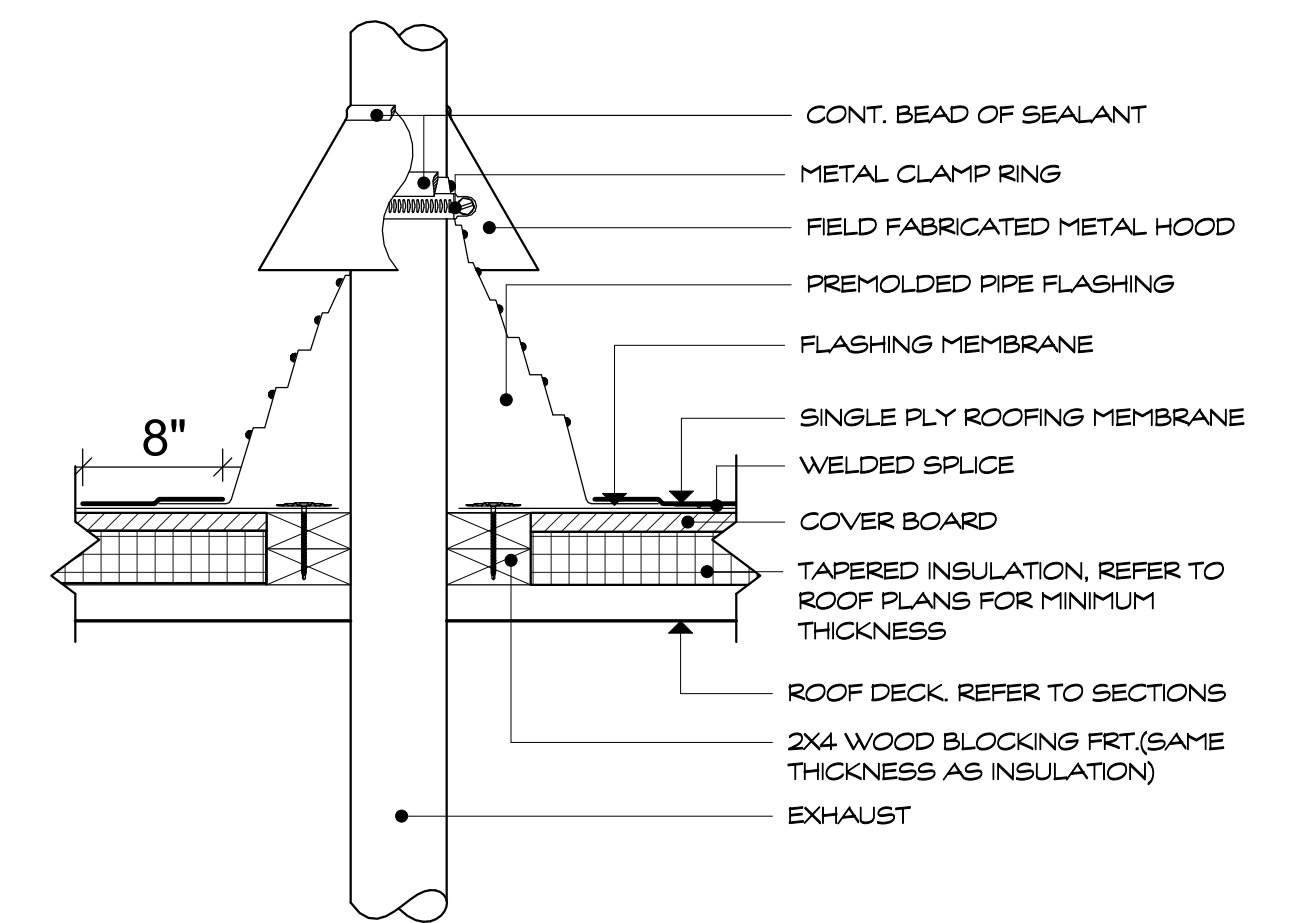
WARNING SIGN DETAIL
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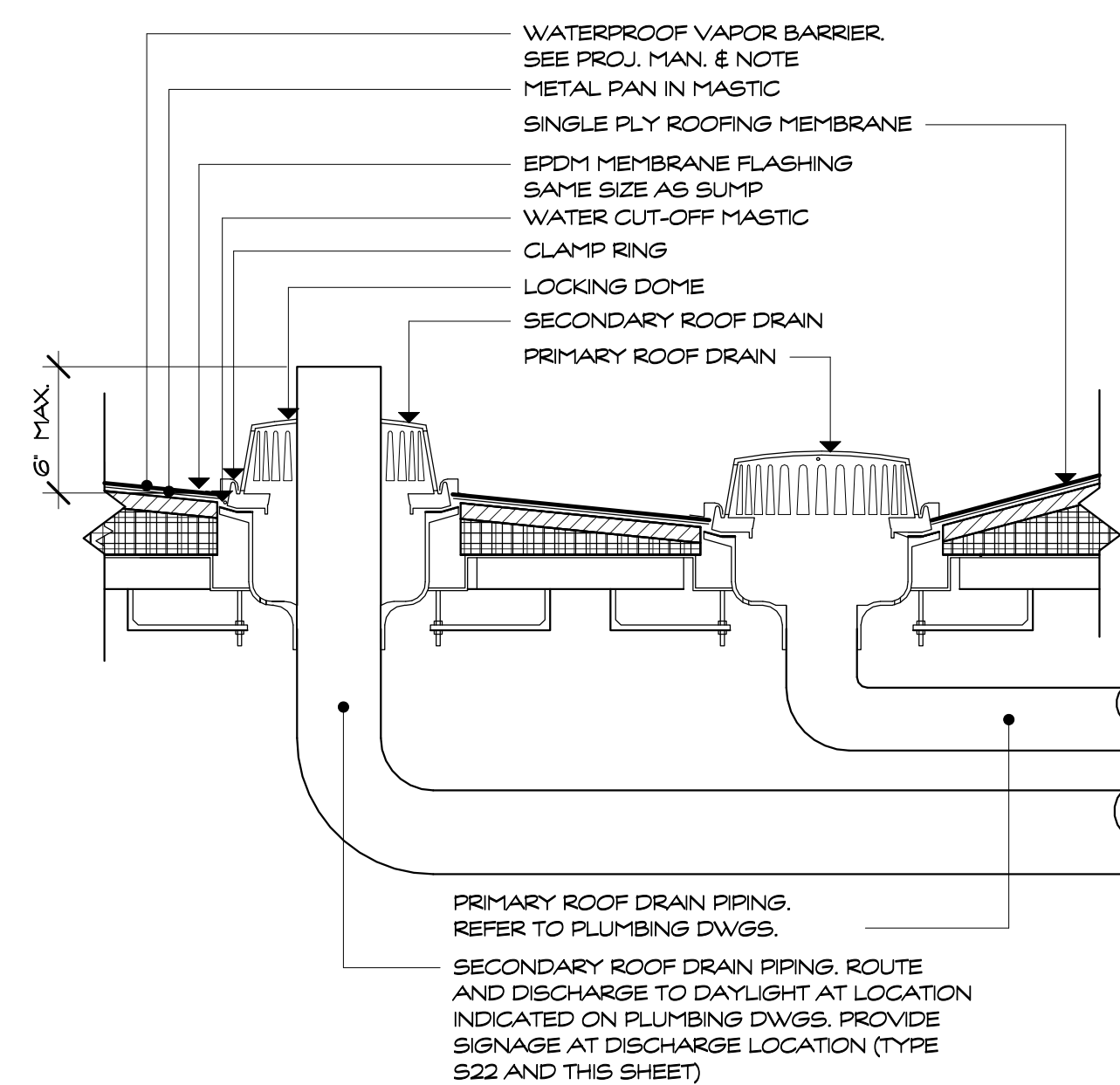
ROOF LADDER
SCALE: 1" = 1'-0"



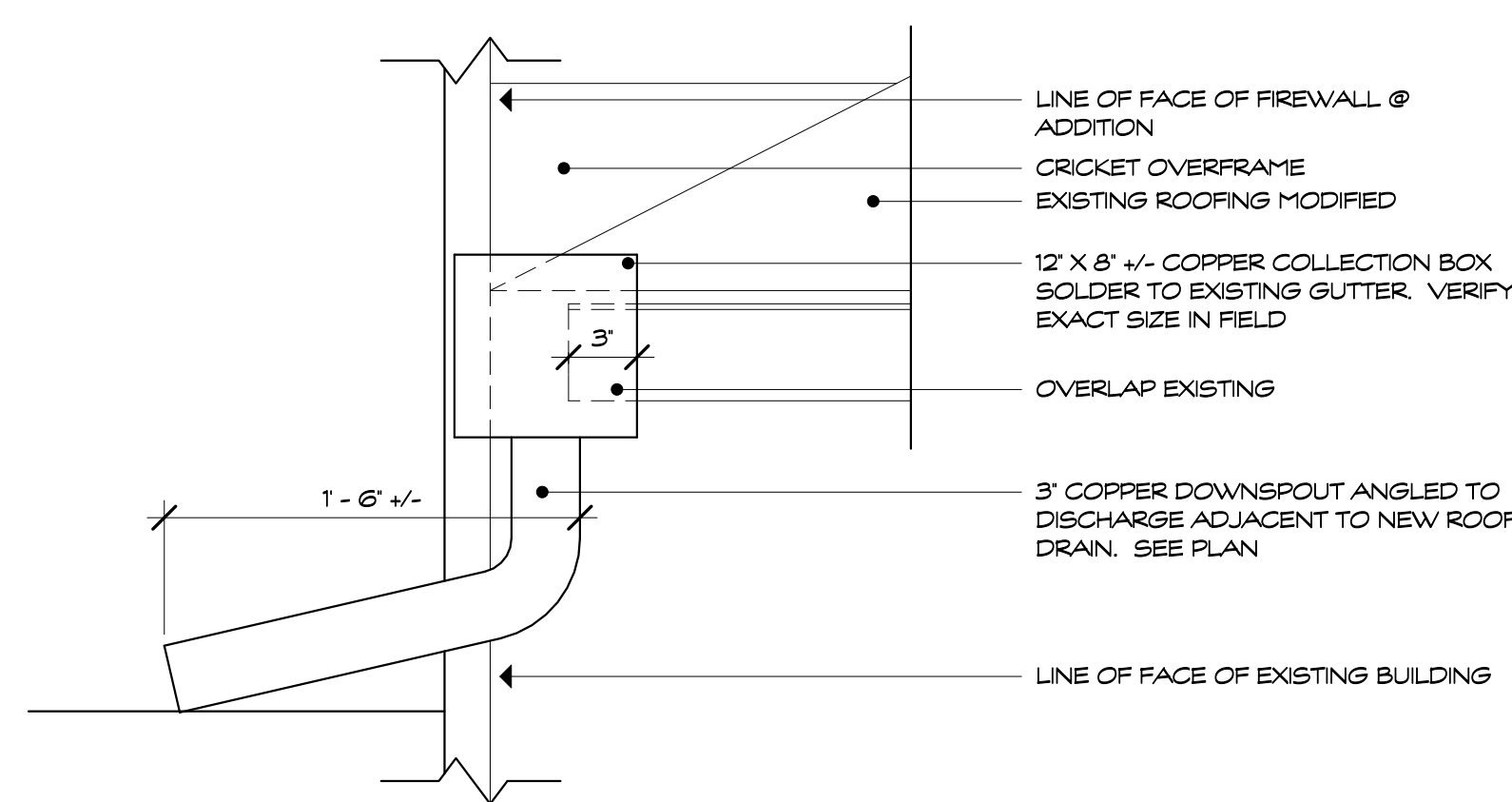
SKYLIGHT DETAIL
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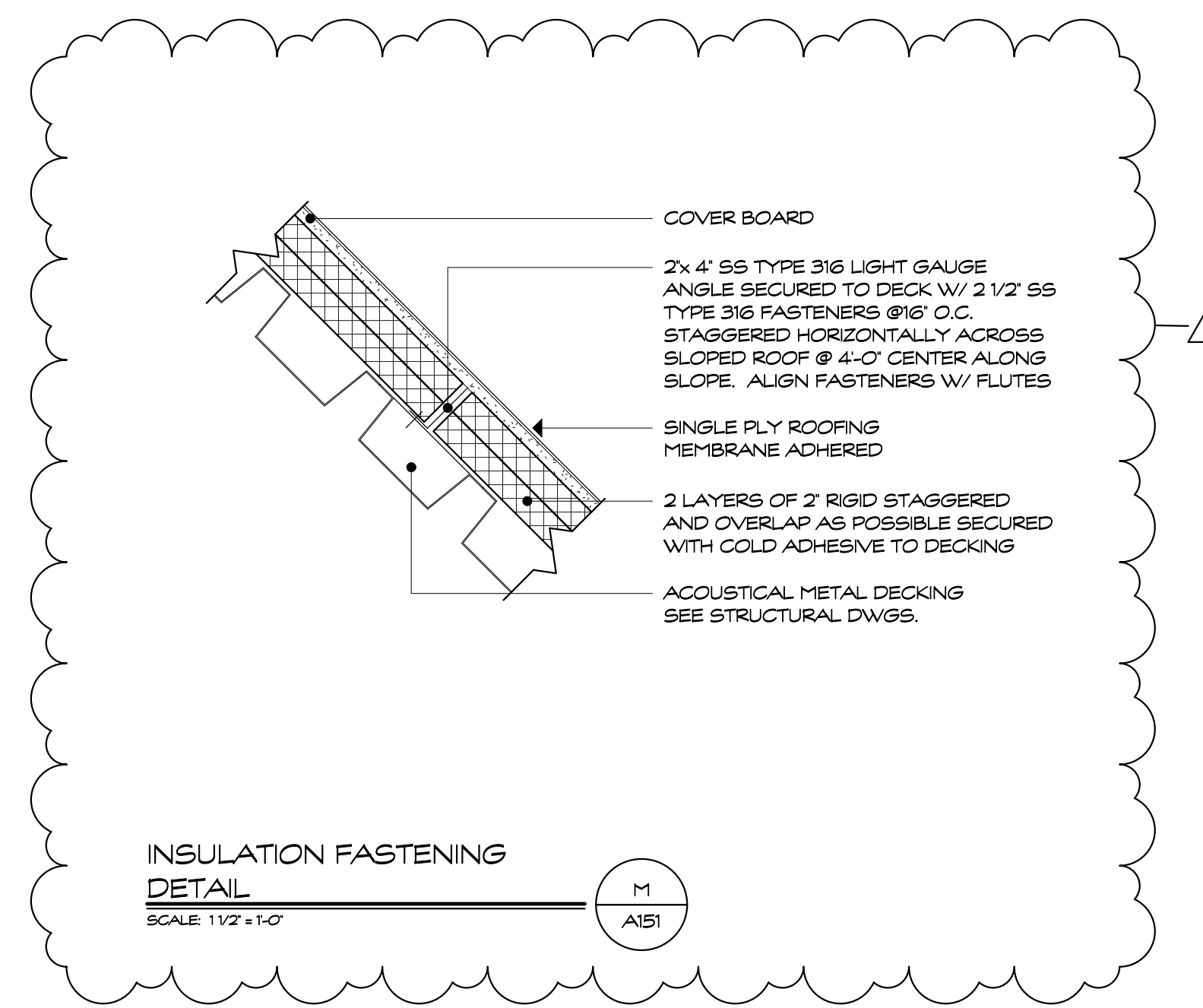
VENT STACK DETAIL
SCALE: 1/2" = 1'-0"



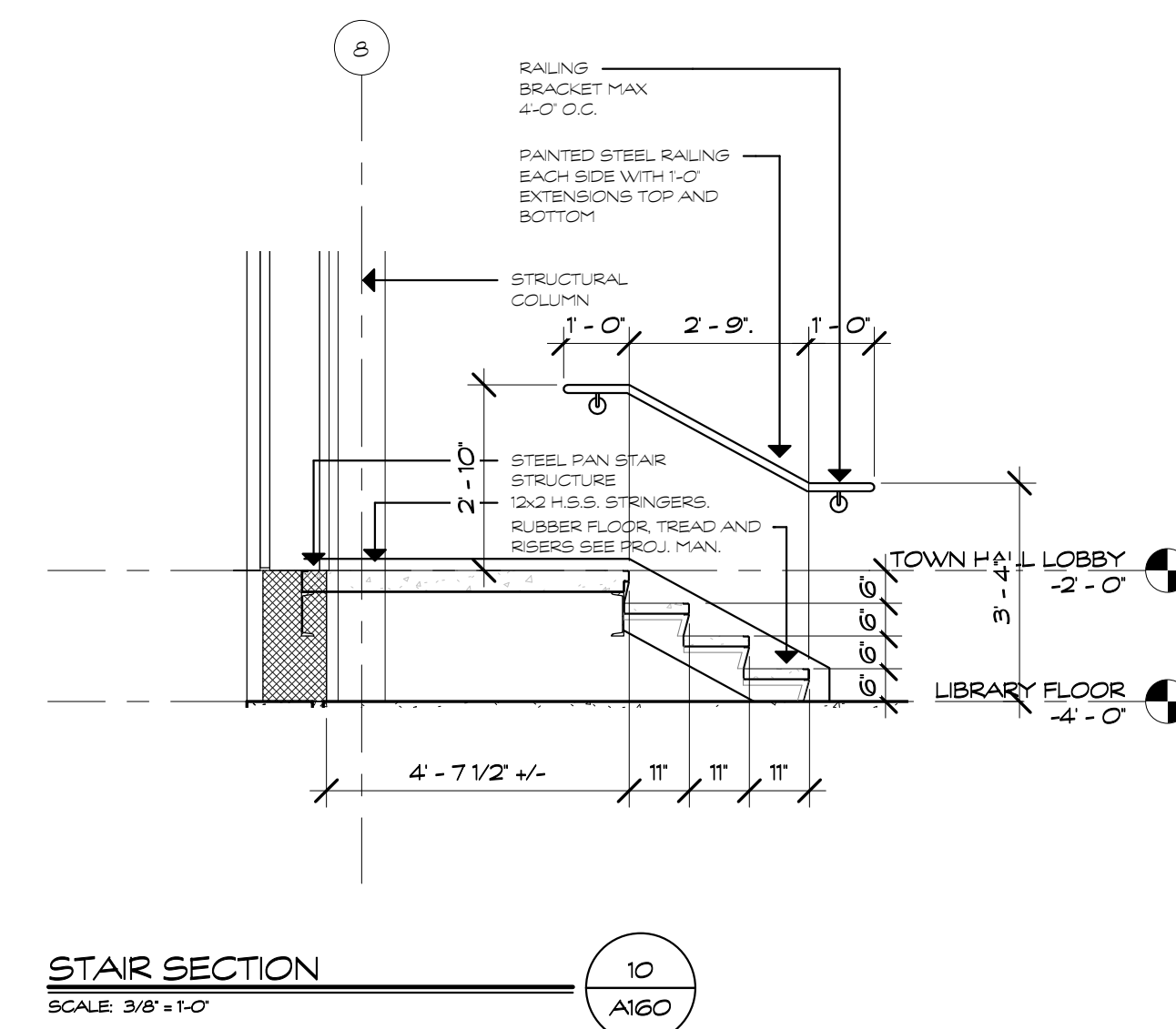
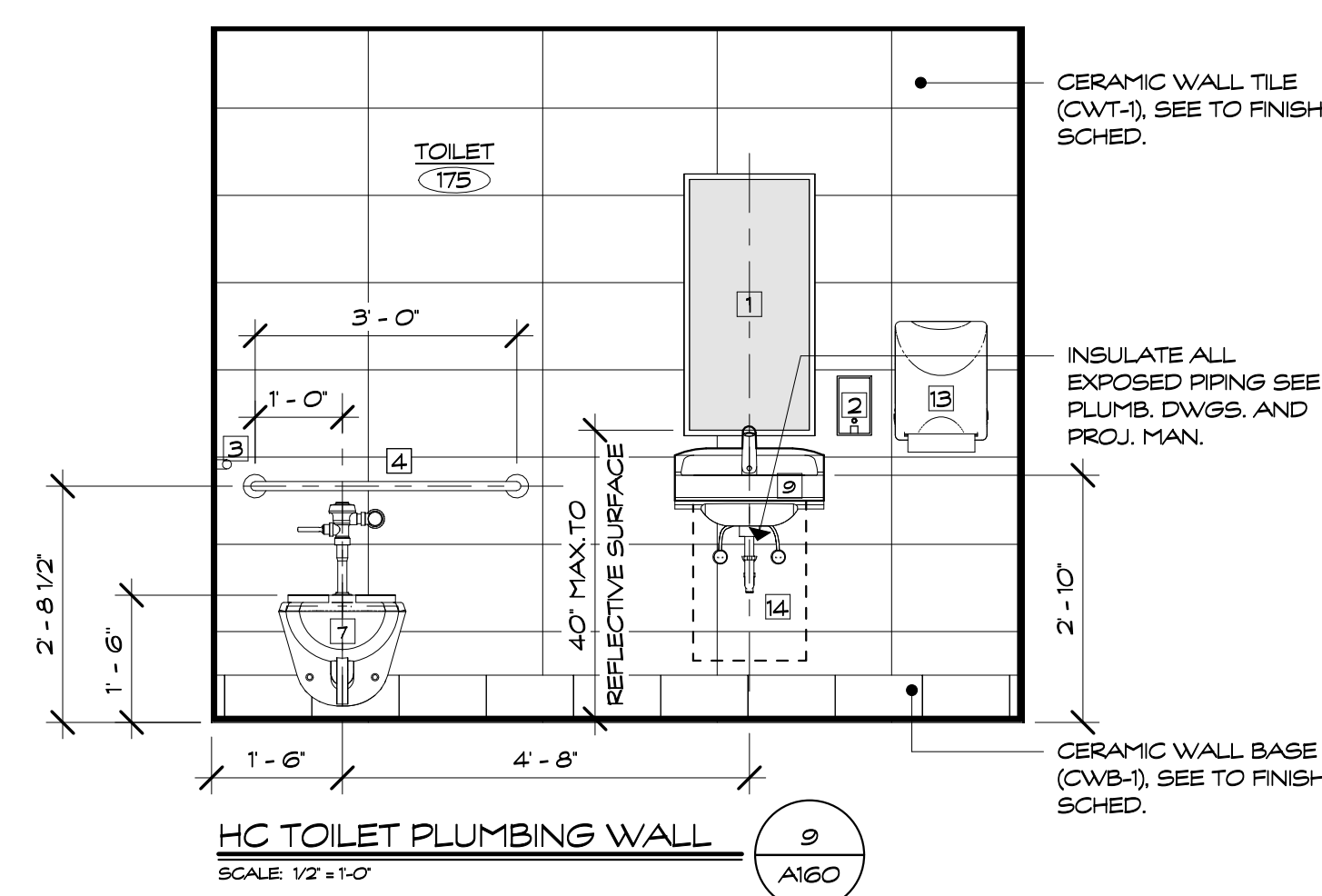
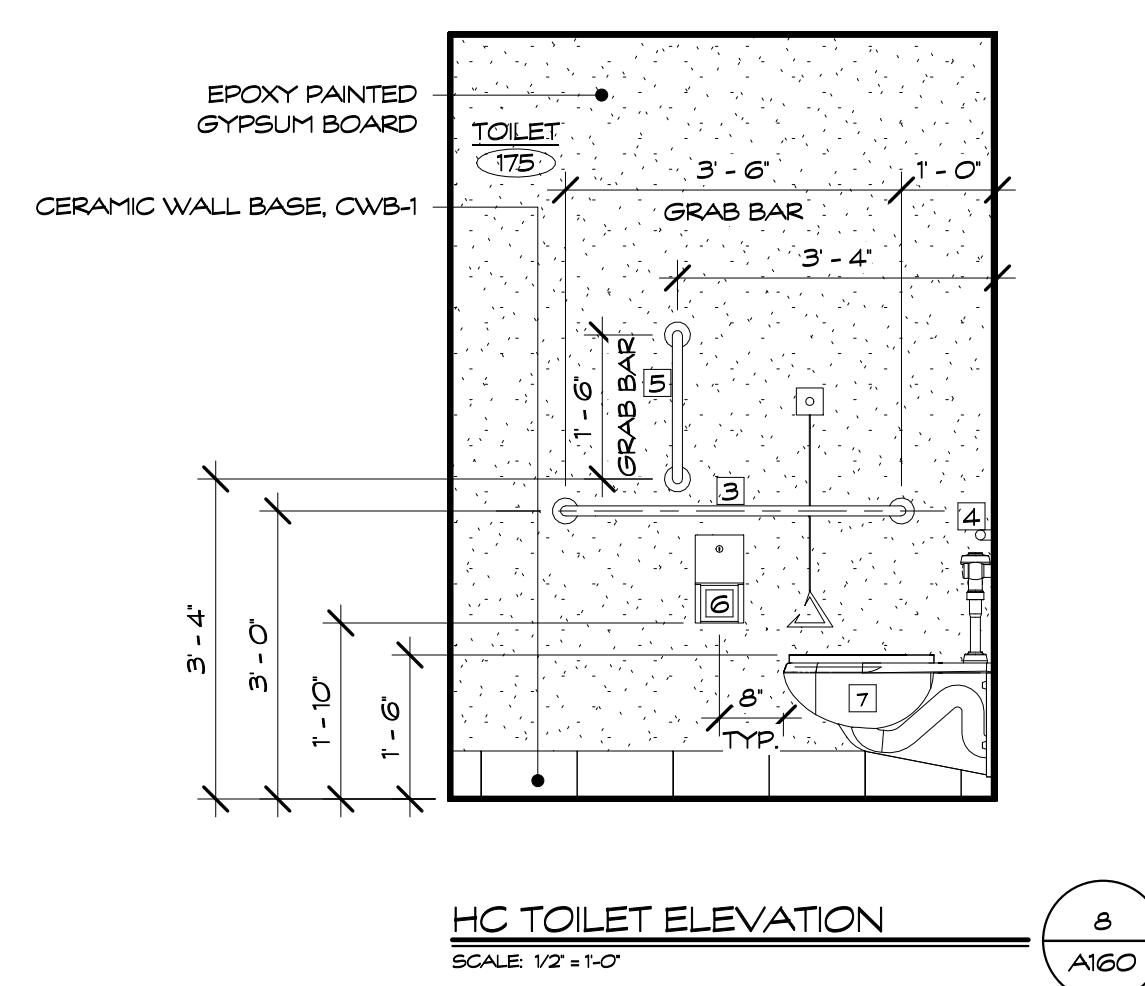
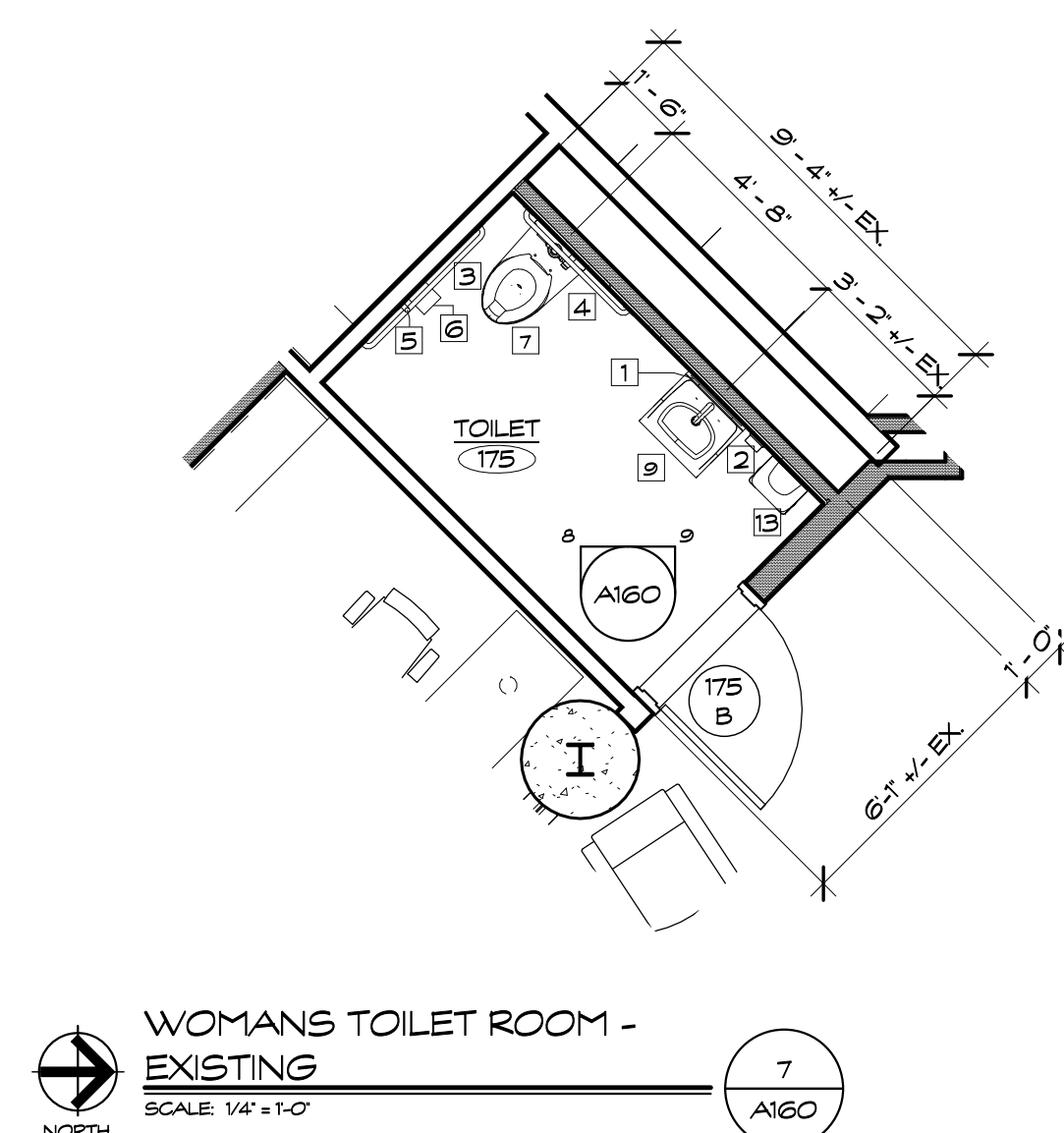
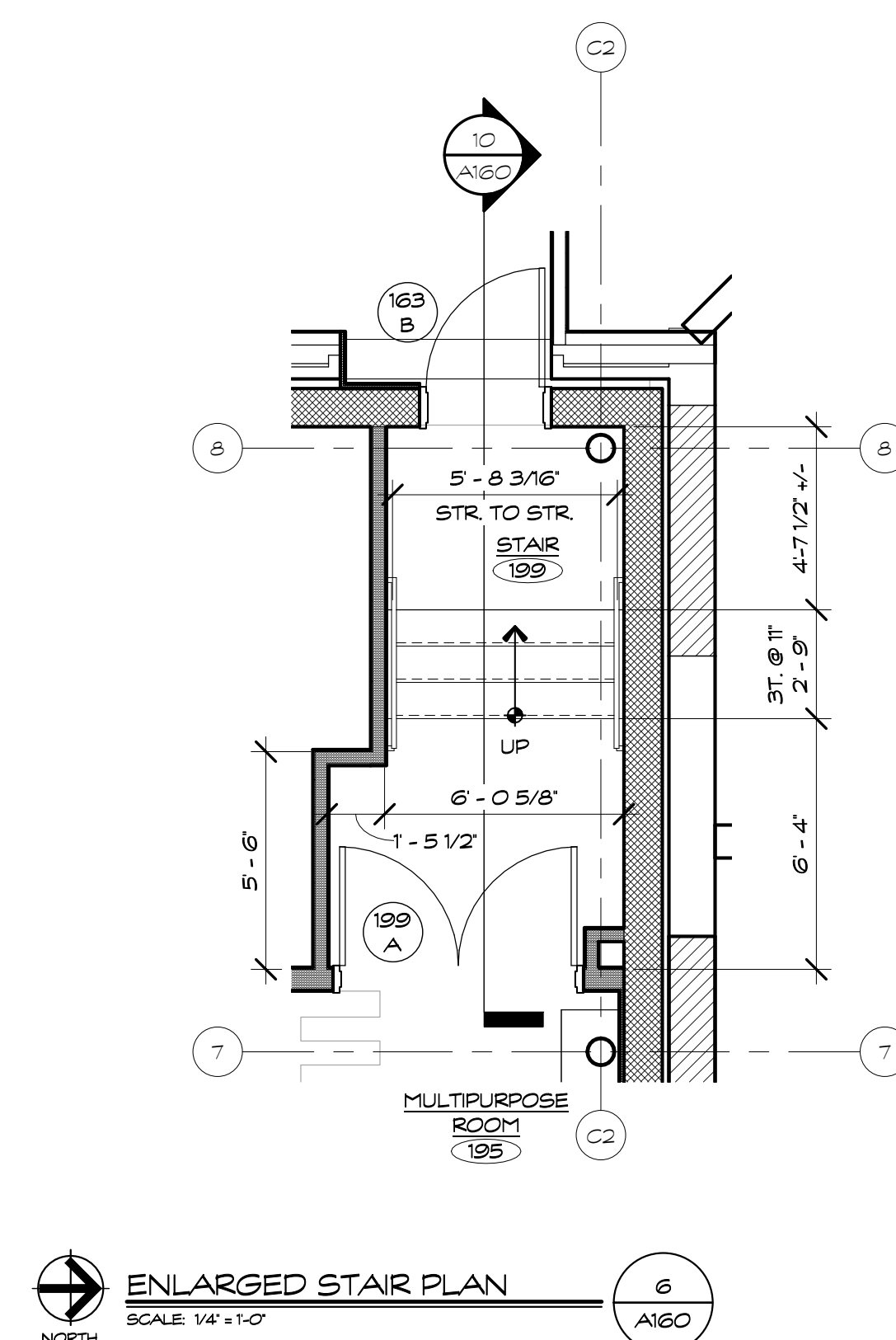
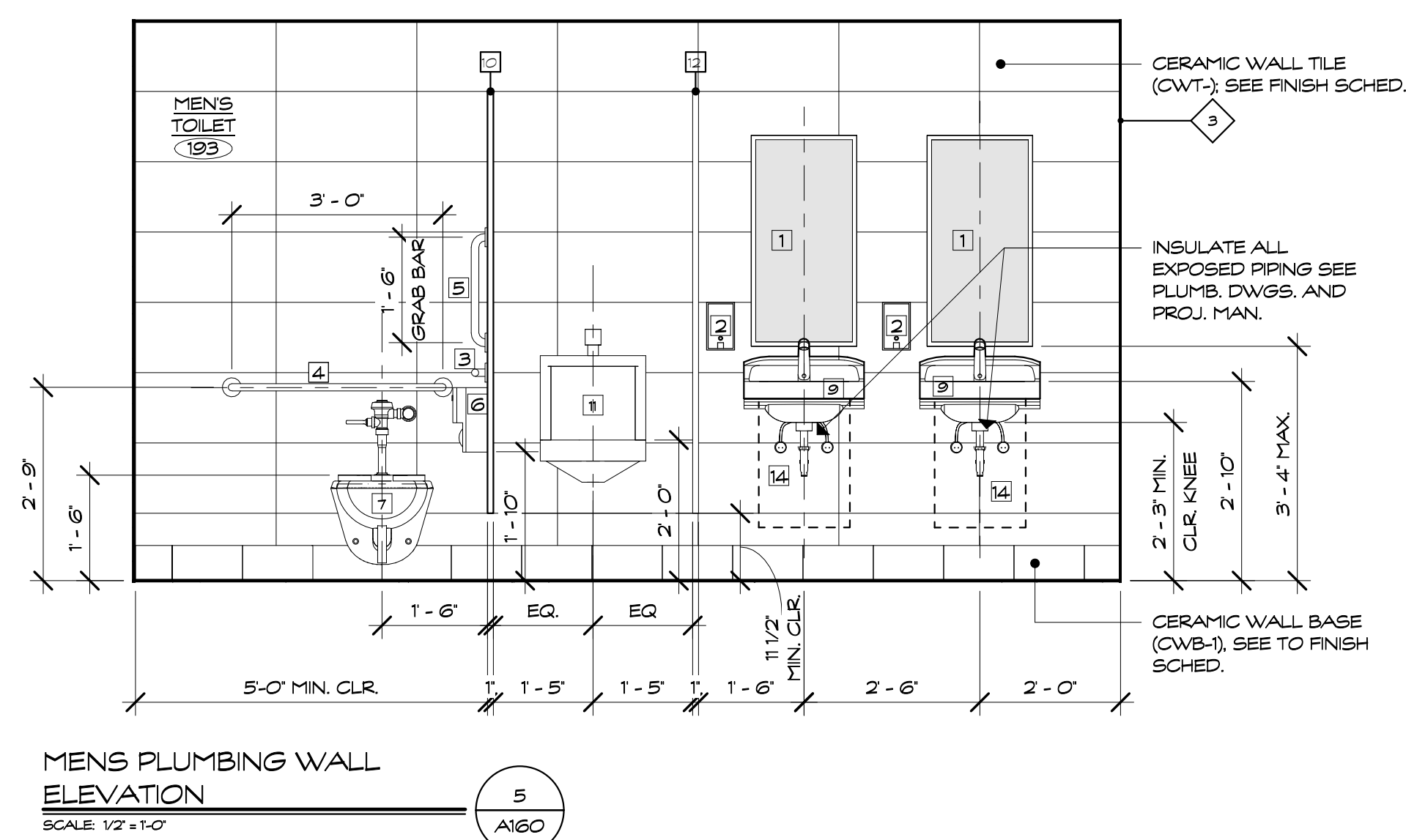
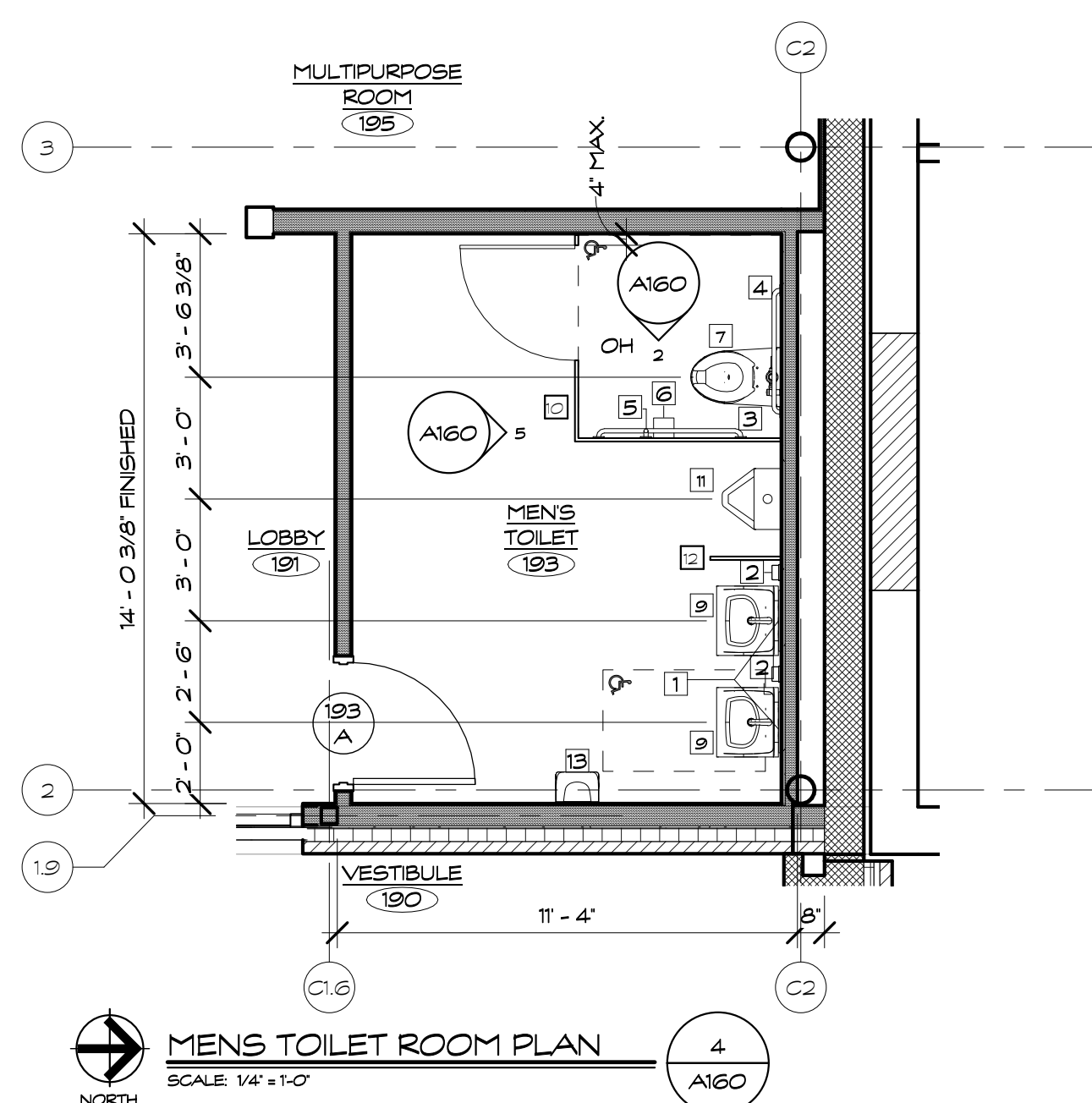
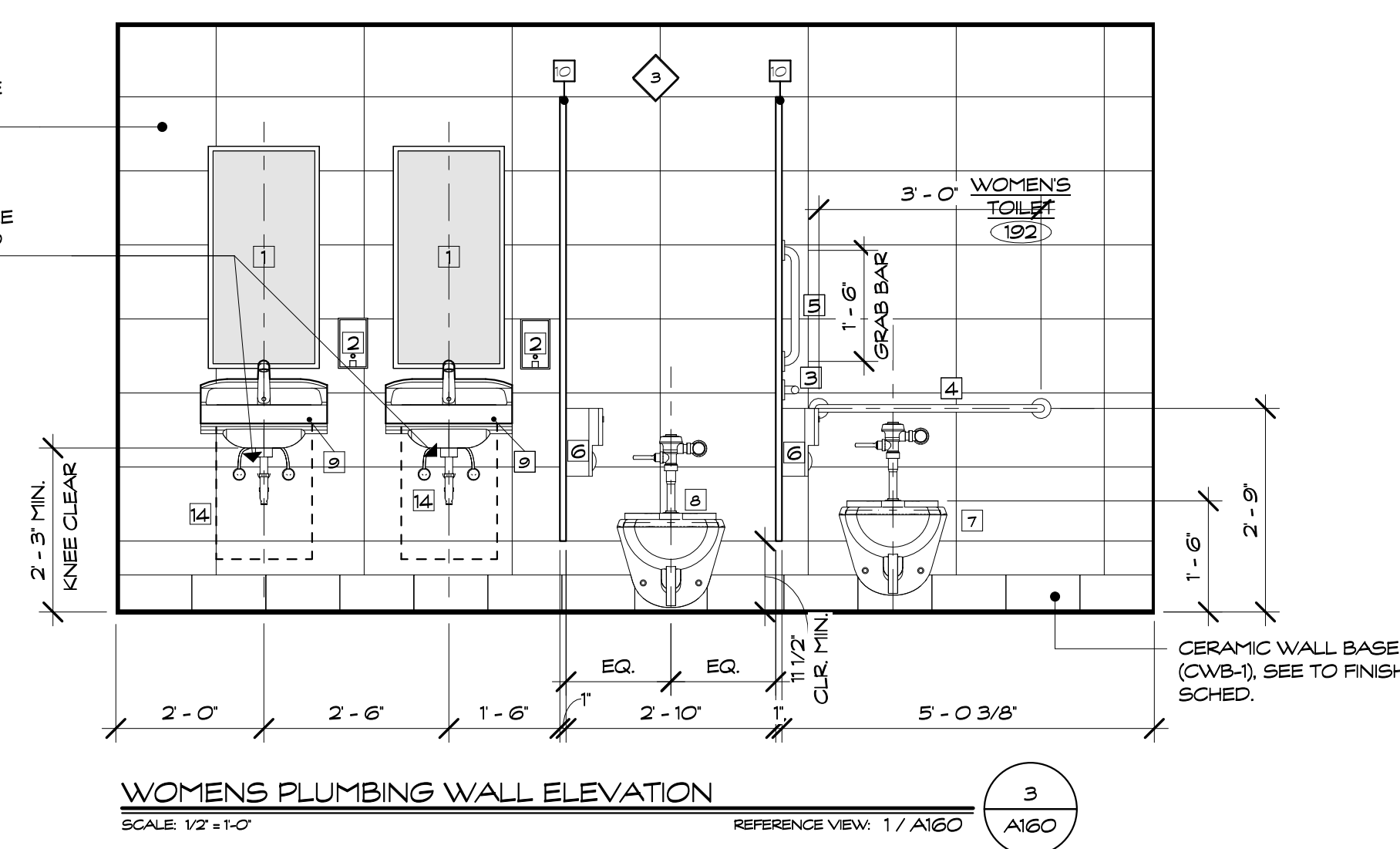
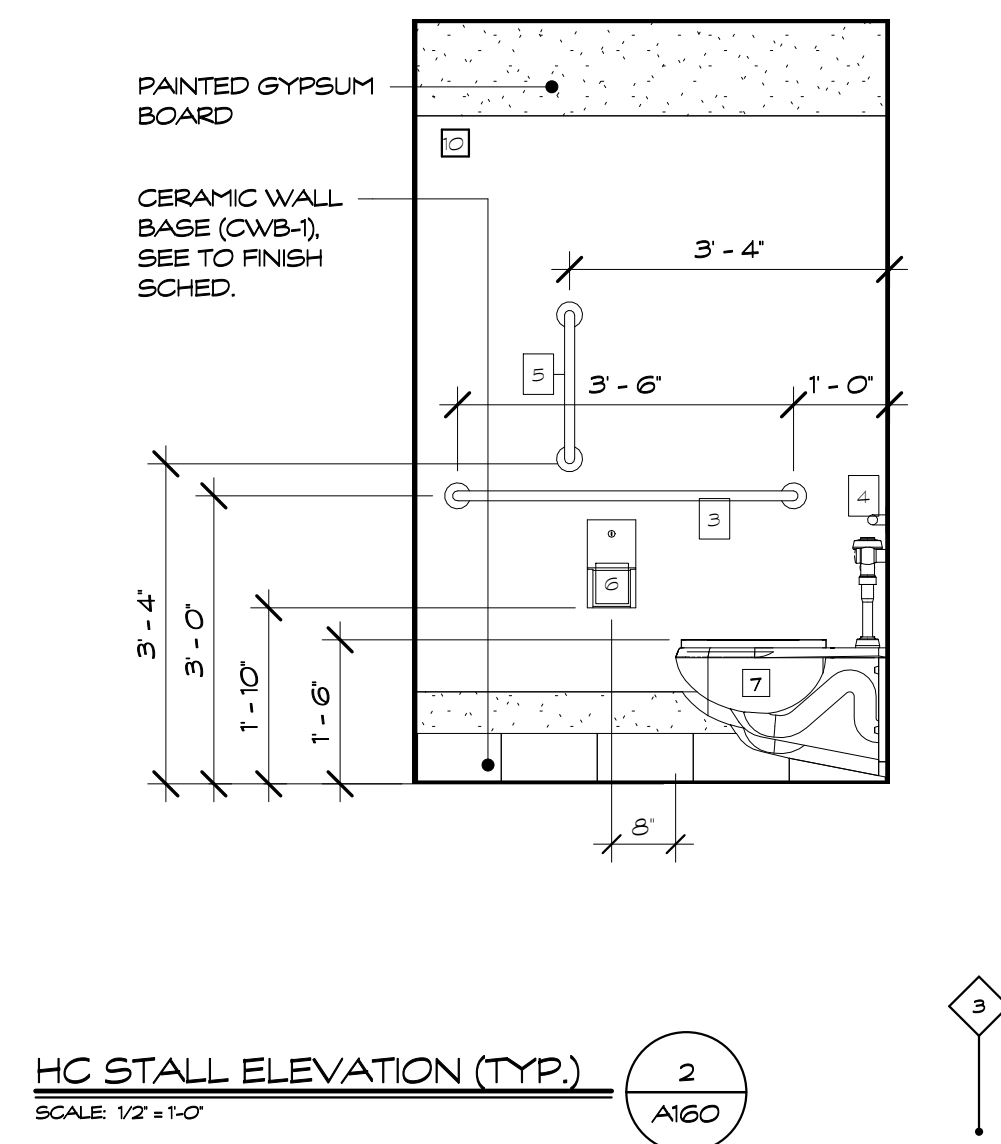
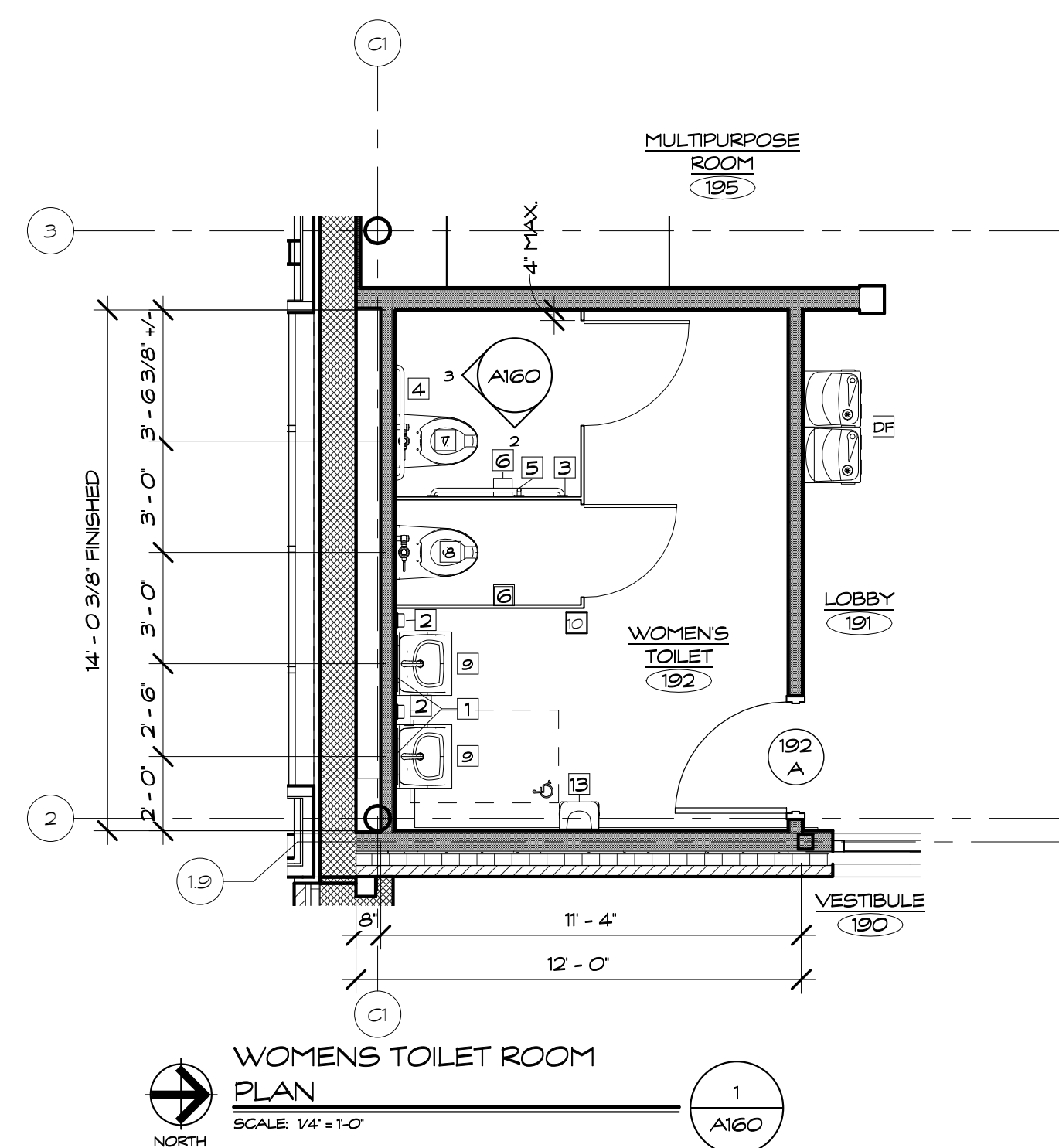
DUAL ROOF DRAIN DETAIL
SCALE: 1/2" = 1'-0"





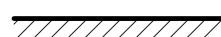















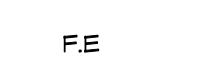
COLLECTION BOX DETAIL
SCALE: 1/2" = 1'-0"



INSULATION FASTENING DETAIL
SCALE: 1/2" = 1'-0"



SYMBOL LEGEND

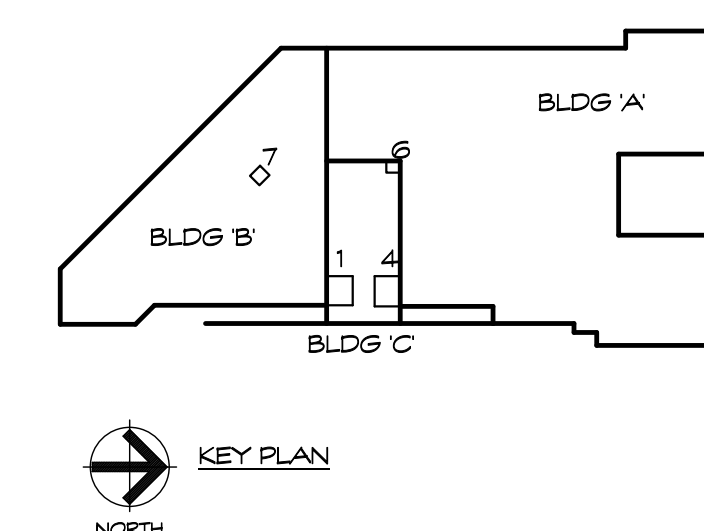
	- EXISTING WALLS
	- NEW METAL STUD PARTITIONS
	- NEW MASONRY WALL
	- NEW CHU WALL
	- DOOR NUMBER
	- WINDOW TYPE
Room name 	- ROOM NAME - ROOM NUMBER
	- PARTITION TYPE
	- CONSTRUCTION NOTE
	- DOOR NUMBER
	- EXTERIOR ELEVATION NUMBER
	- SHEET NUMBER
	- INTERIOR/WINDOW ELEVATION NUMBER
	- SHEET NUMBER
	- BUILDING SECTION NUMBER
	- SHEET NUMBER
	- WALL SECTION NUMBER
	- SHEET NUMBER
	- ACCESSIBLE FLOOR SPACE
F.E	- WALL MOUNTED FIRE EXTINGUISHER
FD	- FLOOR DRAIN - SLOPE TILE TO DRAIN

GENERAL NOTES

1. READ ALL GENERAL NOTES ON DRAWING A001.
2. CONTRACTORS SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS.
3. PATCH TO MATCH ALL EXISTING WALLS AND CEILINGS TO REMAIN AFFECTED BY NEW WORK.
4. ALL DIMENSIONS ARE TO OUTSIDE FACE OF BRICK CONCRETE MASONRY UNITS AND METAL FRAMING UNLESS OTHERWISE NOTED.
5. ALL NEW WALL AND PARTITION ASSEMBLIES SHALL EXTEND TO UNDERSIDE OF DECK UNLESS OTHERWISE NOTED.
6. PROVIDE CHU WITH PRE-MANUFACTURED BULLNOSE AT ALL EXPOSED CORNERS.
7. WHERE THE WORD "OR" IS INDICATED IT SHALL MEAN TO ALIGN BOTH SIDES OF WALL.

TOILET ACCESSORIES 1

- | | |
|----|--|
| 1 | 14" X 3" MIRROR (CENTER ON LAV.) |
| 2 | SURFACE MTD. H.C. SOAP DISPENSER |
| 3 | 42" HORIZ. GRAB BAR |
| 4 | 36" HORIZ. GRAB BAR |
| 5 | 18" VERT. GRAB BAR |
| 6 | SURFACE MOUNTED H.C. TOILET PAPER DISPENSER |
| 7 | WALL MOUNTED WATER CLOSET (8" TO TOP OF SEAT) |
| 8 | WALL MOUNTED WATER CLOSET (16" TO TOP OF SEAT) |
| 9 | WALL MOUNTED H.C. LAV. (2' - 10" TO TOP) |
| 10 | TOILET PARTITIONS; SEE PROJ. MAN. |
| 11 | WALL MOUNTED URINAL 24" TO RIM |
| 12 | URINAL SCREEN; SEE PROJ. MAN. |
| 13 | PAPER TOWEL DISPENSER |
| 14 | LAV. GUARD |



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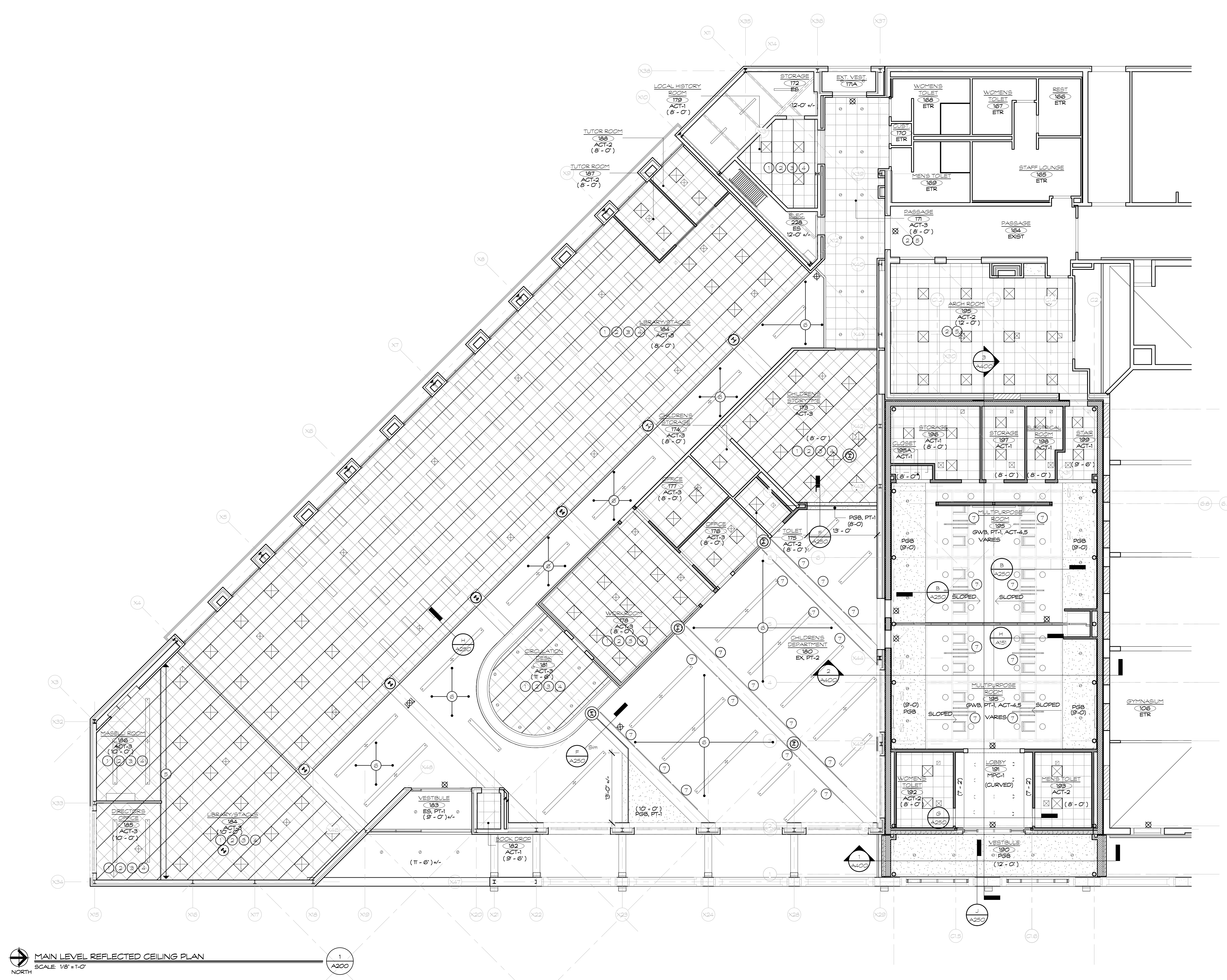
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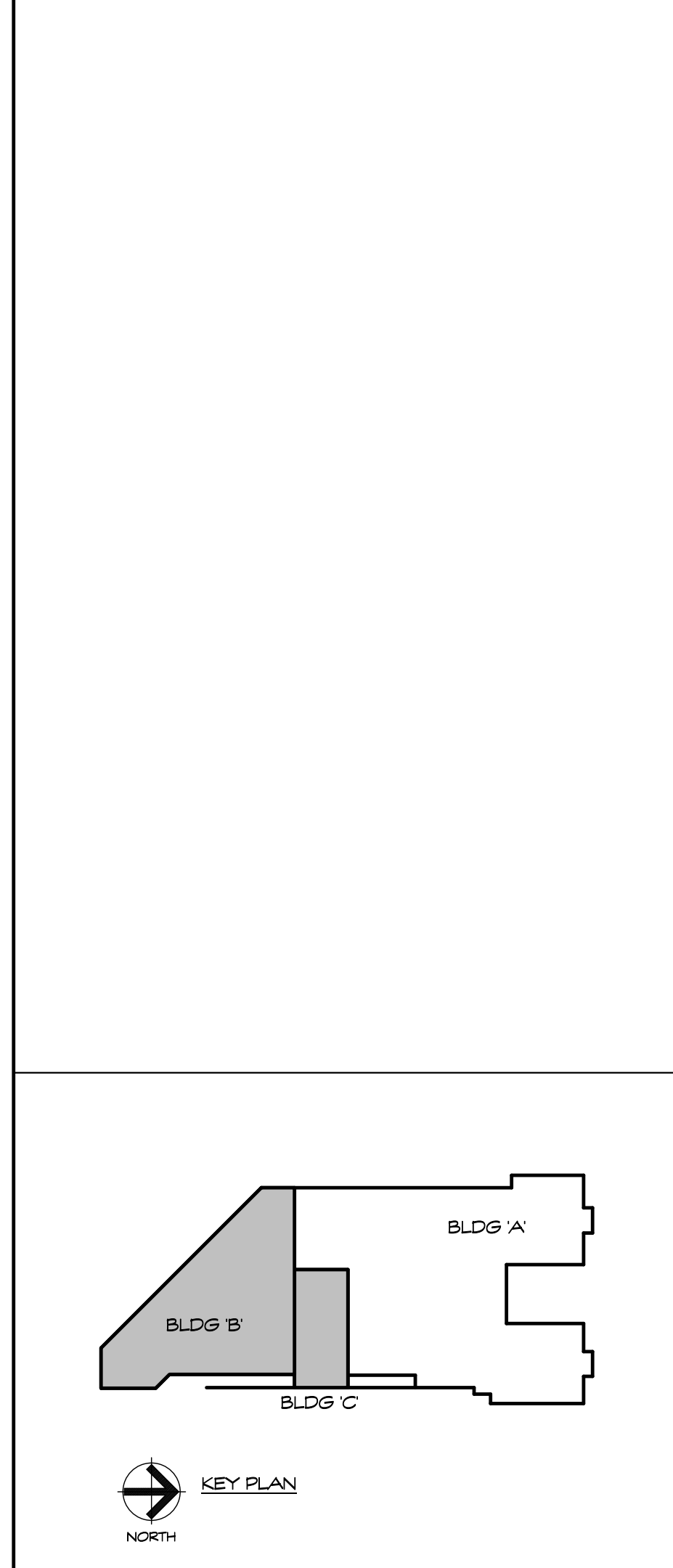
ENLARGED PLANS &
ELEVATIONS

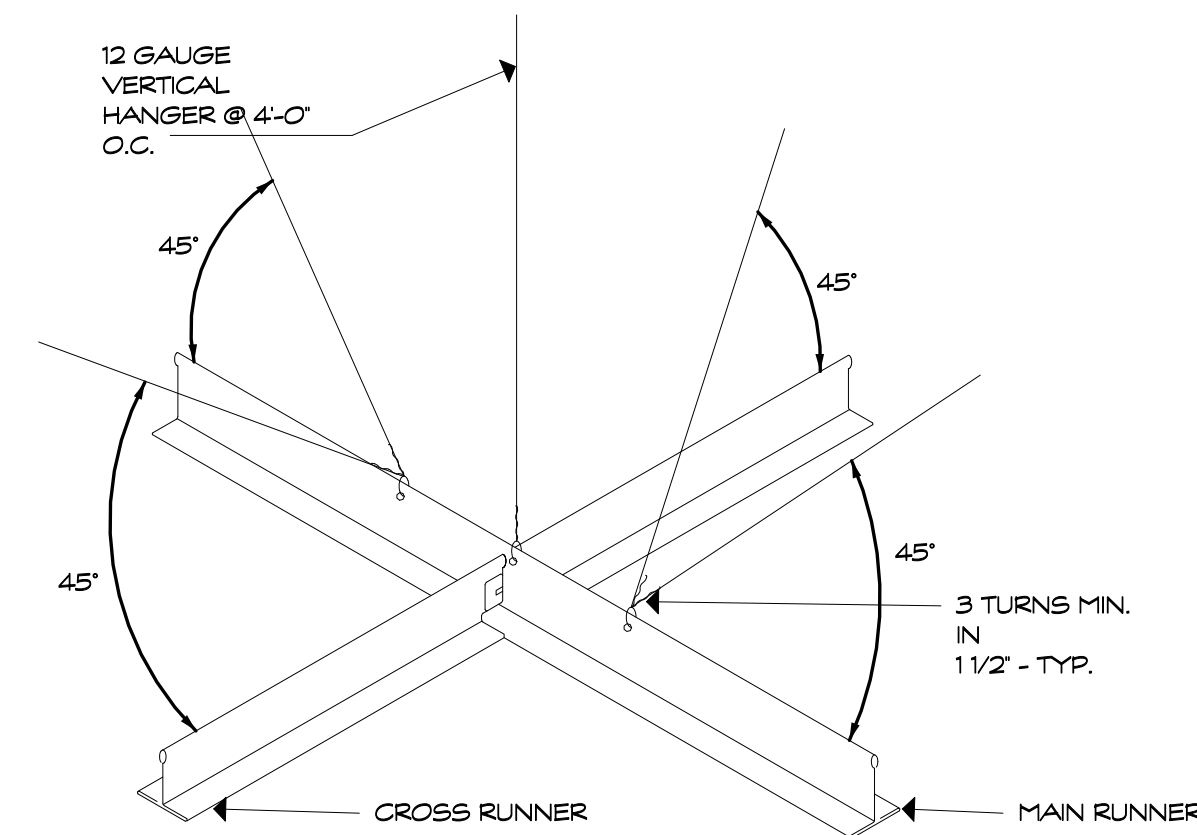
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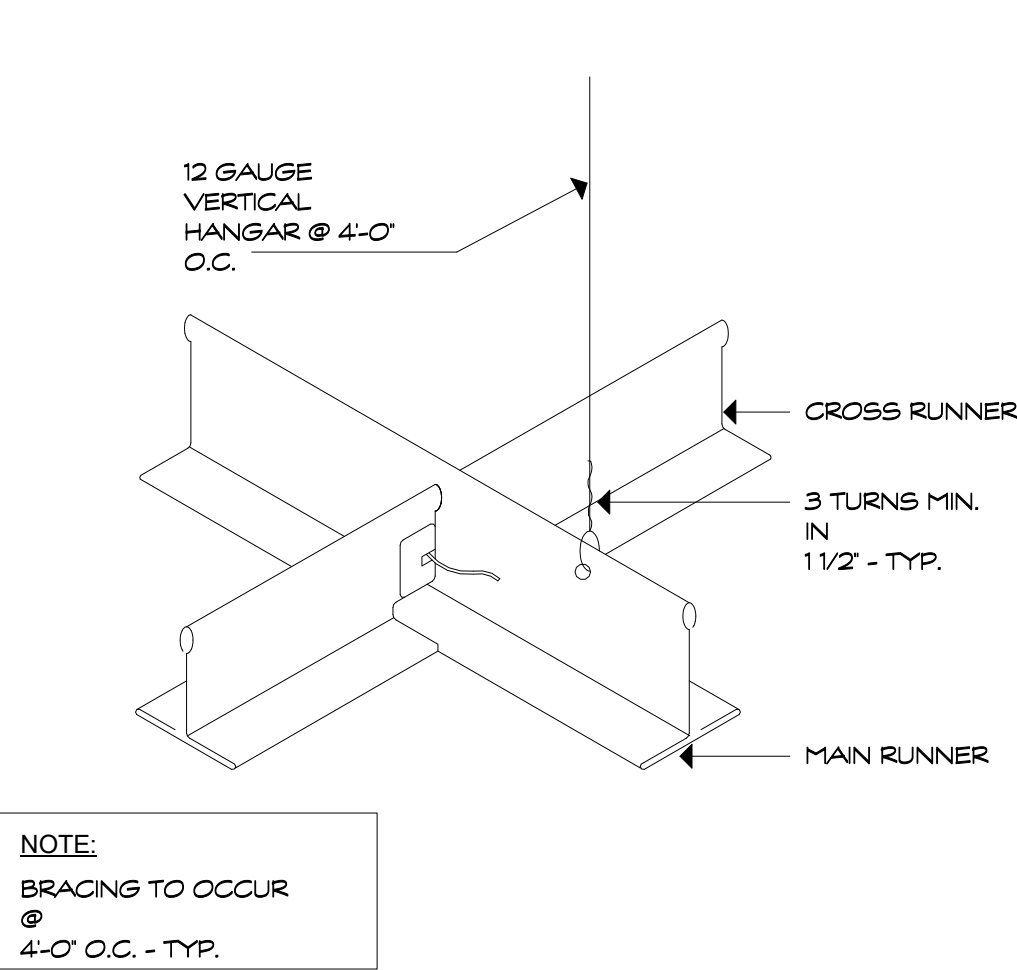
R.C.P. SYMBOL LEGEND	
	- 2' x 4' ACOUSTICAL CEILING TILE & GRID w/ SUPPORTS
	- PAINTED GYPSUM BOARD CEILING
	- RECESSED LIGHT FIXTURES REFER TO ELECTRICAL DWGS.
	- 2' x 2' LIGHT FIXTURE REFER TO ELECTRICAL DWGS.
	- PENDANT/FLUSH LIGHT FIXTURE REFER TO ELECTRICAL DWGS.
	- SUPPLY DIFFUSER REFER TO MECHANICAL DWGS.
	- RETURN GRILLE REFER TO MECHANICAL DWGS.
	- CONCEALED SPRINKLER HEAD REFER TO FIRE PROT. DWGS.
	- EXPOSED SPRINKLER HEAD REFER TO FIRE PROT. DWGS.
	- CEILING HEIGHT
	- CONSTRUCTION NOTE
	- ELEVATION/SECTION NUMBER
	- WALL SECTION NUMBER
	- PLAN / SECTION / DETAIL / ELEVATION NUMBER
	ACT ACOUSTICAL CEILING TILE
	PGB PAINTED GYPSUM BOARD

- GENERAL NOTES**
1. READ ALL GENERAL NOTES ON DRAWING A200.
 2. CONTRACTORS SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS.
 3. PATCH TO MATCH ALL EXISTING WALLS AND CEILINGS TO REMAIN AFFECTED BY NEW WORK.
 4. ALL DIMENSIONS ARE TO OUTSIDE FACE OF BRICK, CONCRETE MASONRY UNITS AND METAL FRAMING UNLESS OTHERWISE NOTED.
 5. ALL NEW WALL AND PARTITION ASSEMBLIES SHALL EXTEND TO UNDERSIDE OF DECK UNLESS OTHERWISE NOTED.
 6. PROVIDE CMU WITH PRE-MANUFACTURED BULLNOSE AT ALL EXPOSED CORNERS.
 7. WHERE THE WORD "ALIGN" IS INDICATED IT SHALL MEAN TO ALIGN BOTH SIDES OF WALL.
- CONSTRUCTION NOTES - RCP**
1. EXISTING GRID IS 2' x 4'. INSTALL CROSS TEES TO MATCH EXISTING AT 2'-0".
 2. PAINT ENTIRE GRID SEE FINISH PLANS AND PROJ. MAN.
 3. REPLACE DAMAGED, TWISTED, OR BROKEN MAINS. SEE PROJ. MAN.
 4. VERIFY AND SECURE EXISTING AND NEW GRID SEE SEISMIC BRACING DETAIL.
 5. EXISTING 2' x 2' CLG. REPLACE PADS ONLY THIS AREA.
 6. SCRAPE EXISTING FINISH AT GYPSUM CEILINGS SEE PROJ. MAN.
 7. ACOUSTICAL WALL PANELS, SEE INTERIOR ELEVATIONS.

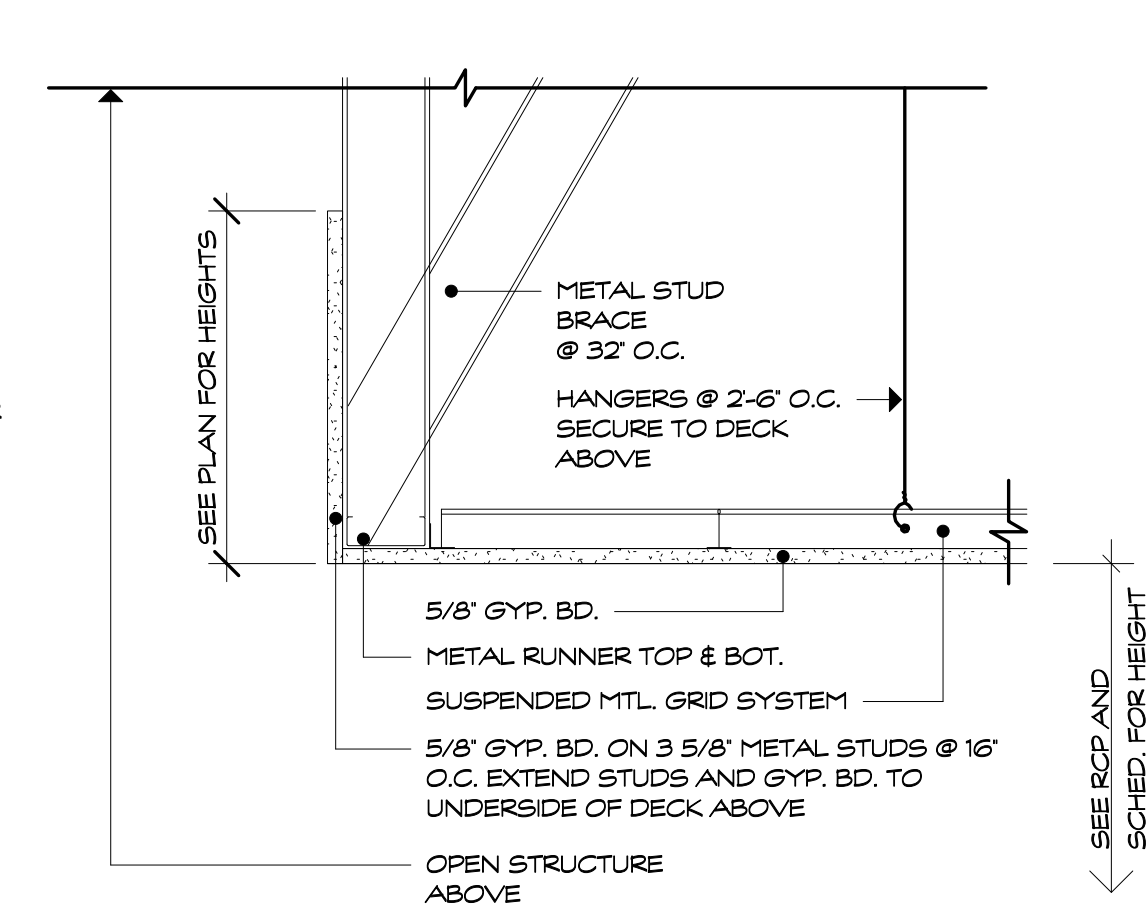




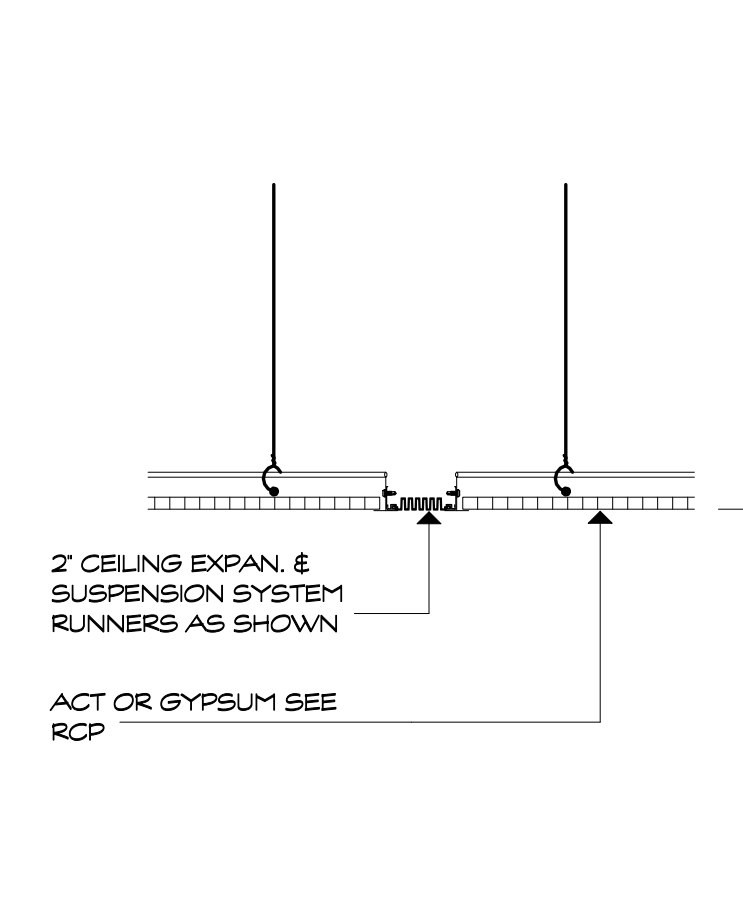
SEISMIC BRACING DETAIL
SCALE: 1/2" = 1'-0"



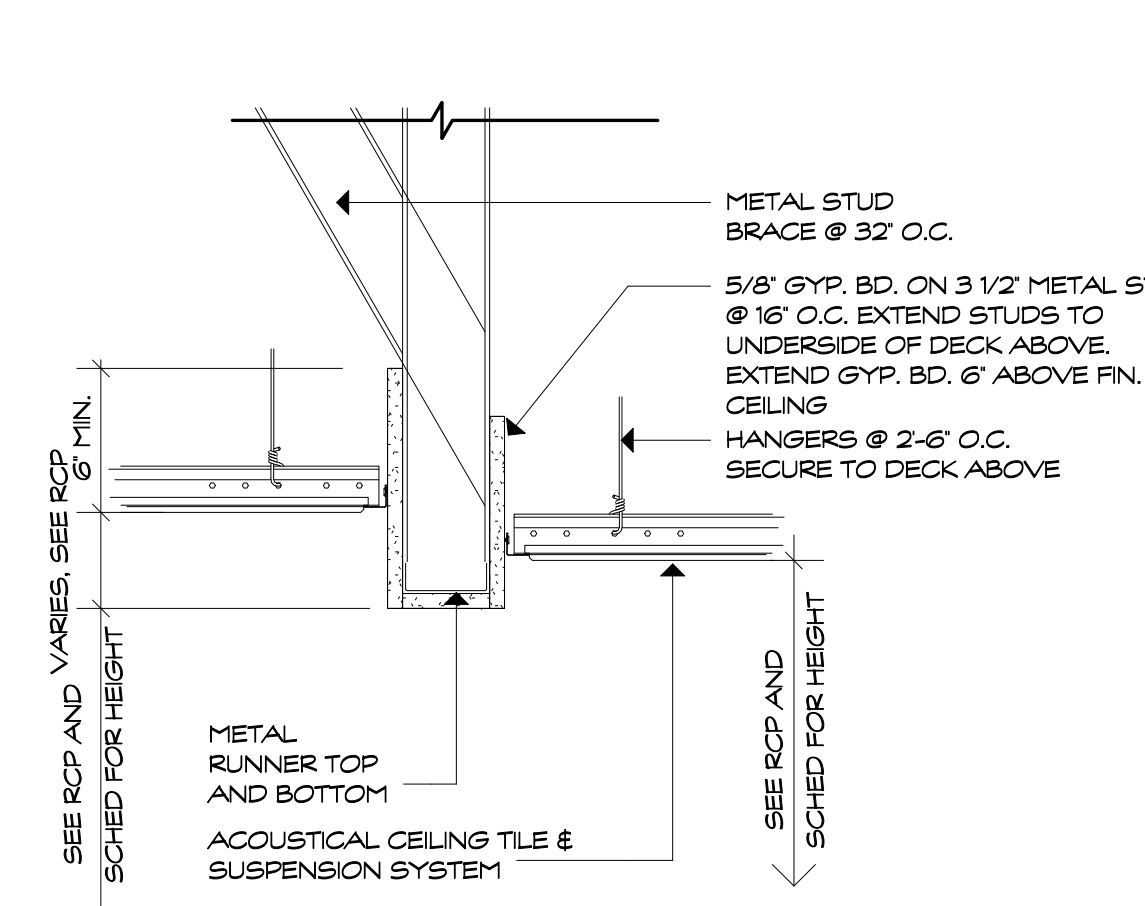
NOTE:
BRACINGS TO OCCUR
@
4'-0" O.C. - TYP.



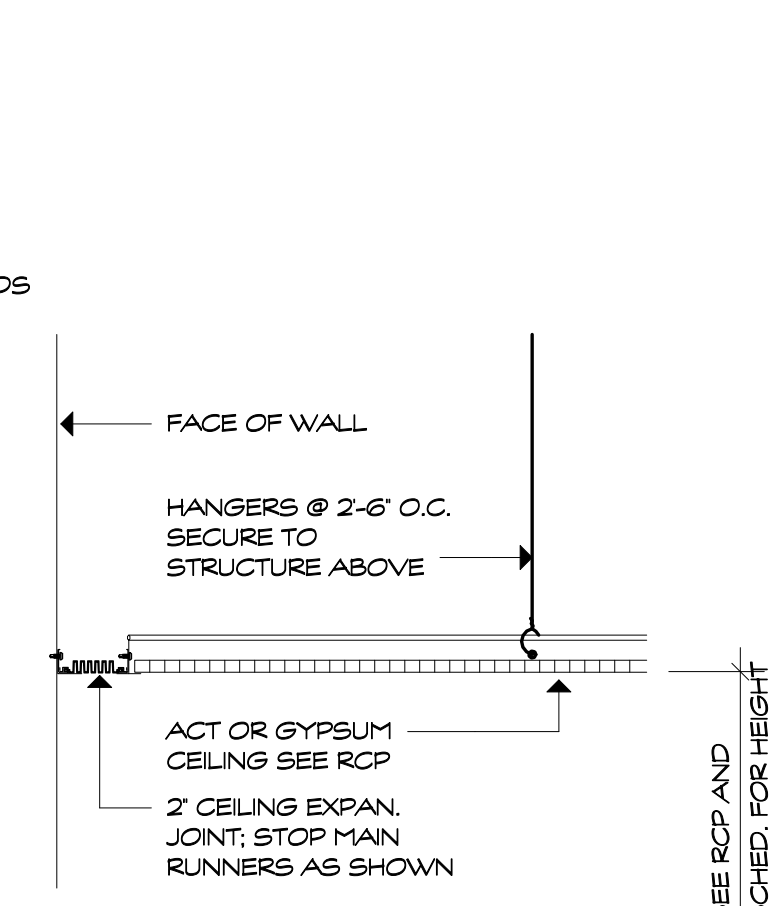
GYPSUM EDGE CEILING DETAIL
SCALE: 1/2" = 1'-0"



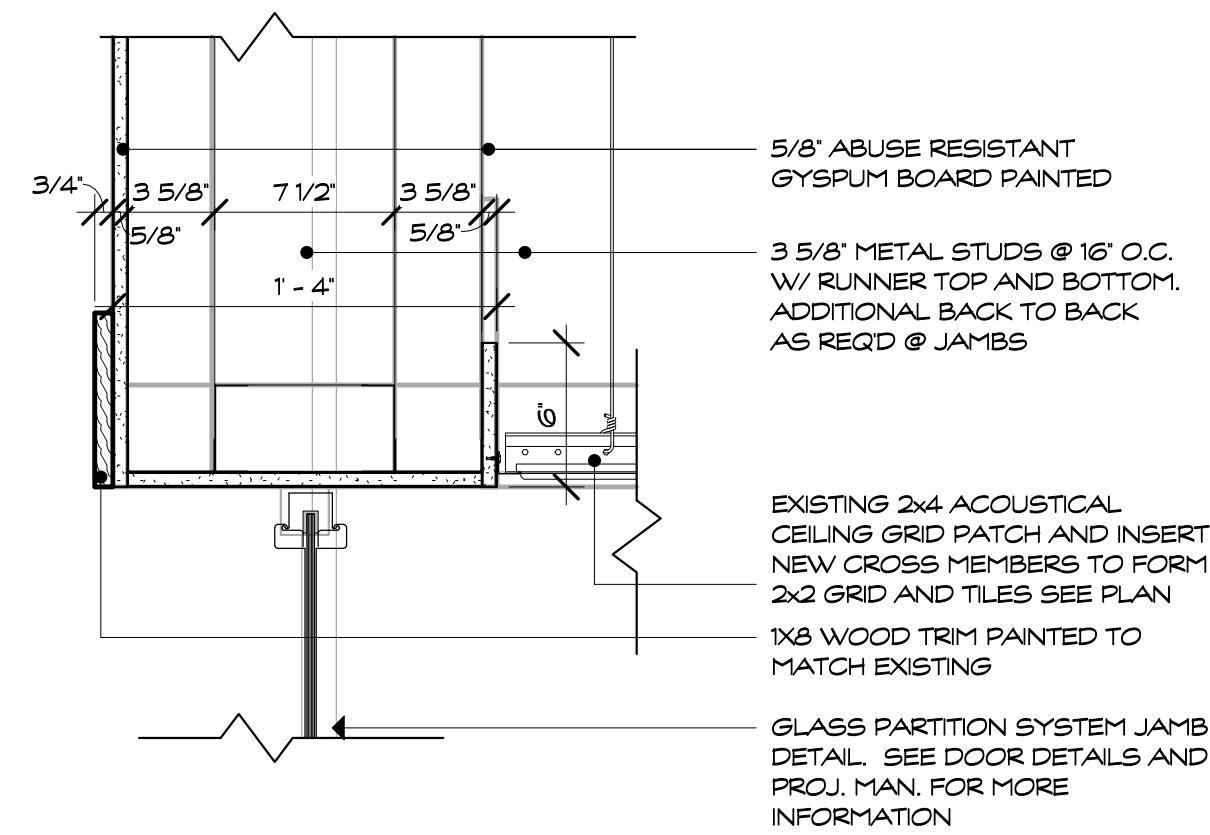
MIDDLE EXPANSION JOINT
SCALE: 1/2" = 1'-0"



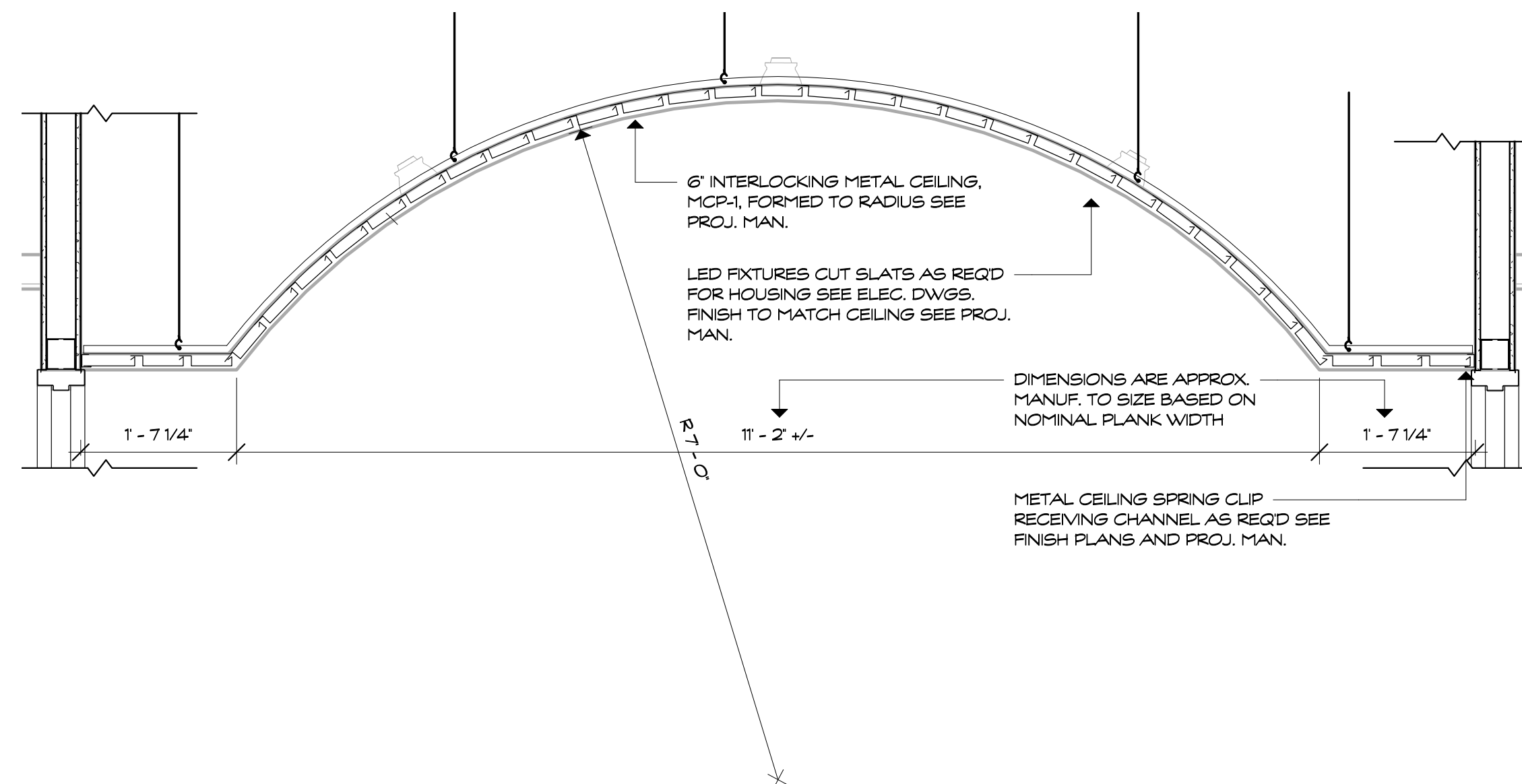
GYPSUM SOFFIT DETAIL
SCALE: 1/2" = 1'-0"



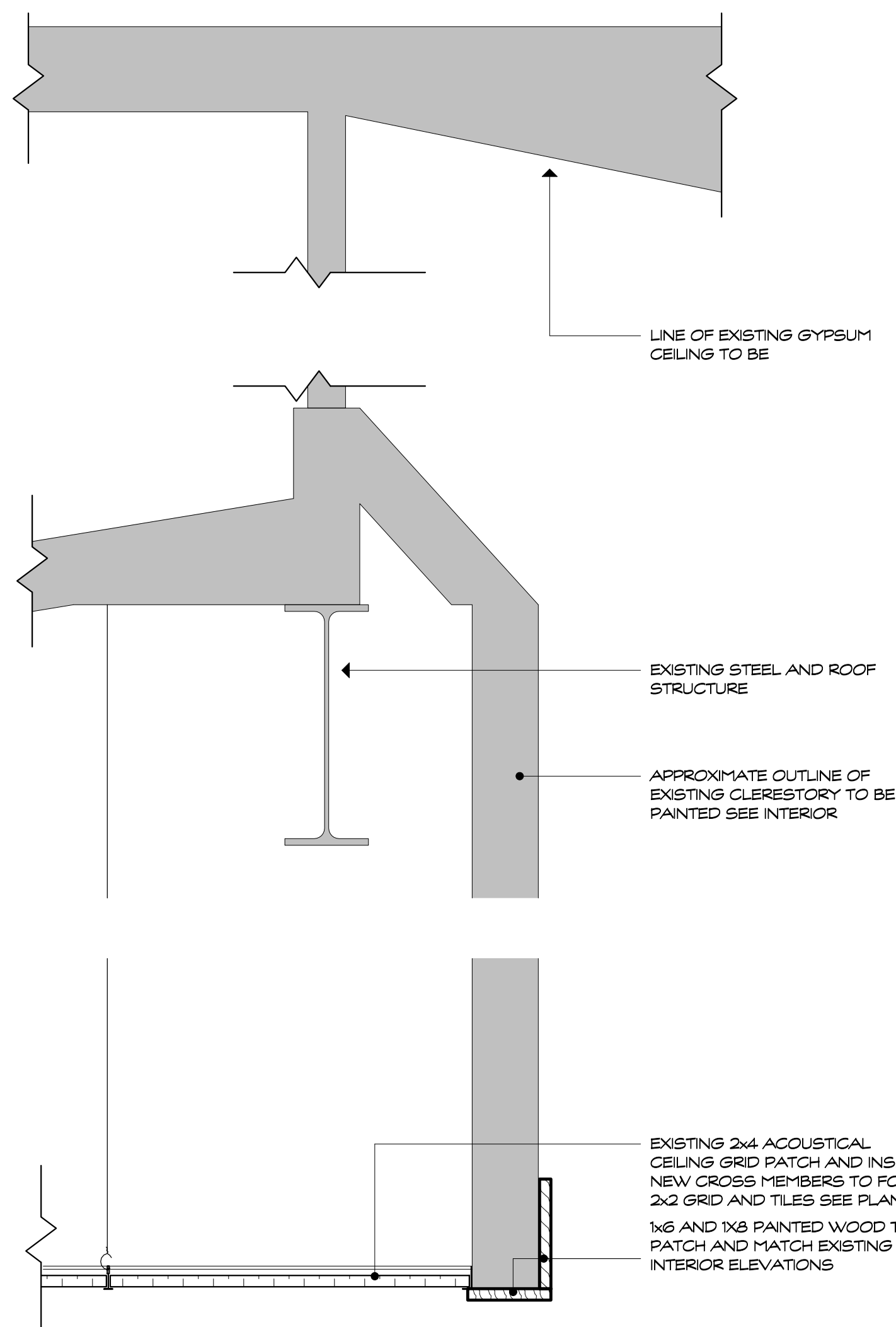
CEILING TO WALL
EXPANSION JOINT
SCALE: 1/2" = 1'-0"



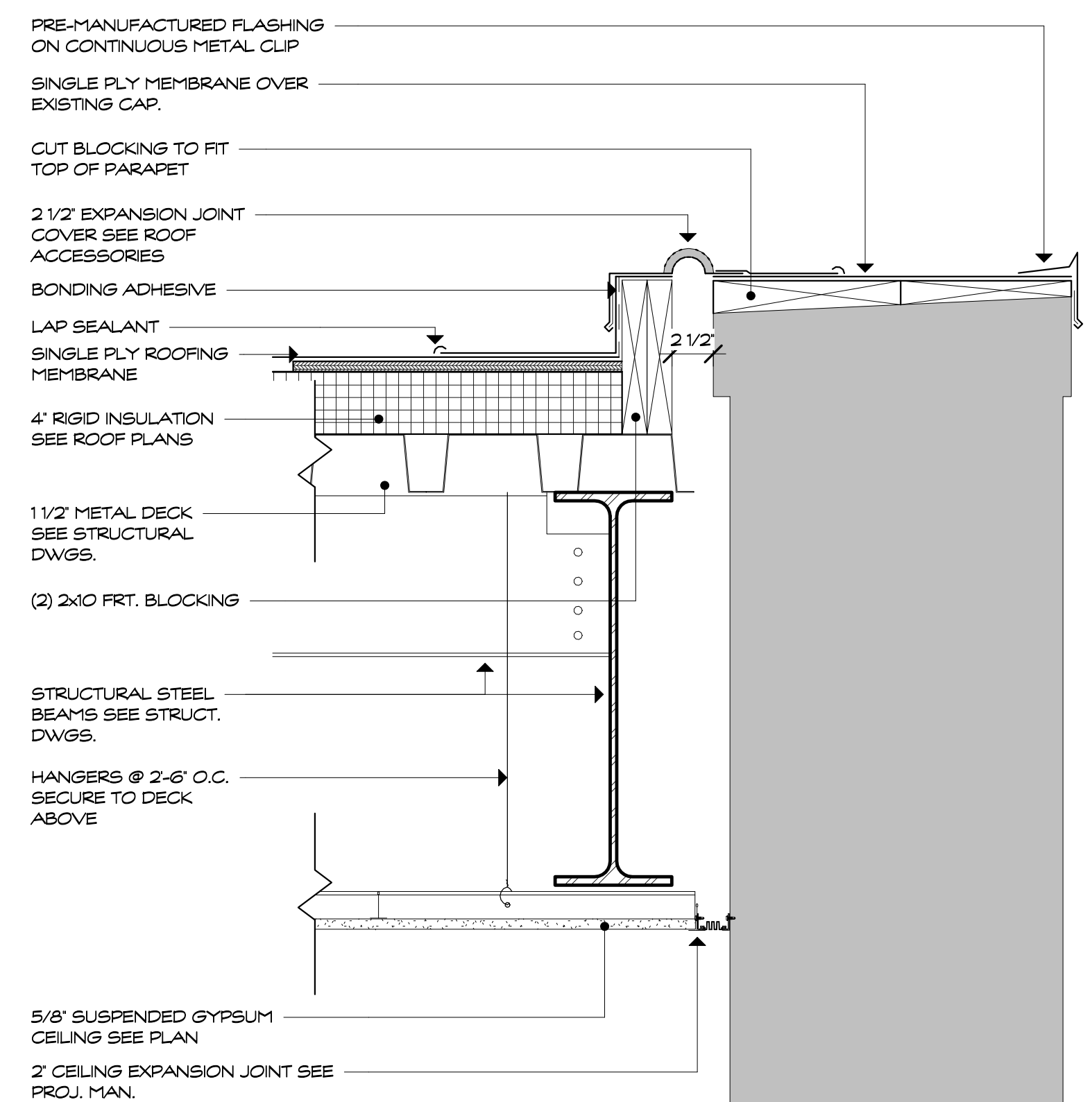
CHILDRENS AREA SOFFIT
SCALE: 1/2" = 1'-0"



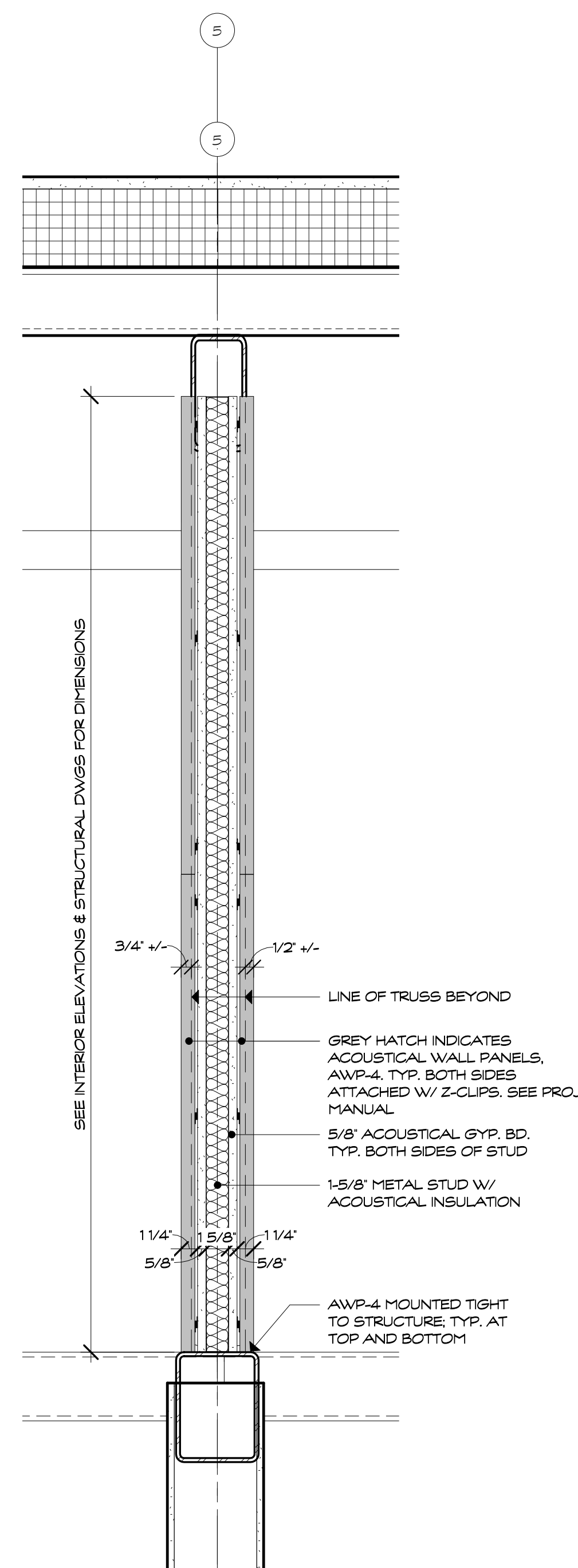
LOBBY SOFFIT
SCALE: 3/4" = 1'-0"



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



EXPANSION JOINT @
VESTIBULE
SCALE: 1/2" = 1'-0"



ACOUSTICAL PANEL
ATTACHMENT DETAIL
SCALE: 1/2" = 1'-0"

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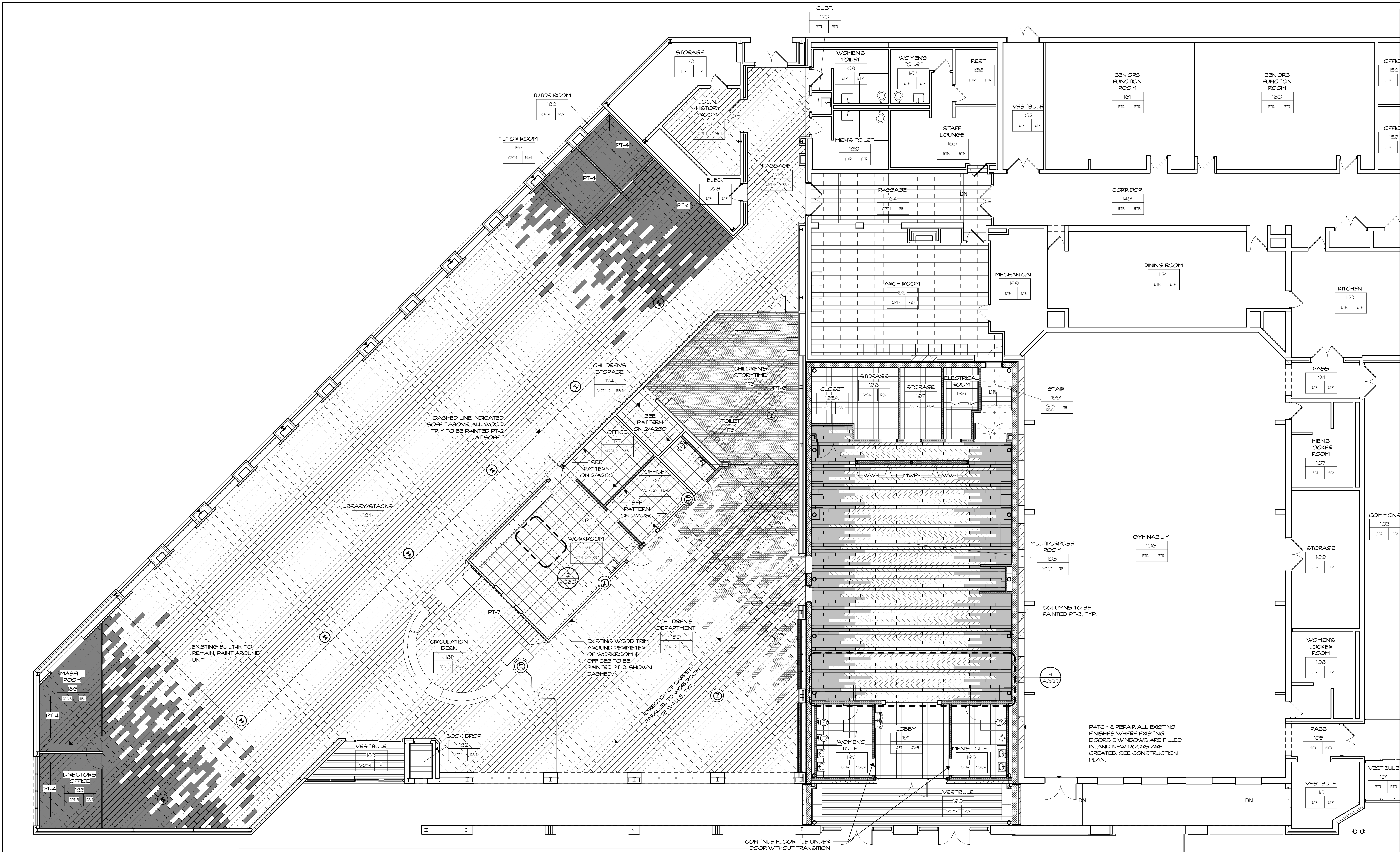
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Project Number:
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Drawing Number:
A250



FINISH FLOOR LEGEND

GENERAL FINISH NOTES

1. ALL EXPOSED COLLUMPS TO REMAIN CONCRETE FINISH. U.G.N. PATCH/REPAIR HOLES AS NEEDED FROM REMOVAL OF EXISTING HOOKS. REFER TO DETAIL W/AM-10.
2. REFER TO FINISH & FLOOR PATTERN PLANS FOR TYPICAL, ACCENT PAINT LOCATIONS.
3. ALL EXPOSED STRUCTURES TO BE PAINTED PT-1. U.G.N. INCLUDING BUT NOT LIMITED TO ALL CLUTTERS AND TRIMS.
4. REFER TO FINISH & FLOOR PATTERN PLANS AND INTERIOR & WINDOW ELEVATIONS FOR WINDOW FILM LOCATIONS.
5. PREP ALL SURFACES FOR MATERIAL TO BE APPLIED BASED ON MANUFACTURERS' GUIDELINES.
6. ALL GUARD RAILS AND HANDRAILS TO BE PAINTED PT-3.
7. ALL DOOR FRAMES TO BE PAINTED PT-3.
8. ALL WOOD TRIM TO BE PAINTED PT-2. U.G.N.
9. ALL WOOD WINDOW SILL TO BE PAINTED W/14.
10. REFER TO ELEVATIONS AND SCHEDULE OF FINISHES FOR CASEWORK MATERIALS.
11. ALL EXISTING CEILING GRID AND NEW CROSS TEES TO BE PAINTED PT-1.
12. ALL TAGBOARDS AND WHITEBOARDS TO BE PAINTED 2-10 AFF. U.G.N.

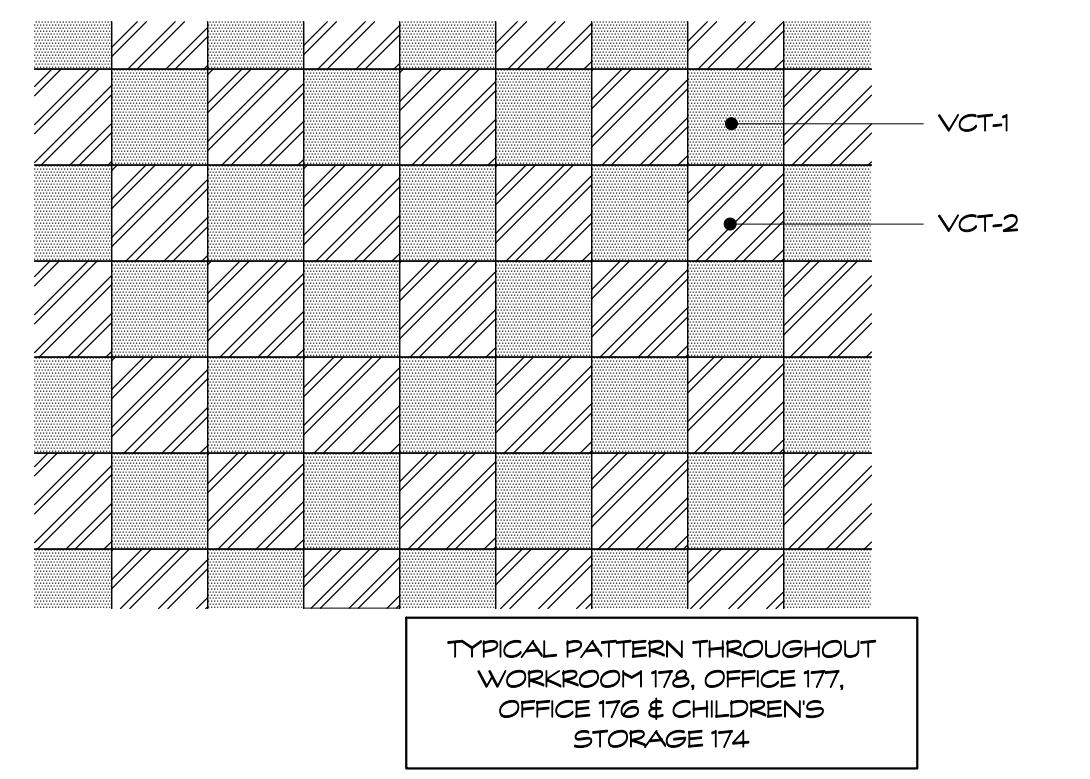
FLOOR TRANSITION NOTES

1. ALL CARPET (CPT) TO EXISTING CONCRETE TRANSITIONS REQUIRE TRANSITION STRIP. PT-1. REFER TO DETAIL W/AM-10.
2. ALL CARPET (CPT) TO LUXURY VINYL TILE (LVT) OR RUBBER TILE (RST) TO VINYL COMPOSITION TILE (VCT) OR LUXURY VINYL TILE (LVT) TRANSITIONS REQUIRE TRANSITION STRIP. PT-2. REFER TO DETAIL W/AM-10. NOT TO BE USED BETWEEN LVT TO LVT.
3. ALL CERAMIC TILE (CPT) TO LUXURY VINYL TILE (LVT) TRANSITIONS REQUIRE TRANSITION STRIP. PT-3. REFER TO DETAIL W/AM-10.
4. ALL CERAMIC FLOOR TILE (CPT) TO CARPET (CPT) TRANSITIONS REQUIRE TRANSITION STRIP. PT-4. REFER TO DETAIL W/AM-10.
5. REFER TO DOOR SCHEDULE FOR PT-5 LOCATIONS.

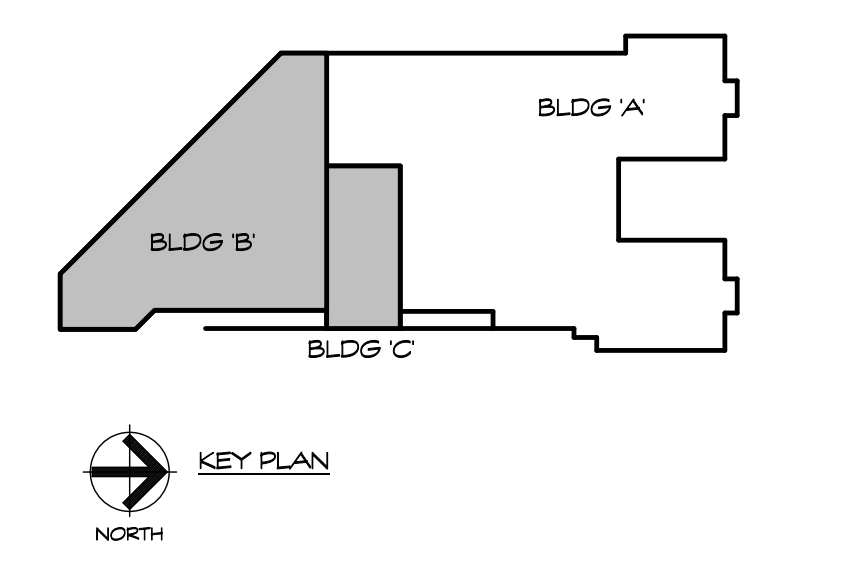
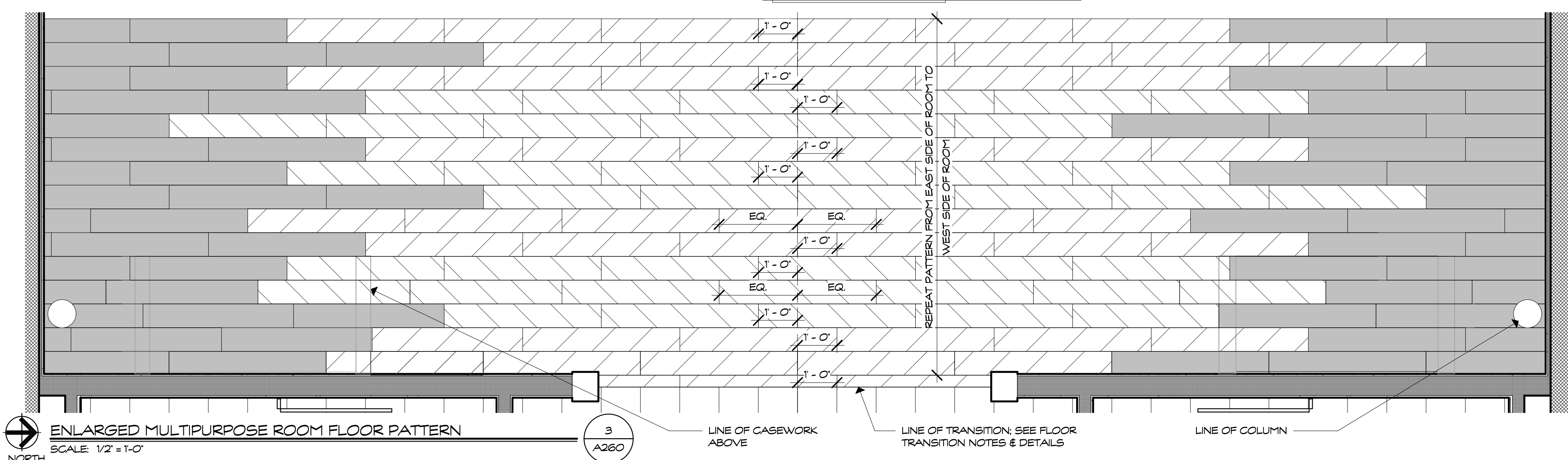
ABBREVIATION LEGEND

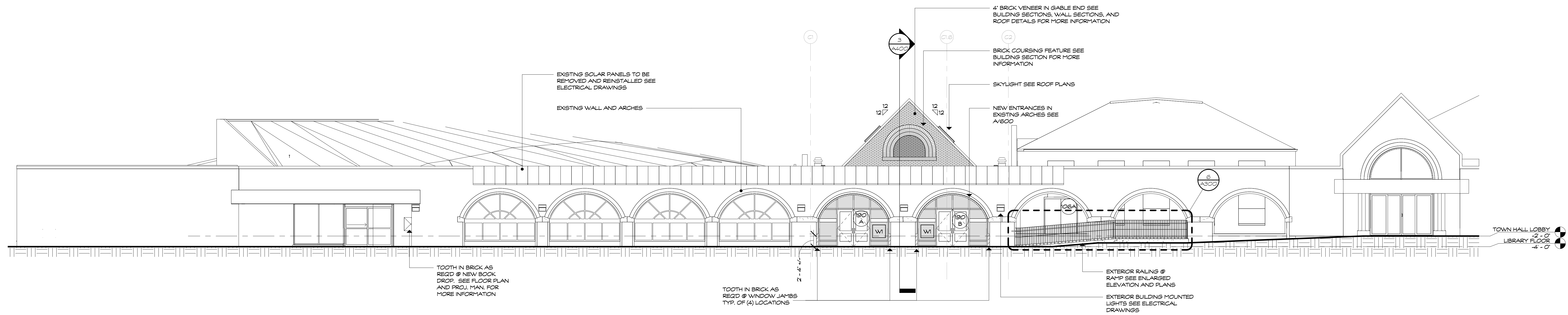
ADJ. - ADJUSTABLE	PBB - PAINTED GYP. BD.
ACT - ADJUSTABLE CEILING TILE	PAINT - PAINT
AWP - ACoustic WALL PANEL	RB - RUBBER BASE
CPT - CERAMIC FLOOR TILE	RST - RUBBER STAR TREAD
CPF - CUSTOM PANEL FABRIC	SC - SOLID CONCRETE
CWB - CERAMIC WALL BASE	SH - SHPLAR
CWT - CERAMIC WALL TILE	SS - TYPICAL
DM - DECORATIVE METAL	TS - TACKBOARD
EP - EPOXY PAINT	TR - TRIM
ES - EXPOSED STRUCTURE	VCT - VINYL COMPOSITION TILE
ETR - EXISTING TO REMAIN	WB - WHITEBOARD
FS - FLOOR TRANSITION STRIP	WV - WOOD STAIN
LVT - LUXURY VINYL TILE	WF - WINDOW FILM
MPC - METAL PANEL CEILING	WCH - WALK OFF MAT
MWP - METAL WALL PANELS	WW - WOOD WALL GRILLES
PT - PORCELAIN FLOOR TILE	
PL - PLASTIC LAMINATE	

SEE PROJECT MANUAL FOR ADDITIONAL INFORMATION

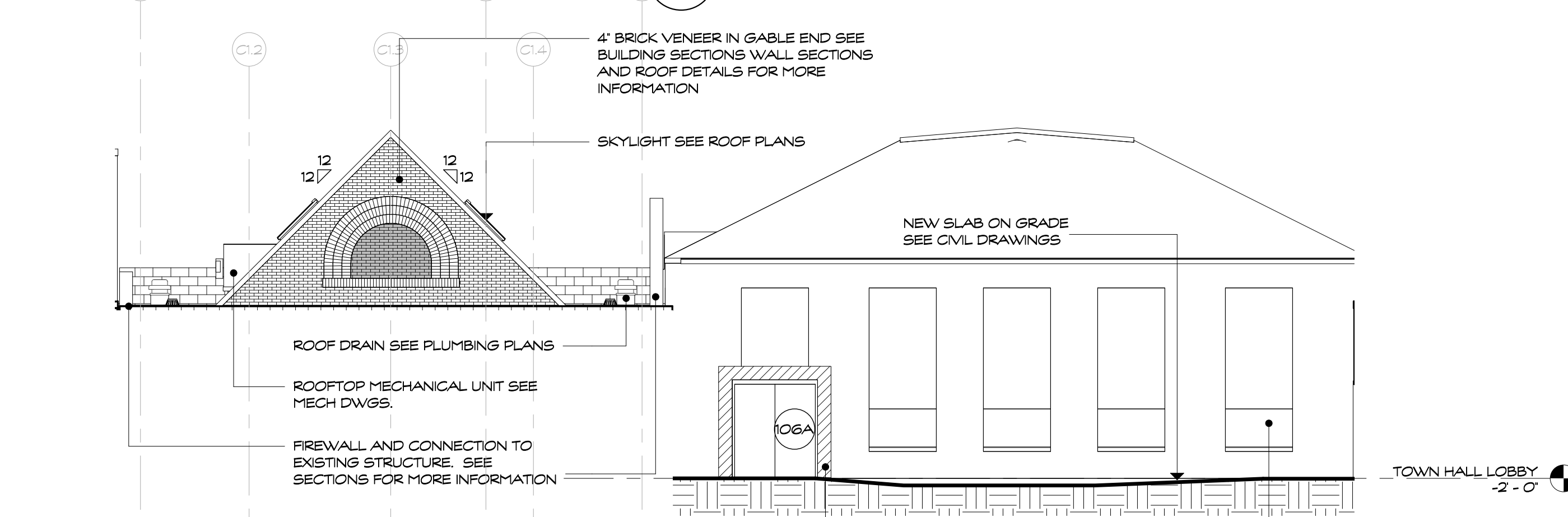


FINISH & FLOOR PATTERN PLAN
SCALE: 1/8" = 1'-0"
NORTH

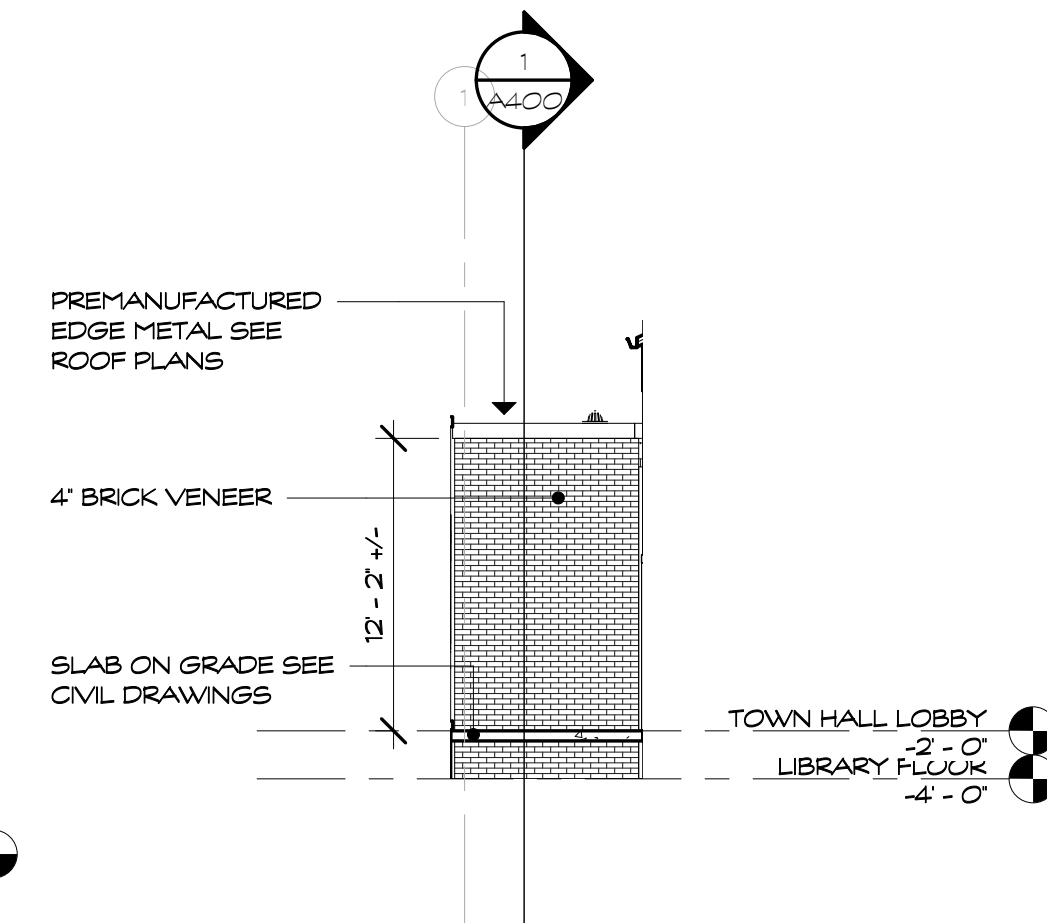




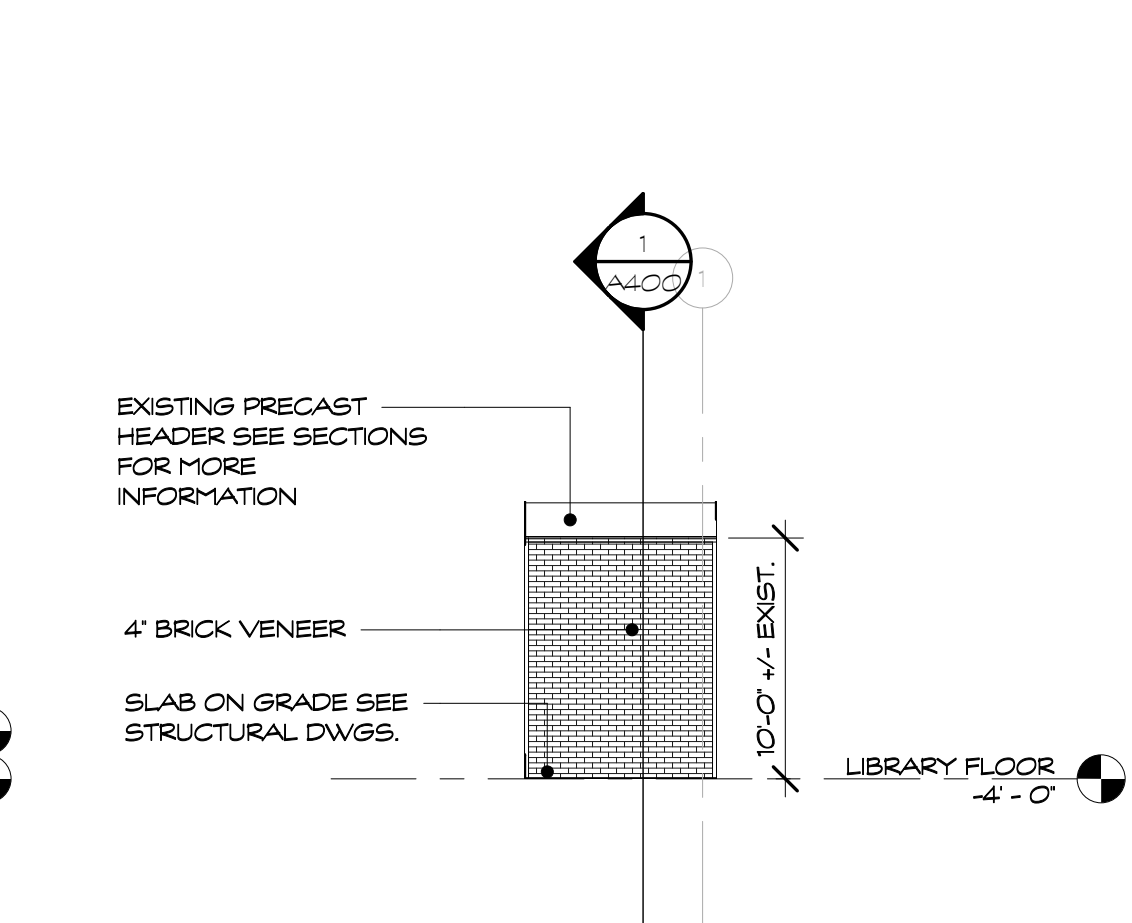
EXTERIOR ELEVATION - EAST
SCALE: 1/8" = 1'-0"
REFERENCE VIEW: 1 / A300



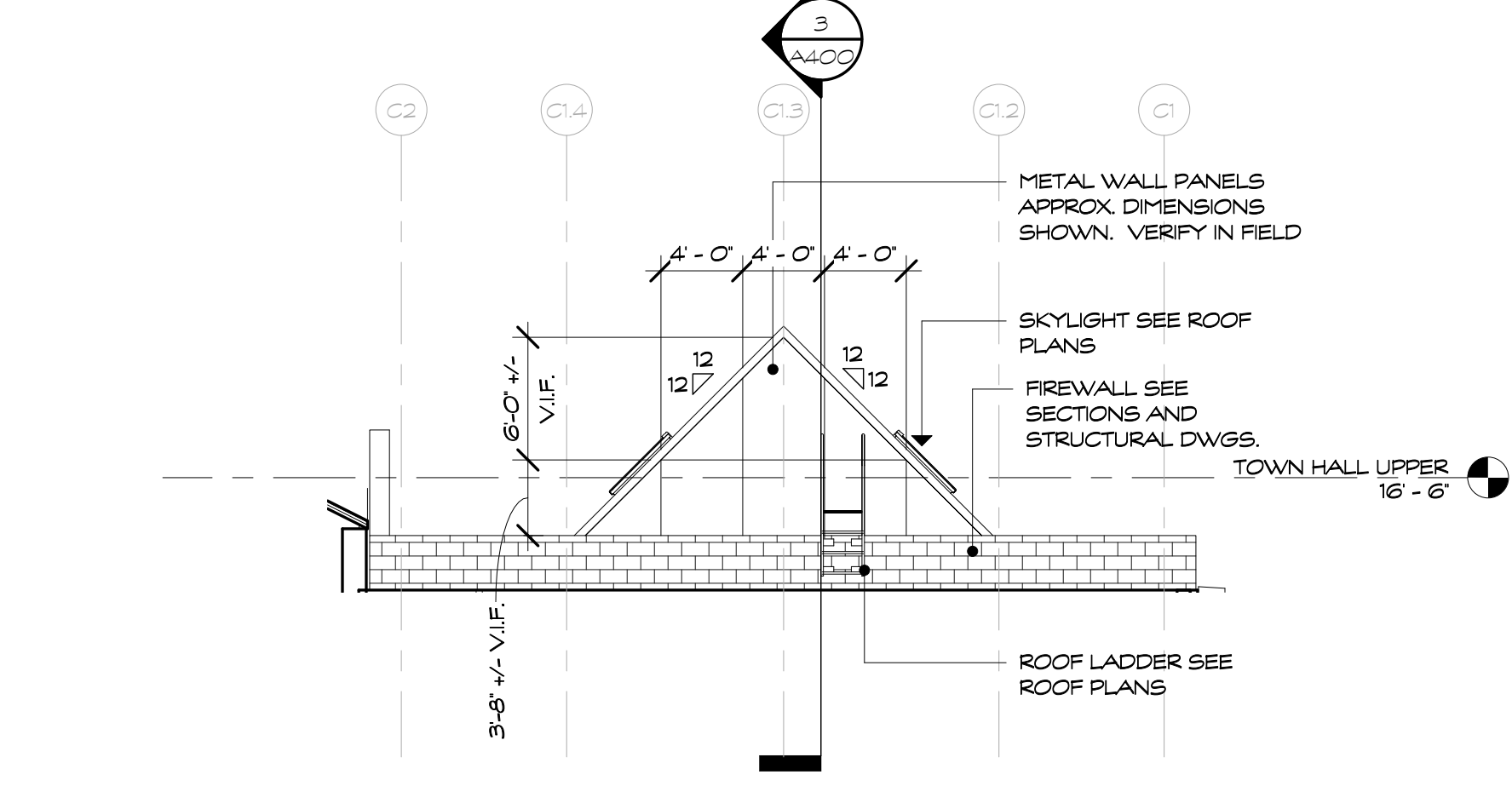
EXTERIOR ELEVATION - PARTIAL EAST
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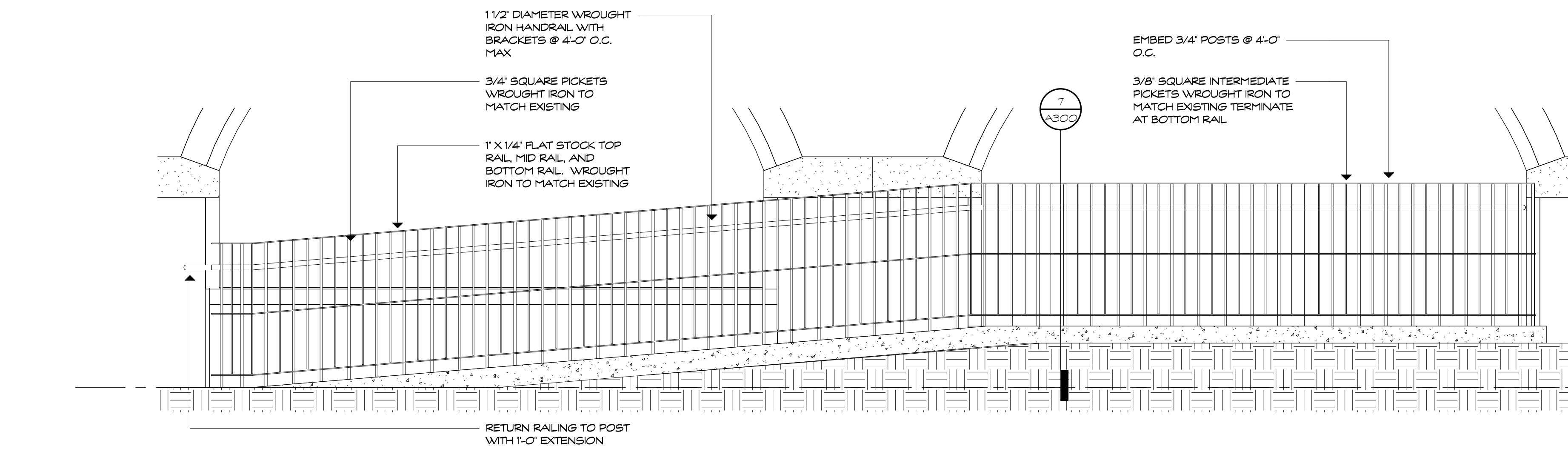
EXTERIOR ELEVATION - PARTIAL NORTH
SCALE: 1/8" = 1'-0"
REFERENCE VIEW: 3 / A300



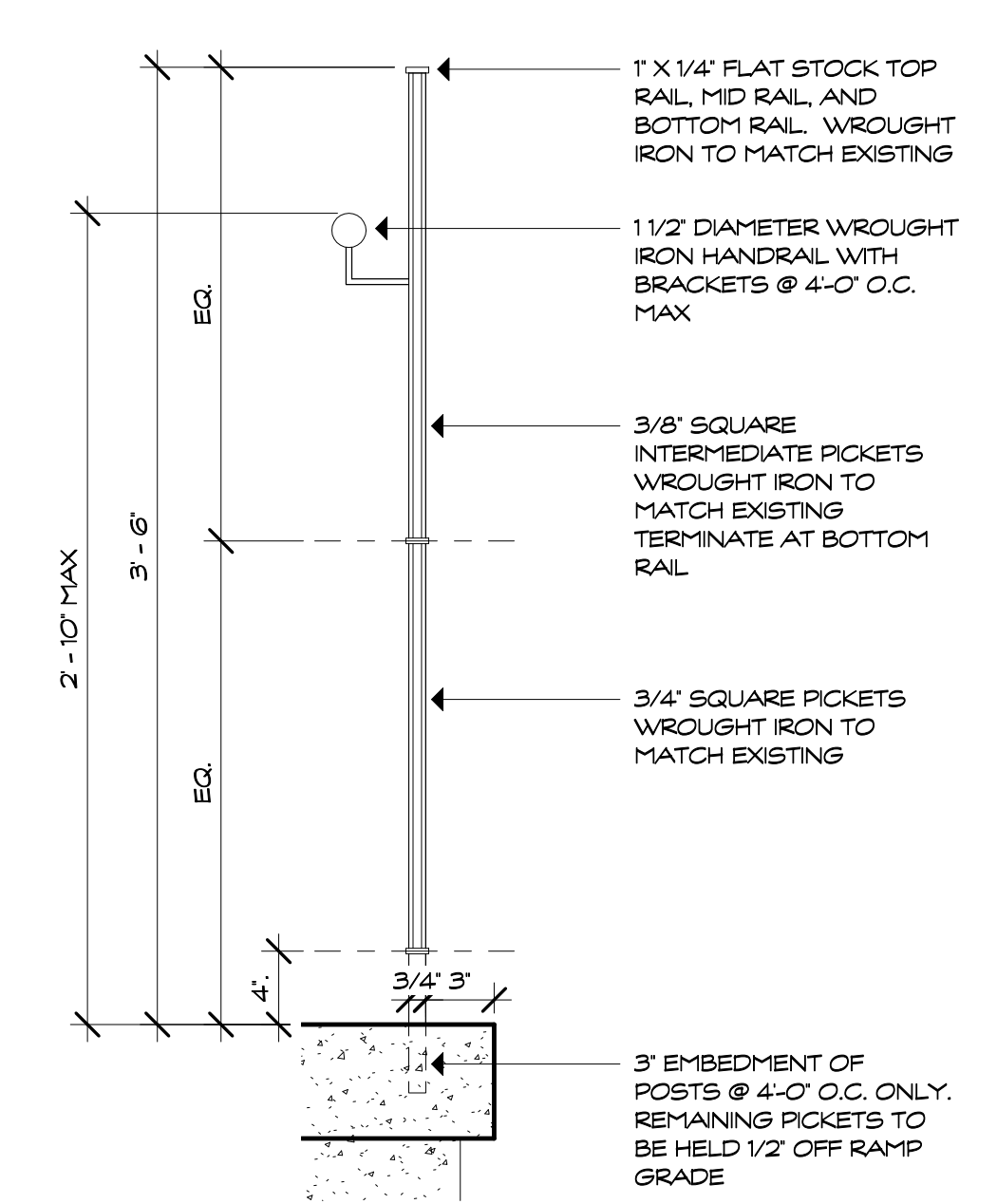
EXTERIOR ELEVATION - PARTIAL SOUTH
SCALE: 1/8" = 1'-0"
REFERENCE VIEW: 4 / A300



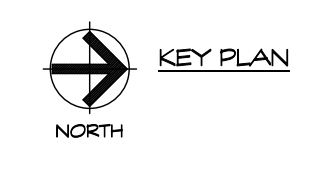
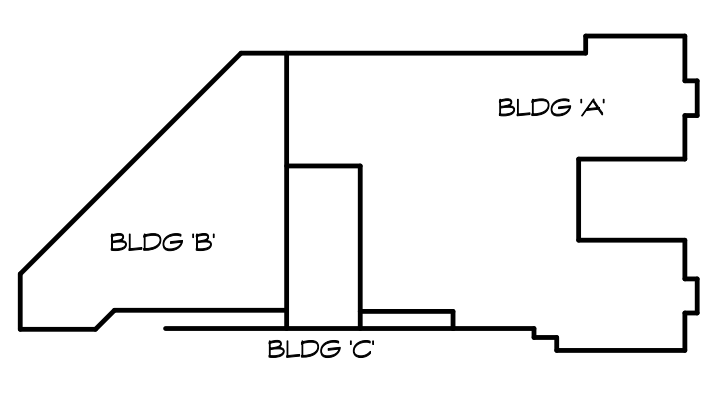
EXTERIOR ELEVATION - PARTIAL WEST
SCALE: 1/8" = 1'-0"
REFERENCE VIEW: 5 / A300



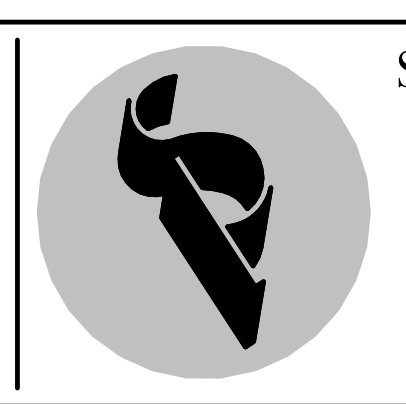
RAILING ELEVATION
SCALE: 1/2" = 1'-0"
REFERENCE VIEW: 6 / A300



EXTERIOR RAILING SECTION
SCALE: 1 1/2" = 1'-0"
REFERENCE VIEW: 7 / A300



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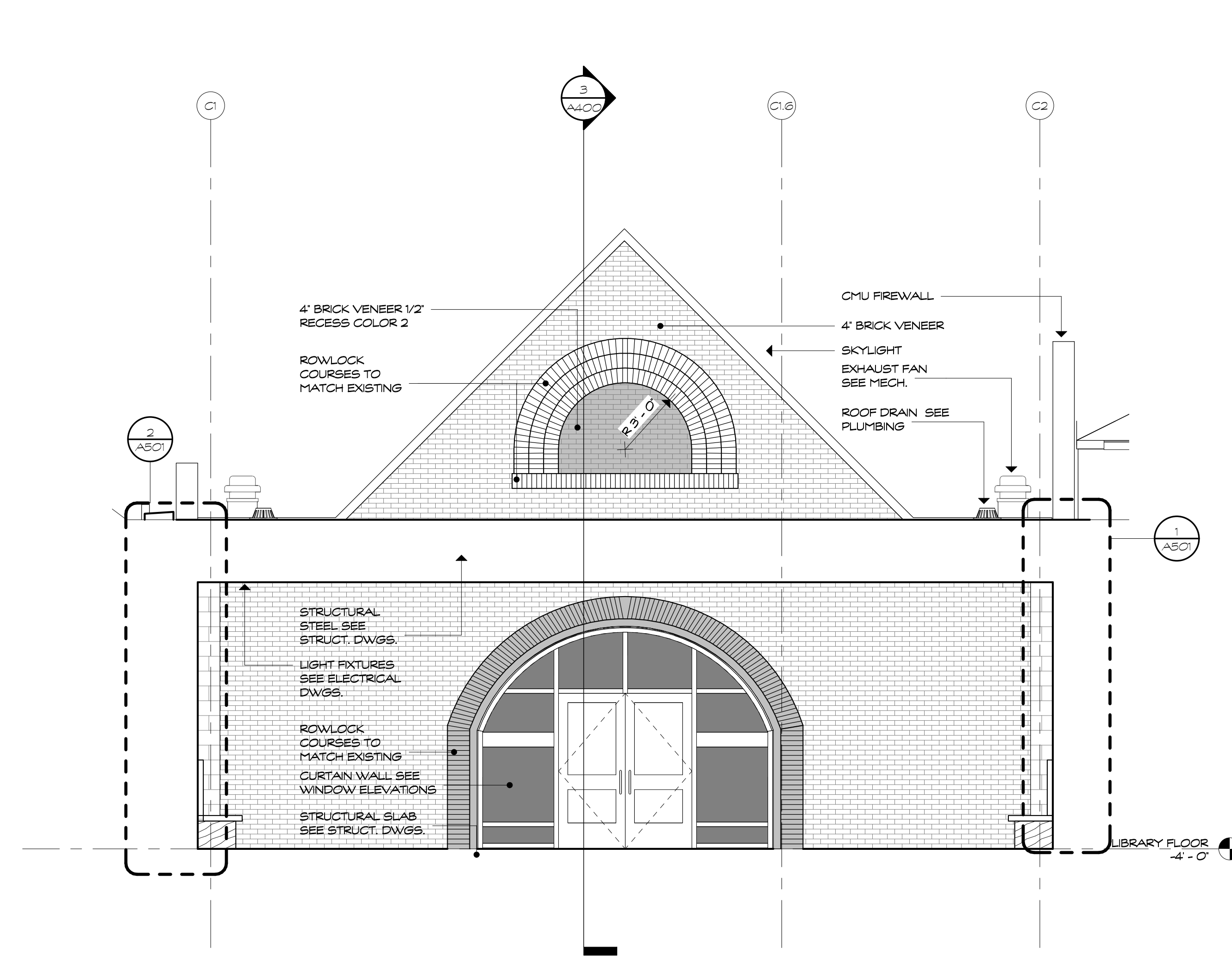
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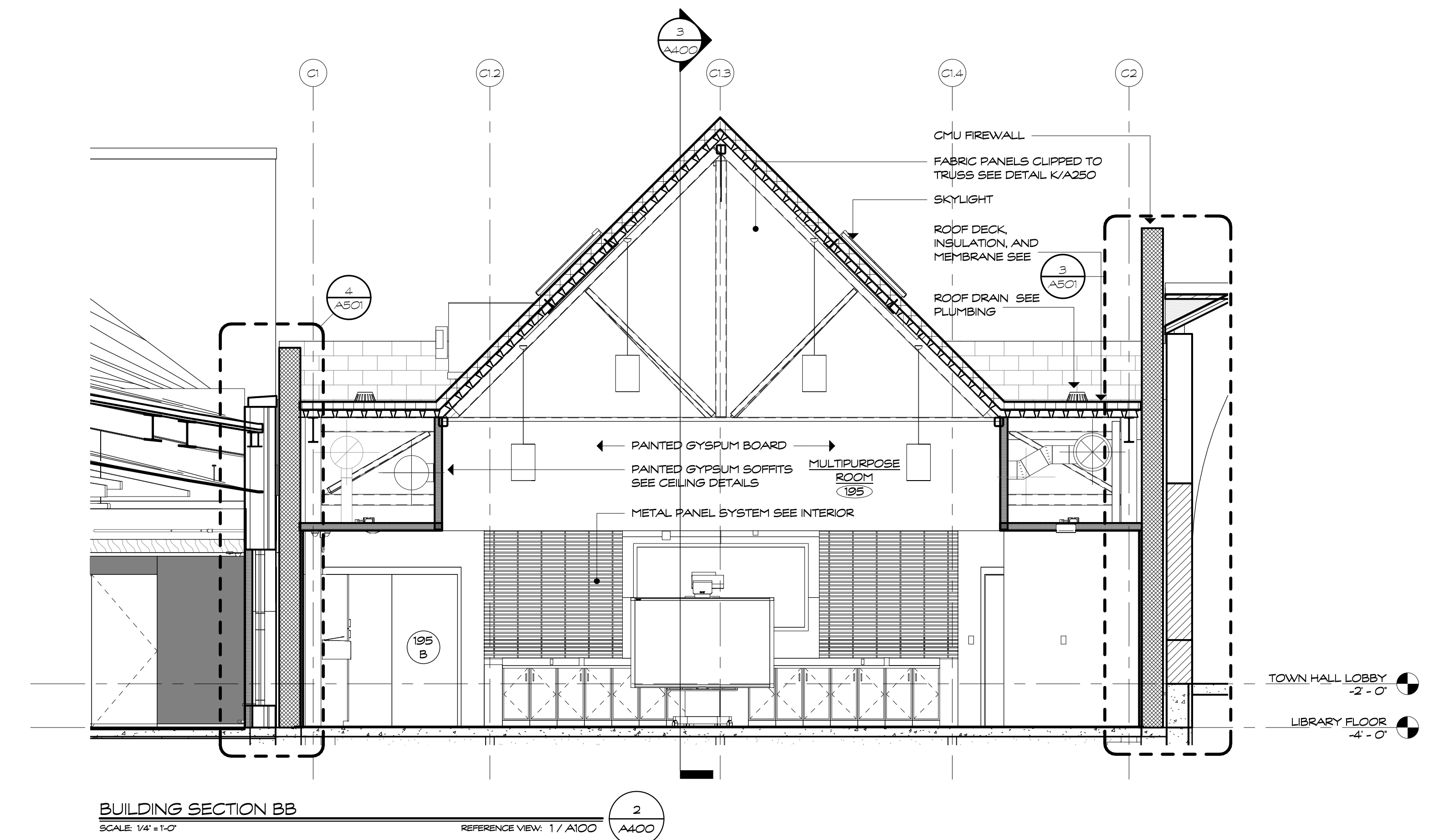
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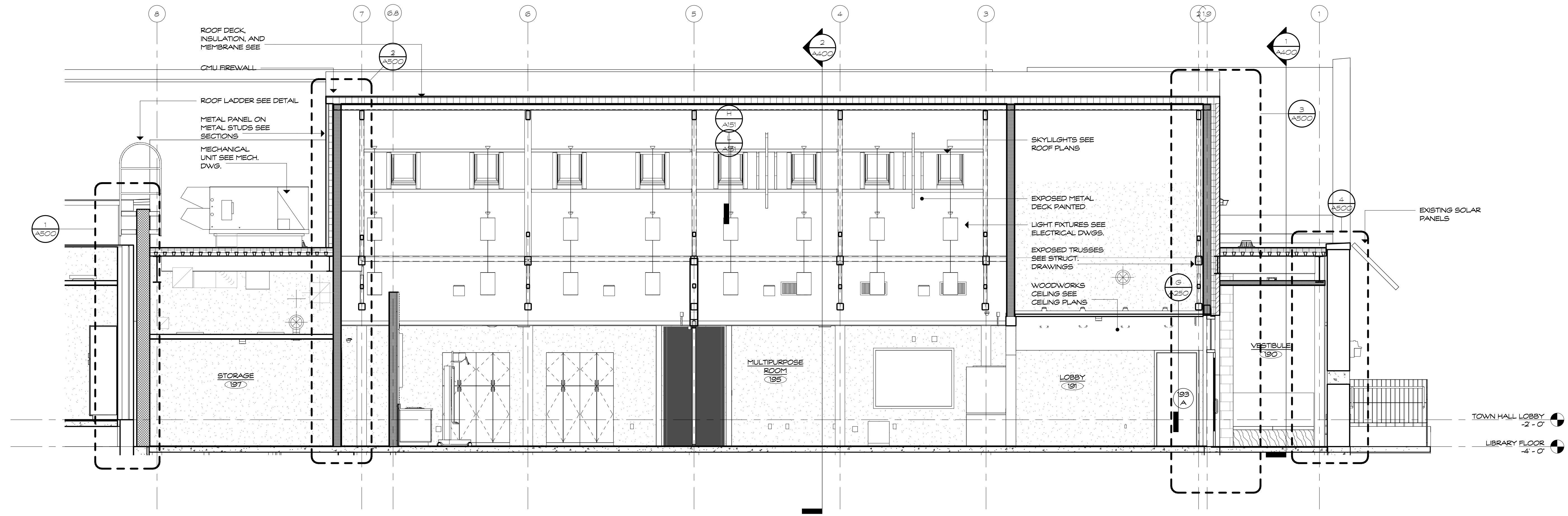
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Author:
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Drawing Number: **A300**



BUILDING SECTION AA
 SCALE: 1/4" = 1'-0"
 REFERENCE VIEW: 1 / A100



BUILDING SECTION BB
 SCALE: 1/4" = 1'-0"
 REFERENCE VIEW: 1 / A100



BUILDING SECTION CC
 SCALE: 1/4" = 1'-0"
 REFERENCE VIEW: 1 / A100

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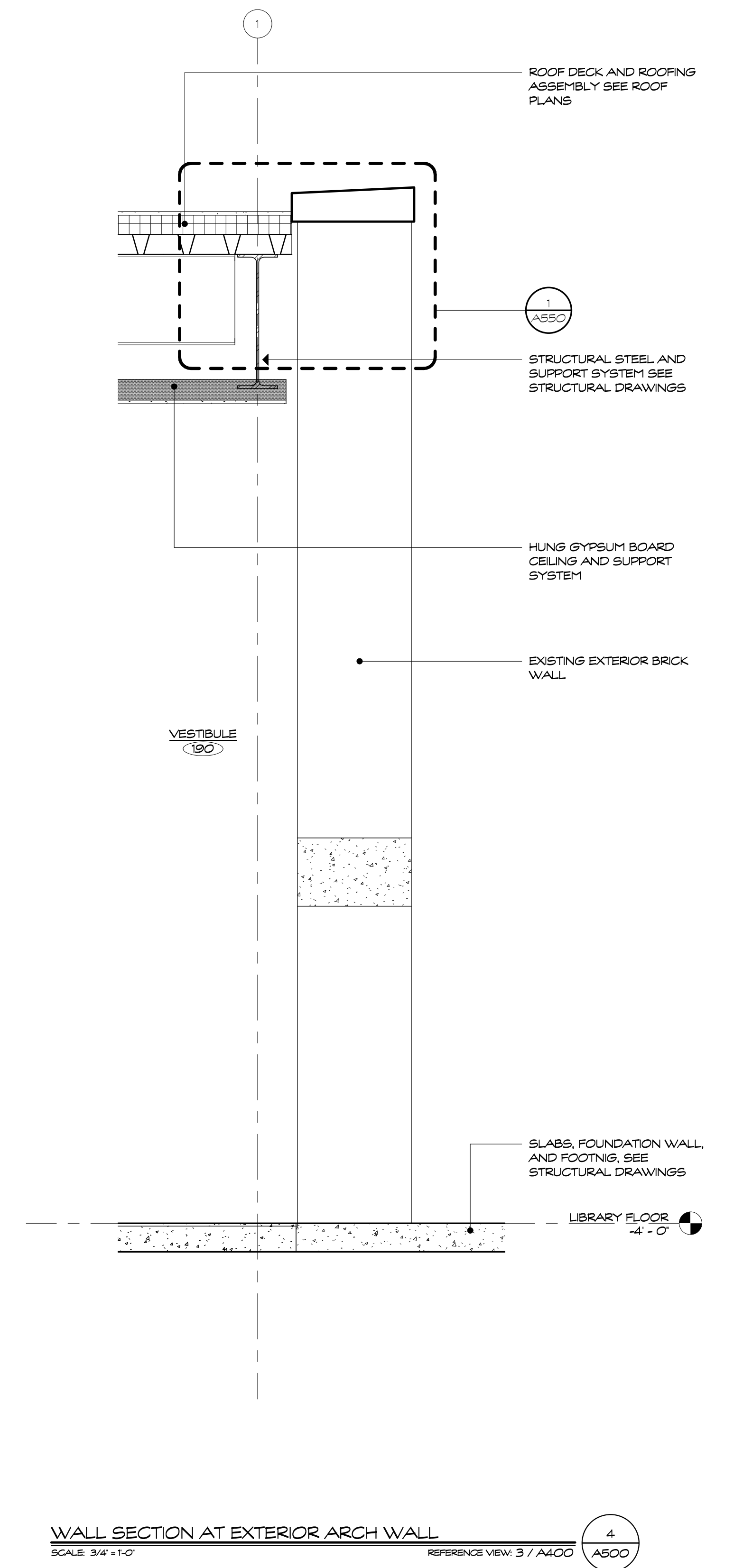
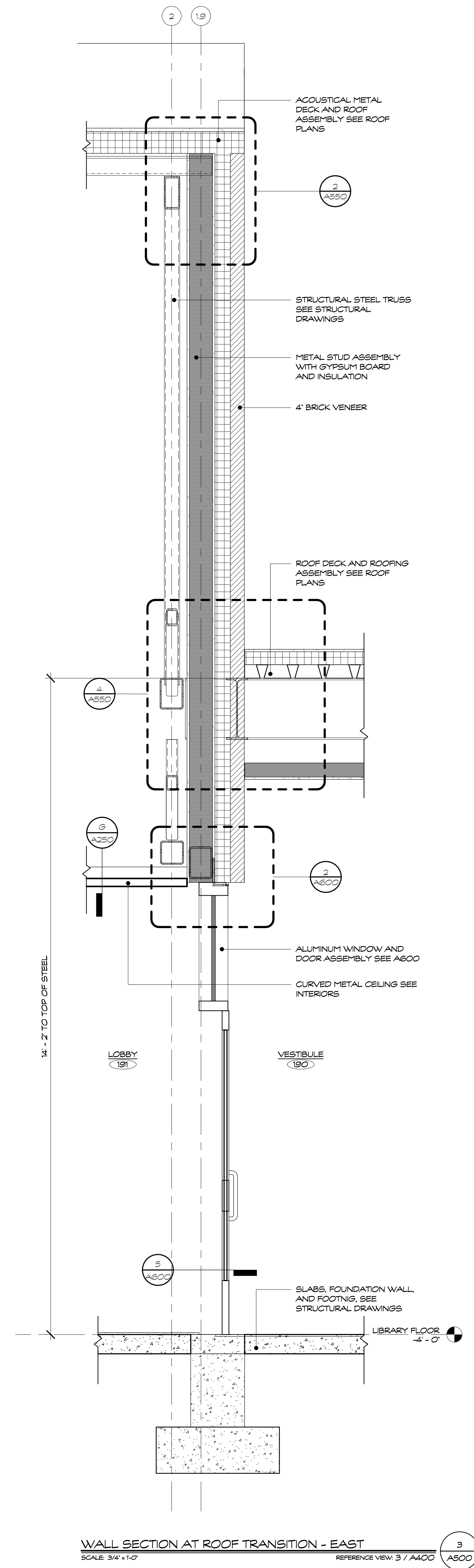
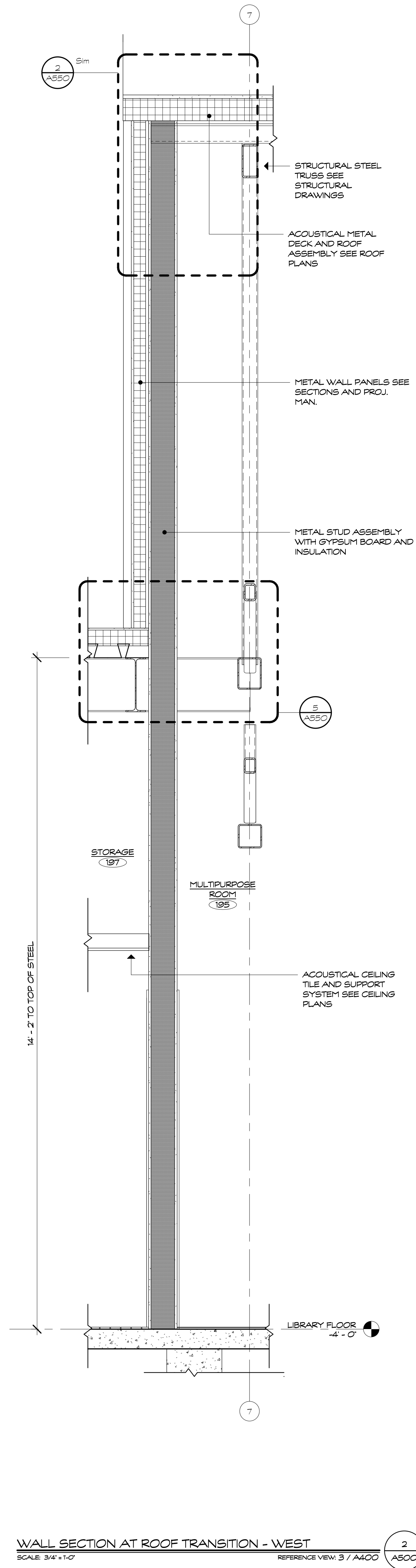
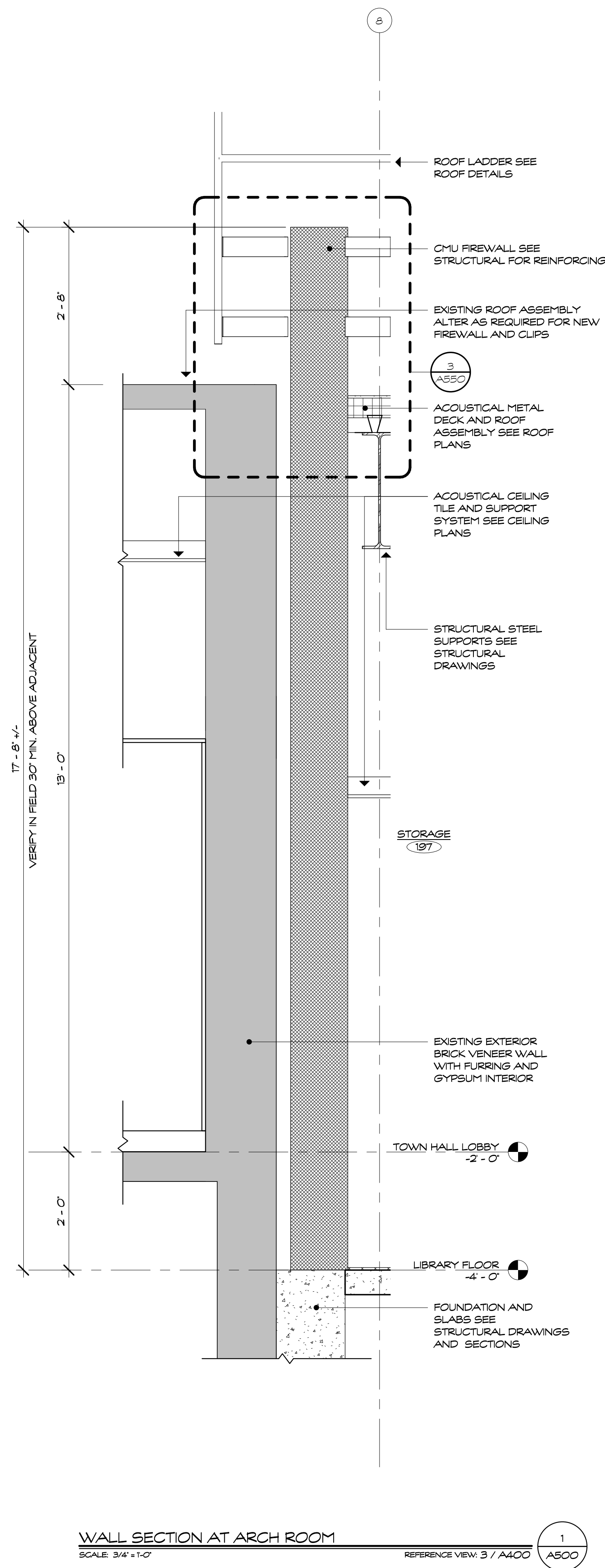


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BUILDING SECTIONS

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 Project Number: 17.025
 Drawing Number: **A400**



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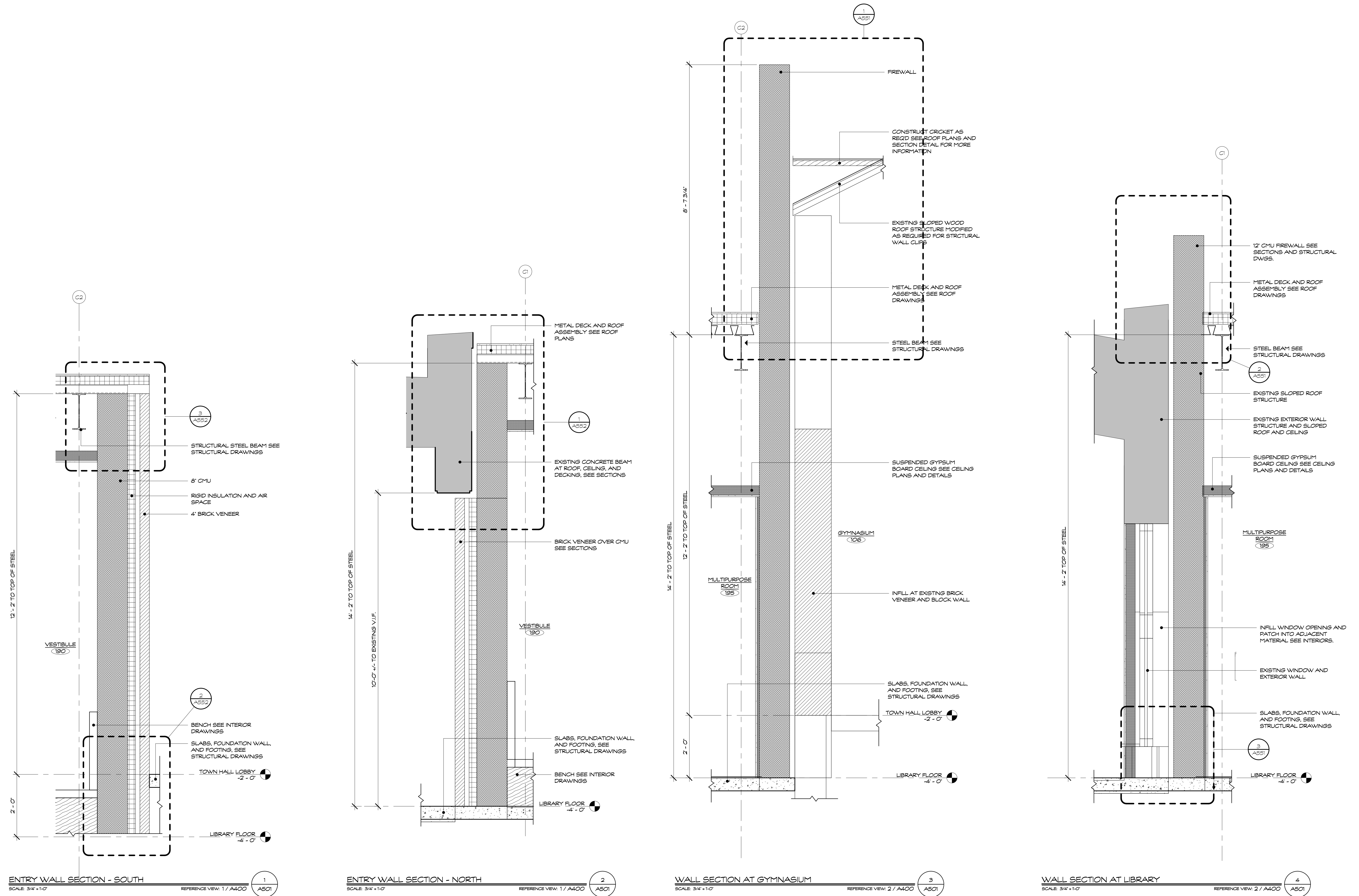
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Drawing Title:
WALL SECTIONS

Date:
JUL 17, 2018
Scale:
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Drawn By:
Author:
Project Number:
17.025

Drawing Number:
A500



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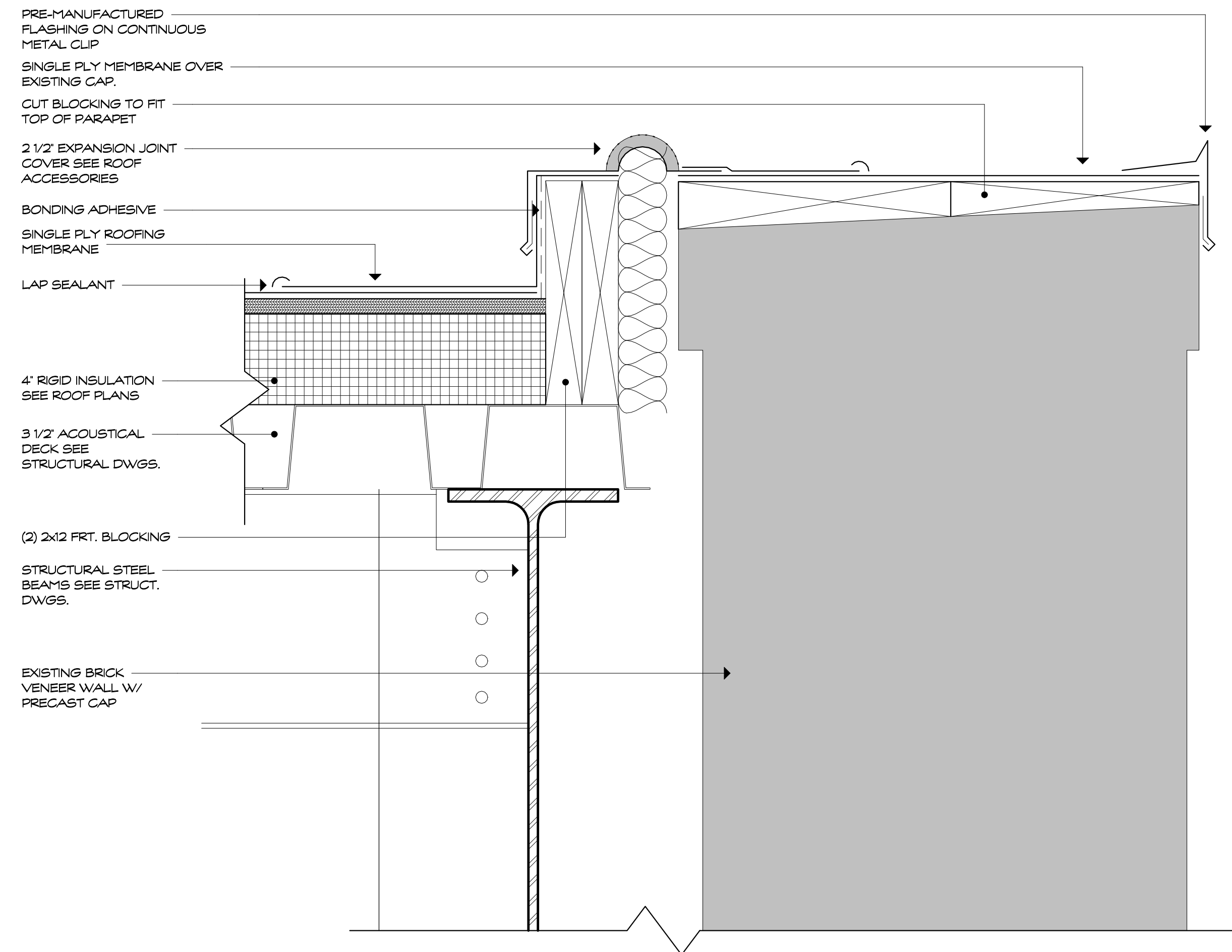


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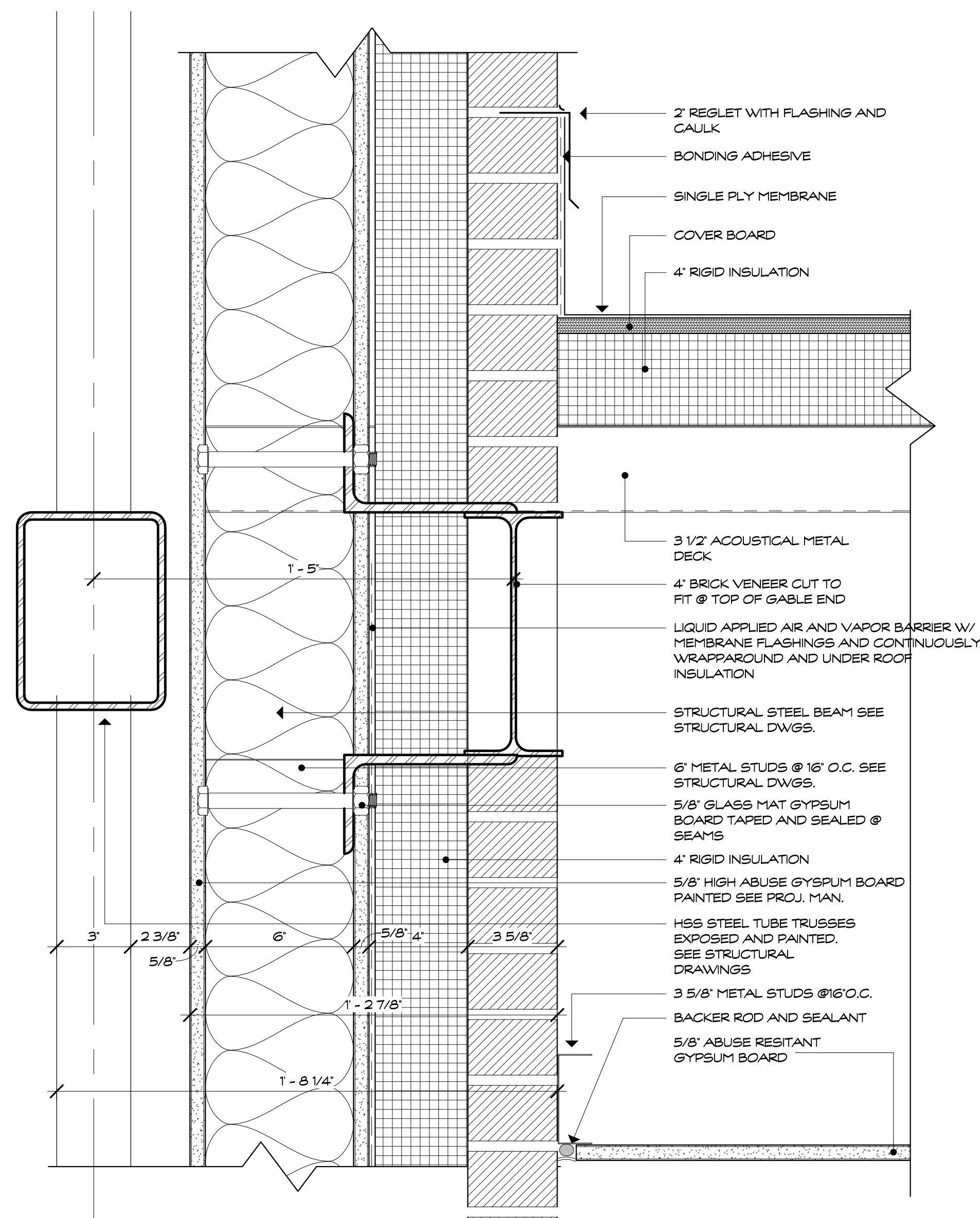
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WALL SECTIONS

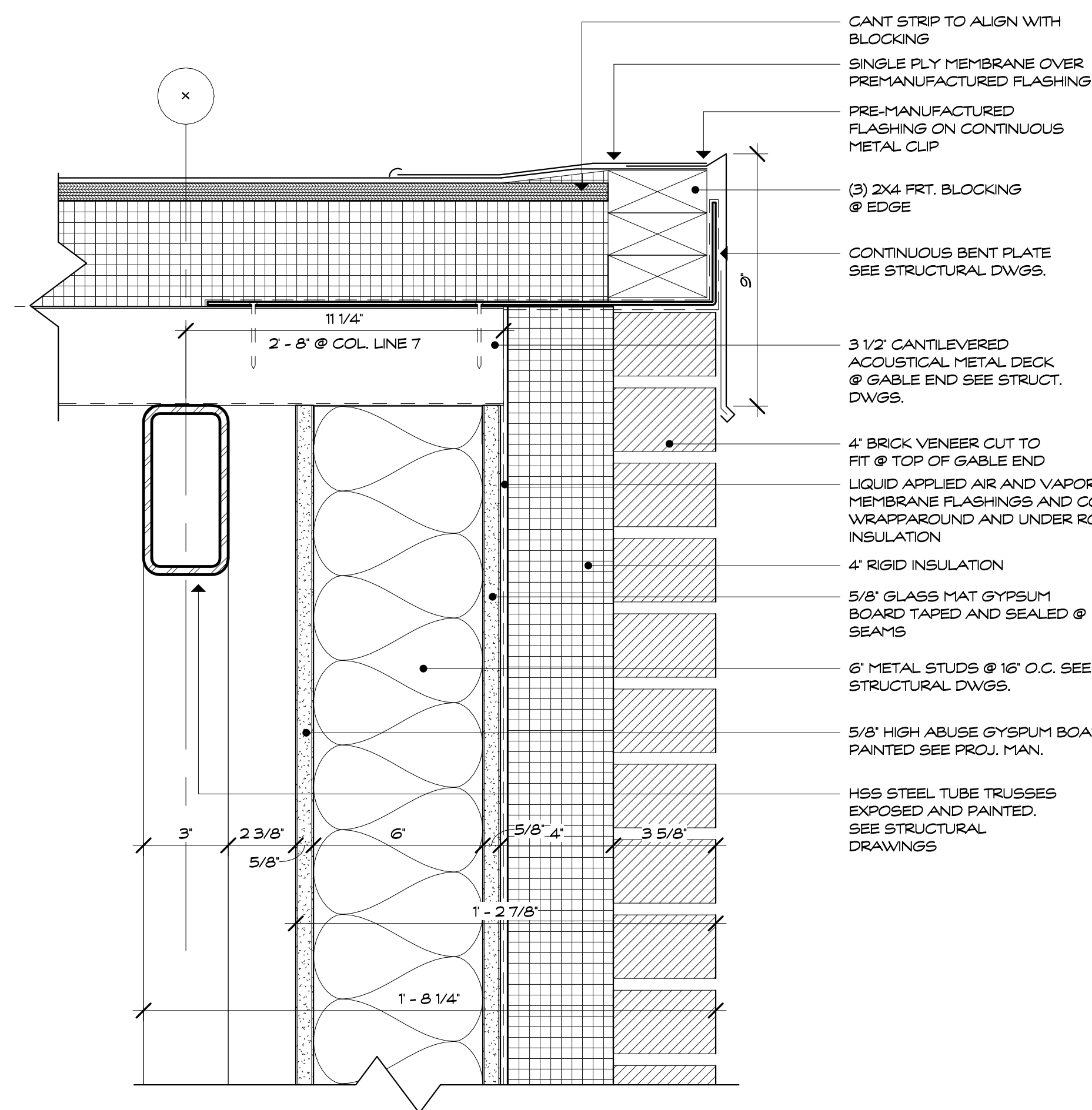
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 Drawing Number: **A501**



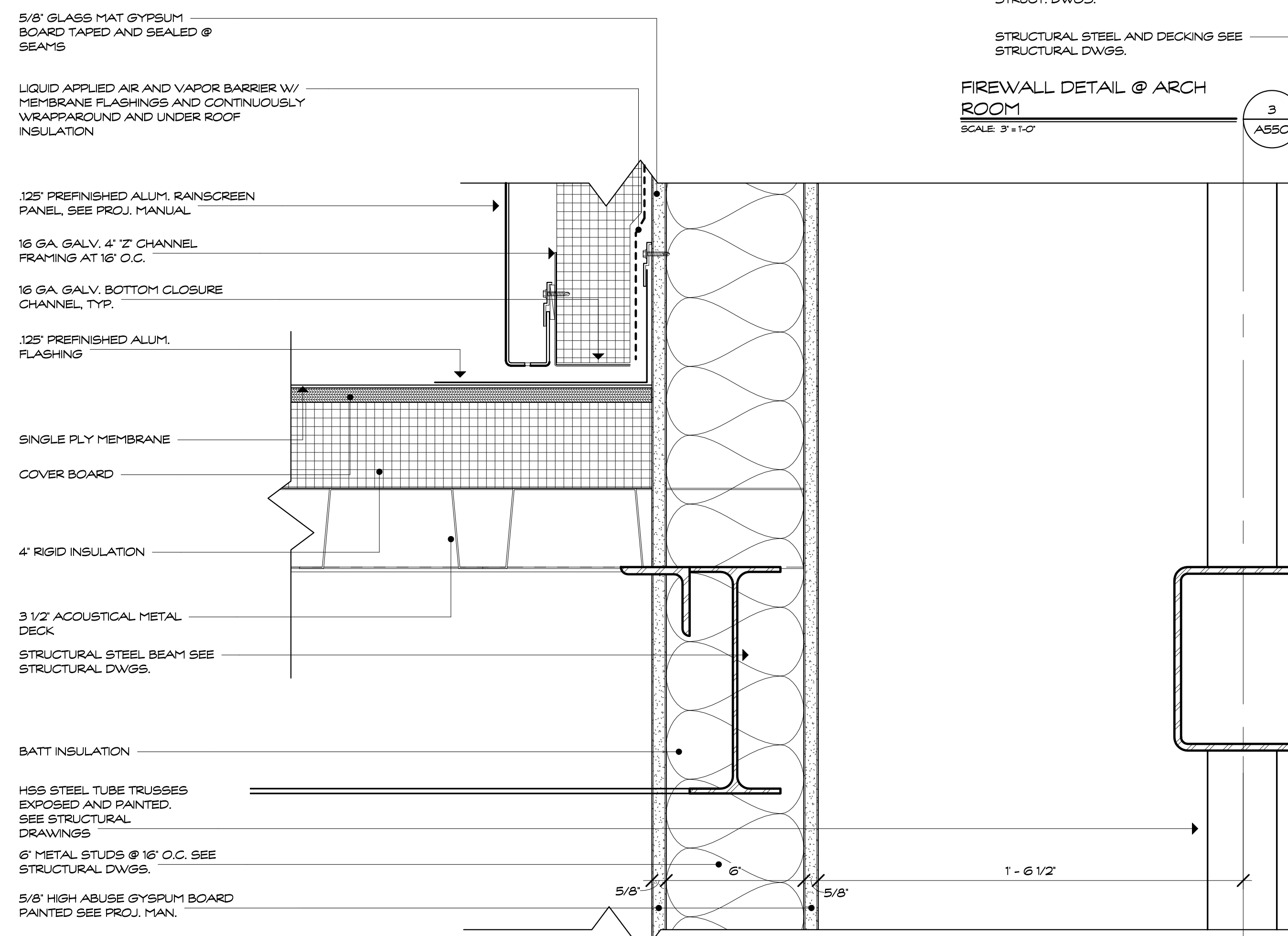
EXPANSION JOINT AT EXISTING ARCH
SCALE 3" = 1'-0"



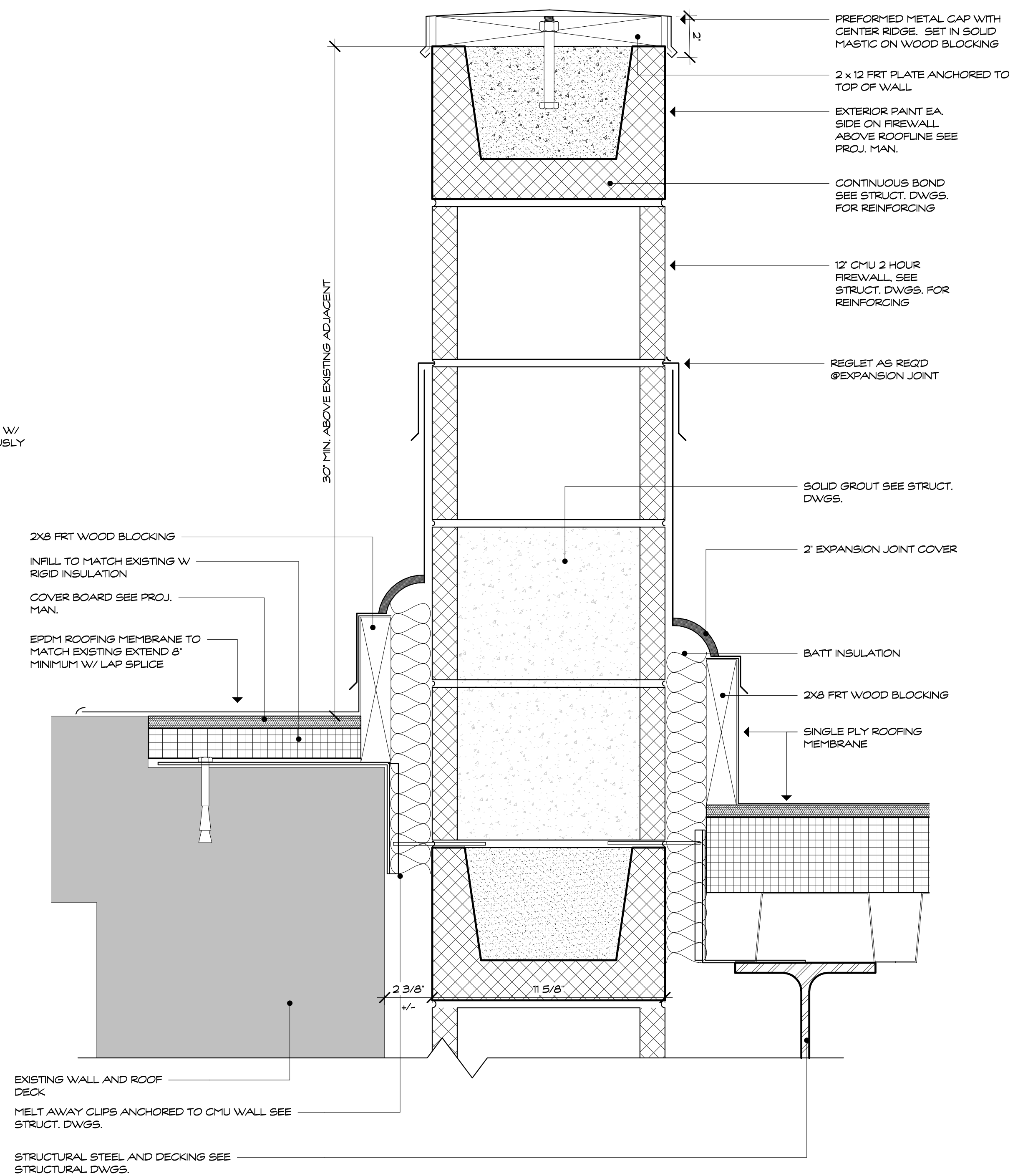
LOW ROOF INTERSECTION WITH TRUSS DETAIL
SCALE 3" = 1'-0"



GABLE END DETAIL @ PEAK
SCALE 3" = 1'-0"

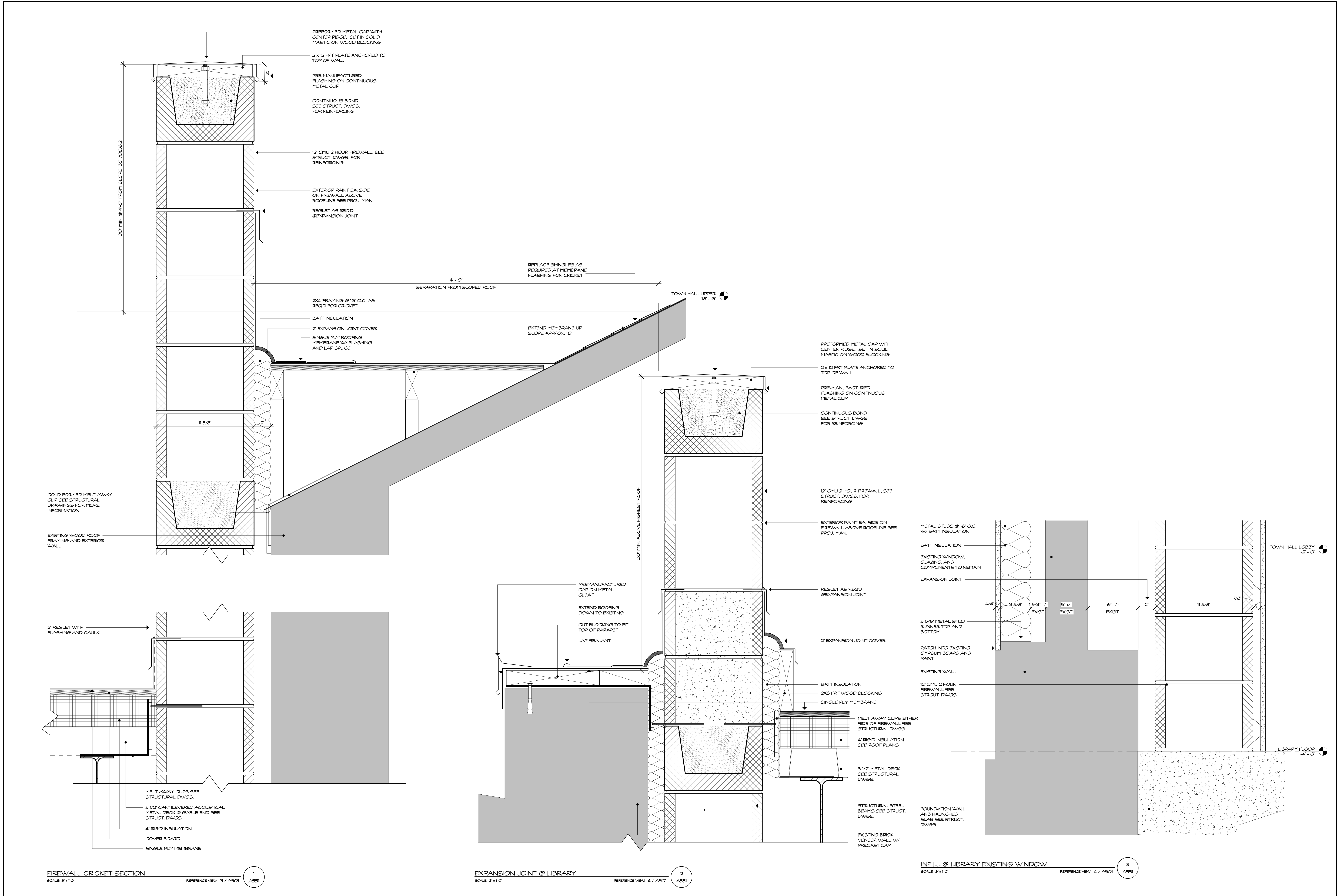


LOW ROOF INTERSECTION @ COLUMN LINE 8
SCALE 3" = 1'-0"



FIREWALL DETAIL @ ARCH ROOM
SCALE 3" = 1'-0"





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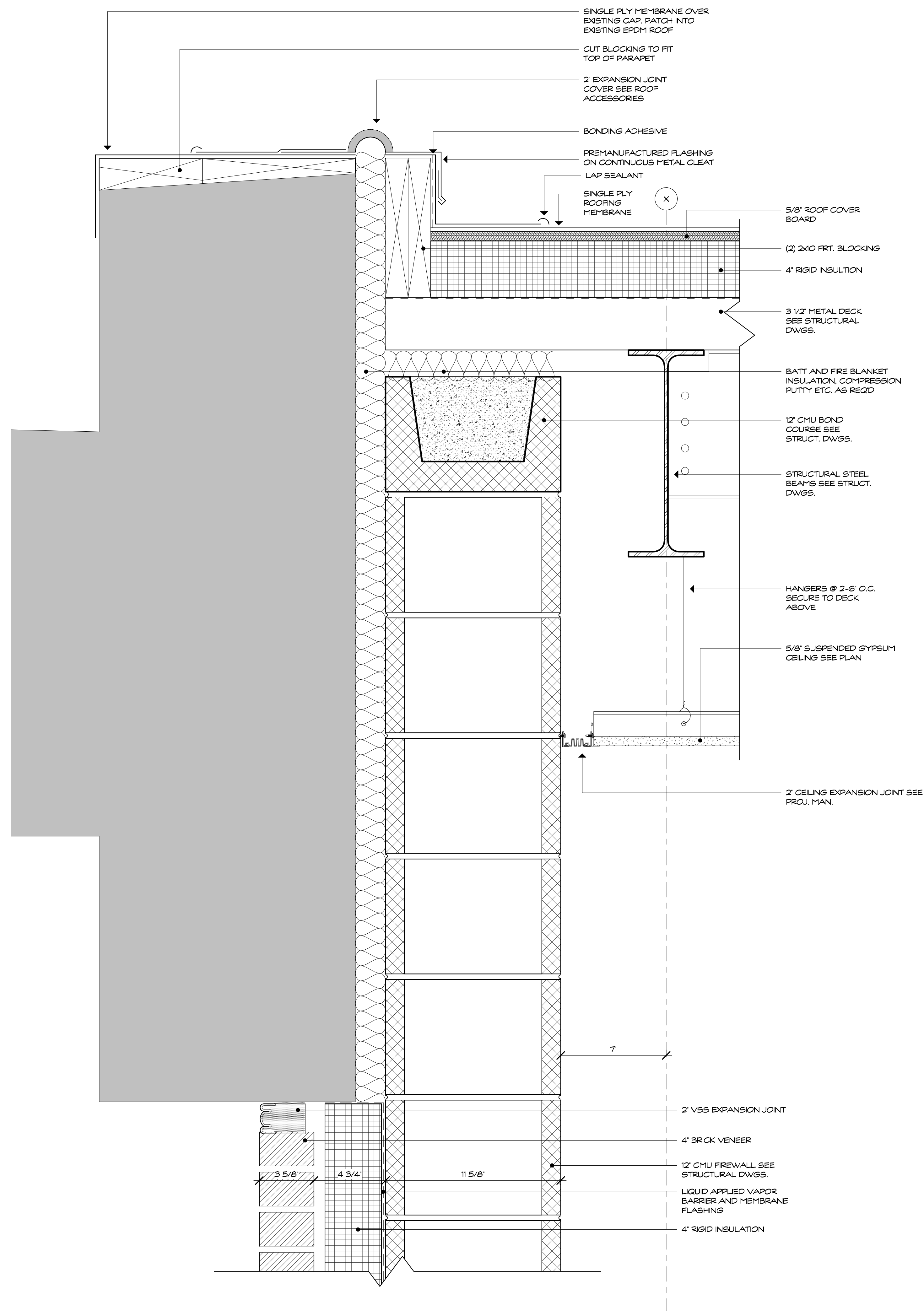


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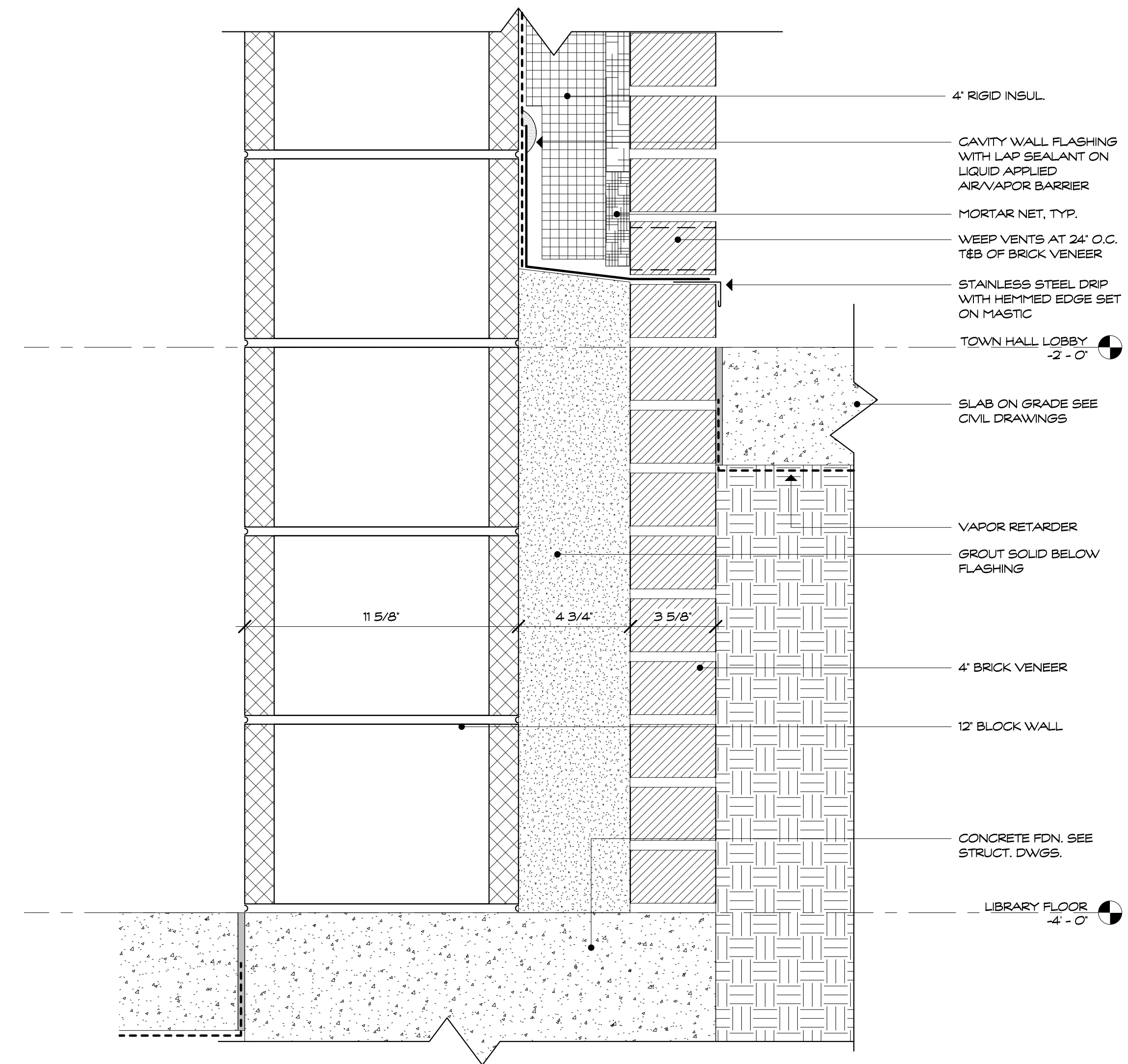
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SECTION DETAILS

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 Author: **A551**
 Project Number: 17.025
 Drawing Number: **A551**



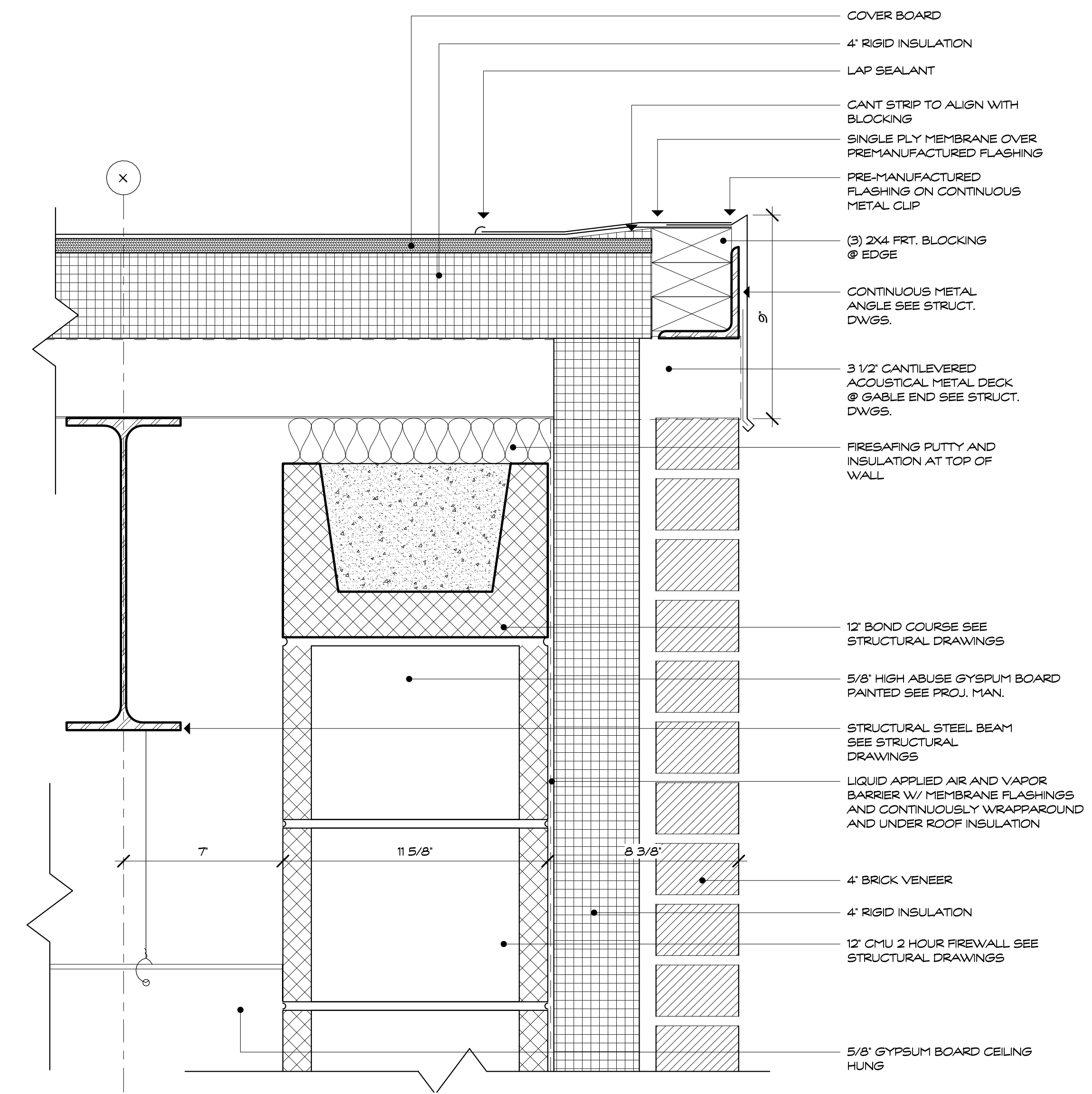
EXPANSION JOINT @ EXISTING PRECAST
SCALE: 3" = 1'-0"
REFERENCE VIEW: 2 / A501

1
A552



SECTION @ RAISED SLAB
SCALE: 3" = 1'-0"
REFERENCE VIEW: 1 / A501

2
A552



ENTRY EDGE DETAIL
SCALE: 3" = 1'-0"
REFERENCE VIEW: 1 / A501

3
A552

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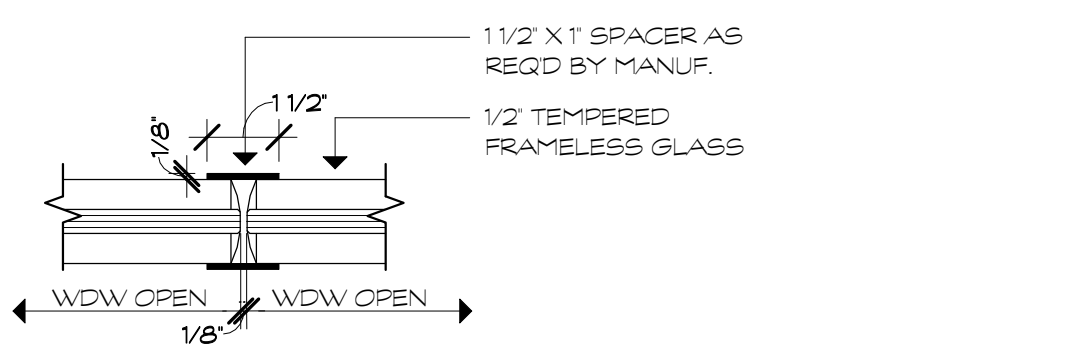
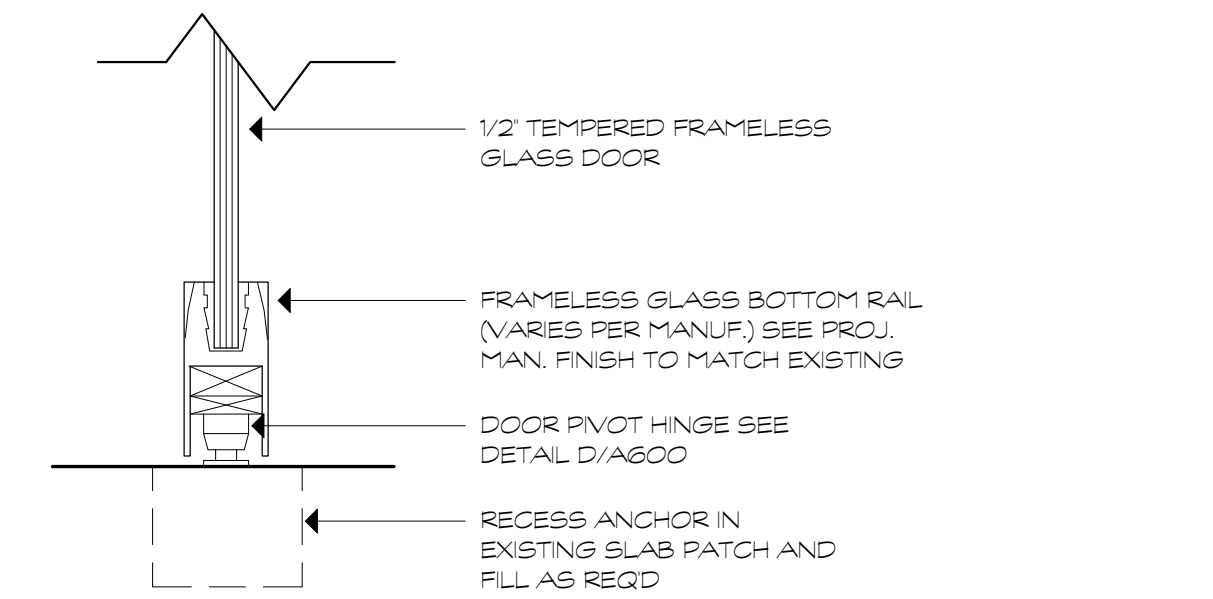
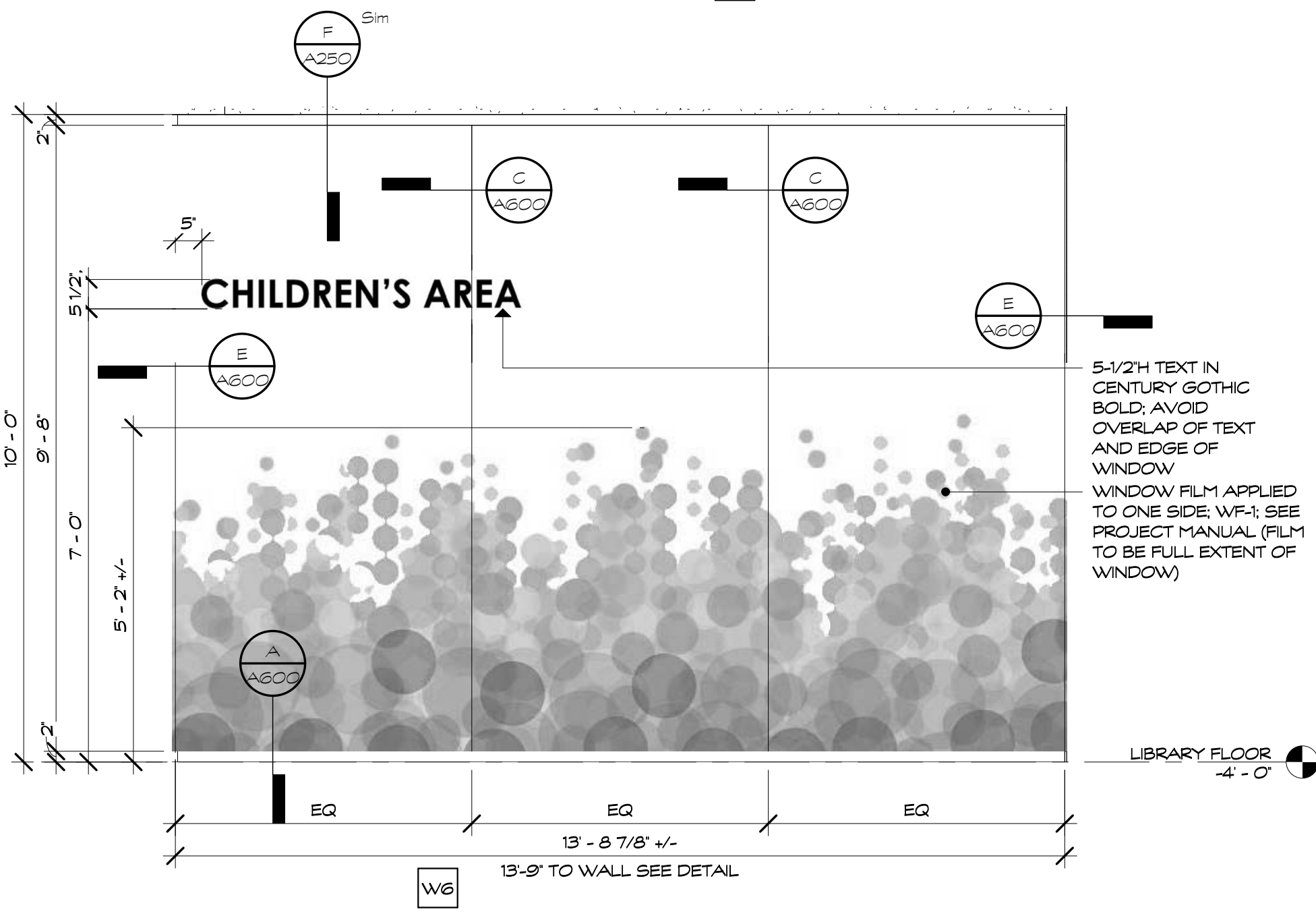
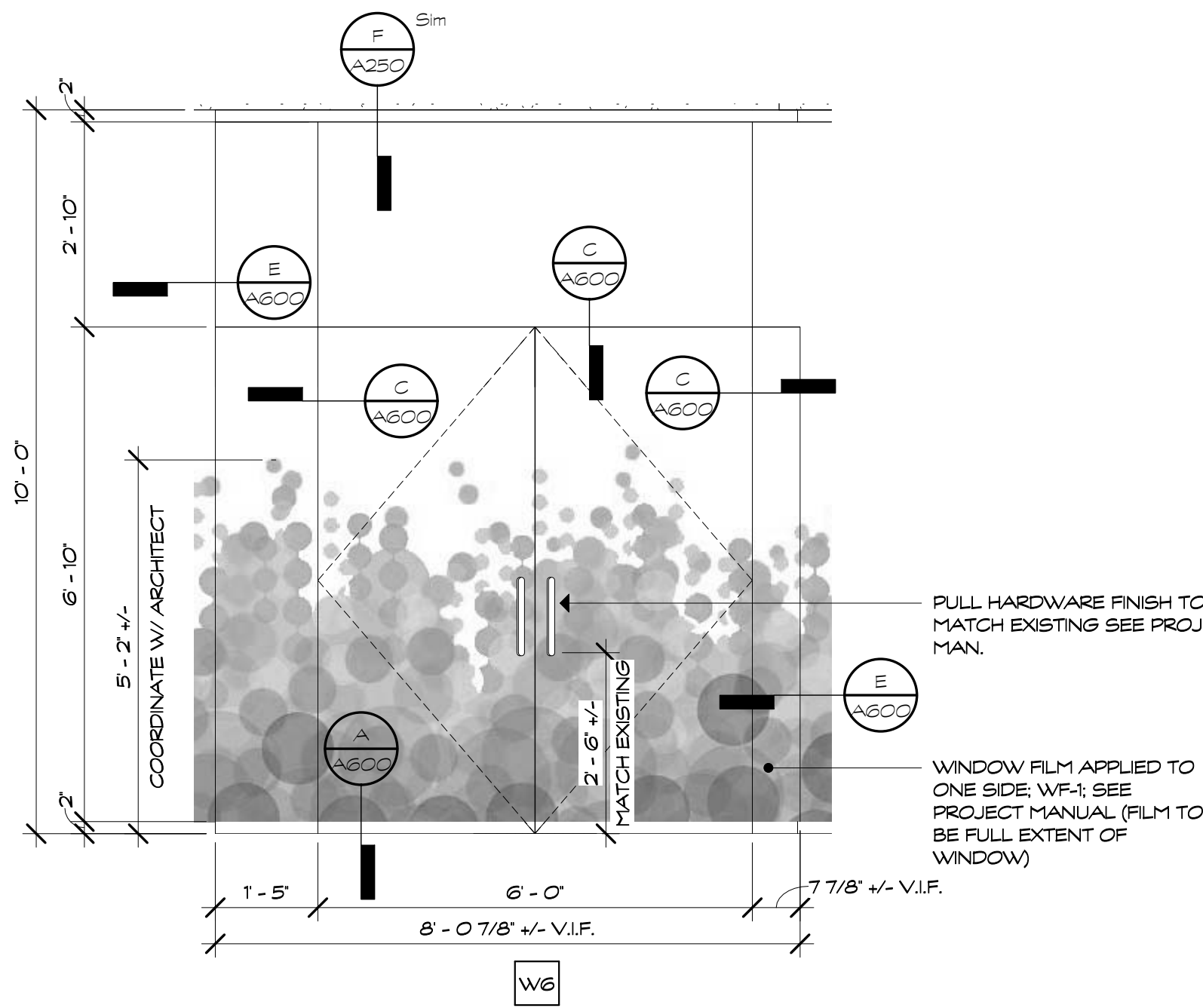
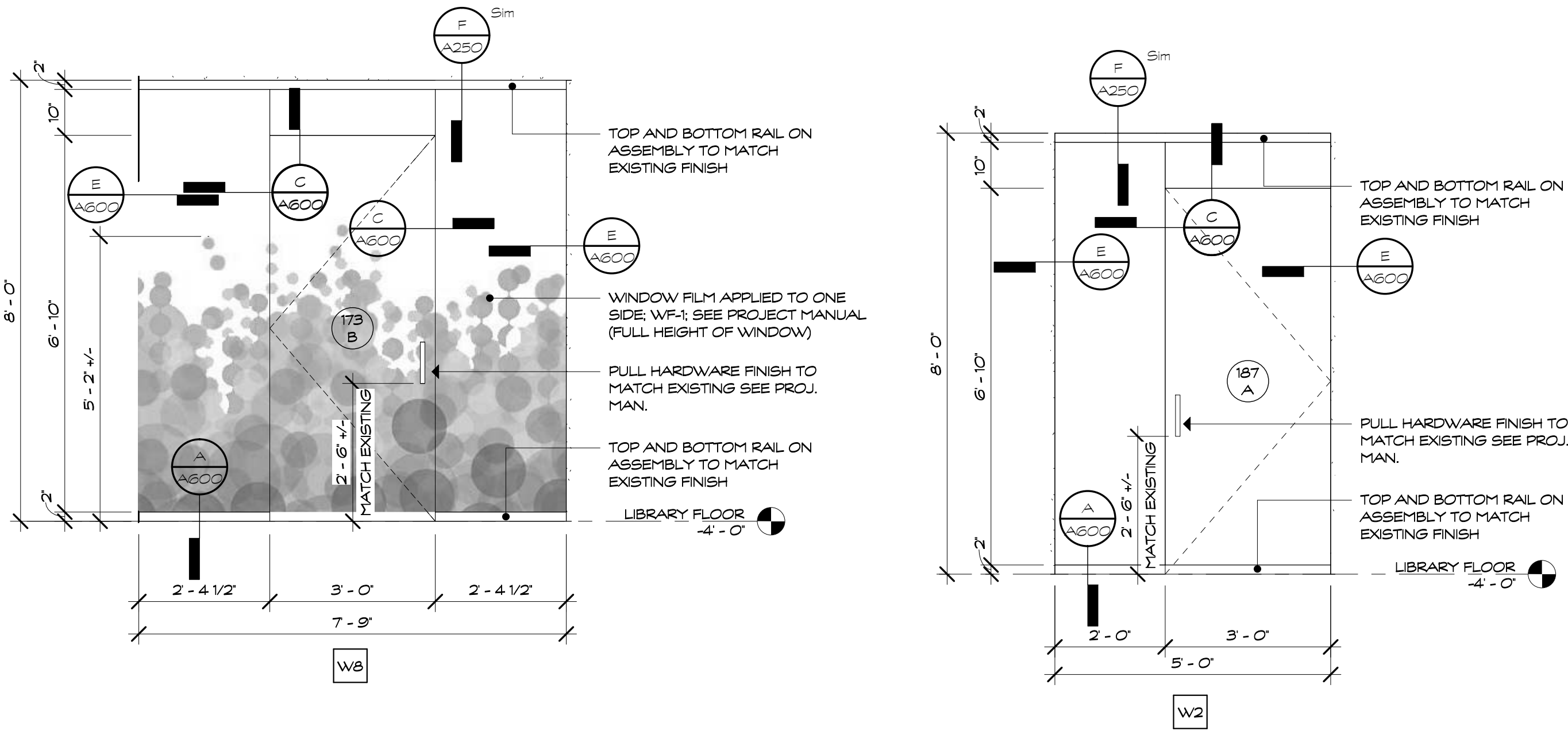
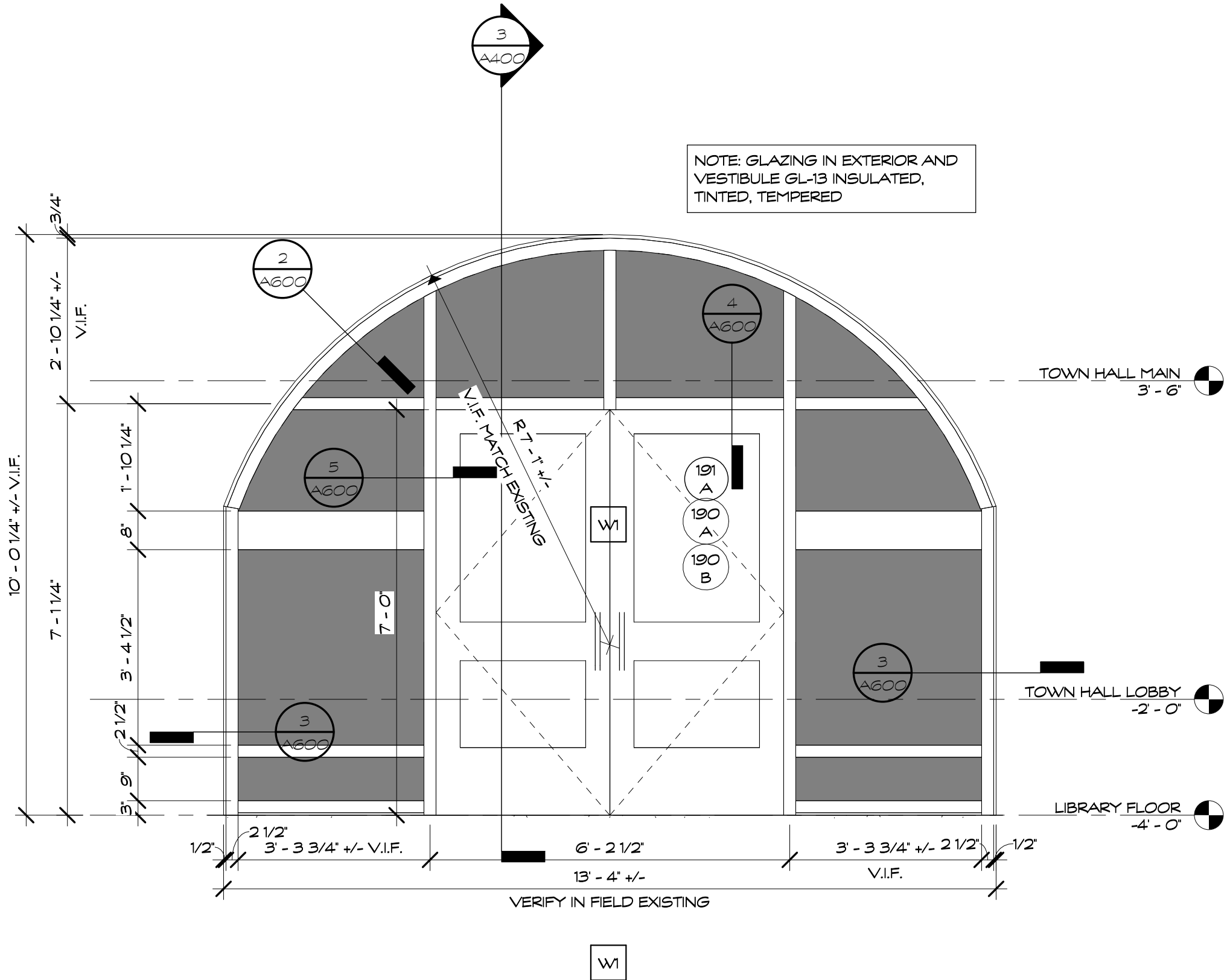
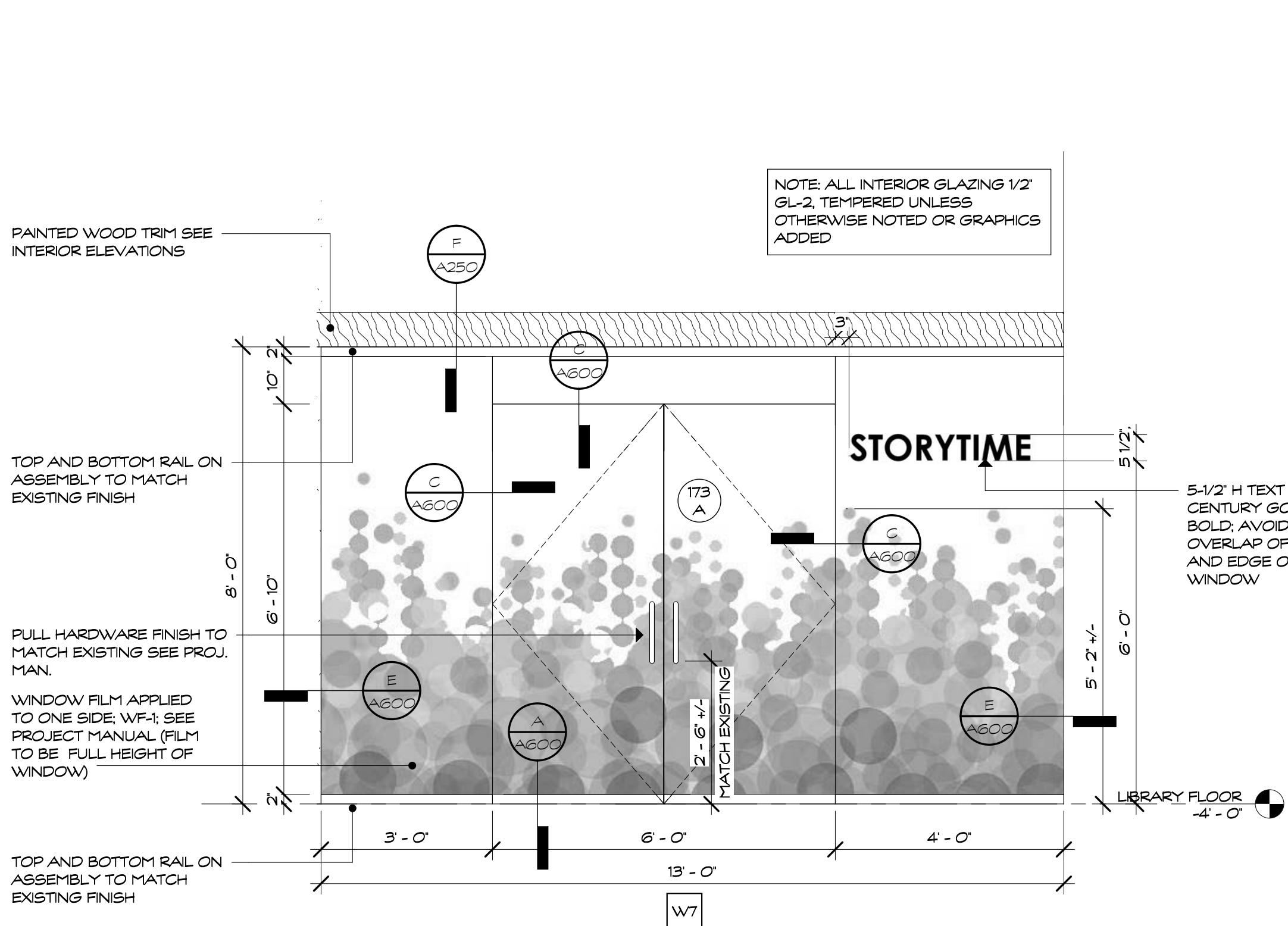
Revision:	Description:	Date:	Revised By:

Drawing Title:
SECTION DETAILS

Date:
JUL 17, 2018
Scale:
3" = 1'-0"
Drawn By:
Author:
Project Number:
17.025

A552

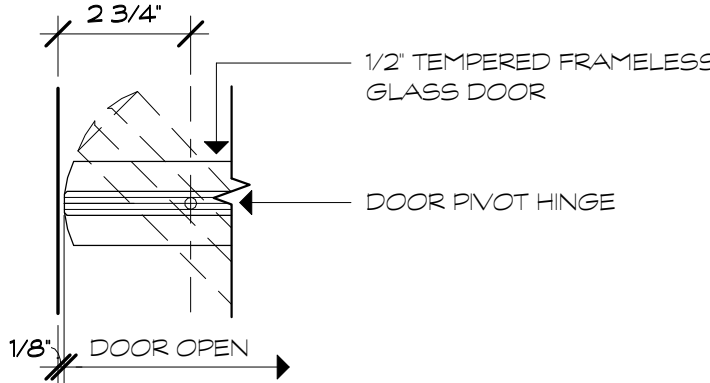
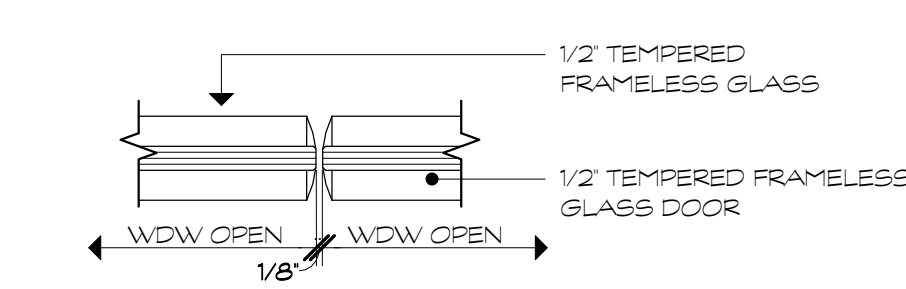
GLAZING SCHEDULE	
GL-0	DECORTIVE FILM (REFER TO WF-1)
GL-2	CLEAR, TEMPERED
GL-6	CLEAR, FIRE RATED
GL-13	INSULATED, TINTED, TEMPERED
GL-23	INSULATED, BLAST RESISTANT, TINTED



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

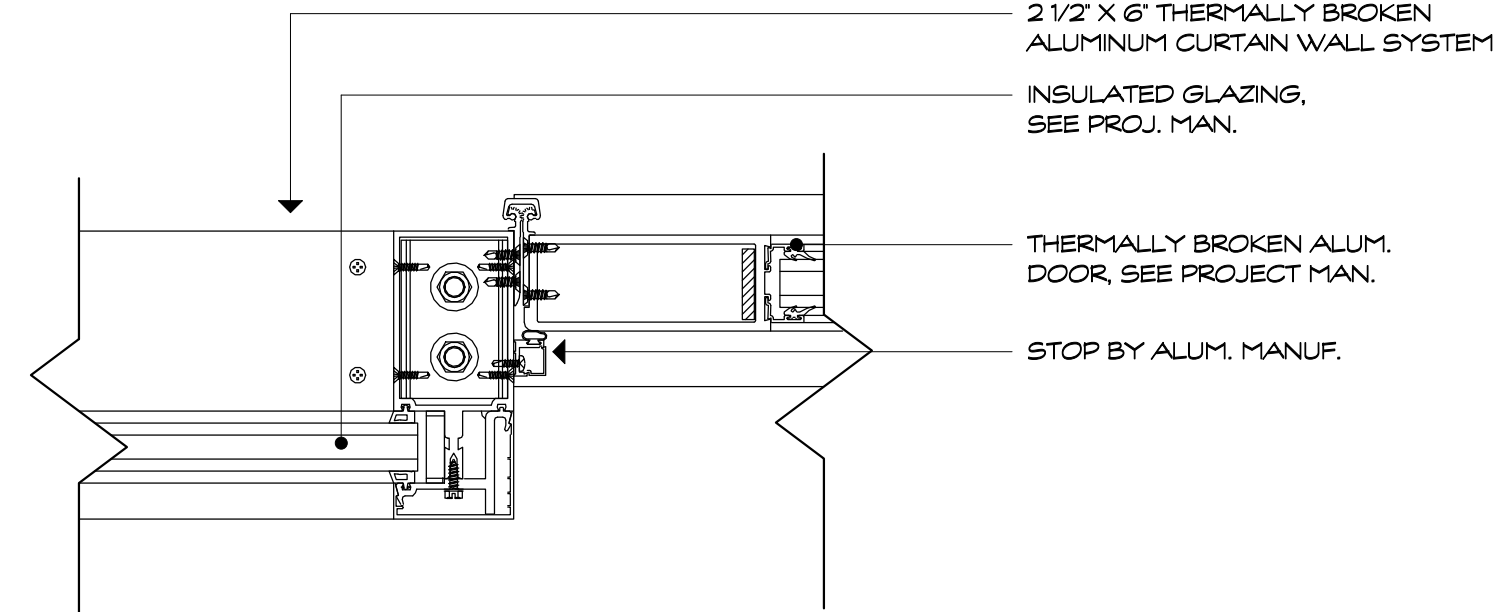
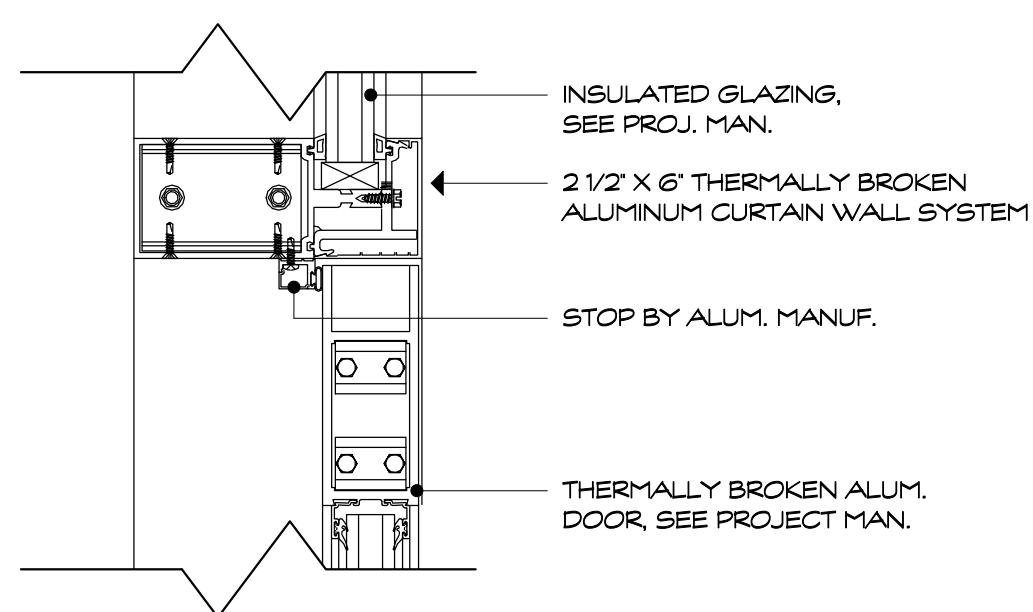
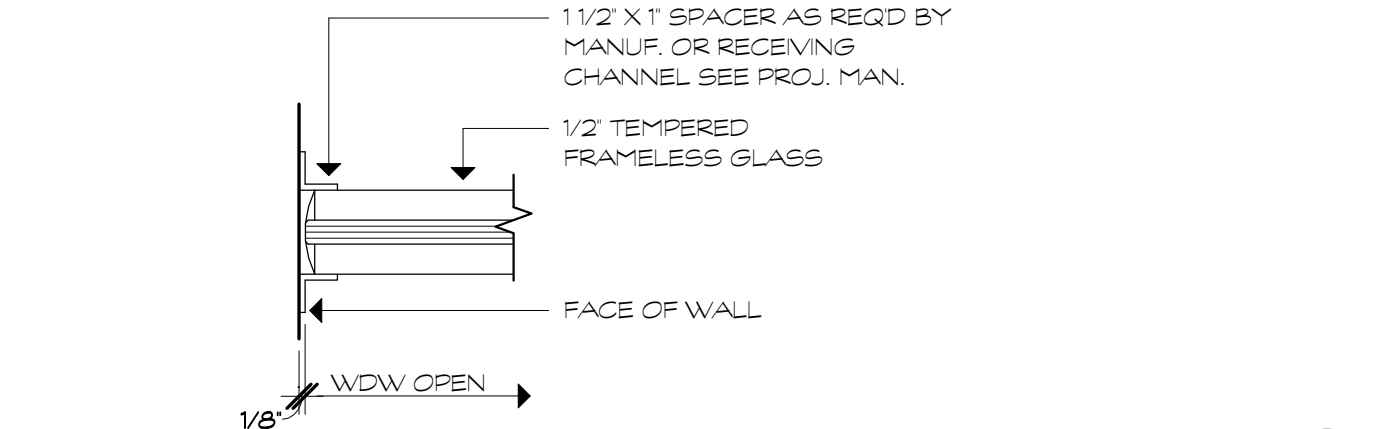
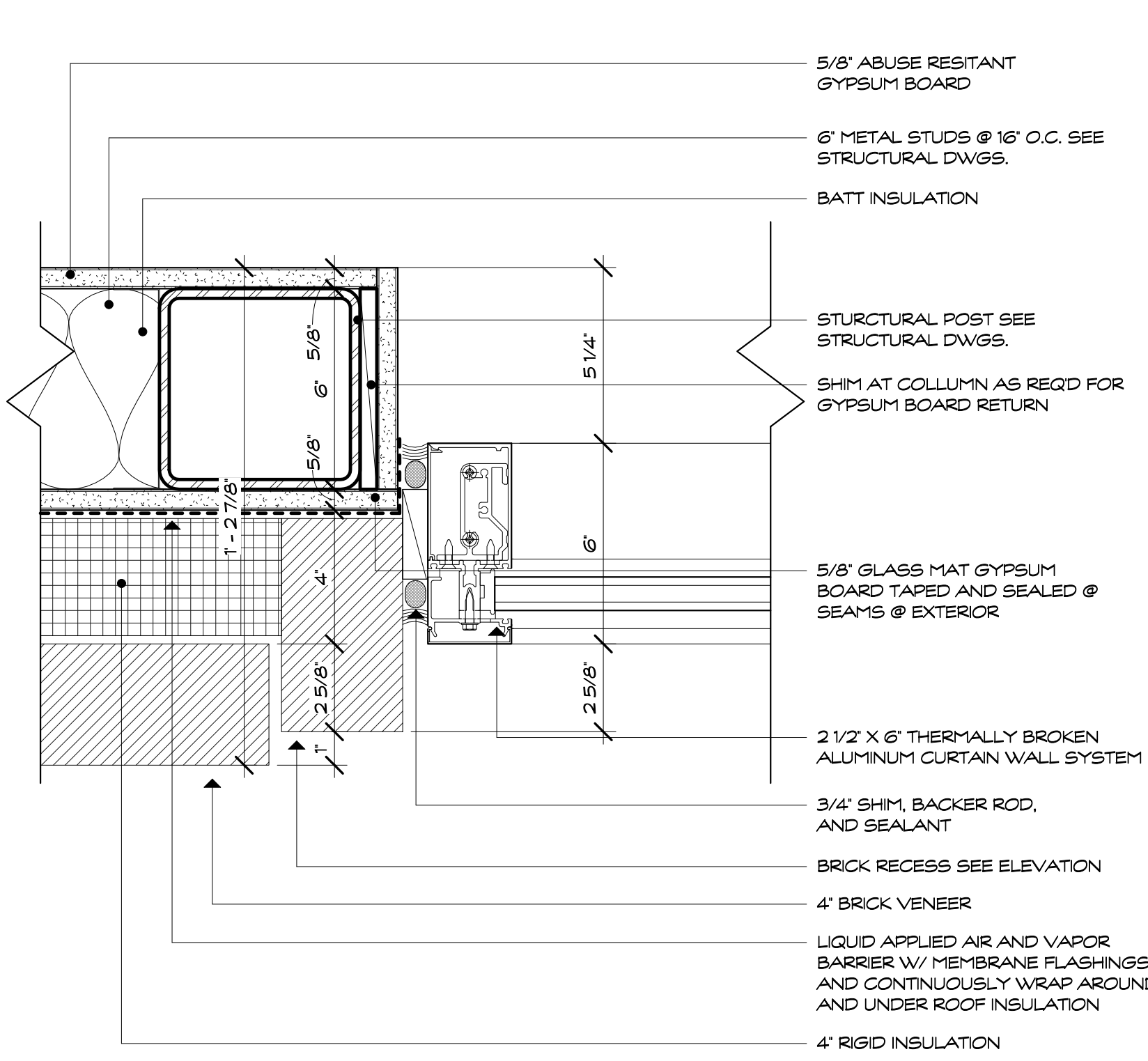
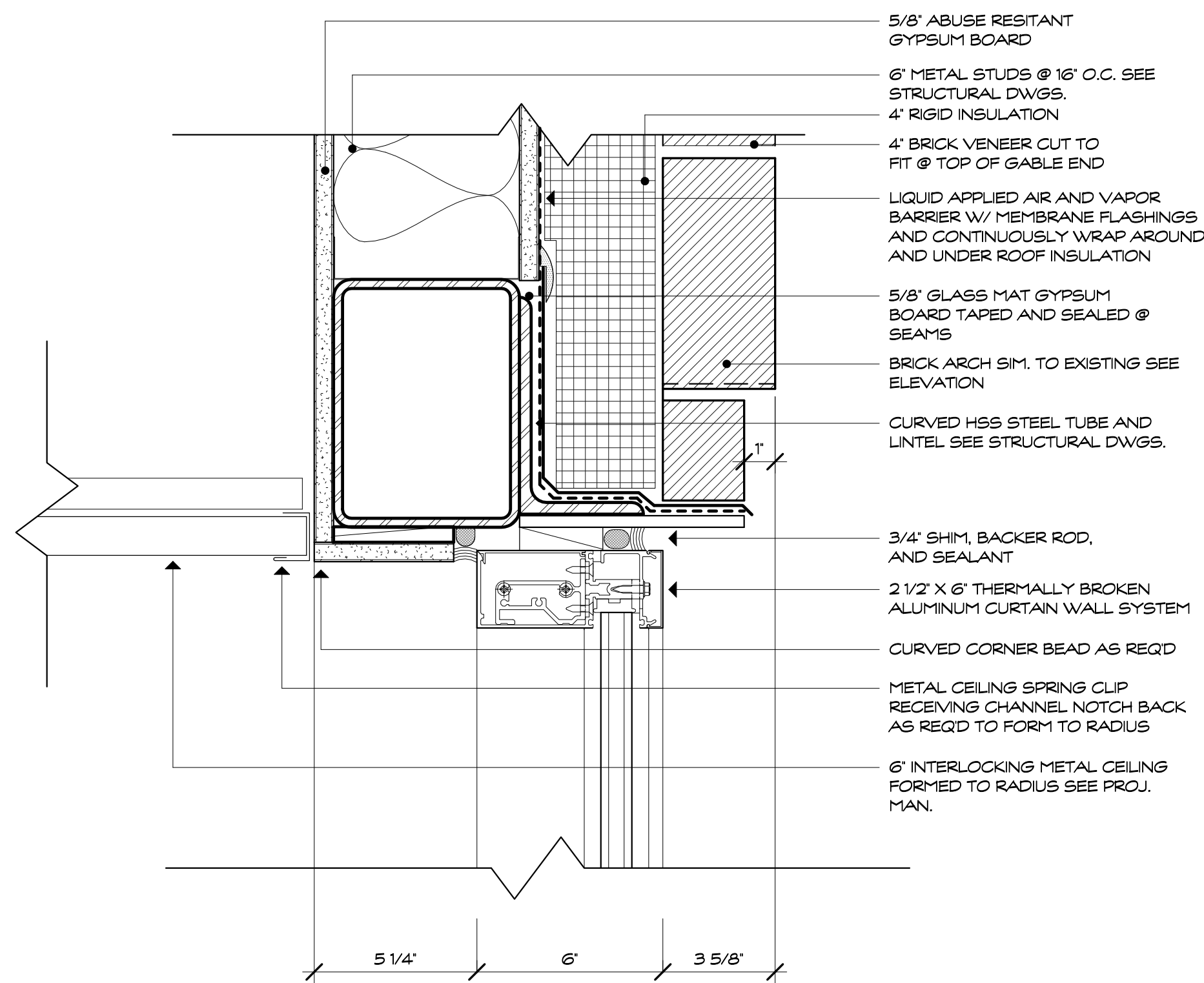
FRAMELESS GLASS DOOR BASE
SCALE: 3" = 1'-0"

FRAMELESS GLASS CLIP
SCALE: 3" = 1'-0"



FRAMELESS GLASS DOOR HEAD AND JAMB
SCALE: 3" = 1'-0"

FRAMELESS GLASS DOOR PIVOT
SCALE: 3" = 1'-0"



WINDOW HEAD DETAIL
SCALE: 3" = 1'-0"

WINDOW JAMB DETAIL
SCALE: 3" = 1'-0"

DOOR HEAD DETAIL
SCALE: 3" = 1'-0"

DOOR JAMB DETAIL
SCALE: 3" = 1'-0"

Project Title:
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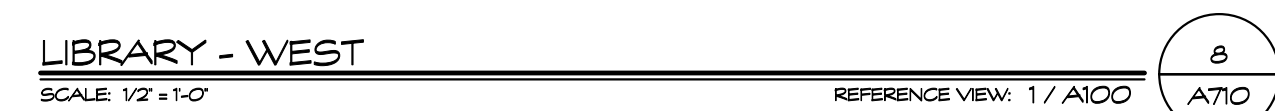
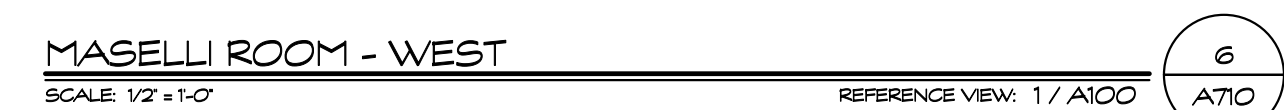
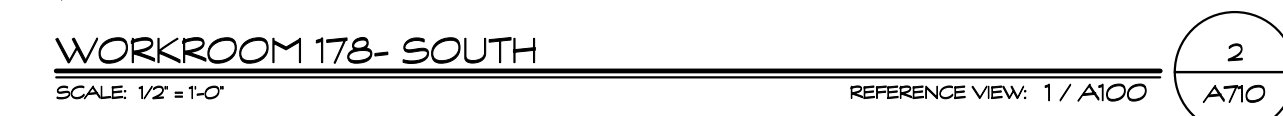
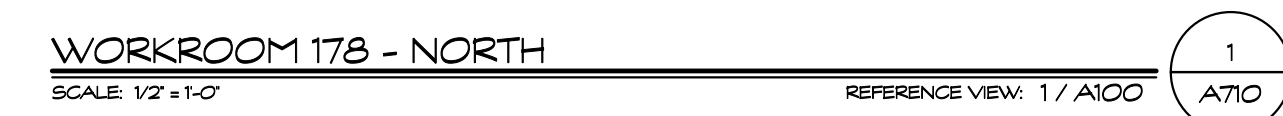
Revision:	Description:	Date:	Revised By:

Drawing Title:
WINDOW ELEVATIONS AND DETAILS

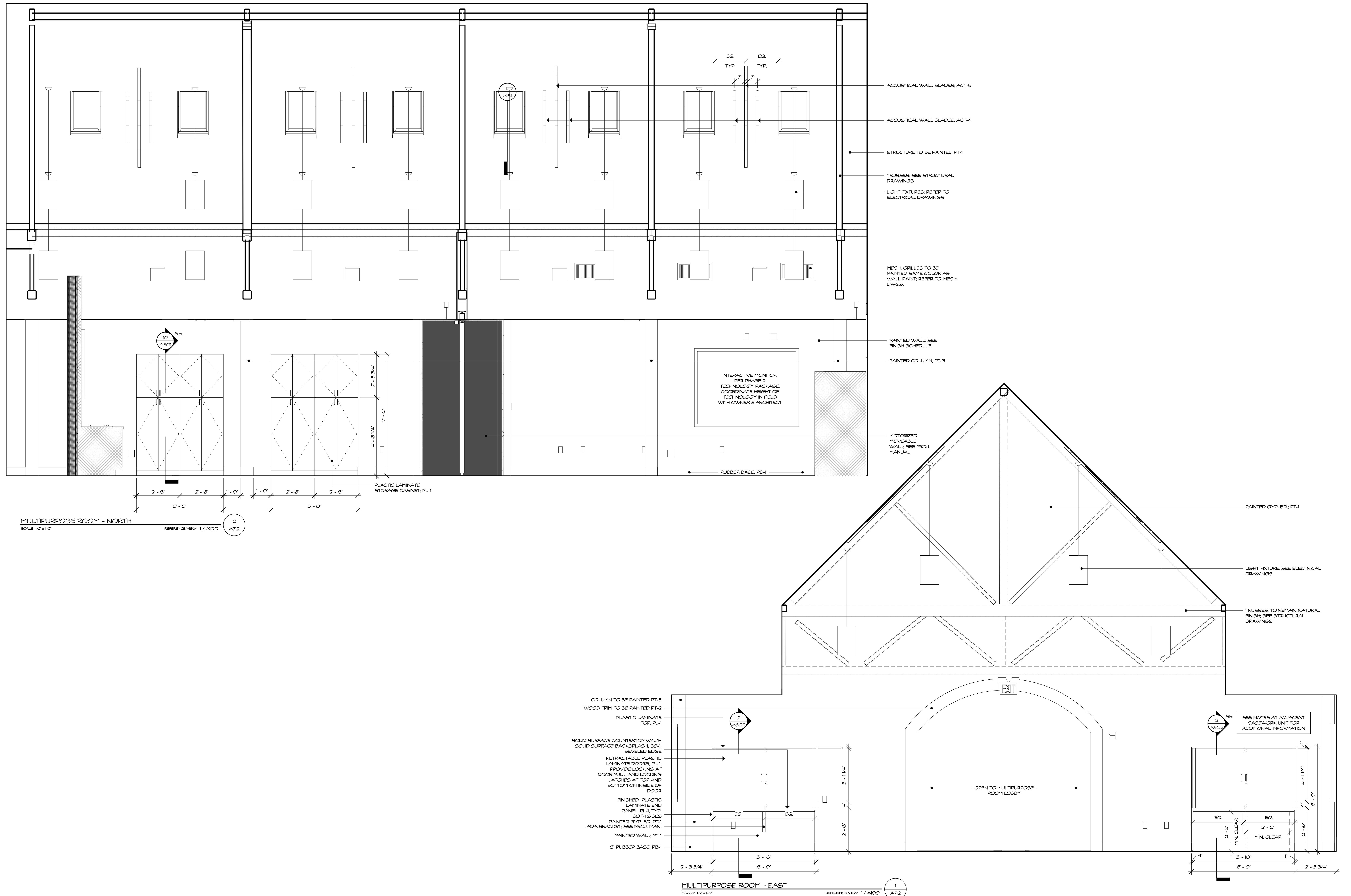
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JUL 17, 2018
Scale:
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Drawn By:
Author:
Project Number:
17.025

Drawing Number:

A600







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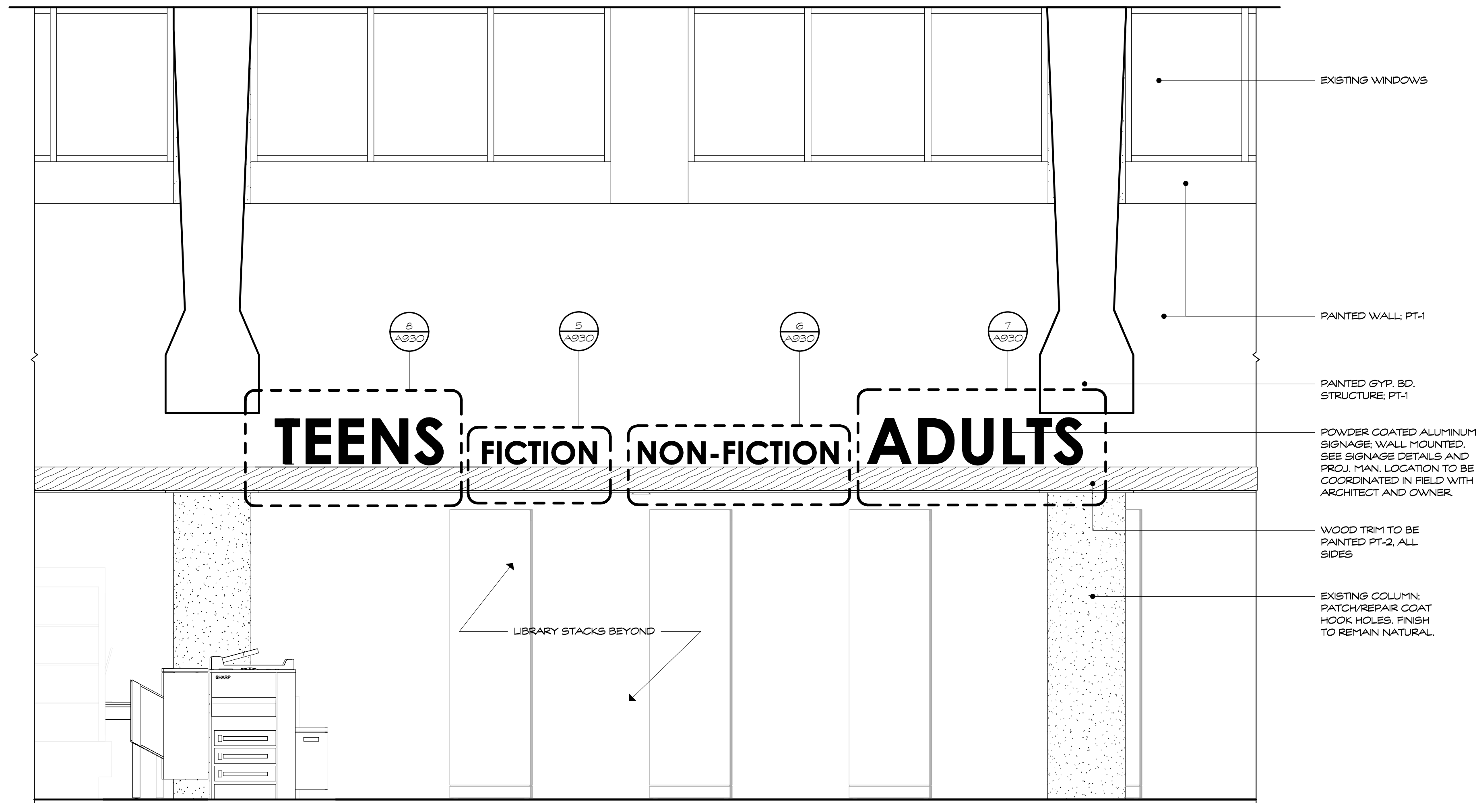
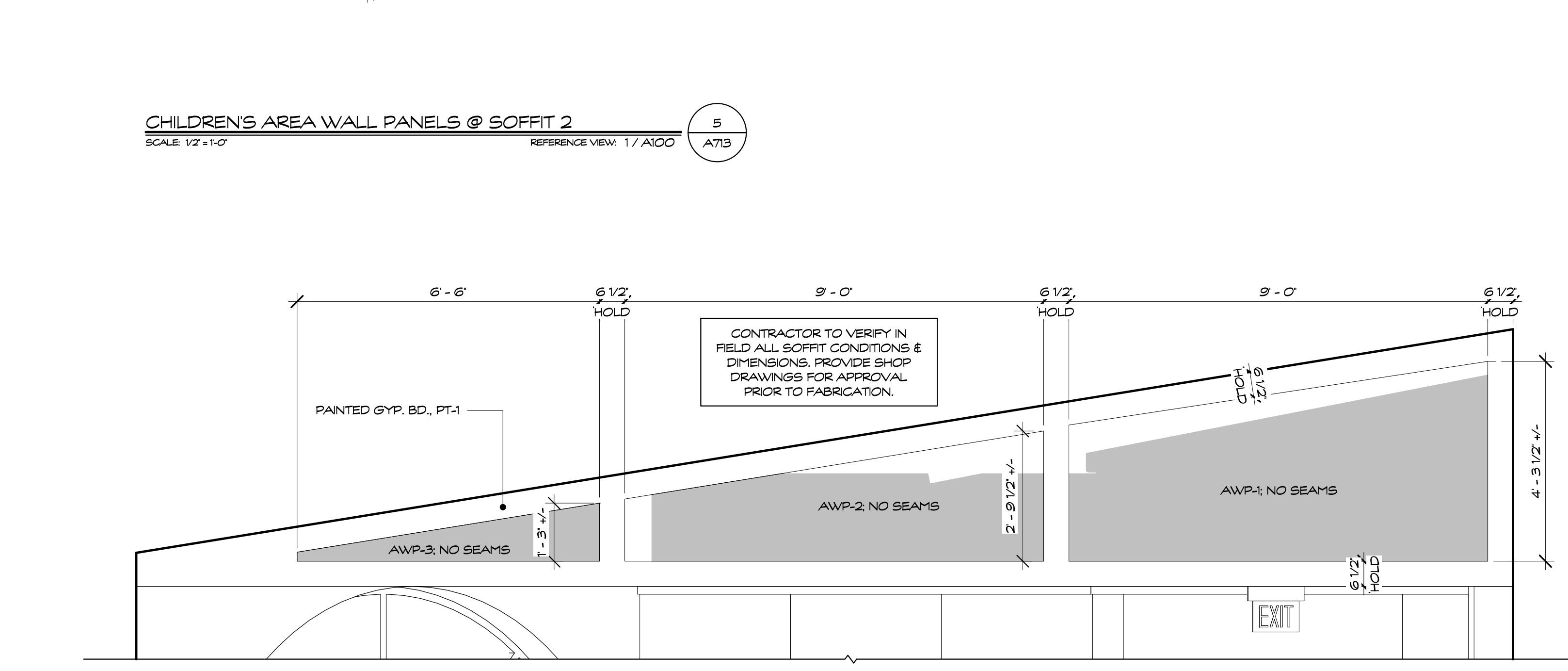
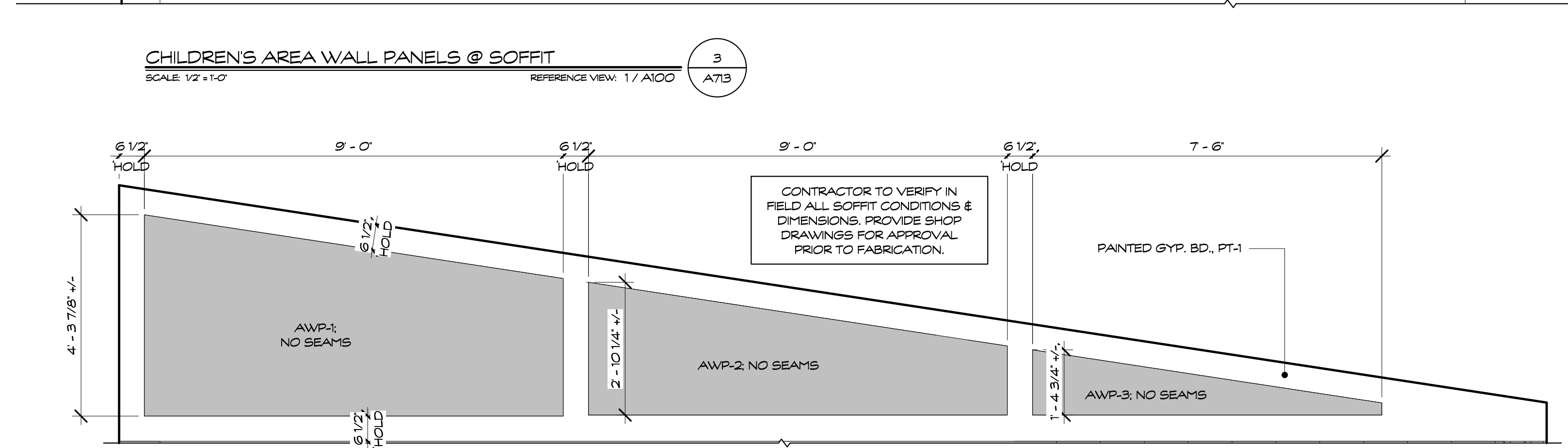
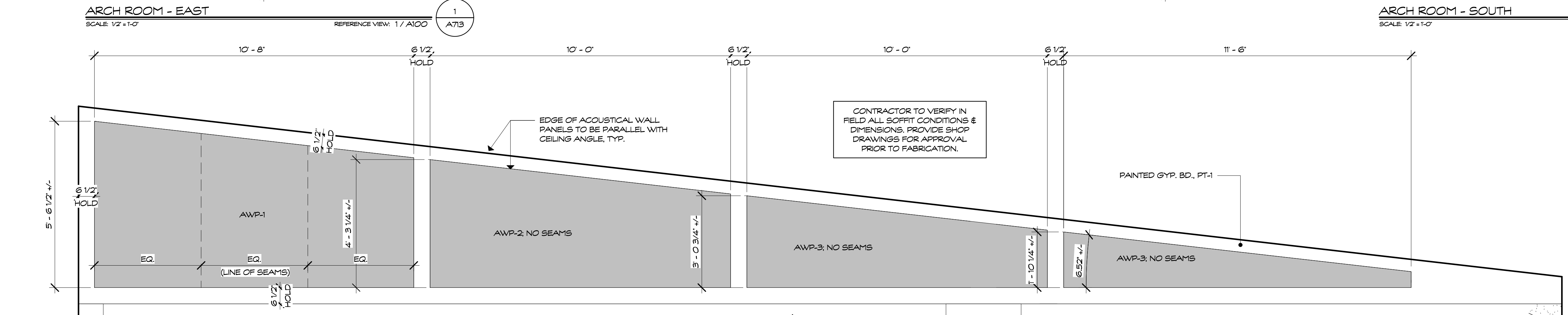
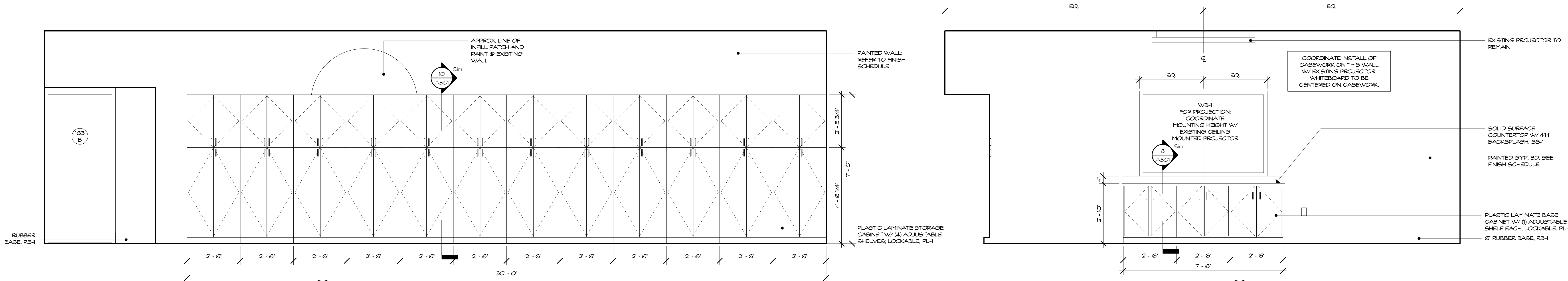


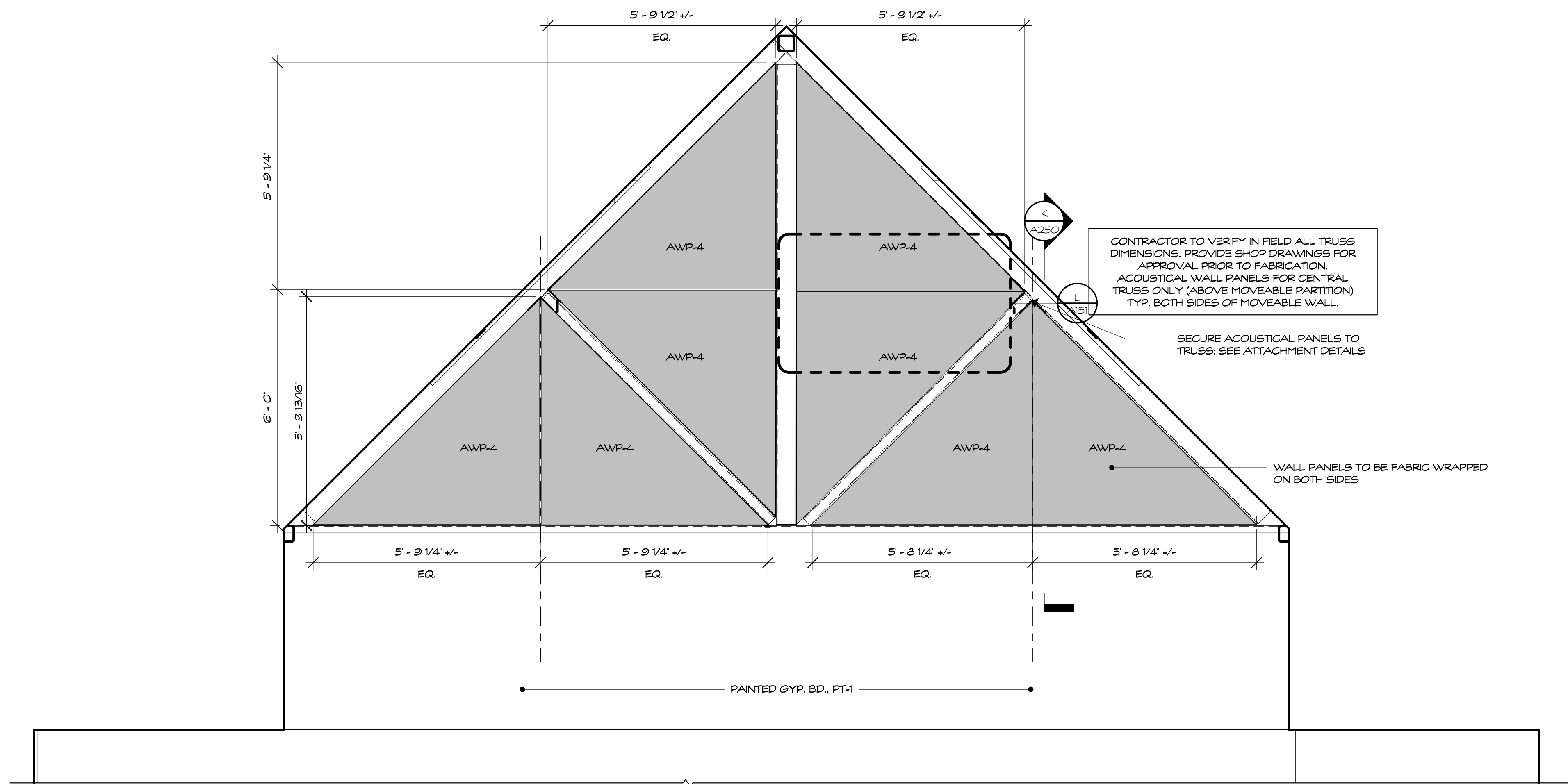
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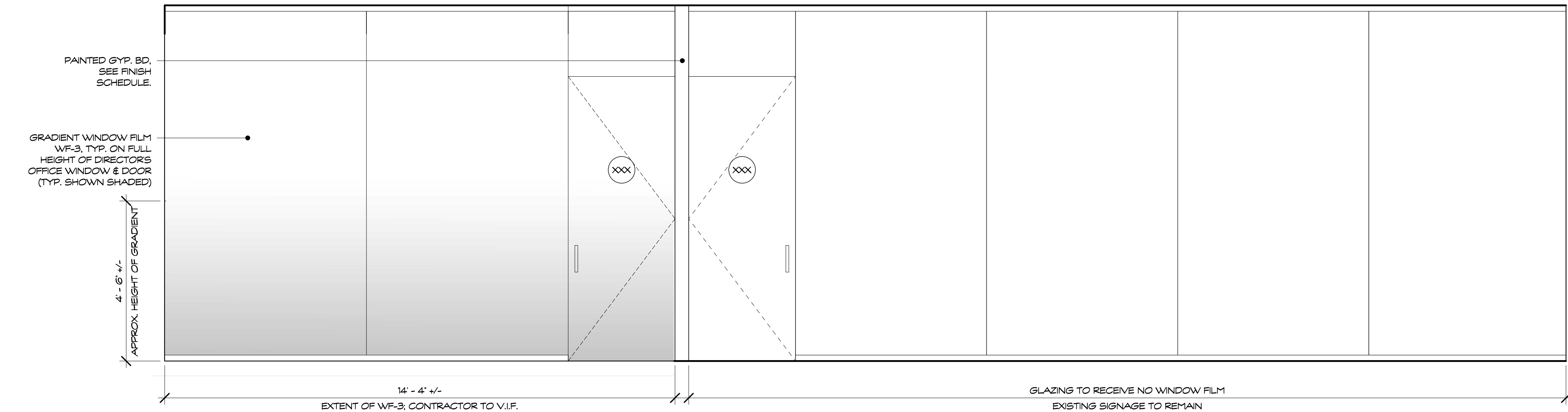
Drawing Title:
INTERIOR ELEVATIONS

Date:
JUL 17, 2018
Scale:
1/2" = 1'-0"
Drawn By:
JET
Project Number:
17.025
Drawing Number:
A712





ACOUSTICAL WALL PANELS
SCALE: 1/2"=1'-0"
REFERENCE VIEW: 1 / A100
1
A714



LIBRARY - SOUTH
SCALE: 1/2"=1'-0"
REFERENCE VIEW: 1 / A100
2
A714

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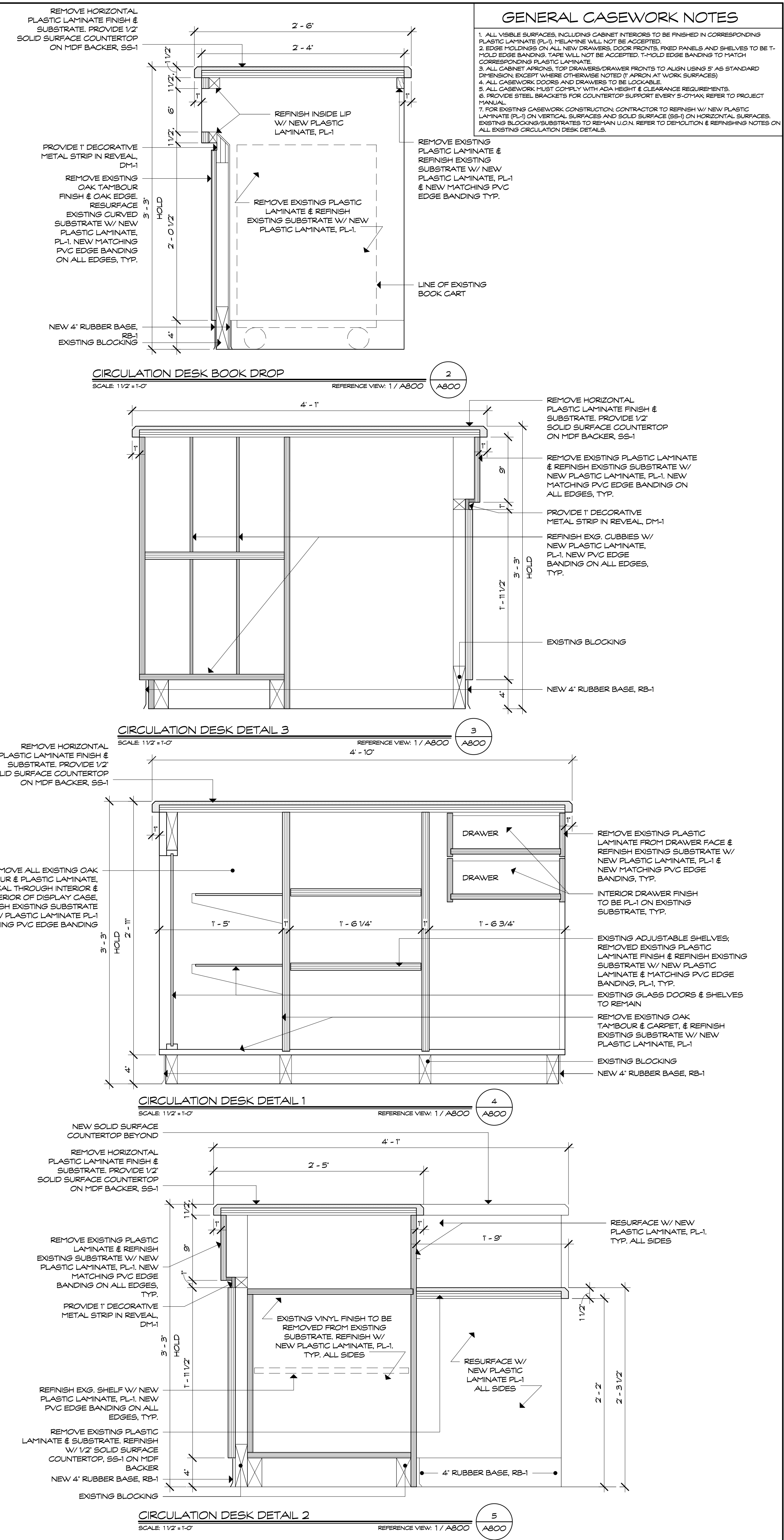
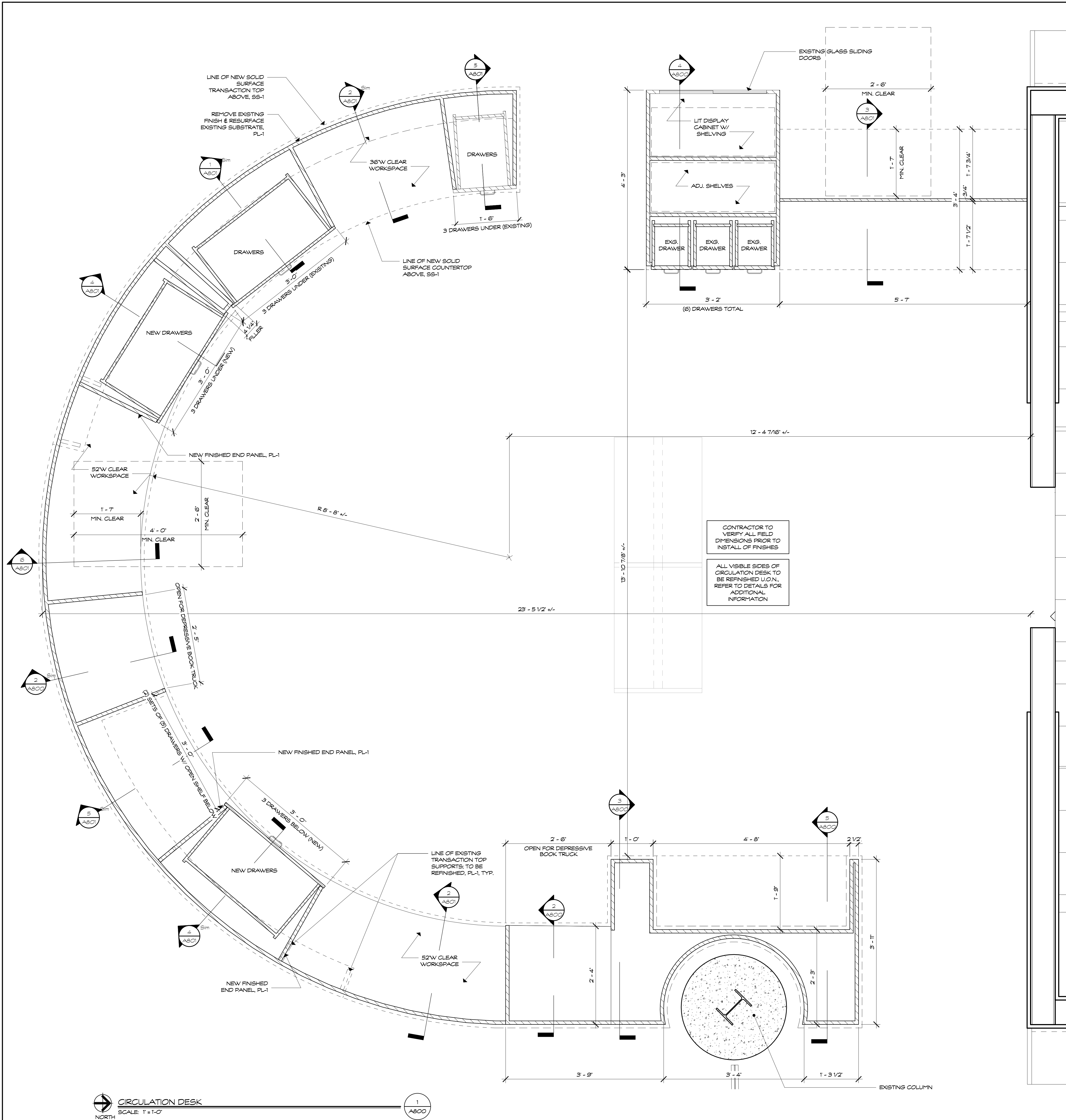
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Drawing Title:
INTERIOR ELEVATIONS

Date:
JUL 17, 2018
Scale:
1/2" = 1'-0"
Drawn By:
JET
Project Number:
17.025

Drawing Number:
A714



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Drawing Title:
CASEWORK DETAILS

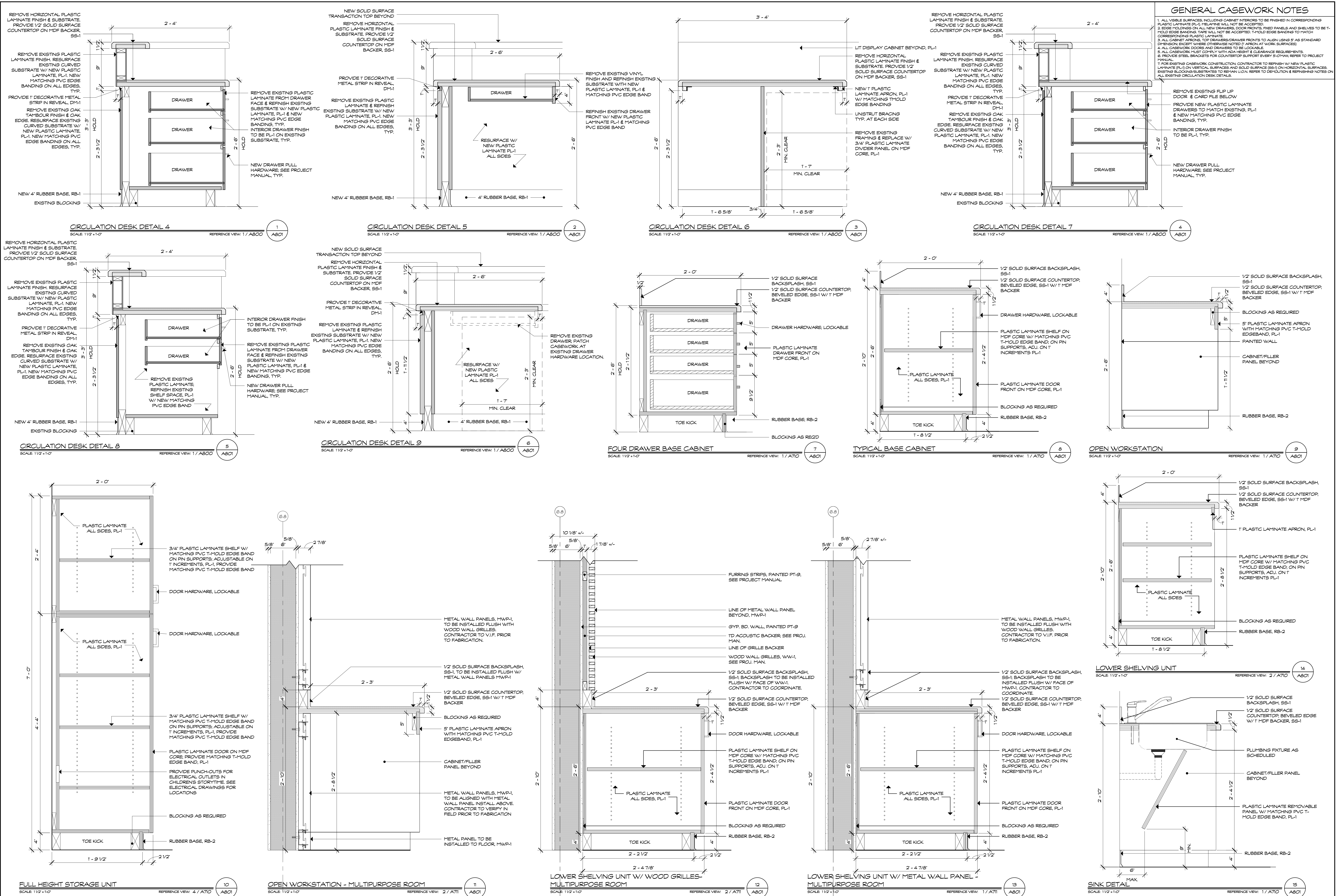
Date:
 JUL 17, 2018

Scale:
 As Indicated

Drawn By:
 JET

Project Number:
 17.025

Drawing Number:
A800



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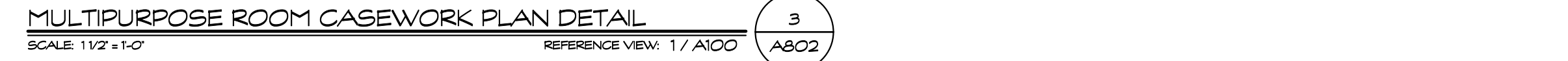
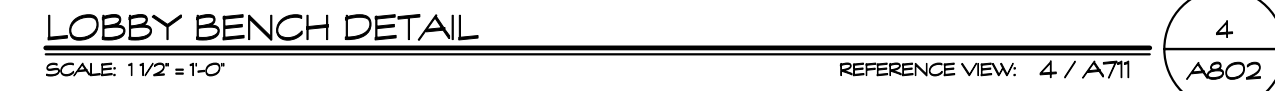
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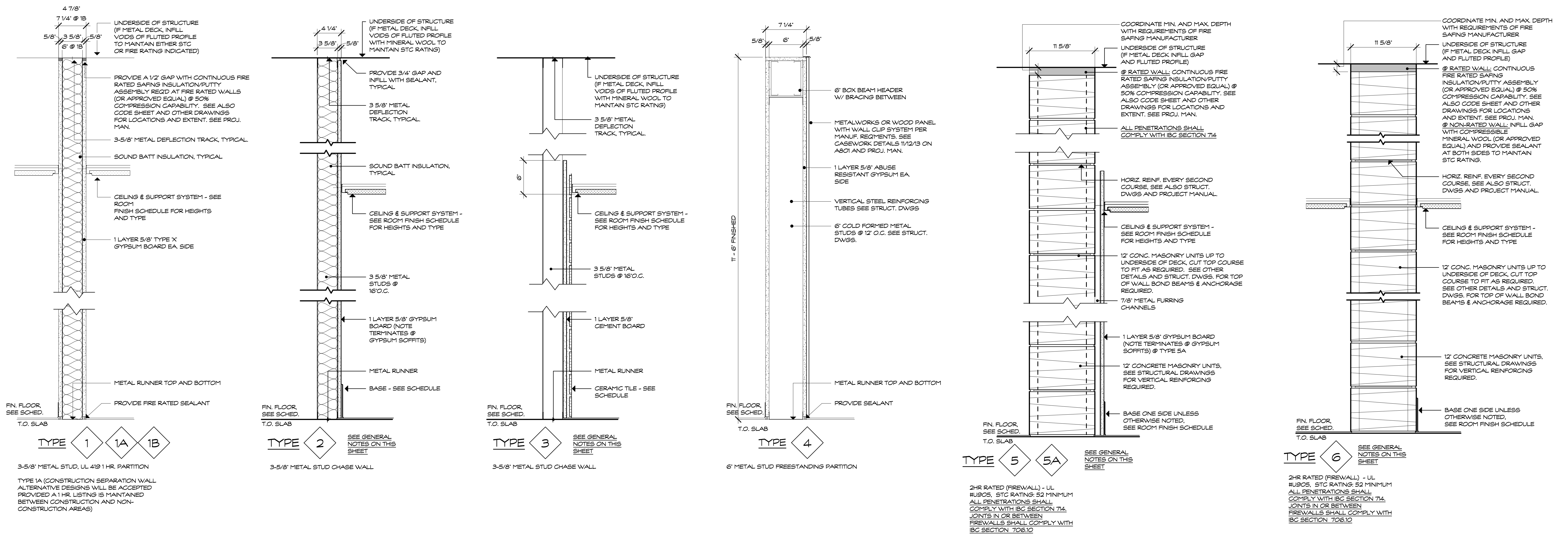
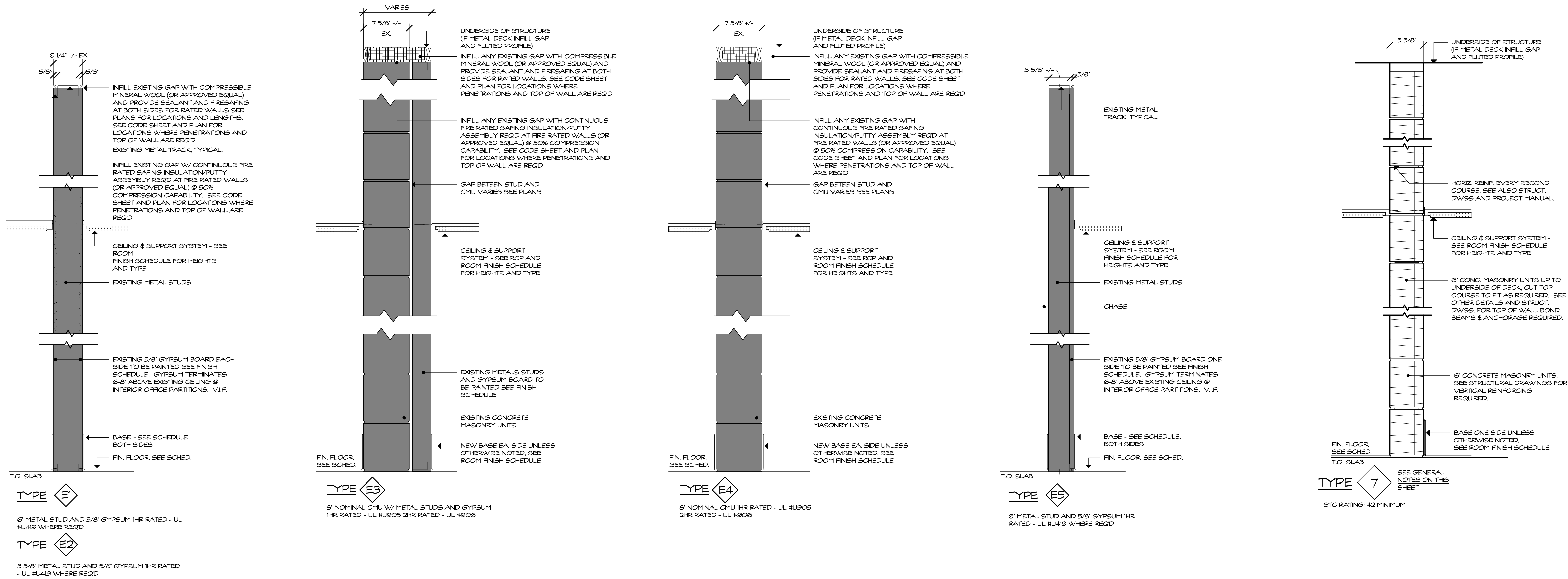
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CASEWORK DETAILS

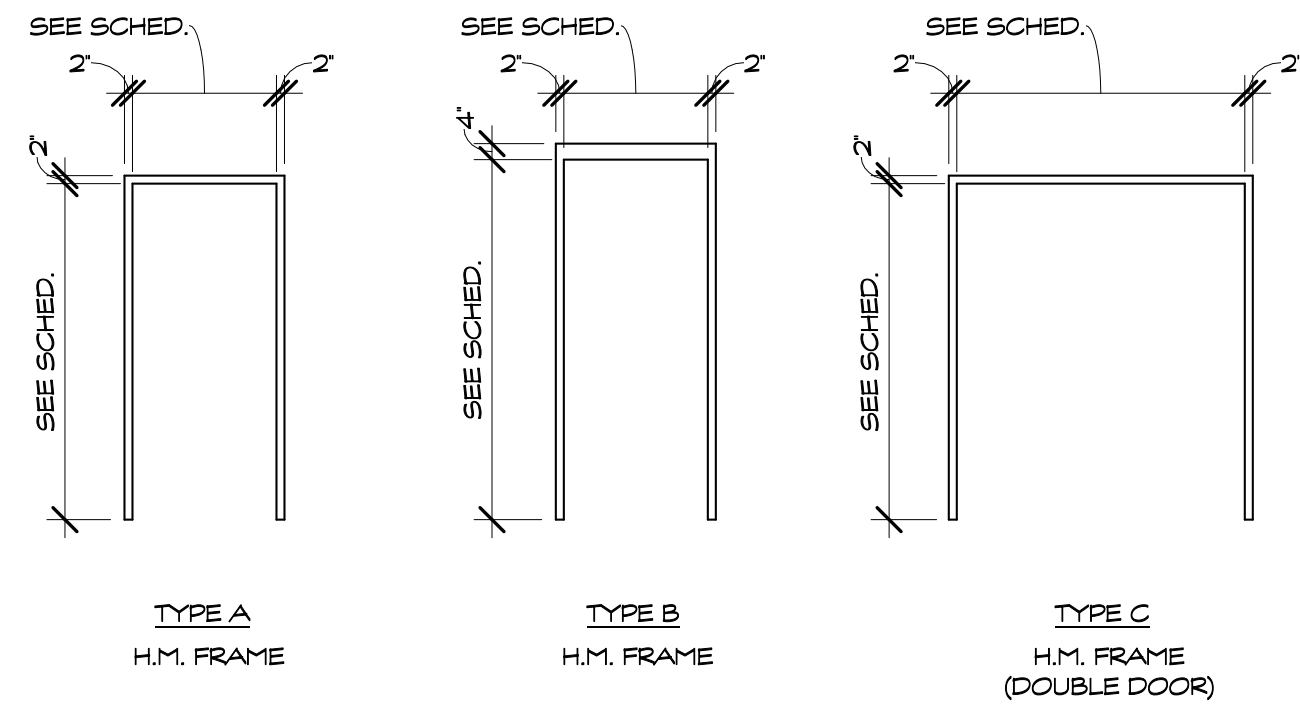
Date:
JUL 17, 2018
Scale:
As Indicated
Drawn By:
JET
Project Number:
17.025
Drawing Number:

A801

1. ALL VISIBLE SURFACES, INCLUDING CABINET INTERIORS TO BE FINISHED IN CORRESPONDING PLASTIC LAMINATE (PL-1). MELTAMINE WILL NOT BE ACCEPTED.
2. EXPOSED EDGES OF ALL CABINETS, DRAWERS, DOOR PANELS AND SHELVES TO BE FINISHED WITH T-MOLD EDGE BANDING. TAPE WILL NOT BE ACCEPTED. T-MOLD EDGE BANDING TO MATCH LAMINATE PLASTIC LAMINATE.
3. ALL CABINET ARROWS, TOP DRAWERS/DRAWER FRONTS TO ALIGN USING 5/8" AS STANDARD DIMENSION, EXCEPT WHERE OTHERWISE NOTED (APRON AT WORK SURFACES).
4. ALL CABINET DOORS AND DRAWER FRONTS TO BE EASY TO OPEN AND CLOSE.
5. ALL CASEWORK MUST COMPLY WITH ADA HEIGHT & CLEARANCE REQUIREMENTS.
6. PROVIDE STEEL BRACKETS FOR COUNTERTOP SUPPORT EVERY 5'-0" MAX. REQUIRE TO PROJECT 1/2" MIN.
7. FOR EXISTING CASEWORK CONSTRUCTION, CONTRACTOR TO REFINISH W/ NEW PLASTIC LAMINATE (PL-1) ON VERTICAL, SURFACES AND SOLID SURFACE (SS-1) ON HORIZONTAL SURFACES. CONTRACTOR TO SUBMIT MATERIALS AND/ OR REPAIR TO DEMOLITION & REFINISHING NOTIFICATION. ALL EXISTING ORIGINATING DESK DETAILS.





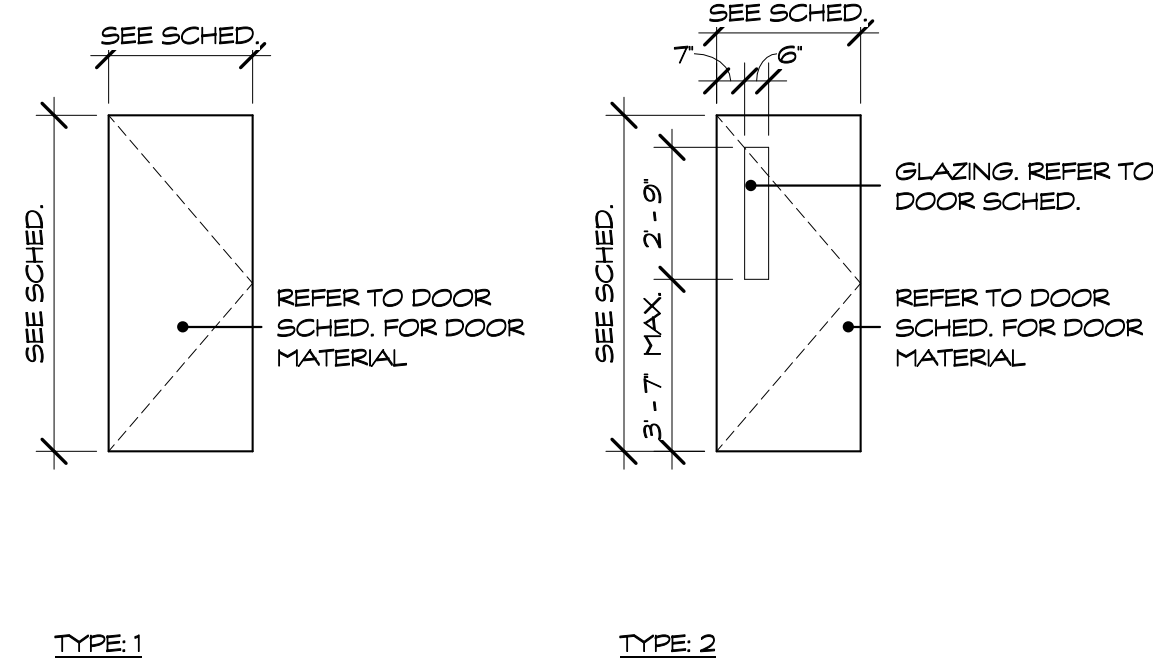


FRAME ELEVATIONS

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

REFERENCE VIEW

1
A910

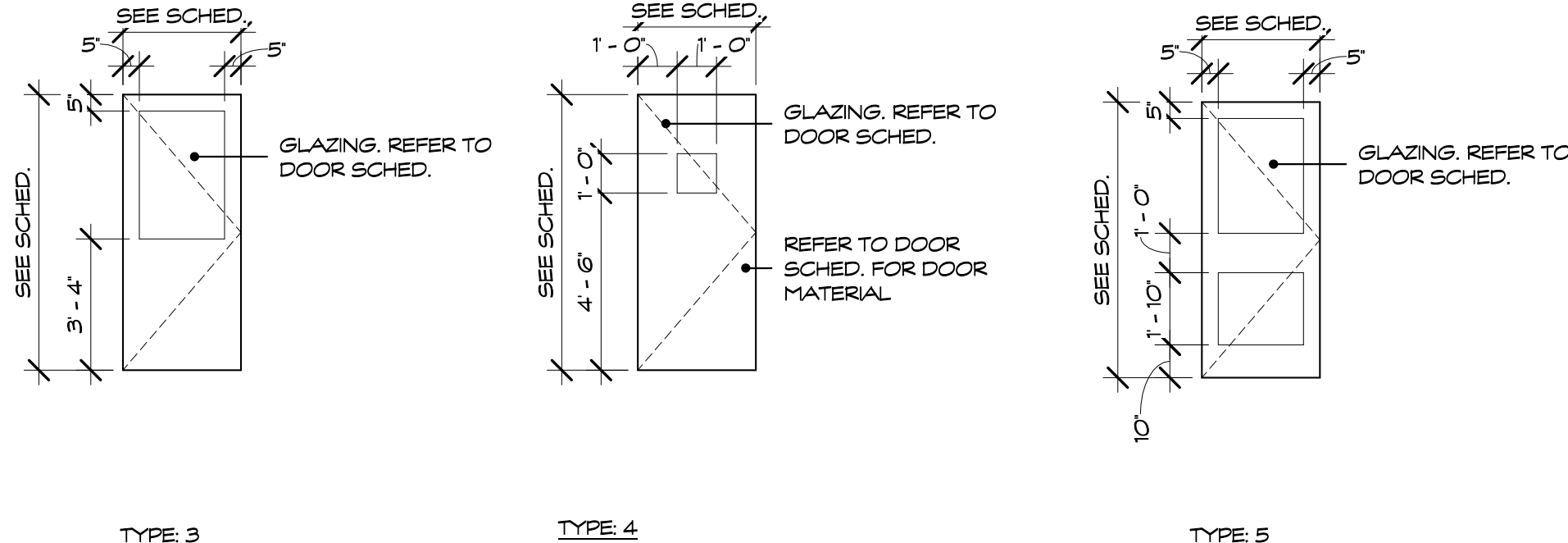


DOOR ELEVATIONS

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

REFERENCE VIEW

2
A910



DOOR SCHEDULE - MAIN LEVEL

DOOR											FRAME					FIRE RATING		HARDWARE - SEE SPECIFICATIONS																						
DOOR NUMBER	FROM ROOM No.	TO ROOM No.	DOUBLE LEAF DOOR	UNEVEN DOUBLE LEAF	WIDTH	HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR GLAZING	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	HEAD DETAIL	JAMB DETAIL	SADDLE DETAIL SEE A910	FRAME GLAZING	RESISTS PASSAGE OF SMOKE	90 MINUTE LABELED	180 MINUTE LABELED	NOT REQUIRED	PULL OR PUSH	FIRE CODE				DISABLED REQUIREMENTS							REMARKS						
																							POSITIVE LATCHING	ELECTRO-MAGNETIC HOLD	DELAYED ACTION CLOSER	PUSH PLATE/PULL HANDLES	ALARMED EXIT - SEE ELEC.	POWER ASSIST OPERATOR	LEVER HANDLES	KICK PLATE	TACTILE WARNING	ACCESSIBLE THRESHOLD	SIGNATURE TYPE - SEE A910		SIGNAGE TEXT					
106A	106		•		6'-0"	7'-0"	1	HM	PT	-	G	HM	PT	HM-1.3	HM-1.3	IE	-		•	•	•	•	•	•	•	•	•	•	•	•	•	•	S8	EXIT						
163 B	199	195			3'-0"	7'-0"	4	WD	PT	GL-6	-	HM	PT	HM-1	HM-1			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	S1	ARCH ROOM	SM. SEE EXP. DTL.					
166 A	171	168			3'-0"	7'-0"	EX	EX-WD	EX	-	EX	EX-HM	PT	-	-																		O	EX						
169 A	171	169			3'-0"	7'-0"	EX	EX-WD	EX	-	EX	EX-HM	PT	-	-																			O	EX					
170 A	170	171			3'-0"	7'-0"	EX	EX-WD	EX	-	EX	EX-HM	PT	-	-																				O	EX				
171 B	171	164	•		6'-0"	7'-2"	EX	EX-WD	EX	-	EX	EX-HM	PT	-	-																				O	EX				
172 A	179	172			3'-0"	7'-0"	EX	EX-WD	EX	-	EX	EX-HM	PT	-	-																					O	EX			
173 A	180	173	•		6'-0"	7'-0"	1	GLASS	-	GL-2.2	-	-	-	-	-																					SEE A600				
173 B	173	171			3'-0"	7'-0"	1	GLASS	-	GL-2.2	-	-	-	-	-																					SEE A600				
173 G	184	182			3'-0"	7'-0"	1	HM	PT	-	A	HM	PT	HM-1.6	HM-1.6																					S1	WT			
174 A	173	174			3'-0"	7'-0"	EX	EX-WD	-	-	EX	EX-HM	PT	-	-																					O	EX			
175 B	180	175			3'-0"	7'-0"	1	WD	STAIN	-	A	HM	PT	HM-1.2	HM-1.2																						S5	UNSEX TOILET		
176 A	178	176			3'-0"	7'-0"	4	WD	STAIN	GL-2.1	A	HM	PT	HM-1.2	HM-1.2																							S1	OFFICE	
176 B	180	176			3'-0"	7'-10"	EX	EX-WD	EX	-	EX	EX-HM	PT	-	-																						O	EX		
177 A	178	177			3'-0"	7'-0"	4	WD	STAIN	GL-2.1	A	HM	PT	HM-1.2	HM-1.2																							S1	OFFICE	
178 A	181	178			3'-0"	7'-10"	EX	EX-WD	EX	-	EX	EX-HM	PT	-	-																						O	EX		
178 B	178	180			3'-0"	7'-10"	3	WD	STAIN	GL-2.1	A	HM	PT	HM-1.2	HM-1.2																							S1	OFFICE	
178 C	178	184			3'-0"	7'-10"	3	WD	STAIN	GL-2.1	A	HM	PT	HM-1.2	HM-1.2																							S1	OFFICE	
179 A	171	179			6'-0"	7'-2"	1	EX-WD	EX	-	EX	EX-HM	PT	-	-																						O	EX		
180 A	180	184	•		6'-0"	7'-0"	1	GLASS	-	GL-2.2	-	-	-	-	-																							SEE A600		
187 A	187	184			3'-0"	7'-0"	1	GLASS	-	GL-2.2	-	-	-	-	-																							SEE A600		
188 A	184	188			3'-0"	7'-0"	1	GLASS	-	GL-2.2	-	-	-	-	-																							SEE A600		
190 A	190	190	•		6'-0"	7'-0"	5	AL	-	-	-	AL	-	-	-																						SEE A600			
190 B	190	190	•		6'-0"	7'-0"	5	AL	-	-	-	AL	-	-	-																						SEE A600			
191 A	191	191	•		6'-0"	7'-0"	5	AL	-	-	-	AL	-	-	-																						SEE A600			
192 A	191	192			3'-0"	7'-0"	1	WD	STAIN	-	A	HM	PT	HM-1.2	HM-1.2																							S8	EXIT	
193 A	191	193			3'-0"	7'-0"	1	WD	STAIN	-	A	HM	PT	HM-1.2	HM-1.2																							S2	WOMEN	
194 A	195	180			3'-0"	7'-0"	4	WD	STAIN	GL-6	A	HM	PT	HM-1.6	HM-1.6			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	S8	MEN			
195 A	195	180			3'-0"	7'-0"	4	WD	STAIN	GL-6	A	HM	PT	HM-1.6	HM-1.6			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	S8	EXT./MULTIPURPOSE	SIGN BOTH SIDES		
195 B	195	195A	•		6'-0"	7'-0"	1	WD	STAIN	-	A	HM	PT	HM-1.2	HM-1.2																							S8	EXT./MULTIPURPOSE	SIGN BOTH SIDES
196 A	196	195			3'-0"	7'-0"	1	WD	STAIN	-	A	HM	PT	HM-1.2	HM-1.2																							S1	CLOSET	
197 A	195	197			3'-0"	7'-0"	1	WD	STAIN	-	A	HM	PT	HM-1.2	HM-1.2																							S1	STORAGE	
198 A	198	195			3'-0"	7'-0"	1	WD	STAIN	-	A	HM	PT	HM-1.2	HM-1.2																							S1	ELECTRICAL/AV	
199 A	199	195	•		6'-0"	7'-0"	1	WD	STAIN	-	A	HM	PT	HM-1.2	HM-1.2																							S1	ARCH ROOM	
228 A	171	228			3'-0"	7'-0"	EX	EX-WD	EX	-	EX	EX-HM	PT	-	-																						EX			

GENERAL DOOR NOTES

- CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS & DIMENSIONS.
- ALL NEW KICK PLATES SHALL BE 16" HIGH AND OFFSET 1" FROM EDGES OF DOOR UNLESS OTHERWISE NOTED. CENTERED AT BOTTOM OF DOOR.
- ALL GLASS IN DOORS, SIDELITES AND TRANSOMS SHALL BE TEMPERED UNLESS OTHERWISE NOTED. SEE SCHEDULE FOR SPECIFIC THICKNESS AND TYPE.
- ALL EXTERIOR DOORS SHALL RECEIVE CONTACTS FOR ALARM SYSTEM.
- PROVIDE DOGGING FUNCTION AT ALL PANIC BARS.
- ALL EXTERIOR DOUBLE DOORS TO RECEIVE KEYED REMOVABLE MULLIONS ADDITIONAL CYLINDERS REQD.

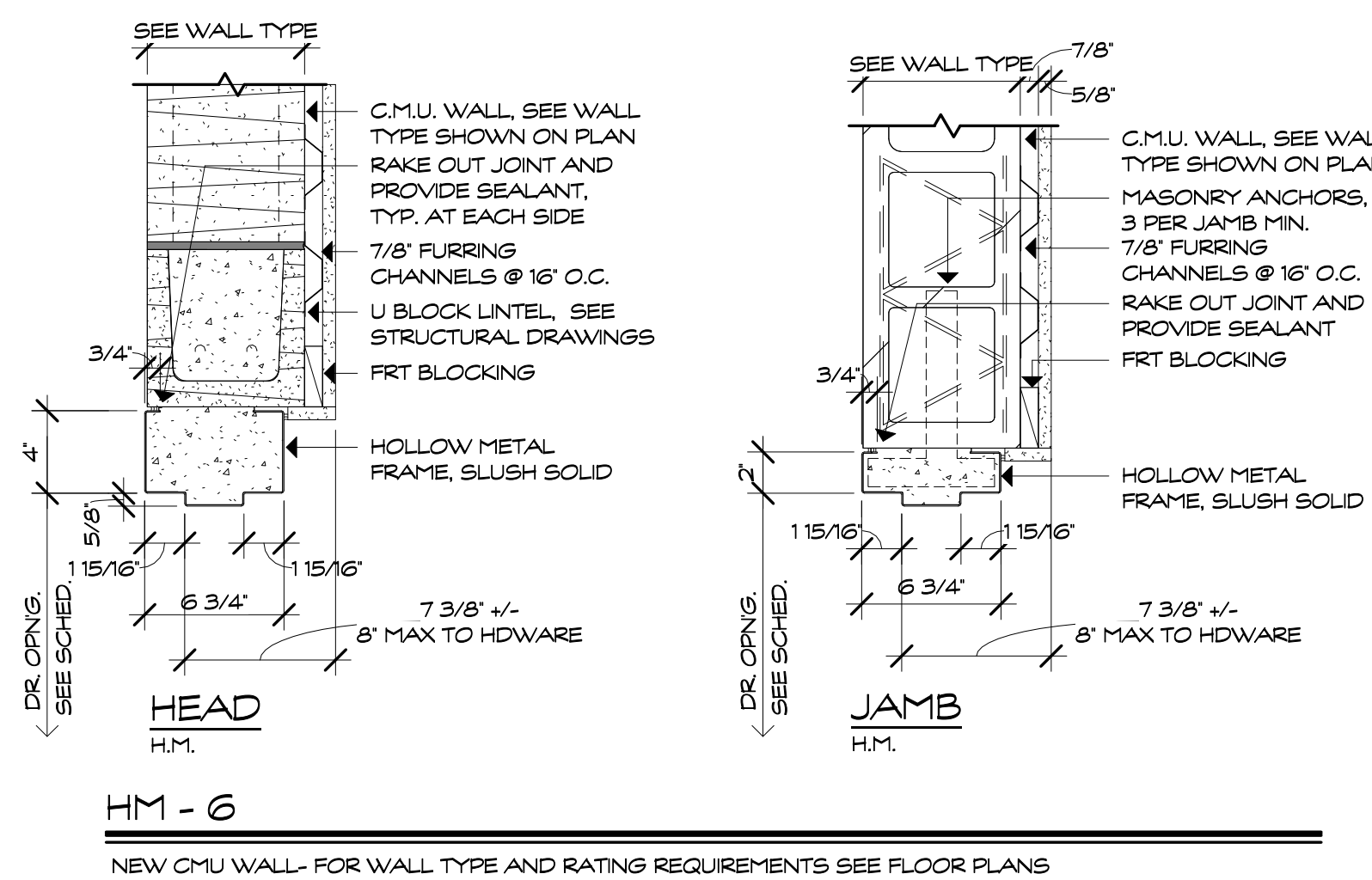
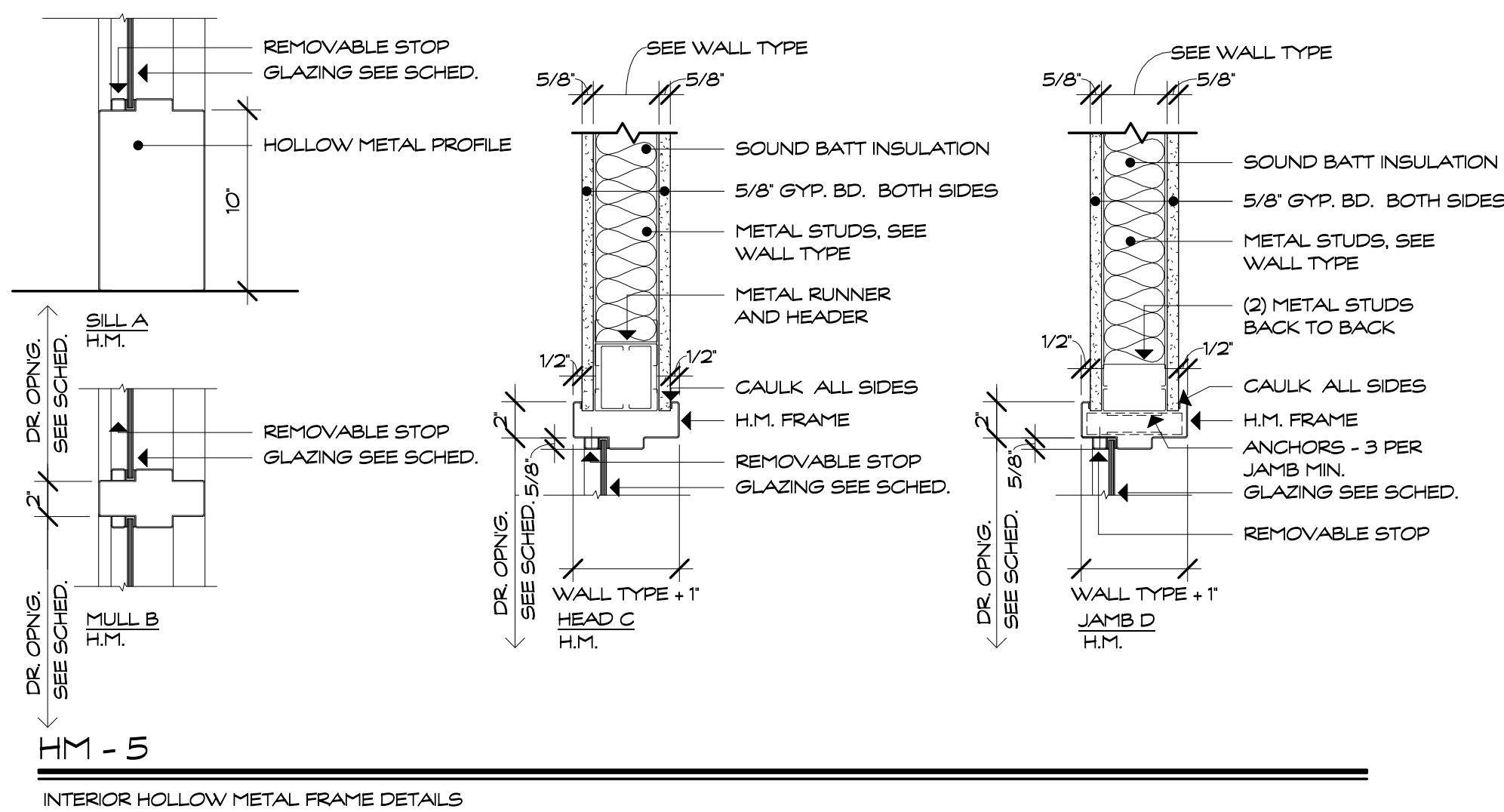
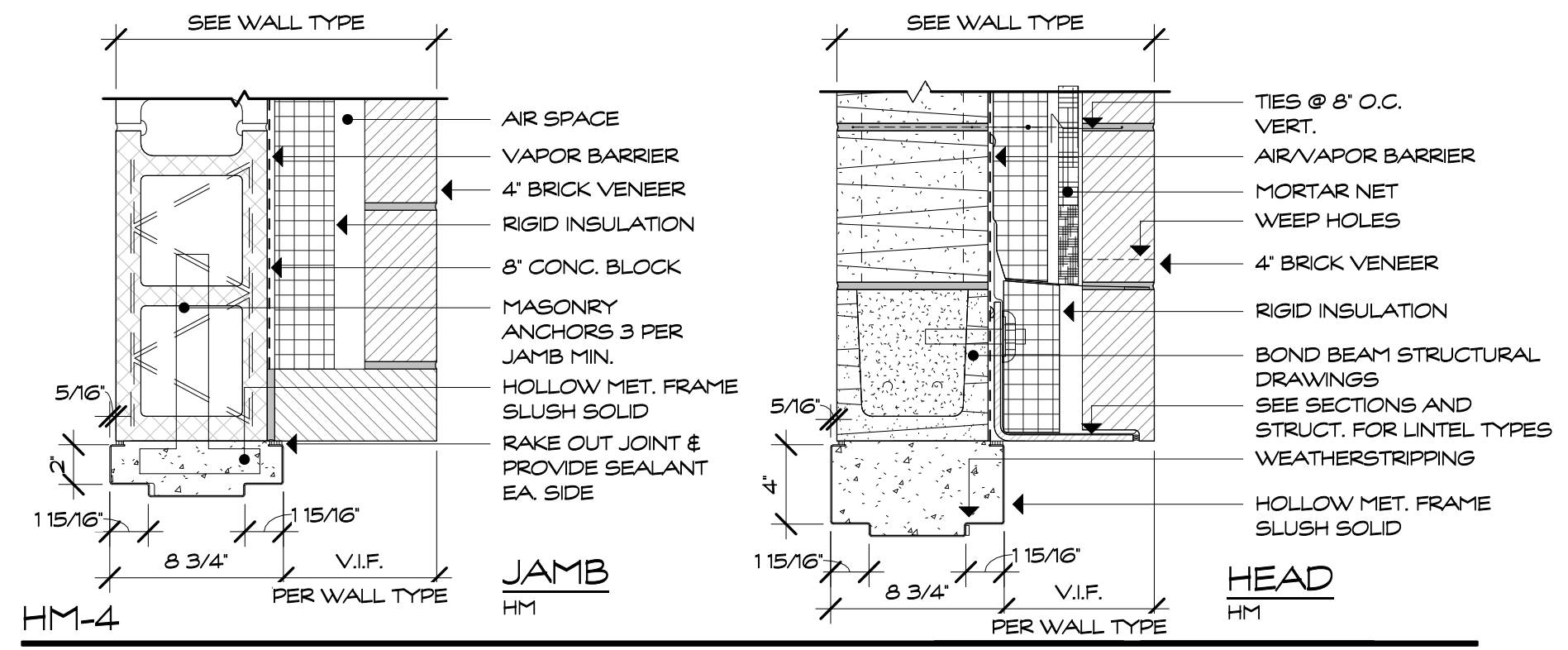
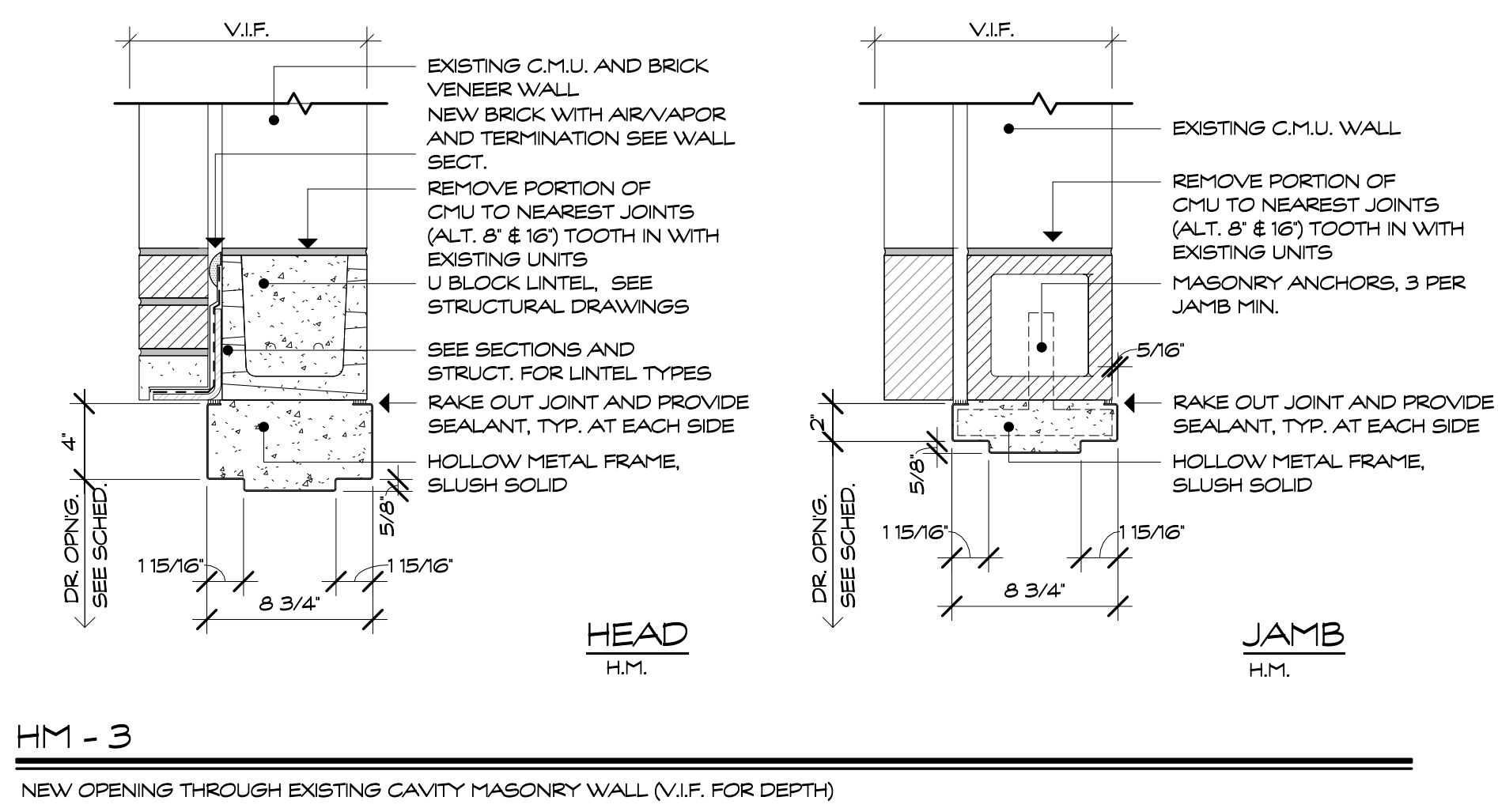
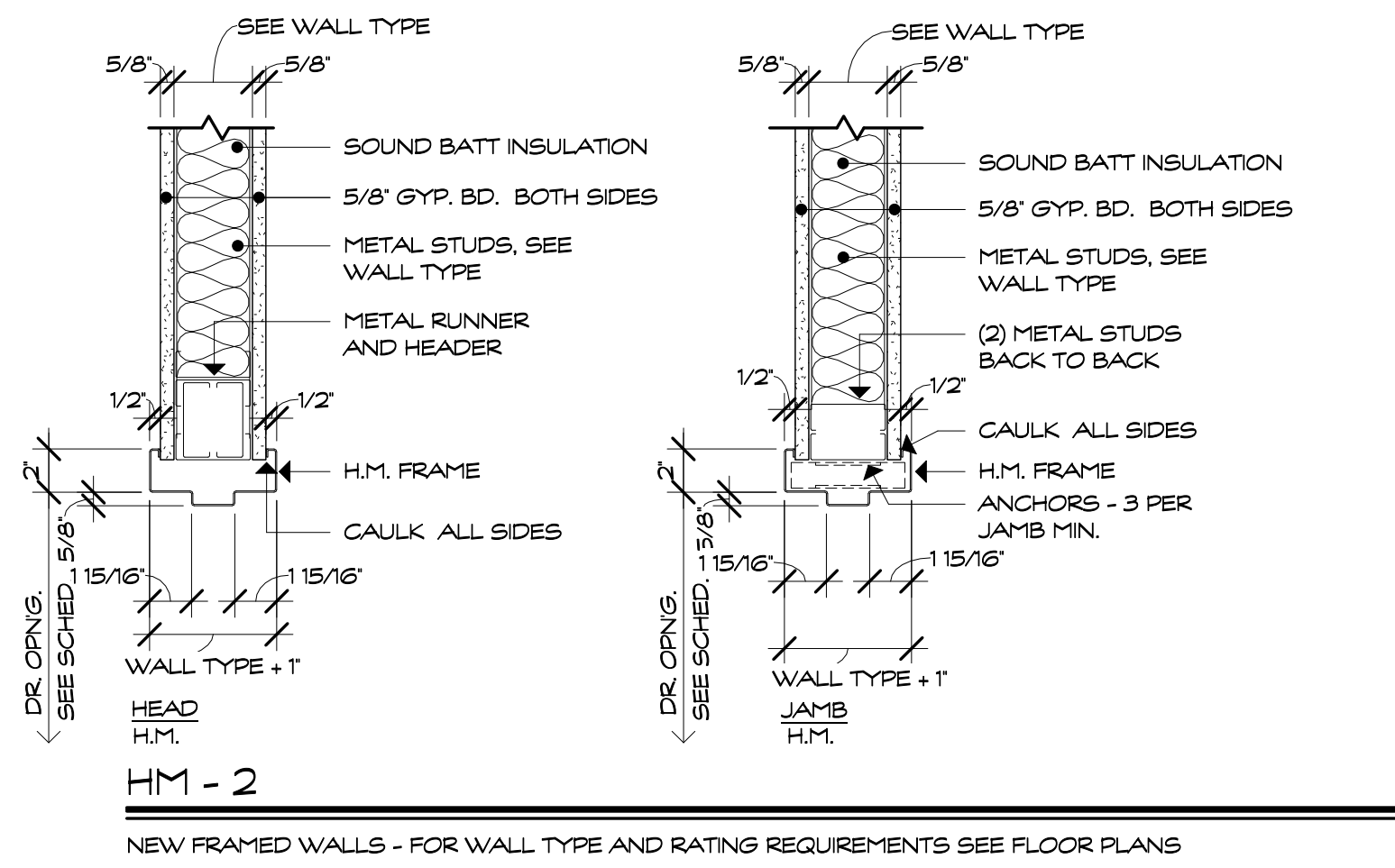
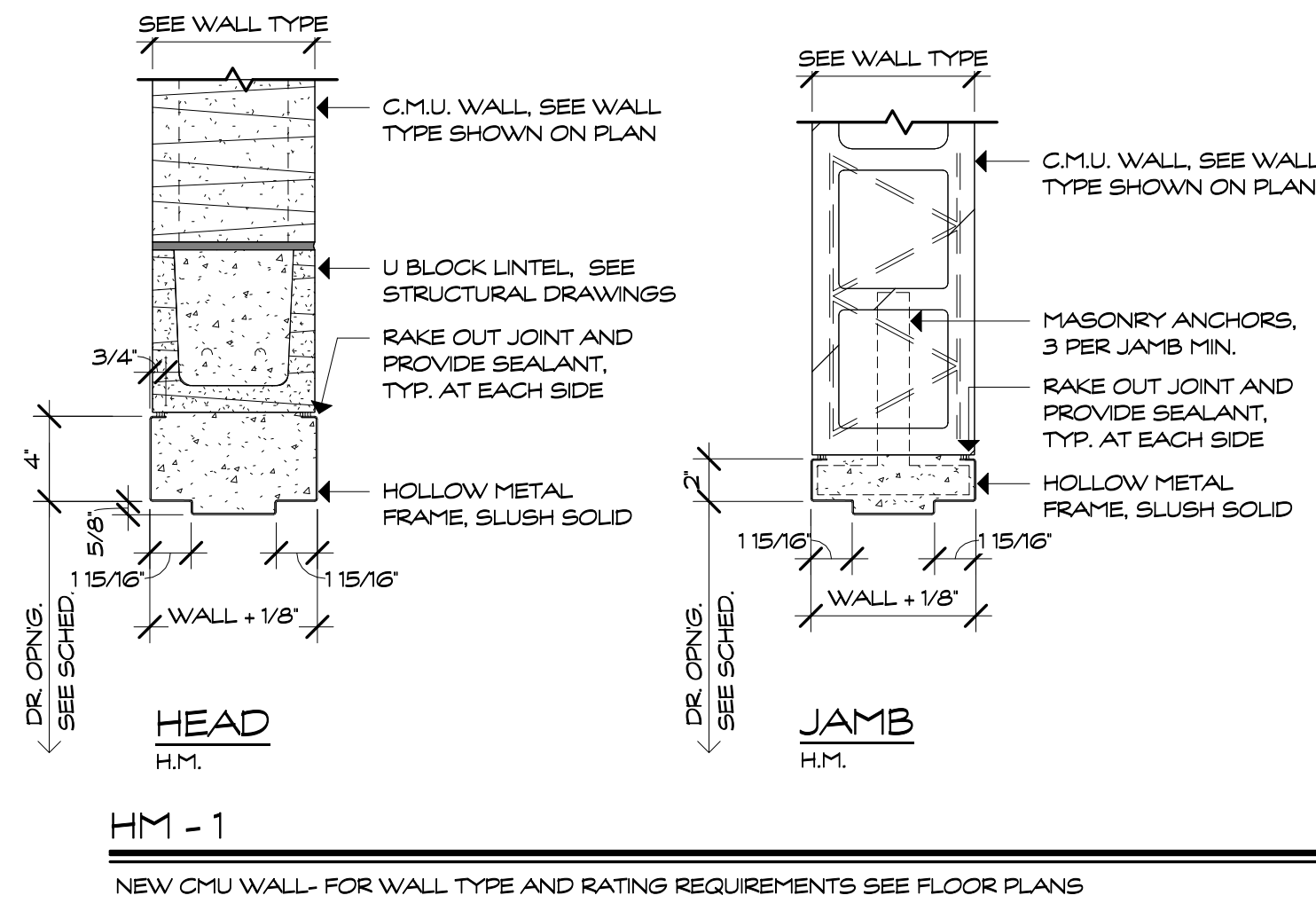
DOOR SCHEDULE REMARKS

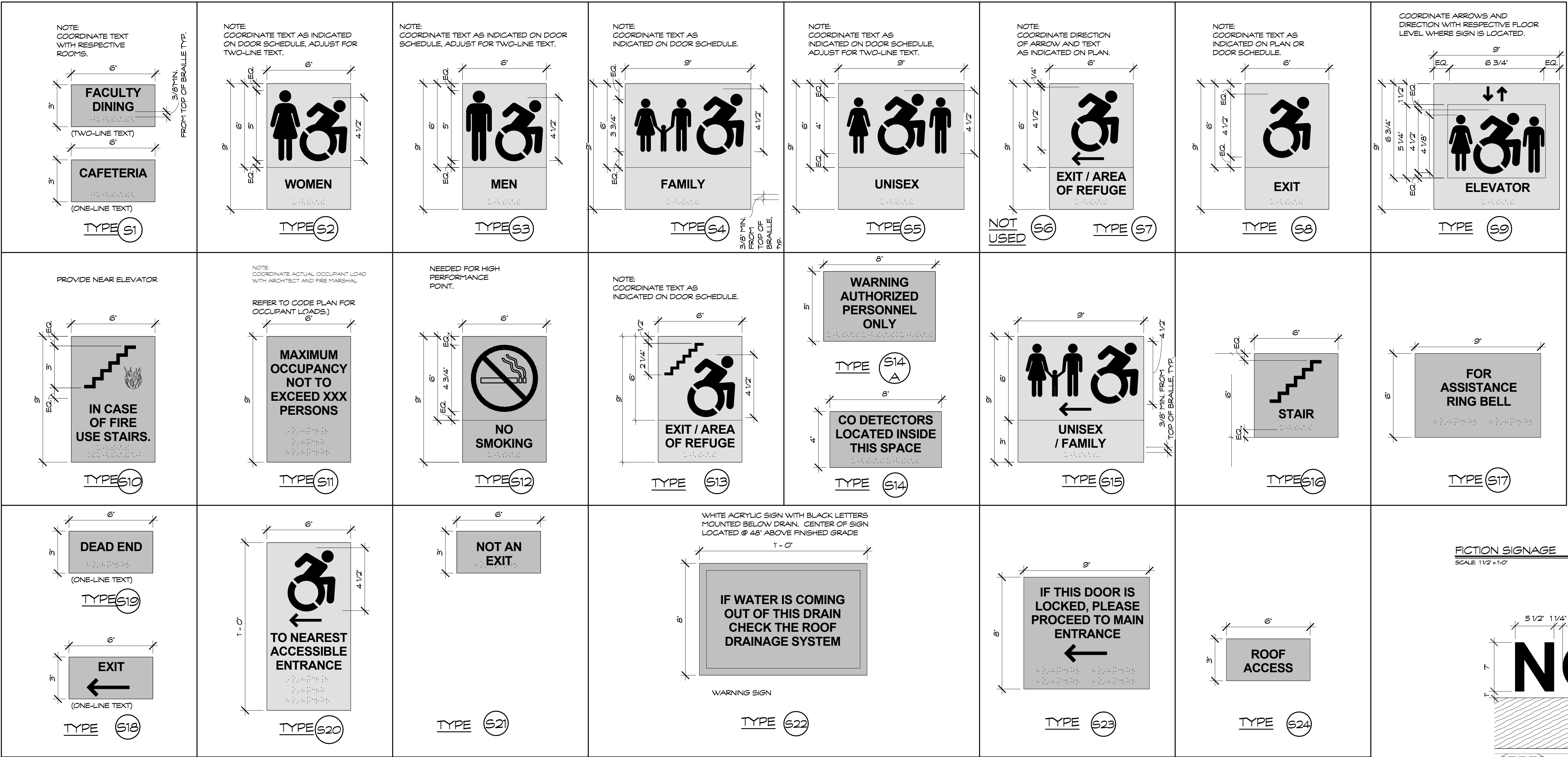
- ALL EXISTING DOORS SCHEDULED ARE TO RECEIVE NEW CYLINDERS AND KEYING

ABBREVIATIONS & SYMBOLS

- INDICATES NEW WORK
- O - INDICATES EXISTING TO REMAIN
- REFER TO WINDOW AND CURTAIN WALL ELEVATIONS
- AL - ALUMINUM
- EX - EXISTING
- EXT - EXTERIOR
- FIRE - FIRE RATED SAFETY GLASS
- FSP - FIBERGLASS REINFORCED POLYESTER
- HM - HOLLOW METAL
- INSUL - INSULATED
- S.G. - SAFETY GLASS
- STL - STEEL
- TEMP - TEMPERED
- WD - WOOD

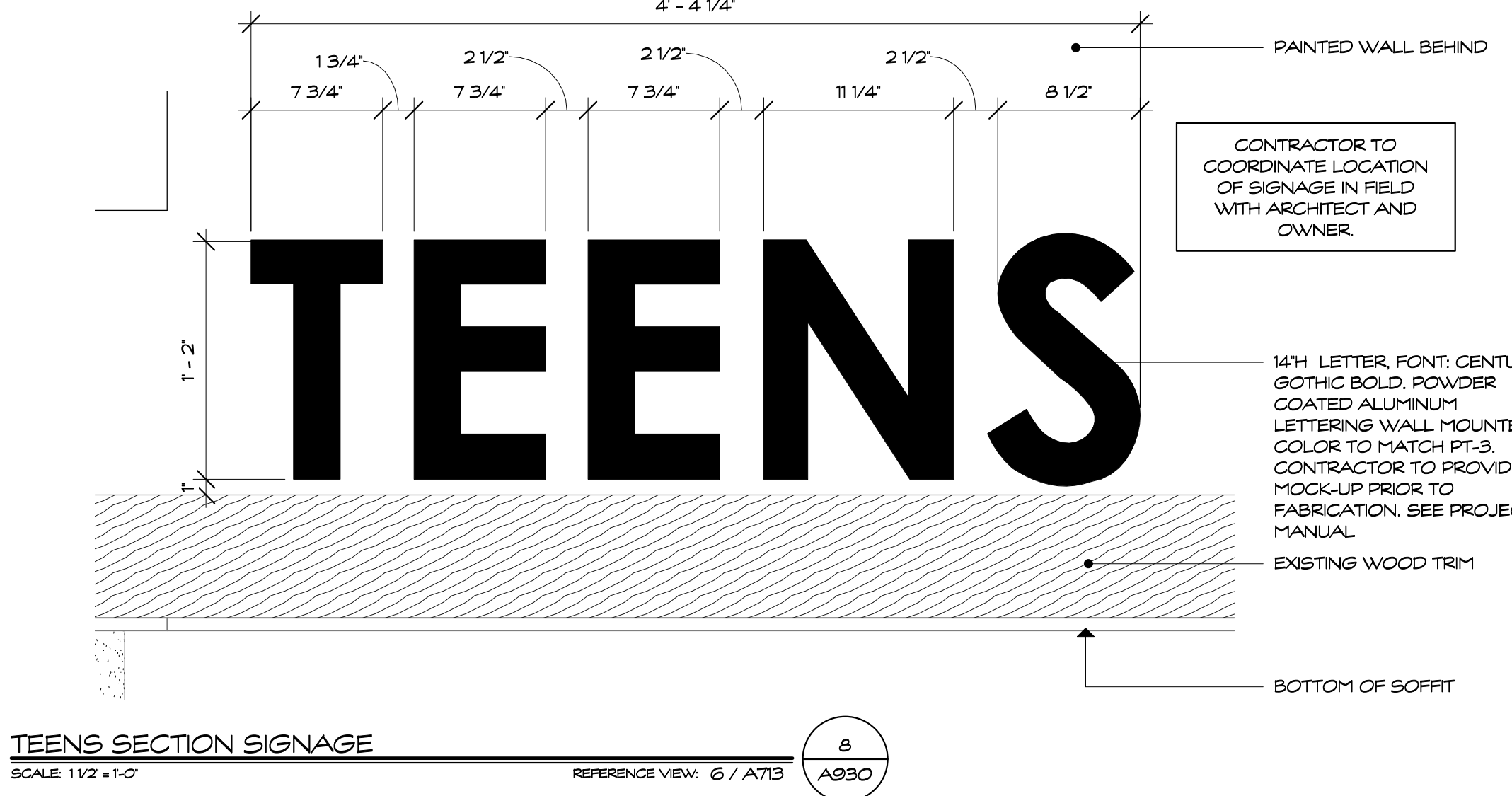
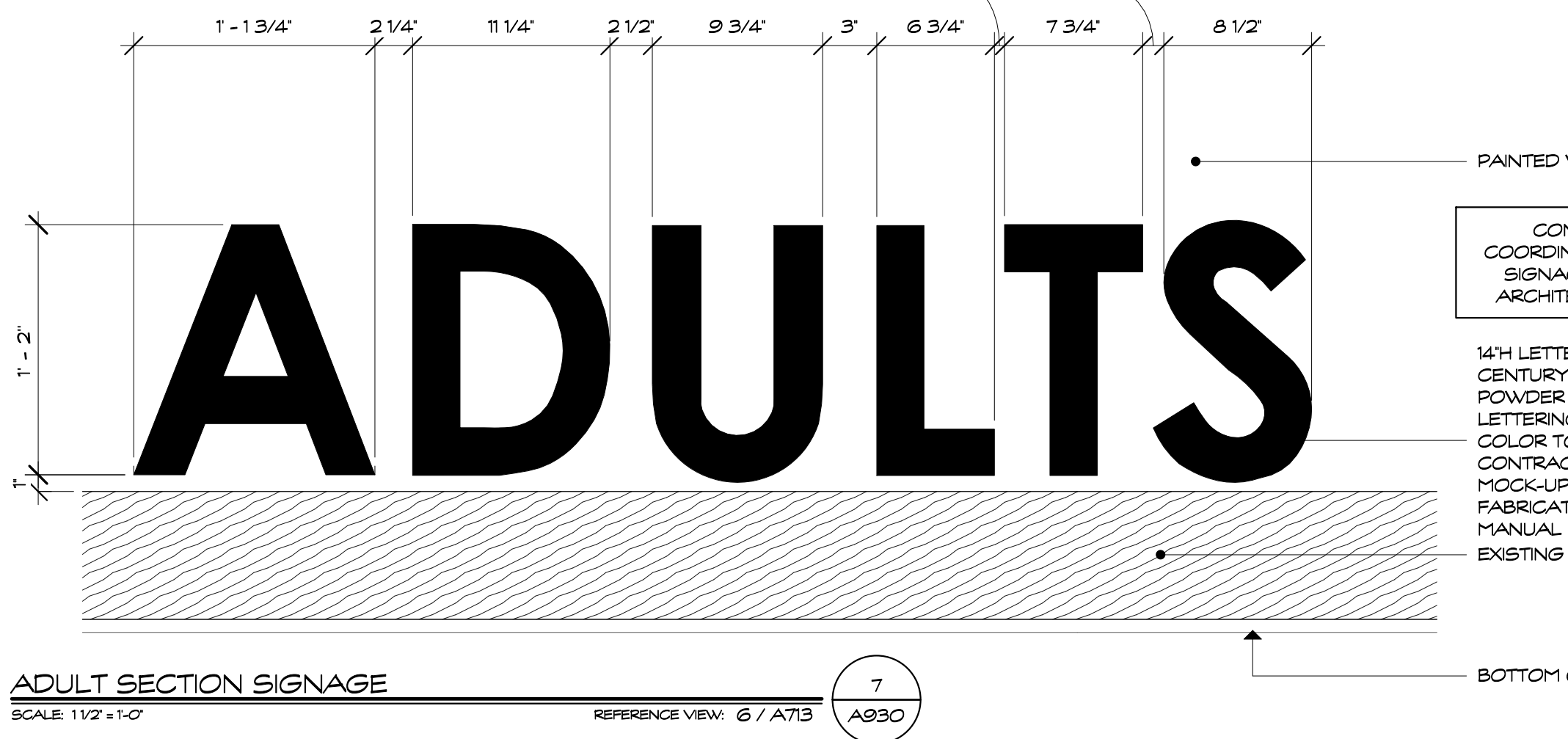
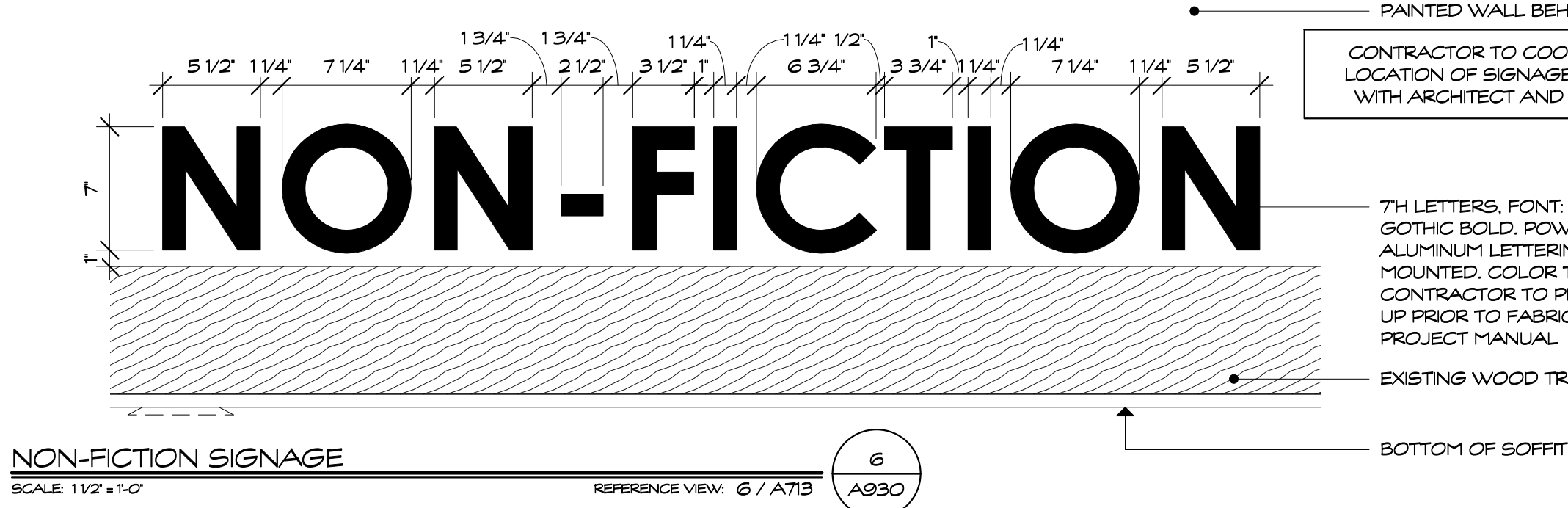
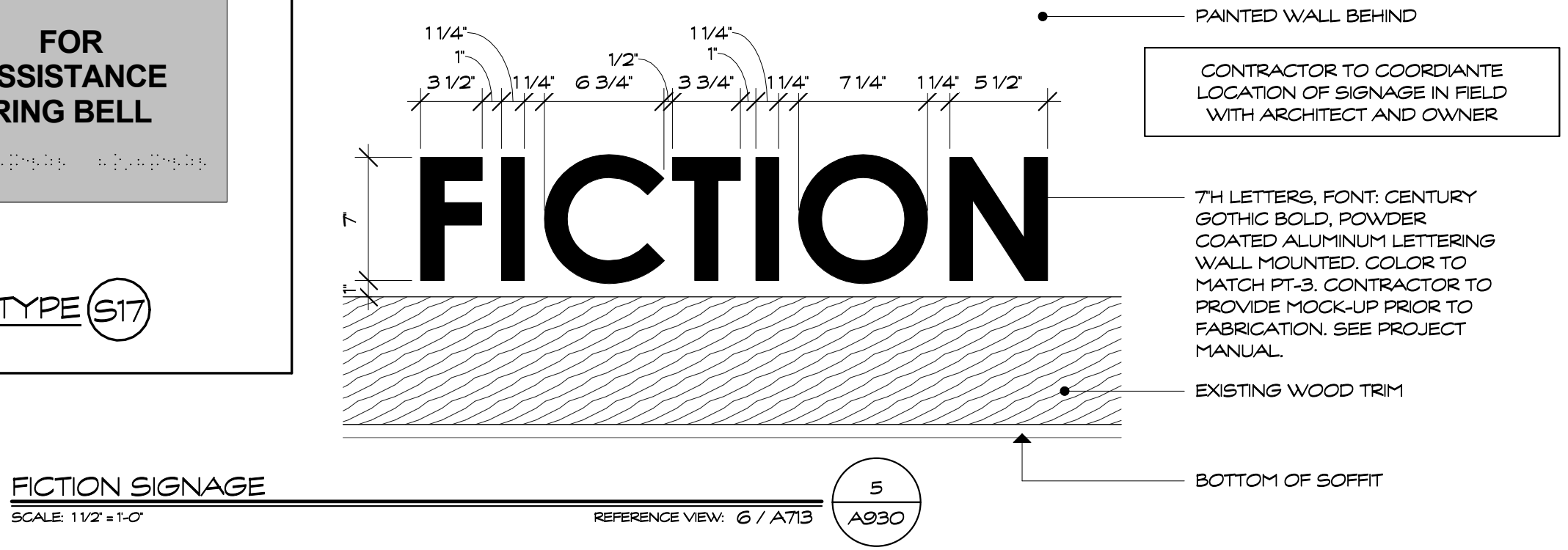
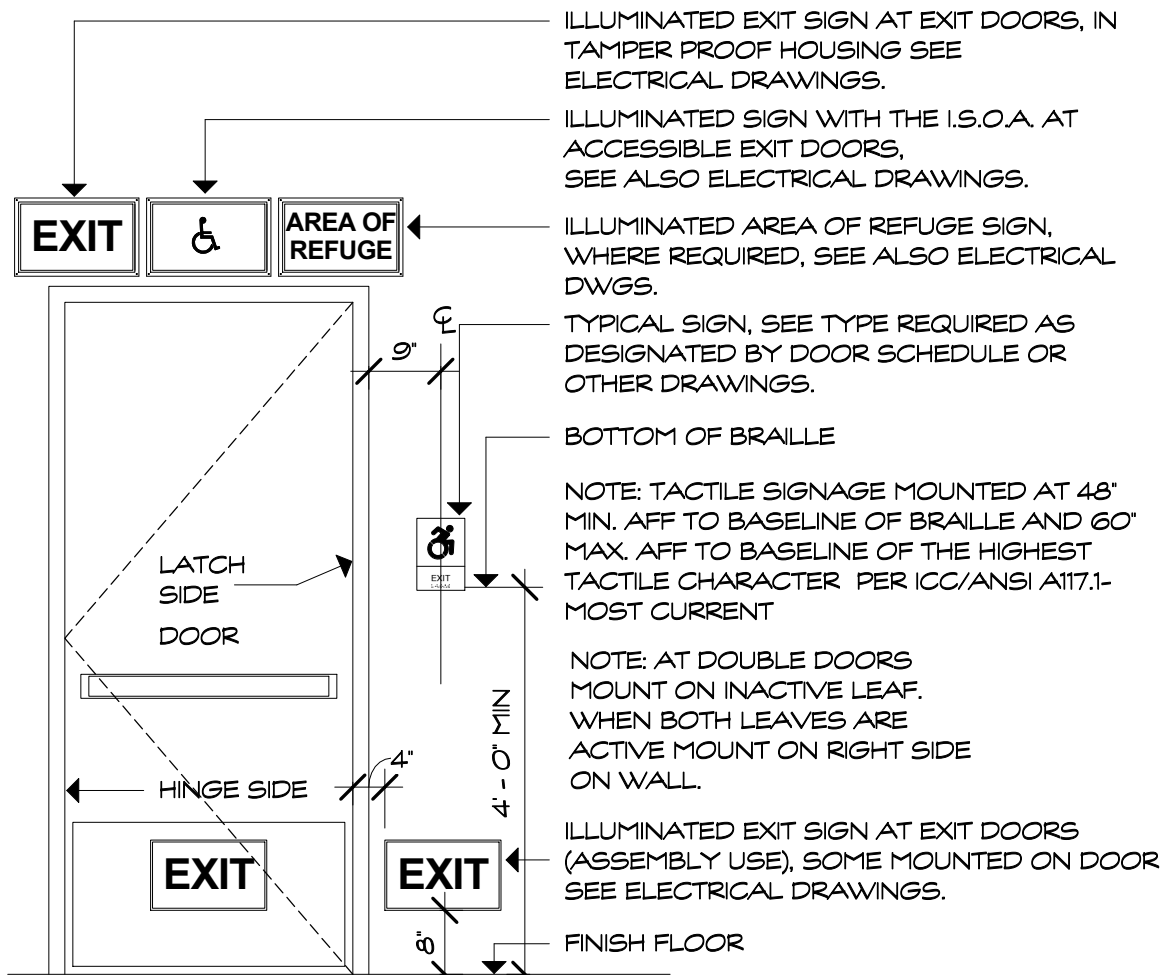
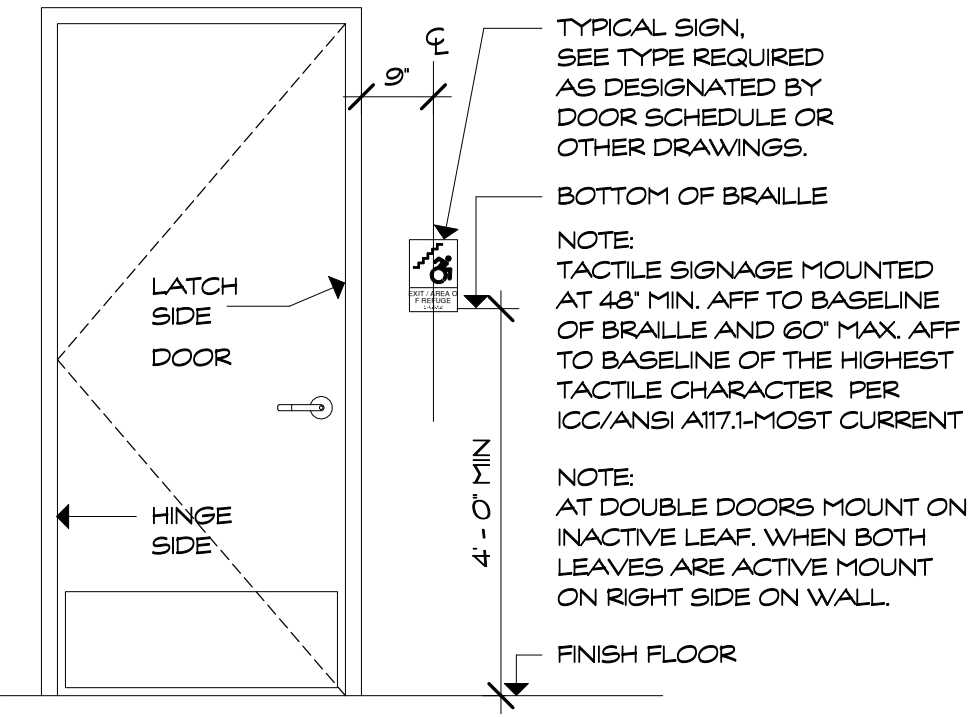
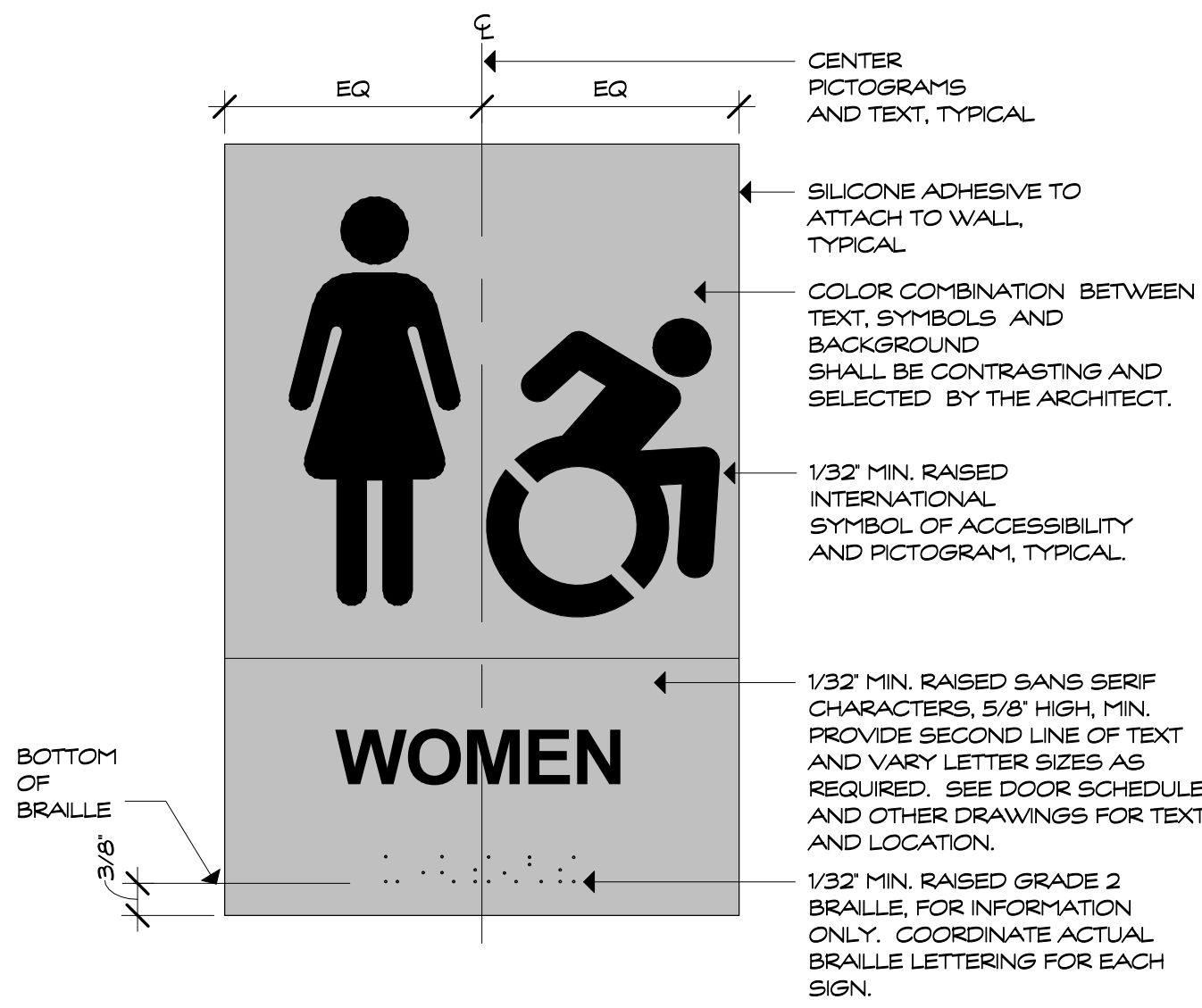






- SIGNAGE NOTES:**
1. SIGNS SHALL COMPLY WITH CURRENT BUILDING CODE, ANSI STANDARDS, ADA REGULATIONS & GUIDELINES, AND ALL OTHER APPLICABLE REGULATIONS.
 2. TEXT ON SIGNS SHALL BE COORDINATED IN FIELD TO REFLECT ROOM USE, AND SHALL BE APPROVED BY ARCHITECT AND OWNER PRIOR TO FABRICATION.
 3. SEE ALSO TYPICAL SIGN DETAIL AND TYPICAL SIGN MOUNTING DETAILS ON THIS DRAWING.
 4. REFER TO DOOR SCHEDULE FOR ADDITIONAL SIGNAGE REQUIREMENTS AND TEXT AT ALL DOORS.

SEE ELECTRICAL DRAWINGS FOR ALL ILLUMINATED SIGNAGE



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Revision:	Description:	Date:	Revised By:

Drawing Title:
SIGNAGE DETAILS

Date:
JUL 17, 2018
Scale:
As Indicated
Drawn By:
Author:
Project Number:
17.025

Drawing Number:
A930

FLOOR TRANSITION STRIP DETAILS

TYPE (A)
 CARPET (CPT)
 TRANSITION STRIP, FTS-1
 EXISTING CONCRETE FLOOR

TYPE (B)
 NO TRANSITION STRIP TO BE USED BETWEEN LVT TO LVT
 LUXURY VINYL TILE, LVT, OR VINYL COMPOSITION TILE, VCT OR RUBBER TILE, RBT-1
 TRANSITION STRIP, FTS-2
 LUXURY VINYL TILE, LVT OR CARPET, CPT

TYPE (C)
 CERAMIC FLOOR TILE, CFT
 METAL TRANSITION, FTS-3
 LUXURY VINYL TILE, LVT

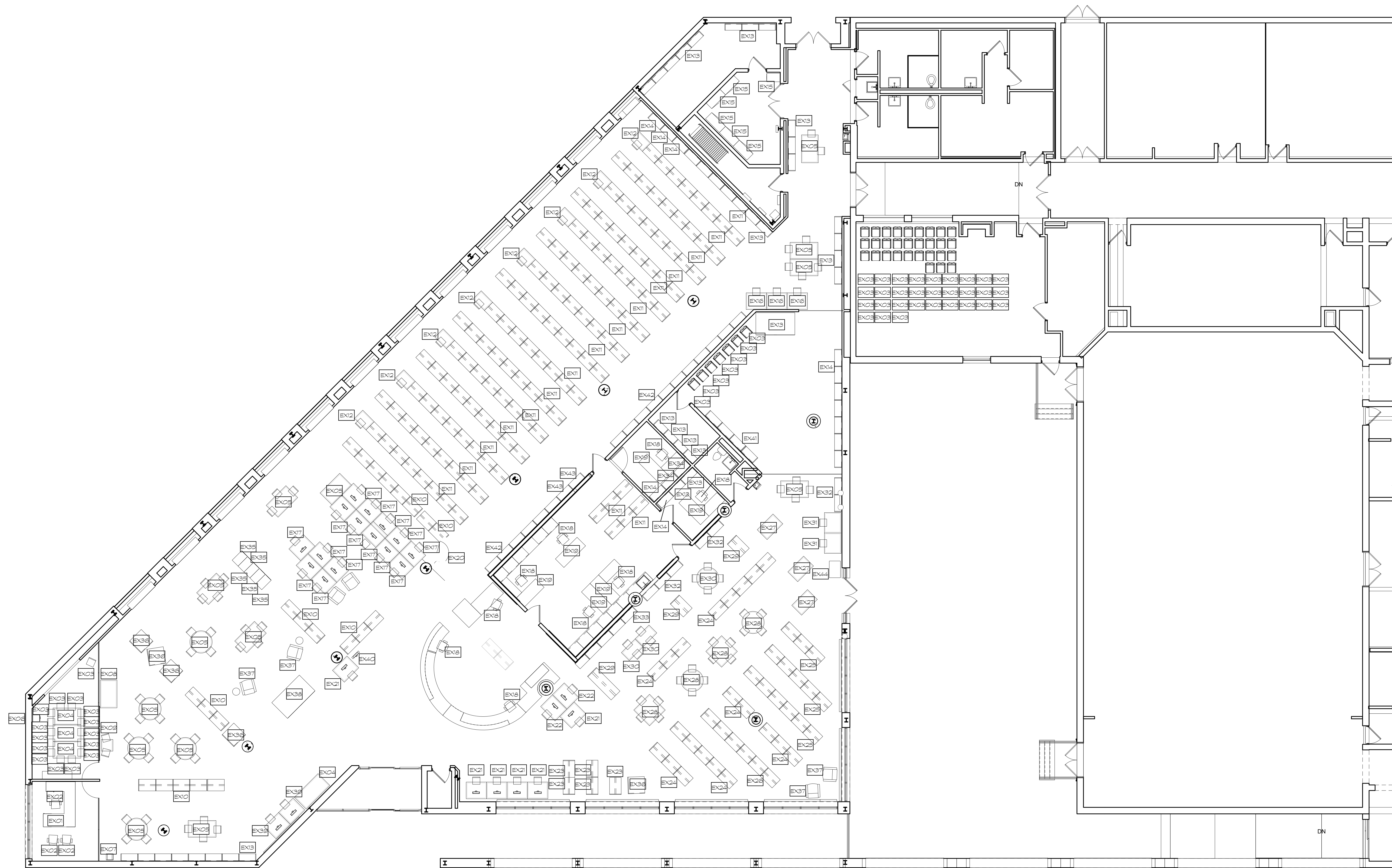
TYPE (D)
 LUXURY VINYL TILE, LVT, OR CARPET, CPT
 MARBLE THRESHOLD, FTS-4
 CERAMIC FLOOR TILE, CFT

TYPE (E)
 VARIES MATCH FRAME WIDTH
 DOOR
 FINISH FL
 FINISH FL
 EXTERIOR ADA THRESHOLD
 1/2"

1
 AS40

SCALE: 3" = 1'-0"

NORTH



EXISTING FURNITURE PLANN
SCALE: 1/8" = 1'-0"
NORTH

1
FFE1

EXISTING FURNITURE SCHEDULE				
NO.	DESCRIPTION	ACTION	QUANTITY	FREE NOTES
EX01	EXISTING L-SHAPED DESK	REMOVE	1	
EX02	EXISTING CHAIR	REMOVE	3	
EX03	EXISTING CHAIR	REMAIN IN SAME LOCATION	52	
EX04	EXISTING RECTANGULAR TABLE	REMAIN IN SAME LOCATION	4	
EX05	EXISTING TABLE & CHAIRS	RELOCATE	14	
EX06	EXISTING SAFE	RELOCATE	1	OWNER TO PROVIDE NEW LOCATION
EX07	EXISTING GRANDFATHER CLOCK	REMAIN IN SAME LOCATION	1	
EX08	EXISTING BOOK STORAGE	REMOVE	1	
EX09	EXISTING GAME TABLE & CHAIRS	RELOCATE	1	
EX10	EXISTING 42H STACKS	RELOCATE	6	
EX11	EXISTING 90H STACKS (SEE PLAN FOR NUMBER OF UNITS PER STACK)	RELOCATE	17	
EX12	EXISTING DESK & CHAIR	REMOVE	8	
EX13	EXISTING 90H WALL STACKS (SEE PLAN FOR NUMBER OF UNITS PER STACK)	REMAIN IN SAME LOCATION	13	
EX14	EXISTING 90H WALL STACKS (SEE PLAN FOR NUMBER OF UNITS PER STACK)	REMOVE	6	
EX15	EXISTING LOCAL HISTORY STORAGE	REMAIN IN SAME LOCATION	6	
EX16	EXISTING STUDY CARREL & CHAIR	RELOCATE	3	
EX17	EXISTING COMPUTER TABLE & CHAIR	REMOVE	15	
EX18	EXISTING TASK CHAIR	REMOVE	9	
EX19	EXISTING L-SHAPED DESK	REMOVE	6	
EX20	EXISTING PRINTER	REMAIN IN SAME LOCATION	1	
EX21	EXISTING COMPUTER TABLE & CHAIR	RELOCATE	6	
EX22	EXISTING COMPUTER TABLE & CHAIR	REMOVE	2	
EX23	EXISTING 59H PAPERBACK STACK	RELOCATE	5	
EX24	EXISTING 42H CHILDREN'S STACKS (SEE PLAN FOR NUMBER OF UNITS PER STACK)	RELOCATE	6	
EX25	EXISTING 66H CHILDREN'S STACKS (SEE PLAN FOR NUMBER OF UNITS PER STACK)	RELOCATE	3	
EX26	EXISTING 42H CHILDREN'S STACKS (SEE PLAN FOR NUMBER OF UNITS PER STACK)	REMOVE	1	
EX27	EXISTING PLAY TABLE	RELOCATE	3	
EX28	EXISTING CHILDREN'S TABLE	RELOCATE	4	
EX29	EXISTING LOW CHILDREN'S BOOKCASE	RELOCATE	3	
EX30	EXISTING LOW CHILDREN'S TABLE & CHAIRS	REMOVE	3	
EX31	EXISTING STUDY CARRELS	REMOVE	2	
EX32	EXISTING 66H WALL STACKS (SEE PLAN FOR NUMBER OF UNITS PER STACK)	RELOCATE	3	
EX33	EXISTING 42H WALL STACKS (SEE PLAN FOR NUMBER OF UNITS PER STACK)	RELOCATE	1	
EX34	EXISTING 90H WALL STACKS (SEE PLAN FOR NUMBER OF UNITS PER STACK)	RELOCATE	2	
EX35	EXISTING FILE CABINET	RELOCATE	5	
EX36	EXISTING BOOK SPINNER	RELOCATE	5	
EX37	EXISTING CLUB CHAIR AND SIDE TABLE	REMOVE	4	
EX38	EXISTING CD STORAGE	RELOCATE	1	OWNER TO PROVIDE NEW LOCATION
EX39	EXISTING COMPUTER STATION	REMAIN IN SAME LOCATION	2	
EX40	EXISTING COMPUTER KIOSK	RELOCATE	1	
EX41	EXISTING METAL STORAGE UNIT	REMOVE	1	
EX42	EXISTING WALL STACKS (SEE PLAN FOR NUMBER OF UNITS PER STACK)	REMAIN IN SAME LOCATION	2	
EX43	EXISTING WALL STACKS (SEE PLAN FOR NUMBER OF UNITS PER STACK)	RELOCATE	2	OWNER TO PROVIDE NEW LOCATION
EX44	EXISTING FISH TANK	RELOCATE	1	
GENERAL FURNITURE NOTE				
1. FURNITURE PLAN DEPICTS ALL MAJOR FURNITURE ELEMENTS. NOT ALL AUXILIARY PIECES HAVE BEEN DEPICTED IN PLAN BUT ARE INCLUDED FOR MOVE AND STORAGE COORDINATION BY CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR WALKING SITE AND COORDINATING ALL EXISTING ITEMS WITH OWNER.				
2. COORDINATE REMOVAL OF ALL ITEMS WITH OWNER PRIOR TO DISPOSAL.				

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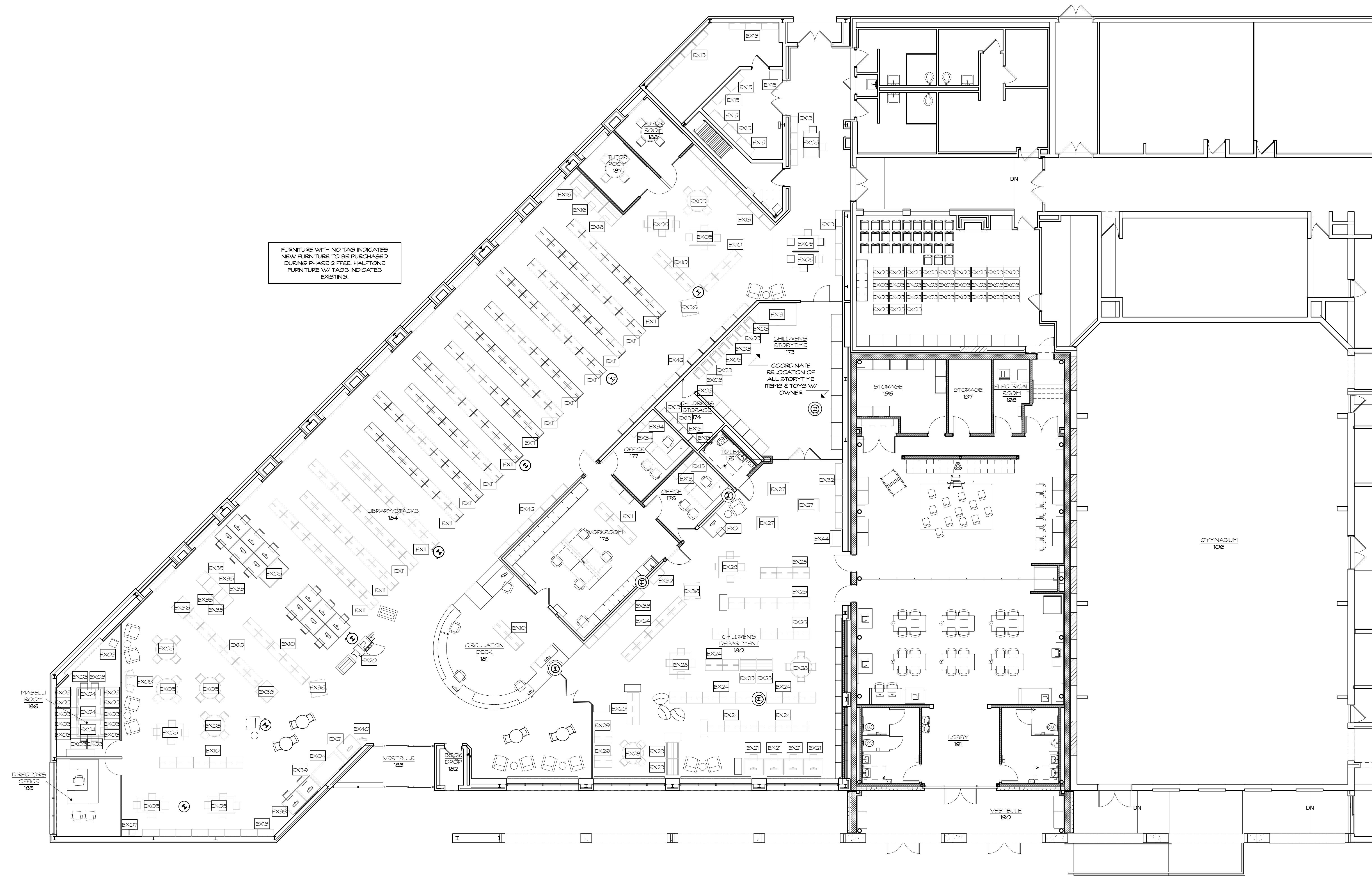
Revision:	Description:	Date:	Revised By:

Drawing Title:
EXISTING FURNITURE PLAN

Date:
JUL 17, 2018
Scale:
As Indicated
Drawn By:
JET
Project Number:
17.025

Drawing Number:

FFE1



LIBRARY FURNITURE PLAN
SCALE: 1/8" = 1'-0"
1 FFE2

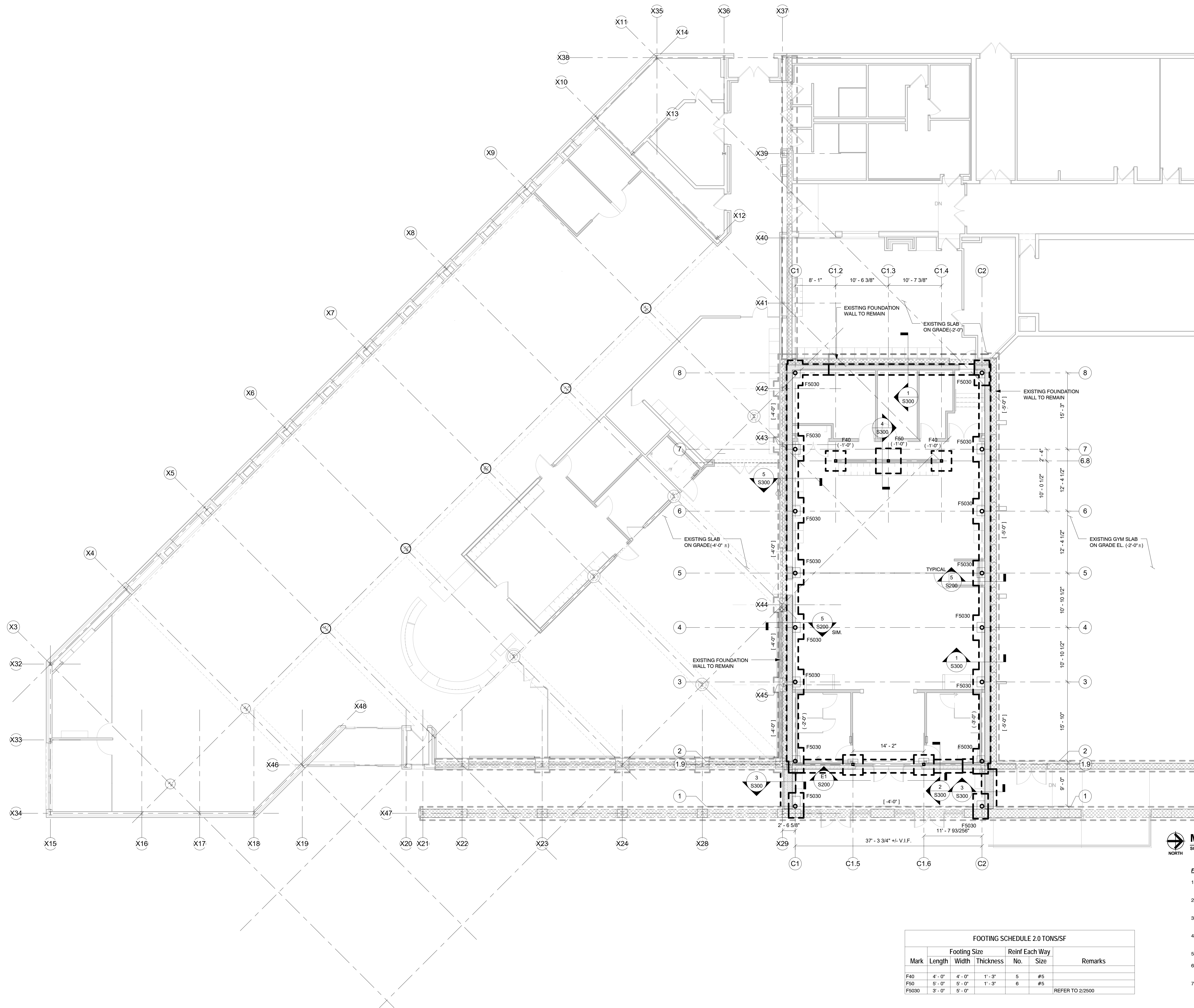
EXISTING FURNITURE SCHEDULE				
NO.	DESCRIPTION	ACTION	QUANTITY	FREE NOTES
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EX07	EXISTING GRANDFATHER CLOCK	REMAIN IN SAME LOCATION	1	
EX08	EXISTING BOOK STORAGE	REMOVE	1	
EX09	EXISTING GAME TABLE & CHAIRS	RELOCATE	1	
EX10	EXISTING 42H STACKS	RELOCATE	6	
EX11	EXISTING 90H STACKS (SEE PLAN FOR NUMBER OF UNITS PER STACK)	RELOCATE	17	
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EX25	EXISTING 66H CHILDREN'S STACKS (SEE PLAN FOR NUMBER OF UNITS PER STACK)	RELOCATE	3	
EX26	EXISTING 42H CHILDREN'S STACKS (SEE PLAN FOR NUMBER OF UNITS PER STACK)	REMOVE	1	
EX27	EXISTING PLAY TABLE	RELOCATE	3	
EX28	EXISTING CHILDREN'S TABLE	RELOCATE	4	
EX29	EXISTING LOW CHILDREN'S BOOKCASE	RELOCATE	3	
EX30	EXISTING LOW CHILDREN'S TABLE & CHAIRS	REMOVE	3	
EX31	EXISTING STUDY CARRELS	REMOVE	2	
EX32	EXISTING 66H WALL STACKS (SEE PLAN FOR NUMBER OF UNITS PER STACK)	RELOCATE	3	
EX33	EXISTING 42H WALL STACKS (SEE PLAN FOR NUMBER OF UNITS PER STACK)	RELOCATE	1	
EX34	EXISTING 90H WALL STACKS (SEE PLAN FOR NUMBER OF UNITS PER STACK)	RELOCATE	2	
EX35	EXISTING FILE CABINET	RELOCATE	5	
EX36	EXISTING BOOK SPINNER	RELOCATE	5	
EX37	EXISTING CLUB CHAIR AND SIDE TABLE	REMOVE	4	
EX38	EXISTING CD STORAGE	RELOCATE	1	OWNER TO PROVIDE NEW LOCATION
EX39	EXISTING COMPUTER STATION	REMAIN IN SAME LOCATION	2	
EX40	EXISTING COMPUTER KIOSK	RELOCATE	1	
EX41	EXISTING METAL STORAGE UNIT	REMOVE	1	
EX42	EXISTING WALL STACKS (SEE PLAN FOR NUMBER OF UNITS PER STACK)	REMAIN IN SAME LOCATION	2	
EX43	EXISTING WALL STACKS (SEE PLAN FOR NUMBER OF UNITS PER STACK)	RELOCATE	2	OWNER TO PROVIDE NEW LOCATION
EX44	EXISTING FISH TANK	RELOCATE	1	

GENERAL FURNITURE NOTE

1. FURNITURE PLAN DEPICTS ALL MAJOR FURNITURE ELEMENTS. NOT ALL ANCILLARY PIECES HAVE BEEN DEPICTED IN PLAN, BUT ARE INCLUDED FOR MOVE AND STORAGE COORDINATION BY CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR WALKING SITE AND COORDINATING ALL EXISTING ITEMS WITH OWNER.

2. COORDINATE REMOVAL OF ALL ITEMS WITH OWNER PRIOR TO DISPOSAL.





MAIN LEVEL AND FOUNDATION
SCALE: 1/8" = 1'-0"

1
S100

- FOUNDATION NOTES:**
1. TOP OF CONCRETE SLAB ELEVATION = (-4'-0") UNLESS OTHERWISE NOTED. MATCH EXISTING LIBRARY ROOM 184 SLAB ELEVATION COORDINATE WITH ARCHITECTURAL DRAWINGS.
 2. FLOOR CONSTRUCTION: 8" NORMAL WEIGHT CONCRETE SLAB REINF. WITH 6X6-W2.9XW2.9 W.W.F. (CHAIRED), OVER A 15 MIL VAPOR RETARDER. REFER TO GENERAL NOTES FOR SUBGRADE REQUIREMENTS.
 3. PROVIDE SAWCUT JOINTS IN SLAB ON GRADE PER NOTE #4 ON DRAWINGS S600, AND "TYPICAL SLAB ON GRADE DETAILS" ON SHEET S500.
 4. TOP OF FOOTING ELEVATION (X-X') GIVEN FROM ELEVATION (-4'-0"). [X-X'] INDICATES ASSUMED BOTTOM OF EXISTING FOOTING ELEVATION.
 5. COORDINATE ALL SLAB ON GRADE DEPRESSIONS WITH ARCHL. DRAWINGS.
 6. COORDINATE ALL PLUMBING INVERTS AND LOCATIONS WITH PLUMBING & SITE DRAWINGS REFER TO TYPICAL DETAIL ON DRAWING S600 FOR SUB SURFACE PIPING THROUGH FOUNDATION WALLS.
 7. "C.J." INDICATES FOUNDATION WALL CONTROL JOINT. REFER TO TYPICAL DETAIL ON DRAWING S500

FOOTING SCHEDULE 2.0 TONS/SF						
Mark	Footing Size			Reinf Each Way		Remarks
	Length	Width	Thickness	No.	Size	
F40	4'-0"	4'-0"	1'-3"	5	#5	
F50	5'-0"	5'-0"	1'-3"	6	#5	
F5030	3'-0"	5'-0"				REFER TO 2/2500

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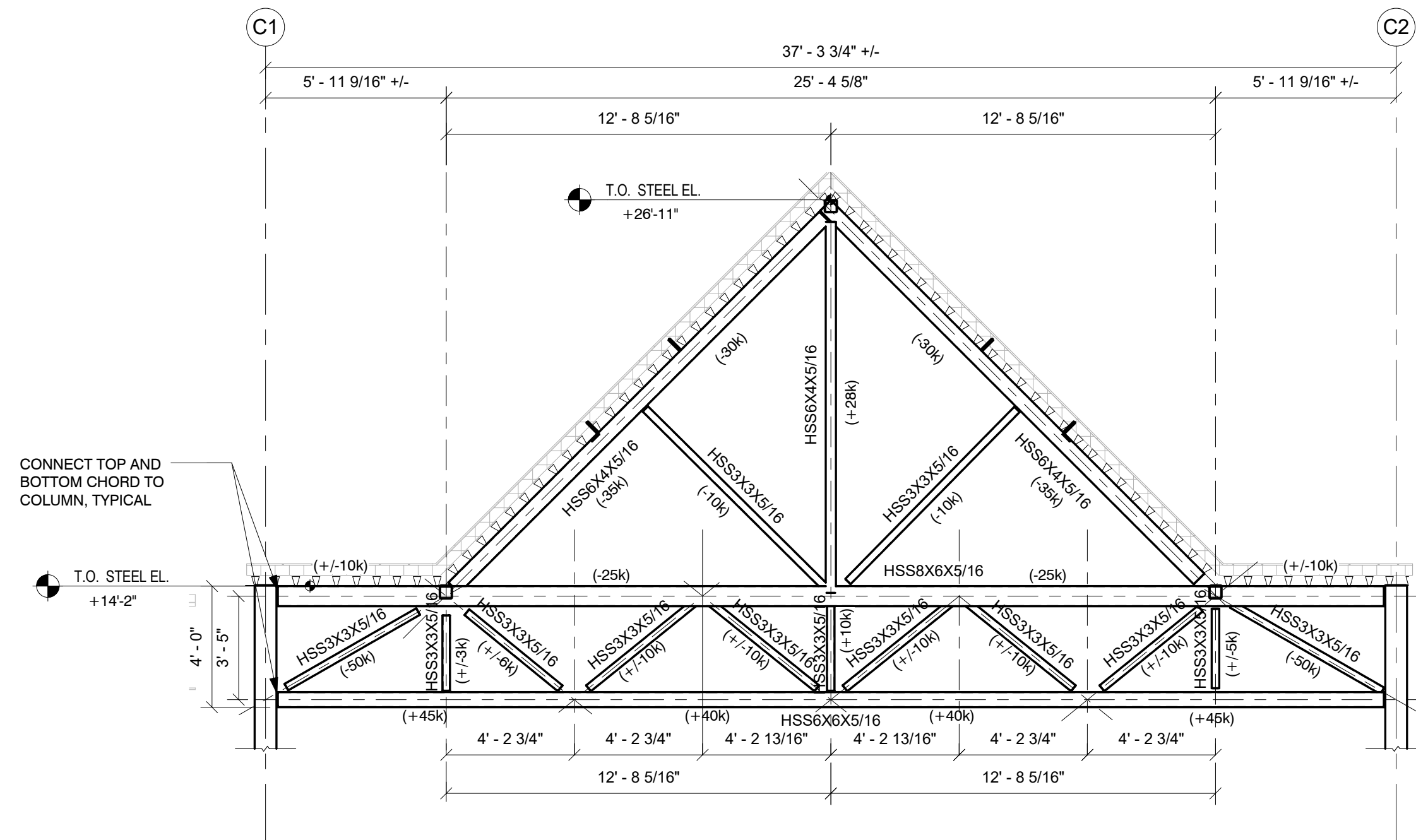
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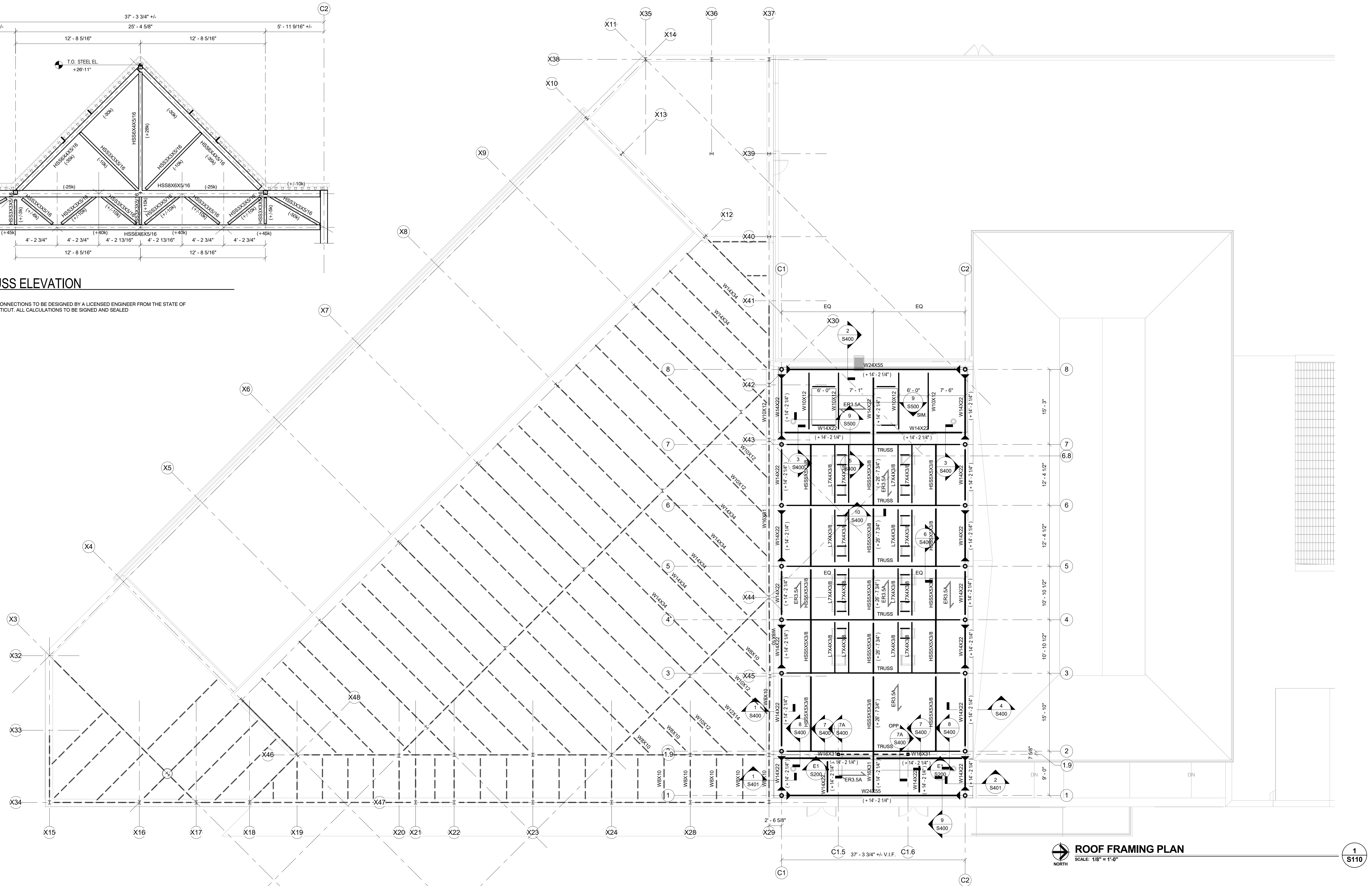
Drawing Title:
MAIN LEVEL AND
FOUNDATION PLAN

Date: 7/17/18
Scale: 1/8" = 1'-0"
Drawn By: AC
Project Number: 17.025
Drawing Number: S100



E1 TRUSS ELEVATION
1/4" = 1'-0"

TRUSS CONNECTIONS TO BE DESIGNED BY A LICENSED ENGINEER FROM THE STATE OF CONNECTICUT. ALL CALCULATIONS TO BE SIGNED AND SEALED



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

1 S110

1. TYPICAL ROOF CONSTRUCTION:
ER3.5A INDICATES: EPICORE ER3.5A - 18 GAUGE ACOUSTIC ROOF DECK CEILING SYSTEM. REFER TO GENERAL NOTES FOR FASTENING REQUIREMENTS.
2. INDICATES MOMENT CONNECTION, REFER TO TYPICAL DETAILS ON DRAWING S500

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Drawing Title:
ROOF FRAMING PLAN

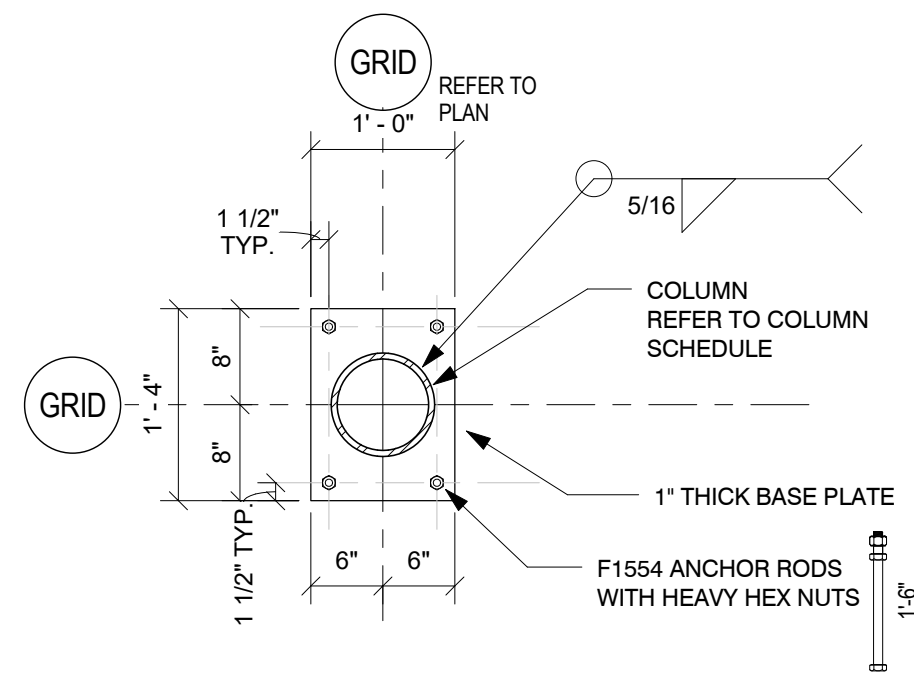
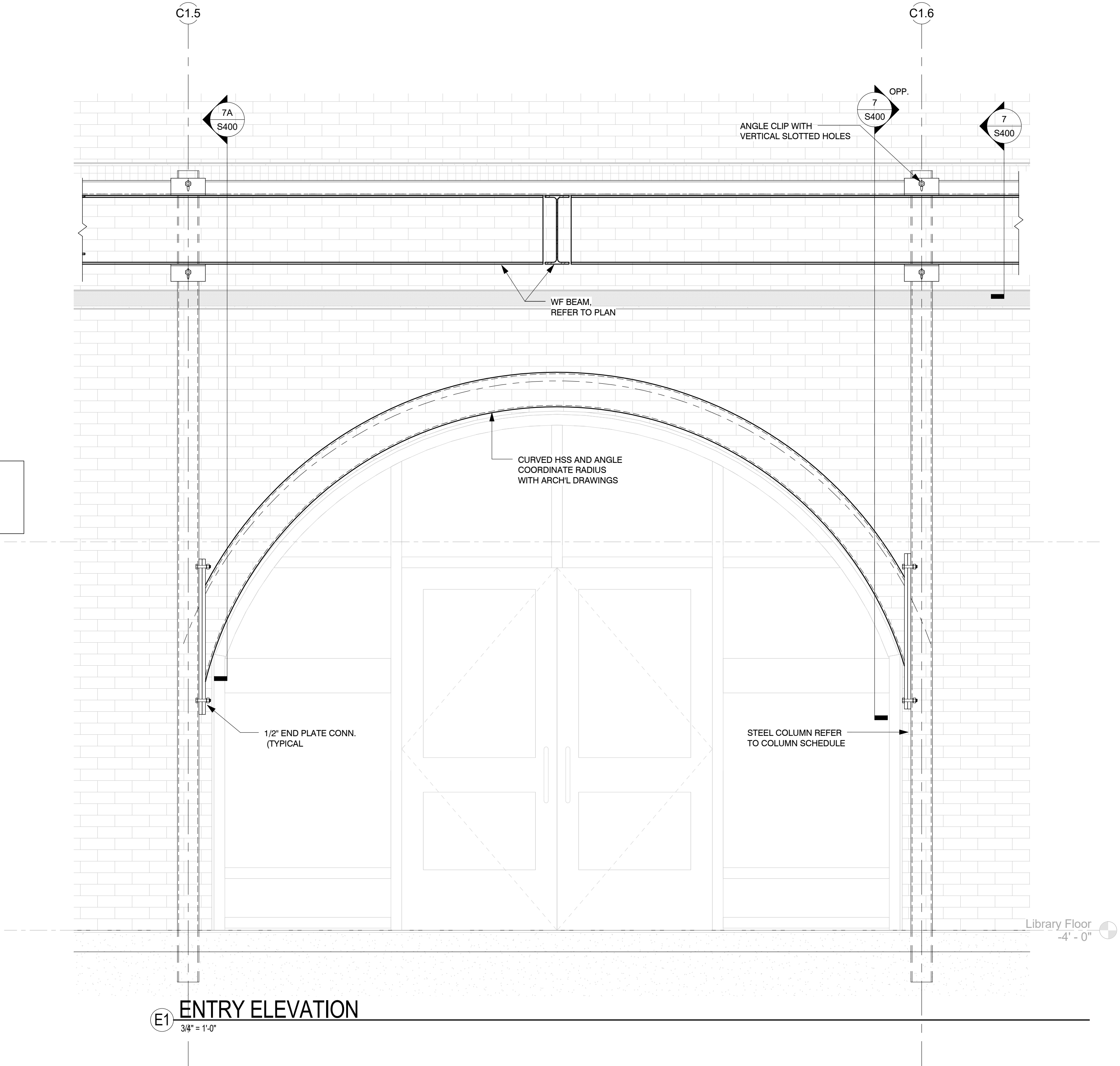
Date: **7/17/18**
Scale: **As indicated**
Drawn By: **AC**
Project Number: **17.025**
Drawing Number: **S110**

COLUMN SCHEDULE																											
Top Of Steel																											Top Of Steel
Roof-M																											Roof-M
26' - 11"																											26' - 11"
Town Hall Upper																											Town Hall Upper
16' - 6"																											16' - 6"
U.O.D. Low ROOF																											U.O.D. Low ROOF
10' - 2 1/4"																											10' - 2 1/4"
Library Floor																											Library Floor
-4' - 0"																											-4' - 0"
Column Locations	C1-1	C1-2	C1-3	C1-4	C1-5	C1-6	C1-7	C1-8	C1-2&8	C1-3&8	C1-4&8	C1-5/19	C1-6/19	C2-1	C2-2	C2-3	C2-4	C2-5	C2-6	C2-7	C2-8						

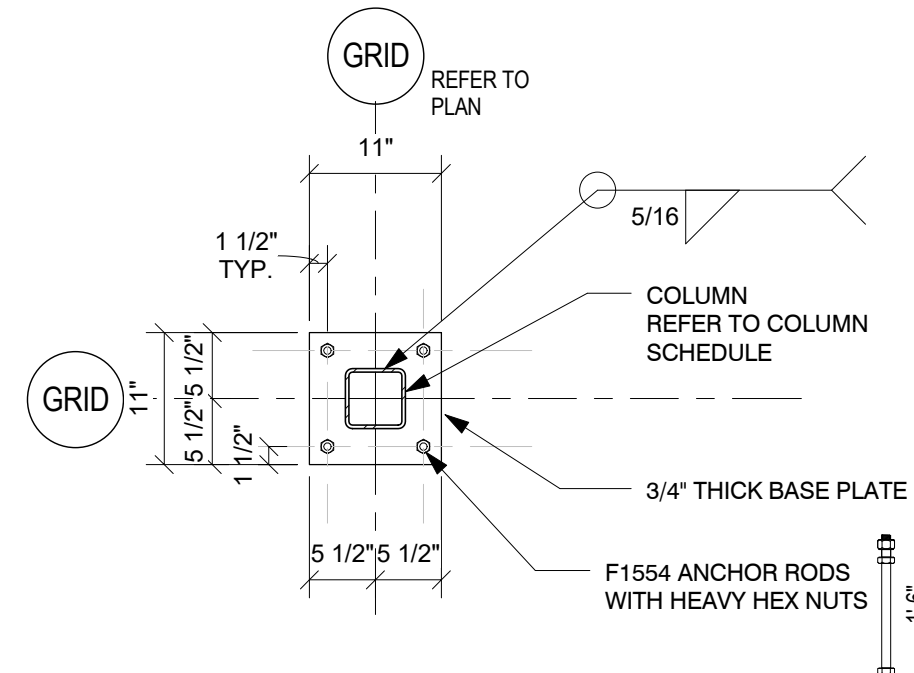
- COLUMN SCHEDULE NOTES:
- LINE AT BOTTOM OF COLUMN INDICATES BOTTOM OF STEEL BASE PLATE. ADD 1 1/2" FOR GROUT AND LEVELING NUTS FOR TOP OF CONCRETE ELEVATION SEE COLUMN PIER SCHEDULE. IF NO PIER DETAIL IS GIVEN, COLUMN SITS DIRECTLY ON FOOTING OR STEEL BEAM.
 - APPROXIMATE TOP OF COLUMN ELEVATION. FOR ACTUAL ELEVATION SEE PLANS AND SECTIONS.
 - PROVIDE 1/4" CAP PLATE AT ALL HSS COLUMNS & 3/4" CAP PLATE AT ALL WIDE FLANGE COLUMNS UNLESS OTHERWISE NOTED.

COLUMN PIER SCHEDULE			
GRID	T/CONC	BASE PLATE	PIER
C1-1	-1'- 0"	BP-1	P1
C1-2	-1'- 0"	BP-1	P1
C1-3	-1'- 0"	BP-1	P1
C1-4	-1'- 0"	BP-1	P1
C1-5	-1'- 0"	BP-1	P1
C1-6	-1'- 0"	BP-1	P1
C1-7	-1'- 0"	BP-1	P1
C1-8	-1'- 0"	BP-1	P1
C1-2&8	-1'- 0"	BP-2	N/A
C1-3&8	-1'- 0"	BP-2	N/A
C1-4&8	-1'- 0"	BP-2	N/A
C2-1	-1'- 0"	BP-1	P1
C2-2	-1'- 0"	BP-1	P1
C2-3	-1'- 0"	BP-1	P1
C2-4	-1'- 0"	BP-1	P1
C2-5	-1'- 0"	BP-1	P1
C2-6	-1'- 0"	BP-1	P1
C2-7	-1'- 0"	BP-1	P1
C2-8	-1'- 0"	BP-1	P1

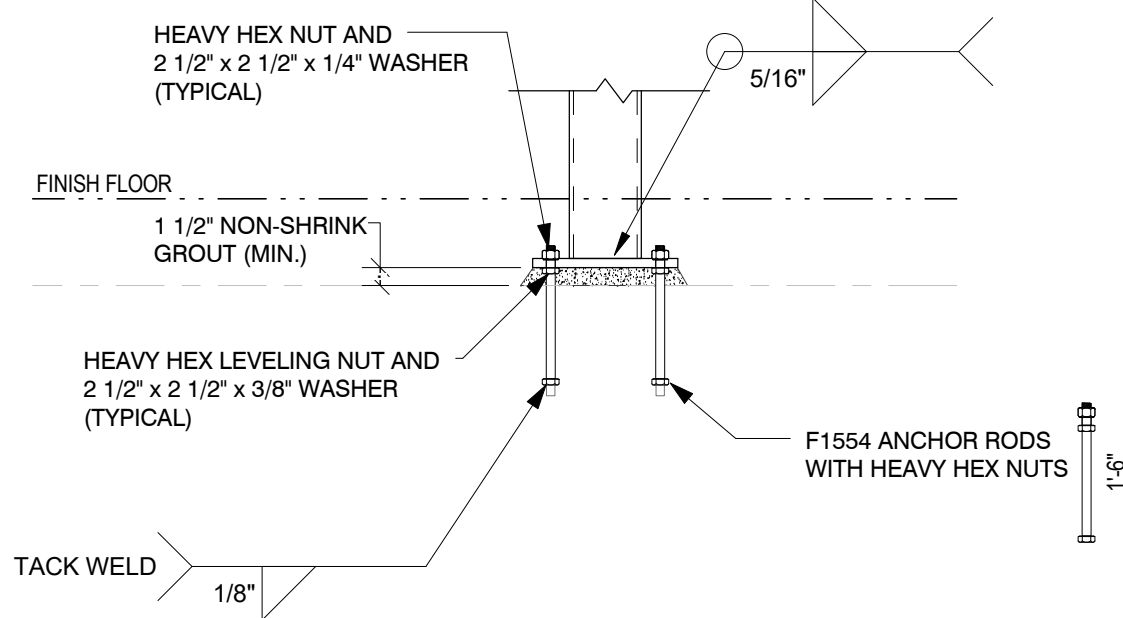
- NOTE:
- IF NO PIER DETAIL DESIGNATION IS GIVEN, COLUMN SITS DIRECTLY ON FOOTING OR STEEL BEAM. REFER TO DRAWING S202 FOR BASE PLATE DETAILS.
 - TOP OF CONCRETE IS GIVEN FROM FINISHED FLOOR ELEVATION (0'-0").



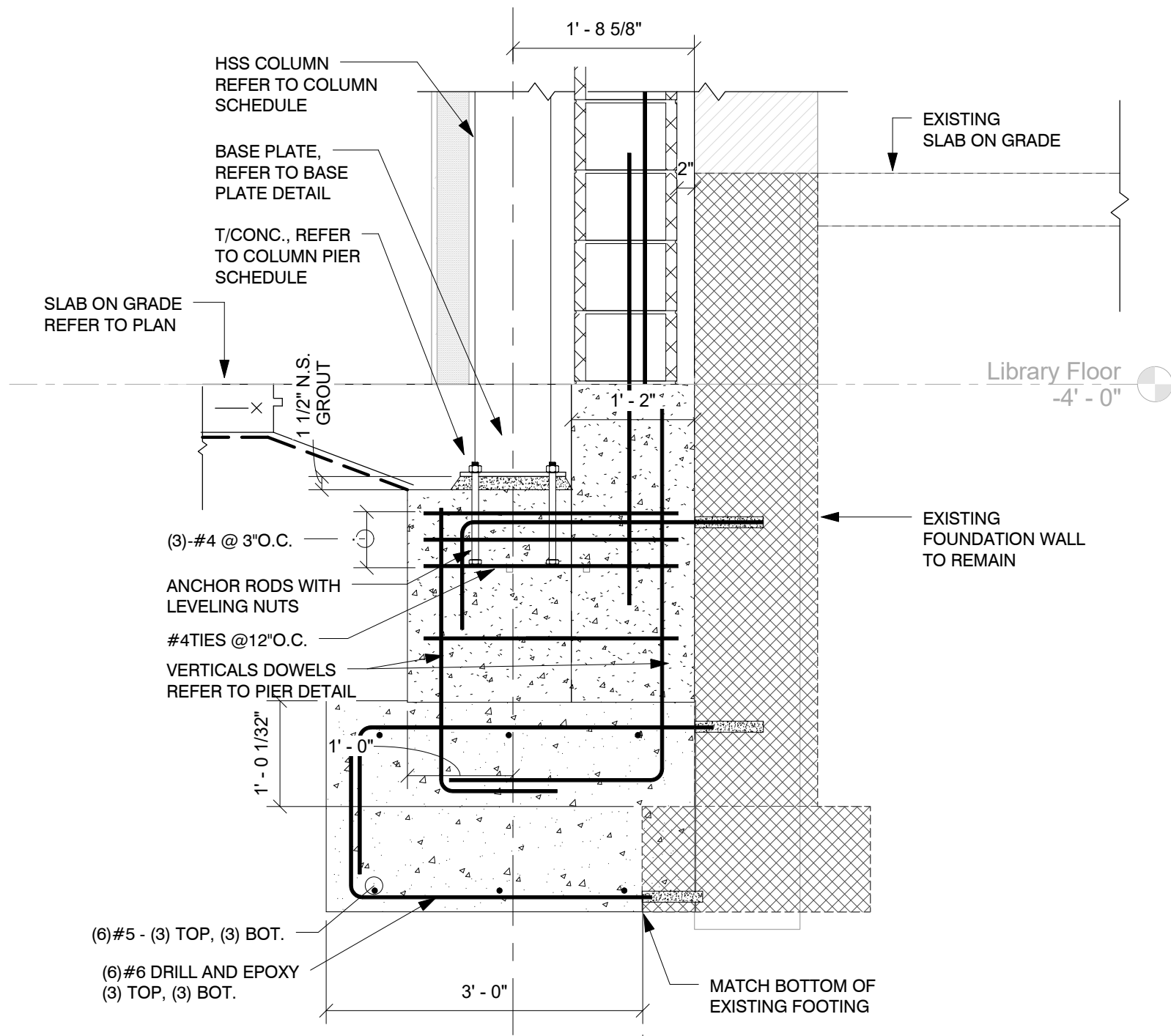
BASE PLATE BP-1



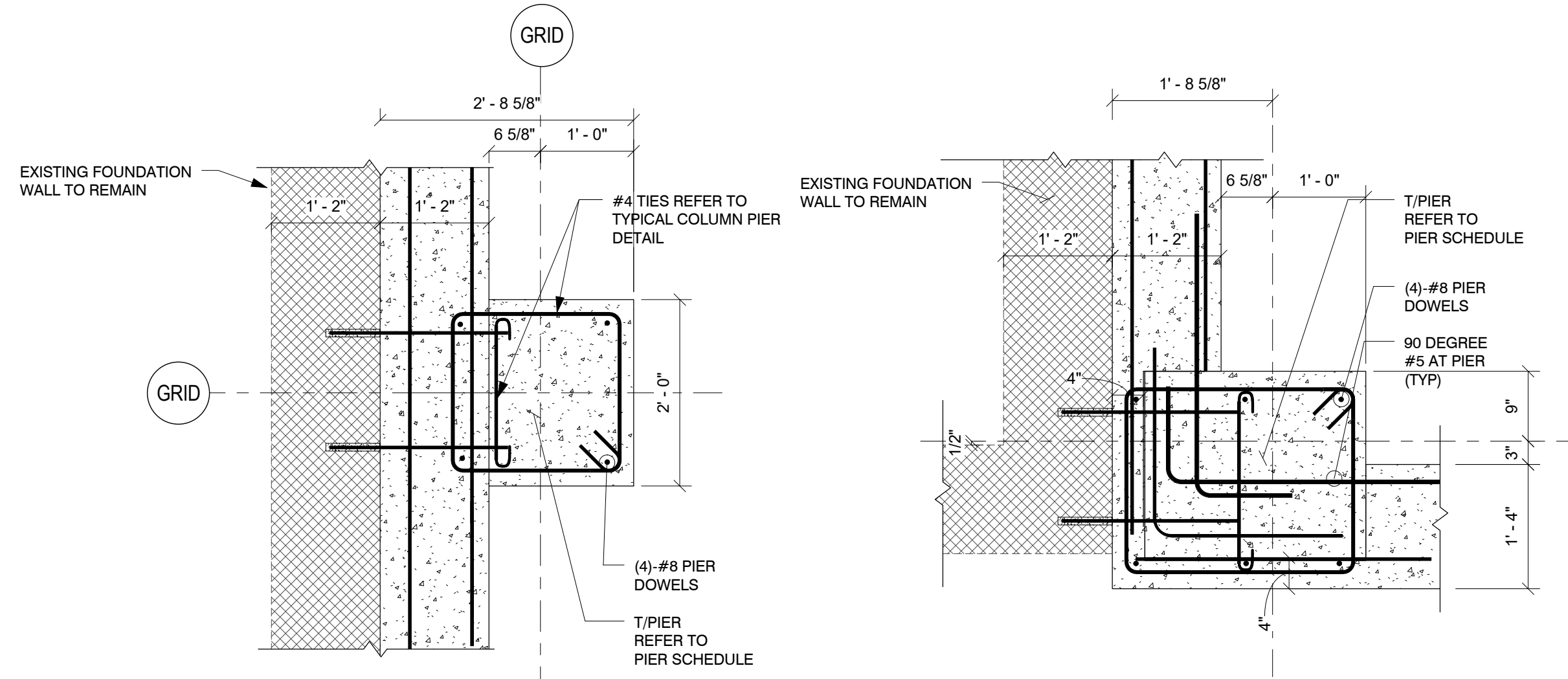
BASE PLATE BP-2



2 TYPICAL COLUMN BASE PLATE DETAIL
3/4" = 1'-0"

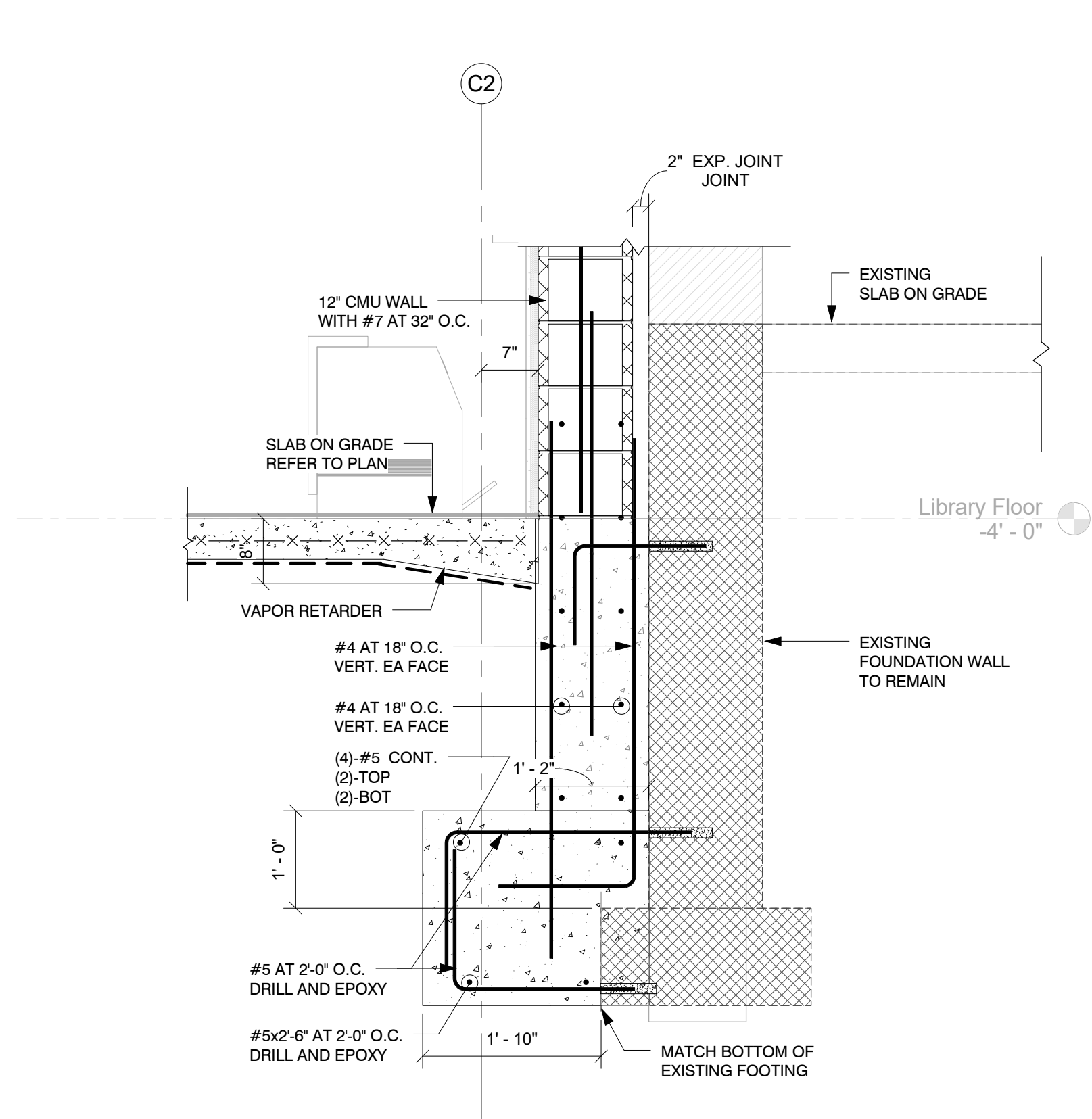


5 TYPICAL COLUMN PIER DETAIL AT EXISTING WALL
3/4" = 1'-0"

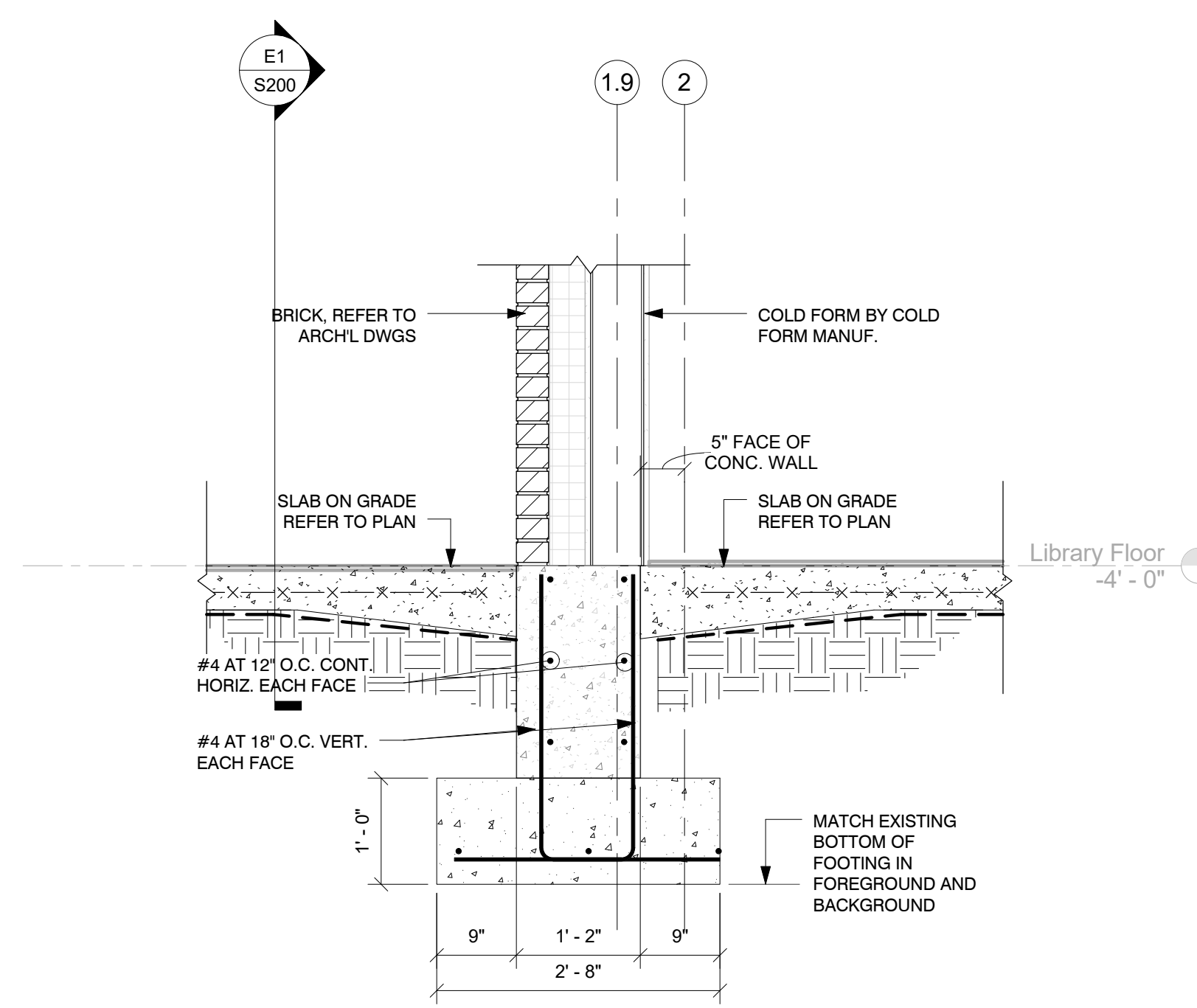


1 PIER DETAIL
3/4" = 1'-0"

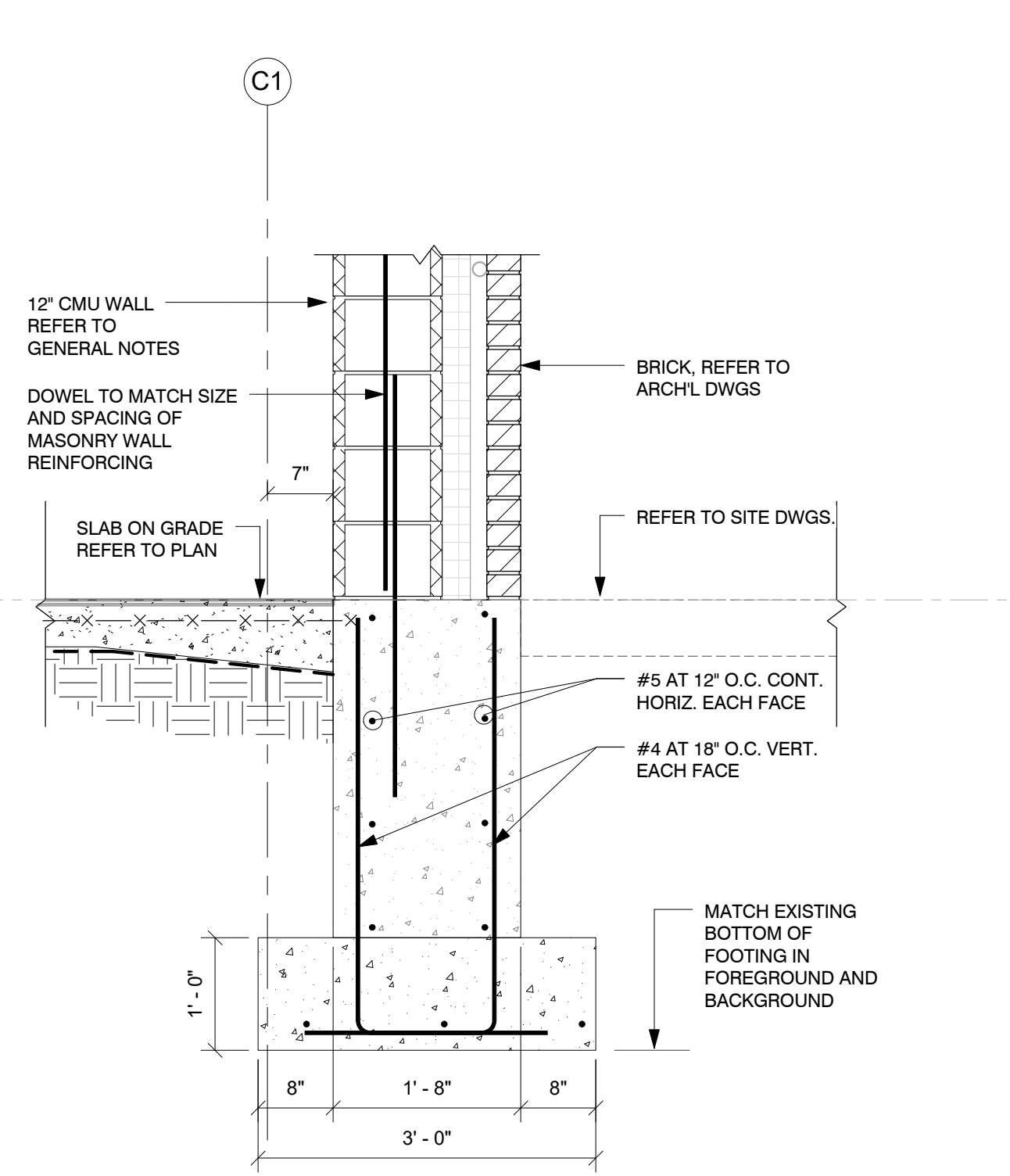




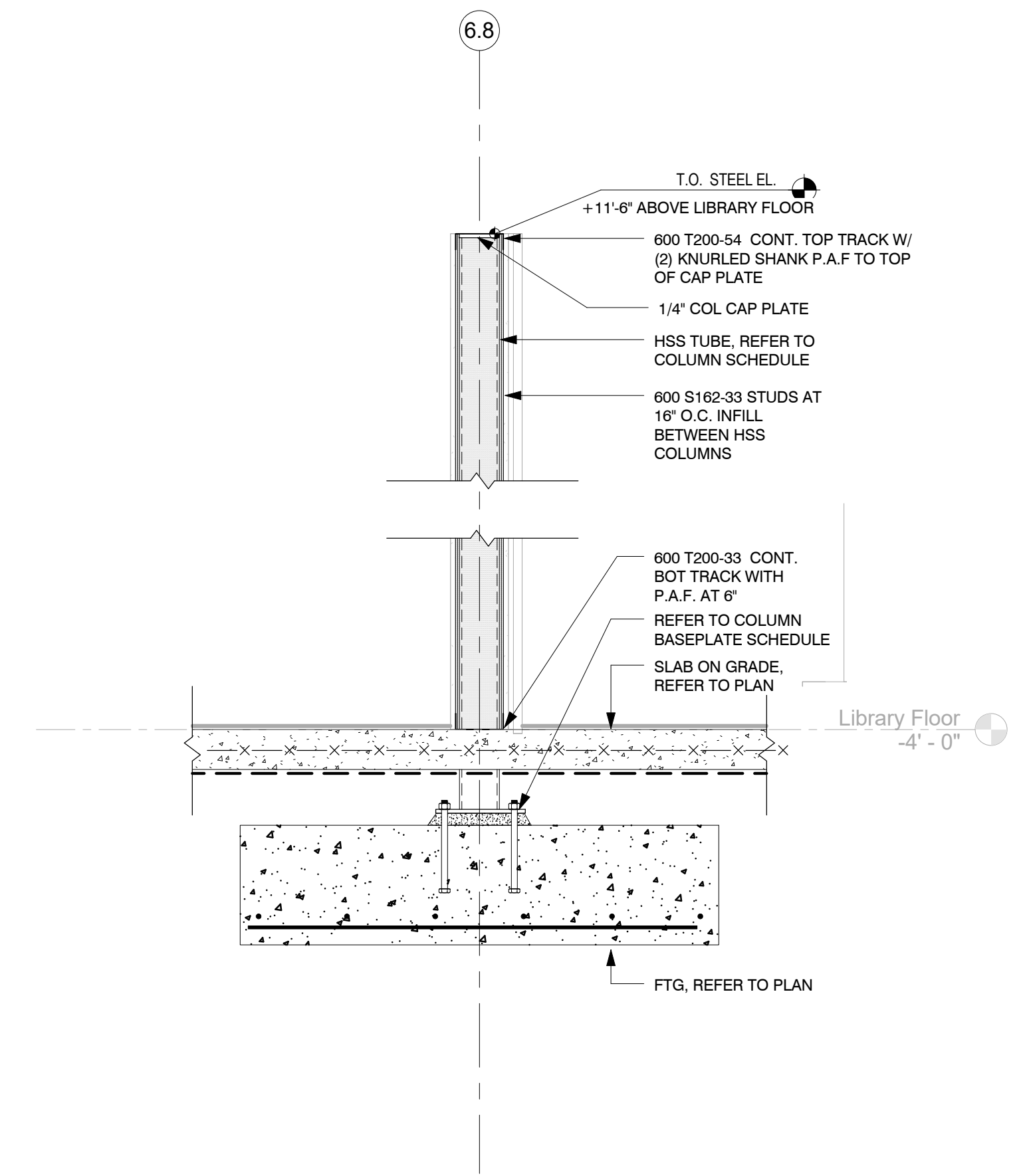
1 SECTION
3/4" = 1'-0"



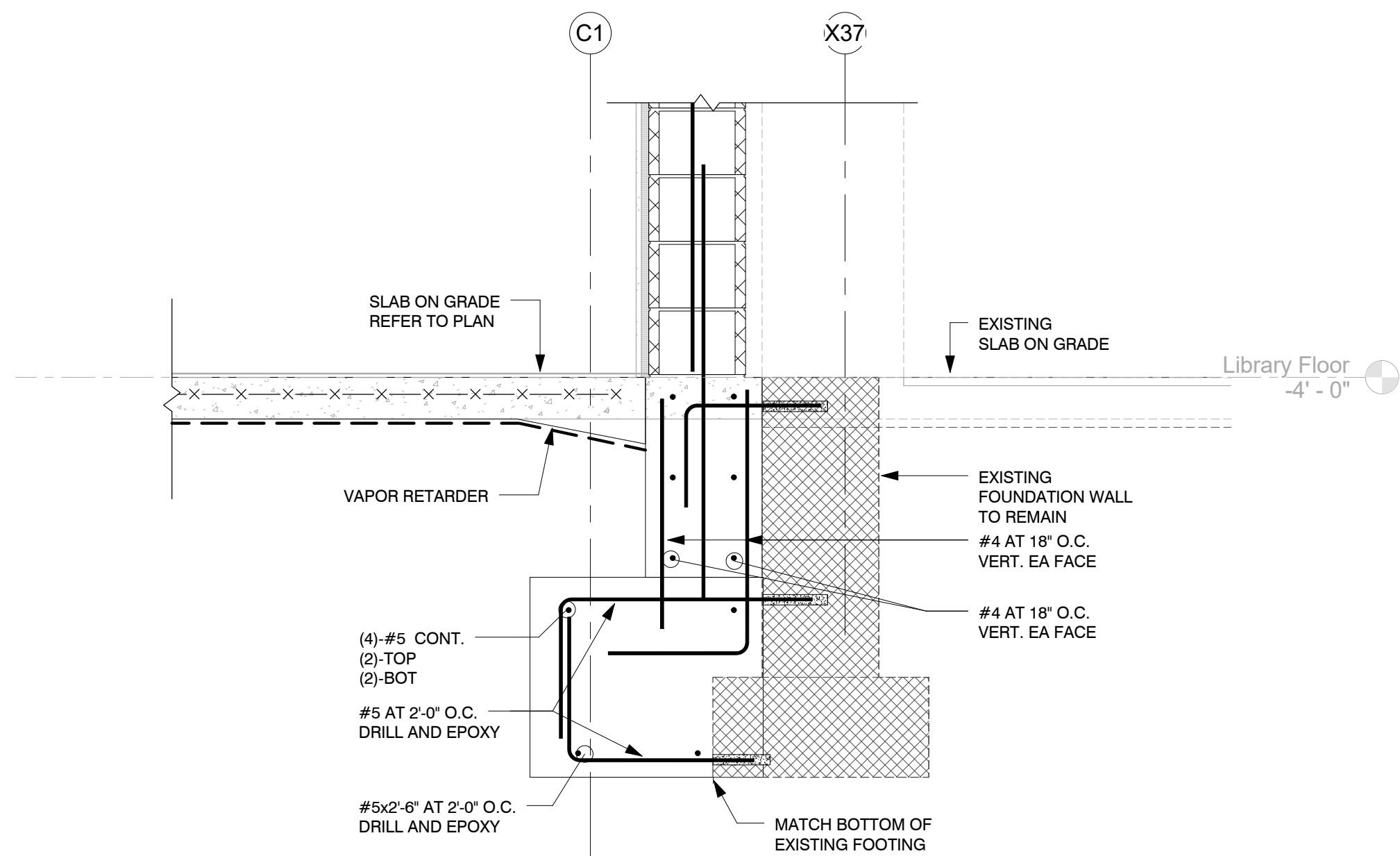
2 SECTION
3/4" = 1'-0"



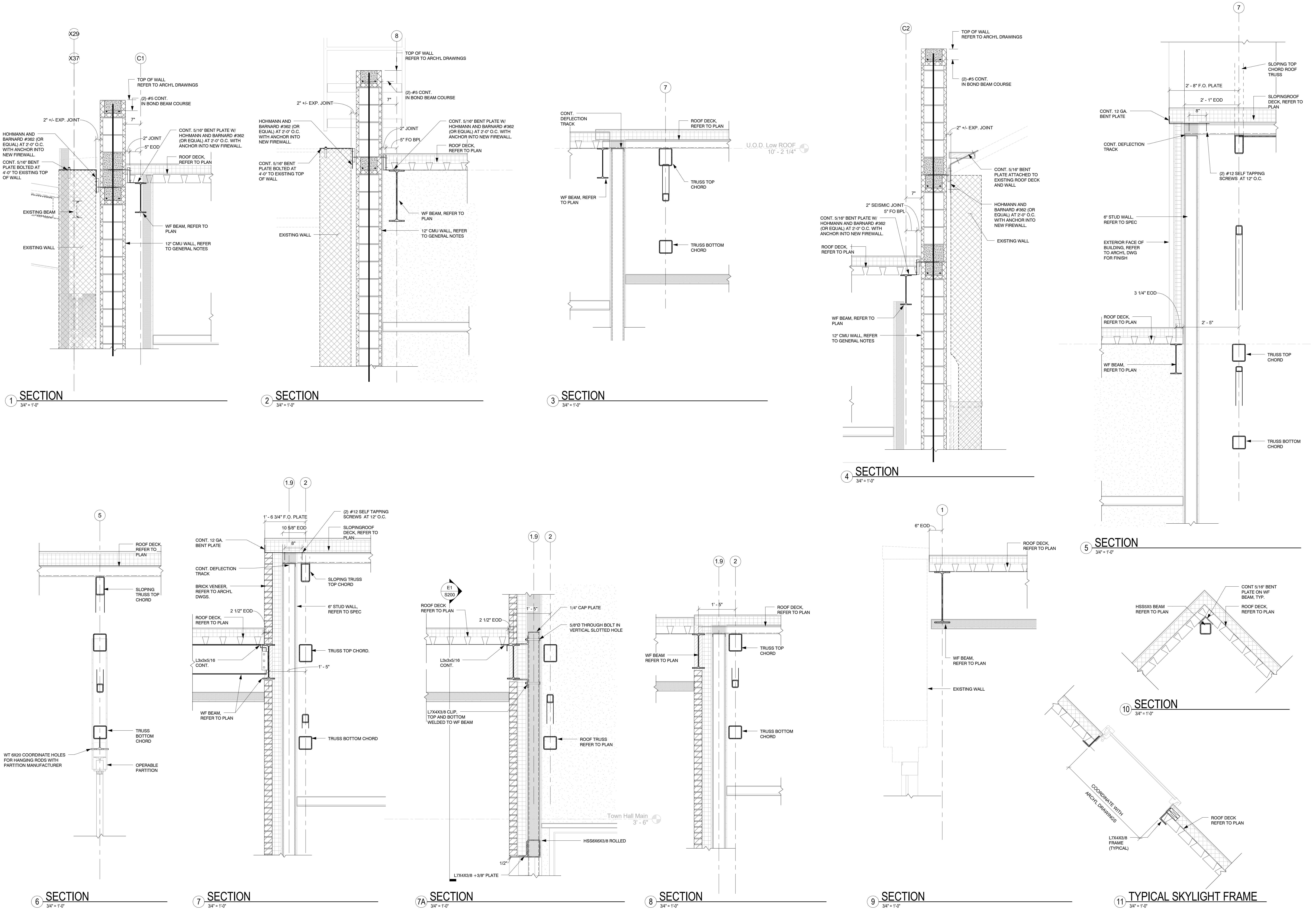
3 SECTION
3/4" = 1'-0"



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



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



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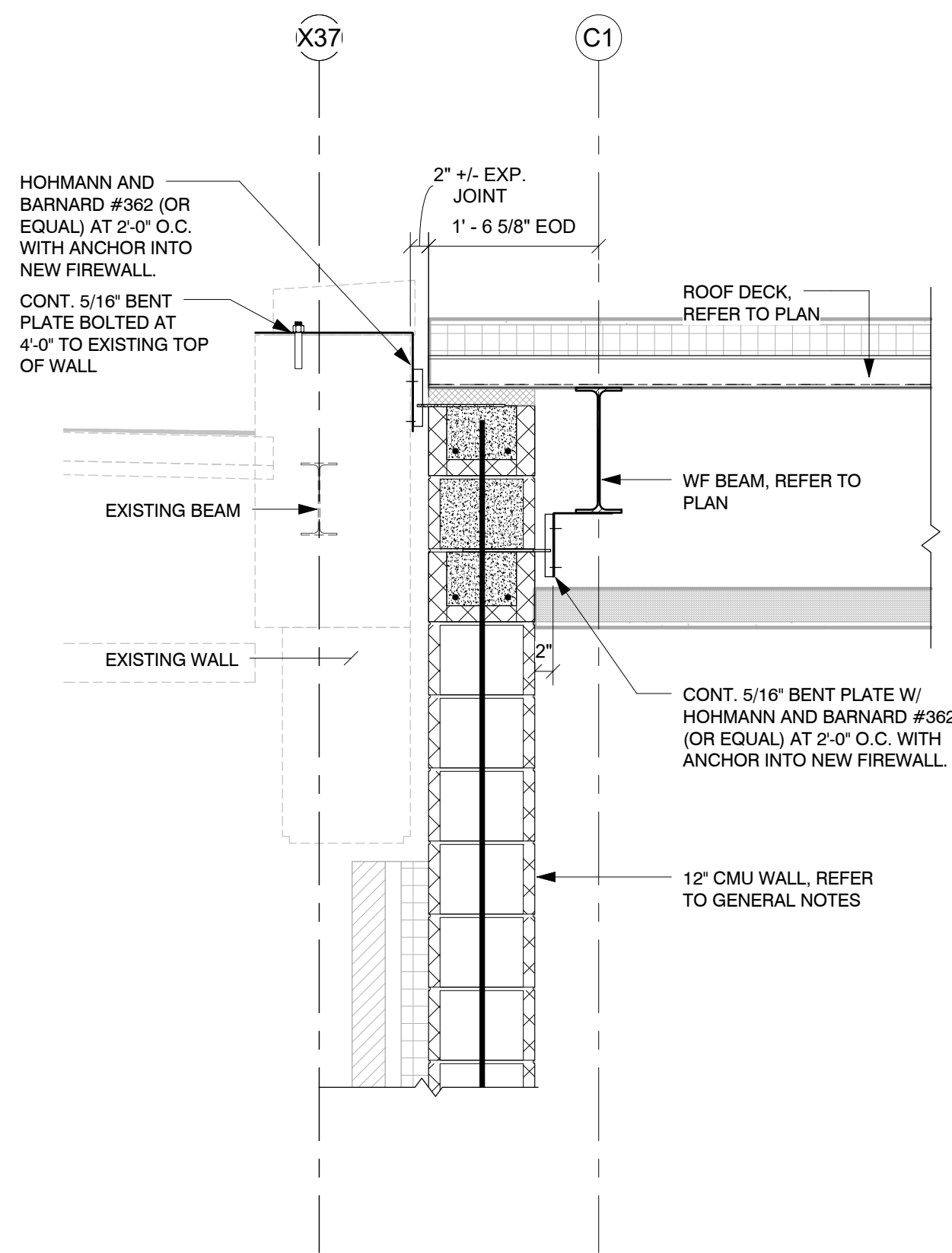
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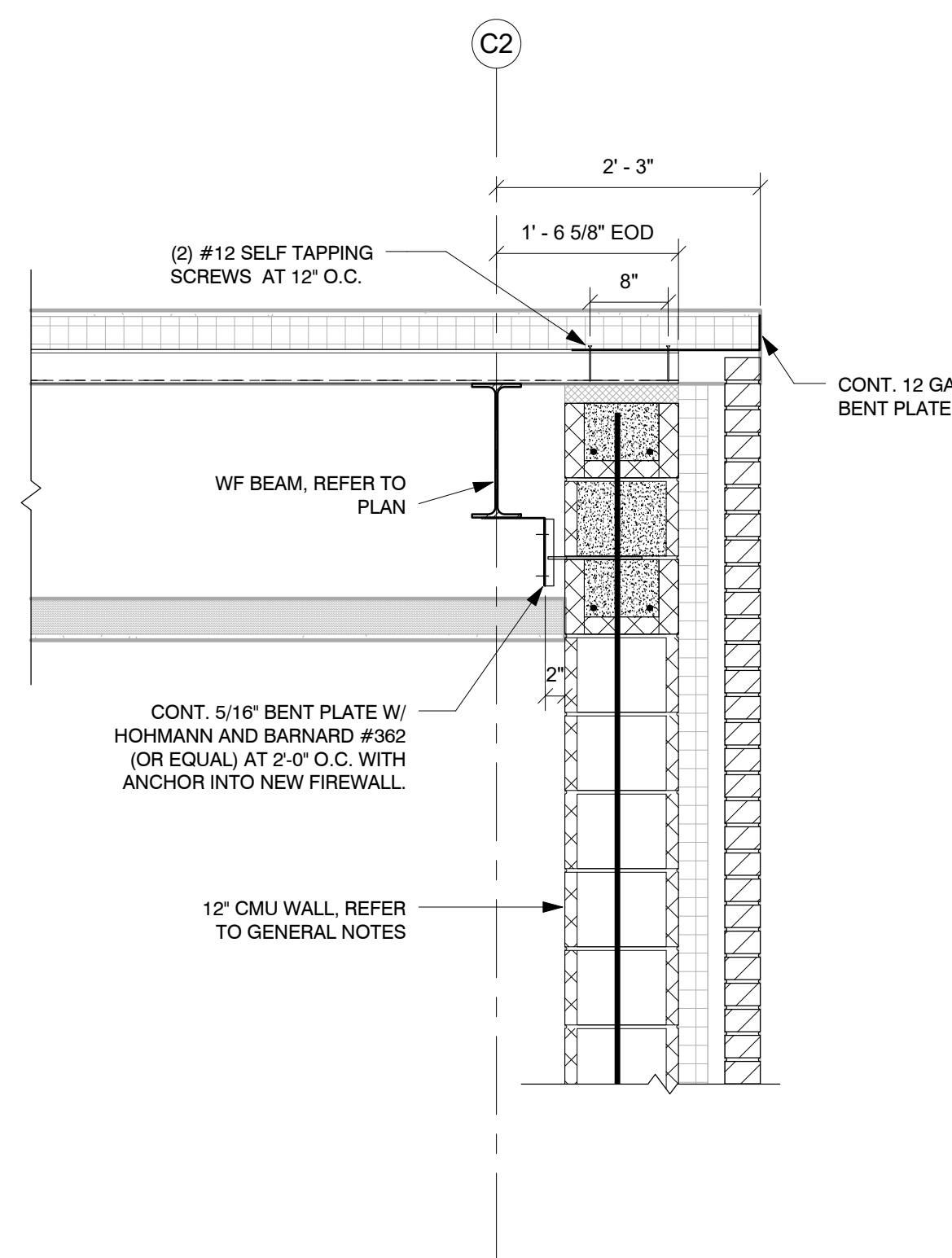
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Drawing Title:
ROOF SECTIONS

Date:
7/17/18
Scale:
3/4" = 1'-0"
Drawn By:
CH
Project Number:
17.025
Drawing Number:
S400



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



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

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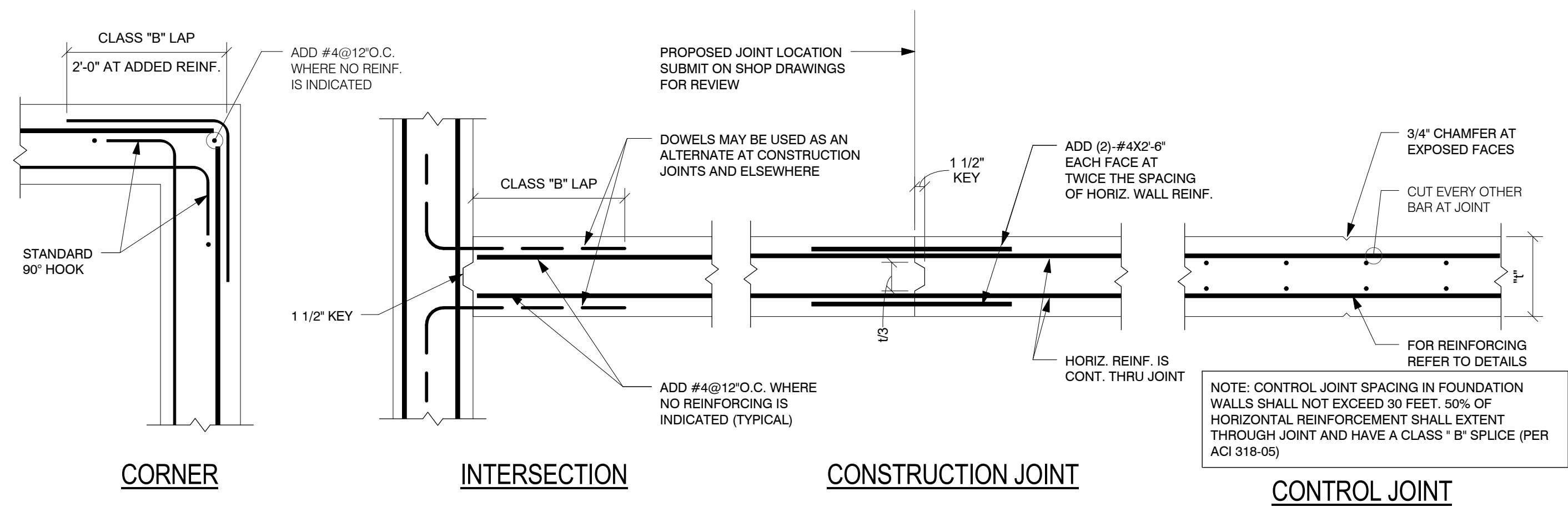
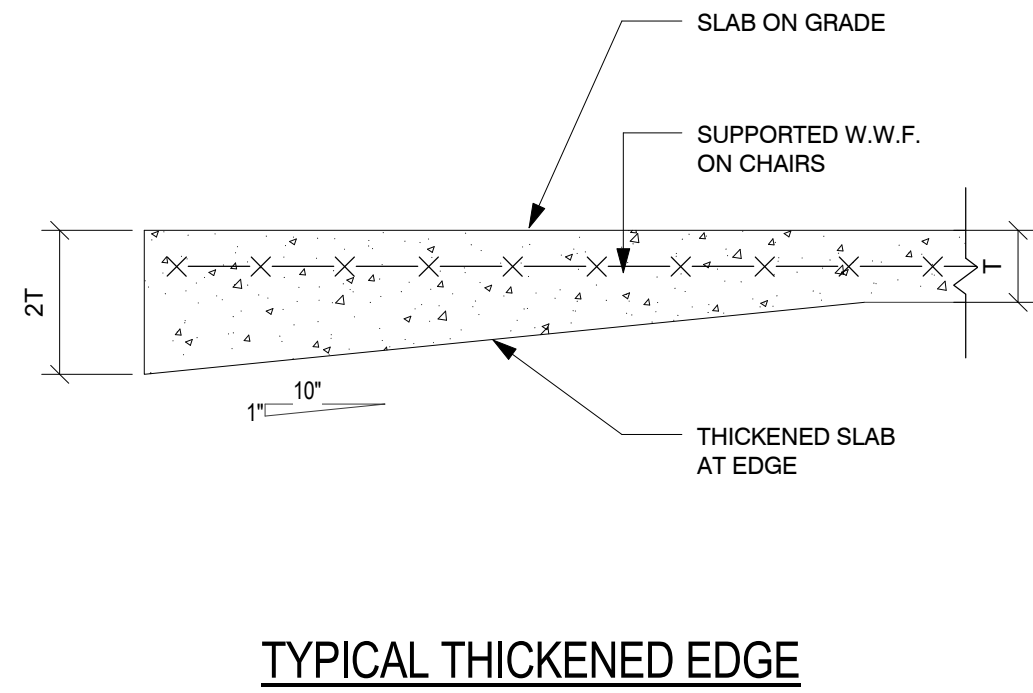
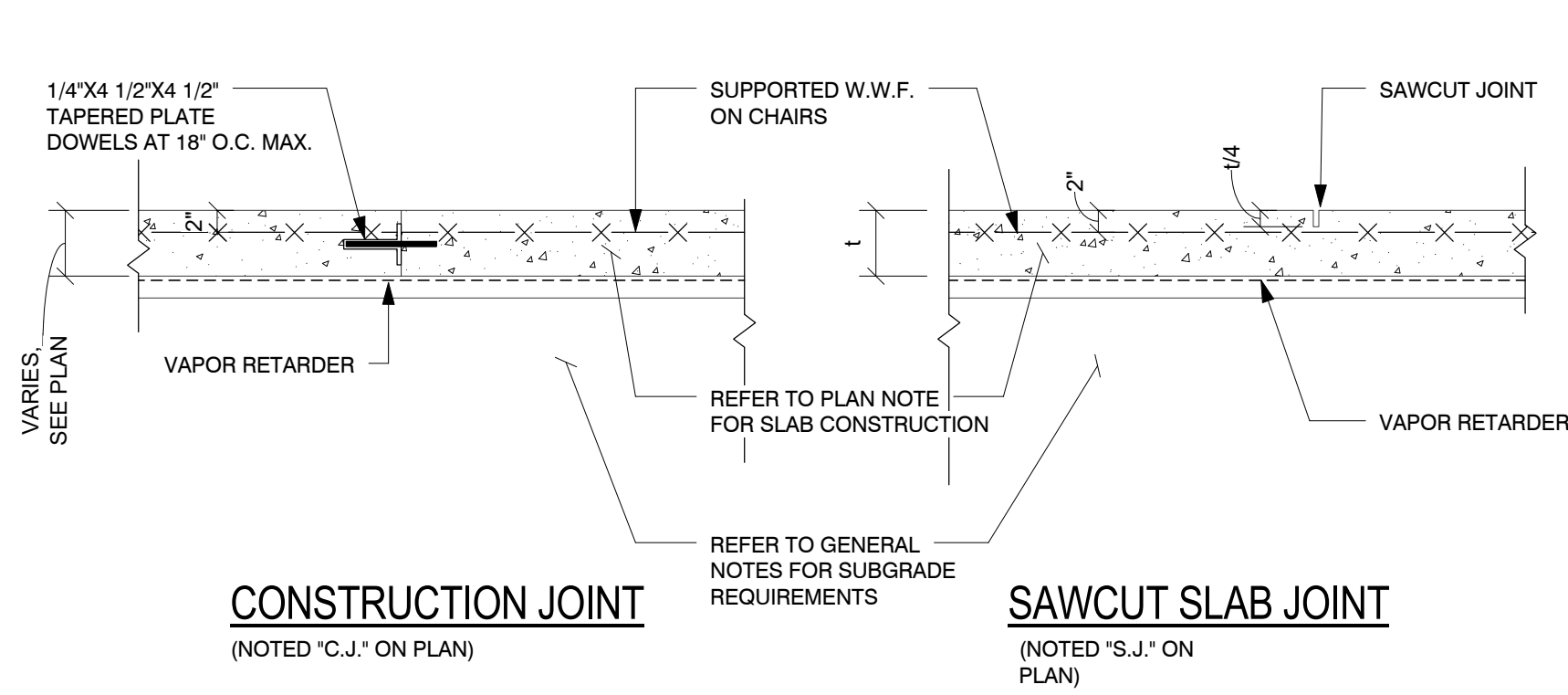
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Revision:	Description:	Date:	Revised By:

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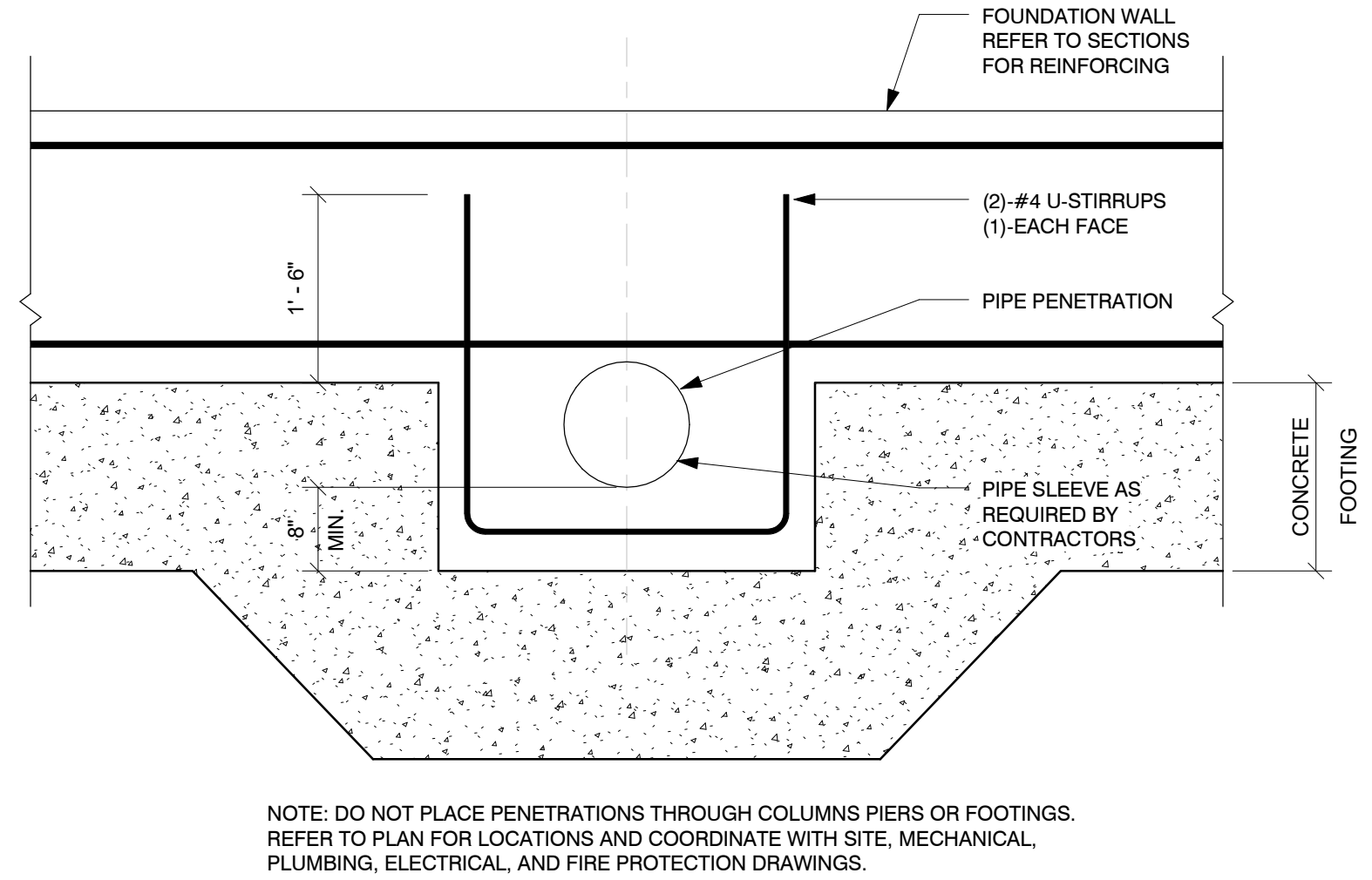
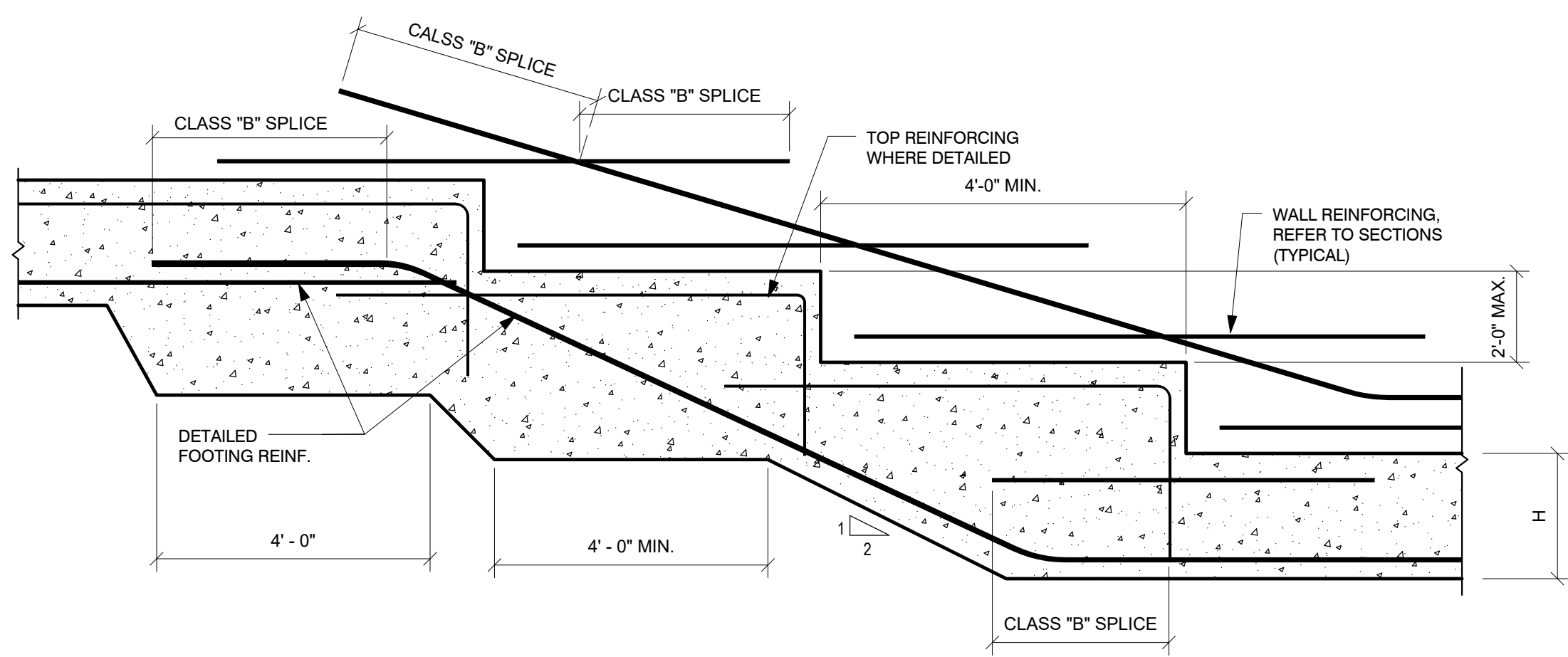
Drawing Title:
ROOF SECTIONS

Date: 7/17/18
Scale: 3/4" = 1'-0"
Drawn By: CH
Project Number: 17.025
Drawing Number: S401



1 TYPICAL SLAB ON GRADE DETAILS
3/4" = 1'-0"

2 TYPICAL WALL REINFORCING DETAIL
3/4" = 1'-0"

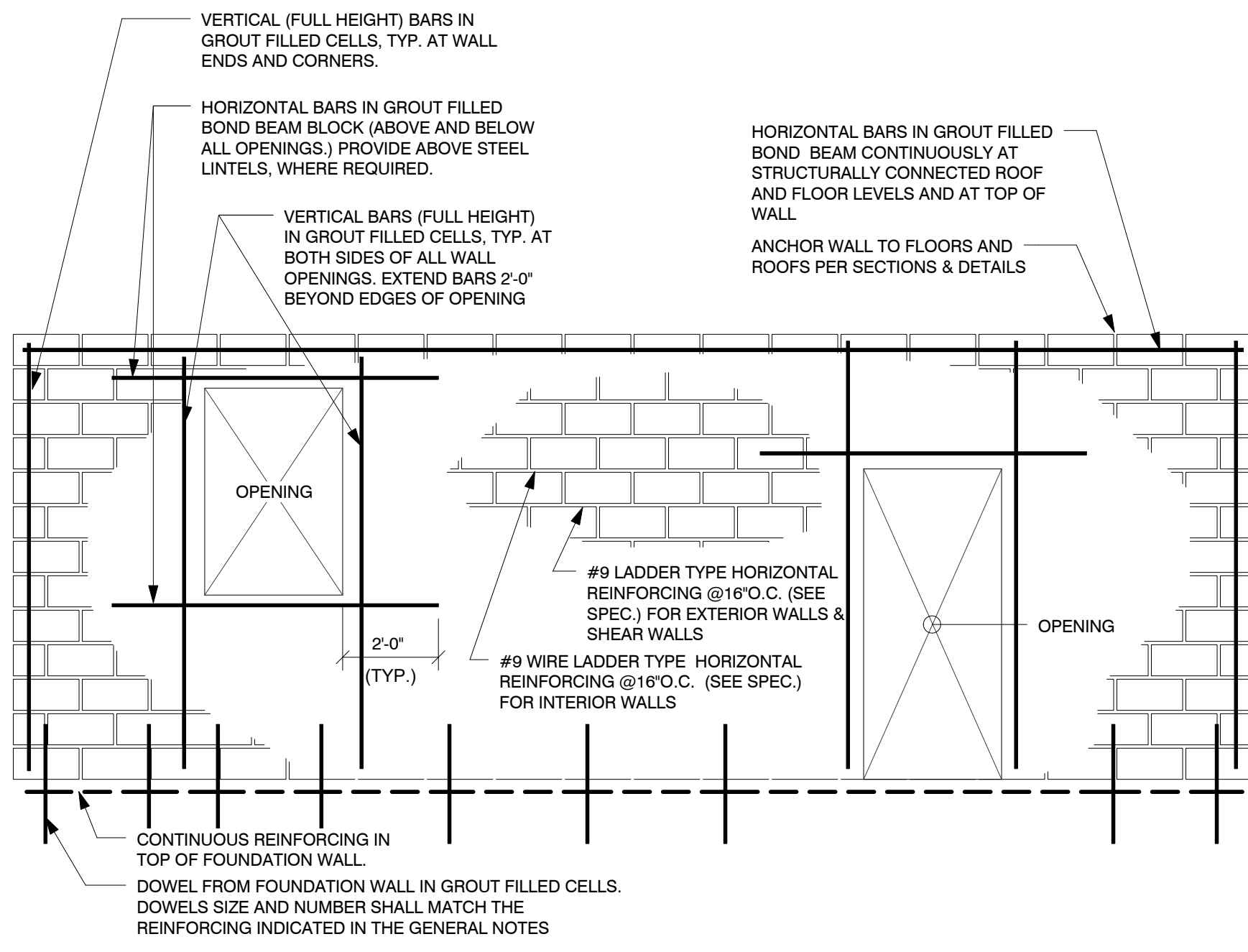


4 TYPICAL DETAIL OF PIPE PENETRATIONS THRU FOUNDATION WALLS
3/4" = 1'-0"

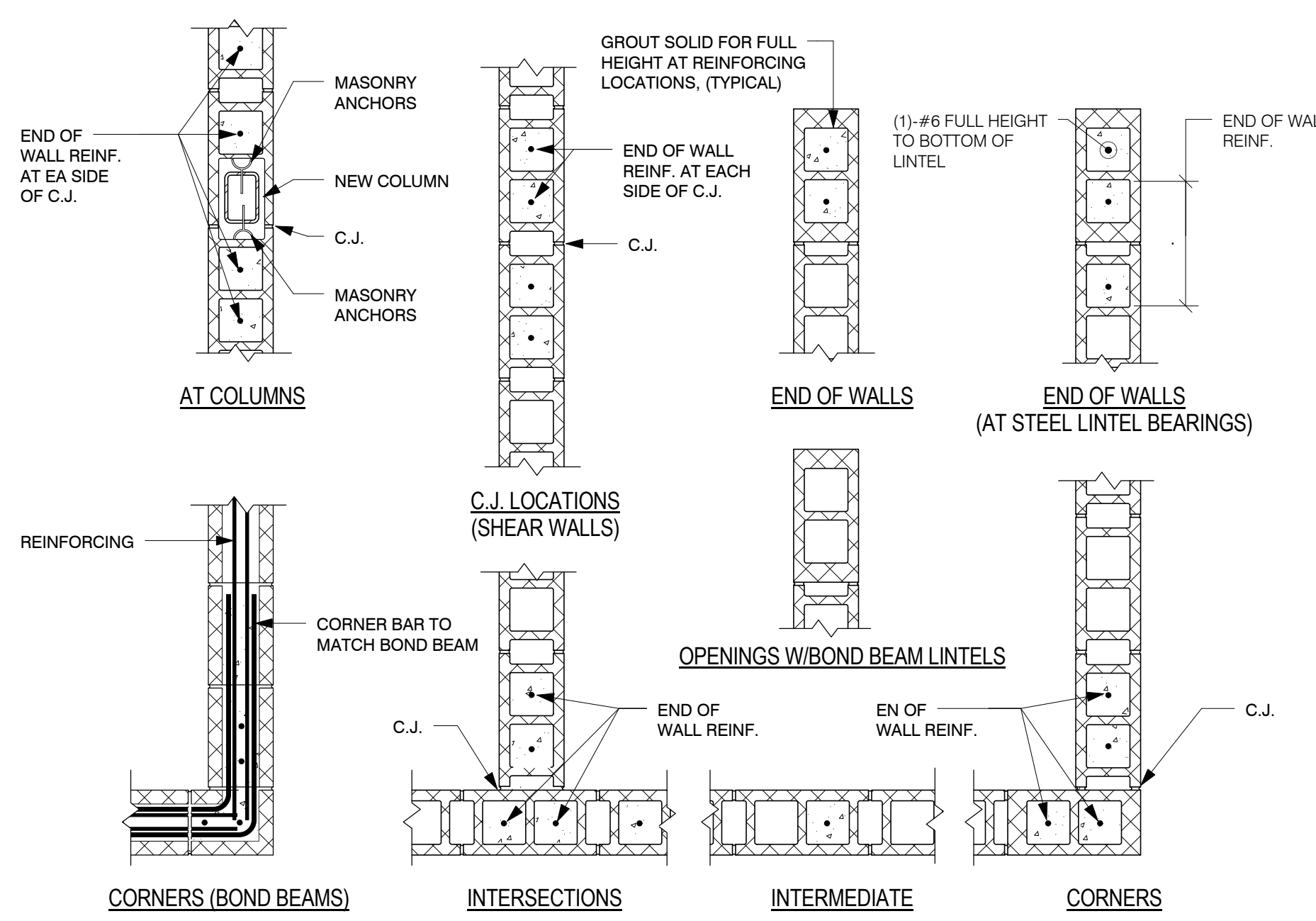
MASONRY LINTEL SCHEDULE			
MARK	CMU	OPENING WIDTH	LINTEL
	12" BLOCK	4'-0" TO 12'-0"	(2) #5 CONT. TOP AND BOTTOM 1'-4"
	12" BLOCK	UP TO 4'-0"	(2) #5 CONT. 5a
	8" BLOCK	UP TO 4'-0"	(2) #5 CONT. 5a
	8" BLOCK	4'-0" TO 10'-0"	(2) #5 CONT. TOP AND BOTTOM 1'-4"
	6" BLOCK	UP TO 6'-0"	(1) #5 CONT. 5a
	4" MASONRY	UP TO 6'-0"	L5X3 1/2X5/16 (4" MIN. BEARING)
	4" MASONRY	6'-0" TO 10'-0"	L7X4X3/8 (4" MIN. BEARING)

NOTE:
1. PROVIDE LINTELS WHERE NEEDED. NOT SHOWN ON THE DRAWINGS
2. ALL EXTERIOR STEEL SHALL BE HOT DIPPED GALVANIZED
3. COORDINATE ALL OPENINGS WITH ARCHT & MECH DRAWINGS
4. GROUT ALL JAMBS SOLID PER TYPICAL CMU WALL REINF. DETAILS.

CMU LINTEL SCHEDULE
3/4" = 1'-0"

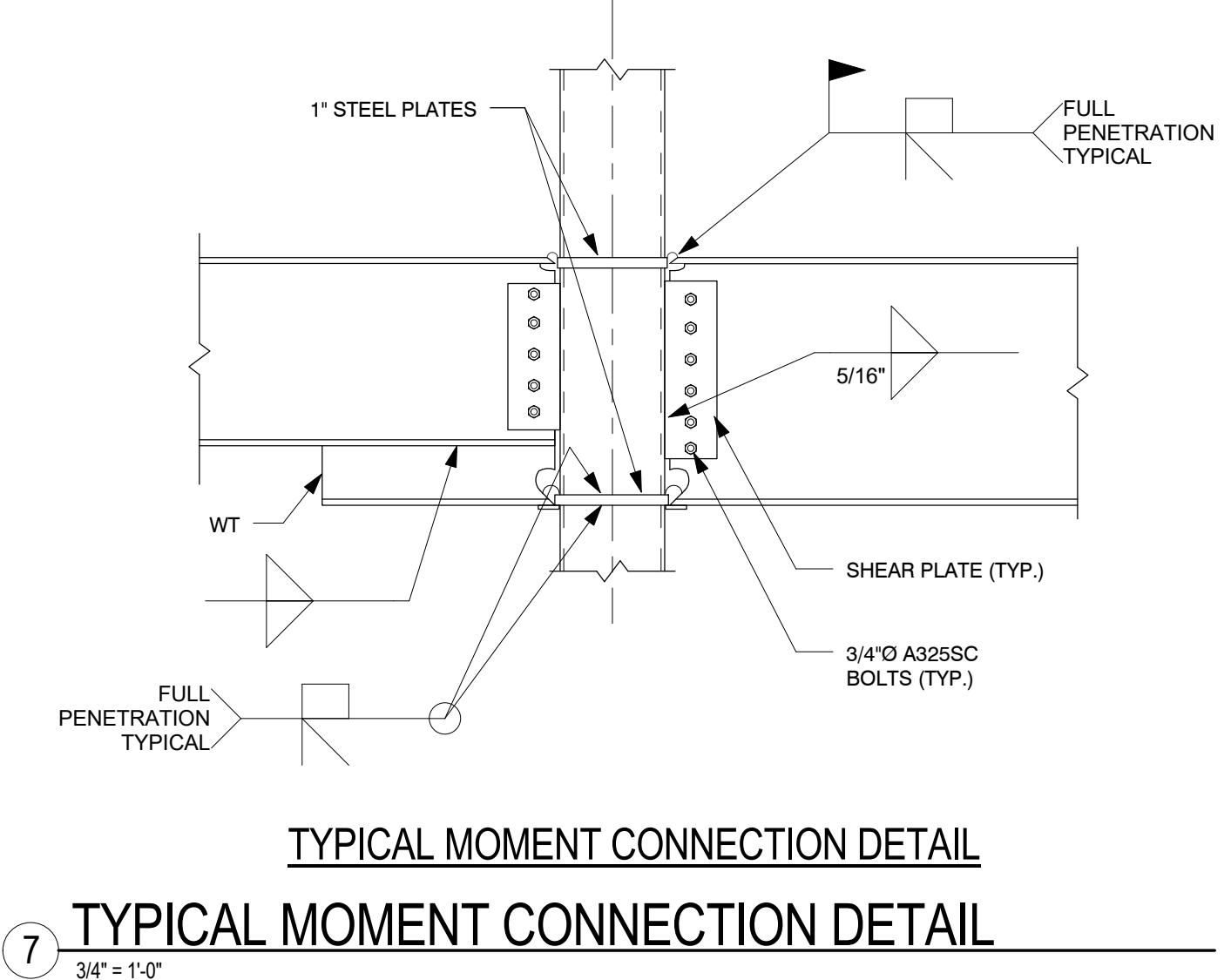


5 TYPICAL CMU WALL REINFORCEMENT DETAIL
3/4" = 1'-0"

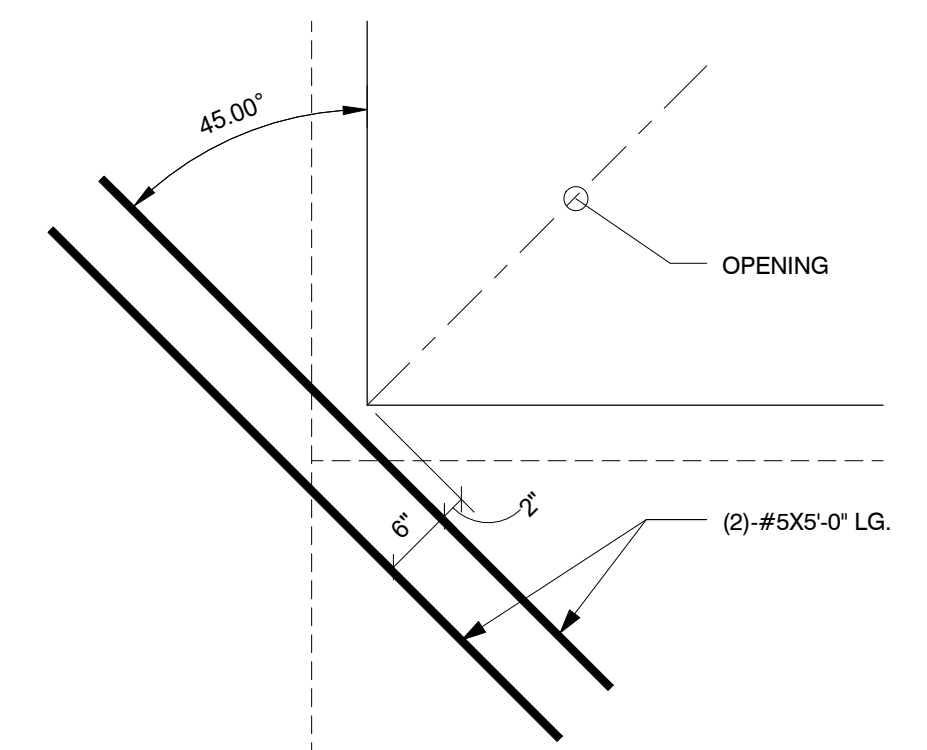


NOTES:
1. REINFORCING DETAILS APPLY TO ALL CMU WALLS. FOR ACTUAL REINFORCING REQUIREMENTS, REFER TO GENERAL NOTES ON DRAWINGS
2. PROVIDE DOWELS FROM CONCRETE FOUNDATIONS TO CMU WALL ABOVE. SIZE AND NUMBER TO MATCH WALL REINFORCING.

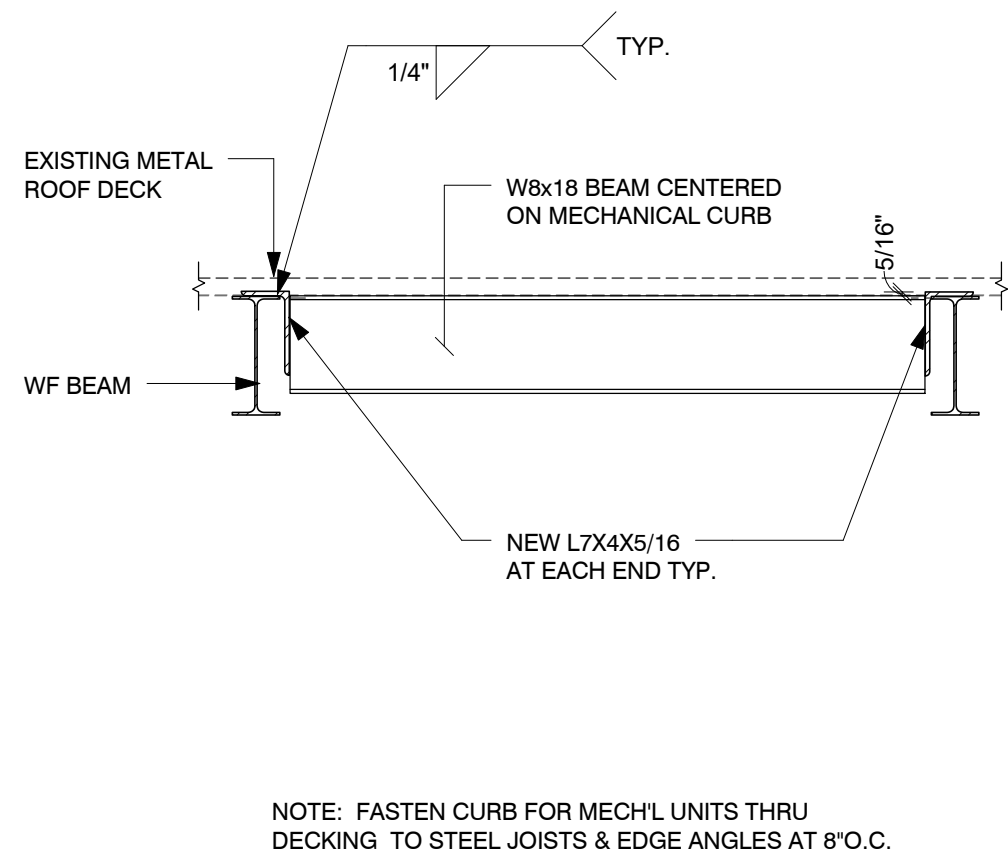
8 TYPICAL CMU REINFORCING PLAN DETAILS
3/4" = 1'-0"



7 TYPICAL MOMENT CONNECTION DETAIL
3/4" = 1'-0"




6 TYPICAL AT REENTRANT SLAB CORNERS
3/4" = 1'-0"



9 TYPICAL ROOF TOP UNIT SUPPORT
3/4" = 1'-0"



GENERAL NOTES	SLAB ON GRADE	STRUCTURAL STEEL	ACOUSTICAL ROOF DECK CEILING SYSTEM	COLD FORMED LIGHT GAGE METAL FRAMING
GENERAL GOVERNING CODE: 2016 CONNECTICUT STATE BUILDING CODE, (2012 INTERNATIONAL BUILDING CODE). DESIGN LOADS: TOWN OF CROMWELL MINIMUM LIVE LOADS: LIBRARY: 100PSF ROOF LOAD: ROOF SNOW LOAD CRITERIA: Pg = 30 PSF, Ce = 0.9 and Is = 1.0; C=1.0 WITH INCREASES FOR SNOW DRIFTING, UNBALANCES AND SLIDING PER SECTION 1608 (2012 IBC). MINIMUM ROOF LIVE LOAD = 30 PSF ROOF DEAD LOAD = 20 PSF WIND LOAD CRITERIA: SECTION 1609 (2012 IBC) ULTIMATE WIND SPEED (V) = 125 MPH NOMINAL DESIGN WIND VASD = 97 MPH RISK CATEGORY II, n = 1.0 EXPOSURE CLASSIFICATION "B". MINIMUM WIND LOAD ON PRIMARY STRUCTURE = 15 PSF WIND LOADS ON SECONDARY ELEMENTS SHALL CONFORM WITH ASCE 7-10. COMPONENT AND CLADDING DESIGN WIND PRESSURES: ROOF ZONE 1: POSITIVE: 11.45 PSF NEGATIVE: -28.15 PSF ROOF ZONE 2: POSITIVE: 11.45 PSF NEGATIVE: -47.25 PSF ROOF ZONE 3: POSITIVE: 11.45 PSF NEGATIVE: -71.1 PSF WALL ZONE 4: POSITIVE: 28.15 PSF NEGATIVE: -30.55 PSF WALL ZONE 5: POSITIVE: 28.15 PSF NEGATIVE: -37.70 PSF ROOF OVERHANG ZONE 2: 43.80 PSF ROOF OVERHANG ZONE 3: 72.10 PSF DESIGN WIND PRESSURE IS COMPUTED BASED ON ULTIMATE WIND SPEED USING 10 SQUARE FOOT OF AREA. SEISMIC LOAD CRITERIA: AS PER SECTION 1613 (2012 IBC) WITH: RISK CATEGORY = II SEISMIC IMPORTANCE FACTOR, I = 1.0 Sa = 0.169, S1 = 0.0639 SOIL SITE CLASS = D SPECTRAL RESPONSE COEFFICIENTS, Sds = 0.1930, Sd1 = 0.101g SEISMIC DESIGN CATEGORY B BASIC SEISMIC FORCE-RESISTING SYSTEM: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE DESIGN BASE SHEAR, V = 0.064W RESPONSE MODIFICATION FACTOR, R = 3.0 ANALYSIS PROCEDURE (USED: SAMPLED ANALYSIS ASSUMED BEARING PRESSURE ON UNDISTURBED SOIL 4000 PSF ASSUMED BEARING PRESSURE ON COMPACTED FILL: 4000 PSF	1. ALL SLABS ON GRADE SHALL BEAR ON A 15 MIL, CLASS A, VAPOR RETARDER OVER A MINIMUM OF 4 INCHES OF 3/4" COMPACTED PROCESSED AGGREGATE FILL OVER A MINIMUM OF 6 INCHES OF COMPACTED GRAVEL FILL. ALL JOINTS OF THE VAPOR RETARDER SHALL BE SEALED WITH TAPE, TURN THE VAPOR BARRIER UP AT ALL TERMINATIONS AGAINST FOUNDATION WALLS AND SEAL JOINT BY CONTINUOUSLY TAPPING. IF FILL MATERIALS ARE ENCOUNTERED SLAB SUBGRADE ELEVATIONS, ALL FILL MATERIAL SHALL BE EXCAVATED AND DISPOSED OF LEGALLY OFF-SITE. THE OVER EXCAVATION SHALL BE BACKFILLED WITH CONTROLLED COMPACTED FILL TO THE BOTTOM OF THE SLAB SUBGRADE AS REQUIRED. ALL CONTROLLED COMPACTED BACKFILL UNDER SLABS WITHIN THE FOOTPRINT OF THE STRUCTURE SHALL BE COMPACTED TO 95% OF THE MODIFIED OPTIMUM DENSITY. EXISTING ON-SITE EXCAVATED MATERIALS SHALL NOT BE ACCEPTABLE BACKFILL MATERIAL BELOW BUILDING SLABS ON GRADE UNLESS APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD. CONTROL JOINTS ARE TO BE CREATED IN SLABS ON GRADE. JOINTS SHALL BE SAW CUT 1/8" WIDE AND TO A DEPTH EQUAL TO 1/4 OF THE SLAB THICKNESS. LOCATE JOINTS A MAXIMUM OF 15'-0" ON CENTER IN EACH DIRECTION. IN ADDITION TO THOSE LOCATIONS INDICATED ON PLAN. CONSTRUCTION JOINTS AS REQUIRED SHALL BE KEVED AND LOCATED AT INTERVALS OF A MAXIMUM OF 75 FEET ON CENTER. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND SIZE OF DEPRESSED AREAS IN CONCRETE SLABS AND FOR CONCRETE PADS. MAINTAIN FULL SLAB THICKNESS IN DEPRESSED AREAS, UNLESS OTHERWISE SHOWN. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL MASONRY WALLS FOR WHICH NO FOOTING IS SHOWN. SEE DETAILS FOR SLAB REINFORCING REQUIREMENTS AT ALL WALL LOCATIONS. CONTRACTOR SHALL CONSOLIDATE ALL SLAB CONCRETE USING VIBRATIONAL METHODS IN CONFORMANCE WITH ACI 309, AGUIDE FOR CONSOLIDATION OF CONCRETE.	1. DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO CURRENT AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATION. WELDING SHALL CONFORM TO THE CODE FOR "ARC AND GAS WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY. ALL LOOSE BEAM LINTELS SHALL HAVE 8" MINIMUM BEARING. SEE ARCHITECTURAL JAMB DETAILS FOR LENGTHS. FOR MISCELLANEOUS STEEL REFER TO ARCHITECTURAL DRAWINGS. ALL WELDING SHALL BE DONE BY A CERTIFIED WELDER IN ACCORDANCE WITH A W.S. STANDARDS. PROVIDE LEVELING NUTS FOR ALL COLUMN BASE PLATES WITH FOUR (4) ANCHOR BOLTS AND PROVIDE 1 1/2" MINIMUM 5000 PSI NON-SHRINK GROUT. PROVIDE DOUBLE NUTS AND WASHER AT THE BOTTOM OF THE ANCHOR BOLT FOR EMBED IN CONCRETE. CONNECTIONS: CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE A.I.S.C. MANUAL OF STEEL CONSTRUCTION. CONNECTIONS SHALL BE PROVIDED TO CONFORM TO THE REQUIREMENTS OF TYPE 2 CONSTRUCTION UNLESS OTHERWISE DETAILED. CONNECTIONS SHALL BE DESIGNED TO ACCOMMODATE THE REACTIONS RESULTING FROM THE ALLOWABLE UNIFORM LOAD BEAM TABLES, PER THE AISC MANUAL, FOR THE SPAN INDICATED ON THE DRAWINGS. MINIMUM CONNECTION ANGLE THICKNESS SHALL BE 5/16". USE DOUBLE FRAMING ANGLE CONNECTIONS. IN ADDITION TO PROVIDING ADEQUATE BOLTS TO ACCOMMODATE REACTIONS, THE FOLLOWING MINIMUM NUMBER OF BOLT ROWS SHALL BE USED: MEMBER DEPTH MINIMUM BOLT ROWS 10" or Less 2 12" to 14" 3 15" to 18" 4 21" to 24" 5 ALL DETAILS, FABRICATION AND ERECTION OF REINFORCING BARS MUST FOLLOW THE LATEST ACI CODE AND THE LATEST ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES. REINFORCING STEEL SHALL BE 60,000 PSI YIELD. NO TACK WELDING OF REINFORCING WILL BE PERMITTED. UNLESS NOTED OTHERWISE, ALL LAP SPLICES SHALL BE CLASS B, IN ACCORDANCE WITH ACI 318-02. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. WIRE MESH REINFORCEMENT MUST LAP ONE MESH SIZE AT SIDES AND ENDS AND BE WIRED TOGETHER. WELDED WIRE FABRIC SIDE LAPS SHALL BE STAGGERED TO AVOID FOUR MESH THICKNESS AT COINCIDING END LAP AND SIDE LAP LOCATION. NO CALCIUM CHLORIDE OR ADMIXTURES CONTAINING MORE THAN 0.1% CHLORIDE BY WEIGHT OF ADMIXTURE SHALL BE USED IN THE CONCRETE. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE AT LEAST 3/8" BELOW FINISHED GRADE. PRIOR TO PROCEEDING WITH FOOTING FORMWORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF BOTTOM OR EXTERIOR FOOTING ELEVATIONS WITH THE FINISH GRADES AND MAINTAINING THE 3/4" FROST PROTECTION. WHERE SUBSURFACE PIPING PASSES THROUGH FOUNDATION WALLS, THE TOP OF FOOTINGS SHALL BE AT LEAST 8" BELOW THE INVERT ELEVATION OF THE PIPING AND CONDUITS. COORDINATE ALL INVERTS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, SITE AND SITE UTILITY DRAWINGS. PIPING OR CONDUITS SHALL NOT PASS THROUGH COLUMNS OR PIERS. ALL HORIZONTAL STEEL SHOWN IN SECTIONS AND DETAILS SHALL BE CONTINUOUS, UNLESS OTHERWISE NOTED. ALL LAPS SHALL BE CLASS AB@ SPLICES IN ACCORDANCE WITH ACI 318. AT INTERSECTIONS OF REINFORCED CONCRETE WALLS, PROVIDE CORNER DOWELS OF SAME SIZE AND AT THE SAME SPACING AS THE SMALLER HORIZONTAL REINFORCING. DOWELS SHALL HAVE A CLASS B LAP WITH HORIZONTAL REINFORCING IN EACH DIRECTION. PROVIDE DRILLED AND EPOXYED DOWELS OF SAME SIZE TO MATCH NEW REINFORCING WHERE NEW CONSTRUCTION ABUTS EXISTING CONCRETE CONSTRUCTION. LENGTH SHALL BE THE REQUIRED EMBEDMENT DEPTH PER THE ANCHOR BOLT/EPXY MANUFACTURER PLUS A CLASS AB@ LAP SPLICE FOR THE SIZE OF BAR. PROVIDE CORROSION RESISTANT ACCESSORIES IN ALL EXPOSED CONSTRUCTION. ALL KEYS IN CONCRETE WALLS SHALL BE 2 X 4 UNLESS NOTED OTHERWISE. CONCRETE PIERS: PLACE CONCRETE PIERS AND WALLS TOGETHER. SET PIER REINFORCING AND SET WALL REINFORCING THROUGH PIER VERTICAL BARS. PROVIDE DOWELS WITH STANDARD HOOK FROM FOOTING AT ALL PIERS. SIZE AND QUANTITY OF DOWELS TO MATCH VERTICAL PIER REINFORCING. PROVIDE CLASS "B" SPLICE. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, SITE, SITE UTILITY AND EQUIPMENT DRAWINGS FOR CONCRETE PADS, SLEEVES, OPENINGS, RECESSES, AND BUILT-IN WORK IN CONCRETE ELEMENTS. THE CONTRACTOR SHALL FURNISH, LOCATE AND INSTALL ALL ACCESSORIES FOR PROPER ANCHORAGE OF WOOD AND METAL FRAMING, WOOD BLOCKING, BRICK WORK AND MASONRY UNITS. HE SHALL BE SOLELY RESPONSIBLE FOR FURNISHING, LOCATING AND ENSURING PROPER QUANTITY OF ALL FASTENING DEVICES. ALL CONCRETE TO REMAIN EXPOSED TO VIEW SHALL RECEIVE A SMOOTH RUBBED FINISH (SEE SPECIFICATIONS). ALL CONCRETE CORNERS WITH BOTH SIDES EXPOSED TO VIEW SHALL BE SQUARE UNLESS OTHERWISE SHOWN OR NOTED. THE EDGE SHALL BE RUBBED, PRODUCING A SMOOTH, DENSE SURFACE WITHOUT PITS OR IRREGULARITIES. PROVIDE CONTINUOUS VERTICAL DOVETAIL SLOTS AT 16 INCH CENTERS HORIZONTALLY FOR ALL CONCRETE WALLS ABUTTING A MASONRY WALL OR MASONRY VENEER, UNLESS OTHERWISE NOTED. PROVIDE CLEARANCE FROM EDGE OF REINFORCING TO EDGE OF CONCRETE AS FOLLOWS: FOOTINGS (AGAINST EARTH) 3" 2" COLUMNS AND PIERS (VERTICAL REINFORCING) 3/4" 2" WALLS, INTERIOR FACE 3/4" 2" WALLS, EXTERIOR FACE (8" AND SMALLER) 1 1/2" WALLS, EXTERIOR FACE (8" AND LARGER) 3/4" 2" SLABS (INTERIOR) 3/4" 2" SLABS (EXTERIOR) 1 1/2" SLABS ON GRADE (W.W.F.) 13 X 1/8 THK. FROM TOP SURFACE NO SLEEVES, HOLES OR INSERTS MUST BE PLACED IN SLABS WITHIN 2'-0" OF THE EDGE OF COLUMNS, OR ANYWHERE IN BEAMS, COLUMNS OR JOISTS WITHOUT APPROVAL OF THE ARCHITECT. JOISTS NOT INDICATED ON THE DRAWINGS SHALL BE MADE SO AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE. PROVIDE THE FOLLOWING AT OPENINGS IN ALL CONCRETE WALLS AND FRAMED SLABS, UNLESS OTHERWISE INDICATED: 1-45 AT EACH FACE ON EACH SIDE OF OPENING, EXTENDING 2'-0" BEYOND OPENING. 1-45 X 4'-0" LONG AT EACH FACE DIAGONALLY AT EACH CORNER. REINFORCING STEEL SHOP DRAWINGS SHALL INDICATE THE SEQUENCE IN WHICH LAYERS OF CROSSING REINFORCING SHOULD BE PLACED, IN ORDER TO PRODUCE THE CORRECT OUTERMOST LAYER AS INDICATED ON THE DRAWINGS. SHOP DRAWINGS SHALL INDICATE LOCATIONS OF ALL WALL CONTROL AND CONSTRUCTION JOINTS. THE TYPE OF EPOXY ADHESIVE USED FOR ANCHORING REINFORCING AND ANCHOR BOLTS TO CONCRETE IS BASED ON LOAD VALUES WITH THE USE OF HILTI HIT-HY200 ADHESIVE AS MANUFACTURED BY HILTI CORPORATION. ALL PROPOSED SUBSTITUTES SHALL HAVE LOAD VALUES EQUAL TO OR GREATER THAN THE VALUES PROVIDED BY HILTI CORPORATION FOR THE SIZE OF ANCHOR BOLTS OR REINFORCING INDICATED ON THE CONTRACT DRAWINGS.	1. MATERIALS: ACOUSTIC ROOF DECK SHALL HAVE CONTINUOUS DOVETAIL SHAPED RIBS SPACED 6" ON CENTER AND FORMED TO THE FOLLOWING NOMINAL DIMENSIONS: 2" DEPTH, 9/16" RIB OPENING AT BOTTOM AND 1 1/2" RIB WIDTH AT TOP. ACOUSTIC ROOF DECK SHALL BE GALVANIZED AND PRIMED AND OF DEPTH AND GAGE INDICATED ON THE DRAWINGS. METAL ROOF DECK SHALL HAVE FULL DEPTH POSITIVE REGISTERING SIDE LAPS THAT CAN FASTENED BY SCREWS. ACOUSTIC METAL ROOF DECK SHALL BE FURNISHED IN SHEET LENGTHS SUFFICIENT TO EXTEND OVER 4 SUPPORTS (3 SPANS). ATTACHMENT: ACOUSTIC ROOF DECK SHALL BE FASTENED TO THE SUPPORTING STEEL WITH ATTACHMENTS EQUIVALENT TO HILTI PN (X-PIN) 18-18 OR EQUAL) WITH A FASTENING PATTERN OF 24". ADJACENT DECK UNITS SHALL BE FASTENED TOGETHER AT SIDE LAPS WITH #12 SCREWS SUCH THAT THE CONNECTION SPACING DOES NOT EXCEED 24" ON CENTER, WITH A MINIMUM OF (4) SCREWS PER SPAN. WELDING OF THE ROOF DECK IS PROHIBITED. CONCRETE MASONRY MATERIALS: HOLLOW LOAD BEARING UNITS: ASTM C 90 MORTAR (TYPE S) ASTM C 270 COMPRESSIVE STRENGTH OF MASONRY: f _m = 1500 PSI) GROUT FOR REINFORCED MASONRY: ASTM C 476 COMPRESSIVE STRENGTH AT 28 DAYS = 2000 PSI) GROUT FOR REINFORCED MASONRY: ASTM C 476 SOLID LOAD BEARING UNITS (GRADE N-I) ASTM C 145 CONCRETE BRICK (GRADE N-I) ASTM C 55 WALLS INDICATED ON STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS FOR LOCATION, THICKNESS AND COMPOSITION OF MASONRY WALLS. ALL MASONRY WALLS SHALL CONTAIN THE FOLLOWING REINFORCING: 1-45 VERTICAL BAR AT 32" ON CENTER. 2-45 VERTICAL BARS AT BOTH SIDES OF DOOR, WINDOW AND MECHANICAL OPENINGS. 2-45 HORIZONTAL BAR MINIMUM ABOVE AND BELOW ALL WINDOW AND MECHANICAL OPENINGS AND ABOVE ALL DOOR OPENINGS. PROVIDE ADDITIONAL BARS ABOVE DOORS, WINDOWS AND MECHANICAL OPENINGS AS REQUIRED IN ACCORDANCE WITH LINTEL SCHEDULE ON ARCHITECTURAL DRAWINGS. 2-45 HORIZONTAL BAR AT TOP OF ALL WALLS, AND AT BOND BEAMS CONNECTED TO FLOORS AND ROOFS, UNLESS OTHERWISE INDICATED. 2-45 VERTICAL BARS AT ENDS OF ALL WALLS, AND EACH SIDE OF CONTROL JOINTS. STANDARD LAURIE TYPE DESIGN DUROWAL HORIZONTAL REINFORCING @ 16" O.C. VERTICAL. SIDE WIRE SIZE SHALL BE #9 GAGE WIRE. PROVIDE VERTICAL DOWELS FROM CONCRETE WALLS INTO ALL CMU WALLS. SIZE AND SPACING OF THE DOWELS SHALL MATCH THE VERTICAL REINFORCING AS SPECIFIED IN THESE GENERAL NOTES, UNLESS OTHERWISE NOTED ON THE DRAWINGS. DOWEL LENGTHS SHALL BE THE REQUIRED CONCRETE DEVELOPMENT LENGTH PLUS THE REQUIRED BAR LAP SPLICE LENGTH FOR MASONRY AS SPECIFIED IN THESE GENERAL NOTES. ALL VERTICAL WALL REINFORCING SHALL BE CONTINUOUS FOR THE FULL HEIGHT OF MASONRY WALLS, INCLUDING THROUGH CONTINUOUS MASONRY BOND BEAMS UNLESS OTHERWISE INDICATED. ALL GROUTING OF MASONRY WALLS SHALL BE ASSUMED TO BE COMPLETED BY LOW LIFT GROUTING METHODS. IF THE CONTRACTOR PROPOSES TO UTILIZE HIGH LIFT GROUTING METHODS THEY SHALL SUBMIT THEIR PROPOSED HIGH LIFT GROUTING PROCEDURE FOR REVIEW PRIOR TO STARTING ANY GROUTING ON THE PROJECT SITE. REINFORCING ABOVE WINDOWS, DOORS AND MECHANICAL OPENINGS IN THE EXTERIOR WALLS SHALL BE IN A BOND BEAM COURSE ABOVE THE STEEL LINTELS PROVIDED AT THESE OPENINGS. BOND BEAMS SHALL EXTEND 2'-0" BEYOND THE OPENING. CELLS CONTAINING REINFORCING BARS AND ALL CELLS BELOW GRADE SHALL BE GROUTED SOLID. ALL OTHER CELLS SHALL REMAIN UNFILLED EXCEPT WHERE NOTED. THE CONTRACTOR SHALL NOT RUN CONDUIT OR PIPE IN CELLS CONTAINING REINFORCING. ALL BOLTS OR ANCHORS SHALL BE SOLIDLY EMBEDDED IN MORTAR OR GROUT. IF BOND BEAM IS NOT LOCATED AT BOLT OR ANCHOR ELEVATION, PROVIDE LATH AND FILL CELL LOCALLY TO PROVIDE SUBSTRATE FOR BOLT OR ANCHOR. GROUT CELL ABOVE ALL MASONRY ANCHORS. ALL COLUMNS WITHIN SHEAR WALLS AND EXTERIOR WALLS SHALL BE SOLIDLY EMBEDDED IN GROUT. GROUT SOLID MASONRY FOR FULL HEIGHT OF WALL BELOW EACH LOOSE LINTEL AND PROVIDE #4 VERTICAL IN NEW OR EXISTING CORE. USE SOLID MASONRY FOR TWO COURSES BELOW EACH BEAM BEARING EXCEPT AS NOTED. USE 1 COURSE (8") OF SOLID MASONRY OR GROUTED SOLID MASONRY BELOW EACH STEEL JOIST BEARING EXCEPT AS NOTED. PROVIDE CONTINUOUS GROUTED BOND BEAM WHERE MASONRY ANCHORS CONNECT CONCRETE MASONRY TO STEEL FRAMING. GROUT CELL ABOVE ANCHOR. HOLLOW UNITS SHALL BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS, EXCEPT THAT WEBS SHALL ALSO BE BEDDED IN ALL COURSES OF BEARINGS AND SHEAR WALLS, PIERS, COLUMNS AND PILASTERS, AND IN THE STARTING COURSE ON FOOTINGS AND SOLID FOUNDATION WALLS, AND WHERE ADJACENT TO CELLS OR CAVITIES WHICH ARE TO BE REINFORCED AND/OR FILLED WITH GROUT. MORTAR PROTRUSIONS EXTENDING INTO CELLS OR CAVITIES TO BE REINFORCED AND/OR GROUTED SHALL BE REMOVED. ALL MASONRY WALLS SHALL BE BRACED AT THE TOP WHERE MASONRY ENDS AT THE UNDERSIDE OF FLOOR OR ROOF CONSTRUCTION. REFER TO TYPICAL DETAILS. ALL MASONRY WALLS THAT DO NOT EXTEND TO BOTTOM OF FLOOR OR ROOF STRUCTURE ABOVE SHALL BE BRACED AT THE TOP, UNLESS BRACED HORIZONTALLY BY COLUMNS OR INTERSECTING WALLS AT A MAXIMUM SPACING OF 11 FEET FOR 4" WALLS, 17 FEET FOR 6" WALLS, 23 FEET FOR 8" WALLS, AND 33 FEET FOR 12" WALLS. THE ENDS OF THE WALLS MUST BE ANCHORED TO INTERSECTING WALLS BY EITHER TOOTHING OR MECHANICAL ANCHORS. THERE SHALL BE NO VERTICAL CONTROL JOINTS WITHIN THE HORIZONTAL SPAN OF THE WALL BETWEEN THE INTERSECTING WALLS. IN MASONRY WALLS, NO CHASES, RISERS, CONDUITS, OR TOOTHINGS OF MASONRY SHALL OCCUR WITHIN 17" OF CENTERLINE OF BEAM BEARING OR LOAD CONCENTRATION. PIERS: IF NOT SPECIFICALLY INDICATED, CONSTRUCT PIERS USING SAME MASONRY AS THAT IN WALL. BOND PIERS INTO ADJACENT WALLS USING PER MASONRY MATERIAL FOR TOOTHING. SOLID UNITS SHALL BE LAID WITH FULL HEAD AND BED JOINTS. COLLAR (VERTICAL LONGITUDINAL) JOINTS BETWEEN THE FACING AND BACKING WYTHES IN WALLS SHALL BE COMPLETELY FILLED WITH MORTAR OR GROUT AND WORKED IN WITH A TROWEL. ALL INTERSECTING LOAD BEARING WALLS SHALL BE TIED TOGETHER IN MASONRY BOND UNLESS NOTED OTHERWISE. MINIMUM DEVELOPMENT LENGTH AND SPLICE LENGTH OF MASONRY REINFORCING SHALL BE AS FOLLOWS: BAR SIZE DEVELOPMENT LENGTH SPLICE LENGTH 2 JOINT REINFORCING 9" 24" 12" 3 #4 18" 30" 4 #5 25" 37" 5 #6 27" 39" 6 #7 34" 47" IF EPOXY COATED REINFORCING IS SPECIFIED IN THE MASONRY SPECIFICATIONS, THEN ALL SPLICE LENGTHS SHALL BE INCREASED BY 50% PER THE ACI 308 MASONRY CODE. SUBMIT SHOP DRAWINGS INDICATING THE PLACEMENT OF ALL REINFORCING REQUIRED IN MASONRY WALLS. REFER TO SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS. SHOP DRAWINGS SHALL INDICATE THE LOCATION OF ALL CONTROL JOINTS, AND THE REQUIRED LAP SPLICES FOR ALL REINFORCING. SUBMIT SHOP DRAWINGS INDICATING THE PLACEMENT OF TOP OF WALL PARTITION ANCHORS AT ALL INTERIOR CMU WALLS. COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS. PROVIDE MASONRY CONTROL JOINTS AT A MAXIMUM SPACING OF 30 FEET ON CENTER. PROVIDE CONTROL JOINTS BETWEEN MAIN AND INTERSECTING WALLS, AT CHANGES IN WALL HEIGHT, CHANGES IN WALL THICKNESS AND NO GREATER THAN 4'-0" FROM CORNERS. THE TYPE OF EPOXY ADHESIVE USED FOR ANCHORING REINFORCING AND ANCHOR BOLTS TO MASONRY IS BASED ON LOAD VALUES WITH THE USE OF HILTI HIT-HY70 ADHESIVE AS MANUFACTURED BY HILTI CORPORATION. ALL PROPOSED SUBSTITUTES SHALL HAVE LOAD VALUES EQUAL TO OR GREATER THAN THE VALUES PROVIDED BY HILTI CORPORATION FOR THE SIZE OF ANCHOR BOLTS OR REINFORCING INDICATED ON THE CONTRACT DRAWINGS.	1. LIGHT GAGE COLD FORMED METAL FRAMING SHOP DRAWINGS SHALL BEAR THE PROFESSIONAL SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN CONNECTICUT, AND SHALL BE ACCOMPANIED BY STRUCTURAL CALCULATIONS AND ASSUMPTIONS. LOADING SHALL CONFORM TO THE TABULATED UNIFORM LOADING. CALCULATIONS PROVIDE PROFESSIONALLY PREPARED CALCULATIONS AND CERTIFICATION OF THE PERFORMANCE OF THIS WORK. INDICATE HOW DESIGN REQUIREMENTS FOR LOADING AND OTHER PERFORMANCE CRITERIA HAVE BEEN SATISFIED. PROVIDE CALCULATIONS SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF CONNECTICUT. SYSTEM COMPONENTS: MANUFACTURER'S STANDARD LOAD BEARING STUDS AND JOISTS OF TYPE SIZE AND GAGE INDICATED, AND AS REQUIRED TO SATISFY THE DESIGN LOADS. THE DESIGN OF THE COLD FORMED LIGHT GAGE METAL FRAMING COMPONENTS INDICATED IN THESE DRAWINGS HAVE BEEN BASED ON COMPONENTS MANUFACTURED BY MARINOWARE. MATERIALS AND FINISHES: FOR 16 GAGE AND HEAVIER UNITS, FABRICATE METAL FRAMING COMPONENTS OF STRUCTURAL QUALITY STEEL SHEET WITH A MINIMUM YIELD OF 50,000 PSI; ASTM A663. PROVIDE GALVANIZED FINISH TO METAL FRAMING COMPONENTS COMPLYING WITH ASTM A824 FOR MINIMUM G60 COATING. FINISH OR INSTALLATION ACCESSORIES TO MATCH THAT OF FRAMING COMPONENTS. FASTENERS: PROVIDE NUTS, BOLTS, WASHERS, SCREWS AND OTHER FASTENERS WITH CORROSION-RESISTANT PLATED FINISH. ELECTRODES FOR WELDING: COMPLY WITH AWS CODE AND AS RECOMMENDED BY STUD MANUFACTURER. GALVANIZING REPAIR: WHERE GALVANIZED SURFACES ARE DAMAGED BY WELDING OR CONSTRUCTION ACTIVITIES, PREPARE SURFACES AND REPAIR IN ACCORDANCE WITH PROCEDURES SPECIFIED IN ASTM A780. COLD FORMED LIGHT GAGE METAL FRAMING COMPONENTS INDICATED ON THE DRAWINGS SHALL HAVE THE MINIMUM FLANGE WIDTH BASED ON THE DESIGNATION INDICATED ON THE DRAWINGS AS FOLLOWS: DESIGNATION FLANGE WIDTH SW 1 5/8" JE 2" JF 2 1/2" JX 3" JXW 3 1/2" COLD FORMED BEARING WALL FRAMING ALL CONNECTIONS SHALL BE FASTENED AS INDICATED ON THE DRAWINGS. SCREWS- #10 SELF DRILLING SCREWS INSTALLED PER THE MANUFACTURERS SPECIFICATIONS. MINIMUM 0.5" LENGTH FOR COLD-FORMED TO COLD-FORMED CONNECTIONS. SCREWS SHALL COMPLY WITH ASTM C153. MINIMUM 1.5" LENGTH FOR COLD-FORMED TO WOOD CONNECTIONS. SCREWS SHALL BE SPACED A MINIMUM OF 0.5" BETWEEN ADJACENT SCREWS AND FROM METAL EDGES. POWDER ACTUATED FASTENERS (P.A.F.) - 0.145 MINIMUM SHANK DIAMETER UNLESS NOTED OTHERWISE AND INSTALLED PER THE MANUFACTURERS SPECIFICATIONS. PROVIDE MINIMUM 12" LONG P.A.F. FOR COLD-FORMED CONNECTIONS TO CONCRETE WITH A MINIMUM SPACING OF 4" BETWEEN P.A.F. FASTENERS AND A MINIMUM CONCRETE EDGE SPACING OF 3". PROVIDE A MINIMUM OF 1" EMBEDMENT INTO CONCRETE. PROVIDE MINIMUM 0.5" LONG P.A.F. WITH KNUBBED SHANKS FOR COLD-FORMED CONNECTIONS TO STRUCTURAL STEEL. P.A.F. SHALL BE SPACED A MINIMUM 1.5" BETWEEN ADJACENT P.A.F. WITH A MINIMUM STEEL EDGE DISTANCE OF 0.5". ALL MEMBERS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR SLOPE CUT AS REQUIRED FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS. FIELD CUTTING OF COLD-FORMED MEMBERS SHALL BE DONE BY SAWING OR SHEARING. TORCH CUTTING OF COLD-FORMED MEMBERS IS NOT PERMITTED. DO NOT CUT OR SPLICE COLD-FORMED FRAMING MEMBERS UNLESS INDICATED ON THE DESIGN DRAWINGS. DO NOT BEAR OR CONNECT COLD-FORMED MEMBERS WITHIN TEN INCHES OF THE PUNCHED OPENINGS IN THE MEMBER WEBS UNLESS THE MEMBERS ARE REINFORCED WITH A MINIMUM 16" LONG UNPUNCHED TRACK OR STUD AT THE PUNCHED OPENING. THE TRACK OR STUD REINFORCING PIECE SHALL BE THE SAME SIZE AND GAUGE AS THE PUNCHED MEMBER. FASTEN THE REINFORCING PIECE TO THE MEMBER WITH (4)- #10 SCREWS. THE COLD-FORMED FRAMING HAS BEEN DESIGNED TO SUPPORT THE LOADS INDICATED ON THE DESIGN DRAWINGS. ADDITIONAL TEMPORARY BRACING AND SHORING SHALL BE PROVIDED AS REQUIRED TO STABILIZE THE FRAMING AND TO SUPPORT CONSTRUCTION LOADS. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL PERMANENT BRACING IS INSTALLED AND/OR CONSTRUCTION LOADS HAVE BEEN REMOVED.

Project Title: TOWN OF CROMWELL CROMWELL BELDEN PUBLIC LIBRARY 39 WEST STREET CROMWELL, CT 06416	
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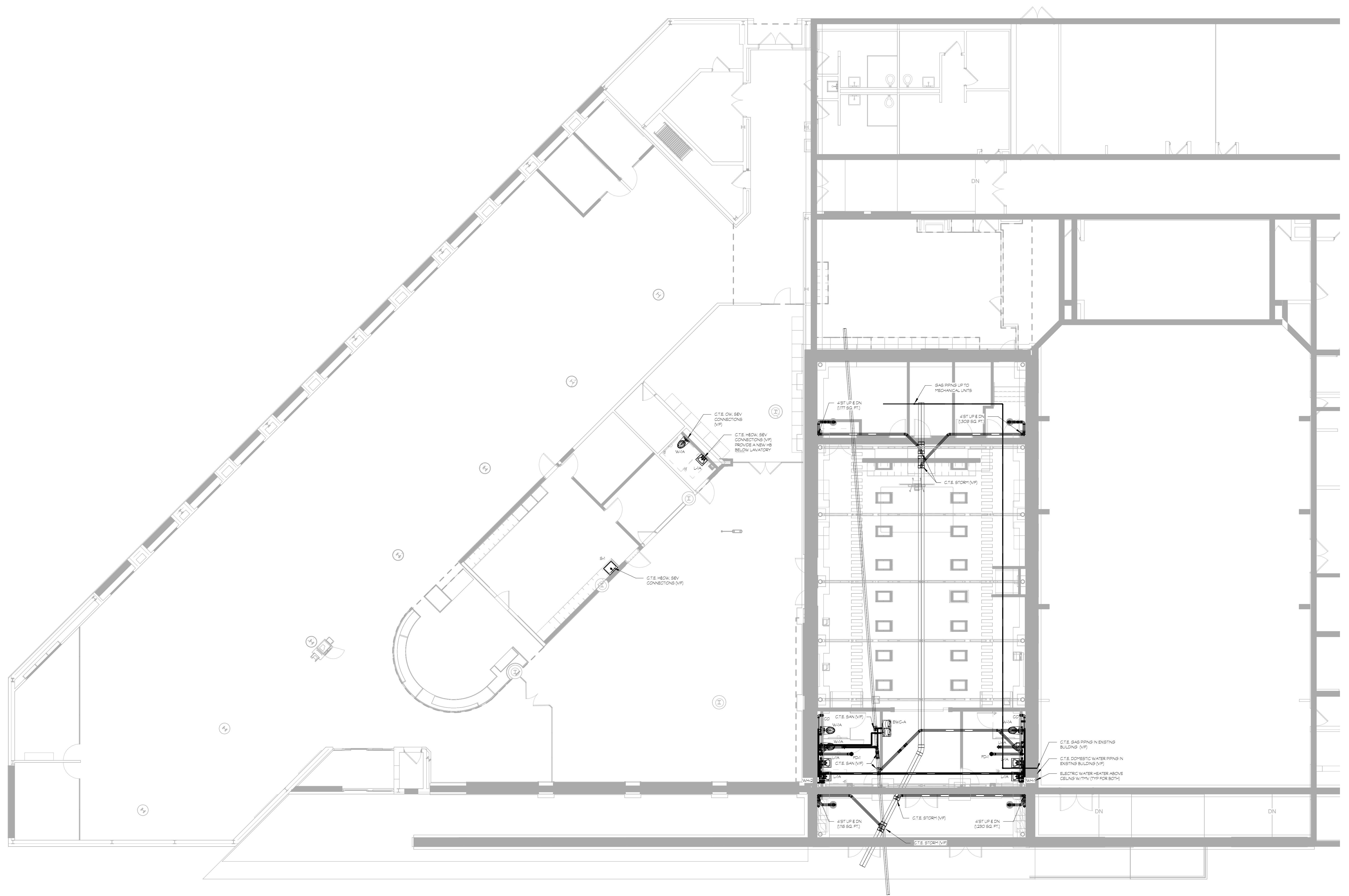
SILVER / PETRUCELLI + ASSOCIATES Architects / Engineers / Interior Designers 3190 Whitney Avenue, Hamden, CT 06518-2340 Tel. 203 230 9007 Fax. 203 230 8247 silver@petrucelli.com	Revison: Description: Date: Revised By:
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	Drawing Title: GENERAL NOTES S600
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Date: 7/17/18 Scale: 1/8" = 1'-0" Drawn By: AC Project Number: 17.025	Drawing Number:
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LINE TYPE LEGEND

PLUMBING DRAWING LIST	
DRAWING NUMBER	DRAWINGS DESCRIPTION
P001	PLUMBING COVER SHEET
P002	PLUMBING FLOOR PLAN
P003	PLUMBING ROOF PLAN
P801	PLUMBING DETAILS
P901	PLUMBING SCHEDULES



1 LIBRARY FLOOR SUPPLY PLAN
SCALE 1/8" = 1'-0"

Project Title:
TOWN OF CROMWELL
CROMWELL BELDEN PUBLIC LIBRARY
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CROMWELL, CT 06416



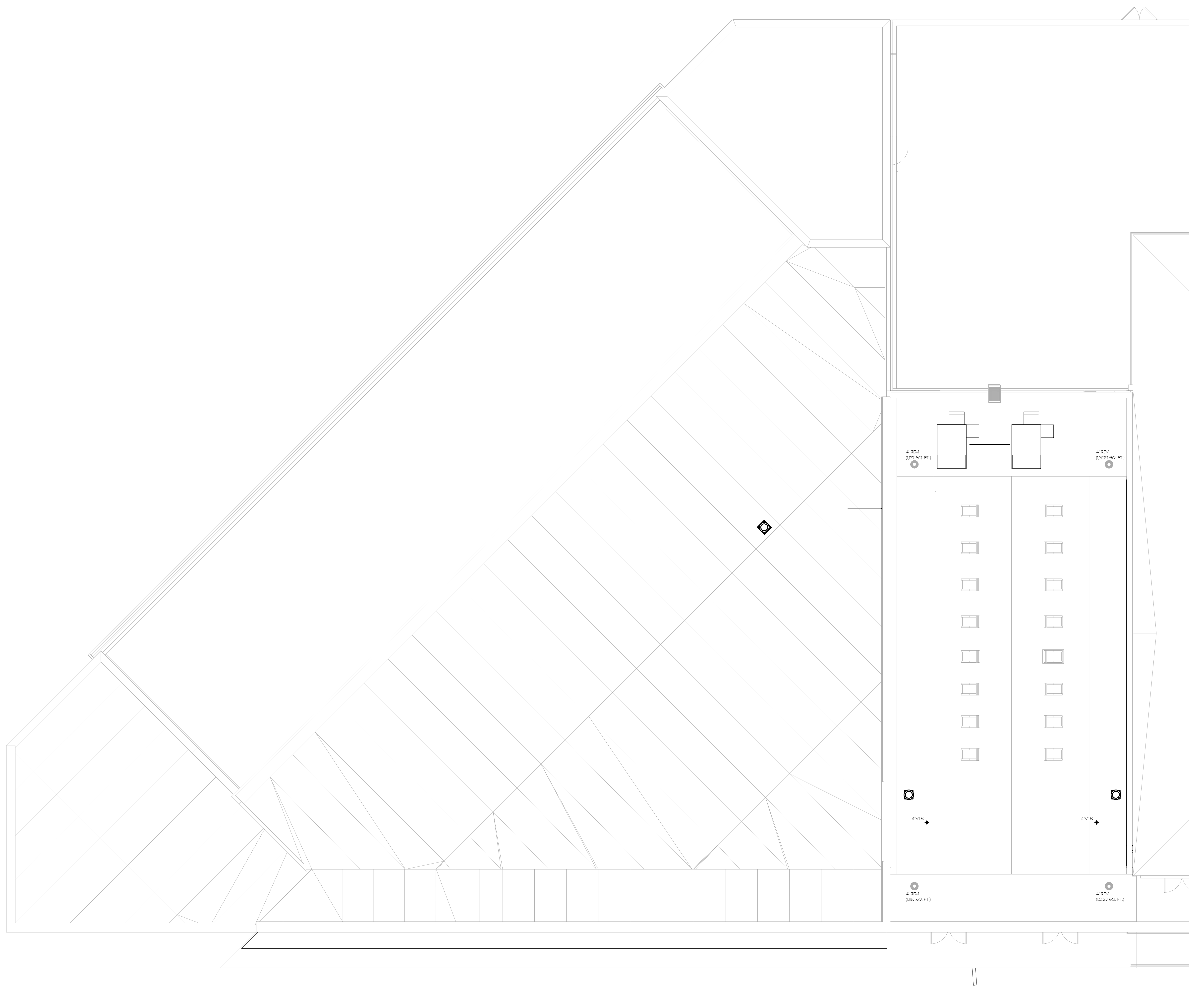
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Revision:	Description:	Date:	Revised By:

Drawing Title:
PLUMBING FLOOR PLAN

Date:
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Scale:
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Drawn By:
ARC
Project Number:
Drawing Number:
P101



1 TOWN HALL ROOF SLAB SUPPLY PLAN
011 SCALE 1/8" = 1'-0"

Project Title:
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Revision:	Description:	Date:	Revised By:

Drawing Title:
PLUMBING ROOF PLAN

Date:
7/17/18
Scale:
1/8" = 1'-0"
Drawn By:
ARC
Project Number:
Project Number

Drawing Number:

P111



ELECTRIC WATER HEATER SCHEDULE									
MARK	MAKE & MODEL	STORAGE	RECOVERY @ TEMP. RISE	MIXING VALVE	ELECTRIC				REMARKS
					VOLTAGE	PHASE	AMPS	ELEMENT	
WH-1	RHEEM RTE-X-06	N/A	--	TMV	208	3	28	N/A	
WH-1	RHEEM RTE-X-06	N/A	--	TMV	208	3	28	N/A	
NOTES: 1. PROVIDE FACTORY INSTALLED HEAVY DUTY ELECTRICAL JUNCTION BOX, CONTROLS, WITH T-STATS SET ON 120°F. 2. INSTALL WATER HEATER IN ACCORDANCE TO SPQ, SMC CODES, NEC, AND APPLICABLE STANDARDS AND MANUFACTURERS RECOMMENDATIONS. 3. CONTACT MANUFACTURERS REPRESENTATIVE FOR HEATERS ELECTRICAL DATA BEFORE FINAL ORDER IS MADE. 4. INSTALL WATER HEATER IN ACCORDANCE WITH BUILDING CODE - PLUMBING & MECHANICAL (WITH LATEST AMENDMENTS) CODES, ENERGY CODE, AND APPLICABLE STANDARDS AND MANUFACTURERS RECOMMENDATIONS. 5. PROVIDE BRASS DRAIN VALVE, & ALL REQUIRED OPTIONS TO COMPLETE THE INSTALLATION. 6. WATER HEATER SHALL BE WIRED FOR NON-SIMULTANEOUS ELEMENT OPERATION.									

THERMOSTATIC MIXING VALVE SCHEDULE									
MARK	EQUIPMENT BEING SERVED (I.E. WATER HEATER, ETC.)	AREA SERVED	PRESSURE DIFFERENTIAL	MINIMUM FLOW RATE GPM (NOTE 1)	MINIMUM FLOW RATE GPM	INLET TEMPERATURE	OUTLET TEMPERATURE	MANUFACTURER	
								MODEL	
--	LAVATORIES	--	10 PSI	21 GPM	0.25 GPM	120°F	110°F	ACORN VALVE	
								ST-10-12-MB	
NOTES: 1. MINIMUM LOW RATE WHEN VALVE IS INSTALLED AT OR NEAR HOT WATER SOURCE WITH RECIRCULATED TEMPERED WATER AND CONTINUOUSLY OPERATING CIRCULATION PUMP. 2. WITH DIAL THERMOMETER, ADJUSTABLE SET POINT, INTEGRAL STRAINER CHECKSTOPS ON INLETS, PROVIDE SHUTOFFS/UNIONS AT ALL CONNECTIONS.									

BRANCH PIPE SIZING SCHEDULE					
FIXTURE	SAN/WASTE	VENT	HOT WATER	COLD WATER	REMARKS
WCP-RV	4"	2"	--	1"	--
LAV	1 1/2"	1 1/2"	1/2"	1/2"	--
UR	2"	1 1/2"	--	3/4"	--
SINK	1 1/2"	1 1/2"	1/2"	1/2"	--
EWG	1 1/2"	1 1/2"	--	1/2"	--

PIPE HANGER SPACING TABLE			
PIPE MATERIAL	PIPE SIZES (INCHES)	HORIZONTAL PIPE MAX HANGER DISTANCE (FT)	VERTICAL PIPE MAX HANGER DISTANCE (FEET)
COPPER & COPPER ALLOY TUBING	1-1/4" & SMALLER	6'-0"	10'-0"
COPPER & COPPER ALLOY TUBING	1-1/2" & LARGER	10'-0"	10'-0"
COPPER & COPPER ALLOY PIPE	ALL	12'-0"	10'-0"
CAST IRON PIPE	ALL	5'-0" *	15'-0"
STEEL PIPE	ALL	12'-0"	15'-0"
NOTES: * MAXIMUM HORIZONTAL SPACING OF CAST IRON PIPE HANGERS SHALL BE INCREASED TO 10'-0" WHERE 10'-0" LENGTHS OF PIPE ARE USED ** MIDSTORY GUIDE FOR SIZES 2" AND SMALLER NOT ALL PIPE MATERIALS ON THIS TABLE WILL PERTAIN TO THIS PROJECT			

PIPE AND FITTING SCHEDULE						
DESCRIPTION	SIZE	PIPE		FITTING		REMARKS
		TYPE	SCHEDULE	TYPE	RATING	
SOL. WASTE AND VENT ABOVE GROUND	ALL	CI-NH	SV	CI	SV	4 BAND FOR 4" AND SMALLER 6 BAND FOR LARGER THEN 4"
SOL. WASTE AND VENT BELOW GROUND	ALL	CI-HES	SV	CI	SV	--
STORM ABOVE GROUND	ALL	CI-NH	SV	CI	SV	4 BAND FOR 4" AND SMALLER 6 BAND FOR LARGER THEN 4"
STORM BELOW GROUND	ALL	CI-HES	SV	CI	SV	--
DOMESTIC COLD WATER WITHIN BUILDING	ALL	COPPER	TYPE L	CUS	STD	HARD TEMPERED
DOMESTIC HOT WATER WITHIN BUILDING	ALL	COPPER	TYPE L	CUS	STD	HARD TEMPERED
DOMESTIC HOT & COLD WATER RECIRCULATION WITHIN BUILDING	ALL	COPPER	TYPE L	CUS	STD	HARD TEMPERED
DOMESTIC HOT & COLD WATER PIPING WITHIN BUILDING, BELOW SLAB	ALL	COPPER	TYPE K	CUS	STD	SOFT TEMPERED, NO JOINTS BELOW SLAB
TRAP PRIMER PIPING	ALL	PEX	--	--	--	NO JOINTS ALLOWED BELOW SLAB
GAS PIPING	2" AND SMALLER	STL-BLK	SCH. 40	MT	CLASS B50	--
GAS PIPING	2 1/2" AND LARGER	STL-BLK	SCH. 40	WE	SCH. 40	--
NOTES: 1. TRANSITION COUPLINGS AND NO-HUB PIPE SHALL NOT BE INSTALLED BELOW SLAB OR IN ANY BURIED CONDITIONS IN CONTACT WITH EARTH 2. ALL PIPING IN RETURN AIR CEILING PLENUM INSTALLATIONS SHALL BE UL LISTED FOR THIS APPLICATION 3. MECHANICAL JOINTS ARE ALLOWED FOR SERVICE PURPOSED ONLY IN WALLS AND CEILINGS BUT MUST BE READILY ACCESSIBLE. 25/50 PVDF IS UL LISTED FOR RETURN AIR CEILING PLENUM INSTALLATIONS						
ABBREVIATIONS	DESCRIPTION		ABBREVIATIONS		DESCRIPTION	
CI	CAST IRON		STD	STANDARD		
CUS	WROUGHT COPPER SOLDER (95/5)		STL-BLK	BLACK STEEL		
HES	HUB AND SPIGOT		SV	SERVICE WEIGHT		
MT	MALLEABLE IRON THREADED		TJ	THREADED JOINTS		
NH	NO HUB W/ SUPER DUTY HUSKY SD 4000 CLAMP		WE	BUT WELD		
WE	BUT WELD					

INSULATION SCHEDULE					
SYSTEM	PIPE SIZE	INSULATION TYPE	INSULATION THICKNESS	FITTINGS, VALVES, FLANGES INSULATION TYPE	REMARKS
DOMESTIC COLD WATER	ALL	MINERAL FIBER ASJ, SBL	1"	MOLDED, PRE-FORMED MINERAL FIBER WITH PVC JACKET	TYPE 1
DOMESTIC HOT WATER	ALL	MINERAL FIBER ASJ, SBL	1"	MOLDED, PRE-FORMED MINERAL FIBER WITH PVC JACKET	TYPE 1
DOMESTIC WATER UNDERGROUND & IN SLAB	ALL	CLOSED CELL	1"	ARMAFLEX	--
CONDENSATE	ALL	MINERAL FIBER ASJ, SBL	1/2"	MOLDED, PRE-FORMED MINERAL FIBER WITH PVC JACKET	TYPE 1
INTERIOR ROOF DRAIN PIPING	ALL	MINERAL FIBER ASJ, SBL	1"	MOLDED, PRE-FORMED MINERAL FIBER WITH PVC JACKET	TYPE 1 INCLUDE ROOF DRAIN BODY
NOTES: 1. FIBERGLASS INSULATION THERMAL CONDUCTIVITY .22 TO .28 BTU x IN./H x FT x F W/ 100°F MEAN TEMP. THICKNESS BASED ON ASHRAE 90.1, 1999 6.2.4.5 2. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS 3. ALL KITCHEN WASTE SHALL BE HEAT TRACED FROM FIXTURE TO THE GREASE INTERCEPTOR.					

VALVE SCHEDULE								
DESCRIPTION	SIZE	TYPE						REMARKS
		GATE	GLOBE	CHECK	BALL	PLUG	BALANCE	
DOMESTIC COLD WATER	3" AND SMALLER	--	--	CVT	BVT	--	--	125PSI --
DOMESTIC HOT WATER	3" AND SMALLER	--	--	CVT	BVT	--	CBV	125PSI --
DOMESTIC COLD WATER	4" AND LARGER	--	--	CVF	--	--	--	125PSI --
DOMESTIC HOT WATER	4" AND LARGER	--	--	CVF	--	--	CBV	125PSI --
GAS	2" AND SMALLER	--	--	--	--	PSVT	--	125PSI --
GAS	2 1/2" AND LARGER	--	--	--	--	PSVF	--	125PSI --
NOTES: 1. SOLENOID VALVE UL LISTED, FM APPROVED FOR GAS SERVICE, EXPLOSION PROOF, TWO-WAY NORMALLY CLOSED, ASCO 8044 SERIES W/MANUAL RESET, (EMERGENCY GAS SHUT-OFF VALVE AS555-BLY) 2. CALIBRATED PRESSURE RELIEF VALVE, INSTALL A MINIMUM OF 12" ABOVE WATER HEATER AND PIPE DISCHARGE TO ADEQUATE LOCATION, WATTS MODEL 840C								
ABBREVIATION	DESCRIPTION			ABBREVIATION	DESCRIPTION			
BVF	BALL VALVE FLANGED - FULL PORT, BRONZE			CVF	CHECK VALVE FLANGED - 1" MB			
BVT	BALL VALVE THREADED - 2-PIECE, FULL PORT, 400PSI, BRONZE			CVT	CHECK VALVE THREADED - BRONZE			
BVT	BALL VALVE THREADED - 2-PIECE, FULL PORT, 400PSI, BRONZE			PSVF	PLUG VALVE FLANGED - ASA APPROVED			
CBV	CALIBRATED BALANCING VALVE - BRONZE			PSVT	PLUG VALVE THREADED - ASA APPROVED			
CPRV	CALIBRATED PRESSURE RELIEF VALVE							

PLUMBING FIXTURE/EQUIPMENT SCHEDULE					
MARK	FIXTURE, MODEL NUMBER AND DESCRIPTION	ROUGH-IN			
		WASTE/ SANITARY	VENT	OV	HV
W-1A	WATER CLOSET, WALL HUNG, SLOAN VETS 2050 100-1-28, VITREOUS CHINA, ELONGATED BOWL, 1 1/2" TOP SPUD, SPHON JET TOILET WITH WALL SUPPLY, SLOAN ROYAL 11-28 MANUAL FLUSH VALVE, CLURCH 285CT OPEN FRONT SEAT, PROVIDE ALL ITEMS REQUIRED FOR COMPLETE INSTALLATION.	4"	2"	1"	--
U-1A	URINAL, WALL HUNG, SLOAN VELS 1000 100-0-125, VITREOUS CHINA 3/4" INLET SPUD, WALL SUPPLY WASHOUT URINAL WITH FULLY ENCLOSED P-TRAP, SLOAN ROYAL 186-0-125 MANUAL FLUSH VALVE, PROVIDE ALL ITEMS REQUIRED FOR COMPLETE INSTALLATION.	2"	2"	3/4"	--
L-1A	LAVATORY, WALL HUNG, SLOAN 565-3023 VITREOUS CHINA WALL MOUNT LAVATORY, SYMMONS SCOT 5-60H ADJUSTABLE HOT AND COLD METERING FAUCET, 1/2" CHROME PLATED CAST BRASS P-TRAP, SUPPLIES, BRASS ANGLE STOPS WITH LOOSE KEY OPERATION, GRID DRAIN, ETC. FOR COMPLETE INSTALLATION, COORDINATE	2"	1 1/2"	1/2"	1/2"
S-1A	SINGLE BOWL, SINK, ADA COMPLIANT, ELAY LKAC-2501, 22" X 21" X 8, 18 GAUGE TYPE 302 STAINLESS STEEL, SEE FINISHING FAUCET DELTA 717-F-10P LEAD FREE, 1.5 GPM, SINGLE LEVER SWING SPOUT FAUCET, LESS SPRAY, PROVIDE 1/2" CHROME PLATED CAST BRASS P-TRAP, SUPPLIES, BRASS ANGLE STOPS WITH LOOSE KEY OPERATION, GRID DRAIN, ASSE 1070 TMY AND ALL OTHER ITEMS REQUIRED FOR COMPLETE INSTALLATION.	1 1/2"	1 1/2"	1/2"	1/2"
EWG-1A	ELECTRIC WATER COOLER W/ BOTTLE FILLING STATION, ADA COMPLIANT, MUROOK AT22-BF2 SERIES W/APRON ADA COMPLIANT WHEN PROPERLY INSTALLED, ADA COMPLIANT CONTROLS, FRONT PUSH BAR CONTROLS, FRONT MOUNT PUSH BUTTON SHALL BE OPERABLE WITH A 5 LBS. MAXIMUM FORCE, ELECTRICAL RATING 1/8 VOLTS, 60-HZ RATED WATTS 360, FULL LOAD AMPS 8.4, MINIMUM COOLING CAPACITY 8 GPH	2"	1 1/2"	1/2"	--
H-B	HOSE BIBB (UNFINISHED AREAS), WOODFORD MODEL 2A, BRONZE BODY, REMOVABLE VALVE SEAT & STEM ASSEMBLY, THREADED END, INTEGRAL VACUUM BREAKER	--	--	3/4"	--
FD-HB	FREEZE PROOF HOSE BIBB, WOODFORD MODEL MB87, CAST BRONZE NON-FREEZE WALL HYDRANT WITH STAINLESS STEEL FINISHED LOOKING COVER, 3/4" HPT OUTLET, INTEGRAL DOUBLE CHECK BACKFLOW PREVENTER PRESSURE RELIEF VALVE, AND 3/4" FEMALE 8" MALE NPT INLER CONNECTION	--	--	3/4"	--
SA	WATER HAMMER ARRESTOR, PRECISION PLUMBING PRODUCTS (PPP) SC SERIES, 1/2-1", SIZE PER MANUFACTURE RECOMMENDATIONS AND REQUIREMENTS	--	--	1/2-1"	--
TP	ELECTRIC TRAP PRIMER, PRECISION PLUMBING PRODUCTS (PPP) PT SERIES, CONSISTING OF CIRCUIT BREAKER (MIN. 2 AMP), SWITCH TIMER, SOLENOID VALVE, ANTI-SIPHON ATMOSPHERIC VACUUM BREAKER, 120V, SINGLE PHASE, SURFACE OR RECESSED CABINET BASED ON WALL CONDITIONS (REFER TO DWGS) COORDINATE ACCESS PANEL FINISH WITH ARCHITECT, COORDINATE NUMBER OF OUTLETS AS REQUIRED BY QUANTITY OF DRAINS, INSTALL PER MANUFACTURERS REQUIREMENTS AND RECOMMENDATIONS	--	--	3/4"	--
NOTES: 1. LAVATORY & WATER COOLERS SUPPLY SHALL BE BRASS W/ BRASS ANGLE STOPS FOR 1/2" WATER SUPPLY LINES, W/ LOOSE KEY (W/CAP), AND WALL FLANGE. ALL COMPONENTS SHALL BE POLISHED CHROME FINISH, MANUFACTURER BRASS CRAFT OR APPROVED EQUAL. 2. CAST BODY P-TRAP 1/2" x 1/2" WITH HEAVY CAST U-BEND & FLAT CLEANOUT PLUG, SLIP NUTS AND WALL FLANGE. ALL COMPONENTS SHALL BE POLISHED CHROME FINISH, MANUFACTURER BRASS CRAFT OR APPROVED EQUAL. 3. STRAINERS SHALL BE FURNISHED WITH FIXTURES AS REQUIRED, FOR H/C LAVATORY OR SINKS PROVIDE OFFSET TAILPIECE. 4. PROVIDE TRUEBRO MODEL 103 (WHITE), ANTIMICROBIAL HAND LAUV-GUARDS INSTALLATION KIT FOR ALL WHEELCHAIR LAVATORY & SINKS FOR WATER SUPPLIES & WASTE LINE. 5. PROVIDE WATER SUPPLY & P-TRAP & OPTIONAL WATER FILTERS FOR ELECTRIC WATER COOLERS AS PER MANUFACTURERS RECOMMENDATIONS. 6. THE PLUMBING FIXTURES VENDOR SHALL COORDINATE WITH THE PLUMBING AND GENERAL CONTRACTOR ALL PLUMBING FIXTURES ROUGH IN DIMENSIONS BEFORE CONSTRUCTION BEGINS. 7. UNLESS SHOWN ABOVE, PLUMBING FIXTURES MANUFACTURER, TRIM COLOR AND FINISH SHALL BE FURNISHED AS DIRECTED BY OWNER/ARCHITECT. 8. REFER TO ARCHITECTURAL DRAWINGS FOR STANDARD, ADA MOUNTING AND CHILD HEIGHTS. REFER TO ARCHITECTURAL FOR LOCATION OF ADA COMPLIANT SHOWER SEAT AND SHOWER BARS. 9. CONTRACTOR TO PROVIDE AN EXTRA 10% OF BATTERIES, AERATORS, CARTRIDGE, ETC.. 10. ALL HARD WIRED FAUCETS TO A HAVE BOX MOUNTED TRANSFORMER ABOVE CEILING. REFER TO ELECTRICAL DOCUMENTS FOR LOCATIONS AND CONNECTION POINT.					

DRAIN SCHEDULE				
MARK	FIXTURE, MODEL NUMBER AND DESCRIPTION	ROUGH-IN		
		TRAP	WASTE	VENT
FD-1	FLOOR DRAIN (TOILET ROOM), WATTS FD-110C-AS, HEAVY DUTY CAST IRON BODY, BOTTOM OUTLET, 6X6" SQUARE NICKEL, BRONZE TOP, TRAP PRIMER CONNECTION, SEEPAGE PAN AND COMBINATION MEMBRANE FLASHING CLAMP	AS NOTED ON DWGS	AS NOTED ON DWGS	AS NOTED ON DWGS
RD-1	ROOF DRAIN, FROST 200C SERIES, HEAVY DUTY DRAIN WITH 1 1/2" - 1.8" DIAMETER CAST IRON BODY, BOTTOM OUTLET, CAST IRON DOME, ROOF DUMP RECEIVER, UNDER DECK CLAMP, (NOTE INCLUDE EXTENSION COLLAR AS REQUIRED FOR INSULATION OF CONSTRUCTION THICKNESS) EXTENSION, AND COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD	AS NOTED ON DWGS	AS NOTED ON DWGS	AS NOTED ON DWGS
NOTES: 1. PROVIDE TRAP PRIMERS FOR ALL DRAINS, DRAINS INCORPORATING A CONSTANT AND REGULAR WASTE ARE NOT REQUIRED TO INTERGRATE TRAP PRIMERS (I.E. SHOWER DRAINS, KITCHEN DRAINS, ETC.) 2. TRANSITION COUPLINGS AND NO-HUB PIPE SHALL NOT BE INSTALLED BELOW SLAB OR IN ANY BURIED CONDITIONS IN CONTACT WITH EARTH				

CLEANOUT SCHEDULE			
MARK	FIXTURE, MODEL NUMBER AND DESCRIPTION	TRAP SIZE	REMARKS
FCO	FLOOR CLEANOUT (ALL INTERIOR AREAS EXCEPT CARPETED AREAS), WATTS CO-200-RVC-G-B, ADJUSTABLE ROUND SCORATED HEAVY DUTY NICKEL BRONZE SECURED TOP WITH FRAME, CAST IRON BODY, FLASHING FLANGE AND CLAMP, BRONZE PLUG, PROVIDE WITH VANDAL PROOF SCREWS, PROVIDE NICKEL BRONZE FRAME IN VET AREAS	AS NOTED ON DWGS	--
WCO	WALL PLATE CLEANOUT COVER, WATTS CO-880-RD, PROVIDE AT CAST IRON CLEANOUTS WITH COUNTERSUNK BRASS PLUG AND STAINLESS STEEL COVER SECURED WITH VANDAL PROOF SCREWS	--	--
NOTES: 1. TRANSITION COUPLINGS AND NO-HUB PIPE SHALL NOT BE INSTALLED BELOW SLAB OR IN ANY BURIED CONDITIONS IN CONTACT WITH EARTH 2. PROVIDE ALL POURED IN PLACE CLEANOUTS WITH 24X24" FLASHING			

Project Title:
**TOWN OF CROMWELL:
CROMWELL BELDEN PUBLIC LIBRARY**

39 WEST STREET
CROMWELL, CT 06416



SILVER / PETRUCCELLI + ASSOCIATES
Architects / Engineers / Interior Designers

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Revision:	Description:	Date:	Revised By:
△	ADDENDUM #2	8/16/18	ARC

Drawing Title:
PLUMBING SCHEDULES

Date:
JULY 17, 2018
Scale:
AS NOTED
Drawn By:
ARC
Project Number:
17.025

P901

GENERAL

- THE INTENT OF THESE CONTRACT DOCUMENTS IS FOR THE CONTRACTOR TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. THESE MECHANICAL AND ELECTRICAL SYSTEMS INCLUDE PLUMBING, FIRE PROTECTION, HVAC, ELECTRICAL, AND ALL ASSOCIATED SPECIAL SYSTEMS. ALL SYSTEMS SHALL BE COMPLETE IN ALL RESPECTS. OPERATING, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.
- THE CONTRACTOR SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS, INCLUDING PROJECT MANUAL, PLANS AND SPECIFICATIONS OF ALL TRADES BEFORE SUBMITTING BID. REFER TO SPECIFICATIONS, PROJECT MANUAL AND PLANS, INCLUDING ALL EQUIPMENT SCHEDULES FOR MECHANICAL AND ELECTRICAL INFORMATION. CONTRACTOR SHALL WALK THROUGH BUILDING PRIOR TO SUBMITTING BID.
- ALL OF THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY TO FORM A TOTAL DESIGN PACKAGE. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER TO DETERMINE WHICH TRADE CONTRACTOR IS RESPONSIBLE FOR VARIOUS PORTIONS OF THE WORK.
- ALL WORK AND ACTION DEPICTED AND DESCRIBED SHALL BE PERFORMED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
- PROVIDE SUPPORT/BRACING OF EQUIPMENT AND BUILDING SERVICES FOR SEISMIC RESTRAINT AS REQUIRED BY CODE.
- OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
- ALL EQUIPMENT, MATERIALS AND RELATED SYSTEMS COMPONENTS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.
- REPAIR AND/OR REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION.
- THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF EQUIPMENT WITH ALL TRADES BEFORE STARTING CONSTRUCTION. ANY MODIFICATIONS TO THE EQUIPMENT LAYOUT REQUIRED FOR INSTALLATION ARE TO BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION OF LIGHT FIXTURES AND MOUNTING HEIGHTS OF EQUIPMENT. INCLUDES OF RECEPTACLES, SWITCHES, THERMOSTATS, ETC. ALL SUCH EQUIPMENT AND COLORS SHALL BE COORDINATED WITH THE ARCHITECT. CONTACT ARCHITECT FOR CLARIFICATION OF MOUNTING REQUIREMENTS, IF INFORMATION IS NOT CONTAINED IN THE DRAWINGS.
- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE APPLICABLE CODES IN THE ORDINANCES AND THE REGULATORY AGENCIES HAVING JURISDICTION.
- ALL EQUIPMENT SHALL BE LOCATED IN ACCESSIBLE LOCATIONS. WHEN A PIECE OF EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING OR WALL THEN THE APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. THESE SHALL BE COORDINATED WITH THE ARCHITECT.
- WHEN CONFLICTS OCCUR BETWEEN THE DRAWINGS AND/OR SPECIFICATIONS IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE CONTRACTOR SHALL CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).
- CONTRACTORS SHALL COORDINATE THEIR WORK WITH ALL OWNER-FURNISHED EQUIPMENT, INCLUDING REQUIRED SERVICE CONNECTIONS, RECEPTACLES, ETC. BEFORE INSTALLATION.
- CONTRACTORS SHALL PROVIDE ALL REQUIRED SLEEVES AND SEALS FOR PIPES OR CONDUIT PENETRATING WALLS OR FLOOR SLABS WITH FIRE STOPPING SEALANT WHERE REQUIRED.
- ALL FLOOR MOUNTED MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE INSTALLED ON A CONCRETE HOUSEKEEPING PAD.
- ELECTRICAL CONDUITS & BOXES TO BE CONCEALED IN WALLS OR ABOVE CEILING WHEREVER POSSIBLE.
- COORDINATE ALL PIPING AND CONDUITS LEAVING THE BUILDING WITH THE SITE CONTRACTOR(S) BEFORE INSTALLATION.
- PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT.
- PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS CONNECTED TO AND WITHIN 50 FEET OF ISOLATED EQUIPMENT THROUGHOUT MECHANICAL EQUIPMENT ROOMS.
- LOCATE ALL TEMPERATURE, PRESSURE AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP/DOWN STREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.
- PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS AND OTHER CONCEALED MECHANICAL EQUIPMENT.
- ALL EQUIPMENT, PIPING, DUCT WORK SHALL BE SUPPORTED AS DETAILED, SPECIFIED AND REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
- LOCATION AND SIZES OF ALL FLOOR, WALL AND ROOF PENETRATIONS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
- CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS TO SYSTEMS BASED ON SUBSTITUTION OF EQUIPMENT DIFFERENT THAN BASIS OF DESIGN.

RENOVATION

- THIS PROJECT IS A RENOVATION OF AN EXISTING FACILITY. IT IS THE INTENT OF THE DEMOLITION DRAWING TO LEAVE ALL MATERIALS OUTSIDE THE LIMITS OF THIS CONTRACT IN EXISTING OPERATING CONDITION.
- BEFORE SUBMITTING HIS BID THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH THE PROJECT IS TO BE COMPLETED.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MAKES AS A RESULT ON HIS FAILURE TO BECOME FULLY FAMILIAR WITH THE EXISTING CONDITIONS.
- IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW EVERY PIECE OF EQUIPMENT, PIPING OR CONDUIT TO BE REMOVED. EQUIPMENT NOT BEING USED SHALL BE REMOVED INCLUDING ALL ASSOCIATED HANGARS, SUPPORTS, PIPES, DUCTS, CONDUITS, WIRES AND CONTROLS BACK TO THE POINT OF ORIGIN.
- NO EQUIPMENT, PIPING OR CONDUIT SHALL BE ABANDONED IN PLACE UNLESS SPECIFICALLY NOTED.
- PROPERLY DISPOSE OF ALL DEMOLISHED EQUIPMENT AND MATERIALS IN COMPLIANCE WITH CODES AND REGULATIONS.
- RELOCATE EXISTING EQUIPMENT, PIPING, WIRING AND RELATED SYSTEMS TO REMAIN AS REQUIRED FOR CONSTRUCTION. EXTEND FEEDER/CONDUIT AND PROVIDE RECONNECTIONS FOR SYSTEM TO BE FULLY OPERATIONAL. ALL RELOCATED EQUIPMENT SHALL BE PROTECTED DURING CONSTRUCTION.
- PROVIDE TEMPORARY CONNECTIONS AND SYSTEM MODIFICATIONS AS REQUIRED FOR CONSTRUCTION.
- INCLUDE ALL WORK REQUIRED TO ALLOW PHASED CONSTRUCTION WHERE NECESSARY. COORDINATE WITH GENERAL CONTRACTOR/CONSTRUCTION MANAGER FOR PHASING REQUIREMENTS.
- ALL EXISTING EQUIPMENT, DIFFUSERS, FIXTURES AND DEVICES ASSOCIATED WITH MECHANICAL AND/OR ELECTRICAL ON WALLS AND CEILINGS TO BE DEMOLISHED SHALL BE REMOVED UNLESS OTHERWISE SPECIFIED. FIELD VERIFIED FOR EXACT LOCATIONS AND QUANTITY OF ITEMS BEING REMOVED. COORDINATE WITH ARCHITECTURAL PLANS FOR SCOPE AREA OF DEMOLITION AND CONSTRUCTION.
- GENERAL CONTRACTOR IS RESPONSIBLE OF PATCHING, REPAIRING, CAPPING, ETC. PER DEMOLITION AND CONSTRUCTION.
- REBALANCE EXISTING AIR AND WATER SYSTEMS ASSOCIATED WITH RENOVATIONS, INCLUDING ALL RENOVATED AREAS AND ALL AREAS AFFECTED BY SYSTEM MODIFICATIONS.
- REPLACE ALL INSULATION REMOVED AS PART OF MECHANICAL INSTALLATION OR MODIFICATION OF DUCTWORK, REGISTERS, GRILLES, DIFFUSERS, VALVES, COILS, FITTINGS AND PIPING.

HVAC

- PIPING AND DUCT WORK LAYOUTS AS INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC; PROVIDE ADDITIONAL TRANSITIONS AND OFFSETS AS REQUIRED FOR COORDINATION WITH BUILDING CONSTRUCTION AND THE WORK OF OTHER TRADES.
- PROVIDE VOLUME DAMPERS, THROTTLING VALVES AND ISOLATION VALVES AS SPECIFIED AND AS INDICATED ON THE DRAWINGS.
- PROVIDE FIRE DAMPERS AT DUCT PENETRATIONS OF FIRE RATED PARTITIONS.
- PROVIDE SMOKE DETECTORS ON THE SUPPLY AND RETURN SIDE OF ALL AIR HANDLING EQUIPMENT 2000 CFM AND OVER.
- ALL MOTORS AND EQUIPMENT SHALL BE OF EFFICIENCIES THAT ARE ELIGIBLE FOR UTILITY COMPANY ENERGY INCENTIVE PROGRAMS.
- THE AUTOMATIC TEMPERATURE CONTROL SYSTEM SHALL BE COMPLETE IN ALL REGARDS, TESTED AND CAPABLE OF ACHIEVING THE SEQUENCES OF OPERATION. ALL DEVICES SHALL BE UNDER SYSTEM CONTROL. ALL ZONES SHALL BE THERMOSTATICALLY CONTROLLED WHETHER OR NOT A THERMOSTAT, SENSOR OR CONTROLLER IS INDICATED.
- MAINTAIN MANUFACTURER'S RECOMMENDED MINIMUM CLEARANCES FOR INSTALLATION OF EQUIPMENT.
- FLEX DUCT RUNS SHALL NOT BE LONGER THAN 5 FT.
- PROVIDE VOLUME DAMPERS AT ALL SUPPLY DIFFUSERS, RETURN GRILLES AND EXHAUST GRILLES.
- ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.
- PROVIDE ALL 90 DEGREE SQUARE ELBOWS WITH DOUBLE RADIUS TURNING VANES UNLESS OTHERWISE INDICATED. ELBOWS SHALL BE UNWAVED SMOOTH RADIUS CONSTRUCTION WITH A RADIUS EQUAL TO 1-1/2 TIMES THE WIDTH OF THE DUCT. PROVIDE ACCESS DOORS UPSTREAM OF ALL ELBOWS WITH TURNING VANES.
- COORDINATE DIFFUSER, REGISTER AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING AND OTHER CEILING ITEMS.
- PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS CONNECTED TO AIR HANDLING UNITS, FANS AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.
- 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.
- PROVIDE ACCESS DOORS IN DUCTWORK TO PROVIDE ACCESS FOR ALL SMOKE DETECTORS, FIRE DAMPERS, SMOKE DAMPERS, VOLUME DAMPERS, COILS AND OTHER ITEMS LOCATED IN DUCTWORK WHICH REQUIRE SERVICE OR INSPECTION.
- PROVIDE ACCESS DOORS IN DUCTWORK FOR OPERATION, ADJUSTMENT AND MAINTENANCE OF ALL FANS, VALVES AND MECHANICAL EQUIPMENT.
- PROVIDE FLEXIBLE DUCT CONNECTIONS TO ALL MECHANICAL AIR MOVING DEVICES.
- PROVIDE AUXILIARY CONDENSATE PANS FOR COOLING COILS. DISCHARGE SECONDARY CONDENSATE PIPING TO VISIBLE LOCATION.
- SEISMICALLY RESTRAIN ALL MECHANICAL EQUIPMENT AS REQUIRED PER CODE. CONTRACTOR SHALL OBTAIN SERVICES OF REGISTERED PROFESSIONAL ENGINEER TO PROVIDE ANALYSIS AND CALCULATIONS IN DETERMINING EQUIPMENT TO BE RESTRAINED.
- BMS CONTRACTOR SHALL PROVIDE WEB ACCESS TO ENGINEER FOR MONITORING OF BUILDING POST CONSTRUCTION.
- PROVIDE 1", NON-POROUS DUCT LINING ON FIRST 15 FT OF SUPPLY AND RETURN DUCTS INTO ALL AIR HANDLING EQUIPMENT, ROOF TOP UNITS, FURNACES AND SPLIT SYSTEMS.

PIPING

- UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF STRUCTURE OR SLAB, WITH SPACE FOR INSULATION IF REQUIRED.
- INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
- UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.
- 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.
- PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE TO THE EQUIPMENT AS POSSIBLE.
- PAINT ALL EXPOSED GAS PIPING YELLOW.
- PROVIDE PIPING ANCHORS AND GUIDES FOR ALL ROOF MOUNTED PIPING.
- SEISMICALLY RESTRAIN ALL PIPING AS REQUIRED PER CODE. CONTRACTOR SHALL OBTAIN SERVICES OF REGISTERED PROFESSIONAL ENGINEER TO PROVIDE ANALYSIS AND CALCULATIONS IN DETERMINING PIPING TO BE RESTRAINED.
- CONTRACTOR SHALL ENGAGE SERVICES OF PROFESSIONAL ENGINEER WITH EXPERTISE IN SEISMIC VIBRATION AND ISOLATION CONTROLS. ENGINEER SHALL DETERMINE ALL LOCATIONS, TYPES AND REQUIREMENTS OF SEISMIC CONTROLS, PIPING EXPANSION AND VIBRATION CONTROLS.
- INSULATE ALL PIPING INCLUDED BUT NOT LIMITED TO REFRIGERANT PIPING, CONDENSATE PIPING, HOT WATER SUPPLY AND RETURN, STEAM SUPPLY AND CONDENSATE RETURN. PIPING INSULATION THICKNESS SHALL CONFORM TO THE CURRENT INTERNATIONAL ENERGY CODE.

PHASING NOTES

- WORK SHALL BE PHASED TO ALLOW OWNER TO CONTINUE BUSINESS OPERATIONS DURING THE CONSTRUCTION PERIOD. COORDINATE WORK WITH OWNER AND GENERAL CONTRACTOR TO ALLOW SUFFICIENT TIME TO RELOCATE OPERATIONS WITHIN THE BUILDING PRIOR TO COMMENCING WORK IN AREAS AFFECTED BY DEMOLITION OR NEW CONSTRUCTION.
- WORK REQUIRING INTERRUPTION OF ESSENTIAL BUILDING SERVICES SHALL BE PERFORMED DURING UNOCCUPIED PERIODS (AFTER BUSINESS HOURS). ESSENTIAL SERVICES SHALL INCLUDE BUT NOT BE LIMITED TO VENTILATION, WATER AND SEWER SERVICE, POWER, TELECOMMUNICATIONS. HEATING AND AIR CONDITIONING SHALL BE CONSIDERED TO BE ESSENTIAL WHEN CONDITIONS WILL CAUSE TEMPERATURES IN THE BUILDING TO FALL BELOW 68°F OR EXCEED 78°F.

ABBREVIATIONS

(NOT ALL SYMBOLS ARE USED)

###	CFM	FA	FACE AREA	NO	NORMALLY OPEN
ABV	ABOVE	FBO	FURNISHED BY OTHERS	NTS	NOT TO SCALE
AC	AIR COMPRESSOR		INSTALLED BY HVAC SUBCONTRACTOR	OA	OUTSIDE AIR
ACU-#	AIR CONDITIONING UNIT	FCU	FORWARD CURVE	OAT	OUTDOOR AIR TEMPERATURE
AD	ACCESS DOOR	FCU	FAN COIL UNIT	OAI	OUTDOOR AIR INTAKE
AF	AIRFOIL	FD	FIRE DAMPER WITH ACCESS DOOR	OSD	OPPOSED BLADE DAMPER
AFC	ADJUSTABLE FREQUENCY CONTROLLER	FF	FINAL FILTER	OD	OUTSIDE DIMENSION
AFF	ABOVE FINISHED FLOOR	FIBO	FURNISHED AND INSTALLED BY OTHERS	O.E. T.D.	OPEN END TRANSFER DUCT
AFMS	AIR FLOW MEASURING STATION	FIN FL	FINISH FLOOR	P-#	PUMP
AHU-#	AIR HANDLING UNIT	FL	FLOOR	PB	PUSH BUTTON
AL	ACOUSTIC LINING	FLA	FULL LOAD AMPERES	PBD	PARALLEL BLADE DAMPER
ALD	AUTOMATIC LOUVER DAMPER	FLEX	FLEXIBLE	PD	PRESSURE DROP
APD	AIR PRESSURE DROP	FFP	FINS PER FOOT	PF	PREFILTER
AUTO	AUTOMATIC	FFV	FAN POWERED VAV BOX	PH	PHASE
B-#	BOILER	FT	FEET	PHC	PREHEAT COIL
BC	BACKWARD CURVED	F.T.	FLOAT & THERMOSTATIC TRAP	PPH	POUND PER HOUR
BD	BELT DRIVE	FIN	FIN TUBE RADIATION	PRV	PRESSURE REDUCING VALVE
BMCS	BUILDING MANAGEMENT & CONTROL SYSTEM	FV	FACE VELOCITY	PSI	POUND PER SQUARE INCH
BT	INVERTED BUCKET TRAP	GC	GENERAL CONTRACTOR	RA	RETURN AIR
BTU	BRITISH THERMAL UNIT	GH	GRAVITY INTAKE HOOD	RAF-#	RETURN AIR FAN
C-#	CHILLER	GPH	GALLONS PER HOUR	RAT	RETURN AIR TEMPERATURE
CAP	CAPACITY	GPM	GALLONS PER MINUTE	REG	REGISTER
CB-#	CHILLED BEAM	GWLS	GEOTHERMAL WATER LOOP SUPPLY	RH	RELATIVE HUMIDITY
CC-#	COOLING COIL	GWL/R	GEOTHERMAL WATER LOOP RETURN	RHC	REHEAT COIL
H/C	HEATING/COOLING	H/C	HEATING/COOLING	RM	ROOM
CFM	CUBIC FEET PER MINUTE	H-#	HUMIDIFIER	RP	RADIANT PANEL
CG	CEILING GRILLE	H-O-A	HAND-OFF-AUTOMATIC	RPM	REVOLUTIONS PER MINUTE
CLG	CEILING	HC-#	HEATING COIL	RS	RISE
CONV-#	HOT WATER CONVECTOR	hd	FEET OF HEAD	RTU-#	ROOFTOP AIR CONDITIONING UNIT
CP	CONDENSATE RECEIVER/PUMPING SYSTEM	HP	HORSEPOWER	SA	SUPPLY AIR
CR	CEILING REGISTER	HTG	HEATING	SAP-#	SUPPLY AIR FAN
CR	CEILING REGISTER	HTG	HEATING	SAT	SUPPLY AIR TEMPERATURE
CTD	CEILING TRANSFER DUCT	HV-#	HEATING AND VENTILATING UNIT	SB	SECURITY BARS
CUH-#	CABINET UNIT HEATER HOT WATER	HVAC	HEATING, VENTILATING & AIR CONDITIONING	VSC	VERTICAL SPLIT CASE
CV	CONTROL VALVE	HX-#	HEAT EXCHANGER CONVERTOR	HSC	HORIZONTAL SPLIT CASE
CW	COLD WATER	ID	INSIDE DIMENSION	SD	SMOKE DAMPER
D&T	DRIP AND TRAP	IN	INCHES	SG	SUPPLY GRILLE
DB	DECIBELS	IN	INCHES	SG	STATIC PRESSURE
DB	DRY BULB	IV	INLET GUIDE VANES	SP	SQUARE FOOT (AREA)
DD	DIRECT DRIVE	KW	KILOWATT	ST	SINGLE POLE SWITCH
DDC	DIRECT DIGITAL CONTROL	MBH	THOUSAND BTU'S PER HOUR	W/THERMAL	OVERLOAD
DIFF	DIFFUSER	LD	LINEAR DIFFUSER	SWR	SIDE WALL REGISTER
DL	DOOR LOUVER	LIN	LINEAR	TSTAT	THERMOSTAT
LRA	LOCKED ROTOR AMPERES	LRA	LOCKED ROTOR AMPERES	TD	TEMPERATURE DIFFERENCE
DN	DOWN	LPR	LOW PRESSURE RETURN	TEMP	TEMPERATURE
DOAS	DEDICATED OUTDOOR AIR SYSTEM	LPS	LOW PRESSURE SUPPLY	TC	AIR TRANSFER GRILLE
DP	DEWPOINT TEMPERATURE	LVG	LEAVING	TOT	TOTAL
DR	DROP	LWT	LEAVING WATER TEMPERATURE	TN-HR	TON HOUR REFRIGERATION
DTWS	DUAL TEMPERATURE WATER SUPPLY	MAN	MANUAL	TRD	TRANSFER DUCT
DTWR	DUAL TEMPERATURE WATER RETURN	MAX	MIXED AIR TEMPERATURE	TT	THERMOSTATIC TRAP
DX	DIRECT EXPANSION	MAT	MAXIMUM	TYF	TYPICAL
EF-#	EXHAUST FAN	MBH	1000 BTU'S	UC	UNDERCUT DOOR
EAT	ENTERING AIR TEMPERATURE	MCA	MINIMUM CIRCUIT AMPACITY	UH-#	UNIT HEATER HOT WATER
EER	ENERGY EFFICIENCY RATIO	MD	MOTORIZED DAMPER	UV-#	UNIT VENTILATOR
EG	EXHAUST GRILLE	MER	MECHANICAL EQUIPMENT ROOM	VD	VOLUME DAMPER
EHC-#	ELECTRIC HEATING COIL	MEZZ	MEZZANINE	VE	VOLUME EXTRACTOR
ENT	ENTERING	MN	MINIMUM	VFD	VARIABLE FREQUENCY DRIVE
HEPA	HIGH EFFICIENCY PARTICULATE FILTER	MOT	MOTOR	VI	VIBRATION ISOLATOR
ER	EXHAUST REGISTER	MUA	MAKE-UP AIR	VSF	VARIABLE SPEED FAN SWITCH
ES	END SUCTION	MV	MOTORIZED VALVE	W/	WITH
ESP	EXTERNAL STATIC PRESSURE	NC	NORMALLY CLOSED	WB	WET BULB
ET-#	EXPANSION TANK	NF	NOISE CRITERIA	WFM	WATER FLOW MEASURING STATION
EUH-#	ELECTRIC UNIT HEATER	NFA	NET FREE AREA	WMS	WIRE MESH SCREEN
EWT	ENTERING WATER TEMPERATURE	NFC	NET FREE AREA	WPD	WATER PRESSURE DROP
EXT	EXTERMINAL	NIC	NOT IN THIS CONTRACT	WT	WEIGHT (LBS)
FXH	FACE & BYPASS DAMPER			ZD	ZONE DAMPER
F&B	FACE & BYPASS DAMPER				

SYMBOL LEGEND

(NOT ALL SYMBOLS ARE USED)

	PRESSURE/TEMPERATURE PORT		PIPE UNION		MECHANICAL NOTE REFERENCE. NUMBER INDICATES NOTE
	TEMPERATURE GAUGE/TEMPERATURE INDICATOR		AIR VENT, AUTOMATIC		CUBIC FEET PER MINUTE
	PRESSURE GAUGE		AIR VENT, MANUAL		DUCT STATIC PRESSURE
	BUTTERFLY VALVE		PUMP OR FAN		VOLUME DAMPER
	SHUT-OFF VALVE		STRAINER		BACKDRAFT DAMPER
	ANGLE GATE VALVE		STRAINER, BLOW OFF		DUCT STATIC PRESSURE SENSOR
	GLOBE VALVE		1" DOOR UNDERCUT		MOTORIZED DAMPER
	BALL OR BUTTERFLY VALVE		RETURN GRILLE		SUPPLY OR OUTSIDE AIR DUCT UP OR CSD
	ANGLE GLOBE VALVE		THERMOSTAT OR SPACE TEMPERATURE SENSOR		SUPPLY OR OUTSIDE AIR DUCT DOWN
	TWO WAY MOTORIZED CONTROL VALVE		PRESSURE SENSOR		RETURN OR EXHAUST DUCT UP OR CRG/CRR
	THREE WAY MOTORIZED CONTROL VALVE		DIRECTION OF FLOW		RETURN OR EXHAUST DUCT DOWN
	CHECK VALVE		METER		FLEXIBLE CONNECTION
	OS & Y		DIA. OR Ø		DUCT TRANSITION
	SAFETY RELIEF VALVE (PRESS. & TEMP.)		THERMOMETER		RECTANGULAR TO ROUND TRANSITION
	DRAIN VALVE W/ HOSE COUPLING W/CAP		PIPE TEE, OUTLET UP		DUCT WORK, DIRECTION OF FLOW
	CAP		PIPE ELBOW, TURNED UP		POSITIVE PRESSURE DUCT
	PIPE CONNECTION BOTTOM		PIPE TEE, OUTLET DOWN		NEGATIVE PRESSURE DUCT
	PIPE CONNECTION TOP		HOT WATER SUPPLY		CHANGE OF ELEVATION, RISE (R) DROP (D)
	PIPE COUPLING (JOINT)		HOT WATER RETURN		LINED DUCT WORK
	ELBOW, 90°		CONDENSER WATER SUPPLY		SINGLE LINE LINED DUCT WORK
	PIPE ELBOW, TURNED DOWN		CONDENSER WATER RETURN		DIRECTION OF SUPPLY OR OUTSIDE AIR
	PIPE TEE		POINT OF CONNECTION		DIRECTION OF RETURN OR EXHAUST AIR
	CALIBRATED BALANCING VALVE		RETURN OR EXHAUST DUCT UP		AIR TERMINAL UNIT
	HUMIDISTAT/HUMIDITY SENSOR		SUPPLY OR OUTSIDE AIR DUCT UP		DUCT SMOKE DETECTOR
	DUCT MOUNTED HUMIDITY SENSOR		SMOKE DAMPER		FIRE DAMPER WITH ACCESS DOOR AS REQUIRED
	DUCT MOUNTED CARBON DIOXIDE SENSOR		COMBINATION FIRE AND SMOKE DAMPER		DUCT ACCESS DOOR
	HOT WATER SUPPLY		45° CHILLED WATER SYSTEM SUPPLY		57° CHILLED WATER SYSTEM SUPPLY
	HOT WATER RETURN		45° CHILLED WATER SYSTEM RETURN		57° CHILLED WATER SYSTEM RETURN
	PIPE ANCHOR		PIPE GUIDE		

Project Title:

TOWN OF CROMWELL
CROMWELL BELDEN PUBLIC LIBRARY
39 WEST STREET
CROMWELL, CT 06416



SILVER / PETRUCELLI + ASSOCIATES
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Revision:

Description:

Date:

Revised By:

Drawing Title:

Mechanical General Notes

Date:

7/17/19

Scale:

1/8" = 1'-0"

Drawn By:

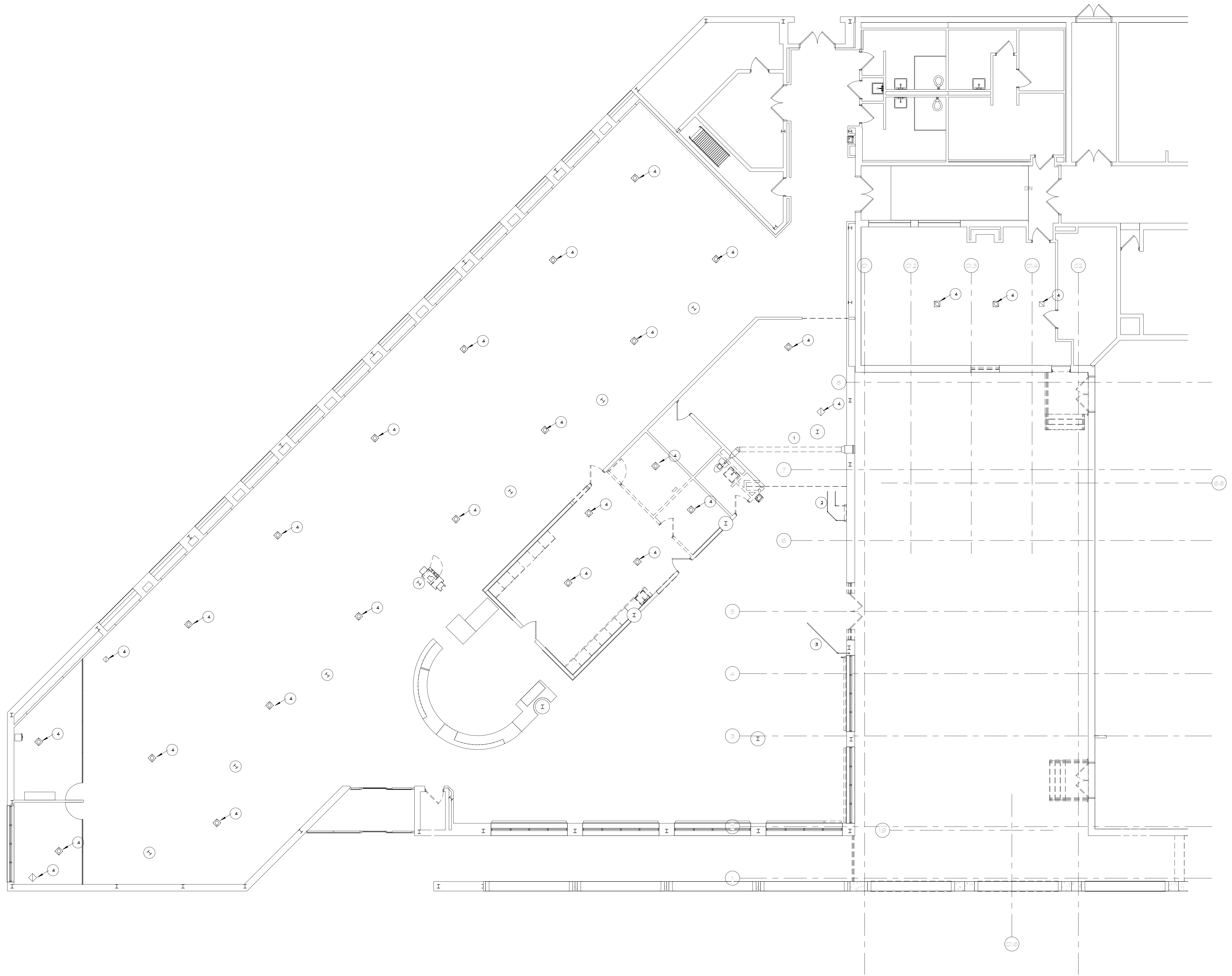
MJC

Project Number:

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M000



PLAN NOTES

- 1 REMOVE EXISTING EXHAUST FAN, ASSOCIATED WIRING AND CONTROLS, DUCTWORK AND LOUVER PATCH AND REPAIR OPENINGS.
- 2 REMOVE EXISTING SECTION OF FINNED TUBE RADIATION AND ASSOCIATED PIPING, CAP PIPING ABOVE CEILING.
- 3 REMOVE EXISTING SECTION OF FINNED TUBE RADIATION, RECONNECT NEW PIPING TO EXISTING FINNED TUBE RADIATION IN CORNER.
- 4 REMOVE EXISTING DIFFUSER/GRILLE, LEAVE DUCTWORK IN PREPARATION FOR REPLACEMENT DIFFUSER/GRILLE.

1 LIBRARY FLOOR MECHANICAL DEMO
1/10/00 SCALE 1/8" = 1'-0"

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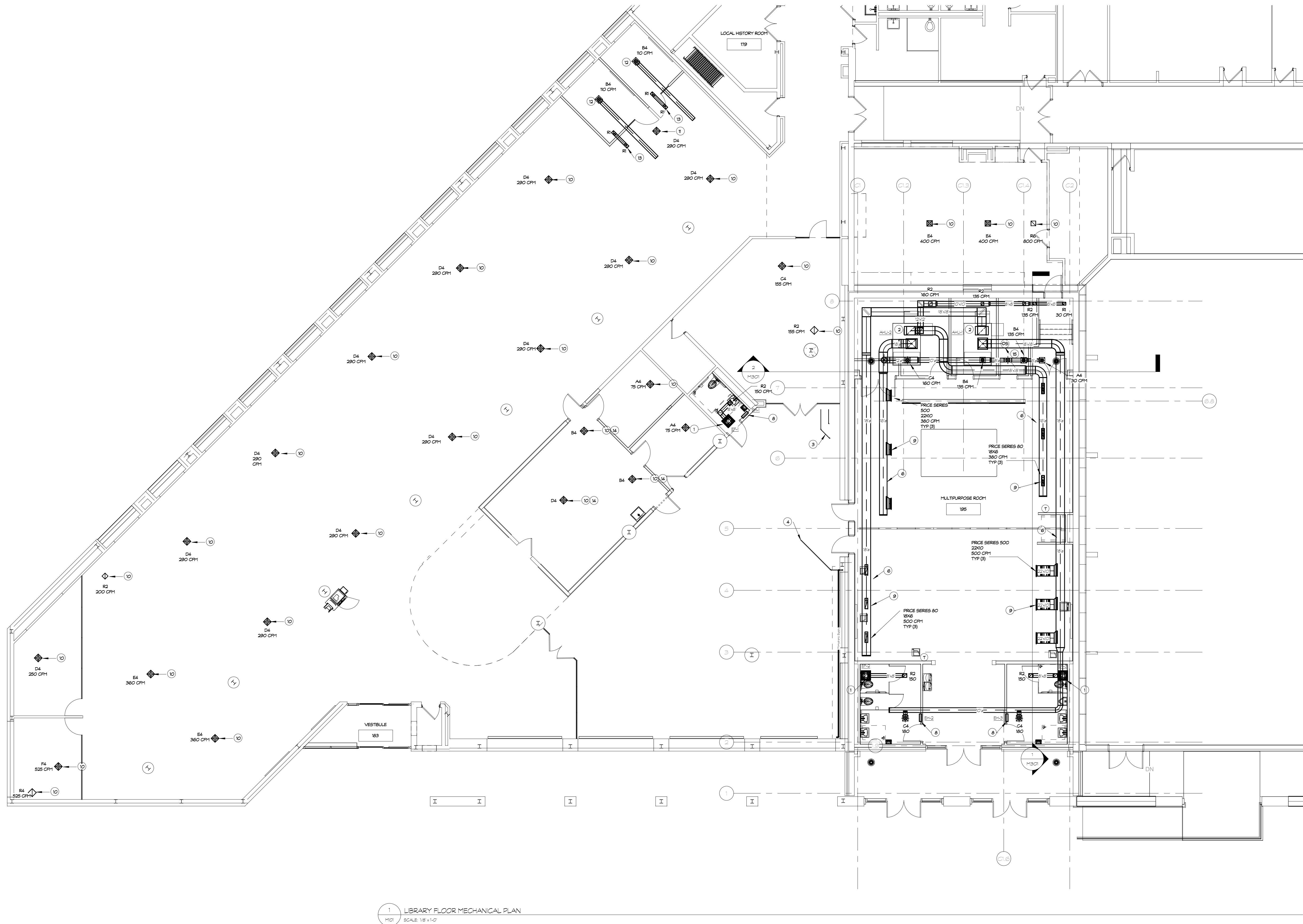
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Drawing Title:
Mechanical Demolition

Date: 7/17/08
Scale: 1/8" = 1'-0"
Drawn By:
Author:
Project Number:
Project Number:

MD100



- PLAN NOTES
1. PROVIDE NEW EXHAUST FAN. PROVIDE ROOF CURB WHICH MATCHES PITCH OF ROOF. PROVIDE DUCTWORK FROM FAN CONNECTION INTO CEILING SPACE BELOW. CONNECT TO EXHAUST GRILLE AND BALANCE TO CFM INDICATED.
 2. PROVIDE NEW GAS FRED. DX COOLING PACKAGED ROOF TOP UNIT. MOUNT ON ROOF CURB. MANTAIN MANUFACTURERS RECOMMENDED CLEARANCES. GUT, PATCH AND REPAIR OPENINGS IN ROOF. PROVIDE CONDENSATE DRAIN FROM COOLING COIL. DRAIN RAN AND DISCHARGE ON ROOF. INTEGRATE UNITS CONTROLS INTO EXISTING CARRIER BMS SYSTEM. PROVIDE ALL COMMUNICATIONS CABLES, GATEWAYS, PROGRAMMING, WIRING AND DEVICES AS REQUIRED. REFER TO PLUMBING DRAWINGS FOR GAS PIPING CONNECTION. PROVIDE SHUT OFF VALVE AND PRESURE LOSS AT CONNECTION TO HEATING SECTION.
 3. RECONNECT 1 HOT WATER SUPPLY PIPING IN CEILING TO EXISTING FINED TUBE RADIATION.
 4. PROVIDE VOLUME DAMPERS AT ALL SUPPLY, RETURN AND EXHAUST GRILLES.
 5. ROUTE DUCTWORK WITHIN TRUSSES IN SOFFIT.
 6. INTEGRATE NEW ROOFTOP UNITS INTO EXISTING CARRIER BMS SYSTEM. PROVIDE ALL CONTROLLERS, DEVICES, WIRING AND PROGRAMMING.
 7. PROVIDE NEW WALL MOUNTED ELECTRIC WALL HEATER. COORDINATE WITH ARCHITECT FOR MOUNTING HEIGHTS, PATCH AND REPAIR WALL OPENINGS.
 8. SIDEWALL GRILLES TO BE CUSTOM PAINTED TO MATCH WALL/SOFFT. COORDINATE WITH ARCHITECTS SPECIFICATIONS FOR EXACT COLOR.
 9. REPLACE EXISTING DIFFUSER/GRILLE AS INDICATED. BALANCE TO CFM SHOWN.
 10. RELOCATE AND REPLACE EXISTING DIFFUSER/GRILLE AS INDICATED. BALANCE TO CFM SHOWN.
 11. PROVIDE NEW CEILING SUPPLY DIFFUSER. PROVIDE BALANCING DAMPER AND BALANCE TO CFM INDICATED. CONNECT TO EXISTING SUPPLY DUCT IN CEILING OF LIBRARY. EXTEND DUCTWORK AS REQUIRED.
 12. PROVIDE (2) NEW CEILING TRANSFER GRILLES. SIZE AS INDICATED. CONNECT WITH ONE DUCT IN CEILING SPACE.
 13. PROPORTIONALLY BALANCE DIFFUSERS TO 35 CFM BASED ON SIZE OF INLETS.
 14. PROVIDE DUCT SMOKE DETECTOR.

1 LIBRARY FLOOR MECHANICAL PLAN
SCALE 1/8" = 1'-0"

Project Title:
TOWN OF CROMWELL
CROMWELL BELDEN PUBLIC LIBRARY
39 WEST STREET
CROMWELL, CT 06416



SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers

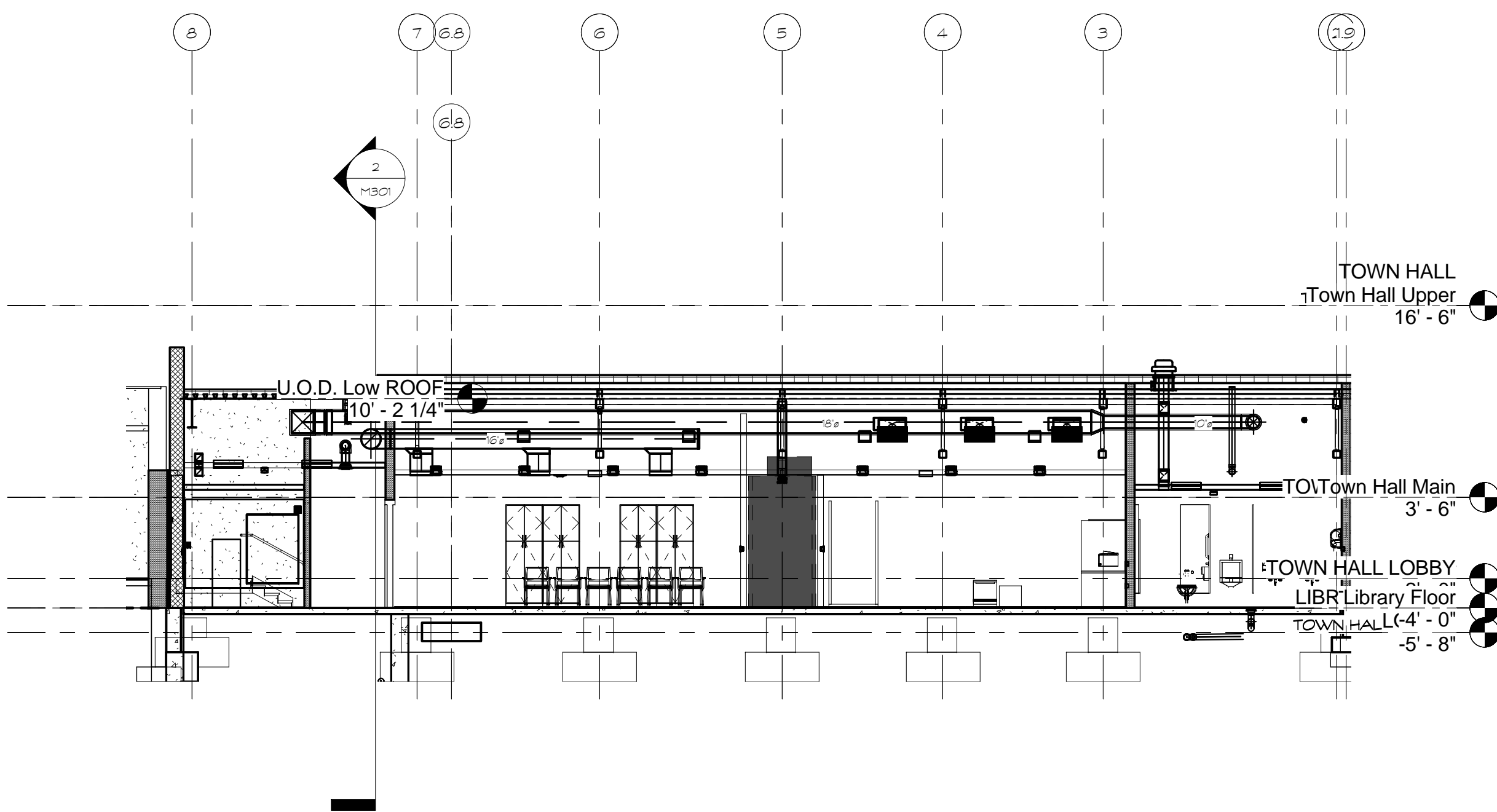
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Revision:	Description:	Date:	Revised By:

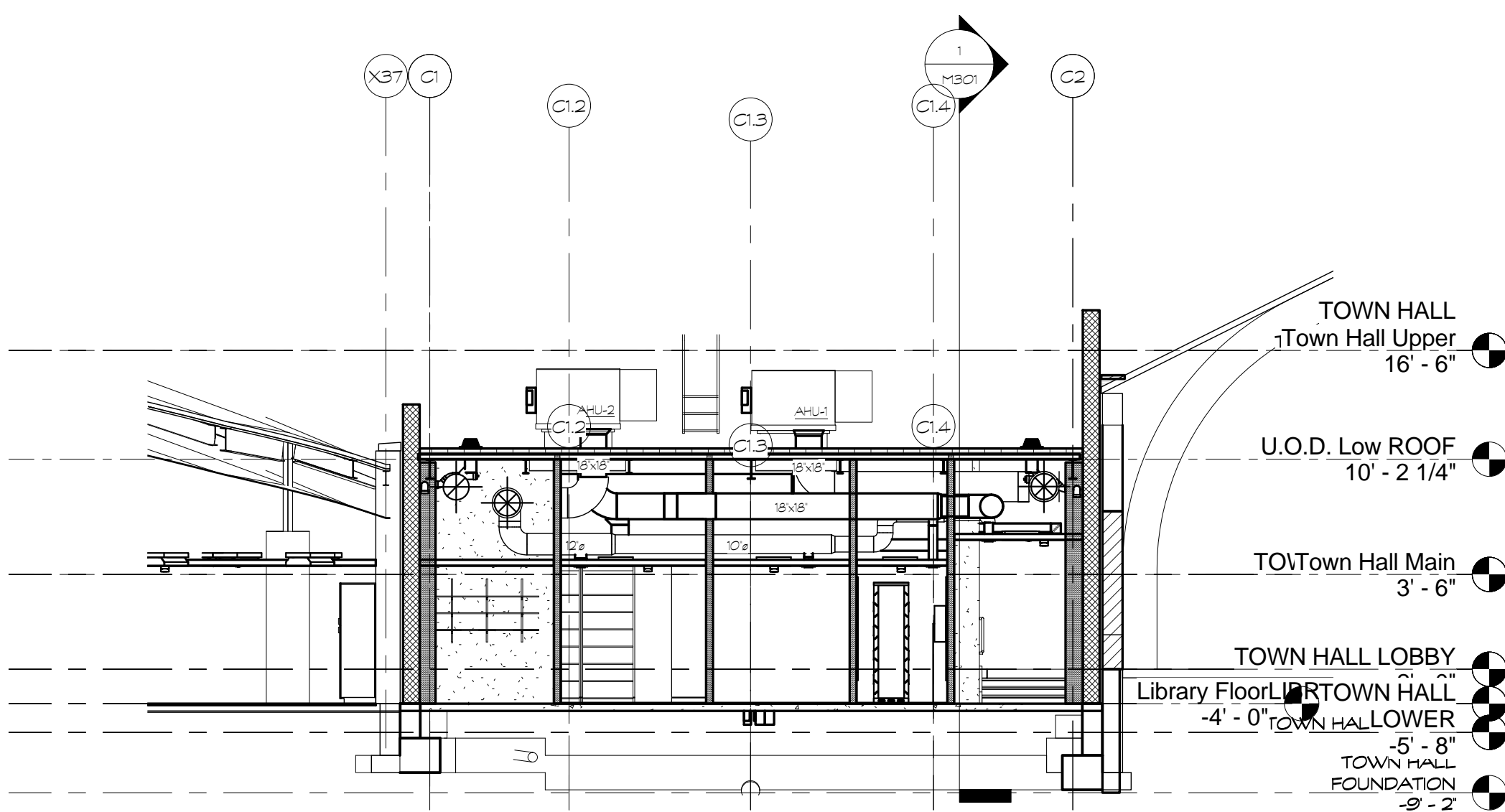
Drawing Title:
Mechanical Plan

Date:
7/17/18
Scale:
1/8" = 1'-0"
Drawn By:
MJC
Project Number:
Project Number:

M101



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



2 Section 2
SCALE 1/8" = 1'-0"

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39 WEST STREET
CROMWELL, CT 06416



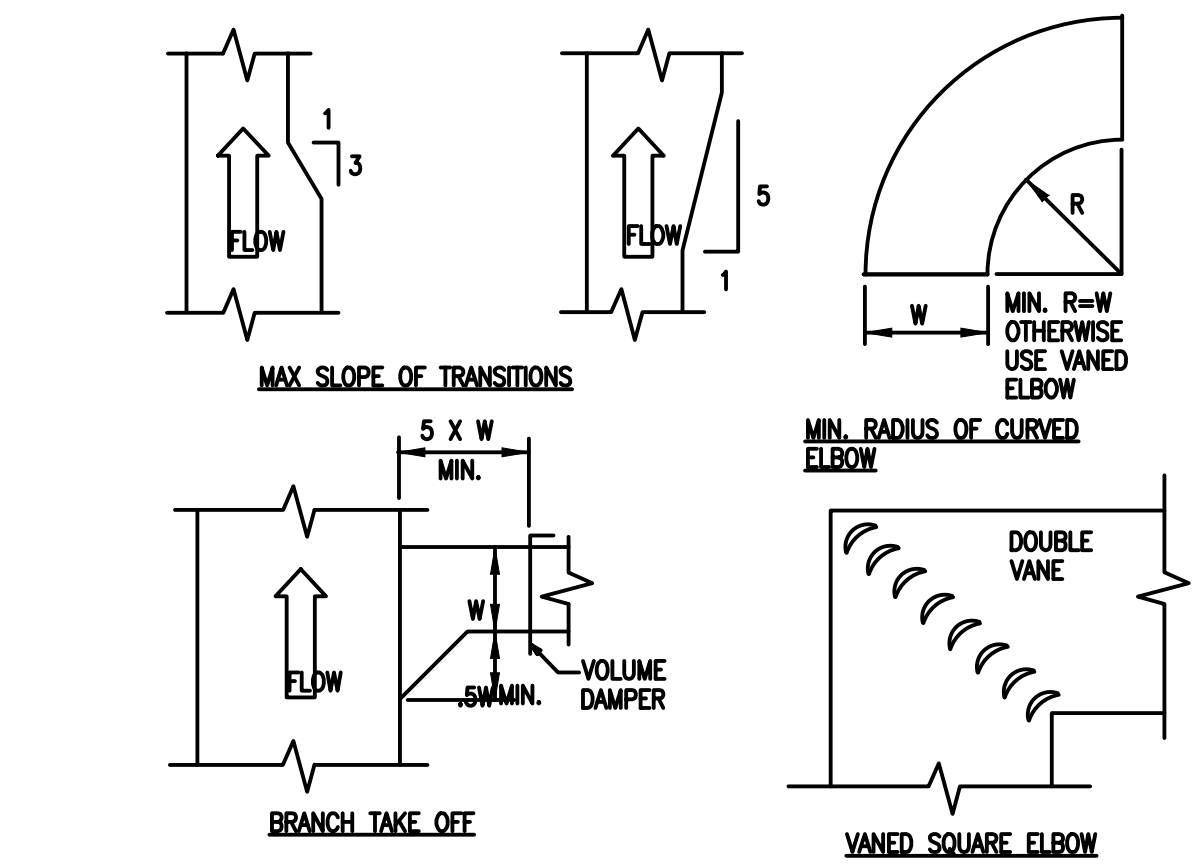
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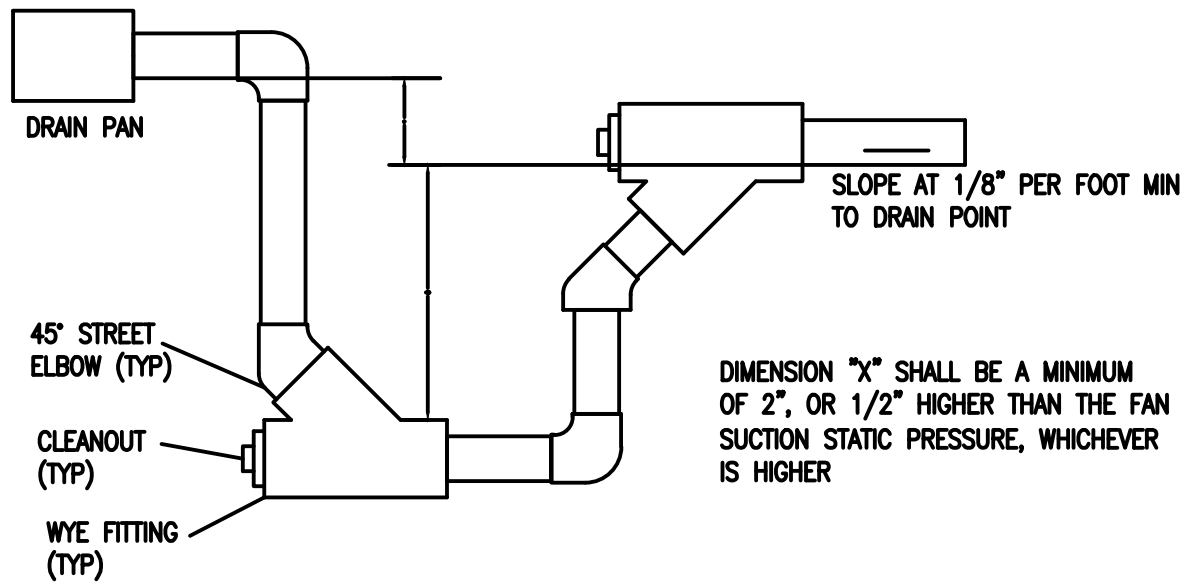
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Mechanical Sections

Date:
7/17/18
Scale:
1/8" = 1'-0"
Drawn By:
MJC
Project Number:
Project Number

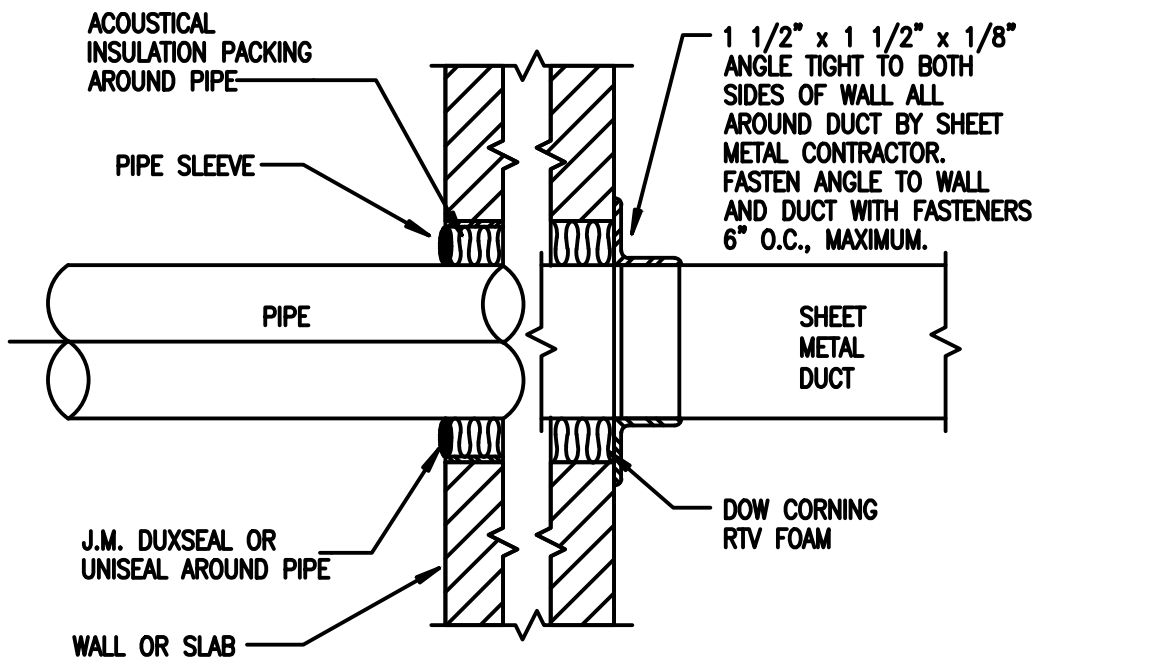
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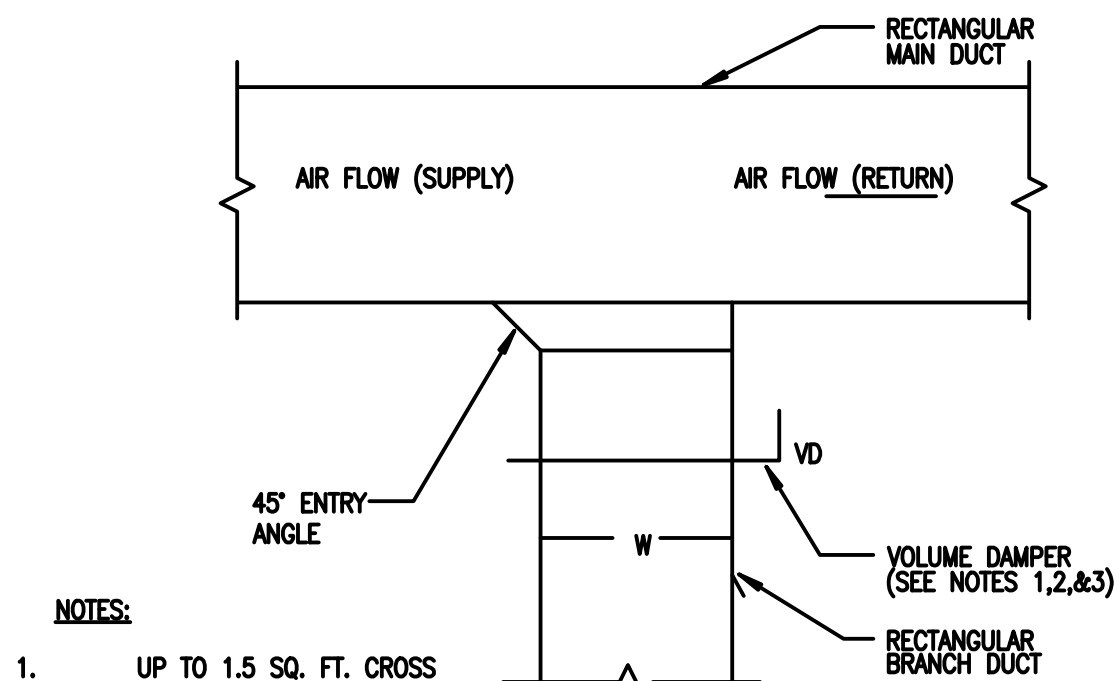
DUCT CONSTRUCTION DETAIL
NOT TO SCALE



COOLING COIL CONDENSATE TRAP DETAIL
NOT TO SCALE





ACOUSTIC CAULKING OF DUCTS AND PIPES
NOT TO SCALE



- NOTES:
- UP TO 1.5 SQ. FT. CROSS SECTIONAL AREA AND NOT EXCEEDING 24" IN WIDTH, USE SINGLE BLADE VOLUME DAMPER.
 - FOR CROSS SECTIONAL AREAS FROM 1.5 TO 3.0 SQ. FT. AND NOT EXCEEDING 24" IN WIDTH, USE 3 SINGLE BLADE VOLUME DAMPERS INDIVIDUALLY OPERATED TO FUNCTION IN AN OPPOSED MANNER.
 - FOR CROSS SECTIONAL AREAS GREATER THAN 3.0 SQ. FT. AND/OR EXCEEDING 24" IN WIDTH, USE GANG OPERATED OPPOSED BLADE VOLUME DAMPER AND FRAME ASSEMBLY.

RECTANGULAR DUCT TAKEOFF DETAIL
NOT TO SCALE

REGISTERS, GRILLES AND DIFFUSERS							
TAG	SIZE	TYPE	NECK #	CFM	MAX. TOTAL PRESSURE (IN. WG.)	MAX. MC	MANUFACTURER & MODEL NO.
A	6X6	CEILING DIFFUSER	6"	0-120	0.131	21	PRICE 4 WAY ADJUSTABLE, LAY IN SUPPLY DIFFUSER - 24X24 LOUVER FACE
B	9X9	CEILING DIFFUSER	6"	121-155	0.103	21	PRICE 4 WAY ADJUSTABLE, LAY IN SUPPLY DIFFUSER - 24X24 LOUVER FACE
C	12X12	CEILING DIFFUSER	8"	156-245	0.080	20	PRICE 4 WAY ADJUSTABLE, LAY IN SUPPLY DIFFUSER - 24X24 LOUVER FACE
D	12X12	CEILING DIFFUSER	12"	246-390	0.092	20	PRICE 4 WAY ADJUSTABLE, LAY IN SUPPLY DIFFUSER - 24X24 LOUVER FACE
E	15X15	CEILING DIFFUSER	12"	391-471	0.085	22	PRICE 4 WAY ADJUSTABLE, LAY IN SUPPLY DIFFUSER - 24X24 LOUVER FACE
F	18X18	CEILING DIFFUSER	14"	472-640	0.080	22	PRICE 4 WAY ADJUSTABLE, LAY IN SUPPLY DIFFUSER - 24X24 LOUVER FACE
G	18X18	CEILING DIFFUSER	16"	641-977	0.109	29	PRICE 4 WAY ADJUSTABLE, LAY IN SUPPLY DIFFUSER - 24X24 LOUVER FACE
R1	6X8	RETURN GRILLE		0-105	0.050	20	PRICE EGG CRATE RETURN/EXHAUST GRILLE
R2	8X8	RETURN GRILLE		106-260	0.073	20	PRICE EGG CRATE RETURN/EXHAUST GRILLE
R3	10X10	RETURN GRILLE		261-355	0.054	20	PRICE EGG CRATE RETURN/EXHAUST GRILLE
R4	12X12	RETURN GRILLE		356-530	0.054	20	PRICE EGG CRATE RETURN/EXHAUST GRILLE
R5	14X14	RETURN GRILLE		531-735	0.054	20	PRICE EGG CRATE RETURN/EXHAUST GRILLE
R6	16X16	RETURN GRILLE		736-810	0.054	20	PRICE EGG CRATE RETURN/EXHAUST GRILLE
R7	20X20	RETURN GRILLE		811-1285	0.054	20	PRICE EGG CRATE RETURN/EXHAUST GRILLE
R8	22X22	RETURN GRILLE		1286-1570	0.054	20	PRICE EGG CRATE RETURN/EXHAUST GRILLE
R9	24X24	RETURN GRILLE		1600	0.054	20	PRICE EGG CRATE RETURN/EXHAUST GRILLE

- PROVIDE BORDER FOR LAY-IN OR SURFACE MOUNT AS REQUIRED.
 - DUCT RUNOUTS SHALL BE AS INDICATED ON PLAN.
 - AIR PATTERN INDICATED ON PLAN.
- DIFFUSER LEGEND: TAG  PATTERN: 1-WAY, 2-WAY, 3-WAY, 4-WAY
- LEGEND: TAG  NO PATTERN ON RETURN GRILLES, NO PATTERN ON SIDEWALL GRILLES
- PROVIDE MFG'S SQUARE TO ROUND TRANSITION FOR DIFFUSERS, FLEX DUCT SHALL NOT EXCEED 5'. PROVIDE 2" PLENUM & DUCT CONNECTION BEHIND RETURNS UNLESS OTHERWISE NOTED.
 - PROVIDE AIR VOLUME DAMPERS FOR EACH SUPPLY, AS REQUIRED.

EXHAUST FANS						
		CFM	SP (IN WG)	V/#	HP	WEIGHT
EF-1	GREENHECK G-065 VG	150	0.20	115/1	1/60	75
EF-2	GREENHECK G-065 VG	150	0.20	115/1	1/60	75
EF-3	GREENHECK G-065 VG	150	0.20	115/1	1/60	75

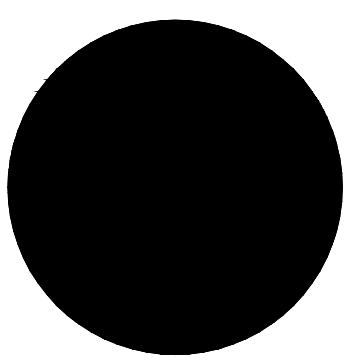
ROOF MOUNTED: PROVIDE WITH ROOF CURB, HINGED CURB CAP, ECM MOTOR, BACKDRAFT DAMPER, DISCONNECT SWITCH, MOTOR STARTER, BIRDSCREEN.

ELECTRIC WALL HEATERS					
		WATTS	BTUH	AMPS	WEIGHT
EH-1	MARLEY AWH 3180F	1800	5115	12.5	25
EH-2,3	MARLEY AWH 4408F	4000	13640	19.2	25

PROVIDE WITH TIME DELAY RELAY, 2" SEMI RECESSED MOUNTING SLEEVE, 14 GAUGE SECURITY FRONT COVER.

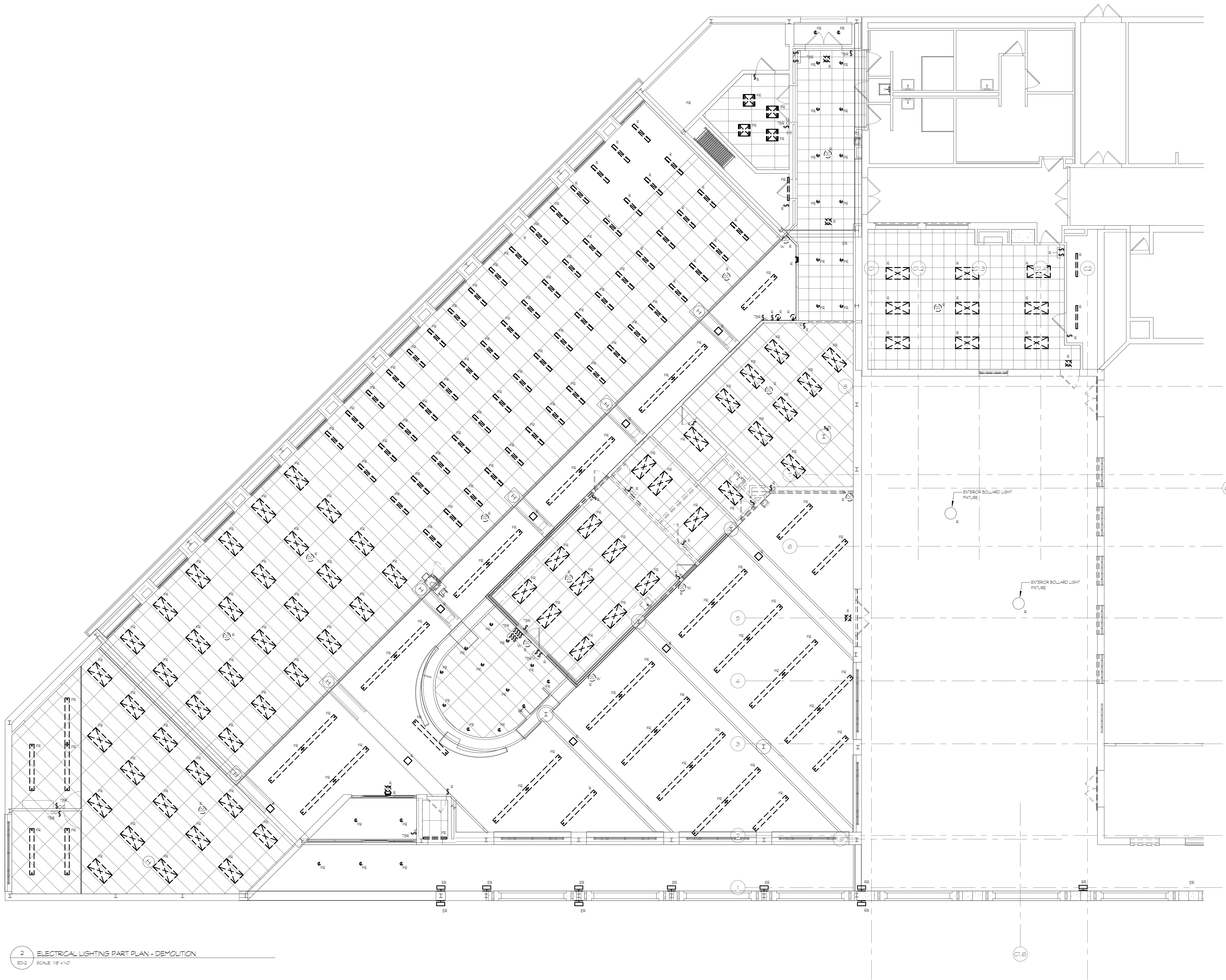
AIR HANDLING UNITS																				
		SUPPLY FAN						ELECTRICAL				D/X COOLING COIL				GAS HEATING			SMOKE	
		SA (CFM)	OA (CFM)	ESP (IN WG)	V/%	HP	V/%	MCA/MOCP	SC (MBH)	TC (MBH)	EDB/ENB	LDB/LWB	HTG (MBH)	EDB/LDB	TEMP RISE (°F)	STAGES	DETECTOR	WEIGHT		
AHU-1	SOUTH	JCI J4SZTS08P2D6BA4SA1	2000	215	0.60	208/3	1.5	208/3	47.4/60	46.5	63.3	80/67	58/57	80	50/90	30.1	FULLY MOD	YES	1500	
AHU-2	NORTH	JCI J44ZTS08P2D6BA4SA1	1600	190	0.60	208/3	1.5	208/3	44.3/50	37.7	52.4	80/67	56/56	80	60/86	37.6	FULLY MOD	NO	1560	

PROVIDE POWDER PAINTED STEEL CABINET, FULL PERIMETER BASE RAILS, RECIPROCATING COMPRESSOR, ENTHALPY CONTROLLED ECONOMIZER, FILTERS, SOLID CORE LIQUID LINE FILTER DRIERS, SINGLE POINT POWER CONNECTION, HACR CIRCUIT BREAKER/DISCONNECT, THROUGH THE CURB AND THROUGH THE BASE UTILITY CONNECTIONS, COMPOSITE DRAIN PAN, HINGED ACCESS DOORS, VIBRATION ISOLATION ROOF CURB, SERVICE OUTLET, GAS CONTROLLER, DUCT SMOKE DETECTOR, FULLY MODULATING GAS BURNER, POWER EXHAUST, VFD FOR SUPPLY FAN.



DEMOLITION KEY NOTES LEGEND

- BR EXISTING TO REMAIN
- FR EXISTING FIXTURE TO BE REPLACED WITH NEW. CONTRACTOR TO RETAIN OR EXTEND (WHERE APPLICABLE) WIRE, CONDUIT AND SWITCHING CIRCUIT AS REQUIRED TO SUIT NEW FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
- R EXISTING TO BE REMOVED UNLESS OTHERWISE INDICATED. REMOVE ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE.
- RE RELOCATED EXISTING.
- RR EXISTING TO BE REMOVED AND RELOCATED UNLESS OTHERWISE INDICATED. EXTEND ASSOCIATED WIRING AND CONDUIT TO NEW LOCATION.
- TBR EXISTING TOGGLE SWITCH AND COVER PLATE TO BE REPLACED WITH NEW. CONTRACTOR TO RETAIN BACKBOX, WIRING, SWITCHING CIRCUIT AND CONDUIT.



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Revision:	Description:	Date:	Revised By:

Drawing Title:
ELECTRICAL LIGHTING PART
PLAN - DEMOLITION

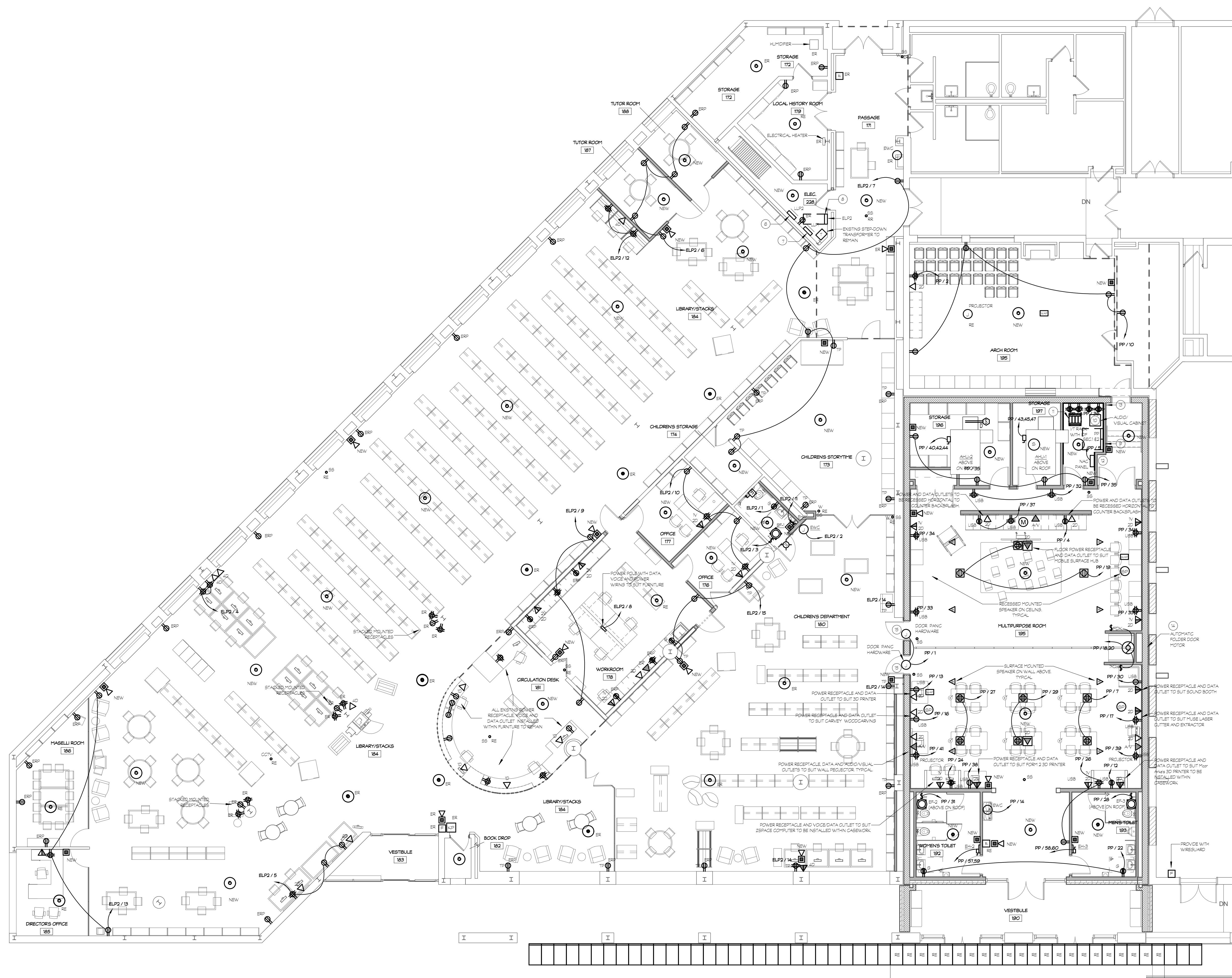
Date:
JULY 17, 2018
Scale:
1/8" = 1'-0"
Drawn By:
JRP
Project Number:
17.025

ED-2

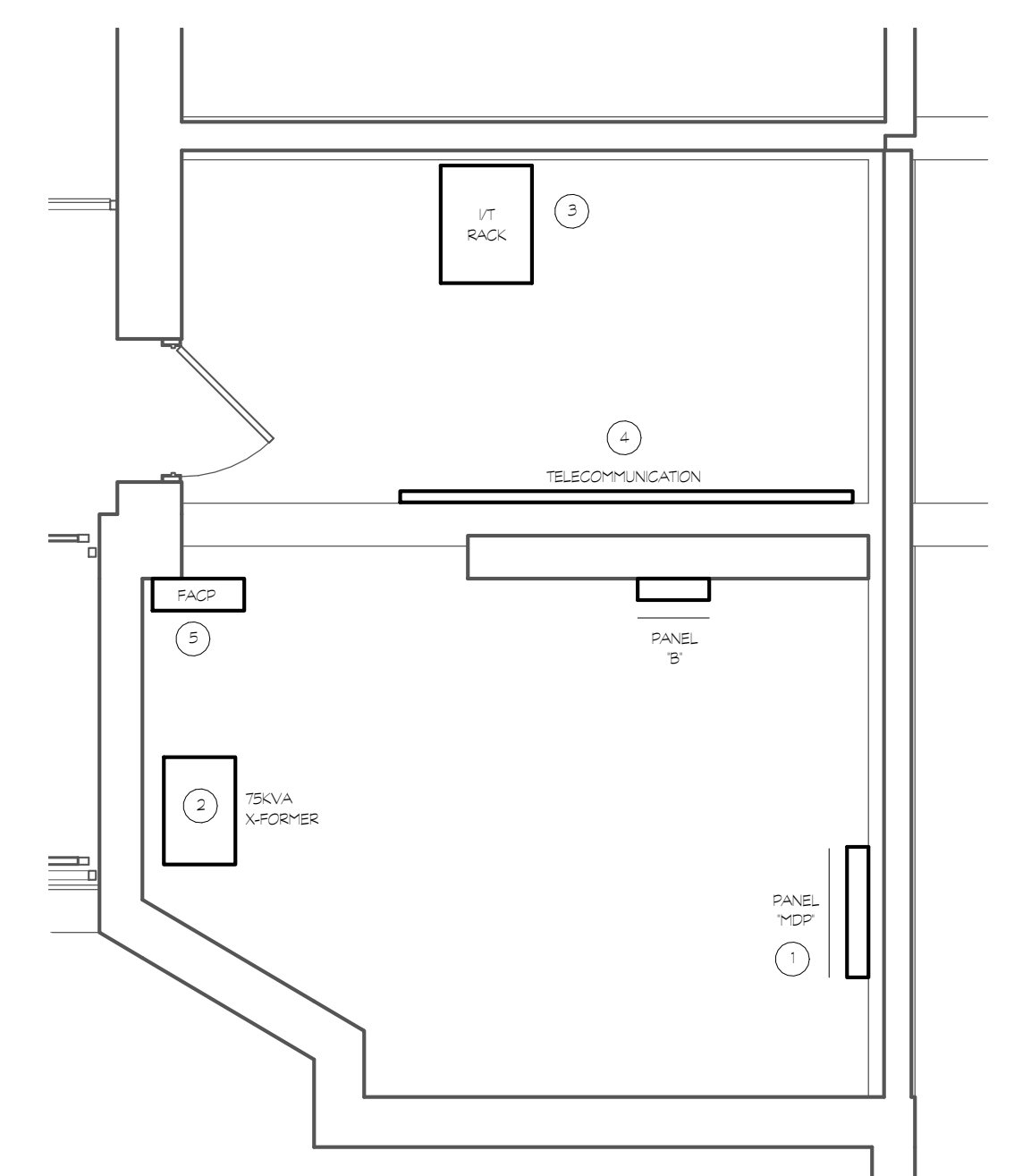
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- NEW WORK KEY NOTES LEGEND

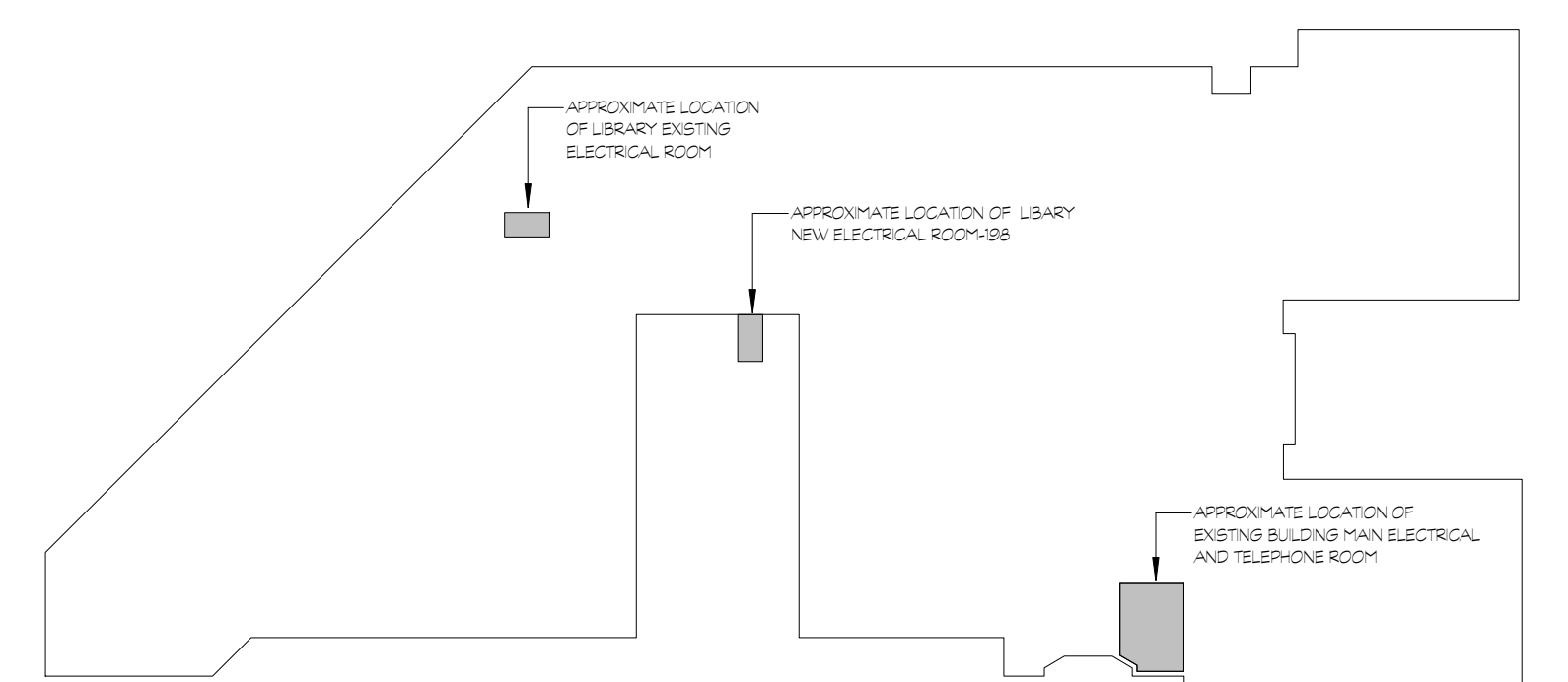
- EXISTING TO REMAIN.
- RELOCATED EXISTING.
- RELOCATED EXISTING POWER RECEPTACLE AND COVER PLATE REFER TO TBR ABREVIATION IN DETAIL DRAWING FOR ADDITIONAL INFORMATION.
- PROVIDE TAMPER RESISTANT POWER RECEPTACLE.
- PROVIDE POWER RECEPTACLE WITH USB PORT OUTLET.
- NEW FIRE ALARM PREHENSIL TO MATCH EXISTING. COORDINATE ALL FUNCTION. REPROGRAMMING OF UNIT WITH EXISTING FIRE ALARM CONTROL PANEL, AND NEW POWER SUPPLY IN THE FIELD. CONTRACTOR SHALL PERFORM ALL NECESSARY TESTS AND CORRECT SYSTEM OPERATION IF NECESSARY FOR A COMPLETE CODE COMPLIANT INSTALLATION. TYPICAL.



1 ELECTRICAL POWER PART PLAN - NEW WORK
B-1 SCALE: 1/8"=1'-0"



2 ELECTRICAL AND TELEPHONE PART PLAN - NEW WORK
B-1 SCALE: 1/4" = 1'-0"



3 KEY PLAN - NEW WORK
E-1 SCALE 1/4" = 1'-0"

Revision:	Description:	Date:	Revised By:

Date: JULY 17, 2018

Scale: As indicated

Drawn By: JRP

Project Number: 17.025

Drawing Number: E-1

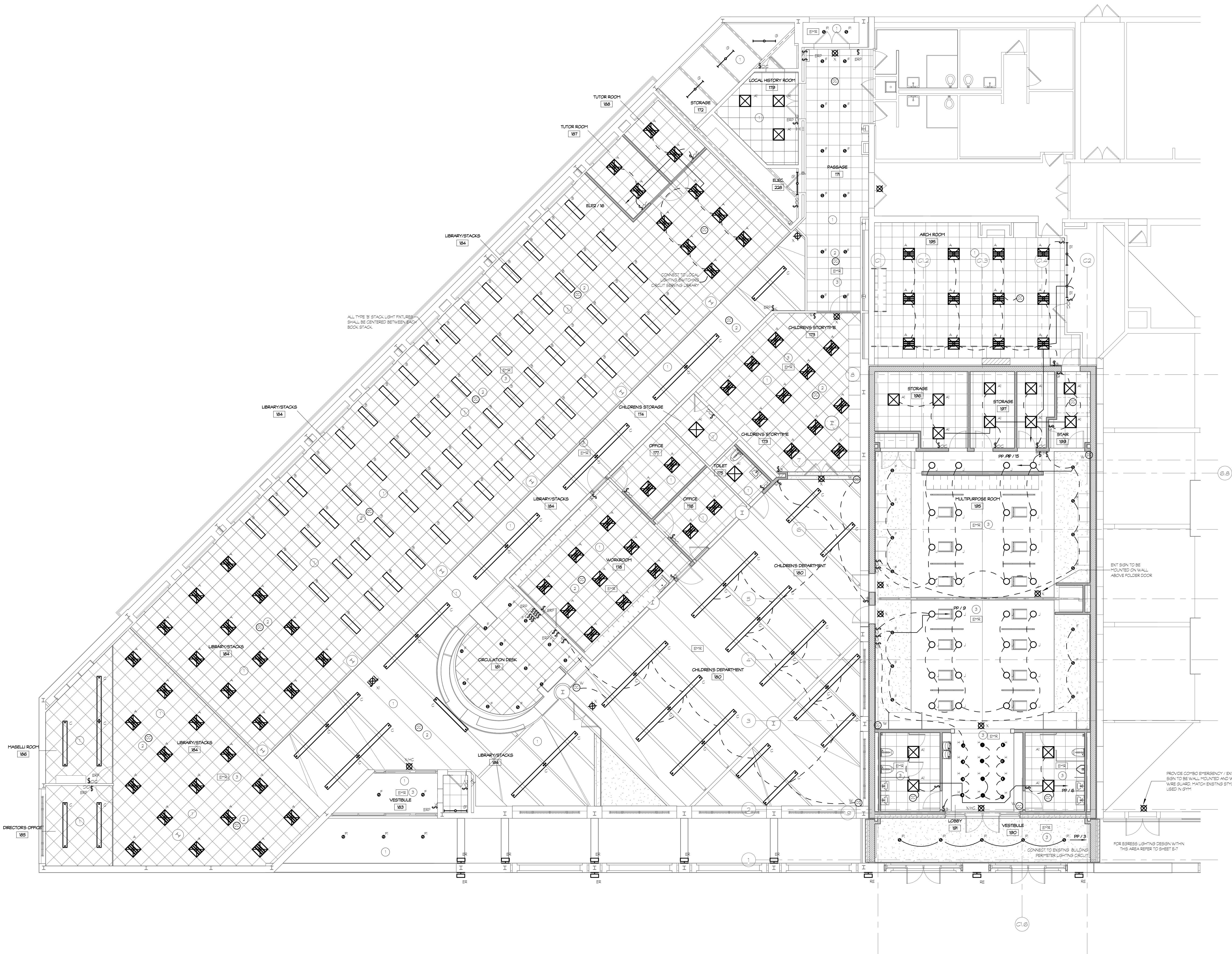
ELECTRICAL POWER NEW WORK KEY NOTES

#

1. UNLESS OTHERWISE NOTICED, ALL REPLACED LIGHTING FIXTURES SHALL BE CONTROLLED FROM EXISTING LOCAL SWITCHING CIRCUIT. TYPICAL FOR ALL FIXTURES LABELED "RE" IN DEPICTION DRAWING.
2. CELIUS MOUNT OCCUPANCY SENSOR PROVIDE NEW WIRING CONNECTION TO EXISTING LOCAL SWITCHING CIRCUIT. PROVIDE POWER PACK WITH TWO POLES IF REQUIRED. WIRE AND MOUNT AS PER MANUFACTURER REQUIREMENTS. COORDINATE LOCATION IN THE FIELD AND PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE MANUFACTURER APPROVED INSTALLATION. REFER TO WIRING DIAGRAM SET FOR ADDITIONAL INFORMATION. TYPICAL.
3. EMERGENCY SHUNT TRIP RELAY (STO22A) TO BE USED WITH DUAL CIRCUIT AND TO BE MOUNTED ABOVE CELIUS. INTERCONNECT WITH LIGHTING CIRCUIT SERVING LOCAL ROOM AND PROVIDE ALTERNATE CIRCUIT FROM ALTERNATE ELECTRICAL PANEL. REFER TO LEGAL RELAY WIRING DIAGRAM AND PANELBOARD FOR ADDITIONAL INFORMATION. COORDINATE LOCATION IN THE FIELD. TYPICAL.

NEW WORK KEY NOTES LEGEND

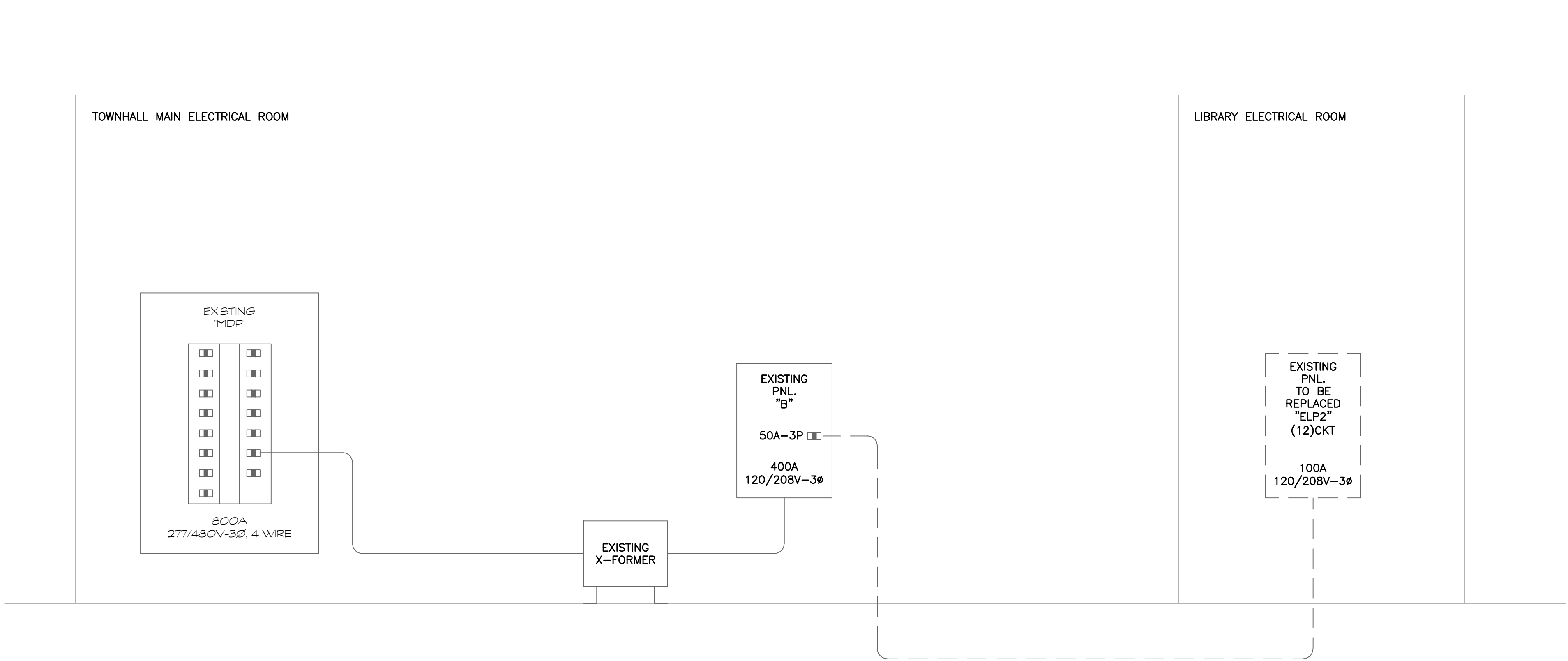
- RE EXISTING TO REMAIN
- RE RELOCATED EXISTING
- REPLACED EXISTING LIGHTING SWITCH AND COVER PLATE. REFER TO THE ASSOCIATION IN DEPICTION DRAWING FOR ADDITIONAL INFORMATION.



1 ELECTRICAL LIGHTING PART PLAN - NEW WORK
SCALE: 1/8" = 1'-0"



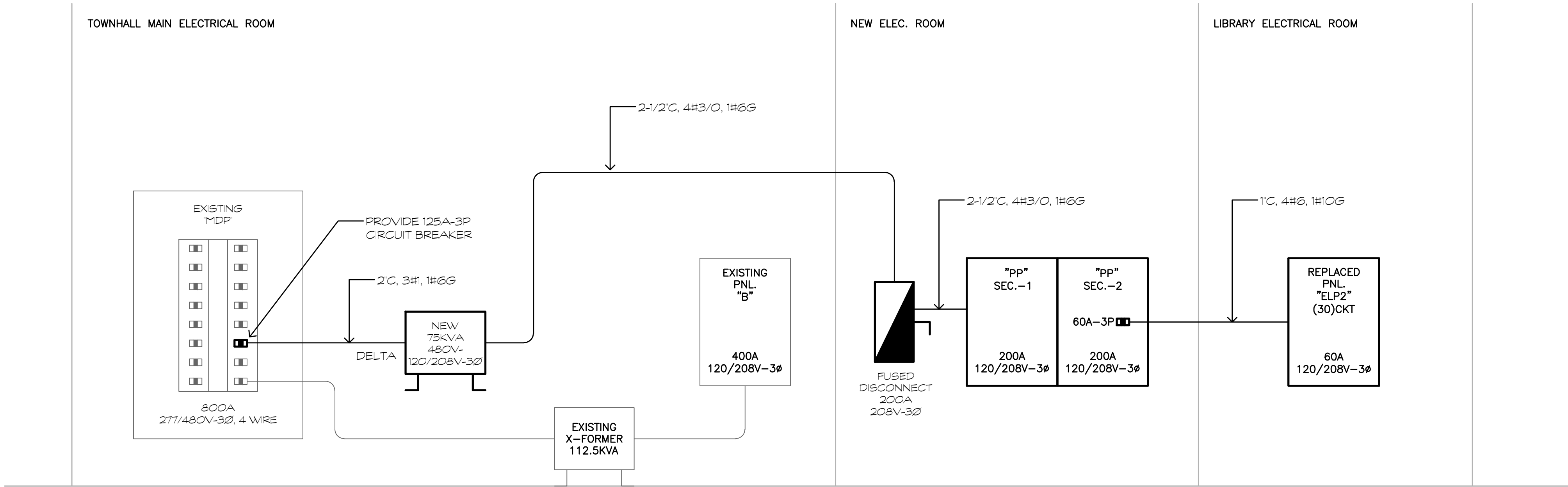
Revision:	Description:	Date:	Revised By:



ONE-LINE RISER DIAGRAM - DEMOLITION
SCALE: NONE

LEGEND

- = EXISTING TO REMAIN
- - - = EXISTING TO BE REMOVED



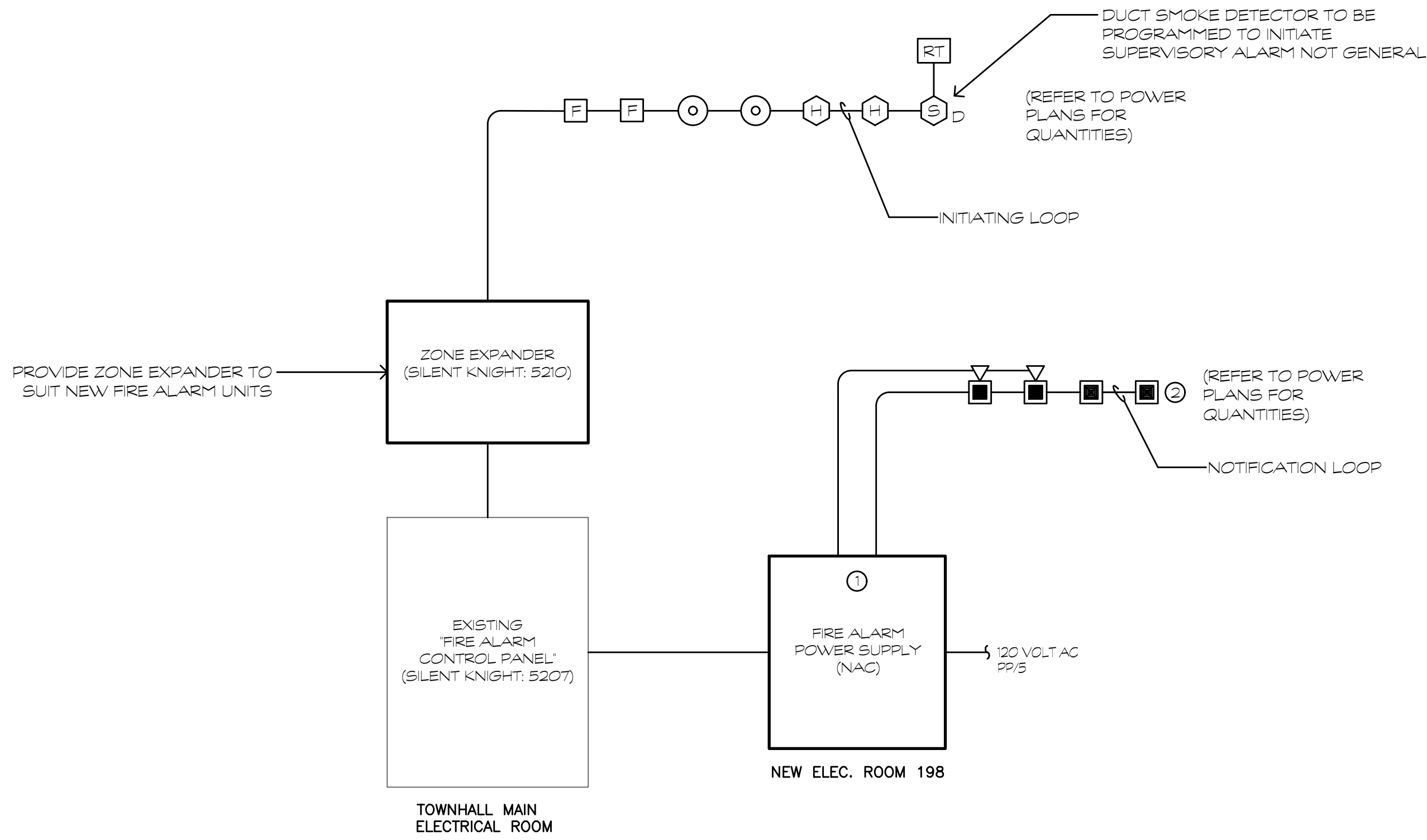
ONE-LINE RISER DIAGRAM - NEW WORK
SCALE: NONE

LEGEND










- = NEW WORK
- = NEW FEEDER AND CONDUIT
- = EXISTING TO REMAIN

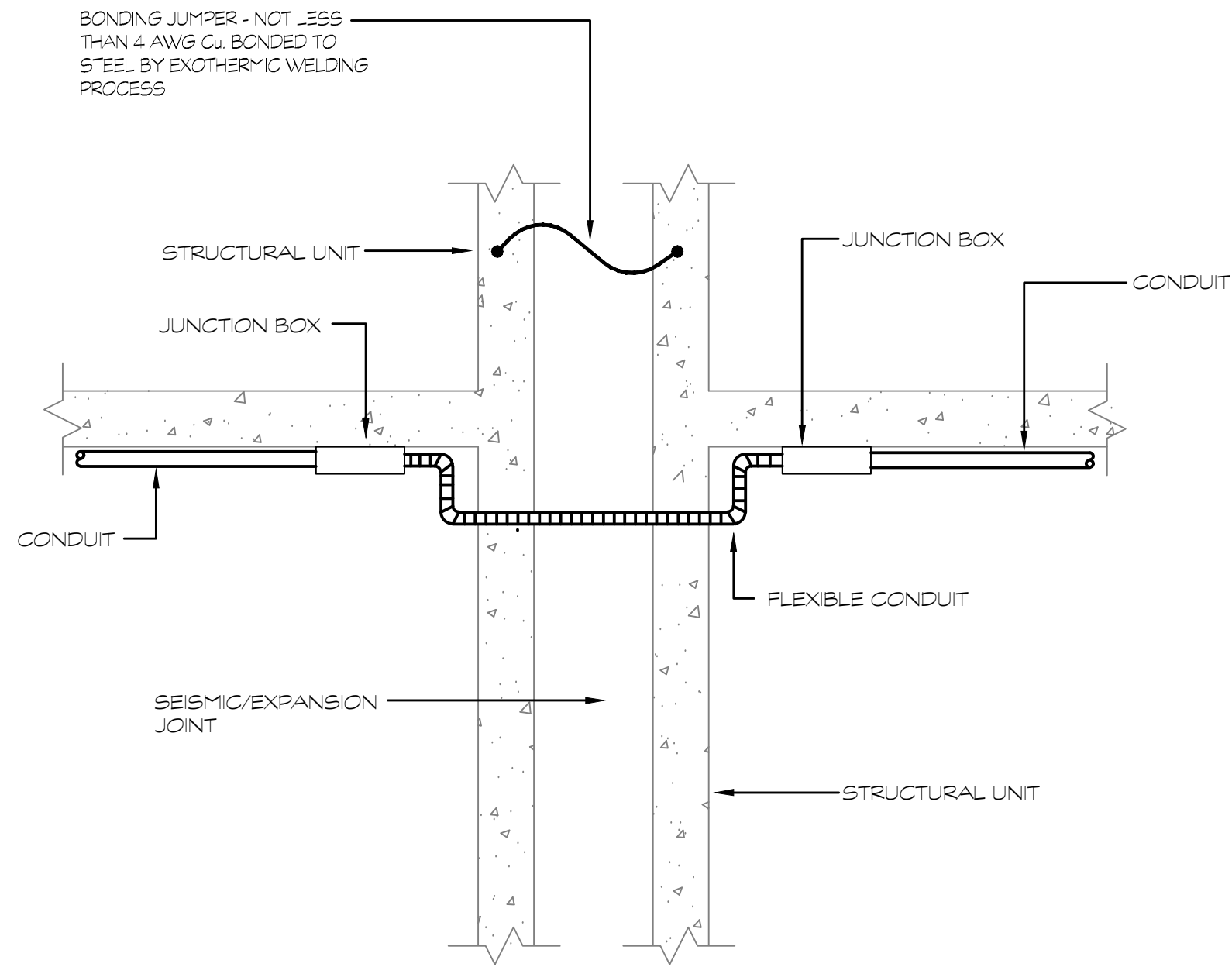
NOTES

- ALL VALUES BASED ON COPPER CONDUCTORS.
- FEEDER - UPGRADE WIRE TO MAINTAIN MAXIMUM OF 2% VOLTAGE DROP.
- BRANCH CIRCUITS - UPGRADE WIRE TO MAINTAIN MAXIMUM OF 3% VOLTAGE DROP.
- NUMBER OF WIRES SHALL BE DETERMINED WITH EQUIPMENT ELECTRICAL NAMEPLATE CHARACTERISTICS.
- WHERE NEUTRALS ARE REQUIRED, IT SHALL MATCH FEEDER CONDUCTOR SIZE.

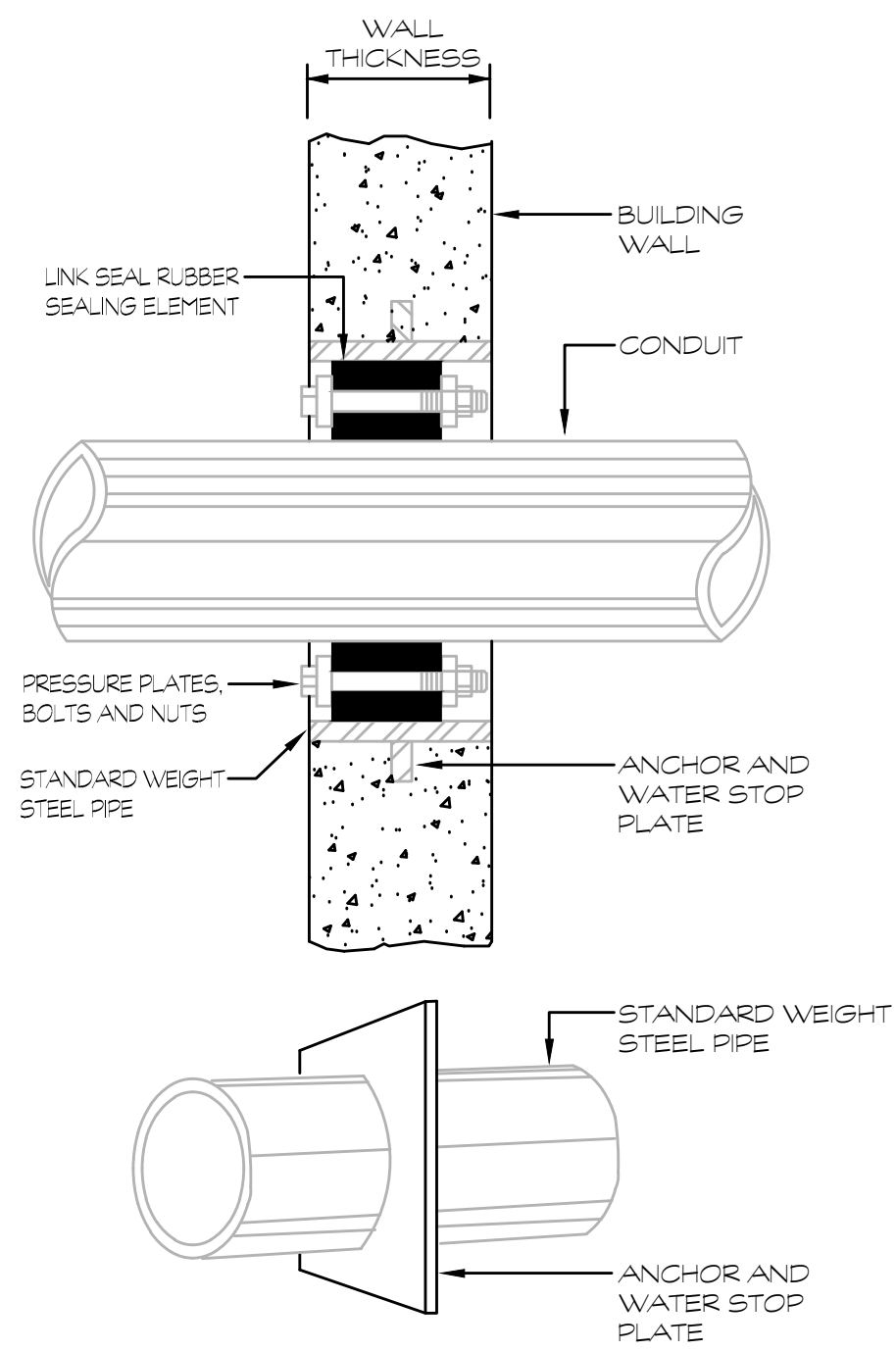


FIRE ALARM RISER DIAGRAM
SCALE: NONE

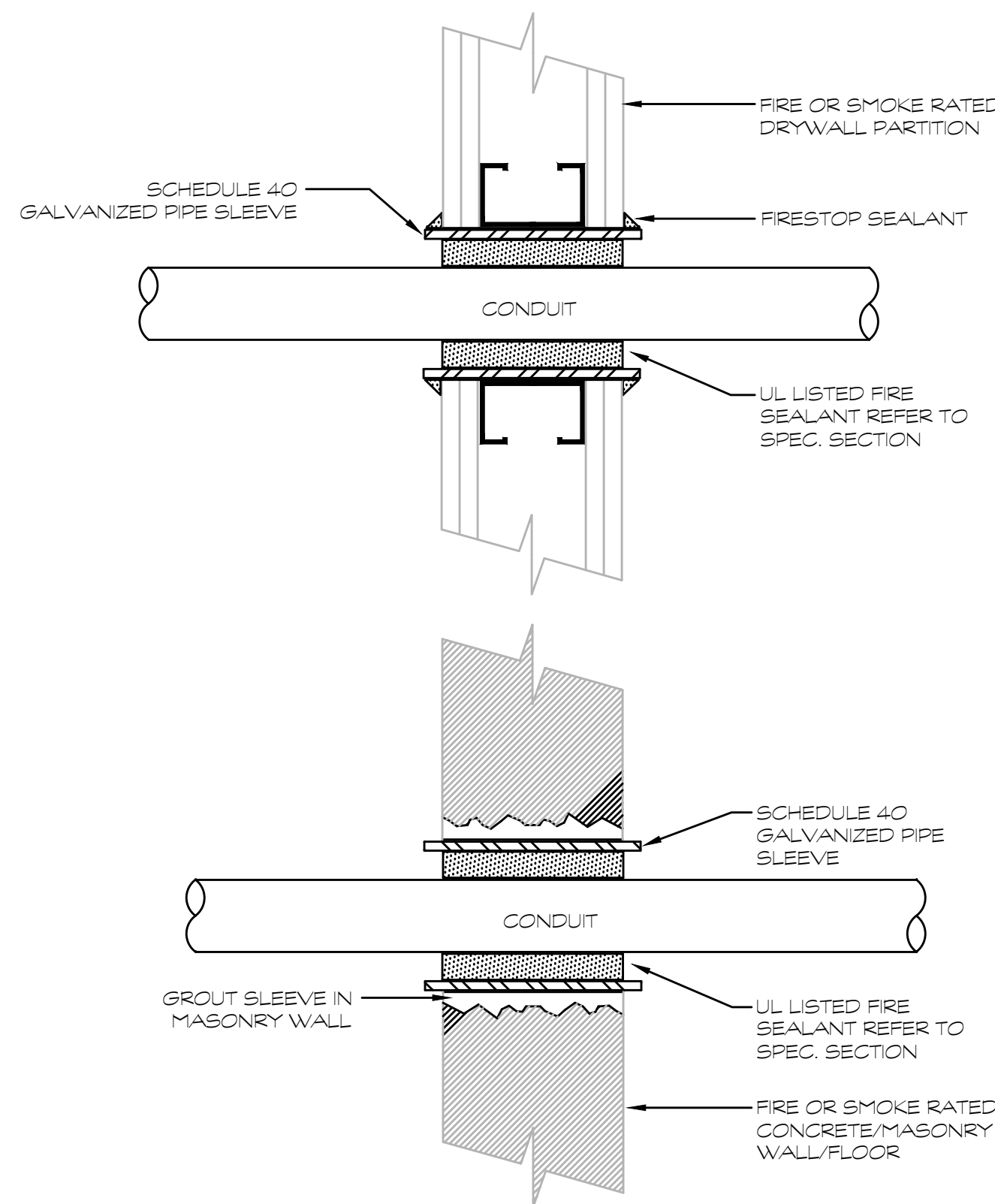
FIRE ALARM GENERAL NOTES		FIRE ALARM SPECIFICATIONS	
<div><div>1.</div><div>POWER SUPPLY PANEL (NAC) TO BE LOCATED IN NEW ELECTRICAL ROOM 198 AND SHALL BE FURNISHED WITH ALL COMPONENTS REQUIRED TO SERVE DEVICES SHOWN ON DRAWINGS.</div></div> <div><div>2.</div><div>ALL STROBES SHALL BE SYNCHRONIZED.</div></div> <div><div>3.</div><div>PROVIDE 120VAC, 3/4"Ø, 2#12, 1#12G, CONNECT TO DEDICATED 1P, 20A BRANCH CIRCUIT BREAKER IN PANEL "PP". PROVIDE CIRCUIT BREAKER TAB LOCK.</div></div> <div><div>4.</div><div>3/4"Ø, #8 CONNECT TO EXISTING MAIN GROUND SOURCE. CONTRACTOR SHALL VERIFY THE GROUND CONNECTION IN THE FIELD.</div></div> <div><div>5.</div><div>ALL WIRING TO BE PER SPECIFICATIONS AND MANUFACTURERS REQUIREMENTS.</div></div> <div><div>6.</div><div>FURNISH DEVICES WITH ALL NECESSARY MATERIALS AND ACCESSORIES FOR COMPLETE INSTALLATION TO BE FULLY OPERATIONAL.</div></div> <div><div>7.</div><div>MOUNT NOTIFICATION DEVICES 60" AFF OR 6' BELOW CEILING, WHICHEVER IS LOWER. MOUNT PULL STATIONS AT 48" AFF. MAX.</div></div> <div><div>8.</div><div>REFER TO ELECTRICAL PLANS FOR LOCATION AND DEVICE QUANTITIES. ALL FIRE ALARM WORK SHALL BE INCLUDED IN THE BASE BID.</div></div> <div><div>9.</div><div>COORDINATE EXACT LOCATION OF FIRE ALARM CONTROL PANEL WITH FIRE MARSHAL.</div></div> <div><div>10.</div><div>FIRE ALARM DEVICES MOUNTING HEIGHTS SHALL COMPLY WITH ADA REQUIREMENTS.</div></div> <div><div>11.</div><div>NO SMOKE DETECTOR SHALL BE LOCATED WITHIN 3 FEET OF A SUPPLY AIR OUTLET.</div></div>		<div><div>A.</div><div>MANUFACTURERS (MATCH EXISTING)</div></div> <div><div>B.</div><div>INSTALLED SYSTEM SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF NFPA 72, NFPA 70, ADA, AND CONNECTICUT FIRE SAFETY CODE.</div></div> <div><div>C.</div><div>FIRE ALARM CABLE SHALL BE INSTALLED IN DEDICATED CONDUIT WHERE EXPOSED. CONCEALED CABLE MAY BE RUN WITHOUT CONDUIT.</div></div> <div><div>D.</div><div>COMPLETED SYSTEM SHALL BE FULLY TESTED IN ACCORDANCE WITH NFPA-72H BY CONTRACTOR IN THE PRESENCE OF THE OWNERS REPRESENTATIVE AND THE LOCAL FIRE MARSHAL.</div></div> <div><div>E.</div><div>PROVIDE PRODUCT DATA SUBMITTALS INCLUDE BUT NOT LIMITED TO ALL OF THE FOLLOWINGS:<div><div>1.</div><div>BATTERY CALCULATIONS</div></div><div><div>2.</div><div>CONDUIT TYPE AND SIZES.</div></div><div><div>3.</div><div>VOLTAGE DROP CALCULATIONS.</div></div><div><div>4.</div><div>PERIPHERAL DEVICES MANUFACTURER AND MODEL NUMBER.</div></div></div></div> <div><div>F.</div><div>PROVIDE ALL ADDITIONS, MODIFICATIONS AND PROGRAMMING REQUIRED IN EXISTING FIRE ALARM CONTROL PANEL (FACP) TO ALLOW FOR NEW DEVICES.</div></div>	
FIRE ALARM LEGEND		FIRE ALARM SEQUENCE	
<div><div></div><div>ADA WALL MOUNT HORN/STROBE</div></div> <div><div></div><div>ADA WALL MOUNT STROBE LIGHT ONLY</div></div> <div><div></div><div>DUAL ACTION PULL STATION W/ KEY RESET & ALARMED COVER</div></div> <div><div></div><div>PHOTOELECTRIC SMOKE DETECTOR</div></div> <div><div></div><div>HEAT DETECTOR</div></div> <div><div></div><div>DUCT SMOKE DETECTOR</div></div> <div><div></div><div>REMOTE TEST SWITCH</div></div> <div><div></div><div>FIRE ALARM NAC POWER PANEL</div></div> <div><div></div><div>FIRE ALARM CONTROL PANEL</div></div>	<div><div>A.</div><div>THE SYSTEM ALARM OPERATION SUBSEQUENT TO THE ALARM ACTIVATION OF ANY MANUAL PULL STATION, FLOW SWITCH, HOOD SUPPRESSION SYSTEM OR AUTOMATIC DETECTION DEVICE IS TO BE AS FOLLOWS:<div><div>1.</div><div>AUDIBLE ALARM INDICATING APPLIANCES SHALL SOUND UNTIL SILENCED BY THE ALARM SILENCE SWITCH OR INDIVIDUAL CIRCUIT SWITCH AT THE CONTROL PANEL.</div></div><div><div>2.</div><div>VISUAL ALARM NOTIFICATION DEVICES (STROBES) SHALL DISPLAY A CONTINUOUS PATTERN UNTIL EXTINGUISHED BY THE ALARM RESET SWITCH.</div></div><div><div>3.</div><div>CONTROL PANEL SHALL ACTIVATE THE EXISTING MEANS OF FIRE SERVICE NOTIFICATION.</div></div><div><div>4.</div><div>MANUAL AND AUTOMATIC OPERATION OF ALARM AND SUPERVISORY INITIATING DEVICES SHALL BE ANNUNCIATED ON THE CONTROL PANEL INDICATING THE ZONE.</div></div><div><div>5.</div><div>A PULSING ALARM TONE SHALL OCCUR WITHIN THE CONTROL PANEL.</div></div></div></div>		



EXPANSION/SEISMIC JOINT FITTING DETAIL
NOT TO SCALE



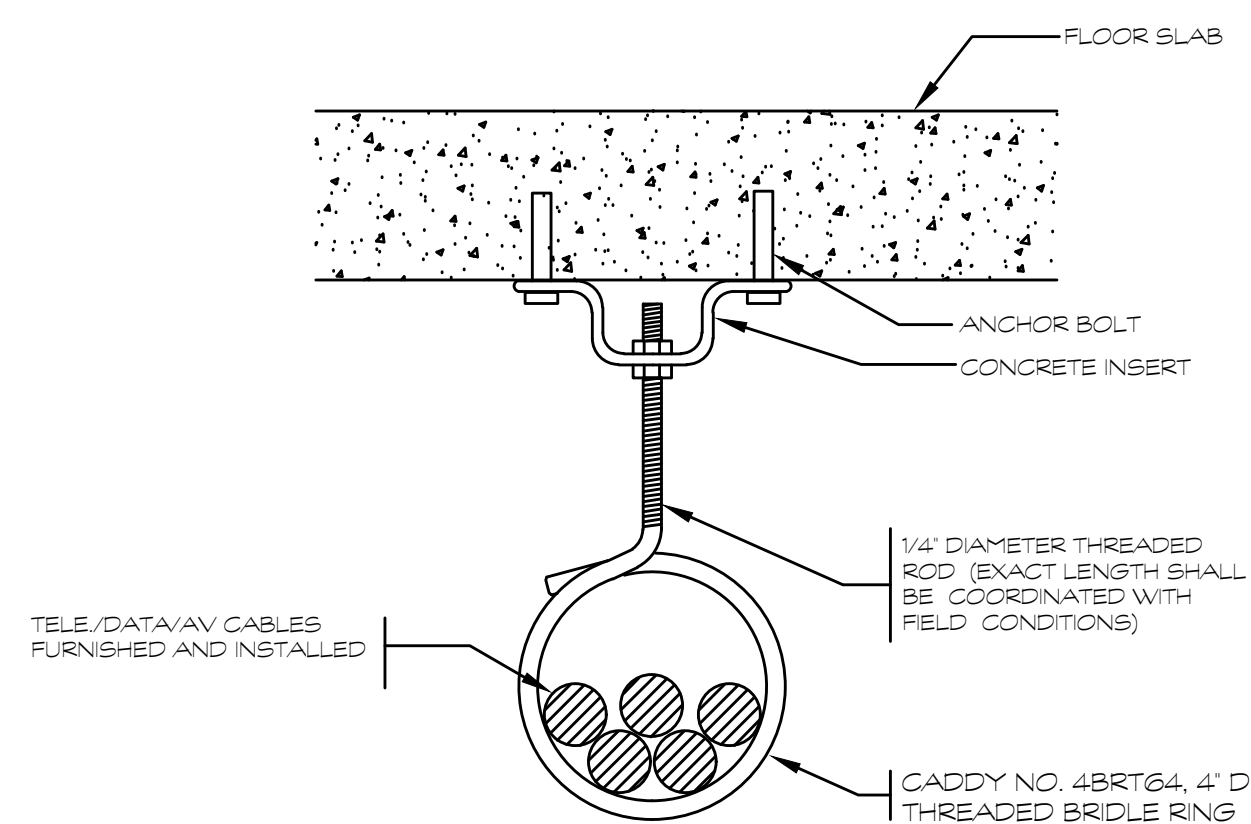
WATER-TIGHT WALL SLEEVE
NOT TO SCALE



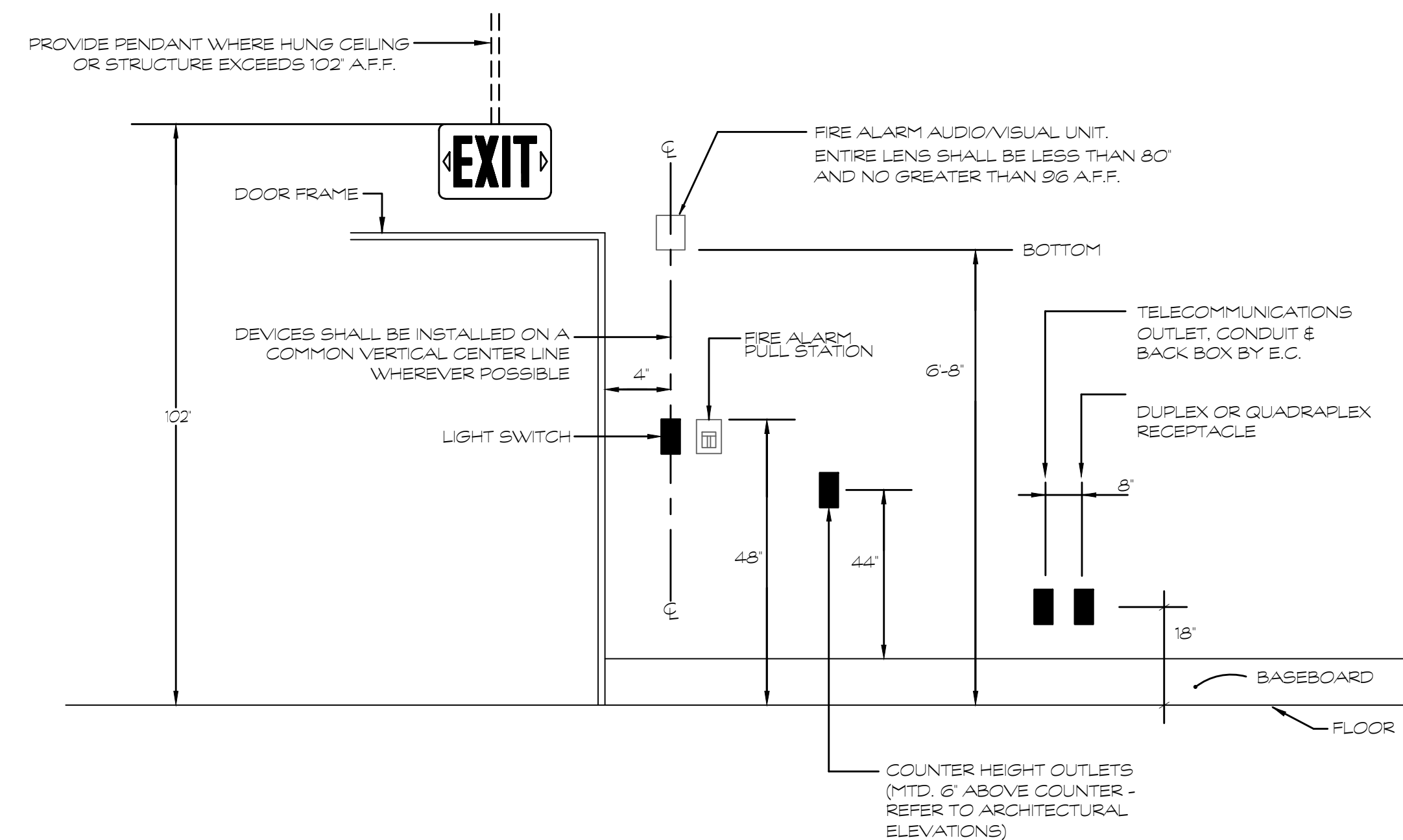
WALL/FLOOR PENETRATION W/FIRE-SMOKE SEAL DETAIL
NOT TO SCALE

GENERAL NOTES:

1. PROVIDE UL LISTED FIRE/SMOKE PENETRATION ASSEMBLY IN ACCORDANCE W/ UL1479, ASTM E814 REQUIREMENTS FOR WALL TYPE, RATING, PIPE SIZE INSTALLED.
2. FIRE STOPPING SHALL HAVE A RATING EQUAL TO OR GREATER THAN THE WALL/FLOOR BEING PENETRATED - SEE SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL/FLOOR RATINGS AND LOCATIONS.



CABLE RING DETAIL
NOT TO SCALE

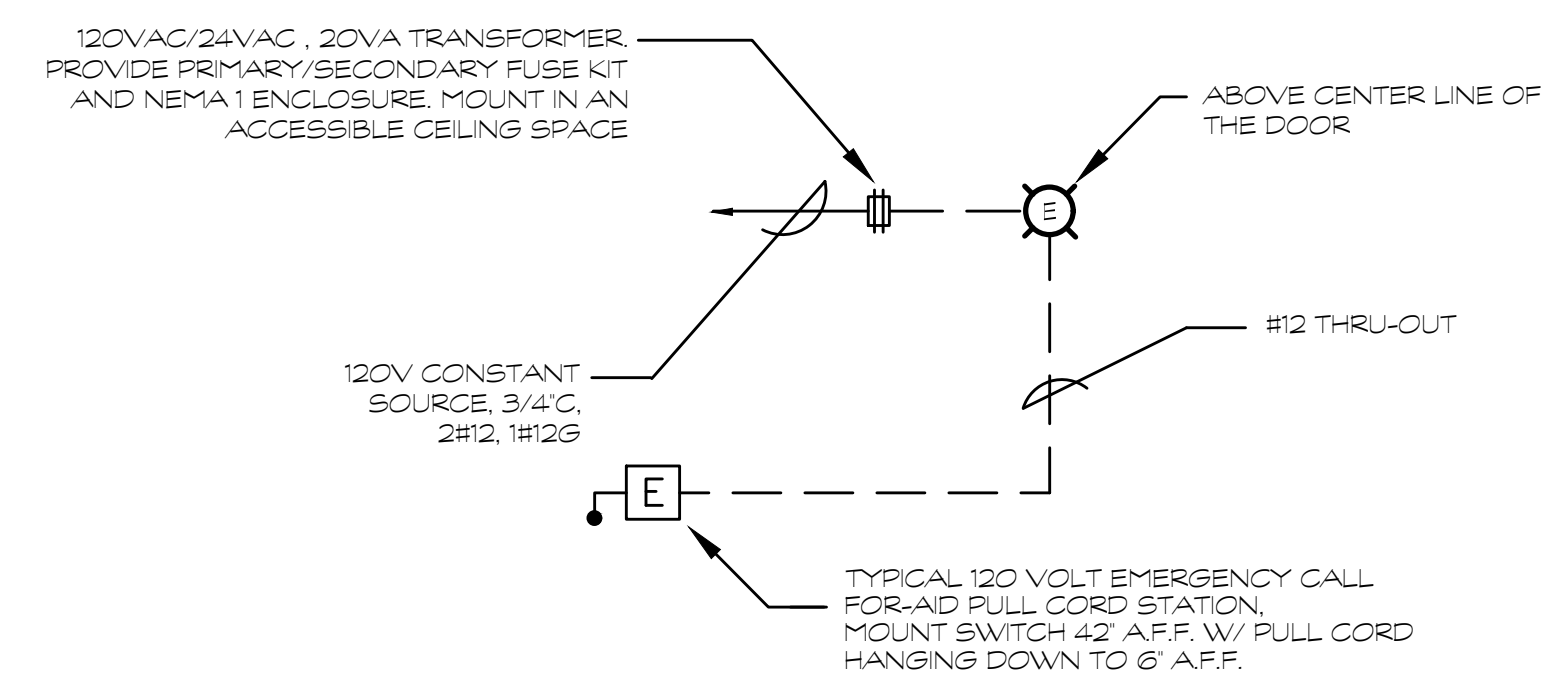


OUTLET MOUNTING DETAIL
NOT TO SCALE

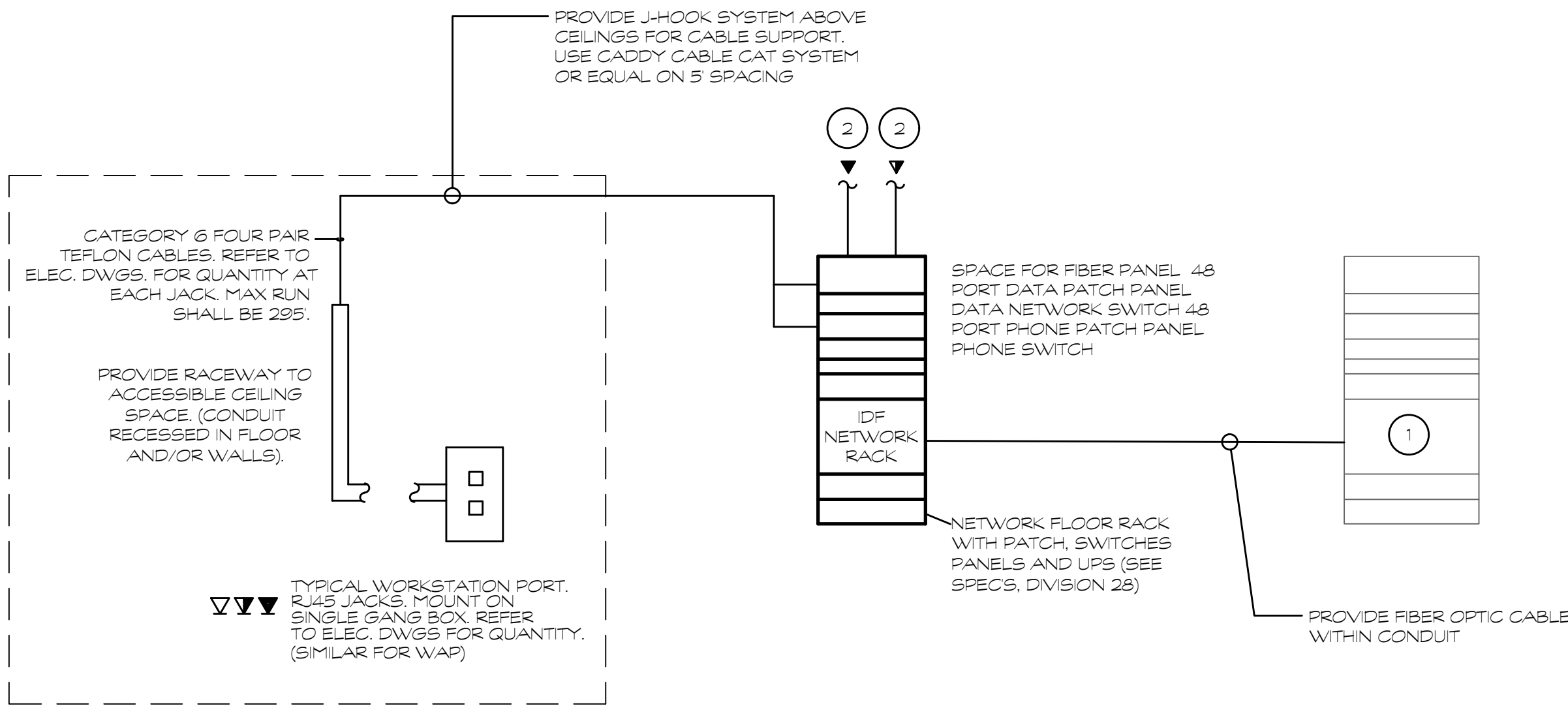
(TYP. ALL OUTLETS UNLESS OTHERWISE NOTED.)

NOTES :

1. ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FIN. FLOOR TO CENTERLINE OF DEVICE (EXCEPT FOR EXIT SIGNS).
2. DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE.
3. ALL DEVICES SHALL BE INSTALLED AT THE MOUNTING HEIGHTS INDICATED ON THIS DETAIL, UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF RECEPTACLES LOCATED ABOVE COUNTERS.
4. THE LOCATION OF WALL OUTLETS IN THE OFFICES, TRAINING AND EXERCISE ROOM ARE DIRECTLY RELATED TO THE FURNITURE LOCATION. SPECIAL ATTENTION SHALL BE GIVEN TO LOCATING OUTLETS PER THIS DETAIL. DO NOT INSTALL OUTLETS BACK TO BACK.

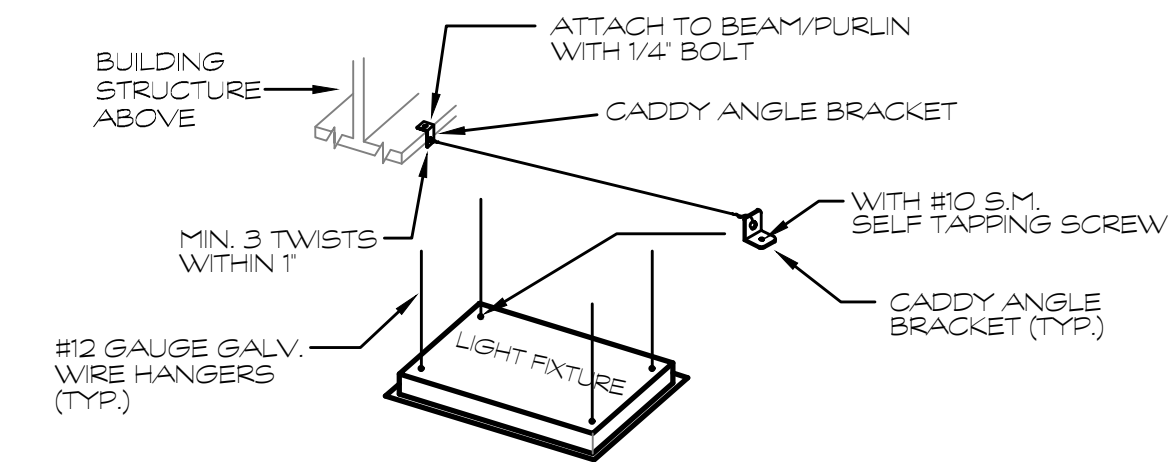


HANDICAPPED CALL-FOR-AID SYSTEM
SCALE: NONE



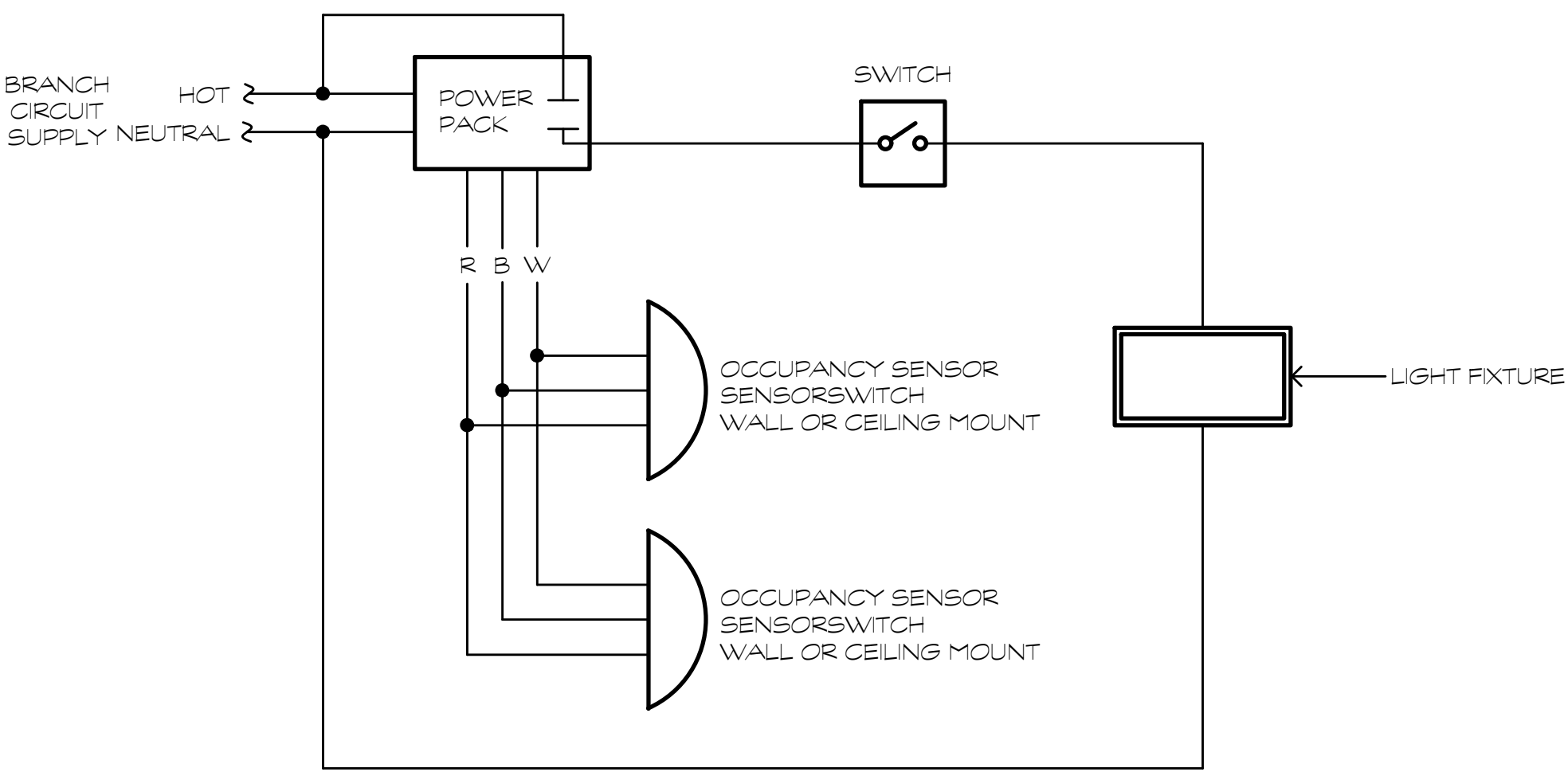
PHONE & DATA NETWORK DIAGRAM
NOT TO SCALE

- NOTE:
- EXISTING FLOOR STANDING SERVER RACK WITH PATCH PANELS, DATA AND PHONE SWITCHES. CONTRACTOR TO REWORK CORRESPONDING UNIT AS REQUIRED TO EXTEND AND INTERCONNECT WITH NEW IDF SYSTEM.
 - PROVIDE CAT6 CABLE FROM EACH JACK LOCATION TO NEAREST PUNCH BLOCKS AND/OR PATCH PANEL.
- GEN:
- CONTRACTOR SCOPE FOR PHONE AND DATA SYSTEMS SHALL BE LIMITED TO THE FOLLOWING: PROVIDE PATCH (2) PATCH PANEL, (2) SWITCH PANEL, PROVISION / INSTALLATION AND TESTING OF CAT6 CABLES. INSTALLATION AND IDENTIFICATION OF JACKS AT LOCATIONS SHOWN ON DRAWINGS. TERMINATION OF CABLES AT RACK MOUNTED PATCH PANELS. INSTALLATION AS LISTED ABOVE INDICATES RESPONSIBILITY TO FURNISH, INSTALL, TEST, AND WARRANTY THE ITEM.



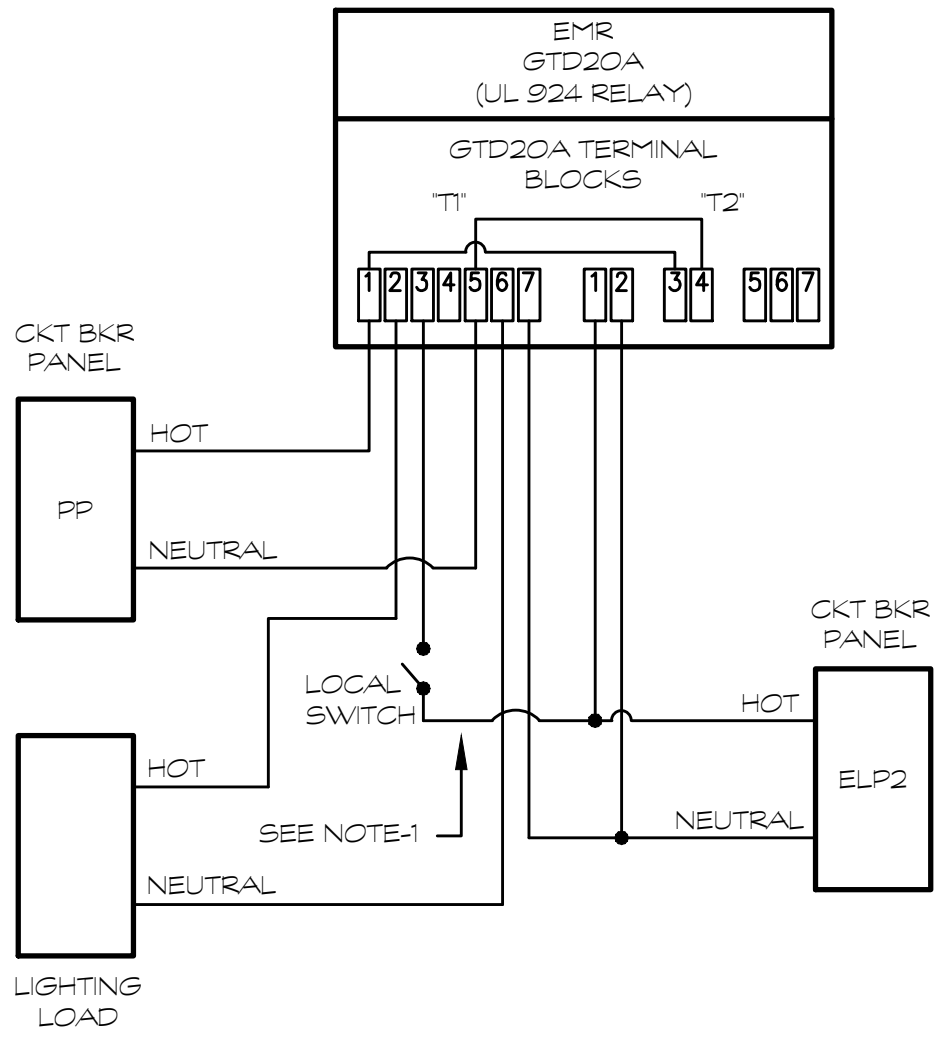
TYPICAL LAY-IN GRID LIGHTING FIXTURE SUPPORT/MOUNTING DETAIL
NOT TO SCALE

- ALL LIGHTING FIXTURES SHALL BE SECURED TO THE STRUCTURE BY THE ELECTRICAL CONTRACTOR.
- FLUSH OR RECESSED LIGHT FIXTURES LESS THAN 50 POUNDS SHALL HAVE 2-12 GA. BLACK SAFETY WIRES FROM DIAGONAL CORNERS TO BUILDING STRUCTURE BY TRADE CONTRACTOR.
- FLUSH OR RECESSED LIGHT FIXTURES MORE THAN 50 POUNDS SHALL HAVE 4-12 GA. BLACK SAFETY WIRES FROM DIAGONAL CORNERS TO BUILDING STRUCTURE BY TRADE CONTRACTOR.
- SECURE SURFACE MOUNTED LIGHT FIXTURES W/ MINIMUM OF 2 - POSITIVE CLAMPING DEVICES OF 1/4 GA. MINIMUM STEEL AND W/ 12 GA. WIRE TO BUILDING STRUCTURE.



CEILING MULTIPLE OCCUPANCY SENSOR DETAIL
NOT TO SCALE

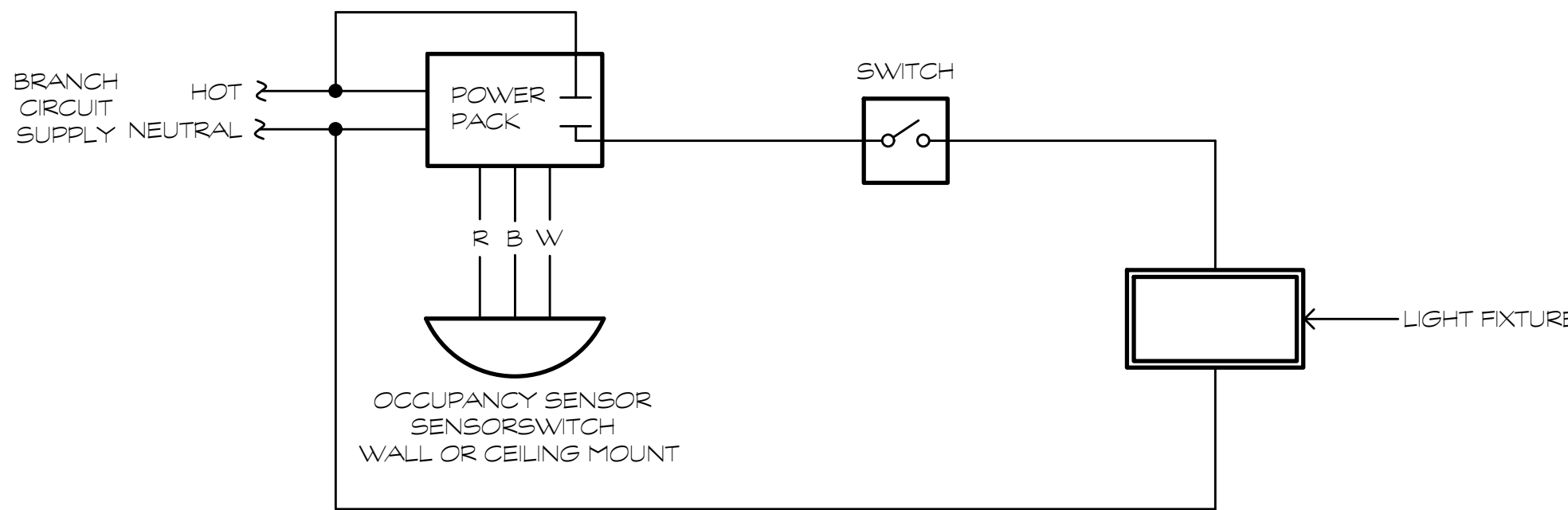
- NOTE:
- EXACT QUANTITY OF DEVICES MAY DIFFER FROM THIS DETAIL. CONTRACTOR SHALL PROVIDE ACTUAL QUANTITY REQUIRED. REFER TO LIGHTING FLOOR PLAN.



TYPICAL UL924 RELAY WIRING DIAGRAM
NOT TO SCALE

UL924 RELAY NOTES

- NOTES:
- FOR EMERGENCY FIXTURES THAT WILL ONLY COME ON UPON LOSS OF NORMAL POWER, DO NOT WIRE HOT LEG OF NORMAL CKT BKR TO TERMINAL BLOCK T1-T7.



CEILING OCCUPANCY SENSOR DETAIL
NOT TO SCALE

- NOTE:
- EXACT QUANTITY OF DEVICES MAY DIFFER FROM THIS DETAIL. CONTRACTOR SHALL PROVIDE ACTUAL QUANTITY REQUIRED. REFER TO LIGHTING FLOOR PLAN.

Branch Panel: PP													
Location: ELECTRICAL ROOM 198						Volts: 120/208 Wye				A.I.C. Rating: 42			
Supply From:						Phases: 3				Mains Type:			
Mounting: Surface						Wires: 4				Mains Rating: 200 A			
Enclosure: Type 1										MCB Rating:			
Notes:													
CKT	Circuit Description	Wire & Conduit	Trip	Poles	A	B	C	Poles	Trip	Wire & Conduit	Circuit Description	CKT	
	Door Panic Hardware	3/4"C, 2#12, 1#12G	20 A	1	100	360			1	20 A	3/4"C, 2#12, 1#12G	Receptacles	2
3	Lighting	3/4"C, 2#12, 1#12G	20 A	1		175	180		1	20 A	3/4"C, 2#12, 1#12G	Receptacles	4
5	Fire Alarm NAC Panel	3/4"C, 3#12, 1#12G	20 A	1			200	444	1	20 A	3/4"C, 2#12, 1#12G	Lighting	6
7	Receptacles	3/4"C, 2#12, 1#12G	20 A	1	540	720			1	20 A	3/4"C, 2#12, 1#12G	Receptacles	8
9	Lighting	3/4"C, 2#12, 1#12G	20 A	1		562	720		1	20 A	3/4"C, 2#12, 1#12G	Receptacles	10
11	Lighting	3/4"C, 2#12, 1#12G	20 A	1			632	900	1	20 A	3/4"C, 2#12, 1#12G	Moor Arker 3D Printer	12
13	3D Printer	3/4"C, 2#12, 1#12G	20 A	1	800	1500			1	20 A	3/4"C, 2#12, 1#12G	Water Cooler	14
15	Lighting	3/4"C, 2#12, 1#12G	20 A	1		1132	1200		1	20 A	3/4"C, 2#12, 1#12G	Carvey Wood Printer	16
17	Muse Laser Printer	3/4"C, 2#12, 1#12G	20 A	1			1300	936	2	20 A	3/4"C, 3#12, 1#12G	Automatic Folder Door	18
19	Receptacles	3/4"C, 2#12, 1#12G	20 A	1	540	936			--	--	--	--	20
21	ELP2	See One Line Riser...	20 A	3		4600	360		1	20 A	3/4"C, 2#12, 1#12G	Receptacles	22
23	--	--	--	--			4350	360	1	20 A	3/4"C, 2#12, 1#12G	ZSpace Computer	24
25	--	--	--	--	4140	540			1	20 A	3/4"C, 2#12, 1#12G	Receptacles	26
27	Receptacles	3/4"C, 2#12, 1#12G	20 A	1		540	600		1	20 A	3/4"C, 3#12, 1#12G	EF-3	28
29	Receptacles	3/4"C, 2#12, 1#12G	20 A	1			540	600	1	20 A	3/4"C, 2#12, 1#12G	Sound Booth	30
31	EF-2	3/4"C, 3#12, 1#12G	20 A	1	600	720			1	20 A	3/4"C, 2#12, 1#12G	Receptacles	32
33	Receptacles	3/4"C, 2#12, 1#12G	20 A	1		720	720		1	20 A	3/4"C, 2#12, 1#12G	Receptacles	34
35	Receptacles	3/4"C, 2#12, 1#12G	20 A	1			720	720	1	20 A	3/4"C, 2#12, 1#12G	Receptacles	36
37	Receptacles	3/4"C, 2#12, 1#12G	20 A	1	540	800			1	20 A	3/4"C, 2#12, 1#12G	Form 2 3D Printer	38
39	Wall Mounted Projector	3/4"C, 2#12, 1#12G	20 A	1		800	4132		3	50 A	1"C, 3#6, 1#10G	AHU-2	40
41	Wall Mounted Projector	3/4"C, 2#12, 1#12G	20 A	1			800	4132	--	--	--	--	42
43	AHU-1	1"C, 3#6, 1#10G	60 A	3	5688	4132			--	--	--	--	44
45	--	--	--	--		5688	0		1	20 A		Emergency Relay	46
47	--	--	--	--			5688	0	1	20 A		Emergency Relay	48
49	Emergency Relay		20 A	1	0	0			1	20 A		Emergency Relay	50
51	Emergency Relay		20 A	1		0	0		1	20 A		Emergency Relay	52
53	Emergency Relay		20 A	1			0	0	1	20 A		Emergency Relay	54
55	Emergency Relay		20 A	1	0	0			1	20 A		Emergency Relay	56
57	EH-2		20 A	2		2000	2000		2	20 A		EH-3	58
59	--	--	--	--			2000	2000	--	--	--	--	60
61	Spare		20 A	1	0	0			1	20 A		Spare	62
63	Spare		20 A	1		0	0		1	20 A		Spare	64
65	Space	--	--	--	--		0	0	--	--	--	Space	66
67	Space	--	--	--	0	0			--	--	--	Space	68
69	Space	--	--	--		0	0		--	--	--	Space	70
71	Space	--	--	--			0	0	--	--	--	Space	72
73	Space	--	--	--	0	0			--	--	--	Space	74
75	Space	--	--	--		0	0		--	--	--	Space	76
77	Space	--	--	--			0	0	--	--	--	Space	78
79	Space	--	--	--	0	0			--	--	--	Space	80
81	Space	--	--	--		0	0		--	--	--	Space	82
83	Space	--	--	--			0	0	--	--	--	Space	84
					Total Load:	22656 VA	26129 VA	26322 VA					
					Total Amps:	189 A	222 A	224 A					
Legend:													
Load Classification		Connected Load	Demand Factor	Estimated Demand	Panel Totals								
Lighting		2450 VA	125.00%	3063 VA									
Motor		1872 VA	125.00%	2340 VA	Total Conn. Load: 75110 VA								
Other		6144 VA	107.32%	6594 VA	Total Est. Demand: 76641 VA								
Power		58300 VA	100.00%	58300 VA	Total Conn. Current: 208 A								
Receptacle		6280 VA	100.00%	6280 VA	Total Est. Demand Current: 213 A								
Notes:													

Branch Panel: ELP2													
Location: ELEC. 228					Volts: 120/208 Wye					A.I.C. Rating: 22			
Supply From: PP					Phases: 3					Mains Type:			
Mounting: Surface					Wires: 4					Mains Rating: 100 A			
Enclosure: Type 1										MCB Rating:			
Notes:													
CKT	Circuit Description	Wire & Conduit	Trip	Poles	A	B	C	Poles	Trip	Wire & Conduit	Circuit Description	CKT	
1	Receptacles	3/4"C, 2#12, 1#12	20 A	1	180	500		1	20 A	3/4"C, 2#12, 1#12G	Water Cooler	2	
3	EF-1	3/4"C, 2#12, 1#12G	20 A	1		600	720		1	20 A	3/4"C, 2#12, 1#12G	Receptacles	4
5	Receptacles	3/4"C, 2#12, 1#12G	20 A	1			720	900	1	20 A	3/4"C, 2#12, 1#12G	Receptacles	6
7	Receptacles	3/4"C, 2#12, 1#12G	20 A	1	1080	1400			1	20 A	3/4"C, 2#12, 1#12G	Power Pole	8
9	Receptacles	3/4"C, 2#12, 1#12	20 A	1		720	1080		1	20 A	3/4"C, 2#12, 1#12	Receptacles	10
11	EH-1	3/4"C, 2#10, 1#10	20 A	1			1800	720	1	20 A	3/4"C, 2#12, 1#12G	Receptacles	12
13	Receptacles	3/4"C, 2#12, 1#12G	20 A	1	720	720			1	20 A	3/4"C, 2#12, 1#12G	Receptacles	14
15	Receptacles	3/4"C, 2#12, 1#12G	20 A	1		720	510		1	20 A	3/4"C, 2#12, 1#12G	Lighting	16
17	Emergency relay		20 A	1			0	0	1	20 A	Emergency relay	18	
19	Emergency relay		20 A	1	0	0			1	20 A	Emergency relay	20	
21	Emergency relay		20 A	1		0	0		1	20 A	Emergency relay	22	
23	Emergency Relay		20 A	1			0	0	1	20 A	Spare	24	
25	Spare		20 A	1	0	0			1	20 A	Spare	26	
27	Spare		20 A	1		0	0		1	20 A	Spare	28	
29	Spare		20 A	1			0	0	1	20 A	Spare	30	
31	Spare		20 A	1	0	0			1	20 A	Spare	32	
33	Spare		20 A	1		0	0		1	20 A	Spare	34	
35	Spare		20 A	1			0	0	1	20 A	Spare	36	
37	Relocated Existing C.B.		20 A	1	0	0			1	20 A	Relocated Existing C.B.	38	
39	Relocated Existing C.B.		20 A	1		0	0		1	20 A	Relocated Existing C.B.	40	
41	Relocated Existing C.B.		20 A	1			0	0	1	20 A	Relocated Existing C.B.	42	
Total Load:					4600 VA	4350 VA	4140 VA						
Total Amps:					39 A	37 A	35 A						
Legend:													
Load Classification		Connected Load	Demand Factor	Estimated Demand	Panel Totals								
Lighting		510 VA	125.00%	638 VA									
Other		3800 VA	111.84%	4250 VA	Total Conn. Load: 13090 VA								
Power		8420 VA	100.00%	8420 VA	Total Est. Demand: 13668 VA								
Receptacle		360 VA	100.00%	360 VA	Total Conn. Current: 36 A								
					Total Est. Demand Current: 38 A								
Notes:													



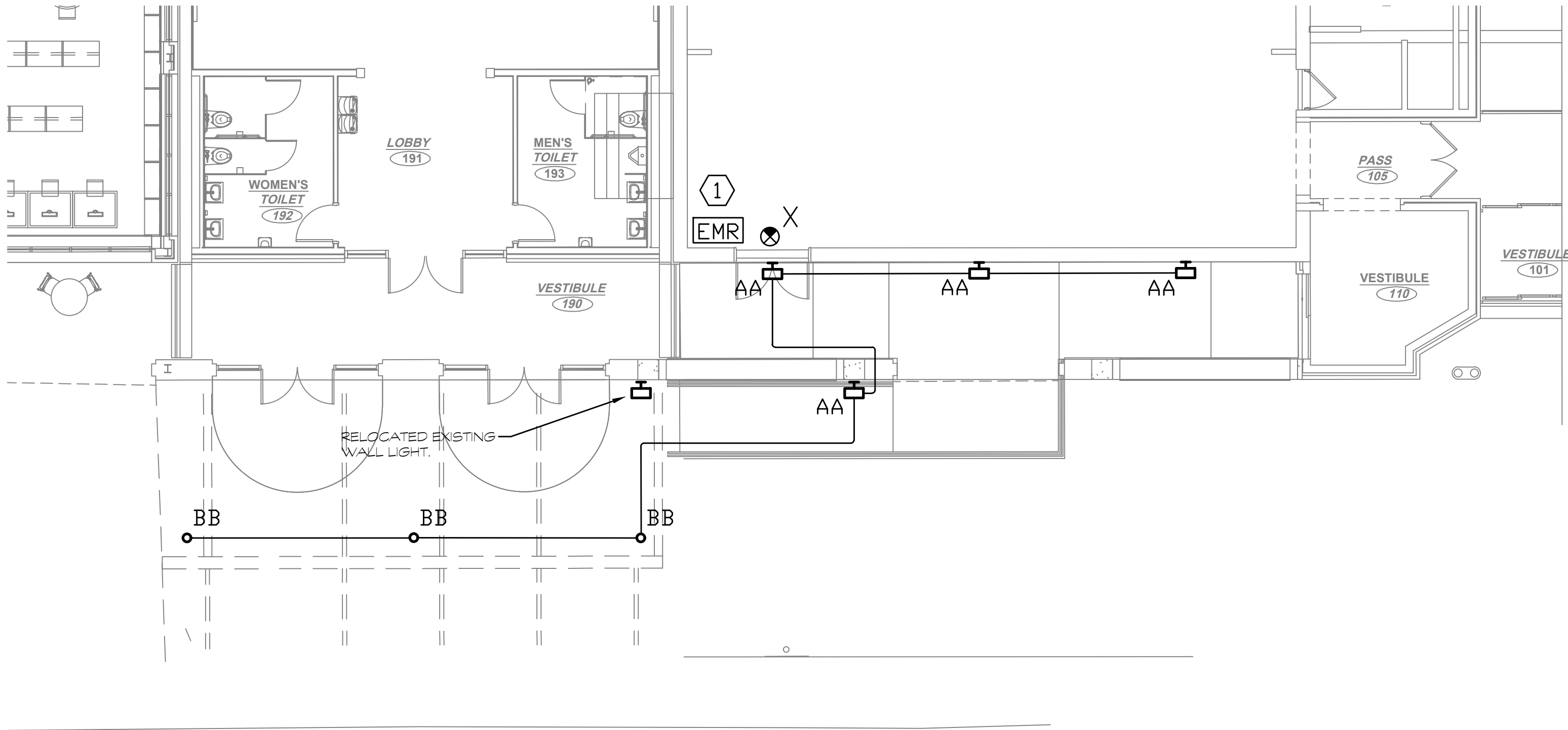
LIGHTING FIXTURE SCHEDULE									
DESIGNATION	DESCRIPTION	MANUFACTURER/ MODEL NUMBER	LAMP			ELECTRICAL			NOTES
			TYPE	COLOR TEMP	NO	DRIVER	VOLTAGE	WATTS	
A	RECESSED 2 X 2 LED DIRECT/INDRECT WITH SMOOTH CENTER DIFFUSER	PHILLIPS 25T944L840-2-D-UNV	LED	4,000	-	ELECTRONIC	UNIVERSAL	51	①
A1	RECESSED 2 X 2 LED TROFFER WITH FLAT ACRYLIC LENS	PHILLIPS 2T945L840-2-FS-12F-UNV	LED	4,000	-	ELECTRONIC	UNIVERSAL	51	①
B	SURFACE 1 X 4 LED DIRECT/INDRECT WITH SMOOTH CENTER DIFFUSER	PHILLIPS 189T35L840-4-D-UNV	LED	4,000	-	ELECTRONIC	UNIVERSAL	31	①
C	PENDANT DIRECT/INDRECT 9" X 8" LINEAR LED WITH MESO OPTICS LENS AND 80% DOWN KITS	PHILLIPS 7606-L-2-C-Q-G-S-277	LED	4,000	-	ELECTRONIC	277	40	①②
F	6" ROUND DOWNLIGHT - INTERIOR	PHILLIPS P6RD25NZOUVB-P6RD840-P6RDCL	LED	4,000	-	ELECTRONIC	UNIVERSAL	35	①
FI	4" ROUND DOWNLIGHT - EXTERIOR	PHILLIPS P4RD15NZOUVB-P4RD840VB-P4RDCL	LED	4,000	-	ELECTRONIC	UNIVERSAL	17	①
G	4" LED PENDANT LINEAR STRIP WITH FROSTED ACRYLIC LENS	PHILLIPS F55470L840-UNV-PKR-120	LED	4,000	-	ELECTRONIC	UNIVERSAL	56	①③
G1	4" LED WALL MOUNTED LINEAR STRIP WITH FROSTED ACRYLIC LENS	PHILLIPS F55470L840-UNV-F5TH	LED	4,000	-	ELECTRONIC	UNIVERSAL	56	①
H	3" ROUND PN DOWNLIGHT WITH BLACK TRIM RING	PHILLIPS C3LO85N-UZICV	LED	4,000	-	ELECTRONIC	UNIVERSAL	20	①
J	8" DIAMETER DIRECT/INDRECT DECORATIVE PENDANT CYLINDER	PHILLIPS C0824UDXT-20LM-D-20L-40K-EX-TSG-S0	LED	4,000	-	ELECTRONIC	UNIVERSAL	22	①
X	SINGLE FACE EDGE LIT EXIT SIGN	PHILLIPS ER44RLDUWR	LED	-	-	ELECTRONIC	120	3	①②③
X1	DOUBLE FACE EDGE LIT EXIT SIGN	PHILLIPS ER44RLDU2WR	LED	-	-	ELECTRONIC	120	3	①②③
XHG	SINGLE FACE EDGE LIT ADA EXIT SIGN WITH DYNAMIC HANDICAP SYMBOL	EXTRONIX CTC902-S-WB-RC-WH	LED	-	-	-	-	-	①②③④
AA	WALL MOUNTED LED AREA LIGHT WITH DIE-CAST ALUMINUM HOUSING	RAB LIGHTING WPLED28N	LED	4,000	-	ELECTRONIC	UNIVERSAL	26	①
BB	42" TALL LED SITE BOLLARD WITH ALUMINUM DIE-CAST HOUSING, FLAT TOP & CLEAR LENS	HUBBELL LIGHTING PATRFT1N/U/5/12L-020-4KT/42A/BD/MV/UNV	LED	4,000	-	ELECTRONIC	UNIVERSAL	22	①

LIGHT FIXTURE SCHEDULE NOTES:

- ① FURNISH WITH ALL REQUIRED MOUNTING HARDWARE, AND CONNECTING CABLE.
- ② PROVIDE W/ FEATURES & ACCESSORIES NECESSARY FOR UNIVERSAL (TOP, BACK & END) MOUNTING AND UNIVERSAL DIRECTIONAL ARROW KNOCKOUTS. ARROWS ON PLANS INDICATE DIRECTION OF CHEVRONS. SHADING INDICATES FIXTURE FACE.
- ③ CONTRACTOR SHALL COORDINATE ALL LUMINAIRE LOCATION WITH ARCHITECTURAL, STRUCTURE, MECHANICAL, AND PLUMBING SYSTEM IN THE FIELD. VERIFY LUMINAIRE MOUNTING REQUIREMENTS FOR CEILING TYPE AND ORDER APPROPRIATE HARDWARE. REFER TO LIGHTING SCHEDULE FOR ADDITIONAL INFORMATION.
- ④ FIXTURE TO BE SUSPENDED AT SAME EXISTING HEIGHT FROM FINISH FLOOR TO BOTTOM OF FIXTURE. VERIFY LUMINAIRE MOUNTING REQUIREMENTS FOR CEILING TYPE AND ORDER APPROPRIATE HARDWARE.
- ⑤ CONTRACTOR TO VERIFY MOUNTING DIRECTIONS IN THE FIELD PRIOR ORDERING SIGNS. REFER TO SYMBOL LEGEND FOR EXIT SIGN CHEVRON DIRECTION.
- ⑥ ALL ADA SYMBOLS ARE TO BE THE NEW DYNAMIC CHARACTER, PURSUANT TO CONNECTICUT PUBLIC ACT NO. 16-78.
7. CONTRACTOR SHALL CONNECT EXIT SIGN TO LOCAL LIGHTING BRANCH CIRCUIT AHEAD OF SWITCHING DEVICE, TYPICAL.

EQUIPMENT SCHEDULE										
SYMBOL	VOLTAGE	PHASE	FLA	DISCONNECT SWITCH	BREAKER	PANEL	CONDUIT & WIRE	CONNECTION	LOCATION	NOTES
AHU-1	208	3	47.4	60A-3P	60A-3P	PP	1C, 3#6, 1#10G	WIRE TO DISCONNECT	ROOF	①②③
AHU-2	208	3	44.3	60A-3P	60A-3P	PP	1C, 3#6, 1#10G	WIRE TO DISCONNECT	ROOF	①②③
EF-1	120	1	5	30A	20A-1P	ELP2	3/4"C, 2#12, 1#12G	WIRE TO THERMOPLASTIC TOGGLE SWITCH DISC.	ROOF	①②
EF-2	120	1	5	30A	20A-1P	PP	3/4"C, 2#12, 1#12G	WIRE TO THERMOPLASTIC TOGGLE SWITCH DISC.	ROOF	①②
EF-3	120	1	5	30A	20A-1P	PP	3/4"C, 2#12, 1#12G	WIRE TO THERMOPLASTIC TOGGLE SWITCH DISC.	ROOF	①②
EH-1	120	1	12.5	30A	20A-1P	ELP2	3/4"C, 2#12, 1#12G	WIRE TO THERMOPLASTIC TOGGLE SWITCH DISC.	TOILET ROOM	①
EH-2	208	1	19.2	30A-2P	30A-2P	PP	3/4"C, 3#10, 1#10G	WIRE TO THERMOPLASTIC TOGGLE SWITCH DISC.	TOILET ROOM	②
EH-3	208	1	19.2	30A-2P	30A-2P	PP	3/4"C, 3#10, 1#10G	WIRE TO THERMOPLASTIC TOGGLE SWITCH DISC.	TOILET ROOM	②
SWH-1										
SWH-2										

- NOTES:
- ① DISCONNECT, STARTER SWITCH OR VARIABLE FREQUENCY DRIVE FURNISHED BY MECHANICAL CONTRACTOR AND WIRE BY ELECTRICAL.
- ② CONTROLLED BY PROVIDED WALL-MOUNTED TOGGLE SWITCH.
- ③ EQUIPMENT WITH ELECTRICAL SINGLE POINT CONNECTION.
- ④ DISCONNECT SWITCH INTEGRAL TO THE HEATER AND WIRED BY ELECTRICAL CONTRACTOR.
- ⑤ UNIT TO BE PROVIDED WITH INTEGRATED SERVICE POWER RECEPTACLE. CONTRACTOR TO PROVIDE 20A-1P, 3/4"C, 2#12, 1#12G FROM PP ELECTRICAL PANEL.
6. UPGRADE WIRE SIZE AS REQUIRED TO MAINTAIN 3% MAXIMUM VOLTAGE DROP.



LIGHTING KEY NOTES: #

1. PROVIDE EMERGENCY SHUNT TRIP RELAY (STD20A) FOR NEW TYPE 'AA' WALL LIGHTS AND TYPE 'BB' BOLLARDS. MOUNT RELAY INSIDE BUILDING. INTERCONNECT WITH LIGHTING CIRCUIT SERVING OUTSIDE LIGHTS AND PROVIDE AN ALTERNATE CIRCUIT FROM EMERGENCY PANEL ELP2-23. REFER TO UL924 RELAY WIRING DIAGRAM ON DRAWING E-5 AND PANEL BOARD SCHEDULE FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION IN FIELD.



DEMOLITION NOTES	GENERAL NOTES	ELECTRICAL SYMBOL LEGEND						
<div><div>1. UNLESS OTHERWISE INDICATED, THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL INDICATED ELECTRICAL EQUIPMENT, ACCESSORIES, CONTROLS, DEVICES, AND ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE OR LAST DEVICE.</div><div>2. NO EQUIPMENT OR DEVICES THAT HAVE BEEN DISCONNECTED AND OR ABANDONED SHALL REMAIN.</div><div>3. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS AND CONDITIONS IN AREAS OF RENOVATION.</div><div>4. ANY SYSTEMS OR EQUIPMENT TO REMAIN ACTIVE DURING RENOVATION SHALL BE KEPT IN OPERATION BY PROVIDING TEMPORARY CONNECTIONS AS REQUIRED UNTIL NEW SYSTEMS ARE INSTALLED AND OPERATIONAL.</div><div>5. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER, CM, AND OR GENERAL CONTRACTOR ANY AND ALL PHASES OF THE MECHANICAL DEMOLITION WORK IN ORDER TO SATISFY THE CONSTRUCTION SCHEDULE AND OWNERS OCCUPANCY REQUIREMENTS.</div><div>6. ANY ELECTRICAL EQUIPMENT TO BE REMOVED AND REUSED OR TURNED OVER TO THE OWNER AT OWNERS REQUEST OR AS INDICATED ON THE DRAWINGS SHALL BE CAREFULLY REMOVED AND STORED TO PREVENT DAMAGE.</div><div>7. THE ELECTRICAL CONTRACTOR SHALL ALSO REVIEW THE ARCHITECTURAL DEMOLITION DRAWINGS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.</div><div>8. ALL SERVICE INTERRUPTIONS SHALL BE COORDINATED AND APPROVED WITH THE OWNER IN ADVANCE PRIOR TO COMMENCEMENT OF ANY WORK.</div><div>9. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS DEMOLITION WORK WITH THAT OF OTHER TRADES IN ORDER TO AVOID CONFLICTS.</div><div>10. ELECTRICAL COMPONENTS SHOWN ON THE DEMOLITION DRAWINGS, AND THE ASSOCIATED CONDUIT, WIRE & BOXES ARE TO BE REMOVED AND DISPOSED OF UNLESS SPECIFICALLY NOTED OTHERWISE.</div><div>11. ALL MATERIALS BEING REMOVED SHALL BE HANDLED IN A MANNER COMPLYING WITH ALL PERTINENT LAWS, CODES AND ENVIRONMENTAL REGULATIONS.</div><div>12. ALL REMOVED COMPONENTS SHALL BE LEGALLY DISPOSED OF BY CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.</div><div>13. WHERE EXISTING DEVICES ARE REMOVED & NO NEW DEVICES ARE INSTALLED IN THE SAME LOCATION, REMOVE ALL WIRING FROM BOX & PROVIDE PROPERLY SIZED BLANK COVER PLATE.</div><div>14. WHERE ELECTRICAL EQUIPMENT & DEVICES ARE BEING REMOVED, COORDINATE AND FIELD VERIFY IF BRANCH CIRCUIT FEEDS THROUGH TO EQUIPMENT/DEVICES TO REMAIN. BRANCH CIRCUITS SHALL BE SPliced OR RELOCATED TO MAINTAIN CONTINUATION OF SERVICES.</div></div>	<div><div>1. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK REQUIRED FOR A COMPLETE, FULLY OPERABLE INSTALLATION. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST APPROVED ISSUE OF THE NEC AND APPLICABLE LOCAL CODES.</div><div>2. THIS IS AN EXISTING BUILDING. WITH AN EXISTING SERVICE. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID TO ASCERTAIN FIELD CONDITIONS AS THEY EXIST AND JUDGE THEIR EFFECT ON THE WORK TO BE DONE. NO ALLOWANCE WILL BE MADE FOR FAILURE TO VISIT THE JOB SITE AND MAKE THIS DETERMINATION.</div><div>3. THE DRAWINGS SHOW THE GENERAL LAYOUT AND SOME OF THE DETAIL, BUT THEY DO NOT SHOW EVERY FITTING, BEND, ETC. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SUCH MATERIALS TO MAKE A COMPLETE INSTALLATION.</div><div>4. DO NOT SCALE DRAWINGS; ACTUAL FIELD MEASUREMENTS AND DIMENSIONS TAKE PRECEDENCE IN ALL CASES.</div><div>5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT, AIA DOCUMENT 201, LATEST EDITION.</div><div>6. ELECTRICAL CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND/OR REQUIREMENTS FOR PROPER OPERATION AND MAINTENANCE.</div><div>7. ELECTRICAL CONTRACTOR SHALL GIVE OWNER 7 DAYS ADVANCE NOTICE OF SHUTDOWNS. SHUTDOWNS TO BE KEPT TO A MINIMUM. AT NO TIME SHALL THE BUILDING/SPACE BE LEFT WITHOUT COMMERCIAL POWER IN FULL OPERATING ORDER.</div><div>8. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING OF ALL PHASES OF THE WORK AND TO DEMONSTRATE TO OWNER THAT THE EQUIPMENT IS IN FULL OPERATING ORDER.</div><div>9. ELECTRICAL CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED TO THEIR ORIGINAL CONDITION. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, PATCHING, PAINTING, CLEANUP, ELECTRICAL DEBRIS REMOVAL, AND GENERAL COORDINATION OF THE WORK EFFORT AS REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL ITEMS OF WORK.</div><div>10. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL IN COMPLETE WORKING ORDER.</div><div>11. THE SCOPE OF WORK IS AS SHOWN ON THE PLANS AND DETAILED IN THE SPECIFICATIONS.</div><div>12. ALL THE WIRE SIZES ARE BASED ON COPPER. ALUMINUM IS NOT TO BE USED.</div><div>13. ALL WIRING METHODS ARE TO BE IN ACCORDANCE WITH THE CURRENT ISSUE OF THE NATIONAL ELECTRICAL CODE, AND APPLICABLE LOCAL CODES. ALL WIRING IS TO BE IN CONDUIT, UNLESS SPECIFICALLY NOTED OTHERWISE. ALL WIRING IS TO BE CONCEALED.</div><div>14. PROVIDE INDEPENDENT SEISMIC SUPPORT OF ALL ELECTRICAL EQUIPMENT PER INTERNATIONAL BUILDING CODE.</div><div>15. ELECTRICAL CONTRACTOR SHALL SECURE ALL PERMITS AND PAY FOR ALL REQUIRED FEES, INCLUDING ALL UTILITY FEES.</div><div>16. ELECTRICAL CONTRACTOR SHALL WARRANT AND GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.</div><div>17. ELECTRICAL CONTRACTOR SHALL PROVIDE PROOF OF LIABILITY AND PROPERTY INSURANCE TO THE OWNER. ALL DEDUCTIBLES SHALL BE PAID FOR BY THE ELECTRICAL CONTRACTOR IN THE EVENT OF A CLAIM.</div><div>18. PERSONNEL SAFETY IS OF PRIME IMPORTANCE. NO HAZARDOUS CONDITION MUST BE ALLOWED. EVERY CARE MUST BE TAKEN TO PROTECT CONSTRUCTION AND OTHER PERSONNEL. CLEANUP IS TO BE DONE ON A DAILY BASIS. ELECTRICAL CONTRACTOR TO REMOVE AND DISPOSE OF REFUSE FROM SITE.</div><div>19. ELECTRICAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL FOR ALL LIGHTING FIXTURES, PANELS, SWITCHES, RECEPTACLES, ... ETC.</div><div>20. ELECTRICAL CONTRACTOR TO VERIFY LIGHTING FIXTURE MOUNTING REQUIREMENTS FOR VARIOUS CEILING TYPES AND ORDER APPROPRIATE HARDWARE.</div><div>21. COORDINATE EXACT PLACEMENT OF EQUIPMENT WITH ARCHITECTURAL AND MECHANICAL PLANS, MAKE FIELD ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS. VERIFY WITH OWNER.</div><div>22. ELECTRICAL CONTRACTOR TO COORDINATE WITH ARCHITECTURAL AND MECHANICAL CONTRACTOR FOR ITEMS SUPPLIED BY THE MECHANICAL/OTHER DIVISIONS BUT INSTALLED BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO REVIEW ALL THE PLANS FOR THE PROJECT FOR ELECTRICAL WORK.</div><div>23. ELECTRICAL CONTRACTOR TO VERIFY ALL EQUIPMENT POWER NEEDS WITH THE ACTUAL SHOP DRAWINGS FOR THE EQUIPMENT TO BE USED, PRIOR TO STARTING ANY ELECTRICAL WORK.</div><div>24. SPECIFICATION SECTIONS, GENERAL CONDITIONS, SUPPLEMENTAL GENERAL CONDITIONS AND DRAWINGS ARE INTEGRAL PARTS OF CONTRACT DOCUMENTS.</div><div>25. ALL ELECTRICAL PENETRATIONS TO BE PREPROOFED TO MAINTAIN INTEGRITY OF FIRE WALLS/FLOORS/CEILINGS.</div><div>26. PROVIDE LAMICOD NAMEPLATES FOR ALL ELECTRICAL DISTRIBUTION AND DISCONNECT EQUIPMENT.</div><div>27. THE DISPOSAL OF ALL UNUSED EXISTING ELECTRICAL EQUIPMENT REMOVED IS A PART OF THE SCOPE OF WORK. THE ELECTRICAL CONTRACTOR SHALL DISPOSE OF ALL SUCH EQUIPMENT, INCLUDING HAZARDOUS PCB CONTAINING BALLASTS, IN A MANNER CONSISTENT WITH STATE OF CT. DEPARTMENT OF ENVIRONMENTAL PROTECTION REGULATIONS, CURRENT ISSUE.</div><div>28. SHARED NEUTRALS ARE NOT TO BE USED. PROVIDE SEPARATE NEUTRALS FOR ALL CIRCUITS.</div><div>29. PRIOR TO SUBMISSION OF BIDS GIVE WRITTEN NOTICE TO ARCHITECT AND ENGINEER OF ANY MATERIAL OR APPARATUS THAT IS INADEQUATE, UNSUITABLE FOR THE USE, IN VIOLATION OF LAWS, ORDINANCES, RULES, CODES OR ANY REGULATIONS OF AUTHORITIES HAVING JURISDICTION OR ANY NECESSARY ITEMS OF WORK THAT HAS BEEN OMITTED. CONTRACTOR AGREES THAT ABSENT SUCH NOTICE, ALL SYSTEMS WILL FUNCTION SATISFACTORILY WITHOUT ADDITIONAL EXTRA COMPENSATION.</div><div>30. ALL PART NUMBERS ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THEY ARE NOT TO BE CONSIDERED THE COMPLETE SPECIFICATION OF THE PRODUCT. THE PART NUMBER AND DESCRIPTION WILL BE THE COMPLETE SPECIFICATION. IN THE EVENT OF A DISCREPANCY BETWEEN THE TWO, THE MORE STRINGENT, MORE COSTLY FEATURE/PREFORMANCE WILL BE REQUIRED.</div><div>31. RISER DIAGRAMS ARE PROVIDED TO SHOW DIAGRAMMATIC GENERAL WIRING REQUIREMENTS. WIRING IS TO BE PROVIDED FOR THE PARTICULAR VENDOR/SYSTEM APPROVED FOR THE PROJECT. ALL WIRING IS TO BE CONCEALED.</div><div>32. NO LOW VOLTAGE WIRING SHALL BE PERMITTED IN THE SAME RACEWAY AS POWER WIRING.</div><div>33. FURNISH & INSTALL GFCI RECEPTACLES IN ALL WET LOCATIONS.</div><div>34. PROVIDE DRAG LINES IN ALL EMPTY RACEWAYS.</div><div>35. CIRCUIT NUMBERS ARE INDICATED FOR INTENT ONLY. THE ELECTRICAL CONTRACTOR SHALL ADJUST ACCORDINGLY IN THE FIELD, TO BALANCE CIRCUITS EVENLY ON ALL PHASES.</div><div>36. REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES AND OUTLETS.</div><div>37. CONTRACTOR TO PROVIDE ALL TEMPORARY POWER FOR THE PROJECT. PROVIDE ALL UTILITY COMPANY COORDINATION FOR ALL SERVICES.</div><div>38. FOR ALL FLOOR BOXES WITH DATA COMMUNICATIONS SERVICES PROVIDE (2) 3/4" EMPTY CONDUITS TO HUNG CEILING OR OTHER ACCESSIBLE SPACE. INSTALL A DRAG WIRE.</div><div>39. FOR ALL WALL/CEILING BOXES FOR DATA COMMUNICATIONS PROVIDE 3/4" EMPTY CONDUITS TO HUNG CEILING OR OTHER ACCESSIBLE SPACE. INSTALL A DRAG WIRE.</div><div>40. MINIMUM CONDUCTOR SIZE, UNLESS OTHERWISE NOTED SHALL BE #12 FOR ALL BRANCH CIRCUIT RUNS UP TO THE FIRST OUTLET. OVER 100 FEET, #10. OVER 150 FEET, #8. INCREASE CONDUIT SIZE TO SUIT.</div><div>41. ELECTRICAL CONTRACTOR TO VERIFY LOADS, SETTINGS, OVERCURRENT PROTECTION, ... ETC TO INSURE COMPATIBILITY OF EQUIPMENT.</div><div>42. NO PENETRATIONS ARE ALLOWED INTO STAIR ENCLOSURES EXCEPT AS REQUIRED FOR SERVICES UTILIZED IN THE STAIR.</div><div>43. REPAIR AND REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION.</div><div>44. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL DEMOLITION WITH BASE BUILDING ELECTRICIAN.</div><div>45. APPEARANCE OF ALL VISIBLE FEATURES IS OF ESPECIAL IMPORTANCE IN OCCUPIED AREAS. LOCATION SHOWN ON DRAWINGS IS DIAGRAMMATIC AND NOT INTENDED TO DETERMINE EXACT LOCATION. CONTACT ARCHITECT TO REVIEW FINAL LOCATIONS PRIOR TO INSTALLATION. FAILURE TO DO SO MAY RESULT IN REQUIREMENT TO RELOCATE.</div><div>46. PRODUCTS SHALL NOT BE INSTALLED IN PROMINENT LOCATIONS UNLESS NO ALTERNATIVE EXISTS. ITEMS SHALL BE CENTERED ON WALL OR CEILING. TREATMENT AND ON ONE ANOTHER AS APPLICABLE. THIS INCLUDES BUT IS NOT LIMITED TO ACCESS PANELS, LIGHTING FIXTURES, SWITCHES, THERMOSTATS, FIRE ALARM DEVICES, EXIT SIGNS, ELECTRICAL PANELS, AND ANNUNCIATOR PANELS OF ANY KIND.</div><div>47. ELECTRICAL CONDUITS & BOXES SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS WHEREVER POSSIBLE.</div><div>48. ALL INSTALLATIONS ON NEW WALLS SHALL BE FULLY RECESSED. INSTALLATIONS ON EXISTING MASONRY WALLS SHALL BE RUN WITH SURFACE RACEWAY PAINTED TO MATCH WALL FINISH AND SURFACE BOXES. INSTALLATIONS ON EXISTING STUD WALLS SHALL CUT IN OLD-WORK STYLE BOXES AND FISH WIRING IN WALL CAVITY.</div></div>	<div><div><div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>STK</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>BWC</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>MOTOR</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>SINGLE-POLE SWITCH, MOUNT AT 48" AFF.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>3-WAY SWITCH, MOUNT AT 48" AFF.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>4-WAY SWITCH, MOUNT AT 48" AFF.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>SINGLE-POLE KEY SWITCH, MOUNT AT 48" AFF.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>SINGLE-POLE, MOTION SENSOR SWITCH, MOUNT AT 48" AFF.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>DIMMING TOGGLE SWITCH.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>TOGGLE SWITCH WITH THERMAL OVERLOAD PROTECTION.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>EMERGENCY POWER OFF SWITCH.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>CEILING MOUNTED OCCUPANCY SENSOR.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>CEILING MOUNTED OCCUPANCY SENSOR. INTERCONNECT UNIT WITH SAME LOWERCASE.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER 44" A.F.F. OR 48" A.F.F. (IN TOILET AND CUSTODIAN ROOMS).</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>DUPLEX GROUND FAULT RECEPTACLE, MOUNTED ABOVE COUNTER 44" A.F.F. OR 48" A.F.F. (IN TOILET AND CUSTODIAN ROOMS).</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>SPECIAL DEDICATED RECEPTACLE. COORDINATE NEMA TYPE WITH EQUIPMENT.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>DUPLEX RECEPTACLE, MOUNT AT 18" AFF UNLESS OTHERWISE SPECIFIED.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>QUAD RECEPTACLE, MOUNT AT 18" AFF UNLESS OTHERWISE SPECIFIED.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>QUAD RECEPTACLE. MOUNT ABOVE COUNTER 44" A.F.F. UNLESS OTHERWISE SPECIFIED.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>POWER CONNECTION / QUAD RECEPTACLE TO SUIT SMART BOARD, MOUNT 6" FROM TOP OF BOARD TO CENTER OF QUAD RECEPTACLE. INSTALL 3/4" CONDUIT AND WIRING BACK TO CORRESPONDING PANELBOARD.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>RECEPTACLE WITH OUTDOOR RATED COVER PLATE. PROVIDE FLUSH MOUNTED BOX.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>TAMPERPROOF RECEPTACLE.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>SINGLE RECEPTACLE, MOUNT AT 18" AFF UNLESS OTHERWISE SPECIFIED.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>POKE-THRU FLOOR BOX WITH TWO GANG FOR POWER RECEPTACLE AND VOICE/DATA OUTLETS.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>COMPUTER NETWORK WORKSTATION PORT, MOUNT AT 18" AFF UNLESS OTHERWISE NOTED. PROVIDE TWO CAT 6 CABLES (4 PAIR UTP) ON EACH LOCATION. UNLESS NOTED OTHERWISE.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>VOICE/DATA OUTLET, 4" X 4" OUTLET BOX WITH A 1 GANG COVER 18 INCHES ABOVE FINISHED FLOOR OR AS NOTED WITH 3/4" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING AND TWO CAT 6 CABLES.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>VOICE WORKSTATION PORT, MOUNT AT 18" AFF UNLESS OTHERWISE NOTED. NOTED WITH 3/4" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING AND TWO CAT 6 CABLES.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>WALL MOUNT VOICE WORKSTATION PORT, MOUNT AT 48" AFF UNLESS OTHERWISE NOTED. NOTED WITH 3/4" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING AND TWO CAT 6 CABLES.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>WALL MOUNTED SPEAKER.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>CEILING RECESSED MOUNTED SPEAKER.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>WALL MOUNTED CLOCK.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>TV COAXIAL JACK LOCATION. PROVIDE NEW JACK & COAXIAL CABLE TO HEADEND EQUIPMENT. COORDINATE REQUIREMENTS OF JACK & CABLE WITH OWNER & SYSTEM INSTALLER.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>CALL-FOR-AID SWITCH, MOUNT AT 48" AFF WITH CORD EXTENDING TO WITHIN 12" OF FLOOR.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>CALL-FOR-AID CORRIDOR LIGHT/BUZZER.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>ENTRANCE INTERCOM SYSTEM.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>WIRELESS ACCESS POINT</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>RECESSED DOWNLIGHT FIXTURE. SUBLETTER INDICATES FIXTURE TYPE.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>EXTERIOR WALL MOUNT LIGHT FIXTURE. SUBLETTER INDICATES FIXTURE TYPE.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>UNIVERSAL, MOUNTED EXIT SIGN. SHADING INDICATES DIRECTION OF FIXTURE FACE. PROVIDE UNSWITCHED POWER FROM AREA LIGHTING CIRCUIT.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>DOUBLE FACE UNIVERSAL, MOUNTED EXIT SIGN. SHADING INDICATES DIRECTION OF FIXTURE FACE. PROVIDE UNSWITCHED POWER FROM AREA LIGHTING CIRCUIT.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>UNIVERSAL MOUNTED EXIT SIGN. SHADING INDICATES DIRECTION OF FIXTURE FACE. ARROW INDICATES DIRECTION OF CHEVRON. PROVIDE UNSWITCHED POWER FROM AREA LIGHTING CIRCUIT.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>TWIN HEAD EMERGENCY LIGHT WITH INTEGRAL BATTERY FOR 90 MINUTE EMERGENCY LIGHTING.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>ELECTRIC CONTRACTOR</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>LIGHTING CONTRACTOR</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>TIME CLOCK.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>POWER RECEPTACLE CONDUIT AND WIRE HOMERUN.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>LIGHTING AND EQUIPMENT CONDUIT AND WIRE HOMERUN.</div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div>CONDUIT AND WIRE, SWITCHED.</div></div></div></div></div>	ABBREVIATION			<div><div><div>AFF</div><div>ABOVE FINISHED FLOOR</div></div><div><div>C</div><div>CEILING MOUNTED</div></div><div><div>D</div><div>DRYER</div></div><div><div>G</div><div>GROUND FAULT INTERRUPTER</div></div><div><div>WM</div><div>WASHER MACHINE</div></div><div><div>INV</div><div>INVERTER / LIGHTING EMERGENCY CABINET</div></div><div><div>W</div><div>WASHER MACHINE</div></div><div><div>WG</div><div>WIRE GUARD</div></div><div><div>WP</div><div>WEATHERPROOF</div></div></div>		
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<div><div><div>AFF</div><div>ABOVE FINISHED FLOOR</div></div><div><div>C</div><div>CEILING MOUNTED</div></div><div><div>D</div><div>DRYER</div></div><div><div>G</div><div>GROUND FAULT INTERRUPTER</div></div><div><div>WM</div><div>WASHER MACHINE</div></div><div><div>INV</div><div>INVERTER / LIGHTING EMERGENCY CABINET</div></div><div><div>W</div><div>WASHER MACHINE</div></div><div><div>WG</div><div>WIRE GUARD</div></div><div><div>WP</div><div>WEATHERPROOF</div></div></div>								