

GLENBROOK SOUTH
HIGH SCHOOL

Glenbrook South High School

Interior Signage & Wayfinding Standards

Phase 4 - Construction Documents

February 1, 2021



Glenbrook South High School
4000 West Lake Avenue
Glenview, Illinois 60026

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Glenbrook South High School
Interior Signage & Wayfinding Standards
Phase 4.0 - Construction Documents

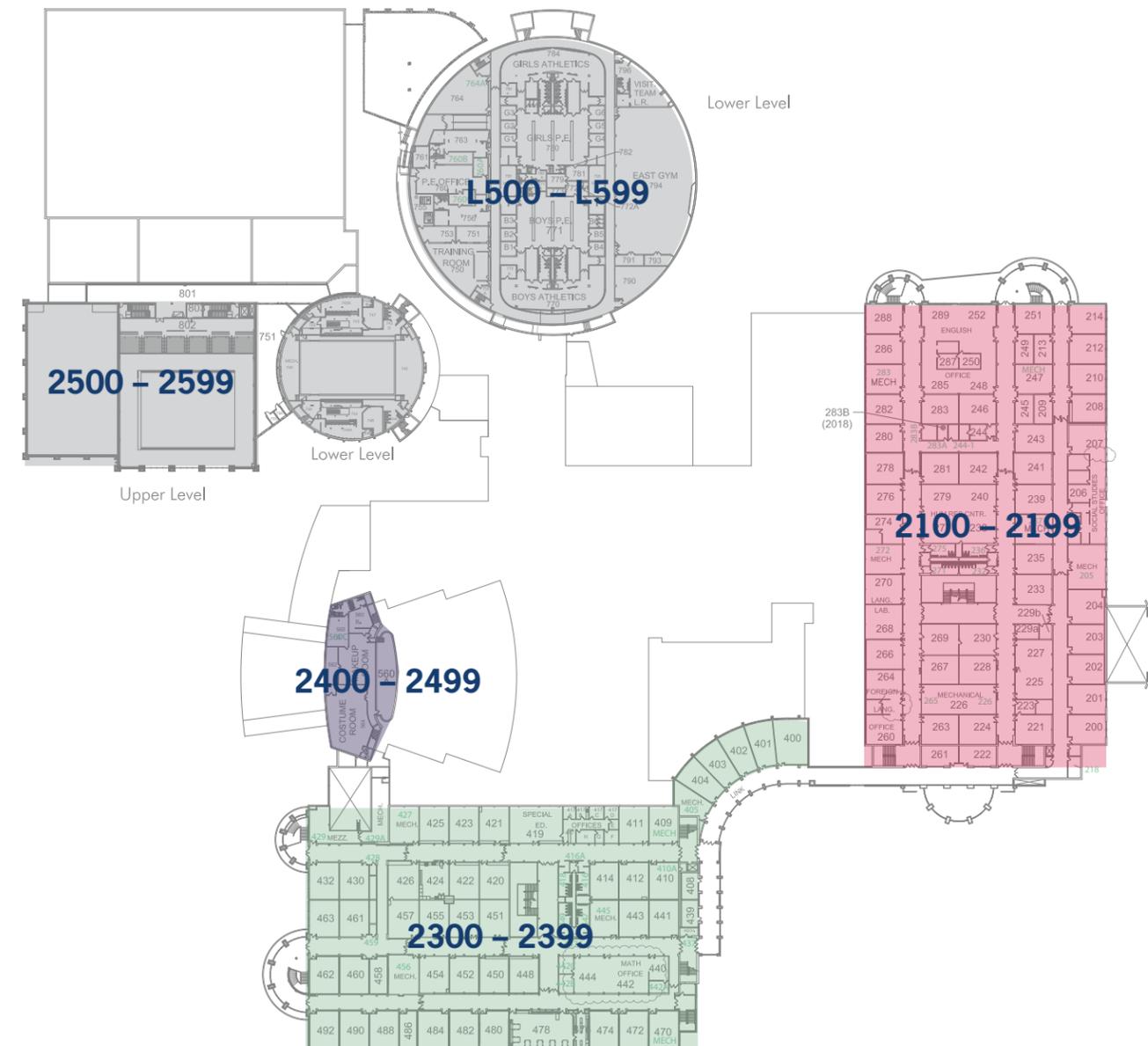
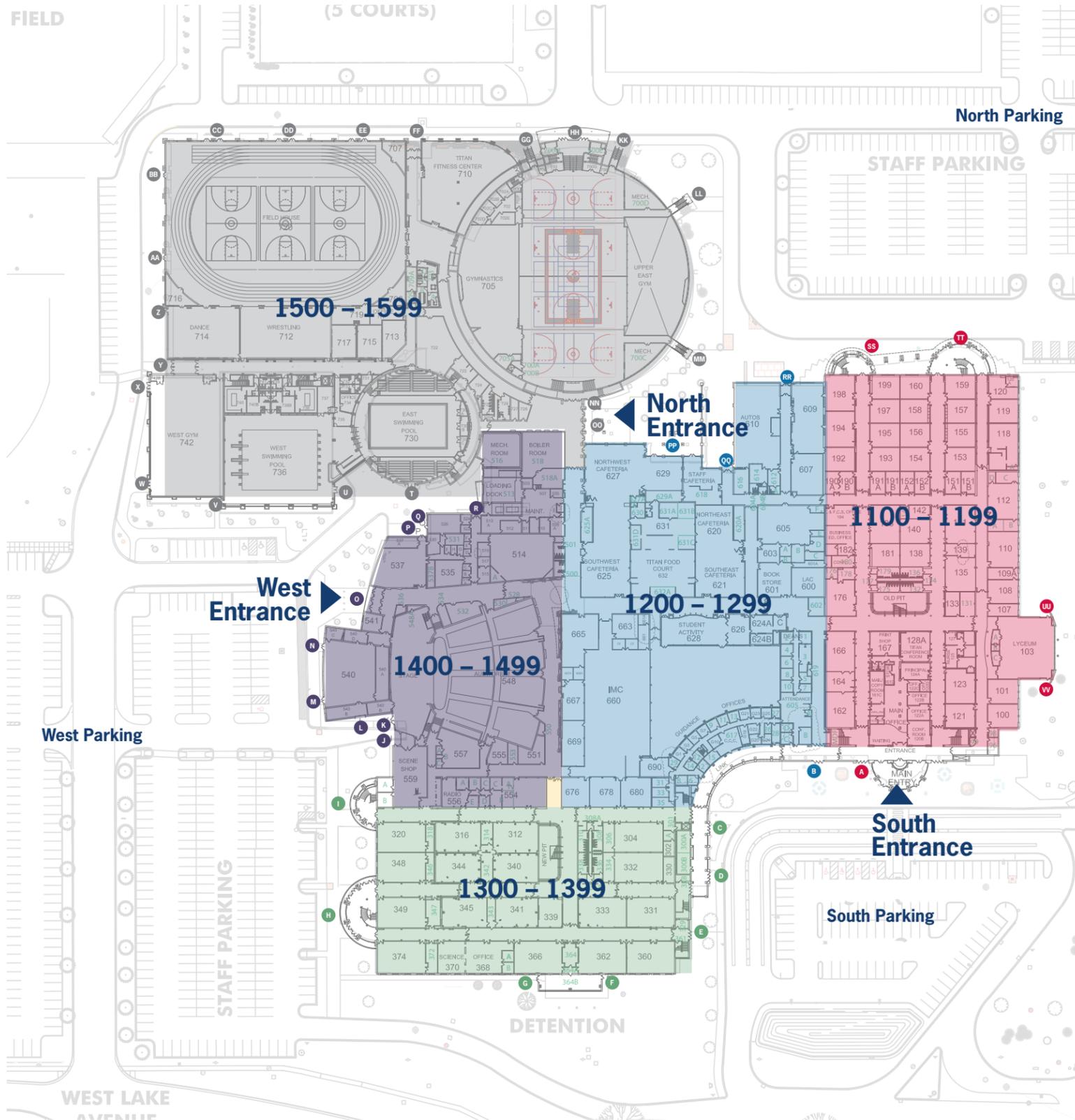
02.01.21

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Cardosi Kiper Design Group shall complete all tasks outlined in the Scope of Services following the time frame outlined:

PHASES	TIME FRAME	DATE
Phase 4.0 Construction Documentation Prepare Construction document bid package to include Meeting #5 - Submittal of Construction Documents Review with GBS GBS approves CD's and submits all review comments to CKDG CKDG forwards "Issued for Pricing" Construction Documents to GBS to procure pricing	2 months	January - Feb. Feb. 1st Feb. 15th Feb. 22nd
Phase 5.0: Pricing - By GBS with CKDG assistance GBS sends package out to for Pricing to Design Build Fabricator Partner Pricing due back to GBS with CKDG review GBS awards contract to Fabricator Board Approval	3 weeks	Feb. 22 - March 12
Phase 6.0 Contract Administration Meeting #6 - Attend pre-construction on-site meeting with fabricator Shop Drawing Review Period Meeting #7 - Review Prototypes/On-site Walk Through For Installation Fabrication Period Installation Period Meeting #8 - Punch List with CKDG / GBS / Fabricator	4-6 months	March - August
PROJECT COMPLETE		August, 2021



Logo Variations



Type

BOARD FONT - Georgia

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 1234567890

SIGNAGE FONT - Gotham Narrow Medium

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 1234567890

SIGNAGE FONT - Gotham Medium

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 1234567890

Materials



P1
Standard
Bright White



V1
3M Matte White
7725-20



V2
3M Dark Grey
7725-44



V3
3M Brushed
Aluminum (vertical grain)

Branding Colors



GBS BLUE
SW 6244
Naval



GBS YELLOW
SW 6906
Citrus

Fire Zone Colors



1100/2100
SW 6864
Cherry Tomato



1200
SW 6959
Blue Chip



1300/2300
SW 6739
Eco Green



1400
SW 6983
Fully Purple

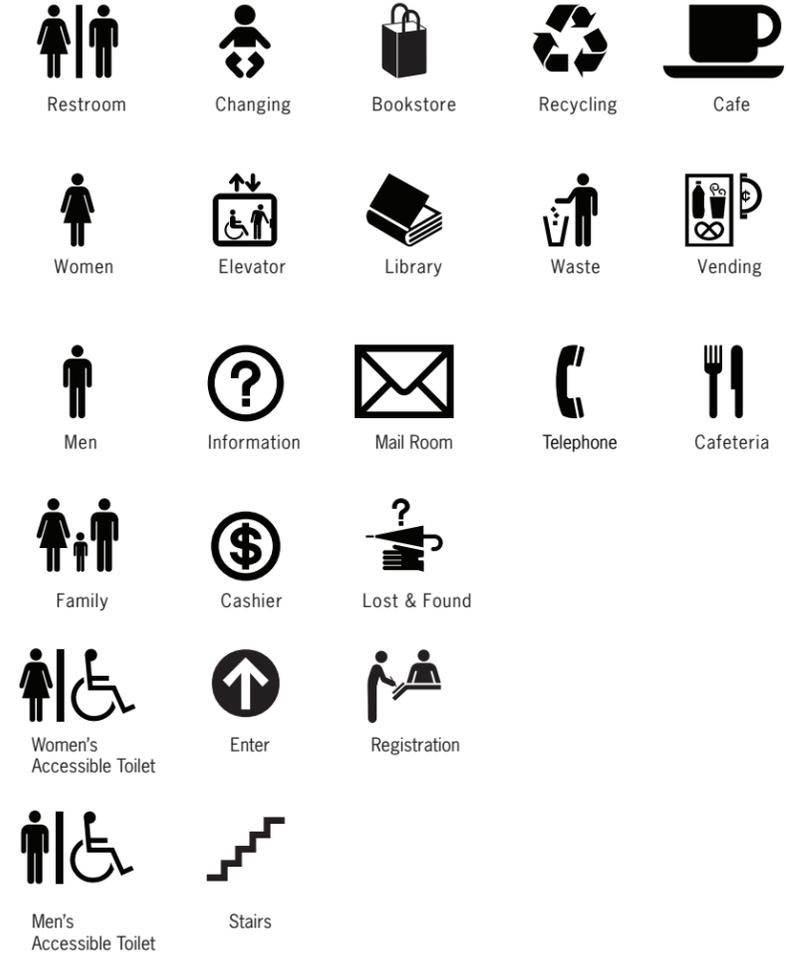


PMS Cool Gray 8C

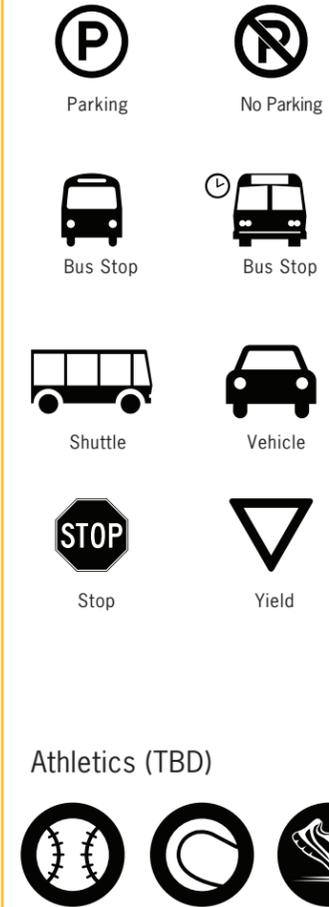
Regulatory / Safety



Facility Services



Parking Lot / Transportation



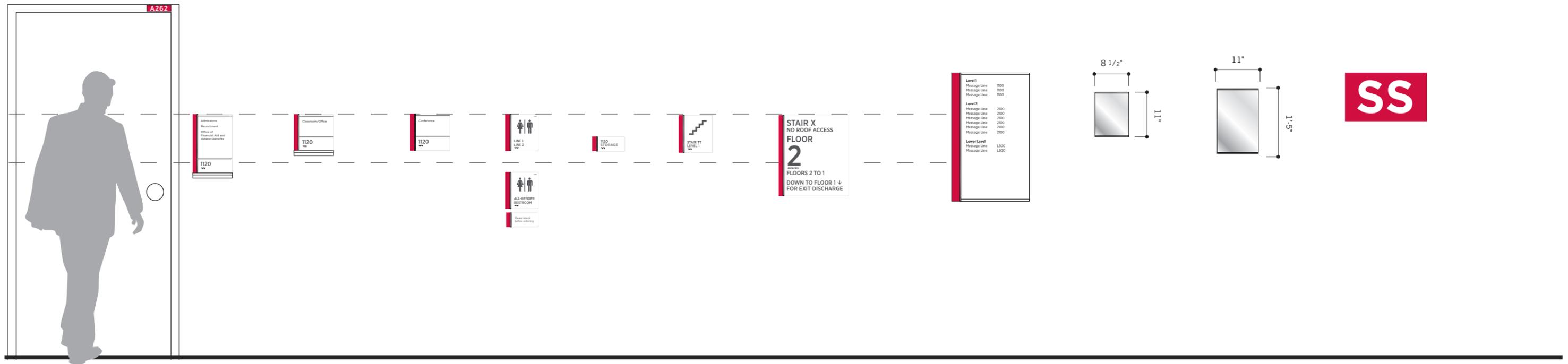
Symbols are helpful for multi-lingual audiences. The use of symbols in conjunction with the English terms can assist the understanding of the terms.

Arrows



Task 1

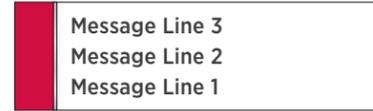
Interior Signage



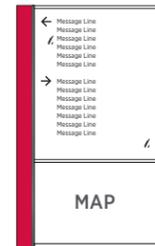
ELEVATION Scale: 1/2" = 1'-0"	D8 Room ID Interior Room Number Tag	D1 Department ID Changeable w/ Notifier Bar	D2/D3 Classroom/Office ID Changeable w/ Notifier Bar	D4 Conference ID Changeable	D5 Restroom ID Permanent D5.2 Gender Neutral ID Permanent	D6 Back of House Permanent	R1 Stair ID (Outside Stairwell) Permanent	R2 Stair ID (Inside Stairwell) Permanent	I1.1 Directory	I4.1 8.5" x 11" Info Insert Changeable	I4.2 11" x 17" Info Insert Changeable	I2.1 Stair ID
----------------------------------	--	--	---	-----------------------------------	--	----------------------------------	--	---	-------------------	---	--	------------------



W2.1
Primary Overhead
Directional



W2.4
Department ID



W3.1
Primary Directional
with Map



W3.2
Secondary Directional
Wall



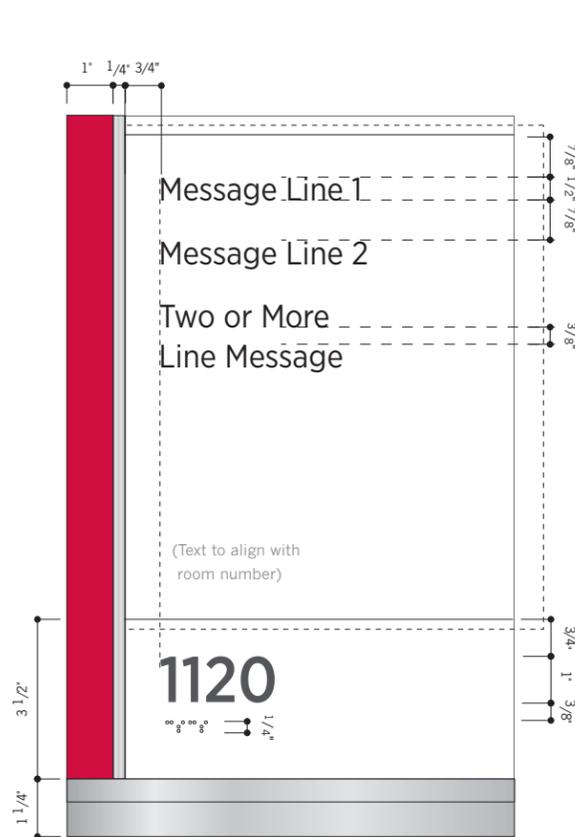
W2.3
Symbols
Flag



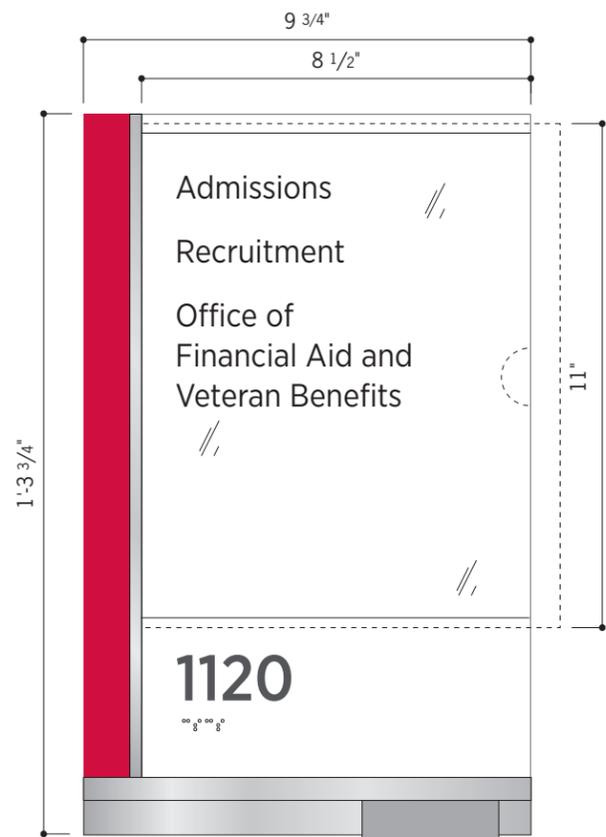
W2.6
Symbols
Flag

LIBRARY
INFORMATION

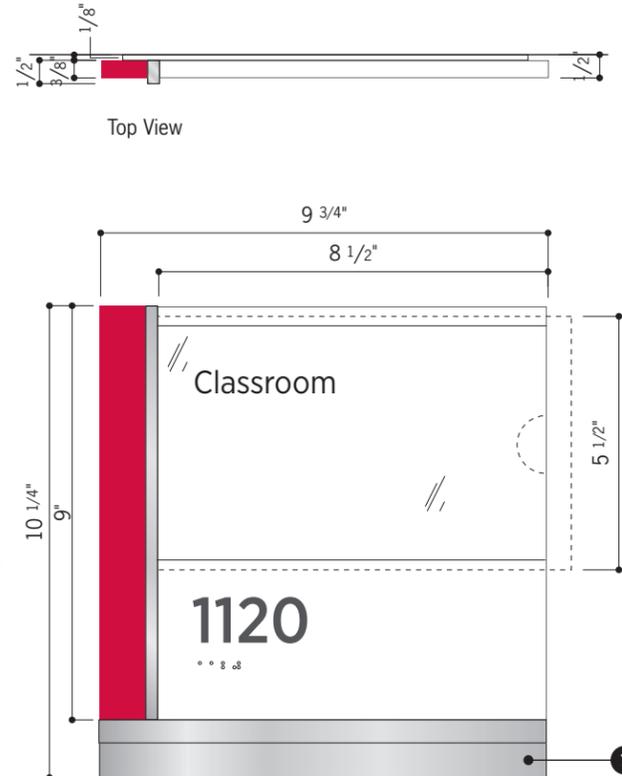
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Scale: 1/2" = 1'-0"



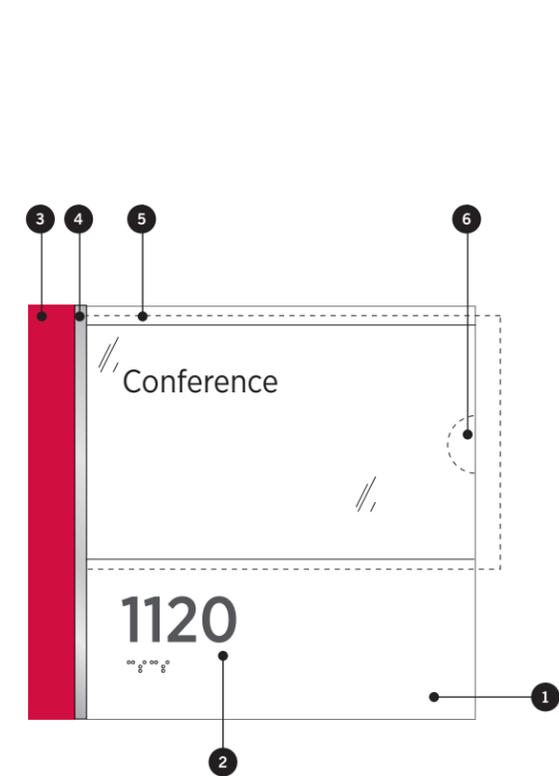
Layout
ELEVATION
Scale: 3"=1'-0"



D1
Department ID
Changeable
w/ Notifier Clip



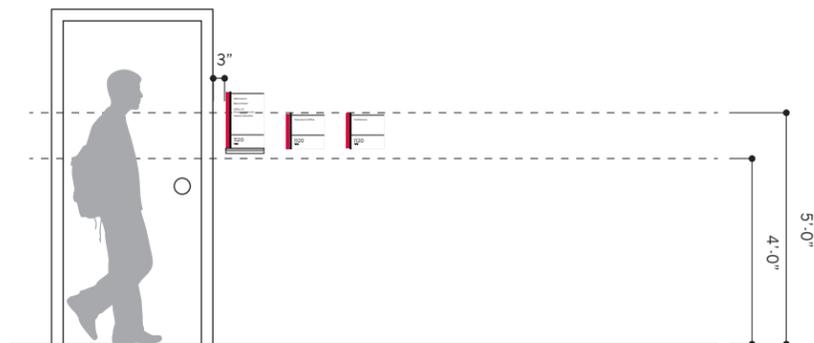
D2/D3
Classroom/Office ID
Changeable
w/ Notifier Clip



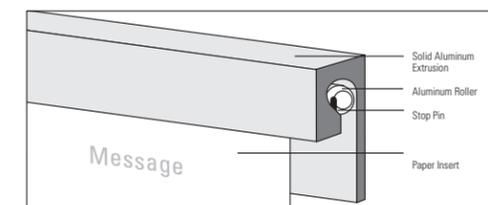
D4
Conference ID
Changeable

SPECIFICATIONS

- 1 Panel and edges painted Matte White (P1)
- 2 Braille/Tactile numbers to match PMS 425
Braille: same color as background
Font: Gotham Narrow Medium
- 3 Accent bar and edges painted to match (color varies see message schedule)
Matte Finish
- 4 Brushed aluminum accent bar, vertical grain
- 5 Insert holder and edges painted Matte White (P1)
- 6 Provide hidden thumb notch for removal of digitally printed paper insert
Font: Gotham Narrow Book
- 7 Notifier Clip
Brushed aluminum



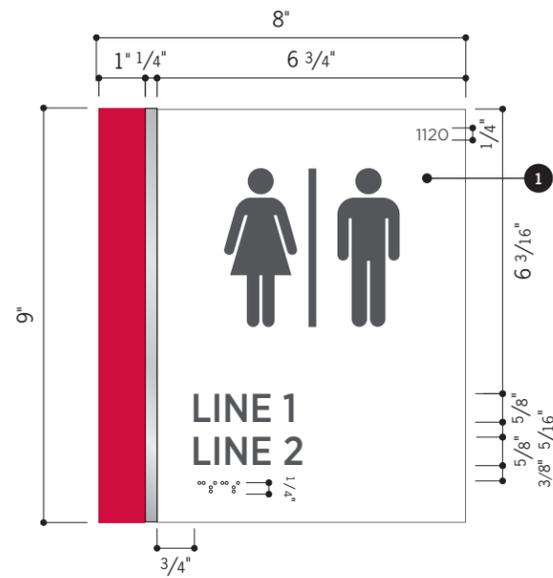
ELEVATION
Scale: 1/4"=1'-0"



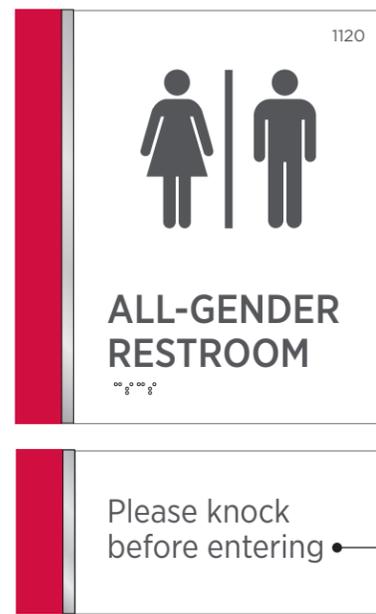
7 Detail of Notifier Clip

SPECIFICATIONS

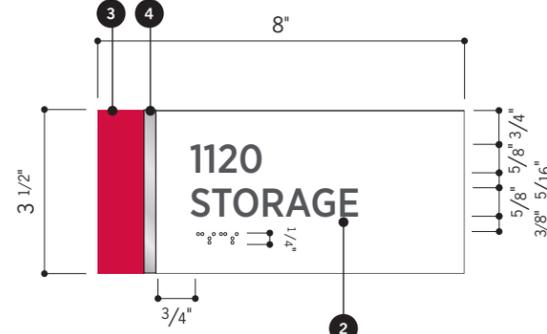
- 1 Panel and edges painted Matte White (P1)
Silkscreened symbol and text in
PMS 425
- 2 Braille/Tactile numbers to match PMS 425
Braille: same color as background
Font: Gotham Narrow Medium
- 3 Accent bar and edges painted to match
(color varies see message schedule)
Matte Finish
- 4 Brushed aluminum accent bar, vertical grain
- 5 Vinyl number applied to interior door frame



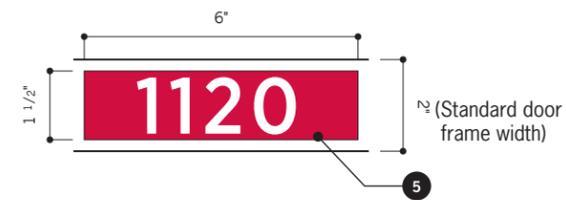
D5
Restroom ID
Permanent
Scale: 3" = 1'-0"



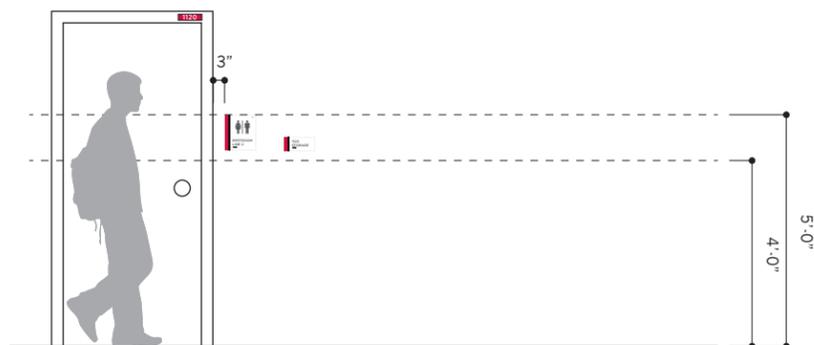
D5.2
Gender Neutral ID
Permanent



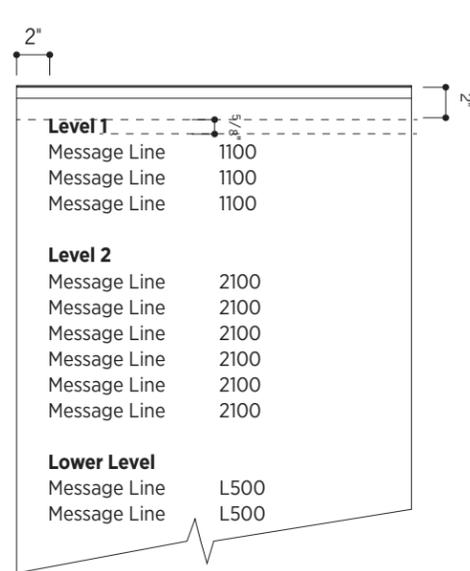
D6
Back of House
Permanent



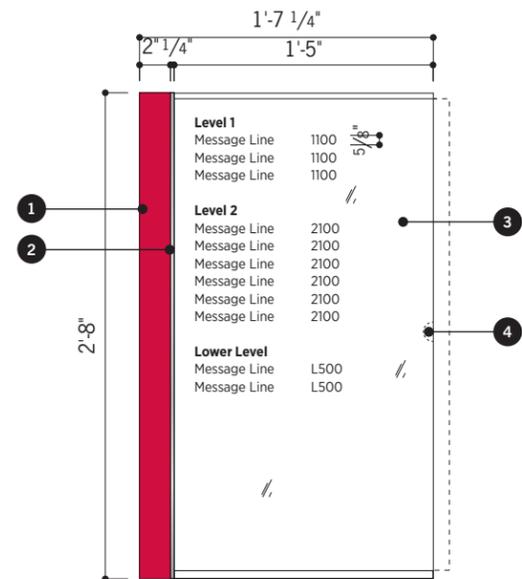
D8
Room ID
Interior Room
Number Tag



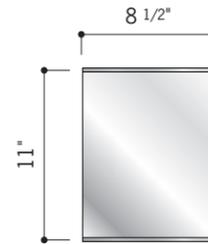
ELEVATION
Scale: 1/4"=1'-0"



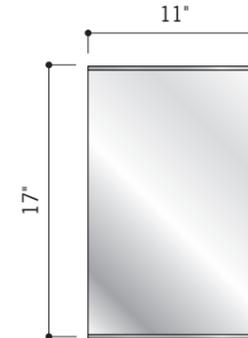
Layout
 Scale: 1 1/2"=1'-0"



I1.1
 Directory
 Scale: 1"=1'-0"



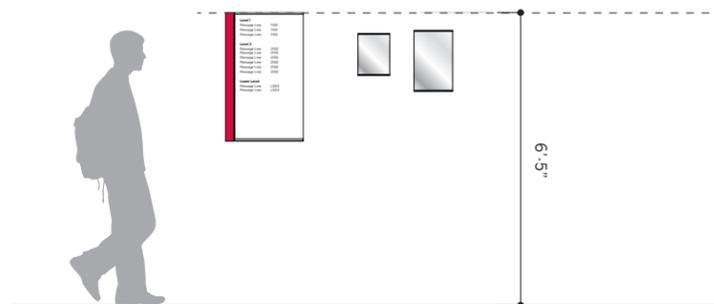
I4.1
 8.5" x 11"
 Changeable Insert



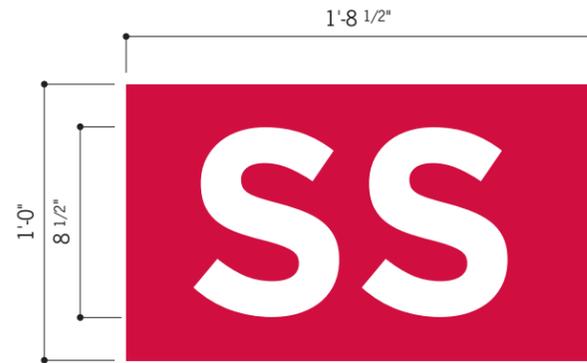
I4.2
 11" x 17"
 Changeable Insert

SPECIFICATIONS

- 1 Accent bar and edges painted to match (color varies see message schedule) Matte Finish
- 2 Brushed aluminum accent bar, vertical grain
- 3 Insert holder and edges painted Matte White (P1)
- 4 Provide hidden thumb notch for removal of digitally printed paper insert
 Font: Gotham Narrow Medium



ELEVATION
 Scale: 1/4"=1'-0"



ELEVATION - I2.1
Scale: 1 1/2" = 1'- 0"

SPECIFICATIONS

- 1 Stair Tags
1/8" thick acrylic panel mechanically fastened to columns
Paint to match zone color with Matthews Paint
Matte vinyl letters
Font: Gotham Bold

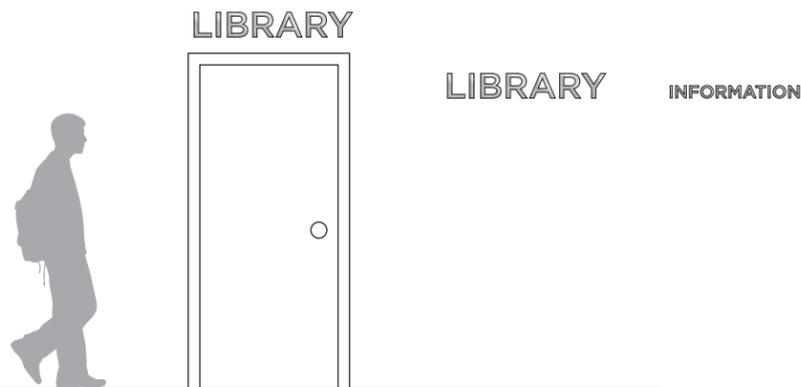


L1.1
Primary
Identification Letters



L1.2
Secondary
Identification Letters

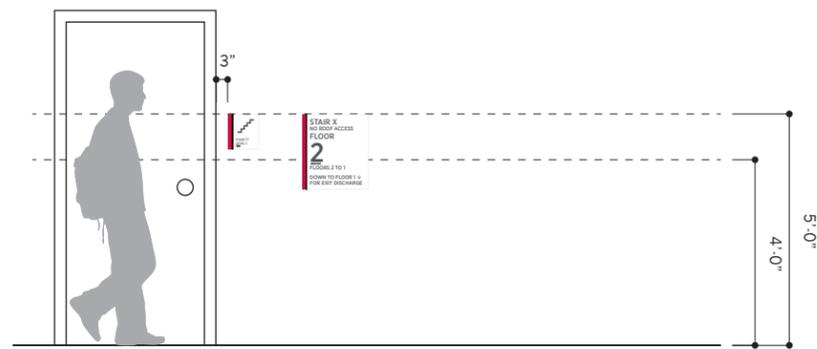
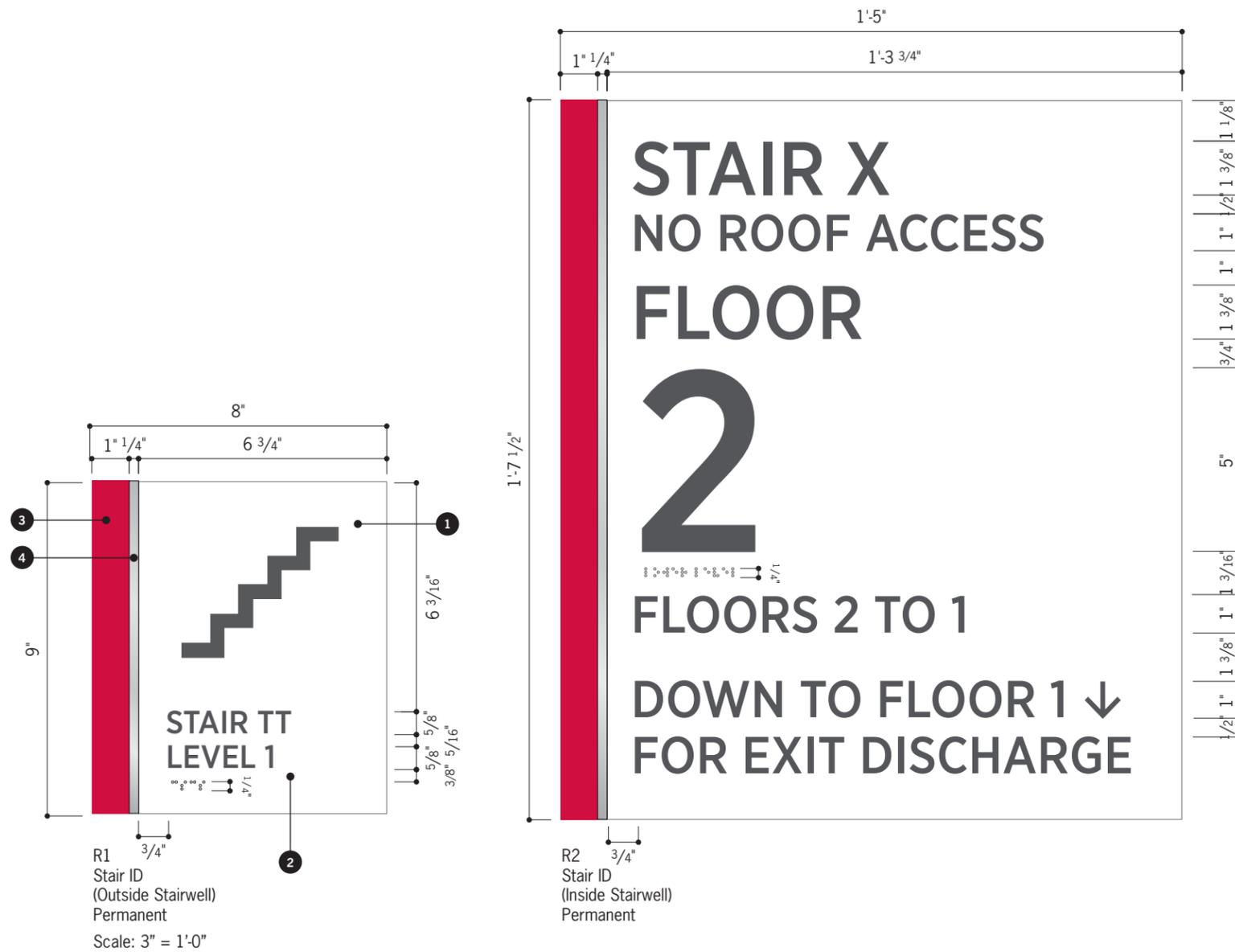
ELEVATION
Scale: 1 1/2"=1'-0"



ELEVATION
Scale: 1/4"=1'-0"

SPECIFICATIONS

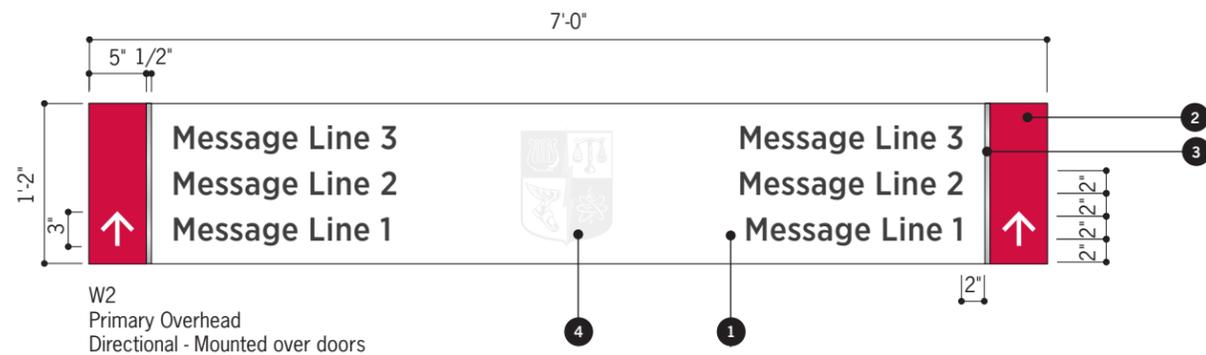
- 1 2" thick brushed aluminum letters
Font: Gotham Medium
 - 2 1" thick brushed aluminum letters
Font: Gotham Medium
- Mounted flush to wall



ELEVATION
Scale: 1/4"=1'-0"

SPECIFICATIONS

- 1 Panel and edges painted Matte White (P1)
Silkscreened symbol PMS 425
- 2 Braille/Tactile numbers to match PMS 425
Braille: same color as background
Font: Gotham Narrow Medium
- 3 Accent bar and edges painted to match
(color varies see message schedule)
Matte Finish
- 4 Brushed aluminum accent bar, vertical grain

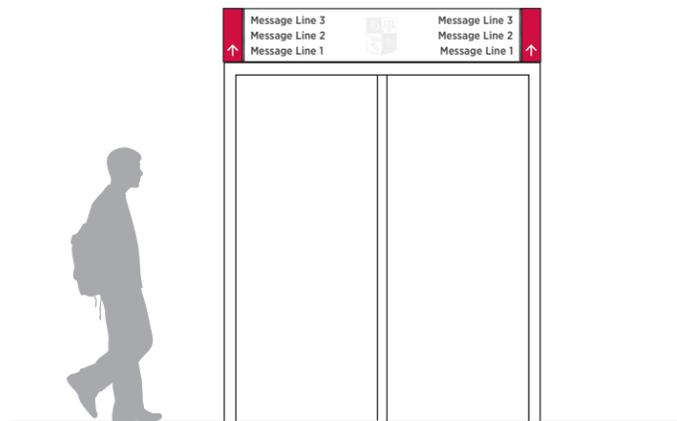


W2
Primary Overhead
Directional - Mounted over doors

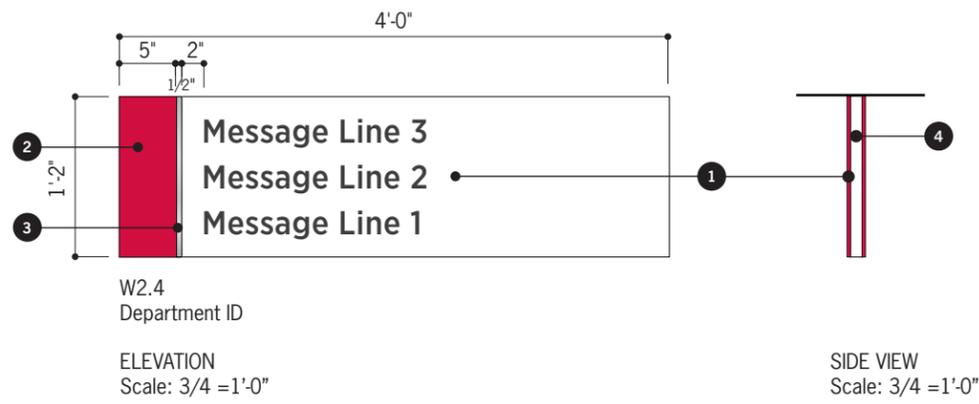
ELEVATION
Scale: 3/4" = 1'-0"

SPECIFICATIONS

- 1 1/8" P95 frosted acrylic back painted
Matte White (P1)
Vinyl letters (V2)
Font: Gotham Narrow Medium
Mounted to door with tape and adhesive
- 2 Arrow field and edges painted first surface to match (color varies see message schedule)
Matte Finish
Vinyl arrows (V1)
- 3 Vinyl brushed aluminum accent bar (V3)
- 4 Silkscreened "ghosted" logo second surface

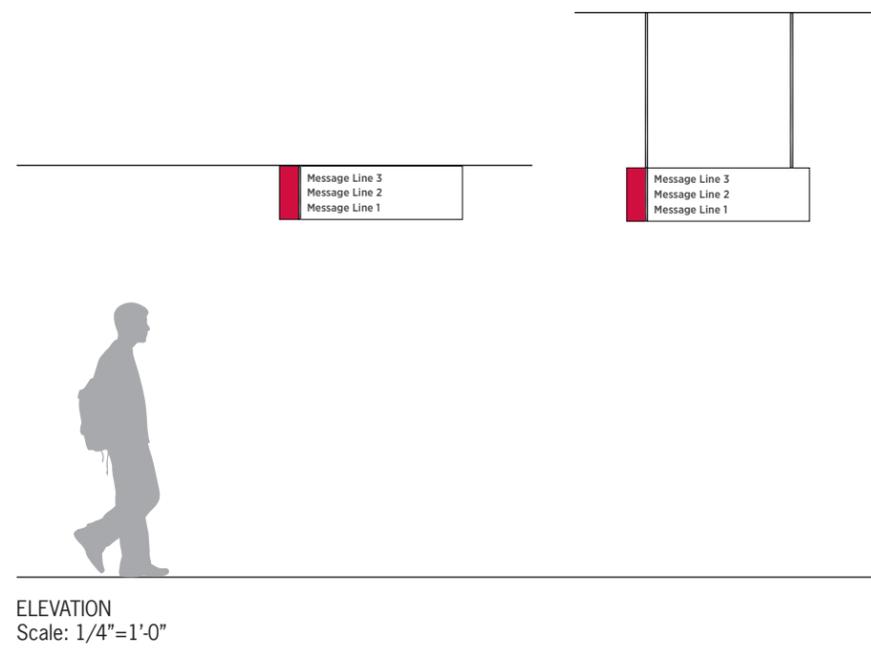


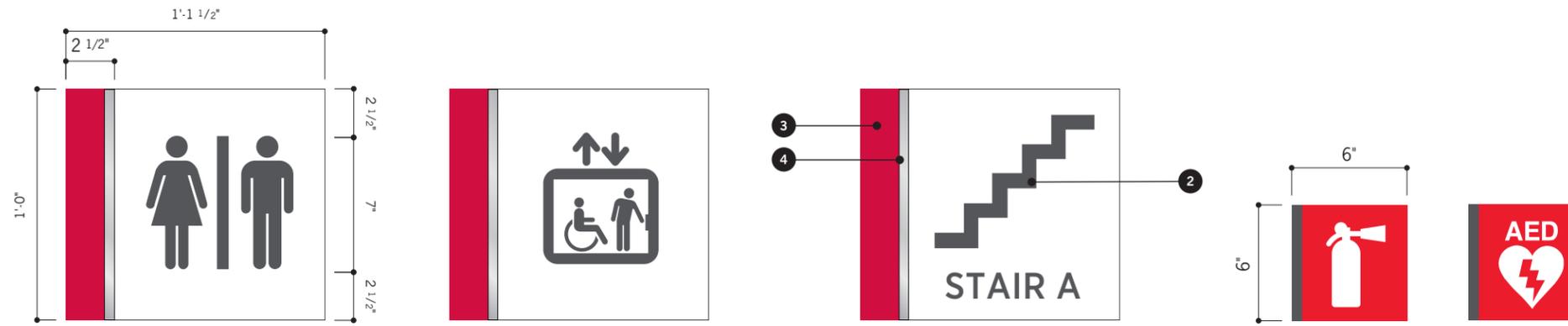
ELEVATION
Scale: 1/4" = 1'-0"



SPECIFICATIONS

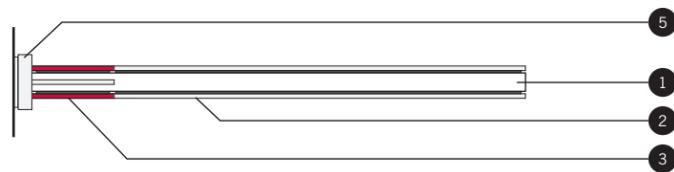
- 1 1/8" P95 frosted acrylic back painted Matte White (P1)
Vinyl letters (V2)
Font: Gotham Narrow Medium
 - 2 Color field and edges painted first surface to match (color varies see message schedule)
 - 3 Vinyl brushed aluminum accent bar (V3)
 - 4 1"x1" aluminum tube frame, flush mount to ceiling or suspend with aluminum rods
- Panels mounted to sign frame with D/F tape





W2.3
Symbols
Flag

ELEVATION
Scale: 1 1/2" = 1'-0"



ELEVATION - Plan View
Scale: 1:5

W2.6
Symbols
Flag



ELEVATION
Scale: 1/4" = 1'-0"

SPECIFICATIONS

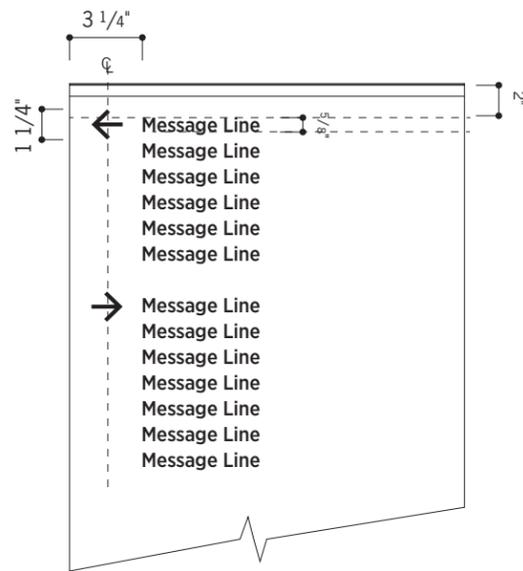
- 1 **Sign Core**
1/2" thick acrylic with routed slot at rear (P1)
- 2 **Sign Face**
1/8" P95 frosted acrylic back painted Matte White (P1)
Vinyl letters (V2)
Font: Gotham Narrow Medium
1/16" VHB mount to sign core
- 3 **Color Accent**
1/8" Acrylic
Color field and edges painted to match (color varies see message schedule)
1/16" VHB mount to sign core
- 4 Vinyl brushed aluminum accent bar (V3)
- 5 **CMT-M**
2-Part Extruded Aluminum Track - by APCO
Color: Natural Satin, Per Sign Standard

"T" Bracket
Extruded Aluminum - by APCO

Wall Bracket
Extruded Aluminum - by APCO
Mechanically fasten to Wall Surface w/ appropriate anchor

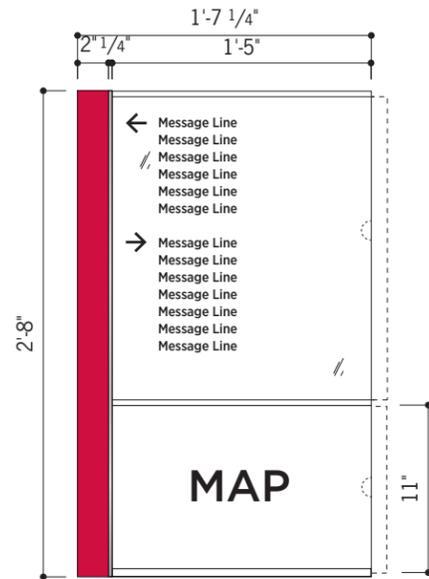
Set Screw
Spacing + Qty. as required, to secure Brackets

Inset Cap for "T" Bracket Extrusion
Molded Nylon - by APCO



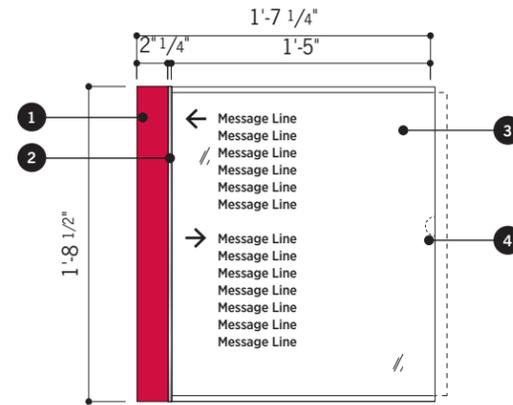
Layout

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



W3.1
Primary Wall Directional
with Map

Scale: 1"=1'-0"



W3.2
Secondary Wall Directional

Scale: 1"=1'-0"

SPECIFICATIONS

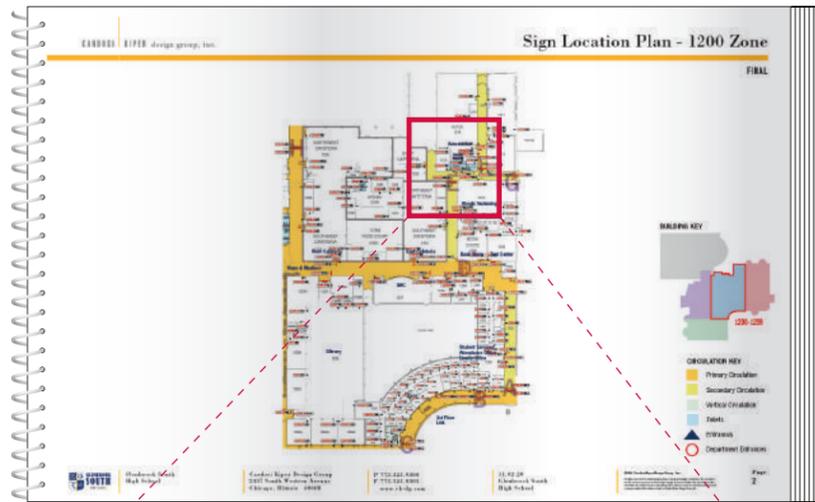
- 1 Accent bar and edges painted to match (color varies see message schedule)
Matte Finish
- 2 Brushed aluminum accent bar, vertical grain
- 3 Insert holder and edges painted Matte White (P1)
- 4 Provide hidden thumb notch for removal of digitally printed paper insert
Font: Gotham Narrow Medium



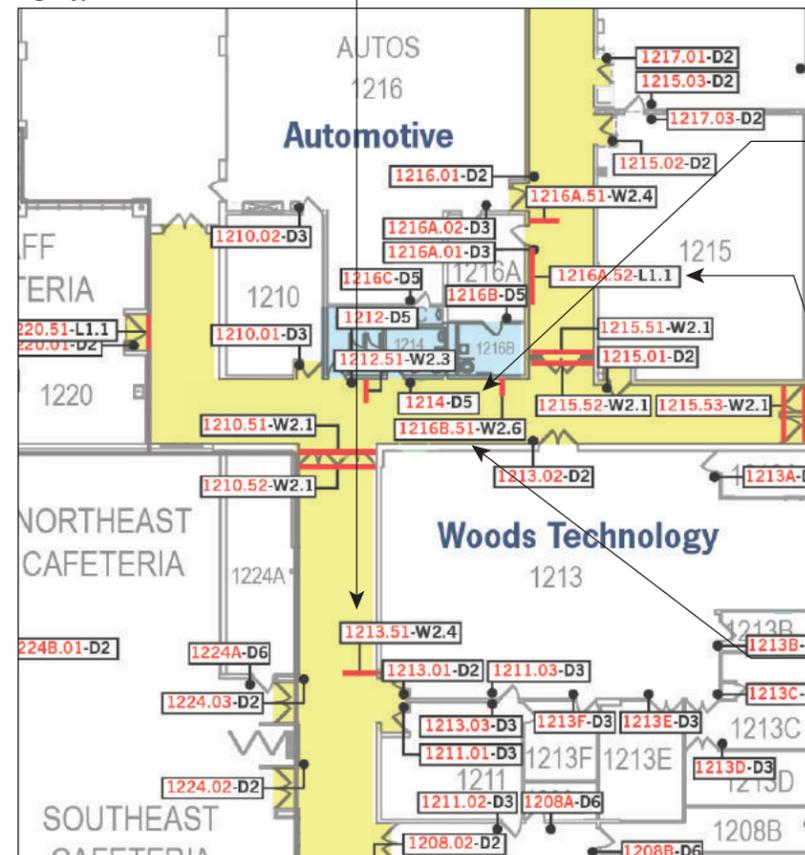
ELEVATION

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

Sign Type Overview



Sign Type Overview (Detail)



Message Schedule

Glenbrook South High School - Message Schedule							
File Edit View Insert Format Data Tools Add-ons Help Last edit was 2 minutes ago							
fx 100% \$ % .0_ .00 123 Default (Ari... 10 B I U A							
CARDOSI KIPER design group, inc.							
	A	B	C	D	E	F	G
3	Level	Zone	Sign Location #	Room Number	Sign Type	Sign Message	Department Name
299	1	1200	1213.02	1213	D2	TBD	
300	1	1200	1213.03	1213	D2	TBD	
301	1	1200	1213.51	1213	W2.4	Woods Technology	
302	1	1200	1213A	1213A	D6	TBD	
303	1	1200	1213B	1213B	D6	TBD	
304	1	1200	1213C	1213C	D3	TBD	
305	1	1200	1213D	1213D	D3	TBD	
306	1	1200	1213E	1213E	D3	TBD	
307	1	1200	1213F	1213F	D3	TBD	
308	1	1200	1214	1214	D5	(MEN & WOMAN SYMBOL) RESTROOM	
309	1	1200	1215.01	1215	D2	TBD	
310	1	1200	1215.02	1215	D2	TBD	
311	1	1200	1215.03	1215	D2	TBD	
312	1	1200	1215.51	1215	W2.1	See Layout	
313	1	1200	1215.52	1215	W2.1	See Layout	
314	1	1200	1215.53	1215	W2.1	See Layout	
315	1	1200	1215.54	1215	W2.1	See Layout	
316	1	1200	1216.01	1216	D2	TBD	
317	1	1200	1216.02	1216	D2	TBD	
318	1	1200	1216A.01	1216A	D3	Applied Technology Gallery	
319	1	1200	1216A.02	1216A	D3	Applied Technology Gallery	
320	1	1200	1216A.51	1216A	W2.4	Applied Technology Gallery	
321	1	1200	1216A.52	1216A	L1.1	APPLIED TECHNOLOGY GALLERY	
322	1	1200	1216B	1216B	D5	(MEN & WOMAN SYMBOL) RESTROOM	
323	1	1200	1216B.51	1216B	W2.6	(Fire Extinguisher Symbol)	
324	1	1200	1216C	1216C	D5	(MEN & WOMAN SYMBOL) RESTROOM	
325	1	1200	1216D	1216D	D3	TBD	
326	1	1200	1217.01	1217	D2	TBD	
327	1	1200	1217.02	1217	D2	TBD	

Woods Technology - 1213

Sign Type W2.4
Overhead ID



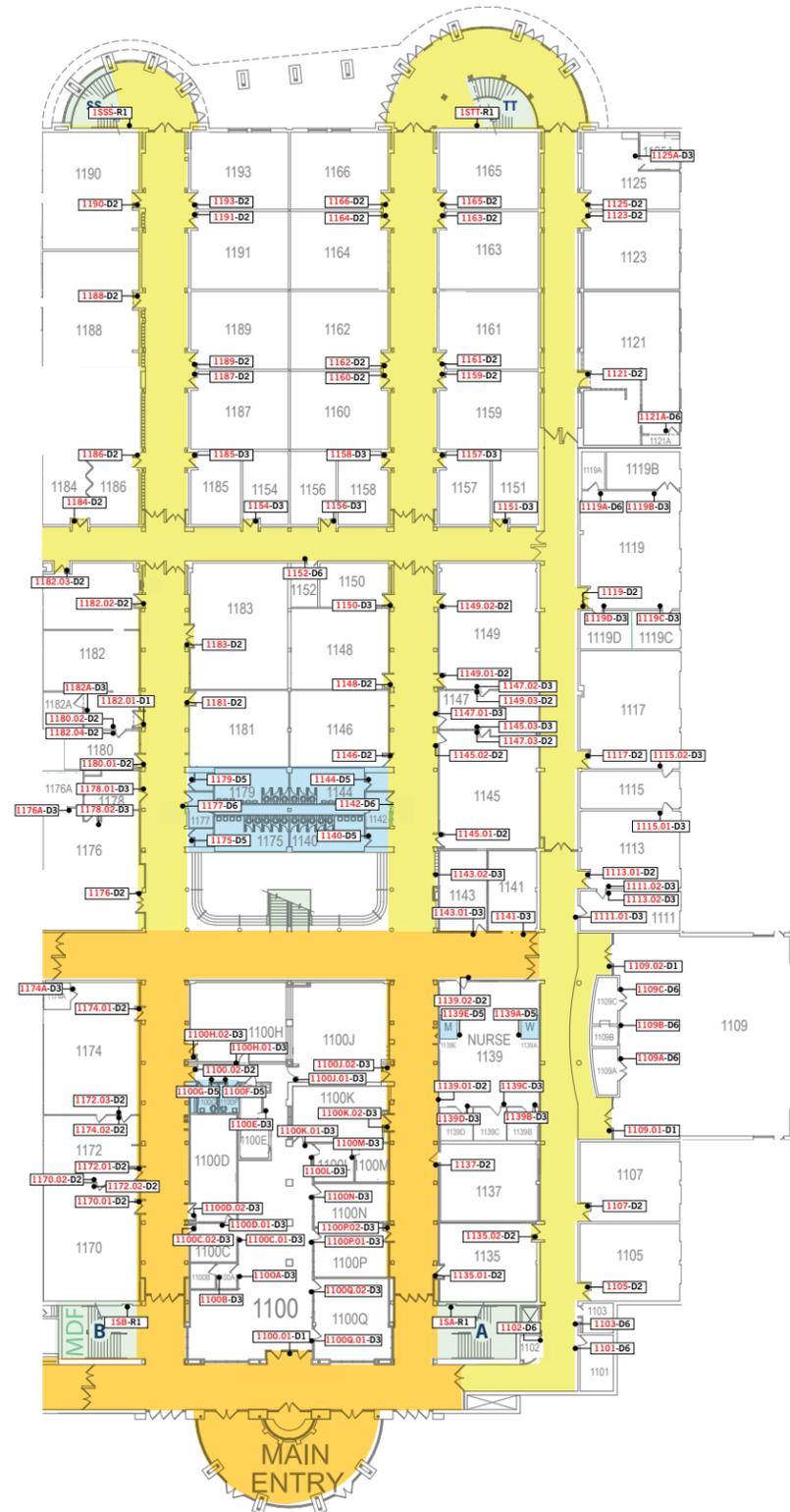
Sign Type D5
Restroom ID

APPLIED TECHNOLOGY GALLERY

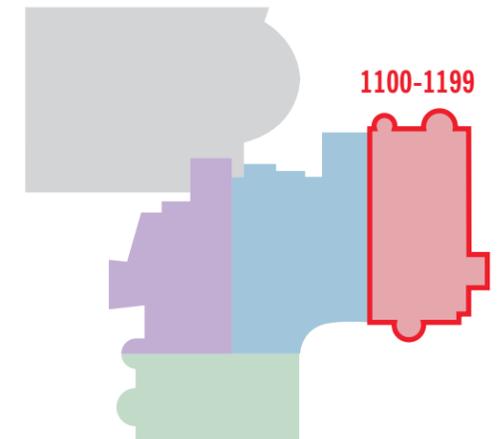
Sign Type L1.1
Dimensional Letters



Sign Type W2.6
Fire Extinguisher Symbol Flag ID

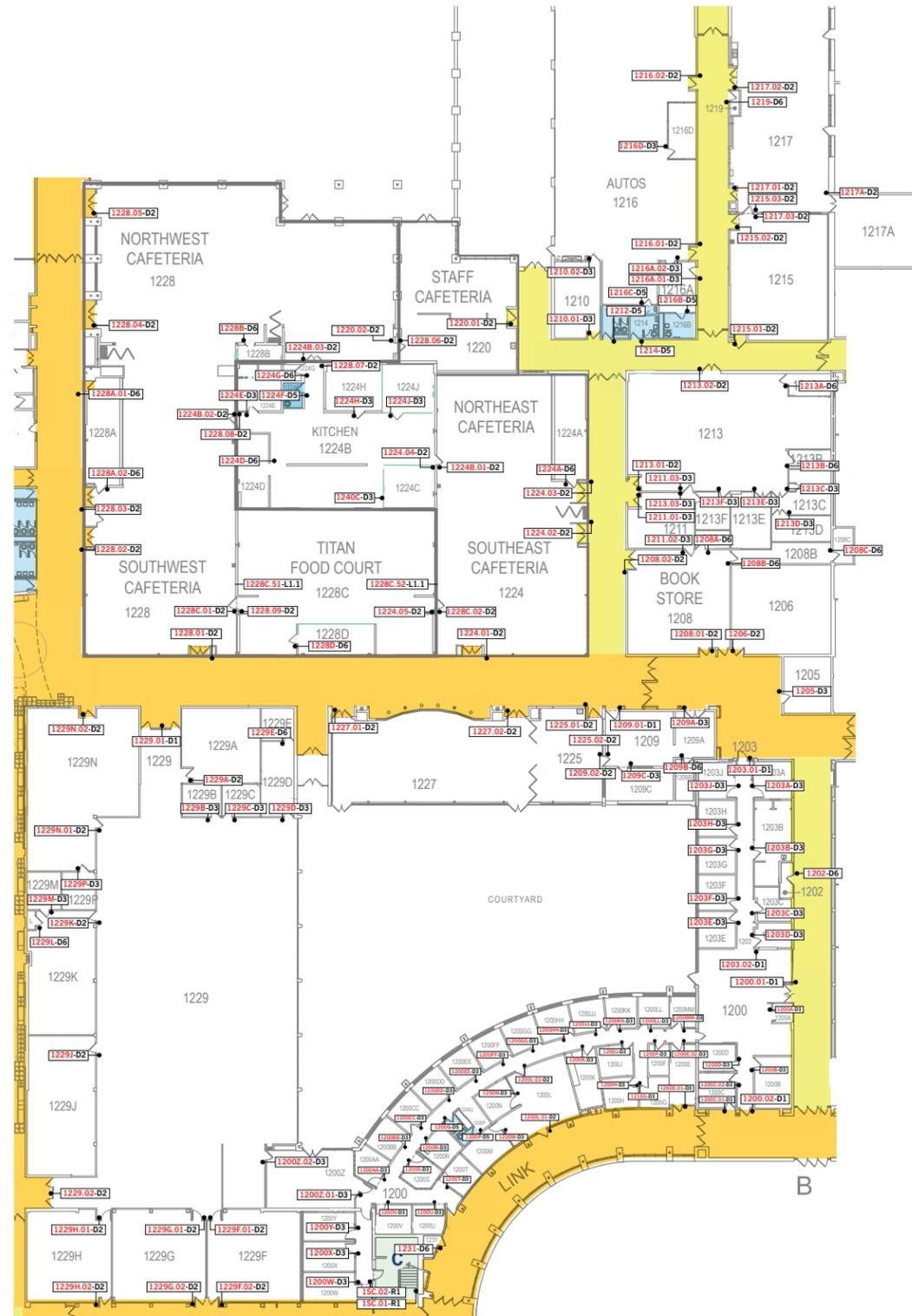


BUILDING KEY

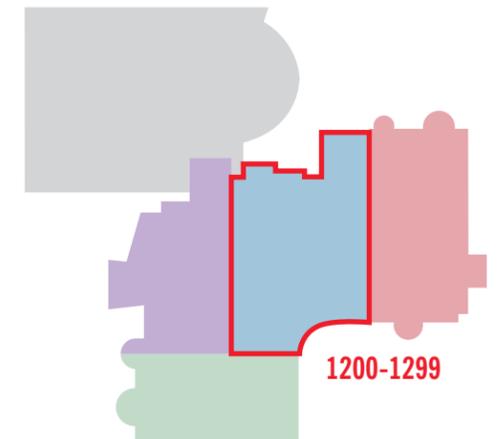


CIRCULATION KEY

- Primary Circulation
- Secondary Circulation
- Vertical Circulation
- Toilets
- Entrances
- Department Entrances

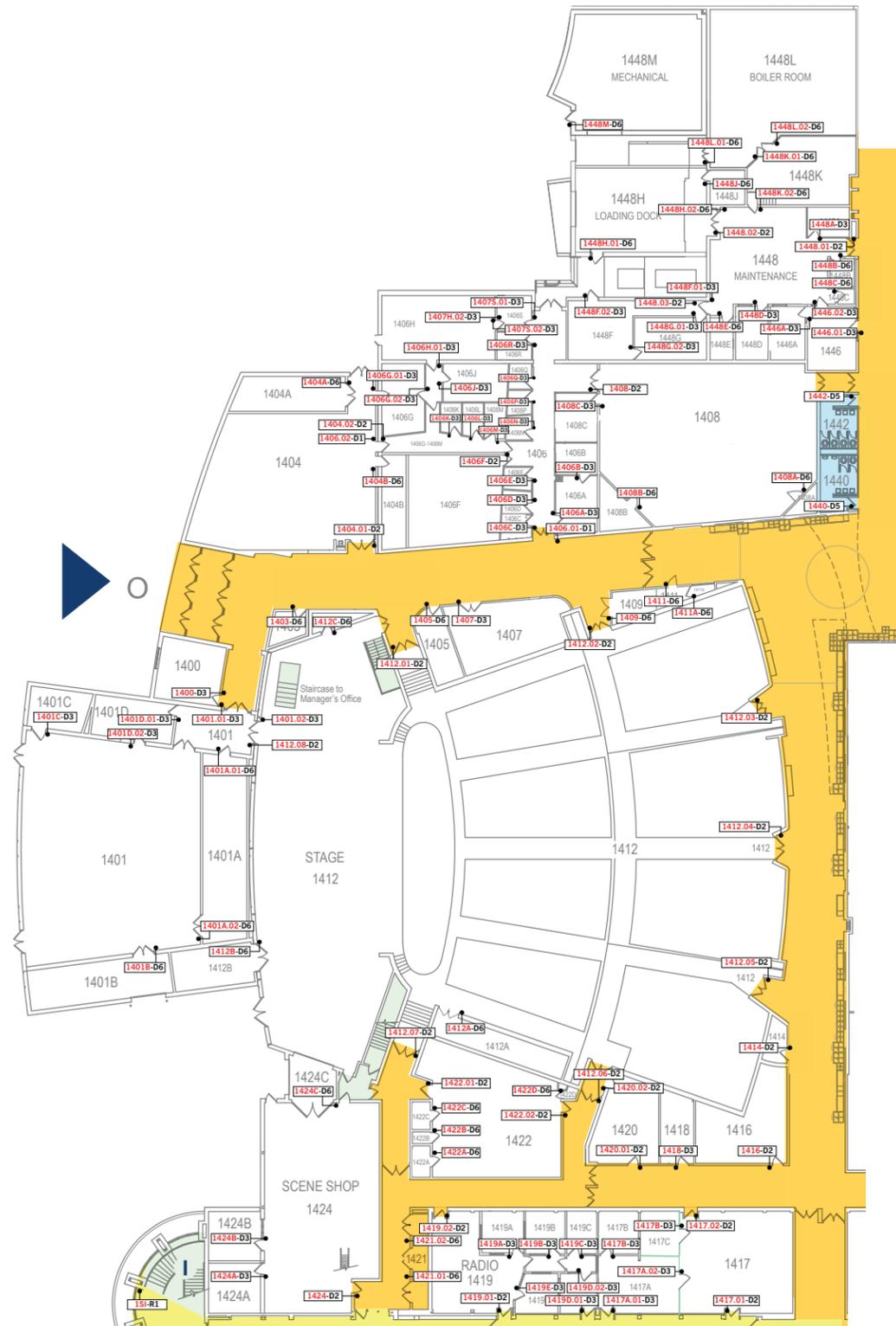


BUILDING KEY

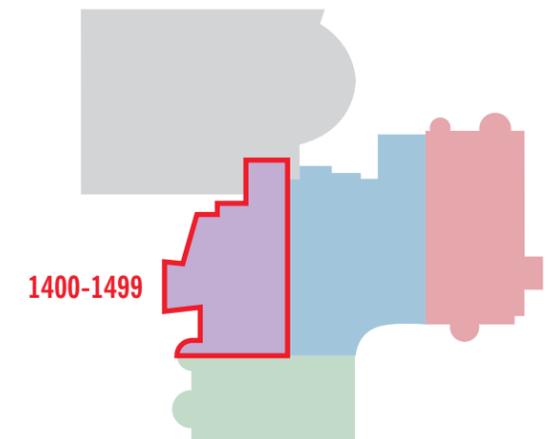


CIRCULATION KEY

- Primary Circulation
- Secondary Circulation
- Vertical Circulation
- Toilets
- Entrances
- Department Entrances

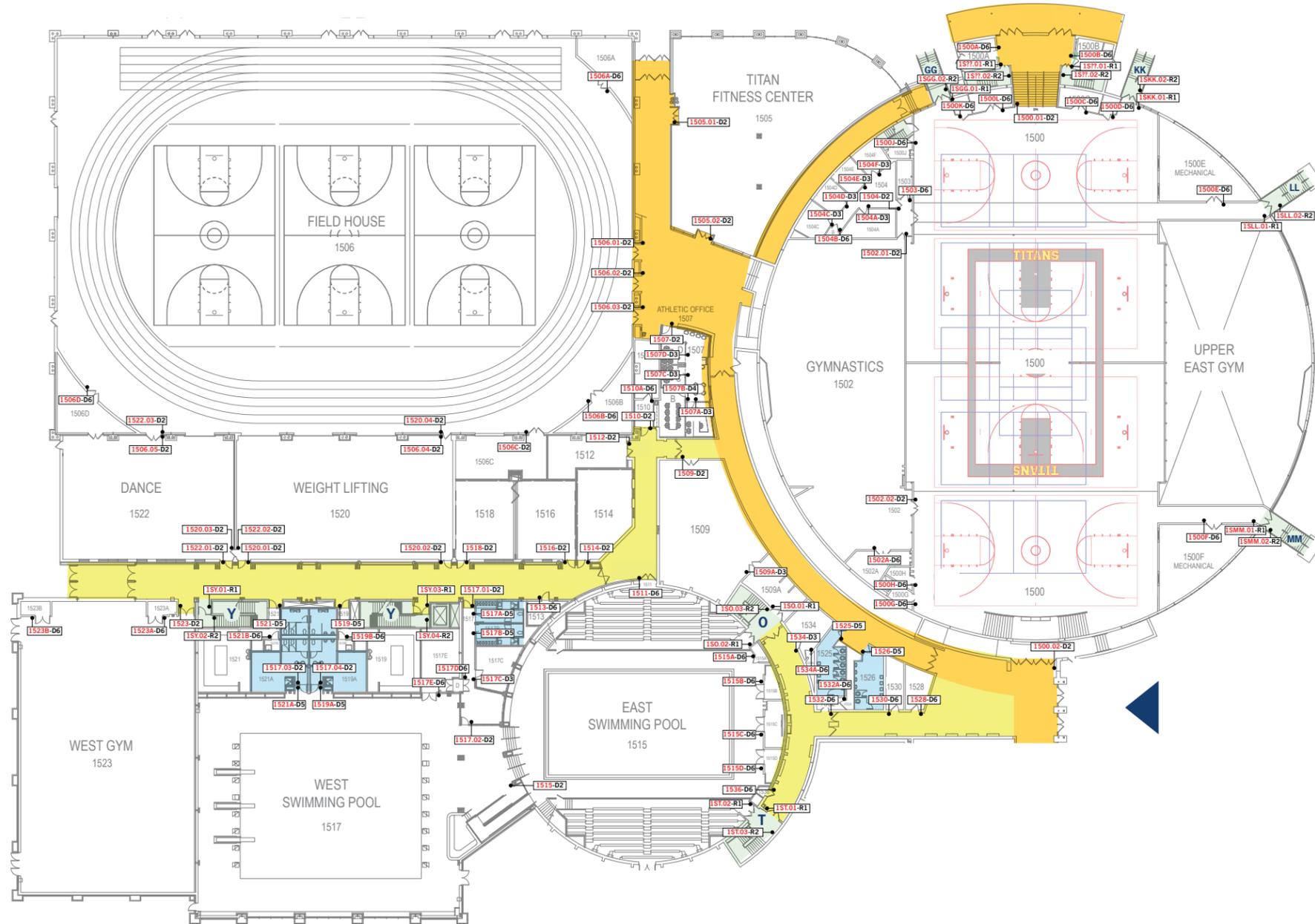


BUILDING KEY

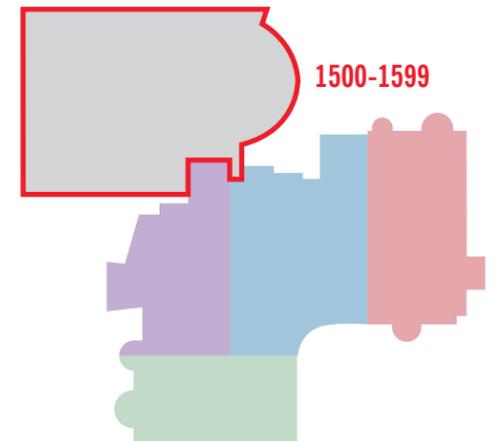


CIRCULATION KEY

- Primary Circulation
- Secondary Circulation
- Vertical Circulation
- Toilets
- Entrances
- Department Entrances



BUILDING KEY

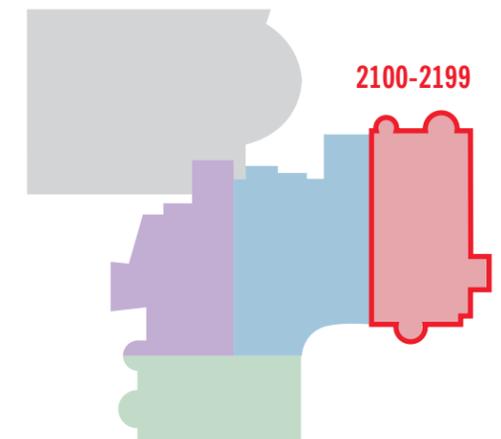


CIRCULATION KEY

- Primary Circulation
- Secondary Circulation
- Vertical Circulation
- Toilets
- Entrances
- Department Entrances

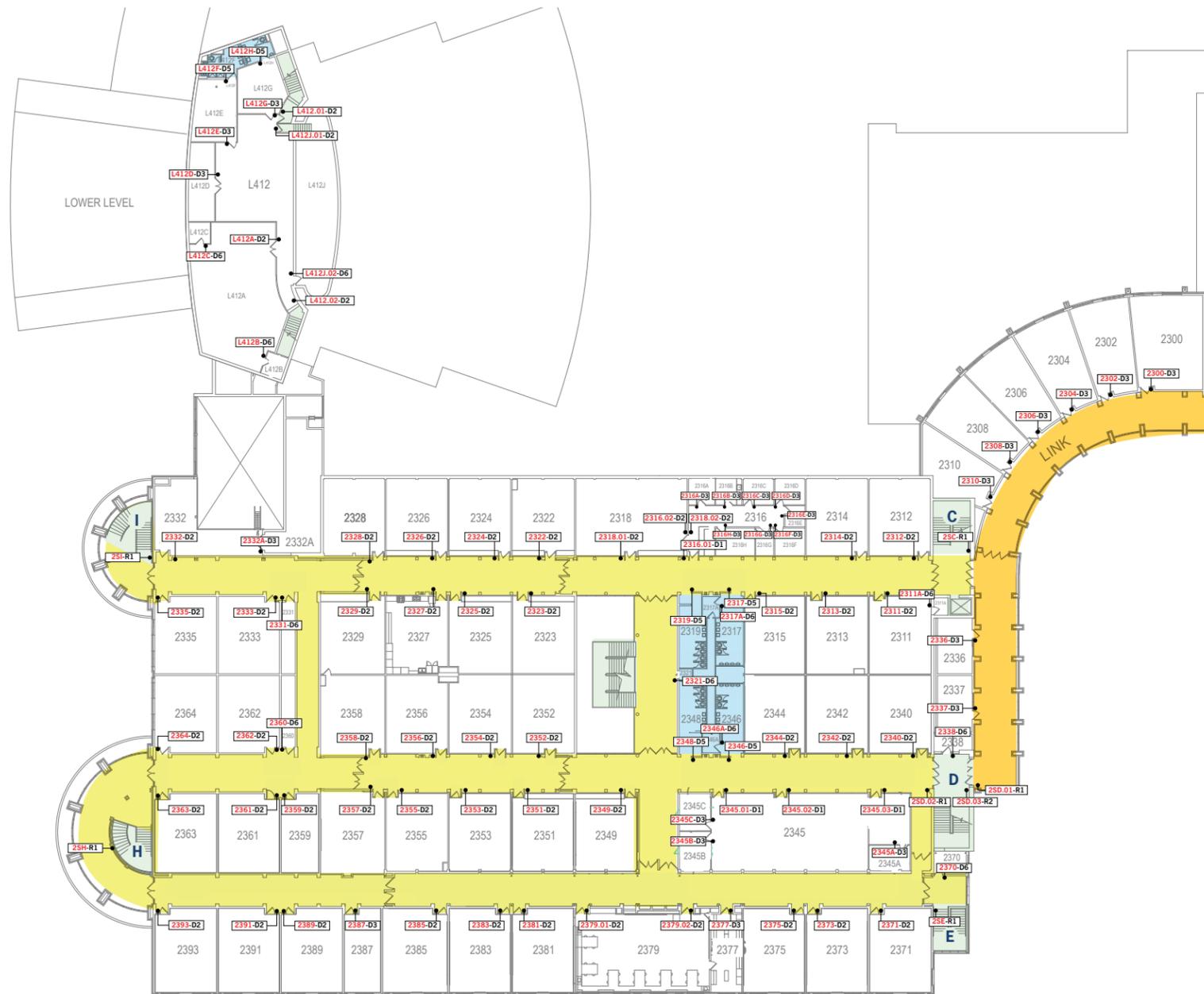


BUILDING KEY

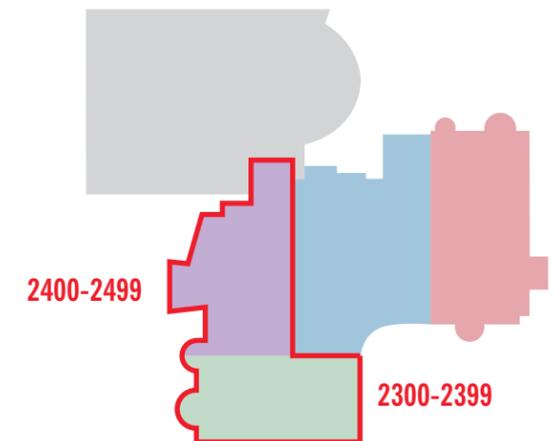


CIRCULATION KEY

- Primary Circulation
- Secondary Circulation
- Vertical Circulation
- Toilets
- Entrances
- Department Entrances

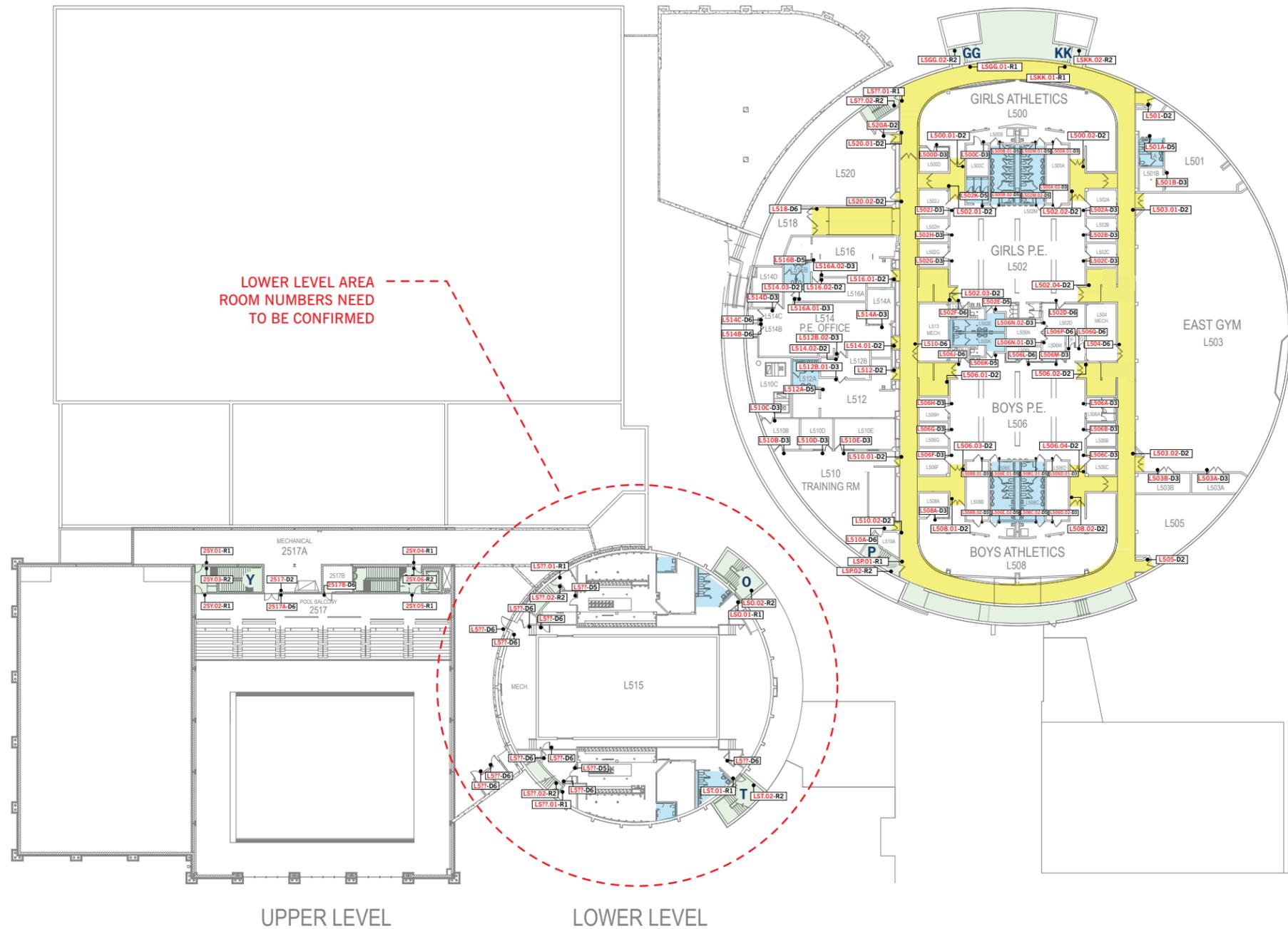


BUILDING KEY

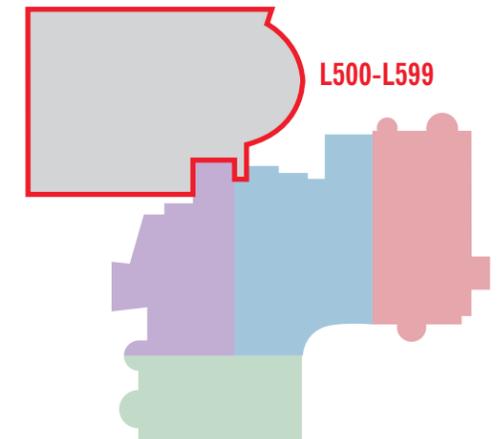


CIRCULATION KEY

- Primary Circulation
- Secondary Circulation
- Vertical Circulation
- Toilets
- Entrances
- Department Entrances

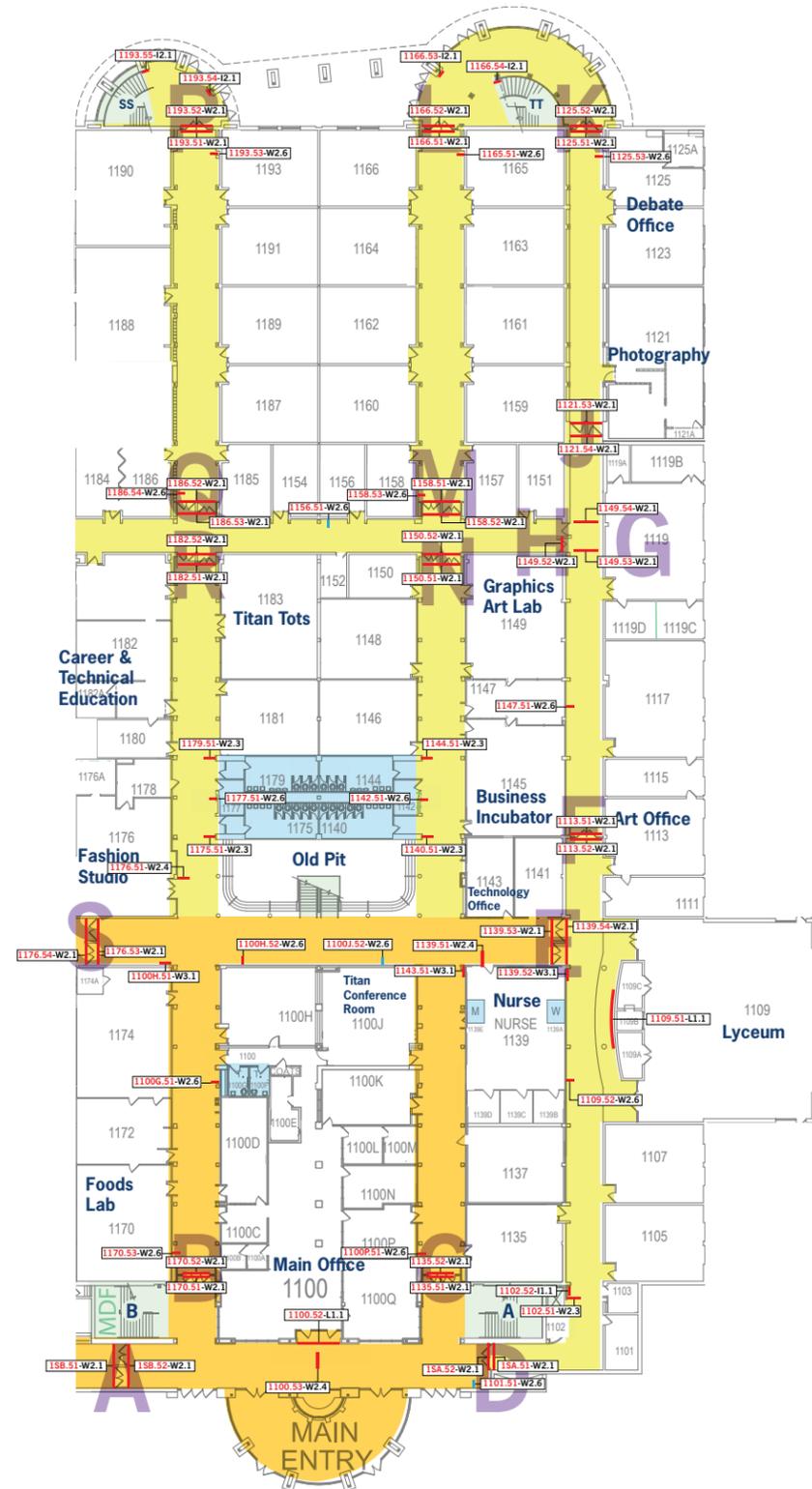


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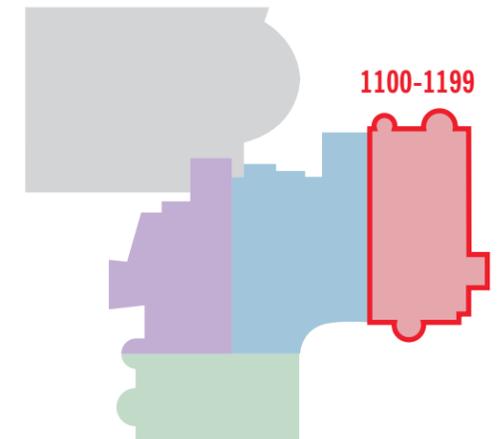


CIRCULATION KEY

- Primary Circulation
- Secondary Circulation
- Vertical Circulation
- Toilets
- Entrances
- Department Entrances

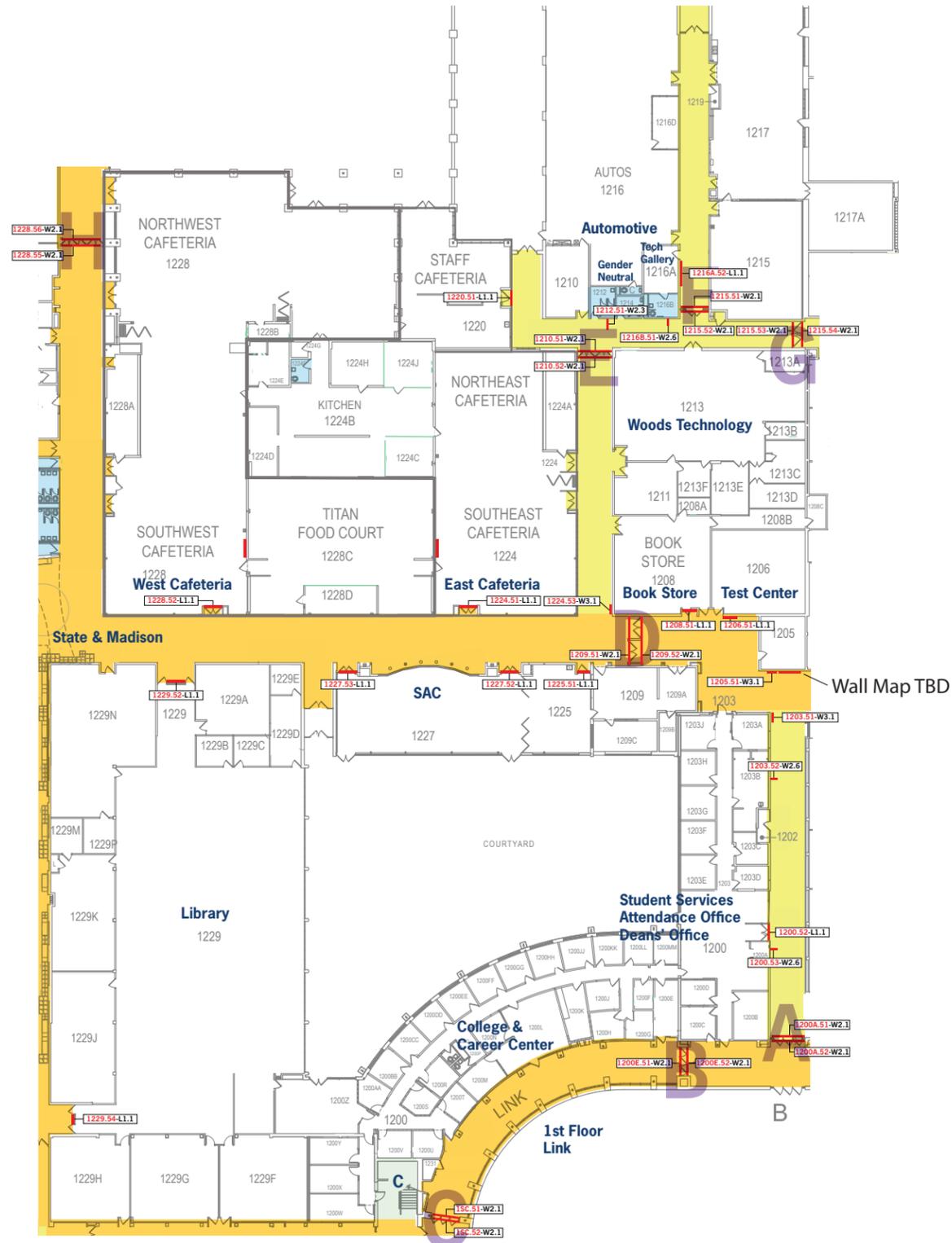


BUILDING KEY

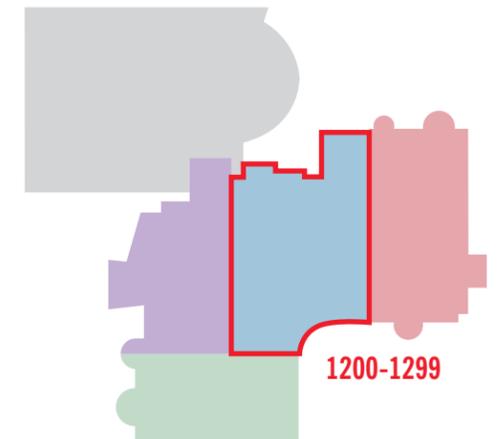


CIRCULATION KEY

- Primary Circulation
- Secondary Circulation
- Vertical Circulation
- Toilets
- Entrances
- Department Entrances



BUILDING KEY

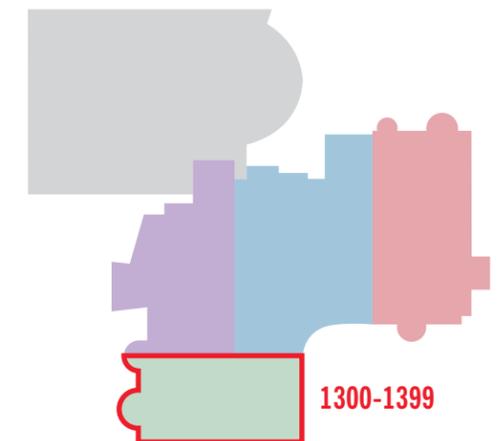


CIRCULATION KEY

- Primary Circulation
- Secondary Circulation
- Vertical Circulation
- Toilets
- Entrances
- Department Entrances

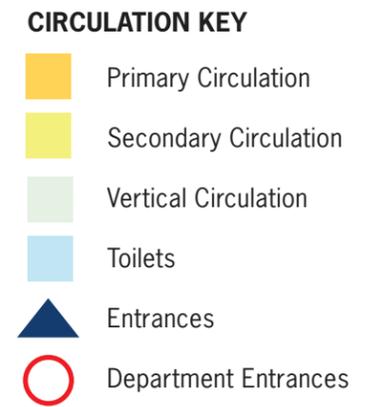
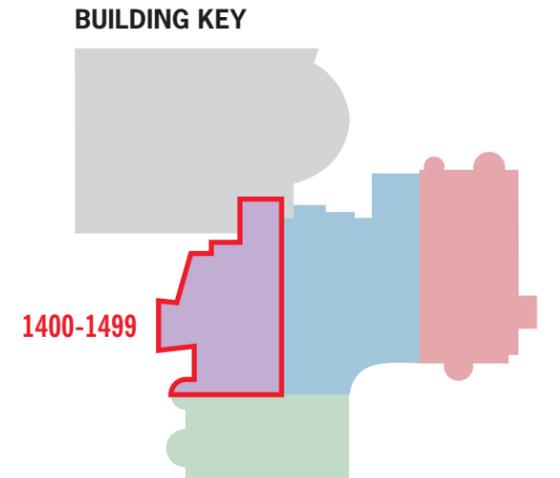


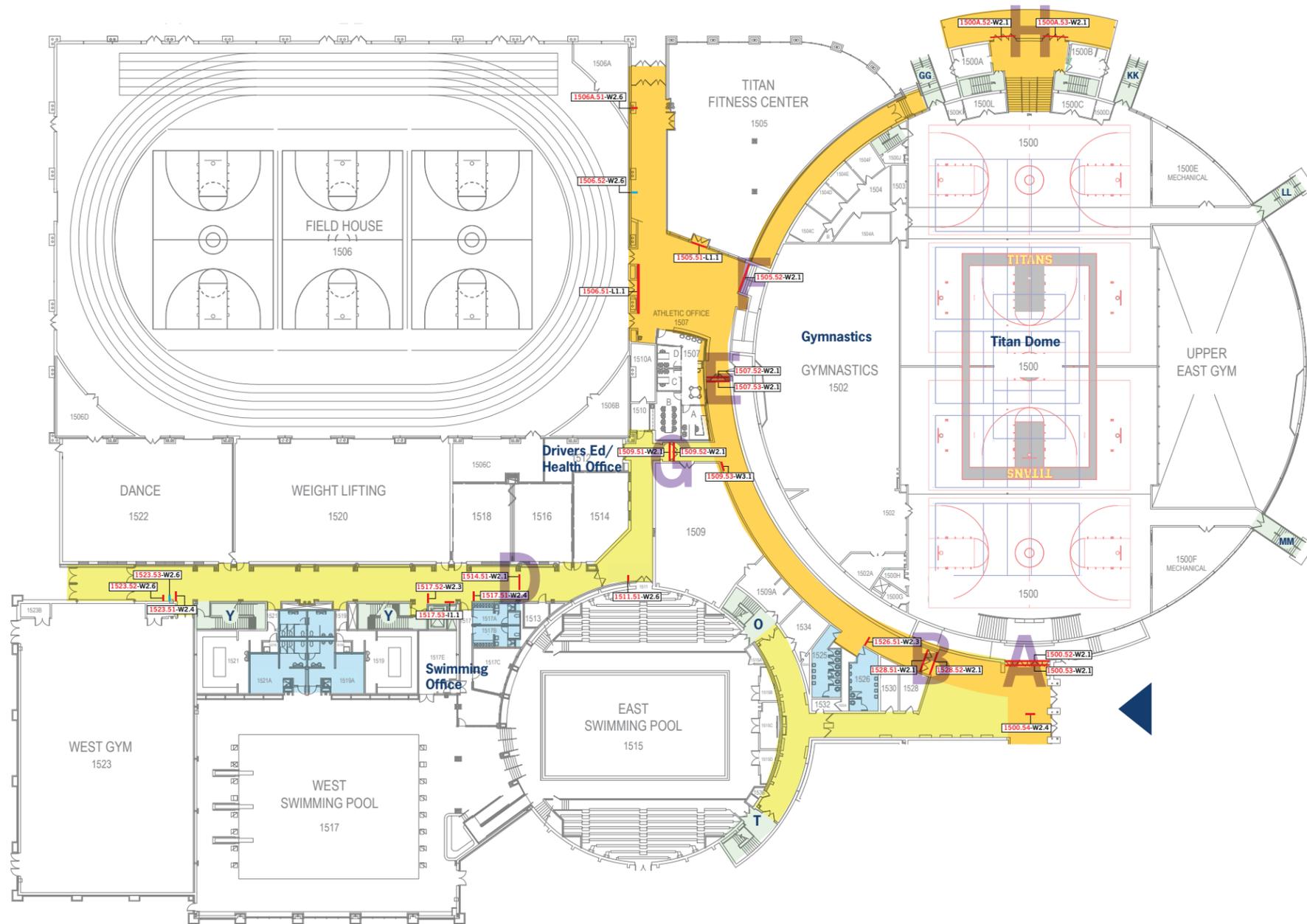
BUILDING KEY



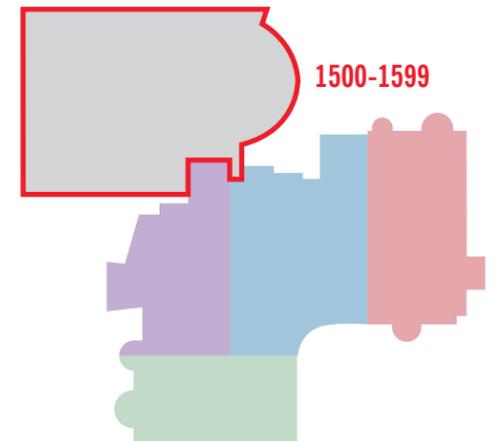
CIRCULATION KEY

- Primary Circulation
- Secondary Circulation
- Vertical Circulation
- Toilets
- Entrances
- Department Entrances



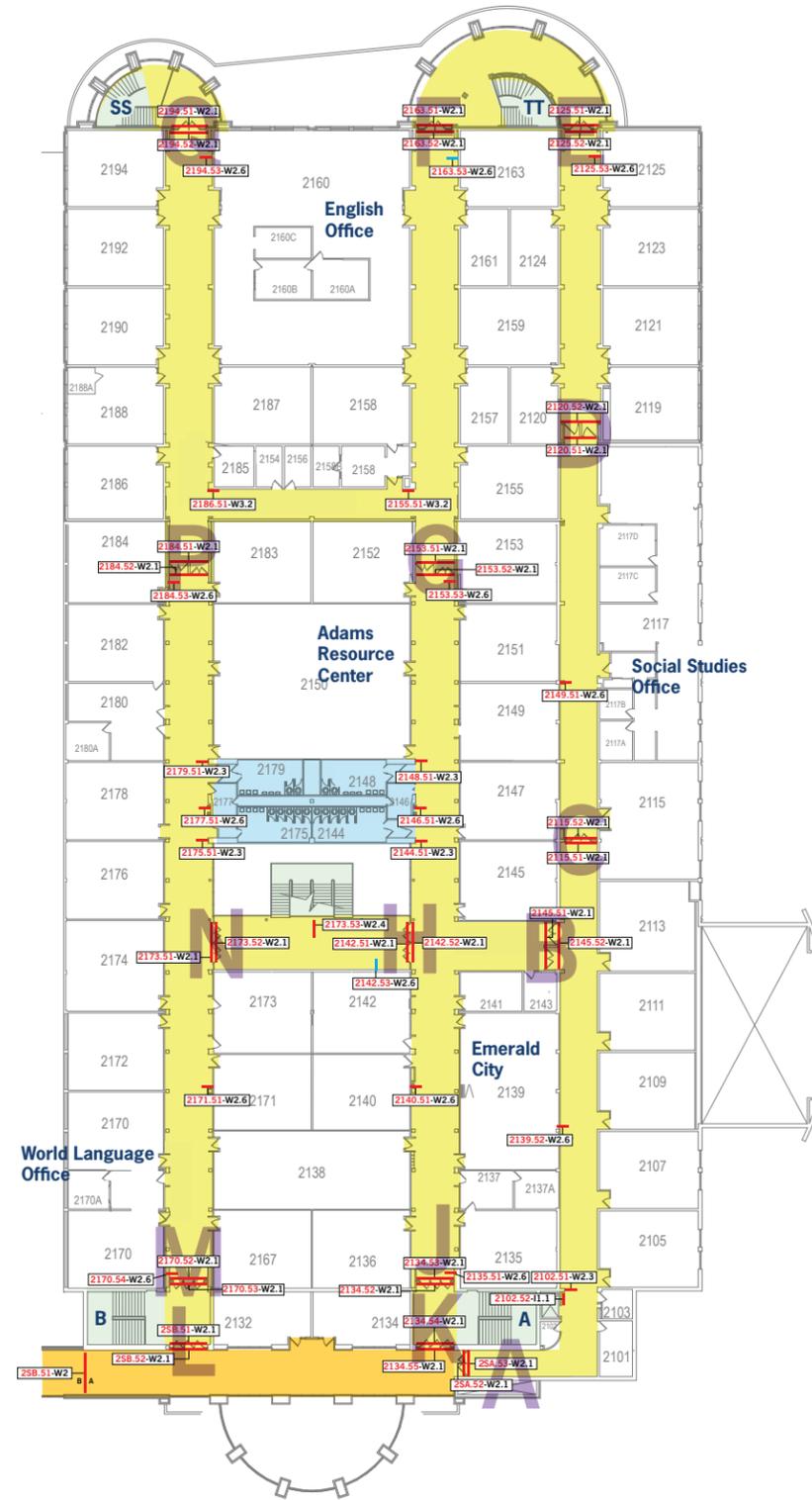


BUILDING KEY

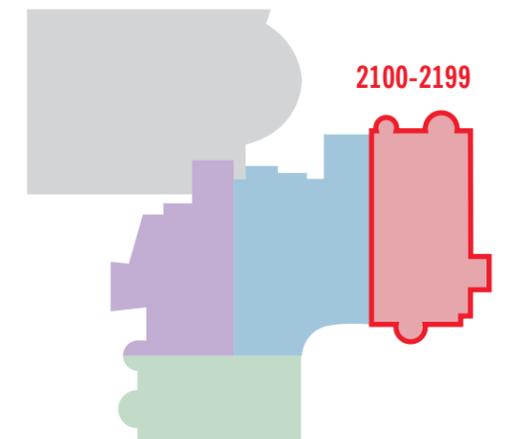


CIRCULATION KEY

- Primary Circulation
- Secondary Circulation
- Vertical Circulation
- Toilets
- Entrances
- Department Entrances



BUILDING KEY

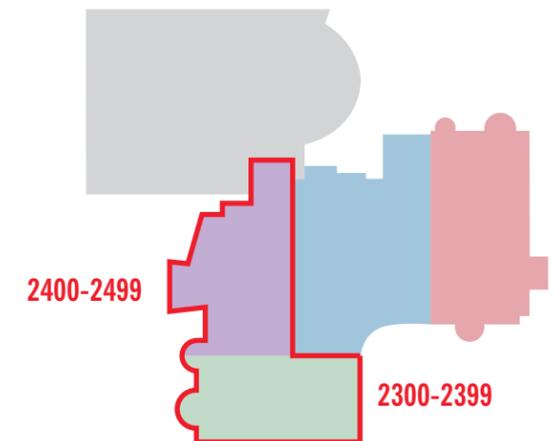


CIRCULATION KEY

- Primary Circulation
- Secondary Circulation
- Vertical Circulation
- Toilets
- Entrances
- Department Entrances

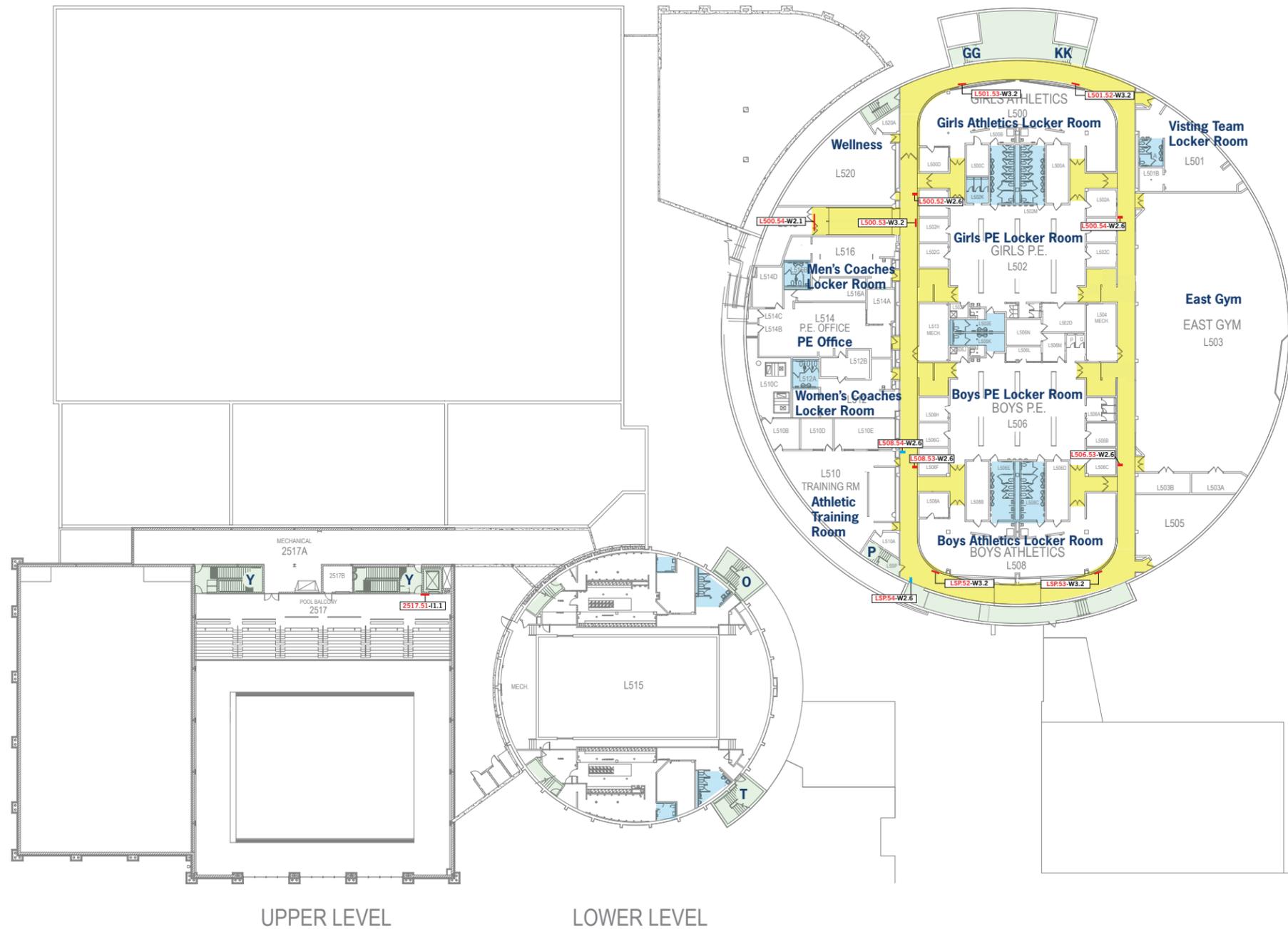


BUILDING KEY

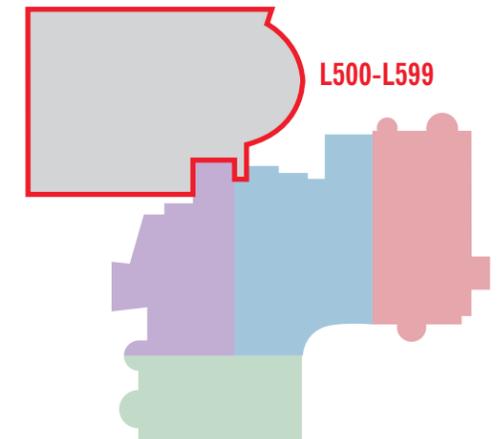


CIRCULATION KEY

- Primary Circulation
- Secondary Circulation
- Vertical Circulation
- Toilets
- Entrances
- Department Entrances

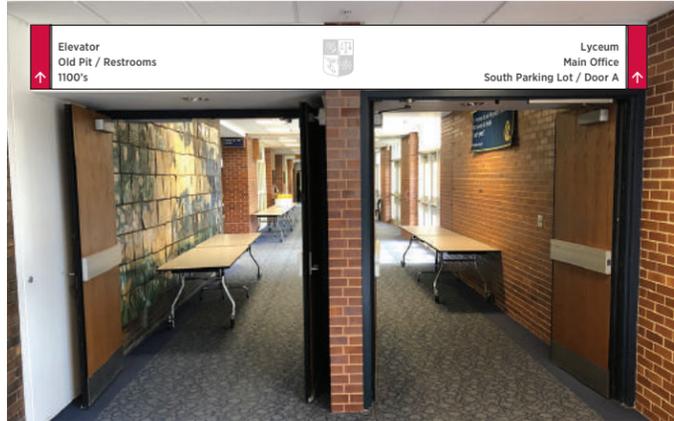


BUILDING KEY

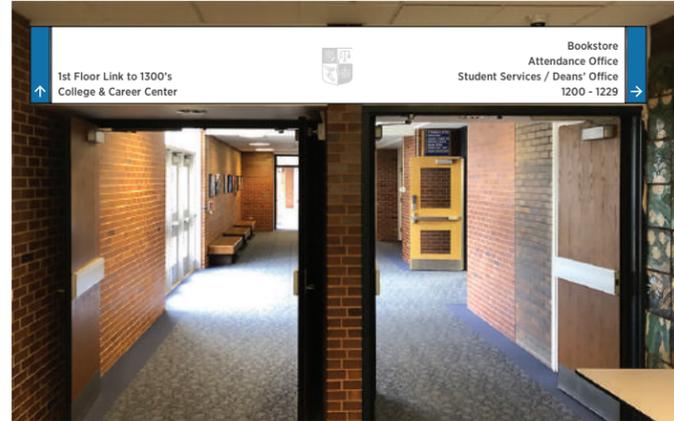


CIRCULATION KEY

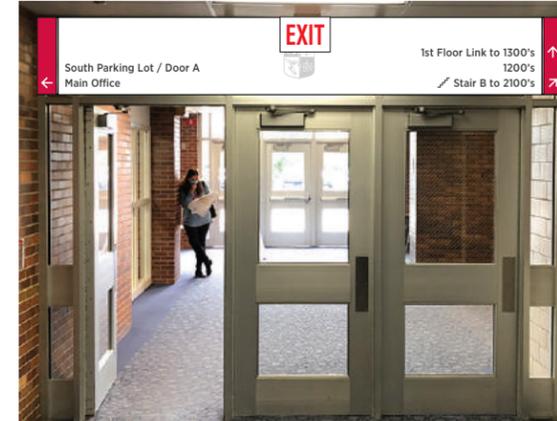
- Primary Circulation
- Secondary Circulation
- Vertical Circulation
- Toilets
- Entrances
- Department Entrances



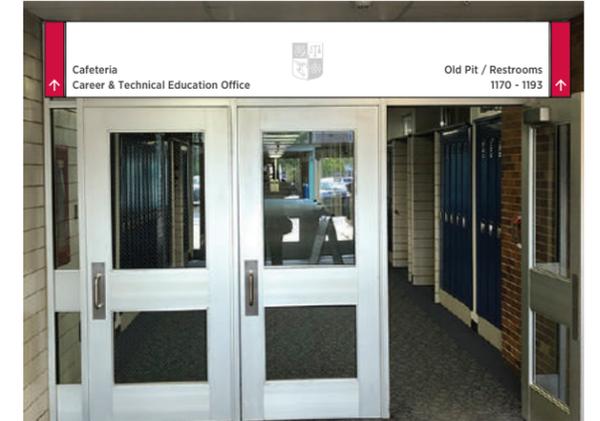
A 1SB.51
161.5"x16.75" - drywall with filler



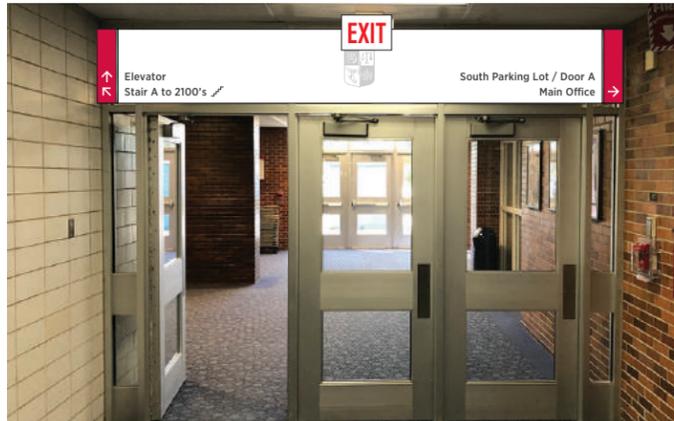
1SB.52
161.5"x21" - drywall with filler



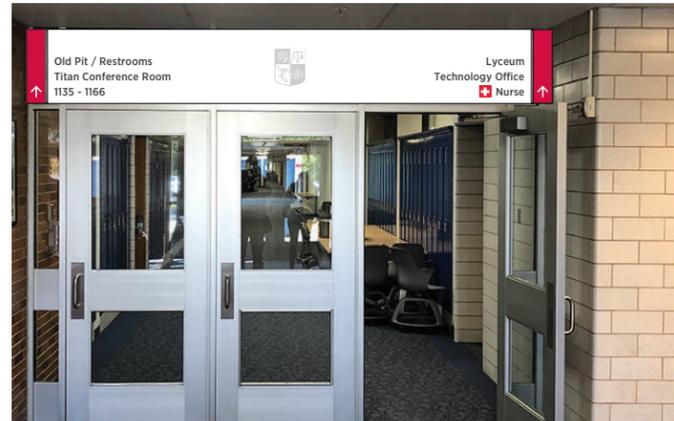
B 1170.52
139"x20.5" - glass/aluminium



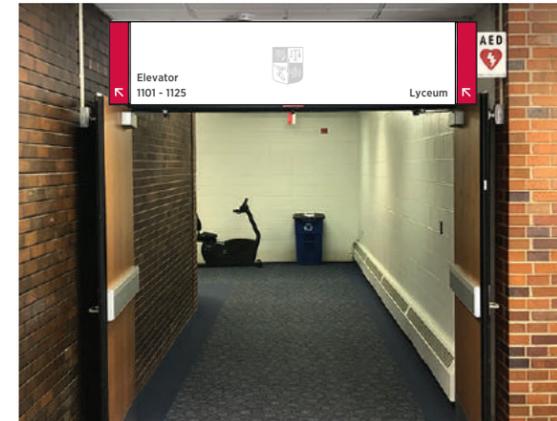
1170.51
139"x20" - glass/aluminium



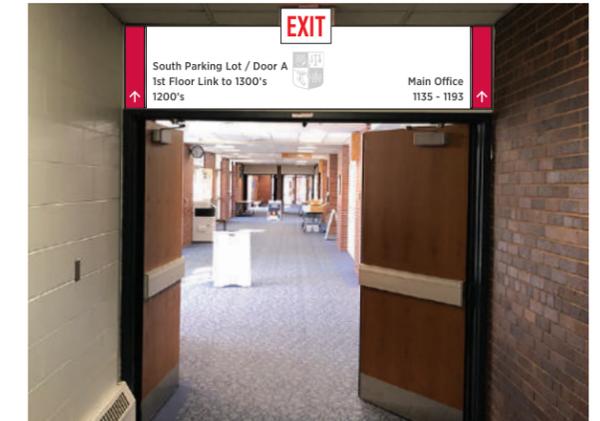
C 1135.52
138.25"x19.75" - glass/aluminium



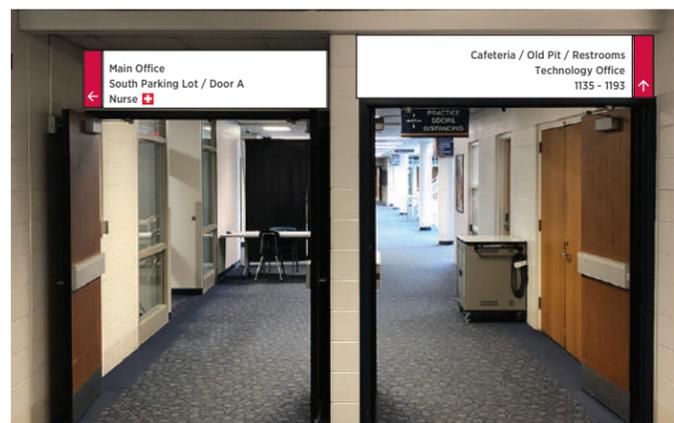
1135.51
138.25"x19.75" - glass/aluminium



D 1SA.52
96.5"x21.75" - drywall



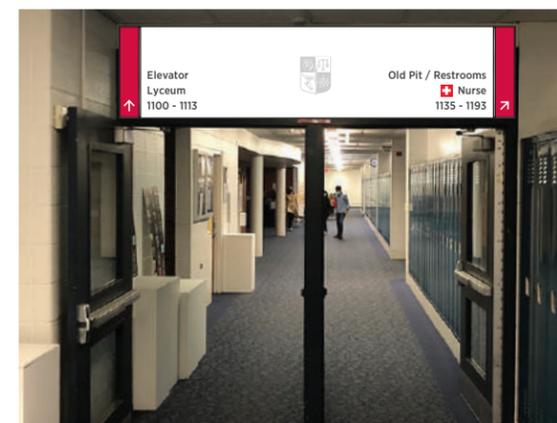
1SA.51
96.5"x21.75" - drywall



E 1139.54
L - 78"x16.5??" / R - 78"x16.5" - drywall



1139.53
L - 78"x18.625" / R - 86"x18.625" - drywall

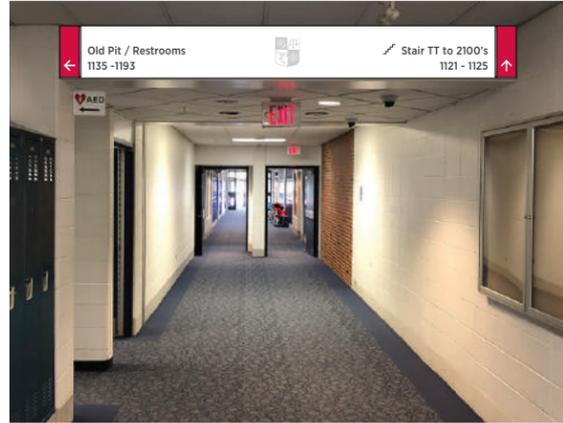


F 1113.51
104"x24" - glass

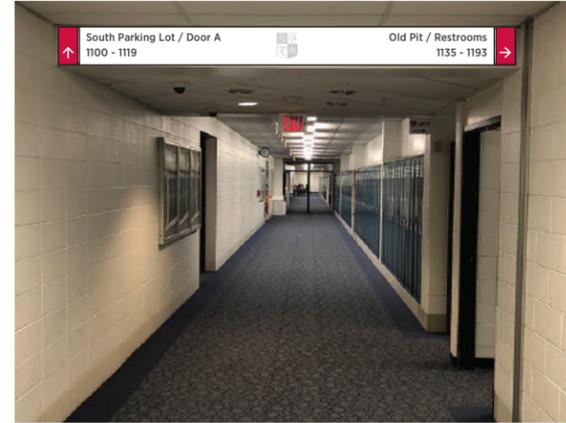


1113.52
104"x24" - glass

ELEVATION
Scale: 1/4" = 1'-0"



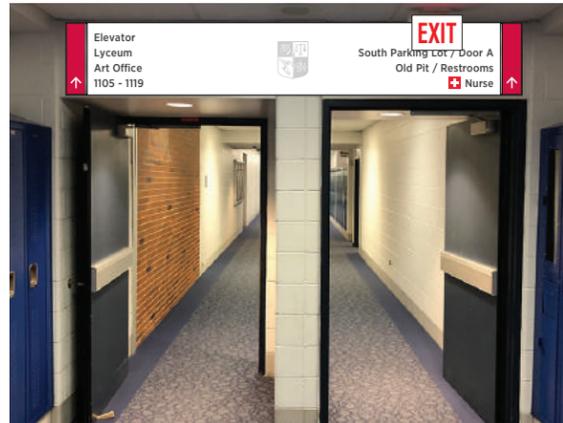
G 1149.53
120" x 13.75" - drywall



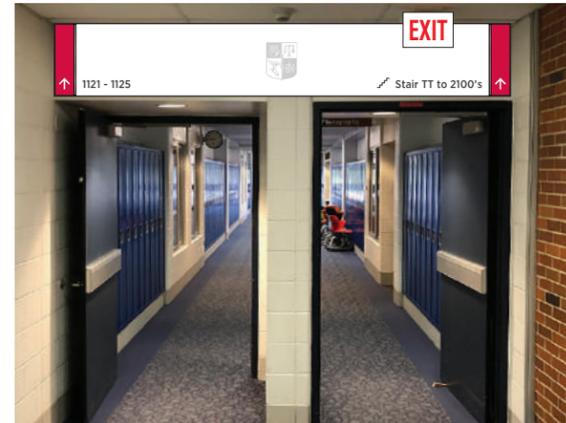
1149.54
120" x 10" - drywall



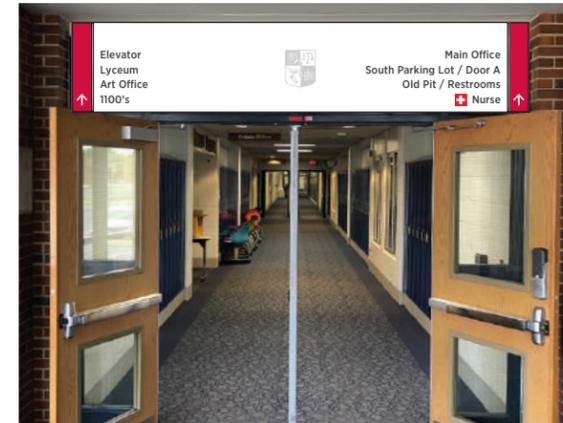
H 1149.52
L - no sign / R - 46"x19.75"



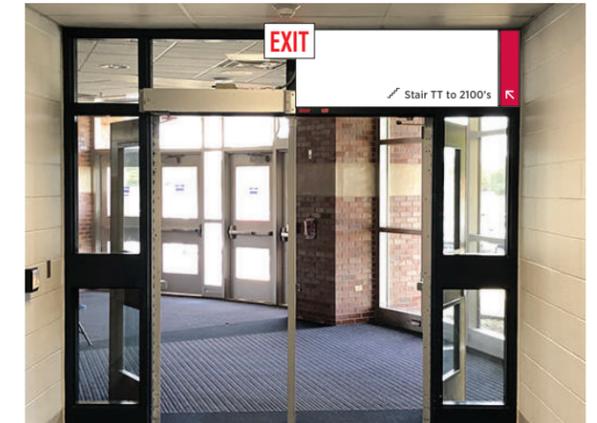
J 1121.53
119.75"x19" - drywall with filler



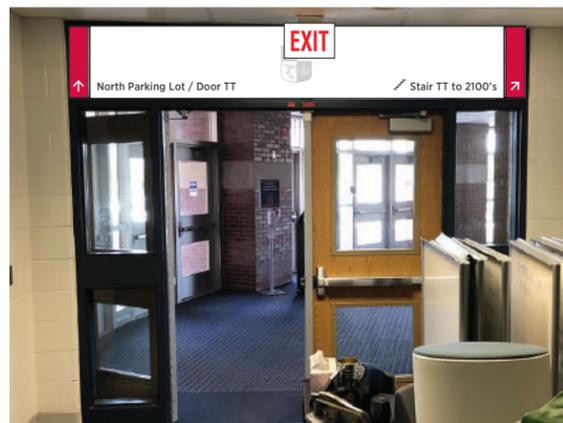
1121.54
119.75"x19" - drywall with filler



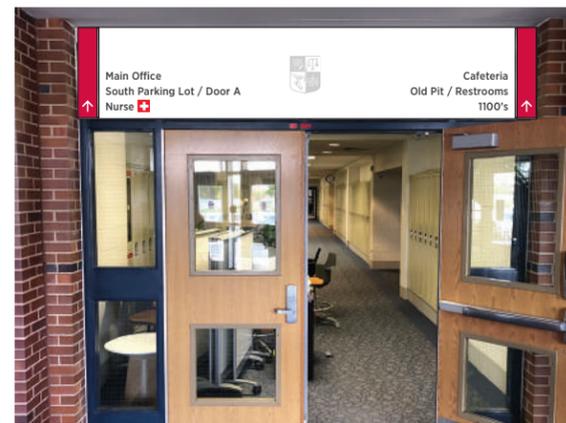
K 1125.52
120"x23.5" - glass



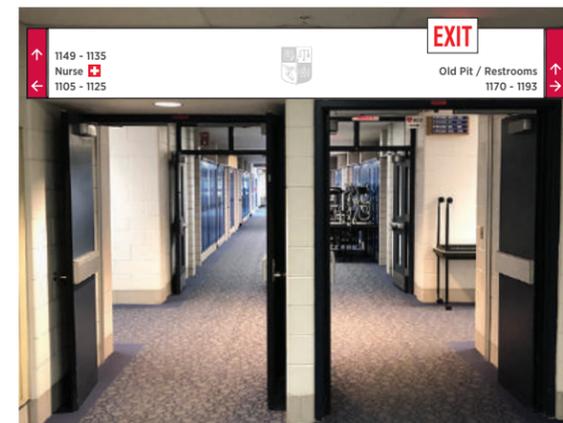
1125.51
120"x20.25" - glass notch out - 41"x4.5"



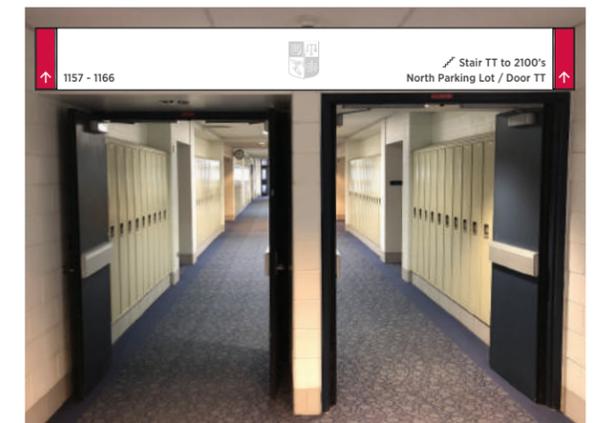
L 1166.51
120"x19"



1166.52
120.5"x24"

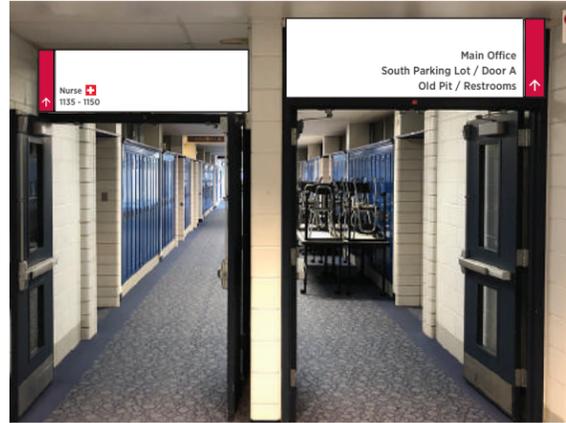


M 1158.51
141.5"x18.375"

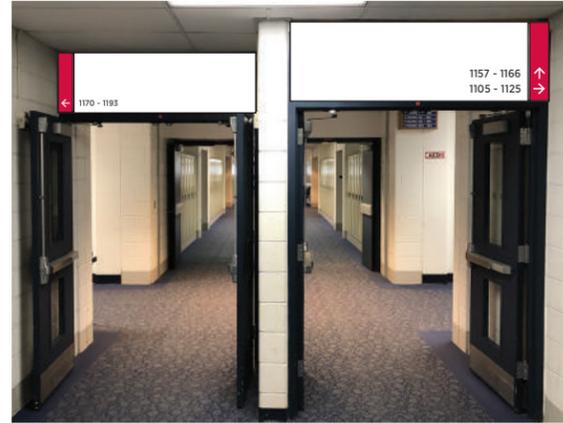


1158.52
141.5"x16.25"

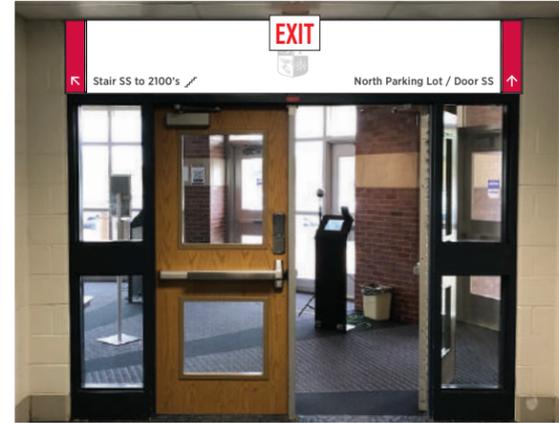
ELEVATION
Scale: 1/4" = 1'-0"



N 1150.52
L - 68"x20.75" / R - 68"x20.75"



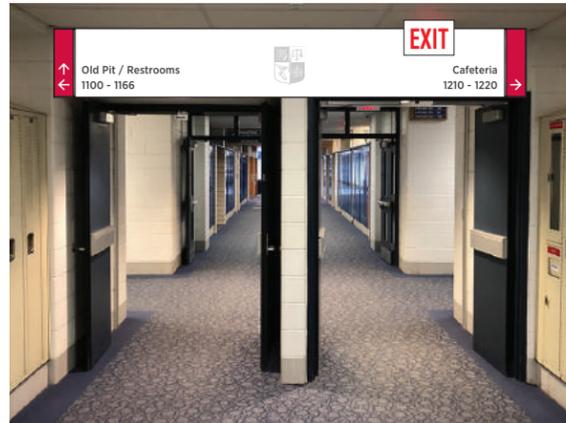
1150.51
L - 68"x20.75" / R - 68"x20.75"



P 1193.51
120"x19.25"



1193.52
120"x23.75"



Q 1186.52
142"x18"



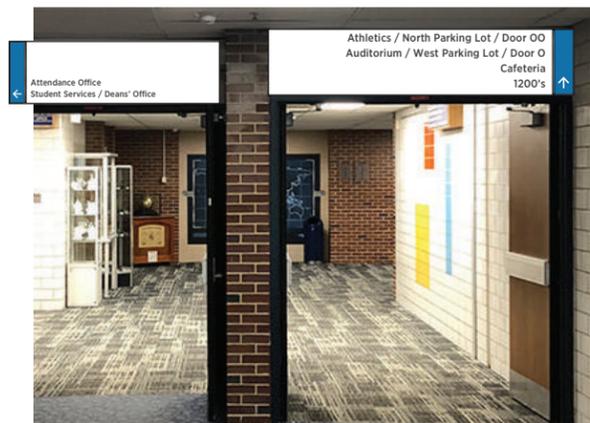
1186.53
141.5"x16.75"



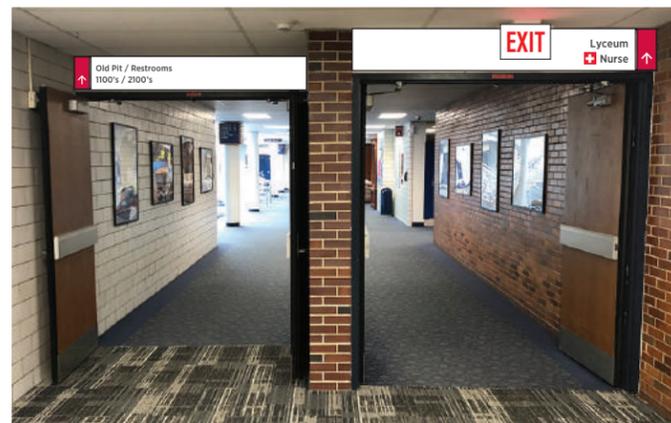
R 1182.51
L - 67.5"x20.5" / R - 68"x20"



1182.52
L - 68"x20" / R - 67.5"x20.5"

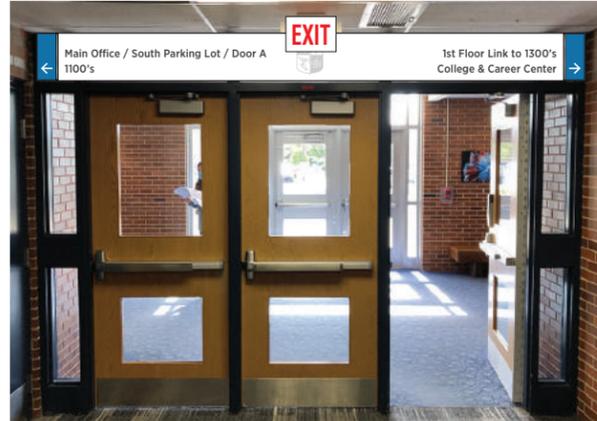


S 1176.53
L - no sign / R - 80.25"x17.25"

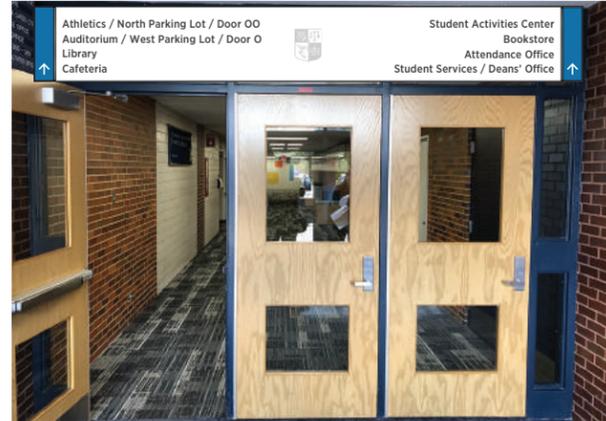


1176.54
L - 80.5"x11.75" / R - 80"x11"

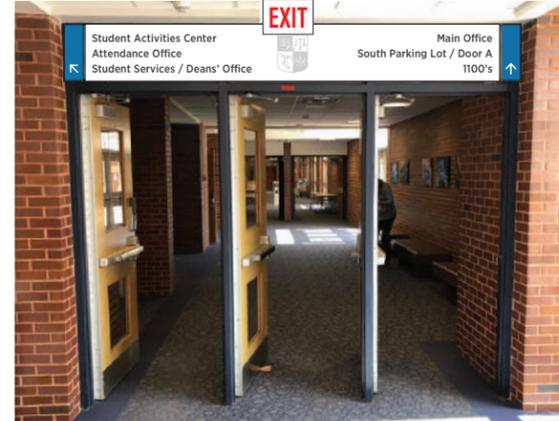
ELEVATION
Scale: 1/4" = 1'-0"



A 1200A.51
144"x12.5"



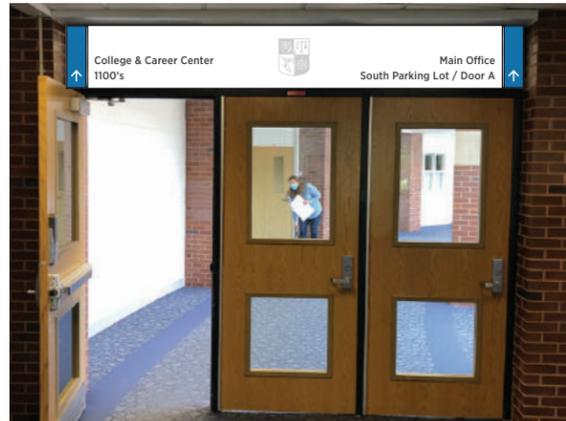
1200A.52
144"x12.5"



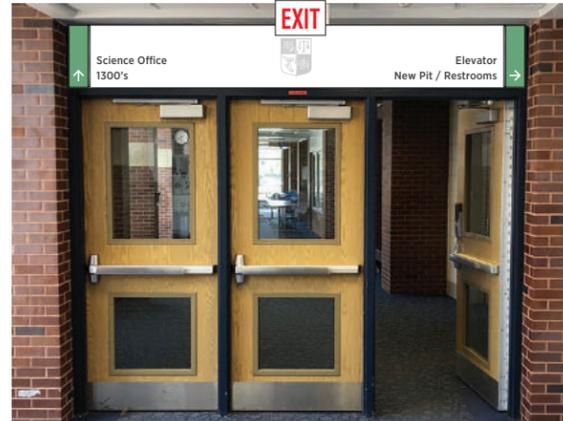
B 1200E.51
120"x15"



1200E.52
120"x15"



C 15C.52
120"x16.5"



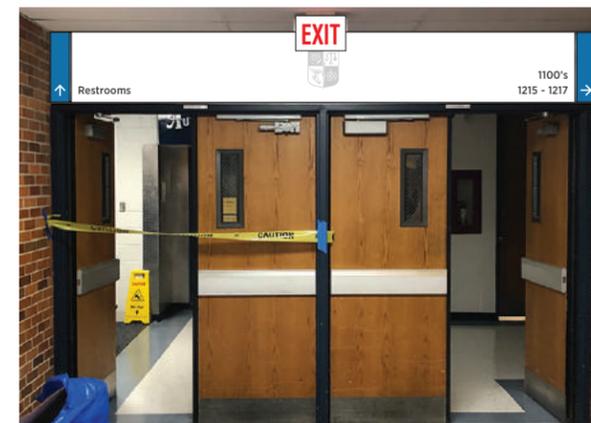
15C.51
120"x16.5"



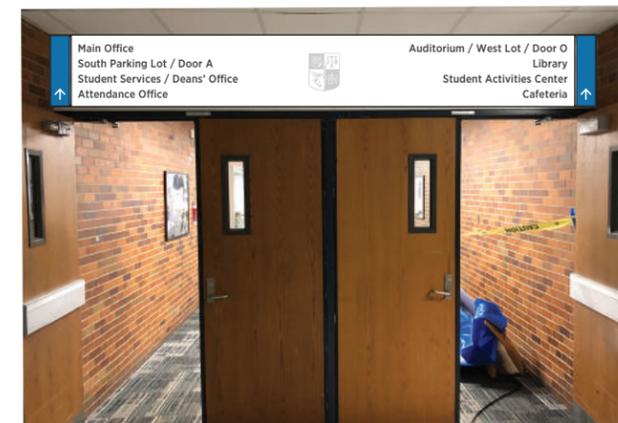
D 1209.52
L - 90"x14.5" / R - 90.25"x14.5"



1209.51
L - 89.75"x13.25" / R - 90.5"x13"

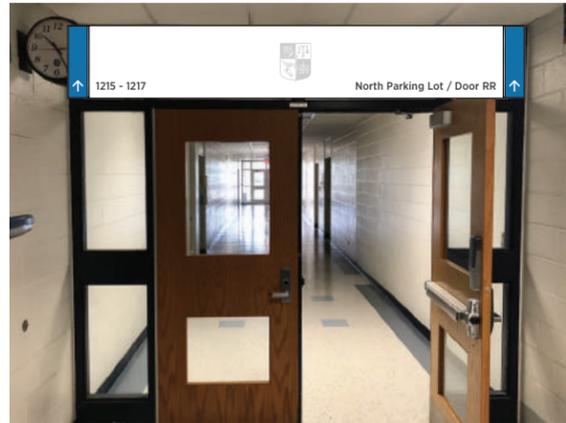


E 1210.52
143.5x18.5"

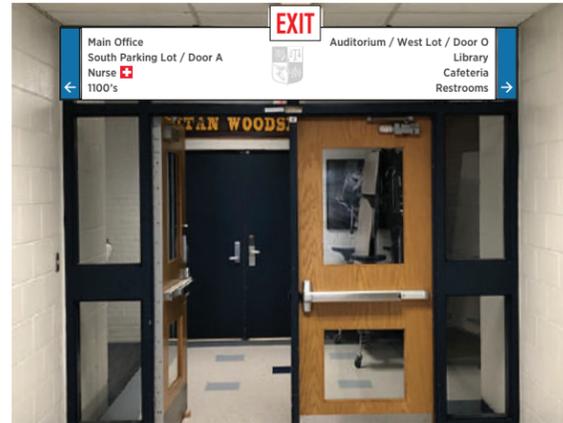


1210.51
143.5x18.75"

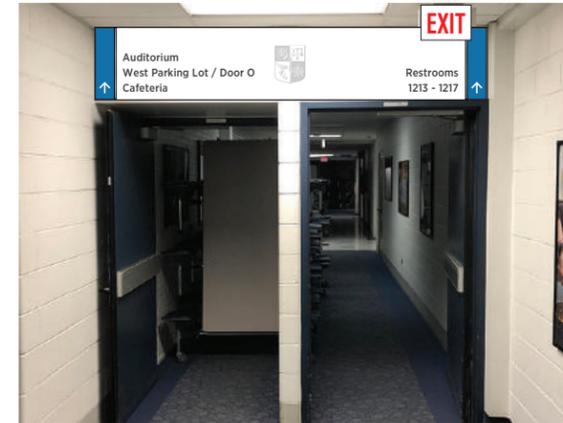
ELEVATION
Scale: 1/4" = 1'-0"



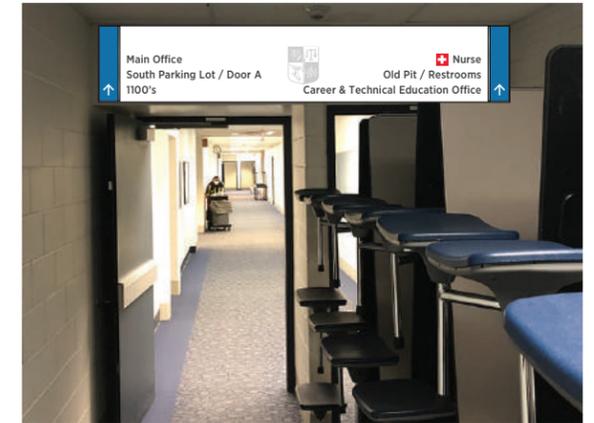
F 1215.52
120"x19"



1215.51
120"x19"



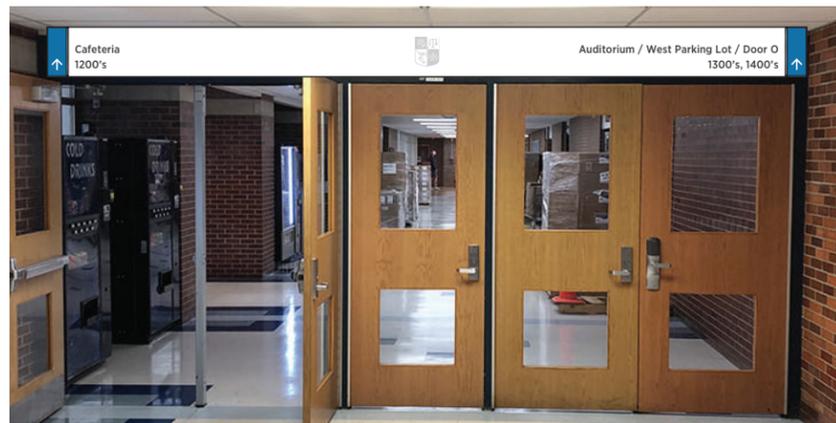
G 1215.54
103"x19"



1215.53
108"x20"

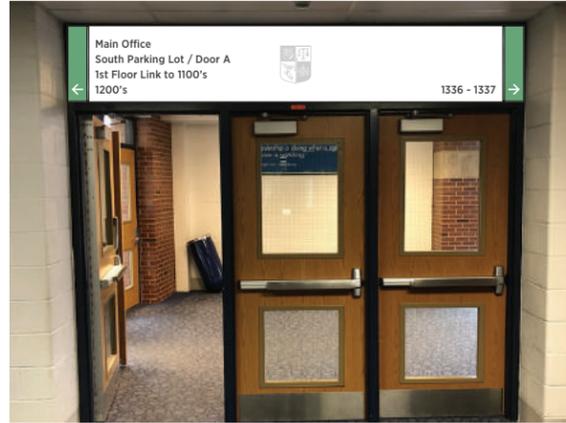


H 1228.55
199.5"x13.25"

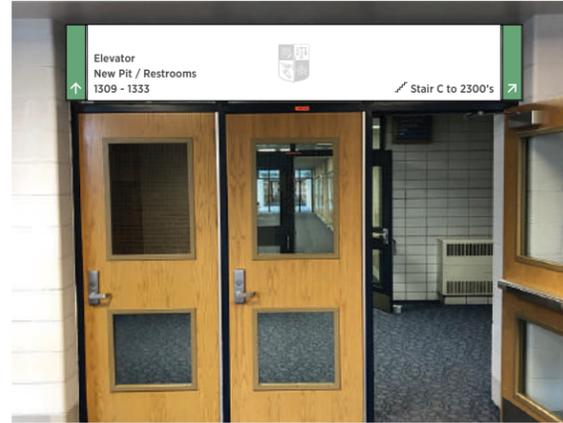


H 1228.56
199.5"x13"

ELEVATION
Scale: 1/4" = 1'-0"



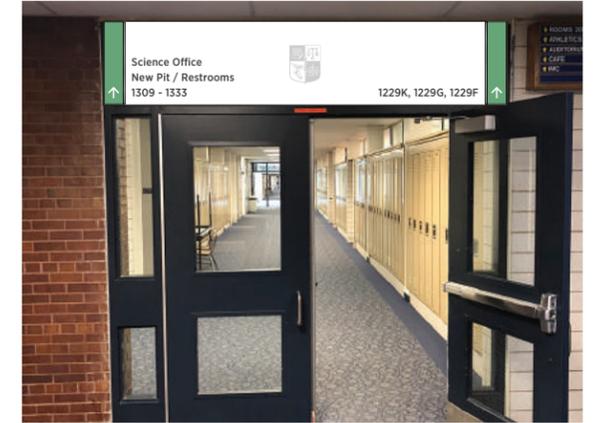
A 1336.51
120"x20"



B 1336.52
120"x20"



C 1309.51
106"x21"



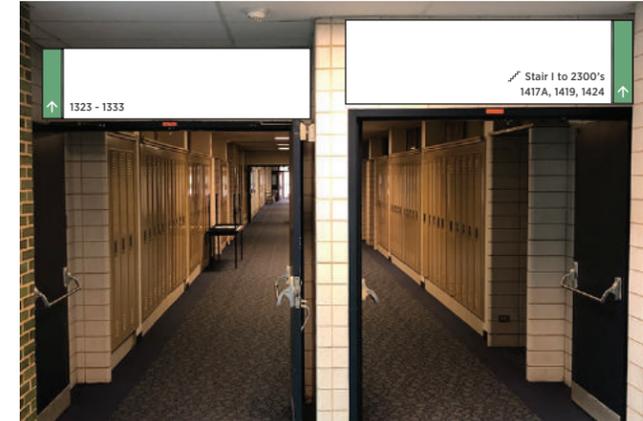
D 1309.52
106"x22"



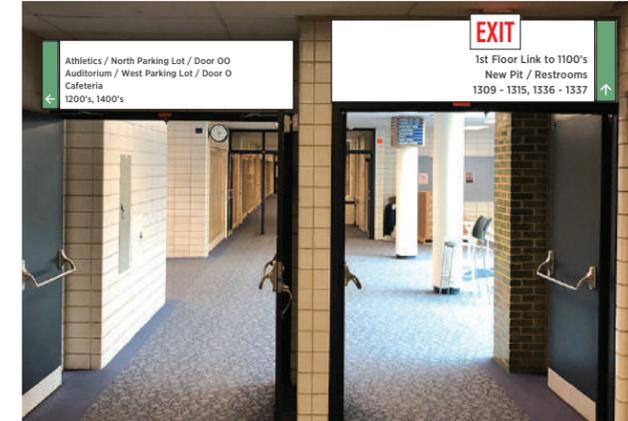
E 1321.53
L - 70"x22" / R - 70"x22"



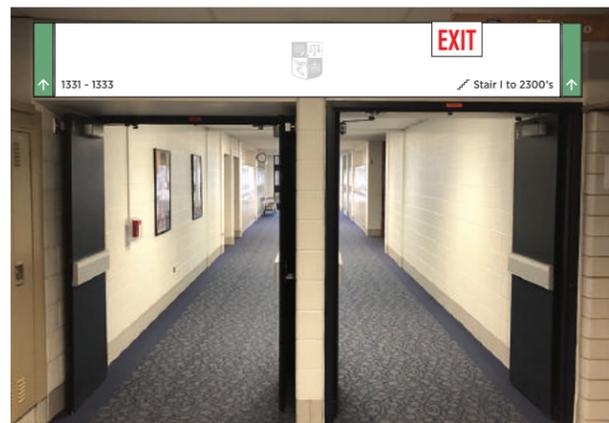
F 1321.52
L - 70"x22" / R - 70"x22"



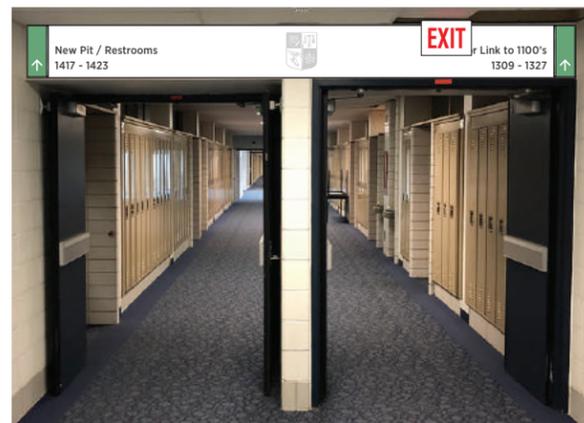
G 1323.51
L - 79"x21.5" / R - 78"x22"



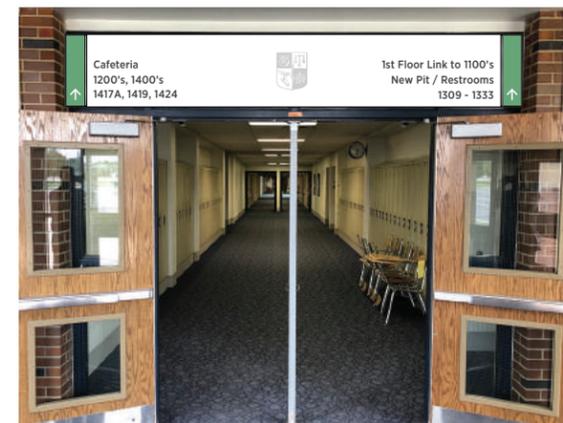
H 1323.52
L - 80"x21.5" / R - 78"x21.5"



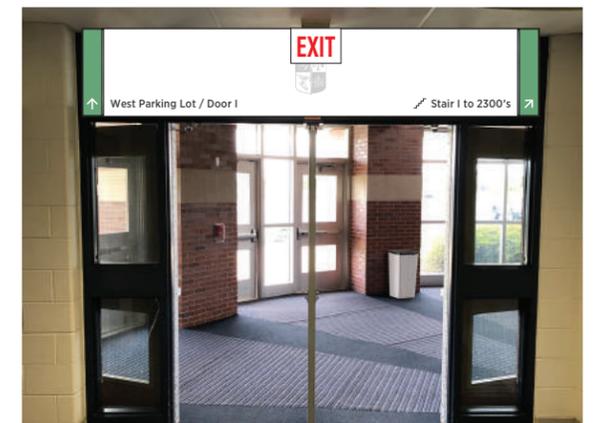
I 1327.51
144"x19.5"



J 1327.52
144x13.75"



K 1333.51
120"x19"

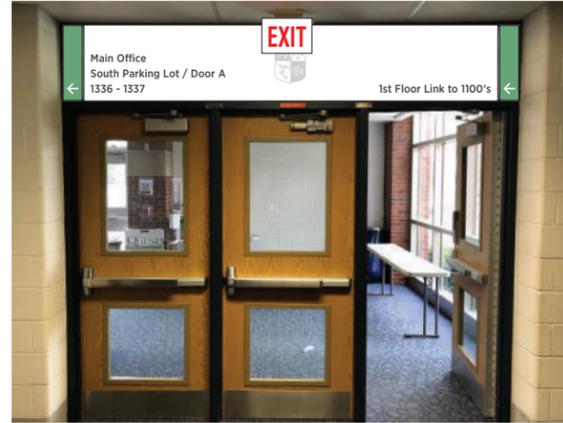


L 1333.52
120"x23"

ELEVATION
Scale: 1/4" = 1'-0"



G 1SD.54
120"x20"



I 1SD.53
120"x20"



H 1SD.52
105.5"x20"



J 1SD.51
105.5"x19.5"



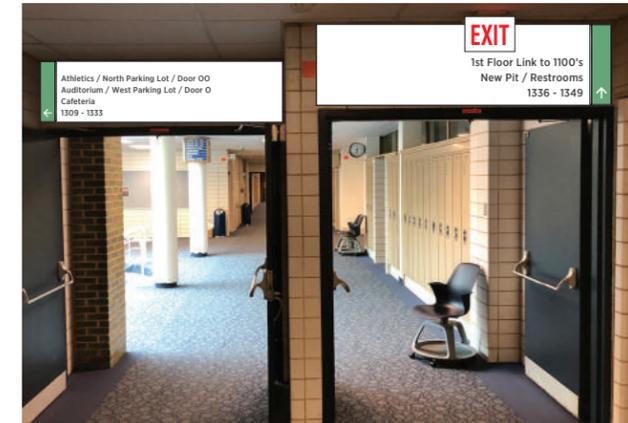
K 1345.51
L - 70"x19.5" / R - 70"x19.5"



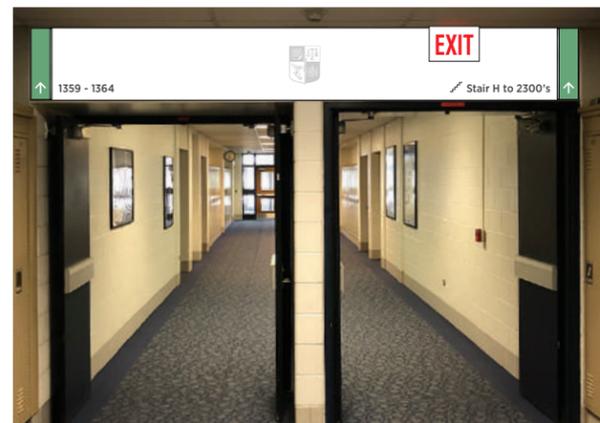
L 1345.52
L - 70"x19.5" / R - 70"x19.5"



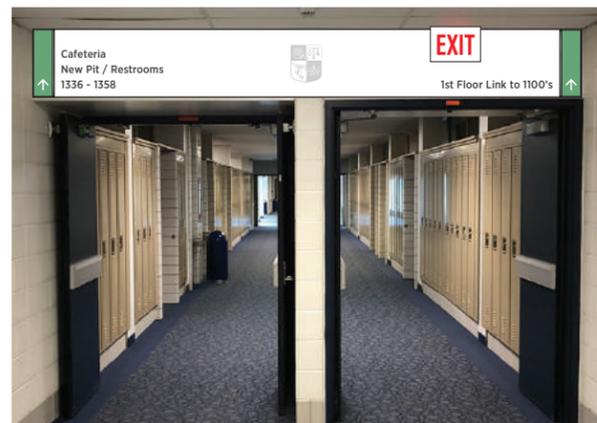
M 1353.52
L - 80"x21.25" / R - 83.5"x21.25"



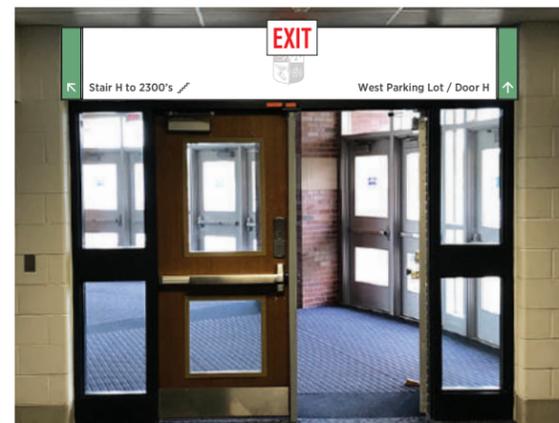
N 1353.51
L - 79"x21.5" / R - 84"x21.25"



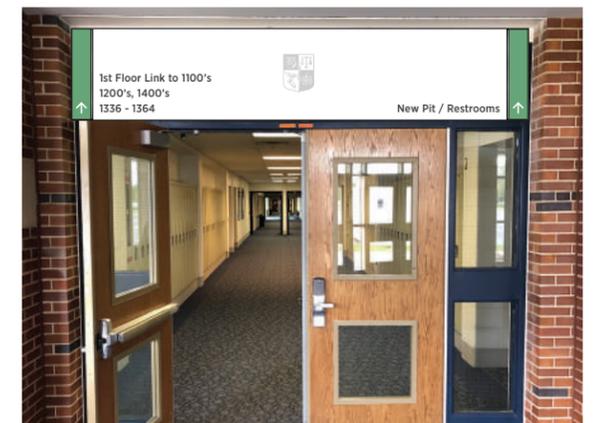
O 1357.52
144"x19"



P 1357.51
144"x17.75"

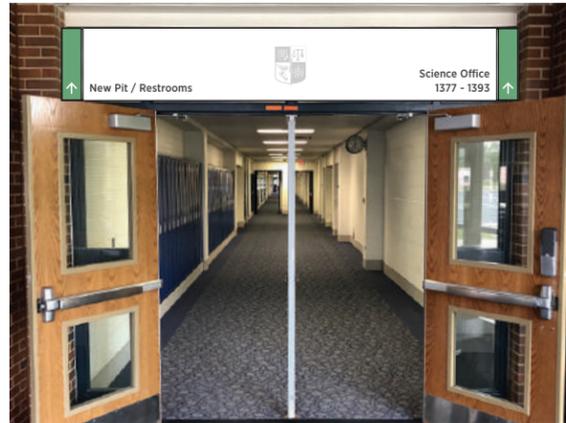


Q 1363.52
120"x19"

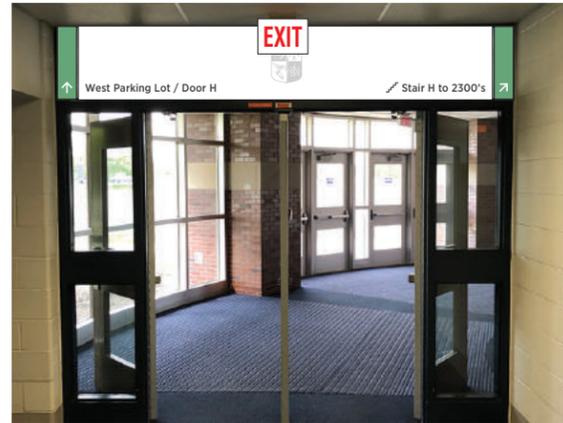


R 1363.51
120"x24"

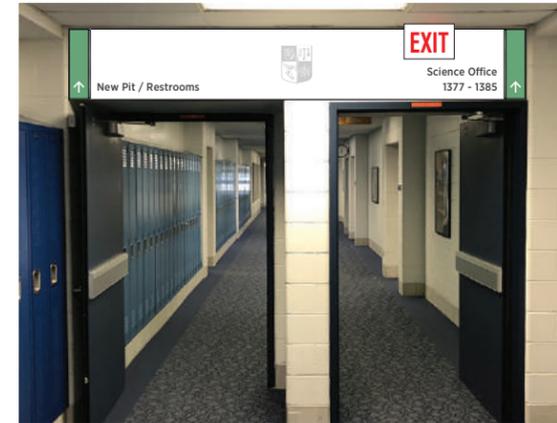
ELEVATION
Scale: 1/4" = 1'-0"



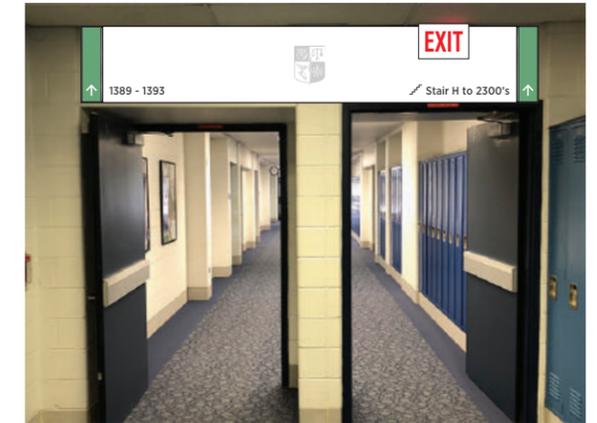
N 1393.51
120"x19"



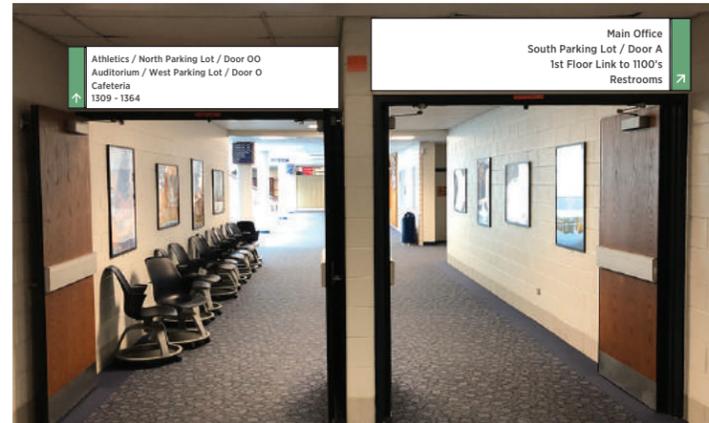
1393.52
120"x24"



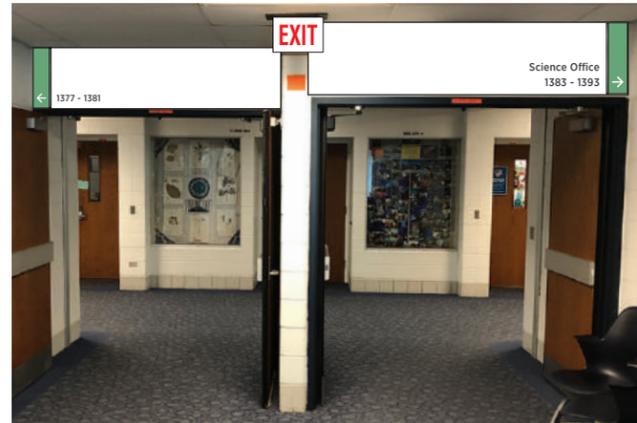
P 1385.51
120"x18.5"



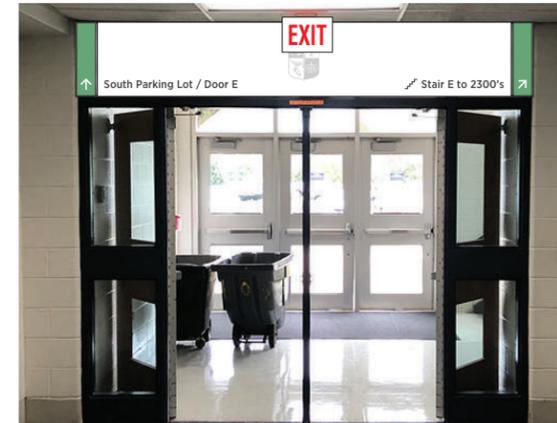
1385.52
120"x20"



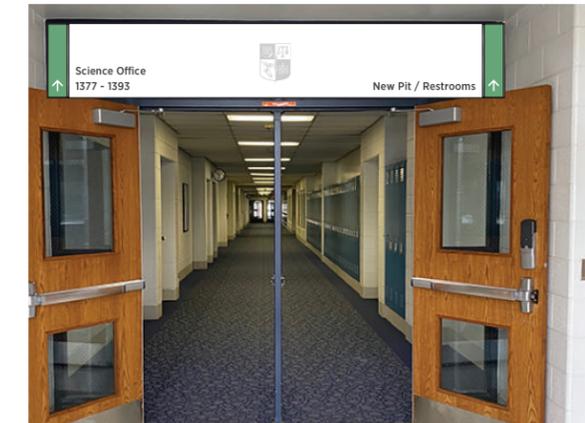
Q 1381.52
L · 84"x19" / R · 84"x19"



1381.51
L · 84"x19.5" / R · 84"x19"

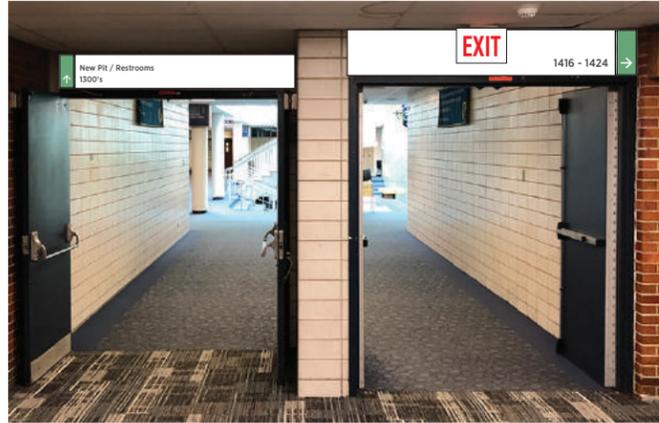


R 1377.51
120"x19.5"

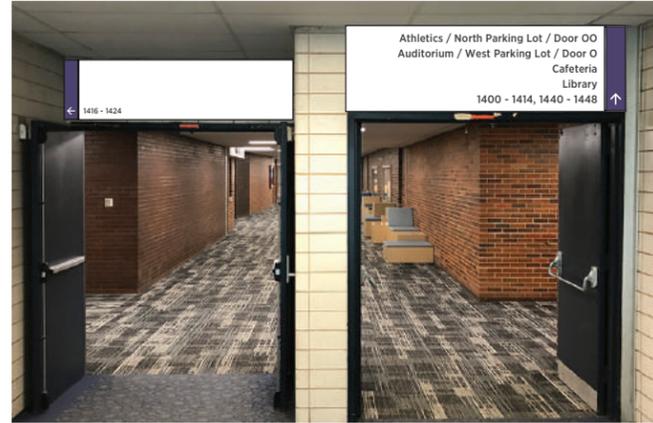


1377.52
120"x19.5"

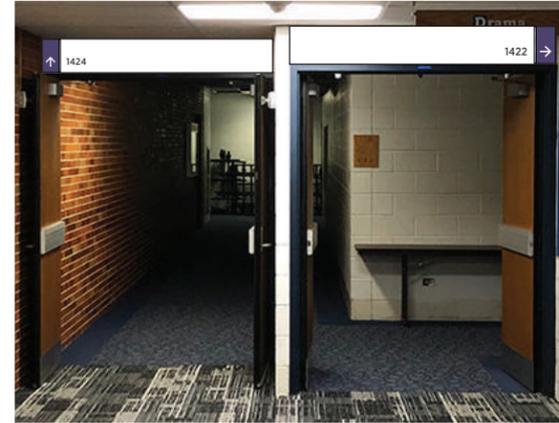
ELEVATION
Scale: 1/4" = 1'-0"



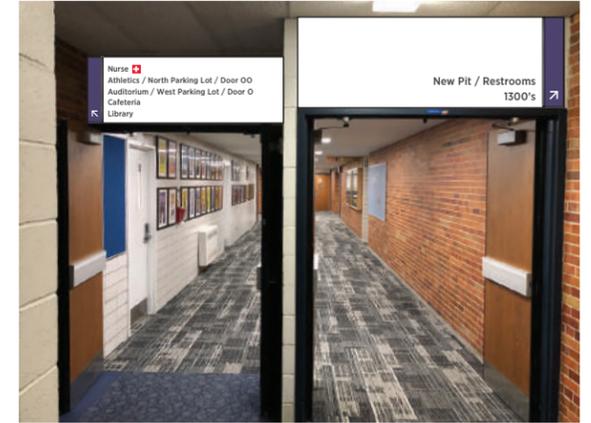
A 1417.53
L · 77"x12.25" / R · 90"x12"



B 1417.52
L · 79.5"x21.25" / R · 88.5"x22.5"



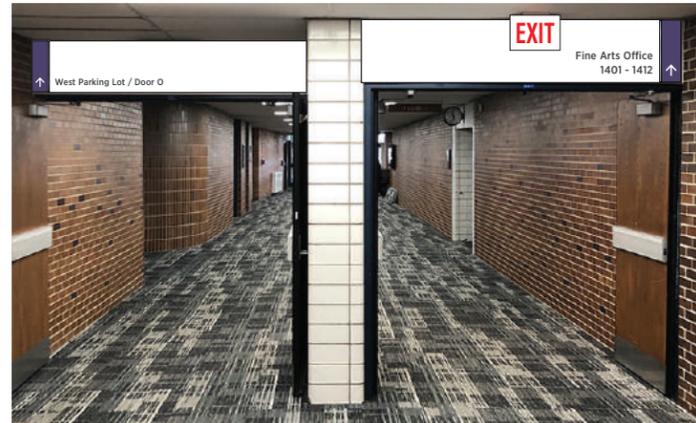
B 1420.52
L · 70.5"x10" / R · 70"x10"



D 1420.51
L · 70"x23" / R · 70"x23.75"



D 1409.51
L · 88"x16.5" / R · 87.5"x16.5"



F 1409.52
L · 87.5"x16.5" / R · 84"x16.5"

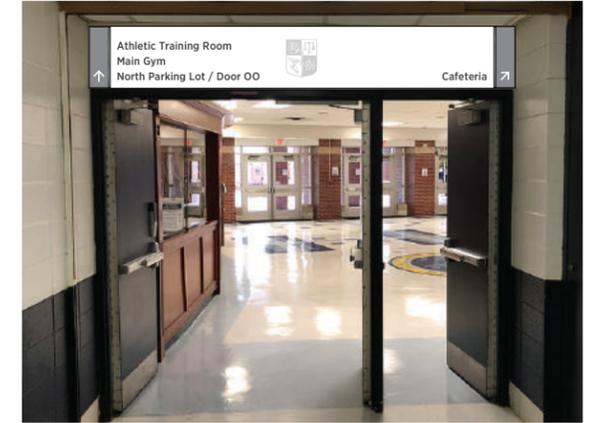
ELEVATION
Scale: 1/4" = 1'-0"



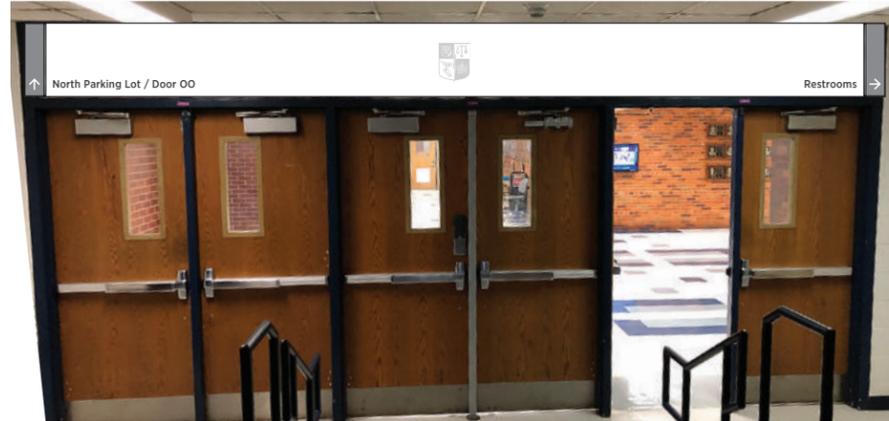
A 1500.53
226" x 19.25", need spacers



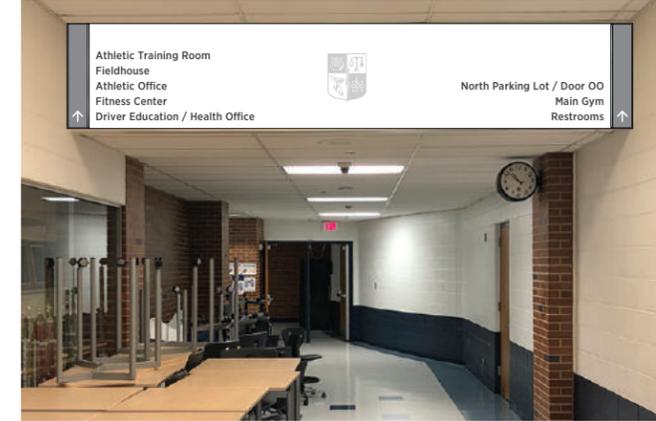
B 1528.52
96"x18.5" - drop down panel



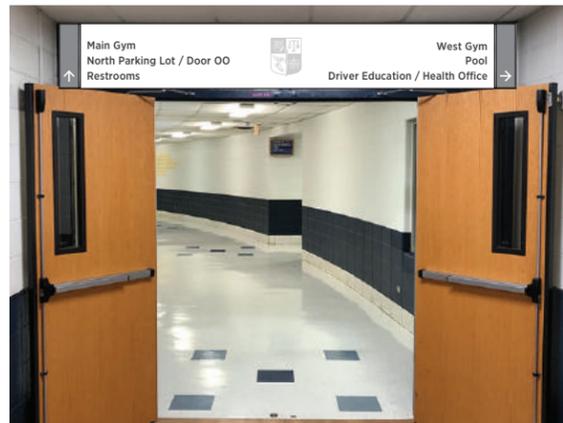
1528.51
112"x16.25"



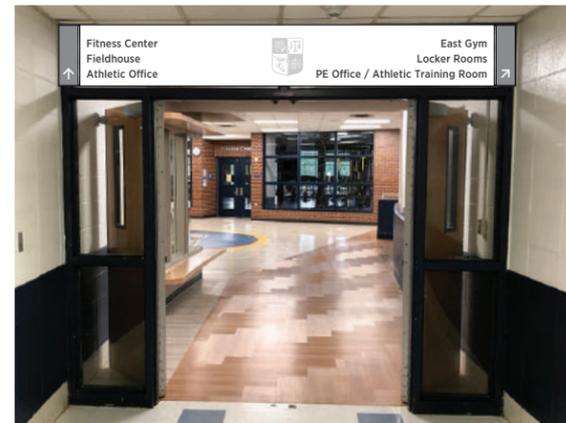
A 1500.52
226"x19"



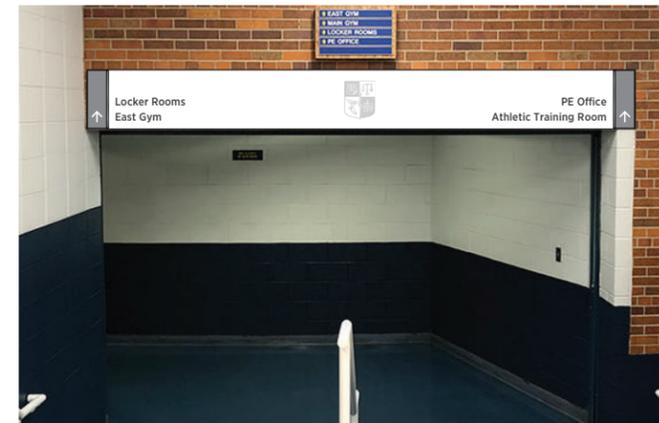
D 1514.51
148.5"x27.5"



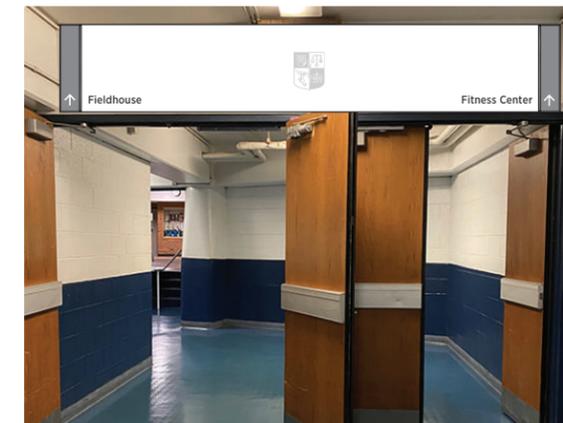
E 1507.52
120"x17"



1507.53
120"x16"

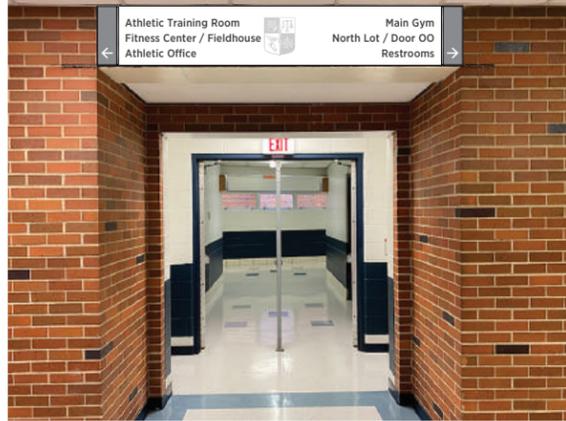


F 1505.52
144"x15.5"



F L500.54
133"x23"

ELEVATION
Scale: 1/4" = 1'-0"



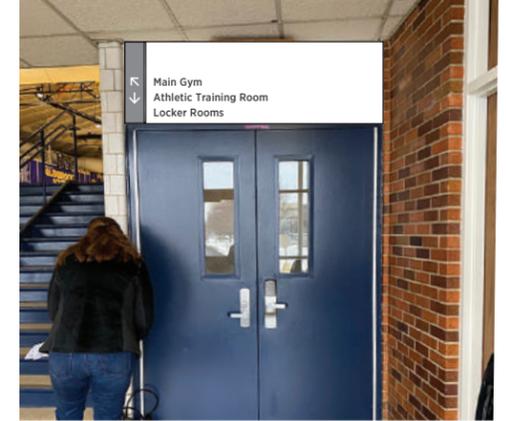
G 1509.51
TBD



1509.52
TBD



H 1500A.53
68"x20"



1500A.52
68"x20"

ELEVATION
Scale: 1/4" = 1'-0"



Glenbrook South High School
4000 West Lake Avenue
Glenview, Illinois 60026

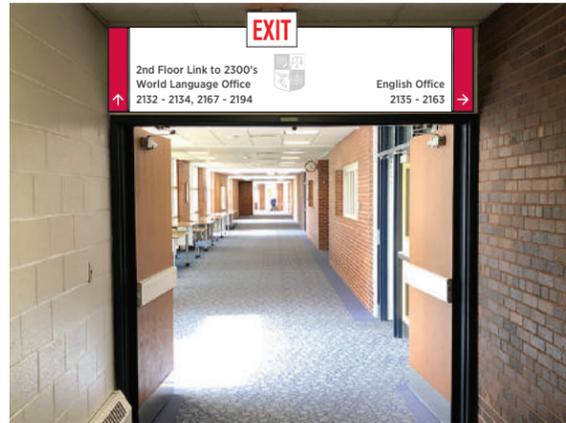
Cardosi Kiper Design Group
2437 South Western Avenue
Chicago, Illinois 60608

P 773.523.9300
F 773.523.9305
www.ck-dg.com

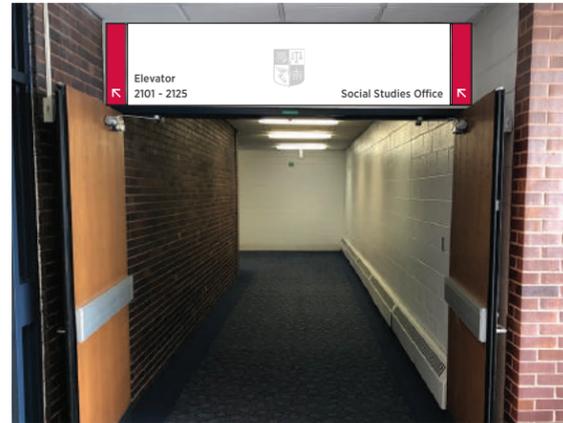
Glenbrook South High School
Interior Signage & Wayfinding Standards
Phase 4.0 - Construction Documents

02.01.21

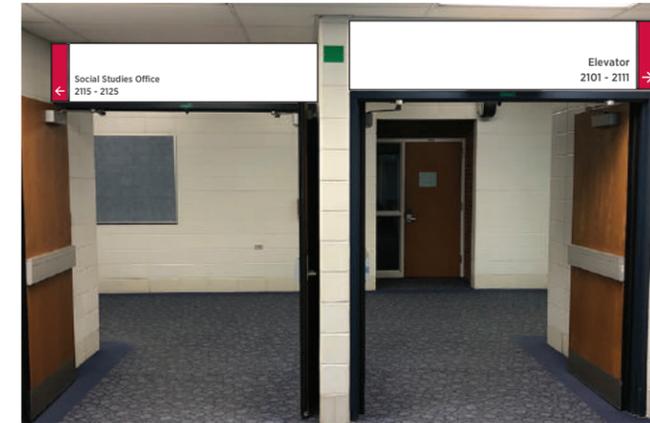
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A 2SA.53
96"x22.25"



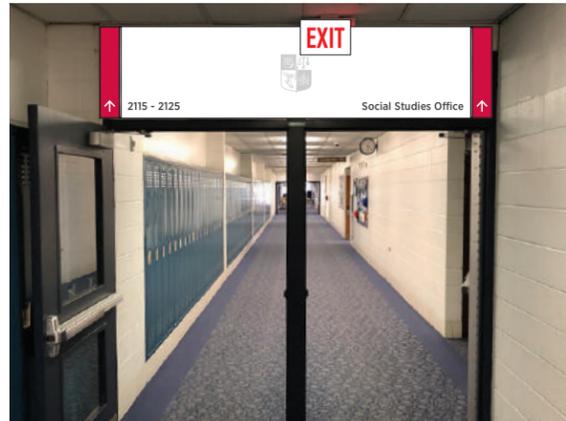
2SA.52
96"x21.5"



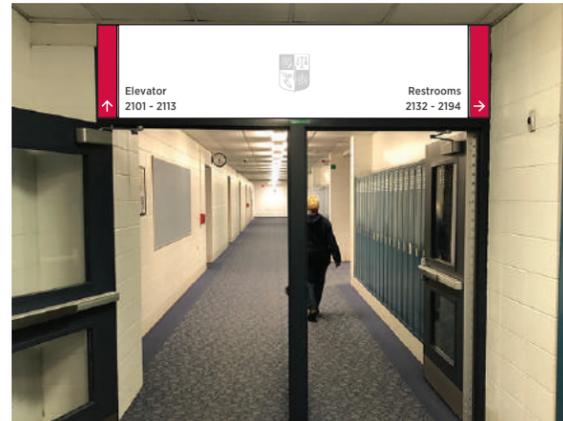
B 2145.51
L - 82"x17.5" / R - 81"x18"



2145.52
L - 81.5"x22.75" / R - 81"x22"



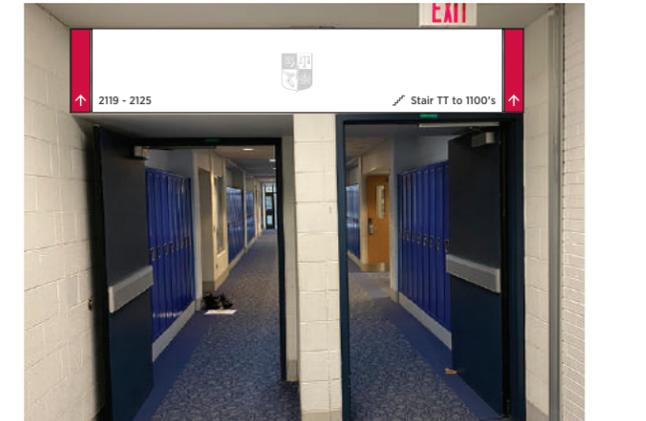
C 2115.51
103"x24"



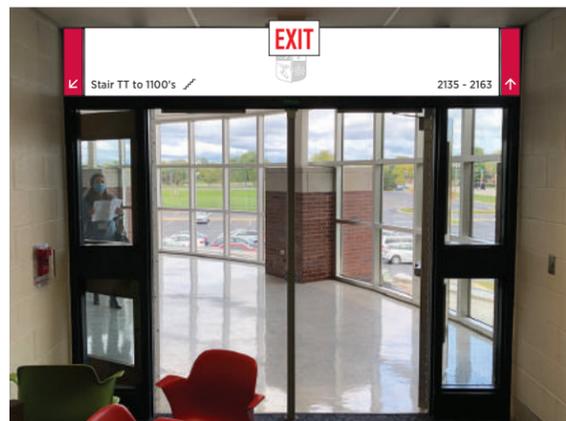
2115.52
103"x24.5"



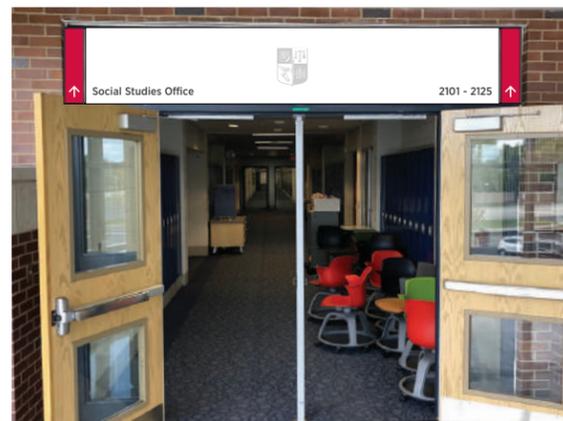
D 2120.52
118"x19.75"



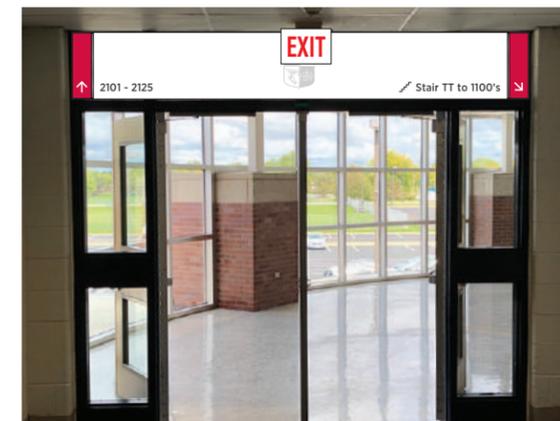
2120.51
119"x22"



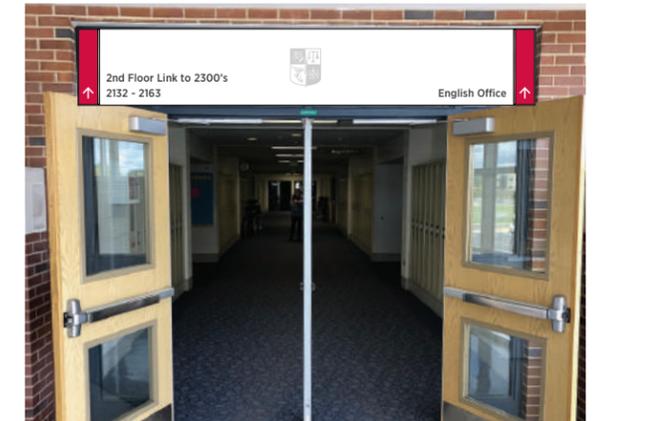
E 2125.52
120"x18"



2125.51
120"x20"

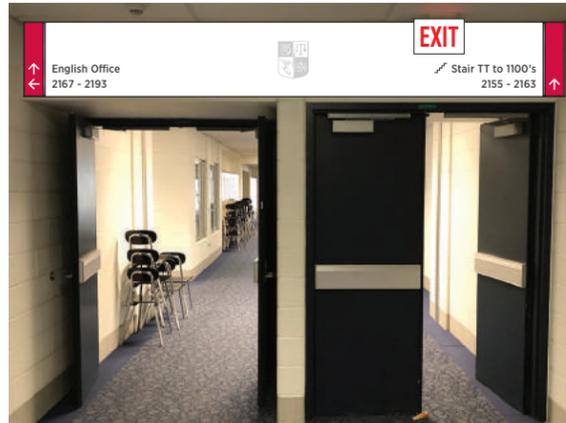


F 2163.52
120"x17.5"

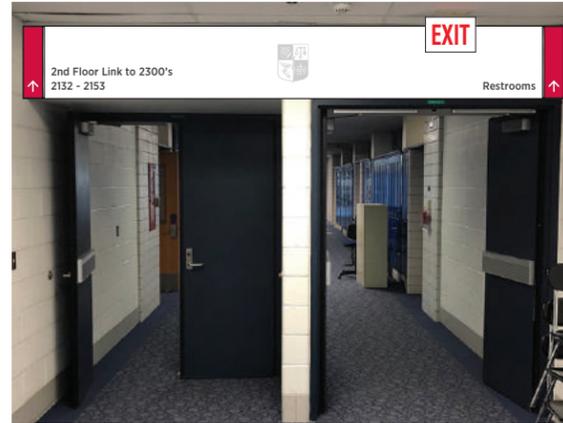


2163.51
120"x20"

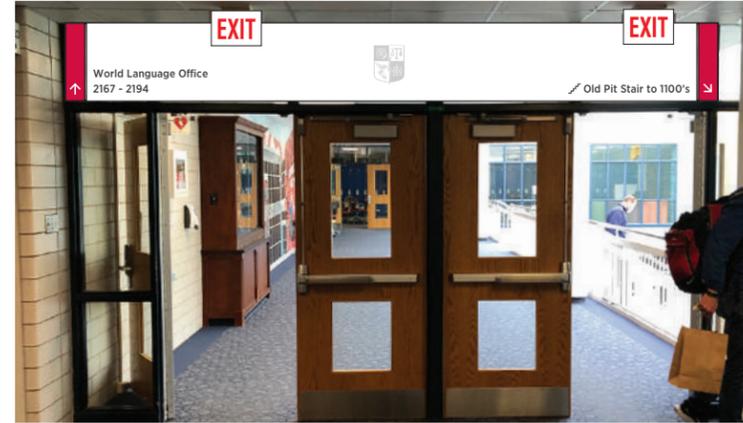
ELEVATION
Scale: 1/4" = 1'-0"



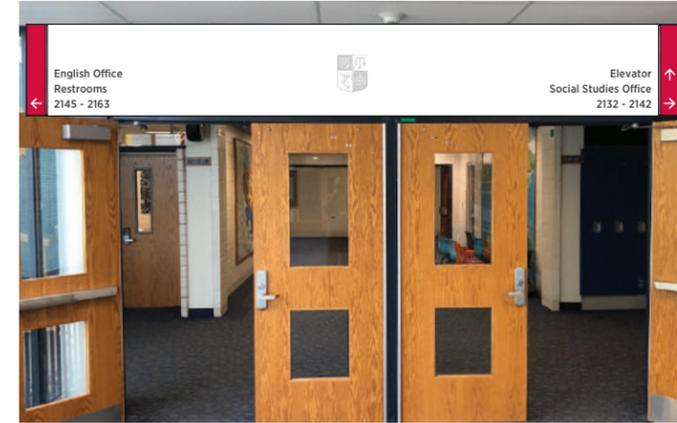
G 2153.52
142"x19.5"



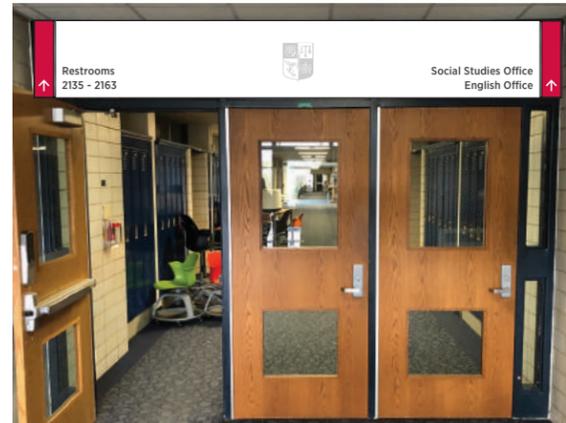
I 2153.51
142"x19"



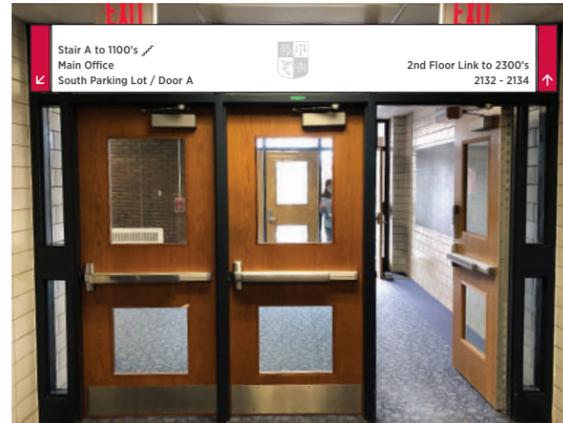
H 2142.52
171.5"x20.5"



J 2142.51
171.5"x24"



K 2134.52
138.5"x20.25"



L 2134.53
138.5"x17.75"



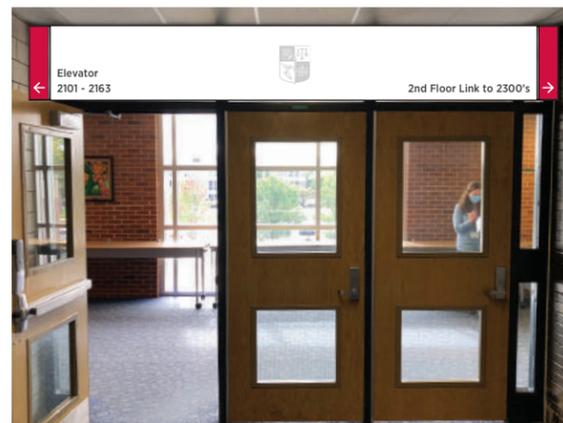
M 2134.55
138.5"x20"



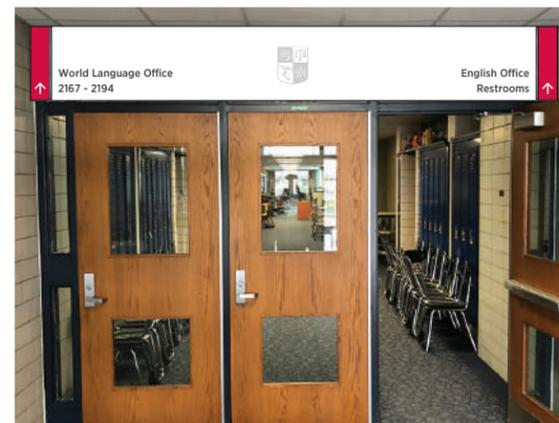
N 2134.54
138.5"x20"



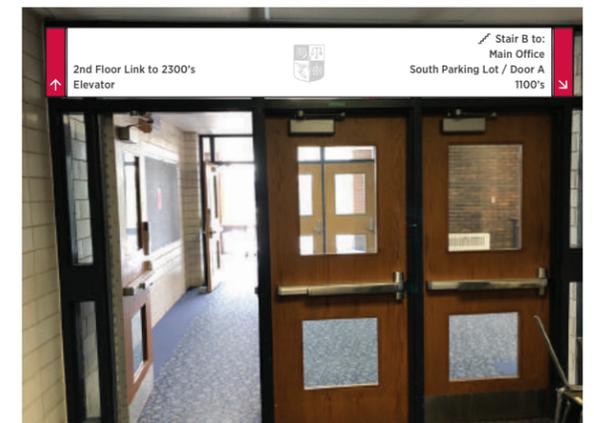
O 2SB.52
139"x21"



P 2SB.51
139"x19.5"



Q 2170.52
138.5"x19.5"

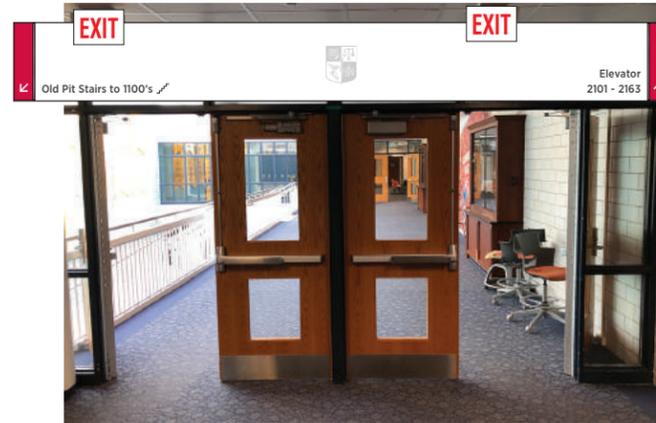


R 2170.51
138.5"x18.25"

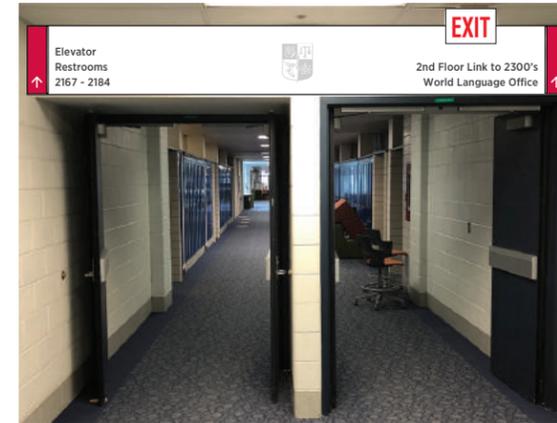
ELEVATION
Scale: 1/4" = 1'-0"



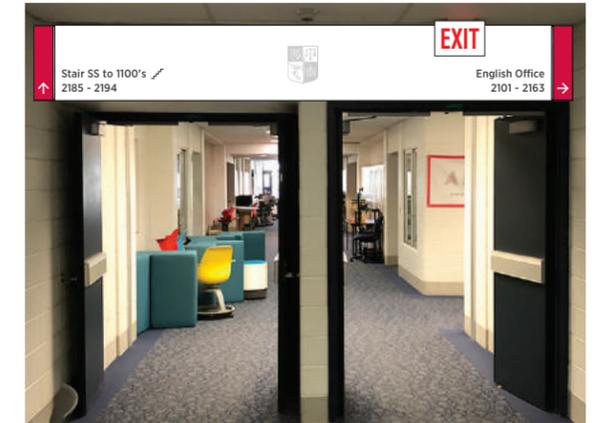
N 2173.52
172"X22.75"



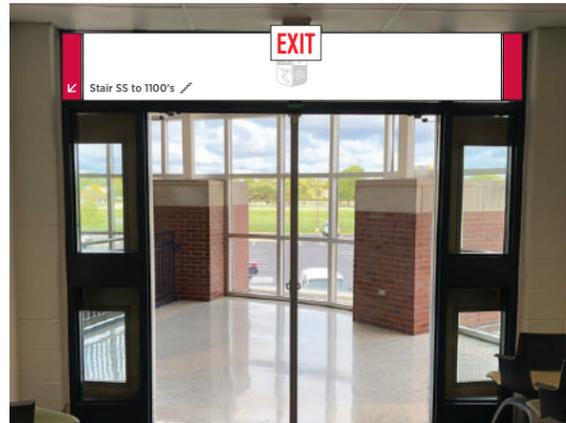
2173.51
172"X20.5"



P 2184.52
141.5"X18"



2184.51
141.5"X19.75"

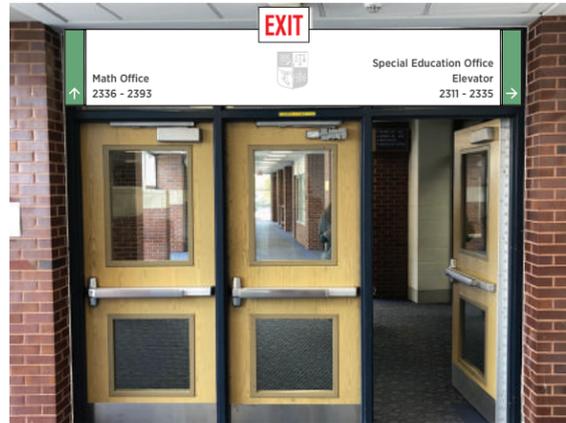


Q 2194.52
121"X17.75"

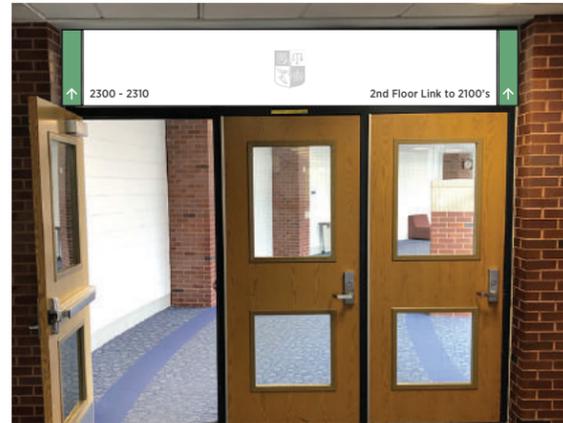


2194.51
121"X20.25"

ELEVATION
Scale: 1/4" = 1'-0"



A 2310.51
120"x20"



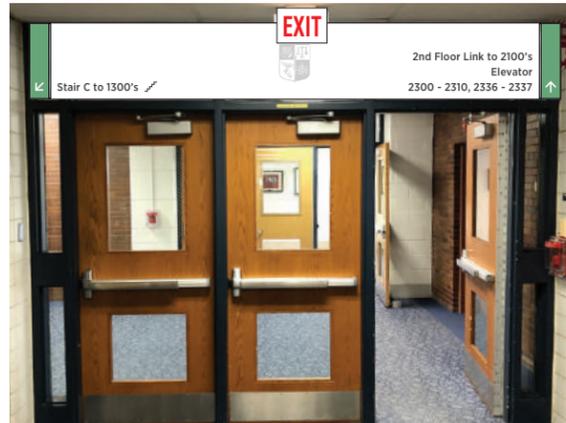
2310.52
120"x20"



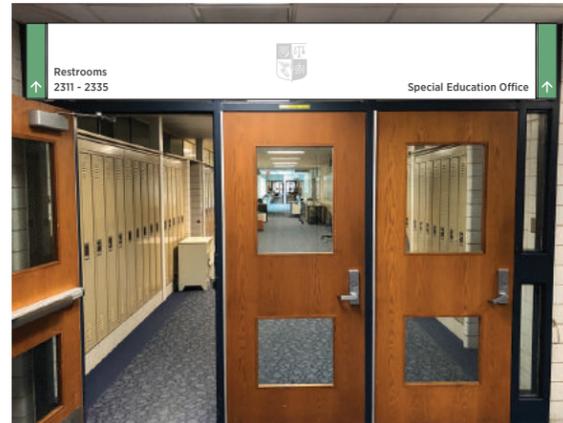
B 2311.53
120"x20.25"



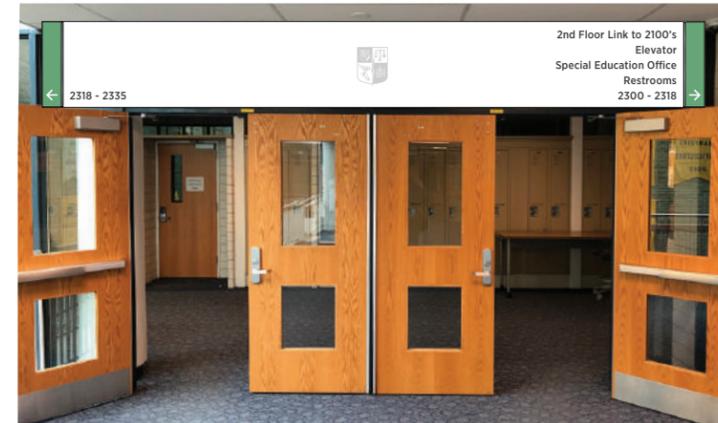
2311.54
120"x20"



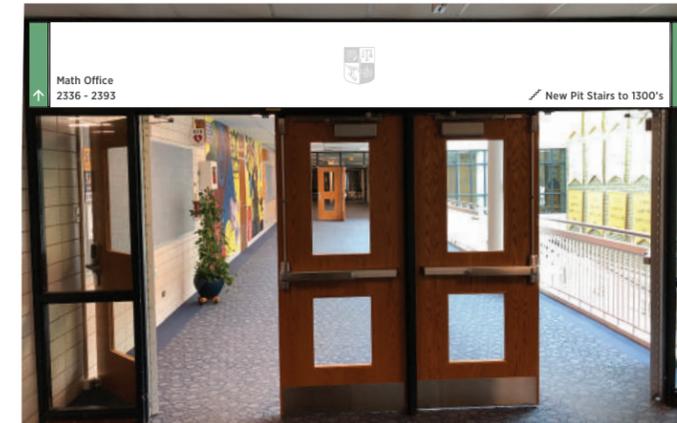
C 2311.51
139.5"x20"



2311.52
139.5"x20"



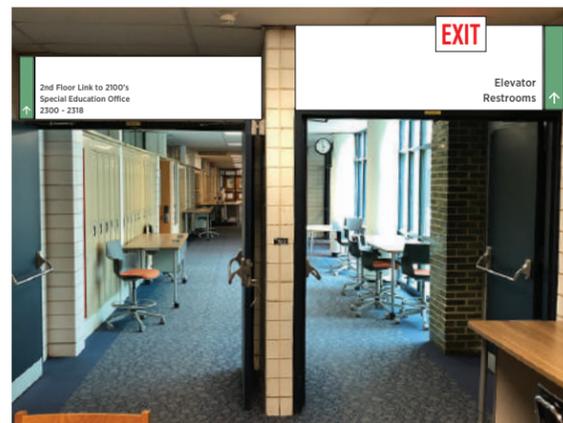
D 2319.53
174"x22.5"



2319.52
174"x22.5"



E 2323.52
L - 80"x21.75" / R - 78"x21.75"



2323.51
L - 80"x22.5" / R - 78"x22.25"

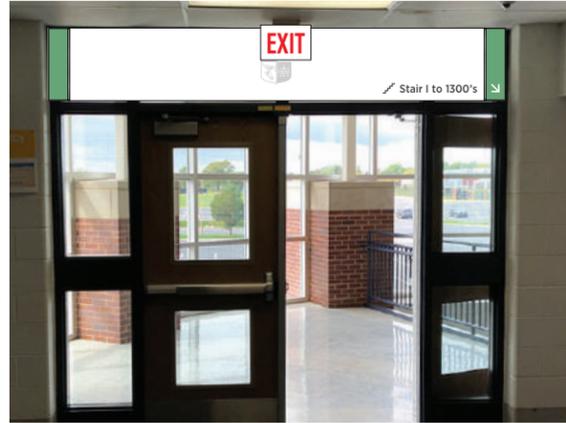


F 2329.52
141.5"x20"

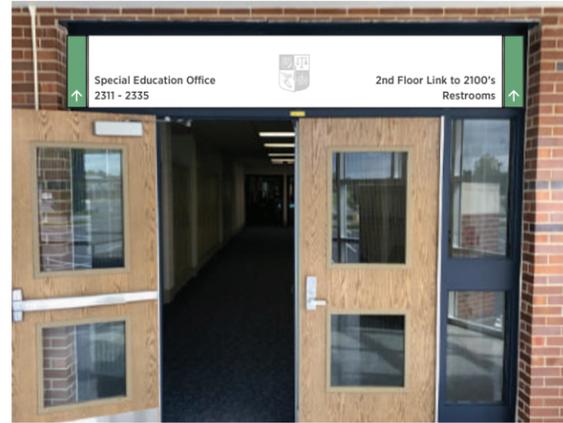


2329.51
141.5"x18"

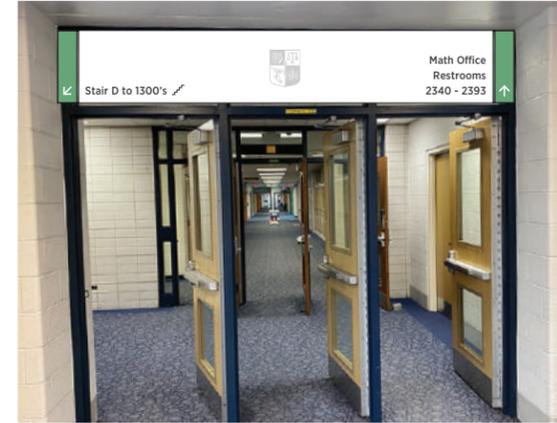
ELEVATION
Scale: 1/4" = 1'-0"



G 2335.52
120"x19"



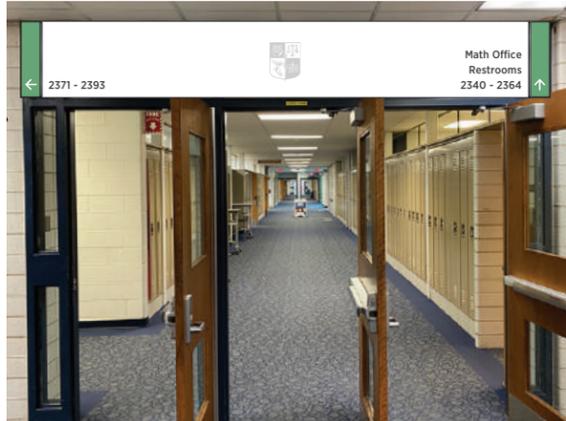
2335.51
120"x20"



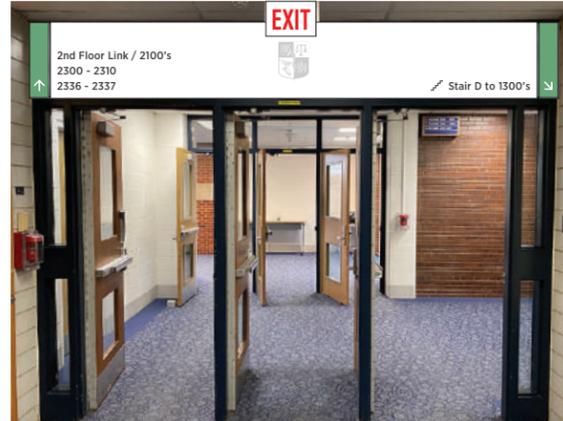
H 2SD.54
120"x20"



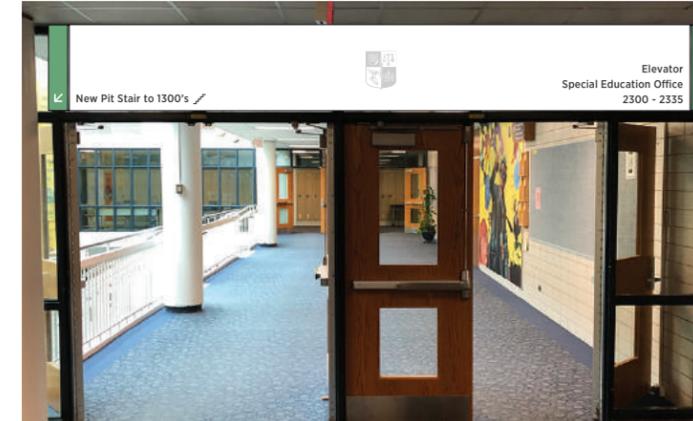
2SD.53
120"x20"



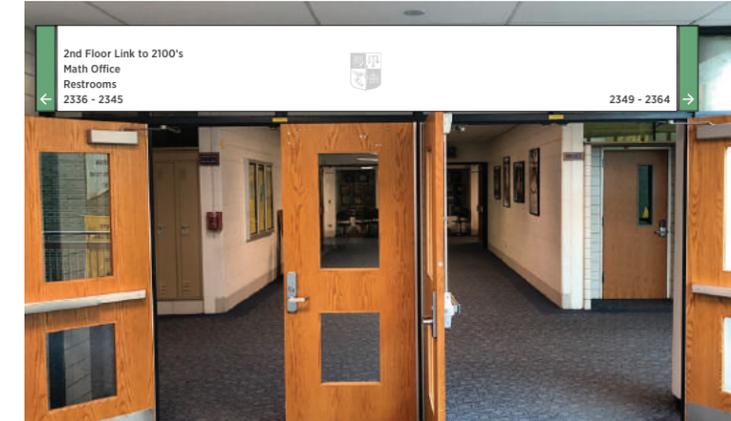
J 2SD.52
139"x20"



2SD.51
139"x20"



K 2348.52
174"x22.5"



2348.51
174"x22.5"



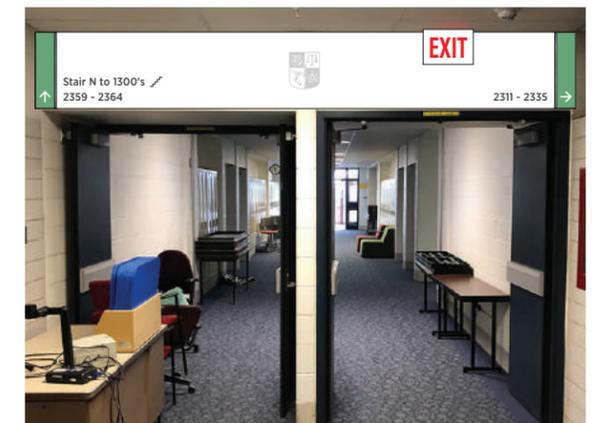
L 2351.52
L - 79.5"x22.5" / R - 78"x22.5"



2351.53
L - 80"x21.5" / R - 78"x21.5"

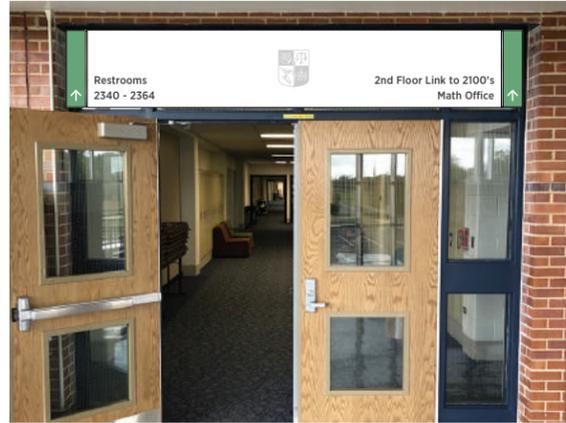


M 2358.51
142"x18"

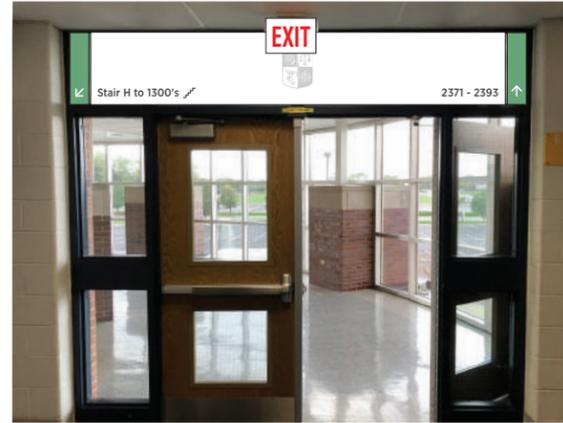


2358.52
142"x20"

ELEVATION
Scale: 1/4" = 1'-0"



N 2363.51
120"x20.25"



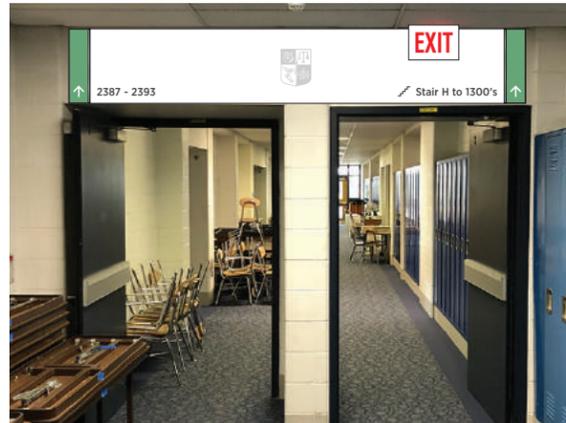
2363.52
120"x19"



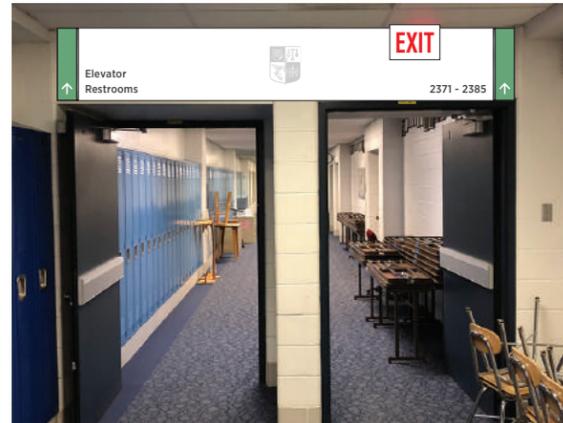
P 2393.52
120"x19"



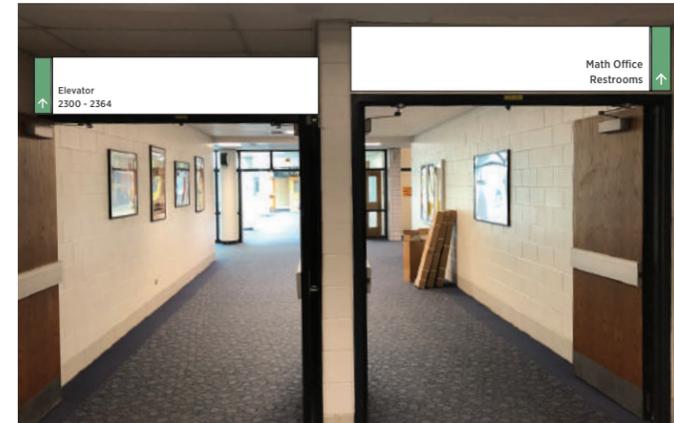
2393.51
120"x20"



Q 2385.52
120"x19.5"



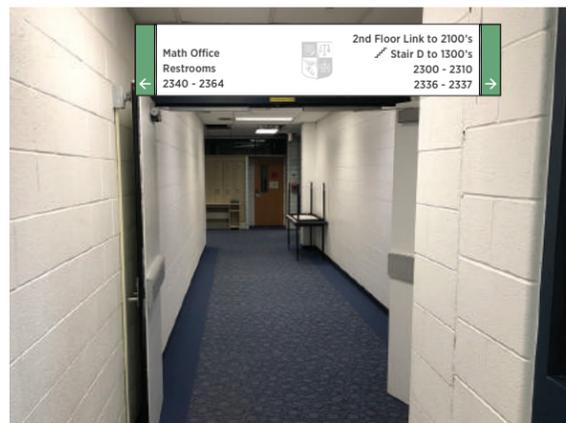
2385.51
120"x19"



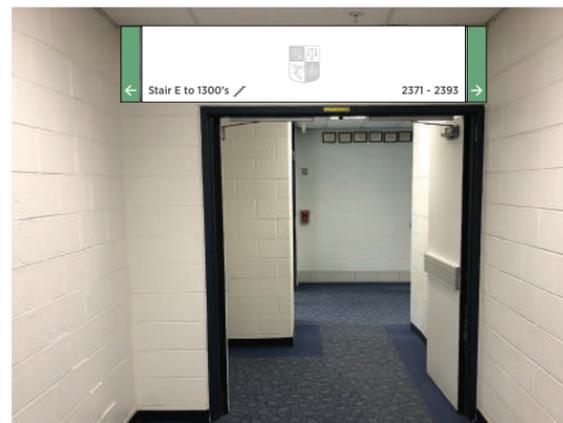
R 2349.52
L - 84"x17" / R - 84"x17"



2349.51
L - 84"x19" / R - 84"x19"



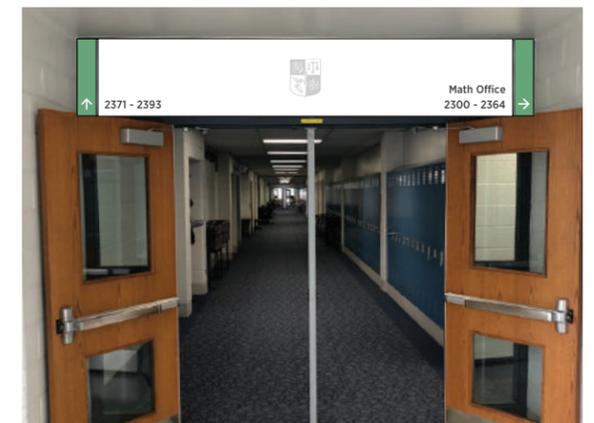
S 2370.52
96"x18.75"



2370.51
96"x20"

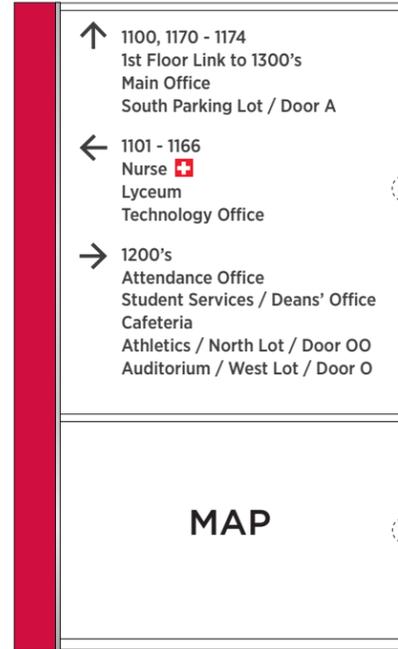


T 2371.51
120"x19.5"

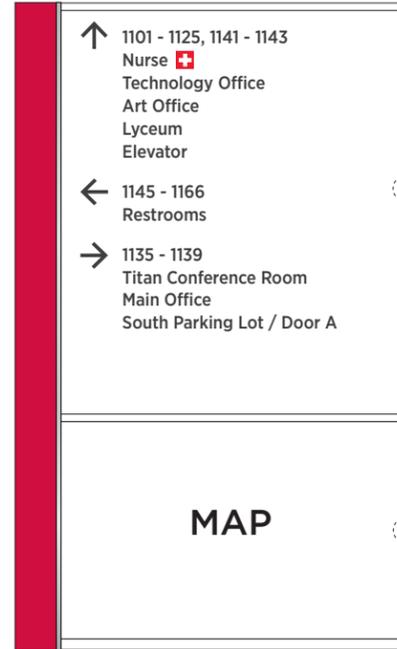


2371.52
120"x20.25"

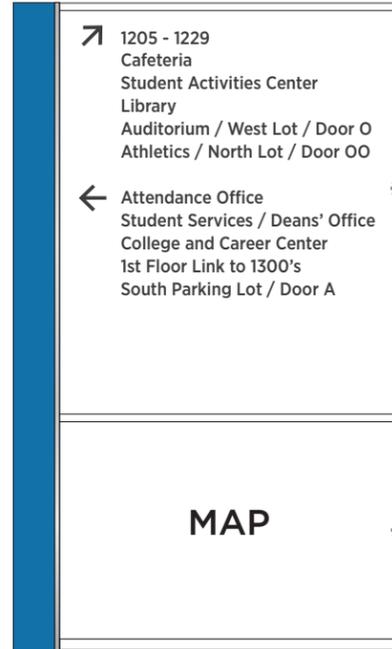
ELEVATION
Scale: 1/4" = 1'-0"



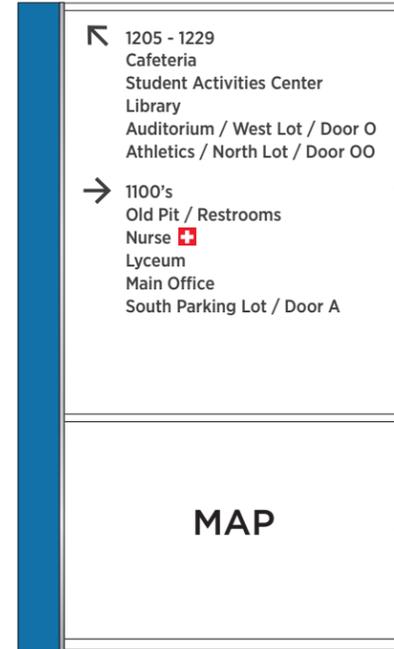
1100H.51 - W3.1



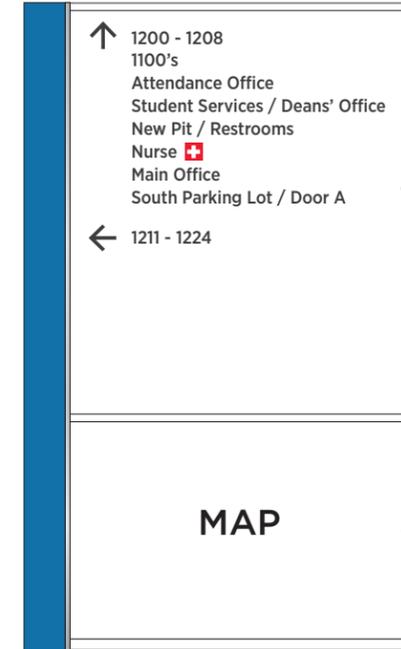
1143.51 - W3.1



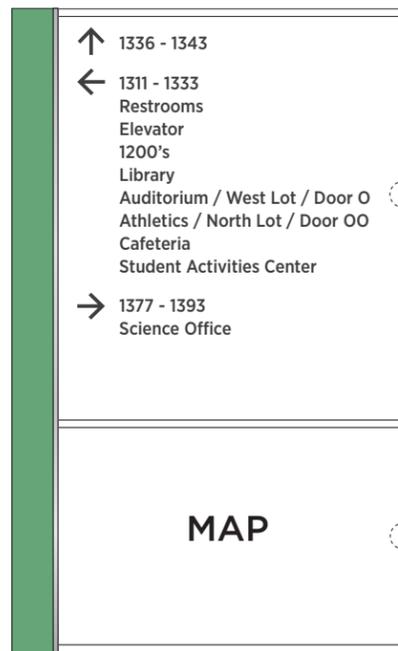
1203.51 - W3.1



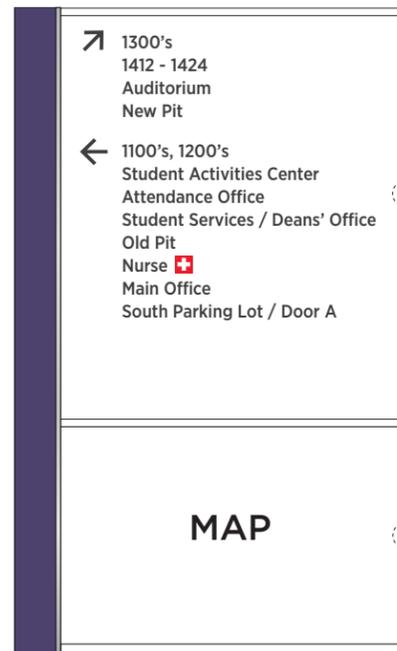
1205.51 - W3.1



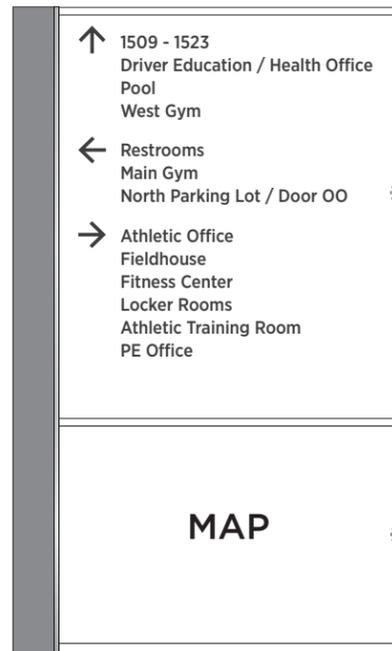
1224.53 - W3.1



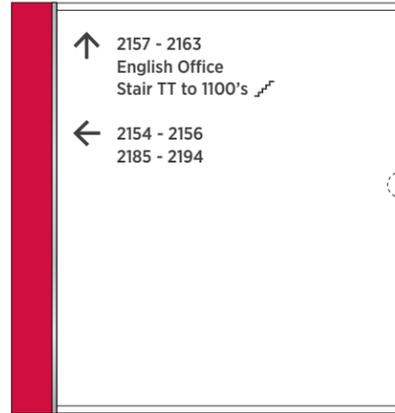
1350.52 - W3.1



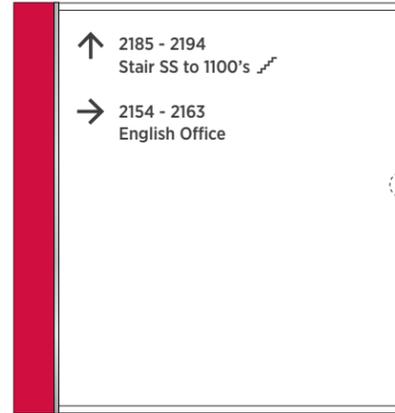
1412.54 - W3.1



1509.53 - W3.1



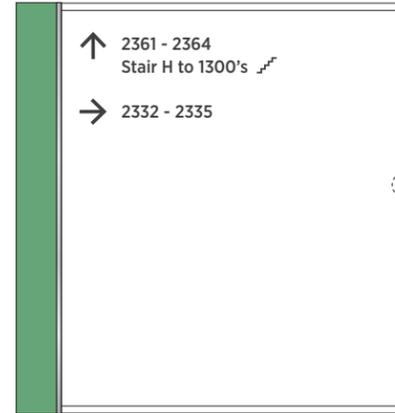
2155.51 - W3.2



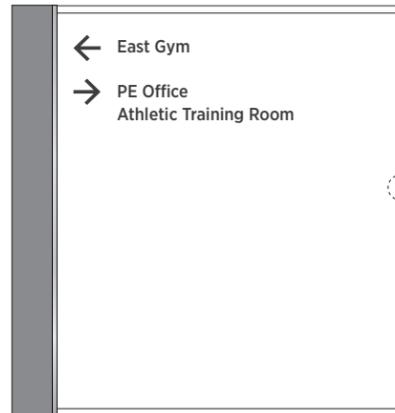
2186.51 - W3.2



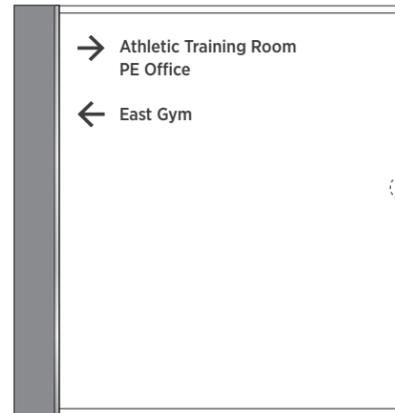
2333.51 - W3.2



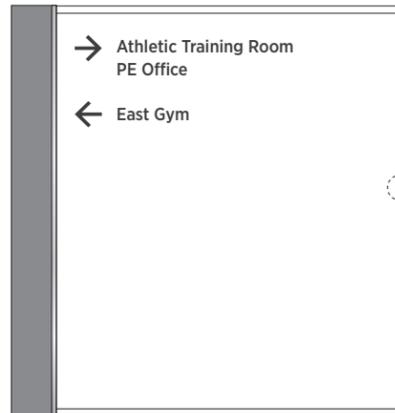
2361.51 - W3.2



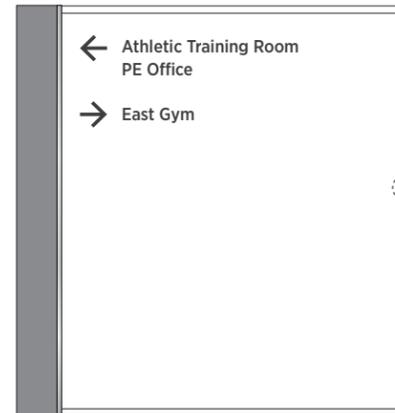
L500.53 - W3.2



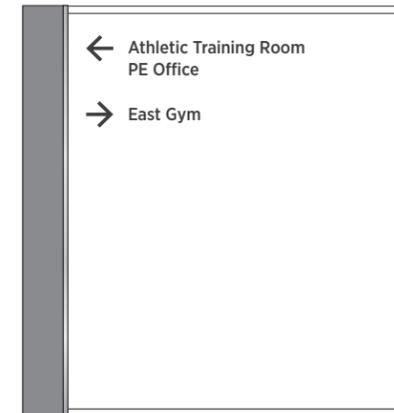
L501.52 - W3.2



L501.53 - W3.2



LSP52 - W3.2



LSP53 - W3.2

South Parking Lot
Door A

1100.53

West Parking Lot
Door O

1401.51

Nurse 

1139.51

North Parking Lot
Door OO

1500.54

Pool Balcony

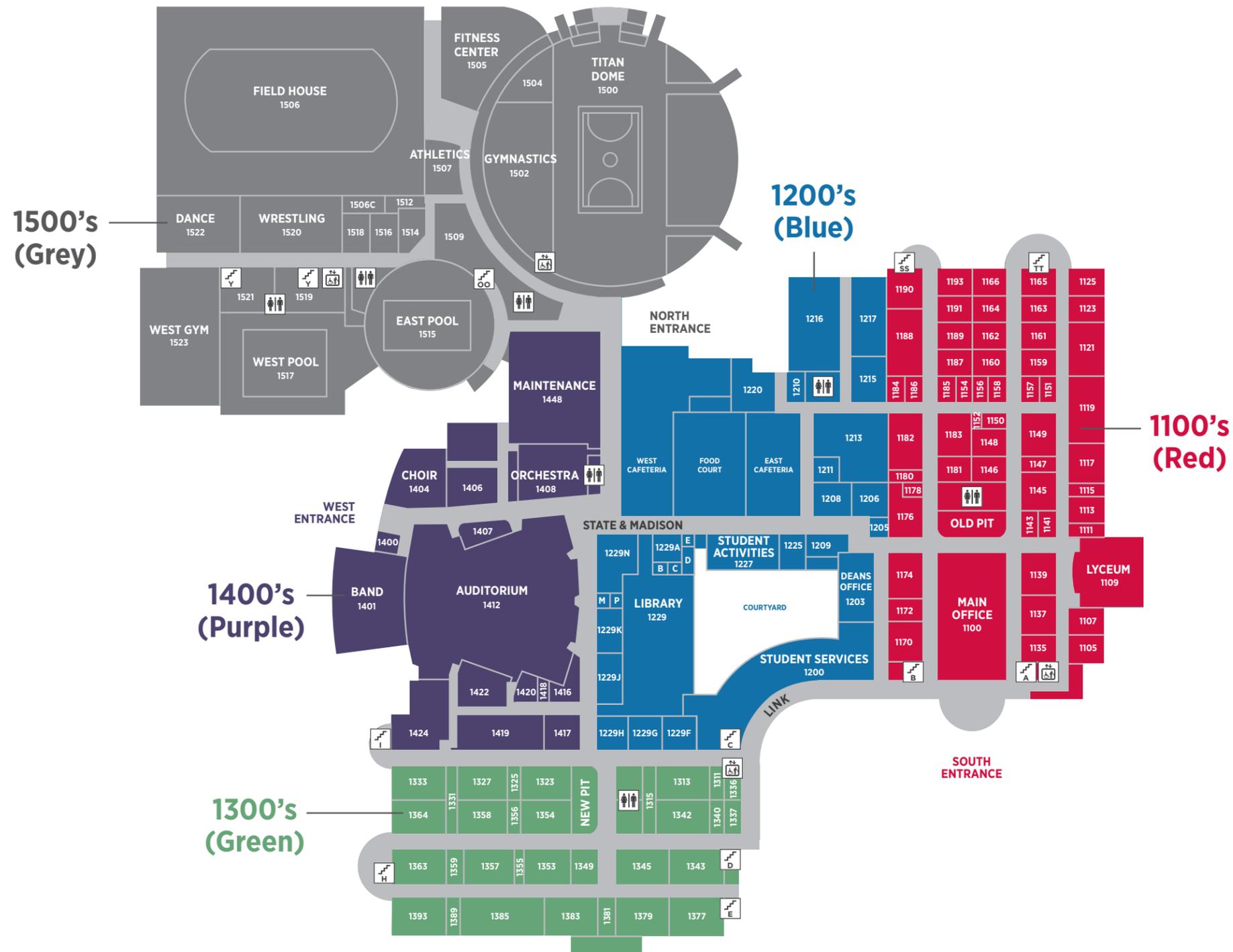
1517.53 (drop down from ceiling w/rods)

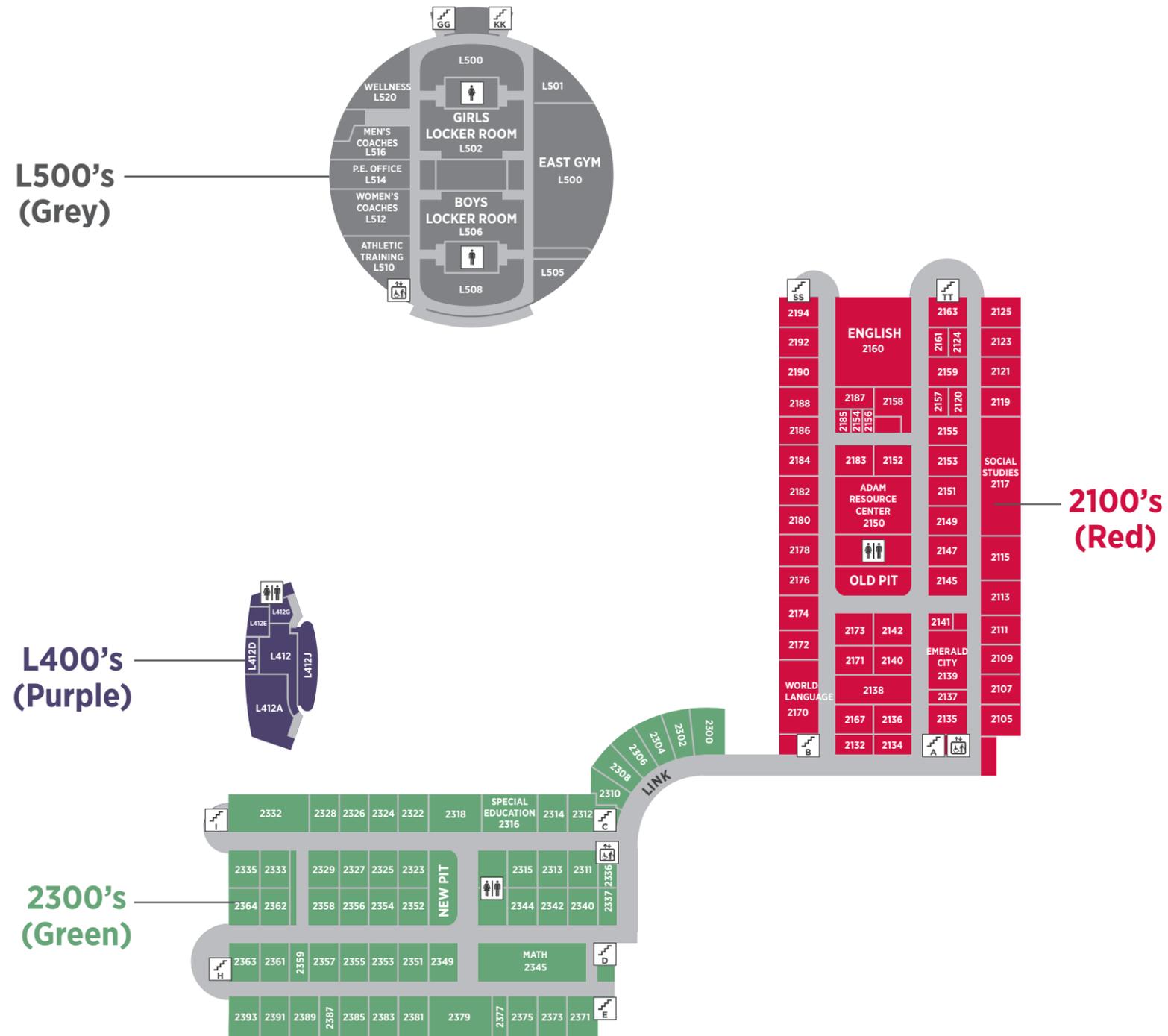
West Gym

1523.51 (drop down from ceiling w/rods)

Task 3

“You Are Here” Maps





Task 4

Exterior Entrance Signage

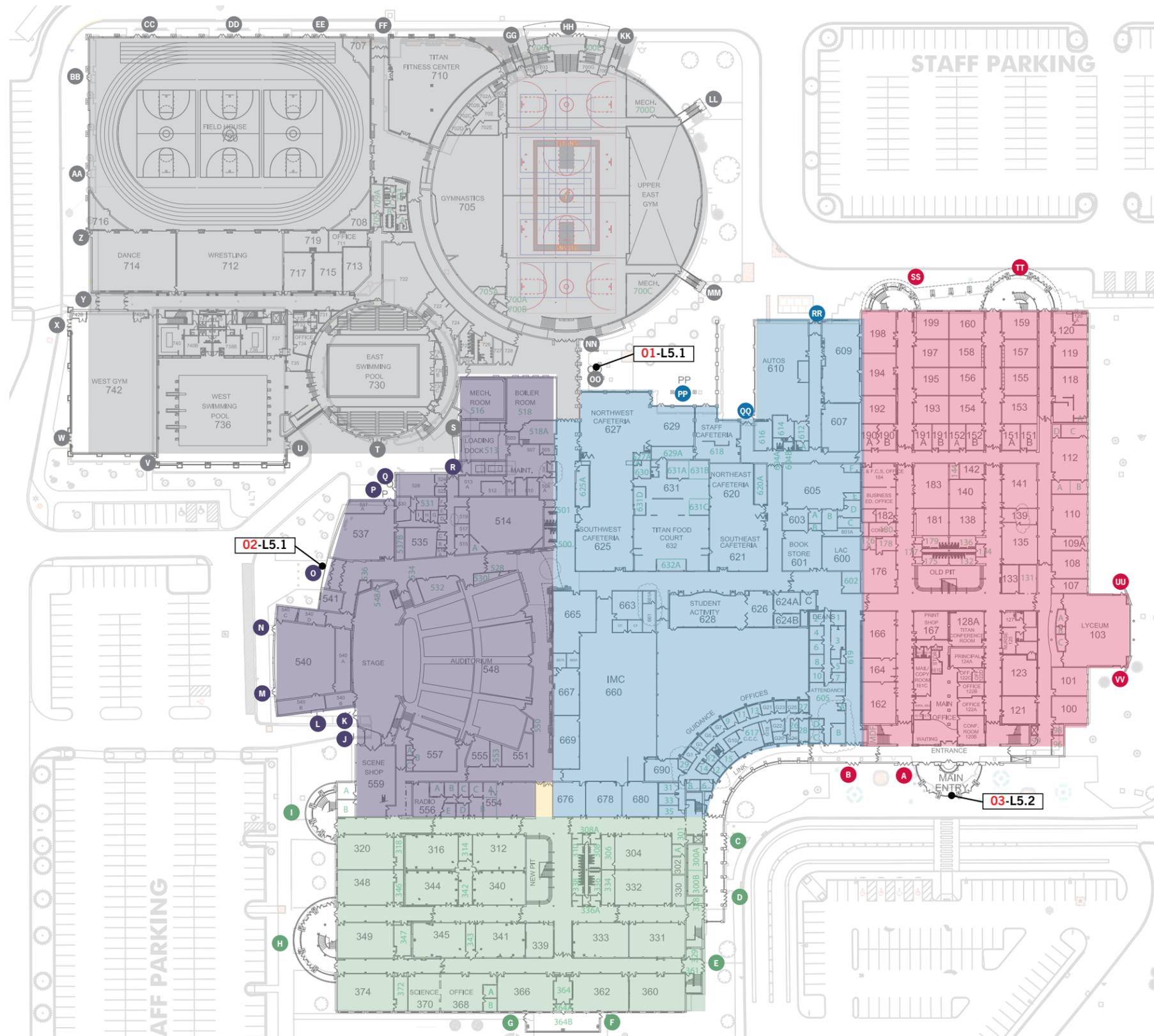


L5.1
Entry Letters
Illuminated



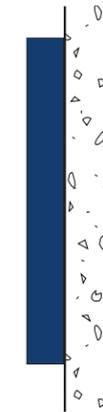
L5.2
Entry Letters
Non-Illuminated

I5.1
Door ID
Plaque



1'-0" **WEST ENTRANCE**

ELEVATION - L5.1
Scale: 1/2" = 1'-0"



SECTION - L5.1
Scale: NTS

SPECIFICATIONS

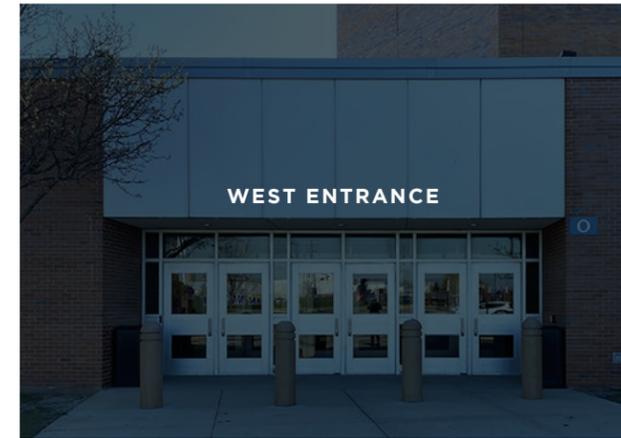
- 1 Lettering
3" thk. front illuminated channel letters
Bitro Blue DuLite Acrylic
Font: Gotham Bold, +100 tracking

GENERAL NOTES

A. All painted finishes to have satin or eggshell finish, unless otherwise noted.



PHOTO DROP-IN *
Scale: NTS

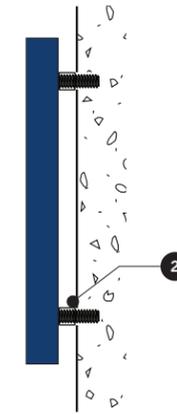


blue day / white night

NOTE *
Letter Size for Sign Type L5.1 based on field review / Paper Template
Requires verification prior to fabrication + install.

1'-0" SOUTH ENTRANCE

ELEVATION - L5.2
Scale: 1/2" = 1'-0"



SECTION - L5.2
Scale: NTS

SPECIFICATIONS

- 1 Lettering
1/2" thk. flat-cut aluminum letters. Drill + tap at 2nd surface for threaded Mounting Studs
Paint to match PMS 654
Font: Gotham Bold, +100 tracking
- 2 Fastener
S.S. Threaded Mounting Studs w/ 1/4" spacers.
Use silicone sealant at all Canopy penetrations

GENERAL NOTES

A. All painted finishes to have satin or eggshell finish, unless otherwise noted.

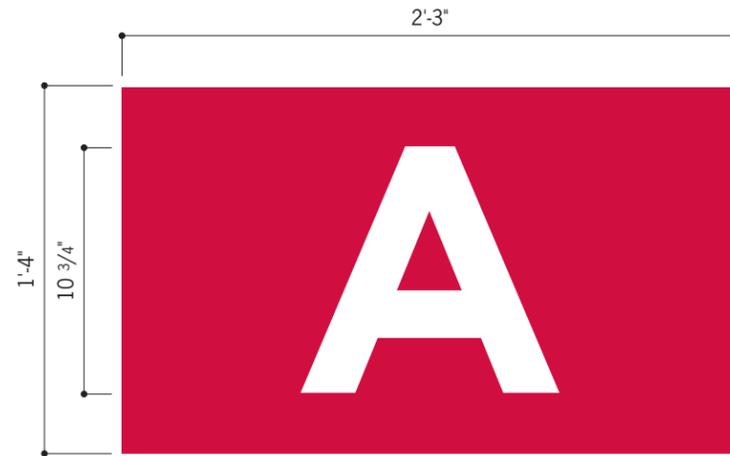


PHOTO DROP-IN *
Scale: NTS

NOTE *
Letter Size for Sign Type L5.2 based on field review / Paper Template
Requires verification prior to fabrication + install.

SPECIFICATIONS

- 1 Door Tags
 - 1/8" thick aluminum panel mechanically fastened to building
 - Paint to match zone color with Matthews Paint
 - Reflective vinyl letters
 - Font: Gotham Bold



ELEVATION - I5.1
Scale: 1 1/2" = 1'-0"



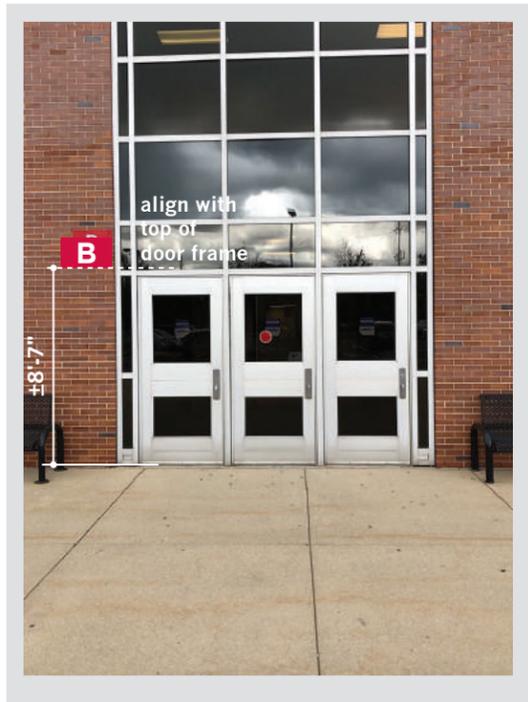
A - Location 1
Scale: 1/8"=1'-0"



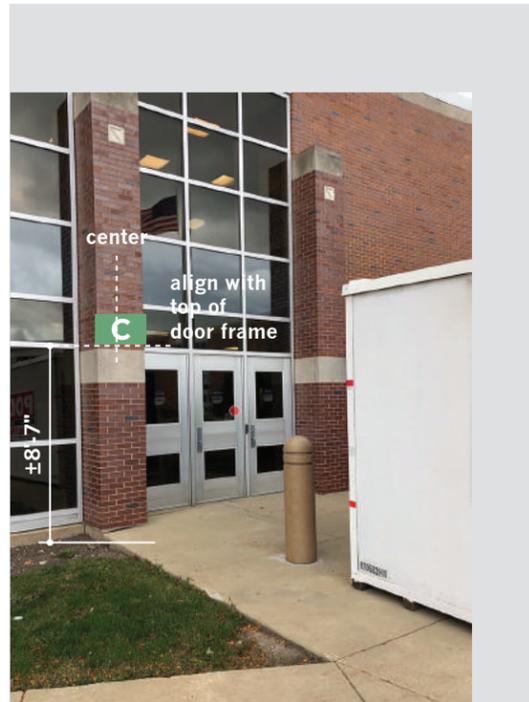
A - Location 2/3
Scale: 1/8"=1'-0"



A - Location 4
Scale: 1/8"=1'-0"



B - Location
Scale: 1/8"=1'-0"



C - Location
Scale: 1/8"=1'-0"



D - Location
Scale: 1/8"=1'-0"



E - Location
Scale: 1/8"=1'-0"



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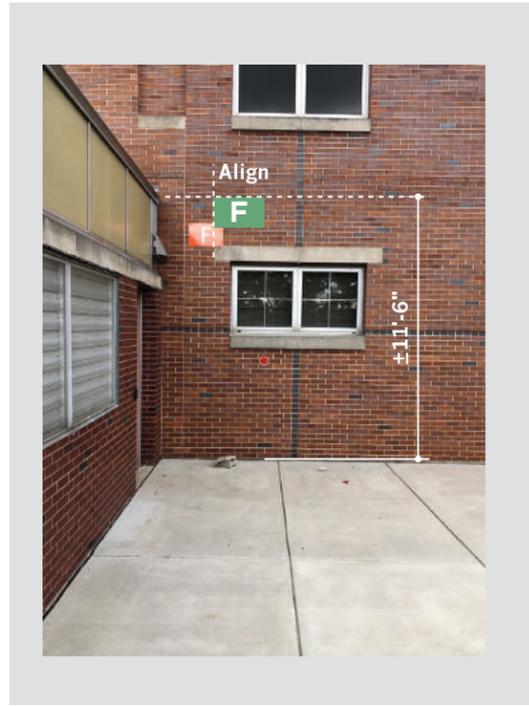
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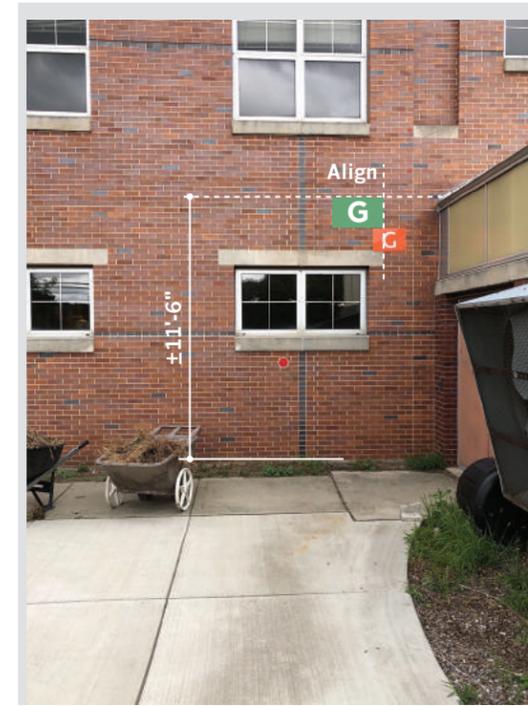
F - View of Door
Not To Scale



F - Location
Scale: 1/8"=1'-0"



G - View of Door
Not To Scale



G - Location
Scale: 1/8"=1'-0"



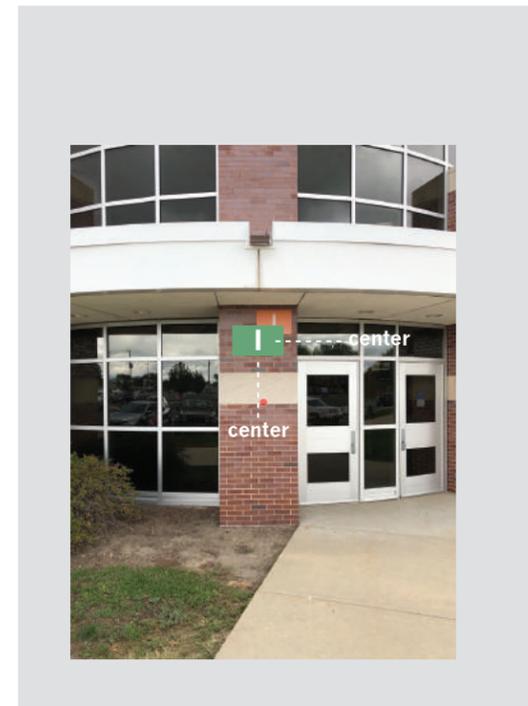
H - View of Door
Not To Scale



H - Location
Scale: 1/8"=1'-0"



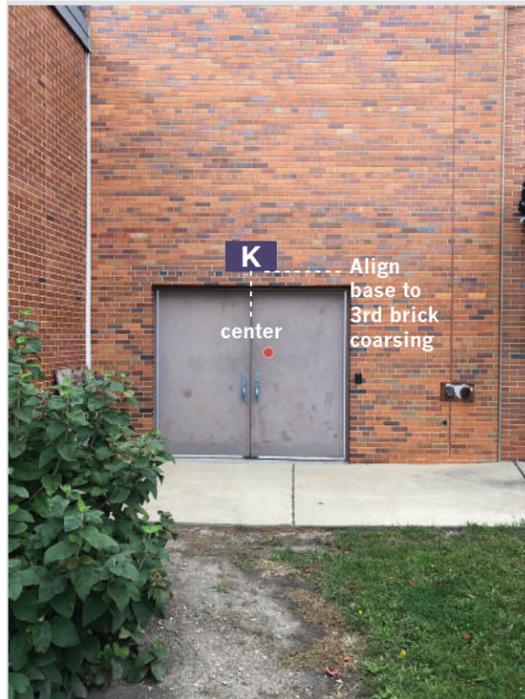
I - View of Door
Not To Scale



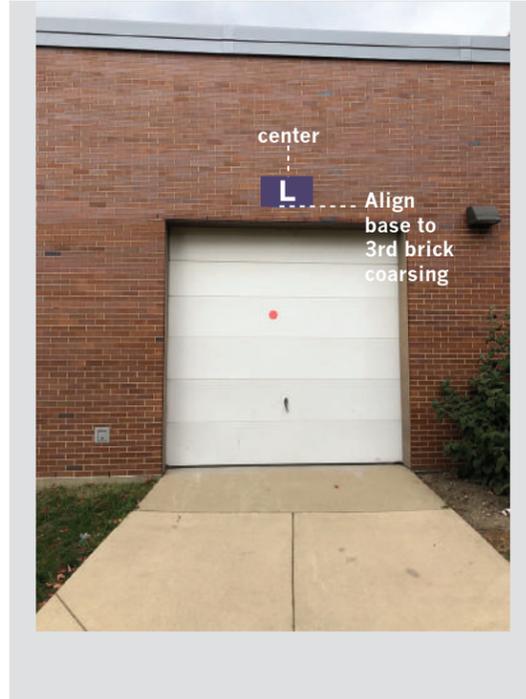
I - Location
Scale: 1/8"=1'-0"



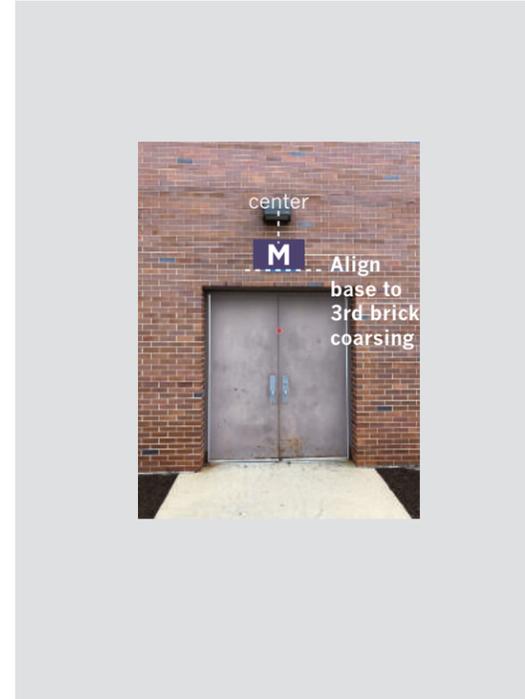
J - Location
Scale: 1/8"=1'-0"



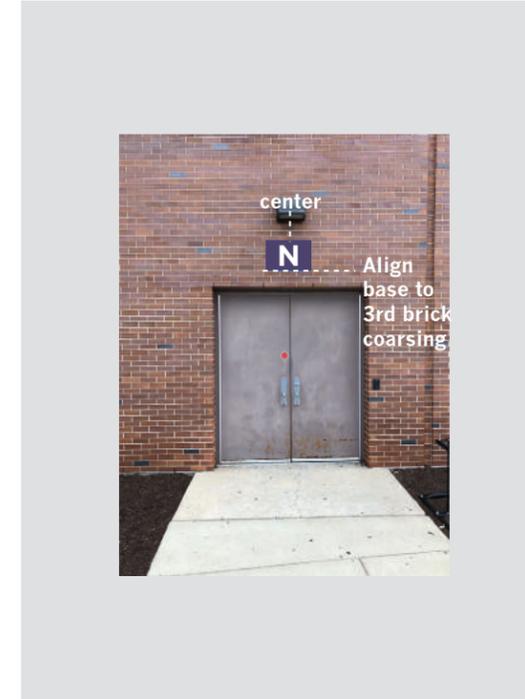
K - Location
Scale: 1/8"=1'-0"



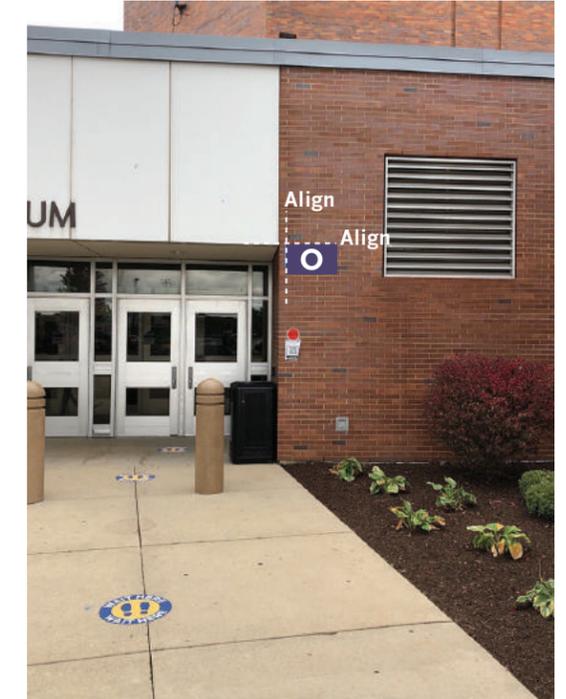
L - Location
Scale: 1/8"=1'-0"



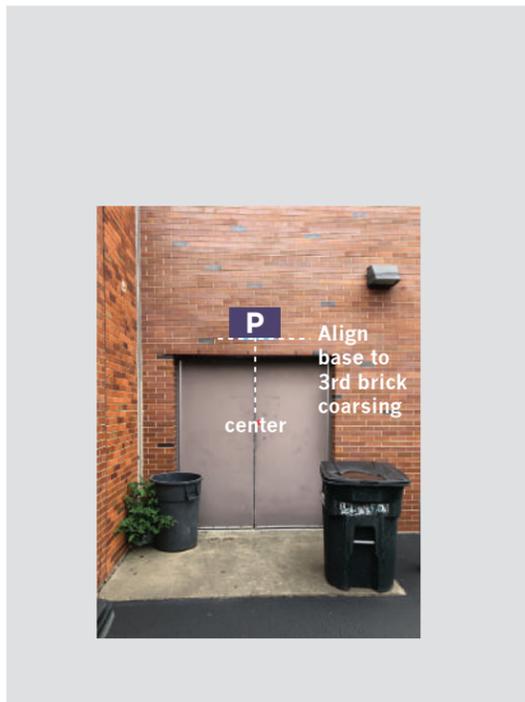
M - Location
Scale: 1/8"=1'-0"



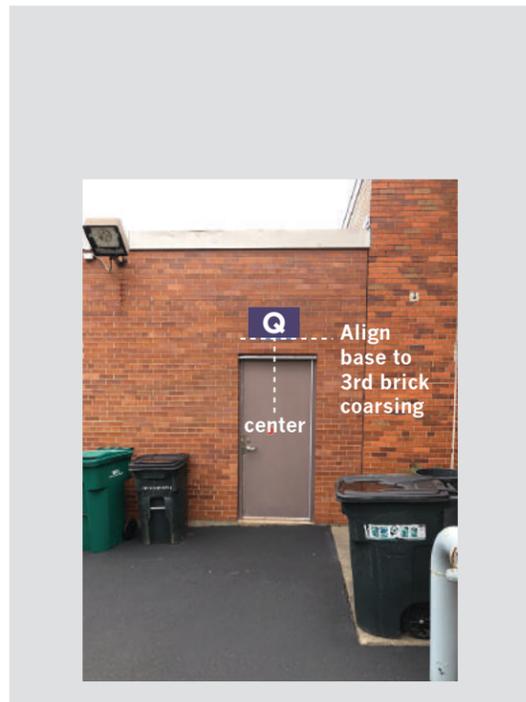
N - Location
Scale: 1/8"=1'-0"



O - Location
Scale: 1/8"=1'-0"



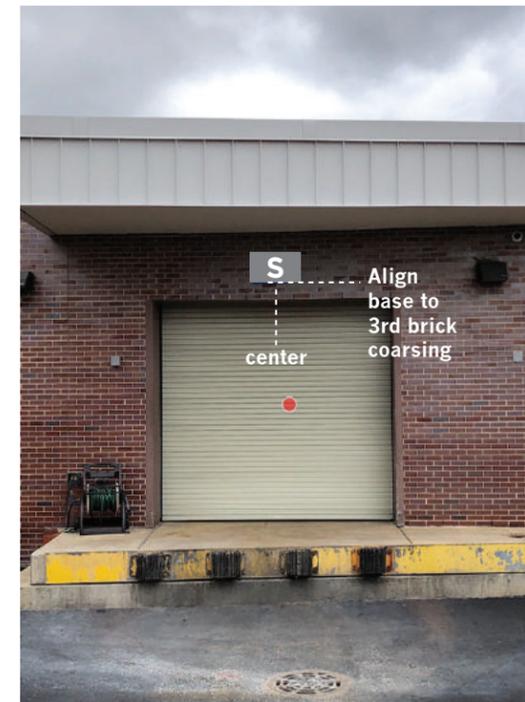
P - Location
Scale: 1/8"=1'-0"



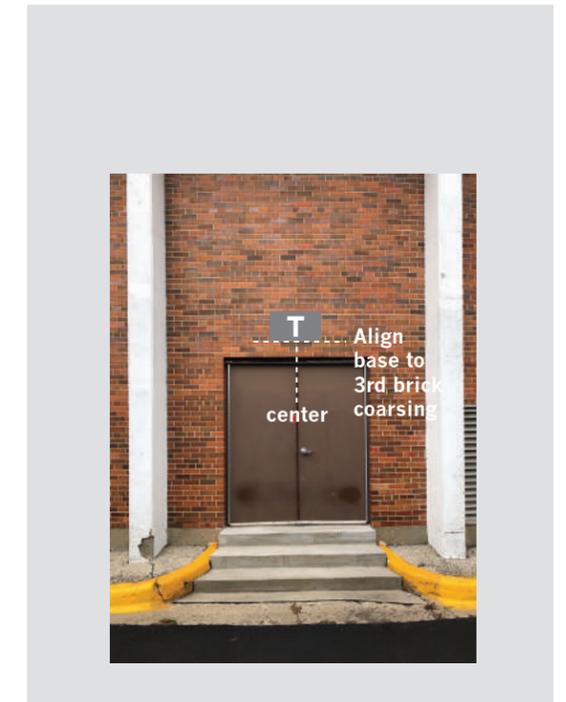
Q - Location
Scale: 1/8"=1'-0"



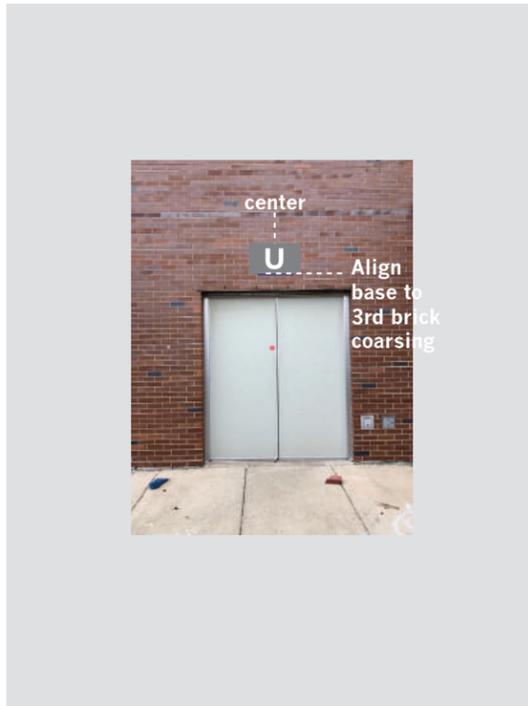
R - Location
Scale: 1/8"=1'-0"



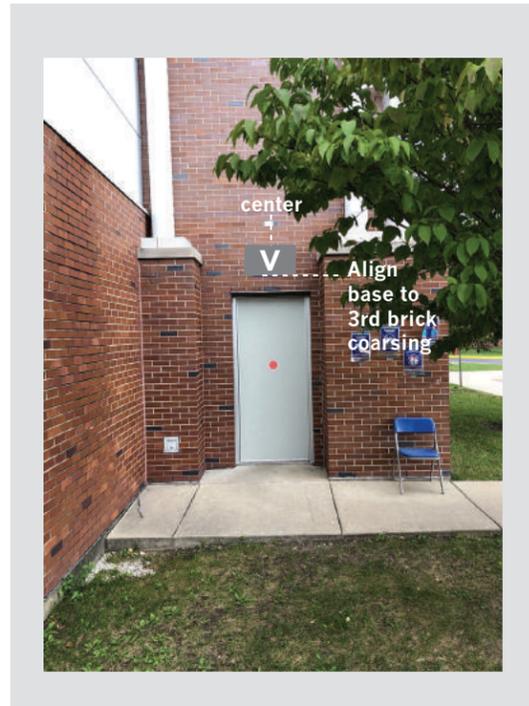
S - Location
Scale: 1/8"=1'-0"



T - Location
Scale: 1/8"=1'-0"



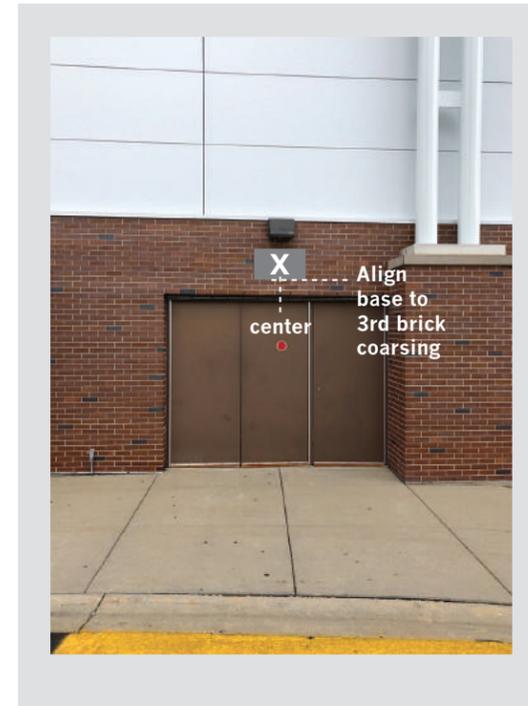
U - Location
Scale: 1/8"=1'-0"



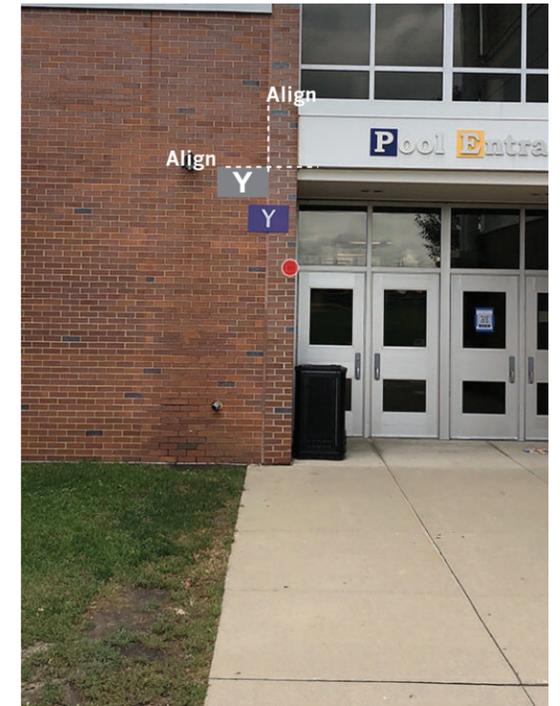
V - Location
Scale: 1/8"=1'-0"



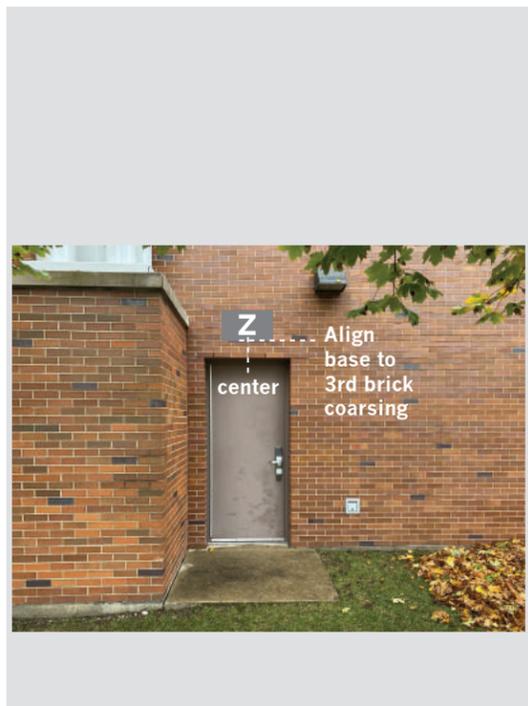
W - Location
Scale: 1/8"=1'-0"



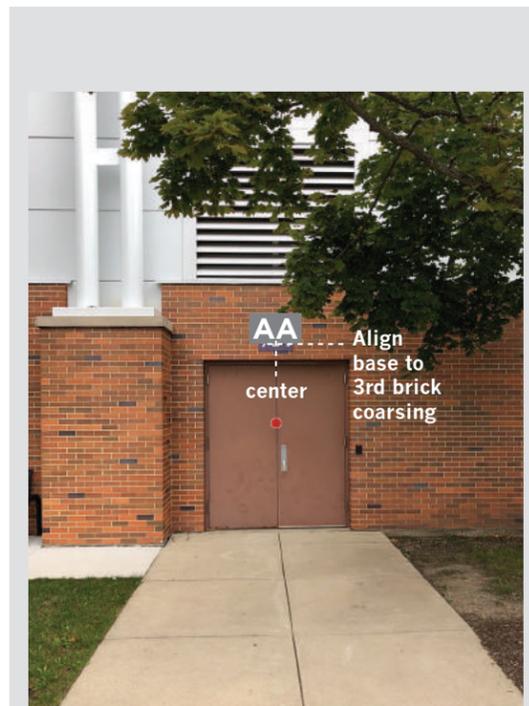
X - Location
Scale: 1/8"=1'-0"



Y - Location
Scale: 1/8"=1'-0"



Z - Location
Scale: 1/8"=1'-0"



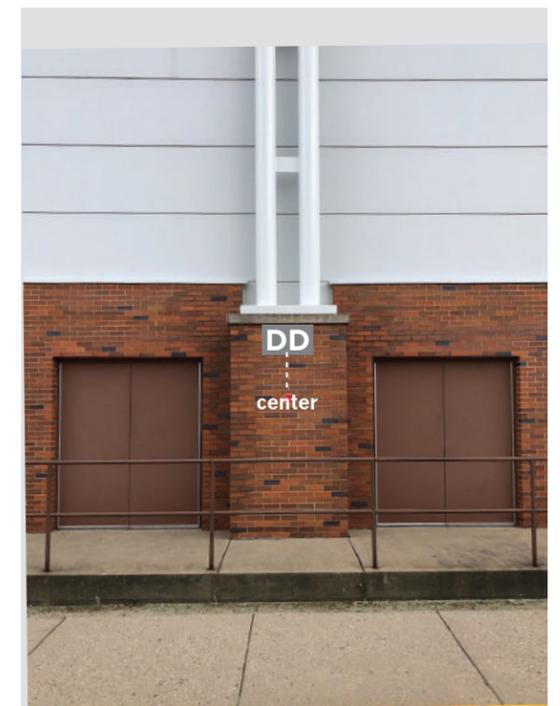
AA - Location
Scale: 1/8"=1'-0"



BB - Location
Scale: 1/8"=1'-0"



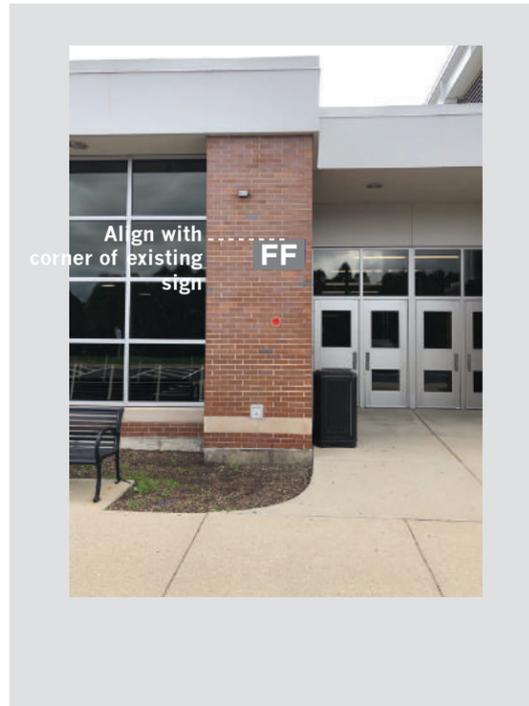
CC - Location
Scale: 1/8"=1'-0"



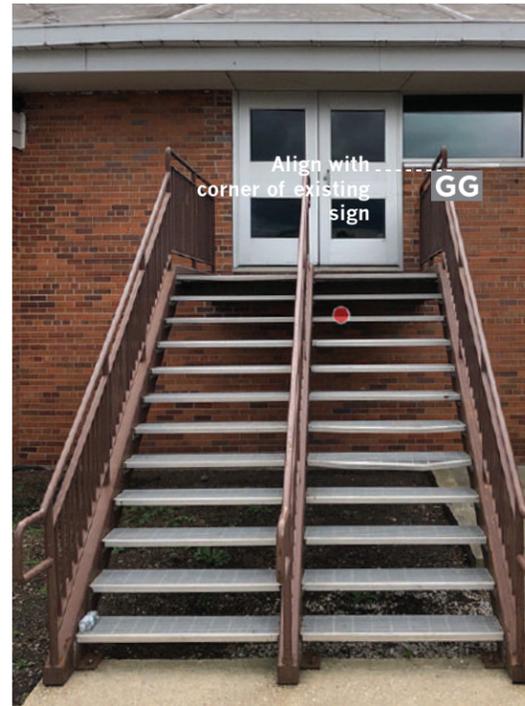
DD - Location
Scale: 1/8"=1'-0"



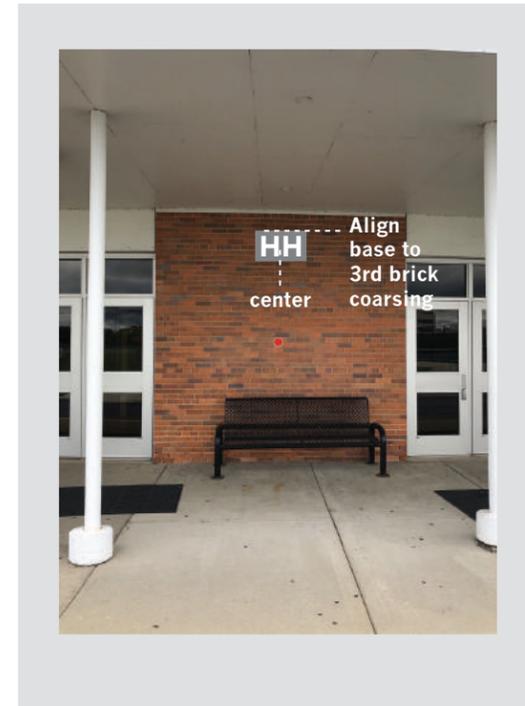
EE - Location
Scale: 1/8"=1'-0"



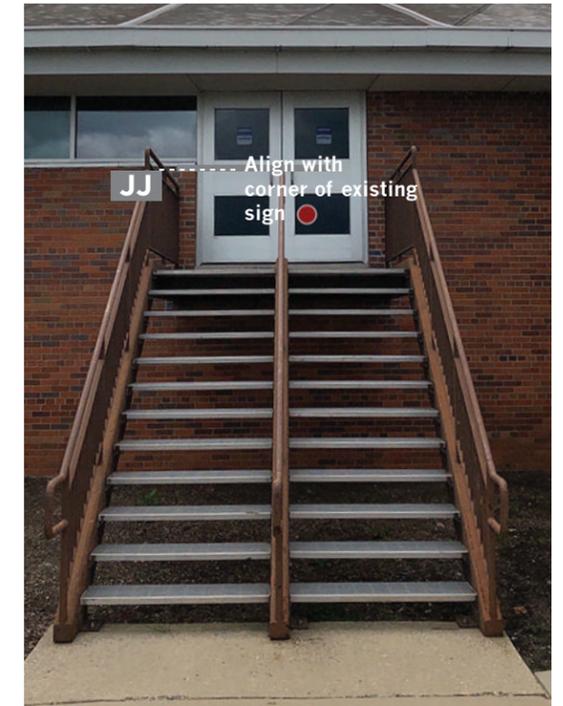
FF - Location
Scale: 1/8"=1'-0"



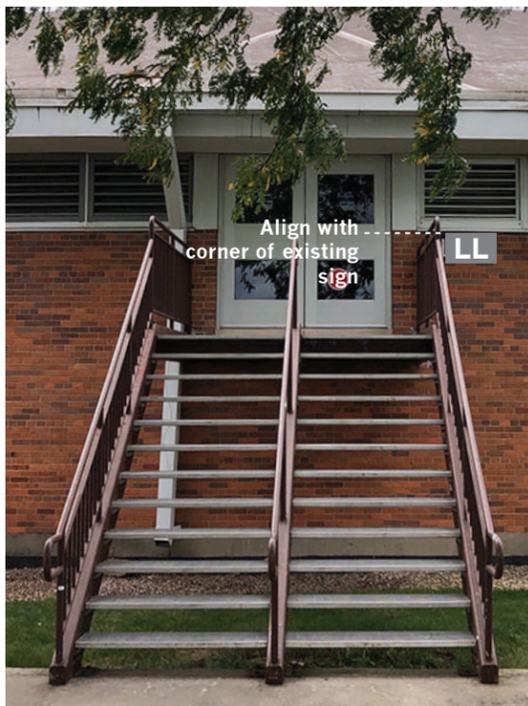
GG - Location
Scale: 1/8"=1'-0"



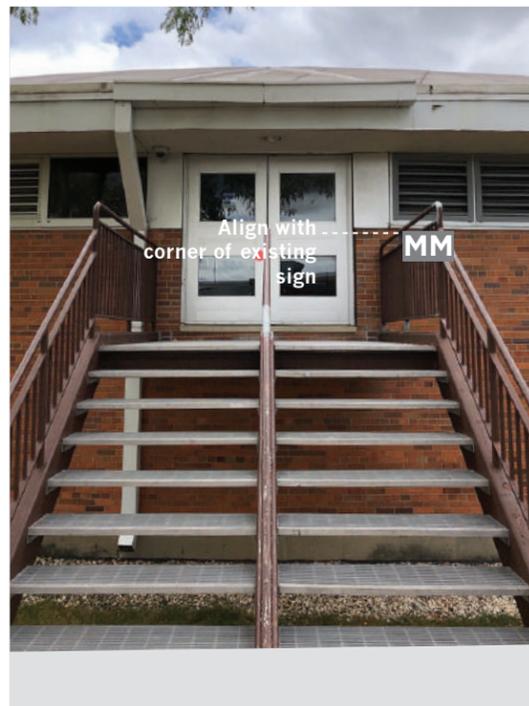
HH - Location
Scale: 1/8"=1'-0"



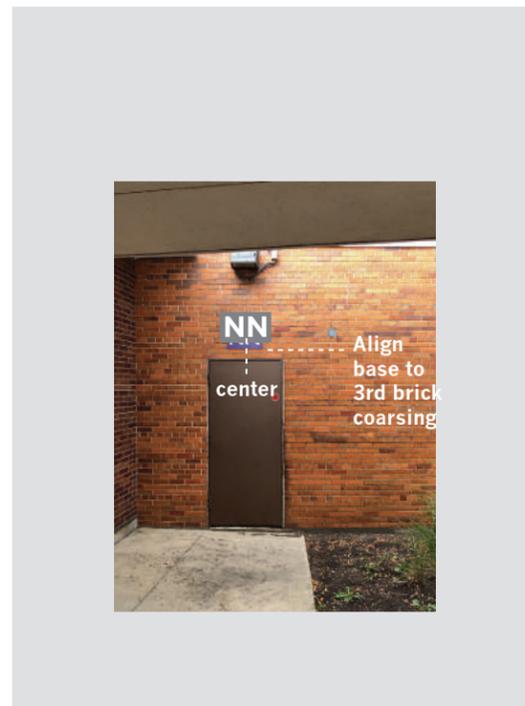
JJ - Location
Scale: 1/8"=1'-0"



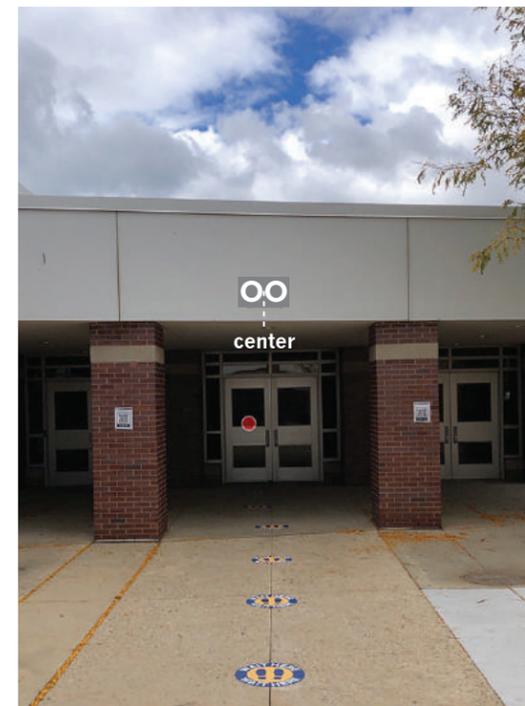
LL - Location
Scale: 1/8"=1'-0"



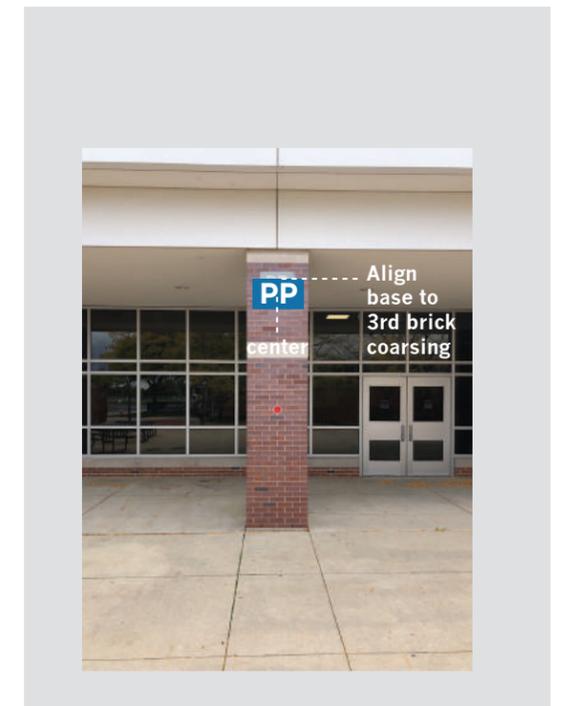
MM - Location
Scale: 1/8"=1'-0"



NN - Location
Scale: 1/8"=1'-0"



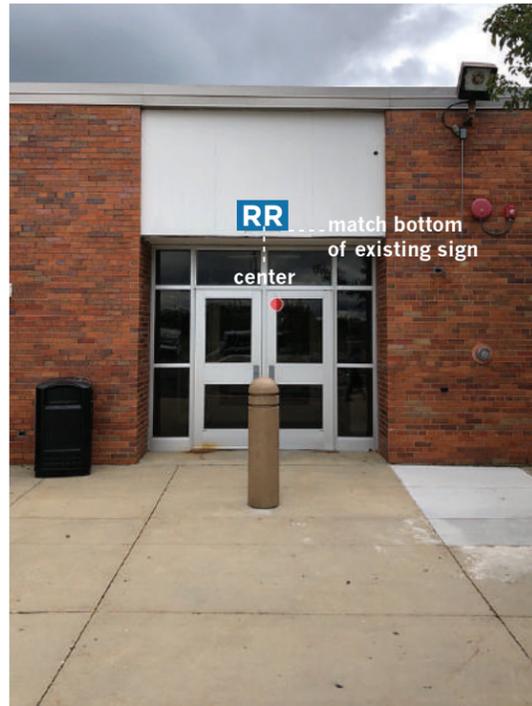
OO - Location
Scale: 1/8"=1'-0"



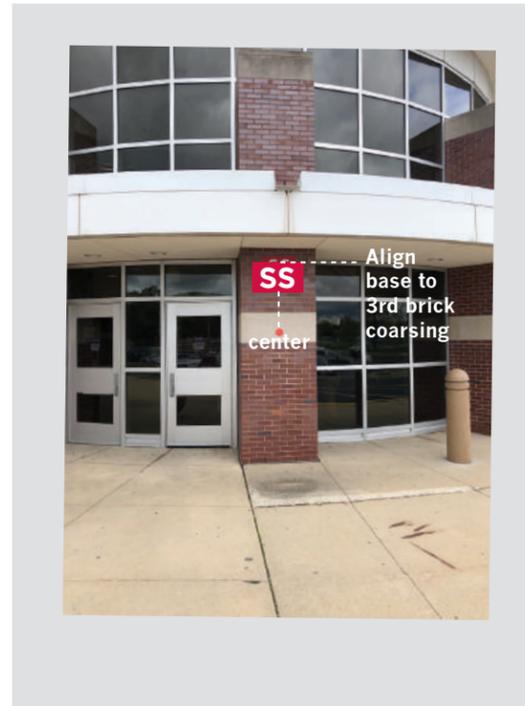
PP - Location
Scale: 1/8"=1'-0"



QQ - Location
Scale: 1/8"=1'-0"



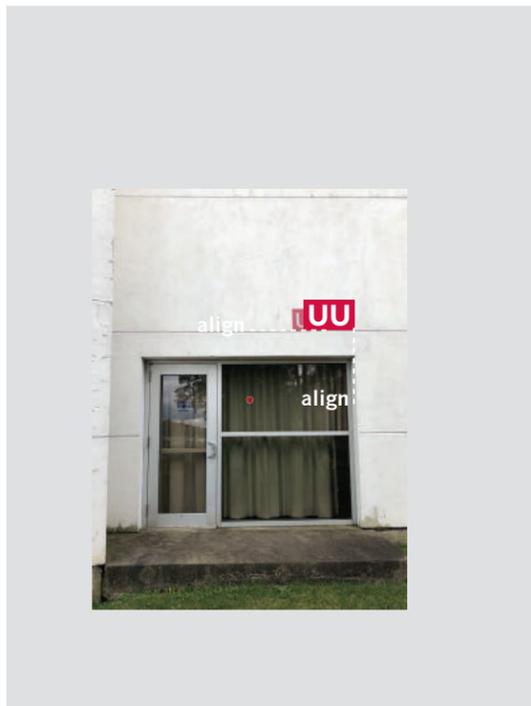
RR - Location
Scale: 1/8"=1'-0"



SS - Location
Scale: 1/8"=1'-0"



TT - Location
Scale: 1/8"=1'-0"



UU - Location
Scale: 1/8"=1'-0"



VV - Location
Scale: 1/8"=1'-0"

Task 5

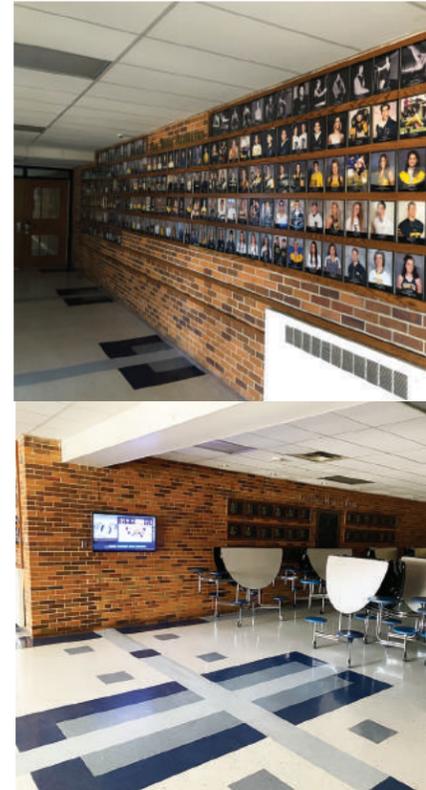
Theming Graphics



CIRCULATION KEY

- Primary Circulation
- Secondary Circulation
- Vertical Circulation
- Toilets
- Entrances

Location 1A

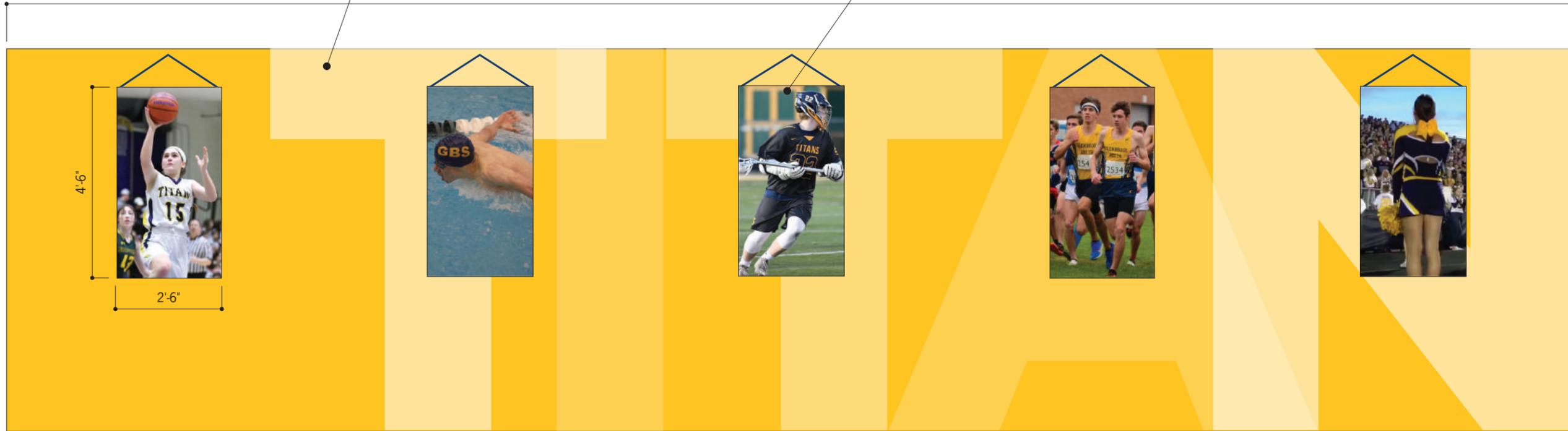


Digitally printed vinyl for textured wall with UV matte protective overlamine heat + roller applied to wall surface per manufacturer spec

Digitally printed banners or permanently mounted frame system with changeable stretch fabric

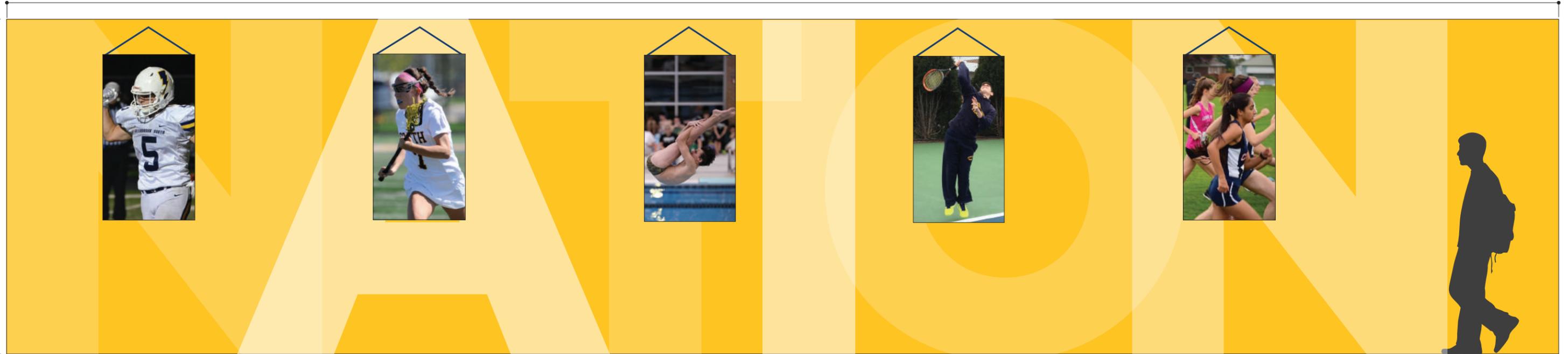
37'-0" VIF

9'-0" VIF



42'-0" VIF

9'-0"



ELEVATION
Scale: 3/8" = 1'-0"



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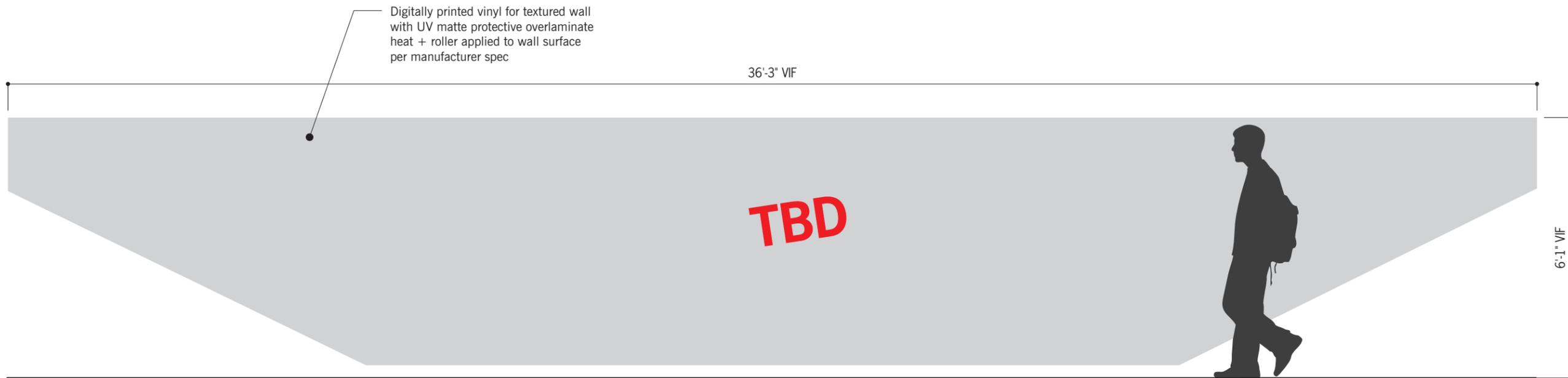
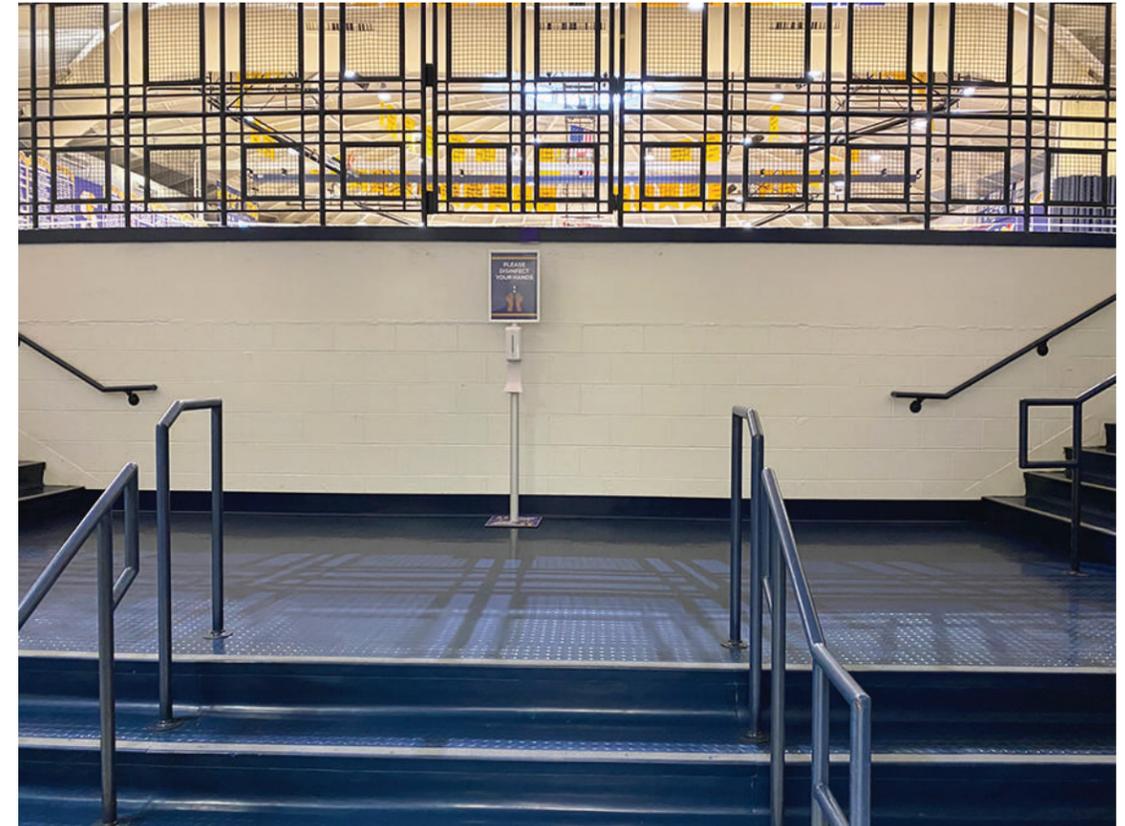
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Location 1B



ELEVATION
Scale: 3/8" = 1'-0"



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Digitally printed vinyl for textured wall with UV matte protective overlaminated heat + roller applied to wall surface per manufacturer spec

ELEVATION
Scale: 3/8" = 1'-0"



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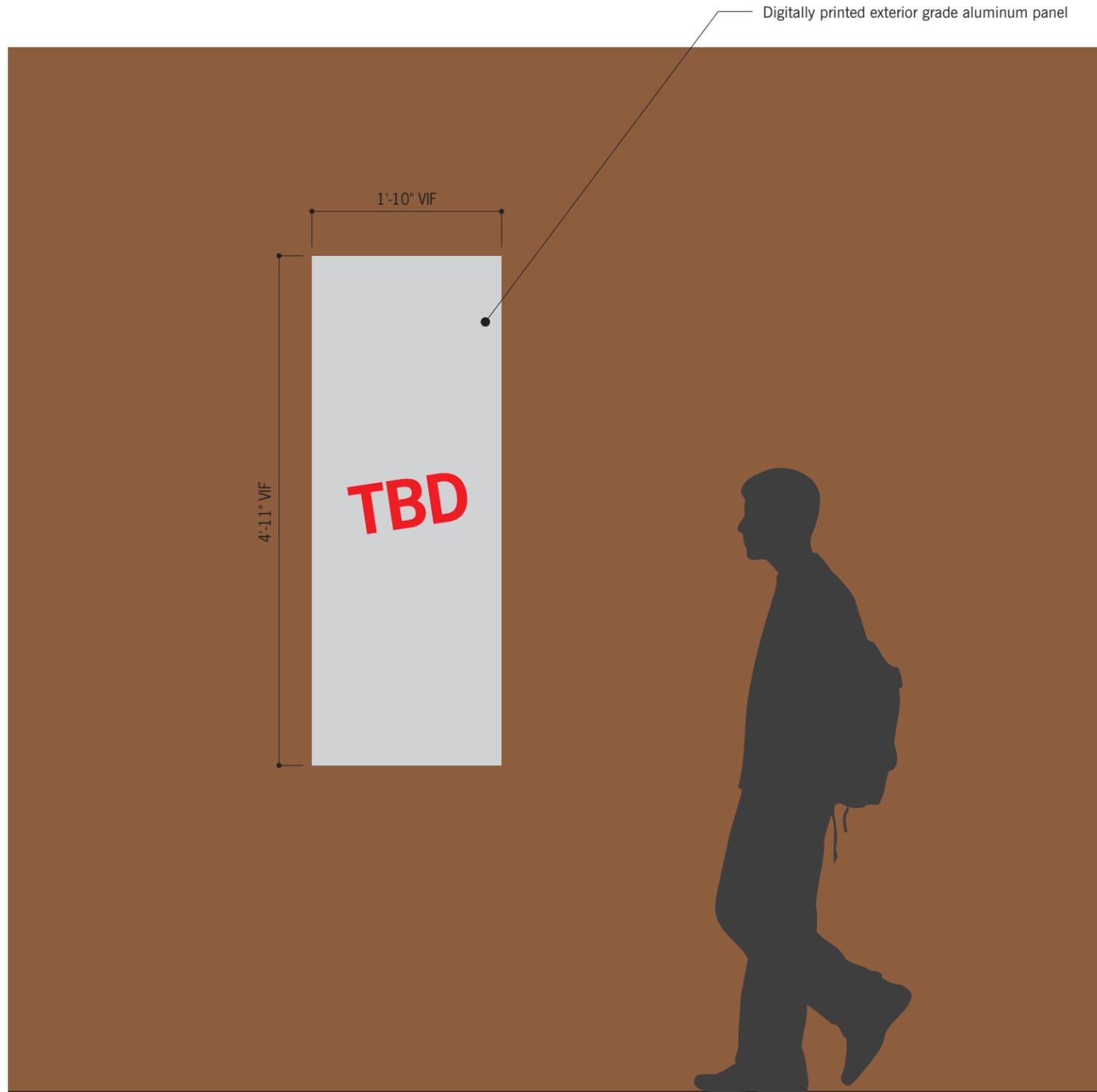
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ELEVATION
Scale: 3/8" = 1'-0"



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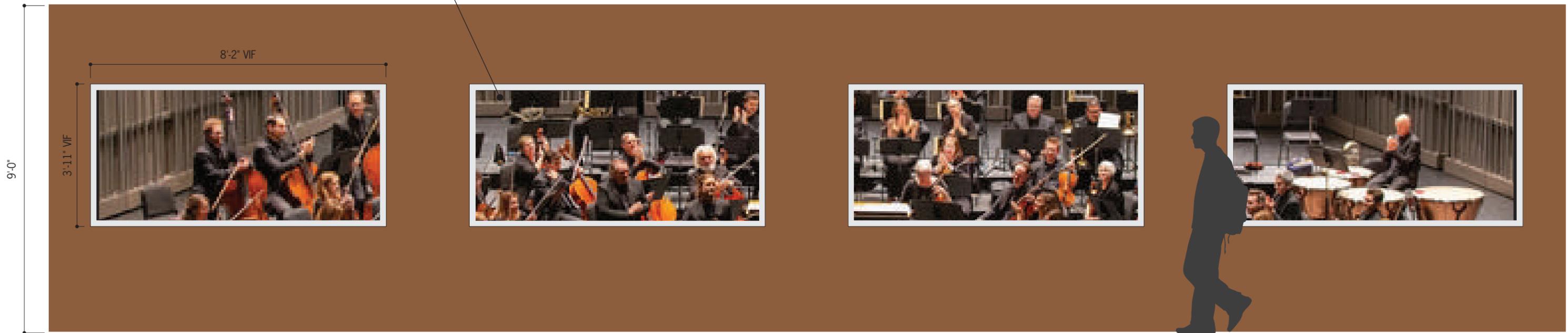
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Replace existing glass with frosted acrylic and digitally printed translucent vinyl image
Final Art TBD

GBS to provide LED light strips for back lit illumination



ELEVATION
 Scale: 3/8" = 1'-0"



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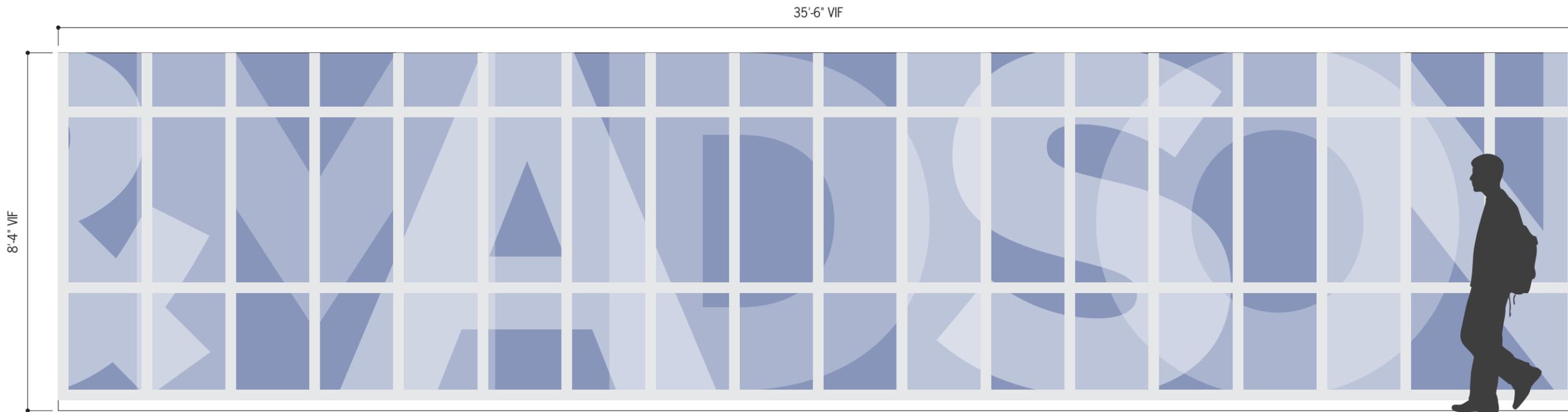
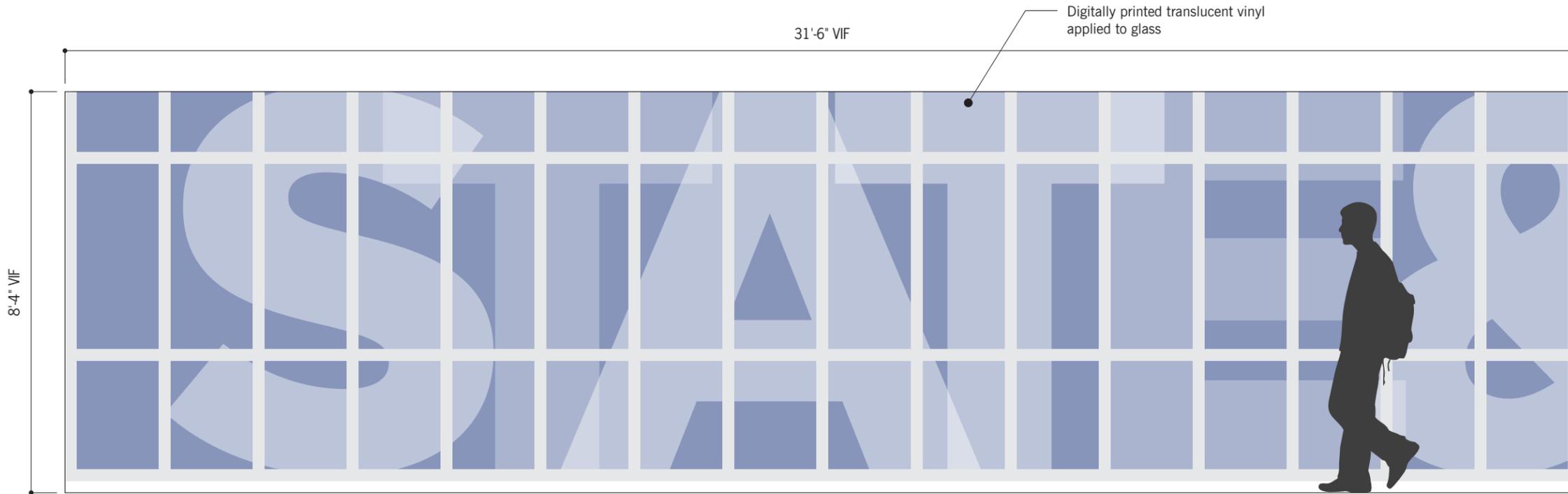
P 773.523.9300
 F 773.523.9305
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Glenbrook South High School
 Interior Signage & Wayfinding Standards
 Phase 4.0 - Construction Documents

02.01.21

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Location 3



ELEVATION
Scale: 3/8" = 1'-0"



Glenbrook South High School
4000 West Lake Avenue
Glenview, Illinois 60026

Cardosi Kiper Design Group
2437 South Western Avenue
Chicago, Illinois 60608

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ELEVATION
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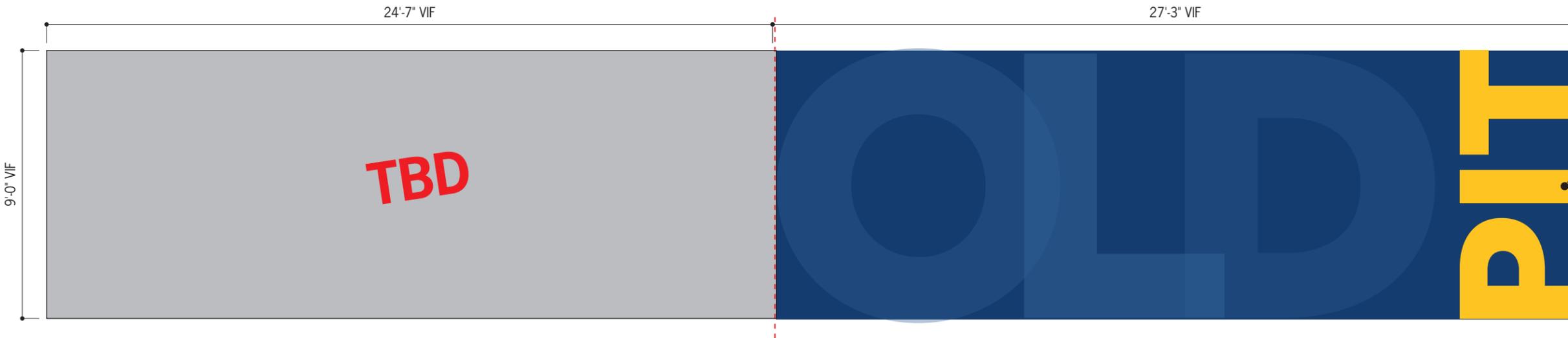
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Location 5



Digitally printed vinyl for textured wall with UV matte protective overlamine heat + roller applied to wall surface per manufacturer spec



Digitally printed vinyl for textured wall with UV matte protective overlamine heat + roller applied to wall surface per manufacturer spec

ELEVATION
Scale: 1/4" = 1'-0"



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4000 West Lake Avenue
Glenview, Illinois 60026

Cardosi Kiper Design Group
2437 South Western Avenue
Chicago, Illinois 60608

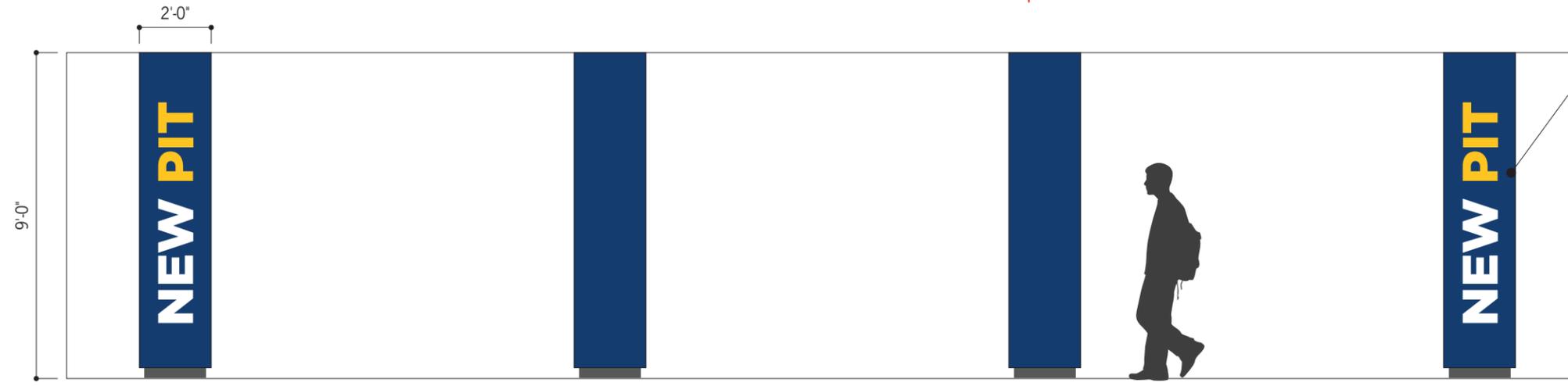
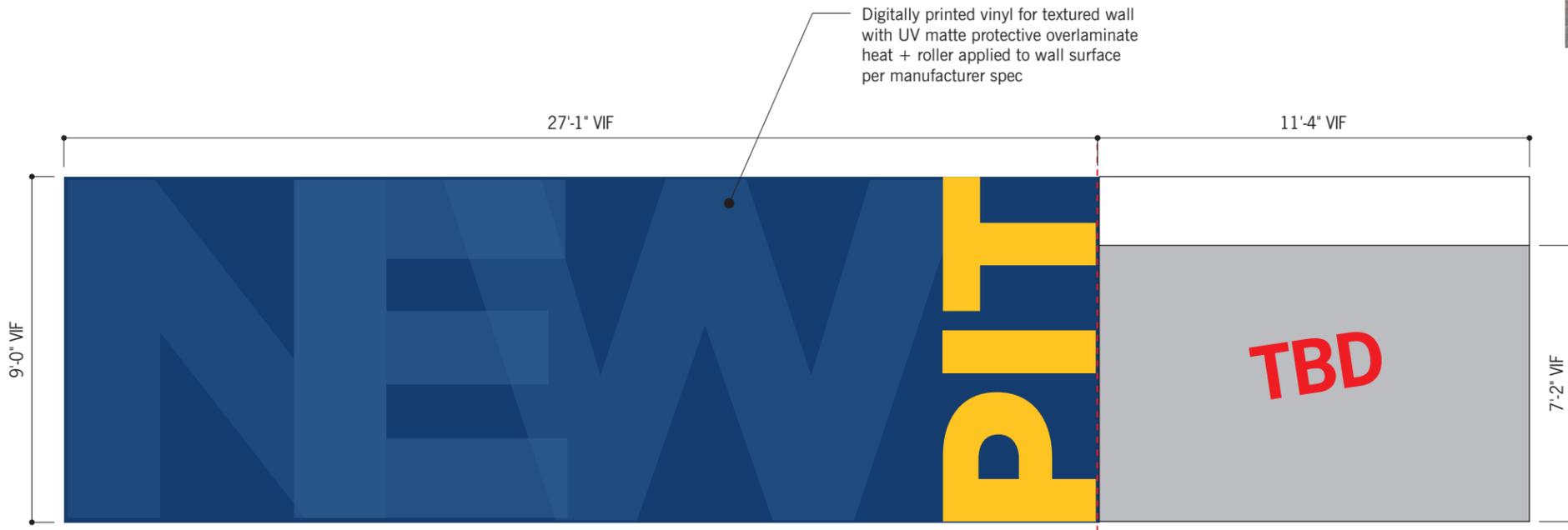
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Location 6



ELEVATION
Scale: 1/4" = 1'-0"



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Specifications

SIGNAGE SPECIFICATIONS

SECTION 10 14 23 - PANEL SIGNAGE

GLENBROOK SOUTH

INTERIOR & EXTERIOR SIGNAGE
WAYFINDING SIGNAGE & GRAPHICS

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SIGNAGE SPECIFICATIONS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specifications Sections, apply to this Section.

1.2 SYSTEM DESCRIPTION SUMMARY

- A. Section Includes:
 - 1. Panel Signs
 - 2. Wayfinding Signs
 - 3. Identification Signs
 - 4. Regulatory Signs
 - 5. Dimensional Letter Signs
 - 6. Custom Theming Graphic Applications

1.3 ALLOWANCES

- A. Allowances for signage are specified in Section 01 21 00 "Allowances".

1.4 DEFINITIONS

- A. Accessible: In accordance with the accessibility standard.
- B. Illuminated: Illuminated by lighting source integrally constructed as part of the sign unit.
- C. Sign Contractor: Term used for agent responsible for fabrication, installation, management and coordination of executing work within the documents. and related drawings describe requirements pertaining to signs and graphics, and are hereafter referred to as "Signage".
- D. Owner: All reference herein is defined as "Owner" listed in Project Information.
- E. Administrator: All reference herein is defined as "Administrator" listed in Project Information.
- F. Signage Consultant: All reference herein is defined as "Signage Consultant" listed in Project Information.
- G. Surface: Any horizontal or vertical plane capable of receiving construction activities or finishes, such as walls, ceilings, floors, and sign faces.
- H. Substrate: A substance or layer that underlie something, or on which some process occurs.
- I. V.I.F.: Verify in Field

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- J. T.B.D.: To Be Determined
- K. A.F.F.: Above Finished Floor
- L. C.L.: Center Line
- M. O.C.: On Center
- N. O.A.D.: Overall Dimension

- 1.5 COORDINATION
 - A. Furnish templates for placement of sign-anchorage devices embedded in permanent construction by other installers.
 - B. Furnish templates for placement of electrical service embedded in permanent construction by other installers.
 - C. Furnish templates for field verification and placement of dimensional lettering prior to installation by Sign Contractor.
 - D. Scheduling: Within 7 business days of being awarded the contract, the Sign Contractor shall prepare and present to the General Contractor / Owner/ Sign Consultant a project scheduled that outlines all submittals, reviews, fabrication, and installation.
 - E. The Sign Contractor is responsible for coordinating the schedule of all required work with the General Contractor and for scheduling regular teleconferences / meetings with the Owner / General Contractor / Signage Consultant. The Sign Contractor shall supply an 1) an agenda of outstanding issues and 2) a current schedule update one day in advance of the conference call /meeting.

- 1.6 ACTION SUBMITTALS
 - A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes. Include manufacturer's written instructions for maintaining and cleaning sign surfaces.
 - B. Shop Drawings:
 - 1. Fabricate only from reviewed and approved Shop Drawings supplied in electronic PDF format. Prior to submission, verify submittal and re-submittal formats, quantities, and procedures with the Owner and Signage Consultant. Shop Drawing submittals will be returned appropriately stamped. Shop Drawings will be checked only for conformance with the design intent of the project. Approval of the Shop Drawings shall not be construed as permitting any departure from the Contract requirements, as relieving the Contractor of the responsibility for any error in details, dimensions or otherwise, as departure from additional details, bulletins or instructions previously furnished by the

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- Owner, unless same has been specifically approved in writing. Also, Shop Drawing approval shall not relieve the Contractor from responsibility for any errors, which may exist in the item, submitted. If the submitted Shop Drawings show variations from the Contract requirements, make specific reference to such variations on the Drawings and in the letter of transmittal with request for approval. All shop drawings shall indicate each sign type construction and installation condition and shall reflect all dimensions from the Sign Contractor's on site field verification. Any substitutions and modifications shall be made only when accepted in writing by the Owner.
- 2. Show the sign face layouts for all sign types and sign locations. Camera-ready art for symbols and logos to be Macintosh based digital files provided on CD by Signage Consultant. Sign face layouts are to be in scale. All sign face layouts are to show actual typographic and symbol layout in solid black graphics on white background with the perimeter of the sign face indicated. Font names and color breaks are to be indicated. Layouts will be reviewed for content, accuracy of alignments, typeface, type weight, letter spacing, word spacing, and symbol quality, and quality of reproduction. Layouts are to be submitted by sign type and in sequential sign location order. All work will be expected to conform to the quality of letterform, spacing and acuity of the samples. The Sign Contractor is responsible for purchasing all required fonts.
 - 3. If additional review of the Shop Drawings is required after two (2) submittals and two re-submittals, the Owner is to be compensated for any fees or charges for time required to complete subsequent reviews required for acceptance of the Shop Drawings.
 - 4. Reproduction of any portion of the Signage Consultant Construction Documents for use as submittals or Shop Drawings is unacceptable. Such submittals will be returned un-reviewed.
 - 5. Review and approval of all signage product data, color/material samples, sign face layouts for all sign types, and shop drawings is required prior to construction.
- C. Samples:
- 1. Submit samples of all materials, alphabets, symbols, colors, finishes, fixtures, fittings, extrusions and hardware as directed by the Owner and Signage Consultant. Color match samples to be provided for each color specified using each graphic technique. Provide color proofs for all digital outputs. The Owner will review the samples and submittals for conformance with the design intent of the project.
 - 2. The Sign Contractor shall be responsible for the timely delivery of the samples and submittals in good condition, freight prepaid. Submit 5 sets of 6" x 6" samples of the following list, upon approval 1 set shall be return to the Sign Contractor as the final approved control set that established the standards for quality assurance.
 - a. Each type of exposed metal used with specified finish
 - b. Each type of plastic used with specified finish
 - c. Each type of adhesive vinyl film in each specified color, include fonts and symbols
 - d. Each type of digital inserts for signs and mapping artwork
 - e. All branding artwork
 - f. Each type of exposed visible hardware
 - g. Digital prints of all symbols/glyphs and icons
 - 3. All items to be submitted together at one time for comparison to each other.

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- D. Prototype Signs:
1. After shop drawing approvals and prior to commencing fabrication of the final signs, the Sign Contractor shall provide one full size color digital sign face for each sign type for review at the site.
 2. After shop drawing approvals and prior to commencing fabrication of the final signs, the Sign Contractor shall fabricate and install one prototype sign type for approval of fabrication technique and quality. Prototypes that are approved may be used as a final sign.
- Interior:
- a. W1.1 - Primary Overhead Directional
 - b. W2.4 - Department ID Overhead
 - c. W2.3 - Overhead Flag Mounted ID
 - d. W2.6 - Regulatory Flag
 - e. W3.1 - Primary Wall Directional with Map
 - f. I1.1 - Elevator Directory
 - g. I2.1 - Stair ID
 - h. L1.1 - Primary Letter
 - i. D1 - Department ID
 - j. D2 - Classroom ID
 - k. D5 - Restroom ID
 - l. D8 - Door Tag
- Exterior:
- m. L5.1 - Illuminated Entry Letters (Sample Letter)
 - n. I5.1 - Door ID
- Theming Graphics:
- o. Location 1 - Banner
 - p. Vinyl Wallcovering
 - q. Translucent Vinyl on Glass
3. All items to be submitted together at one time for comparison to each other.
- E. Product / Catalog Data:
Sign Contractor to submit all products or catalog data in electronic format (PDF). Submit only pages pertinent to products used and clearly mark pertinent materials. Mark any data to identify the sign types referenced. Show any required dimensions and or clearances.
- F. Submittal Review:
1. Submittal review for shop drawings, samples and prototypes by the Signage Consultant/Owner will be returned to the Sign Contractor within a set period determined at fabrication kick-off between Owner, Signage Consultant and Sign Contractor. The Signage Consultant/Owner review does not relieve the Sign Contractor

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- of the responsibility to complete all work in accordance with the Design Development Documents.
- G. Message Listings shall be provided for markup and final sign-off by Owner and Signage Consultant prior to fabrication. Copy is to be based on Signage Consultant's Message Schedule and display typestyles, graphic elements including raised characters and Braille for each sign location at least half-size. The Sign Contractor is responsible for maintaining the master message schedule including all message changes through the shop drawing review process.
- H. Any work undertaken prior to receipt of written acceptance of the samples and submittals, shall, based upon the acceptance or rejection of the samples and submittals, be corrected at the Contractor's expense. All approvals will be in writing. All materials furnished for the project must be as represented by the approved samples and submittals.
- I. The Sign Contractor is responsible for accurately translating the Adobe Illustrator digital files supplied by the Sign Consultant for use in the completion of all shop drawing submittals. The Sign Contractor is responsible for the preparation of all full size final art required for fabrication including but not limited to all symbols, glyphs, icons, type, arrows, photographs as well as touch up required for enlargement. Owner/Sign Consultant reserves the right to reject artwork that fails to meet the standards established in the approved prototypes.
- J. Limitations of Substitutions:
1. Sign Contractor's requested substitutions for materials, products or components will only be considered for acceptance if the following conditions are met:
 - a. Documented Delivery Problem: Written documentation of a delivery problem that conflicts with the project schedule for fabrication/installation. Delivery problems due to Sign Contractors failure to place orders according to manufactures required lead times will not be considered.
 - b. Documented Equal or Superior Product: Sign Contractor shall provide documentation to support substitution claim, including all data performance specs, testing and warranties.
 - c. Documented Equal with Cost Savings: Sign Contractor shall provide all information in item b, with documentation on cost savings.
 - d. Sign Contractor requests for product substitution will not be considered if there has been a delay in executing subcontract labor agreements.
 2. In the event that a substitution requested during the bid period is approved, the owner will distribute the substitution to the other Bidders but shall not distribute cost savings information.
 3. Substitutions resulting from when direct request by subcontractor or supplier will NOT be considered.
 4. Substitutions will not be considered when indicated on a shop drawing or product data submittal without the prior approval of the Owner/Signage Consultant.
 5. Substitutions requested by the Sign Contractor that require additional studies, submittals or engineering shall be paid by the Sign Contractor. Sign Contractor shall supply in writing that substitutions are approved for use by Glenbrook South. Any fees

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incur by Architect and Sign Consultant for review of submittals shall be paid by Sign Contractor at no expense to the Owner.

6. Substitute products shall NOT be order or installed with out written acceptance from the Owner.

- L. Requests for Substitutions:
1. Sign Contractor shall state the reason for Request for Substitution.
 2. Sign Contractor has investigated and shall provide all product data, specifications and testing and actual product sample to ensure the proposed substitute is equal or superior to the specified product.
 3. Sign Contractor will extend same warranties for substitutions.
 4. Sign Contractor will coordinate the installation of the accepted substitution and, coordinate all changes affected by the substitution.

1.7 INFORMATION SUBMITTALS

- A. Per Bid Instructions, Sign Contractor must list all subcontractors, and work being contracted for as attachment to costing sheet. Sub contractors cannot be changed without pre-approval by owner. It is preferred that a minimum of 50% of the work shall be performed by the Contractor's own forces.
- B. Per Bid Instructions, Sign Contractor must be a firm with at least ten years of successful experience with projects of similar scope. Upon request, the Sign Contractor should provide references, including contact names and telephone numbers, for past projects of similar complexity and scope. Contractor shall be a member of a recognized professional organization including, but not limited to, SEG D or NESA.

1.8 CLOSEOUT SUBMITTALS

- A. Provide "As-built" drawings for all sign types that reflect the final construction and approved colors and materials.
- B. Provide "As-built" message schedule to reflect all final approved messages as a .PDF document. The Contractor shall be responsible for maintaining correct message order. Correct message order to be shown on the Shop Drawings.
- C. Provide a Maintenance Manual with written maintenance and safety inspection instructions to the Owner outlining proper maintenance procedures for all sign types installed under this Contract. A scheduled maintenance program should include regular inspection of the sign structures for safety defects.
1. Provide Manual in a 3 ring binder format with 8 ½ x11' or folded 11"x17" sheets that are tabbed and labelled with all "As-built" drawings.
 2. Provide electronic files of all shop drawing, sign layouts, sign location plans, message schedule, product data sheets, parts lists, warranties, and all other information described in this specifications.

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3. Provide specific manufactures' warranty list with date warranty begins and date of expiration with all contact information including name address and telephone number.
4. Provide name, addresses and phone number of contact for Sign Contractor and Installer.
5. Provide a listing of all manufactures paint colors with batch numbers and formulation codes for all paints and coating including contact for paint contractor.
6. Provide Manufactures recommendations and requirements for maintenance and cleaning, including a comprehensive listing of cleaning solutions NOT to use to prevent any damage to sign that would cause discoloration, clouding of material, cracking and/or crazing.

- D. Sign Contractor to provide to Owner in manufacturer's original packaging and store at the project site where directed the following:
1. One (1/2) gallon of touch up paint for each of the colors specified.
 2. Provide a listing of extra stock or parts furnished as part of the contract.

1.9 QUALITY ASSURANCE

- A. All work shall comply with the highest relevant industry and trade standards as indicated in the product sections of this specification and ensure that the materials and equipment shall be new and the latest design.
- B. This is a Union project. All work onsite shall be done by skilled Union Labor, especially trained in this type of work.
- C. Per Bid Instructions, submit adequate evidence to the Owner prior to the awarding of the Contract that the items to be furnished will conform completely to the Contract Documents.
1. Sign Fabricator shall submit written documentation that all braille shown in the message layouts has been reviewed and approved by the American Foundation for the Blind and is correct.
- D. Sign Contractor shall comply with all LEED design construction requirements as defined by the Owner / Architect and General Contractor during all phases of on-site work, including but not limited too, use of low VOC materials, construction waste management and construction site air quality.

1.10 FIELD CONDITIONS

- A. Before sign components are delivered to the site, the Sign Contractor to examine the locations in which the signs are to be erected, and report in writing any conditions, which will have an effect on the appearance or design intent of the sign, or prevent proper execution of the work or endanger its permanency. The erection of the sign shall not proceed until such conditions are resolved, corrected or adjusted and Sign Contractor receives written notice.

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- B. Sign Contractor to obtain measurements at the site and not from the Drawings for correct lengths of sign supports and other items required to be accurately fitted. Design (subject to review by the Owner), engineer, fabricate and install sign supports and attachments. The Sign Contractor will be responsible for the engineering, accuracy of measurements, and the precise fitting and assembly of the finished products. Written dimensions on Drawings shall have precedence over scaled dimensions. Modifications to written dimensions shall be made only when accepted in writing by the Owner.

1.11 WARRANTY

- A. Sign Contractor to warrant to the Owner in writing that the materials and equipment furnished under the Contract will be of good quality and new unless otherwise required or permitted in writing by the Owner, that the work will conform with the requirements of the Design Development Documents and the work will be free of defects not inherent in the quality required or permitted in writing by the Owner. Work not conforming to these requirements, including unauthorized substitutions, may be considered defective. If required by the Owner, furnish satisfactory evidence as to the kind and quality of materials and equipment.
- B. If, within two (2) years after final acceptance of the work, any of the work is found to be defective or not in accordance with the requirements of the Design Development Documents, the work shall be corrected promptly after receipt of written notice from the Owner to do so, unless the Contractor has previously received written acceptance of such condition. Correction of work to be completed at no additional cost to the Owner. This obligation shall survive termination of the Contract. All work to be done at a time convenient to the Owner.
- C. Sign Contractor shall provide a warranty for repair or replacement due to faulty materials, workmanship and design for a minimum from the date of substantial completion for:
 - 1. Vinyl die-cut letters shall be warranted for 5 years against delamination from substrate.
 - 2. Paint finishes shall be warranted for 7 years from chalking and fading.
- D. Warrant to the Owner in writing that the acrylic polyurethane finishes furnished under the Contract will be of good quality, free of defects in appearance or application, will not develop excessive fading or excessive non uniformity of color, will not crack, craze, peel, or otherwise fail as a result of defects in materials or workmanship for a period of five (5) years beginning upon final acceptance by the Owner.
- E. Sheeting Replacement Obligation
 - 1. Where it can be shown that signs with sheeting, supplied and used according to the sheeting manufacturer's recommendations, have not met the performance requirements stated in this Specification, the Contractor shall cover restoration costs as follows for sheeting's shown to be unsatisfactory:
 - a. For ten (10) years after date of installation, the Contractor will replace the sheeting required to restore the sign surface to its original effectiveness. In addition, for

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seven (7) years after date of installation, the Contractor will cover the cost of restoring the sign surface to its original effectiveness at no cost to the Owner for materials and labor.

- F. Fastening devices and adhesives should be tamper-proof, non-corrosive and warranted as to permanency of performance.
- G. Failure includes: but not limited to: fading, cracking, crazing, warping, bowing, oil-canning, peeling, oxidizing, delaminating, rusting, corroding, improper functioning of electrical devices, loose welds, joints and panels and structural failure because of faulty materials and or workmanship.
- H. Failures during the warranty period shall be repaired or replaced to the satisfaction of the owner.
- I. Products corrected under the warranty shall have a warranty extension of a minimum of one year from the date of correction in addition to the two year warranty.
- J. Warranties shall commence on the date of Substantial Completion, as determined at fabrication kick-off between Owner, Signage Consultant and Sign Contractor.

PART 2 – PRODUCTS

2.1 GENERAL SIGN CONSTRUCTION

- A. Sign materials, design, sizes and thickness shall be as shown on Drawings and herein specified. Methods of fabrication, assembly and erection, however, unless otherwise specifically stated, shall be at the discretion of the Sign Contractor, whose responsibility it shall be to guarantee satisfactory performance as herein specified.
- B. Sign components, letters, symbols, and logos shall be constructed to present a neat, clean appearance. Edges and corners shall be true and free of saw marks or other defects. All external surfaces of sign components, faces, structural brackets, elements, and pendants to be finished to match colors specified. Owner/Sign Consultant reserves the right to reject any signs that fails to meet the standards established in the approved prototypes.
- C. Sign Contractor to provide interior sign assemblies. Contractor to furnish to the Owner engineering calculations to show that maximum stresses and deflections of signage, and signage support system, do not exceed specified performance requirements under full design loading.
- D. Provide concealed, tamper resistant fasteners and hold open devices (where required) adequate for safety and ease of maintenance.

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- E. Anchor bolt sizes and types should conform to the Shop Drawings prepared and stamped by the Contractor's licensed professional structural engineer (where required). All bolts should be properly tightened and equipped with nut-locking devices when structures are erected.
- F. Insofar as practicable, fitting and assembly of the work shall be done in the shop. Work that cannot be permanently shop-assembled shall be completely assembled, marked, and disassembled before shipment, to insure proper assembly in the field. Unless otherwise noted, field joints in the face of signs will not be allowed. Contractor to coordinate sizes of finished assemblies with access limitations to final locations.
- G. Steel and aluminum shall be well formed to shape and size. Fabrication shall leave clean, true lines and surfaces. Carefully match exposed work to produce continuity of line and design. Joints, unless otherwise shown or specified, shall be accurately fitted and rigidly secured with hairline contact. Structural details are schematic and the Contractor shall be responsible for thickness of metal and details of assembly and support to give adequate strength and stiffness.
- H. Welding shall be in accordance with appropriate recommendations of American Welding Society, and shall be done with electrodes and methods recommended by manufacturers of alloys being welded. Type, size and spacing of welds shall be as shown on Shop Drawings. Welds behind finished surfaces shall be so done as to minimize distortion and discoloration on finished side. Weld spatter and welding oxides on finished surfaces shall be removed by descaling or grinding. Unless otherwise shown or specified, all weld beads on exposed polished surfaces shall be ground and polished to match and blend with finish on adjacent parent metal. Remove paint from existing steel members at contact areas and on surfaces with 2 inches of field welds, in order to attach signage steel supports. At attachments to exposed steel, grind exposed field welded joints smooth and restore to match factory finishes.
- I. Welding shall be executed by experienced, certified operators with proper equipment and training and who have been qualified previously by tests as prescribed in the American Welding Society's "Standard Qualification Procedure" to perform the work required.
- J. Interior ADA Compliant Signs:
 - 1. Comply with American Disabilities Act, ADA Standards for Accessible Design as revised in ADA 2012 regulations and requirements indicated for copy height, letter stroke, materials, thickness, finish colors, as noted in the Design Documents.
 - 2. Sign face to be custom finish acrylic panel. Copy and Braille to be relieved 1/32inch minimum from plaque first surface by manufacturer's applique process. Precisely formed, uniformly indicated for size, style, spacing, content, position and color. Sign copy and Braille to comply with relevant ADA regulations and the requirements indicated for size, style, spacing, content, position and color. Sign Contractor to translate sign copy to appear in ADA compliant Braille.
- K. Source Quality Control:
 - 1. Obtain primary materials from a single manufacturer.

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- 2. Provide secondary materials only as recommended by manufacturer of primary materials.
- 3. Do not change source or brands of materials during fabrication.
- L. Reference Standard: Where more stringent requirements than those described in the Drawings and/or specifications are set forth under codes, law and/or ordinances of Federal, State and local governing bodies having jurisdiction, Sign Contractor shall notify the Owner in writing before proceeding with work. Work is subject to the applicable portions of the following standards:
 - 1. All work shall comply with the State of Indiana and the University of Notre Dame codes and ordinances.
 - 2. AWS D1.1 "Structural Welding Code", American Welding Society
 - 3. SSPC SP-6 "Surface Preparation Specification No. 6, Commercial Blast Cleaning, Steel Structures Painting Council
 - 4. SSPC PA-1 "Painting Application Specifications", Steel Structure Painting Council
 - 5. "Aluminium Finishes for Signage Consultanture", Aluminium Association
 - 6. "Code of Standard Practice of Steel Buildings and Bridges", AISC
 - 7. "Specifications for Design, Fabrication and Erection of Structural Steel Buildings", AISC
 - 8. American Society for Testing and Materials (ASTM):
 - a. ASTM 46 - "General Requirements for Delivery of Rolled Steel, Shapes, Sheet Piling and Bars for Structural Use"
 - b. ASTM B209 - "Aluminium and Aluminium Alloy Sheet Plate"
 - c. ASTM B221 - "Aluminum and Aluminum Alloy Wire, Rod, Bar, Shapes and Tube; Extended"
 - d. ASTM B241 - "Aluminum and Aluminum Alloy Tube; Extended, Seamless"
 - e. ASTM E1164 - Standard Practice for Obtaining Spectrophotometric Data for Object Color Evaluation
 - f. ASTM E308 - Standard Method for Computing the Colors of Objects by Using the CIE System
 - g. ASTM E284 - Standard Definition of Terms Relating to Appearance of Materials
 - h. ASTM D4956 - Standard Specification for Retro reflective Sheeting for Traffic Control
 - i. ANSI/ASTM E329 - Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction
 - 9. "Specifications for Assembly of Structural Joints Using High Strength Steel Bolts" as approved by the Research Council on Riveted and Bolted Structural Joints of the Engineering Foundation
 - 10. "Handbook on Bolt, Nut and Rivet Standards", Industrial Fasteners Institute
 - 11. "Steel Structures Painting Manual, Volume 2, Systems and Specifications" SSPC
 - 12. All signage to comply with applicable sections of the Americans with Disabilities Act (ADA) and the Illinois Accessibility Standards (IAC).
 - 13. Contractor to comply with all applicable regulations of the Occupational Safety and Health Administration (OSHA).
 - 14. AASHTO M68 - "Standard Specification for Retro reflective Sheeting for Traffic Control"

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- M. Typography: Letter weight to match Design Intent Drawing specifications. Sign face layouts shown on the Drawings are for reference only. Shop Drawings to show letterforms with inter-letter and inter-word spacing per the standards for the font used. Legends shall include letters, numbers, arrows, symbols, glyphs, icons, logos, graphics, borders, characters, typography, and other applications shown for sign panels. Enlargement or reduction of artwork applications shall be done photographically. Hand-cut masks or templates will not be accepted. Contractor to submit samples of all alphabets, symbols, arrows, and logos for review and approval prior to fabrication. Font name(s) and color breaks/application to be indicated on the Shop Drawings.
- N. Letterforms: shall be executed in such a manner that all edges and corners of letterforms and symbols are true, clean, and photographically precise and must accurately reproduce the letterforms.
- O. Symbols: Symbols, glyphs, icons and logos to match standards as shown. Original art for all symbols/glyphs/icons, and logos to be supplied by Signage Consultant. Symbols and logos shall be executed in such a manner that all edges and corners are true, clean, and photographically precise and must accurately reproduce the symbol or logo.

2.2 PAINTING AND FINISHING

- A. Paint to be applied per manufacturer's instructions. Protective coating primer system to be shop applied. Steel material shall be shop coated with 1 coat of primer. Surfaces that will be inaccessible for painting after assembly or installation shall be given 2 shop coats of primer. Provisions should be made for proper handling at all stages of the painting shipping storing and erection for protection of primed surfaces from damage or soiling.
- B. Shop painting shall not be performed on the following surfaces: (Protect these surfaces with a rust inhibiting coating readily removable prior to erection.)
 - 1. On contact surfaces within two inches of field welds.
 - 2. On contact surfaces.
 - 3. On milled bearing surfaces.
- C. Colors listed for application using paint/coating specified. Color numbers refer to the Drawings. Submit appropriate samples for review and approval. Owner to have sole authority to determine whether match is accurate.
- D. Aluminum and steel shall be prepared by cleaning in accordance with SSPC SP-1 and shop painted with primer and finish coats using paint material specified for sign frames and structures.
- E. After being ground and polished, or where subject to severe forming operations, stainless steel surfaces shall be cleaned of all extraneous material, thoroughly rinsed with clean water and dried. Lubricants used in fabrication shall be removed before work leaves the shop.

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- F. Field touch up primer after erection (all interior surfaces including bolted connections nuts, and washers, etc.) one coat.
- G. Protection of metals against galvanic action shall be provided wherever dissimilar metals are in contact with galvanized steel. All metals except galvanized steel and stainless steel, which will be in contact with concrete, mortar, plaster, or other masonry, shall also be protected. Protection shall consist of providing stainless steel fasteners and, if concealed, of painting the contact surfaces with a heavy brush coat of bituminous paint.
- H. Products:
 - 1. Aliphatic Polyurethane Enamel: Low VOC M.A.P. High Solids Acrylic Polyurethane System, Matthews Paint Co, Pleasant Prairie, WI 53158. (1-800-323-6593) Manufacturer's specification MPC108.
 - 2. Clear topcoat over all painted surfaces: Matthews VOC clears topcoat products, gloss level to be determined by application.
 - 3. Gloss level of finish shall be as indicated on drawings.
- I. Application and Finish:

Coatings shall be applied by an applicator having facilities, equipment and experience required to apply the finish to manufacturer specifications. All substrates shall be cleaned of any foreign substance such as oil, grease, dirt, etc.

 - 1. Aluminum components to receive painted finish: All faces shall be etched to give an even satin finish and remove oxidation, then conversion coated to improve paint adhesion and inhibit corrosion. Surface shall be belt-sanded for a smooth finish, edges filed and ground then immersed in hot alkaline cleaner to remove contamination.
 - 2. Provide manufacturer's Recommended System as appropriate for specific substrates and applications.
 - 3. An acid-wash prime coat shall be applied per manufacturer's specifications when using raw metal as a substrate.
 - 4. A primer / filler seal coat shall be properly applied to all substrates per manufacturer's specifications.
 - 5. Primer / filler coat shall be sanded smooth before top coating and coated with a minimum of two applications of acrylic polyurethane in colors as indicated on the drawings. Top coating shall be applied per manufacturer's recommendations to a minimum total dry film thickness of 2.0 mil.
 - 6. All painting shall be free of oxidation, cracking, chipping, or any defect. Sign Contractor shall be required to touch-up or otherwise repair any damage to painted surfaces to the satisfaction of the Designer or Owner.
 - 7. Sign panels shall be predrilled in proper locations before any priming, painting or coating processes.
 - 8. Adhesion: No removal of any finish after 1/16" cross-hatching to base metal, impacting to the point of metal rupture, and subjecting to application and quick removal of cellophane tape.
- J. Pigmented (Opaque) Finishes:

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Completely cover to provide an opaque, smooth surface of uniform color, appearance, and cover. Cloudiness, spotting, holidays, laps, brush marks, orange peel, runs sags, or other surface imperfections will not be acceptable

2.3 SILKSCREENING

- A. Provide highly quality fine mesh photographic screens. Hand cut screens will not be accepted. Screens shall be fine mesh fabric as required.
- B. Silkscreen inks to be compatible with specified substrates and finishes. Do not blend materials from different manufacturers.
 - 1. Acceptable Silkscreen Ink Manufacturers:
 - a. Naz Dar
 - b. Akzo Coatings
 - c. Spraylay Corp.
 - 2. Inks for use with 3M Sheeting
 - a. 3M 880 Series Ink and thinner for use with Series 3990 and 3870 3M Sheeting
 - b. 3M 3900, 9700 UV Series ink for Scotch Cal 7725 and 3650

2.4 DIGITAL PRINTING

- A. Digital Flatbed
 - 1. Acuity Advanced X2.
 - 2. Rigid print format: 98.4" wide x 120" length edge to edge printing.
 - 3. Max. substrate thickness: 1.89"
 - 4. Print technology: Proprietary Piezoelectric UV inkjet head using variable-dot grayscale imaging technology; 4 color (CMYK) with two print heads per color.
 - 5. Resolution: Variable droplet sizes from 6 to 30 picoliters.
 - 6. Rip: ColorGATE Production Server (Fujifilm Edition), Version 5.3 or later. ONYX ProductionHouse Workflow Software, Version 7.0 or greater.
 - 7. Sericol Uvijet UV Inks: Uvijet KI Ink range is a high quality UV curable inkjet system, for Piezo Drop-on-Demand print heads, specifically developed for use with the Acuity Series of printers from Fujifilm. (CMYK + W) KI-215/2L Cyan, KI-052/2L Yellow, KI-004/2L Black, KI-867/2L Magenta, KI-021/1L White.

2.5 METAL MATERIALS

- A. Aluminum Extrusions:
 - 1. Conform to ASTM B- 221, Alloy 6063-T6. Shapes, sizes and weights of members shall be a required for structural stability. All connections of aluminum members shall be heli-arc welded, continuous fillets, and ground smooth on all exposed faces, unless specifically detailed otherwise.
 - 2. Finishes as shown on drawings.

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- B. Aluminum Finishes:
 - 1. Finishes shall be consistent in color and surface appearance throughout the project.
 - 2. Matte finish - clear anodized: AA M12 C22 A41. Except as otherwise indicated or directed by Designer, use this type finish for all exposed aluminum.
 - 3. Matte finish - color anodized: AA M12 C22 A42.
 - 4. Bright finish - clear anodized: AA M21 C31 A41.
- C. Aluminum Sheet and Plate:
 - 1. Type 5052-H-32 alloy aluminum, thickness as indicated on drawings.
- D. Stainless Steel:
 - 1. Type 302 or 304, to meet ASTM A167.
 - 2. Exposed surfaces shall be No. 4 finish, unless otherwise indicated.
 - 3. Unexposed surfaces shall be mill finish.
- E. Stainless Steel Tubing:
 - 1. Type 300 Series, to meet ASTM A269 or ASTM A312.
 - 2. Exposed surfaces shall be No. 4 finish unless otherwise indicated.
 - 3. Unexposed surfaces shall be mill finish.
- F. Metal Thickness:

Provide metal thickness indicated on drawings. When metal thickness is not indicated on drawings, provide thickness most appropriate for the fabrication condition to prevent warping or distortion.

 - 1. For sheet steel not indicated, use not less than 20 gauge.
 - 2. For non-ferrous metal not indicated, use not less than 0.063" thickness.
- G. Corrosion Protection:

Coat concealed surfaces, which will be in contact with concrete, stone, masonry, wood, or dissimilar metals, in exterior work, with a heavy or double coat of bituminous paint.

2.6 PLASTIC MATERIALS

- A. Acrylic:

Provide cast (not extruded) methyl methacrylate Monomer plastic sheet with a minimum flexural strength of 16,000 psi, when tested in accordance with ATSM D790, minimum allowable continuous service temperature of 180 degrees F.

 - 1. Provide solid sheet, laminated sheet, or cast acrylic in size, thickness, clarity, opacity, texture, and color required for work or specified in Contract Documents.
 - 2. Edges shall be free of saw marks, chips, and to be square to face of material. All edges are to be smooth unless otherwise specified.
 - 3. Transparent Sheet: Where indicated as "Clear" provide colorless sheet with light transmittance of 92%, when tested in accordance with ASTM D 1003, in a non-glare finish unless otherwise indicated. The non-glare finish should not compromise the clarity or resolution of the displayed image.
 - 4. White Translucent Sheet: Where indicated as "White" provide white translucent sheet

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- of density required to provide uniform brightness and minimum halation.
- 5. Colored Translucent Sheet: Where indicated as "Colored", provide white translucent sheet of density required to provide uniform brightness and minimum halation.
- 6. Frosted Acrylic: Where indicated as "Frosted" provide clear acrylic sheet with matte finish: Rohm & Haas # P-95 or approved equal.
- 7. Cement for acrylic plastic: No. 4 cement by Industrial Polychemical Co.

B. Suppliers:

- 1. Plexiglas: Rohm and Haas Company
Independence Mall West, Philadelphia, PA 19105
215-592-3000, 800-523-7500
- 1. Ram Acrylic: Ram Product
111 North Centerville Road, PO Box 340, Sturgis, MI 49091
800-253-2065
- 3. Lucite Cast Acrylic: ICI Acrylics, Inc. 3411 Silverside Road, McKean Building, PO Box 15391, Wilmington DE 19850800-4- LUCITE

C. Polycarbonate:

- Tuffak by Rohm and Haas, or Lexan by General Electric.
- 1. Provide with scratch and ultra-violet coating
- 2. Transparent Sheet: Where indicated as "Clear" provide colorless sheet with light transmittance of 92%, when tested in accordance with ASTM D 1003, in a non-glare finish unless otherwise indicated. The non-glare finish should not compromise the clarity or resolution of the displayed image.

2.7 ADHESIVE VINYL FILM

A. Computer-generated Vinyl Graphics:

- 1. Non-reflective: Pressure-sensitive adhesive type, .0035 inch thickness minimum, .006 inch thickness maximum, 3M "Scotch Cal" series OR APPROVED EQUAL.
- 2. Reflective: Pressure sensitive adhesive type, .0065 inch minimum, .0075 inch maximum, 3M "Scotch lite" engineer-grade series OR APPROVED EQUAL.
- 3. "Matte Finish" applied to vinyl shall be a Matthews Acrylic Polyurethane clear coat mixture: 80% satin clear 42228-SP, 20% matting clear SOA955-SP.

B. Manufacturer:

- 1. 3M Commercial Graphics Division, 3M Center Building, 220-6W-06St. Paul, MN 55144800-328-3908

C. All inks, paints dyes, and other materials used in the process will be compatible and guaranteed against discolorations, deterioration or delamination.

2.8 ADHESIVES

A. Adhesive Tape:

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3M #4945 VHB double-faced foam tape. Thicknesses and widths of tapes shall be as required to safely secure signs to various wall finishes, but in no case shall be less than 1/16 inch thick and 1/2 inch wide.

B. Liquid Adhesive:

Silicone Silastic 732 RTV adhesive/sealant as manufactured by Dow Corning.

2.9 HARDWARE

- A. All hardware at, on and within signs to be stainless steel unless noted otherwise in manufacturer's documentation for specified product.
- B. Care shall be taken to prevent dis-similar metal connections with appropriate shim/gasketing as required.
- C. Every piece and type of hardware used on the entire project, including all sign mounting hardware, is to be thoroughly documented. Information is to include hardware type, dimension, thread sizes, material, strength rating and identification number. ID number example is McMaster Carr catalogue number, or equal.
- D. Unfinished Threaded Fasteners
 - 1. ASTM A 300 Series Grade A non-magnetic stainless steel.
 - 2. Tamper resistant screws – Stainless steel, tamper resistant drilled spanner drive screws or equal as approved by Owner and Signage Consultant.
- E. Bolts, Nuts, Clips, and Washers: ASTM A 325 or ASTM A 307; galvanized to ASTM A 153 for galvanized components.
- F. Locks: Universal locking mechanism as approved by Signage Consultant (where locking mechanisms are required)
- G. Expansion Anchor Devices: Lead-shield or Toothed-steel, drilled-in expansion bolt anchors.

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Signage Consultant / Owner shall be allowed to observe progress work at the Sign Contractor's location pending notification and coordination of visit. Sign Contractor to coordinate a site visit at substantial completion in order to examine conditions under which the signage is to be installed.
- B. Sign Contractor shall inspect installation locations for conditions that adversely affect installation and shall not proceed with installation until unsatisfactory conditions have been corrected. Notify the Owner in writing of any unsatisfactory conditions.

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- C. Verify that sign-support surfaces are within tolerances to accommodate signs without gaps or irregularities between the backs of signs and support surfaces unless otherwise indicated.
- D. verify that electrical service is correctly sized and located to accommodate signs (where required).
- E. Proceed with installation only after unsatisfactory conditions have been corrected.
- F. Protection: Mask off and protect all finished building surfaces, which may be stained, damaged or adversely affected by installation of the signs.
- G. Clean and prepare all finished surfaces and suitably protect until acceptance by Owner.

3.3 INSTALLATION

- A. Properly and legally remove from the site and dispose of all rubbish and debris resulting from the work.
- B. Obtain all necessary licenses and permits.
- C. Before delivery to the site, each sign shall be tagged or labeled with Sign Contractor's name, sign type, level/floor, and sign location installation number as shown on the Drawings. Labeling shall be both on the sign and the protective covering. Labels on the signs shall be hidden when the sign is installed (unless otherwise specified) or shall be removed without damage to the sign at time of installation.
- D. Sign Contractor to arrange with the Construction Manager to provide adequate, secure, locked storage for signs, which have been delivered to the site but not yet installed. If adequate storage space is not available, the Sign Contractor is to coordinate delivery of the signs to coincide with installation.
- E. Sign Contractor shall provide for on-site project manager to supervise installation crews and will provide daily update on installation progress.
- F. Prior to sign installation, sign contractor shall coordinate x-raying or will utilize pachometer technology to identify locations of the hidden reinforcement in the concrete prior to drilling any hole deeper than 1/2". If the investigation of the concrete identifies existing reinforcement will interfere with the planned mounting location of the signage, the sign contractor shall immediately notify the Construction Manager and is not permitted to relocate any of the signs without written authorization.
- G. Install signs level and plumb.

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- H. Provide for all anchors and fasteners required to secure signs. All anchors/fasteners shall be appropriate for the anchorage condition and be non-corrosive type. Any signs that require cutting building surfaces shall be coordinated with the Owner and General Contractor. Sign Contractor shall be responsible for repairing and patching affective area.
- I. Surfaces under adhesive-applied signs shall be smooth, clean and free of dust, oil, fingerprints and foreign matter. All adhesives required shall be used in accordance with the manufacturers specifications. Signs shall be permanently installed unless otherwise indicated in shop drawings. No adhesives, which will fade, discolor or delaminate as a result of ultraviolet light or heat shall be used.
- J. Installation of temporary signs shall use low tack adhesive to prevent wall damage upon removal.
- K. After installation, clean soiled sign surfaces and installation area. Remove dirt, dust, fingerprints, shavings, adhesives, packing materials, etc.
- L. Where applicable, all attic stock ordered is to be packaged separately and packaged by sign type with installation instructions and all mounting hardware and adhesives for varying field conditions. If not specified for removal from the site and proper disposal by the General Contractor, the Sign Contractor is to arrange with the Owner to provide secure, locked, long term storage for all Attic Stock signs, sign structures or materials taken down, removed or dismantled.

3.4 COMPLETION

- A. The work shall be under the charge and care of the Contractor until final acceptance of the work by the Owner (ie. Substantial Completion), including all Punch List work. The work shall not be considered as completed and accepted until written notice is received from the Owner confirming the completion and acceptance of all work, including Punch List work.
- B. Upon completion and before final acceptance of the work, the Contractor shall provide a complete set of drawings and digital files for all signs and sign locations showing As Built conditions. Drawings and digital files shall be formatted as specified by the Owner. As Built Drawings to include changes between the work as shown in the Contract Documents and Shop Drawings indicating the work as actually installed and any specific information, locations, or dimensions not included in the Contract Documents.
- C. All digital files, silk-screens, patterns, and models are to be preserved and shall become the property of the Owner.
- D. Punch List:
When the Sign Fabricator has completed their own internal review for completion and considers the work to be acceptable to the Owner / Sign Consultant as substantially complete; the Sign Contractor produce a punch list and attach it to a letter requesting an inspection. Upon receipt of the Sign Contractor's Punch list and written request, the Sign

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Consultant/ Owner shall perform a punch list inspection of the work. Additional items may be added to the Sign Contractor's Punch List as a result of this construction. "New Work" items will be addressed as such.

- E. The Sign Contractor shall provide the "As-Built" message Schedule to the Sign Consultant /Owner for the Punch list Document and/or coordinate this work with other locations that call for as-built documentation after Substantial Completion. Upon completion of the Punch List review the sign Consultant shall issue to the Owner and Sign Contractor a listing of what is complete and describing the work that is not acceptable.
- F. All items listed on the Punch list that need to be completed shall be remedied within a 3 week period from the date of the issued Punch list. This is for signs on the base contract and does not pertain to additional signs added as a result of the Punch list walk through.
- G. If the Sign Contractor does not proceed with the correction of work after a reasonable time fixed by written notice from the Owner, the Owner may have the work corrected. The cost for the corrections is to be deducted from the payments due to the Sign Contractor. If payments due the Sign Contractor are not sufficient to cover such amounts, the Sign Contractor shall pay the difference to the Owner. If there are no payments due the Sign Contractor, the Contractor shall pay the entire amount of the cost of the corrections to the Owner.
- H. Sign Contractor to remove from the site and properly dispose of, at his own expense, portions of the work, which are defective, or not in accordance with the requirements of the Contract and are neither corrected by the Sign Contractor nor accepted by the Owner.

END OF SECTION 10 14 23

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Glenbrook South High School - Signage/Wayfinding and Theming Graphics

1/29/21

Interior - Signage/Wayfinding			COSTING						
Sign Type	Pg.	Description	Qty	Product Unit	Install Unit	Total Unit	Ext	Fabricator	Bid Sent
D1	7	Department ID - Changeable w/ Notifier Bar	27	\$0	\$0	\$0	\$0	TBD	TBD
D2	7	Room ID - Changeable w/ Notifier Bar	348	\$0	\$0	\$0	\$0	TBD	TBD
D3	7	Room ID - Changeable	278	\$0	\$0	\$0	\$0	TBD	TBD
D4	7	Conference Room	4	\$0	\$0	\$0	\$0	TBD	TBD
D5	8	Restroom ID - Permanent	53	\$0	\$0	\$0	\$0	TBD	TBD
D5.2	8	Restroom ID - Permanent	0	\$0	\$0	\$0	\$0	TBD	TBD
D6	8	Back of House Room ID - Permanent	141	\$0	\$0	\$0	\$0	TBD	TBD
D8	8	Interior Room Number Tag (located inside all rooms)	851	\$0	\$0	\$0	\$0	TBD	TBD
I1.1	9	Floor Directory Information at Elevators	6	\$0	\$0	\$0	\$0	TBD	TBD
I2.1	10	Stair ID	8	\$0	\$0	\$0	\$0	TBD	TBD
I4.1	9	11" x 17" Changeable Info	50	\$0	\$0	\$0	\$0	TBD	TBD
I4.2	9	8.5" x 11" Changeable Info	50	\$0	\$0	\$0	\$0	TBD	TBD
L1.1	11	Primary Identification Letters	23	\$0	\$0	\$0	\$0	TBD	TBD
L1.2	11	Secondary Identification Letters	0	\$0	\$0	\$0	\$0	TBD	TBD
R1	12	Stair ID - Outside Stairwell	38	\$0	\$0	\$0	\$0	TBD	TBD
R2	12	Stair ID - Inside Stairwell	19	\$0	\$0	\$0	\$0	TBD	TBD
W2	13	Primary Overhead Directional - Ceiling	6	\$0	\$0	\$0	\$0	TBD	TBD
W2.1	13	Primary Overhead Directional - Soffit	167	\$0	\$0	\$0	\$0	TBD	TBD
W2.3	15	Symbols - Flag (Elevator / Restroom)	21	\$0	\$0	\$0	\$0	TBD	TBD
W2.4	14	Overhead ID - Ceiling	6	\$0	\$0	\$0	\$0	TBD	TBD
W2.6	15	Symbols - Flag (AED/Extinguisher)	69	\$0	\$0	\$0	\$0	TBD	TBD
W3.1	16	Primary Directional - Wall	8	\$0	\$0	\$0	\$0	TBD	TBD
W3.2	16	Secondary Directional - Wall	9	\$0	\$0	\$0	\$0	TBD	TBD
Sign Totals			2182	Install:	\$0	Subtotal:	\$0		

Exterior - Signage/Wayfinding			COSTING						
Sign Type	Pg.	Description	Qty	Product Unit	Install Unit	Total Unit	Ext	Fabricator	Bid Sent
L5.1	59	Exterior Entrance Letters - Illuminated	2	\$0	\$0	\$0	\$0	TBD	TBD
L5.2	58	Exterior Entrance Letters - Non-Illuminated	1	\$0	\$0	\$0	\$0	TBD	TBD
I5.1	60	Exterior Door Number	49	\$0	\$0	\$0	\$0	TBD	TBD
Sign Totals			52	Install:	\$0	Subtotal:	\$0		

Theming Graphics			COSTING						
Location	Pg.	Description	Qty	Product Unit	Install Unit	Total Unit	Ext	Fabricator	Bid Sent
Location 1A	68	Athletics	1	\$0	\$0	\$0	\$0	TBD	TBD
Location 1B	69	Athletics	1	\$0	\$0	\$0	\$0	TBD	TBD
Location 1C	70	Athletics	1	\$0	\$0	\$0	\$0	TBD	TBD
Location 1D	71	Athletics	1	\$0	\$0	\$0	\$0	TBD	TBD
Location 2	72	Auditorium	1	\$0	\$0	\$0	\$0	TBD	TBD
Location 3	73	State & Madison	1	\$0	\$0	\$0	\$0	TBD	TBD
Location 4	74	Student Activities Center	1	\$0	\$0	\$0	\$0	TBD	TBD
Location 5	75	Old Pit	1	\$0	\$0	\$0	\$0	TBD	TBD
Location 6	76	New Pit	1	\$0	\$0	\$0	\$0	TBD	TBD
Graphics Totals			9	Install:	\$0	Subtotal:	\$0		

SIGNAGE	Total Costing for Signage Fabrication / Installation	Sub Total:	\$0
PACKAGING / CRATING			\$0
SHIPPING			\$0
TOTALS	Total Costing for Signage & Theming	Grand Total	\$0



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Glenview, Illinois 60026

Cardosi Kiper Design Group
2437 South Western Avenue
Chicago, Illinois 60608

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Glenbrook South High School
Interior Signage & Wayfinding Standards
Phase 4.0 - Construction Documents

02.01.21

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