

ABBREVIATIONS

A/C	air conditioning	GL	glass	S.N.R.	sanitary napkin
A.C.	asphaltic concrete	GND.	ground		receptacle
A.F.F.	above finish floor	GYP.	gypsum	S.O.G.	slab on grade
ACCESS.	accessible	H.B.	hose bibb	S.S.	stainless steel
ACOUS.	acoustical	H.C.	hollow core	S.Y.	square yard
ADJ.	adjustable	H.M.	hollow metal	SAN.	sanitary
AGGR.	aggregate	H.V.A.C	heating, ventilating	SCHED.	schedule
AL	aluminum		air conditioning	SECT.	section
ALT.	alternate	HDW.	hardware	SHT.	sheet
ANC.	anchor	HDWD.	hardwood	SHTG.	sheathing
APPROX.	approximate	HORIZ.	horizontal	SIM.	similar
ARCH.	architect(ural)	HR.	hour	SPAC.	spacing
AUTO.	automatic	HT.	height	SPEC(S).	specification(s)
ABV.	above	HTR.	heater	SQ.	square
BD.	board	I.D.	inside diameter	STD.	standard
BTWN.	between		inch	STL.	steel
BIT.	bituminous	INCL.	include	STOR.	storage
BLDG.	building	INSUL.	insulation	STRUCT.	structural
BLK'G	blocking	INT.	interior	SUSP.	suspended
BM.	beam	INV.	invert	SYM.	symmetrical
BOT.	bottom	JAN.	janitor	SYS.	system
C.B.	catch basin	L.P.	low point	T.	tread
		LAB.	laboratory	T&B	top and bottom
C.I.	cast iron	LAM.	lamineate	T.C.	top of curb
C.I.P.	cast in place	LAV.	lavatory	T&G	tongue and groove
C.J.	control joint	LB.	pound	T.O.	top of
CAB.	cabinet	LOC.	location	T.O.C.	top of concrete
CEM.	cement	LT.	light	T.O.S.	top of sheathing
CER.	ceramic	M.H.	manhole	T.O.W.	top of wall
CLG.	ceiling	MACH.	machine	T.P.	top of pavement
CLR.	clear	MATL.	material	T.P.D.	toilet paper dispenser
COL.	column	MAX.	maximum	T.S.C.D.	toilet seat cover
CONC.	concrete	MECH.	mechanical		dispenser
CONSTR.	construction	MED.	medium	T.V.	television
CONT.	continuous	MEMB.	membrane	TEL.	telephone
COORD	coordinate	MEZZ.	mezzanine	TEMP.	temperature
CTR.	center	MFR.	manufacturer	TER.	terazzo
CTSK.	countersunk	MIN.	minimum or minute	THK.	thick
D.F.	drinking fountain	MISC.	miscellaneous	TYP.	typical
DBL.	double	MTD.	mounted	U.O.N.	unless otherwise noted
DET.	detail	MTL/MET.	metal	UR.	urinal
DIA.	diameter	N.I.C.	not in contract	V.C.P.	vitreous clay pipe
DIAG.	diagonal	N.T.S.	not to scale	V.C.T.	vinyl composition tile
DIM.	dimension	NO.	number	V.I.F.	verify in field
DISP.	dispenser	NOM.	nominal	V.T.R.	vent through roof
DN.	down	O/	over	V.W.C.	vinyl wall covering
DWG(S)	drawing(s)	O.C.	on center	VERT.	vertical
(E)	existing	O.D.	outside diameter	VEST.	vestibule
E.S.	each side	O.F.C.I.	owner furnish	W/	with
E.W.	each way		contractor install	W.C.	water closet
EA.	each		overflow drain	W/O	without
EL.	elevation	O.A.	overhead	W.P.	waterproof
ELEC.	electrical	O.H.	opening	W.W.F.	welded wire fabric
ELEV.	elevator	OPNG.	opening	WD.	wood
EMER.	emergency	OPP.	opposite	WDW.	window
ENCL.	enclosure	P.LAM.	plastic laminate	WSCT.	wainscot
ENGR.	engineer	P.V.C.	polyvinyl chloride	WT.	weight
EQ.	equal	PERF.	perforated		
EQUIP.	equipment	PLAS.	plaster		
ETC.	etcefera	PLBG.	plumbing		
EXP.	expansion	PLYWD.	plywood		
EXT.	exterior	PR.	pair		
		PREFAB.	prefabricated		
F.A.	fire alarm	PROJ.	projection		
F.D.	floor drain	PT.	point		
F.E.	fire extinguisher	Q.T.	quarry tile		
F.H.	flat head	R.C.P.	reinforced concrete pipe		
F.O.C.	face of concrete		or reflected ceiling plan		
F.O.F.	face of finish	R.D.	roof drain		
F.O.S.	face of stud	R.O.	rough opening		
FDTN.	foundation	R.W.L.	rain water leader		
FIN.	finish	RAD.	radius		
FLR.	floor	REF.	reference		
FLUOR.	fluorescent	REFL.	reflected		
FT.	foot or feet	REFR.	refrigerator		
FTG.	footing	REINF.	reinforced (ing) (ment)		
FURR.	furring	REQD.	required		
G.B.	grab bar	RESIL.	resilient		
G.C.	general contractor	RET.	retaining		
G.I.	galvanized iron	REV.	revision		
G.L.B.	glue laminated	RM.	room		
GA.	gauge	S.C.	solid core		
GALV.	galvanized	S.D.	soap dispenser		
		S.F.	square foot/feet		
		S.N.D.	sanitary napkin dispenser		

LEGEND

North Arrow
"N" Shows Project North
Arrow Shows True North

Detail
Section Identification
Sheet Where Detail
Can Be Found

Section Cut
Section Identification
Sheet Where Section
Can Be Found

Elevation
Section Identification
Sheet Where Elevations
Can Be Found
(Shaded area indicates
direction of elevation)

Door Callout

Window Callout

Dimension Type 1
Face of framing

Dimension Type 2
Face of finish - clear dimension

New Finish Grade
Shown Horizontally

Existing Grade
Shown at 45 Degrees

Reference Point
Control Point
Datum Point

Revision
Revision Inside Cloud
Revision Number Shown
Inside Triangle

Room Identification
Room Name
Ceiling Height from Finish Floor
Room Number
Sheet # Where Interior
Elevations are Located

Toyon Elementary School

Flexible Instruction Space

995 Bard Street, San Jose, CA 95127

STATE AGENCY REQUIREMENTS

All numbers refer to Part 1, Title 24, CCR.

- Addenda and CCD's shall be processed per section 4-338. Any condition encountered that is not covered by DSA approved documents shall be detailed and submitted and approved by DSA prior to execution of the work.
- Inspector shall be certified and approved by DSA. Inspector and continuous inspection of work per section 4-333(b) & 4-342.
- Tests and testing laboratory per section 4-335 (employed by owner)
- Provide special inspection per section 4-333(c).
- Contractor, Inspector, Architect and Engineer shall submit verified reports per section 4-336 & 4-343(c).
- Administration of construction per Part 1, Title 24, CCR
 - Duties of Architect, Structural Engineer, or profession engineer per section 4-333(a) & 4-341.
 - Duties of contractor per section 4-343
 - Verified reports per section 4-336 & 4-343(c)
- Governing Codes: Title 24, CCR.
- A copy of Part 1, Part 2 & Part 5 of Title 24 shall be kept and available in field during construction.
- DSA shall be notified on start of construction per section 4-331.
- Supervision by the Division of the State Architect per section 4-334.
- Separate application may be required for all N.I.C. items not part of DSA approval.
- Special inspection on masonry, glu-lam beams, wood framing using timber connectors, ready-mixed concrete, gunite, prestressed concrete, high strength steel bolts, welding, pile driving, and mechanical and electrical work shall be required by Section 4-333(c). Special inspectors will be employed by owner.
- DSA is not subject to arbitration

GOVERNING CODES

- 2016 California Code of Regulations
- 2016 California Building Standards Administration Code, Part 1, Title 24, C.C.R.
- 2016 California Building Code (CBC), Part 2, Title 24, C.C.R.
- 2016 California Electrical Code (CEC), Part 3, Title 24, C.C.R.
- 2016 California Mechanical Code (CMC), Part 4, Title 24, C.C.R.
- 2016 California Plumbing Code (CPC), Part 5, Title 24, C.C.R.
- 2016 California Energy Code (CEC), Part 6, Title 24, C.C.R.
- 2016 California Fire Code (CFC), Part 9, Title 24, C.C.R.
- 2016 California Green Building Standards Code (CALGreen), Part 11, Title 24 C.C.R.
- 2016 California Referenced Standards Code, Part 12, Title 24, C.C.R.
- C.C.R. Title 19, Regulations of the State Fire Marshal
- 2010 ADA Standards for accessible design

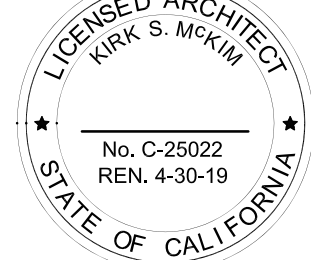
APPLICABLE NFPA STANDARDS

National Reference Standards:		
NFPA 13	Automatic Sprinkler Systems (CA Amended)	2016 Edition
NFPA 14	Standpipes Systems (CA Amended)	2013 Edition
NFPA 17	Dry Chemical Extinguishing Systems	2013 Edition
NFPA 17a	Wet Chemical Extinguishing Systems	2013 Edition
NFPA 20	Stationary Pumps	2016 Edition
NFPA 24	Private Fire Mains (CA Amended)	2016 Edition
NFPA 72	National Fire Alarm Code (CA Amended)	2016 Edition
NFPA 80	Fire Door and Other Opening Protectives	2016 Edition
NFPA 2001	Clean Agent Fire Extinguishing Systems	2015 Edition

DRAWING REVIEW STATEMENT *

X The drawings or sheets listed under *Mechanical, Plumbing, and Electrical* on the cover or index sheet
This drawing, page or specifications / calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. They have been examined by me for:
1) design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations as well as the project specifications prepared by me, and
2) coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.



The Statement of General Conformance "shall not be construed as relieving me of my rights, duties and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 40341 and 4-344" of Title 24, Part 1. (Title 24, Part 1, Section 4-317 (b))

SHEET INDEX

Architectural

- A-0.0 TITLE SHEET
- A-1.0 SITE PLAN
- AC-1.0 SITE DEMOLITION
- AC-2.0 SITE GRADING, PAVING, DRAINAGE
- A-3.0 DEMOLITION & FLOOR PLANS
- A-4.0 DEMOLITION & REFLECTED CEILING PLAN
- A-6.0 EXTERIOR ELEVATIONS
- A-8.0 INTERIOR ELEVATIONS
- A-8.1 INTERIOR ELEVATIONS
- A-9.0 ENLARGED RESTROOM FLOOR PLAN
- A-9.1 ENLARGED RESTROOM FLOOR PLAN
- A-10.0 SCHEDULES
- A-12.2 SITE DETAILS
- A-12.2.1 SITE DETAILS
- A-12.6 FRAMING & CASEWORK DETAILS
- A-12.8 DOOR & WINDOW DETAILS
- A-12.9 CEILING FINISH DETAILS
- A-12.10 SPECIALTIES DETAILS

A-1 **FOR REFERENCE ONLY:** TITLE SHEET, SITE PLAN, FLOOR PLAN, CEILING PLAN, INTERIOR ELEVATIONS

Mechanical

- M0.1 LEGEND, INDEX, ABBREVIATIONS, & GENERAL NOTES
- M2.1 MECHANICAL FLOOR PLAN
- M6.1 MECHANICAL DETAILS

Plumbing

- P-0.1 PLUMBING LEGEND, NOTES, SCHEDULES & DRAWING INDEX
- P-1.1 PLUMBING SITE PLAN
- P-2.1 PLUMBING DEMO & BUILDING E FLOOR PLAN
- P-3.1 PLUMBING FLOOR PLAN- BUILDING H
- P-4.1 PLUMBING DETAILS
- P-4.2 PLUMBING DETAILS

Electrical

- E0.1 ELECTRICAL SYMBOLS, ABBREVIATIONS, GENERAL NOTES & DRAWING INDEX
- E0.2 TITLE 24 COMPLIANCE- LIGHTING
- E1.1 ELECTRICAL SITE PLAN
- E2.1 ELECTRICAL PLANS
- E4.1 DETAILS
- E7.1 FIRE ALARM DETAILS
- E7.2 FIRE ALARM RISER AND CALCULATIONS

GENERAL CONSTRUCTION NOTES

- All work shall be performed in conformance with local, county, state and federal codes, laws, and regulations applicable to this work, including CCR Title 19, and CBC 2016.
- Existing construction data shown on the drawings was obtained from available drawings. The contractor shall verify all existing conditions and shall notify the architect of all exceptions before proceeding with the work.
- All discrepancies between drawings shall be clarified with the architect prior to proceeding with the work.
- In the event that certain features of the construction are not fully shown or detailed on the drawings or called for in the general notes, then their construction shall be of the same character as similar conditions shown or called for.
- Verify electrical, mechanical, fire alarm, telephone and security requirements before construction begins.
- Any item identified to be demolished, removed, or relocated is to be completely removed, including but not limited to any concealed items (pipes, curbs, framing, beams, fasteners, etc.). All items within a demolished area that must be rerouted in order to maintain continuity shall be done so in accordance with appropriate specification sections in the project manual at no additional cost. If no specification can be found within the project manual, then continuity shall be maintained by current standard methods for construction but not lesser in quality than existing. Any area of demolition or removal shall be left in a completely finished condition as outlined in the project manual.
- Contractor to coordinate with District prior to beginning work.
- The intent of these drawings and specifications is that the work of the alteration, rehabilitation or reconstruction is to be in accordance with Title 24, California Code of Regulations. Should any existing conditions such as deterioration or noncomplying construction be discovered which is not covered by the contract documents wherein the finished work will not comply with Title 24, California Code of Regulations, a change order, or a separate set of plans and specifications, detailing and specifying the required repair work shall be submitted to and approved by DSA before proceeding with the repair work.
- Compliance with CFC Chapter 14, fire safety during construction and demolition and CBC Chapter 33, safety during construction will be enforced.

PROJECT DIRECTORY

CLIENT	Berryessa Union School District	ph. (408) 923-1800
	1376 Piedmont Rd.	San Jose, CA 95132
ARCHITECT	McKim Design Group	ph. (408) 927-8110
	4595 Cherry Ave. 1st Floor	San Jose, CA 95118
	Kirk S. McKim, Architect	
MECHANICAL ENGINEER	Alfatech	ph. (408) 487-1200
	1321 Ridder Park Drive #50	San Jose, CA 95131
	Tim Chadwick, Mechanical Engineer	
PLUMBING ENGINEER	Alfatech	ph. (408) 487-1200
	1321 Ridder Park Drive #50	San Jose, CA 95131
	Abolhassan Mokhtari, Plumbing Engineer	
ELECTRICAL ENGINEER	Alfatech	ph. (408) 487-1200
	1321 Ridder Park Drive #50	San Jose, CA 95131
	Mark Fisher, Electrical Engineer	

DEFERRED APPROVALS

None

PROJECT SUMMARY

This project includes modernizing an (E) library into a Flexible Learning Space and installation of new finishes. This project also includes striping for accessible parking and related site work.

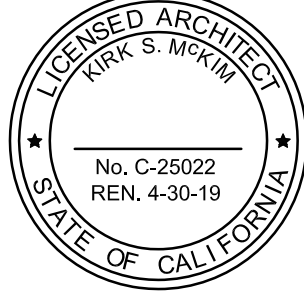
No	Revisions/Submissions	Date
	DSA Back-Check	10.17.18

VICINITY MAP



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Architect Seal



Project Title

TOYON ELEMENTARY SCHOOL
995 BARD STREET
SAN JOSE, CA 95127
FLEXIBLE INSTRUCTIONAL SPACE

Client

BERRYESSA UNION SCHOOL DISTRICT
1376 PIEDMONT ROAD
SAN JOSE, CA 95132

No	Revisions/Submissions	Date
	DSA Back-Check	10.17.18

Drawing Title

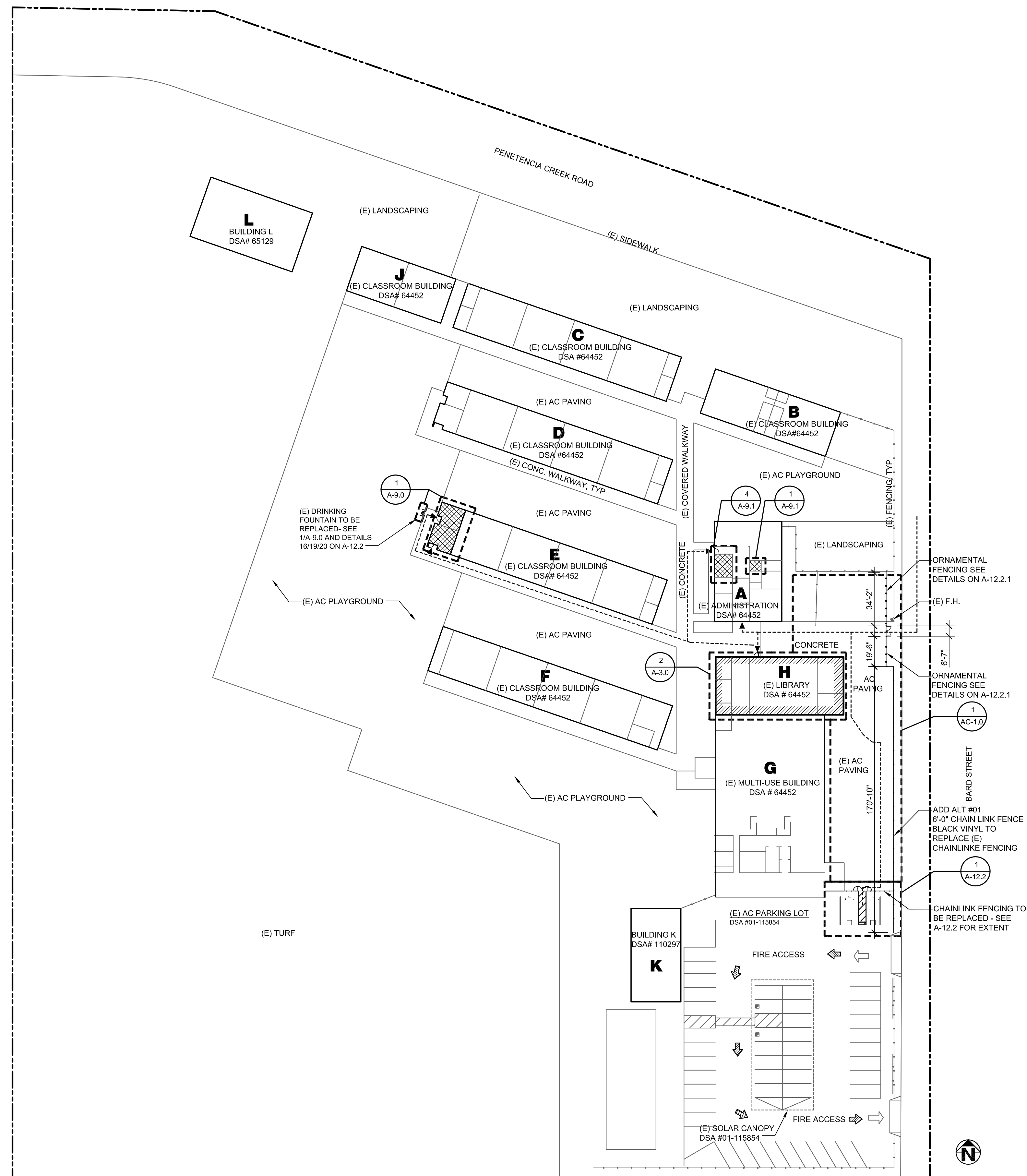
TITLE SHEET

Project No.	Date
1711	August 6, 2018

Regulatory Agency Approval
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117713
ACS FLS SSS
DATE _____

File: 43-7

Drawing Number
CD A-0.0



BUILDING INFORMATION

BUILDINGS G & H

DSA #: 64452
Type of Construction: V-1hour
Occupancy: E
Fire sprinkler: No
Stories: One
Area: 11,417 sf

NOTE:
No change in occupancy or building area is occurring with this project. The scope of work is primarily new finishes, lighting, electrical power and data, plumbing and minor mechanical adjustments.

PARKING REQUIREMENTS

(E) AC Parking Lot, DSA #01-115854

(E) Standard Stalls = 47
Accessible Stalls = 3 (modified in this project, see sheet AC-2.0)
Van Accessible Stalls = 1

Per CBC Table 11B-208.2, (2) accessible stalls are required of which (1) shall be van accessible. Therefore the parking lot complies.

GENERAL NOTES / LEGEND

Accessible path of travel (hereafter, P.O.T.) as indicated on plan is a barrier-free access route without any abrupt level changes exceeding 1/2" if beveled at 1:2 max slope, or vertical level changes not exceeding 1/4", and at least 48" in width. Surface is stable, firm and slip resistant. Cross slope shall not exceed 1:50 (2%) and shall be 1:50 or less if less than 5% (1:20) unless otherwise indicated. Accessible P.O.T. shall be maintained free of overhanging obstructions 80" minimum, and protruding objects greater than 4" projection from wall and above 27" and less than 80". Architect shall verify that there are no barriers in the P.O.T.. Accessible path of travel shall be clear of any obstructions by a person with a disability using a wheelchair, and that is also safe for and usable by persons with other disabilities. IOR shall verify that there are no barriers in the P.O.T..









DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE
STATEMENT:

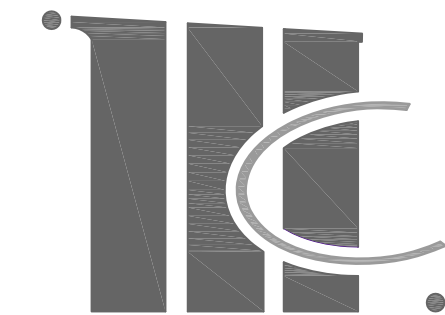
The POT identified in these construction documents is compliant with the current applicable California Building Code accessibility provisions for **path of travel requirements for alterations, additions and structural repairs**. As part of the design of this project, the POT was examined and any elements, components or portions of the POT that are not in compliance (i.e. noncompliant 1) have been identified and 2) the corrective work necessary to bring them into compliance has been included within the scope of this project's work through details, drawings and specifications incorporated into these construction documents. Any noncompliant elements, components or portions of the POT that will not be corrected by this project based on valuation threshold limitations or a finding of unreasonable hardship are so indicated in these construction documents. During construction, if POT items within the scope of this project are found to be noncompliant, they shall be nonconforming beyond reasonable construction tolerances, they shall be brought into compliance with the CBC as part of this project by means of a construction change document.

Accessible path of travel as shown on the plans can be negotiated by a person with a disability using a wheelchair, and is also safe for and useable by persons with other disabilities.

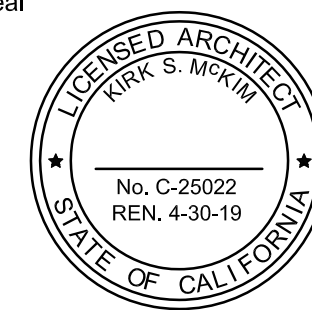
Existing accessible routes to all facilities and buildings that are operational during construction phase shall remain unobstructed, safe and useable by people with disabilities.

At accessible door locations shown along the POT, adjust door closers to 5 lbs max pressure.

	PROPERTY LINE
	ACCESSIBLE PATH OF TRAVEL
	ACCESSIBLE ENTRANCE
	(E) FIRE HYDRANT
	FIRE ACCESS
	ACCESSIBLE DRINKING FOUNTAIN
	ACCESSIBLE RESTROOM
	BUILDING SCOPE OF WORK



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Project Title

TOYON ELEMENTARY
SCHOOL
995 BARD STREET
SAN JOSE, CA 95127
FLEXIBLE INSTRUCTION
SPACE

Client

BERRYESSA UNION SCHOOL DISTRICT
1376 PIEDMONT ROAD
SAN JOSE, CA 95132

No	
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	DSA Back-Check	10.17.18

Drawing Title

CODE PLAN
SITE PLAN

Project No. 17

Date
August 6, 2018

Regulatory Agency Approval

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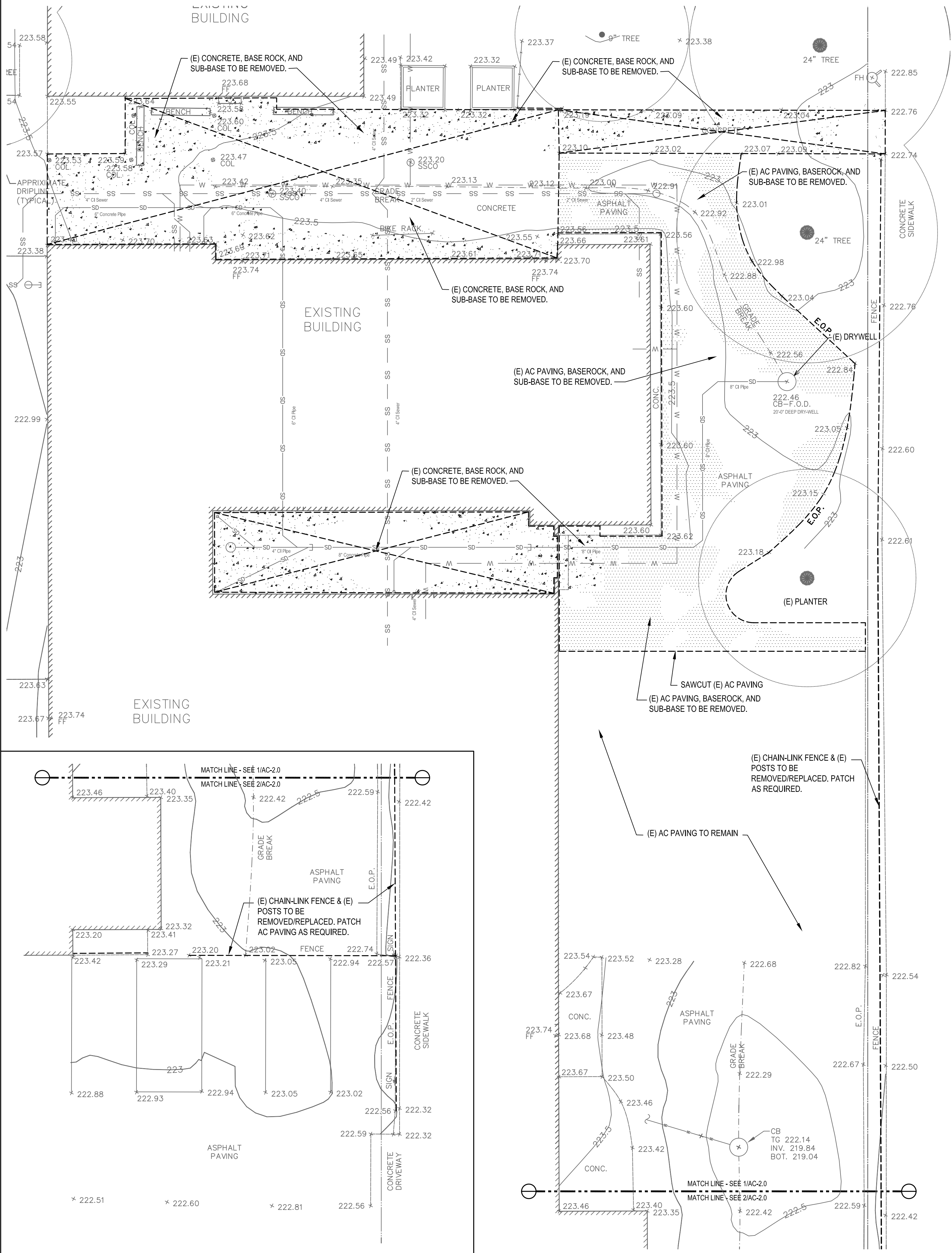
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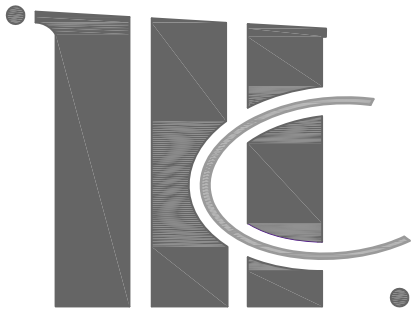
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Drawing Number	A-1.0
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2	ENLARGED SITE PLAN	1/8" = 1'-0"
1	ENLARGED SITE PLAN	1/8" = 1'-0"



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Architect Seal



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No	Revisions/Submissions	Date
	DSA Back-Check	10.17.18

Drawing Title

ENLARGED SITE PLAN
DEMOLITION

Project No. 1711	Date August 6, 2018
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DATE _____

File: 43-7

CD	Drawing Number AC-1.0
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General Notes

- All work shall be performed in conformance with the following:
 - Applicable sections of the state of california department of transportation standard specifications, latest edition, hereinafter referred to as "caltrans",
 - City of san jose standard specifications and details for public works construction where applicable,
 - These plans and details,
 - Standards of the united states department of labor, occupational safety and health administration , office of standards and rules of the state division of industrial safety,Where conflicts exist between any of the above listed specifications, the most stringent listed specification shall apply.
- It is the responsibility of the contractor to secure all permits necessary to perform the work, including but not limited to work in the public right-of-way, grading, tree removal, and utility modifications.
- Contractor shall supply all equipment, labor and materials necessary to perform the work shown on this plan.
- It shall be the responsibility of the various contractors to coordinate their work so as to eliminate conflicts and work toward the general good and completion of the entire project.
- All workmanship and materials furnished by the contractor shall be the kind and quality described in the specifications and shall be first class throughout. neither final acceptance nor final payment by owner shall relieve the contractor of responsibility for faulty materials or workmanship
- In the event of any conflict of information shown on these plans or any conflict between these plans and the intent of a consistent and functional product, the contractor shall so notify the owner in writing, upon which notice the owner shall resolve the conflicts by the issuance of a written order, revised plans or both. the contractor shall bear full cost and responsibility for work affected by such conflicts and performed by contractor prior to such notice to the owner and issuance of such order and/or revised plans.
- Contractor shall provide adequate dust control at all times as required by owner's representative.
- Contractor shall exercise all necessary caution to avoid damage to any existing trees, or surface improvements or to any existing drainage structure, water structure, sewer cleanouts, manholes, or junction boxes for underground electric, gas, telephone, cable t.v., storm, sanitary, water or other utilities which are to remain in place and shall bear full responsibility for any damage thereto.
- All known existing utility lines are shown for information only. contractor shall exercise all necessary caution to avoid damage to any existing utility lines or facilities to remain in place, whether or not such facilities appear on these plans, and shall bear full responsibility for any damage thereto.
- Contractor shall contact both underground service alert (800-227-2600) and the affected utility company prior to starting work to request and obtain the marking of existing underground facilities.
- Contractor shall obtain the services of a licensed land surveyor to provide construction staking.

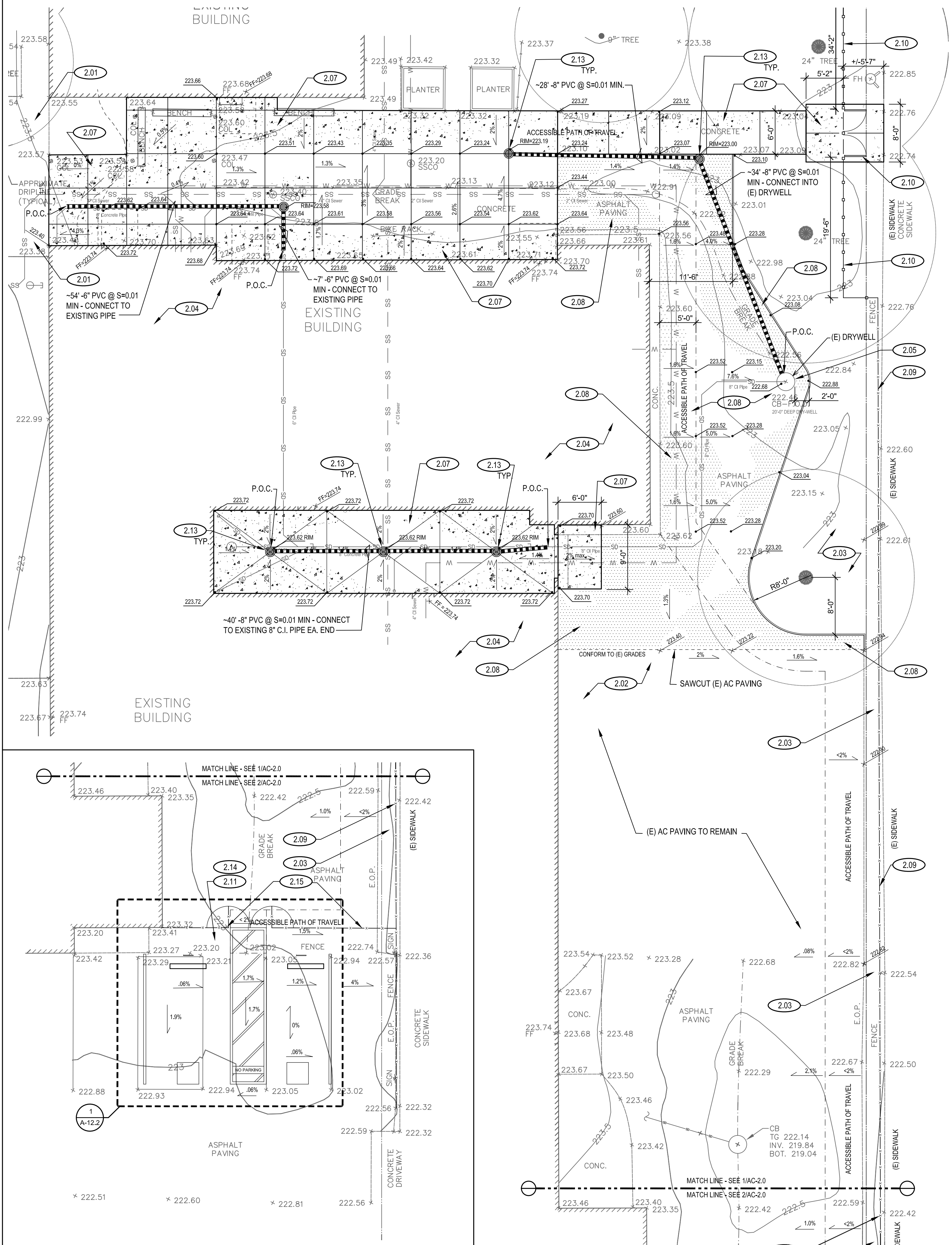
Underground Notes

- Contractor shall expose and verify location and elevation of existing utilities, including sanitary and storm sewers, and water lines before constructing new facilities. Trenching and construction of new facilities shall start at the downstream connection and work upstream. Verify there are no conflicts on the line before backfilling trench.
- Materials for pipe, storm water inlets and cleanouts and installation procedures shall be in accordance with applicable sections of the city of San Jose standard specifications and these plans and details shown hereon. Storm sewer pipe designated "PVC" shall be SDR26 or better.
- All trench excavation and backfill for sewer lines shall conform to requirements of the city of San Jose standard specifications. Jetting of backfill materials to achieve compaction is not allowed.
- All trenches and excavations shall be constructed in strict compliance with the applicable sections of California and Federal O.S.H.A. requirements and other applicable safety ordinances. Contractor shall bear full responsibility for trench shoring design and installation.
- Existing utilities shown on the plans are taken from old construction drawings provided by owner. It shall be the responsibility of the contractor to pothole crossings and connection points prior to start of work in order to verify that construction may proceed without conflicts. Any potential conflicts shall be immediately reported in writing to the owner, architect and engineer for direction.

Grading & Paving Notes

- Work shall consist of all clearing (including tree removal), grubbing, and stripping, preparation or land to be filled, excavation, spreading, compaction and control of the fill, and all subsidiary work necessary to complete the grading to conform to the lines, grading and slopes, as shown on the accepted plans and as required by owners representative.
- A representative of the owner shall be on site during grading operations and shall perform such testing as deemed necessary. the representative shall observe the grading operation for conditions that should be corrected, and identify those conditions with recommended corrective measures to the contractor.
- In the event that any unusual conditions not covered by these notes are encountered during grading operation, the owner shall be immediately notified for directions.
- All existing trash, debris, roots, tree remains and other rubbish shall be removed from the site so as to leave the areas that have been disturbed with a neat and finished appearance free from unsightly debris. No burning shall be permitted.
- All aggregate base material and the handling and placement thereof shall be in accordance with the city of San Jose standard specifications. Aggregate base materials shall be class II.
- Contractor shall adjust all inlets, valve boxes, manhole rims, and sewer cleanouts to new finish grade.
- Materials handling and placement of portland cement concrete shall be in accordance with applicable sections of the city of San Jose standard specifications and these plans and details shown hereon.
- Contractor shall grade to the line and elevations shown on the plan within the following horizontal and vertical tolerance, in the areas indicated:

	horizontal	vertical
A. Building pad subgrade	0.50"+	0.05"+
B. Asphalt pavement	0.50"+	0.06"+
C. Concrete flatwork	0.10"+	0.04"+

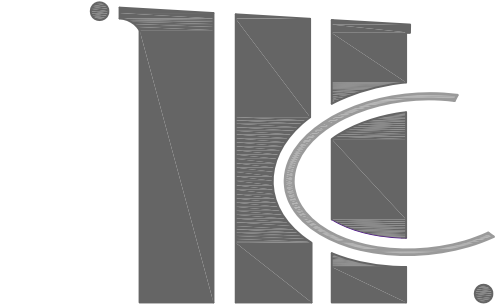


Key Notes:

- (E) Concrete to remain
- (E) AC paving to remain- saw-cut at line indicated to accommodate scope of work. Provide flush transition at AC paving joint, typ.
- (E) Planter to remain
- (E) Building
- (E) Drain inlet / Drywell - completely clean out and flush the drain and all lines running into and out of the drain inlet. Reset the drain box with revised grades and as required to complete scope of work.
- Not Used.
- (E) Concrete to be removed and replaced. Assume existing concrete is 5" thick with #4 bars at 18" O.C. Carefully saw-cut all edges and remove concrete, baserock, and subgrade as required to allow proper installation of concrete per details on Sheet A-12.2. This includes providing compacted subgrade and replacing all baserock. See details on A-12.2 for each specific condition.
- (E) AC paving to be removed and replaced. Carefully saw-cut all edges and provide AC paving per 9/A-12.2 and other details on A-12.2 as applicable. Provide header board along ALL landscape edges per details 7/A-12.2.1, typ.
- Replace (E) chain-link fencing with 6'-0" high vinyl coated chain link fence per details on sheet A-12.2.1. This is ALTERNATE #01.
- Provide 6'-0" high ornamental fence and gates per details on sheet A-12.2.1.
- Replace existing chain-link with 5'-0" high chain-link fence and pair of 3'-0" gates. See details on sheet A-12.2.1.
- Not Used
- Catch Basin/Area Drain - Install area drain in as indicated. Connect to (E) drain inlets or (E) pipes as shown and set invert elevation as required by existing elevations and slope requirements for pipes into and out-of area drain.
- Patch AC paving to match (E) as required for scope.
- Provide 6'-0" high vinyl coated chain link fence per details on sheet A-12.2.1. This section is part of the base bid.

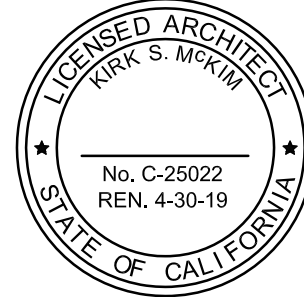
Legend

- Concrete to be replaced. See note 2.07 above and details on sheet A-12.2. Minimum to be 4" concrete w/ #4 @ 18" O.C. ea direction over 8" class II agg. base compacted to 95% over subgrade compacted to 95%
- AC Paving- See notes 2.02 and 2.08 above and 9/A-12.2.
- Area Drain - provide Jensen or Christy concrete drain box with with P-series 12"x12" bolt down galv. steel grate or approved equal - 1/2" max. space at grate.
- Storm drain line - see call-out for size & slope
- Existing grade callout
- Proposed grade callout



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Architect Seal



Project Title

**TOYON ELEMENTARY
SCHOOL**
995 BARD STREET
SAN JOSE, CA 95127
**FLEXIBLE INSTRUCTIONAL
SPACE**

Client

BERRYESSA UNION SCHOOL DISTRICT
1376 PIEDMONT ROAD
SAN JOSE, CA 95132

No

Revisions/Submissions

Date

DSA Back-Check

10.17.18

Drawing Title

ENLARGED SITE PLAN

Project No.

1711

Date

August 6, 2018

Regulatory Agency Approval

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPL 01-117713
ACS FLS SSS

DATE

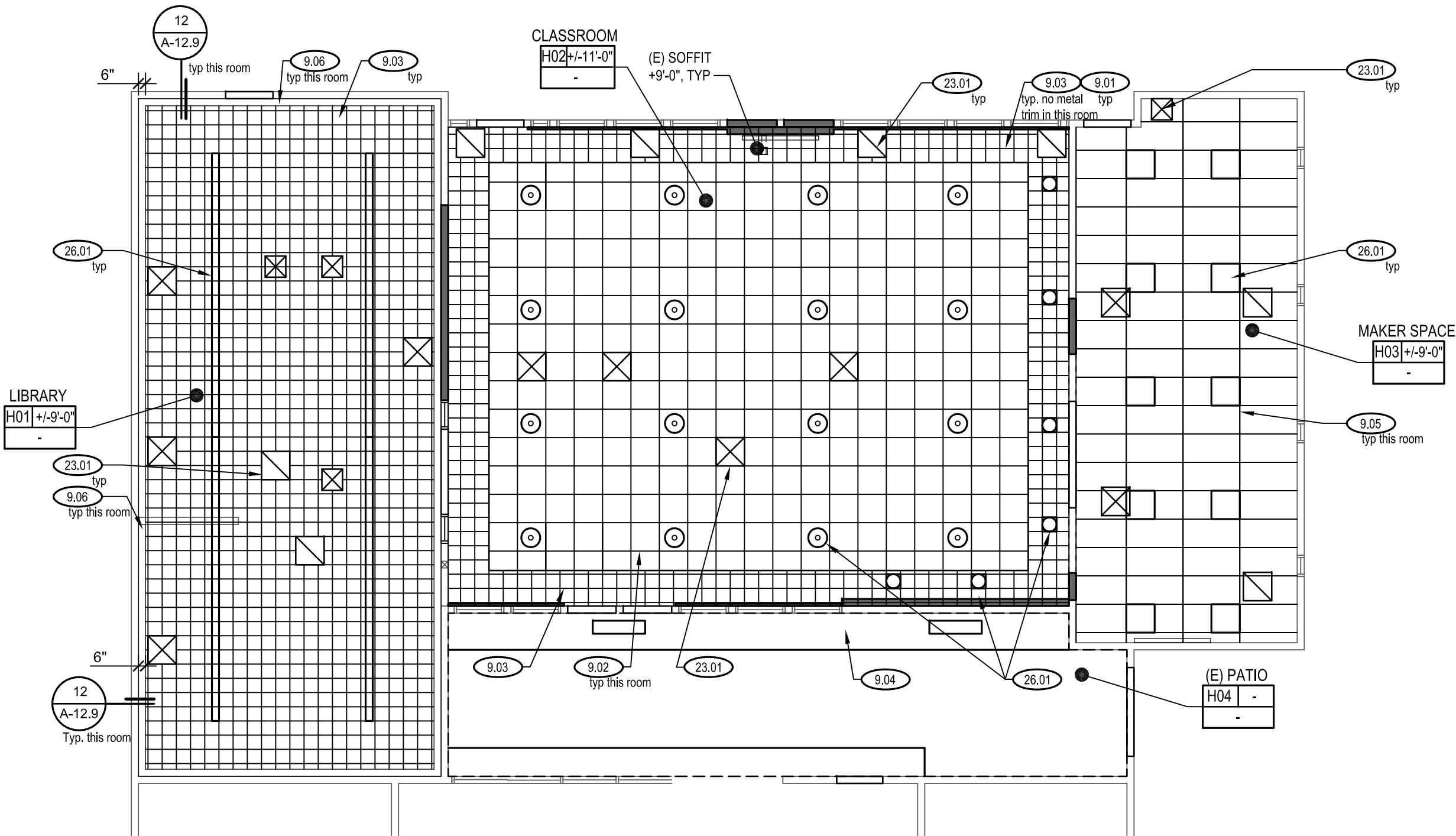
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Drawing Number

CD

AC-2.0

A-3.0



REFLECTED CEILING PLAN GENERAL NOTES

- For soffit heights not indicated see interior elevations and sections
- See sheet A-12.9 for typical T-bar ceiling details.
- See electrical drawings for all lights not shown on these plans.
- Provide +/-24"x30" access panel (verify size in field with Architect) into all concealed ceiling spaces as required by code. Paint access panel to match adjacent finish.
- Refer to mechanical plans for ceiling-mounted equipment, typ.
- Contractor to dust all surfaces, not limited to walls, ceilings, floor, at completion of project.
- This building is Type V, one hour construction. All cutting and patching of (E) surfaces, finishes, framing, etc., and installation of work as shown on all plans shall comply with the code to meet requirements of Type V, one hour construction.

REFLECTED CEILING PLAN KEY NOTES

- 9.01 (E) Soffit to remain including gyp bd finish, patch as required for scope of work, paint, typ.
- 9.02 (E) T-Bar ceiling system to remain, paint entire system including grid, tiles, and mechanical grilles/registers, typ.
- 9.03 Glue-up ceiling tiles over (E) gyp bd finish, typ. (Do not provide 6" edge band at soffit location)
- 9.04 (E) Cement plaster soffit, paint to match (E) color, typ.
- 9.05 Installed T-bar ceiling system, typ. See details on A-12.9.
- 9.06 6" metal edge trim around glue-up ceiling tiles, typ.
- 23.01 Mechanical item - see mechanical drawings, typ. Clean and paint all grilles.
- 26.01 Electrical item - see electrical drawings, typ.

REFLECTED CEILING PLAN LEGEND

(E) WALL, typ

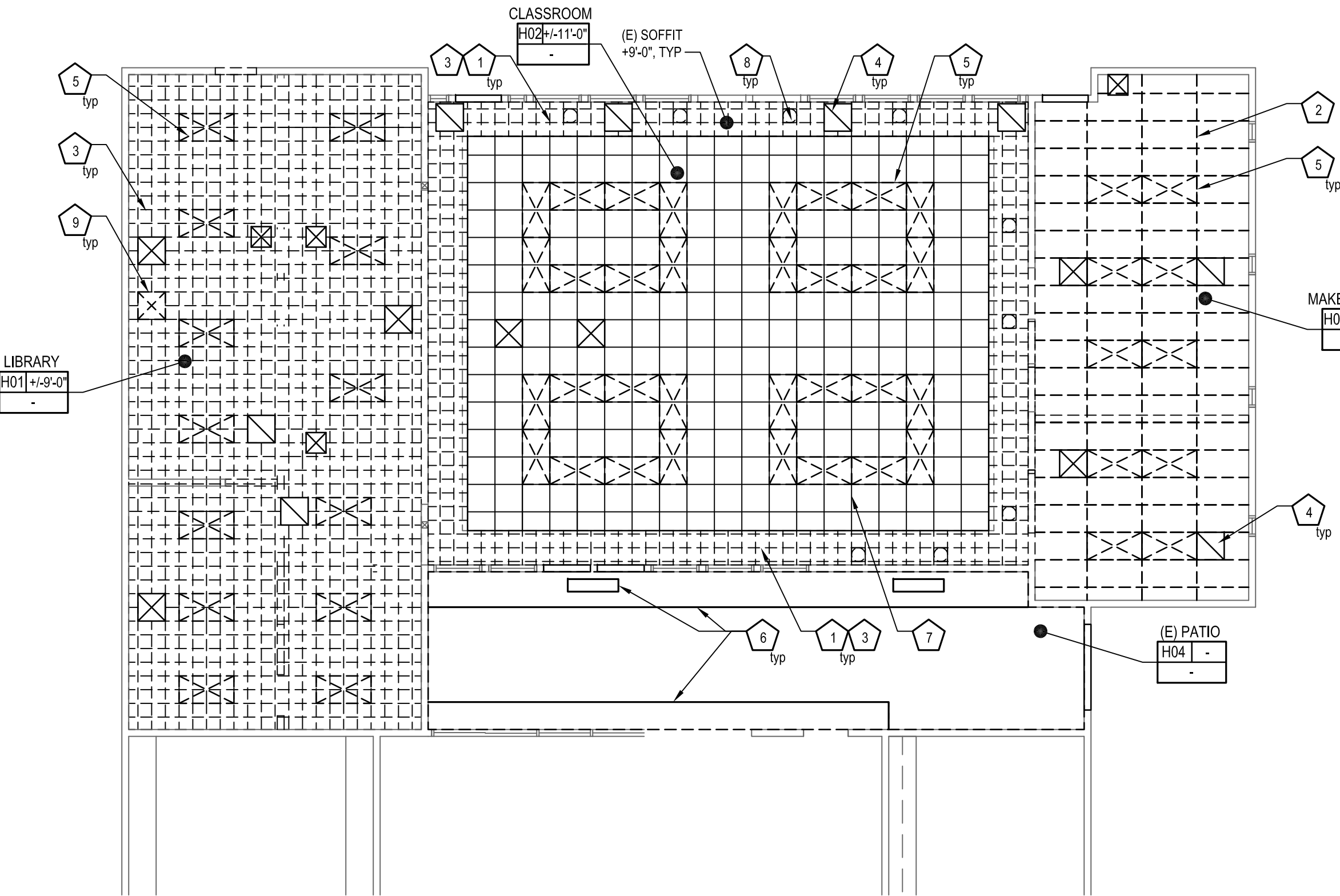
T-BAR CEILING SYSTEM WITH LAY-IN TILES
see A-12.9 and finish schedule

GLUE-UP CEILING TILES
see A-12.9 and finish schedule

LIGHTING FIXTURES

REFLECTED CEILING PLAN DEMOLITION NOTES

- (E) Soffit framing and gyp bd under glue up tiles to remain.
- (E) T-bar ceiling system to be demolished.
- (E) Glue-up ceiling tiles to be demolished from (E) gyp bd finish.
- (E) Mechanical item to remain, typ.
- (E) Lighting to be demolished.
- (E) Cement plaster soffit and lighting to remain, paint, typ.
- (E) T-bar ceiling system to remain, prep for painting including (E) acoustical tiles, typ.
- (E) Recessed lighting to be demolished and replaced. Where lights are not replaced in (E) locations patch ceiling gyp bd prior to installing glue up tile.
- (E) Mechanical item to be demolished.



SCOPE OF WORK

FLOOR

- Demolish and replace floor finish (carpet, VCT, tile) and base in all rooms unless noted otherwise. Extend flooring under all counters, open areas and into accessible sink cabinets. Provide floor prep and floor leveling as required. Coordinate finish with plans and finish schedule. Areas shown on plan are approximate, contractor to field verify exact dimensions prior to bid.
- Provide transition pieces between different flooring material at all locations, typ.

WALLS

- (E) Gyp. board is to remain unless noted otherwise. Contractor to selectively demolish areas of gyp board and wall finish as required for concealing conduit, utilities, etc. Patch back to match existing, unless otherwise specified.
- Paint all interior gyp board (walls and soffits), trim, exposed conduit, mechanical grilles, exposed HVAC ducts, doors and door frames, etc...Color to be selected by architect. All door frames shall be painted on both sides and all doors shall be painted on all sides and edges. Prior to painting gyp bd surfaces retexture all walls. Textured finish shall be selected by architect.
- Prepare all (E) walls to remain prior to painting. This includes, but is not limited, to patching cracks, holes, sanding, texturing, etc....
- Remove, clean and paint all mechanical grilles.
- ALL gyp. bd. shall be 5/8" type 'X'.
- Insulation:
 - Exterior Walls: Provide R-19 (minimum) Batt insulation in all exterior walls from floor to roof diaphragm where possible. Fill wall cavity, typ.
 - Interior Walls: Provide sound attenuation batt insulation in all walls from floor to roof diaphragm. Fill wall cavity, typ.

CASEWORK

- (E) upper & lower casework to be demolished unless otherwise noted.
- (E) sinks & faucets (where occur) to be demolished unless noted otherwise.
- For casework mounting/ anchorage refer to A-12.6

CEILING

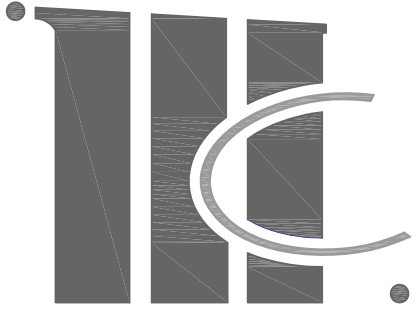
- (E) Ceiling finish (glue-up ceiling tiles, lay-in tiles) to be demolished unless noted otherwise. In areas of wall demolition, patch ceiling as required for scope of work.
- Patch (E) T-bar ceiling system and provide additional tile as needed where (E) lighting has been removed.

SIGNAGE

- Remove and replace room identification & restroom signage at ALL interior and exterior doors throughout the campus per details on sheet A-12.10. Patch as required. Where signs have to be relocated patch and paint (E) sign location.
- Where signs are to be installed on glass provide sign backing on opposite side of glass.

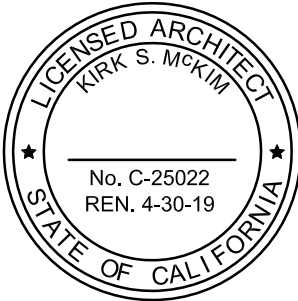
DOORS & HARDWARE

- Remove & replace all hardware within the F.I.S. space as noted on plans and specs.



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FLEXIBLE INSTRUCTIONAL
SPACE

Client

BERRYESSA UNION SCHOOL DISTRICT
1376 PIEDMONT ROAD
SAN JOSE, CA 95132

No	Revisions/Submissions	Date
	DSA Back-Check	10.17.18

Drawing Title

REFLECTED CEILING PLAN

Project No. 1711	Date August 6, 2018
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Regulatory Agency Approval

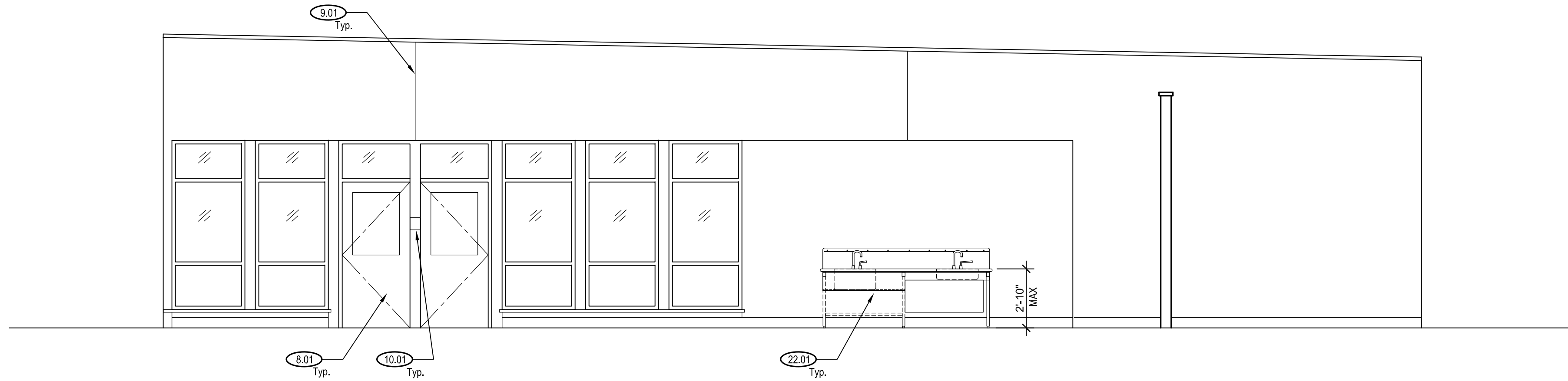
IDENTIFICATION STAMP
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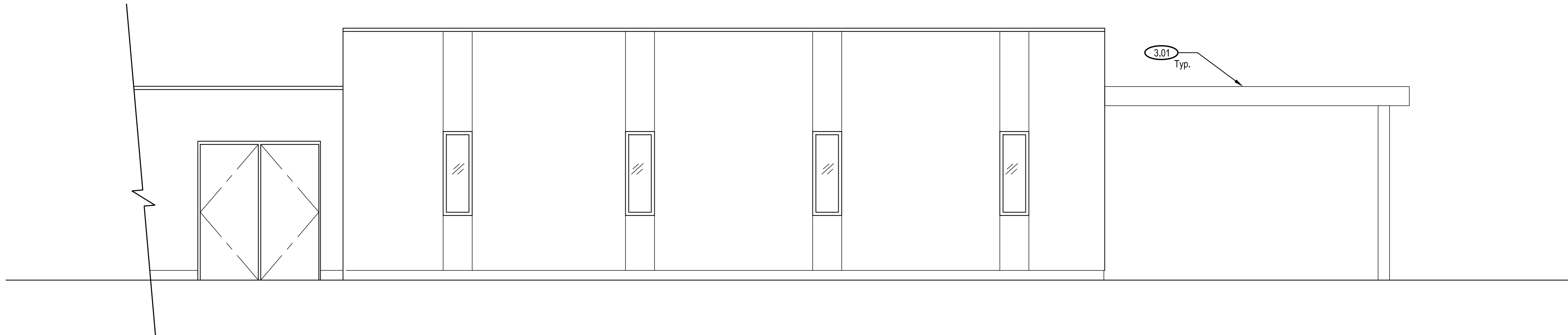
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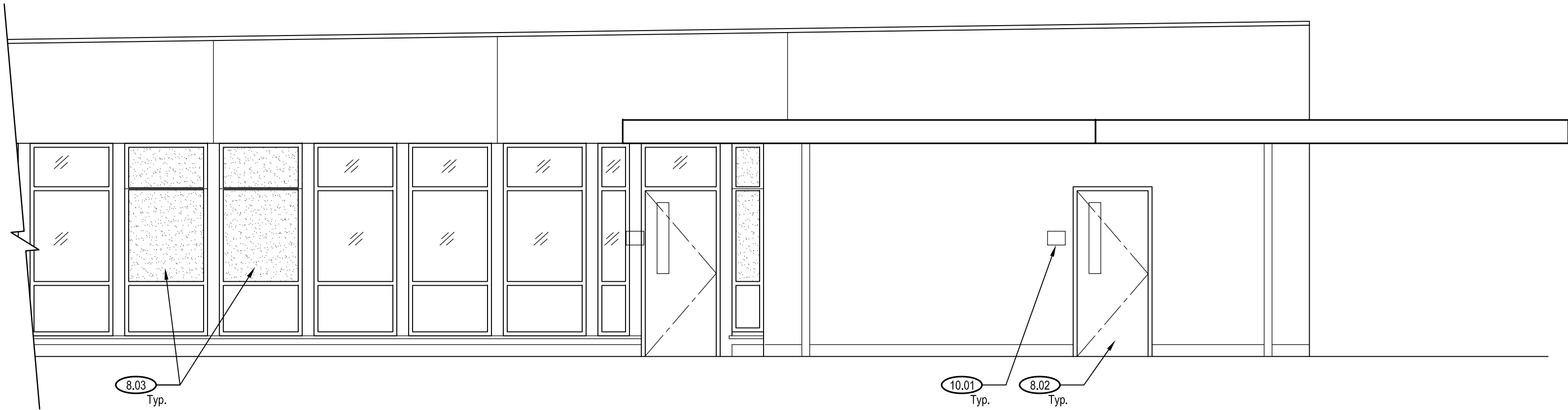
4 SOUTH ELEVATION (PATIO)

1/4"= 1'-0"



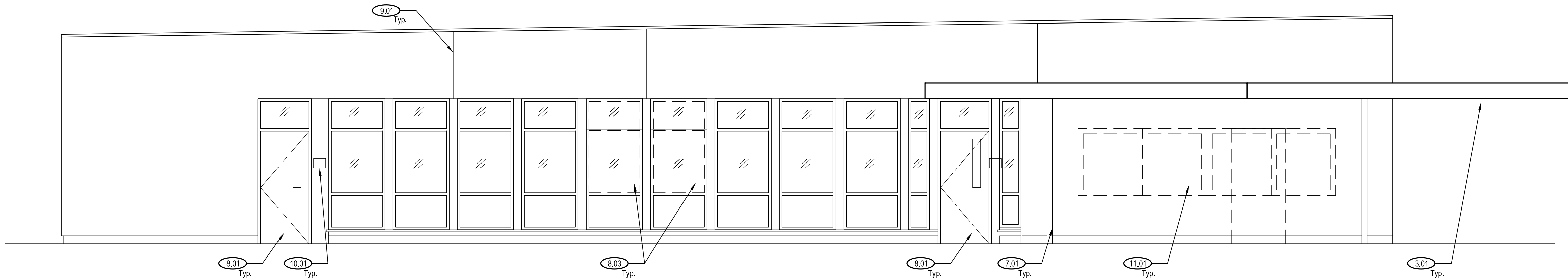
3 EAST ELEVATION

1/4"= 1'-0"



2 PARTIAL NORTH ELEVATION SHOWING NEW DOOR

1/4"= 1'-0"



1 NORTH ELEVATION- DEMOLTION

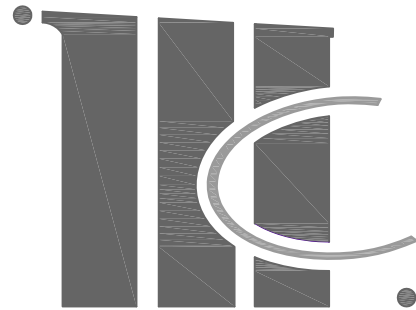
1/4"= 1'-0"

EXTERIOR ELEVATIONS - GENERAL NOTES

1. Contractor to protect all existing surfaces to remain.
2. Coordinate entire scope of work with hazardous materials report.
3. Provide all demolition and patch back for all scope of work.

EXTERIOR ELEVATION KEY NOTES

- 8.10 (E) Covered walkway to remain, typ.
- 7.01 (E) Rain water leader to remain, typ.
- 8.01 (E) Door frame to remain, replace door in existing frame. Refer to schedule and specifications for requirements.
- 8.02 Door system, typ. Coordinate with schedules.
- 8.03 Replace (E) glazing with translucent glazing, see detail 15/A-12.6
- 8.04 Glazing at (E) door, see schedule.
- 9.01 (E) Expansion joints, typ.
- 10.01 Signage, see details on A-12.10
- 11.01 (E) Announcement board to be removed and relocated. Patch (E) finish as required.
- 22.01 Stainless steel sink, see details on 1,2,3/A-12.2.1 and plumbing.



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995 BARD STREET
SAN JOSE, CA 95127
FLEXIBLE INSTRUCTIONAL
SPACE

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BERRYESSA UNION SCHOOL DISTRICT
1376 PIEDMONT ROAD
SAN JOSE, CA 95132

No	Revisions/Submissions	Date
	DSA Back-Check	10.17.18

Drawing Title

EXTERIOR ELEVATIONS
FIS

Project No.	Date
1711	August 6, 2018

Regulatory Agency Approval

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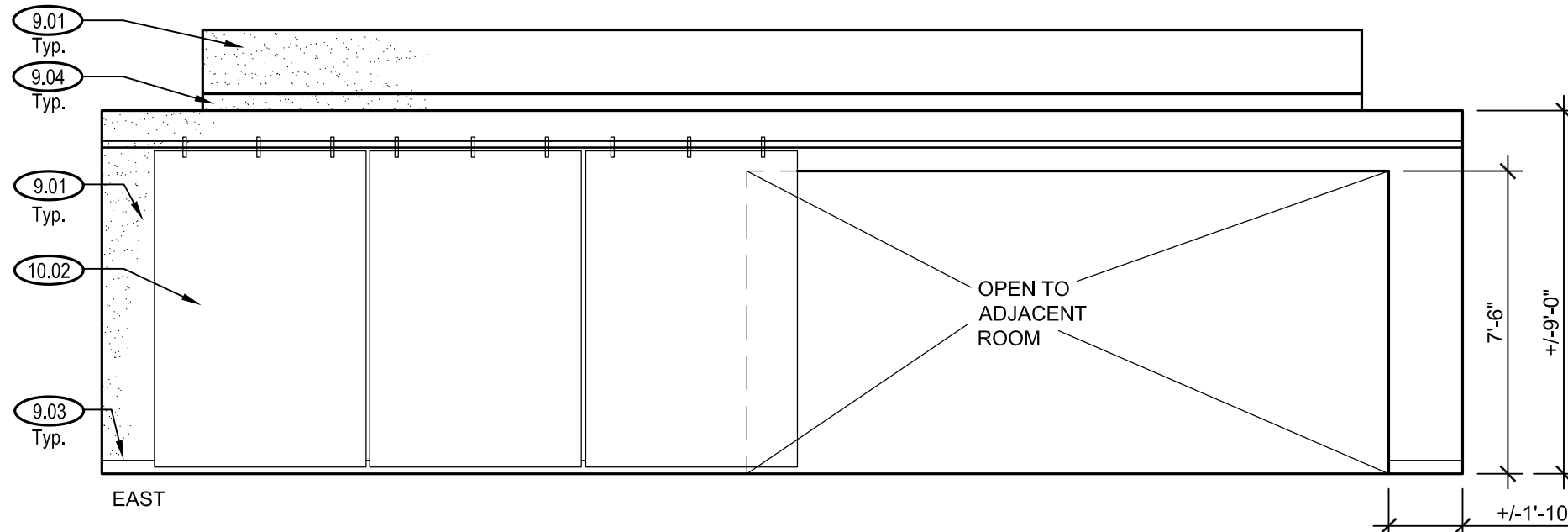
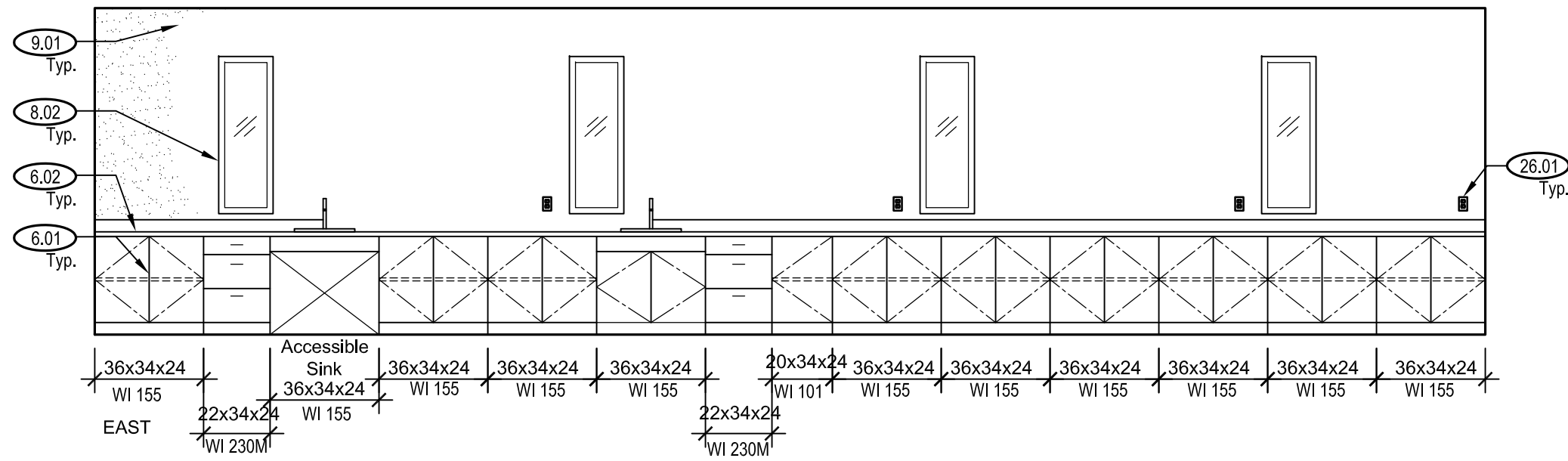
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DATE

File: 43-7

CD	Drawing Number
	A-6.0



5

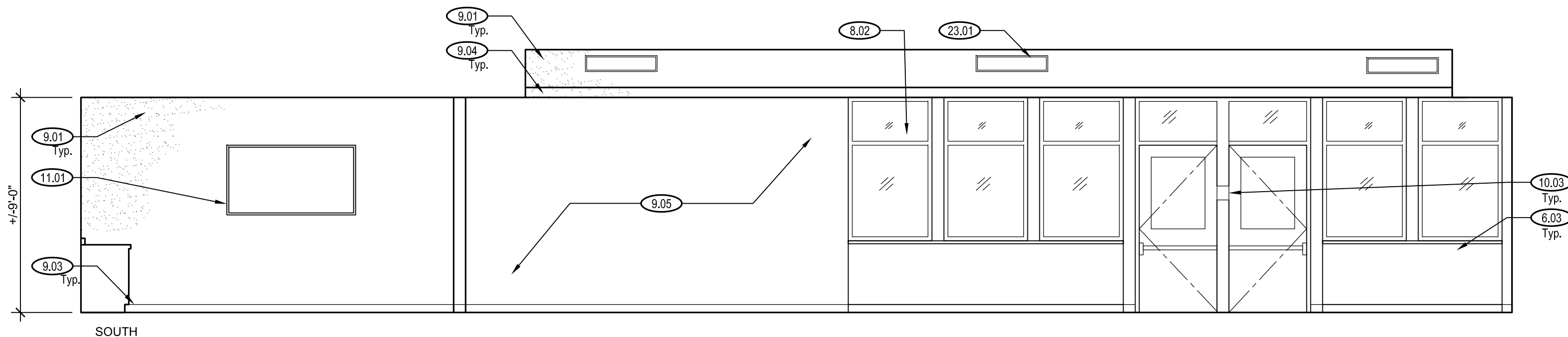
INTERIOR ELEVATION- MAKER SPACE-EAST

1/4"= 1'-0"

4

INTERIOR ELEVATION- CLASSROOM- EAST

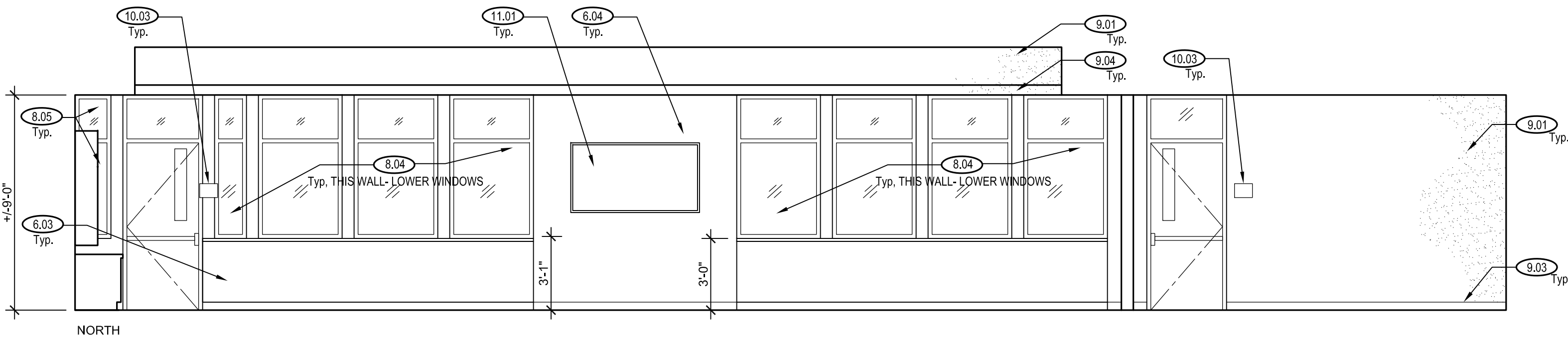
1/4"= 1'-0"



3

INTERIOR ELEVATION-CLASSROOM- SOUTH

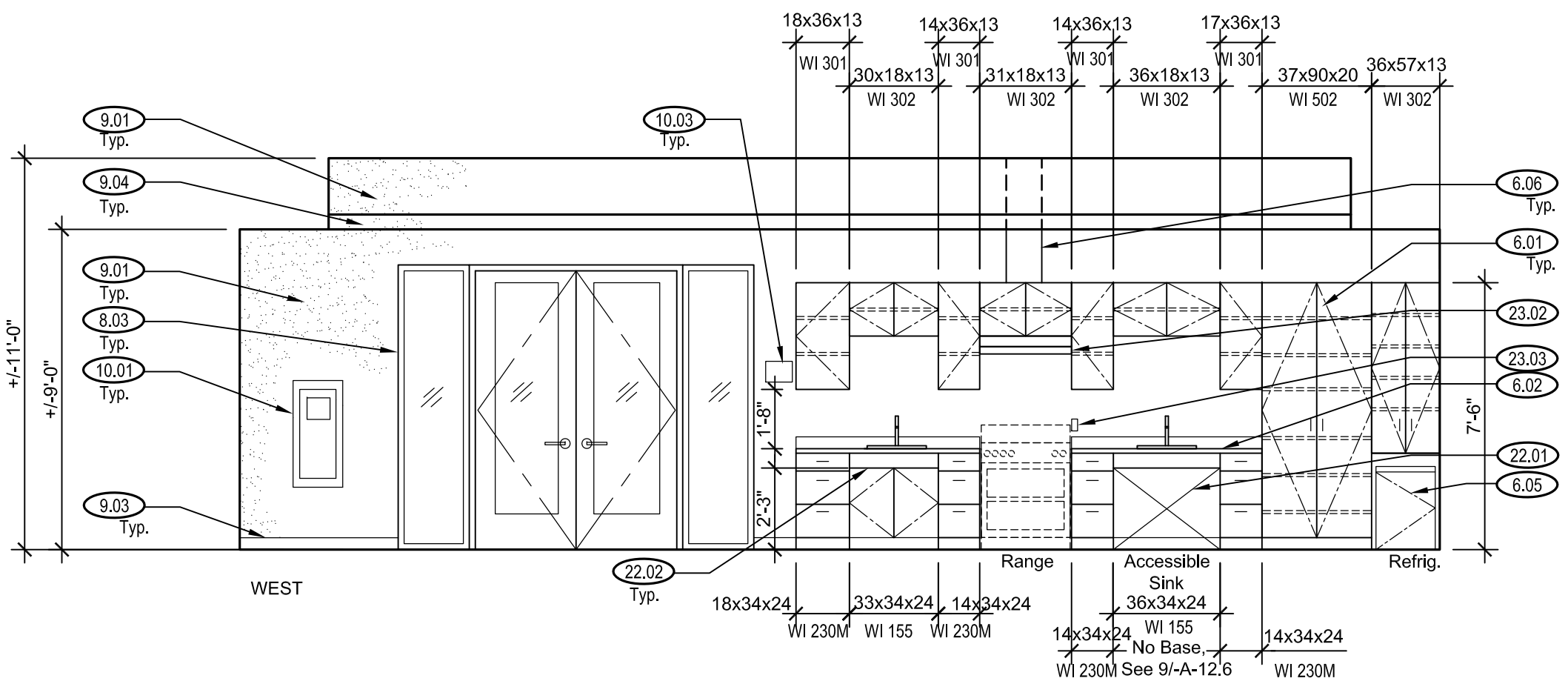
1/4"= 1'-0"



2

INTERIOR ELEVATION- CLASSROOM- NORTH

1/4"= 1'-0"



1

INTERIOR ELEVATION- CLASSROOM- WEST

1/4"= 1'-0"

INTERIOR ELEVATIONS-GENERAL NOTES

1. Provide blocking per detail 6/A-12.6 at all required locations including but not limited to all toilet accessories, toilet partitions, casework, wing walls, projectors, projection screens, etc.

ELEVATION KEYNOTES

- 6.01 Casework, typ. Provide blocking in wall as required for layout. Refer to details on A-12.6 for casework attachment requirements.
- 6.02 P-lam counter tops, typ.
- 6.03 Furred wall, see detail 14/A-12.6.
- 6.04 Wall to be infilled for TV/Conduits/ speakers, see detail 15/A-12.6
- 6.05 Mini refrigerator
- 6.06 P-lam enclosed cover to conceal hood exhaust duct. Coordinate size with mechanical plans. See detail 10/A-12.6
- 6.07 Casework-bookshelves, OFOI, contractor to provide cutting and patching.

- 9.01 (E) Door system, typ.
- 9.02 (E) Window system, typ.
- 9.03 Door system, typ.
- 9.04 Tint (E) glazing, typ.
- 9.05 Replace (E) glazing with translucent glazing, see detail 15/A-12.6

- 9.01 Paint gypsum board finish, typ.
- 9.02 (E) gyp bd soffit to remain. Paint, typ.
- 9.03 Top set base, typ.
- 9.04 (E) Trim, paint, typ.
- 9.05 OFOI wall detail. DO NOT INSTALL ANY ELECTRICAL, MECHANICAL OR OTHER COMPONENTS WITHIN THIS AREA WITHOUT PRIOR APPROVAL BY ARCHITECT. THIS AREA TO REMAIN CLEAR AND CLEAN FOR WALL DECAL. PROVIDE A LEVEL 5 FINISH OF THE GYP BD., 2 COATS ZINZLER 1-2-3 PRIMER

- 10.01 (E) recessed fire extinguisher cabinet and unit to remain, typ.
- 10.02 (3) 5'-3" x 8'-0" double sided white boards with upper and lower tracks, see detail 11/A-12.6. Provide rubber stops between panels and stops at top track.
- 10.03 Room ID sign, typ. Refer to schedule.
- 10.04 Recessed fire extinguisher, typ., see 14, 15/A-12.10

- 11.01 Flat Screen TV and bracket, owner provided and owner installed. Contractor to provide power and data per electrical plans, blocking and misc. framing per plans. Top of TV at +/- 6'-0", Confirm height with District prior to wall framing and installation. Max protrusion of finished installation of screen to be 4".
- 11.02 Appliance, OFCI, typ.

- 12.01 Not used.
- 22.01 Accessible Sink, typ. Provide all components needed for complete installation. Coordinate with plumbing drawings for additional requirements.
- 22.02 Non-accessible sink, typ. Provide all components needed for complete installation. Coordinate with plumbing drawings for additional requirements.
- 22.03 Stainless steel sink, typ. See details on A-12.2.1 and plumbing.

- 23.01 Paint mechanical grilles.
- 23.02 "GE Under the Cabinet Hood" over range/stove (max weight 40 lbs). Run exhaust duct up through ceiling and roof. Do not cut (E) roof joists. Install duct between roof joists, provide 4x blocking with A35 top and bottom each end to support duct and patch roofing to match (E) roofing system. See Mechanical plans for additional information and cutsheets.
- 23.03 Accessible exhaust fan wall switch, see electrical and mechanical plans. If not shown on electrical provide box, switch, wiring and connection to hood.

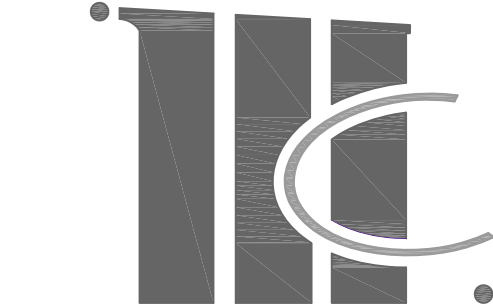
- 26.01 Electrical outlets above counter, typ. Coordinate with electrical.

CALCULATION OF KITCHENETTE STORAGE

AREA OF FIXED STORAGE AT UPPER SHELVES: 2796sq
AREA OF FIXED STORAGE AT LOWER SHELVES: 4140sq
6936sq X 50%= 3468sq REQUIRED IN REACH RANGE
AREA OF STORAGE PROVIDED IN REACH RANGE: 5016sq

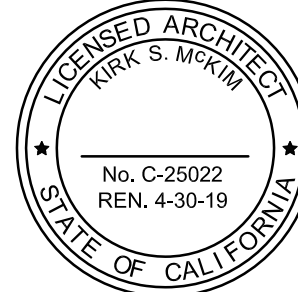
INTERIOR ELEVATIONS LEGEND

GYP BOARD
painted finish
see finish schedule



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Architect Seal



Project Title

TOYON ELEMENTARY SCHOOL
995 BARD STREET
SAN JOSE, CA 95127
FLEXIBLE INSTRUCTIONAL SPACE

Client

BERRYESSA UNION SCHOOL DISTRICT
1376 PIEDMONT ROAD
SAN JOSE, CA 95132

No

Revisions/Submissions

Date

DSA Back-Check

10.17.18

Drawing Title

INTERIOR ELEVATIONS FIS

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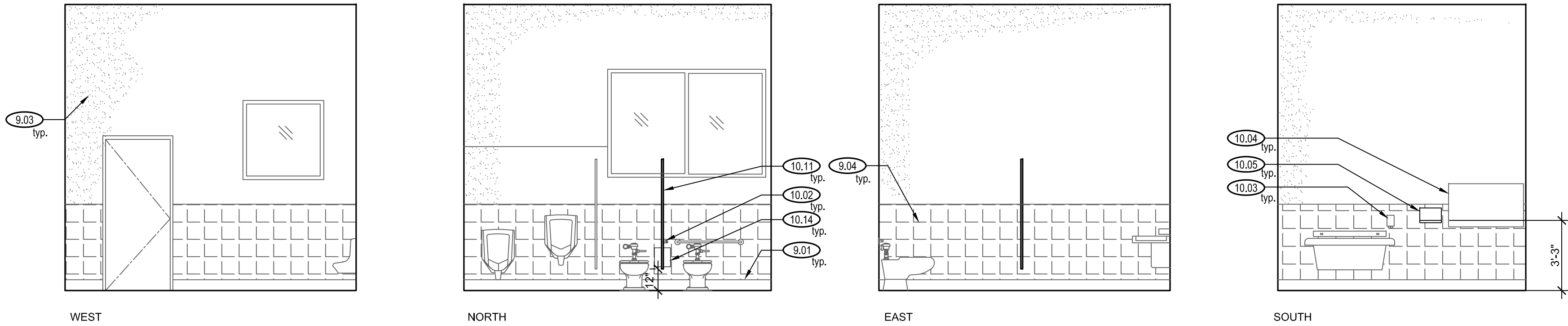
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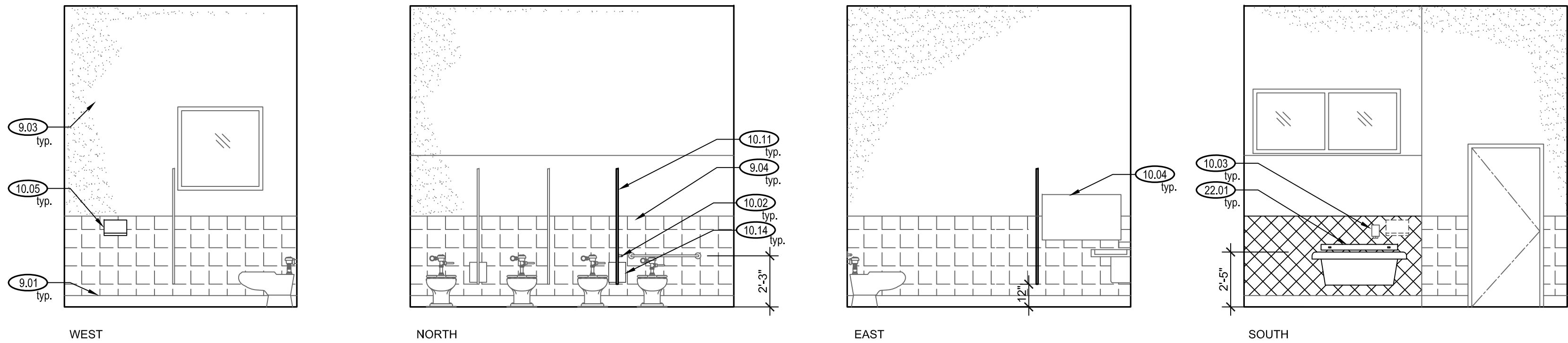
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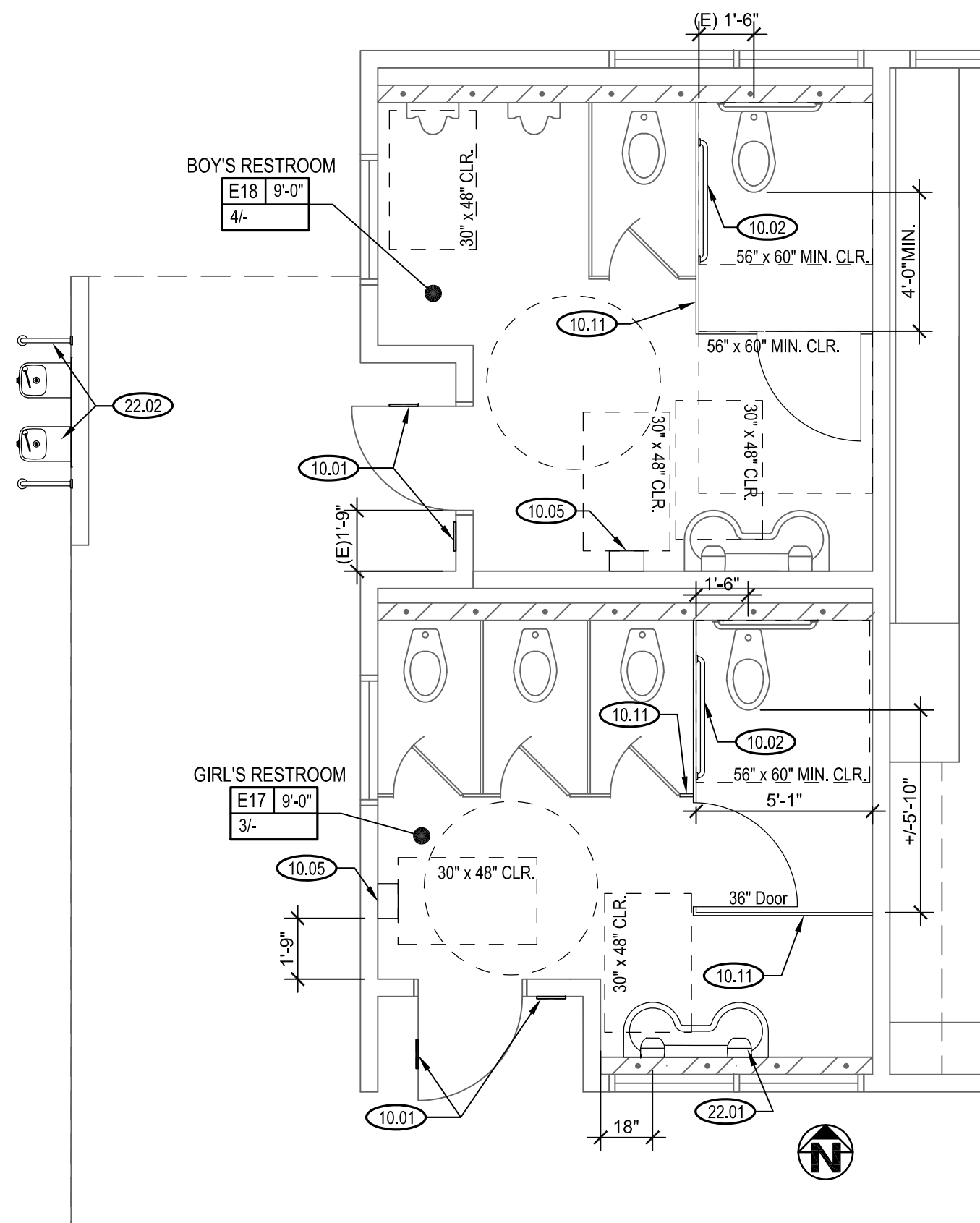
4 INTERIOR ELEVATIONS- BOYS RESTROOM E18

1/4"= 1'-0"



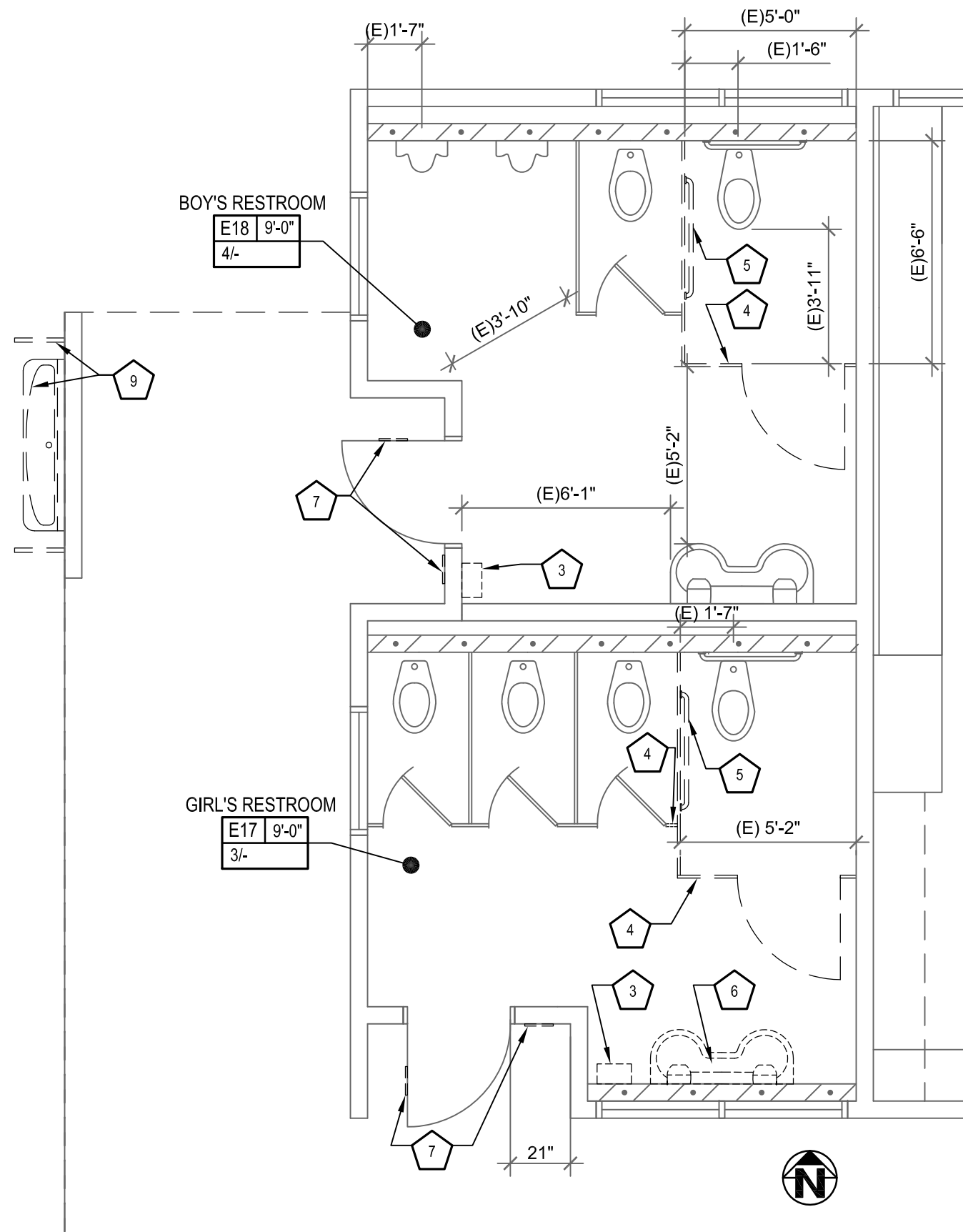
3 INTERIOR ELEVATIONS- GIRLS RESTROOM E17

1/4"= 1'-0"



2 FLOOR PLAN- (E) GIRL'S E17 & (E) BOYS E18

1/4"= 1'-0"



1 DEMO FLOOR PLAN- (E) GIRL'S E17 & (E) BOYS E18

1/4"= 1'-0"

RESTROOM GENERAL NOTES

- Refer to ALL contract documents for complete scope of work including but not limited to electrical, plumbing, mechanical, elevations, site plans, specifications, hazardous materials report, etc. for additional scope of work.
- See 12 and 13 /A-12.10 for accessible fixture and accessory mtg. heights.
- All existing restroom signage shall be removed and replaced per signage details 2/A-12.10.
- Refer to blocking detail on 7/A-12.6 and 10/A-12.10 when (E) grab bars are to be relocated.
- Where demolition of (E) ceramic wall or floor tile occurs patch back with tile that matches (E) size, color, etc...Install cement board behind tile patching over (E) or framing as part of patching. Patch areas where holes appear in ceramic wall tile with colored grout.
- Refer to detail 8.20/A-12.10 for re-anchoring or anchoring toilet partitions to walls.
- Distance between grab bars and top of toilet flush valves shall be 1'-1/2" min. clear. If less, adjust the grab bar height to comply with 12/A-12.10 mounting heights or adjust the flush valve height.
- Cut, patch and paint to match (E) conditions as required to accommodate scope of work. This shall occur at ALL surfaces.

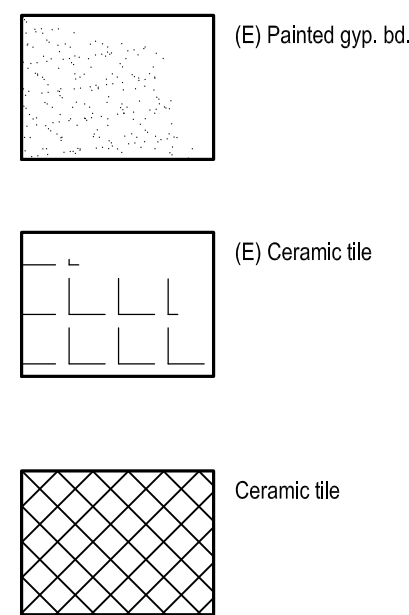
DEMO RESTROOM KEYNOTES

- (E) Wall to be demolished.
- (E) Door to be demolished and retain (E) hardware.
- (E) Hand dryer to be demolished.
- (E) Toilet partition to be demolished, typ.
- (E) Grab bars to be demolished.
- (E) Sink to be demolished and relocated per plans, typ.
- (E) Signage to be demolished, typ.
- (E) Paper towel to be demolished and relocated, typ.
- (E) Drinking fountain & guardrails to be demolished, typ.
- Demolish (E) ceramic tile flooring as required for scope of work.
- Demolish (E) gyp bd on ceiling to (E) framing as required for scope of work.

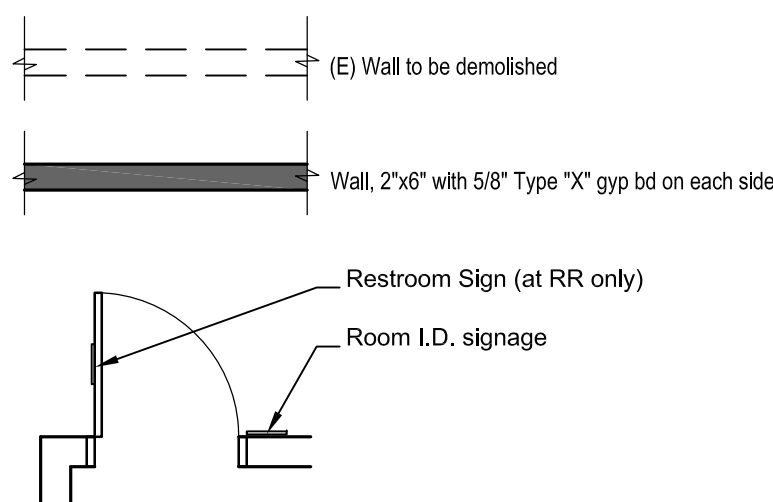
RESTROOM KEYNOTES

- (E) 3' x 7' door to be installed with (E) frame.
- (E) Ceramic tile base, typ. Patch to match (E) where demolition occurs.
- Not used.
- (E) Painted gyp. walls to remain, typ.
- (E) Ceramic wall tile, typ. Patch to match (E) where demolition occurs.
- 2x framed wall, see plan. Install cement board and ceramic tile to match (E) tile size, color, typ.
- Paint gyp walls, color to match (E) wall, typ.
- Install ceramic tile base, color to match (E), typ.
- Ceramic tile flooring, patch to match (E) where demolition occurs.
- Gyp ceiling, 2x6 framing @ 24" OC, paint to match (E) where demolition occurs.
- Room signage, typ. See details on A-12.10
- Grab bars to be reinstalled, typ. See detail 8/-12.10 for anchoring to partitions.
- (E) Soap dispenser, typ.
- (E) Mirror, typ.
- Relocated electric hand dryer, typ. See Electrical plans.
- Toilet paper dispenser, typ.
- Relocated paper towel dispenser, typ.
- (E) Paper towel dispenser to remain, typ.
- Toilet seat cover, typ.
- Sanitary napkin disposal, typ.
- Modify (E) toilet partition to meet accessible clearances, typ. See detail 20/A-12.10 for anchoring to walls.
- (E) Toilet seat cover dispenser to be removed and reinstalled to meet accessible clearances. Patch wall tile to match (E) where demolition occurs.
- (E) Toilet paper dispenser to be demolished.
- (E) Toilet paper dispenser to be removed and reinstalled for toilet partition relocation. Refer to A/12.10 for mounting heights.
- Relocated (E) lavatory, see Plumbing, typ.
- Hi-lo drinking fountain & handrails, typ. See Plumbing & 16,19,20/ A-12.2 for details

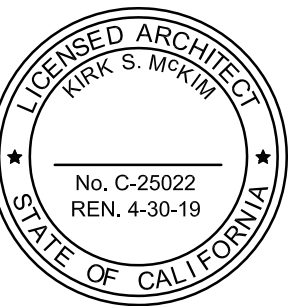
INTERIOR ELEVATIONS LEGEND



FLOOR PLAN LEGEND



Architect Seal



Project Title

TOYON ELEMENTARY SCHOOL
995 BARD STREET
SAN JOSE, CA 95127
FLEXIBLE INSTRUCTIONAL SPACE

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SAN JOSE, CA 95132

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Drawing Title

ENLARGED RESTROOM FLOOR PLAN & INTERIOR ELEVATIONS

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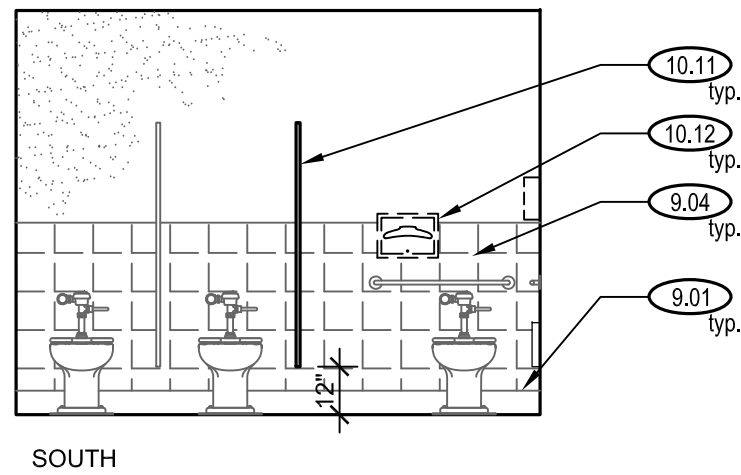
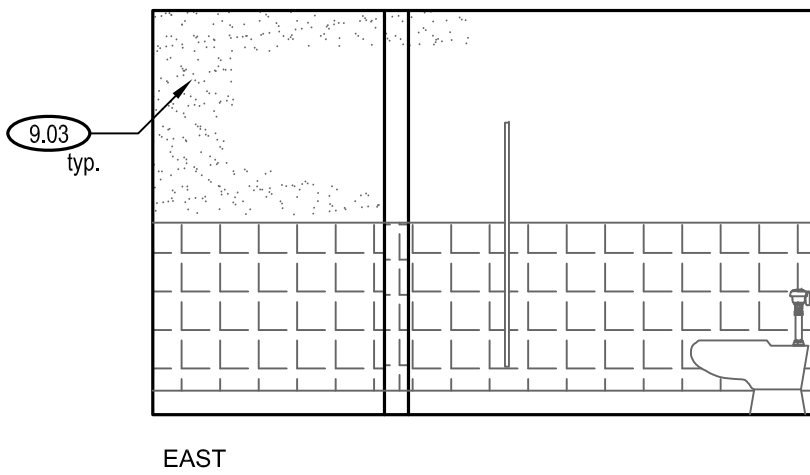
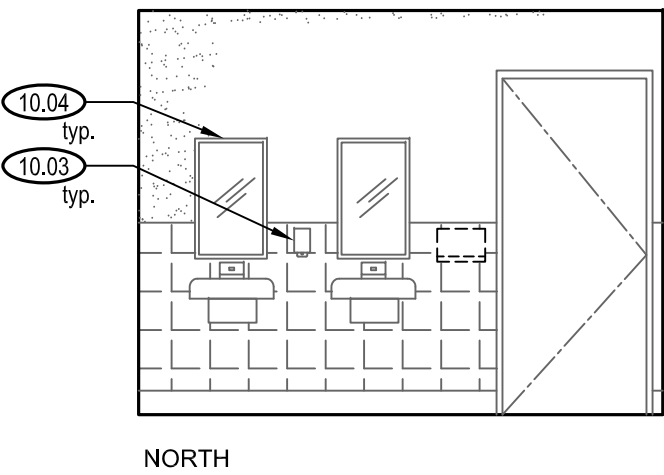
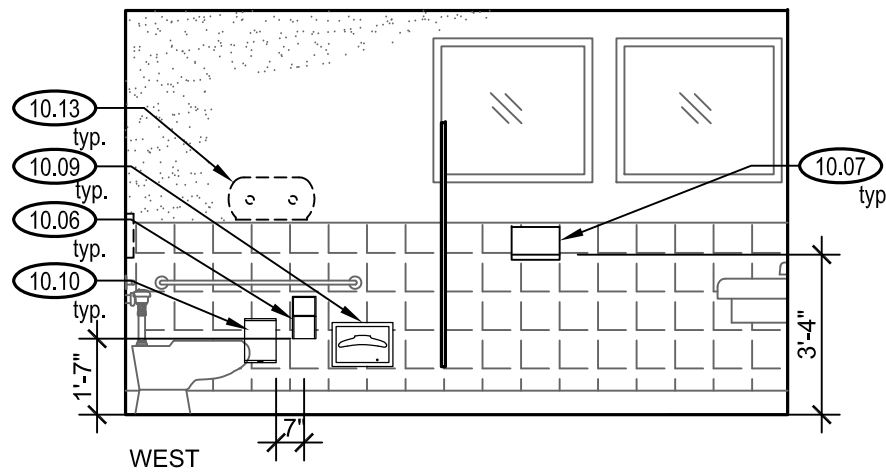
DATE

File: 43-7

Drawing Number

CD

A-9.0



6 ELEVATIONS- (E) WOMENS A14

RESTROOM GENERAL NOTES

- Refer to ALL contract documents for complete scope of work including but not limited to electrical, plumbing, mechanical, elevations, site plans, specifications, hazardous materials report, etc. for additional scope of work.
- See 12 and 13 /A-12.10 for accessible fixture and accessory mtg. heights.
- All existing restroom signage shall be removed and replaced per signage details 2/A-12.10.
- Refer to blocking detail on 7/A-12.6 and 10/A-12.10 when (E) grab bars are to be relocated.
- Where demolition of (E) ceramic wall or floor tile occurs patch back with tile that matches (E) size, color, etc...Install cement board behind tile patching over (E) or framing as part of patching. Patch areas where holes appear in ceramic wall tile with colored grout.
- Refer to detail 8.20/A-12.10 for re-anchoring or anchoring toilet partitions to walls.
- Distance between grab bars and top of toilet flush valves shall be 1-1/2" min. clear. If less, adjust the grab bar height to comply with 12/A-12.10 mounting heights or adjust the flush valve height.
- Cut, patch and paint to match (E) conditions as required to accommodate scope of work. This shall occur at ALL surfaces.

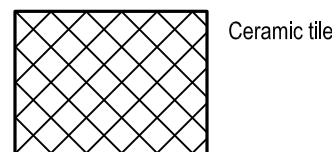
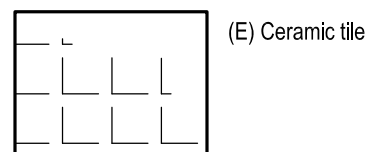
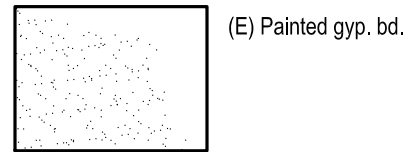
DEMO RESTROOM KEYNOTES

- (E) Wall to be demolished.
- (E) Door to be demolished and retain (E) hardware.
- (E) Hand dryer to be demolished.
- (E) Toilet partition to be demolished, typ.
- (E) Grab bars to be demolished.
- (E) Sink to be demolished and relocated per plans, typ.
- (E) Signage to be demolished, typ.
- (E) Paper towel to be demolished and relocated, typ.
- (E) Drinking fountain & guardrails to be demolished, typ.
- Demolish (E) ceramic tile flooring as required for scope of work.
- Demolish (E) gyp bd on ceiling to (E) framing as required for scope or work.

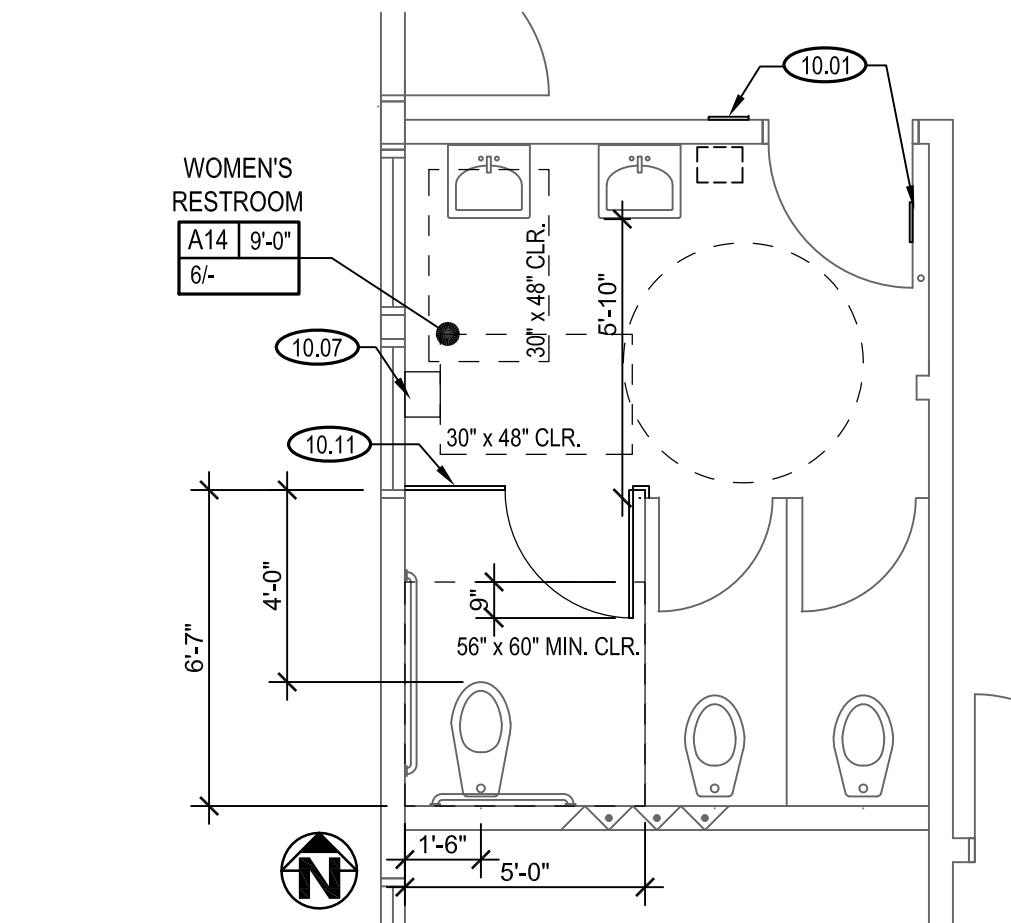
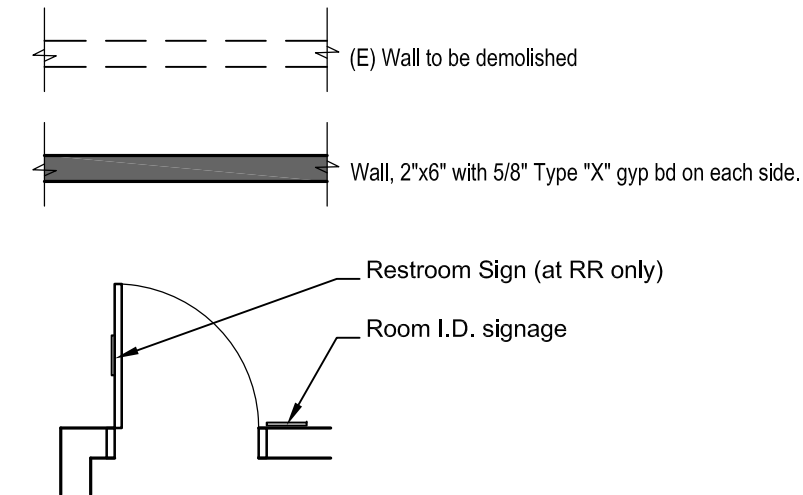
RESTROOM KEYNOTES

- 8.01 (E) 3' x 7' door to be installed with (E) frame.
- 9.01 (E) Ceramic tile base,typ. Patch to match (E) where demolition occurs.
- 9.02 Not used.
- 9.03 (E) Painted Gyp. walls to remain, typ.
- 9.04 (E) Ceramic wall tile,typ. Patch to match (E) where demolition occurs.
- 9.05 2x framed wall, see plan. Install cement board and ceramic tile to match (E) tile size,color, typ.
- 9.06 Paint gyp walls, color to match (E) wall, typ.
- 9.07 Install ceramic tile base, color to match (E), typ.
- 9.08 Ceramic tile flooring, patch to match (E) where demolition occurs.
- 9.09 Gyp ceiling, 2x6 framing @ 24" OC, paint to match (E) where demolition occurs.
- 10.01 Room signage, typ. See details on A-12.10
- 10.02 Grab bars to be reinstalled, typ. See detail 8/-12.10 for anchoring to partitions.
- 10.03 (E) Soap dispenser, typ.
- 10.04 (E) Mirror, typ.
- 10.05 Relocated electric hand dryer, typ. See Electrical plans.
- 10.06 Toilet paper dispenser, typ.
- 10.07 Relocated paper towel dispenser, typ.
- 10.08 (E) Paper towel dispenser to remain, typ.
- 10.09 Toilet seat cover, typ.
- 10.10 Sanitary napkin disposal, typ.
- 10.11 Modify (E) toilet partition to meet accessible clearances, typ. See detail 20/A-12.10 for anchoring to walls.
- 10.12 (E) Toilet seat cover dispenser to be removed and reinstalled to meet accessible clearances. Patch wall tile to match (E) where demolition occurs.
- 10.13 (E) Toilet paper dispenser to be demolished.
- 10.14 (E) Toilet paper dispenser to be removed and reinstalled for toilet partition relocation. Refer to A/12.10 for mounting heights.
- 22.01 Relocated (E) lavatory, see Plumbing, typ.
- 22.02 Hi-lo drinking fountain & handrails, typ. See Plumbing & 16,19,20/ A-12.2 for details

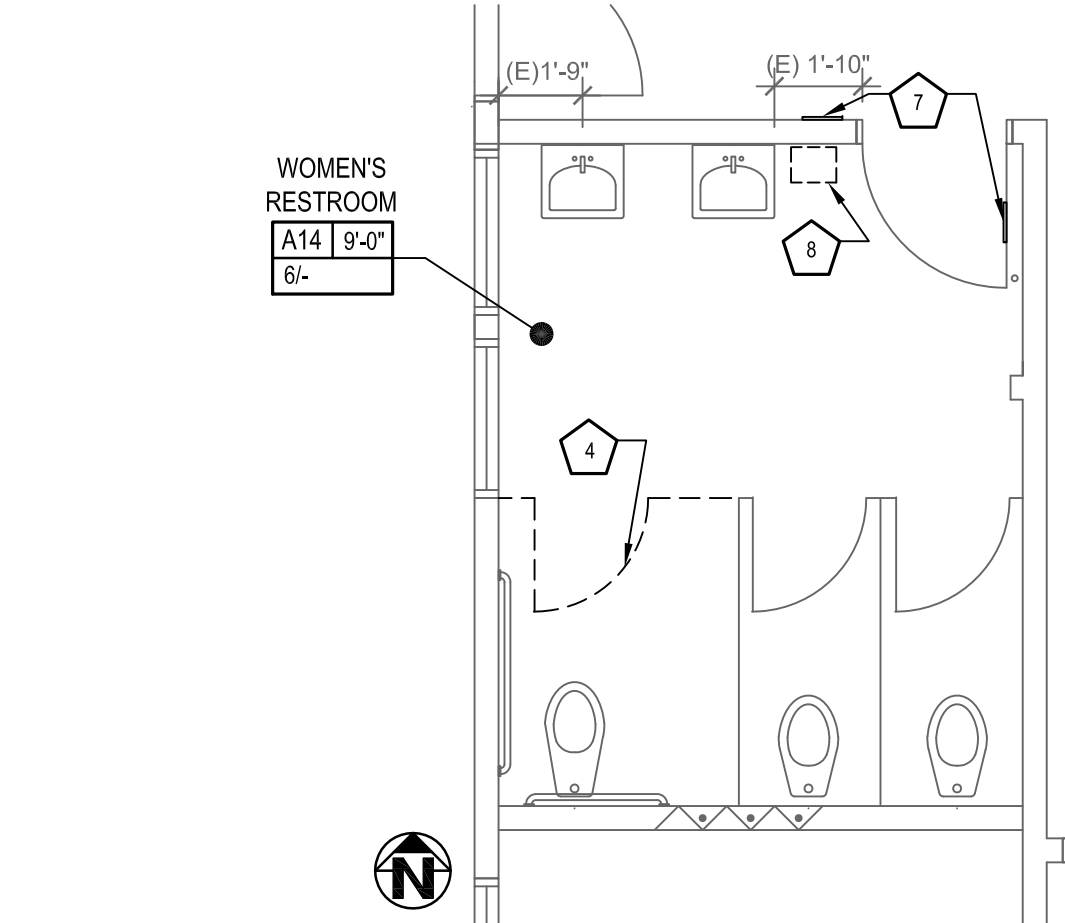
INTERIOR ELEVATIONS LEGEND



FLOOR PLAN LEGEND

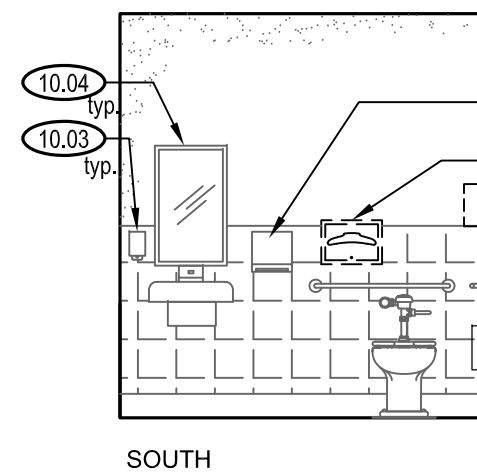
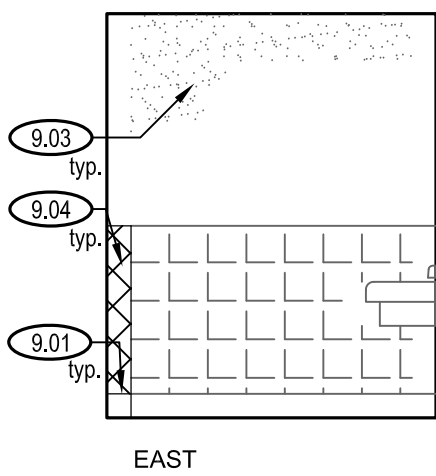
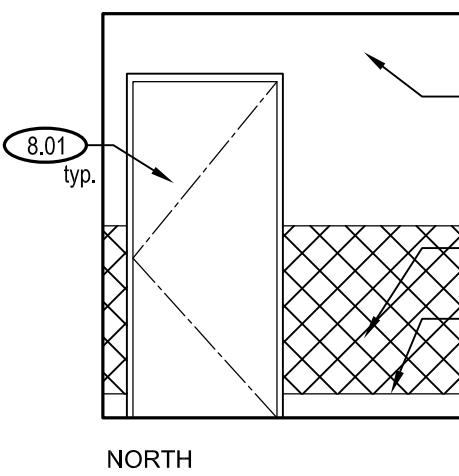
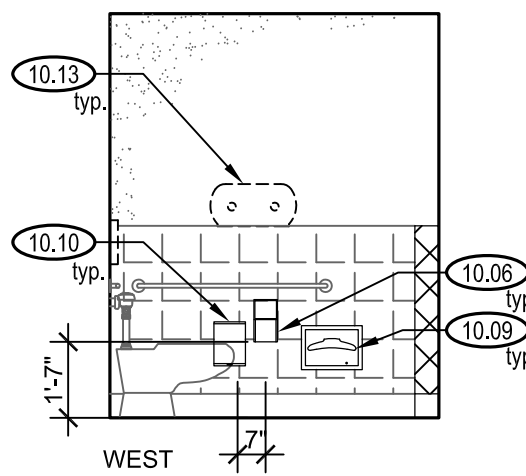


5 FLOOR PLAN- (E) WOMENS A14

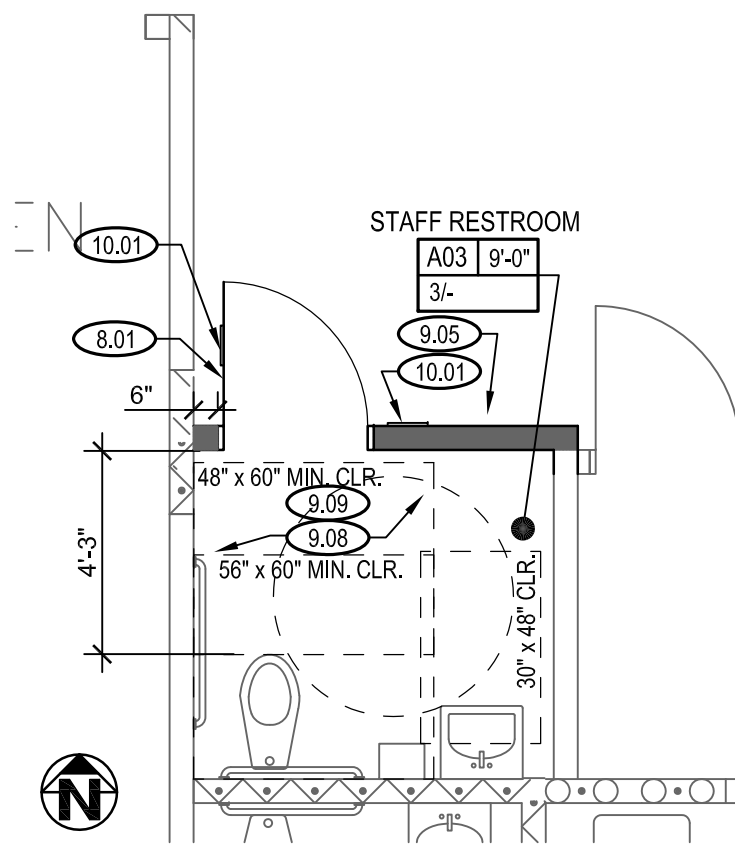


4 DEMO FLOOR PLAN (E) WOMENS A14

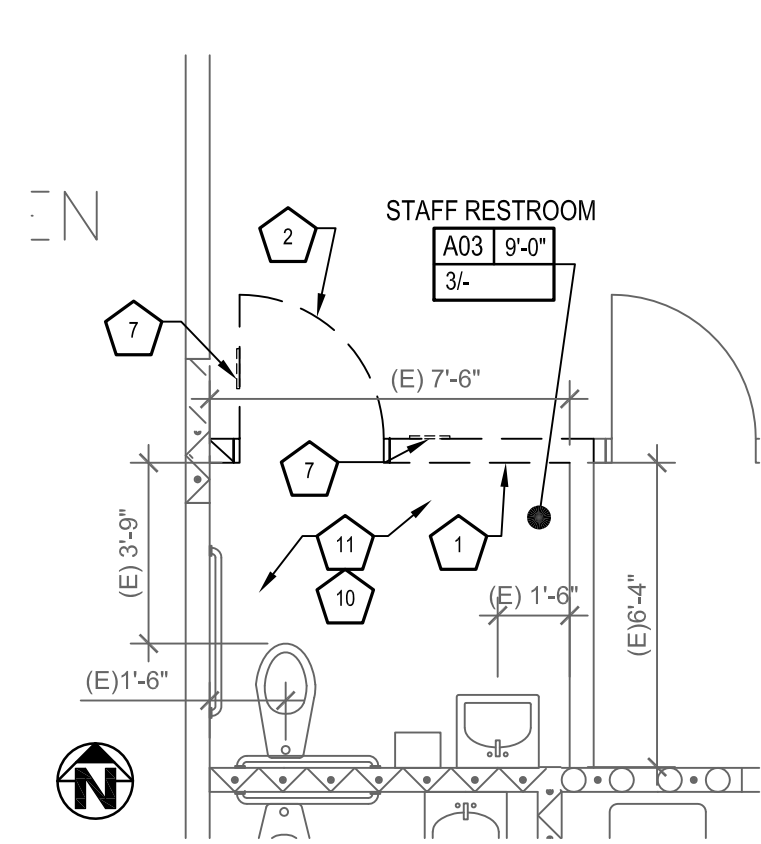
PAINT ALL WALLS AND CEILING IN STAFF RR A03



3 ELEVATIONS- (E) STAFF A03



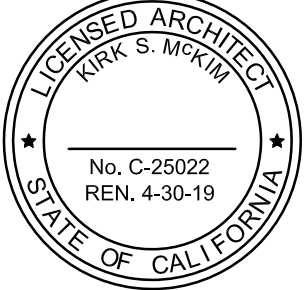
2 FLOOR PLAN- (E) STAFF A03



1 DEMO FLOOR PLAN- (E) STAFF A03



Architect Seal



Project Title

TOYON ELEMENTARY SCHOOL
995 BARD STREET
SAN JOSE, CA 95127
FLEXIBLE INSTRUCTIONAL SPACE

Client

BERRYESSA UNION SCHOOL DISTRICT
1376 PIEDMONT ROAD
SAN JOSE, CA 95132

No	Revisions/Submissions	Date
	DSA Back-Check	10.17.18

Drawing Title

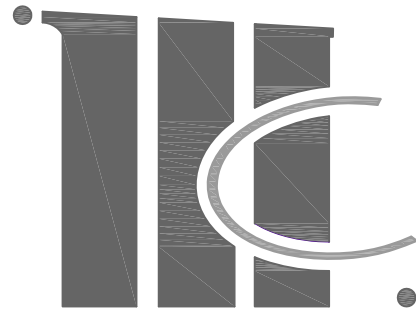
ENLARGED RESTROOM FLOOR PLAN & INTERIOR ELEVATIONS

Project No.	Date
1711	August 6, 2018

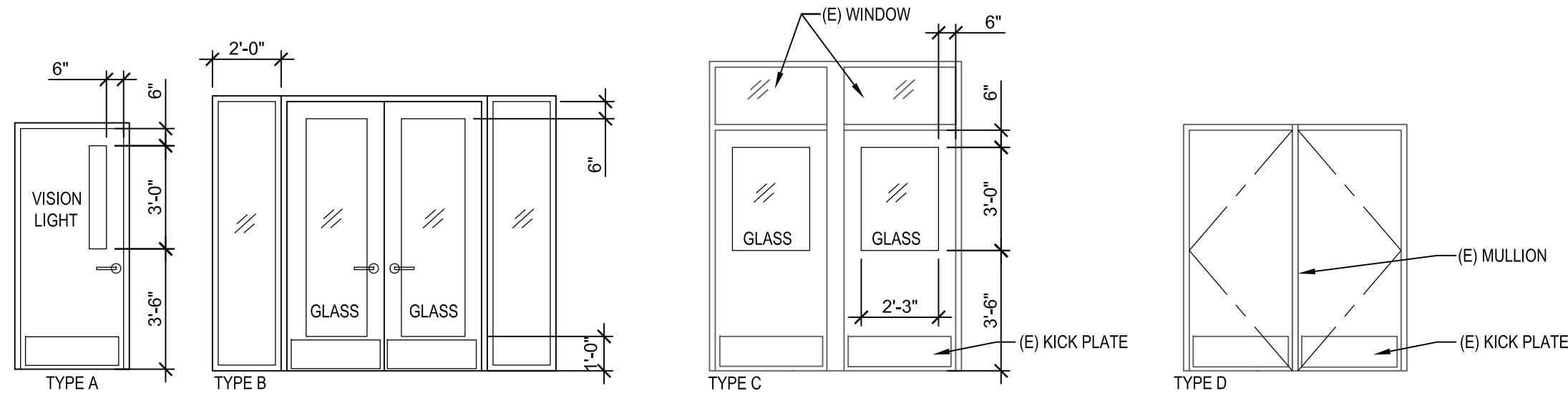
Regulatory Agency Approval
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117713
ACS FLS SSS
DATE _____

File: 43-7

Drawing Number
CD A-9.1



4595 Cherry Avenue, First Floor, San Jose, CA 95118
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DOOR NO.	ROOM NAME	DOOR SIZE (W X H)	TYPE	CONSTR.	FRAME	FINISH	RATING	GLAZING	H/DWR GRP			DETAIL REF. SHEET A-12.8			ROOM SIGN	SIGN NAME	REMARKS (see below)	EXIT DEVICE	
									HEAD	JAMB	SILL	HEAD	JAMB	SILL					
H01.1	LIBRARY	3070	A	MTL	MTL	P	-	T/SG	1	10	10	9			ID & E	LIBRARY		PANIC	
H02.1	CLASSROOM	3070 (E frame)	A	MTL	MTL	P	-	T/SG	1	10	10	9			ID & E	FLEXIBLE INSTRUCTION SPACE	1	PANIC	
H02.2	CLASSROOM	6080 (2)	B	WD	MTL	P	-	T/SG	4	15	15	4			ID	LIBRARY		PANIC	
(E)H02.3	CLASSROOM	(E) 3670	C	(E) MTL	(E) MTL	P	-	T/SG	3	-	-	-			ID & E	FLEXIBLE INSTRUCTION SPACE PATIO	2	PANIC	
(E) H02.4	CLASSROOM	(E) 3670	C	(E) MTL	(E) MTL	P	-	T/SG	3	-	-	-			ID & E		2	PANIC	
H03.1	MAKER SPACE	3070	A	MTL	MTL	P	-	T/SG	2	10	10	9			ID & E	MAKER SPACE	1	PANIC	
(E) H04.1	PATIO	(E) 3070	D	(E) MTL	(E) MTL	P	-	-	3	-	-	-			E	-		PANIC	
(E) H04.2	PATIO	(E) 3070	D	(E) MTL	(E) MTL	P	-	-	3	-	-	-			E	-		PANIC	

* See Door Hardware Specification for Hardware Group Definitions

LEGEND

AL = ALUMINUM
DG = DUAL GLAZED
E = EXIT
FR = FIRE RATED
HM = HOLLOW METAL
ID = ROOM IDENTIFICATION SIGN
MTL = METAL
MP = METAL PANEL
P = FIELD PAINTED
SFS = STOREFRONT SYSTEM
SG = SAFETY GLAZING
T = TEMPERED GLASS
WD = SOLID CORE WOOD

SIZE CALLOUT: 3070 = 3'-0" WIDE X 7'-0" HIGH DOOR

REMARKS:

1. (E) Frame to remain, replace door in existing frame.
2. (E) Door to remain, cut door as required for installation of half-file kit.

DOOR GENERAL NOTES:

1. All doors to have a clear and level landing on both sides and a 1/2" max difference between the floor/landing and the top of the threshold. Level change greater than 1/2" to be beveled 1:2 max.
2. Latching or locking doors in a path-of-travel are operated with a single effort by level type hardware, panic bars, push-pull activating bars or other hardware designed to provide passage without requiring the ability to grasp the opening hardware.
3. Hand-activated door opening hardware is to be centered at a minimum of 34" but no more than 44" above the floor. Panic hardware shall be installed below door windows or vision files.
4. Maximum effort to operate doors shall not exceed 5 pounds, with such pull or push effort being applied at right angles to hinged doors except at fire-rated doorways where force required to open be increased to 15 pounds, maximum.
5. The lower 10" of all doors shall be smooth and uninterrupted, to allow the door to be opened by a wheelchair footrest without creating a trap or hazardous condition (narrow frame doors may use a 10" high smooth panel on the push side of the door).
6. Glazing in doors to be tempered & dual pane and shall comply with the Title 24 energy calculations.
7. Exit doors shall be operable from the inside without the use of a key or any special knowledge or effort.
8. Every required exit doorway serving an occupant load of ten or more shall be of a size to permit the installation of a door not less than 3 feet in nominal width and not less than 6 feet 8 inches in nominal height.
9. Doors and gates to be a minimum of 36" to provide a clear width of 32" when open.
10. Where noted on door schedule provide room identification signs and exit signs at each door location. Refer to sign details on A-12.10.
11. Refer to door frame details on sheet A-12.8 for frame profile and attachment.
12. See detail 4/A-12.2.1 for door stop installation

2 DOOR SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS								MATERIAL	FINISH	NOTES		
				NORTH		EAST		SOUTH		WEST						
				MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH					
H01	LIBRARY	C	TS	G	P	G	P	G	P	G	P	G	GU	P	Replace all (e) glu-up ceiling tiles	
H02	CLASSROOM	CONC	TS	G	OSB	G	P	G	P	G	OSB	P	G	LI	P	Paint (e) t-bar grid and acoustical tiles, replace all glu-up tiles
H03	MAKER SPACE	CONC	TS	G	P	G	P	G	P	G	P	P	G	LI	P	Replace (e) t-bar grid and acoustical tiles
H04	PATIO	CONC	NA	STUCCO	P	STUCCO	P	STUCCO	P	STUCCO	P	NA	NA	NA		

FINISHES LEGEND

C CARPET TILE, Color:
CONC CONCRETE SLAB
CB CEMENT BACKER BOARD
CT CERAMIC TILE
(E) EXISTING
ER EPOXY RESIN w/integral 6" base
FRP FIBERGLASS REINFORCED PLASTIC
GYP GYPSUM BOARD - TYPE 'X', typ.
GU GLUE-UP CEILING TILES
ICB INTEGRAL COVERED BASE - 6" TYP.
LI LAY-IN CEILING TILES
P PAINT
PWC PROTECTIVE WALL COVERING
TB VINYL-WRAPPED TACKBOARD
T-BAR T-BAR
TS TOP SET RUBBER BASE, Color:
WD WOOD DECK

Note: Finishes have a flame spread of <25 and smoke density of <450 with the exception of FRP which has a flame spread of <75

NOTE: Where schedule states "LI or GU", contractor is to replace that percentage of ceiling tiles in the room. Coordinate with Architect in field for exact tile locations, typ.

GENERAL FINISH NOTES:

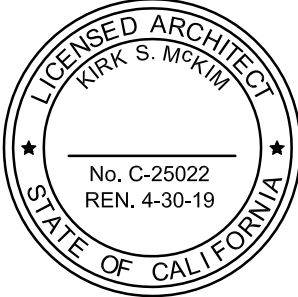
- A. For multiple floor finishes in a room, refer to floor plan and specifications- PROVIDE MANUF, TRANSITION STRIPS, TYP.
B. For multiple wall finishes in a room, refer to interior elevations and specifications.
C. For multiple ceiling finishes in a room, refer to reflected ceiling plan for location of each finish.
D. Paint all exposed surfaces, including all gypsum board, soffits, existing ceiling tiles to remain and trim.
E. Paint all doors and frames inside & outside. Remove all signage and mask hardware prior to painting. Reinstall as required upon completion.
F. Paint all window trim, typ, unless factory finished - in which case verify prior to providing bid or include to be painted.
G. Paint all exposed conduits and mechanical devices to match adjacent finish.
H. (E) exterior surfaces and (E) interior finishes to be patched and painted to match adjacent at all locations of work.
I. Flooring finishes are to extend into and fill all "open-base" cabinets, typ.
J. Cut, patch and paint to match (E) adjacent surfaces as necessary, typ.
K. RE-TEXTURE ALL INTERIOR EXPOSED GYP. BD. PRIOR TO PAINTING/FINISHING. TEXTURE TO INCLUDE SKIMMING SMOOTH AND THEN SKIP-TROWEL EXCEPT BEHIND IMAGE WALL WHICH IS TO BE A LEVEL 5 FINISH WITH 2 COATS OF ZINSLER 1-2-3-PRIMER.
L. EXISTING T-BAR CEILING GRID AND ACOUSTICAL TILES IN ROOM H02 (CLASSROOM) ARE TO BE PAINTED. REMOVE TILES TO PAINT AND REINSTALL, TYP.

X/Y = Two materials or finishes ('X' & 'Y') are to be provided on the same floor, wall, or ceiling. See elevations or plans for the location of each.

(E)X = Existing finish or material to remain

1 FINISH SCHEDULE

Architect Seal



Project Title

TOYON ELEMENTARY
SCHOOL
995 BARD STREET
SAN JOSE, CA 95127
FLEXIBLE INSTRUCTIONAL
SPACE

Client

BERRYESSA UNION SCHOOL DISTRICT
1376 PIEDMONT ROAD
SAN JOSE, CA 95132

No	Revisions/Submissions	Date
	DSA Back-Check	10.17.18

Drawing Title

SCHEDULES

Project No. 1711 Date August 6, 2018

Regulatory Agency Approval

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPL 01-117713
ACS FLS SSS

DATE

File: 43-7

Drawing Number

CD A-10.0

20	ELEVATION AT HI-LO COMBO DRINKING FOUNTAIN 1" = 1'-0"	16	ACCESSIBLE DRINKING FOUNTAIN 1" = 1'-0"	12	GUARDRAIL / HANDRAIL SLEEVE 3" = 1'-0"	8	CONCRETE WALK CONTROL JOINT 1" = 1'-0"
19	GUARDRAILS AT HI-LO COMBO DRINKING FOUNTAIN 1" = 1'-0"	15	CONCRETE PATCH 1 1/2" = 1'-0"	11	CONCRETE WALK AT (E) CONCRETE 1" = 1'-0"	7	CONCRETE WALK CONSTRUCTION JOINT 1" = 1'-0"
18	TRENCH DETAIL 3/4" = 1'-0"	14	CONCRETE PATCH 1 1/2" = 1'-0"	10	CONCRETE WALK EDGE AT A.C. PAVING 1" = 1'-0"	6	CONCRETE WALK - TYPICAL LAYOUT 1/2" = 1'-0"
17	TRENCH PLANE OF INFLUENCE 1" = 1'-0"	13	WHEEL STOP 3" = 1'-0"	9	A.C. PAVING PATCH 1 1/2" = 1'-0"	5	ACCESSIBILITY PARKING SPACE SYMBOL N.T.S.
						1 DOUBLE PARKING STALL 1/8" = 1'-0"	

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Project Title

TOYON ELEMENTARY SCHOOL

995 BARD STREET
SAN JOSE, CA 95127

FLEXIBLE INSTRUCTIONAL SPACE

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BERRYESSA UNION SCHOOL DISTRICT
1376 PIEDMONT ROAD
SAN JOSE, CA 95132

No	Revisions/Submissions	Date
	DSA Back-Check	10.17.18

Drawing Title

SITE & PARKING DETAILS

Project No. 1711	Date August 6, 2018
Regulatory Agency Approval	
IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT	
APPL 01-117713 ACS FLS SSS	
DATE _____	
File: 43-7	

CD	Drawing Number
	A-12.2

[illegible]

Project Title	<p>TOYON ELEMENTARY SCHOOL</p> <p>995 BARD STREET SAN JOSE, CA 95127</p> <p>FLEXIBLE INSTRUCTIONAL SPACE</p>
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No	Revisions/Submissions	Date
	DSA Back-Check	10.17.18

Drawing Title

Project No. 1711	Date August 6, 2018
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Regulatory Agency Approval

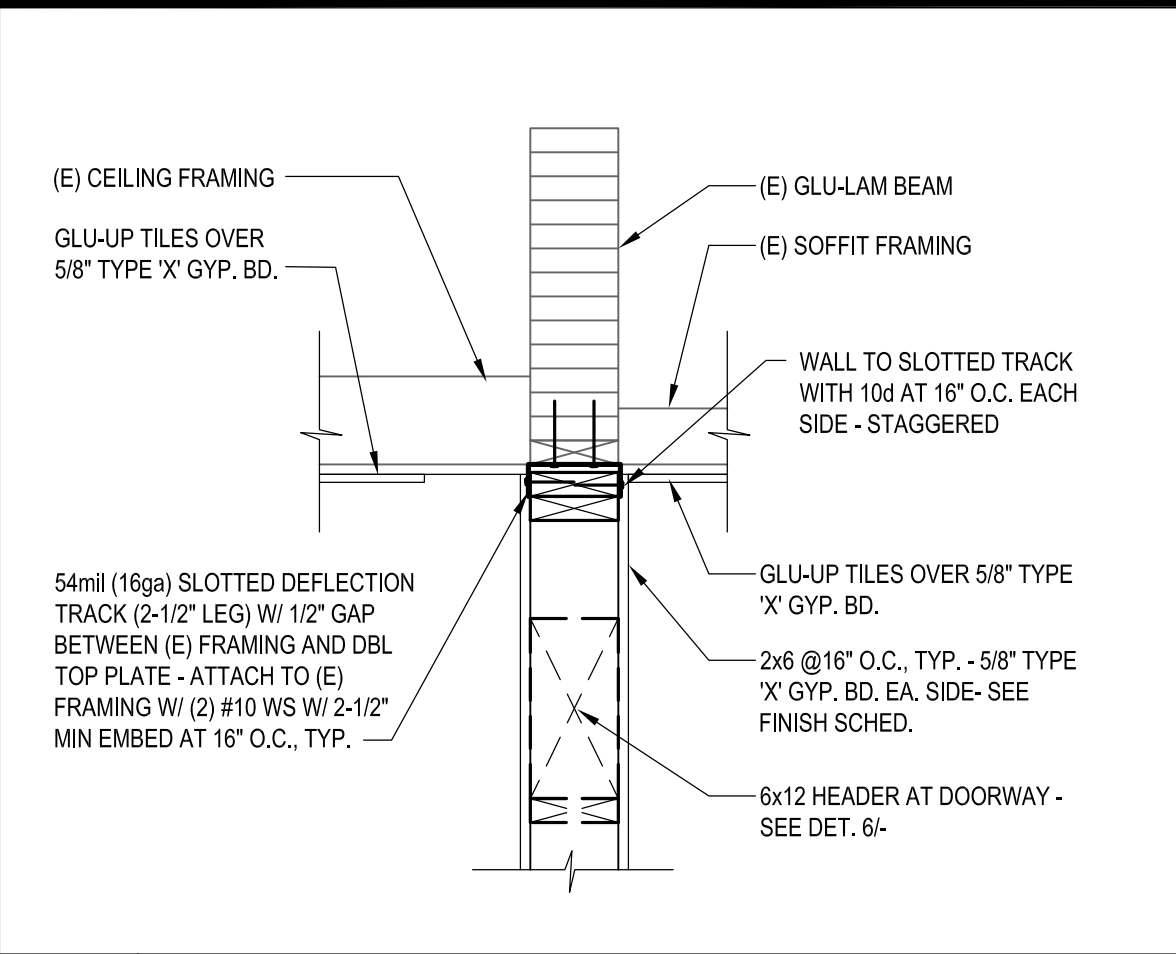
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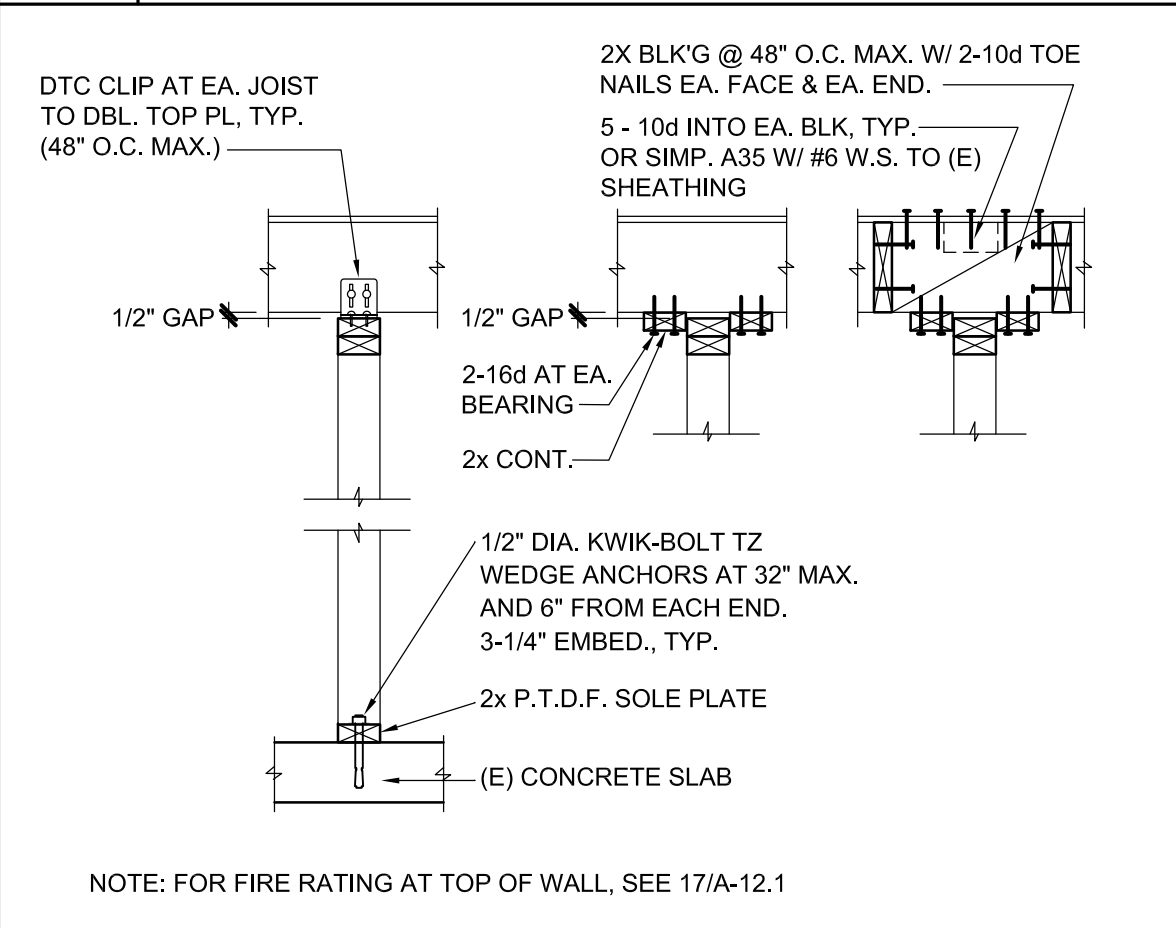
DATE_____

File: 43-7

CD	Drawing Number A-12.2.1
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20 WALL HEAD SLOTTED TRACK DETAIL
1" = 1'-0"



19 TYPICAL CONNECTION OF NON-LOAD BEARING PARTITIONS
3/4" = 1'-0"

EXPANSION ANCHORS (HILTI): TESTING CRITERIA

A. EXPANSION BOLTS SHALL BE HILTI KWIK-BOLT TZ-CARBON STEEL ANCHOR (ESR-1917) OR EQUAL PRODUCT. ALTERNATE PRODUCTS MUST BE SUBMITTED TO E.O.R./A.O.R. FOR SUBSTITUTION PRIOR TO INSTALLATION PER SPECIFICATIONS.

NOTE: PROVIDE HILTI KWIK-BOLT 3 ANCHOR (ICC ESR-1385) AT MASONRY APPLICATIONS

B. INSTALLATION: INSTALL THE EXPANSION ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIC ANCHOR.

C. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1704 OF THE CBC. (1704A OF THE CBC FOR DSA PROJECTS)

D. WHEN EXPANSION ANCHORS ARE USED FOR SILL PLATE BOLTING AWAY FROM THE EDGE, 10% OF THE ANCHORS SHALL BE TENSION TESTED. FOR ALL OTHER STRUCTURAL APPLICATIONS, ALL SUCH EXPANSION ANCHOR SHALL BE TENSION TESTED. WHEN EXPANSION ANCHORS ARE USED FOR NON-STRUCTURAL APPLICATIONS, 50% OF ANCHORS SHALL BE TENSION TESTED. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE NOT PREVIOUSLY TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS. (PER IR-19.1 FOR DSA PROJECTS ONLY)

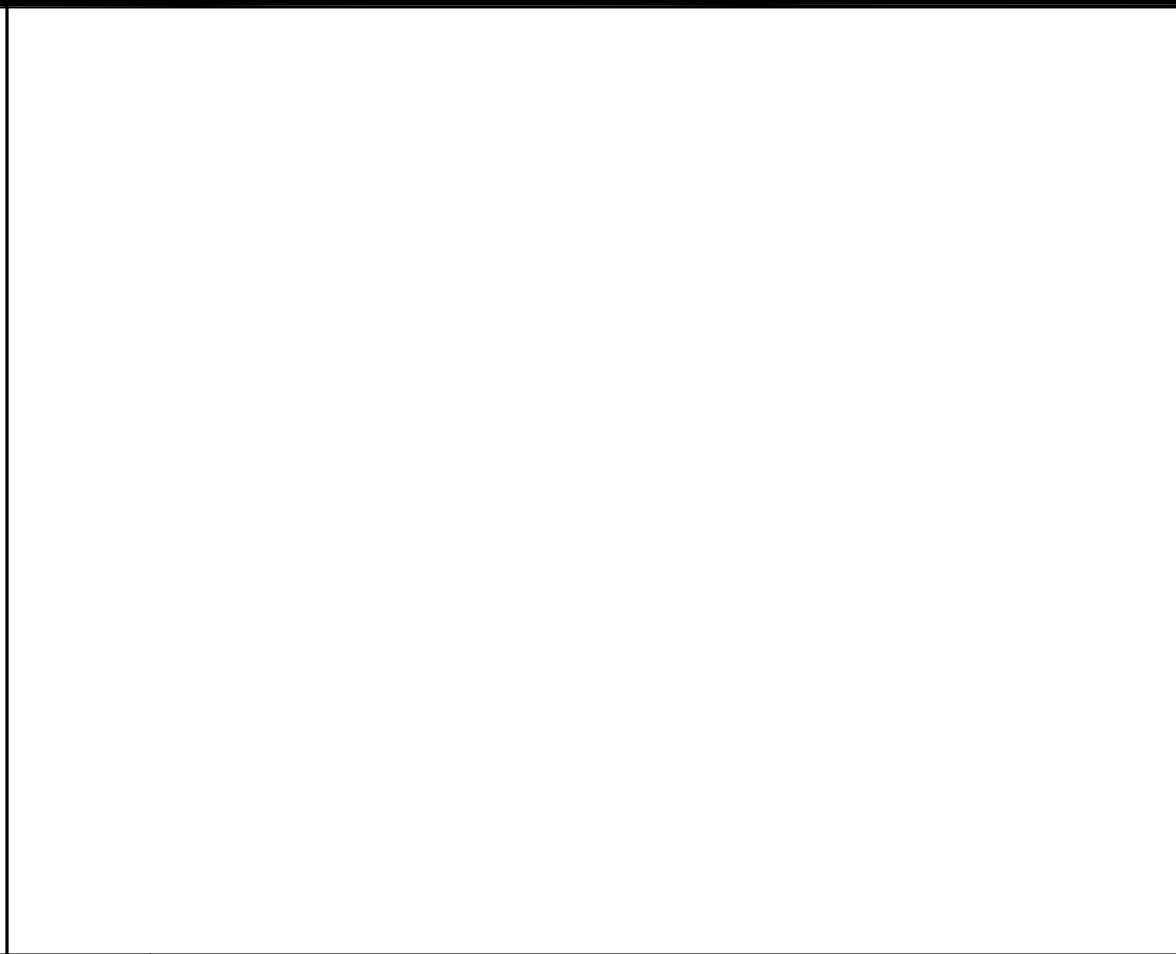
E. CONCRETE AT TIME OF INSTALLATION SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AND SHALL HAVE A MINIMUM AGE OF 21 DAYS.

MIN. f'c = 2,500 PSI (NORMAL WEIGHT CONCRETE) VERIFY MINIMUM EXISTING CONCRETE STRENGTH IN FIELD. *						
DIA.	MIN. EMBED	MIN. HOLE DEPTH	MIN. EDGE DISTANCE	MIN. SPACING	TENSION TEST VALUE	**
3/8"	2 1/4"	2 5/8"	4"	6"	1,509#	*
1/2"	3 5/8"	4"	6"	9 3/4"	3,267#	
5/8"	4 1/2"	4 3/4"	6 3/4"	12"	4,656#	
3/4"	5 3/8"	5 3/4"	9"	13 1/4"	5,850#	

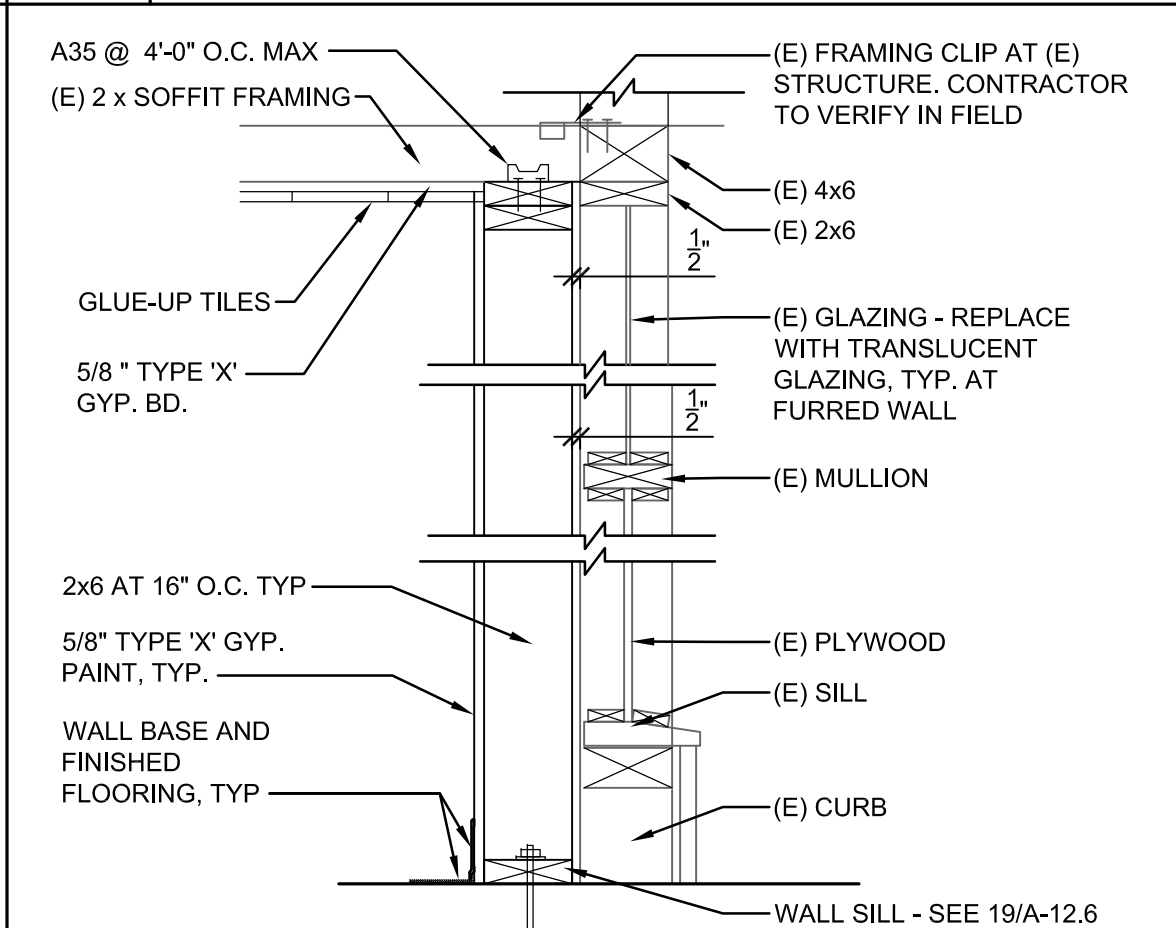
* FOR SINGLE ANCHORS WITH NO EDGE DISTANCE OR SPACING REDUCTION. FOR OTHER CASES, REDUCTION OF VALUES CALCULATED PER ACI 318 IS REQUIRED.

** TENSION TEST VALUES ONLY AND CORRESPOND WITH 1.5x CRACKED CONCRETE SEISMIC TENSION LOADS.

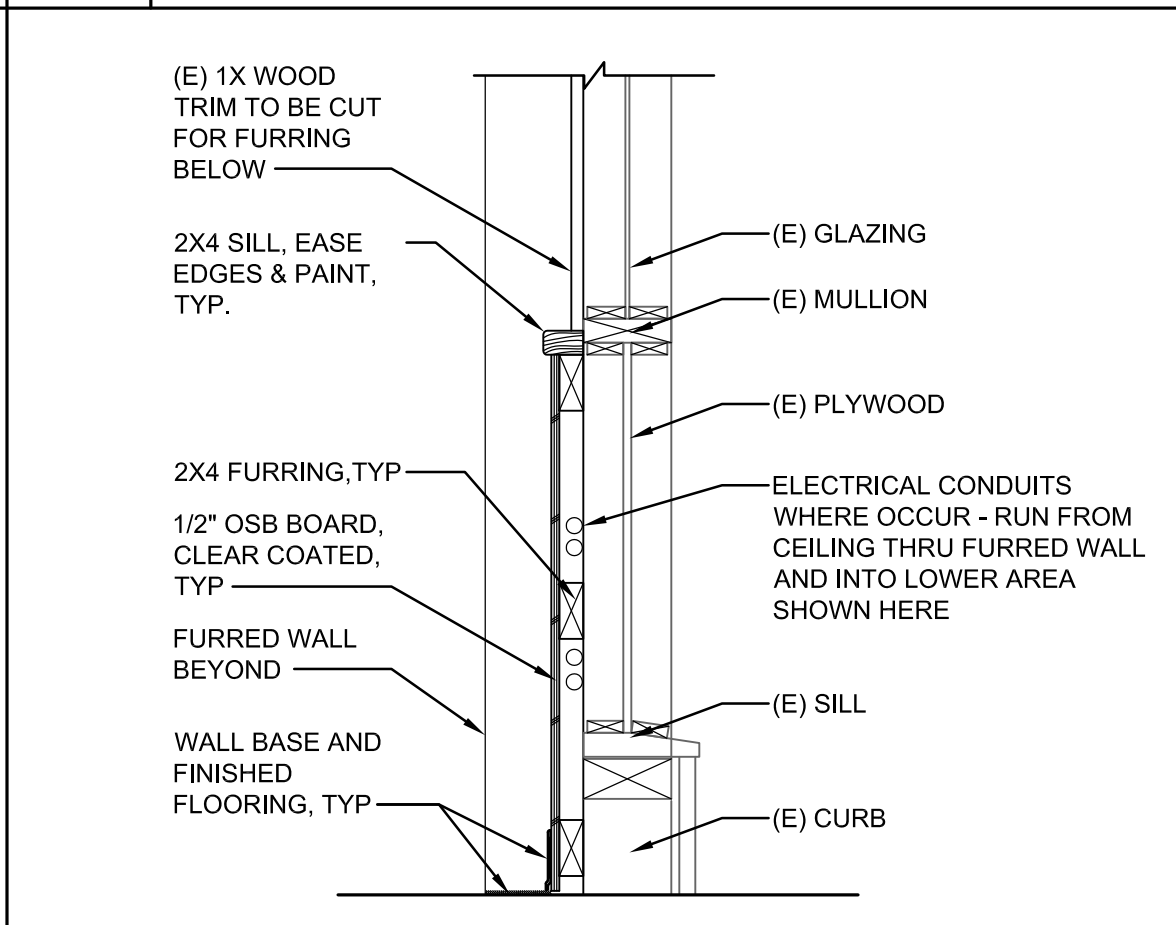
17 EXPANSION ANCHOR REQUIREMENTS
3" = 1'-0"



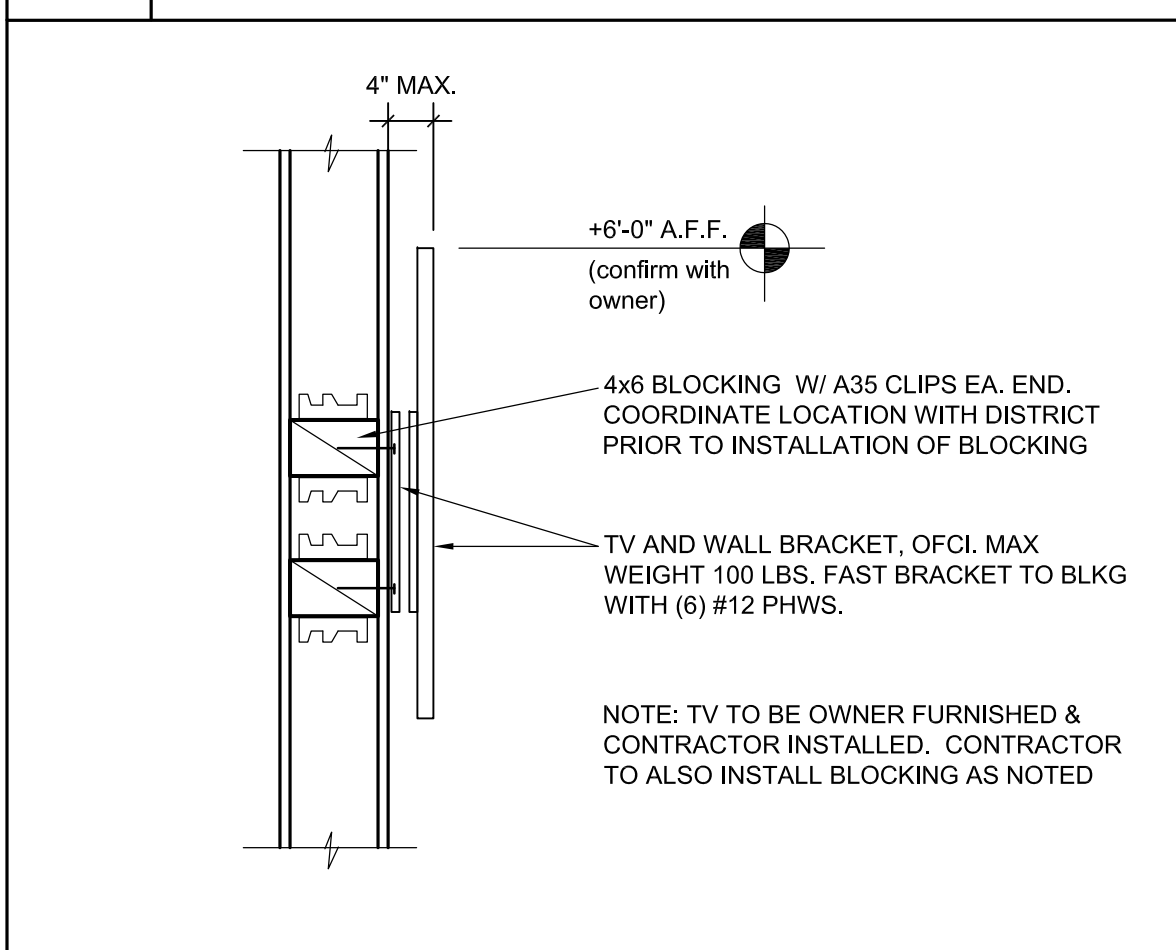
16 FURRED WALL AT (E) WINDOW
1" = 1'-0"



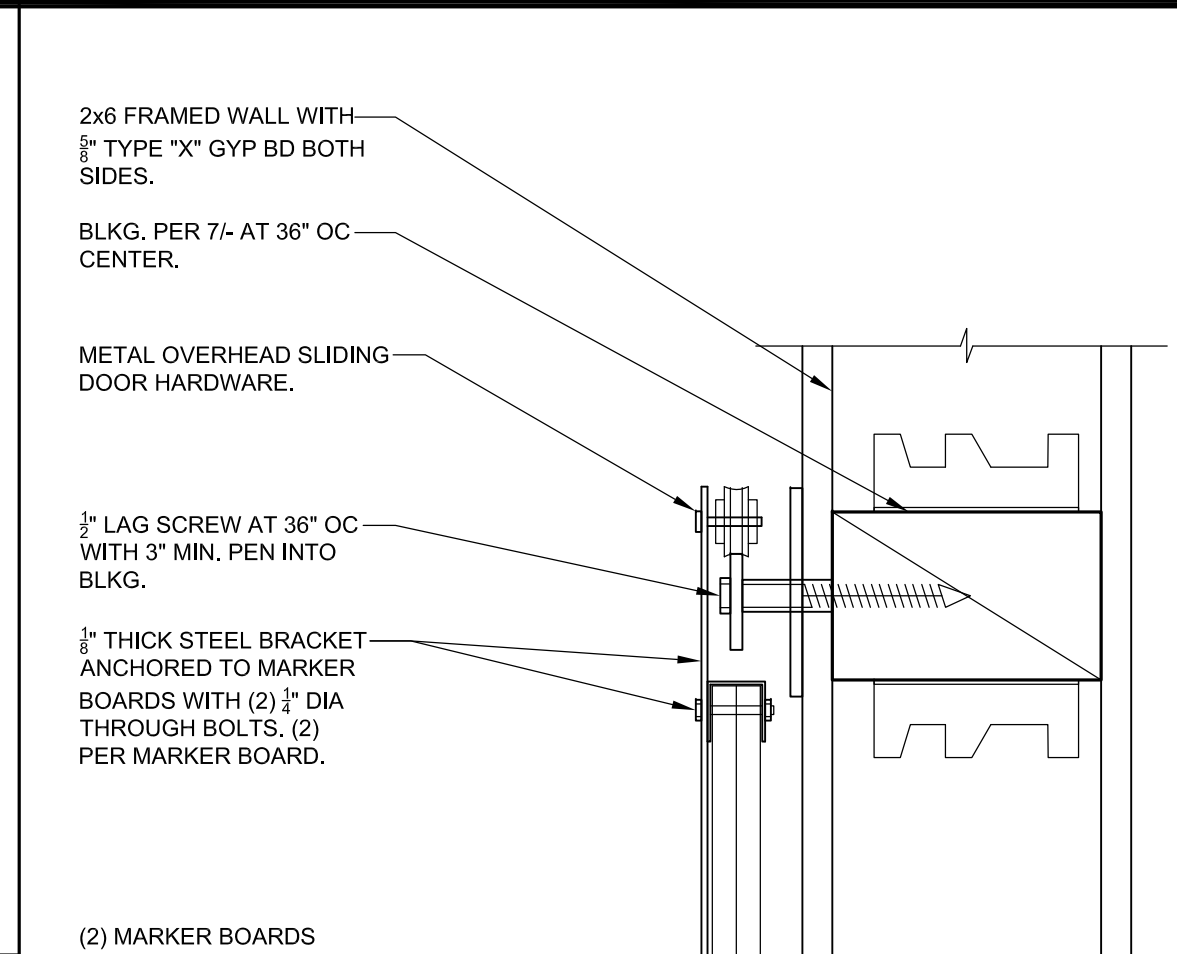
15 FURRED WALL AT (E) WINDOW
1" = 1'-0"



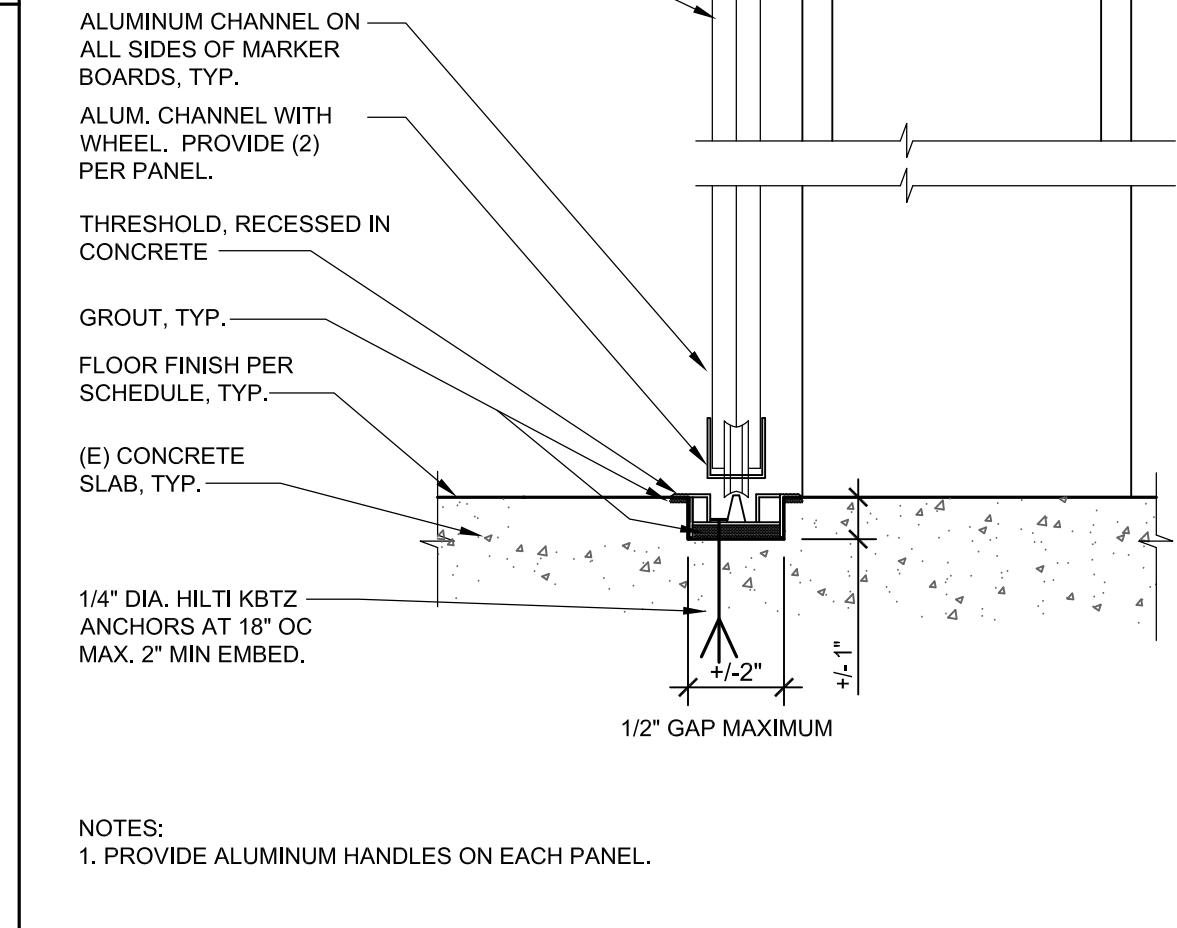
14 FURRED WALL BELOW (E) WINDOW
1" = 1'-0"



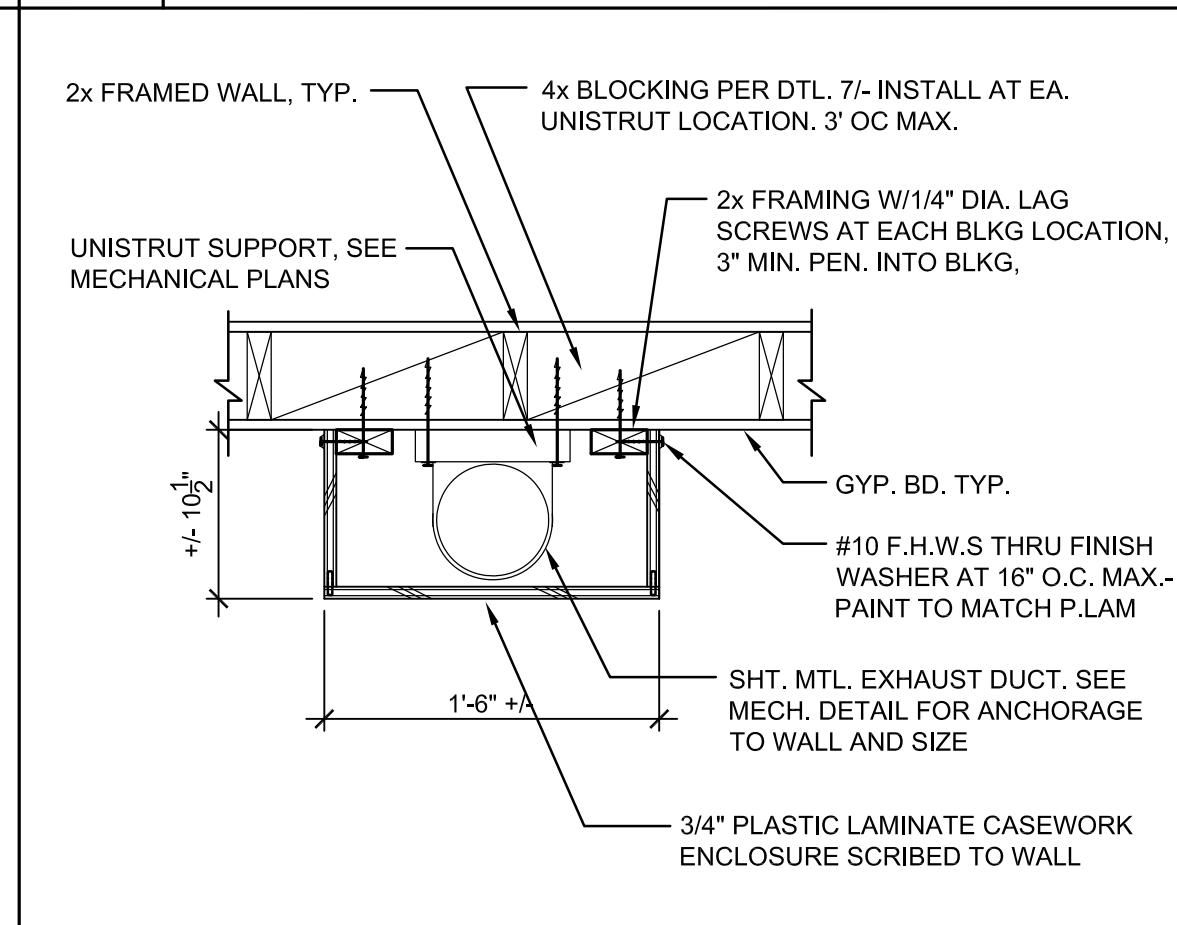
13 T.V. BRACKET MOUNTING DETAIL
1" = 1'-0"



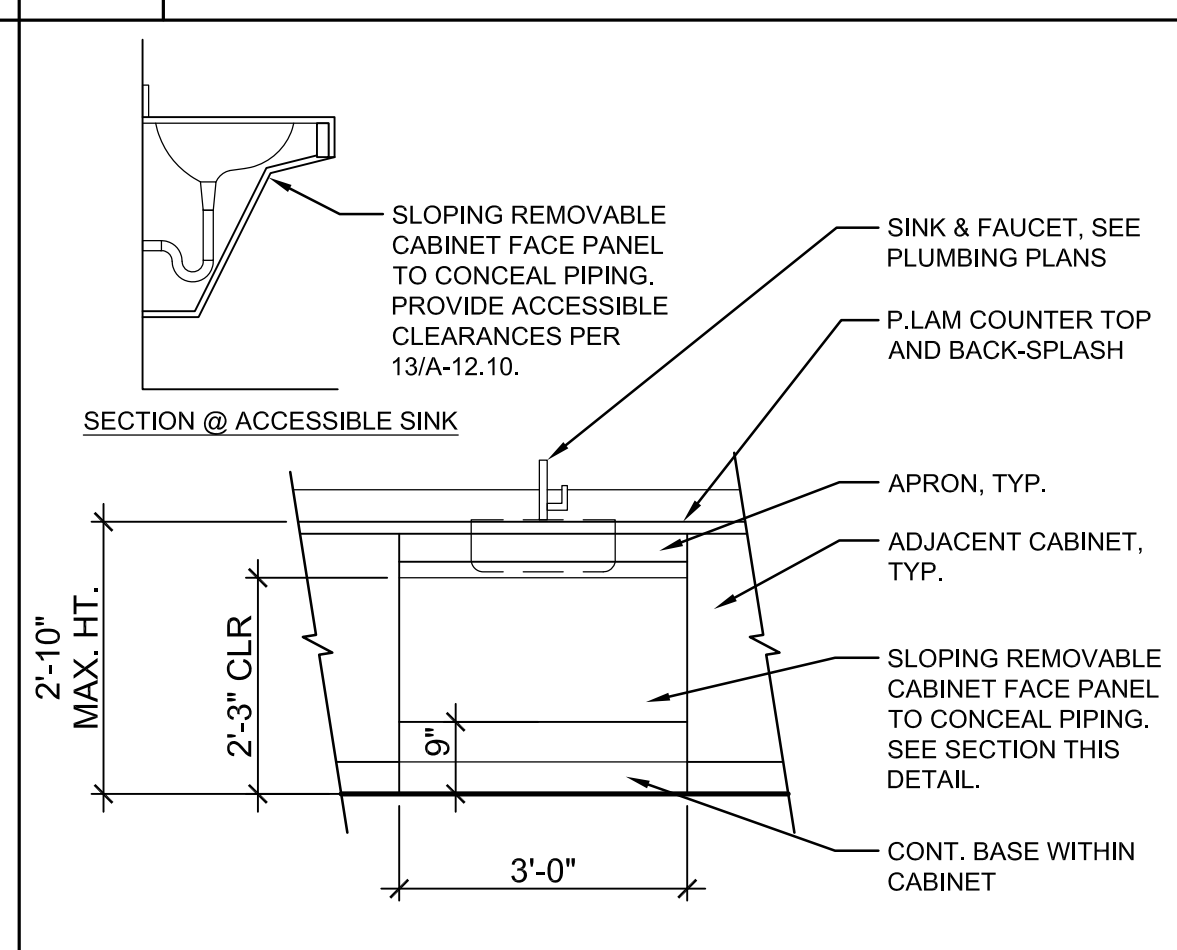
11 THRESHOLD AT SLIDING MARKER BOARD
3" = 1'-0"



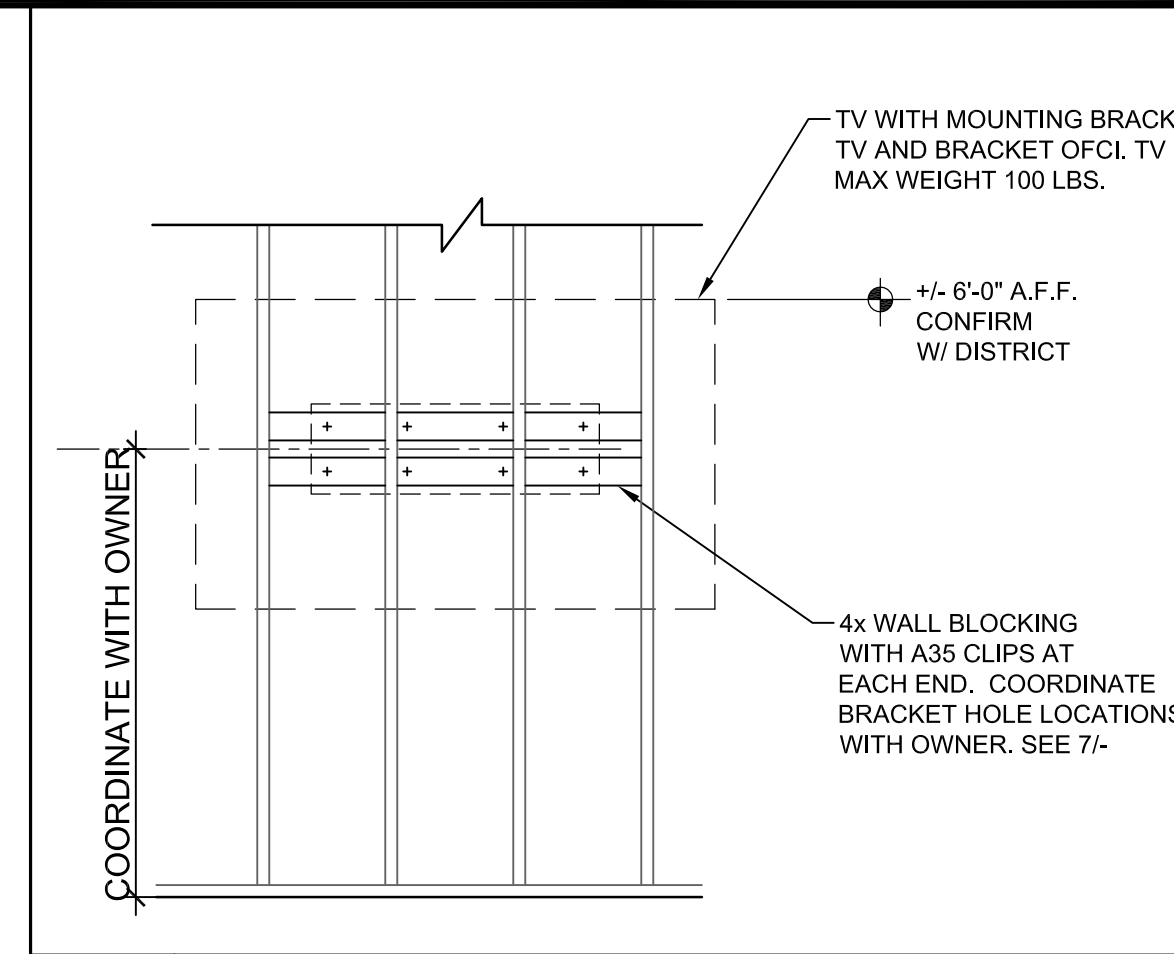
10 CASEWORK CHASE AT RANGE EXHAUST DUCT
1" = 1'-0"



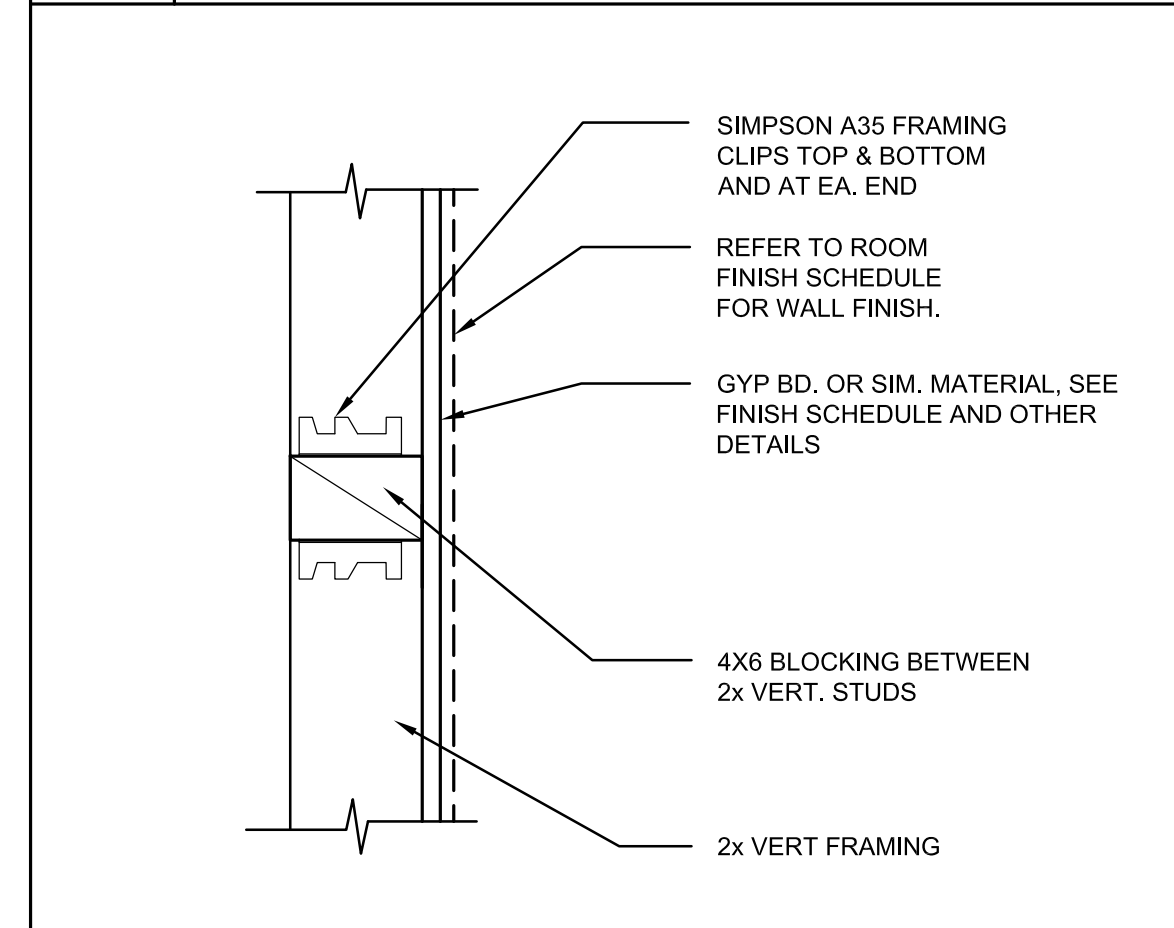
9 ACCESSIBLE SINK @ CABINETS
1/2" = 1'-0"



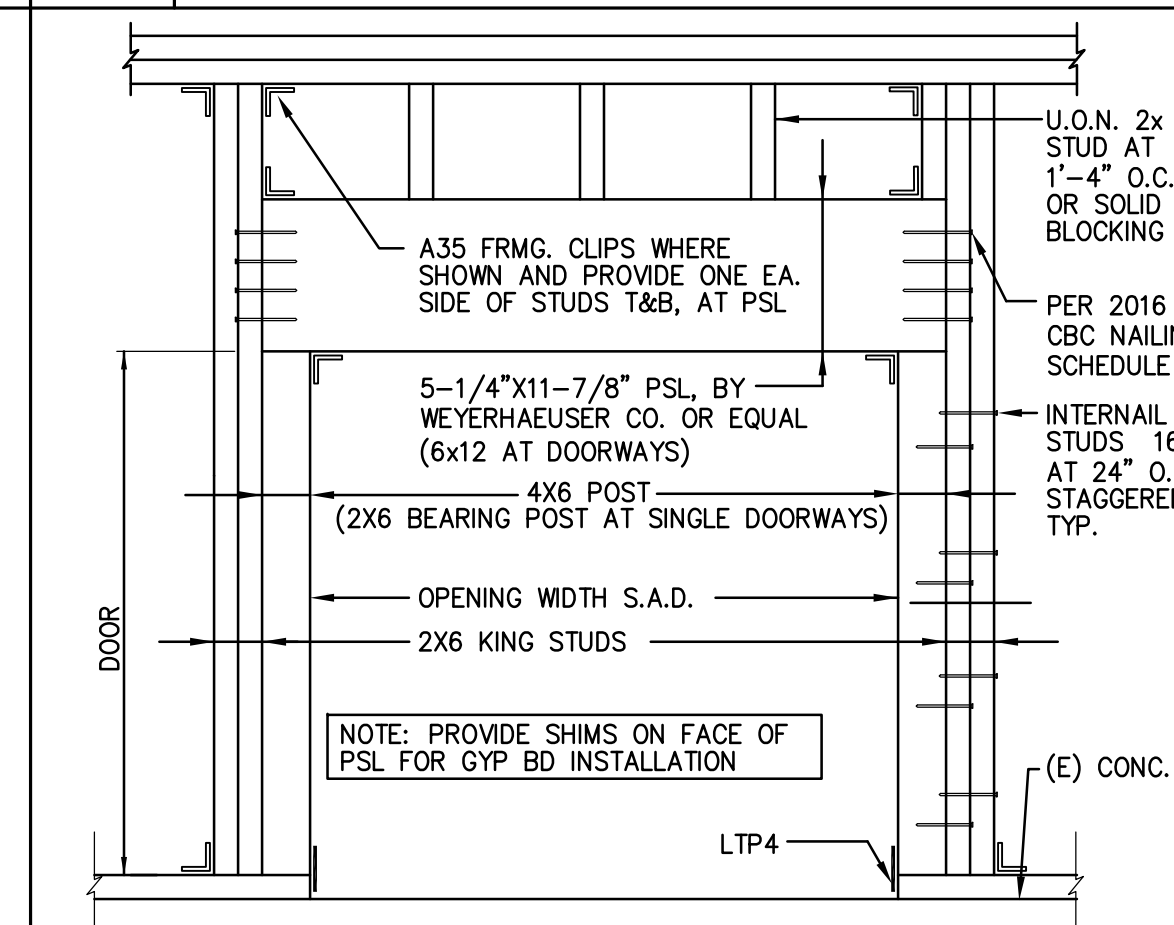
8 IN-WALL BLOCKING FOR TV AND BRACKET
1/2" = 1'-0"



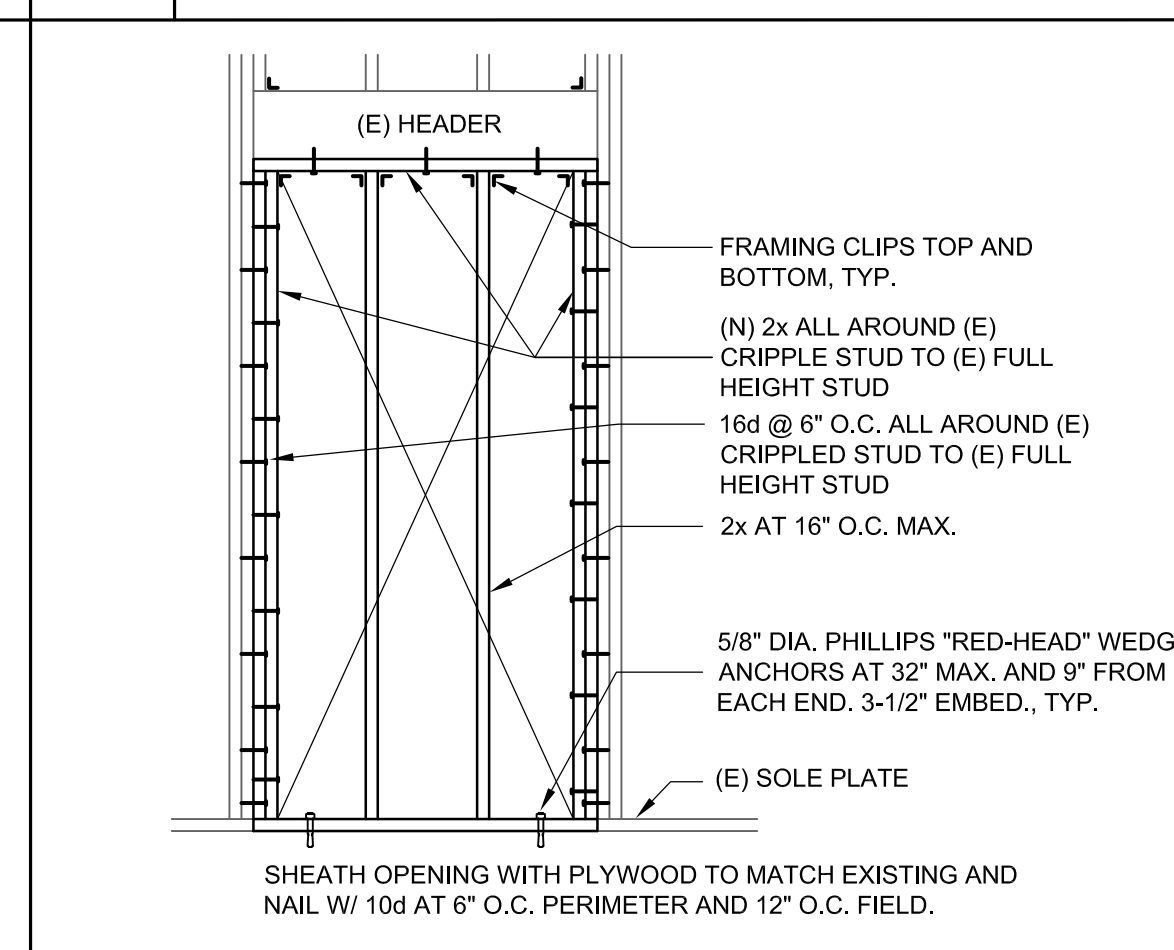
7 TYPICAL BLOCKING
NTS



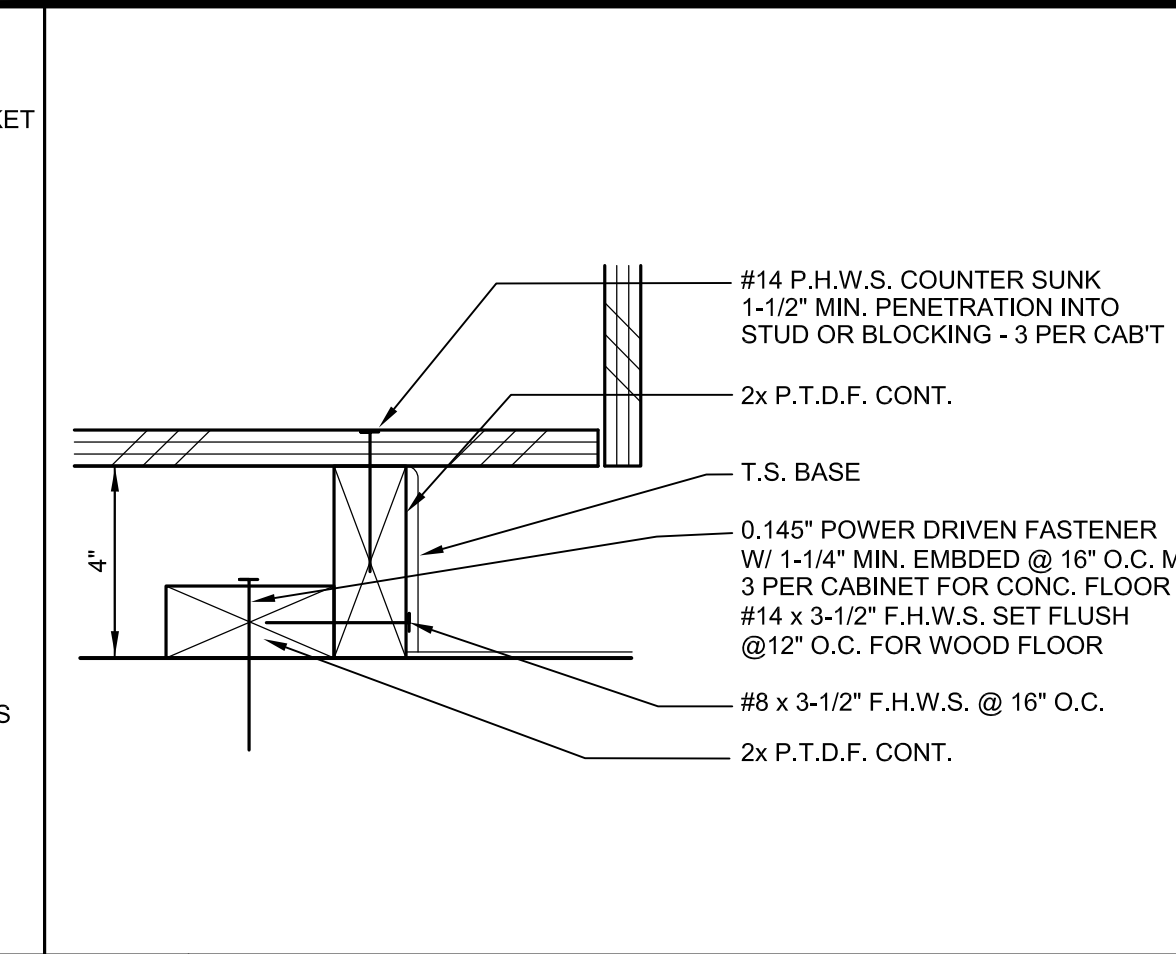
6 HEADER FRAMING AT LARGE OPENINGS
3" = 1'-0"



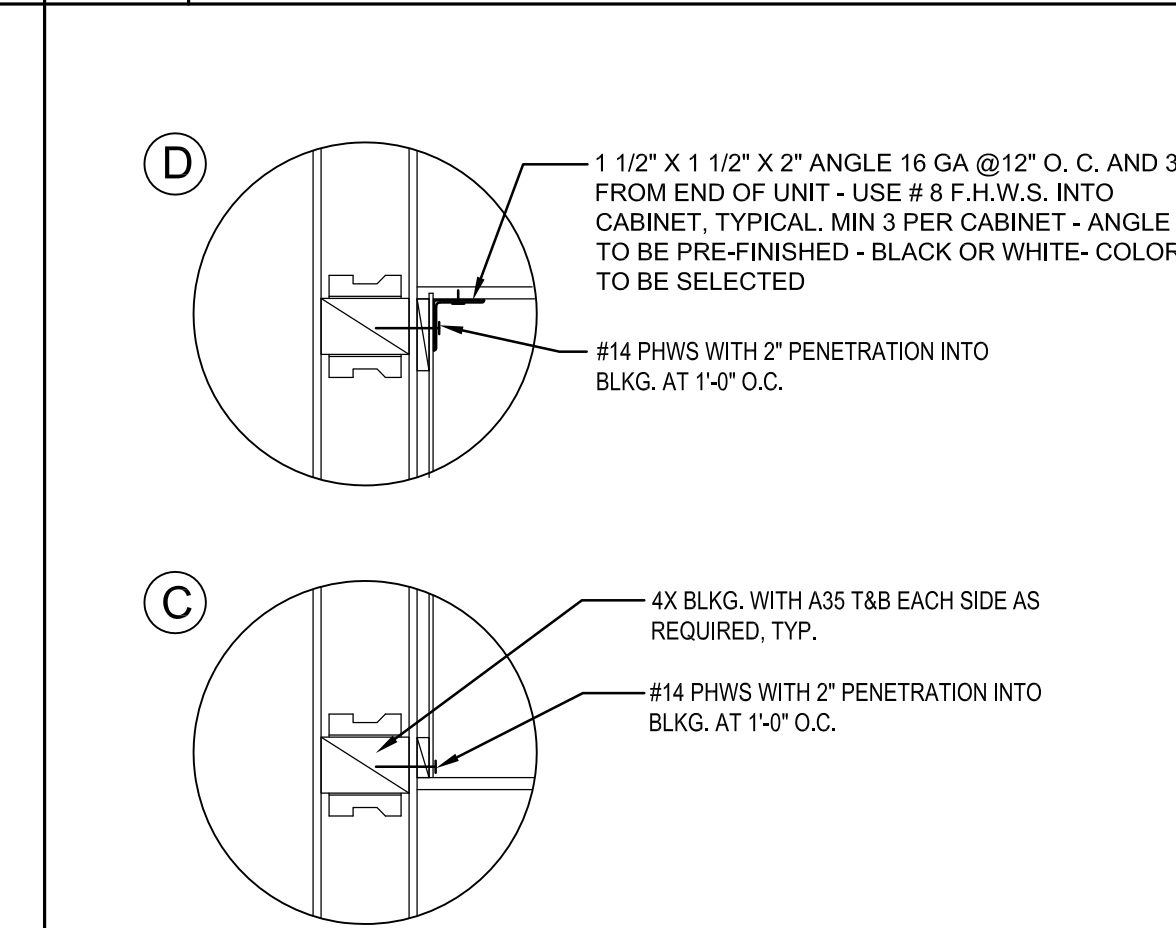
5 TYPICAL WALL INFILL
1/2" = 1'-0"



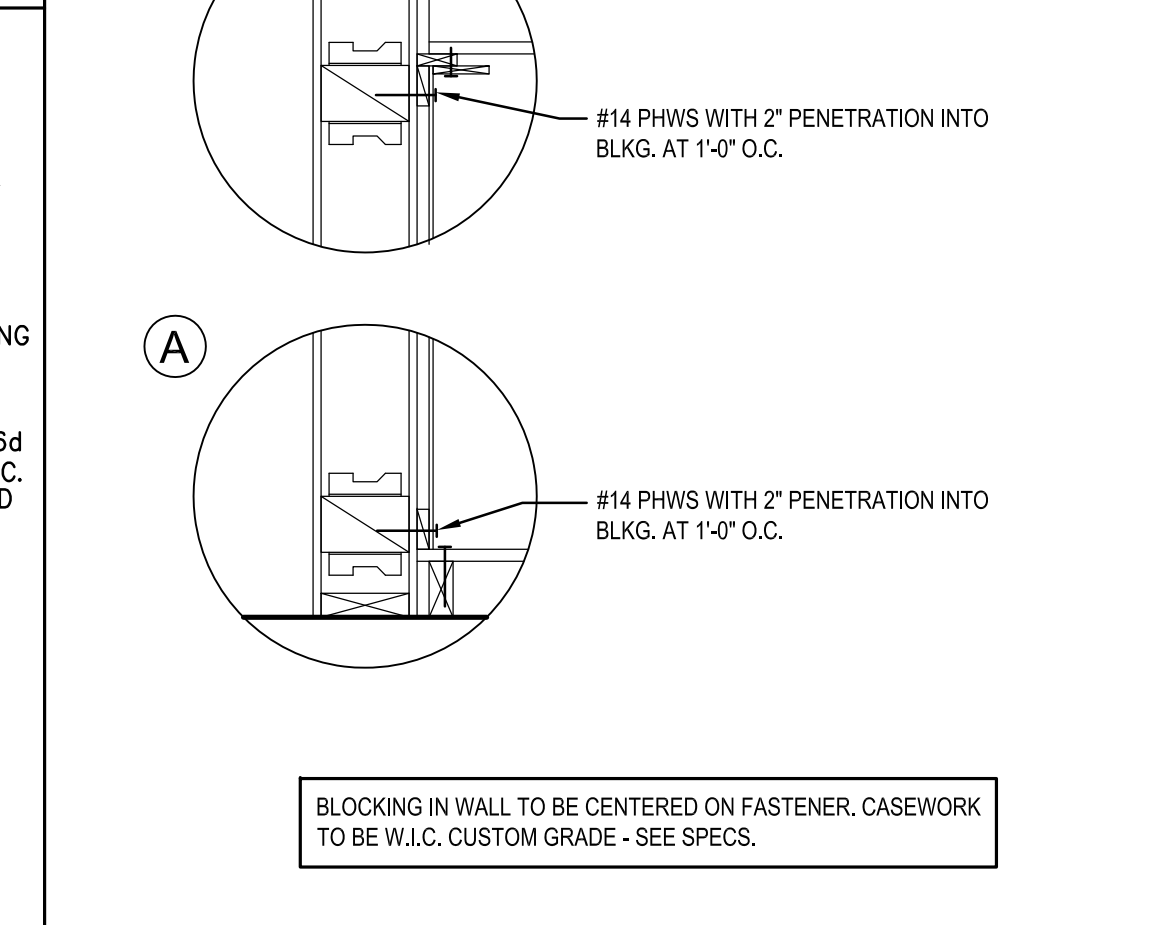
4 CASEWORK BASE
3" = 1'-0"



3 CASEWORK ATTACHMENTS
1" = 1'-0"



2 CASEWORK ATTACHMENTS
1" = 1'-0"



1 CASEWORK ATTACHMENT LOCATIONS
1/2" = 1'-0"

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Architect Seal

Project Title

TOYON ELEMENTARY SCHOOL

995 BARD STREET
SAN JOSE, CA 95127

FLEXIBLE INSTRUCTIONAL SPACE

Client

BERRYESSA UNION SCHOOL DISTRICT
1376 PIEDMONT ROAD
SAN JOSE, CA 95132

No	Revisions/Submissions	Date
	DSA Back-Check	10.17.18

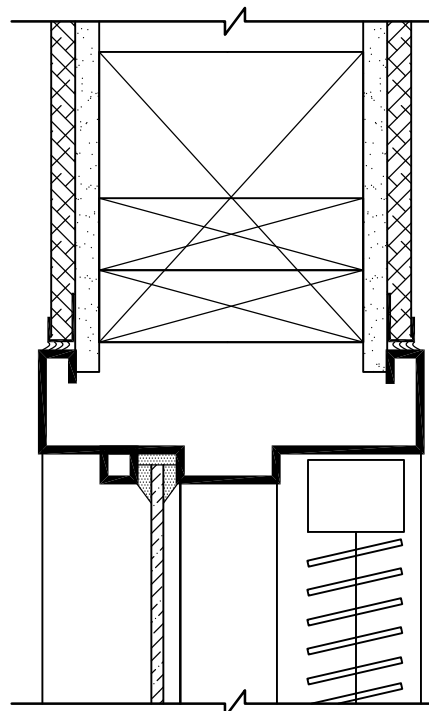
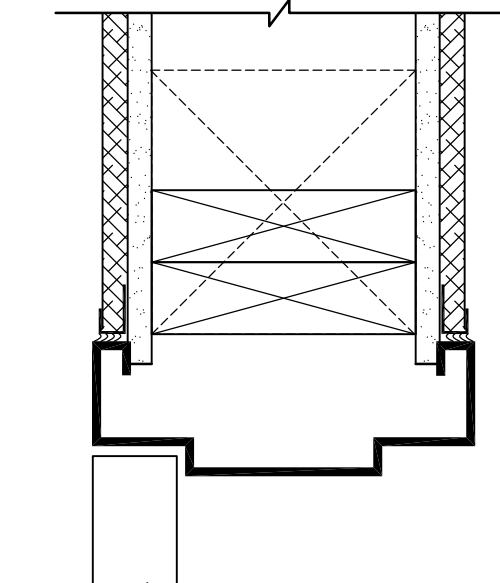
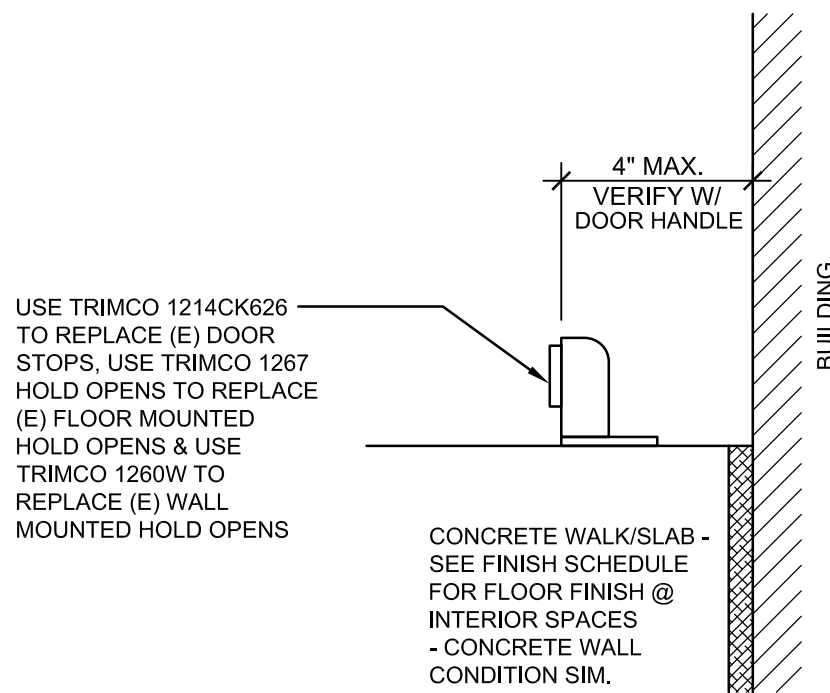
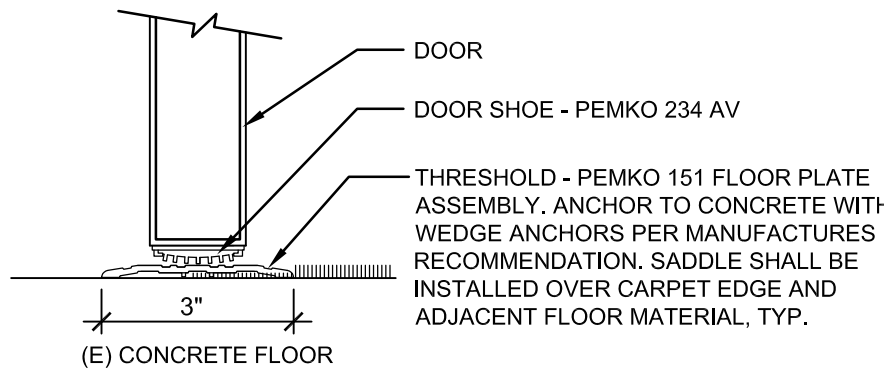
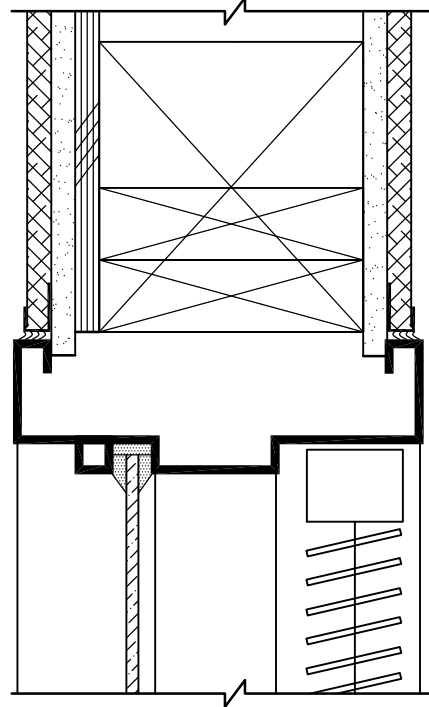
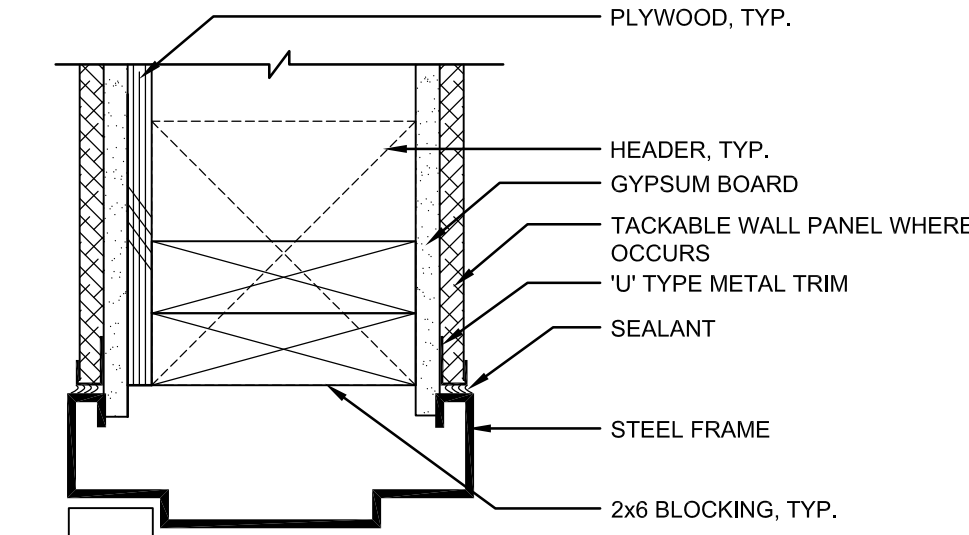
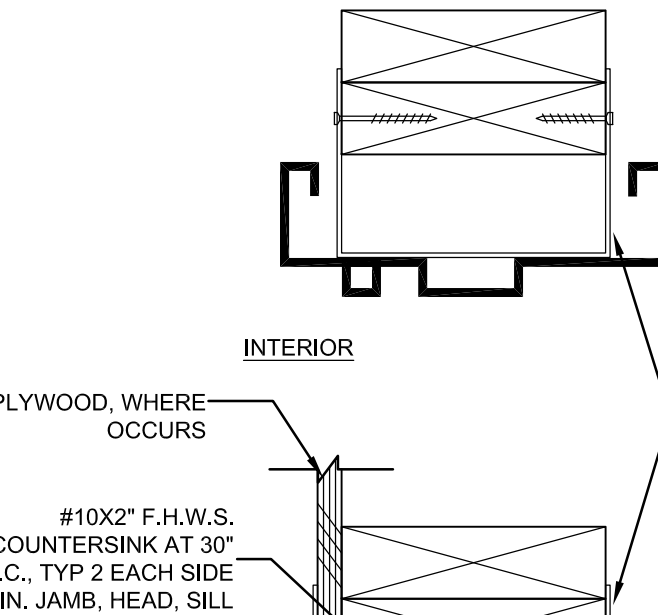
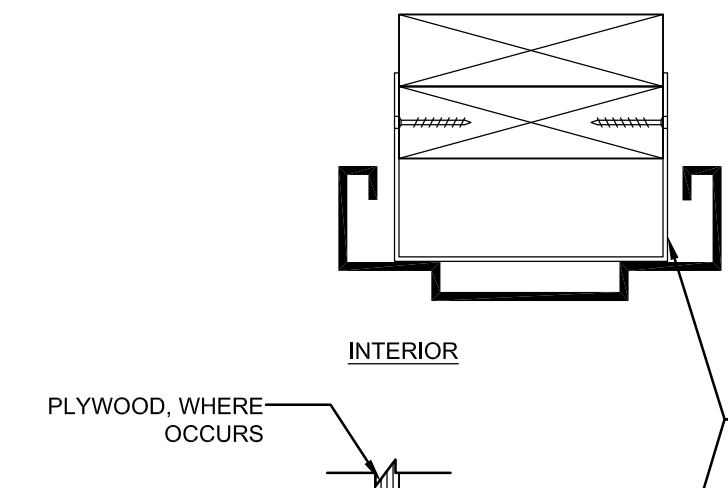
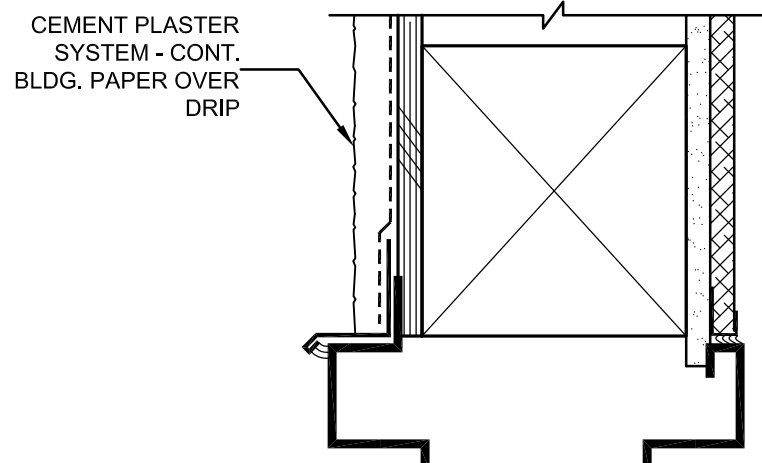
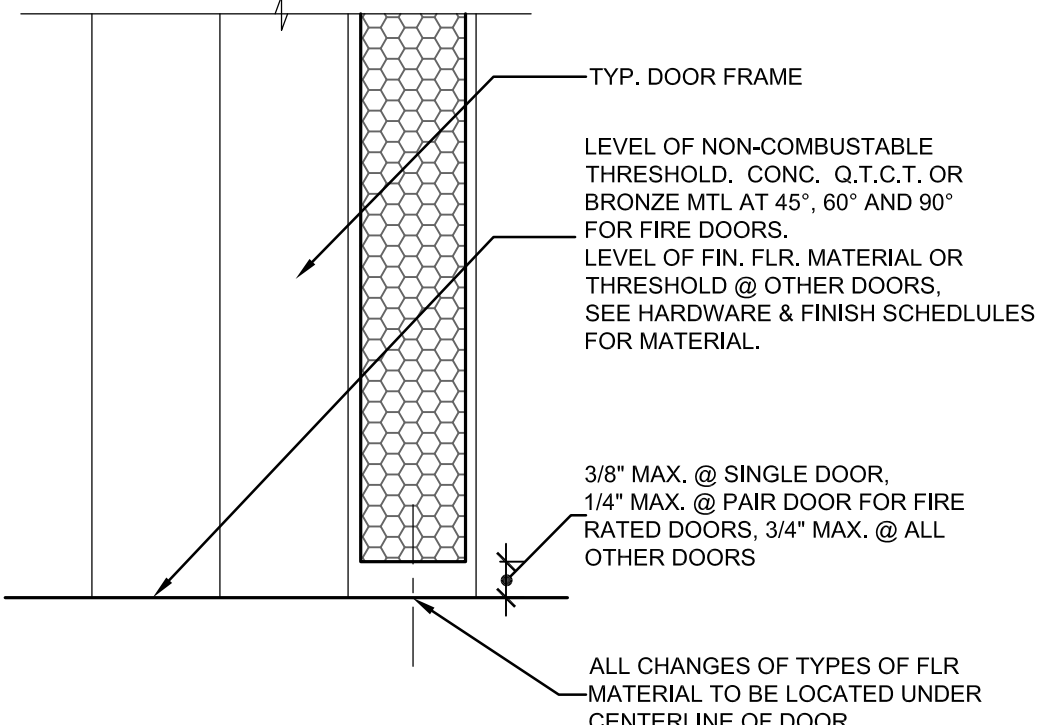
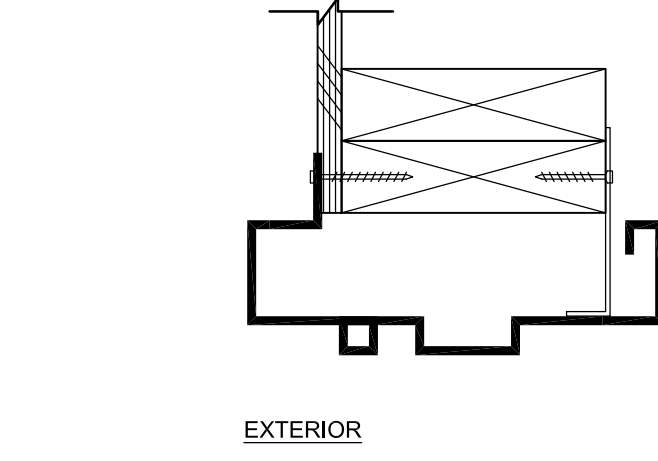
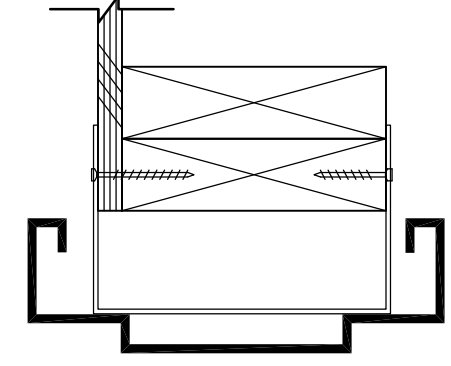
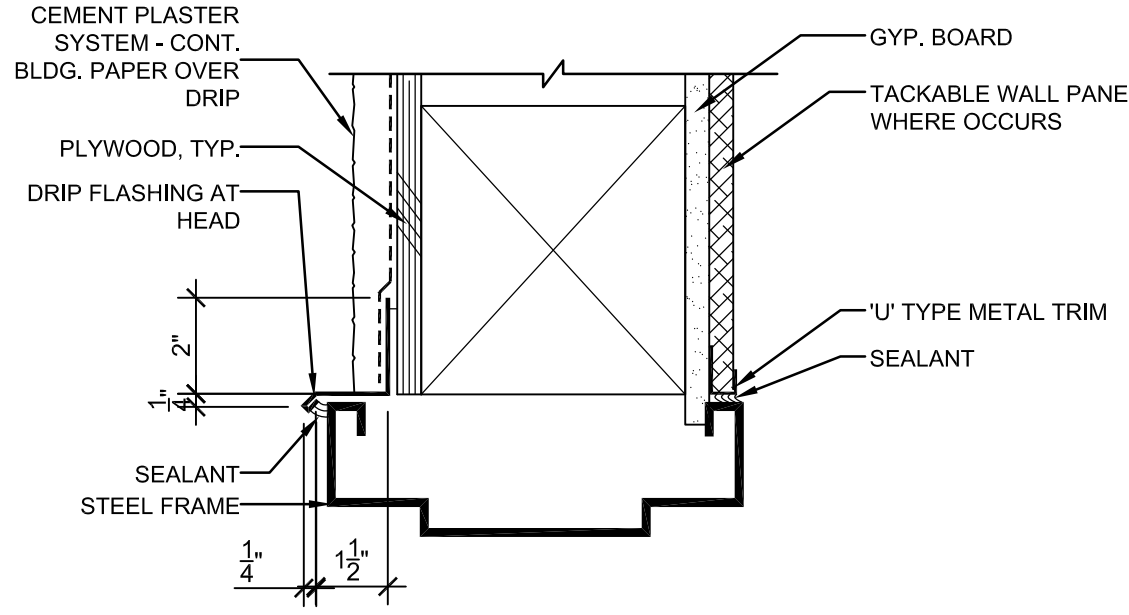
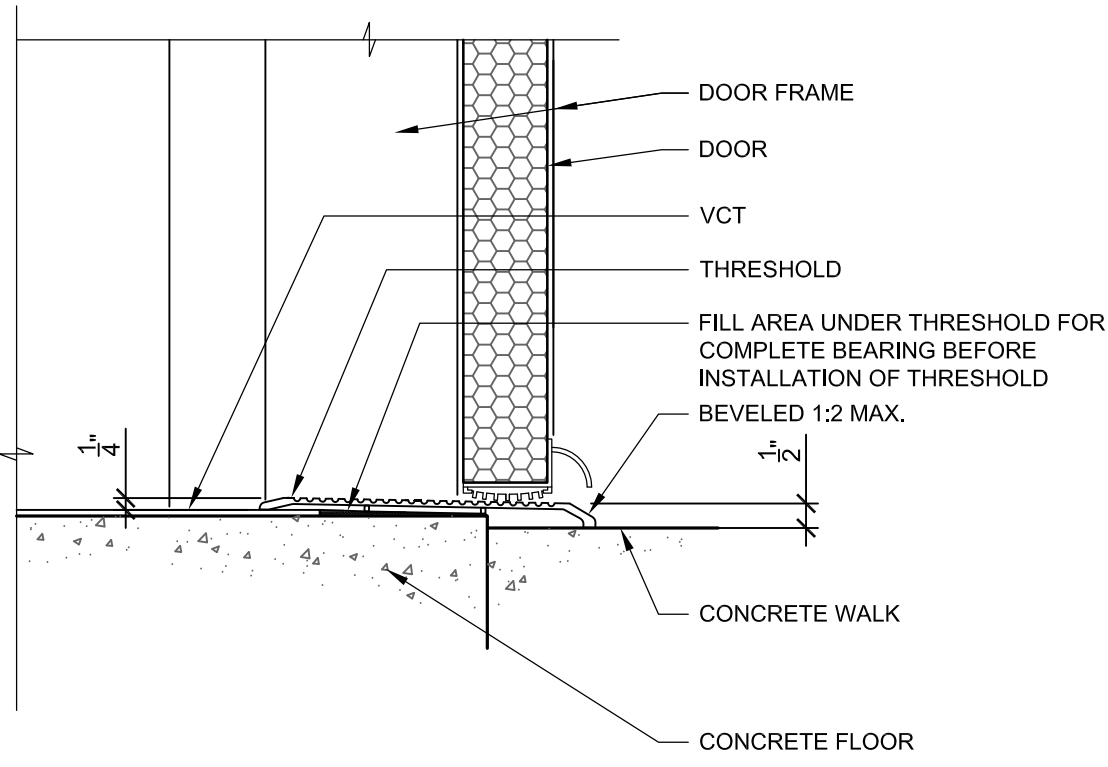
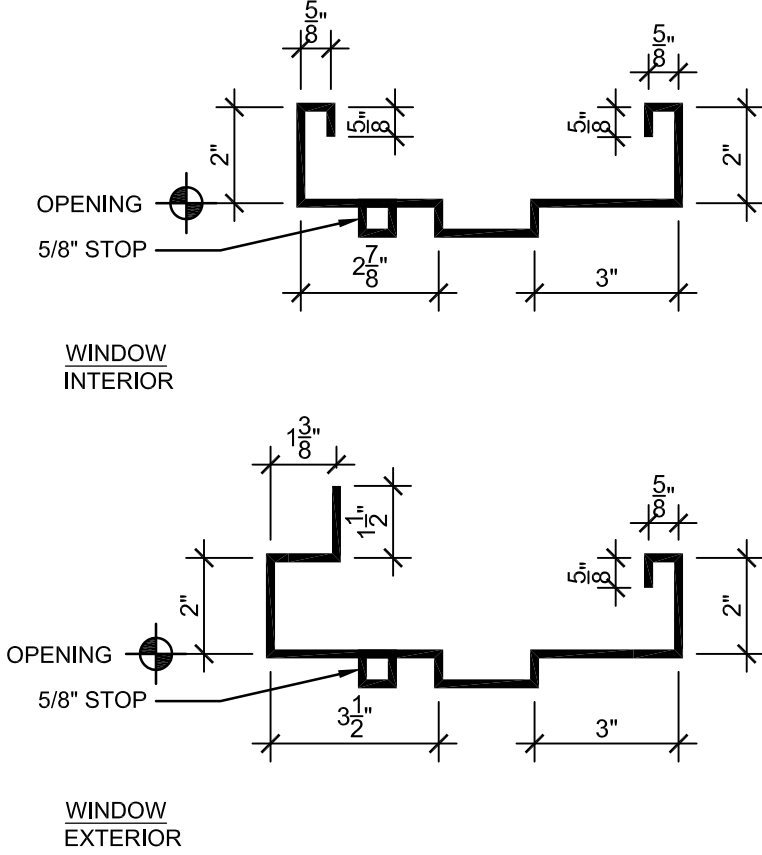
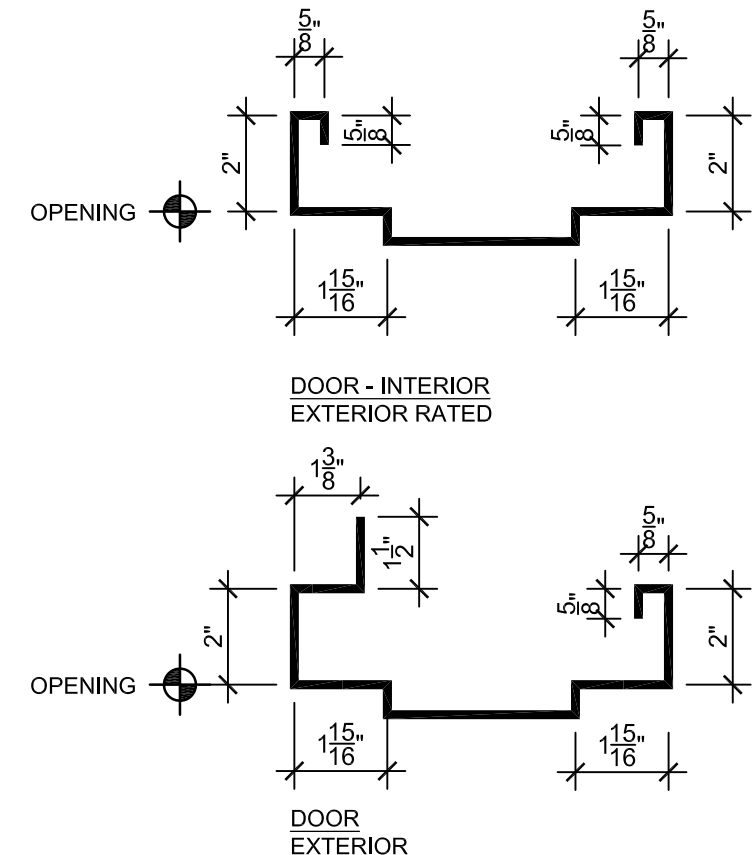
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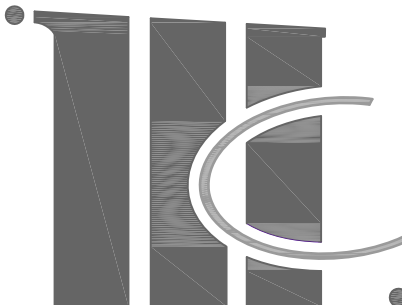
FRAMING & CASEWORK DETAILS

Project No. 1711	Date August 6, 2018
Regulatory Agency Approval	
IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT	
APPL 01-117713 ACS_FLS_SSS	
DATE _____	
File: 43-7	

Drawing Number


CD A-12.6

		 INTERIOR		 INTERIOR DOOR (SEE NOTES BELOW)		 USE TRIMCO 1214CK626 TO REPLACE (E) DOOR STOPS. USE TRIMCO 1267 HOLD OPENS TO REPLACE (E) FLOOR MOUNTED HOLD OPENS & USE TRIMCO 1260W TO REPLACE (E) WALL MOUNTED HOLD OPENS CONCRETE WALK/SLAB - SEE FINISH SCHEDULE FOR FLOOR FINISH @ INTERIOR SPACES - CONCRETE WALL CONDITION SIM.		 DOOR DOOR SHOE - PEMKO 234 AV THRESHOLD - PEMKO 151 FLOOR PLATE ASSEMBLY. ANCHOR TO CONCRETE WITH WEDGE ANCHORS PER MANUFACTURER'S RECOMMENDATION. SADDLE SHALL BE INSTALLED OVER CARPET EDGE AND ADJACENT FLOOR MATERIAL, TYP. (E) CONCRETE FLOOR									
20						8	DOOR STOP/HOLD OPEN	N.T.S.		4	DOOR THRESHOLD - INTERIOR	3" = 1'-0"					
		 INTERIOR WITH SHEATHING NOTE: SEE 5 & 6/- FOR PROFILE AND ANCHORAGE		 INTERIOR WITH SHEATHING NOTE: SEE 1 & 2/- FOR PROFILE AND ANCHORAGE		 INTERIOR PLYWOOD, WHERE OCCURS #10X2" F.H.W.S. COUNTERSINK AT 30" O.C., TYP 2 EACH SIDE MIN. JAMB, HEAD, SILL STEEL FRAME INTERIOR WITH SHEATHING 2"x18 GA. STEEL STRAPS WELDING TO FRAME WITH (2) #10x1-1/2" F.H.W.S. COUNTERSINK AT 30" O.C. 2 EACH SIDE MIN. HEAD JAMB SILL		 INTERIOR PLYWOOD, WHERE OCCURS #10X2" F.H.W.S. COUNTERSINK 3 EA. JAMB 2 AT HEAD STEEL FRAME EXTERIOR 2" x 18 GA. STEEL STRAPS WELDING TO FRAME WITH (2) #10x1-1/2" F.H.W.S. COUNTERSINK 3 STRAPS PER JAMB, ALIGN WITH DOOR HINGES, 2 AT HEAD									
19		15	WINDOW FRAME - FINISHES INTERIOR HEAD / JAMB	3" = 1'-0"		11	DOOR FRAME - FINISHES INTERIOR HEAD / JAMB	3" = 1'-0"									
		 EXTERIOR DOOR HEAD - NON RATED (SEE BELOW FOR NOTES)		 TYP. DOOR FRAME LEVEL OF NON-COMBUSTABLE THRESHOLD. CONC. Q.T.C.T. OR BRONZE MTL AT 45°, 60° AND 90° FOR FIRE DOORS. LEVEL OF FIN. FLR. MATERIAL OR THRESHOLD @ OTHER DOORS, SEE HARDWARE & FINISH SCHEDULES FOR MATERIAL. 3/8" MAX. @ SINGLE DOOR, 1/4" MAX. @ PAIR DOOR FOR FIRE RATED DOORS, 3/4" MAX. @ ALL OTHER DOORS ALL CHANGES OF TYPES OF FLR MATERIAL TO BE LOCATED UNDER CENTERLINE OF DOOR		 EXTERIOR STEEL FRAME INTERIOR WITH SHEATHING		 INTERIOR / EXTERIOR RATED WITH SHEATHING									
18				10	INTERIOR DOOR SILL	3" = 1'-0"		6	WINDOW FRAME - FINISHES EXTERIOR HEAD / JAMB	3" = 1'-0"		2	DOOR FRAME ATTACHMENT	3" = 1'-0"			
		 EXTERIOR DOOR HEAD - RATED NOTE: SEE 1 & 2/- FOR PROFILE AND ANCHORAGE		 DOOR FRAME DOOR VCT THRESHOLD FILL AREA UNDER THRESHOLD FOR COMPLETE BEARING BEFORE INSTALLATION OF THRESHOLD BEVELED 1:2 MAX. CONCRETE WALK CONCRETE FLOOR		 WINDOW INTERIOR OPENING 5/8" STOP WINDOW EXTERIOR OPENING 5/8" STOP		 DOOR - INTERIOR EXTERIOR RATED OPENING DOOR EXTERIOR									
17		13	DOOR FRAME - FINISHES EXTERIOR HEAD / JAMB SIM.	3" = 1'-0"		9	EXTERIOR DOOR THRESHOLD	3" = 1'-0"		5	WINDOW FRAME DETAIL	3" = 1'-0"		1	DOOR FRAME DETAIL	3" = 1'-0"	



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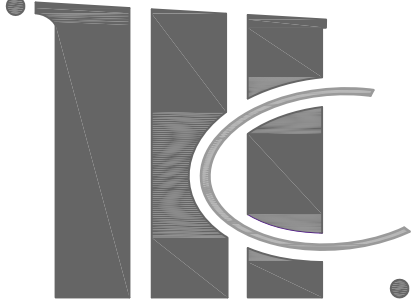
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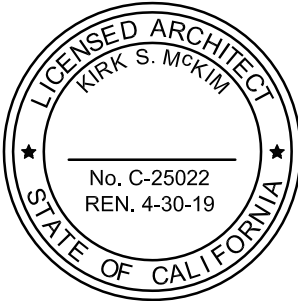
DOOR & WINDOW DETAILS

Project No.	1711	Date	August 6, 2018
Regulatory Agency Approval			
IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT APPL 01-117713 ACS_FLS_SSS____ DATE_____			
File: 43-7			

CD	Drawing Number
	A-12.8



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DOOR & WINDOW DETAILS

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APPL 01-117713

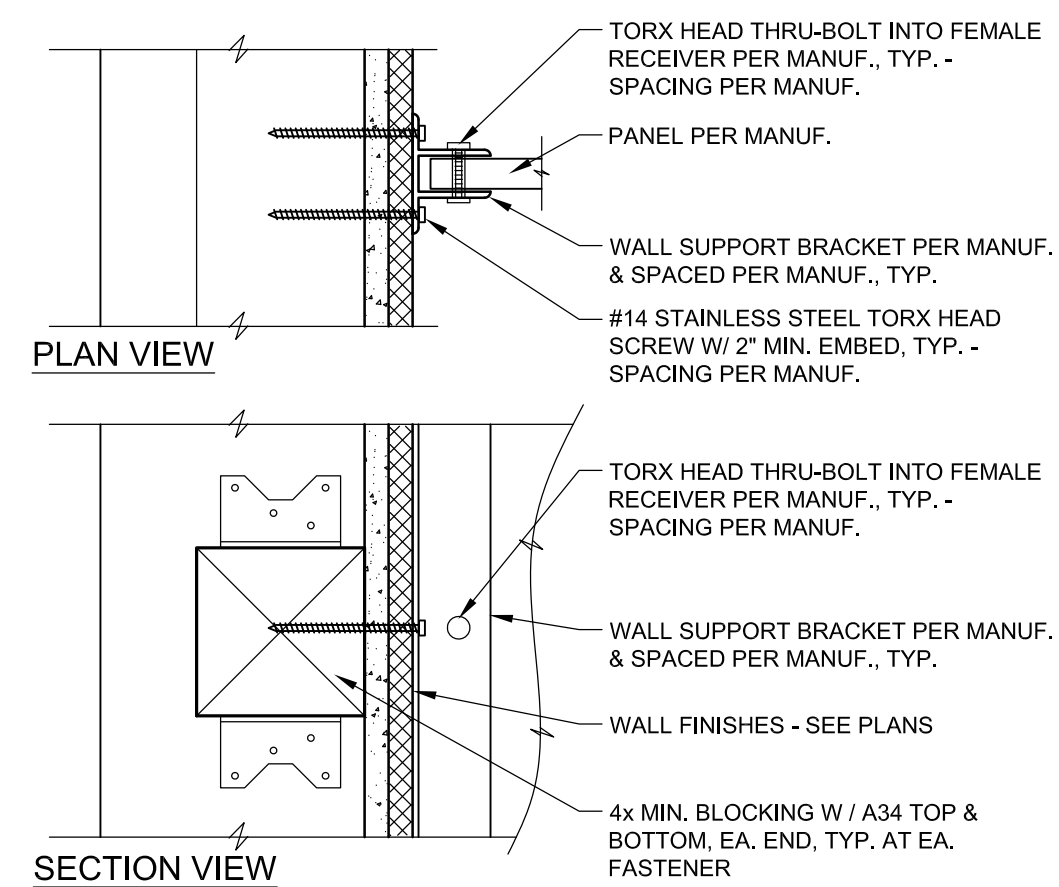
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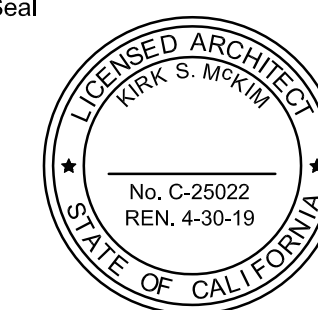
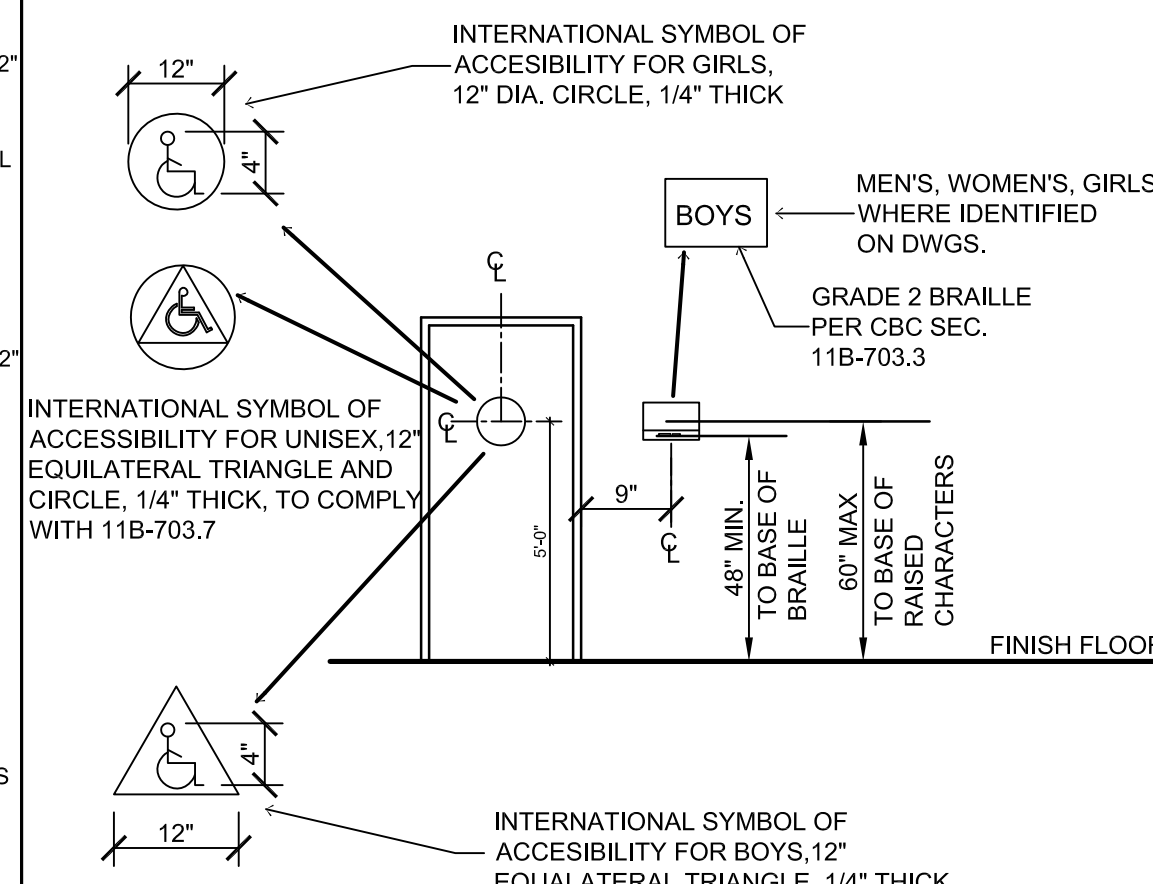
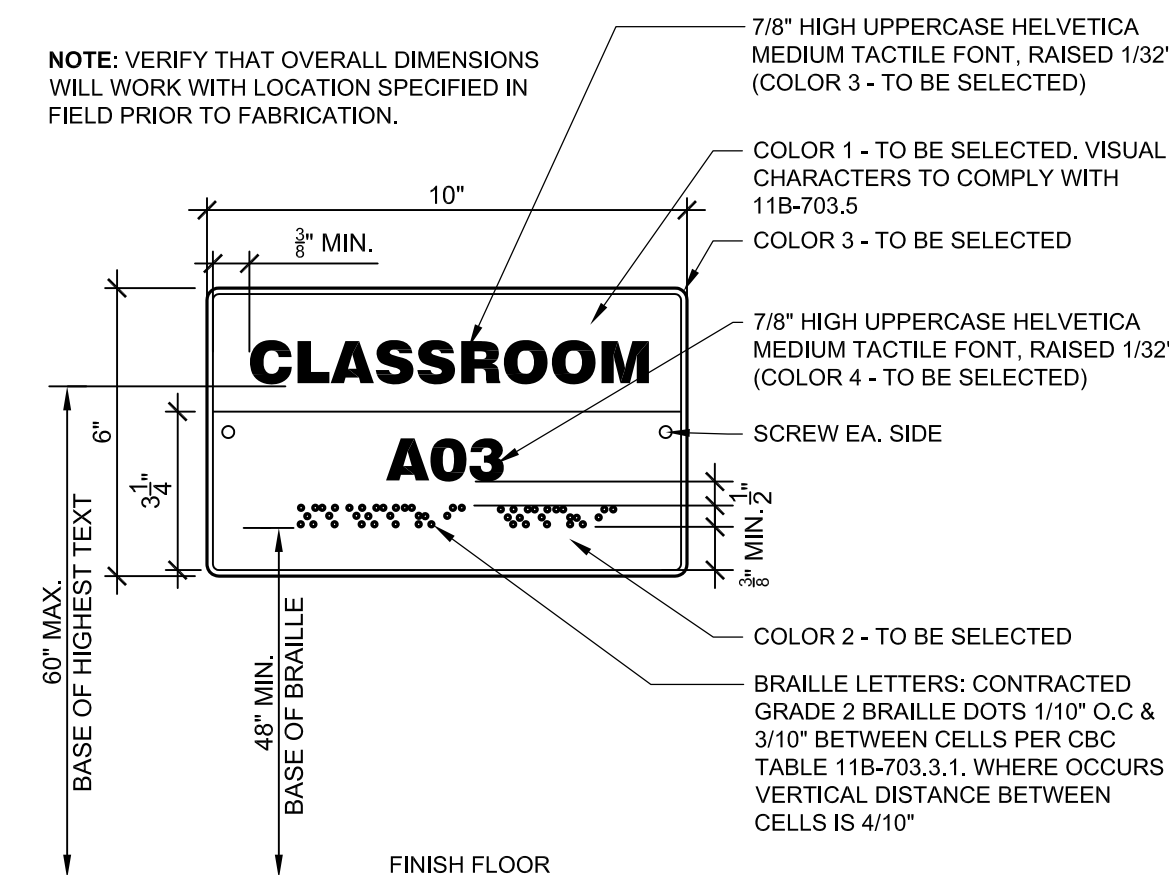
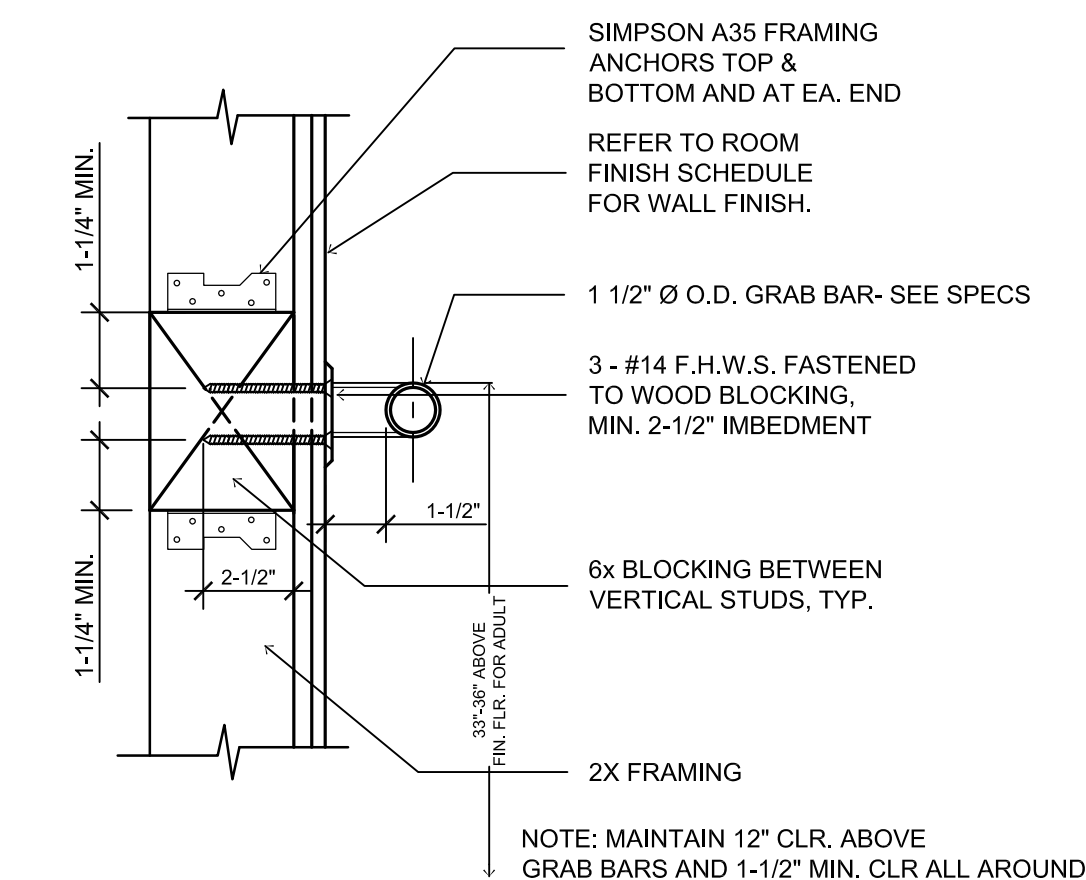
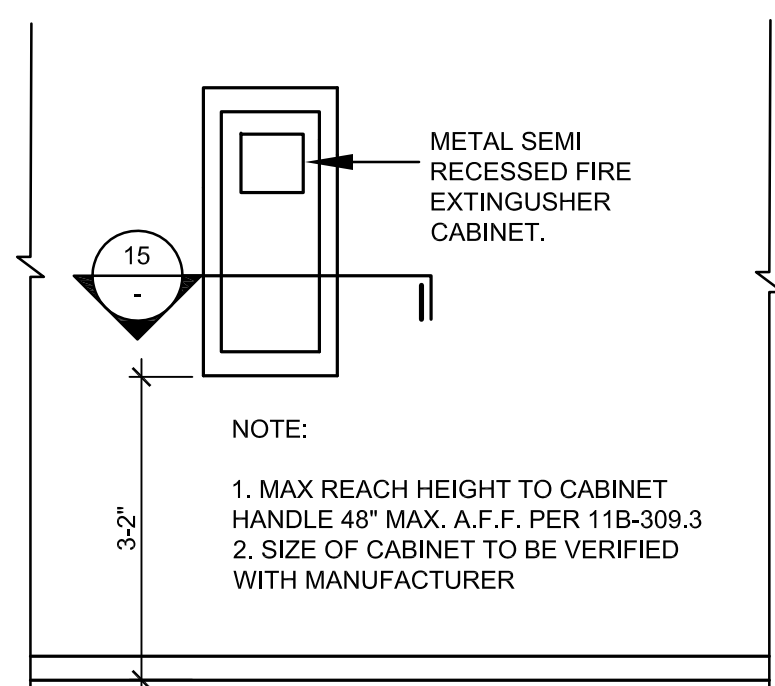
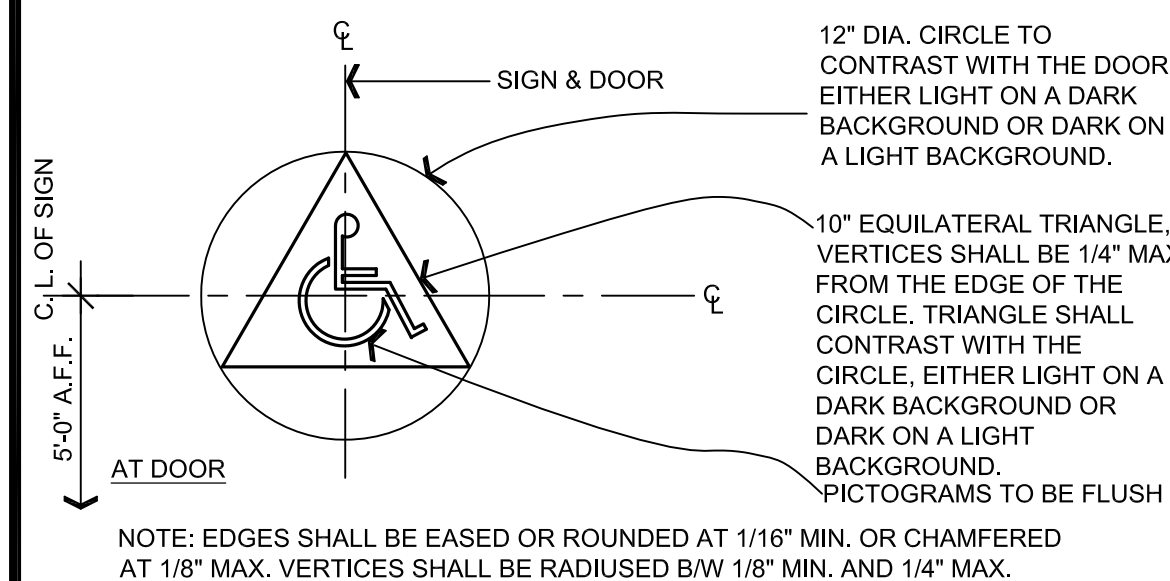
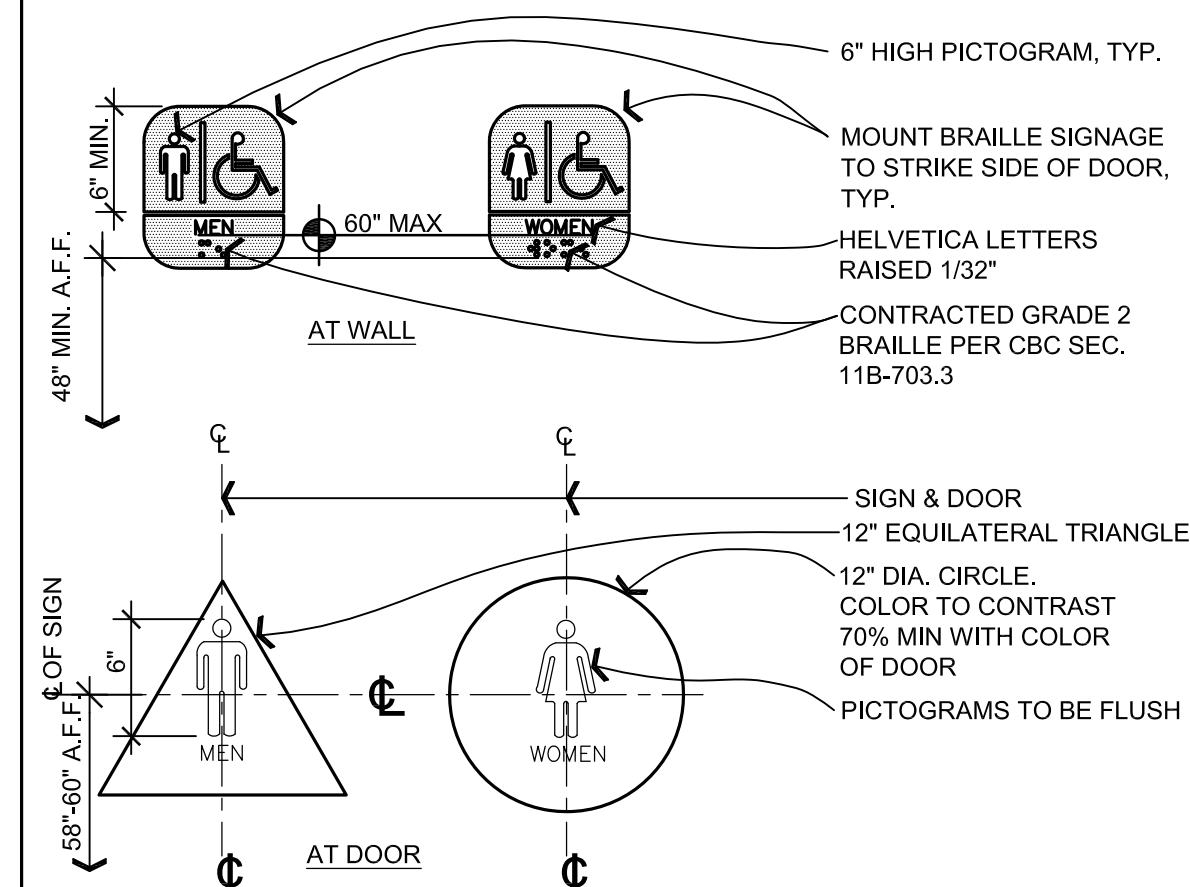
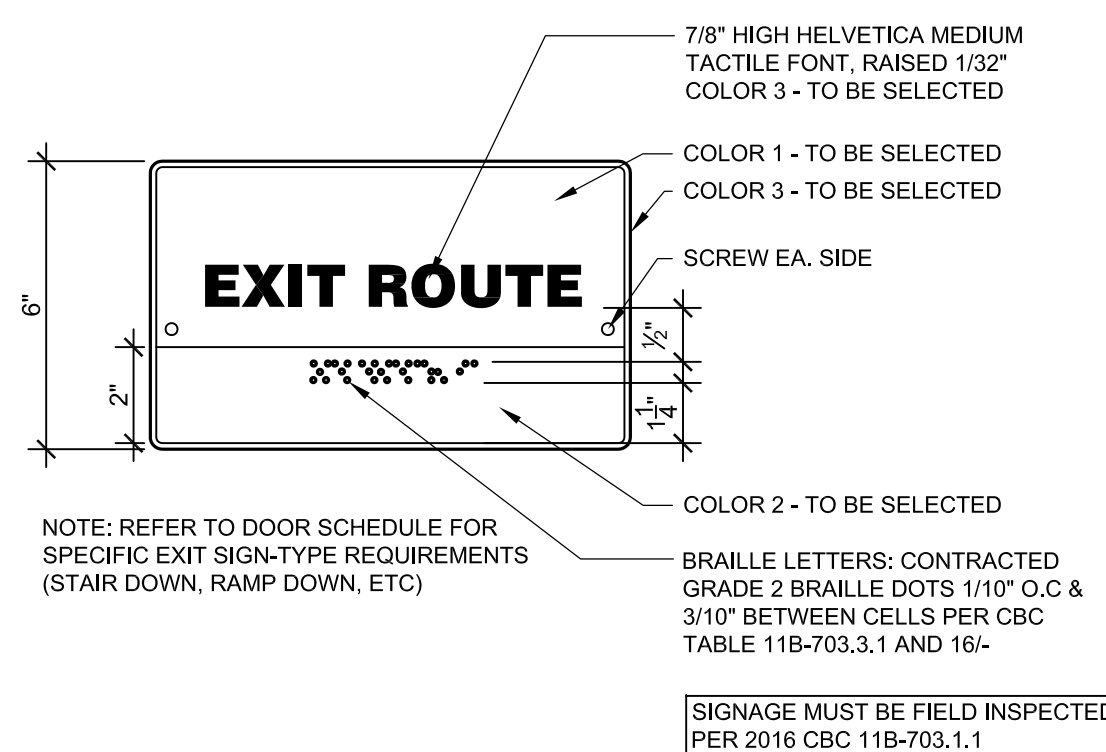
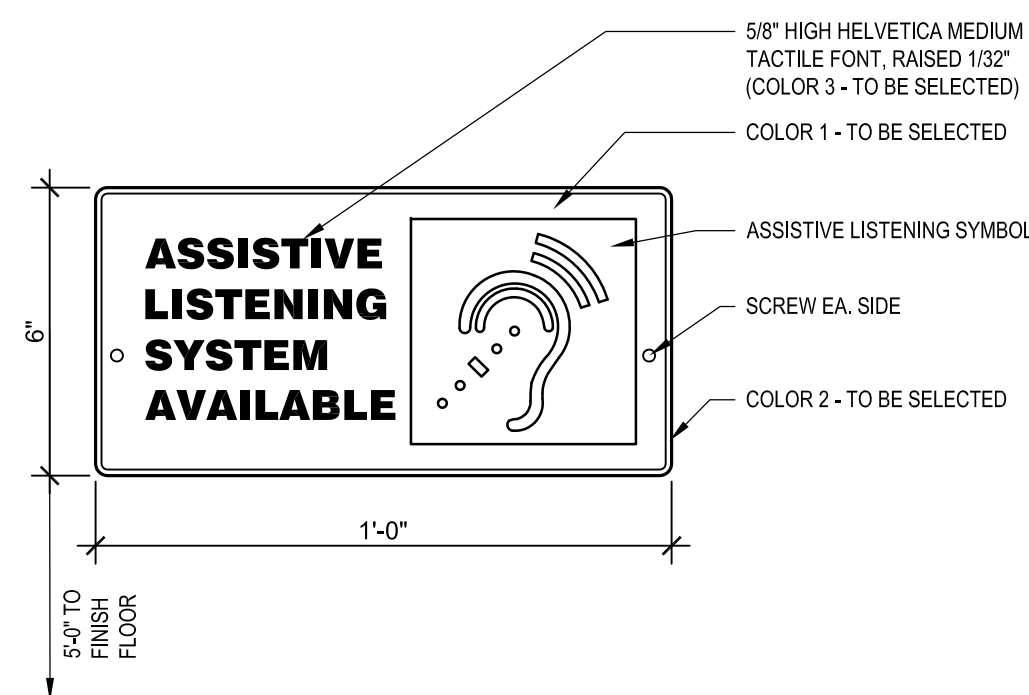
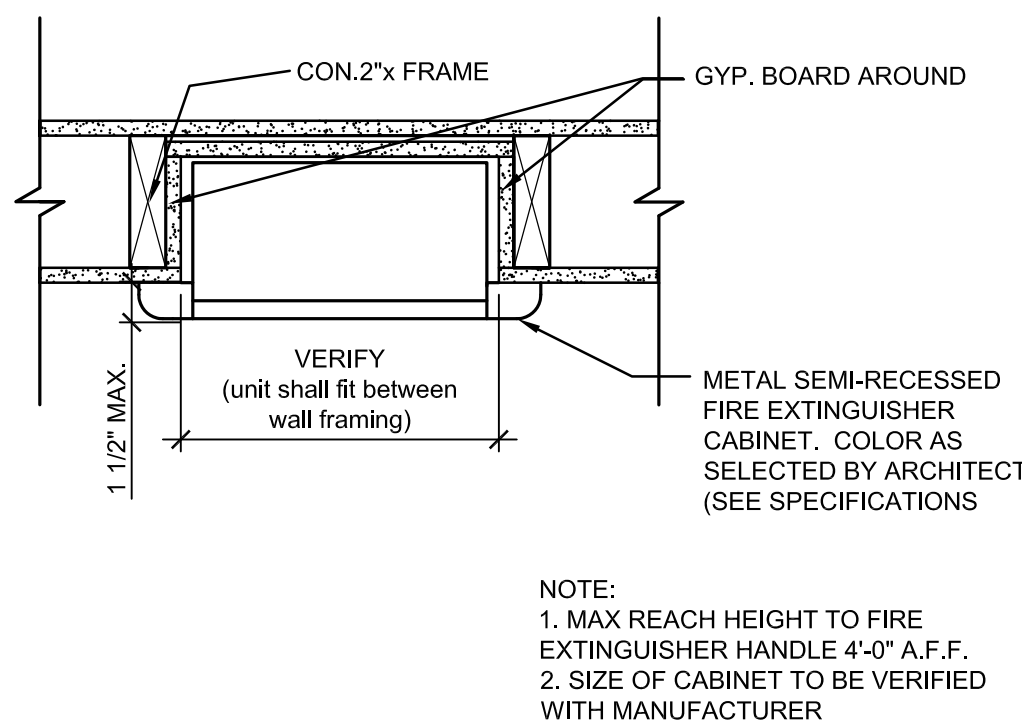
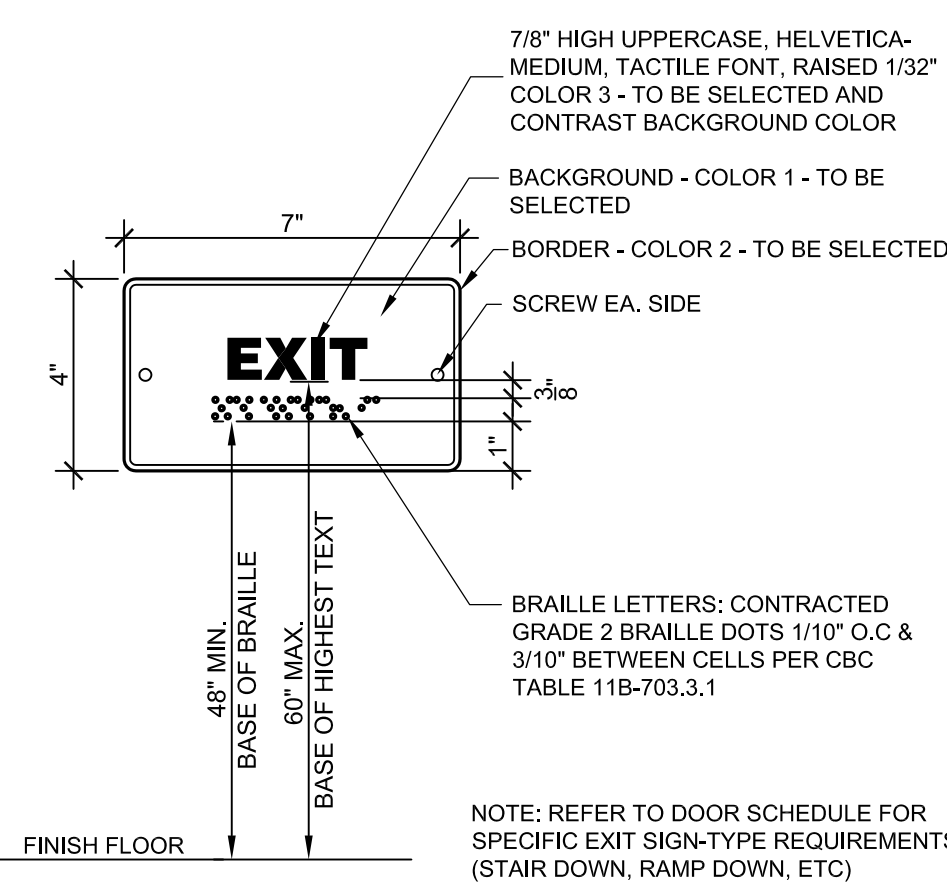
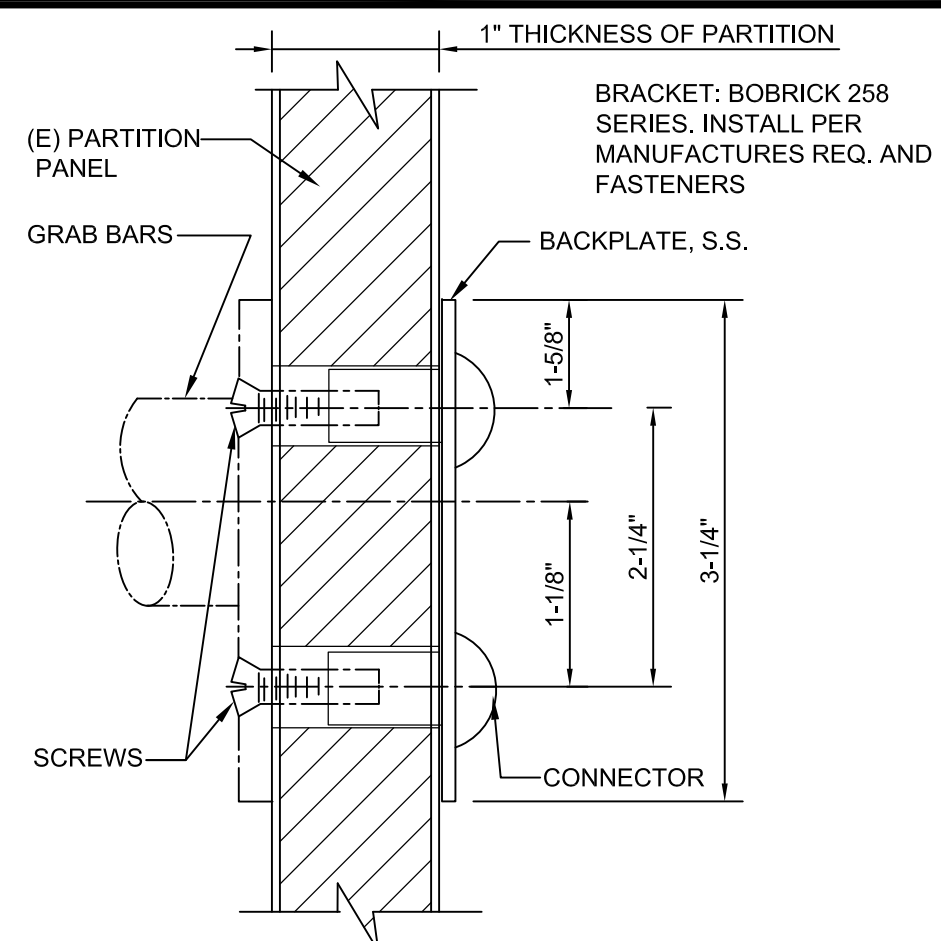
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		<div>1. CEILING SYSTEM GENERAL NOTES: 1.01 Ceiling system components shall comply with ASTM C635-07 and Section 5.1 of ASTM E580-10a. 1.02 The ceiling grid system must be rated heavy duty as defined by ASTM C635-08. 1.03 Ceiling systems. Refer to the project specifications for manufacture, model number, etc... 1.04 Seismic Wall Clip: Refer to the project specifications for manufacture, model number, etc... 1.05 Ceiling panels shall not support any light fixtures, air terminals or devices. 1.06 For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide 1/2" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide 3/4" clearance between the ceiling panel and the wall on the sides of the ceiling free to slip.</div> <div>2. MATERIALS: 2.01 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641-09a. Wire shall be #12 gage (0.106" diameter) with soft temper and minimum tensile strength = 70 ksi. 2.02 Galvanized sheet steel (including that used for metal stud and track compression struts/post) shall conform to ASTM A653-11, or other equivalent sheet steel listed in Section A2.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members 2007, including supplement 2 dated 2010 (AISI S100-07/S2-10). Material 43 mil (18 gage) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gage) and heavier shall have a minimum yield strength of 50 ksi. 2.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (Fy) of 30 ksi and minimum ultimate strength (Fu) of 48 ksi.</div> <div>3. ATTACHMENT OF HANGER AND BRACING WIRES: 3.01 Separate all ceiling hanger and bracing wires at least six (6) inches from all unbraced ducts, pipes, conduit, etc. 3.02 Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to: piping, ductwork, conduit and equipment. 3.03 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires. 3.04 Slack safety wires shall be considered hanger wires for installation and testing requirements. 3.05 Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire. (e.g. bracing wire ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.)</div> <div>4. FASTENERS AND WELDING: 4.01 Sheet metal screws shall comply with ASTM C1513-10, ASME B18.6.4-89 (R2005). Penetration of screws through joined material shall not be less than three exposed threads. 4.02 Expansion anchors shall be: Not Applicable For This Project 4.03 Power-Actuated Fasteners shall be: Not Applicable For This Project 4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member. 4.05 Power-actuated fasteners in concrete are not permitted for bracing wires. 4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post - installed anchor. 4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.</div> <div>5. TESTING: All field testing must be performed in the presence of the project inspector. 5.01 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power actuated fasteners in concrete shall be field tested for 200 lbs. in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1913A.7. 5.02 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1913A.7.</div> <div>6. LIGHT FIXTURES: 6.01 All light fixtures shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the fixture. A minimum of two screws or approved fasteners are required at each light fixture, per ASTM E580, Section 5.3.1. 6.02 Surface-mounted light fixtures shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14 gage. Rotational spring catches do not comply. A #12 gage slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when light fixtures are eight (8) feet or longer or exceed 56 lb. Maximum spacing between supports shall not exceed eight (8) feet. 6.03 Light fixtures weighing less than or equal to 10 lb. shall have a minimum of one (1) #12 gage slack safety wire connected from the fixture housing to the structure above. 6.04 Light fixtures weighing less than or equal to 10 lb. shall have a minimum of one (1) #12 gage slack safety wire connected from the fixture housing to the structure above. 6.05 Light fixtures weighing greater than 10 lb. but less than or equal to 56 lbs. may be supported directly on the ceiling runners, but they shall have a minimum of two (2) #12 gage slack safety wires connected from the fixture housing at diagonal corners to the structure above. Exception: All light fixtures greater than two by four feet weighing less than 56 lbs. shall have a #12 gage slack safety wire at each corner. 6.06 All Light fixtures weighing greater than 56 lb. shall be independently supported by not less than four (4) taut #12 gage hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four (4) taut #12 gage wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four (4) times the weight of the fixture.</div> <div>7. SERVICES WITHIN THE CEILING: 7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component. 7.02 Ceiling-mounted air terminals or other services weighing less than or equal to 20 lb. shall have one (1) #12 gage slack safety wire attached from the terminal or service to the structure above 7.03 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 lb. but less than or equal to 56 lb. shall have two (2) #12 gage slack safety wires (at diagonal corners) connected from the terminal or service to the structure above. 7.04 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 lb. shall be supported directly from the structure above by not less than four (4) taut #12 gage hanger wires attached from the terminal or service to the structure above or other approved hangers.</div> <div>8. OTHER DEVICES WITHIN THE CEILING: 8.01 All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices weighing more than 10 lbs. shall have a #12 gage slack safety wire anchored to the structure above. Devices weighing more than 20 lb. shall be supported independently from the structure above.</div>	<div></div> <div></div>	<div>12</div> <div>GLUE-UP TILE EDGE</div> <div>1 1/2" = 1'-0"</div> <div></div>	<div></div> <div>WIRES TO BE 12ga WITH MIN. 4 TIGHT TURNS IN 1-1/2" FOR BRACING/SPLAY WIRES AND 3 TIGHT TURNS IN 3" FOR HANGER WIRES, TYP.</div> <div>EXPANSION JOINTS REQUIRED AT INTERSECTIONS OF CORRIDORS, JUNCTIONS OF CORRIDORS AND LOBBIES, SIMILAR AREAS, AND CEILING AREAS OVER 2,500 SQ. FT.</div>	<div>8</div> <div>T-BAR EXPANSION JOINT</div> <div>1 1/2" = 1'-0"</div> <div></div>	<div></div> <div>HANGER WIRE, 12 GA. @ 4'-0" O.C. EA. WAY</div> <div>WIRE TO BE 12ga WITH MIN. 4 TIGHT TURNS IN 1-1/2" FOR BRACING/SPLAY WIRES AND 3 TIGHT TURNS IN 3" FOR HANGER WIRES, TYP.</div>	<div>4</div> <div>UPPER WIRE CONNECTION</div> <div>3" = 1'-0"</div> <div></div>	<div>19</div> <div></div> <div></div> <div></div>	<div>11</div> <div>8'-0" x 12'-0" Brace Assembly Spacing</div> <div>6" = 1'-0"</div> <div><div>LATERAL BRACE ASSEMBLY SPACING</div><table><tr><th>Design Spectral Acceleration Parameter Sds</th><th>Brace Assembly Spacing</th></tr><tr><td>Less than or equal to 1.15</td><td>12"x12" Full building height</td></tr><tr><td>Greater than 1.15 and less than or equal to 1.73</td><td>8"x12" for z/h greater than 0.5 12"x12" for z/h less than or equal to 0.5</td></tr><tr><td>Greater than 1.73</td><td>8"x8" for z/h greater than 0.5 8"x12" for z/h less than or equal to 0.5</td></tr></table><p>Per ASCE 7-10, Section 13.3.1: z = height in structure of point of attachment of ceiling with respect to the base h = average roof height of the structure with respect to the base</p><p>There shall be a brace assembly a distance of not more than one half of the above spacing from each surrounding wall, expansion joint and at the edges of any ceiling vertical offset.</p></div>	Design Spectral Acceleration Parameter Sds	Brace Assembly Spacing	Less than or equal to 1.15	12"x12" Full building height	Greater than 1.15 and less than or equal to 1.73	8"x12" for z/h greater than 0.5 12"x12" for z/h less than or equal to 0.5	Greater than 1.73	8"x8" for z/h greater than 0.5 8"x12" for z/h less than or equal to 0.5	<div>7</div> <div>MAIN RUNNER SPLICE DETAIL</div> <div>1 1/2" = 1'-0"</div> <div></div>	<div>3</div> <div>UPPER WIRE CONNECTION</div> <div>3" = 1'-0"</div> <div></div>	<div>18</div> <div></div> <div></div> <div></div>	<div>10</div> <div>LATERAL BRACE SPACING (COMPRESSION STRUT)</div> <div>1 1/2" = 1'-0"</div> <div><div>SUSPENDED GRID NOTES:</div><div>1. Ceiling Grid Classification: Heavy Duty per ASTM C635</div><div>2. All main runners to be heavy duty, all cross runners supporting light fixtures, air terminals, or other cross runners shall be considered main runners and shall also be heavy duty.</div><div>3. Ceiling wires to be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #12 gage (0.106" dia.) with softer temper and minimum tensile strength = 70ksi.</div><div>MANUFACTURER'S DATA:</div><div>1. Armstrong Prelude XL & Prelude XL Fireguard, 15/16" face, exposed tee system - ICC-ESR-1308 Main Runners: T301 / R301 - Heavy Duty Cross Runners: XL73XX / R33XX (XX for length) Runner Splice Detail: Use standard clip & screws - no detail referenced</div><div>2. USG Donn DX/DXL standard & fire rated, 15/16" face, exposed tee system - ICC-ESR-1222 Main Runners: DX/DXL26 - Heavy Duty Cross Runners: DX/DXL216 & DX/DXL422 & 424 Runner Splice Detail: Use standard clip & screws - no detail referenced</div><div>3. Chicago Metallic / Rockfon, 1200/1250 standard & fire rated, 15/16" face, exposed tee - ICC-ESR-2631 Main Runners: 200.01H - Heavy Duty (270.01H at fire rated) Cross Runners: 12XX (XX for length) Runner Splice Detail: Use standard clip & screws - no detail referenced</div></div>	<div>6</div> <div>T-BAR PERIMETER - FIXED END</div> <div>1" = 1'-0"</div> <div></div> <div>NO MORE THAN TWO ADJACENT WALLS CAN BE FIXED.</div>	<div>2</div> <div>COMPRESSION STUD</div> <div>3" = 1'-0"</div> <div></div>	<div>17</div> <div></div> <div></div> <div></div>	<div>13</div> <div>CEILING SYSTEM NOTES</div> <div>NTS</div> <div></div>	<div>9</div> <div>GRID INFORMATION (FOR ADDITIONAL INFO - SEE SPECS)</div> <div>1 1/2" = 1'-0"</div> <div></div>	<div>5</div> <div>T-BAR PERIMETER - FREE END</div> <div>1" = 1'-0"</div> <div></div>	<div>1</div> <div>COMPRESSION STRUT</div> <div>1 1/2" = 1'-0"</div> <div></div>	<div>CD</div> <div>A-12.9</div>
Design Spectral Acceleration Parameter Sds	Brace Assembly Spacing																													
Less than or equal to 1.15	12"x12" Full building height																													
Greater than 1.15 and less than or equal to 1.73	8"x12" for z/h greater than 0.5 12"x12" for z/h less than or equal to 0.5																													
Greater than 1.73	8"x8" for z/h greater than 0.5 8"x12" for z/h less than or equal to 0.5																													



ACCESSORY DESCRIPTION	ADULT DIMENSIONS (INCHES)	ELEMENTARY DIMENSIONS (INCHES)	KINDERGARTEN DIMENSIONS (INCHES)
TOILET, CENTERING FROM WALL	17-18	15	12
TOILET, SEAT HEIGHT (TOP OF SEAT)	17-19	15-17	11-12
TOP OF GRAB BAR HEIGHT	33-36	25-27	18-20
TOILET PAPER IN FRONT OF TOILET	7-9	7-9	7-9
NAPKIN DISPOSAL IN FRONT OF TOILET	OPENING 19 IN.		
DISPENSER OR MIRROR HEIGHT	40 MAX	36 MAX	32 MAX
LAVATORY/SINK TOP HEIGHT	34 MAX	29 MAX	24 MAX
LAVATORY/SINK KNEE CLEARANCE	27 MIN.	24 MIN	19 MIN
URINAL LIP HEIGHT	17 MAX	15 MAX	13 MAX
URINAL FLUSH HANDLE HEIGHT	44 MAX	37 MAX	32 MAX
DRINKING FOUNTAIN BUBBLER HEIGHT	36 MAX	32 MAX	30 MAX
DRINKING FOUNTAIN KNEE CLEARANCE	27 MIN	24 MIN	22 MIN
RAMP/STAIR HANDRAIL HEIGHT	34-38	27	22



Project Title

TOYON ELEMENTARY
SCHOOL
995 BARD STREET
SAN JOSE, CA 95127
FLEXIBLE INSTRUCTIONAL
SPACE

Client

BERRYESSA UNION SCHOOL DISTRICT
1376 PIEDMONT ROAD
SAN JOSE, CA 95132

No	Revisions/Submissions	Date
	DSA Back-Check	10.17.18

Drawing Title

SPECIALTY DETAILS

Project No. 1711	Date August 6, 2018
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Regulatory Agency Approval

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPL 01-117713

1000

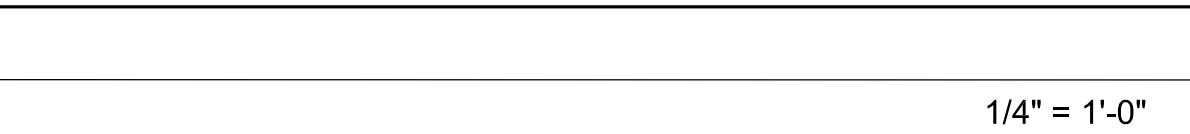
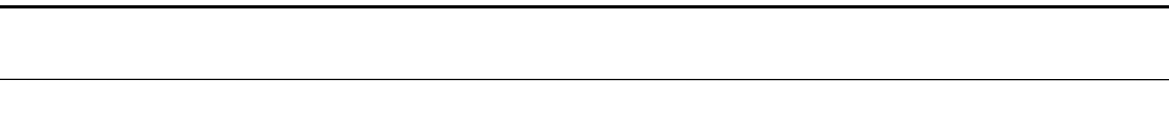
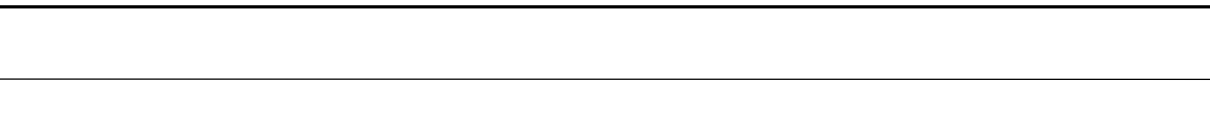
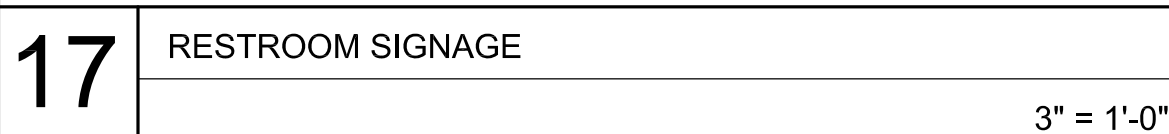
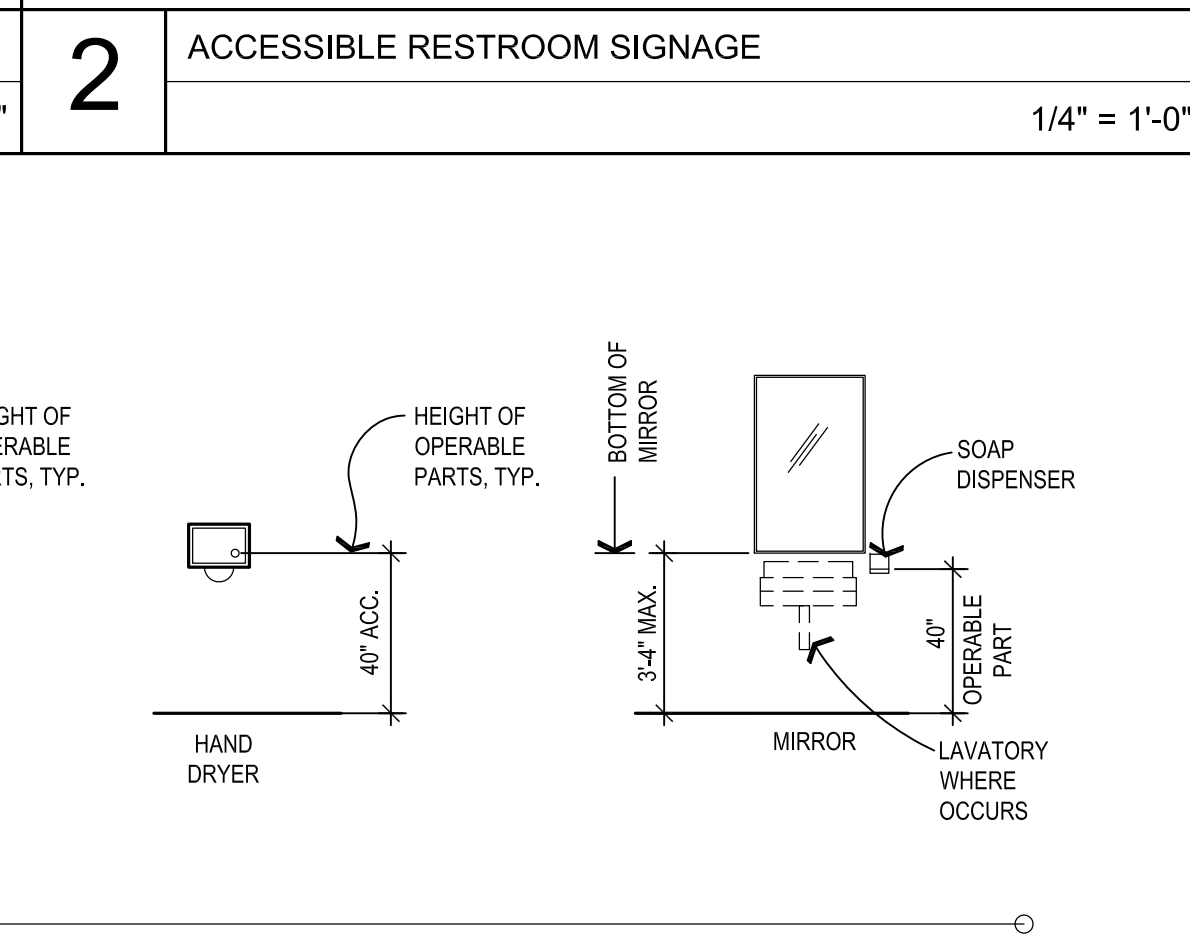
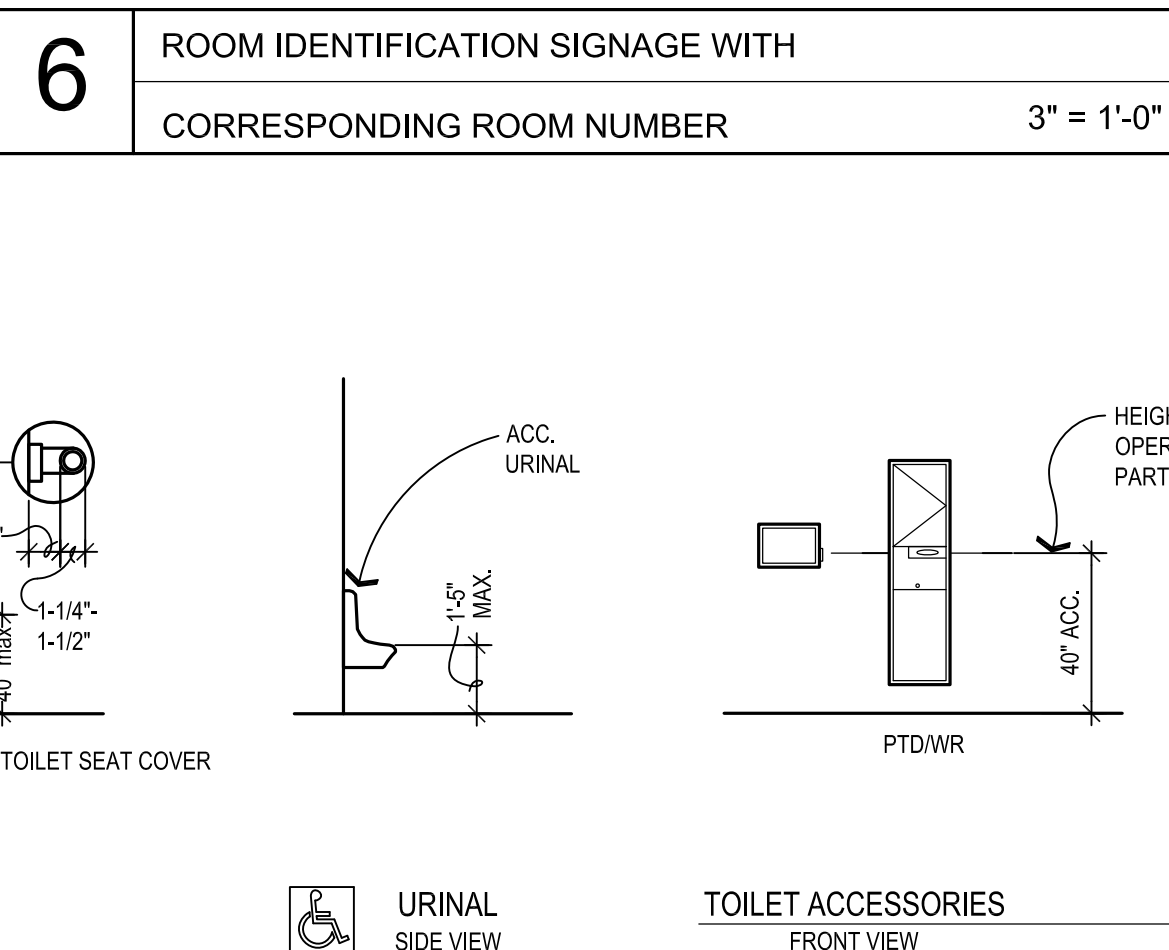
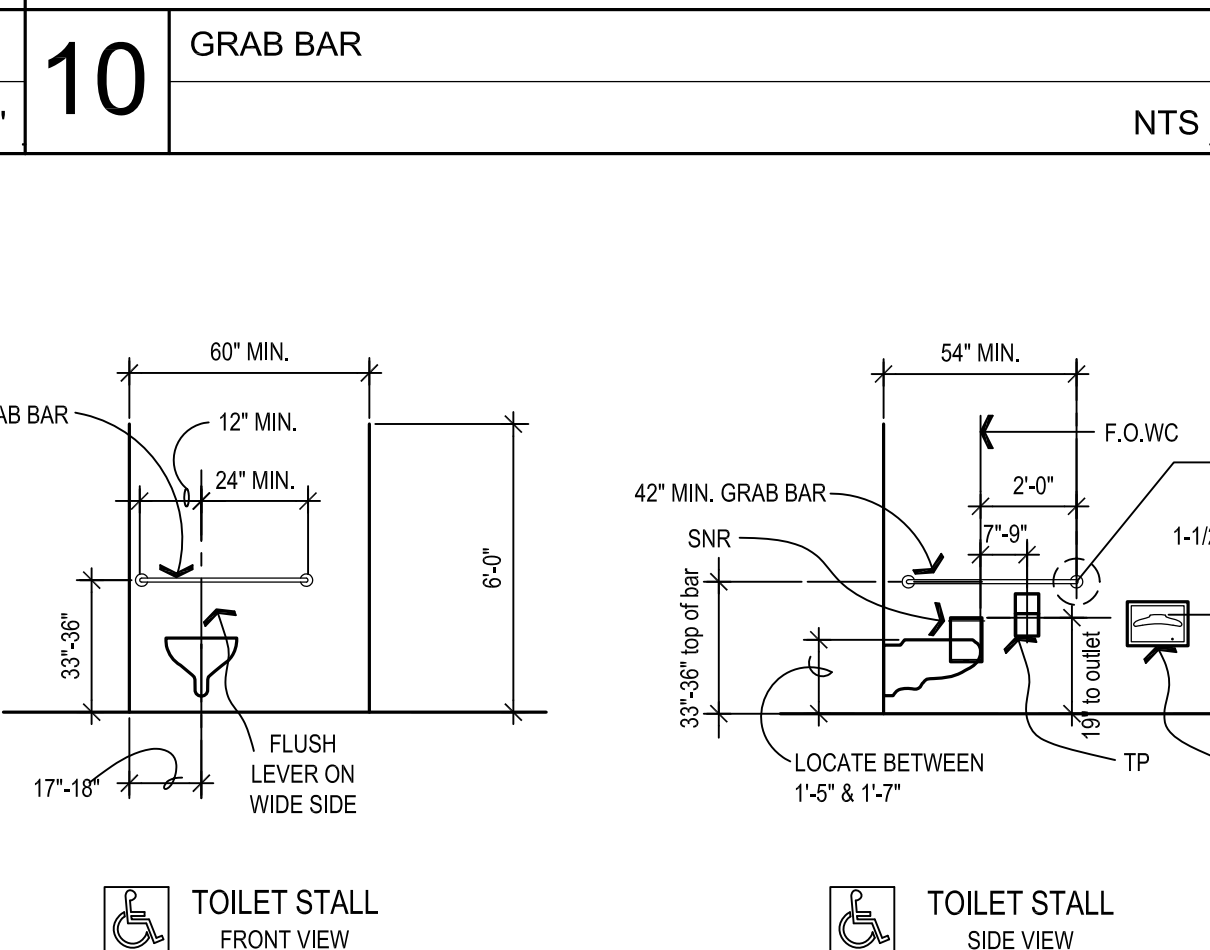
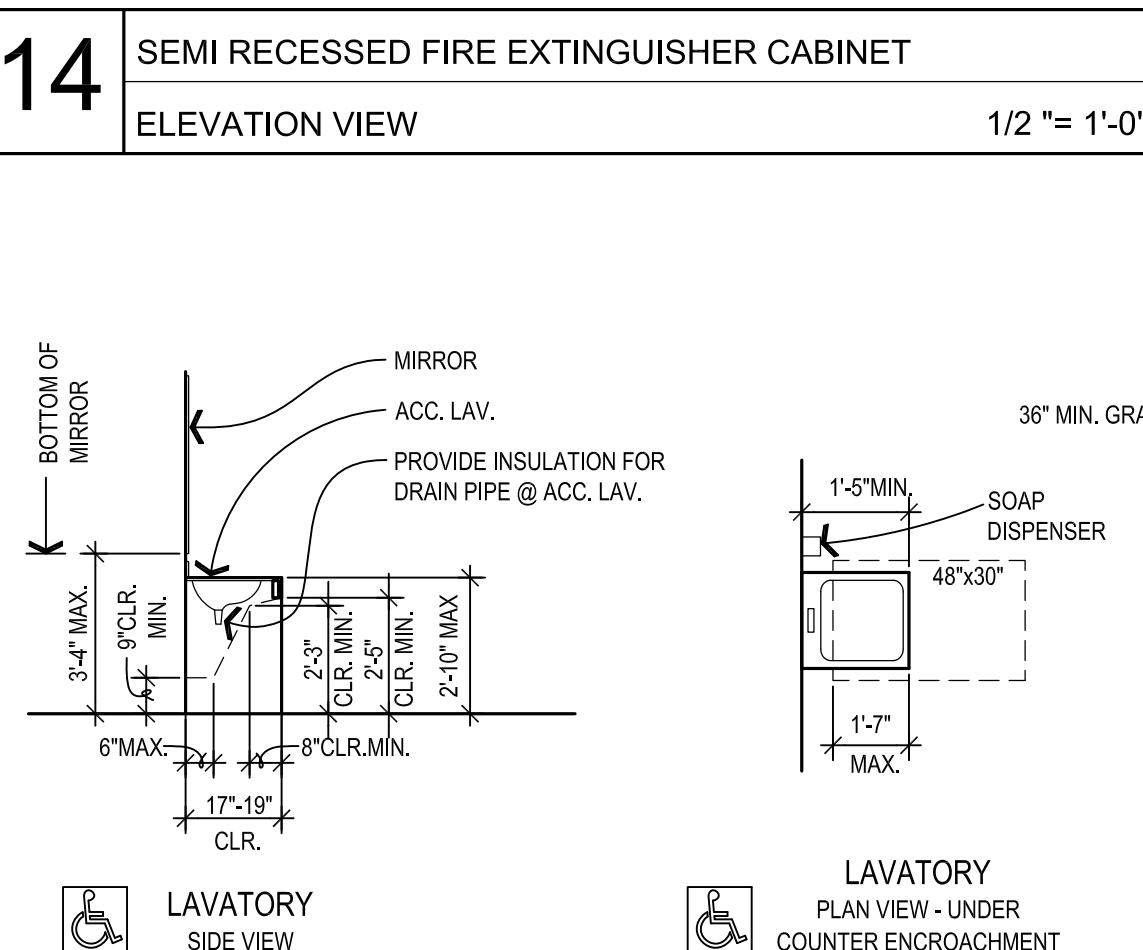
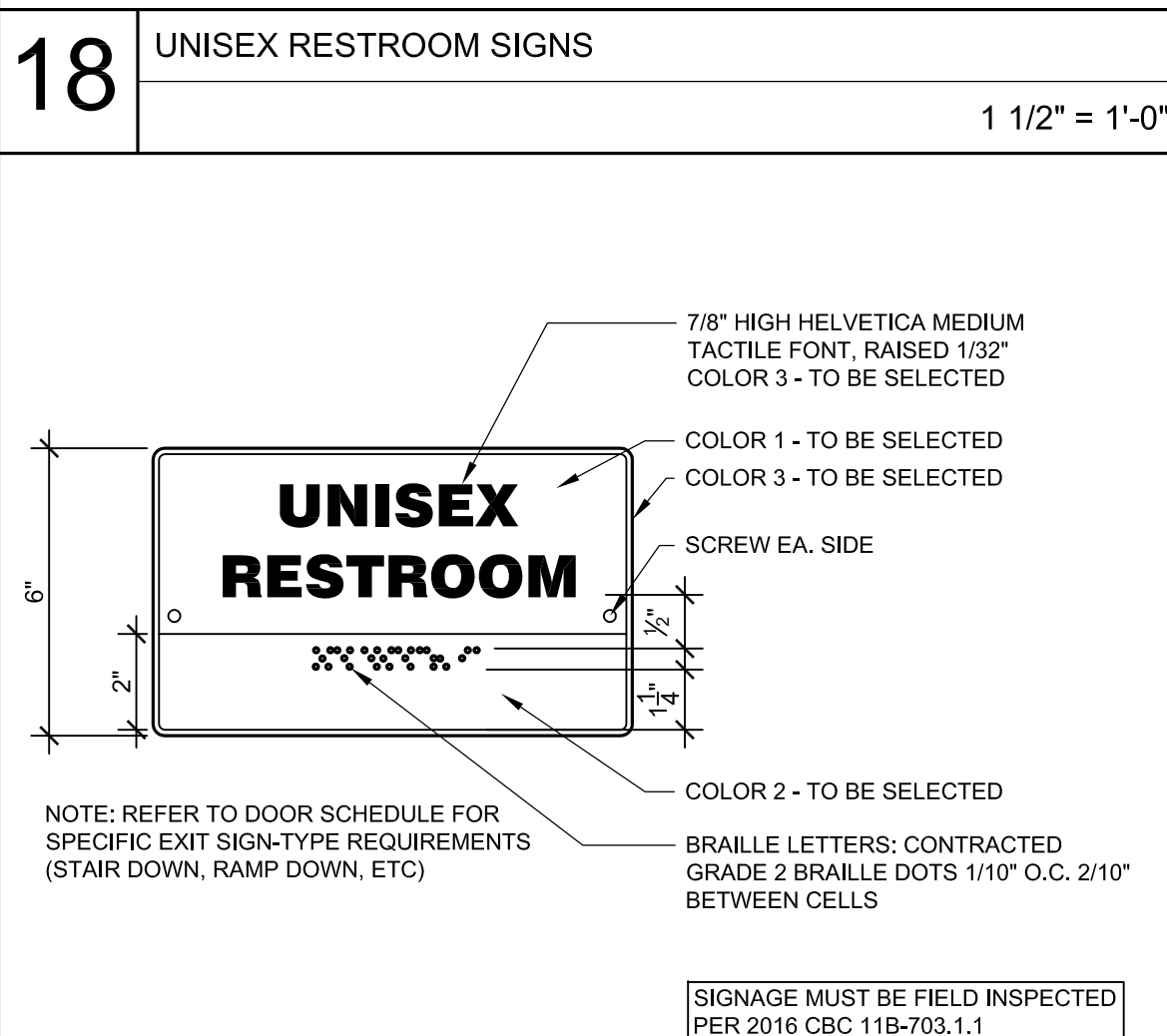
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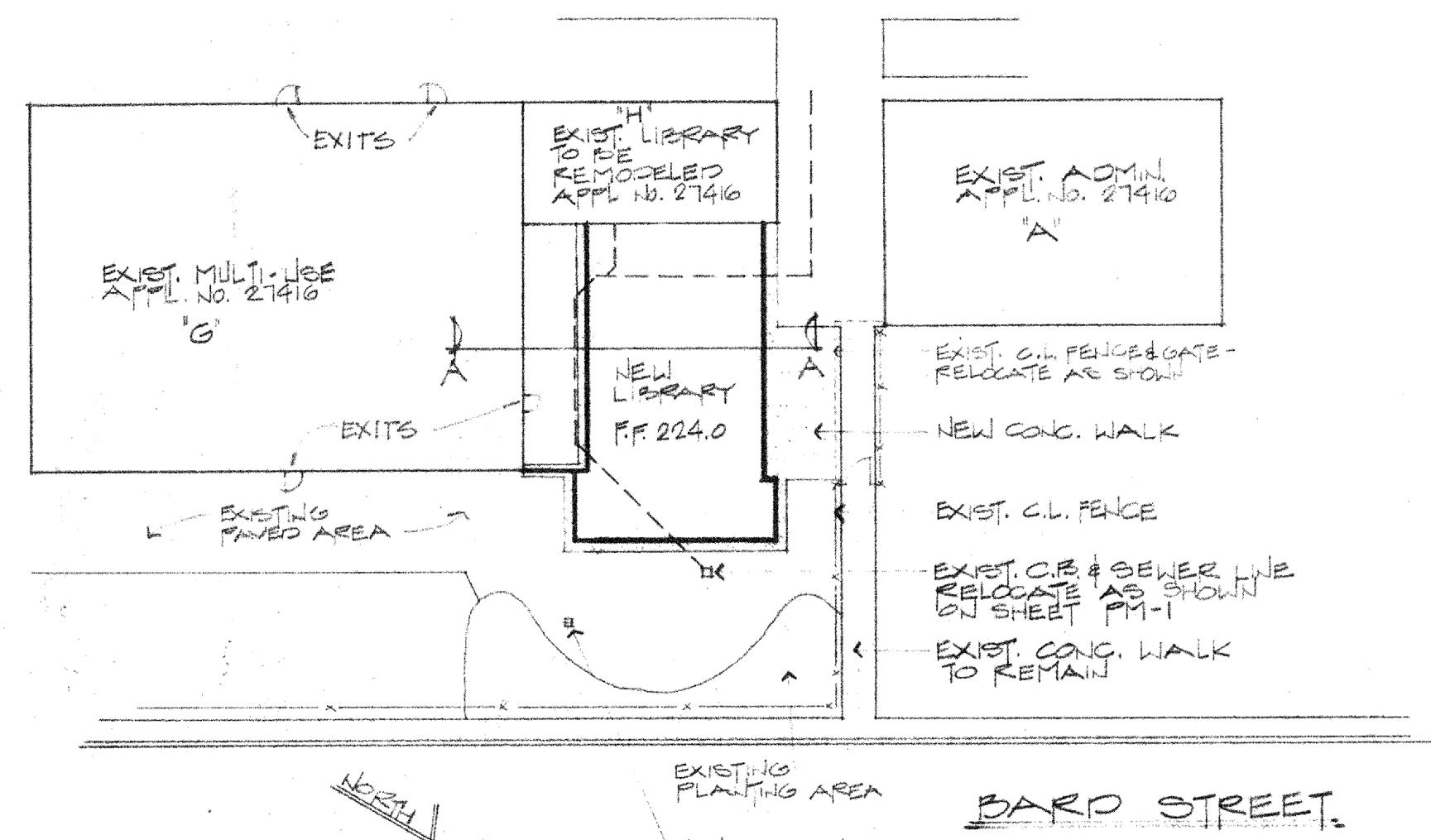
CD

Drawing Number

A-12.10



NOTE:
REMOVE EXIST. AC. PAVING
1" CONC. BE CREATING
PATCH AS NECESSARY



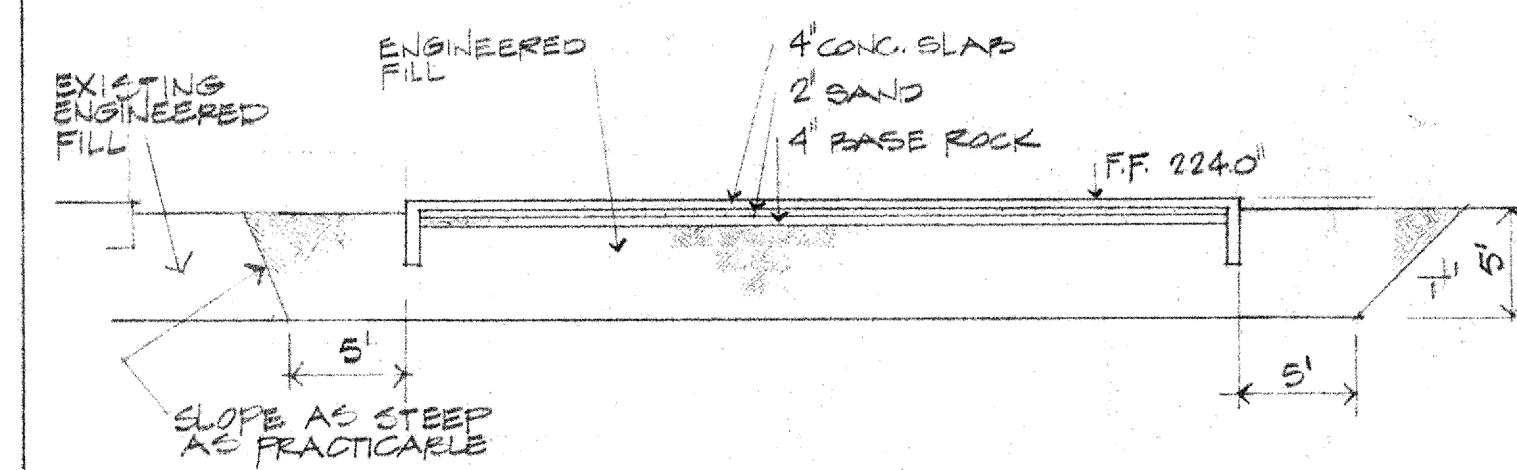
SITE PLAN 1"=30'-0"

EXISTING MULTI-USE
GROUP B-2
TYPE V - 1 HOUR
SINGLE STORY
MAX HEIGHT 18'-0"
AREA - 6800 SQ. FT.

NEW LIBRARY ADDITION
GROUP C
TYPE V - 1 HOUR
SINGLE STORY
MAX HEIGHT 15'-0"
AREA - 3200 SQ. FT.
(INCLUDES REMODELED AREA)

TOTAL BUILDING AREA 9500 SQ. FT.
ALLOWABLE AREA : 7900 X 1.23 = 10500

BUILDING ANALYSIS



GRADING SECTION A-A

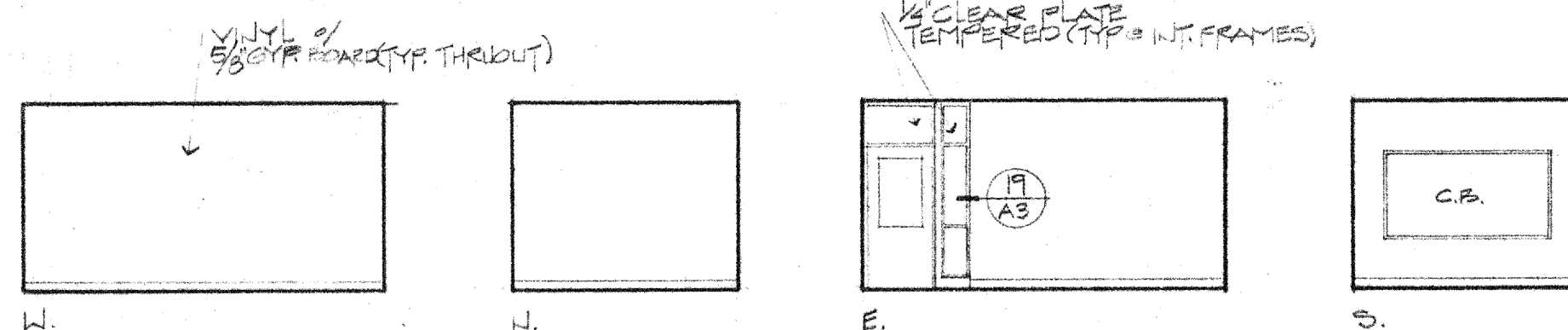
- (23) ROOM NO
- (16) DOOR NO
- PC PREFINISHED CABINET
- PM PREFINISHED MOBILE CABINET
- (2) PLAN NOTE NO
- FACE DIMENSION
- CENTERLINE DIMENSION
- (B) SECTION NUMBER
- (A2) SHEET NUMBER (WHERE DRAWN)
- (7) DETAIL NUMBER
- (A2) SHEET NUMBER (WHERE DRAWN)

NOTES & LEGEND

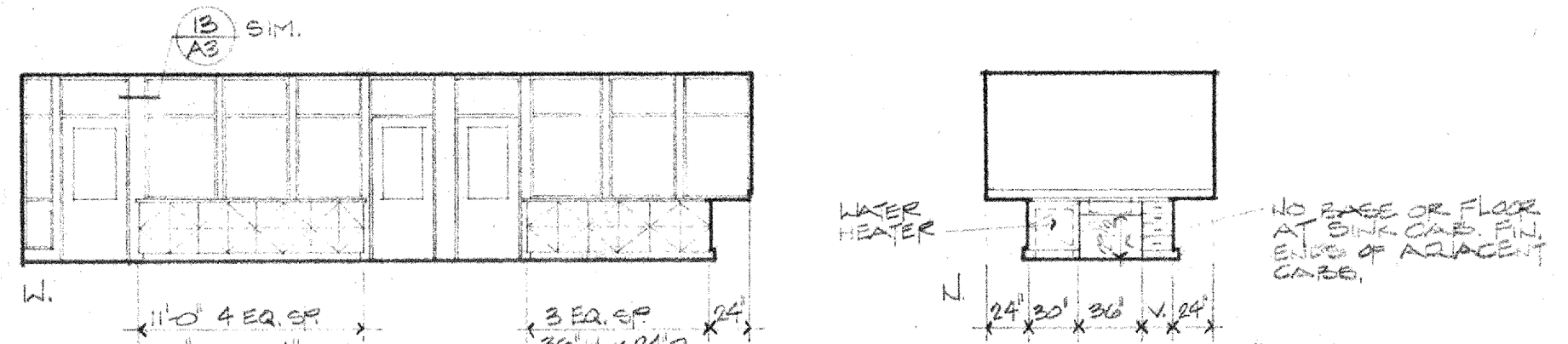
- A 1 TITLE SHEET, SITE PLAN, FLOOR PLAN, CEILING PLAN, INTERIOR ELEVATIONS
- A 2 EXTERIOR ELEVATIONS, 1/2 SECTIONS, 3/4 SECTIONS, DETAILS
- A 3 DETAILS
- S 1 GENERAL NOTES, TYPICAL DETAILS
- S 2 FOUNDATION & ROOF FRAMING PLANS, FOUNDATION DETAILS
- S 3 STRUCTURAL DETAILS
- PM 1 FLOOR & ROOF PLANS
- PM 2 DETAILS & SECTIONS
- E 1 SITE PLAN, LIGHTING & POWER FLOOR PLANS, SCHEDULES & DETAILS

DRAWING INDEX

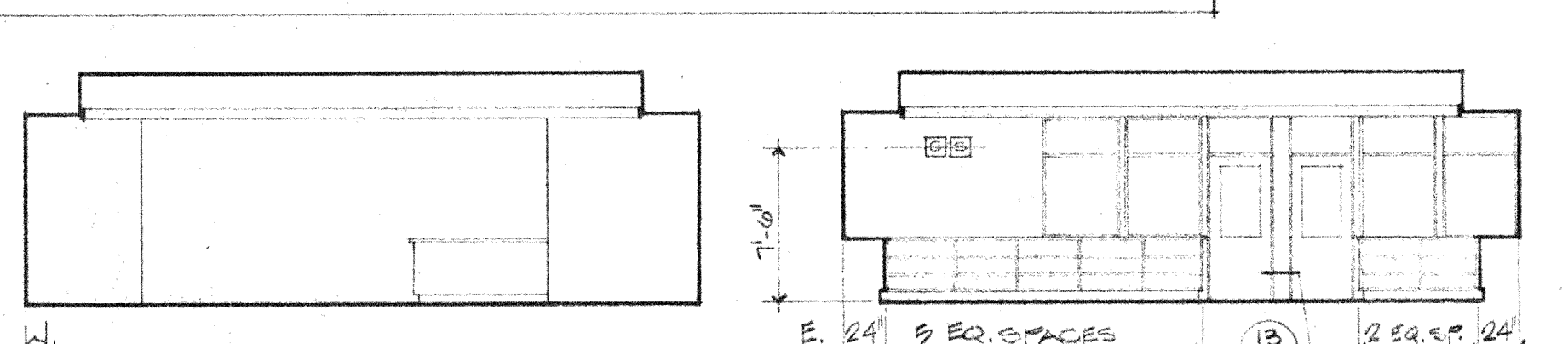
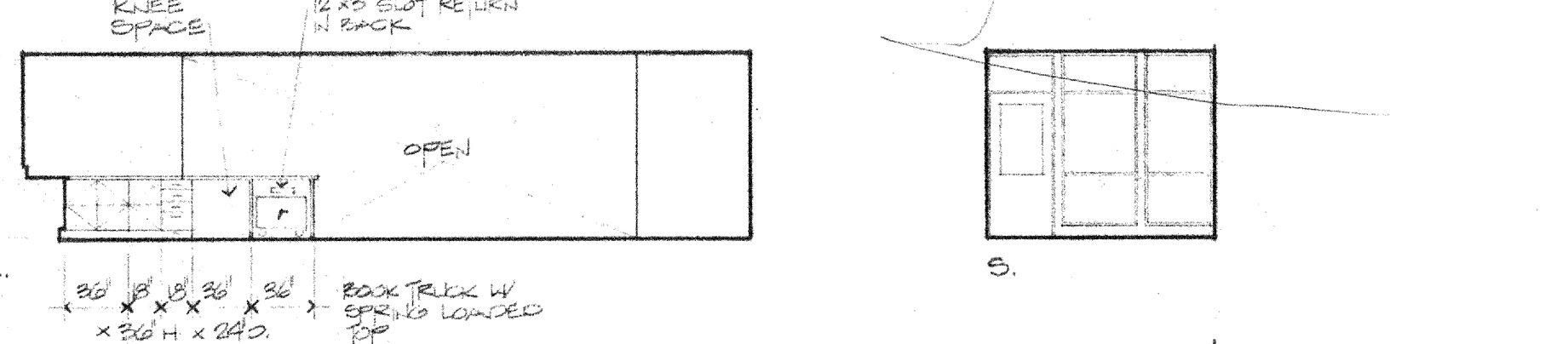
AREA MAP (PORTION OF NORTHEAST SAN JOSE)



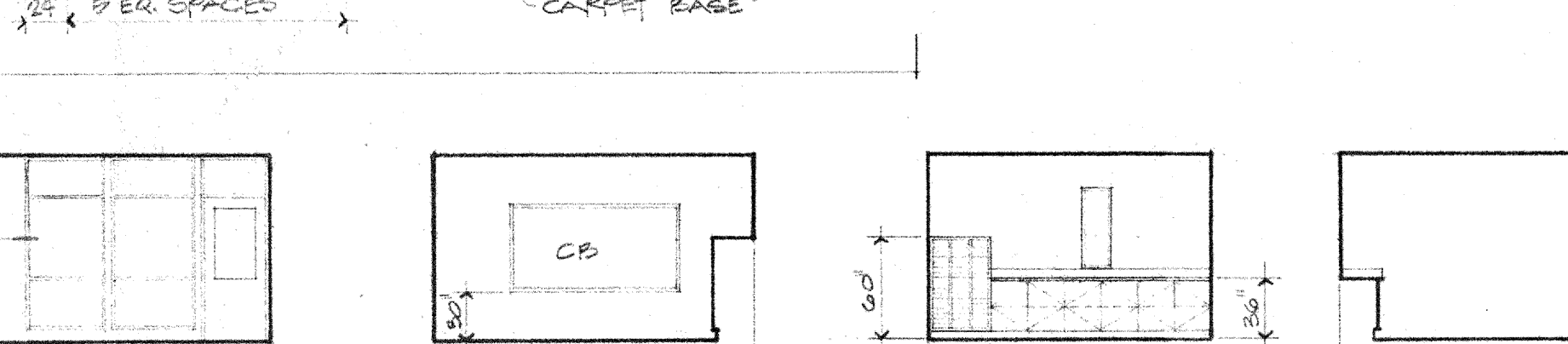
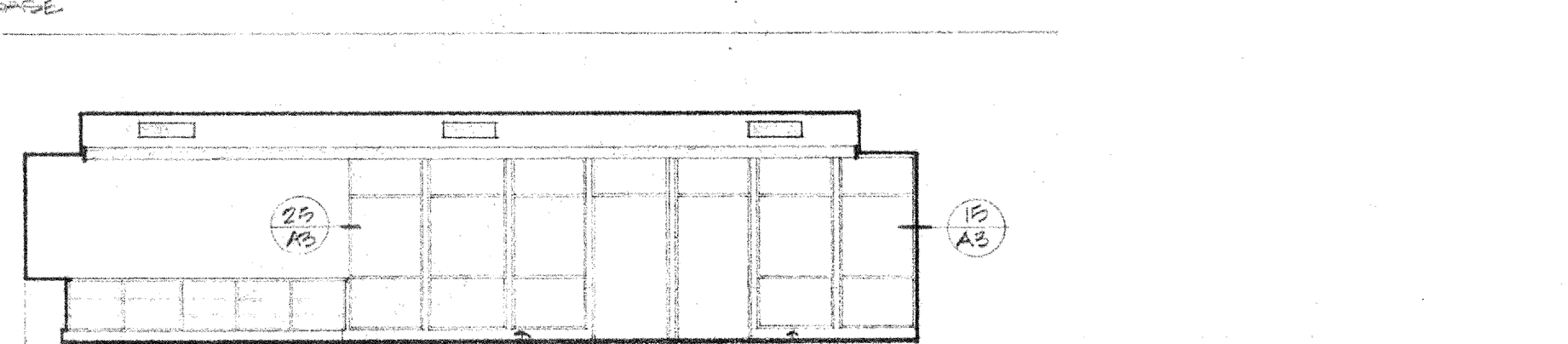
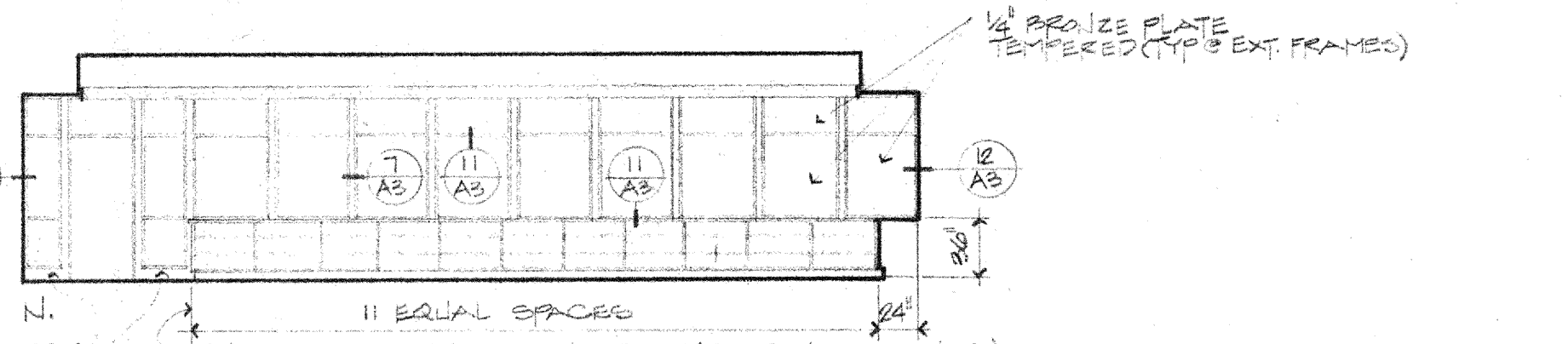
1 CONF/OFFICE



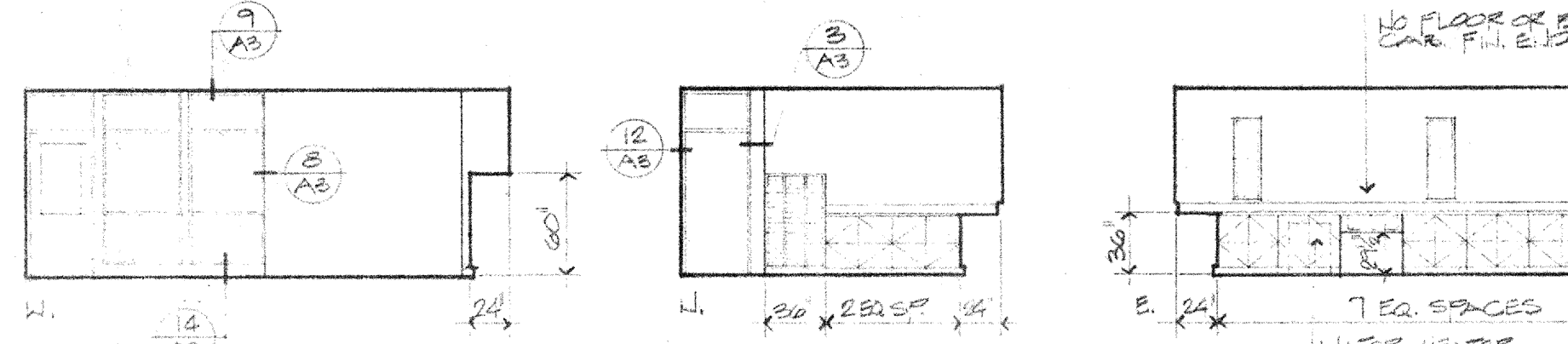
5 CHECK OUT



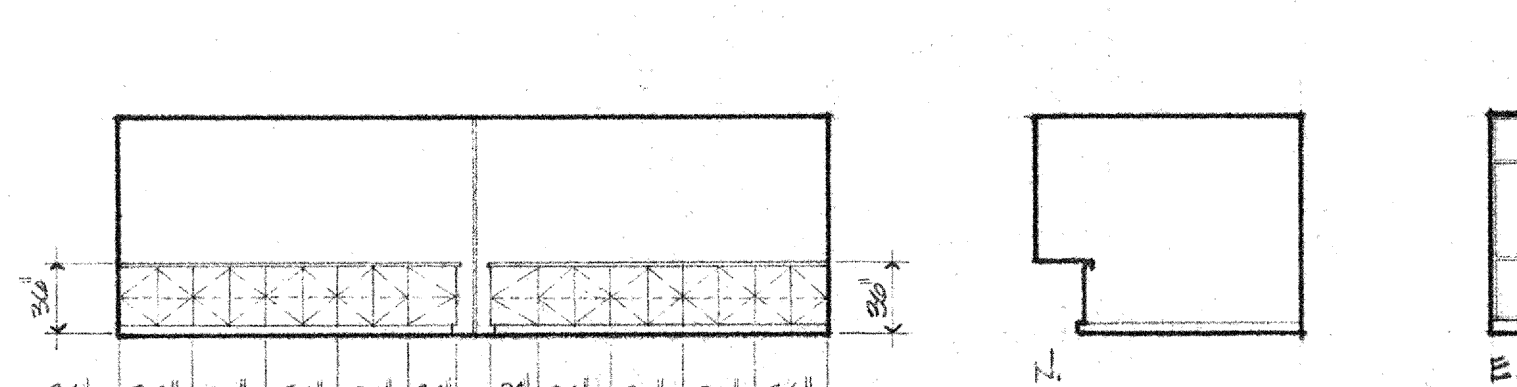
6 LIBRARY



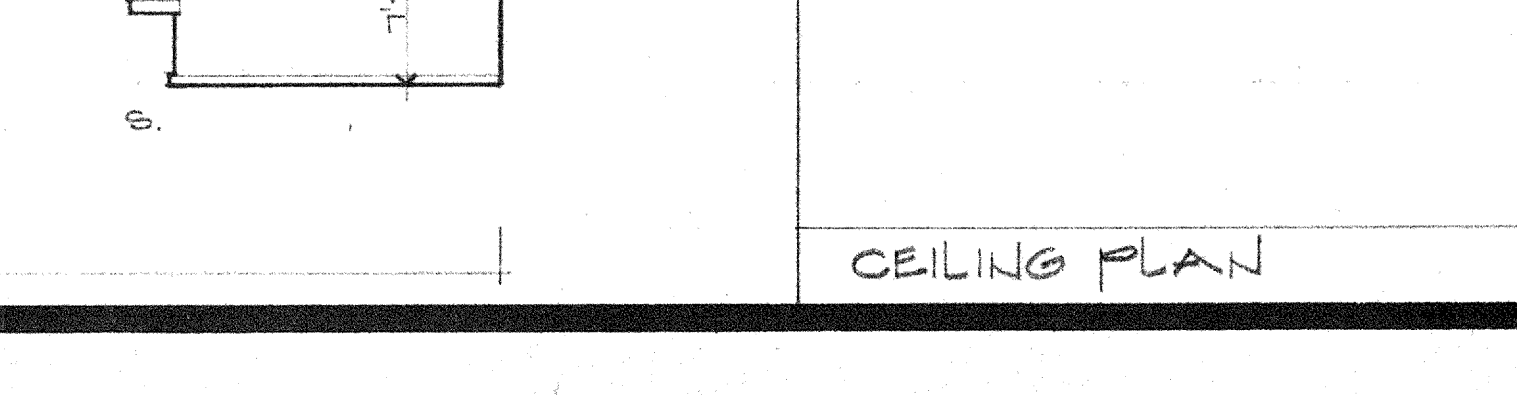
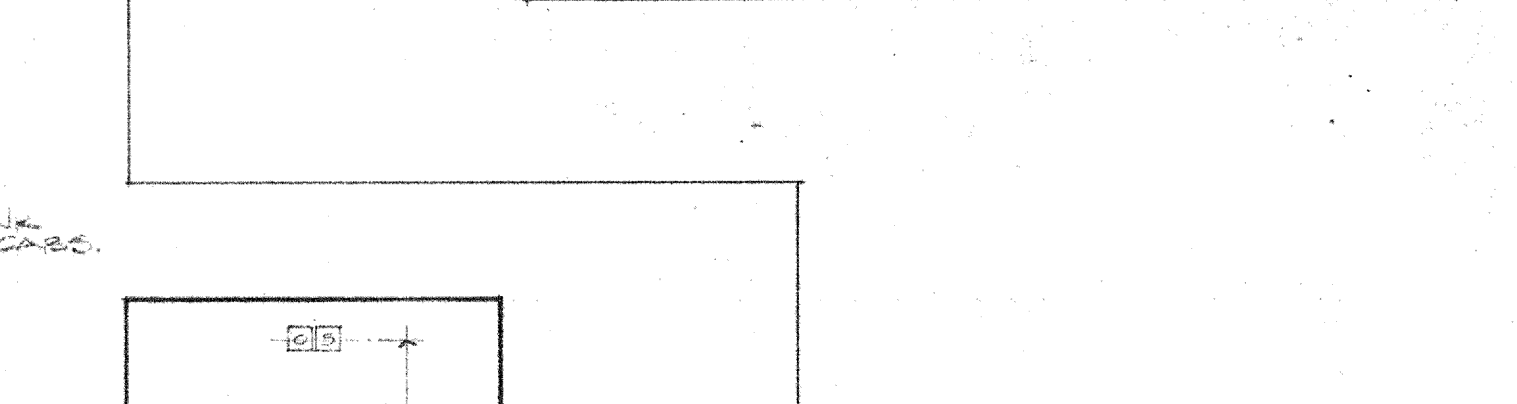
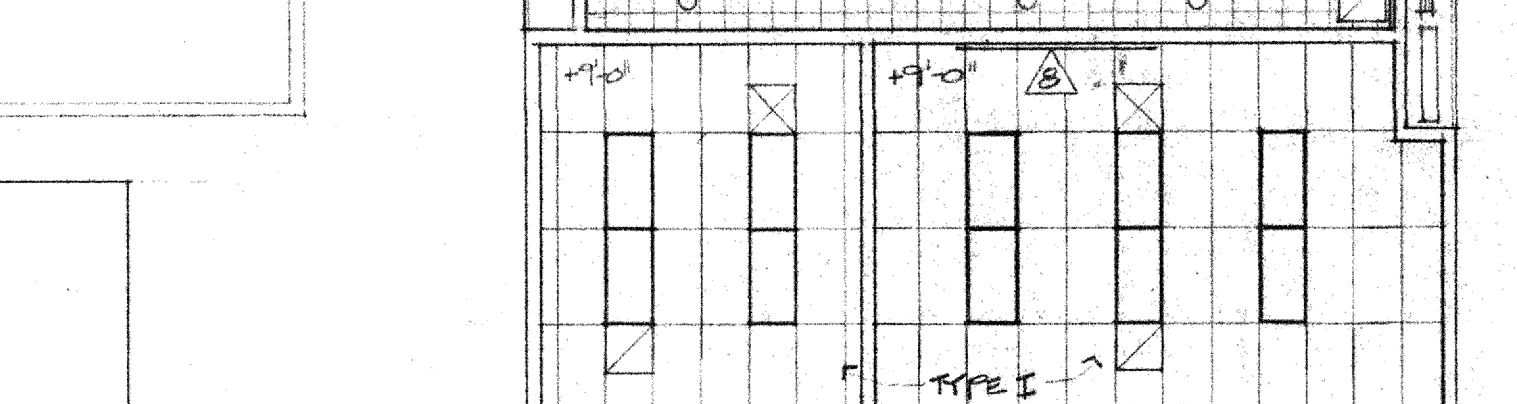
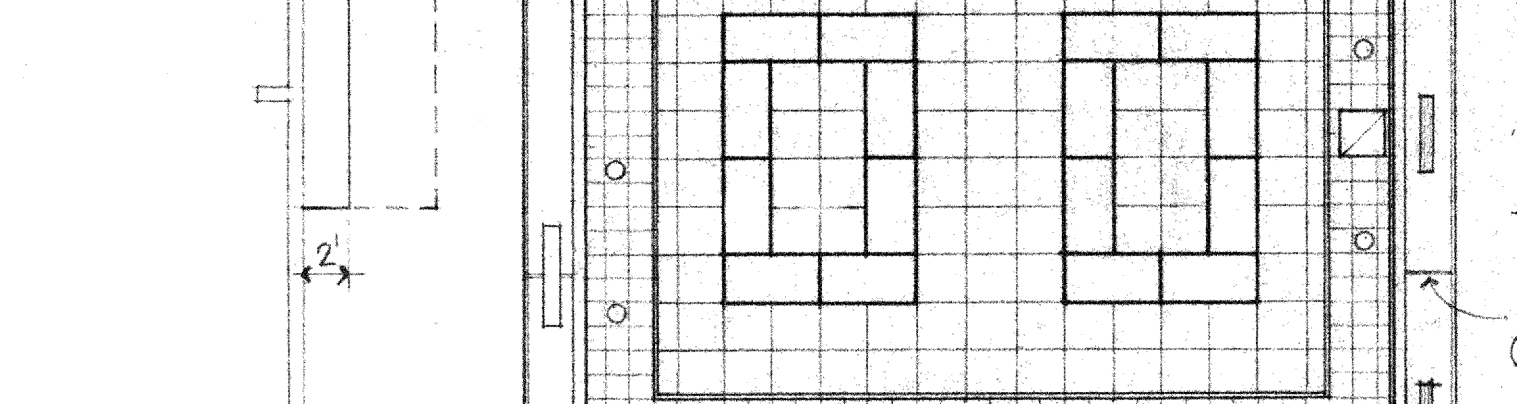
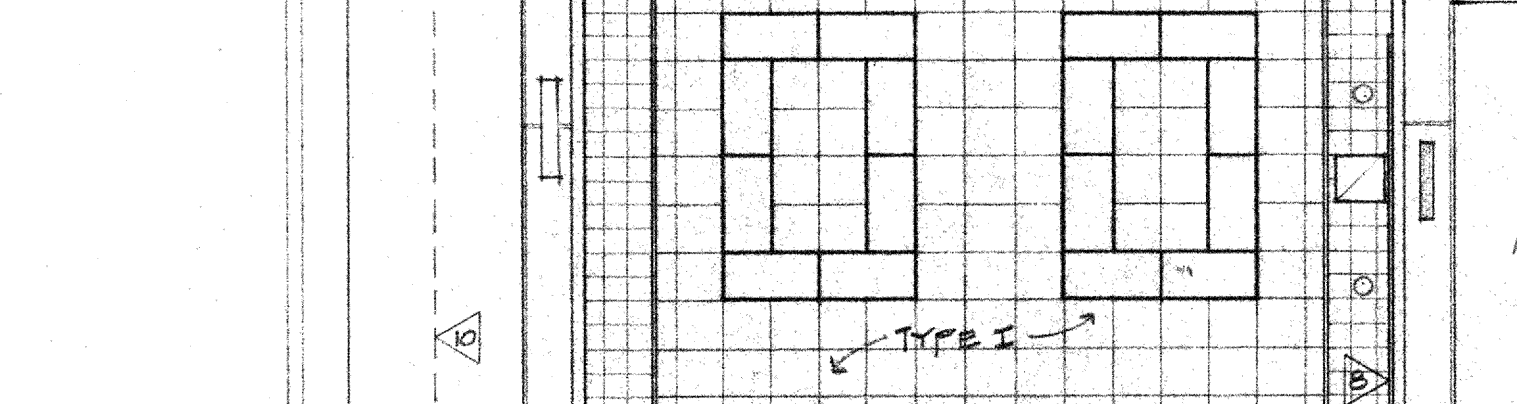
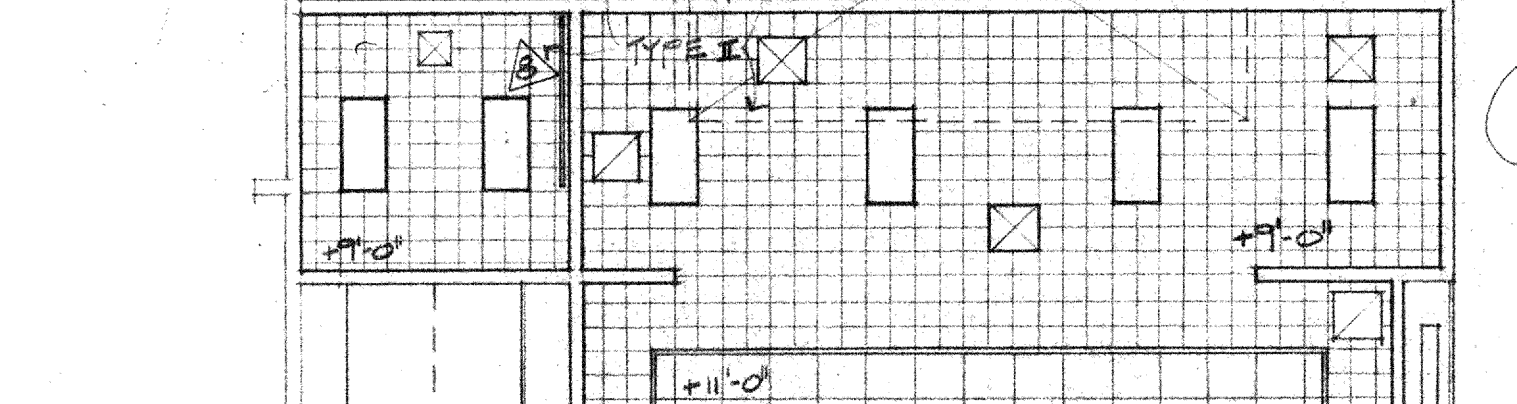
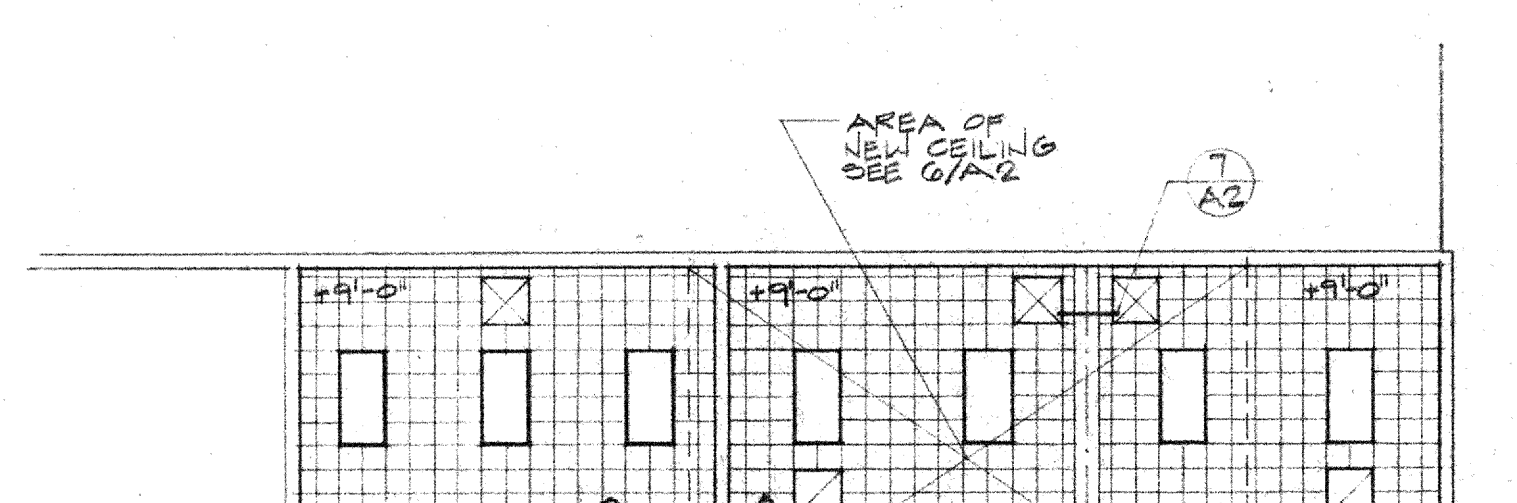
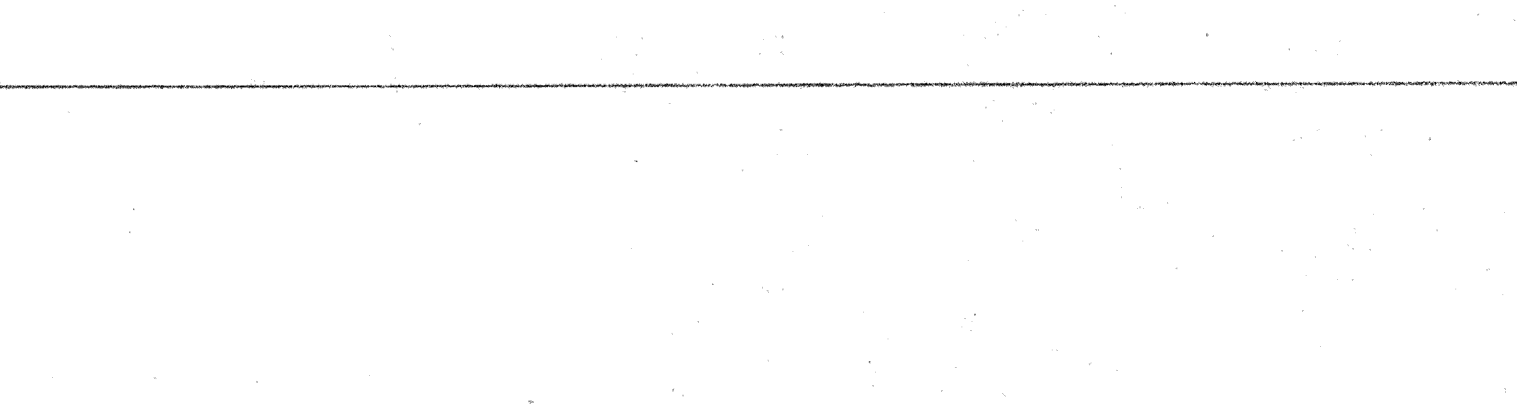
7 READING SPECIALIST



8 LEARNING DISABILITY



2 OFFICE 3 RESOURCE OFFICE

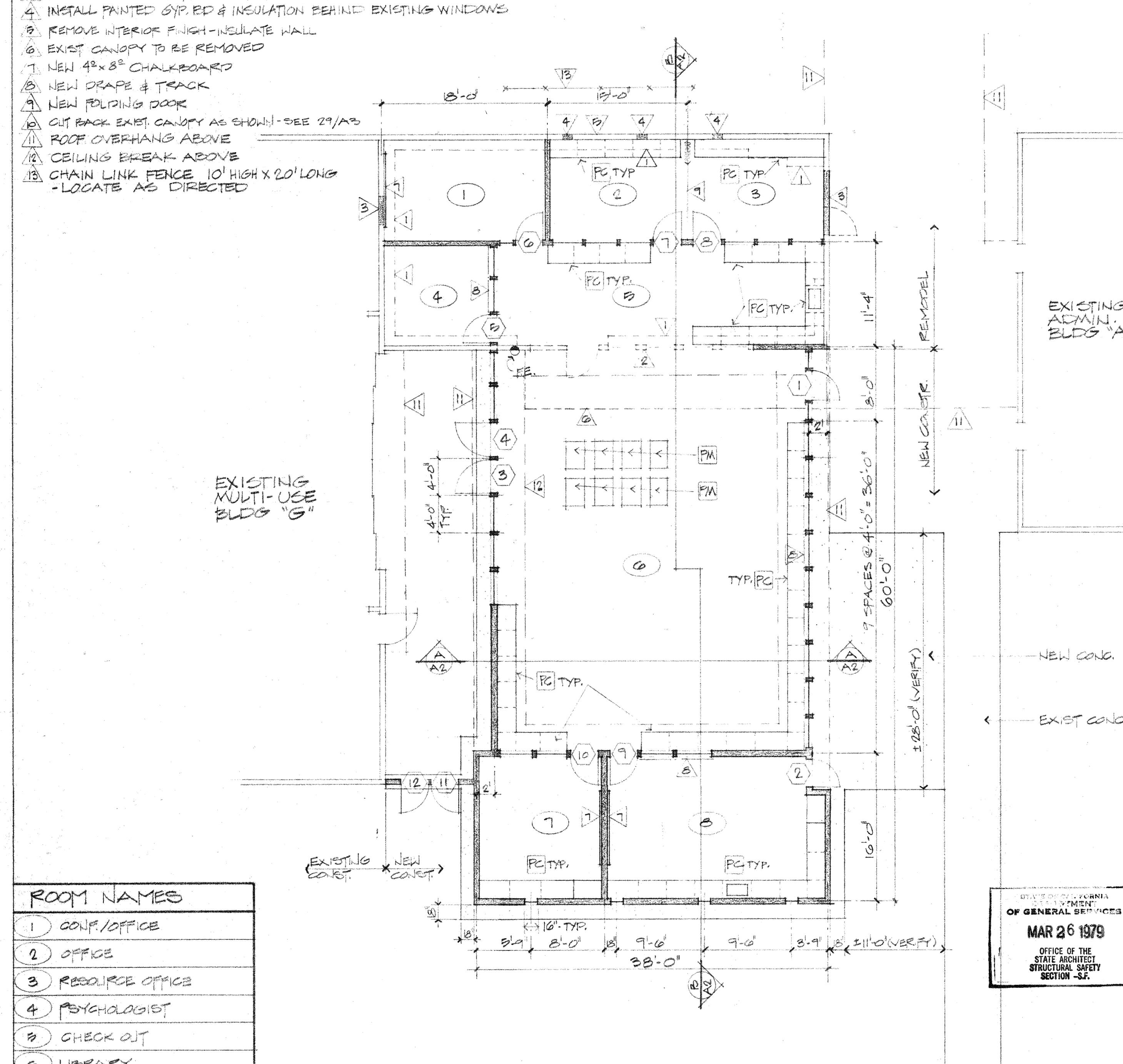


CEILING PLAN

PLAN NOTES

- 1. EXIST. CASEWORK TO BE REMOVED
- 2. EXIST. CONSTRUCTION TO BE REMOVED
- 3. REMOVE EXIST. DOOR & FRAME - PATCH TO MATCH
- 4. INSTALL PAINTED GYP. RD & INSULATION BEHIND EXISTING WINDOWS
- 5. REMOVE INTERIOR FINISH-INSULATE WALL
- 6. EXIST. CANOPY TO BE REMOVED
- 7. NEW 42" X 8" CHALKBOARD
- 8. NEW DRAPE & TRACK
- 9. NEW FOLDING DOOR
- 10. CUT BACK EXIST. CANOPY AS SHOWN-SEE 29/A2
- 11. ROOF OVERHANG ABOVE
- 12. CEILING BREAK ABOVE
- 13. CHAIN LINK FENCE 10' HIGH X 20' LONG - LOCATE AS DIRECTED

NOTES:
- ALL FLOORS CARPETED



ROOM NAMES

- 1 CONF/OFFICE
- 2 OFFICE
- 3 RESOURCE OFFICE
- 4 PSYCHOLOGIST
- 5 CHECK OUT
- 6 LIBRARY
- 7 READING SPECIALIST
- 8 LEARNING DISABILITY

FLOOR PLAN

OFFICE OF THE
STATE ARCHITECT
MAR 26 1979
OFFICE OF THE
STATE ARCHITECT
STRUCTURAL SAFETY
SECTION - 32

BUILDING CODE AND STANDARDS:
2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, (PART 1, TITLE 24, C.C.R.)
2016 CALIFORNIA BUILDING CODE VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR)
2016 CALIFORNIA ELECTRICAL CODE (CEC), (PART 3, TITLE 24, C.C.R.
2016 CALIFORNIA MECHANICAL CODE (CMC), (PART 4, TITLE 24, C.C.R.
2016 CALIFORNIA PLUMBING CODE (CPC), (PART 5, TITLE 24, C.C.R.)
2016 CALIFORNIA ENERGY CODE, (PART 6, TITLE 24, C.C.R.)
2016 CALIFORNIA FIRE CODE , (PART 9 & 12, TITLE 24, C.C.R.)
2016 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

SEISMIC LATERAL SUPPORT NOTE
LATERAL SUPPORT FOR DUCTS AND PIPING SHALL COMPLY WITH THE LATEST EDITION OF "SMACNA" "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING SYSTEMS.
CONTRACTOR SHALL RETAIN A CALIFORNIA REGISTERED PROFESSIONAL STRUCTURAL ENGINEER TO PREPARE SEALED (STAMPED) DETAILS AND CALCULATIONS FOR SEISMIC RESTRAINTS, ANCHORAGES FOR SEISMIC RESTRAINTS, AND ATTACHMENTS TO STRUCTURE FOR SEISMIC RESTRAINTS AS THEY RELATE TO THE SEISMIC RESTRAINT OF PLUMBING & MECHANICAL EQUIPMENT, DUCTS AND PIPING.

SCHOOL PIPING, DUCTWORK & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE
1. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5. AND CBC 1616A.1.23-26.
2. THE BRACING AND ATTACHMENT TO THE STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE APPROVALS WITH AN OPA #, SUCH AS MASON INDUSTRIES (OPA 349), OR ISAT (OPA 485) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.
3. COPIES OF THE MANUALS SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.
4. THE STRUCTURAL ENGINEER OF THE RECORD SHALL VERIFY THE ADEQUACY OF THE STRCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

SCHOOL EQUIPMENT ANCHORAGE NOTE
ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.
1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
FOR THESE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.
Piping, Ductwork and Electrical Distribution System Bracing Note
Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-10 Section 13.3 as defined in ASCE 7-10 Section 13.6.5.6, 13.6.7, 13.6.8 and 2016 CBC, Sections 1616A. 1.24, 1616A. 1.25 and 1616A.1.26.
The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g.SMACNA or OSHPD OPM), copies of the bracing systems installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.
Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):
MP <input type="checkbox"/> MD <input checked="" type="checkbox"/> PP <input checked="" type="checkbox"/> E <input checked="" type="checkbox"/> -Option 1: Detailed on the approved drawings with project specific notes and details.
MP <input type="checkbox"/> MD <input type="checkbox"/> PP <input type="checkbox"/> E <input type="checkbox"/> -Option 2: Shall comply with applicable OSHPD Pre-Approval (OPM #)
#
MP <input type="checkbox"/> MD <input type="checkbox"/> PP <input type="checkbox"/> -Option 3: Shall comply with the SMACNA Seismic Restraint Manual, OSHPD Edition (2009), including any addenda. Fasteners and other attachments not specifically identified in the SMACNA Seismic Restraint Manual, OSHPD Edition, are detailed on the approved drawings with project specific notes, and details. The details shall account for the applicable Seismic Hazard Level and Connection Level for the project and conditions.

LEGEND	
SYMBOL	DESCRIPTION
	SECTION A / SHEET M1
	UNIT TYPE, FLOOR, AH UNIT NO.
	EQUIP. MARK NO. M1 / SEE EQUIP. SCHEDULE
	REVISION
	SHEET NOTE
	INDICATES OVAL DUCT
	NUMBER OF DIFFUSERS
	DIFFUSER OR GRILLE NECK SIZE
	DIFFUSER OR GRILLE MARK No.
	AMOUNT OF CFM DESIGNED
	HUMIDISTAT
	HUMIDITY SENSOR
	THERMOSTAT MTD. @ 48" AFF. MAX. TO TOP OF BOX
	TEMPERATURE SENSOR
	MAIN AIR, 20 PSIG
	TEMPERATURE SWITCH
	PRESSURE SENSOR
	POINT OF CONNECTION

LEGEND		
SINGLE LINE	DOUBLE LINE	DESCRIPTION
		FIRST DIMENSION DENOTES VIEW SHOWN; RECTANGULAR OR OVAL
		RISE OR DROP IN DIRECTION OF ARROW, RECTANGULAR DUCT
		TRANSITION, 18" MIN. LENGTH, 15" MAX. EACH SIDE. ROUND OR RECTANGULAR
		ACOUSTICAL LINED DUCT, LIMIT AS SHOWN. DIMENSIONS ARE NET INSIDE
		RECTANGULAR TO ROUND TRANSITION
		90° ELL W/TURNING VANES
		45° HEEL TAKE-OFF FITTING, RECTANGULAR DUCT
		CONICAL OR FLARED SPIN-IN OR CONICAL TAP ON RECTANGULAR DUCT
		18 INCH ROUND DUCT
		RISE OR DROP IN DIRECTION OF ARROW, ROUND DUCT
		ROUND DUCT ELBOW; R/D=1.5MIN.
		90° STRAIGHT TEE FITTING
		90° CONICAL TEE FITTING
		45° LATERAL FITTING
		45° CONICAL LATERAL FITTING
		DIVIDED FLOW FITTING
		Y - FITTING
		SUPPLY DUCT TURNING TOWARD
		SUPPLY DUCT TURNING AWAY
		RETURN DUCT TURNING TOWARD
		RETURN DUCT TURNING AWAY
		EXHAUST DUCT TURNING TOWARD
		EXHAUST DUCT TURNING AWAY
		ROUND DUCT TURNING TOWARD
		ROUND DUCT TURNING AWAY
		BALANCE DAMPER OR VOLUME DAMPER
		COMBINATION FIRE & SMOKE DAMPER (FSD), FIRE DAMPER (FD), BACKDRAFT DAMPER (BDD) MOTORIZED DAMPER (MD)
		FLEXIBLE DUCT
		SQUARE SUPPLY AIR DIFFUSER
		RETURN GRILLE OR TRANSFER GRILLE
		EXHAUST GRILLE
		SUPPLY GRILLE
		RETURN OR EXHAUST GRILLE

ABBREVIATIONS	
ABBREV	DESCRIPTION
AAD	AUTOMATIC AIR DAMPER
AAV	AUTOMATIC AIR VENT
AD	ACCESS DOOR (IN DUCT OR EQUIPMENT)
ADJ	ADJUSTABLE
AE	ACID EXHAUST
AFF	ABOVE FINISHED FLOOR
AFM	AIR FLOW MONITOR
AFS	AUTOMATIC FIRE SPRINKLER
AFS	AIR FLOW SWITCH
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AL1	ACOUSTICAL LINING - 1" THICK
AL2	ACOUSTICAL LINING - 2" THICK
ALUM	ALUMINUM
AMB	AMBIENT
AO	ANALOG OUTPUT
AP	ACCESS PANEL (IN CEILING OR WALL)
ARCH	ARCHITECTURAL
AUX	AUXILIARY CONTACT
AW	ACID WASTE DRAIN
AWV	ACID WASTE VENT
BDD	BACKDRAFT DAMPER
BD	BALANCE DAMPER
BF	BOTTOM FLAT
BFP	BACK FLOW PREVENTER
BFF	BELOW FINISHED FLOOR
BG	BLAST GATE
BHP	BREAK HORSEPOWER
BK	BREAK (OPEN) CONTACT
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTUH	BRITISH THERMAL UNITS PER HOUR
BV	BALANCE VALVE
C	COMMON
CA	COMPRESSED AIR
CD	CEILING DIFFUSER
CD	CONDENSATE DRAIN LINE
CCA	COOLING COIL
CD	CLEAN DRY AIR
CFF	CAP FOR FUTURE
CFM	CUBIC FEET OF AIR PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	DDC CONTACT INPUT
CKV	CHECK VALVE
CL	CENTERLINE
CLG	CEILING
CO	DDC CONTACT OUTPUT
CONC	CONCRETE
CONN	CONNECT, CONNECTION
CONT	CONTINUATION
CTE	CONNECT TO EXISTING
CW	CITY WATER (DOMESTIC)
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DA	DIRECT ACTING, DAMPER ACTUATOR
DB	DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DI	DIGITAL INPUT
DL	DOOR LOUVER
DN	DOWN
DO	DIGITAL OUTPUT
DP	DIFFERENTIAL PRESSURE
DPS	DIFFERENTIAL PRESSURE SWITCH
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
DS	DISCONNECT SWITCH
DWG	DRAWING
(E)	EXISTING
EA	EXHAUST AIR OR EACH
EAD	EXHAUST AIR DAMPER
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE
(EP)	EMERGENCY POWER
EQ	EQUAL
ER	EXHAUST REGISTER
ES	EMERGENCY SHOWER
ESE	EMERGENCY SHOWER & EYE WASH
EW	EMERGENCY EYE WASH
EWC	EVAPORATIVE WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
(F)	FUTURE
FC	FAN COIL UNIT
FCV	FLOW CONTROL VALVE
FD	FIRE DAMPER
FF	FINISHED FLOOR
FLR	FLOOR
FM	FLOW METER
FMS	FLOW MEASURING STATION
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH, FLOOR SINK
FSD	FIRE/SMOKE DAMPER
FA	FACE VELOCITY
GA	GAUGE
GAL	GALLON

ABBREVIATIONS (CON'T)	
ABBREV	DESCRIPTION
GALV	GALVANIZED
GE	GENERAL EXHAUST
GEF	GENERAL EXHAUST FAN
GPM	GALLONS PER MINUTE
GSM	GALVANIZED SHEET METAL
GYP	GYPSUM BOARD
HB	HOSE BIBB
HC	HEATING COIL
HOA	HAND-OFF AUTOMATIC SWITCH
HP	HORSEPOWER
HR	HOUR
HT	HEIGHT
HTG	HEATING
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HW	HOT WATER (DOMESTIC)
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
IN	INCH
IP	INTERFACE PANEL
KW, KWH	KILOWATT, KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MA	MILLIAMPS
MAU	MAKE-UP AIR UNIT
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MD	MANUAL DAMPER
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
(N)	NEW
NC	NORMALLY CLOSED
NO	NORMALLY OPEN; NUMBER
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
PCHR	PRIMARY CHILLED WATER RETURN
PCHS	PRIMARY CHILED WATER SUPPLY
PCV	PRESSURE CONTROL VALVE
PD	PRESSURE DROP
PF	PREFILTER
PG	PRESSURE GAUGE
PH	PREHEAT COIL
PLBG	PLUMBING
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
REHAT	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RS	REFRIGERANT SUCTION
RV	RELIEF VALVE
S/S	START/STOP
SA	SUPPLY AIR
SCHED	SCHEDULE
SCHR	SECONDARY CHILLED WATER RETURN
SOHS	SECONDARY CHILLED WATER SUPPLY
SD	SMOKE DETECTOR
SD	SLOT DIFFUSER
SOV	SHUT OFF VALVE
SM	SHEET METAL
SP	STATIC PRESSURE OR SET POINT
SPEC	SPECIFICATION
SR	SUPPLY AIR REGISTER
SS	STAINLESS STEEL
STRUC	STRUCTURAL
SWE	SIDE WALL EXHAUST
SWR	SIDE WALL RETURN
SWS	SIDE WALL SUPPLY
SWT	SIDE WALL TRANSFER
(T)	TEMPORARY
TB	TERMINAL BOX
TCP	TEMPERATURE CONTROL PANEL
TCV	TEMPERATURE CONTROL VALVE
TEMP	TEMPERATURE
TF	TOP FLAT
THERM	THERMOMETER
THRU	THROUGH
TS	TEMPERATURE SENSOR
T'STAT	THERMOSTAT
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UMC	UNIFORM MECHANICAL CODE
UOM	UNLESS OTHERWISE NOTED
UPC	UNIFORM PLUMBING CODE
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VOC	VOLITILE ORGANIC COMPOUND
VOL	VOLUME
VTR	VENT THRU ROOF
W/	WITH
W/O	WITHOUT
WB	WET BULB TEMPERATURE
WF	WIDE FLANGE

GENERAL NOTES	
1.	ALL NEW CONSTRUCTION SHALL CONFORM TO CURRENT CITY, STATE AND NATIONAL CODES, STANDARDS AND REQUIREMENTS.
2.	THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS IN THE FIELD BEFORE COMMENCEMENT OF THE WORK AND SHALL REPORT ANY DISCREPANCIES AND/OR INCONSISTENCIES BETWEEN THE DRAWINGS AND EXISTING FIELD CONDITIONS TO THE ENGINEER FOR CLARIFICATIONS BEFORE COMMENCEMENT OF THE WORK.
3.	THE CONTRACTOR SHALL CONSULT ARCHITECTURAL AND OTHER DRAWINGS RELATED TO THIS PROJECT FOR ADDITIONAL WORK TO BE PROVIDED.
4.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL TRADE PERMITS AND INSPECTIONS.
5.	THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND EQUIPMENT TO COMPLETE WORK AS SET FORTH IN THESE PLANS UNLESS OTHERWISE NOTED. THE SUBMISSION OF A BID OR PROPOSAL SHALL BE CONSIDERED AS CONCLUSIVE EVIDENCE THAT THE CONTRACTOR IS THOROUGHLY FAMILIAR WITH THE INTENT OF THE CONTRACT DOCUMENTS, AND NO CHANGE ORDER WILL BE ISSUED FOR ANY ADDITIONAL LABOR OR MATERIAL REQUIRED TO RECTIFY ANY DISCREPANCY DISCOVERED OR REPORTED TO THE ENGINEER AFTER THE EXECUTION OF THE CONTRACT.
6.	DRAWINGS ARE DIAGRAMMATIC IN NATURE, AND EXISTING CONDITIONS SHALL BE FIELD VERIFIED FOR EXACT LOCATION AND SIZES OF EXISTING UTILITIES, THE PROPOSED POINT OF CONNECTIONS TO EXISTING SYSTEMS AND NEW ROUTINGS. THE CONTRACTOR IS RESPONSIBLE TO THOROUGHLY VERIFY ALL EXISTING CONDITIONS BEFORE SUBMITTING HIS BID.
7.	ALL MATERIALS AND WORKMANSHIP ARE SUBJECT TO APPROVAL BY OWNERS. ANY PORTION OF THE DEFECTIVE WORK SHALL BE REPLACED BY THE CONTRACTOR AS PART OF THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
8.	ANY NEW OR EXISTING DUCT OR PIPING OFFSETS REQUIRED AS RESULT OF JOB CONDITIONS OR LACK OF COORDINATION WITH OTHER TRADES, SHALL BE PROVIDED AT NO ADDITIONAL COST TO OWNER AND SUBJECT TO ARCHITECT'S REVIEW.
9.	IF NECESSARY CONTRACTOR SHALL PROVIDE DUCTWORK, TRANSITIONS, ETC. EQUIVALENT TO THE FREE AREA OF DUCTWORK THAT IS SHOWN ON DRAWINGS, TO PREVENT ANY CONFLICT WITH EXISTING CONDITIONS, OTHER BUILDING SERVICES OR TO RESOLVE DUCTWORK CONFLICTS.
10.	EQUIPMENT, MATERIALS AND PRODUCTS SPECIFICALLY IDENTIFIED, DESCRIBED AND SCHEDULED ON THE CONTRACT DOCUMENTS ARE THE BASIS OF DESIGN FOR THIS PROJECT. OTHER MANUFACTURERS OR SUPPLIERS WHICH MAY BE NAMED IN THE DOCUMENTS ONLY INDICATE GENERAL ACCEPTABILITY OF THE MANUFACTURERS OR SUPPLIERS AND SHALL BE CONSIDERED ALTERNATES. IT IS CONTRACTOR'S RESPONSIBILITY TO RESEARCH, SELECT, AND PROVE THROUGH THE SUBMITTAL & SHOP DRAWINGS PROCESS, THAT THE SPECIFIC MODEL, SIZE OR TYPE OF THE ALTERNATE PROPOSED MANUFACTURER BY THE CONTRACTOR IS EQUAL AND SHALL PERFORM EQUAL TO THE ITEMS WHICH ARE THE BASIS OF THE DESIGN FOR THIS PROJECT. OPERATIONAL CHARACTERISTICS FOR SUCH ITEMS, OVERALL DIMENSIONS, WEIGHTS, OUTLET VELOCITIES, POWER INPUT, SOUND LEVELS, EFFICIENCIES, ETC. SHALL BE CONSIDERED IN ADDITION TO THE OVERALL PERFORMANCE, OUTPUT AND PHYSICAL CONSTRAINTS.
11.	THE CONTRACTOR ASSUMES FULL RESPONSIBILITY THAT ALTERNATIVE ITEMS SUBSTITUTED FOR THE SCHEDULED MANUFACTURER WILL MEET THE DESIGN REQUIREMENTS AND IS RESPONSIBLE FOR THE COST OF REDESIGN AND MODIFICATIONS BY ALL TRADES NECESSARY DUE TO THIS SUBSTITUTION/ALTERNATE. REVISIONS OR ADDITIONAL WORK REQUIRED DUE TO THE USE OF SUBSTITUTE/ALTERNATE MATERIALS AND EQUIPMENT SHALL BE FULLY INDICATED ON DETAILED SHOP DRAWINGS SUBMITTED WITH SUBMITTAL.
12.	UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED, NOTCHED OR WELDED WITH OUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.
13.	ALL NEW WORK SHALL COMPLY WITH A TYPE V ONE HOUR RATED BUILDING.

DRAWING INDEX	
SHEET NO.	DESCRIPTION
M0.1	LEGEND, INDEX, ABBREVIATIONS & GENERAL NOTES
M2.1	MECHANICAL FLOOR PLAN
M6.1	MECHANICAL DETAILS

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At Project No. 218244

Date Signed 10/10/2018

Architect Seal

Project Title

Toyon Elementary School

995 Bard St.
San Jose, CA 95127

FLEXIBLE INSTRUCTION SPACE

Client

Berryessa Union School District
1376 PIEDMONT RD.
SAN JOSE, CA 95132

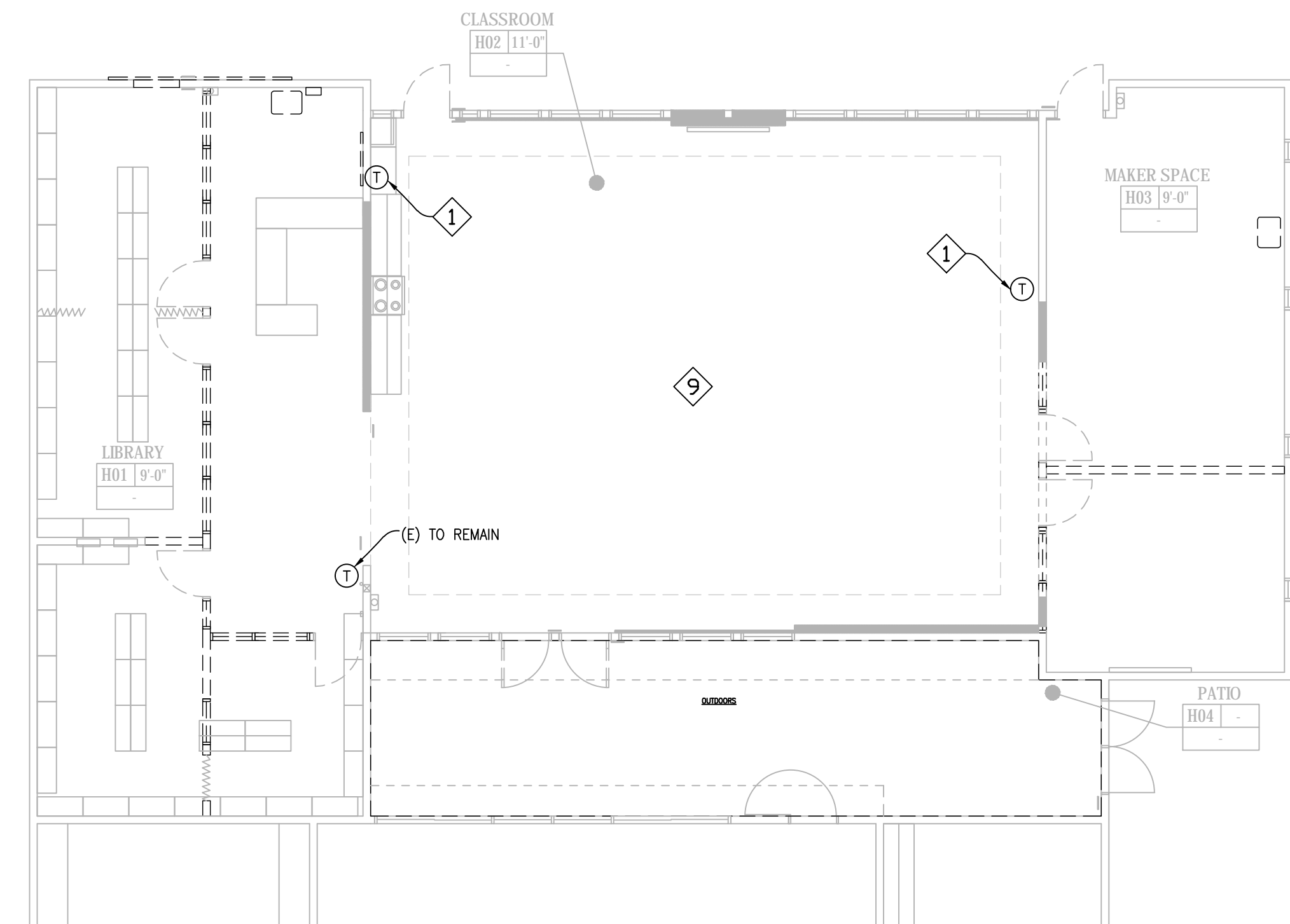
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	DSA Submittal	08/06/18
	DSA Back-Check	10/11/18

Drawing Title

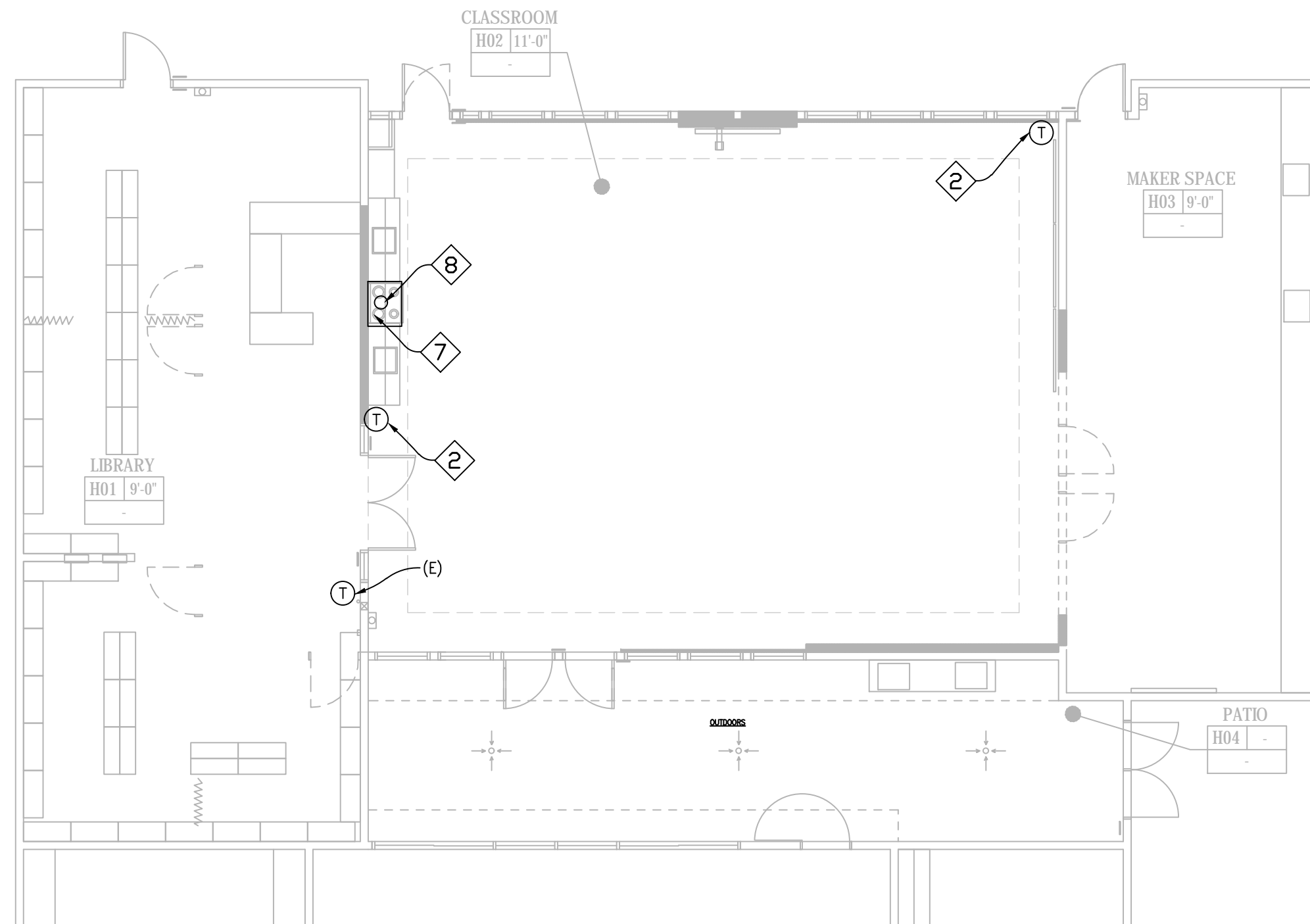
Project No. 1711	Date August 6, 2018
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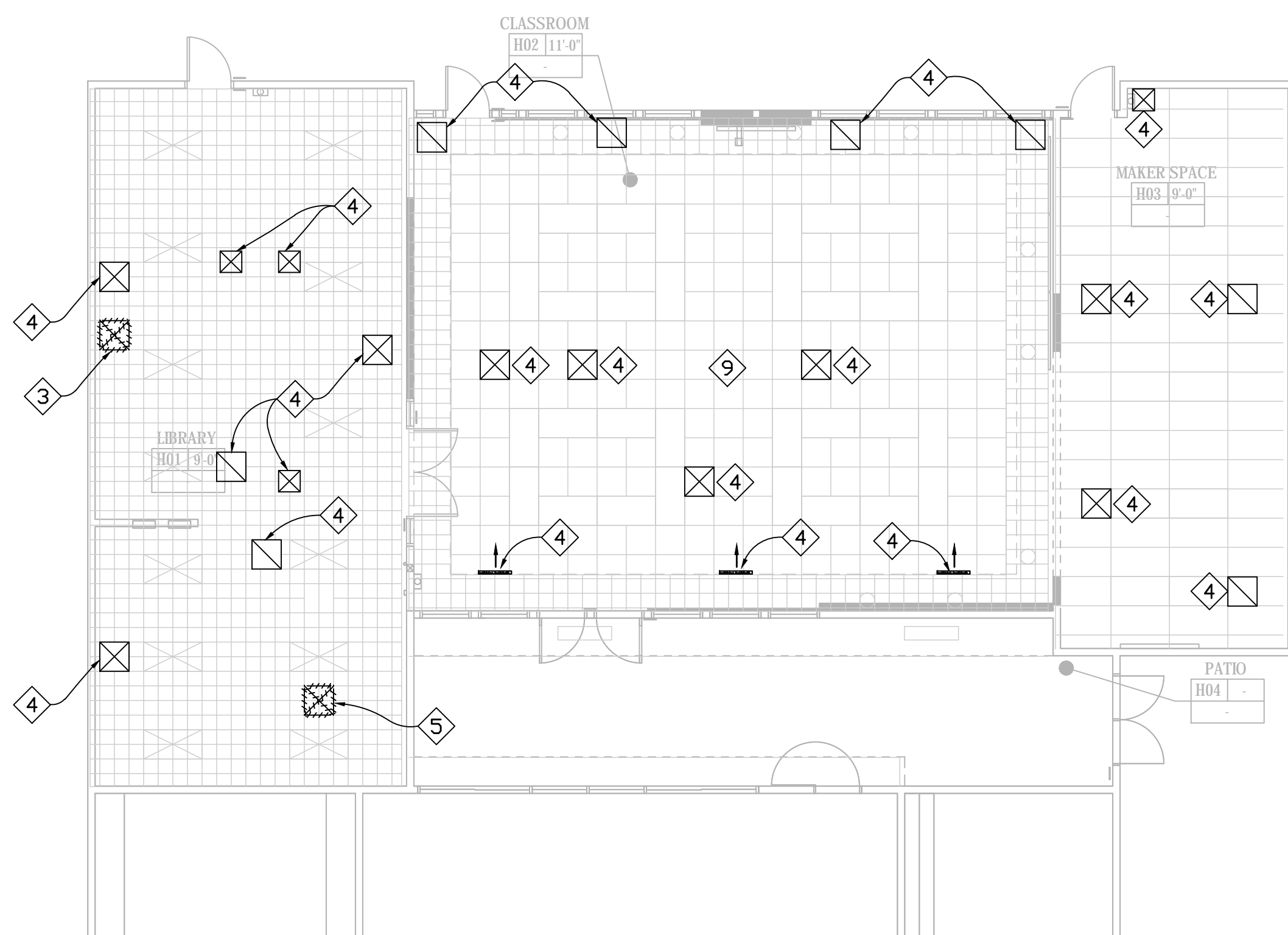
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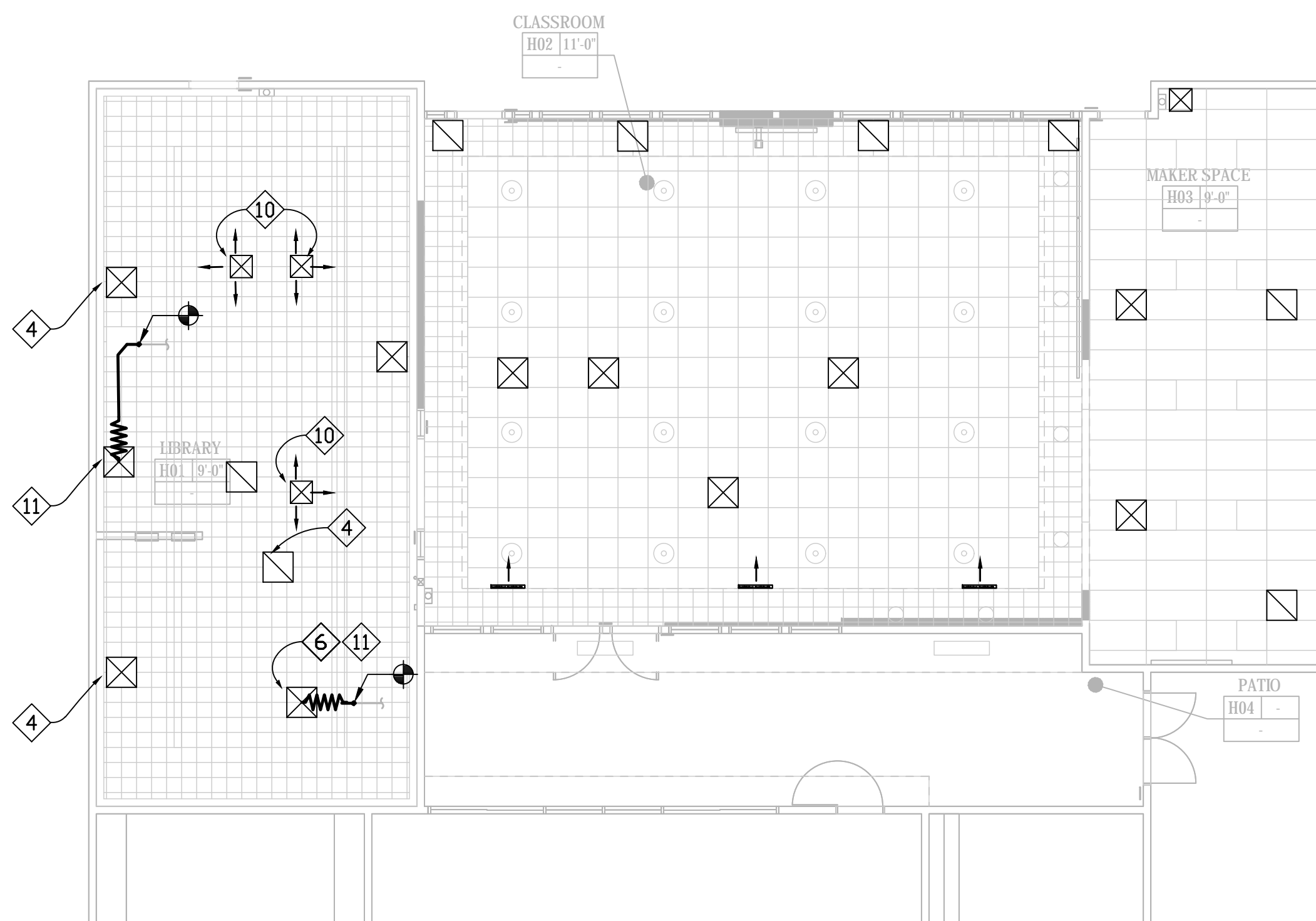
3 MECHANICAL DEMOLITION PLAN
SCALE: 1/8" = 1'0"



1 MECHANICAL PLAN
SCALE: 1/8" = 1'0"



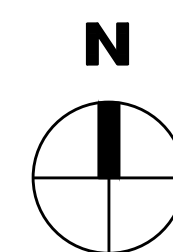
4 MECHANICAL DEMOLITION REFLECTED CEILING PLAN
SCALE: 1/8" = 1'0"



2 MECHANICAL REFLECTED CEILING PLAN
SCALE: 1/8" = 1'0"

SHEET NOTES:

- 1 REMOVE (E) THERMOSTAT. REFER TO 1/M2.1 FOR NEW LOCATION.
- 2 NEW LOCATION OF RELOCATED THERMOSTAT TO CLEAR SLIDING DOOR. PROVIDE ALL HARDWARE & WIRING TO ACCOMMODATE NEW LOCATION.
- 3 (E) DIFFUSER (OR GRILLE) TO BE RELOCATED. REFER TO 2/M2.1 FOR (N) LOCATION. CLEAN DIFFUSER (OR GRILLE) PRIOR TO REINSTALLING.
- 4 (E) DIFFUSER (OR GRILLE) TO BE CLEANED.
- 5 (E) DIFFUSER TO BE DEMOLISHED.
- 6 (N) TITUS OR EQUAL, PAS. NECK SIZE TO MATCH (E) SUPPLY DUCT.
- 7 (N) 3' UNDERCOUNTER RANGE HOOD. NUTONE, OR EQUAL, AVSF136WW-300 CFM
- 8 10" Ø UP THRU ROOF. TRANSITION TO 7" Ø IN VERTICAL PRIOR TO CONNECTING TO THE HOOD. REFER TO 3/M6.1.
- 9 PRIOR TO DEMOLITION , PERFORM AIR VOLUME READINGS & RECORD ACTUAL CFM'S. SUBMIT WRITTEN REPORT TO ARCHITECT FOR REVIEW PRIOR TO COMMENCING WITH DEMOLITION.
- 10 REVISE TO 3-WAY DISCHARGE PATTERN AS INDICATED.
- 11 BALANCE DIFFUSER TO PROVIDE THE VOLUME OF AIR RECORDED IN ACCORDANCE WITH SHEET NOTE 9.



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**FLEXIBLE INSTRUCTION
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MECHANICAL PLANS

Project No. 1711	Date August 6, 2018
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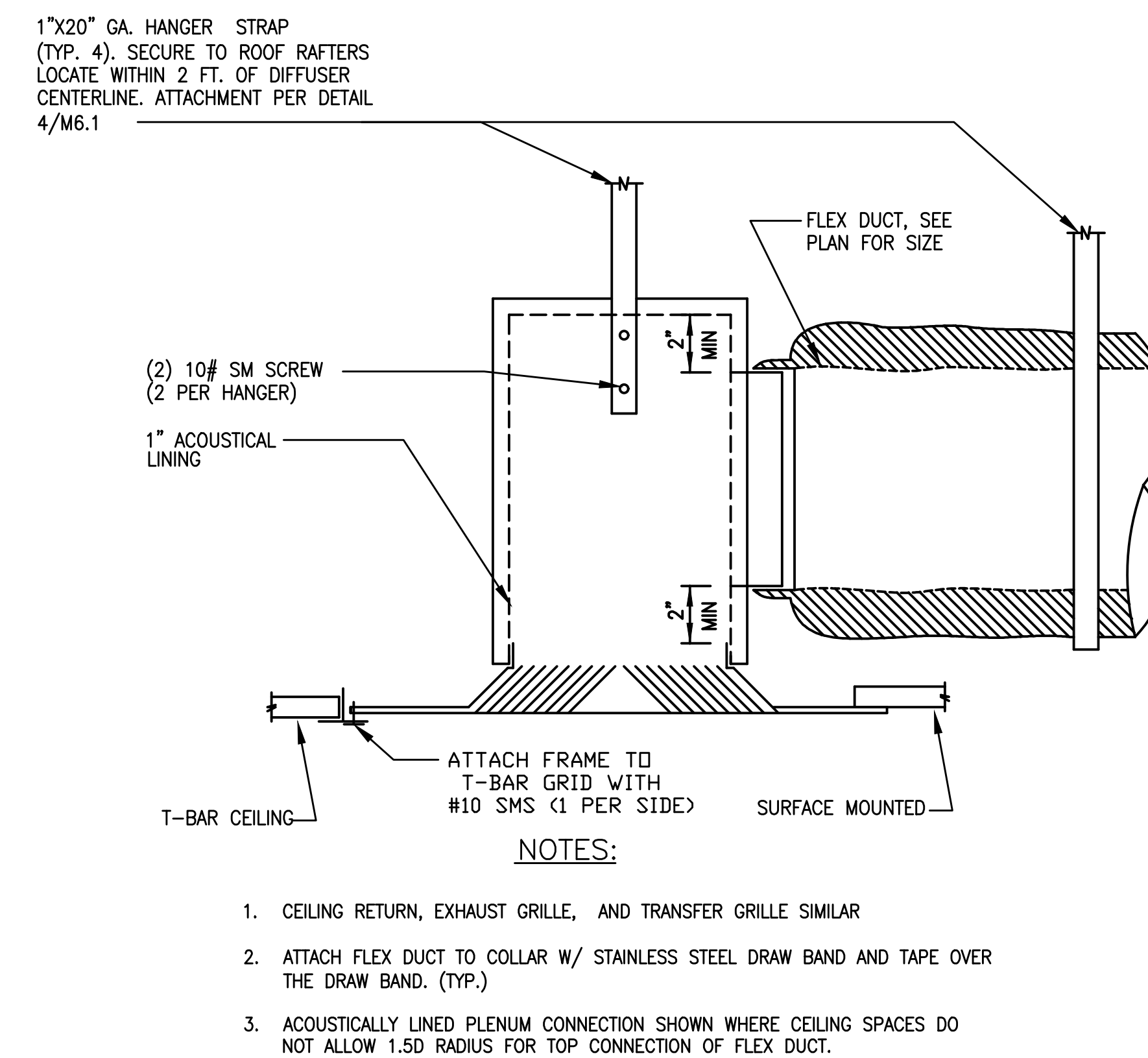
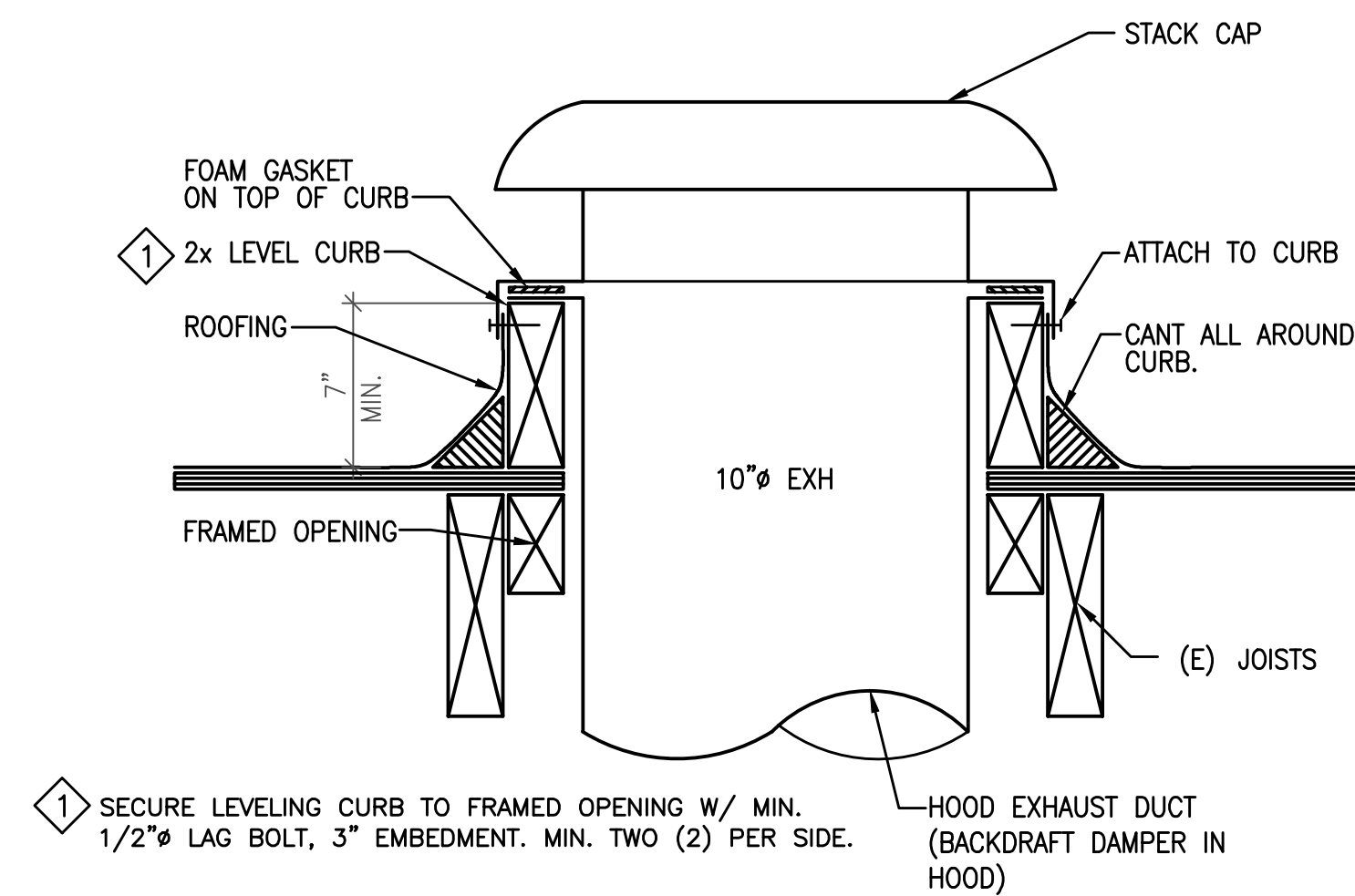
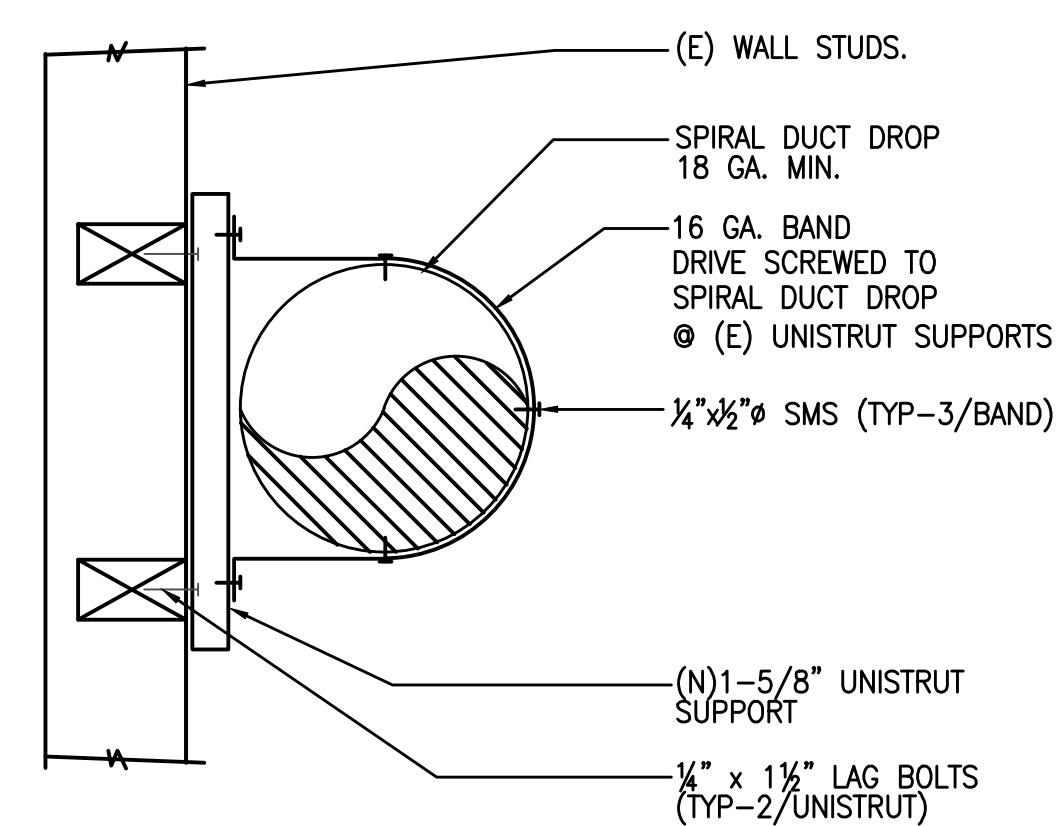
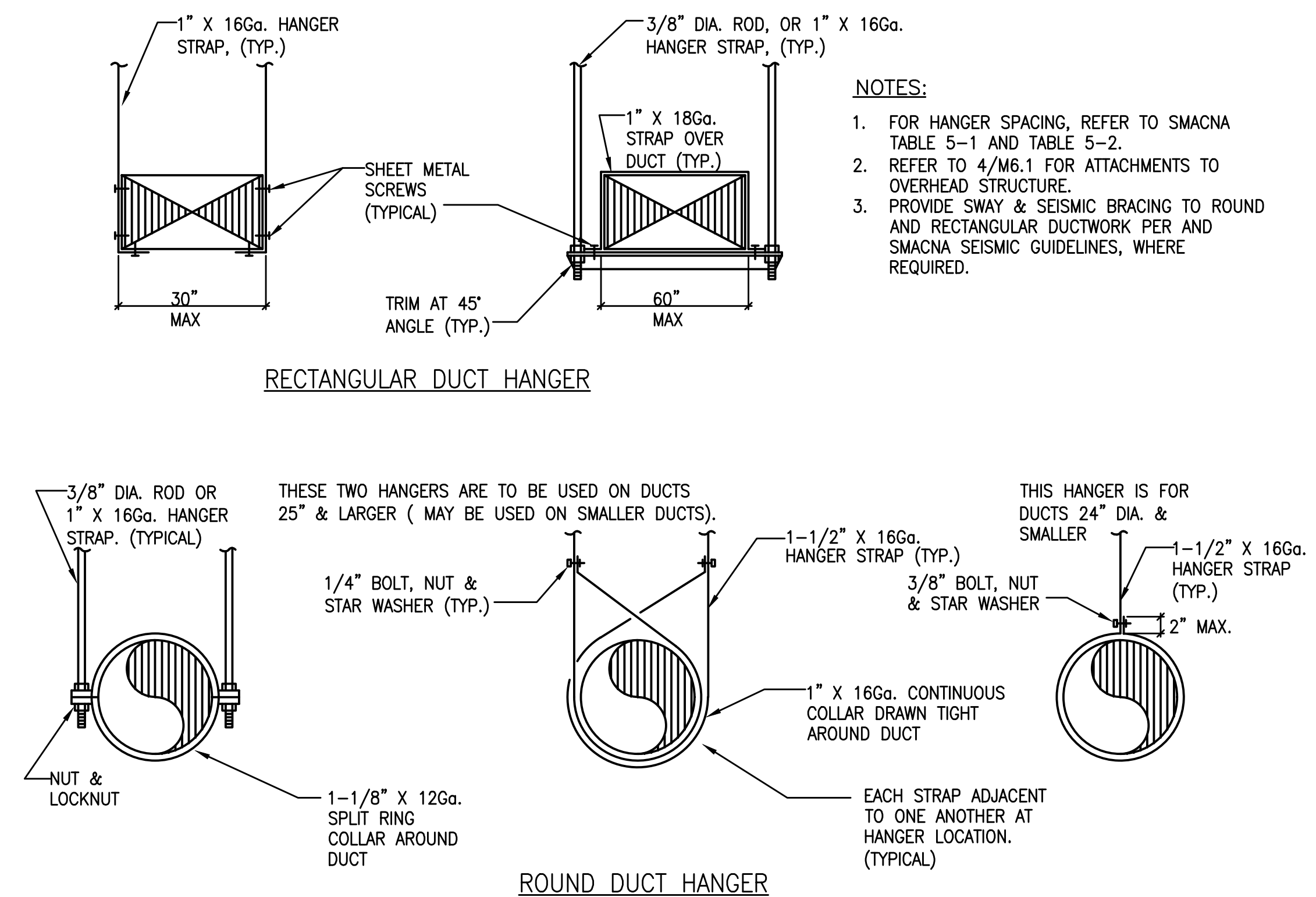
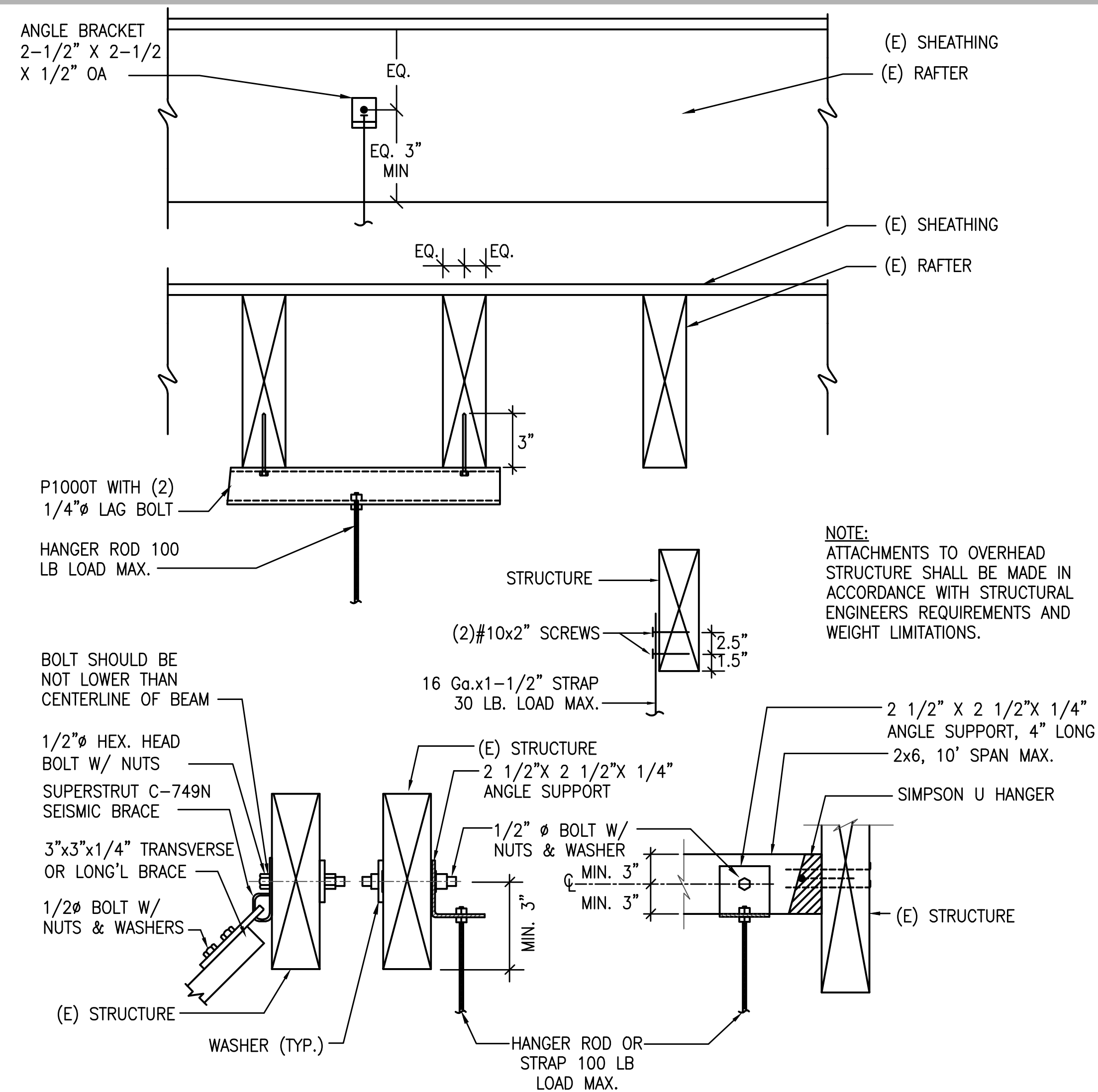
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No	Revisions/Submissions	Date
	DSA Submittal	08/06/18
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Drawing Title

MECHANICAL DETAILS

Project No.
1711

Date
August 6, 2018

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M6.1

MEP Component Anchorage Note

- All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2016 CBC, Sections 1616A.1.18 through 1616A.1.26 and ASCE 7–10 Chapter 16.26, and 30.
- 1.All permanent equipment and components.
 - 2.Temporary or moveable equipment that is permanently attached (e.g hard wired) to the building utility services such as electricity, gas or water.
 - 3.Moveable equipment which is stationed in one place for more than 8 hours and heavier than 400 pounds are required to be anchored with temporary attachments.

The following mechanical and electrical components shall be positively attached to the structure, but the attachment need not be detailed on the plans. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit.

A.Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level the directly support the component.

B.Components weighing less than 20 pounds, or in the case distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

For those elements that do not require details on the approved drawings, the installation shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and DSA District Structural Engineer. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7–10 Section 13.3 as defined in ASCE 7–10 Section 13.6.5.6, 13.6.7, 13.6.8 and 2016 CBC, Sections 1616A. 1.23 1616A.1.24, 1616A .1.25 and 1616A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g.,SMACNA or OSHPD OPM), copies of the bracing systems installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):

MP ☐ MD ☐ PP ☒ E ☐ – Option 1: Detailed on the approved drawings with project specific notes and details.

MP ☐ MD ☐ PP ☐ E ☐ – Option 2: Shall comply with applicable OSPD Pre–Approval (OPM #) #_____.

MP ☐ MD ☐ PP ☐ – Option 3: Shall comply with the SMANCNA Seismic Restraint Manual, OSHPD Edition (2009), including any addenda. Fasteners and other attachments not specifically identified in the SMACNA Seismic Restraint Manual, OSHPD Edition, are detailed on the approved drawings with project specific notes, and details. The details shall account for the applicable Seismic Hazard Level _____ and Connection Level _____ for the project and conditions.

REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR COMPONENT ANCHORAGE NOTES.

PLUMBING FIXTURE SCHEDULE

CODE	DESCRIPTION	WASTE (INCHES)	VENT (INCHES)	MINIMUM SUPPLY CONNECTION (INCHES)		REMARKS
				DCW	DHW	
SK–1	CLASSROOM SINK	2	2	1/2	–	ELKAY LUSTERTON SINGLE BOWL 18 GAUGE STAINLESS STEEL SINK. DRKR2217LC 22"x17"x7–5/8" DEPTH BOWL CENTER DRAIN OPENING. COMPLETE WITH LKDV208513LC FAUCET, LK35 STRAINER BASKET AND TAILPIECE AND LKVR1141A BUBBLERS. P–TRAP CP, SPEEDWAY CR1915A STOPS AND SUPPLIES WITH ESCUTCHEONS. PROVIDE INSULATED WASTE, AND COLD WATER PIPING UNDER COUNTER WITH Mc GUIRE PW2000.
SK–2	CLASSROOM SINK ADA	2	2	1/2	–	ELKAY LUSTERTON SINGLE BOWL 18 GAUGE STAINLESS STEEL SINK. DRKADQ251755 ADA COMPLIANT, 25"x17"x5–1/2" DEPTH BOWL WITH REAR CENTER DRAIN OPENING. "2LM" HOLE DRILLING CONFIGURATION. 1–1/2"DIA METER FAUCET HOLE ON CENTER AND 1–1/2" DIAMETER SLOTTED HOLE ON CORNER. COMPLETE WITH LKDV208513LC FAUCET, LKVR18B DRAIN AND LKVR1141A BUBBLERS. P–TRAP CP, SPEEDWAY CR1915A STOPS AND SUPPLIES WITH ESCUTCHEONS. PROVIDE INSULATED WASTE, AND COLD WATER PIPING UNDER COUNTER WITH Mc GUIRE PW2000.
SK–3	OUTSIDE SINK ADA	2	2	1/2	–	REFER TO ARCHITECTURAL PLANS FOR DETAILS AND INSTALLATION. P–TRAP CP, SPEEDWAY CR1915A STOPS AND SUPPLIES WITH ESCUTCHEONS. PROVIDE INSULATED WASTE, AND COLD WATER PIPING UNDER COUNTER WITH Mc GUIRE PW2000
LV	EXISTING LAVORATORY	–	–	–	–	EXISTING BOWL AND FAUCET. PROVIDE CARRIER SUPPORT. DRAIN: STRAINER, 17 GA. P–TRAP CP, SPEEDWAY CR1915A STOPS AND SUPPLIES WITH ESCUTCHEONS. PROVIDE INSULATED WASTE AND COLD WATER PIPING UNDER COUNTER WITH McGUIRE PW2000.
DF–1	DRINKING FOUNTAIN (ACCESSIBLE)	2	2	1/2	–	HAWS MODEL 117L "HI–LO" BUBBLER BARRIER–FREE WALL MOUNTED 14 GA. TYPE 304 STAINLESS STEEL, VANDAL RESISTANT BOTTOM PLATE, PUSH BUTTON ACTIVATION; MOUNTING PLATE 6800 AND SUPPORT CARRIER MODEL 6800. ANTIMICROBIAL PROTECTED.

- NOTE:
1. SEE ARCHITECTUAL PLANS FOR LOCATION, DETAILS AND INSTALLATION.

GENERAL NOTES

1. THE SUBMISSION OF A BID PROPOSAL SHALL BE CONSIDERED AS CONCLUSIVE EVIDENCE THAT THE CONTRACTOR IS THOROUGHLY FAMILIAR WITH THE INTENT OF THE CONTRACT DOCUMENTS AND SCOPE OF WORK. THE CONTRACTOR, PRIOR TO BIDDING, SHALL CHECK EXISTING INSTALLATIONS AND SYSTEMS RELATED TO HIS WORK AND SHALL IN THE BID PROPOSAL INCLUDE ALL LABOR AND MATERIAL REQUIRED TO COMPLETE THE SYSTEM.
2. ALL WORK UNDER THIS DIVISION SHALL BE COORDINATED WITH OTHER TRADES.
3. THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND LEAVE WORK AREA CLEAN DAILY.
4. ALL MATERIALS AND WORKMANSHIP ARE SUBJECT TO REVIEW BY ARCHITECT. ANY PORTION OF THE WORK DEEMED DEFECTIVE SHALL BE REPLACED BY THE CONTRACTOR AS PART OF THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
5. ABSOLUTE ACCURACY OF DRAWING CAN NOT BE GUARANTEED. WHILE EVERY EFFORT HAS BEEN MADE TO COORDINATE THE LOCATION OF THE EXISTING EQUIPMENT, PIPING, ETC. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE EXACT REQUIREMENTS GOVERNED BY ACTUAL JOB CONDITIONS.
6. ANY PIPING OFFSETS REQUIRED AS RESULT OF EXISTING JOB CONDITIONS OR LACK OF COORDINATION WITH OTHER TRADES SHALL BE PROVIDED AT NO ADDITIONAL COST TO OWNER AND SUBJECT TO REVIEW BY THE ARCHITECT, PRIOR TO DOING SUCH WORK.
7. PENETRATIONS IN WALLS, FLOORS OR CEILINGS, WHICH REQUIRE PROTECTED OPENINGS SHALL BE FIRE–STOPPED. MFG.'S INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTION AUTHORITY AND BE MAINTAINED AT THE JOB SITE.
8. THE VENT PIPE SHALL BE MIN. 10'–0" AWAY FROM ANY INTAKE AIR TO HVAC UNIT. COORDINATE WITH MECHANICAL CONTRACTOR.
9. PLUMBING WORK TO BE DEMOLISHED IS SHOWN HATCHED AND/OR CALLED BY SHEET NOTES.
10. EXISTING PLUMBING WORK TO REMAIN IS SHOWN AS LIGHT LINES.
11. REMOVE EXISTING PIPE SUPPORTS WHERE THE PIPING HAS BEEN REMOVED.
12. IN ALL AREA OF DEMOLITION, PATCH, REPAIR, AND FINISH SURFACES TO MATCH EXISTING ADJACENT SURFACES WHEN NEW, ANY DAMAGE TO EXISTING AREA SHALL BE REPAIRED TO LIKE NEW CONDITIONS.
13. DEMOLITION SHALL NOT INTERRUPT THE OPERATION OF OTHER ADJACENT OCCUPIED SPACES. COORDINATE WITH OWNER/USER IN ADVANCE OF SERVICE INTERRUPTIONS OUTSIDE PHASE OF WORK PER DSA PROTOCOL.
14. CONTRACTOR SHALL COORDINATE WITH OWNER/DSA FOR OFF–HOUR WORK AS REQUIRED TO MINIMIZE DISRUPTION TO NORMAL FUNCTIONS IN THE SCHOOL.
15. CORE DRILL THROUGH (E) CMU WALL TO ROUTE MECHANICAL, ELECTRICAL AND PLUMBING LINES AS REQUIRED. X–RAY OR USE A PACHOMETER TO LOCATE (E) REBAR. DO NOT CUT (E) REBAR, ANCHOR BOLTS, LEDGERS, ETC.... CORE DRILL BETWEEN (E) REBAR AND ALLOW FOR 1" OF CONCRETE COVERAGE OVER (E) REBAR. MAX HOLE SHALL BE 12" DIAMETER.

PLUMBING LEGEND

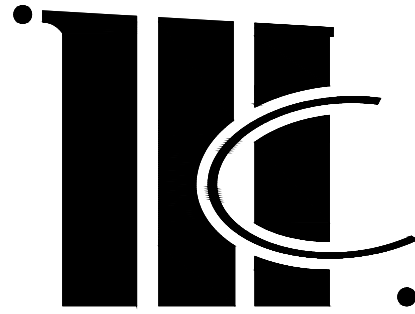
SYMBOL	ABBREV.	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION
	SS	SANITARY PIPE ABOVE GRADE OR FLOOR		AFF	ABOVE FINISHED FLOOR
	SS	SANITARY PIPE BELOW GRADE OR FLOOR		AP	ACCESS PANEL
	SV	VENT PIPE ABOVE OR BELOW FLOOR		BTU	BRITISH THERMAL UNIT
	DCW	DOMESTIC COLD WATER ABOVE CEILING U.O.N.		CD	CONDENSATE DRAIN
	DHW	DOMESTIC HOT WATER ABOVE CEILING U.O.N.		CFH	CUBIC FEET PER HOUR
	DHWR	DOMESTIC HOT WATER RETURN ABOVE CEILING U.O.N.		CP	CIRCULATING PUMP
	GW	GREASE WASTE PIPING		CTE	CONNECT TO EXISTING
	CD	CONDENSATE DRAIN		CWV	COMBINATION WASTE AND VENT PIPE
	GAS	PROPONE GAS PIPE ABOVE CEILING & ON ROOF UNLESS OTHERWISE NOTED		D	DRAIN
	TP	TRAP PRIMER WATER LINE		DU	DISTRIBUTION UNIT
	CFF	CAP FOR FUTURE		<E>	EXISTING–UNLESS ITEM IS NOTED AS EXISTING IT IS PART OF THE NEW WORK
	UP	PIPE UP		F	FUTURE
	DN	PIPE DOWN		FF	FINISH FLOOR
		PIPE RISE OR DROP		FS	FLOOR SINK
		PIPE CONNECTION FROM TOP		DFU	DRAIN FIXTURE UNIT
		PIPE CONNECTION FROM BOTTOM		G	NATURAL GAS
		PIPE CONNECTION FROM SIDE		GPM	GALLON PER MINUTE
		DIRECTION OF FLUID FLOW		GRV	GAS REDUCING VALVE
		UNION		GVTR	GAS VENT THRU ROOF
	WCO	WALL CLEANOUT		IE	INVERT ELEVATION
	FD	FLOOR DRAIN		IRR	IRRIGATION
	FCO	FLOOR CLEANOUT		LAV	LAVATORY
	HB	HOSE BIBB		MBH	THOUSANDS OF BTU PER HOUR
		GAS COCK		MG	THOUSANDS OF BTU PER HOUR
	BV	BALL VALVE		NTS	NOT TO SCALE
		PRESSURE REGULATOR		OFD	OVER FLOW DRAIN
		SOLENOID VALVE		RD	ROOF DRAIN
	WHA	WATER HAMMER ARRESTER		RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
		PIPE SLEEVE		RR	ROOF RECEPTOR
		VALVE IN VALVE BOX		RWL	RAIN WATER LEADER
		BOLD LINE WEIGHT INDICATES NEW WORK		SF	SQUARE FEET
		SLASHED LINES INDICATE (E) WORK TO BE DEMOLISHED		SFU	SUPPLY FIXTURE UNIT
		LIGHT LINE WEIGHT INDICATES EXISTING WORK		SK	SINK
	SL	SLOPE		SOV	SHUT–OFF VALVE
		SHEET NOTE		TYP	TYPICAL
		EQUIPMENT NUMBER		TWCO	TWO–WAY CLEANOUT
	P.O.C.	POINT OF CONNECTION		VTR	VENT THRU ROOF
				WH	WATER HEATER

PLUMBING EQUIPMENT SCHEDULE

TAG	ITEM	LOCATION	DISCRPTION
FCO	FLOOR CLEANOUT	SEE PLAN	ZURN ZN–1400 ROUND NICKEL BRONZE TOP BRONZE PLUG.
WCO	WALL CLEANOUT	SEE PLAN	ZURN Z–1446 CLEANOUT TEE WITH ROUND STAINLESS STEEL COVER

PLUMBING DRAWING INDEX

SHEET NO.	DESCRIPTION
P–0.1	PLUMBING LEGEND, NOTES, SCHEDULES & DRAWING INDEX
P–1.1	PLUMBING SITE PLAN
P–2.1	PLUMBING DEMO PLAN AND BUILDING E FLOOR PLAN
P–3.1	PLUMBING FLOOR PLAN – BUILDING H
P–4.1	PLUMBING DETAILS
P–4.2	PLUMBING DETAILS



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AT Project No. 218244



Date Signed 10/10/2018

Architect Seal

Project Title

Toyon Elementary School

995 Bard St.
San Jose, CA 95127

FLEXIBLE INSTRUCTION
SPACE

Client

Berryessa Union School District
1376 PIEDMONT RD.
SAN JOSE, CA 95132

No	Revisions/Submissions	Date
	DSA Submittal	08/06/18
	DSA Back-Check	10/11/18

Drawing Title

PLUMBING LEGEND, NOTES,
SCHEDULES & DRAWING INDEX

Project No.
1711

Date
August 6, 2018

Regulatory Agency Approval

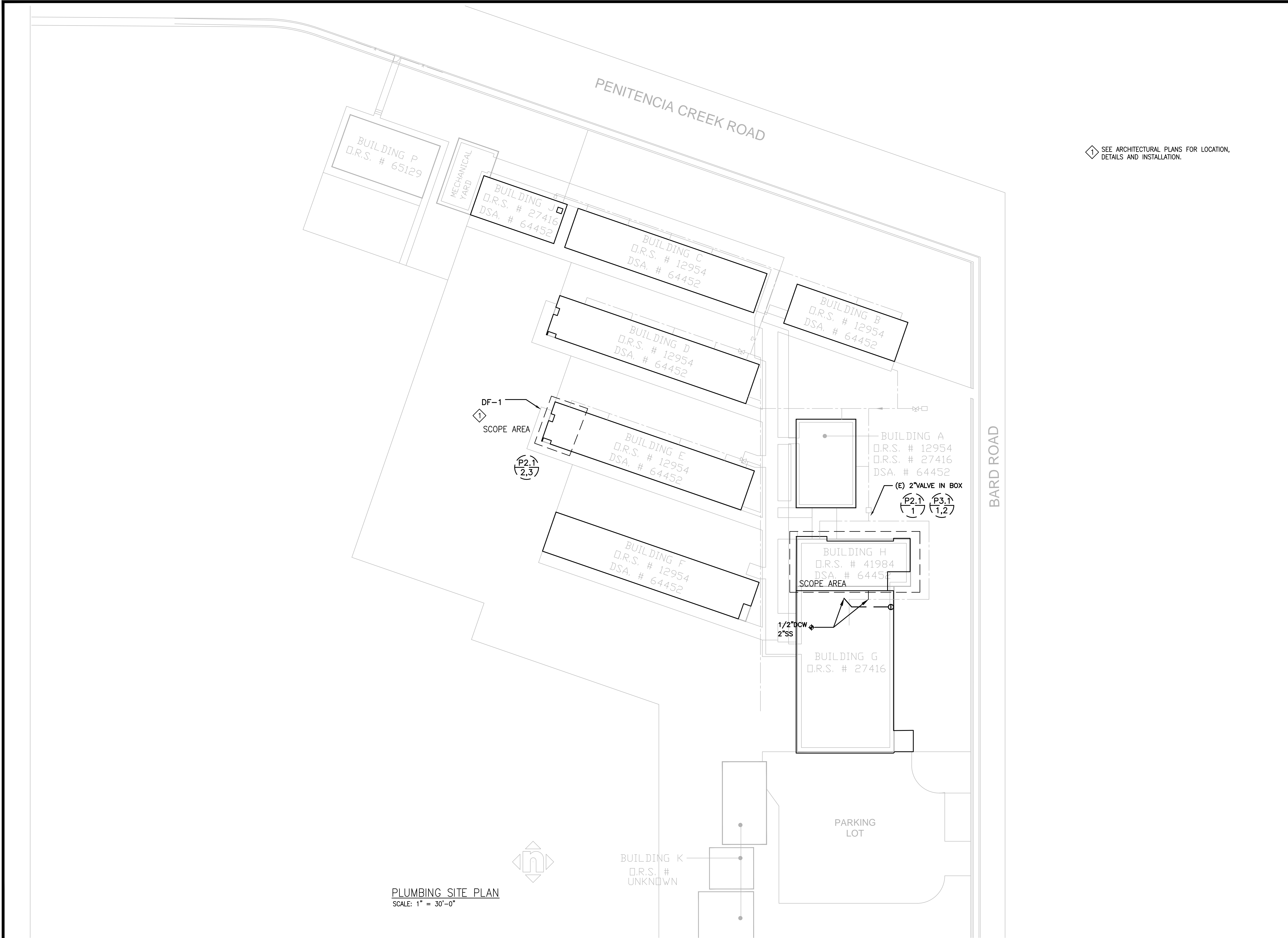
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Drawing Number
CD P0.1



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PLUMBING SITE PLAN

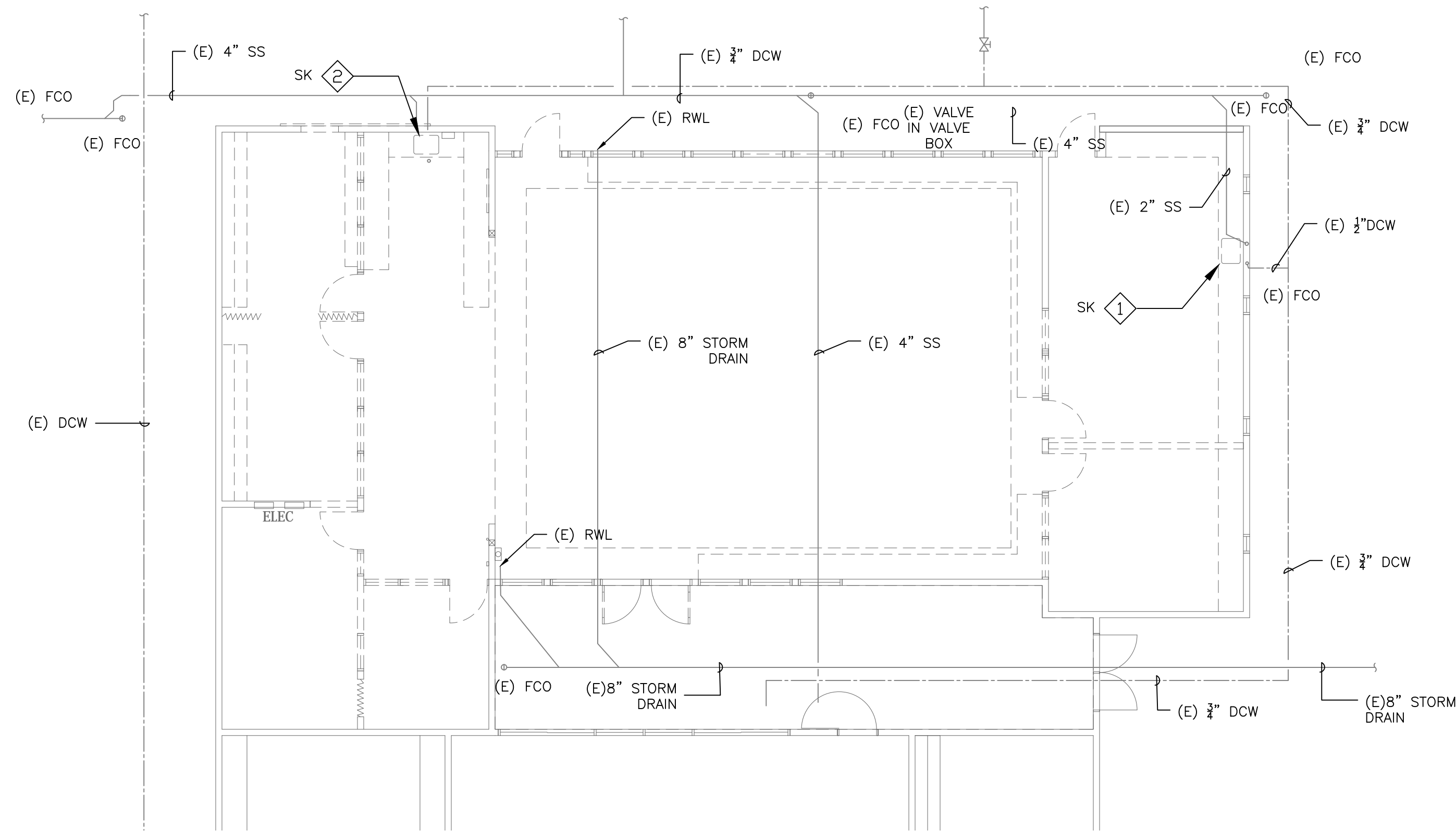
Project No. 1711	Date August 6, 2018
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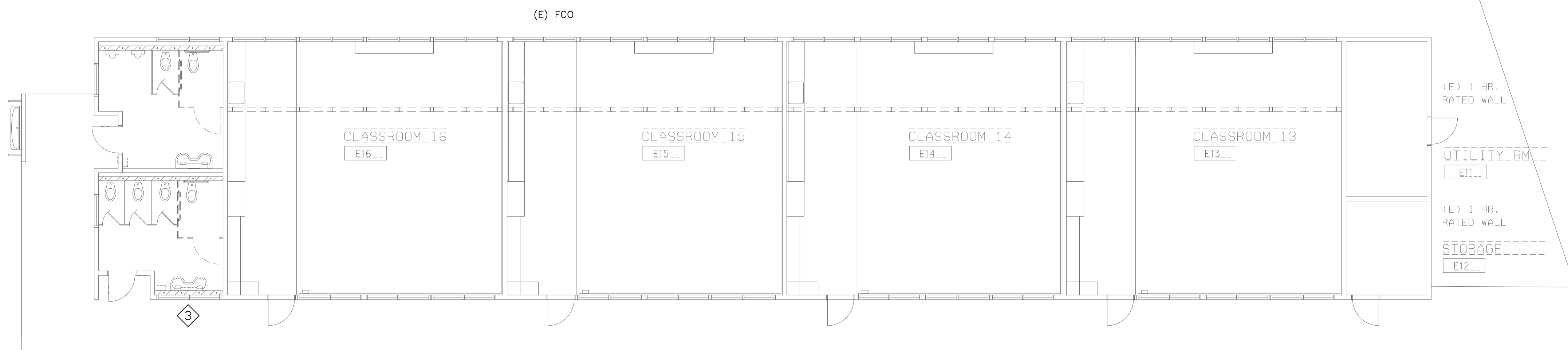
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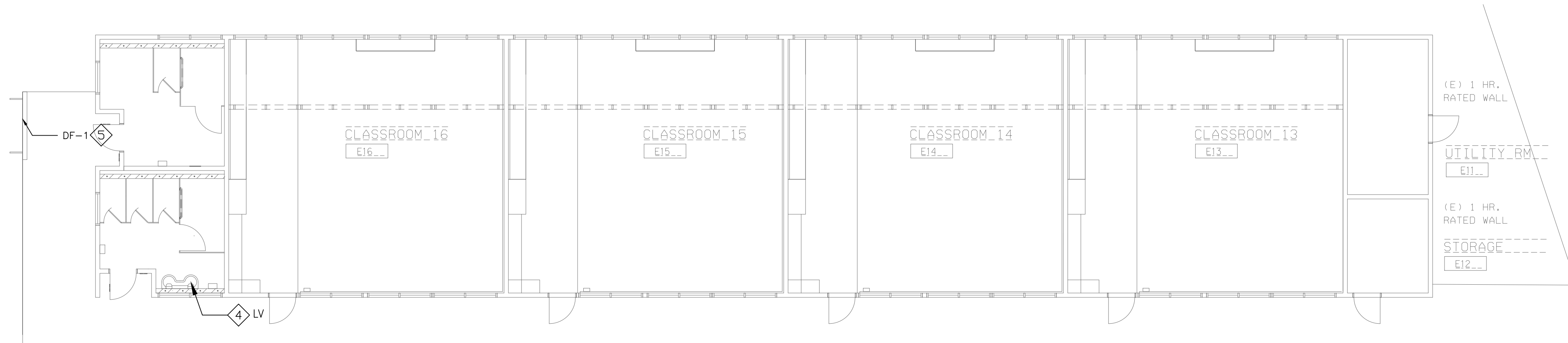
CD	Drawing Number P1.1
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1 DEMO PLAN BUILDING H
SCALE: 1/8" = 1'0"



2 DEMO PLAN BUILDING E
SCALE: 1/8" = 1'0"



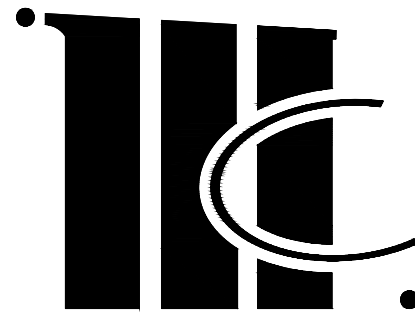
3 PLUMBING PLAN BUILDING E
SCALE: 1/8" = 1'0"

GENERAL NOTES:

1. SEE SHEET P0.1

SHEET NOTES:

- 1 REMOVE EXISTING PLUMBING FIXTURE(S) AND ALL ASSOCIATED PIPING/HARDWARE COMPONENTS. KEEP DCW, SS, SV RISER FOR NEW CONNECTION.
- 2 REMOVE EXISTING SINK AND ALL ASSOCIATED PIPING/HARDWARE COMPONENTS. CUT AND CAP DCW, SS AND SV PIPING INSIDE WALL. PATCH AND REPAIR WALL/FLOOR TO MATCH EXISTING.
- 3 REMOVE AND SAVE EXISTING PLUMBING FIXTURES . KEEP DCW, SS AND SV ROUGH-INS FOR RECONNECTION.
- 4 CONNECT ALL UTILITIES INCLUDING DCW, SS AND SV AS REQUIRED FOR RE-USED PLUMBING FIXTURES. PROVIDE NEW ANGLE STOP. FLEXIBLE PIPING, P-TRAPS FOR RE-USED PLUMBING FIXTURES.
- 5 SEE ARCHITECTURAL PLANS FOR LOACTION, DETAILS AND INSTALLATION.



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Drawing Title

PLUMBING DEMO
AND BUILDING E
FLOOR PLAN

Project No. 1711	Date August 6, 2018
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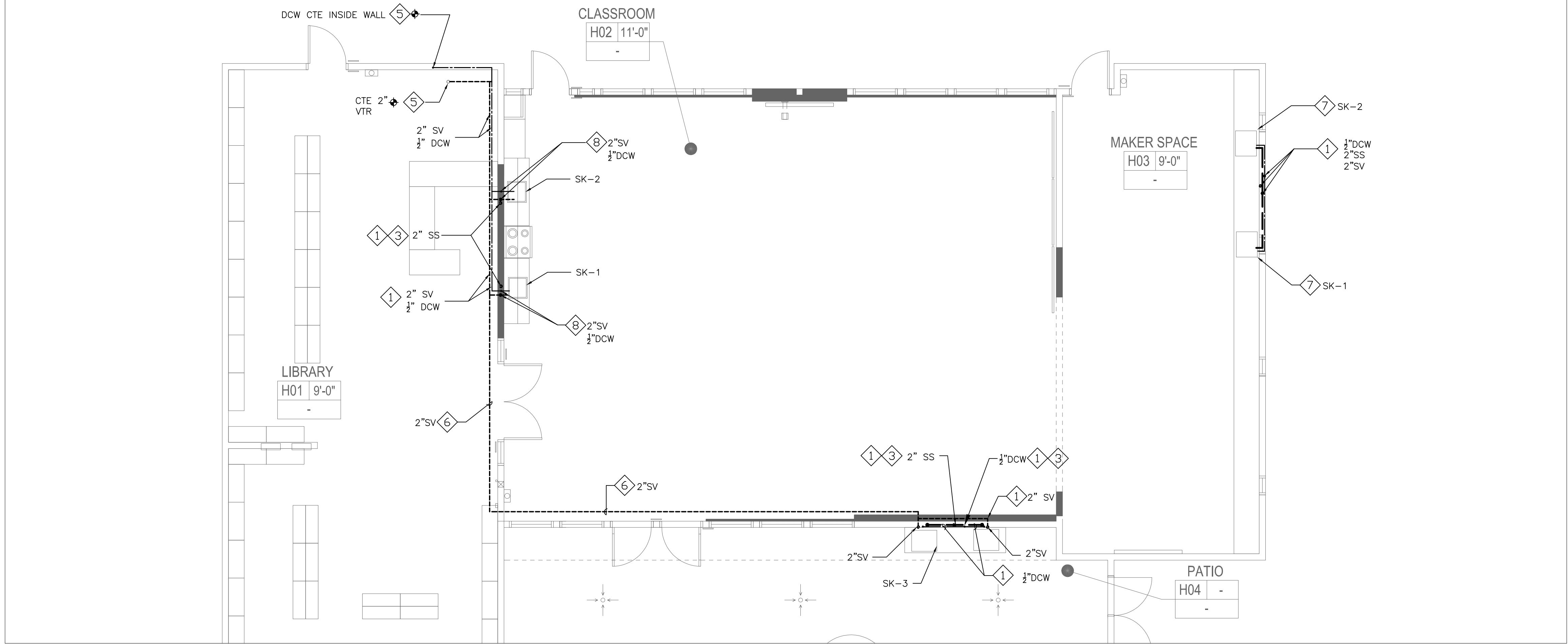
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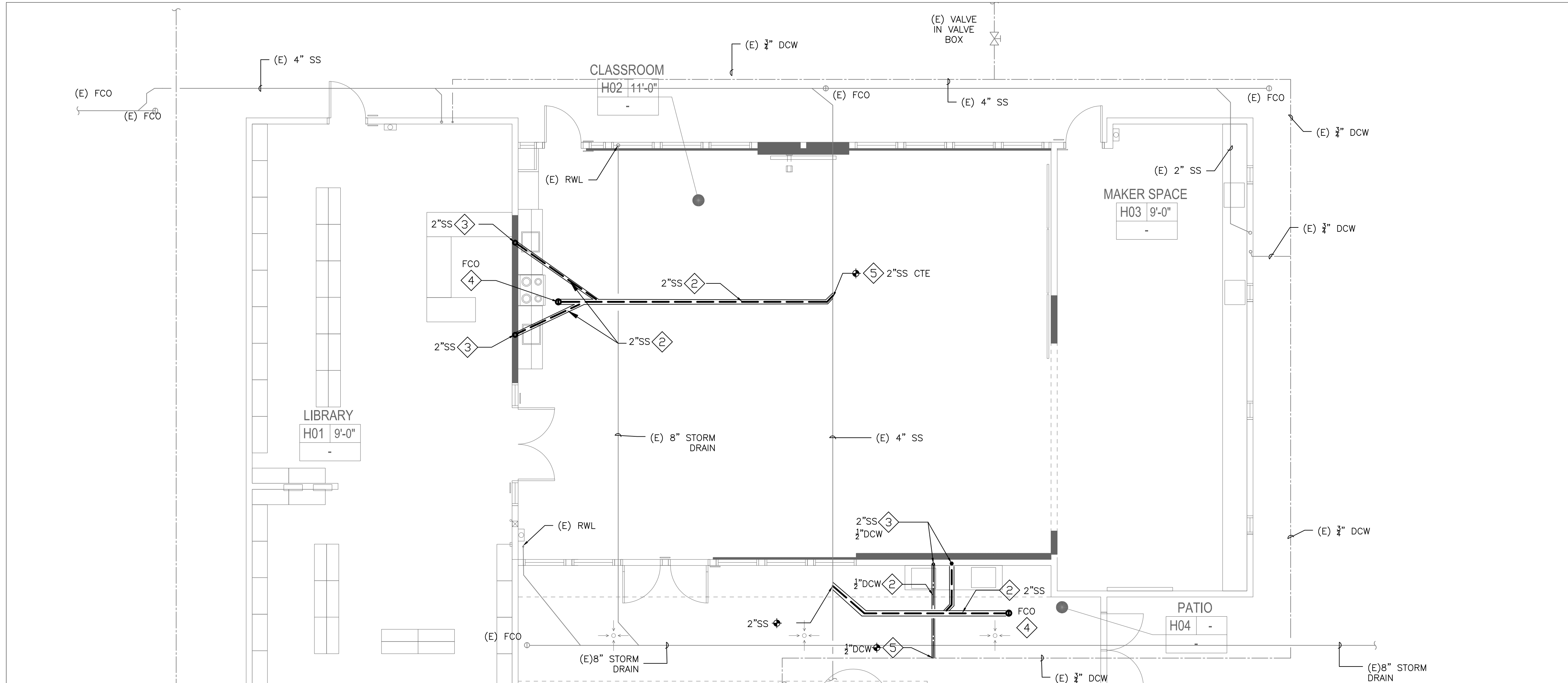
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Drawing Number

P2.1



1 PLUMBING FLOOR PLAN – ABOVEGROUND
SCALE: 1/8" = 1'0"



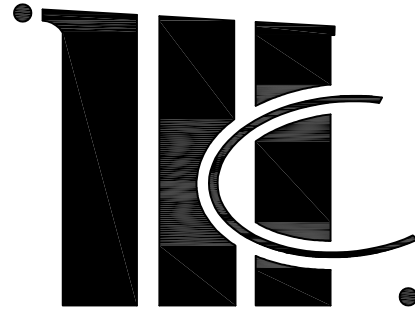
2 PLUMBING FLOOR PLAN – UNDERGROUND
SCALE: 1/8" = 1'0"

GENERAL NOTES:

1. SEE SHEET P0.1

SHEET NOTES:

- 1 PIPING INSIDE WALL.
- 2 SAWCUT SLAB FOR NEW SS/DCW UNDERGROUND PIPING. PATCH FLOOR TO MATCH EXISTING. PIPING SHOWN AT 2% SLOPE. CONTRACTOR TO FIELD VERIFY EXISTING CONDITION. USE MINIMUM 4"SS PIPING FOR PIPING LESS THAN 2% SLOPE.
- 3 RISER THRU SLAB.
- 4 PIPING UP TO CLEAN OUT.
- 5 CONTRACTOR TO FIELD VERIFY EXISTING PIPING LAYOUT. NEW WORK DESIGN BASED ON EXISTING AS-BUILT DRAWINGS FROM 1979.
- 6 PIPING IN CEILING SPACE ABOVE. COORDINATE WITH OTHER TRADES PRIOR TO INSTALLATION.
- 7 RECONNECT EXISTING DCW, SS AND SV RISERS TO NEW PLUMBING FIXTURES. PROVIDE PIPE UTILITY EXTENSIONS AS REQUIRED TO RECONNECTION OF NEW FIXTURE(S).
- 8 PLUMBING DOWN INSIDE WALL TO PLUMBING FIXTURES.



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Drawing Title

PLUMBING FLOOR PLAN -
BUILDING H

Project No. 1711 Date August 6, 2018

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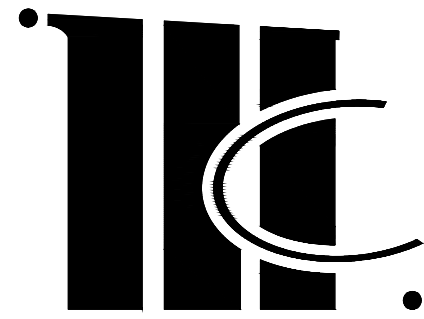
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PLUMBING DETAILS

Project No. 1711	Date August 6, 2018
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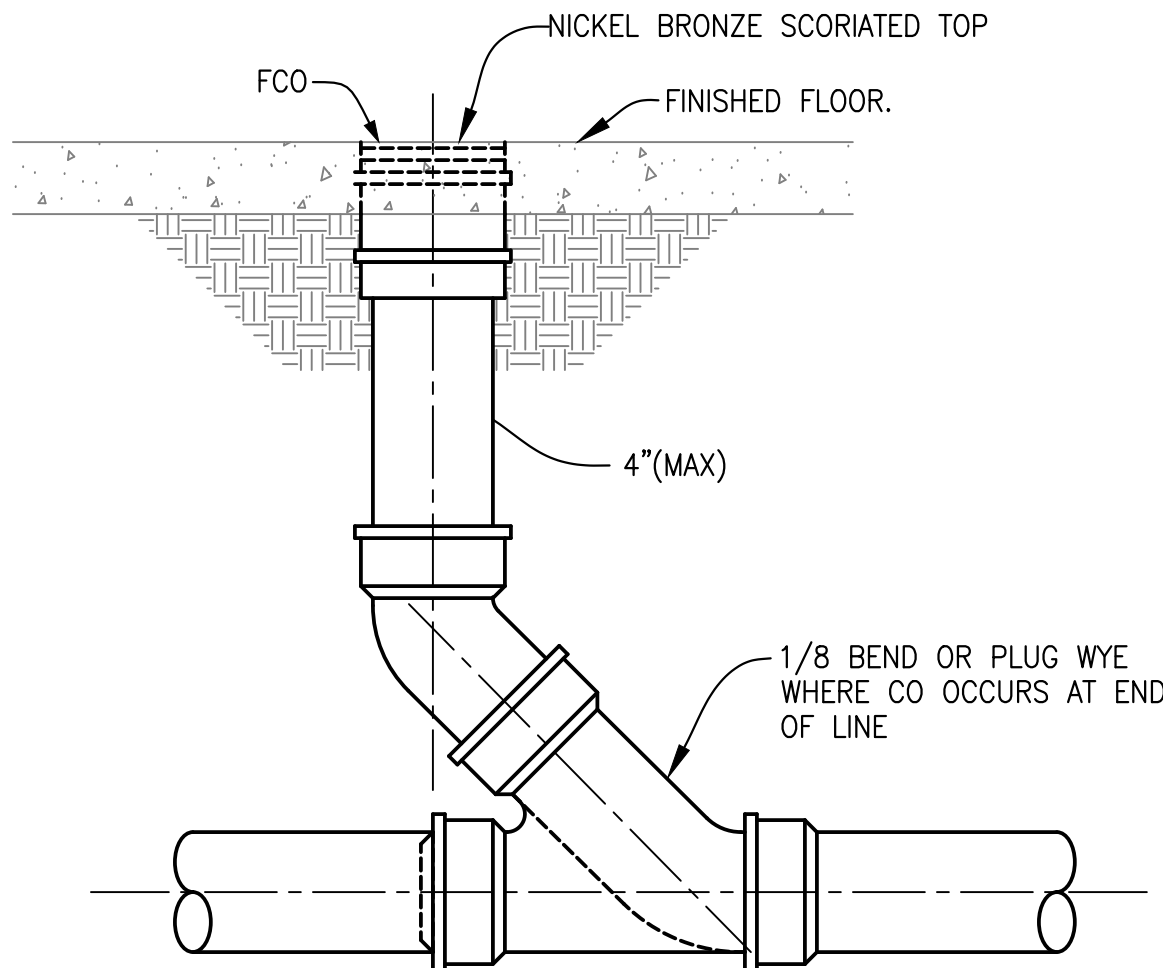
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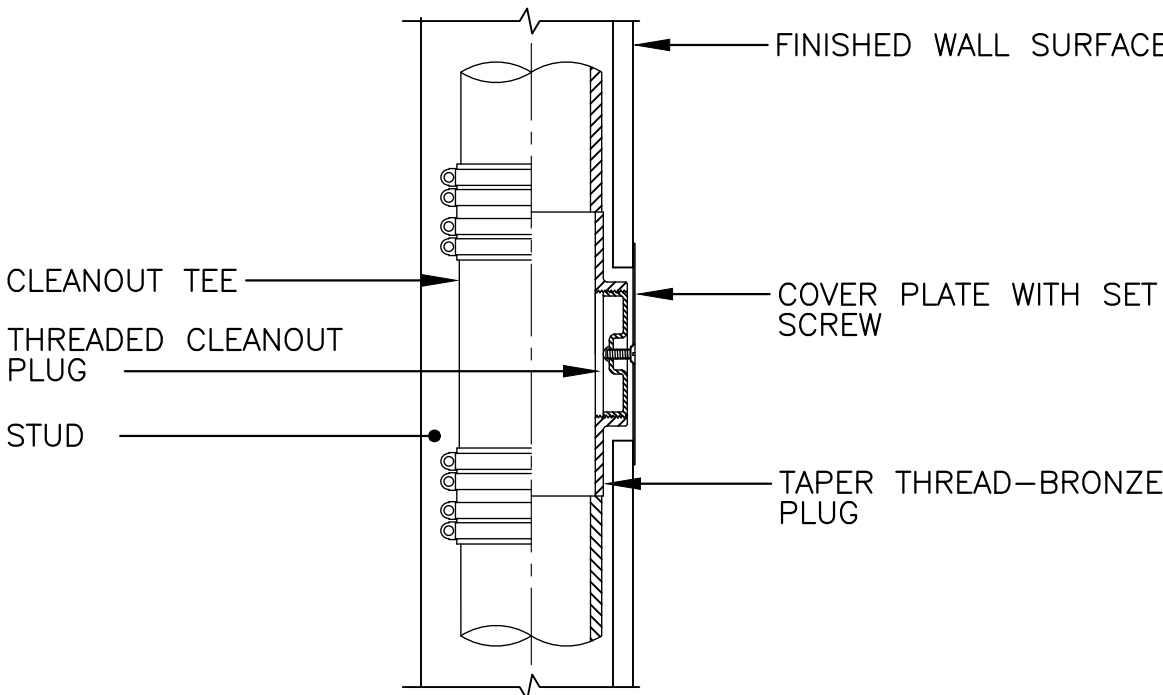
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P4.1



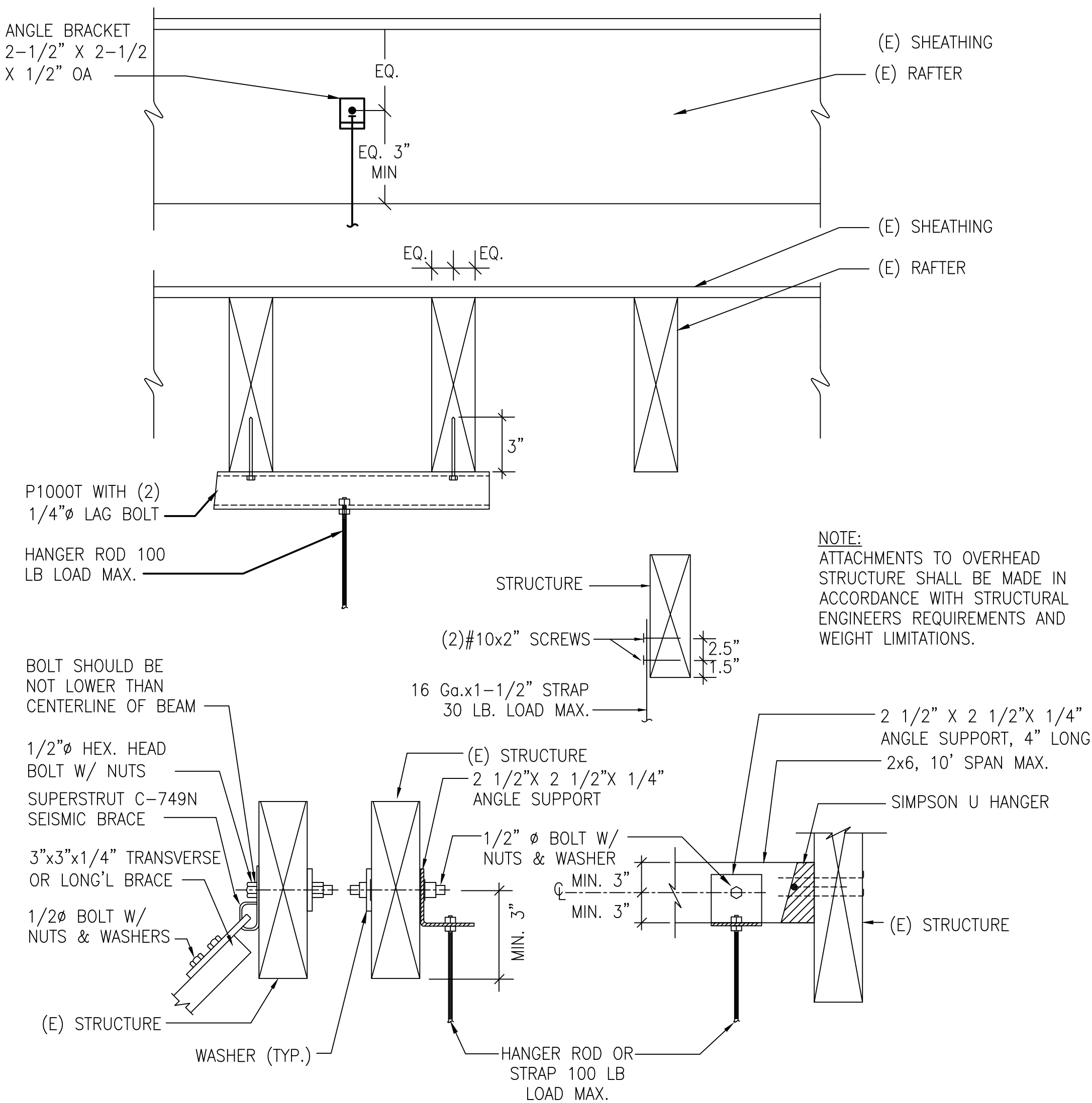
ATTACHMENT TO OVERHEAD STRUCTURAL DETAIL
NOT TO SCALE

1



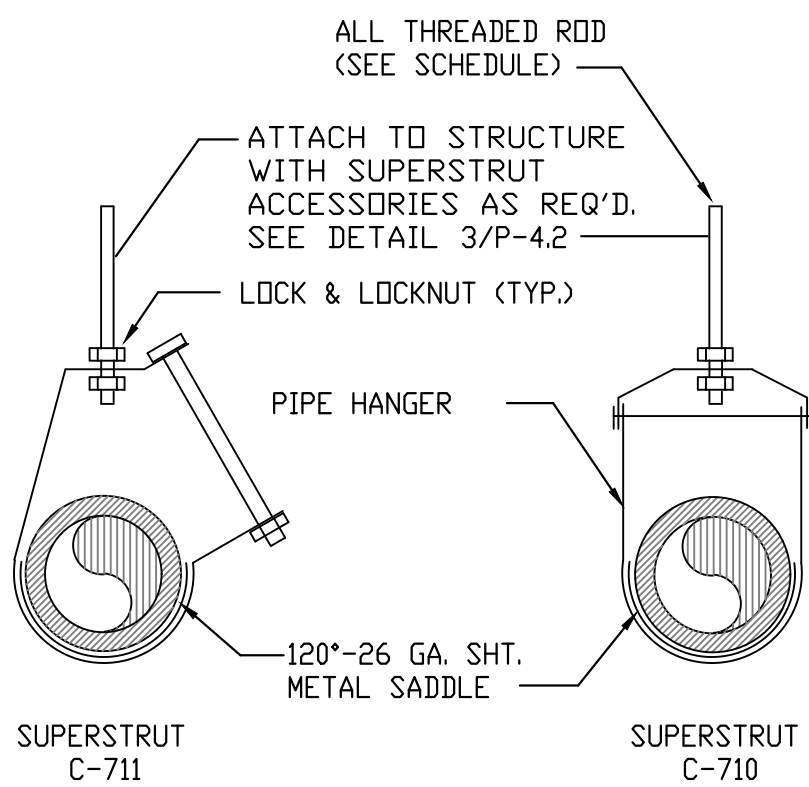
TYPICAL WALL CLEANOUT DETAIL
NOT TO SCALE

2



ATTACHMENT TO OVERHEAD STRUCTURAL DETAIL
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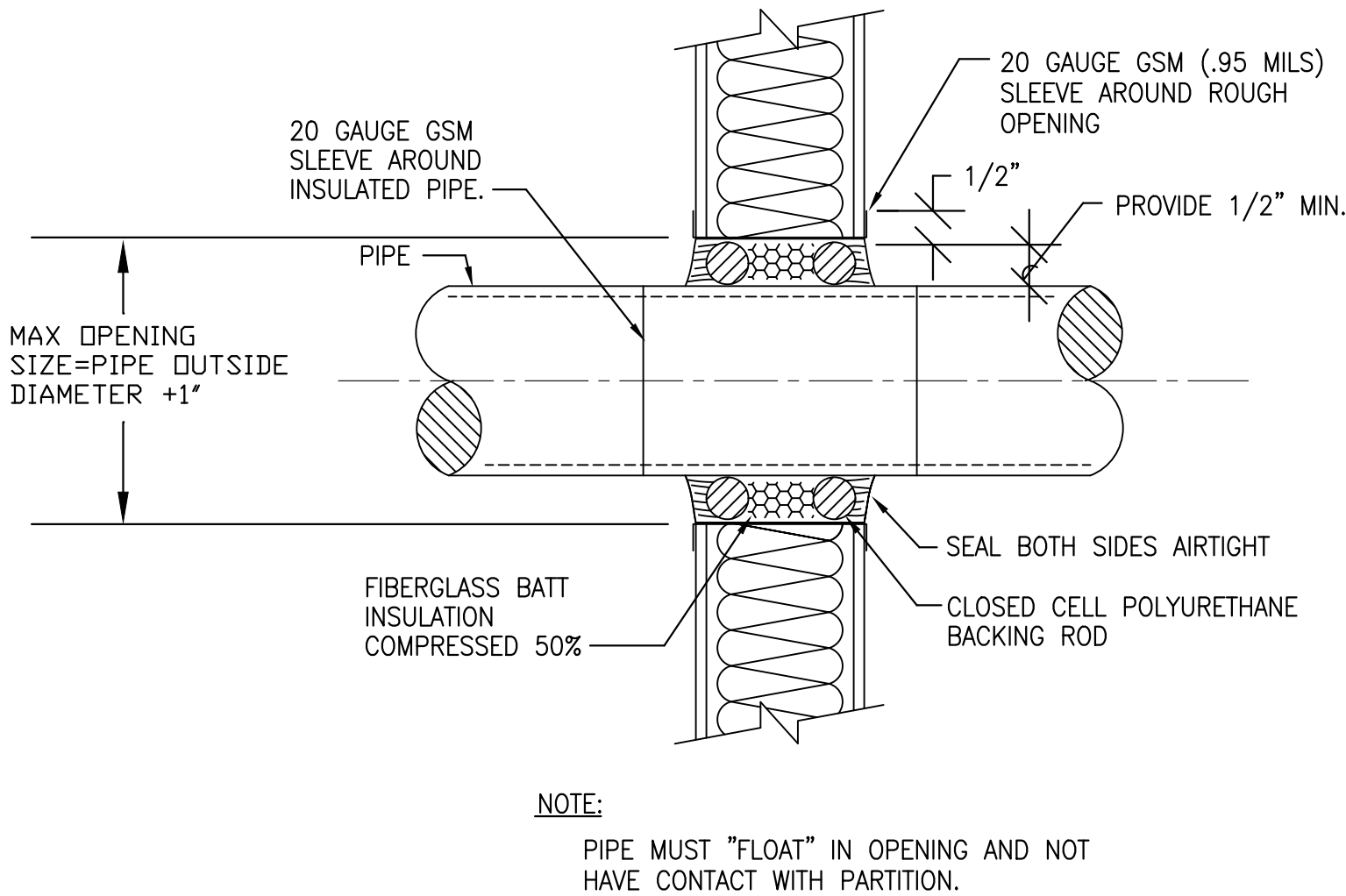
3



PIPE SIZE (IN)	MAX SUPPORT SPAN (FT)	MIN. ROD SIZE (IN)
UP TO 1'	7	3/8"
1-1/2"	9	3/8"
2 TO 2-1/2"	10	3/8"
3"	12	1/2"
3-1/2"	13	1/2"
4	14	5/8"
5	16	5/8"
6	17	3/4"

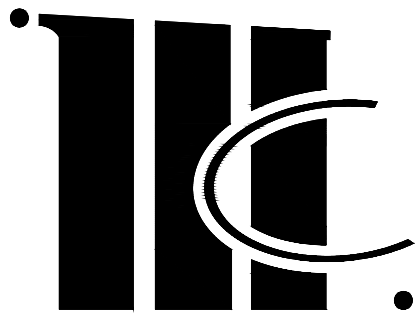
PIPE AND ATTACHMENT SUPPORT DETAIL
NOT TO SCALE

1



PIPE THRU NON-RATED PARTITION
NOT TO SCALE

2



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Drawing Number

CD P4.2

ELECTRICAL SYMBOLS

	SURFACE OR PENDANT MOUNTED FIXTURE AND OUTLET	} REFER TO FIXTURE SCHEDULE FOR EXACT TYPE
	WALL MOUNTED FIXTURE AND OUTLET	
	CEILING RECESS MOUNTED FIXTURE AND OUTLET	
	CEILING RECESS MOUNTED WALL WASHER FIXTURE	} DENOTES FIXTURE W/BATTERY PACK BACK-UP UNIT (EMERGENCY LIGHT)
	LIGHT FIXTURE	
	STRIP FIXTURE	
	UNIVERSAL MOUNTED EXIT FIXTURE AND OUTLET WITH 90 MIN. BATTERY PACK	} PROVIDE ARROW AND NUMBER OF FACES AS REQUIRED "L" DENOTES LOW LEVEL
	WALL RECESS OR SURFACE MOUNTED EXIT FIXTURE AND OUTLET WITH 90 MIN. BATTERY PACK	
	FIXTURE IDENTIFICATION TAG – SEE SCHEDULE	
	1 POLE, 20A SPECIFICATION GRADE SWITCH. MOUNTED +44" U.O.N. o INDICATES LAMP SWITCHING.	
	3 WAY, 20A SPECIFICATION GRADE SWITCH MOUNTED +44" U.O.N.	
	4 WAY, 20A SPECIFICATION GRADE SWITCH MOUNTED +44" U.O.N.	
	MOMENTARY CONTACT SWITCH MOUNTED +44" U.O.N.	
	LOW VOLTAGE LIGHTING SWITCH MOUNTED +44" U.O.N.	
	KEY OPERATED SWITCH	
	SWITCH WITH PILOT LIGHT	
	MANUAL MOTOR STARTER SWITCH FOR 3/4HP MOTORS AND BELOW	
	LED 0-10V LUTRON QS DIMMING ON/OFF SWITCH, MOUNTED +44" U.O.N.	
	CEILING MOUNTED OCCUPANCY SENSOR WITH POWER PACK, W DENOTES WALL MOUNTED AT +8" AFF U.O.N..	
	CEILING MOUNTED OCCUPANCY SENSOR WITH NO POWER PACK, W DENOTES WALL MOUNTED AT +8" AFF U.O.N.	
	CEILING MOUNTED OCCUPANCY SENSOR WITH POWER PACK	
	CEILING MOUNTED OCCUPANCY SENSOR WITH NO POWER PACK	
	WALL MOUNTED OCCUPANCY SENSOR WITH OVERRIDE DIMMINGSWITCH. MOUNTED +44" U.O.N. LUTRON OR EQUAL	
	WALL MOUNTED OCCUPANCY SENSOR WITH SINGLE ON/OFF SWITCH. MOUNTED +44" U.O.N.	
	OCCUPANCY SENSOR POWER PACK	
	JUNCTION BOX WITH COVER	
	SPECIAL RECEPTACLE OUTLET. AMPERE, VOLTAGE, PHASE AND NEMA RATING AS NOTED ON THE DRAWINGS	
	20A-120V DUPLEX RECEPTACLE OUTLET, NEMA 520R SPECIFICATION GRADE. WALL MOUNTED +18" U.O.N.	
	20A-120V DUPLEX RECEPTACLE OUTLET, NEMA 520R SPECIFICATION GRADE. MOUNTED ABOVE COUNTER SPLASH	
	20A-120V QUADRUPTEX RECEPTACLE OUTLET, NEMA 520R SPECIFICATION GRADE. MOUNTED ABOVE COUNTER SPLASH	
	20A-120V CEILING MOUNTED DUPLEX RECEPTACLE OUTLET, NEMA 520R SPECIFICATION GRADE	
	20A-120V CEILING MOUNTED QUADRUPTEX RECEPTACLE OUTLET NEMA 520R SPECIFICATION GRADE	
	20A-120V DUPLEX FLOOR RECEPTACLE OUTLET. WALKER OMNI BOX OR EQUAL WITH BRASS COVER AND FLIP CAP	
	20A-120V TWO DUPLEX RECEPTACLE OUTLET IN ONE COVER PLATE. WALL MOUNTED +18" U.O.N.	
	20A-120V DUPLEX RECEPTACLE OUTLET FLUSH MOUNTED ON WIREMOLD.	
	20A-120V TWO DUPLEX RECEPTACLE OUTLET FLUSH MOUNTED ON WIREMOLD.	
	FLOOR MOUNTED POWER FEED MONUMENT OR POKE THROUGH	
	SURFACE MOUNTED METALIC RACEWAY, 2 SECTION WITH COVER, WIREMOLD 4000 SERIES OR HUBBELL, EQUAL WITH INLINE DUPLEX RECEPTACLES / DATA OUTLET AS SHOWN U.O.N. MOUNT BOTTOM OF WIREMOLD AT +18" AFF.	
	MECHANICAL EQUIPMENT TAG – SEE MECHANICAL EQUIPMENT SCHEDULE	
	MOTOR CONNECTION	
	COMBINATION MAGNETIC MOTOR STARTER WITH NON-AUTOMATIC CIRCUIT BREAKER	
	COMBINATION MAGNETIC MOTOR STARTER WITH FUSED DISCONNECT SWITCH	
	HEAVY-DUTY FUSED DISCONNECT SWITCH, N.F. DENOTES NON FUSED, MOUNTED +6'-6" MAXIMUM	
	MECHANICAL PACKAGED EQUIPMENT WITH INTEGRAL STARTER AND CONTROL PANEL	
	MECHANICAL THERMOSTAT	
	FLUSH MOUNTED PANELBOARD – SEE SCHEDULES	
	SURFACE MOUNTED PANELBOARD – SEE SCHEDULES	
	SWITCHBOARD, DISTRIBUTION PANEL, MCC – SEE SINGLE LINE DIAGRAM	
	RECESS MOUNTED TERMINAL CABINET/CONTROL PANEL	
	SURFACE MOUNTED TERMINAL CABINET/CONTROL PANEL	
	TRANSFORMER	
	PHOTOELECTRIC CONTROL	
	POWER PULL BOX	

	CIRCUIT BREAKER
	CIRCUIT BREAKER WITH CURRENT LIMITING FUSES – SIZE AS SHOWN ON PLANS
	CURRENT TRANSFORMER
	WATT/HOUR METER
	VOLT/AMP METER
	NEUTRAL LINK
	TRANSFORMER
	COPPER WELD GROUND ROD AND INSPECTION WELL – SEE TYPICAL DETAIL ON PLANS
	BARE COPPER GROUND CABLE BURIED 24" MINIMUM BELOW FINISH GRADE U.O.N.
	CONDUIT AND CONDUCTORS INSTALLED UNDERGROUND OR BELOW SLAB
	CONDUIT AND CONDUCTORS CONCEALED IN WALL OR CEILING
	CONDUIT AND CONDUCTORS INSTALLED EXPOSED
	HOMERUN TO SWITCHBOARD, PANELBOARD, TERMINAL CABINET, ETC.
	WIRING TURNED UP
	WIRING TURNED DOWN
	CONDUIT OR DUCT STUB AND CAP
	CONDUIT SEAL CROUSE-HINDS "EYS"
	FLEXIBLE RACEWAY
	WALL MOUNTED BELL

	TELEPHONE OUTLET, WALL MOUNTED +44" U.O.N. WITH BACKBOX AND 1" TO ACCESSIBLE CEILING SPACE OR MOUNTED ON SURFACE WIREWAY AS SHOWN ON PLAN
	DATA DUAL JACKS OUTLET, WALL MOUNTED +18" U.O.N. WITH BACKBOX AND 1" TO ACCESSIBLE CEILING SPACE OR MOUNTED ON SURFACE WIREWAY AS SHOWN ON PLAN. W DENOTES FOR WIRELESS ACCESS MTD. +10' AFF
	TEL/DATA OUTLET, WALL MOUNTED +18" U.O.N. WITH BACKBOX AND 1" TO ACCESSIBLE CEILING SPACE OR MOUNTED ON SURFACE WIREWAY AS SHOWN ON PLAN
	FLOOR TELE/COMMUNICATION OUTLET
	WALL FLUSH MOUNTED SPEAKER WITH BACKBOX AND 3/4" OR SURFACE WIREWAY CONNECTION
	WALL FLUSH MOUNTED CLOCK WITH BACKBOX AND 3/4" OR SURFACE WIREWAY CONNECTION
	WALL SURFACE MOUNTED CLOCK/SPEAKER COMBINATION UNIT WITH BACKBOX AND 3/4" TO ACCESSIBLE CEILING SPACE. MOUNT CENTER OF BOX AT +8" AFF U.O.N.
	AV OUTLET, WALL MOUNTED WITH EXTRA DEEP BOX AND 1 1/2" TO ACCESSIBLE CEILING SPACE OR WITH SURFACE WIREWAY CONNECTION.
	AV PIXIE CONTROL, WALL MOUNTED WITH BACKBOX AND 1" TO ADJACNET AV INPUT OUTLET.
	CEILING MOUNTED LCD PROJECTOR
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	TAMPER SWITCH
	FLOW SWITCH
	FIRE ALARM MONITOR MODULE
	FIRE ALARM HORN, WP DENOTES OUTDOOR TYPE MOUNTED MIN. OF 90" AFF.
	FIRE ALARM STROBE.
	FIRE ALARM HORN/STROBE.
	SMOKE DETECTOR
	HEAT DETECTOR
	SHEET NOTE IDENTIFICATION TAG, SEE RESPECTIVE "SHEET NOTES"
	TELEVISION OUTLET, WALL MOUNTED WITH BACKBOX AND 1" TO ACCESSIBLE CEILING SPACE
	SECURITY/INTRUSTION KEYPAD

DRAWING INDEX

E0.1	ELECTRICAL SYMBOLS, ABBREVIATIONS, GENERAL NOTES AND DRAWING INDEX
E0.2	TITLE 24 COMPLIANCE – LIGHTING
E1.1	ELECTRICAL SITE PLAN
E2.1	ELECTRICAL PLANS
E4.1	DETAILS
E7.1	FIRE ALARM DETAILS
E7.2	FIRE ALARM RISER AND CALCULATIONS

ABBREVIATIONS

A, AMPS	AMPERES
A/C	AIR CONDITIONER
AC	ALTERNATE CURRENT
AF	AMPERE FRAME
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTION CURRENT
AL	ALUMINUM
APP.	APPROXIMATE
ARCH	ARCHITECT/ARCHITECTURAL
AT	AMPERES TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BKBD	BACKBOARD
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CC	CENTER TO CENTER
CAB.	CABINET
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CO	CONDUIT ONLY
CTR	CENTER
CU	COPPER
DC	DIRECT CURRENT
DET.	DETAIL
DIA	DIAMETER
DIST	DISTRIBUTION
DN	DOWN
DP	DISTRIBUTION PANEL
DWG	DRAWING
EMERG	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE/ENCLOSED
ELR	END-OF-LINE RESISTOR
EPO	EMERGENCY POWER OFF
EQ	EQUAL
EQUIP	EQUIPMENT
EW	ELECTRIC WATER COOLER
<E>	EXISTING TO REMAIN
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPERES
FLEX	FLEXIBLE
FUT, <F>	FUTURE
G	GROUND
GALV	GALVANIZED
GRS	GALVANIZED RIGID STEEL
GFI	GROUND FAULT INTERRUPTER
HD	HEAT DETECTOR
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HO	HIGH OUTPUT
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HSP	HOUSE SERVICE PANEL
HV	HIGH VOLTAGE
HZ	HERTZ
IC	INTERCOM
ISC	INTERRUPTING SHORT CIRCUIT
IG	ISOLATED GROUND
INST	INSTANTANEOUS
JB	JUNCTION BOX
KCMIL	KILO CIRCULAR MILLS
KV	KILOVOLTS
KVA	KILOVOLT-AMPERES
KW	KILOWATTS
KWH	KILOWATT-HOURS
LCP	LIGHTING CONTROL PANEL
LPS	LOW PRESSURE SODIUM
LIT	LIGHTING
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MFG	MANUFACTURING
MFR	MANUFACTURER
MECH	MECHANICAL
MH	MANHOLE
MIC	MICROPHONE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTD	MOUNTING HEIGHT
MTG.	HT. MOUNTING
MSB	MAIN SWITCHBOARD
MSG	MAIN SWITCH GEAR
<N>	NEW
N	NEUTRAL
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN, NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OH	OVERHEAD
P	POLE
PH, Ø	PHASE
PA	PUBLIC ADDRESS
PB	PUSHBUTTON
PDU	POWER DISTRIBUTION UNIT
PNL	PANEL
PVC	POLYVINYL CHLORIDE
<R>	REMOVED
<RE>	NEW LOCATION OF RELOCATED DEVICE
REC	RECEPTACLE
REC'D	REQUIRED
<RL>	EXISTING TO BE RELOCATED
RS	RAPID START
RSC	RIGID STEEL CONDUIT
SEC	SECONDARY
SN	SOLID NEUTRAL
SPECS	SPECIFICATIONS
STD	STANDARD
SWBD	SWITCHBOARD
TEL	TELEPHONE
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT-AMPERES
W	WATTS, WIRE
WH	WATER HEATER
WP	WEATHERPROOF
WT	WATERTIGHT
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
+4-6"	TYPICAL MOUNTING HEIGHT 4'-6" ABOVE FLOOR OR GRADE TO CENTER OF BOX

GENERAL NOTES

- ALL ELECTRICAL WORK SHALL COMPLY WITH THE CURRENT APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE, AS ACCEPTED AND AMENDED BY LOCAL ORDINANCES.
- ANY EQUIPMENT AND MATERIALS FURNISHED BY THE CONTRACTOR SHALL BE NEW, UNUSED AND FREE FROM DEFECTS.
- CONTRACTOR SHALL VERIFY FINAL PLACEMENT AND CONNECTION REQUIREMENTS PRIOR TO ROUGHING IN EQUIPMENT UTILITIES.
- FINAL ACCEPTANCE OF WORK IN PLACE SHALL BE SUBJECT TO APPROVAL BY OWNER'S REPRESENTATIVE AND ARCHITECT/ENGINEER. INSTALLATION APPROVAL SHALL BE BASED ON APPROVED SUBMITTAL, SHOP DRAWINGS AND LOCAL INSPECTIONS.
- ALL WORK SHOWN ON DRAWINGS IS IN PART SCHEMATIC, INTENDED TO CONVEY SCOPE OF WORK AND GENERAL LAYOUT. VERIFY ALL EXISTING CONDITIONS AND MAKE ADJUSTMENTS AS REQUIRED.
- CONTRACTOR SHALL PROVIDE UPDATED/CORRECTED PANEL DIRECTORIES WITHIN EACH PANELBOARD PRIOR TO FINAL ACCEPTANCE OF WORK IN PLACE.
- BRANCH CIRCUIT RACEWAY SHALL BE A MINIMUM OF 3/4" ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE NOTED. RACEWAYS IN RAISED FLOOR OR IN PLENUM SPACE SHALL BE A MINIMUM OF 3/4" RIGID GALVANIZED STEEL (RGS) OR RIGID ALUMINUM (RAL) UNLESS OTHERWISE NOTED. RACEWAY BETWEEN RECESSED LIGHT FIXTURES SHALL BE A MINIMUM OF 1/2" FLEXIBLE STEEL METAL CONDUIT UNLESS OTHERWISE NOTED.
- ALL INTERIOR OUTLETS, JUNCTION AND PULL BOXES SHALL BE METALLIC, SIZED PER CODE FOR THE NUMBER OF CONDUCTORS THEREIN.
- ALL ELECTRICAL RACEWAYS SHALL BE CONCEALED IN THE WALLS AND ABOVE SUSPENDED CEILING OR BELOW RAISED FLOOR UNLESS OTHERWISE NOTED.
- ALL CONDUCTORS SHALL BE #12 AWG MINIMUM TYPE THHN/THWN UNLESS NOTED OTHERWISE.
- PROVIDE AND INSTALL MISCELLANEOUS STEEL FOR PROPER INSTALLATION OF THE ELECTRICAL EQUIPMENT. DETAILS OF THE STEEL SUPPORTS SHALL BE INDICATED ON THE SHOP DRAWINGS SUBMITTED FOR APPROVAL.
- MC CABLE IS NOT ACCEPTABLE FOR ANY ELECTRICAL INSTALLATION.

SCHOOL EQUIPMENT ANCHORAGE NOTE

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY OR MOVABLE EQUIPMENT ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED PIPING, AND CONDUIT.

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THESE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

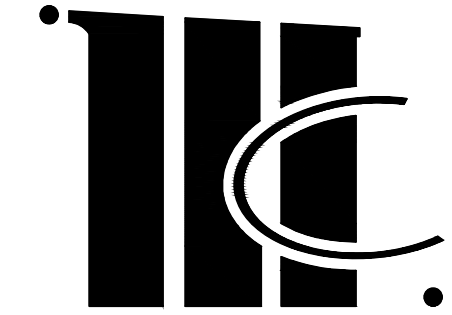
ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8 AND 2016 CBC, SECTIONS 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

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

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM OR OSP) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

ELECTRICAL DISTRIBUTION SYSTEM:

- ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
- ☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) # _____.
- ☐ OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL _____ AND CONNECTION LEVEL _____ FOR THE PROJECT AND CONDITIONS.

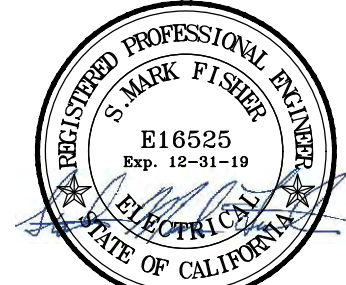


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SYDNEY • MELBOURNE • DUBLIN • CORK • LONDON • DUBAI
At Project No. 218244



Date Signed 10/10/2018

Architect Seal

Project Title

Toyon Elementary School

995 Bard St.
San Jose, CA 95127

FLEXIBLE INSTRUCTION
SPACE

Client

Berryessa Union School District
1376 PIEDMONT RD.
SAN JOSE, CA 95132

No	Revisions/Submissions	Date
	DSA Submittal	08/06/18
	DSA Back-Check	10/11/18

Drawing Title

ELECTRICAL SYMBOLS,
ABBREVIATION, GENERAL NOTES &
DRAWING INDEX

Project No. 1711 Date August 6, 2018

Regulatory Agency Approval

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPL 01-117713
ACS _____ FLS _____ SSS _____

DATE _____

File: 43-7


Drawing Number

CD

E0.1

STATE OF CALIFORNIA INDOOR LIGHTING DECARBONIZATION THROUGH DESIGN CERTIFICATE OF COMPLIANCE Indoor Lighting		CALIFORNIA ENERGY COMMISSION NREL-17-02-0 (Page 1 of 6)	
Project Name: Troyon Elementary School		Date Prepared: 8/2/2018	
A. General Information			
Climate Zone:	Conditioned Floor Area: 3,079		
4	Unconditioned Floor Area: 0		
Building type:	<input checked="" type="checkbox"/> Nonresidential	<input type="checkbox"/> High-Rise Residential	<input type="checkbox"/> Hotel/Motel
<input type="checkbox"/> Schools	<input type="checkbox"/> Relocatable Public Schools	<input checked="" type="checkbox"/> Conditioned Spaces	<input type="checkbox"/> Unconditioned Spaces
Phase of Construction:	<input type="checkbox"/> New Construction	<input type="checkbox"/> Addition	<input checked="" type="checkbox"/> Alteration
Method of Compliance:	<input type="checkbox"/> Complete Building	<input checked="" type="checkbox"/> Area Category	<input type="checkbox"/> Tailored
Project Address: 995 Bard St., San Jose, CA, 95127			
B. Lighting Compliance Documents (select yes for each document included)			
For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the <i>Nonresidential Manual</i> published by the California Energy Commission.			
YES	NO	COMP. DOC.	TITLE
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NREL-17-01-01	Certificate of Compliance - All Pages required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NREL-17-01-02	Lighting Calculations, Certificate of Compliance, and PMF Calculations. All Pages required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NREL-17-01-03	Indoor Lighting Power Allowance
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NREL-17-04-01	Tailored Method Worksheets
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NREL-17-05-01	Line Voltage Track Lighting Worksheets
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NREL-17-06-01	Indoor Lighting Existing Conditions

STATE OF CALIFORNIA
INDOOR LIGHTING
 (SCHEDULE 130-101-EI-01-E)
 CERTIFICATE OF COMPLIANCE
 Indoor Lighting
 Project Name: **Troyon Elementary School**



CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS
 NRCCT-LT-01-EI-01
 (Page 5 of 6)

Date Prepared: **8/2/2018**

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:

☒ CONDITIONED SPACE
☐ UNCONDITIONED SPACE

H. Indoor Lighting Schedule and Field Inspection Exercise Checklist									
Luminaire Schedule			Installed Watts				Location	Field Inspector ¹	
01	02	03	04	05	06	07	08		
Name or Item Tag	Complete Luminaire Description (i.e., 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	CCC Catalog Item Number	Accounting ID (SUS200)	Number of Luminaires	Watts in this area (1003 x 1003 x 1003)	Primary Function area in which these luminaires are installed	Pass	Fail
A/A1	4ft Recessed Mounted Led Pendant	28.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	36	1,019	Classroom, Lecture, Training	<input type="checkbox"/>	<input type="checkbox"/>
B	High Performance Led Pendant	57.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18	912	Library, Reading Area	<input type="checkbox"/>	<input type="checkbox"/>
C	4in Recessed Led Downlight	16.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5	81	Library, Reading Area	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
INSTALLED WATTS PAGE TOTAL:						2,012	Enter sum total of all pages into NRCCT-LT-01-E, Page 2		

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
 (PER NCCCA-1716-DW-001)
CERTIFICATE OF COMPLIANCE
 Certificate of Compliance - Indoor Lighting Power Allowance
 Project Name: Toyon Elementary School

CALIFORNIA ENERGY COMMISSION
 NCCCA-1716-DW-001
 (Page 1 of 4)

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:

☒ CONDITIONED spaces ☐ UNCONDITIONED spaces

Issue Number: 8/2/2018

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES

☐ If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.

☐ If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts.

	(a)	(b)
01. Complete Building Method Allowed Watts. Documented in section B of NCCCA-1716-E (below on this page)		3,548
02. Area Category Method Allowed Watts. Documented in section C-1 of NCCCA-1716-E (below on this page)		0
03. Tailored Method Allowed Watts. Documented in section A of NCCCA-1716-E		3,548
04. TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NCCCA-1716-Q1, Page 1, Row 1		3,548
<input type="checkbox"/> Check here if building contains both conditioned and unconditioned areas.		

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

01	02	X	03	04
TYPE OF BUILDING (From \$140.6 Table 140.6-B)	WATTS PER SQ FT		COMPLETE BLDG. AREA	= ALLOWED WATTS
			Total Area:	
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)				

C-1. AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES

	Watts
Total from section C-2: 3,548	
Total from section C-3: 0	
Total Watts. Enter Total Watts into section A, row 2 (Above on this page): 3,548	

For Additions Only – Reduced lighting power option (Total Allowed Watts < 0.85). Enter this value into section A, row 2 if using this option.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

<div style="display: flex; justify-content: space-between;"> <div> SEAL OF CALIFORNIA INDOOR LIGHTING <small>SEAL ACTING LITE OF Chapter 06101</small> <small>(CERTIFICATE OF COMPLIANCE)</small> Indoor Lighting Project Name: Toyon Elementary School </div> <div style="text-align: right;"> CALIFORNIA ENERGY COMMISSION <small>INDOOR LIGHTING</small> <small>INDOOR LITE 01.06</small> (Page 2 of 6) </div> </div>	
C. Summary of Allowed Lighting Power Conditioned and Unconditioned spaces Lighting must not be combined for compliance	
	Indoor Lighting Power for Conditioned Spaces <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 48%;"> Installed Lighting Power 01 <small>NRCC-LT11-02 - Table 1, page 1</small> Portable Lighting + 2,012 02 <small>NRCC-LT11-02 - Table 6, page 1</small> Installed Lighting for Offices + 03 <small>NRCC-LT11-02 - Table 6, page 1</small> Minus Lighting Control Credits - <small>NRCC-LT11-02 - Table 6, page 2</small> Adjusted Installed Lighting Power = 2,012 <small>(Flow plus row 2 minus row 3)</small> Complex 001 of Installed = Allowed (Box 04 - Row 05) </div> <div style="width: 48%;"> Watts 2,012 0 - 0 + 2,012 </div> </div>

 Indoor Lighting Power for Unconditioned Spaces **Installed Lighting Power** 01 NRCC-LT11-02 - Table 1, page 1 **Portable Lighting** + **2,012** 02 NRCC-LT11-02 - Table 6, page 1 **Installed Lighting for Offices** + 03 NRCC-LT11-02 - Table 6, page 1 **Minus Lighting Control Credits** - NRCC-LT11-02 - Table 6, page 2 **Adjusted Installed Lighting Power** = **2,012** (Flow plus row 2 minus row 3) Complex 001 of Installed = **Allowed (Box 04 - Row 05)** **Watts** **2,012** **0** **- 0** **+ 2,012** || 05 | **Allowed Lighting Power** Conditioned NRCC-LT11-06 - page 1 50/50% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LT11-06, page 2 **3,548** **Allowed Lighting Power** Unconditioned NRCC-LT11-03 - page 1 50/50% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LT11-06, page 2 | 0 |

STATE OF CALIFORNIA OFFICE OF INDOOR LIGHTING – LIGHTING CONTROLS		CALIFORNIA ENERGY COMMISSION																																							
SCHEMATICALLY APPROVED CERTIFICATE OF COMPLIANCE		NRC-CLT-02-01 (Page 1 of 3)																																							
Project Name: <u>Troyan Elementary School</u>		Date Issued: <u>5/2/2018</u>																																							
<p>A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)</p> <table border="1"> <thead> <tr> <th>YES</th> <th>NO</th> <th>Control Requirements</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Lighting shall be controlled by a self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 1510.9.</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Lighting shall be controlled by a lighting control system or energy management control system in accordance with §1510.9. An installation Certificate shall be submitted in accordance with Section 130.4(b).</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>One or more Track Lighting Integral Control Traps shall be installed which have been certified to the Energy Commission in accordance with §1510.9 and §130.2. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>All lighting controls and equipment shall comply with the applicable requirements in §1510.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a).</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall, display window, display case, display, counter, and special effects lighting shall each be separately controlled on circuits that are 20 amperes or less. When track lighting is used, general, display, ornamental, and special effect lighting shall be separately controlled in accordance with Section 130.1(a).</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>The greatest lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>All installed indoor lighting shall be equipped with controls that meet the applicable Switch-OFF control requirements in Section 130.1(c).</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylight zones are shown on the plans.</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is started for normal use, indoor lighting controls serving the building, area, or site shall be certified at meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4 (a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-off controls, and demand responsive controls.</td> </tr> </tbody> </table>			YES	NO	Control Requirements	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lighting shall be controlled by a self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 1510.9.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §1510.9. An installation Certificate shall be submitted in accordance with Section 130.4(b).	<input type="checkbox"/>	<input checked="" type="checkbox"/>	One or more Track Lighting Integral Control Traps shall be installed which have been certified to the Energy Commission in accordance with §1510.9 and §130.2. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).	<input type="checkbox"/>	<input checked="" type="checkbox"/>	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).	<input type="checkbox"/>	<input checked="" type="checkbox"/>	All lighting controls and equipment shall comply with the applicable requirements in §1510.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a).	<input type="checkbox"/>	<input checked="" type="checkbox"/>	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall, display window, display case, display, counter, and special effects lighting shall each be separately controlled on circuits that are 20 amperes or less. When track lighting is used, general, display, ornamental, and special effect lighting shall be separately controlled in accordance with Section 130.1(a).	<input type="checkbox"/>	<input checked="" type="checkbox"/>	The greatest lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).	<input type="checkbox"/>	<input checked="" type="checkbox"/>	All installed indoor lighting shall be equipped with controls that meet the applicable Switch-OFF control requirements in Section 130.1(c).	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylight zones are shown on the plans.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is started for normal use, indoor lighting controls serving the building, area, or site shall be certified at meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4 (a). 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YES	NO	Control Requirements																																							
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STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE <small>(GCC/NCC-110-E) Form 6/15 </small>		 CALIFORNIA ENERGY COMMISSION NRCCT-LTI-03-E <small>(Page 1 of 4)</small>				
CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Lighting Power Allowance		Project Name: Toyon Elementary School Date Submitted: 8/2/2018				
A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for: <input checked="" type="checkbox"/> CONDITIONED spaces <input type="checkbox"/> UNCONDITIONED spaces						
C-2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE <input type="checkbox"/> Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCCT-LTI-01-E. <input checked="" type="checkbox"/> Separately list lighting for each primary function area as defined in §100.1 of the Standards.						
AREA CATEGORY (From §140.6 of Table 140.6-C)		G2 WATTS PER Ft ²	X	G3 AREA (ft ²)	=	G4 ALLOWED WATTS
Location in Building	Primary Function Area per Table 140.6-C					
Library	Library, Reading Area	1.10		1,471		1,616
Classroom	Classroom, Lecture, Training	1.20		1,608		1,930
TOTALS:				3,079		
Enter sum total Area Category allowed watts into section C-1 of NRCCT-LTI-03-E (this compliance document)						3,548

STATE OF CALIFORNIA INDOOR LIGHTING (SEE INSTRUCTIONS TO BE FILLED OUT DETAIL) CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRC-121-01.1 (Page 3 of 6)
Project Name: Troyon Elementary School		Date Prepared: 8/22/2018
E. Declaration of Required Certificates of Acceptance Declare by electing yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)		
YES	NO	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-171-02-A - Must be submitted for occupancy sensors and automatic time switch controls. <input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input type="checkbox"/>	NRCA-171-03-A - Must be submitted for occupancy demand; daylight controls. <input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input type="checkbox"/>	NRCA-171-04-A - Must be submitted for demand responsive lighting controls. <input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input type="checkbox"/>	NRCA-171-05-A - Must be submitted for institutional tuning power adjustment factor (PAF). <input type="checkbox"/> Field Inspector
A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for: <input checked="" type="checkbox"/> CONDITIONED SPACE <input type="checkbox"/> UNCONDITIONED SPACE		
F. Indoor Lighting Schedule and Field Inspection Energy Checklist <input checked="" type="checkbox"/> The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems. <input type="checkbox"/> When Complete Building Method is used for compliance, list each different type of luminaire on separate lines. <input type="checkbox"/> When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines. <input type="checkbox"/> Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-171-05-E) when line-voltage track lighting is installed.		

STATE OF CALIFORNIA RESIDENTIAL LIGHTING – LIGHTING CONTROLS <small>RECORDS UNIT-11-02-E</small> CERTIFICATE OF COMPLIANCE Indoor Lighting - Lighting Controls Issued by _____ Location _____ Tuyen Elementary School										 CALIFORNIA ENERGY COMMISSION <small>NRC-11-02-E</small> <small>(Page 2 of 3)</small>									
										Date Received: 8/22/2018									
A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following: <input checked="" type="checkbox"/> CONDITIONED SPACES <input type="checkbox"/> UNCONDITIONED SPACES																			
B. Mandatory and Prescriptive Indoor Lighting Schedule, PAF Calculation, and Field Inspection Checklist																			
Lighting Control Schedule				Standards Complying With "1" (* all that apply, or enter "N if Exempted")							PAF Credit Calculation								
01	02	03	# of Units	\$130.00/1	\$130.00/2	\$130.00/3	\$130.00/4	\$130.00/5	\$130.00/6	\$130.00/7	\$130.00/8	\$130.00/9	\$130.00/10	Weeks of Lighting Control	PAF	Control Credit	% of Acceptance	Text Required	Field Inspector
Location in Building	Type/Description of Lighting Control (i.e., occupancy sensor, automatic time switch, dimmer, automatic daylighting, etc...)	# of Units																	
Classroom, Library, Fab/Lab, Musical Area	1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Classroom, Library, Fab/Lab, Multi-Level	1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Classroom, Library, Fab/Lab, Occupancy Sensor	1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Classroom, Library, Fab/Lab, Automatic Daylighting	1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Classroom, Library, Fab/Lab, Secondary Daylighting	1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Control Credits Page TOTAL: (Sum of Column 13):														0					
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF CONTROL CREDIT FOR ALL PAGES HERE (Sum of Total Column 13):														0					
Enter Control Credit total into NCRC-11-02-E, Page 1.																			
<p>1. \$130.00 = Manual area controls; \$130.00(1) = Multi-level; \$130.00(2) = Auto Shut-Off; \$130.00(4) = Mandatory Daylighting; \$130.00(6) = Demand Responsive; \$140.00(6) = Additional lighting controls installed to earn a PAF; \$140.00(5) = Prescriptive Secondary Sidelight Daylighting Controls.</p> <p>2. Check Table 4.0.6.6 for correct factor. As condition can not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled-out, signed, and submitted.</p>																			

[illegible]

STATE OF CALIFORNIA
INDOOR LIGHTING
 CEC-ATC-11.10-1-E (Pretest 06/10)
 CERTIFICATE OF COMPLIANCE
 Indoor Lighting
 Project Name: **Toyon Elementary School**

OFFICE OF THE CALIFORNIA ENERGY COMMISSION
 NRCCT-11-01-E
 (Page 4 of 6)
 Date Prepared: **8/22/18**

6. Installed Portable Luminaires in Offices – Exception to Section 140.6(a)

☐ This section shall be filled out ONLY for portable luminaires in Offices (As defined in 5100.1). At all other planned portable luminaires shall be documented on next page of this compliance document.

☐ This section shall be determined if greater than 0.3 watts of portable lighting is planned for any office




☐ Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be treated between offices having different lighting systems.

Office Portable Luminaires Schedule	Office Installed Portable Luminare W/m ²	Office Location	Field Inspector
1	2	3	4
Complete Luminare Description (i.e., LED, under cabinet, luminaire mounted direct/indirect)	Watts per luminaire	Installed portable luminare watts in office (002 x 003)	Source-foot of this office
		Watts per square foot (004 / 003)	if 002 x 0.3, enter zero; if 002 x 0.3, (006 - 0.3)
			005 x 007
			Identify Office in which these portable luminaires are installed
			Pass
			Fail
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>

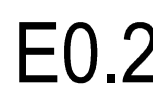
Total installed portable luminare watts that are greater than 0.3 W/m² per office:

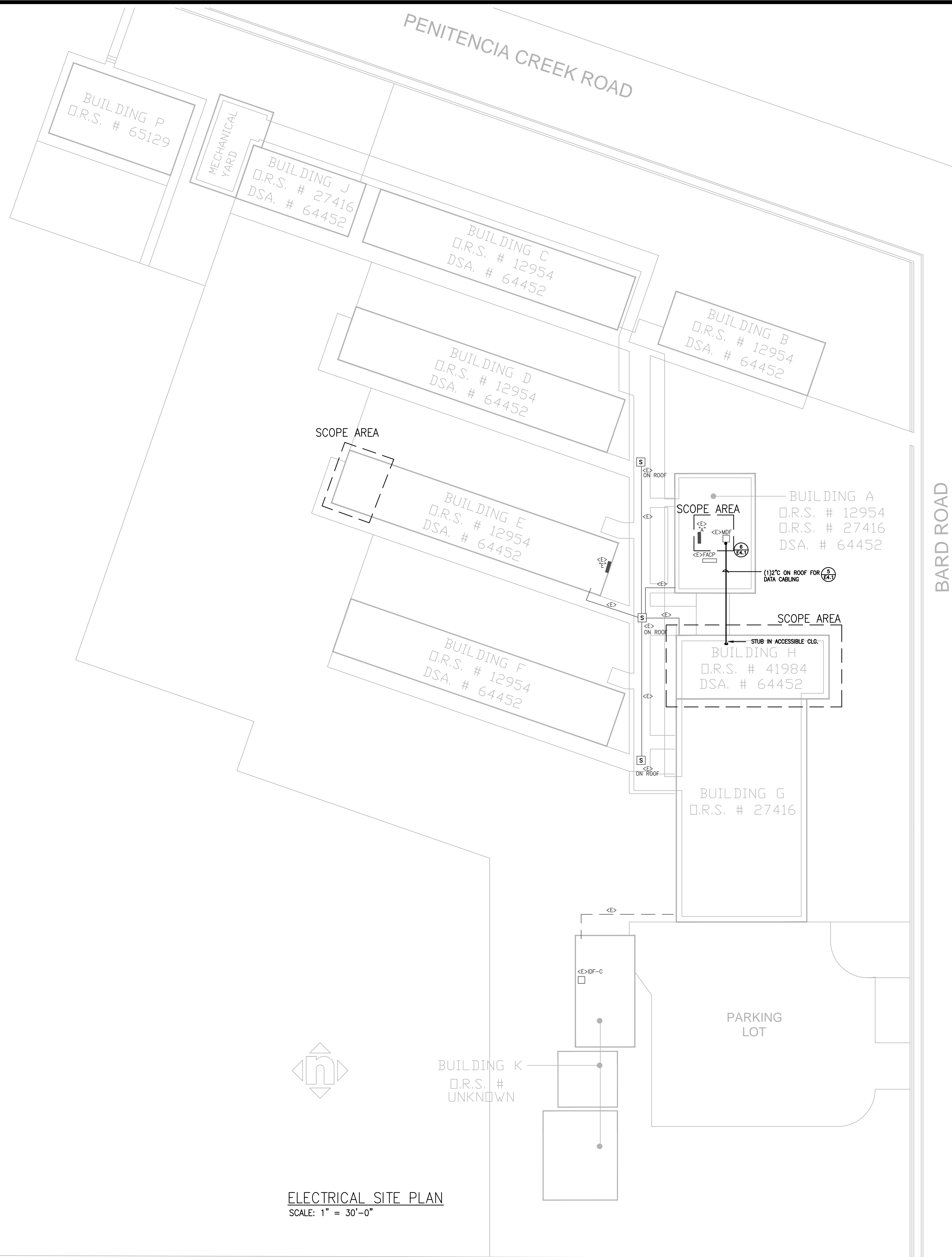
Enter sum total of all pages into
NRCCT-11-01-E, Page 1

STATE OF CALIFORNIA INDOOR LIGHTING <small>(CALIFORNIA TITLE 24, PART 6.1 - APPROVED 2015)</small> CERTIFICATE OF COMPLIANCE Indoor lighting Project Name: Tyson Elementary School		 CALIFORNIA ENERGY COMMISSION NRCB-LTI-01-E (Page 6 of 6)	
		Date Prepared: 8/22/2018	
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT			
I, _____, certify that this Certificate of Compliance Documentation is accurate and complete.			
Documentation Author Name: Mark Fisher		Documentation Author Signature:	
Company: Alta Tech		Signature Date: 8/22/2018	
Address: 1321 Ridder Park Drive, No. 50		CA Certificate Identification # (if applicable): E16525	
City/County: San Jose, CA 95131		Phone: (408)487-1200	
RESPONSIBLE PERSON'S DECLARATION STATEMENT			
I certify the following under penalty of perjury, under the laws of the State of California:			
1. The information provided on this Certificate of Compliance is true and correct.			
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible declaration).			
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.			
The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.			
I will ensure that a completed signed copy of this Certificate of Compliance is readily made available with the building permits issued for the building, and make available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the authority having jurisdiction at occupancy.			
Responsible Declaration Signatory:		Responsible Declaration Signature:	
Company: MARK FISHER		Date Signed: _____	
Address: 1321 Ridder Park Drive, No. 50		License: E16525	
City/County: San Jose, CA 95131		Phone: (408)487-1200	

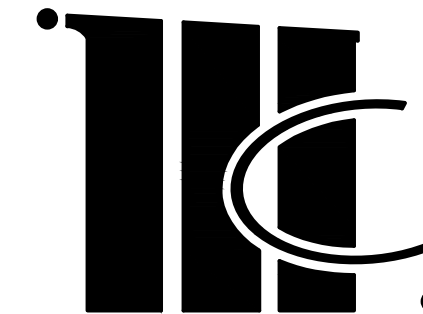
STATE OF CALIFORNIA INDOOR LIGHTING – LIGHTING CONTROLS <i>(SCSCEC CODE REPEALS ETLR)</i> CERTIFICATE OF COMPLIANCE Indoor Lighting - Lighting Controls		 CALIFORNIA ENERGY COMMISSION NRC LTR 10-2 (Page 1 of 3)	
Project Name Troyen Elementary School		Job Number 8/2/2018	
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT			
I, _____, certify that this Certificate of Compliance documentation is accurate and complete.			
Documentation Author Signature 			
Company Alfa Tech	Signature Date 8/2/2018		
Address 1321 Ridder Park Drive, No. 50	CA Certification Identification (if applicable)		
City/Town/Co. San Jose, CA 95131	Phone (408)487-1200	E-Registries E16625	
RESPONSIBLE PERSON'S DECLARATION STATEMENT			
I certify the following under penalty of perjury, under the laws of the State of California:			
1. The information provided on this Certificate of Compliance is true and correct.			
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance [responsible designer].			
3. The energy ratings and performance specifications, materials, components, and manufactured device for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.			
4. The building design features or system designs featured identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.			
5. I will ensure that a complete signed copy of this Certificate of Compliance that has been made available with the building permits issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required by the documentation the building owner provides to the building authority at occupancy.			
Responsible Designer Name Mark Fisher		Responsible Designer Signature 	
Company ALFATECH	Date Signed _____		
Address 1321 Ridder Park Drive, No. 50	License E16625		
City/Town/Co. San Jose, CA 95131	Phone (408)487-1200		

STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE <small>PERMITS/CLERK OF COURTS FORM</small> CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRC-111-03-1 (Page 4 of 4)
Certificate of Compliance - Indoor Lighting Power Allowance Issued to: Toyon Elementary School		New Project: 8/22/2018
DOCUMENTATION AUTHORITY'S DECLARATION STATEMENT I, <u>Mark Fisher</u> , declare that this Certificate of Compliance documentation is accurate and complete.		
Signature: <u>Mark Fisher</u> Printed: Alfa Tech Address: 1321 Ridder Park Drive, No. 50 City/State/Zip: San Jose, CA 95131	Documentation Author Signature: <u>[Signature]</u> Signature: 8/22/2018 CA Certificate Identification # (optional): E16025 Phone: (408)847-1200	
RESPONSIBLE PARTY'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (response). 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency upon applicable request. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.		
Declaration made by: Mark Fisher Signature: <u>[Signature]</u> Printed: ALFA TECH Address: 1321 Ridder Park Drive, No. 50 City/State/Zip: San Jose, CA 95131		
Responsible Design Signature: <u>[Signature]</u> Date Signed: 8/22/2018 License: E16025 Phone: (408)847-1200		





ELECTRICAL SITE PLAN
SCALE: 1" = 30'-0"



McKim Design Group

4595 Cherry Ave., 1st Floor, San Jose, CA 95118
ph. (408) 927-8110 fax (408) 927-8112

ALFATECH

1321 RIDDER PARK DRIVE, SUITE 50 408-487-1200
SAN JOSE, CALIFORNIA 95131 FAX: 408-487-1422
SAN JOSE • SAN FRANCISCO • THAILAND • SINGAPORE
SYDNEY • MELBOURNE • DUBLIN • CORK • LONDON • DUBAI
AT Project No. 218244



Date Signed 10/10/2018

Architect Seal

Project Title

Toyon Elementary School

995 Bard St.
San Jose, CA 95127

**FLEXIBLE INSTRUCTION
SPACE**

Client

Berryessa Union School District
1376 PIEDMONT RD.
SAN JOSE, CA 95132

No	Revisions/Submissions	Date
	DSA Submittal	08/06/18
	DSA Back-Check	10/11/18

Drawing Title

ELECTRICAL SITE PLAN

Project No.
1711

Date
August 6, 2018

Regulatory Agency Approval

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPL 01-117713
ACS FLS SSS

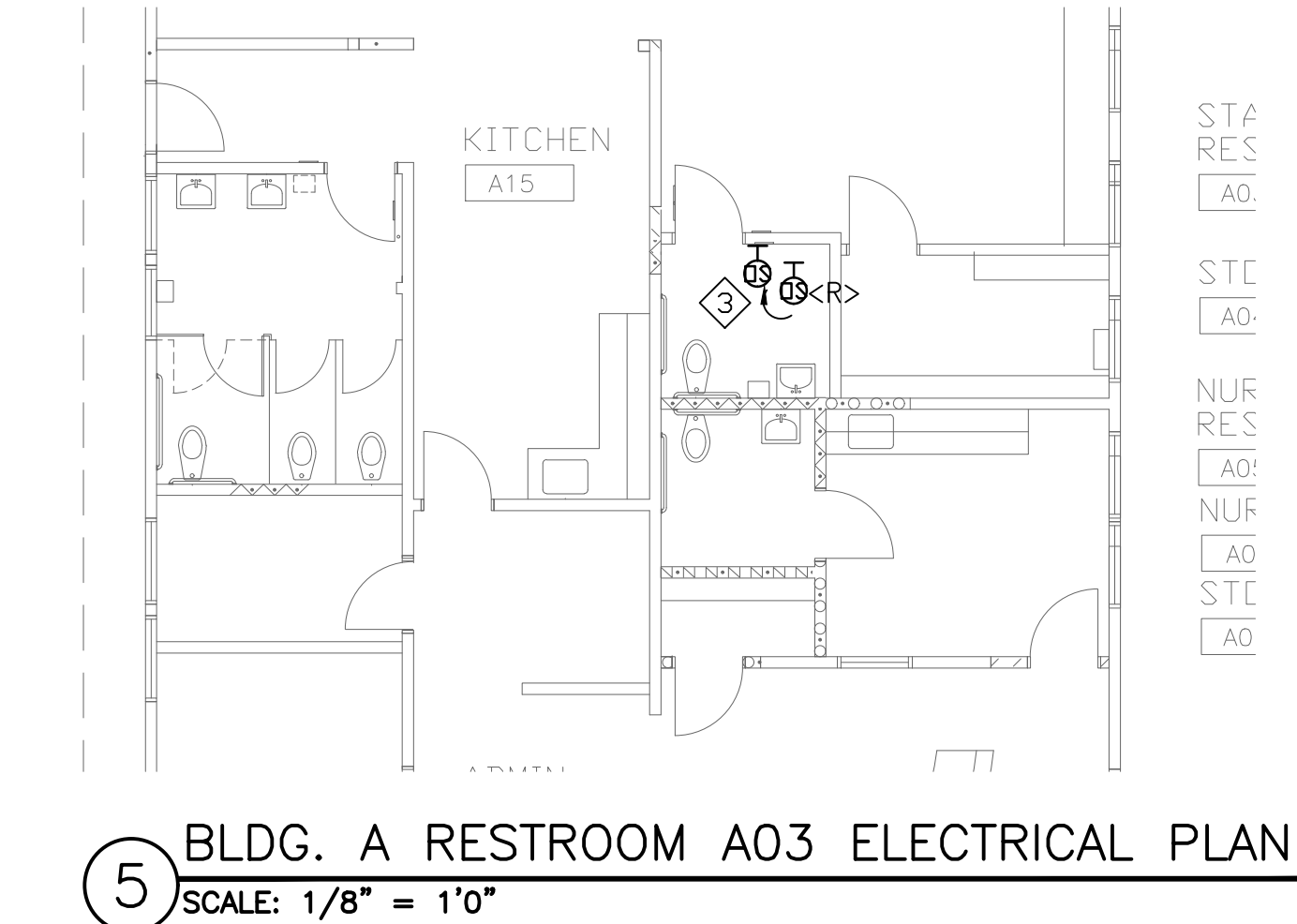
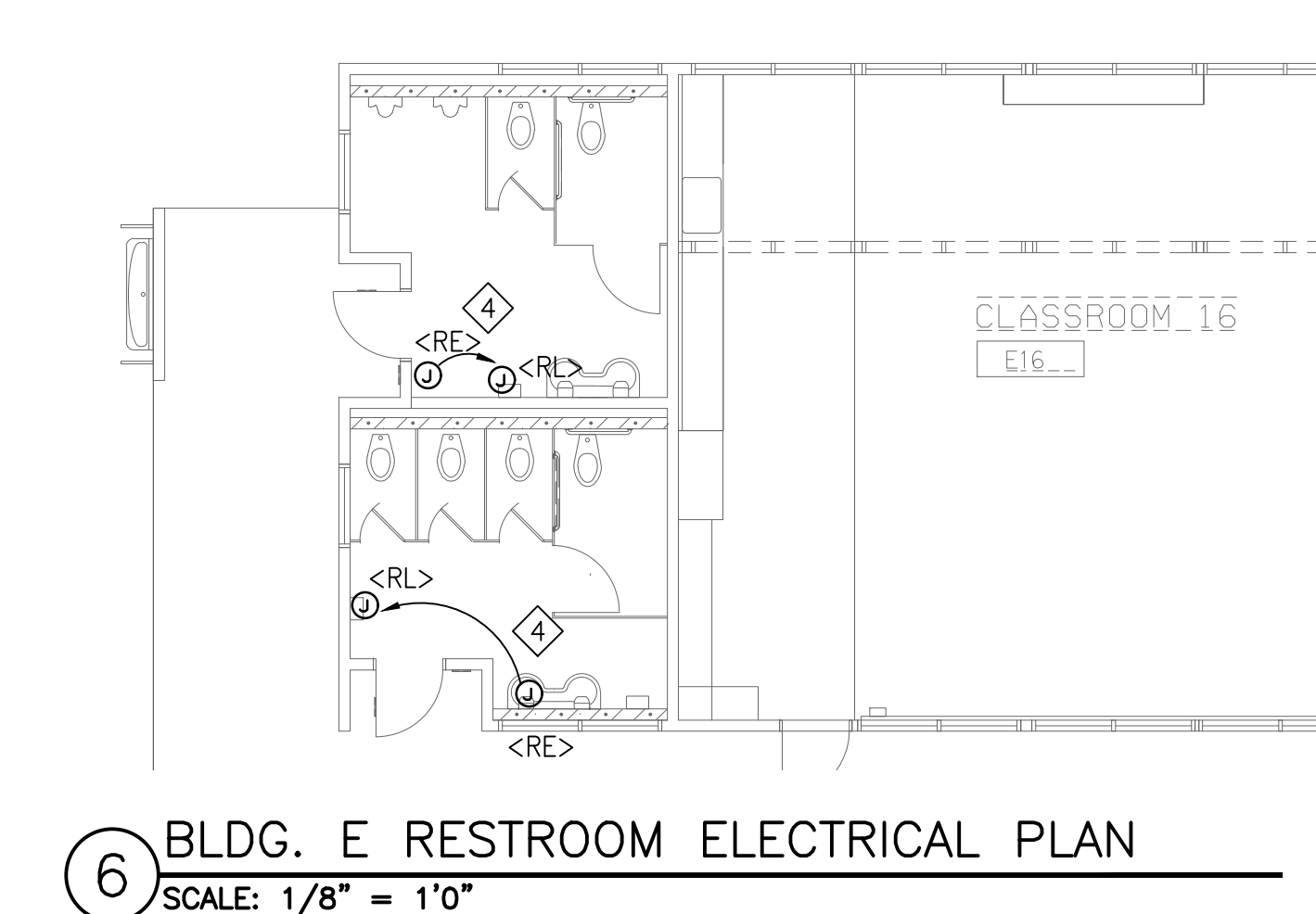
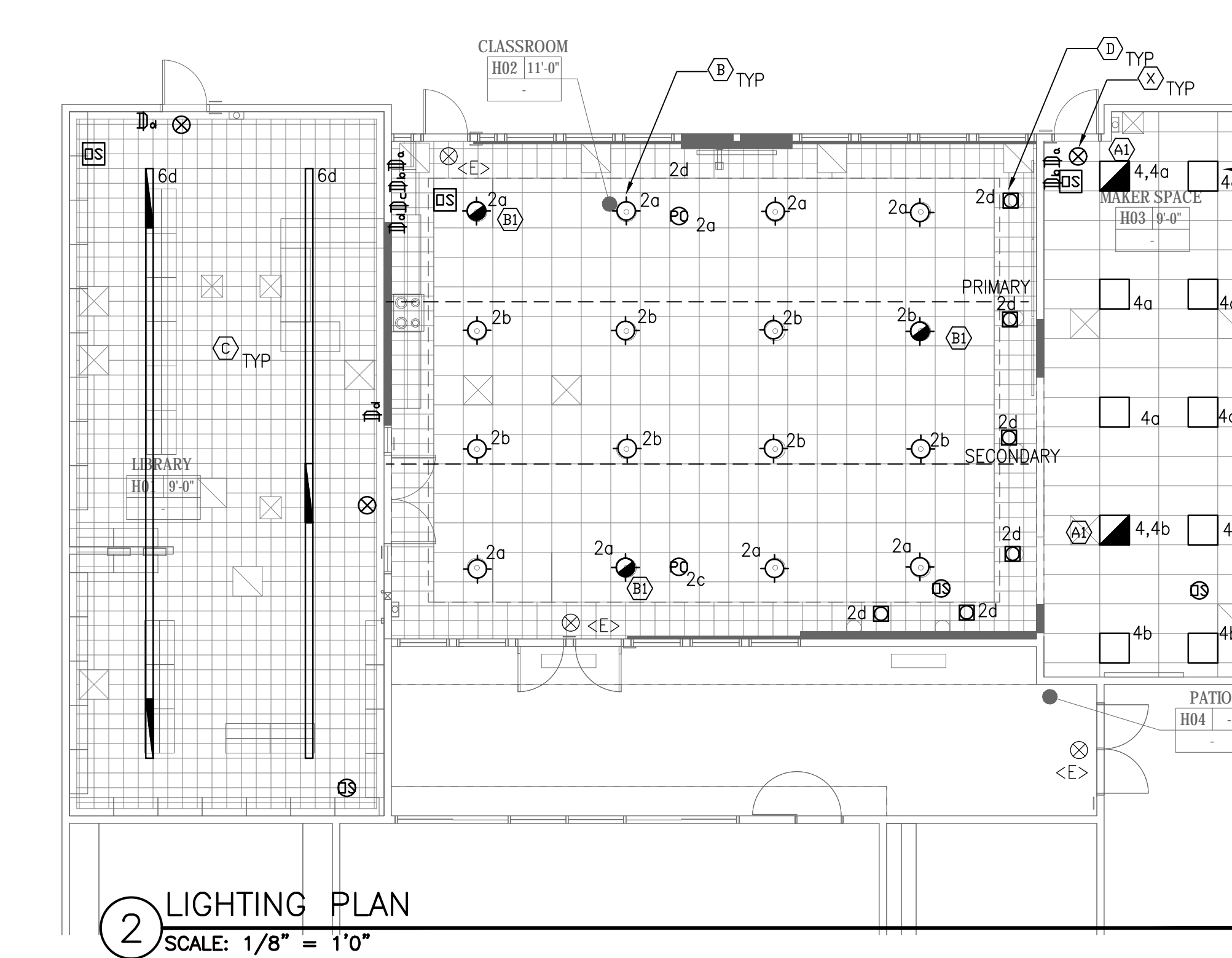
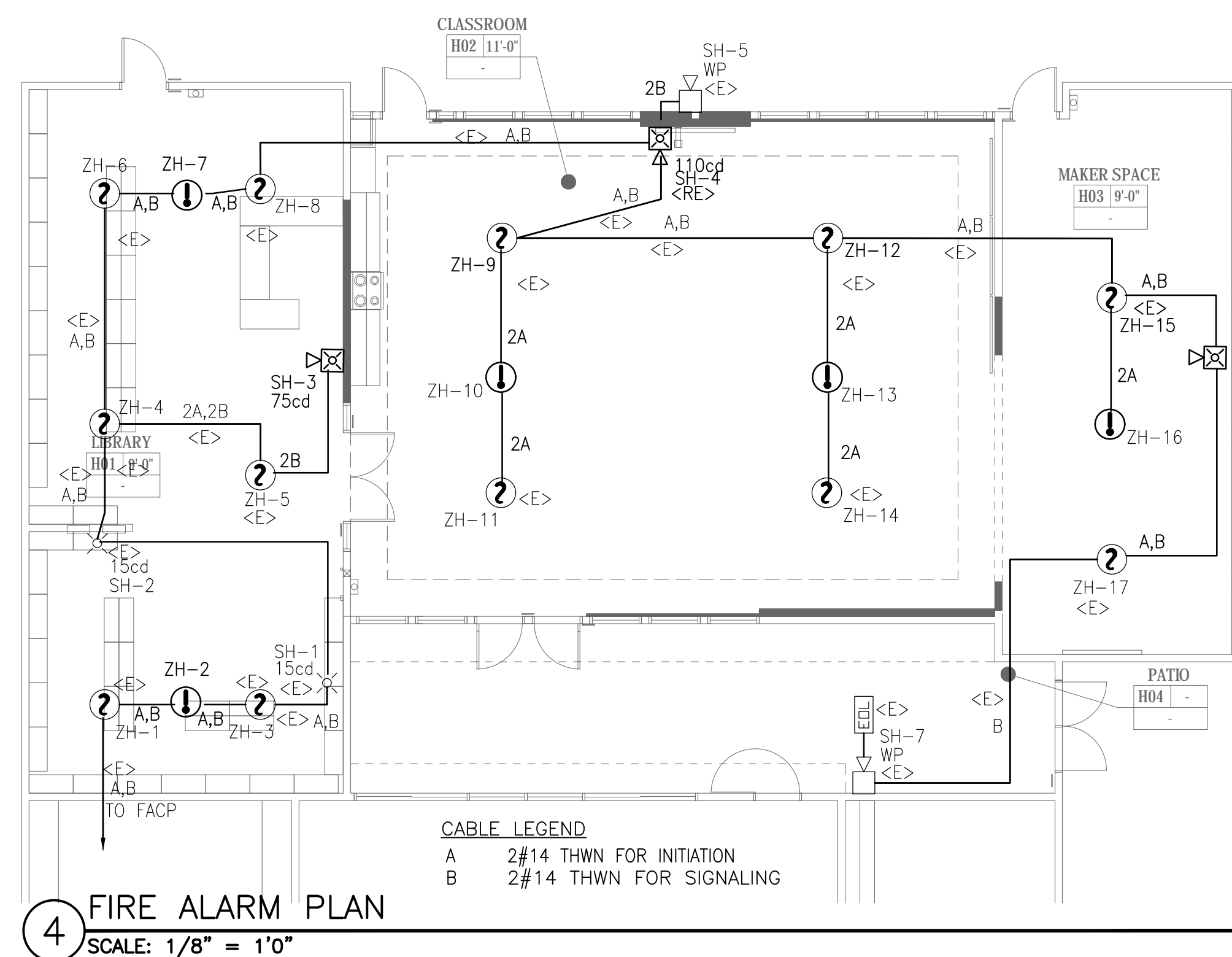
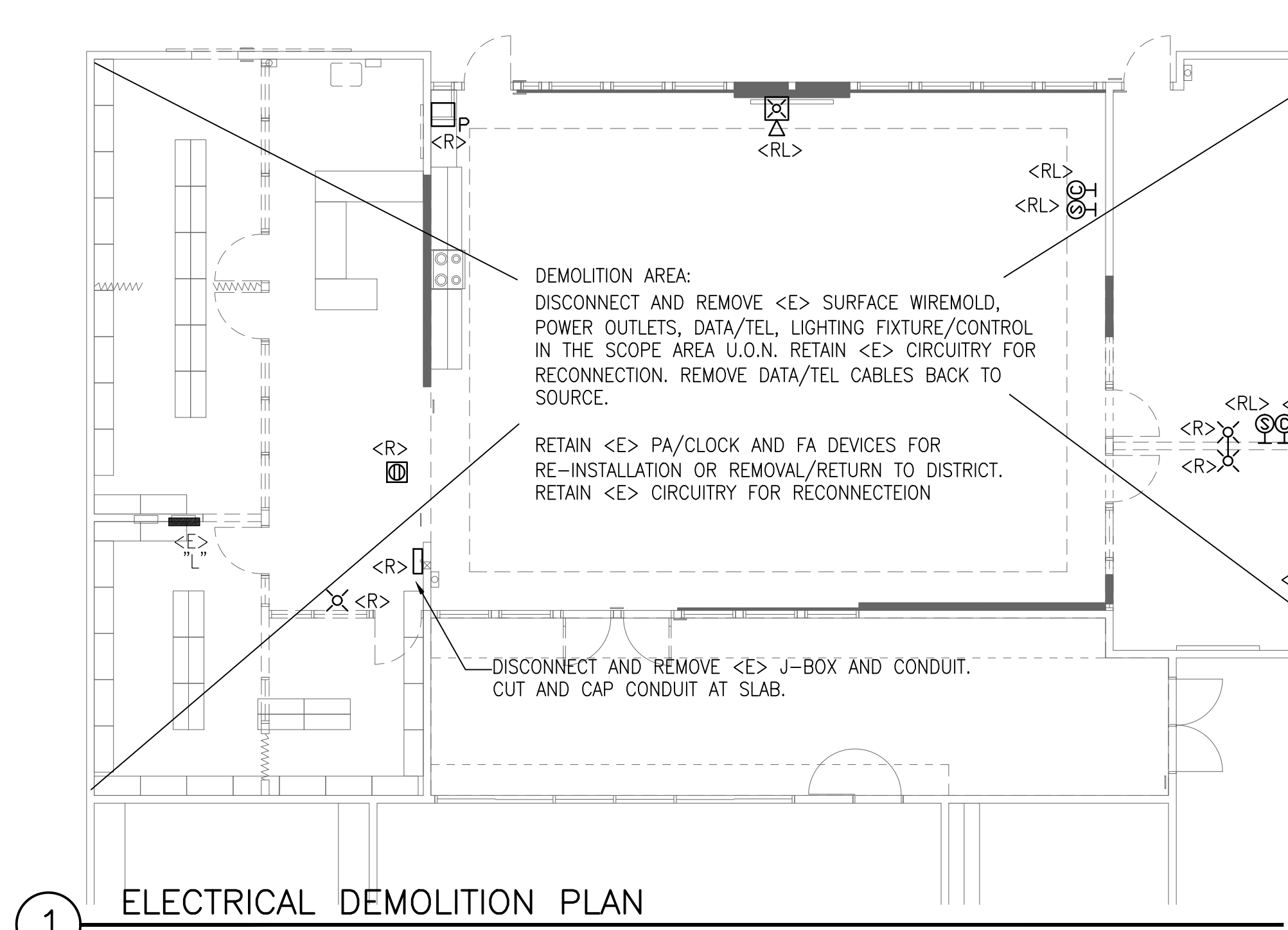
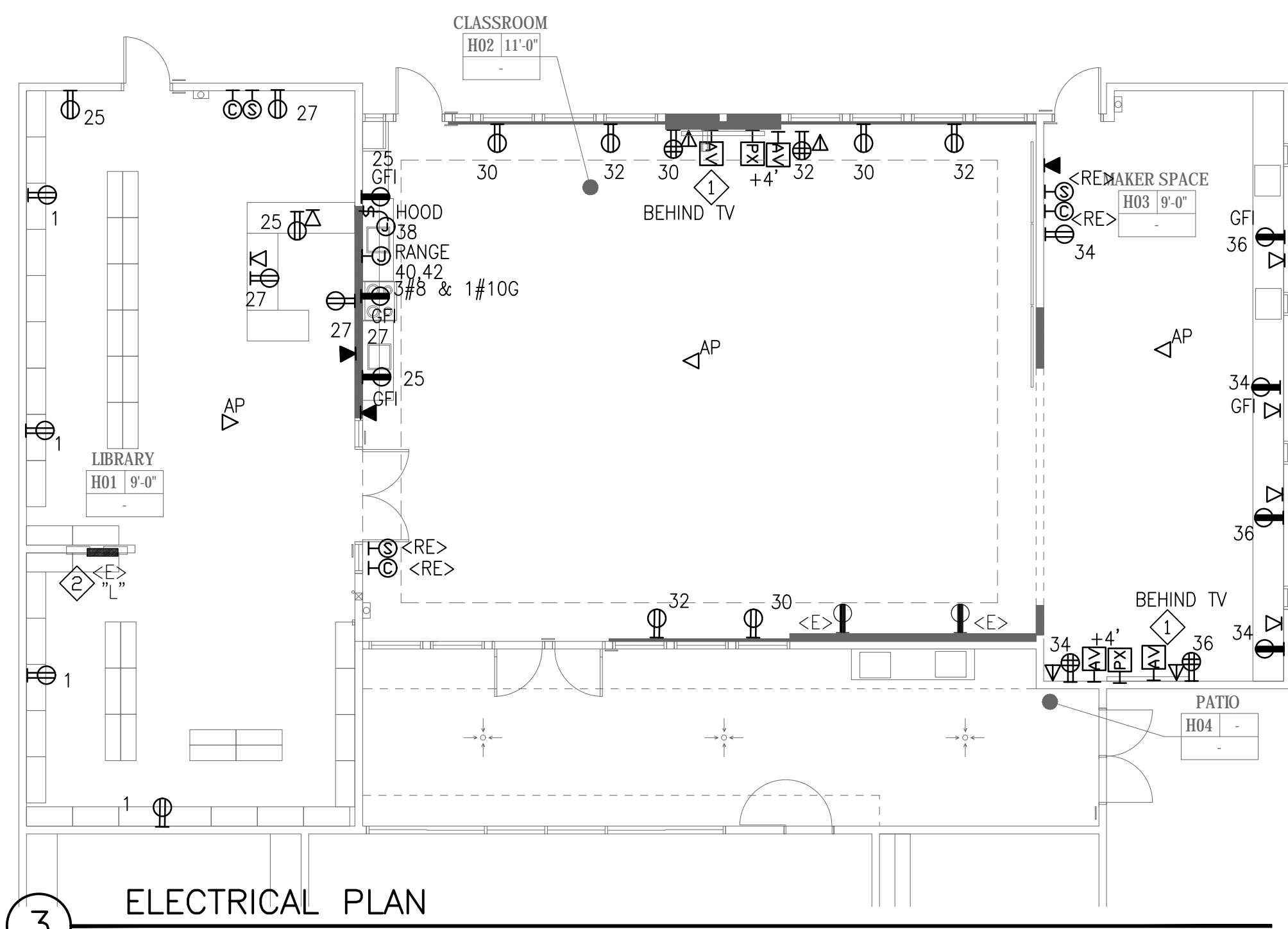
DATE

File: 43-7

Drawing Number

CD

E1.1



GENERAL NOTES:

- ALL CONDUITS SHALL BE CONCEALED IN WALLS AND ABOVE ACCESSIBLE CEILING U.O.N. CUT AND PATCH <E> WALL/CEILING AS NEEDED FOR CONDUIT INSTALLATION.
- EXISTING BUILDING IS OF TYPE V ONE HOUR CONSTRUCTION. SEAL AND CAULK ALL CONDUIT PENETRATION AT FIRE RATED WALLS TO MAINTAIN FIRE RATING INTEGRITY.
- CONFIRM EXACT DEVICE LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.
- REFER TO E4.1 FOR LOW VOLTAGE CABLE INFORMATION.

SHEET NOTES:

- PROVIDE 1 1/2" C.O. FROM 2 GANG BOX BEHIND TV TO AV CONTROLLER AND 1" C.O. TO AV CEILING SPEAKERS (5LB).
- REPLACE <E> (2) 20A/1P SPARE BREAKERS WITH (1) 40A/2P BREAKER FOR RANGE. THE NEW BREAKER SHALL BE COMPATIBLE WITH <E> PANEL AIC RATING. PROVIDE UPDATED PANEL SCHEDULE TO MATCH FIELD CIRCUITRY CONDITION.
- DISCONNECT AND REMOVE <E> WALL MOUNTED OCCUPANCY SENSOR/LIGHT SWITCH. INTERCEPT AND EXTEND <E> CONDUIT AND CIRCUITRY FOR CONNECTION TO NEW SENSOR/SWITCH OF LIKE KIND AT NEW WALL. WATT STOPPER OR EQUAL.
- DISCONNECT AND RELOCATE <E> HAND DRYER TO NEW LOCATION. INTERCEPT AND EXTEND <E> CONDUIT AND CIRCUITRY FOR RECONNECTION.

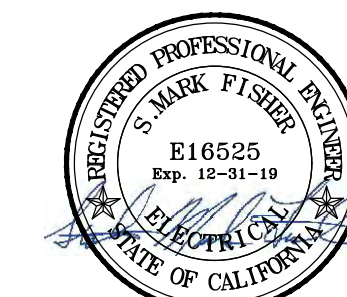


McKim Design Group

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ph. (408) 927-8110 fax (408) 927-8112

ALFATECH

1321 RIDDER PARK DRIVE, SUITE 50 SAN JOSE, CALIFORNIA 95131
SAN JOSE • SAN FRANCISCO • THAILAND • SINGAPORE
SYDNEY • MELBOURNE • DUBLIN • CORK • LONDON • DUBAI
At Project No. 218244



Date Signed 10/10/2018

Architect Seal

Project Title

Toyon Elementary School

995 Bard St.
San Jose, CA 95127

FLEXIBLE INSTRUCTION SPACE

Client

Berryessa Union School District
1376 PIEDMONT RD.
SAN JOSE, CA 95132

No	Revisions/Submissions	Date
1	DSA Submittal	08/06/18
2	DSA Back-Check	10/11/18
3		
4		

Drawing Title

ELECTRICAL PLANS

Project No. 1711 Date August 6, 2018

Regulatory Agency Approval

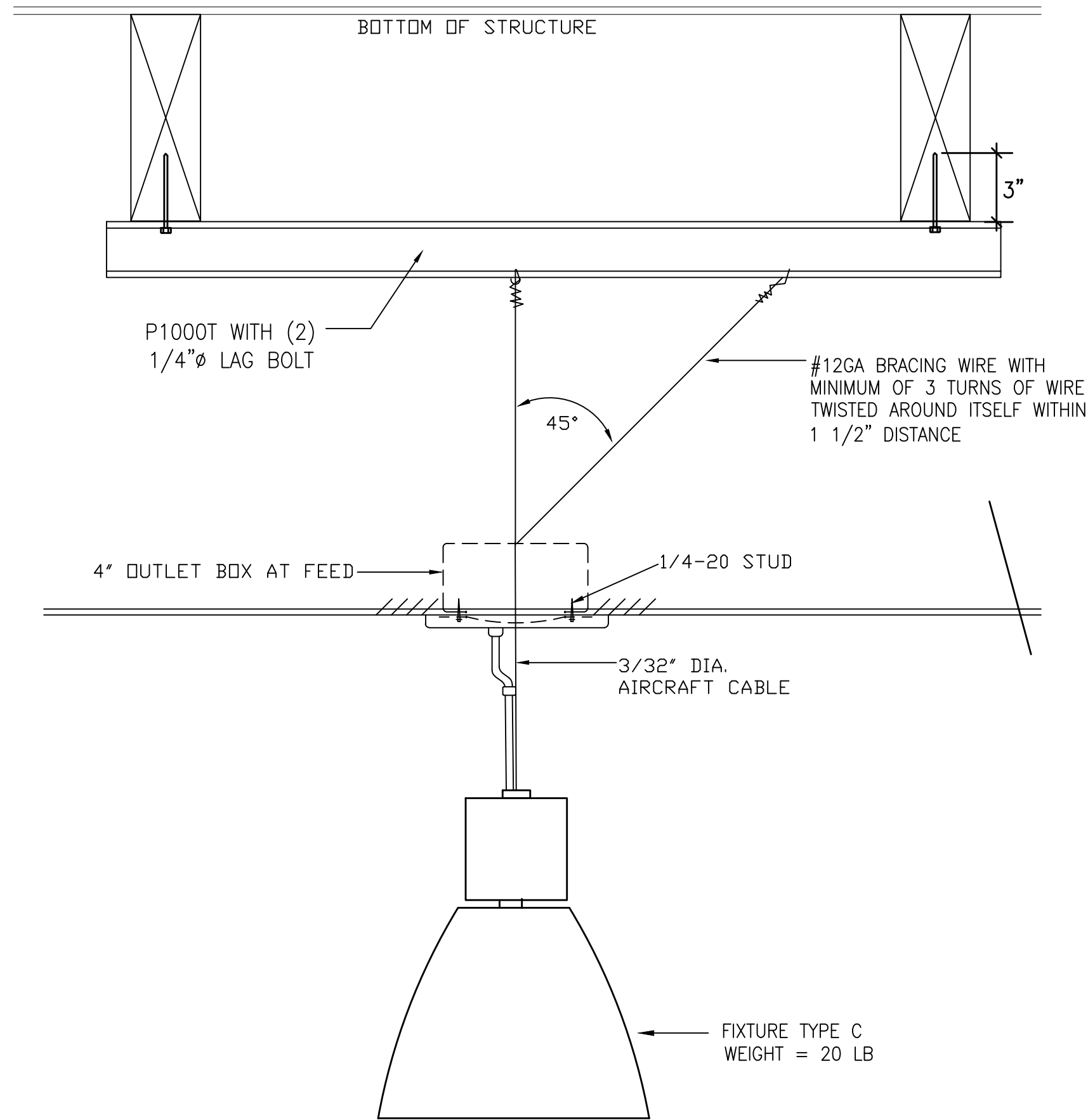
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DIVISION OF THE STATE ARCHITECT

APPL 01-117713
ACS_FLS_SSS

DATE

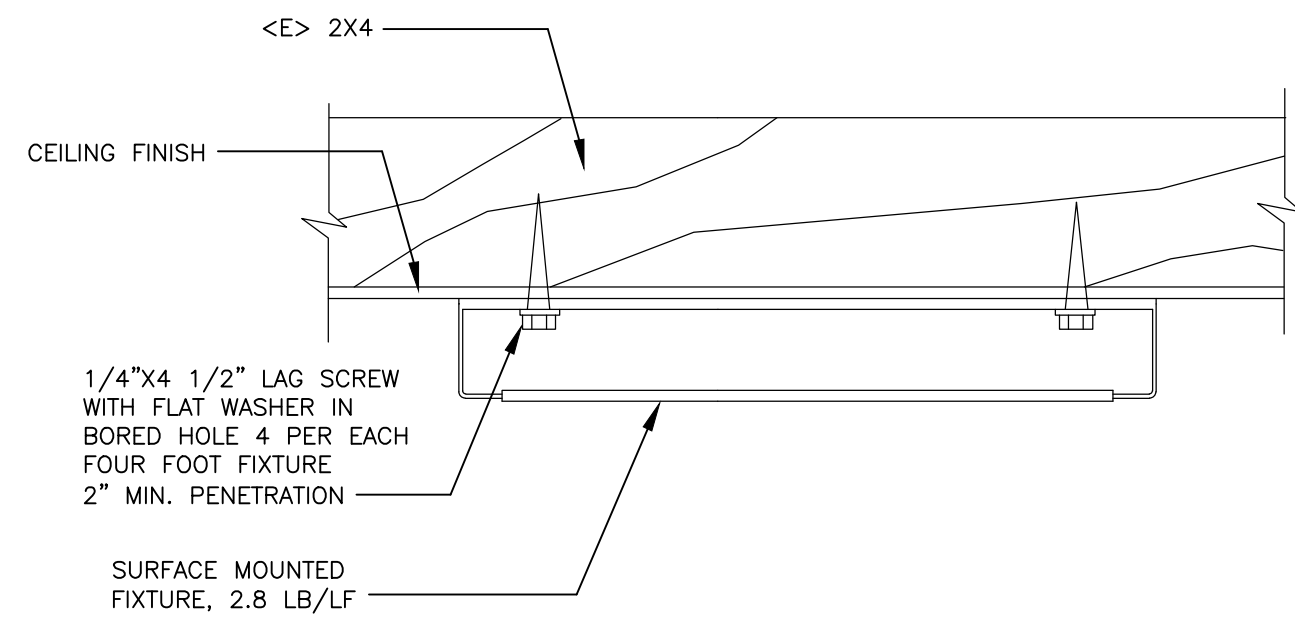
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Drawing Number
CD E2.1



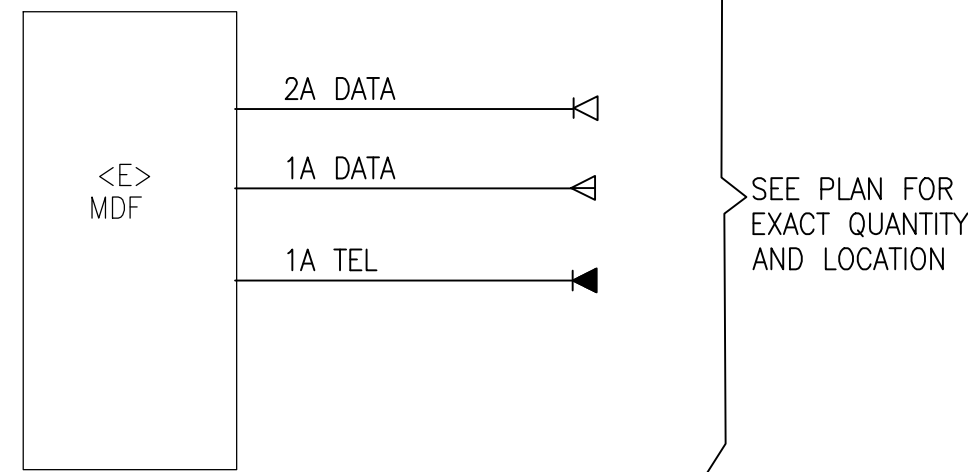
5 PENDANT MOUNTED FIXTURE

NOT TO SCALE



6 SURFACE MOUNTED FIXTURE

NOT TO SCALE



CABLE LEGEND:

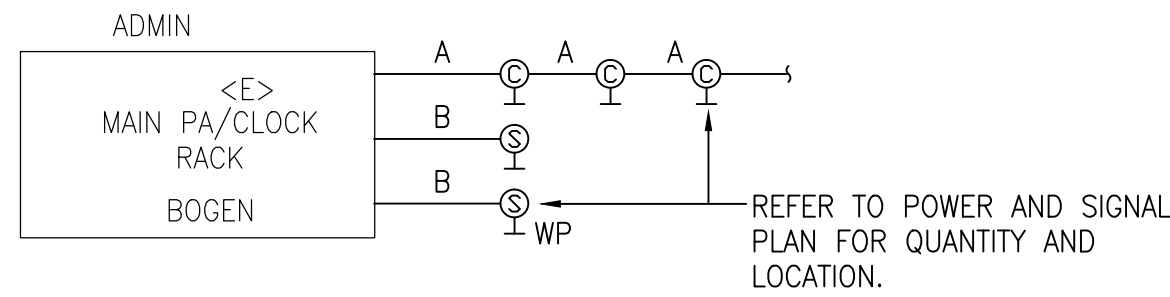
A = 4PR CAT 6A FOR DATA

NOTES:

1. PROVIDE SYSTEM PROGRAMMING, TESTING AND COMMISSIONING FOR A COMPLETE OPERATING SYSTEM.

2 DATA WIRING DIAGRAM

NOT TO SCALE



CABLE LEGEND:

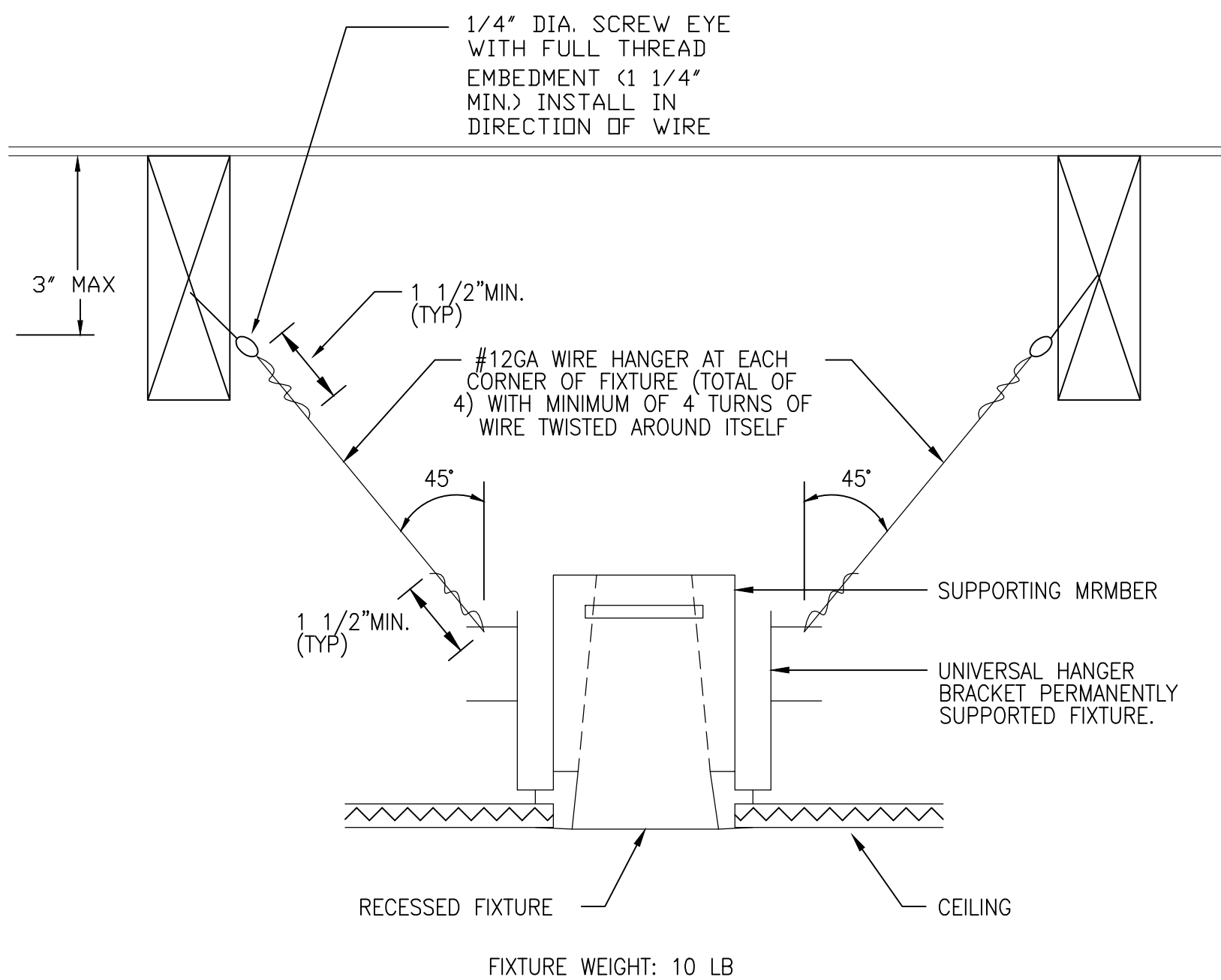
A = 3#12 THHN/THWN CU FOR CLOCK, WEST PENN 236 FOR INTERIOR WITHOUT CONDUIT
B = WEST PENN #1083 4-CONDUCTOR #22AWG SHIELDED SOLID CABLE.

NOTES:

1. ALL CABLES INSTALLED UNDERGROUND SHALL BE WATERTIGHT TYPE RATED FOR UNDERGROUND INSTALLATION.
2. PROVIDE SYSTEM PROGRAMMING, TESTING AND COMMISSIONING FOR A COMPLETE OPERATING SYSTEM.

3 PA/CLOCK WIRING DIAGRAM

NOT TO SCALE

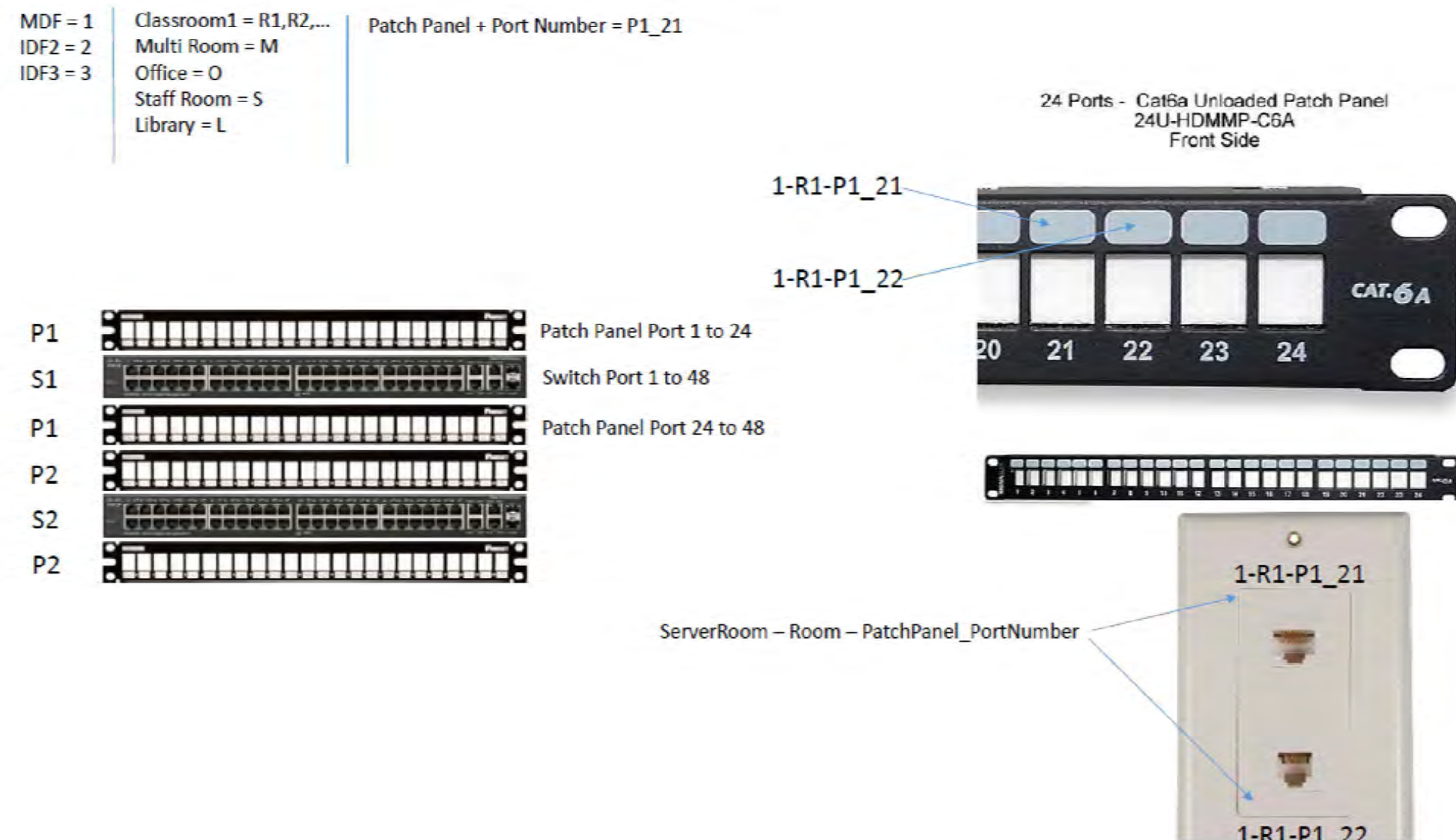


4 RECESSED LIGHT FIXTURE

NOT TO SCALE

FIXTURE SCHEDULE					
TYPE	SKETCH	DESCRIPTION	FINISH	MANUFACTURER	LAMP
A		2'X2' RECESSED MOUNTED DIRECT LED FIXTURE WITH PERFORATED CENTER BASKET, REFLECTOR AND END CAPS FORM SEAMLESS ONE PIECE HOUSING, HIGH REFLECTANCE, LOW GLOSS MATTE WHITE FINISH AND LED DIMMING DRIVER. 120VAC	WHITE	FINELITE HPR LED-F2X2-DCO-B 835-120-SC-C1-EM OR APPROVED EQUAL	37W LED 3500K 4400 LM
A1		SIMILAR TO TYPE "A" EXCEPT WITH BATTERY PACK.	WHITE	FINELITE HPR LED-F2X2-DCO-B 835-120-SC-C1-EM OR APPROVED EQUAL	37W LED 3500K 4400 LM
B		AIR CRAFT CABLE PENDANT MOUNTED 16" DIA. LED FIXTURE WITH WHITE GLASS SHADE, SILVER HARDWARE ACRYLIC LENSE AND 120V LED DRIVER FOR 0-10V DIMMING. MOUNT BOTTOM OF FIXTURE AS SHOWN ON EL2.1. MOUNT BOTTOM OF FIXTURE AT 9' AFF.	WHITE	CONTECH CPL5-40K-MVD-CDE-FC -P-CRN12-P OR APPROVED EQUAL	57W LED 4000K 6580 LM
B1		SIMILAR TO TYPE "B" EXCEPT WITH REMOTE DRIVER AND BATTERY BACKUP.	WHITE	CONTECH CPL5-40K-MVD-CDB-FC -P-CRN12-P OR APPROVED EQUAL	57W LED 4000K 6580 LM
C		4" APERTURE, HIGH PERFORMANCE SURFACE MOUNTED FIXTURE, CONTINUOUS EXTRUDED ALUMINUM BODY WITH LENGTH AS SHOWN ON PLAN, DIE FORMED 20 GAUGE CRS REFLECTOR, FROSTED SNAP-IN LENS, 120V LED DRIVER AND EMERGENCY BATTERY PACK AS SHOWN. PROVIDE MOUNTING HARDWARE TO SUIT CEILING TYPE.	WHITE	FINELITE HP-4SM-4'-H-835-F-120V-SC OR APPROVAL EQUAL	28.3W LED 3500K 80 CRI
D		4" DIAMETER LED RECESSED MOUNTED DOWNLIGHT WITH DIE CAST ALUMINUM HOUSING, CLEAR SEMI SPECULAR ANODIZE REFLECTOR FINISH, LED DIMMING DRIVER, 120VAC.	WHITE	H.E. WILLIAMS 4DR-TL-L10-8-35-DIM-UNV-O-W-OF-CS-N-F1 OR APPROVED EQUAL	9W LED 3500K 1000 LM
X		CEILING MOUNTED LED EXIT SIGN WITH GREEN LETTERS ON WHITE BACKGROUND, THERMOPLASTIC HOUSING, INDICATING ARROWS AS SHOWN AND EMERGENCY BATTERY PACK. 120 VAC	WHITE W/GREEN LETTERS	SURE-LITES LPX SERIES LPX70DG-WH EMERGI-LITE	LED

* APPROVED EQUAL = ALL PRODUCT SHALL BE OF THE SAME GRADE. THE ENGINEER SHALL DETERMINE IF THE SUBMITTED PRODUCT IS EQUAL TO THE SPECIFIC PRODUCT.
** FIXTURE WITH EMERGENCY BALLAST SHALL BE NOT BE WIRED AS NIGHT LIGHT.



1 BUSD MDF/IDF LABELING SCHEME

NOT TO SCALE



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At Project No. 218244



Date Signed 10/10/2018

Architect Seal

Project Title

Toyon Elementary School

995 Bard St.
San Jose, CA 95127

FLEXIBLE INSTRUCTION
SPACE

Client

Berryessa Union School District
1376 PIEDMONT RD.
SAN JOSE, CA 95132

No	Revisions/Submissions	Date
	DSA Submittal	08/06/18
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Drawing Title

DETAILS

Project No.
1711

Date
August 6, 2018

Regulatory Agency Approval

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPL 01-117713
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





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





























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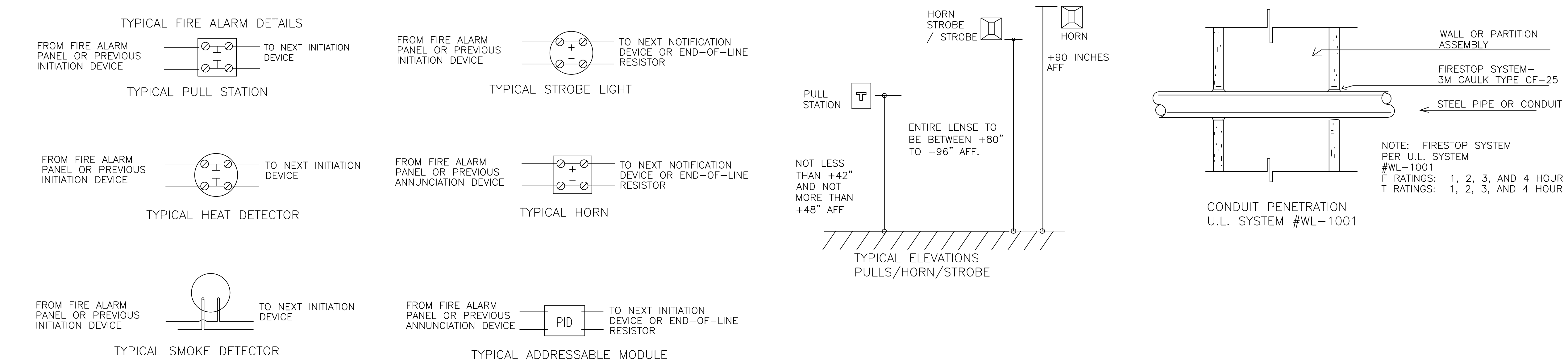
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Drawing Number

E4.1

FIRE ALARM MATERIAL LIST			
SYMBOL	NAME	DESCRIPTION	CALIFORNIA STATE FIRE MARSHAL LISTING
	FIRE ALARM CONTROL PANEL-ANALOG ADDRESSABLE	GAMEWELL IDENTIFLEX IF-602	7165-1703::0145
	FIRE ALARM REMOTE POWER SUPPLY WITH BATTERY BACK-UP.	GAMEWELL HPFF8 NAC EXPANDER/POWER SUPPLY	7300-1637:0102
	FIRE ALARM STROBE LIGHT WITH CANDELLA AS NOTED	WHEELLOCK RSS	7125-0785:0141
	FIRE ALARM HORN-STROBE WITH CANDELLA AS INDICATED ON PLANS	WHEELLOCK AS	7125-0785:0131
	FIRE ALARM HORN WITH WEATHERPROOF BACK-BOX	WHEELLOCK AH-24WP-R	7125-0785:0131
	FIRE ALARM PHOTOELECTRONIC SMOKE DETECTOR 30 FT. RECOMMENDED SPACING	GAMEWELL XP95-P WITH XP95-B6EZ BASE	7272-1703:0155 7300-1394:0114
	FIRE ALARM HEAT DETECTOR ABOVE CEILING RECOMMENDED SPACING: SMOOTH CEILING-60 FT, TO WALLS-25 FT	GAMEWELL XP95-T WITH XP95-B6EZ BASE	7272-1703:0156 7300-1394:0114
	END OF LINE DEVICE		
<div>'A' = WEST PENN 994 - ABOVE GRADE 'A' = WEST PENN A0226 - BELOW GRADE 'B' = 2 EACH THHN #12 - RACEWAY</div> <div>'B' = 2 EACH THWN #12 - BELOW GRADE 'B' = WEST PENN 998 - ABOVE GRADE WITHOUT RACEWAY 'C' = WEST PENN A0C430 (2 PAIR #22 INDIVIDUALLY SHIELDED)</div>			


APPLICABLE CODES: 2016 BUILDING STANDARDS' ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R. 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R. (2015 INTERNATIONAL BUILDING CODE AND 2016 CALIFORNIA AMENDMENTS) 2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, C.C.R. (2014 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS) 2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R. (2015 UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS) 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R. (2015 UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS) 2016 CALIFORNIA ENERGY CODE, PART 6, TITLE 24, C.C.R. 2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24, C.C.R. (2015 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS) TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS. PARTIAL LIST OF APPLICABLE STANDARDS: NFPA 13 AUTOMATIC SPRINKLER SYSTEMS 2016 EDITION NFPA 14 STANDPIPE SYSTEMS (CA AMENDED) 2013 EDITION NFPA 17A WET CHEMICAL SYSTEMS 2013 EDITION NFPA 24 PRIVATE FIRE MAINS (CA AMENDED) 2016 EDITION NFPA 72 NATIONAL FIRE ALARM CODE (CA AMENDED) 2016 EDITION REFERENCE CODE SECTION FOR NFPA STANDARDS, 2016 CBC (SFM) CHAPTER 35.	FIRE ALARM NOTES 1. POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT WITH A RED MARKING AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL". 2. PROVIDE TEMPORAL-THREE DISTINCTIVE FIRE ALARM SOUND. 3. AUDIBLE FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 15 dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPIABLE AREAS. (I.E. CLASSROOM AVERAGE AMBIENT ROOM NOISE IS 45 dBA PLUS 15 dBA EQUALS = 60 dBA MINIMUM ALARM TONE REQUIRED.) 4. STROBES SHALL FLASH AT A RATE OF NOT EXCEEDING TWO FLASHES PER SECOND NOR BE LESS THAN ONE FLASH EVERY SECOND. 5. AUDIBLE SIGNALS INTENDED FOR OPERATION IN THE PUBLIC MODE SHOULD HAVE A SOUND LEVEL OF NOT LESS THAN 75 dBA AT 10 FEET OR MORE THAN 100 dBA AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE APPLIANCE. 6. FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (IOR). LOCAL FIRE AUTHORITY SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF THE DATE AND TIME OF FINAL FIRE ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING AT THEIR DISCRETION. 7. FIRE ALARM CONTRACTOR SHALL PROVIDE A "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD (IOR)/DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TEST. 8. ALL FIRE ALARM WIRE SHALL BE INSTALLED IN CONDUIT MIN. SIZE 3/4" UNLESS OTHERWISE NOTED. EXTERIOR AND UNDERGROUND CONDUITS SHALL HAVE WATER TIGHT FITTINGS. 9. CONTRACTOR SHALL VERIFY EXACT DEVICE AND CABLE TYPE WITH FA MANUFACTURER TO ENSURE COMPATIBILITY PRIOR TO ORDERING, PROVIDE ALL NECESSARY MODULES, RELAYS, ETC TO ENSURE A COMPLETE OPERATING SYSTEM.																									
SCOPE OF WORK : PROVIDE AUTOMATIC FIRE ALARM SYSTEM, DEVICES AND CABLING AT RENOVATED AREA WITH CONNECTION TO <E> FIRE ALARM PANEL. THE <E> FIRE ALARM SYSTEM COMPLIES WITH SB575 GREEN OAKS FAMILY ACADEMY ELEMENTRY SCHOOL FIRE PROTECTION ACT SUPERVISION REQUIREMENT. NO FUEL-BURNING APPLIANCE OR FUEL-BURNING FIREPLACE WERE USED IN THE CLASSROOM, NOR WERE THE CLASSROOM SUPPLIED BY A FORCED-AIR FURNACE HENCE CO DETECTOR IS NOT REQUIRED.	OPERATION MATRIX <table><tr><th></th><th>ANNUNCIATE ALARM CONDITION AT FACP</th><th>ANNUNCIATE TROUBLE CONDITION AT FACP</th><th>ACTIVATE HORN, HORN-STROBES THROUGHOUT THE ENTIRE SCHOOL</th><th>CENTRAL STATION</th></tr><tr><td>MANUAL STATIONS</td><td></td><td></td><td></td><td></td></tr><tr><td>HEAT DETECTOR</td><td></td><td></td><td></td><td></td></tr><tr><td>SMOKE DETECTOR</td><td></td><td></td><td></td><td></td></tr><tr><td>SYSTEM TROUBLE</td><td></td><td></td><td></td><td></td></tr></table>		ANNUNCIATE ALARM CONDITION AT FACP	ANNUNCIATE TROUBLE CONDITION AT FACP	ACTIVATE HORN, HORN-STROBES THROUGHOUT THE ENTIRE SCHOOL	CENTRAL STATION	MANUAL STATIONS					HEAT DETECTOR					SMOKE DETECTOR					SYSTEM TROUBLE				
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MANUAL STATIONS																										
HEAT DETECTOR																										
SMOKE DETECTOR																										
SYSTEM TROUBLE																										
TYPE OF SYSTEM THIS IS A MAUAL / AUTOMATIC ADDRESSABLE FIRE ALARM SYSTEM. CLASS B PER 2016 NFPA 72 SECTION 12.3.2.																										






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AT Project No. 218244



Date Signed 10/10/2018

Architect Seal

Project Title

Toyon Elementary School
995 Bard St.
San Jose, CA 95127
FLEXIBLE INSTRUCTION SPACE

Client

Berryessa Union School District
1376 PIEDMONT RD.
SAN JOSE, CA 95132

No	Revisions/Submissions	Date
	DSA Submittal	08/06/18
	DSA Back-Check	10/11/18

Drawing Title

FIRE ALARM DETAILS

Project No. 1711	Date August 6, 2018
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Regulatory Agency Approval

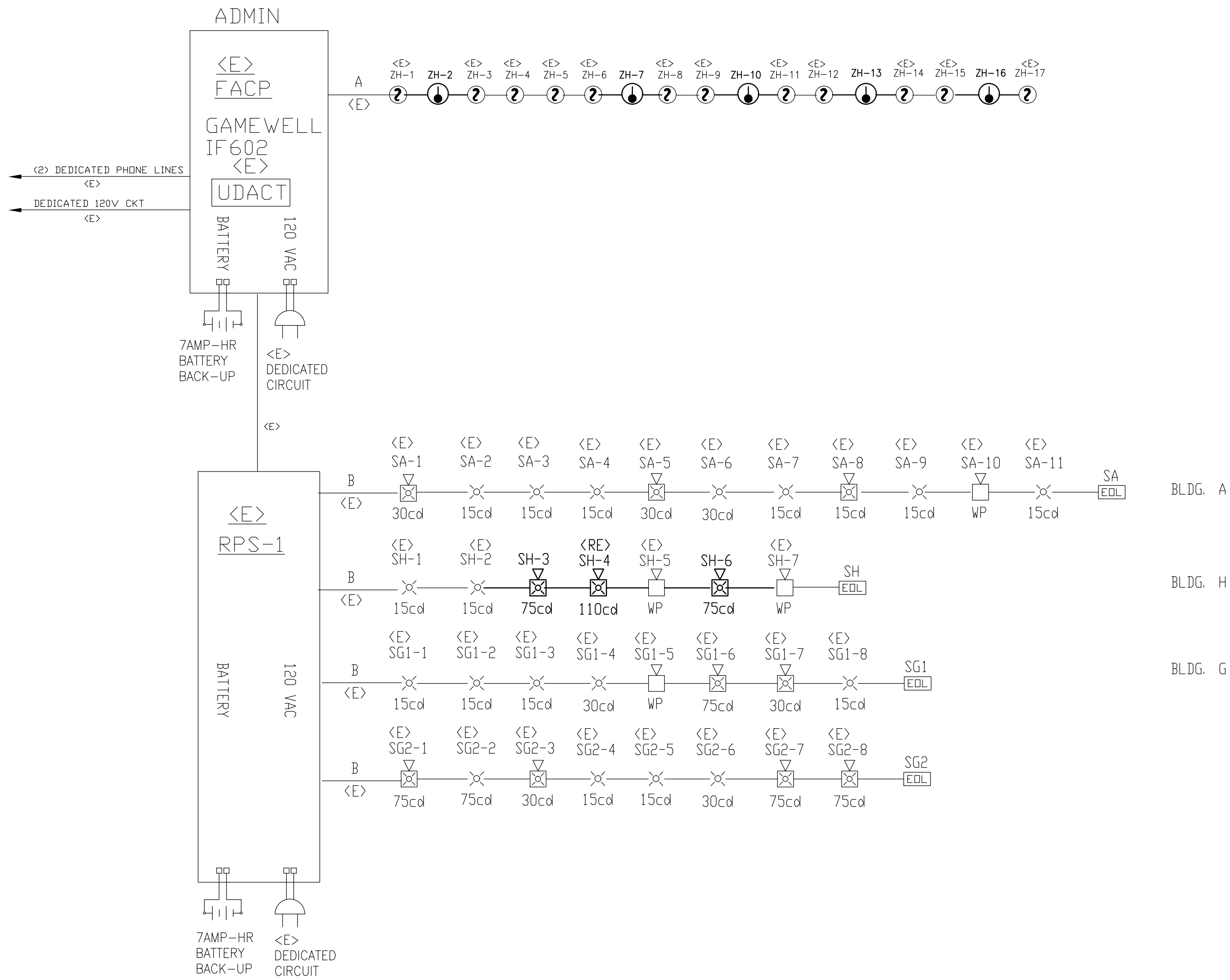
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APPL 01-117713
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DATE _____

File: 43-7

CD	Drawing Number E7.1
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PANEL MODULES						
QTY	PRODUCT ID	DESCRIPTION	STANDBY		ALARM	
			EACH	TOTAL	EACH	TOTAL
1	IF 602	FACP	0.125000	0.125000	0.171000	0.171000
1	UDACT	COMMUNICATOR	0.000400	0.000400	0.000750	0.000750
PANEL STANDBY CURRENT			0.125400			
PANEL ALARM CURRENT					0.171750	

FIELD DEVICES							
QTY	QTY	PRODUCT	DESCRIPTION	STANDBY		ALARM	
<E>	<N>	ID		EACH	TOTAL	EACH	TOTAL
124	0	SD	SMOKE DETECTOR	0.000340	0.042160	0.004340	0.538160
30	5	HD	HEAT DETECTOR	0.000250	0.008750	0.004000	0.140000
2	0	DD	DUCT SMOKE DETECTOR	0.000340	0.000680	0.004000	0.008000
7	0	PB	PULL STATION	0.000500	0.003500	0.010500	0.010500
					0.000000		0.000000
			DEVICE STANDBY CURRENT		0.055090		
			DEVICE ALARM CURRENT				0.696660

BATTERY CALCULATION			
TOTAL STANDBY CURRENT	0.180490		
X24 HOURS STANDBY	4.331760		
TOTAL ALARM CURRENT			0.696660
5 MINUTES OF ALARM (X .083)			0.359536
20% SPARE			0.211239
TOTAL BATTERY REQUIREMENT			4.891296
BATTERY SUPPLIED			7 AH

<E> RPS-A - BLDG A							
QTY	QTY	PRODUCT	DESCRIPTION	STANDBY		ALARM	
<E>	<N>	ID		EACH	TOTAL	EACH	TOTAL
1	0	FFB	POWER SUPPLY	0.030000	0.030000	0.055000	0.055000
1	0	AS-2415	HORN/STROBE 15cd	0.000000	0.000000	0.080000	0.080000
4	0	AS-2430	HORN/STROBE 30cd	0.000000	0.000000	0.102000	0.408000
4	2	AS-2475	HORN/STROBE 75cd	0.000000	0.000000	0.150000	0.900000
1	0	AS-24110	HORN/STROBE 110cd	0.000000	0.000000	0.194000	0.194000
14	0	RSS-2415	STROBE 15cd	0.000000	0.000000	0.060000	0.840000
3	0	RSS-2430	STROBE 30cd	0.000000	0.000000	0.092000	0.276000
1	0	RSS-2475	STROBE 75cd	0.000000	0.000000	0.165000	0.165000
0	0	RSS-24110	STROBE110cd	0.000000	0.000000	0.220000	0.000000
4	0	AH-24WP	EXTERIOR HORN	0.000000	0.000000	0.080000	0.320000
DEVICE STANDBY CURRENT				0.030000			
DEVICE ALARM CURRENT						3.238000	

TOTAL SYSTEM CURRENT			
DESCRIPTION	STANDBY		ALARM
BATTERY CALCULATION			
FIELD DEVICES	0.030000		3.238000
TOTAL STANDBY CURRENT	0.030000		
X24 HOURS STANDBY	0.720000		
TOTAL ALARM CURRENT			3.238000
5 MINUTES OF ALARM (X .083)			0.268754
20% SPARE			0.701351
TOTAL BATTERY REQUIREMENT			4.208105
BATTERY SUPPLIED			7AH

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME----- TOYON ELEMENTARY SCHOOL
SIG CKT #------ SH - BLDG H

DEVICE #	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	371	27	32	82	12	88	11	0	0	0
AMPS @ DEVICE	0.06	0.06	0.15	0.194	0.08	0.15	0.08	0	0	0
AMPS DEVELOPED	0.774	0.714	0.654	0.504	0.31	0.23	0.08	0	0	0
VOLT. DROP	0.91315	0.061304	0.066551	0.131423	0.01183	0.064363	0.002798	0	0	0

** FORMULA **

1X FEET X OHMS/FT /FT

SIGNAL CIRCUIT = SH - BLDG H

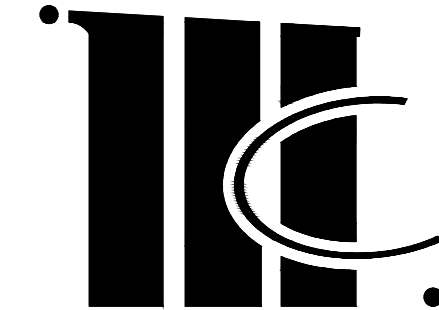
TOTAL CKT V.D. = 1.251419

CKT VOLTAGE = 20.4

VOLTAGE AT

FINAL DEVICE = 19.14858

% VOLTAGE DROP = 6.13441



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Drawing Title

FIRE ALARM RISER &
CALCULATIONS

Project No. 1711 Date August 6, 2018

Regulatory Agency Approval

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E7.2