## Attachment D-3

## CUPERTINO PUBLIC LIBRARY EXPANSION

100% BRIDGING DOCUMENT SET

JUNE 1, 2020

PROJECT TEAM

T: (415) 474-9500



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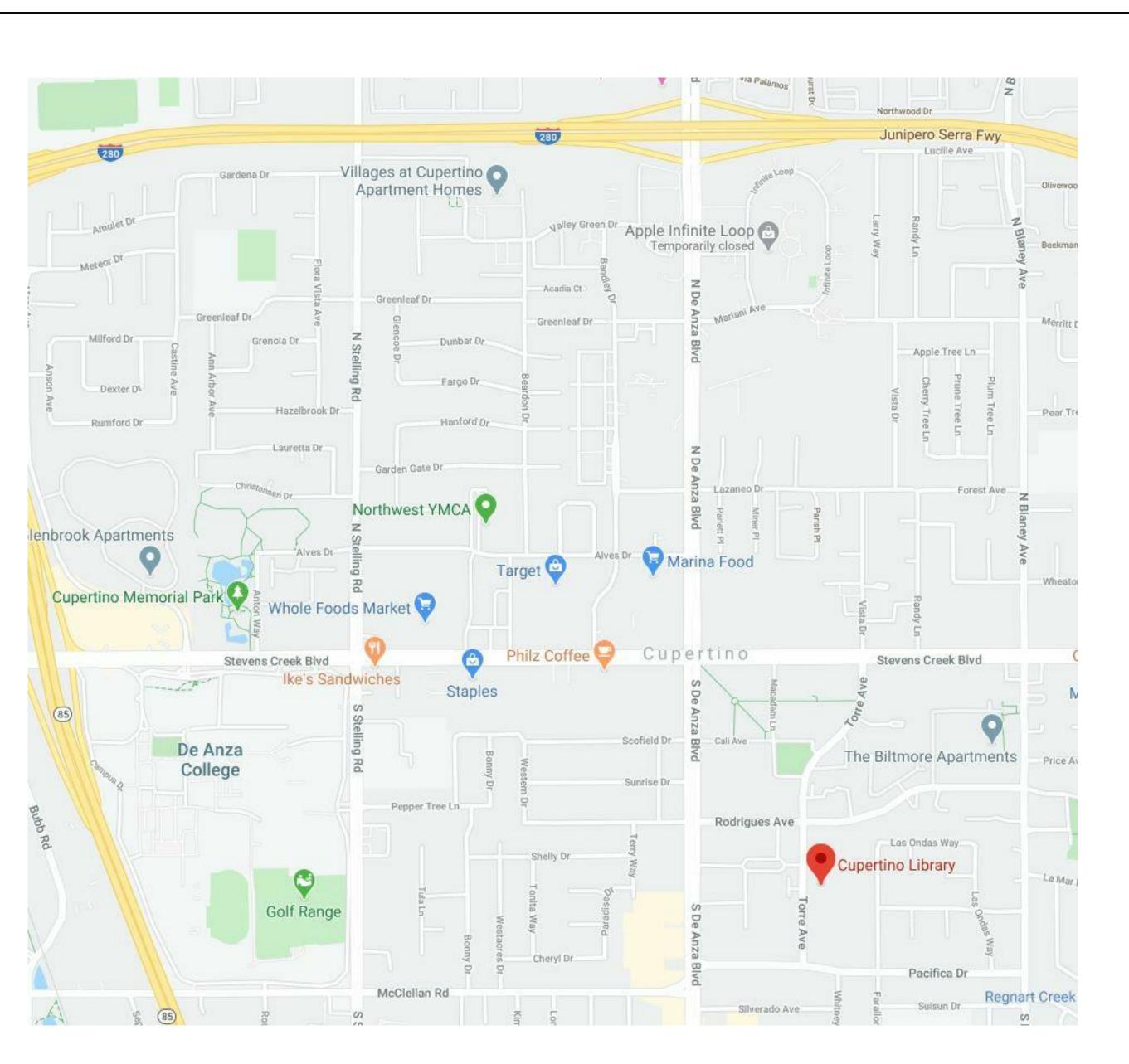
**GENERAL** 

SOUTH EAST PERSPECTIVE VIEW

PROJECT LOCATION:
CUPERTINO PUBLIC LIBRARY PROGRAM EXPANSION BUILDING ARCHITECT EHDD ARCHITECTURE <u>PROJECT SCOPE:</u>
APPROXIMATELY 5,600 SF TWO STORY ADDITION OF PROGRAM SPACE, RESTROOMS, PIER 1, BAY 2 THE EMBARCADERO SAN FRANCISCO, CA 94111 STORAGE, PANTRY T: (415) 285-9193 CIVIL ENGINEER CODE REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING: APPLICABLE STATE CODES: 1700 S WINCHESTER BLVD. #200 2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, CBSC CAMPBELL, CA 95008 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, CBSC 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, CBSC T: (408) 636-0900 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, CBSC 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, CBSC 2019 CALIFORNIA ENERGY CODE (CPC), PART 6, CBSC STRUCTURAL ENGINEER 2019 CALIFORNIA FIRE CODE, PART 9, CBSC 2019 CALIFORNIA EXISTING BUILDING CODE PART 10 DAEDALUS 2019 CALIFORNIA GREEN BUILDING CODE PART 11 12930 SARATOGA AVE 2019 CALIFORNIA REFERENCED STANDARDS, PART 12, CBSC SARATOGA, CA 95070 2019 CALIFORNIA EXISTING BUILDING CODE PART 10 T: (408) 517-0373 TITLE 8 C.C.R., CH. 4, SUB-CH. 6-ELEVATOR SAFETY ORDERS TITLE 19 C.C.R., PUBLIC SAFETY, SFM REGULATIONS MECHANICAL/ ELECTRICAL/ PLUMBING ENGINEER APPLICABLE FEDERAL CODES & STANDARDS: 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, TITLE II GAYNER ENGINEERS OCCUPANCY CLASSIFICATION & TYPE OF CONSTRUCTION:
OCCUPANCY TYPE A-3, CONSTRUCTION TYPE II-A; SPRINKLERED 311 POST STREET SAN FRANCISCO, CA 94109

PROJECT DATA

VICINITY MAP



CUPERTINO
PUBLIC
LIBRARY
EXPANSION

10800 TORRE AVENU

# endd.

PIER 1, BAY 2 THE EMBARCADERO SAN FRANCISCO, CA 94111

INFO@EHDD.COM +1 415-285-9193

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Printing Date

COST MODEL DRAWINGS 05.04.2020
BRIDGING DOCUMENTS 100% SD 06.01.2020

visions and Description Date

Revisions and Description Date

Scale 12" = 1'-0"

Drawn by
Author

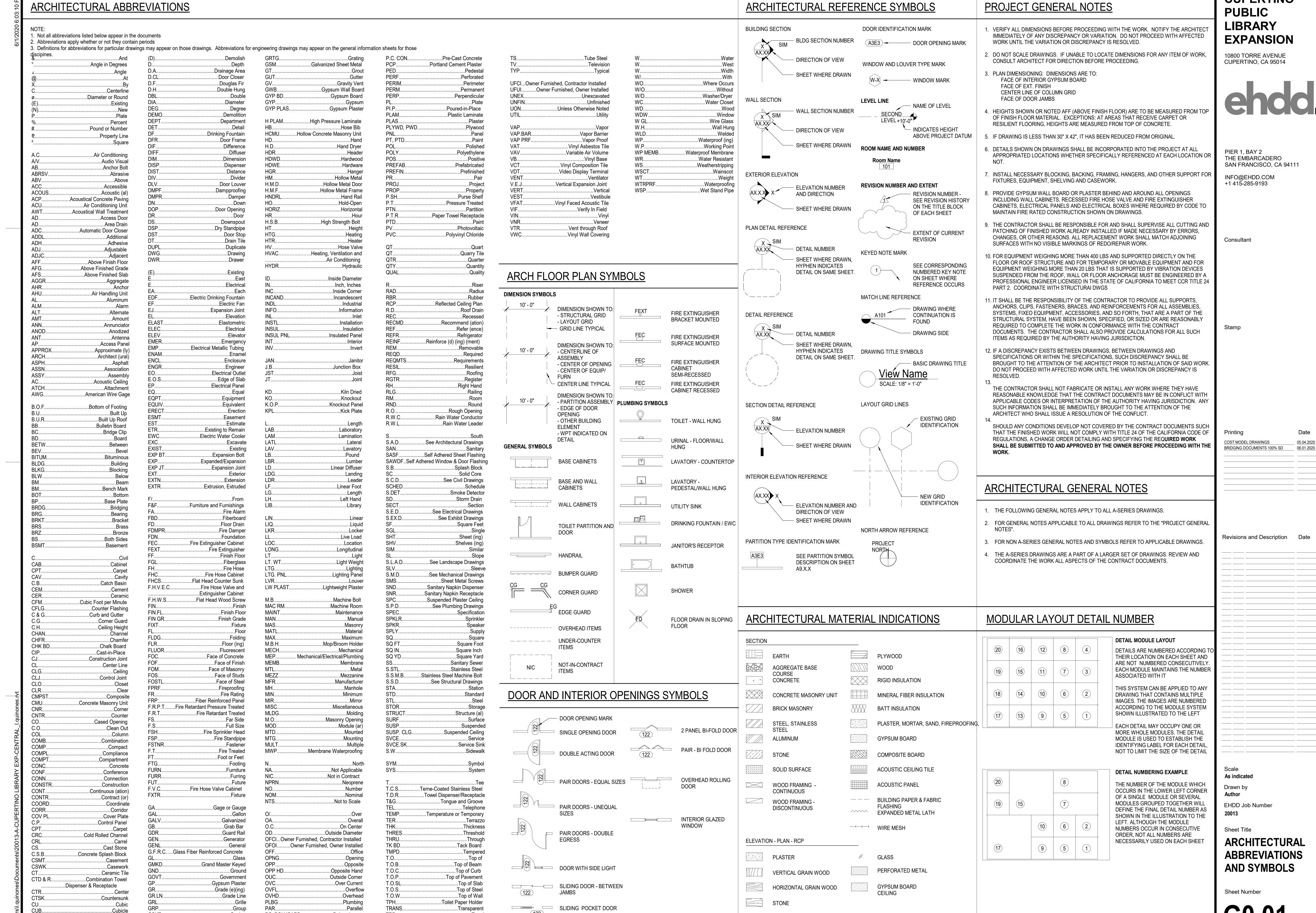
EHDD Job Number 20013

Sheet Title

COVER SHEET AND INDEX

Sheet Number

G0.00



TERRAZZO

PC, POLYCARB

.Polycarbonate

.Gasket

CYL L..

.Cylinder Lock

**CUPERTINO** 

				'										I		
CODE	E ANALSYIS															
BUILDING COD	E ANALYSIS				SECTION NO.	7C:	: INTERIOR WALI	LS								
1 APPLICAB	LE BUILDING CODE				(CBC, u.o.n.)		A. Fire Barriers	1	Extend from floo							707 707.5
	alifornia Building Code (CBC)  Part 1 – California Adminis	strative Code						3	<ul><li>Openings limited</li><li>Applies to shafts</li></ul>	, exit enclosur	es, occupan	cy separations	s, fire contro	ol room, fire	pump	707.6 707.3
	Part 1 – California Aufflins  Part 2 - California Building  Part 3 – Electrical Code				CBC CEC				oom, incidental use.  Dening protecti	on	Ту	oe IIA				Table 716.5
	Part 4 – Mechanical Code				CMC				<u>Wall Type</u> Shaft/Exit Enc	<del></del> '	-	ng Rating nan 4-stories)				
	Part 5 – Plumbing Code Part 6 – Energy Code		000		CPC				Door.shutter/w	vindow		1hr				
	Part 9 – Fire Code	r Code Now will be Title 8 of	CCR		CFC		B. Shaft Enclos 1. Duct systems		ed of approved mat	terials in accor	rdance with	the CMC that	penetrate r	on-fire-resis	stance-rated	707
	Part 10 –California Existinį Part 11 – California Green	Building Standards Code			CGBSC		floor assemblie	es shall be p	rotected by any of	the following	methods:					
	Part 12 – Referenced Stan	dards							. A shaft enclosure							
2 BUILDING DESCRIPTION Two story Library expansion for Program rooms; accessible bathrooms; pantry; storage						b. The duct connects not more than two stories, and the annular space around the penetratir duct is protected with an approved noncombustible material that resists the free passage of flame and the products of combustion.							-	717.6.3		
3 OCCUPAN	сү				CHAPTER 3			p	. The duct connect enetrating duct is assage of flame an	protected with	h an approv	ed noncombus	stible mater	ial that resis	ts the free	
	trons: Adults and Children				G		=	-	penings per the fol	_	6.1	19 19				
	Building Area Multipurpose program rooms	Occupancy Group A-3	Nonse	eparated occupancy	303.4			•	floor opening that th all of the items t		one of the a	pplications lis	ted in this s	ection shall	be	
	Pantry/Storage	Group B		eparated pancy/Accessory	304.1			а	. Does not connect	t more than 2	stories					
	Storage	S	Nonse	eparated	311.3			h	. Does not contain	a stairway or	ramp requir	ed by CBC 10				
4 GENERAL B	UILDING HEIGHTS AND AREA/ MIXED US	E AND OCCUPANCY	Joccup	ancy/Accessory	CHAPTER 5			c s	. Does not penetra eparate smoke con	te a horizonta npartments	l assembly t	hat separates			riers that	712.1.9
4A: BUILDING F									. Is not open to a c				<i>9</i> 4.	,		
· ·	e buildings on Civic Center campus For co height is 31'-0" to top of parapet	de purposes, assumed propei	rty lines are u	sed.	503.1.2 504.3			f g	. n/a . Is separated from		•		s serving ot	her floors by	у	
4B: BUILDING A				one three	502.1		3. Elevator sha				a :		<u>-</u>	,		
FLOOR LEVI Level 1 Level 2	EL EXPANSION A-3 GSF  2,816  2,816		TOTAL 27,150 27,150	GSF (NON SEPARATED) 29,966 29,966					hr rated for elevat	tors serving A-	·3 and B Occ	upancy (less tl	nan 4-storie	5)		713.4
TOTALS	5,632		4,300	59,980			C. Smoke Partit		e, no fire resistive r	ating is require	ed					710 710.3
	E AREA AND HEIGHT	,	, - <del>- •</del>	55,552					nes to limit the trai			_				710.4
	04.3 Allowable building heights above grad	de nlane			504.3			• .	ection is required e or comply with smo	•		_	opening pro	otection sha	ll be	3006.2 3006.3
		ered with area increase, Type	e IIA: 65 feet		304.3		E. Penetration	S								714
C. Table 50	Occupancy B Group , S Type 6.2: Allowable area factor in square feet						1. Through per	netration fi	re stop systems pro	otecting wall p	enetrations	shall have an	F rating equ	ial to the rat	ed wall	714.3.1.2
	Occupancy Group A-3, SM of Ocupancy Group B sprinkle ccupancy of Group A-3 and B.	without height increase: 46,5 red, 112,500 SF	00 SF		508.3 506.3			r or equal t	re stop systems pro o the rated assemb	_	horizontal a	ssemblies not	in a wall sh	all have an F	and a T	714.4.1.1.2
_	wable area determination: Mix-occupant $A_a = [A_t + (NSX I_f)] X S_a$	y, Nonseparated, multistory l (Equation 5-2)	building, with	most restrictive use of Group	p A-3 506.2.3		INTERIOR FINIS	· · · · · · · · · · · · · · · · · · ·								CHAPTER 8
G. Complies	Aa = [46,500 + (5632 X0)] X s 59,932<93,000 SF allowable					8	A. Wall and cei Classificat	iling finishe tion	s classified by tests <u>Flame Spre</u>		e with ASTM	E-84	<u>S</u>	moke Devel	<u>oped</u>	803.1.1
4D: FIRE ACCES	area S						C. Wall and Cei Group	_	Requirements nterior exit stairwa	ivs interior	Corridors an	inklered d enclosure fo				803
sprinklered	m distance from fire lane to any point on buildings with the approval of the Fire M		. Increased dis	stances allowed for	CFC 503.1.1		A-3		exit ramps and pass		acces	airways and ex s ramps B	kit Room	s and enclos C	ed spaces	
A. Incident	CY SEPARATIONS  al Uses N/A				509.1		-									
B. Special P	•				510.1											
5 FIRE RESIST	TIVE REQUIREMENTS FOR BUILDING ELEM	<b>MENTS</b>			CHAPTER 6				. Class C interior finish eet of applied surface a							Table 803.9
	CTION TYPE DESCRIPTION construction; exterior walls are of any no	ncombustible material permi	itted by this co	ode [2013 CBC].	602.2			Si	trips applied to a nonco	ombustible base a	and fireblocked	d as required by S	Section 803.11	1.		
5B: FIRE RESIST	TIVE REQUIREMENTS, CONSTRUCTION TY	PE IIA							. In buildings less than orinklered buildings sh					C interior finish	n for	
A. Primary B. Bearing	structural Frame: Walls:	1-hour			Table 601, g				Requirements for room							
	2. Exterior:	1-hour			Table 601			c b	eiling. Partitions that do oth sides shall be consi	o not comply witl idered one. In def	h this shall be of termining the a	considered enclos applicable require	sing spaces an ements for roc	d the rooms or oms and enclos	spaces on ed spaces, the	
		eparation distance (Table 602			Table 602			C	Class B materials shall orridors and exit access	s stairways and ra	amps.			es above the f	inished floor in	
		Rating Requirements for Ext Fire Separation Distance)	erior				·		eilings to be install	ed in accordar	nce with ASI	M C 635 or AS	STM C 636			808.1.1.1
	10 ≤ x < 30 feet	1 hour			Table 602			nish to be C	lass I or Class II in a		ıres, exit pas	sageways, cor	ridors and u	ınseparated	areas.	804 804.4.1
	x ≥ 30 feet	0 hour			Table 602			ian be in ac	cordance with NFP	n 2J3						22.5
D. Floor co	onstruction & secondary members:	1-hour	-		Table 601				ole floor finish and							804.4.2 804.4.3
	nstruction & secondary members:	1-hour			Table 601		G. Wood used in	n constructi	ials applied in area on that is required cess or other meth	to be fire reta	ardant must	be treated wi	th fire retar	dant chemic	als by a	2011 CTCFS 20.B
7 FIRE RESIST	TENCE RATED CONSTRUCTION				CHAPTER 7							_			·	
<b>7A: BUILDING</b> S	SEPARATIONS (Actual Fire Separation Dis >200'	tance) Parking Lot property line	e			9	FIRE PROTECTION SYSTEMS	ON SYSTEM	IS: AUTOMATIC SP	RINKLER SYST	TEMS, AND I	FIRE ALARM				CHAPTER 9
B. West C. North D. South	112'-0" >200' 106' -0 "	to east curb of Torre Ave to Cupertino City Hall to centerline of Parking						stem provio	led throughout the							506.2 903.2.1.3
	WALL OPENINGS  5.8: Maximum area of exterior wall open  Fire Separation Distance		n distance with	h unprotected openings in	Table 705.8			equired to b	ccordance with NI be monitored by ap		vising statio	n				903.3.1.1 901.6.1 907, 907.3
	15 to less than 20	75%					A. CBC 907.2.1	1 System i	nitiation in Group A							907.2.1.1
	20 to less than 30 30 or greater	No Limit No Limit					B. Activation of an emergency	f the fire ala voice/alarm	arm in Group A occ n communications s	upancies with					ı signal using	907.5.2.2.
							C.ERRS If requi	red by								CBC 918 CFC 510
	IBING FIXTURE		<u>IONS</u>													
CPC 2019 PLU	JMBING FIXTURE CALCULATIONS-CUPERTIN															
		FACT	ORS AND CALC	CULATIONS					FI.	XTURE COUNT	PER CPC TAE	BLE 422.1	SERVICE			
		OCCUPANT		TOTAL OCCUPANT OCCUPANT	GENDER LOAD	NUMBER OF						DRINKING FOUNTAINS (i	SINK OR LAUNDRY f TRAY			
		TOTAL SQ. FT. LOAD FACTOR:	NUMBER OF	LOAD FACTOR: LOAD (this		WOMEN (1/2	NUMBER OF					any req'd: one				

MEANS OF EGRESS				CHAPTER 10			
A. Occupant Load Facto	ors						
	Function of S Assembly without fixed se	<u> </u>	Occupant Load Factor 7 net		L. Exit Signs	Accessible means of egress are required in the same numbers as required for other means of egress	
	Assembly without fixed sea Accessory storage areas/Mecha		15 net 300 gross	Table 1004.1.2		of egress	1010.9
B. Travel distance –	Occupancy		Travel Distance		Q. Handrails and Guards	1. Shall be provided on both sides of stairs and ramps greater than 6 inches	1009.15, 1010.9
	Group A-3 Group B		250 feet 300 feet	Table 1017.2	Guarus	2. Intermediate handrails to be provided when necessary, so that all parts of egress capacity on stairs and ramps are within 30 inches of a handrail	1012.9
C. Corridors: Corridors	2. Dead ends may not exceed 20 fe	eet in Group A-3 occupancie	es	Table 1020.1 1020.4		3. Guards required on elevated surfaces with an adjacent drop more than 30 inches	1013.2
D. Minimum number of	Occupant Load  1 thru 49 (typical)  50 - 500		Number of Exits  1 2	1006.2		4. Guards required to be 42 inches high minimum	1013.2
	501 – 1,000		3			5. Guards shall have opening protection that will not allow a 4 inch diameter sphere to pass	1013.4
E. Minimum number of	Occupant Load (per story) per conditions 1 - 500		Number of Exits (per story)  1 2	Table 1006.3.1			
	501 – 1,000 Over 1,001		3 4		R. Exit Signs	1. Not required in rooms or areas requiring only one exit	1013.1.1
F. Vertical Exit	1. Required rating – 1 hour fire bar	rrier				2. Required at exit and exit access doors and other areas so that no place in a corridor is more than 100 feet from an exit sign	1013.1
Enclosures	3. Unenclosed stairs and ramps - E	_	airway that atmospherically	1023.2		3. Exit signs may be either internally or externally illuminated	1013.3
	communicates between only two s			1019.3.1		4. Illumination required to be on emergency power with 90 minute duration	1013.6.3
G. Exterior Exit Stairs and Ramps	1. Shall be adjoined by yards, court	ts, or public ways				5. Emergency evacuation signage required.	Title 19
	<ul><li>2. Must be open on at least one sid</li><li>3. Fire separation: 1-hr rated within</li></ul>		hr rated.	1027.4 1027.3	S. Exit Access	1. Egress shall not pass through adjoining rooms except where such rooms are accessory, not high-hazard, and provide a discernable path to an exit	1016.2
H. Exit Discharge	1. Exterior stairways and ramps shother buildings on the same lot	nall be located 10 feet from	adjacent lot lines and from	1023.7 1027.5		2. Common path of travel limited to 75 feet in Group A when the building is equipped with sprinklers	Table 1006.2.1
I.1 Assembly Exit	Assembly Other Exit: Not less than of not less than 20 feet in capacity t			1029.3		2 Common math of accounts	<b></b> - :
						<ul><li>3. Common path of travel in assembly seating area limited to 30 feet</li><li>3. When two or more exits are required, they shall be separated by one third the diagonal</li></ul>	1029.8 1007.1.1.2
424	According		-1 age 1	4000 D :		dimension of the space in fully sprinklered buildings.	
Loads	Assembly occupancies with an occu least one required means of egress access the other required exit. At least	directly to an exit, or throu	gh a lobby that is not used to	1029.3.1	13 ROOF ASSEMBLY A  A. Roofing classific		<b>CHAPTER 15</b> Table 1505.1
	space of not less than 20 feet in wid				27 EMERGENCY POW  A. Where required		CHAPTER 27
J. Accessible Egress	Accessible spaces shall be provided more than one means of egress are space, each accessible portion of th least the same number as required requirements of this chapter, mean buildings for persons with disabilitie or 11B as applicable.	e required by Section 1006 one space shall be served by a by Section 1015.1 or 1021.3 or sof egress, which provide a	r 1022 from any accessible accessible means of egress in at a l. In addition to the access to, or egress from,	1009.1		<ul><li>2. Exit signs</li><li>3. Means of egress illumination</li></ul>	2702.2.3 2702.2.4
	The common path of egress trave point where an occupant has a choice.			1028.8			
	2. Where more than one exit, or ac means of egress shall be configured shall not reduce the available capacity.	d such that the loss of any o	ne exit, or access to one exit,	1005.5			
	3. Capacity of stairways is calculate	ed for floors individually, no	t cumulatively.	1005.3.1			
	4. Where occupants egress from or design occupant load shall be the cointervening spaces. Design of egress occupant loads of all rooms, areas of	combined occupant load of its path capacity shall be bas	nterconnected accessory or ed on the cumulative portion of	1004.1.1.1			
	5. Egress width per occupant serve	ed, in sprinklered buildings					
	<u>Use Area</u> <u>Alle</u>	lowance for buildings with sprinkler					
	Stairways	0.30 inches		1005.3.1			
	Other egress component (Assembly)	0.20 inches		1005.3.2			
	<u>0</u>	Occupant Width Required					
		0.30 inches		1005.3.1			
		0.20 inches		1005.3.2			
K. Lighting	Means of egress illumination to  until displayed at outside.	be 1 foot candle minimum	(11 lux) at the walking surface	1008.2.1			
	until discharge at exterior  3. Emergency power provided for	90 minutes minimum		1008.3			
			a) Illumination under emergency power must be 1 foot candle average, with a minimum of 0.1 foot candles at any point with 1/40 max ratio. These may decline 40 percent at the end of the emergency duration	1006.3.1			

		FACTORS AND CALCULATIONS								FIXTURE COUNT PER CPC TABLE 422.1								
																SERVICE		
																SINK OR		
						TOTAL									DRINKING	LAUNDRY		
			OCCUPANT		OCCUPANT	OCCUPANT	GENDER LOAD	NUMBER OF							FOUNTAINS (if	TRAY		
		TOTAL SQ. FT.	LOAD FACTOR:	NUMBER OF	LOAD FACTOR	LOAD (this	FACTOR (half	<b>WOMEN</b> (1/2	NUMBER OF						any req'd: one	(**only 1		
		(net, this	Occ's/sq. ft.	FIXED SEATS,	Occ's/seat	occupancy,	total occ. is	total occ.	MEN (1/2 total	WOMEN'S	MEN'S				high and one	total per	<b>BATHTUBS</b>	
FLOOR		occupancy,	(see CPC Table	GROUP A	(see CPC Table	this floor,	women, half is	Load, not	occ. load; not	WATER	WATER		WOMEN'S	MEN'S	low,	building	OR	
LEVEL*	TYPE OF OCCUPANCY (see CPC Table 422.1)	this floor)	A)	OCUPANCIES	A)	rounded up)	men)	rounded up)	rounded up)	CLOSETS	CLOSETS	URINALS	LAVS	LAVS	minimum.)	required)	SHOWERS	COMMENTS
	Group A-3: Conference rooms, museums,																	
	libraries, lecture halls, lounges, gyms																	
	(without spectator seating); places of																	
1	worship	1622	1/30	N/A	N/A	55												
	Group A-3 fixed seating: Conference																	Table 422.1 Women's WC's: Big increases
	rooms, museums, libraries, lecture halls,																	in fixt count, at 101 and 201 women
	lounges, places of worship	N/A	N/A		0.5	0												occupants
	TOTAL GROUP A-3 OCCUPANCY					55	0.5	27.5	27.5	1.10	0.78	0.14	0.28	0.14	0.22	**	N/A	
TOTAL																		

## CPC 2019 PLUMBING FIXTURE CALCULATIONS-CUPERTINO LIBRARY EXPANSION

			FACT	ORS AND CALCU	JLATIONS	_			_			FIX	TURE COUNT	PER CPC TA	BLE 422.1			
FLOOR LEVEL*	TYPE OF OCCUPANCY (see CPC Table 422.1)	(net, this occupancy,	OCCUPANT LOAD FACTOR: Occ's/sq. ft. (see CPC Table A)	FIXED SEATS,	OCCUPANT LOAD FACTOR: Occ's/seat (see CPC Table	occupancy, this floor,	women, half is	WOMEN (1/2 total occ.	·	WATER	WATER	URINALS	WOMEN'S LAVS	MEN'S LAVS	DRINKING FOUNTAINS (if any req'd: one high and one low,	(**only 1 total per building	BATHTUBS OR SHOWERS	COMMENTS
	Group A-3: Conference rooms, museums,	,	,		,	.,	,		.,		l		1	I	,			
	libraries, lecture halls, lounges, gyms																	
	(without spectator seating); places of																	
2	worship	1512	1/30	N/A	N/A	51												
	Group A-3 fixed seating: Conference																	Table 422.1 Women's WC's: Big increases
	rooms, museums, libraries, lecture halls,																	in fixt count, at 101 and 201 women
	lounges, places of worship	N/A	N/A		0.5	0												occupants
	TOTAL GROUP A-3 OCCUPANCY					51	0.5	25.5	25.5	1.02	0.76	6 0.13	0.26	0.13	0.20	**	N/A	
TOTAL																		
LEVEL										2		1 1	Լ 1		1 2	1	. 0	

**CUPERTINO PUBLIC LIBRARY EXPANSION** 

10800 TORRE AVENUE CUPERTINO, CA 95014

PIER 1, BAY 2 THE EMBARCADERO SAN FRANCISCO, CA 94111 INFO@EHDD.COM +1 415-285-9193

Consultant

COST MODEL DRAWINGS 05.04.2020 BRIDGING DOCUMENTS 100% SD 06.01.2020 \_\_\_\_\_ \_\_\_\_\_

Revisions and Description Date


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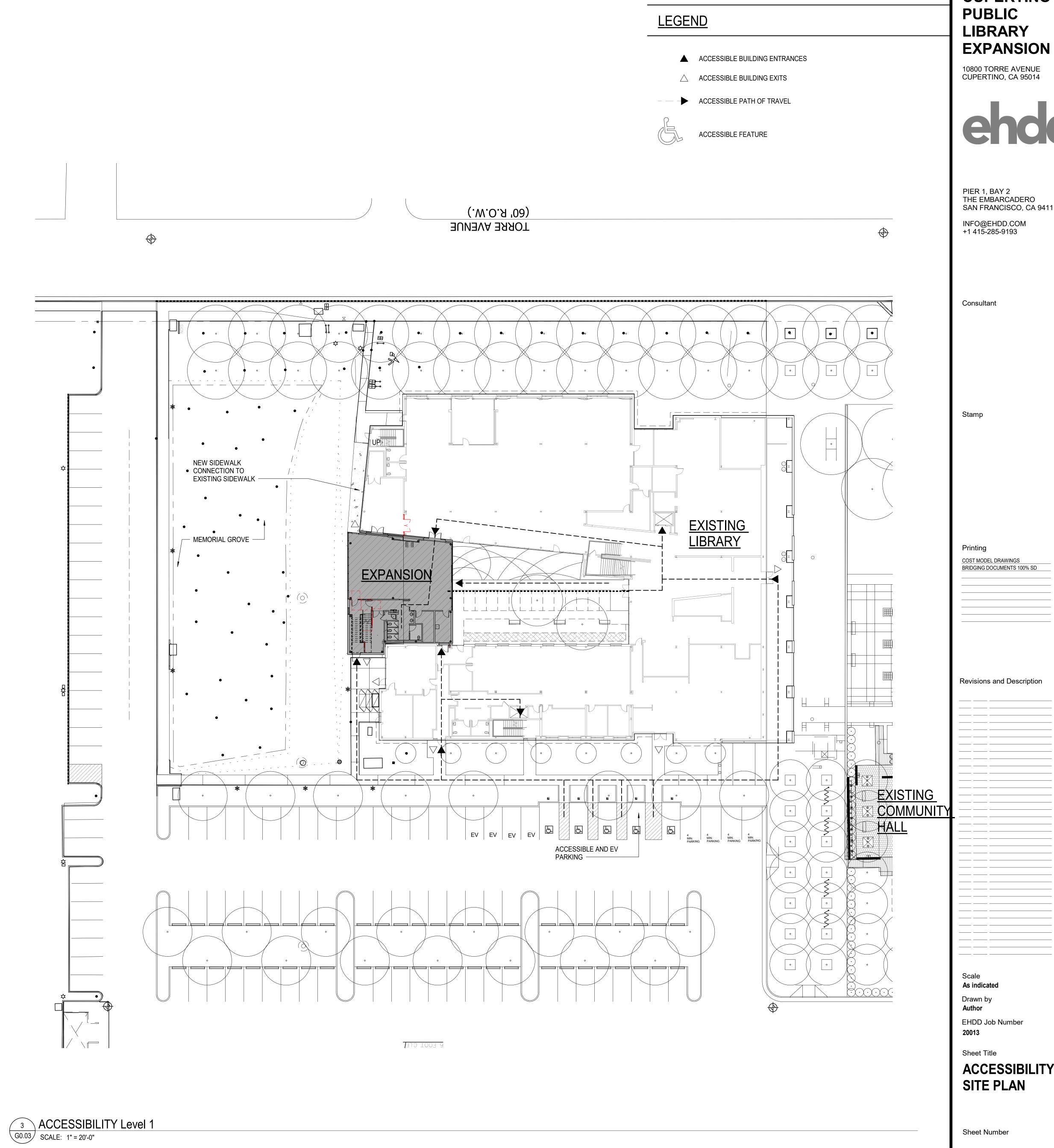
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Drawn by **Author** EHDD Job Number

20013 Sheet Title

**CODE ANALYSIS** 





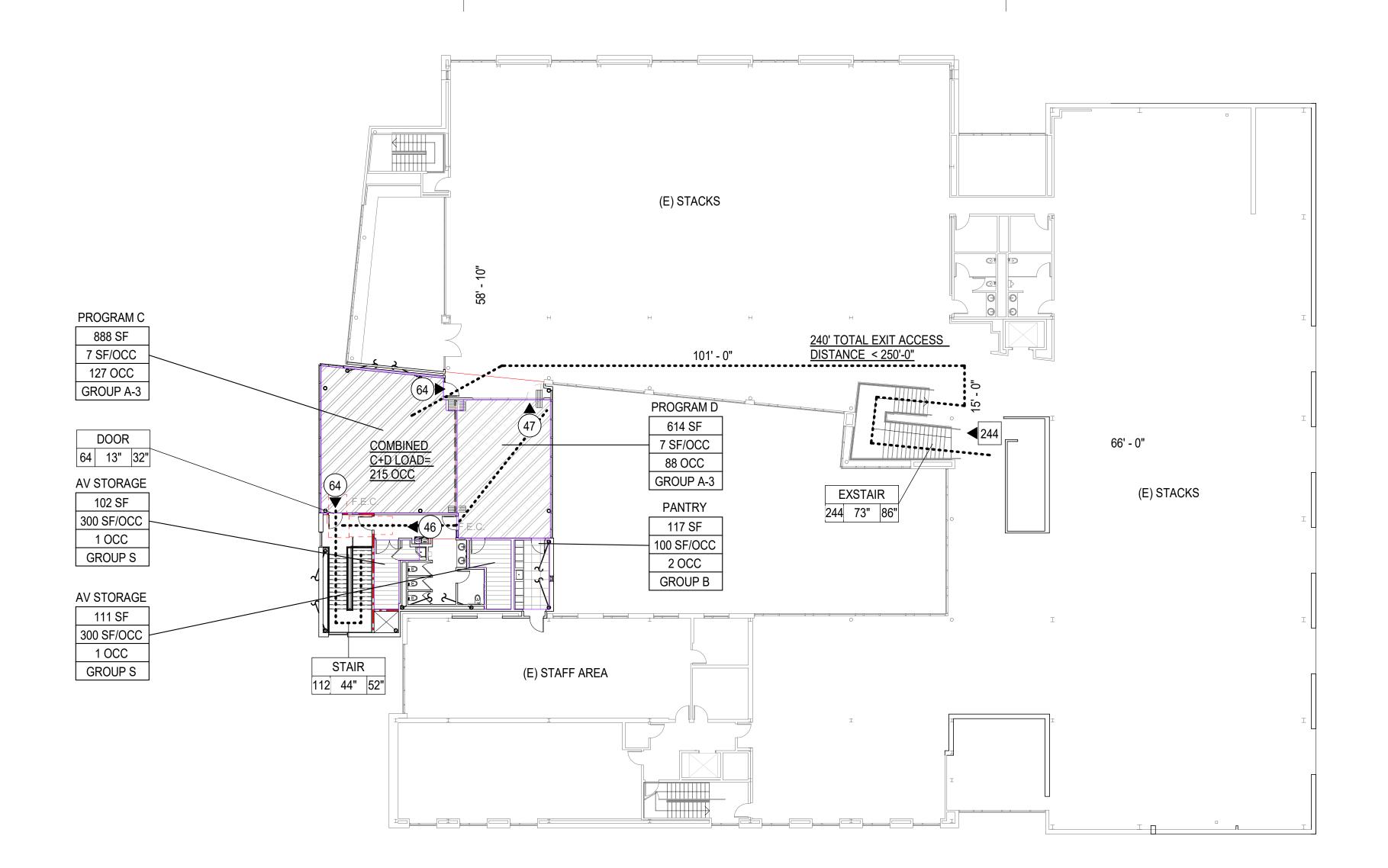
**CUPERTINO** 

PIER 1, BAY 2 THE EMBARCADERO SAN FRANCISCO, CA 94111

BRIDGING DOCUMENTS 100% SD 06.01.2020

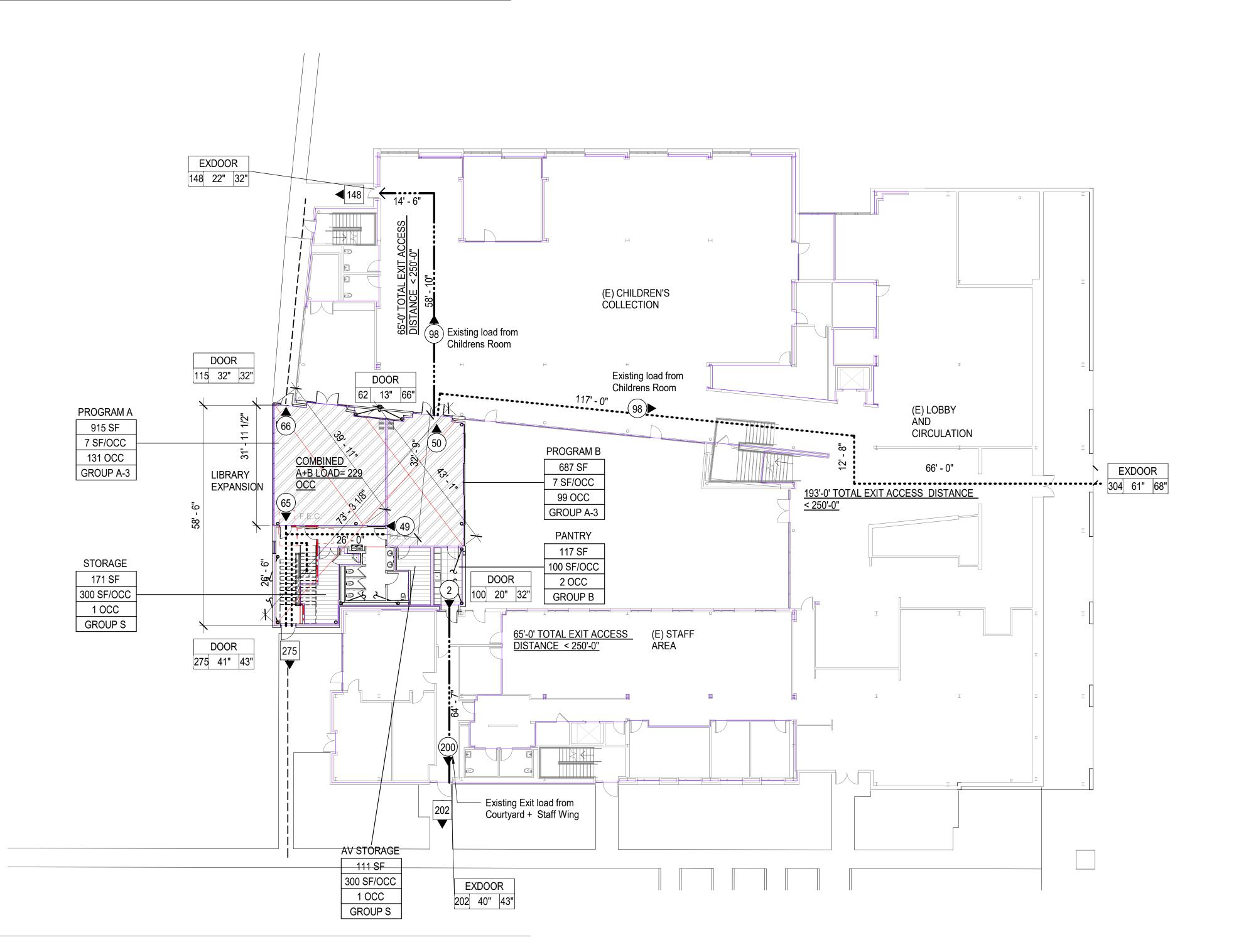
Revisions and Description Date

**ACCESSIBILITY** 



FIRE LIFE SAFETY PLAN - LEVEL 2

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



<sup>2</sup> FIRE LIFE SAFETLY PLAN - LEVEL 1 G0.04 SCALE: 1/16" = 1'-0"

FLOOR AREA AND OCCUPANCY LOAD

FLOOR AREA EXCLUDING SHAFTS AND EXITS: 3972 SF

OCCUPANT LOAD: 4 OCCUPANTS - BUSINESS AREAS

450 OCCUPANTS - ACCESSORY UNCONCENTRATED ASSEMBLY WITHOUT FIXED SEATS 4 OCCUPANTS - ACCESSORY STORAGE, MECHANICAL EQUIPMENT ROOMS

458 TOTAL OCCUPANTS

NOTES: CBC 2019, SECTION 303.1 ASSEMBLY AREAS EXCEPTION 2:

A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANCY LOAD OF LESS THAN 50 PERSONS AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OT THAT OCCUPANCY.

**PUBLIC LIBRARY EXPANSION** 10800 TORRE AVENUE

CUPERTINO, CA 95014

**CUPERTINO** 

THE EMBARCADERO SAN FRANCISCO, CA 94111 INFO@EHDD.COM +1 415-285-9193

PIER 1, BAY 2

Consultant

Stamp

LIFE SAFETY AND EXITING LEGEND

DOOR OOOR NUMBER XX XX XX PROVIDED WIDTH REQUIRED WIDTH (0.2 FACTOR) - DOOR LOAD STAIR STAIR NUMBER

XX XX XX PROVIDED WIDTH REQUIRED WIDTH (0.3 FACTOR) - STAIR LOAD

150 SF → AREA XX SF/OCC - FLOOR AREA PER OCCUPANT XX OCC — OCCUPANT COUNT

AREA NAME

ACCUMULATED LOAD AND TRAVEL DIRECTION OCCUPANT LOAD WITHIN INDIVIDUAL SPACE

AND TRAVEL DISTANCE START POINT OF TRAVEL

COMMON PATH OF TRAVEL EXIT PATH OF TRAVEL

2 HOUR FIRE BARRIER (HORIZONTAL EXIT)

1 HOUR FIRE BARRIER

EXIT SIGN, SINGLE-SIDED EXIT SIGN, DOUBLE-SIDED

STORAGE ROOMS

FIRE EXTINGUISHER CABINET

**FUNCTION OF SPACE** PATTERN OCCUPANT LOAD FACTOR 15 NET ASSEMBLY, UNCONCENTRATED **BUSINESS AREAS** 100 GROSS 200 GROSS KITCHENS, COMMERCIAL 50 GROSS LOCKER ROOMS MECHANICAL EQUIPMENT ROOM

300 GROSS

Revisions and Description Date

COST MODEL DRAWINGS

BRIDGING DOCUMENTS 100% SD

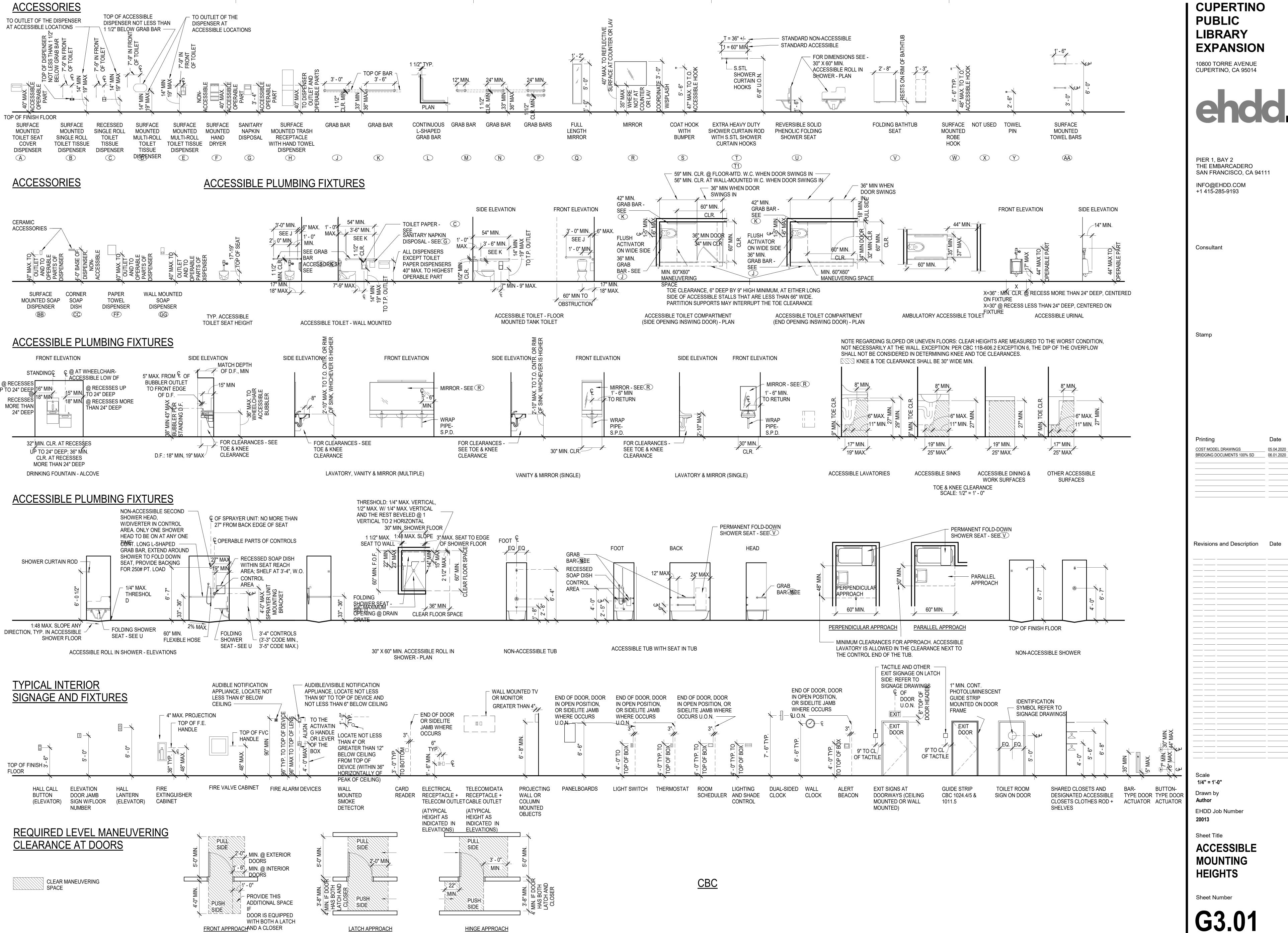
05.04.2020

06.01.2020

Drawn by

**EHDD Job Number** 20013 Sheet Title

LIFE SAFETY PLAN **AND CODE REVIEW** 





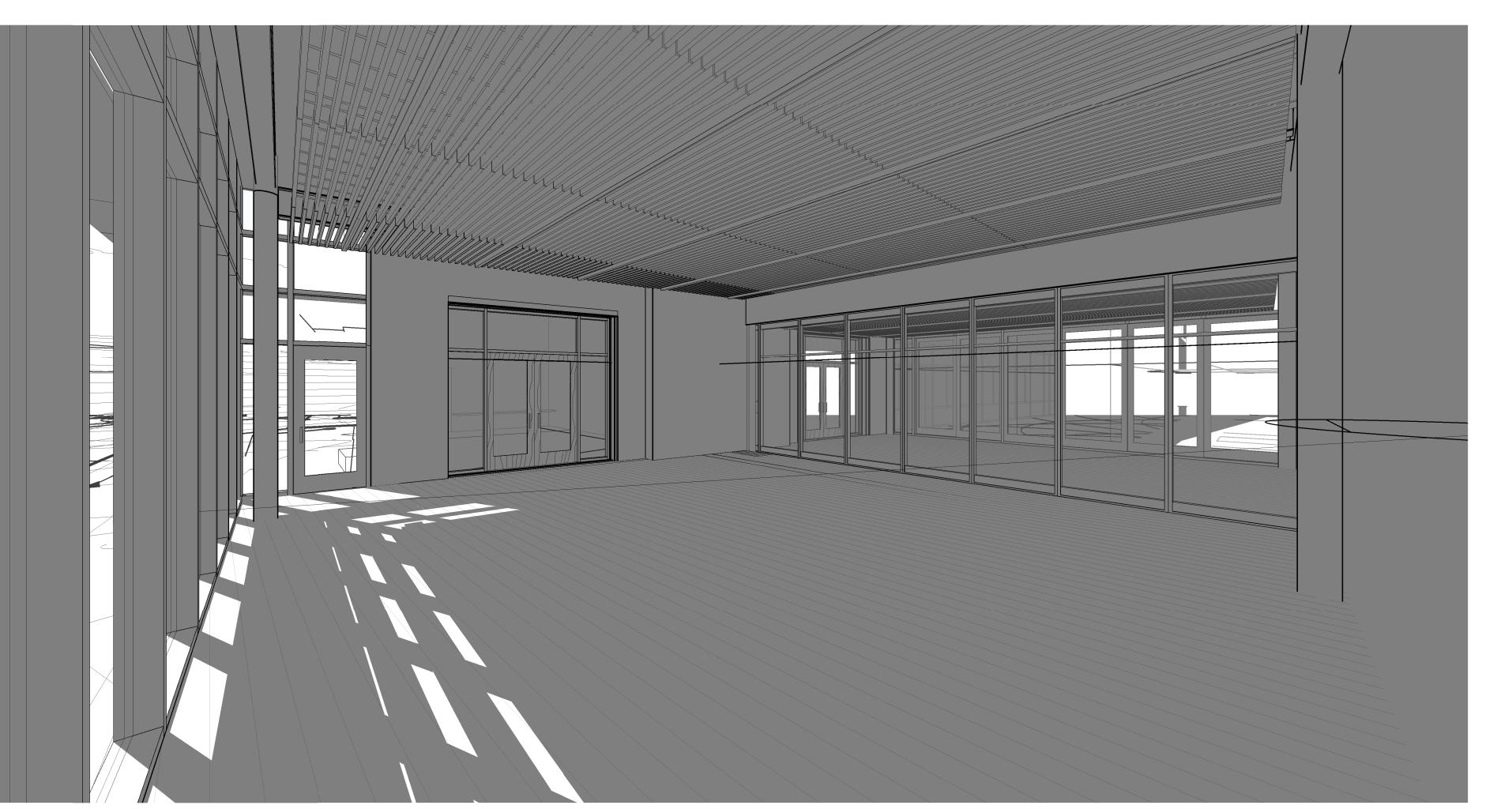
SOUTHEAST CORNER



SOUTHWEST CORNER



<u>COURTYARD</u>



LEVEL 1 - SE CORNER

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Printing Date

COST MODEL DRAWINGS 05.04.2020
BRIDGING DOCUMENTS 100% SD 06.01.2020

Revisions and Description Date

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Drawn by

Drawn by
Author

EHDD Job Number

20013

Sheet Title
PERSPECTIVE
VIEWS

Sheet Number

G4.01

## **ABBREVIATIONS** ASPHALT CONCRETEAREA DRAIN - FG @ BOTTOM OF WAL - BEGIN VERTICAL CURVE - BACK OF WALK - CURB AND GUTTER - CATCH BASIN - CURB INLET - CAST IRON PIPE DOMESTIC DOMESTIC WATER - END OF CURVE - EDGE OF PAVEMENT - END OF RETURN - END VERTICAL CURVE - FACE OF CURB - FIRE DEPARTMENT CONNECTION - FINISHED GRADE - FIRE HYDRANT - FLOW LINE - FOUNDATION - GROUND ELEVATION - GRADE BREAK - GATE VALVE - ACCESSIBLE RAMP - HIGH POINT - INVERT ELEVATION JOINT POLEJOINT TRENCH - LIP OF GUTTER - MECHANICAL/ELECTRICAL/PLUMBING - MANHOLE - NOT IN CONTRACT – *NUMBER* - NOT TO SCALE - PAVEMENT ELEVATION PORTLAND CEMENT CONCRETE / - POINT OF REVERSE CURVATURE - POLYVINYL CHLORIDE PIPE - RELATIVE COMPACTION - REINFORCED CONCRETE PIPE - REDUCED PRESSURE PRINCIPLE ASSEMBLY RIGHT OF WAY - SEE ARCHITECTURAL DRAWINGS - SEE ELECTRICAL DRAWINGS SEE LANDSCAPE DRAWINGS - SEE MECHANICAL DRAWINGS – SIGNAL MANHOLE SEE PLUMBING DRAWINGS - STANDARD

AMERICANS WITH DISABILITIES ACT

AGGREGATE SUBBASE BEGINNING OF CURVE BACK FLOW PREVENTOR

BUILDING CORNER

BOTTOM OF DOCK

CONCRETE OR CIVIL

CENTER LINE OR CLASS

DROP INLET
DUCTILE IRON PIPE

FINISHED SURFACE

LANDSCAPE ARCHITECT

MIDPOINT OF VERTICAL CURVE

POINT OF CONTINUOUS CURVATURE

POST INDICATOR VALVE

POWER MANHOLE

SLOPE OR SOUTH

SEDIMENT BASIN

STORM DRAIN

TRENCH DRAIN

- FG @ TOP OF WALL - TOP OF SLAB – TYPICAL

UNLESS OTHERWISE NOTED

- TOP OF DOCK

 UNDERGROUND VERTICAL CURVE VERIFY IN FIELD

 WATER METER - WATER VALVE

- WELDED WIRE FABRIC

MAXIMUM

MINIMUM

MONUMENT

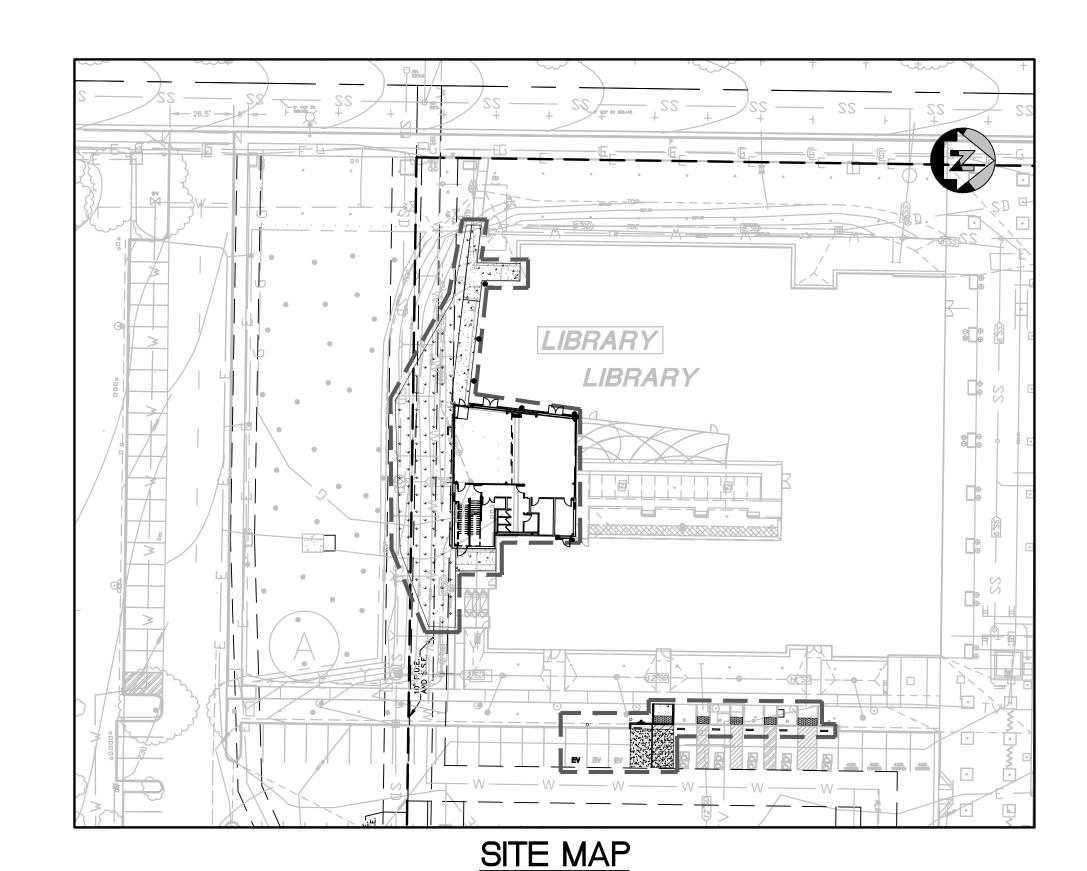
CORRUGATED METAL PIPE

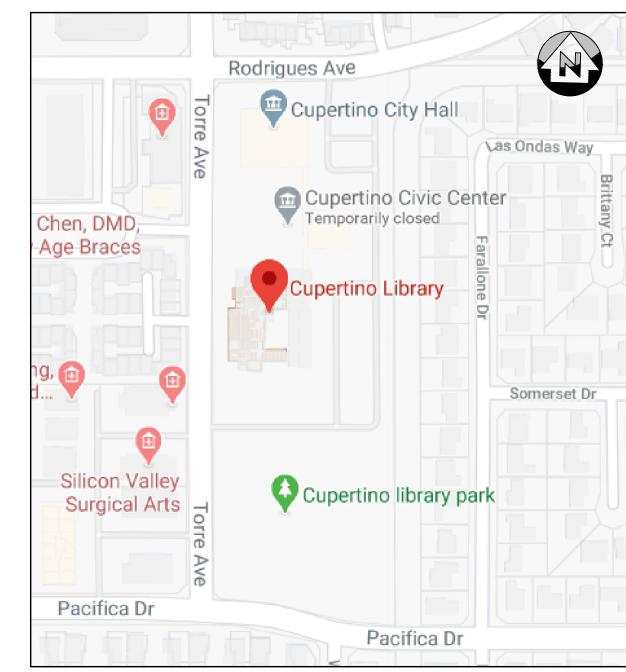
CONCRETE
CONSTRUCTION OR CONSTRUCT

CUBIC YARD DOUBLE CHECK DETECTOR ASSEMBLY

# CUPERTINO LIBRARY

EXPANSION PROJECT 10800 TORRE AVE, CUPERTINO, CA 95014





VICINITY MAP

## PROJECT DESCRIPTION

THE NEW ADDITION IS A 2-STORY STRUCTURE OF APPROXIMATELY 4,416 SF THAT WILL BE ADDED TO THE EXISTING LIBRARY. DEVELOPMENT WILL INCLUDE DEMOLITION OF A PORTION OF THE EXISTING LIBRARY, UTILITY CONNECTIONS TO THE ADDITION, AND CREATING AN ACCESSIBLE ELECTRIC

## CIVIL SHEET INDEX

- COVER SHEET C-1.1C-2.0
- TOPOGRAPHIC SURVEY DEMOLITION PLAN SITE ACCESS & PARKING PLAN
- GRADING & DRAINAGE PLAN UTILITY PLAN
- CONSTRUCTION DETAILS
- EROSION CONTROL PLAN EROSION CONTROL DETAILS
- FIRE ACCESS PLAN

**UNAUTHORIZED CHANGES AND USES** CAUTION: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE

CONTRACTOR TO PROVIDE CONSTRUCTION STAKING. PLEASE CONTACT SANDIS / BRUCE CHU AT (650) 400-3023 OR bchu@sandis.net FOR A CONSTRUCTION STAKING ESTIMATE FOR THIS PROJECT.

CONSTRUCTION STAKING

**CUPERTINO LIBRARY EXPANSION** 

10800 TORRE AVENUE CUPERTINO, CA 95014

PIER 1, BAY 2 THE EMBARCADERO SAN FRANCISCO, CA 94111

INFO@EHDD.COM +1 415-285-9193

Consultant SANDIS SURVEYORS PLANNERS F. 408.636.0999 www.sandis.net

Stamp

05.04.2020

Revisions and Description Date

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**NO SCALE** Drawn by EHDD Job Number

Sheet Title **COVER SHEET** 

- 3. CONTRACTOR SHALL POST ON THE SITE. EMERGENCY TELEPHONE NUMBERS FOR PUBLIC WORKS, AMBULANCE, POLICE, AND FIRE DEPARTMENTS.
- 4. CONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO THE UTILITY UNLESS AN EXCAVATION PERMIT SPECIFIES OTHERWISE.
- 5. THE CONTRACTOR SHALL HIRE A STREET CLEANING CONTRACTOR TO CLEAN UP DIRT AND DEBRIS FROM CITY STREETS THAT ARE ATTRIBUTABLE TO THE DEVELOPMENT'S CONSTRUCTION ACTIVITIES.
- 6. ALL GRADING SHALL BE PERFORMED IN SUCH A MANNER AS TO COMPLY WITH THE STANDARDS ESTABLISHED BY THE AIR QUALITY MAINTENANCE DISTRICT FOR AIRBORNE PARTICULATES (DUST).
- 7. ALL GRADING SHALL CONFORM TO APPROVED SPECIFICATIONS PRESENTED HEREON OR ATTACHED HERETO. ALL GRADING WORK SHALL BE OBSERVED AND APPROVED BY THE SOILS ENGINEER. THE GEOTECHNICAL ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS BEFORE BEGINNING ANY GRADING. UNOBSERVED AND UNAPPROVED GRADING WORK SHALL BE REMOVED AND REDONE AT THE CONTRACTORS EXPENSE.
- 8. ALL MATERIALS, REQUIRED FOR THE COMPLETE EXECUTION OF THE PROJECT, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- 9. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY DURING THE
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY EXISTING IMPROVEMENTS OF UNDERGROUND FACILITIES DAMAGED DURING THE CONSTRUCTION
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL ENCROACHMENT, EXCAVATION, CONCRETE, ELECTRICAL, PLUMBING, ETC. PERMITS NECESSARY PRIOR TO
- BEGINNING CONSTRUCTION FOR ANY WORK. 12. THE CONTRACTOR SHALL HAVE A SUPERINTENDENT OR REPRESENTATIVE ON SITE AT
- ALL TIMES DURING CONSTRUCTION. 13. STORAGE OF CONSTRUCTION MATERIAL AND EQUIPMENT ON CITY STREETS WILL NOT
- 14. CONSTRUCTION EQUIPMENT SHALL BE PROPERLY MUFFLED. UNNECESSARY IDLING OF
- GRADING CONSTRUCTION EQUIPMENT IS PROHIBITED. 15. CONSTRUCTION EQUIPMENT, TOOLS, ETC. SHALL NOT BE CLEANED OR RINSED INTO A
- STREET. GUTTER OR STORM DRAIN. 16. A CONTAINED AND COVERED AREA ON—SITE SHALL BE USED FOR STORAGE OF CEMENT BAGS. PAINTS. FLAMMABLE. OILS. FERTILIZERS. PESTICIDES. OR ANY OTHER MATERIALS THAT HAVE POTENTIAL FOR BEING DISCHARGED TO THE STORM DRAIN SYSTEM BY WIND OR IN THE EVENT OF A MATERIAL SPILL.
- 17. ALL CONSTRUCTION DEBRIS SHALL BE GATHERED ON A REGULAR BASIS AND PLACED IN A DUMPSTER WHICH IS EMPTIED OR REMOVED WEEKLY. WHEN FEASIBLE, TARPS SHALL BE USED ON THE GROUND TO COLLECT FALLEN DEBRIS OR SPLATTERS THAT
- 18. ANY TEMPORARY ON-SITE CONSTRUCTION PILES SHALL BE SECURELY COVERED WITH A TARP OR OTHER DEVICE TO CONTAIN DEBRIS.
- 19. CONCRETE TRUCKS AND CONCRETE FINISHING OPERATIONS SHALL NOT DISCHARGE WASH WATER INTO THE STREET GUTTERS OR DRAINS.

## DISCREPANCIES

IF THERE ARE ANY DISCREPANCIES BETWEEN DIMENSIONS IN DRAWINGS AND EXISTING CONDITIONS WHICH WILL AFFECT THE WORK, THE CONTRACTOR SHALL BRING SUCH DISCREPANCIES TO THE ATTENTION OF THE ENGINEER FOR ADJUSTMENT BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF ALL WORK AND FOR THE COORDINATION OF ALL TRADES. SUBCONTRACTORS, AND PERSONS ENGAGED UPON THIS CONTRACT.

## UTILITY/POTHOLE NOTE

THE TYPES, LOCATIONS, SIZES AND /OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND FACILITIES AND UTILITIES BY POTHOLING PRIOR TO COMMENCING CONSTRUCTION.

## DIMENSIONS

ALL DIMENSIONS ON THE PLANS ARE IN FEET OR DECIMALS THEREOF UNLESS SPECIFICALLY CALLED OUT AS FEET AND INCHES.

## **FLOODZONE**

THIS PROJECT IS IN FLOOD ZONE X: AREAS OUTSIDE OF 0.2% ANNUAL CHANCE FLOOD.

INFORMATION OBTAINED FROM THE FLOOD INSURANCE RATE MAP (FIRM) NO. 06085C0209H DATED MAY 18, 2009 PRODUCED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA).

## FIRE DESIGN NOTE:

THE CONTRACTOR SHALL DESIGN, PREPARE SHOP DRAWINGS FOR, OBTAIN ALL REQUIRED APPROVALS, AND CONSTRUCT THE FIRE SYSTEM FOR THE PROPOSED PROJECT. CONTRACTOR SHALL HAVE SHOP DRAWINGS STAMPED BY A FIRE PROTECTION ENGINEER AS REQUIRED BY THE LOCAL AUTHORITY.

## UNDERGROUND WORK CAUTION

CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT FOR LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. FOR NORTHERN CALIFORNIA DIAL 811 OR (800) 227-2600. FOR OTHER AREAS CALL (800) 642-2444. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY WORK ON THIS SITE.

## **DEMOLITION NOTES**

- 1. CONTRACTOR IS TO COMPLY WITH ALL GENERAL AND STATE REQUIREMENTS INVOLVING THE REMOVAL AND DISPOSAL OF HAZARDOUS MATERIAL(S).
- 2. CONTRACTOR'S BID IS TO INCLUDE ALL VISIBLE SURFACE AND ALL SUBSURFACE FEATURES IDENTIFIED TO BE REMOVED OR ABANDONED IN THESE DOCUMENTS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION, AND DISPOSAL OF SAID MATERIALS AS REQUIRED BY PRIVATE, LOCAL AND STATE JURISDICTIONS. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH THE DEMOLITION WORK.
- 5. BACKFILL ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
- 6. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
- 7. PRIOR TO BEGINNING DEMOLITION WORK ACTIVITIES, CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES OUTLINED IN THE EROSION CONTROL PLAN & DETAILS AND THE PROJECT SWPPP IF APPLICABLE.
- 8. THE CONTRACTOR SHALL MAINTAIN ALL SAFETY DEVICES, AND SHALL BE RESPONSIBLE FOR CONFORMANCE TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS LAWS AND REGULATIONS.
- 9. THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING IMPROVEMENTS FACILITIES AND STRUCTURES WHICH ARE TO REMAIN. ANY ITEMS DAMAGED BY THE CONTRACTOR OR THEIR AGENTS OR ANY ITEMS REMOVED FOR HIS USE SHALL BE REPLACED IN EQUAL OR BETTER CONDITION AS APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE.
- 10. COORDINATE WITH ELECTRICAL. MECHANICAL. LANDSCAPING AND ARCHITECTURAL DRAWINGS FOR UTILITY SHUT-DOWN/DISCONNECT LOCATIONS. CONTRACTOR IS TO SHUT OFF ALL UTILITIES AS NECESSARY PRIOR TO DEMOLITION. CONTRACTOR IS TO COORDINATE SERVICE INTERRUPTIONS WITH THE UTILITY OWNER AND ANY AFFECTED PROPERTIES OR BUILDINGS. SEE ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION SCOPE OF WORK.
- 11. THIS PLAN IS NOT INTENDED TO BE A COMPLETE CATALOGUE OF ALL EXISTING STRUCTURES AND UTILITIES. THIS PLAN INTENDS TO DISCLOSE GENERAL INFORMATION KNOWN BY THE ENGINEER AND TO SHOW THE LIMITS OF THE AREA WHERE WORK WILL BE PERFORMED. THIS PLAN SHOWS THE EXISTING FEATURES TAKEN FROM A FIELD SURVEY, FIELD INVESTIGATIONS AND AVAILABLE INFORMATION. THIS PLAN MAY OR MAY NOT ACCURATELY REFLECT THE TYPE OR EXTENT OF THE ITEMS TO BE ENCOUNTERED AS THEY ACTUALLY EXIST. WHERE EXISTING FEATURES ARE NOT SHOWN. IT IS NOT IMPLIED THAT THEY ARE NOT TO BE DEMOLISHED OR RELOCATED. THE CONTRACTOR SHALL PERFORM A THOROUGH FIELD INVESTIGATION AND REVIEW OF THE SITE WITHIN THE LIMIT OF WORK SHOWN IN THIS PLAN SET TO DETERMINE THE TYPE, QUANTITY AND EXTENT OF ANY AND ALL ITEMS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE EXTENT OF EXISTING STRUCTURES AND UTILITIES AND QUANTITY OF WORK INVOLVED IN REMOVING THESE ITEMS FROM
- 12. CONTRACTOR TO DEMOLISH AND REMOVE ALL IRRIGATION IN LANDSCAPE AREAS WITHIN THE LIMIT OF WORK. IF ANY IRRIGATION LINES OR MAINS ARE IN THE LIMIT OF WORK OR ARE DAMAGED THAT SERVE LANDSCAPE TO REMAIN, CONTRACTOR TO RECONNECT OR RELOCATE AT NO ADDITIONAL COST TO OWNER.
- 13. PROTECT ALL EXISTING UTILITIES IN PLACE UNLESS OTHERWISE NOTED. REPLACE ANY DAMAGED UTILITY TO REMAIN TO KEEP OPERABLE DURING CONSTRUCTION.
- 14. ALL UTILITY SHUT DOWNS ARE TO BE AVOIDED. IF SHUT DOWNS ARE NECESSARY. CONTRACTOR TO COORDINATE SHUT DOWN WITH UTILITY OWNER WITH 48 HOUR MINIMUM NOTICE.
- 15. ALL EXISTING STORM DRAIN. SANITARY SEWER. AND WATER MAINS THAT SERVE EXISTING BUILDINGS MUST REMAIN OPERABLE DURING CONSTRUCTION. CONTRACTOR TO SET UP TEMPORARY SERVICE OR PUMP AS NECESSARY TO ENSURE UNINTERRUPTED SERVICE.

## RECORD DRAWING NOTE

THE CONTRACTOR SHALL KEEP UP-TO-DATE AND ACCURATE A COMPLETE RECORD SET OF PRINTS OF THE CONTRACT DRAWINGS SHOWING EVERY CHANGE FROM THE ORIGINAL DRAWINGS MADE DURING THE COURSE OF CONSTRUCTION INCLUDING EXACT FINAL LOCATION, ELEVATION, SIZES, MATERIALS, AND DESCRIPTION OF ALL WORK. RECORDS SHALL BE "REDLINED" ON A SET OF CONSTRUCTION PLAN DRAWINGS. A COMPLETE SET OF CORRECTED AND COMPLETED RECORD DRAWING PRINTS SHALL BE SUBMITTED TO THE CITY ENGINEER AND DEVELOPER'S CIVIL ENGINEER PRIOR TO FINAL ACCEPTANCE FOR REVIEW AND APPROVAL BY THE CITY ENGINEER.

## HAZARDOUS MATERIALS NOTE

THERE MAY BE ASBESTOS CONTAINING PIPE AND PIPE INSTALLATION OR OTHER HAZARDOUS MATERIALS WITHIN THE PROJECT AREA. THE CONTRACTOR WILL PROTECT ALL HAZARDOUS CONTAINING ITEMS DURING THE EXECUTION OF THIS CONTRACT. ADDITIONALLY THE CONTRACTOR WILL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS REGARDING CONSTRUCTION ACTIVITIES NEAR HAZARDOUS MATERIALS.

## CONSTRUCTION FENCE

- CONTRACTOR SHALL PROVIDE A CONSTRUCTION FENCE AROUND THE ENTIRE AREA OF DEMOLITION AND CONSTRUCTION, INCLUDING ALL STAGING, STORAGE, CONSTRUCTION OFFICE AND LAYDOWN AREAS.
- 2. CONSTRUCTION FENCE SHALL BE A MINIMUM OF A 6' HIGH GALVANIZED CHAIN LINK WITH GREEN WINDSCREEN FABRIC ON THE OUTSIDE OF THE FENCE.
- CONSTRUCTION FENCE ADDRESSED IN THESE NOTES IS ONLY FOR VISUAL. CONFORMANCE OF THIS CONSTRUCTION SITE TO THE CITY OF CUPERTINO STANDARDS. CONTRACTOR MAY BE REQUIRED TO PROVIDE ADDITIONAL FENCING, BARRICADES OR OTHER SAFETY DEVICES TO KEEP THE SITE SECURE AND SAFE.

## PAVEMENT SECTIONS

- 1. SEE STRUCTURAL DRAWINGS FOR BUILDING SLAB SECTIONS AND PAD PREPARATIONS.
- 2. SEE GEOTECHNICAL REPORT FOR ALL FLATWORK AND VEHICULAR PAVEMENT SECTIONS AND BASE REQUIREMENTS.
- 3. THE FINAL OR SURFACE LAYER OF ASPHALT CONCRETE SHALL NOT BE PLACED UNTIL ALL ON-SITE IMPROVEMENTS HAVE BEEN COMPLETED, INCLUDING ALL GRADING, AND ALL UNACCEPTABLE CONCRETE WORK HAS BEEN REMOVED AND REPLACED. UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER AND/OR DEVELOPER'S CIVIL ENGINEER.
- 4. ALL PAVING SHALL BE IN CONFORMANCE WITH SECTION 26 "AGGREGATE BASE" AND SECTION 39 "ASPHALT CONCRETE" PER LATEST EDITION OF CALTRANS STANDARD SPECIFICATIONS.

## APPLICABLE FIRE CODE NOTES

APPLICABLE CODES AS OF JANUARY 1, 2020:

2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR) 2019 CALIFORNIA BUILDING CODE, VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR) (2018 EDITION INTERNATIONAL BUILDING CODE)

2019 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR) (2017 EDITION NATIONAL ELECTRICAL CODE)

2019 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR) (2018 EDITION UNIFORM MECHANICAL CODE)

2019 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR) (2018 EDITION UNIFORM PLUMBING CODE)

2019 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR) 2016 CALIFORNIA ELEVATOR SAFETY ORDERS (CHAPTER 4, TITLE 8, CCR)

2019 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)

2019 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR) TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

PARTIAL LIST OF APPLICABLE STANDARDS:

NFPA 13 - AUTOMATIC SPRINKLER SYSTEMS - 2019 EDITION NFPA 14 - STANDPIPE SYSTEMS - 2019 EDITION NFPA 17A - WET CHEMICAL SYSTEMS - 2017 EDITION

NFPA 24 - PRIVATE FIRE MAINS - 2019 EDITION NFPA 72 - NATIONAL FIRE ALARM CODE - 2019 EDITION NFPA 253 - CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS - 2019 EDITION NFPA 20 - STATIONARY PUMPS FOR FIRE PROTECTION - 2019 EDITION

NFPA 99 - HEALTH CARE FACILITIES - 2018 EDITION

<u>UNDERGROUND FIRE SERVICE TO FIRE HYDRANTS REQUIREMENTS:</u>

NFPA 24, SEC. 10.10.2.1: UNDERGROUND PIPING, FROM THE WATER SUPPLY TO THE SYSTEM RISER, AND LEAD—IN CONNECTIONS TO THE SYSTEM RISER, INCLUDING ALL HYDRANTS, SHALL BE COMPLETELY FLUSHED BEFORE THE CONNECTION IS MADE TO THE DOWNSTREAM FIRE PROTECTION SYSTEM PIPING. THE FLUSHING OPERATION SHALL BE CONTINUED FOR A SUFFICIENT TIME TO ENSURE THOROUGH CLEANING. THE MINIMUM RATE OF FLOW SHALL BE NOT LESS THAN THAT SPECIFIED IN SECTION 10.10.2.1.3.

NFPA 24, SEC. 10.10.2.1.3: THE MINIMUM RATE OF FLOW SHALL BE NO LESS THAN ONE OF THE FOLLOWING: (1) HYDRAULICALLY CALCULATED WATER DEMAND FLOW RATE OF THE SYSTEM, INCLUDING ANY HOSE REQUIREMENTS; (2) FLOW NECESSARY TO PROVIDE A VELOCITY OF 10 FT/SEC (3.1 M/SEC) IN ACCORDANCE WITH TABLE 10.10.2.1.3; (3) MAXIMUM FLOW RATE AVAILABLE TO THE SYSTEM UNDER THE CONDITIONS.

NFPA 24, SEC. 10.10.2.2.1\*: ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI (13.8 BAR) OR 50 PSI (3.5 BAR) IN EXCESS OF THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE AT + 5 PSI (0.35 BAR) FOR 2 HOURS.

NFPA 24, SEC 10.10.1: THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING: (1) NOTIFYING THE AUTHORITY HAVING JURISDICTION AND THE OWNER'S REPRESENTATIVE OF THE TIME AND DATE TESTING IS TO BE PERFORMED: (2) PERFORMING ALL REQUIRED ACCEPTANCE TESTS; (3) COMPLETING AND SIGNING THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE(S) SHOWN IN FIGURE 10.10.1.

NFPA 24, CHAPTER 10.4.3: IN THOSE LOCATIONS WHERE FROST IS NOT A FACTOR, THE DEPTH OF COVER SHALL NOT BE LESS THAN 2 ½ FEET (0.8 M) TO PREVENT MECHANICAL DAMAGE.

## PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2020

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) 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

PARTIAL LIST OF APPLICABLE STANDARDS NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED) (2016

NFPA 14 — STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED) (2016 EDITION)

NFPA 17 — STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS (2017 EDITION) 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, INCLUDING

ACCESSORIES (2003 EDITION) 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)

AND CALIFORNIA FIRE CODE CHAPTER 80. 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 EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY

## GENERAL UTILITY NOTES

- 1. ALL TRENCHES SHALL BE BACK FILLED PER THE GEOTECHNICAL REPORT OR UTILITY OWNERS STANDARD DETAILS AND SPECIFICATIONS.
- 2. CONTRACTOR SHALL STAKE LOCATION OF ABOVE GROUND UTILITY EQUIPMENT (TRANSFORMER, GAS METER, ETC.) PLANNING DEPARTMENT MUST SPECIFICALLY AGREE WITH LOCATION PRIOR TO PROCEEDING WITH ANY REVISIONS TO APPROVED
- 3. CATHODIC PROTECTION SHALL BE REQUIRED ON ALL METALLIC FITTINGS AND ASSEMBLIES THAT ARE IN CONTACT WITH THE SOIL, UNLESS SPECIFICALLY DEEMED UNNECESSARY BY THE GEOTECHNICAL REPORT. CONTRACTOR IS RESPONSIBLE TO FULLY ENGINEER AND INSTALL THIS SYSTEM AND COORDINATE ANODE AND TEST STATION LOCATIONS WITH THE UTILITY OWNER.
- 4. COMPLETE SYSTEMS: ALL UTILITY SYSTEMS ARE DELINEATED IN A SCHEMATIC MANNER ON THESE PLANS. CONTRACTOR IS TO PROVIDE ALL FITTINGS, ACCESSORIES AND WORK NECESSARY TO COMPLETE THE UTILITY SYSTEM SO THAT IT IS FULLY FUNCTIONING FOR THE PURPOSE INTENDED.
- 5. UNDERGROUND UTILITIES OR STRUCTURES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS AND EXTENT BASED UPON RECORD INFORMATION. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CLIENT, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO, AGREES TO ASSUME LIABILITY AND TO HOLD UNDERSIGNED HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERSIGNED; NOT INDICATED ON THE PUBLIC RECORDS EXAMINED, LOCATED AT VARIANCE WITH THOSE REPORTED OR SHOWN ON RECORDS EXAMINED.
- 6. CONTRACTOR SHALL VERIFY ALL EXISTING INVERT ELEVATIONS FOR STORM DRAIN AND SANITARY SEWER CONSTRUCTION PRIOR TO COMMENCEMENT OF ANY WORK. ALL WORK FOR STORM AND SANITARY SEWER INSTALLATION SHALL BEGIN AT THE DOWNSTREAM CONNECTION POINT. THIS WILL ALLOW FOR ANY NECESSARY ADJUSTMENTS TO BE MADE PRIOR TO THE INSTALLATION OF THE ENTIRE LINE. IF THE CONTRACTOR FAILS TO BEGIN AT THE DOWNSTREAM CONNECTION POINT AND WORK UP-STREAM, AND SHALL PROCEED AT HIS OWN RISK AND BE RESPONSIBLE FOR ANY ADJUSTMENTS NECESSARY.
- 7. EXISTING UTILITY CROSSINGS OF NEW PIPELINE ARE SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. GAS, WATER AND SEWER SERVICE LATERALS ARE SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE TYPE. SIZE. LOCATION AND DEPTH OF ALL THE UTILITY CROSSING (BOTH MAINS AND LATERALS) ARE CORRECT AS SHOWN. NO GUARANTEE IS MADE THAT ALL EXISTING UTILITIES (BOTH MAINS AND LATERALS) ARE SHOWN. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING AND SHALL PROTECT ALL EXISTING UTILITIES (BOTH MAINS AND LATERALS) FROM DAMAGE DUE TO HIS OPERATION.
- 8. VERTICAL SEPARATION REQUIREMENTS (UNLESS SPECIFICALLY SHOWN OTHERWISE ON PLANS):
  - A MINIMUM OF SIX (6) INCHES VERTICAL CLEARANCE, MEASURED FROM OUTSIDE EDGE OF PIPE, SHALL BE PROVIDED BETWEEN CROSSING UTILITY PIPES, EXCEPT THAT THE MINIMUM VERTICAL CLEARANCE BETWEEN WATER AND SANITARY SEWER PIPELINES SHALL BE 12 INCHES AND ALL NEW WATER PIPES SHALL BE TYPICALLY INSTALLED TO CROSS ABOVE/OVER EXISTING SANITARY SEWER
- WHERE NEW WATER PIPELINES ARE REQUIRED TO CROSS UNDER EXISTING AND/OR NEW SANITARY SEWER PIPELINES, THE MINIMUM VERTICAL SEPARATION SHALL BE 12 INCHES. WATER LINE PIPE ENDS SHALL BE INSTALLED NO CLOSER THAN 10' MINIMUM HORIZONTAL DISTANCE FROM CENTERLINE OF UTILITY
- 9. HORIZONTAL SEPARATION REQUIREMENTS (UNLESS SPECIFICALLY SHOWN OTHERWISE
  - A MINIMUM HORIZONTAL SEPARATION BETWEEN NEW PIPELINES AND ANY EXISTING UTILITIES SHALL BE 5' FEET, EXCEPT THAT THE MINIMUM HORIZONTAL SEPARATION FOR WATER AND SANITARY SEWER MAIN PIPELINES SHALL BE 10'
  - A MINIMUM HORIZONTAL SEPARATION BETWEEN NEW PIPELINES AND JOINT TRENCH SHALL BE 5 FEET.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING APPROPRIATE UTILITIES AND REQUESTING VERIFICATION OF SERVICE POINTS. FIELD VERIFICATION OF LOCATION, SIZE, DEPTH, ETC. FOR ALL THEIR FACILITIES AND TO COORDINATE WORK SCHEDULES.
- 11. ANY EXISTING UNDERGROUND UTILITY LINES TO BE ABANDONED, SHALL BE REMOVED FROM WITHIN THE PROPOSED BUILDING ENVELOPE AND THEIR ENDS CAPPED OUTSIDE OF THE BUILDING ENVELOPE.
- 12. ANY PIPING TO BE ABANDONED IN PLACE SHALL BE FILLED WITH GROUT AND

## GRADING NOTES

THE CLIENT.

EARTHWORK QUANTITIES.

- PROVIDE POSITIVE SURFACE DRAINAGE AWAY FROM ALL STRUCTURES BY SLOPING ALL HARDSCAPE SURFACES AT 2% AND LANDSCAPE SURFACES AT 5% AWAY FROM STRUCTURES UNLESS OTHERWISE NOTED ON PLANS.
- 2. STRUCTURE WALLS: PER CBC 2304.11.2.2 (WOOD SUPPORTED BY FOUNDATION) PROVIDE 8" MINIMUM CLEAR TO EXTERIOR GRADE.

3. ALL FILL, IMPORT SOILS AND GRADING SHALL BE IN CONFORMANCE WITH THE

- GEOTECHNICAL REPORT PERFORMED BY TREADWELL & ROLLO, DATED NOVEMBER 2, 2002, PROJECT NUMBER 3169.01. COORDINATE THE PLACEMENT OF ALL SLEEVES FOR LANDSCAPE IRRIGATION (WATER AND
- CONTROL WIRING) AND SITE LIGHTING PRIOR TO THE PLACEMENT OF ANY ASPHALT. BASEROCK OR CONCRETE SURFACING. SEE LANDSCAPING AND SITE ELECTRICAL DRAWINGS. ROUGH GRADING TO BE WITHIN 0.1' AND FINISH GRADES ARE TO BE WITHIN 0.05',

HOWEVER CONTRACTOR SHALL NOT CONSTRUCT ANY IMPROVEMENTS THAT WILL CAUSE

CONTRACTORS SHALL BE REQUIRED TO DO CORRECTIVE GRADING, AT NO EXTRA COST TO

WATER TO POND OR NOT MEET REQUIREMENTS IN GRADING NOTE #1 OR THE ADA

- REQUIREMENTS BELOW. DO NOT ADJUST GRADES ON THIS PLAN WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER/ARCHITECT. 6. THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO CONFORM TO THE LINES, GRADES, SECTIONS. AND DIMENSIONS AS SET FORTH ON THESE PLANS. ALL GRADED AREAS SHALL CONFORM TO THE VERTICAL ELEVATIONS SHOWN WITH A TOLERANCE OF ONE—TENTH OF A FOOT. WHERE GRADED AREAS DO NOT CONFORM TO THESE TOLERANCES, THE
- 7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE GROUND ELEVATIONS AND OVERALL TOPOGRAPHY OF THE SITE PRIOR TO THE START OF CONSTRUCTION AS TO THE ACCURACY BETWEEN THE WORK SET FORTH ON THESE PLANS AND THE WORK IN THE FIELD. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND CIVIL ENGINEER IN WRITING PRIOR TO START OF CONSTRUCTION WHICH MAY REQUIRE CHANGES IN DESIGN AND/OR AFFECT THE
- FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 ALL GRADING SHALL CONFORM TO APPROVED SPECIFICATIONS PRESENTED HEREON OR ATTACHED HERETO. ALL GRADING WORK SHALL BE OBSERVED AND APPROVED BY THE SOILS ENGINEER. THE SOILS ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS BEFORE BEGINNING ANY GRADING. UNOBSERVED AND UNAPPROVED GRADING WORK SHALL BE REMOVED AND REDONE AT THE CONTRACTORS EXPENSE.
  - 9. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY EXISTING IMPROVEMENTS OF UNDERGROUND FACILITIES DAMAGED DURING THE CONSTRUCTION
  - 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL ENCROACHMENT. EXCAVATION. CONCRETE. ELECTRICAL. PLUMBING. ETC. PERMITS NECESSARY PRIOR TO BEGINNING CONSTRUCTION FOR ANY WORK.

11. THE RISE/ RUN/ STEP COUNT IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY

- ELEVATIONS AND BUILDING CODE COMPLIANCE PRIOR TO ANY WORK. 12. AREAS LACKING TOPOGRAPHIC INFORMATION (ELEVATIONS) HAVE BEEN INTERPOLATED USING STANDARD ENGINEERING METHODS. CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS AT CONFORMS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REPORT
- 13. ADJUST ANY MANHOLE OR UTILITY STRUCTURES TO PROPOSED GRADE PRIOR TO INSTALLING FINAL LIFT OF AC OR POURING CONCRETE.

BACK ANY DISCREPANCIES TO THE CIVIL ENGINEER.

## DUST CONTROL NOTES

- WATER TRUCKS SHALL BE PRESENT AND IN USE AT THE CONSTRUCTION SITE. ALL PORTIONS OF THE SITE SUBJECT TO BLOWING DUST SHALL BE WATERED AS OFTEN AS DEEMED NECESSARY BY THE CLIENT/INSPECTOR IN ORDER TO INSURE PROPER CONTROL OF BLOWING DUST FOR THE DURATION OF THE PROJECT.
- 2. ALL PUBLIC STREETS AND MEDIANS SOILED OR LITTERED DUE TO THIS CONSTRUCTION ACTIVITY SHALL BE CLEANED AND SWEPT ON A DAILY BASIS DURING THE WORK WEEK, OR AS OFTEN AS DEEMED NECESSARY BY THE CLIENT/INSPECTOR, OR TO THE SATISFACTION OF THE CITY'S DEPARTMENT OF PUBLIC WORKS.
- 3. ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS SHALL BE COVERED WITH TARPAULINS OR OTHER EFFECTIVE COVERS.
- 4. WHEEL WASHERS SHALL BE INSTALLED AND USED TO CLEAN ALL TRUCKS AND EQUIPMENT LEAVING THE CONSTRUCTION SITE. IF WHEEL WASHERS CANNOT BE INSTALLED, TIRES OR TRACKS OF ALL TRUCKS AND EQUIPMENT SHALL BE WASHED OFF BEFORE LEAVING THE CONSTRUCTION SITE.
- 5. THE CONTRACTOR SHALL DEMONSTRATE DUST SUPPRESSION MEASURES, SUCH AS REGULAR WATERING, WHICH SHALL BE IMPLEMENTED TO REDUCE EMISSIONS DURING CONSTRUCTION AND GRADING IN A MANNER MEETING THE APPROVAL OF THE CONSTRUCTION MANAGER. THIS SHALL ASSIST IN REDUCING SHORT-TERM IMPACTS FROM PARTICLES WHICH COULD RESULT IN NUISANCES THAT ARE PROHIBITED BY RULE 403 (FUGITIVE DUST).
- 6. GRADING OR ANY OTHER OPERATIONS THAT CREATES DUST SHALL BE STOPPED IMMEDIATELY IF DUST AFFECTS ADJACENT PROPERTIES. THE CONTRACTOR SHALL PROVIDE SUFFICIENT DUST CONTROL FOR THE ENTIRE PROJECT SITE IN ACCORDANCE WITH THE PROJECT SWPPP (IF ONE EXISTS) OR AS APPLICABLE PER LOCAL REGULATIONS AT ALL TIMES. THE SITE SHALL BE SPRINKLERED AS NECESSARY TO PREVENT DUST NUISANCE. IN THE EVENT THAT THE CONTRACTOR NEGLECTS TO USE ADEQUATE MEASURES TO CONTROL DUST, THE CLIENT RESERVES THE RIGHT TO TAKE WHATEVER MEASURES ARE NECESSARY TO CONTROL DUST AND CHARGE THE COST TO THE CONTRACTOR.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL MEASURES AND FOR OBTAINING ALL REQUIRED PERMITS AND APPROVALS. ALL GRADING OPERATIONS SHALL BE SUSPENDED DURING SECOND (OR WORSE) STAGE SMOG ALERTS.

## GENERAL SITE NOTES

- CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING ON THIS WORK AND CONSIDER THE EXISTING CONDITIONS AND SITE CONSTRAINTS IN THE BID. CONTRACTOR SHALL BE IN THE POSSESSION OF AND FAMILIAR WITH ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS AND SPECIFICATIONS PRIOR TO SUBMITTING OF A BID.
- 2. ALL WORK ON-SITE AND IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS & SPECIFICATIONS.
- 3. PRIOR TO BEGINNING WORK, AND AFTER INITIAL HORIZONTAL CONTROL STAKING, CONTRACTOR SHALL FIELD CHECK ALL ELEVATIONS MARKED WITH (E) AND REPORT ANY DISCREPANCIES GREATER THAN 0.05' TO THE ENGINEER.
- 4. DAMAGE TO ANY EXISTING SITE IMPROVEMENTS, UTILITIES AND/OR SERVICES TO REMAIN SHALL BE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
- 5. 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 CLIENT, THE CONSULTING ENGINEER AND THE CITY 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 CLIENT OR THE CONSULTING ENGINEER.

## TREE PROTECTION

DIE DUE TO LACK OF MAINTENANCE.

- 1. PRIOR TO BEGINNING CONSTRUCTION ON SITE. CONTRACTOR SHALL IDENTIFY AND PROTECT EXISTING TREES AND PLANTS DESIGNATED AS TO REMAIN.
- 2. PROTECT EXISTING TREES TO REMAIN FROM SPILLED CHEMICALS. FUEL OIL, MOTOR OIL, GASOLINE AND ALL OTHER CHEMICALLY INJURIOUS MATERIAL; AS WELL AS FROM PUDDLING OR CONTINUOUSLY RUNNING WATER. SHOULD A SPILL OCCUR, STOP WORK IN THAT AREA AND CONTACT THE CITY'S ENGINEER/INSPECTOR IMMEDIATELY. CONTRACTOR SHALL BE RESPONSIBLE TO MITIGATE DAMAGE FROM SPILLED MATERIAL AS WELL AS MATERIAL CLEAN UP.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR ONGOING MAINTENANCE OF ALL TREES DESIGNATED TO REMAIN AND FOR MAINTENANCE OF RELOCATED TREES STOCKPILED DURING CONSTRUCTION. CONTRACTOR WILL BE REQUIRED TO REPLACE TREES THAT
- 4. REFER TO LANDSCAPE PLANS, SPECIFICATIONS OR ARBORIST REPORT FOR TREE

## PROTECTION REQUIREMENTS AND MEASURES. PROJECT SITE MAINTENANCE

- . REMOVE ALL DIRT, GRAVEL, RUBBISH, REFUSE, AND GREEN WASTE FROM STREET PAVEMENT AND STORM DRAINS ADJOINING THE SITE. LIMIT CONSTRUCTION ACCESS ROUTES ONTO THE SITE AND PLACE GRAVEL PADS AT THESE LOCATIONS. DO NOT DRIVE VEHICLES AND EQUIPMENT OFF THE PAVED OR GRAVELED AREAS DURING WET
- WEATHER. 2. SWEEP OR VACUUM THE STREET PAVEMENT AND SIDEWALKS ADJOINING THE PROJECT SITE AND THE ON-SITE PAVED AREAS ON A DAILY BASIS. SCRAPE CAKED-ON MUD AND DIRT FROM THESE AREAS BEFORE SWEEPING. CORNERS AND HARD TO REACH
- AREAS SHALL BE SWEPT MANUALLY. CREATE A CONTAINED AND COVERED AREA ON THE SITE FOR THE STORAGE OF BAGS, CEMENT, PAINTS, OILS, FERTILIZERS, PESTICIDES, OR OTHER MATERIALS USED ON THE SITE THAT HAVE THE POTENTIAL OF BEING DISCHARGED INTO THE STORM DRAIN SYSTEM THROUGH EITHER BEING WIND-BLOWN OR IN THE EVENT OF A
- 4. NEVER CLEAN MACHINERY, EQUIPMENT OR TOOLS INTO A STREET, GUTTER OR STORM
- 5. ENSURE THAT CEMENT TRUCKS, PAINTERS, OR STUCCO/PLASTER FINISHING CONTRACTORS DO NOT DISCHARGE WASH WATER FROM EQUIPMENT, TOOLS OR RINSE CONTAINERS INTO GUTTERS OR DRAINS.

## ADA NOTES

MATERIAL SPILL.

- ALL HARDSCAPE ALONG THE ADA PATH OF TRAVEL SHALL BE IN CONFORMANCE WITH
- TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE. 2. SLOPED WALKS ALONG THE DESIGNATED ADA PATH OF TRAVEL SHALL NOT EXCEED A SLOPE OF 1:20 (5%) WITHOUT HANDRAILS. THE MAXIMUM SLOPE WITH HANDRAILS OR FOR CURB RAMPS IS 1:12 (8.33%). LEVEL LANDINGS ARE REQUIRED AT THE TOP AND BOTTOM
- 3. WALKWAYS ON ANY PATH OF TRAVEL SHALL HAVE A MINIMUM WIDTH OF 48". WALKWAYS AND ADA PARKING STALLS OR LOADING ZONES SHALL HAVE A 2% MAXIMUM CROSS

OF ALL SLOPED WALKWAYS AND RAMPS.

- 4. A LEVEL LANDING (2% MAX SLOPE) SHALL BE PROVIDED AT ALL ACCESSIBLE ENTRANCES TO BUILDINGS. THE LANDINGS SHALL HAVE A MINIMUM WIDTH OF 60" AND A MINIMUM DEPTH OF 60" WHEN THE DOOR OPENS INTO THE BUILDING. AND 42" PLUS THE WIDTH OF THE DOOR WHEN THE DOOR OPEN ONTO THE LANDING.
- 5. RAMPS GREATER THAN 1:20 SLOPE AND EXCEEDING 30" IN VERTICAL ELEVATION CHANGE SHALL HAVE INTERMEDIATE LEVEL LANDINGS.

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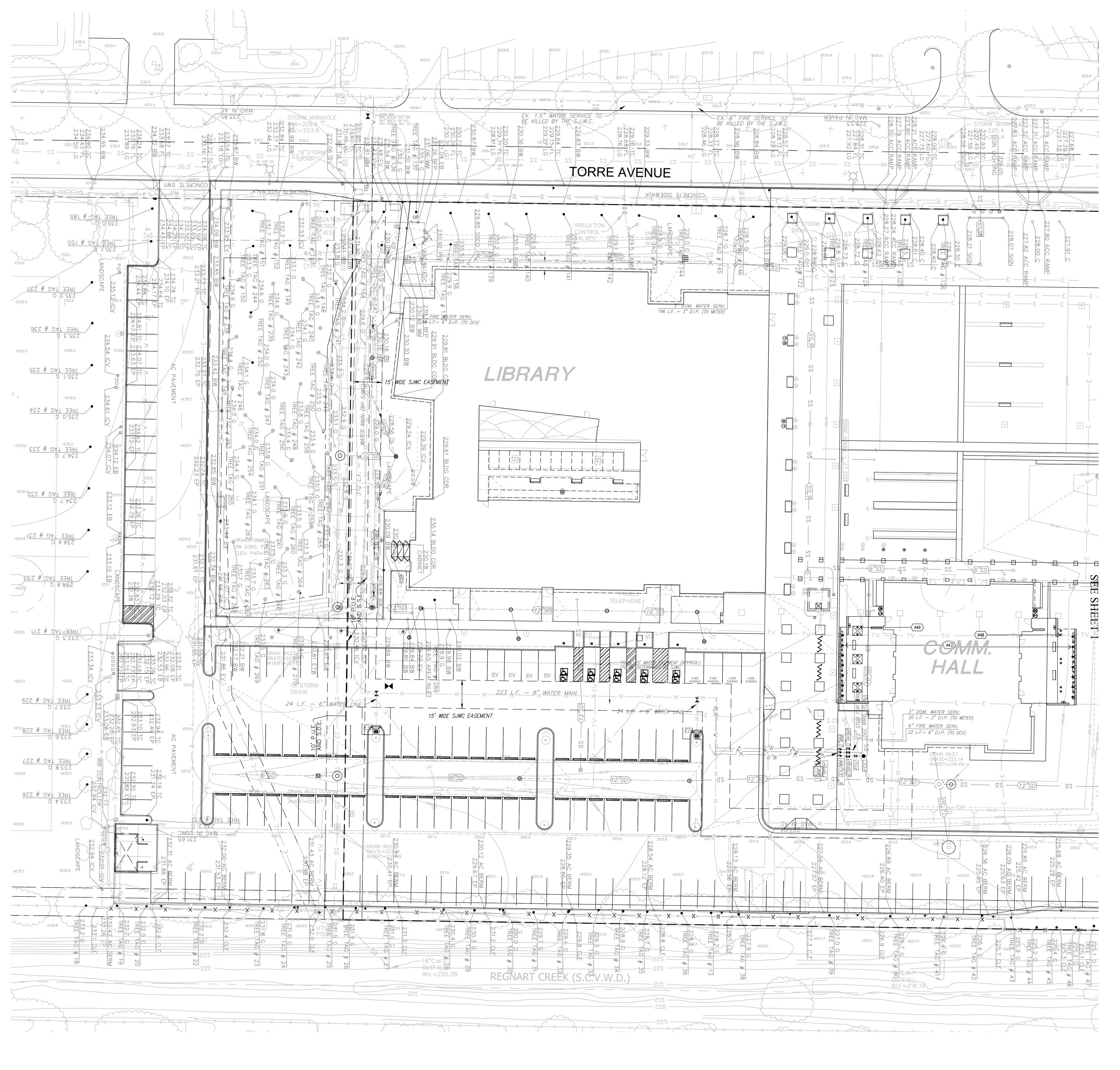
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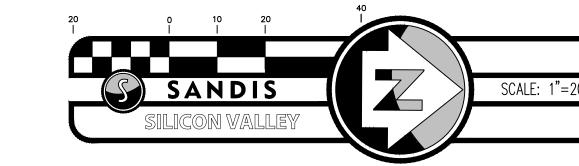
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## SURVEY NOTES

- 1. EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN HEREON IS BASED UPON TOPOGRAPHIC SURVEYS COMPLETED BY OTHERS. THESE SURVEYS INCLUDE:

  -- TOPOGRAPHIC SURVEY BY NELSON ENGINEERING, DATED MAY 2002

  -- TOPOGRAPHIC SURVEY BY BKF ENGINEERS, DATED AUGUST 14 2015
- 2. UTILITIES SHOWN ON THIS SURVEY ARE BASED ON DESIGN FILES. NO WARRANTIES ARE EXPRESSED OR IMPLIED CONCERNING THE EXISTENCE, SIZE, DEPTH, CONDITION, CAPACITY, OR LOCATION OR ANY UTILITY EXISTING ON THE SITE, WHETHER PRIVATE, MUNICIPAL, OR PUBLIC OWNED.
- 3. CONTRACTOR SHALL VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION AND REPORT BACK TO CIVIL ENGINEER ANY DISCREPANCIES WITH PLAN PRIOR TO COMMENCEMENT OF WORK.

  4. LOCATIONS AND SIZES OF TREE TRUNKS CAN ONLY BE CONSIDERED APPROXIMATE UNLESS.
- 4. LOCATIONS AND SIZES OF TREE TRUNKS CAN ONLY BE CONSIDERED APPROXIMATE UNLESS OTHERWISE STATED ON THE MAP.

## UNDERGROUND UTILITY NOTE

THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THIS SURVEY.

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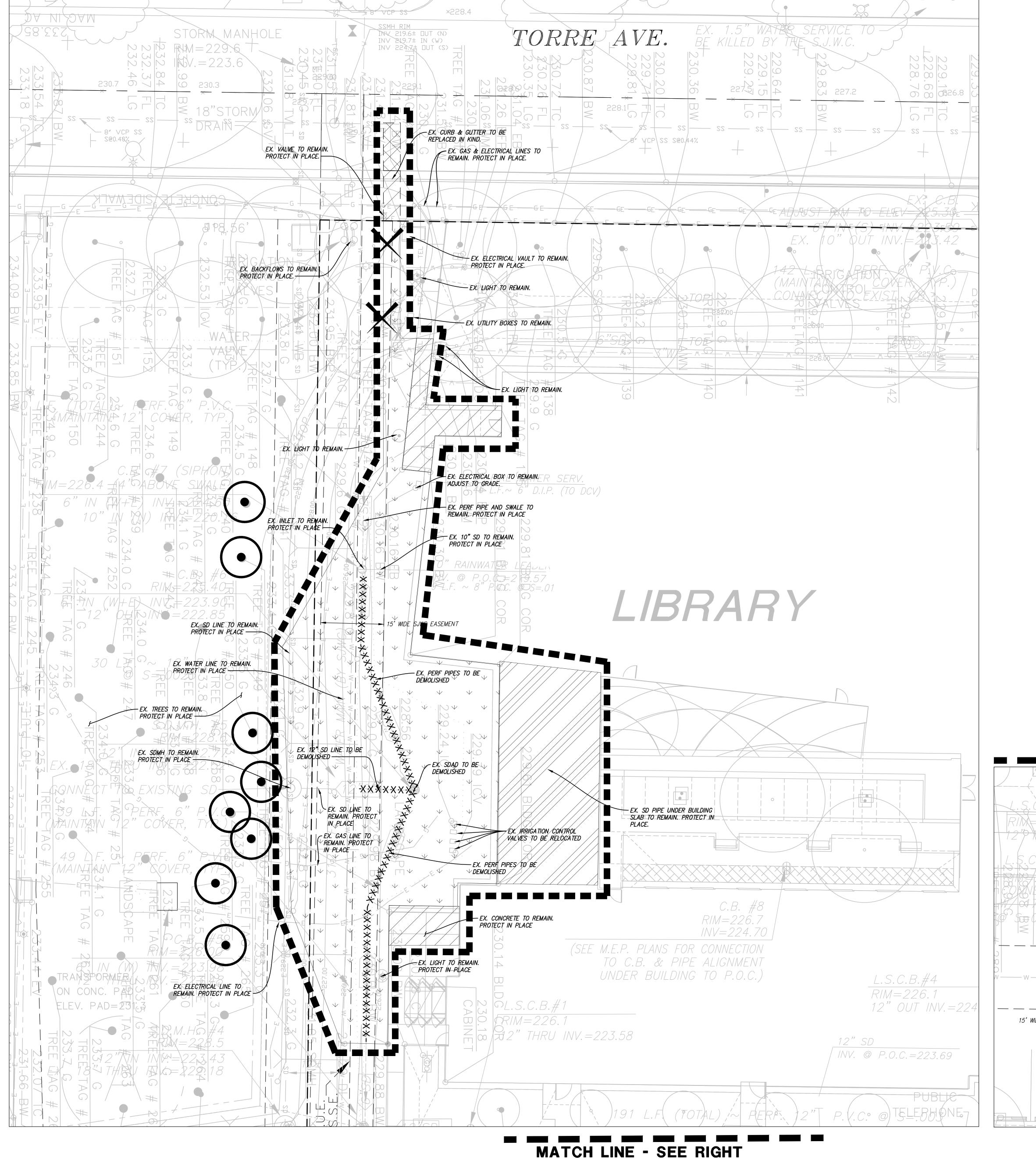
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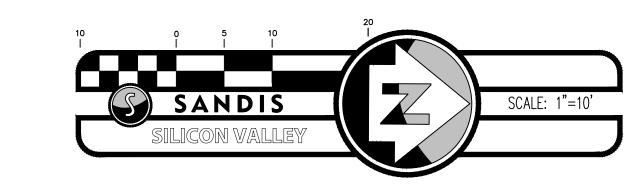
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TOPOGRAPHIC SURVEY

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## **LEGEND**

DEMOLISH AND REMOVE AC PAVING AND ANY ASSOCIATED BASEROCK. STABILIZE THE EXISTING SUBGRADE. DEMOLISHED MATERIAL MAY BE USED AS BASEROCK IF APPROVED BY GEOTECHNICAL ENGINEER.

DEMOLISH AND REMOVE CONCRETE INCLUDING ANY ASSOCIATED BASEROCK AND REBAR. STABILIZE THE EXISTING SUBGRADE, DEMOLISHED MATERIAL MAY BE USED AS BASEROCK IF APPROVED BY THE GEOTECHNICAL ENGINEER.

CLEAR AND GRUB EXISTING LANDSCAPE AREA SO NO ORGANICS ARE STILL PRESENT.

DEMOLISH AND REMOVE EXISTING BUILDING, SEE ARCHITECTURAL PLANS FOR

EXTENT OF BUILDING DEMOLITION. STABILIZE THE EXISTING SUBGRADE.

LIMIT OF WORK LINE

\_\_SAWCUT\_\_ SAWCUT LINE, CONTRACTOR SHALL SAWCUT WITH A NEAT, CLEAN EDGE. SAWCUT CONCRETE AT NEAREST JOINT TO SAWCUT LINE SHOWN ON PLAN.

" II II II REMOVE EXISTING CURB AND GUTTER.

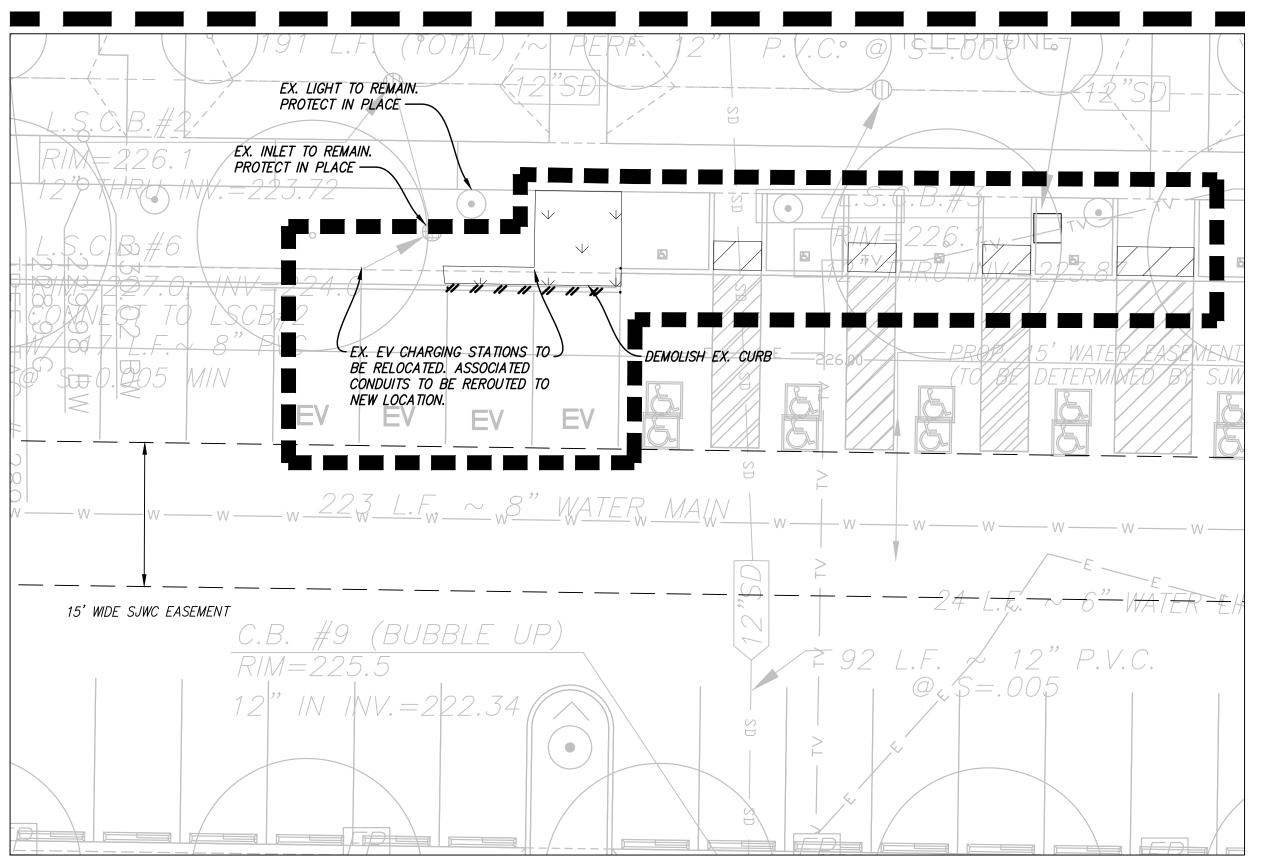
-X-X-X-X- REMOVE EXISTING UTILITY, CUT AND CAP AT LOCATION SHOWN PER UTILITY OWNER'S REQUIREMENTS.

CAP EXISTING UTILITY WHERE SHOWN PER UTILITY OWNERS SPECIFICATIONS AND REQUIREMENTS. IF PRESSURIZED UTILITY CONTRACTOR SHALL HAVE COMPETENT PROFESSIONAL DESIGN PIPE RESTRAINTS.

REMOVE EXISTING TREE AND ROOTBALL. COORDINATE WITH LANDSCAPE ARCHITECT AND PROJECT ARBORIST PRIOR TO REMOVING ANY TREES.

EXISTING TREE TO REMAIN, PROTECT IN PLACE. SEE LANDSCAPE PLANS AND ARBORIST REPORT FOR TREE PROTECTION DETAILS.

## MATCH LINE - SEE LEFT



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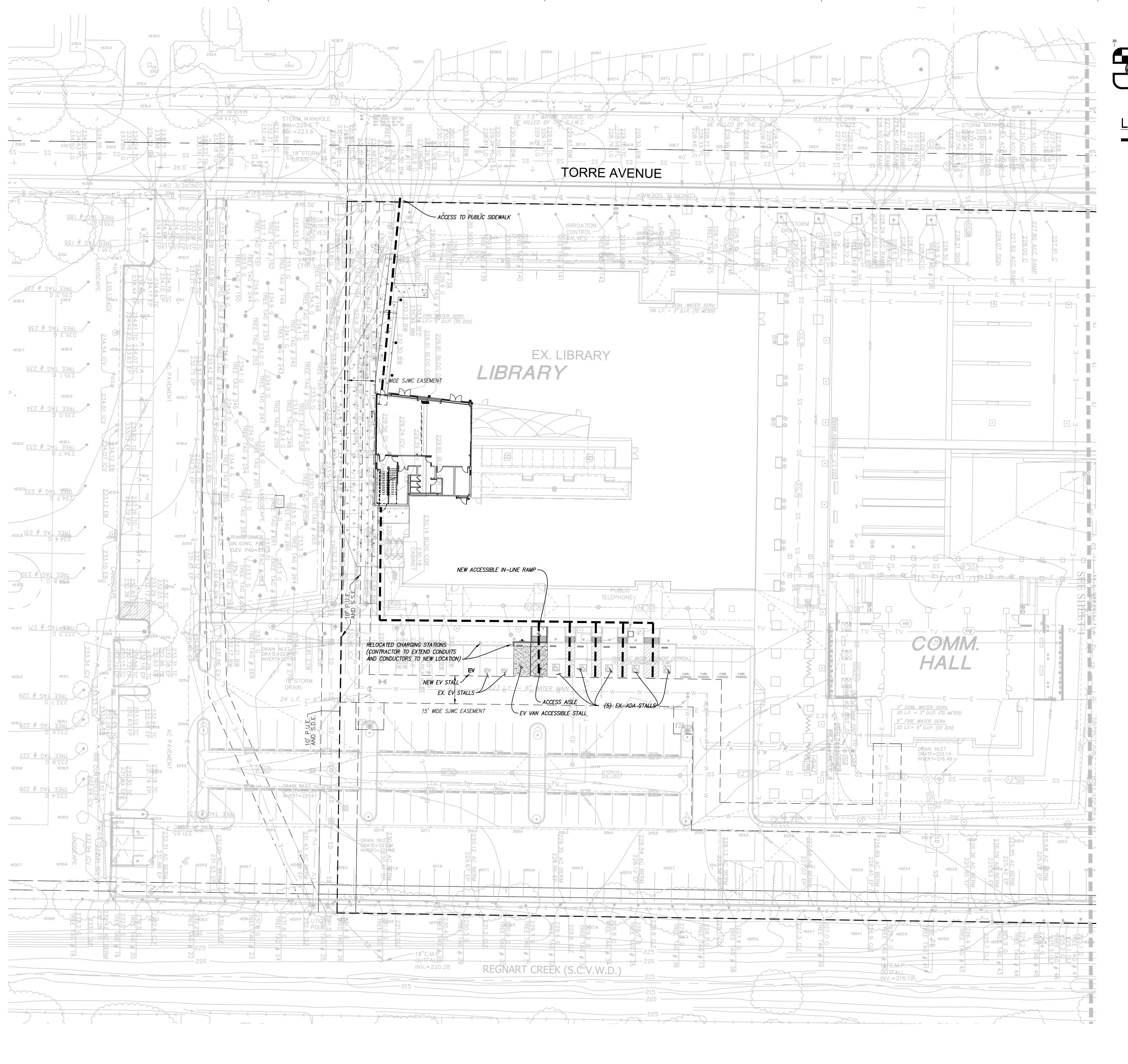
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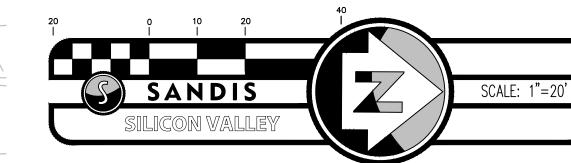
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DEMOLITION PLAN

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<u>LEGEND</u>

PEDESTRIAN ACCESS PATH

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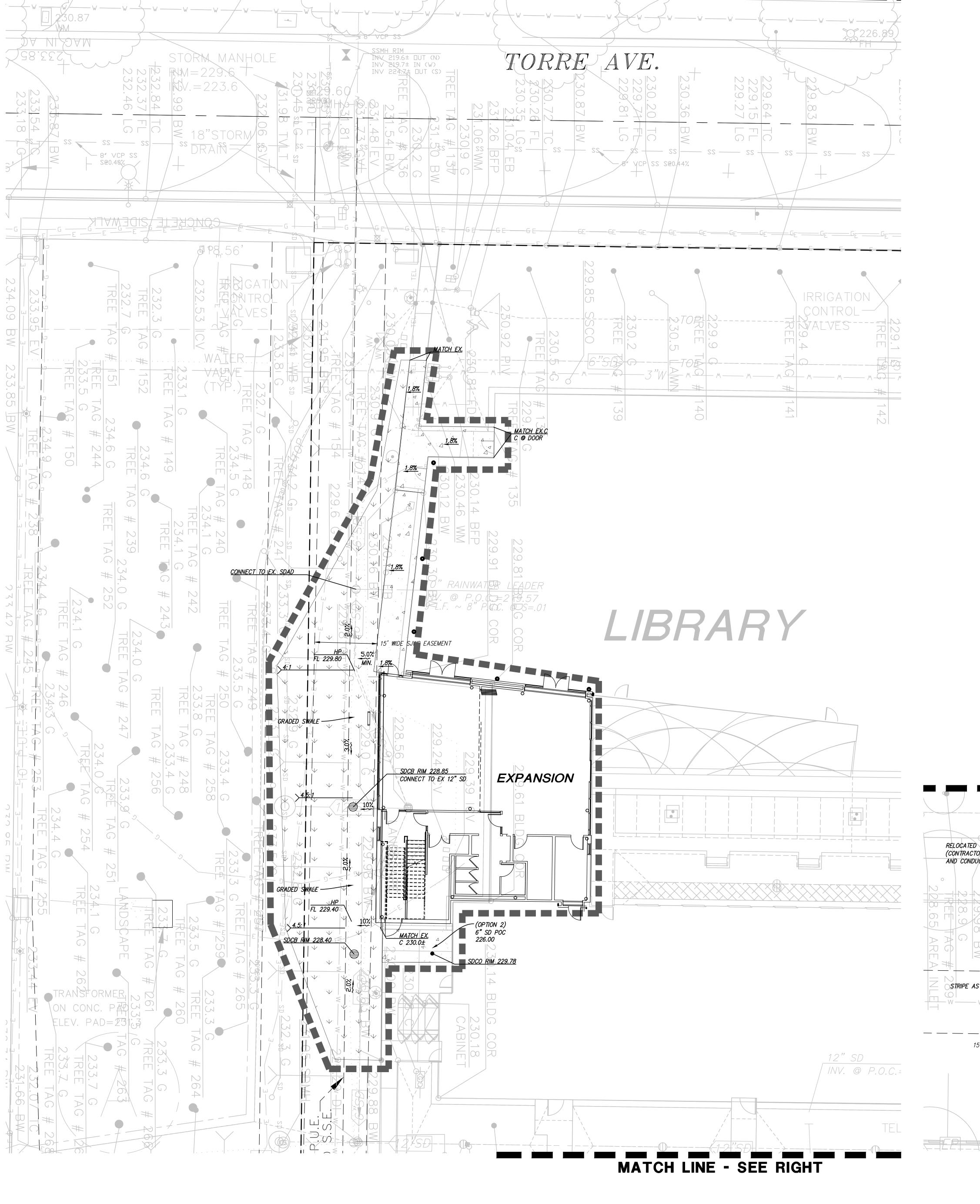
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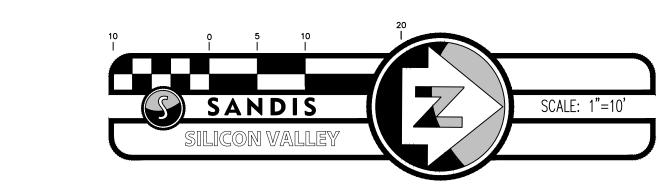
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SITE ACCESS & PARKING PLAN

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C-4.0





## **LEGEND**

AC PAVEMENT

DEEP LIFT

SLURRY SEAL

CONCRETE SIDEWALK

DIRECTION OF STEEP SLOPE

FLOW LINE

GRADE BREAK

TOP OF SLOPE

TOE OF SLOPE

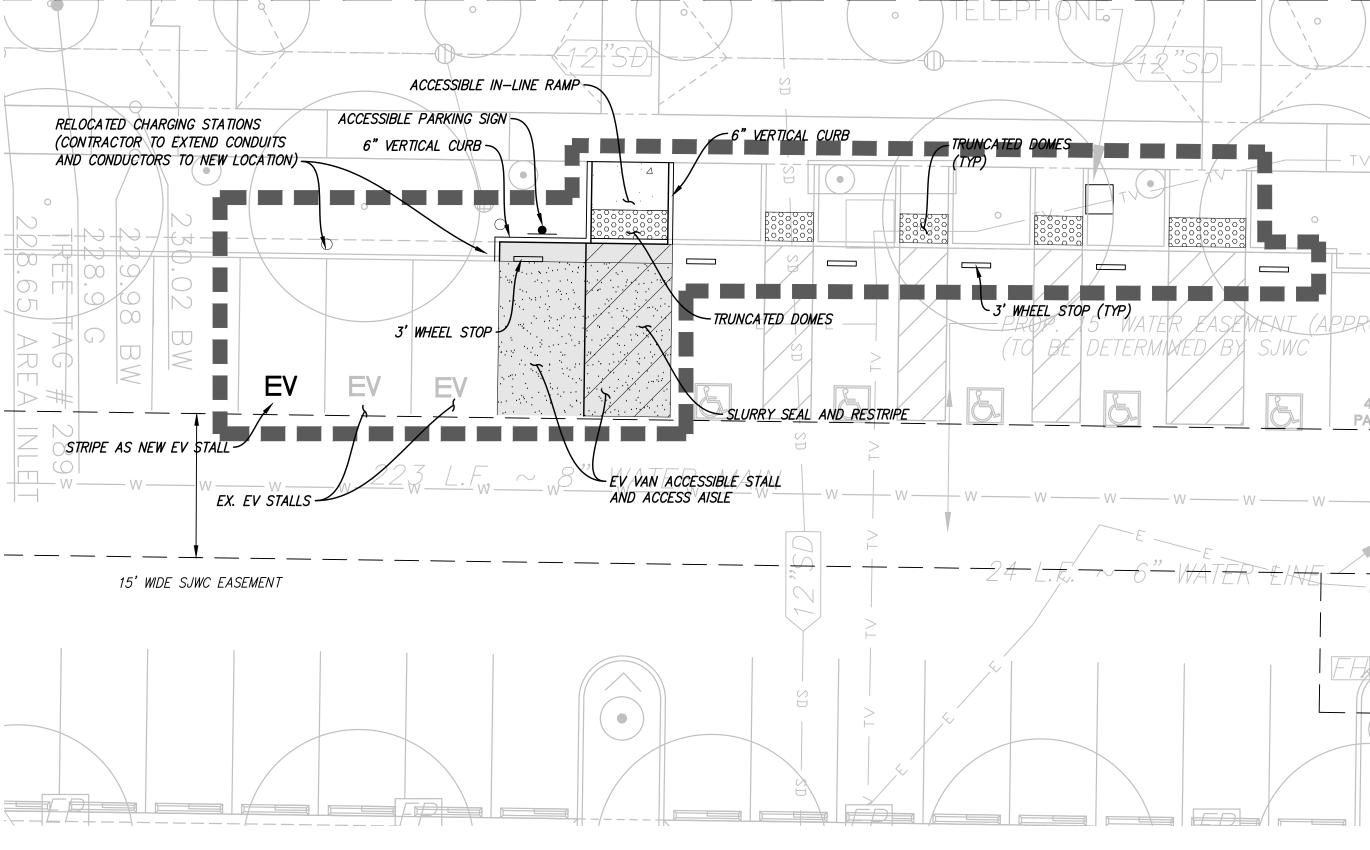
CURB LINE

RETAINING / SITE WALL

SAWCUT LINE

LIMIT OF WORK LINE (L.O.W.)

MATCH LINE - SEE LEFT



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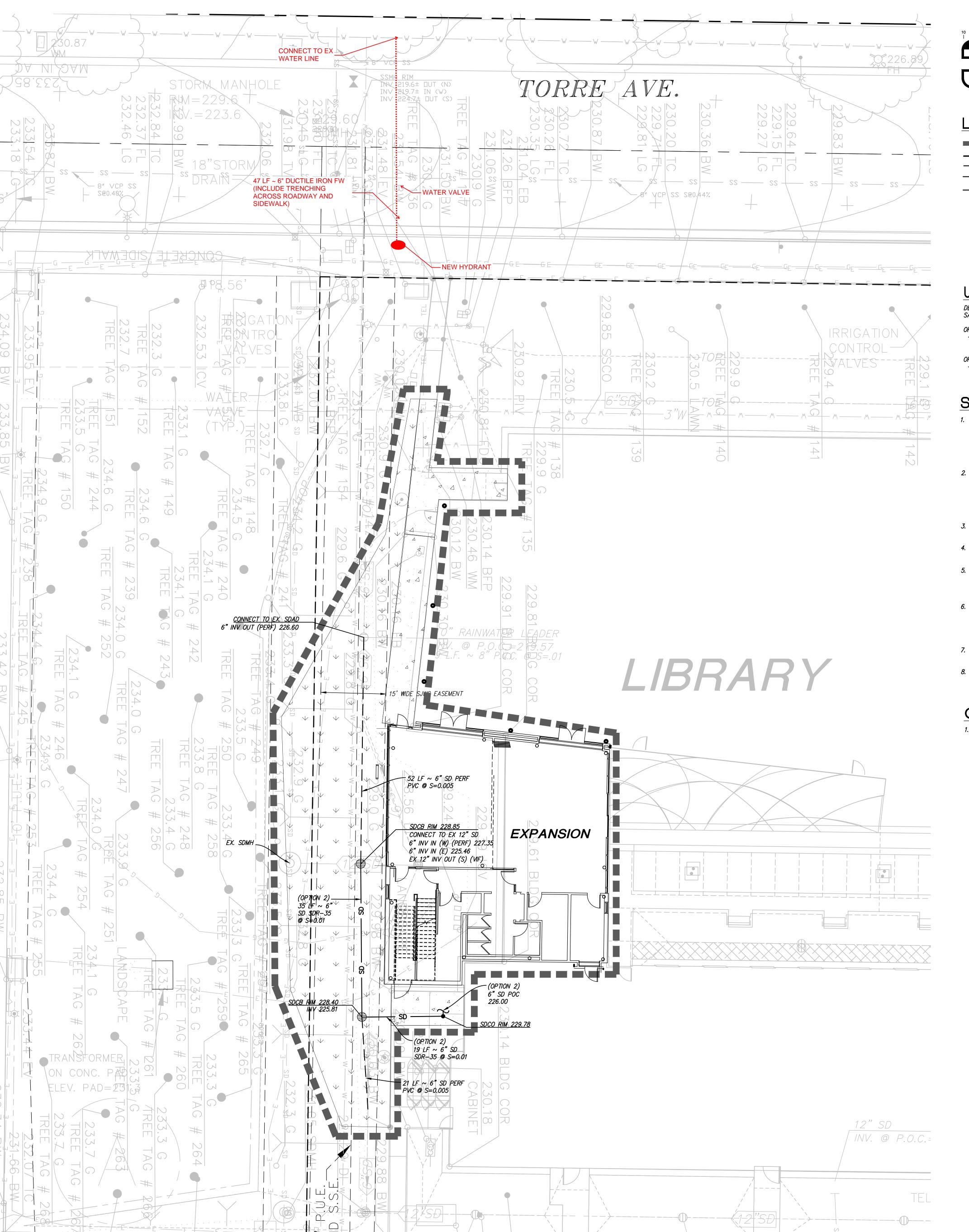
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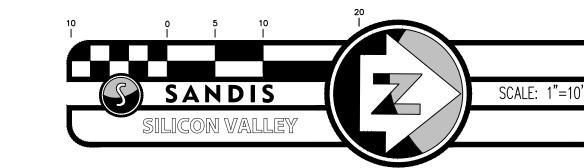
GRADING &

DRAINAGE PLAN

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## LEGEND

	LIMIT OF WORK LINE (L.O.W.)
	PROPERTY LINE
—— SD ——	STORM DRAIN LINE
	PERFORATED PIPE
<i>wtr</i>	WATER LINE
•	CLEAN OUT
	CATCH BASIN

## UTILITY CONNECTION OPTIONS

DEPENDING ON THE EXISTING LIBRARY'S PLUMBING SYSTEM, THERE ARE TWO OPTIONS FOR SANITARY AND STORM DRAIN CONNECTIONS.

- STORM DRAIN FOR THE EXPANSION WILL BE CONNECTED INTERNALLY TO THE EXISTING LIBRARY'S STORM LINE. SEE PLUMBING PLANS FOR ROUTING.

- STORM DRAIN FOR THE EXPANSION WILL BEA NEW LATERAL FROM THE EXPANSION CONNECTING TO THE EXISTING 12" STORM LINE. SEE THIS SHEET FOR ROUTING.

## STORM DRAIN NOTES

- 1. PRIVATE STORM DRAIN LINE 4—INCH THROUGH 12—INCH WITH A MINIMUM OF TWO (2) FEET OF COVER IN NON—TRAFFIC AREAS SHALL BE POLYVINYL CHLORIDE (PVC) SDR 35 GREEN PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 3034—73 WITH BELLS AND SPIGOT CONNECTIONS. ALL DIRECTION CHANGES SHALL BE MADE WITH WYE CONNECTIONS, 22.5° ELBOWS, 45° ELBOWS OR LONG SWEEP ELBOWS, 90° ELBOWS AND TEE'S ARE PROHIBITED.
- 2. PRIVATE STORM DRAIN LINE 6-INCH THROUGH 12-INCH WITH LESS THAN THREE (3) FEET OF COVER IN VEHICULAR TRAFFIC AREAS SHALL BE POLYVINYL CHLORIDE (PVC) C900, RATED FOR 150 PSI CLASS PIPE. PROVIDE AND INSTALL "STORM DRAIN" MARKER TAPE FOR THE ENTIRE LENGTH OF PIPE TRENCH. ALL DIRECTION CHANGES SHALL BE MADE WITH WYE CONNECTIONS, OBTUSE ELBOWS OR LONG SWEEP ELBOWS, 90° ELBOWS AND TEE'S ARE PROHIBITED.
- 3. ALL AREA DRAINS AND CATCH BASINS GRATES WITHIN PEDESTRIAN ACCESSIBLE AREAS SHALL MEET ADA REQUIREMENTS.
- 4. ALL TRENCHES SHALL BE BACK FILLED PER THE SPECIFICATIONS WITH APPROPRIATE TESTS BY THE GEOTECHNICAL ENGINEER TO VERIFY COMPACTION VALUES.
- 5. FOR GRAVITY FLOW SYSTEMS CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY)
  SIZE, MATERIAL, LOCATION AND DEPTH OF ALL SYSTEMS THAT ARE TO BE
  CONNECTED TO OR CROSSED PRIOR TO THE TRENCHING OR INSTALLATION OF ANY
  GRAVITY FLOW SYSTEM.
- 6. DRAINS SHOWN ON CIVIL PLANS ARE NOT INTENDED TO BE THE FINAL NUMBER AND LOCATION OF ALL DRAINS. PLACEMENT AND NUMBER OF LANDSCAPING DRAINS ARE HIGHLY DEPENDENT ON GROUND COVER TYPE AND PLANT MATERIAL. CONTRACTOR SHALL ADD ADDITIONAL AREA DRAINS AS NEEDED AND AS DIRECTED BY THE LANDSCAPE ARCHITECT.
- 7. INSTALL SEPARATE SUB-DRAIN SYSTEM BEHIND RETAINING WALLS PER GEOTECHNICAL REPORT AND CONNECT TO STORM DRAIN SYSTEM AS SHOWN ON PLANS.
- 8. ALL DOWN SPOUTS SHALL DISCHARGE DIRECTLY ON TO ADJACENT PERVIOUS SURFACES OR SPLASH BLOCKS UNLESS OTHERWISE NOTED ON PLANS. SEE ARCHITECTURE PLANS FOR EXACT LOCATION OF THE DOWN SPOUTS.

## GENERAL NOTES

1. CONTRACTOR SHALL POTHOLE TO VERIFY EXISTING UTILITY INVERTS AT ALL UTILITY CROSSINGS.

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Scale
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TN

Sheet Title

EHDD Job Number 20013

UTILITY PLAN

Sheet Number

**C-6.0** 

SEE PLANS FOR

MATERIAL AND SLOPE

4" CL. II A.B.

PAVEMENT SECTION (10" MINIMUM).

"PARKING FOR

CHARGING ONLY".

PARKING FOR ELECTRICAL VEHICLE CHARGING ONLY".

CLASS 2 PORTLAND CEMENT CONCRETE -

SIGN DETAIL

ELECTRICAL VEHICLE ----

STANDARD 2"

**SPECIFICATIONS** 

SECTION 56 ——

GALVANIZED STEEL POST PER CALTRANS

√ FLUSH CURB

95% REL. COMPACTION NOTES:

-SEE PLAN FOR ADJACENT SURFACE AND SLOPE. GRADE SHALL BE FLUSH W/ TOP OF CURB CURB ADJACENT TO PAVED AREA

FOR LANDSCAPED AREAS. SEE ABOVE FOR PAVED AREAS

~ADJACENT SURFACE

SLOPED PER PLAN

*∕CL. II A.B.* 

BOLTS, NUTS AND WASHERS

SPECIFICATIONS SECTION 55

PER CALTRANS

-8" SCARIFY AND COMPACT TO 95% REL.

COMPACTION. CONTRACTOR SHALL PREPARE

SOILS AS NECESSARY TO PROVIDE A STABLE

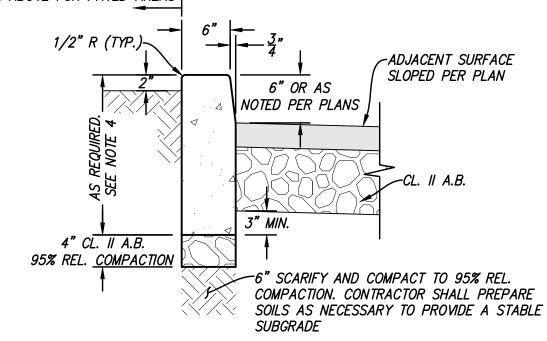
3" MIN.

1. #4 X 12" SLIP DOWELS AND 1/4" EXPANSION JOINTS TO BE PROVIDED 20' ON CENTER.

2. REFER TO PLANS AND GEOTECHNICAL REPORT FOR ADJACENT PAVEMENT SECTIONS.

3. TOTAL CURB HEIGHT IS BASED ON ADJACENT PAVEMENT SECTION PLUS 3" BELOW FULL

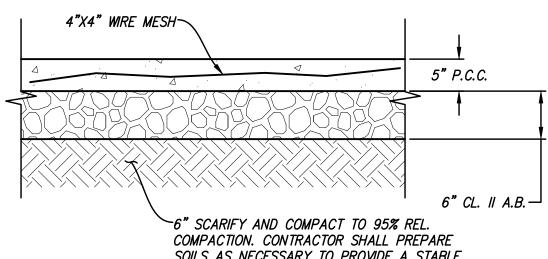
MATERIAL FOR EXPANSION JOINTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM



1. ALL EXPOSED CONCRETE EDGES (HORIZONTAL AND VERTICAL) SHALL BE 1/2" RADIUS 2. #4 X 12" SLIP DOWELS AND 1/4" EXPANSION JOINTS TO BE PROVIDED 20' ON CENTER ALONG THE LENGTH OF CURB. MATERIAL FOR EXPANSION JOINTS SHALL CONFORM TO

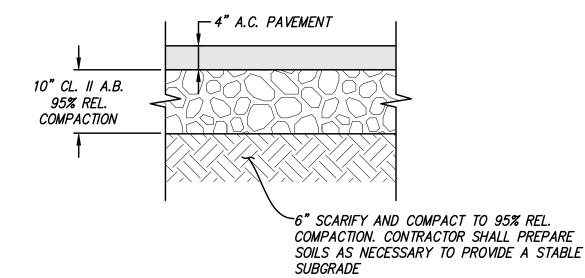
THE REQUIREMENTS OF ASTM DESIGNATION D 1751.

REFER TO PLANS AND GEOTECHNICAL REPORT FOR ADJACENT PAVEMENT SECTIONS. 4. TOTAL CURB HEIGHT IS BASED ON ADJACENT PAVEMENT SECTION, PLUS CURB HEIGHT PER PLAN, PLUS 3" BELOW FULL PAVEMENT SECTION (14" MINIMUM).



1. SEE LANDSCAPE PLANS FOR SCORING PATTERN AND COLOR. 2. SUBGRADE AND AGGREGATE BASE SHALL BE COMPACTED PER GEOTECHNICAL RECOMMENDATIONS. IF GEOTECHNICAL REPORT DOES NOT SPECIFY BASE ROCK UNDER PEDESTRIAN WALKWAYS, CONTRACT CAN OMIT.

CONCRETE SIDEWALK



1. REFER TO THE GEOTECHNICAL REPORT FOR TI AND R-VALUES AND SUBGRADE AND

ASPHALT PARKING PAVEMENT SECTION

SIDEWALK/PATHWAY—

NOT TO EXCEED

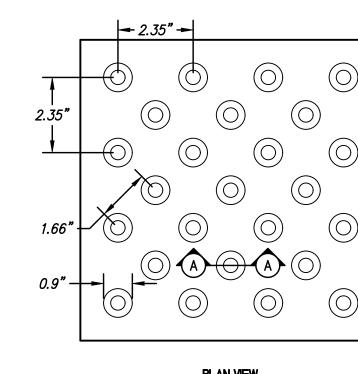
1. DETECTABLE WARNING SURFACE (TRUNCATED DOMES)
PER DETAIL 9 THIS SHEET

STRAIGHT ACCESSIBLE RAMP

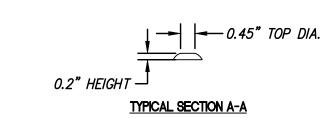
2. GROOVES IF REQUIRED BY LOCAL AUTHORITY

2% IN ANY DIRECTION

**GROOVES** 



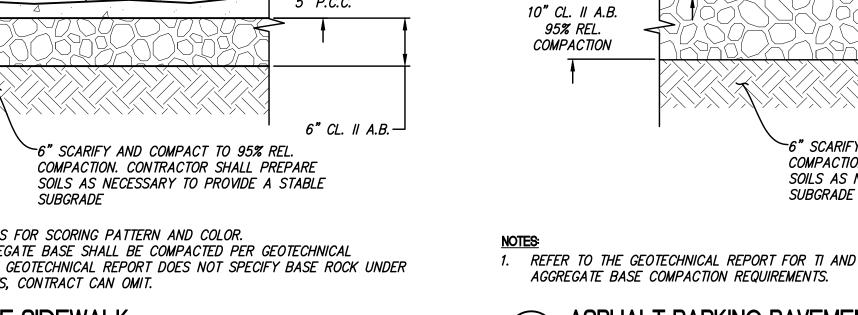
<u>Plan view</u>



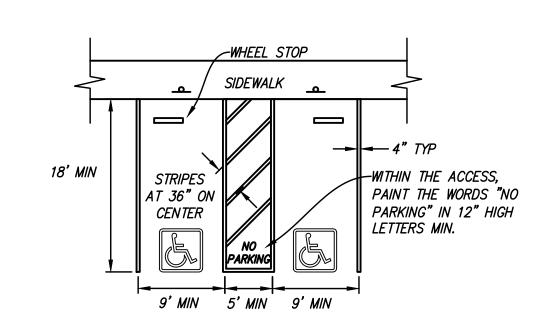
1. TRUNCATED DOMES MUST BE A MINIMUM OF 3' WIDE IN THE DIRECTION OF TRAVEL AND THE FULL WIDTH OF THE ADA PATH OF TRAVEL.

2. DETECTABLE WARNING SURFACE SHALL MEET THE REQUIREMENTS LISTED IN THE CBC

- CHAPTER 11B-705. 3. DETECTABLE WARNING SURFACE SHALL BE CONTRASTING COLOR PER CBC 11B-705.1.1.3, OR FEDERAL YELLOW IF REQUIRED BY APPROVING AGENCY.
- 4. DETECTABLE WARNING SURFACE SHALL BE ARMOR-TILE CAST IN PLACE OR MODULAR PAVER UNLESS SUBMITTED AND APPROVED BY ENGINEER.



**SURFACE** 



1. TOW AWAY SIGN REQUIRED AT ALL ENTRANCES. ADDITIONAL SIGN OR LANGUAGE ON ACCESSIBILITY SIGN SHALL READY "MINIMUM FINE \$250" PER 2016 CALIFORNIA BUILDING CODE SECTION 11B-502.6.

ALL PAVEMENT MARKING, STRIPING, AND SIGNAGE MUST COMPLY WITH 2016 CALIFORNIA

FRAME AND GRATE REQUIREMENTS

LOADING REQUIREMENTS

H20 RATED

LIGHT DUTY/NON-TRAFFIC

LIGHT DUTY/NON-TRAFFIC

3" MIN. CLEAR →

SLOPE BOTTOM TOWARD OUTLET

1. T&G JOINT AS REQUIRED FOR STRUCTURES OVER 4'-0" DEEP.

2. FRAME SHALL BE ANCHORED TO CONCRETE PER MANUFACTURER'S SPECIFICATIONS.

CONCRETE SQUARE CATCH BASIN

1'-0"

MIN. GRATE SPACING

REQUIREMENTS 4" CROSS BARS O.C. W/

1 🔏 " BEARING BARS O.C.

1/4" MAX. OPENINGS

4" CROSS BARS O.C. W/

1 3" BEARING BARS O.C.

SLOPE

6 PARALLEL ADA STALLS

CATCH BASIN LOCATION

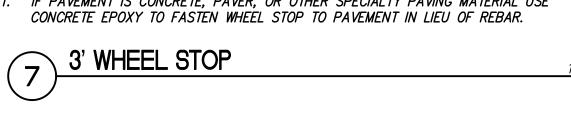
VEHICLE ACCESS ROAD

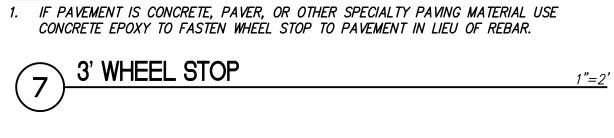
PEDESTRIAN PATH

LANDSCAPE

FRAME AND GRATE SEE TABLE~ ABOVE FOR REQUIREMENTS

BUILDING CODE SECTION 11B-502.6.





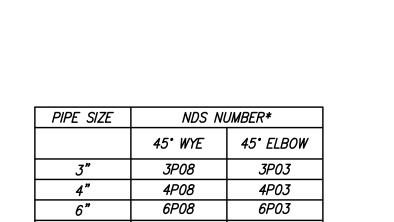
LONG (TYP. 2 PER

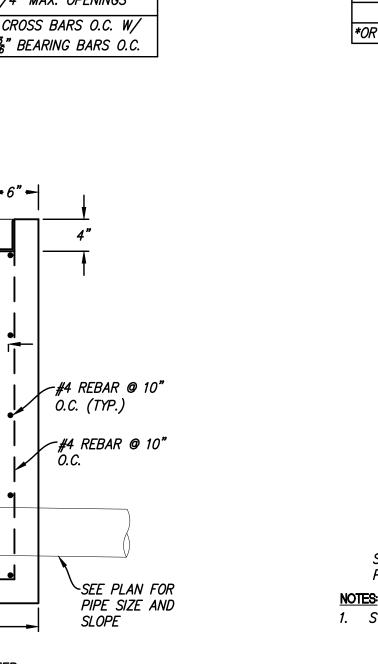
WHEEL STOP)

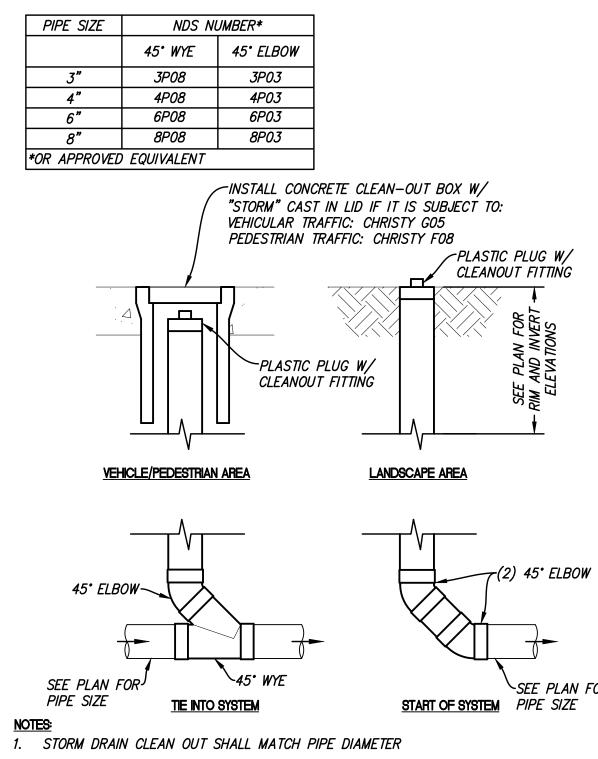
3" ── PRIVE REBAR

FLUSH WITH TOP

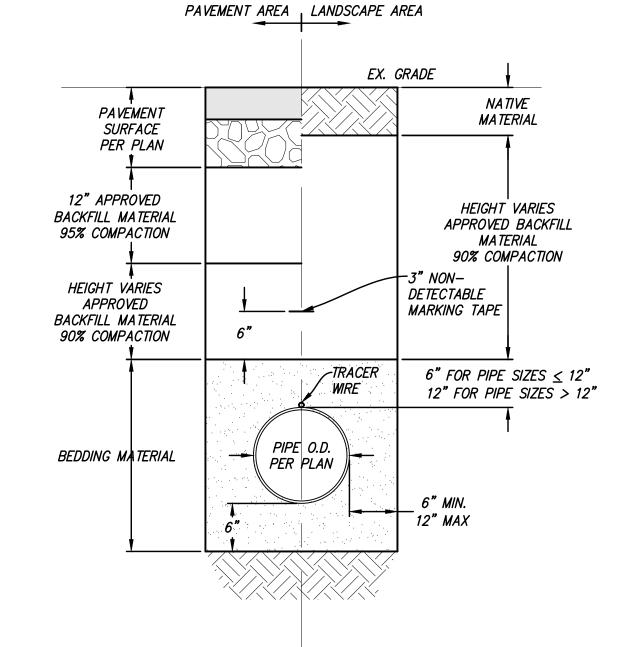
OF WHEEL STOP







STORM DRAIN CLEAN OUT



SHORING TO BE PER CAL/OSHA CONSTRUCTION SAFETY ORDERS. 2. RESTORE ALL PAVEMENT MARKINGS IN-KIND WHERE REMOVED AS PART OF TRENCHING 3. TRENCHING AND BACKFILLING TO FOLLOW GEOTECHNICAL REPORT REQUIREMENTS.

1"=1'

(10) UTILITY TRENCH DETAIL

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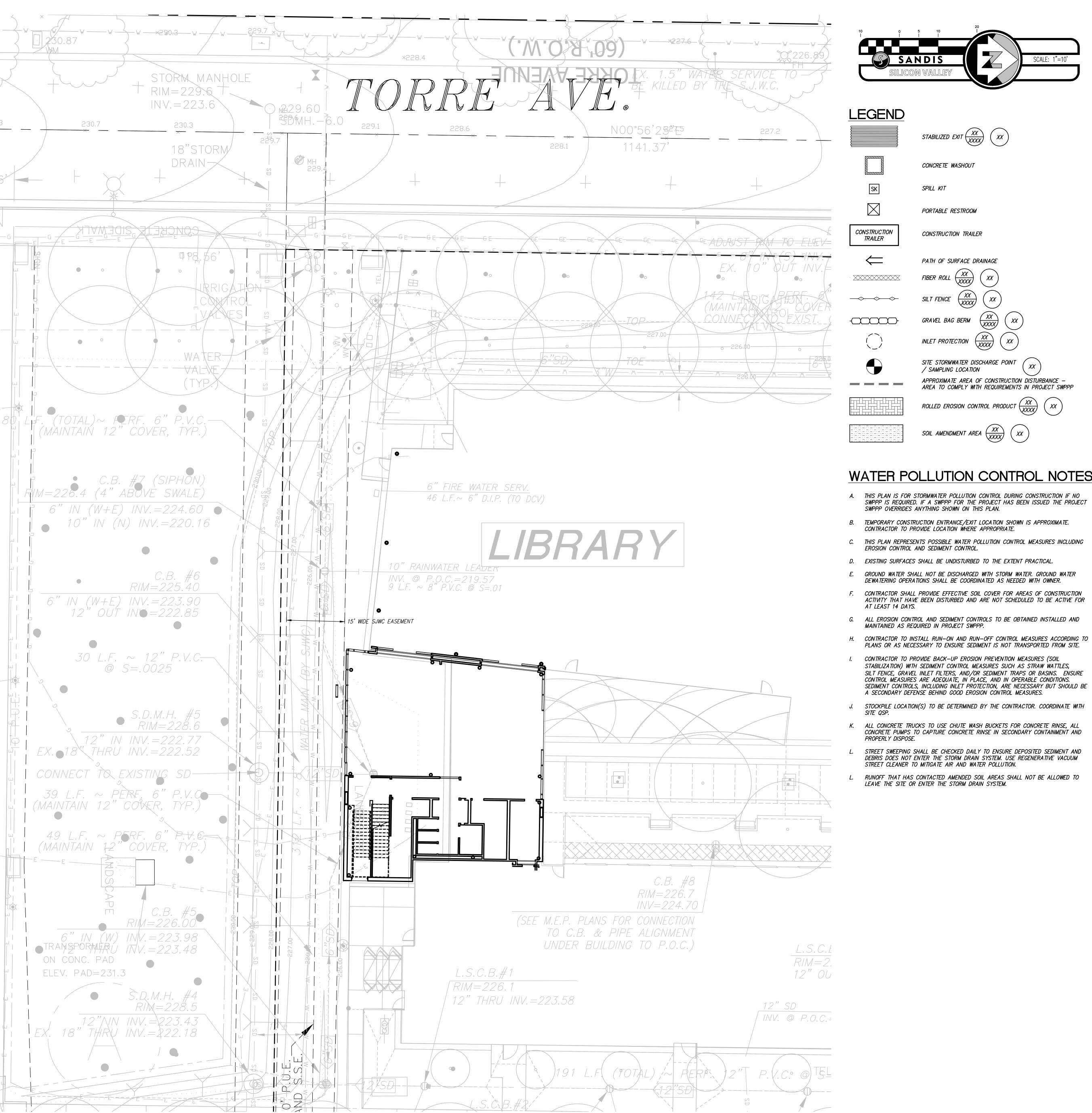
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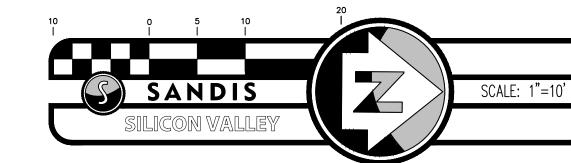
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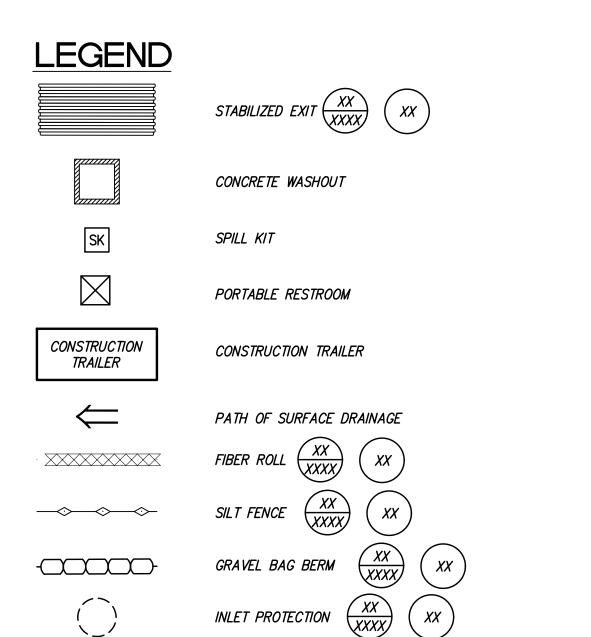
EHDD Job Number 20013

Sheet Title CONSTRUCTION

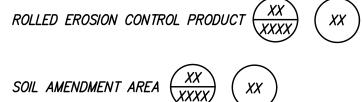
**DETAILS** 







SITE STORMWATER DISCHARGE POINT (XX) / SAMPLING LOCATION APPROXIMATE AREA OF CONSTRUCTION DISTURBANCE — AREA TO COMPLY WITH REQUIREMENTS IN PROJECT SWPPP





- A. THIS PLAN IS FOR STORMWATER POLLUTION CONTROL DURING CONSTRUCTION IF NO SWPPP IS REQUIRED. IF A SWPPP FOR THE PROJECT HAS BEEN ISSUED THE PROJECT SWPPP OVERRIDES ANYTHING SHOWN ON THIS PLAN.
- B. TEMPORARY CONSTRUCTION ENTRANCE/EXIT LOCATION SHOWN IS APPROXIMATE. CONTRACTOR TO PROVIDE LOCATION WHERE APPROPRIATE.
- C. THIS PLAN REPRESENTS POSSIBLE WATER POLLUTION CONTROL MEASURES INCLUDING EROSION CONTROL AND SEDIMENT CONTROL.
- D. EXISTING SURFACES SHALL BE UNDISTURBED TO THE EXTENT PRACTICAL.
- GROUND WATER SHALL NOT BE DISCHARGED WITH STORM WATER. GROUND WATER DEWATERING OPERATIONS SHALL BE COORDINATED AS NEEDED WITH OWNER.
- F. CONTRACTOR SHALL PROVIDE EFFECTIVE SOIL COVER FOR AREAS OF CONSTRUCTION ACTIVITY THAT HAVE BEEN DISTURBED AND ARE NOT SCHEDULED TO BE ACTIVE FOR
- G. ALL EROSION CONTROL AND SEDIMENT CONTROLS TO BE OBTAINED INSTALLED AND
- MAINTAINED AS REQUIRED IN PROJECT SWPPP.
- PLANS OR AS NECESSARY TO ENSURE SEDIMENT IS NOT TRANSPORTED FROM SITE. CONTRACTOR TO PROVIDE BACK-UP EROSION PREVENTION MEASURES (SOIL STABILIZATION) WITH SEDIMENT CONTROL MEASURES SUCH AS STRAW WATTLES, SILT FENCE, GRAVEL INLET FILTERS, AND/OR SEDIMENT TRAPS OR BASINS. ENSURE CONTROL MEASURES ARE ADEQUATE, IN PLACE, AND IN OPERABLE CONDITIONS.
- STOCKPILE LOCATION(S) TO BE DETERMINED BY THE CONTRACTOR. COORDINATE WITH
- K. ALL CONCRETE TRUCKS TO USE CHUTE WASH BUCKETS FOR CONCRETE RINSE, ALL CONCRETE PUMPS TO CAPTURE CONCRETE RINSE IN SECONDARY CONTAINMENT AND
- STREET SWEEPING SHALL BE CHECKED DAILY TO ENSURE DEPOSITED SEDIMENT AND DEBRIS DOES NOT ENTER THE STORM DRAIN SYSTEM. USE REGENERATIVE VACUUM STREET CLEANER TO MITIGATE AIR AND WATER POLLUTION.
- RUNOFF THAT HAS CONTACTED AMENDED SOIL AREAS SHALL NOT BE ALLOWED TO LEAVE THE SITE OR ENTER THE STORM DRAIN SYSTEM.

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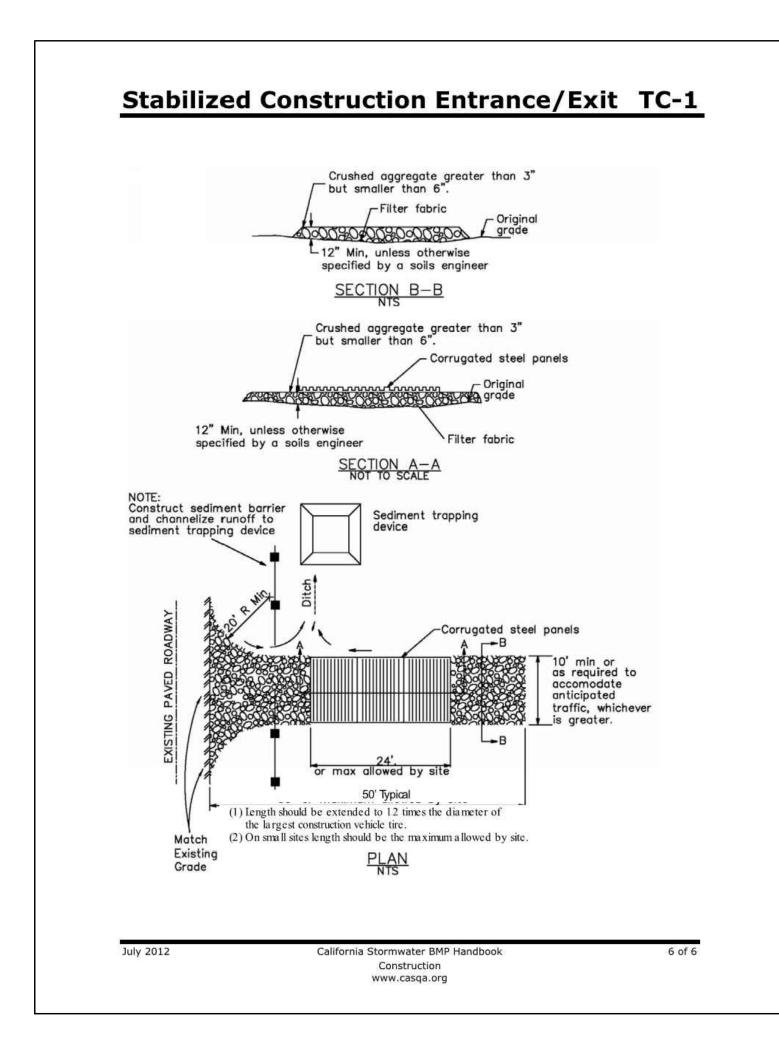
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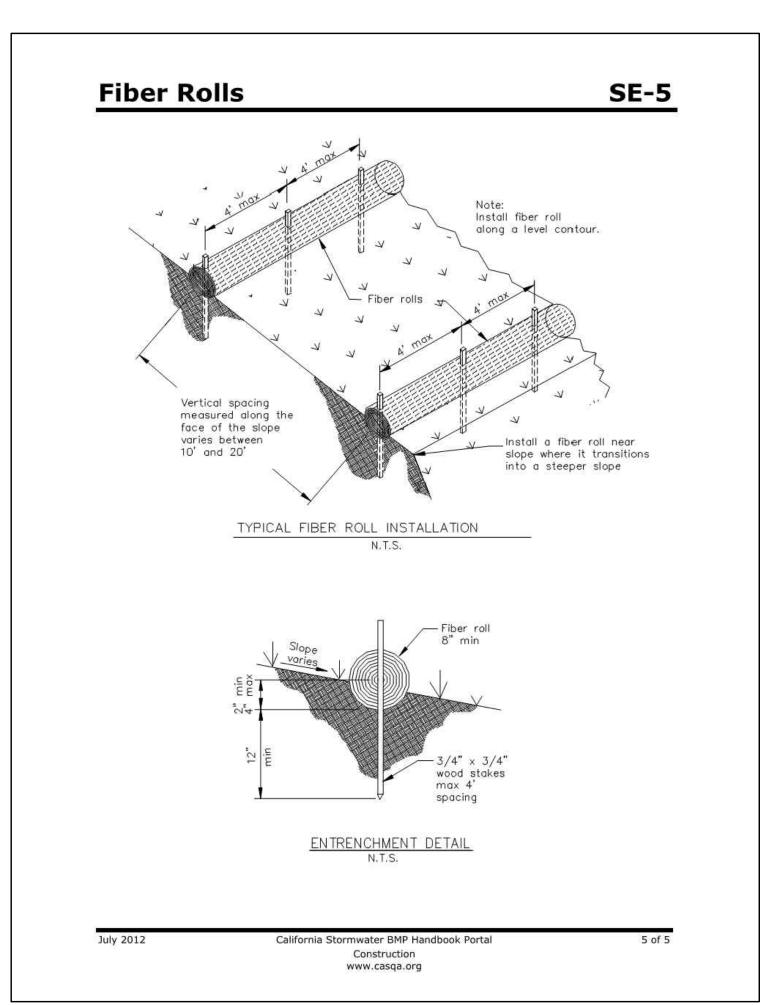
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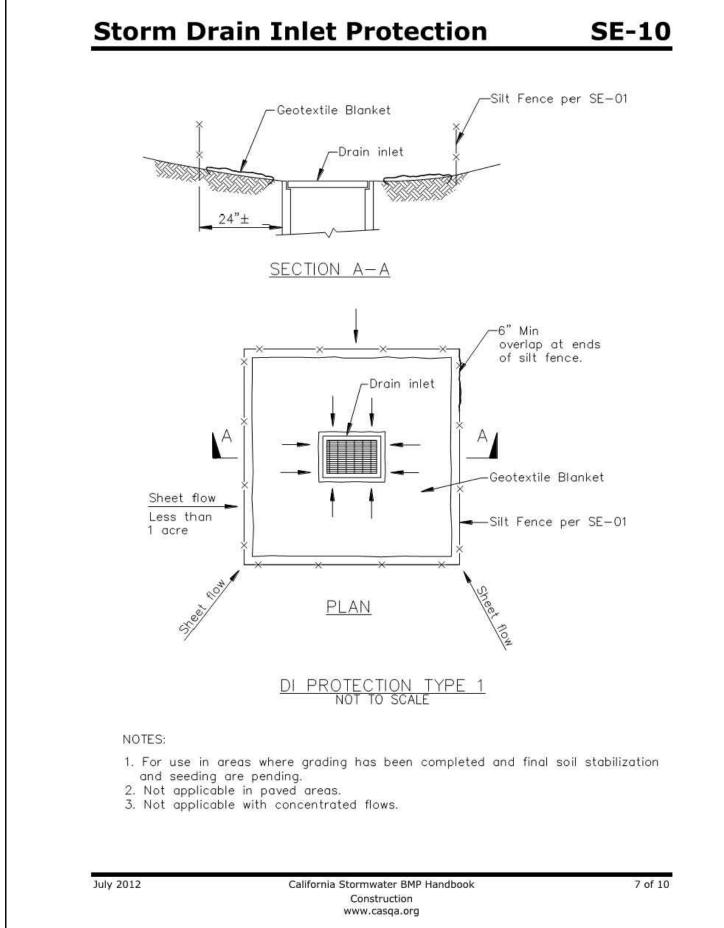
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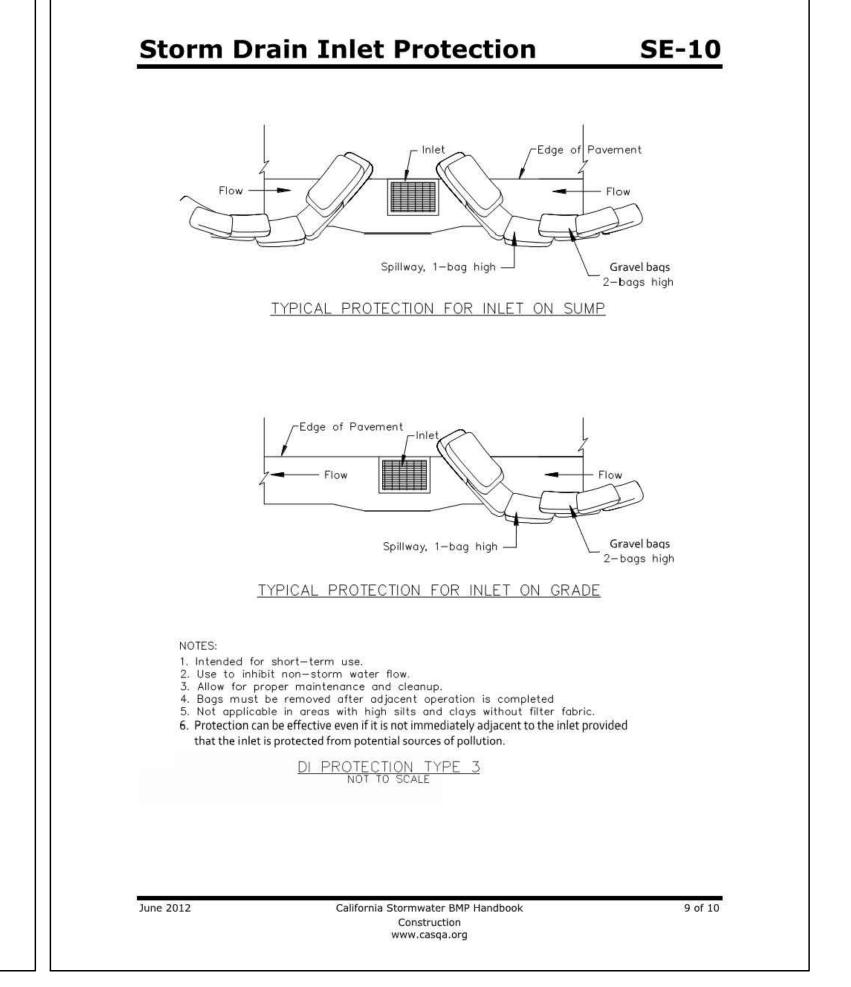
Sheet Title **EROSION** 

**CONTROL PLAN** 











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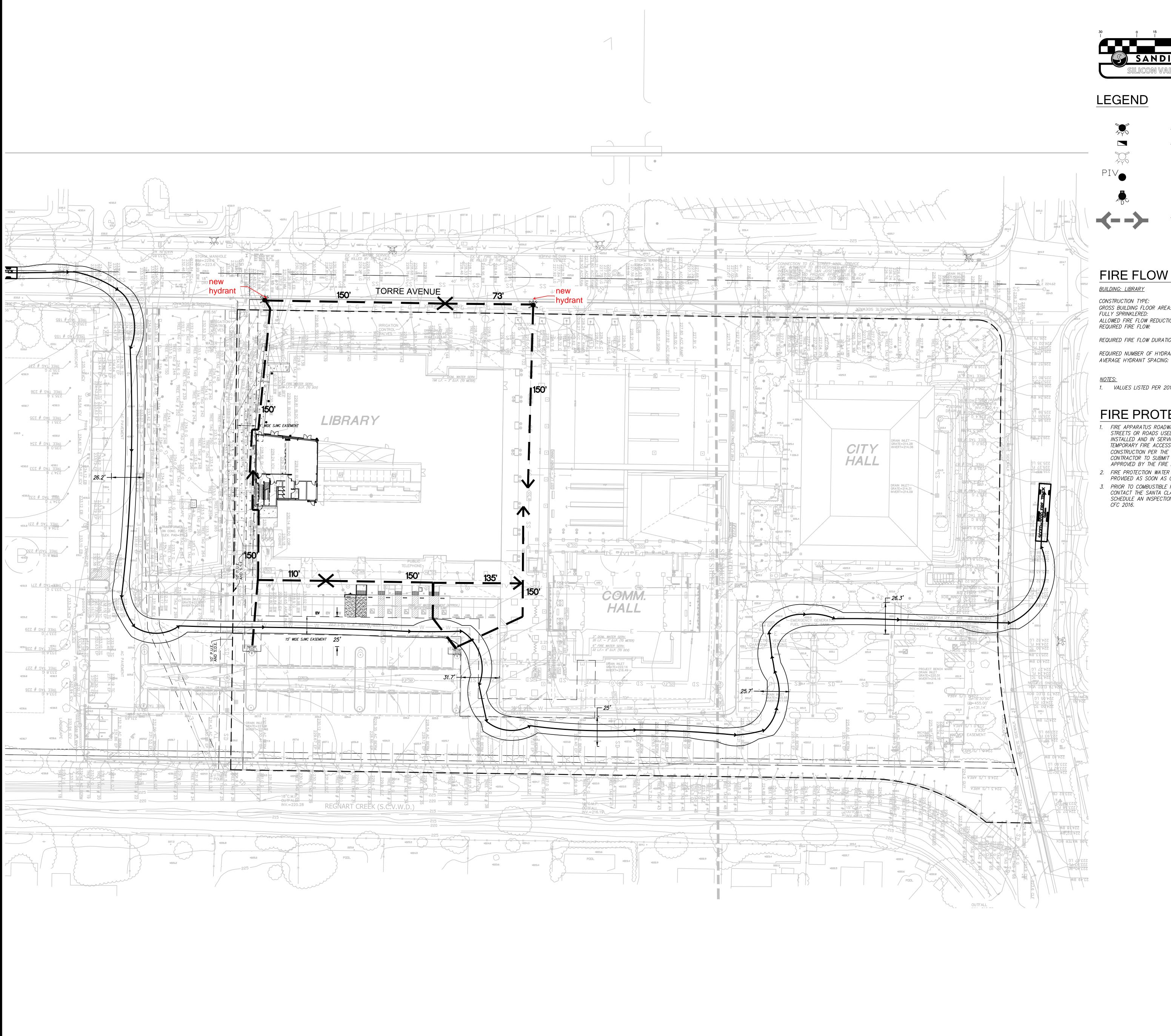
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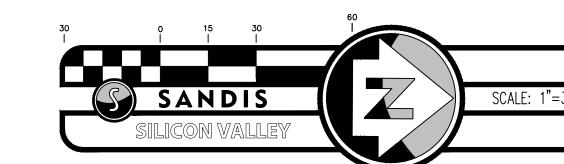
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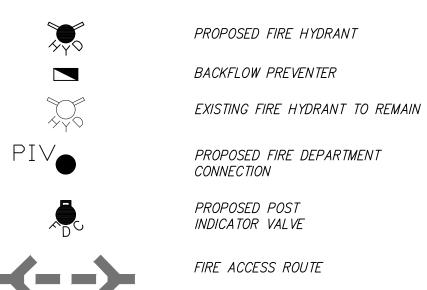
EROSION
CONTROL
DETAILS

Sheet Number

2-8.1







## FIRE FLOW REQUIREMENTS

BUILDING: LIBRARY

S BUILDING FLOOR AREA:	58,716 SF (EXISTING LIBRARY	' AND EXPANSION)
Y SPRINKLERED:	YES	,
WED FIRE FLOW REDUCTION	<i>75%</i>	(CFC TABLE B105.2)
IIRED FIRE FLOW:	3500*0.25=875 GPM GPM	· ·
	1,500 MIN	(CFC TABLE B105.1)
IIRED FIRE FLOW DURATION:	3 HR	(CFC TABLE B105.1)
		B105.2)
IIRED NUMBER OF HYDRANTS:	1	(CFC TABLE C102.1)
=		

1. VALUES LISTED PER 2016 CALIFORNIA FIRE CODE APPENDIX B AND C.

## FIRE PROTECTION NOTES

1. FIRE APPARATUS ROADWAYS, INCLUDING PULIC OR PRIVATE INSTALLED AND IN SERVICE PRIOR TO BUILDING CONSTRUCTION, OR CONTRACTOR TO SUBMIT A CONSTRUCTION LOGISTICS PLAN TO BE

FIRE PROTECTION WATER SERVING ALL HYDRANTS SHALL BE PROVIDED AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON SITE. PRIOR TO COMBUSTIBLE MATERIAL ARRIVING ON THE SITE, CONTACT THE SANTA CLARA COUNTY FIRE DEPARTMENT TO SCHEDULE AN INSPECTION OF ROADWAYS AND FIRE HYDRANTS.

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(CFC TABLE B105.2)

B105.2) (CFC TABLE C102.1) (CFC TABLE C102.1)

(CFC TABLE B105.1(2)) (CFC TABLE B105.1(2) &

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Sheet Title FIRE ACCESS **PLAN** 

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Sheet Title
SITE PLAN

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SITE PLAN 
CONSTRUCTION

LOGISTICS

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A0.12

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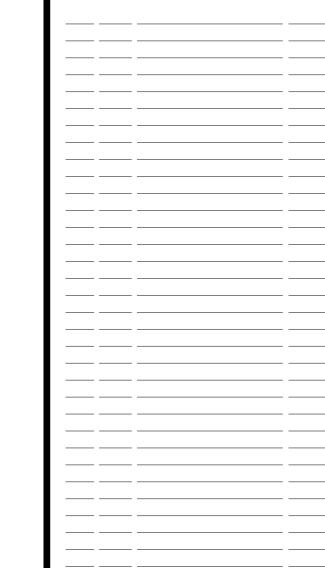
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EHDD Job Number 20013

Sheet Title

LEVEL 1 
DEMOLITION PLAN

Sheet Number

A1.01

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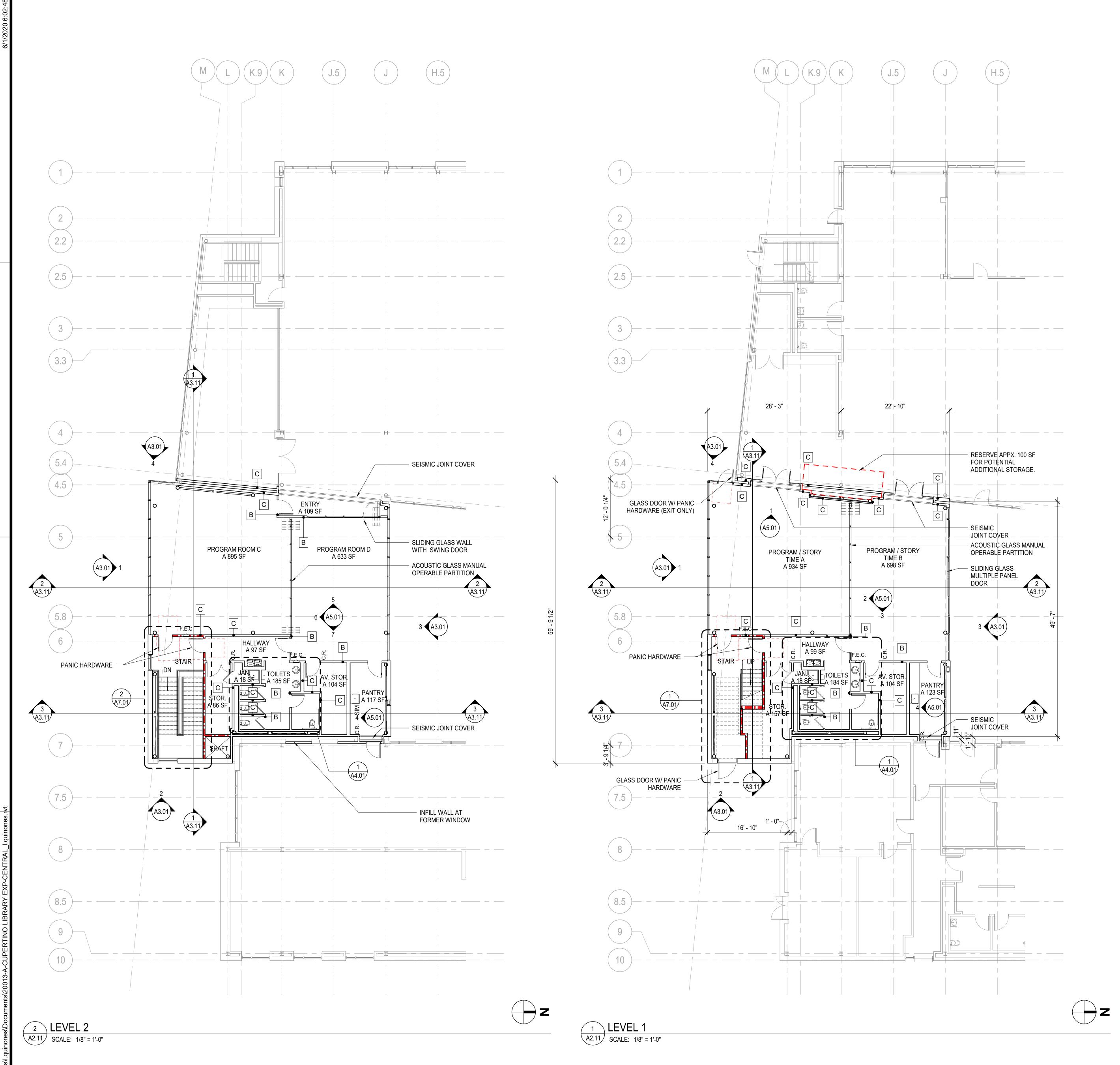
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Sheet Title

LEVEL 2 DEMOLITION PLAN

Sheet Number

A1.02



**FLOOR PLAN NOTES** 

FLOOR PLAN LEGEND

REFER TO SHEET G3.01 FOR ACCESSIBLE MOUNTING HEIGHTS AND DIAGRAMS.
 REFER TO SPECIFICATIONS FOR STAIR AND RAILING TYPES.
 ALL DOORS INTO PROGRAM ROOMS TO HAVE SOUND GASKETS SEE SHEET A9.01.
 REFER TO ACOUSTICAL NARRATIVE FOR MORE INFORMATION.
 REFER TO SHEET A9.01 FOR TYPICAL ACOUSTIC INTERIOR DETAILS.

EXISTING TO REMAIN

1-HR FIRE BARRIER

CARD READER ACCESS

NEW PARTITION AND DOOR

SHAFT OR OPENING IN FLOOR SLAB

RECESSED FIRE EXTINGUISHER CABINET

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WALL TYPES SCHEDULE

REFER TO SHEET A9.01 FOR WALL TYPE DETAILS.

B FULL HEIGHT 42 STC

C FULL HEIGHT 47 STC

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LEVEL 1 & 2 
FLOOR PLANS

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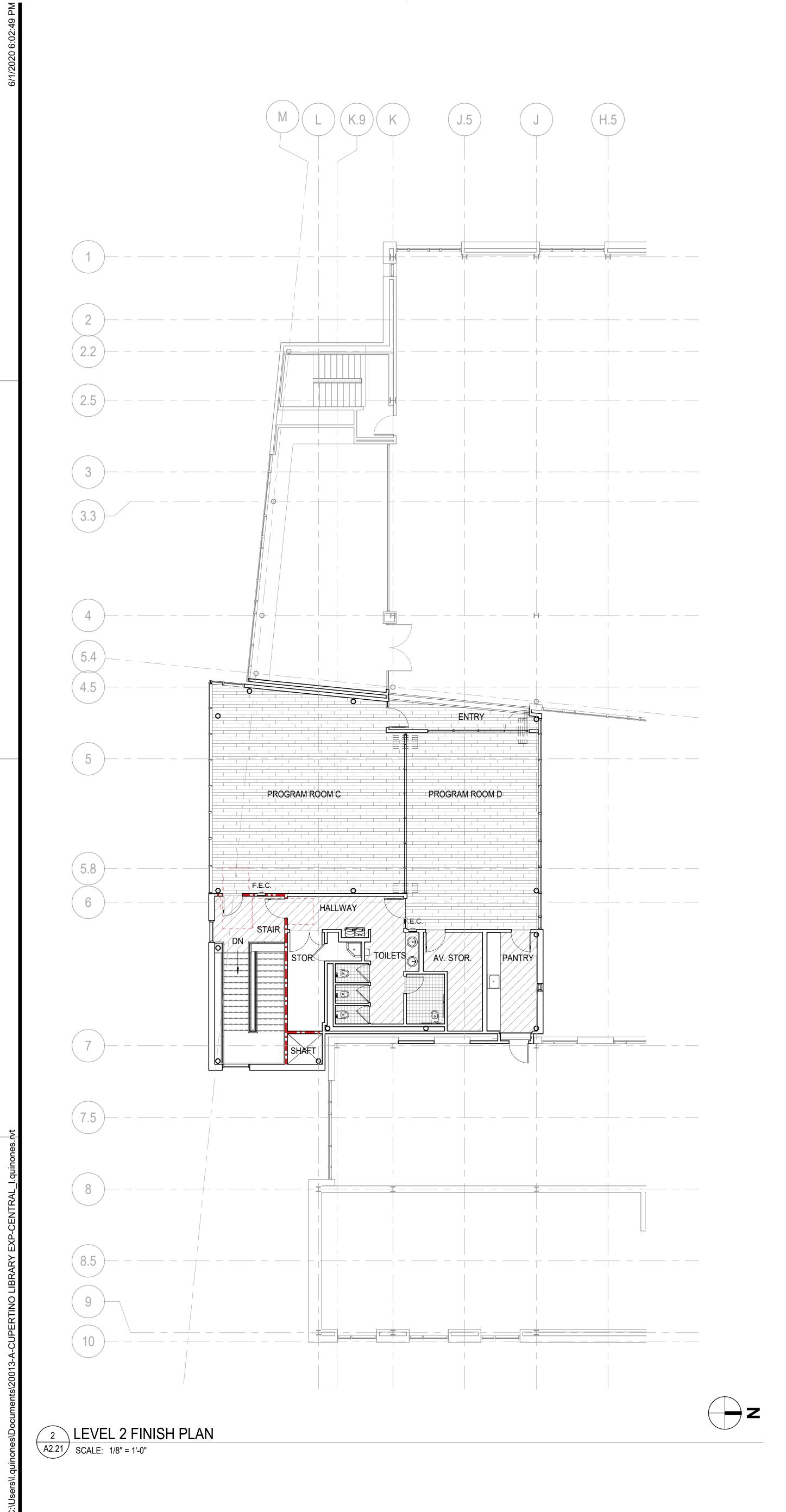
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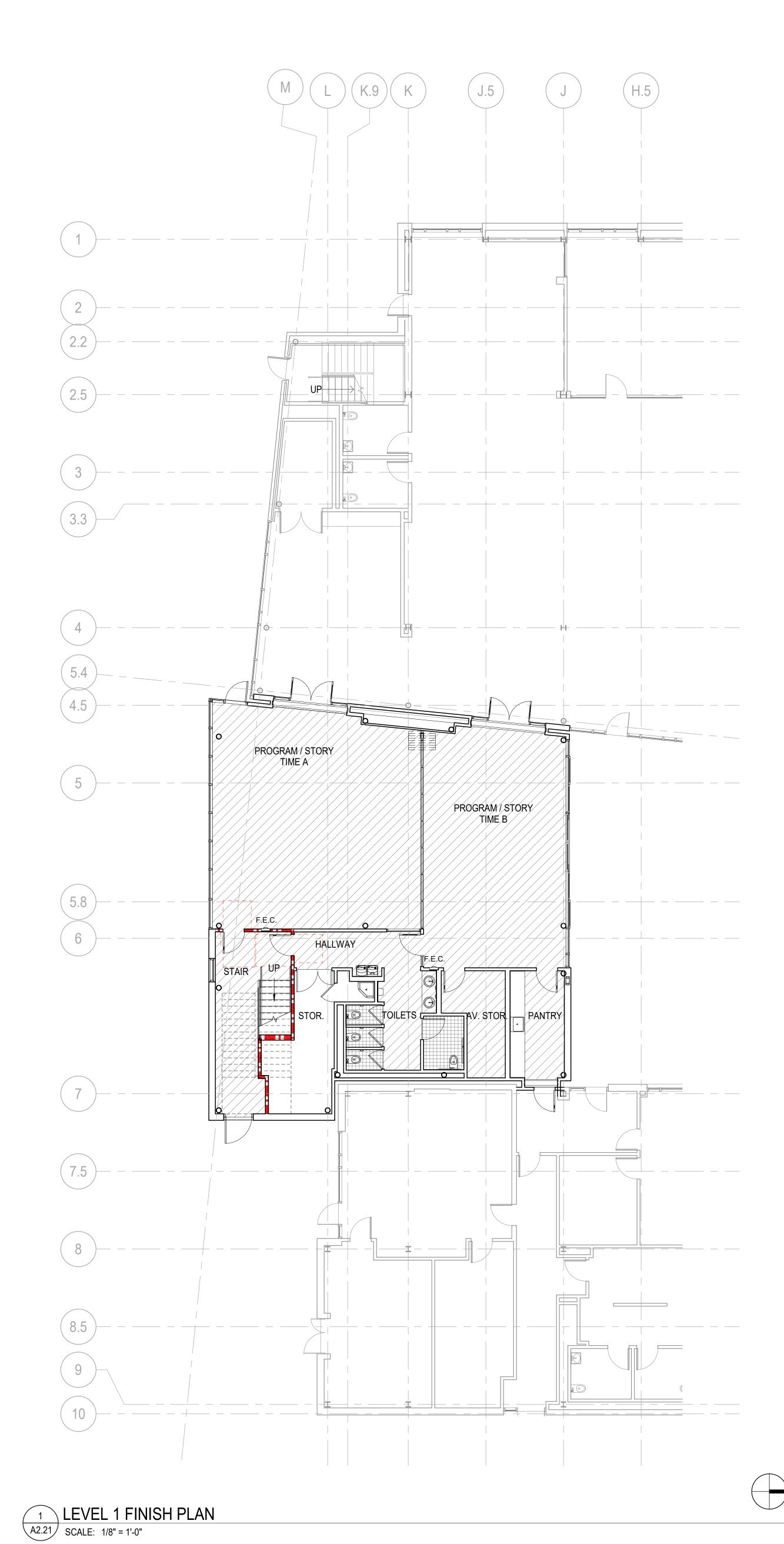
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Sheet Title
ROOF PLAN

Sheet Number

A2.12



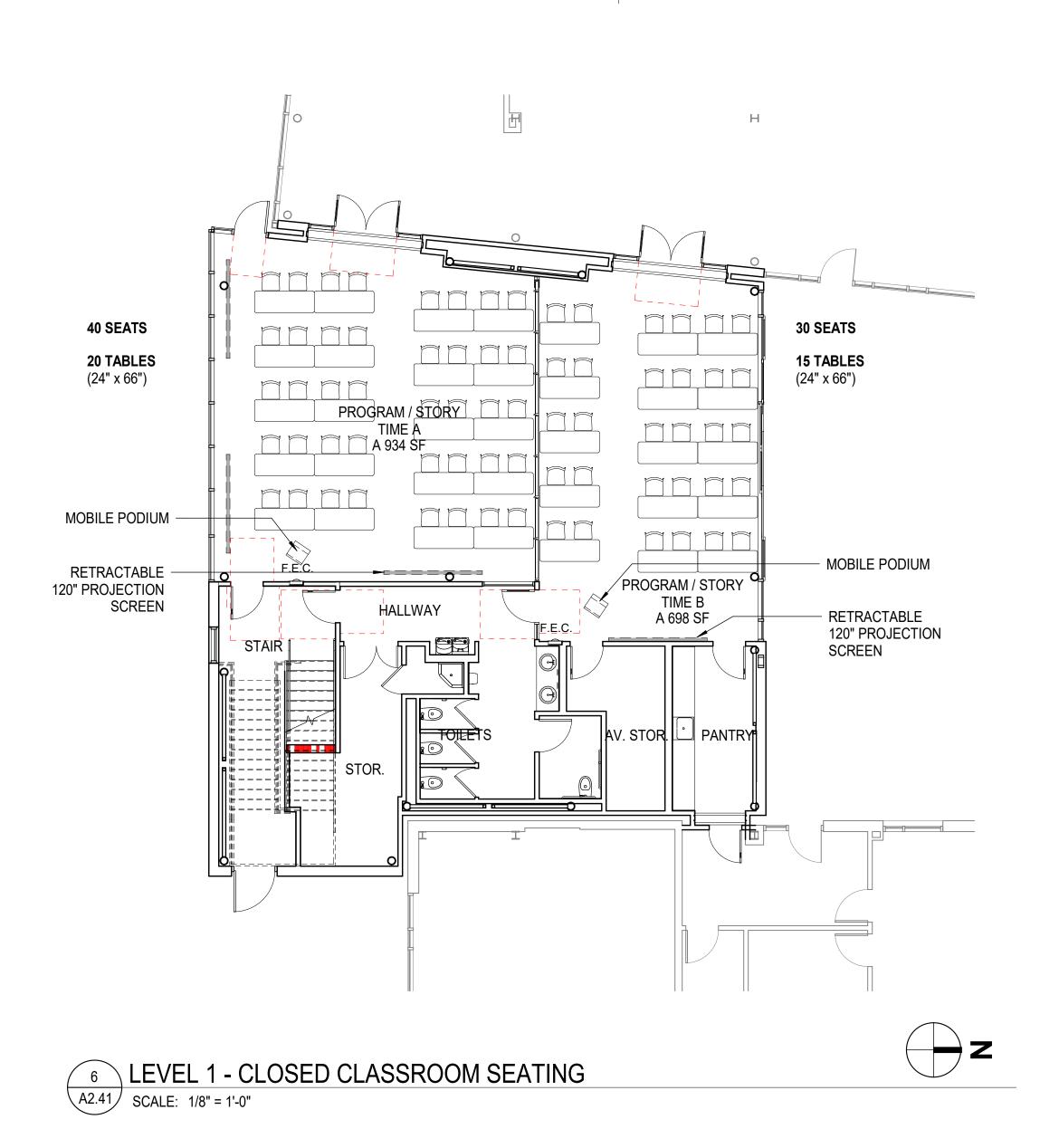


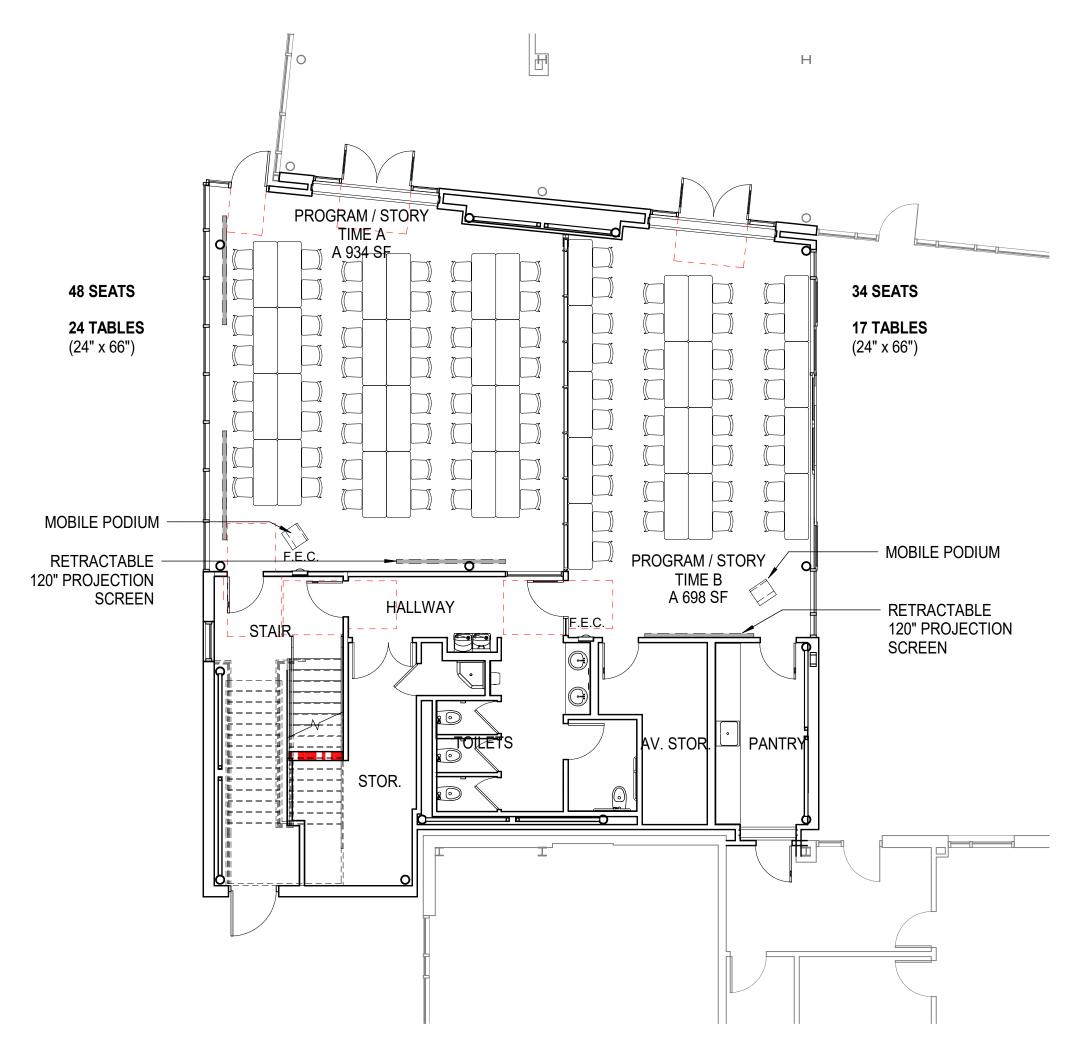
**CUPERTINO** FINISH PLAN NOTES **PUBLIC LIBRARY** 1. REFER TO SPECIFICATIONS FOR FINISH MATERIAL INFORMATION
2. REFER TO SHEET A6.01 FOR CEILING FINISHES
3. WHITE WALL PAINT, TYPICAL
4. GREY WALL BASE, TYPICAL

4. GREY WALL BASE, TYPICAL **EXPANSION** 10800 TORRE AVENUE CUPERTINO, CA 95014 5. ALL EXPOSED STEEL TO BE PAINTED TO MATCH EXISTING BUILDING EXPOSED STRUCTURE 6. REFER TO INTERIOR ELEVATIONS A5.01 FOR MORE INFORMATION PIER 1, BAY 2 THE EMBARCADERO SAN FRANCISCO, CA 94111 INFO@EHDD.COM +1 415-285-9193 FINISH PLAN LEGEND Consultant SHEE RUBBER FLOORING CARPET TILE 6" X 6" PORCELAIN TILE SEALED CONCRETE BRIDGING DOCUMENTS 100% SD 06.01.2020 Revisions and Description Date Drawn by **Author** EHDD Job Number 20013 Sheet Title

**LEVEL 1 & 2 -**

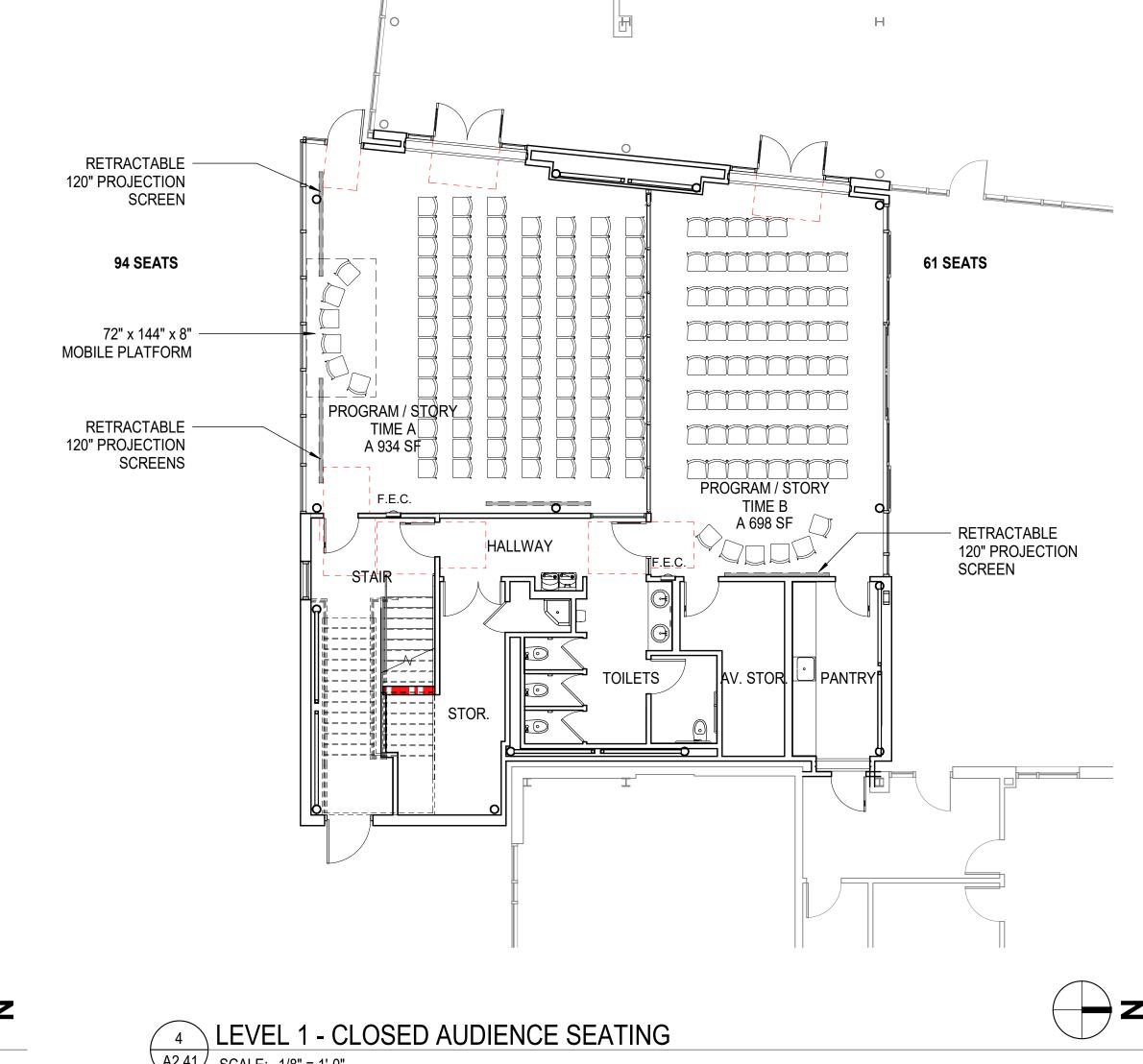
**FINISH PLAN** 

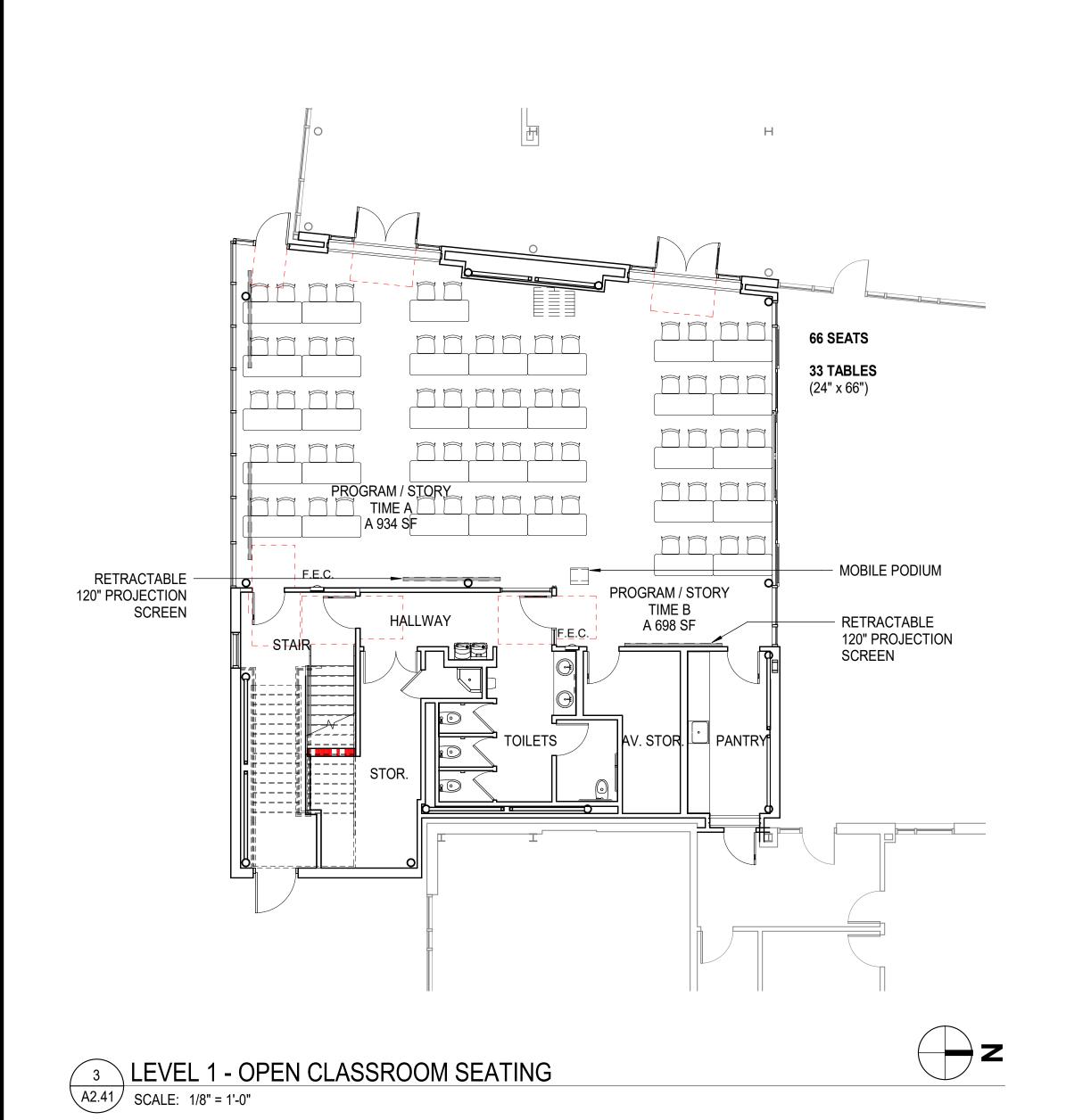


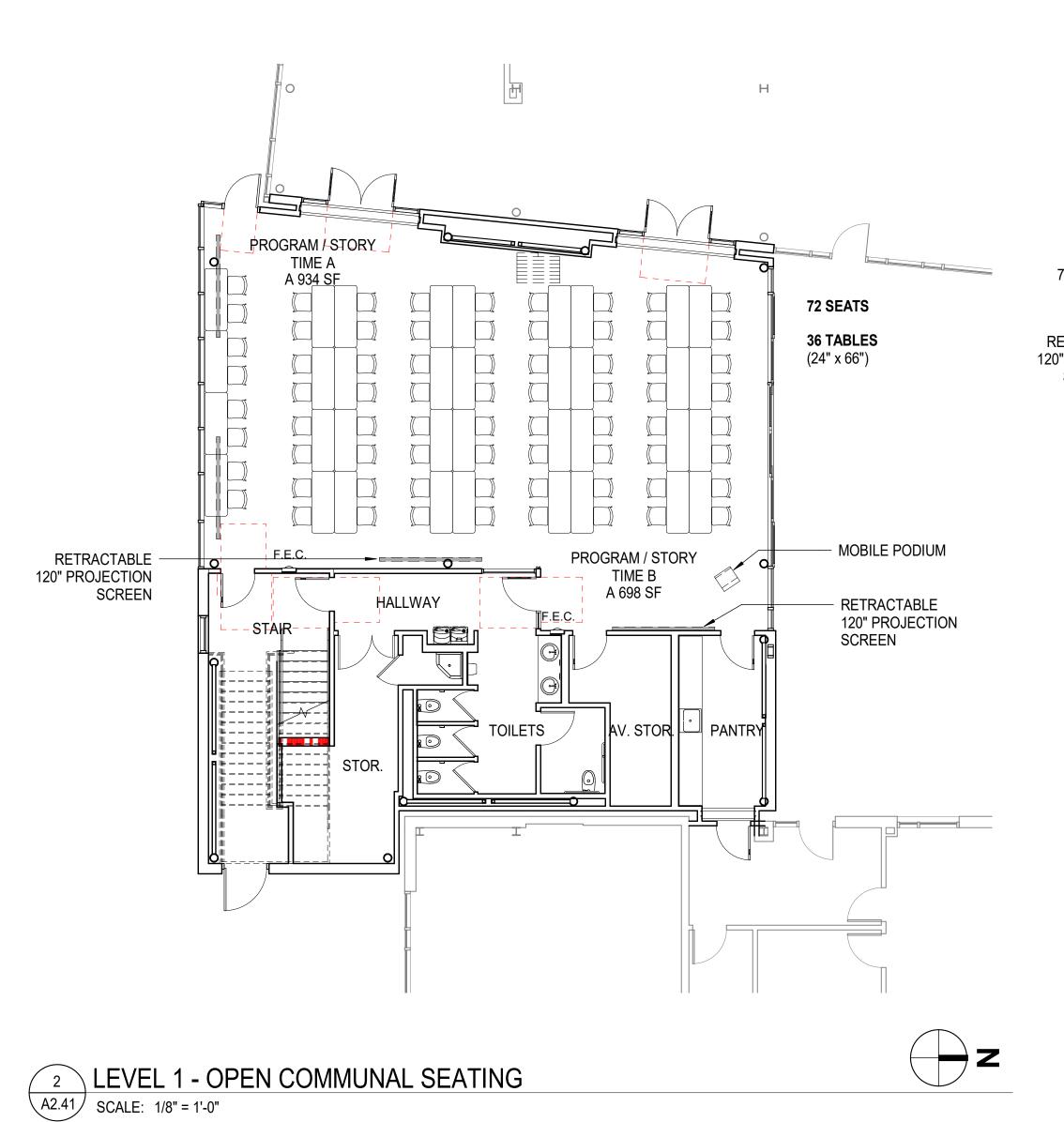


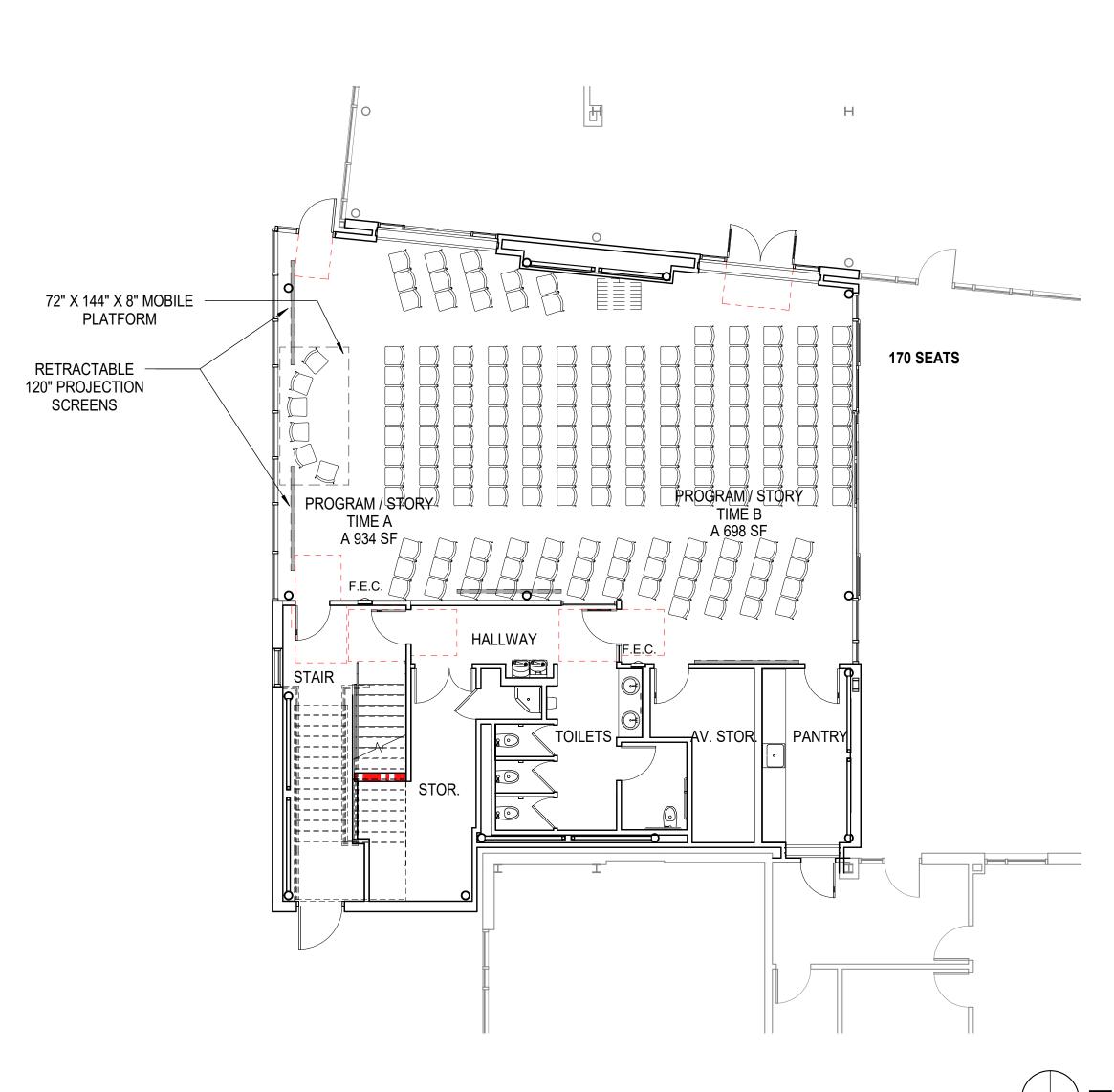
5 LEVEL 1 - CLOSED COMMUNAL SEATING

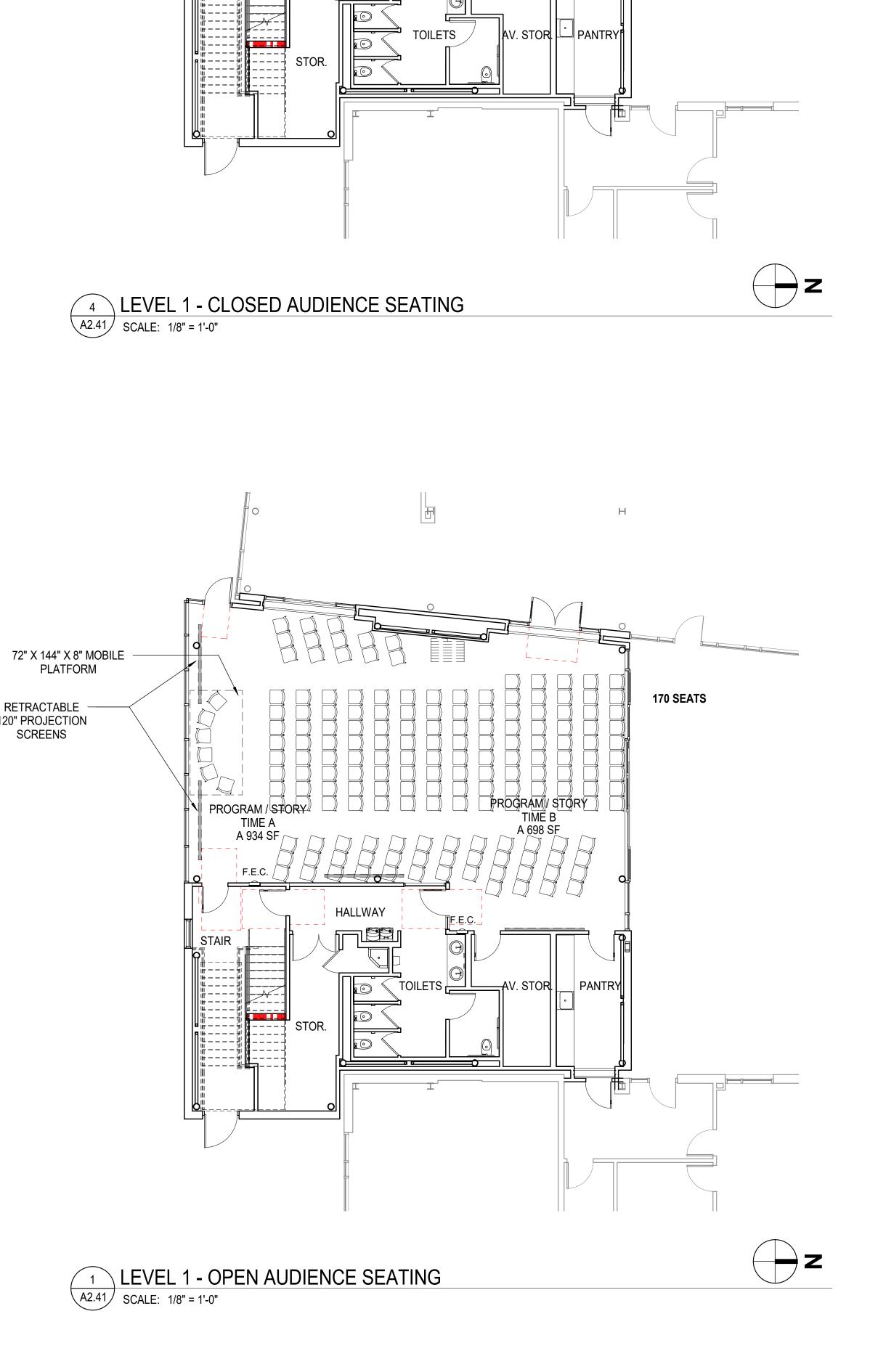
A2.41 SCALE: 1/8" = 1'-0"











EHDD Job Number 20013 Sheet Title LEVEL 1 -**FURNITURE PLANS** 

Scale 1/8" = 1'-0"

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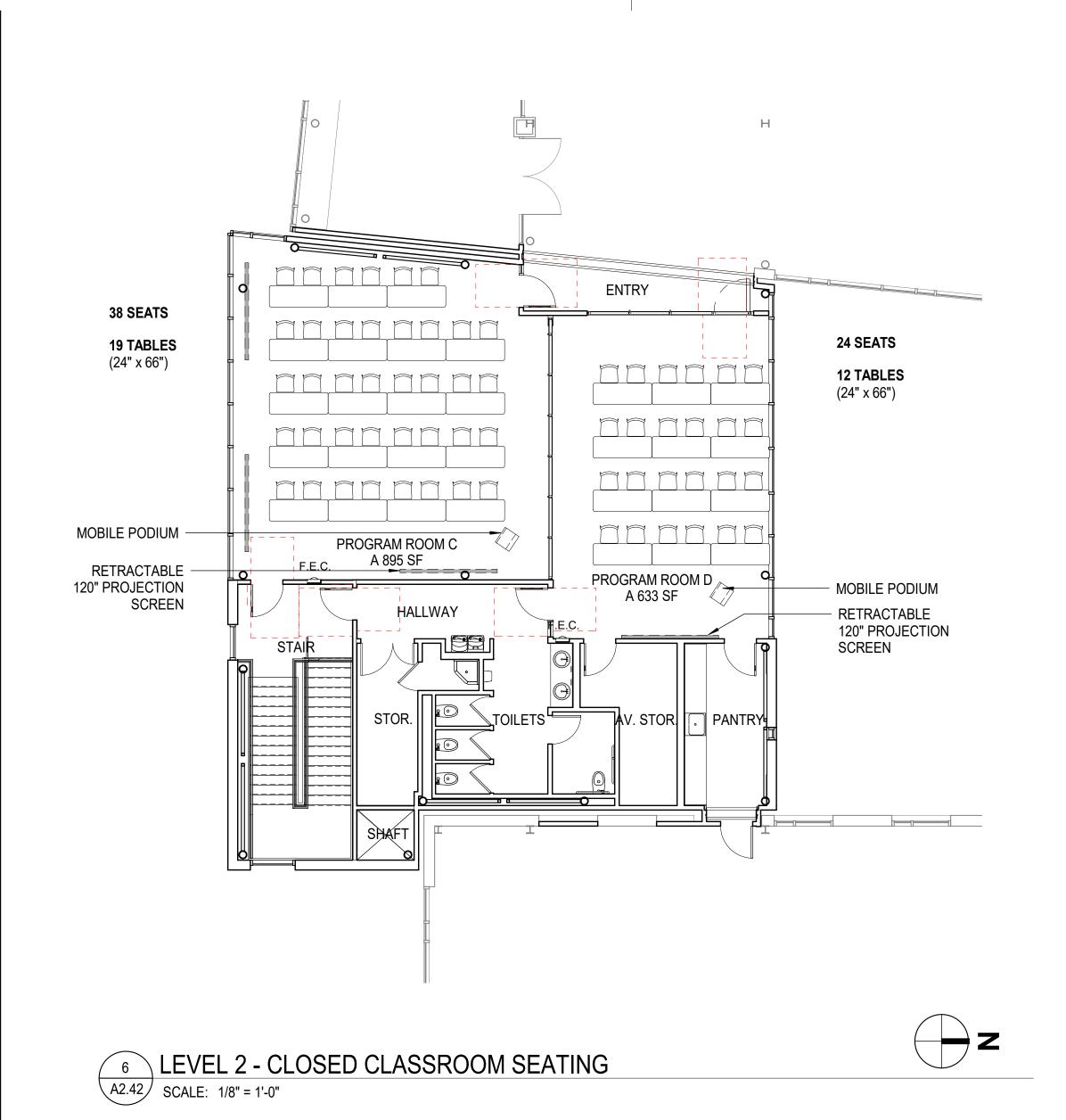
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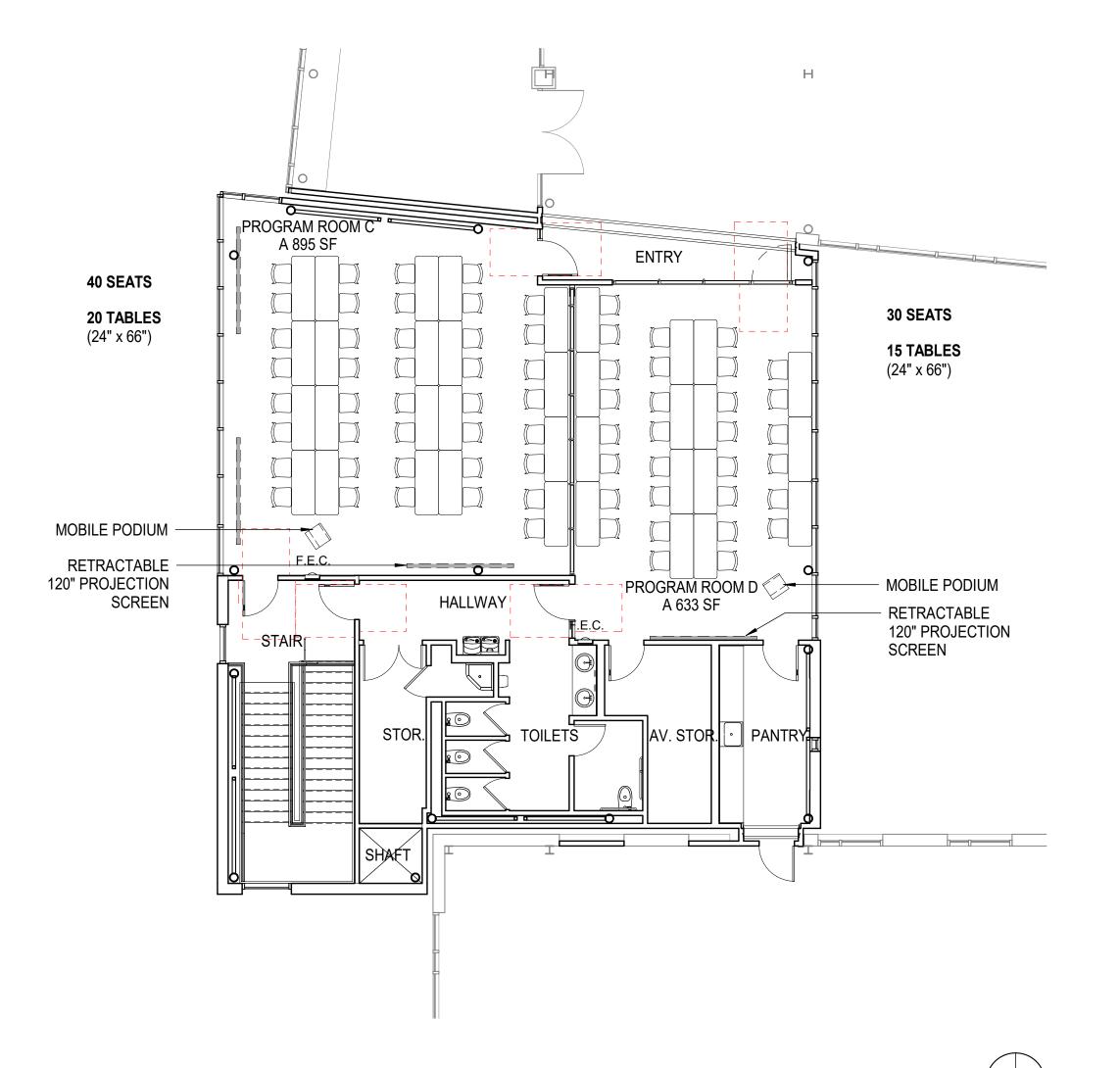
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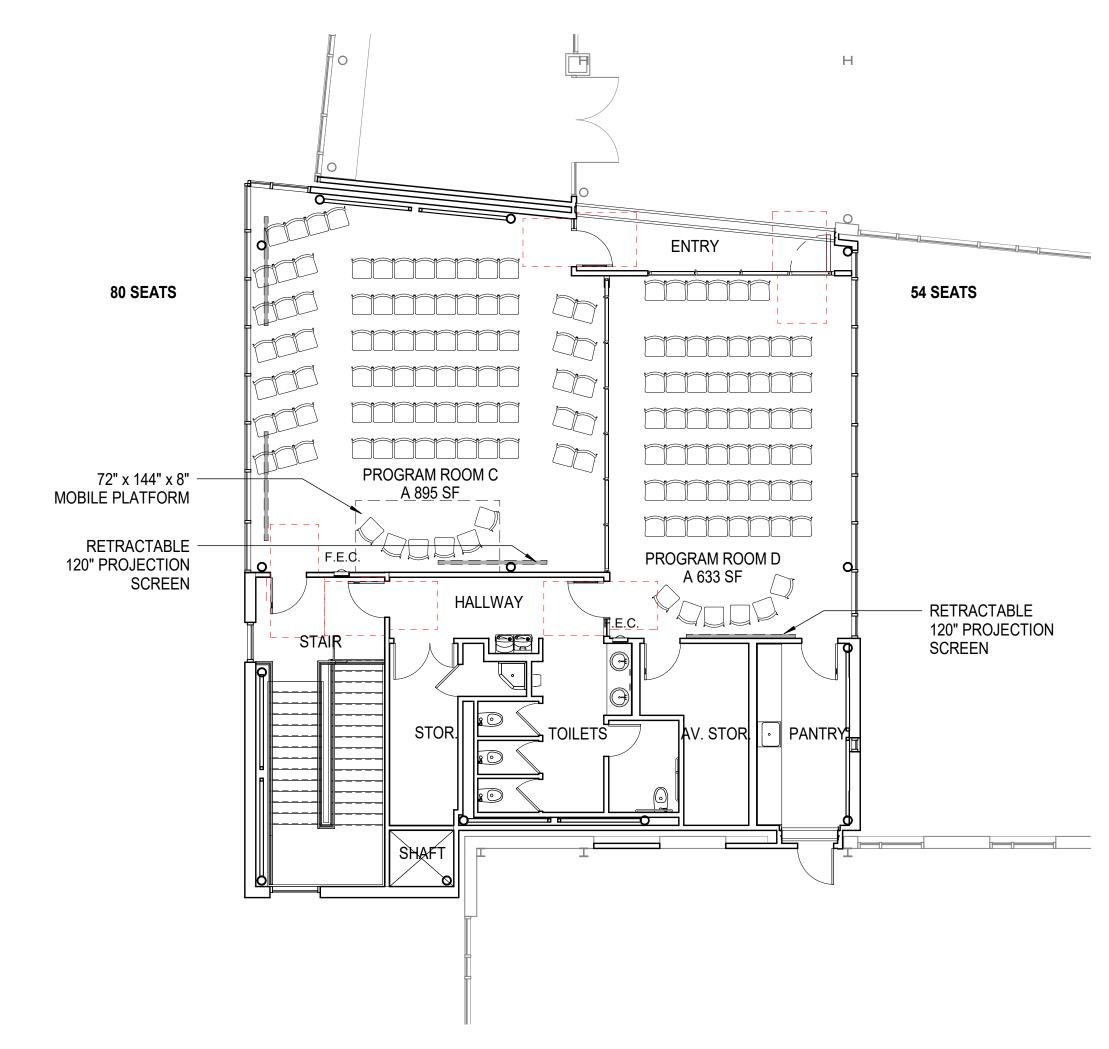
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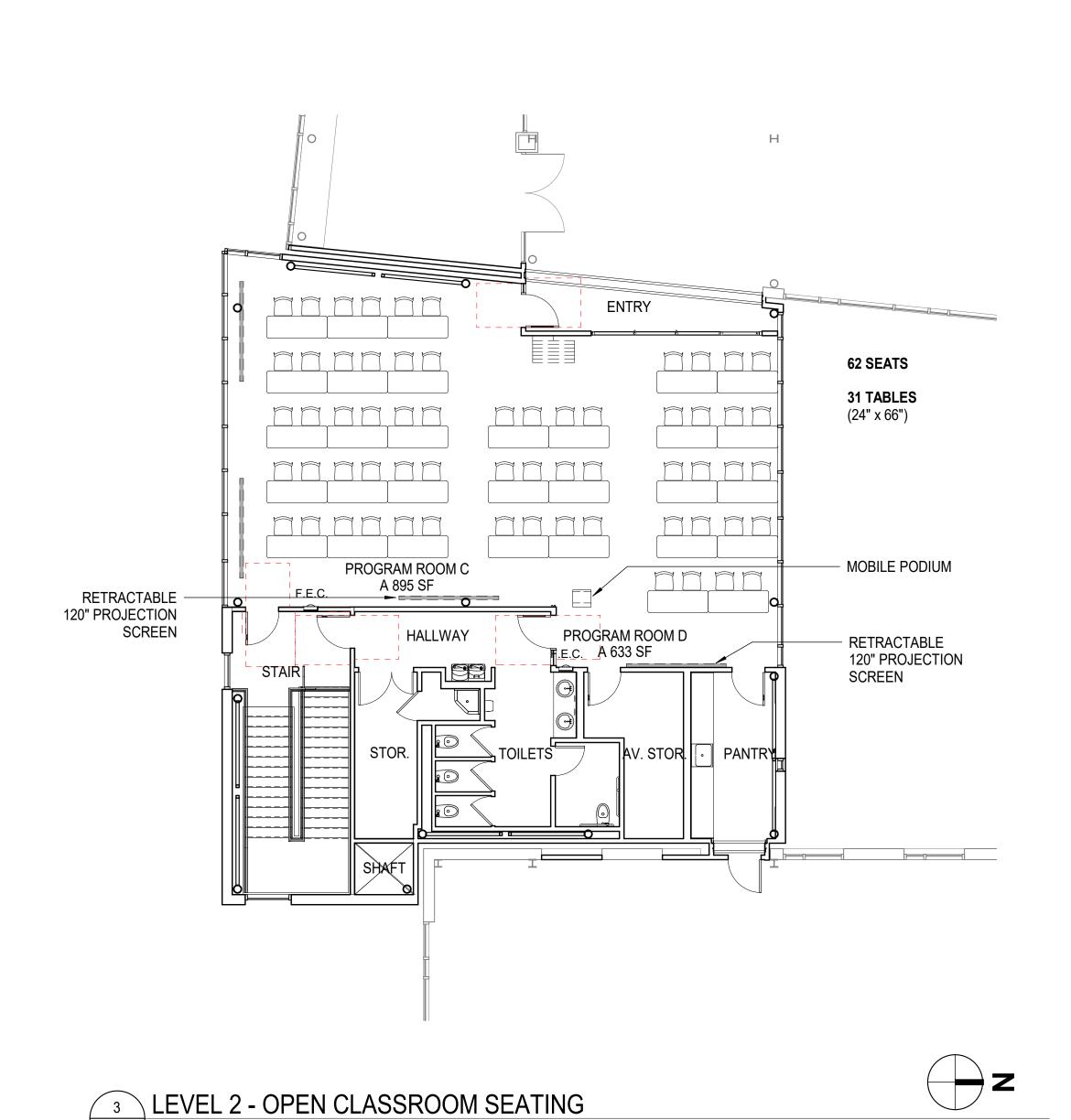




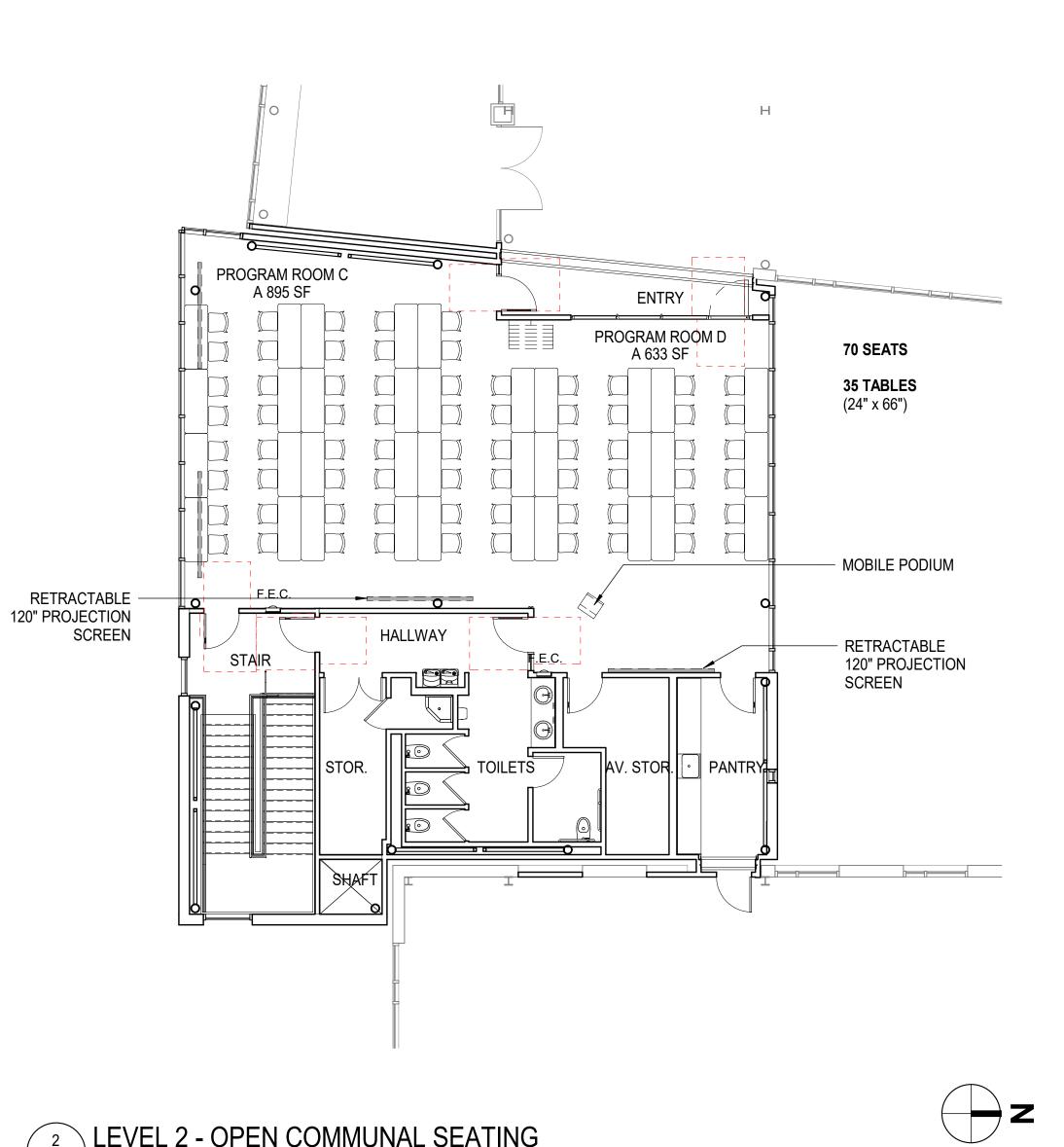
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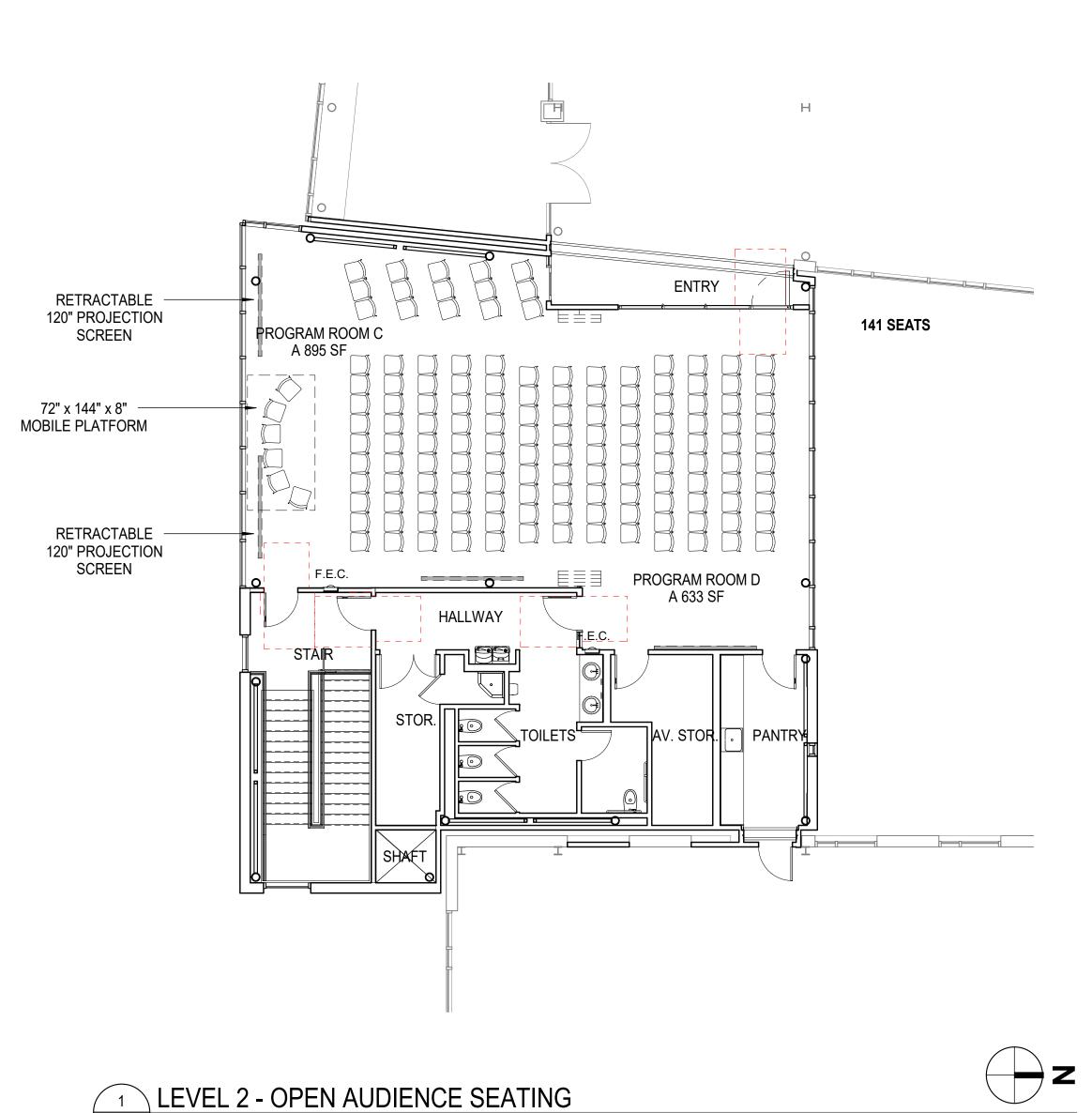
A2.42 SCALE: 1/8" = 1'-0"

A2.42 SCALE: 1/8" = 1'-0"



A2.42 SCALE: 1/8" = 1'-0"





2 LEVEL 2 - OPEN COMMUNAL SEATING A2.42 SCALE: 1/8" = 1'-0"

5 LEVEL 2 - CLOSED COMMUNAL SEATING

A2.42 SCALE: 1/8" = 1'-0"

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Sheet Title LEVEL 2 -

**FURNITURE PLANS** 

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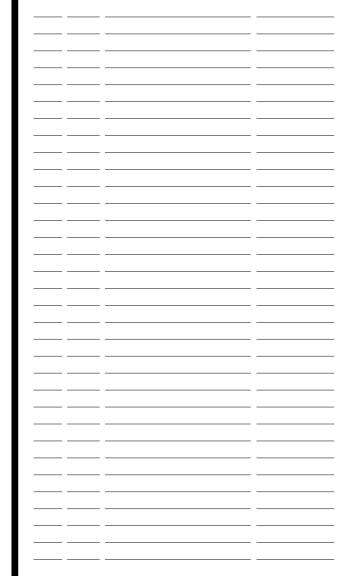
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06.01.2020

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Author

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Sheet Title **BUILDING** 

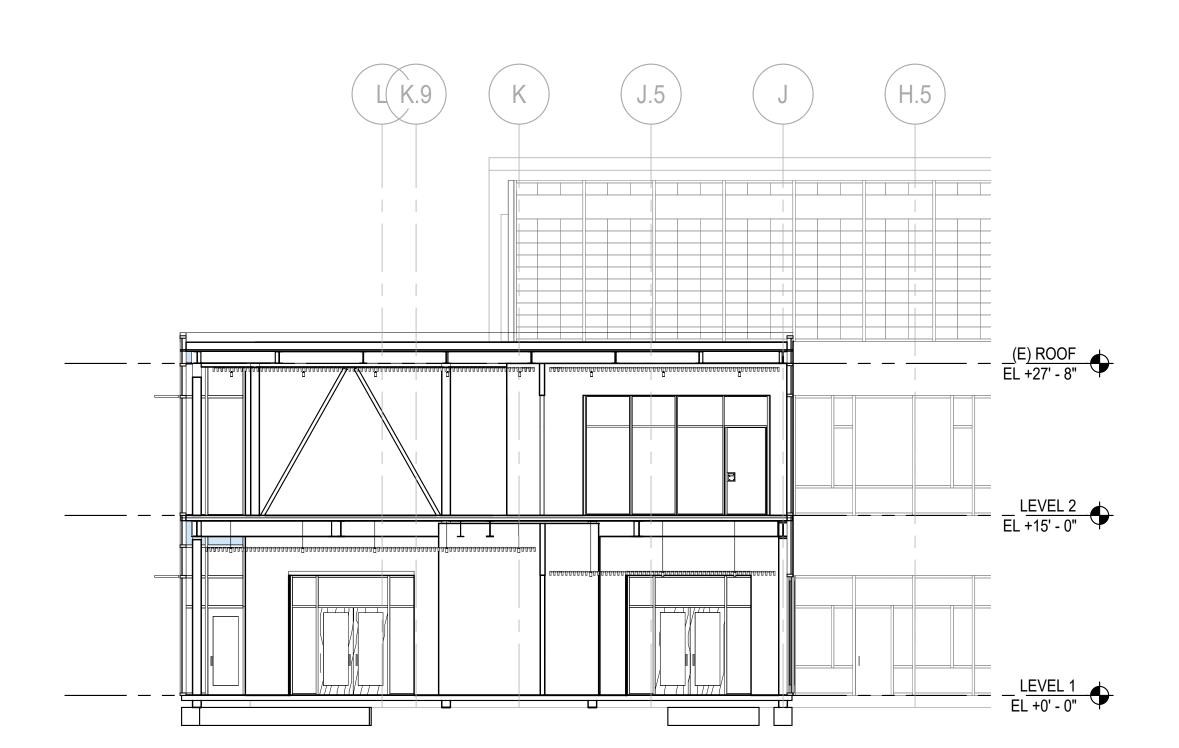
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Sheet Number

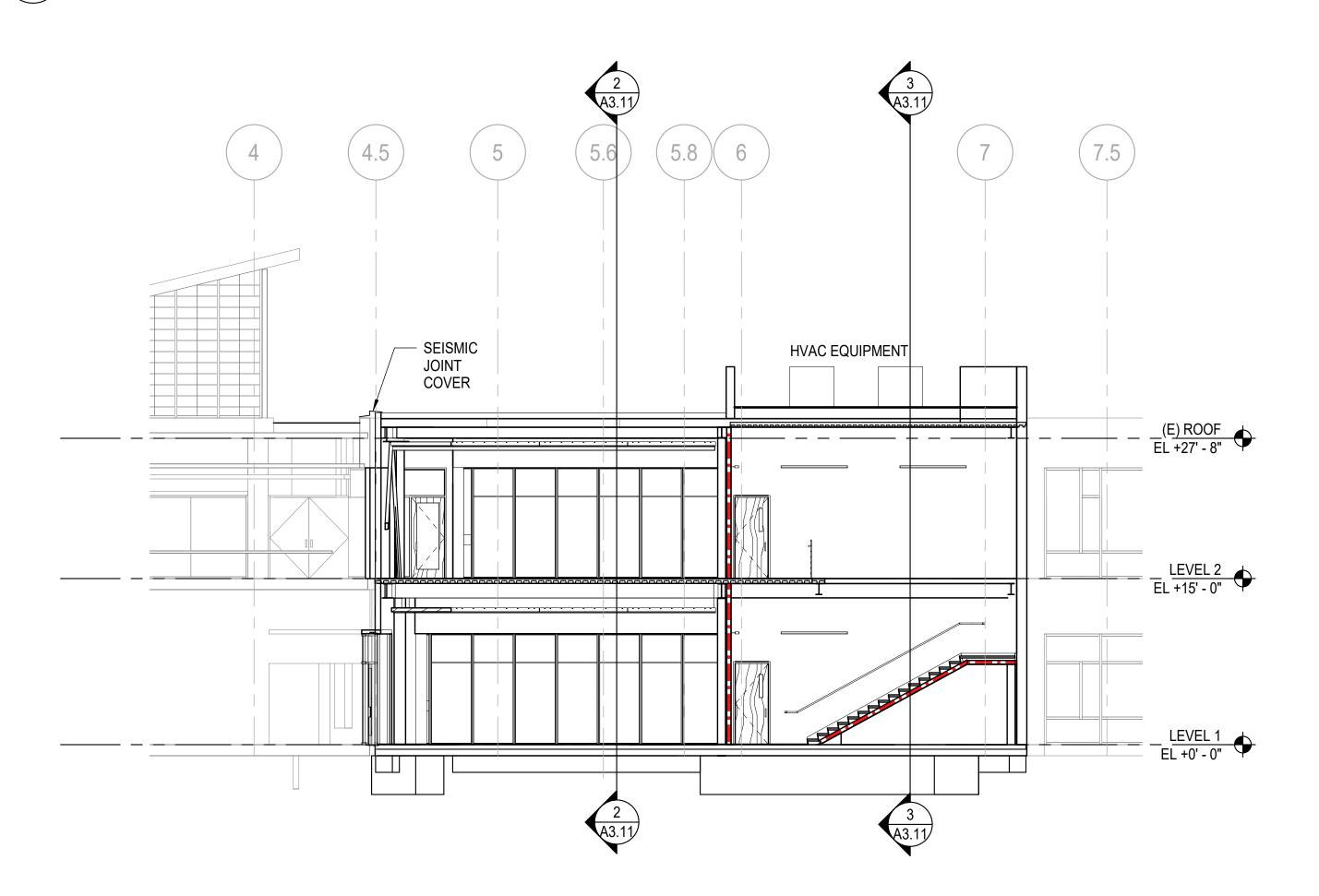
A3.01

SECTION 2 NORTH-SOUTH SHOWING WATER

3 EASEMENT A3.11 SCALE: 1/8" = 1'-0"



SECTION 6 NORTH SOUTH
SCALE: 1/8" = 1'-0"



1 SECTION 4 EAST WEST
A3.11 SCALE: 1/8" = 1'-0"

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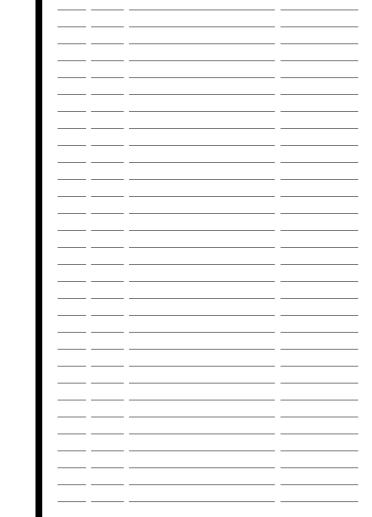
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Scale
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Sheet Title
BUILDING
SECTIONS

20013

Sheet Number

A3.11

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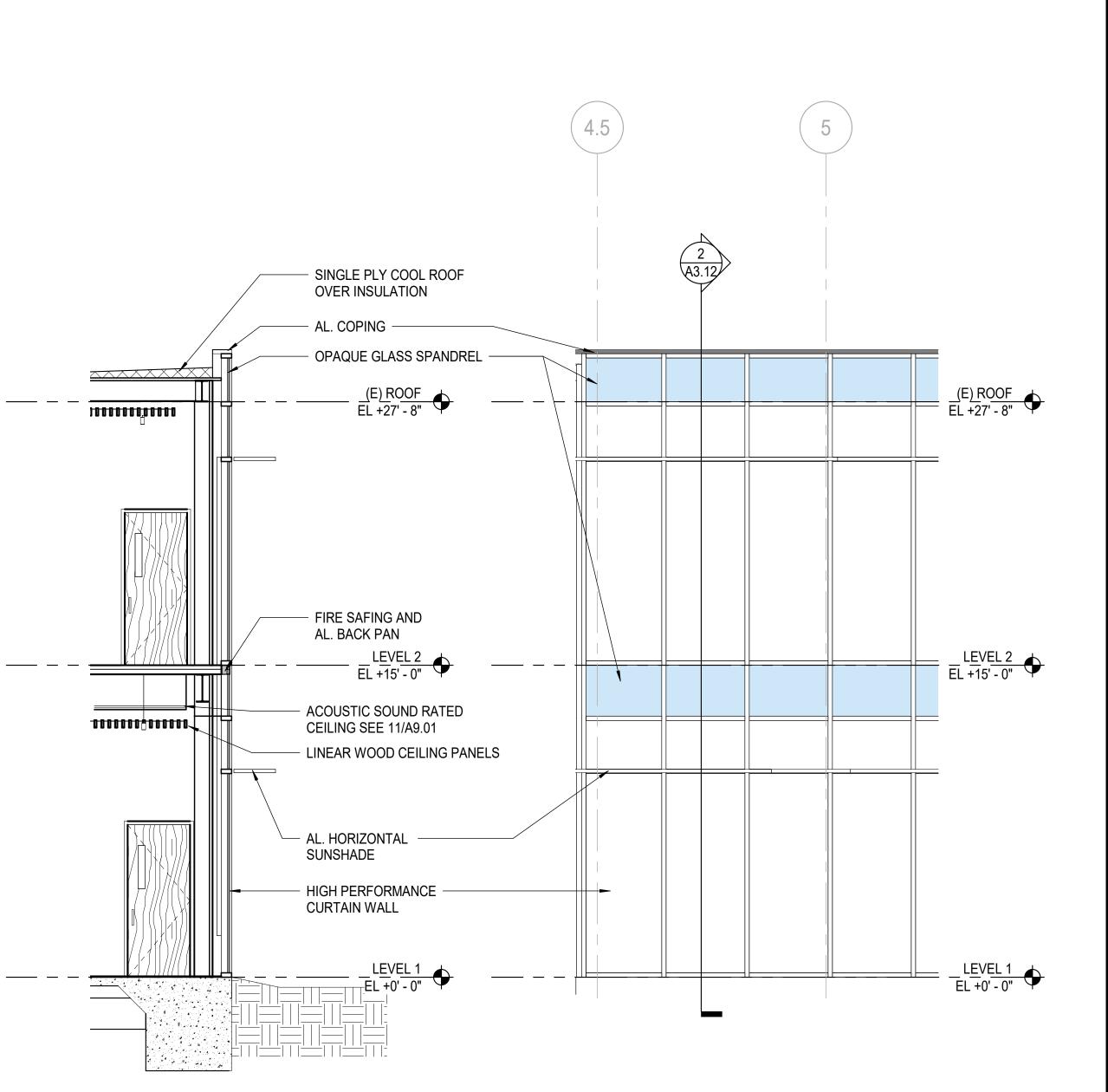
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SOUTH WALL SECTION
SCALE: 1/4" = 1'-0"

SOUTH ELEVATION ENLARGED
SCALE: 1/4" = 1'-0"

Sheet Number

Scale 1/4" = 1'-0"

Drawn by **Author** 

20013

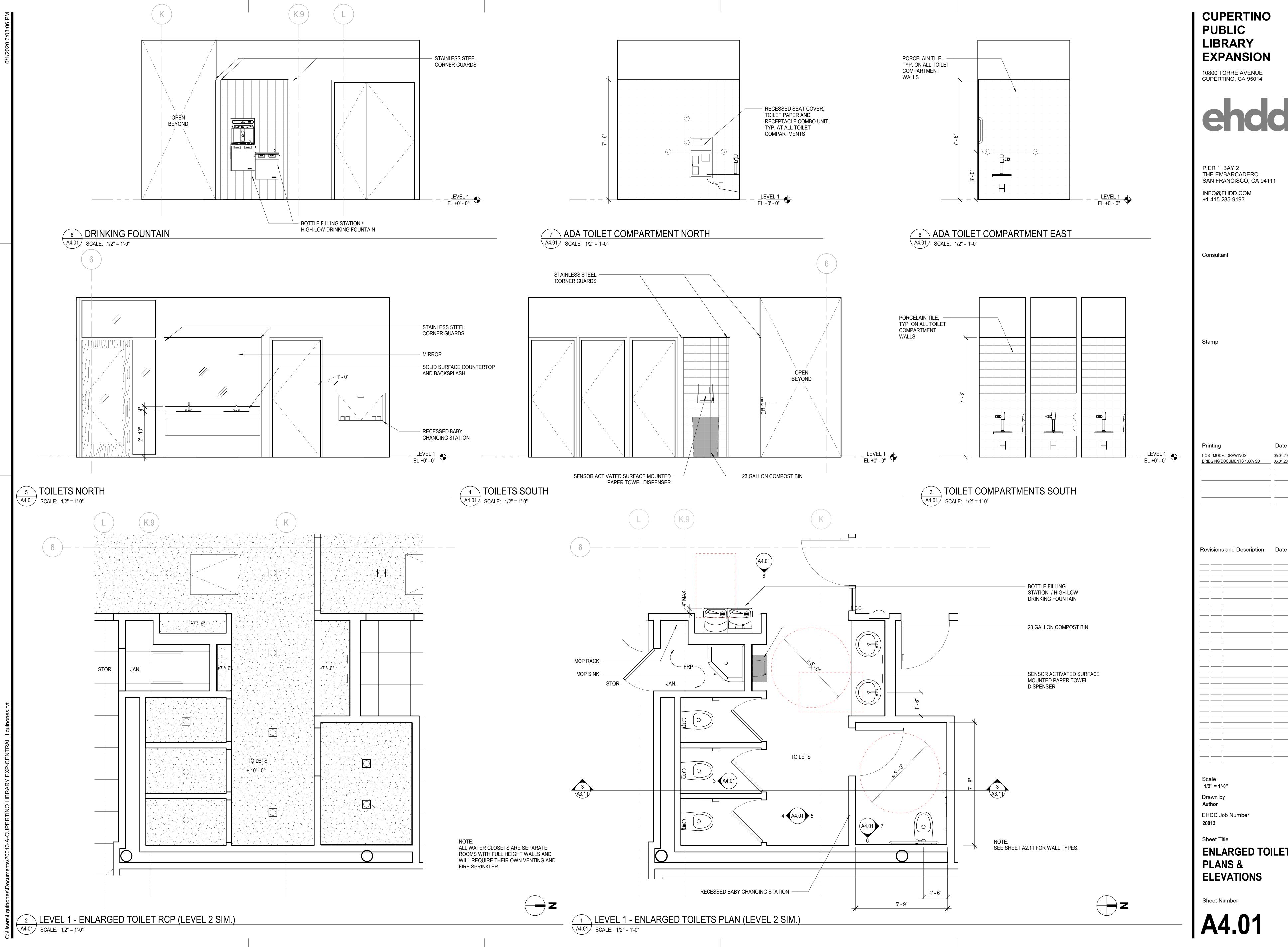
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EHDD Job Number

**SECTIONS** 

**BUILDING WALL** 

A3.12



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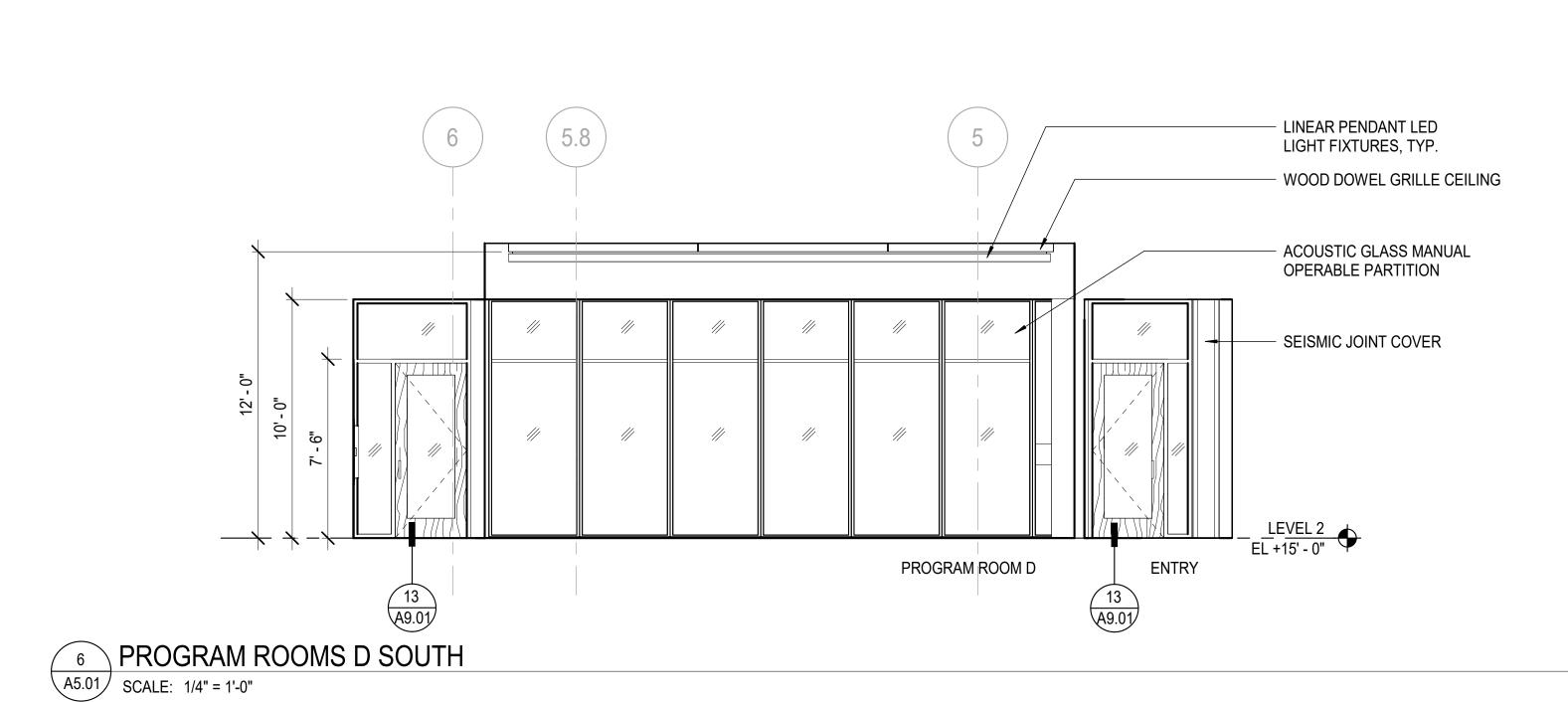
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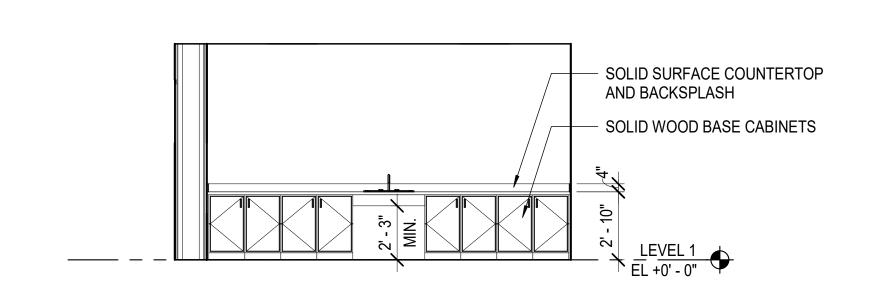
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Scale 1/2" = 1'-0" Drawn by Author

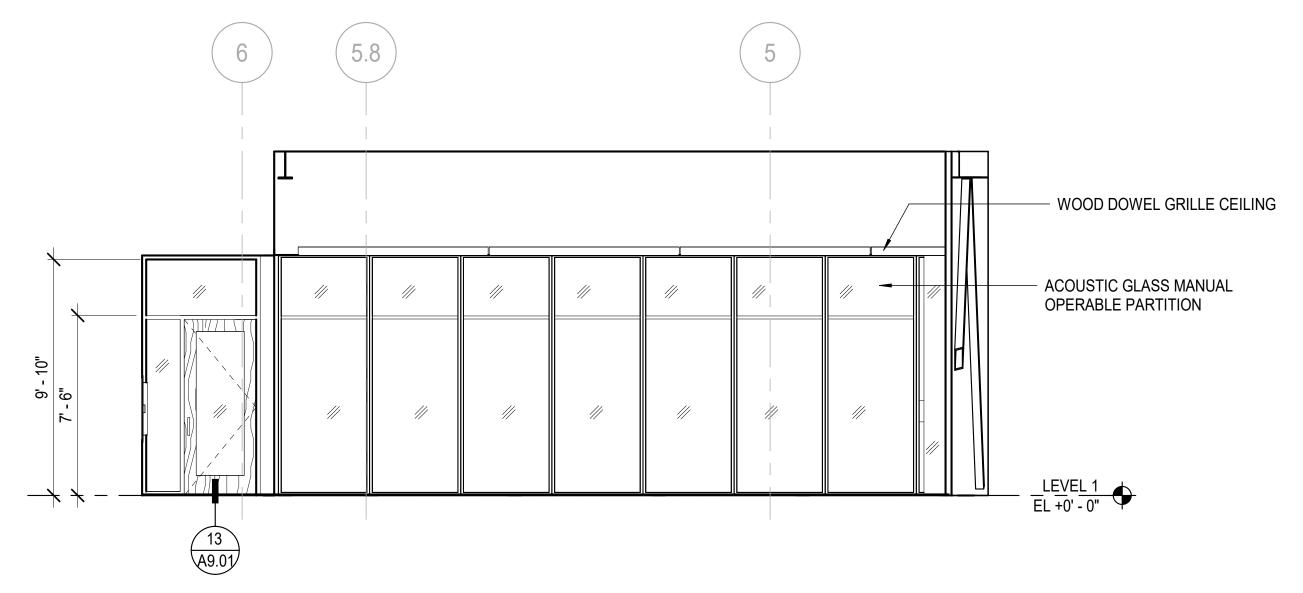
EHDD Job Number 20013

Sheet Title **ENLARGED TOILET** PLANS & **ELEVATIONS** 

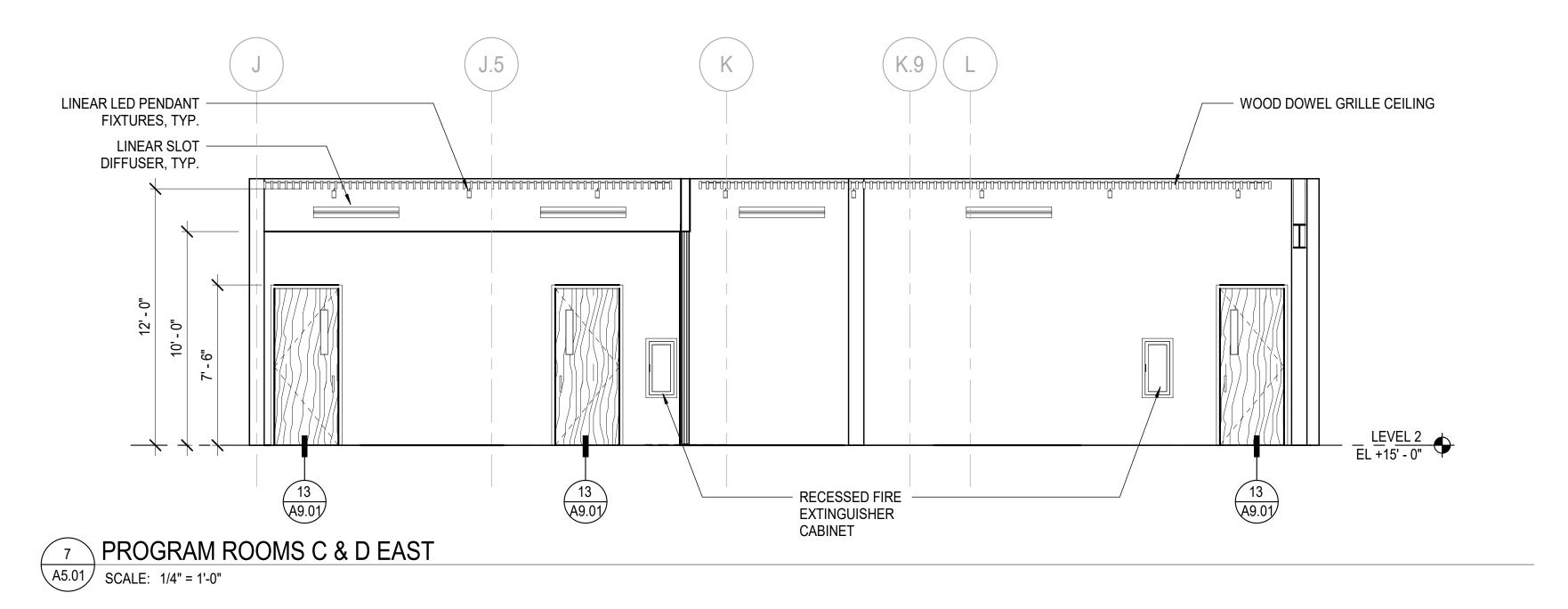


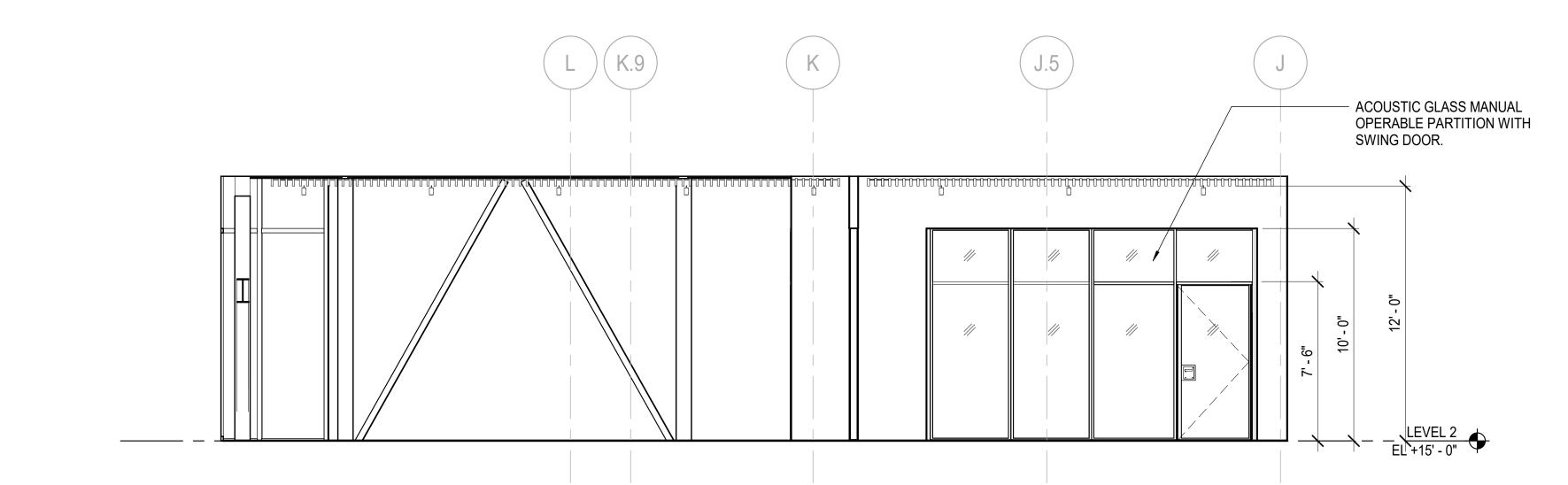


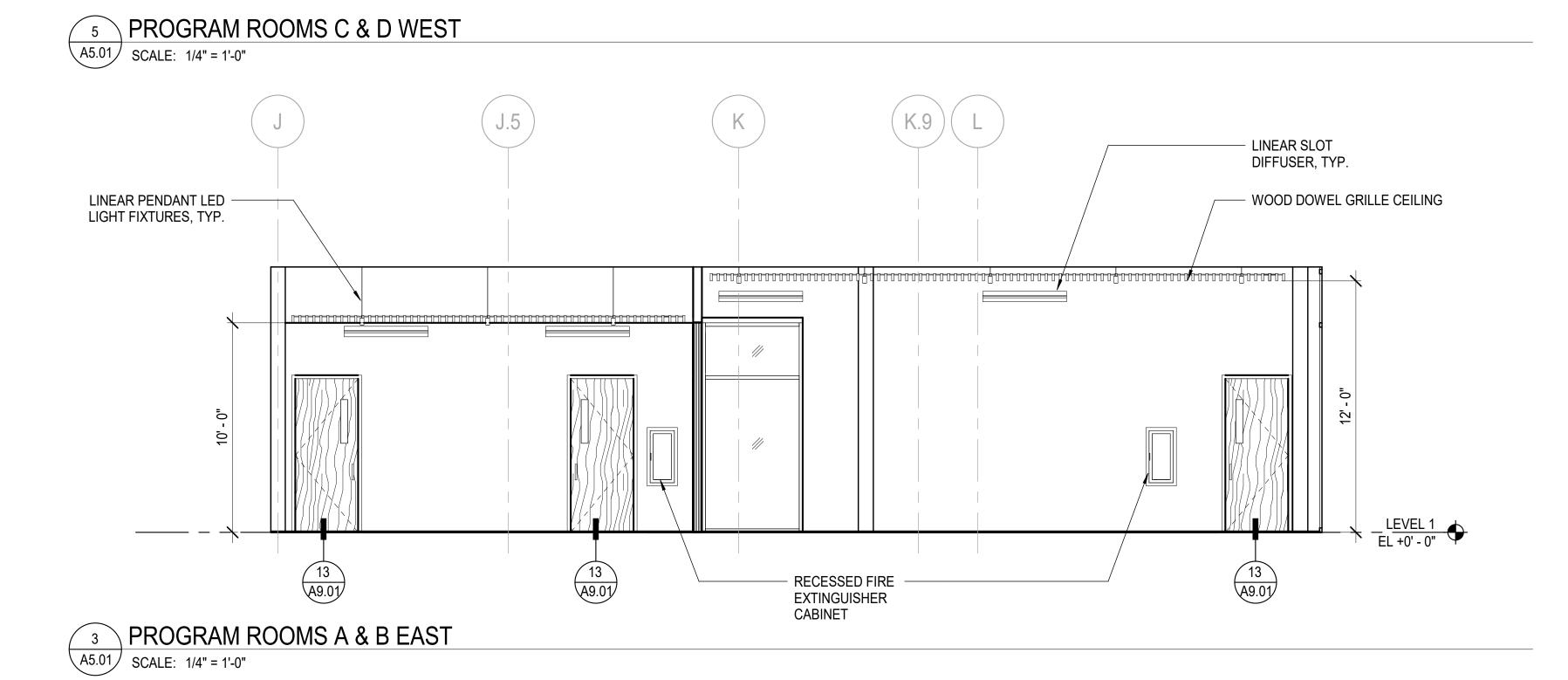
# 4 PANTRY SOUTH (LEVEL 1 & 2 SIM.) SCALE: 1/4" = 1'-0"

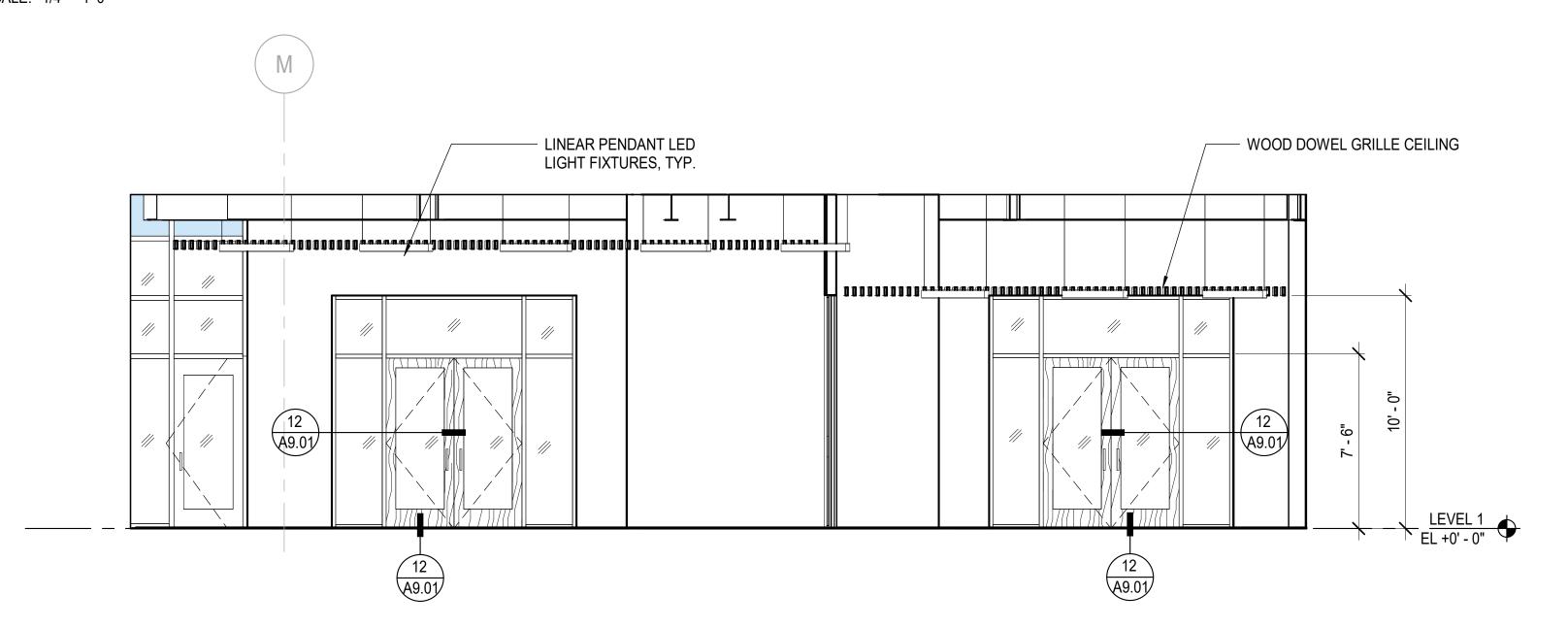


PROGRAM ROOM A SOUTH
SCALE: 1/4" = 1'-0"









PROGRAM ROOMS A & B WEST
SCALE: 1/4" = 1'-0"

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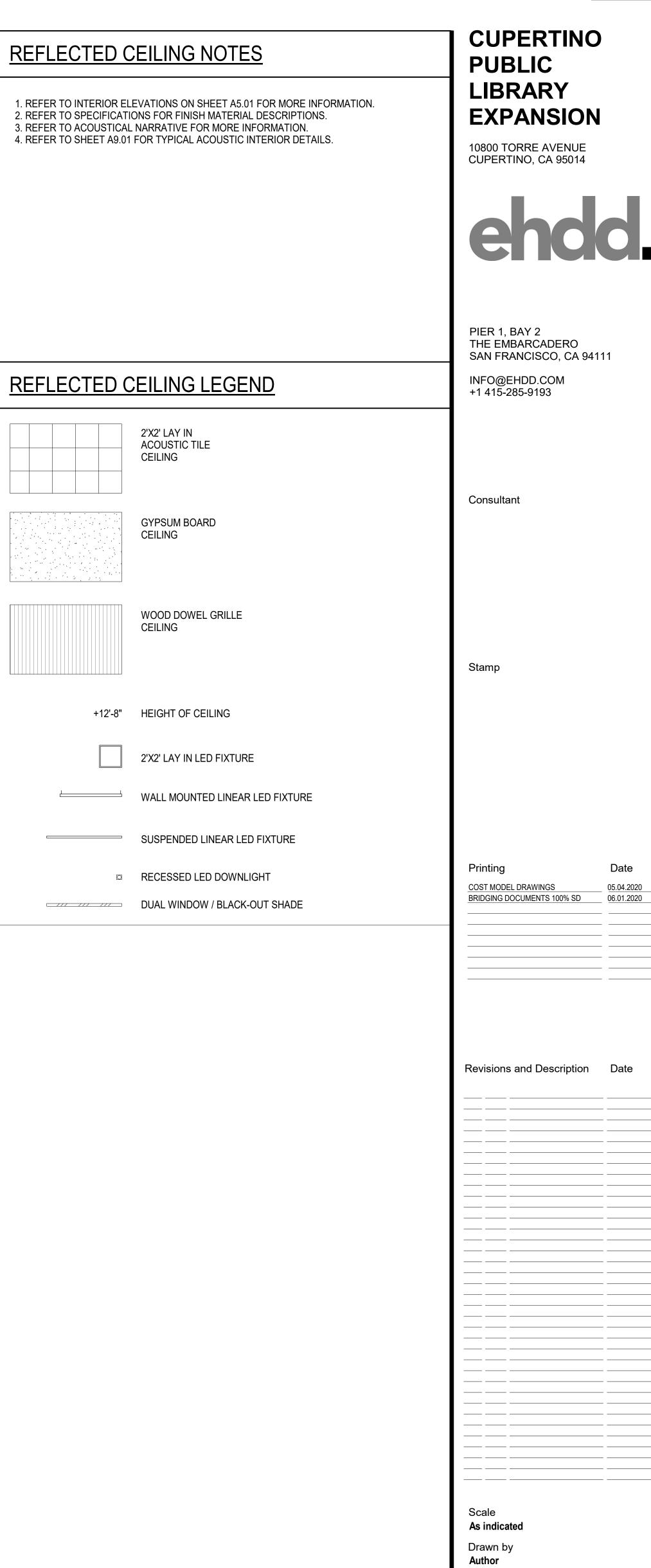
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Sheet Title
INTERIOR
ELEVATIONS

Sheet Number

A5.01





EHDD Job Number

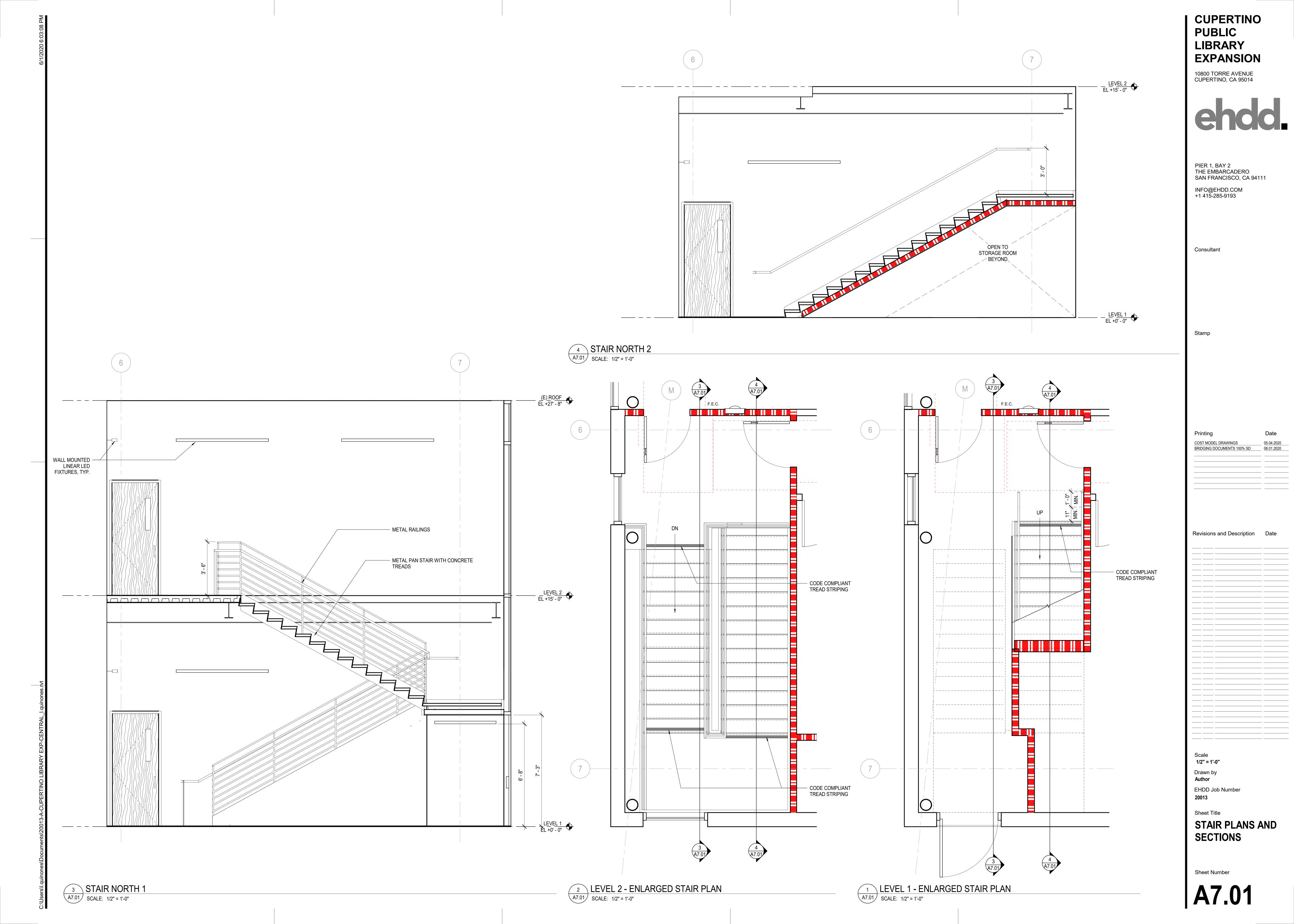
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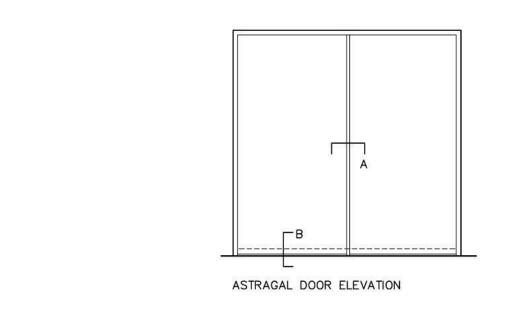
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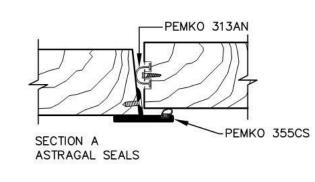
**CEILING PLAN** 

20013

Sheet Title

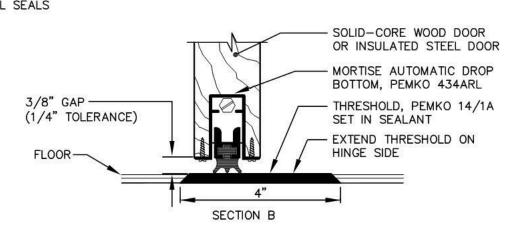






NOT TO SCALE

SOUND RATED CEILING



SOUND-GASKETED DOOR ASTRAGAL

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A9.01

# CONCEPTUAL RETURN AIR BOOT

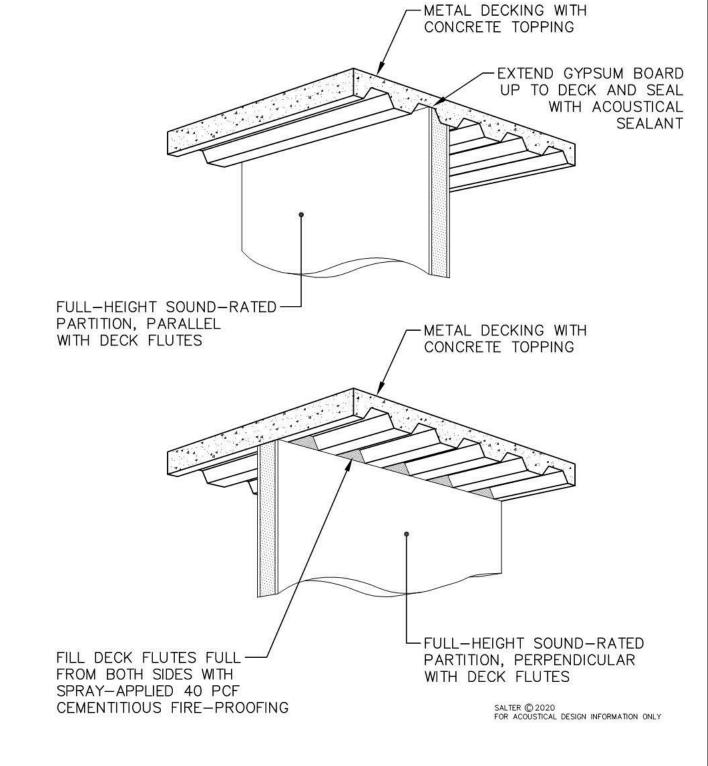
NOT TO SCALE

INPUT AS THE DESIGN PROGRESS.

SOUND-RATED CONSTRUCTION -CONDUIT OR PIPE -EDGE OF PENETRATION -FILL VOID WITH SAFING INSULATION AND SEAL BOTH ENDS WITH EXPANDING FIRE FOAM SEALANT OR J.M.CLIPPER DUXSEAL

NOTE: APPLICABLE AT ALL SOUND-RATED CONSTRUCTION INCLUDING INTERIOR INSULATED ASSEMBLIES. SALTER © 2020 FOR ACOUSTICAL DESIGN INFORMATION ONLY

6 TYP. MULTIPLE PIPE/CONDUIT PENETRATION



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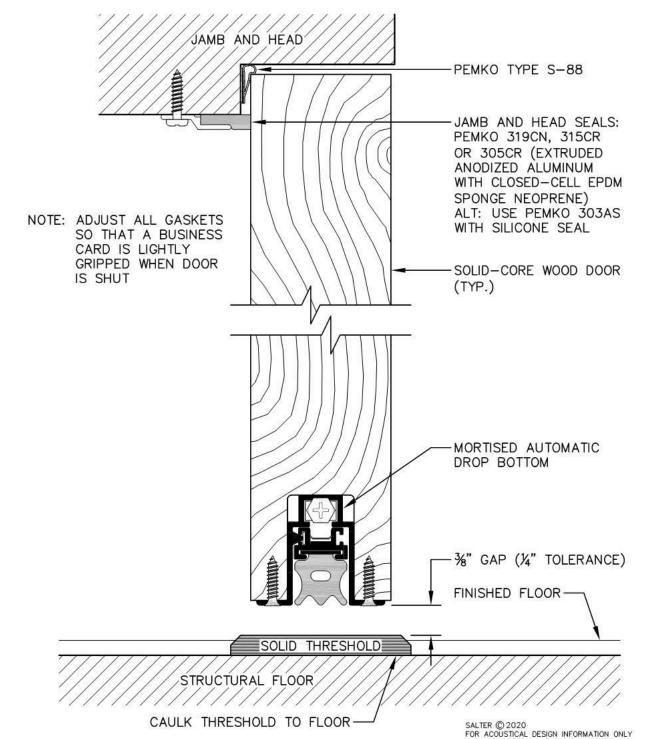
06.01.2020

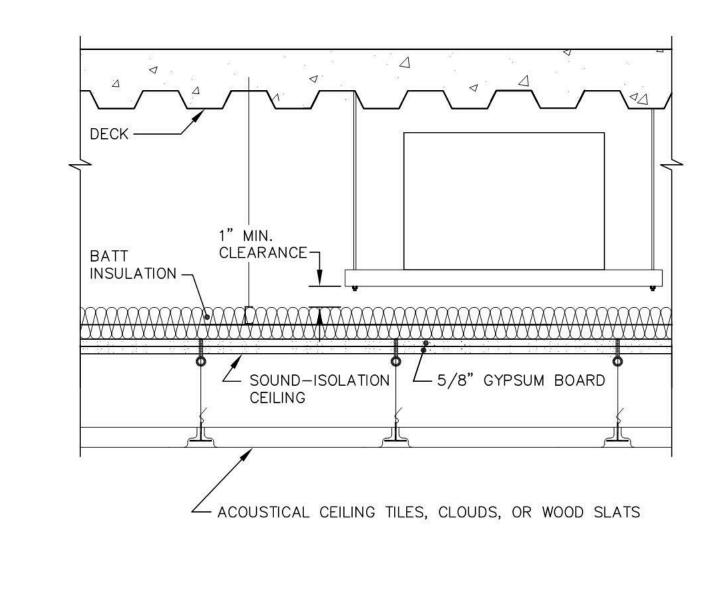
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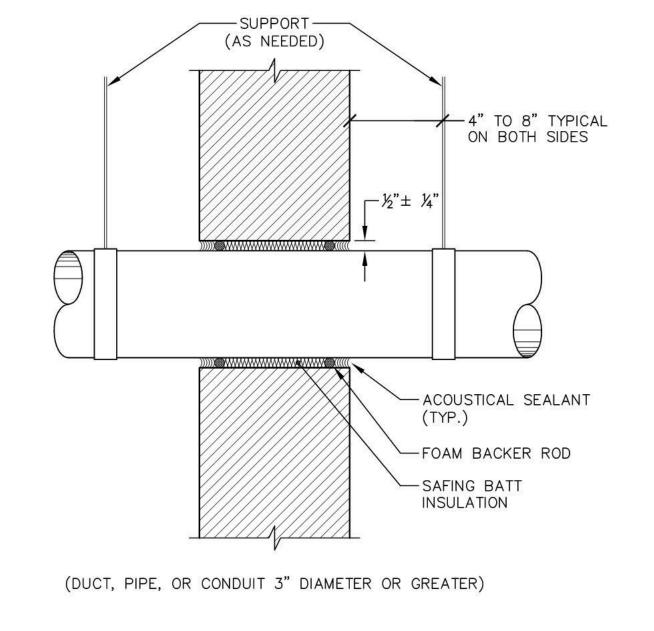
**LIBRARY** 

∖ SOUND-RATED PARTITION AT DECK A9.01 NOT TO SCALE





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PLENUM BARRIER OR WALL EXTENDED TO THE

-SUSPENDED CEILING

-1" THICK DUCT LINER

-ELBOW TURNED UP ("BOOT")

SPACE BETWEEN DUCT AND WALL

NOTE: THE LENGTH OF DUCT AND NUMBER OF ELBOWS IS DEPENDENT ON

THE NIC RATING OF THE WALL. WE WILL PROVIDE MORE-DETAILED

OPENING SHALL BE PACKED WITH

GLASS FIBER INSULATION AND THEN

CAULKED WITH ACOUSTICAL SEALANT

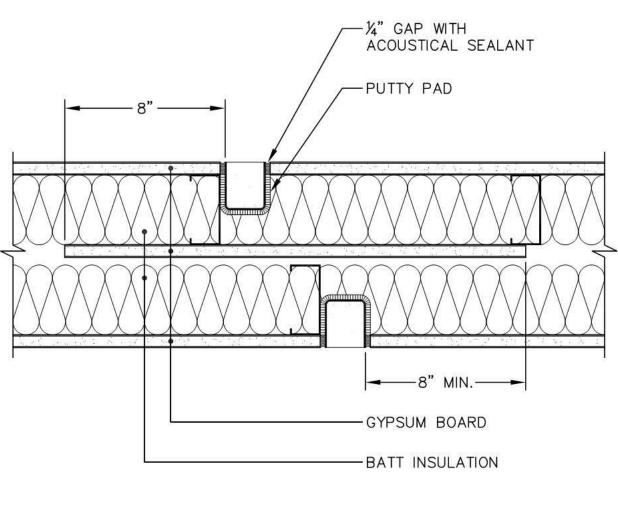
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SLAB ABOVE

NOTE: APPLICABLE AT ALL SOUND-RATED CONSTRUCTION INCLUDING INTERIOR INSULATED ASSEMBLIES SALTER © 2020 FOR ACOUSTICAL DESIGN INFORMATION ONLY

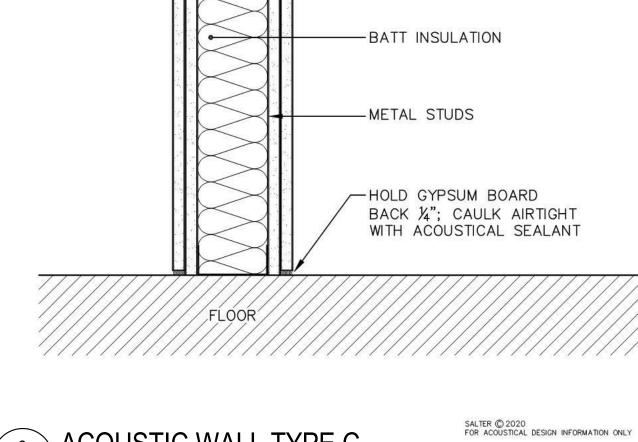
TYP. LARGE PIPE/CONDUIT PENETRATION

 $\overline{A9.01}$  SCALE: 1 1/2" = 1'-0"



NOTES: 1. PANEL TO BE EITHER SHEET METAL OR 1/2" MINIMUM GYPSUM BOARD 2. PANEL TO BE ATTACHED TO ONLY ONE ROW OF STUDS 3. PANEL TO EXTEND 8" ABOVE AND BELOW OUTLETS 4. WALL TYPE PER PLANS

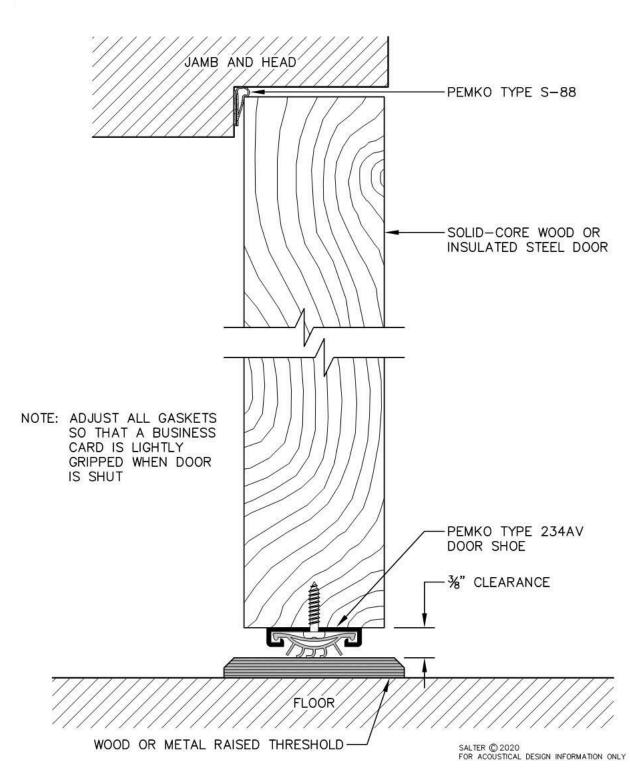
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-%" GYPSUM BOARD

ACOUSTIC WALL TYPE C NOT TO SCALE

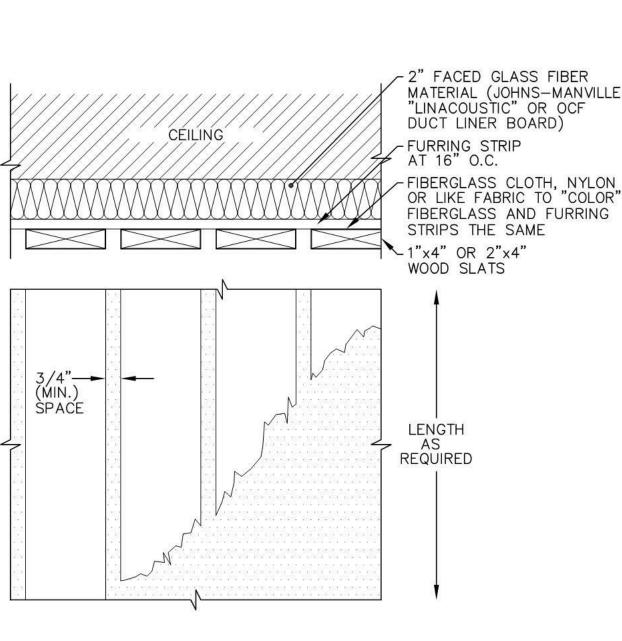




SOUND-GASKETED DOOR

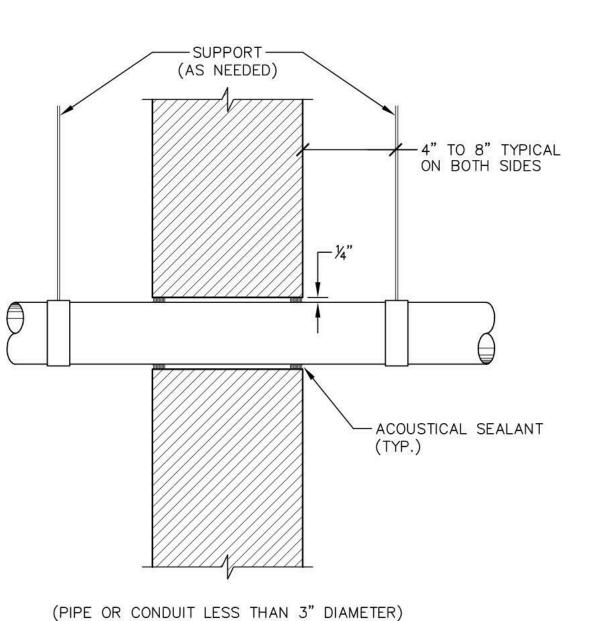
NOT TO SCALE

\ A9.01/



SALTER © 2020 FOR ACOUSTICAL DESIGN INFORMATION ONLY 10 SOUND-ABSORBING SPACED WOOD SLATS ∖ A9.01 ∕

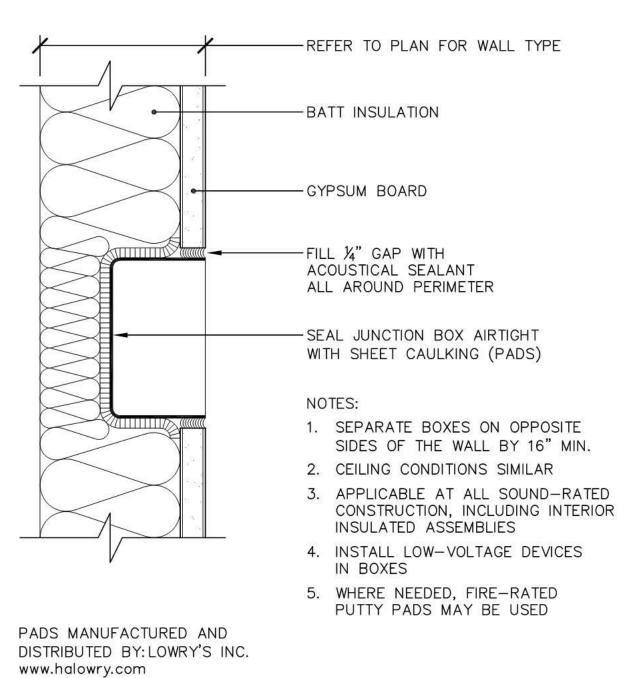
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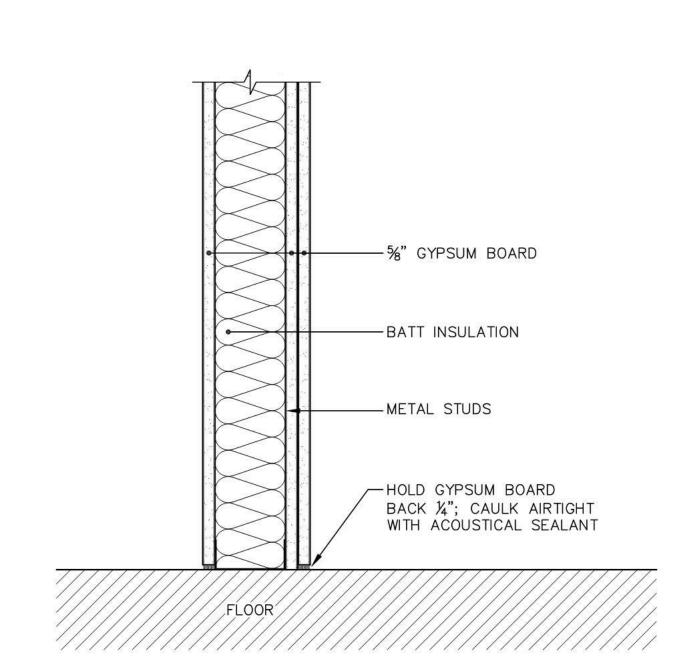
NOTE: APPLICABLE AT ALL SOUND-RATED CONSTRUCTION

INCLUDING INTERIOR INSULATED ASSEMBLIES

TYP. SMALL PIPE/CONDUIT PENETRATION A9.01 SCALE: 1 1/2" = 1'-0"



JUNCTION BOX IN SOUND-RATED 4 CONSTRUCTION NOT TO SCALE



ACOUSTIC WALL TYPE B A9.01 NOT TO SCALE

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Scale

1 1/2" = 1'-0"

EHDD Job Number

TYPICAL ACOUSTIC

Drawn by

**Author** 

20013

Sheet Title

**DETAILS** 

UPGRADED SOUND-GASKETED DOOR

MATERIAL (JOHNS-MANVILLE "LINACOUSTIC" OR OCF FIBERGLASS CLOTH, NYLON OR LIKE FABRIC TO "COLOR"

\A9.01

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A9.01 SCALE: 1 1/2" = 1'-0"

5 JUNTION BOX ISOLATION A9.01 SCALE: 1 1/2" = 1'-0"

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B. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, SPECIFICATIONS, NOTES AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BY THE GENERAL CONTRACTOR (HEREAFTER REFEREED TO AS "CONTRACTOR") AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK.

C. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE BEFORE COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT. CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES PRIOR TO THE START OF AND THROUGHOUT CONSTRUCTION.

D. DO NOT USE SCALED DIMENSIONS. USE WRITTEN DIMENSIONS OR WHERE NO DIMENSION IS PROVIDED, CONSULT WITH THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK, COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS BEFORE PROCEEDING WITH THE WORK.

E. DIMENSIONING: THESE DOCUMENTS SHOULD BE CONSIDERED AS A PART OF THE COMPLETE DRAWING SET, INCLUDING DOCUMENTS OF ALL DISCIPLINES. IT IS INTENDED THAT THE STRUCTURAL DRAWINGS PROVIDE SUFFICIENT DIMENSIONS TO LOCATE THE PRIMARY STRUCTURAL ELEMENTS AND MEMBERS WHEN KNOWN. IF NOT PROVIDED, CONSULT WITH ARCHITECT. LOCATION OF SECONDARY MEMBERS, WHICH ARE AFFECTED BY SYSTEMS DETAILED BY OTHERS, MAY REQUIRE REFERENCE TO THE DRAWINGS OF THOSE OTHER DISCIPLINES AND LAYOUT AND COORDINATION BY THE CONTRACTOR. IF DIRECT CONFLICT BETWEEN THE DIMENSIONS OF TWO OR MORE DISCIPLINES IS ENCOUNTERED, SUCH CONFLICT SHALL BE RESOLVED BY THE ARCHITECT.

F. FINISHED FLOOR ELEVATION, FLOOR DEPRESSIONS, ELEVATIONS: IT IS INTENDED THAT SUFFICIENT INFORMATION IS PROVIDED TO DETERMINE THE ELEVATION OF PRIMARY STRUCTURAL MEMBER AND ELEMENTS AND/OR AT CHANGES IN SLOPE WHEN KNOWN. IF NOT PROVIDED, CONSULT WITH ARCHITECT. ELEVATIONS AT POINTS LOCATED BETWEEN PROVIDED ELEVATIONS MAY BE DETERMINED BY INTERPOLATION.

G. DETAILS AND NOTES SHOWN ON THESE DRAWINGS SHALL APPLY AT ALL APPROPRIATE LOCATIONS WHETHER SPECIFICALLY CALLED OUT OR NOT. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO

DETAILS SHOWN FOR SIMILAR CONDITIONS. IF APPROPRIATE DETAIL IS NOT CLEAR, CONTACT DAEDALUS. H. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR LOCATION AND SIZE OF BLOCKOUTS, EMBEDDED ITEMS, OPENINGS, SLOPES, DRAINS, PADS, CURBS, ETC. NOT PROVIDED ON THE

STRUCTURAL DRAWINGS. I. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO ALL STRUCTURAL FABRICATIONS. PRIOR TO SUBMITTAL, THE SHOP DRAWINGS SHALL HAVE BEEN STAMPED INDICATING THAT THE CONTRACTOR HAS VERIFIED ALL QUANTITIES, DIMENSIONS, FIELD CONSTRUCTION CRITERIA, MATERIALS, AND OTHER RELEVANT DATA.

J. THE CONTRACTOR MUST SUBMIT IN WRITING ANY REQUESTS FOR MODIFICATIONS TO THE PLANS AND SPECIFICATIONS. SHOP DRAWINGS SUBMITTED TO THE ARCHITECT FOR REVIEW DO NOT CONSTITUTE "IN WRITING". ALL REQUESTS ARE SUBJECT TO REVIEW AND APPROVAL BY THE OWNER.

K. PIPES, DUCTS, SLEEVES, CHASES, ETC. SHALL NOT BE PLACED IN CONCRETE FOUNDATION, SLABS, BEAMS OR WALLS UNLESS SPECIFICALLY SHOWN OR NOTED. NO STRUCTURAL MEMBER WILL BE CUT FOR PIPES, DUCTS, ETC. UNLESS SPECIFICALLY SHOWN. OBTAIN PRIOR WRITTEN APPROVAL FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.

L. THE USE OF NEW CONSTRUCTION FOR THE SUPPORT/STORAGE OF CONSTRUCTION EQUIPMENT OR MATERIALS IS RESTRICTED TO THE DESIGN CAPACITY OF THE NEW CONSTRUCTION AT THE TIME IT IS TO BE USED FOR SUCH SUPPORT, AS EVALUATED BY A LICENSED CALIFORNIA ENGINEER ENGAGED BY CONTRACTOR. PLACE MATERIAL OR EQUIPMENT SO AS NOT TO EXCEED THE CAPACITY OF INDIVIDUAL ELEMENTS. PROVIDE ADEQUATE SHORING DESIGNED BY A LICENSED CALIFORNIA CIVIL ENGINEER WHERE DESIGN CAPACITY IS NOT SUFFICIENT.

M. ALL CONSTRUCTION SHALL CONFORM TO THE CALIFORNIA BUILDING CODE, 2019 EDITION AS AMENDED BY THE CITY OF CUPERTINO AND ALL THE STANDARDS REFERENCED THEREIN: ACI 318, AISC 360, AISC 341, ASCE 7, NDS, ACI 530, AISI, AND ASTM.

### II. MEANS AND METHODS

A. THE CONTRACT DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INCLUDE THE MEANS, METHODS, PROCEDURES OR SEQUENCES OF CONSTRUCTION. MAINTAINING AND ENSURING THE INTEGRITY OF THE STRUCTURE AND SAFETY OF PERSONNEL THROUGHOUT THE CONSTRUCTION PERIOD IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, GUYS, AND BRACING. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, REGULATIONS, AND ORDINANCES.

### III. DEMOLITION, SHORING AND TEMPORARY LATERAL BRACING

A. SAFETY OF PERSONNEL AND PROPERTY DURING ANY DEMOLITION WORK IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. BEFORE DEMOLITION BEGINS, THE CONTRACTOR SHALL INSPECT EXISTING CONSTRUCTION TO IDENTIFY DEFECTS AND STRUCTURAL WEAKNESSES WHICH MAY AFFECT THE CONSTRUCTION SAFETY. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ENSURE THAT ALL DEFECTS AND WEAKNESSES ARE REMEDIED PRIOR TO PROCEEDING WITH THE DEMOLITION. THE STRUCTURAL ENGINEER MAKES NO REPRESENTATION AS TO STRUCTURAL INTEGRITY OF EXISTING STRUCTURES.

B. THE CONTRACTOR SHALL REVIEW THE NEED FOR TEMPORARY SHORING AND BRACING PRIOR TO DEMOLITION OR ERECTION OF WALLS, FLOORS, ROOFS, ETC.. NOTES REFERRING TO SHORING ON DRAWINGS DO NOT INCLUDE ALL SHORING NECESSARY TO SAFELY COMPLETE THE WORK.

### IV. HAZARDOUS MATERIALS IN EXISTING CONSTRUCTION

DAEDALUS ASSUMES NO RESPONSIBILITY FOR THE MANAGEMENT OF HAZARDOUS MATERIALS THAT MAY BE ON THE SITE OR WITHIN EXISTING BUILDINGS.

A. DAEDALUS HAS NOT PERFORMED INVESTIGATIONS TO DETERMINE THE PRESENCE OF HAZARDOUS MATERIALS. THE OWNER WILL PROVIDE THE RESULTS OF SUCH INVESTIGATIONS IF THEY HAVE BEEN PERFORMED.

B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT PERSONNEL WITHIN THE WORK AREA ARE PROTECTED FROM EXPOSURE TO HAZARDOUS MATERIALS. IF HAZARDOUS MATERIALS ARE DISCOVERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND CEASE WORK UNTIL CONDITIONS CAN BE MAINTAINED IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS.

## V. SUBMITTALS

A. THE CONTRACTOR SHALL SUBMIT THE FOLLOWING TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO THE START OF CONSTRUCTION:

a. REINFORCING STEEL MATERIAL TEST REPORTS

b. REINFORCING STEEL SHOP DRAWINGS c. CONCRETE MIX DESIGN FOR EACH CLASS OF CONCRETE WHICH SHALL INCLUDE:

i. LABORATORY TEST REPORT FOR CONCRETE MIXES ii. MATERIAL CERTIFICATES FOR CONCRETE MATERIALS, INCLUDING CEMENTS, AGGREGATES, AND ADMIXTURES iii. PRODUCT DATA FOR FOR PROPRIETARY MATERIALS AND ITEMS

d. STRUCTURAL STEEL SHOP DRAWINGS e. WELDING PROCEDURE SPECIFICATION

## VI. QUALITY ASSURANCE

A. THE OWNER SHALL EMPLOY QUALIFIED SPECIAL INSPECTORS, ACCEPTABLE TO THE ENFORCEMENT AGENCY AND TO PERFORM INSPECTIONS IN ACCORDANCE WITH SECTIONS 104.4, 110, AND CHAPTER 17 OF THE CBC. THE ITEMS REQUIRING SPECIAL INSPECTION ON THIS PROJECT INCLUDE THE FOLLOWING:

1. ENGINEERED FILL

2. STRUCTURAL EXCAVATION 3. CONCRETE REINFORCING STEEL PLACEMENT

4. CONCRETE PLACEMENT

5. STRUCTURAL STEEL WELDING 6. STRUCTURAL STEEL HIGH STRENGTH BOLTING

7. WOOD FRAMING (HOLD DOWN, TIE DOWN AND ALL OTHER SEISMIC CONNECTORS) 8. PLYWOOD NAILING - PERIODIC, WHERE NAIL SPACING IS 4" OR SMALLER

9. INSTALLATION & TESTING OF EXPANSION ANCHORS & ANCHORS IN CHEMICAL ADHESIVE.

B. SPECIAL INSPECTORS SHALL BE QUALIFIED BY TRAINING AND EXPERIENCE FOR THE REQUIRED INSPECTIONS. INSPECTORS WILL THOROUGHLY REVIEW APPLICABLE PORTIONS OF THE CONSTRUCTION DOCUMENTS. INSPECTORS WILL PERFORM ALL DUTIES AND RESPONSIBILITIES AS REQUIRED BY CBC SECTIONS 104.4, 110, AND CHAPTER

C. THE STRUCTURAL ENGINEER WILL PERIODICALLY REVIEW THE PROGRESS OF THE WORK FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. HOWEVER, THIS REVIEW SHALL NOT BE CONSTRUED AS SPECIAL INSPECTION. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER FOR STRUCTURAL OBSERVATIONS OF THE FOLLOWING ITEMS AT LEAST 48 HOURS PRIOR TO PROCEEDING WITH WORK THAT WOULD PREVENT OBSERVATION, UNLESS OTHERWISE NOTED.

1. FOUNDATION EXCAVATIONS AND REINFORCING STEEL PLACEMENT (PRIOR TO CONCRETE PLACEMENT) 2. REINFORCING STEEL FOR MASONRY WALLS (PRIOR TO PLACEMENT OF MASONRY BLOCKS)

3. WOOD FRAMED WALLS (PRIOR TO INSTALLING PLYWOOD OR FINISHES ON THE SECOND SIDE) 4. THE COMPLETE STRUCTURAL SYSTEMS (PRIOR TO INSTALLING ARCHITECTURAL FINISHES)

D. THE GEOTECHNICAL ENGINEER OF RECORD WILL OBSERVE ALL PAD CONSTRUCTION. PLACEMENT/COMPACTION OF ENGINEERED FILL, BOTTOM OF FOUNDATION EXCAVATION, JUST PRIOR TO CONCRETE PLACEMENT AND PIER EXCAVATIONS DURING DRILLING TO VERIFY COMPLIANCE WITH THE INTENT OF THE GEOTECHNICAL INVESTIGATION.

### VII. DETAIL NUMBERING:

THE BLOCKS ARE NOT DRAWN ON DETAIL SHEETS BUT THE NUMBERS MORE OR LESS CORRESPOND TO THE NUMBERING SYSTEM USED FOR DETAILS ON THE DRAWINGS.



WHERE MORE THAN ONE BLOCK AREA IS USED FOR A SINGLE DETAIL, THE NUMBER CORRESPONDING TO THE BLOCK AT THE BOTTOM RIGHT CORNER OF DETAIL SHALL BE USED. BLOCK POSITIONS MAY VERY SLIGHTLY.

## VIII. ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS MAY BE USED IN THESE DRAWINGS TO DENOTE THE WORDS INDICATED.

Ç ø	CENTERLINE DEGREES DIAMETER	INFO. INSUL. INT.	INFORMATION INSULATION INTERIOR
(E) (N) # OR NO.	EXISTING NEW NUMBER	K.P. K.S.	KING POST KING STUD
升 P.P.'s ± W/ W/O	PERPENDICULAR PLATE(S) PLUS OR MINUS WITH WITHOUT	L.L.H. L.L.V. LONG. L.P. L.W.	LONG LEG HORIZONTAL LONG LEG VERTICAL LONGITUDINAL LOW POINT LIGHT WEIGHT
A.B. ABV. ADD. ADJ. A.E.S.S.	ANCHOR BOLT ABOVE ADDITIONAL ADJACENT ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	MAX. M.B. MFR MID. MIN. MISC.	MAXIMUM MACHINE BOLT MANUFACTURER MIDDLE MINIMUM MISCELLANEOUS
A.F.F. ALT. APPROX. ARCH  BLDG BLK'G	ABOVE FINISH FLOOR ALTERNATE APPROXIMATE ARCHITECT BUILDING	N N.F. N.I.C. N.S. N.T.S.	NORTH NEAR FACE NOT-IN-CONTRACT NEAR SIDE NOT-TO-SCALE
BLW BM B.N. B.O. BOTT. B.O.S. BR'G BTWN	BLOCKING BELOW BEAM BOUNDARY NAIL BY OTHERS BOTTOM BOTTOM OF STEEL BEARING BETWEEN	N.W.  O.C.  O.D.  O.F.  O.H.  OP'G  OPT.  OPP.	NORMAL WEIGHT  ON CENTER OUTSIDE DIAMETER OUTSIDE FACE OPPOSITE HAND OPENING OPTIONAL OPPOSITE
CANT. CENT., CTR	CANTILEVER CENTER COLD—FORMED STEEL CAST—IN—PLACE CEILING JOIST COMPLETE JOINT PENETRATION CEILING CLEAR CONCRETE MASONRY UNIT COLUMN CONCRETE CONNECTION CONSTRUCTION CONSTRUCTION CONTINUOUS	P.A.F. PEN. PERP. P.J.P. P.L. PLB'G PLY P.P. P.S.F. P.S.I. P/T P.T.	POWDER—ACTUATED FASTENER PENETRATION PERPENDICULAR PARTIAL JOINT PENETRATION PROPERTY LINE PLUMBING PLYWOOD PARTIAL PENETRATION POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POST—TENSIONED PRESSURE TREATED PRESSURE TREATED
DBL DEMO. DET. DIA. DIAG. DIM. DIR. DN DWG, DWG'S	DOUBLE DEMOLITION DETAIL DIAMETER DIAGONAL DIMENSION DIRECTION DOWN	REINF.	RADIUS REGARDING RECTANGLE REFER, REFERENCE REINFORCING REQUIRED, REQUIREMENTS RETAINING REVISION ROOM ROUGH OPENING
EA. E.F. EFF. EL. EMBED. E.O.S. E.O.R. EQ. EQUIV. ETC. E.W. EXIST. EXP. EXT. FDN F.F. F.G. FIN.	EACH EACH FACE EFFECTIVE ELEVATION EMBEDMENT, EMBEDDED EDGE OF SLAB ENGINEER OF RECORD EQUAL EQUIVALENT ETCETERA EACH WAY EXISTING EXPANSION EXTERIOR  FOUNDATION FINISHED FLOOR FINISH	S.A.D. S.C.D. SCH., SCHED. SGL. SHT'G SHR SHT SIM. S.L.D. S.M.D. S.O.G. SPC'G SPEC. SQ. S.S. STD STL SUSP. SW	SINGLE
FLR F.O.C. F.O.S. FRM'G F.S. FT FTG GA. GLB GR.	FLOOR FACE OF CONCRETE FACE OF STUD FRAMING FAR SIDE FOOT OR FEET FOOTING  GAUGE, GAGE GLULAM BEAM GRADE	SYM.  TH., THK T.O. T.O.C. T.O.F. T.O.S. T.O.W. TRANS. TYP.	SYMMETRICAL  THICK, THICKNESS TOP OF TOP OF CONCRETE TOP OF FOOTING TOP OF STEEL TOP OF WALL TRANSVERSE TYPICAL
H.D. HK HORIZ. H.P. H.S.	HOLDOWN HOOK HORIZONTAL HIGH POINT HIGH—STRENGTH HEIGHT	U.O.N. VERT. V.I.F. W.P. WF WRTO	UNLESS OTHERWISE NOTED  VERTICAL VERIFY IN FIELD  WORK POINT WIDE FLANGE WITH RESPECT TO



BLDG ELEVATION

DROP IN FLOOR ELEVATION (RIGHT SIDE LOWER ELEV.)

DEPRESSED FLOOR, STEP AS INDICATED IN PLAN

---- INDICATES CONTINUOUS FOOTING BELOW CONCRETE SLAB

— INDICATES EDGE OF CONCRETE SLAB/FOOTING

SPREAD FOOTING SEE SCHEDULE DET. 1/S3.02

CONCRETE FILL OVER STEEL DECK, SEE 1 & 2/S5.12

—— INDICATES TYPICAL BEAM TO BEAM CONNECTION PER **3/S5.11** 

— INDICATES BRACED BEAM TO BEAM CONNECTION PER 9/S5.13

STRUCTURAL STEEL COLUMN, SIZE PER PLAN, ABOVE LEVEL WHERE SHOWN. REFERENCE TO BASE PLATE DETAIL (10/S3.02

AT HSS AND 11/S3.02 AT WF, U.O.N.). ASTERISK FOLLOWING STEEL POST/COLUMN SIZE INDICATES POST/COLUMN USED AS

PART OF THE LATERAL FORCE RESISTING SYSTEM. USE

SLIP-CRITICAL CONNECTIONS. ["X"] DENOTES LEVEL OF

— STEEL WF BEAM FRAMING INTO HSS POST, SEE 11 &

— STEEL BEAM FRAMING INTO WF COL., SEE **\$5.11** U.O.N.

HSS POST BELOW LEVEL SHOWN WITH STEEL BEAM MEMBER

CONTINUOUS OVER POST PER 16/S5.11 U.O.N., TYP., WHERE

WF COL. BELOW LEVEL SHOWN WITH STEEL BEAM MEMBER

HSS POST OVER STEEL BEAM MEMBER PER 15/S5.11.

POST/COLUMN USED AS PART OF THE LATERAL FORCE

CONTINUOUS OVER POST PER **8/S5.11** U.O.N., TYP., WHERE

ASTERISK FOLLOWING STEEL POST/COLUMN SIZE INDICATES

RESISTING SYSTEM. USE SLIP-CRITICAL CONNECTIONS. ["X"] DENOTES LEVEL OF COLUMN TERMINATION, SEE STRUCTURAL

COLUMN TERMINATION, SEE STRUCTURAL PLANS.

12/S5.11 U.O.N., TYP., WHERE OCCURS

----- HSS POST BELOW LEVEL SHOWN

---- WF COLUMN BELOW LEVEL SHOWN

OCCURS

CFS WALL ABOVE FLOOR LEVEL WHERE SHOWN

— INDICATES STEP IN TOP OF FOOTING

STEEL DECK, SEE 1 & 2/S5.12

STEEL BEAM MEMBER, TYP.

----- SIZE OF STEEL BEAM

OR **10/S5.13** 

SLOPED FINISH, S.A.D.

*------*

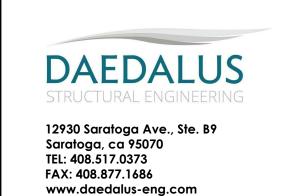
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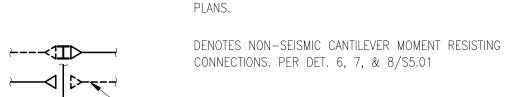
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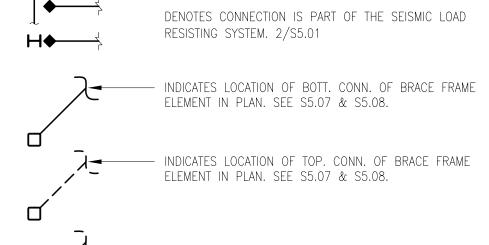
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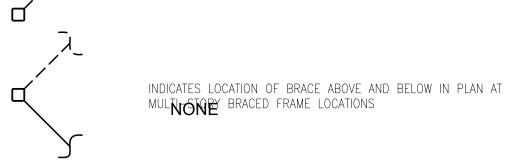
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% BRIDGING DOCUMENTS	06.01.20

PLANS.	Revisions and Description	Date
HSS POST OVER STEEL BEAM MEMBER PER 12/S5.03. ASTERISK FOLLOWING STEEL POST/COLUMN SIZE INDICATES POST/COLUMN USED AS PART OF THE LATERAL FORCE RESISTING SYSTEM. USE SLIP—CRITICAL CONNECTIONS. ["X"] DENOTES LEVEL OF COLUMN TERMINATION, SEE STRUCTURAL	DESCRIPTION  DESCRIPTION	MM/DD/Y
	<b>a</b>	



— BOTH SIDES, WHERE OCCURS, SEE PLAN SEISMIC BRACING OF PERIMETER BEAM BOTTOM FLANGE PER 20/S5.12





## X. STRUCTURAL DRAWING LIST

SO.11 STRUCTURAL GENERAL NOTES SO.12 STRUCTURAL GENERAL NOTES

S2.11 FOUNDATION PLAN/SECOND FLOOR FRAMING PLAN S2.12 ROOF FRAMING PLAN S2.21 BRACE FRAME ELEVATIONS

S3.11 TYPICAL CONCRETE DETAILS S3.12 TYPICAL CONCRETE DETAILS

S5.11 TYPICAL STEEL DETAILS S5.12 TYPICAL STEEL DETAILS S5.13 TYPICAL STEEL DETAILS S5.21 TYPICAL COLD-FORMED STEEL DETAILS S5.22 TYPICAL COLD-FORMED STEEL DETAILS

1/8" = 1'-0" Drawn by Author EHDD Job Number 20013

Sheet Title GENERAL NOTES

CONCRETE DELIVERED TO THE JOB SITE, BEARING THE FOLLOWING INFORMATION. REFER TO QUALITY a. MIX IDENTIFICATION, WEIGHT OF CEMENT, AGGREGATE, ADMIXTURES, WATER ADDED AT THE BATCH PLANT, WATER ADDED AT SITE (ONLY WITH ENGINEERS APPROVAL) 5. LABORATORY COMPRESSION TEST REPORTS FOR CONCRETE MIXES.

C. CONCRETE MATERIALS

1. CEMENTITIOUS MATERIALS AND AGGREGATES SHALL HAVE PROVEN HISTORY OF SUCCESSFUL USE TOGETHER, OR SUBMIT EVIDENCE SATISFACTORY TO ARCHITECT THAT AGGREGATE WILL NOT REACT

HARMFULLY IN PRESENCE OF ALKALIZE IN CEMENT. 2. CEMENTITIOUS MATERIAL: AN INTIMATE BLEND OF PORTLAND CEMENT AND FLY ASH AND/OR SLAG a. PORTLAND CEMENT: ASTM C150, TYPE II, LOW ALKALI (U.O.N.) b. FLY ASH: ASTM C618, CLASS F, EXCEPT MAXIMUM LOSS ON IGNITION SHALL BE 2.5% AND MAXIMUM RETAINED ON NO. 325 SIEVE SHALL BE 30% PLUS OR MINUS 2% c. GROUND GRANULATED BLAST FURNACE SLAG (SLAG): ASTM C989, GRADE 120

d. FLY ASH AND/OR SLAG CONTENT SHALL BE AS SPECIFIED IN THE SCHEDULE OF CONCRETE MIXES. 3. FINE AND COARSE AGGREGATES FOR NORMAL WEIGHT CONCRETE: ASTM C33, STANDARD AGGREGATES TO COMPLY WITH CBC SECTION 1903.1 AND ACI SECTION 3.

a. SAND EQUIVALENT SHALL NOT BE LESS THAN 75 WHEN TESTED IN ACCORDANCE WITH CALIFORNIA b. FINE AGGREGATE FOR PUMPED CONCRETE: ASTM C33, EXCEPT THE PERCENT PASSING THE #100 SIEVE SHALL RANGE FROM 5 TO 10%. c. COARSE AGGREGATE: CLEANNESS VALUE SHALL NOT BE LESS THAN 75 WHEN TESTED IN ACCORDANCE WITH CALIFORNIA CALTRANS TEST 227.

d. COARSE AGGREGATE FOR SHRINKAGE CONTROLLED CONCRETE: GRANITE OR LIMESTONE FROM RELIABLE SOURCE WITH PROVEN HISTORY OF USE IN SHRINKAGE CONTROLLED CONCRETE. 4. WATER REDUCING ADMIXTURE: PERMITTED TO FACILITATE CONCRETE PLACEMENT. ASTM C494, TYPE A. WRDA BY GCP APPLIED TECHNOLOGIES, MASTERPOZZOLITH 322 OR POLYHEED-N BY MASTER BUILDERS,

INC.. OR APPROVED EQUAL 5. HIGH RANGE WATER REDUCING ADMIXTURE: USE IF SPECIFIED. ASTM C494, TYPE F OR G. ADVA FLOW, WRDA-19 OR DARACEM-100 BY GCP APPLIED TECHNOLOGIES, RHEOBUILD -3000FC OR RHEOBUILD-1000 BY MASTER BUILDERS, INC., OR APPROVED EQUAL 6. AIR ENTRAINMENT: ASTM C260. DO NOT EXCEED 4%. DARVAIR 1000 BY GCP APPLIED TECHNOLOGIES

MICRO-AIR BY MASTER BUILDERS, INC. OR EQUAL. 7. GRANULAR BASE: ¾" CLEAN CRUSHED ROCK WITH NO MORE THAN 5% PASSING NO. 200 SIEVE. 8. VAPOR RETARDER: STEGOWRAP BY STEGO IND., ASTM E1745, Class A. 15 MIL. 9. MAT FOUNDATION AND RETAINING WALL WATER PROOFING. SEE ARCHITECTURAL DRAWINGS FOR

RECOMMENDATIONS 10. SAND: CLEAN 100% PASSING NO. 4 AND 5% MAX PASSING NO. 200 SIEVES. 11.LIQUID MEMBRANE-FORMING CURING COMPOUND: ASTM C309, TYPE 1B; , CLASS WATER-BASED,

DISSIPATING RESIN. PRODUCT: AQUA RESIN CURE BY BURKE CO. OR EQUAL. 12. REINFORCING STEEL: ASTM A615 GRADE 60, TYPICAL. 13.EPOXY-COATED REINFORCING STEEL: ASTM A775/A775M OR ASTM A615 WITH EPOXY COATING BY A CRSI CERTIFIED COATING PLANT. BAR SUPPORTS, TIES AND SPREADERS IN CONTACT WITH EPOXY-COATED REBAR SHALL BE EPOXY-COATED. FIELD MODIFICATION OF BARS IS NOT ALLOWED. EPOXY-COATED REBAR SHALL NOT BE STORED TOGETHER WITH UNCOATED CARBON STEEL REBAR AND BE PROTECTED FROM CONDENSATION AND CORROSIVE MATERIALS.

D. CONCRETE MIXES

1. CONCRETE PROPORTIONING AND PLACEMENT SHALL BE IN ACCORDANCE WITH CBC SECTION 1905 AND APPLICABLE ACI CODES AND STANDARDS. 2. CONCRETE MIXES SHALL BE DESIGNED BY A TESTING LABORATORY OR BY A RECOGNIZED SUPPLIER. 3. MIX DESIGNS SHALL CONFORM TO APPLICABLE BUILDING CODE REQUIREMENTS, REGARDLESS OF ANY OTHER MINIMUM REQUIREMENTS LISTED HEREIN OR ON THE DRAWINGS. COMPLY WITH CBC SECTION

4. SCHEDULE OF CONCRETE MIXES: STRENGTH AGGREGATE SLUMP REQUIREMENTS MIX TYPE USE A FOUNDATIONS 3000 SIZE 57 (1") 3-5 d.3,.5 B S.O.G., CURBS 3500 SIZE 57 (1") 2-4 d.1..2..3..4..5 a. STRENGTH: MINIMUM COMPRESSIVE STRENGTH IN PSI AFTER 28 DAYS, EXCEPT STRENGTH AFTER 56 DAYS FOR MIXES CONTAINING A MINIMUM OF 15 PERCENT FLY ASH, TESTED IN ACCORDANCE WITH

b. AGGREGATE: COARSE AGGREGATE SIZE NUMBER IN ACCORDANCE WITH ASTM C33 FOR NORMAL-WEIGHT AGGREGATE. c. SLUMP: MINIMUM-MAXIMUM SLUMP AT POINT OF PLACEMENT IN INCHES WHEN TESTED IN ACCORDANCE WITH ASTM C143. SEE "OTHER REQUIREMENTS" FOR SLUMP WITH HIGH RANGE WATER REDUCER. d. OTHER REQUIREMENTS (APPLY ONLY AS NOTED IN SCHEDULE OF CONCRETE MIXES):

d.1. FLY ASH AND/OR SLAG SHALL MAKE UP 25% TO 50% OF TOTAL CEMENTITIOUS MATERIAL WITH FLY ASH CONTENT NOT TO EXCEED 25% OF TOTAL CEMENTITIOUS MATERIAL. d.2. SHRINKAGE CONTROLLED CONCRETE: USE GRANITE OR LIMESTONE AGGREGATES. PROPORTION MIX TO MINIMIZE DRYING SHRINKAGE.

d.3. CEMENT FACTOR: MATERIAL CONTENT-540 POUNDS PER CUBIC YARD.

d.4. MIX SHALL CONTAIN SPECIFIED HIGH RANGE WATER REDUCING ADMIXTURE (HRWR). THE CONCRETE SHALL BE PROPORTIONED WITHOUT HRWR TO ACHIEVE A SLUMP OF 1 TO 3 INCHES AT THE MIXER, ADD HRWR TO ACHIEVE THE DEGREE OF WORKABILITY NECESSARY FOR PLACEMENT, NOT TO EXCEED 8 INCHES SLUMP AT THE POINT OF PLACEMENT. d.5. WATER CEMENT RATIO: MIX SHALL HAVE A WATER TO CEMENTITIOUS MATERIAL RATIO BY WEIGHT NOT EXCEEDING 0.50 FOR FOUNDATIONS AND 0.40 FOR SLAB-ON-GRADE AND CURBS.

E. PLACEMENT

1. SPRAY FORMS WITH WATER IMMEDIATELY PRIOR TO CASTING. THOROUGHLY WET SUBGRADE PRIOR TO PLACING FOUNDATION CONCRETE. MOISTEN, BUT DO NOT SATURATE, SAND OR ROCK UNDER SLAB-ON-GRADE OR MAT FOUNDATION BEFORE PLACING CONCRETE.

2. PLACING CONCRETE: a. CONSOLIDATE PLACED CONCRETE BY MECHANICAL VIBRATING. NO VIBRATING OF FORM IS ALLOWED. USE EQUIPMENT AND PROCEDURES FOR CONCRETE CONSOLIDATION COMPLYING WITH ACI 309. 3. DELIVERY TICKETS: SUBMIT 1 COPY OF DELIVERY TICKETS, AS REQUIRED BY ASTM C94 CURRENT EDITION, TO THE ARCHITECT.

4. SLAB FINISHES a. SLAB-ON-GRADE: AS DIRECTED BY ARCHITECT. OBTAIN WRITTEN DIRECTION PRIOR TO PLACEMENT. b. MAT FOUNDATION: AS DIRECTED BY ARCHITECT. OBTAIN WRITTEN DIRECTION PRIOR TO PLACEMENT.

c. EXTERIOR SLABS: NONSLIP BROOM.

F. CURING AND PROTECTION

1. GENERAL: START INITIAL CURING AS SOON AS FREE WATER HAS DISAPPEARED FROM THE CONCRETE SURFACE AFTER PLACING AND FINISHING. KEEP CONCRETE CONTINUOUSLY MOIST FOR SEVEN DAYS

2. CURING METHODS: ACCOMPLISH CURING BY MOIST CURING, MOISTURE RETAINING COVER, COMPOUND CURING, OR BY COMBINATION OF THESE METHODS. 3. LIQUID MEMBRANE-FORMING COMPOUND CURING: APPLY COMPOUND AS SOON AS FINAL FINISHING OPERATIONS ARE COMPLETE (WITHIN 1 HOUR AFTER SURFACE SHEEN HAS DISAPPEARED). UNIFORMLY APPLY TWO COATS OF COMPOUND IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

G. CONSTRUCTION OR SAWCUT JOINTS

1. IF JOINT PATTERN IS NOT SHOWN FOR SLAB-ON-GRADE, PROVIDE JOINTS TO CREATE APPROXIMATELY SQUARE PANELS NOT EXCEEDING 15 FEET IN BOTH DIRECTIONS AND LOCATED TO CONFORM TO BAY SPACING WHENEVER POSSIBLE. (COLUMN CENTERLINES, HALF BAYS, ETC.) 2. SAWCUT AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT AGGREGATES BEING DISLODGED BY SAW BUT WITHIN 12 HOURS OF PLACEMENT. 3. PERFORM ALL CUTS CLEANLY AND SMOOTHLY TO A CONSTANT AND EQUAL DEPTH IN AS CONTINUOUS AN OPERATION AS POSSIBLE TO AVOID MISALIGNMENT OF JOINTS. USE ONLY EXPERIENCED PERSONNEL AND FORMS OR TEMPLATES AS REQUIRED TO ACHIEVE CONSISTENT STRAIGHT LINES.

H. QUALITY ASSURANCE

1. THE OWNER'S TESTING AND INSPECTION LABORATORY WILL: a. REVIEW MIX DESIGNS AND CERTIFICATES OF COMPLIANCE FOR MATERIALS CONTRACTOR PROPOSES TO USE, TWO WEEKS MINIMUM IN ADVANCE OF FIRST POUR. b. INSPECT REINFORCING BAR PLACEMENT FOR CONFORMANCE WITH CONSTRUCTION DRAWINGS.

c. COLLECT AND REVIEW TICKETS FOR EACH BATCH OF CONCRETE DELIVERED TO JOB SITE. c. INSPECT CONCRETE PLACEMENT AS REQUIRED BY CBC SECTION 1704. d. SLUMP: ASTM C143; ONE TEST AT POINT OF PLACEMENT AT START OF EACH DAY'S POUR; ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO HAVE CHANGED.

e. COMPRESSIVE STRENGTH: TEST CONCRETE FOR COMPRESSIVE STRENGTH IN ACCORDANCE WITH CBC

SECTION 1705.3, ASTM C39; I. STRUCTURAL STEEL SPECIFICATION

A. GENERAL

1. CODE: COMPLY WITH ANSI/AISC 360-10 & ASSOCIATED RCSC, AND ANSI/AISC 341-10 FOR ALL TOLERANCES, EDGE DISTANCES, SPACING, MINIMUM WELD SIZES, AND OTHER DETAILS & INFORMATION NOT PROVIDED

2. AESS: COMPLY WITH ANSI/AISC 303-10 FOR ALL EXPOSED STEEL 3. SEE "STEEL FRAMING NOTES" ON SHEET S5.1 FOR ADDITIONAL STEEL FRAMING REQUIREMENTS.

B. MATERIALS

1. GENERAL: ALL STEEL SHALL BE IDENTIFIED AS REQUIRED BY CBC SECTION 2203.1. STEEL WHICH IS NOT PROPERLY IDENTIFIED SHALL BE TESTED TO SHOW CONFORMANCE WITH REQUIREMENTS OF APPLICABLE ASTM STANDARD AT CONTRACTOR'S EXPENSE. PLATES: A36 OR A572 GR. 50

1. SHAPES: W,WT C,MC,L A325-N 2. HIGH STRENGTH BOLTS: MACHINE BOLTS:

A307, A36, OR F1554 GR. 36 (EXCEPT AS OTHERWISE NOTED). 4. ANCHOR BOLTS 5. STRUCTURAL TUBES: A500, GR. B (46 KSI)

HSS ROUND A500, GR. B (42 KSI) A53, TYPE S, GR. B 8. WELDING FILLER MATERIAL: AWS D1.1; TYPE REQUIRED FOR BASE METALS BEING WELDED. ELECTRODES

SHALL BE E70XX, LOW HYDROGEN, UNLESS OTHERWISE NOTED.

C. EXECUTION

a. FABRICATE STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH AISC SPECIFICATIONS, AISC CODE AND THE CALIFORNIA BUILDING CODE. b. DRILL (DO NOT PUNCH) HOLES CENTERED 6" OR LESS FROM AN EDGE TO BE COMPLETE PENETRATION

c. ALL WELDS SHALL BE IN ACCORDANCE WITH AISC SPECIFICATION USING MANUAL SHIELDED METAL ARC WELDING METHOD (SMAW) OR FLUX CORED ARC WELDING (FCAW) METHOD IN ACCORDANCE WITH AWS D1.1. WELD IN ACCORDANCE WITH WELDING PROCEDURE SPECIFICATIONS (WPS) PREPARED BY

d. IN ADDITION TO SPECIAL CARE USED TO HANDLE AND FABRICATE AESS, COMPLY WITH THE FOLLOWING: 1. FABRICATE WITH EXPOSED SURFACES SMOOTH, SQUARE, AND FREE OF SURFACE BLEMISHES.

2. GRIND SHEARED, PUNCHED, AND FLAME-CUT EDGES SMOOTH. 3. FABRICATE WITH EXPOSED SURFACES FREE OF MILL MARKS. 4. FABRICATE WITH EXPOSED SURFACES FREE OF SEAMS TO MAXIMUM EXTENT POSSIBLE. 5. REMOVE BLEMISHES BY FILLING OR GRINDING OR BY WELDING AND GRINDING, BEFORE CLEANING,

TREATING, AND SHOP PRIMING. 6. FABRICATE WITH PIECE MARKS FULLY HIDDEN IN THE COMPLETED STRUCTURE OR MADE WITH MEDIA THAT PERMITS FULL REMOVAL AFTER ERECTION. 7. FABRICATE TO THE TOLERANCES SPECIFIED IN AISC 303 FOR STEEL THAT IS AESS.

e. COPING, BLOCKING, AND JOINT GAPS: MAINTAIN UNIFORM GAPS OF 1/8 INCH (3.2 MM) WITH A TOLERANCE OF 1/32 INCH (0.8 MM). f. WELD CONNECTIONS: USE WELD SIZES, FABRICATION SEQUENCE, AND EQUIPMENT THAT LIMIT

DISTORTIONS TO ALLOWABLE TOLERANCES. 1. PROVIDE CONTINUOUS, SEALED WELDS AT EDGES WHERE PLATES AND/OR MEMBER JOIN AND ARE 4. PROVIDE CONTINUOUS WELDS OF UNIFORM SIZE AND PROFILE WHERE AESS IS WELDED.

5. GRIND BUTT AND GROOVE WELDS FLUSH TO ADJACENT SURFACES WITHIN TOLERANCE OF PLUS 1/16 INCH, MINUS O INCH (PLUS 1.5 MM, MINUS O MM). 6. MAKE BUTT AND GROOVE WELDS FLUSH TO ADJACENT SURFACES WITHIN TOLERANCE OF PLUS 1/16 INCH, MINUS O INCH (PLUS 1.5 MM, MINUS O MM). DO NOT GRIND UNLESS REQUIRED FOR CLEARANCES OR FOR

FITTING OTHER COMPONENTS, OR UNLESS DIRECTED TO CORRECT UNACCEPTABLE WORK. 7. REMOVE BACKING BARS OR RUNOFF TABS; BACK-GOUGE AND GRIND STEEL SMOOTH. 8. AT LOCATIONS WHERE WELDING ON THE FAR SIDE OF AN EXPOSED CONNECTION OF AESS OCCURS, GRIND DISTORTIONS AND MARKING OF THE STEEL TO A SMOOTH PROFILE ALIGNED WITH ADJACENT MATERIAL. 9. MAKE FILLET WELDS OVERSIZE AND GRIND TO UNIFORM PROFILE WITH SMOOTH FACE AND TRANSITION. 10.MAKE FILLET WELDS OF UNIFORM SIZE AND PROFILE WITH EXPOSED FACE SMOOTH AND SLIGHTLY

CONCAVE. DO NOT GRIND UNLESS DIRECTED TO CORRECT UNACCEPTABLE WORK. q. SHOP PRIME STEEL SURFACES EXCEPT THE FOLLOWING: 1. SURFACES EMBEDDED IN CONCRETE OR MORTAR. EXTEND PRIMING OF PARTIALLY EMBEDDED MEMBERS TO A

DEPTH OF 2 INCHES (50 MM). 2. SURFACES TO BE FIELD WELDED.

3. SURFACES TO BE HIGH-STRENGTH BOLTED WITH SLIP-CRITICAL CONNECTIONS.

4. SURFACES TO RECEIVE SPRAYED FIRE-RESISTIVE MATERIALS. h. PRIMING: IMMEDIATELY AFTER SURFACE PREPARATION, APPLY PRIMER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AND AT RATE RECOMMENDED BY SSPC TO PROVIDE A MINIMUM DRY FILM THICKNESS OF 1.5 MILS (0.038 MM). USE PRIMING METHODS THAT RESULT IN FULL COVERAGE OF JOINTS, CORNERS, EDGES, AND EXPOSED SURFACES.

D. QUALITY ASSURANCE

1. FABRICATOR SHALL PREPARE WELDING PROCEDURE SPECIFICATIONS (WPS). 2. QUALIFY WELDING PROCEDURES AND WELDING OPERATORS IN ACCORDANCE WITH AWS D1.1

"OUALIFICATION" REQUIREMENTS. 3. MOCK-UPS: BUILD MOCKUPS OF EACH CONDITION OF ARCHITECTURALLY EXPOSED STRUCTURAL STEEL TO SET QUALITY STANDARD FOR FABRICATION AND INSTALLATION.

4. TESTING LABORATORY WILL: a. REVIEW MANUFACTURER'S TEST REPORTS FOR COMPLIANCE WITH SPECIFIED REQUIREMENTS b. VERIFY MATERIAL IDENTIFICATION.

c. INSPECT WELDING AS REQUIRED BY CBC SECTION 1705.2 IN ACCORDANCE WITH AWS D1.1 5. ARCHITECT WILL: OBSERVE AESS IN PLACE TO DETERMINE ACCEPTABILITY.

LIGHT GAUGE STEEL SPECIFICATIONS

A. COLD FORM STEEL USED FOR STUDS, TRACK, BLOCKING, GUSSETS, BRACE STRAPS, ETC. SHALL MEET THE REQUIREMENTS OF THE STEEL STUD MANUFACTURERS ASSOCIATION SSMA) ES EVALUATION REPORT No. 3064P DATED FEBRUARY 2014 SEE DETAIL SHEETS FOR SIZES AND THICKNESS REQUIREMENTS. B. COLD FORM STEEL STUD FRAMING SHALL CONFORM TO THE FOLLOWING:

54 MIL AND HEAVIER-ASTM A653 SS (50 ksi MINIMUM YIELD) 43 MIL AND LIGHTER-ASTM A653 SS (33 ksi MINIMUM YIELD) EXTERIOR MEMBERS : GALVANIZED G60 MIN.

C. ALL STEEL STUDS, JOIST & TRACK SHALL HAVE A LEGIBLE LABEL, STAMP OR EMBOSSMENT, AT A MAXIMUM OF 48 "O.C., INDICATING THE MANUFACTURER'S NAME, LOGO OR INITIALS, EVALUATION SERVICE REPORT NUMBER, THE MATERIAL BASE METAL THICKNESS (UNCOATED) IN .001 In. AND THE YIELD STRENGTH IF DIFFERENT THAN 33 ksi.

D. MILL CERTIFICATES FROM THE COIL PRODUCER SHALL BE MADE AVAILABLE IF REQUESTED. MILL CERTIFICATE TO INCLUDE AS A MINIMUM THE CHEMICAL COMPOSITION, YIELD STRENGTH, TENSILE STRENGTH, ELONGATION, AND COATING THICKNESS.

E. ALL SECTIONS TO REMAIN UNPUNCHED EXCEPT WALL STUDS MAY BE PUNCHED IN ACCORDANCE WITH ICC HOLE SIZE AND SPACING LIMITATIONS. F. LATERAL BRIDGING OF COLD FORM STEEL STUDS IS REQUIRED WHEN SHEATHING, INSTALLED DOES NOT

CONTINUE FULL HEIGHT ON BOTH SIDES. FOR BRIDGING INSTALLATION SEE TYPICAL DETAIL SHEET.

G. COLD FORM STEEL STUDS SHALL HAVE FULL BEARING AGAINST INSIDE TRACK WEB PRIOR TO STUD AND TRACK ATTACHMENT. STUDS AND TRACKS SHALL BE ATTACHED BY WELDING OR 2-#8 SELF DRILLING SCREWS (ONE EA. FLANGE).

H. PRE-MANUFACTURED HANGERS, CLIPS, ETC. SHALL MEET THE REQUIREMENTS OF "SIMPSON" OR EQUIVALENT.

I. VERTICLIP SL/SLD BY THE STEEL NETWORK ICC ESR-1903.

J. SELF-DRILLING FASTENERS HAVE BEEN DESIGNED IN ACCORDANCE WITH AISI "SPECIFICATION PROVISIONS FOR SCREW CONNECTIONS". FASTENERS SHALL BE #8 SMS U.O.N. ALL SCREWS TO BE GALVANIZED OR CORROSION RESISTANT. SCREWS SHALL CONFORM TO S.A.E. J78.

K. WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS IN A FABRICATION SHOP. ALL WELDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST AWS D1.3 CODE. 1. 43 MIL AND LIGHTER SHEET TO SHEET - F60XX

2. 54 MIL AND HEAVIER SHEET TO SHEET - E70XX

L. BUTT WELDS ON SPLICES SHALL BE USED AT ALL JOINTS IN TRACK. SPLICES IN STUDS OR BRACES SHALL NOT BE PERMITTED. WHERE STUDS ARE BURNED THROUGH BY WELDING PROVIDE SUITABLE STITCH PLATE OF SAME THICKNESS.

M. SEE ADDITIONAL NOTES ON DET. 1/S5.41.

VII. EPOXY ADHESIVE SPECIFICATION

a. EPOXY SHALL BE SIMPSON SET-XP TYPE EPOXY (ICC-ES ESR-2508) INSTALLED IN CONFORMANCE WITH THE MANUFACTURERS SPECIFICATION AND ICC-ES ESR-2508 OR APPROVED EQUAL.

VIII. NON-SHRINK GROUT SPECIFICATION

1. NON-SHRINK GROUT SHALL BE FLOWABLE, WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT (3) a. NON-SHRINK GROUT SHALL BE MASTERFLOW 100 AS MANUFACTURED BY BASF MASTER BUILDERS OR APPROVED EQUAL.

PLACEMENT a. PLACE GROUT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS b. GROUT SHALL NOT BE PLACED IN LIFTS GREATER THAN 6 INCHES

CURING a. CURE GROUT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS

b. CURE EXPOSED GROUT SHOULDERS BY WET CURING FOR 24 HOURS c. APPLY MEMBRANE CURING COMPOUND APPROVED BY GROUT MANUFACTURER AND COMPLIANT WITH

ASTM C309 SPECIAL INSPECTIONS SPECIFICATIONS

SPECIAL INSPECTIONS AND TESTING WILL BE PERFORMED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, THE ATTACHED "STATEMENT OF SPECIAL INSPECTION" AND CBC SECTIONS 1704, 1705.

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC FORCE RESISTING SYSTEM. DESIGNATED SEISMIC SYSTEM OR A SEISMIC RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF THE WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.

VERIFICATION/INSPECTION TYPE

. REINFORCING BAR WELDING:

CONCRETE CONSTRUCTION— SEE TABLE 1705.3

<u>C. INSPECT ALL OTHER WELDS</u>

. VERIFY USE OF REQUIRED DESIGN MIX.

INSPECT PRESTRESSED CONCRETE FOR:

CONCRETE MEMBER BEING FORMED

INSPECTION OF HIGH-STRENGTH BOLTING

'ERIFICATION/INSPECTION TYPE

DOCUMENTS

B. REINFORCING

VERIFICATION/INSPECTION TYPE

REACHED PROPER MATERIAL.

SOILS - SEE CBC2016 SECTION 1705.6

ACHIEVE THE DESIGN BEARING CAPACITY.

VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.

INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY

B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM  $\frac{5}{6}$ "; AND;

. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS

A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY

. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH

TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE

. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND

A. APPLICATION OF PRESTRESSING FORCES; AND

B. GROUTING OF BONDED PRESTRESSING TENDONS

INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.

STEEL CONSTRUCTION— SEE TABLE 1705A.2.1 AND TABLE 1705.3

AND FORMS FROM BEAMS AND STRUCTURAL SLABS

. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION

VERIFY IN—SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS

IN POST-TENSIONED CONCRETE AND PRIOR TO THE REMOVAL OF SHORES

2. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE

A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS

SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.

B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED

B. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT

WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR

C. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT

WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF

. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD FORMED STEEL

B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO

A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN

. COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS

1. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER

2. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES

ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND

IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY

ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION

B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRE

A. STRUCTURAL STEEL AND COLD-FORMED STEEL DECK

A. DETAILS SUCH AS BRACING AND STIFFENING.
B. MEMBER LOCATIONS.

C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.

VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO

. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE

. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS. . VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES

DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.

5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND

C. MANUFACTURER'S CERTIFIED TEST REPORTS

MATERIAL VERIFICATION OF WELD FILLER MATERIALS

THE APPROVED CONSTRUCTION DOCUMENTS.

. MULTIPASS FILLET WELDS

THAN ASTM A 706.

SHEAR REINFORCEMENT

3. SHEAR REINFORCEMEN

4. OTHER REINFORCING S

A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO

INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.

B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a

A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;

2. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.

3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS.

4. IDENTIFICATION AND QUALIFICATION OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

STATEMENT OF SPECIAL INSPECTIONS

THESE PROVISIONS SHALL GOVERN THE QUALITY, WORKMANSHIP, AND REQUIREMENTS FOR WORK COVERED. MATERIALS OF CONSTRUCTION AND TESTS SHALL CONFORM TO THE APPLICABLE STANDARDS

B. <u>DEFINITIONS</u>

a. CONTINUOUS SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED. b. PERIODIC SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING

C. REFERENCE STANDARDS (EDITIONS ADOPTED BY CURRENT GOVERNING CALIFORNIA BUILDING CODE)

a. CBC — CALIFORNIA BUILDING CODE

b. AISC 341 - SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS; AMERICAN INSTITUTE OF STEEL CONSTRUCTION c. AISC 360 - SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS; AMERICAN INSTITUTE OF STEEL CONSTRUCTION

d. ACI 318 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY; AMERICAN CONCRETE INSTITUTE e. RCSC - SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS; RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS

f. AF & PA NDS - NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION D. THIS STATEMENT OF SPECIAL INSPECTION IS SUBMITTED IN FULFILLMENT OF THE REQUIREMENTS OF CBC SECTIONS 1704.3. THE FOLLOWING ATTACHMENTS SUMMARIZE THE SPECIAL INSPECTIONS AND STRUCTURAL TESTS REQUIRED FOR THIS PROJECT.

E. THESE REQUIREMENTS HAVE ALSO BEEN MADE PART OF THE APPROVED PLANS.

F. THE OWNER RECOGNIZES HIS OR HER OBLIGATION TO ENSURE THAT THE CONSTRUCTION COMPLIES WITH THE APPROVED PERMIT DOCUMENTS AND TO IMPLEMENT THIS PROGRAM OF SPECIAL INSPECTIONS. IN PARTIAL FULFILLMENT OF THESE OBLIGATIONS, THE OWNER WILL RETAIN AND DIRECTLY PAY FOR THE SPECIAL INSPECTIONS AS REQUIRED IN CBC SECTION 1704.2

REFERENCED SCHEDULES, AND THE RELEVANT CBC SECTIONS FOR DETAILED SPECIAL INSPECTION REQUIREMENTS. ANY ADDITIONAL TESTS AND INSPECTIONS REQUIRED BY THE APPROVED PLANS AND SPECIFICATIONS WILL ALSO BE PERFORMED. H. INTERIM INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND TO DAEDALUS STRUCTURAL ENGINEERING, INC. IN ACCORDANCE WITH CBC SECTION 1704.2.4. A FINAL REPORT OF

G. SPECIAL INSPECTORS WILL REFER TO THE APPROVED PLANS AND SPECIFICATIONS, THE ABOVE

SPECIAL INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS, TESTING, AND CORRECTION OF ANY DEFICIENCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.

I. THIS PLAN HAS BEEN DEVELOPED WITH THE UNDERSTANDING THAT THE BUILDING OFFICIAL WILL: a. REVIEW AND APPROVE THE QUALIFICATIONS OF THE SPECIAL INSPECTORS PERFORMING THE

b. MONITOR SPECIAL INSPECTION ACTIVITIES TO ASSURE COMPLIANCE WITH PROJECT REQUIREMENTS c. REVIEW SUBMITTED INSPECTION REPORTS

J. WIND + SEISMIC REQUIREMENTS (CBC SECTION 1705.10, 1705.11 AND 1705.12)

K. DESCRIPTION OF THE SEISMIC OR WIND LOAD RESISTING SYSTEM (SLRS) AND DESIGNATED LATERAL SYSTEMS SUBJECT TO SPECIAL INSPECTION IN ACCORDANCE WITH CBC SECTION 1705.3: 1704.3.2 &

L. THE EXTENT OF THE SEISMIC LOAD RESISTING SYSTEM IS DEFINED IN MORE DETAIL IN THE

SCHEDULE OF SPECIAL INSPECTIONS

d. PERFORM INSPECTION

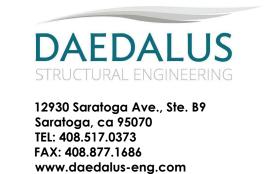
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CONTINUOUS PERIODIC

REFERENCED STANDARD

26.6.1-26.6.3

CBC 1908.4

AWS D1.4

ACI 318: 17.8.2

ACI 318; 17.8.2 ACI 318: CH. 19, 26.4.3, 26.4.4

ASTM C172, ASTM C3

ACI 318; 26.5, 26.12

CRC 1908 10

ACI 318: 26.5

ACI 318: 26.5.3-26.5.5

<u>CBC 1908.9</u>

ACI 318; 26.9

ACI 318: CH. 26.8

ACI 318: 26.11.2

ACI 318: 26.11.1.2(b)

REFERENCED STANDARD

APPLICABLE ASTM MATERIAL

AISC 360 SECTION M2.5,

CBC 1704A.3.3

APPLICABLE ASTM MATERIAL

STANDARDS

AISC 360 SECTION A3.5 a

APPLICABLE AWS A5

AWS D1.1

CBC 1704A.3.1

APPLICABLE ASTM MATERIAL

STANDARDS

AWS D1.4

ACI 318 SECTION 3.5.2

CBC 1704A.3.2

CBC 2016 SECTION 1705.6

CONTINUOUS PERIODIC REFERENCED STANDARD

X | CBC 1904.1., 1904.2, 1908.2,

ACI 318: 26.6.4

ACI 318: 17.8.2.4

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Revisions and Description Date

MM/DD/YYYY

1/8" = 1'-0" Drawn by Author EHDD Job Number

Sheet Title **GENERAL NOTES** 

Sheet Number

20013

(3.3)

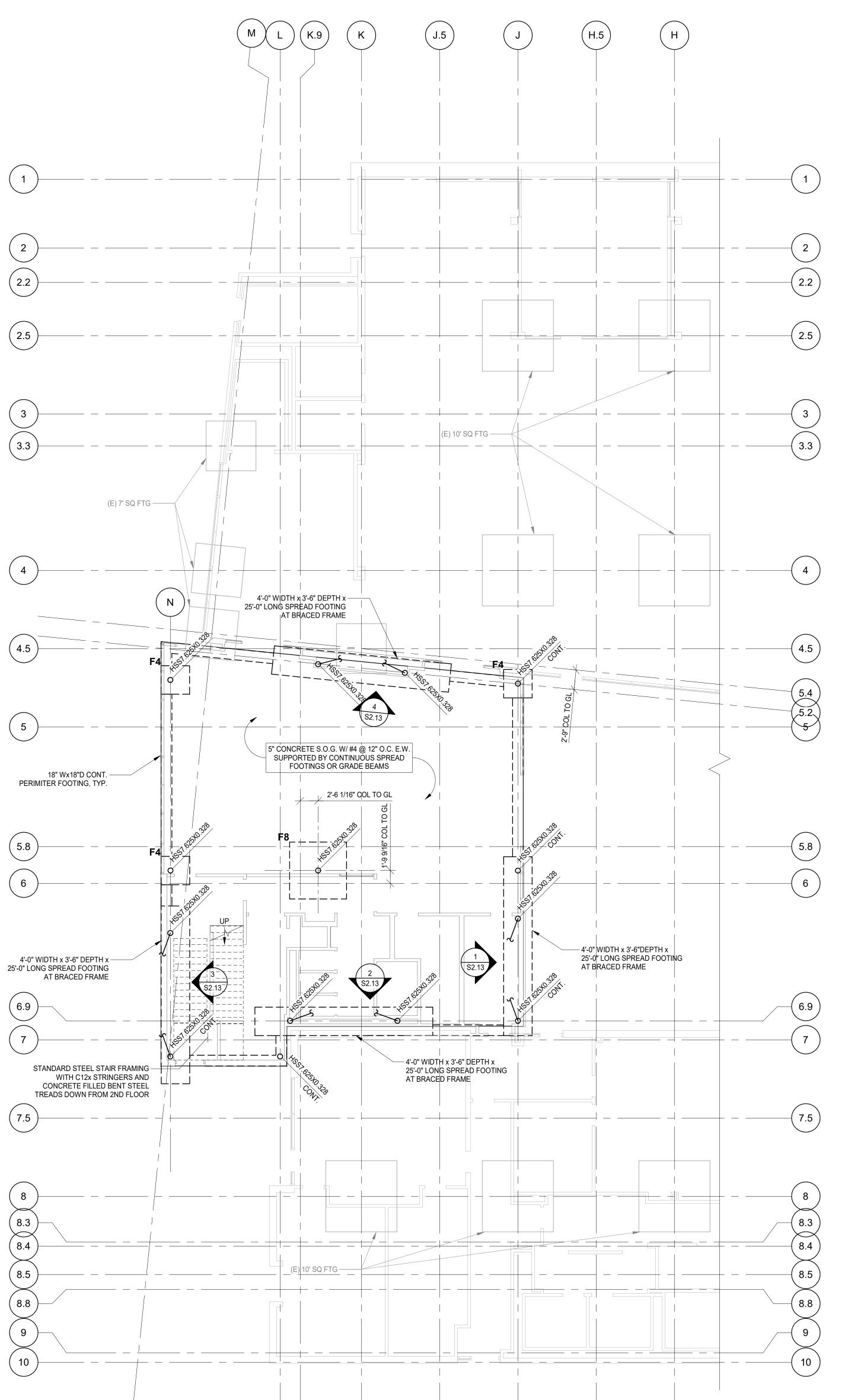
(H)

 $\left( H.5 \right)$ 

- VERCO 18 GA. PLW3 DECKING W/ 5

1/4" TOTAL LW CONCRETE DEPTH

1. SEE SHEET S1.12 FOR FOUNDATION PLAN NOTES



**Z** 

2 LEVEL 2 FRAMING PLAN

1/8" = 1'-0"

STANDARD STEEL STAIR FRAMING
WITH C12x STRINGERS AND
CONCRETE FILLED BENT STEEL
TREADS DOWN FROM 2ND FLOOR

1 LEVEL 1 FRAMING PLAN

1/8" = 1'-0"

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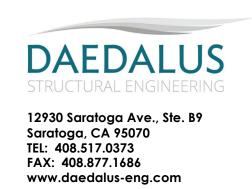
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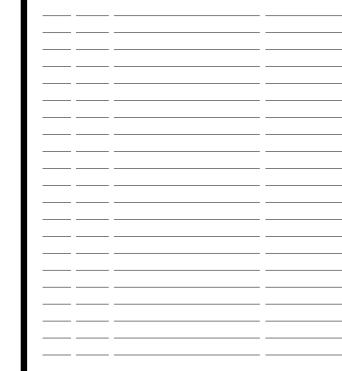


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Revisions and Description Date



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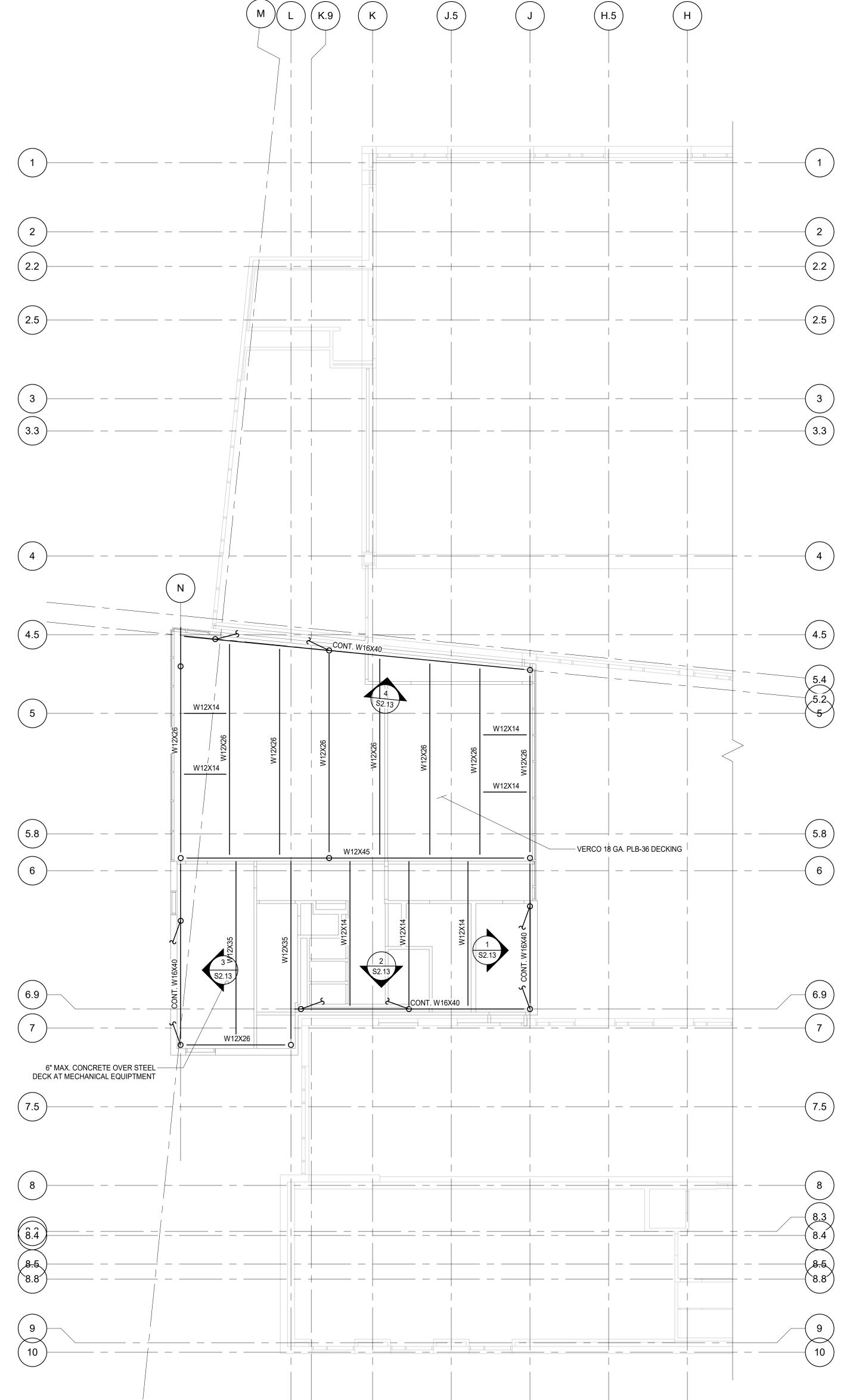
Sheet Title

LEVEL 1 AND 2

FRAMING PLANS

Sheet Number

S2.11



### FRAMING PLAN NOTES:

- 1. SEE GENERAL NOTES AND DETAILS ON SHEETS S0.01 AND S0.02.
- 2. SEE DRAWING OTHER THAN STRUCTURAL FOR FLOOR DEPRESSIONS, MECHANICAL, ELECTRICAL, AND SHAFT OPENINGS, ETC.
- 3. SEE DETAIL 20/S5.01 FOR ALLOWABLE HOLE PENETRATIONS THROUGH FRAMING MEMBERS.
- 4. SEE S5 STRUCTURAL SHEETS FOR TYPICAL STEEL AND CONNECTION DETAILS.
- 5. SEE S5.02 FOR DECK DETAILING REQUIREMENTS
- 6. T.O.STL =
- 7. AND/OR DENOTE STEP IN DECK ELEVATION
  AND/OR SLAB TYPE, PER PLAN
- 8. SHEAR STUD IS 3/4" DIA. AT 12" SPC'G, TYP. ALL BEAMS, U.O.N. ON PLAN BY [XX], IN WHICH "XX" DENOTES NUMBER OF STUDS REQ'D AND INDICATES THAT THE BEAM IS REQUIRES MORE STUDS THAN THE 12" O.C. SPACING PROVIDES
- 9. (C=X") DENOTES BEAM CAMBER AT MIDSPAN
- 10. ALL PERIMETER BEAMS TO BE BRACED AT 10'-0" O.C. SEE 16A/S5.02, NON SEISMIC CONN. TYP. U.O.N. ON PLAN, SEE NOTE 10.
- 11. WHERE DENOTED: ●-----> BRACE BOTT. FLANGE OF PERIMETER BEAM PER 20/S5.12, SEISMIC CONN.
- 12. WHERE DENOTED: BEAM IS PART OF THE LATERAL FORCE RESISTING SYSTEM, SEE LEGEND S0.01.
- 13. WHERE DENOTED SCBF FRAMING IS PART OF THE SEISMIC
  LATERAL FORCE RESISTING SYSTEM. SEE SHEET S2.13 FOR ADD'L
- INFORMATION.

  14. ASTERISK FOLLOWING STEEL POST/COLUMN SIZE INDICATES
  POST/COLUMN USED AS PART OF THE LATERAL FORCE RESISTING

SYSTEM SEE S0.01 FOR ADD'L REQUIREMENTS.

15. SEE S5.09 & S5.10 STRUCTRAL SHEETS FOR TYPICAL COLD-FORMED STEEL DETAILS, GC TO COORDINATE WITH SUBCONTRACTOR ON DETAILING.

## FOUNDATION PLAN NOTES:

- SEE GENERAL NOTES AND DETAILS ON SHEET S0.11 AND S0.12.
   SEE ARCHITECTURAL PLANS FOR ACTUAL FINISH FLOOR AND PAD ELEVATIONS.
- 3. EXCAVATIONS SHALL BE MADE AS NEAR AS POSSIBLE TO THE LINES REQUIRED BY THE FOOTING. NO MATERIAL IS TO BE OVER-EXCAVATED UNNECESSARILY.
- 4. VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE EXCAVATION. NOTIFY ARCHITECT PRIOR TO EXCAVATION IN THE EVENT SUCH UTILITIES ARE ENCOUNTERED.

5. FOR DRAINAGE DETAILS, SUMPS, PITS, DAMPROOFING, TRENCHES, CURBS,

- EXTERIOR WALKS, UTILITIES, EQUIPMENT DETAILS, STEPS, DIMENSIONS NOT SHOWN, ETC., SEE DRAWINGS OTHER THAN STRUCTURAL.

  6. SETBACK CONDITIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO TRENCHING AND FORMING FOUNDATION. THE FOUNDATION
- TRENCHING AND FORMING FOUNDATION. THE FOUNDATION SUBCONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR, SURVEYOR AND THE ARCHITECT.

  7. GEOTECHNICAL ENGINEER SHALL BE RETAINED TO PROVIDE
- TESTING REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT.

  8. IF NON-NATIVE FILL, EXPANSIVE CLAY OR SOFT/LOOSE SOIL IS ENCOUNTERED AT THE BASE OF STEPPED FOUNDATION, THAT THE SOIL WILL BE REMOVED (OVER-EXCAVATED) AND REPLACED WITH EITHER COMPACTED AGGREGATE BASEROCK OR LEAN CONCRETE AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

OBSERVATION AND TESTING SERVICES DURING THE GRADING AND FOUNDATION PHASE OF CONSTRUCTION, AND THAT INSPECTION AND

- 9. T.O. FOOTING IS MIN. [-0'-6"] BELOW TOP OF SLAB, U.O.N. ON PLAN
- 10. WHERE DENOTED TO.FTG IS [-0'-6"] BELOW TOP OF SLAB,

  TYP. SEE 1/S3.XX FOR FOOTING SCHEDULE.
- 11. COLUMN SIZE PER PLAN, WHERE [XX] THE FOLLOWING DENOTES:
  [2] = TOP OF COLUMN TERMINATES AT 2ND FL T.O.S.
  [R] = TOP COLUMN TERMINATES AT ROOF T.O.S.
- 12. WHERE DENOTED SCBF FRAMING IS PART OF THE LFRS. SEE SHEETS S2.13 FOR ADD'L INFORMATION.
- 13. ASTERISK FOLLOWING STEEL POST/COLUMN SIZE INDICATES POST/COLUMN USED AS PART OF THE LATERAL FORCE RESISTING SYSTEM SEE S0.11 FOR ADD'L REQUIREMENTS.

Z

ROOF FRAMING PLAN

1/8" = 1'-0"

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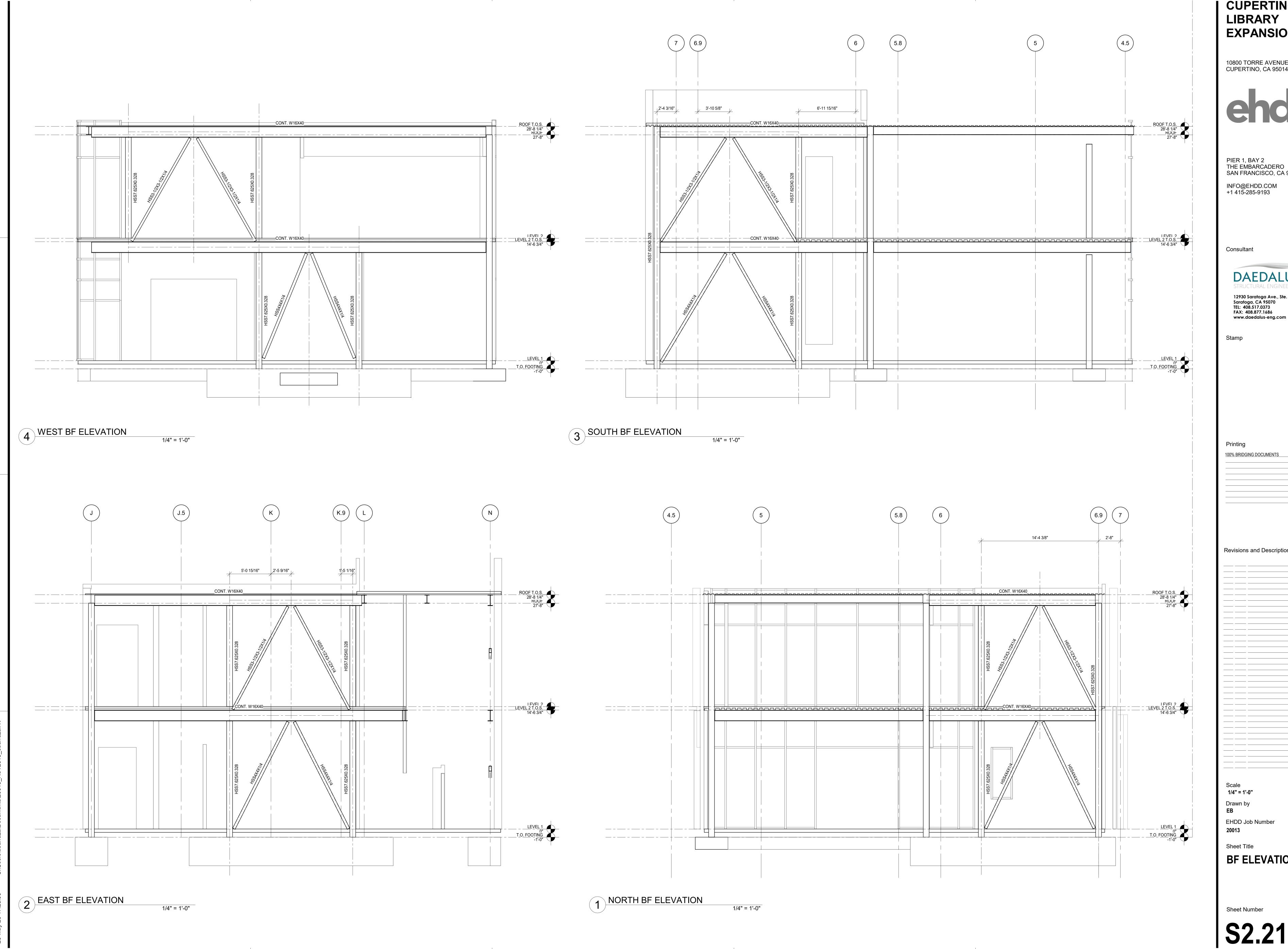
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20013
Sheet Title
ROOF FRAMING

Sheet Number

**PLAN** 

**S2.12** 

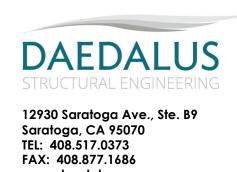


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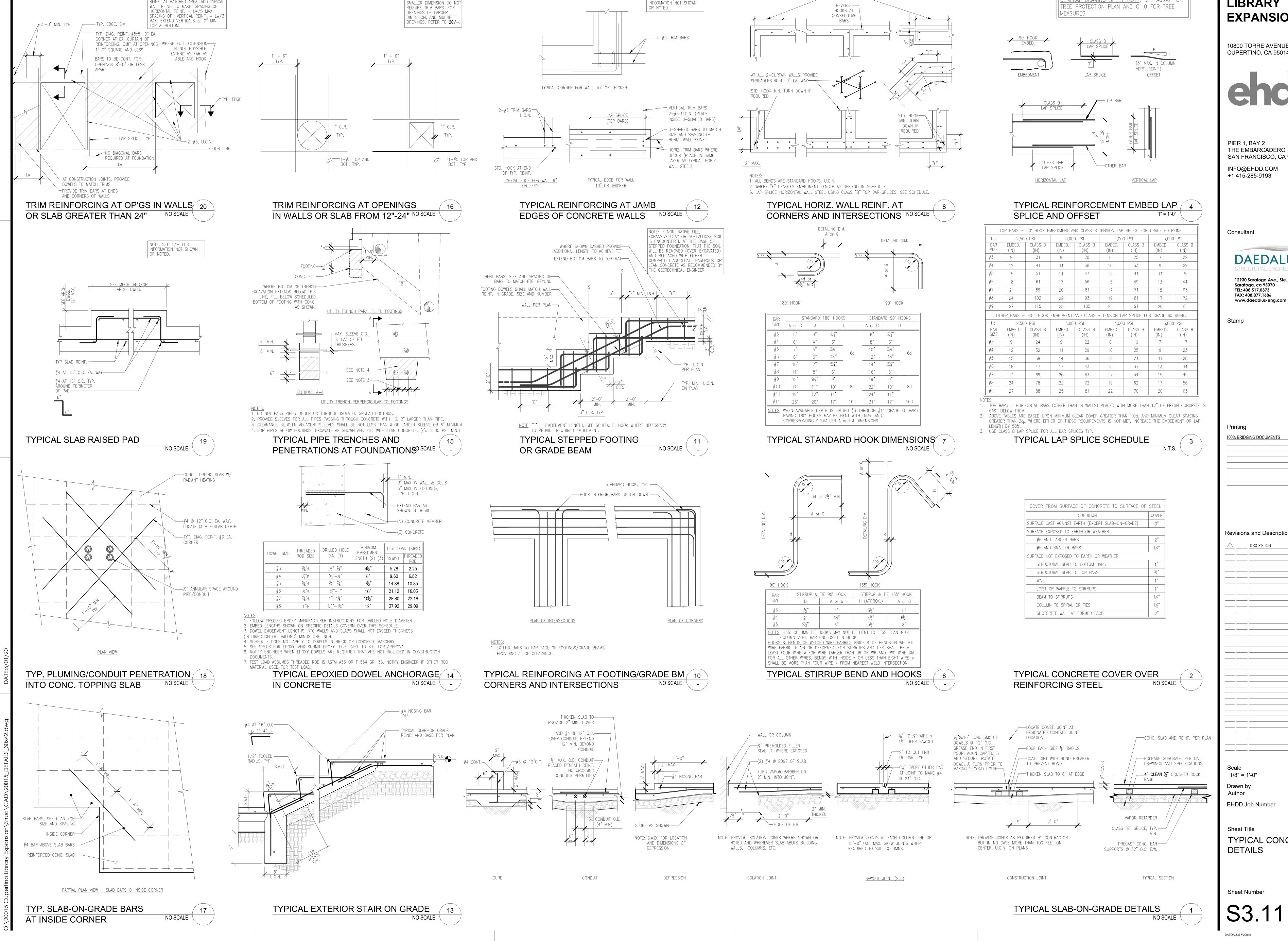
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Sheet Title **BF ELEVATIONS** 



NOTE: SEE 8/- FOR

NOTE: SEE 12/- FOR EDGE OF WALL

REINF. AT HATCHED AREA, ADD TYPICAL

NOTE: SINGLE OPENINGS OF

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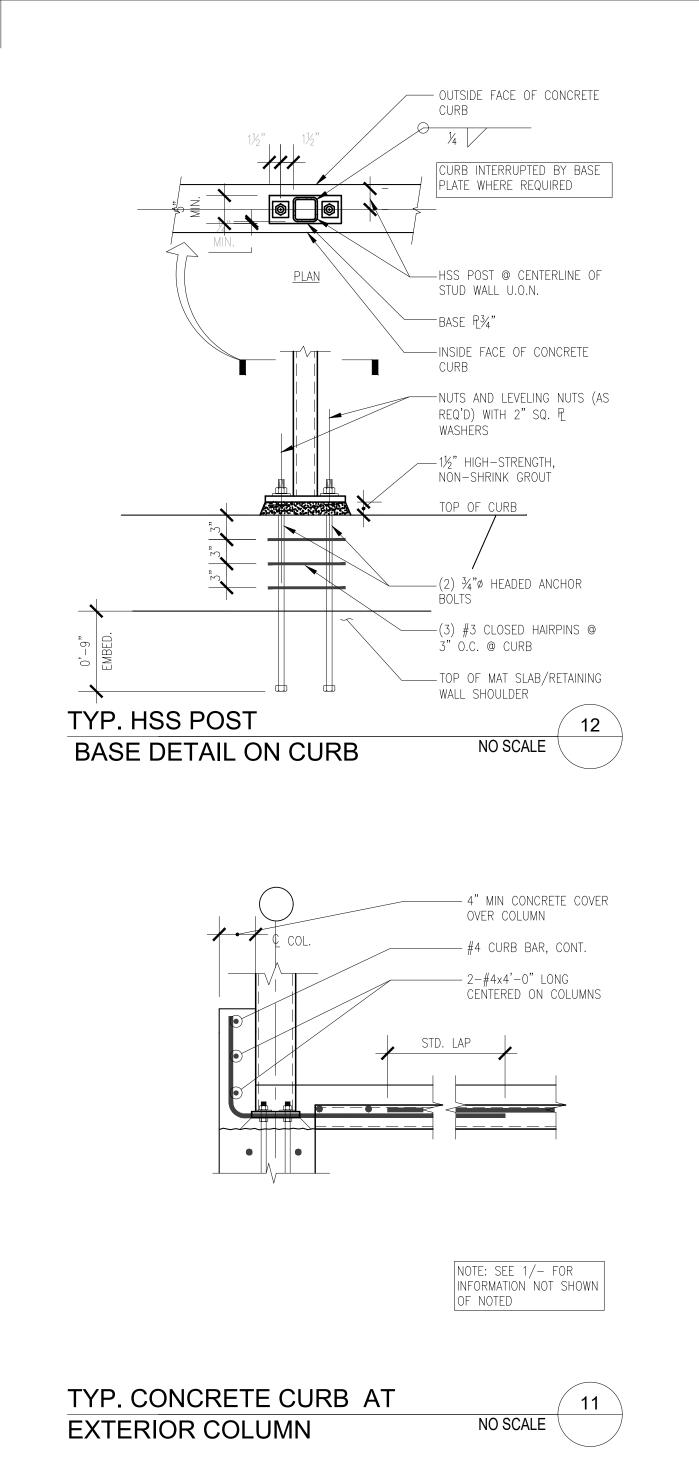


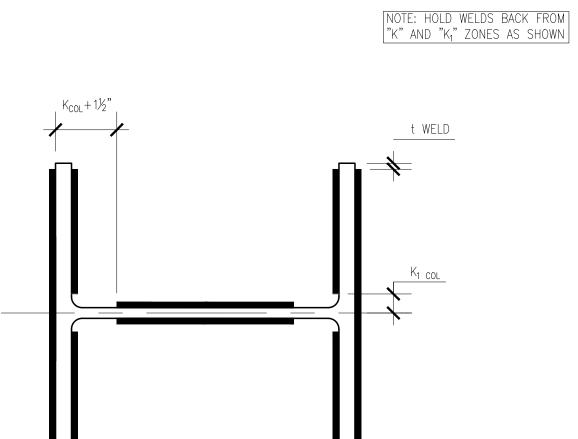
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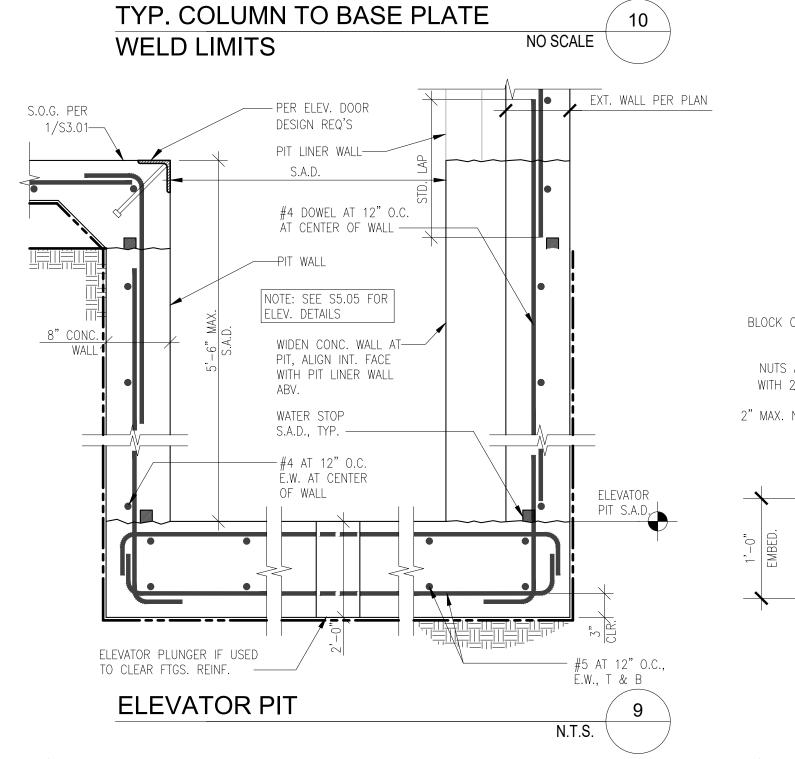
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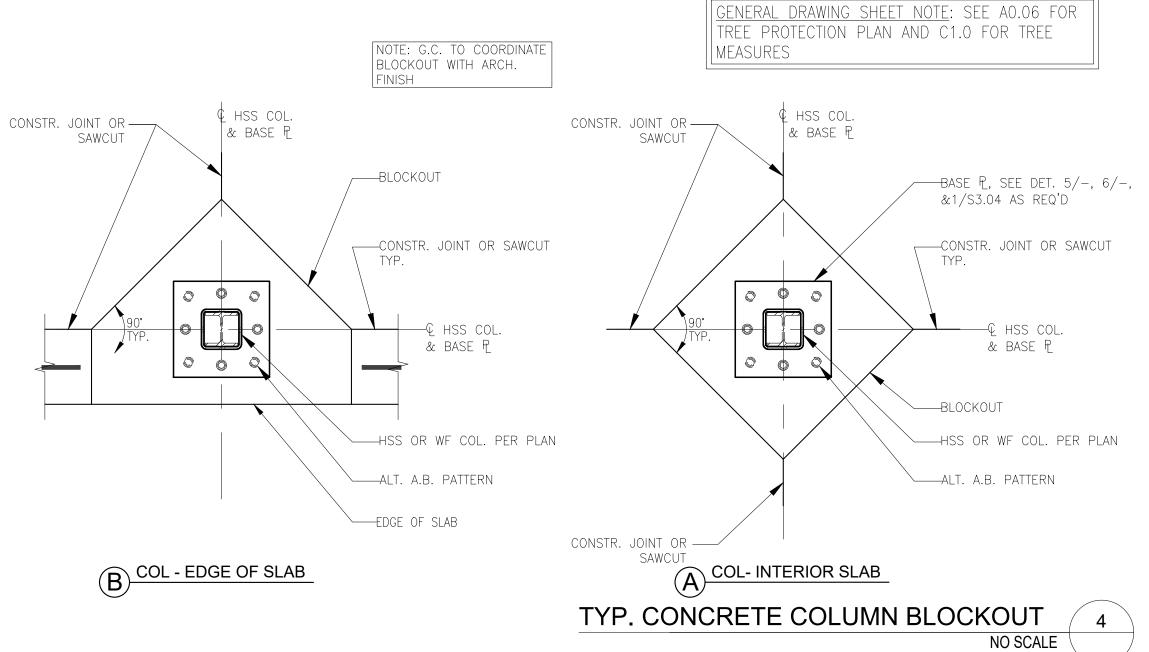
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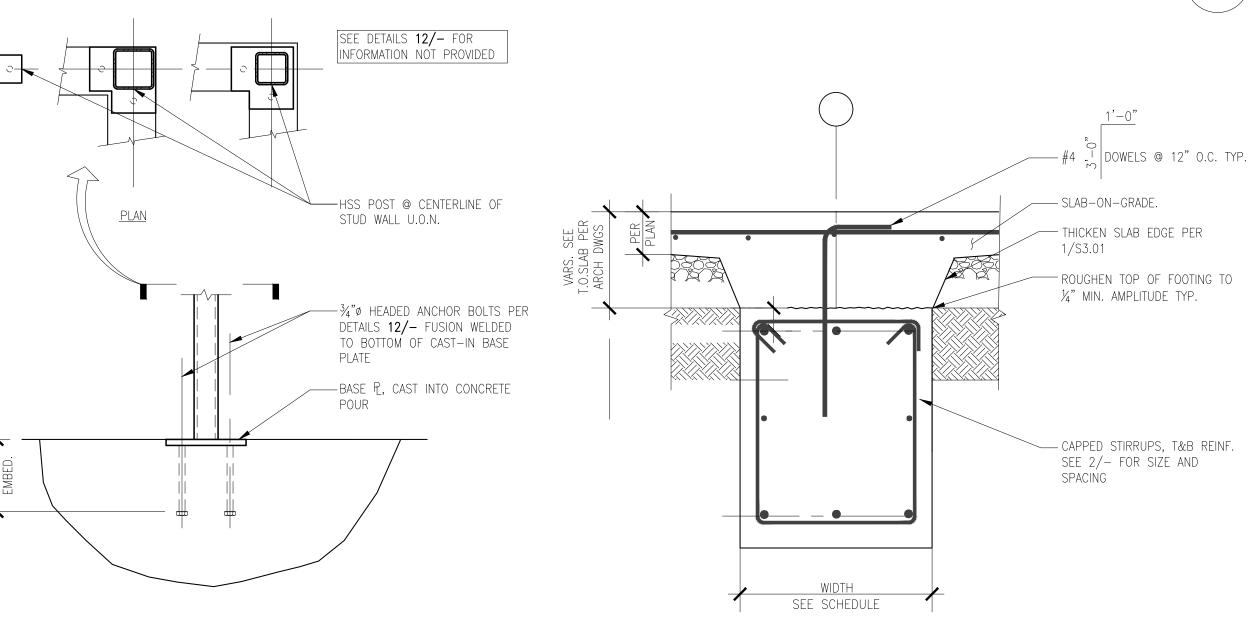
Sheet Title TYPICAL CONCRETE







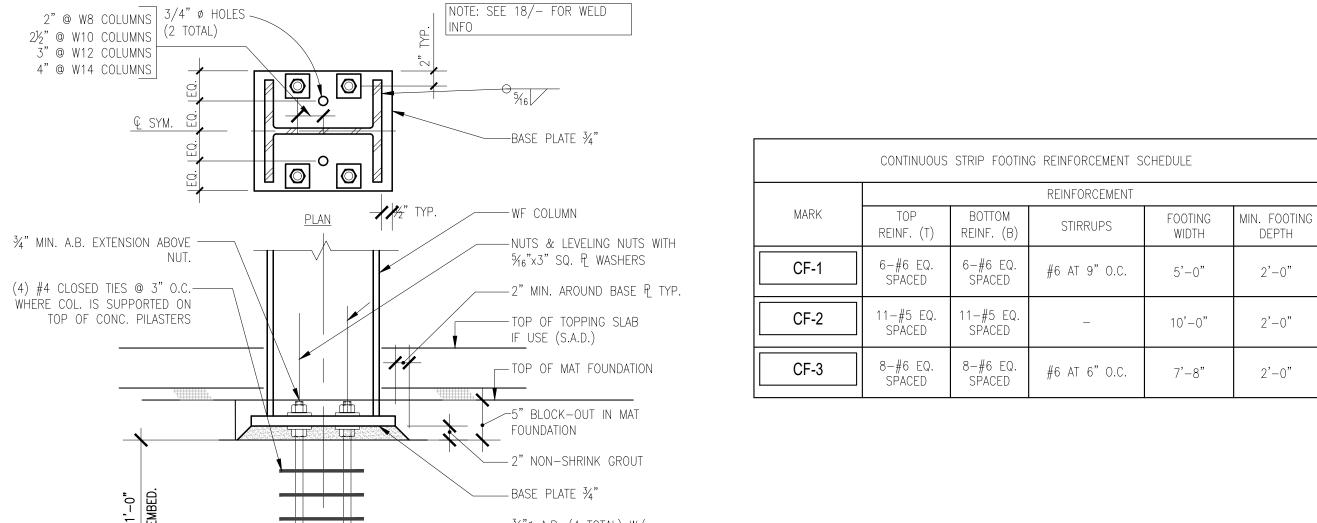




NO SCALE

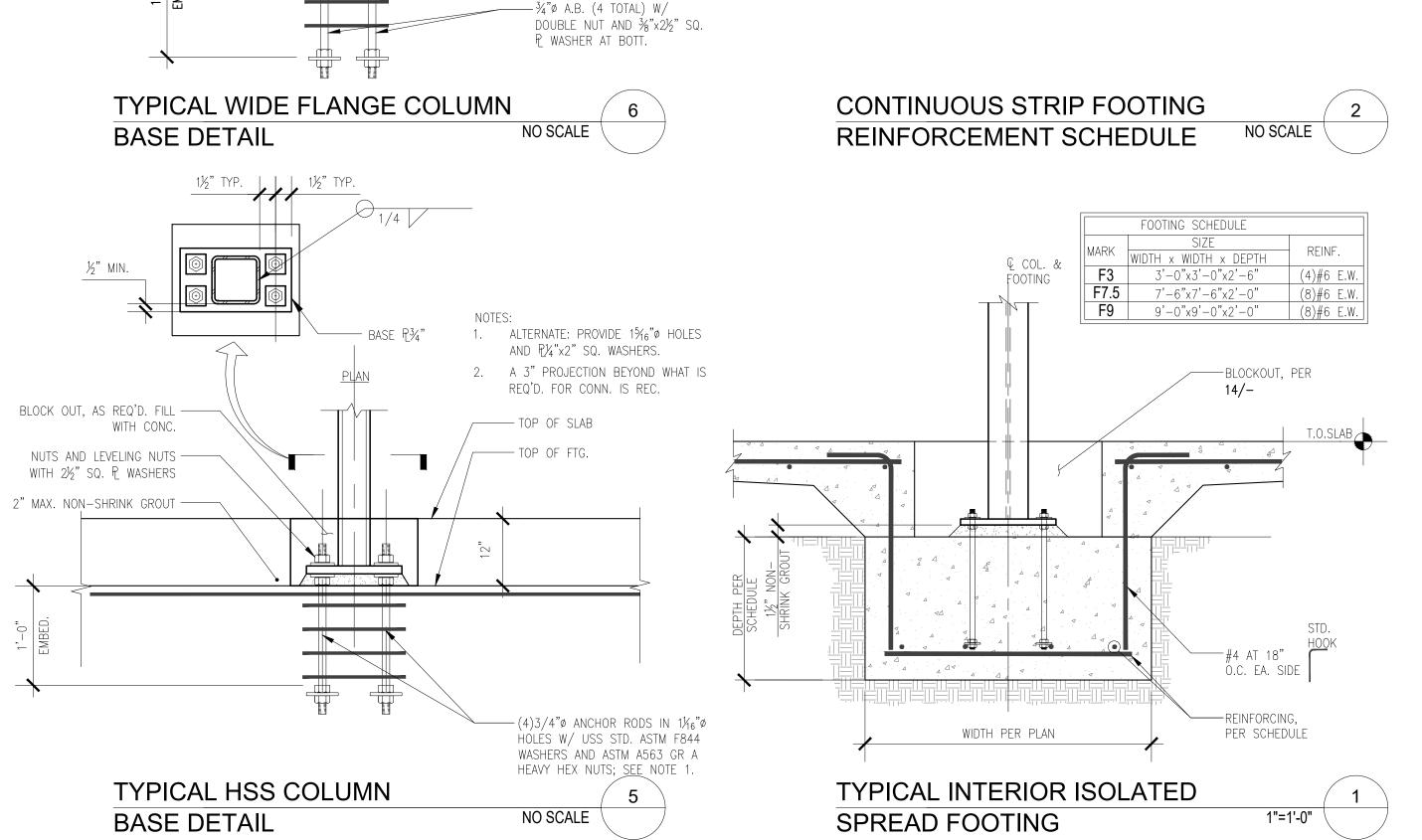
TYP. HSS POST

CAST IN BASE PLATE



TYPICAL CONTINUOUS FOOTING

AT INTERIOR



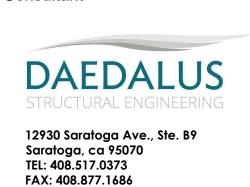
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Scale 1/8" = 1'-0" Drawn by Author

**EHDD Job Number** 

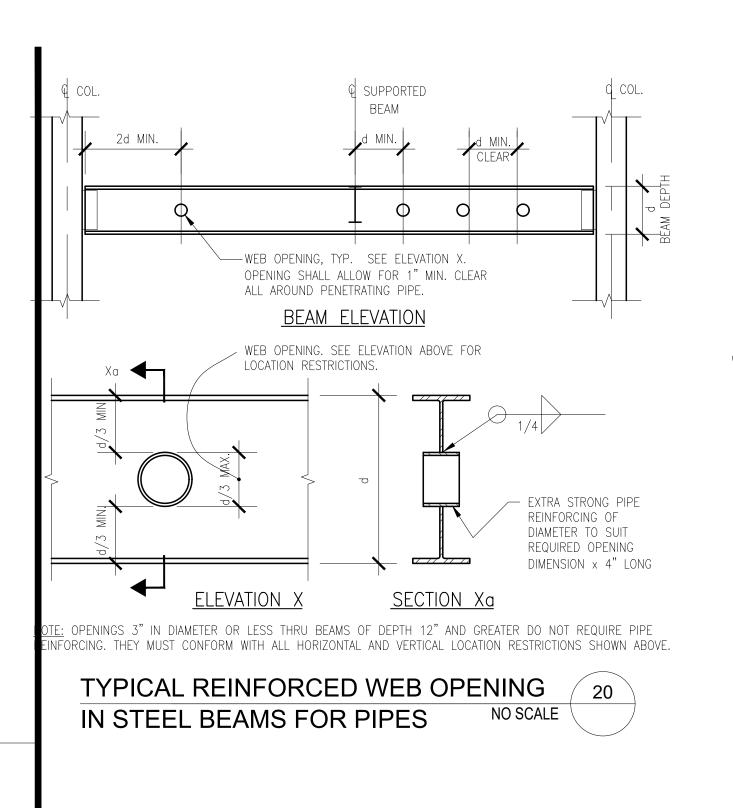
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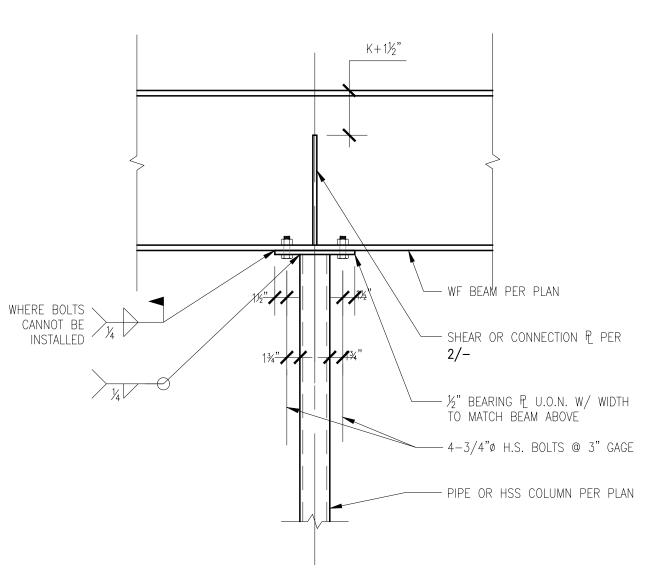
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TYPICAL CONCRETE

Sheet Number

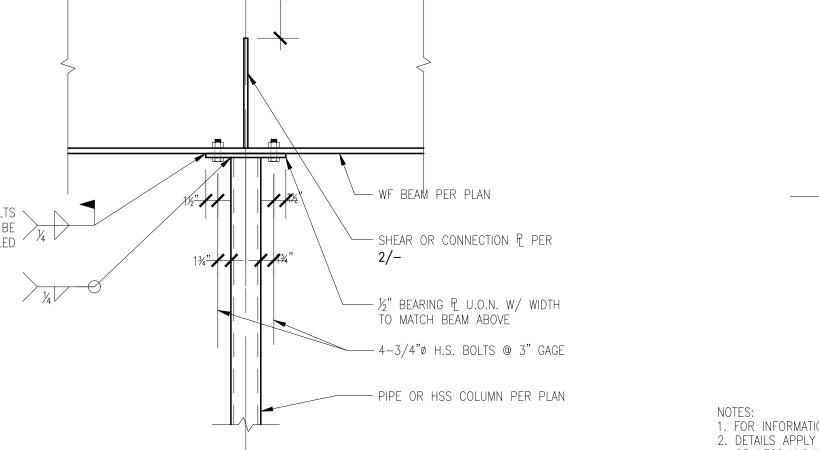
S3.12





TYPICAL BEAM CONTINUOUS

**OVER HSS COLUMN** 



— PIPE OR HSS COLUMN PER PLAN

POST-UP FROM TRANSFER GIRDER

- 4-3/4"ø H.S. BOLTS ⊚ 3" GAGE

 $-\,1/2$ " base  $\,$ P u.o.n. w/ width to

MATCH WIDTH OF BEÁM BLW

SHEAR TAB OR STIFFENER P PER

2/-, EA. SIDE OF WEB

HSS POST PER PLAN

't' EQUALS LEAST WALL

THICKNESS OF OUTRIGGER AND

NO SCALE

BEAM PER PLAN

COLUMN

PER PLAN

----HSS OUTRIGGER

/ WF BEAM PER PLAN

K+1½"

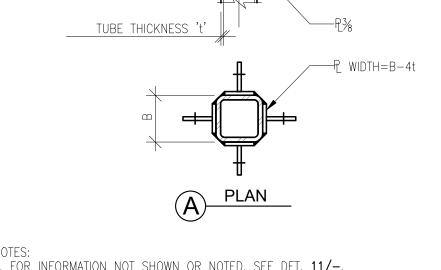
TYPICAL BASE PLATE CONNECTION

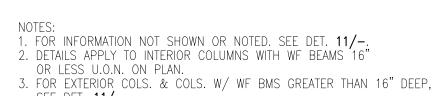
TYP.HSS BEAM TO HSS COLUMN

(MOMENT NON-SEISMIC)

P 3/8 CAP x COL. WIDTH, LENGTH=COL. WIDTH+6"

AT POST-UP COLUMNS





HSS COLUMN

CAP P 1/4

TYPICAL INTERIOR WF BEAM TO

CAP P 3/8
WHERE OCCURS Y 2 1/2"MAX. TYP. TYP.

B PLAN-DETAIL 3-WAY CONN.

NOTES:

1. FOR REQD. DIMENSIONS, BOLTS, WELDS, SHEAR TAB SIZE AND

TO HSS TUBE COLUMN

2. SLOT HSS FOR KNIFE P.

OTHER INFO. NOT SHOWN OR NOTED, SEE DET. 2/- AND DET. 3/-.

3. KNIFE 12 THICKNESS SAME AS SHEAR TAB THICKNESS PER SCHED. 2/4. CONTRACTOR'S OPTION: DET. 12/- MAY BE USED AT INT. COLUMNS FOR BEAMS 16" DEEP OR LESS.

TYPICAL CONNECTION OF WF BEAM(S) / 11

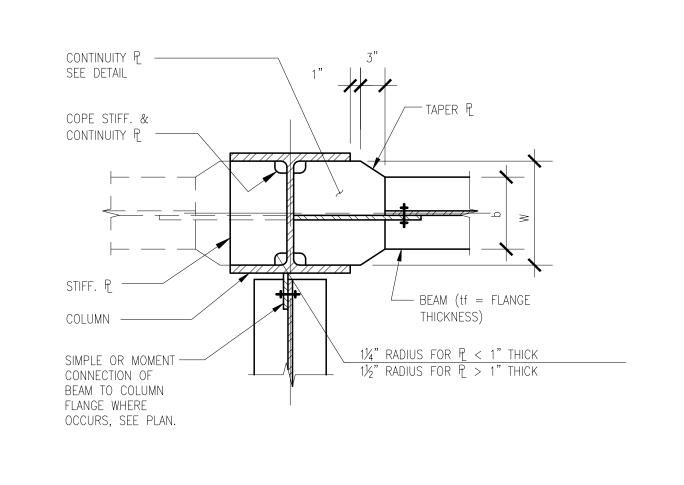
1 1/2" TYP. AT SHALLOWER

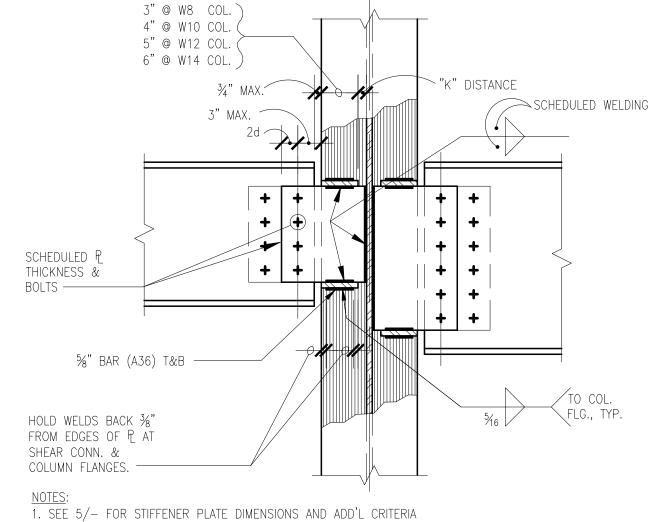
A PLAN-DETAIL 4-WAY CONN.

C PLAN-DETAIL CORNER CONN.

CAP PL AT

COL. TOP





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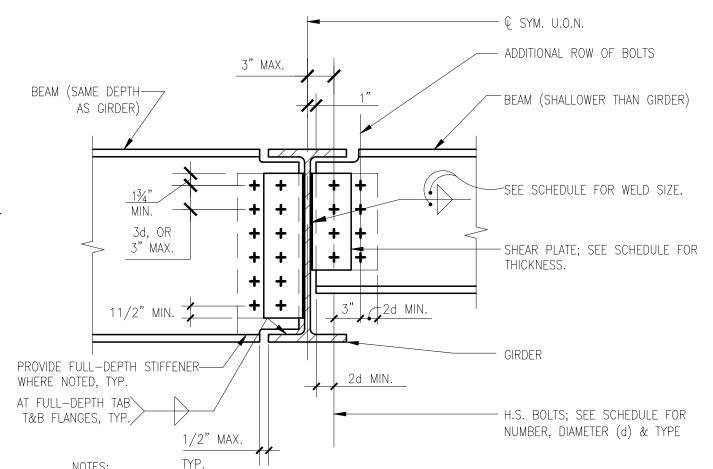
FAX: 408.877.1686

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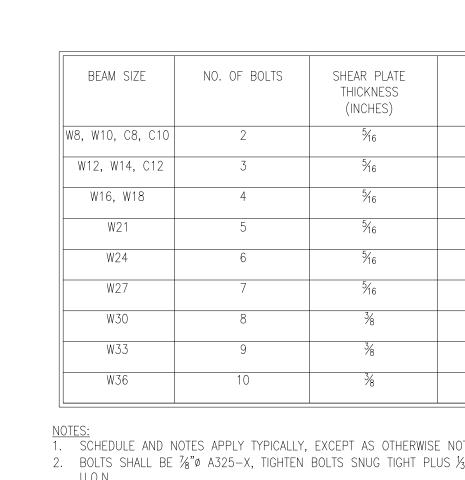
2. SEE 3/- FOR INFORMATION NOT SHOWN OR NOTED 3. SEE "BOLTED SHEAR PLATE CONNECTION SCHEDULE" WHERE "SCHEDULE" IS REFERENCED.

## INSTALL FITTED STIFF. P's TYP. SIMPLE CONN. OF BEAM TO COL. WEB 4 (FOR SQUARE PROPORTION COLUMNS)

4. WHERE COL. FLANGE WIDTH IS TOO NARROW TO INSTALL TOP & BOT. P's NOTED,



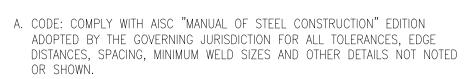
1. SEE "BOLTED SHEAR PLATE SCHEDULE" WHERE "SCHEDULE" IS REFERENCED. 2. ONE SIDED CONNECTION OF BEAM TO GIRDER IS SIMILAR.



1. SCHEDULE AND NOTES APPLY TYPICALLY, EXCEPT AS OTHERWISE NOTED IN SPECIFIC DETAILS 2. BOLTS SHALL BE 1/8" A325-X, TIGHTEN BOLTS SNUG TIGHT PLUS 1/3 TURN OF THE NUT,

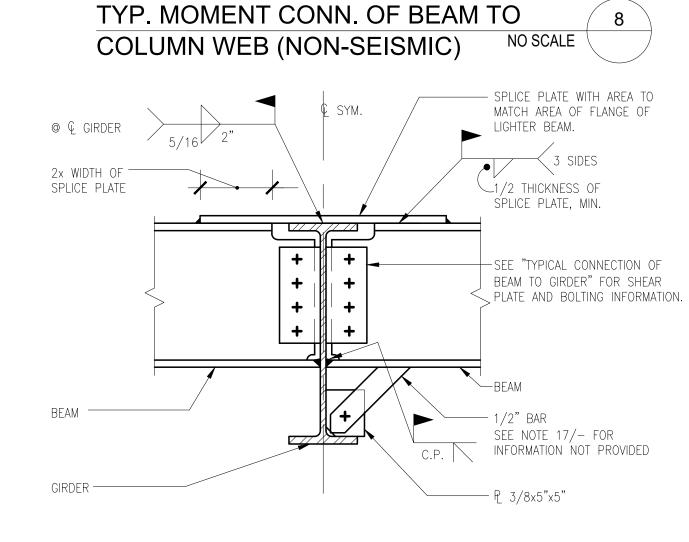
WHERE INDICATED ON THE PLANS OR DETAILS AS PART OF THE LATERAL FORCE RESISTING SYSTEM, PROVIDE TWIST—OFF TYPE TENSION CONTROLLED BOLTS. USE  ${rac{1}{2}}$ " FILLET, UNLESS GREATER WELD IS SPECIFIED, AND ½" GR. 50 SHEAR TAB. SEE SO.01 & SO.02 FOR ADD'L

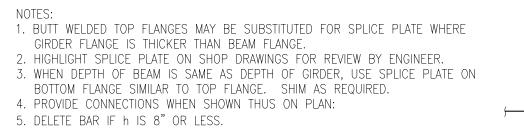
> TYP. BOLTED SHEAR PLATE CONN. SCHEDULE



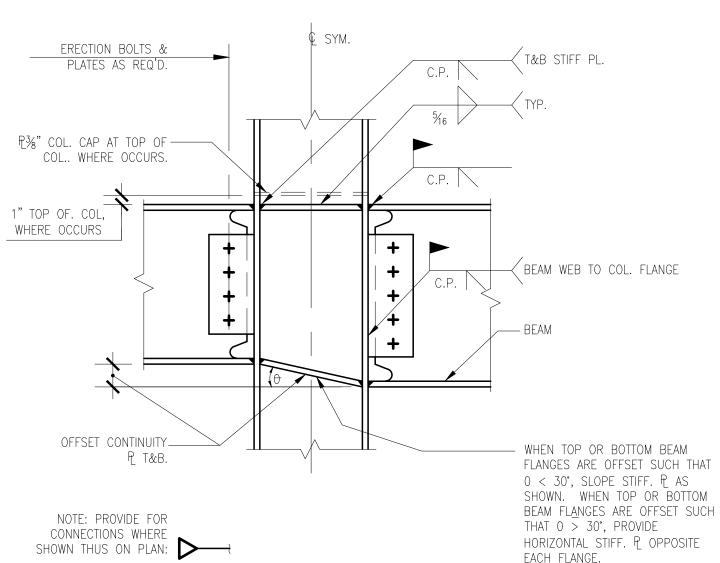
OR SHOWN. B. CONNECTIONS: USE CONNECTIONS DESIGNATED AS "TYPICAL" WHERE SPECIFIC CONNECTION DETAILS ARE NOT CALLED. WHERE GEOMETRY OR OTHER CONDITIONS VARY FROM CONDITIONS OF THE TYPICAL CONNECTIONS, HIGHLIGHT OR CLOUD SUCH CONNECTIONS IN THE SHOP DRAWINGS FOR

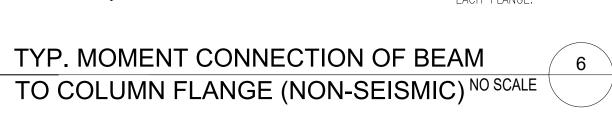
C SEE STRUCTURAL STEEL MOTES ON DESIGN CRITERIA AND MATERIAL



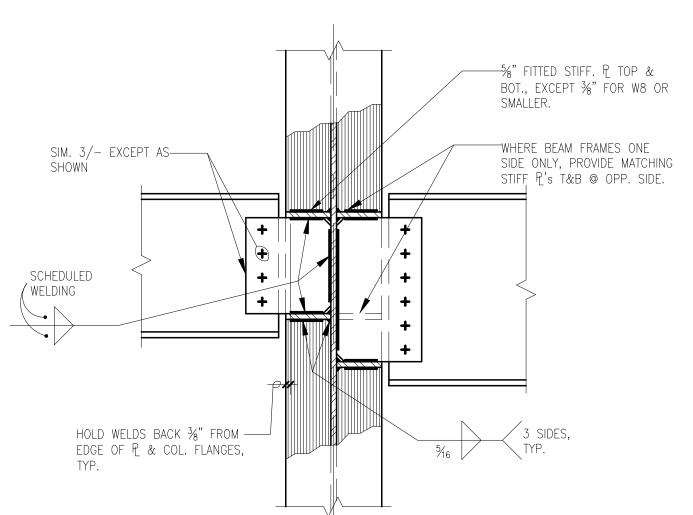


## TYP. MOMENT CONNECTION OF BEAM TO GIRDER (NON-SEISMIC)

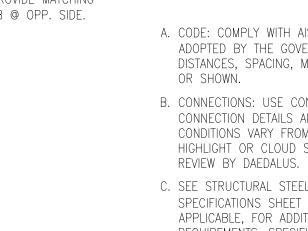




NOTE: SEE 4/- FOR ADD'L

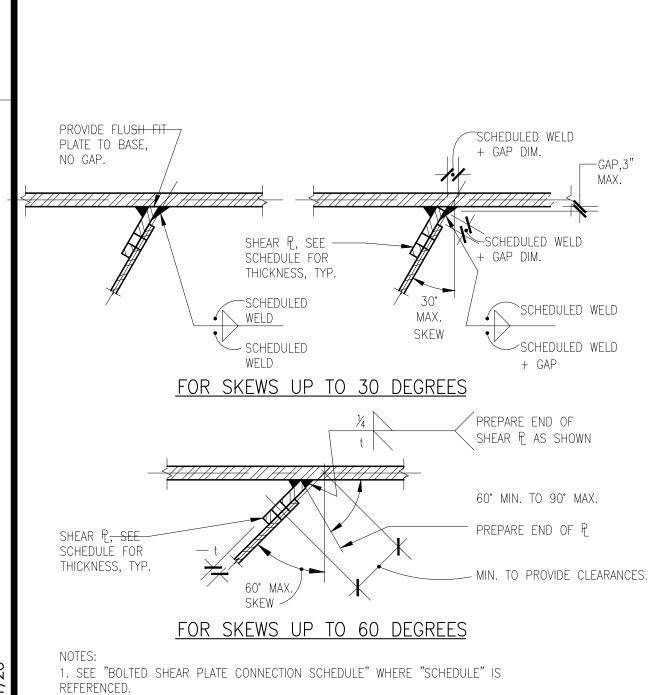


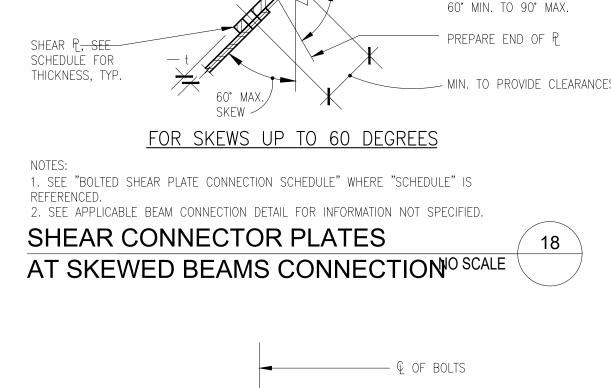
TYP. SIMPLE CONN. OF BEAM TO COL. WE	B 5	
(COL. FLG. WIDTH < COL. DEPTH) 1"=1'-0"	"	$\int$

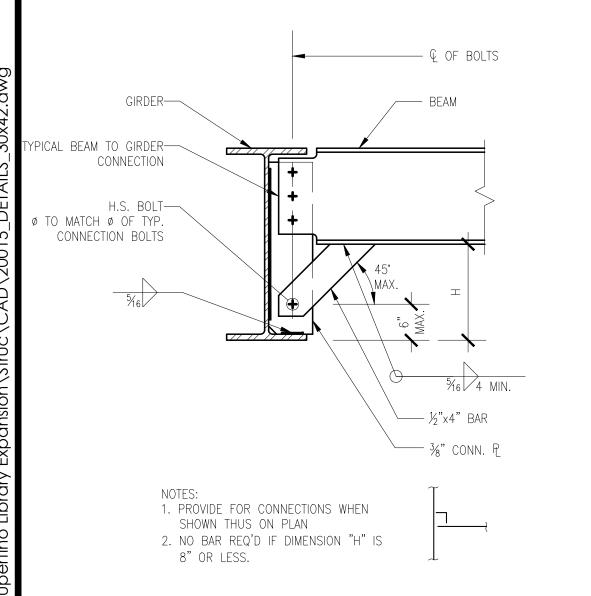


SPECIFICATIONS SHEET AND BOUND SPECIFICATION (8½"x11" FORMA APPLICABLE, FOR ADDITIONAL STRUCTURAL STEEL SPECIFICATIONS A REQUIREMENTS. SPECIFICATIONS TAKE PRECEDENCE OVER THESE DR	
,	T), IF
REQUIREMENTS. SPECIFICATIONS TAKE PRECEDENCE OVER THESE DR	ND
	:AWING

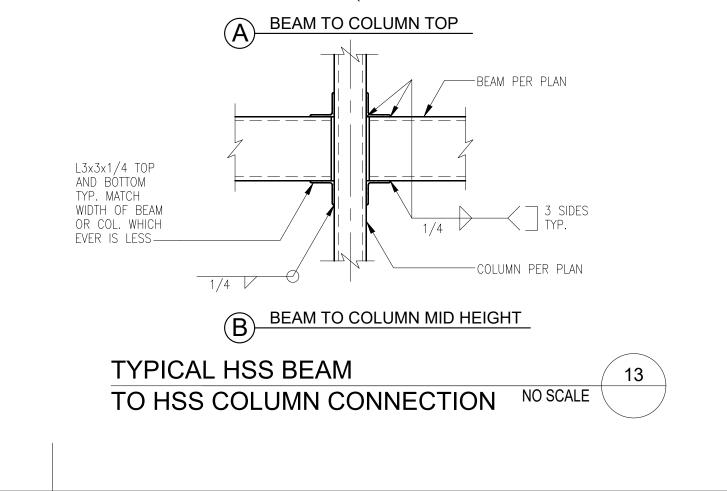
## STEEL FRAMING NOTES

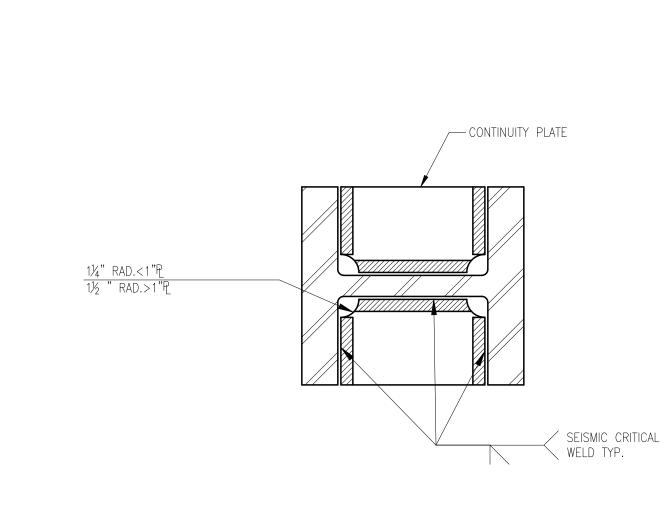




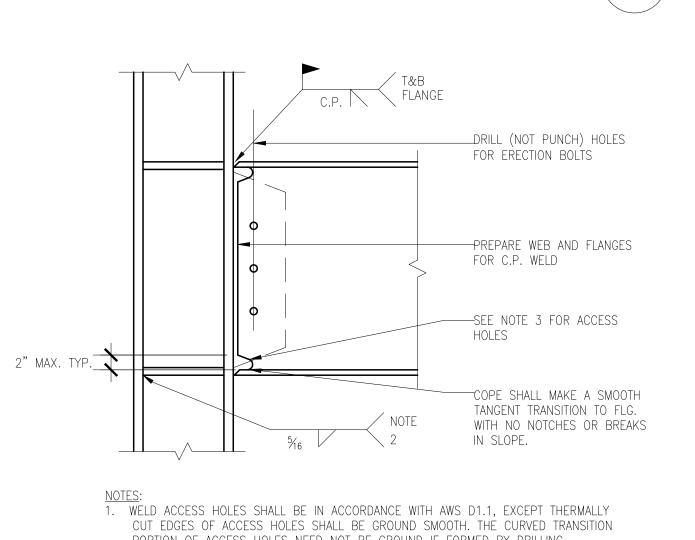


TYP. BOTTOM FLANGE BRACING DET.





TYP. COLUMN CONTINUITY PLATE



PORTION OF ACCESS HOLES NEED NOT BE GROUND IF FORMED BY DRILLING. 2. BACKING PLATES MAY REMAIN, U.O.N. PROVIDE CONTINUOUS FILLET FROM BACKING PLATE TO COLUMN AS SHOWN. 3. PROVIDE WELD ACCESS HOLES CONFORMING TO AISC SEISMIC DESIGN MANUAL 11.2a. 4. PROVIDE WHERE SHOWN THUS ON PLAN

COLUMN FLANGE (SEISMIC)

TYP. MOMENT CONNECTION OF BM. TO / 9

Scale

Drawn by

Sheet Title

**DETAILS** 

**Sheet Number** 

Author

1/8" = 1'-0"

EHDD Job Number

TYPICAL STEEL

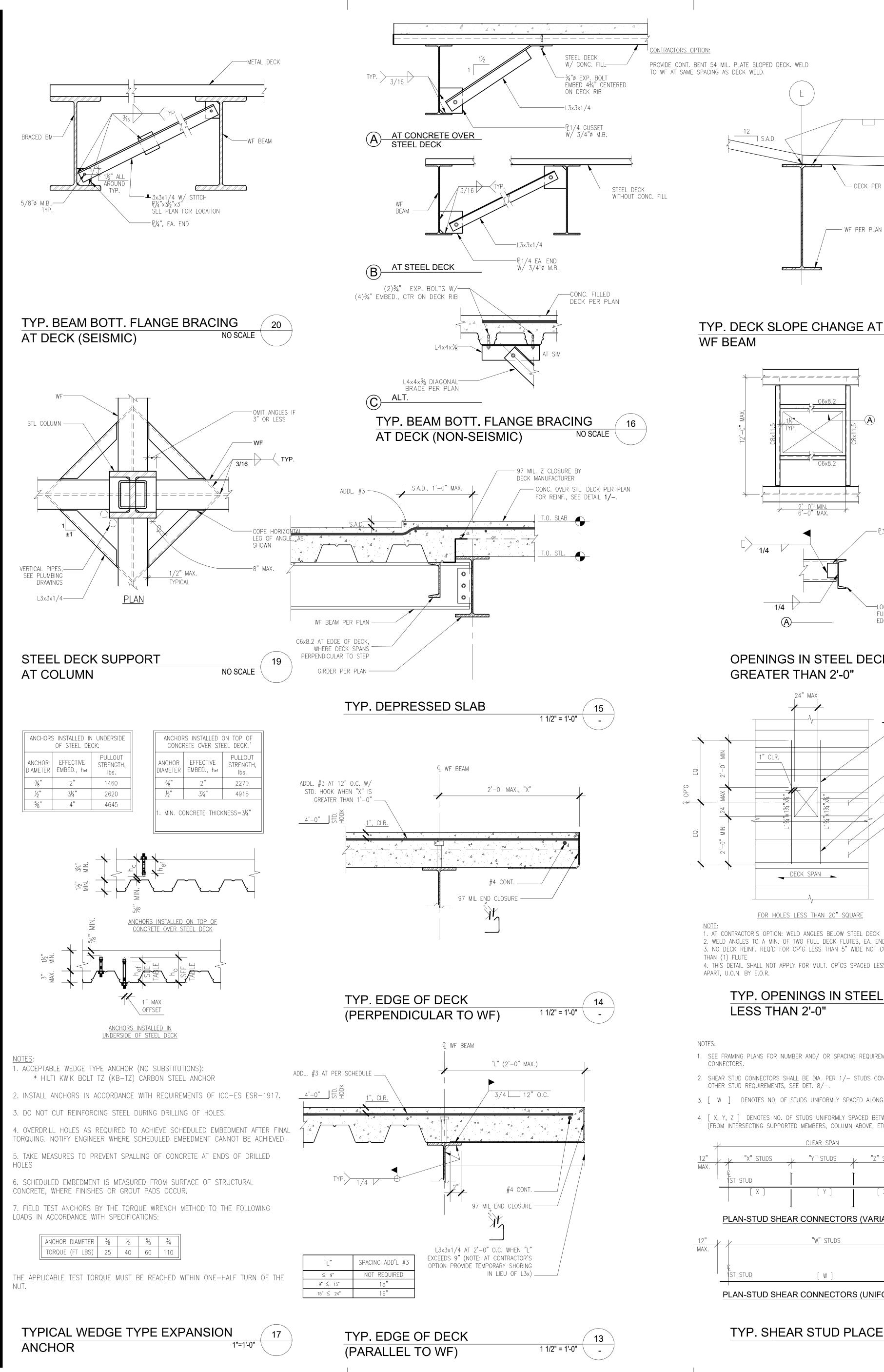
3. WHERE BEAM IS DEEPER THAN GIRDER, USE NUMBER OF BOLTS BASED ON GIRDER 4. PROVIDE ADDITIONAL ROW OF BOLTS WHERE SHOWN THUS ON PLANS. 5. FOR REQ'D DIMENSIONS, BOLTS, WELDS, SHEAR TAB SIZE AND OTHER INFO. NOT  $\downarrow$ SHOWN OR NOTED. SEE DET. 1/- AND DET. 2/-. TYPICAL CONNECTION OF BEAM 100% BRIDGING DOCUMENTS TO GIRDER NO SCALE

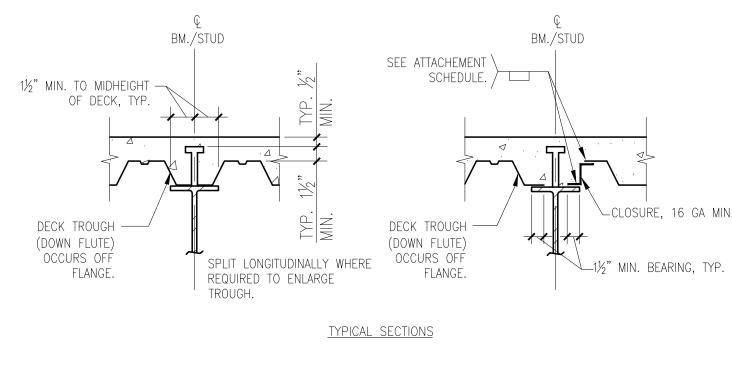
WELD SIZE (INCHES)

W21	5	5/16	3/8
W24	6	5/16	3/8
W27	7	5/16	3/8
W30	8	3/8	3/8
W33	9	3/8	1/2
W36	10	3/8	1/2

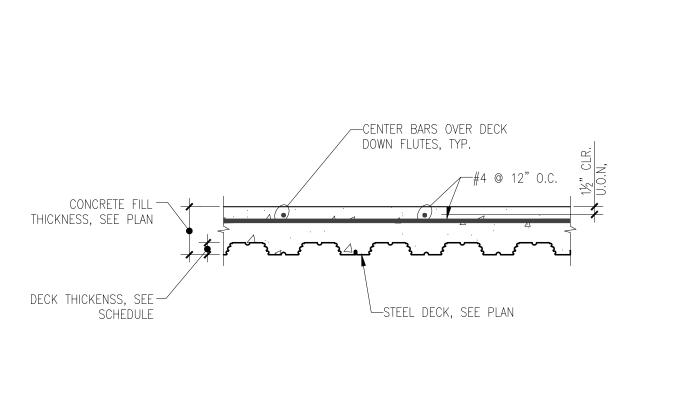
3. SHEAR PLATES SHALL BE A36 STEEL. . INSTALL BOLTS IN STANDARD HOLES, U.O.N.

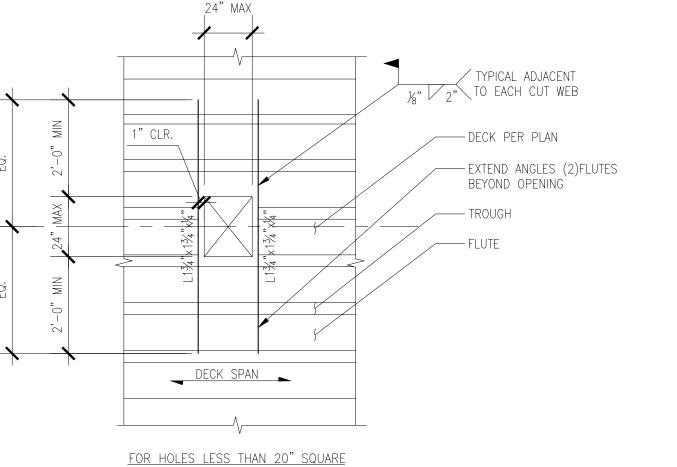
NO SCALE





## TYPICAL SHEAR STUD CONNECTOR





DECK WELD

SCHEDULE

1 1/2" = 1'-0"

FULL FLUTE NEAREST TO

NO SCALE

EDGE OF OPENING

NOTE: FOR OPENING LESS THAN 2'-0" WIDE, SEE DET.

→ PER

— DECK PER PLAN

/ WF PER PLAN

-<u>-</u>--------

OPENINGS IN STEEL DECK

**GREATER THAN 2'-0"** 

1/4

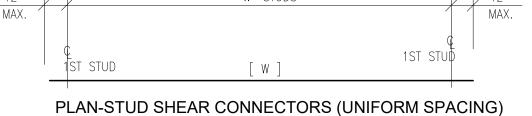
1. AT CONTRACTOR'S OPTION: WELD ANGLES BELOW STEEL DECK 2. WELD ANGLES TO A MIN. OF TWO FULL DECK FLUTES, EA. END OF EA. ANGLE 3. NO DECK REINF. REQ'D FOR OP'G LESS THAN 5" WIDE NOT CUTTING MORE 4. THIS DETAIL SHALL NOT APPLY FOR MULT. OP'GS SPACED LESS THAN 6'-0" APART, U.O.N. BY E.O.R.

### TYP. OPENINGS IN STEEL DECK NO SCALE LESS THAN 2'-0"

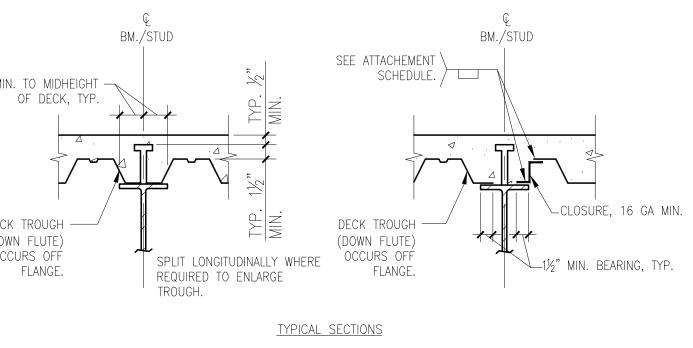
- NOTES: 1. SEE FRAMING PLANS FOR NUMBER AND/ OR SPACING REQUIREMENTS OF STUD SHEAR
- 2. SHEAR STUD CONNECTORS SHALL BE DIA. PER 1/- STUDS CONFORMING TO ASTM A1044, FOR OTHER STUD REQUIREMENTS, SEE DET. 8/-.
- 3. [ W ] DENOTES NO. OF STUDS UNIFORMLY SPACED ALONG FULL LENGTH OF BEAM.
- 4. [ X, Y, Z ] DENOTES NO. OF STUDS UNIFORMLY SPACED BETWEEN POINT LOADS (FROM INTERSECTING SUPPORTED MEMBERS, COLUMN ABOVE, ETC.)

<del>/</del>			CLEAR SPAN			<del></del>
12"   MAX.   C   ST	"X" STUDS STUD	<del> </del>	"Y" STUDS	<del> </del>	"Z" STUDS	12" MAX.
	[ X ]		[ Y ]		[ Z ]	
PLA	N-STUD SH	IEAR (	CONNECTO	ORS (\	/ARIABLE SF	PACING)

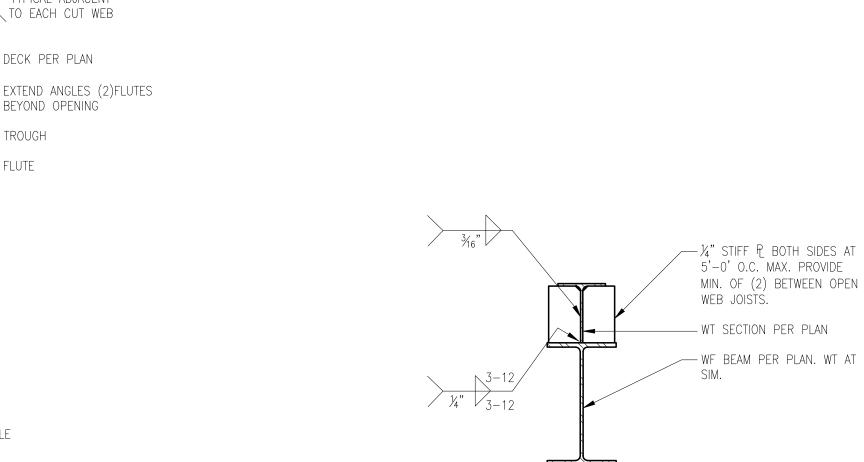
## "W" STUDS

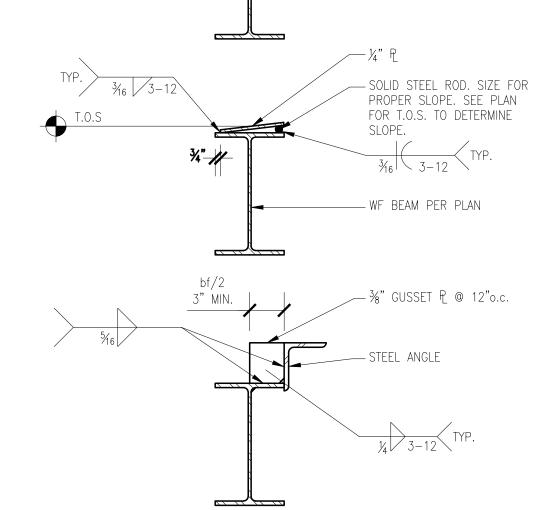


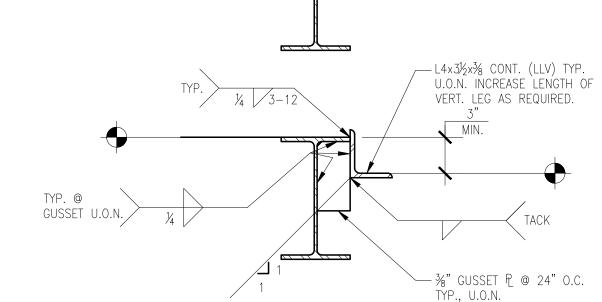
TYP. SHEAR STUD PLACEMENT



## TYPICAL REBAR PLACEMENT



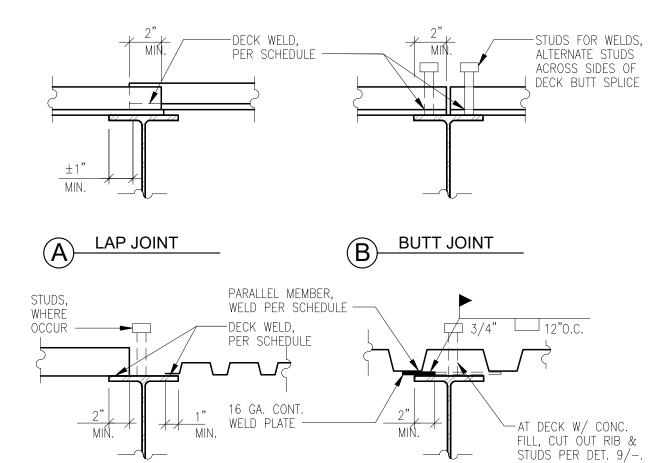




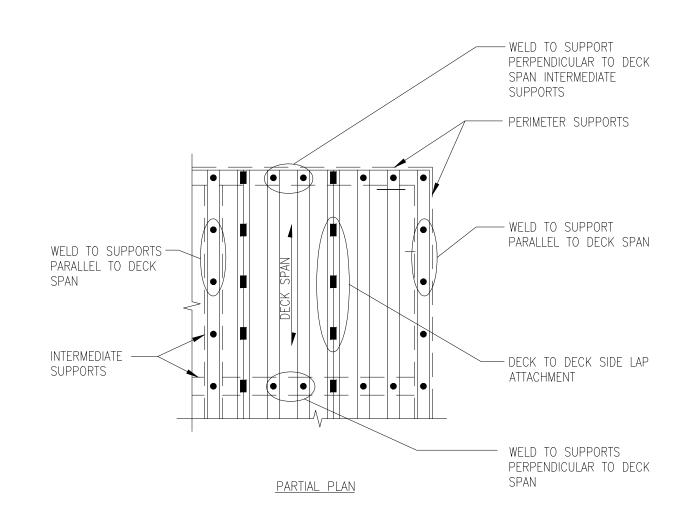
NO SCALE

TYPICAL DECK TO WF **ATTACHMENT** 

1. SEE 3/- & STEEL DECK NOTES AND DECK SCHEDULE FOR COMPLETE INFORMATION.



TYPICAL DECK ATTACHMENT



## TYPICAL STEEL DECK ATTACHMENT LOCATIONS

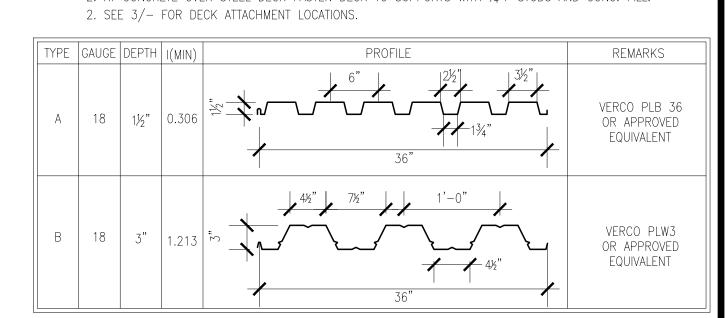
ATTACHMENT PATTERN TYPE SUPPORT PERPENDICULAR TO DECK RIBS SUPPORT PARALLEL TO DECK RIBS DECK TO DECK SIDE LAPS FASTEN AT ALL DOWN FLUTES VERCO PUNCHLOK @ 12 FASTEN AT ALL DOWN FLUTES FASTEN @ 12" O.C. VERCO PUNCHLOK @ 12"

FASTEN AT ALL DOWN FLUTES

1. FASTEN DECK TO SUPPORTS WITH EITHER ½" PUDDLE WELD OR PNEUTEK FASTENERS AS FOLLOWS: A. K64 FASTENERS AT STEEL SUPPORTS WITH 0.187-0.312 INCHES IN THICKNESS B. K66 FASTENER AT STEEL SUPPORTS WITH 0.281 INCHES AND THICKER. 2. AT CONCRETE OVER STEEL DECK FASTEN DECK TO SUPPORTS WITH 34" STUDS AND CONC. FILL.

FASTEN @ 12" O.C.

VERCO PUNCHLOK @ 12"



## STEEL DECK MINIMUM PROPERTIES AND ATTACHMENT SCHEDULE

STEEL DECK & STUD NOTES:

- 1. AT ALL ROOF EAVES AND WHERE POSSIBLE, DECK LAYOUT SHALL PROVIDE SHEETS OF SUFFICIENT LENGTH TO CONTINUOUSLY SPAN AT LEAST THREE SPANS. ENDS SHALL TERMINATE OVER A SUPPORT PERPENDICULAR TO THE DECK SPAN, EXCEPT AT OPENINGS OR ROOF EAVES WHERE DECKS MAY BE CANTILEVERED AS SHOWN.
- 2. DECK SHALL HAVE A MINIMUM BEARING OF 2" AT ALL SUPPORTING MEMBERS PERPENDICULAR TO DECK SPAN AND 1½" AT ALL MEMBERS PARALLEL TO DECK SPAN.
- 3. WHERE TWO ADJACENT DECK SHEETS ARE SUPPORTED BY ONE FRAMING MEMBER, EACH SHEET SHALL INDIVIDUALLY SATISFY THE REQUIREMENTS OF NOTE 2 AND OF THE ATTACHMENT SCHEDULE.
- 4. DUCTS, LIGHTS AND OTHER ITEMS, EXCEPT ACOUSTIC TILE CEILINGS, SHALL NOT BE SUPPORTED FROM STEEL DECK UNLESS APPROVED BY ARCHITECT. ANCHORAGE OF APPROVED ITEMS MUST CONFORM WITH DECK MANUFACTURER'S RECOMMENDATIONS.
- 5. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 6. ALL WELDED STUDS SHALL BE 3/4" DIAMETER. STUD LENGTH (AS WELDED) SHALL BE 4½" FOR DECK TYPE "A".
- 7. SHEAR STUDS WELDED THROUGH THE DECK, WITH A MINIMUM CLEARANCE OF 1" FROM THE EDGE OF THE DECK TO THE STUD CENTER LINE, MAY BE SUBSTITUTED ONE FOR ONE FOR DECK WELDS AT AREAS WITH CONCRETE FILL. ALIGN AND SECURE DECK IN POSITION AS REQUIRED BEFORE INSTALLING SHEAR STUDS. 8. ALL BEAMS AND GIRDERS WHICH ARE COVERED BY STEEL DECK AND CONCRETE FILL SHALL HAVE SHEAR
- STUDS. 9. SEE PLANS FOR THE SPECIFIC STUD PATTERN REQUIRED AT EACH MEMBER. WHERE STUD PATTERN IS NOT CALLED FOR ON THE PLANS, PLACE STUDS PER PATTERN S1 ON BEAMS AND GIRDERS. REF. DETAIL **6**. 10. SHEAR STUD PLACEMENT AND SPACING REQUIREMENTS ARE SHOWN IN DETAIL 5.

TYPICAL STEEL DECK & STUD NOTES

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Revisions and Description Date

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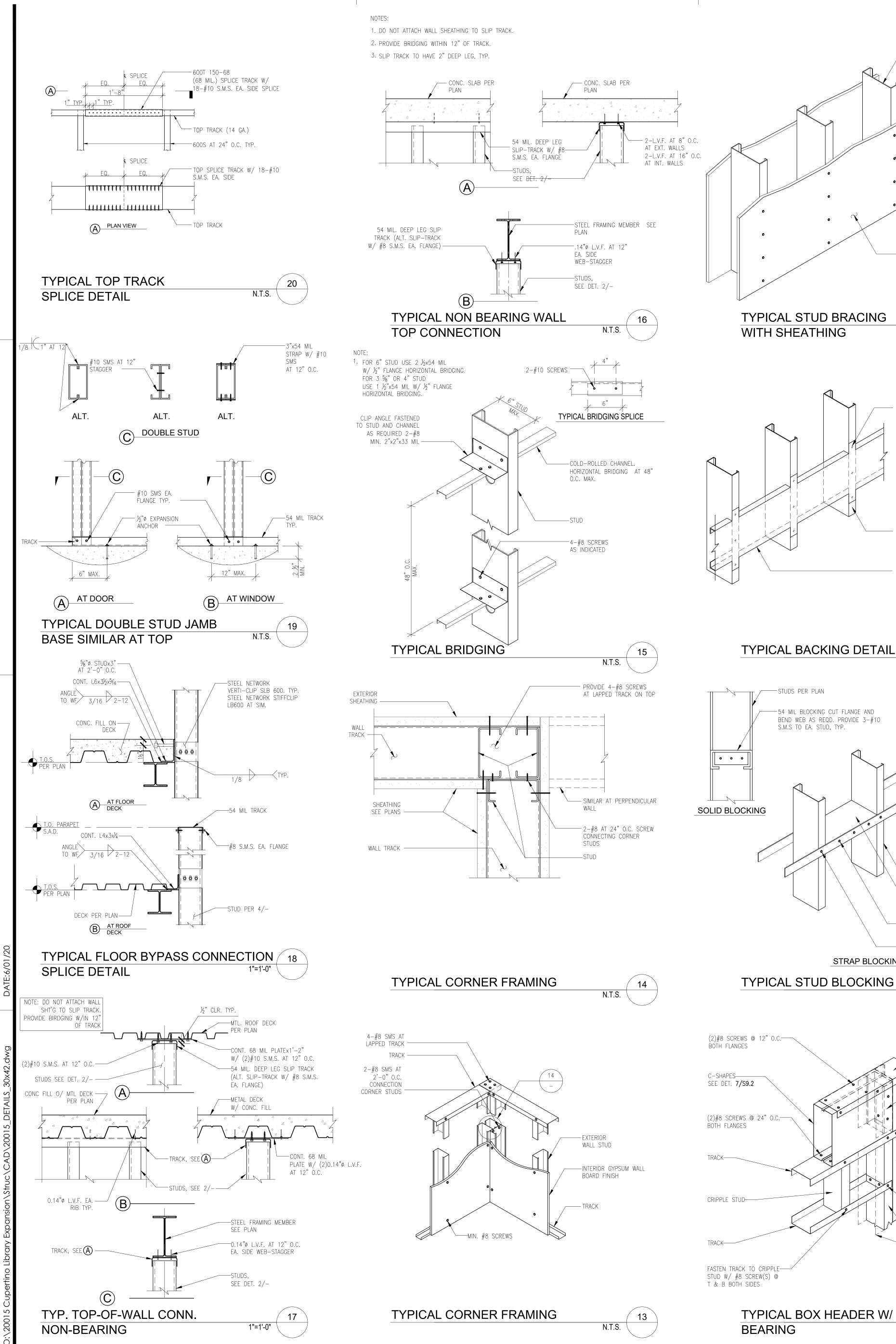
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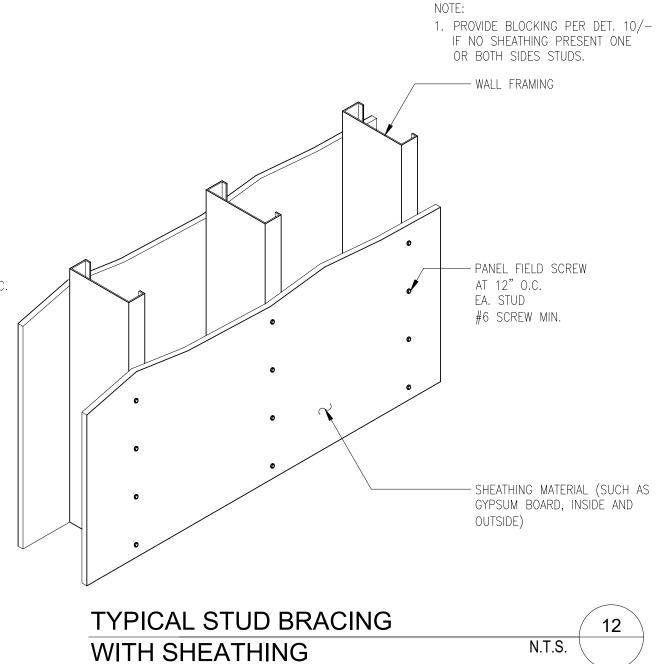
Author EHDD Job Number

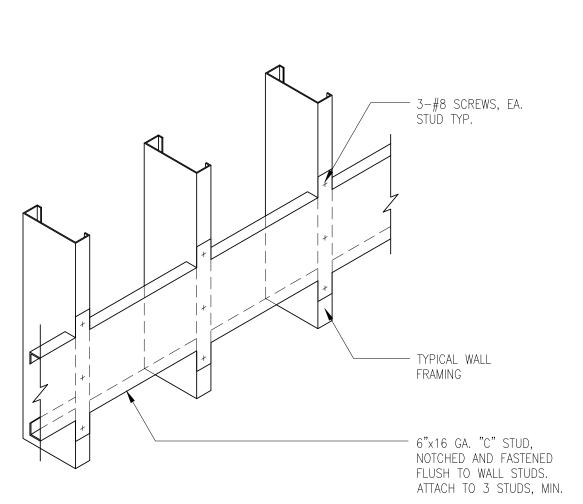
Sheet Title TYPICAL STEEL **DETAILS** 

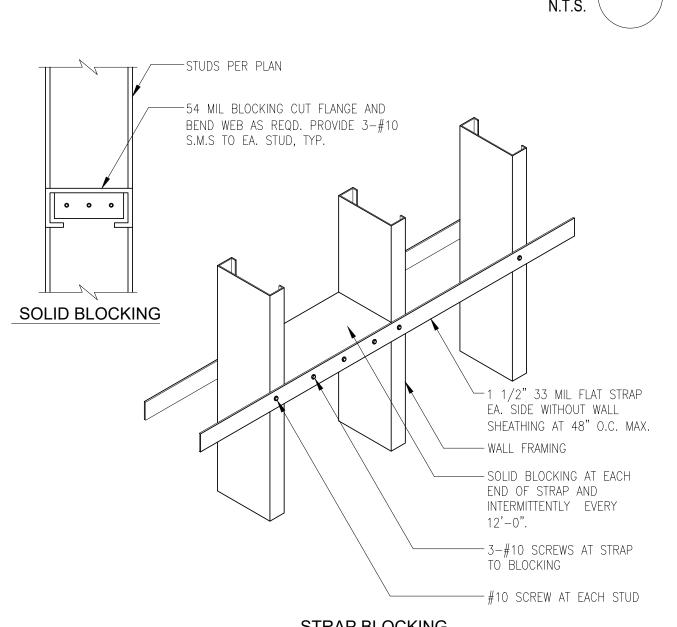
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**CUPERTINO** 

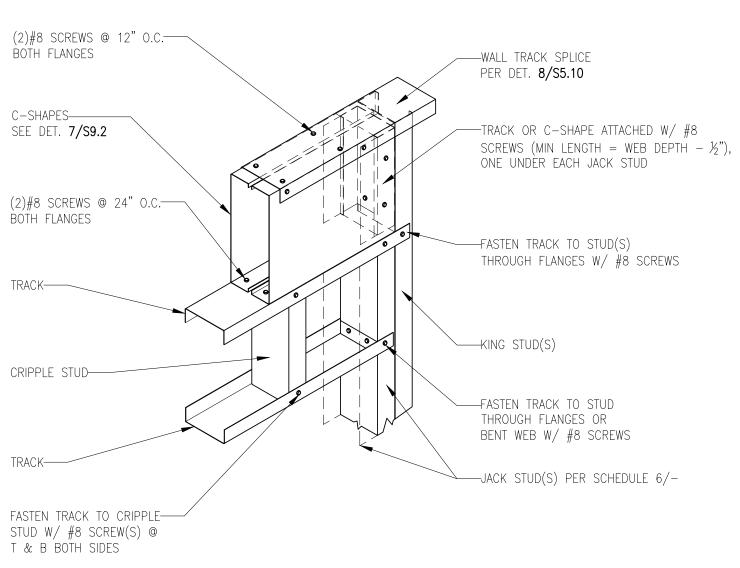




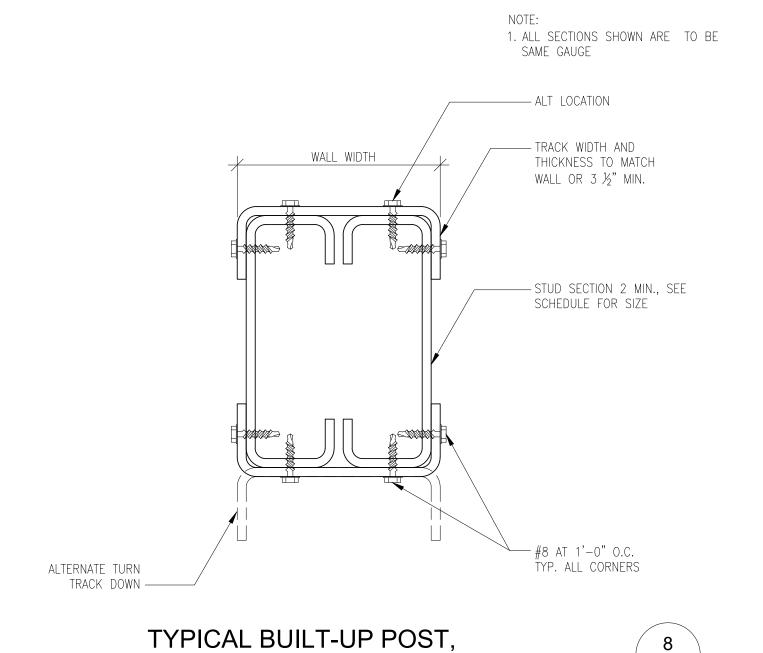


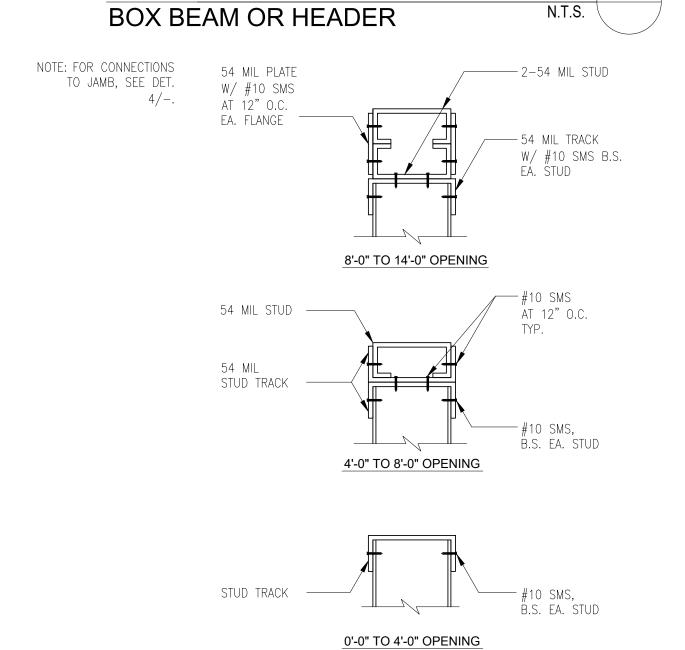












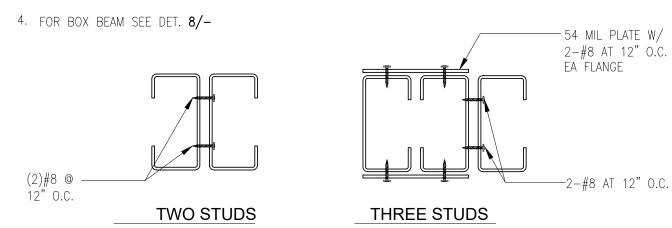
HEADER DR BEAM SPAN	NO. OF JACK STUDS OR POST	NO. OF KING STUDS	HEADER TO KING STUD (NO. OF SCREWS REQD.)	HEADER SIZE
4'-0"	1	2	6-#8 SCREWS	400S162-43 BOX
6'-0"	1	2	6-#8 SCREWS	600S162-54 BOX
8'-0"	2	2	8-#8 SCREWS	800S162-54 BOX
12'-0"	3	3	10-#8 SCREWS	1000S162-68 BOX
16'-0"	3	4	12-#8 SCREWS	1200S162-97 BOX
18'-0"	3	4	12-#8 SCREWS	1200S162-97 BOX

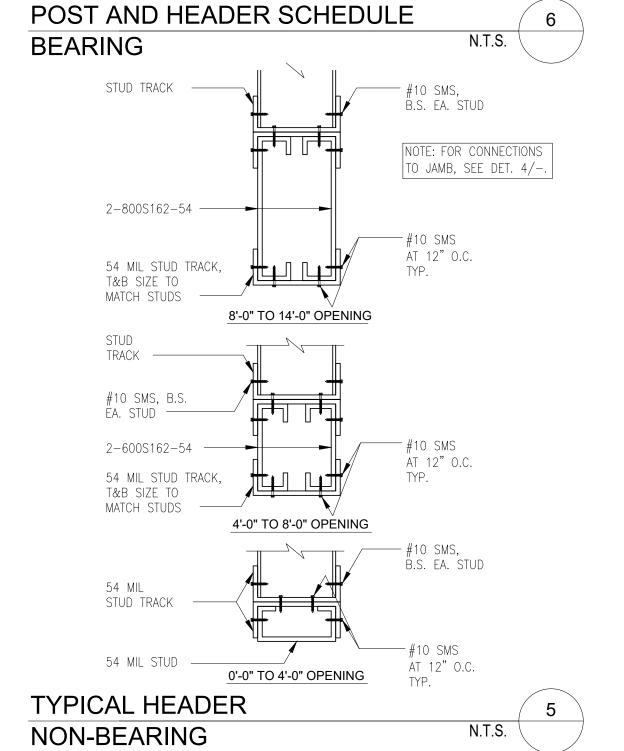
NOTES: 1. SCREWS CAN BE REPLACED BY AN UP-LIFT CONNECTOR, WHICH HAS A CAPACITY

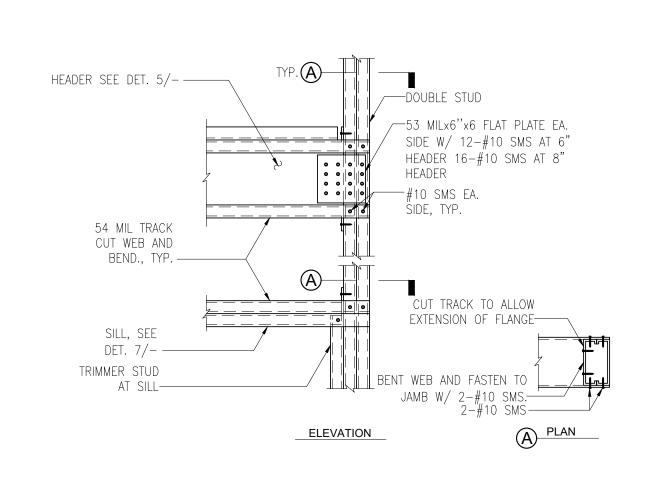
OF THE NUMBER OF SCREWS MUTIPLIED BY 164 LBS. 2. ALL JACK STUDS TO BE SAME SIZE AND GRADE AS TYPICAL WALL STUD

TYPICAL CFS SILL

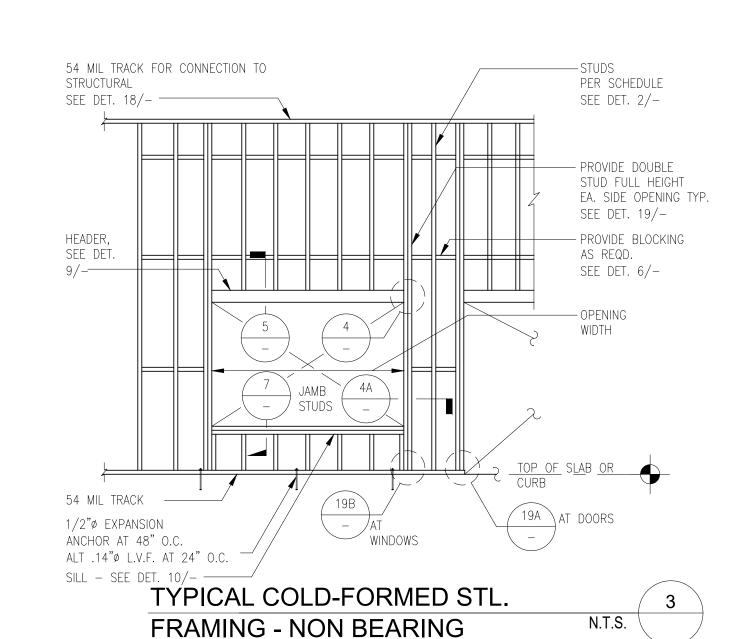
3. FASTEN STUDS TOGETHER.











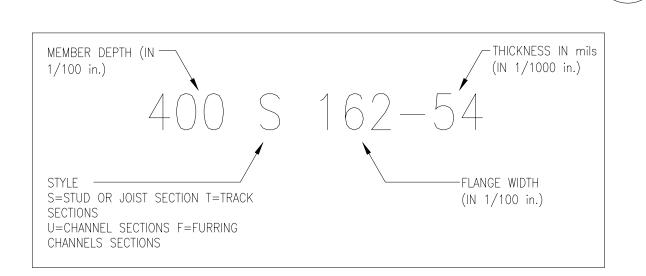
JOISTS HEADERS	
JOIST A 1000S162-54 HDR A 1000S-54 BOX	1
JOIST B 800S162-54 HDR B 800S-54 BOX <sup>1</sup>	
JOIST C 1200S162-54 HDR C 1200S-68 BOX	

1. SEE DET. 6&8/-

EXTERIOR	WALL STUD: NON-BEA	AKING
WALL HEIGHT	STUD SECTION	SPACING
<b>≤</b> 16'	600S162-43	16" O.C.
16'-20'	800S162-43	16" O.C.
20'-24'	800S200-54	16" O.C.

INTERIOR WALL STUD: NON-BEARING PARTITION				
WALL HEIGHT	STUD SECTION	SPACING		
≤ 14'	350S162-33	16" O.C.		
≤ 18'	400S162-43	16" O.C.		
≤ 24'	600S162-43	16" O.C.		

**COLD-FORMED STEEL** FRAMING SCHEDULES



MINIMUM DELIVERABLE THICKNESS (MILS)	GAUGE	DESIGN THICKNESS (INCHES)
18	25	.0188
27	22	.0283
33	20	.0346
43	18	.0451
54	16	.0566
68	14	.0713
97	12	.1017

TYPICAL COLD-FORMED STL. N.T.S. STUD DESIGNATIONS

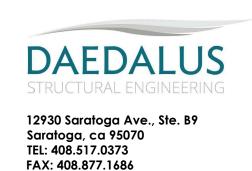
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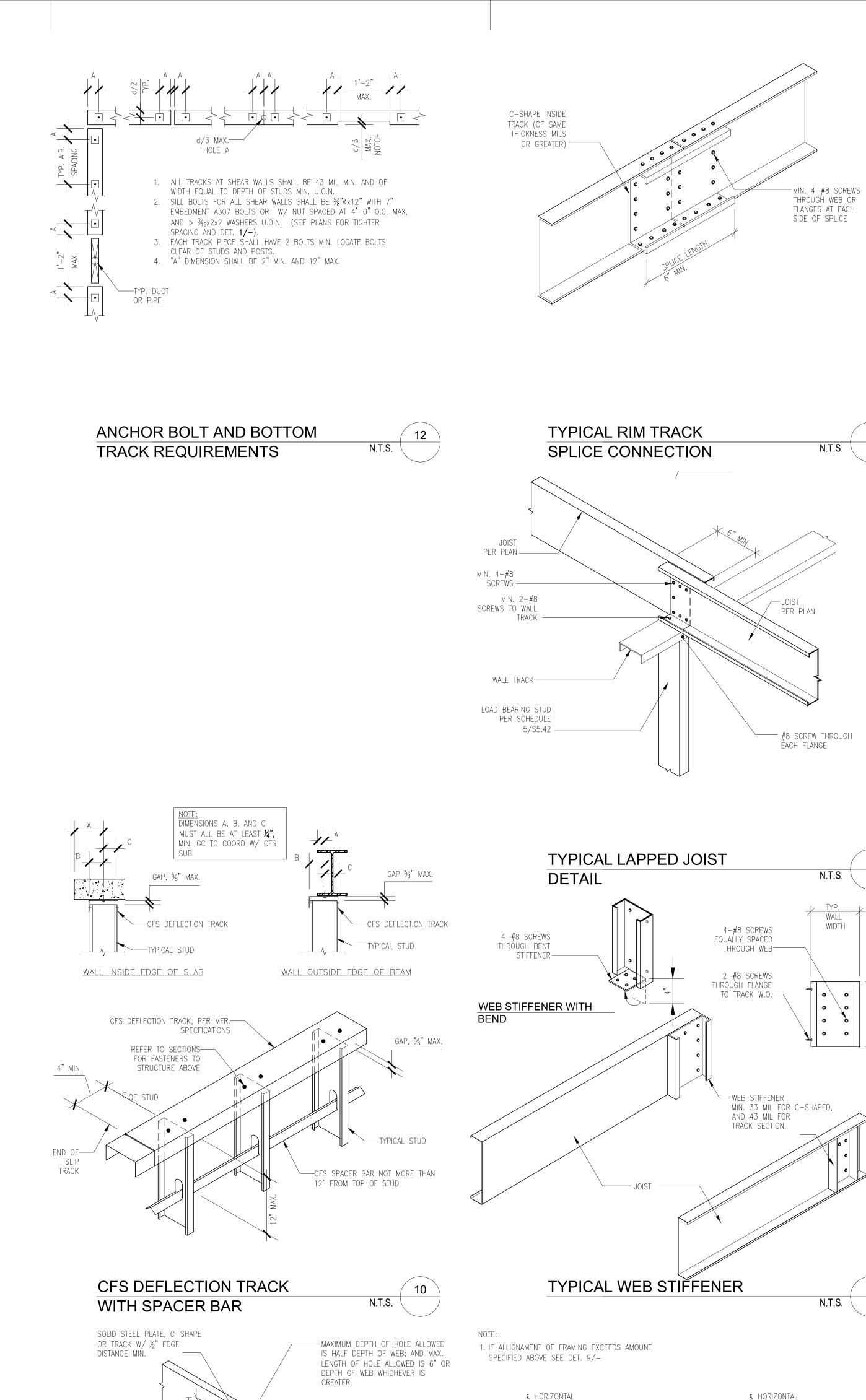
100% BRIDGING DOCUMENTS

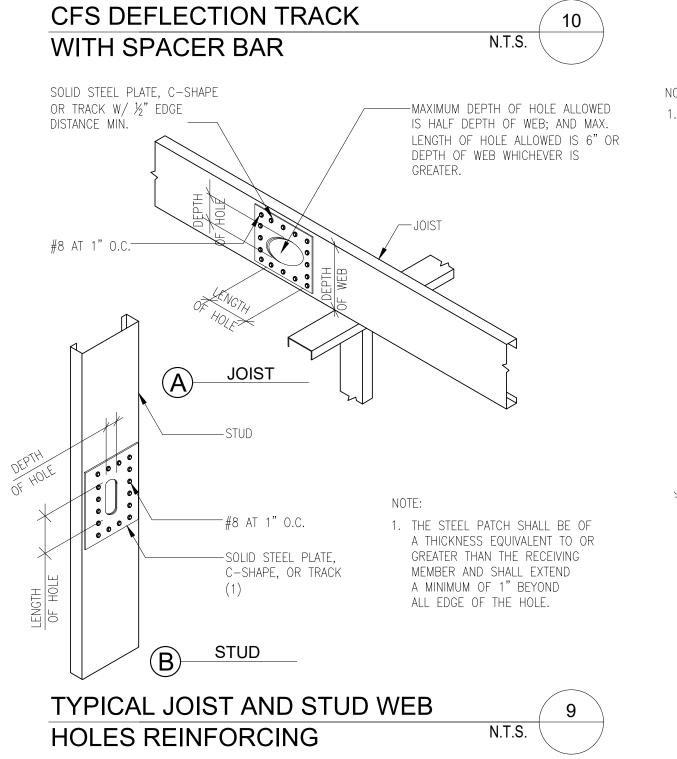
Revisions and Description

Scale 1/8" = 1'-0" Drawn by Author

**EHDD Job Number** Sheet Title

**COLD-FORMED STEEL DETAILS** 





54 MIL PLATE W/ ~

 $(4) \frac{1}{4}$ "ø x  $1\frac{3}{4}$ " TITEN HEX-HEAD

SCREWS TO CONC.

TYPICAL PARTITION BRACE

METAL STUD SOFFIT FRAMING

TYP. EXTERNAL BEARING WALL

ALT. BRACE WHEN POSSIBLE

400S162-43 BRACE W/

SEE DET. 14/--

W OR C SECTION

SEE PLAN ——

54 MIL CLIP

S.Ḿ.S., ŤYP.─

ANGLE W/ 3-#10

1/8

2-#10 SMS TYP. AT 8'-0" O.C. EA." WAY FOR TOP CONNECTION

~54 MIL CLIP ANGLE W/

(4) ¼"ø x 1¾" TITEN HEX-HEAD SCREWS TO

-400S162-43 STUD BRACE

AT 4'-0" MAX.

EA. FLANGE

-54 MIL TOP TRACK

CONT. W/ #8 S.M.S.

-STUDS SEE DET. 2/-

14

— SURE-BOARD PER

—— 54 MIL. FLAT BLKG.

54 MIL. DEEP LEG

AT 24" O.C.

\_\_\_\_ 400S BLKG. BTWN. HANGER

SEE DET. 6/-

— 400S CEILING JOIST

13

AT 24" O.C. MAX.

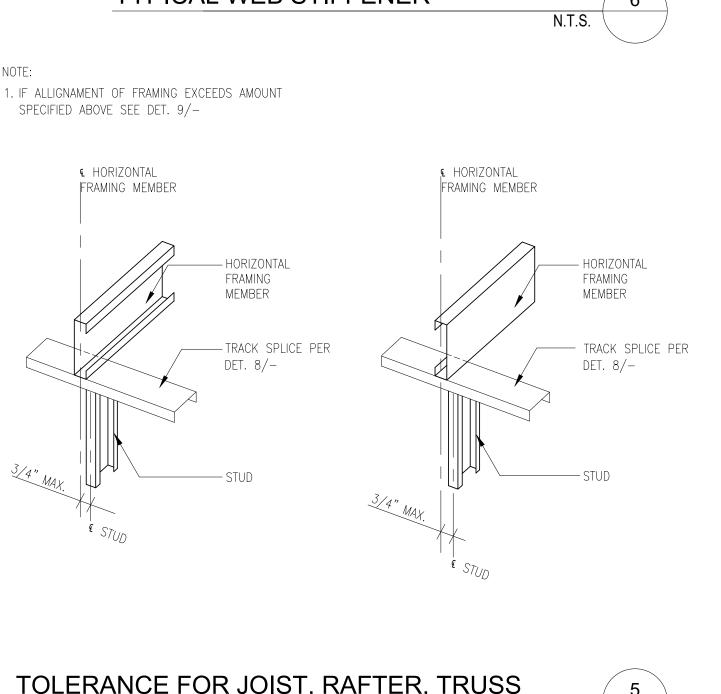
SPAN 12'-0" 3-#10 S.M.S AT

W/ 2 S.M.S. TO EA.

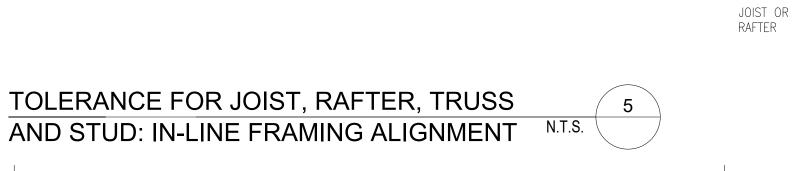
SLIP-TRACK W/ #8 S.M.S. EA. FLANGE

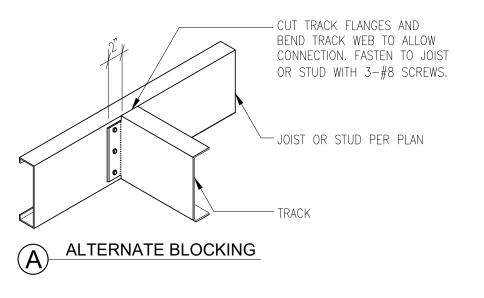
----- 400S162-HANGER-43

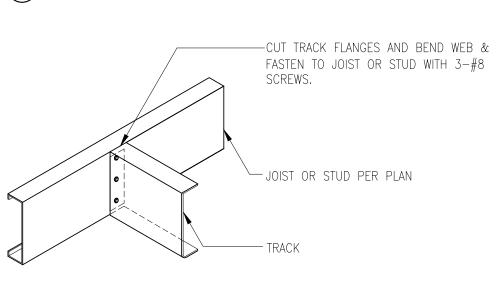
PLAN



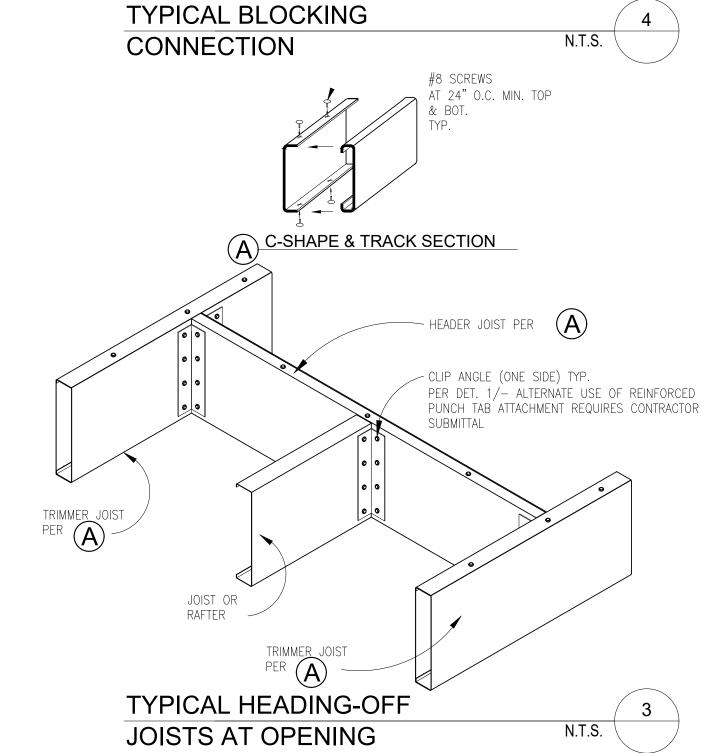
WALL
WIDTH

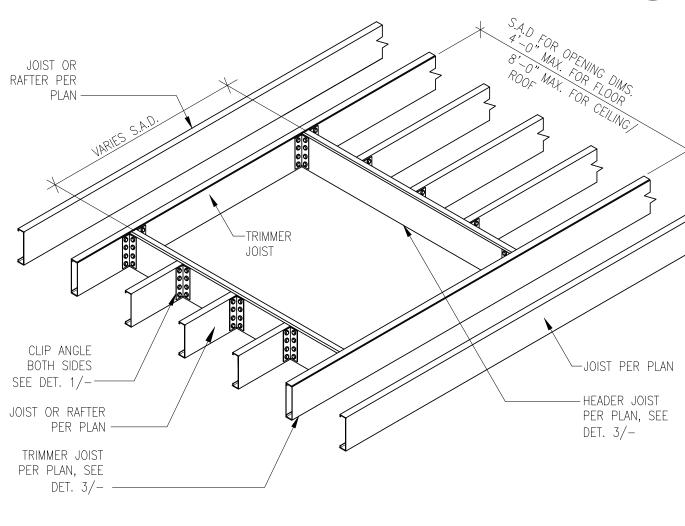




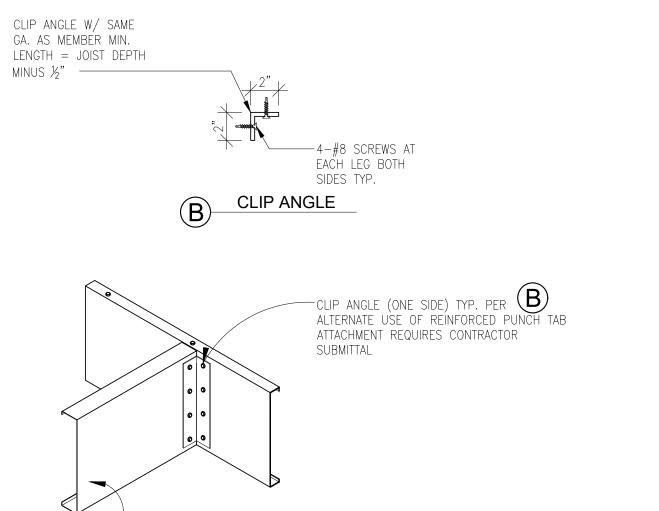


B ALTERNATE BLOCKING









TYPICAL JOIST TO JOIST

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