Building 3 - Phase 2

ACCUSHARP

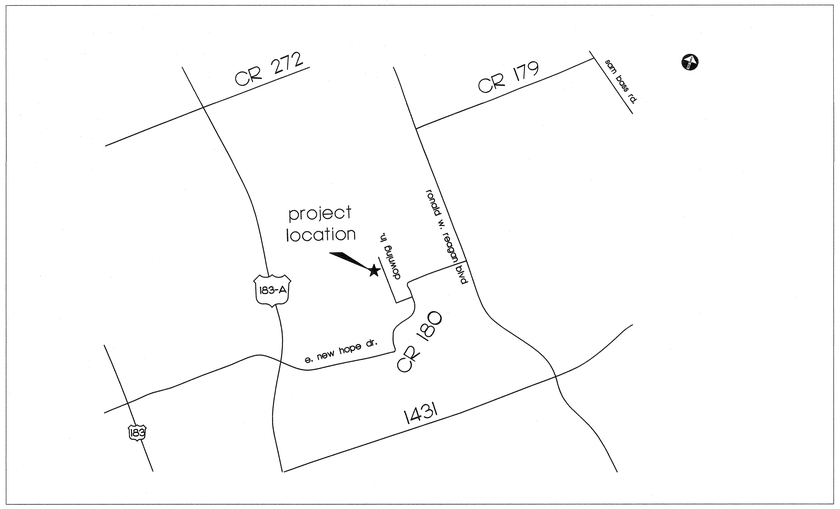
2205 DOWNING LANE, LEANDER TX 78641

~~BUILDING 1 & BUILDING 2 SHELL~~

LEGAL DESCRIPTION

REVISION OF LOT 1, DOWNING LANE SUBDIVISION
(PENDING RECORDATION)

VICINITY MAP



Note: (Bid Purposes Only)
References to building 2 are the basis for building 3.

PROJECT TEAM

OWNER/ DEVELOPER:
DOWNING LANE, LLC
2010 WINDY TERRACE
CEDAR PARK, TEXAS 78613

BUILDING DESIGN:
WORKMAN COMMERCIAL CONSTRUCTION SERVICES, LTD.
2211 SOUTH I.H. 35, SUITE 401
AUSTIN, TEXAS 78741
TEL: (512)326-9293

CIVIL ENGINEER:
BINKLEY AND BARFIELD, INC.
2401 DOUBLE CREEK DR. STE. 200
ROUND ROCK, TEXAS 78664
GARY ELI JONES- ENGINEER
TEL. (512)658-809

STRUCTURAL ENGINEER:
SYNERGETIC ENGINEERING, P.L.L.C
11509 AUTUMN RIDGE DRIVE
AUSTIN, TEXAS 78759
PAT SABLATURA-ENGINEER
TEL.(512)845-2760

MEP ENGINEER:
AYS ENGINEERING, LLC
411 W. MAIN STREET, SUITE 310
ROUND ROCK, TEXAS 78664
ROSS ALEMAN-ENGINEER
TEL.(512)961-6835

CONSTRUCTION ADMINISTRATION:
RC ARCHITECTS, INC.
AUSTIN, TEXAS 78737
RICK CANALES, ARCHITECT
TEL.(512)913-0597

BUILDING DATA
2015 INTERNATIONAL BUILDING CODE (WITH LOCAL AMENDMENTS)
2015 INTERNATIONAL MECHANICAL CODE (WITH LOCAL AMENDMENTS)
2014 NATIONAL ELECTRICAL CODE (WITH LOCAL AMENDMENTS)
2015 INTERNATIONAL PLUMBING CODE (WITH LOCAL AMENDMENTS)
2015 INTERNATIONAL FIRE CODE (WITH LOCAL AMENDMENTS)
2015 INTERNATIONAL ENERGY CONSERVATION CODE (WITH LOCAL AMENDMENTS)
2012 TEXAS ACCESSIBILITY STANDARDS

PROJECT DESCRIPTION:
THE PROJECT CONSIST OF A TWO SINGLE STORY BUILDINGS. BUILDING-1 AIR CONDITIONED WITH FINISH OUT OFFICE / WAREHOUSE BUILDING. BUILDING -2 **25,080** SF NON-AIR CONDITIONED SHELL OFFICE / WAREHOUSE BUILDING. THE BUILDINGS CONSTRUCTION CONSIST OF A CONCRETE FOUNDATION SYSTEM OF DRILLED PIERS SUPPORTING A STRUCTURAL STEEL FRAME. EXTERIOR WALL ARE LOAD BEARING TILT-UP CONCRETE PANELS. THE ROOF IS A ULTRA-DEK STAND SEAM OVER 6" VINYL BACK INSULATION SLOPING TO EXTERIOR GUTTERS AT REAR OF THE BUILDINGS. BOTH BUILDINGS SHALL BE FULLY SPRINKLED. (ESFR)

BUILDING-1 OCCUPANCY CLASSIFICATION GROUP:
GROUP B BUSINESS
GROUP F-1 FACTORY
GROUP S-1 STORAGE

BUILDING-1 CONSTRUCTION TYPE IIB - FULLY SPRINKLED

BUILDING-1 AREA SECTION TABLE 506.2:

ALLOWABLE AREA PER FLOOR TABLE TABLE 503;
GROUP B = 92,000 SF.
GROUP F-1 = 62,000 SF.
GROUP S-1 = 70,000 SF.

ACTUAL AREA PER FLOOR:
GROUP B = 8,184 SF.
GROUP F-1 = 10,259 SF.
GROUP S-1 = 6,770 SF.

TOTAL BUILDING-1 AREA: 25,213 SF.

BUILDING AREA MODIFICATIONS SECTION 507:
GROUP B BUSINESS = UNLIMITED AREA SECTION 507.4
GROUP F FACTORY = UNLIMITED AREA SECTION 507.4
GROUP S-1 STORAGE =UNLIMITED AREA SECTION 507.4

BUILDING-1 OCCUPANCY SEPARATION:

OCCUPANCY SEPARATION NOT REQUIRED GROUPS B, S-1, F1 TABLE 508.4

BUILDING-1 ALLOWABLE HEIGHT TABLE 504.3 = 75'

ACTUAL BUILDING HEIGHT = 38.5' < 75'

ALLOWABLE STORIES: TABLE 504.4
GROUP B - 4 STORIES
GROUP F-1 - 3 STORIES
GROUP S-1 - 3 STORIES

ACTUAL STORIES = SINGLE STORY

BUILDING-1 FIRE RESISTIVE REQUIREMENTS: TABLE 601

PRIMARY STRUCTURAL FRAME = 0 HRS.
BEARING WALLS EXTERIOR = 0 HRS.
BEARING WALL INTERIOR = 0 HRS.
NONBEARING WALL AND PARTITIONS = 0 HRS.
EXTERIOR WALLS TABLE 602: FIRE SEPARATION DISTANCE X>30' = 0 HRS.
NONBEARING R PARTITIONS = 0 HOURS
FLOOR CONSTRUCTION AND SECONDARY MEMBERS = 0 HRS.
ROOF CONSTRUCTION AND SECONDARY MEMBERS = 0 HRS.

OPENING PROTECTION: NOT REQUIRED DUE TO PROXIMITY

EXIT ACCESS TRAVEL DISTANCE: SECTION 1017.2
MAXIMUM : 250'(300' FOR B OCCUPANCY)
MAXIMUM COMMON PATH OF TRAVEL : 75'
MAXIMUM DEAD END CORRIDOR: 50'

DOORS:
PANIC HARDWARE OR FIRE EXIT HARDWARE IS REQUIRED ON DOOR SERVING AN OCCUPANT LOAD OF 50 OR MORE IF DOOR HAS A LATCH OR LOCK REQUIREMENT. DOOR MUST SWING IN THE DIRECTION OF TRAVEL FOR OCCUPANT LOADS OF 50 OR MORE.

BUILDING -2
OCCUPANCY CLASSIFICATION: S-2 STORAGE W/ ACCESSORY B
MINIMUM TYPE OF CONSTRUCTION: II-B, FULLY SPRINKLED

BUILDING-2 ALLOWABLE HEIGHT TABLE 504.3 = 75' ACTUAL BUILDING HEIGHT = 38.5' < 75'

ALLOWABLE STORIES: TABLE 504.4
GROUP B - 4 STORIES
GROUP S-1 - 3 STORIES

BUILDING-2 AREA SECTION TABLE 506.2:

ALLOWABLE AREA PER FLOOR TABLE TABLE 503;
GROUP B = 92,000 SF.
GROUP S-1 = 70,000 SF.

TOTAL BUILDING-2 AREA: 25,080 SF.

DRAWING INDEX

THIS SEAL ONLY APPLIES TO THE ITEMS THAT ARE CLOUDED IN THIS SET. ALL OTHER WORK WAS ORIGINATED BY A PREVIOUS CONSULTANT.

REGISTERED ARCHITECT RICK CANALES 18817 STATE OF TEXAS
10.6.20

DO NOT USE A HAND SCALE ON THESE DRAWINGS.

WORKMAN

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www.workmancommercial.com
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rickcanales.architect@gmail.com

ACCU SHARP®
2205 DOWNING LANE
LEANDER, TEXAS 78641

ACCUSHARP BUILDING 1 & BUILDING 2 SHELL

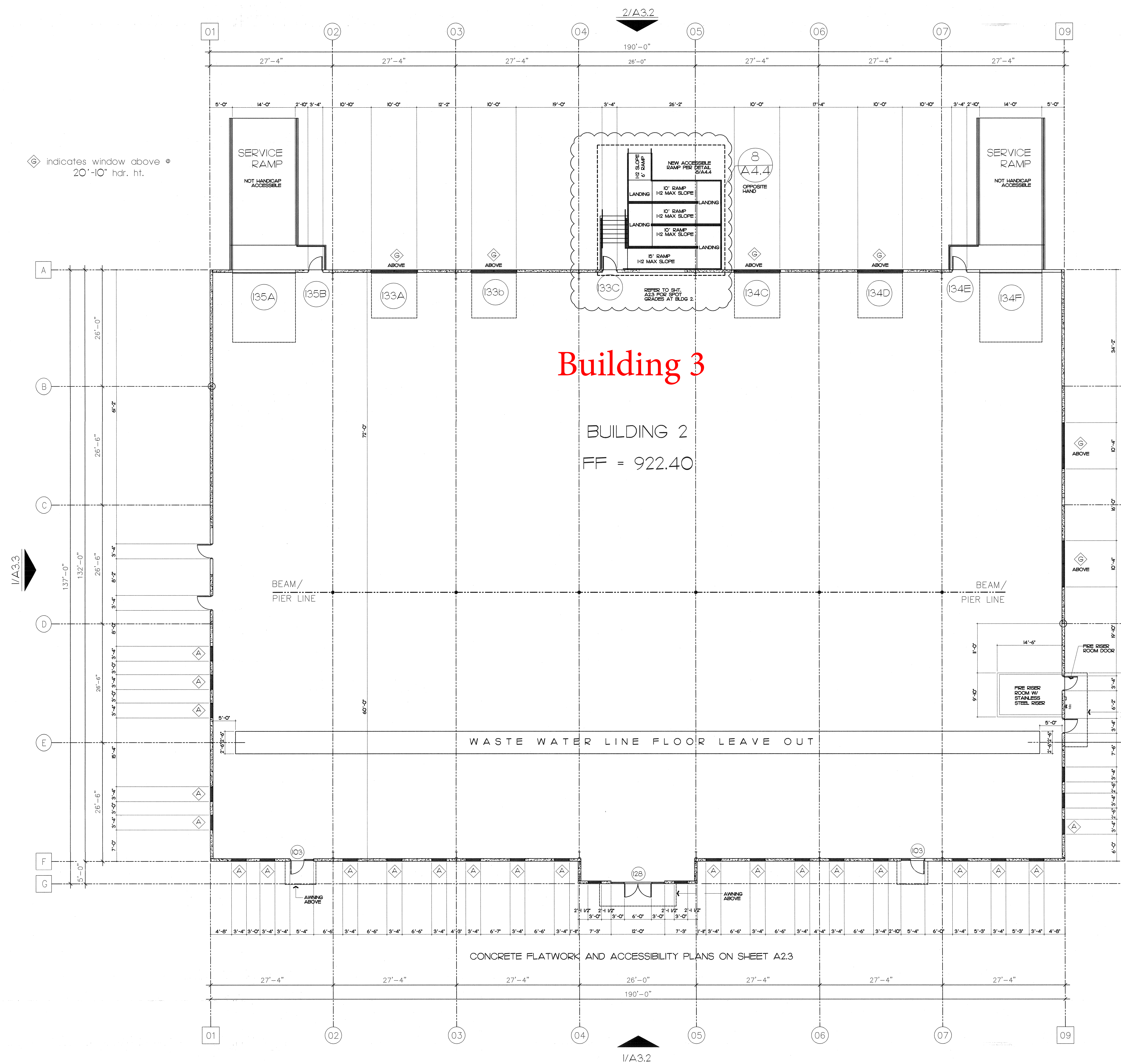
DOWNING LANE,
LEANDER TX 78641

COVER SHEET

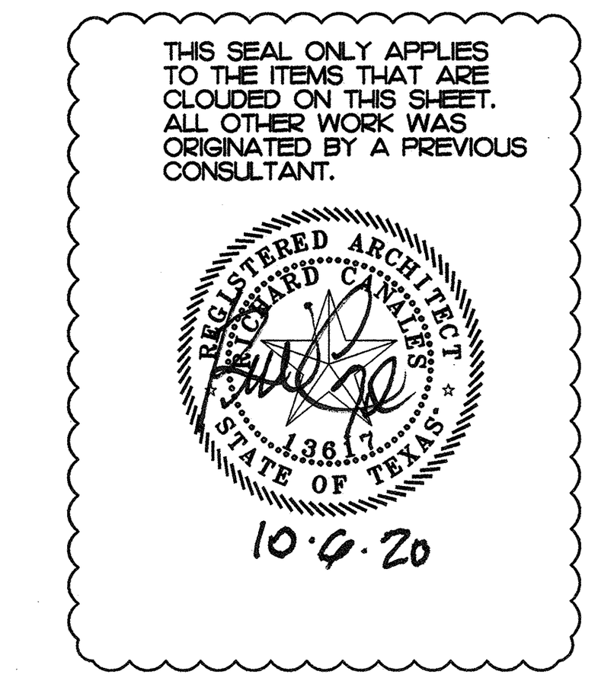
DATE: 10-6-2020

SHEET NUMBER

A1.0



2/A3.2
190'-0"
27'-4"
26'-0"
indicates window above
20'-10" hdr. ht.
SERVICE RAMP
NOT HANDICAP ACCESSIBLE
NEW ACCESSIBLE RAMP PER DETAIL 8/A4.4
10' RAMP 1:12 MAX SLOPE
15' RAMP 1:12 MAX SLOPE
LANDING
OPPOSITE HAND
REFER TO SHT. A2.3 FOR SPOT GRADES AT BLDG 2
ABOVE
135A
135B
133A
133b
133C
134C
134D
134E
134F
Building 3
BUILDING 2
FF = 922.40
BEAM/ PIER LINE
FIRE RISER ROOM DOOR
FIRE RISER ROOM W/ STAINLESS STEEL RISER
AWNING ABOVE
AWNING WIDTH
W A S T E   W A T E R   L I N E   F L O O R   L E A V E   O U T
103
128
CONCRETE FLATWORK AND ACCESSIBILITY PLANS ON SHEET A2.3
1/A3.2
1/A3.3
2/A3.3
137'-0"
132'-0"
26'-6"



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ACCUSHARP BUILDING 2 SHELL

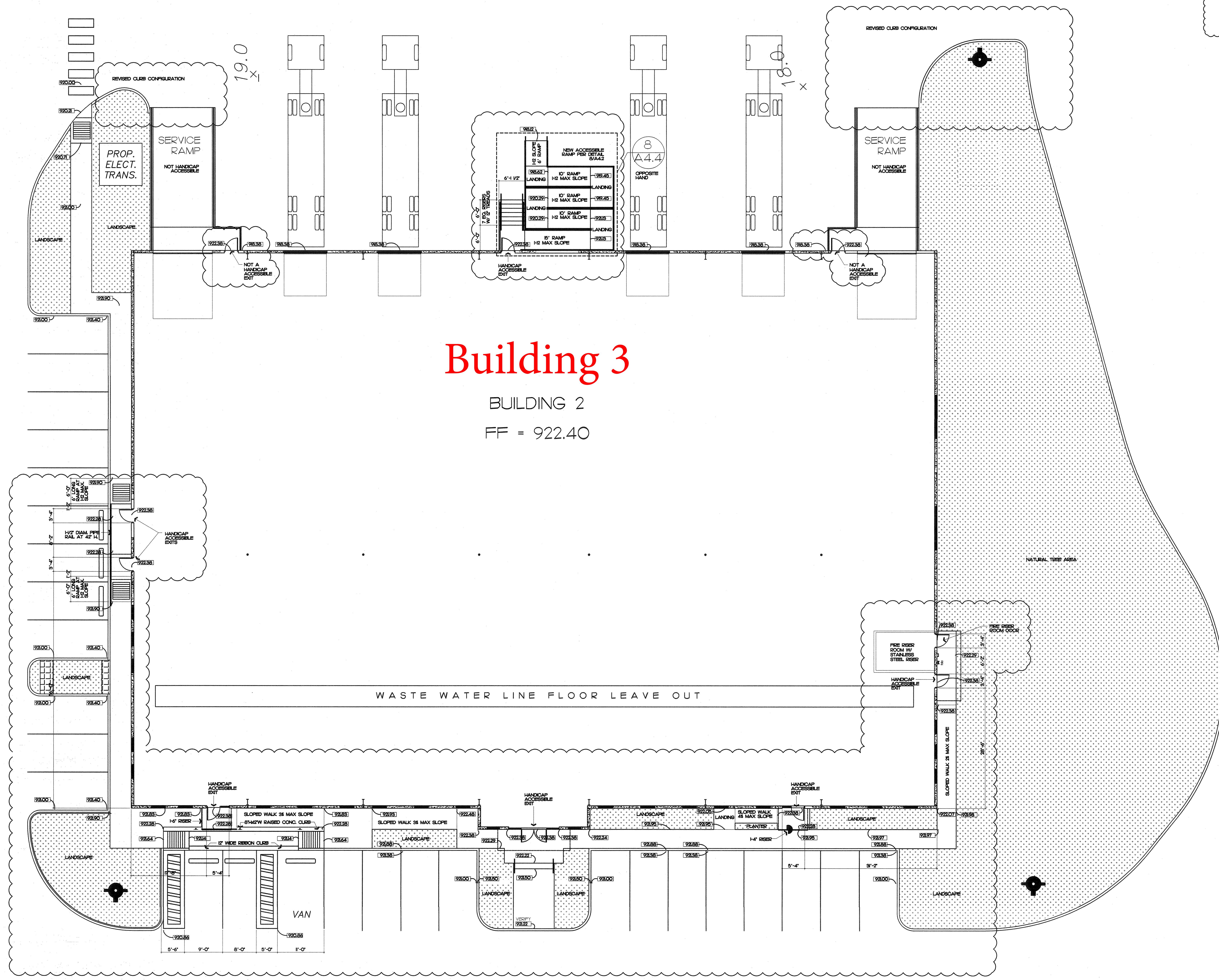
DOWNING LANE,
LEANDER TX 78641

BUILDING 2 OVERALL FLOOR PLAN

DATE: 10-6-20

SHEET NUMBER

A2.1



1 ACCESSIBLITY AND CONCRETE FLATWORK PLAN - NINE TOTAL EXITS, SEVEN ARE HANDICAP ACCESSIBLE, OVER 60%

SCALE: 3/32"=1'-0"

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ACCUSHARP BUILDING 2 SHELL

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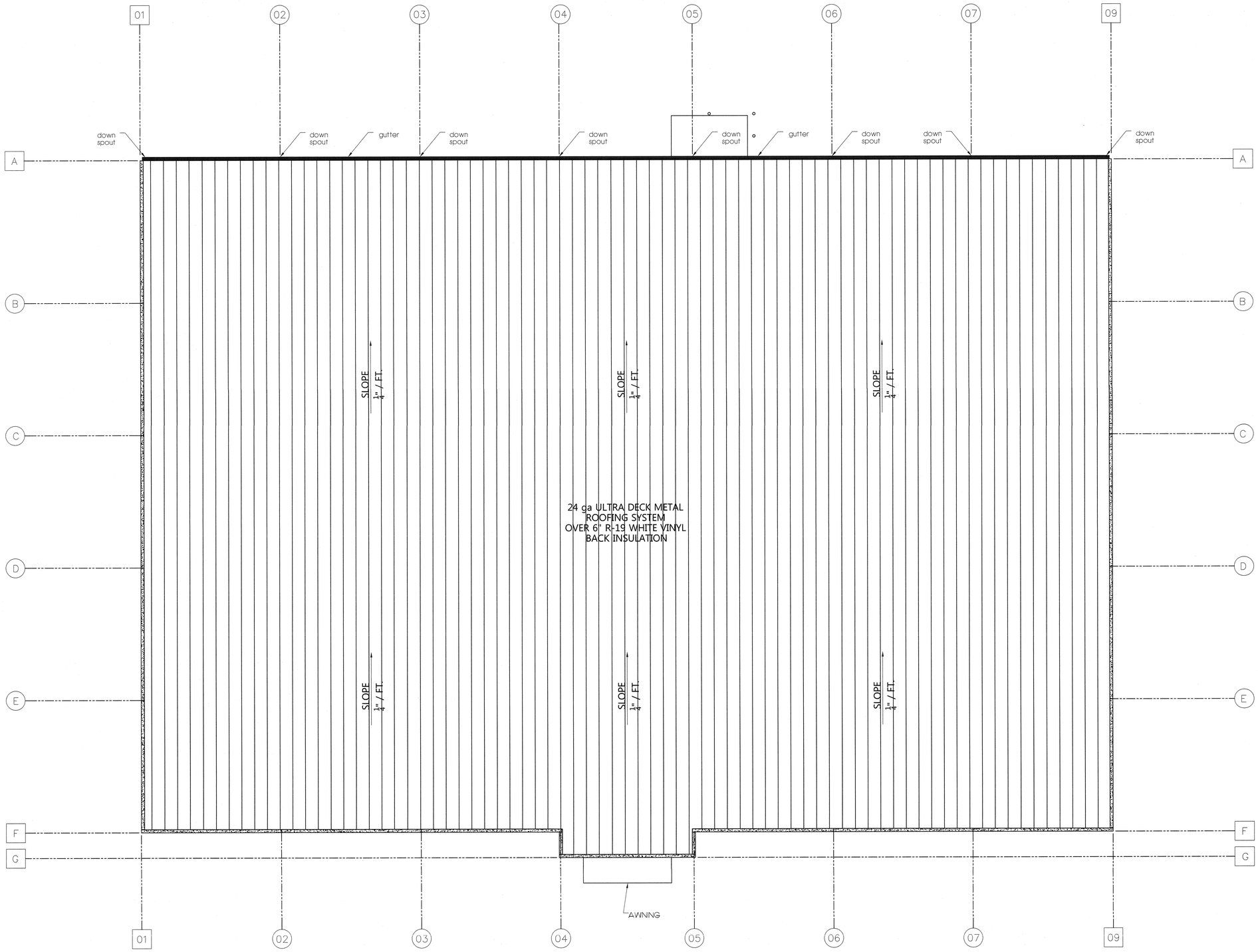
ACCESSIBILITY & FLATWORK PLAN

DATE: 10-6-20

SHEET NUMBER

A2.3



1 BUILDINGS 1 AND 2 ROOF PLANS PLAN (SOME AWNINGS NOT SHOWN)

SCALE 1/8"=1'-0"

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ACCUSHARP BUILDINGS 1 & 2

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LEANDER TX 78641

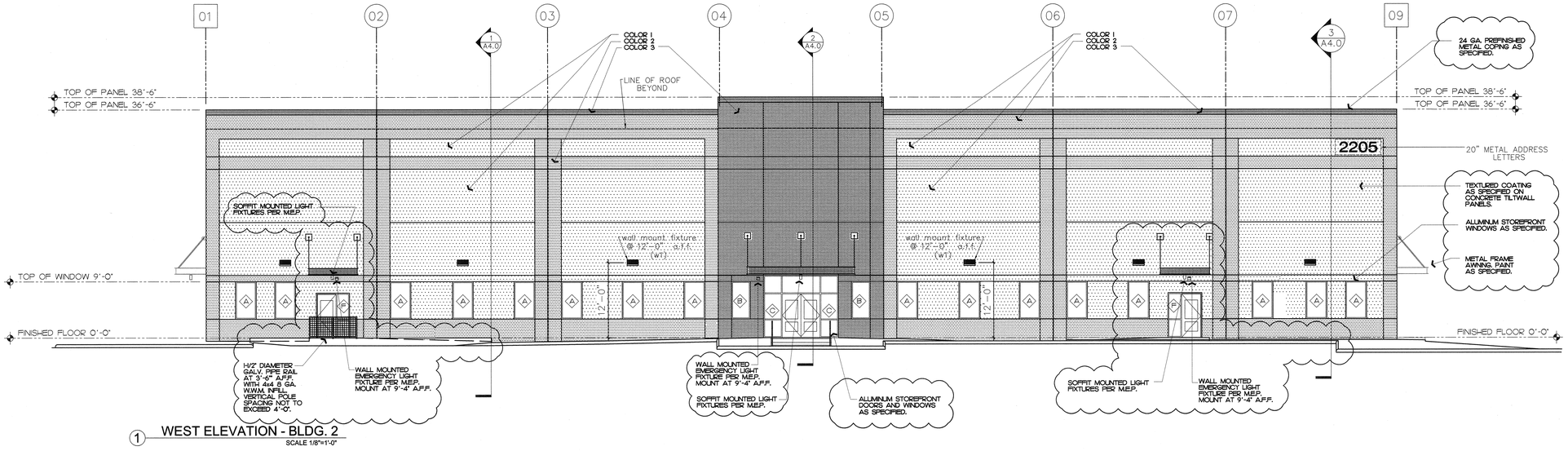
Building 3

BUILDINGS 1 & 2 ROOF PLANS

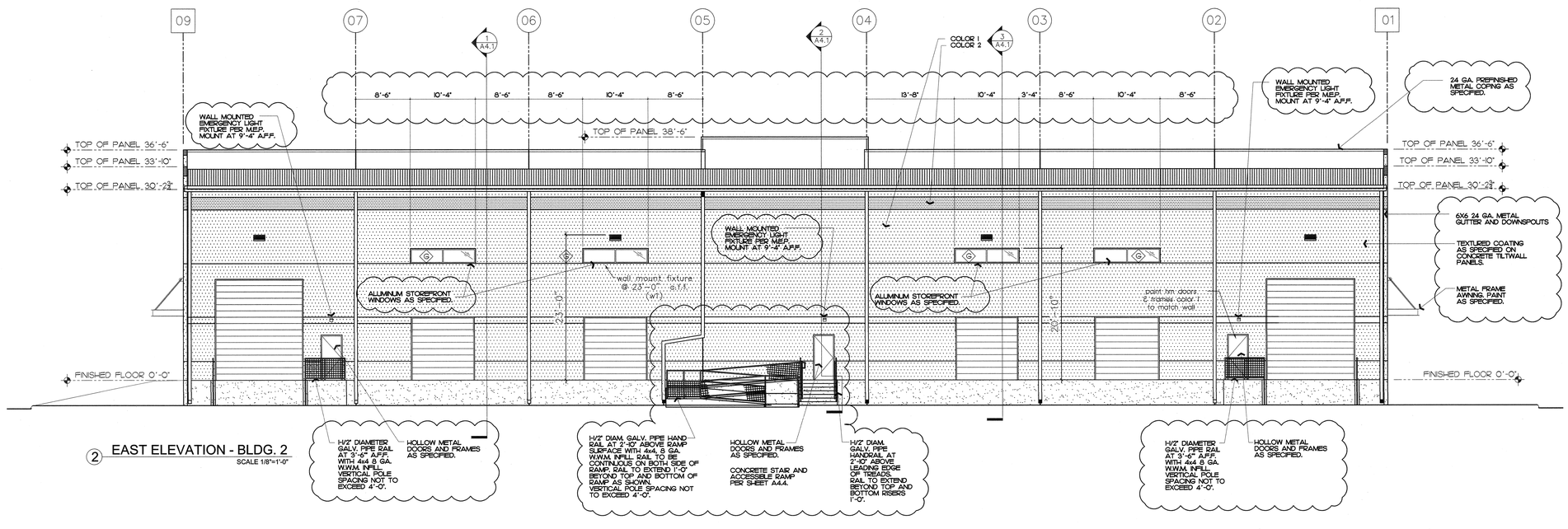
DATE: 10-6-20

SHEET NUMBER

A2.4



1 WEST ELEVATION - BLDG. 2
SCALE 1/8"=1'-0"



2 EAST ELEVATION - BLDG. 2
SCALE 1/8"=1'-0"

Building 3

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ACCUSHARP BUILDING 2

DOWNING LANE,
LEANDER TX 78641

BUILDING 2 EXTERIOR ELEVATIONS

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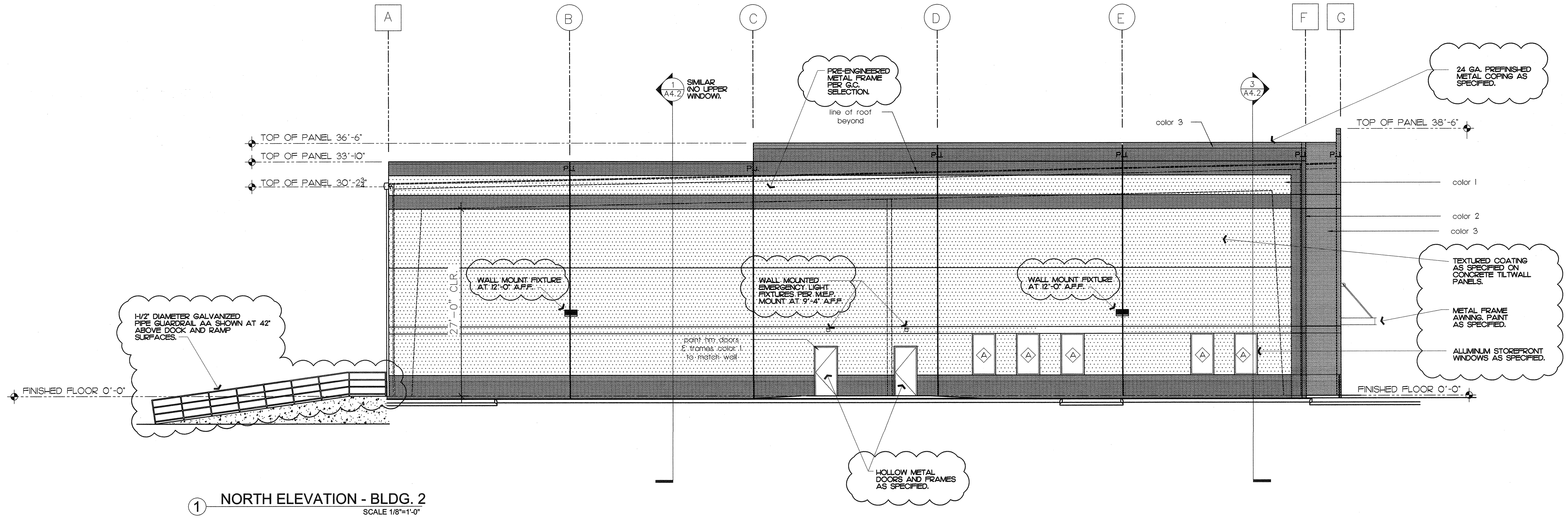
10.6.20

DATE: 10-6-20

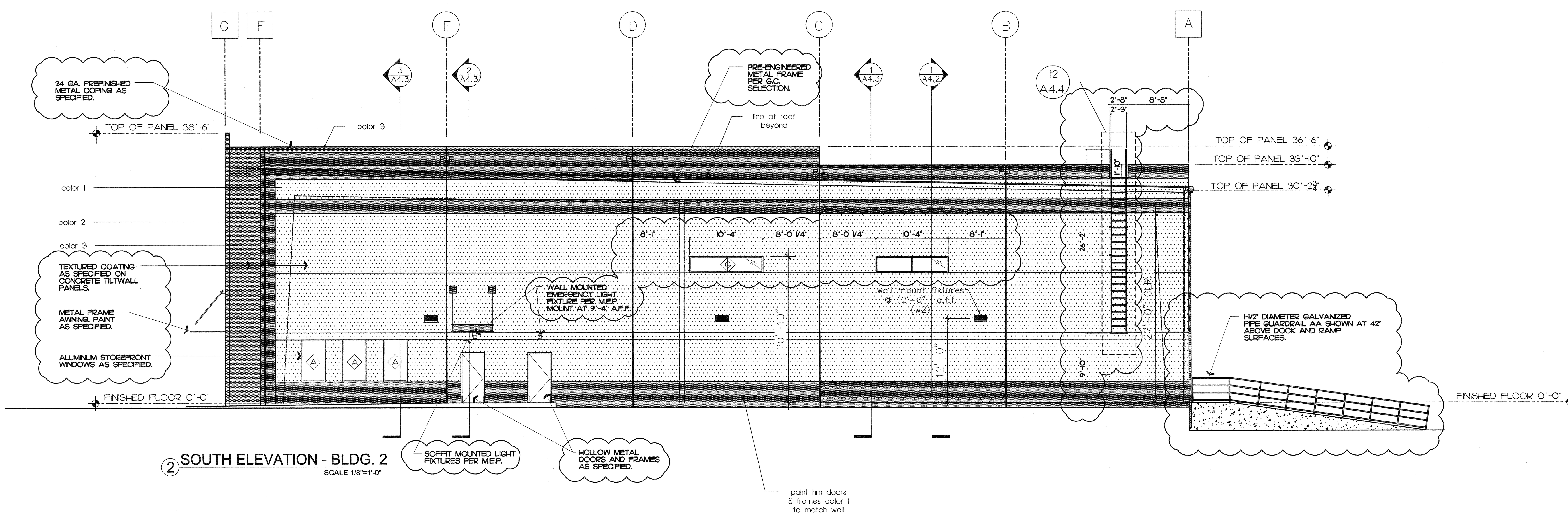
SHEET NUMBER

A3.2



1 NORTH ELEVATION - BLDG. 2
SCALE 1/8"=1'-0"

Building 3



2 SOUTH ELEVATION - BLDG. 2
SCALE 1/8"=1'-0"

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REGISTERED ARCHITECT
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13617
STATE OF TEXAS

10·6·20

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ACCUSHARP BUILDING 2

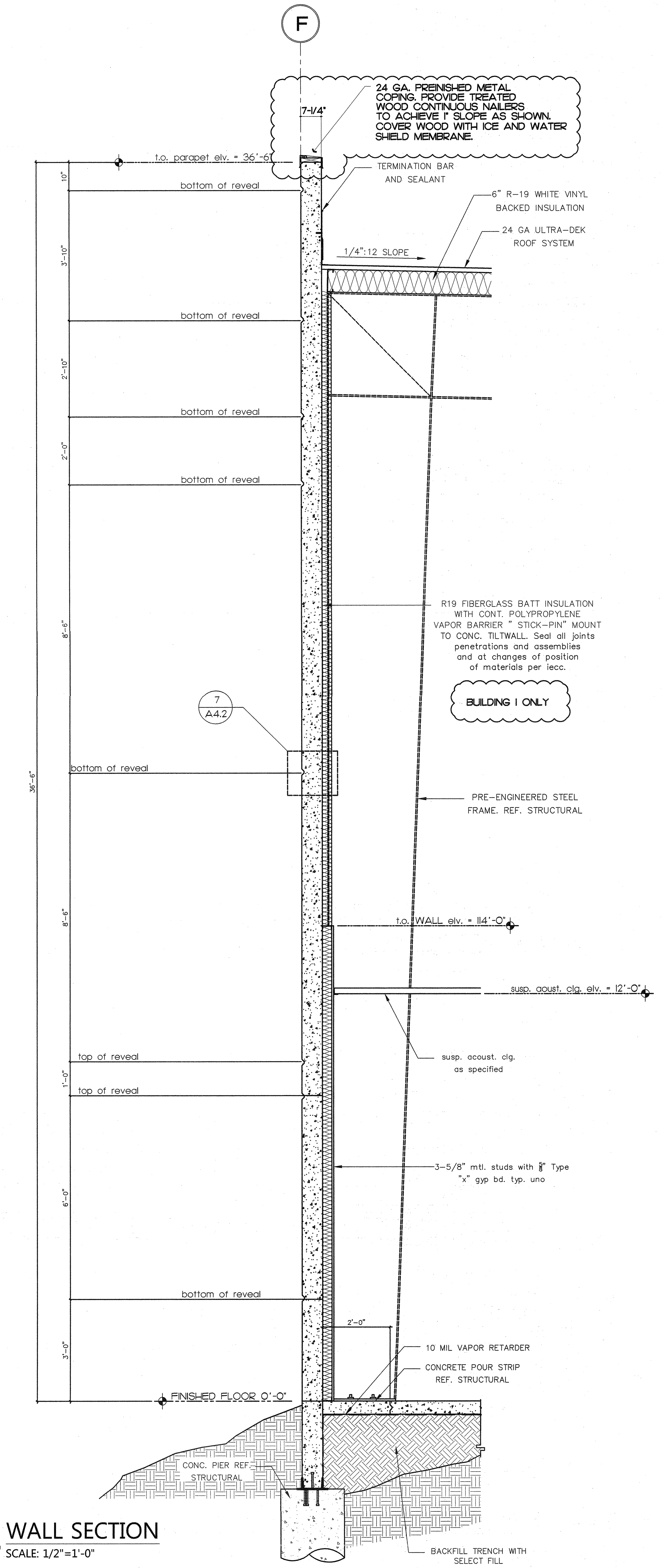
DOWNING LANE,
LEANDER TX 78641

BUILDING 2 EXTERIOR ELEVATIONS

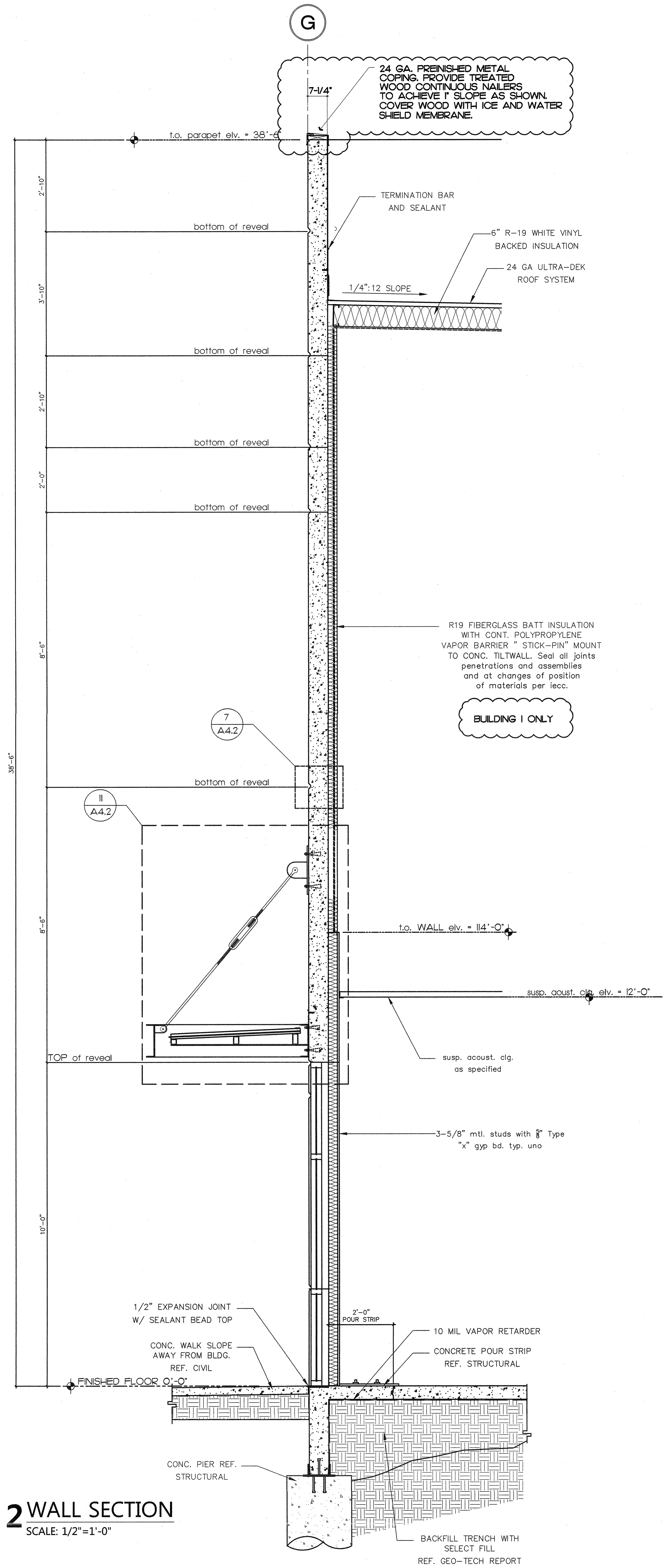
DATE: 10-6-20

SHEET NUMBER

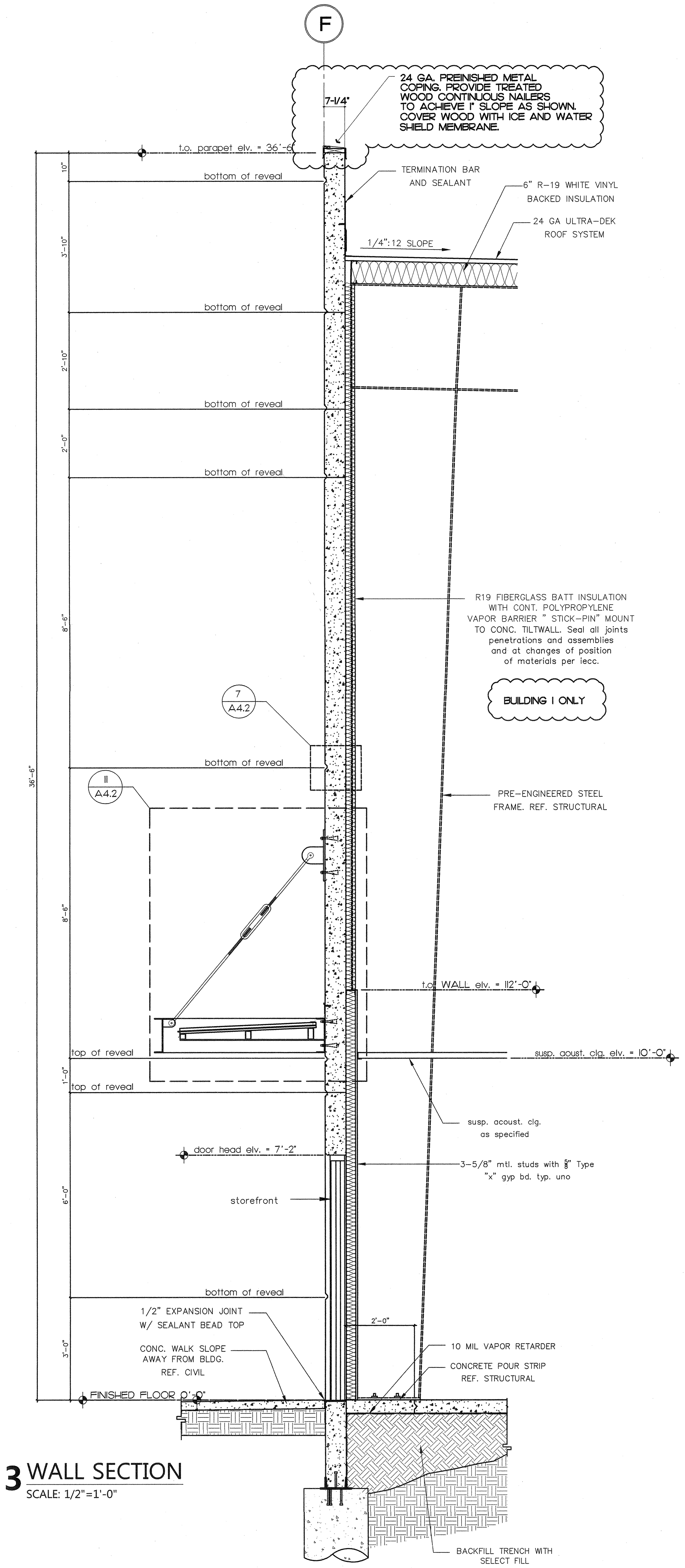
A3.3



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



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



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

DISREGARD ALL INTERIOR FINISH OUT INFORMATION ON THIS SHEET FOR BUILDING 2.
BUILDING 2 IS SHELL CONSTRUCTION ONLY.

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10-6-20

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ACCUSHARP BUILDINGS 1 & 2

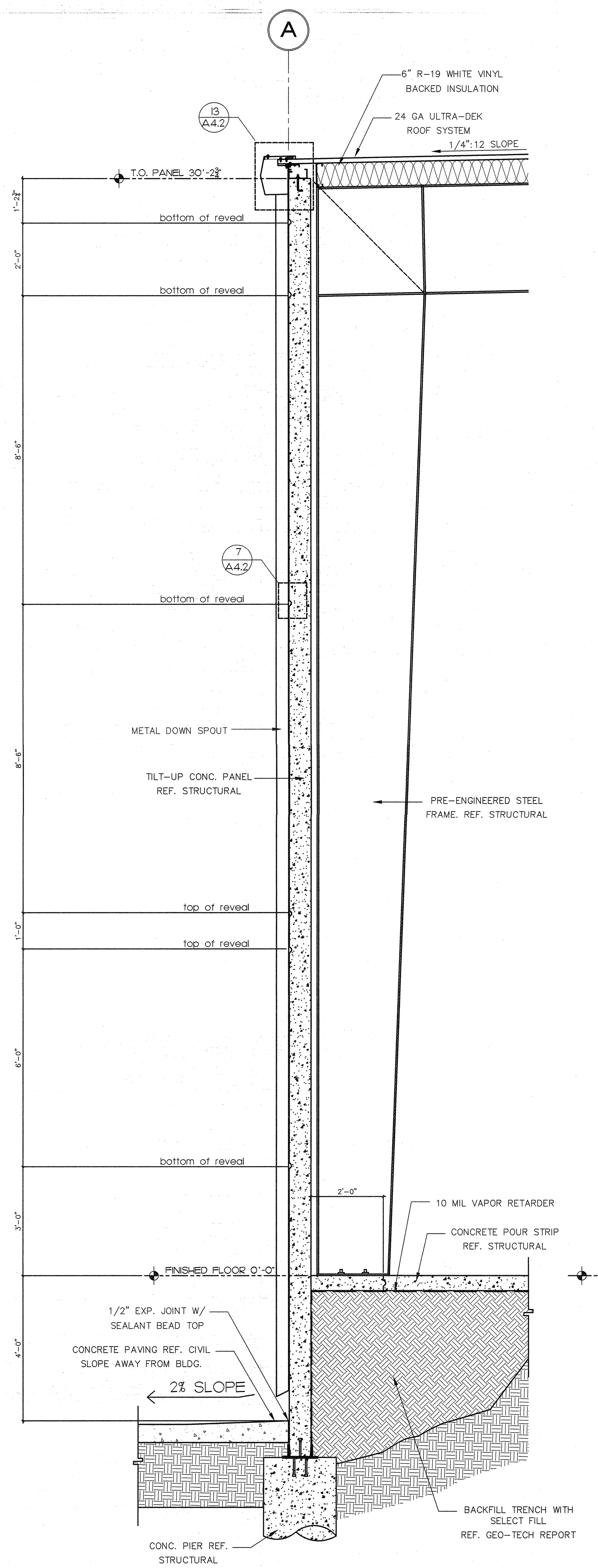
DOWNING LANE,
LEANDER TX 78641

WALL SECTIONS

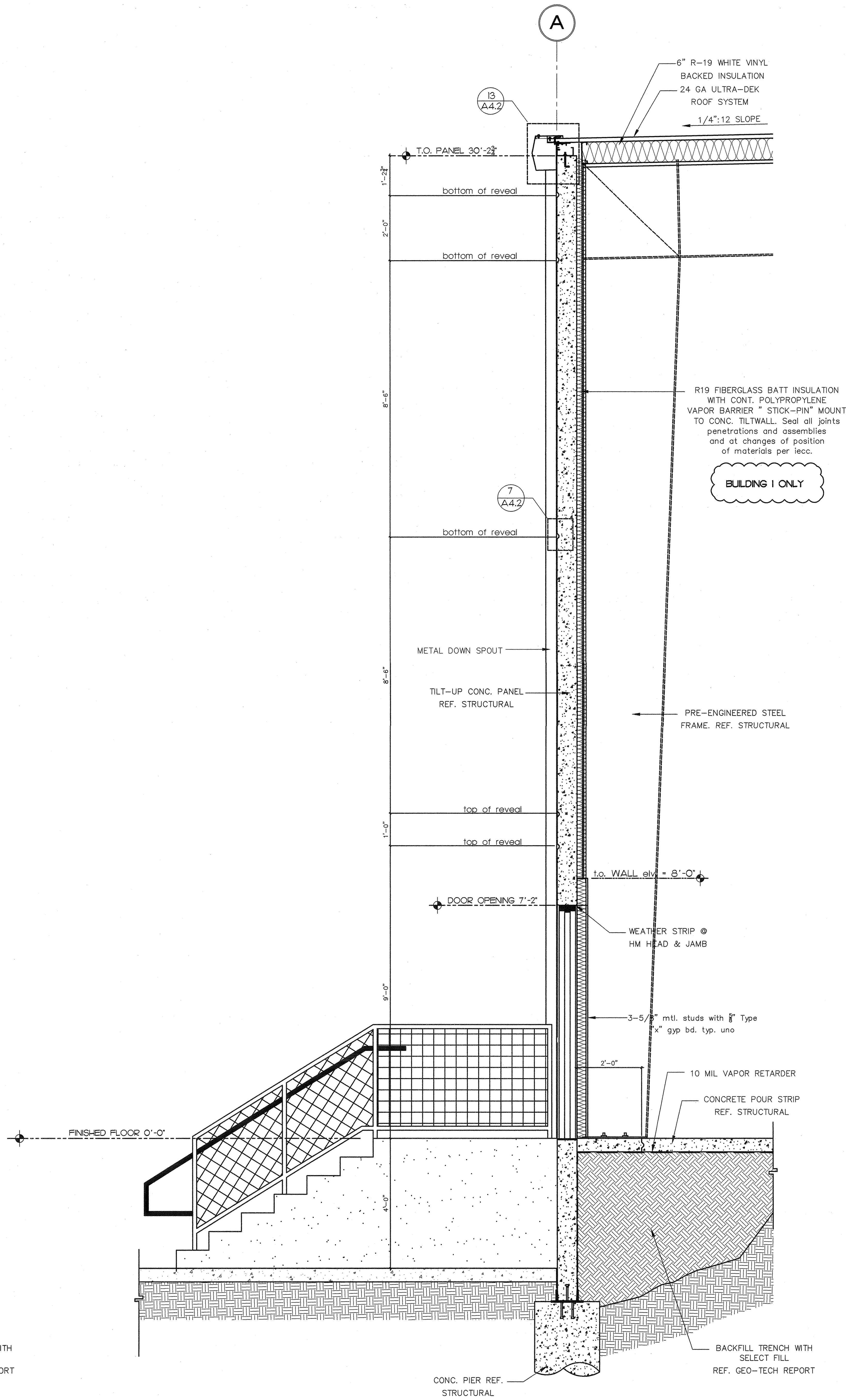
DATE: 10-6-20

SHEET NUMBER

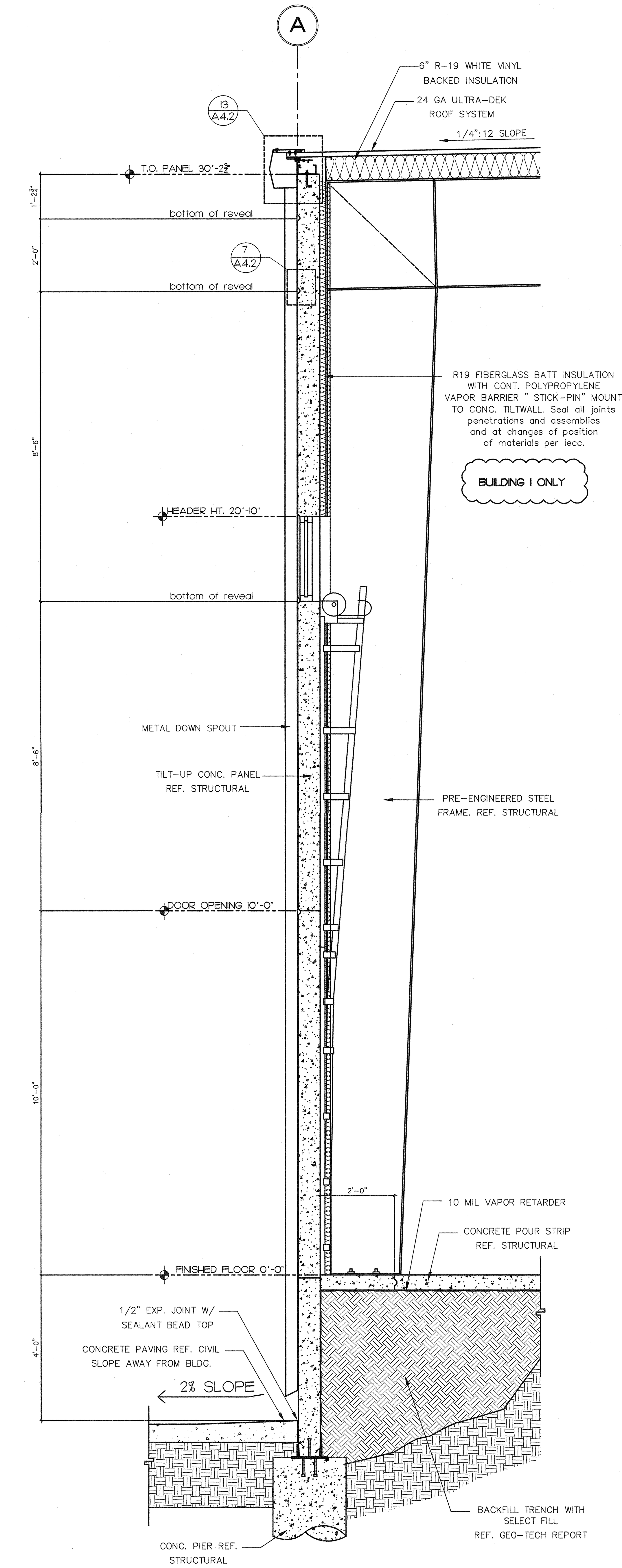
A4.0



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



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



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

DISREGARD ALL INTERIOR FINISH OUT INFORMATION ON THIS SHEET FOR BUILDING 2.
BUILDING 2 IS SHELL CONSTRUCTION ONLY.

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REGISTERED ARCHITECT
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[illegible]

10.6.20

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ACCUSHARP BUILDINGS 1 & 2

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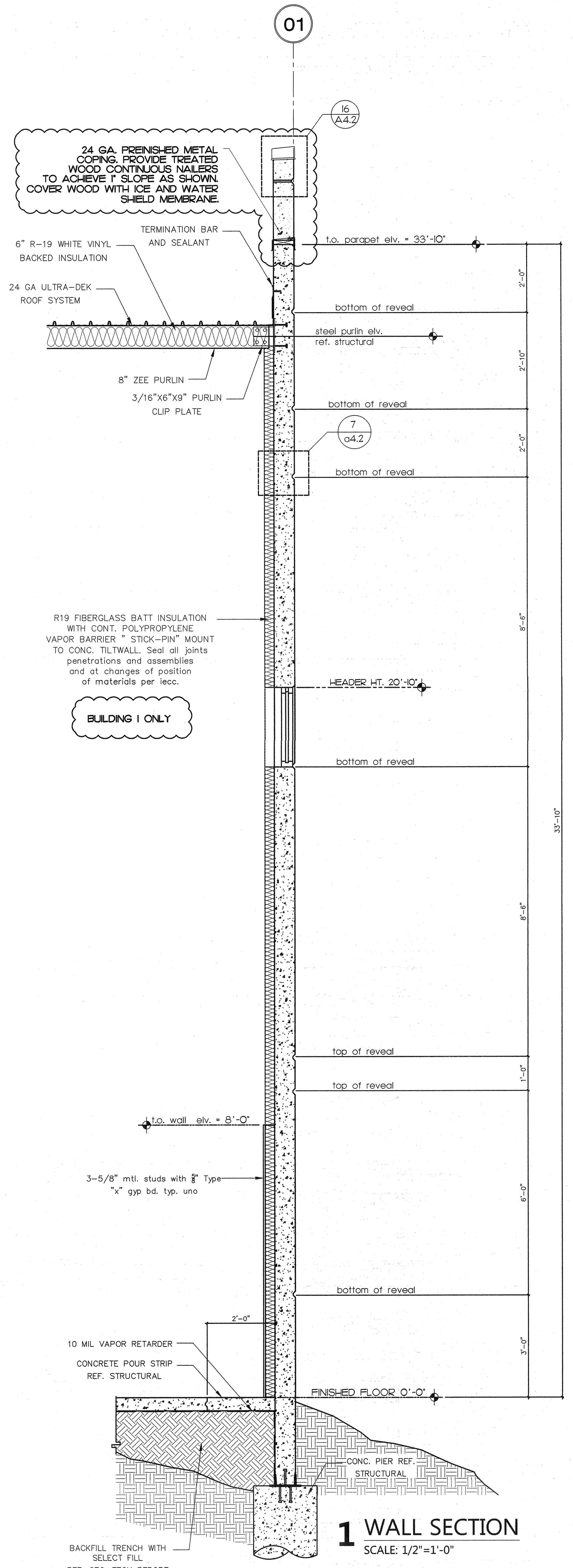
LEANDER TX 78641

WALL SECTIONS

DATE: 10-6-20

SHEET NUMBER

A4.1



1 WALL SECTION
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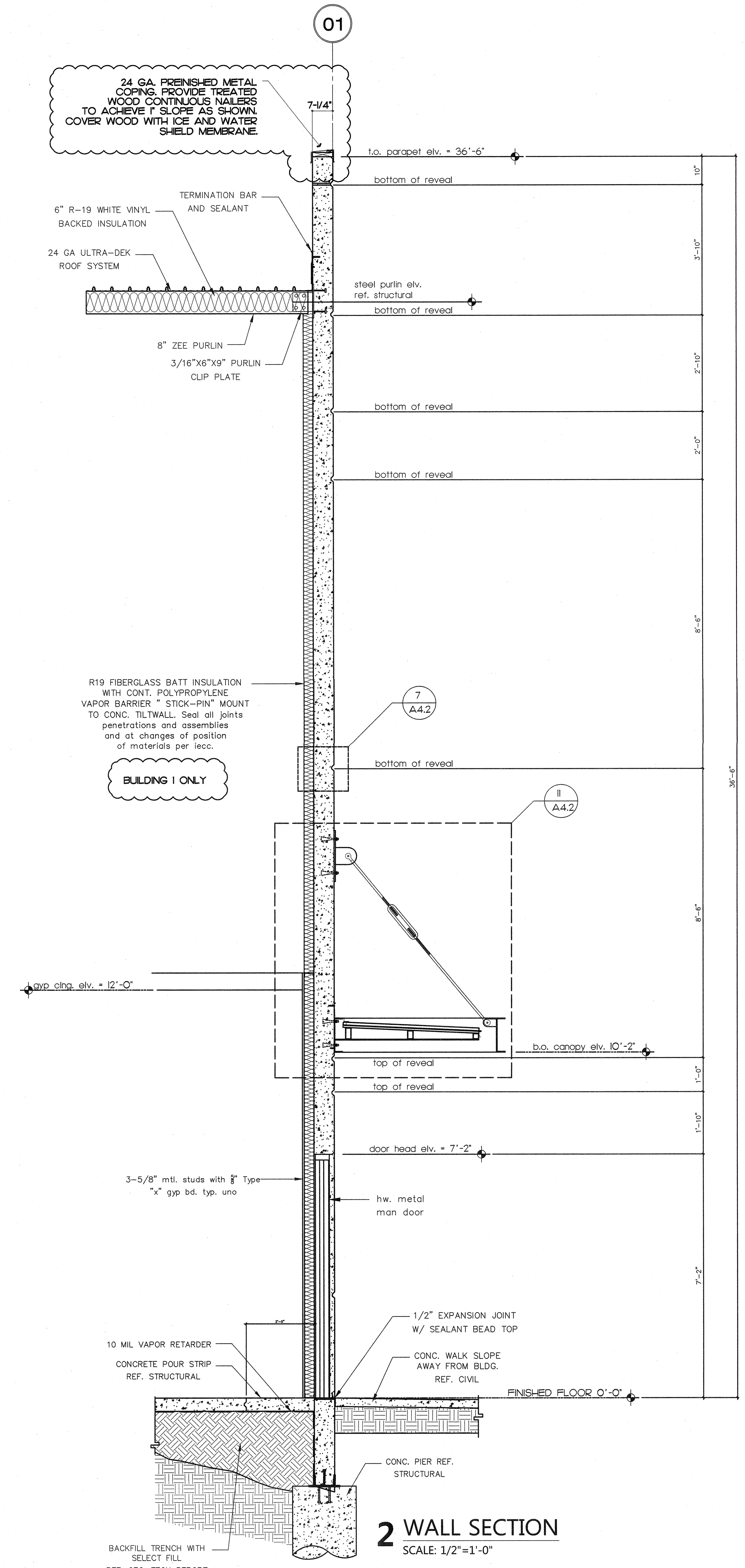
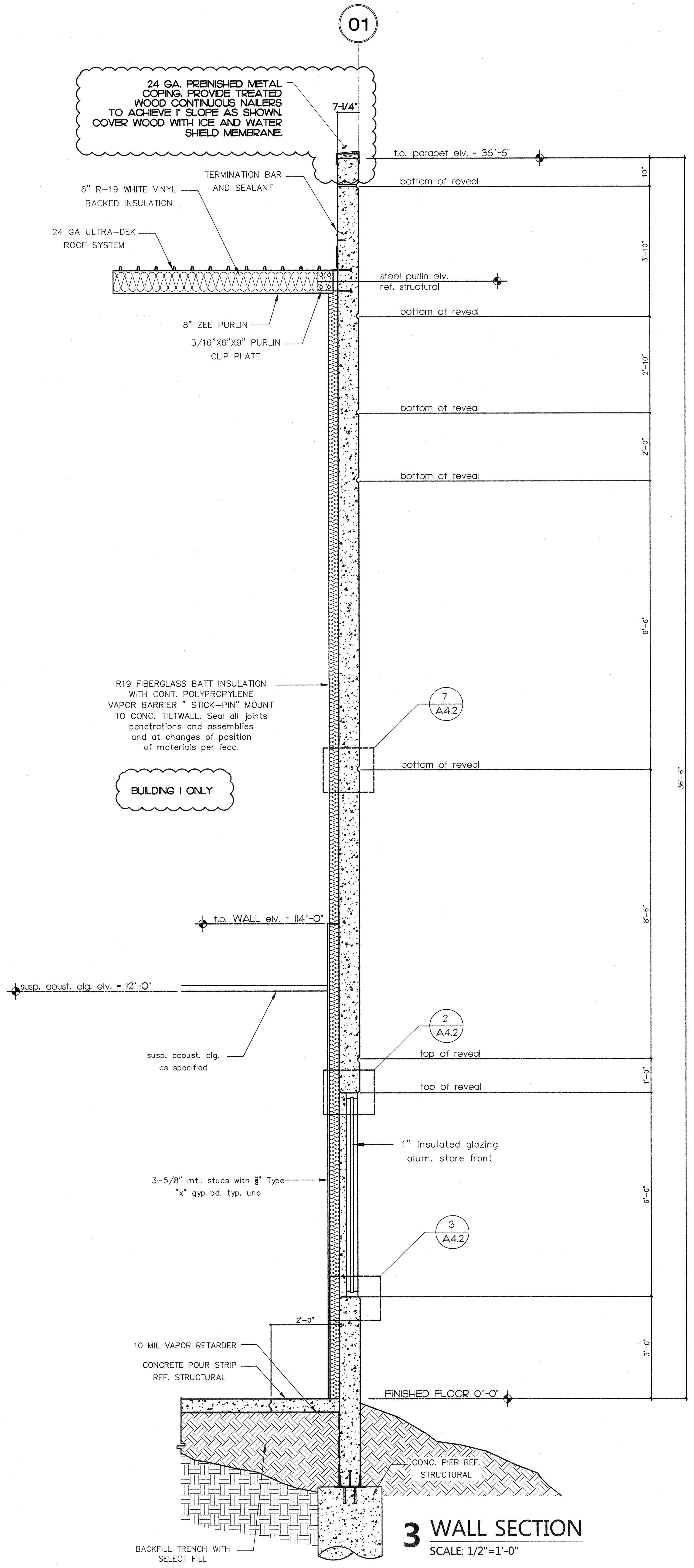


2 WALL SECTION
SCALE: 1/2"=1'-0"



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

DISREGARD ALL INTERIOR FINISH OUT INFORMATION ON THIS SHEET FOR BUILDING 2.
BUILDING 2 IS SHELL CONSTRUCTION ONLY.

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REGISTERED ARCHITECT · RICHARD CANALES · 13817 · STATE OF TEXAS

10-6-20

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ACCUSHARP BUILDINGS 1 & 2

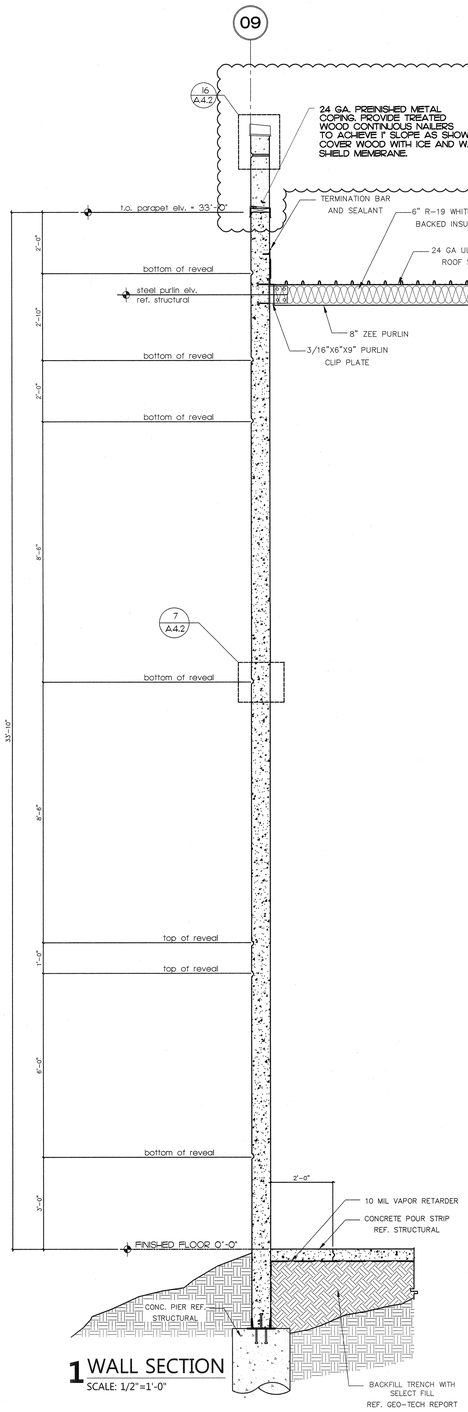
DOWNING LANE,
LEANDER TX 78641

WALL SECTIONS

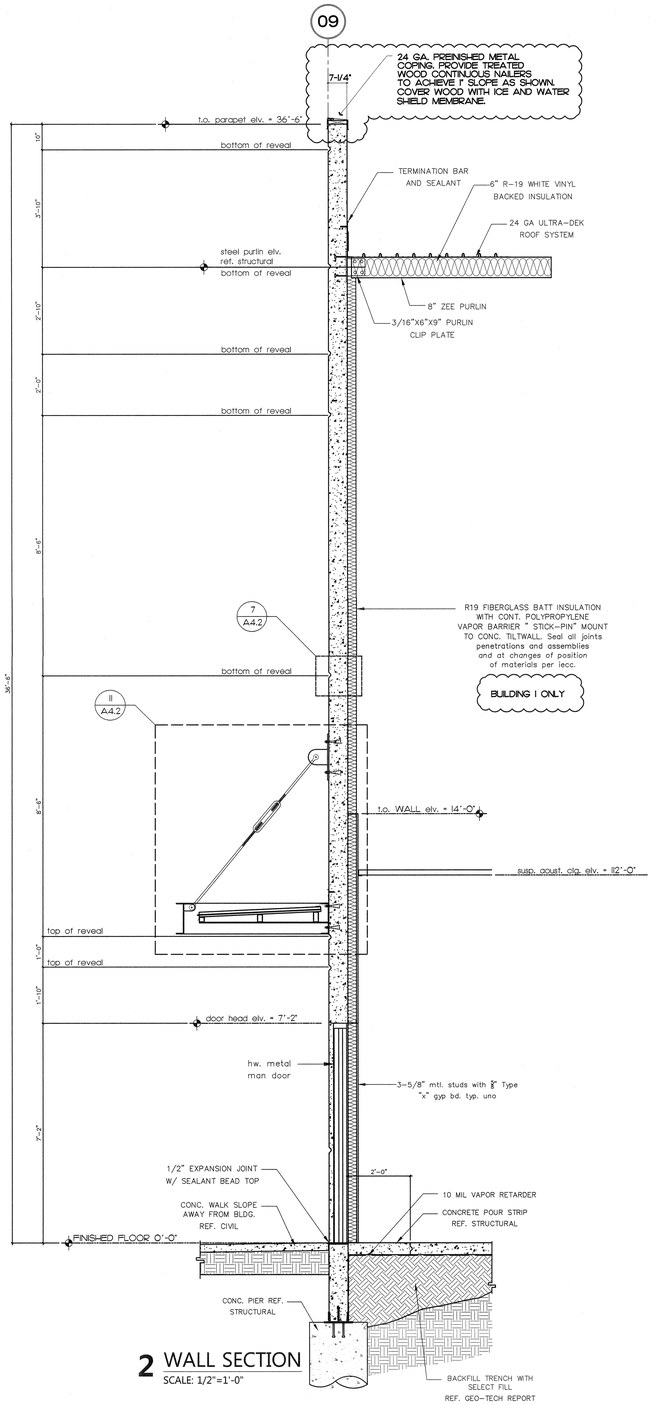
DATE: 10-6-20

SHEET NUMBER

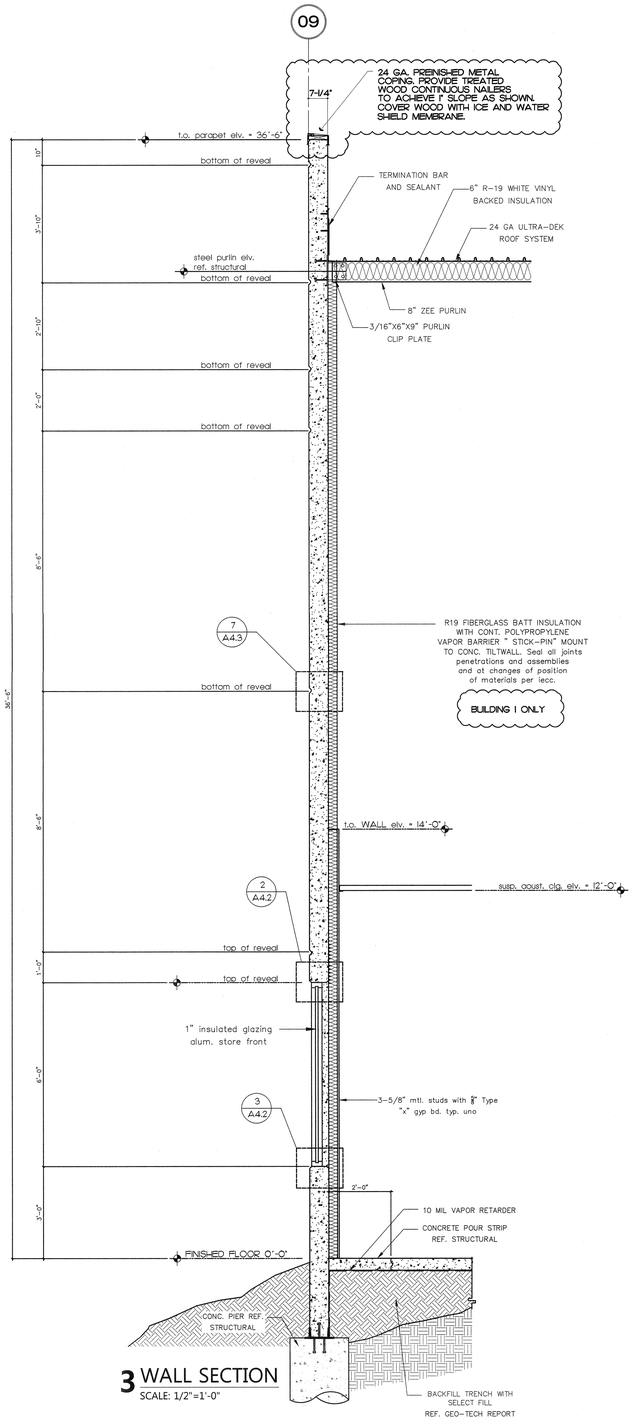
A4.2



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



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



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

DISREGARD ALL INTERIOR FINISH OUT INFORMATION ON THIS SHEET FOR BUILDING 2. BUILDING 2 IS SHELL CONSTRUCTION ONLY.

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REGISTERED ARCHITECT RICK CANALES 13817 STATE OF TEXAS

10.6.20

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ACCUSHARP BUILDINGS 1 & 2

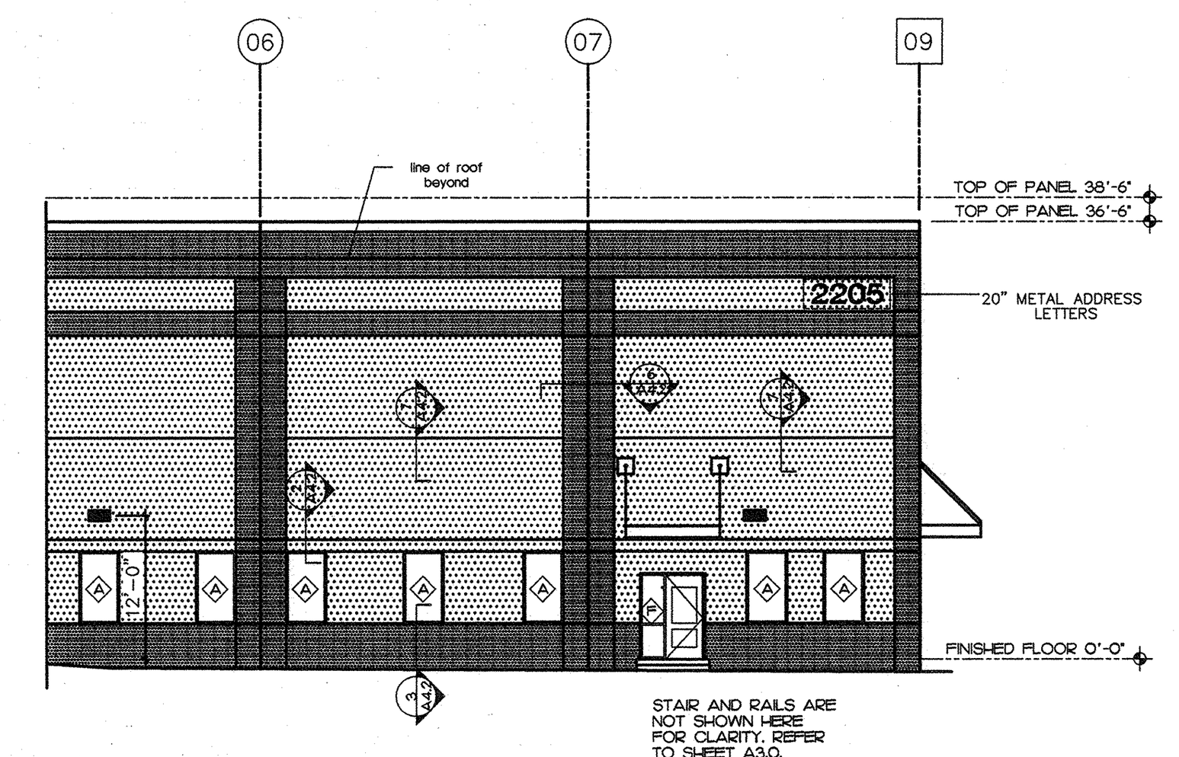
DOWNING LANE,
LEANDER TX 78641

WALL SECTIONS

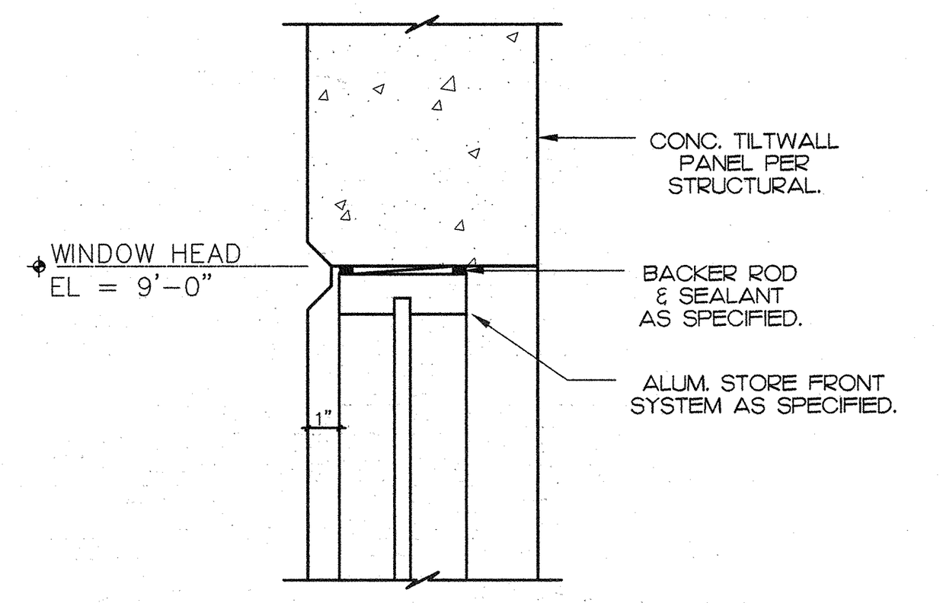
DATE: 10-6-20

SHEET NUMBER

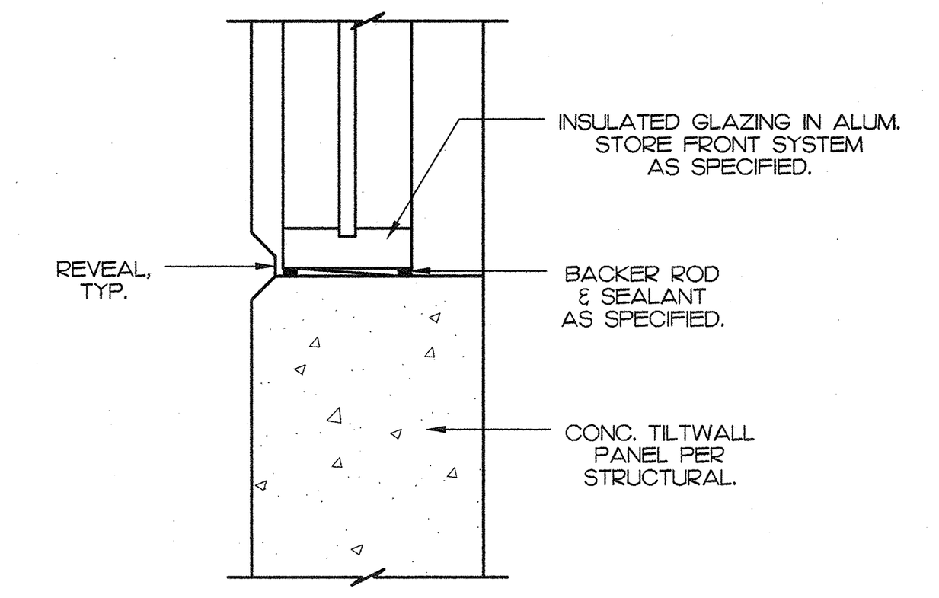
A4.3



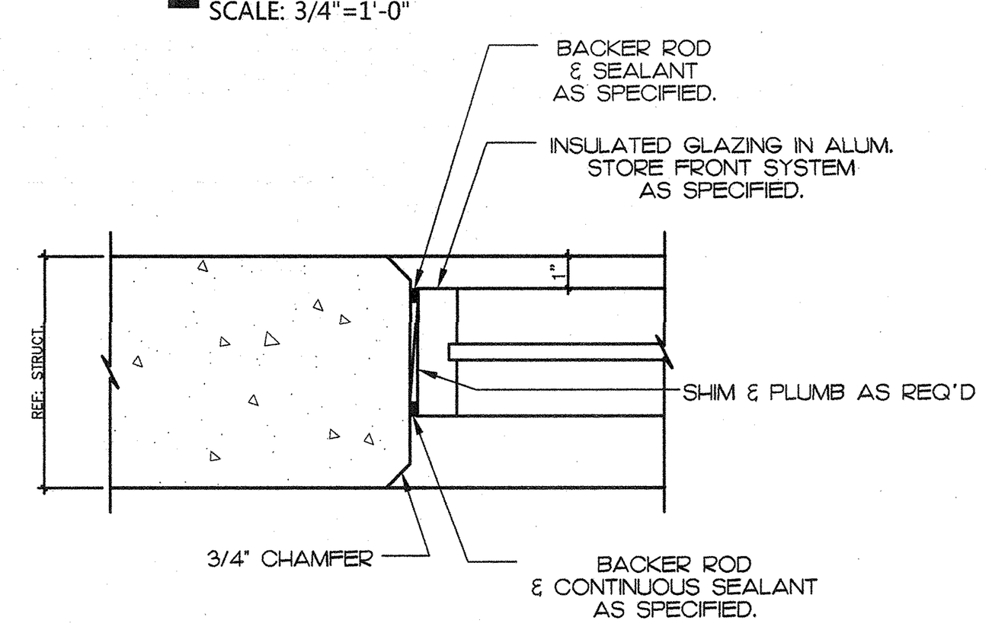
1 BUILDING ELEVATION W/ REVEAL KEYS



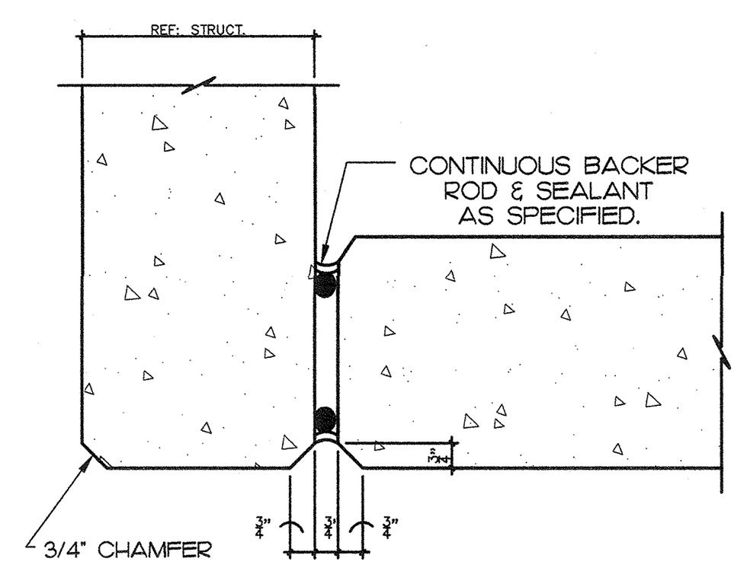
2 HEAD DETAIL
SCALE: 3/4"=1'-0"



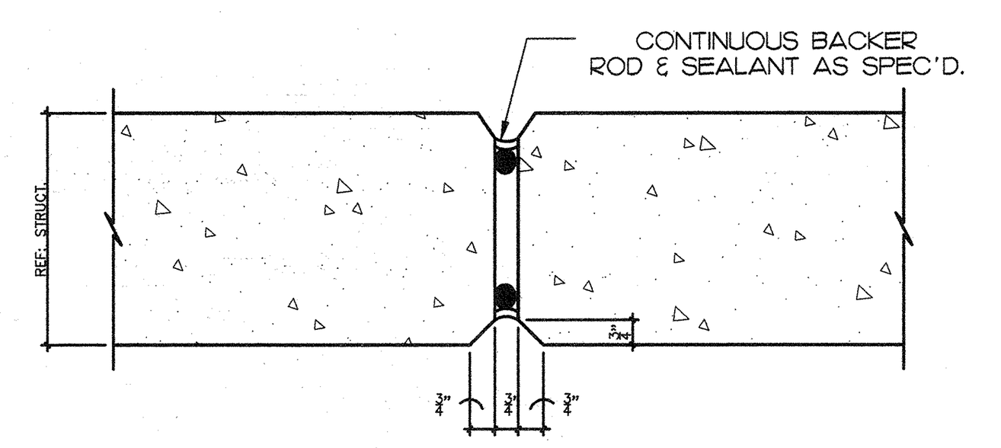
3 WINDOW SILL DETAIL
SCALE: 3/4"=1'-0"



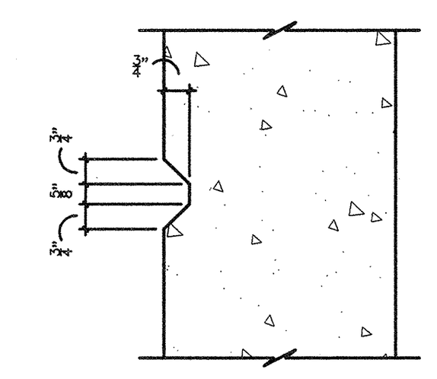
4 WINDOW HEAD/ JAMB
SCALE: 3/4"=1'-0"



5 CORNER DETAIL
SCALE: 3/4"=1'-0"

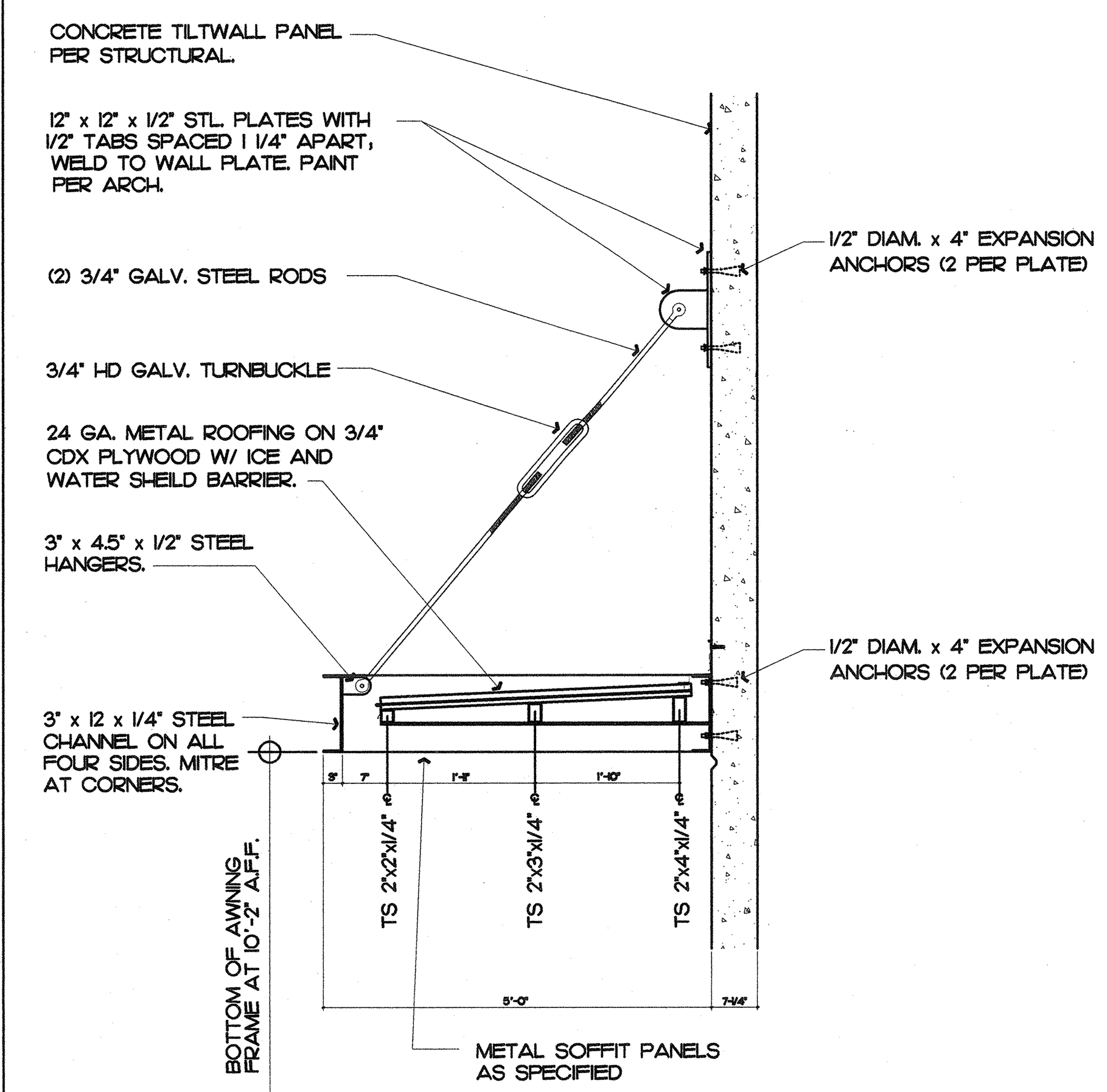


6 PANEL JOINT
SCALE: 3/4"=1'-0"

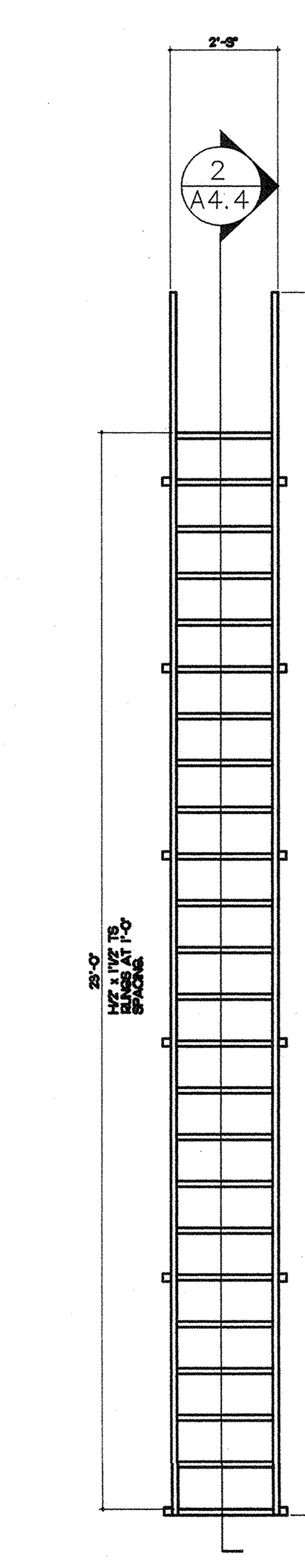


7 TYPICAL REVEAL
SCALE: 3/4"=1'-0"

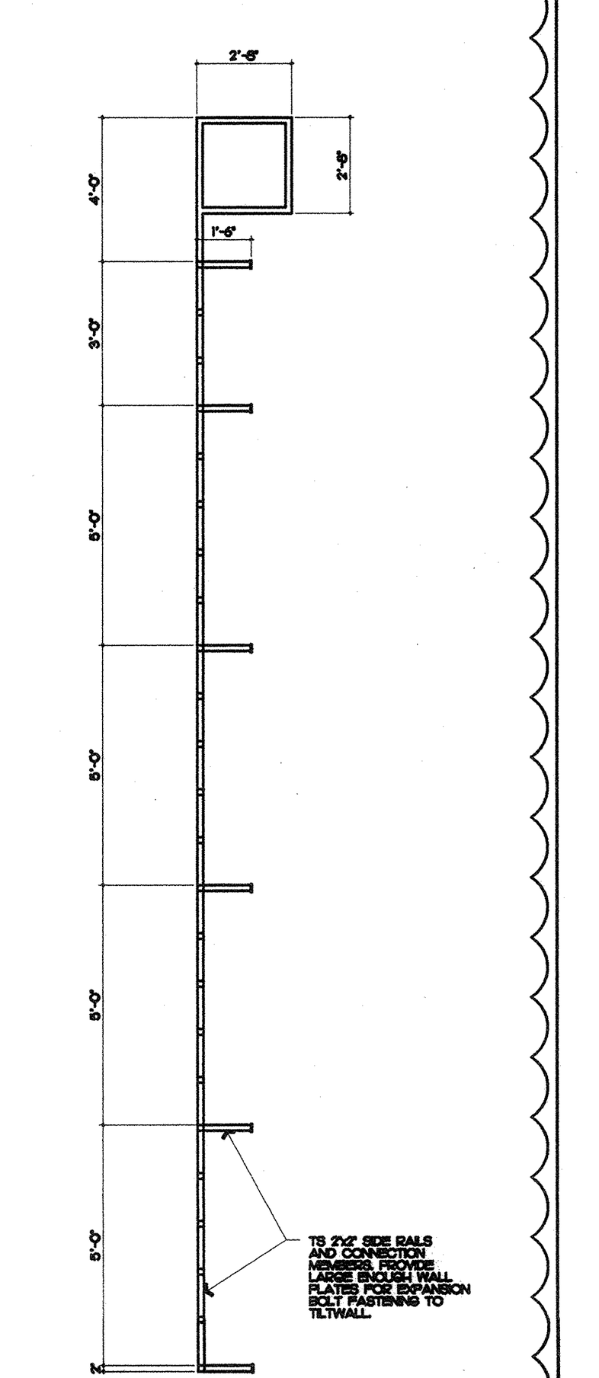
TILTWALL DETAILS



11 AWNING CROSS-SECTION

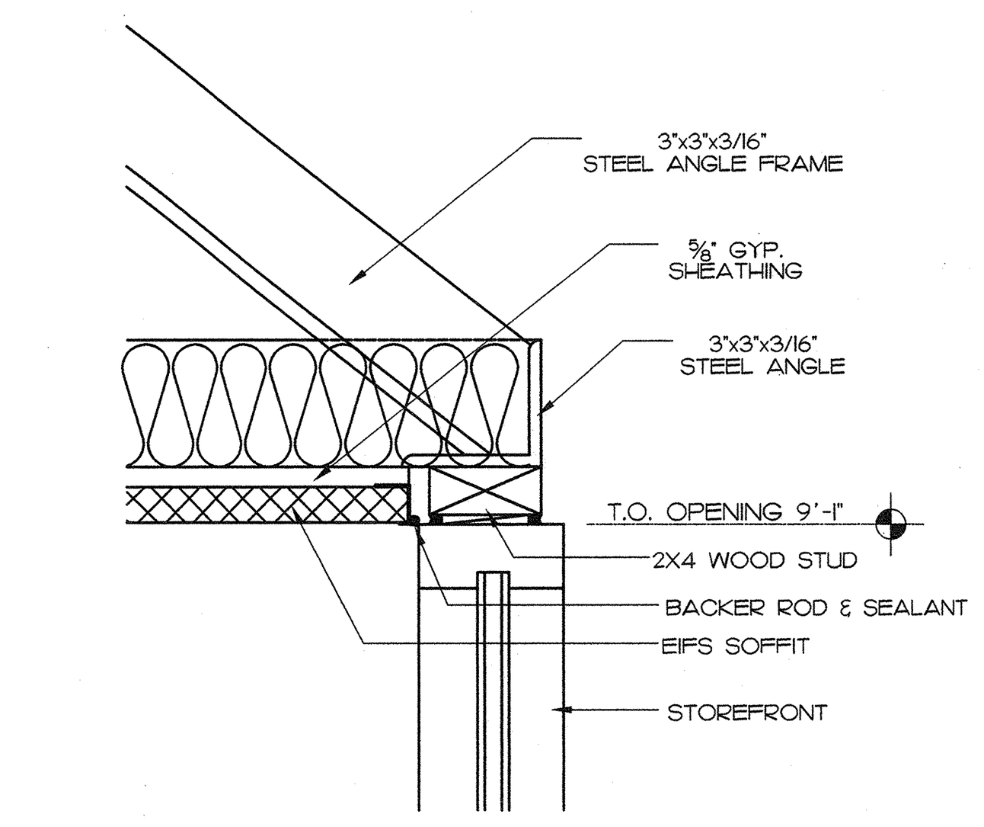


1 ACCESS LATTER

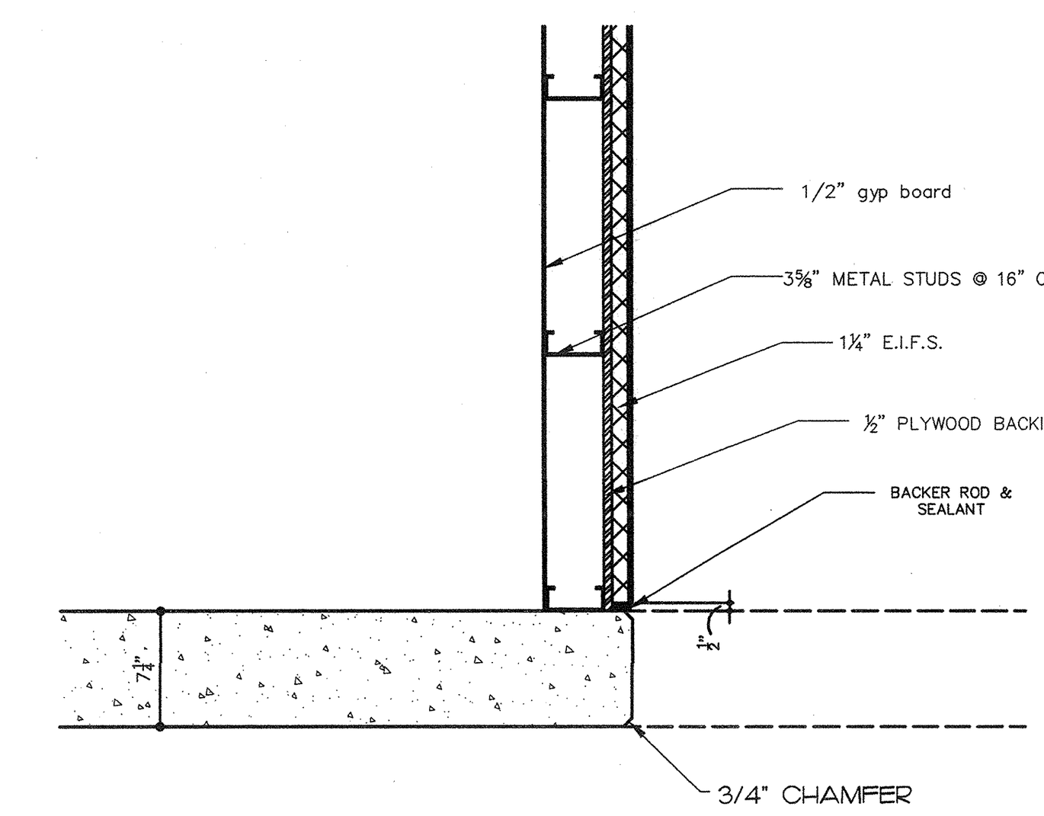


2 CROSS SECTION

12 LADDER SECTION



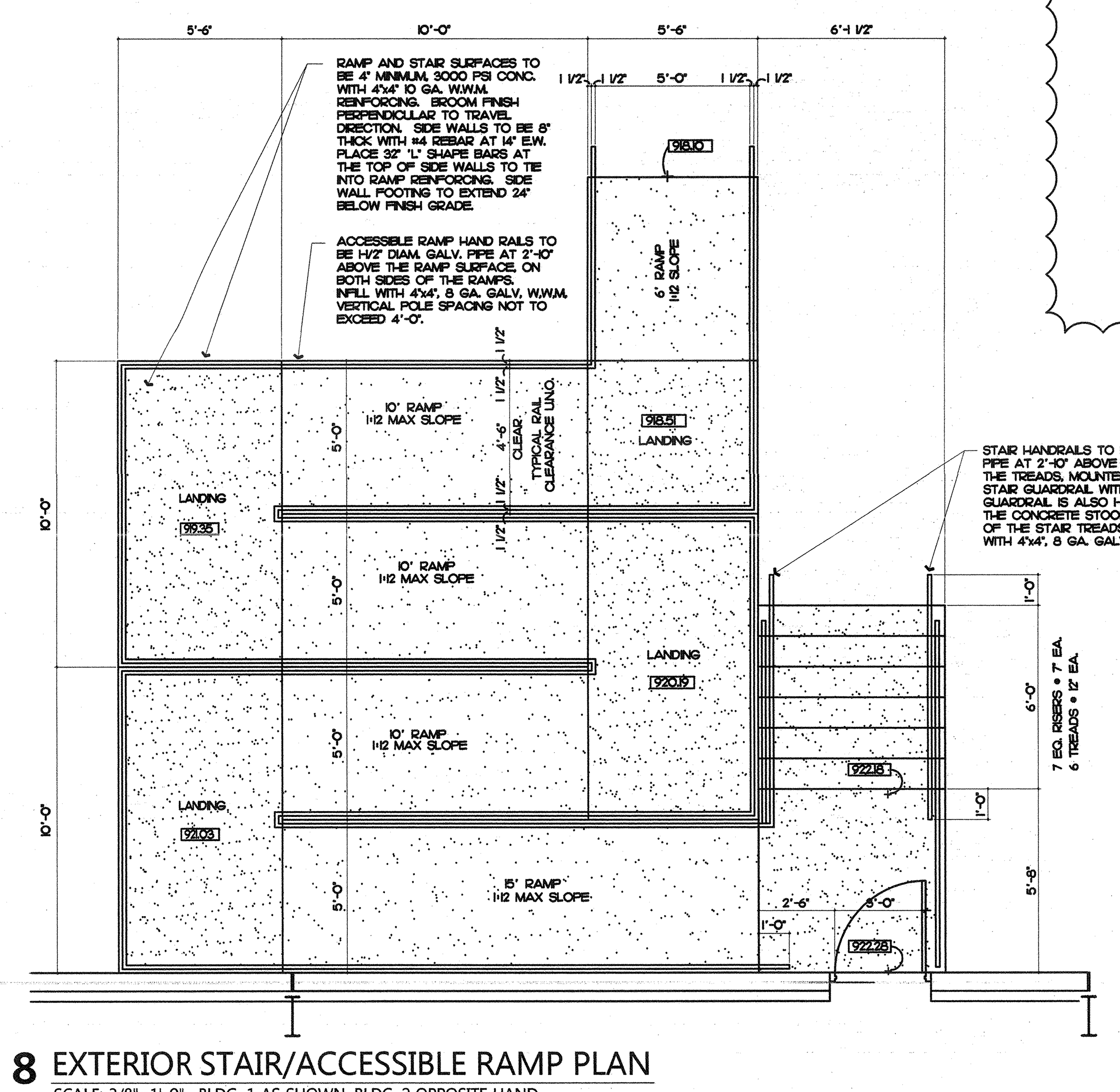
14 STORE FRONT DETAIL
SCALE: 3/4" =1'-0"



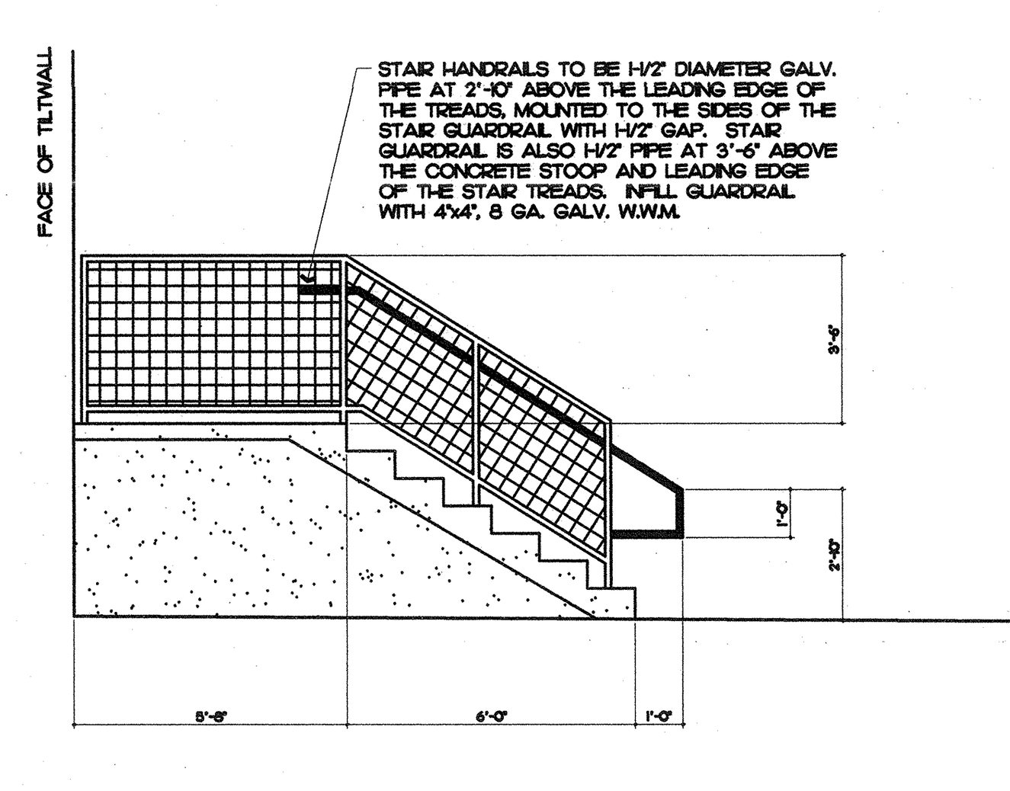
15 STORE FRONT DETAIL
SCALE: 3/4" =1'-0"

10 NOT USED

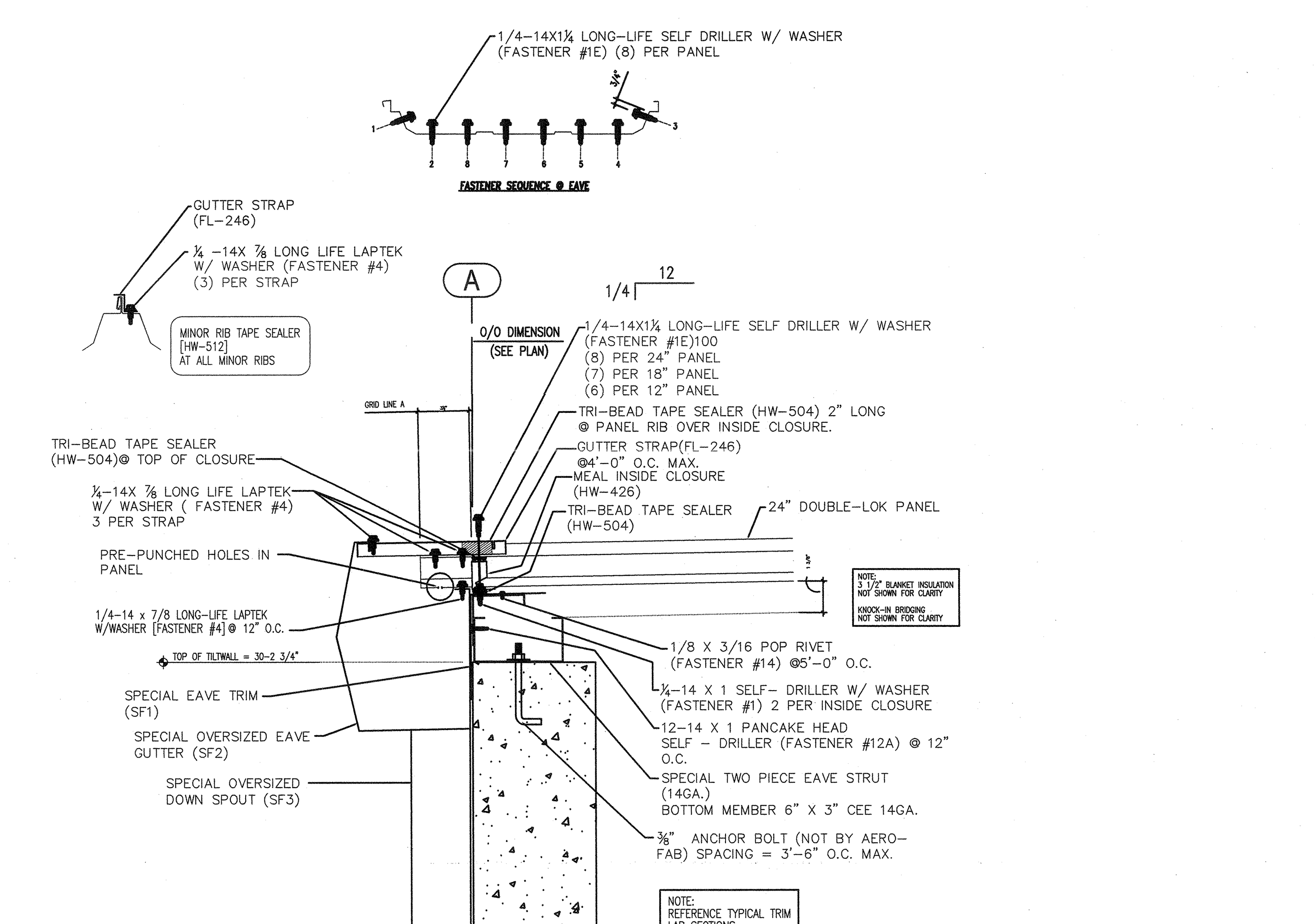
THIS SEAL ONLY APPLIES TO THE ITEMS THAT ARE CLOUDED ON THIS SHEET. ALL OTHER WORK WAS ORIGINATED BY A PREVIOUS CONSULTANT.



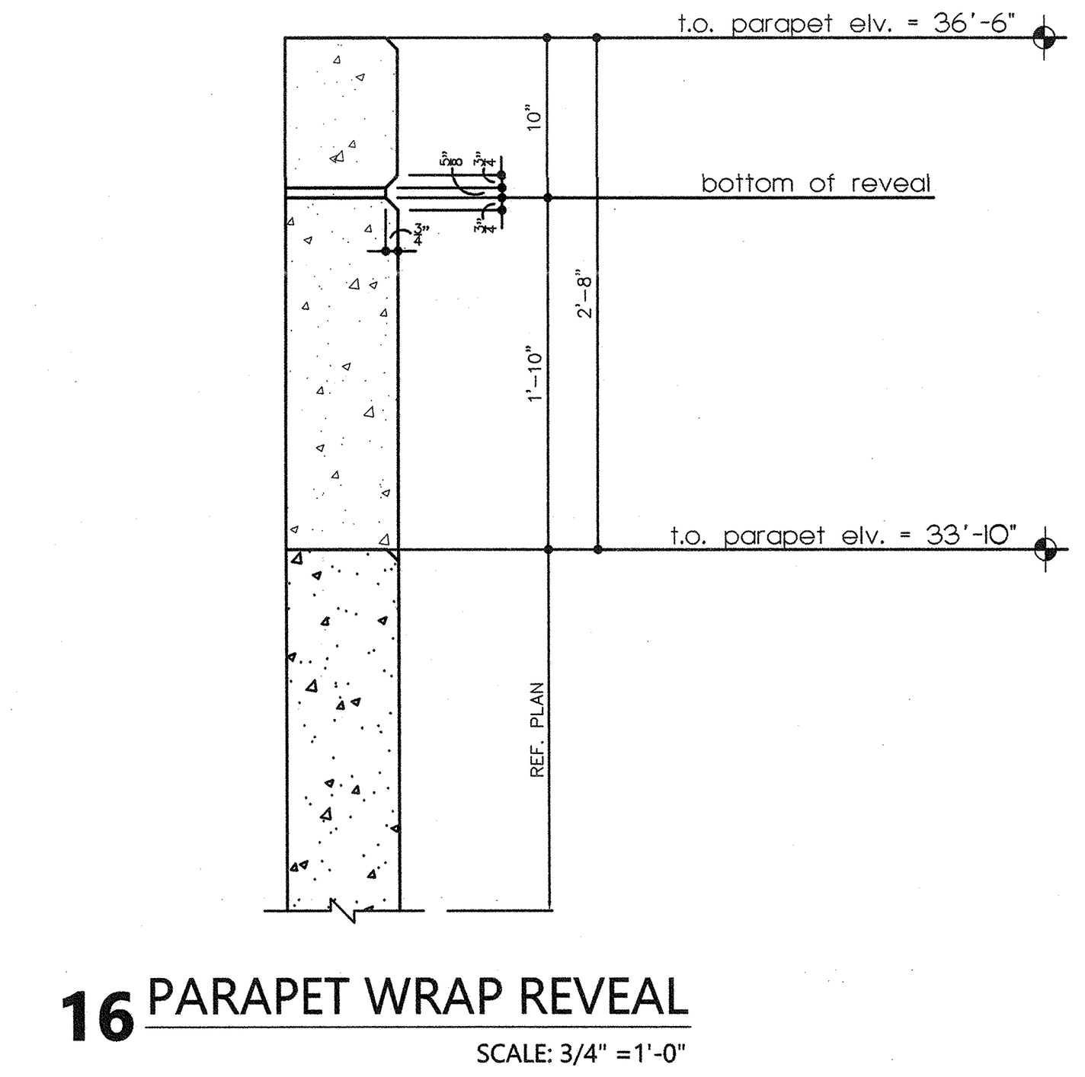
8 EXTERIOR STAIR/ACCESSIBLE RAMP PLAN
SCALE: 3/8"=1'-0" BLDG. 1 AS SHOWN, BLDG. 2 OPPOSITE HAND
REFER TO SHT. A 2.3 FOR BLDG. 2 SPOT GRADES.



9 CONC. STAIR SIDE ELEVATION
SCALE: 3/8"=1'-0 BLDG. 1 AS SHOWN, BLDG. 2 OPPOSITE HAND.



13 EAVE GUTTER DETAIL



16 PARAPET WRAP REVEAL
SCALE: 3/4" =1'-0"

WORKMAN

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ACCUSHARP
2205 DOWNING LANE
LEANDER, TEXAS 78641

ACCUSHARP BUILDINGS 1 & 2

DOWNING LANE,
LEANDER TX 78641

MISC. DETAILS

DATE: 10-6-20

SHEET NUMBER

A4.4

DOOR SCHEDULE

MARK	DOOR WIDTH	DOOR HEIGHT	DOOR THICK	DOOR MATERIAL	DOOR TYPE	FRAME MATERIAL	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	FIRE RATING	HARDWARE SET	REMARKS
100A	3'-0"	7'-0"	1-3/4"	HM	3	ALUM.	HM	-	-	-	DS, LS, DB, C, T, W	
100B	3'-0"	8'-0"	1-3/4"	SC WOOD	1	"	-	-	-	-	DS, LS	
101A	"	"	"	"	"	"	-	-	-	-	DS, PS	
101B	2'-0"	8'-0""	1-3/4"	SC WOOD	1B	"	-	-	-	-	PS	
102	"	"	"	"	"	"	-	-	-	-	PRV, DS,	
103	3'-0"	7'-0"	"	ALUM/ GLASS	6	"	HM	-	-	-	PP	
104	NOT USED	-	-	-	-	-	-	-	-	-		
105	3'-0"	8'-0"	1-3/4"	SC WOOD	1	ALUM.	-	-	-	-	PS, DS	
106A	"	"	"	"	1	"					PS, DS	
106B	"	"	"	"	1	"	-	-	-	-	PS, DS	
107A	"	"	"	"	1	ALUM.	-	-	-	-	PS, DS	
107B	"	"	"	"	1	"	-	-	-	-	PS, DS	
108	NOT USED	-	-	-	-	"	-	-	-	-		
109	NOT USED	-	-	-	-	-	-	-	-	-		
110	3'-0"	8'-0"	1-3/4"	SC WOOD	1	ALUM.	-	-	-	-	DS, LS	
111	"	"	"	"	"	"	-	-	-	-	"	
112	"	"	"	"	"	"	-	-	-	-	"	
113	"	"	"	"	"	"	-	-	-		"	
114A	3'-0"	7'-0"	1-3/4"	HM	3	ALUM.	HM	-	-	1 HR.	DS, PS	
114B	"	"	"	"	"	"	-	-	-	1 HR.	DS, PS	
115	3'-0"	8'-0"	1-3/4"	SC WOOD	1	ALUM.	-	-	-	-	DS, LS,	
116	"	"	"	"	"	-	-	-	-	-	"	
117	"	"	"	"	"						DS, PP, KP	
118	"	"	"	"	"	-	-	-	-	-	"	
119	"	"	"	"	"	-	-	-	-	-	DS, LS,	
120	"	"	"	"	"	-	-	-	-	-	DS, LS,	
121	3'-0"	7'-0"	1-3/4"	HM	3	ALUM.	HM	-	-	1 HR	DS, C,PP, KP	
122	"	"	"	"	"	"	-	-	-	1 HR	DS, C,PP, KP	
123	NOT USED	-	-	-	5	-	-	-	-	-		
124	NOT USED	-	-	-	-	-	-	-	-	-		
125	3'-0"	8'-0"	1-3/4"	SC WOOD	1	ALUM.	-	-	-	-	DS, PS	
126	"	"	"	"	1	"	-	-	-	-	DS, PRV, C	
127	"	"	"	"	1	"	-	-	-	-	DS, PS	
128	6'-0"	7'-0"	-	ALUMN/ GLASS	7	"	-	-	-	-	C, T, W, DB, PP	
129A	3'-0"	7'-0"	1-3/4"	HM	2	"	-	-	-	1HR.	DS, PS, C,	
129B	"	"	"	"	"	"	-	-	-	1HR.	DS, PS, C,	
130	"	"	"	"	3	"	-	-	-	-	LS, PH, C, W, CR	
131	"	"	"	"	3	"	-	-	-	1HR.	LS, W, T	
132	3'-0"	8'-0"	1-3/4"	SC WOOD	1	-	-	-	-	-	LS, DS	
133A	10'-0"	10'-0"	-	MTL.	8	-	-	-	-	-	VERTICAL LIFT	
133B	"	"	"	"	"	-	-	-	-	-	VERTICAL LIFT	
133C	3'-0"	7'-0"	1-3/4"	HM	3	-	HM	-	-	-	LS, PH, C, T, W	
134A	3'-0"	7'-0"	1-3/4"	HM	3	"	HM	-	-	-	LS, DS	
134B	10'-0"	10'-0"	"	METAL	9	"	-	-	-	-	COILING	
134C	"	"	"	"	11	"	-	-	-	-	VERTICAL LIFT	
134D	"	"	"	"	"	"	-	-	-	-	VERICAL LIFT	
134E	3'-0"	7'-0"	1-3/4"	HM	3	"	HM	-	-	-	DS, PH, T, W, LS,	
134F	14'-0"	16'-0"	-	MTL.	12		-	-	-	-	O.H.D.	
134G	3'-0"	7'-0"	1-3/4"	HM	3	"	HM	-	-	-	DS, PH, T, W, LS,	
135A	14'-0"	16'-0"	-	MTL.	10		-	-	-	-	O.H.D.	
135B	3'-0"	7'-0"	1-3/4"	HM	3	"	HM	-	-	-	DS, PH, T, W, EDL	
135C	12'-0"	14'-0"	-	MTL.	13		-	-	-	-	COILING	
135D	3'-0"	7'-0"	1-3/4"	HM	3	"	HM	-	-	-	DS, LS,	

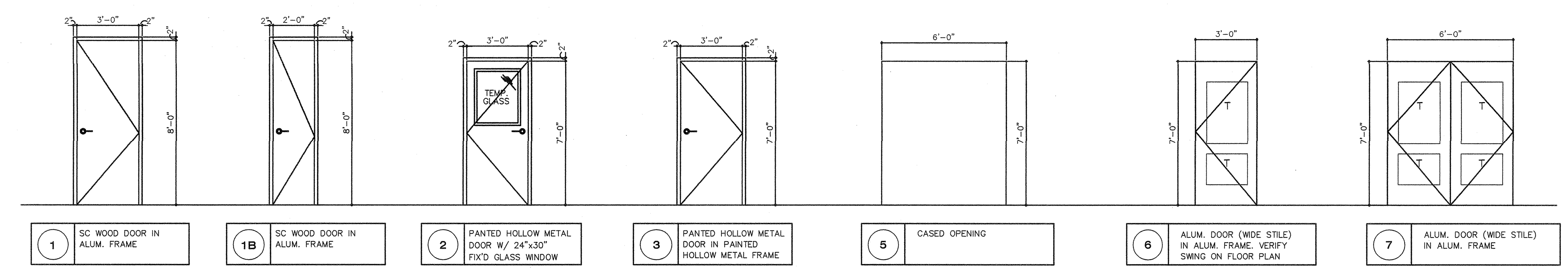
HARDWARE TYPES

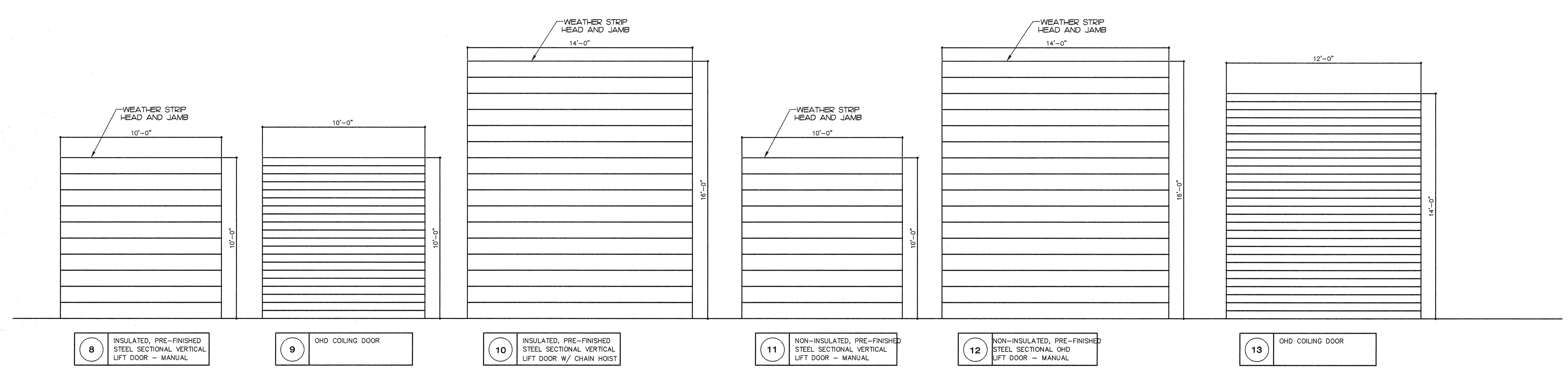
MARK	FUNCTIONS
C	CLOSER
COOR	CORRDINATOR
CR	CARD READER
DB	DEAD BOLT
HB/FB	HEAD BOLT/ FOOT BOLT
LS	LOCK SET (A.D.A. LEVER)
PH	PANIC HARDWARE
PP	PUSH PULL
PRV	PRIVACY SET (A.D.A. LEVER)
PS	PASSAGE SET (A.D.A. LEVER)
T	THERSHOLD
W	WEATHERSTRIPPIING
EDL	ELECTRONIC DOOR LOCK
DS	DOOR STOP
KP	KICK PLATE

DOOR AND FRAME LEGEND

MARK	FUNCTIONS
AL	ALUMINUM
FF	FACTORY FINISH
HM	HOLLOW METAL
MTL.	METAL
PL	PLASTIC LAMINATE
WD	WOOD
T	TEMPERED GLASS

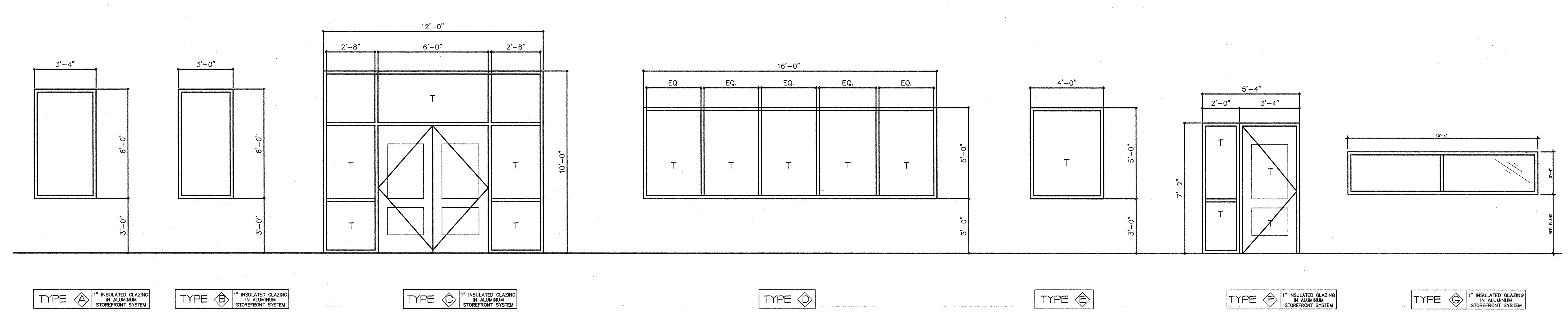
For reference only refer to building 3 to determine door quantities.





WINDOW SCHEDULE

MARK	FRAME TYPE	ROUGH OPENING WIDTH	ROUGH OPENING HEIGHT	SILL HEIGHT	GLAZING	REMARKS
A	ALUM	3'-4"	6'-0"	3'-0"	1"	
B	"	3'-0"	6'-0"	"	"	
C	"	12'-0"	10'-0"	-	"	"T" DENOTES TEMPERED PANES
D	"	16'-0"	5'-0"	3'-0"	"	"T" DENOTES TEMPERED PANES
E	"	4'-0"	5'-0"	"	"	"T" DENOTES TEMPERED PANES
F	"	5'-4"	7'-2"	"	"	"T" DENOTES TEMPERED PANES
G	"	10'-4"	2'-4"	18'-6"	"	



WORKMAN

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ACCUSHARP
2205 DOWNING LANE
LEANDER, TEXAS 78641

ACCUSHARP BUILDING 1

DOWNING LANE,
LEANDER TX 78641

DOOR SCHEDULE /TYPES & WINDOW SCHEDULE

DATE: 10-6-20

SHEET NUMBER

A6.1

SPECIFICATIONS

REFER TO STRUCTURAL DRAWINGS FOR SPECIFICATIONS AND NOTES.
REFER TO DRAWINGS FOR MECHANICAL, ELECTRICAL & PLUMBING SPECIFICATIONS

SECTION 00700 - GENERAL CONDITIONS

A. THE AMERICAN INSTITUTE OF ARCHITECTS STANDARD FORM, AIA DOCUMENT 201, LATEST EDITION, "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" IS HEREBY MADE A PART OF THESE CONSTRUCTION DOCUMENTS. THE GENERAL CONDITIONS APPLY TO EACH AND EVERY SECTION OF THESE SPECIFICATIONS AS WELL AS TO ALL THE WORK REQUIRED TO COMPLETE THIS PROJECT AS THOUGH INCLUDED HEREIN.

SECTION 01010 - SUMMARY OF THE WORK

A. GENERAL CONTRACTOR'S RESPONSIBILITIES:
  1. EXCEPT AS SPECIFICALLY NOTED, PROVIDE AND PAY FOR:
    A. ALL LABOR, MATERIALS AND EQUIPMENT.
    B. TOOLS, CONSTRUCTION EQUIPMENT AND MACHINERY.
    C. WATER AND UTILITIES REQUIRED FOR CONSTRUCTION.
    D. OTHER FACILITIES AND SERVICES NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE WORK.
  2. PAY ALL LEGALLY REQUIRED SALES, CONSUMER AND USE TAXES.
  3. SECURE AND PAY FOR, AS NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE WORK AND AS APPLICABLE:
    A. PERMITS - THE OWNER WILL PAY FOR THE BASIC BUILDING PERMIT. ANY ADDITIONAL PERMITS REQUIRED FOR OTHER INCREMENTS OF THE WORK SHALL BE PAID BY THE GENERAL CONTRACTOR.
    B. GOVERNMENT FEES
    C. LICENSES
  4. GIVE REQUIRED NOTICES ALL PARTIES HAVING JURISDICTION.
  5. COMPLY WITH ALL CODES, ORDINANCES, RULES AND REGULATIONS, ORDERS AND OTHER LEGAL REQUIREMENTS OF PUBLIC AUTHORITIES WHICH BEAR ON THE PERFORMANCE AND COMPLETION OF THE WORK.
  6. PROMPTLY SUBMIT WRITTEN NOTICE TO ARCHITECT OF OBSERVED VARIANCE OF CONTRACT DOCUMENTS FROM LEGAL REQUIREMENTS. IT IS NOT THE CONTRACTOR'S RESPONSIBILITY TO MAKE CERTAIN THAT THE DRAWINGS AND SPECIFICATIONS COMPLY WITH APPLICABLE CODES AND REGULATIONS.
  7. ENFORCE STRICT DISCIPLINE AND GOOD ORDER AMONG EMPLOYEES. DO NOT EMPLOY UNFIT PERSONS OR PERSONS NOT SKILLED IN THEIR ASSIGNED TASKS.

B. CONTRACTOR'S USE OF PREMISES:
  1. CONFINE OPERATIONS AT SITE TO AREAS PERMITTED BY LAW, ORDINANCES, PERMITS, CONTRACT DOCUMENTS, THE OWNER OR ARCHITECT.
  2. DO NOT UNREASONABLY ENCUMBER THE SITE WITH MATERIALS OR EQUIPMENT.
  3. DO NOT LOAD STRUCTURE WITH WEIGHT THAT WILL ENDANGER THE STRUCTURE.
  4. ASSUME FULL RESPONSIBILITY FOR PROTECTION AND SAFEKEEPING OF PRODUCTS STORED ON PREMISES.
  5. MOVE ANY STORED PRODUCTS WHICH INTERFERE WITH OPERATION OF OWNER OR OTHER CONTRACTORS.
  6. OBTAIN AND PAY FOR USE OF ADDITIONAL STORAGE OR WORK AREAS NEEDED FOR THE OPERATION.

SECTION 01340 - SHOP DRAWINGS

A. SHOP DRAWINGS: SUBMIT A MINIMUM OF FIVE OF EACH DRAWING. CONTRACTOR SHALL REVIEW SHOP DRAWINGS AND PROJECT DATA PRIOR TO SUBMISSION TO ARCHITECT. SUBMITTALS MUST INCLUDE CONTRACTOR'S STAMP, INITIALED AND DATED. FAILURE TO STAMP AND INITIAL WILL RESULT IN REJECTION AND REQUIRE RESUBMISSION. CONTRACTOR'S RESPONSIBILITY FOR ERRORS AND OMISSIONS IN SUBMITTALS IS NOT RELIEVED BY ARCHITECT AND/OR ENGINEER'S REVIEW/APPROVAL. ARCHITECT/ENGINEER REVIEW WILL BE FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND WITH THE INFORMATION GIVEN IN THE DRAWINGS AND SPECIFICATIONS ONLY.

B. PROJECT DATA: SUBMIT A MINIMUM OF FIVE COPIES OF MANUFACTURER'S DESCRIPTIVE DATA AND OTHER PERTINENT INFORMATION AS REQUIRED.

C. ELECTRONIC SUBMITTALS FOR SHOP DRAWINGS WILL NOT BE ACCEPTED. ELECTRONIC SUBMITTALS FOR PRODUCT DATA WILL BE ACCEPTED, UNLESS THE ARCHITECTS DEEMS IT NECESSARY TO RECEIVE HARD COPIES.

SECTION 01455 - TESTING AND INSPECTION SERVICES

A. OWNER WILL EMPLOY AND PAY FOR SERVICES OF AN INDEPENDENT TESTING LABORATORY TO PERFORM CERTAIN TESTING AND INSPECTION. CONTRACTOR SHALL COOPERATE WITH THE TESTING LABORATORY TO FACILITATE PERFORMANCE OF ITS WORK.

B. CONTRACTOR'S RESPONSIBILITIES:
NOTIFY LABORATORY SUFFICIENTLY IN ADVANCE OF OPERATIONS TO ALLOW FOR LABORATORY ASSIGNMENT OF PERSONNEL AND SCHEDULING OF TESTS. WHEN TESTS OR INSPECTIONS CANNOT BE PERFORMED AFTER SUCH NOTICE, REIMBURSE OWNER FOR LABORATORY PERSONNEL AND TRAVEL EXPENSES INCURRED DUE TO CONTRACTOR'S NEGLIGENCE. MAKE ARRANGEMENTS WITH LABORATORY AND PAY FOR ADDITIONAL SAMPLES, TESTS OR INSPECTIONS REQUIRED FOR CONTRACTOR'S CONVENIENCE.

SECTION 05120 - STRUCTURAL STEEL

REFER TO PRE-ENGINEERED BUILDING DRAWINGS.

SECTION 05220 - STEEL JOISTS

REFER TO PRE-ENGINEERED BUILDING DRAWINGS.

SECTION 05300 - METAL ROOF DECK

REFER TO PRE-ENGINEERED BUILDING DRAWINGS.

SECTION 05400 - LIGHT GAUGE METAL FRAMING

THIS SECTION INCLUDES FORMED STEEL STUD EXTERIOR WALL FRAMING, ANCHORAGE AND ACCESSORIES.

A. ACCOMPLISH THE WORK IN COMPLIANCE WITH THE LATEST APPLICABLE GUIDELINES OR RECOMMENDATIONS OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS, AMERICAN WELDING SOCIETY, METAL FRAMING MANUFACTURERS ASSOCIATION, METAL LATH/STEEL FRAMING ASSOCIATION AND STEEL STRUCTURES PAINTING COUNCIL.

B. SYSTEM DESCRIPTION - CONTRACT DOCUMENTS ESTABLISH OVERALL DESIGN INTENT AND STANDARD OF QUALITY BUT DO NOT NECESSARILY DESCRIBE TOTAL EXTENT OF THE WORK. STRUCTURAL DESIGN OF COLD FORMED METAL FRAMING INCLUDING SOME SIZES, PROFILES, DETAILS AND METHODS OF CONNECTION AND ATTACHMENT ARE THE CONTRACTOR'S RESPONSIBILITY. MAINTAIN DESIGN CONCEPT SHOWN AND MEET SPECIFIED PERFORMANCE CRITERIA WITHOUT ALTERING PROFILES AND ALIGNMENTS.

C. PRODUCTS: PROVIDE MINIMUM 20 GA. (UNLESS NOTED OTHERWISE) STUDS IN SIZES INDICATED TO BE ROLLED FROM NEW SHEET STEEL, FINISHED G60 GALVANIZED, WITH CHANNEL PROFILE PUNCHED FOR UTILITY ACCESS. PROVIDE SYSTEM COMPATIBLE TRACKS. PROVIDE ALL BRACING, FURRING, BRIDGING, PLATES, GUSSETS, CLIPS, AND FASTENERS AS DETERMINED BY PERFORMANCE REQUIREMENTS.

D. ERECTION - INSTALL COMPONENTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. FASTEN TRACKS AT MAXIMUM 12 INCHES ON CENTER. PLACE STUDS AT SPACING INDICATED AND NOT MORE THAN 2 INCHES FROM ABUTTING WALLS AND AT EACH SIDE OF OPENINGS. CONNECT STUDS TO BOTTOM TRACK USING FASTENER METHOD. ERECT STUDS ONE PIECE FULL LENGTH. SPLICING NOT PERMITTED. INSTALL INTERMEDIATE STUDS ABOVE AND BELOW OPENINGS TO ALIGN WITH WALL STUD SPACING. ATTACH CROSS STUDS OR FURRING CHANNELS TO STUDS FOR ATTACHMENT OF FIXTURES ANCHORED TO WALLS.

SECTION 05500 - METAL FABRICATIONS

THIS SECTION INCLUDES SHOP FABRICATED FERROUS METAL COMPONENTS, GALVANIZED AND PRIME PAINTED; STEEL LADDERS; STEEL HANDRAILS AND RAILINGS; STEEL BOLLARDS; AND BAR GRATINGS.

A. WORK SHALL BE ACCOMPLISHED IN COMPLIANCE WITH THE LATEST GUIDELINES AND RECOMMENDATIONS OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS, AMERICAN WELDING SOCIETY, NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS, AND THE STEEL STRUCTURES PAINTING COUNCIL.

B. SHOP DRAWINGS FOR THIS WORK SHOULD INCLUDE DIMENSIONS, METAL THICKNESSES, FINISHES, JOINTS, ATTACHMENTS, AND RELATIONSHIP TO ADJACENT CONSTRUCTION.

C. PROVIDE MATERIALS AND ACCESSORIES AS INDICATED IN THE DRAWINGS AND AS OTHERWISE REQUIRED TO COMPLETE THE WORK AS REQUIRED ABOVE. PRIMER AND TOUCH-UP FOR FERROUS METALS TO BE SSPC 15, TYPE I, RED OXIDE. TOUCH-UP FOR GALVANIZING TO BE SSPC 20, TYPE I OR II.

D. FABRICATION:
  1. FIT AND SHOP ASSEMBLE ITEMS IN LARGEST PRACTICAL SECTIONS FOR DELIVERY TO SITE. FABRICATE ITEMS WITH JOINTS TIGHTLY FITTED AND SECURED.
  2. GRIND EXPOSED JOINTS FLUSH AND SMOOTH WITH ADJACENT SURFACES. MAKE EXPOSED JOINTS BUTT TIGHT, FLUSH AND HAIRLINE. EASE EXPOSED EDGES TO SMALL UNIFORM RADIUS.
  3. CONCEAL FASTENING WHERE POSSIBLE. EXPOSED MECHANICAL FASTENINGS SHALL BE COUNTERSUNK SCREWS OR BOLTS, UNOBTRUSIVELY LOCATED, CONSISTENT WITH DESIGN OF COMPONENT EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.
  4. SUPPLY COMPONENTS REQUIRED FOR ANCHORAGE OF FABRICATIONS. FABRICATE ANCHORS AND RELATED COMPONENTS OF SAME MATERIAL AND FINISH AS FABRICATION, EXCEPT WHERE SPECIFICALLY NOTED.
  5. SUPPLY COMPONENTS REQUIRED FOR ANCHORAGE OF FABRICATIONS. FABRICATE ANCHORS AND RELATED COMPONENTS OF SAME MATERIAL AND FINISH AS FABRICATION, EXCEPT WHERE SPECIFICALLY NOTED.
  6. WELDING TO CONFORM TO AWS D1.1. USE WELDS FOR PERMANENT CONNECTIONS WHERE POSSIBLE. GRIND EXPOSED WELDS SMOOTH. TACK WELDS PROHIBITED ON EXPOSED SURFACES.

E. FINISHES ON FERROUS METAL COMPONENTS AS NOTED IN THE DRAWINGS:

GALVANIZED - ASTM A 123/A 123/M, TO 1.25 OUNCES PER SQUARE FOOT.

PRIMED - SHOP PAINTED EXCEPT STEEL TO BE ENCASED IN CONCRETE AND SURFACES TO BE WELDED. PREPARE SURFACE AND APPLY PER MANUFACTURER'S RECOMMENDATIONS. MINIMUM DRY FILM THICKNESS - 2.0 MILS.

F. EXECUTION:
  1. INSTALLATION - INSTALL ITEMS IN ACCORDANCE WITH APPROVED SHOP DRAWINGS. INSTALL COMPONENTS PLUMB, LEVEL, AND RIGID. WELDING: AWS D1.1. GRIND AND FILL EXPOSED WELDS, FINISH SMOOTH AND FLUSH. INSTALL SLEEVED COMPONENTS WITH ANCHORING CEMENT.
  2. ADJUSTING - CLEAN AND TOUCH-UP PRIMER PAINT AT WELDED AND ABRADED SURFACES WITH SAME PRODUCT AS APPLIED IN SHOP. CLEAN AND TOUCH-UP GALVANIZED COATINGS AT WELDED AND ABRADED SURFACES WITH ZRC GALVILITE GALVANIZING REPAIR COMPOUND, APPLIED PER MANUFACTURER'S RECOMMENDATIONS

G. MATERIALS:
  1. STEEL GRATING - GHB250 AS MANUFACTURED BY THE McNICHOLS COMPANY, 1-800-237-3820; PRIME AND PAINT PER ARCHITECT
  2. PIPE BOLLARDS - 6" DIAMETER PAINT GRIP GALVANIZED STEEL, EMBEDDED IN 12" DIAMETER 3,000 PSI CONCRETE 48" BELOW FINAL GRADE TO 48" ABOVE FINAL GRADE; FILL WITH CONCRETE AND PROVIDE A ROUNDED TOP OF CONCRETE

SECTION 06100 - CARPENTRY

A. PROVIDE ALL MATERIAL FOR COMPLETE INSTALLATION OF WOOD BLOCKING, WOOD FURRING, TELEPHONE AND/OR ELECTRICAL BACKBOARDS, ROOF CURBS (IF REQUIRED), SOFFITS, AND OTHER ITEMS INCLUDED IN THE DRAWINGS.

B. WOOD USED AT ALL COPING, BLOCKING, AND NAILER LOCATIONS SHALL BE MCQ OR ACQ CEDAR-TONE PRESSURE-TREATED LUMBER; NO ARSENIC TYPE OR GREEN COLOR TREATED LUMBER IS ALLOWED

C. DISCOLORATION OF WOOD CAUSED BY EXPOSURE TO SUNLIGHT AND/OR WATER SHALL BE GROUNDS FOR REJECTION; EXPOSED MARKINGS, INCLUDING STAMPS FROM THE MILL, WILL BE GROUNDS FOR REJECTION

SECTION 07123 - FIBROUS AND REFLECTIVE INSULATION

REFER TO PRE-ENGINEERED BUILDING DRAWINGS.

SECTION 07410 - PRE-FORMED ROOF PANELS

A. STANDING SEAM ROOFING AT AWNINGS - FURNISH AND INSTALL BERRIDGE HIGH SEAM TEE-PANEL STANDING SEAM SYSTEM AS MANUFACTURED BY BERRIDGE MANUFACTURING COMPANY, HOUSTON, TEXAS; SEAM HEIGHT SHALL BE 1", PREFINISHED METAL SHALL BE 24 GAUGE WITH KYNAR 500 FINISH. COLOR SELECTION BY ARCHITECT.

SOFFIT AND WALL PANELS - BERRIDGE FLUSH SEAM PANEL, 24 GA. WITH KYNAR FINISH. COLOR SELECTION BY ARCHITECT.

B. PROVIDE ALL FLASHINGS, CLOSURE PIECES, ETC. OF SAME MATERIAL FOR A COMPLETE INSTALLATION.

C. COLOR TO BE SELECTED FROM MANUFACTURER'S STANDARD COLORS.

D. PRIOR TO INSTALLATION, VERIFY FRAMING AND EXISTING CONDITIONS ARE ADEQUATE FOR THE FINAL INSTALLATION OF THE PANELS. PANELS TO BE VOID OF DENTS AND NOTICEABLE DEFLECTIONS. PROVIDE ALL FLASHINGS, CLOSURE PIECES, ETC. OF SAME MATERIAL FOR A COMPLETE INSTALLATION.

E. SUBMIT ELECTRONIC COPIES OF PRODUCT DATA AND SHOP DETAILS FOR ALL EXPOSED METAL FLASHING AND COPINGS.

F. ALL PERFORMANCE AND INSTALLATION REQUIREMENTS AS WELL AS ROOFING SYSTEM STANDARDS AND ACCESSORIES SHALL COMPLY WITH SECTIONS 1504.3.2 AND 1507.4 OF THE 2012 I.B.C. AND IN TURN, TESTED IN ACCORDANCE WITH UL 580 OR ASTM E 1592.

SECTION 07510 - FLAT ROOFING SYSTEMS

REFER TO PRE-ENGINEERED BUILDING DRAWINGS
FOR ULTRA-DECK ROOFING SYSTEM ON MAIN ROOF.

SECTION 07600 - FLASHING AND SHEET METAL FABRICATIONS

A. CONFORM STRICTLY TO SPECIFICATIONS AND RECOMMENDATIONS OF THE SMACNA ARCHITECTURAL MANUAL, LATEST EDITION, FOR FORMING, SOLDERING, ANCHORING, CLEANING AND PROVIDING FOR THERMAL EXPANSION AND CONTRACTION.

B. METAL COPINGS AND EXPOSED METAL FLASHINGS - FURNISH AND INSTALL METAL COPINGS AS DETAILED AND DESCRIBED IN THE DRAWINGS. PREFINISHED METAL TO BE 24 GAUGE WITH KYNAR 500 FINISH, COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARDS.

C. LOCATION OF COPING JOINTS SHALL BE APPROVED BY ARCHITECT; OVERLAP METAL JOINTS PER SMACNA, APPLY SEALANT, AND INSTALL 2" WIDE COVER PIECE OF SAME MATERIAL AND PROFILE.

D. PROVIDE ALL FLASHINGS, CLOSURE PIECES, ETC. FOR A COMPLETE INSTALLATION.

E. ALL EDGES OF COPING SHALL BE FASTENED WITH CONTINUOUS CLEATS AND RECEIVE A CONTINUOUS BEAD OF SEALANT AS SPECIFIED; NO PENETRATIONS THROUGH COPING WILL BE ALLOWED.

F. CONTRACTOR SHALL NOT INSTALL COPING IN A VERTICAL DIRECTION UNLESS INDICATED IN THE DRAWINGS AT EACH SPECIFIC LOCATION OR APPROVED BY ARCHITECT FOR EACH SPECIFIC LOCATION.

G. J-MOLD: WHERE INDICATED ON DRAWINGS INSTALL GALVANIZED, 20 GA. 'J' MOULD WITH MINIMUM HEMMED 1/2" OUTSIDE LEG; PERFORATED J-MOLD WHERE INDICATED ON DRAWINGS SHALL BE SAME WITH 1/4" DIAM. HOLES DRILLED INTO THE 1/2" LEG AT 8" O.C., MITRE ALL CORNERS; ALL FRY REGLET MOLDINGS SHALL HAVE A CLEAR ANODIZED FINISH; CONTRACTOR SHALL VERIFY DIMENSIONAL COMPATIBILITY OF MOLDING WITH MATERIAL THAT WILL BE INSERTED INTO THE MOLDING; NO EXPOSED FASTENERS WILL BE ALLOWED IN THE MOLDING

H. PREFINISHED METAL FLASHING AND TRIM AS PART OF THE FLAT ROOFING SYSTEM SHALL BE MINIMUM 24 GA., COLOR PER ARCHITECT

I. PREFINISHED SHEET METAL LEADER HEADS AND DOWNSPOUTS SHALL BE MINIMUM 24 GA., COLOR PER ARCHITECT.

J. SUBMIT ELECTRONIC COPIES OF PRODUCT DATA FOR ALL EXPOSED METAL FLASHING AND COPINGS.

SECTION 07900 - SEALANTS

A. PROVIDE AND INSTALL ALL SEALERS, PRIMERS, BACKUP MATERIALS, BOND BREAKERS AND ACCESSORIES REQUIRED.

B. INSTALL IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.

C. AT JOINTS IN CONCRETE FLOORS, INSTALL SONOLASTIC SL1 SELF-LEVELING SEALANT, ASTM C 920, TYPE S, GRADE P, CLASS 25. COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S PALATE.

D. AT CONTROL JOINTS OTHER THAN CONCRETE FLOORS AND AS INDICATED IN THE DRAWINGS, INSTALL DOW CORNING 790 SILICONE BUILDING EXTERIOR SEALANT, ASTM C 920 CLASS, TYPE II, GRADE NS, CLASS A, NON SAG. MOVEMENT CAPABILITY OF PLUS 100 PERCENT AND MINUS 50 PERCENT. COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S PALATE. SONNEBORNE ISONOLASTIC 150, NP-1 OR NP-2 WILL NOT BE ACCEPTED.

E. PROVIDE MINIMUM 20 YEAR WARRANTY INCLUDING COVERAGE FOR EXTERIOR SEALERS AND ACCESSORIES THAT FAIL TO PROVIDE AIR AND WATER TIGHT SEAL, EXHIBIT LOSS OF ADHESION OR COHESION, OR DO NOT CURE.

SECTION 08200 - INTERIOR ALUMINUM FRAMES

A. MATERIALS: EXTRUDED ALUMINUM ASTM B221, ALLOY 6063-T5 OR ALLOY 6463-T5.

B. COMPONENTS: ALUMINUM DOOR FRAMES: PROVIDE FRAMES TO FIT WALLS THICKNESSES AS INDICATED ON THE DRAWINGS AND CONSTRUCTED FROM MATERIALS AS FOLLOWS:
  1. FRAME MEMBERS: EXTRUDED ALUMINUM SHAPES, NOT LESS THAN 0.062 INCHES THICK, REINFORCED AT ALL HINGE AND STRIKE LOCATIONS.
  2. CORNER BRACKETS: EXTRUDED ALUMINUM, FASTENED WITH STAINLESS STEEL SCREWS.
  3. TRIM: EXTRUDED ALUMINUM, HOT LESS THAN 0.062 INCHES THICK, REMOVABLE SNAP-IN TYPE WITHOUT EXPOSED FASTENERS.
  4. REPLACEABLE WEATHERSTRIPPING AAMA 701/702/ WOOL PILE.
  5. GLAZING: CLEAR 1/4 INCH TEMPERED GLASS.

C. FINISH: DARK BRONZE ANODIC COATING, MINIMUM THICKNESS 0.4 MIL.

D. FABRICATION:
  1. HINGE AND LOCK STILES: 0.125 INCH
  2. BETWEEN MEETING STILES: 0.25 INCH
  3. AT TOP RAIL AND BOTTOM RAIL: 0.125 INCH

E. EXAMINATION: VERIFY THAT ALL WALL SURFACES ARE READY TO RECEIVE FRAMES AND ARE WITHIN TOLERANCES SPECIFIED IN THE MANUFACTURER'S INSTRUCTIONS.

F. INSTALLATION:
  1. INSTALL DOORS AND FRAMES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPROVED SHOP DRAWINGS.
  2. SET FRAMES PLUMB, SQUARE AND LEVEL AND ALIGNED TO RECEIVE DOORS. ANCHOR FRAMES TO ADJACENT CONSTRUCTION IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND WITHIN SPECIFIED TOLERANCES.
  3. WHERE ALUMINUM SURFACES CONTACT METALS OTHER THAN STAINLESS STEEL, ZINC OR SMALL AREAS OF WHITE BRONZE, PROTECT FROM DIRECT CONTACT WITH HEAVY COATING OF BITUMINOUS PAINT.
  4. INSTALL GLAZING IN GLAZING FRAMES: SET GLAZING STOPS AND GLAZING GASKETS FLUSH WITH FRAMES.

SECTION 08400 - ENTRANCES AND STOREFRONTS

A. QUALITY ASSURANCE: DESIGN SYSTEM TO WITHSTAND MINIMUM 20 PSF WIND LOAD, WITH MAXIMUM DEFLECTION OF ANY FRAMING MEMBER NOT TO EXCEED 1/175 OF ITS SPAN (ASTM E330). DESIGN SYSTEM, INCLUDING ANCHORS AND ATTACHMENTS, TO WITHSTAND TEMPERATURE DIFFERENTIALS OF 160 DEGREES F WITHOUT DAMAGE OR DEFORMATION.

B. SUBMIT SEPARATE SHOP DRAWINGS FOR EACH WALL OPENING WITH A PLAN VIEW AND ELEVATION.

C. MATERIALS: ALL COMPONENTS TO BE KAWNEER, OLD CASTLE OR EQUAL AS APPROVED BY ARCHITECT.

D. STOREFRONT SYSTEM FRAMING: KAWNEER TRIFAB II 451, OLDCASTLE SERIES 3000 THRMAL OR APPROVED EQUAL. ALL STOREFRONT FRAMING AND DOORS TO BE ANODIC FINISH. PAINTED OR POWDER COATED FINISHES WILL NOT BE ACCEPTED.

E. DOORS - SHALL BE KAWNEER OR OLDCASTLE WIDE STILE DOOR WITH 8" MIDDLE MUNTIN AND 10" BOTTOM RAIL TO ACCEPT PANIC HARDWARE AS SCHEDULED. PULL - 1" DIAMETER OFFSET PANIC PULL. INCLUDE SINGLE ACTING SURFACE CLOSER W/ BACK CHECK AND HOLD OPEN. LOCK TO BE ADAMS-RITE SERIES MS-1850-A DEADLOCK. THRESHOLD SLOPE NOT EXCEED 1:2 SLOPE PER T.A.S. REQUIREMENTS. PROVIDE 1/2' HIGH ALUMINUM THRESHOLDS. DOOR OPERATION SHALL MEET TEXAS ACCESSIBILITY STANDARDS. GLASS STOPS ON THE TOP OF THE BOTTOM RAIL SHALL BE TAPERED AT 60 DEGREES FROM HORIZONTAL. BOTTOM RAIL SHALL BE 10" MINIMUM HEIGHT.

F. DESIGN AND INSTALL COMPLETE SYSTEM, TOGETHER WITH ALL FASTENERS, GLAZING GASKETS, WEATHER-STRIPPING, ETC. PER MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS.

G. FINISH: FRAMING AND DOORS TO BE DARK BRONZE ANODIC COATING UNLESS OTHERWISE SPECIFIED.

H. PER SECTION 07900 FOR APPROVED SEALANTS:
INSTALL DOW CORNING 790 EXTERIOR BUILDING SEALANT; ASTM C 920, TYPE II, GRADE NS, CLASS A, NON SAG. MOVEMENT CAPABILITY OF PLUS 100 PERCENT AND MINUS 50 PERCENT. COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S PALATE. SONNEBORNE SONOLASTIC 150, NP-1 OR NP-2 WILL NOT BE ACCEPTED.

SECTION 08110 - HOLLOW METAL DOORS AND FRAMES

A. DOORS SHALL BE SDI 100, GRADE II, HEAVY DUTY, MODEL 1, FULL FLUSH COLD ROLLED STEEL CONFORMING TO ASTM A-366. INTERIOR FACE SHEETS SHALL BE OF NOT LESS THAN 16 GAUGE. EXTERIOR FACE SHEETS SHALL BE MINIMUM 16 GAUGE, ZINC COATED. FRAMES SHALL BE COMMERCIAL QUALITY, COLD ROLLED STEEL NOT LESS THAN 16 GAUGE. DOORS AND FRAMES SHALL BE FABRICATED WITH NO VISIBLE SEAMS. ALL JOINTS SHALL BE WELDED FULL, GROUND SMOOTH, SANDED AND PRIMED. CORE SHALL BE FOAMED-IN-PLACE POLYURETHANE.

B. MINIMUM R VALUE OF 12.0 REQUIRED.

C. DOOR OPERATION MUST CONFORM TEXAS ACCESSIBILITY STANDARDS. FOR DOORS WITH CLOSURES OPENING FORCE SHALL BE LESS THAN 5LBS.

D. REINFORCE DOORS TO RECEIVE CLOSERS.

SECTION 08710 - FINISH HARDWARE

A. ACCEPTABLE MANUFACTURERS FOR HOLLOW METAL AND SOLID CORE WOOD DOORS:
LOCKS: SCHLAGE, SARGENT
CLOSERS: LCN (4040XP), NORTON 7500
EXIT DEVICES: VON DUPRIN, SARGENT OR APPROVED EQUAL (EXIT DEVICES ON ALUMINUM STOREFRONT DOORS TO BE BY STOREFRONT MANUFACTURER.)

B. IN ADDITION TO HARDWARE SCHEDULED BELOW, PROVIDE ALL NECESSARY STOPS, SILENCERS, WEATHER-STRIPPING, ETC. FOR A COMPLETE INSTALLATION.

C. REFER TO PLANS FOR LOCATIONS OF HOLLOW METAL DOORS:
  1. ONE MORTISE LOCKSET, W/ FUNCTION AS SCHEDULED. SARGENT SERIES 8200 OR EQUAL
  2. 'L' LEVERS ON 'LE-2' ESCUTCHEON. PANIC HARDWARE AS SCHEDULED.
  3. FINISH SHALL BE DARK BRONZE UNLESS NOTED OTHERWISE.
  4. FIVE KEYS
  5. THREE SILENCERS
  6. WEATHER-STRIPPING AND WATER PROOF SWEEP
  7. 1/2" HIGH THRESHOLD W/ MAX. 1:2 SLOPE PER T.A.S. REQUIREMENTS
  8. PROVIDE ALL CLOSERS WITH HOLD OPEN FUNCTION.
  9. CLOSERS TO BE FULLY ADJUSTABLE TO MEET ACCESSIBILITY REQUIREMENTS. UNITS TO BE PARALLEL ARM TYPE WITH DARK BRONZE FINISH.
  10. ALUMINUM OR STAINLESS STEEL RAIN GUARD MOUNTED TO FRAME HEAD
  11. PROVIDE SEALANT AS SPECIFIED ON TOP SIDE OF RAIN GUARD.

D. HARDWARE ON INTERIOR SOLID CORE WOOD DOORS AS SCHEDULED.

SECTION 08800 - GLAZING

A. FURNISH GLAZING MATERIALS IN ACCORDANCE WITH CPSG ARCHITECTURAL GLAZING STANDARD. FLOAT GLASS TO MEET FED. SPEC. KDD-G-451D. SUBMIT 12" X 12" SAMPLE OF EACH GLASS TYPE TO BE USED. INSTALL TEMPERED GLASS AT DOORS AND ADJACENT TO DOORS/ENTRANCES AS REQUIRED BY LAW. GLAZING IN HAZARDOUS HUMAN IMPACT LOCATIONS SHALL BE TESTED IN ACCORDANCE WITH CPSC 16 CFR 1201 OR ANSI Z97.1 PER SECTION 2406.2 OF 2012 I.B.C.

B. GLASS TYPES:
  1. STOREFRONT GLASS: 1" INSULATED GLASS PANELS, TYPE I TRANSPARENT FLAT, CLASS 1, LOW E, SHGC 0.31, U-VALUE .27
  2. STOREFRONT TEMPERED GLASS: 1" INSULATED GLASS PANELS AT ALL HAZARDOUS LOCATIONS AS REQUIRED BY INTERNATIONAL BUILDING CODE. LOW E, SHGC 0.31, U-VALUE .27
  3. INTERIOR TEMPERED GLASS: 1/4" CLEAR GLASS PANELS AT ALL HAZARDOUS LOCATIONS AS REQUIRED BY INTERNATIONAL BUILDING CODE.

C. ACCEPTABLE MANUFACTURER FOR STOREFRONTS: PPG SOLARBRONZE + SOLARBAN 60 (3) CLEAR OR APPROVED EQUAL.

D. U-FACTORS OF FENESTRATION PRODUCTS (WINDOWS, DOORS AND SKYLIGHTS) SHALL BE DETERMINED IN ACCORDANCE WITH NFRC 100 BY AN ACCREDITED, INDEPENDENT LABORATORY AND LABELED AND CERTIFIED BY THE MANUFACTURER.

E. SOLAR HEAT GAIN COEFFICIENT OF FENESTRATION PRODUCTS (WINDOWS, DOORS AND SKYLIGHTS) SHALL BE DETERMINED IN ACCORDANCE WITH NFRC 200 BY AN ACCREDITED, INDEPENDENT LABORATORY AND LABELED AND CERTIFIED BY THE MANUFACTURER.

F. IN ACCORDANCE WITH NFRC 400 OR AAMA/WDMW/CSA 101/I.S.2/A440, WINDOWS, SKYLIGHTS, EXTERIOR SLIDING GLASS DOORS AND SWINGING DOORS MUST NOT EXCEED THEIR MAXIMUM AIR INFILTRATION RATE PER SECTION C402.4.3 AND TABLE C402.4.3 OF THE 2012 IECC.

SECTION 09500 - ACOUSTICAL CEILINGS

A. MANUFACTURERS: ARMSTRONG WORLD INDUSTIES. INC. OR APPROVED EQUAL.

B. ACOUSTICAL CEILING GRID - PRELUDE PLUS XL ALUMINUM 15/16" EXPOSED TEE. ACOUSTICAL CEILING TILE - 24" x 24" OPTIMA 3251 LAY-IN SQUARE EDGE TEGULAR TILES. 9/16 INCH THICKNESS, WHITE SURFACE COLOR.

C. SUPPORT CHANNELS AND HANGERS: GALVANIZED STEEL, SIZE AND TYPE TO SUIT APPLICATION, SEISMIC REQUIREMENTS AND CEILING SYSTEM FLATNESS REQUIREMENTS SPECIFIED BELOW.

PERIMETER MOLDINGS: SAME MATERIAL AND FINISH AS GRID. AT EXPOSED GRID, PROVIDE L-SHAPED MOLDING FOR MOUNTING AT SAME ELEVATION AS GRID.

D. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. VERIFY THAT LAYOUT OF HANGERS WILL NOT INTERFERE WITH OTHER WORK.

E. RIGIDLY SECURE SYSTEM, INCLUDING INCLUDING INTEGRAL ELECTRICAL AND MECHANICAL COMPONENTS, FOR A MAXIMUM DEFLECTION OF 1:360.

F. LOCATE SYSTEM ON ROOM AXIS ACCORDING TO THE REFLECTED CEILING PLAN. ANY DEVIATIONS MUST BE APPROVED BY THE ARCHITECT.

G. INSTALL AFTER ALL MAJOR ABOVE CEILING WORK IS COMPLETE. COORDINATE THE LOCATION OF HANGERS WITH OTHER WORK. HANG SUSPENSION SYSTEM INDEPENDENT OF WALLS, COLUMNS, DUCTS, PIPES, AND CONDUITS.

H. SUPPORT FIXTURE LOADS USING SUPPLEMENTARY HANGERS LOCATED WITHIN 6 INCHES OF EACH CORNER OR SUPPORT FIXTURES INDEPENDENTLY.

I. PERIMETER MOLDINGS SHALL BE INSTALLED USING THE LONGEST PRACTICAL LENGTHS. OVERLAP AND RIVET CORNERS.

J. TOLERANCES: MAXIMUM VARIATION FROM FLAT AND LEVEL SURFACE: 1/8 INCH IN 10 FEET. MAXIMUM CARIATION FROM PLUMB OF GRID MEMBERS CAUSED BY ECCENTRIC LOADS: 2 DEGREES.

SECTION 09900 - PAINTING

A. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND RELATED ITEMS REQUIRED TO COMPLETE THE WORK AS DESCRIBED IN THE DRAWINGS AND THESE SPECIFICATIONS. PAINT FAILURE IS LARGELY DUE TO POOR PREPARATION OF THE SURFACE TO BE PAINTED. FOR THIS PROJECT, THE GUIDE FOR SURFACE PREPARATION WILL BE SHERWIN WILLIAMS' A989 PAINTING AND COATING SYSTEMS FOR SPECIFIERS AND APPLICATORS. VARIOUS SURFACE PREPARATION TECHNIQUES ARE DESCRIBED FOR DIFFERENT MATERIALS AND SITUATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE CORRECT METHOD FOR PREPARING FOR THE SPECIFIC PAINT TO BE USED. THE SURFACES TO BE PAINTED AND THE FINISHES REQUIRED ARE AS FOLOWS:

B. CONTRACTOR SHALL VERIFY ALL COATINGS DO NOT EXCEED THE VOC LIMIT OF GREEN SEAL GS-11 AS INDICATED IN THE AUSTIN ENERGY GREEN BUILDING COMMERCIAL PROGRAM.
  1. HOLLOW METAL DOORS AND FRAMES, EXPOSED STRUCTURAL STEEL INCLUDING CANOPY FRAMES
     APPLY A SINGLE COAT OF PROCRYL UNIVERSAL PRIMER AND TWO COATS OF SHER-CRYL HPA ACRYLIC PAINT AS MANUFACTURED BY THE SHERWIN-WILLIAMS COMPANY.
  2. STEEL HANDRAILING, ELECTRICAL SCREEN WALL AND GATES, DUMPSTER GATES AND BOLLARDS
     APPLY A SINGLE COAT OF PROCRYL UNIVERSAL PRIMER AND TWO COATS OF INDUSTRIAL URETHANE ALKYD ENAMEL AS MANUFACTURED BY THE SHERWIN-WILLIAMS COMPANY.
  3. TILTWALL TEXTURED COATING - 2 COATS ULTRACRETE LATEX TEXTURED MASONRY TOPCOAT.
     APPLY A SINGLE COAT OF LOXON CONCRETE AND MASONRY PRIMER/SEALER, BY SHERWIN WILLIAMS. APPLY 2 COATS ULTRACRETE LATEX TEXTURED MASONRY TOPCOAT, INTEGRAL COLOR. PROVIDE SAMPLES OF FINE, MEDIUM AND COURSE TEXTURES FOR SELECTION BY ARCHITECT.
  4. INTERIOR WALLS AND CEILINGS:(REFER TO RELECTED CEILING PLAN FOR GYP. BD. CEILINGS)
     a. PRIMER - PREPRITE 200 LATEX PRIMER, AS MANUFACTURED BY THE SHERWIN-WILLIAMS COMPANY
     b. TWO COATS - PROMAR 200 INTERIOR ALKYD FINISH, AS MANUFACTURED BY THE SHERWIN-WILLIAMS COMPANY; COLOR PER ARCHITECT. SATIN FINISH.

SECTION 16720 - SECURITY ACCESS

SERIES 3200 KNOX-BOX; RECESSED MOUNTED WITH HINGED DOOR, WITH UL LISTED TAMPER SWITCHES, 1/4" PLATE STEEL HOUSING, 1/2" THICK STEEL DOOR WITH INTERIOR GASKET SEAL AND STAINLESS STEEL DOOR HINGE, COLOR SHALL BE DARK BRONZE, AS MANUFACTURED BY THE KNOX COMPANY, 1600 W. DEER VALLEY ROAD, PHOENIX, AZ, 85027, (800) 552-5669

LOCATE ADJACENT TO FIRE ROOM DOOR, COORDINATE WITH FIRE MARSHAL FOR FINAL LOCATION.

WORKMAN

GENERAL CONTRACTOR:
WORKMAN COMMERCIAL
CONSTRUCTION SERVICES, LTD.
PHONE (512)326-9293
FAX (512)447-8156
www.workmancommercial.com
CONTACT: MR. TRAVIS THRIFT

CONSTRUCTION ADMINISTRATION:
MR. RICK CANALES, ARCHITECT
(512)913-0597
rickcanales.architects@gmail.com

ACCU SHARP

2205 DOWNING LANE
LEANDER, TEXAS 78641

ACCUSHARP BUILDING 1 & BUILDING 2 SHELL

DOWNING LANE,
LEANDER TX 78641

REGISTERED ARCHITECT RICHARD CANALES 13617 STATE OF TEXAS

10-6-20

SPECIFICATIONS

DATE: 10-6-20

SHEET NUMBER

AS.1

GEOTECHNICAL REPORT INFORMATION:

FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL INVESTIGATION AND RECOMMENDATIONS IN THE FOLLOWING REPORT:

ECS SOUTHWEST, LLP
14050 SUMMIT DRIVE, SUITE 101
AUSTIN, TEXAS 78728
(512) 837-8005

REPORT #: 17:4984 DATE: JULY 12, 2018

GEOTECHNICAL INFORMATION:

EXISTING POTENTIAL FOR VERTICAL RISE (PVR)= 1 INCH

PROPOSED POTENTIAL FOR VERTICAL RISE (PVR)= 1 INCH MAXIMUM.

CONTRACTOR SHALL FOLLOW ALL GEOTECHNICAL REPORT RECOMMENDATIONS FOR ACHIEVING THE PROPOSED POTENTIAL FOR VERTICAL RISE (PVR).

REFERENCE GEOTECHNICAL REPORT FOR BUILDING PAD PREPARATION REQUIREMENTS.

GEOTECHNICAL NOTES

STANDARD SPECIFICATIONS AND CODES:

STRUCTURAL CONCRETE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318-02 AND 2012 INTERNATIONAL BUILDING CODE

MATERIALS:
1. CONCRETE SHALL MEET THE FOLLOWING REQUIREMENTS:
28 DAY STRENGTH:
DRILLED PIERS – 3,000 PSI
SLAB – 3,000 PSI
GRADE BEAMS – 3,000 PSI
TILTWALL PANELS – 4,000 PSI

AGGREGATE TYPE: C33
MAX. AGGREGATE SIZE: 1 1/2"

2. REINFORCING STEEL SHALL MEET THE FOLLOWING REQUIREMENTS:
#3 TO #18: ASTM A615 GRADE 60
WELDED WIRE REINF.: WELDED SMOOTH WIRE ASTM A1853

REINFORCING STEEL COVERAGE:
FOR LAYER NEAREST SURFACE UNLESS SPECIFIED OTHERWISE ON DRAWINGS:

1. CONCRETE SURFACES CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH:
A. #3 TO #18 BARS 3 INCHES
2. CONCRETE SURFACES EXPOSED TO EARTH OR WEATHER:
A. #3 TO #5 BARS 1 1/2 INCHES
B. #6 TO #18 BARS 2 INCHES
3. CONCRETE SURFACES NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH:
A. #3 TO #11 BARS IN SLABS AND WALLS 1 INCH
B. #3 TO #18 BARS IN BEAMS AND COLS 1 1/2 IN

DETAILS:
1. CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS FOR CONSTRUCTION JOINTS NOT SHOWN ON DRAWINGS FOR REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER.

2. EMBEDDED CONDUITS, PIPES, AND SLEEVES SHALL MEET THE REQUIREMENTS OF ACI 318-02, SECTION 6.3.

3. WALLS DETAIL REINFORCING IN ACCORDANCE WITH ACI DETAILING MANUAL AND AS FOLLOWS:

4. PROVIDE CORNER BARS FOR ALL HORIZONTAL BARS AT THE INSIDE AND OUTSIDE FACES OF INTERSECTING BEAMS OR WALLS. CORNER BARS ARE NOT REQUIRED IF HORIZONTAL BARS ARE HOOKED.

A. LAP REINFORCING BARS 40 BAR DIAMETERS MINIMUM, UNLESS NOTED OTHERWISE.

B. PROVIDE STANDARD HOOKS IN TOP BARS AT CANTILEVER AND DISCONTINUOUS ENDS OF BEAMS, WALLS AND SLABS.

STRUCTURAL NOTES

TILT-UP PANEL NOTES:

1. CONCRETE FOR TILT-UP PANELS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI. PROVIDE EXPANSION JOINTS BETWEEN ALL TILTWALL PANELS.

2. EXAMINE ALL CONSTRUCTION DOCUMENTS FOR REQUIRED FINISHES, REVEALS, AND EMBEDDED ITEMS.

3. EMBEDDED ITEMS SHALL BE SECURED IN THEIR PROPER LOCATION PRIOR TO THE PLACING OF CONCRETE. PUSHING THE EMBEDDED ITEMS INTO THE WET CONCRETE AFTER PLACEMENT IS NOT PERMITTED.

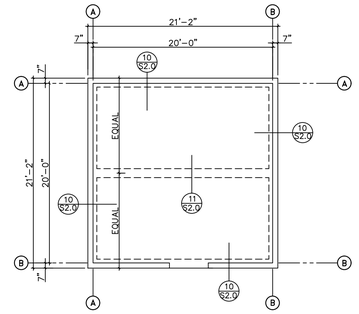
4. TEMPORARY WALL BRACING TO REMAIN IN PLACE UNTIL STRUCTURAL STEEL AND ROOF ARE COMPLETELY INSTALLED.

5. LIFT INSERTS, EXTRA REINFORCING BARS, AND BRACING EYES SHALL BE LOCATED AND SPECIFIED BY A LICENSED DESIGN COMPANY. DESIGN OF THESE ITEMS SHALL INCORPORATE ALL LOADS ASSOCIATED WITH LIFTING AND ERECTION OF THE WALL PANELS. A COPY OF THE STAMPED PANEL DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO CONCRETE PLACEMENT TO FORM WALLS.

6. NONSHRINK GROUT SHALL BE READY-TO-USE METALLIC AGGREGATE PRODUCT REQUIRING ONLY ADDITIONS OF WATER AT THE JOBSITE AND ADHERE TO THE FOLLOWING CRITERIA: OBTAIN A WORKABLE CONSISTENCY FOR INSTALLATION, EXHIBIT NO SIGNS OF SHRINKAGE OR SETTLEMENT AT ANY AGE, AND POSSESS A STRENGTH OF 5,000 PSI AT 28 DAYS.

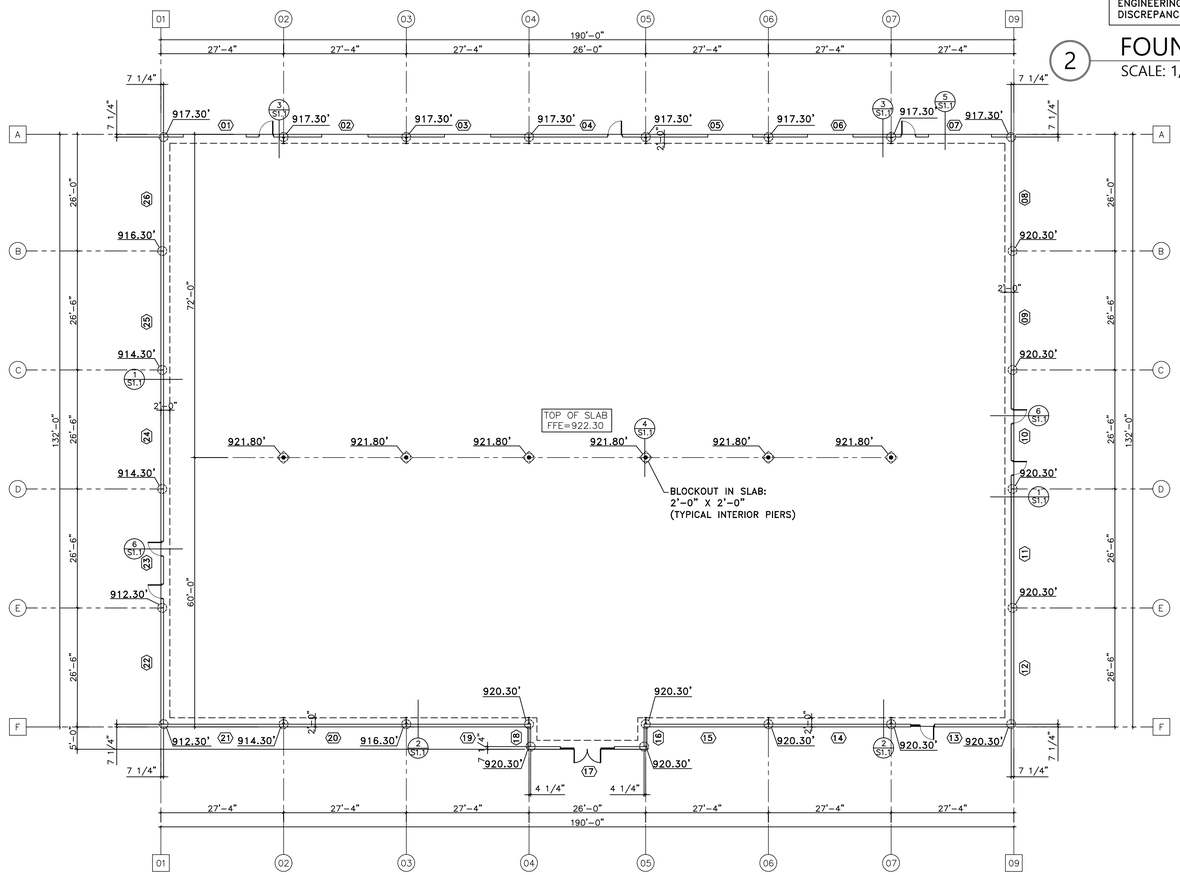
7. EXPANSION JOINTS TO RECEIVE ELASTOMERIC CAULKING USING A BACKER ROD. REFERENCE TILTWALL PANEL DETAILS.

TILT-UP PANEL NOTES



CONTRACTOR TO VERIFY ALL DIMENSIONS AND FEATURES WITH ARCHITECTURAL PLANS PRIOR TO SETTING FORMS OR POURING CONCRETE. NOTIFY SYNERGETIC ENGINEERING OF ANY DISCREPANCIES.

FOUNDATION NOTES:
1. SLAB DESCRIPTION:
5" THICK CONCRETE
#3 REBAR SPACED 12" O.C.
(LOCATE AT MID-DEPTH OF SLAB)



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

FOUNDATION NOTES:
1. SLAB DESCRIPTION: 6" THICK CONCRETE
#3 REBAR SPACED 12" O.C.E.W.
(LOCATE AT MID-DEPTH OF SLAB)
2. DRILLED PIERS: REFERENCE FOUNDATION DETAILS
3. TILTWALL PANEL JOINTS: 3/4"
4. TILTWALL PANEL CHAMFER: 3/4" U.N.O.
5. TILTWALL PANEL THICKNESS: 7 1/4" U.N.O.

1 DRILLED PIER & FOUNDATION PLAN- BUILDING 1
SCALE: 1/16"=1'-0"

BUILDING 1

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FOUNDATION PLAN
BUILDING 1

SCALE: 1/16"=1'-0"
PAGE SIZE: ARCH 'D'
24" X 36"

S1

Use as reference for building 3
(Bid Purposes Only)

GEOTECHNICAL REPORT INFORMATION:

FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL INVESTIGATION AND RECOMMENDATIONS IN THE FOLLOWING REPORT:

ECS SOUTHWEST, LLP
14050 SUMMIT DRIVE, SUITE 101
AUSTIN, TEXAS 78728
(512) 837-8005

REPORT #: 17:4984 DATE: JULY 12, 2018

GEOTECHNICAL INFORMATION:

EXISTING POTENTIAL FOR VERTICAL RISE (PVR)= 1 INCH

PROPOSED POTENTIAL FOR VERTICAL RISE (PVR)= 1 INCH MAXIMUM.

CONTRACTOR SHALL FOLLOW ALL GEOTECHNICAL REPORT RECOMMENDATIONS FOR ACHIEVING THE PROPOSED POTENTIAL FOR VERTICAL RISE (PVR).

REFERENCE GEOTECHNICAL REPORT FOR BUILDING PAD PREPARATION REQUIREMENTS.

GEOTECHNICAL NOTES

STANDARD SPECIFICATIONS AND CODES:

STRUCTURAL CONCRETE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318-02 AND 2012 INTERNATIONAL BUILDING CODE

MATERIALS:
1. CONCRETE SHALL MEET THE FOLLOWING REQUIREMENTS:
28 DAY STRENGTH:
DRILLED PIERS – 3,000 PSI
SLAB – 3,000 PSI
GRADE BEAMS – 3,000 PSI
TILTWALL PANELS – 4,000 PSI

AGGREGATE TYPE: C33
MAX. AGGREGATE SIZE: 1 1/2"

2. REINFORCING STEEL SHALL MEET THE FOLLOWING REQUIREMENTS:
#3 TO #18: ASTM A615 GRADE 60
WELDED WIRE REINF.: WELDED SMOOTH WIRE ASTM A1853

REINFORCING STEEL COVERAGE:
FOR LAYER NEAREST SURFACE UNLESS SPECIFIED OTHERWISE ON DRAWINGS:

1. CONCRETE SURFACES CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH:
A. #3 TO #18 BARS 3 INCHES
2. CONCRETE SURFACES EXPOSED TO EARTH OR WEATHER:
A. #3 TO #5 BARS 1 1/2 INCHES
B. #6 TO #18 BARS 2 INCHES
3. CONCRETE SURFACES NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH:
A. #3 TO #11 BARS IN SLABS AND WALLS 1 INCH
B. #3 TO #18 BARS IN BEAMS AND COLS 1 1/2 IN

DETAILS:
1. CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS FOR CONSTRUCTION JOINTS NOT SHOWN ON DRAWINGS FOR REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER.

2. EMBEDDED CONDUITS, PIPES, AND SLEEVES SHALL MEET THE REQUIREMENTS OF ACI 318-02, SECTION 6.3.

3. WALLS DETAIL REINFORCING IN ACCORDANCE WITH ACI DETAILING MANUAL AND AS FOLLOWS:

4. PROVIDE CORNER BARS FOR ALL HORIZONTAL BARS AT THE INSIDE AND OUTSIDE FACES OF INTERSECTING BEAMS OR WALLS. CORNER BARS ARE NOT REQUIRED IF HORIZONTAL BARS ARE HOOKED.

A. LAP REINFORCING BARS 40 BAR DIAMETERS MINIMUM, UNLESS NOTED OTHERWISE.

B. PROVIDE STANDARD HOOKS IN TOP BARS AT CANTILEVER AND DISCONTINUOUS ENDS OF BEAMS, WALLS AND SLABS.

STRUCTURAL NOTES

TILT-UP PANEL NOTES:

1. CONCRETE FOR TILT-UP PANELS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI. PROVIDE EXPANSION JOINTS BETWEEN ALL TILTWALL PANELS.

2. EXAMINE ALL CONSTRUCTION DOCUMENTS FOR REQUIRED FINISHES, REVEALS, AND EMBEDDED ITEMS.

3. EMBEDDED ITEMS SHALL BE SECURED IN THEIR PROPER LOCATION PRIOR TO THE PLACING OF CONCRETE. PUSHING THE EMBEDDED ITEMS INTO THE WET CONCRETE AFTER PLACEMENT IS NOT PERMITTED.

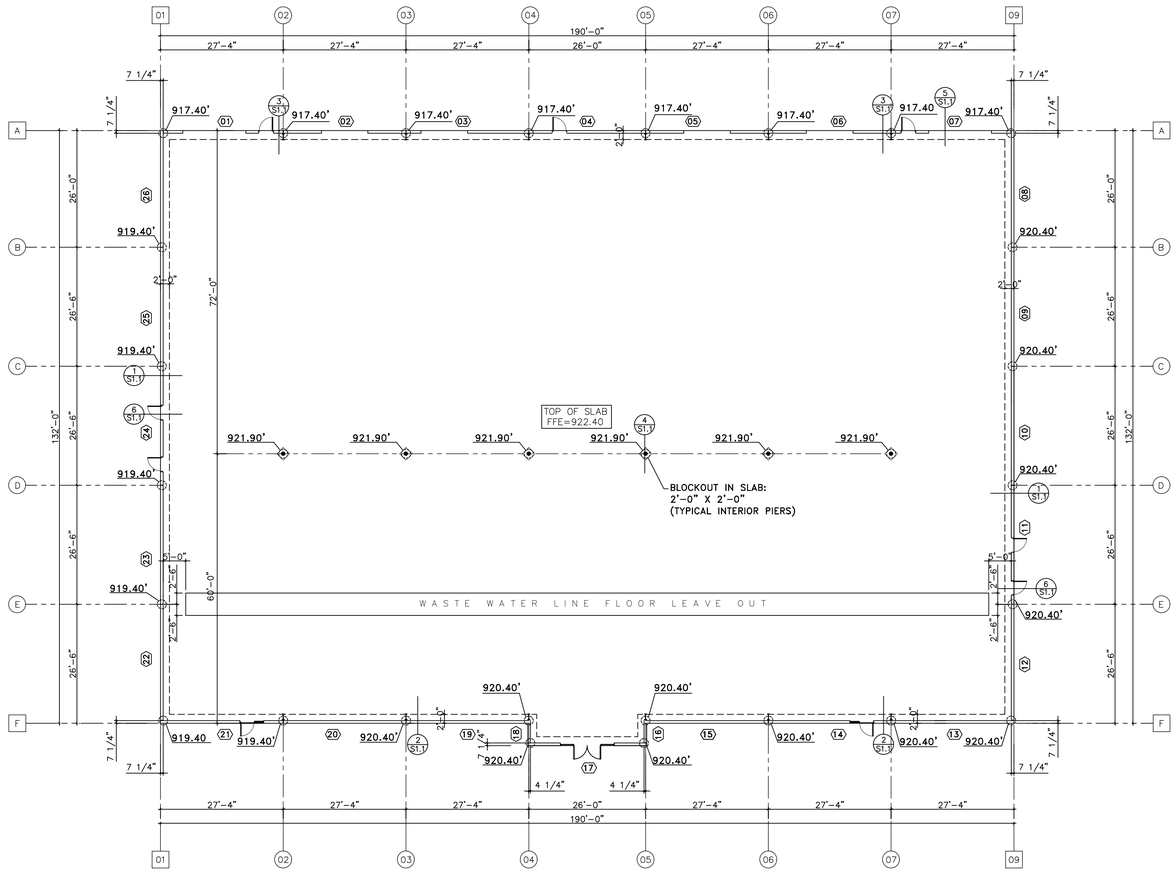
4. TEMPORARY WALL BRACING TO REMAIN IN PLACE UNTIL STRUCTURAL STEEL AND ROOF ARE COMPLETELY INSTALLED.

5. LIFT INSERTS, EXTRA REINFORCING BARS, AND BRACING EYES SHALL BE LOCATED AND SPECIFIED BY A LICENSED DESIGN COMPANY. DESIGN OF THESE ITEMS SHALL INCORPORATE ALL LOADS ASSOCIATED WITH LIFTING AND ERECTION OF THE WALL PANELS. A COPY OF THE STAMPED PANEL DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO CONCRETE PLACEMENT TO FORM WALLS.

6. NONSHRINK GROUT SHALL BE READY-TO-USE METALLIC AGGREGATE PRODUCT REQUIRING ONLY ADDITIONS OF WATER AT THE JOBSITE AND ADHERE TO THE FOLLOWNG CRITERIA: OBTAIN A WORKABLE CONSISTENCY FOR INSTALLATION, EXHIBIT NO SIGNS OF SHRINKAGE OR SETTLEMENT AT ANY AGE, AND POSSESS A STRENGTH OF 5,000 PSI AT 28 DAYS.

7. EXPANSION JOINTS TO RECEIVE ELASTOMERIC CAULKING USING A BACKER ROD. REFERENCE TILTWALL PANEL DETAILS.

TILT-UP PANEL NOTES



FOUNDATION NOTES:

1. SLAB DESCRIPTION: 6" THICK CONCRETE #3 REBAR SPACED 12" O.C.E.W. (LOCATE AT MID-DEPTH OF SLAB)
2. DRILLED PIERS: REFERENCE FOUNDATION DETAILS
3. TILTWALL PANEL JOINTS: 3/4"
4. TILTWALL PANEL CHAMFER: 3/4" U.N.O.
5. TILTWALL PANEL THICKNESS: 7 1/4" U.N.O.

1 DRILLED PIER & FOUNDATION PLAN - BUILDING 2
SCALE: 1/16"=1'-0"

BUILDING 2

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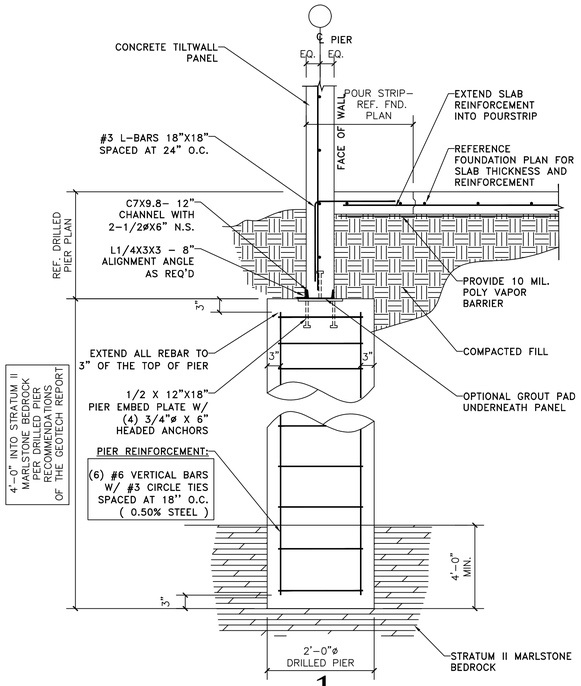
FOUNDATION PLAN

BUILDING 2

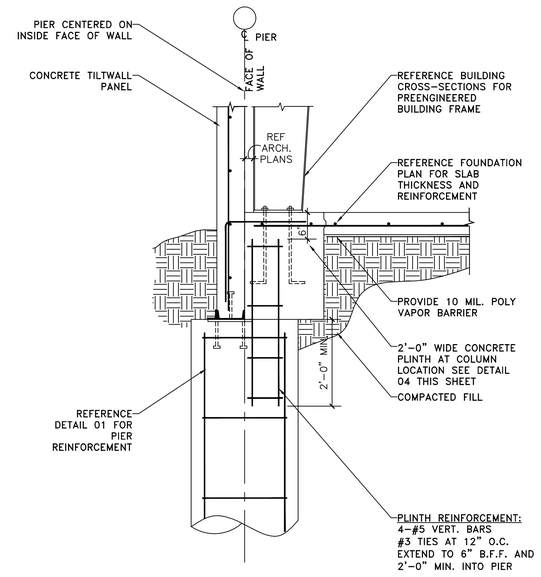
SCALE: 1/16"=1'-0"

PAGE SIZE: ARCH 'D'
24" X 36"

S1.1



SECTION 1



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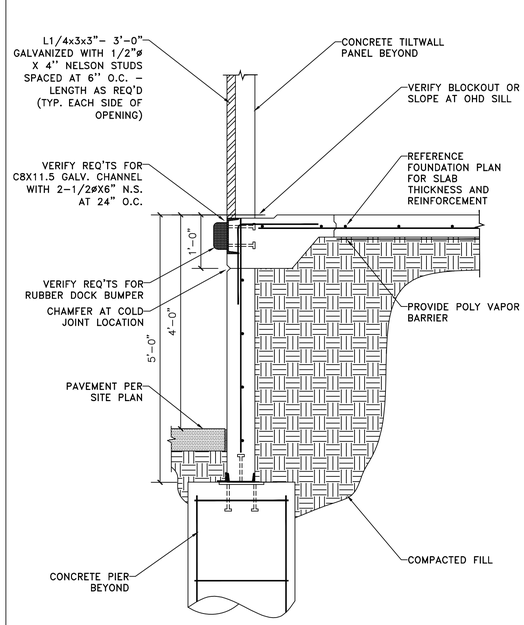

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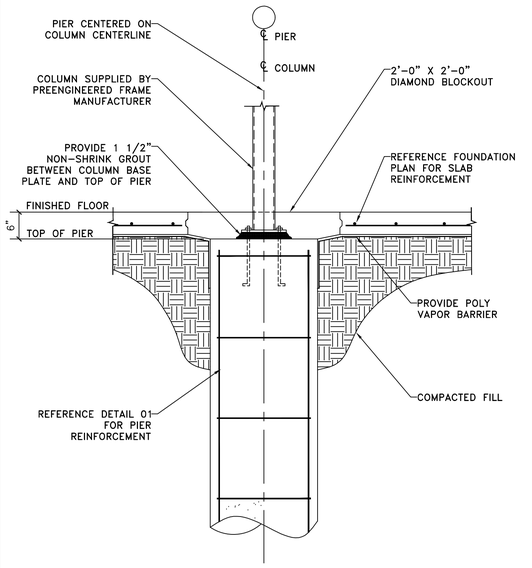

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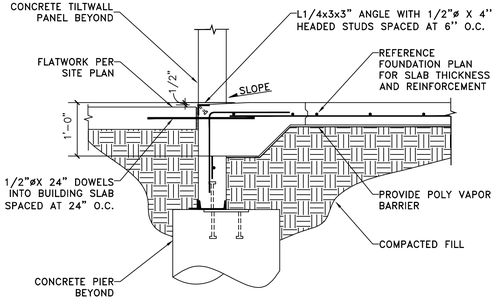
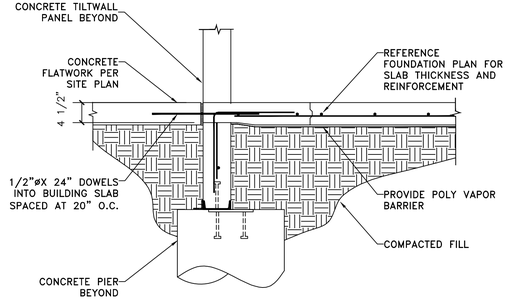


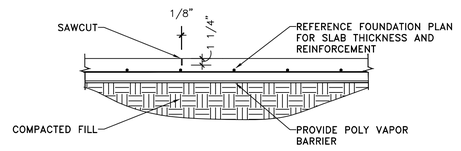
OVERHEAD GRADE DOOR

SECTION 5



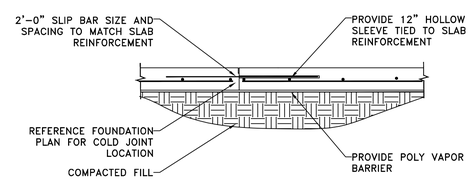
MANDOOR DETAIL

SECTION 6



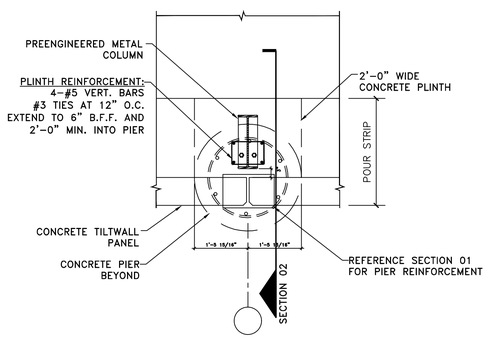
SAWCUT DETAIL

SECTION 7



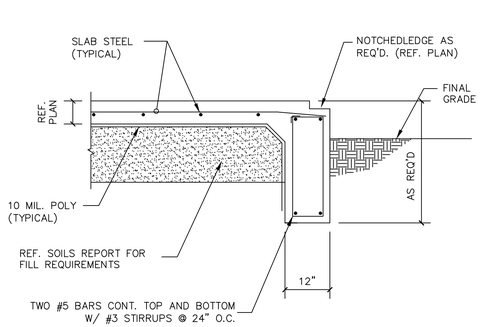
CONSTRUCTION JOINT

SECTION 8



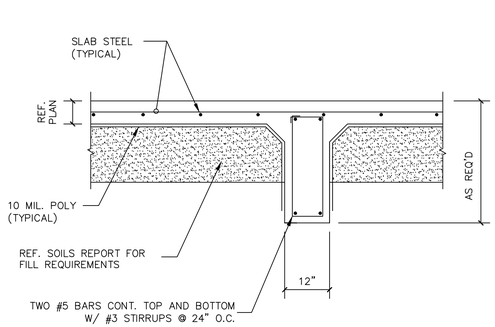
COLUMN PLINTH DETAIL AT TILTWALL

SECTION 9



EXTERIOR GRADE BEAM DETAIL

SECTION 10



INTERIOR GRADE BEAM DETAIL

SECTION 11

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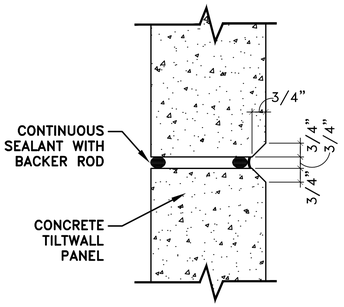
FOUNDATION DETAILS & NOTES

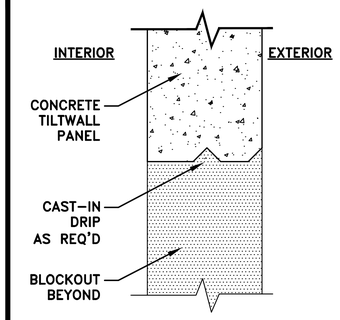
SCALE: NO SCALE

PAGE SIZE: ARCH 'D'
24" X 36"

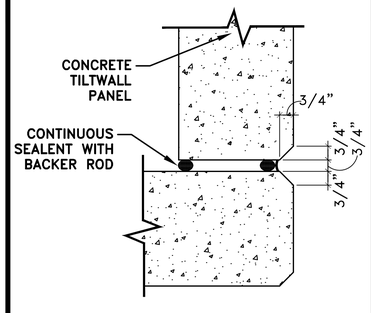
S2



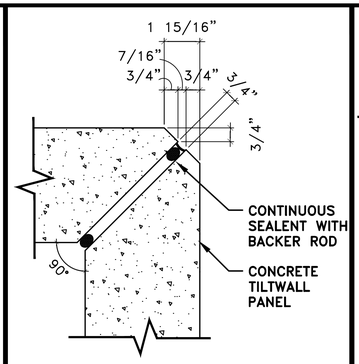
01 PANEL JOINT



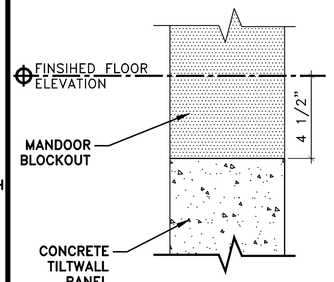
02 DRIP LEDGE



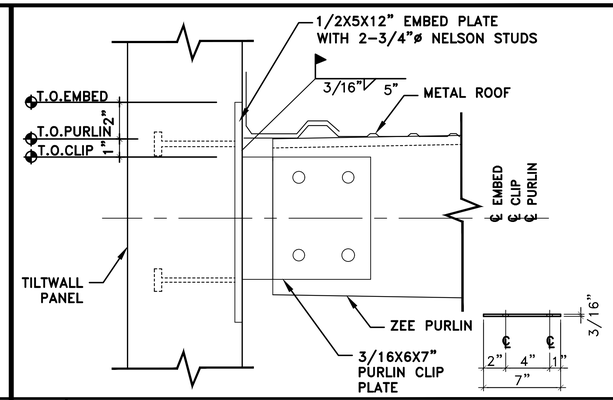
03 CORNER JOINT



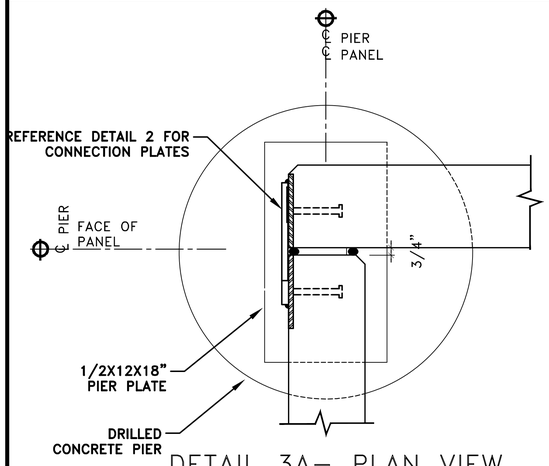
04 MITER DETAIL



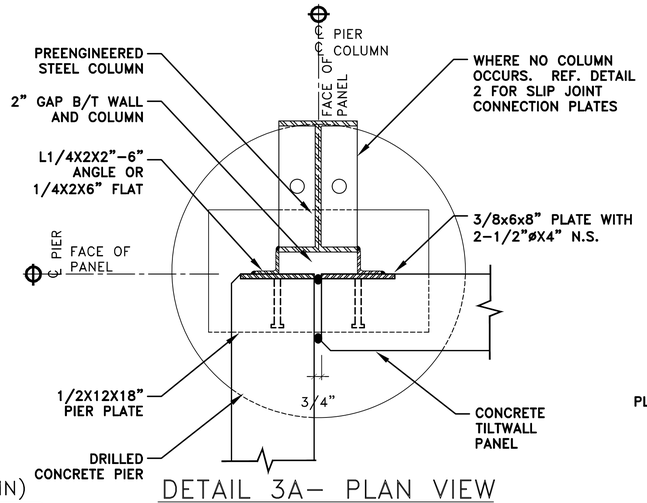
05 MANDOOR DETAIL



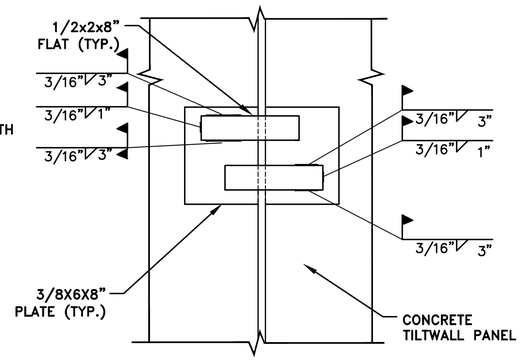
06 PURLIN CONNECTION PLATE



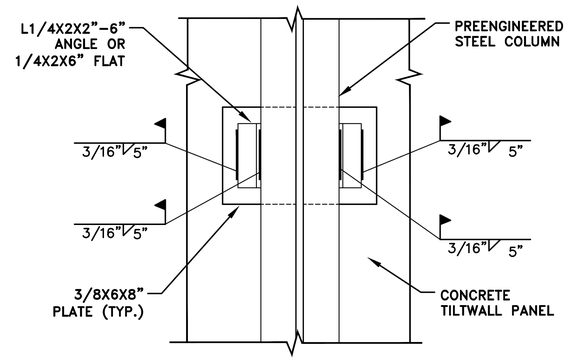
DETAIL 3A– PLAN VIEW
(AT RE–ENTRANT CORNER– NO COLUMN)



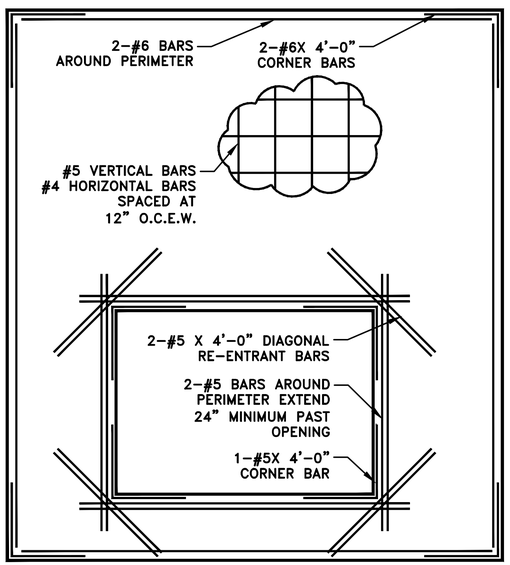
DETAIL 3A– PLAN VIEW
(AT RE–ENTRANT CORNER)



DETAIL 2– ELEVATION

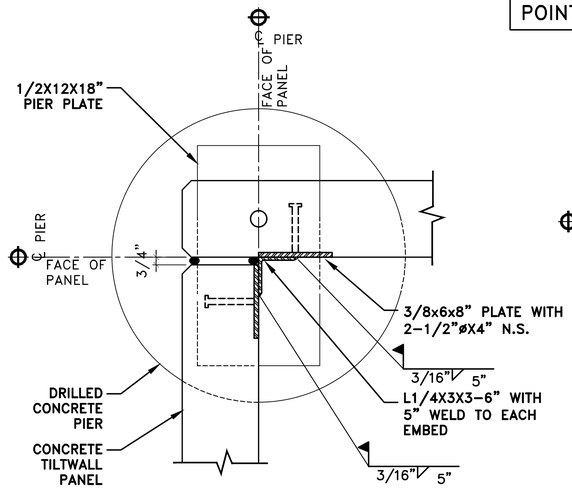


DETAIL 3– ELEVATION

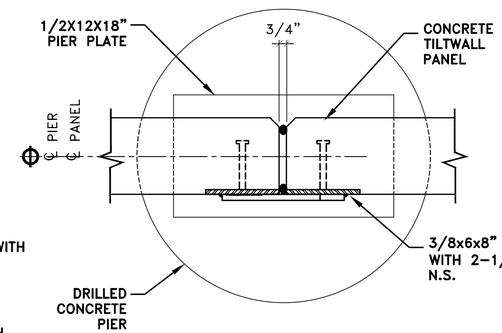


07 TYPICAL PANEL REINFORCEMENT

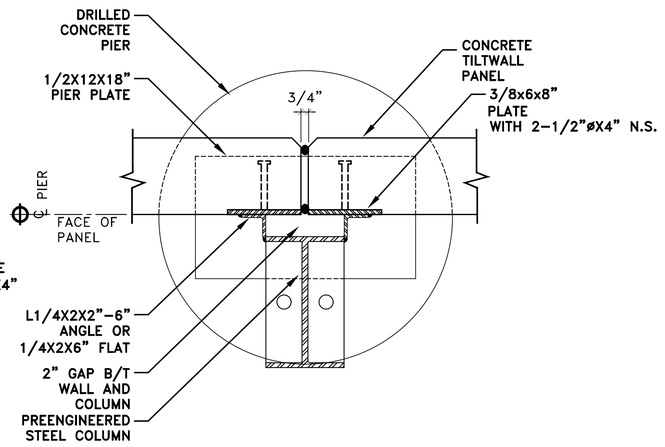
PROVIDE 3 TILTWALL PANEL CONNECTIONS PER JOINT AT APPROXIMATELY THE THIRD POINTS OF THE TILTWALL HEIGHT.



DETAIL 1– PLAN VIEW



DETAIL 2– PLAN VIEW



DETAIL 3– PLAN VIEW

08 TYPICAL TILTWALL CONNECTION DETAILS

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TILTWALL DETAILS

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S3