ADDENDUM #1



CONTRA COSTA COMMUNITY COLLEGE

D-1190, D-1194, D-1195 STUDENT SUCCESS CENTER, HEALTH SERVICES STATION AND PRINT SHOP RELOCATION
Diablo Valley College

Date: April 26, 2022

NOTICE TO ALL CONTRACTORS

You are hereby notified of the following changes, clarifications and/or modifications to the original Contract Documents, Project Manual, Drawings, Specifications and/or previous Addenda. This Addendum shall supersede the original Contract Documents and previous Addenda wherein it contradicts the same, and shall take precedence over anything to the contrary therein. All other conditions remain unchanged.

This Addendum forms a part of the Contract Documents and modifies the original Bid Documents dated *March 28, 2022.* Acknowledge receipt of this Addendum in space provided on the Bid Proposal Form. Failure to acknowledge may subject Bidder to disqualification.

A. Deletions, Additions, Changes, Revisions

- 1. Design document changes.
 - a. See attached "Exhibit A D-1190, 1194, 1195 ADDENDUM 01" for all plan and specification changes.
 - b. Several spec changes are bolded in the attached.
- 2. Contractor to price all three projects separately. For example a price for the Success Center, a price for the Print Shop Relocation and a price for the Health Services Station.
- 3. Changes to Section 00100 NOTICE TO INVITING BIDS
 - a. Last day for RFIs changed to April 29th.
 - b. Last day for addendum changed to May 2nd.
 - c. Bids due changed to May 5th.

B. Request for Information and Responses

- 1. In the specs it calls for a B License company, would you accept an A License for this project?
 - a. No, only a B license is acceptable.

ADDENDUM #1

C. If you have any questions regarding this Addendum, please contact:

Ben Cayabyab – Contracts Manager Contra Costa Community College District, 500 Court St., Martinez, CA 94553

Email: bcayabyab@4cd.edu

Ben Cayabyab Contracts Manager

Contra Costa Community College District

END OF ADDENDUM #1

Contra Costa Community College District

EXHIBIT A -- D-1190, D-1194, D-1195

DVC Renovations

Diablo Valley College

Addendum #1

April 26, 2021

This Addendum modifies the original Bid Documents and previously issued addenda for the above Bid. Except as noted in this addendum, or prior addenda, all other provisions of the bid documents remain in effect.

Acknowledge receipt of this addendum in the space provided on the BID PROPOSAL FORM. Failure to do so may subject Bidder to disqualification.

Table of contents:

Drawings Specifications See Narrative and 37 Attached Sheets See Narrative and Attached Pages

Architect's Stamp: The drawings, specifications and/or calculations in this addendum have been prepared by the architect and/or other design professionals who are licensed to prepare same in California. These documents have been reviewed by me and appear to be in conformance with applicable parts of Title 24, CCR and project specifications. They have been coordinated with the project plans and specifications and determined by me, the Architect in General Responsible Charge, to be acceptable for incorporation therein.

ADDENDUM ONE

DRAWINGS

1	G1.01	Sheet index: Revise Civil Sheets Delete CP3.03
2	CP0.00 – CP3.02	Sheets are re-issued.
3	CP3.03	Sheet is deleted.
4	C1.0 – C5.0	Sheets are re-issued.
5	A1.10	Drawing 1: Updates to floor plan.
6	A2.31	Drawing 1: Updates to floor plan. Add Drawing 3
7	A2.50	Drawing 3: Add note regarding Fire Strobe Drawing 12: Add note regarding Fire Strobe Add reference keynote regarding Fire Strobe
8	A2.51	Drawing 3: Add note regarding Fire Strobe Add reference keynote regarding Fire Strobe
9	M0.1	General HVAC Notes: Revise Note 6
10	MD1.10	HVAC Demolition Plan: Revise existing thermostat note
11	M1.10	HVAC Plan: Revise Sheet Notes
12	M1.31	HVAC Plan: Add VAV Callouts

ADDENDUM ONE

13	M1.32	HVAC Plan: Revise Sheet Note 1
14	M7.1	Detail 4: Revise Sequence of Operations - VAV Detail
15	E0.1	Updated Lighting Controls Programming Notes Updated symbols to include Horn/Strobe
16	E2.10	Power Plan: Updates to fire alarm devices
17	E2.31	Power Plan: Updates to power poles and power outlets Detail 2: Added detail for power pole mounting
18	E7.1	Updates to panel schedules. Added note regarding Fire Lift Safety breakers.

SPECIFICATIONS

1	00010	Table of Contents Add: Fire Alarm Cut Sheets and DSA 103
2	01411	Add: 1.11, B, 11 DSA 103 Form. See the DSA 103 form, following Section 01780, for required tests.
3	DSA 103 and CSFM Cut Sheets	DSA 103 form and CSFM Cut Sheets are added.

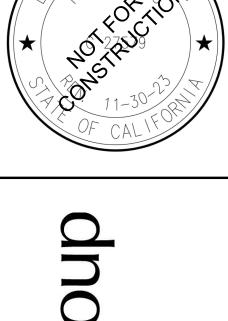
END OF ADDENDUM

ADDENDUM ONE

			Sheet List	
	Discipline	Sheet Number	Sheet Name	
	·	IVAIIIDEI	Officer (Marile	
	00 - GENERAL	G0.00	COVER SHEET	
	00 - GENERAL	G1.00	GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	
	00 - GENERAL	G1.01	SHEET INDEX	
	05 - CODE			
	05 - CODE	CP0.00	CODE PLAN - SUMMARY	
	05 - CODE	CP1.10	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 1 CODE PLAN	
	05 - CODE 05 - CODE	CP1.20 CP1.22	STUDENT SERVICES - BUSINESS/FOREIGN LANGUAGE BLDG AND PERFORMING ARTS CENTER - LEVEL 1 CODE PLAN STUDENT SERVICES - LEARNING CENTER - LEVEL 1 CODE PLAN	
	05 - CODE	CP1.22	STUDENT SERVICES - LEARNING CENTER - LEVEL 1 CODE PLAN STUDENT SERVICES - PLANETARIUM - LEVEL 1 CODE PLAN	
	05 - CODE	CP2.31	PRINT SHOP - BOOKSTORE - LEVEL 2 CODE PLAN	
	05 - CODE	CP3.00	ACCESSIBILITY DETAILS - BUILDING	
	05 - CODE	CP3.01	ACCESSIBILITY DETAILS - RESTROOMS	
	05 - CODE	CP3.02	ACCESSIBILITY DETAILS - TYPICAL MOUNTING HEIGHTS	
_	08 - CIVIL	γ~ \		
,	08 - CIVIL	C1.0	NOTES SHEET TOPOGRAPHIC & DEMOLITION DI ANI	\ \
_	08 - CIVIL 08 - CIVIL	C2.0 C2.1	TOPOGRAPHIC & DEMOLITION PLAN TOPOGRAPHIC & DEMOLITION PLAN - LOT 3	egthinspace = egt
	08 - CIVIL	C2.1	TOPOGRAPHIC AND DEMOLITION PLAN - LOT 8	\
,	08 - CIVIL	C3.0	PAVING & DIMENSIONING PLAN])
>	08 - CIVIL	C3.1	PAVING & DIMENSIONING PLAN - LOT 3	5
•	08 - CIVIL	C3.2	PAVING & DIMENSIONING PLAN - LOT 8)
_	08 - CIVIL 08 - CIVIL	C4.0 C4.1	GRADING AND UTILITY PLAN GRADING AND UTILITY PLAN - LOT 3	$\langle \cdot \rangle$
	08 - CIVIL	C4.2	GRADING AND UTILITY PLAN - LOT 8	1
,	08 - CIVIL	C5.0	DETAILS I	
7	الريار		WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	7
	9 - DEMOLITION 9 - DEMOLITION	AD1.10	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 1 DEMOLITION PLAN	
	9 - DEMOLITION	AD1.10	STUDENT SERVICES - STODENT ONION BEDG - LEVEL 1 DEMOLITION FLAN STUDENT SERVICES - BUSINESS/FOREIGN LANGUAGE BLDG AND PERFORMING ARTS CENTER- LEVEL 1 DEMOLITION PLAN	$\mid \mathbf{\lambda} \mid$
	9 - DEMOLITION	AD1.22	STUDENT SERVICES - LEARNING CENTER - LEVEL 1 DEMOLITION PLAN	
	9 - DEMOLITION	AD1.23	STUDENT SERVICES - PLANETARIUM - LEVEL 1 DEMOLITION PLAN	
	9 - DEMOLITION	AD2.31	PRINT SHOP - BOOKSTORE - LEVEL 2 - DEMOLITION PLAN	
	9 - DEMOLITION 9 - DEMOLITION	AD3.10 AD3.30	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 1 REFLECTED CEILING DEMOLITION PLAN PRINT SHOP - BOOKSTORE - LEVEL 2 REFLECTED CEILING DEMOLITION PLAN	
	O BEMOEITION	7120.00	THAT OHOL BOOKSTOKE ELVELZIVELEGIED GELLING BEMOEITIGIT EAT	
	10 - ARCHITECTURAL	10.40	OAMBUO OITE DI AM	ا ر
	10 - ARCHITECTURAL 10 - ARCHITECTURAL	A0.10 A1.10	CAMPUS SITE PLAN HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 1 FLOOR PLAN	
	10 - ARCHITECTURAL	A1.10	STUDENT SERVICES - STODENT ONION BEDG - LEVEL THEOOR PLAN STUDENT SERVICES - BUSINESS/FOREIGN LANGUAGE BLDG AND PERFORMING ARTS CENTER - LEVEL 1 FLOOR PLAN	
	10 - ARCHITECTURAL	A1.22	STUDENT SERVICES - LEARNING CENTER - LEVEL 1 FLOOR PLAN	
	10 - ARCHITECTURAL	A1.23	STUDENT SERVICES - PLANETARIUM - LEVEL 1 FLOOR PLAN	
	10 - ARCHITECTURAL	A2.31	PRINT SHOP - BOOKSTORE - LEVEL 2 - FLOOR PLAN	
	10 - ARCHITECTURAL 10 - ARCHITECTURAL	A2.50 A2.51	PARTIAL FLOOR PLANS - RESTROOMS PARTIAL FLOOR PLANS - RESTROOMS	-
	10 - ARCHITECTURAL	A2.51	PARTIAL FLOOR PLANS - RESTROOMS	
	10 - ARCHITECTURAL	A2.91	PRINT SHOP - BOOKSTORE - ROOF PLAN	
	10 - ARCHITECTURAL	A3.10	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 1 REFLECTED CEILING PLAN	
	10 - ARCHITECTURAL	A8.00	PARTITION TYPES	
	10 - ARCHITECTURAL 10 - ARCHITECTURAL	A8.10 A9.00	DOOR & FRAME, WINDOW TYPES & SCHEDULE EXTERIOR DETAILS	
	10 - ARCHITECTURAL	A10.00	INTERIOR ELEVATIONS	-
	10 - ARCHITECTURAL	A10.50	CASEWORK ELEVATIONS	
	10 - ARCHITECTURAL	A11.00	INTEROR DETAILS - TYPICAL	
	10 - ARCHITECTURAL	A11.01	INTERIOR DETAILS INTERIOR DETAILS - FLOOR	
	10 - ARCHITECTURAL 10 - ARCHITECTURAL	A11.02 A11.05	INTERIOR DETAILS - FLOOR INTERIOR DETAILS - CASEWORK	-
	10 - ARCHITECTURAL	A11.20	INTERIOR DETAILS - CASEWORK INTERIOR DETAILS - DOOR	
	10 - ARCHITECTURAL	A11.30	INTERIOR DETAILS - CEILING - SUSPENDED ACP	
	10 - ARCHITECTURAL	A11.31	INTERIOR DETAILS - CEILING - GWB	
	10 - ARCHITECTURAL	A11.32	INTERIOR DETAILS - CEILING - HANGER AND BRACING WIRES	
	10 - ARCHITECTURAL 10 - ARCHITECTURAL	A11.33 A12.00	INTERIOR DETAILS - CEILING - COMPRESSION STRUTS FINISH SCHEDULES	
	10 - ARCHITECTURAL	A12.10	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 1 FINISH PLAN	
	10 - ARCHITECTURAL	A12.31	PRINT SHOP - BOOKSTORE - LEVEL 2 FINISH PLAN	
	10 - ARCHITECTURAL	A14.00	SIGN TYPES & SIGNAGE DETAILS	

				Sheet List
		Discipline	Sheet Number	Sheet Name
		20 - STRUCTURAL		
		20 - STRUCTURAL	S0.1	GENERAL STRUCTURAL NOTES & SPECIAL INSPECTIONS
		20 - STRUCTURAL	S1.20	STUDENT SERVICES - PERFORMING ARTS CENTER - STRUCTURAL
		20 - STRUCTURAL	S6.1	STRUCTURAL DETAILS
		20 - STRUCTURAL	S6.2	STRUCTURAL DETAILS
		20 - STRUCTURAL	S6.3	STRUCTURAL DETAILS
		30 - MECHANICAL		
		30 - MECHANICAL	M0.1	MECHANICAL SYMBOLS, ABBREVIATIONS & NOTES
		30 - MECHANICAL	M0.2	MECHANICAL SPECIFICATIONS
		30 - MECHANICAL	MD1.10	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 01 - HVAC DEMOLITION PLAN
		30 - MECHANICAL	MD1.31	PRINT SHOP - BOOKSTORE - LEVEL 02 - HVAC DEMOLITION PLAN
		30 - MECHANICAL	M1.10	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 01 - HVAC PLAN
		30 - MECHANICAL	M1.22	STUDENT SERVICES - PLANETARIUM - LEVEL 01 - HVAC PLAN
eg		30 - MECHANICAL	M1.31	PRINT SHOP - BOOKSTORE - LEVEL 02 - HVAC PLAN
<i>r</i>	\	30 - MECHANICAL	M1.32	PRINT SHOP - BOOKSTORE - ROOF - HVAC PLAN
	۷	30 - MECHANICAL	M7.1	MECHANICAL DETAILS
) '			
_		40 - ELECTRICAL		
-	۷	40 - ELECTRICAL	E0.1	ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES
)	40 - ELECTRICAL	E0.3	TITLE 24 FORMS
_		40 - ELECTRICAL	E0.4	TITLE 24 FORMS
	۷	40 - ELECTRICAL	E0.5	TITLE 24 FORMS
)	40 - ELECTRICAL	ED1.10	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 1 ELECTRICAL DEMOLITION PLAN
_		40-ELECTRICAL	ED1.20	STUDENT SERVICES BUSINESS FOREIGH LANGUAGE BADG LEVEL 1 ELECTRICAL DEMOUTION PLAN
	*	40 - ELECTRICAL	ED1.22	STUDENT SERVICES - LEARNING CENTER - LEVEL 1 ELECTRICAL DEMOLITION PLAN
		407 EXECTBICAL		HEALTH SERVICES - STUDENT WHOM BUDGS-LEVELOT - SCHIZUTGE AND
	1	40 - ELECTRICAL	E1.11	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 1 EM PHOTOMETRICS
		40 EXECTPION	~ {\20 ~ \	STUDENT SERVICES - BUSINESSIFOR RIGHTAN QUAGE BYOG AND RAC - LEVEL OI LICH TUNG PLANS
		40 - ELECTRICAL	E1.21	STUDENT SERVICES - BUSINESS/FOREIGN LANGUAGE BLDG AND PAC - LEVEL 01 EM PHOTOMETRICS
	•	40 ELECTRICAL	<u>√</u> 2210	HEALTH SERVICES - STUDENT UNION BLOG -LEVEL OF POWER PLAN
	/ ' 7	40 - ELECTRICAL	E2.20	STUDENT SERVICES - BUSINESS/FOREIGN LANGUAGE BLDG AND PAC - LEVEL 01 - POWER PLANS
	+	40 - ELECTRICAL	E2.22	STUDENT SERVICES - PLANETARIUM - LEVEL 01 - POWER PLAN
	-	40 - ELECTRICAL	E2.31	PRINT SHOP - BOOKSTORE - LEVEL 02 - POWER PLAN
	-	40 - ELECTRICAL	E2.32	PRINT SHOP - BOOKSTORE - ROOF - POWER
		40 - ELECTRICAL	E7.1	ELECTRICAL SCHEDULES
	Į	50 - PLUMBING		
	1	50 - PLUMBING	P0.1	PLUMBING GENERAL NOTES, SCHEDULES, SYMBOLS & ABBREVIATIONS
	-	50 - PLUMBING	PD2.10	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 01 - PLUMBING DEMOLITION PLAN
	-	50 - PLUMBING	PD2.10	STUDENT SERVICES - LEARNING CENTER - LEVEL 01 - PLUMBING DEMOLITION PLAN
	-	50 - PLUMBING	PD2.22	STUDENT SERVICES - PLANETARIUM - LEVEL 01 - PLUMBING DEMOLITION PLAN
	-	50 - PLUMBING	P2.10	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 01 - PLUMBING PLAN
	-	50 - PLUMBING	P2.10	STUDENT SERVICES - LEARNING CENTER - LEVEL 01 - PLUMBING PLAN
	-	50 - PLUMBING	P2.21	STUDENT SERVICES - LEARNING CENTER - LEVEL 01 - PLUMBING PLAN STUDENT SERVICES - PLANETARIUM - LEVEL 01 - PLUMBING PLAN
		50 - PLUMBING	P2.22	PRINT SHOP - BOOKSTORE - LEVEL 02 - PLUMBING PLAN
		50 - PLUMBING	P2.31	BFL - RESTROOMS - PLUMBING DEMOLITION & NEW PLANS
		JU - FLUIVIDIING	FZ.3	DI L - NESTROUMS - FLUMDING DEMOLITION & NEW FLAMS





DSA APP: 01-119997 DSA FILE: 07-C1

DVC - Print Shop, Student Success, & Health Services Renovation CCCCD - Diablo Valley College

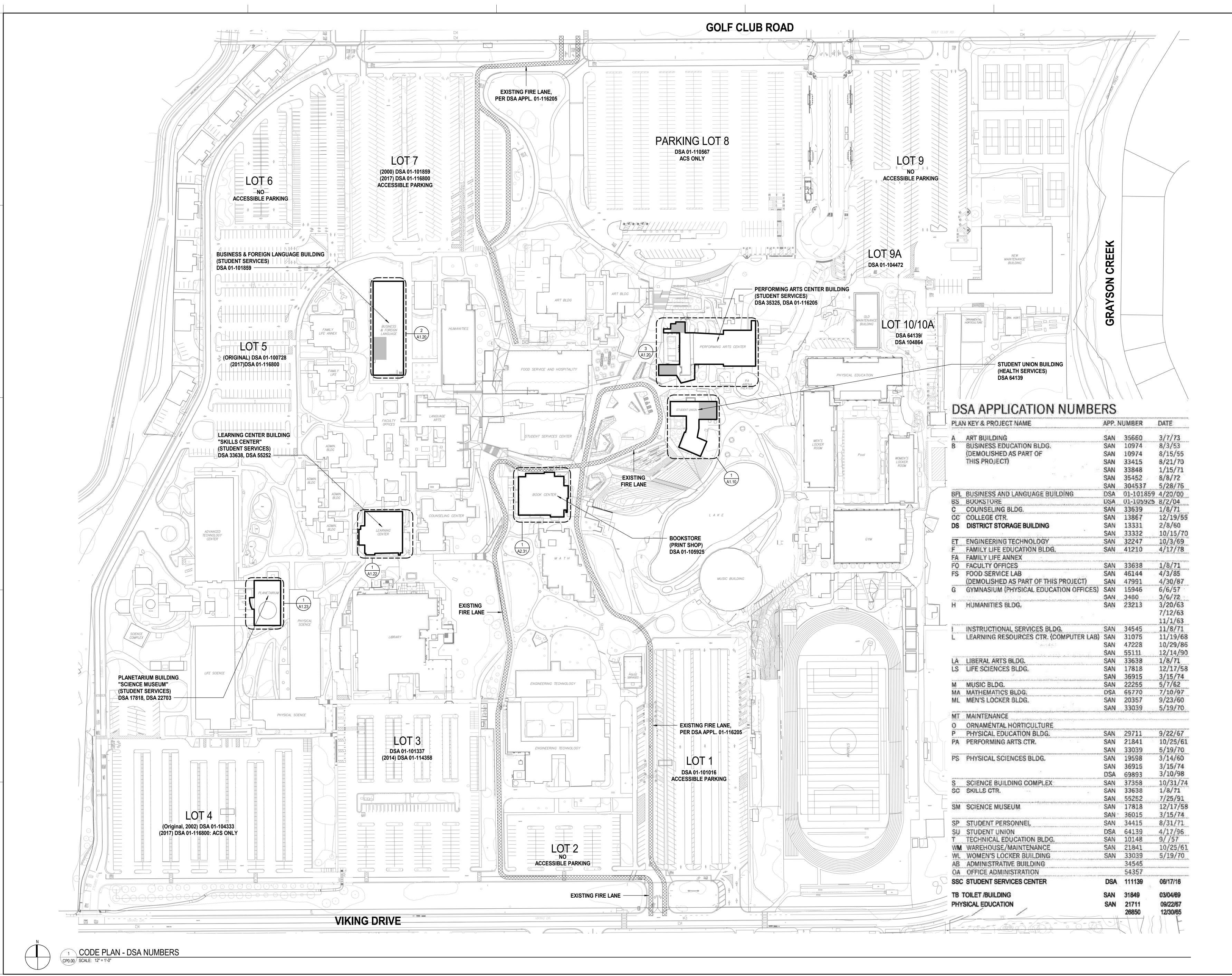
ADDENDUM 1

04/22/2022 Revisions 1 04/22/2022 ADDENDUM 1

DLR GROUP PROJECT NUMBER: 75-21809-00

SHEET INDEX

G1.01





San Francisco, CA 94104

DSA APP: 01-119997

DSA FILE: 07-C1

C - Print Shop, Student scess, & Health Services novation

ADDENDUM 1

04/22/2022

Revisions
1 04/22/2022 ADDENDUM 1

DLR GROUP PROJECT NUMBER: 75-21809-00

CODE PLAN - SUMMARY

CP0.00

SECTION 11B-202 EXISTING BUILDINGS AND FACILITIES

11B-202.1 General. Additions and alterations to existing buildings or facilities shall comply with Section 11B-202. 11B-202.2 Additions. Each addition to an existing building or facility shall comply with the requirements for new construction and shall comply with Section 11B-202.4. 11B-202.3 Alterations. Where existing elements or spaces are altered, each altered element or space shall comply with the applicable requirements of Division 2, including Section

2. Technically infeasible. In alterations, where the enforcing authority determines compliance with applicable requirements is technically infeasible, the alteration shall provide equivalent facilitation or comply with the requirements to the maximum extent feasible. The details of the finding that full compliance with the requirements is technically infeasible shall

be recorded and entered into the files of the enforcing agency.

11B-202.4 Path of travel requirements in alterations, additions and structural repairs. When alterations or additions are made to existing buildings or facilities, an accessible path of travel to the specific area of alteration or addition shall be provided. The primary accessible path of travel shall include: 1. A primary entrance to the building or facility,

2. Toilet and bathing facilities serving the area, 3. Drinking fountains serving the area, 4. Public telephones serving the area, and

Signs. Exceptions:

2. If the following elements of a path of travel have been constructed or altered in compliance with the accessibility requirements of the immediately preceding edition of the California Building Code, it shall not be required to retrofit such elements to reflect the incremental changes in this code solely because of an alteration to an area served by those elements of the path of travel:

1. A primary entrance to the building or facility, 2. Toilet and bathing facilities serving the area, 3. Drinking fountains serving the area,

4. Public telephones serving the area, and

Note: The language in this exception, which refers to the "immediately preceding edition of the California Building Code," shall permit a reference back to one CBC edition only and is not accumulative to prior editions.

SECTION 1005 MEANS OF EGRESS SIZING

1005.3.1 Stairways. The capacity, in inches, of means of egress stairways shall be calculated by multiplying the occupant load served by such stairways by a means of egress capacity factor of 0.3 inch (7.6 mm) per occupant. Where stairways serve more than one story, only the occupant load of each story considered individually shall be used in calculating the required capacity of the stairways serving that story.

1. For other than Group H and 1-2 occupancies, the capacity, in inches, of means of egress stairways shall be calculated by multiplying the occupant load served by such stairways by a means of egress capacity factor of 0.2 inch (5.1 mm) per occupant in buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2 and an emergency voice/alarm communication system in accordance with Section 907.5.2.2. 1005.3.2 Other egress components. The capacity, in inches, of means of egress components other than stairways shall be calculated by multiplying the

1. For other than Group H and 1-2 occupancies, the capacity, in inches, of means of egress components other than stairways shall be calculated by

multiplying the occupant load served by such component by a means of egress capacity factor of 0.15 inch (3.8 mm) per occupant in buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2 and an emergency voice/alarm communication system in accordance with Section 907.5.2.2. 1005.7 Encroachment. Encroachments into the required means of egress width shall be in accordance with the provisions of this section. 1005.7.1 Doors. Doors, when fully opened, shall not reduce the required width by more than 7 inches (178 mm). Doors in any position shall not reduce

SECTION 1006 NUMBER OF EXITS AND EXIT ACCESS DOORWAYS

the required width by more than one-half.

occupant load served by such component by a means of egress capacity factor of 0.2 inch per occupant.

1006.2.1 Egress based on occupant load and common path of egress travel distance. Two exits or exit access doorways from any space shall be provided where the design occupant load or the common path of egress travel distance exceeds the value listed in Table 1006.2.1.

1. The number of exits from foyers, lobbies, vestibules or similar spaces need not be based on cumulative occupant loads for areas discharging through such spaces, but the capacity of the exits from such spaces shall be based on applicable cumulative occupant loads.

TABLE 1006.2.1: SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY

1006.3 Egress from stories or occupied roofs. The means of egress system serving any story or occupied roof shall be provided with the number of separate

Maximum occupant load of space Maximum Common Path of Egress Travel Distance (feet) with sprinkler

and distinct exits or access to exits based on the aggregate occupant load served in accordance with this section. Where stairways serve more than one story, only the occupant load of each story considered individually shall be used in calculating the required number of exits or access to exits serving that story.

1007.1.1 Two exits or exit access doorways: Per 1007.1.1 Exception 2, for a sprinklered building, the separation of the exit doors or exit access doorways shall not be less than one-third of the length of the maximum overall diagonal dimension of the space being served. **1007.1.1.1 Measurement point.** The separation distance required in Section 1007.1.1 shall be measured in accordance with the following:

1. The separation distance to exit or exit access doorways shall be measured to any point along the width of the doorway. 2. The separation distance to exit access stairways shall be measured to the closest riser. 3. The separation distance to exit access ramps shall be measured to the start of the ramp run.

SECTION 1009 ACCESSIBLE MEANS OF EGRESS

SECTION 1010 DOORS, GATES AND TURNSTILES

1009.1 Accessible means of egress: Accessible spaces shall be provided with not less than one accessible means of egress. Where more than one means of egress are required ... each accessible portion of the space shall be served by accessible means of egress in at least the same number as required.

1010.1.2.1 Direction of swing. Pivot or side-hinged swinging doors shall swing in the direction of egress travel where serving a room or area containing an occupant load of 50 or more persons...

1010.1.10 Panic and fire exit hardware. Swinging doors serving a Group H occupancy and swinging doors serving rooms or spaces with an occupant load of 50 or more in a Group A or E occupancy assembly area not classified as an assembly occupancy E, 1-2 or 1-2.1 occupancies shall not be provided with a latch or

lock other than panic hardware or fire exit hardware. For Group L occupancies see Section 453.6.3. 1. A main exit of a Group A occupancy shall be permitted to have locking devices in accordance with Section 1010.1.9.4, Item 2.

2. Doors provided with panic hardware or fire exit hardware and serving a Group A or E occupancy shall be permitted to be electrically locked in accordance with Section 1010.1.9.9 or 1010.1.9.10. Electrical rooms with equipment rated 800-amperes or more and over 6 feet (1829 mm) wide, and that contain overcurrent devices, switching devices or control devices with exit or exit access doors, shall be equipped with panic hardware or fire exit hardware. The doors shall swing in the direction of egress travel.

SECTION 1016 EXIT ACCESS 1016.1 General. The exit access shall comply with the applicable provisions of Sections 1003 through 1015. Exit access arrangement shall comply with Sections

1016.2 Egress through intervening spaces. Egress through intervening spaces shall comply with this section. 2. Egress from a room or space shall not pass through adjoining or intervening rooms or areas, except where such adjoining rooms or areas and the area served are accessory to one or the other, are not a Group H occupancy and provide a discernible path of egress travel to an exit. Exception: Means of egress are not prohibited through adjoining or intervening rooms or spaces in a Group H, S or F occupancy where the

... 5. Egress shall not pass through kitchens, storage rooms, closets or spaces used for similar purposes.

adjoining or intervening rooms or spaces are the same or a lesser hazard occupancy group.

SECTION 1017 EXIT ACCESS TRAVEL DISTANCE

1017.2. Limitations. Exit access travel distance shall not exceed the values given in Table 1017.2

A Occupancy, Sprinklered: 250' B Occupancy, Sprinklered: 300' F-1 Occupancy, Sprinklered: 250'

S-1 Occupancy, Sprinklered: 250' 1017.3 Measurement. Exit access travel distance shall be measured from the most remote point of each room, area or space along the natural and unobstructed path of horizontal and vertical egress travel to the entrance to an exit. 1017.3.1 Exit access stairways and ramps. Travel distance on exit access stairways or ramps shall be included in the exit access travel distance measurement. The measurement along stairways shall be made on a plane parallel and tangent to the stair tread nosings in the center of the stair and landings. The measurement along ramps shall be made on the walking surface in the center of the ramp and landings.

SECTION 1019 EXIT ACCESS STAIRWAYS AND RAMPS

1019.2 All occupancies. Exit access stairways and ramps that serve floor levels within a single story are not required to be enclosed. 1019.3 Occupancies other than Groups I-2, R-2.J, 1-3, and R-2.J. ... Floor openings containing exit access stairways or ramps that do not comply with one of conditions listed in this section shall be enclosed with a shaft enclosure constructed per Section 713. 1. Exit access stairways and ramps that serve or atmospherically communicate between only two stories. Such interconnected stories shall not be open to other stories.

SECTION 1020 CORRIDORS

1020.1 Construction. Corridors shall be fire-resistance rated in accordance with Table 1020.1. The corridor walls required to be fire-resistance rated shall comply with Section 708 for fire partitions.

Occupancy - A, B, F-1, S: Required Fire-resistance rating (hours) with sprinkler system: 0

TABLE 1020.2 MINIMUM CORRIDOR WIDTH

1020.4 Dead ends. Where more than one exit or exit access doorway is required, the exit access shall be arranged such that dead-end corridors do not exceed 20 feet in length.

2... [In Group B] where the building is equipped throughout with an automatic sprinkler system... the length of the dead-end corridors shall not exceed 50

SECTION 11B-804 KITCHENS, KITCHENETTES, AND WET BARS

11B-804.5 STORAGE At least 50 percent of shelf space in storage facilities shall comply with Section 11B-811.

11B-811.2 Clear Floor or Ground Space. A clear floor or ground space complying with 11B-305 shall be provided. 11B-811.3 Height. Storage elements shall comply with at least one of the reach ranges specified in Section 11B-308.

Dining surface and work surface shall comply with sections 11B-902.2 and 11B902.3. 11B-902.2 Clear Floor or Ground Space. A clear or ground space complying with 11B-305 positioned for a forward approach shall be provided. Knee and toe clearance complying with Section 11B-306 shall be provided.

11B-902.3 Height. The tops of dining surfaces and work surfaces shall be 28" min and 34" max above the finish floor or ground.

SECTION 3002 HOISTWAY ENCLOSURES 3002.4a General stretcher requirements. All buildings and structures with one or more passenger service elevators shall be provided with not less than one medical emergency service elevator to all landings... Exception 4: Elevator in two-story buildings or structures equipped with stairs of a configuration that will accommodate the carrying of the gurney or stretcher as permitted by the local jurisdictional authority.

ACCESSIBLE PATH OF TRAVEL UGPRADES REQUEST FOR UNREASONABLE HARDSHIP

SEE DSA RUH 1_V2

ACCESSIBLE PATH OF TRAVEL IS PROVIDED FOR USERS FROM THE EXISTING BUS STOP AND DROP OFF VIA ALTERNATE METHOD OF COMPLIANCE. THE COLLEGE PROVIDES ON-DEMAND TRANSPORT, PER THE DIABLO VALLEY COLLEGE DISABILITY SUPPORT SERVICES. ACCESS FROM PARKING LOT #3 AND THE ACCESSIBLE PARKING STALLS CONNECTS TO THE EXISTING PATH OF TRAVEL THROUGHOUT THE COLLEGE CAMPUS.

AREAS THAT HAVE BEEN FOUND TO BE NONCOMPLIANT ARE LISTED IN THE DSA RUH 1 FORM, AND THE COSTS ARE PROVIDED FOR THE ESTIMATED UPGRADES THAT WOULD BE REQUIRED TO BRING THESE AREAS TO FULL CODE COMPLIANCE.

DSA APPROVAL STAMP





DSA APP: 01-119997 DSA FILE: 07-C1

Student Services ervice hop, sealth

ADDENDUM 1

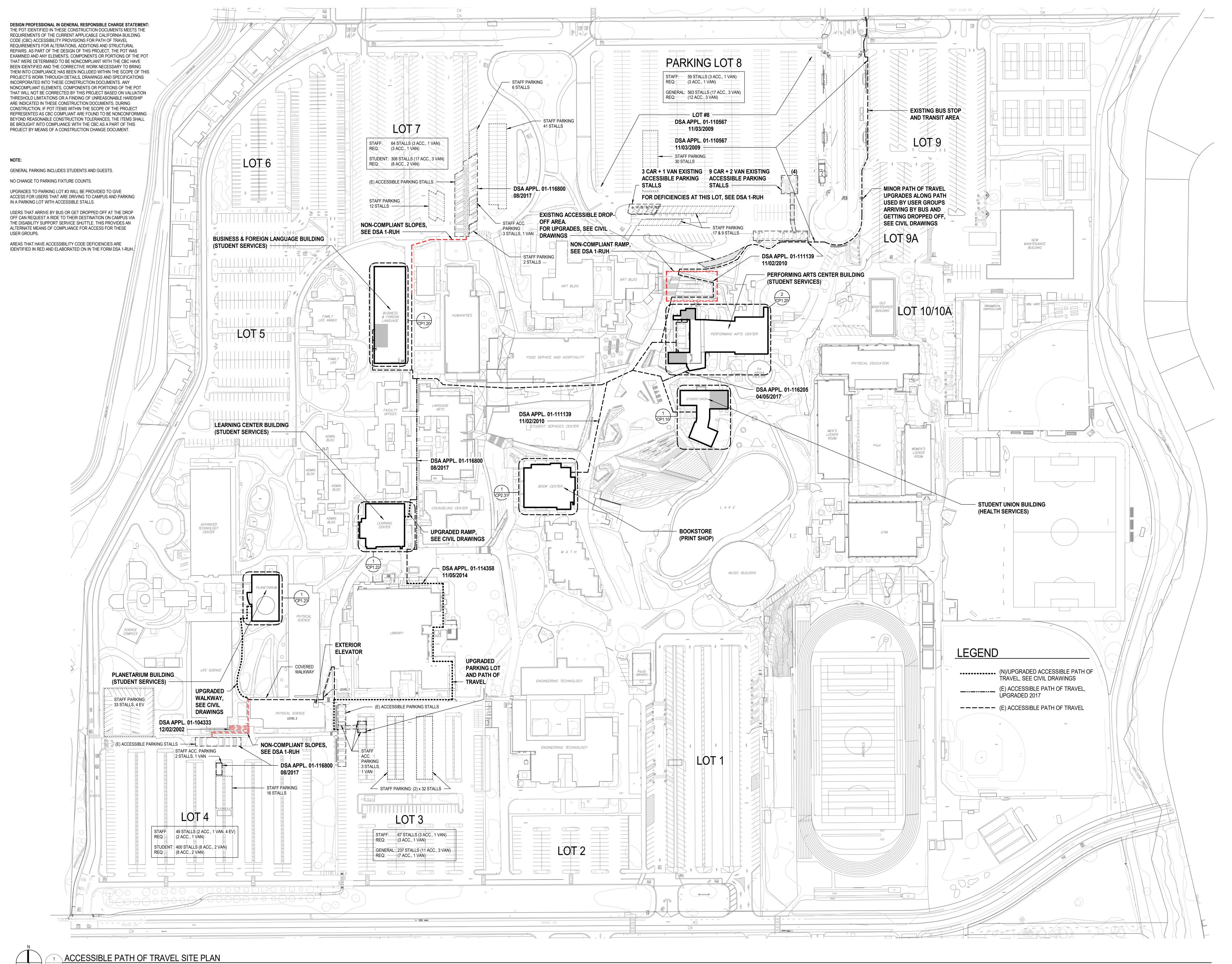
04/22/2022 Revisions 1 04/22/2022 ADDENDUM 1

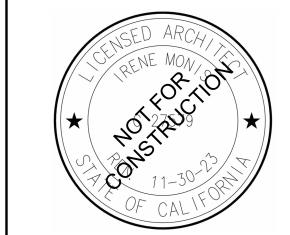
75-21809-00

DLR GROUP PROJECT NUMBER:

CODE ANALYSIS







DSA APP: 01-119997 DSA FILE: 07-C1

Student Service: Shop, 9 Health

ADDENDUM 1

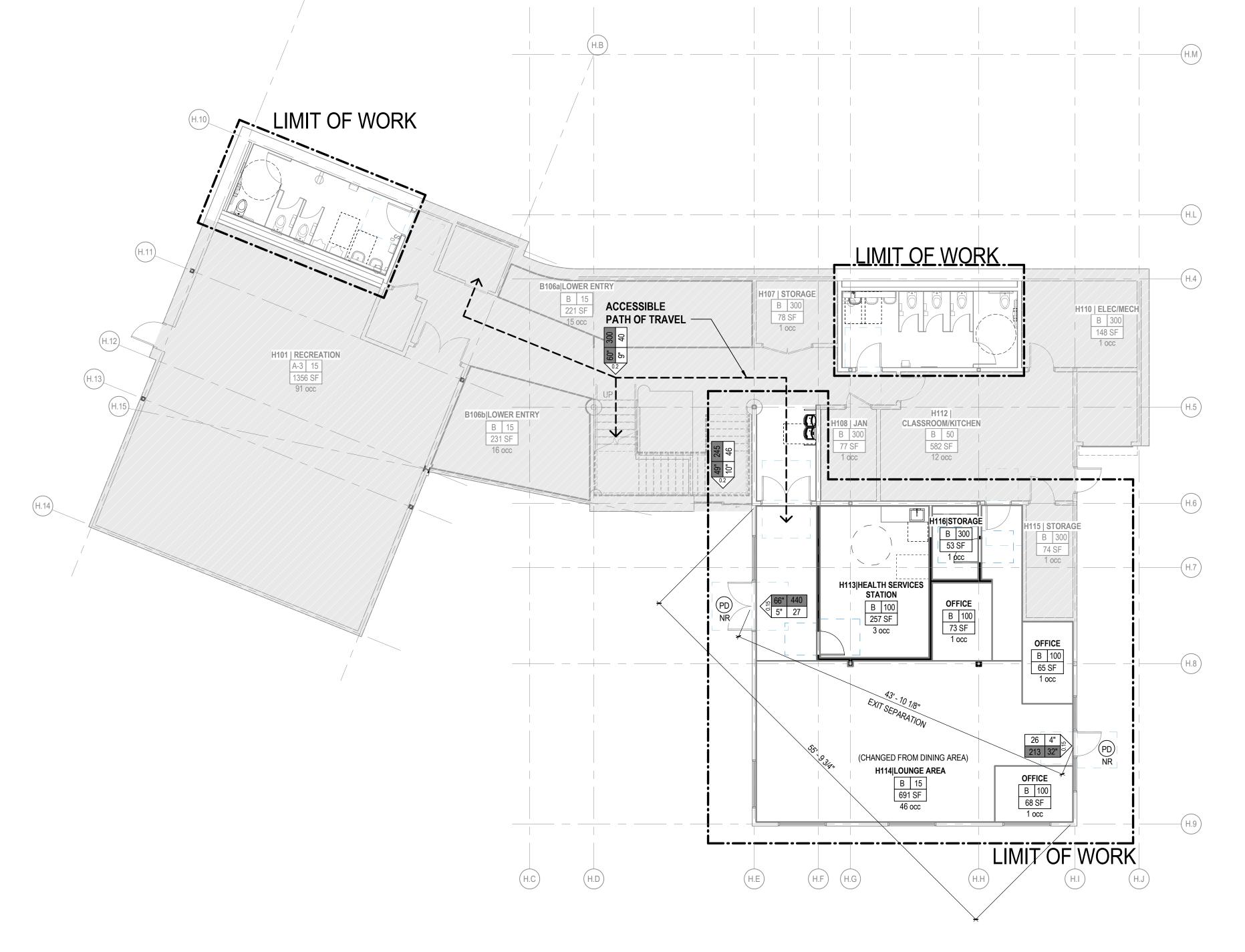
04/22/2022 Revisions 1 04/22/2022 ADDENDUM 1

DLR GROUP PROJECT NUMBER:

75-21809-00

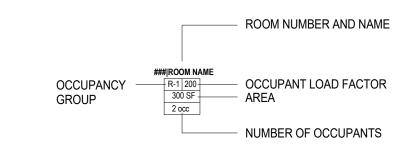
ACCESSIBLE PATH OF TRAVEL

STUDENT UNION BLDG - EXISTING FLOOR PLAN - LEVEL 2 (FOR REFERENCE ONLY)
NO SCALE

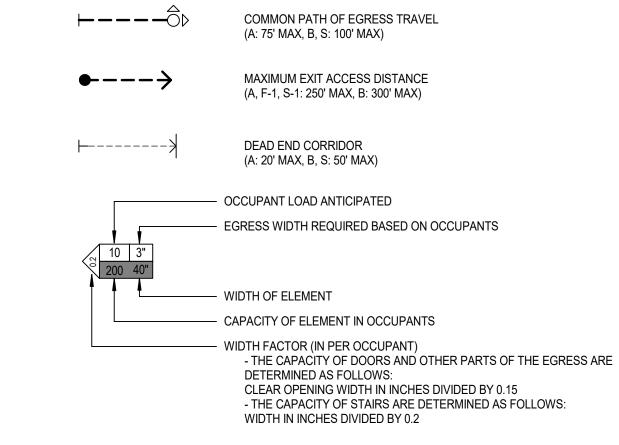


LEGEND

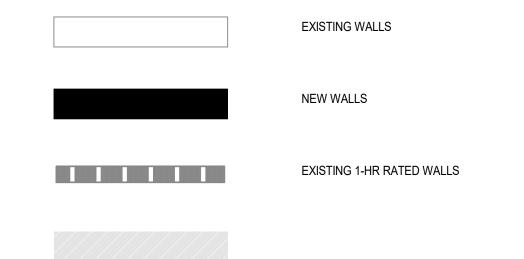
TYPICAL ROOM TAG



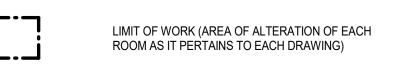
ANNOTATION SYMBOLS











DSA APPROVAL STAMP



DSA APP: 01-119997 DSA FILE: 07-C1

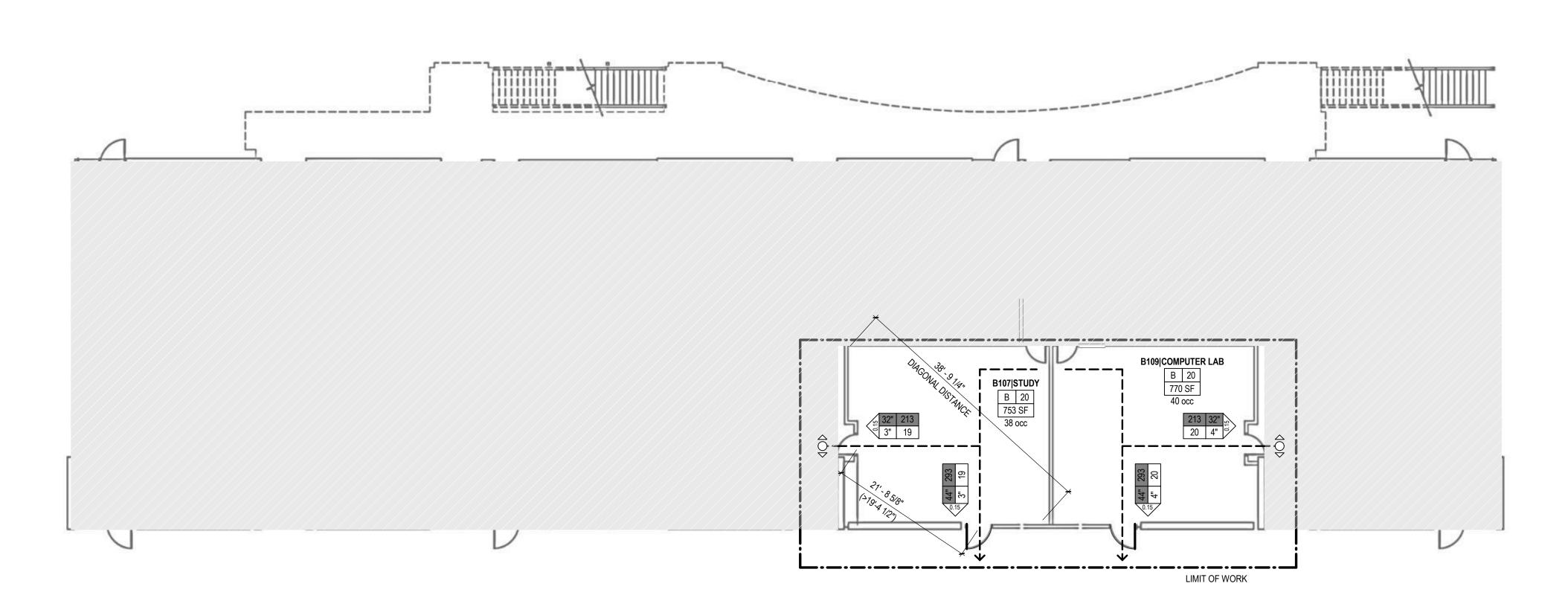
t Shop, Student Health Services

ADDENDUM 1

04/22/2022 Revisions 1 04/22/2022 ADDENDUM 1

DLR GROUP PROJECT NUMBER: 75-21809-00

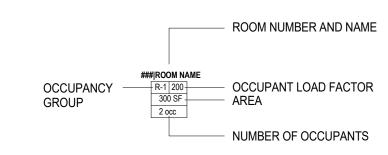
HEALTH SERVICES -STUDENT UNION BLDG -LEVEL 1 CODE PLAN



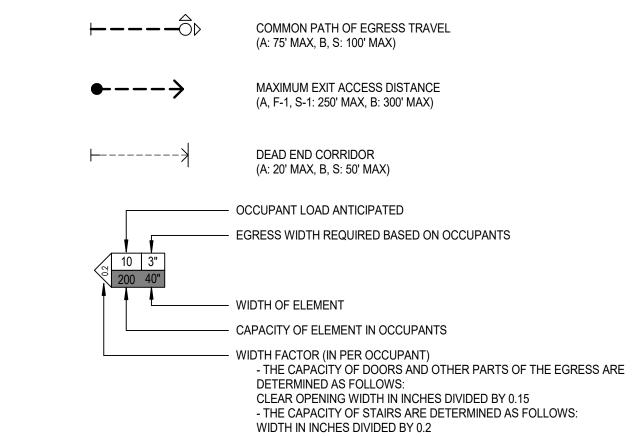
BUSINESS/FOREIGN LANGUAGE BLDG - LEVEL 1 CODE PLAN - STUDENT SERVICES

LEGEND

TYPICAL ROOM TAG



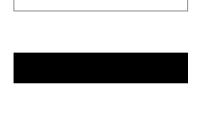
ANNOTATION SYMBOLS







EXISTING WALLS

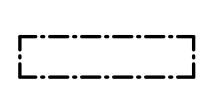




EXISTING 1-HR RATED WALLS



NOT IN SCOPE



LIMIT OF WORK (AREA OF ALTERATION OF EACH ROOM AS IT PERTAINS TO EACH DRAWING)



DSA APP: 01-119997 DSA FILE: 07-C1

DSA APPROVAL STAMP

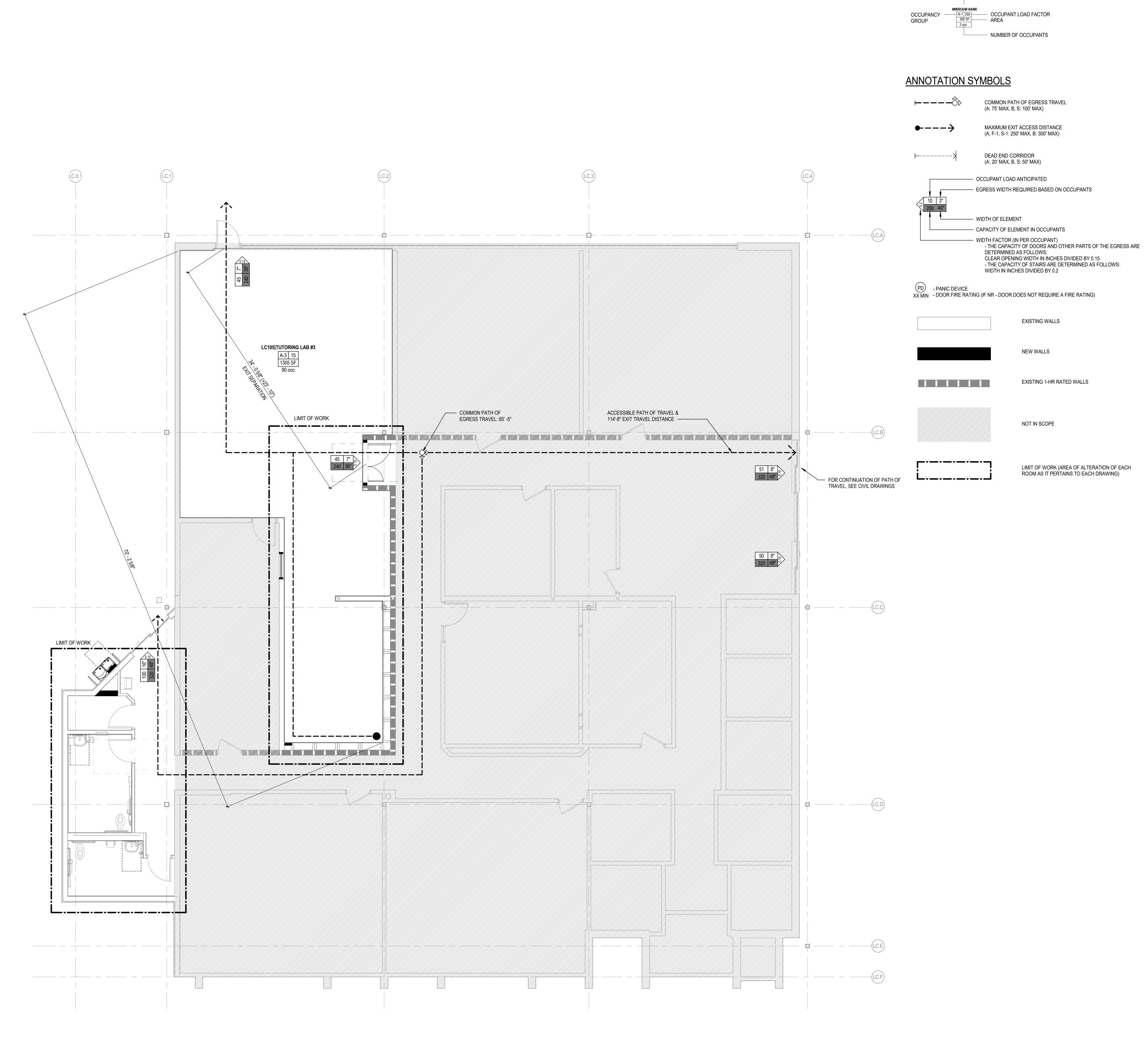
DVC - Print Shop, Student Success, & Health Services Renovation ccccd - Diablo Valley College

ADDENDUM 1

04/22/2022 Revisions 1 04/22/2022 ADDENDUM 1

DLR GROUP PROJECT NUMBER: 75-21809-00

STUDENT SERVICES -BUSINESS/FOREIGN LANGUAGE BLDG AND PERFORMING ARTS CENTER -



LEGEND

TYPICAL ROOM TAG

ROOM NUMBER AND NAME

DSA APP: 01-119997 DSA FILE: 07-C1

DSA APPROVAL STAMP

ADDENDUM 1

04/22/2022

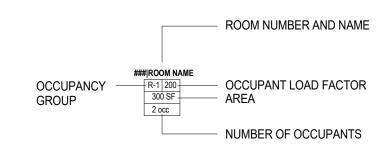
Revisions 1 04/22/2022 ADDENDUM 1

DLR GROUP PROJECT NUMBER: 75-21809-00

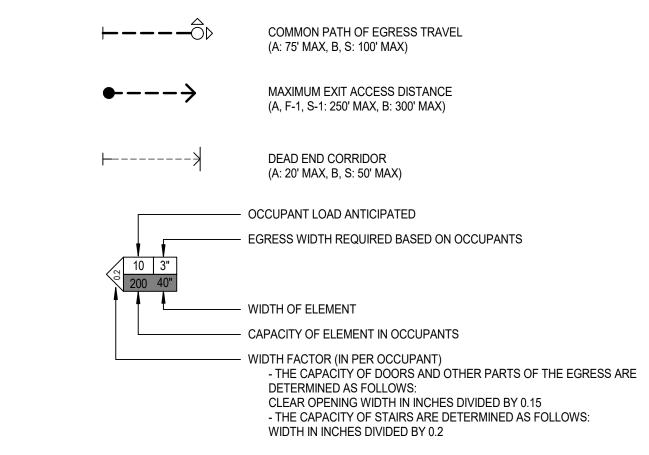
STUDENT SERVICES -LEARNING CENTER - LEVEL 1 CODE PLAN

LEGEND

TYPICAL ROOM TAG

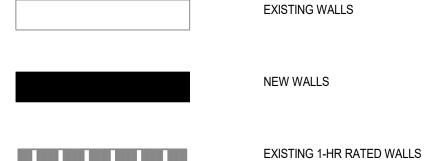


ANNOTATION SYMBOLS



PD - PANIC DEVICE

XX MIN - DOOR FIRE RATING (IF NR - DOOR DOES NOT REQUIRE A FIRE RATING)







NOT IN SCOPE



LIMIT OF WORK (AREA OF ALTERATION OF EACH ROOM AS IT PERTAINS TO EACH DRAWING)

DSA APPROVAL STAMP

DSA APP: 01-119997 DSA FILE: 07-C1

t Shop, Student Health Services

ADDENDUM 1

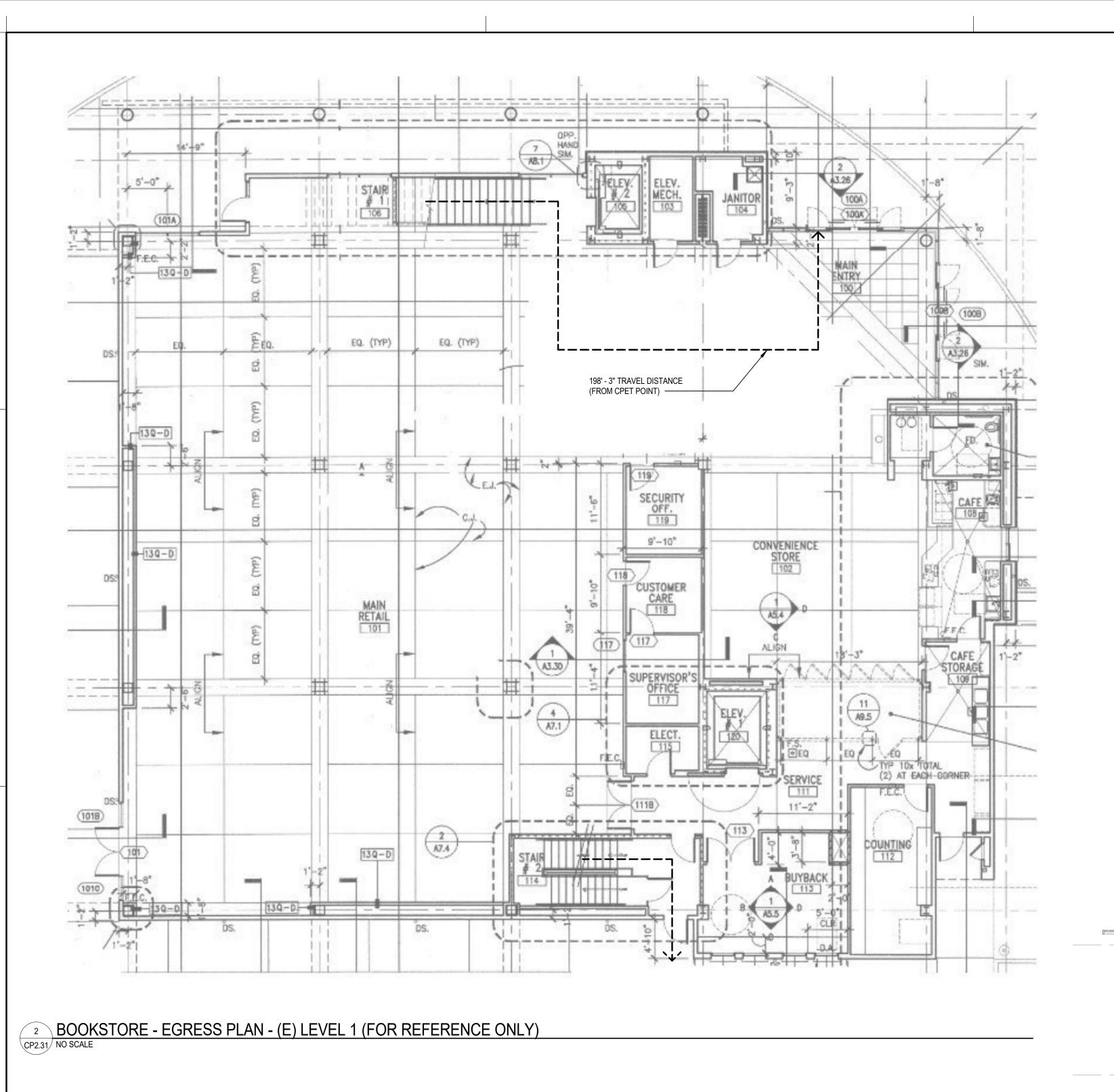
04/22/2022 Revisions 1 04/22/2022 ADDENDUM 1

DLR GROUP PROJECT NUMBER: 75-21809-00

STUDENT SERVICES -PLANETARIUM - LEVEL 1 CODE PLAN

PLANETARIUM - OCCUPANCY & EGRESS PLAN - LEVEL 1 CP1.23 SCALE: 3/16" = 1'-0"

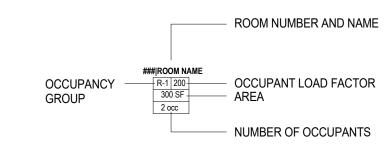
LIMIT OF WORK



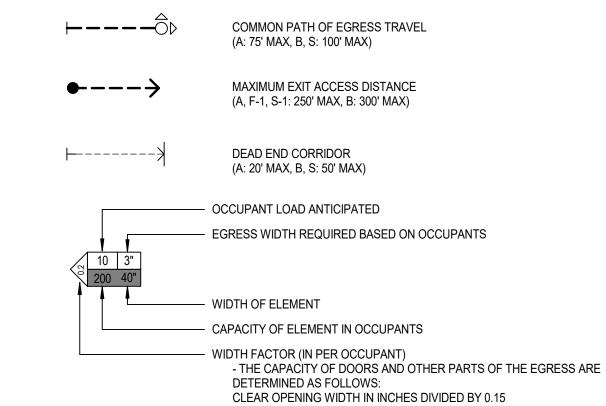
EXISTING 1-HR RATED WALLS NOT IN SCOPE ACCESSIBLE PATH OF TRAVEL AND EGRESS PATH ----LIMIT OF WORK (AREA OF ALTERATION OF EACH ROOM AS IT PERTAINS TO EACH DRAWING) CIRCULATION 1----B207|STORAGE B 300 82 SF 1 occ ACCESSIBLE PATH OF TRAVEL TO/FROM ELEVATOR OPEN TO BELOW 3.8 COMMON PATH OF EGRESS TRAVEL (CPET): 53' - 5" DISTANCE ----_____ OPEN TO BELOW SUITE, NO CHANGE OF OCCUPANCY AND OCC LOAD FACTOR) B206|OFFICE

LEGEND

TYPICAL ROOM TAG



ANNOTATION SYMBOLS



PD - PANIC DEVICE XX MIN - DOOR FIRE RATING (IF NR - DOOR DOES NOT REQUIRE A FIRE RATING)

WIDTH IN INCHES DIVIDED BY 0.2



LIMIT OF WORK

- THE CAPACITY OF STAIRS ARE DETERMINED AS FOLLOWS:

DSA APPROVAL STAMP

DSA APP: 01-119997 DSA FILE: 07-C1

Student n Services Shop, S Health

ADDENDUM 1

04/22/2022 Revisions 1 04/22/2022 ADDENDUM 1

DLR GROUP PROJECT NUMBER: 75-21809-00

PRINT SHOP - BOOKSTORE -LEVEL 2 CODE PLAN



1 BOOKSTORE - OCCUPANCY AND EGRESS PLAN - LEVEL 2

CP2.31 SCALE: 1/8" = 1'-0"

— SLOPE AT 1 VERTICAL: 2 HORIZONTAL, MAX -ABRUPT VERTICAL EDGE 5 THRESHOLD CP3.00 SCALE: 6" = 1'-0"

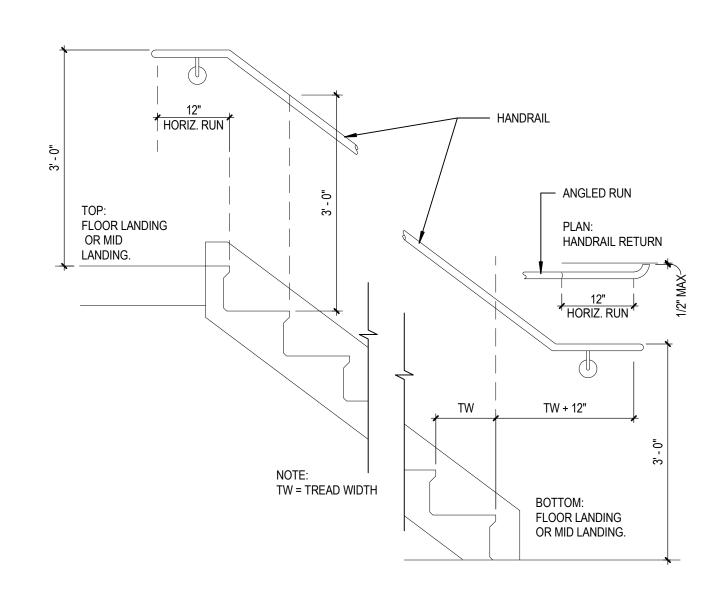
AT EXTERIOR STAIR, PROVIDE AT ALL TREADS AND UPPER APPROACH. AT INTERIOR STAIRS, PROVIDE AT UPPER APPROACH AND LOWER TREADS ____ 1/2" RADIUS MAX. SOLID RISER, TYP. WARNING STRIP AT -UPPER APPROACH AND LOWER TREAD-ALL STAIRS. STRIP TO EXTEND TO FULL WIDTH OF STAIR 1 1/4" MAX.— -WARNING STRIP TO BE CLEARLY CONTRASTING MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE REST OF THE TREADS.

4 DETAIL - ACCESSIBILITY - STAIR TREAD CP3.00 SCALE: 3" = 1'-0"

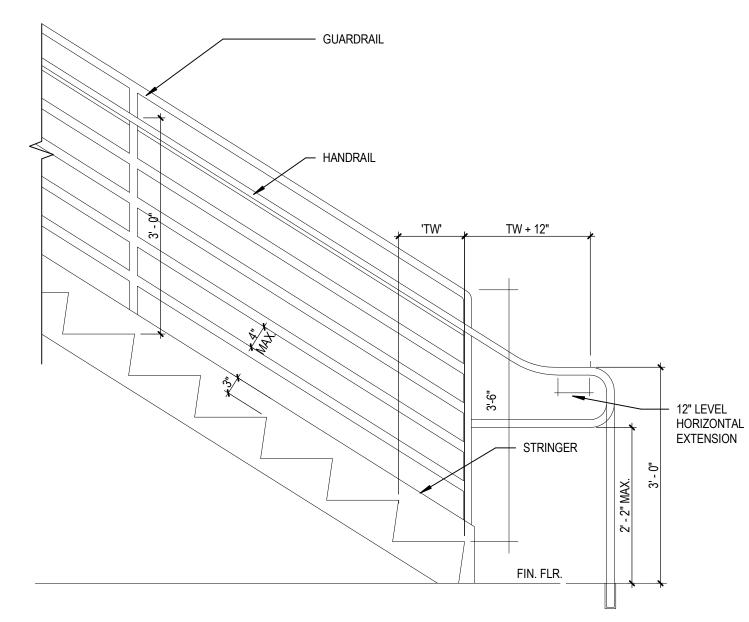
— ACCESSIBLE

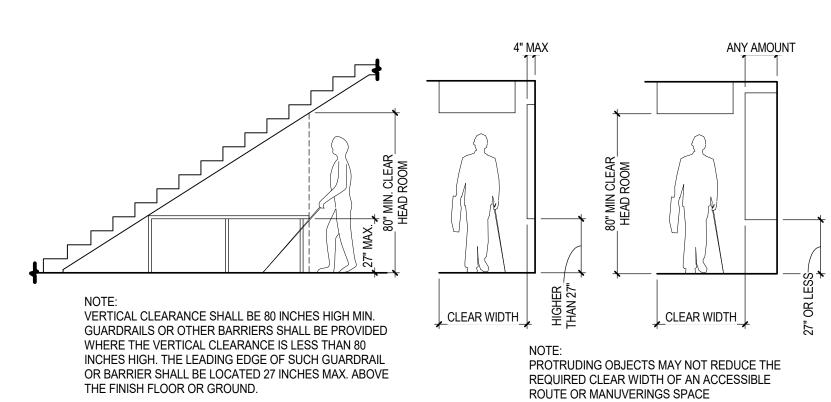
FOUNTAIN W/

BOTTLE FILLER



3 DETAIL - ACCESSIBILITY - STAIRS
CP3.00 SCALE: 3/4" = 1'-0"





ACCESSIBLE ROUTE CLEARANCES

DLR GROUP PROJECT NUMBER: 75-21809-00 ACCESSIBILITY DETAILS -BUILDING



DSA APPROVAL STAMP

DSA APP: 01-119997 DSA FILE: 07-C1

t Shop, Student Health Services

Print ss, &

ADDENDUM 1

1 04/22/2022 ADDENDUM 1

04/22/2022 Revisions

2 DETAIL - ACCESSIBILITY - FREESTANDING STAIRS

CP3.00 SCALE: 3/4" = 1'-0"

A. IF A DOOR HAS A CLOSER, THEN THE TIME REQUIRED TO MOVE THE DOOR FROM AN OPEN POSITION OF 90° B. IF A DOOR HAS A SPRING HINGE, THEN THE TIME REQUIRED TO MOVE THE DOOR FROM AN OPEN POSITION

DSA APP: 01-119997

DSA FILE: 07-C1

Student Services

Shop, 9 Health

Print SS, &

ADDENDUM 1

1 04/22/2022 ADDENDUM 1

04/22/2022 Revisions

75-21809-00 ACCESSIBILITY DETAILS -RESTROOMS

DLR GROUP PROJECT NUMBER:

MOP/BROOM HOLDER

(SURFACE)

2. THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE TYPICAL MOUNTING HEIGHTSAND, WHERE APPLICABLE, TYPICAL MINIMUM OR MAXIMUM CLEARANCES, AND/OR TYPICAL MOUNTING CONFIGURATIONS FOR A VARIETY OF ITEMS.

ATTENTION: THIS SHEET MAY ILLUSTRATE ITEMS OR CONFIGURATIONS WHICH DO NOT OCCUR AS PART OF THE WORK OF THIS PROJECT. REFER TO THE PLANS, ELEVATIONS, SECTIONS, DETAILS, AND SCHEDULES TO DETERMINE WHICH ITEMS AND CONFIGURATIONS APPLY TO THE WORK OF THIS PROJECT.

3. THE HEIGHTS, CLEARANCES, AND CONFIGURATIONS SHOWN ON THIS SHEET ARE TYPICAL AND SHALL APPLY TO ALL INSTANCES OF THE ITEM (OR GROUP OF ITEMS) SHOWN UNLESS SPECIFICALLY NOTED OR DIMENSIONED OTHERWISE. THE TYPICAL DIMENSIONS SHOWN ON THIS SHEET TAKE PRECEDENCE OVER TYPICAL DIMENSIONS SHOWN ON THE ELECTRICAL OR MECHANICAL DRAWINGS FOR THE MOUNTING OF ITEMS INSTALLED BY THE ELECTRICAL OR MECHANICAL TRADES.

4. SPECIAL OR NON-TYPICAL MOUNTING HEIGHTS OCCUR ONLY WHERE INDICATED BY ANNOTATED SYMBOLS; BY KEY NOTES; BY NOTES ON PLANS, ELEVATIONS, OR DETAILS; OR BY UNIQUE DIMENSIONS ON ELEVATIONS OR DETAILS.

5. FOR ADDITIONAL INFORMATION REGARDING THE PRECEDENCE OF DRAWINGS FOR DETERMINING THE EXACT LOCATION OF EACH EXPOSED PART OF THE WORK, REFER TO THE "ARCHITECTURAL GENERAL NOTES" AND TO THE "TYP RULES FOR DETERMINING MOUNTING HEIGHTS AND LOCATIONS" - SEE THE INDEX OF DRAWINGS FOR SHEET NUMBERS.

6. TYPICAL MOUNTING HEIGHTS FOR ADDITIONAL ITEMS NOT SHOWN ON THIS SHEET MAY BE ILLUSTRATED BY OTHER SHEETS. REFER TO THE INDEX OF DRAWINGS FOR ADDITIONAL INFORMATION.

7. MOUNTING CONFIGURATION DIAGRAMS ARE ELEVATIONS WHICH ILLUSTRATE TYPICAL RULES GOVERNING THE RELATIONSHIPS BETWEEN, AND PLACEMENT OF, ITEMS WHICH OCCUR IN GROUPS OF RELATED ITEMS (SUCH AS TOILET ACCESSORIES) OR IN CLOSE PROXIMITY TO OTHER PARTS OF THE WORK (SUCH AS SWITCHES AND DOOR FRAMES). UNLESS OTHER MOUNTING CONFIGURATIONS ARE SPECIFICALLY NOTED, DIMENSIONED, OR ELEVATED, THE TYPICAL RELATIONSHIPS, ARRANGEMENTS, AND DIMENSIONS SHOWN BY THE TYPICAL CONFIGURATION DIAGRAMS APPLY THROUGHOUT THE WORK OF THIS PROJECT.

8. TYPICAL MOUNTING CONFIGURATIONS FOR ADDITIONAL GROUPINGS NOT SHOWN ON THIS SHEET MAY BE SHOWN ON OTHER SHEETS. REFER TO THE INDEX OF DRAWINGS FOR ADDITIONAL INFORMATION.

9. MOUNTING HEIGHTS, DIMENSIONS, CLEARANCES, AND ACCESS REQUIREMENTS FOR TOILET ACCESSORIES SHOWN ON THIS SHEET ARE BASED UPON SPECIFIC MANUFACTURERS AND MODELS AS INDICATED BY THE "TOILET ACCESSORY SCHEDULE." WHEN SIMILAR ACCESSORIES OF OTHER SPECIFIED AND ACCEPTABLE MANUFACTURERS (IF ANY) ARE UTILIZED, MOUNTING HEIGHTS, DIMENSIONS, CLEARANCES, AND ACCESS REQUIREMENTS OF THE SIMILAR ACCESSORIES MAY VARY FROM THOSE SHOWN. WHEN SIMILAR ACCESSORIES ARE UTILIZED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION REQUIRED TO ACHIEVE THE SAME AESTHETIC AND FUNCTIONAL DESIGN INTENT ILLUSTRATED BY THAT SHOWN ON THE DRAWINGS.

DIRECTION BUTTONS SHALL BE A MINIMUM OF 3/4" IN SIZE, RAISED, FLUSH, OR RECESSED. VISUAL INDICATION SHALL CEILING SYSTEM - SEE BE PROVIDED TO SHOW EACH CALL REGISTERED AND REFLECTED CEILING PLAN EXTINGUISHED WHEN CALL IS ANSWERED. 2019 CBC 11B-407.2.1 - ALT. LOCATION OF EXIT SIGN ADDITIONAL SWITCHES (CEILING MOUNTED ADJACENT FLOOR DESIGNATION SHALL BE VISIBLE BY HARDWARE MANUFACTURER WHERE OCCURS ----& PERPENDICULAR TO DOOR), FROM WITHIN THE CAR AND THE ELEVATOR LOBBY. DESIGNATIONS SHALL BE ON A CONTRASTING BACKGROUND 2 INCHES - TYP. LOCATION OF EXIT SIGN HIGH AND RAISED 0.030 INCH. (WALL-MOUNTED ABOVE & 2019 CBC 11B-407.2.3.1 PARALLEL TO DOOR), S.E.D. SEE SIGNAGE DRAWINGS EXIT DOOR WITH PANIC HARDWARE (SINGLE-LEAF & DOUBLE-LEAF SIM.) — DOOR FRAME — SELF-LUMINOUS FLOOR-LEVEL EXIT SIGN, S.E.D. CLOCK OR MANUAL LIGHT S[']TANDARD HIGH DESK INTERCOM TELEPHONE THERMOSTAT SWITCH AT AUDIBLE & FIREMAN'S RAISED & BRAILLE **ELEVATOR EMERGENCY EGRESS DOORS HARDWARE** CLOCK OUTLET FIRE ALARM SWITCH DUPLEX DUPLEX INTERCOM STATION OR DATA FIRE ALARM PURPOSE BOX TELEPHONE DOOR OR CASED VISUAL FIRE ELEVATOR FLOOR LEVEL TELEPHONE CALL BUTTON AND SIGNAGE LOCATION OUTLET OUTLET OUTLET OUTLET OUTLETS & OUTLET MAX. B/W DOOR OPENING ALARM **PULL STATION** JACK DESIGNATION FRAME & SIGN STANDARD (NOT TO EXCEED _ ALT. FLOOR-LEVEL 5' - 0" FROM EXIT) **EXIT SIGN LOCATION** DOOR FRAME OR CASED OPENING FRAME. OUTLET OR SIMILAR WHEN ADJ **ROBE HOOK** CHALKBOARD, FULL LENGTH FULL LENGTH ELECTRICAL ROBE HOOK WALL-MOUNTED EXIT FIRE EXTINGUISHER/ WALL ACTUATOR BOLLARD-MOUNTED CABINET PANEL BOARD TACKBOARD, OR SIGN AT EXIT DOOR (WALL-MTD) (DOOR-MTD) (PROTRUDING NOT DRY MARKER BOARD NOTE: 48" MAX. A.F.F. TO MORE THAN 4") TOP OF F.E. HANDLE

SEAT COVER

DISPENSER

NAPKIN

DISPOSAL

TOILET PAPER (NON-ACCESSIBLE

STALLS, SURFACE)

FEMININE PRODUCT

VENDOR

(RECESSED)

WASTE RECEPTACLE

(SURFACE)

(SURFACE)

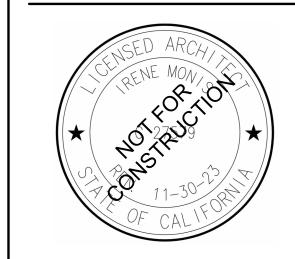
DISPENSER

(SURFACE)

NAPKIN

DISPENSER

DSA APPROVAL STAMP



DSA FILE: 07-C1

DSA APP: 01-119997

Student n Services Shop, S Health Print Ss, &

ADDENDUM 1

04/22/2022 Revisions 1 04/22/2022 ADDENDUM 1

DLR GROUP PROJECT NUMBER: 75-21809-00

ACCESSIBILITY DETAILS -TYPICAL MOUNTING HEIGHTS



ABBREVIATIONS

DESCRIPTION

AGGREGATE BASE

ASPHALT CONCRETE

BEGINNING OF CURB RETURN

CURB, GUTTER, AND SIDEWALK

AREA DRAIN

BENCHMARK

BACK OF CURB

BACK OF WALK

CENTERLINE

CATCH BASIN

CLEANOUT

DIAMETER

DRAWING

ELEVATION

EASEMENT

EACH WAY

EXISTING

FLOWLINE

GROUND GRADE BREAK

HIGH POINT

LAMP HOLE

LOW POINT

MAXIMUM

LEFT

INSIDE DIAMETER

INSPECTOR ON RECORD

LIME TREATED SUB-BASE

MERCED IRRIGATION DISTRICT

CONCRETE ELEVATION

CONCRETE ELEVATION

PAVEMENT ELEVATION

TOP OF CURB ELEVATION

FLOW LINE ELEVATION

FLOW LINE ELEVATION

GRADE ELEVATION

GRADE ELEVATION

BASEROCK ELEVATION

TOP OF CURB ELEVATION

TOP OF CURB ELEVATION

BASEROCK ELEVATION

PAVEMENT ELEVATION

PROPERTY & R/W LINE

SANITARY SEWER LINE

FIRE HYDRANT SERVICE LINE

TELECOMMUNICATION LINE

STORM DRAIN LINE

ELECTRICAL LINE

JOINT TRENCH

CATCH BASIN

STORM DRAIN INLET

UTILITY CLEANOUT

GATE VALVE

SITE LIGHT

WOOD FENCE

FIRE HYDRANT

UTILITY POLE

ANCHOR GUY

SIGN

TREE

BOLLARD

CHAIN LINK FENCE

BARBED WIRE FENCE

BACKFLOW PREVENTER

ELECTRICAL BOX

WATER METER

MAINTENANCE HOLE

WATER LINE

GAS LINE

GROUND CONTOUR

FASEMENT

TOP OF WALL ELEVATION

TOP OF CURB ELEVATION

MAINTENANCE HOLE

FINISHED GRADE

FIRE HYDRANT

FACE OF CURB

CURB AND GUTTER

CONSTRUCTION JOINT

CITY OF PLEASANT HILL

EXISTING BACK OF WALK

EDGE, EXISTING PAVEMENT

FIRE DEPARTMENT CONNECTION

END OF CURB RETURN

EXISTING GROUND

DUCTILE IRON PIPE

CORRUGATED METAL PIPE

BLOWOFF

ACRYLONITRILE-BUTADIENE-STYRENE

ABBREVIATION

NRCP

NTS

PCC

PRC

SDMH

SJWC

SSMH

STA

STD

THRU

PROPOSED

11.43C

11.93TC 11.43FL

11.55G

12.05G

12.05BR

11.30BR

12.05TC 11.55P

50.0

6"SS

12"SD

4"W

6"FH

_____ E ____

______G___

----- TELE -----

_____ JT ____

—___x____x____x

ABBREVIATION

BOC

C & G

CMP

COSJ

DWG

EBOW

ECR

ESMT

LTSB

MID

LEGEND

EXISTING

11.43EC

12.05EP

11.43EFL

12.05EFL

____ 50.0 -_--

6"SS

4"W

6"FH

____E

----- TELE ----

____ x ____ x ___ x ___

_____ JT ____

C,G, & SW

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING FROM DAMAGE ALL EXISTING IMPROVEMENTS THAT ARE TO REMAIN. SUCH IMPROVEMENTS THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT HIS EXPENSE.

ALL TRENCH EXCAVATION SHALL BE IN ACCORDANCE WITH DISTRICT STANDARD SPECIFICATIONS.

4. EXCAVATION OF 5 FEET OR MORE IN DEPTH WILL REQUIRE AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY.

5. THE CONTRACTOR SHALL DEMOLISH, EXCAVATE, REMOVE AND DISPOSE OF ALL EXISTING CONCRETE CURB, GUTTER OR SIDEWALK, ASPHALT CONCRETE PAVING, AND DELETERIOUS MATERIAL AS REQUIRED TO CONSTRUCT THE CONTRACT WORK. ALL SUCH EXCESS MATERIAL GENERATED SHALL BE DISPOSED OF FROM THE SITE BY THE CONTRACTOR.

6. THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FOR ANY WORK DONE WITHIN THE CITY RIGHT-OF-WAY FROM THE CITY OF PLEASANT HILL BUILDING DEPARTMENT, AND NOTIFY THE CITY 48 HOURS IN ADVANCE OF STARTING ANY WORK TO BE ACCEPTED FOR OWNERSHIP AND MAINTENANCE BY THE CITY OF PLEASANT HILL.

. EXISTING UTILITIES ARE SHOWN AS THEY ARE BELIEVED TO EXIST. THE OWNER AND THE ENGINEER DO NOT ACCEPT RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL HAVE EACH UTILITY COMPANY ACCURATELY LOCATE IN THE FIELD THEIR MAINS AND SERVICE LINES IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES.

ATTENTION IS CALLED TO: SECTION 1540 (A) (1) OF THE CONSTRUCTION SAFETY ORDERS (TITLE 8 CALIFORNIA ADMINISTRATION CODE SECTION 1540), ISSUED BY THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD PURSUANT TO THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT OF 1973, AS AMENDED, WHICH STATES:

"PRIOR TO OPENING AN EXCAVATION, EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATION I.E., SEWER, WATER, FUEL, ELECTRIC LINES, ETC., WILL BE ENCOUNTERED AND, IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH AN INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING AND WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION."

9. THE CONTRACTOR SHALL CHECK WITH THE UTILITY COMPANIES AND VERIFY ALL UTILITY LOCATIONS. IT SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF HIS CONTRACT. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICES TO THE DEVELOPMENT.

10. WHENEVER EXISTING PAVEMENT IS BROKEN OR CUT DURING THE INSTALLATION OF THE WORK COVERED BY THESE PLANS AND SPECIFICATIONS, THE PAVEMENT SHALL BE REPLACED WITH PAVEMENT MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL PAVING. THE FINISHED PAVEMENT SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER.

11. PAYMENT FOR PAVEMENT WILL BE MADE FOR THE AREAS SHOWN ON THE PLANS. REPLACEMENT OF PAVEMENT WHICH IS BROKEN OR CUT IN THE INSTALLATION OF THE IMPROVEMENTS COVERED BY THESE PLANS AND SPECIFICATIONS, AND WHICH LIES OUTSIDE OF SAID AREAS, SHALL BE INCLUDED IN THE STREET CONTRACTOR'S UNIT PRICE FOR PAVEMENT, AND NO ADDITIONAL PAYMENT SHALL BE MADE FOR SUCH

12. THE CONTRACTOR SHALL EXPOSE EXISTING STORM DRAINS, WATER MAINS, AND SANITARY SEWERS WHERE CONNECTIONS AND CROSSINGS ARE TO BE MADE SO EXISTING FLOWLINES AND LOCATIONS CAN BE VERIFIED BEFORE THE START OF CONSTRUCTION.

13. THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

14. THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE CITY OF PLEASANT HILL FOR USE OF WATER FROM PUBLIC FIRE HYDRANTS FOR CONSTRUCTION PURPOSES. THE PERMIT SHALL BE APPROVED BY THE CITY OF PLEASANT HILL WATER ADMINISTRATION.

15. THE PROPERTY OWNERS, DEVELOPERS, AND/OR SUCCESSORS IN INTEREST SHALL COMPLY WITH THE PROVISIONS OF THE CALIFORNIA GENERAL CONSTRUCTION ACTIVITY STORM WATER PERMIT AND STATE WATER RESOURCES CONTROL BOARD.

16. DUST CONTROL SHALL BE PERFORMED AT ALL TIMES, AT THE CONTRACTORS' EXPENSE, TO MINIMIZE ANY DUST NUISANCE AND SHALL BE IN ACCORDANCE WITH SECTION 10 OF CALTRANS STANDARD SPECIFICATIONS.

17. THE CONTRACTOR SHALL FURNISH, INSTALL OPERATE AND MAINTAIN ALL MACHINERY, APPLIANCES AND EQUIPMENT TO MAINTAIN ALL EXCAVATIONS FREE FROM WATER DURING CONSTRUCTION, AND SHALL DEWATER AND DISPOSE OF THE WATER SO AS TO NOT CAUSE INJURY TO PUBLIC OR PRIVATE PROPERTY, OR TO CAUSE A NUISANCE OR MENACE TO THE PUBLIC. THE DEWATERING SYSTEM SHALL BE INSTALLED AND OPERATED SO THE GROUNDWATER LEVEL OUTSIDE THE EXCAVATION IS NOT REDUCED TO THE EXTENT WHICH WOULD CAUSE DAMAGE OR ENDANGER ADJACENT STRUCTURES OR PROPERTY. ALL COSTS FOR DEWATERING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ALL PIPE CONSTRUCTION. THE STATIC WATER LEVEL SHALL BE DRAWN DOWN A MINIMUM OF 1 FOOT BELOW THE BOTTOM OF EXCAVATION OF ANY FILL TO THE SPECIFIED DENSITY. DISPOSAL OF WATER SHALL BE IN ACCORDANCE WITH THE APPROVED SWPPP AND SHALL NOT DAMAGE PROPERTY, CREATE A PUBLIC NUISANCE OR VIOLATE THE LAW. THE CONTRACTOR SHALL HAVE ON HAND, PUMPING EQUIPMENT AND MACHINERY IN GOOD WORKING CONDITION FOR EMERGENCIES AND SHALL HAVE WORKMEN AVAILABLE FOR ITS OPERATION. THE DEWATERING SYSTEM SHALL OPERATE CONTINUOUSLY UNTIL BACK-FILL HAS BEEN COMPLETED TO 1 FOOT ABOVE THE NORMAL STATIC GROUNDWATER LEVEL.

18. ANY VOIDS LEFT BY THE REMOVAL OF UNDERGROUND UTILITIES OR OTHER BURIED OBJECTS SHALL BE CLEANED OF ALL LOOSE SOILS AND SHALL BE PROPERLY BACKFILLED WITH ENGINEERED FILLED THAT THE OWNER APPROVES.

19. ENGINEERED FILL SHALL BE PLACED IN HORIZONTAL LAYERS A MAXIMUM OF 8 INCHES IN LOOSE THICKNESS AND BE COMPACTED TO A MINIMUM OF 90 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY THE OWNER'S SOIL ENGINEER.

20. SITE CONCRETE ULTIMATE COMPRESSIVE STRENGTH SHALL BE MIN. OF 3,000 PSI FOR SITE CONCRETE. STRUCTURAL CONCRETE SHALL REFER TO STRUCTURAL PLANS AND SPECIFICATIONS.

21.1. ULTIMATE COMPRESSIVE STRENGTH SHALL BE MIN. OF 3,000 PSI FOR SITE CONCRETE. 21.2. REINFORCING BARS: DEFORMED BILLET STEEL BARS, ASTM A-615, GRADE 40 OR 60, CONTAINING A MINIMUM OF 70% TOTAL RECYCLED CONTENT, CLEAN AND FREE FROM RUST, SCALE, OR COATING THAT WILL REDUCE BOND.

21.3. SMOOTH DOWELS FOR JOINTS: ASTM A615, GRADE 40 SMOOTH, BILLET-STEEL BARS, SHOP PAINTED WITH IRON-OXIDE ZINC-CHROMATE PRIMER.

GRADING NOTES

1. GRADING AND LAND STABILIZATION SHALL INCLUDE COST OF REMOVING FROM THE SITE ALL STRIPPED VEGETATION, DEBRIS, STRUCTURES, POWER POLES, EXISTING PAVEMENT, TREES, AND OTHER DELETERIOUS MATERIALS.

2. STOCKPILES OF EXISTING DELETERIOUS MATERIAL SHALL BE HAULED OFF AND DISPOSED OF BY

3. WHEN GRADING OCCURS DURING THE WET SEASON (OCTOBER 1 THROUGH APRIL 15), THE CONTRACTOR SHALL CONDUCT AND DOCUMENT SELF ON-SITE INSPECTIONS DURING RAIN EVENTS EXCEEDING 0.1 INCH OVER 24 HOUR PERIOD. IN ADDITION, SUSCEPTIBLE SLOPES SHALL BE COVERED.

5. NO FILL TO BE PLACED UNTIL DSA OR THIRD PARTY INSPECTOR HAS INSPECTED AND APPROVED THE BOTTOM EXCAVATION.

6. ALL FILL SHALL BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 90% UNLESS OTHERWISE NOTED ON THE PLANS. IN THE SPECIFICATIONS. OR IN THE GEOTECHNICAL REPORT. LANDSCAPE AREAS SHALL BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 85%.

7. TEMPORARY EROSION CONTROL TO BE INSTALLED DURING CONSTRUCTION.

FLOOD DESIGNATION

FLOOD ZONE DESIGNATION: ZONE X FLOOD INSURANCE RATE MAP (FIRM) PANEL DESIGNATION: 0279F

EFFECTIVE DATE ON FIRM: JUNE 16, 2009

BASE FLOOD ELEVATION (BFE): UNDETERMINED APPLICABLE COMMUNITY ORDINANCE SECTION: CITY OF PLEASANT HILL

SITE ACCESSIBILITY GENERAL NOTES

DESCRIPTION

NON-REINFORCED CONCRETE PIPE

POINT OF COMPOUND CURVATURE

POINT OF REVERSE CURVATURE

PUBLIC UTILITY EASEMENT

REINFORCED CONCRETE PIPE

STORM DRAIN MAINTENANCE HOLE

SANITARY SEWER MAINTENANCE HOLE

PLEASANT HILL WATER COMPANY

POLYVINYL CHLORIDE

PROPERTY LINE

RIGHT-OF-WAY

ROLL-CURB

ROOF DRAIN

RAILROAD

RIGHT

RADIUS POINT

STORM DRAIN

STREET LIGHT

SIDEWALK

SHEET

STATION

STANDARD

TOP OF CURB

TOP OF WALL

THROUGH

TYPICAL

VERTICAL

WATER

WEST

SOUTH

NORTH

PLUS OR MINUS

EAST

TRAFFIC INDEX

WEAKENED PLANE

SANITARY SEWER

RAIN WATER LEADER

RADIAL OR RADIUS

NUMBER

NOT TO SCALE

OUTSIDE DIAMETER

POINT OF CURVATURE

POINT OF TANGENCY

POWER POLE

ON CENTER

PAVEMENT

WALKING SURFACES

1. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48. EXCEPTION: THE RUNNING SLOPE OF SIDEWALKS

SHALL NOT EXCEED THE GENERAL GRADE ESTABLISHED FOR THE ADJACENT STREET OR HIGHWAY.

2. FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT. CHANGES IN LEVEL SHALL COMPLY WITH SECTION 11B-303. 3. CHANGES IN LEVEL BETWEEN 1/4 INCH HIGH MAX. SHALL BE PERMITTED TO BE VERTICAL AND WITHOUT

EDGE TREATMENT. CHANGES IN LEVEL BETWEEN 1/4 INCH HIGH MIN. AND 1/2 INCH HIGH MAX. SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. CHANGES IN LEVEL GREATER THAN 1/2 INCH HIGH SHALL BE RAMPED, AND SHALL COMPLY WITH SECTION 11B-405 OR 11B-406. (11B-303.2,11B-303.3,11B-303.4). 4. ABRUPT CHANGES IN LEVEL EXCEEDING 4" OTHER PEDESTRIAN WAYS AND ADJACENT SURFACES OR FEATURES SHALL BE IDENTIFIED BY WARNING CURBS AT 6 INCHES IN HEIGHT ABOVE THE WALK OR

SIDEWALK SURFACE. (11B-303.5) 5. EXCEPT AS PROVIDED IN SECTIONS 11 B-403.5.2 AND 11 B-403.5.3, THE CLEAR WIDTH OF WALKING SURFACES SHALL BE 36 INCHES MIN. EXCEPTIONS:

A) THE CLEAR WIDTH SHALL BE REDUCED TO 32 INCHES MIN. FOR A LENGTH OF 24 INCHES MAX. PROVIDED THAT REDUCED WIDTH SEGMENTS ARE SEPARATED BY SEGMENTS THAT ARE 48 INCHES LONG MIN AND 36 INCHES WIDE MIN B) THE CLEAR WIDTH FOR WALKING SURFACES IN CORRIDORS SERVING AN OCCUPANT LOAD OF 10

OR MORE SHALL BE 44 INCHES MIN. C) THE CLEAR WIDTH FOR SIDEWALKS AND WALKS SHALL BE 48 INCHES MIN. D) THE CLEAR WIDTH FOR AISLES SHALL BE 36 INCHES MIN IF SERVING ELEMENTS ON ONLY ONE

SIDE AND 44 INCHES MIN. IF SERVING ELEMENTS ON BOTH SIDES. 6. AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN 60 INCHES SHALL PROVIDE PASSING SPACES AT INTERVALS OF 200 FEET MAX. PASSING SPACES SHALL BE EITHER: A SPACE 60 INCHES MIN. BY 60 INCHES MIN. OR, AN INTERSECTION OF TWO WALKING SURFACES PROVIDING A T-SHAPED SPACE WHERE THE BASE

AND ARMS OF THE T- SHAPED SPACE EXTEND 48 INCHES MIN. BEYOND THE INTERSECTION. (11 B-403.5.3) 7. ALL WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE RESTING AREAS 60 INCHES IN LENGTH, AT INTERVALS OF 400 FEET MAX. THE REST SHALL BE AT LEAST AS WIDE AS THE WALK. THE SLOPE OF THE

RESTING AREA IN ALL DIRECTIONS SHALL BE 1:48 MAX. (11B-403.7) 8. OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1/2 INCH DIAMETER. ELONGATED OPENING SHALL BE PLACED SO THAT THE LONG DIMENSION IS

PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL. (11B-302.3). 9. CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD, OR BACKING OR NO CUSHION OR PAD. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, LEVEL CUT/UNCUT PILE TEXTURE. PILE HEIGHT SHALL BE 1/2 INCH MAX. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EDGE. (11B-302.2).

CURB RAMP IS DEFINED AS "A SLOPING PEDESTRIAN WAY, INTENDED FOR PEDESTRIAN TRAFFIC, WHICH PROVIDES ACCESS BETWEEN A WALK OR SIDEWALK AND A SURFACE LOCATED ABOVE OR BELOW AN ADJACENT

CURB FACE." (202) 1. CURB RAMPS MAY BE PERPENDICULAR, PARALLEL, OR A COMBINATION OF PERPENDICULAR AND PARALLEL. RAMP SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1"12. WHERE PROVIDED, CURB RAMP FLARES SHALL NOT BE STEEPER THAN 1:10. (11 B-406.1, 11 B-406.2)

2. THE RUNNING SLOPE OF PARALLEL CURB RAMP SEGMENTS SHALL BE IN-LINE WITH THE DIRECTION OF THE SIDEWALK TRAVEL. RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12. A TURNING SPACE 48 INCHES MIN. SHALL BE PROVIDED AT THE BOTTOM OF THE CURB RAMP. THE SLOPE OF THE TURNING SPACE IN ALL DIRECTIONS SHALL BE 1:48 MAX. (11B-406.3)

BLENDED TRANSITIONS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:20.(11B-406.4) 4. CURB RAMPS AND THE FLARES SIDES SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO THE VEHICULAR TRAFFIC LANES, PARKING SPACES, OR PARKING ACCESS AISLES. CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES.

THE CLEAR WIDTH OF CURB RAMP RUNS (EXCLUDING ANY FLARED SIDES), BLENDED TRANSITIONS, AND TURNING SPACES SHALL BE 48 INCHES MIN. LANDINGS SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS AND BLENDED TRANSITIONS. THE LANDINGS CLEAR LENGTH SHALL BE 48 INCHES MIN. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE CURB RAMP, EXCLUDING ANY FLARED SIDES OR THE BLENDED TRANSITION LEADING TO THE LANDING. THE SLOPE OF THE LANDING IN ALL DIRECTIONS SHALL BE 1:48 MAX. (11B-406.5.2, 11B-406.5.3)

6. COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO AND WITHIN 24 INCHES OF THE RAMP SHALL NOT BE STEEPER THAN 1:20. THE ADJACENT SURFACES AT TRANSITIONS AT

CURB RAMPS TO WALKS, GUTTERS, AND STREETS SHALL BE AT THE SAME LEVEL. (11B-406.5.8). THE BOTTOM OF DIAGONAL CURB RAMPS SHALL HAVE A CLEAR SPACE 48INCHES MIN. OUTSIDE ACTIVE TRAFFIC LANES OF THE ROADWAY. DIAGONAL OR CORNER TYPE CURB RAMPS WITH RETURNED CURBS OR OTHER WELL-DEFINED EDGES SHALL HAVE THE EDGES PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW. DIAGONAL CURB RAMPS WITH FLARED SIDES SHALL HAVE A SEGMENT OF CURB 24 INCHES LONG MIN. LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING. (11B-406.5.9, 11B-(11B-406.5.10).

8. CURB RAMPS SHALL HAVE A GROOVED BORDER 12 INCHES WIDE ALONG THE TOP OF THE CURB RAMP AT THE LEVEL SURFACE OF THE TOP OF LANDING AND AT THE OUTSIDE EDGES OF THE FLARED SIDES. AT PARALLEL CURB RAMPS THE GROOVED BORDER SHALL BE ON THE UPPER APPROACH IMMEDIATELY.

SITE DEVELOPMENT & ACCESSIBLE ROUTE OF TRAVEL

ACCESSIBLE ROUTE OF TRAVEL IS DEFINED AS "A CONTINUOUS UNOBSTRUCTED PATH CONNECTING ACCESSIBLE ELEMENTS AND SPACES ON AN ACCESSIBLE SITE, BUILDING OR FACILITY THAT CAN BE NEGOTIATED BY A PERSON WITH A DISABILITY USING A WHEELCHAIR AND THAT IS ALSO SAFE FOR AND USABLE BY PERSONS WITH OTHER DISABILITIES, AND THAT IS CONSISTENT WITH THE DEFINITION OF "PATH OF TRAVEL ". (202)

2. AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE SHALL FROM PUBLIC TRANSPORTATION STOPS, ACCESSIBLE PARKING AND ACCESSIBLE PASSENGER LOADING ZONES, PUBLIC STREETS AND SIDEWALKS TO THE ACCESSIBLE BUILDING OR FACILITY ENTRANCE THEY SERVE. WHERE MORE THAN ONE ROUTE IS PROVIDED ALL ROUTES MUST BE ACCESSIBLE. (11B-206.2)

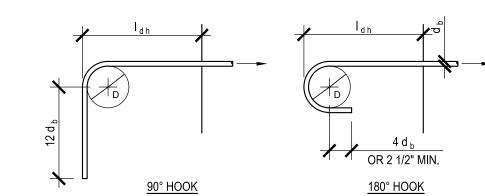
3. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES ACCESSIBLE ELEMENTS AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE. (11B-206.2.2) 4. ACCESSIBLE ROUTES SHALL COINCIDE WITH OR BE LOCATED IN THE SAME AREA AS GENERAL CIRCULATION PATHS. AN ACCESSIBLE ROUTE SHALL NOT PASS THROUGH KITCHENS, STORAGE ROOMS, RESTROOMS,

5. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDING OR FACILITY ENTRANCES WITH ALL ACCESSIBLE SPACES AND ELEMENTS WITHIN THE BUILDING OR FACILITY. (11B-206.2.4)

CLOSETS OR OTHER SPACES USED FOR SIMILAR PURPOSES, EXCEPT AS PERMITTED BY CHAPTER 10

UNDERGROUND SERVICE ALERT CONTACT

CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT LEAST TWO WORKING DAYS NOT INCLUDING THE DATE OF NOTIFICATION BEFORE DIGGING. UNDERGROUND SERVICE ALERT MAY BE CONTACTED AT 800-422-4133.



GENERAL USE 1. SIDE COVER > 2 1/2 IN. ANCHOR BOLTS 2. END COVER (90° HOOKS) > 2 IN.

	Ldh TABLE								
BAR	NORMAL WEIGHT CONCRETE, f'c (PSI)								
SIZE NO.	3,000	3,500	4,000	5,000					
#3	9	8	8	7					
#4	11	11	10	9					
#5	14	13	12	11					
#6	17	16	15	13					
#7	20	18	17	15					
#8	22	21	19	17					
#9	25	23	22	20					
#10	28	26	25	22					
#11	31	28	27	24					
#14	38	36	33	29					

STANDARD HOOK

	CONCRETE fc=3000 PSI			CONCRETE fc=3500 PSI			CONCRETE fc=4000 PSI			CONCRETE f'c=5000 PSI						
	TENSI	ON LAP	TENS	SION	TENSI	ON LAP	TENS	SION	TENSIC	ON LAP	TENS	SION	TENSIC	ON LAP	TEN:	SION
BAR	SPL	ICE	DEVELO	PMENT	SPL	ICE	DEVELO	PMENT	SPL	ICE	DEVELO	PMENT	SPL	ICE	DEVELO	PMENT
SIZE	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER
#3	30	23	23	17	28	21	21	16	26	20	20	15	23	17	17	13
#4	38	29	29	22	37	28	28	21	33	25	25	19	30	23	23	17
#5	49	37	37	28	45	34	34	26	42	32	32	24	38	29	29	22
#6	56	43	43	33	54	41	41	31	50	38	38	29	45	34	34	26
#7	82	63	63	48	77	59	59	45	72	55	55	42	65	50	50	38
#8	94	72	72	55	88	67	67	51	82	63	63	48	73	56	56	43

1. SPLICE AND DEVELOPMENT LENGTHS ARE GIVEN IN INCHES ASSUMING NORMAL WEIGHT CONCRETE AND GRADE 60 REINFORCING. LAP SPLICE AND DEVELOPMENT LENGTHS BASED ON ACI 25.4.2.2, ASSUMING A MINIMUM CLEAR SPACING 2DB, AND MINIMUM CLEAR COVER OF 1DB.

3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW. LAP SPLICES SHALL NOT BE PLACED WITHIN JOINTS, OR WITHIN A DISTANCE OF TWICE THE BEAM DEPTH FROM THE FACE OF THE JOINT MECHANICAL SPLICE SHALL BE DAYTON BAR-LOCK COUPLER OR APPROVED EQUAL CAPABLE OF DEVELOPING 125% OF REBAR TENSILE STRENGTH.

8. LAP SPLICE AND DEVELOPMENT LENGTHS FOR BUNDLED BARS SHALL BE INCREASED BY 20% FOR 3-BAR BUNDLE, AND 33% FOR A 4-BAR BUNDLE.

WHERE LIGHT WEIGHT CONCRETE IS USED INCREASE TENSION LAP AND DEVELOPMENT LENGTHS BY 33%. WHERE EPOXY COATED OR ZINC COATED BARS ARE USED INCREASE TENSION LAP AND DEVELOPMENT BY 50%.

REINFORCING STEEL TENSION DEVELOPMENT & LAP SPLICE

DSA APP: 01-119997 DSA FILE: 07-C1

DSA APPROVAL STAMP





₽ 2 op, alth Φ $\boldsymbol{\omega}$

ADDENDUM 1

04/22/2022 04/22/2022

ADDENDUM 1

DLR GROUP PROJECT NUMBER: 75-21809-00 SIEGFRIED PROJECT NUMBER: 21325

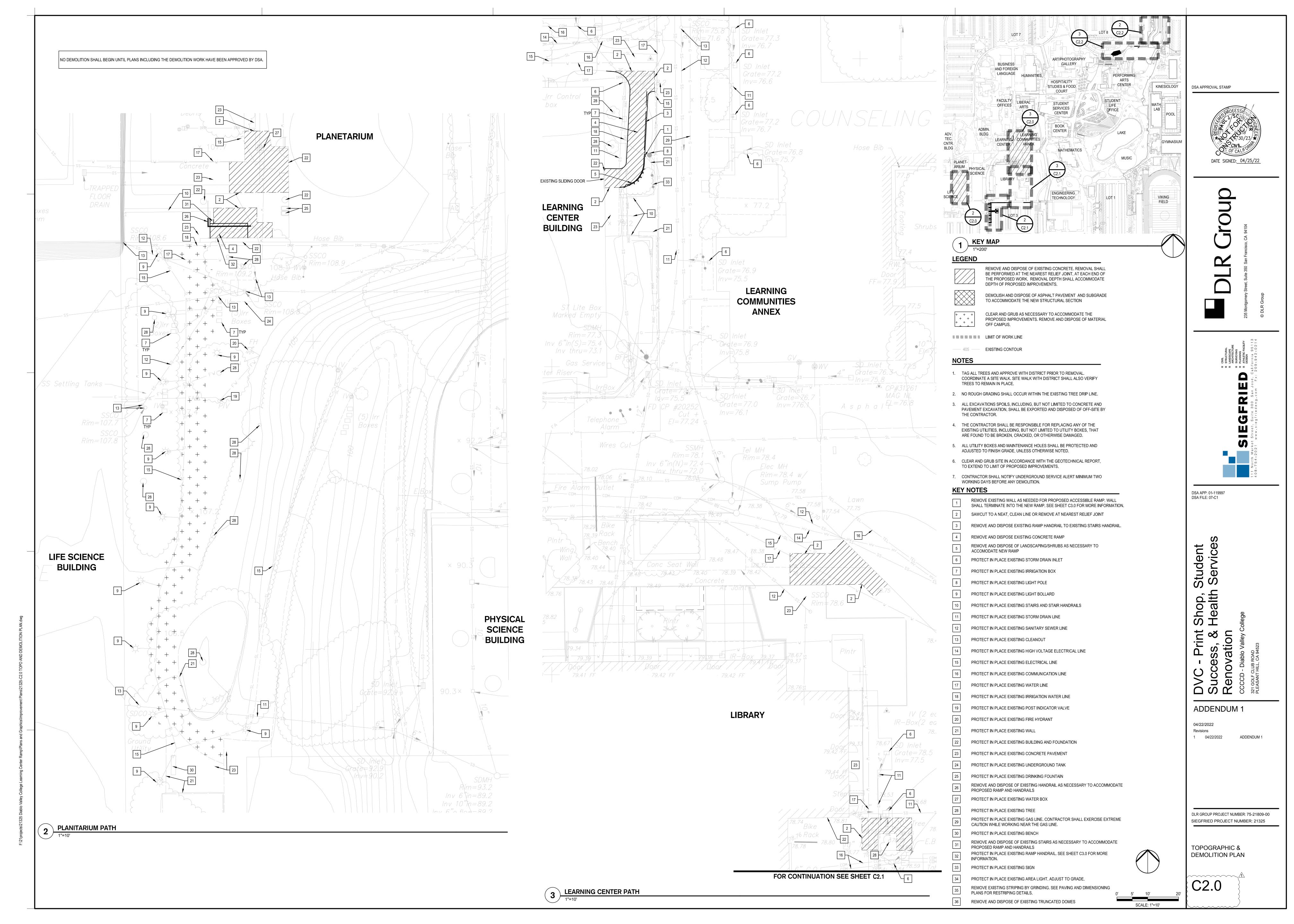
NOTES SHEET

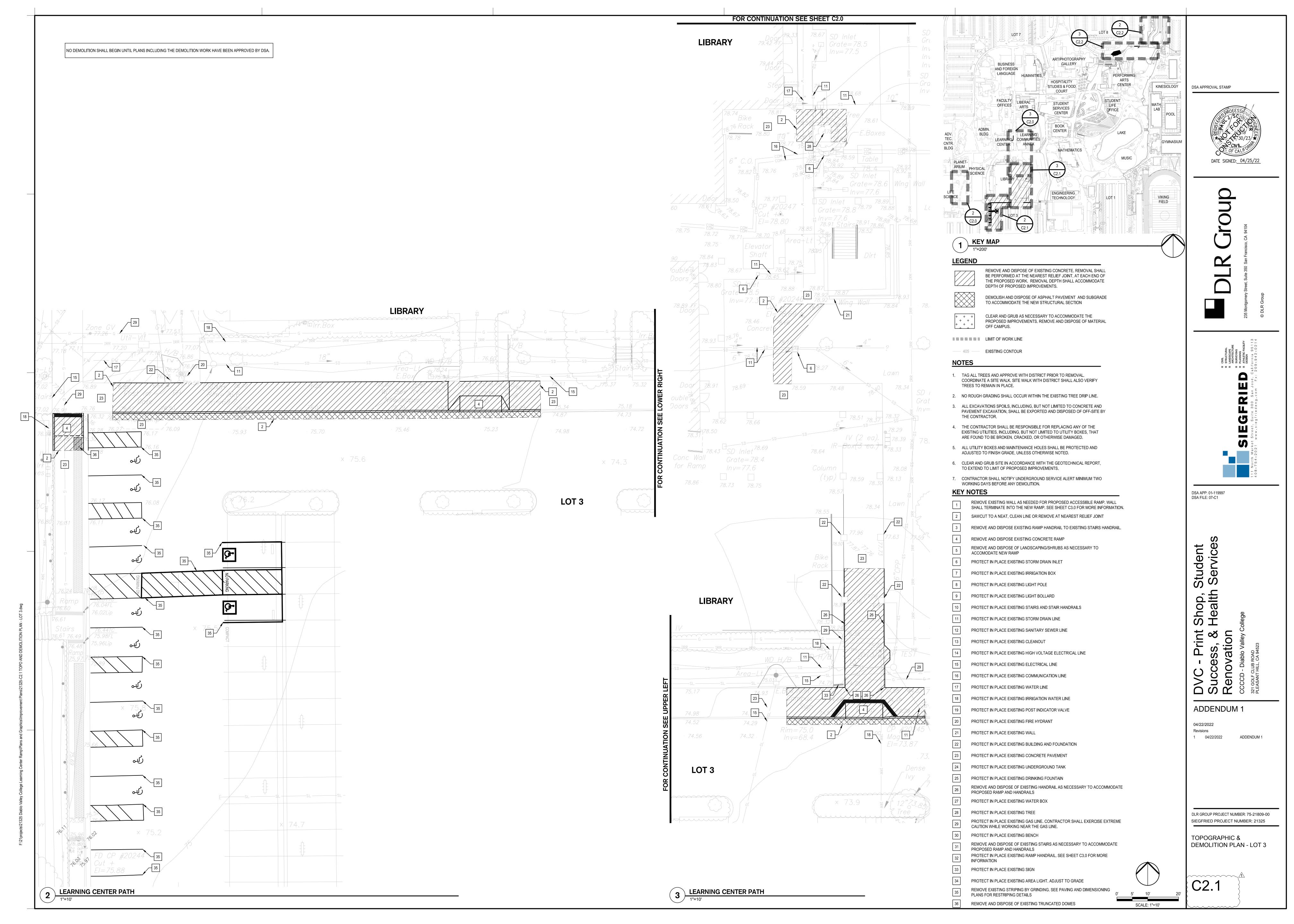
~~~<u>/1</u>

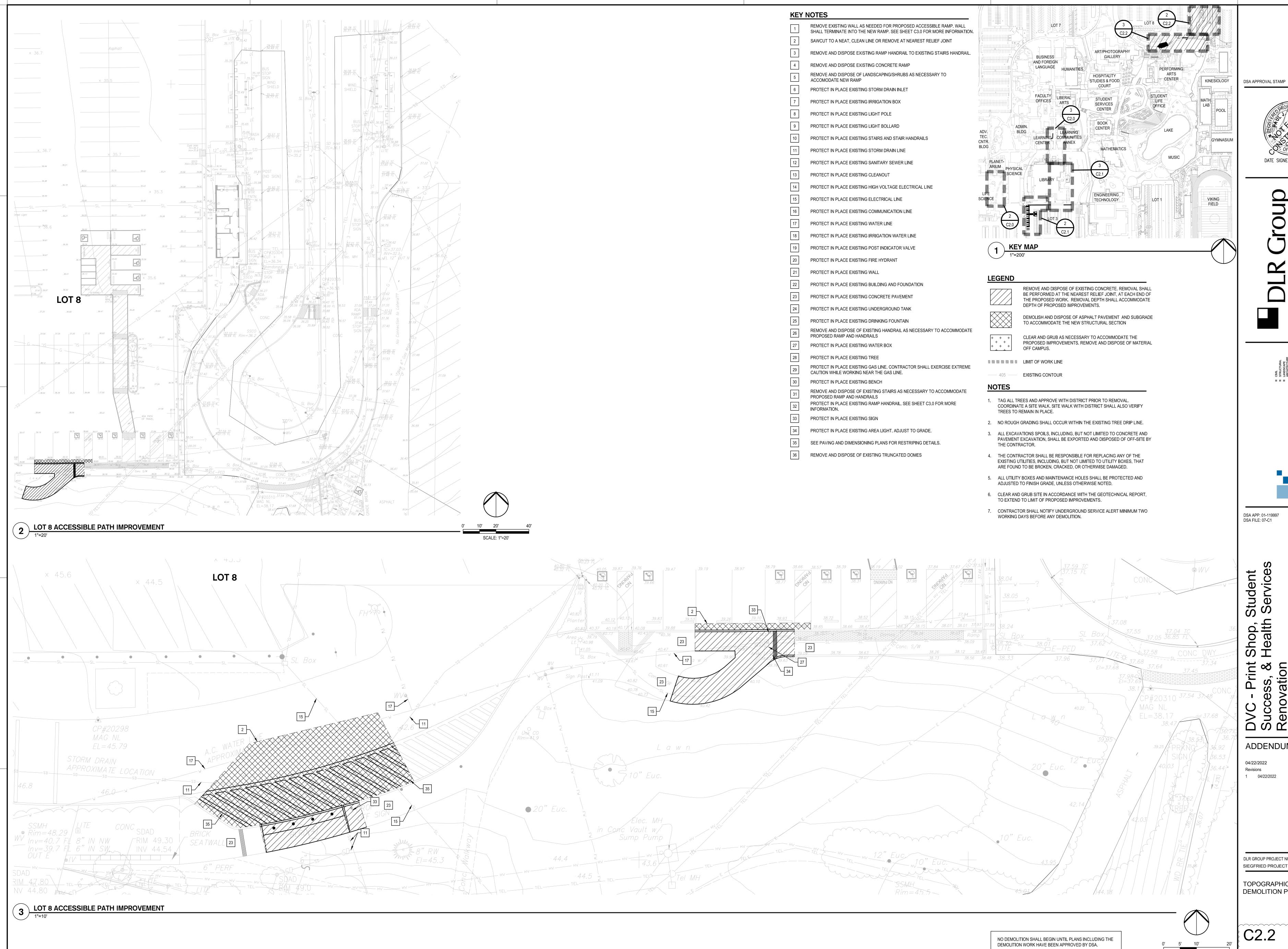
DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: (DSA PR 15-01)

THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT."









DATE SIGNED: 04/25/22

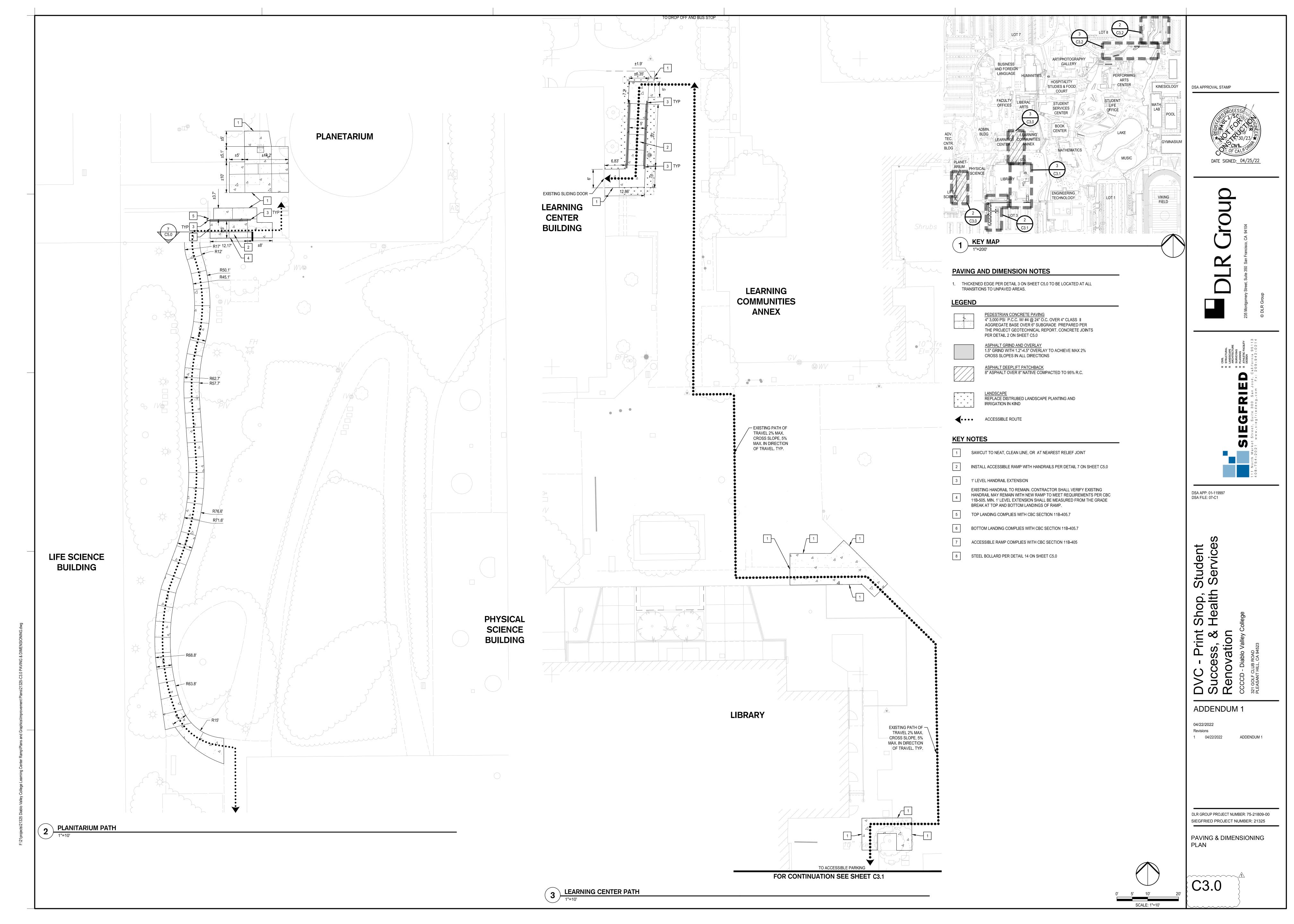
**ADDENDUM 1** 

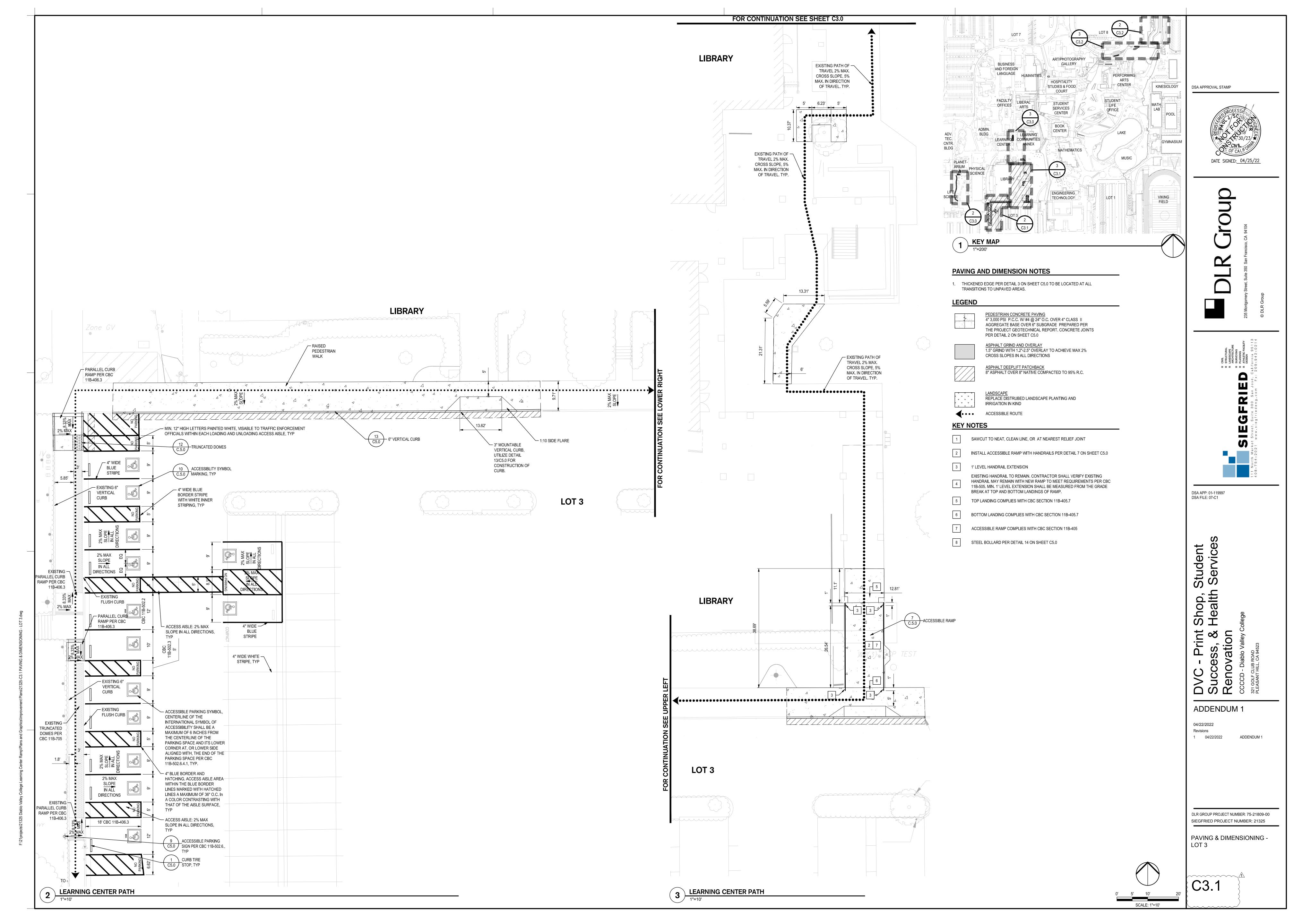
ADDENDUM 1

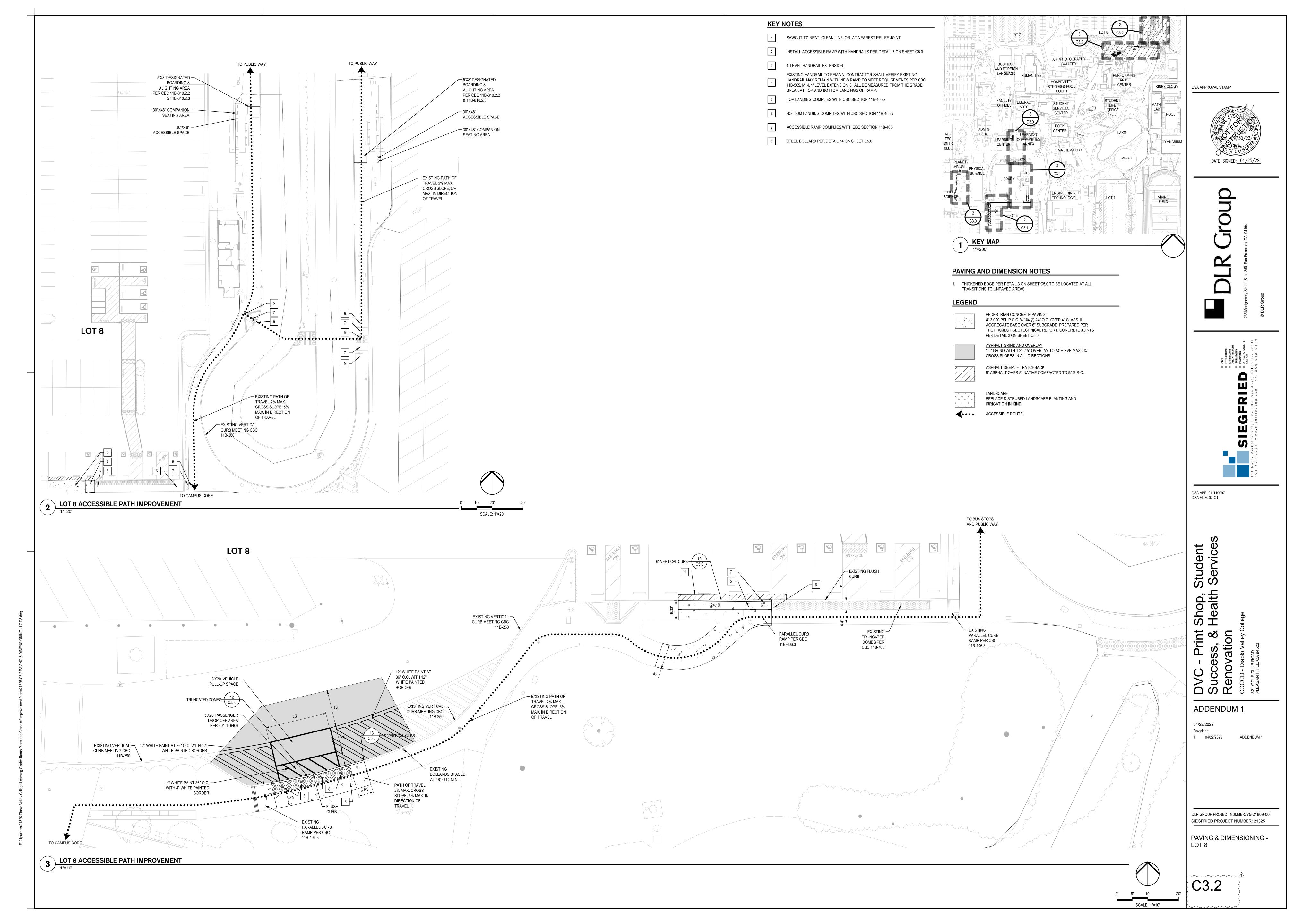
DLR GROUP PROJECT NUMBER: 75-21809-00 SIEGFRIED PROJECT NUMBER: 21325

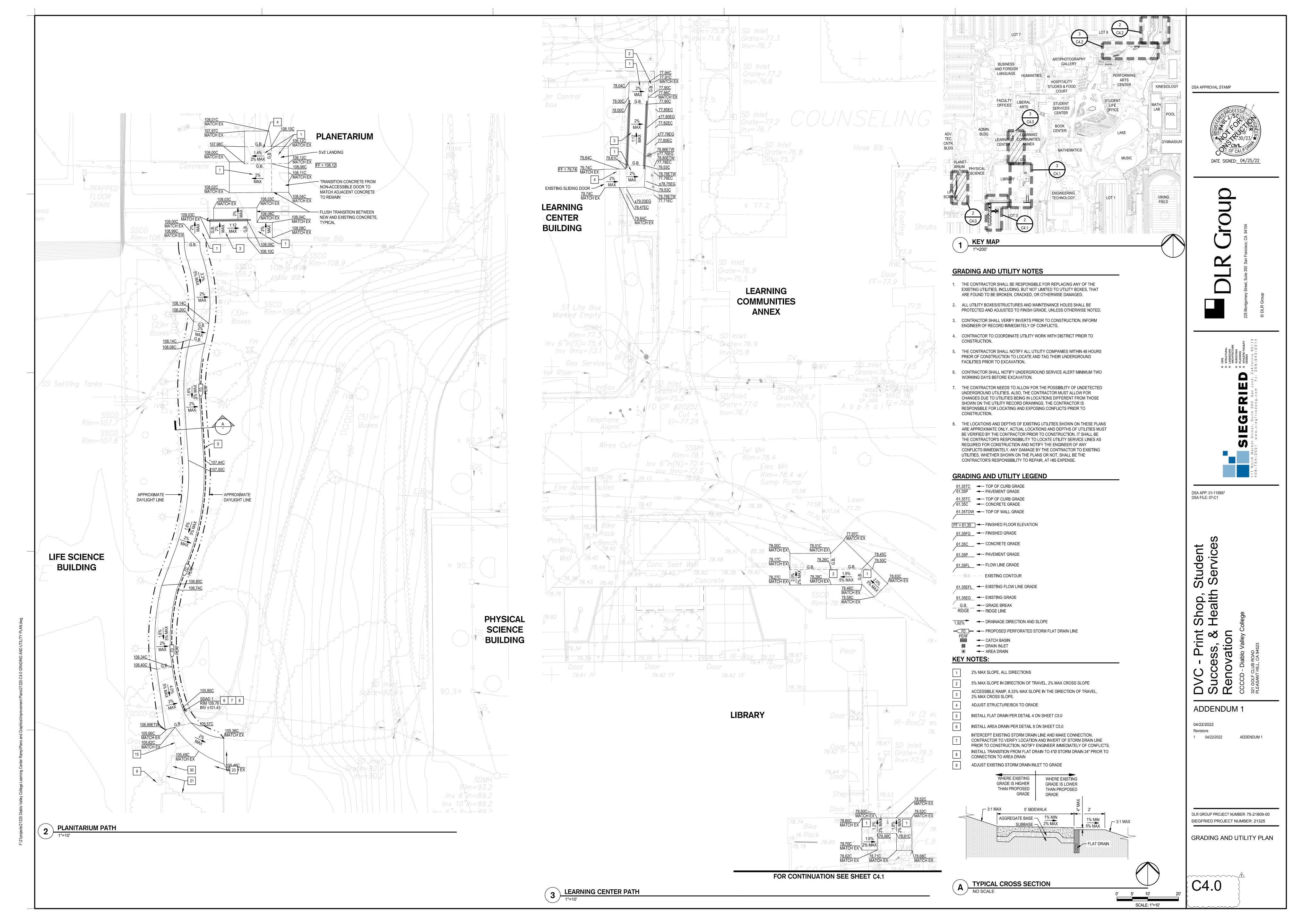
TOPOGRAPHIC AND DEMOLITION PLAN - LOT 8

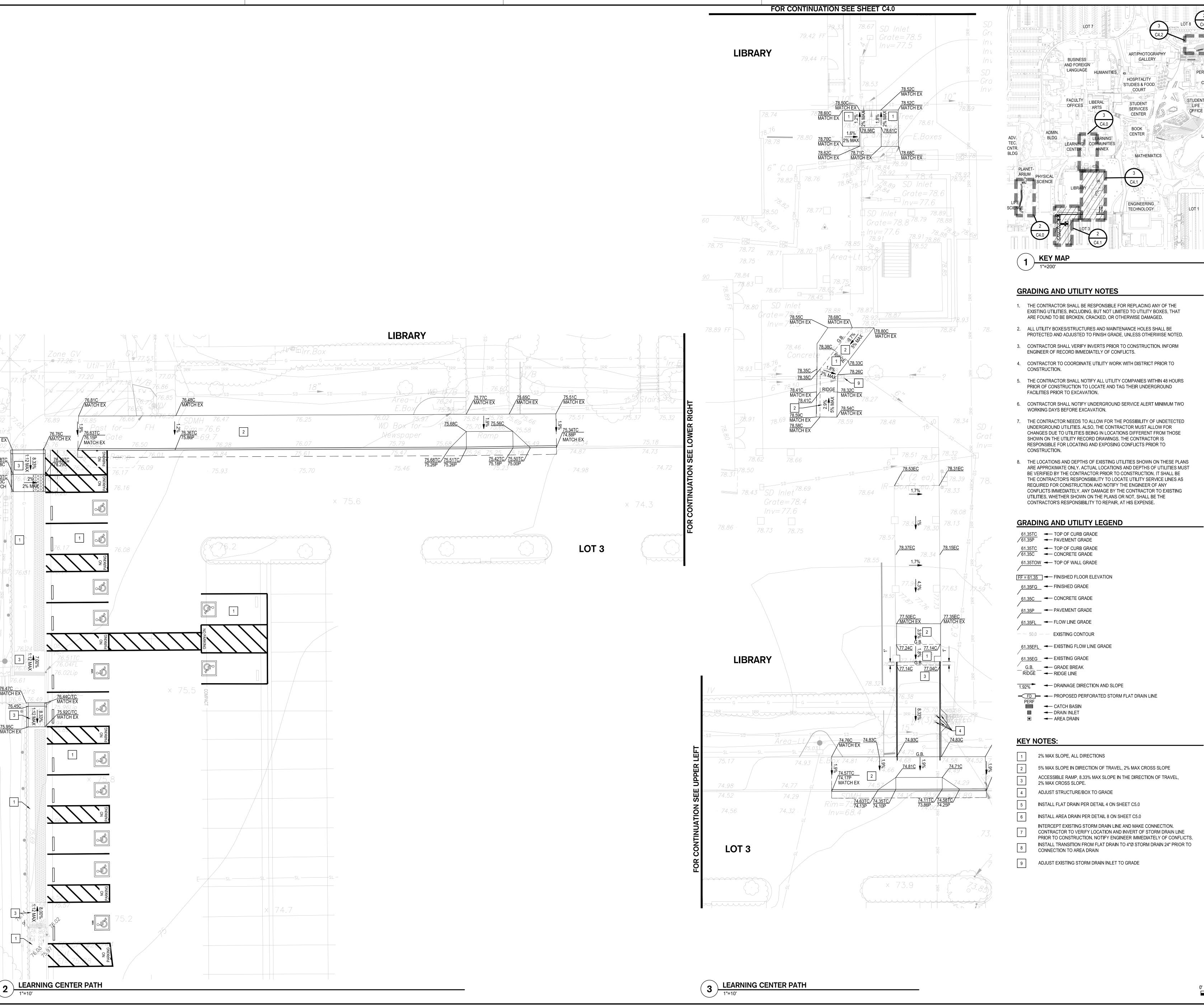
SCALE: 1"=10'

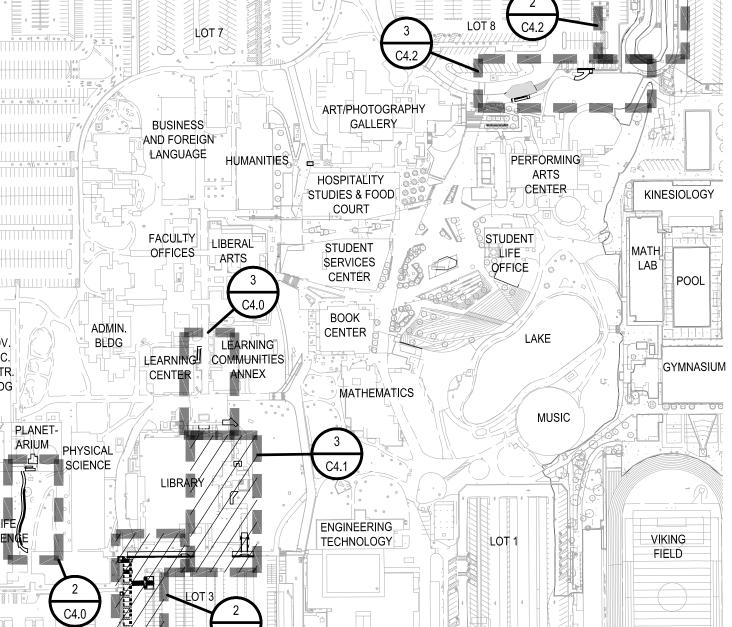














DATE SIGNED: 04/25/22

DSA APP: 01-119997 DSA FILE: 07-C1

Shop, Student Health Services DVC - Print Success, & Renovation

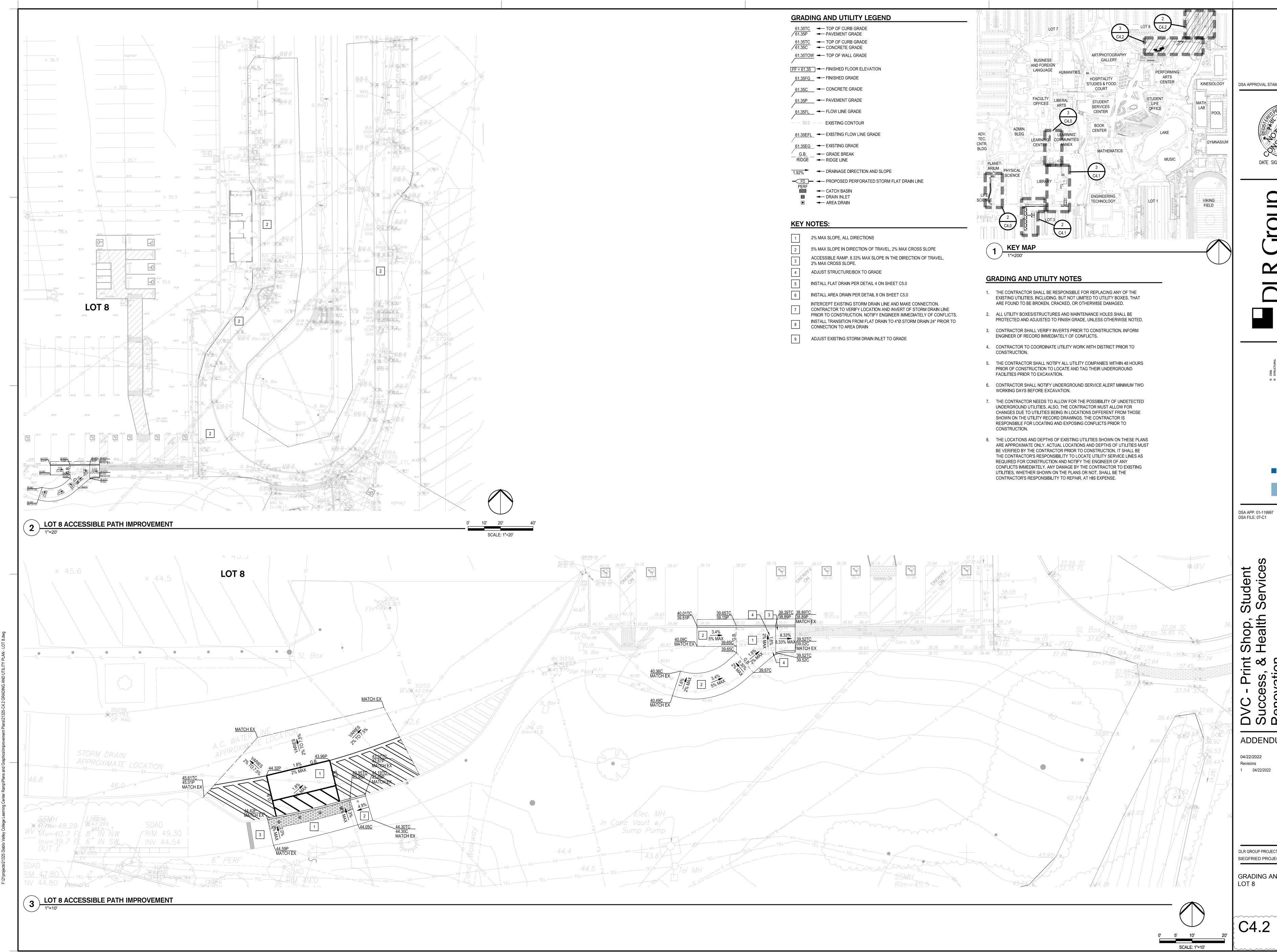
**ADDENDUM 1** 

04/22/2022 Revisions 1 04/22/2022

ADDENDUM 1

DLR GROUP PROJECT NUMBER: 75-21809-00 SIEGFRIED PROJECT NUMBER: 21325

GRADING AND UTILITY PLAN -





DATE SIGNED: 04/25/22

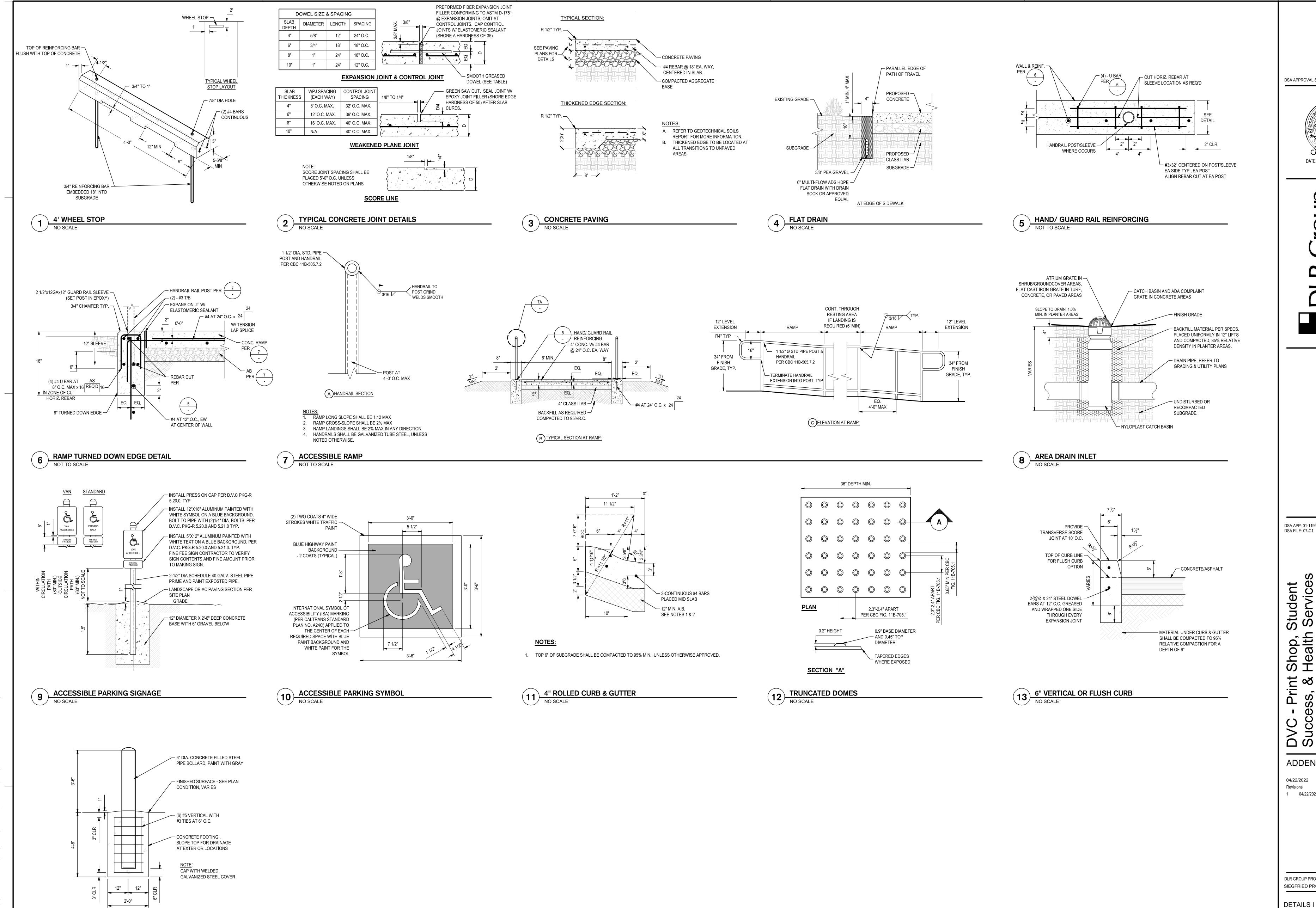
**ADDENDUM 1** 

ADDENDUM 1

DLR GROUP PROJECT NUMBER: 75-21809-00 SIEGFRIED PROJECT NUMBER: 21325

GRADING AND UTILITY PLAN -

C4.2



DATE SIGNED: 04/25/22

DSA APP: 01-119997 DSA FILE: 07-C1

Student Services Shop, \$Health

DVC - Print Success, & Renovation

**ADDENDUM 1** 

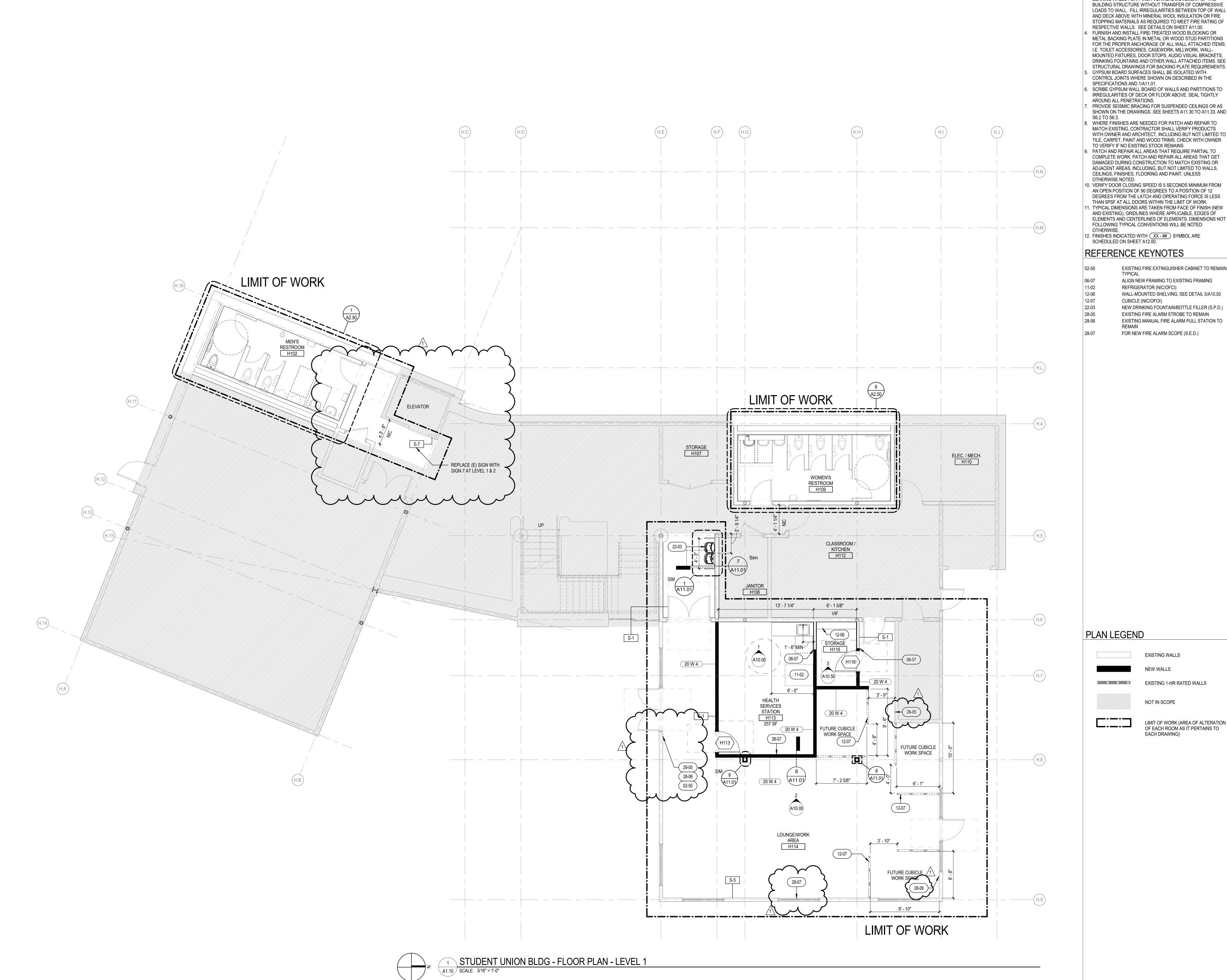
04/22/2022 Revisions 1 04/22/2022

ADDENDUM 1

DLR GROUP PROJECT NUMBER: 75-21809-00 SIEGFRIED PROJECT NUMBER: 21325

**DETAILS I** 

C5.0



## **LEGEND AND NOTES**

## GENERAL ARCHITECTURAL NOTES

WALL TYPES SHALL BE DESIGNATED ON FLOOR PLANS THUS: (## XX # ) SEE SHEET A8.00 FOR WALL TYPES. 2. ALL INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF

FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE. SEE REFLECTED CEILING PLAN NOTES. B. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS. SEE DETAILS ON SHEET A11.00. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL OR WOOD STUD PARTITIONS

FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, DOOR STOPS, AUDIO VISUAL BRACKETS, DRINKING FOUNTAINS AND OTHER WALL ATTACHED ITEMS. SEE STRUCTURAL DRAWINGS FOR BACKING PLATE REQUIREMENTS. 5. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH

CONTROL JOINTS WHERE SHOWN ON DESCRIBED IN THE SPECIFICATIONS AND 1/A11.01. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK OR FLOOR ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.

PROVIDE SEISMIC BRACING FOR SUSPENDED CEILINGS OR AS SHOWN ON THE DRAWINGS. SEE SHEETS A11.30 TO A11.33. AND S6.2 TO S6.3. B. WHERE FINISHES ARE NEEDED FOR PATCH AND REPAIR TO MATCH EXISTING, CONTRACTOR SHALL VERIFY PRODUCTS WITH OWNER AND ARCHITECT, INCLUDING BUT NOT LIMITED TO TILE, CARPET, PAINT AND WOOD TRIMS. CHECK WITH OWNER TO VERIFY IF NO EXISTING STOCK REMAINS. PATCH AND REPAIR ALL AREAS THAT REQUIRE PARTIAL TO

ADJACENT AREAS, INCLUDING, BUT NOT LIMITED TO WALLS, CEILINGS, FINISHES, FLOORING AND PAINT, UNLESS OTHERWISE NOTED. 10. VERIFY DOOR CLOSING SPEED IS 5 SECONDS MINIMUM FROM AN OPEN POSITION OF 90 DEGREES TO A POSITION OF 12 DEGREES FROM THE LATCH AND OPERATING FORCE IS LESS THAN 5PSF AT ALL DOORS WITHIN THE LIMIT OF WORK. 1. TYPICAL DIMENSIONS ARE TAKEN FROM FACE OF FINISH (NEW AND EXISTING), GRIDLINES WHERE APPLICABLE, EDGES OF

12. FINISHES INDICATED WITH (XX - ##) SYMBOL ARE SCHEDULED ON SHEET A12.00.

## REFERENCE KEYNOTES

EXISTING FIRE EXTINGUISHER CABINET TO REMAIN ALIGN NEW FRAMING TO EXISTING FRAMING REFRIGERATOR (NIC/OFCI) WALL-MOUNTED SHELVING, SEE DETAIL 5/A10.50 CUBICLE (NIC/OFOI) NEW DRINKING FOUNTAIN/BOTTLE FILLER (S.P.D.) EXISTING FIRE ALARM STROBE TO REMAIN

EXISTING MANUAL FIRE ALARM PULL STATION TO

EXISTING 1-HR RATED WALLS

LIMIT OF WORK (AREA OF ALTERATION OF EACH ROOM AS IT PERTAINS TO EACH DRAWING)

FOR NEW FIRE ALARM SCOPE (S.E.D.)

DSA APPROVAL STAMP



DSA APP: 01-119997 DSA FILE: 07-C1

ADDENDUM 1

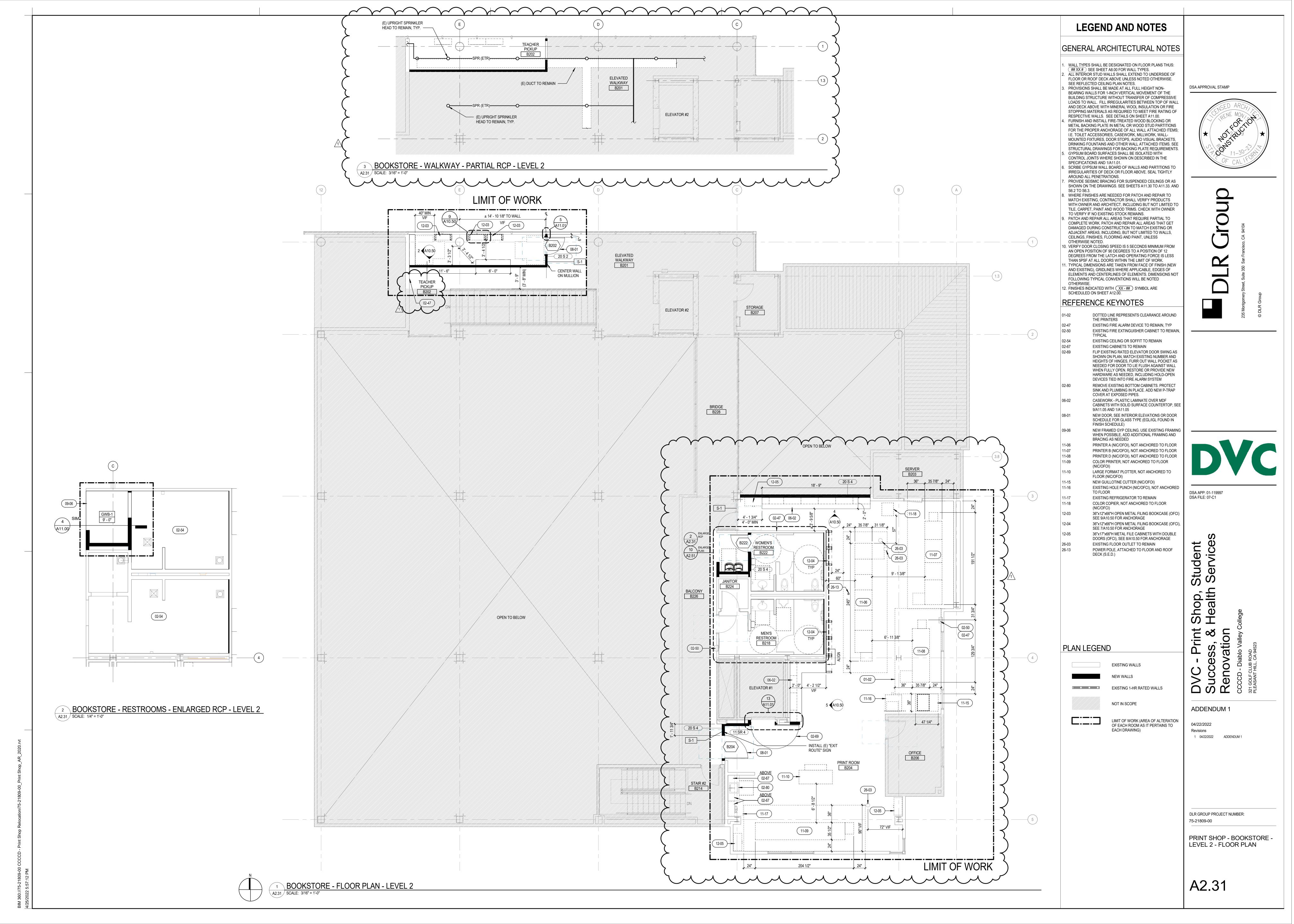
04/22/2022 Revisions 1 04/22/2022 ADDENDUM 1

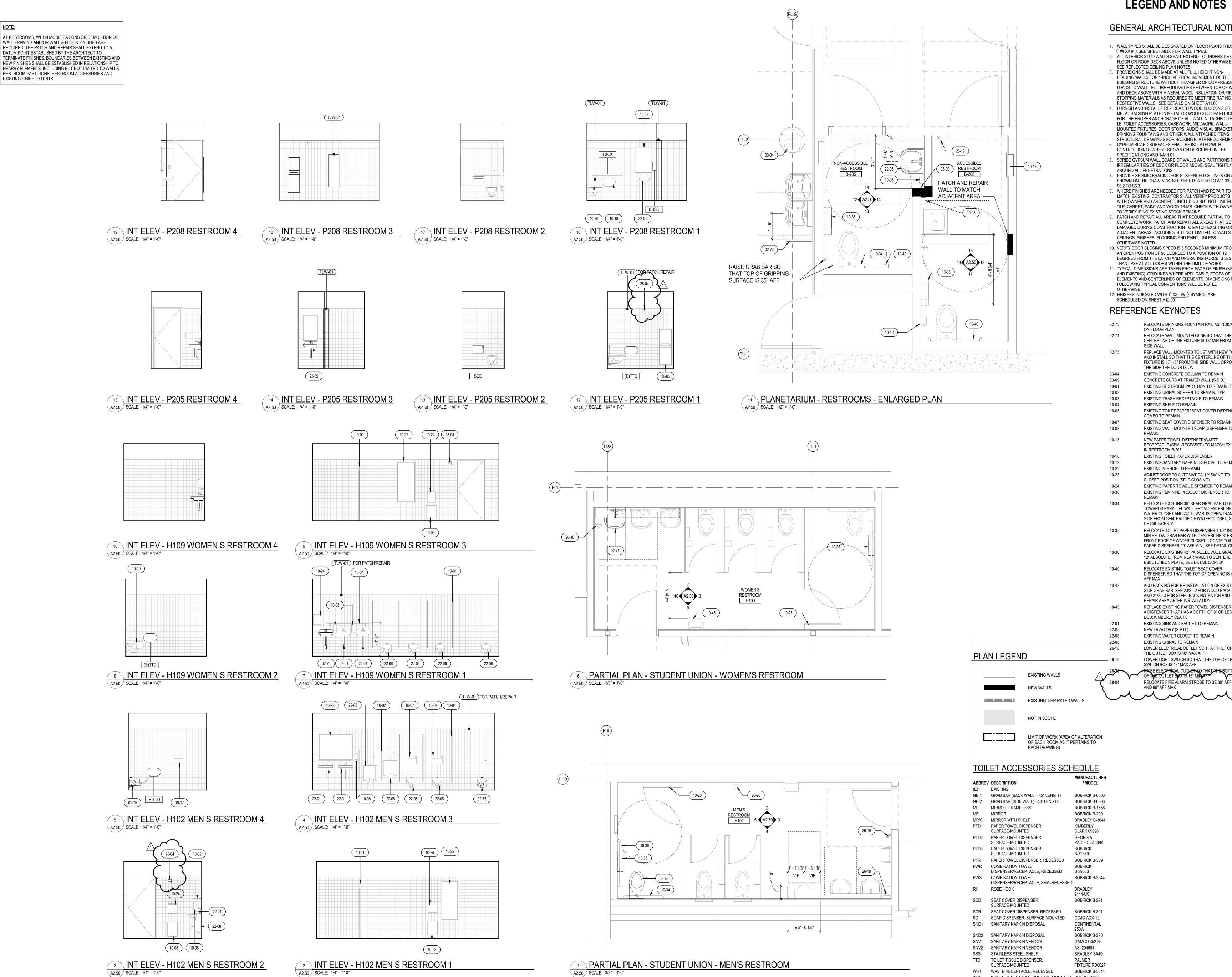
DLR GROUP PROJECT NUMBER:

75-21809-00

HEALTH SERVICES -STUDENT UNION BLDG -LEVEL 1 FLOOR PLAN

A1.10





PARTIAL PLAN - STUDENT UNION - MEN'S RESTROOM

A2.50 SCALE: 1/4" = 1'-0"

EXISTING FINISH EXTENTS.

**LEGEND AND NOTES** 

GENERAL ARCHITECTURAL NOTES

WALL TYPES SHALL BE DESIGNATED ON FLOOR PLANS THUS: ## XX # SEE SHEET A8.00 FOR WALL TYPES. ALL INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE. SEE REFLECTED CEILING PLAN NOTES. DSA APPROVAL STAMP PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE

BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS. SEE DETAILS ON SHEET A11.00. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL OR WOOD STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, DOOR STOPS, AUDIO VISUAL BRACKETS, DRINKING FOUNTAINS AND OTHER WALL ATTACHED ITEMS. SEE

STRUCTURAL DRAWINGS FOR BACKING PLATE REQUIREMENTS. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DESCRIBED IN THE SPECIFICATIONS AND 1/A11.01. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO

IRREGULARITIES OF DECK OR FLOOR ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS. PROVIDE SEISMIC BRACING FOR SUSPENDED CEILINGS OR AS SHOWN ON THE DRAWINGS. SEE SHEETS A11.30 TO A11.33. AND S6.2 TO S6.3. WHERE FINISHES ARE NEEDED FOR PATCH AND REPAIR TO

WITH OWNER AND ARCHITECT. INCLUDING BUT NOT LIMITED TO TILE, CARPET, PAINT AND WOOD TRIMS. CHECK WITH OWNER TO VERIFY IF NO EXISTING STOCK REMAINS PATCH AND REPAIR ALL AREAS THAT REQUIRE PARTIAL TO COMPLETE WORK. PATCH AND REPAIR ALL AREAS THAT GET DAMAGED DURING CONSTRUCTION TO MATCH EXISTING OR ADJACENT AREAS, INCLUDING, BUT NOT LIMITED TO WALLS, CEILINGS, FINISHES, FLOORING AND PAINT, UNLESS OTHERWISE NOTED.

10. VERIFY DOOR CLOSING SPEED IS 5 SECONDS MINIMUM FROM AN OPEN POSITION OF 90 DEGREES TO A POSITION OF 12 DEGREES FROM THE LATCH AND OPERATING FORCE IS LESS THAN 5PSF AT ALL DOORS WITHIN THE LIMIT OF WORK. . TYPICAL DIMENSIONS ARE TAKEN FROM FACE OF FINISH (NEW AND EXISTING), GRIDLINES WHERE APPLICABLE, EDGES OF ELEMENTS AND CENTERLINES OF ELEMENTS. DIMENSIONS NOT FOLLOWING TYPICAL CONVENTIONS WILL BE NOTED

12. FINISHES INDICATED WITH XX - ## SYMBOL ARE SCHEDULED ON SHEET A12.00.

### REFERENCE KEYNOTES

RELOCATE DRINKING FOUNTAIN RAIL AS INDICATED ON FLOOR PLAN RELOCATE WALL-MOUNTED SINK SO THAT THE CENTERLINE OF THE FIXTURE IS 18" MIN FROM THE SIDE WALL REPLACE WALL-MOUNTED TOILET WITH NEW TOILET AND INSTALL SO THAT THE CENTERLINE OF THE FIXTURE IS 17"-18" FROM THE SIDE WALL OPPOSITE

THE SIDE THE DOOR IS ON EXISTING CONCRETE COLUMN TO REMAIN CONCRETE CURB AT FRAMED WALL (S.S.D.) EXISTING RESTROOM PARTITION TO REMAIN, TYP EXISTING URINAL SCREEN TO REMAIN, TYP EXISTING TRASH RECEPTACLE TO REMAIN EXISTING SHELF TO REMAIN EXISTING TOILET PAPER/ SEAT COVER DISPENSER COMBO TO REMAIN EXISTING SEAT COVER DISPENSER TO REMAIN EXISTING WALL-MOUNTED SOAP DISPENSER TO

NEW PAPER TOWEL DISPENSER/WASTE RECEPTACLE (SEMI-RECESSED) TO MATCH EXISTIN IN RESTROOM B-205

EXISTING TOILET PAPER DISPENSER EXISTING SANITARY NAPKIN DISPOSAL TO REMAIN EXISTING MIRROR TO REMAIN ADJUST DOOR TO AUTOMATICALLY SWING TO CLOSED POSITION (SELF-CLOSING) EXISTING PAPER TOWEL DISPENSER TO REMAIN EXISTING FEMININE PRODUCT DISPENSER TO RELOCATE EXISTING 36" REAR GRAB BAR TO BE 1 TOWARDS PARALLEL WALL FROM CENTERLINE OF WATER CLOSET AND 24" TOWARDS OPEN/TRANSFE SIDE FROM CENTERLINE OF WATER CLOSET, SEE

DETAIL 5/CP3.01 RELOCATE TOILET PAPER DISPENSER 1 1/2" INCHES MIN BELOW GRAB BAR WITH CENTERLINE 8" FROM FRONT EDGE OF WATER CLOSET. LOCATE TOILET PAPER DISPENSER 19" AFF MIN., SEE DETAIL CP3.01 RELOCATE EXISTING 42" PARALLEL WALL GRAB BAR 12" ABSOLUTE FROM REAR WALL TO CENTERLINE OF ESCUTCHEON PLATE, SEE DETAIL 5/CP3.01 RELOCATE EXISTING TOILET SEAT COVER

DISPENSER SO THAT THE TOP OF OPENING IS 40" ADD BACKING FOR RE-INSTALLATION OF EXISTING SIDE GRAB BAR, SEE 23/S6.2 FOR WOOD BACKING AND 21/S6.3 FOR STEEL BACKING. PATCH AND REPAIR AREA AFTER INSTALLATION. REPLACE EXISTING PAPER TOWEL DISPENSER WITH A DISPENSER THAT HAS A DEPTH OF 8" OR LESS. BOD: KIMBERLY CLARK EXISTING SINK AND FAUCET TO REMAIN NEW LAVATORY (S.P.D.)

EXISTING WATER CLOSET TO REMAIN EXISTING URINAL TO REMAIN LOWER ELECTRICAL OUTLET SO THAT THE TOP OF THE OUTLET BOX IS 48" MAX AFF LOWER LIGHT SWITCH SO THAT THE TOP OF THE SWITCH BOX IS 48" MAX AFF

RELOCATE FIRE ALARM STROBE TO BE 80" AFF MIN AND 96" AFF MAX

SURFACE-MOUNTED

WASTE RECEPTACLE, RECESSED

WR2 WASTE RECEPTACLE, SURFACE-MOUNTED BRADLEY 357

FIXTURE RD0027

BOBRICK B-3644

DSA APP: 01-119997

DSA FILE: 07-C1

tudent

hop, ealth

SI

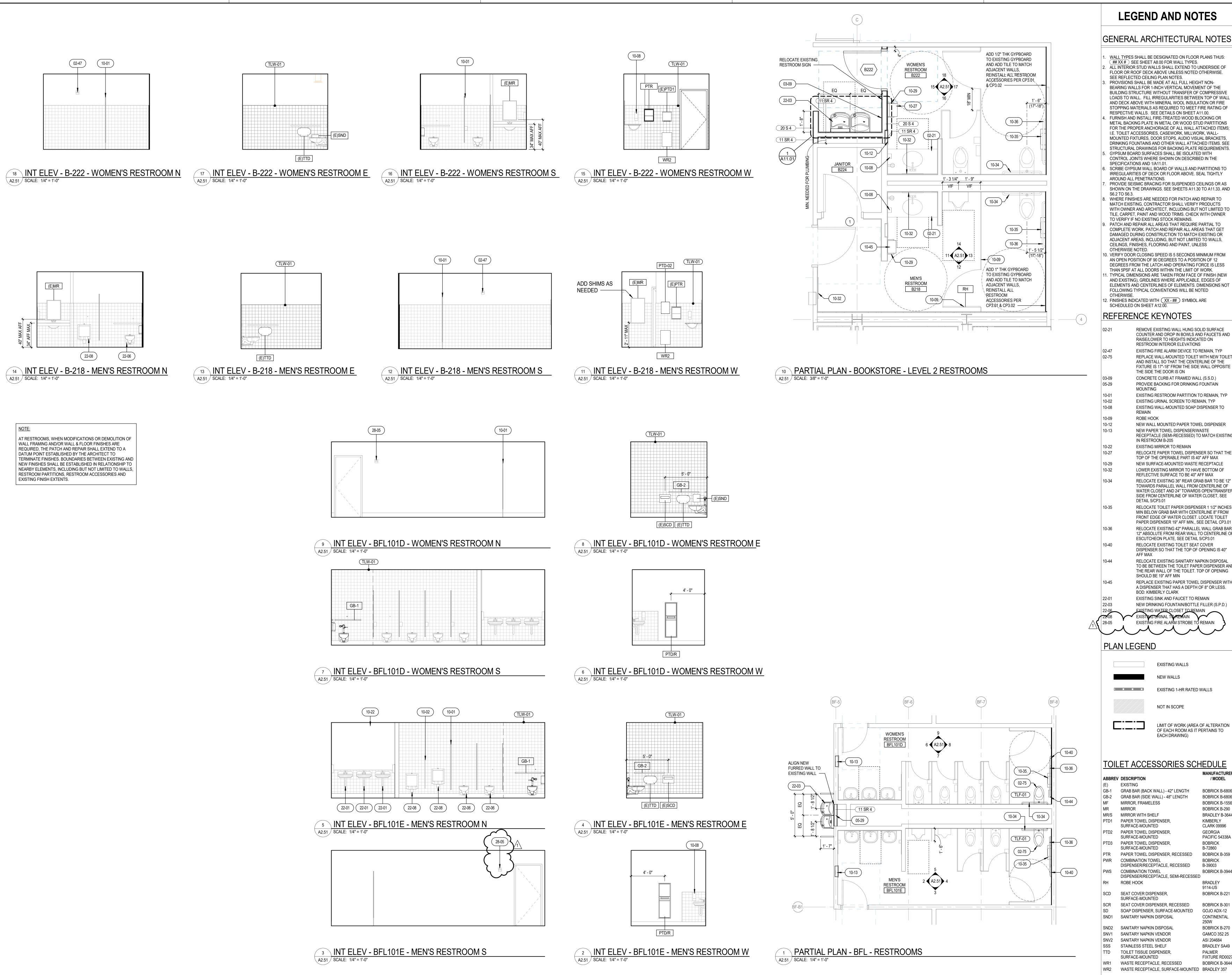
**ADDENDUM 1** 

04/22/2022 Revisions 1 04/22/2022 ADDENDUM 1

DLR GROUP PROJECT NUMBER: 75-21809-00

PARTIAL FLOOR PLANS -RESTROOMS

A2.50



**LEGEND AND NOTES** 

GENERAL ARCHITECTURAL NOTES

(## XX #) SEE SHEET A8.00 FOR WALL TYPES. ALL INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE. SEE REFLECTED CEILING PLAN NOTES. DSA APPROVAL STAMP PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL

AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS. SEE DETAILS ON SHEET A11.00. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL OR WOOD STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, DOOR STOPS, AUDIO VISUAL BRACKETS

DRINKING FOUNTAINS AND OTHER WALL ATTACHED ITEMS. SEE STRUCTURAL DRAWINGS FOR BACKING PLATE REQUIREMENTS. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DESCRIBED IN THE SPECIFICATIONS AND 1/A11.01. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO

IRREGULARITIES OF DECK OR FLOOR ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS. PROVIDE SEISMIC BRACING FOR SUSPENDED CEILINGS OR AS SHOWN ON THE DRAWINGS. SEE SHEETS A11.30 TO A11.33. AND . WHERE FINISHES ARE NEEDED FOR PATCH AND REPAIR TO MATCH EXISTING, CONTRACTOR SHALL VERIFY PRODUCTS

WITH OWNER AND ARCHITECT. INCLUDING BUT NOT LIMITED TO TILE, CARPET, PAINT AND WOOD TRIMS. CHECK WITH OWNER TO VERIFY IF NO EXISTING STOCK REMAINS PATCH AND REPAIR ALL AREAS THAT REQUIRE PARTIAL TO COMPLETE WORK. PATCH AND REPAIR ALL AREAS THAT GET DAMAGED DURING CONSTRUCTION TO MATCH EXISTING OR ADJACENT AREAS, INCLUDING, BUT NOT LIMITED TO WALLS, CEILINGS, FINISHES, FLOORING AND PAINT, UNLESS OTHERWISE NOTED.

10. VERIFY DOOR CLOSING SPEED IS 5 SECONDS MINIMUM FROM AN OPEN POSITION OF 90 DEGREES TO A POSITION OF 12 DEGREES FROM THE LATCH AND OPERATING FORCE IS LESS THAN 5PSF AT ALL DOORS WITHIN THE LIMIT OF WORK. 1. TYPICAL DIMENSIONS ARE TAKEN FROM FACE OF FINISH (NEW AND EXISTING), GRIDLINES WHERE APPLICABLE, EDGES OF ELEMENTS AND CENTERLINES OF ELEMENTS. DIMENSIONS NOT FOLLOWING TYPICAL CONVENTIONS WILL BE NOTED

REFERENCE KEYNOTES

REMOVE EXISTING WALL HUNG SOLID SURFACE COUNTER AND DROP IN BOWLS AND FAUCETS AND RAISE/LOWER TO HEIGHTS INDICATED ON RESTROOM INTERIOR ELEVATIONS EXISTING FIRE ALARM DEVICE TO REMAIN, TYP REPLACE WALL-MOUNTED TOILET WITH NEW TOILE AND INSTALL SO THAT THE CENTERLINE OF THE FIXTURE IS 17"-18" FROM THE SIDE WALL OPPOSITE THE SIDE THE DOOR IS ON CONCRETE CURB AT FRAMED WALL (S.S.D.) PROVIDE BACKING FOR DRINKING FOUNTAIN

EXISTING RESTROOM PARTITION TO REMAIN, TYP EXISTING URINAL SCREEN TO REMAIN, TYP EXISTING WALL-MOUNTED SOAP DISPENSER TO REMAIN ROBE HOOK NEW WALL MOUNTED PAPER TOWEL DISPENSER NEW PAPER TOWEL DISPENSER/WASTE

RECEPTACLE (SEMI-RECESSED) TO MATCH EXISTING IN RESTROOM B-205 EXISTING MIRROR TO REMAIN RELOCATE PAPER TOWEL DISPENSER SO THAT THE

TOP OF THE OPERABLE PART IS 40" AFF MAX NEW SURFACE-MOUNTED WASTE RECEPTACLE LOWER EXISTING MIRROR TO HAVE BOTTOM OF REFLECTIVE SURFACE TO BE 40" AFF MAX RELOCATE EXISTING 36" REAR GRAB BAR TO BE TOWARDS PARALLEL WALL FROM CENTERLINE OF WATER CLOSET AND 24" TOWARDS OPEN/TRANSFE SIDE FROM CENTERLINE OF WATER CLOSET, SEE DETAIL 5/CP3.01

MIN BELOW GRAB BAR WITH CENTERLINE 8" FROM FRONT EDGE OF WATER CLOSET. LOCATE TOILET PAPER DISPENSER 19" AFF MIN., SEE DETAIL CP3.01 RELOCATE EXISTING 42" PARALLEL WALL GRAB BAR 12" ABSOLUTE FROM REAR WALL TO CENTERLINE OF ESCUTCHEON PLATE, SEE DETAIL 5/CP3.01 RELOCATE EXISTING TOILET SEAT COVER DISPENSER SO THAT THE TOP OF OPENING IS 40" RELOCATE EXISTING SANITARY NAPKIN DISPOSAL TO BE BETWEEN THE TOILET PAPER DISPENSER AND

THE REAR WALL OF THE TOILET. TOP OF OPENING SHOULD BE 19" AFF MIN REPLACE EXISTING PAPER TOWEL DISPENSER WITH A DISPENSER THAT HAS A DEPTH OF 8" OR LESS. BOD: KIMBERLY CLARK EXISTING SINK AND FAUCET TO REMAIN

NOT IN SCOPE LIMIT OF WORK (AREA OF ALTERATION

**MANUFACTURER** ABBREV DESCRIPTION / MODEL BOBRICK B-6806 GRAB BAR (BACK WALL) - 42" LENGTH BOBRICK B-6806 GRAB BAR (SIDE WALL) - 48" LENGTH MIRROR, FRAMELESS BOBRICK B-1556 BOBRICK B-290 MIRROR WITH SHELF BRADLEY B-3644 PAPER TOWEL DISPENSER, KIMBERLY CLARK 09996 SURFACE-MOUNTED PTD2 PAPER TOWEL DISPENSER, GEORGIA SURFACE-MOUNTED PACIFIC 54338A

BOBRICK B-72860 BOBRICK B-359 **BOBRICK** B-39003 BOBRICK B-3944 BRADLEY

9114-US BOBRICK B-221 SURFACE-MOUNTED SEAT COVER DISPENSER, RECESSED BOBRICK B-301 SOAP DISPENSER, SURFACE-MOUNTED GOJO ADX-12 SANITARY NAPKIN DISPOSAL CONTINENTAL

PARTIAL FLOOR PLANS -RESTROOMS

DSA FILE: 07-C1

DSA APP: 01-119997

St

hop, ealth

Print SS, &

ADDENDUM 1

1 04/22/2022 ADDENDUM 1

04/22/2022

Revisions

tudent

NEW DRINKING FOUNTAIN/BOTTLE FILLER (S.P.D.)

EXISTING WATER CLOSET TO REMAIN EXISTING FIRE ALARM STROBE TO REMAIN

**EXISTING WALLS** EXISTING 1-HR RATED WALLS

OF EACH ROOM AS IT PERTAINS TO

EACH DRAWING)

TOILET ACCESSORIES SCHEDUL

PAPER TOWEL DISPENSER, SURFACE-MOUNTED PAPER TOWEL DISPENSER, RECESSED COMBINATION TOWEL DISPENSER/RECEPTACLE, RECESSED COMBINATION TOWEL DISPENSER/RECEPTACLE, SEMI-RECESSED SEAT COVER DISPENSER,

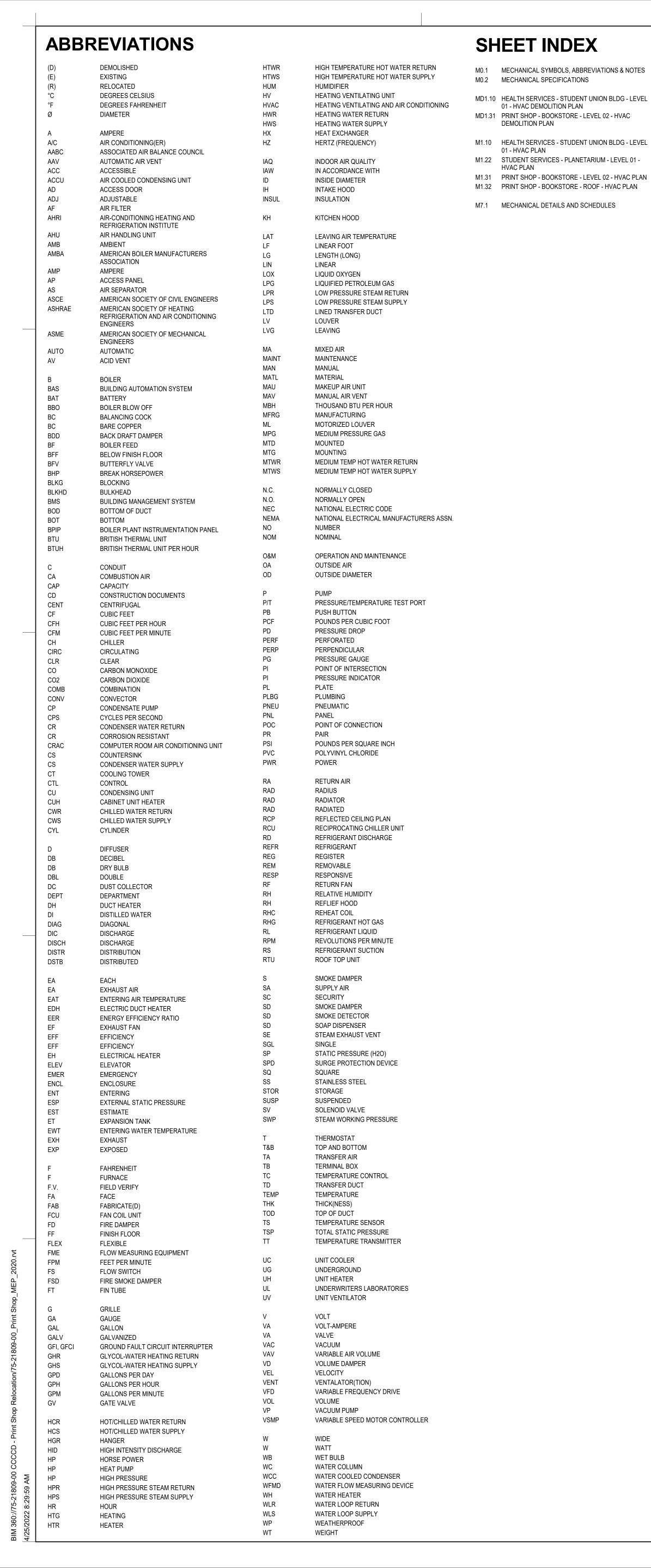
DLR GROUP PROJECT NUMBER: 75-21809-00

BOBRICK B-270 GAMCO 352 25 ASI 204684

**BRADLEY SA49** 

PALMER

FIXTURE RD0027 BOBRICK B-3644



|     | GENERAL SYMBOLS                                                                                                                                                                                                                                                                                                                                                        |                                                        |  |  |  |  |  |  |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--|--|--|--|--|--|
|     | <b>—</b>                                                                                                                                                                                                                                                                                                                                                               | POINT OF DISCONNECT - DEMOLITION REMOVED FROM EXISTING |  |  |  |  |  |  |
|     | <del></del>                                                                                                                                                                                                                                                                                                                                                            | POINT OF CONNECTION - NEW CONNECTS TO EXISTING         |  |  |  |  |  |  |
|     |                                                                                                                                                                                                                                                                                                                                                                        | AREA NOT IN CONTRACT                                   |  |  |  |  |  |  |
| GE  | NERAL NOTES                                                                                                                                                                                                                                                                                                                                                            |                                                        |  |  |  |  |  |  |
| 1 2 |                                                                                                                                                                                                                                                                                                                                                                        |                                                        |  |  |  |  |  |  |
| 3   | THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS, REPLACE THE FILTERS AND BELTS, INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVES AND FAN BEARINGS, MOTORS, CONTROL COMPONENTS, VALVES AND ANY OTHER ITEM NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM. THIS CONTRACTOR |                                                        |  |  |  |  |  |  |

SHALL ALSO VISIT THE SITE, PRIOR TO FINAL BIDDING, AND VERIFY ALL EXISTING SITE

CONDITIONS. PROVIDE ALL MATERIAL AND COMPONENTS AS NEEDED TO BRING THE

UNITS TO FULL COMPLIANCE OF THE LANDLORD'S CRITERIA AND LOCAL AUTHORITY

CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING

PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.

COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY,

THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE

REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL,

ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS

FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL

ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.

ABOVE ELECTRICAL PANELS. TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.

11 FIRE SEAL AROUND DUCT AND PIPING PENETRATIONS OF FIRE RATED WALLS. REFER TO

ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL

14 REFER TO PLUMBING SERIES DRAWINGS FOR GAS AND A.C. CONDENSATE DRAIN PIPING.

15 PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER

16 FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE

17 INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S

18 LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL

19 INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT

WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP

BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.

SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.

10 LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE

INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND

8 LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.

12 PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH

THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND

CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES,

STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.

INTERNATIONAL MECHANICAL CODE.

FOUNDATIONS, FLOORS, WALLS, AND ROOF.

CONSISTENT WITH THE SPECIFICATIONS.

EQUIPMENT.

SIZE IS SHOWN.

WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT

HAVING JURISDICTION.

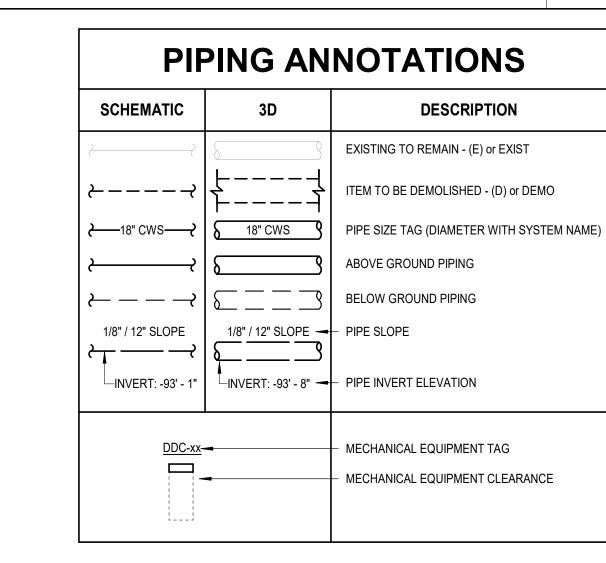
## **GENERAL HVAC NOTES**

- 1 SUPPLY AND RETURN PIPING TO COILS ARE THE SAME SIZE. 2 CONTRACTOR SHALL LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 48" AFF
- MAX, A MINIMUM OF 8" FROM LIGHT SWITCH. 3 REFER TO PIPING DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR
- 4 CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR
- SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE TYPE "L" COPPER.
- 5 ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE

|   | CLASS OF 2" W.G. UNLESS NOTED OTHERWISE.                                                                                                   | ~ |
|---|--------------------------------------------------------------------------------------------------------------------------------------------|---|
| 6 | THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS WITH RATING MERV 13A ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN |   |
|   | ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN                                                                           | ٧ |
|   | COMPLETED AND PRIOR TO THE FINAL PUNCH.                                                                                                    | L |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | HVAC S                      | SYMBOLS                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------|
| SCHEMATIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3D                          | DESCRIPTION                                                                                                             |
| <b>├</b> ── FEA ── <b>→</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | FEA                         | GAS FLUE EXHAUST AIR                                                                                                    |
| <b>⊱</b> — EA <b>—</b> →                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | EA                          | GENERAL EXHAUST AIR                                                                                                     |
| <b>├</b> GEA <b></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | GEA                         | GREASE EXHAUST AIR                                                                                                      |
| RELA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | RELA                        | RELIEF AIR                                                                                                              |
| > SEA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SEA SEA                     | SMOKE EXHAUST AIR  ENERGY RECOVERY AIR                                                                                  |
| RA ——                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RA L                        | RETURN AIR                                                                                                              |
| → TA ——                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TA \$                       | TRANSFER AIR                                                                                                            |
| <b>∠</b> — CA ——                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CA                          | COMBUSTION AIR                                                                                                          |
| → OA →                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DA }                        | OUTSIDE AIR                                                                                                             |
| <b>├</b> SA <b> </b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SA                          | SUPPLY AIR                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             | DIFFUSER (SUPPLY)                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             | GRILLE (RETURN)                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             | GRILLE (EXHAUST)                                                                                                        |
| <b>⊩</b> → [ ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                             | WALL REGISTER                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             | LINEAR DIFFUSER (SLOT)                                                                                                  |
| AFMS F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | AFMS r BDD r BDD            | AIR FLOW MEASURING STATION  BACKDRAFT DAMPER                                                                            |
| RD P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | RD r□→                      | BAROMETRIC RELIEF DAMPER DIFFERENTIAL PRESSURE SENSOR                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             | DUCT DETECTOR                                                                                                           |
| GD M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | GD r                        | GRAVITY DAMPER  MOTORIZED DAMPER                                                                                        |
| PR F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PR r →                      | PRESSURE REDUCING DAMPER SECURITY BARS                                                                                  |
| SP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SP r□-                      | STATIC PRESSURE SENSOR VOLUME DAMPER                                                                                    |
| RVD —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RVD r—                      | REMOTE VOLUME DAMPER                                                                                                    |
| F ▲—<br>FS ▲—                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | F A                         | FIRE DAMPER COMBINATION FIRE / SMOKE DAMPER                                                                             |
| s <b>A</b> —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | s <b>A</b>                  | SMOKE DAMPER                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\boxtimes$                 | ROUND DUCT UP                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\boxtimes$                 | RECTANGULAR DUCT UP                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\otimes$                   | OVAL DUCT UP                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             | ROUND DUCT DOWN                                                                                                         |
| <b></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             | RECTANGULAR DUCT DOWN                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             |                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             | OVAL DUCT DOWN                                                                                                          |
| Corre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             | MITERED ELBOW WITH VANES                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -<br>                       |                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             | MITERED ELBOW WITHOUT VANES                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1                           |                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <del>*</del>                | RADIUSED ELBOW                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | (c)                         |                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Care -                      | TEE WITH VANES                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             |                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             | RADIUSED TEE                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             |                                                                                                                         |
| }                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                             | DUCT WITH INSULATION                                                                                                    |
| <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                             | DUCT WITH LINING                                                                                                        |
| '<br>\$\frac{1}{2} \text{\$\frac{1}{2} \text{\$\frac{1} \text{\$\frac{1} \text{\$\frac{1} \text{\$\frac{1} \text{\$\frac{1} \$\frac{ | ,<br>XXX                    | DUCT IS FABRIC                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             | FLEXIBLE DUCT                                                                                                           |
| NAVAGA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             | TRANSFER DUCT                                                                                                           |
| (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2)                          | DUCT SMOKE DETECTOR                                                                                                     |
| <del>&lt;-</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <u> </u>                    | SUPPLY ARROW RETURN ARROW                                                                                               |
| <b>←</b> -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                             | EXHAUST ARROW                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 000                         | DOOR UNDERCUT ARROW WITH CFM                                                                                            |
| 12":                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -1 = x12" = CFM =           | DIFFUSER, REGISTER OR GRILLE TAG<br>NECK SIZE ( 00"x00" - SQ / RECT ) ( 0"ø ROUND )<br>AIR FLOW (CUBIC FEET PER MINUTE) |
| 24":                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | x12"                        | TYPICAL DUCT - SIZE AS INDICATED (WIDTH x DEPTH) SIZE INDICATED FREE AREA                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u> DDC-xx</u> <del> </del> | MECHANICAL EQUIPMENT TAG                                                                                                |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | •                           | MECHANICAL EQUIPMENT CLEARANCE                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | )<br>)<br>)<br>)            | CARBON DIOXIDE SENSOR - WALL MOUNTED                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | )<br>O2                     | CARBON DIOXIDE SENSOR - CEILING MOUNTED CARBON MONOXIDE SENSOR - WALL MOUNTED                                           |
| ©<br>©                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | )。                          | CARBON MONOXIDE SENSOR - CEILING MOUNTED                                                                                |
| Œ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | )                           | HUMIDISTAT - CEILING MOUNTED                                                                                            |
| Q                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | )<br>02                     | NITROGEN DIOXIDE SENSOR - WALL MOUNTED NITROGEN DIOXIDE SENSOR - CEILING MOUNTED                                        |
| e<br>E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | )                           | PRESSURE SENSOR - WALL MOUNTED PRESSURE SENSOR - CEILING MOUNTED                                                        |
| \$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | )<br>-                      | TEMPERATURE SENSOR - WALL MOUNTED                                                                                       |
| S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | )                           | THERMOSTAT - OF INDICATED                                                                                               |
| Œ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | )                           | THERMOSTAT - CEILING MOUNTED                                                                                            |

**HVAC SYMBOLS** 



| MECHA                      | NICAL F             | PIPING SYSTEMS                    |
|----------------------------|---------------------|-----------------------------------|
| SCHEMATIC                  | 3D                  | DESCRIPTION                       |
| <b>∠</b> —DFR—— <b>→</b>   | <b></b> DFR <b></b> | DIESEL FUEL RETURN                |
| <b>├</b> DFS               | DFS                 | DIESEL FUEL SUPPLY                |
| <b>DFV</b>                 | DFV                 | DIESEL FUEL VENT                  |
| <b>├</b> FOR <b>-</b>      | <b>FOR</b>          | FUEL OIL RETURN                   |
| FOS                        | FOS                 | FUEL OIL SUPPLY                   |
| FOV——                      | FOV                 | FUEL OIL VENT                     |
| <b>├</b> HPR               | HPR                 | HIGH PRESSURE STEAM RETURN        |
| <b>├</b> HPS               | E HPS HPS           | HIGH PRESSURE STEAM SUPPLY        |
| LPR                        | ELPR                | LOW PRESSURE STEAM RETURN         |
| LPS                        | LPS                 | LOW PRESSURE STEAM SUPPLY         |
| <b>∠</b> —MPR—— <b>→</b>   | MPR                 | MEDIUM PRESSURE STEAM RETURN      |
| MPS                        | MPS MPS             | MEDIUM PRESSURE STEAM SUPPLY      |
| sv                         | SV                  | STEAM VENT                        |
| <b>∠</b> —GWR <del>—</del> | GWR                 | GEOTHERMAL WATER RETURN           |
| <b>∠</b> —GWS——            | <b></b> GWS <b></b> | GEOTHERMAL WATER SUPPLY           |
| <b>≻</b> HRWR <b>─</b>     | E HRWR S            | HEAT RECOVERY WATER RETURN        |
| HRWS—                      | HRWS HRWS           | HEAT RECOVERY WATER SUPPLY        |
| HTWR—                      | E HTWR              | HIGH TEMPERATURE HOT WATER RETURN |
| HTWS—                      | HTWS                | HIGH TEMPERATURE HOT WATER SUPPLY |
| <b>∠</b> —HWR—— <b>→</b>   | HWR <b>3</b>        | HOT WATER RETURN                  |
| <b>⊱</b> —HWS——            | HWS                 | HOT WATER SUPPLY                  |
| <b>←</b> HCR <b>←</b>      | HCR                 | HOT / CHILLED WATER RETURN        |
| <b>├</b> HCS               | —HCS                | HOT / CHILLED WATER SUPPLY        |
| <b>—</b> WLR—— <b>?</b>    | WLR                 | WATER LOOP RETURN                 |
| <b>∠</b> wLS               | WLS                 | WATER LOOP SUPPLY                 |
| <b>∠</b> RD <b>~</b>       | RD                  | REFRIGERANT DISCHARGE             |
| <b>⊱</b> RHG—→             | RHG                 | REFRIGERANT HOT GAS               |
| RL                         | RL                  | REFRIGERANT LIQUID                |
|                            | RS                  | REFRIGERANT SUCTION               |
| <b>₹</b> —RV——             | RV                  | REFRIGERANT VENT                  |
| <u></u> CWR——-             | CWR                 | CHILLED WATER RETURN              |
| ⊱—cws——                    | cws <b>_</b>        | CHILLED WATER SUPPLY              |
| <b>∠</b> —_CR—— <b>~</b>   | CR                  | CONDENSER WATER RETURN            |
| <b>∠</b> cs                | cs                  | CONDENSER WATER SUPPLY            |
| <u>`</u> CD                | CD                  | CONDENSATE DRAIN                  |
| •                          |                     |                                   |

| SCHEMATIC                                                                    | 3D             | DESCRIPTION                                          |
|------------------------------------------------------------------------------|----------------|------------------------------------------------------|
| <b>c</b> →                                                                   | 8 0            | PIPE DROP                                            |
| <b>├──</b> ○                                                                 |                | PIPE RISE                                            |
| <b>├── ○</b>                                                                 | 8 (2) 3        | PIPE TEE DOWN                                        |
| <b>├</b>                                                                     |                | PIPE TEE UP                                          |
| <b>├──</b>                                                                   |                | CONCENTRIC REDUCER                                   |
| <b>├</b>                                                                     |                | ECCENTRIC REDUCER                                    |
|                                                                              |                | PIPE CAP                                             |
|                                                                              |                | PIPE ALIGNMENT GUIDE                                 |
| <u> </u>                                                                     |                | PIPE ANCHOR                                          |
|                                                                              |                | FLOW DIRECTION                                       |
|                                                                              |                | EXPANSION JOINT                                      |
|                                                                              |                | FLEXIBLE CONNECTION                                  |
|                                                                              |                | UNION                                                |
|                                                                              |                |                                                      |
|                                                                              |                | DIRECTION OF PIPE PITCH                              |
| <b>←</b>                                                                     |                | AQUASTAT                                             |
|                                                                              |                | EXPANSION LOOP                                       |
| <b>₹</b>                                                                     |                | BALANCING VALVE                                      |
| <b>;</b>                                                                     |                | BALANCING VALVE W/ METERING POINTS                   |
| <b>⊱</b> ——1 <b>6</b> 1——>                                                   |                | BALL VALVE                                           |
| <b>├──────────</b>                                                           |                | BUTTERFLY VALVE                                      |
| $\longleftarrow \longleftarrow$                                              | <b>₩</b>       | CHECK VALVE                                          |
| $\geq \hspace{-2mm} - \hspace{-2mm} \otimes \hspace{-2mm} - \hspace{-2mm} >$ |                | STEAM TRAP                                           |
| <b>├──▼</b>                                                                  | <del>-  </del> | GATE VALVE                                           |
| <b>├───</b>                                                                  |                | CIRCUIT SETTER                                       |
| H\$                                                                          |                | MANUAL AIR VENT                                      |
| <del></del>                                                                  |                | AUTOMATIC AIR VENT                                   |
| <b>₩</b>                                                                     |                | PLUG VALVE                                           |
| <b>♥</b>                                                                     |                | PRESSURE GAUGE                                       |
| <b>├</b>                                                                     | <u> </u>       | SOLENOID VALVE                                       |
| <b>₹</b>                                                                     |                | ANGLE VALVE                                          |
| `                                                                            |                | AUTOMATIC CONTROL VALVE 2-WAY                        |
| <b>├</b>                                                                     |                | AUTOMATIC CONTROL VALVE 3-WAY                        |
| Ţ                                                                            |                |                                                      |
| <u>}</u>                                                                     |                | AUTOMATIC FLOW CONTROL VALVE                         |
|                                                                              |                | STRAINER                                             |
|                                                                              |                | PRESSURE AND TEMPERATURE TEST PORT                   |
|                                                                              |                | THERMOMETER                                          |
| `                                                                            |                | PRESSURE REDUCING VALVE (WATER SYSTEMS)              |
| <b>≱</b> →                                                                   |                | PRESSURE REGULATING VALVE (GAS SYSTEMS) RELIEF VALVE |
|                                                                              |                |                                                      |
|                                                                              |                | FLOW MEASURING DEVICE                                |

BACKFLOW PREVENTER

**₩**₩

PIPING VALVES AND FITTINGS

DSA APPROVAL STAMP

DSA APP: 01-119997 DSA FILE: 07-C1

tudent SS ho ea

**ADDENDUM 1** 

04/22/2022 Revisions 04/22/2022

ADDENDUM 1

DLR GROUP PROJECT NUMBER: SHEET NOTES

MECHANICAL SYMBOLS, ABBREVIATIONS & NOTES

\* NOTE \* ALL NOTES ON THIS SHEET ARE APPLICABLE TO ALL OTHER SHEETS IN THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE APPLICABLE IN THIS SET OF

DRAWINGS.

DSA APP: 01-119997 DSA FILE: 07-C1

**LEGEND AND NOTES** 

SHEET NOTES

1 DEMO DIFFUSERS AND DUCT. CAP DUCT ABOVE CEILING AND DECOMMISSION MAKEUP AIR UNIT (MAU-1) ON ROOF.

2 DEMO OVEN HOOD AND DUCT. CAP DUCT ABOVE CEILING AND DECOMMISSION EXHAUST FAN (EF-1) ON ROOF.

DSA APPROVAL STAMP

DVC - Print Shop, Student Success, & Health Services Renovation

ADDENDUM 1

04/22/2022 Revisions ADDENDUM 1

DLR GROUP PROJECT NUMBER: SHEET NOTES

HEALTH SERVICES -STUDENT UNION BLDG -LEVEL 01 - HVAC DEMOLITION PLAN

MD1.10

STUDENT UNION BLDG - LEVEL 01 - HVAC DEMOLITION PLAN

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

235 M

DSA APPROVAL STAMP

**LEGEND AND NOTES** 

SHEET NOTES

1) PROVIDE 24"x24" LAY-IN DIFFUSER TITUS MODEL MCD.

2 PROVIDE VAV DIFFUSER TITUS MODEL T3SQ-M AND THE POWER MODULE 120/24VAC TRANSFOMRER (T3PM120).

3 PROVIDE 12"x12" DIFFUSER TITUS MODEL MCD. PROVIDE TRM TITUS RAPID MOUNT FRAME FOR LAY-IN INSTALLATION.

PROVIDE 22"x22" GRILLE TITUS MODEL 350RL. PROVIDE TRM TITUS RAPID MOUNT FRAME FOR LAY-IN INSTALLATION.

PROVIDE 16"x16" DIFFUSER TITUS MODEL PAR. PROVIDE TRM TITUS RAPID MOUNT FRAME FOR LAY-IN INSTALLATION.

6 REPLACE NOT WORKING OSA TEMPERATURE SENSOR AT THE (E)AC-7 WITH A NEW AND VERY THE NEW SENSOR IS WORKING AT THE BMS.

7 VERIFY EXISTING DUCT SMOKE DETECTORS AT THE RETURN AND SUPPLY DUCT ARE IN GOOD WORKING CONDITION.

DSA APP: 01-119997 DSA FILE: 07-C1

it es

VC - Print Shop, Student uccess, & Health Services enovation

ADDENDUM 1

04/22/2022 Revisions 1 04/22/2022 ADDENDUM 1

DLR GROUP PROJECT NUMBER: SHEET NOTES

HEALTH SERVICES -STUDENT UNION BLDG -LEVEL 01 - HVAC PLAN

M1.10

N

STUDENT UNION BLDG - LEVEL 01 - HVAC PLAN

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

**LEGEND AND NOTES** 

DSA APPROVAL STAMP

NOT FOR TION CONSTRUCTION

PLR Group Up

SHEET NOTES

PROVIDE 12"x12" (400 CFM) EXHAUST GRILLE TITUS MODEL 350FL.

DSA APP: 01-119997 DSA FILE: 07-C1

Cess, & Health Services ovation

ADDENDUM 1

04/22/2022 Revisions 1 04/22/2022 ADDENDUM 1

DLR GROUP PROJECT NUMBER: SHEET NOTES

PRINT SHOP - BOOKSTORE -LEVEL 02 - HVAC PLAN

M1.31

N

BOOKSTORE - LEVEL 02 - HVAC PLAN

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

BOOKSTORE - ROOF - HVAC PLAN

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

**LEGEND AND NOTES** 

DSA APPROVAL STAMP

SHEET NOTES

1 PROVIDE EXHAUST FAN GREENHECK MODEL G-090-VG, 400 CFM, 0.5 ESP, 115V/1PH/60HZ, 0.1 HP MOTOR, AND BACKDRAFT DAMPER EXTABOLY FAN SHALL BE INTERLOCKED WITH (E)AC-2.

DSA APP: 01-119997 DSA FILE: 07-C1

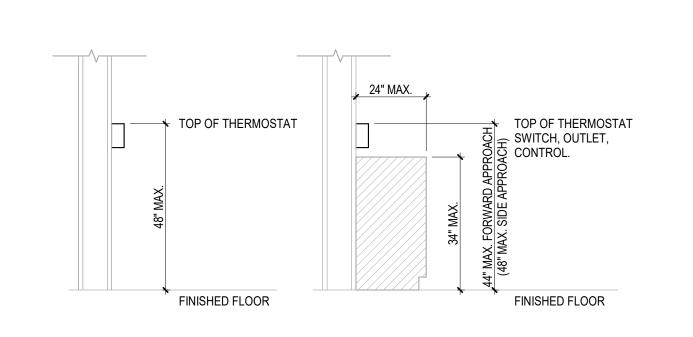
ADDENDUM 1

04/22/2022 Revisions ADDENDUM 1

DLR GROUP PROJECT NUMBER: SHEET NOTES

PRINT SHOP - BOOKSTORE -ROOF - HVAC PLAN

M1.32



3 ADA MOUNTING HEIGHT DETAIL

M7.1 NO SCALE

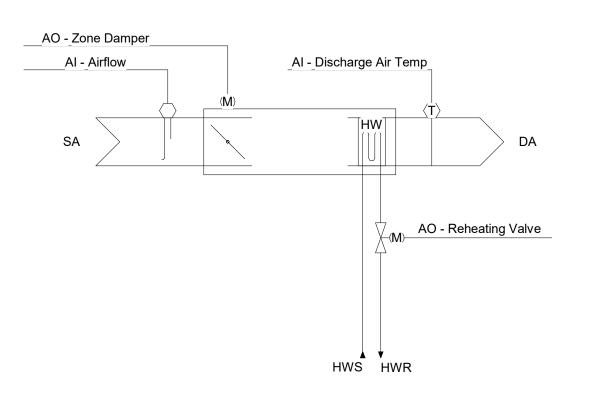
5'-0"L INSULATED FLEXIBLE DUCT -INSTALLED WITH INNER DUCT STRETCHED TAUT (TAKE UP SLACK) SECURE TO STRUCTURE ABOVE. REFER TO TYPICAL HANGER WIRE DETAIL 15 / S6.2, FLEX DUCT @ T-BAR CEILINGS (USE HARD DUCT @ GWB CEILINGS) -24 / S6.2, AND 25 / S6.3. PROVIDE 1" WIDE BAND CLAMP 3/8" BAND ON DUCT COLLARS (TYP) PULL BACK JACKET & INSULATION FROM CORE. DUCT COLLECT EXCESS INNER DUCT PAST COLLAR BEAD UNTIL MANUAL VOLUME DAMPER FULLY STRETCHED, THEN WRAP AT LEAST TWICE AROUND CONSTRUCT/INSTALLED PER WITH APPROVED DUCT TAPE. SECURE WITH APPROVED CLAMP. SMACNA HVAC DUCT PULL JACKET & INSULATION BACK OVER THE CORE. SECURE CONSTRUCTION STANDARDS JACKET WITH TWO WRAPS OF DUCT TAPE OR AN APPR. CLAMP. TUCK IN EDGE OF JACKET OR TAPE. —— 3/8" BEAD ON DUCT COLLAR FOR ATTACHING FLEX. DUCT (TYP) -FASTENERS, ALL SIDES CENTERLINE TURNING RADIUS TYPICAL ALL FLEXIBLE DUCT EARTHQUAKE TAB -INSTALLATION - TWO DUCT DIAMETERS 12 GUAGE SECURITY OF STRAIGHT DUCT WIRE (TYP. 3) — LAY-IN CEILING DIFFUSER / CEILING TILE NOTE: USE WHERE CLEAR HEIGHT IN CEILING SPACE ALLOWS 2-DUCT DIAMETERS OF STRAIGHT VERTICAL DUCT.

- EXHAUST FAN INSTALL AIR TIGHT -RUBBER SEAL PROVIDE 1/4" RUBBER ─ 1/4" WIRE MESH SCREEN GASKET SEAL (TYP.) COUNTER FLASHING MOUNT FAN ON CURB WITH LAG PRE-FABRICATED SCREWS (MIN. 2 PER SIDE) ROOF CURB CANT STRIP FLASHING BY G.C. (E)ROOF PROVIDE BACKDRAFT -DAMPER IN DUCT FLEXIBLE DUCT CONNECTION TO EXHAUST FAN. NOTE: 1. PROVIDE MINIMUM LENGTH EQUAL TO 3X FAN DIAMETER OF STRAIGHT DUCT AT FAN INLET OR STRAIGHT LENGTH AS RECOMMENDED BY FAN MANUFACTURER, WHICHEVER IS MORE STRINGENT.

**CEILING SUPPLY DIFFUSER CONNECTION DETAIL** M7.1 NO SCALE

1 DOWNBLAST EXHAUST FAN M7.1 NO SCALE

#### (E)VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE NOTES: PLANETARIUM 130 F (E)VAV-9 PRINT SHOP 300 CFM 870 CFM 430 CFM 1.1 GPM (E)VAV-10 PRINT SHOP 250 CFM 780 CFM 390 CFM 1.0 GPM 300 CFM 945 CFM



AI - Zone Temp

|                  | HARDWARE POINTS |    |    | SOFTWARE POINTS |    |    |      |       |       |       |                 |
|------------------|-----------------|----|----|-----------------|----|----|------|-------|-------|-------|-----------------|
| POINT NAME       | Al              | AO | BI | ВО              | AV | BV | LOOP | SCHED | TREND | ALARM | SHOW ON GRAPHIC |
| AIRFLOW          | Х               |    |    |                 |    |    |      |       | Х     |       | Х               |
| ZONE TEMP        | Х               |    |    |                 |    |    |      |       | Х     |       | Х               |
| REHEATING VALVE  |                 | Х  |    |                 |    |    |      |       | Х     |       | Х               |
| ZONE DAMPER      |                 | Х  |    |                 |    |    |      |       | Х     |       | Х               |
| AIRFLOW SETPOINT |                 |    |    |                 | Х  |    |      |       | Х     |       | Х               |
| COOLING SETPOINT |                 |    |    |                 | Х  |    |      |       | Х     |       | X               |
| HEATING SETPOINT |                 |    |    |                 | Х  |    |      |       | Х     |       | Х               |
| HEATING MODE     |                 |    |    |                 |    | Х  |      |       | Х     |       |                 |
| SCHEDULE         |                 |    |    |                 |    |    |      | Х     |       |       |                 |
| HIGH ZONE TEMP   |                 |    |    |                 |    |    |      |       |       | Х     |                 |
| LOW ZONE TEMP    |                 |    |    |                 |    |    |      |       |       | Х     |                 |
|                  |                 |    |    |                 |    |    |      |       |       |       |                 |
| TOTALS           | 2               | 2  | 0  | 0               | 3  | 1  | 0    | 1     | 8     | 2     | 7               |

VARIABLE AIR VOLUME - VAV

RUN CONDITIONS - SCHEDULED: THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE

FOLLOWING MODES: OCCUPIED MODE: THE UNIT SHALL MAINTAIN A 75°F (ADJ.) COOLING SETPOINT

A 70°F (ADJ.) HEATING SETPOINT.

 UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN A 85°F (ADJ.) COOLING SETPOINT.

 A 55°F (ADJ.) HEATING SETPOINT. ALARMS SHALL BE PROVIDED AS FOLLOWS:

 HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.). LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

REVERSING VARIABLE VOLUME TERMINAL UNIT - FLOW CONTROL: THE UNIT SHALL MAINTAIN ZONE SETPOINTS BY CONTROLLING THE AIRFLOW THROUGH ONE OF THE FOLLOWING:

 WHEN ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIÈD. WHEN THE ZONE TEMPERATURE IS BETWEEN THE COOLING SETPOINT AND THE HEATING SETPOINT, THE ZONE DAMPER SHALL MAINTAIN THE MINIMUM REQUIRED ZONE VENTILATION (ADJ.). WHEN ZONE TEMPERATURE IS LESS THAN ITS HEATING SETPOINT, THE CONTROLLER SHALL ENABLE HEATING TO MAINTAIN THE ZONE TEMPERATURE AT ITS HEATING SETPOINT. ADDITIONALLY, IF WARM AIR IS AVAILABLE FROM THE AHU, THE ZONE DAMPER SHALL MODULATE BETWEEN

AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED. WHEN THE ZONE IS UNOCCUPIED THE ZONE DAMPER SHALL CONTROL TO ITS

THE MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM HEATING

MINIMUM UNOCCUPIED AIRFLOW (ADJ.). WHEN THE ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT. THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM UNOCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED. WHEN ZONE TEMPERATURE IS LESS THAN ITS UNOCCUPIED HEATING SETPOINT, THE CONTROLLER SHALL ENABLE HEATING TO MAINTAIN THE ZONE TEMPERATURE AT THE SETPOINT. ADDITIONALLY, IF WARM AIR IS AVAILABLE FROM THE AHU, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM UNOCCUPIED AIRFLOW (ADJ.) AND THE AUXILIARY HEATING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.

REHEATING COIL VALVE: THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE REHEATING COIL VALVE OPEN ON DROPPING TEMPERATURE TO MAINTAIN ITS

WHEN COLD AIR IS AVAILABLE FROM THE AHU AND THERE IS NO FAN PRESENT IN THE BOX, THE ZONE DAMPER SHALL MODULATE TO THE MINIMUM OCCUPIED AIRFLOW (ADJ.). IF MORE HEAT IS REQUIRED, THE ZONE DAMPER SHALL MODULATE TO THE AUXILIARY HEATING AIRFLOW (ADJ.).

4 SEQUENCE OF OPERATION - VAV M7.1 NO SCALE

DSA APPROVAL STAMP

DSA APP: 01-119997 DSA FILE: 07-C1

Student Services hop, lealth

**ADDENDUM 1** 

04/22/2022 Revisions

ADDENDUM 1 04/22/2022

DLR GROUP PROJECT NUMBER: SHEET NOTES

MECHANICAL DETAILS AND SCHEDULES

M7.1

# **SHEET INDEX**

**ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES** 

TITLE 24 FORMS

TITLE 24 FORMS

TITLE 24 FORMS

HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 01 - LIGHTING PLAN

HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 1 EM PHOTOMETRICS

STUDENT SERVICES - BUSINESS/FOREIGN LANGUAGE BLDG AND PAC - LEVEL 01 - LIGHTING PLANS STUDENT SERVICES - BUSINESS/FOREIGN LANGUAGE

HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 01 - POWER PLAN

BLVD AND PAC - LEVEL 01 EM PHOTOMETRICS

STUDENT SERVICES - BUSINESS/FOREIGN LANGUAGE BLDG AND PAC - LEVEL 01 - POWER PLANS

E2.22 STUDENT SERVICES - PLANETARIUM - LEVEL 01 -POWER PLAN PRINT SHOP - BOOKSTORE - LEVEL 02 - POWER PLAN

PRINT SHOP - BOOKSTORE - ROOF -POWER ELECTRICAL SCHEDULES

HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 1 **ELECTRICAL DEMOLITION PLAN** 

STUDENT SERVICES - BUSINESS/FOREIGN LANGUAGE

BLDG - LEVEL 1 ELECTRICAL DEMOLITION PLAN

STUDENT SERVICES - LEARNING CENTER - LEVEL 1 **ELECTRICAL DEMOLITION PLAN** 

# CAL GREEN BUILDING CODE

1. A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL SYSTEMS SHALI BE COMPLETED PRIOR TO FINAL APPROVAL BY THE FIELD INSPECTOR. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.

2. AN OPERATION AND SYSTEMS MANUAL SHALL BE PROVIDED TO THE OWNER OR REPRESENTATIVE AND TO THE FIELD INSPECTOR AT THE TIME OF FINAL

3. FOLLOW ALL REQUIREMENTS OUTLINED ON THIS SPEC 260800 FOR COMMISSIONING

# ᡊᢇᠬᠬᢇᠬᠬᢇᠬᢇᠬᢇᠬᢇᠬ LIGHTING CONTROLS PROGRAMMING

FURNISH COPIES OF CONSTRUCTION DOCUMENTS, ADDENDA, CHANGE ORDERS, AND APPROVED SUBMITTALS AND DESIGN DRAWINGS RELATED TO LIGHTING CONTROLS EQUIPMENT TO CLIENT. PROVIDE ADDITIONAL REQUESTED DOCUMENTATION, PRIOR TO NORMAL O&M MANUAL SUBMITTALS, TO CLIENT FOR DEVELOPMENT OF START-UP AND

FUNCTIONAL TEST PROCEDURES. HELP DEVELOP START-UP AND CHECKOUT PLAN FOR LIGHTING CONTROLS EQUIPMENT BASED ON MANUFACTURER'S RECOMMENDATIONS AND PRE-FUNCTIONAL TEST PROCEDURES FROM CA. DURING START-UP AND CHECKOUT PROCESS. EXECUTE PRE-FUNCTIONAL CHECKLISTS FOR LIGHTING CONTROLS EQUIPMENT

CLIENT, FOR COMMISSIONED EQUIPMENT. RESOLVE EQUIPMENT OR SYSTEM DEFICIENCIES AND RETEST AS REQUIRED TO VERIFY COMPLICIT CONFORMANCE TO CONTRACT DOCUMENTS. ADDITIONAL COSTS INCURRED BY RETESTING TO THE RESPONSIBILITY OF THE PARTY WHO SIGNS OFF ON PRE-FUNCTIONAL CHECKLISTS. PREPARE 0&M MANUALS ACCORDING TO CONTRACTO DOCUMENTS, INCLUDING UPDATING ORIGINAL SEQUENCE OF OPERATIONS TO RECORD

PERFORM FUNCTIONAL PERFORMANCE TESTING, UNDER DIRECTION OF

PROVIDE TRAINING OF OWNER'S OPERATING PERSONNEL STANDARD TESTING EQUIPMENT REQUIRED TO PERFORM START-UP AND INITIAL CHECKOUT REQUIRED FUNCTIONAL PERFORMANCE TESTING TO BE PROVIDED B DIVISION CONTRACTOR FOR EQUIPMENT BEING TESTED. LIGHTING IS PROVIDED THROUGH LED'S AND CONTROLLED THROUGH LOCAL DIMMING IN ALL SPACES. THIS IS IN ADDITION TO OCCUPANCY SENSORS THROUGHOUT THE SPACE PROVIDING AUTOMATIC SHUT-OFF CONTROLS.

\* NOTE \*

APPLICABLE TO ALL OTHER SHEETS IN

THE SYMBOLS AND ABBREVIATIONS

SHOWN ON THIS SHEET MAY OR MAY

NOT BE APPLICABLE IN THIS SET OF

DRAWINGS.

ALL NOTES ON THIS SHEET ARE

## **GENERAL NOTES**

1 MODIFICATIONS TO EXISTING POWER DISTRIBUTION EQUIPMENT: MATCH EXISTING MANUFACTURER, SWITCH TYPE, FUSE TYPE, BREAKER TYPE AND KAIC RATING FOR ALL

EXISTING PANEL DIRECTORIES AT PANELS AFFECTED BY WORK: PROVIDE UPDATED PED PANEL DIRECTORY. CONSULT OWNER FOR INPUT ON LABELING OF ALL EXISTING

DEVICES AND LIGHT FIXTURES DENOTED 'ER' ARE EXISTING TO BE RELOCATED. NOTIFY A/E IF DEVICES OR FIXTURES ARE DAMAGED.

## GENERAL SITE DEMOLITION NOTES

1 SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION. 2 DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN

## **GENERAL POWER NOTES**

DEMOLITION AREAS UNLESS NOTED OTHERWISE.

1 VERIFY ANY NEUTRAL WIRES REQUIRED ON 1Ø OR 3Ø MECHANICAL UNITS FURNISHED UNDER DIVISION 23. IF REQUIRED, PROVIDE NEUTRAL.

3 COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

PROVIDE DEDICATED 120-VOLT CIRCUITS TO ALL HVAC BAS CONTROL DEVICES AND PANELS. COORDINATE QUANTITY WITH DIVISION 23. UTILIZE NEAREST SPARE 120-VOLT, 20/1 BREAKER. LABEL TYPED PANEL DIRECTORY ACCORDING TO LOAD BEING SERVED.

IN ADDITION TO DEVICES SHOWN, SEE SCHEDULE SHEETS FOR CONNECTIONS TO ALL MECHANICAL EQUIPMENT LOCATE SWITCHES FOR CONTROL OF FANS IN TWO-GANG BOX WITH LIGHT

SWITCH WHERE APPLICABLE. PROVIDE #10AWG CONDUCTORS FOR ALL WARM AIR DRYER CIRCUITS. PROVIDE LOCKOUT DEVICE AT ALL BREAKERS SERVING WARM AIR DRYERS.

## **GENERAL LIGHTING NOTES**

1 SEE LIGHT FIXTURE SCHEDULE AND SYMBOLS LEGEND FOR MOUNTING HEIGHTS, UNLESS NOTED OTHERWISE. PROVIDE #10AWG MINIMUM CONDUCTORS FOR ALL EXTERIOR LIGHTING CIRCUITS. SEE ARCHITECTURAL BUILDING ELEVATIONS FOR LOCATION OF BUILDING MOUNTED

EXTERIOR LIGHT FIXTURES. 4 PROVIDE BEAD OF SILICON SEALANT AROUND RECESSED BACK BOX PERIMETER AT ALL BUILDING MOUNTED EXTERIOR LIGHT FIXTURE LOCATIONS. CIRCUIT FIXTURES DENOTED WITH 'NL' AS UNSWITCHED NIGHT LIGHTS.

FIXTURES DENOTED WITH LOWER CASE LETTERS SHALL BE CONTROLLED BY SWITCHES DENOTED WITH THE SAME LOWER CASE LETTER IN EACH ROOM.

## GENERAL DEVICE BOX NOTES

1 SEE SYMBOLS LEGEND THIS SHEET FOR MOUNTING HEIGHTS UNLESS NOTED OTHERWISE

2 ALL MOUNTING HEIGHTS ARE TO CENTERLINE OF BOXES UNLESS NOTES OTHERWISE. 3 PROVIDE BOX EXTENDER FOR FLUSH INSTALLATION OF DEVICES LOCATED IN ARCHITECTURAL CASEWORK THAT IS FLUSH WITH ADJACENT WALL (SUCH AS RECEPTACLES FOR GARBAGE DISPOSERS).

4 FLOOR BOXES: OBTAIN OWNER APPROVAL OF ALL BOX LOCATIONS PRIOR TO ROUGH IN. PROVIDE DEVICE PLATES AT DEVICES AND BLANK PLATES AT ALL UNUSED COMPARTMENTS. COORDINATE LOCATION OF DEVICE BOXES FOR SWITCHES, RECEPTACLES, AND

SYSTEMS DEVICES WITH MARKERBOARDS. ADJUST BOX LOCATIONS TO AVOID COORDINATE LOCATION OF DEVICE BOXES FOR SWITCHES, RECEPTACLES, AND SYSTEMS DEVICES WITH TACKBOARDS. ADJUST BOX LOCATIONS TO AVOID

TACKBOARDS. PROVIDE BOX EXTENDER FOR A FLUSH INSTALLATION WHERE DEVICES. MUST BE MOUNTED AT TACKBOARD/TACKWALL CEILING MOUNTED RECEPTACLES: AT SUSPENDED CEILINGS, ROUTE POWER TO RECEPTACLE VIA FLEXIBLE METALLIC CONDUIT WITH 6-FOOT SERVICE LOOP. FEED FMC FROM A J-BOX RIGIDLY SUPPORTED A MAXIMUM OF 24-INCHES ABOVE SUSPENDED

CEILING OR AT BOTTOM OF STRUCTURE ABOVE, WHICHEVER IS LOWER. LOCATE J-BOX

DIRECTLY ABOVE RECEPTACLE AND SUPPORT VIA STRUCTURE, OR VIA THREAD ROD AND

UNISTRUT HUNG FROM STRUCTURE ABOVE IN HIGH STRUCTURE APPLICATIONS. DEVICES RECESSED IN MULLIONS: BACK BOXES TO BE RECESSED FOR FLUSH NSTALLATION OF DEVICE AND WALLPLATE. EXTEND CONCEALED CONDUIT IN MULLION UP TO WALL ABOVE AND STUB OUT ABOVE ACCESSIBLE CEILING. IN AREAS WITH NO CEILING, EXTEND CONDUIT TOWARDS CABLING SOURCE TO ABOVE NEAREST

## **GENERAL SYSTEMS NOTES**

1 TELECOMMUNICATIONS OUTLETS: PROVIDE TWO-GANG BOX (2.25-INCH DEEP MINIMUM) WITH SINGLE-GANG STRAP MOUNT PLASTER RING AND 1-INCH CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE FINISHED CEILING (EXCEPTION: VOICE-ONLY OR VIDEO-ONLY OUTLETS PER NOTE BELOW).

TELECOMMUNICATIONS OUTLET INDICATED AS ROUGH IN ONLY (NO SUBSCRIPTS): INSTALL PER NOTE ABOVE, WITH BLANK 302SS SINGLE-GANG

VOICE-ONLY OR VIDEO-ONLY TELECOMMUNICATIONS OUTLET: PROVIDE SINGLE-GANG BOX WITH 1-INCH CONDUIT STUBBED INTO ACCESSIBLE SPACE

ABOVE FINISHED CEILING. MISCELLANEOUS LOW VOLTAGE OUTLETS (CALL STATIONS, HANDSETS, VOLUME CONTROL, MICROPHONE OUTLETS, SURFACE-MOUNT WALL SPEAKERS AND FIRE ALARM DEVICES): PROVIDE SINGLE-GANG BOX WITH 3/4-INCH CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE FINISHED CEILING.

INSULATED BUSHINGS: PROVIDE BUSHINGS ON ALL CONDUIT STUB UPS, INCLUDING BUT NOT LIMITED TO. OUTLETS FOR TELECOMMUNICATIONS. FIRE ALARM, SECURITY, ACCESS CONTROL, MASS NOTIFICATION, PUBLIC ADDRESS ALL OTHER LOW VOLTAGE INTERCOMMUNICATIONS AND UNUSED STUB-UPS OF STUB-UPS INDICATED FOR FUTURE USE. FLOOR BOXES CONTAINING TELECOMMUNICATIONS OUTLETS: FOR EACH

FINISHED CEILING. LABEL CONDUIT END 'FLOOR BOX' 7 SLEEVES FOR LOW VOLTAGE CABLES: PROVIDE 2-INCH SLEEVES UNLESS NOTED OTHERWISE. COORDINATE WITH PATH OF DUCTWORK AND GWB CEILING TO ENSURE ACCESSIBILITY, EXTEND SLEEVES AS REQUIRED. INSTALL ALL SLEEVES 4-INCHES ABOVE HIGHER CEILING OF TWO ADJACENT SPACES. REFER TO ROOM FINISH SCHEDULES AND REFLECTED CEILING PLANS FOR CEILING HEIGHTS. STUB SLEEVES INTO JOIST SPACE OF FINISHED ROOMS WITH EXPOSED STRUCTURE. PROVIDE INSULATED BUSHINGS ON BOTH ENDS OF ALL SLEEVES INCLUDING UNUSED SLEEVES. PROVIDE GROUT OR ESCUTCHEONS TO SECURE

LOW-VOLTAGE COMPARTMENT, ROUTE 1-INCH CONDUIT WITH PULL STRING

UNDERFLOOR, UP NEAREST WALL, AND STUB INTO ACCESSIBLE SPACE ABOVE

SLEEVES TO WALL. PROVIDE FIRE-RATED SLEEVES AT ALL FIRE-RATED WALLS. PROVIDE ADDITIONAL CONDUIT, BOXES, CONDUCTORS AND OVERCURRENT PROTECTION FOR 120-VOLT BRANCH CIRCUITS NOT SPECIFICALLY COVERED UNDER DIVISION 26 WORK, BUT REQUIRED TO COMPLETE DIVISION 08 AND 28 WORK. DEVICES SHALL INCLUDE, BUT NOT BE LIMITED TO, POWER SUPPLIES FOR DOOR HARDWARE, ACCESS CONTROL, FIRE ALARM AND VIDEO

9 PROVIDE WATERFALL DROPOUTS AT ALL CABLE TRAY LOCATIONS ABOVE RUNWAYS, WALL/FLOOR MOUNTED RACKS, AND EQUIPMENT ENCLOSURES. 10 AUDIO VISUAL (AV) SYSTEMS: PROVIDE RECESSED BOXES, CONDUIT AND PULL

# **GENERAL DEMOLITION NOTES**

STRINGS FOR ALL SYSTEM COMPONENTS.

1 ITEMS INDICATED ON DEMOLITION PLANS ARE BASED ON AS-BUILT DRAWINGS AND FIELD OBSERVATIONS AND ARE INTENDED TO GIVE THE BIDDER A GENERAL REPRESENTATION OF EXISTING CONDITIONS.

REMOVE ALL ITEMS SHOWN FULL-TONE OR NOTED ELSEWHERE IN THE DOCUMENTS TO BE REMOVED OR DEMOLISHED. DEMOLISH ADDITIONAL ITEMS NOT SHOWN ON DRAWINGS, BUT WHICH MUST BE REMOVED TO COMPLETE THE PROJECT. ITEMS SHOWN HALF-TONE ARE EXISTING TO REMAIN.

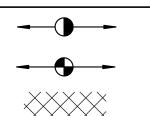
4 RELOCATE ITEMS DENOTED 'ER'. SEE LIGHTING, POWER AND/OR SPECIAL SYSTEM SHEETS FOR NEW LOCATIONS. 'ER' IS DEFINED AS EXISTING (TO BE) RELOCATED. EXISTING CONDUIT MAY REMAIN IF ALL THE FOLLOWING ARE TRUE: A. IT CAN BE REUSED TO FEED DEVICES INSTALLED UNDER THIS CONTRACT.

 IT DOES NOT INTERFERE WITH OTHER TRADES. C. IT WAS ORIGINALLY INSTALLED MEETING SPECIFICATIONS RELATED TO THIS PROJECT. D. IT WILL NOT BE EXPOSED IN A FINISHED AREA (UNLESS NOTED OTHERWISE).

PROVIDE ELECTRICAL DEMOLITION ASSOCIATED WITH MECHANICAL EQUIPMENT TO BE REMOVED. IN ADDITION TO DEVICES SHOWN, REFER TO MECHANICAL AND ARCHITECTURAL DEMOLITION SHEETS TO DETERMINE EQUIPMENT TO BE REMOVED. 6.MAINTAIN FUNCTIONALITY OF ALL EXISTING LOW VOLTAGE SYSTEMS INCLUDING. BUT NOT LIMITED TO, TELECOM CABLING NETWORKS, INTERCOM, CLOCKS, FIRE ALARM, SAFETY AND SECURITY DURING ALL PHASES OF CONSTRUCTION. PROVIDE TEMPORARY

INTERCONNECTIONS AS REQUIRED TO ACCOMMODATE CONSTRUCTION SCHEDULE.

# **GENERAL SYMBOLS**



POINT OF DISCONNECT - DEMOLITION REMOVED FROM POINT OF CONNECTION - NEW CONNECTS TO EXISTING AREA NOT IN CONTRACT

# **ELECTRICAL SYMBOLS**

## LIGHTING

# SWITCHES AND WALL-BOX CONTROLS

SWITCHES: MOUNT 42-INCHES AFF UNO CKT DESIGNATION (PNL - CKT NO.) SUPERSCRIPT . SWITCH SHALL CONTROL FIXURE DENOTED WITH RELAY PANEL - RELAY NO. OR SAME LOWER CASE LETTER SWITCH SYMBOL SUBSCRIPT, SWITCH TYPE - SEE BELOW LINE THRU SWITCH INDICATES A

KEY OPERATED SWITCH S SWITCH, SINGLE POLE SWITCH, DOUBLE POLE

SWITCH, 3-WAY

SWITCH, 4-WAY

SWITCH, DIMMER

SWITCH, EMERGENCY

SWITCH, LOW VOLTAGE

S<sub>MC</sub> SWITCH, MOMENTARY CONTACT

SWITCH WITH PILOT LIGHT

RELAY PANEL

SWITCH, TIMER

S<sub>ES</sub> SWITCH, ECO-SYSTEM

RMJS-8T-DV-B

S<sub>EP</sub> SWITCH, EXPLOSION-PROOF

S<sub>OS</sub> SWITCH, WALL-BOX OCCUPANCY SENSOR

S<sub>OS2</sub> SWITCH, WALL-BOX OCCUPANCY SENSOR, 2-POLE

SWITCH, LOW VOLTAGE, ASSOCIATED WITH

 CEILING FIXTURE, SURFACE, RECESSED OR PENDANT LIGHTING FIXTURE ON EMERGENCY BUILT-IN BATTERY SYSTEM \* LIGHTING TRACK, TRACK MOUNTED LIGHT FIXTURES

LIGHTING FIXTURE ON EMERGENCY BUILT-IN

FIXTURE TYPE

LOCAL SWITCH DESIGNATION

► WALL MOUNTED LIGHTING FIXTURE

LIGHTING FIXTURE

HIGH BAY LIGHTING FIXTURE

WALL WASHER?

├── WALL MOUNTED LIGHTING FIXTURE

EXIT SIGN AREA LIGHTING

LIGHTING FIXTURE TAG

**LIGHTING FIXTURES** 

XXX-X

LIGHTING LV...
BATTERY SYSTEM \*

SITE LIGHTING - POLE

POLE MOUNTED AREA LIGHTING FIXTURE POLE WITH POLE MOUNTED AREA LIGHTING FIXTURE

WALL MOUNTED AREA LIGHTING FIXTURE IN GRADE LIGHT FIXTURE

**LUTRON LIGHTING CONTROL DEVICES** 

OS LRG2-OCR2B-P (OCCUPANCY SENSOR) PJ2-2BRL-GW-L01 (PICO WALL CONTROLS) CAR2S-20-DTR-WH (WIRELESS RECEPTACLES)

> FCJS-010 (POWPAK) 8DS MRF2S-8SD010-WH (DIMMING SWITCH) MRF2S-8SS-WH (MANUAL ON/OFF SWITCH)

CONDUIT CONCEALED IN CEILING OR WALLS, POWER

CONDUIT CONCEALED IN FLOOR OR UNDERGROUND,

CONDUIT CONCEALED IN CEILING OR WALLS,

OTHER (\* = SEE ABBREVIATIONS)

OTHER (\* = SEE ABBREVIATIONS)

OTHER (\* = SEE ABBREVIATIONS)

BRANCH CIRCUIT PANELBOARD

DISTRIBUTION PANELBOARD MOUNT

MOUNT 72-INCHES TO TOP

EQUIPMENT CABINET, AS NOTED

MOTOR STARTER OR DRIVE

FUSE AND SWITCH ASSEMBLY

CIRCUIT BREAKER ENCLOSURE

EQUIPMENT CONNECTION

THE CABLE TRAY, LADDER TYPE OR RUNWAY

MULTI-OUTLET ASSEMBLIES

DIVIDED SURFACE RACEWAY

MOUNT 18-INCHES AFF. UNO

**COMMUNICATIONS** 

TELECOMMUNICATIONS OUTLETS: MOUNT 18-INCHES AFF

PROVIDE JACKS UNDER A COMMON FACEPLATE:

TELECOMMUNICATIONS OUTLET WITH HDMI

UNO, AND WITHIN 8-INCHES OF ADJACENT RECEPTACLE

WHERE DENOTED 'AC', MOUNT ABOVE COUNTER

WHERE DENOTED 'C', MOUNT FLUSH IN CEILING

✓ ✓ ✓ ₹ TELECOMMUNICATIONS OUTLET

X = QTY OF VOICE JACKS

Y = QTY OF DATA JACKS

Z = QTY OF VIDEO JACKS

OUTLET FOR TV CONNECTION

MOUNT 18-INCHES AFF, UNO

COMBINATION STARTER / DISCONNECT SWITCH

MANUAL CONTROLLER WITH THERMAL OVERLOAD

MANUAL CONTROLLER W/O THERMAL OVERLOAD

WHERE DENOTED 'AC', MOUNT ABOVE COUNTER

WHERE DENOTED 'AC', MOUNT ABOVE COUNTER

(\*) - PROVIDE 90 MIN. BATTERY BACKUP

CIRCUIT HOME RUN

———— CONDUIT STUB-UP

E CONDUIT SLEEVE

———

S CONDUIT SEAL

— ○ CONDUIT TURNING UP

CONDUIT TURNING DOWN

EXPOSED CONDUIT, POWER

\_\_\_\* \_\_ EXPOSED CONDUIT,

∠∠ 72-INCHES TO TOP

SWITCHBOARD

☐ DISCONNECT SWITCH

PULL BOX

\_\_\_\_ CABLE TRAY

RECEPTACLES: MOUNT 18-INCHES AFF, UNO DIAGONAL LINE THROUGH SYMBOL OR DENOTED 'AC' INDICATES MOUNT DEVICE ABOVE COUNTER. WHERE INDICATED AS 'MOUNT ABOVE COUNTER' MOUNT BOTTOM OF BOX 2-INCHES ABOVE TOP OF BACKSPLASH OR 6-INCHES ABOVE COUNTERTOP IF NO BACKSPLASH

LABELS SHALL BE MACHINE PRINTED, UNO SIMPLEX RECEPTACLE DUPLEX RECEPTACLE DUPLEX RECEPTACLE, GFI TYPE  $\sim$  CONDUIT CONCEALED IN FLOOR OR UNDERGROUND, POWER  $\Longrightarrow$  DUPLEX RECEPTACLE, MOUNT ABOVE COUNTER DUPLEX RECEPTACLE, GFI TYPE, MOUNT ABOVE

FOURPLEX RECEPTACLE FOURPLEX RECEPTACLE, GFI TYPE FOURPLEX RECEPTACLE, MOUNT ABOVE COUNTER FOURPLEX RECEPTACLE, GFI TYPE, MOUNT ABOVE COUNTER

DUPLEX RECEPTACLE, FLUSH IN CEILING DUPLEX RECEPTACLE, HORIZONTALLY MOUNTED DUPLEX RECEPTACLE, HORIZ. MTD, GFI TYPE

DUPLEX RECEPTACLE, HORIZ. MTD, ABOVE COUNTER DUPLEX RECEPTACLE, HORIZ. MTD, GFI TYPE, MOUNT ABOVE COUNTER DUPLEX RECEPTACLE, LOWER SWITCH DUPLEX RECEPTACLE, SWITCHED

RANGE RECEPTACLE, MOUNT 8-INCHES AFF SPECIAL RECEPTACLE, DEEP WELL BOX FLUSH FLOOR OUTLET BOX UNO • FLUSH FLOOR BOX WITH DUPLEX RECEPTACLE UNO

MULTI-DEVICE FLOOR BOX WITH DUPLEX RECEPTACLE AND TELECOMMUNICATIONS J FLUSH JUNCTION BOX, CEILING MOUNTED FLUSH JUNCTION BOX, WALL MOUNTED

SURFACE JUNCTION BOX, WALL MOUNTED SURFACE JUNCTION BOX, CEILING MOUNTED DUPLEX/USB COMBINATION RECEPTACLE,

HORIZONTALLY MOUNTED

TELE-POWER POLE

FIRE LIFE SAFETY F HORN-STROBE

**Specific Notes:** 

Contractor shall coordinate with lighting floor plans for the required length of fixture required

## MEP COMPONENT ANCHORAGE NOTE

APPLICABLE CODE: 2019 CBC

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

02/05/2020

REVISED: 02/14/2020

ALL PERMANENT EQUIPMENT AND COMPONENTS. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.

TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA. THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED

DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS: A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL. THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP MD PP E OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND MP ☐ MD ☐ PP ☐ E ☑ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #)

## **CODE ANALYSIS**

2019 California Administrative Code (CAC), Part 1, Title 24 CCR 2019 California Building Code (CBC), Part 2, Title 24 CCR (2018 International Building Code, Vol. 1 & 2, and 2019 California amendments) 2019 California Electrical Code (CEC), Part 3, Title 24 CCR 2017 National Electrical Code and 2019 California Amendments 2019 California Mechanical Code (CMC), Part 4, Title 24 CCR (2018 IAPMO Uniform Mechanical Code and 2019 California amendments) 2019 California Plumbing Code (CPC), Part 5, Title 24 CCR (2018 IAPMO Uniform Plumbing Code and 2019 California amendments) 2019 California Energy Code (CEC), Part 6, Title 24 CCR 2019 California Fire Code (CFC), Part 9, Title 24 CCR (2018 International Fire Code and 2019 California Amendments)

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2020\*

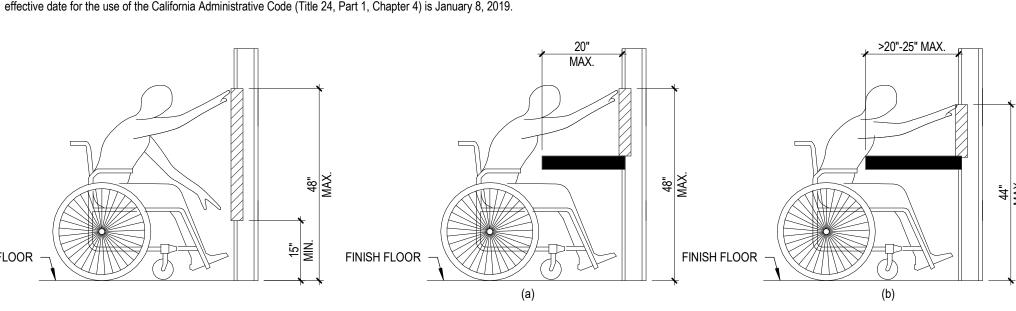
2019 California Existing Building Code (CEBC), Part 10, Title 24 CCR (2018 International Existing Building Code and 2019 California Amendments) 2019 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR 2019 California Referenced Standards Code, Part 12, Title 24 CCR Title 19 CCR, Public Safety, State Fire Marshal Regulations

2016 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators (per 2019 CBC Part 2 Ch 35) Note: Cal/OSHA Elevator Unit enforces CCR Title 8 and uses the 2004 ASME A17.1 by adoption

PARTIAL LIST OF APPLICABLE STANDARDS NFPA 13 - Standard for the Installation of Sprinkler Systems (CA amended).... NFPA 14 - Standard for the Installation of Standpipe and Hose Systems (CA amended)....2016 Edition NFPA 17 - Standard for Dry Chemical Extinguishing Systems. NFPA 17A - Standard for Wet Chemical Extinguishing Systems... ..2017 Edition NFPA 20 - Standard for the Installation of Stationary Pumps for Fire Protection... ....2016 Edition NFPA 22 - Standard for Water Tanks for Private Fire Protection.... ...2013 Edition NFPA 24 - Standard for the Installation of Private Fire Service Mains and Their Appurtenances (CA amended) .2016 Edition NFPA 72 - National Fire Alarm and Signaling Code (CA amended). ..2016 Edition NFPA 80 - Standard for Fire Doors and Other Opening Protectives ....2016 Edition NFPA 2001 - Standard on Clean Agent Fire Extinguishing Systems (CA amended)...... .....2015 Edition UL 300 - Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment.... .2005 (R2010) UL 464 - Audible Signaling Devices for Fire Alarm and Signaling Systems, .. 2003 Edition Including Accessories... UL 521 - Standard for Heat Detectors for Fire Protective Signaling Systems.... 1999 Edition UL 1971 - Standard for Signaling Devices for the Hearing Impaired... ..2002 (R2010) ICC 300 - Standard for Bleachers, Folding and Telescopic Seating, and Grandstands.......2017 Edition

For a complete list of applicable NFPA standards refer to 2019 CBC (SFM) Chapter 35 and California Fire Code

See California Building Code Chapter 35 for State of California amendments to the NFPA Standards. \*All parts of the 2019 California Building Code become effective January 1, 2020 except the effective date for the use of the 2019 Building Energy Efficiency Standards (Title 24, Part 1, Chapter 10) is January 8, 2019 and the



UNOBSTRUCTED FORWARD REACH FRONT APPROACH: THERMOSTAT BOX 48" MAX CONTROL BOX 48" MAX FINISH FLOOR

OBSTRUCTED HIGH FORWARD REACH TOP OF THERMOSTAT OR CONTROL BOX

UNOBSTRUCTED HIGH SIDE REACH

UNOBSTRUCTED SIDE REACH

1. FIXTURES AND DEVICES ARE BASED ON 2019 CBC, FIGURE 11B-308.2.1 FOR UNOBSTRUCTED FORWARD REACH, FIGURE 11B-3082.2 FOR OBSTRUCTEDHIGH REACH, FIGURE 11B-308.3.1 FOR JNOBSTRUCTED SIDE REACH. AND FIGURE 11B-308.3.2 FOR OBSTRUCTED HIGH SIDE REAC 2. ALL THERMOSTATS AND CONTROLS SHALL BE INSTALLED AND COMPLIANT PER 2019 CBC

3. PROVIDE 30"WX27"HX19"-25"D MIN. TOE/KNEE CLEARANCE FOR FRONT APPROACH OVER OBSTRUCTION

**Lighting Fixture Schedule** LAMP LUMENS CCT BALLAST/DRIVER VOLT WATTS MFR MODEL CATALOG NUMBER DIE RECESSED ARCHITECTURAL FLOOD LIGHT RECESSED, CEILING LED 2341 LM 3000 K 0-10V, DIM 10% UNV 27W WESTGATE RADIUS SERIES CRL4-27W-30K FOR FIXTURES SHOWN AS A SOLID DARK, PROVIDE EM BATTERY PACK (OPT-EM-HB1EXT OR SIMILAR AS RECOMMENDED BY MANUFACTURER) -02 SURFACE MOUNTED COMMERCIAL... CEILING MOUNTED LED 4480 LM 3000 K 0-10V, DIM 10% UNV 40W WESTGATE SCX SERIES SCX-4FT-40W-30K-D 33 EXTERIOR ABOVE DOOR WALLPACK SURFACE MOUNTED LED 4320 LM 3000 K 0-10V. DIM 10% UNV 32W WESTGATE WPX SERIES WPX-32W-MCTP-OPT-EM-0D1INT PROVIDE PHOTOCELL IN EACH ASSEMBLY SCX SERIES SCX-4FT-40W-MCT4-D 04 PENDENT MOUNTED COMMERCIAL... PENDENT MOUNTED LED 4375 LM 3000 K 0-10V, DIM 10% UNV 40W WESTGATE FOR FIXTURES SHOWN AS SOLID DARK, PROVIDE EM BATTERY PACK (OPT-SCX-FMR-4FT OR SIMILAR AS RECOMMENDED BY MANUFACTURER) -05 PENDENT MOUNTED COMMERCIAL.... PENDENT MOUNTED LED 8750 LM 3000 K 0-10V, DIM 10% UNV 80W WESTGATE SCX SERIES SCX-8FT-80W-MCT4-D CEILING MOUNTED LED UNV 4W WESTGATE SINGLE FACE EXIT SIGN XT SERIES XT-CL-RW-EM-DUAL VOLTAGE-SINGLE-WHITE-NI\_CAD-RED CEILING MOUNTED LED UNV 5W WESTGATE XT SERIES XT-CL-RW-EM-DUAL VOLTAGE-DOUBLEWHITE-NI\_CAD-RED DOUBLE FACED EXIT SIGN

DSA APPROVAL STAMP

DSA APP: 01-119997 DSA FILE: 07-C1

O p, o a **(1)** 

04/22/2022 Revisions

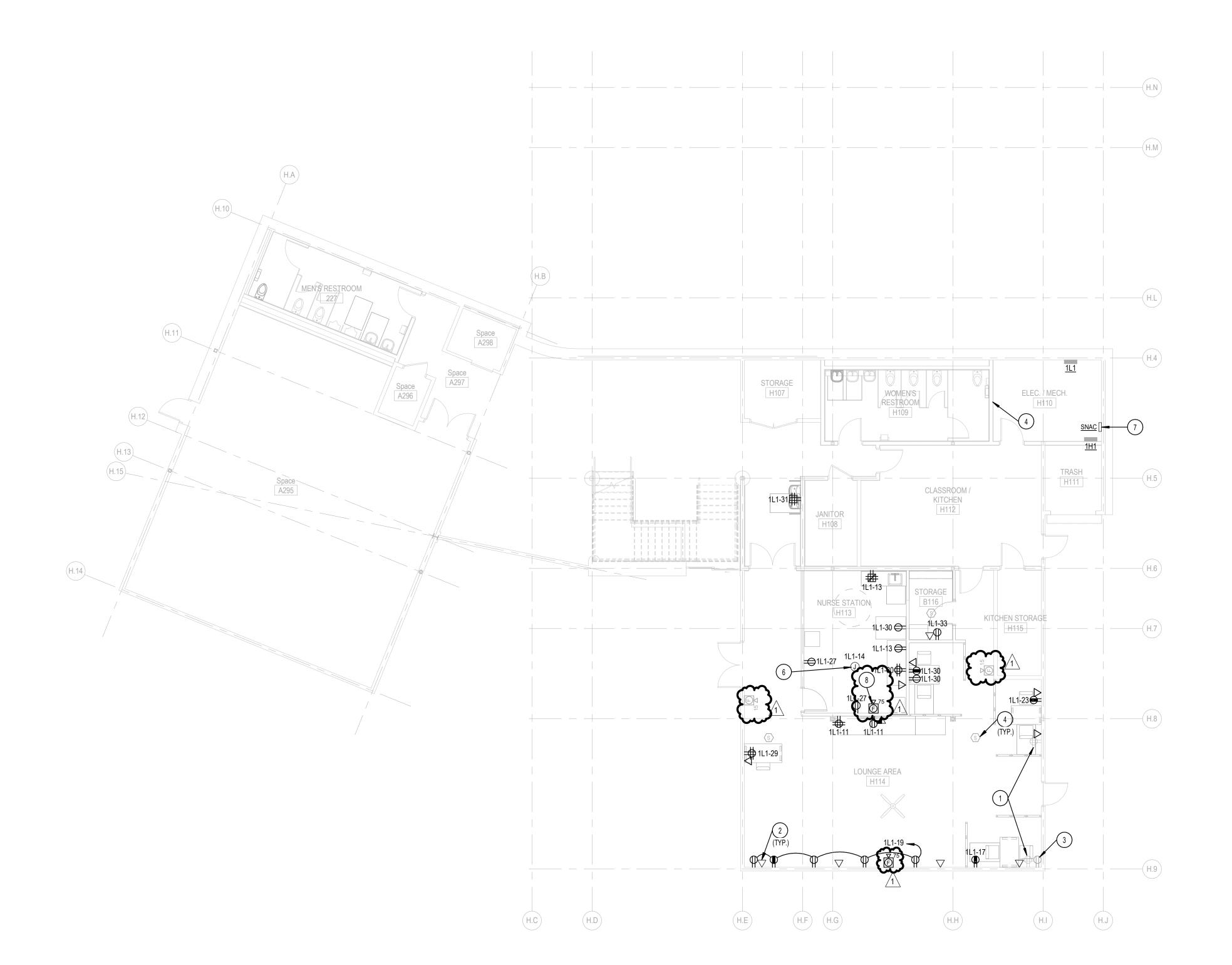
ADDENDUM 1

1 04/22/2022 ADDENDUM 1

DLR GROUP PROJECT NUMBER: SHEET NOTES

ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES

E0.1 . Provide all necessary hardware for a complete working system



HEALTH SERVICES INSIDE OF THE STUDENT UNION BUILDING - LEVEL 1 - POWER PLAN
SCALE: 1/8" = 1'-0"

# **LEGEND AND NOTES**

## **GENERAL NOTES**

A AVOID INSTALLING ANY NEW FLOOR BOXES, POKE-THRU DEVICES, OR MAKING PENETRATIONS INTO EXISTING FLOOR/CEILINGSUNLESS OTHERWISE SPECIFIED. OBTAIN APPROVAL FROM EEOR AND AOR PRIOR TO PROCEEDING WITH AN WORK INVOLVING NEW FLOOR BOXES AND/OR POKE-THRU DEVICES.

DSA APPROVAL STAMP



## SHEET NOTES

- MOVE EXISTING OUTLET TO COMPLY WITH ADA HEIGHT REQUIREMENTS (15"AFF, FROM BASE OF BOX). EXTEND CIRCUIT CONNECTIONS AS NECESSARY.
- INSTALL A SINGLE GANG 4 11/16"SQ X 2 1/8"D BACKBOX WITH (2) DATA JACKS. PROVIDE 3/4"C MIN. AND ROUTE TO THE EXISTING DATA RACK. PROVIDE CAT CABLING PER CAMPUS IT REQUIREMENTS. COORDINATE INSTALLATION OF A NEW BLADES SERVER IN EXISTING RACK WITH CAMPUS IT DEPARTMENT.
- 3 (E) DUPLEX OUTLET @7-FT AFF FED FROM 1L1-17 TO REMAIN PROTECT IN PLACE.
- 4 CONTRACTOR TO COORDINATE WITH DISTRICT FOR THE ADDITION OF BLADES TO EXISTING BLADE SERVER. PROVIDE ALL NECESSARY CONDUITS, SUPPORTS, WIRES, AND OTHER REQUIREMENTS FOR A COMPLETE AND FUNCTIONAL INSTALLATION
- 4 (E) SMOKE DETECTOR. TO BE REMOVED AND RELOCATED TO LOCATION INDICATED ON DRAWING SET.
- 6 PROVIDE 125VAC, 1PH., 30A, DISCONNECT SWITCH. TYPICAL FOR ALL VAV'S. PROVIDE ACCESS PANEL WHERE CEILING DOES NOT PERMIT ACCESS. PROVIDE 1"C FOR CONTROL WIRING. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.

(N) REMOTE BOOSTER POWER SUPPLY. PROVIDE A DEDICATED 120V POWER SUPPLY FROM NEAREST PANEL BOARD. PROVIDE LOCK ON DEVICE ON BRAKER. FIELD VERIFY LOCATION IF SUITABLE FOR INSTALLATION. IF INDICATED AREA IS UNACCEPTABLE FOR INSTALLATION, PROVIDE
ALTERNATIVES LOCATIONS WITHIN THE ROOM OR CONTACT
DSA FILE: 07-C1 EEOR/AOR FOR INSTALLATION OUTSIDE OF ELECTRICAL

(N) HORN-STROBE TO BE WALL MOUNTED. FEED DIRECTLY FROM NEW SNAC PANEL LOCATED AT ELECTRICAL ROOM.



ROOM. PROVIDE CONNECTION TO EXISTING FIRE ALARM CONTROL PANEL. mmmmm

> t Shop, Student Health Services DVC - Print Success, & Renovation

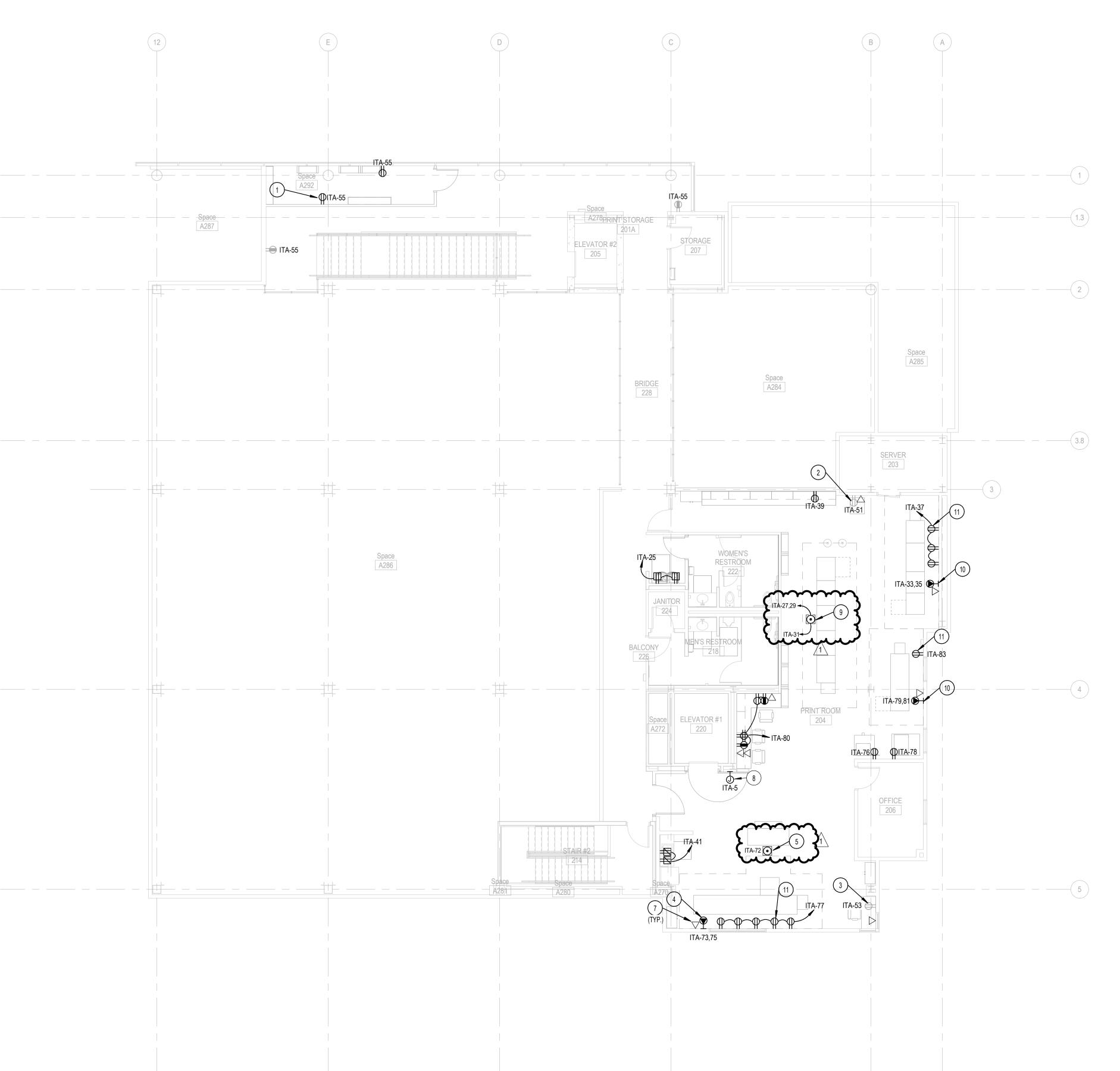
ADDENDUM 1

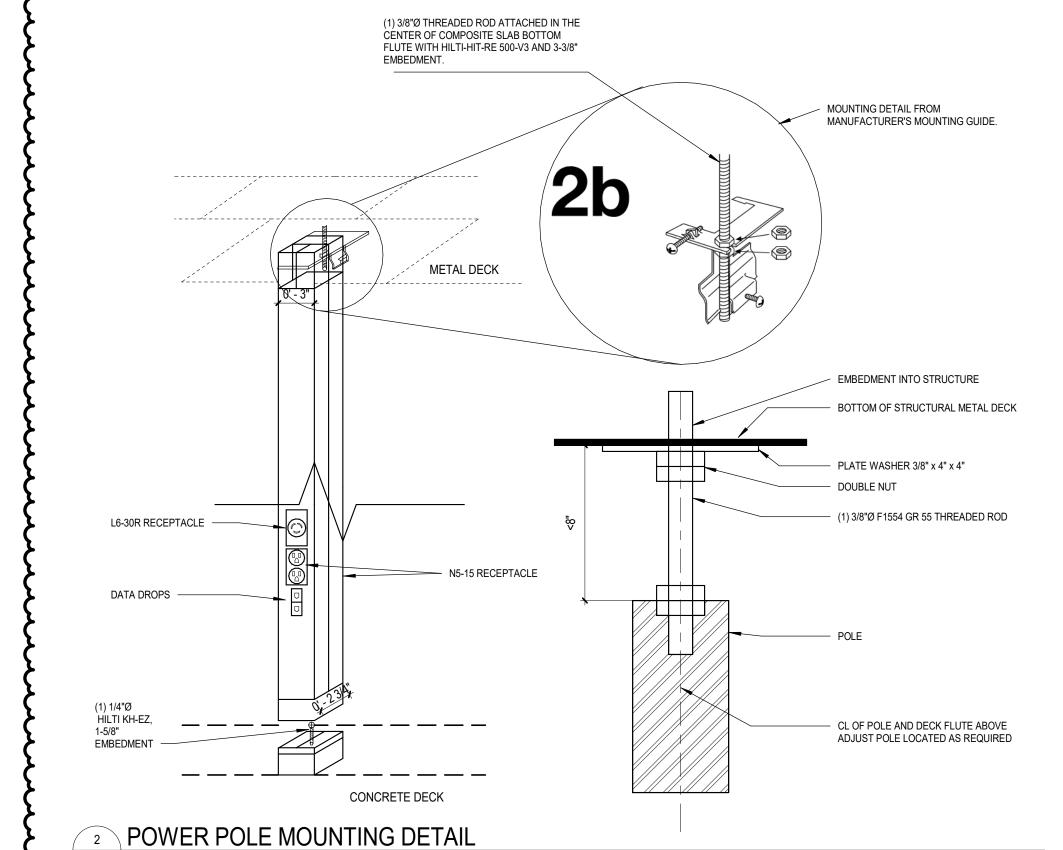
04/22/2022 Revisions 1 04/22/2022 ADDENDUM 1

DLR GROUP PROJECT NUMBER: SHEET NOTES

**HEALTH SERVICES -**STUDENT UNION BLDG -LEVEL 01 - POWER PLAN

E2.10





E2.31 NO SCALE

**LEGEND AND NOTES** 

**GENERAL NOTES** 

A AVOID INSTALLING ANY NEW FLOOR BOXES, POKE-THRU DEVICES, OR MAKING PENETRATIONS INTO EXISTING FLOOR/CEILINGSUNLESS OTHERWISE SPECIFIED. OBTAIN APPROVAL FROM EEOR AND AOR PRIOR TO PROCEEDING WITH AN WORK INVOLVING NEW FLOOR BOXES AND/OR POKE-THRU DEVICES.

DSA APPROVAL STAMP



SHEET NOTES

INTERCEPT THE (2)(N) DATA OUTLETS INTO CIRCUIT FOR (E) OUTLET OUTSIDE OF THE ROOM. EXISTING CIRCUIT TO BE PROTECTED IN PLACE AND REORGANIZED IN ORDER TO SERVE A COPIER AS A DEDICATED CIRCUIT.

CIRCUIT TO BE REUSED FOR NEW WORKSTATION. PROTECT IN PLACE WHILE NEW DUPLEX DATA OUTLET IS ADDED. 4 PROVIDE 208V, 1PH, 30A, NEMA 6-30R RECEPTACLE FOR 

CONDITIONS PRESENT AND COORDINATE WITH MANUFACTURER FOR ALL NECESSARY COMPONENTS REQUIRED FOR MOUNTING AND COMPLETE INSTALLATION.

7 INSTALL A SINGLE GANG 4 11/16"SQ X 2 1/8"D BACKBOX WITH

(2) DATA JACKS. PROVIDE 3/4"C MIN. AND ROUTE TO THE

(2) DUPLEX RECEPTACLES AND (2) DATA DROPS LOCATED BÉLOW THE TWO POWER RECEPTACLES. FIELD COORDINAT

EXISTING DATA RACK. PROVIDE CAT CABLING PER CAMPUS IT REQUIREMENTS.COORDINATE INSTALLATION OF NEW BLADE SERVERS WITHIN (E) RACK WITH CAMPUS IT DEPARTMENT. NEW MAGNETIC DOOR HOLD-OPEN. PROVIDE 120V, 20A CIRCUIT, AND ALL NECESSARY BACKBOXES AND RACEWAYS NEEDED FOR A COMPLETE INSTALLATION. CONNECT DOOR

HOLD-OPEN WITH MAIN FIRE ALARM CONTROL PANEL OF

ADDITIONAL PROVISIONS FOR DUPLEX (N5-15/30TP-BWH) RECEPTACLES AND SINGLE (L6-30R/30TP-JWH) RECEPTACLE. PSA APP: 01-119997 PROVIDE (2) DUPLEX RECEPTACLES AND (1) L6-30R RECEPTACLES ON THE NORTH FACING SIDE OF THE POLE AND (2) DUPLEX RECEPTACLES ON THE SOUTH FACING SIDE. PROVIDE (2) DATA DROPS ON BOTH SIDES OF THE POWER POLE. FIELD COORDINATE CONDITIONS PRESENT AND COORDINATE WITH MANUFACTURER FOR ALL NECESSARY COMPONENTS REQUIRED FOR MOUNTING AND COMPLETE INSTALLATION. ROUTE CONDUITS AT HIGH-CEILING USING

EXISTING UNISTRUT SUPPORT FOR EXISTING CONDUITS AND PAINT TO MATCH EXISTING FINISH TO SATISFACTION OF

11 PROVIDE N5-20, 120V, 20A RECEPTACLES FOR PRINTER.

Shop, 9 Health

ADDENDUM 1

04/22/2022 Revisions 1 04/22/2022 ADDENDUM 1

DLR GROUP PROJECT NUMBER: SHEET NOTES

PRINT SHOP - BOOKSTORE -LEVEL 02 - POWER PLAN

E2.31

PRINT SHOP - BOOKSTORE - LEVEL 02 - POWER PLAN

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

DSA APPROVAL STAMP

**MOUNTING:** SURFACE

CIRCUIT DESCRIPTION

PANEL TOTALS

EMD CURRENT: 144.5 A

CIRCUIT DESCRIPTION

PANEL TOTALS

CONNECTED LOAD: 25 kVA

EMD CURRENT: 38.3 A

**ESTIMATED DEMAND**: 32 kVA

CONNECTED CURRENT: 30.7 A

CONNECTED LOAD: 63 kVA

**ESTIMATED DEMAND**: 52 kVA

CONNECTED CURRENT: 174.0 A

FED FROM:

INTEGRAL SPD: NO

1 20 EXISTING LOAD

1 20 EXISTING LOAD

1 20 EXISTING LOAD 1 20 EXISTING LOAD 1 20 EXISTING LOAD 1 20 EXISTING LOAD

1 20 EXISTING LOAD

1 20 EXISTING LOAD

1 20 EXISTING LOAD

1 20 EXISTING LOAD

1 20 EXISTING LOAD 1 20 EXISTING LOAD

1 20 EXISTING LOAD

1 20 EXISTING LOAD

1 20 EXISTING LOAD

1 20 EXISTING LOAD

3 225 EXISTING LOAD

**BKR TYPE** 

G = GFCI (5mA)

GP = GFP (30mA)

ST = SHUNT TRIP

LO = LOCK OUT

1 20 USB/DUPLEX RECEPT

**MOUNTING:** SURFACE

1 20 EXISTING LIGHTING LOAD
1 20 EXISTING LIGHTING LOAD
1 20 EXISTING LIGHTING LOAD

1 20 EXISTING LIGHTING LOAD
1 20 SPARE
1 20 SPARE
1 20 SPARE
1 20 SPARE

FED FROM:

INTEGRAL SPD: NO

**LUG ACCESSORIES:** 

**BKR TYPE** 

G = GFCI (5mA)

GP = GFP (30mA)

ST = SHUNT TRIP

LO = LOCK OUT

**LUG ACCESSORIES:** 



DSA APP: 01-119997 DSA FILE: 07-C1

Student Service ervices hop, ealth Print ss, & ation VC -

**ADDENDUM 1** 

04/22/2022 Revisions 1 04/22/2022 ADDENDUM 1

DLR GROUP PROJECT NUMBER: SHEET NOTES

**ELECTRICAL SCHEDULES** 

E7.1

Spare SPARE

0 VA | 0.00% |

1. FIELD VERIFY THE CONDITIONS AND MANIFACTURER OF ELECTRICAL EQUIPMENT. COORDINATE WITH MANUFACTURER AND PROVIDE CIRCBUIT BREAKERS (AND ALL DEVICES REQUIRED FOR A COMPLETE INSTALLATION)

#### **SECTION 00010**

#### TABLE OF CONTENTS

#### **DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS**

| 00001   | TITLE PAGE                         |
|---------|------------------------------------|
| 00007   | SEALS PAGE                         |
| 00010   | TABLE OF CONTENTS                  |
| 00015   | PROJECT DIRECTORY                  |
| 00100   | NOTICE INVITING BIDS               |
| 00210   | INFORMATION AVAILABLE TO BIDDERS   |
| 00300   | BID PROPOSAL FORM                  |
| 00350   | NON-COLLUSION AFFIDAVIT            |
| 00400   | STATEMENT OF BIDDER QUALIFICATIONS |
| 00450   | CERTIFICATE OF SITE VISIT          |
| 00500   | PAYMENT AND PERFORMANCE BONDS      |
| 00510   | NOTICE OF AWARD                    |
| 00600   | CONSTRUCTION AGREEMENT             |
| 00650   | NOTICE TO PROCEED                  |
| 00700   | GENERAL CONDITIONS                 |
| 00700.1 | EXHIBIT B - OCIP                   |
| 00800   | SUPPLEMENTARY GENERAL CONDITIONS   |
| 00800.1 | SUBSTITUTION REQUEST FORM          |

#### **DIVISION 01 - GENERAL REQUIREMENTS**

| 01010 | SUMMARY OF WORK                                   |
|-------|---------------------------------------------------|
| 01015 | ADDITIONAL REQUIREMENTS FOR DSA-APPROVED PROJECTS |
| 01030 | ALTERNATES                                        |
| 01050 | FIELD ENGINEERING                                 |
| 01140 | WORK RESTRICTIONS                                 |
| 01250 | CONTRACT MODIFICATION PROCEDURES                  |
| 01290 | PAYMENT PROCEDURES                                |
| 01300 | LABOR COMPLIANCE PROGRAM                          |

| SERVICES RENOVA | TION                                       | ADDENDUM 1 |
|-----------------|--------------------------------------------|------------|
| 01305           | DELAY AND EXTENSIONS TO THE WORK           |            |
| 01310           | CONSTRUCTION SCHEDULING                    |            |
| 01311           | PROJECT MANAGEMENT AND COORDINATION        |            |
| 01312           | PROJECT MEETINGS                           |            |
| 01330           | SUBMITTAL PROCEDURES                       |            |
| 01340           | ADMINISTRATIVE FORMS AND LOGS              |            |
| 01400           | QUALITY CONTROL REQUIREMENTS               |            |
| 01410           | REGULATORY REQUIREMENTS                    |            |
| 01411           | TESTING LABORATORY SERVICES                |            |
| 01412           | HAZARDOUS MATERIALS                        |            |
| 01415           | MITIGATION MONITORING REGULATORY REQUIREME | ENTS       |
| 01416           | SPECIAL PROCEDURES                         |            |
| 01420           | REFERENCES                                 |            |
| 01500           | TEMPORARY FACILITIES CONTROLS              |            |
| 01505           | CONSTRUCTION WASTE MANAGEMENT              |            |
| 01540           | SITE SECURITY AND SAFETY                   |            |
| 01572           | STORM WATER POLLUTION PREVENTION           |            |
| 01610           | BASIC PRODUCT REQUIREMENTS                 |            |
| 01625           | PRODUCT OPTIONS AND SUBSTITUTIONS          |            |
| 01710           | CLEANING REQUIREMENTS                      |            |
| 01722           | EXECUTION REQUIREMENTS                     |            |
| 01730           | CUTTING AND PATCHING                       |            |
| 01740           | WARRANTIES / GUARANTIES                    |            |
| 01770           | CONTRACT CLOSEOUT PROCEDURES               |            |
| 01780           | PROJECT RECORD DOCUMENTS                   |            |
| 01785           | OPERATION AND MAINTENANCE DATA             |            |

75-21809-00

APRIL 22, 2022

#### **DIVISION 02 - EXISTING CONDITIONS**

01820

| 024100 | SELECTIVE SITE DEMOLITION |
|--------|---------------------------|
| 024119 | SELECTIVE DEMOLITION      |

CONTRA COSTA COMMUNITY COLLEGE DISTRICT

DVC - PRINT SHOP, STUDENT SUCCESS, & HEALTH

TABLE OF CONTENTS 00010 - 2

DEMONSTRATION AND TRAINING PROCEDURES

FIRE ALARM CUT SHEETS AND DSA 103

#### **DIVISION 05 - METALS**

051200 STRUCTURAL STEEL-REFER TO SHEET SPECS ON STRUCTURAL

**DRAWINGS** 

#### **DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES**

061000 MISCELLANEOUS ROUGH CARPENTRY – STRUCTURAL. REFER TO

SHEET SPECS ON STRUCTURAL DRAWINGS.

061053 MISCELLANEOUS ROUGH CARPENTRY

064116 PLASTIC-LAMINATE-CLAD ARCHITECTURAL CABINETS

064119 SOLID PHENOLIC ARCHITECTURAL CABINETS

#### **DIVISION 07 - THERMAL AND MOISTURE PROTECTION**

078413 PENETRATION FIRESTOPPING

078443 JOINT FIRESTOPPING

079200 JOINT SEALANTS

079219 ACOUSTICAL JOINT SEALANTS

#### **DIVISION 08 - OPENINGS**

| 081113 | <b>HOLLOW METAL</b> | DOORS | ANDE | PAMES |
|--------|---------------------|-------|------|-------|
| 001113 | HOLLOW METAL        |       | AND  | KAMES |

081416 FLUSH WOOD DOORS

081216 ALUMINUM FRAMES

087100 DOOR HARDWARE

088000 GLAZING

088813 FIRE-RESISTANT GLAZING

#### **DIVISION 09 - FINISHES**

| 092216 | NON-STRUCTURAL METAL FRAMI |  |
|--------|----------------------------|--|
|        |                            |  |
|        |                            |  |

092900 GYPSUM BOARD

093013 CERAMIC TILING

095113 ACOUSTICAL PANEL CEILINGS

096513 RESILIENT BASE AND ACCESSORIES

096543 LINOLEUM FLOORING

# CONTRA COSTA COMMUNITY COLLEGE DISTRICT DVC - PRINT SHOP, STUDENT SUCCESS, & HEALTH SERVICES RENOVATION

75-21809-00 APRIL 22, 2022 ADDENDUM 1

096813 TILE CARPETING

099123 INTERIOR PAINTING

#### **DIVISION 12 - FURNISHINGS**

123661.16 SOLID SURFACING COUNTERTOPS

#### **DIVISION 22 – PLUMBING**

**REFER TO P.01** 

#### **DIVISION 23 – MECHANICAL**

REFER TO MECHANICAL SHEETS

#### **DIVISION 26 – ELECTRICAL**

| 260500 | COMMON WORK RESULTS FOR ELECTRICAL SYSTEMS          |
|--------|-----------------------------------------------------|
| 260503 | DEMOLITION OF ELECTRICAL SYSTEMS                    |
| 260519 | LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES  |
| 260529 | HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS         |
| 260533 | RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS           |
| 260553 | IDENTIFICATION FOR ELECTRICAL SYSTEMS               |
| 260923 | LIGHTING CONTROL DEVICES                            |
| 262726 | WIRING DEVICES                                      |
| 262816 | ENCLOSED SWITCHES AND CIRCUIT BREAKERS              |
| 264313 | SURGE PROTECTIVE DEVICES FOR LOW-VOLTAGE ELECTRICAL |
|        | POWER CIRCUITS                                      |
| 265119 | LED INTERIOR LIGHTING                               |
| 265213 | EMERGENCY AND EXIT LIGHTING                         |

#### **DIVISION 31 - EARTHWORK**

| 311000 | SITE CLEARING             |
|--------|---------------------------|
| 312000 | EARTH MOVING              |
| 312333 | TRENCHING AND BACKFILLING |
| 312513 | EROSION CONTROLS          |

CONTRA COSTA COMMUNITY COLLEGE DISTRICT DVC - PRINT SHOP, STUDENT SUCCESS, & HEALTH SERVICES RENOVATION

75-21809-00 APRIL 22, 2022 ADDENDUM 1

#### **DIVISION 32 - EXTERIOR IMPROVEMENTS**

321216 ASPHALT PAVING 321313 SITE CONCRETE

**END OF SECTION 00010** 

#### **SECTION 01411**

#### TESTING LABORATORY SERVICES

#### PART 1 – GENERAL

#### 1.1 RELATED DOCUMENTS

A. All Contract Documents shall be reviewed for applicable provisions related to the provisions in this document, and provisions in the General Conditions and other Division 1 Specification Sections shall apply to this Section without limitation.

#### 1.2 RELATED REQUIREMENTS SPECIFIED IN OTHER SECTIONS

- A. Section 01010 "Summary of Work"
- B. Section 01400 "Quality Control Requirements"
- C. Section 01410 "Regulatory Requirements"
- D. Section 01412 "Hazardous Material"
- E. Section 01770 "Contract Closeout Procedures"
- F. Division 2 through 33 Sections for Special Inspections, tests required and standard for testing.

#### 1.3 SUMMARY

A. This section describes the requirements and procedures for work involving the testing laboratory.

#### 1.4 REFERENCES

- A. CBC California Building Code.
- B. CCR California Code of Regulations.
- C. ANSI/ASTM D3740 Practice for Evaluation of agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction.
- D. ANSI/ASTM E329 Standard Recommended Practice for Inspection and Testing Agencies for Concrete, Steel and Bituminous Materials as Used in Construction.

#### 1.5 REGULATORY REQUIREMENTS

- A. Testing, sampling and preparing samples will be in accordance with the standards referenced in individual specification sections and in the applicable sections of CBC State Chapters.
- B. Testing and submitting test reports will conform to provisions of Section 4-335, Part 1, Title 24, CCR.
- C. Comply with Requirements of ANSI/ASTM E329 and ANSI/ASTM D3740.
- D. Laboratory shall maintain a full-time registered Engineer on staff to review services.
- E. Laboratory authorized to operate in State in which Project is located.
- F. Testing Equipment shall be calibrated at reasonable intervals with devices of accuracy traceable to either NSB Standards or accepted values of natural physical constants.

#### 1.6 SELECTION AND PAYMENT

A. The District will employ and pay for the services of testing laboratory and/or testing agencies acceptable to the Division of the State Architect to conduct required tests and inspections for the Project.

- 1. Soils: The testing laboratory will observe excavating, grading, and filling operations and provide testing of soil materials as required by the Division of the State Architect and as specified in the Contract Documents. The Soils Engineer will have management, laboratory and field supervisory personnel with minimum 5 years' experience in testing and inspection of soils materials and will have adequate facilities, equipment, and technical references to permit performance of testing and inspections within applicable regulations and standards in accordance with Section 4-335, Part 1, Title 24, CCR.
- 2. Other Construction: The testing laboratory will conduct tests, inspections, and special inspections as required by the Division of the State Architect and as specified in the Contract Documents.
  - a. Construction Requiring Testing and Inspection Other Than Special Inspection: The testing laboratory will have management, laboratory and field supervisory personnel with minimum 5 years' experience in testing and inspection of work and materials of construction and will have adequate facilities, equipment, and technical references to permit performance of testing and inspections within applicable regulations and standards in accordance with Section 4-335, Part 1, Title 24, CCR.
  - b. Construction Requiring Special Inspection: The testing laboratory will have special inspectors approved by the Division of the State Architect to conduct special inspections as required by the Division of the State Architect under provisions of Section 4-333, Part 1, Title 24, CCR.
- B. Retesting: When initial tests indicate non-compliance with the Contract Documents, subsequent retesting caused by the non-compliance shall be performed by the same testing agency and the costs thereof will be deducted by the District from the Contractor's Contract Price by Change Order.
- C. Retesting Covered Work: Re-examination of previously tested and inspected work may be ordered by the District. The Contractor shall uncover such work if retesting is ordered. If work is found in accordance with Contract Documents, the
  - District will pay costs of uncovering, removing, retesting and replacing. If work is found not in accordance with Contract Documents, the District will deduct the cost of retesting from the Contract Price by Change Order and the Contractor will bear the costs of uncovering, removing and replacing work.
- D. Testing and inspecting performed for Contractor's convenience, such as testing and inspection to establish equivalence of substitutions, equivalence of repairs to damaged materials, and testing and inspecting to expedite the operations, shall be the Contractor's responsibility.
  - 1. The Contractor shall employ a licensed professional engineer of the discipline required to develop a testing program which will establish equivalency.
  - 2. The Contractor shall submit the testing program to the District for review.
  - 3. The Contractor shall arrange testing in accordance with the accepted testing program to be performed by the District's testing laboratory.
  - 4. The costs of testing done by the District's testing laboratory for the Contractor will be deducted from the Contract Price by Change Order.
  - 5. The Contractor may not arrange for testing upon portions of the work already completed except with the written consent of the District and Architect.

- E. Employment of testing laboratory shall in no way relieve Contractor of obligation to perform work in accordance with requirements of Contract Documents.
- F. The District shall have the right to make tests at any time on materials or work done whether those materials are specified or substituted items.

#### 1.7 LABORATORY RESPONSIBILITIES

- A. Provide qualified personnel at site. Cooperate with District, Architect, Project Inspector and Contractor in performance of services.
- B. Perform specified sampling and testing of materials in accordance with specified standards.
- C. Ascertain compliance of materials and mixes with requirements of Contract Documents.
- D. Promptly notify Division of the State Architect, District, Project Inspector and Contractor of observed irregularities and non-conformance of work and products.
- E. Perform additional tests required by District, and Division of the State Architect.
- F. Attend Pre-Construction Meeting, Progress Meetings and other meetings as requested by District.
- G. Perform all tests required by the Division of the State Architect for this Project. See form DSA-103 in this Project Manual and individual specification sections.

#### 1.8 LABORATORY REPORTS

#### A. Test/Inspection Reports:

- 1. Reports will comply with Section 4-335(d), Part 1, Title 24, CCR.
- 2. Include every test and inspection made regardless of whether such tests and inspections indicate that the material and procedures are satisfactory or unsatisfactory.
- 3. Include records of special sampling operations as required.
- 4. Indicate that materials were sampled and tested in accordance with requirements of CCR regulations and Construction Documents.
- 5. Indicate specified design strength of materials such as masonry, concrete and steel.
- 6. State whether or not materials and procedures comply with requirements of the Contract Documents.
- 7. Submit copies of reports to Division of the State Architect, District, Project Inspector, and Contractor within 14 days of tests. Submit copies of reports of non-complying materials and procedures immediately.

#### B. Verified Reports:

- 1. Soils Engineers inspecting placement of fills and Special Inspectors will submit Verified Reports in accordance with Section 4-336, Part I, Title 24, CCR.
  - a. Special inspections requiring Verified Reports include, but are not limited to, inspections of masonry construction, glued-laminated timber fabrication, wood framing using timber connectors, manufactured trusses, ready-mixed concrete batting, shotcrete application, shop welding and field welding.
  - b. Submit two copies of reports directly to the Office of Regulation Services; forward one copy each to District, Architect and Project Inspector.

- 2. Soils Engineers and testing laboratories conducting tests on materials will submit verification of test reports at completion of testing program and when required by Office of Regulation Services in accordance with Section 4-335(e), Part I, Title 24, CCR.
  - a. The Final Laboratory Verified Report or Laboratory Affidavit will indicate whether every material tested passed and disposition of problems associated with earlier deficient test reports.
  - b. Submit two copies of each report directly to Office of Regulation Services; forward one copy each to District and Project Inspector.

#### 1.9 LIMITS ON AGENCY OR TESTING LABORATORY AUTHORITY

- A. Agency or laboratory may not release, revoke, alter or enlarge on requirements of Contract Documents.
- B. Agency or laboratory may not approve or accept any portion of the work.
- C. Agency or laboratory may not assume any duties of Contractor.
- D. Agency or laboratory has no authority to stop work.

#### 1.10 CONTRACTOR RESPONSIBILITIES

- A. Package and deliver to laboratory at designated location adequate samples of materials proposed to be used which require testing. Samples shall be selected by laboratory personnel. Allow proper time for selecting samples, and making tests or considerations.
- B. Cooperate with laboratory personnel, and provide access to work and to manufacturer's facilities.
- C. Provide incidental labor and facilities to provide access to work to be tested, to obtain and handle samples as selected by laboratory personnel at the site or at source of products to be tested, to facilitate tests and inspections, and for storage and curing of test samples.
- D. Schedule all tests and inspections with the testing and inspections firm and to notify District and Project Inspector a minimum of 3 working days prior to expected time for operations requiring inspection and testing services. Do not allow work to be covered prior to inspection and testing.
- E. Cooperate fully with the testing laboratory's personnel and with special inspectors in inspecting any part of the construction and in taking any samples of materials required to be tested. Provide access to the work. The Contractor's personnel shall furnish and cut or prepare all samples in the presence of either the testing laboratory personnel or the special inspectors and secure the witness's initial on each sample prepared.
- F. Notify the testing laboratory to send a bonded messenger to pick up the initialed samples the same day the samples were prepared. Alert the testing laboratory 3 working days in advance as to the times and location of the required sampling, tests and inspections so as to not delay the work of the project, and make sure that the required sampling, tests inspections are promptly completed.

#### 1.11 INSPECTIONS AND TESTS

Required inspections and tests may include, but are not limited to, the following:

- A. Testing Certificates to be provided by Contractor:
  - 1. Mill test reports for reinforcing steel.
  - 2. Mill test reports for cement.

- 3. Weighmaster's tickets for each load of transmit mixed concrete.
- 4. Weighmaster's affidavit.
- 5. Certifications of welders.
- 6. Certifications of materials.

#### B. Initial Testing Provided by District:

- 1. Site Clearing: Test compaction of excavation backfill.
- 2. Earthwork:
  - a. Sample and test fill and base materials for compliance with specified requirements.
  - b. Inspect placement of engineered fill.
  - c. Inspect bottoms of footings and foundation trenches.
  - d. Test compaction of each layer of engineered fill.

#### 3. Trenching:

- a. Inspect placement of trench backfill.
- b. Test compaction of trench backfill.

#### 4. Asphaltic Concrete Paving:

- a. Sample and test quality of paving and base if directed by District.
- b. Test compaction of paving and base if directed by District.

#### 5. Portland Cement Concrete Paving:

- Review mix designs.
- b. Sample and test compressive strength of concrete.
- c. Sample and test slump of concrete.

#### 6. Concrete Reinforcing:

- a. Review mill tests.
- b. Sample and test unidentified reinforcing steel.
- c. Sample and test identified reinforcing steel.
- d. Inspect placement and installation of reinforcing steel.
- e. Inspect field welding of reinforcing steel.

#### 7. Cast-In-Place Concrete:

- a. Sample and test cement.
- b. Sample and test aggregate.
- c. Review mix designs and confirm mix design proportions with weighmaster.
- d. Perform initial batch plant inspection.
- e. Inspect concrete placement.
- f. Sample and test slump of concrete.
- g. Test air content of concrete.

- h. Sample and test concrete for compressive strength.
- i. Test concrete for shrinkage.
- 8. Structural Steel:
  - a. Review mill certificates for shapes and plates.
  - b. Sample and test unidentified steel.
  - c. Establish recommended procedures for shop and field welding.
  - d. Inspect shop and field welding, including welded studs.
  - e. Test full penetration welds.
- 9. Metal Fabrications:
  - a. Inspect shop and field welding of load bearing fabrications.
  - b. Test full penetration welds in load bearing fabrications.
- 10. Rough Carpentry: Load test expansion anchors.
- 11. DSA 103 Form. See the DSA 103 form, following Section 01780, for required tests.
- C. The cost of the following initial tests, if required, will be deducted by the District from the Contract Price by Change Order.
  - 1. Testing to establish equivalence of material not properly identified.
  - 2. Testing to establish equivalence of substitutions.
  - 3. Testing required to expedite Contractor's operations.
  - 4. Testing relating to repair of work which fails to meet specifications.
  - 5. Testing and inspection required to correct damage to material in shipping and erection.

#### PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

**END OF SECTION 01411** 

#### FIRE ALARM CUTSHEETS AND DSA 103

#### 1. FIRE ALARM CUTSHEETS



# **HPF24S6** and HPF24S8

#### Description

The HPF24S6 and HPF24S8 are compact, cost-effective, 6 amp. or 8 amp. remote power supplies with integral battery chargers. These adaptable power supplies may be connected to any 12 or 24 volt Fire Alarm Control Panel (FACP) or the power supplies may stand-alone. Primary applications include the following:

- · Notification Appliance Circuits (NAC) expansion to support ADA requirements and NAC synchronization
- · Auxiliary power to support 24 volt system accessories

These power supplies provide regulated and filtered 24 VDC power to four (4), notification appliance circuits, configured as either four (4), Class B (Style Y) or Class A (Style A, with ZNAC-4 Option Module). Alternately, the four outputs may be configured as follows:

- · all non-resettable
- · all resettable
- · two non-resettable
- · two resettable

The power supplies also contain a battery charger with a charging capacity of up to 18 Amp Hour batteries.

The HPF24S6 and HPF24S8 power supplies comply with the following Agency standards:

- · NFPA 72 National Fire Alarm Code,
- · UL Standard 864, 9th Edition for control units for Fire Alarm Systems (NAC expander mode).
- · UL 1481 Power Supplies for Fire Alarm Systems (stand-alone mode).

#### Power Supplies with Battery Chargers



dh1061.jpg

**Features** 

- UL<sup>®</sup> Listed NAC synchronization using System Sensor, Cooper-Wheelock or Gentex (Commander Series) appliances
- Uses a cascade of up to ten (10), power supplies or (four (4), power supplies with Gentex) with strobe timing maintained
- Operates as a sync follower or a sync generator
- Contains two (2), fully -isolated input/control circuits energized from FACP notification appliance circuit (NAC expander mode) or jumpered permanently on (stand-alone mode)
- Configured to internally house an addressable SLC control module for alarm activation
- · Supports four (4), Class B (Style Y) or four (4), Class A (Style Z) (with ZNAC-4 Module) notification appliance circuits
- · Provides 6.0A or 8.0A (depending on model) full load output (3.0A maximum per circuit) in NAC expander mode (UL Standard 864)
- · Uses 4.0A or 6.0A continuous output in the stand-alone mode (UL Standard 1481)



UL® is a registered trademark for Underwriter's Laboratories Inc.

GAMEWELL-FCI

12 Clintonville Road, Northford, CT 06472-1610 USA • Tel: (203) 484-7161 • Fax: (203) 484-7118

nformation only, are not intended for installation purposes, and are subject to change without notice. No responsibility is assumed by Gam

inghts reserved.

www.gamewell-fci.com

CS-60062 Rev. Specifications are for information only, are not intended for installati ty is assumed by Gamewell-FCl for their use. CS-60062 Rev. B page 1 of 2 ©2013 by Honeywell International Inc. All rights reserved.

#### Features (Continued)

- · In stand-alone mode, output power circuits are configured as resettable, (using the FACP reset switch), non-resettable, or a combination of both
- · Fully regulated and filtered power output (optimal for powering four-wire smoke detectors, annunciators and other system peripherals requiring regulated/filtered power)
- · Class 2 Power-Limited technology complies with UL Class 2 Power-Limited requirements
- · Includes a normally-closed trouble relay
- · Provides fully, supervised power supply, battery and notification appliance circuits
- · Selectable earth fault detection
- · AC trouble report selectable for immediate or up to an 8 hour delay
- · Compatible with any UL Standard 864 fire alarm control panel which uses an industry standard, reverse polarity, and notification circuit (including unfiltered and unregulated bell power)
- · Requires input trigger voltage of 9.0 -32 VDC
- · Built with a self-contained compact, lockable cabinet 15" H x 14.5" W x 2.75" D (38.1 H x 36.8 W x 7.0 D cm)
- · Includes an integral battery charger capable of charging up to 18 AH batteries. The cabinet has the capacity of housing 7.0 AH batteries
- · Battery charger may be disabled via a DIP (Dual In-Line Package) switch for applications requiring larger batteries
- · Offers fixed, clamp-type terminal blocks that accommodate up to 12 AWG (3.1 mm<sup>2</sup>) wire

#### Specifications

#### Primary (AC) Power

- HPF24S6: 120 VAC 60 Hz, 3.2A maximum
- HPF24S8: 120 VAC 60 Hz, 3.2A maximum
- Wire size: minimum 14 AWG (2.0 mm²) with 600V insulation

#### **Control Input Circuit**

- · Input Voltage: 9.0 to 32 VDC
- Input Current: 2.0 mA (16 32 V) per input 1.0 mA (9 - 16 V)

#### **Trouble Contact Rating**

5.0A at 24 VDC

#### **Auxiliary Power Output**

Specific Application Power - 500 mA maximum

#### **Output Circuits**

- +24 VDC filtered, regulated
- · 3.0A maximum for any one circuit

#### Specifications (Continued)

#### **Output Circuits (Continued)**

- 4.0A maximum total continuous current for all outputs (Stand-alone mode) for the HPF24S6 and 6A for the HPF24S8
- 6A or 8A, depending on the model, maximum total short-term current for all outputs (NAC Expander mode).

#### Secondary Power (Battery) Charging Circuit

- Supports lead-acid batteries only
- Float Charge Voltage: 27.6 VDC
- Maximum Charge Current: 1.5A
- Maximum Battery Capacity: 18 AH

#### Ordering Information

Part Number Description HPF24S6 Remote charger 6A power supply (120 VAC). Includes the main printed circuit board, transformers, red enclosure, and installation instructions **HPF24S8** Remote charger 8A power supply (120 VAC). Includes the main printed circuit board, transformers, red enclosure, and installation instructions FCPS-24S6RB Replacement mother board ZNAC-4 -Class A (Style Z) NAC option module BAT-1270 -Battery, 12 volt, 7.0 AH (two required)

GAMEWELL-FCI

12 Clintonville Road, Northford, CT 06472-1610 USA • Tel: (203) 484-7161 • Fax: (203) 484-7118 ge 2 of 2 www.gamewell-fci.com CS-60062 Rev. B page 2 of 2

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM



#### LISTING SERVICE

**LISTING No.** 7315-1637:0102 Page 1 of 1

CATEGORY: 7315 -- POWER UNITS

LISTEE: Honeywell International Inc.One Fire-Lite Place, Northford, CT 06472

Contact: Lisa Brant (203) 484-6105 Fax (203) 484-7309

Email: lisa.brant@honeywell.com

DESIGN: Models HPF24S6, HPF24S8, HPFF8, HPFF8CM, HPFF8CME, HPFF12,

HPFF12C, \*HPFF12CM and \*HPFF12CME power limited power supply/battery chargers used for supervision and expanded power driving capability of up to four Notification Appliance Circuits (FACP Fire Circuits, Signaling Devices) or resettable/non resettable outputs. Model ZNAC-4 Class A converter. Refer to listee's data sheet for additional detailed

product description and operational considerations.

RATING: 120 VAC, 24 VDC

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes and ordinances

and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, product designation, electrical rating and UL label.

APPROVAL: Listed as power supply/battery chargers for use with separately listed compatible fire alarm

control units.

XLF: 7315-0075:0206

\*Rev. 10-20-10 bh



This listing is based upon technical data submitted by the applicant. CSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other

Date Issued: July 01, 2021 Listing Expires June 30, 2022

Authorized By: DAVID CASTILLO,, M.E., F.P.E.

Fire Engineering Division



### Indoor Selectable-Output Horns, Strobes, and Horn Strobes for Wall Applications

System Sensor L-Series audible visible notification products are rich with features guaranteed to cut installation times and maximize profits with lower current draw and modern aesthetics.

#### **Features**

- · Updated Modern Aesthetics
- · Small profile devices for Horns and Horn Strobes
- Plug-in design with minimal intrusion into the back box
- Tamper-resistant construction
- Automatic selection of 12- or 24-volt operation at 15 and 30 candela
- Field-selectable candela settings on wall units:
   15, 30, 75, 95, 110, 135, and 185
- · Horn rated at 88+ dBA at 16 volts
- Rotary switch for horn tone and two volume selections
- · Mounting plate for all standard and all compact wall units
- Mounting plate shorting spring checks wiring continuity before device installation
- Electrically compatible with legacy SpectrAlert and SpectrAlert Advance devices
- · Compatible with MDL3 sync module
- Strobes and Horn Strobes listed for wall mounting only
- · Horns listed for wall or ceiling use

#### **Agency Listings**











The System Sensor L-Series offers the most versatile and easy-to-use line of horns, strobes, and horn strobes in the industry with lower current draws and modern aesthetics. With white and red plastic housings, standard and compact devices, and plain, FIRE, and FUEGO-printed devices, System Sensor L-Series can meet virtually any application requirement.

The L-Series line of wall-mount horns, strobes, and horn strobes include a variety of features that increase their application versatility while simplifying installation. All devices feature plug-in designs with minimal intrusion into the back box, making installations fast and foolproof while virtually eliminating costly and time-consuming ground faults.

To further simplify installation and protect devices from construction damage, the L-Series utilizes a universal mounting plate for all models with an onboard shorting spring, so installers can test wiring continuity before the device is installed.

Installers can also easily adapt devices to a suit a wide range of application requirements using field-selectable candela settings, automatic selection of 12- or 24-volt operation, and a rotary switch for horn tones with two volume selections.

AVDS865-05 • 2/22/2018 • Page 1

#### L-Series Specifications

#### Architect/Engineer Specifications

#### Genera

L-Series standard horns, strobes, and horn strobes shall mount to a standard 2 x 4 x 17/e-inch back box, 4 x 4 x 11/e-inch back box, 4-inch octagon back box, or double-gang back box. L-Series compact products shall mount to a single-gang 2 x 4 x 17/e-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products for all standard models and a separate universal mounting plate shall be used for mounting wall compact models. The notification appliance circuit wiring shall terminate at the universal mounting plate. Also, L-Series products, when used with the Sync•Circuit'' Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync•Circuit Module, 12-volt-rated notification appliance circuit outputs shall operate between 8.5 and 17.5 volts; 24-volt-rated notification appliance circuit outputs shall operate between 16.5 and 33 volts. Indoor L-Series products shall operate between 32 and 120 degrees Fahrenheit from a regulated DC or full-wave rectified unfiltered power supply. Strobes and horn strobes shall have field-selectable candela settings including 15, 30, 75, 95, 110, 135, and 185.

#### Strobe

The strobe shall be a System Sensor L-Series Model listed to UL 1971 and shall be approved for fire protective service. The strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

#### Horn Strobe Combination

The horn strobe shall be a System Sensor L-Series Model \_\_\_\_\_ listed to UL 1971 and UL 464 and shall be approved for fire protective service. The horn strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system. The horn shall have two audibility options and an option to switch between a temporal three pattern and a non-temporal (continuous) pattern. These options are set by a multiple position switch. The horn on horn strobe models shall operate on a coded or non-coded power supply.

#### Synchronization Module

The module shall be a System Sensor Sync•Circuit model MDL3 listed to UL 464 and shall be approved for fire protective service. The module shall synchronize Strobes at 1 Hz and horns at temporal three. Also, while operating the strobes, the module shall silence the horns on horn strobe models over a single pair of wires. The module shall mot to a 411/16 × 21/16-inch back box. The module shall also control two Style Y (class B) circuits or one Style Z (class A) circuit. The module shall synchronize multiple zones. Daisy chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

| Standard Operating Temperature                 | 32°F to 120°F (0°C to 49°C)                                 |
|------------------------------------------------|-------------------------------------------------------------|
| Humidity Range                                 | 10 to 93% non-condensing                                    |
| Strobe Flash Rate                              | 1 flash per second                                          |
| Nominal Voltage                                | Regulated 12 DC or regulated 24 DC/FWR <sup>1</sup>         |
| Operating Voltage Range <sup>2</sup>           | 8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal)     |
| Operating Voltage Range MDL3 Sync Module       | 8.5 to 17.5 V (12 V nominal) or 16.5 to 33 V (24 V nominal) |
| Input Terminal Wire Gauge                      | 12 to 18 AWG                                                |
| Wall-Mount Dimensions (including lens)         | 5.6"L × 4.7"W × 1.91"D (143 mm L × 119 mm W × 49 mm D)      |
| Compact Wall-Mount Dimensions (including lens) | 5.26" L x 3.46" W x 1.91" D (133 mm L x 88 mm W x 49 mm D)  |
| Horn Dimensions                                | 5.6" L × 4.7" W × 1.25" D (143 mm L × 119 mm W × 32 mm D)   |
| Compact Horn Dimensions                        | 5.25" L x 3.45" W x 1.25" D (133 mm L x 88 mm W x 32 mm D)  |

<sup>1.</sup> Full Wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs.

AVDS865-05 • 2/22/2018 • Page 2

<sup>2.</sup> Strobe products will operate at 12 V nominal only for 15 cd and 30 cd.

#### **UL Current Draw Data**

|         |         | 8-17.5 Volts | 16-33 Volts |     |  |
|---------|---------|--------------|-------------|-----|--|
|         | Candela | DC           | DC          | FWR |  |
| Candela | 15      | 88           | 43          | 60  |  |
| Range   | 30      | 143          | 63          | 83  |  |
|         | 75      | N/A          | 107         | 136 |  |
|         | 95      | N/A          | 121         | 155 |  |
|         | 110     | N/A          | 148         | 179 |  |
|         | 135     | N/A          | 172         | 209 |  |
|         | 185     | N/A          | 222         | 257 |  |

|                      |      | 8-17.5 Volts | 16-33 Volts |     |
|----------------------|------|--------------|-------------|-----|
| Sound Pattern        | dB   | DC           | DC          | FWR |
| Temporal             | High | 39           | 44          | 54  |
| Temporal             | Low  | 28           | 32          | 54  |
| Non-Temporal         | High | 43           | 47          | 54  |
| Non-Temporal         | Low  | 29           | 32          | 54  |
| 3.1 KHz Temporal     | High | 39           | 41          | 54  |
| 3.1 KHz Temporal     | Low  | 29           | 32          | 54  |
| 3.1 KHz Non-Temporal | High | 42           | 43          | 54  |
| 3.1 KHz Non-Temporal | Low  | 28           | 29          | 54  |
| Coded                | High | 43           | 47          | 54  |
| 3.1 KHz Coded        | High | 42           | 43          | 54  |

|                        | 8-17.5 Vo | olts | 16-33 Vo | olts |       |       |          |       |       |
|------------------------|-----------|------|----------|------|-------|-------|----------|-------|-------|
| DC Input               | 15cd      | 30cd | 15cd     | 30cd | 75cd  | 95cd  | 110cd    | 135cd | 185cc |
| Temporal High          | 98        | 158  | 54       | 74   | 121   | 142   | 162      | 196   | 245   |
| Temporal Low           | 93        | 154  | 44       | 65   | 111   | 133   | 157      | 184   | 235   |
| Non-Temporal High      | 106       | 166  | 73       | 94   | 139   | 160   | 182      | 211   | 262   |
| Non-Temportal Low      | 93        | 156  | 51       | 71   | 119   | 139   | 162      | 190   | 239   |
| 3.1K Temporal High     | 93        | 156  | 53       | 73   | 119   | 140   | 164      | 190   | 242   |
| 3.1K Temporal Low      | 91        | 154  | 45       | 66   | 112   | 133   | 160      | 185   | 235   |
| 3.1K Non-Temporal High | 99        | 162  | 69       | 90   | 135   | 157   | 175      | 208   | 261   |
| 3.1K Non-Temporal Low  | 93        | 156  | 52       | 75   | 119   | 138   | 162      | 192   | 242   |
|                        | 16-33 Vo  | olts |          |      |       |       | 10010000 |       |       |
| FWR Input              | 15cd      | 30cd | 75cd     | 95cd | 119cd | 135cd | 185cd    |       |       |
| Temporal High          | 83        | 107  | 156      | 177  | 198   | 234   | 287      |       |       |
| Temporal Low           | 68        | 91   | 145      | 165  | 185   | 223   | 271      |       |       |
| Non-Temporal High      | 111       | 135  | 185      | 207  | 230   | 264   | 316      | 2     |       |
| Non-Temportal Low      | 79        | 104  | 157      | 175  | 197   | 235   | 283      |       |       |
| 3.1K Temporal High     | 81        | 105  | 155      | 177  | 196   | 234   | 284      |       |       |
| 3.1K Temporal Low      | 68        | 90   | 145      | 166  | 186   | 222   | 276      |       |       |
| 3 1K Non-Temporal High | 104       | 131  | 177      | 204  | 230   | 264   | 326      |       |       |
| 3.1K Non-Temporal Low  | 77        | 102  | 156      | 177  | 199   | 234   | 291      |       |       |

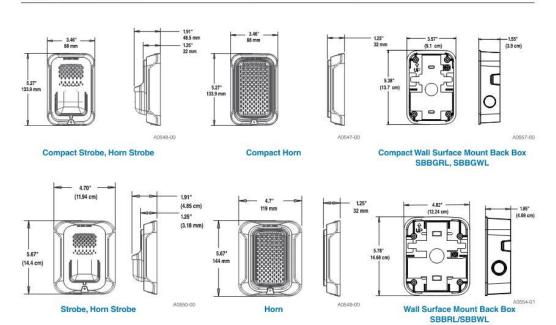
#### **Horn Tones and Sound Output Data**

| Switch   |                      |      | 8-17.5<br>Volts | 16-33<br>Volts |     |
|----------|----------------------|------|-----------------|----------------|-----|
| Position | Sound Pattern        | dB   | DC              | DC             | FWF |
| 1        | Temporal             | High | 84              | 89             | 89  |
| 2        | Temporal             | Low  | 75              | 83             | 83  |
| 3        | Non-Temporal         | High | 85              | 90             | 90  |
| 4        | Non-Temporal         | Low  | 76              | 84             | 84  |
| 5        | 3.1 KHz Temporal     | High | 83              | 88             | 88  |
| 6        | 3.1 KHz Temporal     | Low  | 76              | 82             | 82  |
| 7        | 3.1 KHz Non-Temporal | High | 84              | 89             | 89  |
| 8        | 3.1 KHz Non-Temporal | Low  | 77              | 83             | 83  |
| 9*       | Coded                | High | 85              | 90             | 90  |
| 10*      | 3.1 KHz Coded        | High | 84              | 89             | 89  |

\* Settings 9 and 10 are not available on 2-wire horn strobes. Temporal coding must be provided by the NAC. If the NAC voltage is held constant, the horn output remains constantly on.

AVDS865-05 • 2/22/2018 • Page 3

#### L-Series Dimensions

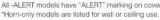


#### L-Series Ordering Information

| Model            | Description                                |
|------------------|--------------------------------------------|
| Wall Horn Strobe | s                                          |
| P2RL             | 2-Wire, Horn Strobe, Red                   |
| P2WL             | 2-Wire, Horn Strobe, White                 |
| P2GRL            | 2-Wire, Compact Horn Strobe, Red           |
| P2GWL            | 2-Wire, Comp 2 fils act Horn Strobe, White |
| P2RL-P           | 2-Wire, Horn Strobe, Red, Plain            |
| P2WL-P           | 2-Wire Horn Strobe, White Plain            |
| P2RL-SP          | 2 Wire, Horn Strobe, Red, FUESQ            |
| P2WL-SP          | 2-Wire, Horn Strobe, White, FUEGO          |
| P4RL             | 4-Wire, Horn Strobe, Red                   |
| P4WL             | 4-Wire, Horn Strobe, White                 |
| Wall Strobes     |                                            |
| SRL              | Strobe, Red                                |
| SWL              | Strobe, White                              |
| SGRL             | Compact Strobe, Red                        |
| SGWL             | Compact Strobe, White                      |
| SRL-P            | Strobe, Red, Plain                         |
| SWL-P            | Strobe, White, Plain                       |
| SRL-SP           | Strobe, Red, FUEGO                         |
| SWL-CLR-ALERT    | Strobe, White, ALERT                       |

| Model     | Description                                |
|-----------|--------------------------------------------|
| Horns*    |                                            |
| HRL*      | Horn, Red                                  |
| HWL*      | Horn, White                                |
| HGRL*     | Compact Horn, Red                          |
| HGWL*     | Compact Horn, White                        |
| Accessori | es                                         |
| TR-2      | Universal Wall Trim Ring Red               |
| TR-2W     | Universal Wall Trim Ring White             |
| SBBRL     | Wall Surface Mount Back Box, Red           |
| SBBWL     | Wall Surface Mount Back Box, White         |
| SBBGRL    | Compact Wall Surface Mount Back Box, Red   |
| SBBGWL    | Compact Wall Surface Mount Back Box, White |

All -P models have a plain housing (no "FIRE" marking on cover).
All -SP models have "FUEGO" marking on cover.
All -ALERT models have "ALERT" marking on cover.
"Horn-only models are listed for wall or ceiling use.





3825 Ohio Avenue • St. Charles, IL 60174 Phone: 800-SENSOR2 • Fax: 630-377-6495 www.systemsensor.com

©2018 System Sensor.

Product specifications subject to change without notice. Visit systemsensor.cor for current product information, including the latest version of this data sheet. AVDS865-05 • 2/2/2018

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM



#### LISTING SERVICE

**LISTING No.** 7125-1653:0504 Page 1 of 2

CATEGORY: 7125 -- FIRE ALARM DEVICES FOR THE HEARING IMPAIRED

LISTEE: System Sensor, Unincorporated Div of Honeywell Int'l Inc.3825 Ohio Ave, St. Charles, IL

60174

Contact: Lisa Brant (203) 484-6105 Fax (203) 484-7309

Email: lisa.brant@honeywell.com

DESIGN: System Sensor Indoor 2-wire Models:

SRL, SWL, SGRL, SGWL, SRL-P SWL-P, SRL-SP, SWL-CLR-ALERT and SWL-ALERT

Wall Strobes;

SCRL, SCWL and SCWL-CLR-ALERT Ceiling Strobes.

Wall Bezel Parts:

BZR-F, BZR-AL, BZR-AG, BZR-EV, BZR-P, BZR-SP, BZR-PG, BZW-F, BZW-AL, BZW-AG, BZW-EV, BZW-P, BZW-SP, BZW-PG, BZGR-F, BZGR-AL, BZGR-AG, BZGR-EV, BZGR-P, BZGR-SP, BZGR-PG, BZGW-F, BZGW-AL, BZGW-AG, BZGW-EV, BZGW-P, BZGW-SP and BZGW-PG,

Ceiling Bezel Parts:

BZRC-F, BZRC-AL, BZRC-AG, BZRC-EV, BZRC-P, BZRC-SP, BZRC-PG, BZWC-F, BZWC-AL, BZWC-AG, BZWC-EV, BZWC-P, BZWC-SP and BZWC-PG.

Color Lens:

 ${\sf LENS-A2, LENS-B2, LENS-G2, LENS-R2, LENS-AC2, LENS-BC2, LENS-GC2} \ and \ \\$ 

LENS-RC2.

WallTrim Rings: TR2 and TR2W

CeilingTrim Rings: TRC2 and TRC2W.

Wall Surface Mounted Back Boxes: SBBRL, SBBGRL, SBBWL and SBBGWL.

Ceiling Surface Mounted Back Boxes:

SBBCRL and SBBCWL

Refer to listee's data sheet for detailed product description and operational considerations.

\*Rev 04-04-19 gt



This listing is based upon technical data submitted by the applicant. CSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other

Date Issued: July 01, 2021 Listing Expires June 30, 2022

Authorized By: DAVID CASTILLO,, M.E., F.P.E.

Fire Engineering Division

#### CONTRA COSTA COMMUNITY COLLEGE DISTRICT DVC - PRINT SHOP, STUDENT SUCCESS, & HEALTH SERVICES RENOVATION

75-21809-00 APRIL 22, 2022 ADDENDUM 1

Listing No. 7125-1653:0504

Page 2 of 2

RATING: Regulated 12 VDC setting: 8-17.5 VDC

Regulated 24 VDC/fwr setting: 16-33 VDC

INSTALLATION: In accordance with listee's printed installation instructions, NFPA 72, applicable codes &

ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, electrical rating, and UL label.

APPROVAL: Listed as two wire strobe units used for synchronous application when used with separately

listed compatible fire alarm control units. Suitable for indoor use, vertical wall or horizontal

ceiling mounted. \*Listed with software code, S05-0048-001 for low temperature

compensation. Authority having jurisdiction should be consulted prior to installation. Refer to

listee's Installation Instruction Manual for details.

\*Rev 04-04-19 gt



This listing is based upon technical data submitted by the applicant. CSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other

Date Issued: July 01, 2021 Listing Expires June 30, 2022

Authorized By: DAVID CASTILLO,, M.E., F.P.E.

Fire Engineering Division

#### 2. DSA 103-19

#### DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2019 CBC

 Application Number:
 School Name:
 School District:

 01-119997
 Diablo Valley College
 Contra Costa Community College District

 DSA File Number:
 Increment Number:
 Date Created:

 07-C1
 2022-04-18 08:30:50

#### 2019 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project.

Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2019 CBC).

\*\*NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

#### **KEY TO COLUMNS**

| 1. TYPE                                                                 | 2. PERFORMED BY                                                                                                                                                                               |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Continuous – Indicates that a continuous special inspection is required | GE – Indicates that the special inspection shall be performed by a<br>registered geotechnical engineer or his or her authorized<br>representative.                                            |
| Periodic – Indicates that a periodic special inspection is required     | LOR – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335. |
|                                                                         | PI – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.                                                                         |
| Test – Indicates that a test is required                                | SI – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.                                                                       |

DGS DSA 103-19 (Revised 07/16/2020)

DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES
Page 1 of 13

#### CONTRA COSTA COMMUNITY COLLEGE DISTRICT DVC - PRINT SHOP, STUDENT SUCCESS, & HEALTH SERVICES RENOVATION

75-21809-00 APRIL 22, 2022 ADDENDUM 1

# DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC 1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16 Application Number: School Name: School Name: Online Objection School District: Contra Costa Community College

Diablo Valley College Increment Number:

DSA File Number: 07-C1 Date Created: 2022-04-18 08:30:50

| 17. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUI                                                                                                                                                    | MINUM USED                                                                                                                                                                                                                                                                                                                                                                                     | FOR STRUCT                                                                                                                                                                                                                                                                                                                                                                                                | JRAL PURPOSES                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| rial Verification and Testing:                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test or Special Inspection                                                                                                                                                                          | Туре                                                                                                                                                                                                                                                                                                                                                                                           | Performed<br>By                                                                                                                                                                                                                                                                                                                                                                                           | Code References and Notes                                                                                                                                                                                                                                                                                                                                                                                                           |
| a. Verify identification of all materials and:     • Mill certificates indicate material properties that comply with requirements.     • Material sizes, types and grades comply with requirements. | Periodic                                                                                                                                                                                                                                                                                                                                                                                       | *                                                                                                                                                                                                                                                                                                                                                                                                         | Table 1705 A.2.1 Item 3a–3c. 2202 A.1; AISI S100-16 Section A3.1 & A3.2, AISI S240-15 Section A3 & A5, AISI S220-15 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.                                                                                                                                                                                                                       |
| b. Test unidentified materials                                                                                                                                                                      | Test                                                                                                                                                                                                                                                                                                                                                                                           | LOR                                                                                                                                                                                                                                                                                                                                                                                                       | 2202A.1.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| c. Examine seam welds of HSS shapes                                                                                                                                                                 | Periodic                                                                                                                                                                                                                                                                                                                                                                                       | SI                                                                                                                                                                                                                                                                                                                                                                                                        | DSA IR 17-3.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ection:                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| d. Verify and document steel fabrication per DSA-approved construction documents.                                                                                                                   | Periodic                                                                                                                                                                                                                                                                                                                                                                                       | SI                                                                                                                                                                                                                                                                                                                                                                                                        | Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).                                                                                                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                     | rial Verification and Testing:  Test or Special Inspection  a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements. b. Test unidentified materials c. Examine seam welds of HSS shapes  ection:  d. Verify and document steel fabrication per DSA-approved | rial Verification and Testing:  Test or Special Inspection  a. Verify identification of all materials and:  Mill certificates indicate material properties that comply with requirements.  Material sizes, types and grades comply with requirements.  b. Test unidentified materials  c. Examine seam welds of HSS shapes  d. Verify and document steel fabrication per DSA-approved  Periodic  Periodic | Test or Special Inspection  Type Performed By  a. Verify identification of all materials and:  Mill certificates indicate material properties that comply with requirements.  Material sizes, types and grades comply with requirements.  b. Test unidentified materials  c. Examine seam welds of HSS shapes  d. Verify and document steel fabrication per DSA-approved  d. Verify and document steel fabrication per DSA-approved |

|      | 18. HIGH-STRENGTH BOLTS: RCSC 2014                                                                                                                 |                |                 |                                                                                                                                           |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Mate | rial Verification and Testing of High-Strength Bolts, Nut                                                                                          | s and Washers: |                 |                                                                                                                                           |
|      | Test or Special Inspection                                                                                                                         | Туре           | Performed<br>By | Code References and Notes                                                                                                                 |
|      | A. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents. | Periodic       | SI              | Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9. |

DGS DSA 103-19 (Revised 07/16/2020)

DIVISION OF THE STATE ARCHITECT

DEPARTMENT OF GENERAL SERVICES Page 2 of 13

#### CONTRA COSTA COMMUNITY COLLEGE DISTRICT DVC - PRINT SHOP, STUDENT SUCCESS, & HEALTH SERVICES RENOVATION

75-21809-00 APRIL 22, 2022 ADDENDUM 1

#### DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16
Application Number: School Name: School District:

Application Number: 01-119997 Diablo Valley College Increment Number: Contra Costa Community College District

DSA File Number: 07-C1 Date Created: 2022-04-18 08:30:50

| nspe   | ction of High-Strength Bolt Installation:                                                                                          |          |                 |                                                                                                                                                                                                        |
|--------|------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | c. Bearing-type ("snug tight") connections.                                                                                        | Periodic | SI              | Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.                                                                                  |
|        | d. Pretensioned and slip-critical connections.                                                                                     | *        | SI              | Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. * "Continuous" or "Periodic" depends on the tightening method used. |
|        | 19. WELDING:                                                                                                                       |          | inum; AWS D1    | 1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS<br>.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-<br>ions.)                                                       |
| Verifi | ication of Materials, Equipment, Welders, etc.:                                                                                    |          |                 |                                                                                                                                                                                                        |
|        | Test or Special Inspection                                                                                                         | Туре     | Performed<br>By | Code References and Notes                                                                                                                                                                              |
| 7      | a. Verify weld filler material identification markings per<br>AWS designation listed on the DSA-approved documents<br>and the WPS. | Periodic | SI              | DSA IR 17-3.                                                                                                                                                                                           |

Test LOR Table 1705A.2.1 Item 1c, 2213A.1; RCSC 2014 Section 7.2; DSA IR 17-8.

DGS DSA 103-19 (Revised 07/16/2020)

b. Verify weld filler material manufacturer's certificate of

c. Verify WPS, welder qualifications and equipment.

b. Test high-strength bolts, nuts and washers.

DIVISION OF THE STATE ARCHITECT

compliance.

DEPARTMENT OF GENERAL SERVICES Page 3 of 13

SI

SI

DSA IR 17-3.

DSA IR 17-3.

Periodic

Periodic

# DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC 1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16 Application Number: School Name: School Name: Online Objection School District: Contra Costa Community College

Diablo Valley College Increment Number:

DSA File Number: 07-C1 Date Created: 2022-04-18 08:30:50

| 19.1 SHOP WELDING:                                                                                       |            |                 |                                                                                                         |  |  |  |  |
|----------------------------------------------------------------------------------------------------------|------------|-----------------|---------------------------------------------------------------------------------------------------------|--|--|--|--|
| Test or Special Inspection                                                                               | Туре       | Performed<br>By | Code References and Notes                                                                               |  |  |  |  |
| a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds. | Continuous | SI              | Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.                 |  |  |  |  |
| b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.                                  | Periodic   | SI              | 1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3. |  |  |  |  |
| c. Inspect welding of stairs and railing systems.                                                        | Periodic   | SI              | <b>1705A.2.1</b> ; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.           |  |  |  |  |
| d. Verification of reinforcing steel weldability other than ASTM A706.                                   | Periodic   | SI              | 1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.               |  |  |  |  |
| e. Inspect welding of reinforcing steel.                                                                 | Continuous | SI              | Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.               |  |  |  |  |

|          | 19.2 FIELD WELDING:                                                                                      |            |                 |                                                                                     |  |  |
|----------|----------------------------------------------------------------------------------------------------------|------------|-----------------|-------------------------------------------------------------------------------------|--|--|
|          | Test or Special Inspection                                                                               | Туре       | Performed<br>By | Code References and Notes                                                           |  |  |
|          | a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds. | Continuous | SI              | Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3. |  |  |
| <b>V</b> | b. Inspect single-pass fillet welds ≤ 5/16".                                                             | Periodic   | SI              | Table 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.    |  |  |

DGS DSA 103-19 (Revised 07/16/2020)

DIVISION OF THE STATE ARCHITECT

DEPARTMENT OF GENERAL SERVICES Page 4 of 13

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

Application Number: School Name: School Name: Online Objection School District: Contra Costa Community College Diablo Valley College Increment Number:

DSA File Number: 07-C1 Date Created: 2022-04-18 08:30:50

| c. Inspect end-welded studs (ASTM A-108) installation (including bend test). | Periodic   | SI  | <b>2213A.2</b> ; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3.                                                                                                            |
|------------------------------------------------------------------------------|------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| d. Inspect floor and roof deck welds.                                        | Periodic   | SI  | 1705A.2.2, Table 1705A.2.1 Item 5a.6; AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3.                                                                                       |
| e. Inspect welding of structural cold-formed steel.                          | Periodic   | SI* | 1705A.2.5; AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240-15 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA. |
| f. Inspect welding of stairs and railing systems.                            | Periodic   | SI* | 1705A.2.1; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.                            |
| g. Verification of reinforcing steel weldability.                            | Periodic   | SI  | 1705 A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.                                                                                                  |
| h. Inspect welding of reinforcing steel.                                     | Continuous | SI  | Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.                                                                                                   |

| 20. NONDESTRUCTIVE TESTING:<br>1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16 |      |                 |                                                                                                                             |  |  |
|-----------------------------------------------------------------------------------------------------------------------------|------|-----------------|-----------------------------------------------------------------------------------------------------------------------------|--|--|
| Test or Special Inspection                                                                                                  | Туре | Performed<br>By | Code References and Notes                                                                                                   |  |  |
| a. Ultrasonic                                                                                                               | Test | LOR             | 1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; ANSI/<br>ASNT CP-189, SNT-TC-1A; AWS D1.1, AWS D1.8; DSA IR 17-2. |  |  |

DGS DSA 103-19 (Revised 07/16/2020)

DIVISION OF THE STATE ARCHITECT

DEPARTMENT OF GENERAL SERVICES Page 5 of 13

#### CONTRA COSTA COMMUNITY COLLEGE DISTRICT DVC - PRINT SHOP, STUDENT SUCCESS, & HEALTH SERVICES RENOVATION

75-21809-00 APRIL 22, 2022 ADDENDUM 1

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

Application Number: School Name: School Name: Online Objection School District: Contra Costa Community College Diablo Valley College Increment Number: DSA File Number: 07-C1 Date Created: 2022-04-18 08:30:50

| b. Magnetic Particle | Test | LOR | 1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; ANSI/<br>ASNT CP-189, SNT-TC-1A; AWS D1.1, AWS D1.8; DSA IR 17-2. |
|----------------------|------|-----|-----------------------------------------------------------------------------------------------------------------------------|
| c.                   | Test | LOR |                                                                                                                             |

| 21. STEEL JOISTS AND TRUSSES: 1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16                                                                                                                                     |            |                 |                                                                                                                             |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------|--|
| Test or Special Inspection                                                                                                                                                                                                                                     | Туре       | Performed<br>By | Code References and Notes                                                                                                   |  |
| a. Verify size, type and grade for all chord and web<br>members as well as connectors and weld filler material;<br>verify joist profile, dimensions and camber (if applicable);<br>verify all weld locations, lengths and profiles; mark or tag<br>each joist. | Continuous | SI              | 1705A.2.3, Table 1705A.2.3; AWS D1.1; DSA IR 22-3 for steel joists only. 1705A.2.4; AWS D1.3 for cold-formed steel trusses. |  |

| 22. SPRAY APPLIED FIRE-PROOFING: 1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16                                                      |          |                 |                           |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|---------------------------|--|
| Test or Special Inspection                                                                                                                                                         | Туре     | Performed<br>By | Code References and Notes |  |
| Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents. | Periodic | SI              | 1705A.14.                 |  |
| b. Test bond strength.                                                                                                                                                             | Test     | LOR             | 1705A.14.6.               |  |

DGS DSA 103-19 (Revised 07/16/2020)

DIVISION OF THE STATE ARCHITECT

DEPARTMENT OF GENERAL SERVICES Page 6 of 13

#### CONTRA COSTA COMMUNITY COLLEGE DISTRICT DVC - PRINT SHOP, STUDENT SUCCESS, & HEALTH SERVICES RENOVATION

75-21809-00 APRIL 22, 2022 ADDENDUM 1

# DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC 1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16 Application Number: School Name: School Name: Online Objection School District: Contra Costa Community College

Diablo Valley College Increment Number:

DSA File Number: 07-C1 Date Created: 2022-04-18 08:30:50

| c. Test density.                                   | Test                                                                                                                       | LOR                                                                                                                                                                        | 1705A.14.5.                                                                                                                                                                                                        |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                    |                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                                                                    |
| 23. ANCHOR BOLTS AND ANCHOR RODS:                  |                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                                                                    |
| Test or Special Inspection                         | Туре                                                                                                                       | Performed<br>By                                                                                                                                                            | Code References and Notes                                                                                                                                                                                          |
| a. Anchor Bolts and Anchor Rods                    | Test                                                                                                                       | LOR                                                                                                                                                                        | Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.                                                                                                        |
| b. Threaded rod not used for foundation anchorage. | Test                                                                                                                       | LOR                                                                                                                                                                        | Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.                                                                                                                       |
|                                                    | :0:                                                                                                                        | , i                                                                                                                                                                        |                                                                                                                                                                                                                    |
| Other Steel                                        |                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                                                                    |
| Test or Special Inspection                         | Туре                                                                                                                       | Performed<br>By                                                                                                                                                            | Code References and Notes                                                                                                                                                                                          |
| a.                                                 |                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                                                                    |
|                                                    | a. Anchor Bolts and Anchor Rods b. Threaded rod not used for foundation anchorage.  Other Steel Test or Special Inspection | Test or Special Inspection  Type  a. Anchor Bolts and Anchor Rods  Test  b. Threaded rod not used for foundation anchorage.  Test  Other Steel  Test or Special Inspection | Test or Special Inspection  Type Performed By  a. Anchor Bolts and Anchor Rods  Test LOR  b. Threaded rod not used for foundation anchorage.  Test LOR  Other Steel  Test or Special Inspection  Type Performed By |

DGS DSA 103-19 (Revised 07/16/2020)

DIVISION OF THE STATE ARCHITECT

DEPARTMENT OF GENERAL SERVICES Page 7 of 13

# CONTRA COSTA COMMUNITY COLLEGE DISTRICT DVC - PRINT SHOP, STUDENT SUCCESS, & HEALTH SERVICES RENOVATION

75-21809-00 APRIL 22, 2022 ADDENDUM 1

#### DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (WOOD), 2019 CBC

Application Number: School Name: School District: Contra Costa Community College District

DSA File Number: Increment Number: Date Created: 2022-04-18 08:30:50

| 24. PREFABRICATED WOOD STRUCTURAL ELEMENTS: Section 1705A.5               |            |                 |                                  |  |
|---------------------------------------------------------------------------|------------|-----------------|----------------------------------|--|
| Test or Special Inspection                                                | Туре       | Performed<br>By | Code References and Notes        |  |
| a. Inspect fabrication of structural glued-laminated timber.*             | Continuous | SI              | * See 1705A.5.4 for exceptions   |  |
| b. Inspect fabrication of manufactured open-web trusses.                  | Continuous | SI              | 1705A.5.5; DSA IR 23-8.          |  |
| c. Inspect fabrication of manufactured metal-plate-<br>connected trusses. | Continuous | SI              | 1705A.5, 1705A.5.2; DSA IR 23-4. |  |

|          | 25. OTHER Wood:                                                                          |          |                 |                           |  |
|----------|------------------------------------------------------------------------------------------|----------|-----------------|---------------------------|--|
|          | Test or Special Inspection                                                               | Туре     | Performed<br>By | Code References and Notes |  |
| <b>V</b> | Verify installation of wood framing for general conformance with construction documents. | Periodic | SI              |                           |  |
| V        | b. Verify installation of light gauge steel connectors.                                  | Periodic | SI              |                           |  |
| V        | c. Verify shear wall sheathing nailing and spacing.                                      | Periodic | SI              |                           |  |

DGS DSA 103-19 (Revised 07/16/2020)

DIVISION OF THE STATE ARCHITECT

DEPARTMENT OF GENERAL SERVICES Page 8 of 13

#### CONTRA COSTA COMMUNITY COLLEGE DISTRICT DVC - PRINT SHOP, STUDENT SUCCESS, & HEALTH SERVICES RENOVATION

75-21809-00 APRIL 22, 2022 ADDENDUM 1

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

 Application Number:
 School Name:
 School District:

 01-119997
 Diablo Valley College
 Contra Costa Community College District

 DSA File Number:
 Increment Number:
 Date Created:

 07-C1
 2022-04-18 08:30:50

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. <u>Items marked as exempt shall be identified on the approved construction documents</u>. The project inspector shall verify all construction complies with the approved construction documents.

# SOILS: 1. Deep foundations acting as a cantilever footing designed based on minimum allowable pressures per CBC Table 1806A.2 and having no geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade. 2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill. CONCRETE/MASONRY: 1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding") given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding." 2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.

DGS DSA 103-19 (Revised 07/16/2020)

DIVISION OF THE STATE ARCHITECT

DEPARTMENT OF GENERAL SERVICES Page 9 of 13

# CONTRA COSTA COMMUNITY COLLEGE DISTRICT DVC - PRINT SHOP, STUDENT SUCCESS, & HEALTH SERVICES RENOVATION

75-21809-00 APRIL 22, 2022 ADDENDUM 1

| Application Number:<br>01-119997 |                                                                                                                                                                                                                                                                                                      | School Name:                                                                                         | School District: Contra Costa Community College District                                                                                                                                                                                                       |  |  |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|                                  | ile Number:                                                                                                                                                                                                                                                                                          | Diablo Valley College<br>Increment Number:                                                           | Date Created: 2022-04-18 08:30:50                                                                                                                                                                                                                              |  |  |
|                                  |                                                                                                                                                                                                                                                                                                      |                                                                                                      |                                                                                                                                                                                                                                                                |  |  |
|                                  |                                                                                                                                                                                                                                                                                                      | hear masonry walls may be exempt from certain<br>Instruction documents for specific exemptions a     | n DSA masonry testing and special inspection items as allowed per DSA accordingly for each applicable wall condition.                                                                                                                                          |  |  |
|                                  | 4. Epoxy shear dowel                                                                                                                                                                                                                                                                                 | s in site flatwork and/or other non-structural co                                                    | ncrete.                                                                                                                                                                                                                                                        |  |  |
|                                  | 5. Testing of reinforci in that section.                                                                                                                                                                                                                                                             | ng bars is not required for items given in CBC Se                                                    | ection 1910A.2 subject to the requirements and limitations                                                                                                                                                                                                     |  |  |
|                                  | Welding:                                                                                                                                                                                                                                                                                             |                                                                                                      |                                                                                                                                                                                                                                                                |  |  |
|                                  |                                                                                                                                                                                                                                                                                                      |                                                                                                      | g section for rolling gates of 10' and apex height less than 8'-0" above lowest<br>elow, these gates are not located within 1.5x gate/fence height (max 8'-0") to th                                                                                           |  |  |
|                                  |                                                                                                                                                                                                                                                                                                      | ls, and modular or relocatable ramps associated<br>Exception' language in Section 1705A.2.1); fillet | with walking surfaces less than 30" above adjacent grade (excluding post base welds shall not be ground flush.                                                                                                                                                 |  |  |
|                                  | weight and light-weight                                                                                                                                                                                                                                                                              | ght finishes or adhered tile, masonry, stone, or to<br>way. Maximum tributary load to a member shall | an 15'-0", such as in interior partitions, interior soffits, etc. supporting only self<br>erra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in heigh<br>not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall |  |  |
|                                  | weighing less than 20                                                                                                                                                                                                                                                                                |                                                                                                      | ormed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment<br>nes to superstructure elements using welding will require special inspection as<br>pove).                                                                                 |  |  |
|                                  | 5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connect components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections 19, 19.1 and listing above). |                                                                                                      |                                                                                                                                                                                                                                                                |  |  |

DGS DSA 103-19 (Revised 07/16/2020)

DIVISION OF THE STATE ARCHITECT

DEPARTMENT OF GENERAL SERVICES Page 10 of 13

# CONTRA COSTA COMMUNITY COLLEGE DISTRICT DVC - PRINT SHOP, STUDENT SUCCESS, & HEALTH SERVICES RENOVATION

75-21809-00 APRIL 22, 2022 ADDENDUM 1

| Annendiy: Work  | Exempt from DS   | A Requirements f     | or Structural | Tests / Specia | Inspections     |
|-----------------|------------------|----------------------|---------------|----------------|-----------------|
| Appellula, Wolk | EVELLING HOUR DO | A Neguli cilicilis i | u su ucturar  | rests/ specia  | ı iliəpectivilə |

Application Number: School Name: School District:
01-11997 Diablo Valley College Contra Costa Community College District
DSA File Number: Date Created:
07-C1 2022-04-18 08:30:50

- 6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 located in the Steel/Aluminum category).
- 7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.</p>

DGS DSA 103-19 (Revised 07/16/2020)

DIVISION OF THE STATE ARCHITECT

DEPARTMENT OF GENERAL SERVICES Page 11 of 13

75-21809-00 APRIL 22, 2022 ADDENDUM 1

| Application Number:                      | School Name:                                       | School District:                                                                  |
|------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------|
| 01-119997                                | Diablo Valley College                              | Contra Costa Community College District                                           |
| DSA File Number:                         | Increment Number:                                  | Date Created:                                                                     |
| 07-C1                                    |                                                    | 2022-04-18 08:30:50                                                               |
| Name of Architect or Engineer in genera  | al responsible charge:                             |                                                                                   |
| Name of Structural Engineer (When stru   | ctural design has been delegated):                 |                                                                                   |
|                                          |                                                    |                                                                                   |
| Signature of Architect or Structural Eng | ineer: Date:                                       |                                                                                   |
| man                                      | 4/18/2022                                          |                                                                                   |
| Note: To facilitate DSA electro          | nic mark-ups and identification stamp application, | DSA recommends against using secured electronic or digital signatures.  DSA STAMP |
|                                          |                                                    |                                                                                   |
|                                          |                                                    |                                                                                   |
|                                          |                                                    |                                                                                   |

Page 12 of 13

# CONTRA COSTA COMMUNITY COLLEGE DISTRICT DVC - PRINT SHOP, STUDENT SUCCESS, & HEALTH SERVICES RENOVATION

75-21809-00 APRIL 22, 2022 ADDENDUM 1

#### DSA 103-19: LIST OF REQUIRED VERIFIED REPORTS, CBC 2019

| Application Number: | School Name:          | School District:                        |
|---------------------|-----------------------|-----------------------------------------|
| 01-119997           | Diablo Valley College | Contra Costa Community College District |
| DSA File Number:    | Increment Number:     | Date Created:                           |
| 07-C1               |                       | 2022-04-18 08:30:50                     |

- 1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
- 2. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
- 3. Field Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

DGS DSA 103-19 (Revised 07/16/2020)

DIVISION OF THE STATE ARCHITECT

DEPARTMENT OF GENERAL SERVICES Page 13 of 13 STATE OF CALIFORNIA

#### **END OF SECTION**