



# CHALLENGER PALLETS WEBER COUNTY INDUSTRIAL PARK

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Project Name

**CHALLENGER PALLETS**  
**WEBER COUNTY INDUSTRIAL PARK**

APPROX. 2150 N. 1175 W., WEBER COUNTY, UTAH

Issued		
No.	Date	Description

Revision		
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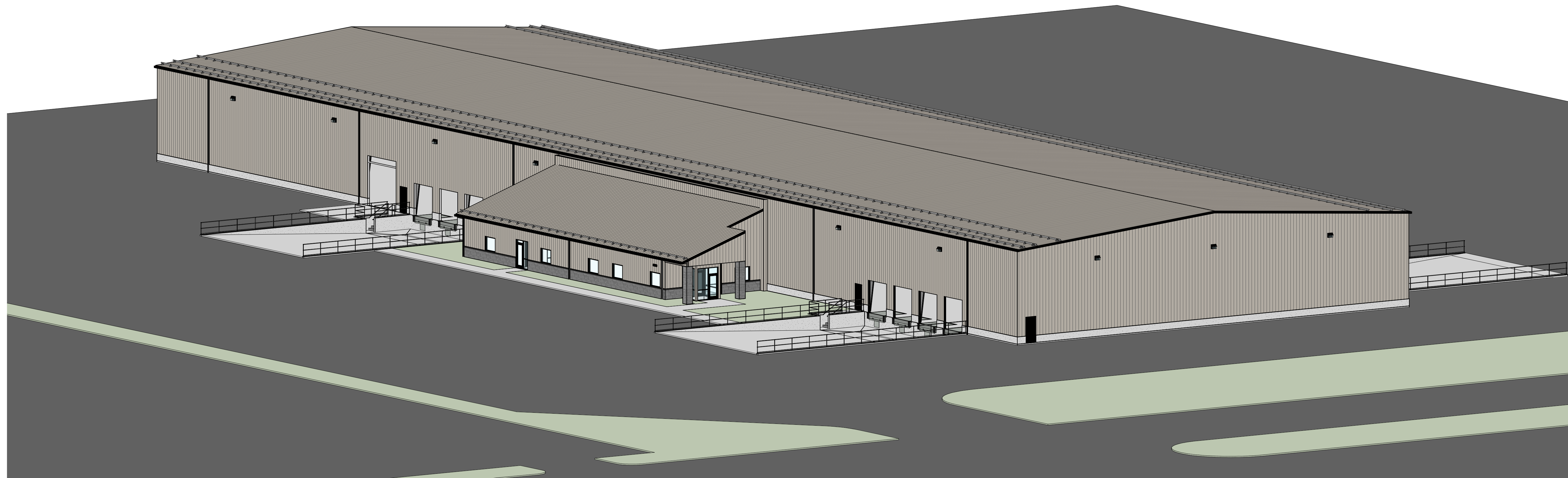
SAA Project No. 219010  
Drawing Title

COVER SHEET

Sheet Number

**GI001**

- OWNER:**  
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**SPECIAL INSPECTIONS (2018 IBC)**

**312300** SITE WORK- AS REQUIRED BY IBC 1705.6 "SOILS". SEE ALSO REQUIREMENTS ON GENERAL STRUCTURAL NOTES SHEETS. INSPECTION IS BY THE OWNERS AGENTS.

**033000** CONCRETE AND REINFORCING - AS REQUIRED BY IBC 1705.3. SEE ALSO REQUIREMENTS ON GENERAL STRUCTURAL NOTES SHEETS. INSPECTION IS BY THE OWNER AGENT.

**042000** MASONRY ASSEMBLIES- AS REQUIRED BY IBC 1705.4 "REINFORCING". SEE ALSO REQUIREMENTS ON GENERAL STRUCTURAL NOTES SHEETS. INSPECTION IS BY THE OWNERS AGENT.

**051200** METALS- SEE REQUIREMENTS ON GENERAL STRUCTURAL NOTES SHEETS PERTAINING TO SPECIAL INSPECTION FOR STEEL COMPONENTS. INSPECTION IS BY THE OWNERS AGENT.

**084413** SEISMIC RESISTANCE INSPECTION SHALL BE PROVIDED FOR STOREFRONT SYSTEMS PER IBC SECTION 1704.3.2 AND WIND RESISTANCE PER SECTION 1704.3.3. INSPECTION IS BY OWNERS AGENT.

**092900** GYPSUM BOARD- COLD WEATHER PLACEMENT REQUIREMENTS AS LISTED IN THIS SPECIFICATION SECTION. INSPECTION IS BY THE OWNERS AGENT.

**095100** ACOUSTICAL CEILINGS- SPECIAL INSPECTION REQUIREMENTS AS LISTED IN THIS SPECIFICATION SECTION. INSPECTION IS BY THE OWNERS AGENT.

**220548** MECHANICAL SEISMIC RESTRAINTS- AS REQUIRED BY IBC SECTION 1705.12.6 "SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE". INSPECTION IS BY THE OWNERS AGENT.

**231100** FUEL GAS PIPING- AS REQUIRED BY IBC SECTION 1705.12.6.3 "MECHANICAL AND ELECTRICAL COMPONENTS". SPECIFICALLY APPLYING TO NATURAL GAS PIPING. INSPECTION IS BY THE OWNERS AGENT.

**237400** ROOFTOP AIR CONDITIONERS- AS REQUIRED BY IBC SECTION 1705.12.6.5 "MECHANICAL AND ELECTRICAL COMPONENTS". SPECIFICALLY APPLYING TO ROOF MOUNTED FANS, ROOFTOP UNITS AND AIR HANDLING UNITS. INSPECTION IS BY THE OWNERS AGENT.

**260000** ELECTRICAL PER THE REQUIREMENTS OF ASCE 7, THE BUILDING OWNER WILL EMPLOY A SPECIAL INSPECTOR(S) TO OBSERVE THE CONSTRUCTION OF ALL DESIGNATED SEISMIC SYSTEMS IN ACCORDANCE WITH THE QUALITY ASSURANCE PLAN. PERIODIC SPECIAL INSPECTION DURING THE ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY AND STANDBY POWER SYSTEMS, INCLUDING BUT NOT LIMITED TO:

- A.** EMERGENCY LIGHTING, WITH ASSOCIATED CONDUIT, WIRING AND DISTRIBUTION SYSTEM.
- B.** FIRE ALARM SYSTEM AND DEVICES, WITH ASSOCIATED CONDUIT, WIRING AND DISTRIBUTION SYSTEM.

**DEFERRED SUBMITTALS**

CONTRACTOR IS RESPONSIBLE TO SUBMIT DEFERRED SUBMITTALS IN ACCORDANCE WITH IBC 107.3.4.1. AS PART OF THE SUBMITTAL PROCESS, THE CONTRACTOR IS TO SUBMIT ALL ICC ERS REPORTS FOR ITEMS NOTED

- MECHANICAL SEISMIC RESTRAINTS
- FIRE PROTECTION PER 107.2.2
- FIRE ALARM SYSTEMS
- FIRE MONITORING SYSTEMS
- ELECTRICAL SEISMIC RESTRAINTS



CLOSER MAP Project Address

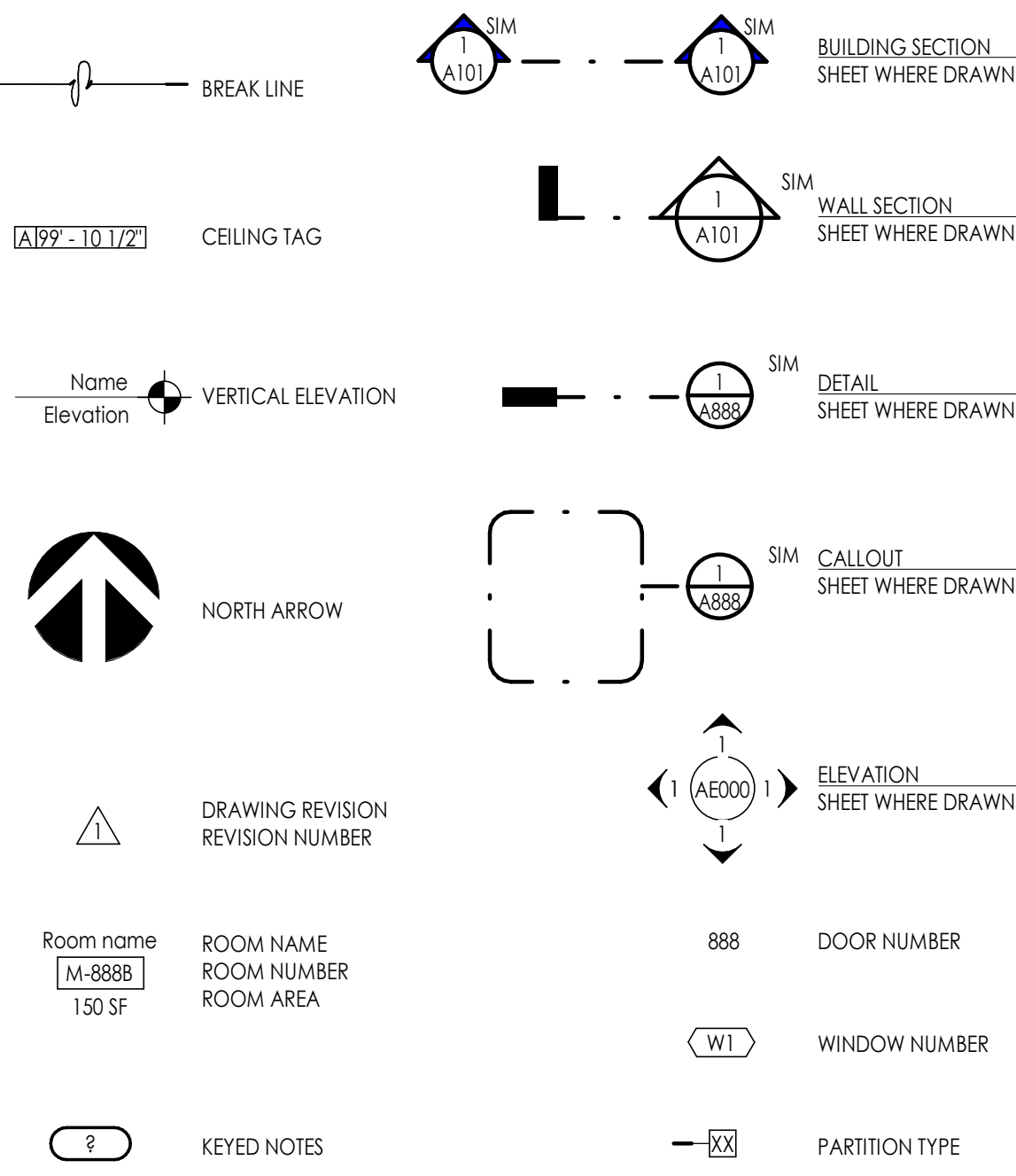


OVERALL MAP Project Address

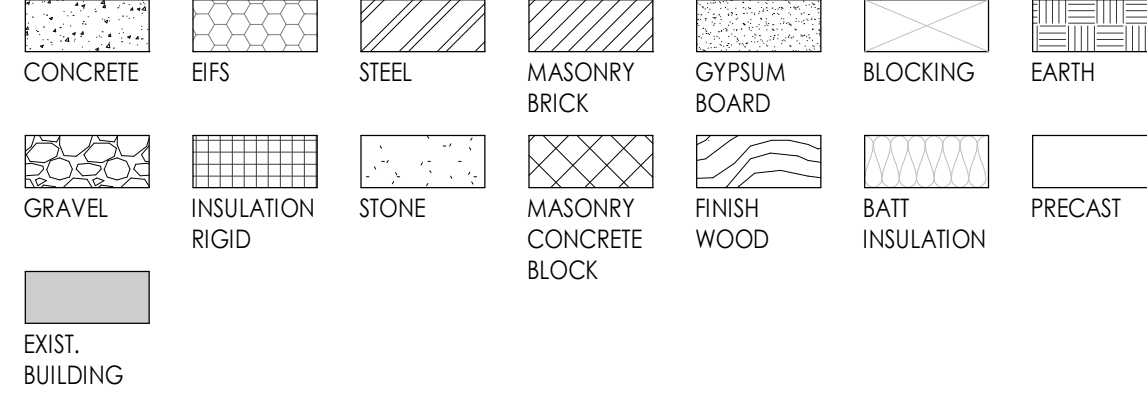
**Vicinity Map**

N.T.S.

**GENERAL SYMBOLS**



**MATERIALS**



**ABBREVIATIONS**

#	NUMBER	DWGS.	DRAWINGS	I.D.	INSIDE DIAMETER	REIN.	REINFORCED
@	AT	EA.	EACH	I.F.	INSIDE FACE	REQ'D	REQUIRED
C	CENTER LINE	E.F.	EACH FACE	IN.	INCHES	RM.	ROOM
Ø	DIAMETER	E.J.	EXPANSION JOINT	INFO.	INFORMATION	R.O.	ROUGH OPENING
L	ANGLE	EL.	ELEVATION	INSUL.	INSULATION	SCHED.	SCHEDULE
A.B.	ANCHOR BOLT	ELEV.	ELEVATION	LAV.	LAVATORY	SHR.	SHOWER
ABV.	ABOVE	EQU.	EQUAL	OP.	OPENING	SHT.	SHEET
ADJ.	ADJUSTABLE	E.S.	EACH SIDE	LT. WT.	LIGHT WEIGHT	SIM.	SIMILAR
A.F.F.	ABOVE FINISH FLOOR	E.W.	EACH WAY	MAINT.	MAINTENANCE	SPEC.	SPECIFICATION
ALUM.	ALUMINUM	EXIST.	EXISTING	MANUF.	MANUFACTURER	STC	SOUND TRANSMISSION COEFFICIENT
APPROX.	APPROXIMATE	EXPAN.	EXPANSION	MAX.	MAXIMUM	STD.	STANDARD
ARCH.	ARCHITECTURAL	EXT.	EXTERIOR	MAT.	MATERIAL	STIFF.	STIFFENER
A.S.T.M.	AMERICAN SOCIETY FOR TESTING MATERIALS	F.D.	FLOOR DRAIN	M.C.J.	MASONRY CONTROL JOINT	STR.	STRUCTURAL
D.B.A.	DEFORMED BAR ANCHOR	FDN.	FOUNDATION	MCHL.	MECHANICAL	SUPER.	SUPERVISOR
BD.	BOARD	F.E.C.	FIRE EXTINGUISHER CABINET	MFR.	MANUFACTURER	SUSP.	SUSPENDED
BLDG.	BUILDING	F.F.	FINISH FLOOR	MIN.	MINIMUM	THRU	THROUGH
B.M.	BENCHMARK	FIN.	FINISH	MISC.	MISCELLANEOUS	T.O.	TOP OF
B.O.	BOTTOM OF	FLR.	FLOOR	M.O.	MASONRY OPENING	T.O.A.	TOP OF ASPHALT
BOT.	BOTTOM	FT.	FEET	N.I.C.	NOT IN CONTRACT	T.O.C.	TOP OF CURB
B.P.	BASE PLATE	FIG.	FIGURING	NO.	NUMBER	T.O.F.	TOP OF FOOTING
BKG.	BEARING	GA.	GAGE/GAUGE	N.T.S.	NOT TO SCALE	T.O.S.	TOP OF SLAB OR SIDEWALK
BTWN.	BETWEEN	GAL.	GALLON	O.C.	ON CENTER	T.O.W.	TOP OF WALL
CER.	CERAMIC	GALV.	GALVANIZED	O.D.	OUTSIDE DIAMETER	TP.	TYPICAL
C.J.	CONSTRUCTION JOINT	GND.	GROUND	O.F.	OUTSIDE FACE	U.N.O.	UNLESS NOTED OTHERWISE
CLG.	CEILING	GWB.	GYPSUM WALL BOARD	O.H.	OVERHEAD	VCT	VINYL COMPOSITION TILE
CLR.	CLEAR	GYP. BD.	GYPSUM WALL BOARD	OHD	OVERHEAD DOOR	VERT.	VERTICAL
CMU	CONCRETE MASONRY UNIT	HT.	HEIGHT	OP.	OPPOSITE	VEST.	VESTIBULE
COL.	COLUMN	HW.	HARDWARE	OPQ.	OPPOSITE	VNR.	VENEER
CONC.	CONCRETE	H.W.	HOLLOW METAL	PART.	PARTITION	W/	WITH
CONT.	CONTINUOUS	H.M.	HOLLOW METAL	PL.	PLATE	WD.	WOOD
CONST.	CONSTRUCTION	HORIZ.	HORIZONTAL	PNTD.	PAINTED	W.W.F.	WELDED WIRE FABRIC
COORD.	COORDINATE	HR.	HOUR	PROT.	PROTECTION		
DBL.	DOUBLE	H.S.A.	HEADED STUD ANCHOR	P.S.F.	POUNDS PER SQUARE FOOT		
DEPT	DEPARTMENT	HT.	HEIGHT	P.S.I.	POUNDS PER SQUARE INCH		
DIA.	DIAMETER	HVAC	HEATING/VENTILATION/AIR CONDITIONING	QTY.	QUANTITY		
DTL.	DETAIL	HYD	HYDRANT	R.D.	ROOF DRAIN		
				RAD.	RADIUS		

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**MISCELLANEOUS GENERAL NOTES**

1. THE PROJECT MANUAL, UNDER SEPARATE COVER, IS AN INTEGRAL PART OF THESE CONSTRUCTION DRAWINGS.
2. PLANS, SECTIONS, ELEVATIONS, DETAILS AND DIMENSIONS LABELED "TYPICAL" SHALL APPLY TO ALL SITUATIONS OCCURRING THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY NOTED ON THE DRAWINGS.
3. ALL WORK, MATERIALS, AND METHODS SHALL BE IN CONFORMANCE WITH THE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION.
4. CONTRACTORS ARE RESPONSIBLE FOR ALL WORK REGARDLESS OF THE LOCATION OF THE WORK AS NOTED ON THE DOCUMENTS.
5. KEEP SITE CLEAN AND CLEAR OF DEBRIS AND IN ORDERLY CONDITION THAT DOES NOT DETRACT FROM THE SURROUNDING SITE AND REPAIR ANY DAMAGE CAUSED BY WORK OF THE CONTRACT.
6. INSTALL SEALANT AT EXTERIOR SIDE OF ALL JOINTS, SEAMS, CONNECTIONS OR OPENINGS WHICH WOULD ALLOW WATER OR AIR INFILTRATION EXCEPT AS NOTED OTHERWISE. SEALANT COLOR TO MATCH ADJACENT SURFACE. COLOR REQUIRES ARCHITECTS APPROVAL.
7. ALL SPECIAL ACCESSIBLE FACILITIES SHALL BE IDENTIFIED WITH APPROVED SIGNAGE.
8. THE CONTRACTOR IS RESPONSIBLE FOR PRODUCING A WEATHER TIGHT BUILDING. DETAILS AND OMISSIONS TO DRAWINGS NOTWITHSTANDING. ALL DRAWING CONFLICTS WHICH MAY NOT ALLOW A WEATHER TIGHT CONDITION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CONTRACTOR SHALL SUBMIT SPECIFIC DISCREPANCIES FOR ARCHITECT REVIEW.
10. PROVIDE FULL METAL BACKING PLATE (16 GAUGE X 6" HIGH SECURED TO 3 STUDS MIN.) OR WOOD BLOCKING AS REQUIRED TO SECURELY ANCHOR ALL WALL MOUNTED EQUIPMENT (CABINETS, TOILET ROOM ACCESSORIES, HARDWARE, ETC.). BLOCKING SHALL PROVIDE A RIGID CONNECTION CAPABLE OF SUPPORTING DESIGN LOADS. PROVIDE A 1/2" GAUGE X 6" STL. STUD/TRACK SECURED TO 2 STUDS TO SECURELY SUPPORT ALL WALL STOPS (DOOR BUMPER).
11. COORDINATE WITH ALL TRADES, SIZES AND LOCATIONS OF ALL OPENINGS FOR MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT, EQUIPMENT PADS OR BASES, AS WELL AS ELECTRIC POWER, WATER, AND DRAIN INSTALLATIONS, BEFORE PROCEEDING WITH WORK. CONTRACTOR SHALL PROVIDE COORDINATION DRAWINGS FOR PROPER PLACEMENT OF ALL TRADES' WORK. ANY CONCERNS, SPACE LIMITATIONS OR STRUCTURAL CONFLICTS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. A REASONABLE RESPONSE TIME SHALL BE ALLOWED AS NOTED IN THE SPECIFICATIONS.
12. ALL FLOOR OR WALL OPENINGS REQUIRED FOR PIPES, DUCTS, CONDUITS, ETC. SHALL BE SEALED IN AN APPROVED MANNER.
13. FIRE SPRINKLER DESIGN TO BE DONE BY A CERTIFIED SUB-CRONTACTOR PRIOR TO SUBMITTAL TO ARCHITECT. SUBMITTAL TO THE ARCHITECT ALSO INDICATES THAT THE CONTRACTOR HAS REVIEWED AND COORDINATED FIRE-SPRINKLER PIPING LOCATIONS WITH ALL TRADES.
14. ROOMS ENCLOSED WITH RATED WALLS REQUIRE RATED DOORS. ANY DUCTS PASSING THROUGH WALLS REQUIRE FIRE DAMPERS AND OR FIRE/SMOKE DAMPERS. ANY CONDUIT OR PIPING REQUIRES RATED SEALANT AT JOINTS.
15. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE AND LOCATE ELECTRICAL DATA AND PHONE RECEPTACLES, SWITCHES, ETC. TO AVOID CASEWORK DOORS, ETC.
16. THE DRAWINGS AND SPECIFICATIONS INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF THE ARCHITECTURAL AND STRUCTURAL DESIGN CONCEPT. THE DIMENSIONS OF THE BUILDING, THE TYPE OF STRUCTURAL, MECHANICAL, ELECTRICAL AND UTILITY SYSTEMS AND MAJOR ARCHITECTURAL ELEMENTS OF CONSTRUCTION AS "SCOPE" DOCUMENTS.
17. THE DRAWINGS AND SPECIFICATIONS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR THE FULL PERFORMANCE AND COMPLETION OF THE WORK. CONTRACTS SHALL BE LET ON THE BASIS OF SUCH DOCUMENTS, WITH THE UNDERSTANDING THAT THE CONTRACTOR IS TO FURNISH ALL ITEMS REQUIRED FOR PROPER COMPLETION OF THE WORK WITH OUT ADJUSTMENT TO CONTRACT PRICE. IT IS INTENDED THAT THE WORK TO BE OF SOUND AND QUALITY CONSTRUCTION AND THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE INCLUSION OF ADEQUATE AMOUNTS TO COVER INSTALLATION OF ALL ITEMS INDICATED, DESCRIBED OR REASONABLY IMPLIED.



Seal

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SAA Project No. 219010  
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**GENERAL INFORMATION**

Sheet Number

**G1002**

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**CHALLENGER PALLETS**  
**WEBER COUNTY INDUSTRIAL PARK**  
 APPROX. 2150 N. 1175 W., WEBER COUNTY, UTAH

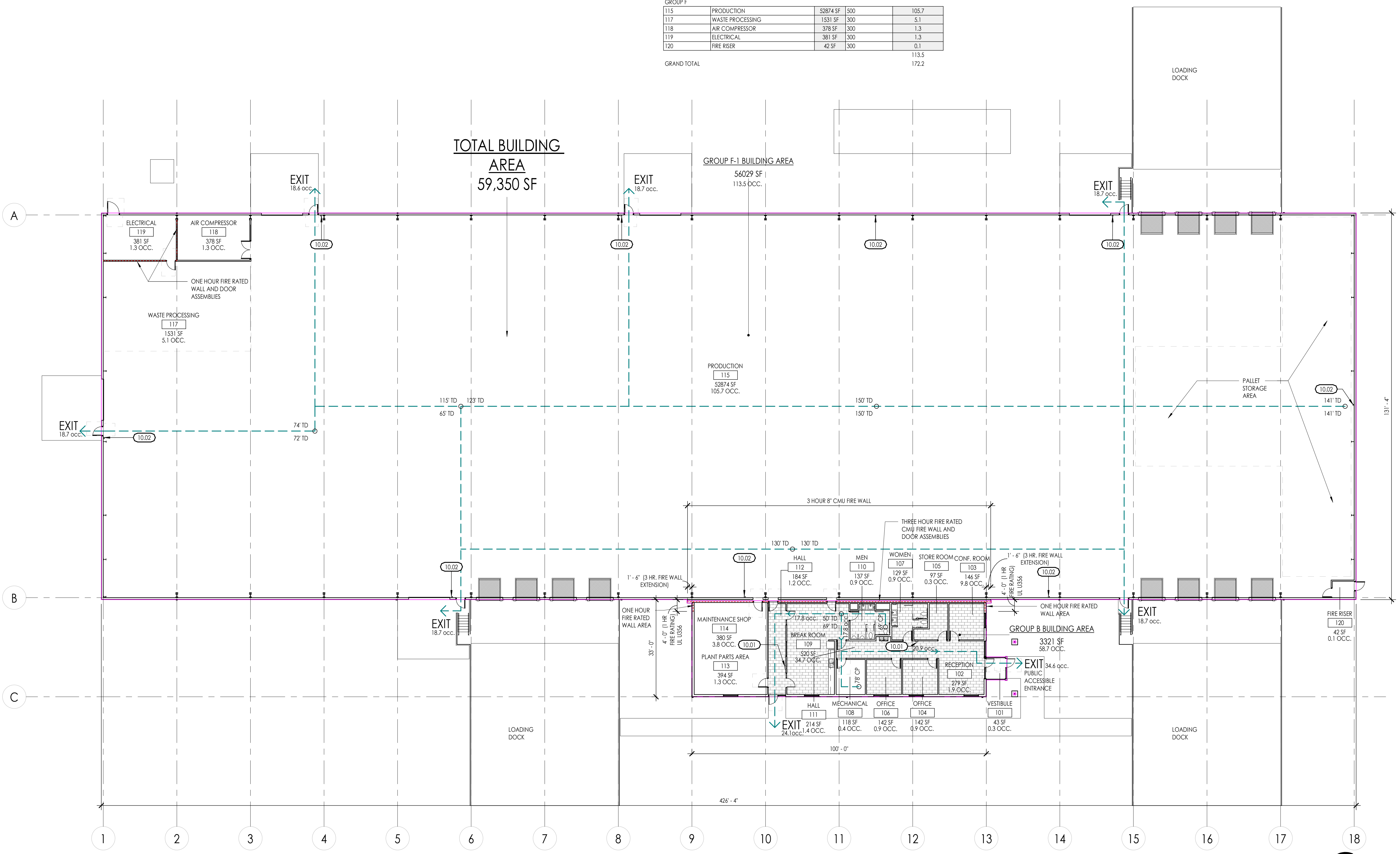
OCCUPANCY LOAD CALCULATION PER 2018 IBC TABLE 1004.1.1				
NUMBER	NAME	AREA	S.F. PER PERSON	# OF OCCUPANTS
<b>GROUP B</b>				
101	VESTIBULE	43 SF	150	0.3
102	RECEPTION	279 SF	150	1.9
103	CONF. ROOM	146 SF	15	9.8
104	OFFICE	142 SF	150	0.9
105	STORE ROOM	97 SF	300	0.3
106	OFFICE	142 SF	150	0.9
107	WOMEN	129 SF	150	0.9
108	MECHANICAL	118 SF	300	0.4
109	BREAK ROOM	520 SF	15	34.7
110	MEN	137 SF	150	0.9
111	HALL	214 SF	150	1.4
112	HALL	184 SF	150	1.2
113	PLANT PARTS AREA	394 SF	300	1.3
114	MAINTENANCE SHOP	380 SF	100	3.8
				58.7
<b>GROUP F</b>				
115	PRODUCTION	52874 SF	500	105.7
117	WASTE PROCESSING	1531 SF	300	5.1
118	AIR COMPRESSOR	378 SF	300	1.3
119	ELECTRICAL	381 SF	300	1.3
120	FIRE RISER	42 SF	300	0.1
				113.5
<b>GRAND TOTAL</b>				172.2



Section  
Consultant

**TOTAL BUILDING AREA**  
59,350 SF

**GROUP F-1 BUILDING AREA**  
56,029 SF  
113.5 OCC.



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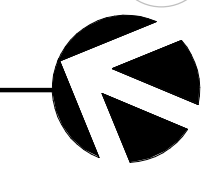
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**CODE SUMMARY PLAN**

Sheet Number  
**G1003**

CODE SUMMARY PLAN  
1/16" = 1'-0"



**CODE ANALYSIS**

**APPLICABLE CODES:**

2018	IBC	International Building Code
2018	IFC	International Fire Code
2018	IPC	International Plumbing Code
2018	IMC	International Mechanical Code
2018	IFGC	International Fuel Gas Code
2017	NEC	National Electrical Code
2018	IECC	International Energy Conservation Code
2017	ANSI	ICC/ANSI A117.1 & Utah State/Local Amendments

**GENERAL CODE INFORMATION**

**Construction Type:** IIB for F-1 Occupancy Area  
 VB for B Occupancy Area  
**Building Area:** (Refer to Section 506 below)  
**Single Occupancy – One Story Building:** (Refer to Section 508 below)  
**Automatic Fire Sprinkler System:** Meet NFPA 13 (Refer to Chapter 9 below)

**ZONING INFORMATION – WEBER COUNTY**

**Zone:** M-1, Manufacturing  
**Maximum building height:** None  
**Front Yard Setback:** 30' for streets less than 80 feet; 50 feet on streets 80 feet or more in width  
**Lot Coverage:** Not over 80%

**Chapter 3 USE AND OCCUPANCY CLASSIFICATION**

304	Business	Offices	B	3,321 sf
306	Factory	Pallet Fabrication	F-1	56,029 sf
<b>Total Main Floor Area =</b>				<b>59,350 sf</b>

**Chapter 5 GENERAL BUILDING HEIGHTS AND AREAS**

**504 Building Height & Number of Stories**

Table 504.3 Allowable Building Height in Feet Above Grade Plane

Occupancy Group	B (S)
Construction Type	Type VB
Allowable Height	60 feet
Proposed Design Height	32'-0" Feet above grade plane

Occupancy Group	F-1 (S)
Construction Type	Type IIB
Allowable Height	75 feet
Proposed Design Height	32'-0" Feet above grade plane

**506 Building Area**

Table 506.2 Allowable Area Factor in Square Feet

Occupancy Classification	B (S1)	Construction Type VB	36,000 sf
	F-1 (S1)	Construction Type IIB	62,000 sf

506.2.1 Single Occupancy, One Story Buildings  
 (Fire Wall separating occupancies) Area increase not required  
**Group B Area** 3,321 Square Feet ( ≤ 36,000 sf Building Area Acceptable)  
**Group F-1 Area** 56,029 Square Feet ( ≤ 62,000 Building Area Acceptable)

**Chapter 6 Types of Construction**

Table 601 Fire-Resistance Rating Requirements for Building Elements (Hours)

Construction Type	IIB	VB
Primary Structural Frame	0	0
Bearing Walls - Exterior	0	0
Bearing Walls - Interior	0	0
Exterior Non-bearing Walls & Partitions	Refer to Table 602	Refer to Table 602
Interior Non-bearing Walls & Partitions	0	0
Floor Construction & Associated Secondary Members	0	0
Roof Construction & Associated Secondary Members	0	0

Table 602 Fire-Resistance Rating Req'ts for Exterior Walls Based on Fire Separation Distance

Construction Type IIB	Occupancy Group	B (VB)
Fire Separation Distance = x (ft)	Groups F-1 (IIB)	
X < 5	2	1
5 ≤ X < 10	1	1
10 ≤ X < 30	0	0
X ≥ 30	0	0

**Chapter 7 Fire and Smoke Protection Features**

**704 Fire-Resistance of Structural Members**  
 704.1 Requirements (Not Applicable)

**705 Exterior Walls**  
 705.8.1 Allowable Area of Openings

Table 705.8.1 Max. Area of Exterior Wall Openings Based on Fire Separation Distance and Degree of Opening Protection

Opening Protection	Unprotected (S)	Not Permitted
0 < X < 3	Unprotected (S)	15%
3 ≤ X < 5	Unprotected (S)	25%
5 ≤ X < 10	Unprotected (S)	45%
10 ≤ X < 15	Unprotected (S)	75%
15 ≤ X < 20	Unprotected (S)	No Limit
20 ≤ X < 25	Unprotected (S)	No Limit

705.11 Parapets  
 Exception 1 Shall be provided on exterior walls of buildings. Parapet is not required when the wall is not required to be fire-resistance rated.  
 Exception 6 Parapet not required when wall is permitted to have not less than 25 percent of the exterior wall areas containing unprotected openings based on fire separation distance as determined in accordance with Section 705.8

**706 Fire Walls**  
 706.2 Structural Stability Fire Walls shall be designed and constructed to allow collapse of the structure on either side without collapse of the wall under fire conditions.

Table 706.4 Fire Wall Fire-Resistance Ratings

Group	Fire Resistance Rating (hours)
B	3 (Type VB permitted to be 2 hour)
F-1	3

706.5 Horizontal continuity Fire Walls shall be continuous from exterior wall to exterior wall and shall extend not less than 18 inches beyond exterior surfaces of walls.

706.5.1 Exterior walls Where the fire wall intersects exterior walls, the fire resistance rating and opening protection of the exterior walls shall comply with one of the following:  
 1. Exterior walls on both sides of the fire wall shall have a 1-hour fire resistive rating with a 3/4 hour protection where opening protection is required by Section 705.8. The fire rating shall extend not less than 4 feet on each side of the intersection of the fire wall.  
 2. Buildings or spaces on both sides of the intersecting fire wall shall assume to have an imaginary lot line at the fire wall and extending beyond the exterior of the fire wall. The location of the assumed line in relation to the exterior walls and the fire wall shall be such that the exterior wall and opening protection meet the requirements set forth in Sections 705.5 and 708.8.

706.6.1 Stepped Buildings Where a fire wall serves as an exterior wall for a building and separates buildings having different roof levels, such wall shall terminate at a point not less than 30 inches above the lower roof level, provided the exterior wall for a height of 15 feet above the roof is not less than 1-hour fire resistive rated construction from both sides with opening protection by fire assemblies having a fire protection rating of not less than 3/4-hour.

706.8 Openings Each opening through a fire wall shall be protected in accordance with Section 716. The aggregate width of the openings shall not exceed 25% of the length of the wall.

**707 Fire Barriers**  
 707.3.1 Shaft Enclosures 1 Hour Comply with Section 713.4  
 707.3.2 Interior Exit Stairway 1 Hour Comply with Section 1023.1  
 707.3.3 Exit Access Stairway 1 Hour Comply with Section 713.4  
 707.3.4 Exit Passageway 1 hour Comply with Section 1024.3  
 707.3.5 Horizontal Exit 2 Hour Comply with Section 1026.1  
 707.3.7 Incidental Uses As Req'd Comply with Table 509  
 707.3.8 Control Areas As Req'd Comply with Section 414.2.4

707.4 Exterior Walls Where exterior walls serve as a part of a required fire-resistance-rated shaft or stairway, or separation, such as walls shall comply with the requirements of Section 705 for exterior walls and the fire-resistance-rated enclosure or separation requirements shall not apply.  
 Exception: Exterior walls required to be fire-resistance-rated in Section 1021 for exterior exit balconies, Section 1037.7 for interior exit stairways and ramps, and Section 1027.6 for exterior exit stairways and ramps.

707.5 Continuity Fire Barriers shall extend from the foundation or floor/ceiling assembly below to the underside of a floor or roof sheathing above or to fire-resistance rated floor/ceiling or roof/ceiling assemblies. Shafts shall be continuous through concealed spaces. Joints and voids at intersections shall comply with Sections 707.8 and 707.9  
 Exception 1: Shaft enclosures shall be permitted to terminate at top enclosure complying with Section 713.12.  
 Exception 2: Interior exit stairway enclosures required by Section 1023 shall be permitted to terminate at top enclosure complying with Section 713.12.

**708 Fire Partitions**  
 708.3 Fire-resistance Rating for Corridor Walls Group B & F Corridor walls are not required to be have a fire-resistance rating by Table 1020.1 with a fire sprinkler system.

708.4 Continuity Fire Partitions shall extend from the top of the foundation or floor/ceiling assembly below and be securely attached to one of the following:  
 1. The underside of a floor or roof sheathing, deck or slab above.  
 2. The underside of a floor/ceiling or roof/ceiling assembly having a fire-resistance rating that is not less than the fire-resistance rating of the fire partition.

708.6 Openings Fire Partitions shall be protected per Section 716.

708.7 Penetrations Fire Partition penetrations shall be comply with Section 714.

708.8 Joints Fire Partition joints shall comply with Section 715.

708.9 Ducts & Transfer Openings Fire Partition penetrations by ducts and air transfer openings shall comply with Section 717.

**711 Floor & Roof Assemblies**  
 711.2.2 Continuity Assemblies shall be continuous without vertical openings, except as permitted by Section 712.

711.2.3 Supporting Construction The supporting construction shall be protected to afford the required fire-resistance rating of the horizontal assembly.

**712 Vertical Openings**  
 712.1.1 Shaft Enclosures Vertical openings contained entirely within a shaft enclosure meeting Section 713

**714 Penetrations**  
 714.4.2 Membrane Penetrations Penetrations shall be sealed to meet Section 714.4.1 for fire-resistance rated assembly.

**Chapter 8 Interior Finishes**

**803 Wall & Ceiling Finishes**

Table 803.13 Interior Wall & Ceiling Finish Requirements By Occupancy

Group	Exit Stairways, Ramps & Exit Passageways	Corridors & enclosure for exit access stairways	Rooms & enclosed spaces
Group B (S)	Class B	Class C	Class C
Group F (S)	Class C	Class C	Class C

**Chapter 9 Fire Protection Systems**

**903 Automatic Sprinkler Systems**  
 903.2.4 Group F-1 A Group F-1 fire area exceeds 12,000 sf, an Automatic sprinkler system shall be provided.

903.3.1 NFPA 13 Automatic sprinkler system to be provided.

903.4.1 Monitoring Alarm, supervisory & trouble signals shall be distinctly different & shall be automatically transmitted to an approved supervising system.  
 903.4.2 Alarms Exterior approved audible device shall be connected to the automatic sprinkler system and actuate when sprinkler system is activated.

**905 Standpipe Systems**  
 905.1 General Standpipe systems are required in new construction.

905.2 Installation Standard Standpipe systems shall be installed as per Section 905 & NFPA 14. Fire department connections shall be installed per Section 912.

**906 Portable Fire Extinguishers**  
 906.1 Group B & F Portable fire extinguishers shall be installed as required in Section 906

**Chapter 10 Means of Egress**

1004.1 Occupant Load (Refer to Occupancy Load Calculation per IBC 2018 Table 1004.5 located on drawing G1003 for Total Occupancy Load)

**1005 Means of Egress Sizing**

1005.3.2 Other Egress 0.2 inches x Occupant  
Doors 101A:  
 34.6 Occupants  
 7.0 inches required (32 inch door clearance provided)  
Door 112A:  
 24.1 Occupants  
 8.2 inches required (32 inch door clearance provided)  
Door 115K:  
 18.6 Occupants  
 3.8 inches required (32 inch door clearance provided)  
Doors: 115E, 115G, 115L, 115N, 115Y:  
 18.7 Occupants each  
 3.8 inches required (32 inch door clearance provided)

**1006 Number of Exits and Access Doorways**

1006.2.1 Egress based on Occupant Load and Common Path of Egress Distance Two exits, or exit access doorways, from any space shall be provided where the Design Occupancy Load or the Common Path of Egress Travel distance exceeds the values listed in Table 1006.2.1

Table 1006.2.1 Spaces with One Exit or Exit Access Doorway

Occupancy:	Max. Occupant Load of Space	With Sprinkler System
B	49	100 feet
F	49	100 feet

Table 1006.3.2 Min. Number of Exits or Access to Exits per Story

Occupant Load per Story	Min. Number of exits or Access to Exits from a Story
1-500	2
501-1000	3
More than 1000	4

**1009 Accessible Means of Egress**

1009.1 # of Required Accessible Means of Egress is Req'd Not less than one accessible means of egress is required, or not less than Two where more than one accessible means of egress is required.

1009.2 Continuity Each required accessible means of egress shall be continuous to a public way.

Accessible Routes Comply with Section 1104  
 Interior Exit Stairways Comply with Section 1009.3 & 1019.4  
 Exit Access Stairways Comply with Section 1009.3 & 1019.3 or 1019.4  
 Exterior Exit Stairways Comply with Section 1009 & 1027  
 Elevators Comply with Section 1009.4  
 Horizontal Exits Comply with Section 1026  
 Ramps Comply with Section 1012

1009.3 Stairways Exception 2: Clear width of 48 inches between handrails for accessible stairways is not required with automatic fire sprinklers installed.

**1011 Stairways**

1011.2 Width & Capacity The required capacity of stairways shall be determined as specified in Section 1005.1 but not less than 44 inches min. required, or as indicated in Section 1009.3  
 Exception 1. Stairways serving an occupant load of less than 50 shall have a width of not less than 36 inches.

**1017 Exit Access Travel Distance**  
 Table 1017.2 Occupancy Distance with sprinkler system  
 Group B 300 feet  
 Group F 250 feet

**1020 Corridors**

Table 1020.1 Corridor Fire-Resistance Rating

Occupancy	Occupant Load Served by Corridor	Required Fire Resistance Rating w/ Sprinklers
Group B, F	Greater than 30	Not Required

Table 1020.2 Minimum Corridor Width

Occupancy	Minimum Width (inches)
Any facilities not listed below	44 inches
Occupant load less than 50	36 inches

1020.4 Dead Ends Exception 2: Where more than one exit is required, and equipped with a sprinkler system, length of any dead end corridor shall not exceed 50 feet.

**Chapter 11 ACCESSIBILITY**

**1104 Accessible Route**  
 1104.1 Site Arrival Points At least one accessible route within the site shall be provided from public transportation stops, accessible parking, accessible loading zones, and public streets or sidewalks to the accessible entrance served.

1104.3 Connected Spaces Accessible buildings shall have at least one accessible route to each portion of the building, to accessible building entrances connecting accessible pedestrian walkways and to the public way.

1104.4 Multistory Buildings and Facilities At least one accessible route shall connect each accessible story, mezzanine & occupied roofs on multilevel buildings and facilities.

**1105 Accessible Entrances**  
 1105.1 Public Entrances At least 60% of all public entrances shall be accessible.

**Chapter 12 Interior Environment**

1207.2 Minimum Ceiling Heights Occupiable spaces, habitable spaces and corridors shall have a ceiling height of not less than 7'-6". Bathrooms, toilet rooms, kitchens, storage rooms and laundry rooms shall have a ceiling height of not less than 7 feet.  
 Exception 3 The height of mezzanines and spaces below mezzanines shall be in accordance with Section 505.2.

1207.2.1 Furred Ceiling Any room with a furred ceiling shall be required to have the minimum ceiling height in two-thirds of the area thereof, but in no case shall the height of the furred-ceiling be less than 7 feet.

**Chapter 15 Roof Assemblies and Rooftop Structures**

**1505 Fire Classification** Table 1505.1: Type IIB = Class B Roof Covering  
 Type VB = Class C Roof Covering

**Chapter 29 Plumbing Fixtures**

Table 2902.1 Min. Number of Plumbing Fixtures

Group B Office		58.7 Occupants (30 Men – 30 Women)
Water Closets	Men	Women
	1/25 to 50, 1/50 beyond (1.2 required)	1/25 to 50, 1/50 beyond (1.2 required)
Lavatories	1/40 to 30, 1/80 beyond (0.8 required)	1/40 to 30, 1/80 beyond (0.8 required)
Drinking Fountain	1/100 (0.6 required)	
Service Sink	(1 required)	
Group F-1 Factory		113.5 Occupants (57 Men – 57 Women)
Water Closets	Men	Women
	1/100 (0.6 required)	1/100 (0.6 required)
Lavatories	1/100 (0.6 required)	1/100 (0.6 required)
Drinking Fountain	1/400 (0.3 required)	
Service Sink	(1 required)	
Total Proposed Plumbing Fixtures		
Water Closets/Urinals	Men	Women
	1.4 required (4 provided)	1.4 required (2 provided)
Lavatories	1.4 required (2 provided)	1.4 required (2 provided)
Drinking Fountain	0.9 required (2 drinking fountains provided)	
Service Sink	1 required (1 provided)	



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Revision

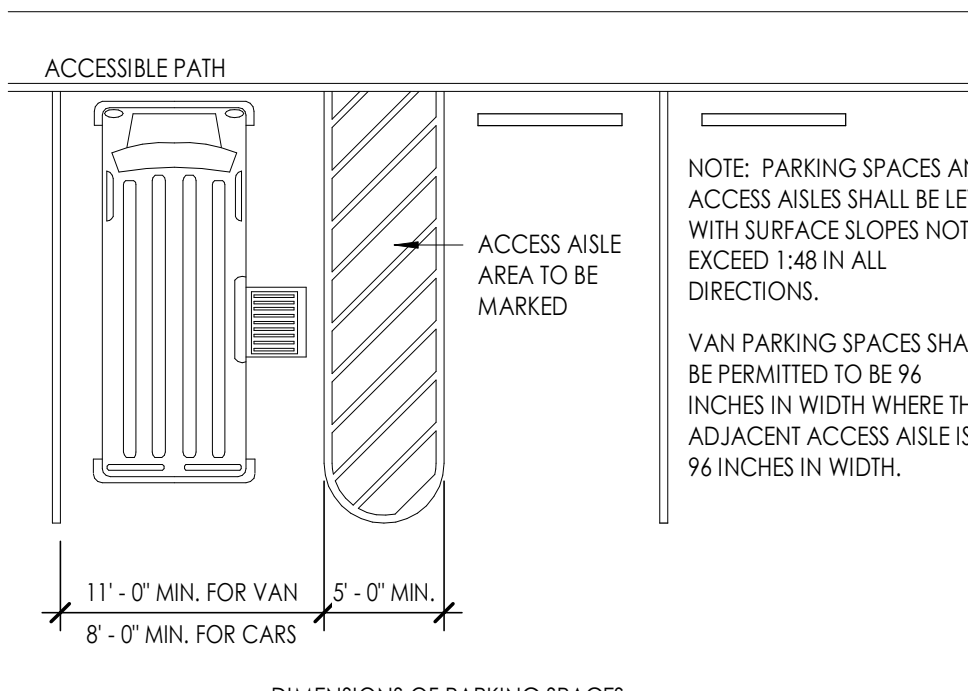
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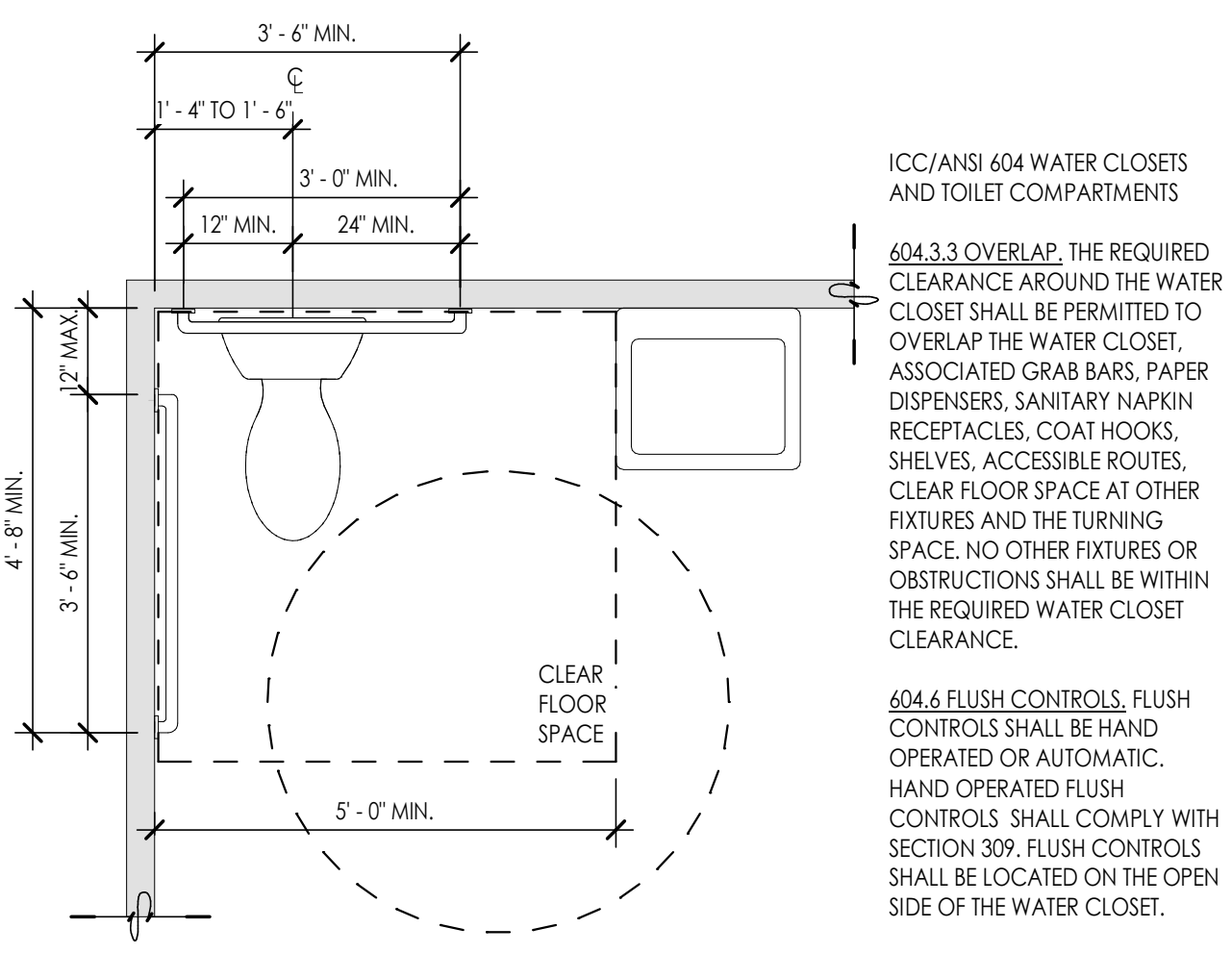
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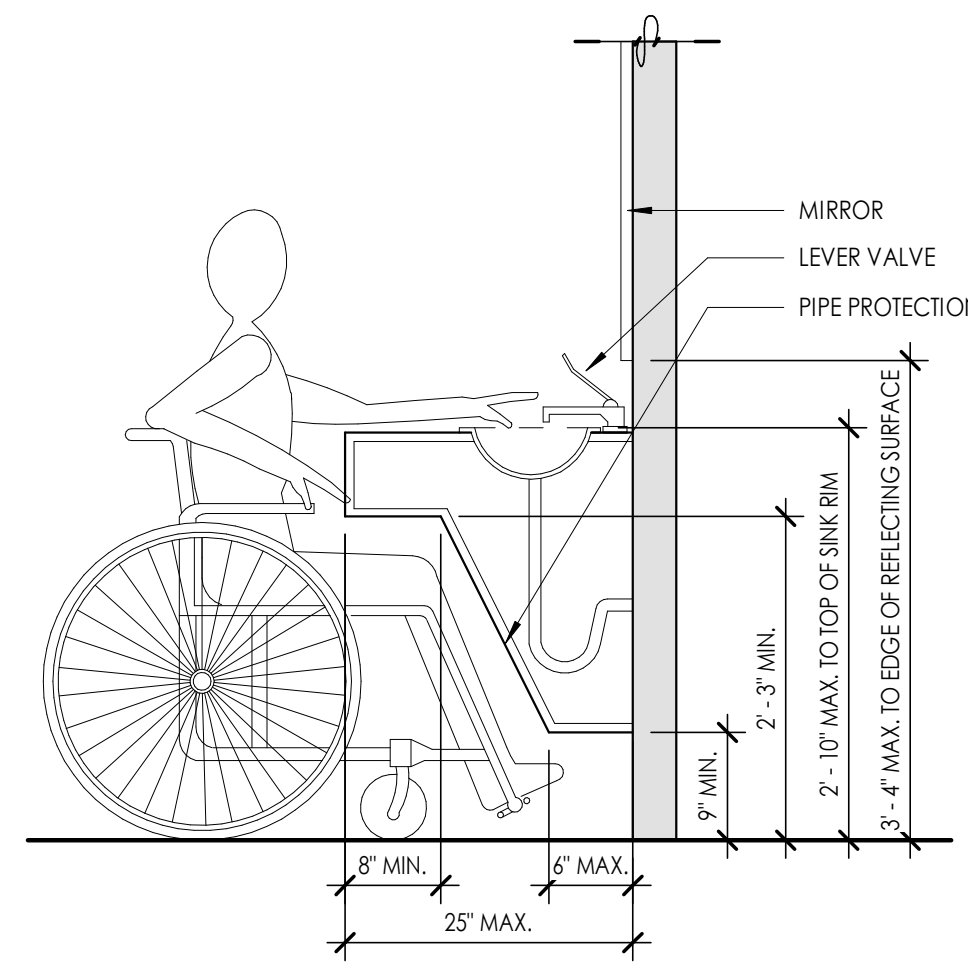
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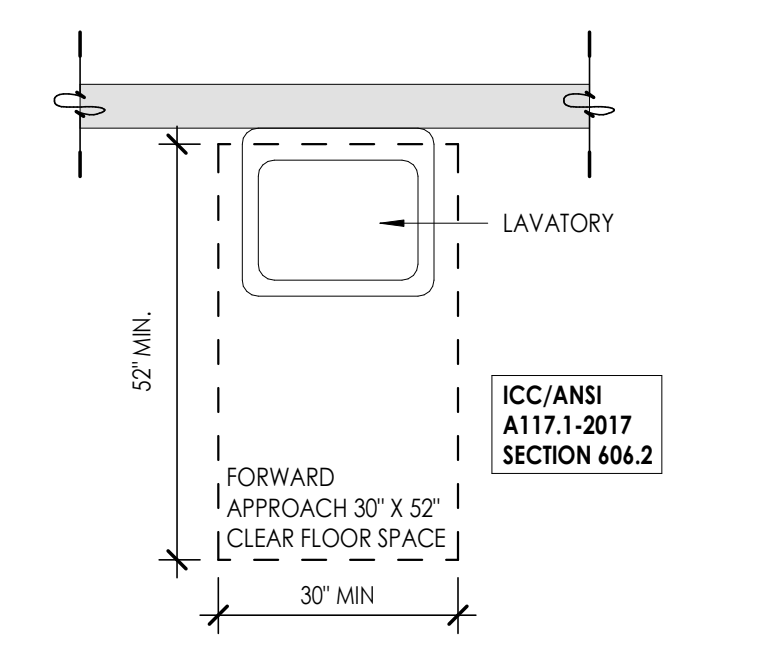
**D1 ACCESSIBLE PARKING SPACES**  
1/8" = 1'-0"



**D2 WATER CLOSET - CLEAR FLOOR SPACE**  
1/2" = 1'-0"



**D3 LAVATORY REQUIREMENTS**  
3/4" = 1'-0"

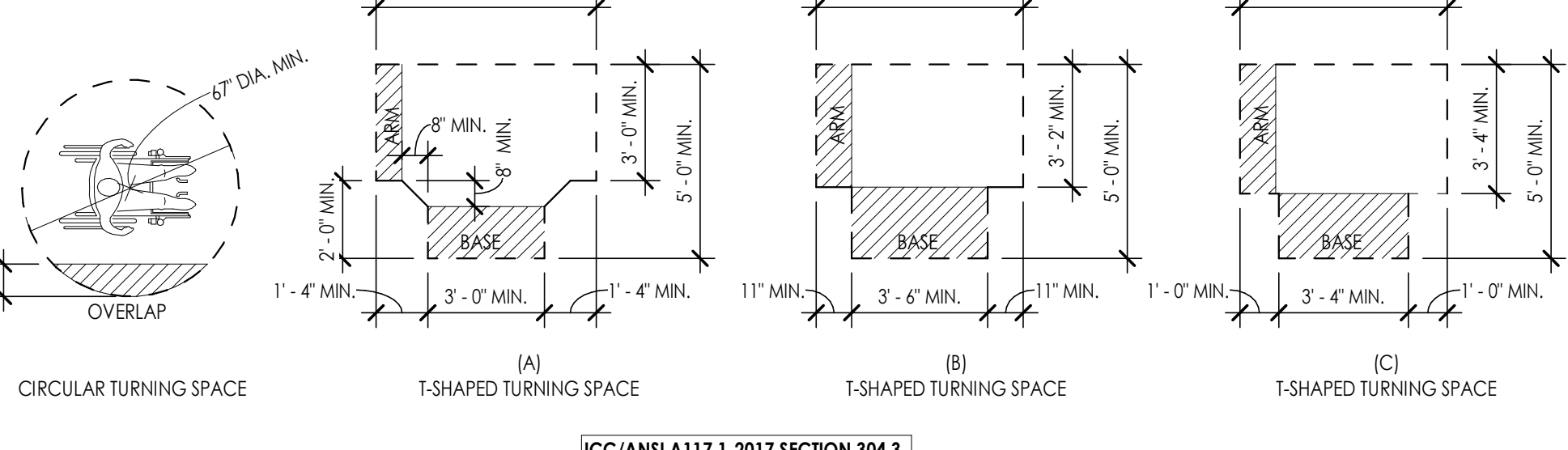


**D4 LAVATORY CLEAR FLOOR SPACE**  
1/2" = 1'-0"

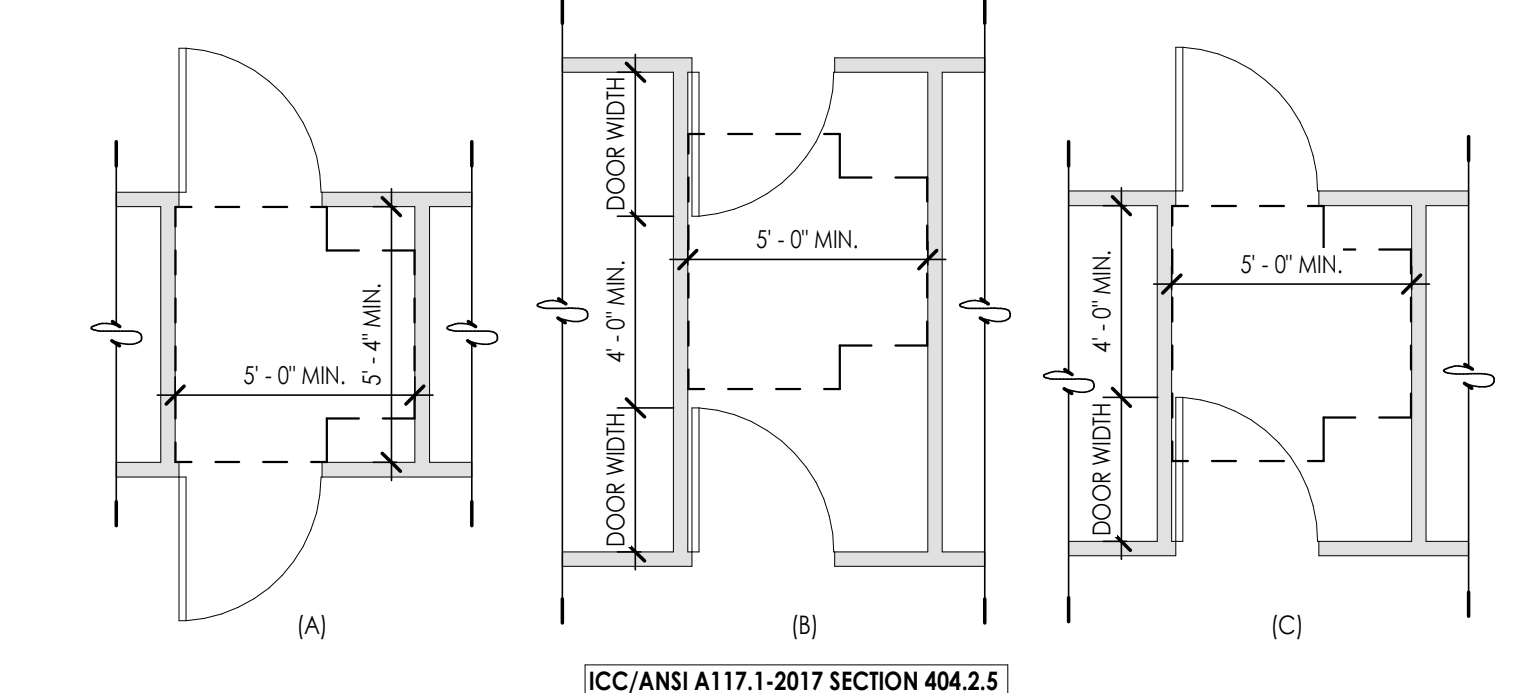
**IBC TABLE 1106.1**

TOTAL PARKING SPACES PROVIDED	REQUIRED MINIMUM NUMBER OF ACCESSIBLE SPACES
1 TO 25	1
26 TO 50	2
51 TO 75	3
76 TO 100	4
101 TO 150	5
151 TO 200	6
201 TO 300	7
301 TO 400	8
401 TO 500	9
501 TO 1000	2% OF TOTAL
1001 AND OVER	2% PLUS ONE FOR EACH 100, OR FRACTION THEREOF, OVER 1000

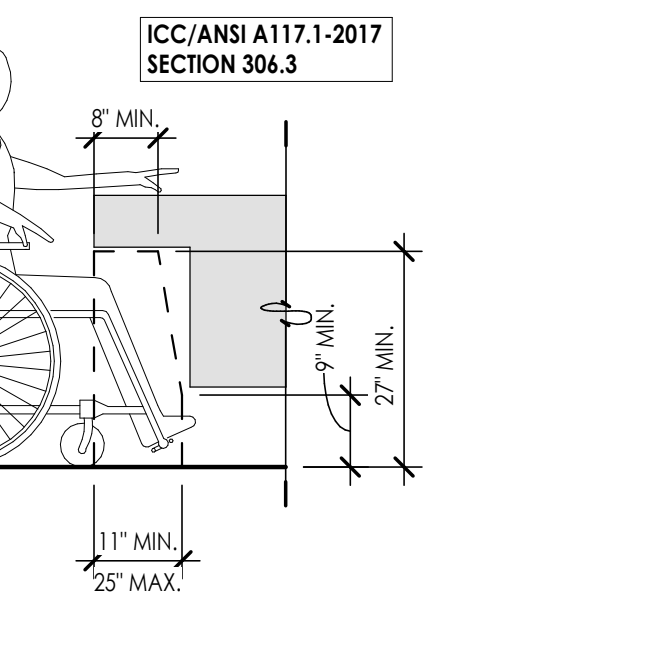
**C1 ACCESSIBLE PARKING SPACES - TABLE**  
12" = 1'-0"



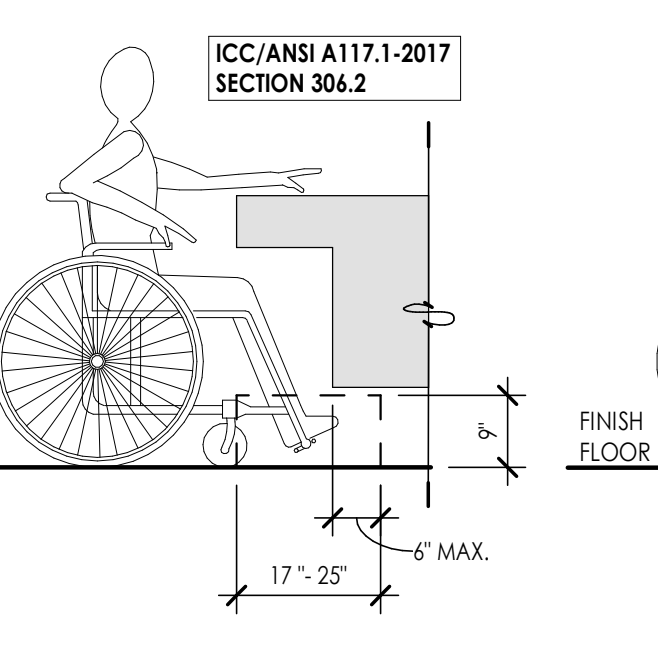
**C2 ACCESSIBLE TURNING SPACE**  
1/4" = 1'-0"



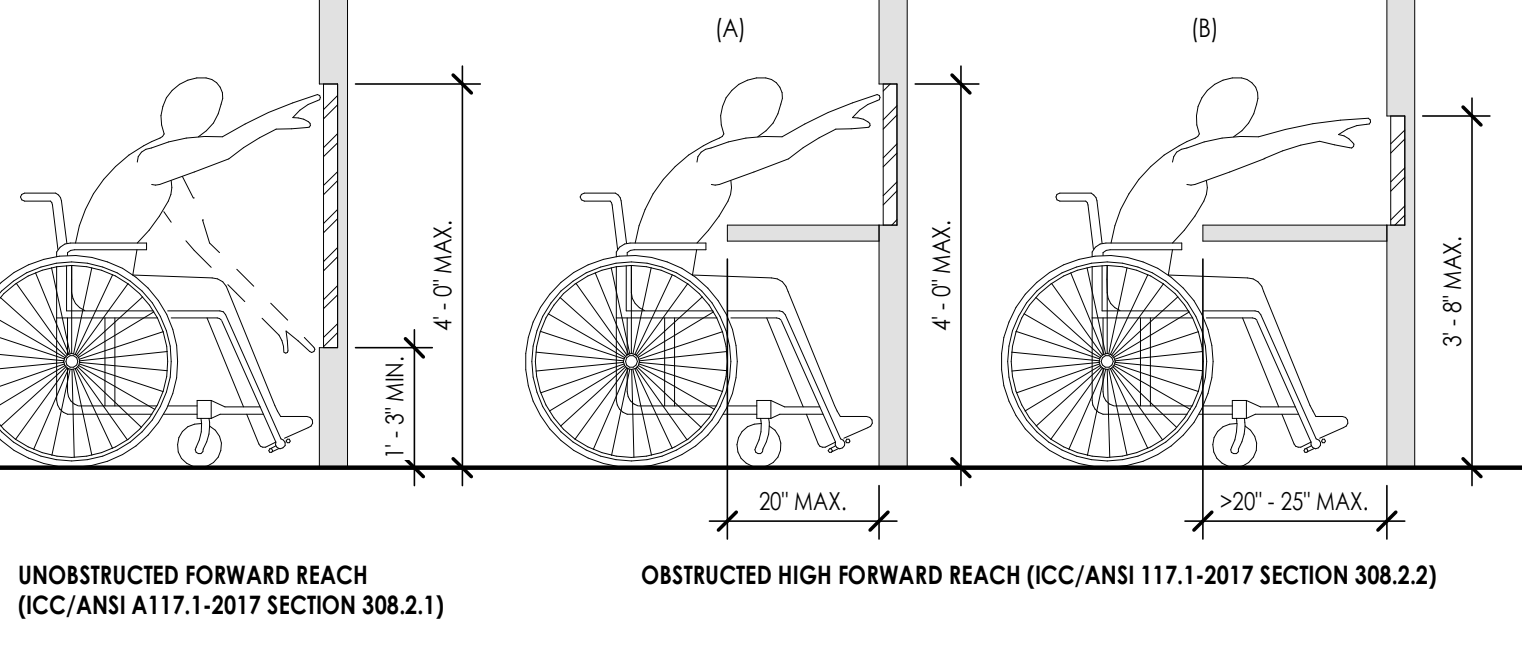
**C3 VESTIBULE MANEUVERING DETAILS**  
1/4" = 1'-0"



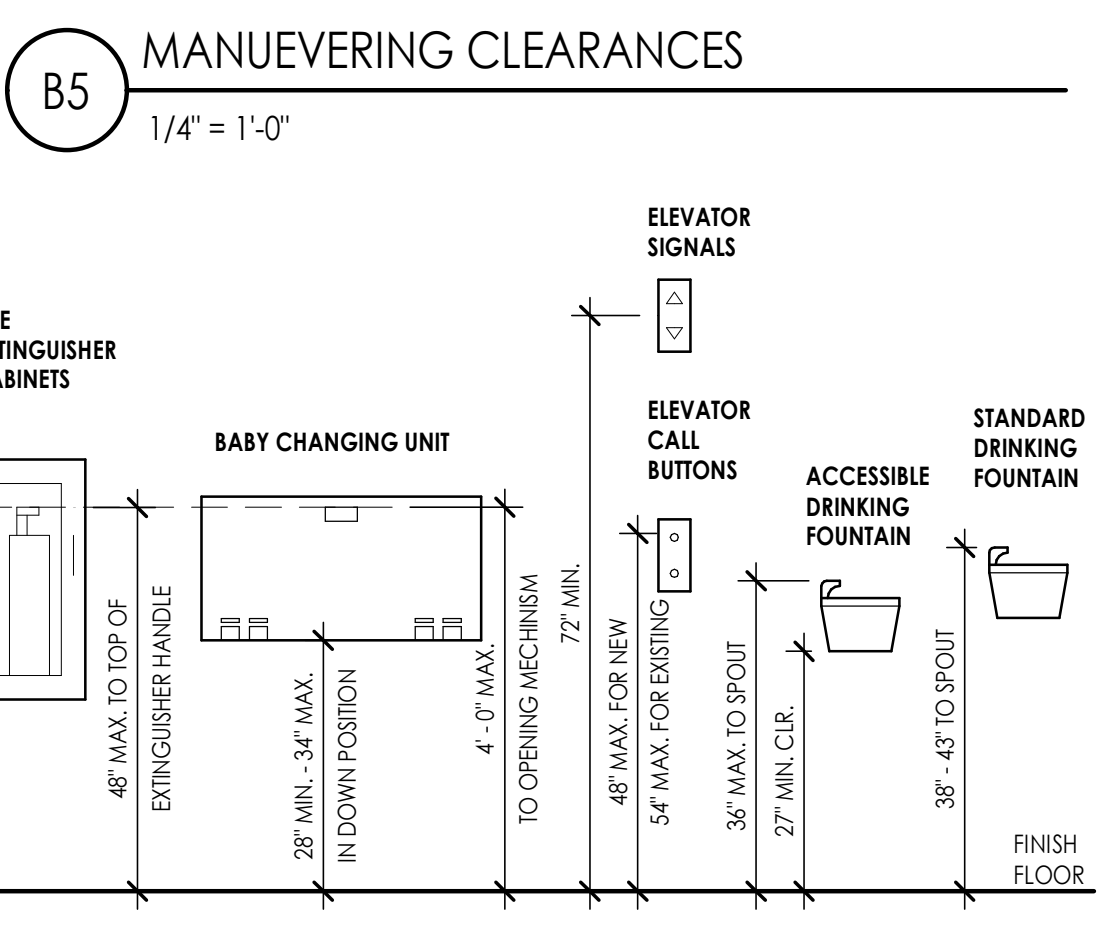
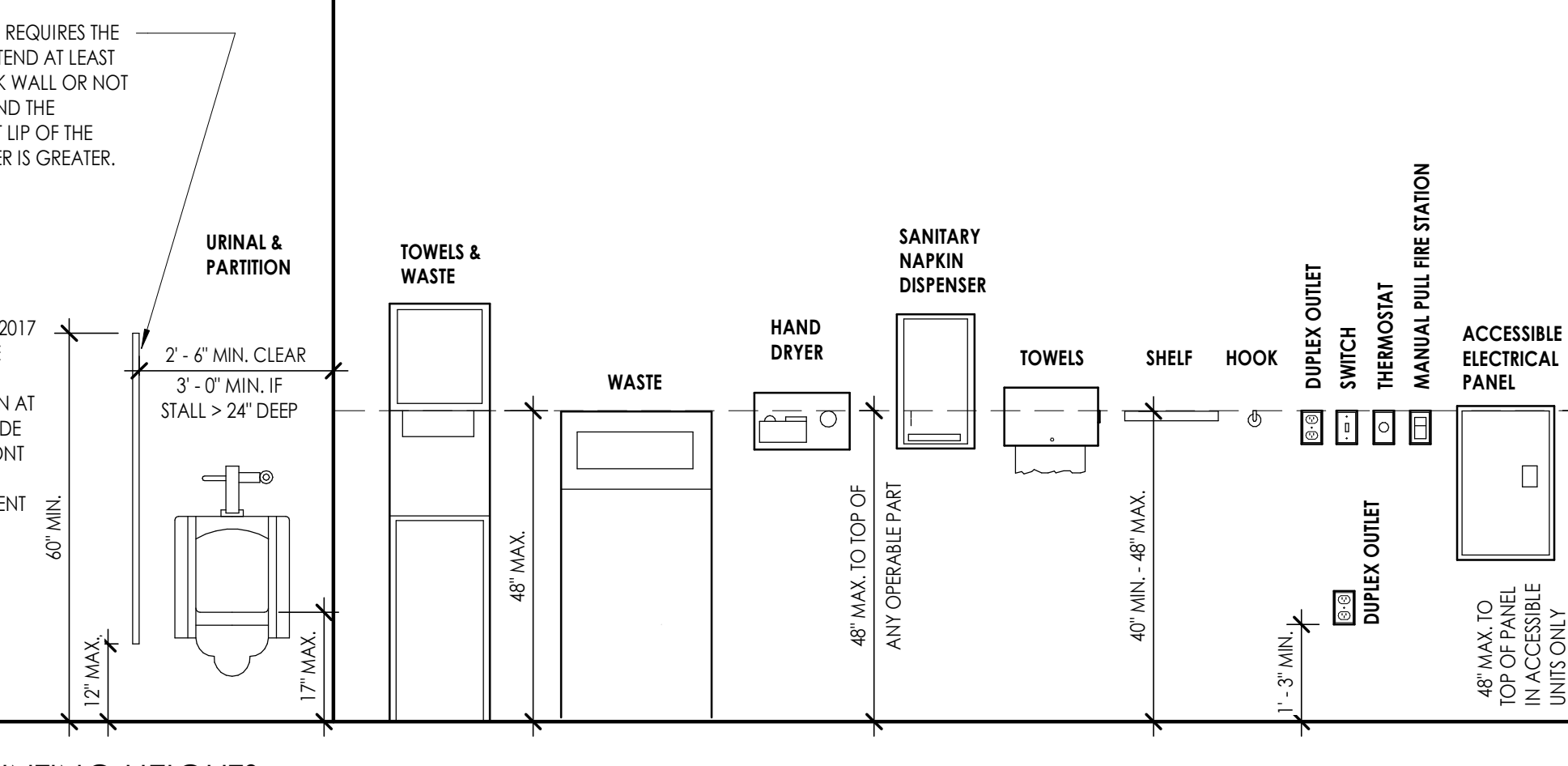
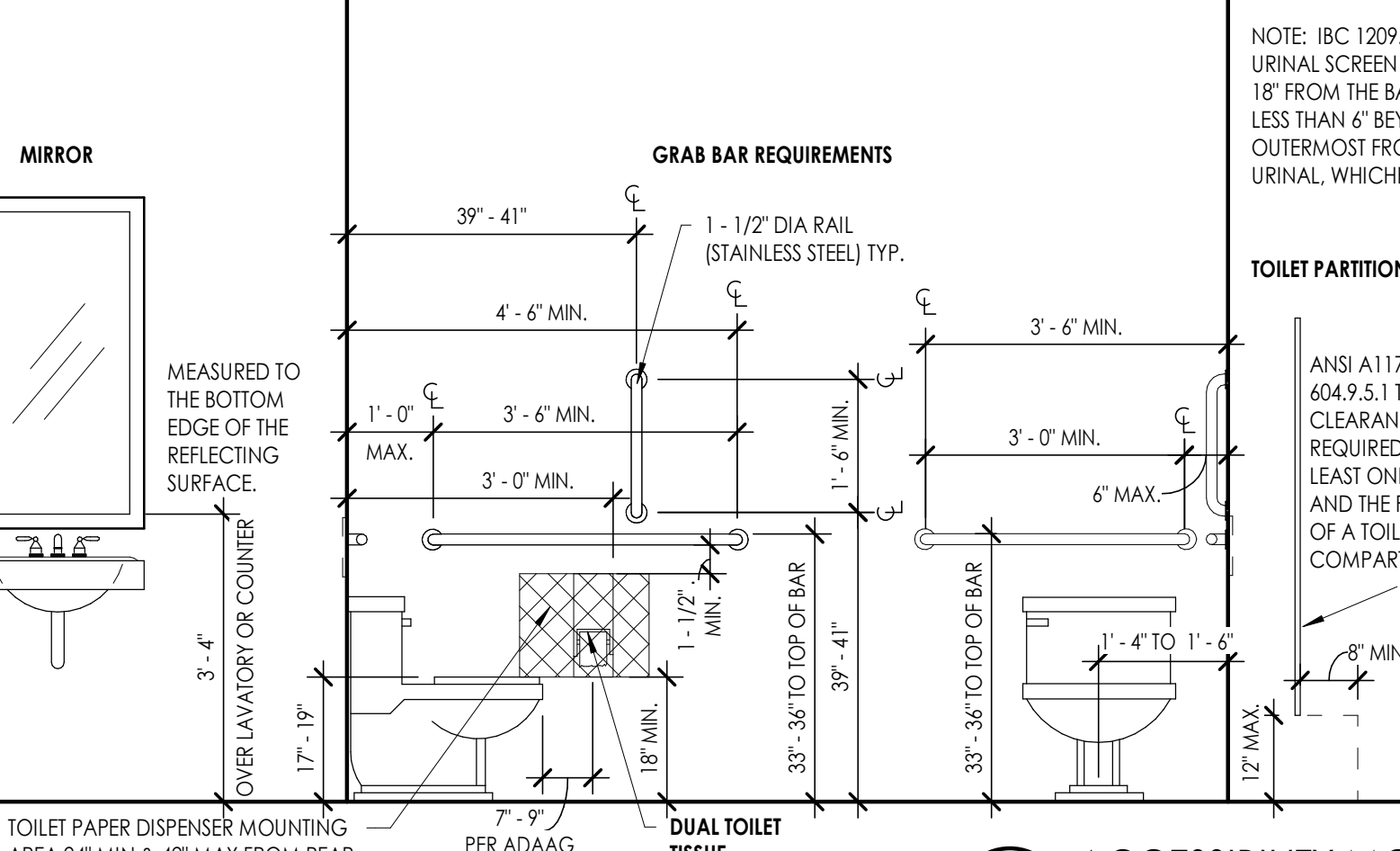
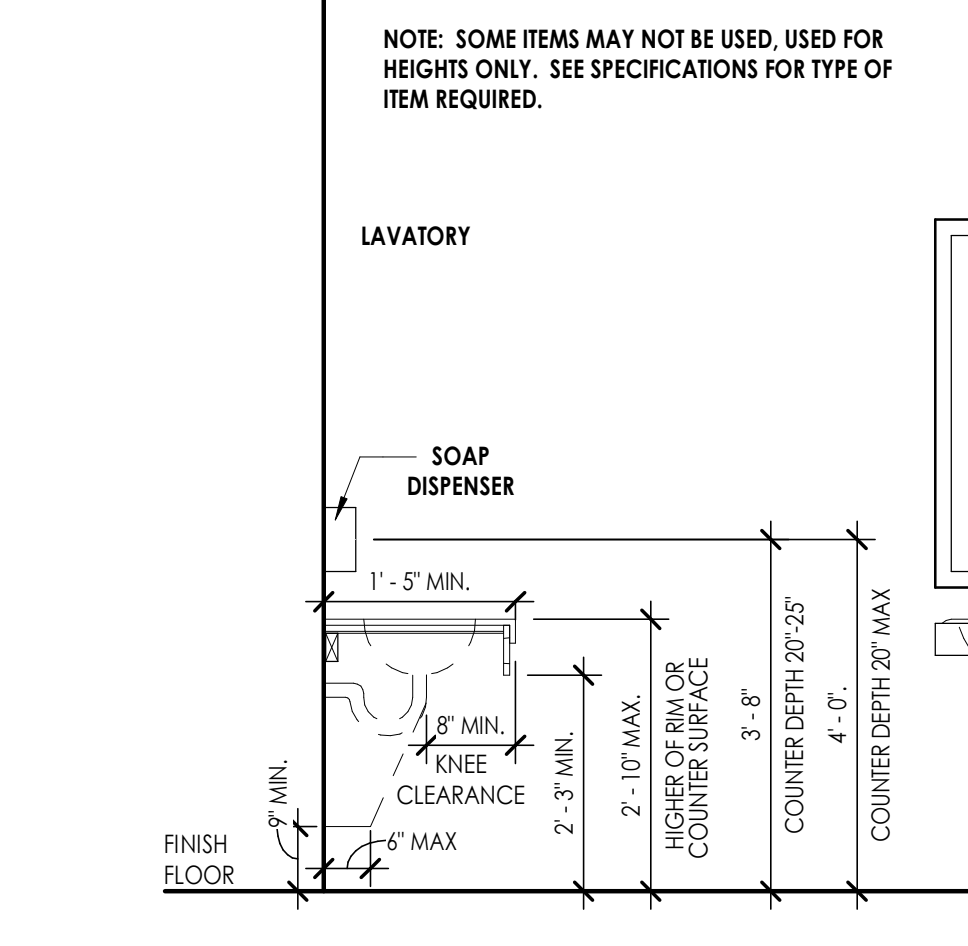
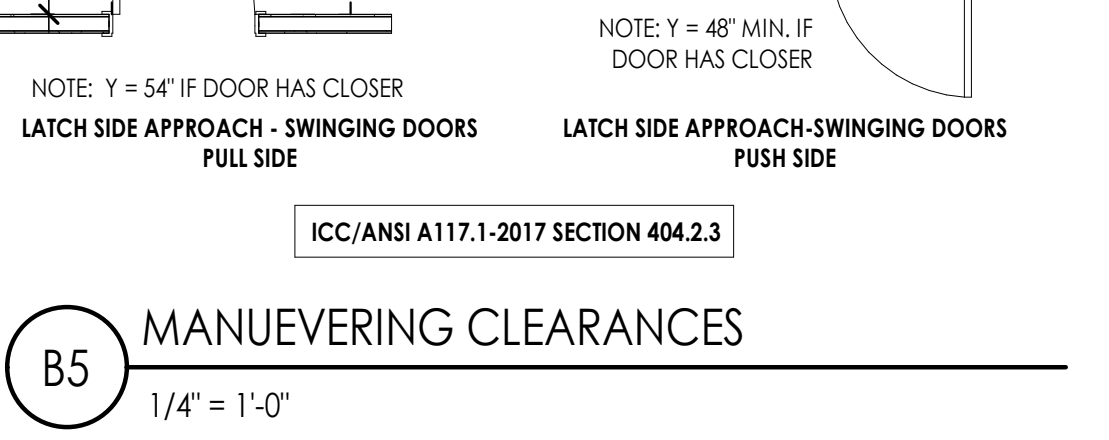
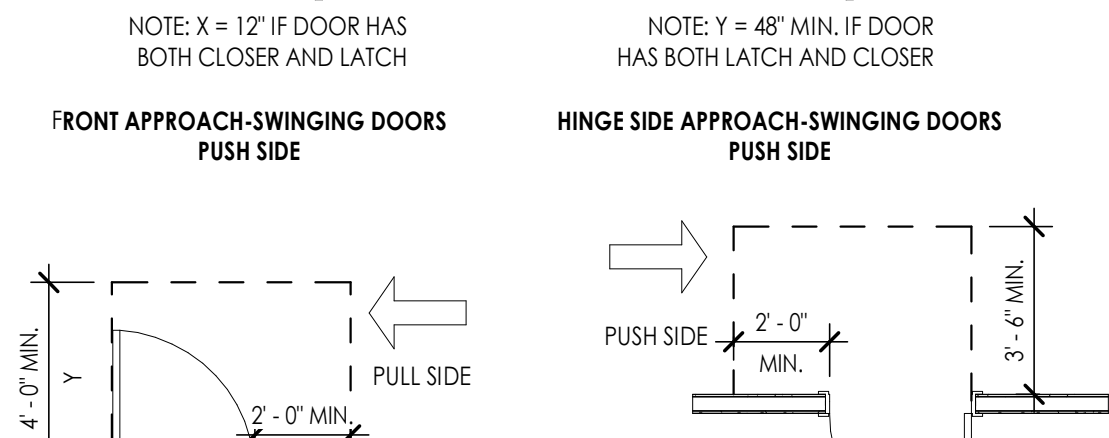
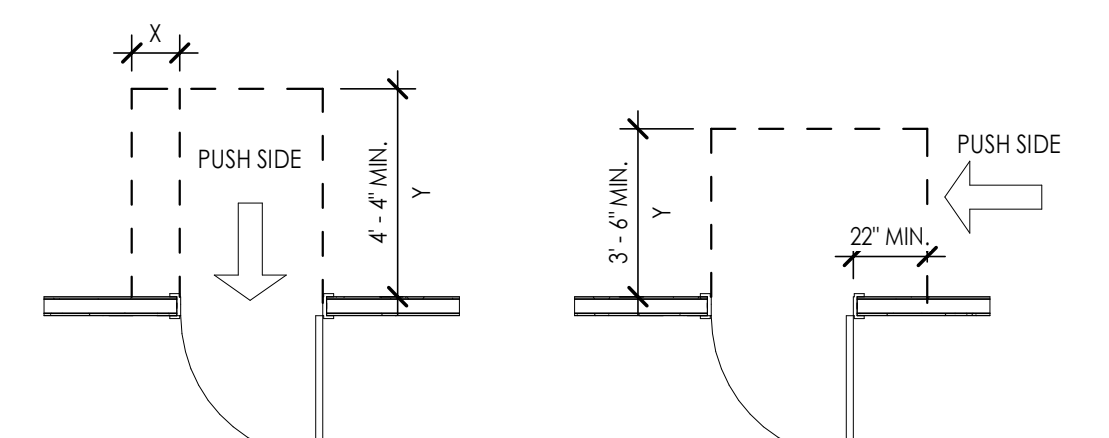
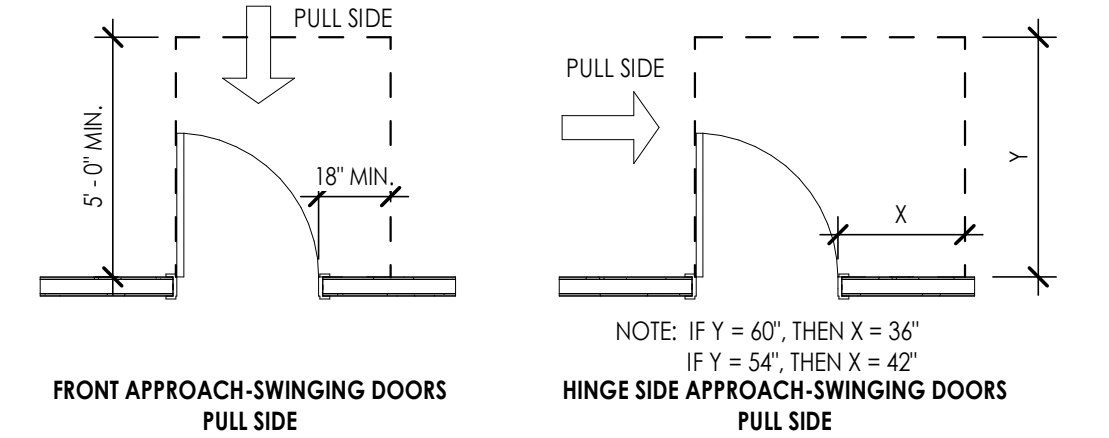
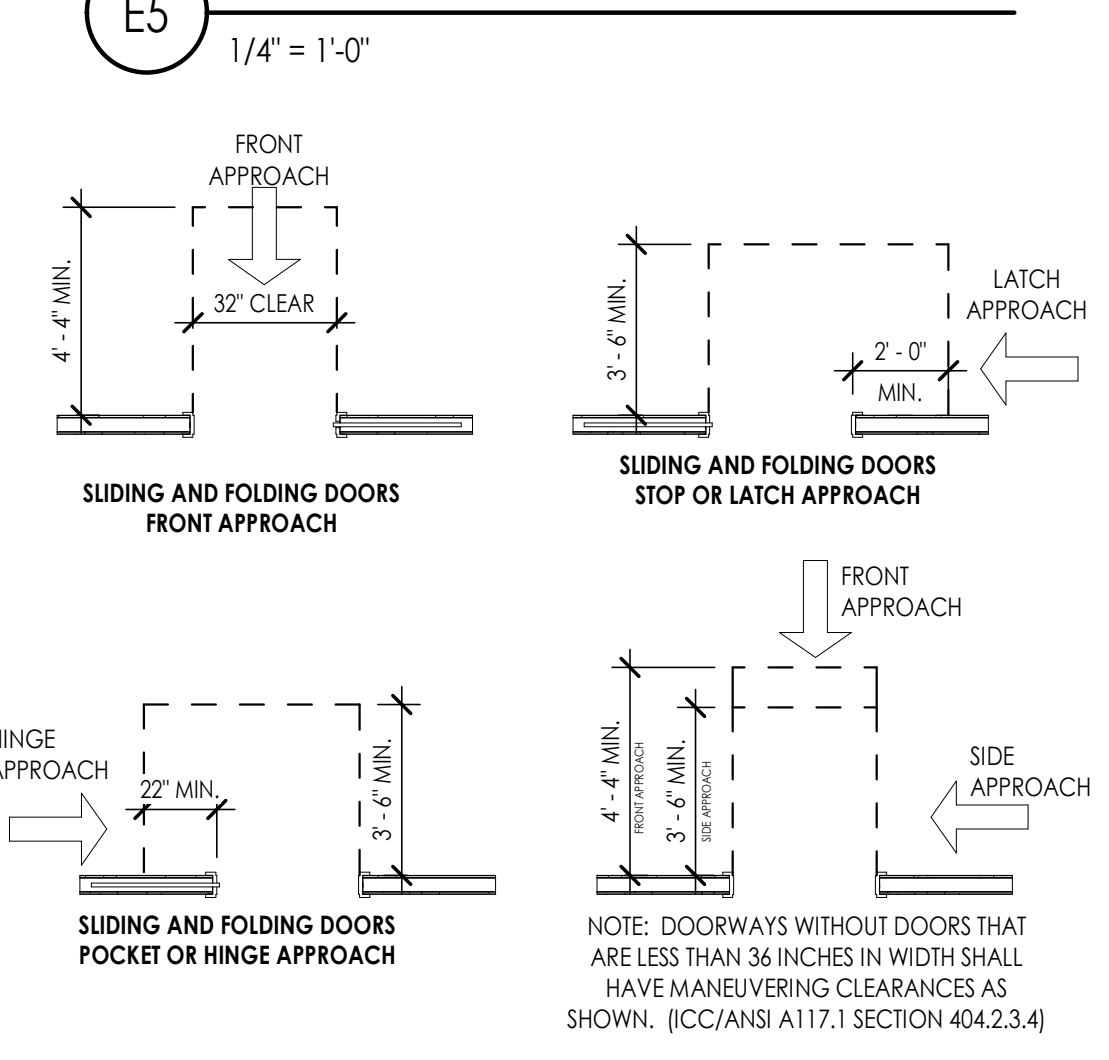
**B1 KNEE CLEARANCE REQUIREMENTS**  
1/2" = 1'-0"



**B2 TOE CLEARANCE REQUIREMENTS**  
1/2" = 1'-0"



**B3 REACH RANGES**  
1/2" = 1'-0"



**A3 ACCESSIBILITY MOUNTING HEIGHTS**  
1/2" = 1'-0"

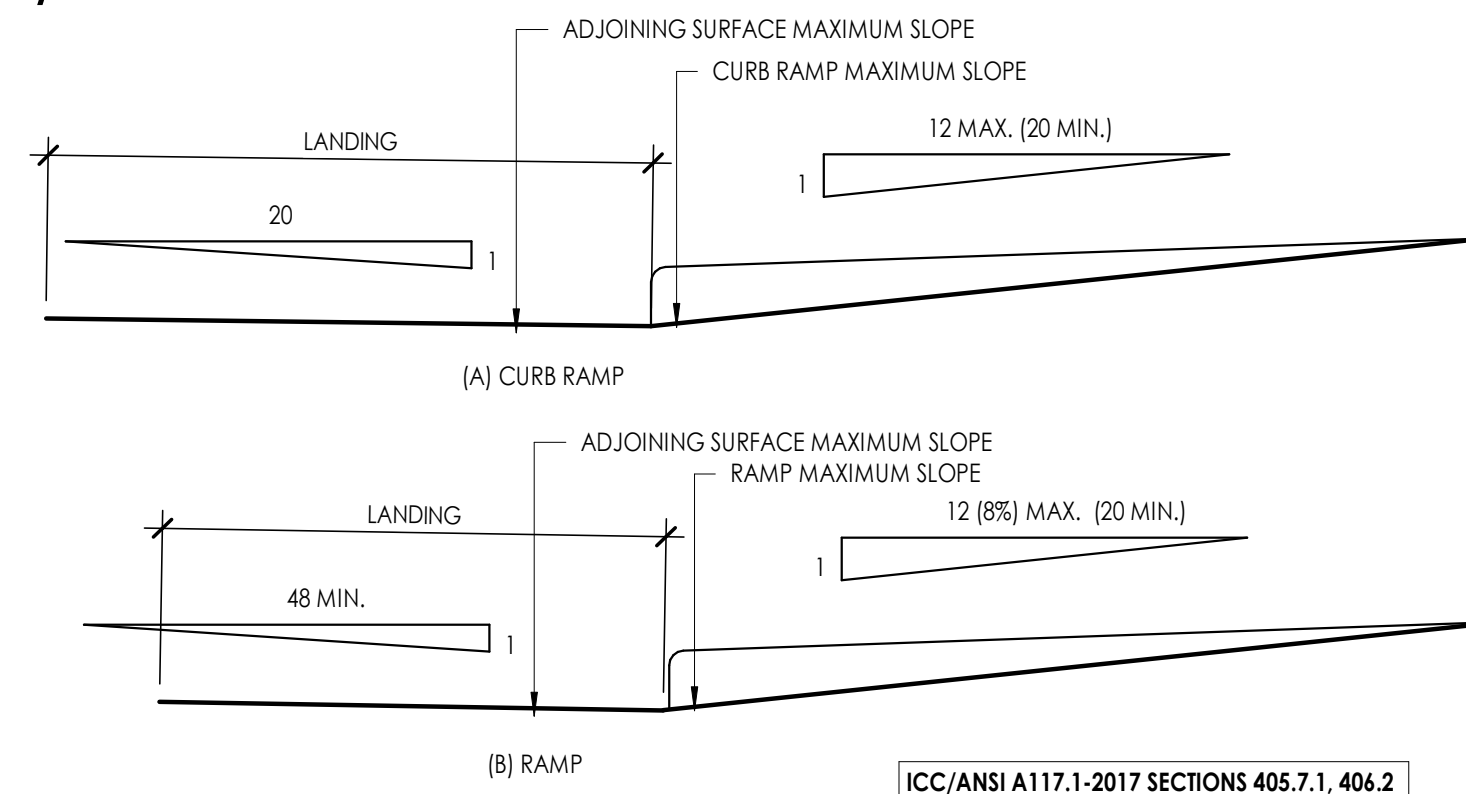
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Revision  
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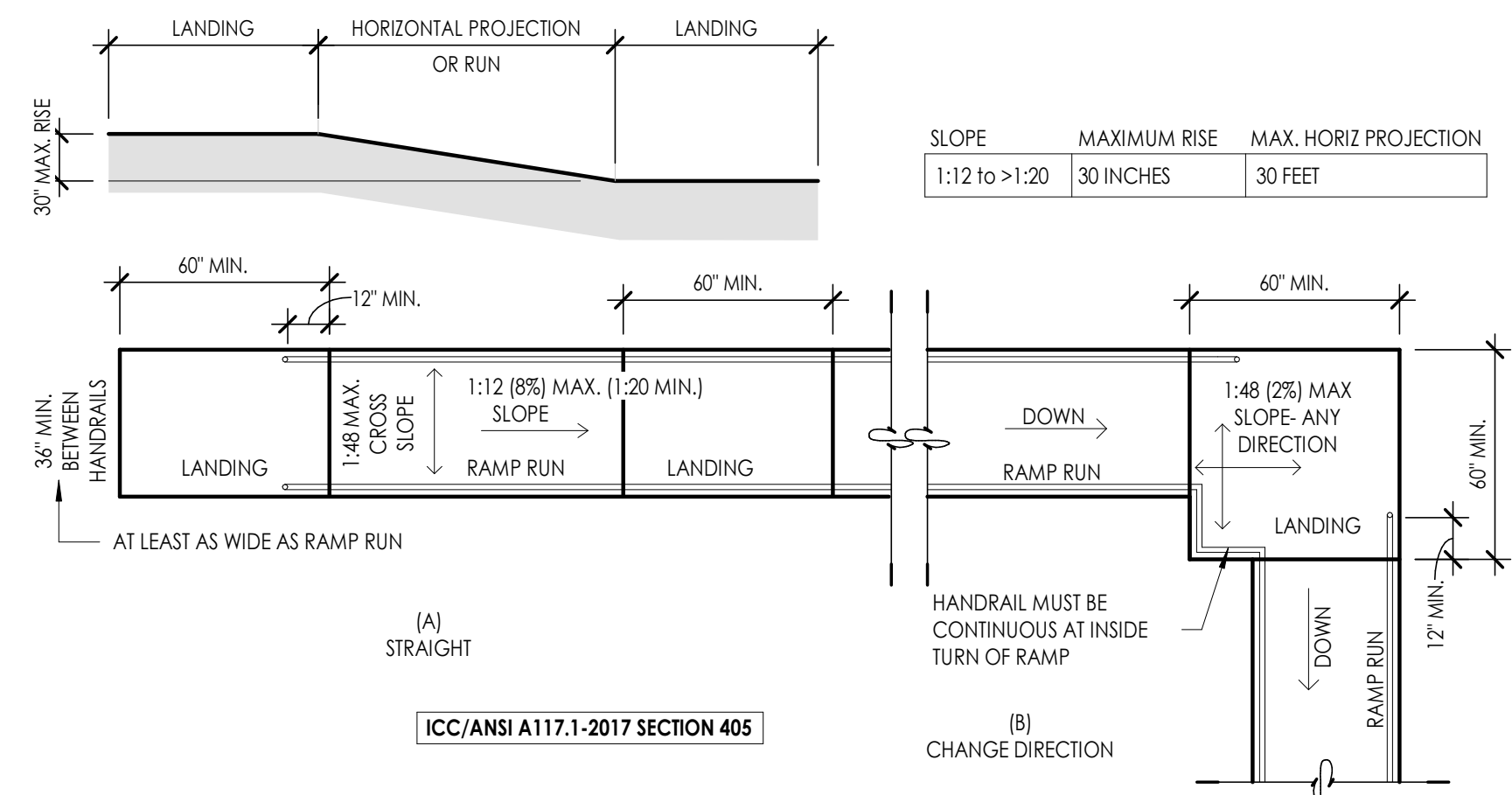
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Drawing Title  
ACCESSIBILITY DETAILS  
Sheet Number  
**G1005**

### RAMPS / HANDRAILS



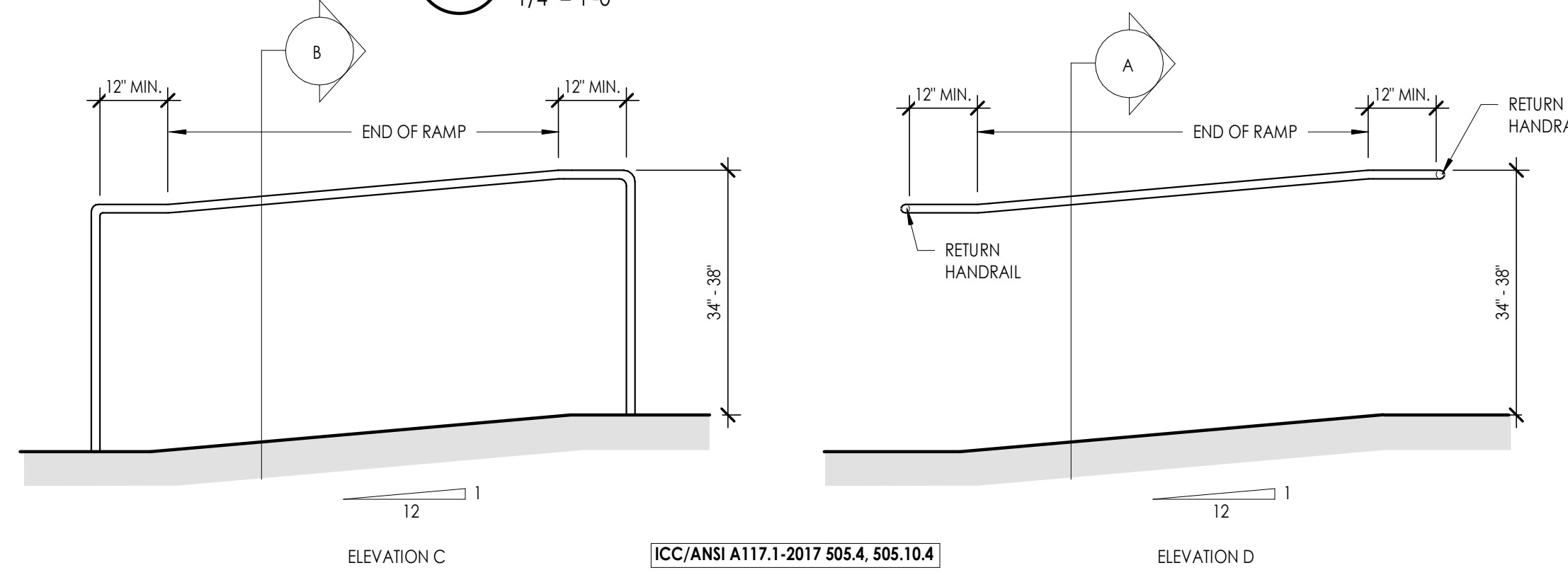
ICC/ANSI A117.1-2017 SECTIONS 405.7.1, 406.2

**D3** RAMPS AND CURB RAMP SLOPES  
1 1/2" = 1'-0"



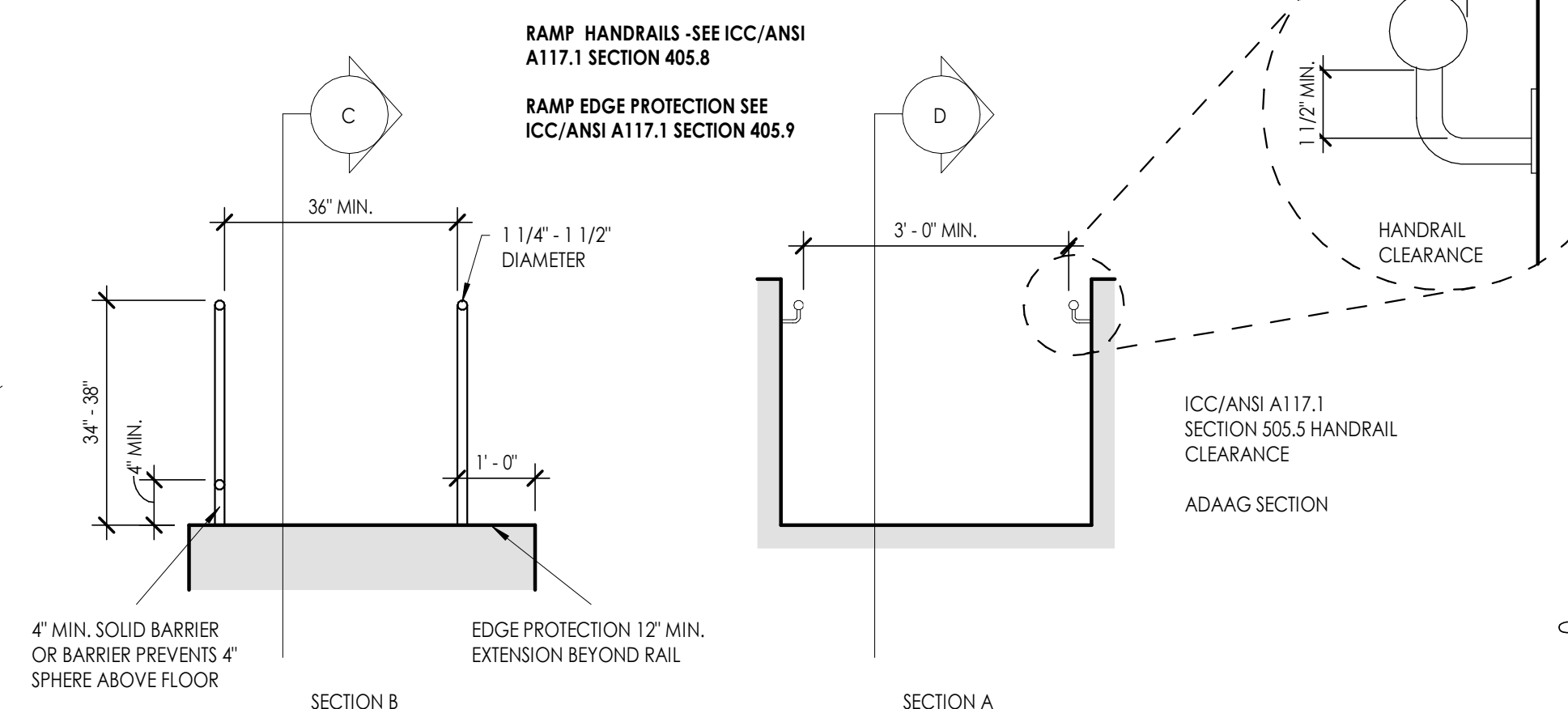
ICC/ANSI A117.1-2017 SECTION 405

**C3** RAMP DIMENSIONS  
1/4" = 1'-0"



ICC/ANSI A117.1-2017 505.4, 505.10.4

**B2** RAMP HANDRAILS (ELEVATIONS) HEIGHT & EXTENSIONS  
1/2" = 1'-0"

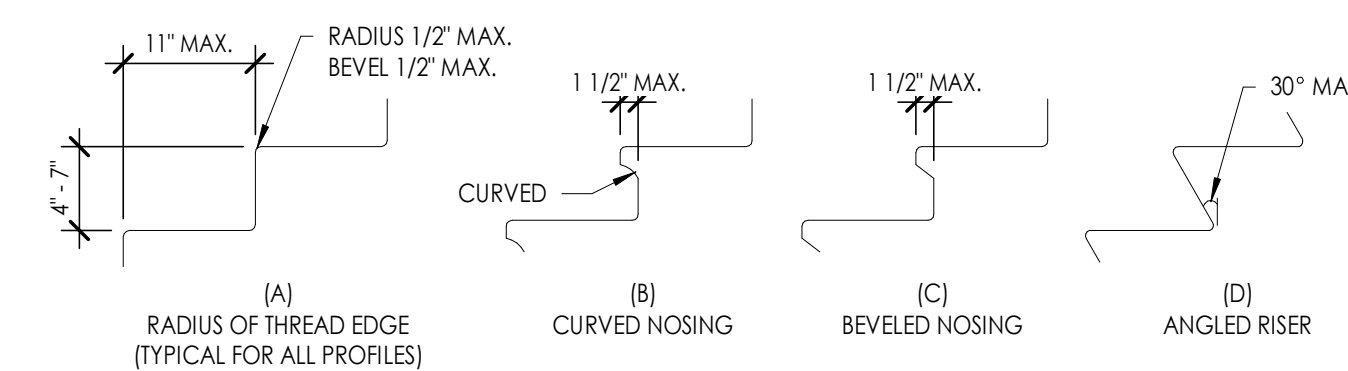


RAMP HANDRAILS - SEE ICC/ANSI A117.1 SECTION 405.8  
RAMP EDGE PROTECTION SEE ICC/ANSI A117.1 SECTION 405.9

ICC/ANSI A117.1 SECTION 505.5 HANDRAIL CLEARANCE ADAAG SECTION

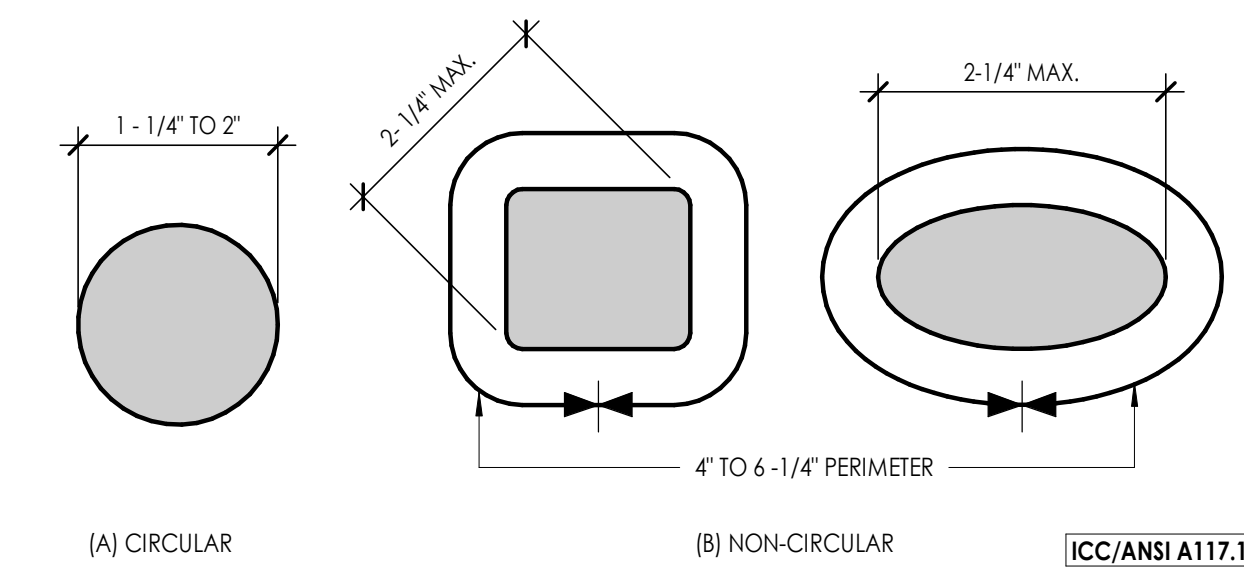
**A2** RAMP HANDRAILS HEIGHTS & EXTENSIONS  
1/2" = 1'-0"

### STAIRS / HANDRAILS



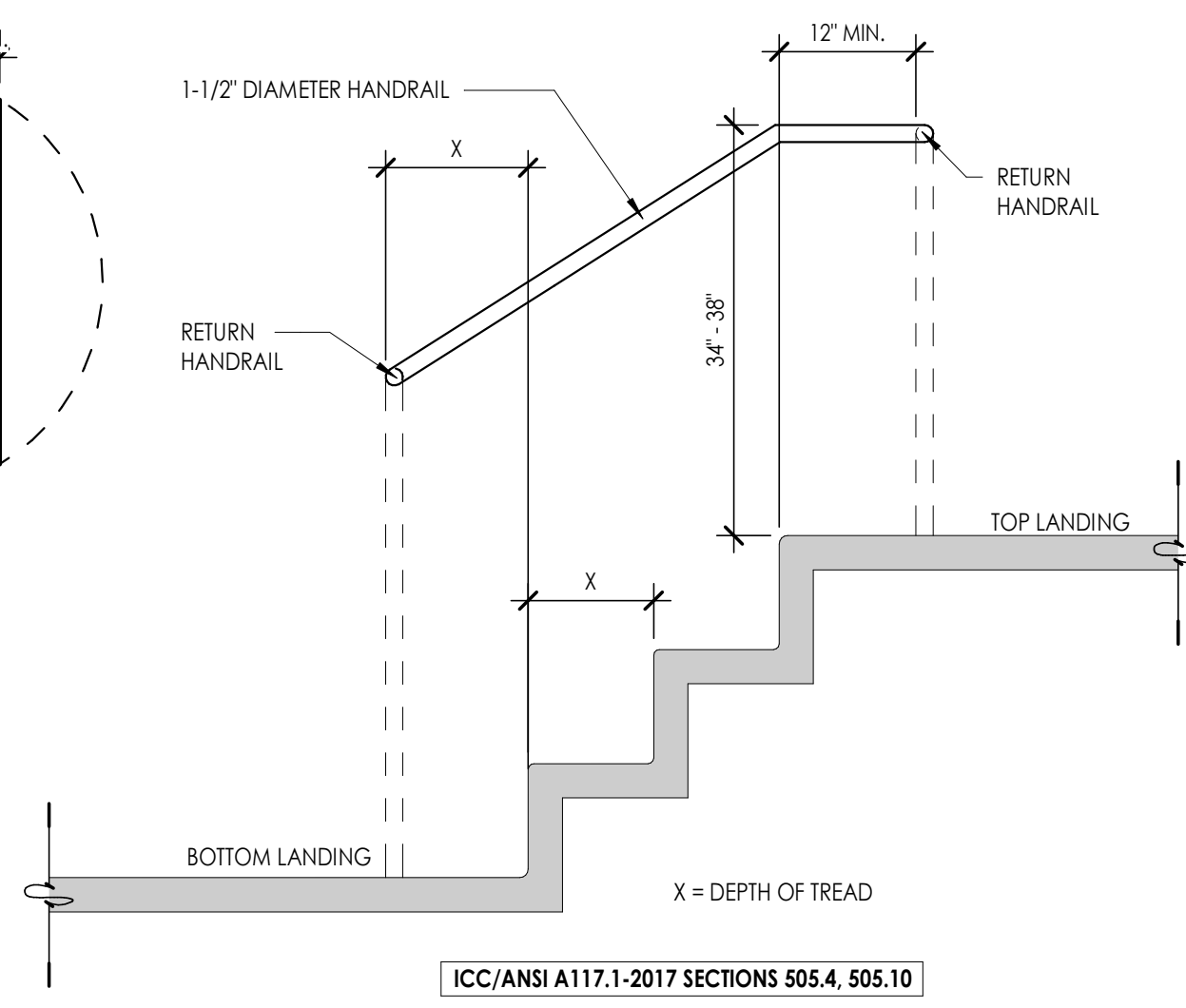
ICC/ANSI A117.1-2017 SECTION 504.5

**C4** ACCESSIBLE STAIR NOSINGS  
3/4" = 1'-0"



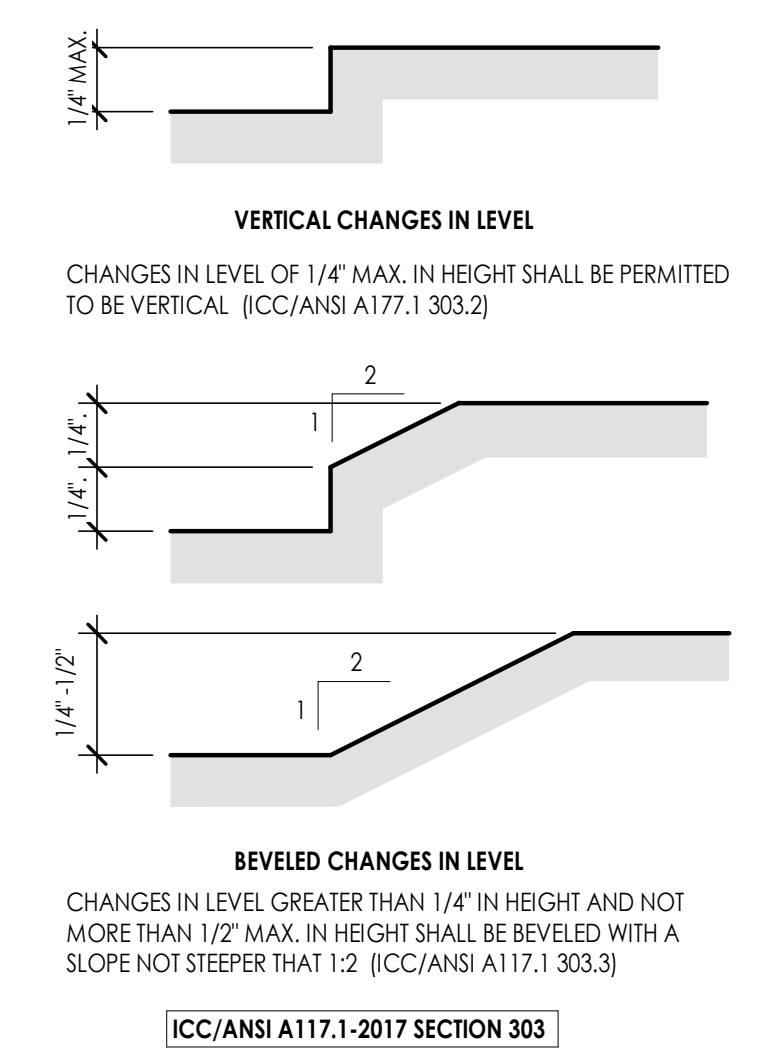
ICC/ANSI A117.1 SECTION 505.7 HANDRAIL CROSS-SECTION.

**B4** HANDRAIL CROSS-SECTION  
1" = 1'-0"



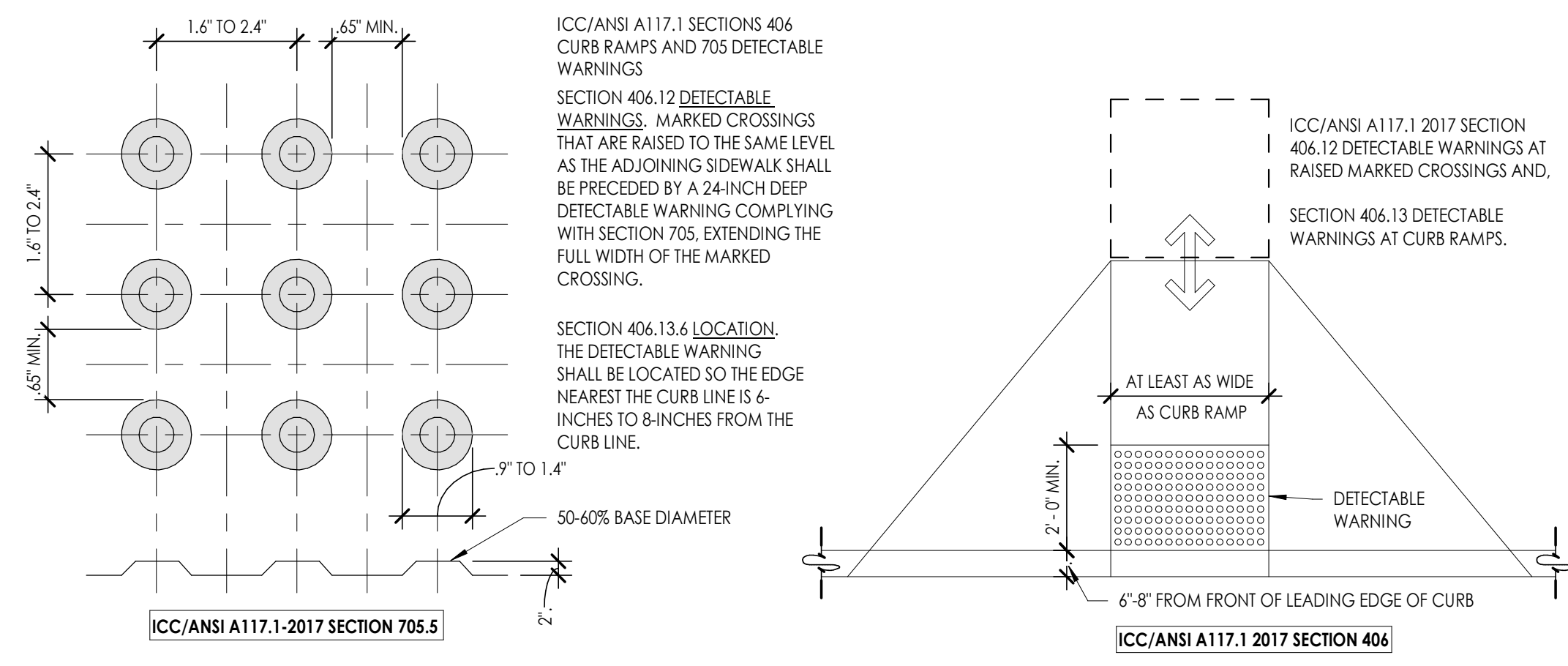
ICC/ANSI A117.1-2017 SECTIONS 505.4, 505.10

**A4** HANDRAIL EXTENSIONS  
3/4" = 1'-0"



ICC/ANSI A117.1-2017 SECTION 303

**A5** CHANGES IN LEVEL  
1" = 1'-0"

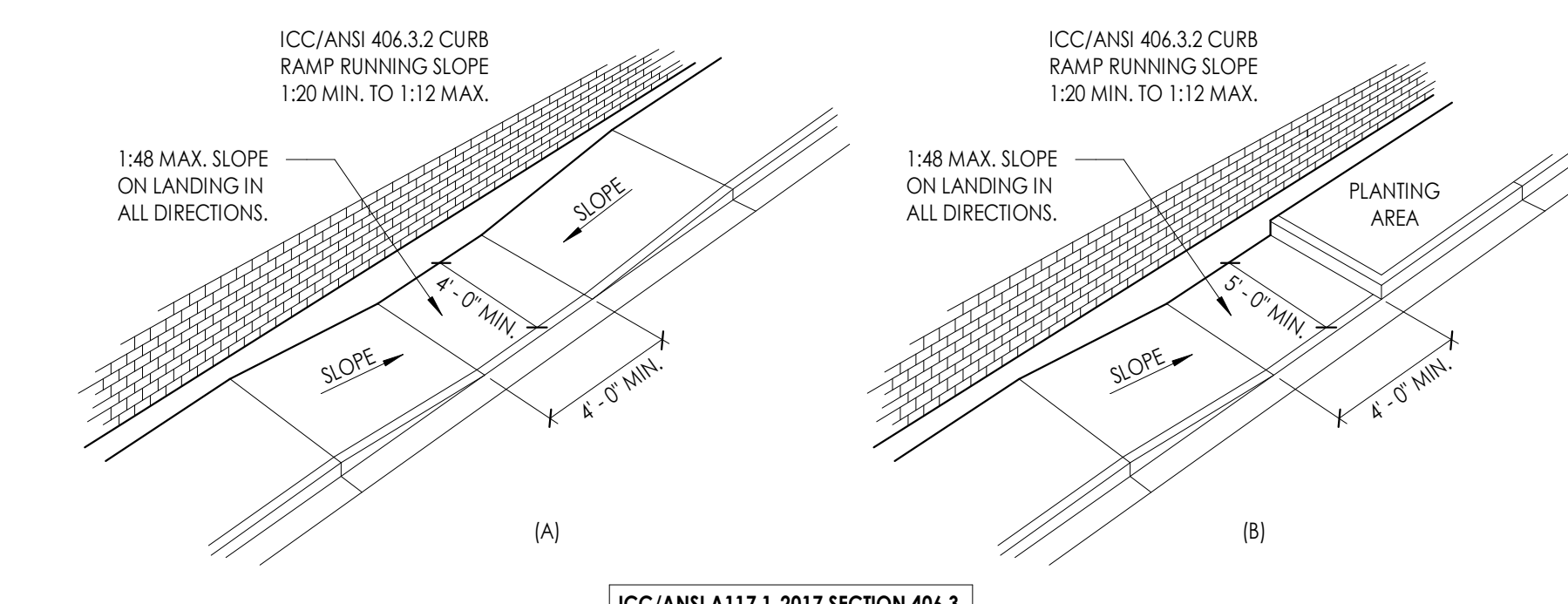


ICC/ANSI A117.1-2017 SECTION 705.5

ICC/ANSI A117.1 2017 SECTION 406

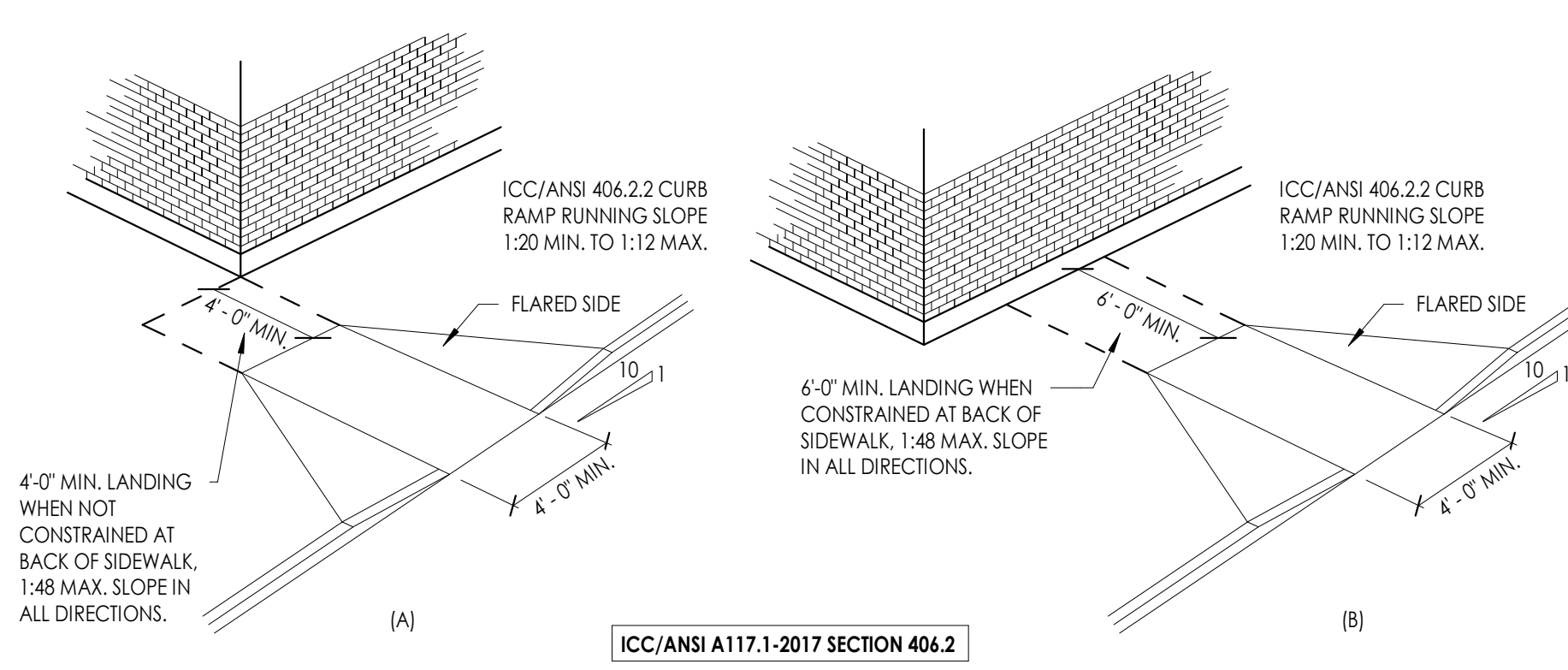
**C1** DETECTABLE WARNING PATTERN  
6" = 1'-0"

**C2** DETECTABLE WARNING LOCATION  
3/8" = 1'-0"



ICC/ANSI A117.1-2017 SECTION 406.3

**B1** PARALLEL CURB RAMP  
3/16" = 1'-0"



ICC/ANSI A117.1-2017 SECTION 406.2

**A1** FLARED SIDE CURB RAMP  
3/16" = 1'-0"

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ICC/ANSI A117.1-2017 SECTION 504 STAIRWAYS  
504.3 OPEN RISERS, OPEN RISERS ARE NOT PERMITTED.  
504.4 TREAD SURFACE, STAIR TREADS SHALL HAVE A SLOPE NOT GREATER THAN 1:48.  
504.6 VISUAL CONTRAST, THE LEADING 1" TO 2" OF THE TREAD SHALL HAVE VISUAL CONTRAST OF DARK-ON-LIGHT OR LIGHT-ON-DARK FROM THE REMAINDER OF THE TREAD, OR DURABLE DISTINCTIVE WARNING MARKINGS REQUIRED BY ADAPTED BUILDING CODE OR ANSI SAFETY STANDARD.

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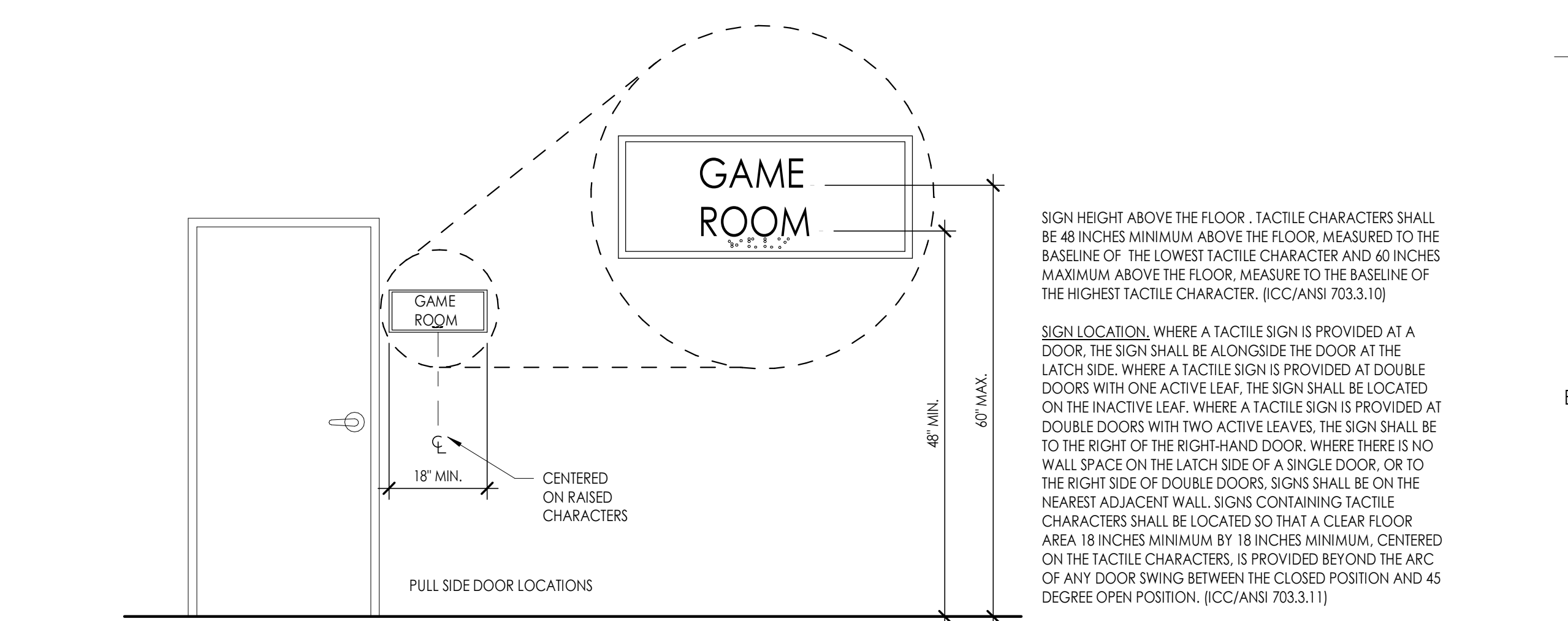
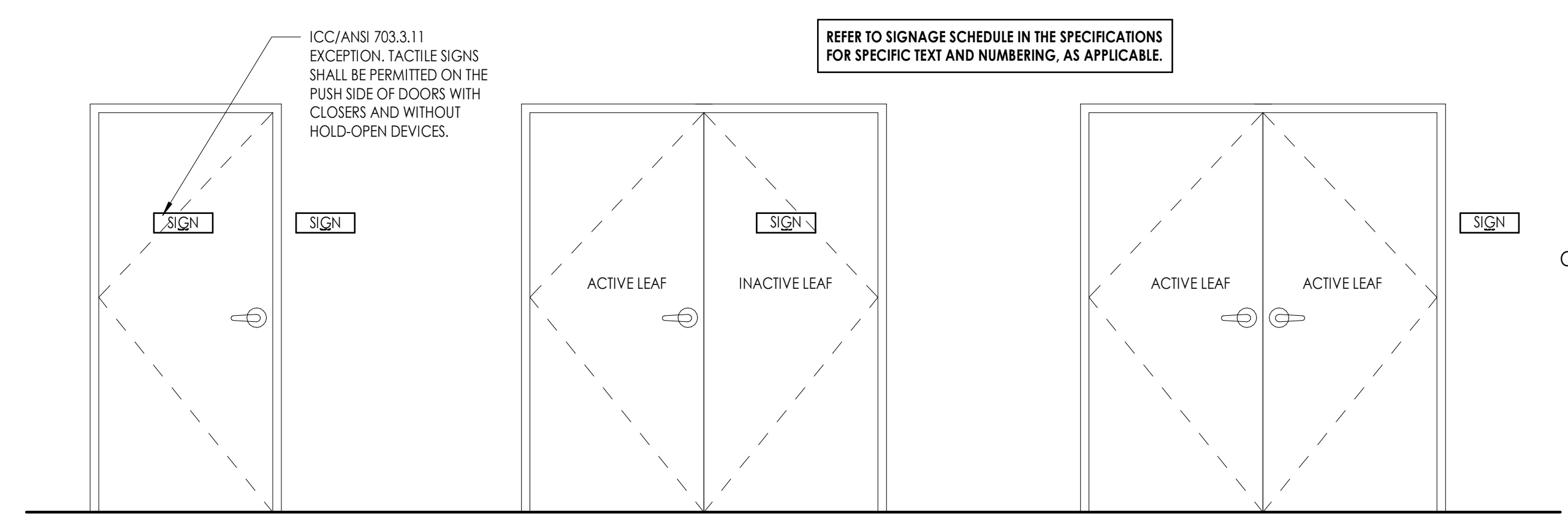
SA Project No. 219010  
Drawing Title  
ACCESSIBILITY DETAILS/  
RAMPS & STAIRS

Sheet Number  
**G1006**

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No.	Date	Description



**B4 SIGNAGE LOCATIONS**  
1/2" = 1'-0"

ICC/ANSI A177.1-2017 VISUAL CHARACTER HEIGHT TABLE 703.7.4

HEIGHT ABOVE FLOOR TO BASELINE OF CHARACTER	HORIZONTAL VIEWING DISTANCE	HORIZONTAL VIEWING DISTANCE
40 INCHES TO LESS THAN OR EQUAL TO 70 INCHES	LESS THAN 10 FEET	2 INCH
	10 FEET AND GREATER	2 INCH, PLUS 1/5 INCH PER FOOT OF VIEWING DISTANCE ABOVE 10 FEET
GREATER THAN 70 INCHES TO LESS THAN OR EQUAL TO 120 INCHES	LESS THAN 15 FEET	3 INCHES
	15 FEET AND GREATER	3 INCH, PLUS 1/5 INCH PER FOOT OF VIEWING DISTANCE ABOVE 15 FEET
GREATER THAN 120 INCHES	LESS THAN 20 FEET	4 INCHES
	20 FEET AND GREATER	4 INCH, PLUS 1/5 INCH PER FOOT OF VIEWING DISTANCE ABOVE 20 FEET

703.7.4 CHARACTER HEIGHT. THE UPPERCASE LETTER "T" SHALL BE USED TO DETERMINE THE ALLOWABLE HEIGHT OF ALL LOW RESOLUTION VMS CHARACTERS OF A FONT. THE HEIGHT OF THE UPPERCASE LETTER "T" OF THE FONT, MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER, SHALL HAVE A MINIMUM HEIGHT COMPLYING WITH TABLE 703.7.4.

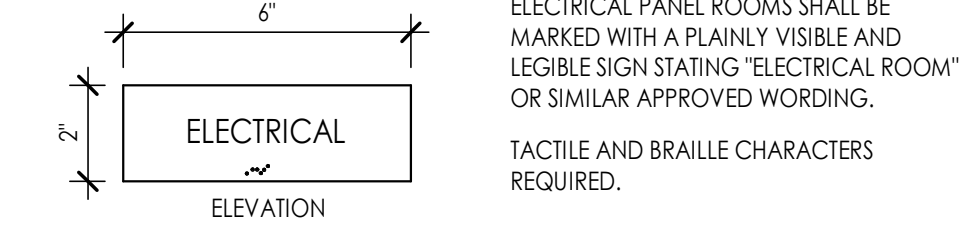
FIG 703.3.5

NOTE: ADAAG: TEMPORARY SIGNS, WHICH ARE EXEMPT INCLUDE IDENTIFICATION OF TENANCIES, NAMES AND TITLES OF ROOM OCCUPANTS, NOT-FIXED SIGNAGE, AND TEMPORARY POSTINGS. TEMPORARY SIGNS ARE NOT REQUIRED TO HAVE TACTILE OR BRAILLE CHARACTERS.

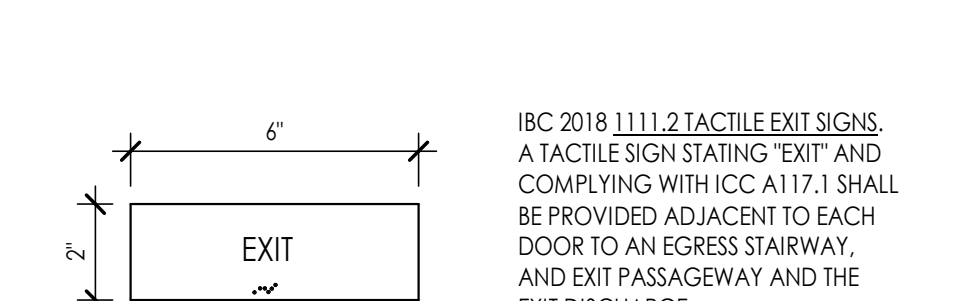
ADAAG 4.30 TACTILE SIGNAGE. RAISED AND BRAILLE CHARACTERS ARE REQUIRED ON SIGNS THAT DESIGNATE PERMANENT ROOMS AND SPACES INCLUDING RESTROOMS, EXITS, ROOMS BY NUMBER.

IFC 2015 605.3.1 LABELING. DOORS INTO ELECTRICAL PANEL ROOMS SHALL BE MARKED WITH A PLAINLY VISIBLE AND LEGIBLE SIGN STATING "ELECTRICAL ROOM" OR SIMILAR APPROVED WORDING.

TACTILE AND BRAILLE CHARACTERS REQUIRED.

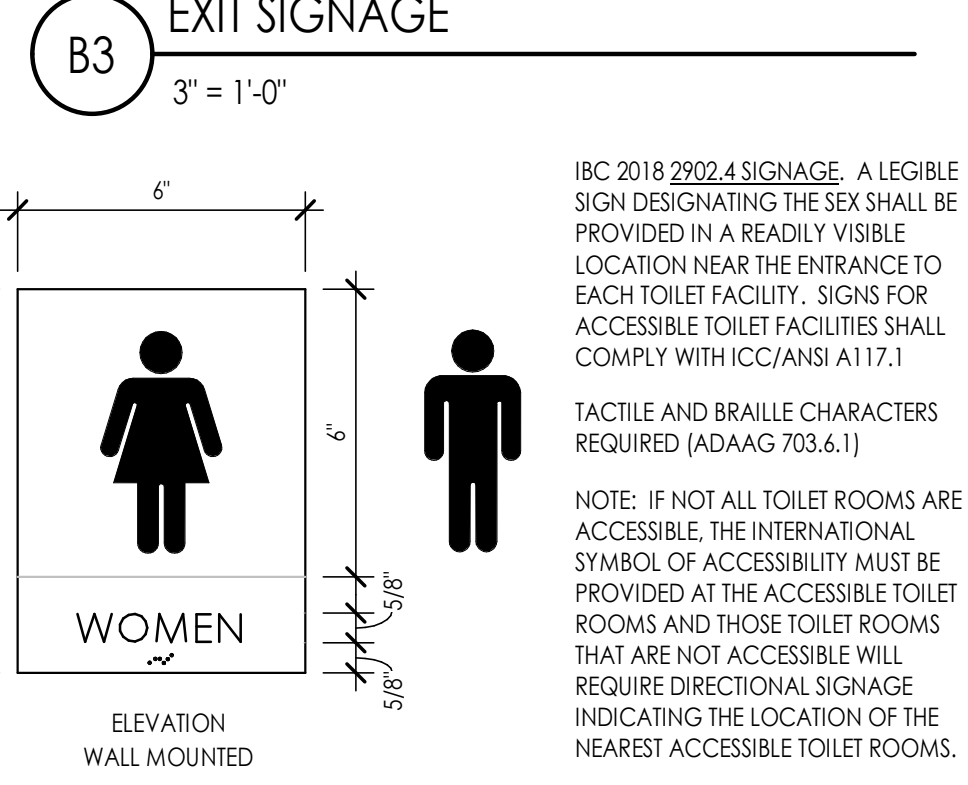


**C3 ROOM IDENTIFICATION SIGNAGE**  
3" = 1'-0"

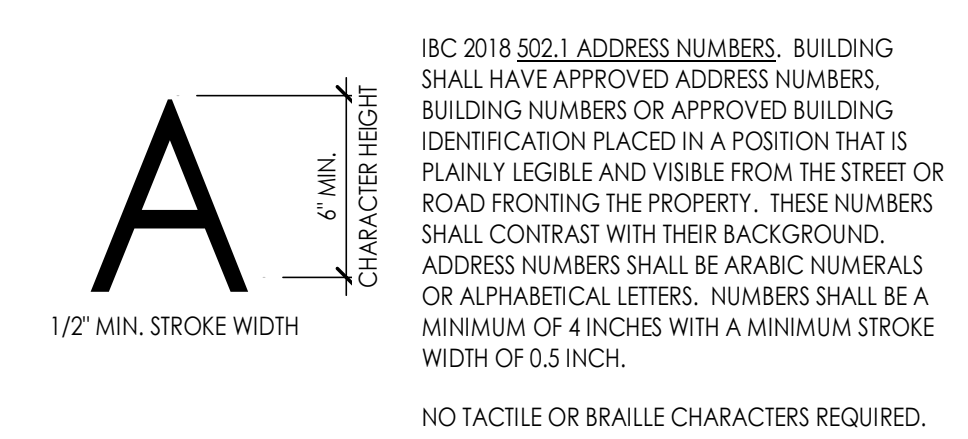


**B4 SIGNAGE LOCATIONS**  
1/2" = 1'-0"

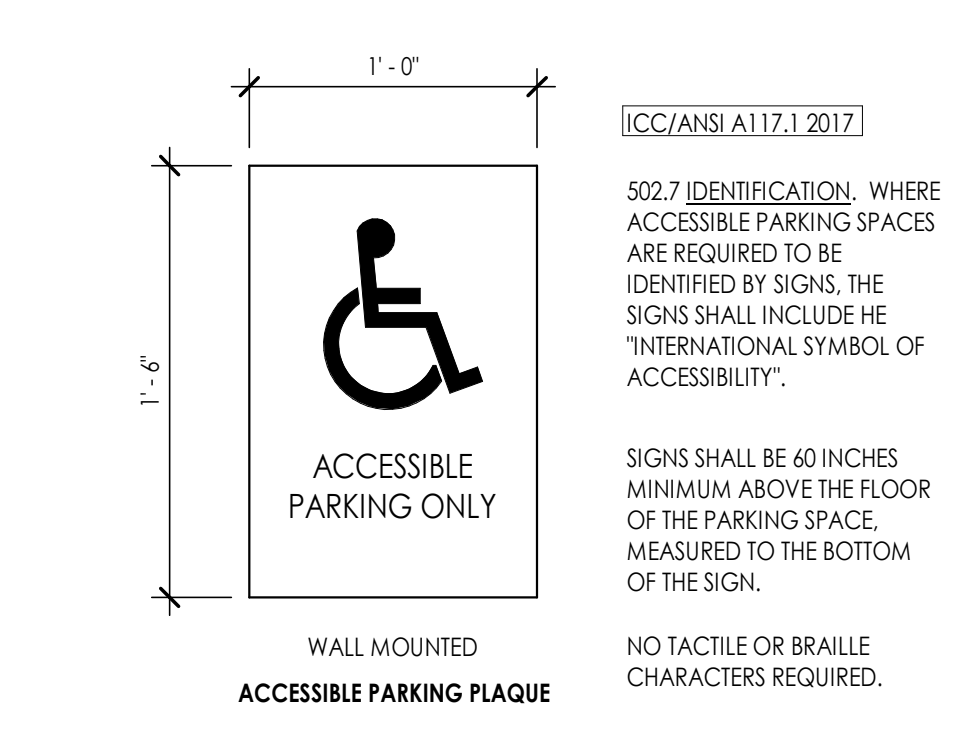
**B3 EXIT SIGNAGE**  
3" = 1'-0"



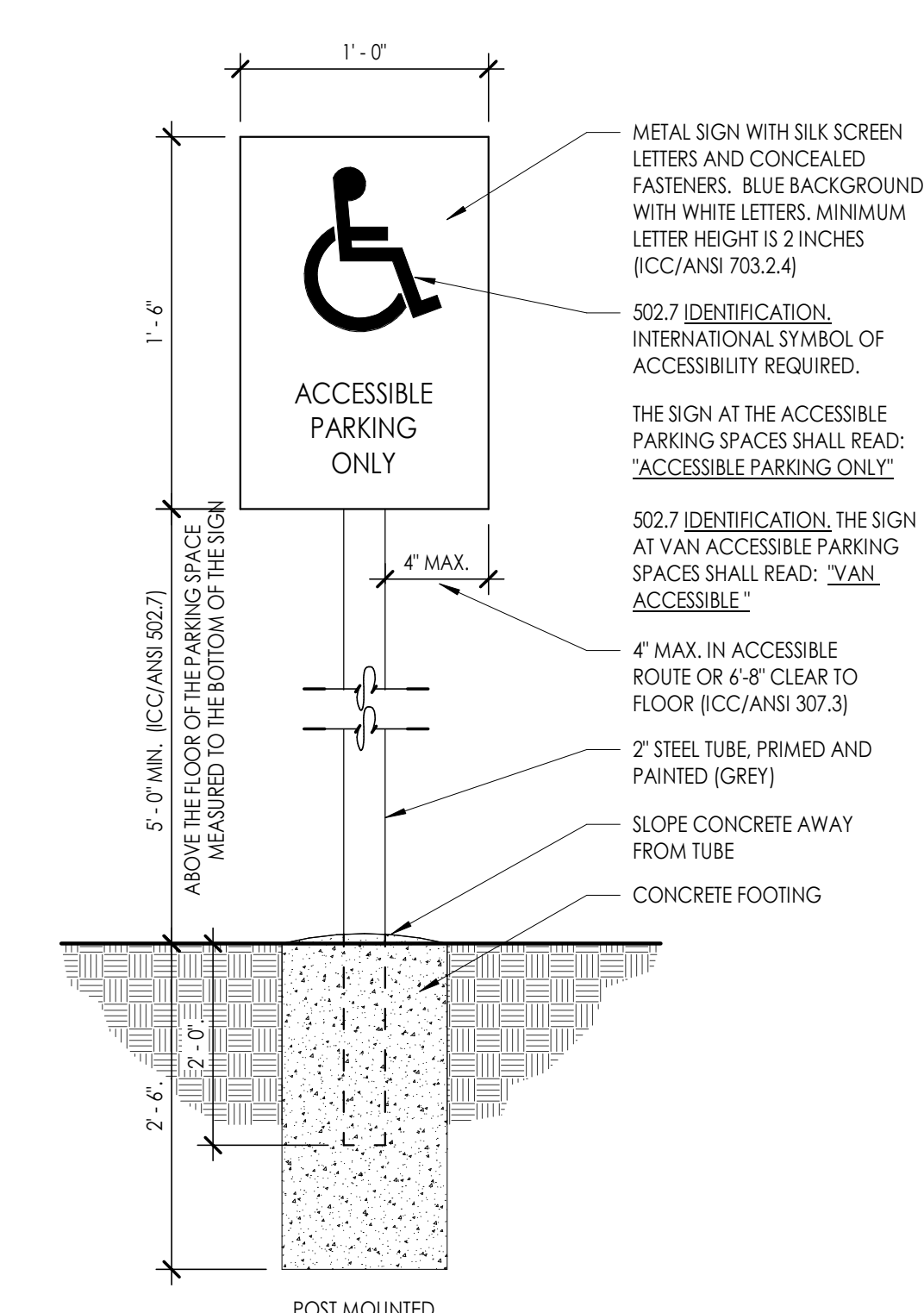
**A3 RESTROOM SIGNAGE**  
3" = 1'-0"



**B2 BUILDING ADDRESS SIGNAGE**  
3" = 1'-0"



**A2 WALL MOUNTED ACCESSIBLE PARKING SIGNAGE**  
1 1/2" = 1'-0"



**A1 POST MOUNTED ACCESSIBLE PARKING SIGNAGE**  
1 1/2" = 1'-0"