



Division 08. Openings

08 10 00. Doors and Frames

08 11 00. Metal Doors and Frames

1. All fire rated doors shall be metal.
2. Contractors shall remove all rating labels from doors/frames that are not installed in rated wall assemblies. If the wall is not rated, than the door/frames shall appear as non-rated.
3. All exterior and interior pairs of doors shall have a removable mullion.

08 14 00. Wood Doors

1. Wood doors shall be of standard manufactured size, either 3 feet x 6 feet 8 inches or 3 feet x 7 feet. Doors 3 feet x 6 feet 8 inches are recommended only when matching existing for a remodel or addition.
2. Wood doors shall be of a common species throughout the project.

08 30 00. Specialty Doors and Frames

08 31 00. Access Doors and Panels

1. Campus standard for access control is the Andover Continuum System.
2. Refer to *Division 28 11 05 Electronic Access Control for New Construction* and *Division 08 71 13 Automatic Door Openers* for the typical location of proximity card readers for added convenience and security.
3. Prior to 35 percent review documents, a coordination meeting with the A/E, campus police department, FP&M and Electric Shop shall occur. The UW Electric Shop will design and provide the primary components for the access control system.
4. The contractor shall pull all the cables/wires to the IDF.
5. Physical Plant shall purchase all the net controllers and install in the electrical closets.
6. The contractor shall purchase and install all of the card readers and/or rough-ins for future card readers.

08 32 00. Sliding Glass Doors

Sliding glass doors shall be supported on top and have a floor track.

08 33 00. Coiling Doors and Grilles

08 33 23. Overhead Coiling Doors

It is desired that an airlock be provided between the loading dock (where overhead coiling door is used) and main building.



08 70 00. Hardware

08 71 00. Door Hardware

Prior to the start of hardware installation, contractor shall schedule and conduct pre-installation meeting with hardware supplier, lock, exit device, and door closer manufacturers' representative(s). Installer and related trades shall coordinate materials and techniques, and sequence complex hardware items and systems installation. Proper and correct installation and adjustment of hardware shall be reviewed, and criteria for punch list review shall be established. Coordination meeting shall occur at least one week prior to commencement of hardware installation. Written documentation of date and attendees/participants shall be provided to the architect and owner for record.

08 71 01. Locks

1. All mortise locksets shall be able to be re-handed in the field without cover removal.
2. All locksets shall be provided with a lever as per ADA requirements, mounted at the appropriate height per ADA.
3. All locksets shall be provided with escutcheon trim, not sectional trim, to allow for future flexibility in door or hardware changes.
4. Standard finishes for the campus include US26D (626) and US10 (612). Stainless finish US32D (630) shall be specified for high moisture or caustic areas.
5. All lock cylinders and keying shall be provided by the UW Locksmith shop along with the cost of re-keying. The installation of the lock cylinders shall be the responsibility of the general contractor.
6. Full-length latch guards on all appropriate exterior doors shall be provided. This creates additional safety against prying doors open.
7. Specifications state that the General Contractor shall be responsible for signing out keys and shall be financially responsible if keys are not returned.
8. Electrified locks and exit devices shall be preferred over electric strikes. Electrified locks afford better security than electric strikes and using this type of hardware allows for greater flexibility when making functional changes to openings in the future while avoiding major reworking of the opening.
9. A mortise lock shall be specified where Dead Bolts must be used.

08 71 02. Hinges

1. Standard security hinges shall be used on all exterior doors. Pivot hinges are not acceptable.
2. Hinges shall be on occupied side of doors.
3. Non-removable hinge pins shall be used on doors with hinges on the public side of the door.
4. All restrooms must have door closers with stay-open capabilities.
5. Aluminum doors shall have a continuous hinge. Roton is the campus preferred brand.



6. Heavy duty ball bearing hinges shall be used on openings with high traffic. Ives hinges are preferred.
7. Standard ball bearing hinges shall be used on interior and moderately used, openings. Ives hinges are preferred.
8. Continuous hinge shall be used on exterior openings. Ives hinges are preferred.

08 71 04. Fire Door Operators

Hold-open devices shall be 12 or 24 volt, hard wired. Stanley Door Opener or compatible product is the campus standard.

08 71 13. Automatic Door Operators

1. Operators shall be electro-mechanical hard wired (not wireless). For certain applications where hard wired is not feasible (for example, in glass doors), then wireless shall be acceptable. The campus standard is Stanley Door Operator. Each shall have push-plate and radio receiver.
2. Push plates shall be located per specification below and shall not be placed on a mullion. Bollard mounted buttons needs to be approved by UW Facilities Planning and Management. The operator shall be fitted with a lockout device that allows exterior push plate/radio controls to be turned off, leaving the interior switch mechanism operable. The operator shall be compatible with electronic security devices.
3. Automatic Door Opener Locations: For all new buildings, the accessible main entrance on each grade level shall have at least one door with an automatic door opener. The 36 inch column activator type, such as BEA 36 inch Low Profile Push Plate or Wikk Industries Ingress'r shall be required instead of a traditional pedal button. These 36 inch column push plate shall be installed in line with the door being opened and on the opposite side of the hinge so that the buttons are on the side of the opening door. They shall be 48 inches from any perpendicular obstruction or door frame to allow sufficient clear floor space to open the door. If the traditional 4 inch pedal button is to be used, it shall be approved by UW Facility Planning and Management and installed at 32 inches on center above finish floor (A.F.F).
4. A sign that identifies automatic doors shall include the international accessibility symbol. Standard adhesive backed signs shall be installed on the power assist door surface at 53 inches on center A.F.F., 5 inches from door hinge side. (Note: this placement might be door specific and should be verified by UW FP&M). SEE DIVISION 08 DETAIL 1 AT END OF DIVISION.
5. For existing buildings, the push button for the door opener shall be installed at 32 inches on center A.F.F. If this is not feasible, the location of the push button may be raised, but shall not exceed 38 inches on center A.F.F. Aside from this exception for the height of the opener placement, existing buildings shall follow the guidelines previously described. The campus preferred openers are Stanley Magic Force (for exterior door) and Stanley Magic Access (for interior door). SEE DIVISION 08 DETAIL 2 AT END OF DIVISION.
6. Push Button Heights/Proximity Card Readers and Bollard Locations: If a proximity card reader is needed, it shall be 32 inches on center A.F.F. The card reader needs to be placed in close proximity and in front of the operator button. This will allow the card to be swiped first and then the button can be pushed for accessibility. If the site has a



bollard with both a push button and a proximity card reader, the mounting height shall be 32 inches on center A.F.F.

Institutional Door Hardware Standards

1. Locks and Cylinders: All locks shall be specified as Schlage. Any substitutions shall be approved by UW Lock Shop prior to specification. All keyed cylinders shall be approved by the UW Lock Shop prior to specification. All cylinders shall be specified Less Key Blank (LKB).
2. Interchangeable Construction Cores: For all key-locked doors, the contractor shall provide the lock cylinder with an interchangeable construction core. These cores are temporary for the construction period with the contractor in control of keying. These temporary construction cores are for securing the facility, elevator equipment rooms, IT rooms, high voltage rooms and any other spaces as required. At the end of construction, the temporary cores are replaced with the permanent cores. The core replacement shall be the responsibility of the contractor with the UW Lock Shop present. Temporary construction cylinders/cores shall remain supplier's property. Supplier shall furnish construction keys and construction control keys as needed to UW Lock Shop. All interchangeable cores shall be furnished as follows:
 - 2.1. Zero bitted Less Key Blanks Less Collar.
 - 2.2. The cores shall be keyed by the UW Madison Lock Shop
 - 2.3. All permanent cores to be purchased by UW Madison.
 - 2.4. All permanent cores shall be installed by the contractor.
 - 2.5. Construction keying: Furnish temporary keyed alike cylinders/cores.
3. Exit Devices: All Exit Devices shall be Von Duprin 99 series and any substitutions shall be approved by the UW Lock Shop prior to specification.
4. Removable Mullion: The campus standard shall be Von Duprin without substitution.
5. Door Closers: All Door Closers shall be LCN 4040XP series with metal covers in plated finish, any substitutions shall be approved by the UW Glass Shop prior to specification.
6. Power Operators: All Power Operators shall be Stanley Magic Force Exterior Doors, Stanley Magic Access Interior Doors series ADA door operators any substitutions shall be approved by the UW Glass Shop prior to specification.
7. Hardware Installation: A pre-installation meeting which includes the Manufacturer's representatives, DFD construction rep and the UW Lock Shop shall be coordinated by the contractor.
8. Electric Strikes: If electric strikes must be used, Folger Adams and Von Duprin shall be the only two acceptable manufacturers with Folger Adams as the preferred choice. All electric strikes shall be 24 volt AC or DC as the opening requires. Electric strikes are NEVER acceptable for building exterior doors and shall not be used for high security applications.
9. Electric Mortise Hardware: The campus standard shall be Schlage without substitution.
10. Electronic Power Transfers: Must have ten 24AWG wires, with a maximum rating of 24 VDC, 1A.



08 71 21. Door Hardware Specification Guide, Manufacturers and Products for Mechanical and Electronic Components

Substitutions or alternates must be approved by UW Lock-shop prior to specification.

<u>Description</u>	<u>Manufacturer</u>	<u>Model/Series</u>
Hanging Devices		
Mortise Hinge	Ives	5BB1, 5BB1HW, Continuous Hinges on Exterior openings.
Alternate(s)	None	
Securing Device		
Exterior Key System	Schlage	LBK
Alternate(s)	None	Determined by Owner
Interior Key System	Schlage	LBK
Alternate(s)	None	Determined by Owner
Rim Cylinder	Schlage	As Required. LBK
Alternate(s)	None	Determined by Owner
Mortise Cylinder	Schlage	As Required, LBK
Alternate(s)	None	Determined by Owner
Mortise Lock	Schlage	L9000Series
Alternate(s)	None	
Grade 1 Cylindrical Lock	Schlage	ND Series
Alternate(s)	None	
Securing Devices (continued)		
Exit Device	Von Duprin	99 Series
Alternate(s)	None	
Removable Mullion	Von Duprin	KR4954/KR9954
Alternate(s)	None	
Flush Bolt	Ives	FB458, Manual Bolt FB31P Automatic, HM Door FB41P Automatic, Wood Door
Dustproof Strike	Ives	DP1, DP2
Alternate(s)	None	
Closing Devices		
Mechanical Door Closer	LCN	4040XP Series
Alternate(s)	None	
Low Energy Operator	Stanley	Magic Force Exterior Doors Magic Access Interior Doors
Alternate(s)	None	



Electromechanical Devices

Electrified Exit Device	Von Duprin	QEL99 Series (914 Power with 2Q Card) E99L Series w/Electrified Lever Trim E996L
Alternate(s)	Electric Strikes	Von Duprin *Must be approved by Owner (FP&M)
Power Transfer Device	Von Duprin	EPT-10
Alternate(s)	None	
Magnetic Lock	Schlage	As Required
Alternate(s)	None	
Power Supply – Exit Device	Von Duprin	914 Power Supply with appropriate card
Alternate(s)	None	
Magnetic Door Holder	LCN	SEM Series
Alternate(s)	ABH	2000 Series

Stops and Holders

Overhead Stop/Holder	Glynn-Johnson	90S/90H Series Surface Mount 100S/H Concealed
Alternate(s)	None	
Wall and Floor Stop	Ives	WS401 Wall Stop FS436 Floor Stop
Alternate(s)	None	

Other Hardware

Coordinator	Ives	COR x FL
Alternate(s)	None	
Push Plate	Ives	8200
Alternate(s)	None	
Pull Plate	Ives	8303
Alternate(s)	None	
Kickplate	Ives	8400
Alternate(s)	None	
Threshold	National Guard Products	8425
Alternate(s)	None	
Weatherstrip Seal	National Guard Products	160SA
Alternate(s)	None	
Access Control System	Andover	
Alternate(s)	None	



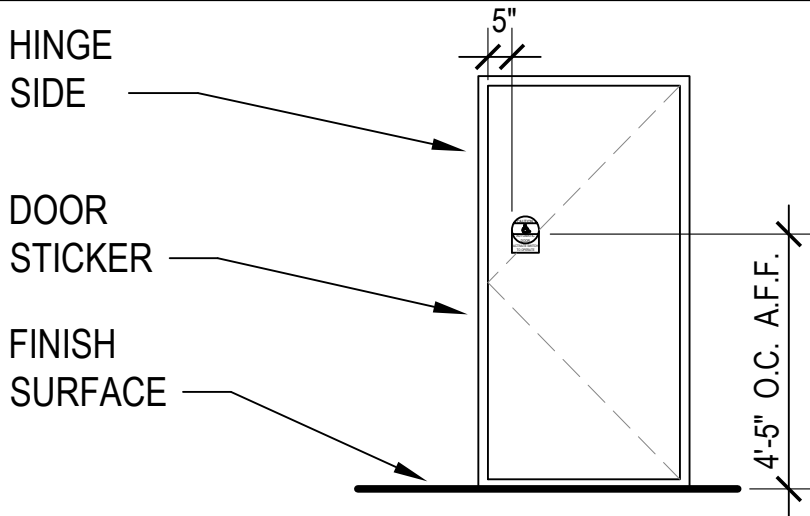
8 71 30. Door Hardware Installation

To ensure proper installation and adjustment of hardware items, the architect shall include the following verbiage within the Finish Hardware Section of the project specifications:

Prior to the start of hardware installation, the contractor shall schedule and conduct a pre-installation meeting with the hardware supplier, lock, exit device, and door closer manufacturers' representative(s), installer, owner's representative and related trades, to coordinate materials and techniques and to sequence complex hardware items and system installation. Proper and correct installation and adjustment of hardware shall be reviewed and the criteria for the punchlist review shall be established. All parties shall convene at least one week prior to commencement of hardware installation. Written documentation of the date and attendees/participants shall be provided to the architect and owner for record.

08 80 00. Glazing

1. Clear, low-e, insulated window units shall be preferred by the University. The context of specific project shall be taken into consideration with the final selection of glass types.
2. Mock-ups for all exterior building materials, including all window, glazing, and spandrel types shall be required.
3. If glazing or door lights are provided for secured areas (along public hallways) laminated glass shall be used. Pattern glass can be used when necessary for privacy.
4. Door lights shall be acceptable in public and shared spaces such as conference rooms, lounges, etc.
5. Where operable windows are allowed, hoppers, awning or casement windows shall be preferred. A connection between these windows and the air handling system shall be provided for greater energy efficiency.
6. Any windows adjacent to green roofs shall have low glare glass to prevent intense sun light from reflecting off the windows and killing the green roof plant material.



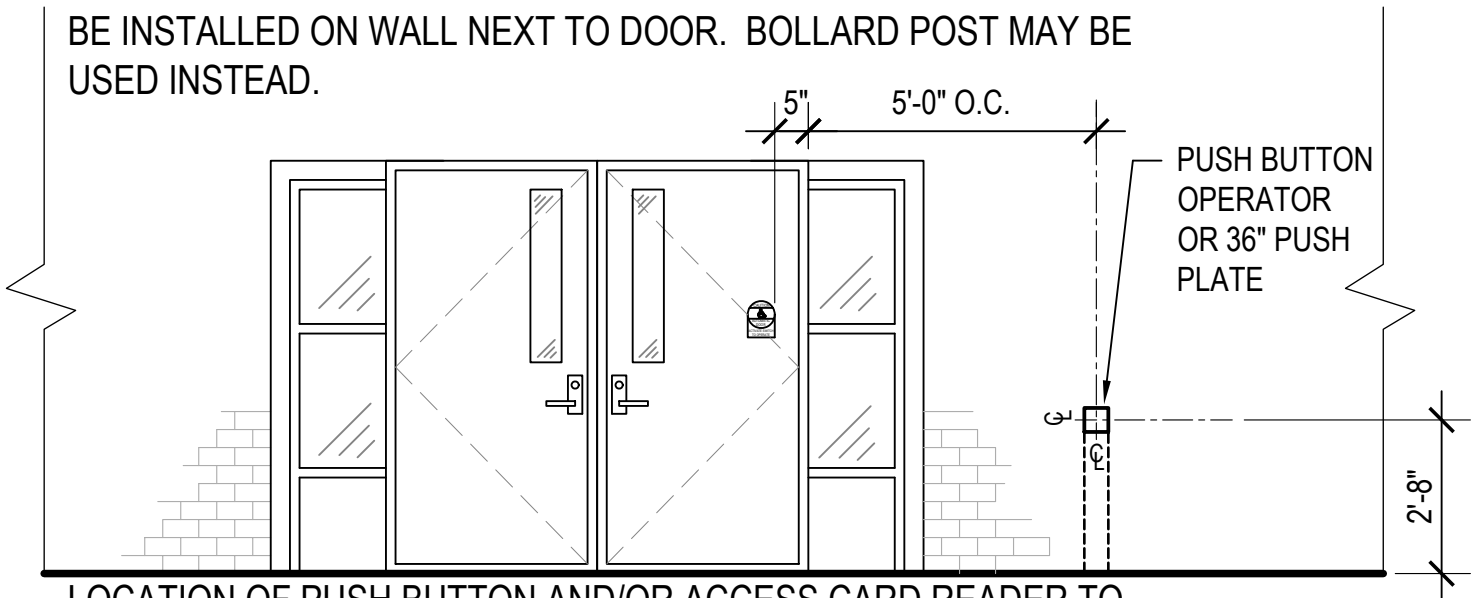
NOTE:
 STICKER SHALL BE PLACED ON EACH SIDE OF THE DOOR BEING OPENED, AT THE SPECIFIED HEIGHT. EXACT STICKER PLACEMENT LOCATION MIGHT BE DOOR SPECIFIC. CHECK WITH DESIGNER TO VERIFY.

DOOR ID PLACEMENT STICKER

NOT TO SCALE



SITE CONDITIONS MAY NOT ALLOW PUSH BUTTON OPERATOR TO BE INSTALLED ON WALL NEXT TO DOOR. BOLLARD POST MAY BE USED INSTEAD.



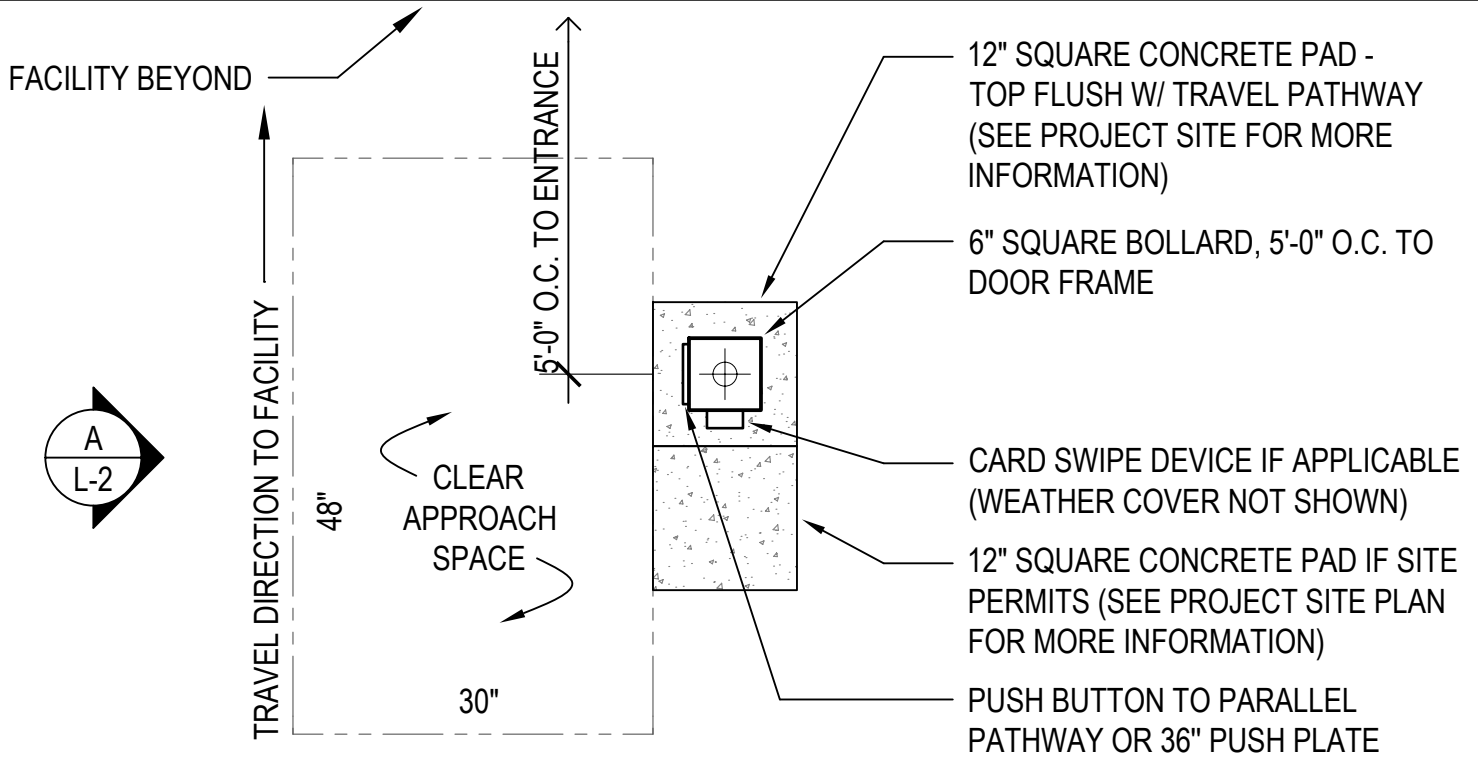
LOCATION OF PUSH BUTTON AND/OR ACCESS CARD READER TO BE MOUNTED 32" A.F.F.

PUSH BUTTON LOCATIONS

NOT TO SCALE (NON-BOLLARD APPLICATIONS)

NOTE: ILLUSTRATION ONLY, SITE CONDITIONS MAY VARY. SEE PROJECT LEADER FOR FINAL QUESTIONS.

<p>THE UNIVERSITY WISCONSIN MADISON</p>	Project: Accessibility Details	Designed By: N/A	Date: 01/04/10
	Drawing Title: ID Sticker and Button Locations	Drawn By: RJR	Scale: NTS
	Building No.: N/A	O.S.M.:	Sheet: L-1
	File: L:\ACAD\PLANNING\Accessibility\Accessibility Details\Stickers_PushButtons_Bollards.dwg	Revision:	Date:
	FACILITIES PLANNING AND MANAGEMENT Campus Planning & Landscape Architecture	Suite 930 WARF 610 Walnut Street Madison, Wisconsin 53726	Of: 2

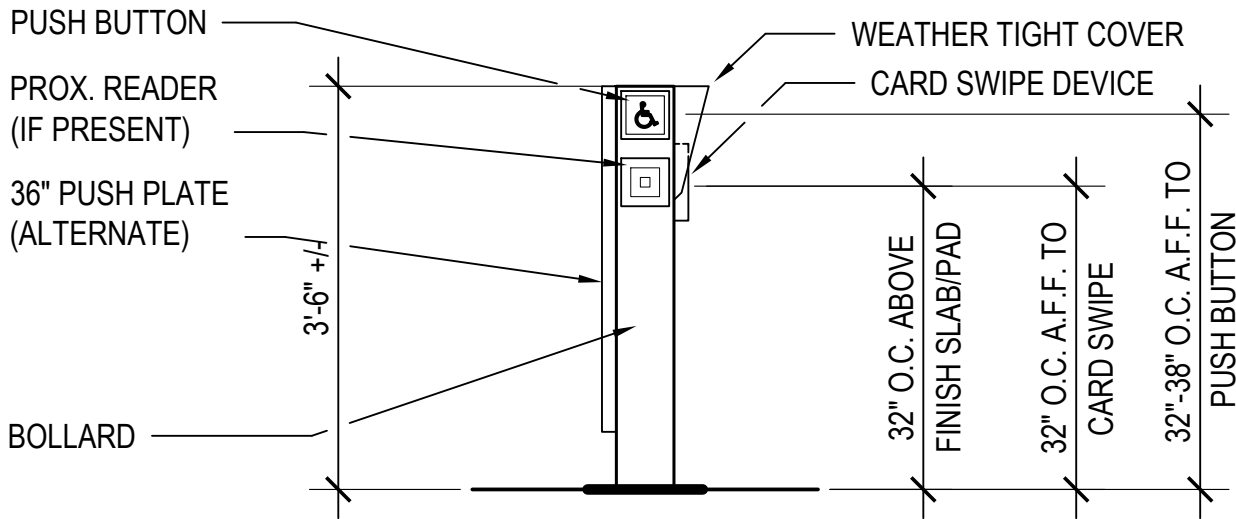


BOLLARD PLAN

NOT TO SCALE

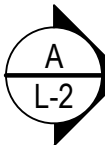
NOTE:


IF APPLICABLE, THE PUSH BUTTON MOUNTING HEIGHT SHALL BE RAISED TO 38" O.C. INSTEAD OF THE STANDARD 32" O.C. TO ACCOMMODATE A PROX. CARD READER 32" O.C. ON THE SAME SIDE OF THE BOLLARD.



BUTTON MOUNTING HEIGHTS

NOT TO SCALE



 <p>THE UNIVERSITY WISCONSIN MADISON</p>	Project: Accessibility Details	Designed By: N/A	Date: 01/04/10	
	Drawing Title: Bollards and Push Buttons	Drawn By: RJR	Scale: NTS	
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	FACILITIES PLANNING AND MANAGEMENT Campus Planning & Landscape Architecture	Suite 930 WARF 610 Walnut Street Madison, Wisconsin 53726		Sheet: L-2
			Of: 2	