

# CLOVIS UNIFIED SCHOOL DISTRICT PORTABLE CLASSROOM IMPROVEMENTS ONLINE CHARTER SCHOOL

## GENERAL SITE NOTES:

THE REQUIREMENTS AND INFORMATION SET OUT BELOW ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT ENCOMPASS ALL PROJECT REQUIREMENTS DESCRIBED BY THE PROJECT PLANS AND SPECIFICATIONS AND/OR APPLICABLE LAWS, REGULATIONS AND/OR BUILDING CODES.

- CONSTRUCTION OF ALL PROJECT SITE IMPROVEMENTS SUBJECT TO ADA ACCESS COMPLIANCE, INCLUDING ACCESSIBLE PATH OF TRAVEL, CURB RETURNS, PARKING STALL(S) AND UNLOADING AREAS, BARRIER FREE AMENITIES AND/OR OTHER APPLICABLE SITE IMPROVEMENTS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT, CALIFORNIA TITLE 24, AND THE CALIFORNIA BUILDING CODE, CURRENT EDITION(S).
- CONTRACTOR SHALL FIELD VERIFY ALL GRADES AND SLOPES PRIOR TO THE PLACEMENT OF CONCRETE AND/OR PAVEMENT FOR CONFORMANCE WITH ADA ACCESS COMPLIANCE REQUIREMENTS. EXAMPLES OF MINIMUM AND MAXIMUM LIMITS RELATED TO ADA ACCESS COMPLIANCE INCLUDE, BUT ARE NOT LIMITED TO:
  - ACCESSIBLE PATH OF TRAVEL CROSS-SLOPE SHALL NOT EXCEED 2%
  - ACCESSIBLE PATH OF TRAVEL LONGITUDINAL SLOPES SHALL NOT EXCEED 5%
  - RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 8.33%
  - WALKS SHALL NOT HAVE LESS THAN 48 INCHES IN UNOBSTRUCTED WIDTH
  - ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION
  - LANDINGS AT THE TOP AND BOTTOM OF ACCESSIBLE RAMPS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION
  - GUTTERS AND ROAD SURFACES DIRECTLY ADJACENT TO AND WITHIN 2 FEET OF A CURB RAMP SHALL HAVE A COUNTER SLOPE NOT TO EXCEED 5%
  - OPEN PAVED PLAY AREAS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION
- CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IDENTIFIED BY THE PROFESSIONAL ENGINEERING SEAL AND SIGNATURE ON THESE PLANS, OF ANY SITE CONDITION(S) AND/OR DESIGN INFORMATION THAT PREVENTS THE CONTRACTOR FROM COMPLYING WITH THE LAWS, REGULATIONS AND/OR BUILDING CODES GOVERNING ADA ACCESS COMPLIANCE.
- DRAINAGE SHALL NOT BE ALLOWED ONTO ADJACENT PROPERTY.
- ALL FILL MATERIAL USED SHALL BE PLACED IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS. A SOILS COMPACTION REPORT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AS REQUIRED BY THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS REQUIRED BY THE PROJECT SPECIFICATIONS, AND BY GOVERNING PUBLIC AGENCIES.
- THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO START OF ANY WORK.
- CONTRACTOR SHALL NOTIFY THE SCHOOL DISTRICT TO TURN OFF IRRIGATION A MINIMUM OF 2 DAYS PRIOR TO STARTING WORK. CONTRACTOR SHALL COORDINATE WITH THE SCHOOL DISTRICT THROUGHOUT THE COURSE OF THE PROJECT FOR WATERING AND NON-WATERING TIMES. CONTRACTOR SHALL NOTIFY THE DISTRICT AS SOON AS WORK IS COMPLETED TO THE POINT WHERE IRRIGATION SYSTEMS MAY BE TURNED BACK ON.
- ENSURE THAT ALL EXISTING STRIPING IS NOT VISIBLE AFTER APPLYING SEAL COAT AND PRIOR TO RESTRIPIING AND REPAINTING. OTHERWISE, ADDITIONAL SEAL COAT APPLICATION MAY BE REQUIRED.
- PRIOR TO ACCEPTANCE OF NEW PAVING AND APPLICATION OF SEAL COAT AND/OR STRIPING, THE CONTRACTOR SHALL COMPLETE A WATER TEST OF THE NEW PAVEMENT WITH THE ENGINEER OF RECORD PRESENT TO VERIFY THAT NO LOW SPOTS OR "BIRD BATHS" ARE PRESENT, PER THE PROJECT SPECIFICATIONS.
- LAYOUT ALL PAVEMENT MARKINGS TO MATCH EXISTING UNLESS NOTED OTHERWISE ON PLANS.
- PAINT ALL CURBS AND WHEELSTOPS TO MATCH EXISTING WITHIN PROJECT LIMITS, UNLESS SHOWN OTHERWISE ON THE PLANS.
- ALL CONCRETE SHALL HAVE WEAKENED PLANE JOINTS AT 10 FEET OR LESS ON CENTER AND ONE HALF INCH PREMOLDED EXPANSION JOINTS AT 30 FEET OR LESS MINIMUM. MATCH EXISTING SCORE PATTERN DIMENSIONS ON ALL CONCRETE WALKS AND PAVEMENT.
- NO CONCRETE MAY BE POURED UNTIL ALL FORMS AND REINFORCEMENTS HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT INSPECTOR.
- REPLACE ALL DAMAGED TURF AND IRRIGATION FACILITIES RESULTING FROM THE WORK REQUIRED.
- ADJUST ALL UTILITY LIDS TO FINISHED GRADE WITHIN CONSTRUCTION AREA PER DETAIL [DX101L] UNLESS NOTED OTHERWISE. REMOVE AND REPLACE ALL BROKEN OR DAMAGED LIDS AND BOXES. ALL LIDS WITHIN TRAFFIC AREAS SHALL BE TRAFFIC RATED.
- ANY EXISTING UTILITIES AND/OR IMPROVEMENTS WHICH ARE TO REMAIN, THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE OWNER AND AGENCY HAVING AUTHORITY, AT THE CONTRACTOR'S SOLE EXPENSE.
- ANY EXISTING UTILITIES AND/OR IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE OWNER AND AGENCY HAVING AUTHORITY, AT THE CONTRACTOR'S SOLE EXPENSE.
- CONTRACTOR TO MATCH EXISTING PAVEMENT GRADE AT ALL NEW PAVEMENT LOCATIONS UNLESS NOTED OTHERWISE ON THE PLANS.
- ASPHALT CONCRETE REMOVAL AND REPLACEMENT LIMITS SHOWN ARE APPROXIMATE AND ARE BASED ON PAVEMENT CONDITIONS OBSERVED DURING A PRE-DESIGN SITE REVIEW. ADJUST LOCATIONS AND LIMITS AS REQUIRED BY ACTUAL FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
- INSTALL DOWELED CONNECTION AT JOINT OF NEW CONCRETE TO EXISTING CONCRETE PER DETAIL [BX101L]
- TREAT ALL JOINTS BETWEEN EXISTING ASPHALT AND CONCRETE SURFACES PER DETAIL [AX101L]

## FLOOD HAZARD INFORMATION:

**FLOOD ZONE DESIGNATION:**  
ZONE X - AREA OF MINIMAL FLOOD HAZARD

**FLOOD INSURANCE RATE MAP (F.I.R.M.) PANEL DESIGNATION:**  
MAP #06019C1585H

**EFFECTIVE DATE OF F.I.R.M.:**  
FEBRUARY 18, 2009

## ENFORCING AGENCY:

DIVISION OF THE STATE ARCHITECT (DSA), SACRAMENTO OFFICE

## NOTES:

NO DEFERRED APPROVALS INCLUDED IN THIS DSA APPLICATION

## DETERIORATION OF EXISTING NON-COMPLIANT CONSTRUCTION:

IF ANY CONDITION IS DISCOVERED WHICH, IF LEFT UNCORRECTED, WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE CBC IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, THE CONDITION MUST BE CORRECTED IN ACCORDANCE WITH CURRENT CODE REQUIREMENTS. 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.

## NOTES:

- A COPY OF TITLE 24 C.C.R. PARTS 1 THROUGH 5 AND 9 SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.
- CHANGES TO THE STRUCTURAL, ACCESSIBILITY OR FIRE AND LIFE-SAFETY PORTIONS OF THE APPROVED PLANS AND SPECIFICATIONS AFTER THE WORK HAS BEEN LET SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT AS REQUIRED BY SECTION 4-336, PART I, CAC, AND SHALL BE SUBMITTED TO AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK.
- CONSTRUCTION CHANGE DOCUMENTS SHALL BE SIGNED BY THE FOLLOWING, ARCHITECT OR ENGINEER OF RECORD, STRUCTURAL ENGINEER (WHEN APPLICABLE), DELEGATED PROFESSIONAL ENGINEER, DSA.
- ADDENDA SHALL BE APPROVED BY DSA.
- NOTHING IN THESE PLANS OR SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE MOST STRINGENT OF CODES. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE GOVERNING CODES.
- ALL TESTS TO CONFORM TO THE REQUIREMENTS OF TITLE 24 SECTION 4-335, PART I, AND APPROVED DSA-103
- TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH TITLE 24 SECTION 4-335 OF PART I, AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS OF RE-TEST MAY BE BACK CHARGED TO THE CONTRACTOR. TESTING LABORATORY SHALL BE AN APPROVED MEMBER OF THE DSA'S LEA (LABORATORY EVALUATION AND ACCEPTANCE) PROGRAM IF APPLICABLE.
- DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE CONCRETE PER TITLE 24 SECTION 4-331, PART I.
- A CLASS 4 PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-333(b), THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH TITLE 24 SECTION 4-342, PART I.
- SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH TITLE 24 SECTION 4-334, PART I.
- CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM DSA-6) IN ACCORDANCE WITH TITLE 24 SECTION 4-336 AND 4-343, PART I.
- THE ARCHITECT AND THE STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH TITLE 24 SECTION 4-333(A), 4-341, AND 4-344, PART I.
- THE CONTRACTOR SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH TITLE 24 SECTION 4-343, PART I.
- DSA IS NOT SUBJECT TO ARBITRATION.
- THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE SCHOOL BUILDING IN ACCORDANCE WITH TITLE 24, C.C.R. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID TITLE 24, C.C.R. A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE OFFICE OF REGULATIONS SERVICES BEFORE PROCEEDING WITH THE WORK.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONCERNS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- MATERIALS AND THEIR INSTALLATION SHALL COMPLY WITH APPLICABLE CODES, STANDARDS, AND MANUFACTURER'S RECOMMENDATIONS.
- PER C.B.C. 11B-104.1 "ALL DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY TOLERANCES EXCEPT WHERE THE REQUIREMENT IS STATED AS A RANGE WITH SPECIFIC MINIMUM AND MAXIMUM END POINTS."

## GOVERNING CODES:

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), C.C.R. TITLE 24, PART 1
- 2022 CALIFORNIA BUILDING CODE (CBC), C.C.R. TITLE 24, PART 2
- 2022 CALIFORNIA ELECTRICAL CODE (CEC), C.C.R. TITLE 24, PART 3
- 2022 CALIFORNIA MECHANICAL CODE (CMC), C.C.R. TITLE 24, PART 4
- 2022 CALIFORNIA PLUMBING CODE (CPC), C.C.R. TITLE 24, PART 5
- 2022 CALIFORNIA FIRE CODE (CFC), C.C.R. TITLE 24, PART 6
- 2022 CALIFORNIA REFERENCED STANDARDS CODE C.C.R. TITLE 24, PART 12
- 2022 CALIFORNIA ENERGY CODE (CAC), C.C.R. TITLE 24, PART 6 C.C.R. TITLE 24, PART II
- C.C.R. TITLE 19 PUBLIC SAFETY
- NFPA 72-16 NATIONAL FIRE ALARM AND SIGNALING CODE (AS AMENDED)
- UL 38-99 MANUALLY ACTUATED SIGNALING BOXES (AS AMENDED)
- UL 268-09 SMOKE DETECTORS FOR FIRE ALARM SYSTEMS
- UL 268A-09 SMOKE DETECTORS FOR DUCT APPLICATIONS (AS AMENDED)
- UL 464-03 AUDIBLE SIGNAL APPLIANCES (AS AMENDED)
- UL 521-99 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS (AS AMENDED)
- UL 1424 CABLES FOR POWER-LIMITED FIRE-ALARM CIRCUITS (2005 EDITION)
- UL 1971 SIGNALING DEVICES FOR THE HEARING IMPAIRED 2002 (R2012) EDITION AMERICANS WITH DISABILITIES ACT

## DSA FILE NO:

10-27

## PTN:

62117-463

## DSA APPL NO:

02-120130

## SITE ADDRESS:

CLOVIS ON-LINE CHARTER  
1655 DAVID E COOK WAY,  
CLOVIS, CA 93611

## PROJECT CONTACTS:

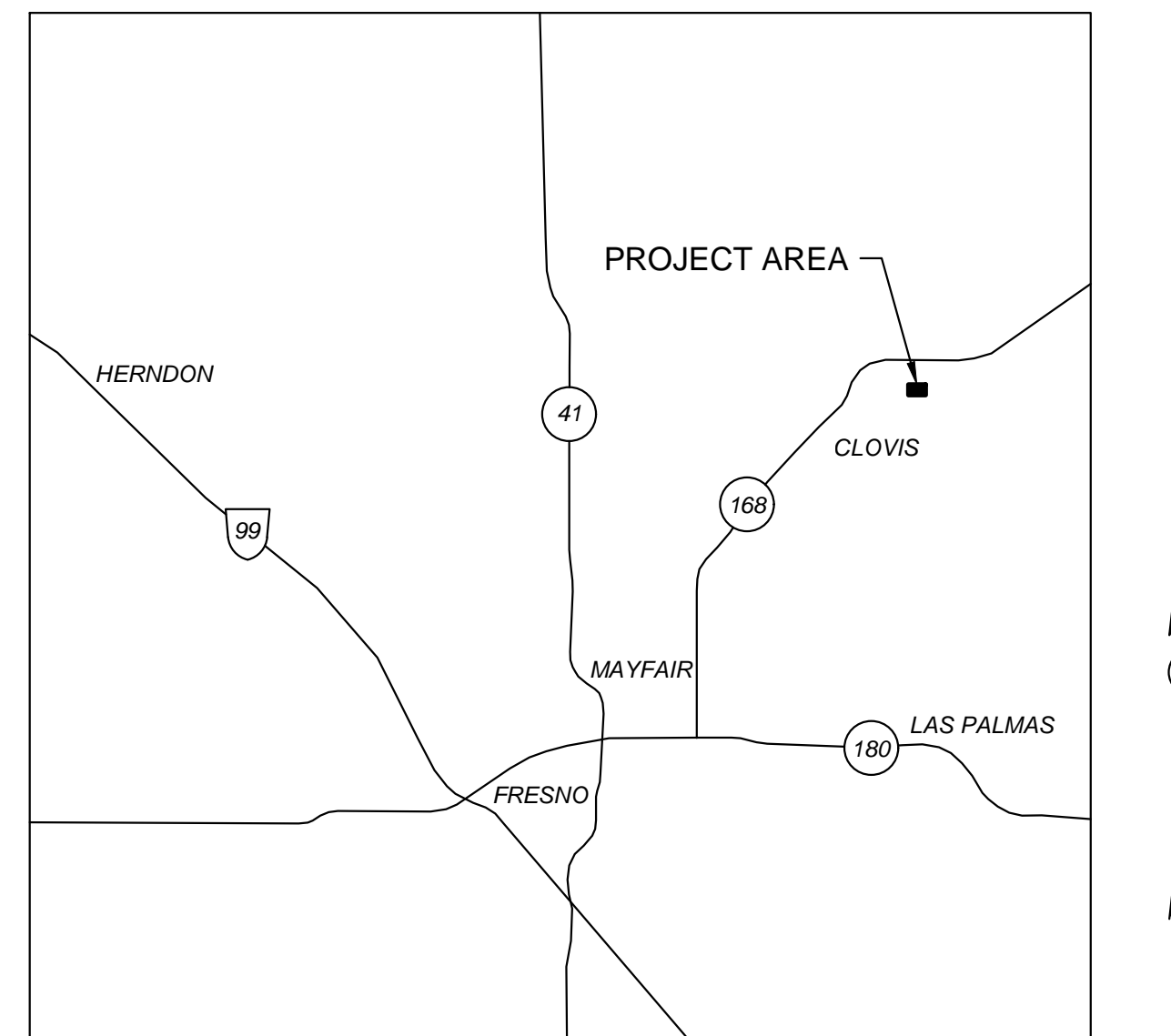
- OWNER:** CLOVIS UNIFIED SCHOOL DISTRICT  
1450 HERNDON AVE  
CLOVIS, CA 93611  
PHONE: (559) 327-9000  
CONTACT: DENVER STAIRS  
E-MAIL: DenverStairs@clovisusd.k12.ca.us
- CIVIL ENGINEER:** BLAIR, CHURCH & FLYNN CONSULTING ENGINEERS  
451 CLOVIS AVENUE, SUITE 200  
CLOVIS, CA 93612  
PHONE: (559) 326-1400  
CONTACT: LANE BADER  
E-MAIL: lbader@bcf-engr.com
- STRUCTURAL ENGINEER:** BLAIR, CHURCH & FLYNN CONSULTING ENGINEERS  
451 CLOVIS AVENUE, SUITE 200  
CLOVIS, CA 93612  
PHONE: (559) 326-1400  
CONTACT: BRIAN BROOKS  
E-MAIL: bbrooks@bcf-engr.com
- LANDSCAPE ARCHITECT:** BLAIR, CHURCH & FLYNN CONSULTING ENGINEERS  
451 CLOVIS AVENUE, SUITE 200  
CLOVIS, CA 93612  
PHONE: (559) 326-1400  
CONTACT: DAVE BRILEY  
E-MAIL: dbriley@bcf-engr.com
- ELECTRICAL ENGINEER:** HARDIN DAVIDSON ENGINEERING  
356 POLLASKY AVENUE, SUITE 200  
CLOVIS, CA 93612  
PHONE: (559) 323-4995  
CONTACT: SCOTT DAVIDSON  
E-MAIL: sd@hardin-davidson.com
- MODULAR BUILDING COMPANY:** MOBILE MODULAR  
5700 LAS POSITAS  
LIVERMORE, CA 94550  
PHONE: (925) 273-9786  
CONTACT: JENNY LEVAS  
E-MAIL: jenny.levas@mobilemodular.com

## SCOPE OF WORK:

- RELOCATION OF (1) 24'x40' PORTABLE BUILDING, SITE CONCRETE IMPROVEMENTS AND LANDSCAPE AND IRRIGATION IMPROVEMENTS.

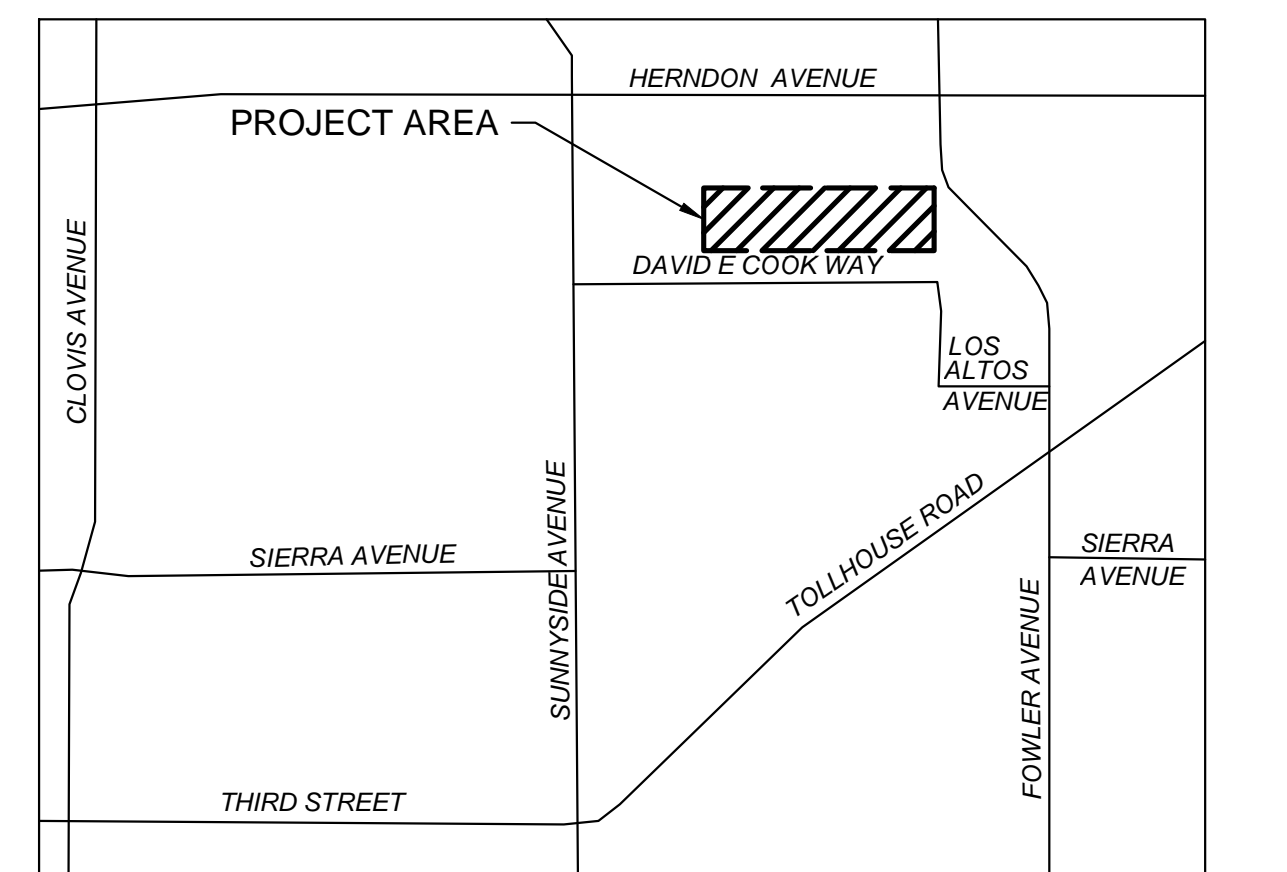
## NOTE:

THIS PORTABLE BUILDING IS ONLY FOR TEMPORARY USE AND IS LIMITED TO A MAXIMUM USE OF THREE YEARS FROM THE DATE OF INSTALLATION.



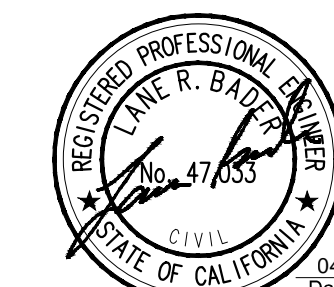
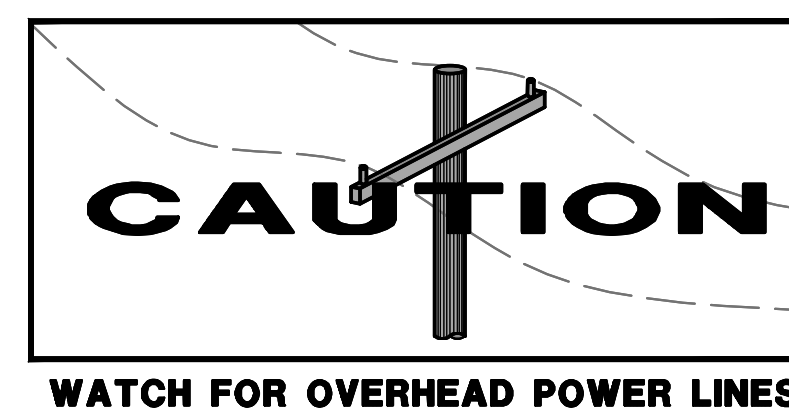
## AREA MAP

NOT TO SCALE



## VICINITY MAP

NOT TO SCALE



04/28/2022  
Date Signed:



04/28/2022  
Date Signed:

CONSULTANT	REF. & REV.	CLOVIS UNIFIED SCHOOL DISTRICT	
Blair, Church & Flynn Consulting Engineers 451 Clovis Avenue, Suite 200 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500		PORTABLE ADDITION CLOVIS ONLINE CHARTER COVER SHEET	CONST. DOCUMENTS
		DR. BY: DG	C100L
		CH. BY: LRB	
		DATE: 04/28/2022	
		SCALE AS NOTED	

## STATEMENT OF GENERAL CONFORMANCE:

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED PROFESSIONALS AND/OR CONSULTANTS.

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THE DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THE STATE. IT HAS BEEN EXAMINED BY ME FOR:

- X DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
- X COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATIONS 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 4-341, AND 4-344" OF TITLE 24, PART I.

I CERTIFY THAT:

ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX THIS DRAWING OR PAGE

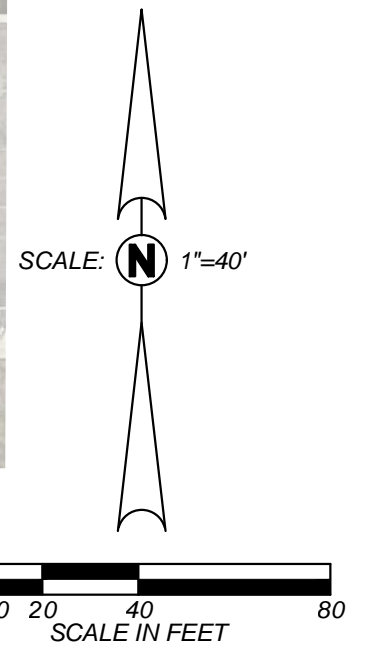
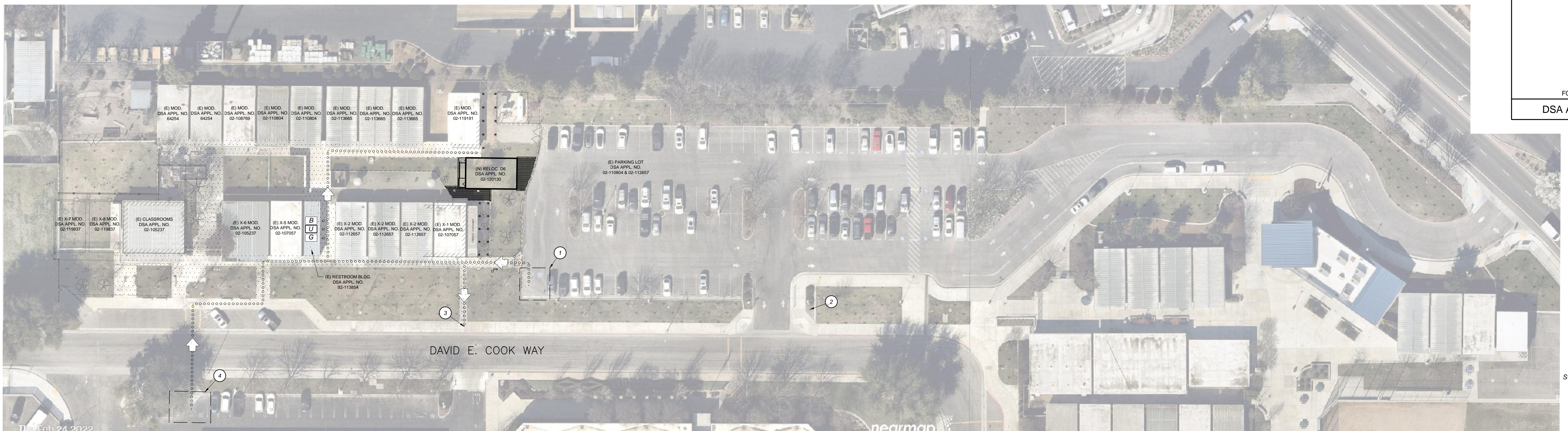
IS/ARE IN GENERAL, CONFORMANCE AND HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS

*B. B.* 04/28/22  
ENGINEER'S SIGNATURE DATE  
BRIAN BROOKS  
STRUCTURAL ENGINEER  
BLAIR, CHURCH & FLYNN CONSULTING ENGINEERS  
S6614 03/31/23  
LICENSE NUMBER EXPIRATION DATE

## TABLE OF CONTENTS

SHEET NUMBER	SHEET TITLE
<b>GENERAL</b>	
C100L	COVER SHEET
C101L	ACCESSIBILITY PLAN
C102L	FIRE ACCESS PLAN
<b>CIVIL</b>	
C103L	TOPOGRAPHIC SURVEY NOTES AND LEGEND
C104L	TOPOGRAPHIC SURVEY
C201L	DEMOLITION PLAN
C301L	SITE PLAN
C401L	GRADING AND DRAINAGE PLAN
X101L	DETAILS
<b>LANDSCAPING</b>	
L101L	IRRIGATION PLAN
L102L	IRRIGATION DETAILS
L201L	PLANTING PLAN
<b>ELECTRICAL</b>	
E101	ELECTRICAL NOTES
E102	ELECTRICAL DETAILS
E103	ELECTRICAL LINE DIAGRAMS
E201	FIRE ALARM NOTES AND DETAILS
E202	FIRE ALARM SITE AND BUILDING PLANS
E301	ELECTRICAL SITE PLAN
ARCHITECTURAL PC 02-105136, SERIAL # 7702-7703	
COVER SHEET	
A1	FLOOR PLAN
A2	MECHANICAL AND REFLECTED CEILING PLANS
A3	ELECTRICAL POWER AND SIGNAL PLAN
A4	SECTIONS AND DETAILS
A5	DETAILS
S1W50	50 PSF WOOD FOUNDATION PLAN DETAILS
S2	ROOF-CEILING-FLOOR FRAMING PLANS
S3	LONGITUDINAL BUILDING SECTION
S4	CONNECTION DETAILS
S5R	HANDICAP ACCESS RAMP
RELOCATABLE BUILDING PC 04-119306	
COVER SHEET	
F1	A-NUMBERS
F2	A-NUMBERS
F3	FOUNDATION PLANS
F3A	FOUNDATION PLANS
F3B	FOUNDATION PLANS
F4	FOUNDATION PLANS
F4A	FOUNDATION PLANS
F4B	FOUNDATION PLANS
F4C	FOUNDATION PLANS
F5	FOUNDATION PLANS
F5A	FOUNDATION PLANS
F5B	FOUNDATION PLANS
F5C	FOUNDATION PLANS
F6	DETAILS
F7	GENERAL SPECIFICATIONS
F7A	BSA FORM 169
F8	ADJACENT BUILDINGS DETAILS
F9	ADJACENT BUILDINGS DETAILS
TOTAL SHEET COUNT: 48	





**SITE LEGEND:**

- EXISTING ACCESSIBLE PATH OF TRAVEL
- EXISTING PROPERTY LINE
- EXISTING BUILDING
- NEW BUILDING
- EXISTING CONCRETE TO REMAIN
- EXISTING TURF TO REMAIN
- PROPOSED CONCRETE
- EXISTING ACCESSIBLE BOYS RESTROOM PER DSA APP. NO. 02-113854
- EXISTING ACCESSIBLE GIRLS RESTROOM PER DSA APP. NO. 02-113854
- EXISTING ACCESSIBLE MENS AND WOMENS UNISEX RESTROOM PER DSA APP. NO. 02-113854
- EXISTING VAN ACCESSIBLE PARKING WITH TRUNCATED DOMES PER DSA APP. NO. 02-112657
- EXISTING ACCESSIBLE TOW AWAY SIGN PER DSA APP. NO. 02-112657
- ROUTE TO PUBLIC WAY
- ACCESSIBLE PARKING STALLS & ACCESSIBLE RAMP PER DSA APP. NO. 02-112657

**PARKING LOT SUMMARY:**

DSA APP #	TOTAL STALLS PROVIDED	ACCESSIBLE STALLS PROVIDED	ACCESSIBLE STALLS REQUIRED PER CBC 11-B208.2
02-110804	40	3 TOTAL (1 VAN)	2 TOTAL (1 VAN)
02-112657			

**PROJECT DATA / CODE ANALYSIS:**

(2019 CBC, CFC & City of Clovis municipal code amendments)

CONSTRUCTION TYPE:..... V-B  
 (CBC 602.5)

FIRE SPRINKLERS:..... NO  
 1. It is a relocatable building at the site for less than three years (CBC 903.2.20).  
 2. Total New Building Area (960 SF) is less than 2,500 SF code maximum for no sprinklers.  
 3. The area increase to the existing building (see thick dashed line) is less than 25% of existing building area (2000 SF)  
 (CLOVIS MG 4-4.102 AMENDMENT TO CFC 903)

OCCUPANCY CLASSIFICATION:..... E, EDUCATION GROUP  
 (CBC 305)

BUILDING HEIGHT:..... ALLOWABLE 40' Max.  
 (CBC TABLE 504.3) PROPOSED +/- 16'

BUILDING AREA:..... ALLOWABLE 9,500 SF  
 (CBC TABLE 506.2)

The separation of the proposed and existing buildings is less than 20' (CBC Table 602) and the modular buildings do not have fire rated exterior walls so they shall be considered a portions of one building as follows\*:  
 (CBC 705.3 Exception 1)

CONSTRUCTION TYPE:..... V-B

OCCUPANCY CLASSIFICATION:..... E, EDUCATION GROUP

EXISTING 8,000 SF  
 PROPOSED 960 SF  
 TOTAL 8,960 SF (< 9,500 SF)

\*See site plan notes for additional code analysis.

OCCUPANT LOAD CALCULATION (CBC TABLE 1004.5)

Proposed 24' x 40' Classroom  
 CLASSROOM AREA:..... 960 SF  
 OCC. LOAD FACTOR:..... 1 OCC./20 SF NET  
 960/20 = 48 \*\*

Total: 48

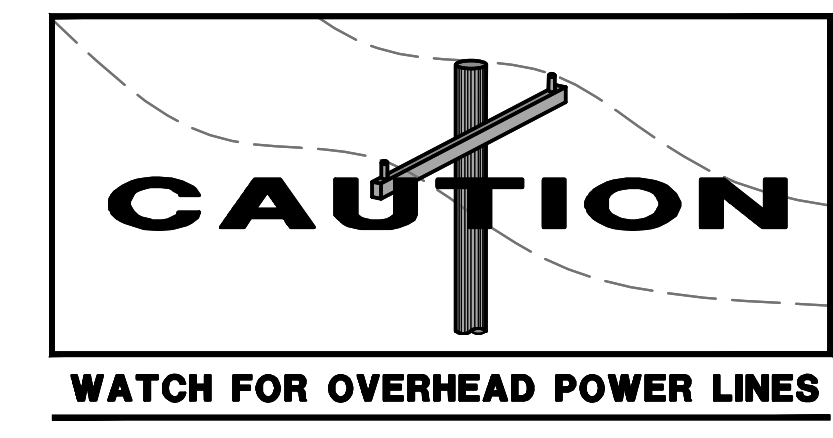
\*\*1 EXIT PER CLASSROOM REQUIRED AND 1 EXIT PROVIDED  
 (CBC TABLE 1006.2.1 FOR MAXIMUM OCCUPANT LOAD OF 49)

**PATH OF TRAVEL REQUIREMENTS:**

- DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE PATH-OF-TRAVEL (P.O.T.) 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 P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NON-COMPLIANT 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 NON-COMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. 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 P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-COMFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.
- THE ENGINEER HAS SURVEYED/INSPECTED THE PATH OF TRAVEL (P.O.T.) AS INDICATED ON THE PLANS AND HAS FOUND IT TO BE, OR HAS INDICATED ON THE PLANS REMEDIAL WORK WHICH WOULD CAUSE IT TO BE, A BARRIER FREE ACCESSIBLE ROUTE:
  - AT LEAST 48" IN WIDTH, OR AS APPROVED BY CODE, WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING 1/4".
  - WITH A FIRM, STABLE, AND SLIP RESISTANT WALKING SURFACE; WITH A RUNNING SLOPE OF 1:20 OR LESS, UNLESS OTHERWISE INDICATED, AND A CROSS SLOPE OF 1:48 OR LESS;
  - IS FREE OF OVERHEAD OBSTRUCTIONS WITHIN 80" ABOVE THE WALKING SURFACE
  - IS FREE OF OBJECTS WHICH PROTRUDE MORE THAN 4" BETWEEN THE HEIGHTS OF 27" AND 80" ABOVE THE WALKING SURFACE.
- PASSING SPACES (11B-403.5.3) OF 60"x60" MIN. ARE LOCATED NOT MORE THAN 200' APART. WALKS WITH CONTINUOUS GRADIENTS HAVE 60" IN LENGTH OF LEVEL AREAS (11B-403.7) NOT MORE THAN 400' APART. THERE IS NO DROP-OFF OVER 4" AT THE EDGE OF WALK OR LANDING UNLESS IDENTIFIED BY A GUARD, A HANDRAIL, OR WARNING CURB AT LEAST 6" IN HEIGHT ABOVE THE WALK (11B-303.5).

**NOTE:**

ALL DOORS TO ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 5 OR MORE SHALL BE EQUIPPED WITH HARDWARE THAT IS LOCKABLE FROM THE INSIDE PER CBC 1010.1.11

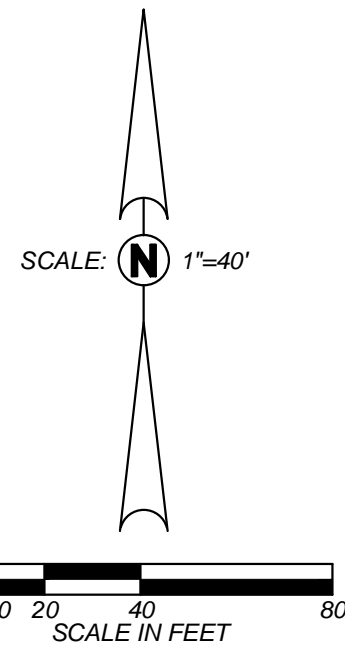


**Blair, Church & Flynn**  
 CONSULTING ENGINEERS  
 455 Clovis Avenue, Suite 500  
 Clovis, California 93612  
 Tel (559) 326-1400  
 Fax (559) 326-1500

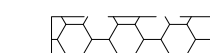
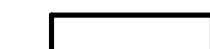





CONSULTANT	REF. & REV.	CLOVIS UNIFIED SCHOOL DISTRICT	
Blair, Church & Flynn Consulting Engineers 455 Clovis Avenue, Suite 500 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500		PORTABLE ADDITION CLOVIS ONLINE CHARTER ACCESSIBILITY PLAN	CONST. DOCUMENTS
		DR. BY: DG CH. BY: LRB DATE: 04/28/2022 SCALE AS NOTED	C101L





**SITE LEGEND:**

-  EXISTING 20' WIDE FIRE LANE
-  NEW BUILDING
-  EXISTING BUILDING
-  EXISTING FIRE HYDRANT
-  ALL MODULAR UNITS WITHIN DASHED LINE SHALL BE CONSIDERED AS PORTIONS OF ONE BUILDING (CBC 705.3 EXCEPTION 1)



**CLOVIS FIRE DEPARTMENT**  
Standard #2.3  
**Water Flow for Sprinkler System**

Whereas the City of Clovis Water Department is the sole water purveyor for all building properties within its city limit;

The following water supply information is the recognized standard water-flow data for the City of Clovis. This information is provided for the purpose of designing and installation of fire sprinkler systems.

Static: 45 PSI  
Residual: 35 PSI  
GPM: 1800 GPM

Exception:  
Under special situations, the Clovis Fire Department reserves the right to require testing of the water supply in the general area of a project, to verify or determine the actual available water flow. The water supply flow testing shall be conducted by an approved third-party entity and will require an Operational Permit for the use of the fire hydrants in conformance with C.M.C. 6.5.109. All water-flow testing shall be done in the presence of a Clovis Fire Official. When this testing is required, the most regulating water-flow data will be used.

Regarding: Clovis Adult Special Education  
Location: 1655 David E Cook Way, Clovis CA 93611  
Date: February 15, 2022

To Interested Parties,

The above project site has been evaluated and found to be included in the water-flow criteria of Clovis Fire Standard #41. If you should have any questions please feel free to call the Clovis Fire Department.

Clovis Fire Department  
1233 Fifth Street  
Clovis, CA 93612  
559-324-2200

Sincerely,

**FIRE AUTHORITY**

**ADSA 810**  
**FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL**

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.  
To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, ADSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new buildings, additions to existing buildings, and for site alternate design means for the department emergency vehicle access, and fire suppression water supply. Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgment by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and stamped onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and stamped on the fire access site plan.  
For additional information refer to the instructions at the end of this form and DSA Policy PL 09-01: Fire Flow for Buildings.

**PROJECT INFORMATION**

School District/Owner: **CLOVIS UNIFIED SCHOOL DISTRICT**  
Project Name/School: **CLOVIS ONLINE CHARTER**  
Project Address: **1655 DAVID E COOK WAY, CLOVIS, CA 93611**

**FIRE & LIFE SAFETY INFORMATION**

1. Has a fire hydrant flow test been performed within the past 12 months? Yes  No   
(If yes, provide a copy of the test data.)

2. Was the fire hydrant water flow test performed as part of this LFA review? Yes  No

3. Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? (If yes, indicate FHSZ classification below.)  
Refer to the following website for FHSZ locations: <http://www.fire.ca.gov/fhsz/>  
Moderate  High  Very High

Wildland Interface Area (WIFA), if any designations are checked, project design must meet the requirements of CFC Chapter 7A.1.

DSG DSA #19 (revised 12/2020) DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

**ADSA 810**  
**FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL**

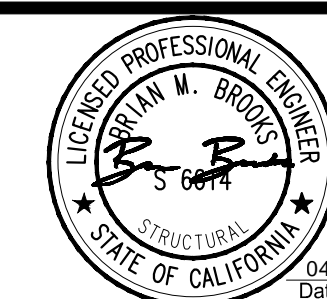
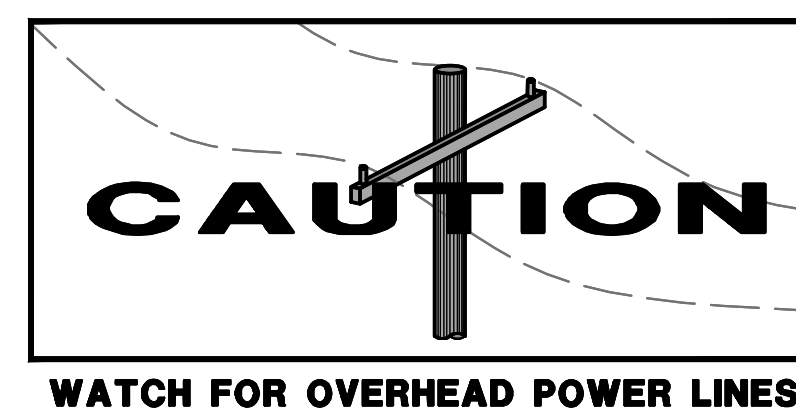
CONDITION MEANS AND METHOD RESOLUTION	ALTERNATE ACCEPTED			
	Yes	No	NR	NR
4. Emergency vehicle access (adequacy do not meet CFC requirements.)			X	
4a. Acceptable Alternate: Emergency vehicles and personnel access is provided by the project architect is acceptable for providing the suppression and protection of life and property.				X
5. Fire Hydrants: Number and spacing does not meet CFC requirements.			X	
5a. Acceptable Alternate: Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				X
6. Fire Hydrants: Water flow and pressure are less than CFC minimum.			X	
6a. Acceptable Alternate: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				X
7. Location of the department connection(s) serving the sprinkler systems or standpipe systems does not meet CFC requirements.			X	
7a. Acceptable Alternate: The location of fire department connection serving the fire sprinkler system and standpipe system is acceptable for providing fire suppression and protection of life and property.				X

Submittal Statement/ Acceptance of Acceptable Design Alternates  
By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated in items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.  
Accepted by: \_\_\_\_\_ Title: \_\_\_\_\_  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**LOCAL FIRE AUTHORITY (LFA) INFORMATION**

LFA Agency Name: \_\_\_\_\_  
LFA Review Official: \_\_\_\_\_  
Title: \_\_\_\_\_ Work Phone: \_\_\_\_\_  
Work Email: \_\_\_\_\_  
LFA Reviewer's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

DSG DSA #19 (revised 12/2020) DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA



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Blair, Church & Flynn  
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Fax (559) 326-1500

REF. & REV.

<b>CLOVIS UNIFIED SCHOOL DISTRICT</b>	
<b>PORTABLE ADDITION CLOVIS ONLINE CHARTER FIRE ACCESS PLAN</b>	
<b>CONST. DOCUMENTS</b>	<b>C102L</b>
DR. BY: DG	SCALE AS NOTED
CH. BY: LRB	
DATE: 04/28/2022	



**GENERAL TOPOGRAPHIC SURVEY LEGEND:**

(NOT ALL SYMBOLS SHOWN APPEAR ON THE PLANS)

AB	ABUTMENT	POS	POINT ON SLOPE	□ COPB	COMMUNICATION PULLBOX	○ 4" SLE	PIPE SLEEVE; DIAMETER AS SHOWN	— W 8"	WATER LINE; SIZE AS NOTED	— — — — —	RIGHT-OF-WAY CENTER LINE
AC	ASPHALTIC CONCRETE	RCP	REINFORCED CONCRETE	□ CVA	COMMUNICATION VAULT	—	SLOPE	— AG 12"	AGRICULTURAL IRRIGATION LINE; SIZE AS NOTED	— — — — —	SETBACK LINE
ACE	ASPHALTIC CONCRETE EDGE	RREL	RIPARIAN EDGE OF LAKE	△ 312.55	SURVEY CONTROL MONUMENT	□ SLPB	STREET LIGHT PULLBOX	— A 1"	AIR LINE; SIZE AS NOTED		
AD	ASPHALTIC CONCRETE DIKE	RIEP	RIPARIAN EDGE OF POND	○ DF	DRINKING FOUNTAIN	○ 4" SLV	PIPE SLEEVE; DIAMETER AS SHOWN	— C	COMMUNICATION LINE		
AW	ALL-WEATHER TRACK	RIES	RIPARIAN EDGE OF STREAM	○ DS	DOORSTOP	○ SP	DRYWELL	— 350	MAJOR GRADE CONTOUR LINE		
BD	BRIDGE DECK	RIEW	RIPARIAN EDGE OF WETLAND	○ DW	DOORSTOP	□ SPB	SIGNAL PULLBOX	— 34.5	MINOR GRADE CONTOUR LINE		
BC	BOTTOM FACE OF CURB	RIFL	RIPARIAN FLOWLINE	○ EG	ELECTRICAL GROUND	*	SPRINKLER	— CN 2"	CHILLED WATER LINE; SIZE AS NOTED		
BOST	STEPS	RIMP	RIP-RAP SLOPE PROTECTION	□ EM	ELECTRICAL METER	○ 4" SPD	STEEL POST; DIAMETER AS SHOWN	— CWR 2"	CHILLED WATER RETURN LINE; SIZE AS NOTED		
BOTR	TOP OF ROOF	RR	ROCK	□ EPB	ELECTRICAL PULLBOX	○ 12" SS	SAND SEPARATOR; SIZE AS NOTED	— CWS 2"	CHILLED WATER SUPPLY LINE; SIZE AS NOTED		
BGV	BUILDING VENTS	RW	RETAINING WALL	⊕	ELECTRICAL VAULT LID	○ 24" STP	STAND PIPE; DIAMETER AS NOTED	— — — — —	LIMIT OF DIRT		
BOD	BOTTOM OF DITCH	SB	SPEED BUMP	○ ETS	GAS ELECTRONIC TESTING STATION	○ 12" STUMP	TREE STUMP; DIAMETER AS SHOWN	— — — — —	LIMIT OF TURF		
BR	BARRICADE	SDCD	STORM DRAIN CROSS DRAIN	○ FDC	FIRE DEPARTMENT CONNECTION	○ MW	SURVEY MONUMENT WELL	— DL 1"	DRAIN LINE; SIZE AS NOTED		
BRK	BRICK	SDFL	STORM DRAIN FLOWLINE	○ FHL	FIRE HYDRANT	○ 4" TEL	TELEPHONE; DIAMETER AS SHOWN	— EMS	EMERGENCY MANAGEMENT SYSTEM		
BW	BARRIER WALL	SDGR	STORM DRAIN GRATE	○ FP	FENCE POST	⊕	TELEPHONE MANHOLE	— FA	FIRE ALARM LINE		
CB	CATCH BASIN	SDMS	STORM DRAIN MANHOLE W/ GRATE	○ FLP	FLAG POLE	○ TN	TENNIS NET POLE	— F 8"	FIRE LINE; SIZE AS NOTED		
CCA	CONCRETE DRIVE APPROACH	SSFL	SEWER FLOWLINE	○ GAS	GAS LINE; DIAMETER AS SHOWN	□ TP	TELEPHONE POLE	— FO	FIBER OPTIC LINE		
CE	CONCRETE EDGE	SDTH	STORM DRAIN TRENCH	□ GR	GAS REGULATOR	□ TPB	TELEPHONE PULLBOX	— — — — —	DRAIN TUBE		
CMP	CORRUGATED METAL PIPE	SSGT	STORM DRAIN GREASE TRAP	□ GV	IRRIGATION GATE VALVE	□ TPB	TELEVISION PULLBOX	— HW 2"	HOT WATER LINE; SIZE AS NOTED		
CON	CONCRETE	SSST	SEWER TANK (SEPTIC)	□ H	GAS METER	⊕	TREE; SPREAD SHOWN GRAPHICALLY AND TRUNK DIAMETER AS SHOWN	— HWR 2"	HOT WATER RETURN LINE; SIZE AS NOTED		
COTH	COMMUNICATION TRENCH	SSTH	SEWER TRENCH	□ I	GAS METER	⊕	TREE; SPREAD SHOWN GRAPHICALLY	— HWS 2"	HOT WATER SUPPLY LINE; SIZE AS NOTED		
CR	CROWN OF ROAD	SWK	SIDEWALK	○ GP	GOAL POST	○ 6	PALM TREE; SPREAD SHOWN GRAPHICALLY	— HYD	HYDRAULIC LINE		
CRD	QUARTER CROWN	SWL	SWALE	○ GR	GUY POLE	○ 6	PALM TREE; SPREAD SHOWN GRAPHICALLY	— ID 18"	IRRIGATION DISTRICT; SIZE AS NOTED		
CS	CONCRETE SLAB	T	TURF	○ GS	GATE STOP	□ TSB	TELEPHONE SPLICE BOX	— IRR 3"	IRRIGATION MAIN LINE; SIZE AS NOTED		
CULV	CULVERT	TBC	TOP BACK OF CURB	○ GSR	GAS RISER	□ TSPB	TRAFFIC SIGNAL PULLBOX	— L 1"	IRRIGATION LATERAL LINE; SIZE AS NOTED		
CW	CONCRETE WALL	TBW	TOP BACK OF WALK	○ GV	GAS VALVE	□ TSPB	TRAFFIC SIGNAL PULLBOX	— ITS	INTELLIGENT TRAFFIC SYSTEM		
DD	DOWN DRAIN	TF	TOP OF FOOTING	○ GRD	GROUNDING ROD	□ UP	UTILITY POLE	— JT	JOINTLY TRENCHED UTILITIES		
DFL	DITCH FLOWLINE	TFC	TOP FACE OF CURB	○ HR	HOSE BIBB	○ VB	VACUUM BREAKER	— OC	OVERHEAD COMMUNICATIONS LINE		
DWY	DRIVEWAY	TFW	TOP FACE OF WALK	○ HR	HANDRAIL	○ VN	VOLLEYBALL NET POST	— OE	OVERHEAD ELECTRIC LINE		
ECTH	ELECTRICAL TRENCH	TLTH	TELEPHONE TRENCH	○ IR	IRRIGATION CONTROLLER	○ 2" VP	VENT PIPE; DIAMETER AS SHOWN	— OEC	OVERHEAD ELECTRIC AND COMMUNICATION LINE		
EDR	EDGE OF DIRT ROAD	TOB	TOP OF BANK	□ CB	IRRIGATION DISTRICT MANHOLE	○ WELL	WELL	— OET	OVERHEAD ELECTRIC AND TELEPHONE LINE		
EGR	EDGE OF GRAVEL ROAD	TOE	TOE OF SLOPE	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
EOD	EDGE OF OILED DIRT	TOP	TOP OF SLOPE	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
EP	EDGE OF PAVEMENT	TRDD	TRUNCATED DOMES	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
ES	EDGE OF SHOULDER	TVTH	TV TRENCH	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
ET	EDGE OF TRAVELED WAY	TW	TOP OF WALL	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
FF	FINISH FLOOR	UTH	UNIDENTIFIED TRENCH/SCAR LINE	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
FOTH	FIBER OPTIC TRENCH	VGFL	VALLEY GUTTER FLOWLINE	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
GB	GRADE BREAK	VGR	VALLEY GUTTER	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
GFL	GUTTER FLOWLINE	WALBA	BARRIER WALL	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
GRA	GRAVEL SPOT SHOT	WALBW	BLOCK WALL	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
GRAE	EDGE OF GRAVEL	WALCW	CONCRETE WALL	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
GSTH	GAS TRENCH	WALHW	HEAD WALL	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
HDR	WOOD HEADER	WALRW	RETAINING WALL	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
HW	HEAD WALL	WALWW	WING WALL	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
KR	K-RAIL	WCR	WHEELCHAIR RAMP	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
LIP	LIP OF GUTTER	WLPD	WELL PAD	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
LSDE	DECOMPOSED GRANITE EDGE	WTTH	WATER TRENCH	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
LSDG	DECOMPOSED GRANITE	WW	WING WALL	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
LSGC	GROUND COVER	(335.21)	EXISTING ELEVATION	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
LSGF	GOLF COURSE FAIRWAY	○ AL	ACCENT LIGHT	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
LSGG	GOLF COURSE GREEN	○ AL	ACCENT LIGHT	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
LSGT	GOLF COURSE TEE	○ AL	ACCENT LIGHT	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
LSSA	SAND	□ BA	BACKFLOW ASSEMBLY	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
LSSP	SLOPE PROTECTION	□ BA	BACKFLOW ASSEMBLY	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
LSST	GOLF COURSE SAND TRAP	○ BOV	BLOW-OFF VALVE	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
NPTH	NON-POTABLE TRENCH	○ BM	BM=BENCHMARK; OR SBM=SITE BENCHMARK	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
PA	PATIO	○ BD	BOLLARD	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		
POTH	PROPANE GAS TRENCH	○ CD	CLEANOUT	□ CB	IRRIGATION REMOTE CONTROL VALVE	□ W	WATER METER	— OETV	OVERHEAD ELECTRIC AND TELEVISION LINE		

DSA APP # 02-120130



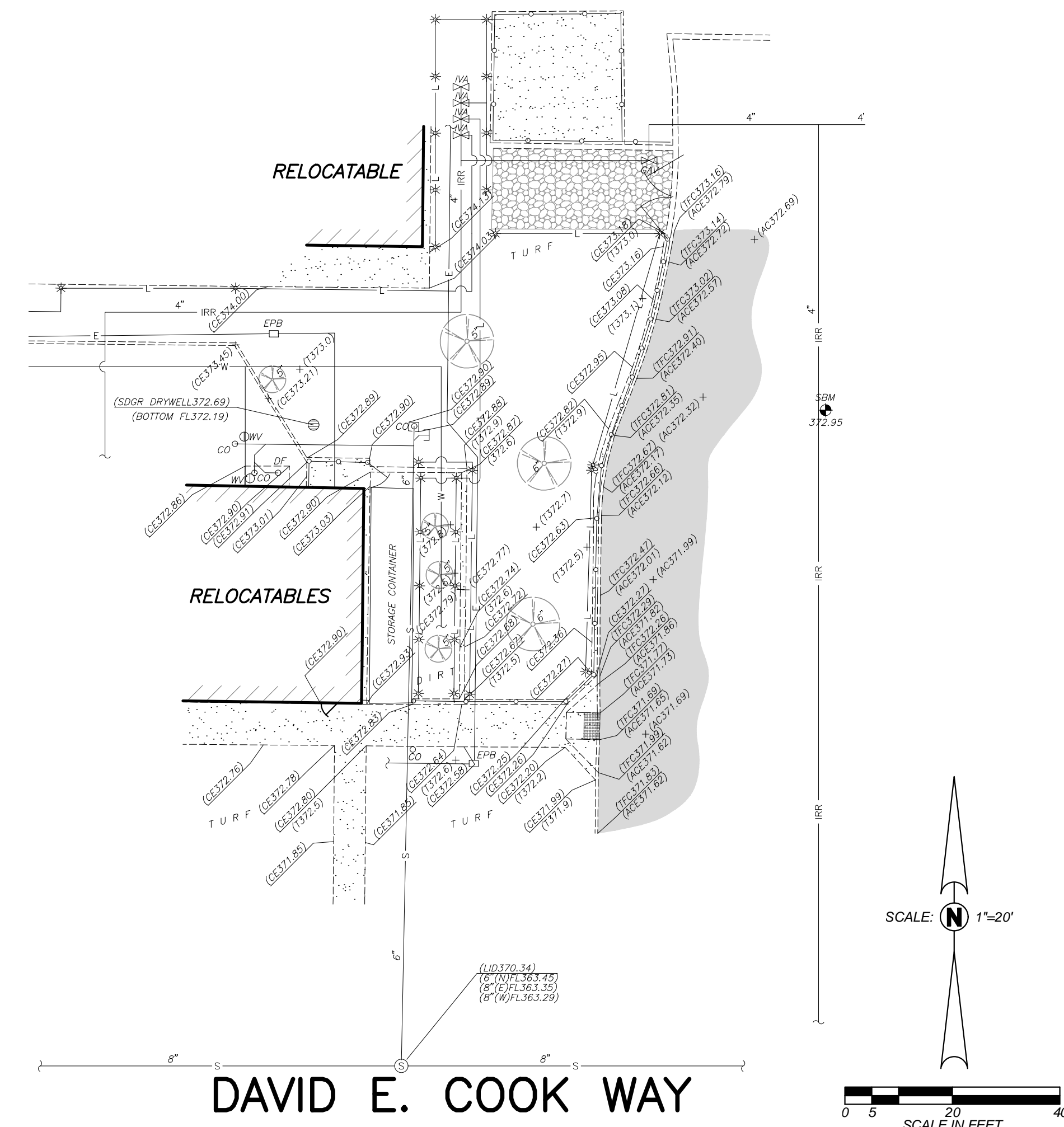
04/28/2022  
Date Signed:

**Blair, Church & Flynn**  
CONSULTING ENGINEERS

04/28/2022  
Date Signed:

CONSULTANT	REF. & REV.	CLOVIS UNIFIED SCHOOL DISTRICT	
Blair, Church & Flynn Consulting Engineers 455. Clovis Avenue, Suite 500 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500		PORTABLE ADDITION CLOVIS ONLINE CHARTER TOPOGRAPHIC SURVEY LEGEND	CONST. DOCUMENTS C103L
DR. BY: DG	CH. BY: LRB	DATE: 04/28/2022	SCALE AS NOTED



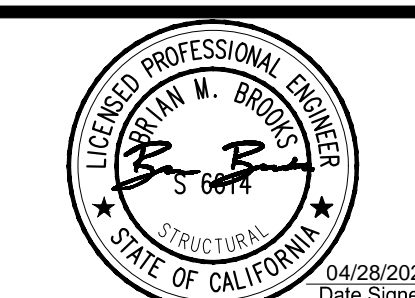
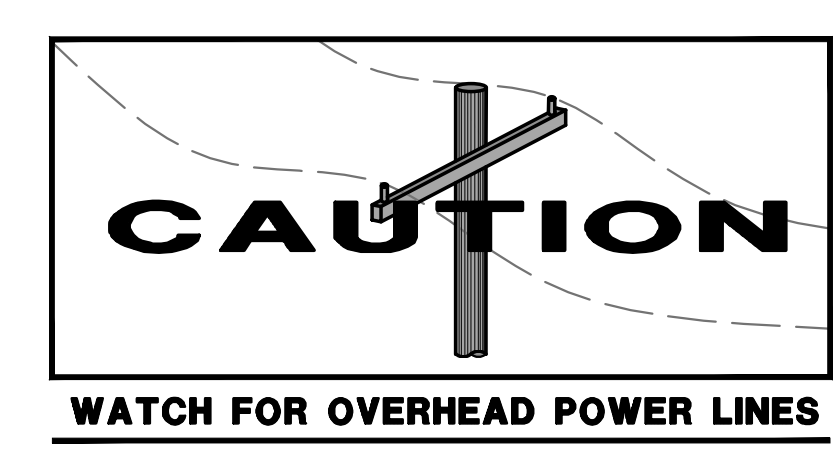


**SURVEY NOTES:**

1. THIS TOPOGRAPHIC SURVEY LOCATES SPECIFIC PHYSICAL FEATURES OF THE SITE AND THEIR ELEVATION AS DETERMINED NECESSARY BY THE PROJECT ENGINEER. IT IS NOT A COMPLETE TOPOGRAPHIC SURVEY OF THE SITE. THE INFORMATION SHOWN REFLECTS THE DATA OBTAINED BY FIELD SURVEY CONDUCTED ON 12/21/2021.
2. UTILITY INFORMATION SHOWN HEREON IS BASED ON RECORD INFORMATION SUPPLIED TO THE ENGINEER BY UTILITY COMPANIES, PUBLIC AGENCIES AND THE PROPERTY OWNER, TOGETHER WITH OBSERVATION OF VISIBLE EVIDENCE BY A FIELD SURVEY. THE ENGINEER CAN MAKE NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF THE UNDERGROUND UTILITY FACILITIES SHOWN. PRIOR TO ANY SITE EXCAVATIONS, THE CONTRACTOR SHALL CONTACT THE OWNER AND UNDERGROUND SERVICE ALERT (USA) AND REQUEST THAT THEY IDENTIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AT THE SITE.

**SITE BENCHMARK:**

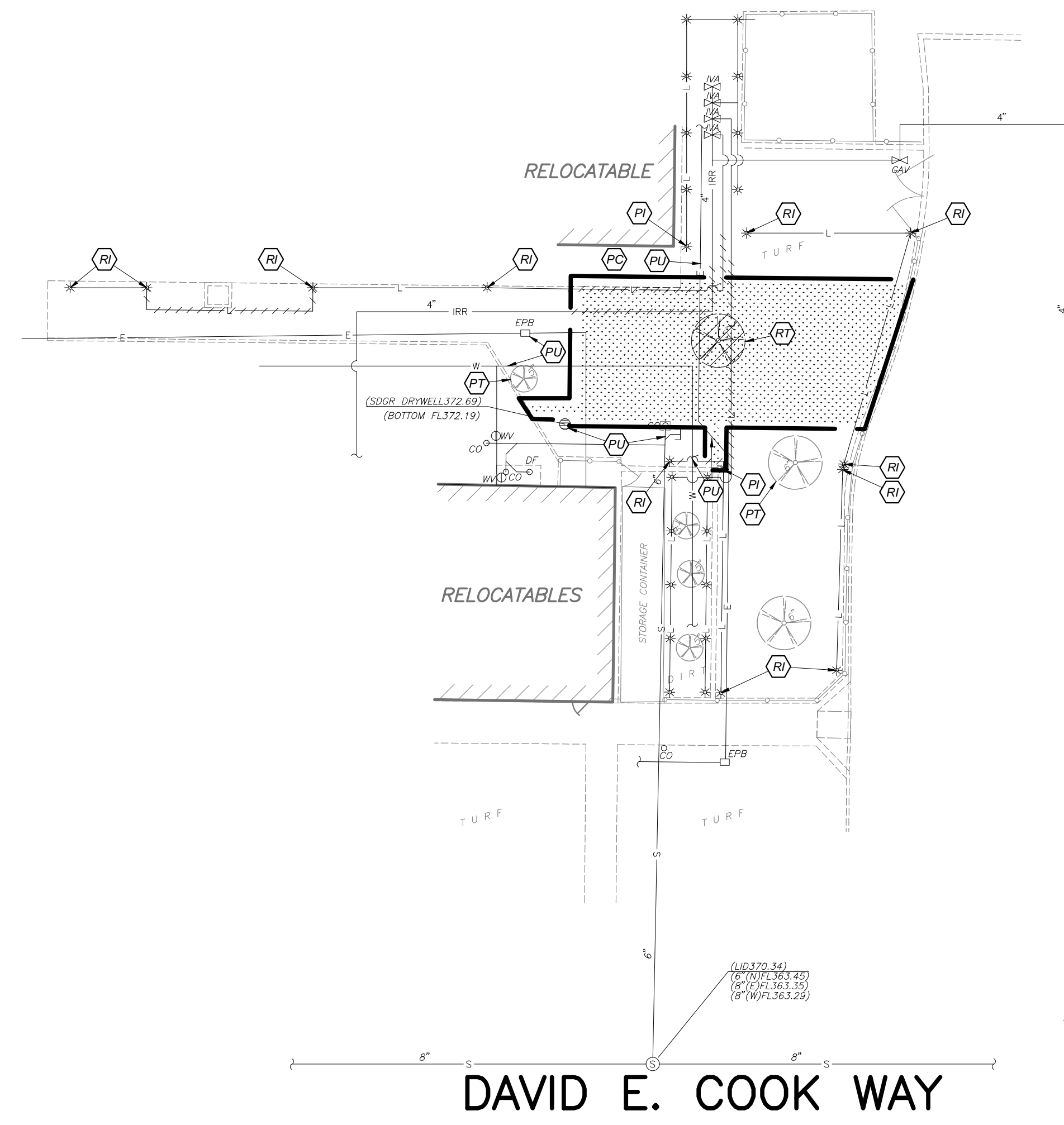
CHISELED "X" ON TOP FACE OF CURB IN PARKING LOT APPROXIMATELY 87 +/- FEET NORTHEASTERLY FROM THE NORTHEAST CORNER OF THE SOUTHERN RELOCATABLES BUILDING.  
 ELEV.= 372.95' NAVD88 DATUM



CONSULTANT	REF. & REV.	CLOVIS UNIFIED SCHOOL DISTRICT	
Blair, Church & Flynn Consulting Engineers 451 Clovis Avenue, Suite 500 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500		PORTABLE ADDITION CLOVIS ONLINE CHARTER TOPOGRAPHIC SURVEY	CONST. DOCUMENTS
			DR. BY: DG CH. BY: LRB DATE: 04/28/2022 SCALE AS NOTED
			<b>C104L</b>

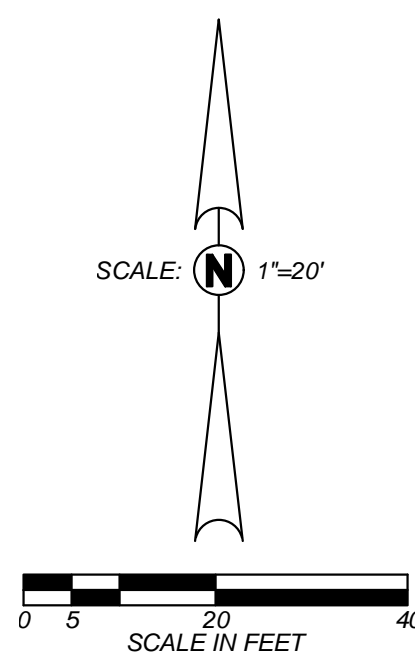
Drawing: P:\2022\103\2022\103\Blair\_Church\_Flynn\2022\103\_0251\_CUOnlineCharter\_Topographic.dwg, CT:021 - 10/25/22  
 Plot by: ghyam Apr 28, 2022 2:58pm





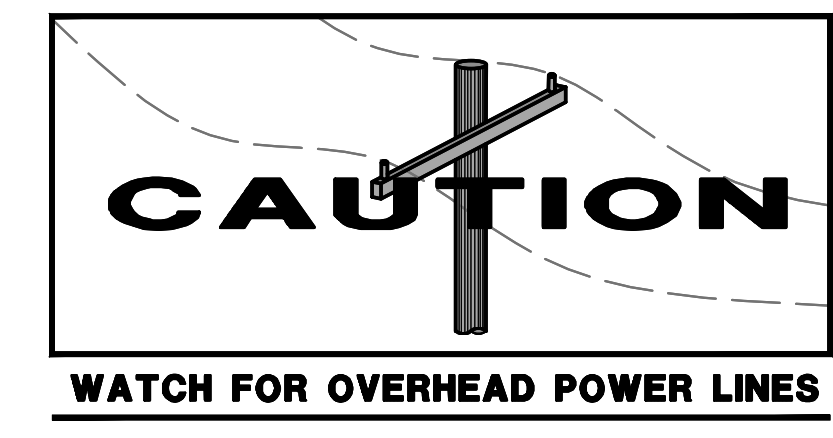
**DEMOLITION LEGEND:**

- REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS UNLESS OTHERWISE NOTED ON THE PLAN. THE REMOVAL OF IMPROVEMENTS MUST BE COORDINATED WITH ALL PLAN SHEETS. CONTRACTOR MUST ALSO COORDINATE REMOVAL OF IMPROVEMENTS WITH UTILITY AGENCIES. PROTECT ALL IMPROVEMENTS NOT DESIGNATED FOR REMOVAL. SEE NOTE 1
- LIMITS OF VEGETATION REMOVAL. 4" MINIMUM DEPTH
  - PROTECT CONCRETE IMPROVEMENTS TO REMAIN
  - PROTECT EXISTING IRRIGATION HEAD TO REMAIN
  - PROTECT TREE TO REMAIN
  - PROTECT UTILITY TO REMAIN
  - REMOVE AND SALVAGE EXISTING IRRIGATION HEAD AND RETURN TO DISTRICT
  - REMOVE TREE
  - IRRIGATION MAIN LINE ABANDONMENT
  - IRRIGATION LATERAL LINE ABANDONMENT
  - REMOVE TREE

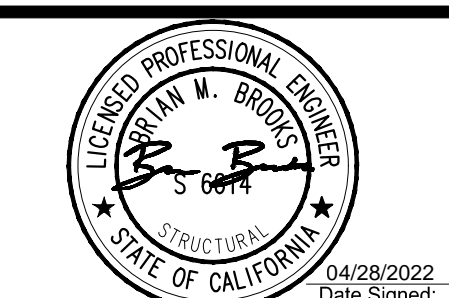


**GENERAL DEMOLITION NOTES:**

1. THE "LIMIT OF DEMOLITION" SHOWN IS APPROXIMATE AND IS GENERALLY CONSIDERED TO BE THE MINIMUM REMOVAL REQUIREMENTS. CONTRACTOR MUST COORDINATE AS NOTED IN THE LEGEND.
2. CONTRACTOR SHALL LEGALLY DISPOSE OF ALL DEMOLISHED MATERIALS OFF SITE.
3. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITY IMPROVEMENTS NOT SPECIFICALLY DESIGNATED FOR REMOVAL.
4. THE ON-SITE UNDERGROUND UTILITIES SHOWN ON THIS SHEET ARE AT APPROXIMATE LOCATIONS. THE EXTENT, LOCATIONS AND SIZES ARE UNKNOWN. THE CONTRACTOR SHALL POITHOLE TO LOCATE AND VERIFY THE UNDERGROUND UTILITY LINES PRIOR TO REMOVAL.
5. CONTRACTOR TO PROTECT AND PRESERVE IN PLACE ANY FOUND SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE RESET BY A CALIFORNIA LICENSED SURVEYOR AND THE APPROPRIATE PAPERWORK FILED WITH THE CITY OR COUNTY, AT CONTRACTOR'S EXPENSE.
6. ALL HAZARDOUS MATERIALS ENCOUNTERED DURING SITE DEMOLITION SHALL BE REMEDIATED AND DISPOSED OF PER STATE AND EPA REQUIREMENTS.
7. CONTRACTOR SHALL CONTACT AND COORDINATE WITH ALL UTILITY AGENCIES PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION.
8. ANY EXISTING UTILITIES AND/OR IMPROVEMENTS WHICH ARE TO REMAIN, THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE OWNER AND AGENCY HAVING AUTHORITY, AT THE CONTRACTOR'S SOLE EXPENSE.
9. REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS.
  - a) FOR CONCRETE REMOVAL, REMOVE TO THE NEXT NEAREST TOOLED JOINT OR EXPANSION JOINT OF IMPROVEMENTS DESIGNATED TO REMAIN.
10. COMPLIANCE WITH FIRE SAFETY DURING CONSTRUCTION WILL BE ENFORCED.
11. SEE IRRIGATION AND ELECTRICAL PLANS FOR ADDITIONAL DEMOLITION.



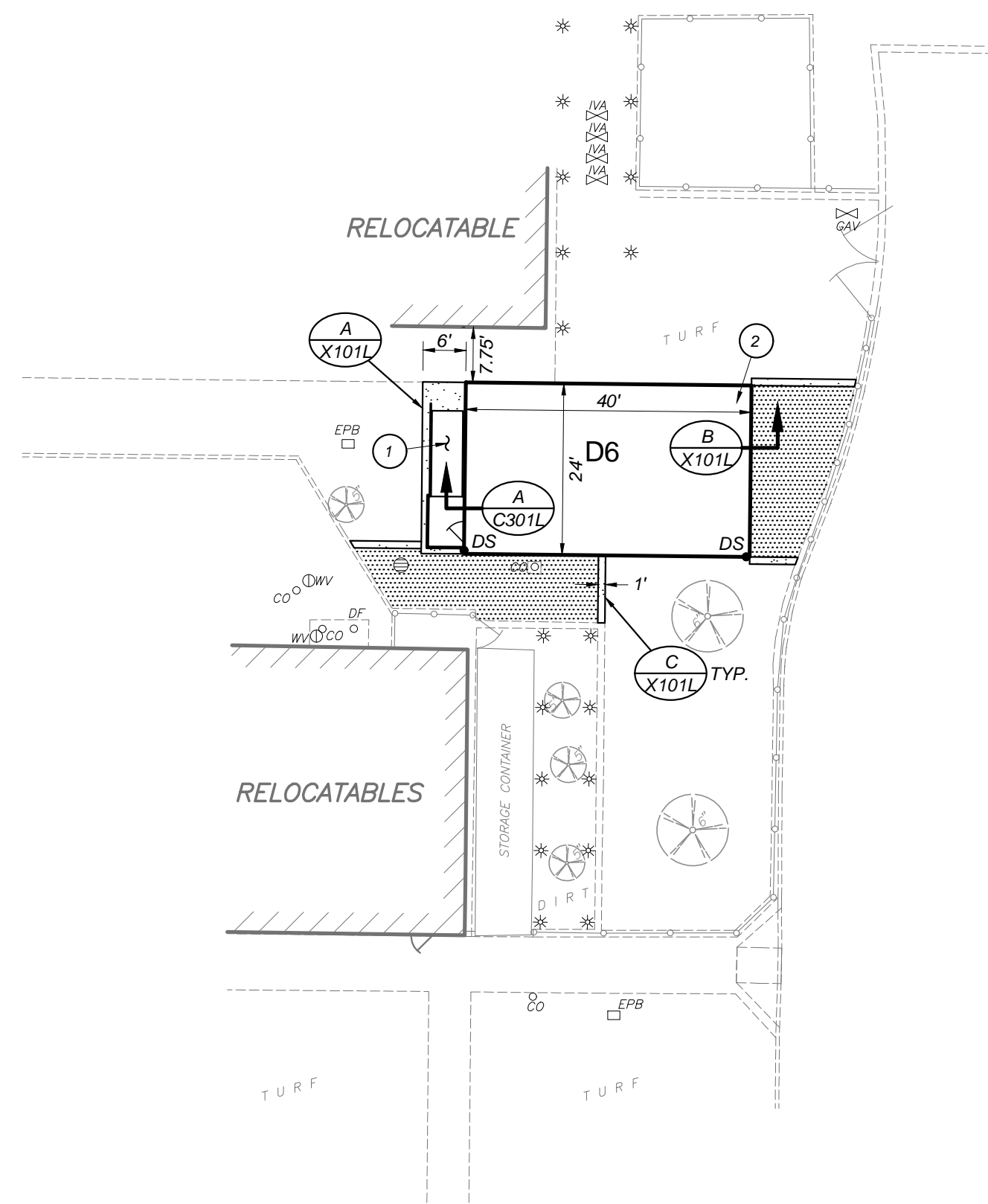
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Blair, Church & Flynn Consulting Engineers 455. Clovis Avenue, Suite 500 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500			PORTABLE ADDITION CLOVIS ONLINE CHARTER DEMOLITION PLAN	
04/28/2022 Date Signed:			CONST. DOCUMENTS	
			DR. BY: DG CH. BY: LRB DATE: 04/28/2022 SCALE AS NOTED	
			C201L	

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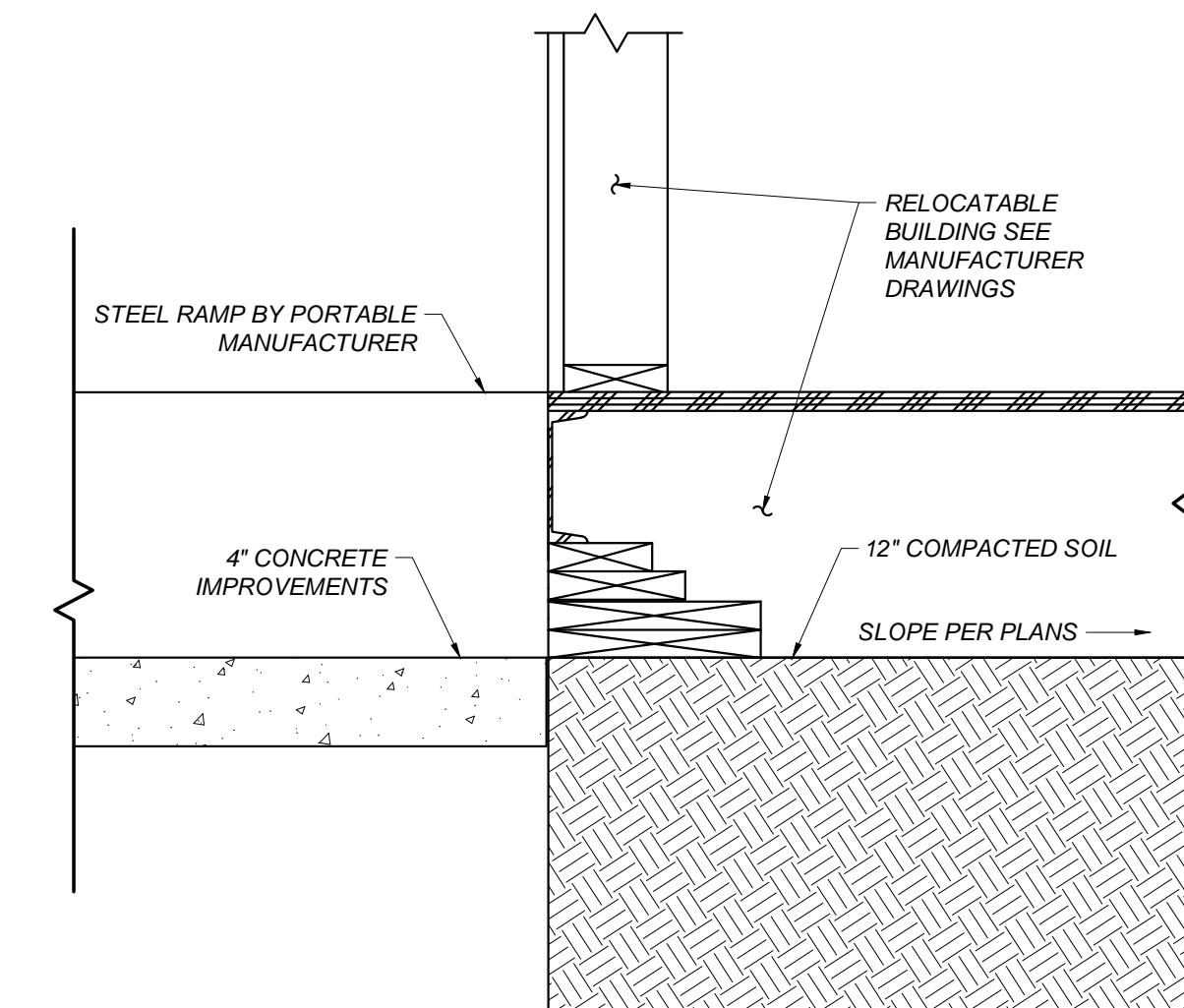
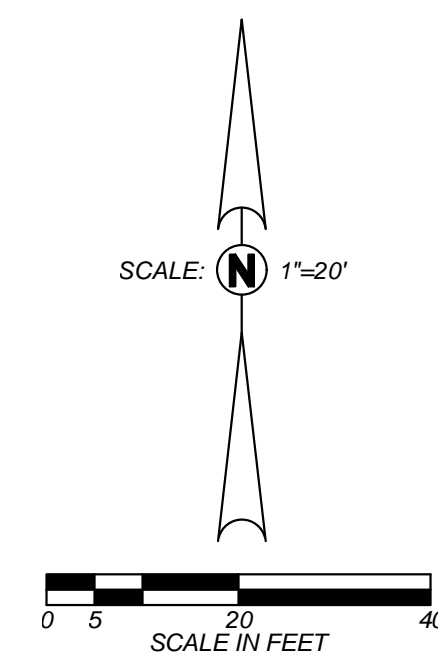
**SITE LEGEND:**

- [Symbol] LIMITS OF CONCRETE IMPROVEMENTS
- [Symbol] WOOD MULCH, SEE PLANTING PLANS
- [Symbol] DOWNSPOUT, SEE PORTABLE PLANS
- DS ACCESS RAMP, SEE PORTABLE PLANS
- (1) REFER TO DSA APP. NO. 04-119396 FOR FOOTING
- (2)

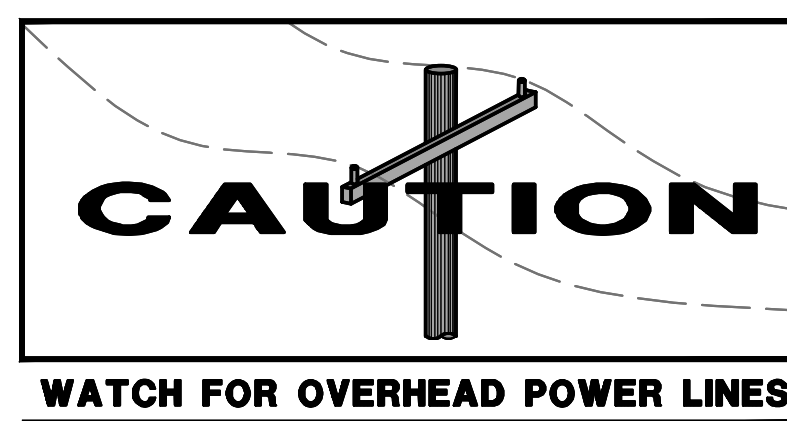
**GENERAL SITE NOTES:**

1. ALL CONCRETE MOWSTRIPS, RAMPS AND SIDEWALKS SHALL HAVE WEAKENED PLANE JOINTS AT 10 FEET MAXIMUM ON CENTER AND EXPANSION JOINTS AT 30 FEET MAXIMUM ON CENTER PER DETAIL [A X101L]
2. NO CONCRETE MAY BE POURED UNTIL THE FORMS HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT INSPECTOR.
3. ALL BURIED METALLIC OBJECTS SHALL HAVE A PROTECTIVE COATING OR BE WRAPPED WITH APPROVED PROTECTIVE WRAP.
4. ADJUST EXISTING SPRINKLER HEADS AND LATERAL LINES AS REQUIRED BY NEW IMPROVEMENTS, OR AS SHOWN ON THE IRRIGATION PLANS.
5. 2 WORKING DAYS BEFORE COMMENCING EXCAVATION OPERATIONS WITHIN THE STREET RIGHT-OF-WAY AND/OR UTILITY EASEMENTS, ALL EXISTING UNDERGROUND FACILITIES SHALL HAVE BEEN LOCATED BY UNDERGROUND SERVICES ALERT (USA), CALL 1-800-642-2444
6. ANY SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR RESET BY A PERSON LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA. REPLACEMENT TO BE AT CONTRACTOR'S SOLE EXPENSE.

DAVID E. COOK WAY



**A CROSS SECTION**  
 C301L NOT TO SCALE

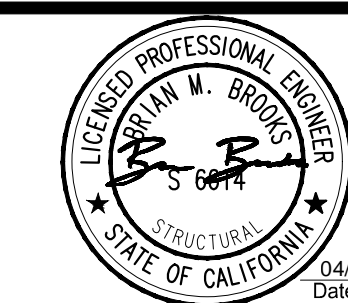


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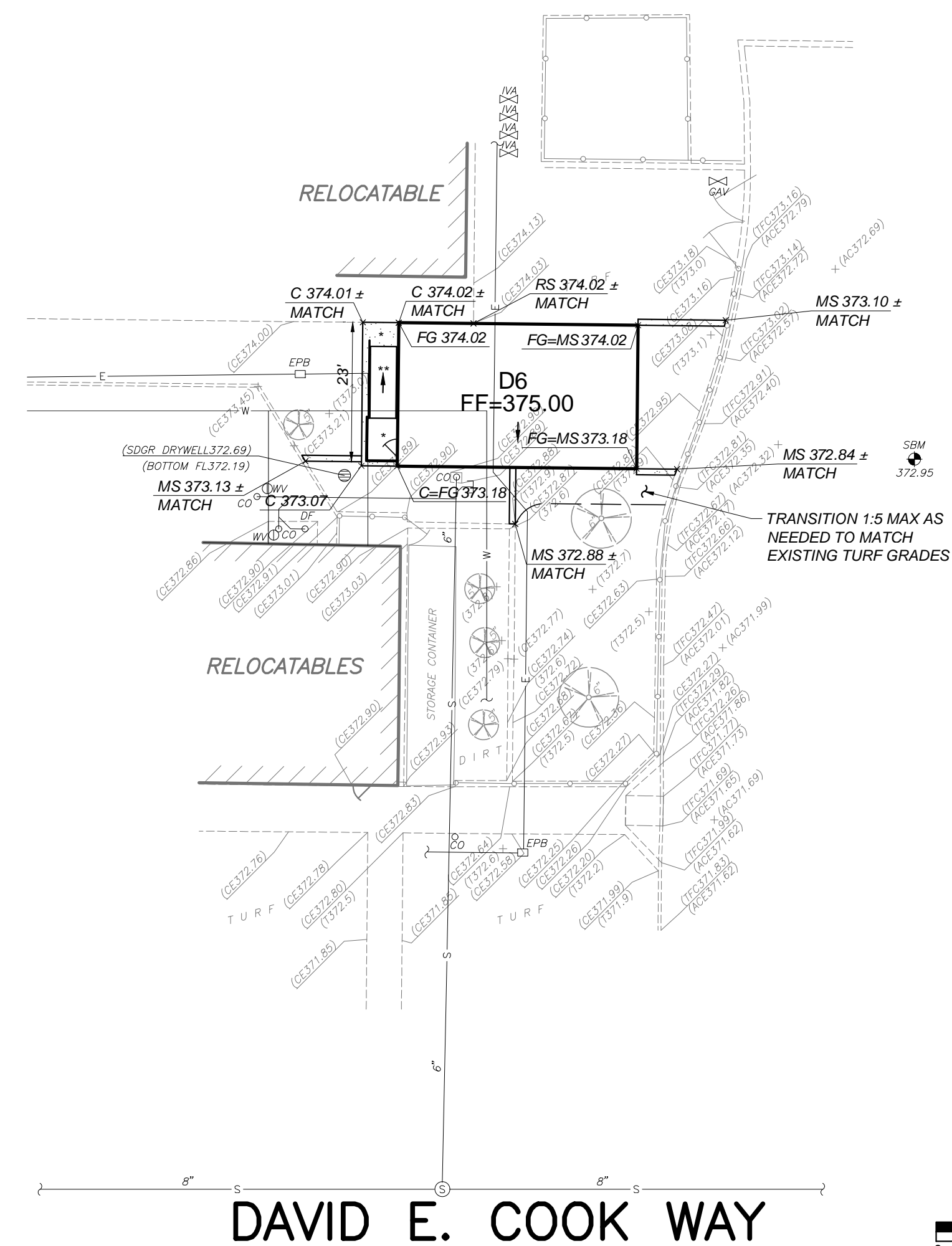
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 451 Clovis Avenue, Suite 500  
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	PORTABLE ADDITION CLOVIS ONLINE CHARTER SITE PLAN	CONST. DOCUMENTS
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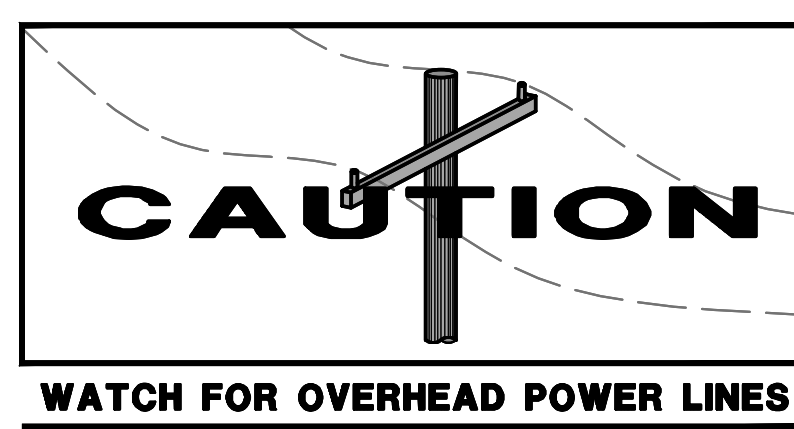


**GRADING AND DRAINAGE LEGEND:**

- C CONCRETE
- FF FINISHED FLOOR
- RA RAMP
- RS RAT SLAB
- (344.9) EXISTING ELEVATION
- 328.78 NEW FINISHED GRADE
- DIRECTION OF SURFACE DRAINAGE
- LEVEL LANDING NOT TO EXCEED 2% SLOPE IN ANY DIRECTION
- .. RAMP NOT TO EXCEED 8.33% IN LOGITUDINAL SLOPE NOR 2% IN CROSS-SLOPE

**GENERAL GRADING AND DRAINAGE NOTES:**

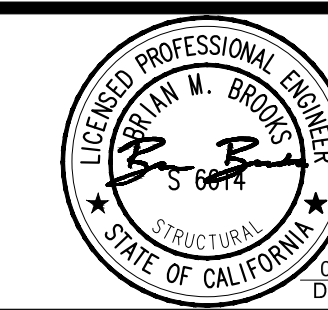
- THE REQUIREMENTS AND INFORMATION SET OUT BELOW ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT EXEMPT ALL PROJECT REQUIREMENTS DESCRIBED BY THE PROJECT PLANS AND SPECIFICATIONS AND/OR APPLICABLE LAWS, REGULATIONS AND/OR BUILDING CODES.
- CONSTRUCTION OF ALL PROJECT SITE IMPROVEMENTS SUBJECT TO ADA ACCESS COMPLIANCE, INCLUDING ACCESSIBLE PATH OF TRAVEL, CURB RETURNS, PARKING STALL(S) AND UNLOADING AREAS, BARRIER FREE AMENITIES AND/OR OTHER APPLICABLE SITE IMPROVEMENTS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT, CALIFORNIA TITLE 24, THE CALIFORNIA BUILDING CODE, CURRENT EDITION(S).
  - CONTRACTOR SHALL FIELD VERIFY ALL GRADES AND SLOPES PRIOR TO THE PLACEMENT OF CONCRETE AND/OR PAVEMENT FOR CONFORMANCE WITH ADA ACCESS COMPLIANCE REQUIREMENTS. EXAMPLES OF MINIMUM AND MAXIMUM LIMITS RELATED TO ADA ACCESS COMPLIANCE INCLUDE, BUT ARE NOT LIMITED TO:
    - ACCESSIBLE PATH OF TRAVEL CROSS-SLOPE SHALL NOT EXCEED 2%
    - ACCESSIBLE PATH OF TRAVEL LONGITUDINAL SLOPES SHALL NOT EXCEED 5%
    - RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 8.33%
    - ACCESSIBLE WALKS SHALL NOT HAVE LESS THAN 48 INCHES IN UNOBSTRUCTED WIDTH
    - ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION
    - LANDINGS AT THE TOP AND BOTTOM OF ACCESSIBLE RAMPS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION
    - GUTTERS AND ROAD SURFACES DIRECTLY ADJACENT TO AND WITHIN 2 FEET OF A CURB RAMP SHALL HAVE A COUNTER SLOPE NOT TO EXCEED 5%
  - CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IDENTIFIED BY THE PROFESSIONAL ENGINEERING SEAL AND SIGNATURE ON THESE PLANS, OF ANY SITE CONDITION(S) AND/OR DESIGN INFORMATION THAT PREVENTS THE CONTRACTOR FROM COMPLYING WITH THE LAWS, REGULATIONS AND/OR BUILDING CODES GOVERNING ADA ACCESS COMPLIANCE.
  - GROUND SLOPES AWAY FROM BUILDING PADS IN LANDSCAPED OR DIRT AREAS SHALL BE NO LESS THAN 5% FOR AT LEAST TEN (10) FEET, OR AS OTHERWISE NOTED ON THE PLANS.
  - DRAINAGE SHALL NOT BE ALLOWED ONTO ADJACENT PROPERTY.
  - ALL FILL MATERIAL USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING OR STRUCTURE SHALL BE PLACED UNDER THE DIRECTION OF A LICENSED GEOTECHNICAL ENGINEER, AND IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS. A SOILS COMPACTION REPORT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AS REQUIRED BY THE PROJECT SPECIFICATIONS.
  - THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS REQUIRED BY THE PROJECT SPECIFICATIONS, AND BY GOVERNING PUBLIC AGENCIES.
  - THE CONTRACTOR SHALL IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AS REQUIRED BY THE PROJECT SPECIFICATIONS AND THE STATE WATER RESOURCES CONTROL BOARD'S CONSTRUCTION GENERAL PERMIT. IMPLEMENT BEST MANAGEMENT PRACTICES WITHIN PUBLIC RIGHT OF WAY PER LOCAL JURISDICTION REQUIREMENTS.
  - AS A FIRST ORDER OF WORK, THE CONTRACTOR SHALL POT HOLE THE EXISTING UTILITY LINES AT THE POINT OF CONNECTION TO VERIFY THE LOCATION, SIZE, PIPE MATERIAL AND ELEVATION SO THAT THE ENGINEER CAN MAKE ELEVATION AND/OR ALIGNMENT ADJUSTMENTS IF NECESSARY. SHOULD POT HOLLING DISCOVER ANY DISCREPANCIES, CONTACT THE ENGINEER AND OBTAIN WRITTEN DIRECTION BEFORE PROCEEDING.
  - ADJUST UTILITY LIDS WITHIN NEW CONSTRUCTION AREA TO FINISHED GRADE PER DETAIL (DX101). REPLACE ALL BROKEN LIDS WITH NEW. PROVIDE TRAFFIC RATED LIDS WITHIN VEHICLE LOADING AREAS.
  - MINIMUM SLOPE ON IMPERVIOUS SURFACES PERPENDICULAR TO ADJACENT STRUCTURE(S), WITHIN ADA PATH, SHALL BE 1% MINIMUM AND 2% MAXIMUM. WHERE DOOR AND GATE LANDINGS OCCUR THE CROSS SLOPE SHALL BE 2% MAXIMUM IN ALL DIRECTIONS



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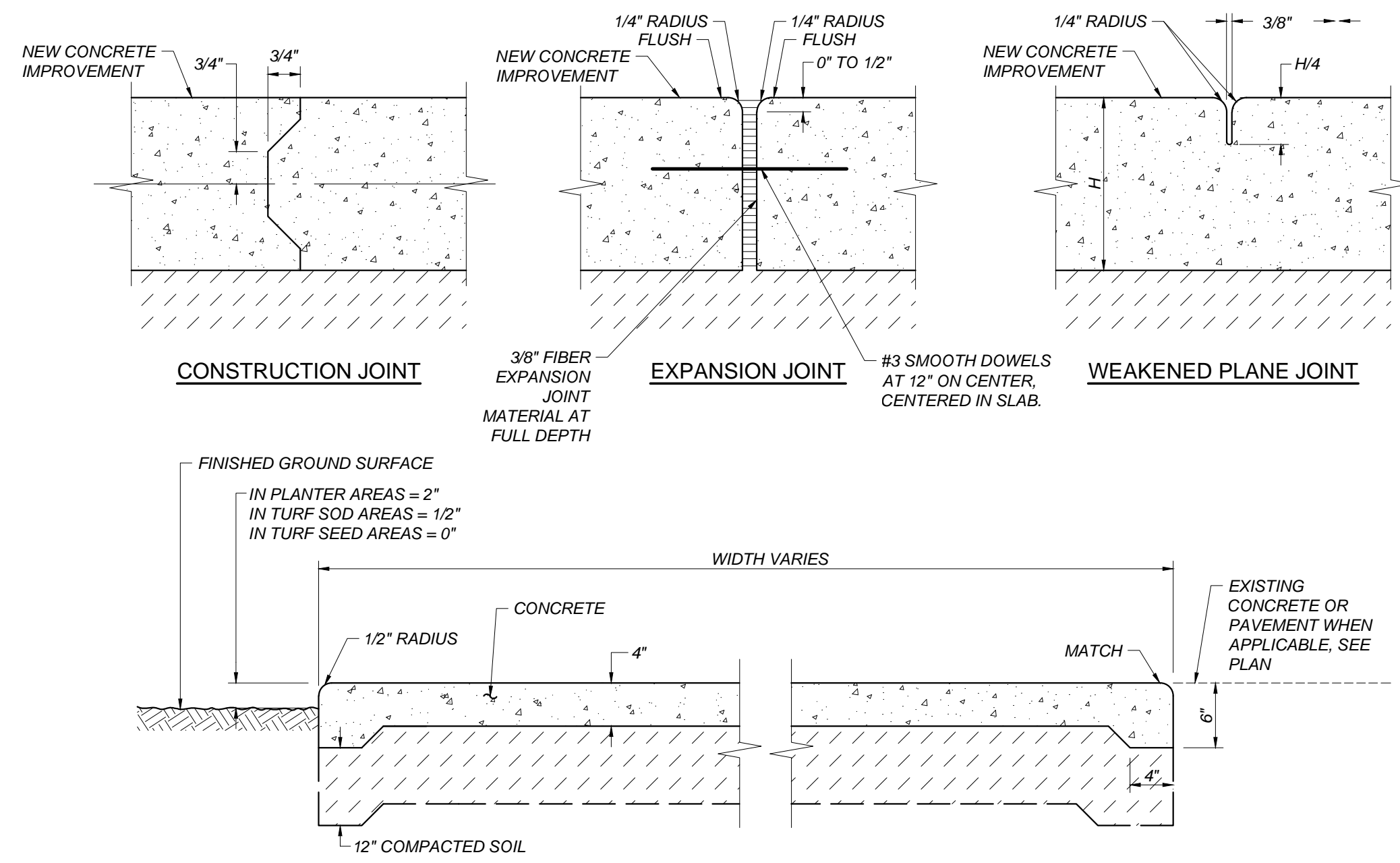
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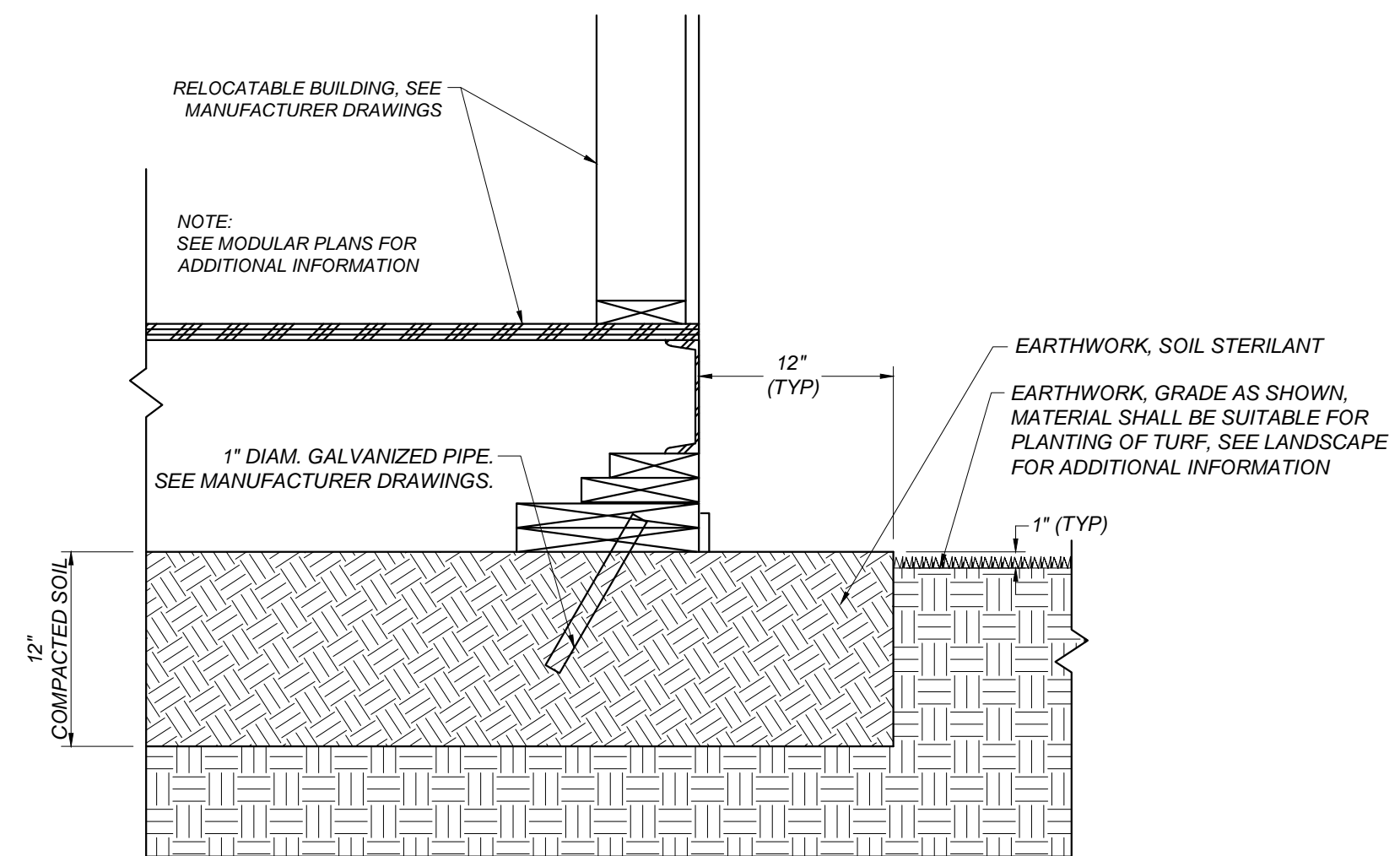
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<b>CLOVIS UNIFIED SCHOOL DISTRICT</b>		
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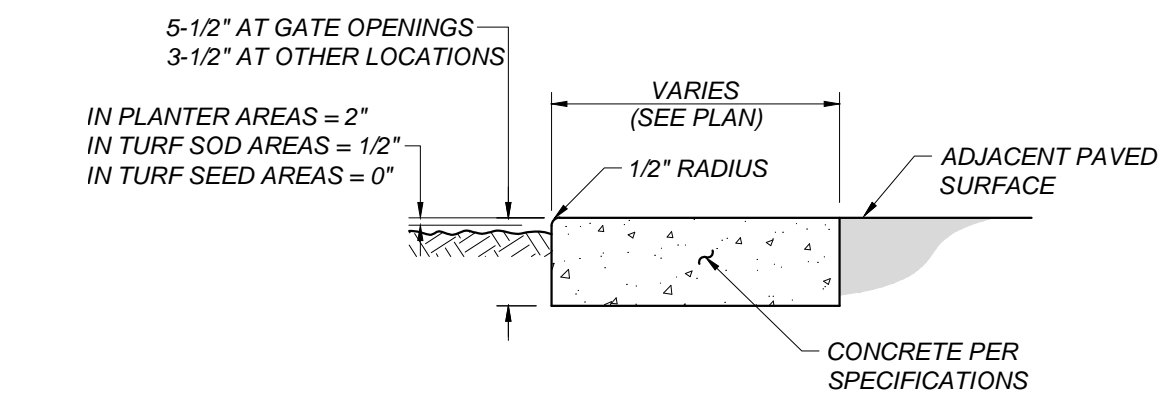




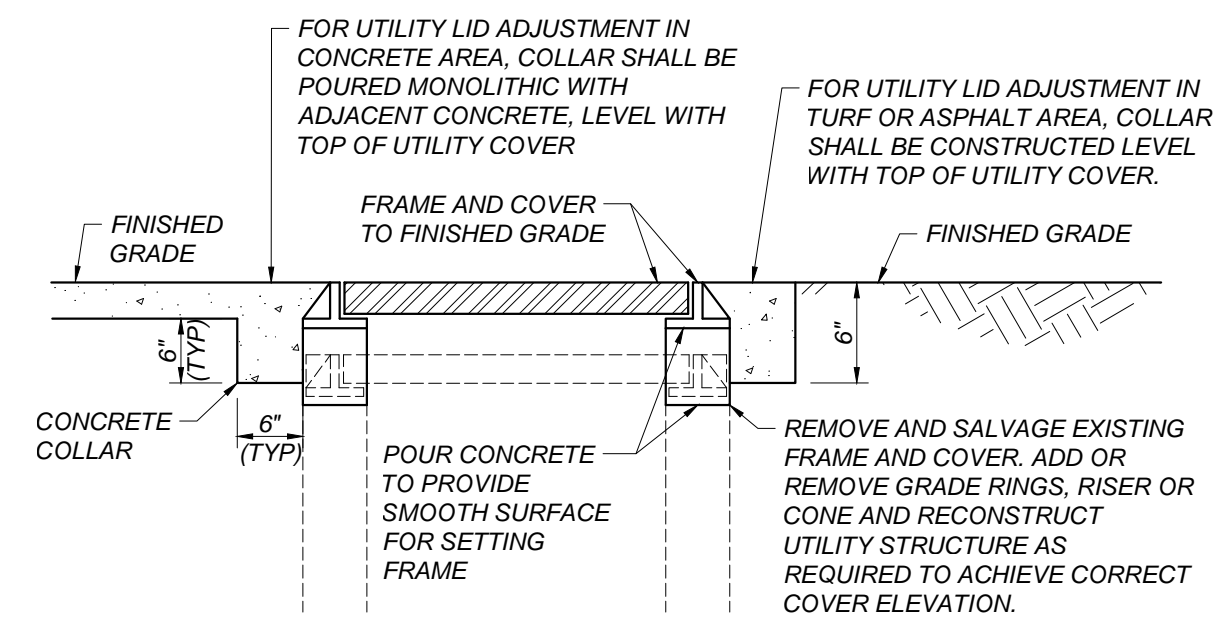
**A** REGULAR DUTY CONCRETE  
X101L NOT TO SCALE



**B** PERIMETER PIER  
X101L NOT TO SCALE



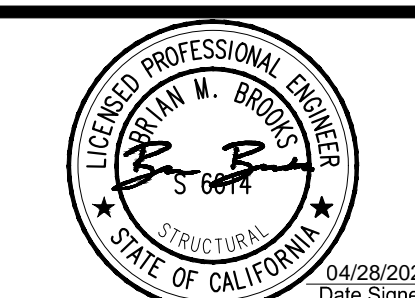
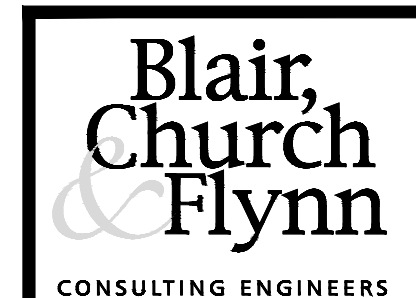
**C** CONCRETE MOWSTRIP  
X101L NOT TO SCALE



**D** ADJUST UTILITY LID  
X101L NOT TO SCALE



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**POINT OF CONNECTION**

WATER SERVICE SIZE/MAX FLOW: 4" / 200 GPM  
 WATER METER SIZE/75% MAX FLOW: CONTRACTOR SHALL VERIFY  
 MAXIMUM STATION FLOW: 28.0 GPM  
 IRRIGATION BACKFLOW SIZE: N/A  
 IRRIGATION WATER SOURCE: ON SITE WELL & CITY OF CLOVIS FOR BACK-UP  
 MINIMUM EXISTING STATIC PRESSURE HL: 68.55 PSI  
 SEE IRRIGATION GENERAL NOTE #3  
 MINIMUM OPERATING PRESSURE: 45 PSI SPRAYS  
 40 PSI ROTORS  
 30 PSI BUBBLERS

**CONTRACTOR SPECIAL IRRIGATION NOTES:**

- THE CONTRACTOR SHALL PERFORM AN OPERATIONAL ASSESSMENT OF THE EXISTING IRRIGATION SYSTEM WITHIN THE AREA OF WORK WITH THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL ENSURE THAT ALL EXISTING PLANTING SCHEDULED TO REMAIN SHALL CONTINUE TO BE IRRIGATED THROUGHOUT THE COURSE OF CONSTRUCTION OPERATIONS. ANY DAMAGE TO THE EXISTING IRRIGATION SYSTEM THAT IMPACTS EXISTING PLANTING TO REMAIN SHALL BE IMMEDIATELY REPAIRED TO THE OWNER'S SATISFACTION.
- PRIOR TO THE START OF ANY SHRUB, GROUND COVER, AND/OR TURFGRASS PLANTING, AN OPERATIONAL REVIEW OF THE IRRIGATION SYSTEM SHALL BE PERFORMED FOR PROPER COVERAGE AND SOIL MOISTURE DEPTH BY THE OWNER'S REPRESENTATIVE. ALL CORRECTIONS AND/OR ADJUSTMENTS SHALL BE COMPLETED AND VERIFIED BY THE OWNER'S REPRESENTATIVE BEFORE GROUND LEVEL PLANTING MAY COMMENCE.
- THE ORIGINAL IRRIGATION SYSTEM OBSERVATION LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET.
- THE AS-BUILT RECORD DRAWING SET AND OTHER CLOSE-OUT ITEMS SHALL BE SUBMITTED AND ACCEPTED PRIOR TO THE SCHEDULING OF A FINAL ACCEPTANCE REVIEW.
- UNLESS NOTED OTHERWISE, SALVAGE AND RETURN TO THE OWNER ALL IRRIGATION VALVES, HEADS AND OTHER EQUIPMENT COMPONENTS REMOVED AS PART OF THE WORK. SALVAGED COMPONENTS SHALL BE CLEAN AND IN WORKING CONDITION UNLESS NOTED AS NON-OPERATIONAL DURING THE OPERATIONAL ASSESSMENT.

**WATER CONSERVATION COMPLIANCE STATEMENT:**

I HAVE COMPLIED WITH THE CRITERIA OF THE LANDSCAPE WATER CONSERVATION ORDINANCE AND GUIDELINES, AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

*D. Briley*  
 DAVID W. BRILEY, R 2/2787

**GENERAL IRRIGATION NOTES:**

- ALL ITEMS IN THE LEGEND ARE TO BE FURNISHED AND INSTALLED, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL FURNISH THE ARTICLES, EQUIPMENT, MATERIALS OR PROCESSES SPECIFIED BY NAME. NO SUBSTITUTION WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE DESIGN ENGINEER. (ALL MATERIAL REQUIRED SHALL BE NEW AND OF THE BEST QUALITY AVAILABLE)
- THE DESIGN ENGINEER RESERVES THE RIGHT TO REJECT ANY MATERIAL OR WORK WHICH DOES NOT CONFORM TO THE CONTRACT PLANS AND SPECIFICATIONS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE DESIGN ENGINEER.
- PRIOR TO STARTING WORK, THE CONTRACTOR SHALL VERIFY THE EXISTING SYSTEM COMPONENTS' LOCATION, SIZES AND ROUTING FOR BACKFLOW PREVENTERS, CONTROLLERS, MAIN AND LATERAL PIPING, VALVES, SPRINKLER HEADS AND CONTROL WIRE, AND SHALL CONFIRM THEIR OPERATIONAL STATUS IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ALSO VERIFY THE AVAILABLE STATIC PRESSURE AT THE POINT-OF-CONNECTION. FAILURE TO NOTIFY THE OWNER'S REPRESENTATIVE BEFORE STARTING WORK OF ANY DEVIATION FROM THE INFORMATION SHOWN ON THE CONTRACT DOCUMENTS, OR NECESSARY REPAIRS TO THE EXISTING SYSTEM, SHALL MAKE THE CONTRACTOR RESPONSIBLE TO PROVIDE, AT HIS OWN EXPENSE, ANY CORRECTIVE WORK OR COMPONENTS NECESSARY FOR A FULLY FUNCTIONAL SYSTEM WITH FULL COVERAGE.
- THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND KEEP ANY EXISTING IRRIGATION SYSTEM SCHEDULED TO REMAIN OPERATIONAL AT ALL TIMES DURING THE COURSE OF THIS WORK. THE CONTRACTOR SHALL REPLACE ANY PLANTS DEAD OR DISTRESSED DUE TO THE INTERRUPTION OF EXISTING IRRIGATION SCHEDULES AND SHALL PERFORM ALL WORK NECESSARY TO MAINTAIN THE EXISTING SYSTEM'S OPERATIONAL.
- THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND PROTECT ALL EXISTING UTILITIES. UTILITIES SHOWN ARE FOR THE CONTRACTOR'S AWARENESS AND NO SURVEY HAS BEEN COMPLETE TO VERIFY THE ACCURACY OF THE UTILITIES SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGED UTILITIES CAUSED BY CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL DIMENSIONS SHOWN AND TO ADJUST SAID DIMENSIONS TO FIT SITE CONDITIONS AND ACTUAL EQUIPMENT INSTALLED.
- THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE IRRIGATION FACILITIES AS INDICATED ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.
- THE IRRIGATION PLAN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND HEADS SHALL BE LOCATED IN PLANTING AREAS WHENEVER POSSIBLE.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE SAFETY MEASURES TO WARN AND PROTECT THE PUBLIC, OTHER SITE CONTRACTORS AND HIS WORKERS FROM POSSIBLE INJURY DUE TO HIS CONSTRUCTION EQUIPMENT AND OPERATIONS.
- DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL HIS WORK, AND PLAN HIS WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO INSTALL THE PROPOSED FACILITIES AND ACCOMMODATE THE SITE CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE DONE TO PROVIDE A COMPLETE AND OPERATIONAL IRRIGATION SYSTEM. ALL WORK TO BE DONE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, LOCAL CODES AND ORDINANCES.
- VALVES SHALL BE LOCATED IN SHRUB/GROUND COVER AREAS INSTEAD OF IN TURFGRASS AREAS WHENEVER POSSIBLE. VALVES IN ATHLETIC SPORTS FIELDS SHALL BE LOCATED OUTSIDE OF THE FIELD-OF-PLAY TO THE GREATEST EXTENT POSSIBLE.
- THE CONTRACTOR SHALL REPLACE ANY EXISTING PLANTS SCHEDULED TO REMAIN (SEE LANDSCAPE PLANS) THAT ARE DAMAGED BY THIS WORK WITH NEW PLANTS OF THE SAME SPECIES/VARIETY AND SIZE AS THE ORIGINAL.
- ANY EXISTING TURFGRASS REMOVED FOR THIS WORK SHALL BE REPLANTED IF VISIBLE, OR NEW SOD OF THE SAME SPECIES/VARIETY INSTALLED. THE UPPER 6 INCHES OF THE COMPACTED TRENCH BACKFILL SHALL BE CONDITIONED PER LANDSCAPE SPECIFICATIONS PRIOR TO SOD INSTALLATION. THE NEW SOD SURFACE SHALL BE FLUSH TO THE ADJACENT TURFGRASS WITHOUT HUMPS OR DEPRESSIONS.
- INSTALL SLEEVES UNDER ALL ASPHALT/CONCRETE IMPROVEMENTS. SLEEVES SHALL BE PVC SCH. 40 PVC OR SDR 35 AND TWICE THE DIAMETER OF THE PIPE UNLESS OTHERWISE NOTED. CONTROL WIRING SHALL BE SLEEVED IN 2" SCH 40 PVC UNLESS OTHERWISE NOTED. MINIMUM DEPTH OF SLEEVES UNDER ALL ASPHALT/CONCRETE IMPROVEMENTS IS 18" BELOW SUBGRADE OR 24" BELOW FINISHED GRADE, WHICHEVER IS GREATER.
- CONTRACTOR SHALL SAWCUT TO EXISTING JOINTS, REMOVE AND REPLACE SURFACING (CONCRETE, ASPHALT) AS NECESSARY TO INSTALL THE IRRIGATION SYSTEM.
- THE CONTRACTOR SHALL PROVIDE AND KEEP AN UP-TO-DATE "RECORD DRAWING" SHOWING ALL CHANGES TO THE ORIGINAL DRAWINGS AND EXACT LOCATIONS OF THE FACILITIES INSTALLED. BEFORE FINAL INSPECTION, THE CONTRACTOR SHALL FURNISH MARKED "RECORD DRAWINGS" TO THE INSPECTOR.
- THE CONTRACTOR SHALL PROVIDE ADJUSTMENT OF NOZZLE ARC AND RADIIUS, INCLUDING ANY ALTERNATE NOZZLE TYPES, NECESSARY TO PROVIDE COMPLETE COVERAGE, TO SUIT ACTUAL SITE CONDITIONS, AND TO MINIMIZE OVERSPRAY ONTO HARDSCAPE, PAVEMENT AND/OR STRUCTURES.
- CONCRETE ANCHORS OR THRUST BLOCKS SHALL BE PROVIDED ON ALL MAIN LINE PIPING. THEY ARE TO BE LOCATED AT ALL ABRUPT CHANGES IN PIPELINE GRADE, CHANGES IN HORIZONTAL ALIGNMENT, REDUCTION IN PIPE SIZES, END OF LINE AND IN-LINE VALVES TO ABSORB ANY AXIAL THRUST OF THE PIPE. THE PIPE MANUFACTURER'S RECOMMENDATIONS FOR THRUST CONTROL SHALL BE FOLLOWED. THRUST BLOCKS MUST BE FORMED AGAINST UNDISTURBED EARTH.
- ALL MAIN LINE AND LATERAL LINE PIPES UNDER PAVEMENT SHALL BE PRESSURE TESTED WITH THE VALVES INSTALLED. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT NEEDED. IF ANY LEAKS DEVELOP, THE REPAIRS ARE TO BE MADE AND THE TEST REPEATED UNTIL THE SYSTEM IS PROVEN WATER TIGHT. THE CONTRACTOR IS TO CENTER LOAD THE PIPE AND LEAVE ALL JOINTS EXPOSED FOR INSPECTION. THE PRESSURE TEST SHALL BE OBSERVED AND APPROVED BY THE OWNER'S REPRESENTATIVE. WHEN THE PIPE IS PROVEN WATER TIGHT AND ONLY THEN MAY THE LINE BE BACKFILLED.
- WIRED CONNECTIONS BETWEEN THE CONTROLLER AND REMOTE CONTROL VALVES SHALL BE MADE WITH ONE CONTINUOUS DIRECT BURIAL WIRE RUN. A VALVE BOX MUST BE PROVIDED AT THE CONTRACTOR'S EXPENSE AT ALL UNDERGROUND SPLICES.
- ONLY TEFLON TAPE OR AN APPROVED TEFLON PASTE MAY BE USED AS THE SEALING MATERIAL TO MAKE ALL THREADED CONNECTIONS. A MINIMUM OF TWO (2) WRAPS IN THE DIRECTION OF THE THREADS TO BE USED FOR TAPE. NO OTHER PIPE JOINT MATERIAL WILL BE ALLOWED WITHOUT THE WRITTEN AUTHORIZATION FROM THE DESIGN ENGINEER.
- THE CONTRACTOR SHALL PROVIDE TWO (2) INDIVIDUALLY BOUND SETS OF OPERATION AND MAINTENANCE MANUALS. THE MANUAL SHALL CONTAIN THE FOLLOWING INFORMATION:  
 A. CONTRACTOR'S ADDRESS AND PHONE NUMBER.  
 B. DURATION OF GUARANTEE PERIOD (ONE YEAR AFTER FINAL ACCEPTANCE).  
 C. NAMES, ADDRESSES AND PHONE NUMBERS OF LOCAL MANUFACTURER REPRESENTATIVES.  
 D. COMPLETE SET OF MANUFACTURER'S LITERATURE AND SPECIFICATIONS.  
 E. COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL MAJOR EQUIPMENT.  
 F. ISSUE A "CERTIFICATE OF CONSTRUCTION COMPLIANCE" WHICH STATES THAT ALL WORK DONE AND MATERIALS AND EQUIPMENT USED ARE IN CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND ALL AUTHORIZED REVISIONS.  
 G. INITIAL ELECTRICAL DATA ON EACH VALVE:  
 (1) OHMMIS READING FOR EACH VALVE TAKEN AT THE CONTROLLER.  
 (2) VOLTAGE READING FOR EACH VALVE TAKEN BOTH AT THE CONTROLLER AND AT THE VALVE.
- THE CONTRACTOR SHALL PROVIDE TWO SETS OF CONTROLLER CHARTS. THE CHARTS TO BE A REDUCED DRAWING OF THE ACTUAL PLANS. THE CHARTS SHALL BE COLORED WITH A DIFFERENT COLOR FOR EACH IRRIGATION CIRCUIT. THE CHARTS SHALL BE COVERED IN A WATER TIGHT ENVELOPE.
- IRRIGATION LINE TRENCHING AND PIPE INSTALLATION LOCATED WITHIN THE CANOPY DRIP LINE OF EXISTING TREES SHALL BE PERFORMED BY HAND OR BY AIR SPADE WITHOUT CUTTING OR DAMAGING EXISTING ROOTS GREATER THAN ONE INCH IN DIAMETER. SEE EXISTING LANDSCAPE PROTECTION SECTION FOR ADDITIONAL REQUIREMENTS.
- REPLACE ALL DAMAGED EXISTING VALVE BOXES AND/OR LIDS WITHIN THE AREA OF WORK TO FINISH GRADE AS NECESSARY TO COMPLY WITH THE VALVE BOX DETAIL.

**CERTIFICATE OF COMPLETION REQUIREMENTS:**

PER MWELD SECTION 492.9, UPON COMPLETION OF THE LANDSCAPE PLANTING AND IRRIGATION SYSTEM, AND AS A CONDITION OF FINAL ACCEPTANCE AND/OR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, THE LICENSED LANDSCAPE CONTRACTOR SHALL SUBMIT TO THE CITY AND TO THE OWNER THE FOLLOWING ITEMS IN A FORM ACCEPTABLE TO THE CITY:  
 - PROJECT INFORMATION AND CONTACT INFORMATION FOR THE OWNER AND APPLICANT.  
 - A CERTIFICATION THAT THE INSTALLATION COMPLIES WITH THE APPROVED DOCUMENTATION PACKAGE.  
 - IRRIGATION SCHEDULING PARAMETERS USED IN PROGRAMMING THE CONTROLLER.  
 - A PLANTING AND IRRIGATION MAINTENANCE SCHEDULE.  
 - AN IRRIGATION AUDIT REPORT PREPARED BY A CERTIFIED LANDSCAPE IRRIGATION AUDITOR.  
 - A HORTICULTURAL SOILS ANALYSIS REPORT AND RECOMMENDATIONS IF NOT SUBMITTED EARLIER WITH THE LANDSCAPE DOCUMENTATION PACKAGE.  
 - DOCUMENTATION IN THE FORM OF MATERIAL RECEIPTS, INVOICES AND/OR OTHER DOCUMENTS THAT THE RECOMMENDATIONS OF THE HORTICULTURAL SOILS ANALYSIS REPORT AS MODIFIED AND APPROVED BY THE LANDSCAPE ARCHITECT HAVE BEEN IMPLEMENTED AND INSTALLED.

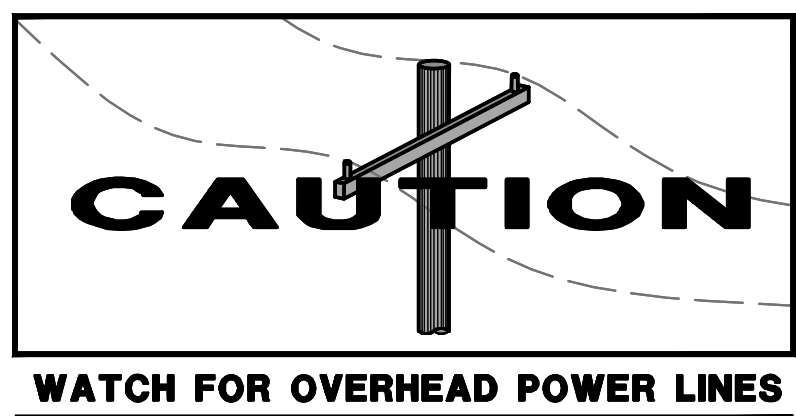
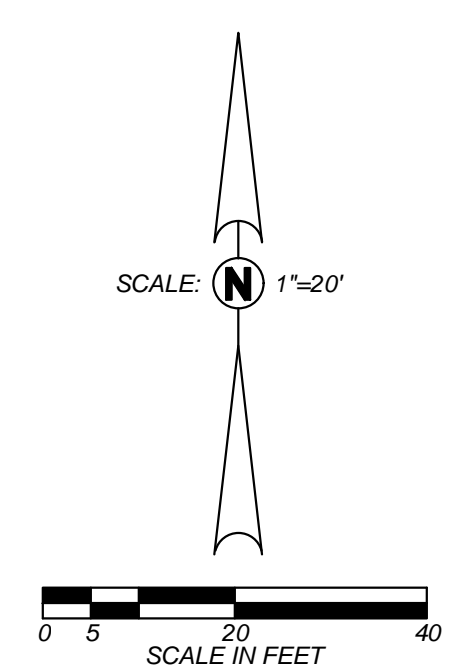
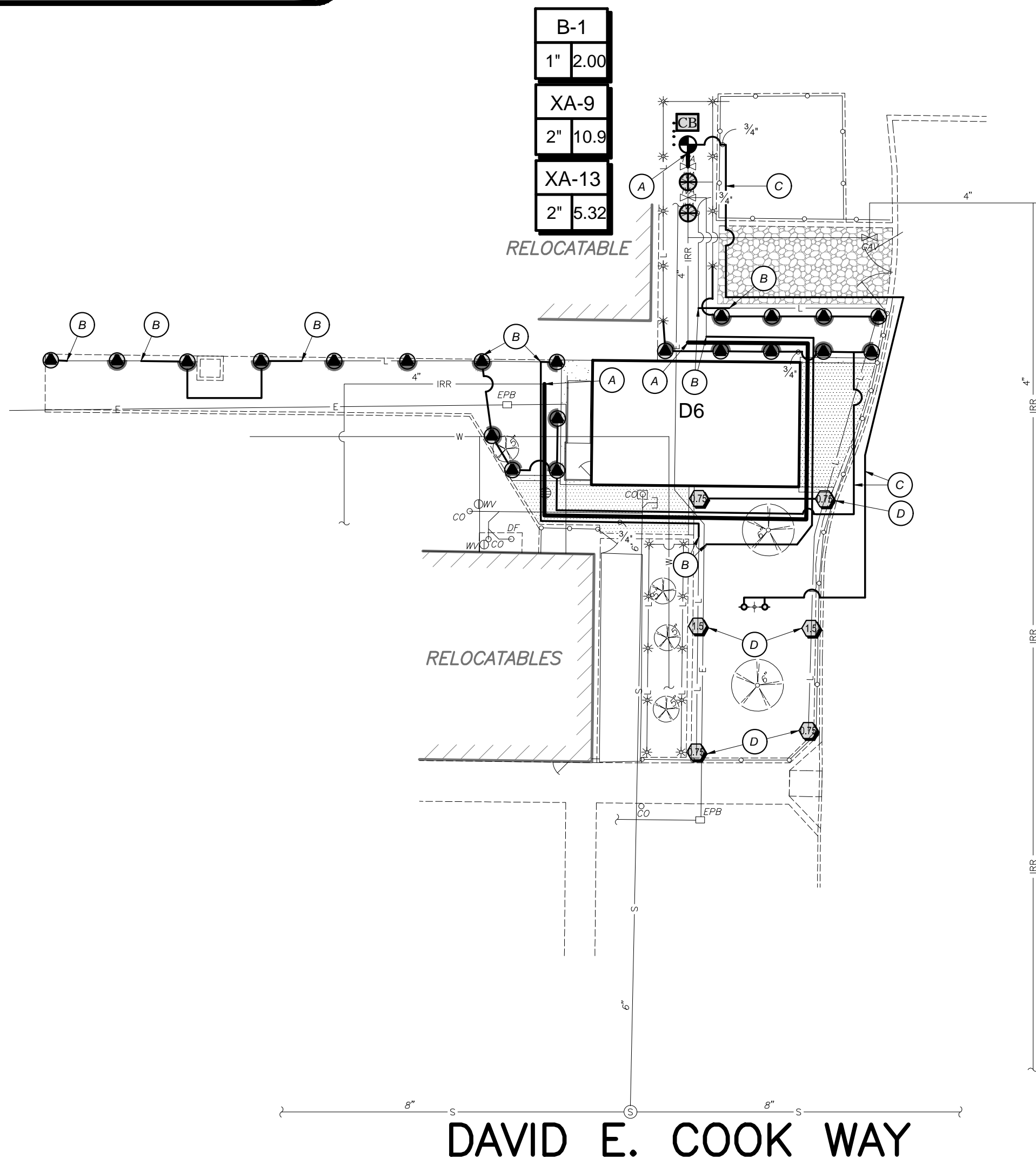
**IRRIGATION SYSTEM BID ALLOWANCE:**

CONTRACTOR SHALL INCLUDE A BID ALLOWANCE IN THE AMOUNT OF \$1,000 FOR THE REPLACEMENT OF EXISTING OR THE INSTALLATION OF NEW SPRINKLER HEADS, VALVES, PIPING AND OTHER EQUIPMENT AND ACCESSORIES NECESSARY FOR THE PROPER OPERATION OF THE EXISTING SYSTEM WHERE NOT SPECIFICALLY SHOWN ON THE DRAWINGS FOR REPLACEMENT OR NEW INSTALLATION.

**IRRIGATION SCHEDULE**

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	ARC	PSI	GPM	RADIUS	DETAIL
	HUNTER MP1000 ON RAIN BIRD RD04-S-P45-F BODY	90-210	45		14'	HL102L
	TREE BUBBLER ROOT WATERING SYSTEM 1404 RAIN BIRD RWS-M-6-C-1402	360	30	0.5	0'	JL102L
SYMBOL	MANUFACTURER/MODEL	PSI	GPM	RADIUS	DETAIL	
	HUNTER I-20-04-SS-PRB-SR		40	0.68	24'	HL102L
	HUNTER I-20-04-SS-PRB-SR		40	1.30	24'	HL102L
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL				
	EXISTING REMOTE CONTROL VALVE IRRITROL 100P-G	G/L102L				
	HUNTER ICG-V	G/L102L				
	HUNTER NODE-200 2-STATION CONTROLLER, OUTDOOR, BATTERY POWERED. DC LATCHING SOLENOID ORDERED SEPARATELY.					
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 SOLVENT WELD, SIZE AS NOTED	C/L102L				
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 RUBBER GASKETED, SIZE AS NOTED	A/L102L				
	CONTROL WIRE PLUS ONE (1) COMMON WIRE	E/L102L				

- VALVE NUMBER
- VALVE FLOW (GPM)
- VALVE SIZE
- PROPOSED TREE, SEE PLANTING PLAN ON SHEET L201L FOR VARIETY AND SIZE
- CONNECT NEW MAIN LINE TO EXISTING MAIN LINE
- CONNECT NEW LATERAL LINE TO EXISTING LATERAL LINE
- PIPE SHOWN OUTSIDE OF PLANTER FOR CLARITY. INSTALL PIPE WITHIN PLANTER. SEE GENERAL IRRIGATION NOTE #8
- INSTALL NEW SPRINKLER ON EXISTING LATERAL LINE
- PROTECT HEADS FOR NEW HARDSCAPE. ADJUST HEADS/NOZZLES FOR NEW IMPROVEMENTS. SEE GENERAL IRRIGATION NOTE #17



SEE SHEET L102L FOR DETAILS AND MWELD CALCS

ITEM NO.	WORK ITEM DESCRIPTION	REVIEWED & ACCEPTED BY OWNER'S REP OR LAND ARCH		
		PRINT NAME	SIGNATURE	DATE
IR-1	EXISTING SYSTEM OPERATION & PRESSURE CHECK			
IR-2	PIPING/WIRE SLEEVES UNDER PAVEMENT			
IR-3	MAIN LINE INSTALLATION & PRESSURE TEST	N/A	N/A	
IR-4	VALVE INSTALLATIONS			
IR-5	IRRIGATION COVERAGE PRIOR TO PLANTING			
IR-6	CONTROL EQUIPMENT INSTALLATION	N/A	N/A	
IR-7	BOOSTER PUMP INSTALLATION & START-UP (MANUF.)	N/A	N/A	
IR-8	FINAL SYSTEM OPERATION REVIEW			

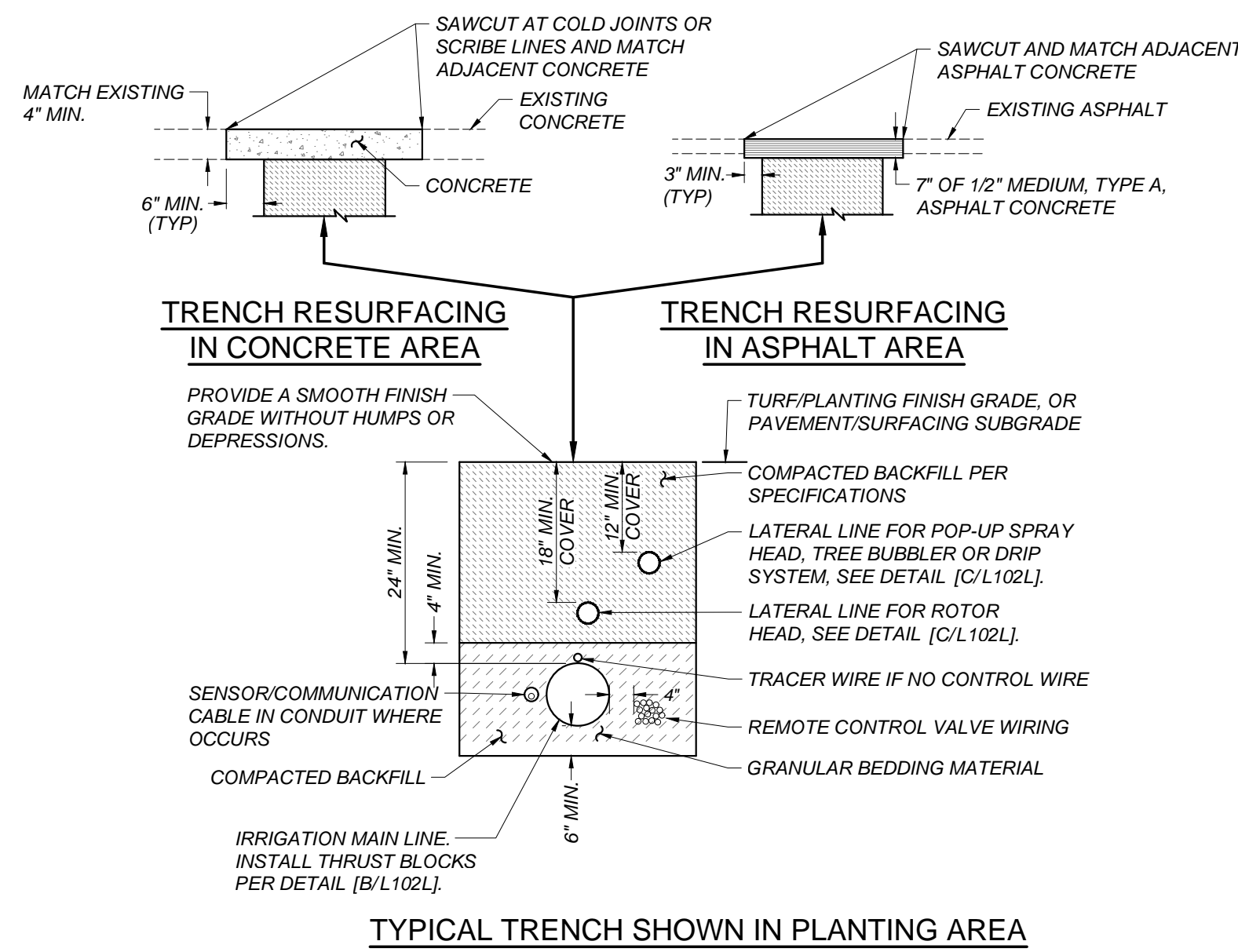
NOTE: THE ORIGINAL VERSION OF THIS LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET. WORK ITEMS MAY NOT BE REVIEWED IF PRIOR WORK ITEMS HAVE NOT BEEN ACCEPTED.

CONSULTANT  
 Blair, Church & Flynn  
 Consulting Engineers  
 455 Clovis Avenue,  
 Suite 200  
 Clovis, California 93612  
 Tel (559) 326-1400  
 Fax (559) 326-1500

REF. & REV.  
 CLOVIS UNIFIED SCHOOL DISTRICT  
 PORTABLE ADDITION  
 CLOVIS ONLINE CHARTER  
 IRRIGATION PLAN

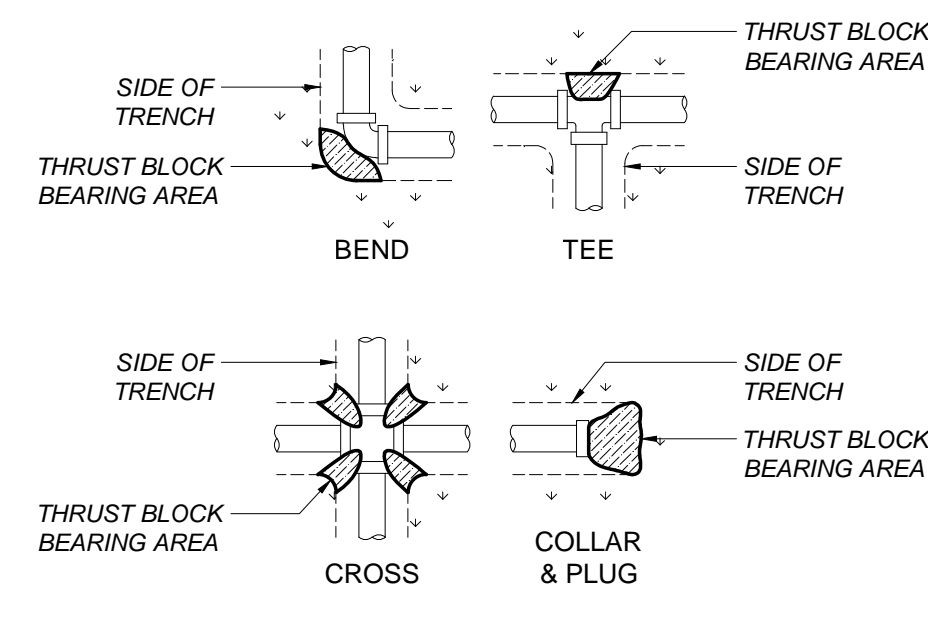
CONST. DOCUMENTS  
 DR. BY: GB  
 CH. BY: DWB  
 DATE: 04/28/2022  
 SCALE AS NOTED  
**L101L**





TYPICAL TRENCH SHOWN IN PLANTING AREA

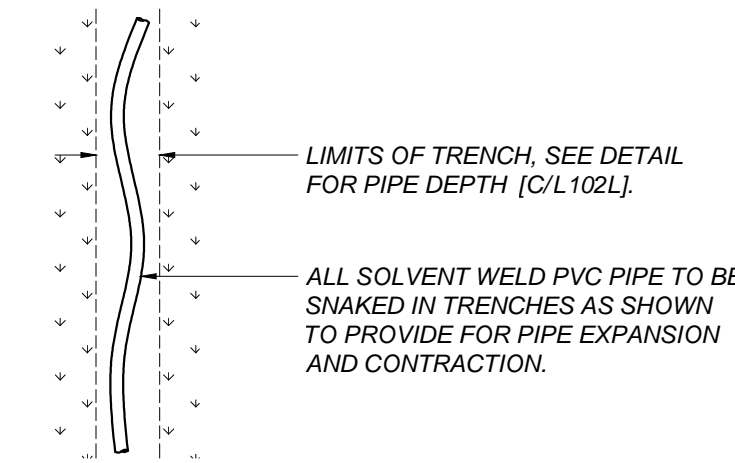
**A** IRRIGATION TRENCH BACKFILL  
L102L NOT TO SCALE



NOTE: CONCRETE PER SPECIFICATIONS. THRUST BLOCKS NOT REQUIRED WITH LESS THAN 2" MAIN LINE

PIPE DIAMETER	4"	6"	8"	10"	12"
CROSS, TEE, 90° BEND, PLUG, FIRE HYDRANT	1	3	5	8	11
45° BEND	1	2	3	4	6
22-1/2° BEND	0.5	1	2	2	3
11-1/4° BEND	0	0	1	1	2
GATE VALVE (IN-LINE)	0	1	2.5	4	9

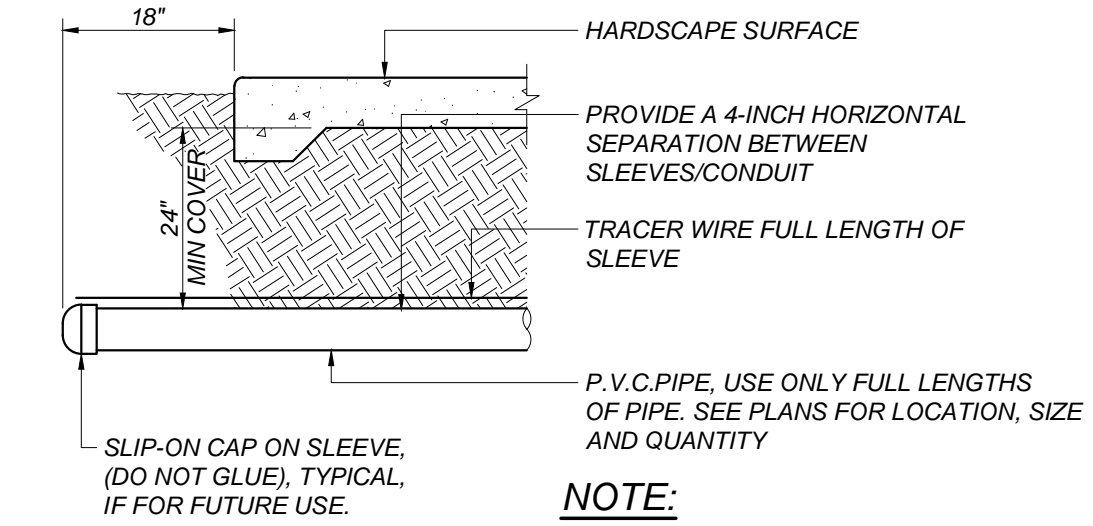
**B** CONCRETE THRUST BLOCKS  
L102L NOT TO SCALE



**C** SOLVENT WELD PIPE  
L102L NOT TO SCALE

CONDUIT/SLEEVE FOR CONTROL WIRE	
CONDUIT/SLEEVE SIZE	QTY. 14 GA. WIRE
1"	8 OR LESS
1-1/4"	15
1-1/2"	20
2"	32
2-1/2"	45
3"	70
4"	120

NOTE: SLEEVE FOR PIPE IS 2X THE PIPE DIAMETER



**D** IRRIGATION SLEEVE/CONDUIT  
L102L NOT TO SCALE

**WATER EFFICIENT LANDSCAPE WORKSHEET**  
Educational - DSA PR 15-03

Project: Portable Additions at Clovis On-Line School  
Location: Clovis, Fresno County  
ETo Reference (MWEL0-Apdx. A): Clovis

**MAWA = MAXIMUM APPLIED WATER ALLOWANCE (1,000 GALLONS)**

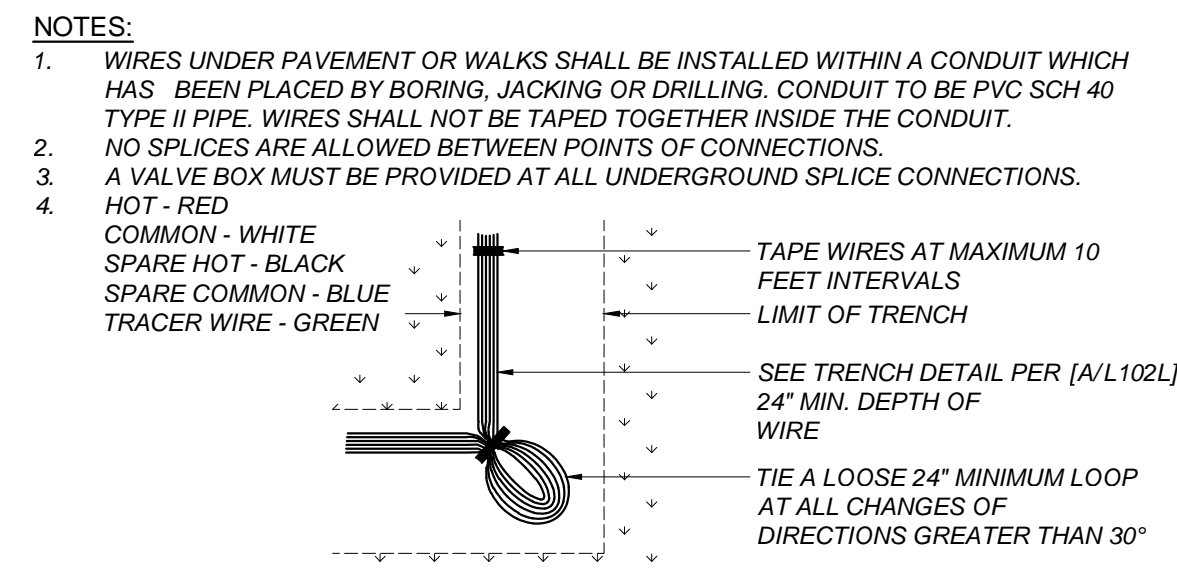
TOTAL NEW BUILDING FOOTPRINT	960 SF	(1,600 sf is threshold for inclusion)
75% OF BLDG. SF REQ'D LANDSCAPE	720 SF	
EXIST. IRRIGATION REMOVED FROM SERVICE	1,732 SF	
REGULAR LANDSCAPE AREA	0 SF	(landscape area >500 sf)
SPECIAL LANDSCAPE AREA (SLA)	199 SF	
TOTAL PROPOSED LANDSCAPE AREA (LA)	199 SF	
TOTAL OVER (UNDER) REQUIRED AREA	1,211 SF	

NORMAL YEAR REFERENCE	ANNUAL
EVAPOTRANSPIRATION (Eto)	51.4
EFFECTIVE PRECIPITATION (25% OF ANNUAL)	0.0
ADJUSTED EVAPOTRANSPIRATION	51.4

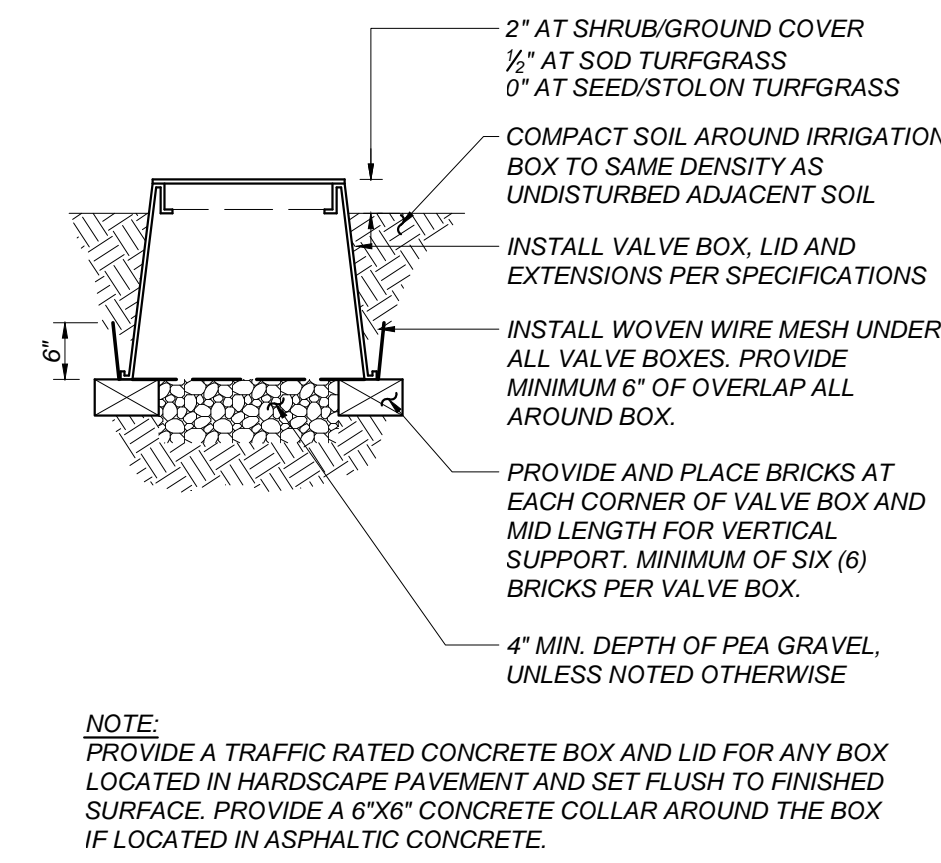
MAWA=(Eto) x (0.62) x [(0.65 x LA)+(0.35 x SLA)]	ANNUAL	2015 DWR/DSA Update
<b>MAX. APPLIED WATER ALLOWANCE</b>	<b>6.3</b>	K Gallons
TOTAL IN ACRE/FT	0.0	
TOTAL IN CCF	8.5	

**ETWU = ESTIMATED TOTAL WATER USE (1,000 GALLONS)**

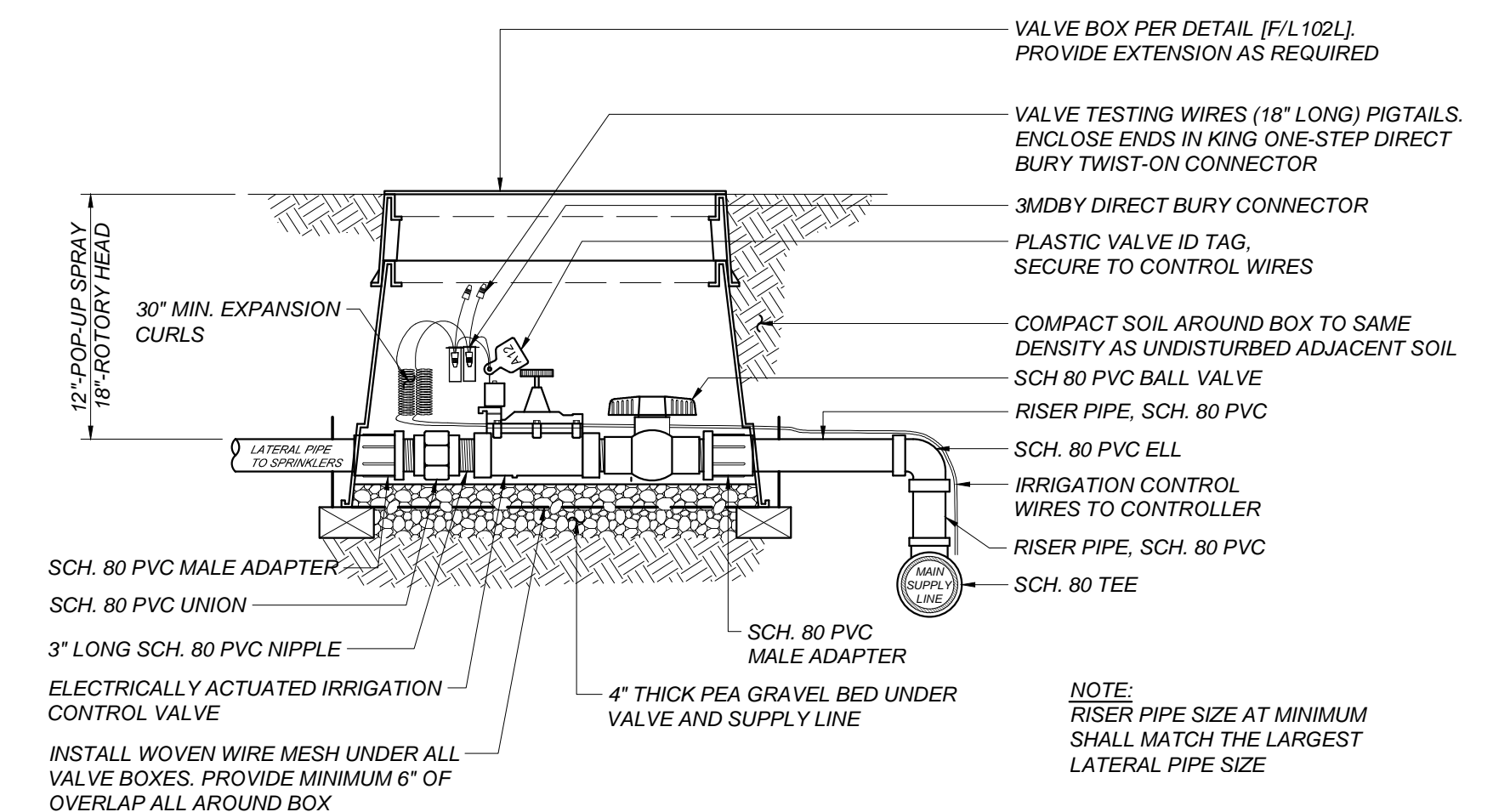
LANDSCAPE HYDROZONE TYPES	199	HA	PF	IE	ETAF
MIXED PLANTING (L)	0	SF	0.3	0.81	0.37
MIXED PLANTING (M)	0	SF	0.5	0.81	0.62
WARM-SEASON TURFGRASS (MH)	0	SF	0.6	0.75	0.80
SLA - RECREATIONAL/RECYCLED WATER USE	199	SF	0.6	0.75	0.80
AVERAGE REGULAR ETAF:					#DIV/0!
<b>MAXIMUM AVERAGE REGULAR ETAF:</b>					<b>0.65</b>
AVERAGE SITEWIDE ETAF:					0.80
ETWU=(Eto) x (0.62) x [(HA x PF/IE) + SLA]					ANNUAL
MIXED PLANTING (L)	0.0		0.75	overhead sprinklers	
MIXED PLANTING (M)	0.0		0.81	drip & bubblers	
WARM-SEASON TURFGRASS (M)	0.0				
SLA - RECREATIONAL/RECYCLED WATER USE	5.1				
<b>ESTIMATED TOTAL WATER USE</b>	<b>5.1</b>				K Gallons
TOTAL IN ACRE/FT	0.0				
TOTAL IN CCF	6.8				
<b>ETWU AS A PERCENT OF MAWA:</b>	<b>80%</b>				



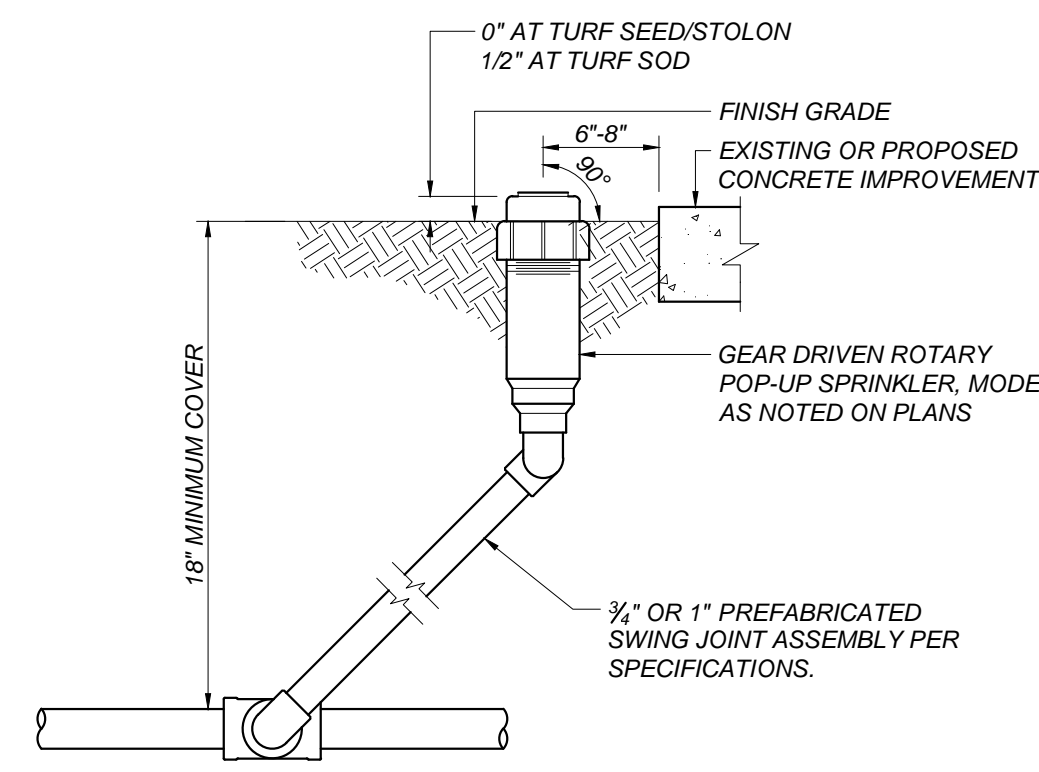
**E** IRRIGATION WIRE  
L102L NOT TO SCALE



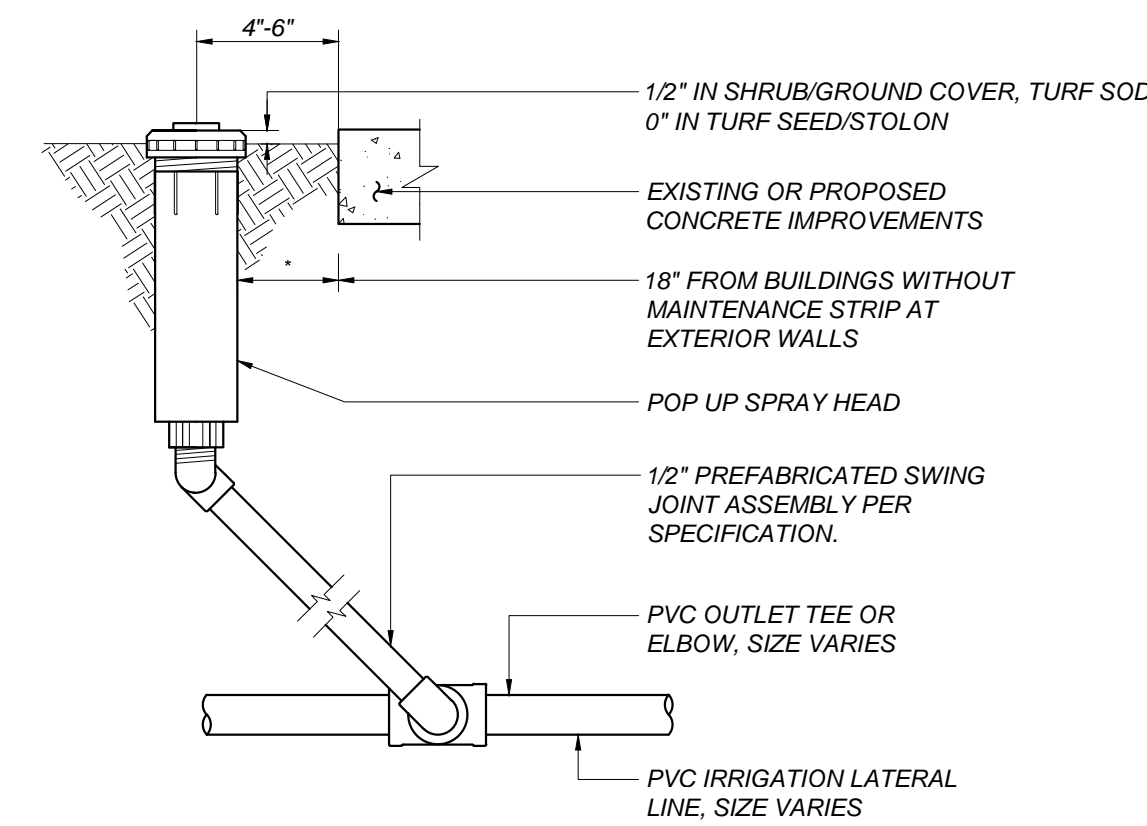
**F** IRRIGATION VALVE BOX  
L102L NOT TO SCALE



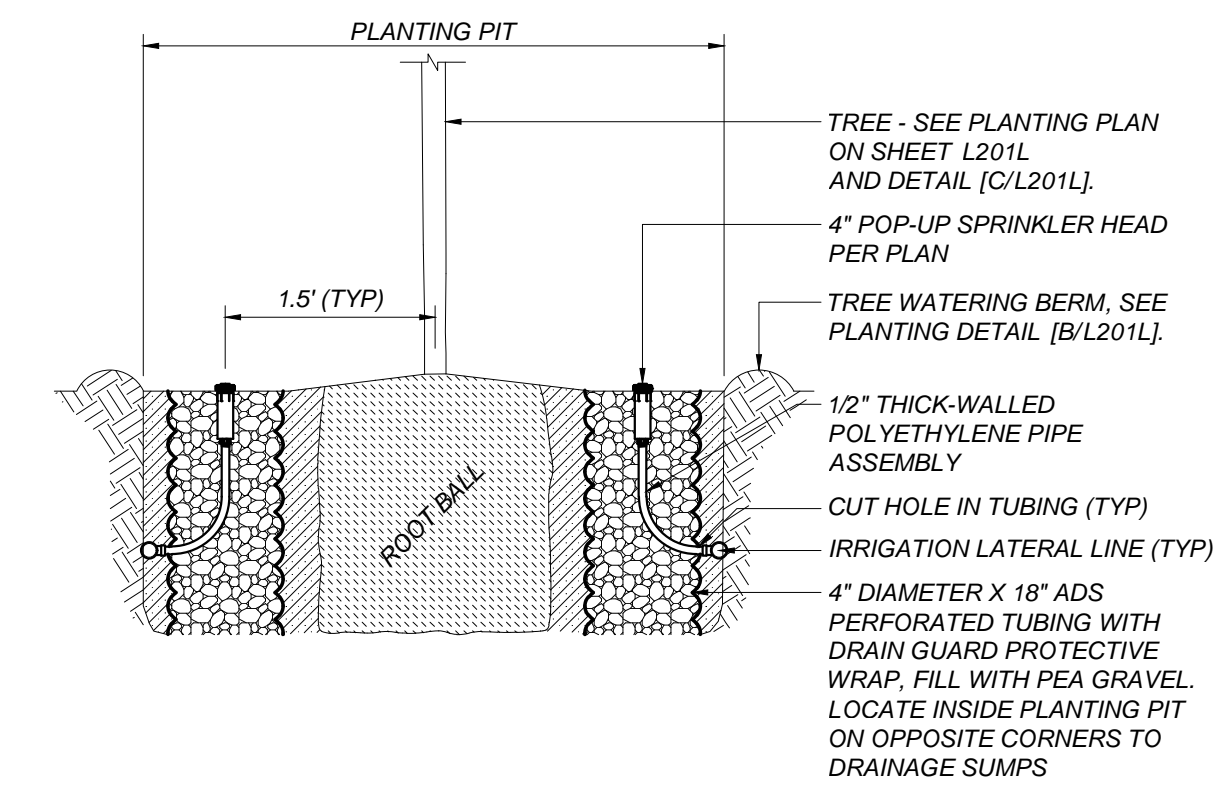
**G** REMOTE CONTROL VALVE WITH BALL VALVE - GLOBE  
L102L NOT TO SCALE



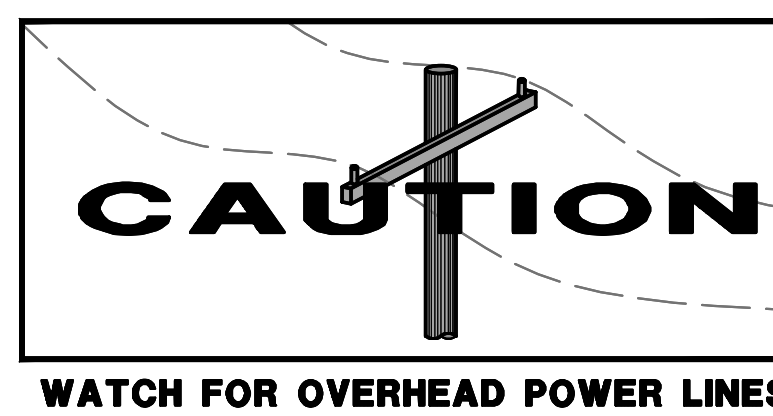
**H** POP-UP ROTOR  
L102L NOT TO SCALE



**I** POP-UP SPRAY  
L102L NOT TO SCALE



**J** TREE BUBBLERS  
L102L NOT TO SCALE



CONSULTANT		REF. & REV.	CLOVIS UNIFIED SCHOOL DISTRICT	
Blair, Church & Flynn Consulting Engineers 455 Clovis Avenue, Suite 500 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500			PORTABLE ADDITION CLOVIS ONLINE CHARTER IRRIGATION DETAILS	
CONST. DOCUMENTS		L102L		

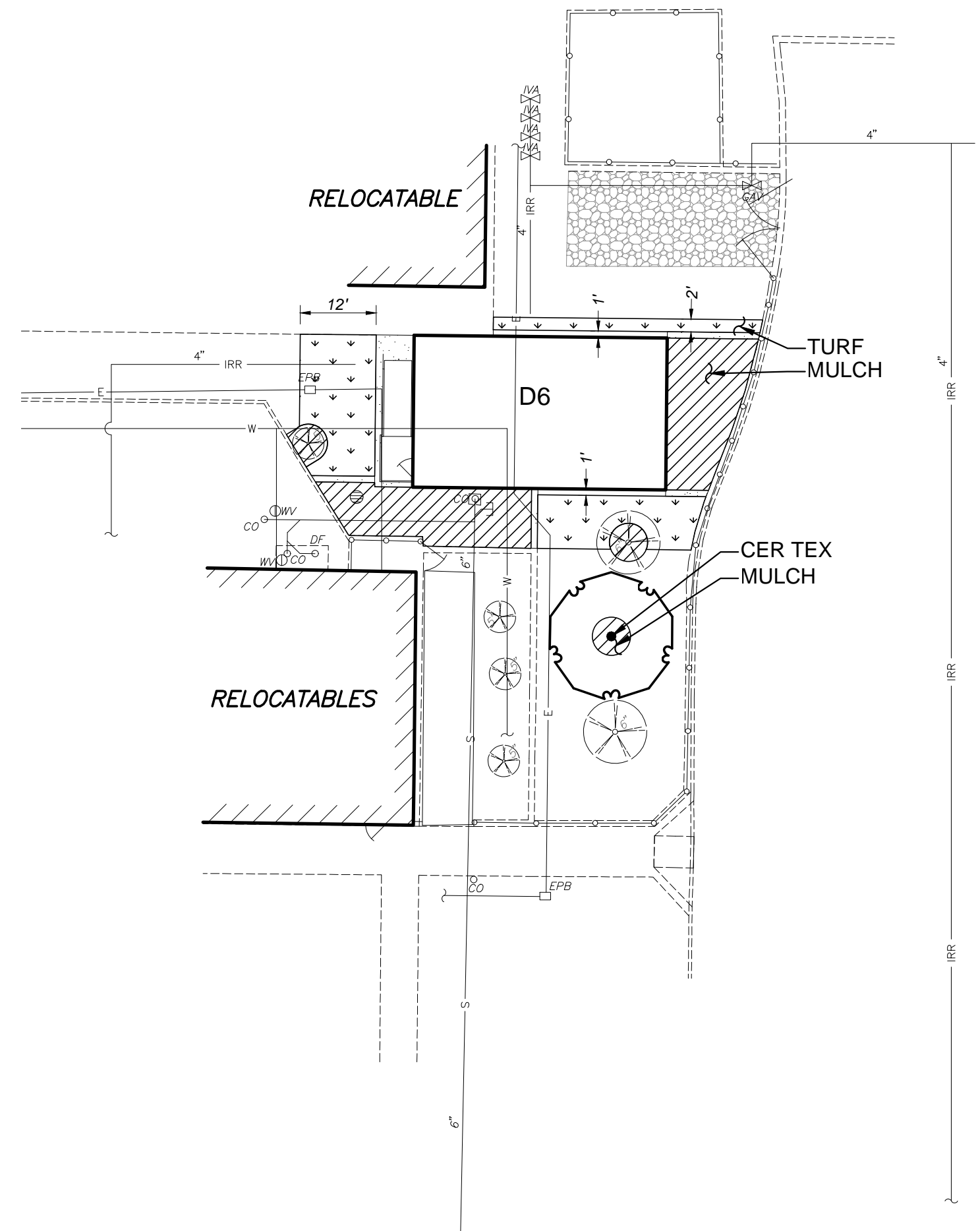


**CLOVIS USD SPECIAL NOTES:**

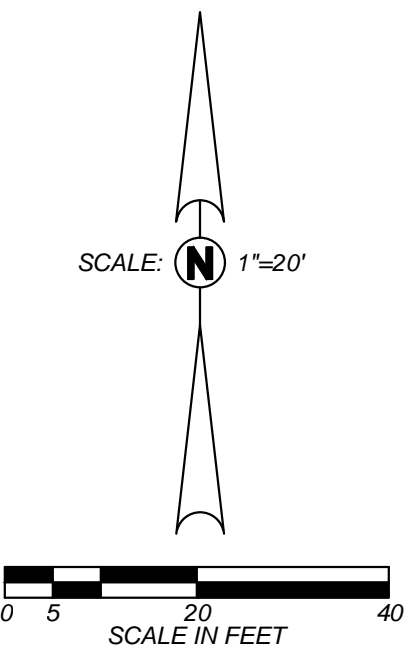
- ALL TREES, SHRUBS AND GROUND COVER PLANTS, EXCEPT FOR TURFGRASS, SHALL BE OBTAINED FROM ONE OR MORE OF THE FOLLOWING NURSERIES:
  - BELMONT NURSERY - (559) 255-6645
  - H & E NURSERY - (559) 297-0599
  - MCCALL'S NURSERY - (559) 255-7679
  - GREEN HILLS NURSERY - (559) 291-8873
- THE OWNER SHALL NOTIFY THE LANDSCAPE ARCHITECT IF SPECIFIED PLANTS ARE NOT AVAILABLE FROM THE ABOVE SOURCES A MINIMUM OF 30 DAYS PRIOR TO THE SCHEDULED DELIVERY TO THE SITE, AND SHALL INCLUDE INFORMATION FOR AN ALTERNATE NURSERY SOURCE IF AVAILABLE ELSEWHERE.
- ALL TREES AND PLANTS SHALL BE REVIEWED AND APPROVED FOR BOTH QUALITY AND LAYOUT BY A DISTRICT GROUNDS SUPERVISOR PRIOR TO STARTING ANY PLANTING OPERATIONS.
- ALL PLANTS ADJACENT TO BUILDINGS SHALL BE PLANTED A MINIMUM OF 4 FEET FROM THE BUILDING, UNLESS NOTED OTHERWISE.
- WOOD MULCH SHALL BE "CENTRAL VALLEY WALK-ON BARK" PROVIDED BY GREENS' BEST (559-260-4316).

**PLANTING NOTES:**

- IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE IF IT IS OBVIOUS THAT OBSTRUCTIONS OR STRUCTURES, IRRIGATION SYSTEM MALFUNCTION, EXISTING TREES OR PLANTS, GRADE DIFFERENCES OR CHANGES IN THE SITE PLAN ARE PRESENT THAT WILL IMPACT THE PLANTING DESIGN. FAILURE TO GIVE SUCH NOTIFICATION SHALL PLACE THE RESPONSIBILITY ON THE CONTRACTOR FOR ANY REVISIONS OR REPLACEMENTS NECESSARY FOR CORRECTION.
- ANY EXISTING PLANTING SHOWN ON THE PLAN IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY THE EXISTING PLANTING AT THE SITE PRIOR TO STARTING WORK. UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL PROTECT THE EXISTING PLANTING ADJACENT TO THE WORK FROM DAMAGE OR DISTRESS.
- ALL TREES AND SHRUBS SHALL BE OF CLASS A QUALITY WITHOUT PESTS, DISEASE OR DAMAGE, SHALL BE WELL ESTABLISHED IN THEIR CONTAINERS WITHOUT GIRDLING ROOTS OR EXCESSIVE TOP GROWTH, AND SHALL COMPLY WITH THE REQUIREMENTS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" (ANSI Z60.1).
- NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO THE INSTALLATION OF IRRIGATION COMPONENTS AND TREE AND/OR SHRUB PLANTING FOR APPROVAL OF THE PLANT LAYOUT AND PLANT QUALITY. PLANT LOCATIONS SHALL AVOID CONFLICTS WITH EXISTING IMPROVEMENTS, PLANTINGS OR UTILITIES, LIGHT POLES WHILE MEETING THE DESIGN INTENT. DO NOT PLANT TREES WITHIN 15 FEET OF LIGHT POLES UNLESS SPECIFICALLY AUTHORIZED. FAILURE TO OBTAIN SUCH APPROVAL SHALL PLACE THE RESPONSIBILITY ON THE CONTRACTOR FOR ANY RELOCATION OR REPLACEMENT OF IRRIGATION COMPONENTS, PLANTED TREES AND/OR SHRUBS.
- PLANT QUANTITIES ARE PROVIDED FOR BIDDING CONVENIENCE ONLY. THE CONTRACTOR SHALL PROVIDE SUFFICIENT QUANTITIES OF PLANTS EQUAL TO THE SYMBOL COUNT OR TO FILL THE AREA SHOWN ON THE PLAN AT THE SPECIFIED TRIANGULAR SPACING.
- WHERE GROUND COVER PLANTS ARE SHOWN AT A SPECIFIED SPACING, THE GROUND COVER PLANTING CONTINUES UNDERNEATH THE TALLER SHRUBS AND TREES AS SHOWN IN THE PLANTING DETAILS. DO NOT PLANT GROUND COVER IN SHRUB OR TREE WATERING BASINS.
- ALL NEW TREES LOCATED WITHIN 8 FEET OF PAVEMENT OR STRUCTURES SHALL HAVE A ROOT CONTROL BARRIER INSTALLED WHEN PLANTED, UNLESS OTHERWISE SPECIFIED, INSTALL A 12 FOOT LONG X 24 INCH DEEP LINEAR POLYETHYLENE BARRIER VESPRO OR EQUAL AT THE EDGE OF PAVEMENT/STRUCTURE, CENTERED ON THE TREE TRUNK AS SHOWN IN THE PLANTING DETAILS.
- REMOVE NURSERY STAKES FROM TREES AFTER TREE STAKING OR GUYING AS SHOWN IN THE DETAILS.
- INSTALL PERFORATED POLYETHYLENE TREE TRUNK PROTECTORS FOR ALL NEW TREES PLANTED IN TURF. UNLESS NOTED OTHERWISE, MAINTAIN A MINIMUM 6 FOOT DIAMETER MULCHED AREA AT THE BASE OF THE TREE INSIDE THE WATERING BASIN.
- THE CONTRACTOR SHALL PRUNE NEW TREES ONLY WHEN SPECIFICALLY DIRECTED BY THE LANDSCAPE ARCHITECT. TREES HEADED BACK WITHOUT INTACT SCAFFOLDING BRANCH STRUCTURE OR IN ROOT-BOUND CONTAINERS SHALL BE REJECTED.
- SUBMIT REPRESENTATIVE SOIL SAMPLES OF NATIVE AND PROPOSED IMPORT, IF NEEDED, PLANTING TOPSOIL TO A SOIL LAB FOR HORTICULTURAL ANALYSES AND FERTILITY RECOMMENDATIONS. AMEND SOIL ACCORDING TO THE RECOMMENDATIONS OF THE SOILS REPORT AND LANDSCAPE ARCHITECT'S DIRECTION. SEE THE LANDSCAPE PLANTING SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS.
- PROVIDE SANDY LOAM TOPSOIL PER SPECIFICATION IN ALL RAISED PLANTERS AND WHERE IMPORT TOPSOIL IS REQUIRED. NATIVE SITE SOIL MAY BE USED IN RAISED PLANTERS ONLY WHEN THE NATIVE SITE SOIL MEETS THE CRITERIA FOR SANDY LOAM TOPSOIL AS DETERMINED BY A SOIL ANALYSIS.
- PRIOR TO SOIL CONDITIONING, RIP IN TWO DIFFERENT DIRECTIONS WITH TINES AT 12 INCH SPACING. ALL TURFGRASS AREAS TO A 12 INCH DEPTH, AND SHRUB/GROUND COVER AREAS TO A 18 INCH DEPTH. ROUGH GRADE AND TILL THE APPROVED SOIL CONDITIONERS AND FERTILIZERS INTO THE TOP 6 INCHES PER THE LANDSCAPE PLANTING SPECIFICATIONS. COMPOST RATE SHALL BE A MINIMUM OF FOUR (4) CUBIC YARDS PER 1,000 SQUARE FEET.
- UPON THE COMPLETION OF THE SOIL CONDITIONING, REMOVE ROCKS AND CLODS 1 INCH DIAMETER AND GREATER FROM THE TOP TWO INCHES OF TOPSOIL, AND ALL DEBRIS. FINISH GRADE THE AREA TO +/- 0.04 FOOT TOLERANCE. FINISH GRADE IN MULCHED AREAS SHALL BE STRAIGHT GRADES WITHOUT HUMPS OR DEPRESSIONS AND SHALL BE 2 INCHES BELOW ADJACENT HARDSCAPE, INLETS OR UTILITY BOX COLLARS. RELATIVE DENSITY OF THE TOPSOIL SHALL NOT EXCEED 85% COMPACTION.
- OBTAIN THE APPROVAL OF THE OWNER'S REPRESENTATIVE TO BEGIN PLANTING OPERATIONS ONCE THE IRRIGATION SYSTEM IS OPERATIONAL AND THE SOIL CONDITIONING AND FINISH GRADING IS COMPLETED.
- AFTER PLANTING IS COMPLETED AND JUST PRIOR TO MULCH INSTALLATION, APPLY A BROAD SPECTRUM PRE-EMERGENT HERBICIDE TO ALL NON-TURFGRASS PLANTING AREAS PER THE MANUFACTURER'S SPECIFICATIONS.
- WHERE MULCH IS TO BE INSTALLED IN AN EXISTING PLANTING AREA, BREAKUP/TILL THE EXISTING SOIL TO A MINIMUM 6 INCH DEPTH PER SPECS, AND ADJUST FINISH GRADE ADJACENT TO HARDSCAPE AND DRAINAGE ELEMENTS TO PROVIDE A 2 INCH DEPTH THAT TRANSITIONS TO THE EXISTING GRADE OVER 1 TO 2 FEET.
- INSTALL A MINIMUM 3 INCH DEPTH OF CHIPPED WALK-ON WOOD MULCH IN ALL PLANTING AREAS AND TREE WATERING BASINS EXCEPT FOR TURFGRASS AREAS. SLOPES 3:1V OR GREATER, AREAS TO RECEIVE SEED PLANTING, OR AS NOTED ON THE PLAN, AREAS PLANTED WITH PLANTS SHALL HAVE A MINIMUM MULCH DEPTH OF 2 INCHES. INSTALL A MINIMUM 3 FOOT RADIUS OF 3 INCH DEEP WOOD MULCH AT THE BASE OF ALL TREES IN NEW TURFGRASS AREAS.
- ALL EXISTING PLANTS AND/OR TURFGRASS SHOWN TO REMAIN AND DAMAGED OR REMOVED BY CONSTRUCTION OPERATIONS AND/OR IRRIGATION/DRAINAGE LINES SHALL BE REPLACED WITH PLANTS THAT MATCH AS CLOSELY AS POSSIBLE TO THE EXISTING PLANT SPECIES, VARIETY AND SIZE. THE REPLACEMENT TURFGRASS SOD VARIETY SHALL BE THE SAME AS SHOWN IN THE PLANTING LEGEND AS IF FOR NEW WORK, OR SHALL MATCH THE EXISTING TURFGRASS VARIETY WHERE EXISTING. TILL SOIL CONDITIONING MATERIALS INTO THE TOP 6 INCHES OF THE SOIL OVER THE AREA OF REPAIR/REPLACEMENT AS IF FOR NEW WORK. ADJUST FINISH GRADE SO NEW TURFGRASS SOD ABUTS FLUSH TO EXISTING SOD GRADE. THE REPLACEMENT PLANTS AND/OR TURFGRASS SOD SHALL BE MAINTAINED AS PART OF THE ORIGINAL SCOPE OF WORK. THE REPAIR OR REPLACEMENT WORK SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE.
- CONTRACTOR SHALL MAINTAIN THE NEW PLANTING FOR HEALTHY AND VIGOROUS GROWTH, WHICH INCLUDES BUT IS NOT LIMITED TO WATERING, WEEDING, FERTILIZING, MOWING AND EDGING (AT LEAST ONCE A WEEK), REMOVING TRASH AND DEBRIS, AND OTHER RELATED ACTIVITIES THROUGHOUT THE DURATION OF THE MAINTENANCE PERIOD UNTIL FINAL ACCEPTANCE.



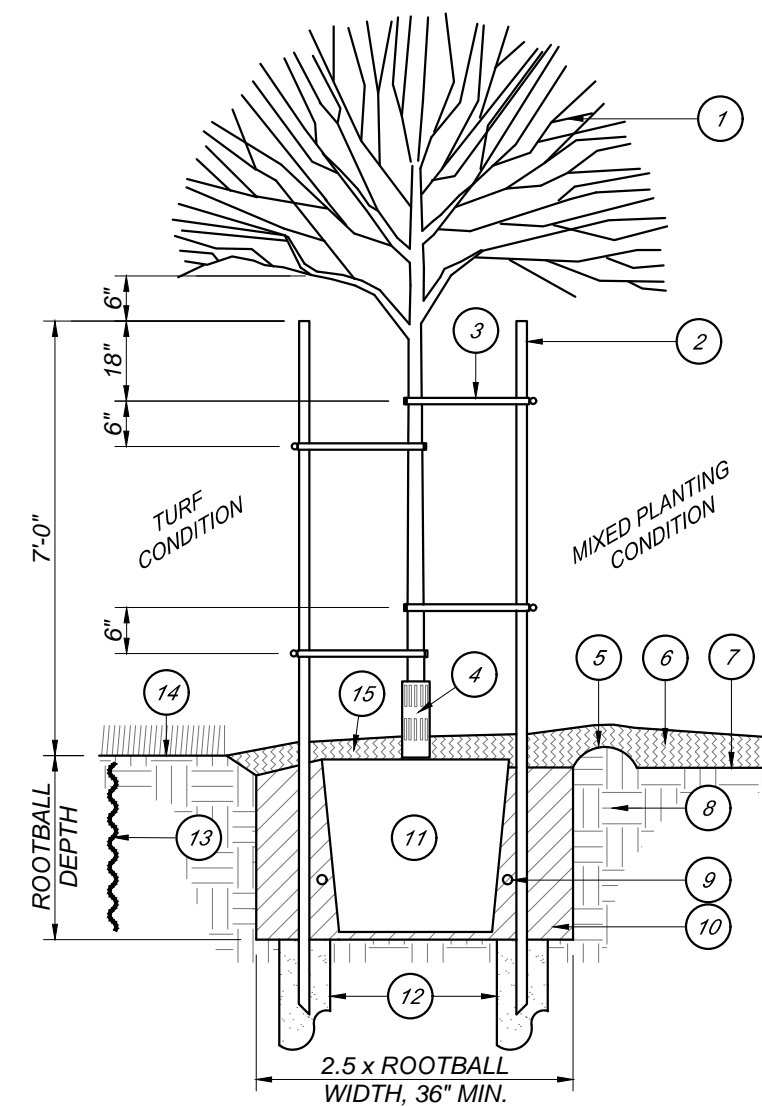
DAVID E. COOK WAY



**PLANT LEGEND:**

TREES	CODE	BOTANICAL / COMMON NAME	CONT	WATER USE	QTY	DETAIL	REMARKS
	CER TEX	CERCIS CANADENSIS TEXENSIS 'OKLAHOMA' OKLAHOMA REDBUD	15 GAL	M	1	A/L201L	DECIDUOUS STANDARD FORM. 15-20" H X 15-20" W
GROUND COVERS	CODE	BOTANICAL / COMMON NAME	CONT	WATER USE	QTY	DETAIL	REMARKS
	TURF	CYNODON DACTYLON X TRANVAALENSIS 'TIFWAY 419' TIFWAY 419 BERMUDA GRASS	SOD	H	520 SF	C/L201L	
	MULCH	WALK-ON WOOD MULCH	N/A	N/A	623 SF	A/L201L B/L201L	SEE NOTE 18

SUNSET CLIMATE ZONE: 9

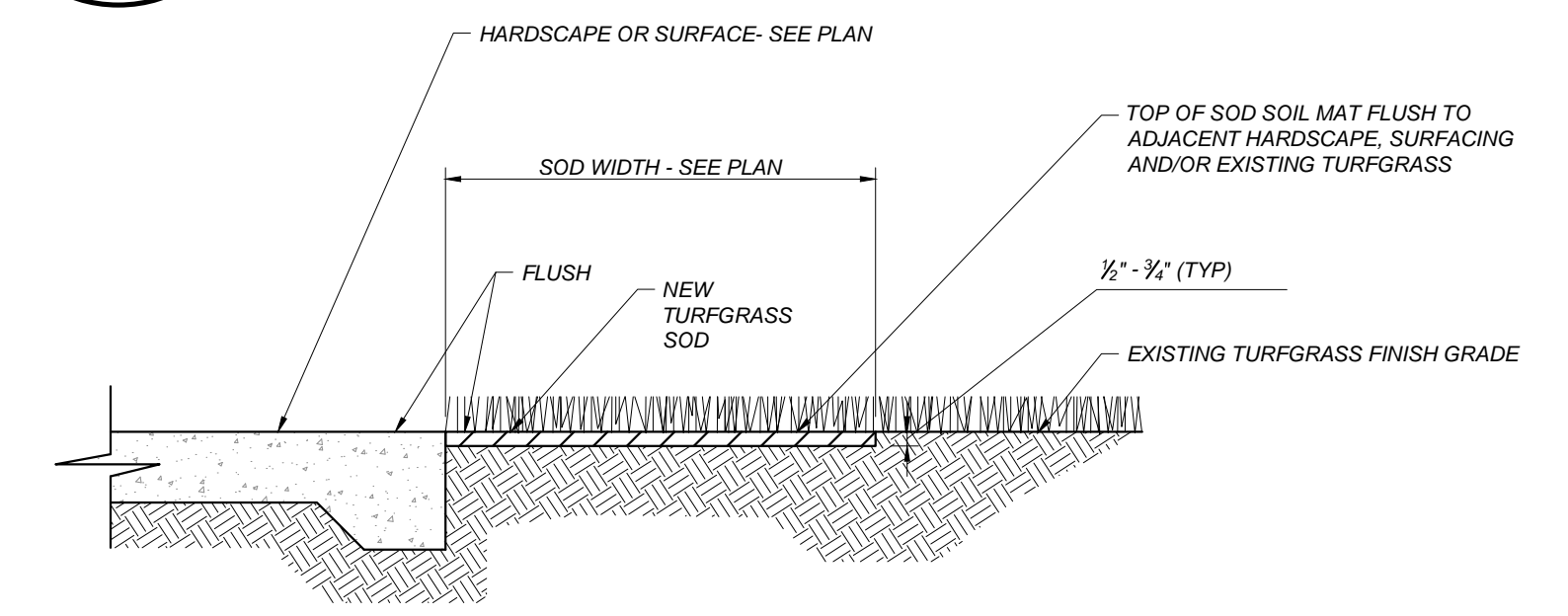


**DRAINAGE SUMP NOTES:**

- DRAINAGE SUMPS SHALL PENETRATE THROUGH AND BEYOND ANY UNDERLYING PAVEMENT OR HARDSPAN SOIL STRATUM, AND SUCH PAVEMENT OR HARDSPAN MATERIAL SHALL BE REMOVED FROM THE SUMP HOLES.
- THE SUMP HOLE SHALL BE DRILLED TO MINIMUM DEPTH OF TEN (10) FEET, UNLESS VISUAL EVIDENCE OF A SUBSURFACE SAND AND/OR GRAVEL DRAINAGE STRATUM IS APPARENT AT A LESSER DEPTH. THE SUMP HOLES SHALL EXTEND INTO THE DRAINAGE STRATUM A MINIMUM OF ONE (1) FOOT.



**B MULCH DETAIL**  
L201L NOT TO SCALE



**C TURF SOD INSTALLATION**  
L201L NOT TO SCALE

**LANDSCAPE PLANTING AREA REQUIREMENT:**

NEW BUILDING FOOTPRINT:	960 SF (A)
REQUIRED MWELO COMPLIANT PLANTING (A*0.75):	720 SF (B)
EXISTING IRRIGATION AREA SCHEDULED FOR REMOVAL:	1,732 SF (C)
AREA OF EXISTING LANDSCAPE BEING REHABILITATED:	0 SF (D)
TOTAL MWELO COMPLIANT PLANTING CREDIT (C+D):	1,732 SF (E)
EXCESS / (DEFICIT) OF PROPOSED COMPLIANT PLANTING (E-B):	1,012 SF

**CONTRACTOR SPECIAL PLANTING NOTES:**

- AN ASSESSMENT AND VALUATION OF ON-SITE EXISTING TREES SCHEDULED TO REMAIN IN THE AREA OF WORK SHALL BE PERFORMED BY THE CONTRACTOR'S ARBORIST PRIOR TO THE START OF CONSTRUCTION OPERATIONS PER THE EXISTING LANDSCAPE PROTECTION SPECIFICATION.
- THE CONTRACTOR SHALL RIP, CONDITION AND TILL THE ENTIRE EXTENT OF ALL PLANTING AREAS RECEIVING NEW PLANTS PER THE PLANTING NOTES AND LANDSCAPE PROTECTION SPECIFICATIONS.
- ALL EXISTING MIXED PLANTING AREAS RECEIVING NEW WOOD MULCH SHALL BE MANUALLY TILLED TO A MINIMUM DEPTH OF 4 INCHES. CLODS BROKEN UP TO A MAXIMUM 1 INCH DIAMETER, FINISH GRADED TO 2 INCHES BELOW ADJACENT SURFACES AND UTILITY/IRRIGATION BOXES WITHIN 12 INCHES OF THE HARDSCAPE EDGE, AND A PRE-EMERGENT HERBICIDE APPLIED PRIOR TO WOOD MULCH INSTALLATION. PROTECT EXISTING PLANTING DURING WOOD MULCH PREPARATION AND INSTALLATION.
- THE ORIGINAL PLANTING OBSERVATION LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET.
- THE AS-BUILT RECORD DRAWING SET AND MAINTENANCE MANUAL SHALL BE SUBMITTED AND ACCEPTED PRIOR TO THE SCHEDULING OF A FINAL ACCEPTANCE REVIEW.

**LANDSCAPE PLANTING BID ALLOWANCE:**

CONTRACTOR SHALL INCLUDE A BID ALLOWANCE IN THE AMOUNT OF \$1,000 FOR THE REMOVAL AND REPLACEMENT OF EXISTING PLANTS/TURFGRASS AND/OR THE INSTALLATION OF NEW PLANTS/TURFGRASS WHERE NOT SPECIFICALLY SHOWN ON THE DRAWINGS FOR REPLACEMENT OR INSTALLATION.

**WATER CONSERVATION COMPLIANCE STATEMENT:**

I HAVE COMPLIED WITH THE CRITERIA OF THE LANDSCAPE WATER CONSERVATION ORDINANCE AND GUIDELINES, AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE PLANTING DESIGN PLAN.

*David W. Briley*  
DAVID W. BRILEY, 1972787

SEE SHEET L102L FOR MWELO CALCS

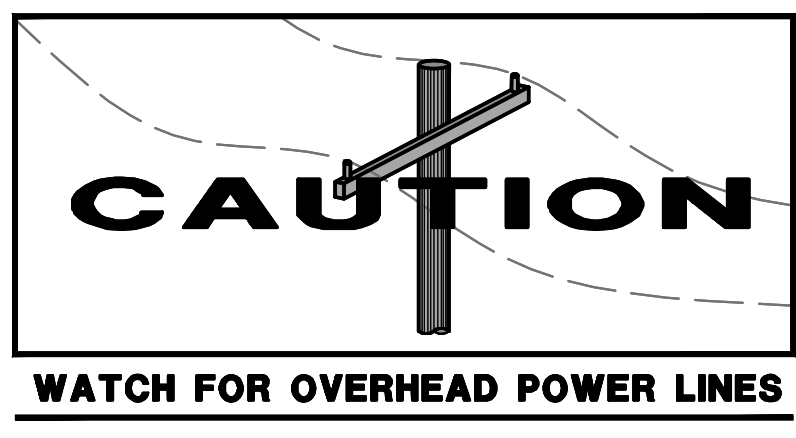
**TREE SIZE AND QUALITY STANDARDS**  
AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1) AND GUIDELINE SPECIFICATIONS FOR NURSERY TREE QUALITY (URBAN TREE FOUNDATION) SHALL APPLY

CONTAINER SIZE	TYPES 1 & 2 SHADE TREES			TYPE 3 SMALL UPRIGHT TREES**			TYPE 4 SMALL SPREADING TREES***		
	MIN. CALIPER	MAX. CALIPER	TYPE 1 MIN./MAX. HEIGHT"	MIN. CALIPER	MAX. CALIPER	MIN. HEIGHT	MIN. CALIPER	MAX. CALIPER	MIN./MAX. HEIGHT
15 GALLON	0.75	2.0	7-10 FT	0.75	2.0	6-8 FT	0.75	2.0	4-8 FT
24" BOX	1.25	3.0	8-12 FT	1.25	3.0	8-10 FT	1.25	3.0	6-10 FT
38" BOX	1.75	3.5	10-16 FT	1.75	3.5	10-14 FT	1.75	3.5	7-12 FT
42" BOX	2.0	4.0	12-20 FT	2.0	4.0	12-18 FT	2.0	4.0	8-14 FT
48" BOX	2.5	5.0	14-26 FT	2.5	5.0	14-22 FT	2.5	5.0	9-16 FT

\* TYPE 2 TREE HEIGHTS SHALL NOT BE LESS THAN TWO-THIRDS THE LISTED HEIGHT RANGE.  
\*\* TYPE 3 TREES SHALL HAVE A MINIMUM OF SEVEN BRANCHES  
\*\*\* TYPE 4 TREES SHALL HAVE A MINIMUM OF EIGHT BRANCHES  
CALIPER MEASUREMENT FOR CLUMP OR MULTI-STEM TREES IS ONE-HALF THE SUM OF THE THREE LARGEST TRUNK CALIPERS  
CALIPER MEASUREMENT FOR 4" TRUNK IS 4" ABOVE ROOTBALL (NOT INCLUDING ROOTSTOCK). 4" TRUNK IS +12"  
TREES SHALL HAVE A CENTRAL LEADER. NEW LEADERS LESS THAN HALF THE DIAMETER OF A HEADED LEADER, BROKEN OR CO-DOMINATE LEADERS ARE NOT ACCEPTABLE  
SCAFFOLD BRANCHES SHALL BE LESS THAN 2/3 THE DIAMETER OF THE TRUNK, WITHOUT INCLUDED BARK AT ATTACHMENT. SCAFFOLD BRANCHES SHALL BE BALANCED, WELL SPACED VERTICALLY, AND WITH A RADIALLY BLANK SECTOR NO GREATER THAN 1/3 OF THE CANOPY CIRCUMFERENCE.  
TEMPORARY BRANCHES ON THE LOWER TRUNK SHALL BE LESS THAN 3/8 INCH DIAMETER, AND THE CLEAR TRUNK HEIGHT SHALL BE NO MORE THAN 40% OF THE TOTAL TREE HEIGHT.  
THE ROOT COLLAR AND ROOTBALL SHALL BE FREE OF DEFECTS INCLUDING CIRCLING, KINKED AND GIRDLING ROOTS. ROOTS THE EDGE AND BOTTOM OF THE CONTAINER SHALL BE LESS THAN 1/4 INCH DIAMETER, AND UNIFORM THROUGHOUT THE CONTAINER.  
TREE CANOPY WIDTH SHALL BE A MINIMUM OF 25% OF THE STANDARD FORM TREE HEIGHT.  
DO NOT HEAD BACK OR PRUNE TREES UNLESS APPROVED AND/OR DIRECTED TO BY THE LANDSCAPE ARCHITECT

LANDSCAPE PLANTING OBSERVATION LOG			REVIEWED & ACCEPTED BY OWNER'S REP OR LAND ARCH		
ITEM NO.	WORK ITEM DESCRIPTION		PRINT NAME	SIGNATURE	DATE
PL-1	REPORT & PROTECTION OF EXISTING TREES				
PL-2	RIPPING OF PLANTING AREAS				
PL-3	SOIL CONDITIONING & TILLAGE DEPTH				
PL-4	IRRIGATION COVERAGE PRIOR TO PLANTING				
PL-5	FINISH GRADING PRIOR TO PLANTING				
PL-6	TREES - INITIAL QUALITY & LAYOUT				
PL-7	PLANTS - INITIAL QUALITY & LAYOUT	N/A		N/A	
PL-8	WOOD MULCH DEPTH				

NOTES: THE ORIGINAL VERSION OF THIS LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET. WORK ITEMS MAY NOT BE REVIEWED IF PRIOR WORK ITEMS HAVE NOT BEEN ACCEPTED.



CONSULTANT	REF. & REV.	CLOVIS UNIFIED SCHOOL DISTRICT	
Blair, Church & Flynn Consulting Engineers 455 Clovis Avenue, Suite 200 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500		PORTABLE ADDITION CLOVIS ONLINE CHARTER PLANTING PLAN	CONST. DOCUMENTS L201L
		DR. BY: GB CH. BY: DWB DATE: 04/29/2022 SCALE AS NOTED	



## ELECTRICAL COMPONENT ANCHORAGE NOTES:

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

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING ELECTRICAL UTILITY SERVICE. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE ANCHORED IN A MANNER APPROVED BY DSA.

THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCE NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

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

THE ANCHORAGE OF ALL ELECTRICAL COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

## ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES:

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

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

THE ELECTRICAL DISTRIBUTION SYSTEM IS DETAILED ON THE APPROVED DRAWINGS WITH SPECIFIC NOTES AND DETAILS. WHEN A DETAIL IS NOT PROVIDED ON THE PLANS, THE ELECTRICAL DISTRIBUTION SYSTEM SHALL COMPLY WITH OSHPD PRE-APPROVAL #OPM-0052-13 (B-LINE).

## LOW VOLTAGE GENERAL NOTES:

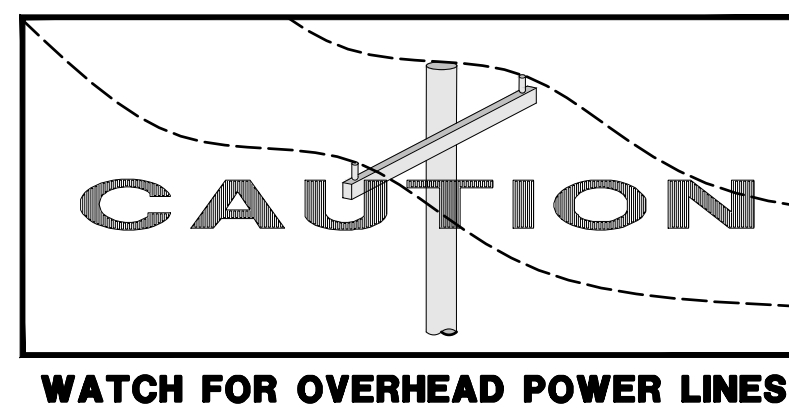
- THE ELECTRICAL CONTRACTOR SHALL CONTACT EACH SIGNAL SYSTEM VENDOR AND THOROUGHLY INVESTIGATE THE EXPANDABILITY OF ALL EXISTING SYSTEMS. THE CONTRACTOR'S BID SHALL INCLUDE ALL REQUIRED COMPONENTS, PROGRAMMING, ETC. TO INTEGRATE THE WORK SHOWN IN DIV. 16 DRAWINGS AND PROVIDE FOR FULLY FUNCTIONAL LOW VOLTAGE SYSTEMS.
- EXISTING PULL BOX LOCATIONS ARE DIAGRAMMATIC. FIELD VERIFY EXACT LOCATIONS. ADD CONDUITS TO EXISTING PULL BOXES WHERE INDICATED. REPAIR ANY DAMAGE INCURRED.
- DISCONNECT, REMOVE, REPULL, AND REITERMINATE EXISTING CABLING AS REQUIRED TO INSTALL NEW CABLING IN EXISTING CONDUITS.
- TERMINAL CABINETS TO BE WIEGMANN RHC SERIES, OR EQUAL, W/ MOUNTING PANELS / PLYWOOD BACK BOARD. INSTALL ALL REQUIRED TERMINAL STRIPS, PUNCH DOWN BLOCKS, ETC.
- INSTALL NYLON PULL LINE WITH ALL CABLE RUNS IN UNDERGROUND CONDUITS.
- CABLING AND DEVICES ADDED AS SURFACE MOUNTED IN RELOCATABLE BUILDINGS SHALL BE INSTALLED IN WIREMOLD 800 (OR 2300 AS NEEDED), COLOR TO BE SELECTED BY ARCHITECT. INSTALLATION SHALL HAVE ONLY FACTORY COMPONENTS DESIGNED FOR THE SYSTEM UTILIZED.

## ELECTRICAL GENERAL NOTES:

- ALL WORK SHALL MEET THE LATEST ADOPTED ADDITIONS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND ALL OTHER APPLICABLE REGULATIONS, WHICH INCLUDE:
  - CALIFORNIA BUILDING CODE 2019
  - CALIFORNIA ELECTRICAL CODE 2019
  - NON RESIDENTIAL CEC ENERGY STANDARDS 2019
- NOTHING IN THE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
- IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER EVERYTHING REQUIRED TO PROVIDE FOR COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS TO FURNISH LABOR, MATERIAL, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC. REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION IS TO BE INCLUDED, WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED.
- THE CONTRACTOR SHALL EXAMINE THE SITE AND EXISTING CONDITIONS AND MAKE ALLOWANCES IN THE BID FOR ANY CONDITIONS NOT SHOWN ON THE ELECTRICAL DOCUMENTS.
- THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE USED AS CONSTRUCTION GUIDELINES AND ARE NOT THE TOTAL INSTRUMENT OF CONTRACT DOCUMENTS. IT IS NOT THE INTENTION OF ANY CONSTRUCTION PLANS TO DIVIDE WORK AMONG DIFFERENT TRADES. VERIFY THE SCOPE OF WORK WITH THE ARCHITECT AND THE GENERAL CONTRACTOR.
- ELECTRICAL ROUTING IS DIAGRAMMATIC ONLY. ACTUAL ROUTING & PHYSICAL CONDITIONS MAY VARY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL ROUTING, CONNECTIONS, & PROVISION OF ALL APPURTENANCES NECESSARY FOR A COMPLETE & OPERATING SYSTEM.
- ELECTRICAL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED (UL, CSA ETC.) PER CEC 110.2.
- PROVIDE LABELING AND DIRECTORIES FOR ALL SWITCHBOARDS AND PANELBOARDS PER CEC 408.4.
- ELECTRICAL EQUIPMENT SHALL HAVE A SHORT CIRCUIT CURRENT RATING CAPABLE OF WITHSTANDING THE AVAILABLE SHORT CIRCUIT CURRENT PER CEC 110.9.
- PROVIDE MINIMUM 30" WIDE x 78" HIGH x 36" DEEP WORK CLEARANCES IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 120/208V 30 4W PER CEC 110.26.
- PROVIDE MINIMUM 30" WIDE x 78" HIGH x 42" DEEP WORK CLEARANCES IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 277/480V 30 4W PER CEC 110.26.
- ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUIT OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE MOUNTED BETWEEN 15" AFF AND 48" AFF AND SHALL COMPLY WITH CBC SECTION 11B-308. THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX. IF THE REACH IS OBSTRUCTED (E.G. BY CASEWORK, COUNTERS, ETC.), RECEPTACLES SHALL BE LOCATED WITHIN THE REACH RANGES SPECIFIED IN CBC 11B-308.2.2 AND 11B-308.3.2.
- CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES, OR COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE MOUNTED BETWEEN 15" AFF AND 48" AFF AND SHALL COMPLY WITH CBC SECTION 11B-308. THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX. IF THE REACH IS OBSTRUCTED (E.G. BY CASEWORK, COUNTERS, ETC.), SWITCHES AND CONTROLS SHALL BE LOCATED WITHIN THE REACH RANGES SPECIFIED IN CBC 11B-308.2.2 AND 11B-308.3.2.
- ALL WALL AND SURFACE MOUNTED FIXTURES PROTRUDING IN THE PATH OF TRAVEL (PO) OR COMMON PEDESTRIAN WAYS SHALL COMPLY WITH CBC 11B-307.2, OR SHALL BE MOUNTED LESS THAN 27" AFF OR GREATER THAN 80" AFF, OR SHALL BE PROVIDED WITH A BARRIER CONFORMING TO CBC 11B-307.4.
- EMERGENCY EGRESS LIGHTING SHALL PROVIDE A MINIMUM LUMINANCE OF 1 FOOTCANDLE AT THE WALKING SURFACE FOR A MINIMUM OF 90 MINUTES.
- PATH OF TRAVEL LIGHTING TO THE PUBLIC WAY OR DISPERSAL AREA SHALL PROVIDE A MINIMUM LUMINANCE OF 1 FOOTCANDLE AT THE WALKING SURFACE.
- FIRE ALARM EQUIPMENT SHALL BE SERVED BY DEDICATED FIRE ALARM BRANCH CIRCUITS PER NFPA 72 10.6.5.1.2. THE CIRCUIT NUMBER SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM EQUIPMENT PER NFPA 10.6.5.2.1. THE CIRCUIT BREAKER SHALL BE EQUIPPED WITH RED HANDLE AND LOCK-ON DEVICE, AND PERMANENTLY IDENTIFIED AS "FIRE ALARM CIRCUIT" PER NFPA 72 10.6.5.2.2, 10.6.5.2.3, 10.6.5.2.4, AND 10.6.5.4.
- WIRING FOR 120/208V AND 277/480V SYSTEMS SHALL BE MIN. #12 AWG THHN/THWN-2 COPPER.
- FEEDERS SIZE #4 AND LARGER SHALL BE MEGGER TESTED. TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER.
- COLORS/FINISHES/MATERIALS FOR ALL ELECTRICAL DEVICES, PLATES, LIGHT FIXTURES, ETC. SHALL BE CHOSEN BY THE ARCHITECT.
- PROVIDE PERMANENT LOCK-OPEN DEVICES ON CIRCUIT BREAKERS SERVING ELECTRIC WATER HEATERS TO MEET THE REQUIREMENTS OF CEC 422.31.
- CONTRACTOR SHALL EXTEND ALL SIGNAL AND FIRE ALARM SYSTEMS AS REQUIRED. MODIFY HEAD-IN EQUIPMENT TO ACCOMMODATE NEW DEVICES AS REQUIRED. VERIFY THE CONDITION AND EXPANDABILITY OF ALL HEAD-IN EQUIPMENT PRIOR TO BID AND MODIFY ACCORDINGLY.
- CALL USA UNDERGROUND ALERT AND VERIFY WITH DISTRICT THE DESIRED ROUTING AND LOCATIONS OF UNDERGROUND CONDUITS AND STRUCTURES PRIOR TO TRENCHING.
- EXISTING EQUIPMENT TO BE REMOVED AND/OR REPLACED SHALL BE DELIVERED TO THE DISTRICT MAINTENANCE DEPARTMENT OR DISPOSED OF, AT THE DISCRETION OF THE DISTRICT.
- ALL CONDUITS UNDER CONCRETE OR ASPHALT WILL HAVE 24" MINIMUM COVER OF ROCK FREE NATIVE SOIL. METALLIC WARNING TAPE AT 12" AND NO ENCASEMENT REQUIRED. ALL CONDUITS THAT HAVE CONDUCTORS WITH A POTENTIAL OF 250 VOLT TO GROUND OR GREATER THAT ARE NOT UNDER ASPHALT AND/OR CONCRETE SHALL REQUIRE 1,500 PSI CONCRETE ENCASEMENT. METALLIC WARNING TAPE AT 12" AND A MINIMUM COVER FROM TOP OF ENCASEMENT OF 24". ALL CONDUITS THAT HAVE CONDUCTORS WITH A POTENTIAL OF LESS THAN 250 VOLTS TO GROUND, THAT ARE NOT UNDER ASPHALT AND/OR CONCRETE WILL HAVE 30" MINIMUM COVER OF NATIVE SOIL. METALLIC WARNING TAPE AT 12" AND NO ENCASEMENT REQUIRED.
- INSTALL GALVANIZED RIGID STEEL RISERS & ELBOWS WHERE THEY OCCUR. WRAP GALVANIZED RIGID STEEL BELOW GRADE. PVC SHALL NOT BE INSTALLED ABOVE GRADE.
- CONDUIT INSTALLED ABOVE GRADE SHALL BE MIN. 3/4" TRADE SIZE. CONDUIT BELOW GRADE SHALL BE MIN. 1" TRADE SIZE.
- PROVIDE (4) 1" CONDUIT STUBS FROM NEW ELECTRICAL PANEL TO ACCESSIBLE ATTIC SPACE FOR FUTURE USE.
- CIRCUIT BREAKERS SERVING FIRE ALARM EQUIPMENT SHALL HAVE A RED HANDLE AND LOCK-ON DEVICE.
- HOLES ARE NOT ALLOWED THROUGH TOP PLATES OF BEARING WALLS AND SHEAR WALLS.
- INCLUDE FIRE STOP SYSTEMS REQUIRED FOR ALL WORK AFFECTED BY FIRE RATED ASSEMBLIES.
- INCLUDE ALL WORK REQUIRED TO INVESTIGATE, DEMOLISH, & RECONNECT EXISTING ITEMS.
- ALL LOW VOLTAGE EQUIPMENT SHALL BE DEENERGIZED PRIOR TO DEMO WORK. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO LIVE EQUIPMENT.

## ELECTRICAL SYMBOLS SCHEDULE:

	POLE WITH POST TOP AREA LUMINAIRE	
	POLE WITH DOUBLE AREA LUMINAIRES	
	LAY-IN LIGHT FIXTURE	
	SURFACE CEILING LIGHT	
	RECESSED DOWN LIGHT	
	WALL LIGHT	
	SWITCHBOARD	REFER TO POWER SINGLE LINE DIAGRAM
	POWER PANEL	REFER TO POWER SINGLE LINE DIAGRAM
	TERMINAL CABINET	REFER TO DETAIL 4/E102
	JUNCTION BOX	4-11/16" SQUARE BOX & COVER PLATE MIN.
	DISCONNECT SWITCH, FUSIBLE, WP	DISCONNECT FUSING TO BE PER NAMEPLATE DATA.
	MOTOR	REFER TO MECH. PLANS & SPECS.
	DUPLEX CONVENIENCE OUTLET AT +18" AFF TO CENTER OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED
	QUADPLEX CONVENIENCE OUTLET AT +18" AFF TO CENTER OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED
	GFI DUPLEX OUTLET AT +18" AFF TO CENTER OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED
	WP, GFI DUPLEX OUTLET AT +18" AFF TO CENTER OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED
	DATA OUTLET (RJ45 CAT6) WITH (2) JACKS AT +18" AFF TO CENTER OF BOX, U.O.N. (2) BLUE JACKS & CABLES	HOMERUN CABLES TO IDF.
	(2) WAP DATA JACKS (RJ45 CAT6) MOUNTED IN ATTIC SPACE (2) YELLOW JACKS & CABLE	HOMERUN CABLES TO IDF. SEE DETAIL 7/E102
	VoIP TELEPHONE OUTLET (RJ45 CAT6) (1) WHITE JACK & CABLE	HOMERUN CABLES TO IDF
	DATA/COMM OUTLET (RJ45 CAT6) AT +18" AFF TO CENTER OF BOX, U.O.N. (2) BLUE AND (1) WHITE JACKS & CABLES	HOMERUN CABLES TO IDF
	WALL MOUNT IP PA SPEAKER IN SURFACE ENCLOSURE	MATCH EXISTING SYSTEM COMPONENTS
	WALL CLOCK, BATTERY POWERED	VERIFY COMPATIBILITY WITH EXISTING SYSTEM
	AUDIO/VISUAL INPUT WITH (2) HDMI, (1) USB, & (1) 3.5MM AUDIO JACKS AND WALL PLATE AT +18" AFF TO CENTER OF BOX, U.O.N.	INSTALL CABLING BETWEEN TEACHER STATION AND PROJECTOR. SEE DETAIL 4/E103.
	MAIN DISTRIBUTION FRAME (MDF)	SEE CUSD STANDARD SPECIFICATIONS
	INTERMEDIATE DISTRIBUTION FRAME (IDF)	SEE CUSD STANDARD SPECIFICATIONS
	P.A. SYSTEM HEAD END	SEE CUSD STANDARD SPECIFICATIONS
	P.A. SYSTEM TERMINAL BLOCK	SEE CUSD STANDARD SPECIFICATIONS
	TEL. SYSTEM HEAD END	WHERE EXISTING
	TEL. SYSTEM TERMINAL BLOCK	WHERE EXISTING
	FIBER OPTIC SPLICE LOCATION	SEE CUSD STANDARD SPECIFICATIONS
	CAT6 PATCH PANEL	SEE CUSD STANDARD SPECIFICATIONS
	FIRE ALARM CONTROL PANEL	SEE FIRE ALARM PLANS
	FIRE ALARM EXPANDER PANEL	SEE FIRE ALARM PLANS
	EMERGENCY VOICE/ALARM COMMUNICATION PANEL	SEE FIRE ALARM PLANS
	FIRE ALARM SLC & NAC TERMINAL BLOCKS	LOCATION FOR REFERENCE. SEE FIRE ALARM PLANS
	WIREMOLD 5400 SURFACE WIREWAY	RISERS WHERE INDICATED ON DRAWINGS
	EXISTING WIRING TO REMAIN	
	WIRING BELOW GRADE	REFER TO DETAIL 6/E102. 1" C. CONDUIT MIN.
	WIRING IN WALL OR CEILING	3/4" CONDUIT MIN.
	LOW VOLTAGE WIRING	
	CONDUIT RISER	3/4" CONDUIT MIN.
	FLEXIBLE CONDUIT	3/4" CONDUIT MIN.
	CONDUIT STUB AND CAP	3/4" CONDUIT MIN.
	HASH MARKS DENOTES QTY. OF CONDUCTORS WIRE SIZE INDICATED, IF OTHER THAN #12 AWG	3/4" CONDUIT MIN.
	HOME RUN (TO PANEL 'A', CIRCUIT '15')	3/4" CONDUIT MIN.
(E)	"EXISTING"	
(N)	"NEW"	
UON	"UNLESS OTHERWISE NOTED"	
WP	"WEATHERPROOF" / NEMA 3R	
GFI	"GROUND FAULT INTERRUPTER"	



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CLOVIS UNIFIED SCHOOL DISTRICT

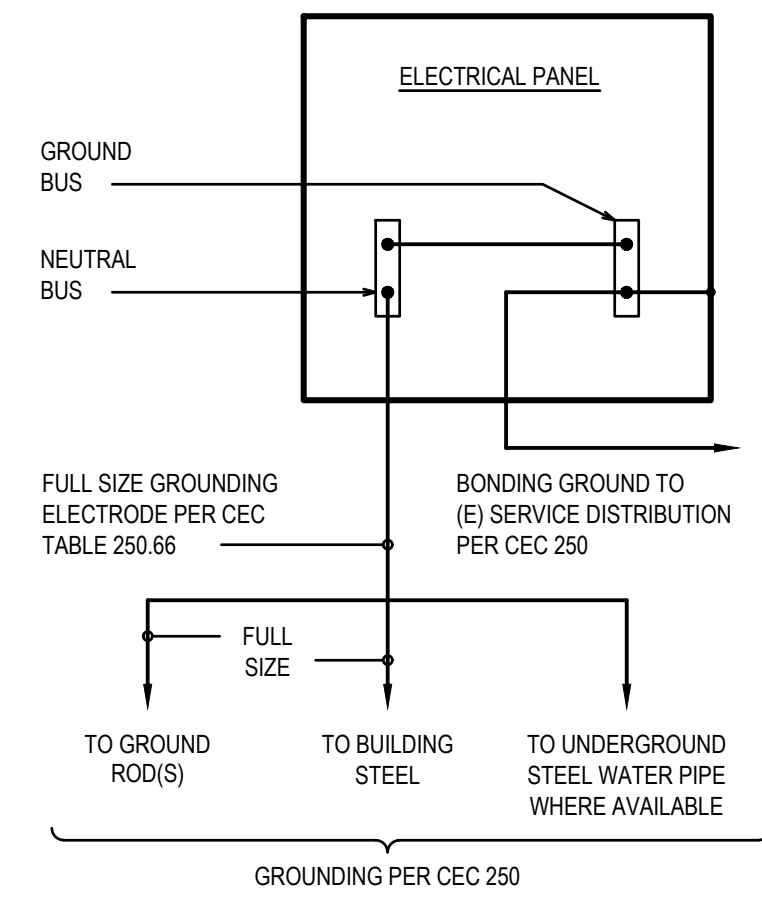
PORTABLE ADDITION  
CLOVIS ONLINE CHARTER  
ELECTRICAL NOTES

CONST. DOCUMENTS

DR. BY: EN  
CH. BY: SD  
DATE: 04/21/2022  
SCALE AS NOTED

E101

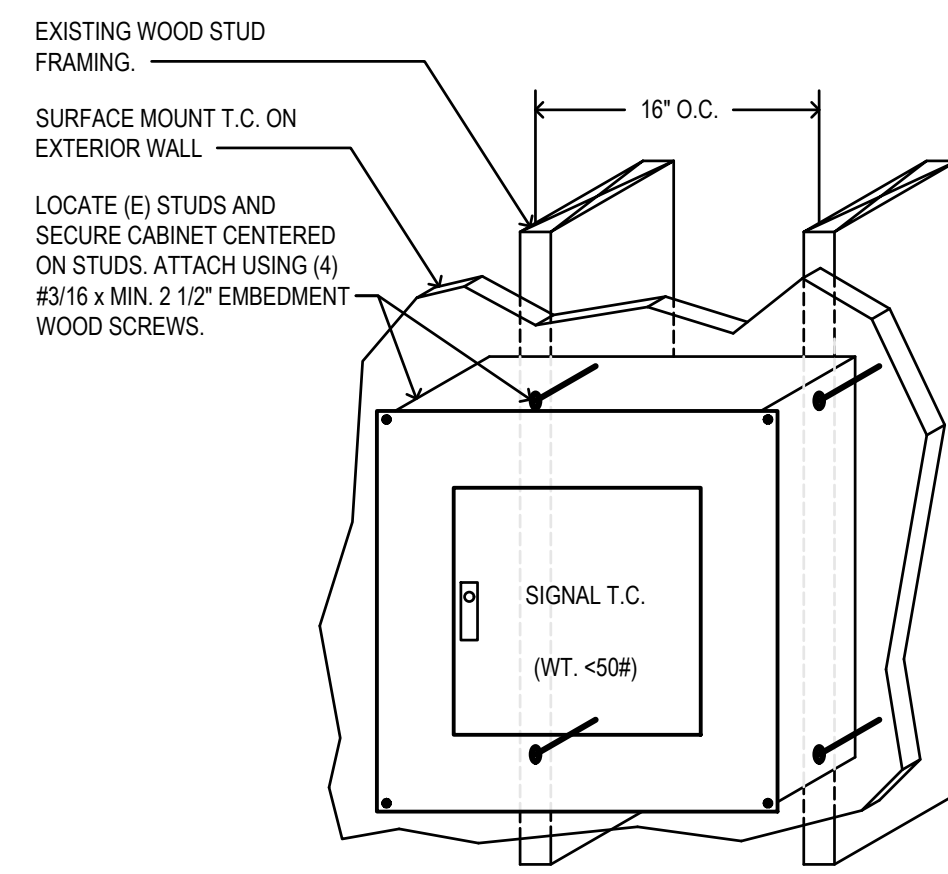




**PANEL GROUNDING DETAIL**

NO SCALE

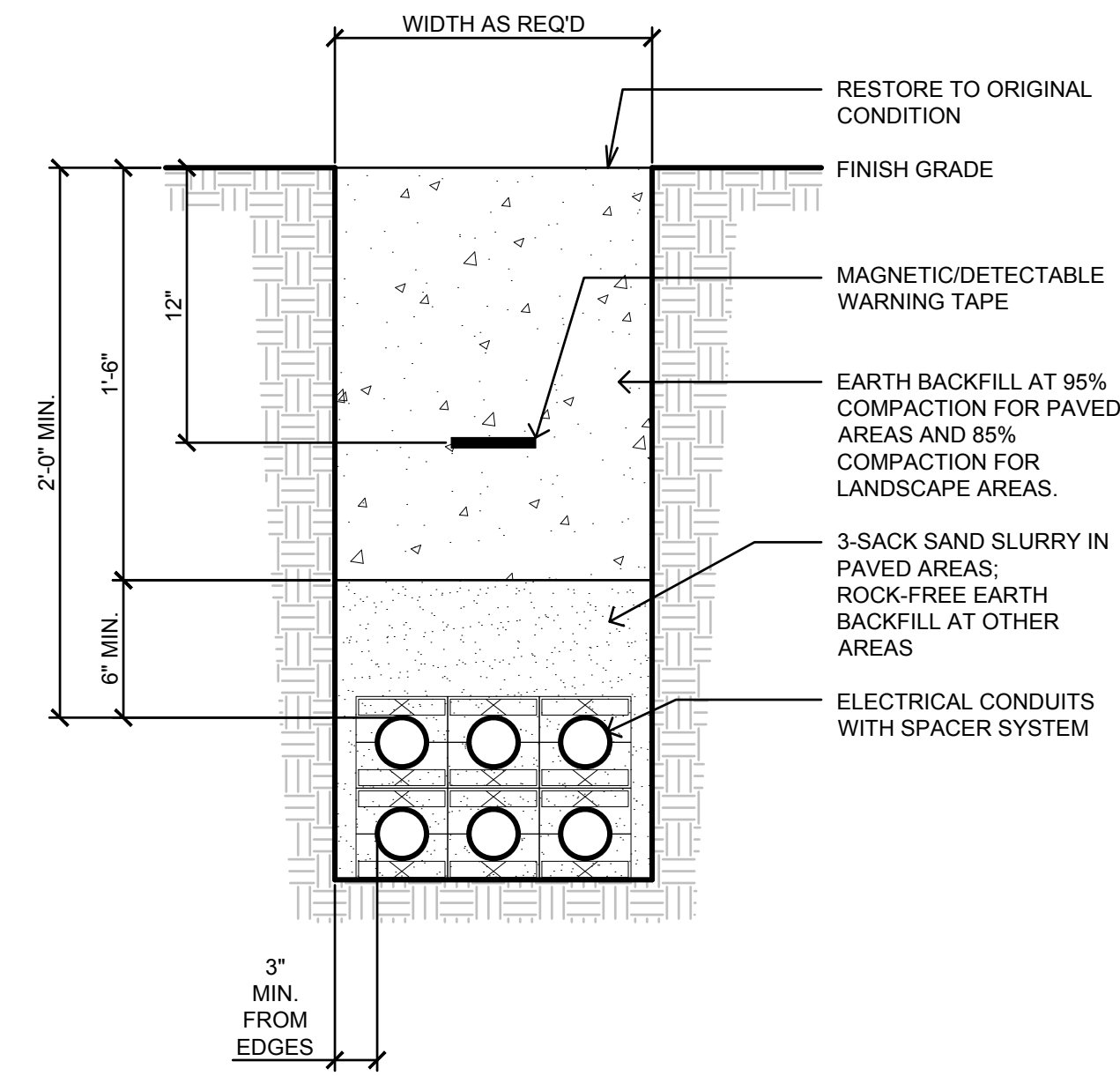
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**TERMINAL CABINET MOUNTING DETAIL**

NO SCALE

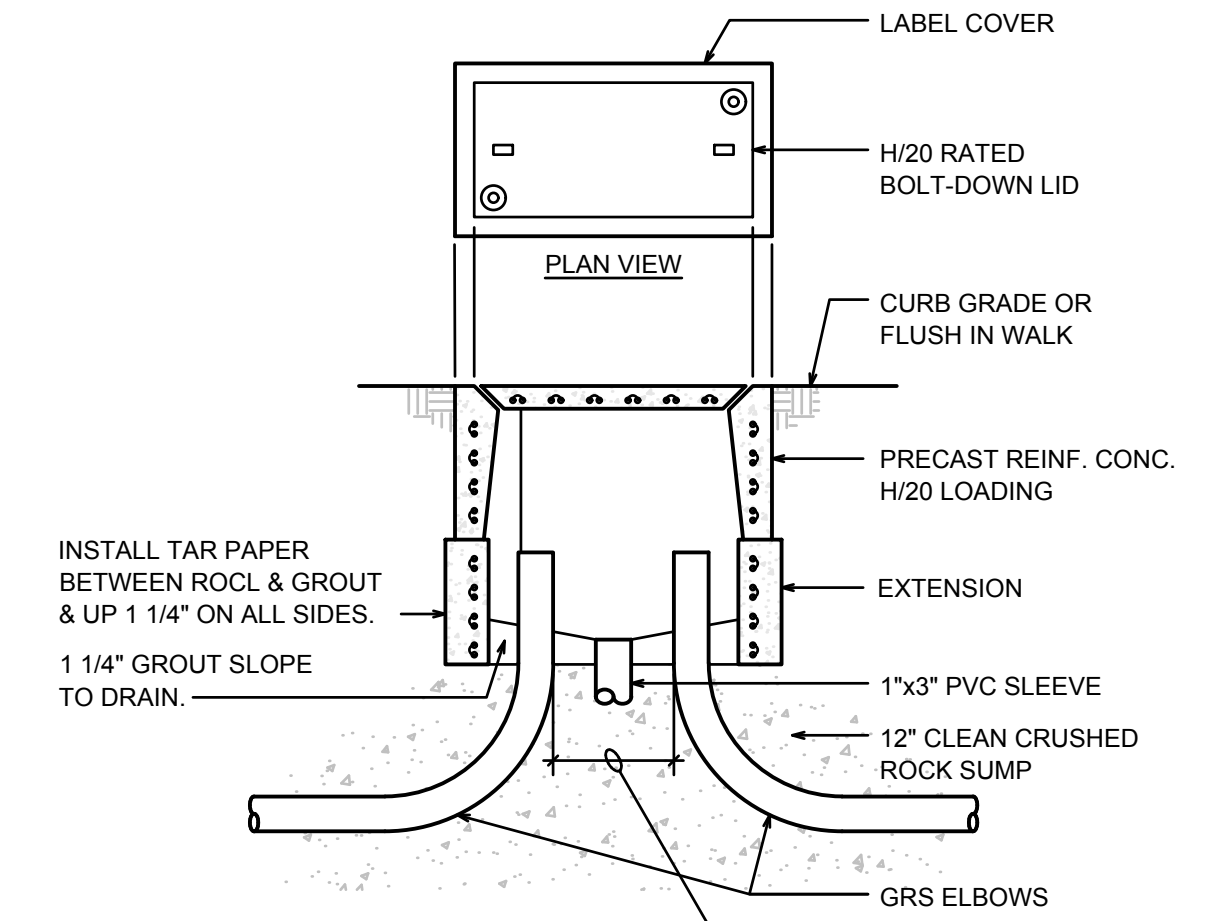
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**TRENCHING DETAIL**

NO SCALE

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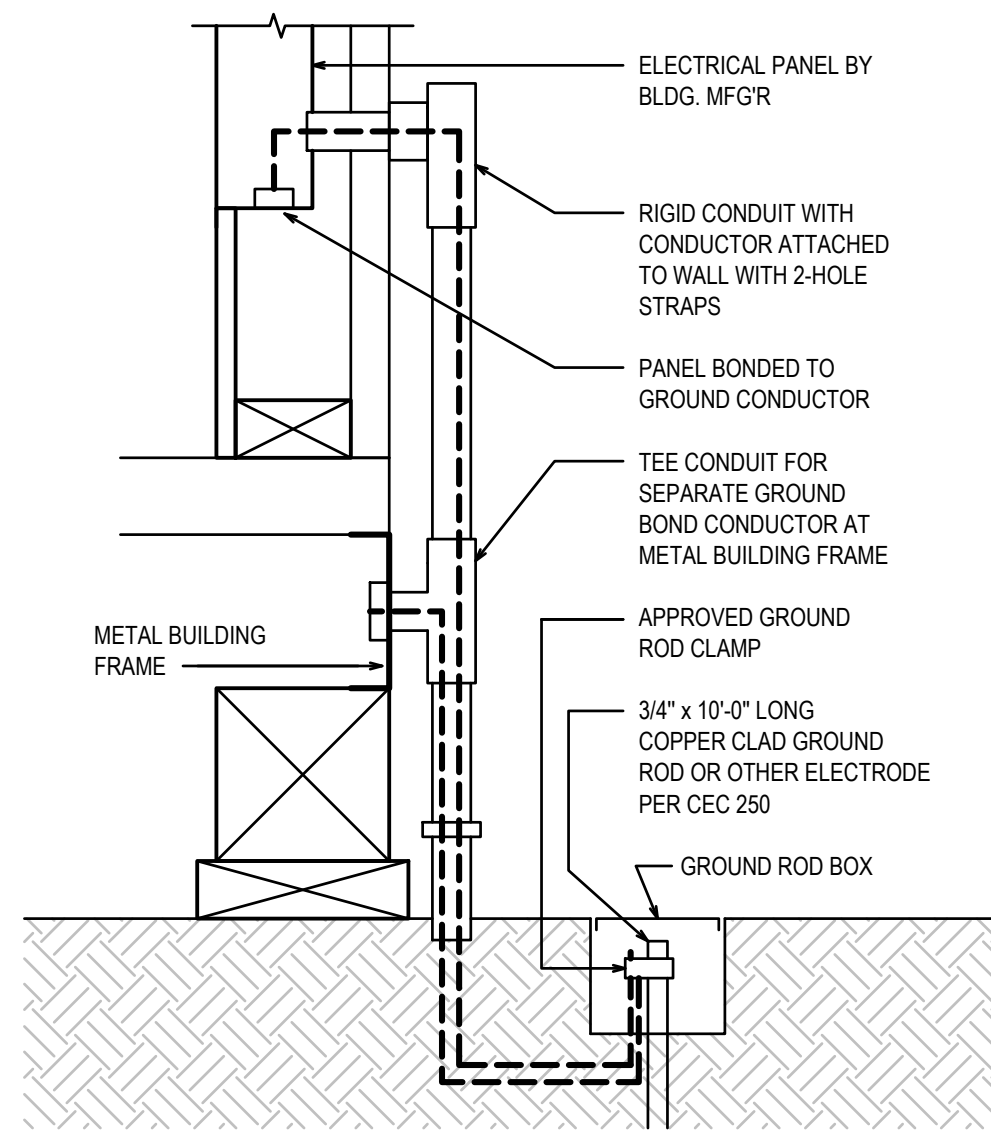


NOTE: COORDINATE WITH SCHOOL DISTRICT ALL LOCATIONS AT UNDERGROUND PULL BOXES PRIOR TO INSTALLATION. CONDUITS SHALL BE SPACED SIX TIMES THE TRADE DIAMETER OF THE LARGEST RACEWAY PER CEC 314.28(a)(2).

**PULLBOX DETAIL**

NO SCALE

8



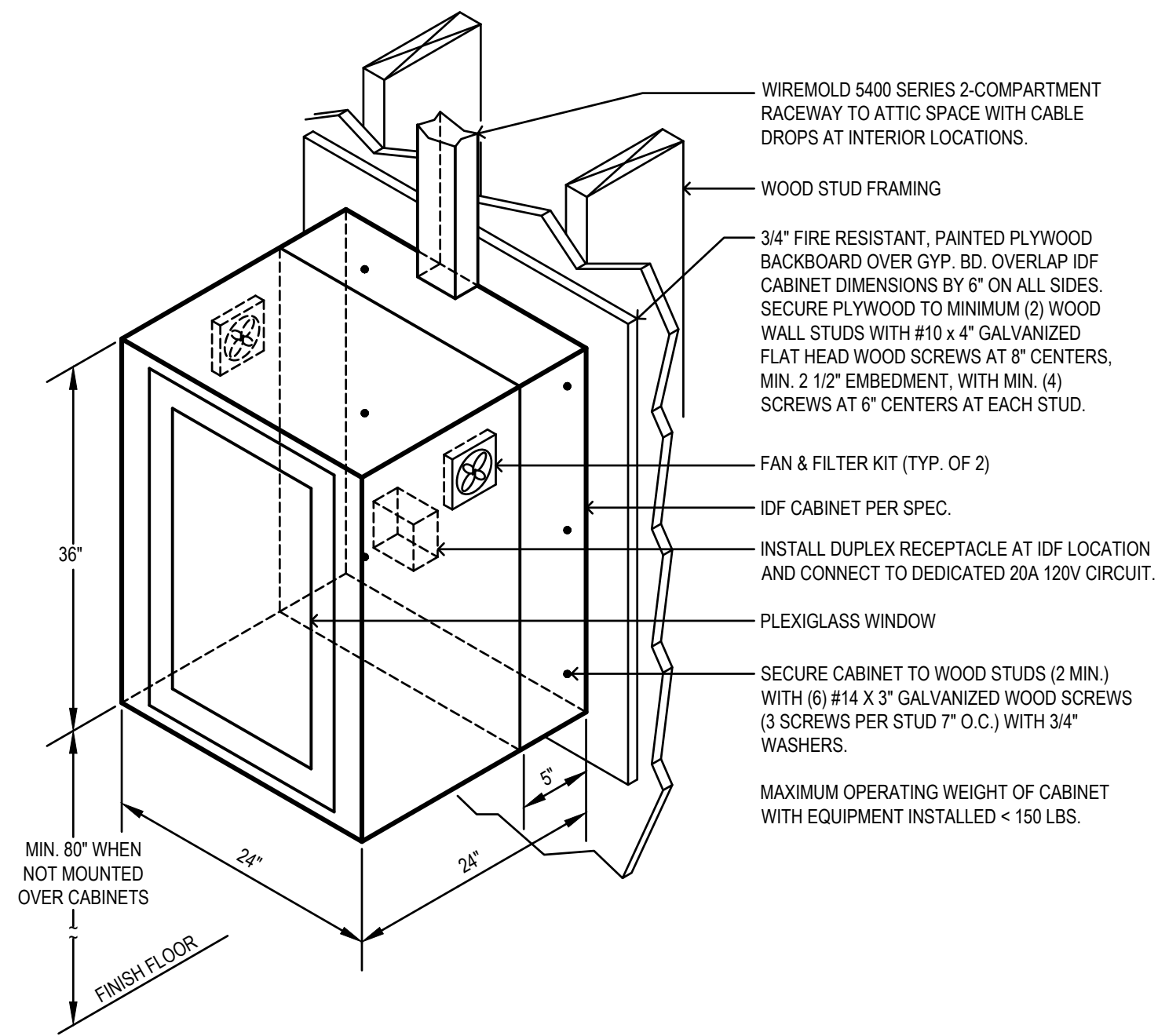
NOTES:

1. ALL GROUNDING SHALL COMPLY WITH CEC 250.
2. GROUNDING ELECTRODE CONDUCTOR SIZE SHALL COMPLY WITH CEC TABLE 250.66.
3. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME. IN ADDITION TO THE WORK SHOWN IN THE DETAIL ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPES EMBEDDED AT LEAST 10" INTO THE SOIL, IF AVAILABLE.
4. ALL MODULES OF THE METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED. BOLTING ALONE IS NOT ACCEPTABLE AS BONDING.
5. CHECK RESISTANCE TO GROUND. IF THE RESISTANCE AT ANY POINT EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS UNTIL READING IS LESS THAN 25 OHMS.
6. THE SITE INSPECTOR IS TO VERIFY GROUNDING TESTS. THE CONTRACTOR SHALL SUBMIT A WRITTEN REPORT OF FINDINGS TO D.S.A., SIGNED BY THE INSPECTOR.

**GROUND ROD / WELL DETAIL**

NO SCALE

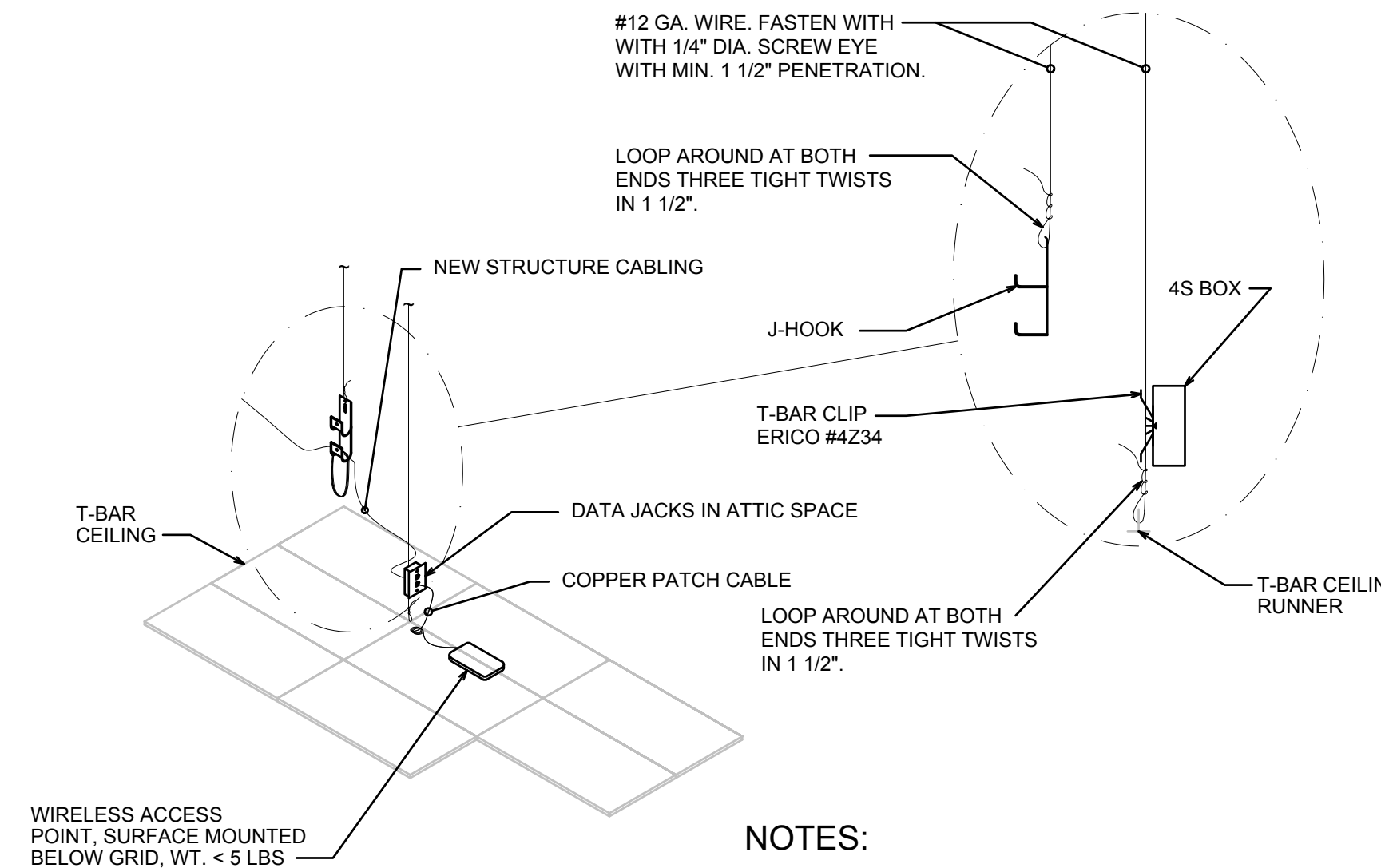
2



**IDF CABINET MOUNTING DETAIL**

NO SCALE

5



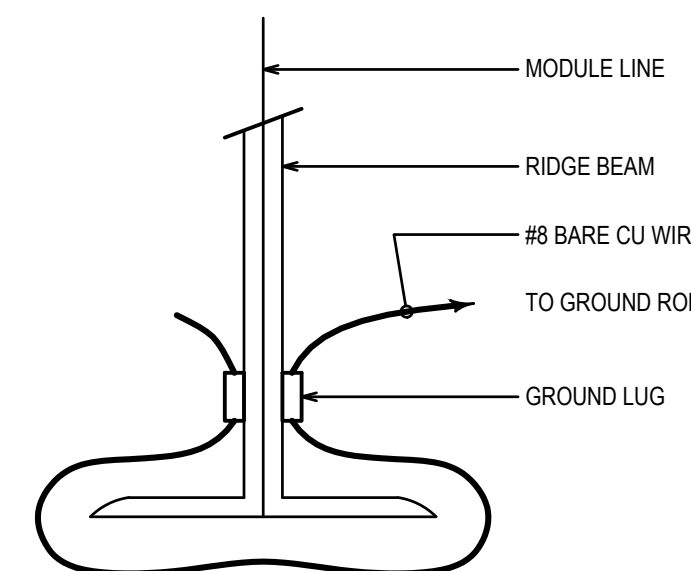
NOTES:

1. CONTRACTOR TO PROVIDE ALL TBAR WIRES AND ATTACHMENTS.
2. PROVIDE STRUCTURED CABLING AS SPECIFIED.
3. REPLACE ANY BROKEN TILES. ALERT OWNER TO ANY DAMAGE PRIOR TO INSTALLATION.

**DATA OUTLET AT T-BAR CEILING DETAIL**

NO SCALE

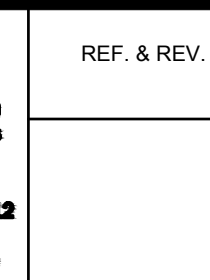
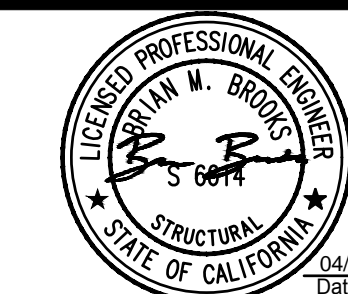
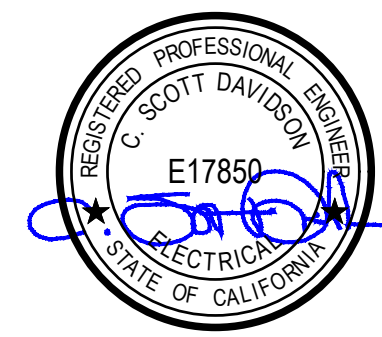
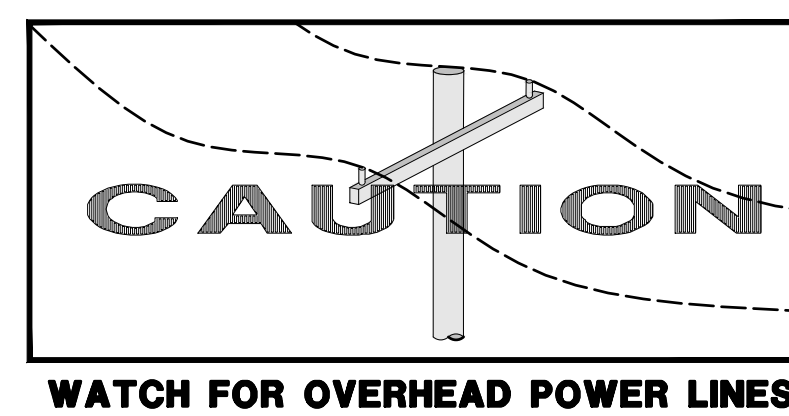
7



**MODULE BONDING DETAIL**

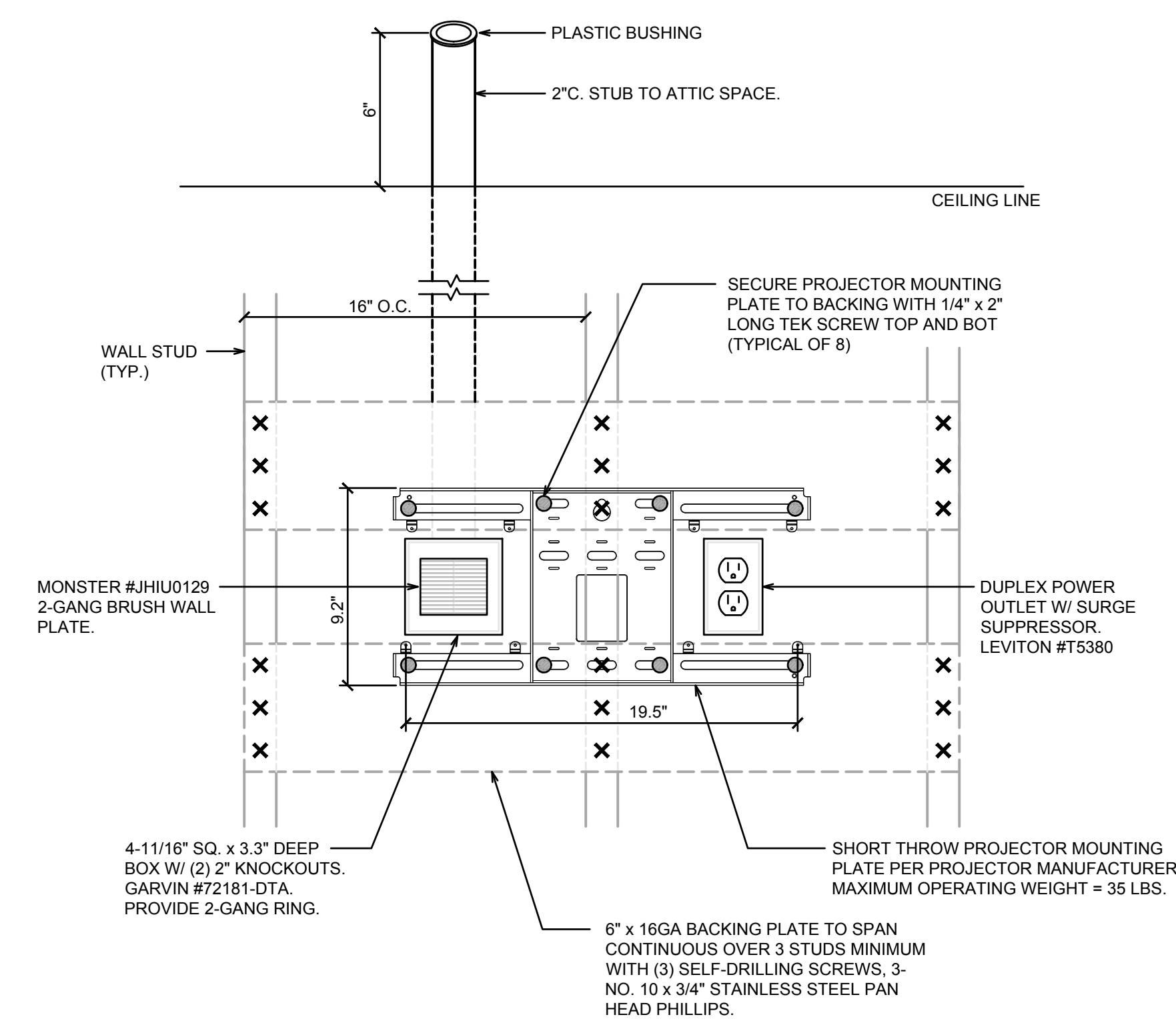
NO SCALE

3



CLOVIS UNIFIED SCHOOL DISTRICT	
PORTABLE ADDITION CLOVIS ONLINE CHARTER ELECTRICAL DETAILS	CONST. DOCUMENTS
DR. BY: EN CH. BY: SD DATE: 04/28/2022 SCALE AS NOTED	E102

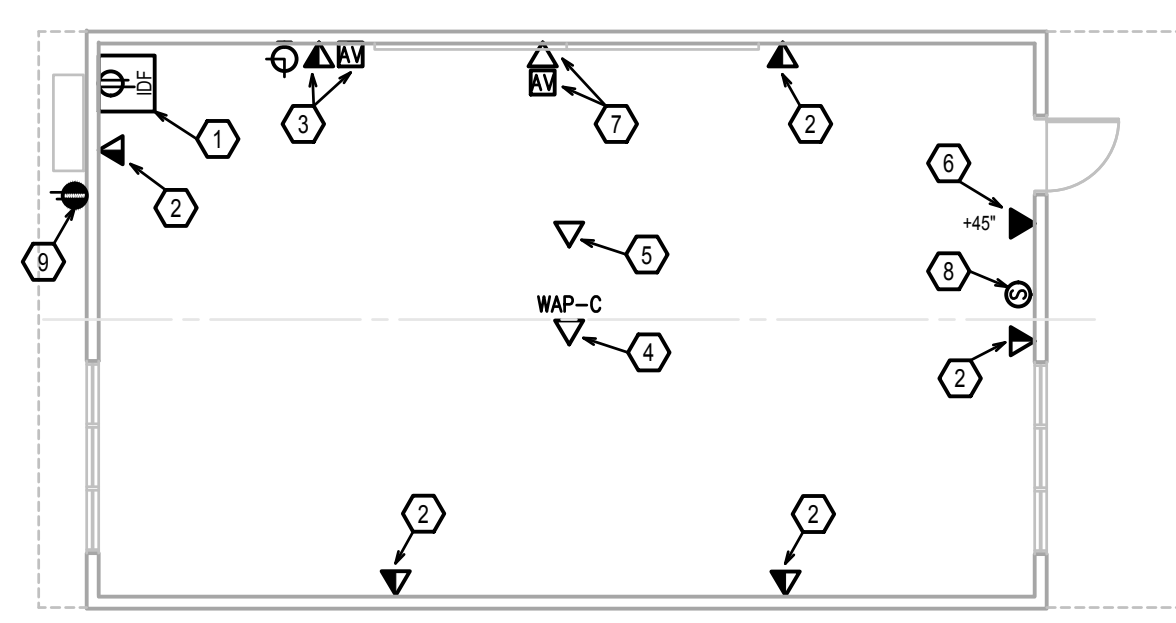




**WALL PROJECTOR MOUNTING DETAIL**

NO SCALE

1



**RELO BUILDING KEY NOTES**

1. PROVIDE IDF AT CORNER ABOVE COUNTER, CATTY CORNER FROM THE DOOR. INSTALL PER DETAIL 5/E102. PROVIDE DUPLEX OUTLET INSIDE CABINET AND DEDICATED 120V 20A CIRCUIT.
2. PROVIDE INDICATED JACKS AT PRE-INSTALLED BOX BY BLDG. MFG'R AND CONNECT TO IDF.
3. PROVIDE INDICATED JACKS FOR TEACHER STATION ON SAME WALL AS DOOR, OPPOSITE SIDE OF ROOM.
4. PROVIDE INDICATED JACKS FOR WIRELESS ACCESS POINT. INSTALL PER DETAIL 7/E102.
5. PROVIDE INDICATED JACKS FOR FUTURE CEILING PROJECTOR. COIL UP 6 FT. EXTRA CABLE WITH JACK ATTACHED AND SECURE IN ATTIC SPACE.
6. PROVIDE WALL MOUNTED VOICE JACK FOR VOIP HANDSET AT PRE-INSTALL BOX BY BLDG. MFG'R, ADJACENT TO DOOR.
7. PROVIDE INDICATED JACKS AND DEVICES FOR WALL MOUNTED PROJECTOR AT PRE-INSTALLED BOXES BY BLDG. MFG'R TO PROVIDE QUAD POWER OUTLET. SEE TEACHING WALL ELEVATION, DETAIL 4/E103. INSTALL PROJECTOR MOUNT PER DETAIL 1/E103.
8. PROVIDE PA SPEAKER AS SHOWN.
9. PROVIDE WEATHERPROOF GFI OUTLET WITH LOCKABLE COVER ADJACENT TO EXISTING HVAC UNIT. CONNECT TO ADJACENT EXISTING POWER OUTLET.

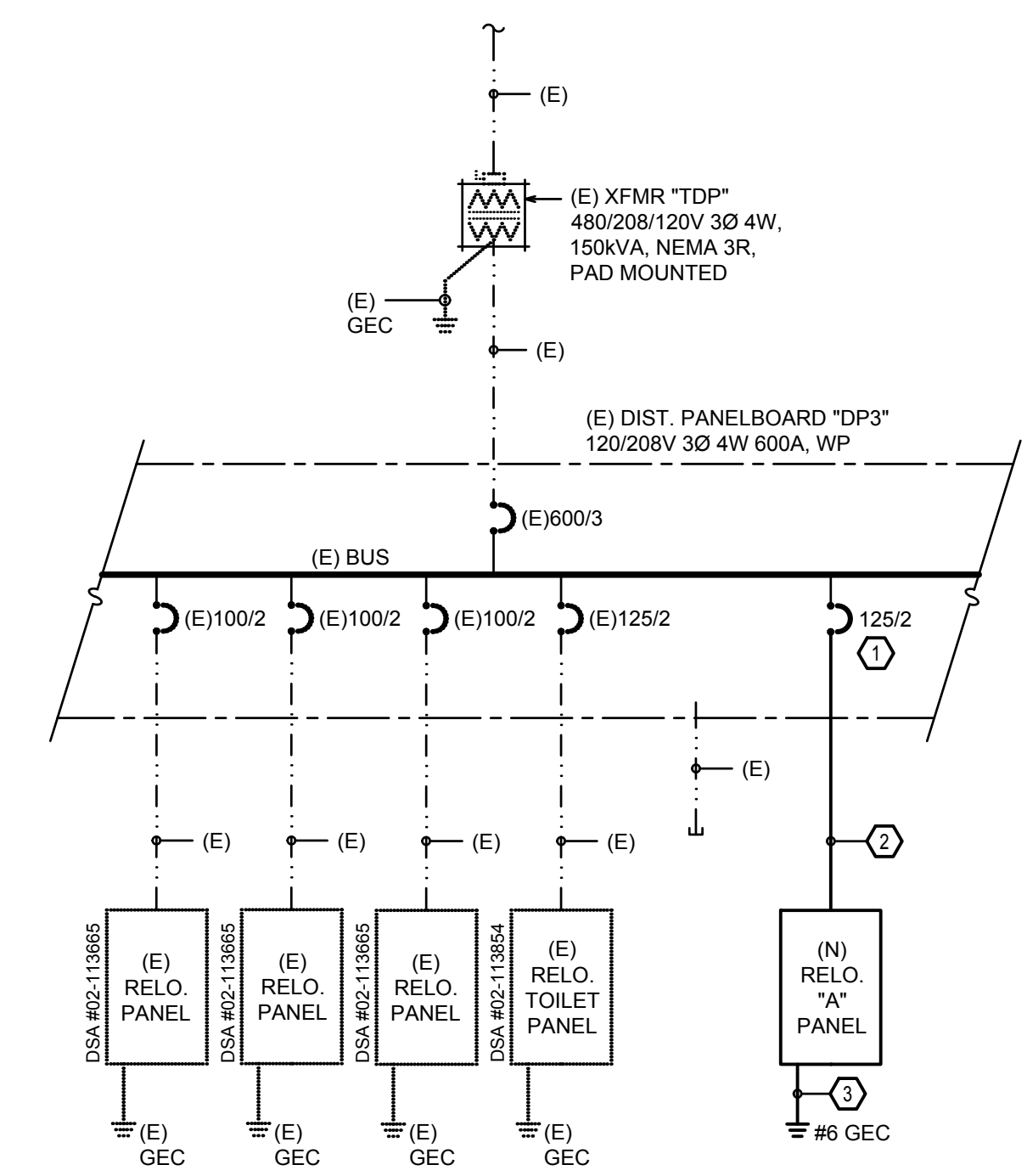
**TYPICAL RELO BUILDING ELECTRICAL PLAN**

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

3

**GENERAL NOTES**

1. ALL WORK SHALL BE IN ACCORDANCE WITH CUSD SPECIFICATIONS. PROVIDE COMPLETE AND OPERATIONAL SYSTEMS. ANY DISCREPANCIES MUST BE ADDRESSED BY RFI PRIOR TO BID.
2. NOTIFY ENGINEER OF ANY CONDITIONS THAT MAY PREVENT INSTALLATION AS SHOWN IN THIS DRAWING.
3. CUSD REQUIRES CONCEALED RACEWAYS AND FLUSH INSTALLATION OF DEVICES IN WALLS WHERE THIS IS PARTICULARLY DIFFICULT, AND WITH APPROVAL FROM DISTRICT, THE CONTRACTOR MAY USE SURFACE RACEWAYS.



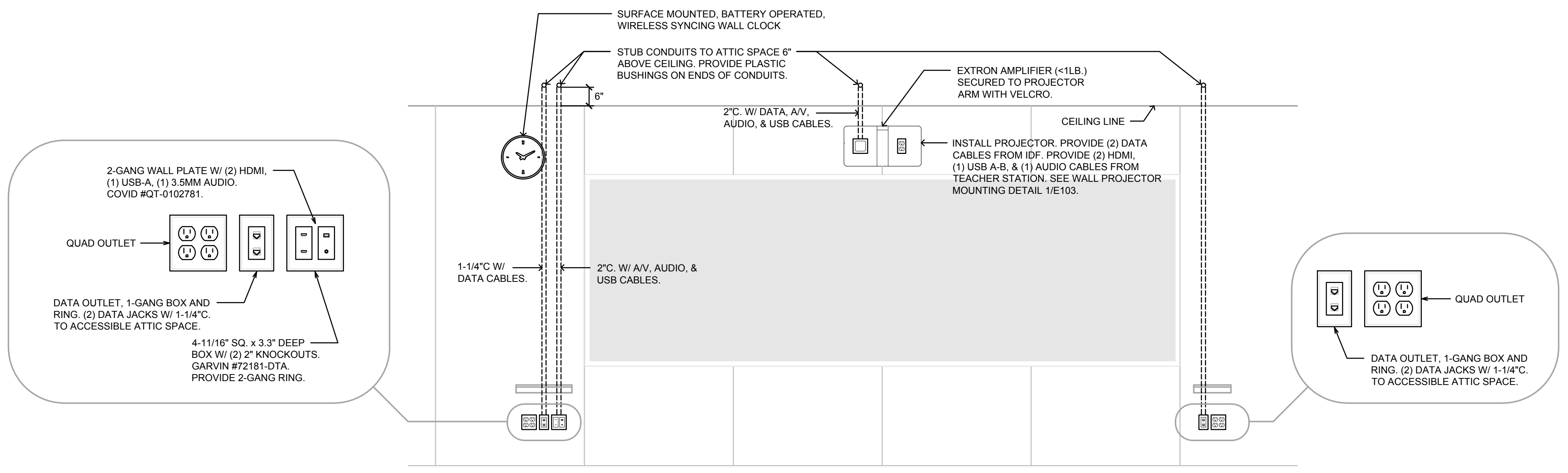
**POWER SINGLE LINE DIAGRAM**

NO SCALE

5

**KEYNOTES**

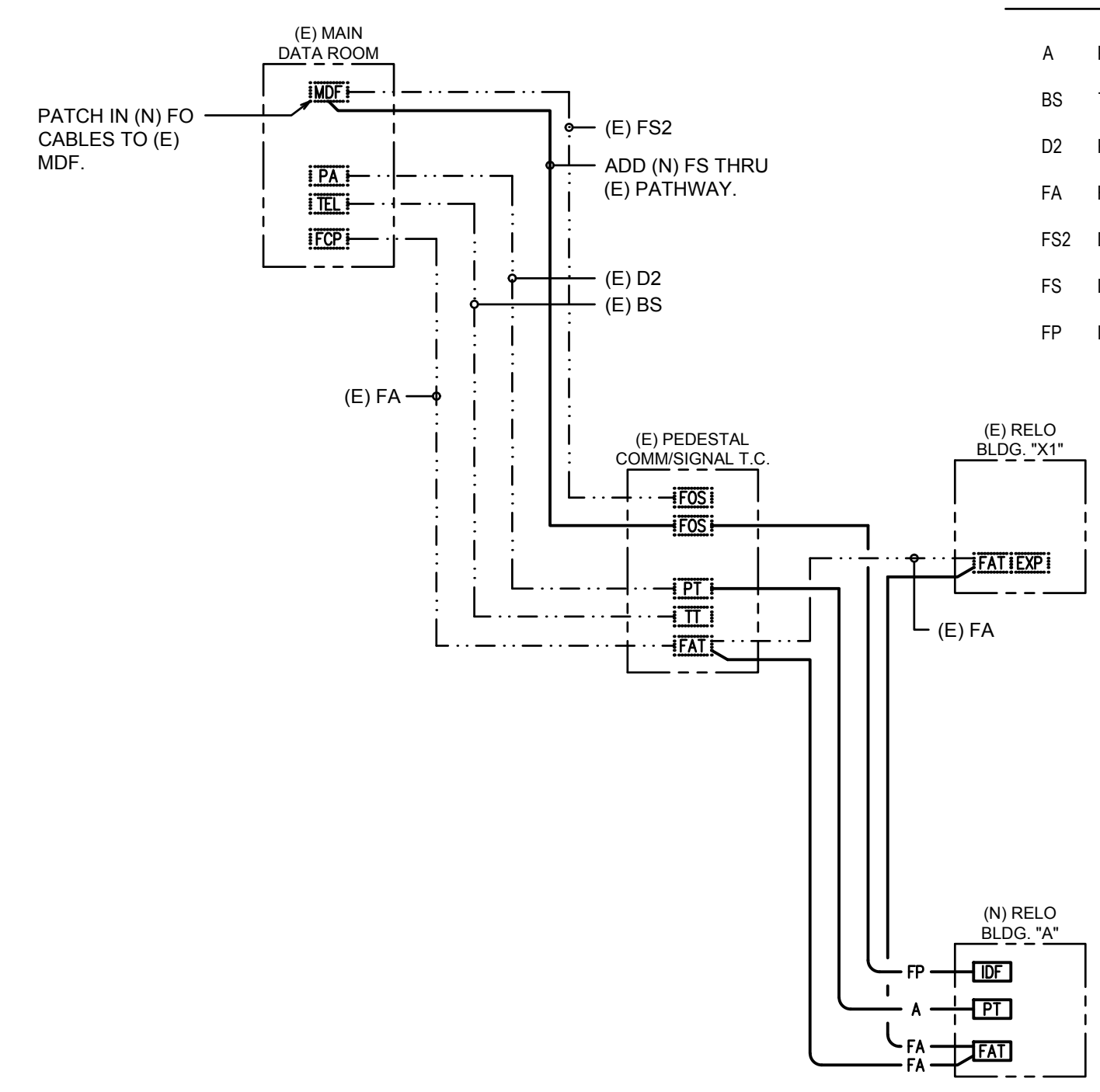
1. ADD NEW CIRCUIT BREAKER TO EXISTING PANELBOARD. PROVIDE ALL REQUIRED MOUNTING HARDWARE.
2. 1 1/2\"/>



**TYPICAL TEACHING WALL ELEVATION**

NO SCALE

4



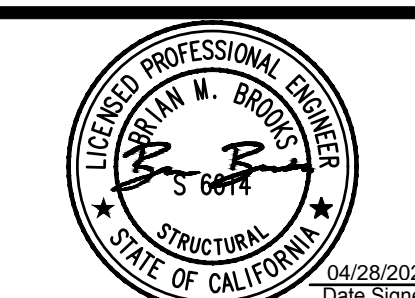
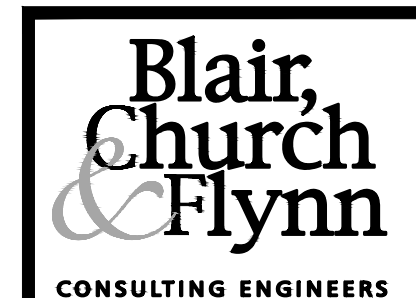
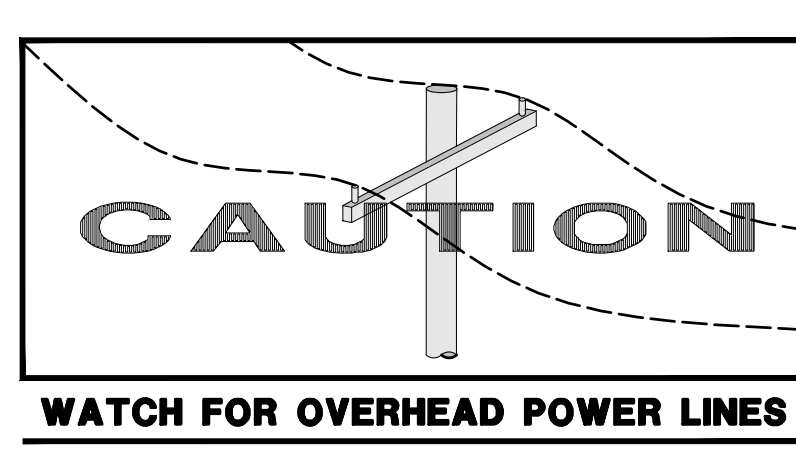
**SITE COMM/SIGNAL LINE DIAGRAM**

NO SCALE

6

**LOW VOLTAGE CABLE SCHEDULE**

- A PA: 4 PAIR PUBLIC ADDRESS CABLE TO MATCH EXISTING SITE CABLE
- BS TEL: 25 PAIR CAT3
- D2 PA: 15 PAIR PUBLIC ADDRESS CABLE TO MATCH EXISTING SITE CABLE
- FA FIRE ALARM: SEE FA SHEETS
- FS2 DATA: 12-STR MM FO CABLE PER SPECS
- FS DATA: 6-STR SM FO CABLE PER SPECS
- FP IDF DATA: 6-STR SM FO CABLE PER SPECS.



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REF. & REV.

<b>CLOVIS UNIFIED SCHOOL DISTRICT</b>	
PORTABLE ADDITION CLOVIS ONLINE CHARTER ELECTRICAL LINE DIAGRAMS	CONST. DOCUMENTS
DR. BY: EN	SCALE AS NOTED
CH. BY: SD	E103
DATE: 04/21/2022	

Drawing: 2. Clovis Unified School District - Online Charter - PORTABLE ADDITION - ELECTRICAL LINE DIAGRAMS - 04/21/2022 - 3:06pm  
 Plot: 04/21/2022 3:06pm



# FIRE ALARM GENERAL NOTES:

- FIRE ALARM SYSTEM: ADDRESSABLE, CLASS B, AUTOMATIC.
- ALL WORK SHALL CONFORM TO THE 2016 EDITION OF NFPA 72, AND THE 2019 EDITION OF CBC, CEC, AND CFC.
- INSTALLATION OF THE FIRE ALARM SYSTEM (FAS) SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATIONS, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.
- UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR. (THE LOCAL FIRE AUTHORITY MAY WITNESS THE TEST).
- A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR THE INSTALLATION.
- ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
- DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
- ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL, OR OTHER LAB TESTING CRITERIA. APPROVED TYPE OF MATERIALS SHALL BE IDENTIFIED WITHIN THE SPECIFICATION WITHIN THE FIRE ALARM SECTION.
- MICROPHONE ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
- WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR ENTIRE LENS WITHIN AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
- WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.
- AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (dBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY SPACE WITHIN A BUILDING THAT MAY BE OCCUPIED AND BE INTELLIGIBLE.
- AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN, PRIOR TO "EVAC" ANNOUNCEMENT. THE CARBON MONOXIDE SIGNAL SHALL SOUND A FOUR-PULSE TEMPORAL PATTERN PER NFPA 720, 5.8.6.5.1.
- THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
- VISUAL DEVICES SHALL NOT EXCEED 2 FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN 1 FLASH PER SECOND. THE DEVICE SHALL HAVE A VISUAL LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
- UNDERGROUND AND EXTERIOR CONDUITS SHALL HAVE WATERTIGHT FITTINGS AND WIRE APPROVED FOR WET LOCATIONS.
- ALL FIRE ALARM WIRING SHALL BE FLP OR FFLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN.
- PER CEC STANDARDS, ALL WIRING SHALL BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE WIRE. ANY CONNECTION SHALL BE BY LUG CONNECTION AT A DEVICE OR AT A FATC TERMINAL BLOCK ONLY. ALL BOXES TO BE SIZED PER CEC.
- SMOKE DETECTORS SHALL NOT BE CLOSER THAN 12" FROM FIRE SPRINKLERS NOR 36" FROM SUPPLY AIR DIFFUSERS. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION, NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
- ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY, OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS, AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS. OWNER STANDARDS MAY BE MORE STRINGENT.
- FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS' SPECIFICATIONS. ANY SINGLE DEVICE SHALL NOT EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
- A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A LOCKING DEVICE WITH RED MARKING PER NFPA 72, SECTION 10.6.5.4 AND 10.6.5.2.3 TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT THE FIRE PANEL/EXTENDERS.
- THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION IN COMPLIANCE WITH NFPA 72, SECTION 7.5.6.
- CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48".
- THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC 901.6.2.

- SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTIONS WITH FINAL TEST. FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATIONS SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UJUS (REMOTE AND PROPRIETARY) BY UNDERWRITERS LABORATORY (UL) OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD FM 3011. A COPY OF ALL DEVICES REPORTED TO THE CENTRAL STATION SHALL BE PROVIDED TO THE OWNER'S ELECTRONICS DEPARTMENT.
  - OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
  - ALL WIRING IS SHOWN DIAGRAMMATICALLY. SUBJECT TO DSA APPROVAL, CONTRACTOR MAY VARY SEQUENCE OF CIRCUITRY; HOWEVER, ALL CIRCUITS SHALL BE CONTINUOUS AND SUPERVISED.
  - ALL CONNECTIONS SHALL BE PROPERLY LABELED BY CONDUCTOR AND SHALL HAVE STA-KON LUG CONNECTORS. PANDUIT TAG (TIE WRAP) SEPARATELY.
  - FIRE ALARM TERMINAL CABINETS SHALL HAVE SUFFICIENT SPACE, TERMINAL BOARDS AND SCREW TERMINAL CONNECTORS TO ALLOW CONNECTION OF ALL CONDUCTORS SHOWN. PROVIDE BARRIER TO SEPARATE FIRE ALARM SYSTEM WHEN TERMINAL CABINET IS SHARED WITH NON-FIRE ALARM SYSTEMS. CONTRACTOR SHALL BE REQUIRED TO SUBMIT WITH HIS OTHER SHOP DRAWINGS DETAILED DRAWINGS OF HIS PROPOSED CONNECTIONS AT EACH FIRE ALARM TERMINAL CABINET PRIOR TO COMMENCING ANY WORK.
  - ALL NAC CIRCUIT CONDUCTORS SHALL BE #12 AWG, STRANDED (19 STRANDS OR LESS) COPPER, UNLESS OTHERWISE NOTED.
  - SET END-OF-LINE RESISTORS IN DISTRIBUTION TERMINAL CABINETS.
  - BATTERIES SHALL BE STAMPED WITH DATE OF MANUFACTURE.
  - INSTALLATION OF FAS EQUIPMENT SHALL BE BY AN AUTHORIZED ENGINEERED SYSTEM DISTRIBUTOR FOR THE EQUIPMENT SPECIFIED BY THE MANUFACTURER FOR SALES, SERVICE, INSTALLATION AND MAINTENANCE. PROVIDE CERTIFICATIONS WITH EQUIPMENT SUBMITTALS. SUBMITTALS BY FIRMS NOT FULFILLING THIS REQUIREMENT WILL BE AUTOMATICALLY REJECTED.
  - THE FAS INSTALLER SHALL BE NICET LEVEL 2 CERTIFIED.
  - THE FAS INSTALLER SHALL PROVIDE ALL FACTORY WARRANTIES TO THE OWNER AT THE CLOSE UP OF THE PROJECT.
  - THE FAS INSTALLER SHALL PROVIDE WRITTEN CERTIFICATION USING NFPA 72 INSPECTION AND TESTING FORMS AND SHALL CERTIFY THAT THE INSTALLATION, TESTING, AND OPERATION CONFORM IN ALL RESPECTS TO THE REQUIREMENTS AS SET FORTH IN TITLE 19 OF THE CALIFORNIA CODE OF REGULATIONS AND PART 3, ARTICLE 760 OF TITLE 24 OF THE C.C.R. AND C.B.C. SECTION 907. THE CONTRACTOR SHALL SUBMIT THE COMPLETED FAS CERTIFICATION AND DESCRIPTION FORM TO DIVISION OF STATE ARCHITECT.
  - INCLUDE ALL DEMOLITION OF EXISTING FIRE ALARM SYSTEM WHETHER SPECIFICALLY SHOWN OR NOT. REMOVE ALL CABLING & UNUSED EXPOSED RACEWAY & OUTLETS. BLANK OFF ALL UNUSED WALL & HARD CEILING OUTLETS. REMOVE ALL UNUSED OUTLETS IN TEE-BAR CEILING & REPLACE ACOUSTIC TILES. RETURN ALL DEVICES, APPLIANCES, & CONTROL PANELS TO OWNER IF REQUESTED BY OWNER DURING CONSTRUCTION.
  - WHEN FIRE ALARM WORK WILL DISABLE PORTIONS OF THE EXISTING FAS, PROVIDE ALL REQUIRED OVERTIME AND FIRE WATCH IN SCOPE OF WORK.
  - WHERE FIRE ALARM DEVICES ARE BEING INSTALLED IN OTHERWISE INACCESSIBLE AREAS, PROVIDE AN ALLOWANCE FOR THE INSTALLATION OF ACCESS PANELS AND ALL WORK ASSOCIATED WITH THE INSTALLATION. THE CONTRACTOR SHALL CUT ALL THE OPENINGS. THE SIZE OF THE ACCESS PANEL SHALL BE DETERMINED BY THE MAN ACCESS REQUIREMENTS. PROVIDE PAINT GRADE ACCESS DOORS AND PAINT TO MATCH THE COLOR & SHEEN OF THE EXISTING CEILING.
  - FIRE ALARM SYSTEM INSPECTION, TESTING, AND MAINTENANCE SHALL COMPLY WITH NFPA 72, CHAPTER 14.
  - PROVIDE FIRE ALARM RECORD DOCUMENTS CABINET NFPA 72, 7.7.2
    - EVERY NEW FIRE ALARM SYSTEM SHALL PROVIDE A DOCUMENTATION CABINET, INSTALLED AT THE SYSTEM CONTROL PANEL OR OTHER APPROVED LOCATION.
    - THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED, "FIRE ALARM SYSTEM RECORD DOCUMENTS".
    - ALL RECORD AND TESTING DOCUMENTATION SHALL BE STORED IN THE CABINET.
    - CONTENTS SHALL BE ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY.
    - WHERE CABINET IS INSTALLED IN A LOCATION OTHER THAN THE SYSTEM CONTROL UNIT, ITS LOCATION SHALL BE IDENTIFIED AT THE SYSTEM CONTROL UNIT.
- PROVIDE SYSTEM DOCUMENTS AS APPLICABLE:
- RECORD DRAWINGS/AS-BUILTS
  - EQUIPMENT CUT SHEETS & CSA SFM LISTINGS
  - ALTERNATIVE MEANS AND METHODS
  - PERFORMANCE BASED DESIGN DOCUMENTATION (NFPA 72, 7.3.7)
  - SYSTEM RECORD OF COMPLETION & ANY SUPPLEMENTAL INSPECTION AND TESTING DOCUMENTATION (NFPA 72, 7.8.2)
  - EMERGENCY RESPONSE PLAN (NFPA 72, 7.3.8)
  - EVALUATION DOCUMENTATION (NFPA 72, 7.3.9)
  - RISK ANALYSIS DOCUMENTATION (NFPA 72, 7.3.6)
  - SOFTWARE & FIRMWARE CONTROL DOCUMENTATION (NFPA 72, 23.2.2)

# FIRE ALARM SYMBOLS SCHEDULE:

SYMBOL	NAME	DESCRIPTION	CSFM LISTING
	(E) FIRE ALARM CONTROL PANEL WITH EVAC	GAMEWELL/FCI #E3 SERIES	7165-1703.0125
	(E) LOCAL OPERATING CONSOLE WITH ANNUNCIATOR & PAGING MICROPHONE	GAMEWELL/FCI #E3-LOC/W/NGA, ASM-16, INI-VGC, INCC-MIC	7165-1703.0125
	(E) CELLULAR NETWORK COMMUNICATOR	HONEYWELL #HWF2-COM	7300-1645.0511
	(E) NAC EXPANDER PANEL 'EXP-P3'	EATON/WHEELLOCK #PS-8	7315-0785.0167
	SMOKE DETECTOR, PHOTOELECTRIC DETECTOR BASE	GAMEWELL/FCI #ASD-PL2F GAMEWELL/FCI #B501	7272-1703.0121 7300-1653.0109
	ATTIC HEAT DETECTOR, 190°F DETECTOR BASE	GAMEWELL/FCI #ATD-HL2F GAMEWELL/FCI #B501	7270-1703.0115 7300-1653.0109
	SPEAKER/VISIBLE NAC DEVICE, WALL MTD (WATTS & cd INDICATED ON PLANS)	EATON/WHEELLOCK #ELSPSTWC	7320-0785.0505
	(E) EXTERIOR SPEAKER, W.P., WALL MTD (WATTS INDICATED ON PLANS)	EATON/WHEELLOCK #ET-1010-R	7320-0785.0105
	(E) EXTERIOR HORN, W.P., WALL MTD	COOPER/WHEELLOCK #H-24WP-R W/ WBB BACKBOX	7125-0785.0131

# FIRE ALARM CABLE SCHEDULE:

SYMBOL	NAME	DESCRIPTION
A	SIGNALING LINE CIRCUIT (SLC) CABLE WEST PENN #D990	16/2 TWISTED PAIR, STRANDED, LOW CAPACITANCE FA POWER LIMITED, RISER CABLE (FPLR)
AW	SIGNALING LINE CIRCUIT (SLC) CABLE, OSP WEST PENN #AQC225	16/2 TWISTED PAIR, STRANDED, AQUASEAL FA POWER LIMITED CABLE (FPL)
B	NOTIFICATION APPLIANCE CKT (NAC) CABLE WEST PENN #9985	12/2 TWISTED PAIR, STRANDED FA POWER LIMITED, RISER CABLE (FPLR)
C	EM. VOICE/ALARM COMM. (EVAC) CABLE WEST PENN #HF995	14/2 SHIELDED TWISTED PAIR, STRANDED FA POWER LIMITED CABLE (FPL)
CW	EM. VOICE/ALARM COMM. (EVAC) CABLE, OSP WEST PENN #AQC295	14/2 SHIELDED TWISTED PAIR, STRANDED, AQUASEAL FA POWER LIMITED CABLE (FPL)
D	INITIATING DEVICE CIRCUIT (IDC) CABLE WEST PENN #9945	14/2 TWISTED PAIR, STRANDED FA POWER LIMITED, RISER CABLE (FPLR)
DW	INITIATING DEVICE CKT (IDC) CABLE, OSP WEST PENN #AQC226	14/2 TWISTED PAIR, STRANDED, AQUASEAL FA POWER LIMITED CABLE (FPL)
G	POWER CABLE WEST PENN #9985	12/2 TWISTED PAIR, STRANDED FA POWER LIMITED, RISER CABLE (FPLR)

## BATTERY CALCULATION

F.A. Control Panel (E) 'FCP'

### POWER REQUIREMENTS

	CURRENT [A]	
	SUPERVISORY	ALARM
(E) ILHMB-E3 (SLCs at max. output)	0.0810	0.1500
(E) DACT-E3 (Communicator)	0.0180	0.0180
(E) LCD-E3 (Panel Display)	0.0240	0.2800
(E) ASM-16 (Panel Switches)	0.0110	0.1550
(E) PM-9 (Power Supply)	0.0500	0.0500
(E) RPT-E3-UTP (Network Repeater)	0.0160	0.0170
(E) INI-VG (Voice Gateway)	0.1500	0.1500
(E) AM-50-70 (Amp)	0.0490	2.3000
(E) INCC-MIC (Paging Microphone)	0.0010	0.0010
(E) NGA (Annunciator)	0.2000	0.2000
(E) NAC Circuit 1	-	2.0000
(E) AUDIO Circuit 1, (E)+(N) devices	-	0.0566
<b>TOTALS</b>	<b>0.6000</b>	<b>5.3776</b>

### BATTERY CAPACITY

SUPERVISORY POWER (24 HOURS)	= 24 Hr * 0.6A	= 14.400 Ahr
ALARM POWER (15 MINUTES)	= 0.25 Hr * 5.3776A	= 1.344 Ahr
<b>TOTAL POWER REQUIREMENT</b>		<b>15.744 Ahr</b>
<b>MINIMUM BATTERY CAPACITY (includes 25% safety factor)</b>		<b>20 Ahr</b>

## VOICE EVACUATION SPEAKER VOLTAGE DROP

Volt Drop Common Parameters

Type	Watts		CIRCUIT LENGTH		Total Watts	Max Length	Actual Length	
	1/8 W	1/4 W	1W	2W				
INDOOR	1/8 W	1/4 W	1W	2W	1W	2W	4W	8W
OUTDOOR					1W	2W	4W	8W
<b>a1 (E)+(N)</b>					4	8762	1201	

## BATTERY CALCULATION

(E) NAC Expander 'EXP-P3'

### POWER REQUIREMENTS

	CURRENT [A]	
	SUPERVISORY	ALARM
(E) Panel Overhead	0.129	0.129
(E) NAC Circuit 1	-	0.060
NAC Circuit 2	-	0.060
<b>TOTALS</b>	<b>0.129</b>	<b>0.189</b>

### BATTERY CAPACITY

SUPERVISORY POWER (24 HOURS)	= 24 Hr * 0.129A	= 3.096 Ahr
ALARM POWER (15 MINUTES)	= 0.25 Hr * 0.189A	= 0.047 Ahr
<b>TOTAL POWER REQUIREMENT</b>		<b>3.143 Ahr</b>
<b>MINIMUM BATTERY CAPACITY (includes 25% safety factor)</b>		<b>7 Ahr</b>

## VOLTAGE DROP CALCULATION

NAC Circuit 'n2'

$VD = \text{Voltage Drop [V]}$   
 $I = \text{Current [A]} (0.06A)$   
 $K = 12.9 \text{ (Copper Constant)}$   
 $L = \text{Distance to Load [ft.]} (263')$   
 $CM = \text{Circular Mils (\#12 AWG = 6530)}$   
 $V = \text{Voltage [V]} (24VDC)$   
 $VD = \frac{K \cdot I \cdot 2L}{CM} = \frac{12.9 \cdot 0.06 \cdot 2 \cdot 263}{6530} = 0.062 \text{ V}$   
 $VD\% = \frac{VD}{24} = 0.3\%$

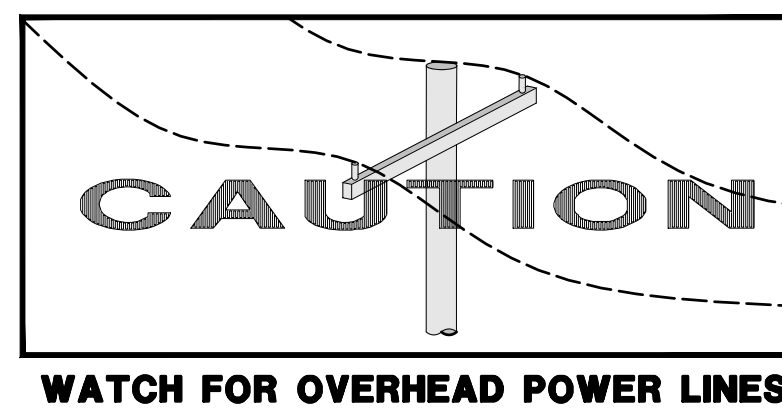
ACTION	INITIATION CONDITION	SMOKE, HEAT DETECTOR	POWER LOSS, SHORT CIRCUIT, GROUND FAULT
ANNUNCIATE TROUBLE			●
ANNUNCIATE ALARM		●	
INITIATE NOTIFICATION APPLIANCES		●	
INITIATE EVAC APPLIANCES		●	
TRANSMIT TO CENTRAL STATION		●	●

## FIRE ALARM SEQUENCE OF OPERATION MATRIX

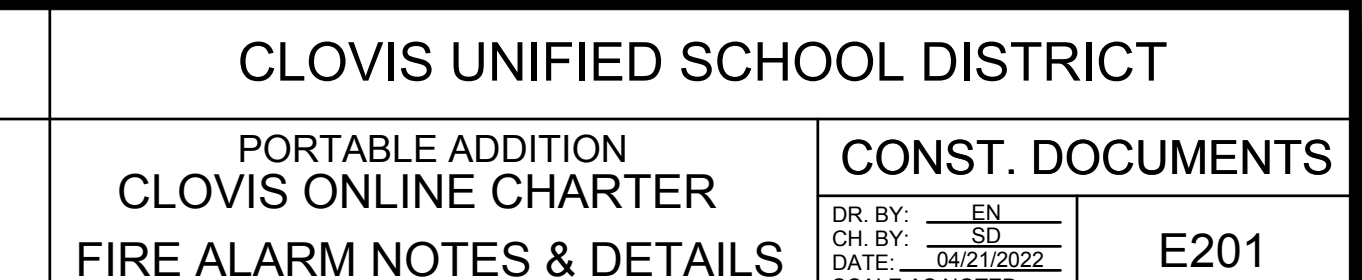
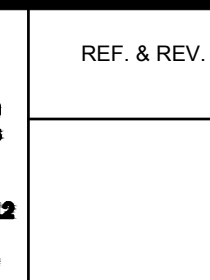
NO SCALE

## FIRE ALARM CALCULATIONS

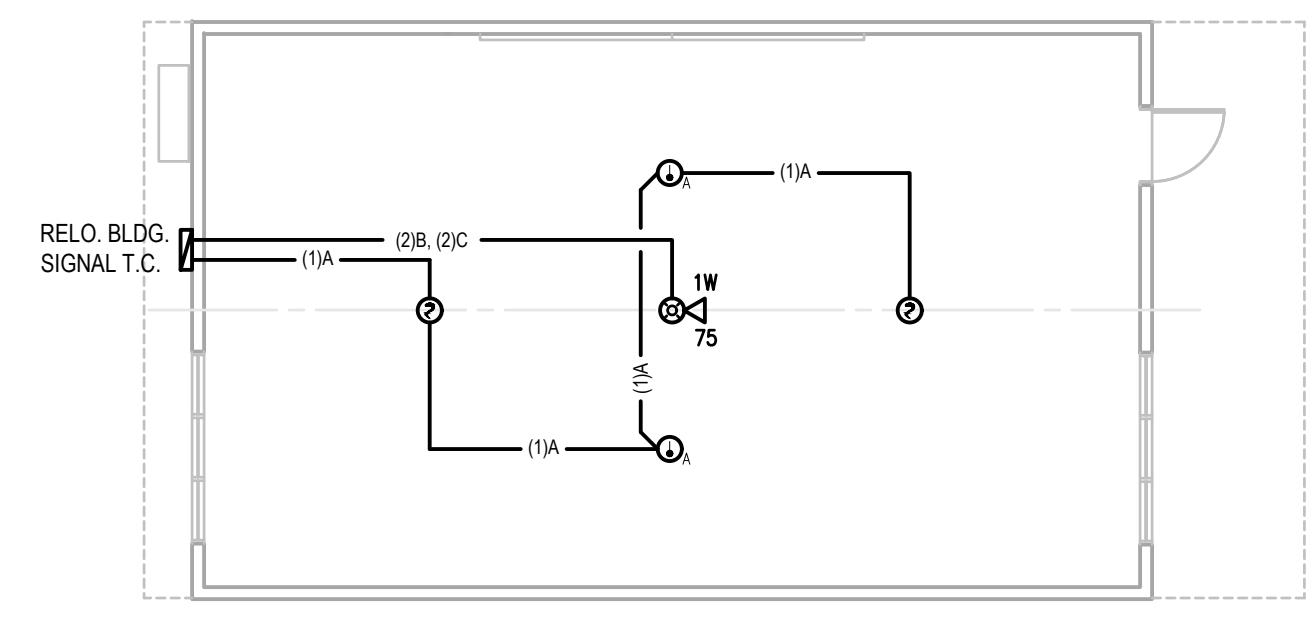
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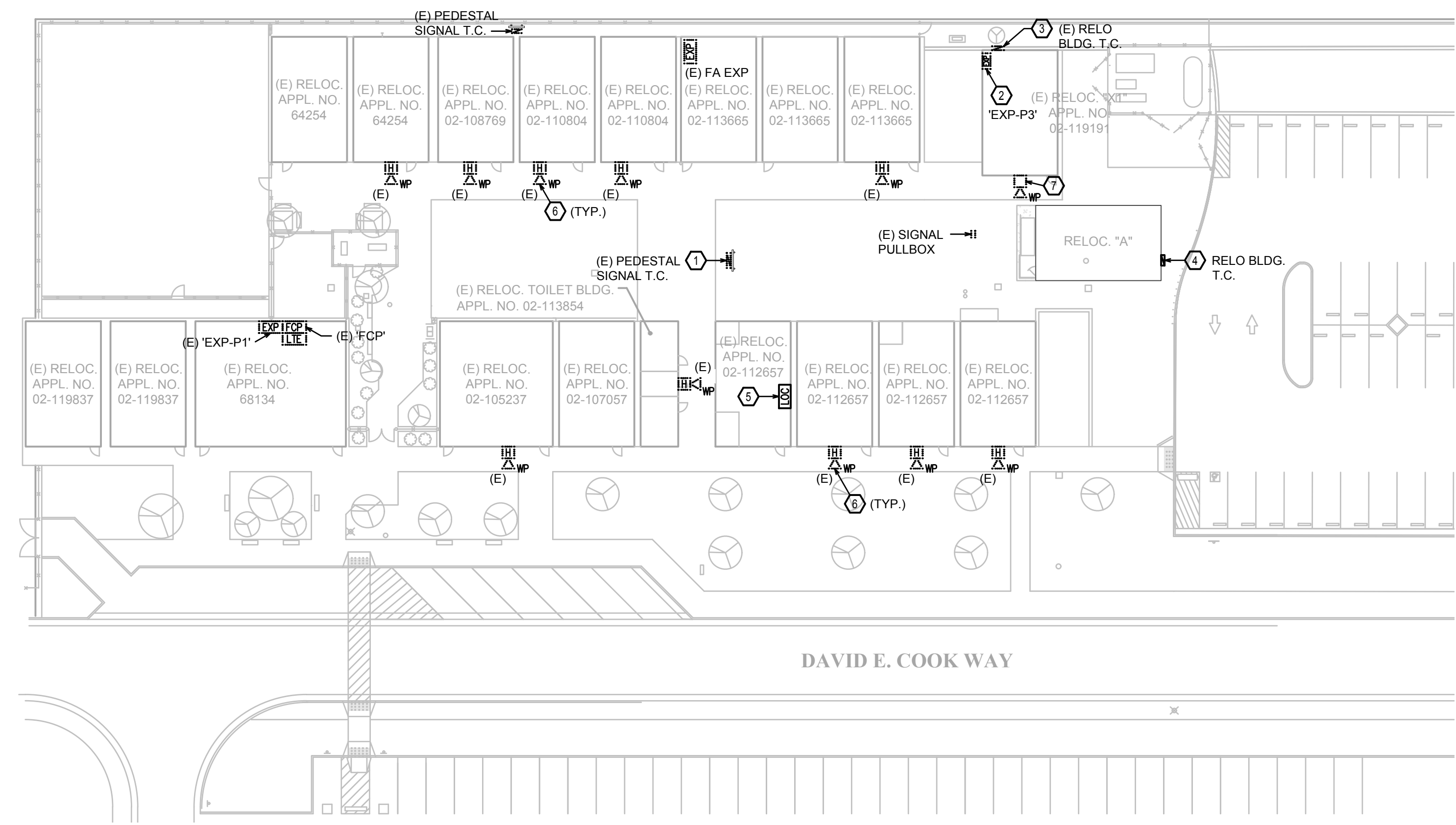




**TYPICAL RELO BUILDING  
 FIRE ALARM PLAN**

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

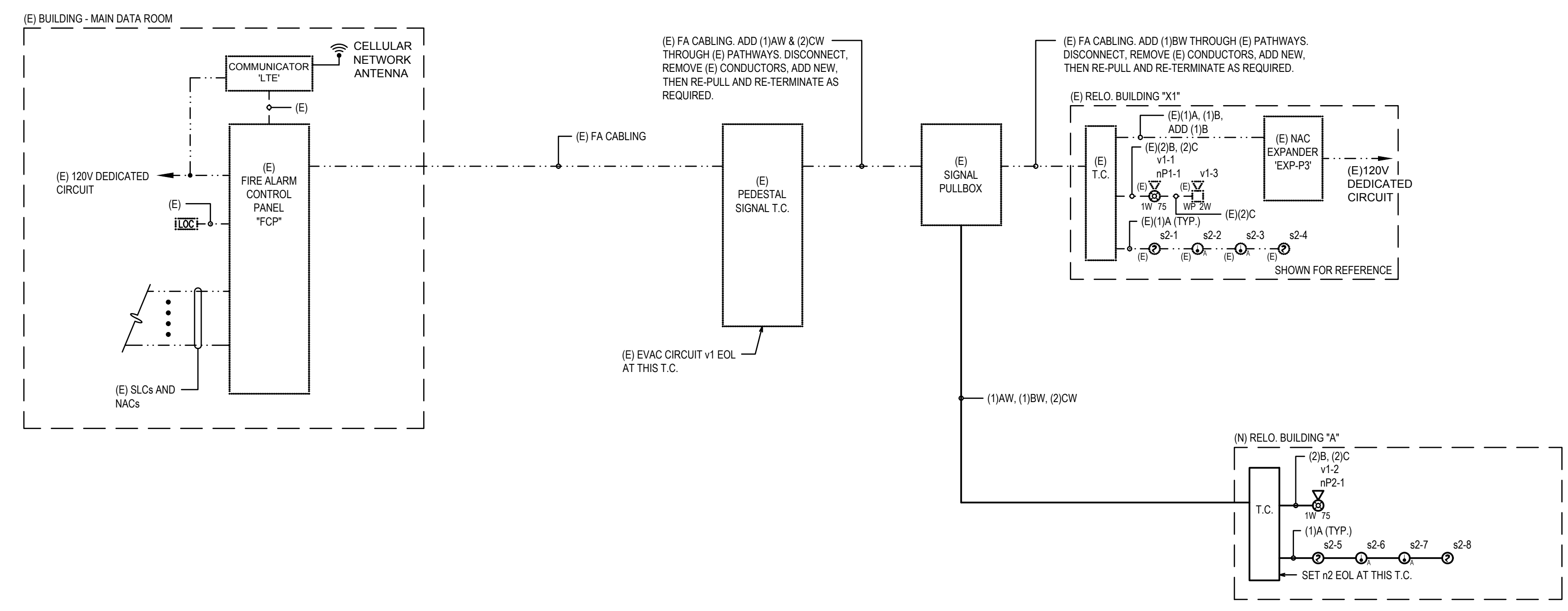
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**FIRE ALARM REFERENCE SITE PLAN**  
 SCALE: 1" = 30'-0"

**KEYNOTES**

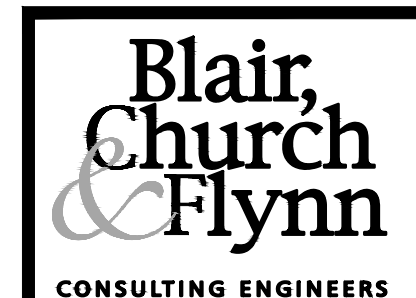
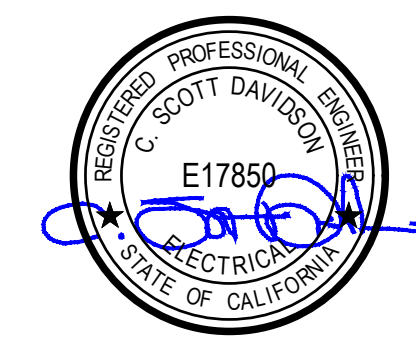
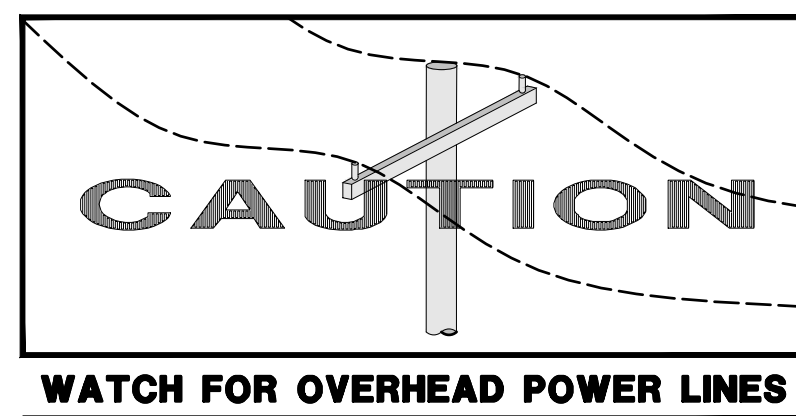
1. EXISTING PEDESTAL MOUNTED WEATHERPROOF COMM/SIGNAL TERMINAL CABINET. CONNECT FA PER FIRE ALARM SINGLE LINE DIAGRAM 2/E202.
2. EXISTING FA EXPANDER PANEL "EXP-P3", CONNECT FA PER FIRE ALARM SINGLE LINE DIAGRAM 2/E202.
3. EXISTING RELO BUILDING SIGNAL TERMINAL CABINET. CONNECT FA PER FIRE ALARM SINGLE LINE DIAGRAM 2/E202.
4. RELO BUILDING SIGNAL TERMINAL CABINET. CONNECT FA PER FIRE ALARM SINGLE LINE DIAGRAM 2/E202.
5. EXISTING FA LOCAL OPERATING CONSOLE WITH ANNUNCIATOR AND PAGING MICROPHONE AT ADMIN OFFICE.
6. EXISTING EXTERIOR HORN LOCATION, SHOWN FOR REFERENCE ONLY.
7. EXISTING EXTERIOR SPEAKER LOCATION, SHOWN FOR REFERENCE ONLY.



**FIRE ALARM SINGLE LINE DIAGRAM**

NO SCALE

2

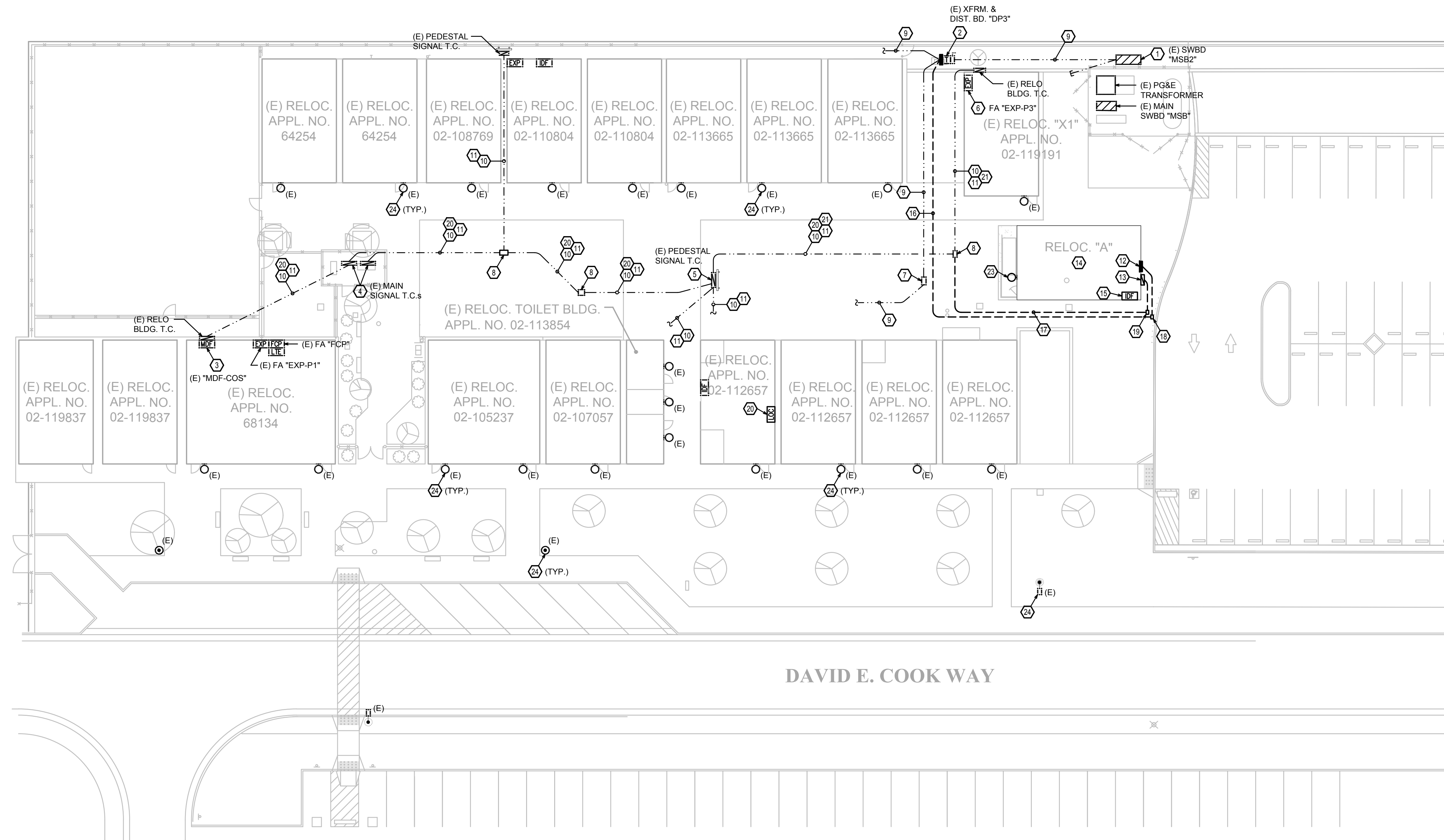


CONSULTANT  
 Blair, Church & Flynn  
 Consulting Engineers  
 401 Clovis Avenue,  
 Suite 500  
 Clovis, California 93612  
 Tel (559) 326-6400  
 Fax (559) 326-6900

REF. & REV.

<b>CLOVIS UNIFIED SCHOOL DISTRICT</b>	
PORTABLE ADDITION CLOVIS ONLINE CHARTER FIRE ALARM SITE & BLDG. PLANS	CONST. DOCUMENTS E202
DR. BY: EN	CH. BY: SD
DATE: 04/21/2022	SCALE AS NOTED

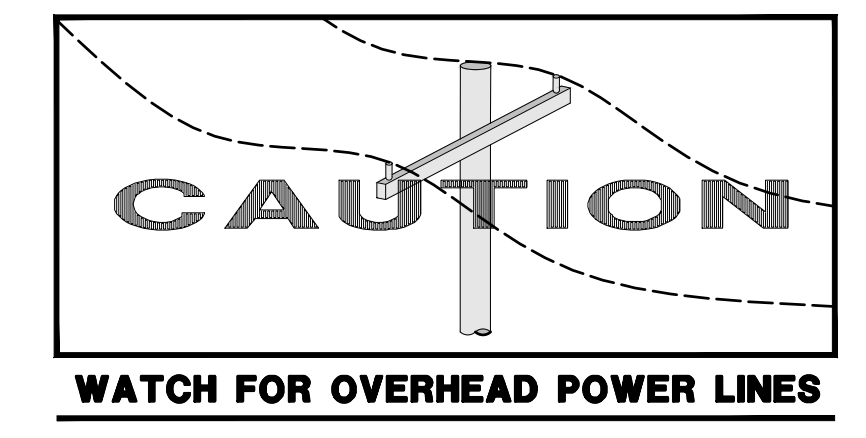




KEYNOTES

1. EXISTING SWITCHBOARD "MSB2".
2. EXISTING PAD MOUNTED TRANSFORMER AND DISTRIBUTION BOARD "DP3". SEE POWER SINGLE LINE DIAGRAM 5/E103.
3. EXISTING LOW VOLTAGE SYSTEMS HEAD ENDS.
4. EXISTING MAIN SIGNAL TERMINAL CABINETS.
5. EXISTING PEDESTAL MOUNTED WEATHERPROOF COMM/SIGNAL TERMINAL CABINET. CONNECT SIGNAL AND DATA. SEE SITE COMM/SIGNAL LINE DIAGRAM 6/E103. CONNECT FA. SEE FIRE ALARM SHEETS.
6. EXISTING FA EXPANDER "EXP-P3". CONNECT FA. SEE FIRE ALARM SHEETS.
7. EXISTING POWER PULL BOX.
8. EXISTING SIGNAL PULL BOX.
9. EXISTING POWER FEEDERS.
10. EXISTING LOW VOLTAGE SYSTEMS CONDUITS AND CABLING.
11. EXISTING FA CONDUITS AND CABLING.
12. CONNECT POWER TO RELO BUILDING PANELBOARD PRE-INSTALLED BY BUILDING MANUFACTURER AND GROUND PER DETAIL 1/E102 AND 2/E102. BOND ALL BUILDING MODULES TOGETHER PER DETAIL 3/E102.
13. RELO. SIGNAL T.C. - NEMA 3R HINGED AND LOCKABLE ENCLOSURE AT 4'-6" TO TOP. INSTALL WIRE GUTTER AT ATTIC HEIGHT WITH (2) 2" & (1) 1" C. EXTERIOR RISERS AND NIPPLES INTO ACCESSIBLE ATTIC; PAINT TO MATCH BUILDING. INSTALL PATCH PANELS AND MAKE TERMINATIONS AT INTERIOR. SEE SITE COMM/SIGNAL LINE DIAGRAM 6/E103 AND DETAIL 4/E102.
14. ASSEMBLE RELO. BUILDING. RECONNECT POWER AND LIGHTING SYSTEMS SEPARATED PRIOR TO TRANSPORT. PROVIDE INTERIOR ELECTRICAL IMPROVEMENTS PER DETAIL 3/E103. PROVIDE FIRE ALARM SYSTEM PER FIRE ALARM SHEETS.
15. PROVIDE IDF PER DETAIL 5/E102 AND SPECIFICATIONS. INSTALL OUTLET AT INTERIOR AND CONNECT TO DEDICATED 120V 20A CIRCUIT IN RELO BUILDING PANELBOARD.
16. 1 1/2" C. POWER FEEDER TO RELO BUILDING PANELBOARD. SEE POWER SINGLE LINE DIAGRAM 5/E103.
17. 2" C. FIBER, 2" C. SIGNAL, 1" C. FA. PROVIDE CABLING AND CONNECTION PER SITE COMM/SIGNAL LINE DIAGRAM 4/E-3.
18. B1013 H20 RATED PULL BOX LABELED "POWER" PER DETAIL 8/E102.
19. B1013 H20 RATED PULL BOX LABELED "SIGNAL" PER DETAIL 8/E102.
20. PULL NEW FIBER OPTIC CABLE THROUGH EXISTING CONDUIT.
21. PULL NEW FA CABLE THROUGH EXISTING CONDUIT. SEE FIRE ALARM SHEETS.
22. EXISTING FIRE ALARM LOCAL OPERATING CONSOLE WITH ANNUNCIATOR AND MICROPHONE AT ADMIN OFFICE.
23. EXISTING EXTERIOR LIGHT PRE-INSTALLED BY BUILDING MANUFACTURER.
24. EXISTING AREA LIGHTING.

NORTH  
**ELECTRICAL SITE PLAN**  
SCALE: 1" = 20'-0"

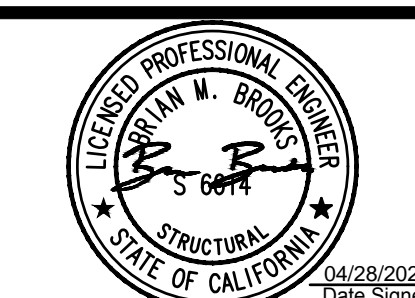


**811**  
Know what's below.  
Call before you dig.



**HD**  
Hardin-Davidson  
Engineering  
356 Pollasky Ave.  
Suite 200  
Clovis, CA 93612  
559.323.4995 tel  
559.323.4928 fax

**Blair, Church & Flynn**  
CONSULTING ENGINEERS



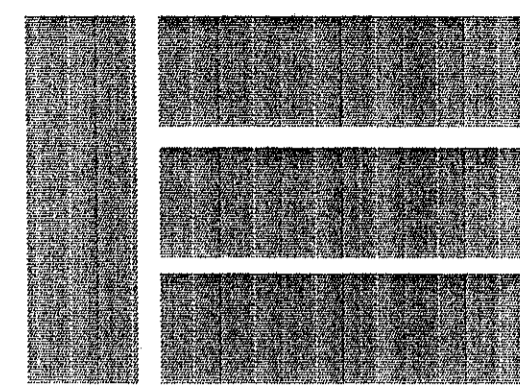
CONSULTANT  
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Consulting Engineers  
401 Clovis Avenue,  
Suite 200  
Clovis, California 93612  
Tel (559) 326-1400  
Fax (559) 326-1990

REF. & REV.

<b>CLOVIS UNIFIED SCHOOL DISTRICT</b>	
PORTABLE ADDITION CLOVIS ONLINE CHARTER ELECTRICAL SITE PLAN	CONST. DOCUMENTS
DR. BY: EN CH. BY: SD DATE: 04/21/2022 SCALE AS NOTED	E301

Drawing: 2.0000-Blair, Church & Flynn-04/21/2022 - Clovis Online Charter - PORTABLE ADDITION - ELECTRICAL - E301 - 3/8/2022  
 Plot: 04/21/2022 3:09pm





# ENVIROPLEX, INC.

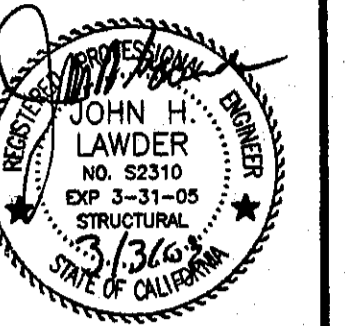
## RIGID STEELFRAME MODULAR BUILDING APPLICABLE TO RELOCATABLE CLASSROOMS (100) 24' x 40' MOBILE MODULAR MANAGEMENT CORP. STOCKPILE

SERIAL No.

4944-45, 4960-61, 5008-5009, 6360-61, 6164-75, 6238-47, 6350-59, 5970-71, 6362-6509

(REF: # 02-101236)

JH Lawder, Inc.  
Structural Engineers  
717 16th Street, Mendota, CA 95354  
(209) 831-1143 FAX (209) 821-1188



**ENVIROPLEX, INC.**  
4777 E. CARPENTER ROAD STOCKTON, CA. 95215  
**(100) 24' x 40' RELOCATABLE CLASSROOM  
MOBILE MODULAR MANAGEMENT CORP.  
STOCKPILE**

- AT ABOVE FINISHED FLOOR
- ALUM ALUMINUM
- AMP AMPERES
- APA AMERICAN PLYWOOD ASSOCIATION
- ASTM AMERICAN SOCIETY OF TESTING MATERIALS
- AWPB AMERICAN WOOD PRODUCTS BUREAU
- BEAM
- BTU BRITISH THERMAL UNITS
- CG CENTER TO CENTER
- C.B.C. CALIFORNIA BUILDING CODE
- C.E.C. CALIFORNIA ELECTRICAL CODE
- CIRCUIT CENTER LINE
- CLG CEILING
- CLR CLEAR
- CONT CONTINUOUS
- CP COMPLETE PENETRATION
- DBL DOUBLE
- DF DOUGLAS FIR - LARCH
- DNK DIAMETER
- DOW DOWEL
- D.S.A. DIVISION OF THE STATE ARCHITECT
- DRYING
- EACH EACH
- ELEC ELECTRICAL
- ENG ENG
- EQ EQ
- EQ. NAIL
- EW EACH WAY
- EXP EXPOSURE
- EXT EXT
- FLR FLOOR
- FLNG FLANGE
- FLR FLOOR
- FLRG FLOORING
- FT FT
- FOOTING
- F.R.P. FIBERGLASS REINFORCED PANEL
- YIELD STRENGTH (STEEL)
- GA GAUGE
- GALV GALVANIZED
- HOLD DOWN
- HDR HEADER
- HWWR HARDWARE
- H.M. HOLLOW METAL
- H.F. HEM FIR
- HR HOUR
- H.S.B. HIGH STRENGTH BOLTS
- HEATING VENTILATION AIR CONDITIONING
- INT INTERIOR
- J-BOX JUNCTION BOX
- KW KILOWATT
- LE LEAD
- MAX. MAXIMUM
- M.B. #307 MACHINE BOLTS
- MFR MANUFACTURER
- MIN. MINIMUM
- MISC. MISCELLANEOUS
- MOD MODULE
- METAL
- NOT IN CONTRACT
- NO. NUMBER
- ON CENTER
- OPT. OPTIONAL
- PLYWOOD
- P.S.I. POUNDS PER SQUARE INCH
- P.S.F. POUNDS PER SQUARE FOOT
- PRESSURE TREATED
- R-11 REQUIRED ROOFING THERMAL RATING
- ROOFING
- S.D.S. SELF DRILLING SCREW(S)
- SHG SHEATHING
- S.M.S. SHEET METAL SCREW(S)
- STR. STRUCTURAL
- SQUARE
- SCG SLOTTED AND GROOVE
- TEK TEK SCREWS
- TUBE STEEL
- TYP. TYPICAL
- U.B.C. UNIFORM BUILDING CODE
- VOLTS
- WATS WATTS
- W.I.C. WOODWORK INSTITUTE OF CALIFORNIA
- WITH
- W/O WITHOUT
- Ø DIAMETER
- 1Ø SINGLE PHASE
- 3Ø THREE PHASE

TESTING LABORATORY: \_\_\_\_\_ DATE: \_\_\_\_\_

NAME: \_\_\_\_\_

DISTRICT/OWNER: \_\_\_\_\_

DIVISION - FILE NO. \_\_\_\_\_ APPLICATION NO. \_\_\_\_\_

ARCHITECT: \_\_\_\_\_

STRUCTURAL ENGINEER: \_\_\_\_\_

THE FOLLOWING TESTS AND INSPECTIONS, AS CHECKED, WILL BE REQUIRED AS DETAILED IN APPLICATION SPECIFICATIONS.

TESTS AND INSPECTIONS	CONCRETE	GROUT	MORTAR
COMPACTED FILL			
FILL MATERIAL, ACCEPTANCE TESTS			
COMPACTION CONTROL, CONTINUOUS			
COMPACTION TESTS ONLY AS ORDERED	X		
BEARING CAPACITY OF COMPACTED FILL	X		
REINFORCING STEEL			
SAMPLE AND TEST BAR STEEL			
SAMPLE AND TEST MESH	X		
INSPECT PLACING AT JOB			
STRUCTURAL STEEL			
X SAMPLE AND TEST AS DETAILED BELOW			
X SHOP FABRICATION INSPECTION			
FIELD ERECTION INSPECTION			
X INSPECTION OF WELDS-SHOP			
INSPECTION OF WELDS-FIELD			
INSPECTION OF RIVETING OR BOLTING-SHOP			
INSPECTION OF RIVETING OR BOLTING-FIELD			
SAMPLE AND TEST HIGH STRENGTH BOLTS AND WASHERS			
BRICK AND BLOCK			
SAMPLE AND TEST			
TEST ONLY			
INSPECTION OF PLACING			
CORE DRILL SAMPLES			
OTHER TESTS & INSPECTIONS			
1. GENERAL INPLANT INSPECTION			
2. ELECTRICAL GROUND TEST IN FIELD			
3. TEST ELECTRICAL GROUNDING			

LIST OF STRUCTURAL STEEL MEMBERS TO BE TESTED

PROVIDE MILL CERTIFICATES OR TEST PER C.B.C. SECTION 2231A  
STRUCTURAL TUBING T55x5x3/16  
LIGHT GAUGE STEEL SECTIONS & PLATES

DISTRIBUTION

- ( ) ENVIROPLEX, INC.
- ( ) DIVISION OF STATE ARCHITECT
- ( ) DISTRICT/OWNER
- ( ) INSPECTOR
- ( ) ARCHITECT

AUTHORIZATION SIGNATURE \_\_\_\_\_

REMARKS: \_\_\_\_\_

A0-COVER SHEET-ABBREVIATIONS-SHEET INDEX

A1-FLOOR PLAN-EXTERIOR & INTERIOR ELEVATIONS-MATERIAL SPECIFICATIONS-GENERAL NOTES

A2-MECHANICAL & REFLECTED CEILING PLANS-HVAC & WALL SECTION-DETAILS-HVAC SPECIFICATIONS

A3-ELECTRICAL POWER & SIGNAL PLAN-ELECTRICAL LIGHTING PLAN-DETAILS-ELECTRICAL NOTES

A4-SECTIONS-DETAILS

A5-DETAILS

S1W50-50 PSF WOOD FOUNDATION PLAN-FOOTING DETAILS-NOTES

S1W50A-50 PSF WOOD FOUNDATION PLAN-48'x40' 50 PSF WOOD FOUNDATION PLAN

S1W70-70 PSF WOOD FOUNDATION PLAN-FOOTING DETAILS-NOTES

S1W70A-70 PSF WOOD FOUNDATION PLAN-48'x40' 70 PSF WOOD FOUNDATION PLAN

S1W125-125 PSF WOOD FOUNDATION PLAN-FOOTING DETAILS-NOTES

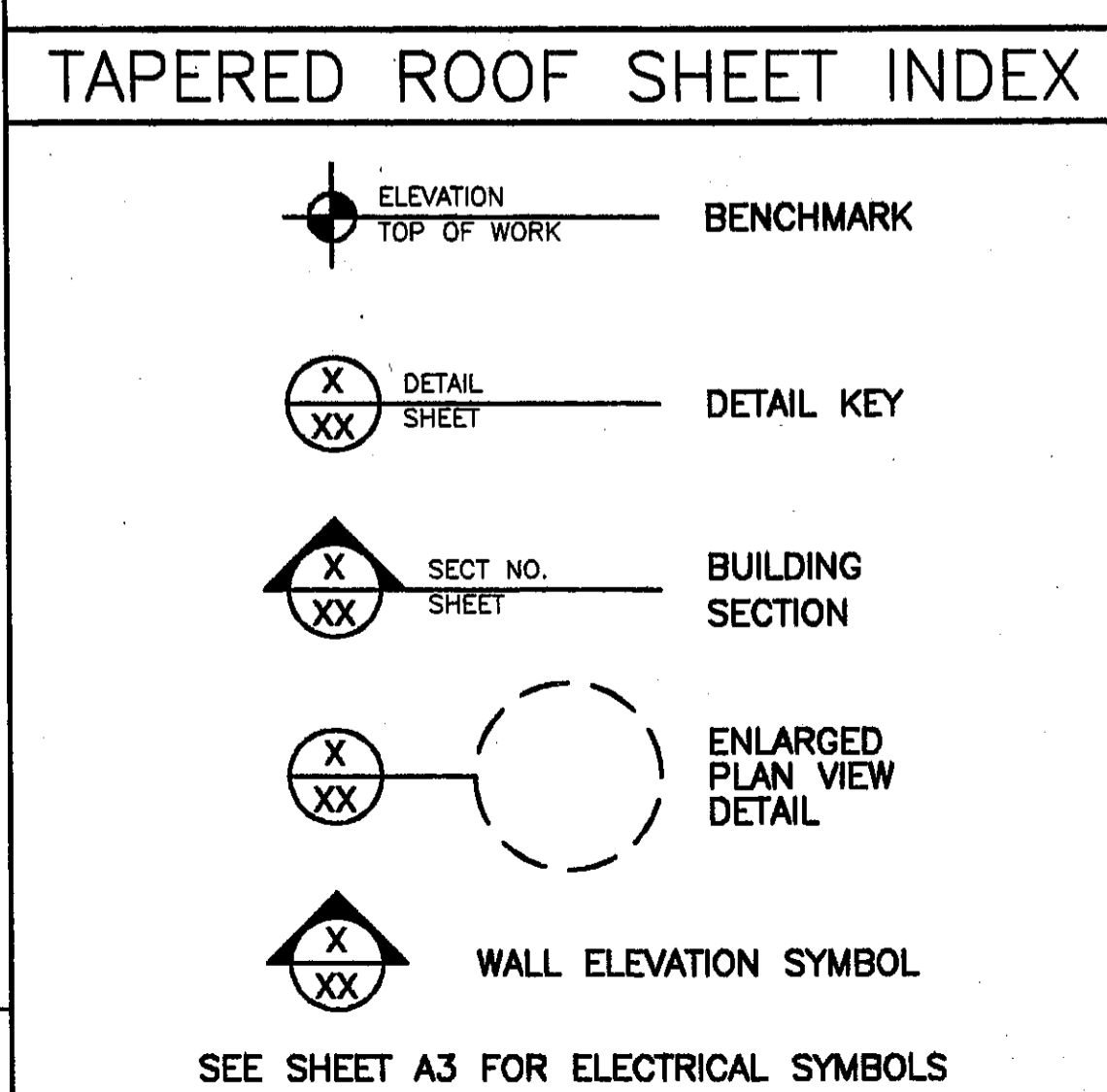
S1W125A-125 PSF WOOD FOUNDATION PLAN-48'x40' 125 PSF WOOD FOUNDATION PLAN

S2A-ROOF-CEILING-FLOOR FRAMING PLANS-STRUCTURAL STEEL PROPERTIES-NOTES

S3-SECTION-WALL FRAMING ELEVATIONS-WALLING DETAIL-END FRAME ELEVATIONS-WALLING SCHEDULE

S4-CONNECTION DETAILS

S5R-HANDICAP ACCESS RAMP



APPLICABLE CODES:

1998 CALIFORNIA BUILDING CODE, PART 2, TITLE 24 (1997 UNIFORM BUILDING CODE AND CALIFORNIA AMENDMENTS)

1998 CALIFORNIA ELECTRICAL CODE, PART 3 TITLE 24 (1996 NATIONAL ELECTRICAL CODE AND CALIFORNIA AMENDMENTS)

1998 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 (1997 UNIFORM MECHANICAL CODE AND CALIFORNIA AMENDMENTS)

1998 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 (1997 UNIFORM PLUMBING CODE AND CALIFORNIA AMENDMENTS)

1998 CALIFORNIA FIRE CODE, PART 9, TITLE 24 (1997 UNIFORM FIRE CODE AND CALIFORNIA AMENDMENTS)

1998 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 (1997 UNIFORM BUILDING CODE STANDARDS AND CALIFORNIA AMENDMENTS)

TITLE 19, CALIFORNIA CODE OF REGULATIONS

OCCUPANCY E1&E2

CONSTRUCTION TYPE V-NR

CLASSROOM AREA: 960 S.F. NOMINAL

- ALL MATERIALS & WORKMANSHIP SHALL CONFORM TO THE 1998 CALIFORNIA BUILDING CODE (C.B.C.) A COPY OF THE CALIFORNIA BUILDING CODE SHALL BE KEPT ON THE SITE AT ALL TIMES.
- CHANGES TO THE APPROVED DRAWINGS & SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CHANGE ORDER APPROVED BY THE STRUCTURAL ENGINEER, OWNER, & THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED.
- A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) & APPROVED BY THE STRUCTURAL ENGINEER & THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 1701A.3 OF 1998 C.B.C.
- MATERIAL TESTING SHALL BE PERFORMED AS REQUIRED PER SECTION 2231A OF 1998 C.B.C. MATERIAL TESTING REQUIRED BY FIRE REGULATIONS SHALL BE PERFORMED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
- VERIFIED REPORTS (DSA/SSS FORM 6) SHALL BE SUBMITTED PER SECTION 4-338, 4-341(f), 542(b)(6), AND 4-343 (c) BY THE MANUFACTURER, INSPECTOR, STRUCTURAL ENGINEER.
- A SEPARATE DSA APPLICATION NUMBER MUST BE OBTAINED BEFORE MANUFACTURING ANY ENVIROPLEX UNIT IN ACCORDANCE WITH THESE DRAWINGS.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS & ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- SPECIAL INSPECTIONS PER SECTION 1701A 1998 C.B.C.

D.S.A. REQUIREMENTS

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
02 105136  
DATE 10/16/03

DESIGN CRITERIA

ROOF: DEAD LOAD - 8.0 PSF  
ROOF: LIVE LOAD - 20.0 PSF (SNOW)

FLOOR: DEAD LOAD - 8.0 PSF  
FLOOR: LIVE LOAD - 50.0 PSF  
~~ROOFING-FLOOR LIVE LOAD - 70.0 PSF~~  
~~TOPPING-FLOOR LIVE LOAD - 125.0 PSF~~

WALLS: DEAD LOAD - 8.0 PSF  
WIND: 80 MPH; EXPOSURE: C  
q<sub>s</sub>=16.4 PSF; C<sub>e</sub>=1.06; C<sub>q</sub> AS REQ.  
SEISMIC ZONE 4, R=4.5, I<sub>p</sub>=2.8, I<sub>m</sub>=1.5, C<sub>u</sub>=0.44, N<sub>s</sub>=2.0, C<sub>m</sub>=54H

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

REVISION DATE: \_\_\_\_\_ BY: \_\_\_\_\_

JOB NO: 03-010  
DRAWN BY: JQ  
DATE: 02-28-03

ABBREVIATIONS

STRUCTURAL TESTS AND INSPECTIONS

SYMBOL INDEX

BUILDING CODES/CBC DATA

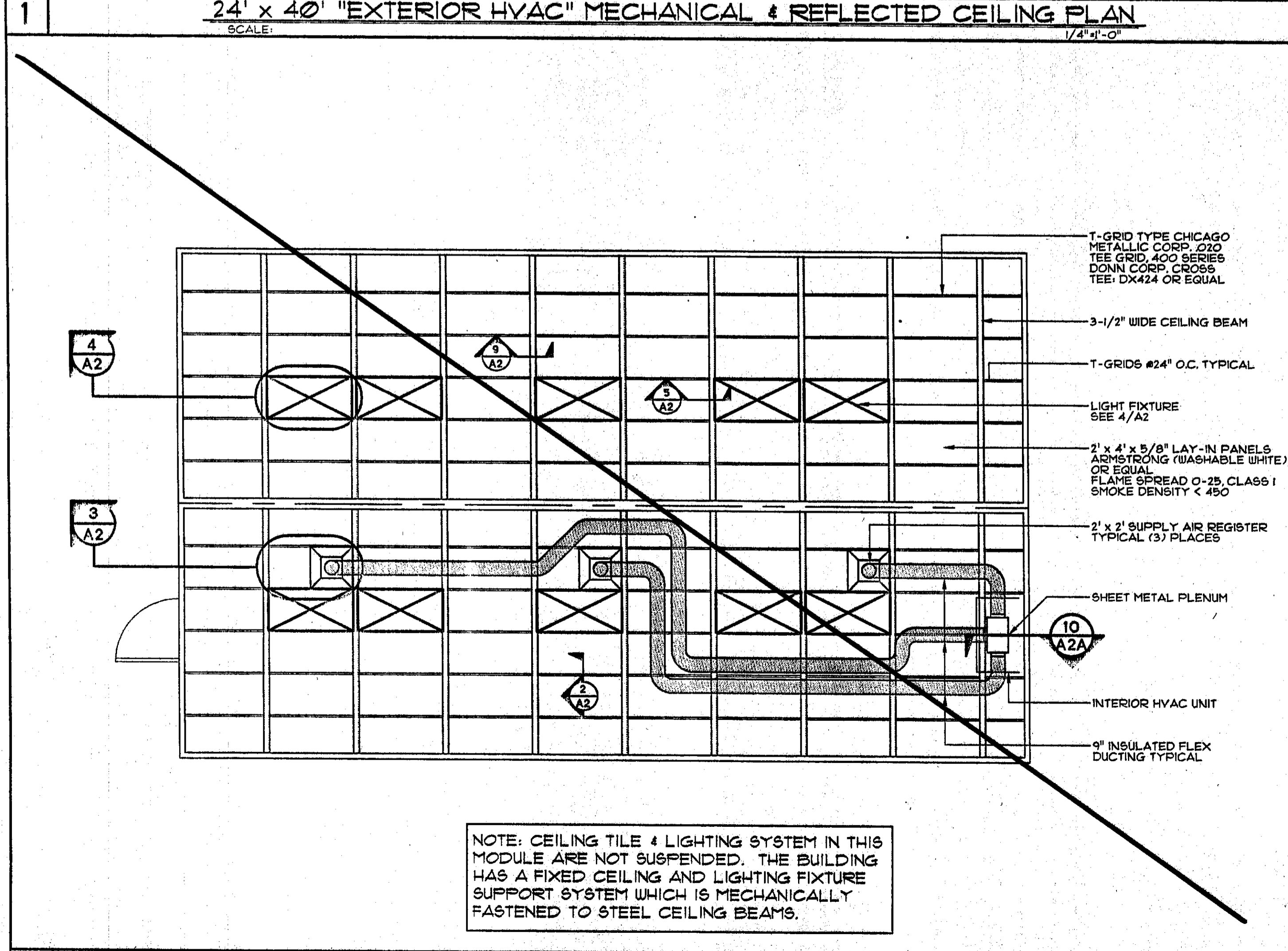
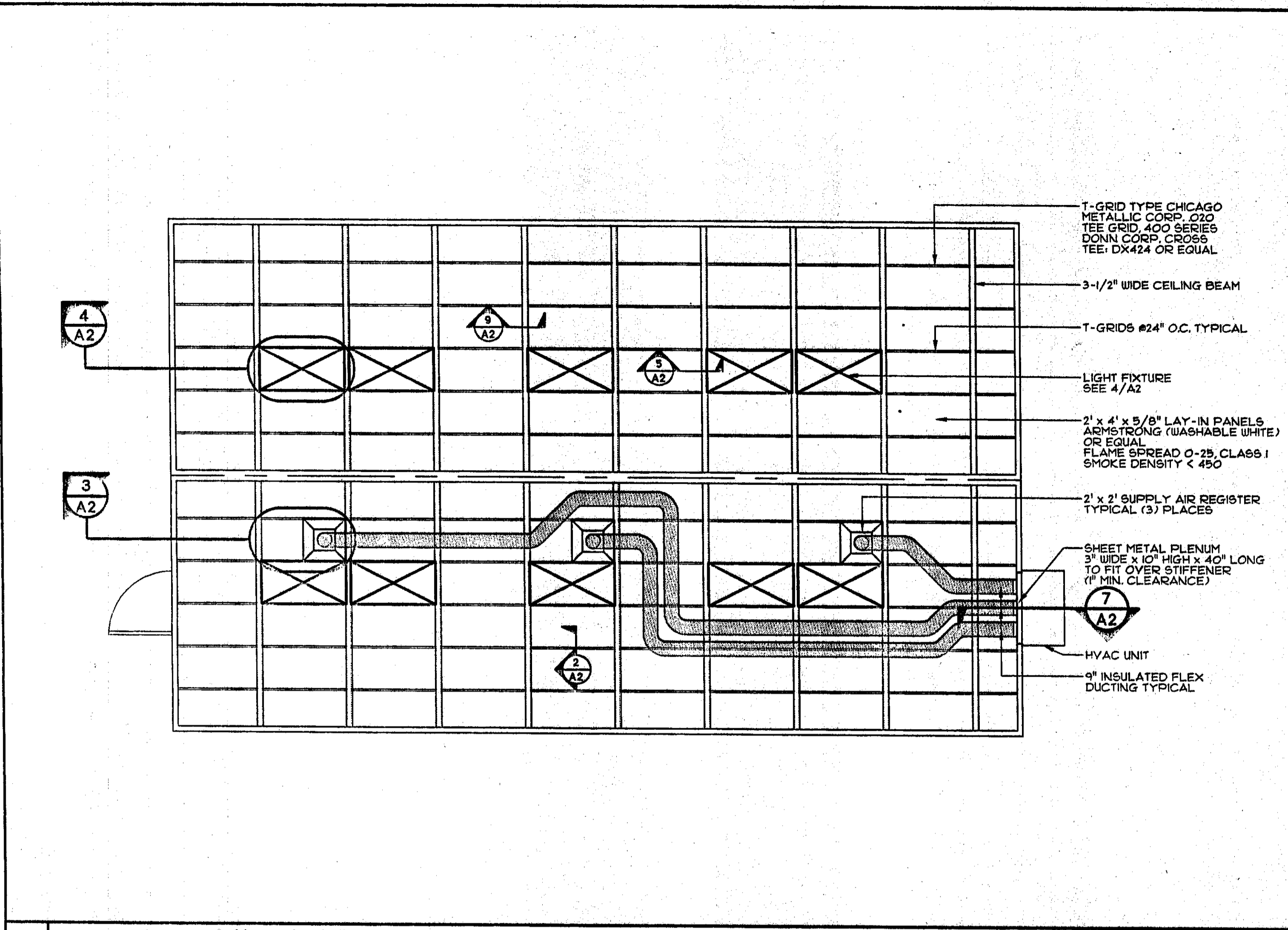
APPROVALS

A0

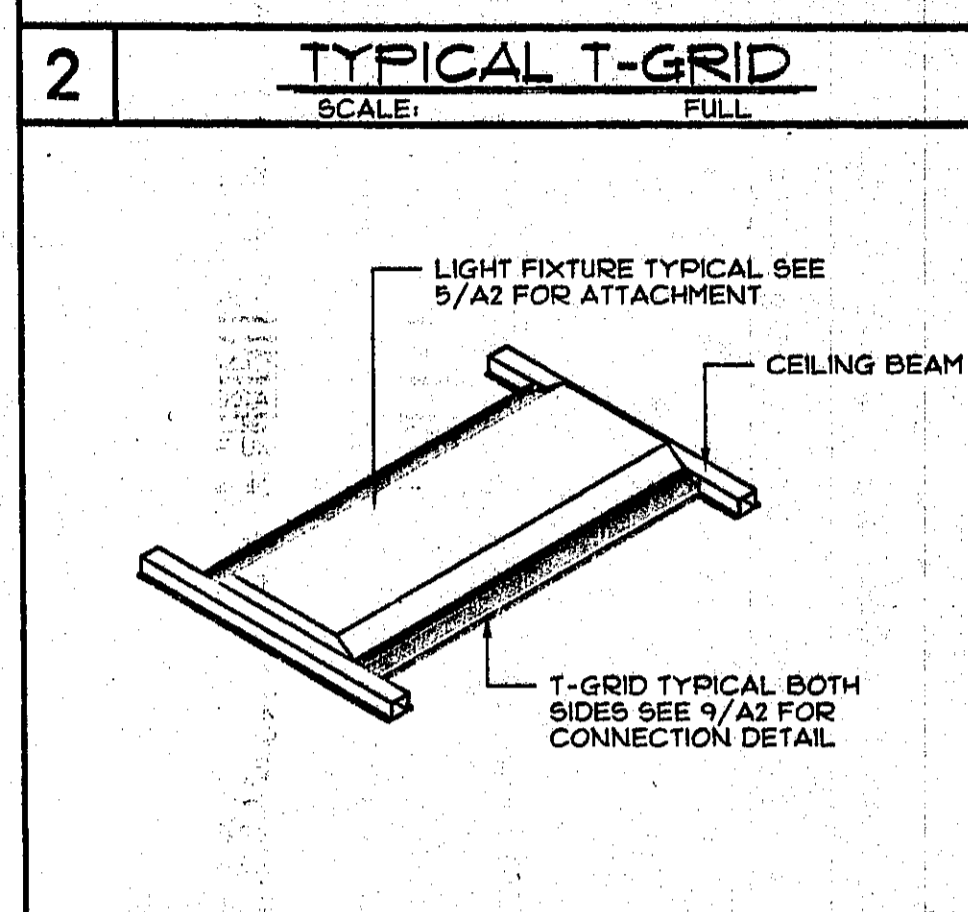
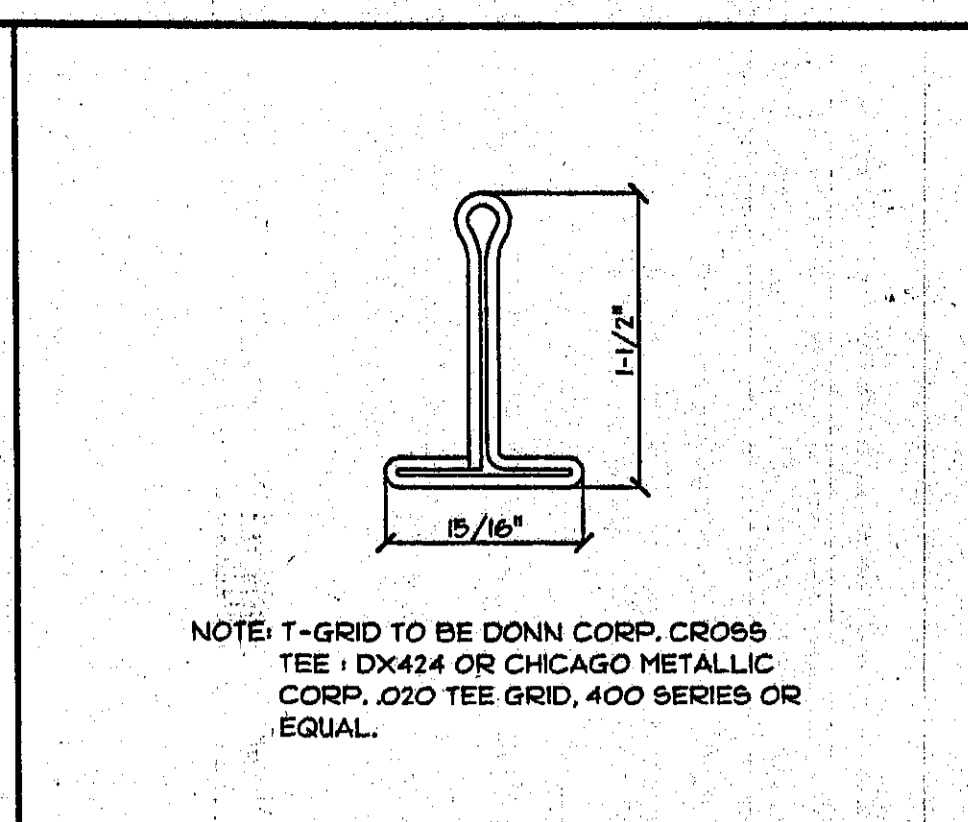




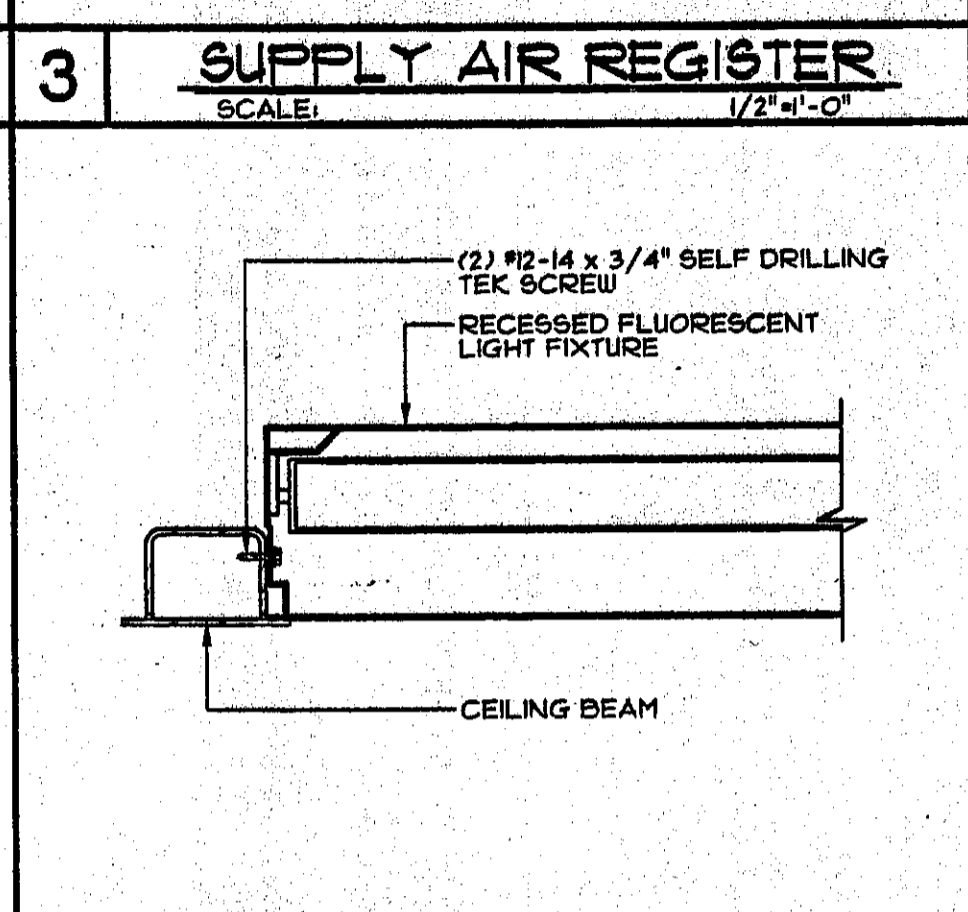
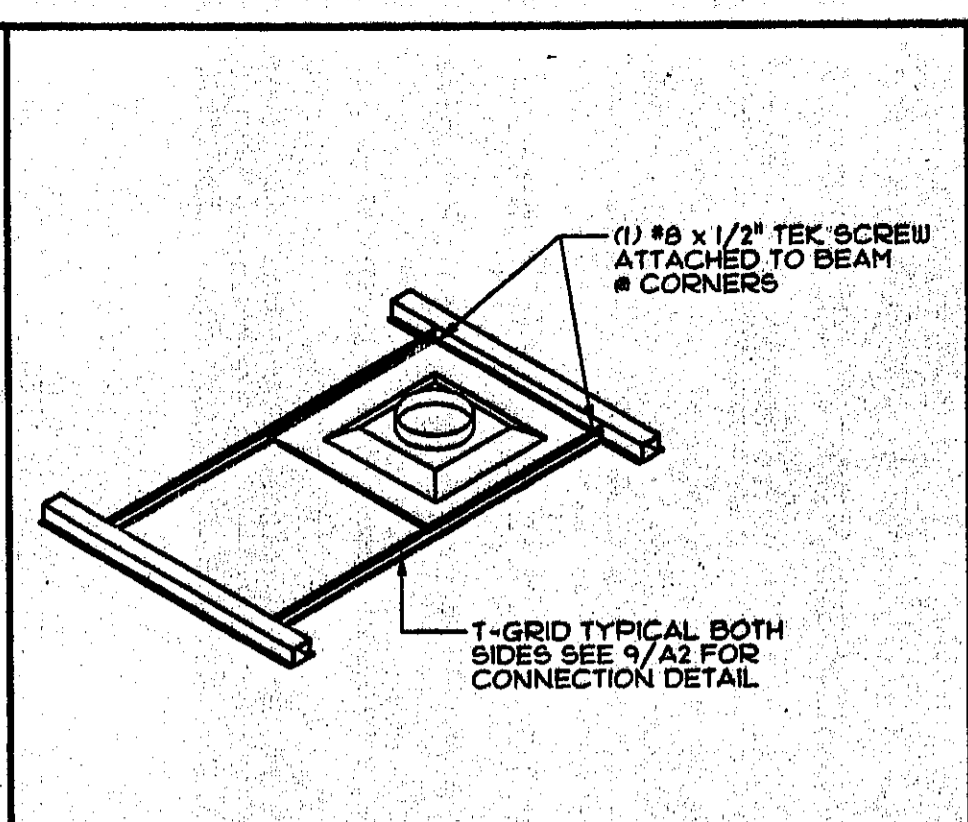




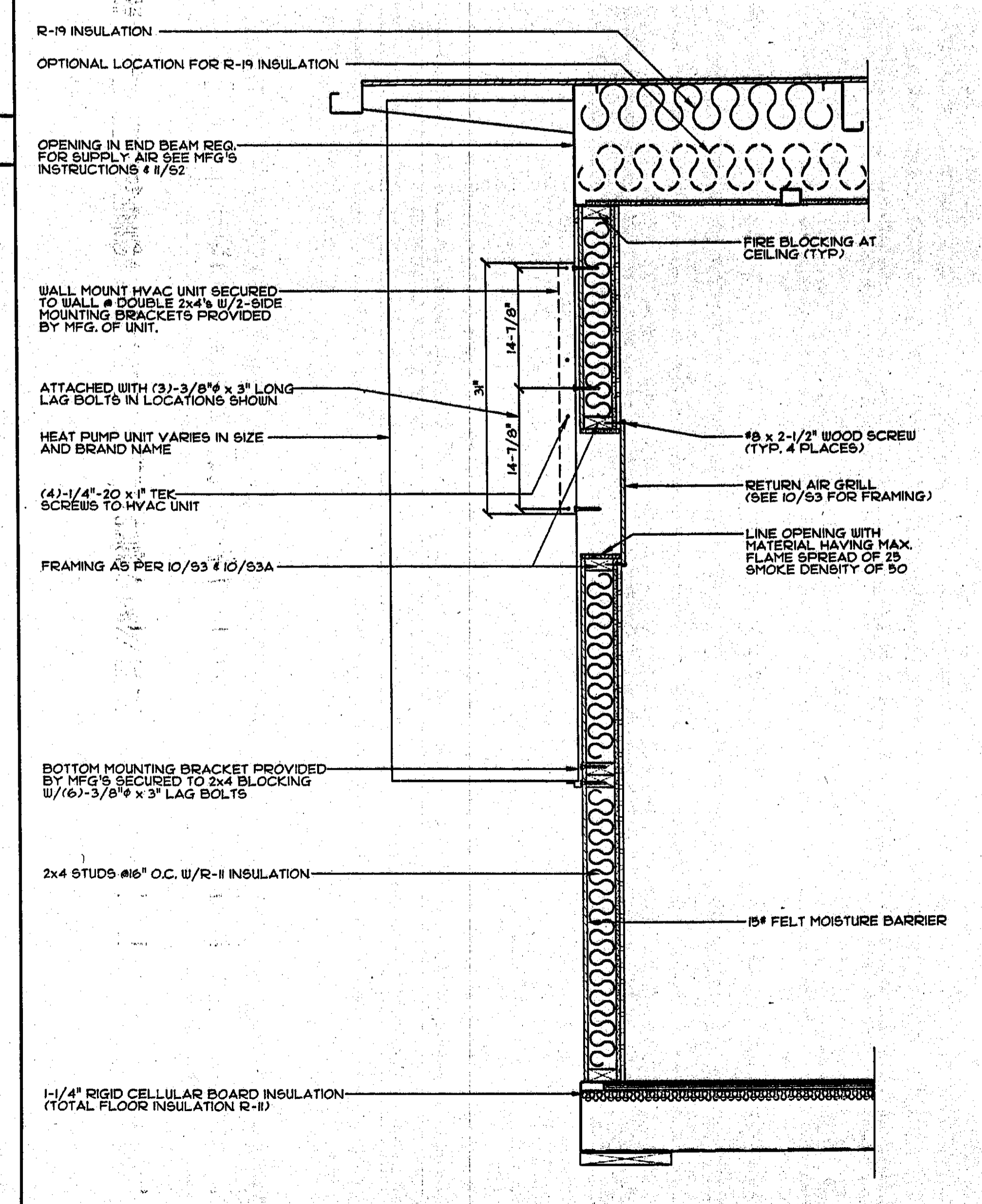
NOTE: CEILING TILE & LIGHTING SYSTEM IN THIS MODULE ARE NOT SUSPENDED. THE BUILDING HAS A FIXED CEILING AND LIGHTING FIXTURE SUPPORT SYSTEM WHICH IS MECHANICALLY FASTENED TO STEEL CEILING BEAMS.



4 DROP-IN LIGHT FIXTURE SCALE: 1/2"=1'-0"



5 LIGHT FIXTURE SUPPORT SCALE: 3/4"=1'-0"



7 HVAC @ WALL SECTION SCALE: 1"=1'-0"

I. EXTERIOR HEAT PUMP  
SINGLE PACKAGE WALL MOUNTED AIR TO AIR ELECTRIC HEAT PUMP UNIT SHALL BE RATED IN ACCORDANCE WITH ARI STANDARDS 240-TT. (U.L. LISTED) REFERENCE BRANDS: BARD WH421-AXXXXXX (OR EQUAL)  
WIRING AND MNTG. INSTALLATION OF UNIT PER MANUFACTURER'S INSTRUCTIONS.  
A) TWO SPEED INDOOR BLOWER MOTOR TO REDUCE INDOOR NOISE LEVEL.  
B) RECIRCUIT 9 KW HEAT STRIP.  
C) LOW TEMPERATURE OUTDOOR THERMOSTAT TO ASSIST CIRCUITING DURING THE HEATING MODE.  
D) COOLING: 39,406 BTU HR (95°F); HEATING 43,000 BTU HR (47°F)  
E) WEIGHT: 90# MAX

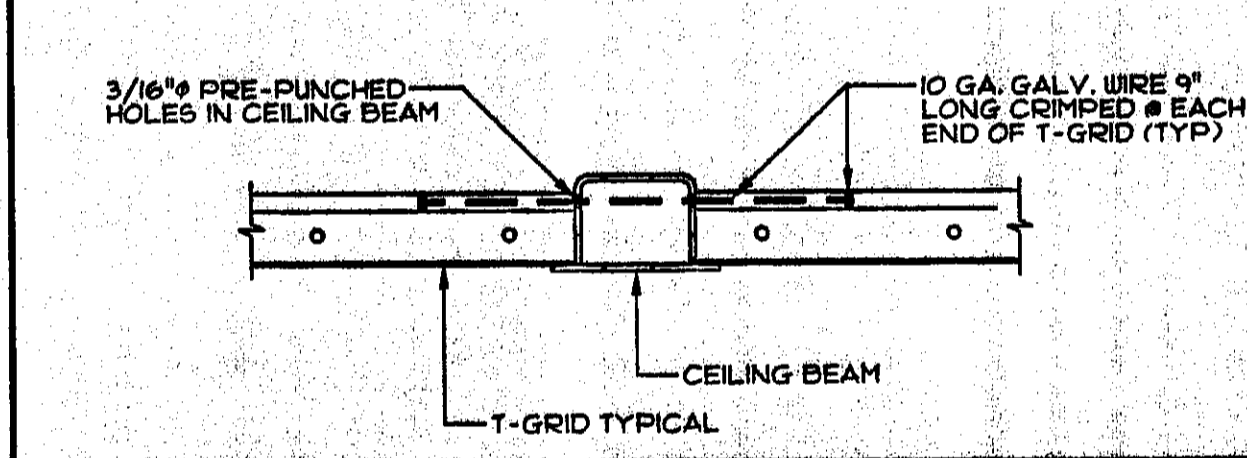
IA. INTERIOR HEAT PUMP  
SINGLE PACKAGE FLOOR & WALL MOUNTED AIR TO AIR ELECTRIC HEAT PUMP UNIT SHALL BE RATED IN ACCORDANCE WITH ARI STANDARDS 240-TT. (U.L. LISTED) REFERENCE BRANDS: BARD QH421-A05XXXXXX (OR EQUAL)  
WIRING AND MNTG. INSTALLATION OF UNIT PER MANUFACTURER'S INSTRUCTIONS.  
A) TWO SPEED INDOOR BLOWER MOTOR TO REDUCE INDOOR NOISE LEVEL.  
B) RECIRCUIT 9 KW HEAT STRIP.  
C) LOW TEMPERATURE OUTDOOR THERMOSTAT TO ASSIST CIRCUITING DURING THE HEATING MODE.  
D) COOLING: 40,000 BTU HR (95°F); HEATING 38,000 BTU HR (47°F)  
E) WEIGHT: 93# MAX

AIR FILTERS:  
AN APPROVED TYPE TESTED IN ACCORDANCE WITH TEST METHODS 8FM-12-TI-AS SHOWN IN PART 12, TITLE 24, CALIFORNIA CODE OF REGULATIONS. PREFORMED FILTERS HAVING COMBUSTIBLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS IN ALL OCCUPANCIES SHALL BE CLASS 2 OR BETTER AS DEFINED IN THE TEST METHOD ABOVE. AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT.

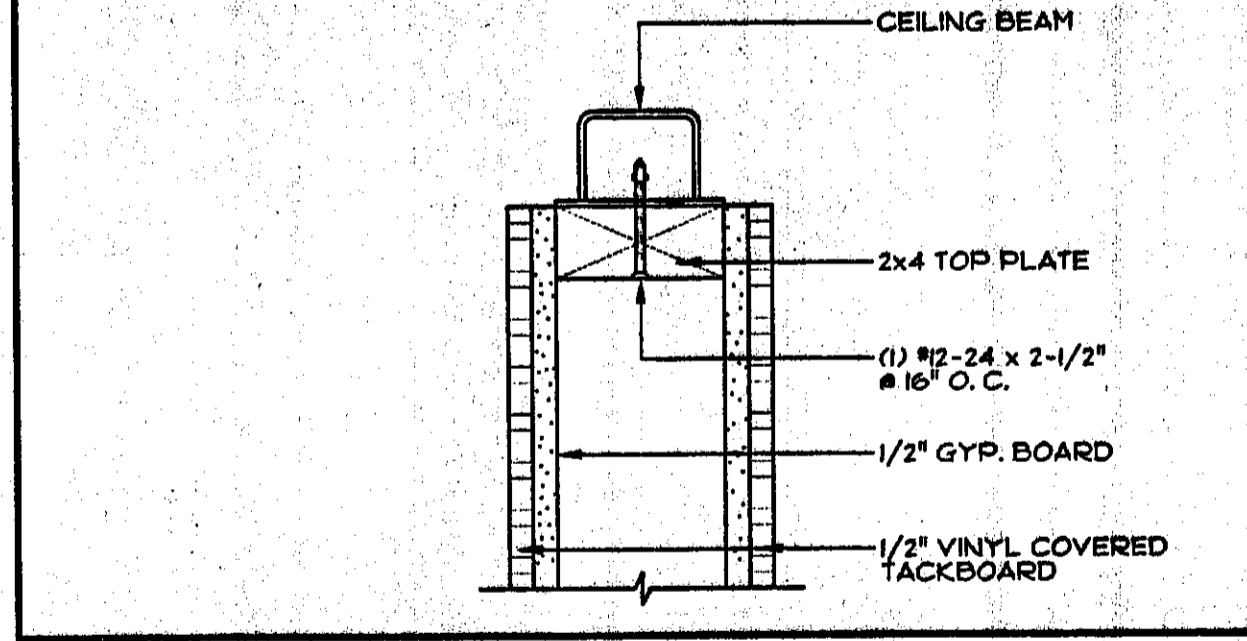
2. CONTROLS:  
THERMOSTAT: WHITE-ROGERS IF92 DIGITAL (TAMPER PROOF), MAX +60" FROM FLOOR (+48" MAX IF NON-SEALED TYPE).

3. DUCTS: MAY BE CLASS 1" OR 0"  
FACTORY MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF U.M.C. STANDARDS NO. 6-1. EACH PORTION OF A FACTORY MADE AIR DUCT SYSTEM SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCE WITH U.M.C. STANDARD NO. 6-1 AND ITS CLASS DESIGNATION. THESE DUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING. INSULATION APPLIED TO THE EXTERIOR SURFACE OF DUCTS LOCATED IN BUILDING SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50 WHEN TESTED AS A COMPOSITE INSTALLATION INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVE AS NORMALLY APPLIED. MATERIAL EXPOSED WITHIN DUCTS OR PLENUMS SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50

8 H.V.A.C. SPECIFICATIONS



9 T-GRID CONNECTION DETAIL SCALE: 3/4"=1'-0"



10 WALL ATTACHMENT DETAIL SCALE: 3/4"=1'-0"

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
02-105135  
AC: [Signature] FLS: [Signature] SS: [Signature]  
DATE: 2/16/2003

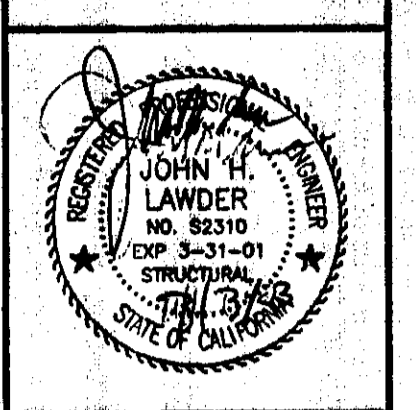
PC  
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DIVISION OF THE STATE ARCHITECT  
02-101236  
AC: [Signature] FLS: [Signature] SS: [Signature]  
DATE: 11/19/97

DESIGN CRITERIA  
ROOF: DEAD LOAD - 8.0 PSF  
ROOF: LIVE LOAD - 20.0 PSF (SNOW)  
FLOOR: DEAD LOAD - 8.0 PSF  
FLOOR: LIVE LOAD - 50.0 PSF  
(OPTIONAL) FLOOR: LIVE LOAD - 70.0 PSF  
(OPTIONAL) FLOOR: LIVE LOAD - 125.0 PSF  
WALLS: DEAD LOAD - 8.0 PSF  
WIND: 80 MPH; EXPOSURE: C  
qs=18.4 PSF; Cs=1.06; Cq AS REQ.  
SSSBC: ZONE 4R=4.5Aq=2.8Aq=1.5Cq=0.44Aq=Np=2.0Cq=0.44Aq

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11 APPROVALS

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(612) 337-1143 FAX (612) 337-1168



ENVIROPLEX, INC.  
4777 E. CARPENTER ROAD STOCKTON, CA 95215

MECHANICAL & REFLECTED CEILING PLANS - HVAC @ WALL SECTION  
DETAILS - HVAC SPECIFICATIONS

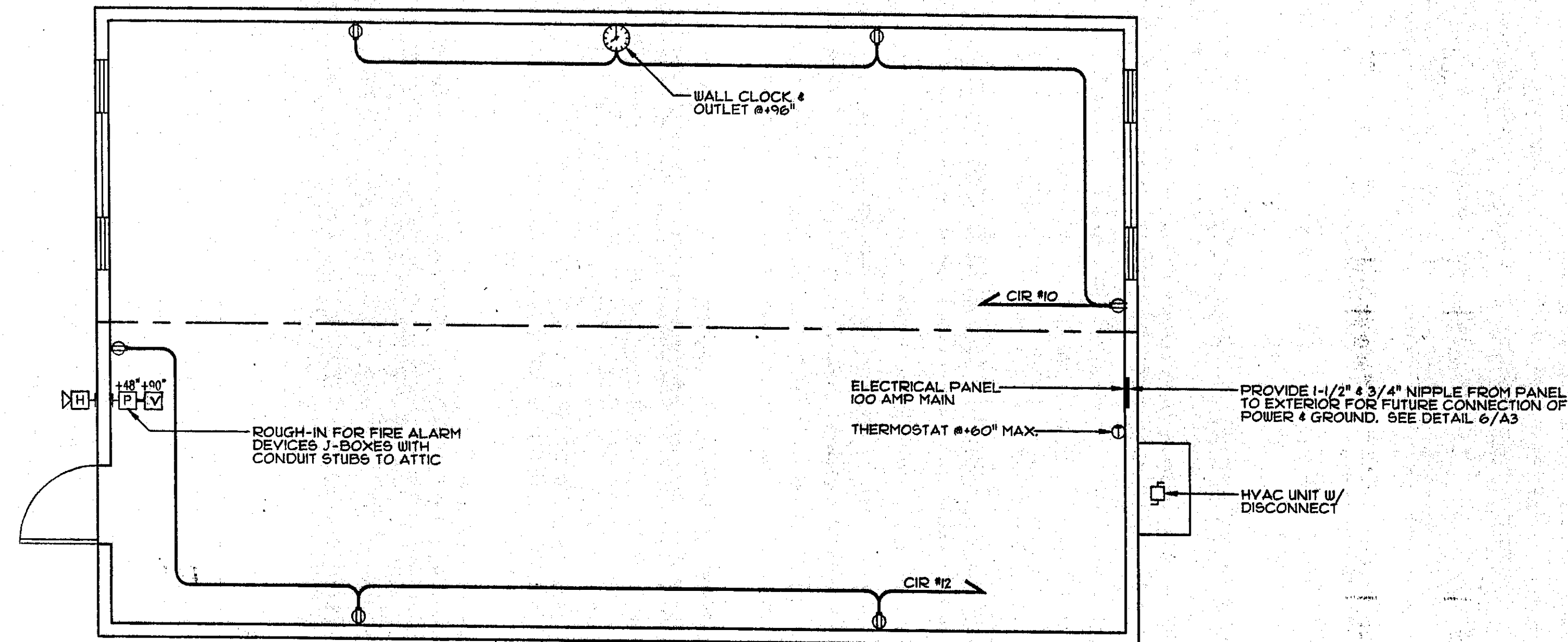
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DATE:

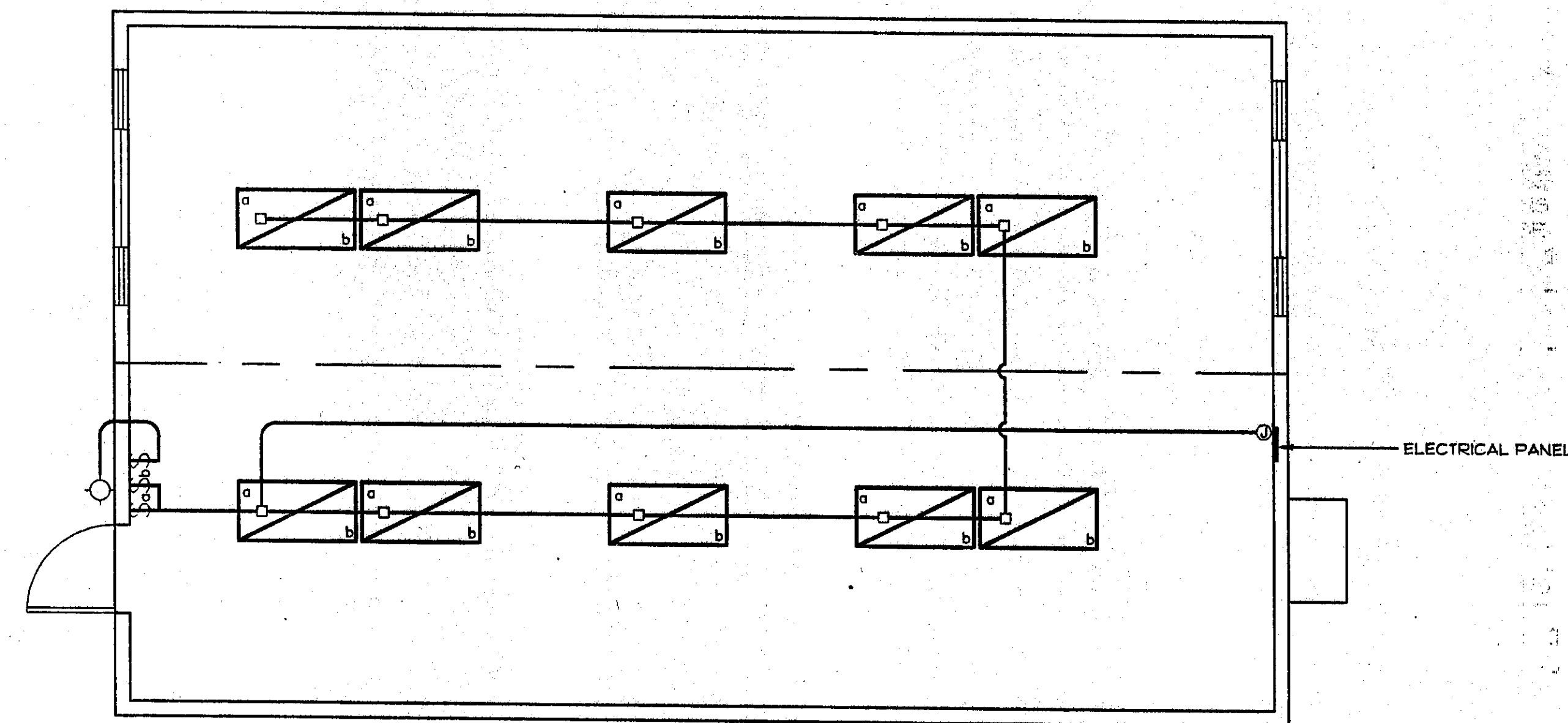
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A2





24' x 40' ELECTRICAL POWER & SIGNAL PLAN  
SCALE: 1/4"=1'-0"



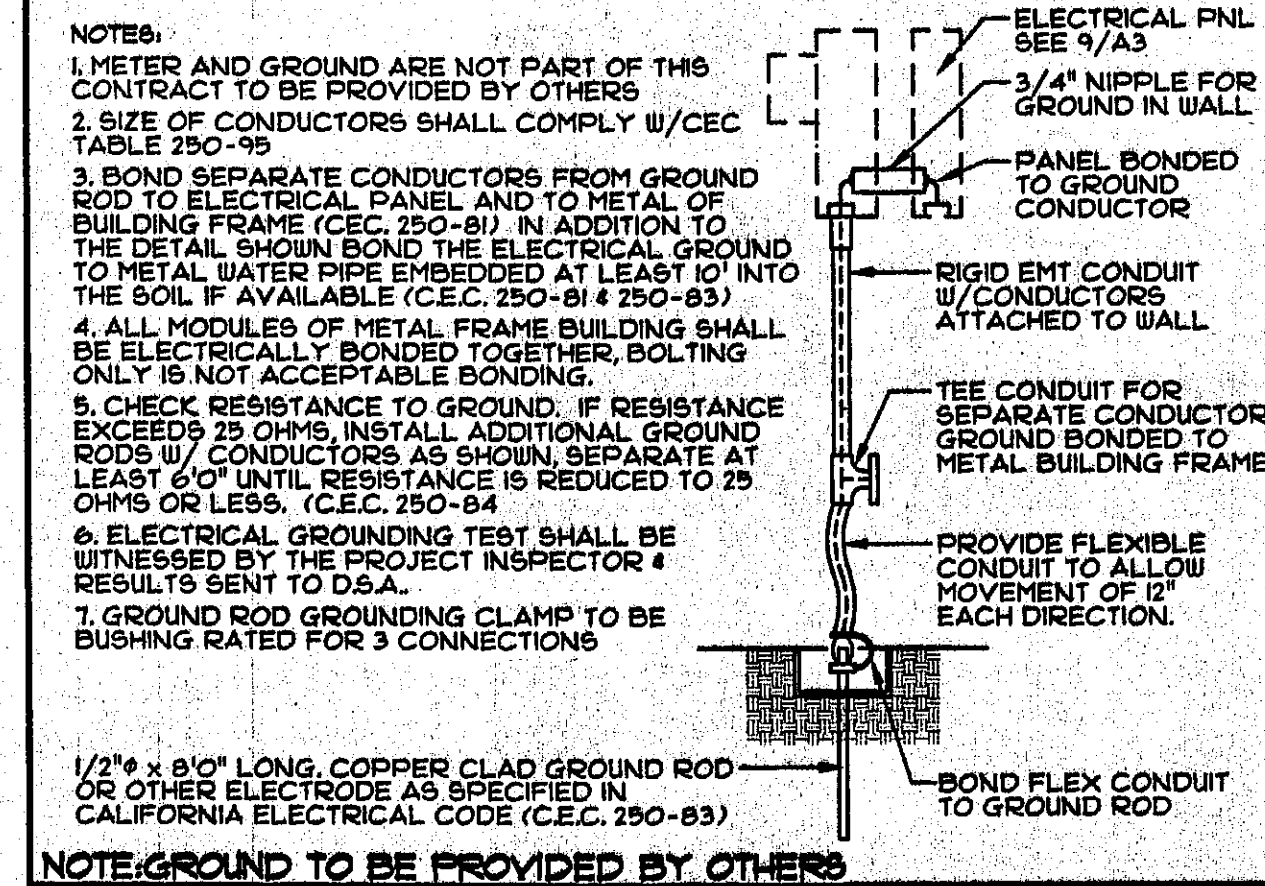
24' x 40' ELECTRICAL LIGHTING PLAN  
SCALE: 1/4"=1'-0"

- FIRE ALARM: FURNISHED BY OWNER AND SHALL CONFORM TO THE CALIFORNIA BUILDING CODE SECTION 305.9 AND CALIFORNIA ELECTRICAL CODE ARTICLE 160.
- INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY D.S.A.
- UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE PROJECT INSPECTOR.

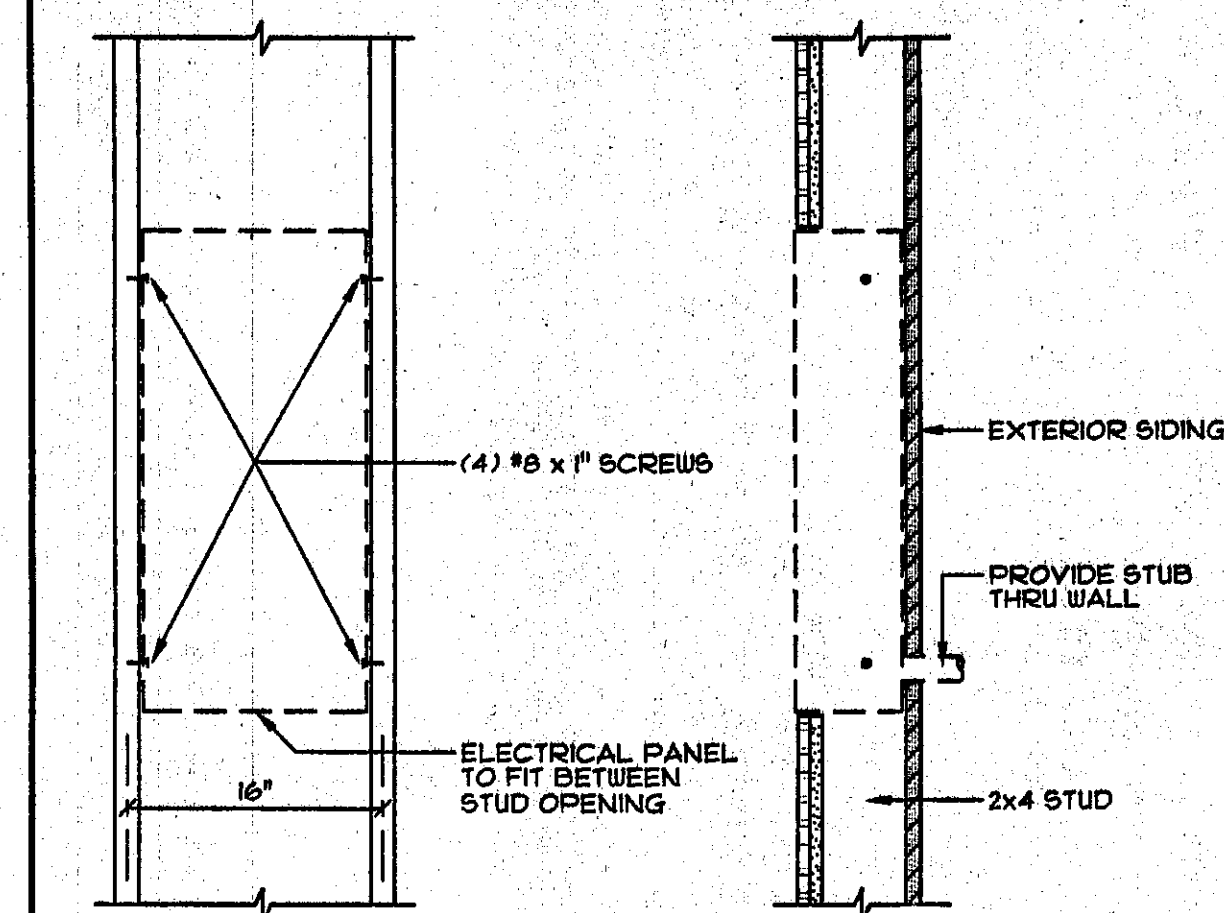
2 FIRE PROTECTION

- ⊕ DUPLEX RECEPTACLE #45" MIN. FROM FLOOR
- Ⓜ PROGRAMMABLE DIGITAL THERMOSTAT FOR HVAC UNIT #60" MAX. FROM FLOOR SEALED (NON USER OPERABLE)
- Ⓢ WALL CLOCK W/SINGLE CLOCK RECEPTACLE
- Ⓝ JUNCTION BOX ABOVE IN CEILING OR WALLS
- Ⓜ WATER PROOF BELL BOX UNDER EAVE #45"-6" FOR FUTURE FIRE ALARM AUDIBLE WARNING DEVICE - SEE NOTE NO. 1 OF FIRE PROTECTION
- Ⓜ OUTLET BOX #48" TO CENTER FOR FUTURE FIRE ALARM PULL STATION - SEE NOTE NO. 1 OF FIRE PROTECTION ABOVE
- Ⓜ OUTLET BOX #90" TO CENTER FOR FUTURE FIRE ALARM AUDIBLE WARNING DEVICE - SEE NOTE NO. 1 OF FIRE PROTECTION ABOVE
- Ⓜ OUTLET BOX #48" TO CENTER FOR FUTURE INTERCOM SYSTEM
- Ⓢ EXTERIOR INCANDESCENT LIGHT FIXTURE
- Ⓢ LIGHT SWITCH #48" MAX. TO CENTER FROM FLOOR

4 ELECTRICAL SYMBOLS



6 ELECTRICAL GROUND



9 ELECTRICAL PANEL MTG. DETAIL  
SCALE: 1/4"=1'-0"

- WALL CLOCK: 2" x 4" FROM FLOOR WITH EAGLE CLOCK RECEPTACLE 15 VAC. R4H INC. OR EQUAL
- ELECTRICAL PANEL: FLUSH MOUNTED W/ HINGED DOORS AND INDEXED CARD HOLDERS CIRCUIT BREAKER(S) WILL HAVE AN APPROPRIATE UL LABEL LISTED.
- RECEPTACLES: LEVITON, HUBBEL OR EQUAL #45" MIN.
- LIGHT SWITCHES: LEVITON, HUBBEL OR EQUAL #48" MAX.
- LIGHTING FIXTURE: 2' x 4' FLUORESCENT DROP-IN TYPE FIXTURES T-12 WITH 40 WATT LAMPS OR T-8 W/ELECTRONIC BALLAST & 32 WATT LAMPS COPPER, LITHONIA OR EQUAL.
- ELECTRIC METALLIC TUBING: COUPLINGS AND FLEX CONDUIT GALVANIZED OR SHERARDIZED.
- CONDUCTORS: COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6 TYPE THW FOR LARGER SIZES. MINIMUM SIZE #12. LIGHTING & OUTLETS USE MINIMUM SIZE #12, SIZE HVAC WIRING PER LOAD.
- SEE SHEET A2 FOR HVAC & THERMOSTAT SPECIFICATION.

3 ELECTRICAL SPECIFICATIONS

- CERTIFIED LUMINARIES/BALLASTS PER SEC. 2-5314 (a).
- INDEPENDENT CONTROL WITHIN ENCLOSED AREAS PER SEC. 2-5319 (a).
- MANUAL SWITCHING READILY ACCESSIBLE PER SEC. 2-5319 (a).
- REDUCTION OF LIGHTING LOAD TO AT LEAST 50% PER SEC. 2-5319 (a).
- SEPARATE SWITCHING OF DAYLITE AREAS PER SEC. 2-5319 (a).
- TANDEM WIRING OF 4 LAMP LUMINARIES PER SEC. 2-5314 (a).

5 ELECTRICAL ENERGY COMPLIANCE

PANEL SCHEDULE: "A" NEMA-1 VOLTS: 120/240  
 MOUNTING: FLUSH AMPS: 100 WIRE: 3W  
 INTERIOR PHASE: 1ø

DESCRIPTION	LOAD	BRKR		BRKR	LOAD	DESCRIPTION
MAIN		100	1	2		
			2	3		
HVAC UNIT	7612	50	5	8	1440	LIGHTING-A
			2	7	1440	LIGHTING-B
			9	10	1800	OUTLETS
			11	12	1800	OUTLETS
			13	14		
			15	16		
			17	18		
			19	20		
			21	22		
			23	24		
	7.6	KVA	TOTAL	6.4		

7 PANEL SCHEDULE "A"

DIVISION OF THE STATE ARCHITECT

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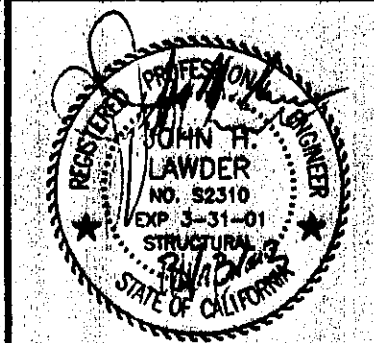
PC  
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 DIVISION OF THE STATE ARCHITECT  
 02-101238  
 AC: FLS SS 482  
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DESIGN CRITERIA  
 ROOF: DEAD LOAD - 8.0 PSF  
 ROOF: LIVE LOAD - 20.0 PSF (SNOW)  
 FLOOR: DEAD LOAD - 8.0 PSF  
 FLOOR: LIVE LOAD - 50.0 PSF  
 (OPTIONAL) FLOOR: LIVE LOAD - 70.0 PSF  
 (OPTIONAL) FLOOR: LIVE LOAD - 125.0 PSF  
 WALLS: DEAD LOAD - 8.0 PSF  
 WIND: 80 MPH, EXPOSURE: C  
 q<sub>s</sub>=16.4 PSF, C<sub>d</sub>=1.06, C<sub>f</sub> AS REQ.  
 SEISMIC ZONE 4, R=1.5, S<sub>s</sub>=2.8, S<sub>1</sub>=1.5, S<sub>2</sub>=0.44, S<sub>3</sub>=2.0, S<sub>4</sub>=6.44

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10 APPROVALS

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 FAX (209) 521-1168



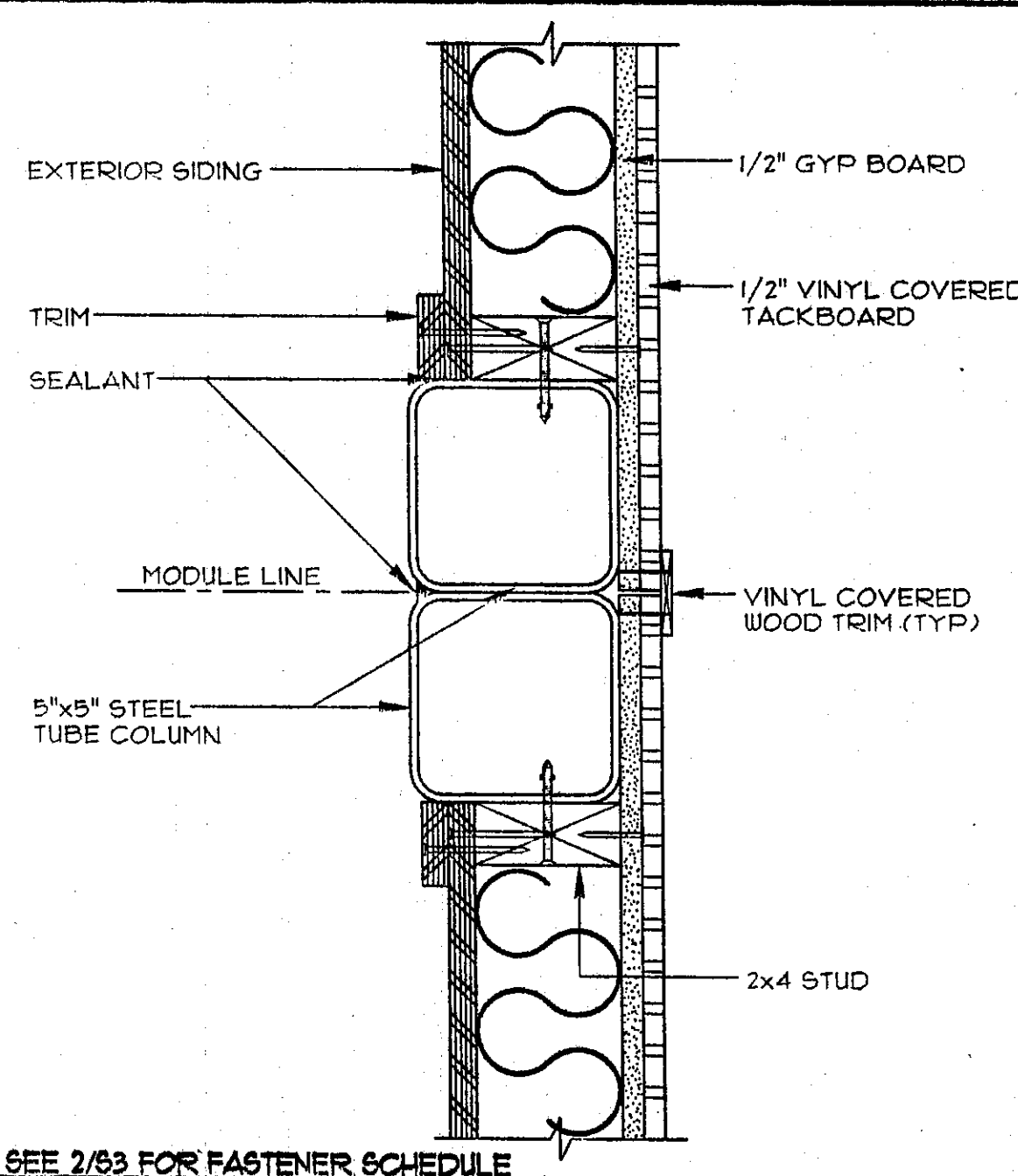
ENVIROPLEX, INC.  
 4777 E. CARPENTER ROAD  
 STOCKTON, CA 95215

ELECTRICAL POWER & SIGNAL PLAN  
 ELECTRICAL LIGHTING PLAN  
 DETAILS-ELECTRICAL NOTES

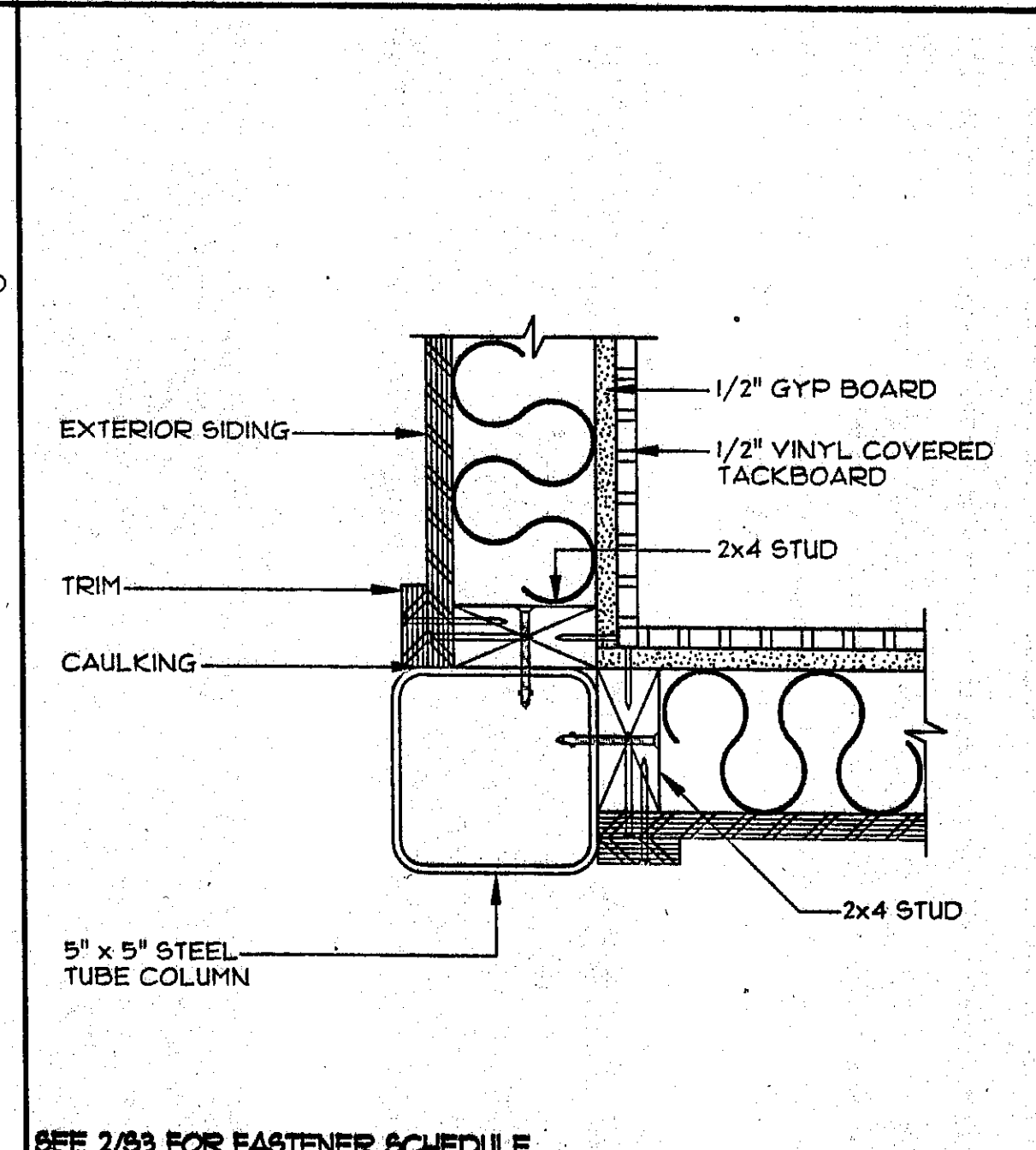
REVISION DATE: BY:  
 DATE: THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

A3

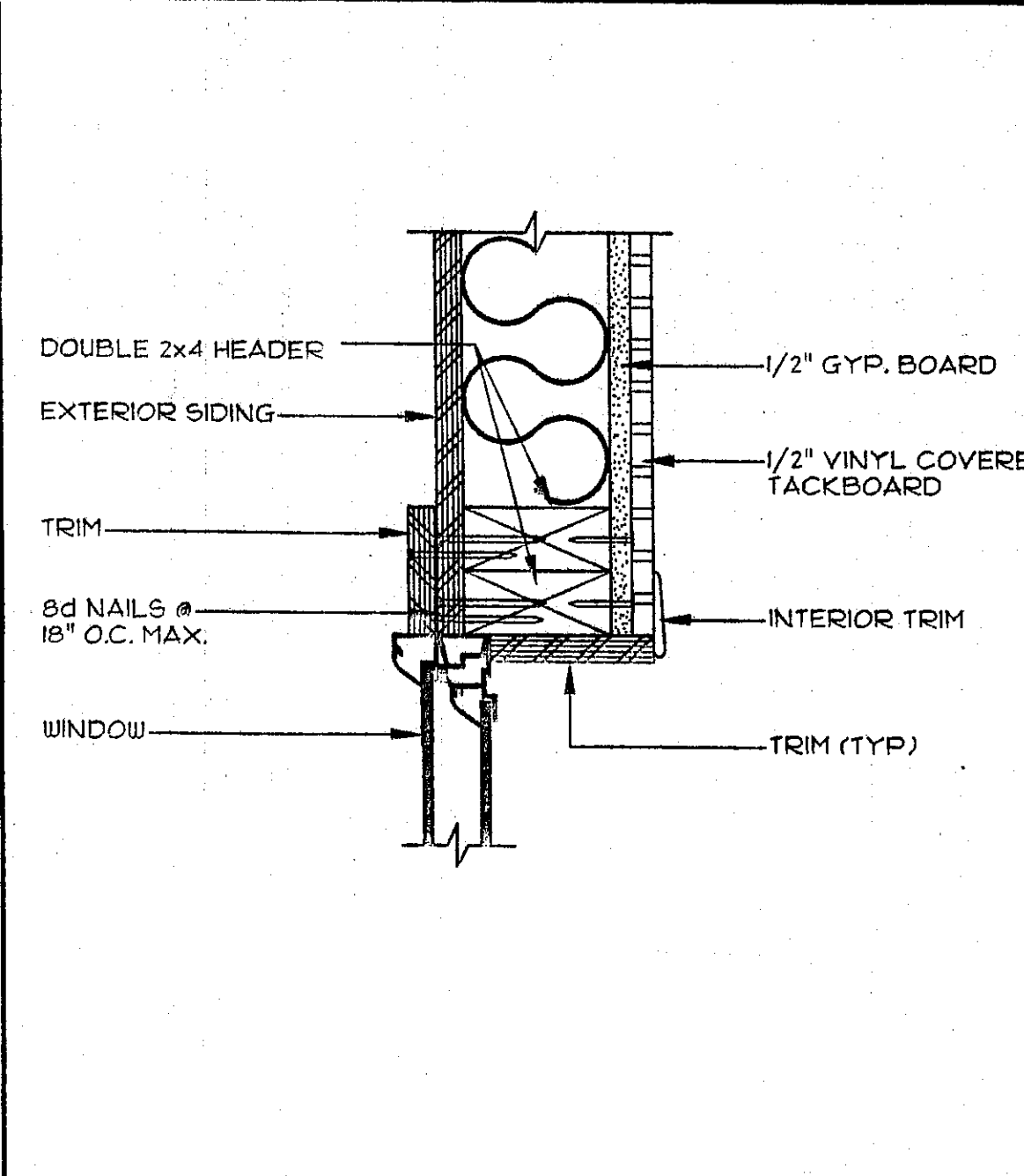




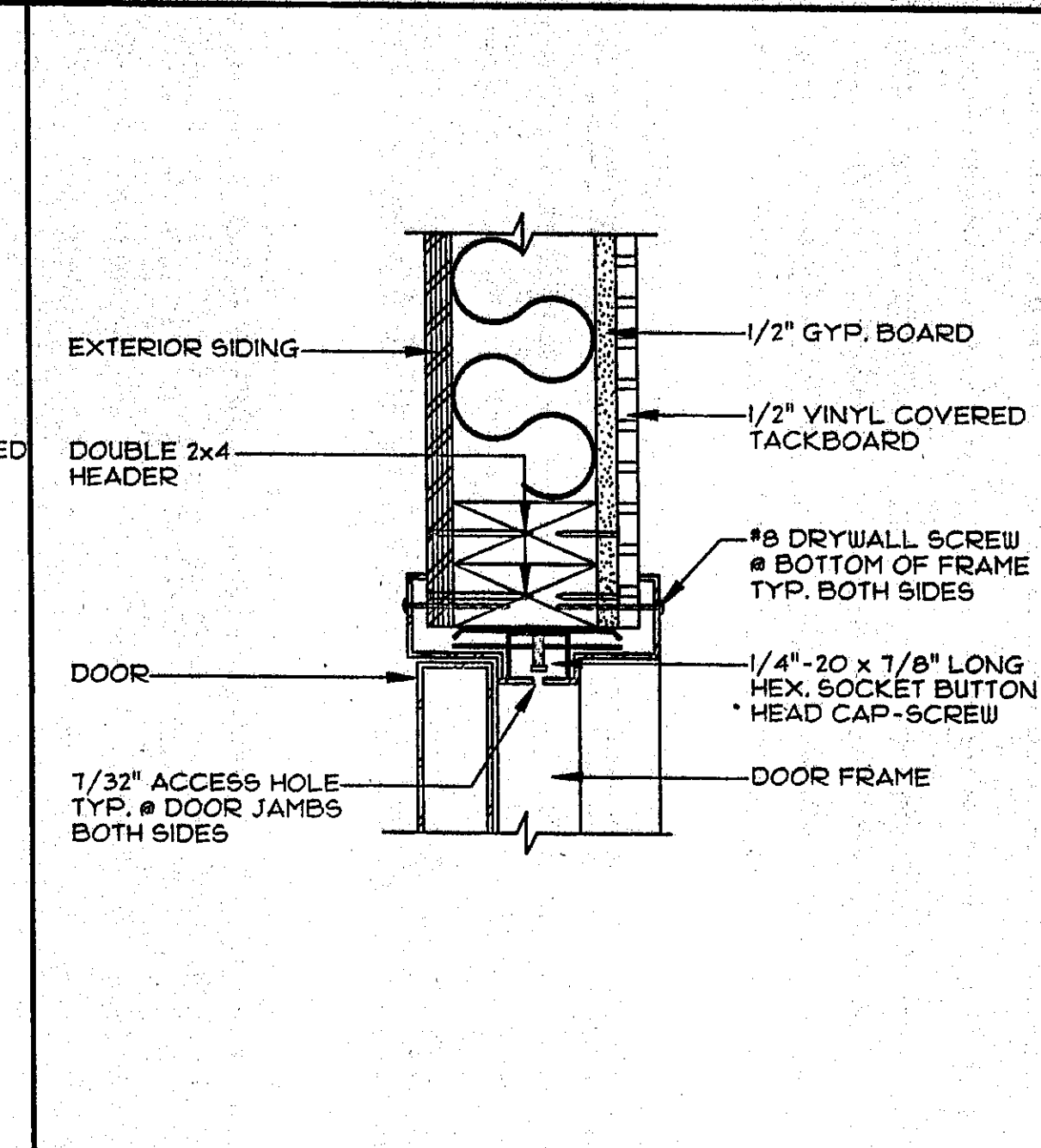
1 COLUMN SECTION AT MOD-LINE  
SCALE: 3/8" = 1'-0"



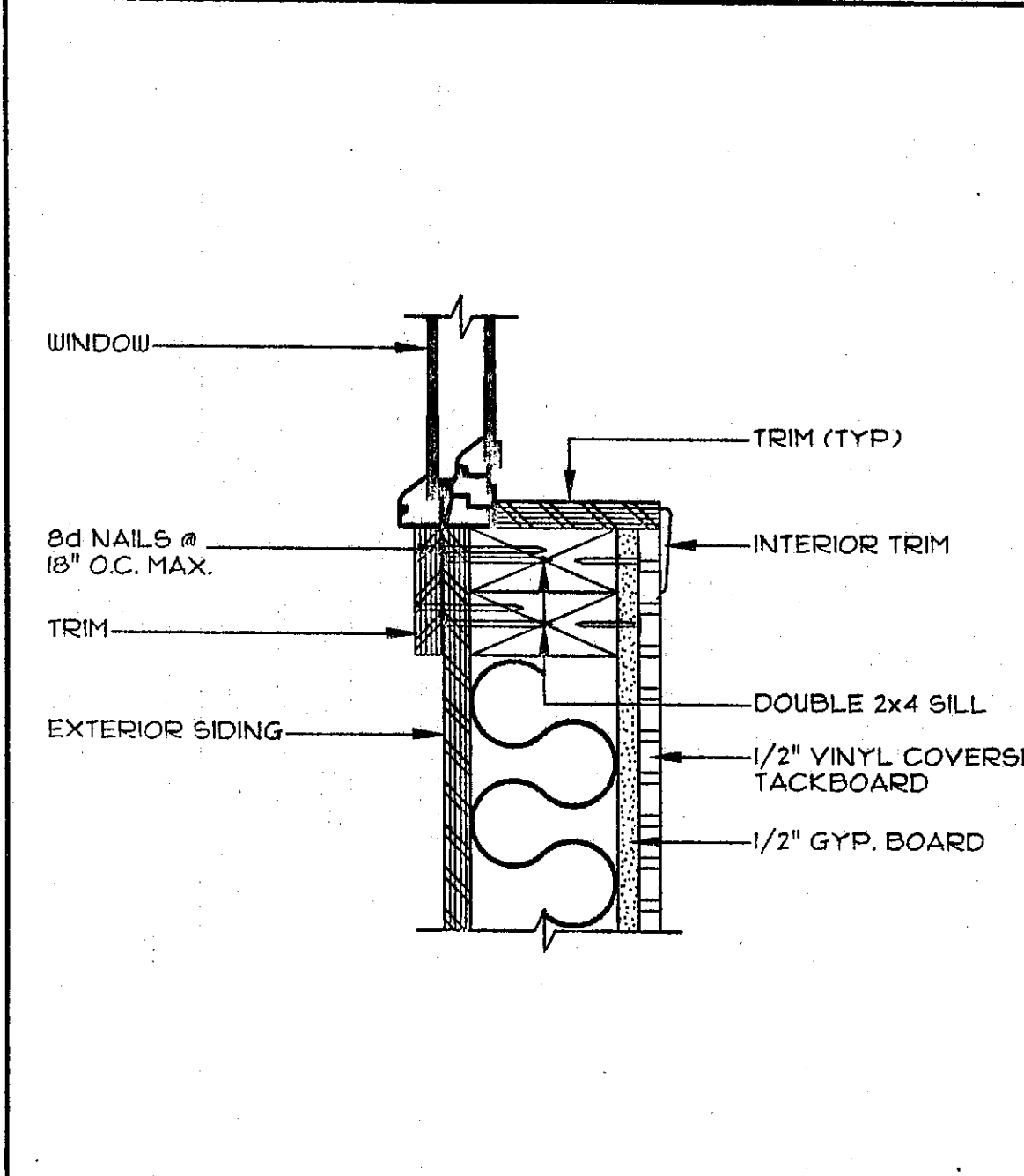
2 COLUMN SECTION @ CORNER  
SCALE: 3/8" = 1'-0"



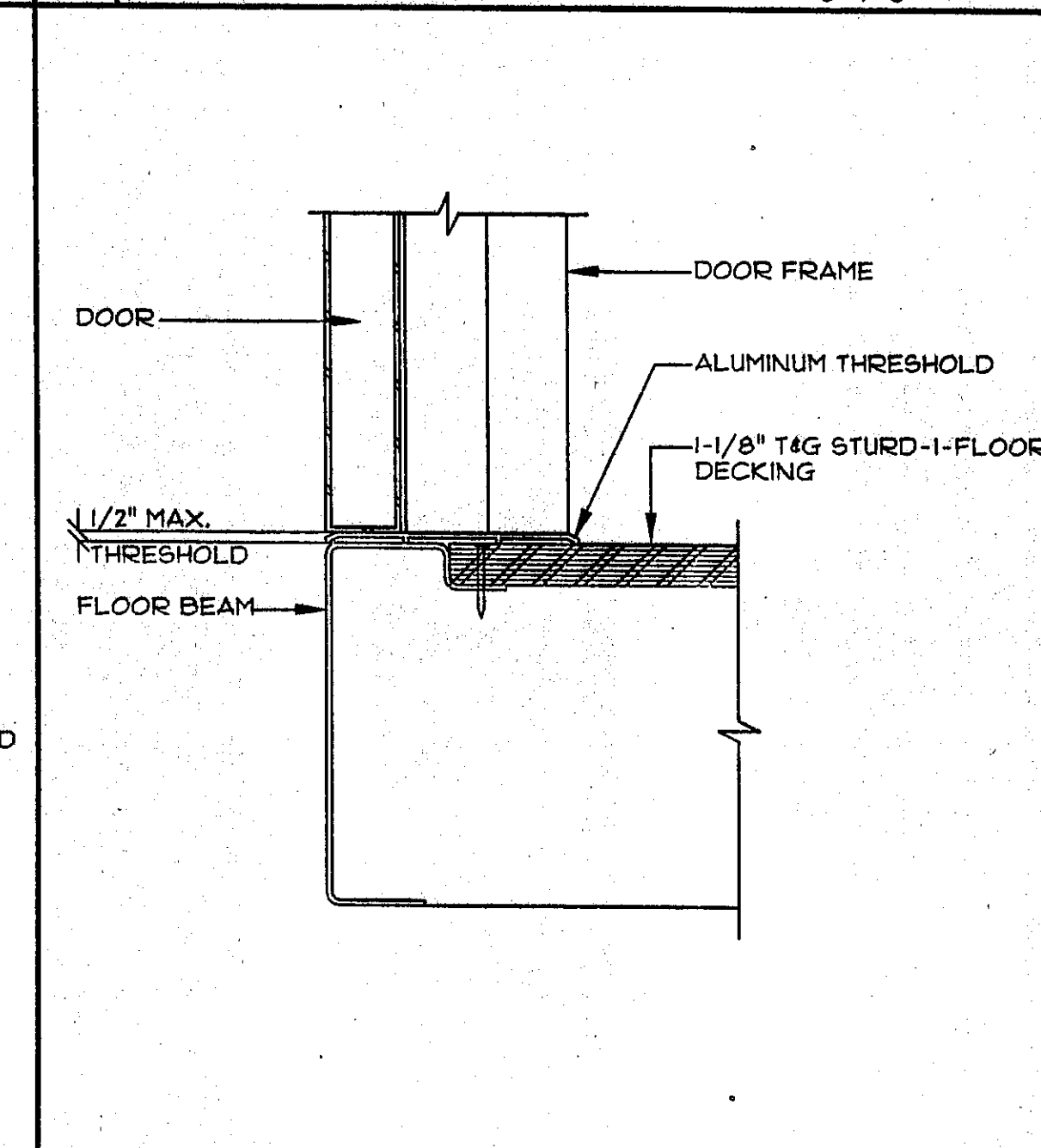
3 WINDOW HEADER (JAMB SIM'L)  
SCALE: 3/8" = 1'-0"



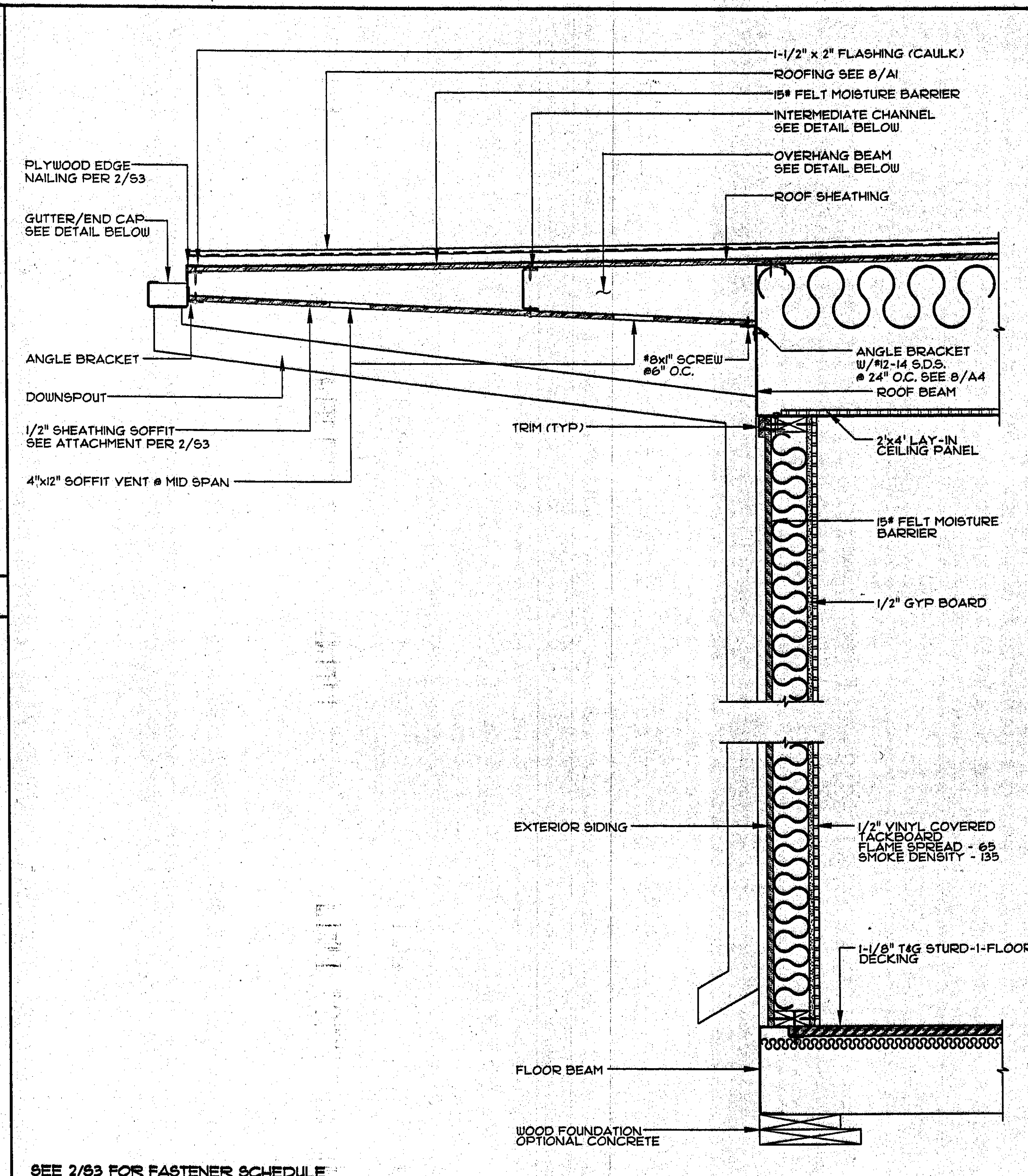
4 DOOR HEAD (JAMB SIM'L)  
SCALE: 3/8" = 1'-0"



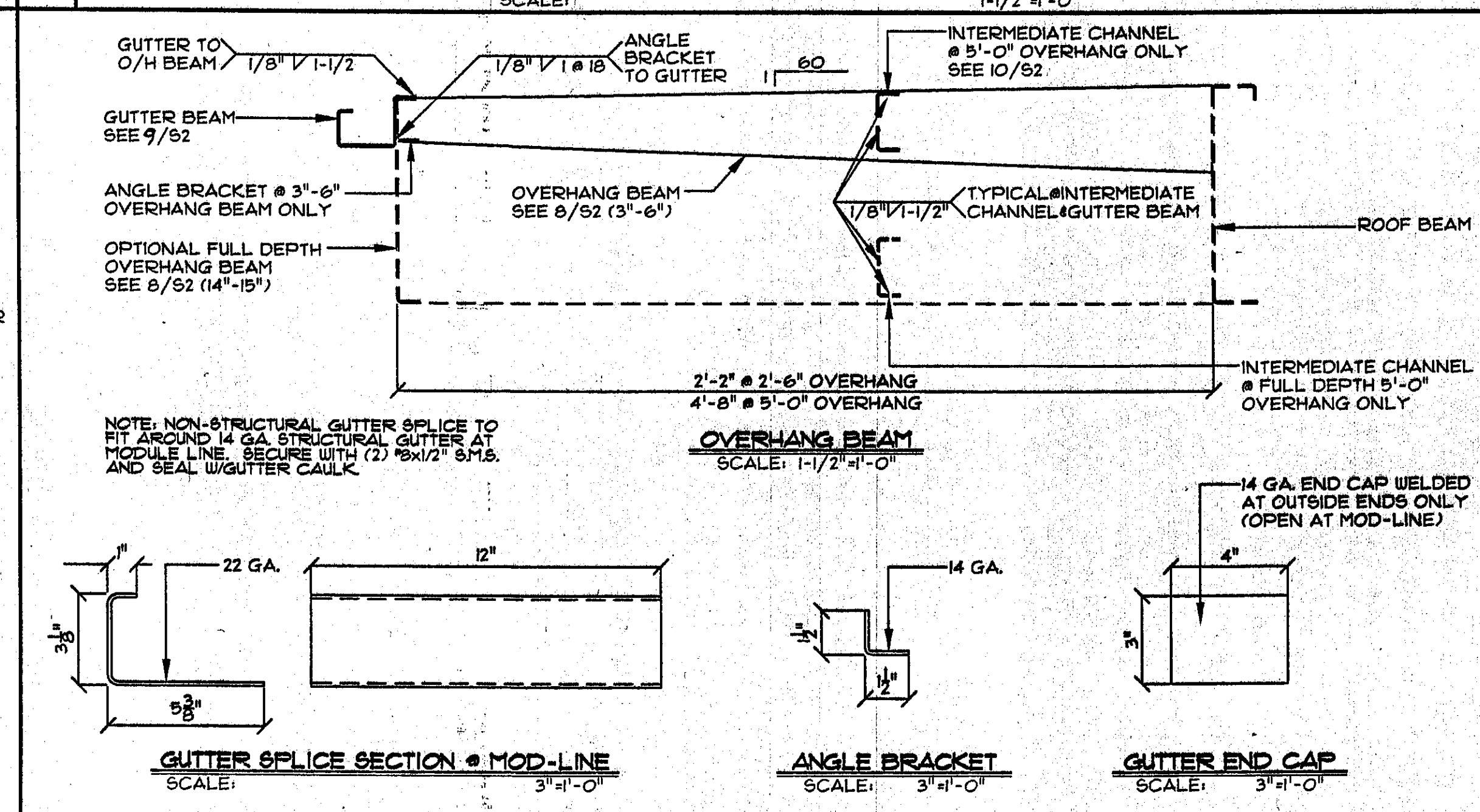
5 WINDOW SILL  
SCALE: 3/8" = 1'-0"



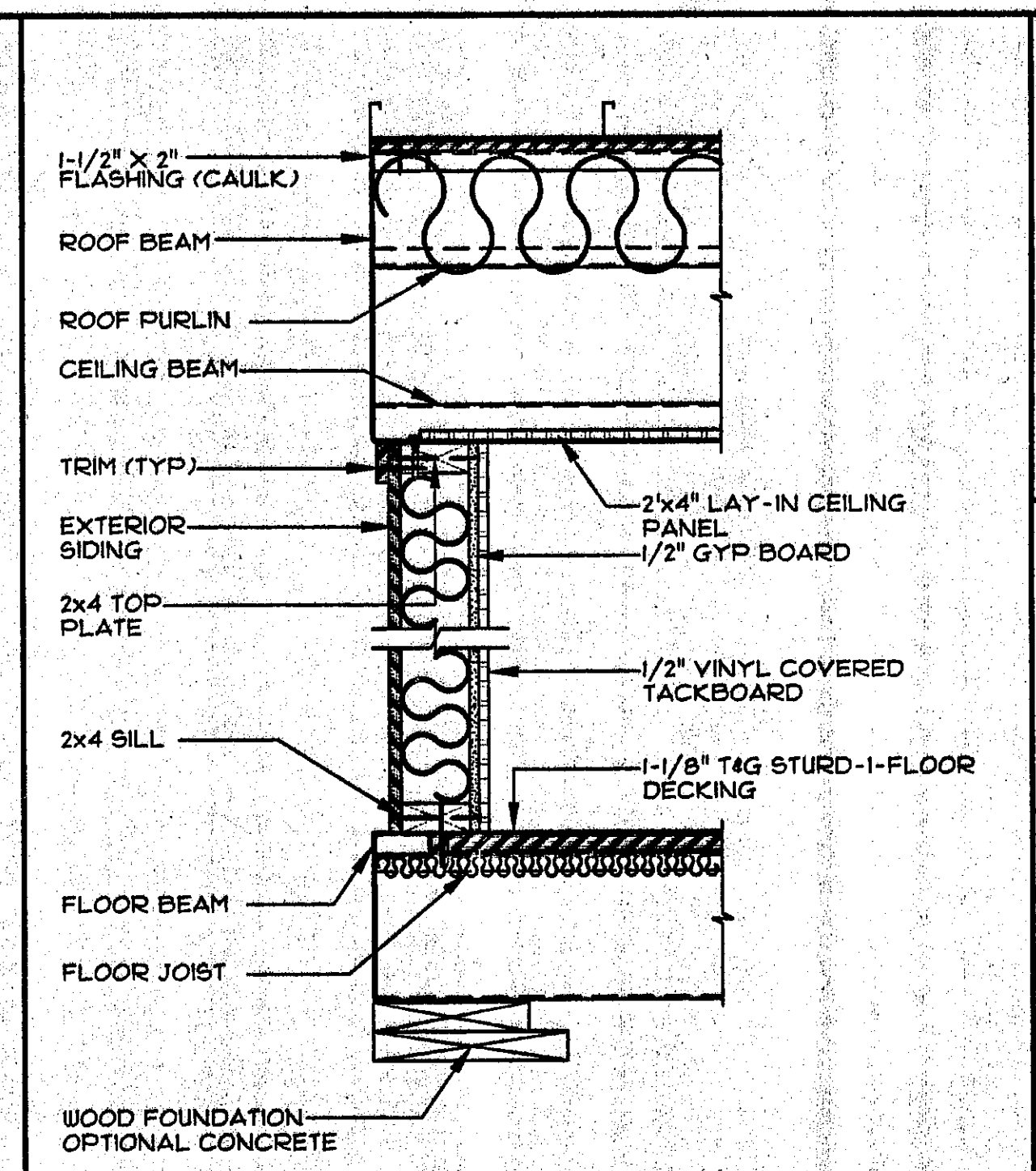
6 DOOR SILL  
SCALE: 3/8" = 1'-0"



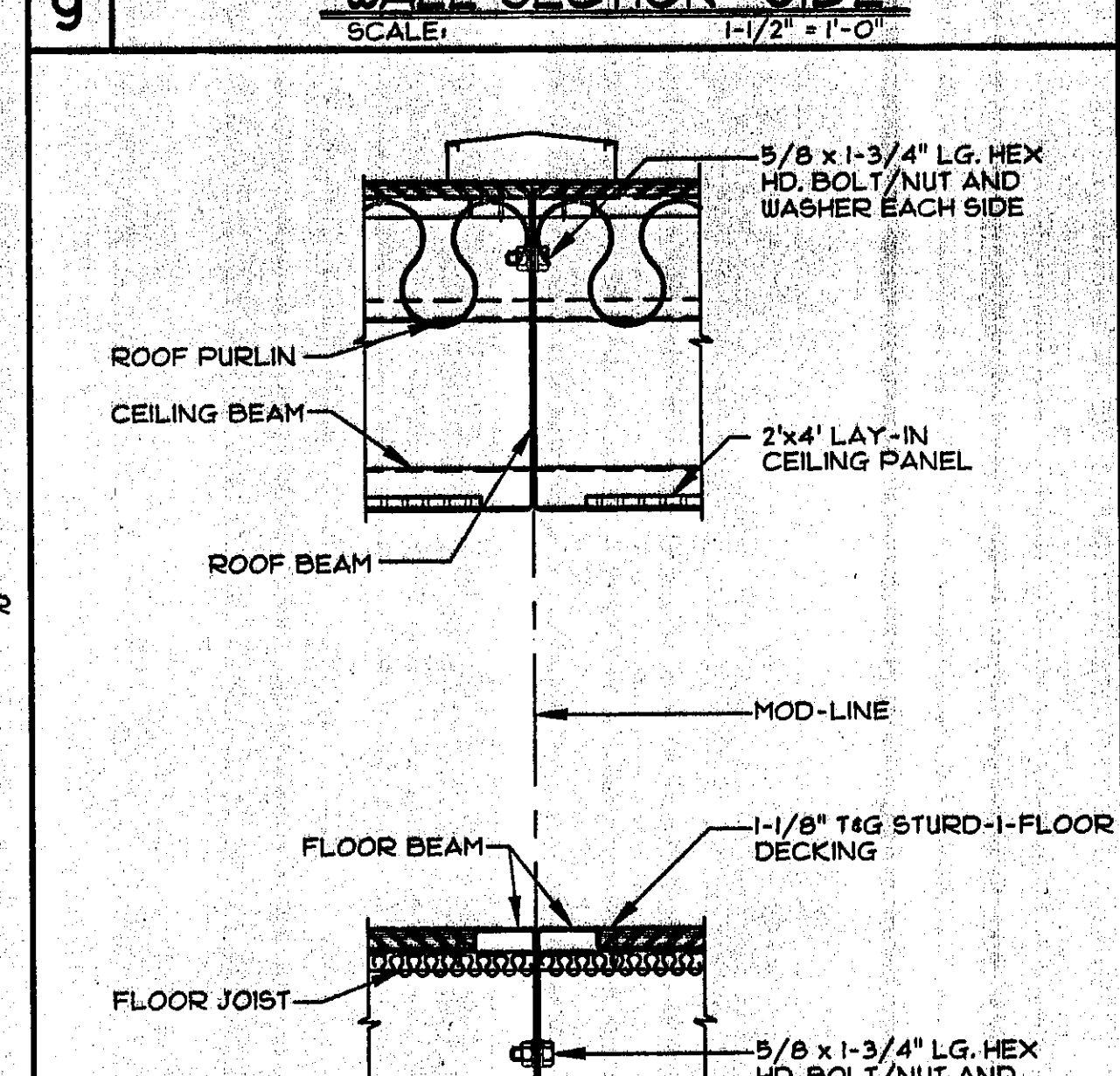
7 WALL SECTION - FRONT AND REAR  
SCALE: 1-1/2" = 1'-0"



8 OVERHANG SECTION & GUTTER DETAILS  
SCALE: AS NOTED



9 WALL SECTION - SIDE  
SCALE: 1-1/2" = 1'-0"



10 WALL SECTION AT MOD-LINE  
SCALE: 1-1/2" = 1'-0"

11 APPROVALS

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DIV. OF THE STATE ARCHITECT  
02-105136  
AC: [Signature] FLS: [Signature] SS: [Signature]  
DATE: 11/17/99

DESIGN CRITERIA  
 ROOF: DEAD LOAD - 8.0 PSF  
 ROOF: LIVE LOAD - 20.0 PSF (SNOW)  
 FLOOR: DEAD LOAD - 8.0 PSF  
 FLOOR: LIVE LOAD - 50.0 PSF  
 (OPTIONAL) FLOOR: LIVE LOAD - 70.0 PSF  
 (OPTIONAL) FLOOR: LIVE LOAD - 125.0 PSF  
 WALLS: DEAD LOAD - 8.0 PSF  
 WIND: 80 MPH; EXPOSURE: C  
 q = 16.4 PSF; C<sub>e</sub> = 1.05; C<sub>q</sub> AS REQ.  
 SENS: ZONE 4, R=4.5, V=2.0, I<sub>e</sub>=1.5, C<sub>e</sub>=0.44, N<sub>1</sub>=2.0, C<sub>q</sub>=0.84

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11 APPROVALS

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PROFESSIONAL ENGINEER  
No. 52310  
Exp. 3-31-01  
STATE OF CALIFORNIA

ENVIROPLEX, INC.  
4777 E. CARPENTER ROAD STOCKTON, CA. 95215

SECTIONS AND DETAILS

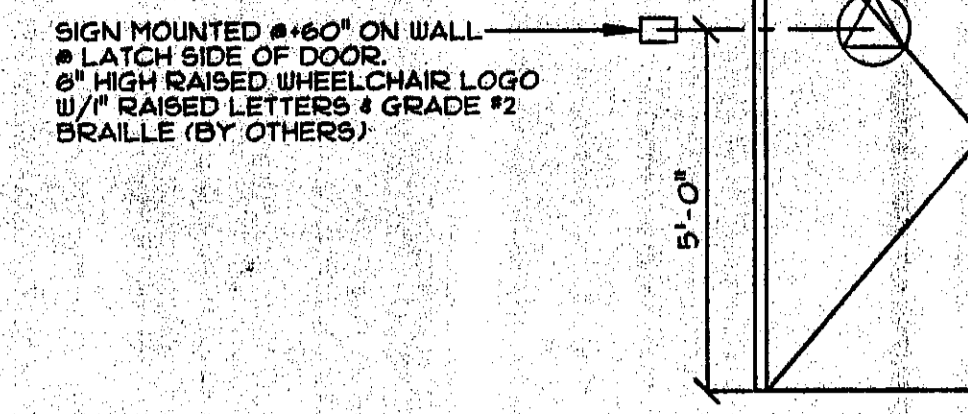
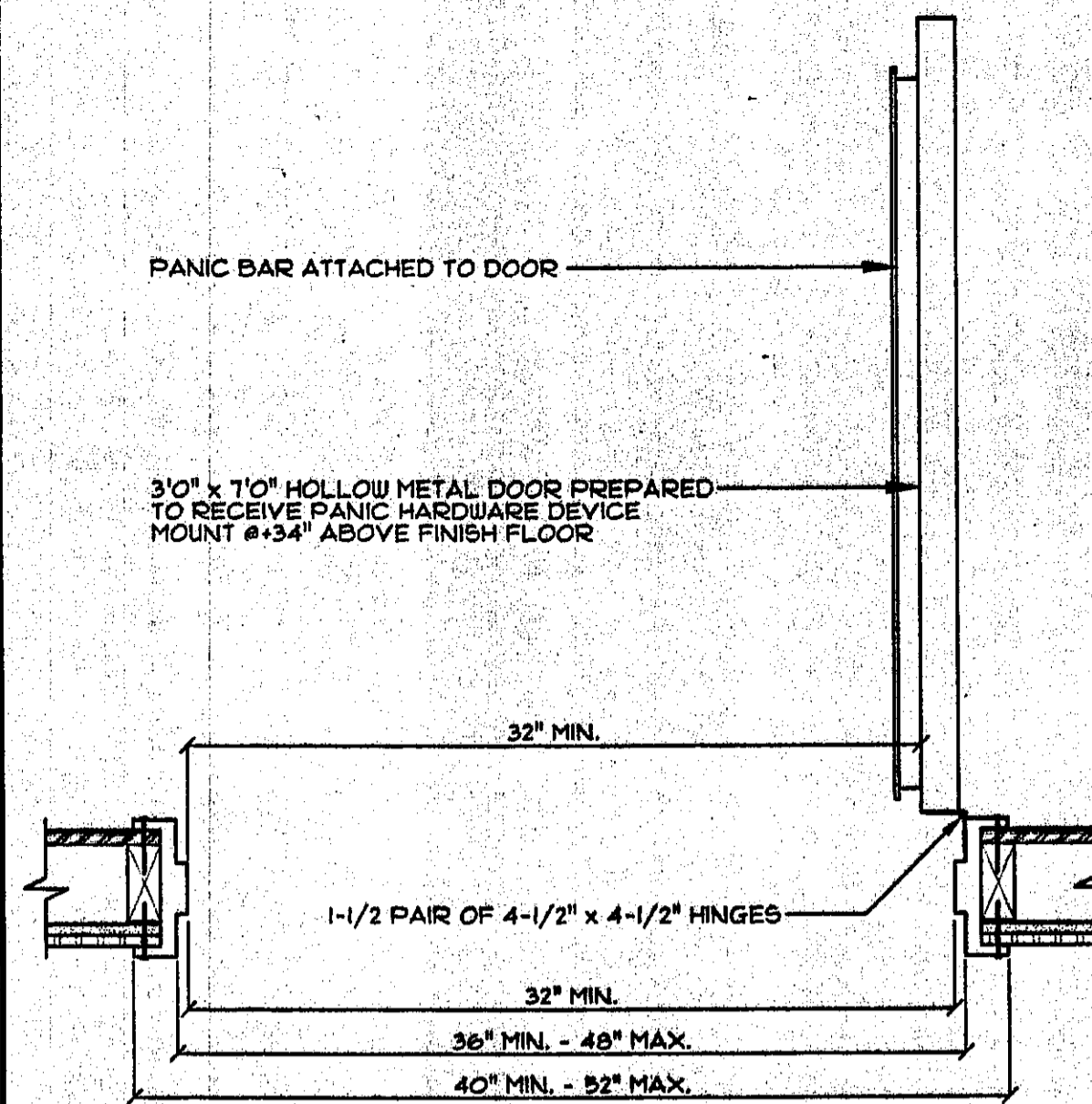
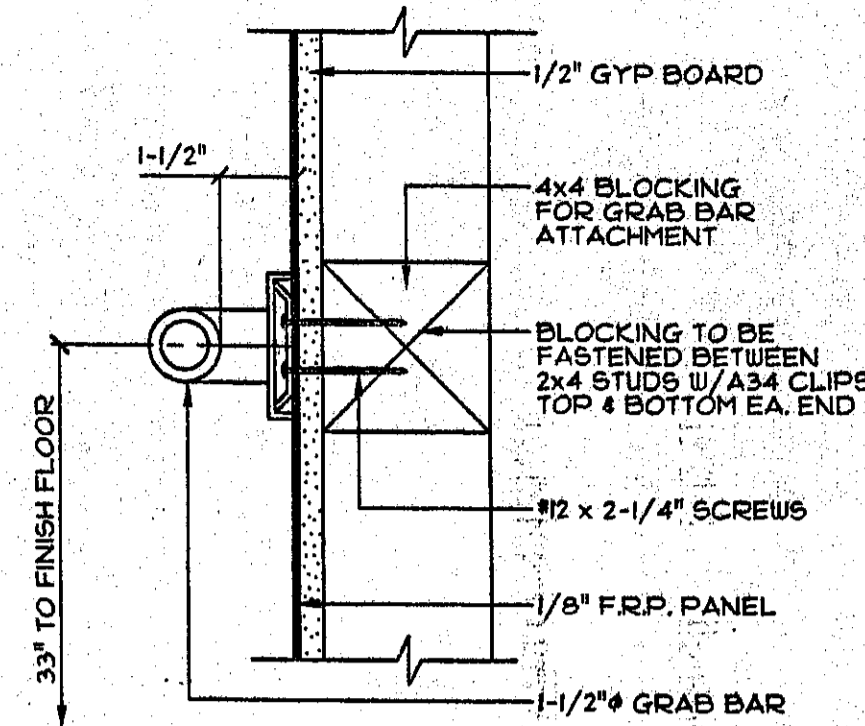
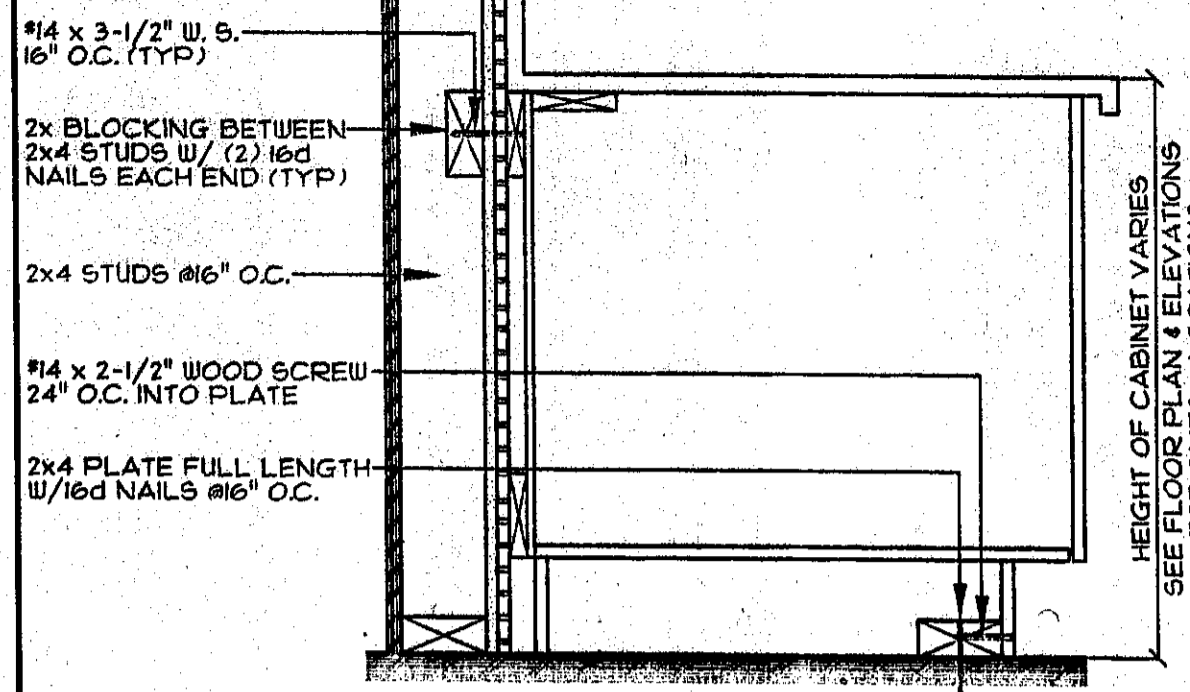
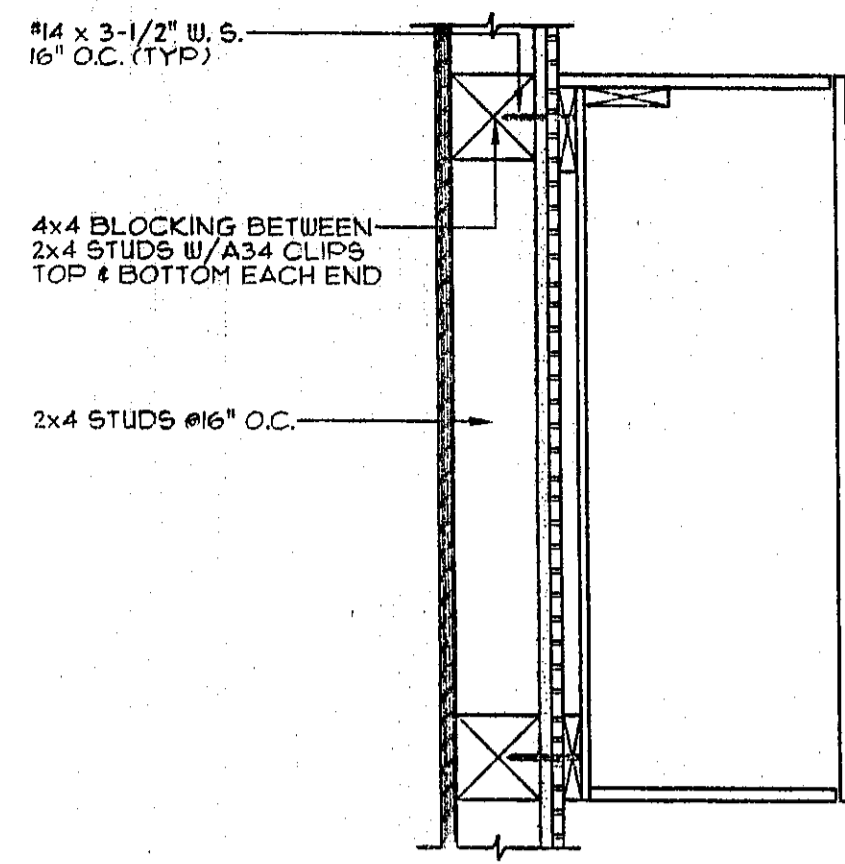
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A4





NOTE: DOOR LEADING INTO A UNIBEX FACILITY SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK AND 12" IN DIAMETER WITH A 1/4" THICK TRIANGLE SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12" DIAMETER. THE GEOMETRIC SYMBOLS SHALL BE CENTERED ON THE DOOR AT A HEIGHT OF 66" AND THEIR COLOR AND CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR (C.B.C. SECTION 1155.5)

OR

THE DOOR LEADING INTO BOY'S FACILITY SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE 1/4" THICK WITH EDGES 12" LONG AND A VERTEX POINTING UPWARD. THE DOOR LEADING INTO GIRL'S FACILITY SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK AND 12" IN DIAMETER. THE GEOMETRIC SYMBOLS SHALL BE CENTERED ON THE DOOR AT A HEIGHT OF 66" AND THEIR COLOR AND CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR (C.B.C. SECTION 1155.5)

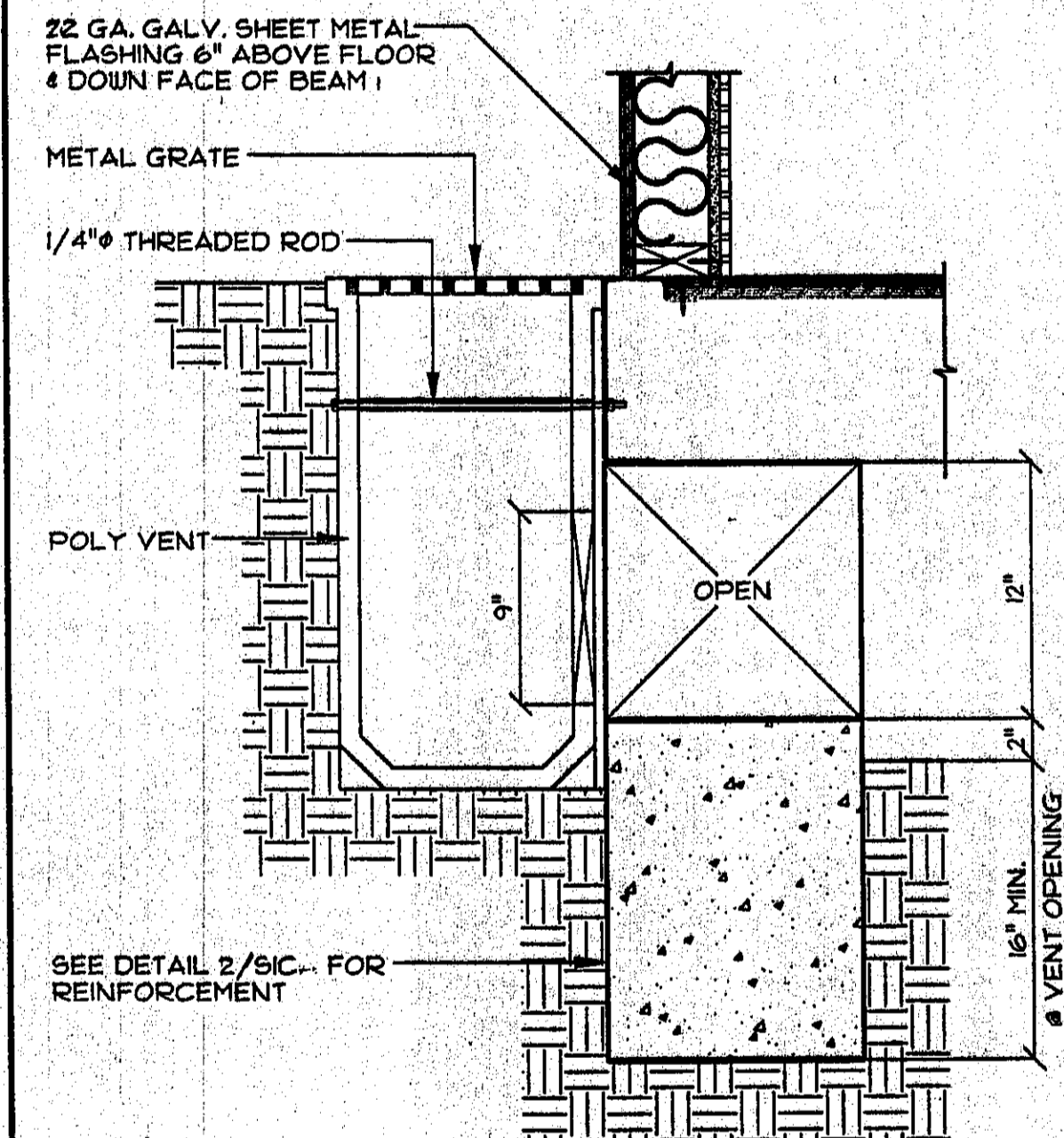
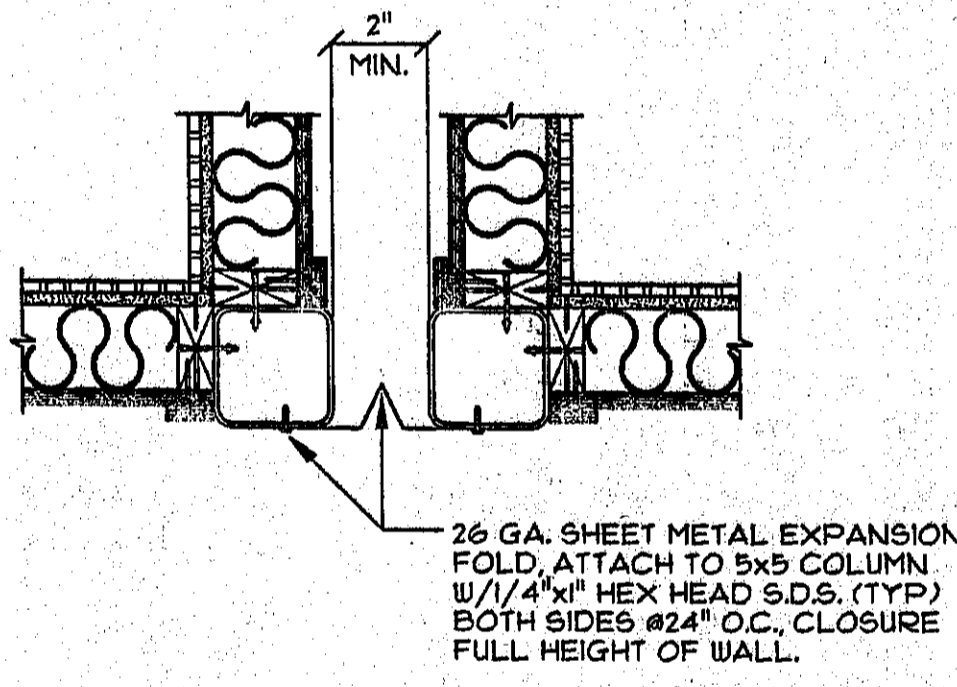
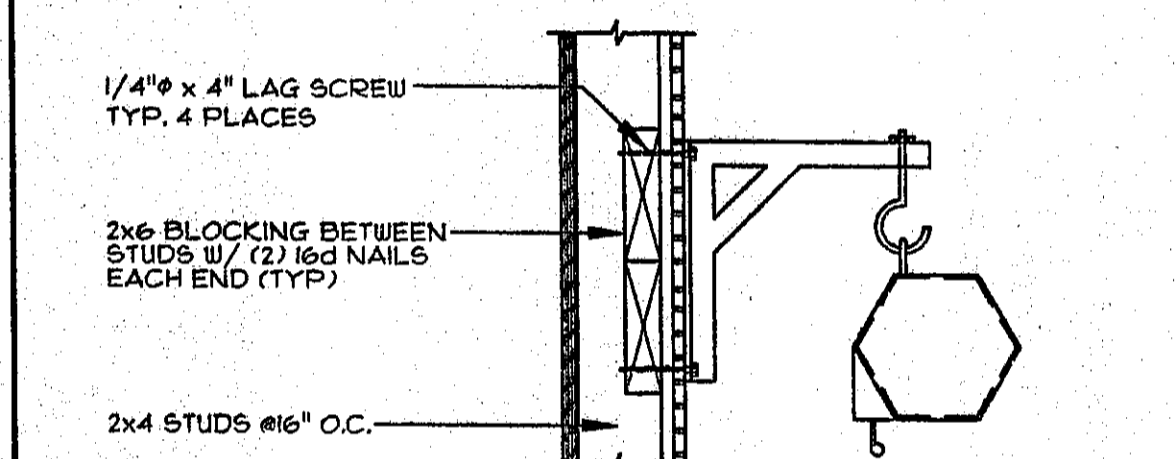
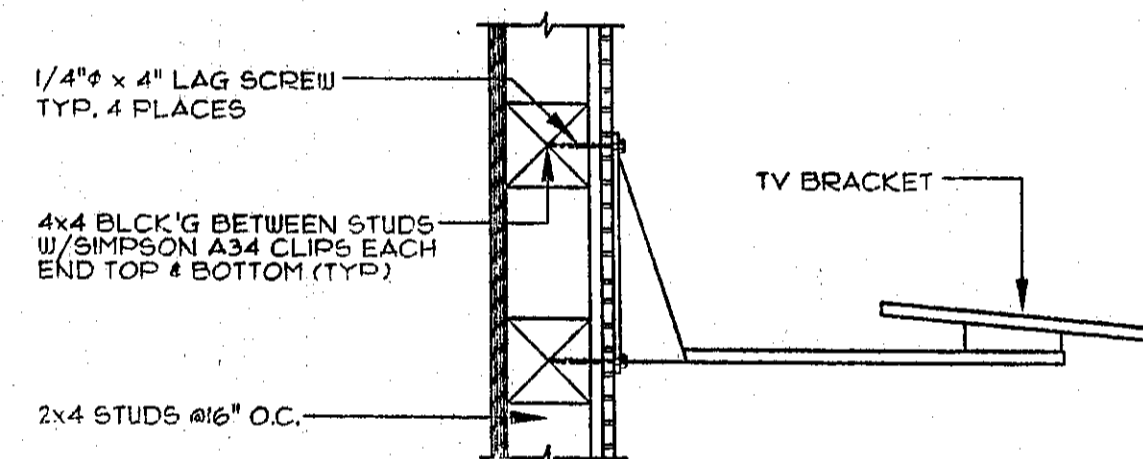
1 UPPER CABINET BLOCKING DETAIL  
SCALE: 1-1/2" = 1'-0"

2 BASE CABINET BLOCKING DETAIL  
SCALE: 1-1/2" = 1'-0"

3 GRAB BAR BLOCKING DETAIL  
SCALE: 1-1/2" = 1'-0"

4 PANIC HARDWARE DETAIL  
SCALE: 1-1/2" = 1'-0"

5 RESTROOM DOOR SIGNAGE DETAIL  
SCALE: 1/4" = 1'-0"



6 TV BRACKET BLOCKING DETAIL  
SCALE: 1-1/2" = 1'-0"

7 PROJECTOR SCREEN BLOCKING DETAIL  
SCALE: 1-1/2" = 1'-0"

8 CLOSURE PANEL DETAIL  
SCALE: 1-1/2" = 1'-0"

9 POLY VENT DETAIL  
SCALE: 1-1/2" = 1'-0"

10 DIVISION OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
02 105136  
AC 1 FLS 84  
DATE 11/19/99

PC  
IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
02-101236  
AC 1 FLS 84 SS 2002  
DATE 11/19/99

DESIGN CRITERIA  
ROOF: DEAD LOAD - 10.0 PSF  
ROOF: LIVE LOAD - 20.0 PSF (SNOW)  
FLOOR: DEAD LOAD - 8.0 PSF  
(CLASSROOM) 1st & 2nd FLOOR: LIVE LOAD - 50.0 PSF  
(OFFICE) 1st & 2nd FLOOR: LIVE LOAD - 70.0 PSF  
(OPTIONAL 1ST FLR) FLOOR: LIVE LOAD - 125.0 PSF  
WALLS: DEAD LOAD - 9.0 PSF  
WIND: 80 MPH; EXPOSURE: C  
qs = 16.4 PSF; Ce & Cq AS REQ.  
SEISMIC ZONE 4, R=4.5, Ms=1.5, Ns=2.0, Cs=0.44, Cg=0.84, Cd=2.0

REVISION DATE: BY:

DATE:

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

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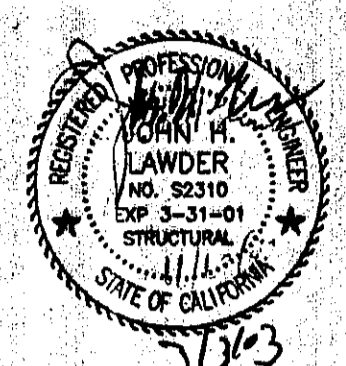
12

13

15

16 APPROVALS

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WOODBRIDGE, CA 92394  
(714) 521-1145 FAX (714) 521-1148



ENVIROPLEX, INC.  
4777 E. CARPENTER ROAD STOCKTON, CA 95215

DETAILS

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DATE:

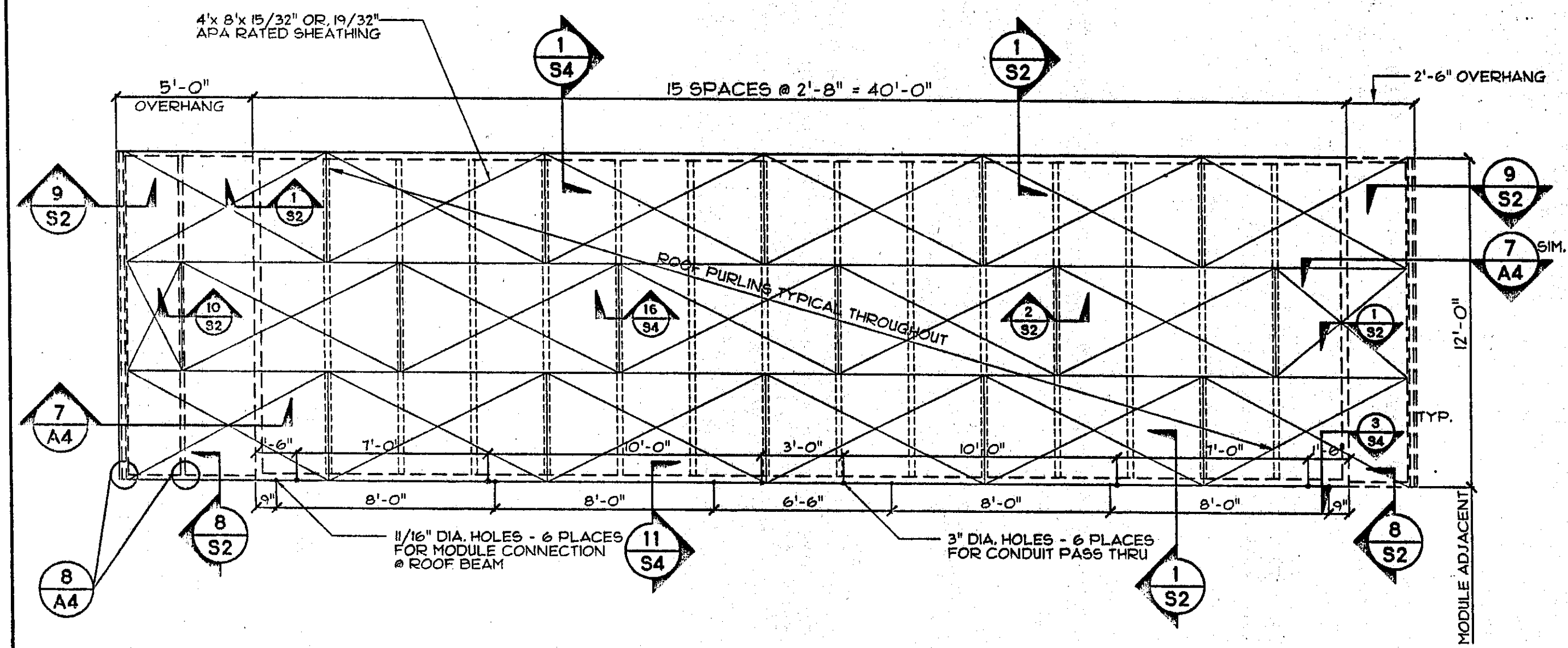
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A5

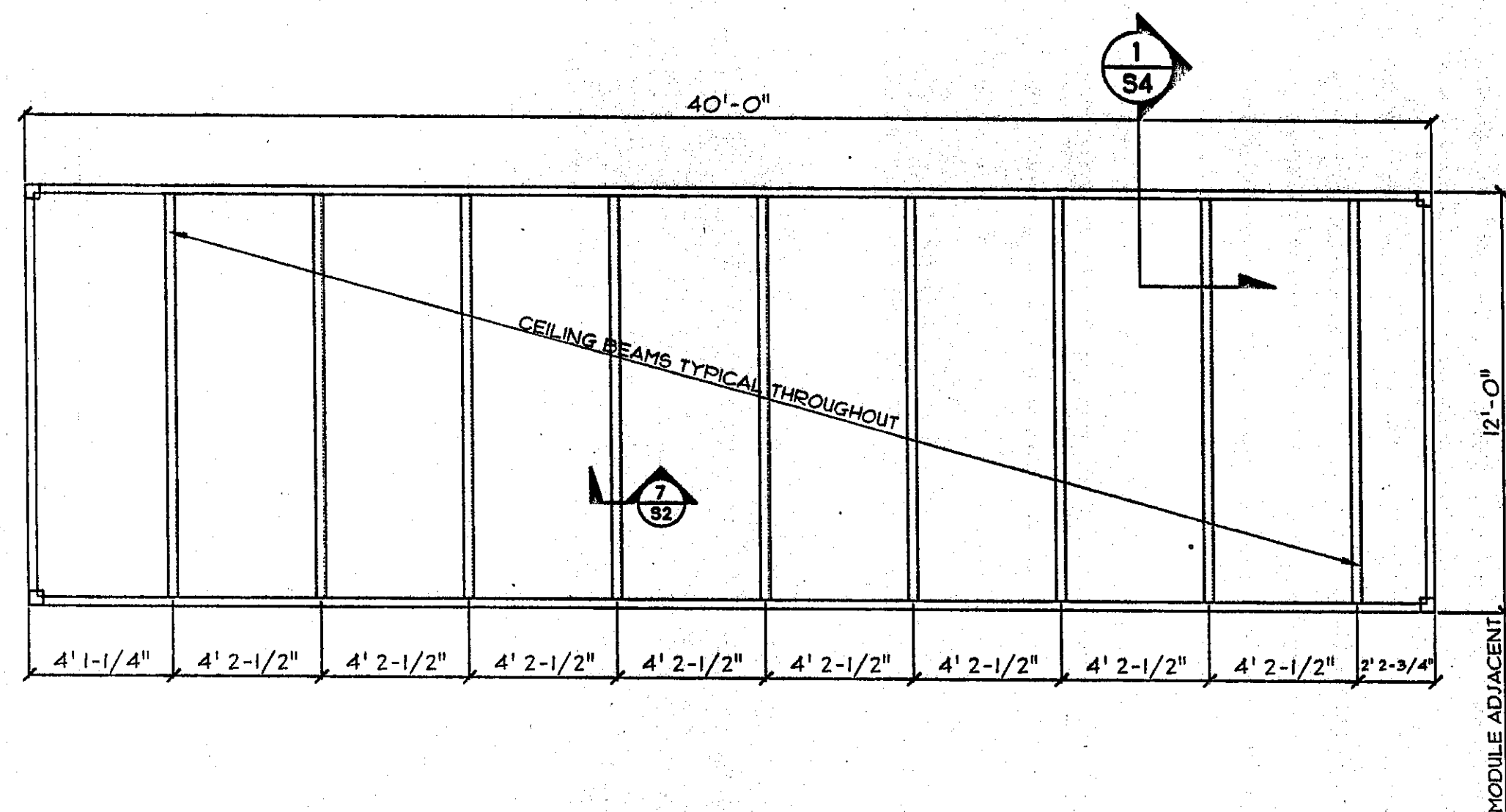




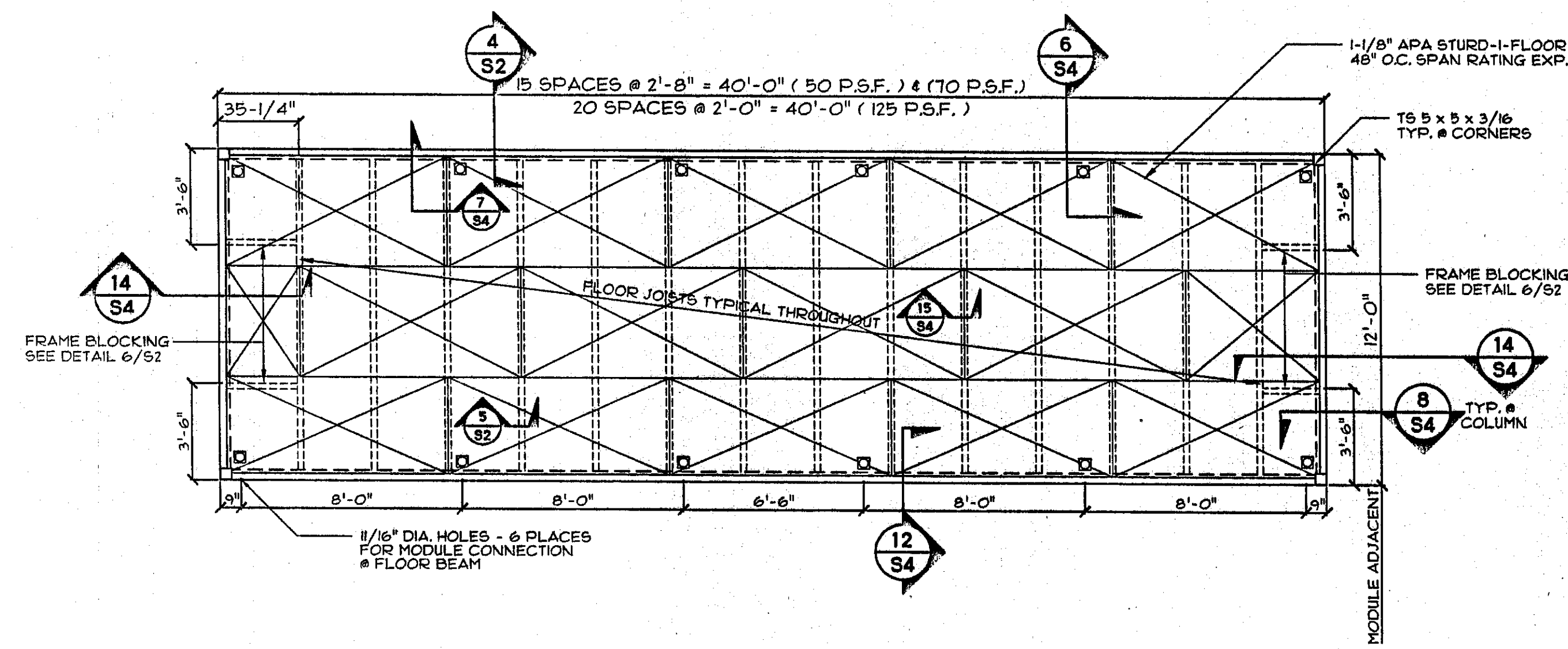




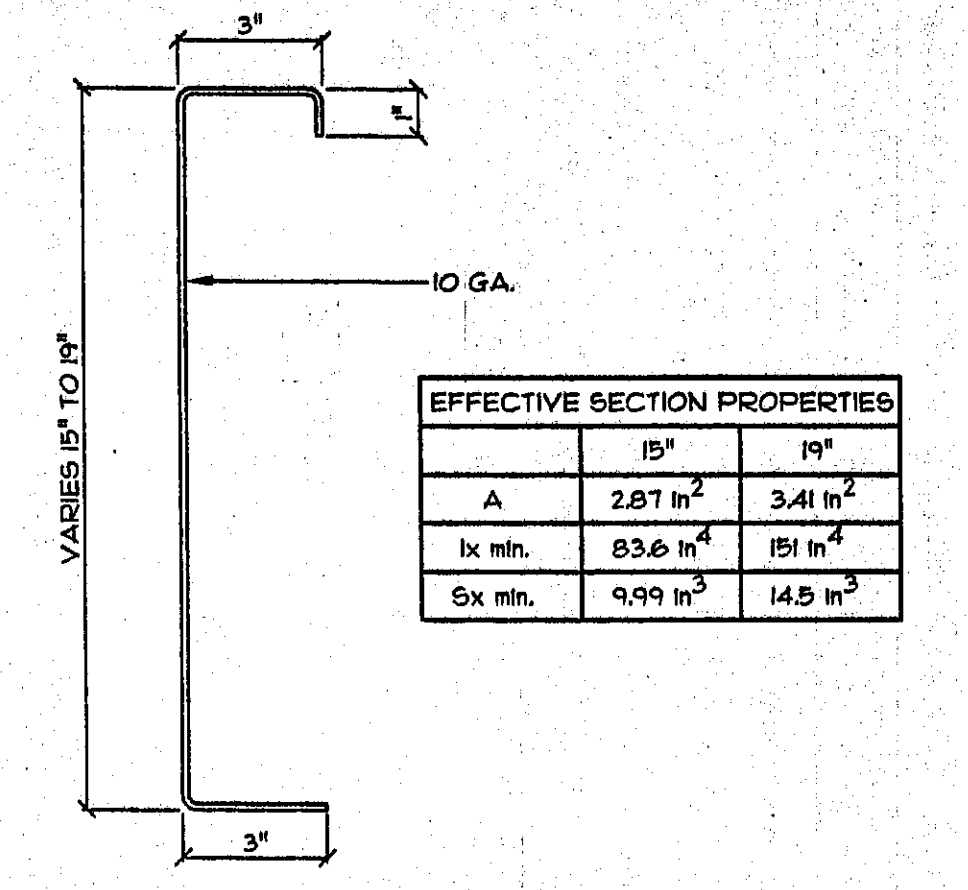
**13 ROOF FRAMING PLAN**  
SCALE: 1/4"=1'-0"



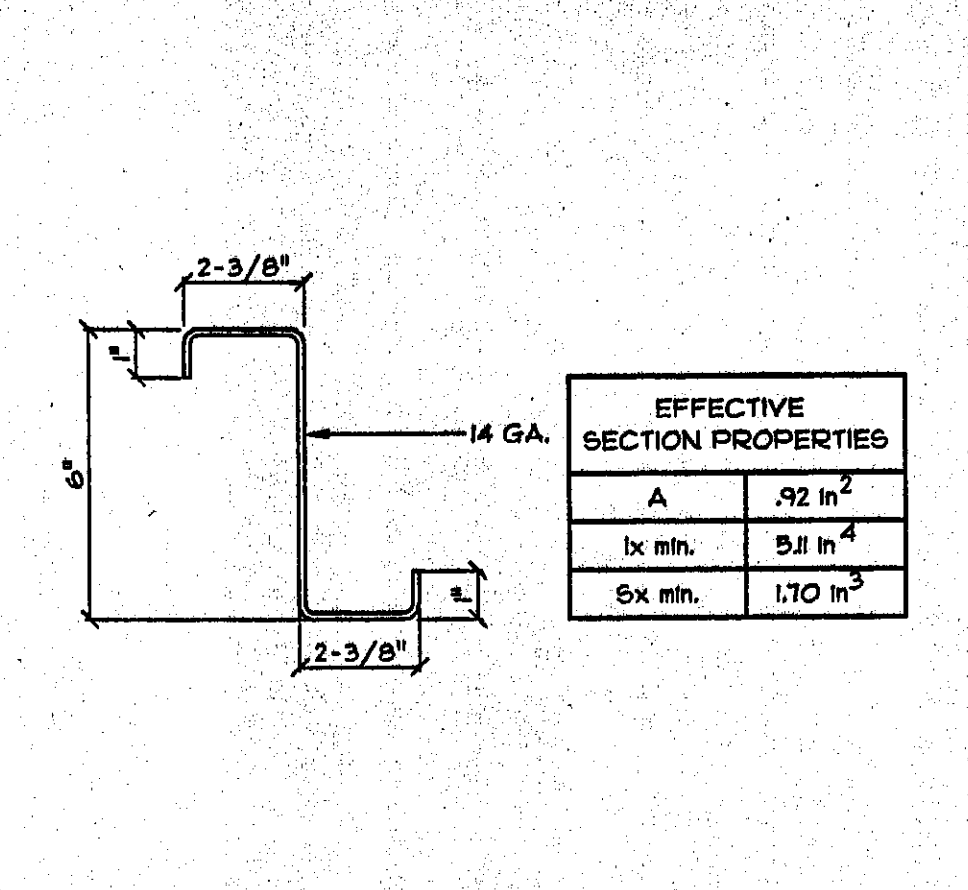
**14 CEILING FRAMING PLAN**  
SCALE: 1/4"=1'-0"



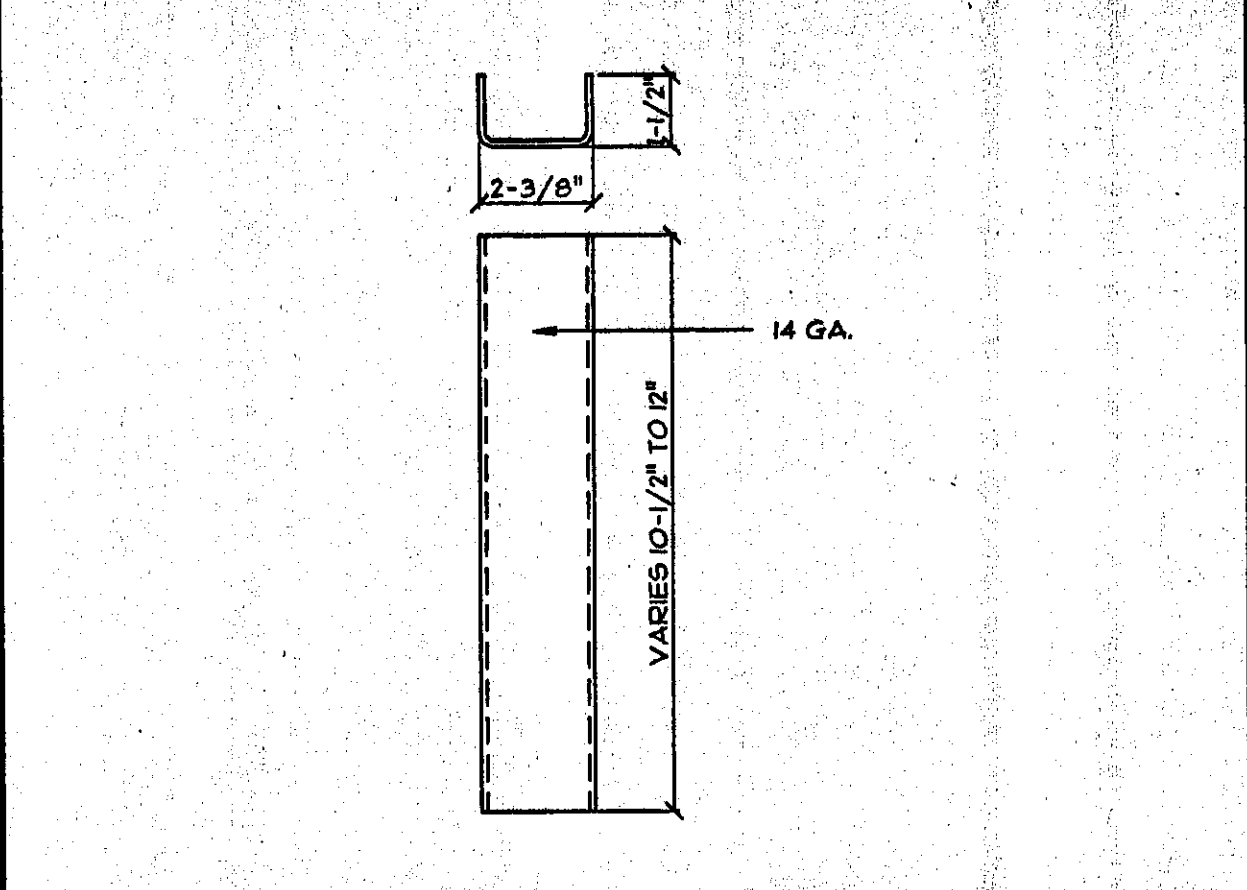
**15 FLOOR FRAMING PLAN**  
SCALE: 1/4"=1'-0"



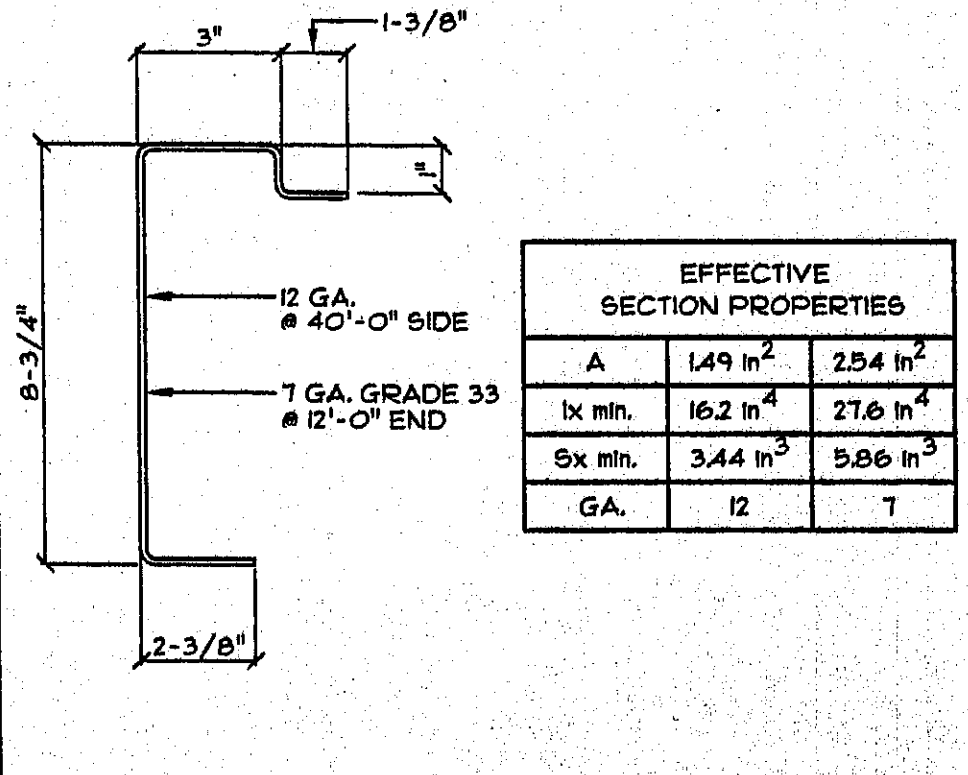
**1 ROOF BEAM SECTION**  
SCALE: 3/4"=1'-0"



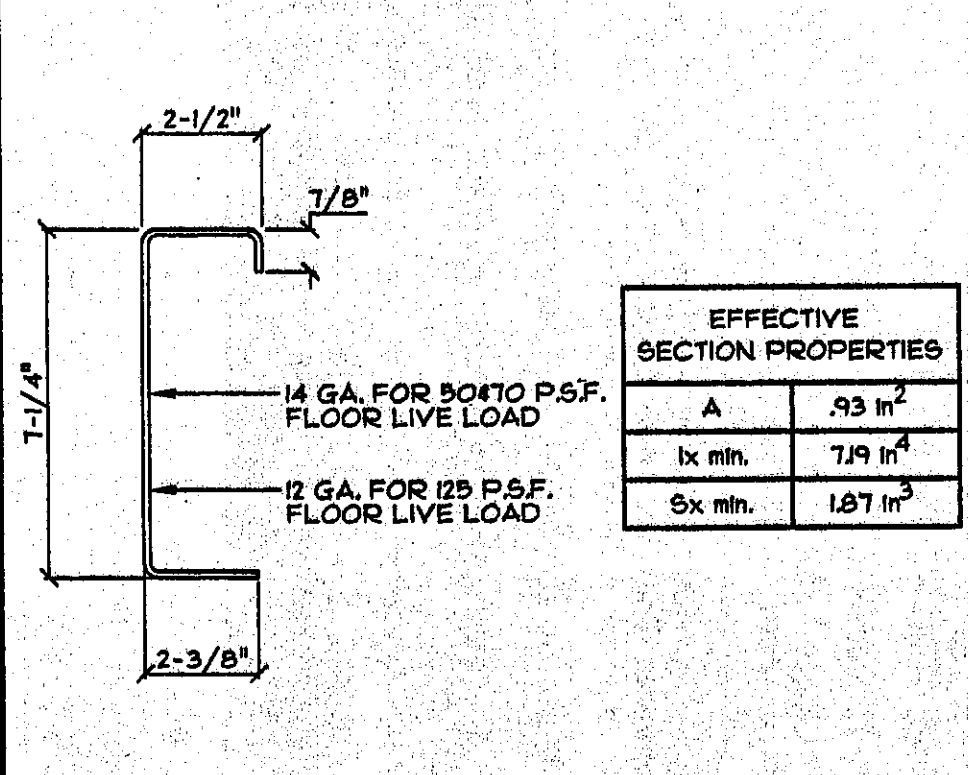
**2 ROOF PURLIN SECTION**  
SCALE: 3/4"=1'-0"



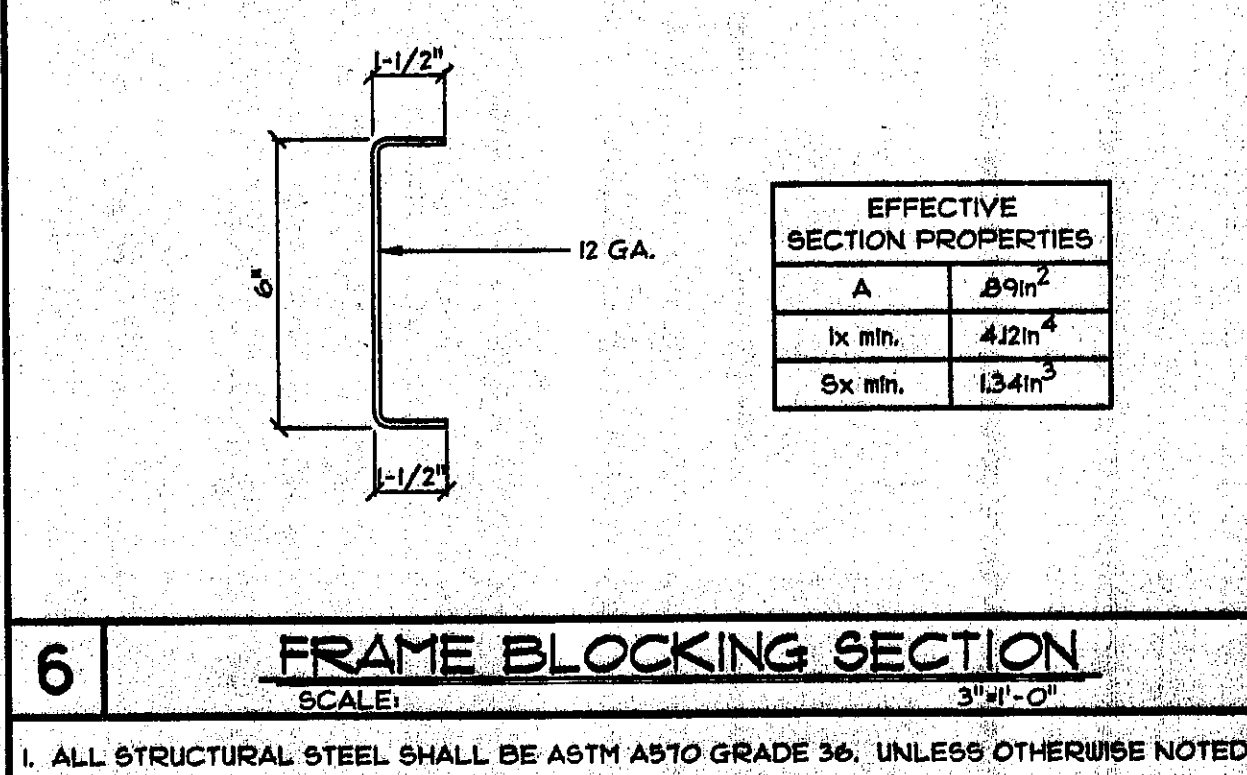
**3 ROOF BEAM STIFFENER**  
SCALE: 3/4"=1'-0"



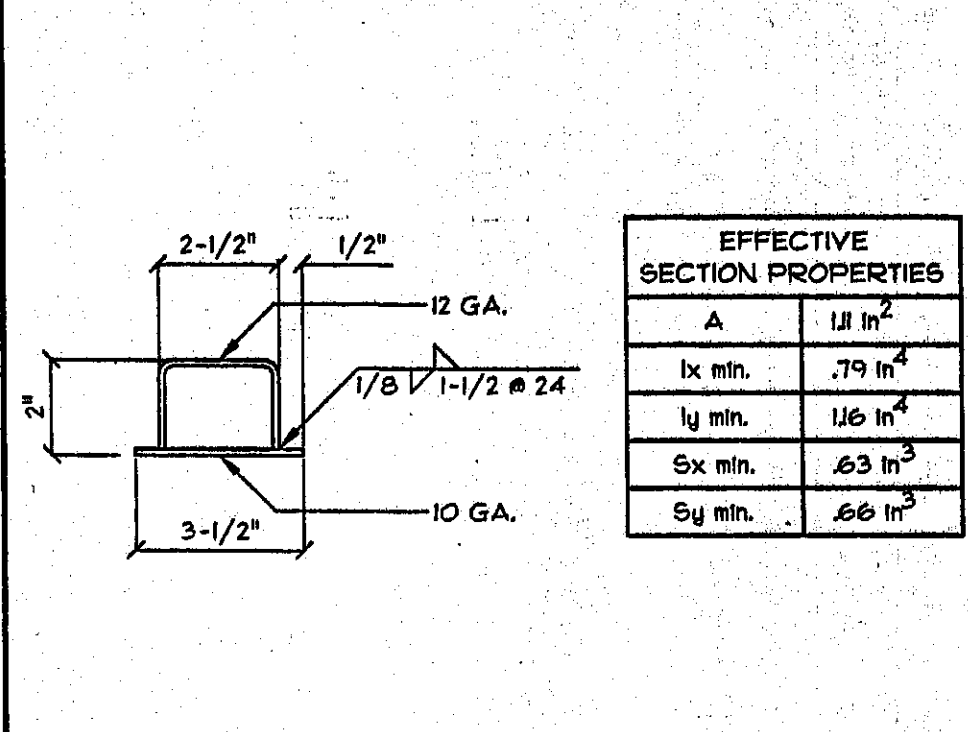
**4 FLOOR BEAM SECTION**  
SCALE: 3/4"=1'-0"



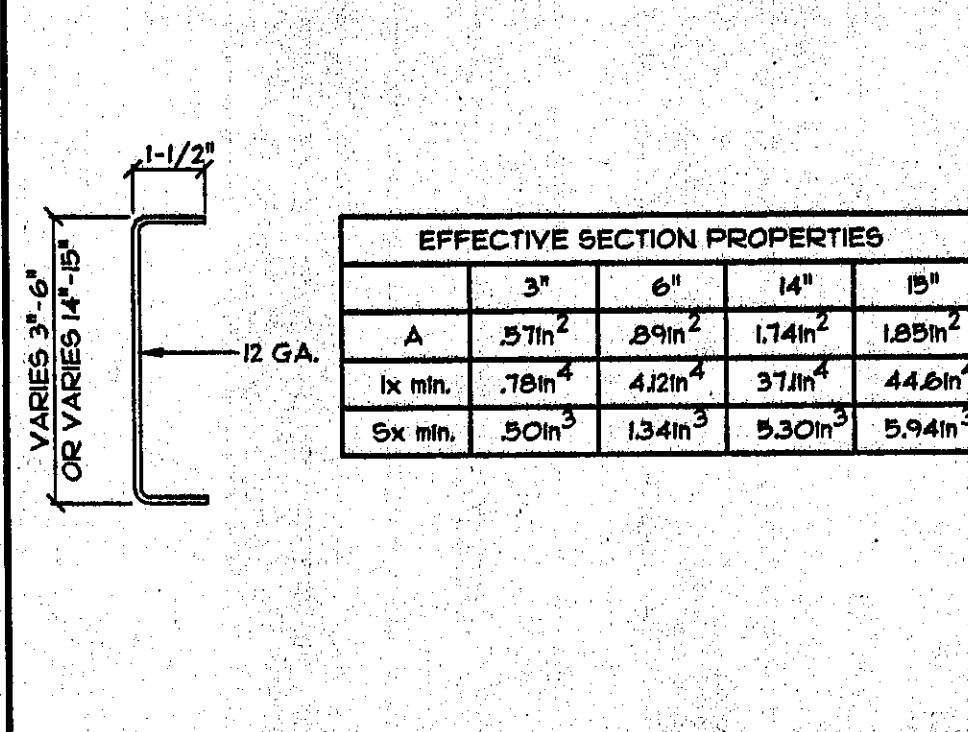
**5 FLOOR JOIST SECTION**  
SCALE: 3/4"=1'-0"



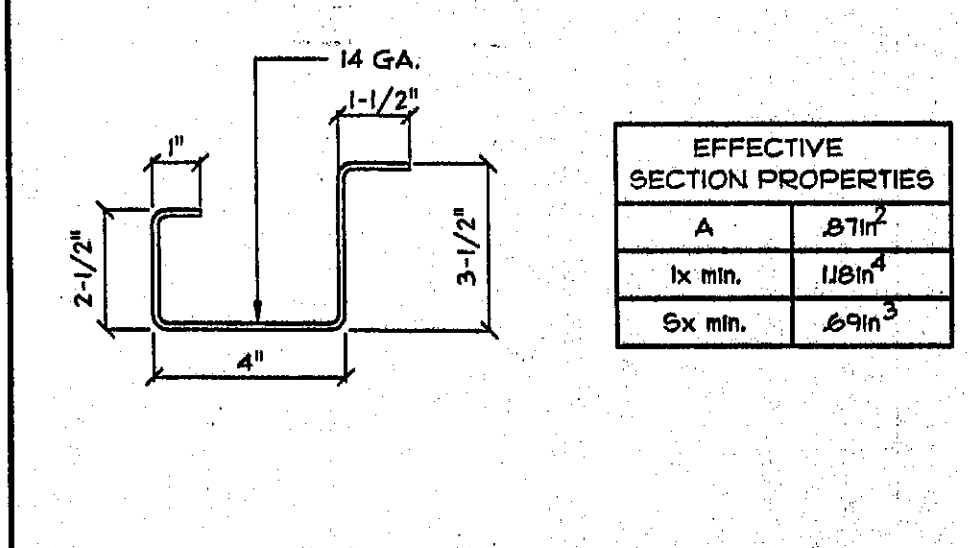
**6 FRAME BLOCKING SECTION**  
SCALE: 3/4"=1'-0"



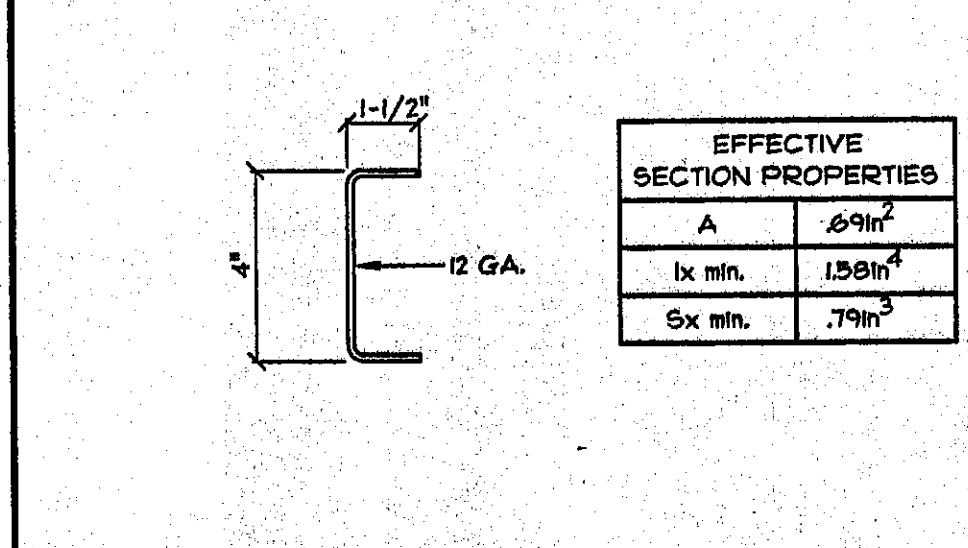
**7 CEILING BEAM SECTION**  
SCALE: 3/4"=1'-0"



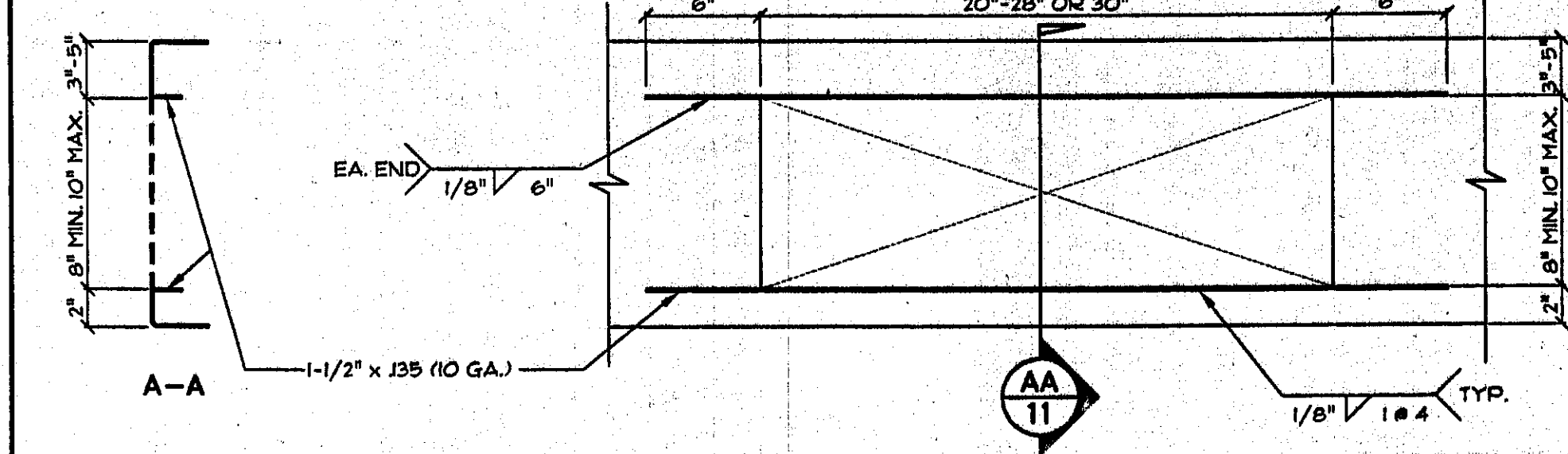
**8 OVERHANG BEAM SECTION**  
SCALE: 3/4"=1'-0"



**9 GUTTER BEAM SECTION**  
SCALE: 3/4"=1'-0"



**10 INTERMEDIATE CHANNELS**  
SCALE: 3/4"=1'-0"



**11 HVAC HOLE @ ROOF BEAM**  
SCALE: 1-1/2"=1'-0"

**STEEL SPECIFICATION**

- ALL STRUCTURAL STEEL SHALL BE ASTM A570 GRADE 36, UNLESS OTHERWISE NOTED
- STRUCTURAL STEEL TUBING SHALL BE ASTM A500 GRADE B Fy=46
- HIGH STRENGTH BOLTS SHALL BE ASTM A325.
- ALL MACHINE BOLTS SHALL BE ASTM A307.
- WELDING SHALL BE DONE PER C.B.C. SECTION 2205A10 & AWS D 11.4D13.
- WELDING INSPECTION TO BE PER C.B.C. SECTION 2231A.5
- SEE TESTS AND INSPECTIONS REPORT SHEET AO FOR REQUIREMENTS.
- LIGHT GAGE METAL & FRAMING THICKNESSES

GAGE	DESIGN THICKNESS	MIN. DELIVERED THICKNESS
7 GA. STEEL	.793"	.770"
10 GA. STEEL	.1345"	.128"
12 GA. STEEL	.1046"	.0994"
14 GA. STEEL	.0741"	.0710"

6. MINIMUM STEEL THICKNESS SHALL NOT BE LESS THAN 95% OF THE DESIGN THICKNESS  
9. PER C.B.C. SECTION 2217A

**SHEATHING / PLYWOOD SPECIFICATION**

- ALL STRUCTURAL PLYWOOD SHALL BE MANUFACTURED TO C.B.C. STANDARD 23-2 (BASED ON PRODUCT STANDARD PSI-95) AND INSPECTED AND GRADE MARKED AT THE MILL BY AN APPROVED QUALITY CONTROL AGENCY SUCH AS APA OR TECO.
- ROOF SHEATHING SHALL BE 4'x 8'x 15/32" GRADE MARKED 32/16 SPAN INDEX, EXP. I OR 19/32" GRADE MARKED 40/20 SPAN INDEX, EXP. I.
- FLOOR SHEATHING SHALL BE 4'x 8'x 1-1/8" T & G APA RATED UNDERLAYMENT GRADE DOUGLAS FIR GROUP I STURD-I-FLOOR, SPAN RATING = 48".
- WALL SHEATHING SHALL BE 5/8" MASONITE HARDBOARD SIDING APA EXTERIOR TYPE 303 GROUP II M.D.O., EXTERIOR GROUP II OR OPTIONAL 5/8" T-II APA EXTERIOR SIDING.
- SEE 2/53 FOR FASTENER SCHEDULE

**APPROVALS**

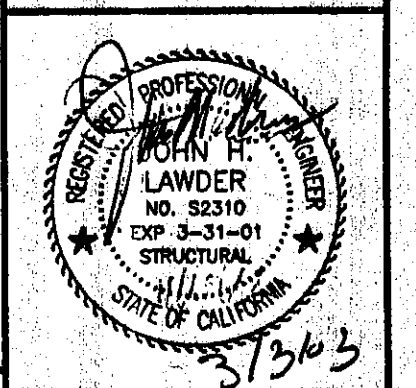
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
02-105136  
DATE: 11/19/99

DESIGN CRITERIA  
ROOF: DEAD LOAD - 8.0 PSF  
ROOF: LIVE LOAD - 20.0 PSF (SNOW)  
FLOOR: DEAD LOAD - 8.0 PSF  
FLOOR: LIVE LOAD - 50.0 PSF  
(OPTIONAL) FLOOR: LIVE LOAD - 70.0 PSF  
(OPTIONAL) FLOOR: LIVE LOAD - 125.0 PSF  
WALLS: DEAD LOAD - 8.0 PSF  
WIND: 80 MPH; EXPOSURE: C  
qs=16.4 PSF; Ce=1.06; Cq AS REQ.  
SEISMIC: ZONE 4R=1.5, Fa=2.5, Fv=1.5, Cw=0.44, Np=2.0, Cw=0.44

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**12 APPROVALS**

JH Lawder, Inc.  
Structural Engineers  
717 16th STREET  
MANSFIELD, OH 44904  
(204) 521-1143  
FAX (204) 521-1186



**ENVIROPLEX, INC.**  
4777 E. CARPENTER ROAD STOCKTON, CA 95215

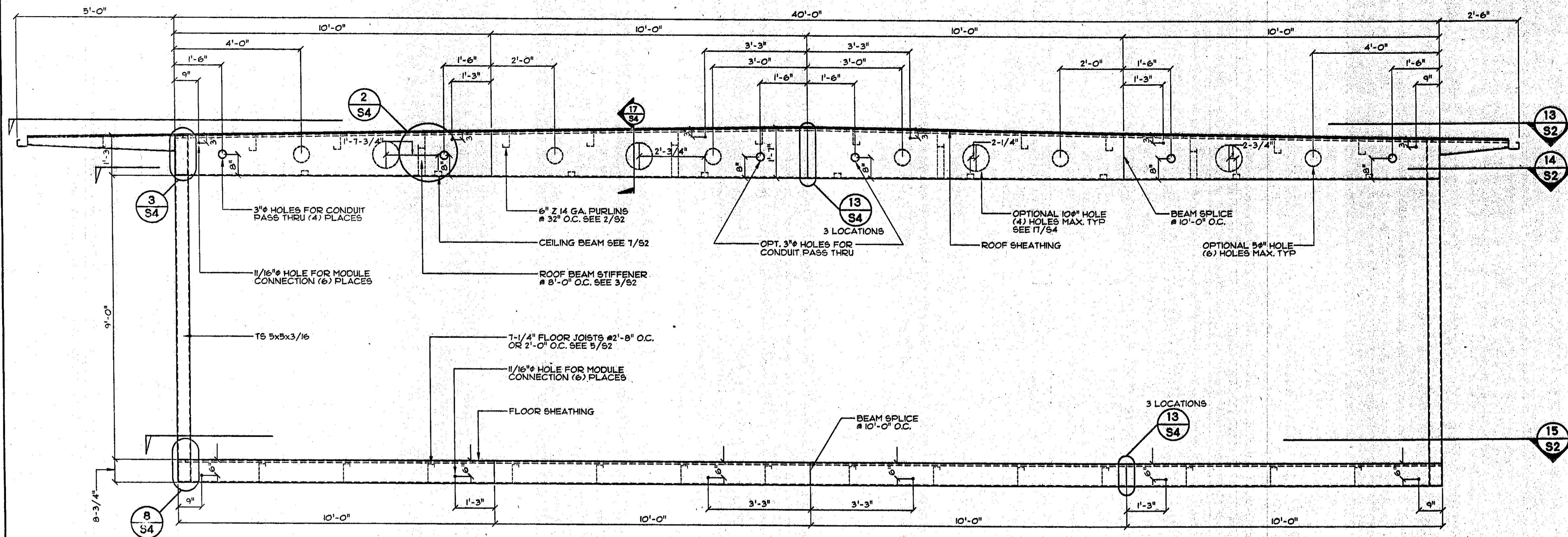
ROOF-CEILING-FLOOR  
FRAMING PLANS  
STRUCTURAL STEEL  
PROPERTIES - NOTES

REVISION DATE:	BY:

DATE: 11/19/99

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION





**WALL TO FRAME FASTENING**

WALL PANEL TOP PLATE TO ROOF BEAM AND TOP PLATE #15" O.C. MAX. BEAM. (1)-1/4" x 2" LAG SCREWS TO PENETRATE THRU 3" x 15" PERIMETER ROOF FLOOR BEAM.

WALL PANEL BOTTOM PLATE TO FLOOR BEAM. (1)-1/8" x 3-1/4" # 8" O.C. THRU BOTTOM PLATE TO FLOOR BEAM. (1)-1/8" FLOOR # TO PENETRATE FLOOR BEAM.

WALL PANEL SIDE STUDS TO 5x5x3/16 COLUMNS. #12-24 x 2-1/2" S.D.S. # 16" O.C. THRU SIDE STUD TO PENETRATE THRU STEEL COLUMN.

TOP AND BOTTOM PLATE TO STUDS AND KING STUDS. (2) .135 x 3-1/4" LONG MACHINE NAIL.

DOUBLE STUDS, TRIMMERS, SILLS AND CRIPPLES FACE NAILED. (1) .135 x 3-1/4" LONG MACHINE NAILS #12" O.C. AND CRIPPLES FACE NAILED.

CRIPPLES, TRIMMERS END NAILED. (2) .135 x 3-1/4" LONG MACHINE NAIL EA. END TO PLATES AND SILLS.

CRIPPLES, TRIMMERS NAILED TO HEADERS. (2) .135 x 3-1/4" LONG MACHINE NAIL NAILED TO HEADERS.

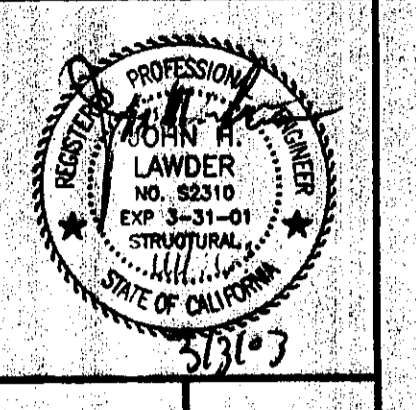
ALL HANGERS, STRAPS, CLIPS TO BE NAILED AS PER MANUFACTURERS SPECIFICATIONS ETC.

**SHEATHING / PLYWOOD NAILING & NOTES**

- DO NOT CRUSH PLYWOOD FACE PLY (OUTER VENEER LAYER) BY OVER DRIVING SCREWS, MACHINE OR HAND NAILS.
- UNDER DRIVEN NAILS SHALL BE CORRECTED BY HAND SET.
- REMOVE AND REPLACE NAILS DRIVEN THAT MISS THE FRAMING OR SUPPORT.
- ALL CORRECTIVE NAILING SHALL BE DONE BY HAND NAILING.
- H.D.G. = HOT DIPPED GALVANIZED WITH MINIMUM COATING OF 1 OZ PER SQ. FT. OF ZINC.

FLOOR	SHEET EDGES	FIELD
1-1/8" APA RATED TAG STURDI-FLOOR TO BEAM & JOISTS	# BEAM & JOIST	144 x 1-3/4" PIN # 6" O.C.
15/32" APA RATED PLYWOOD TO PURLINS & BEAMS (OPT. 19/32" PLYWOOD ROOF)	# BEAM & PURLIN	144 x 1-1/4" PIN # 6" O.C.
	FIELD # PURLIN	144 x 1-1/4" PIN # 12" O.C. (ICBO 4144)
SIDING	SHEET EDGES	FIELD
3/8" EXTERIOR SIDING TO 2x4 STUDS	13" x 2-1/2" # 6" O.C. H.D.G. NAILS	13" x 2-1/2" # 12" O.C. H.D.G. NAILS
DRYWALL	SHEET EDGES	FIELD
1/2" GYP. BOARD TO 2x4 STUDS	12" x 1-1/2" COATED NAILS # 6" O.C.	12" x 1-1/2" COATED NAILS # 6" O.C.
OVERHANG SOFFIT	SHEET EDGES	FIELD
1/2" APA RATED SHEATHING	# 8 x 1" WOOD SCREW # 6" O.C.	# 8 x 1" WOOD SCREW # 12" O.C.

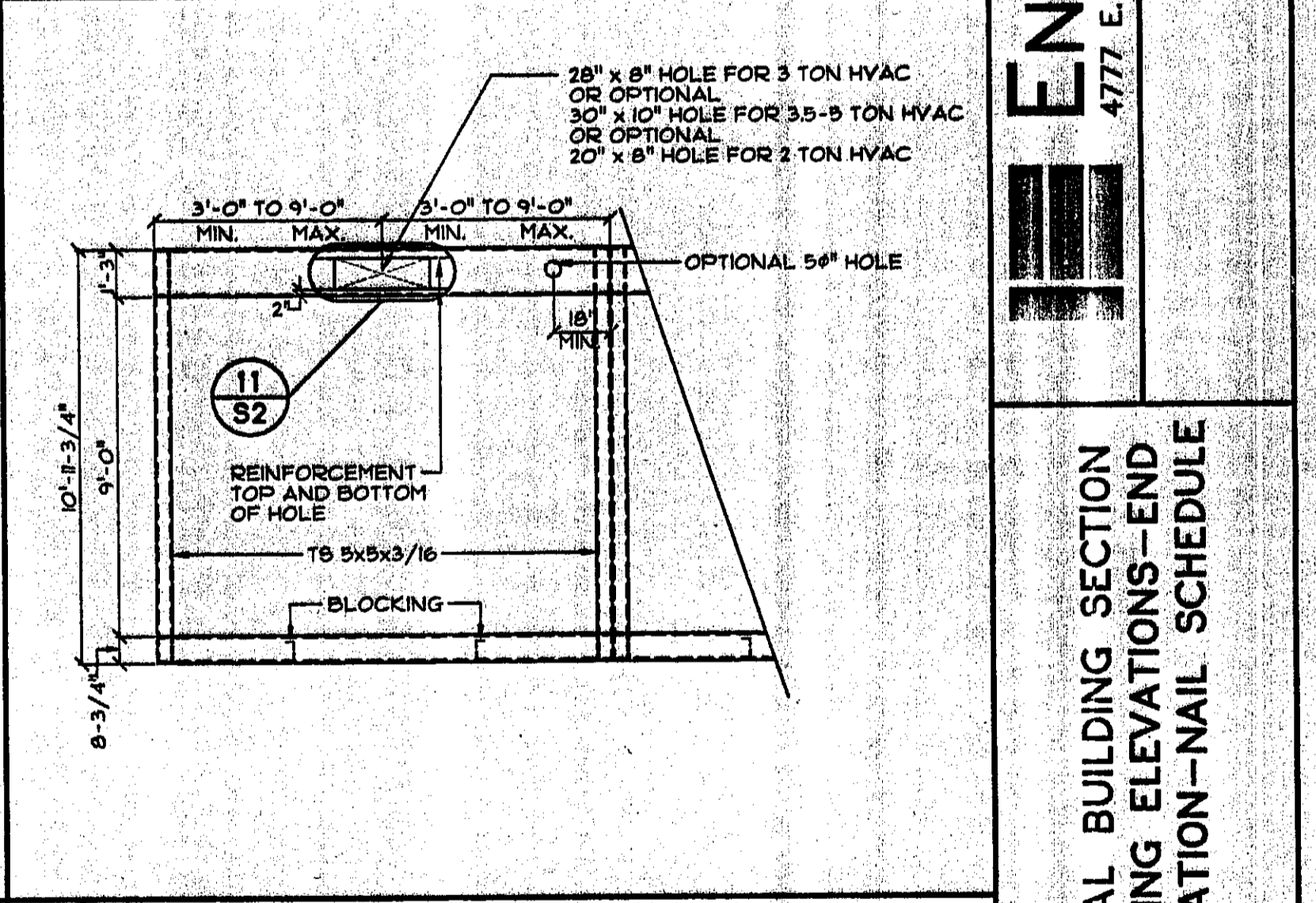
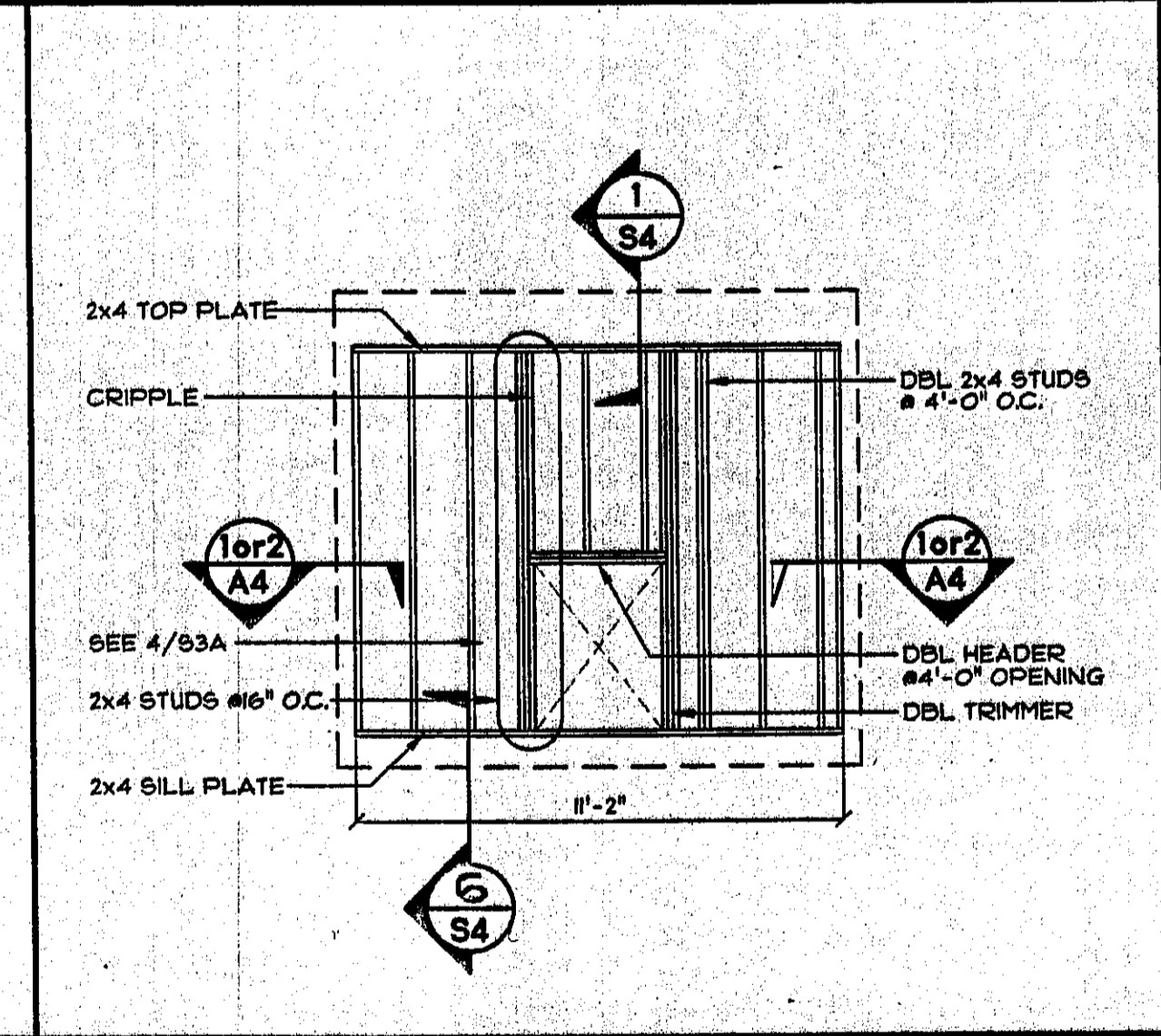
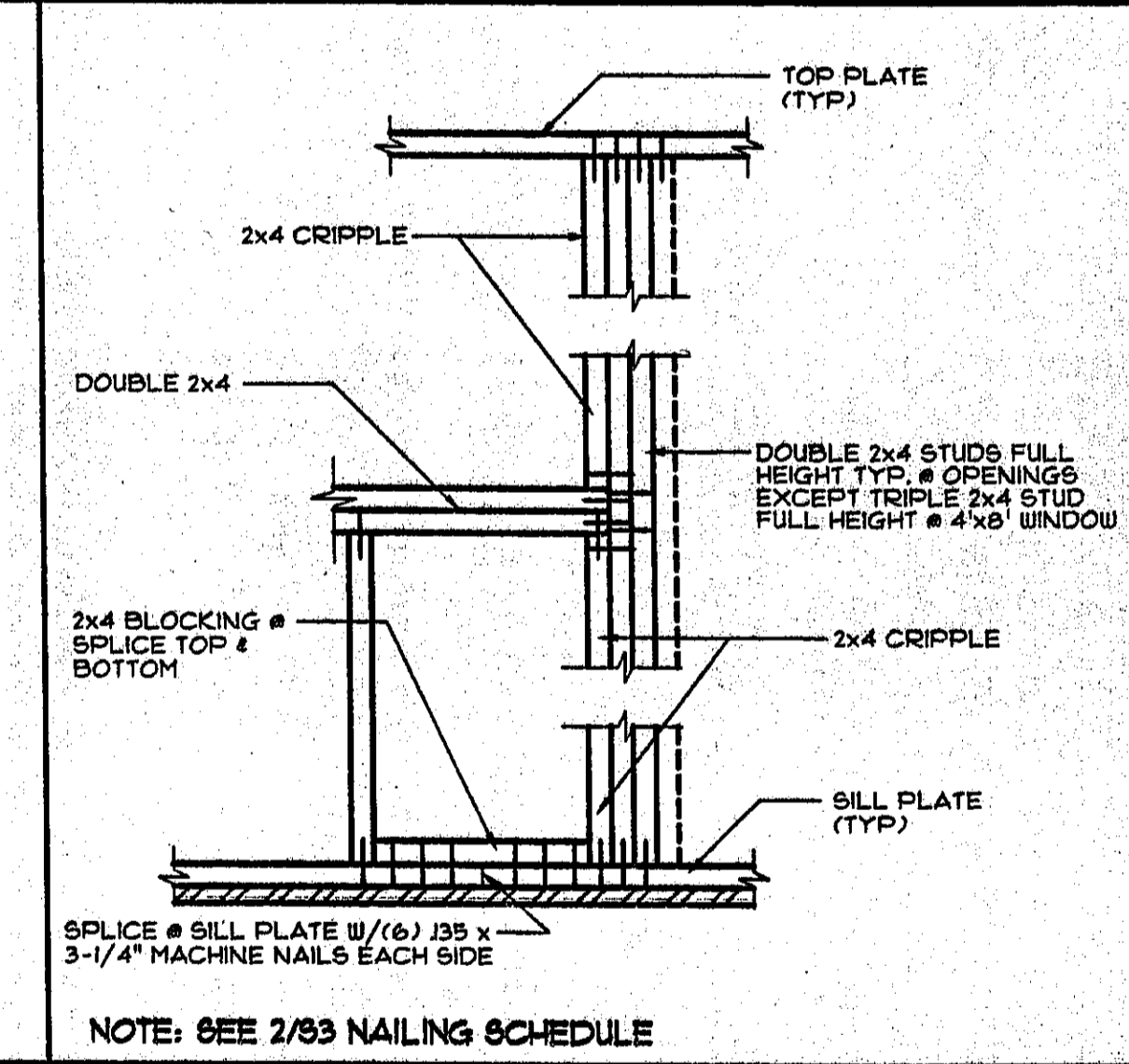
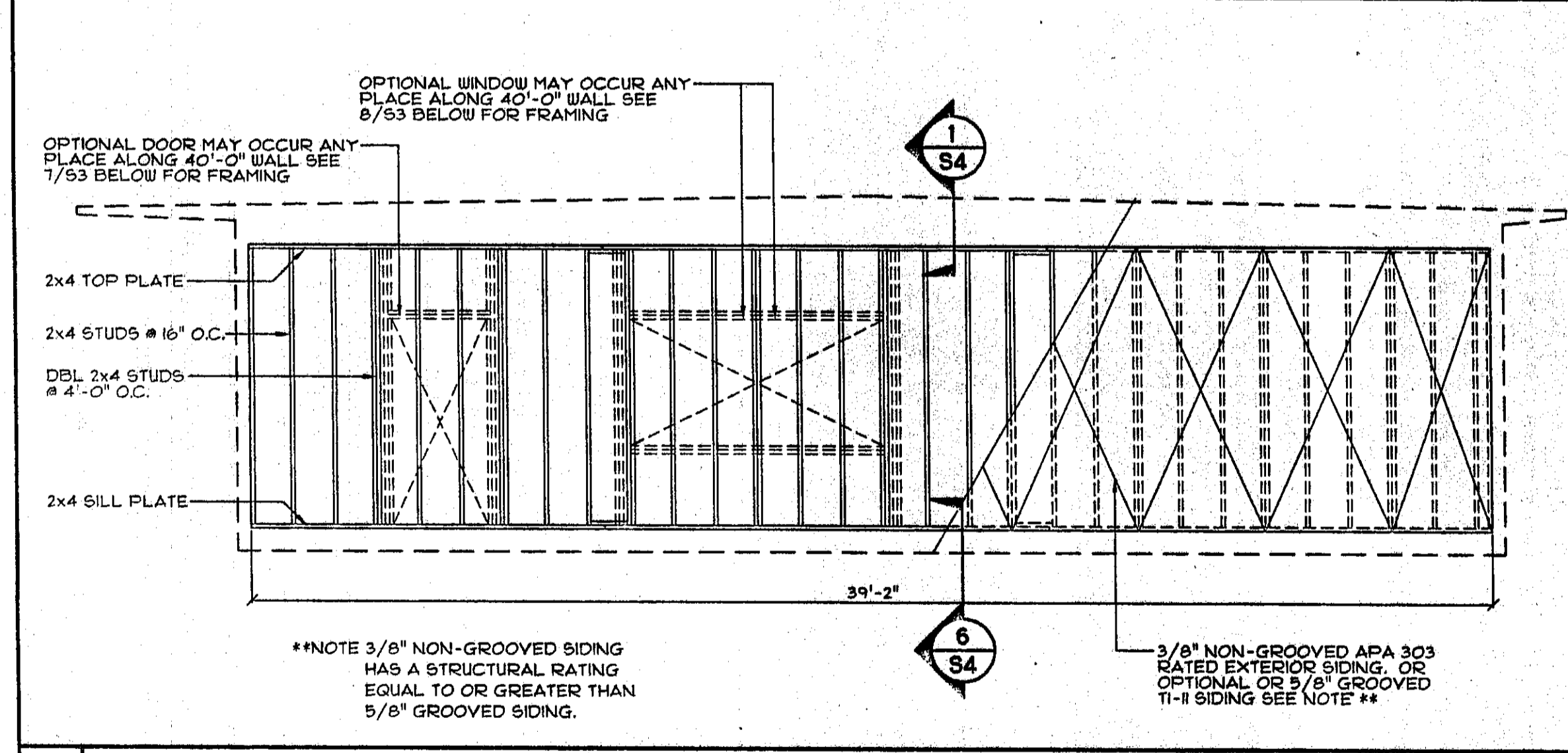
JH Layder, Inc.  
Structural Engineers  
777 10th Street  
Stockton, CA 95210  
(209) 921-1190



**ENVIROPLEX, INC.**  
4777 E. CARPENTER ROAD STOCKTON, CA 95215

**1 LONGITUDINAL TAPERED ROOF BUILDING SECTION**  
SCALE: 1/2" = 1'-0"

**2 NAILING SCHEDULE**

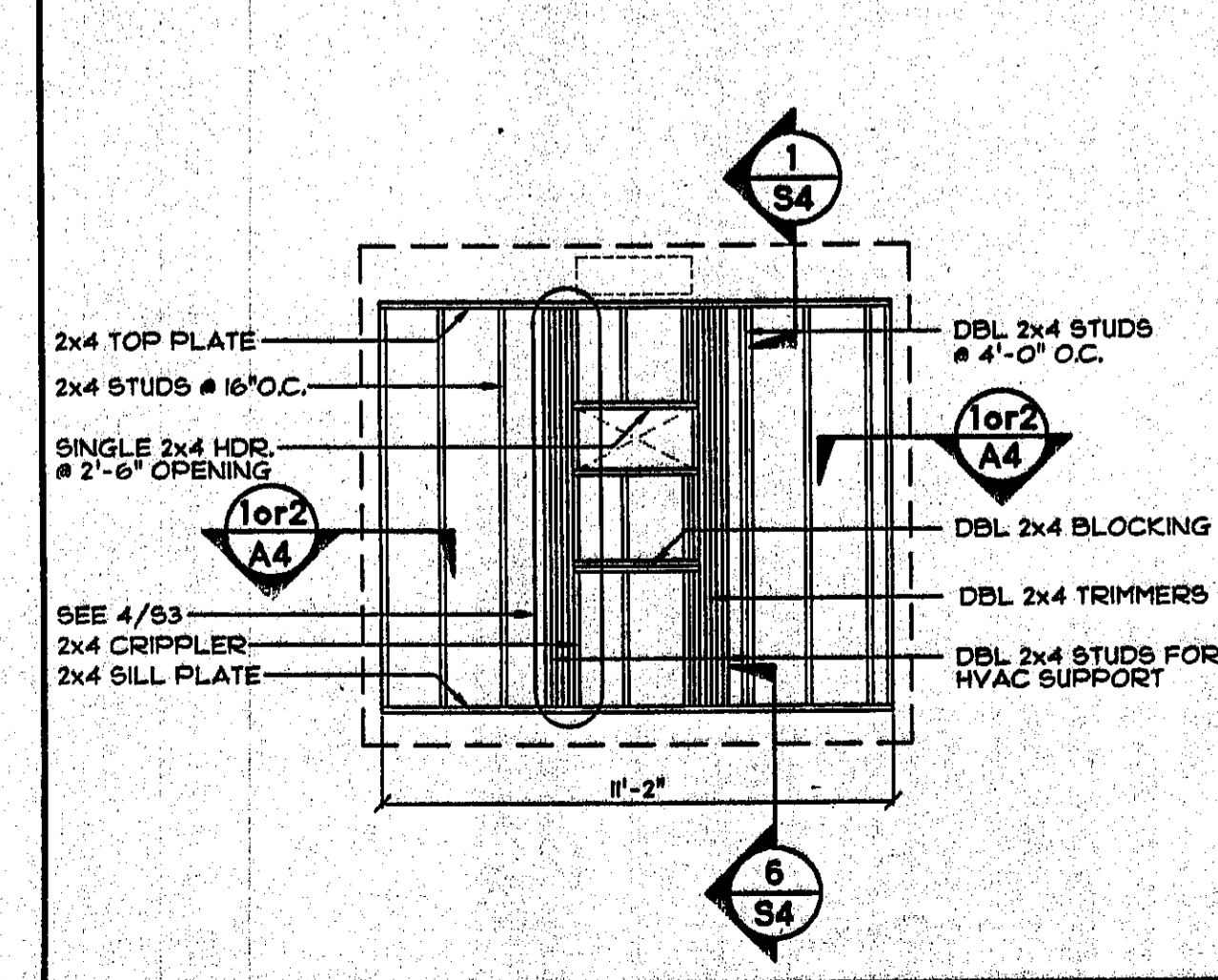
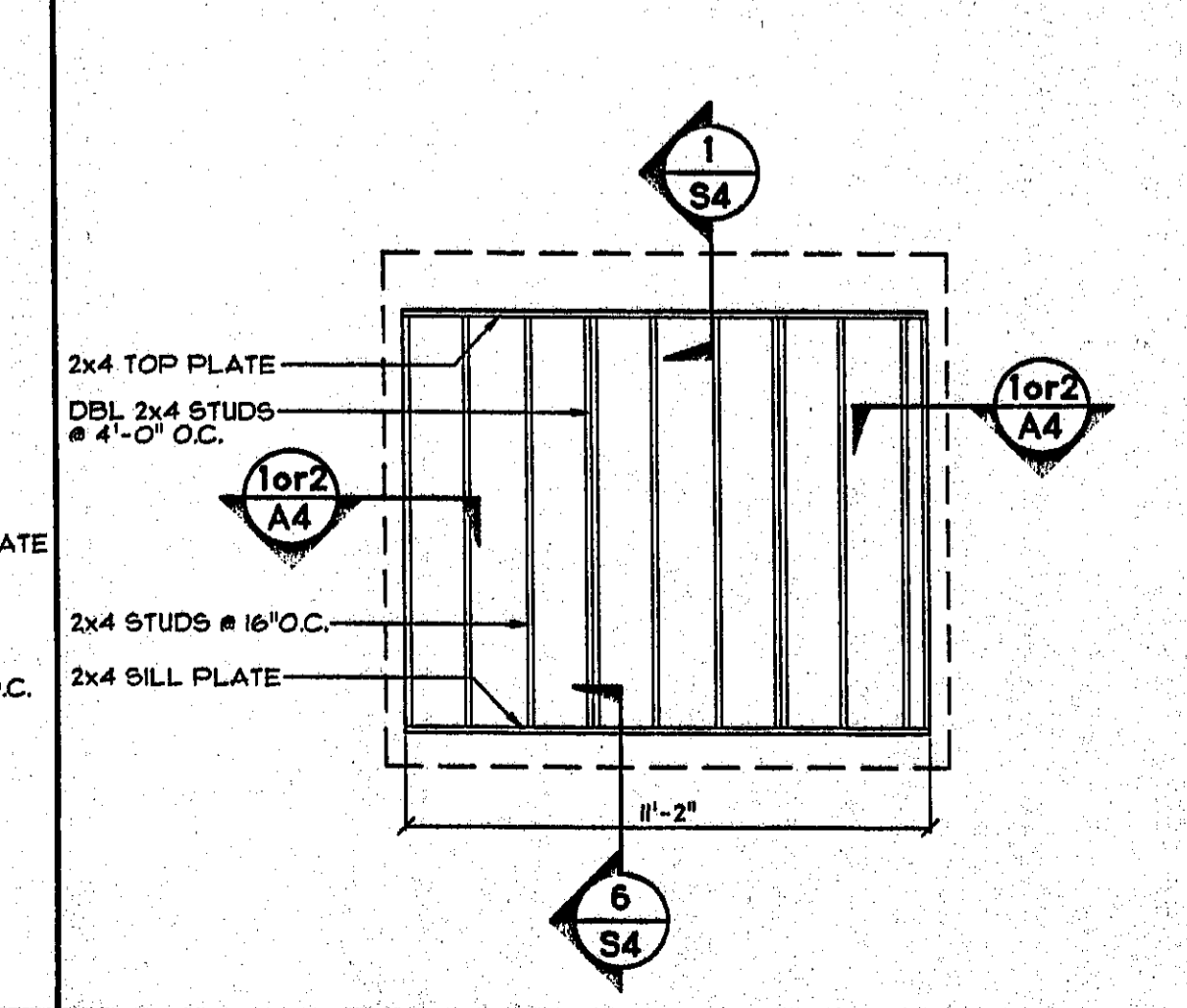
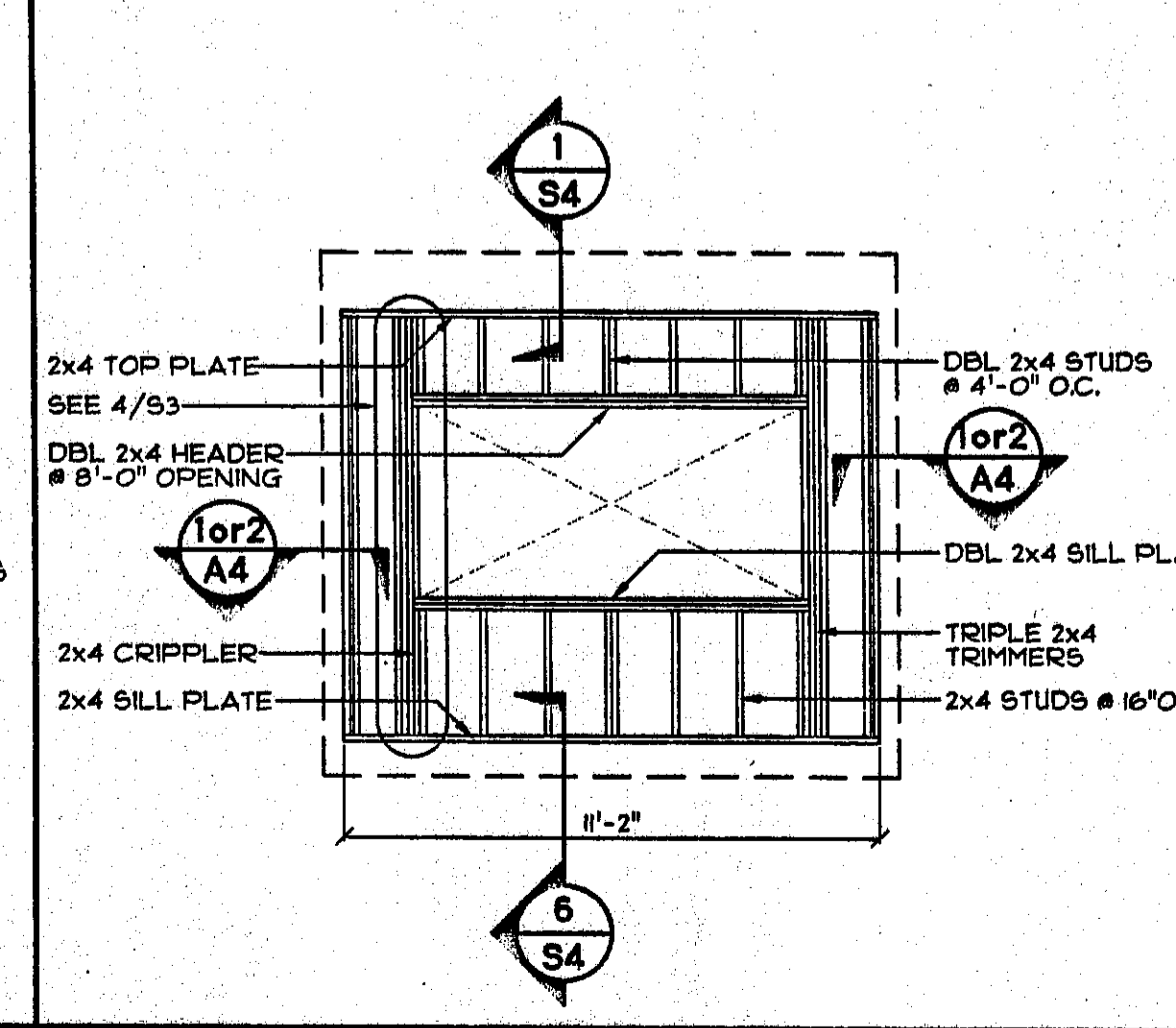
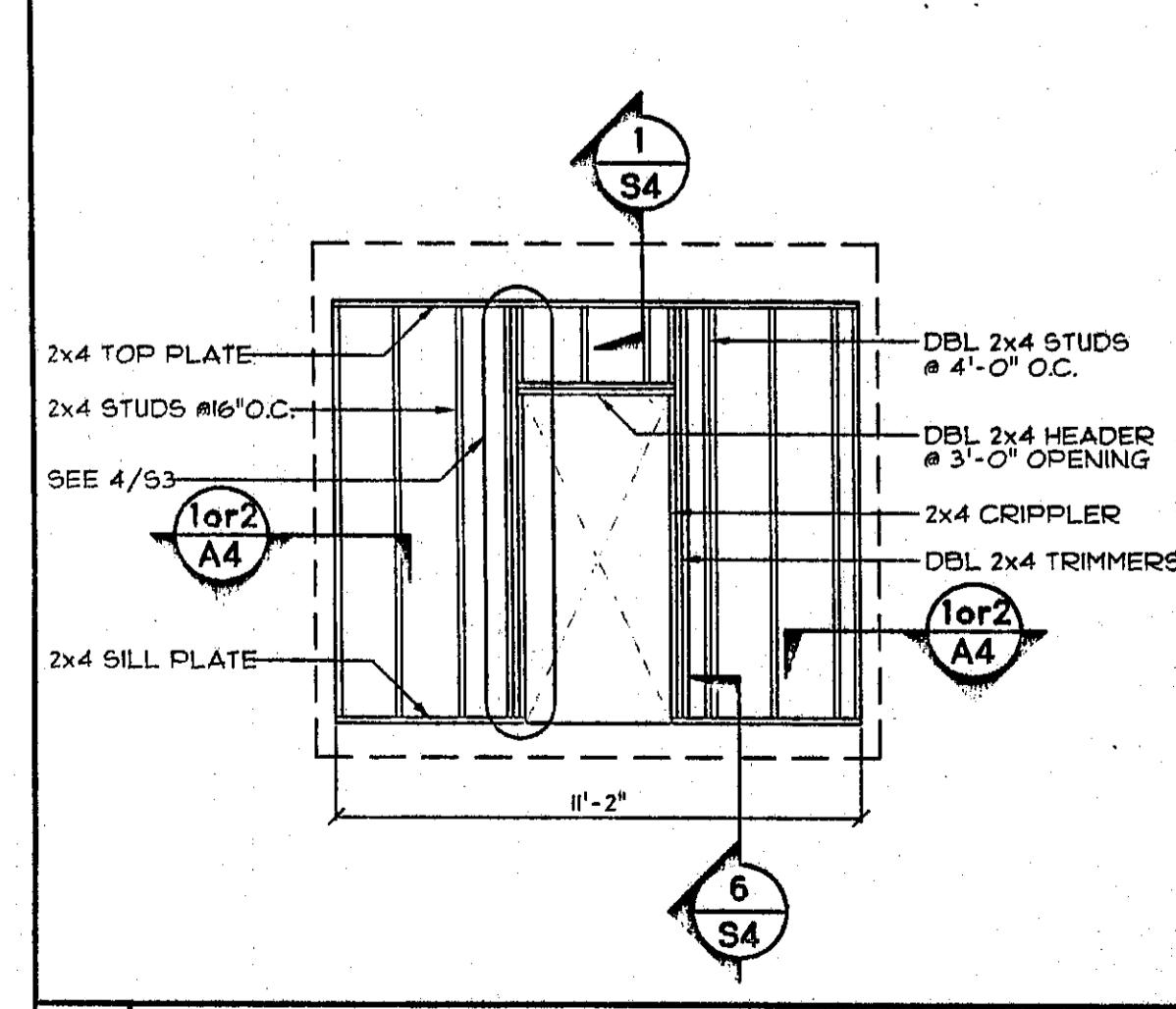


**3 WALL FRAMING ELEVATION @ 40'-0" SIDE**  
SCALE: 1/4" = 1'-0"

**4 NAILING DETAIL**  
SCALE: 1" = 1'-0"

**5 INTERIOR HYAC WALL FRAMING**  
SCALE: 1/4" = 1'-0"

**6 END FRAME ELEVATION**  
SCALE: 1/4" = 1'-0"



**7 DOOR WALL FRAMING**  
SCALE: 1/4" = 1'-0"

**8 WINDOW WALL FRAMING**  
SCALE: 1/4" = 1'-0"

**9 WALL FRAMING @ 12'-0" WALL**  
SCALE: 1/4" = 1'-0"

**10 HVAC WALL FRAMING - DUCTED**  
SCALE: 1/4" = 1'-0"

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT.  
02 105136  
AC: [Signature] SS: [Signature]  
DATE: 11/17/99

PC  
IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
02-101236  
AC: [Signature] SS: [Signature]  
DATE: 11/17/99

DESIGN CRITERIA

ROOF: DEAD LOAD - 8.0 PSF  
ROOF: LIVE LOAD - 20.0 PSF (SNOW)

FLOOR: DEAD LOAD - 8.0 PSF  
FLOOR: LIVE LOAD - 80.0 PSF  
(OPTIONAL) FLOOR: LIVE LOAD - 70.0 PSF  
(OPTIONAL) FLOOR: LIVE LOAD - 125.0 PSF

WALLS: DEAD LOAD - 8.0 PSF  
WIND: 80 MPH; EXPOSURE: C  
q<sub>s</sub> = 16.4 PSF; C<sub>e</sub> = 1.06; C<sub>d</sub> AS REQ.

SEISMIC: ZONE 4, R = 1.5, S<sub>v</sub> = 2.2, I<sub>m</sub> = 1.3, C<sub>s</sub> = 0.44, N<sub>e</sub> = 2.0, C<sub>v</sub> = 0.64

REVISION DATE: BY:

DATE:

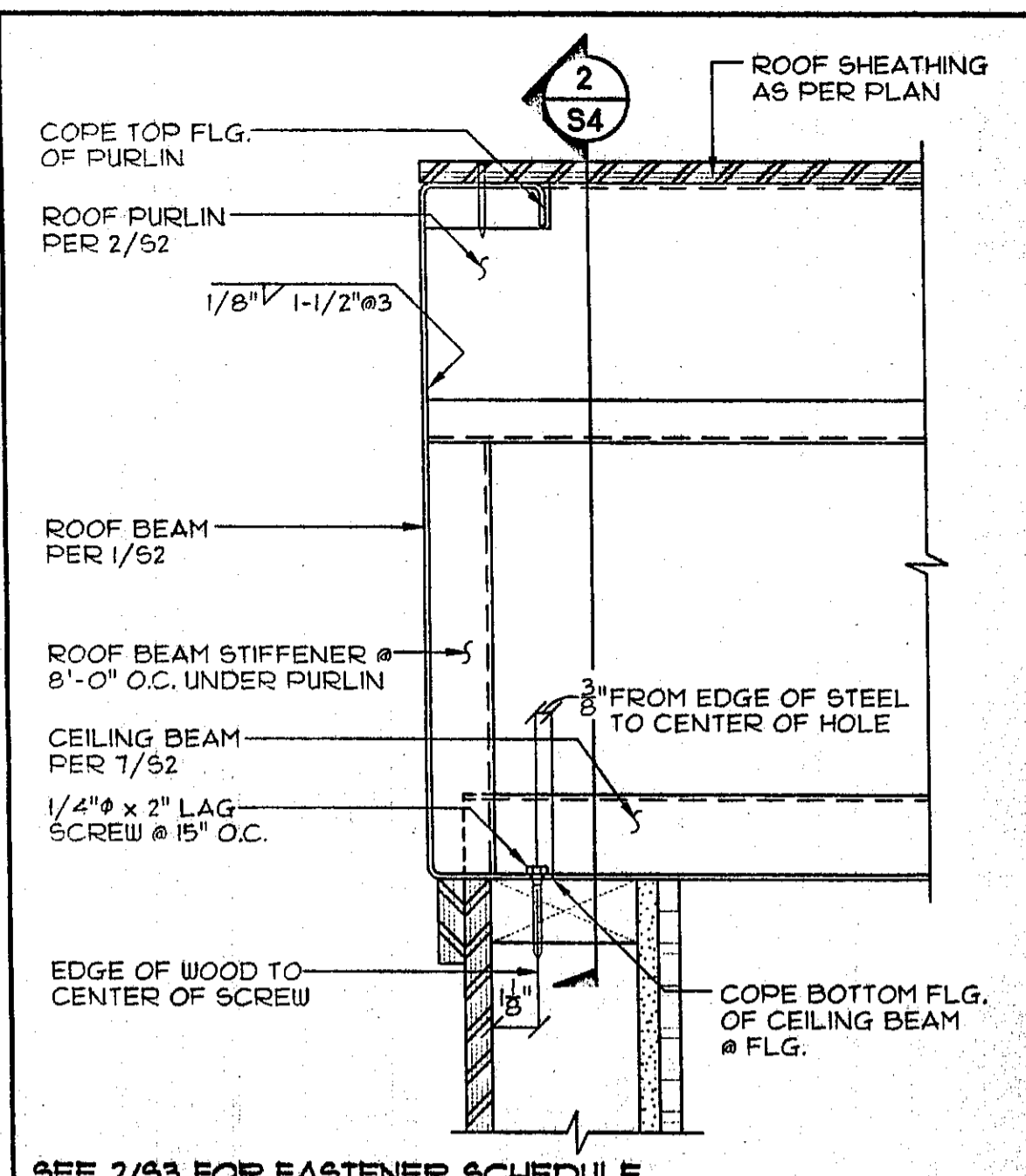
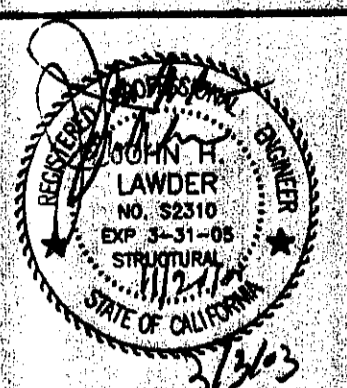
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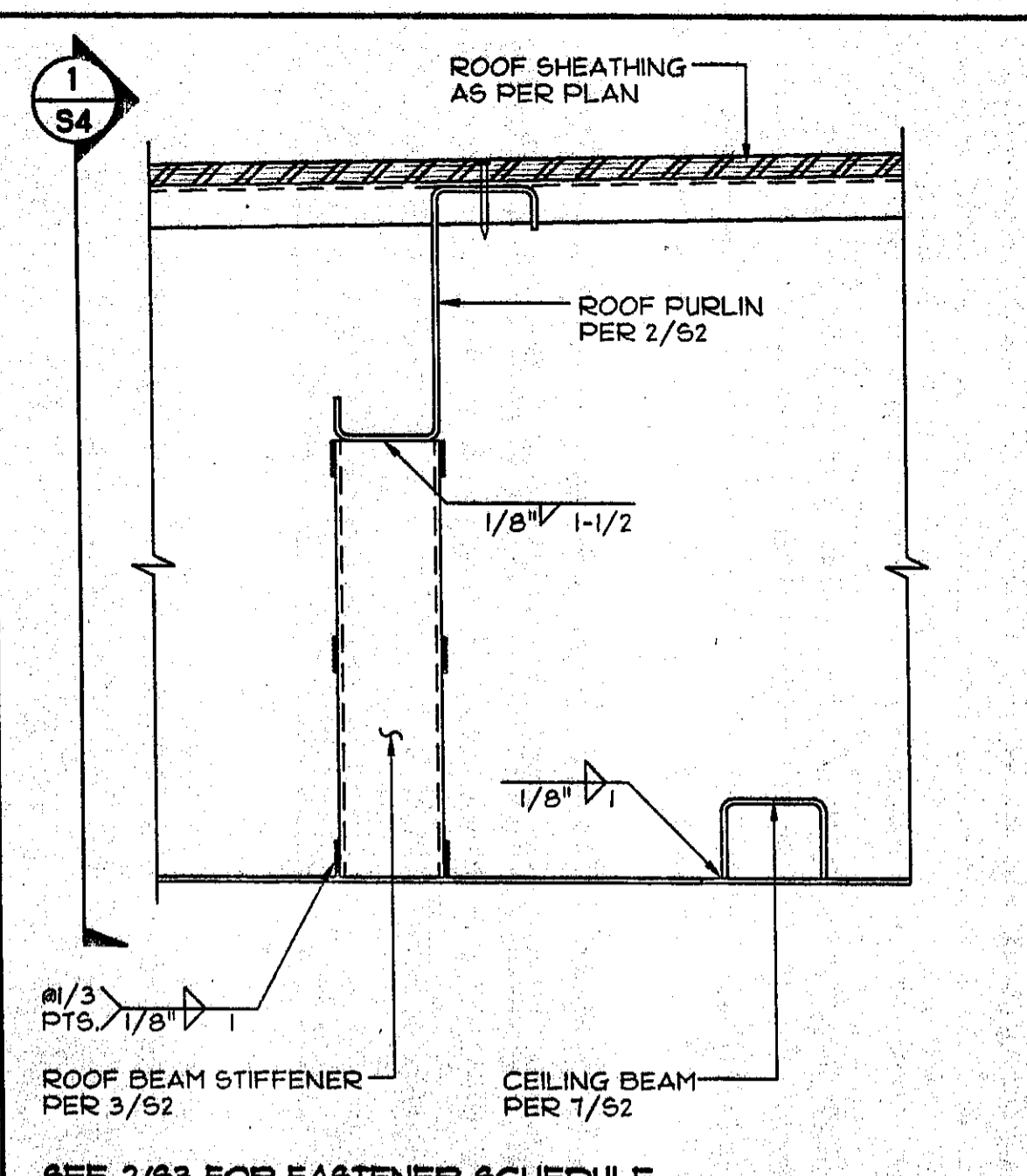
LONGITUDINAL BUILDING SECTION  
WALL FRAMING ELEVATIONS-END  
FRAME ELEVATION-NAIL SCHEDULE

**S3**

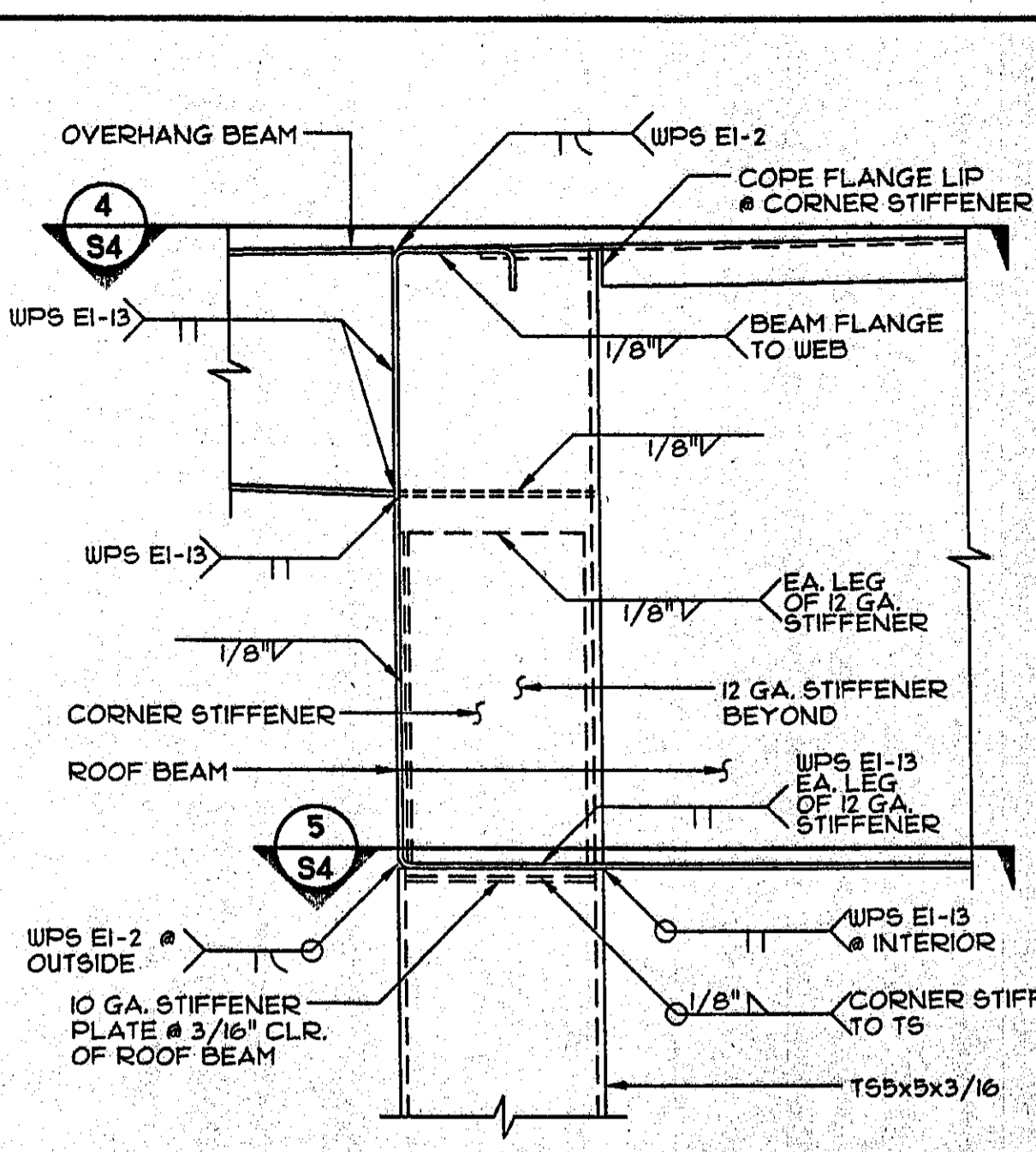




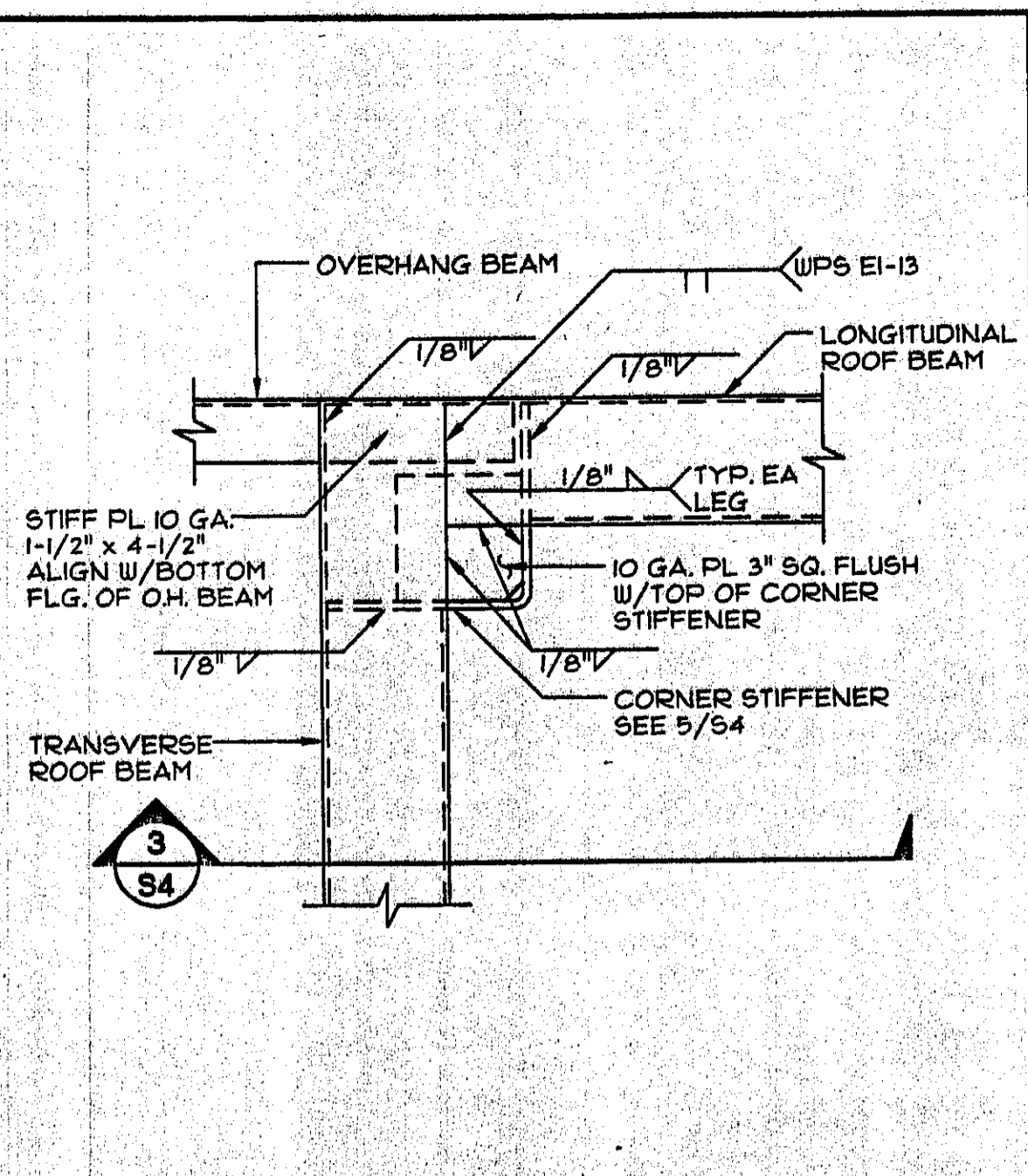
2 ROOF BEAM SECTION @ PURLIN  
SCALE: 3/4"=1'-0"



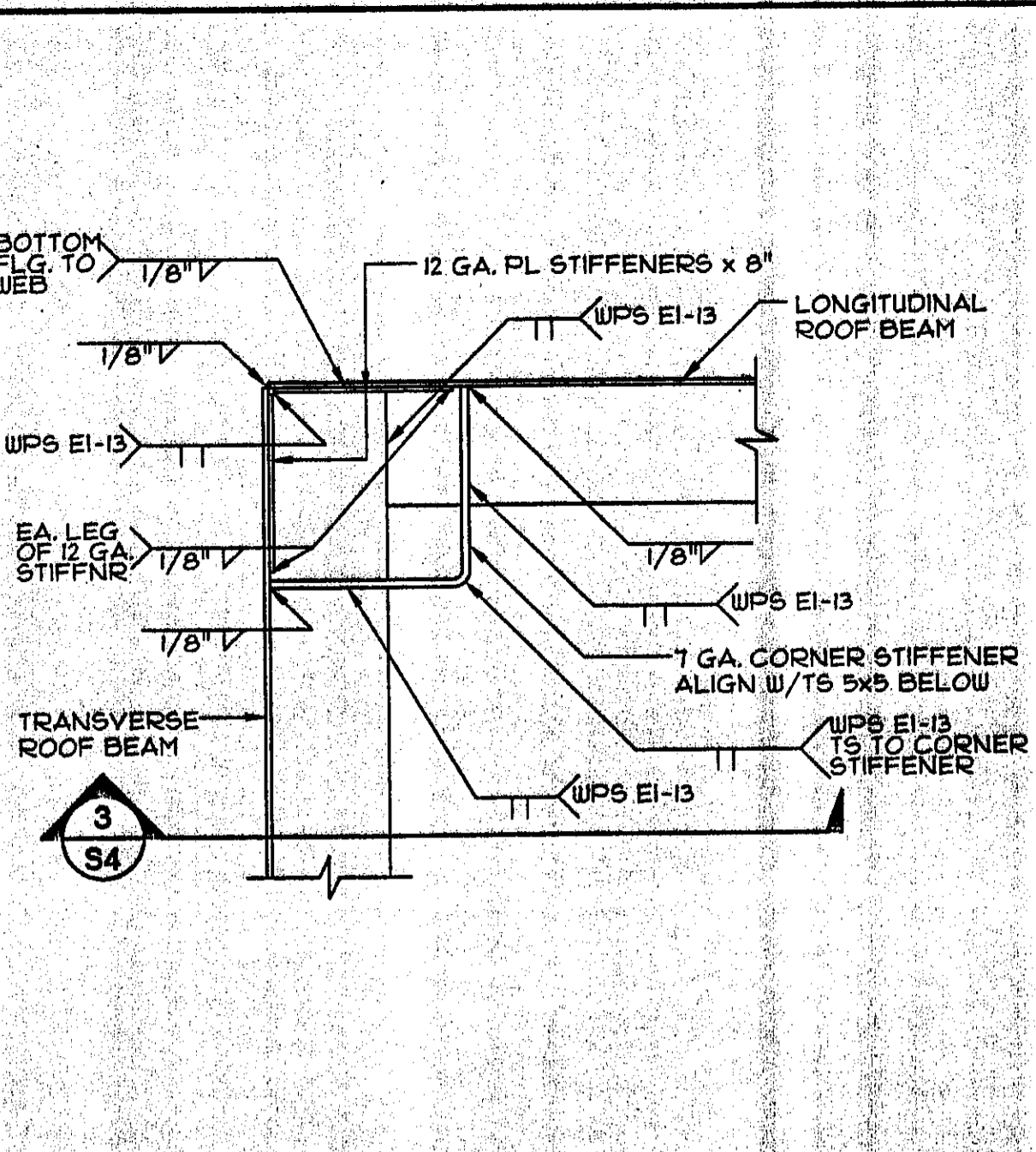
1 PURLIN TO STIFFENER AT BEAM  
SCALE: 3/4"=1'-0"



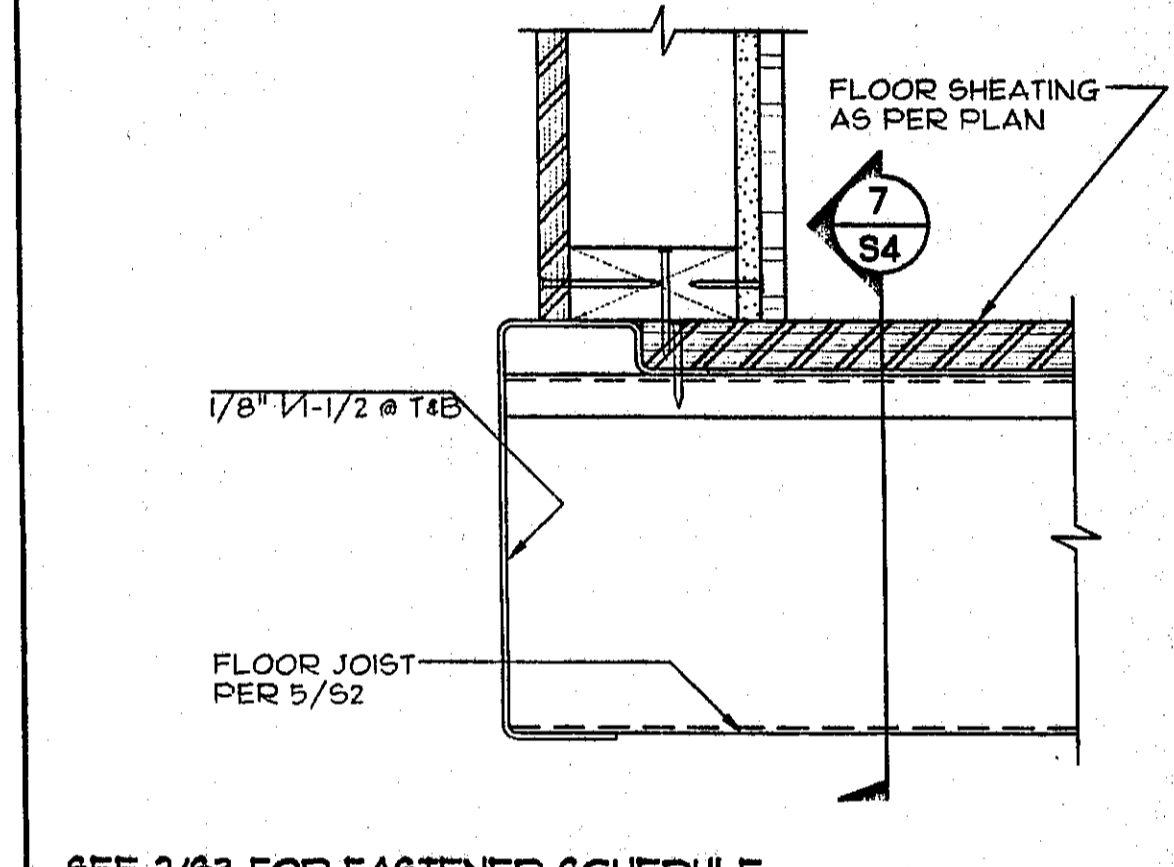
4 ROOF BEAM SECTION @ CORNER  
SCALE: 3/4"=1'-0"



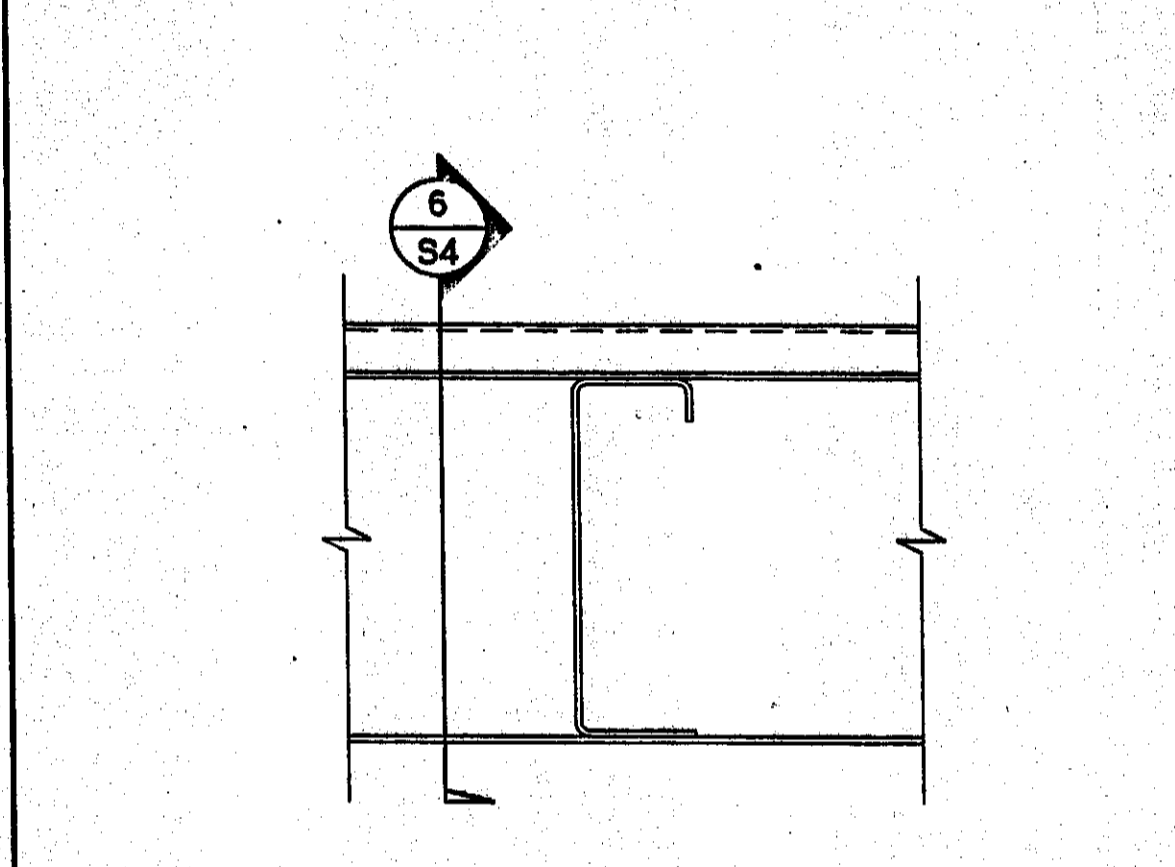
3 ROOF BEAM TOP FLANGE  
SCALE: 3/4"=1'-0"



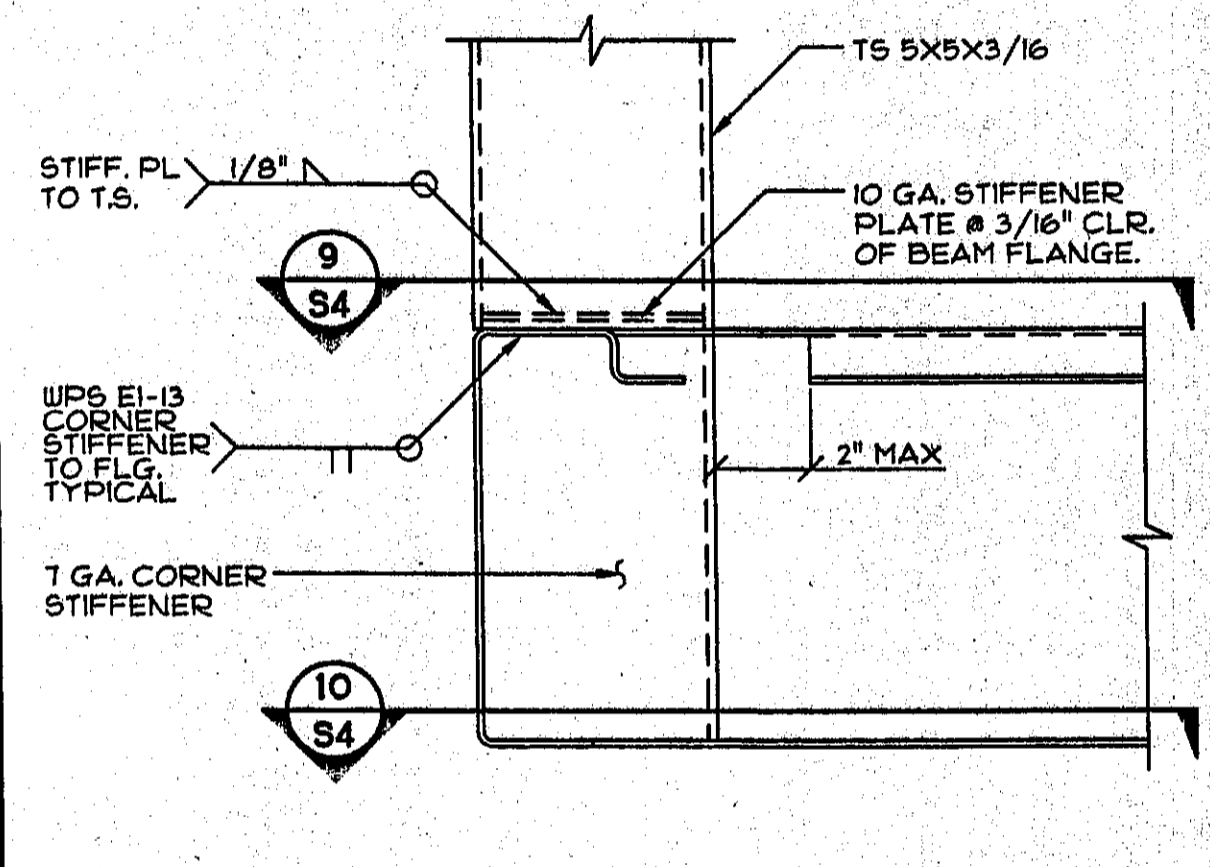
5 ROOF BEAM BOTTOM FLANGE  
SCALE: 3/4"=1'-0"



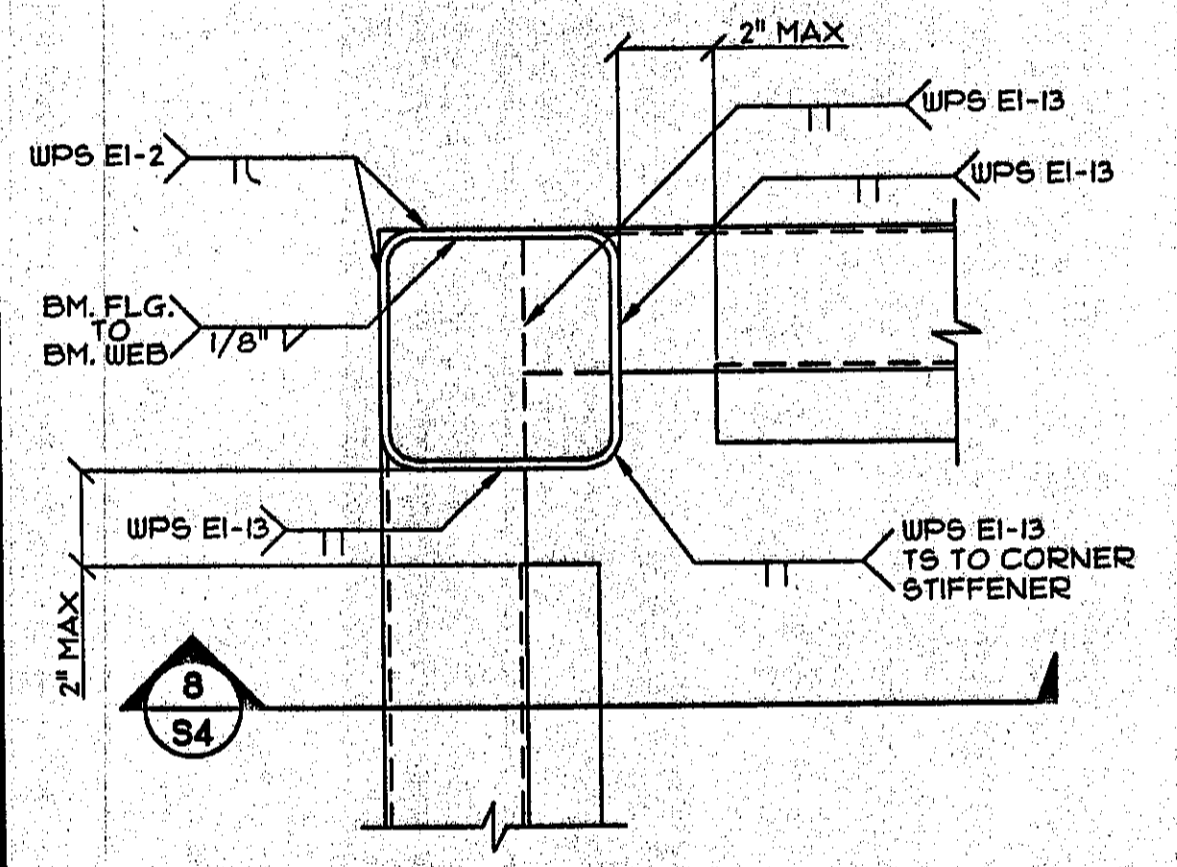
7 FLOOR BEAM @ JOIST CONNECTION  
SCALE: 3/4"=1'-0"



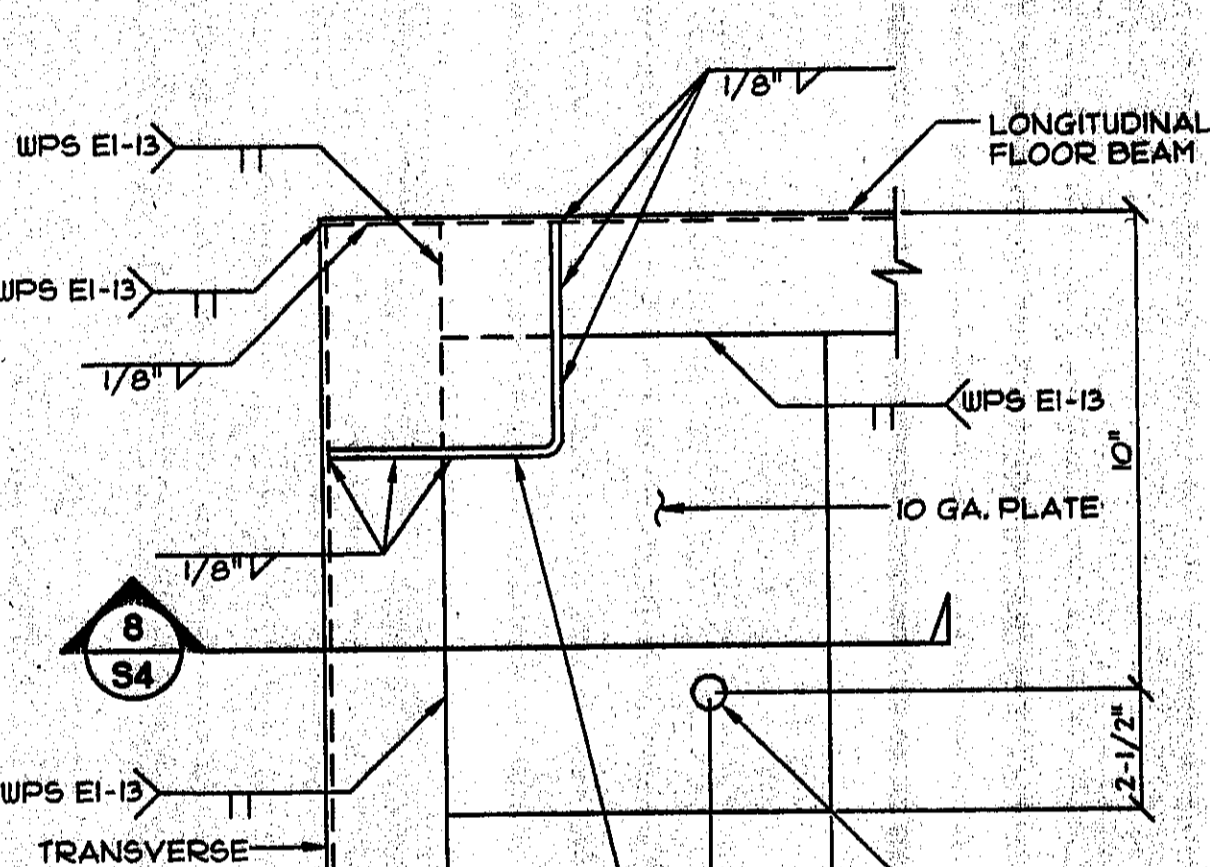
6 JOIST TO BEAM CONNECTION  
SCALE: 3/4"=1'-0"



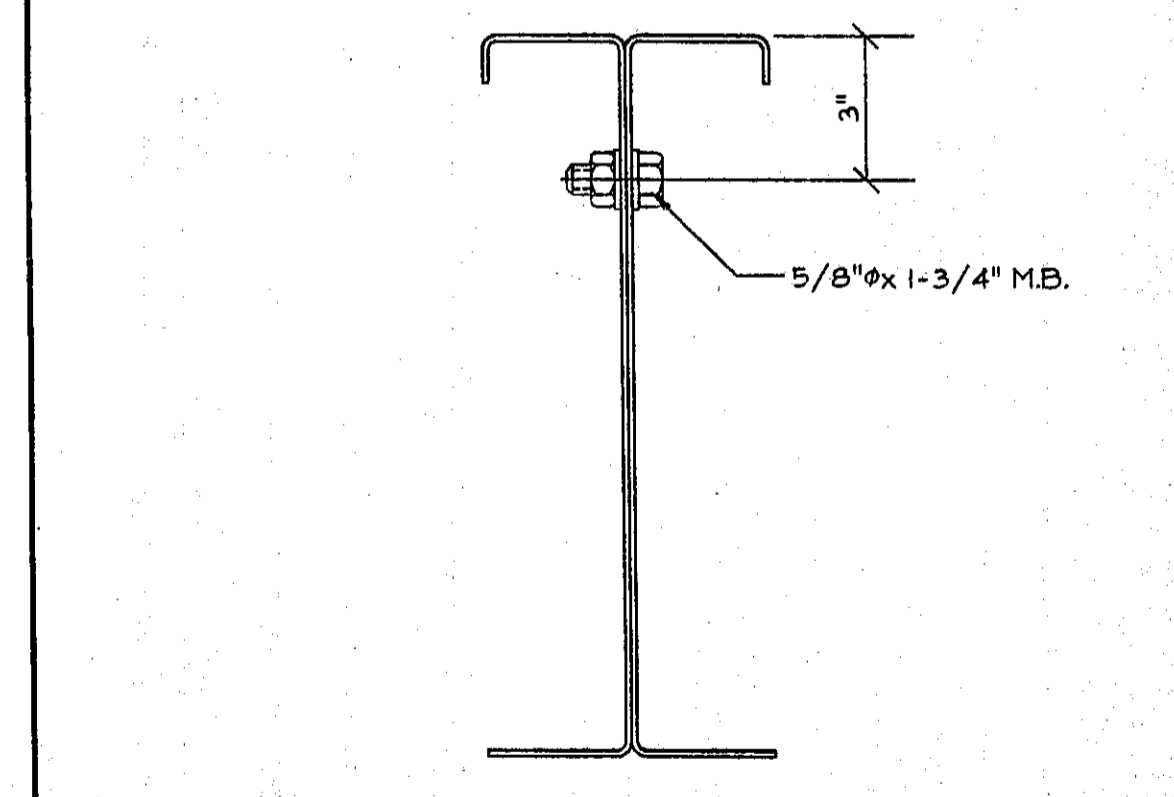
9 FLOOR BEAM SECTION @ CORNER  
SCALE: 3/4"=1'-0"



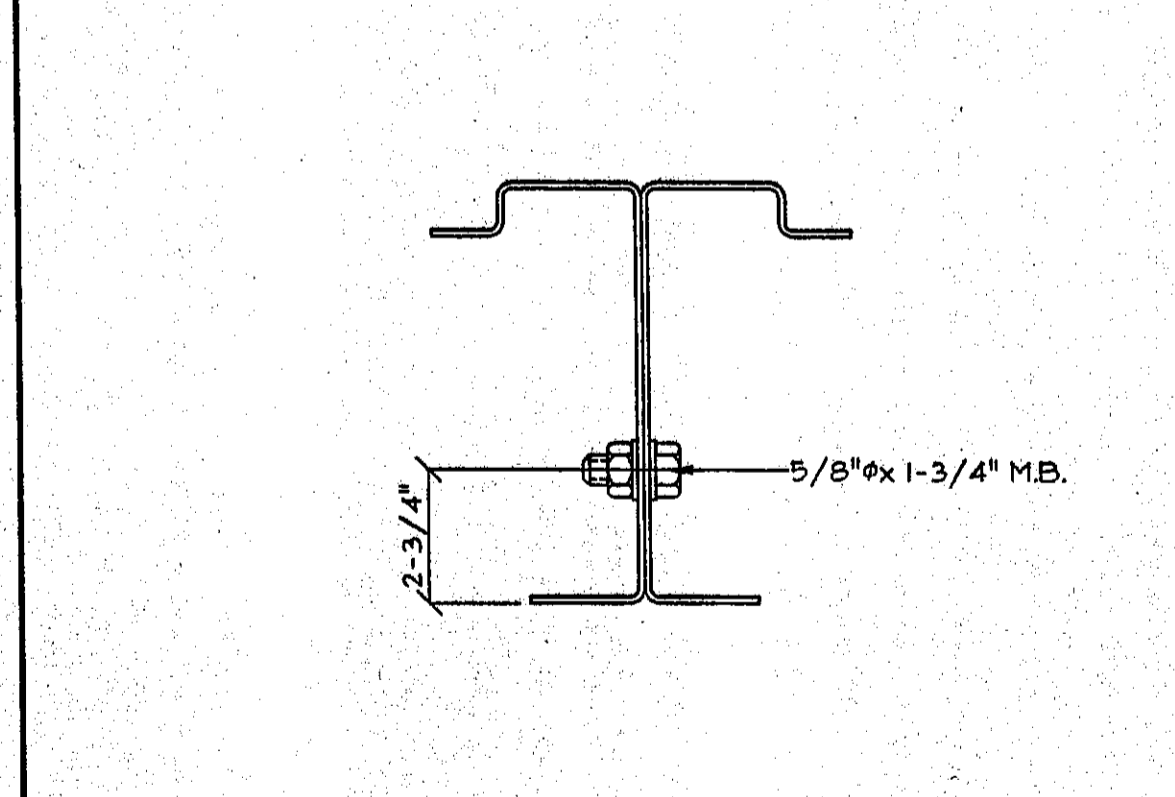
8 FLOOR BEAM TOP FLANGE  
SCALE: 3/4"=1'-0"



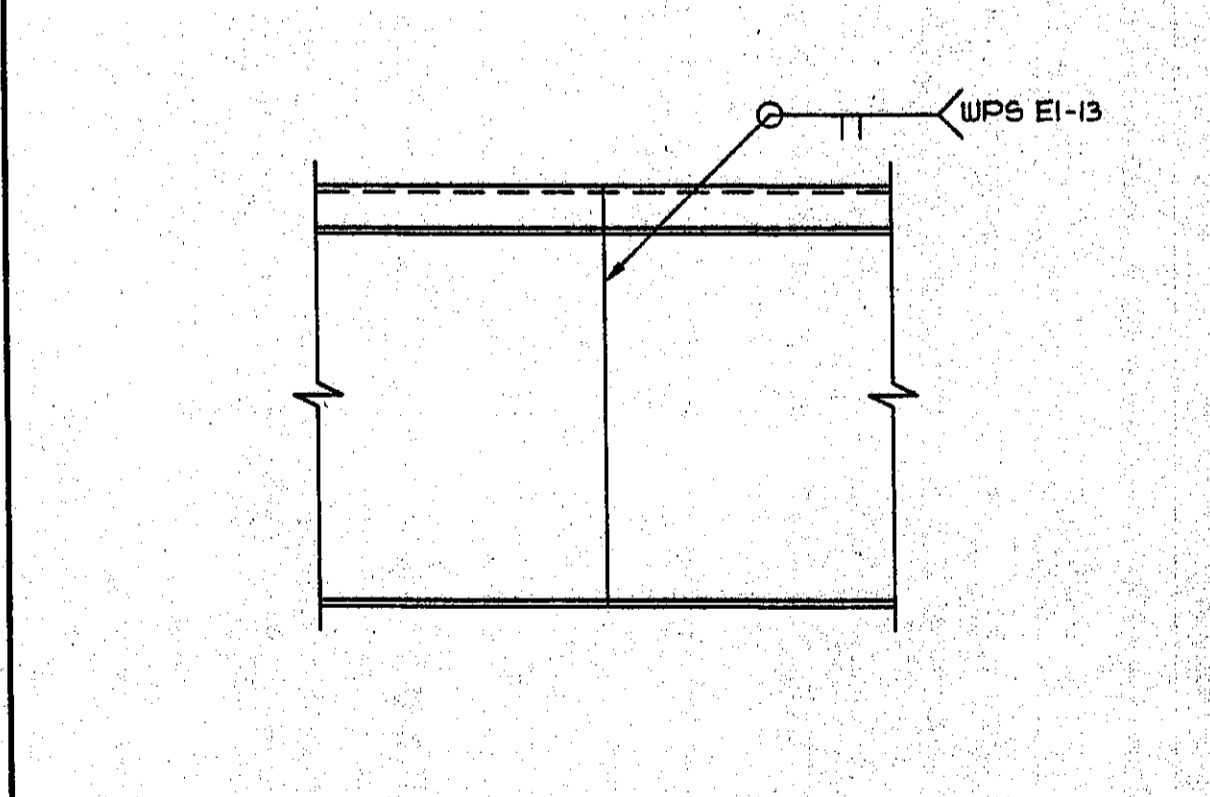
10 FLOOR BEAM BOTTOM FLANGE  
SCALE: 3/4"=1'-0"



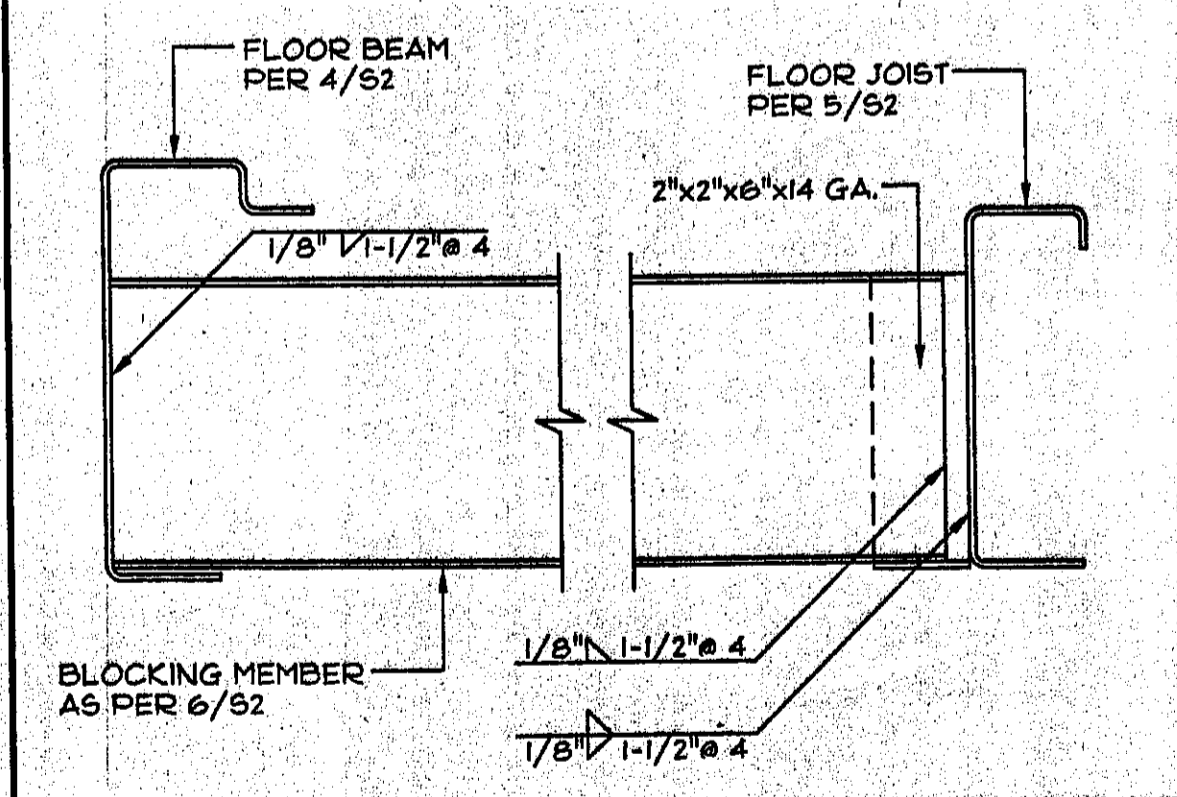
11 ROOF BEAM CONNECTION @ MOD LINE  
SCALE: 3/4"=1'-0"



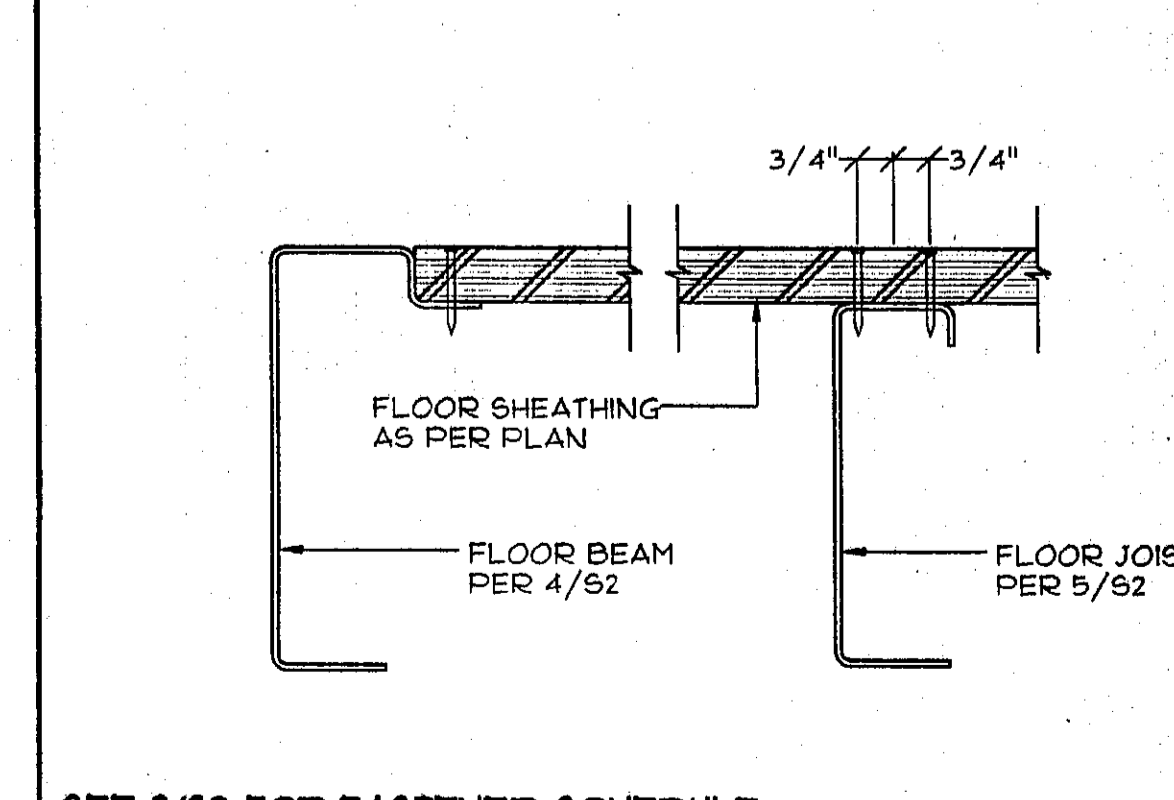
12 FLR BEAM CONNECTION @ MOD LINE  
SCALE: 3/4"=1'-0"



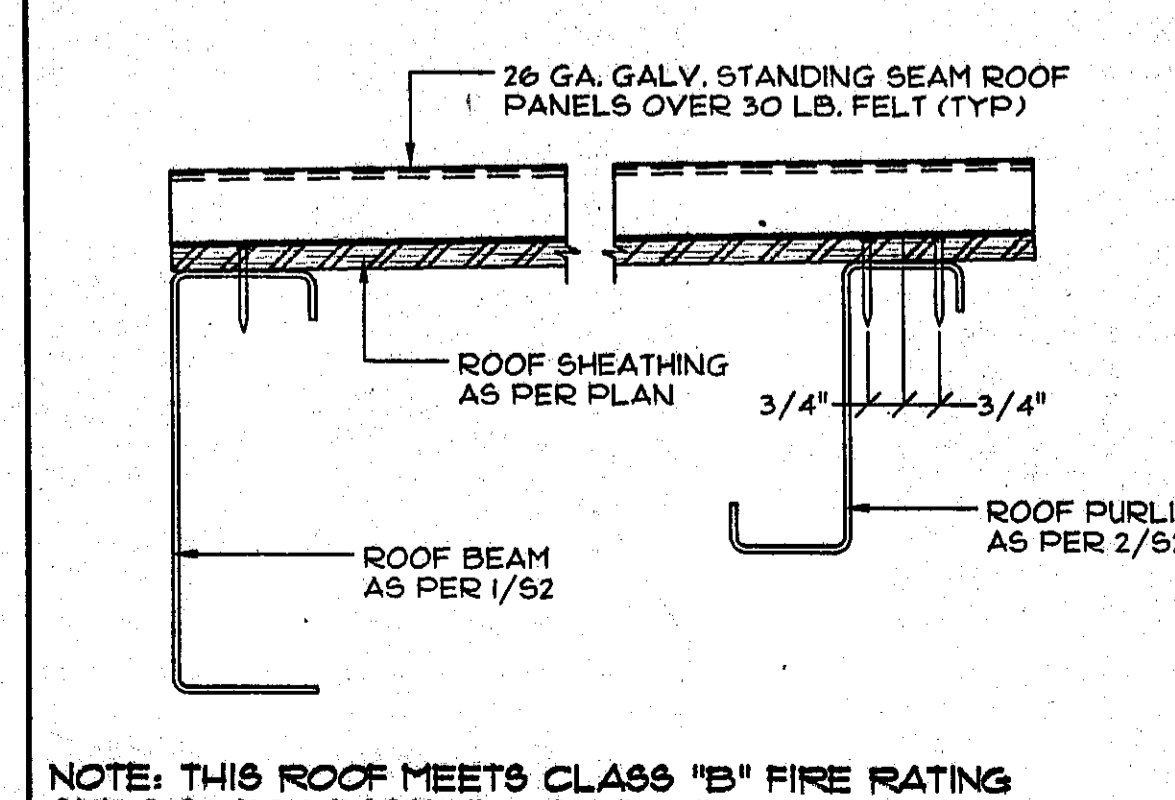
13 BEAM SPLICE DETAIL  
SCALE: 3/4"=1'-0"



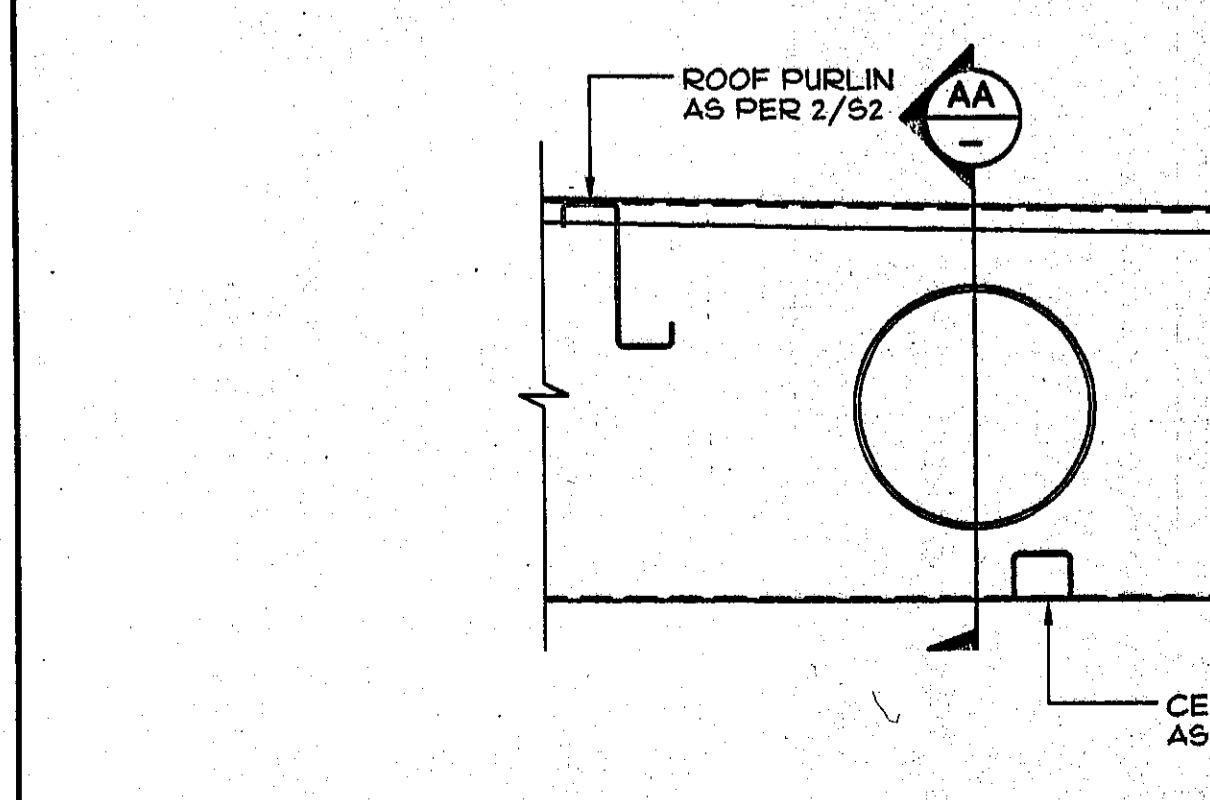
14 BLOCKING MEMBER CONNECTION  
SCALE: 3/4"=1'-0"



15 FLOOR SHEATHING ATTACHMENT  
SCALE: 3/4"=1'-0"



16 ROOF SHEATHING ATTACHMENT  
SCALE: 3/4"=1'-0"



17 10" ROOF BEAM PENETRATION @ MOD-LINE  
SCALE: 1-1/2"=1'-0"

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
02-105136  
AC - FLS - SS/HH  
DATE 11/29/01

DESIGN CRITERIA  
ROOF: DEAD LOAD - 8.0 PSF  
ROOF: LIVE LOAD - 20.0 PSF (SNOW)  
FLOOR: DEAD LOAD - 8.0 PSF  
FLOOR: LIVE LOAD - 50.0 PSF  
(OPTIONAL) FLOOR: LIVE LOAD - 70.0 PSF  
(OPTIONAL) FLOOR: LIVE LOAD - 125.0 PSF  
WALLS: DEAD LOAD - 8.0 PSF  
WIND: 80 MPH; EXPOSURE: C  
qs=15.4 PSF; Cp=1.05; Cq AS REQ.  
SEISMIC: ZONE 4, Ra=1.5, Rp=2.5, R=1.5, Ca=0.4, N=2.0, C=0.4, M=

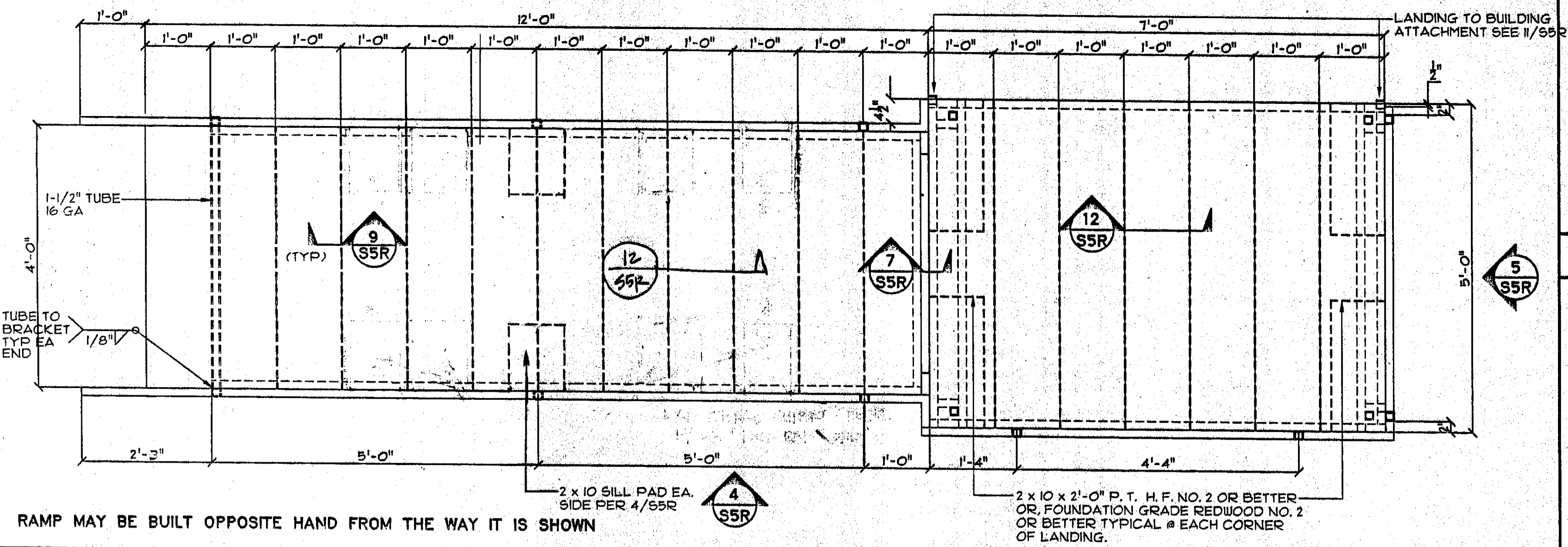
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18 APPROVALS  
SCALE: 3/4"=1'-0"

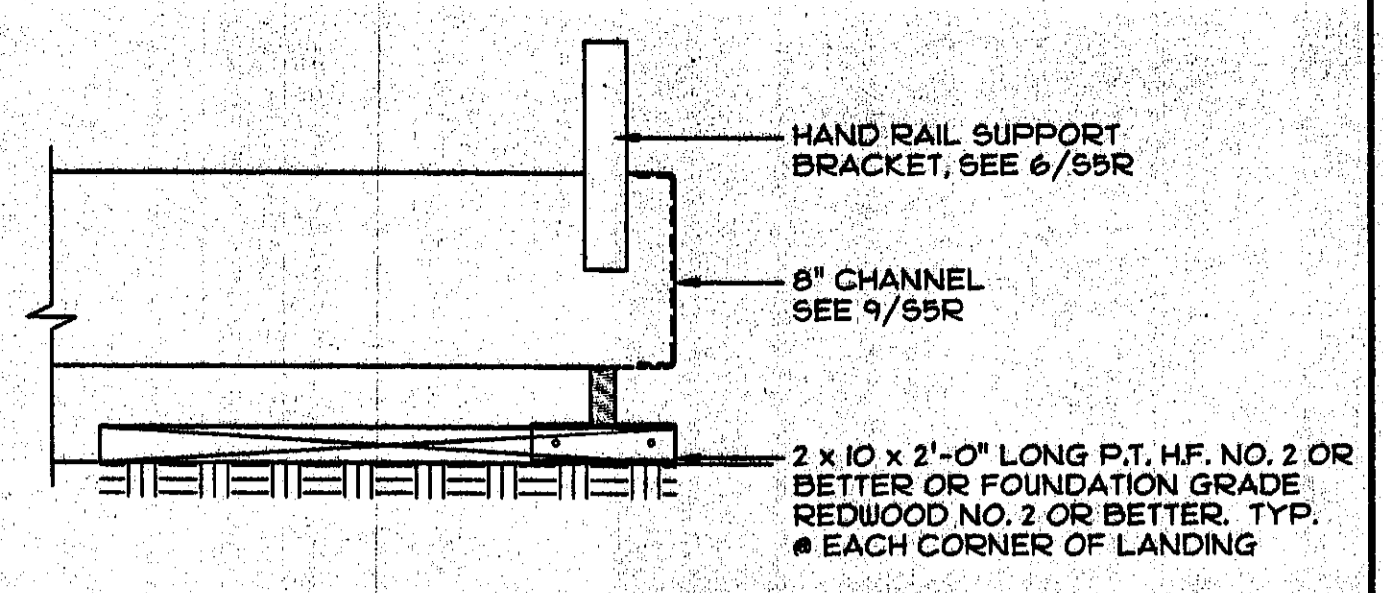
REVISION DATE:	BY:
11-18-01	WELD JOINTS PER WPS
	LE
DATE:	
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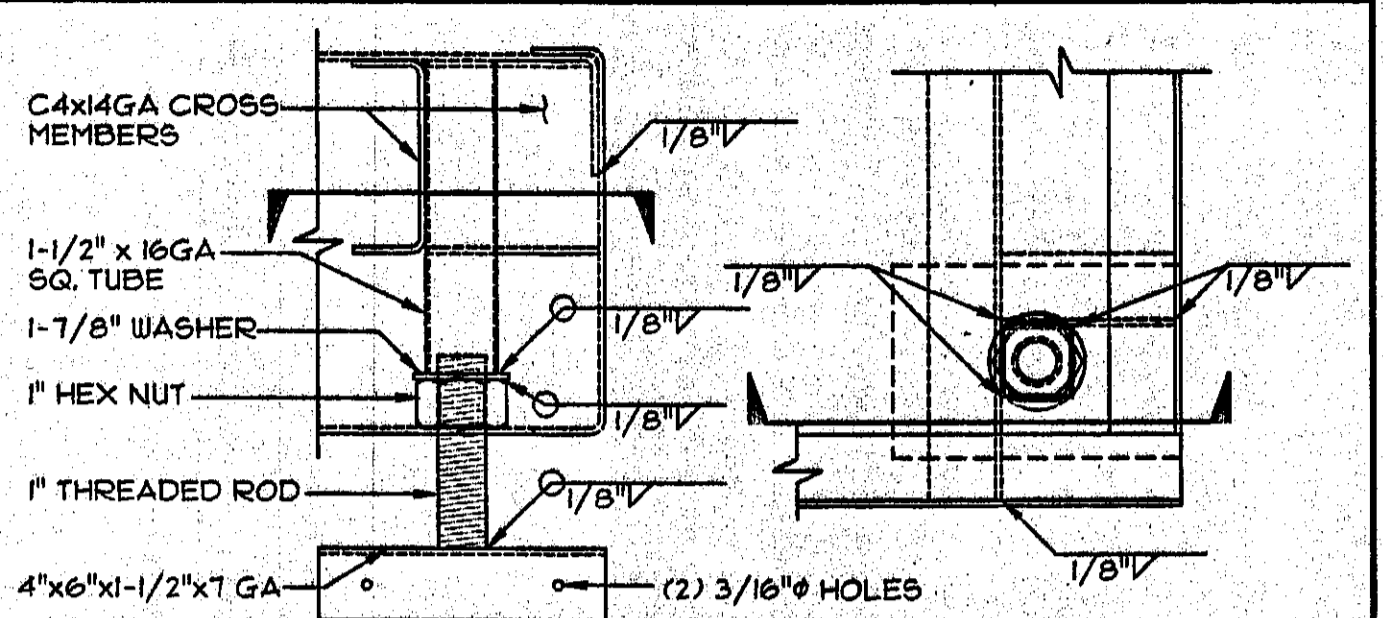
DSA ACCESS COMPLIANCE NOTE: FLOOR HEIGHT MAY VARY FROM 12" TO 18" DEPENDENT UPON FOUNDATION AND SITE CONDITIONS. OWNER SHALL PROVIDE ADDITIONAL RAMP LENGTHS TO MAINTAIN 1" IN 12" SLOPE.



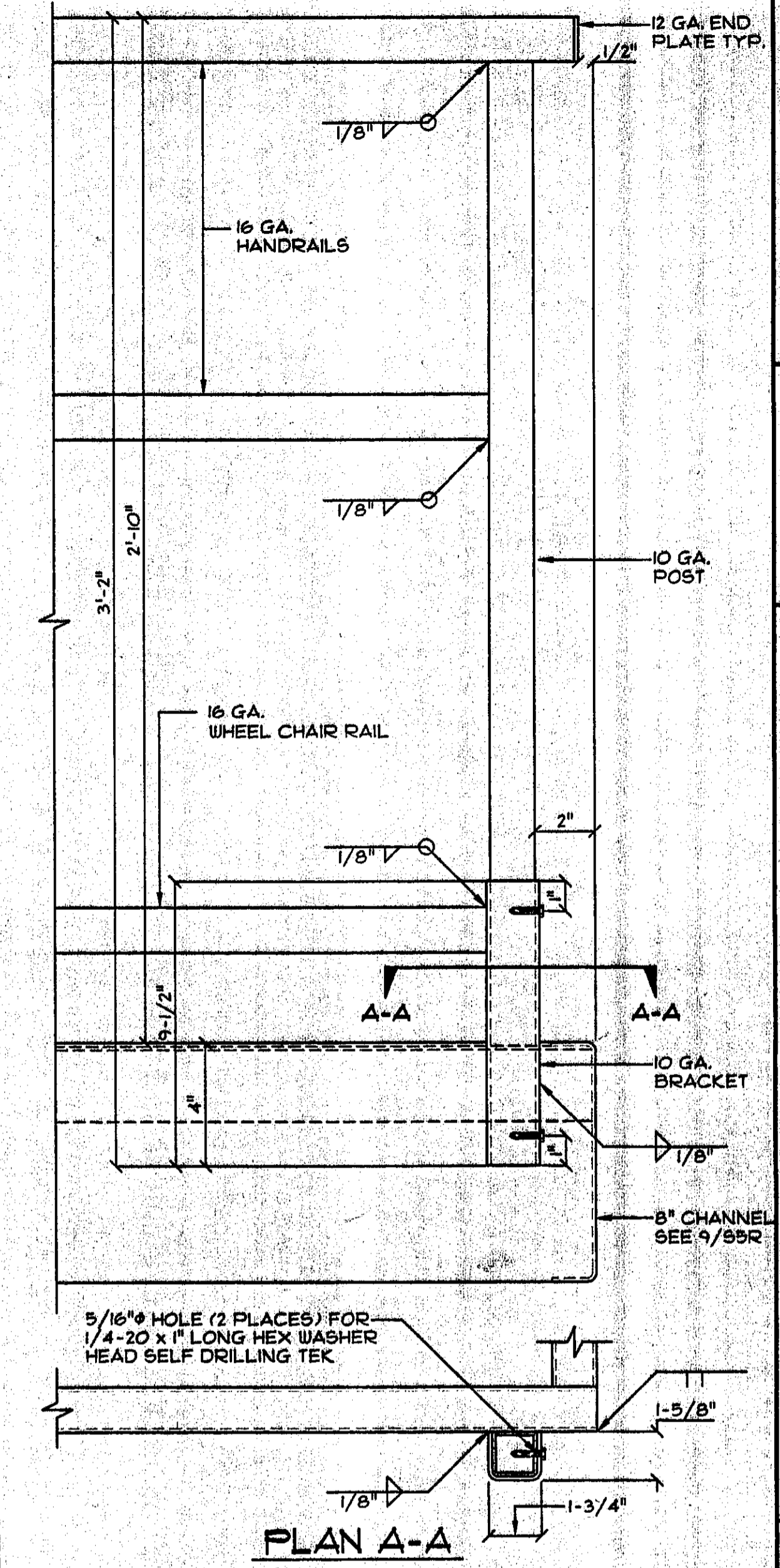
1 RAMP/LANDING FRAMING PLAN SCALE: 3/4"=1'-0"



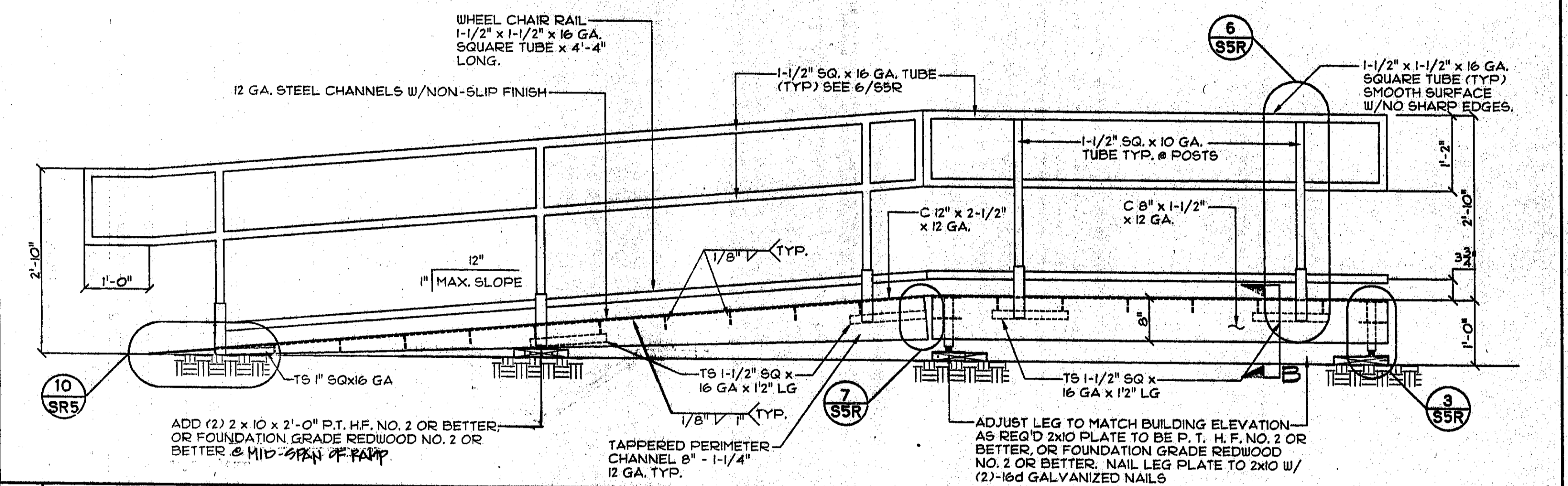
2 LANDING BASE SCALE: 1-1/2"=1'-0"



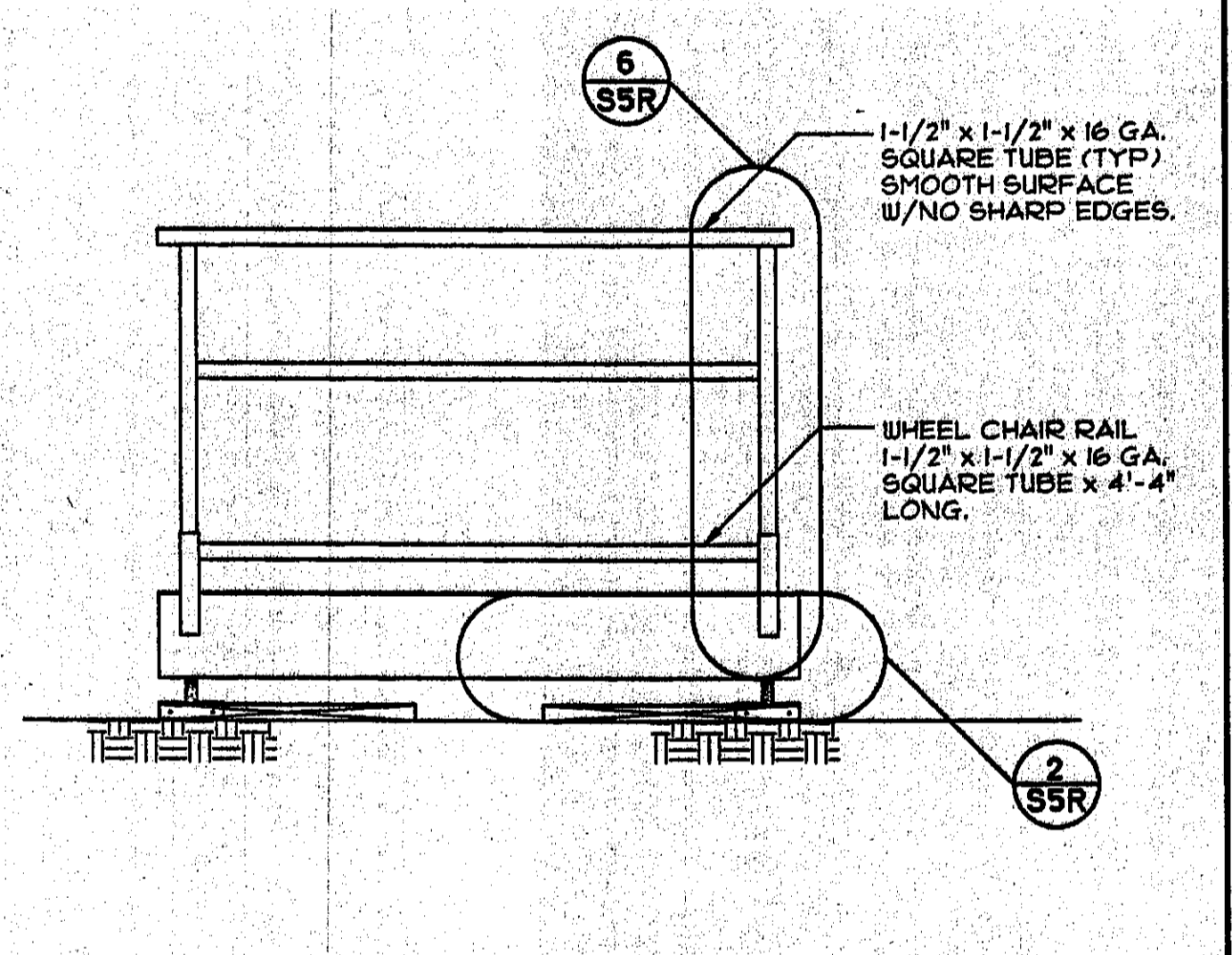
3 ADJUSTABLE LEG & BASE DETAIL SCALE: 3"=1'-0"



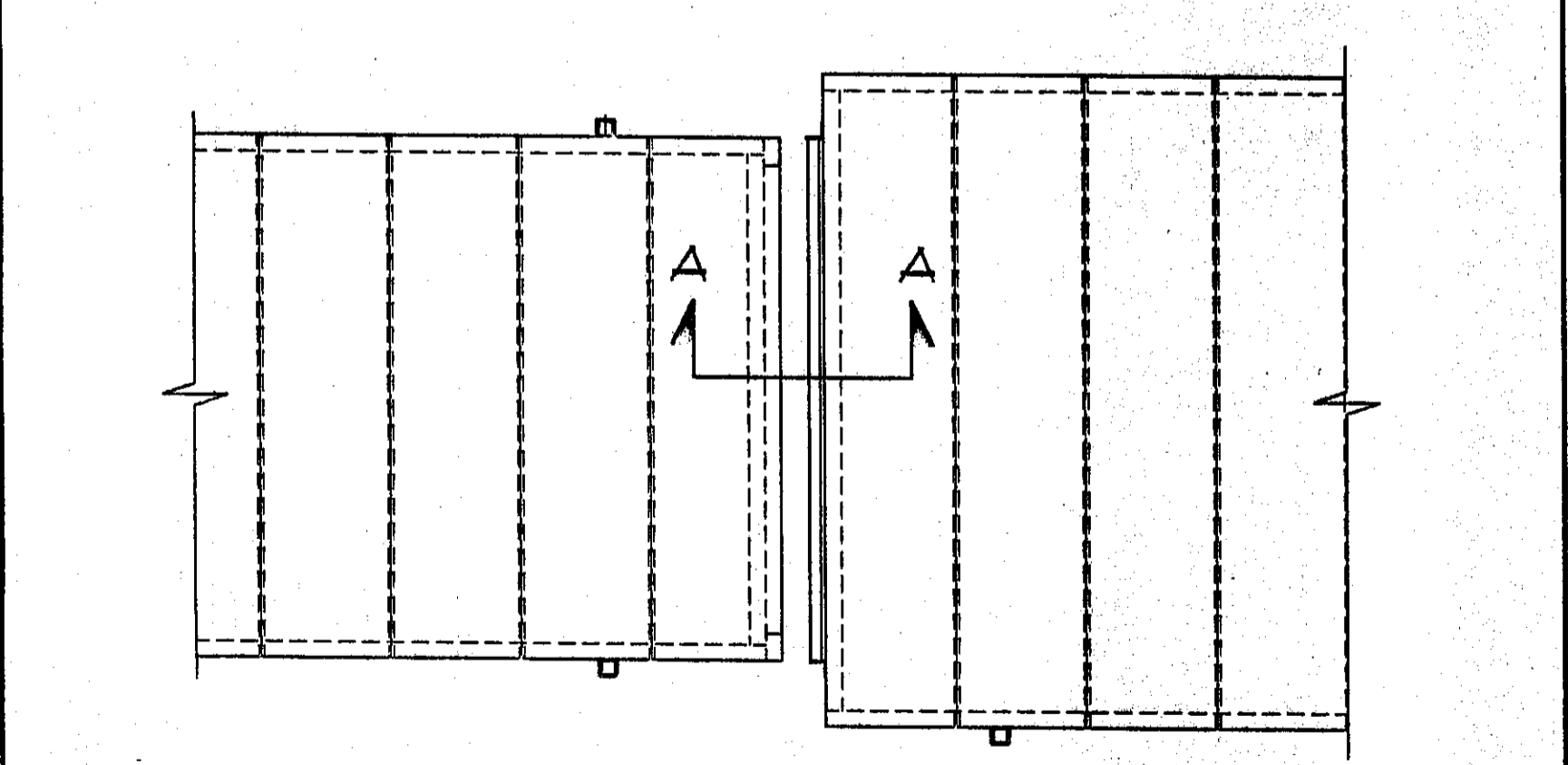
6 HANDRAIL SUPPORT BRACKET SCALE: 3"=1'-0"



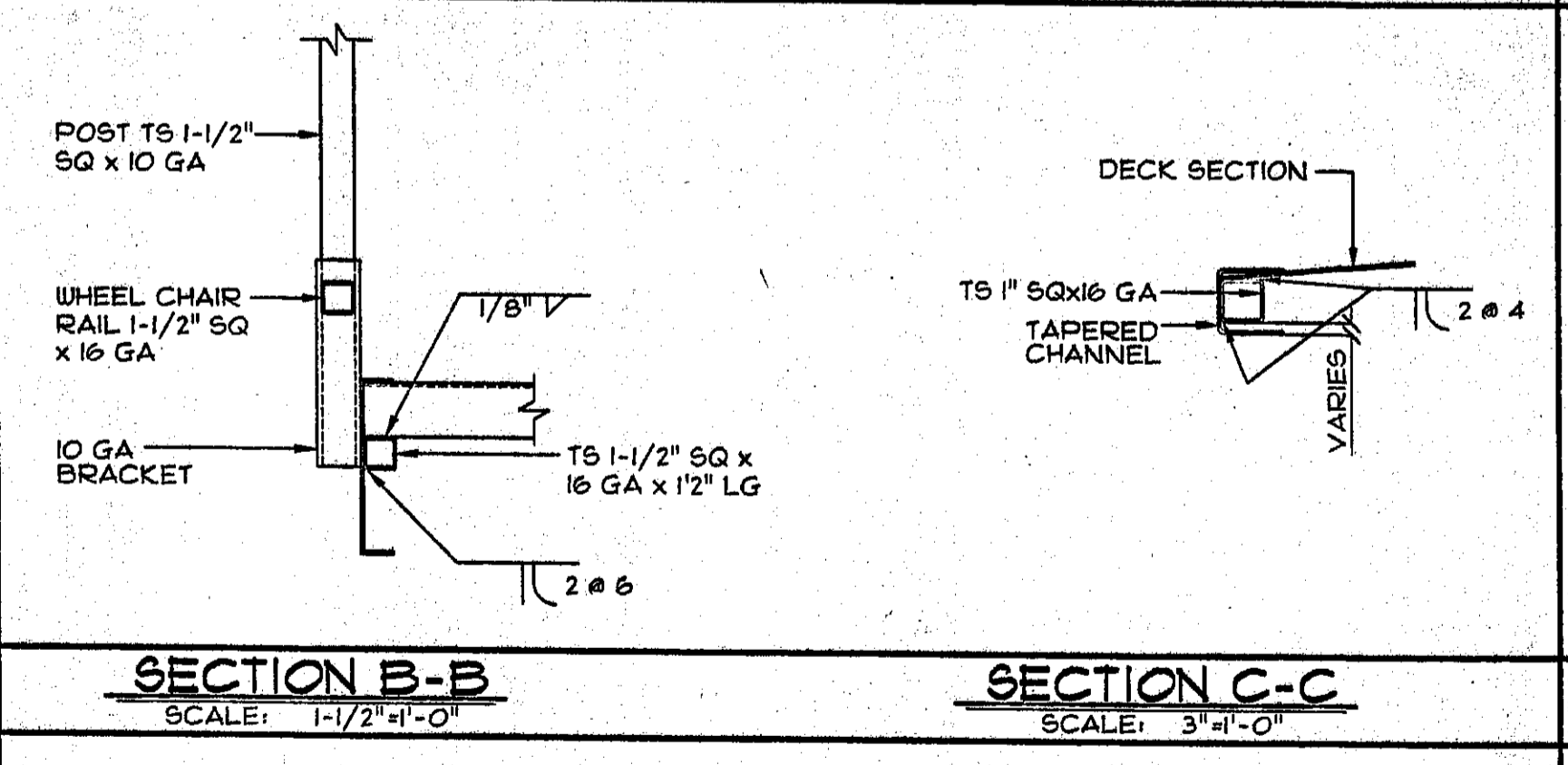
4 RAMP/LANDING SIDE ELEVATION SCALE: 3/4"=1'-0"



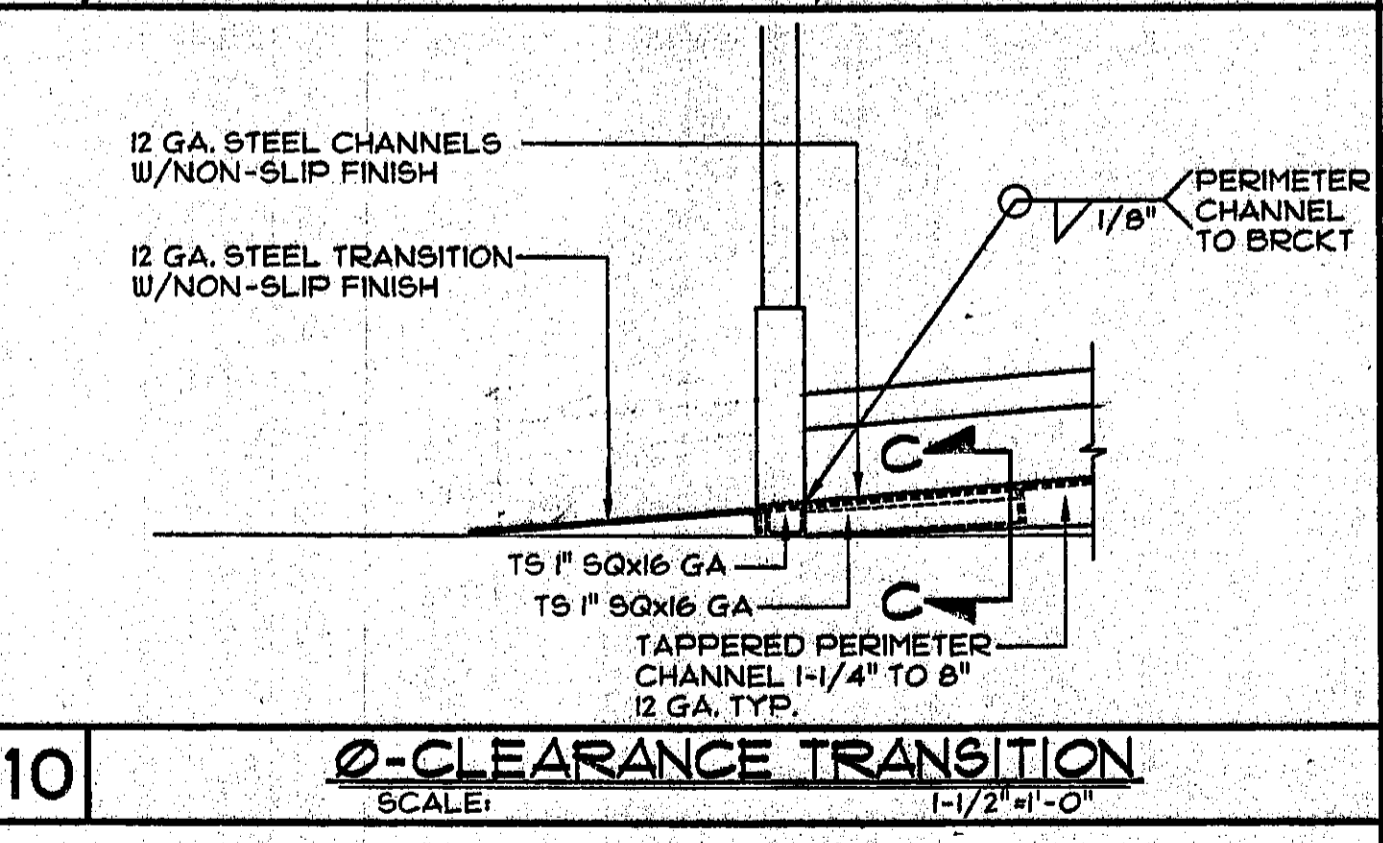
5 END ELEVATION SCALE: 3/4"=1'-0"



7 RAMP/LANDING ATTACHMENT BRACKETS SCALE: 3/4"=1'-0" OR AS NOTED

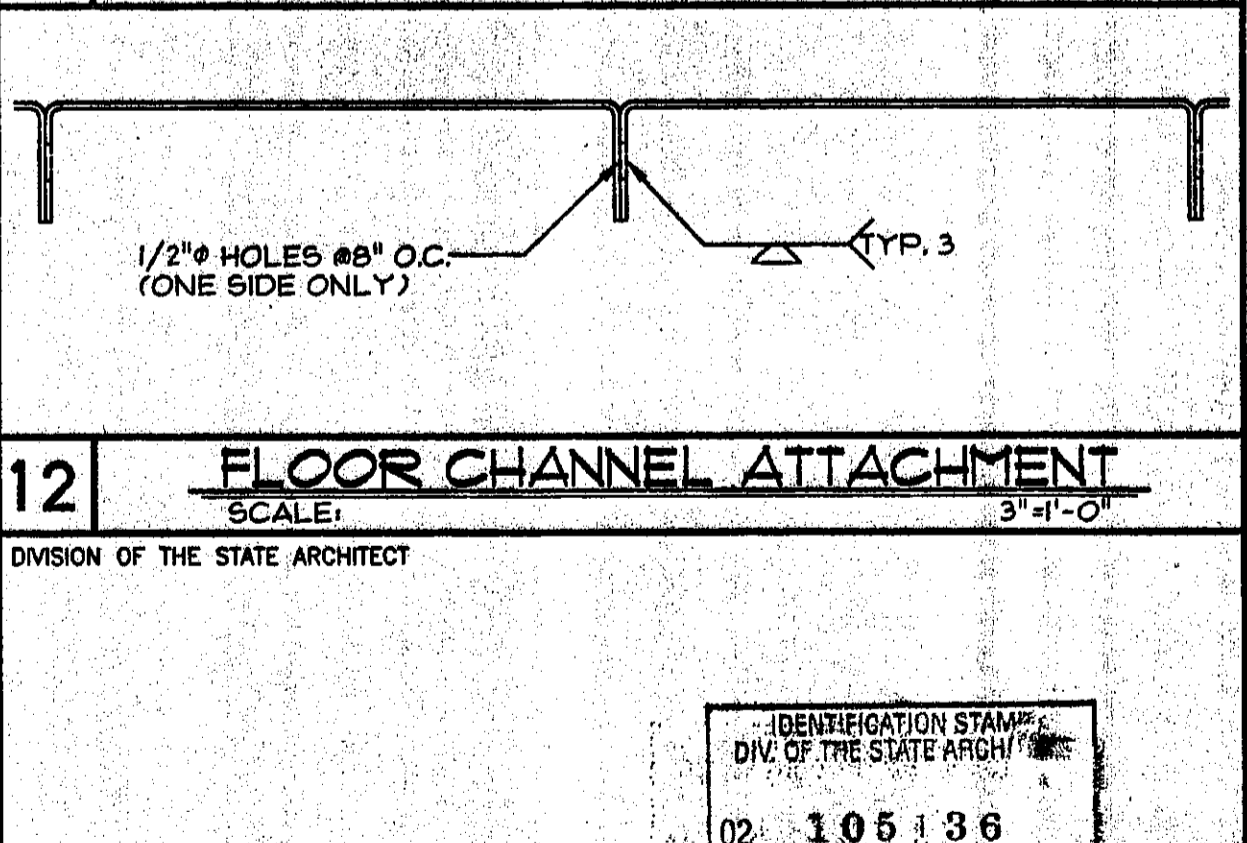


9 FLOOR CHANNEL AND PERIMETER BEAM SCALE: 3"=1'-0"

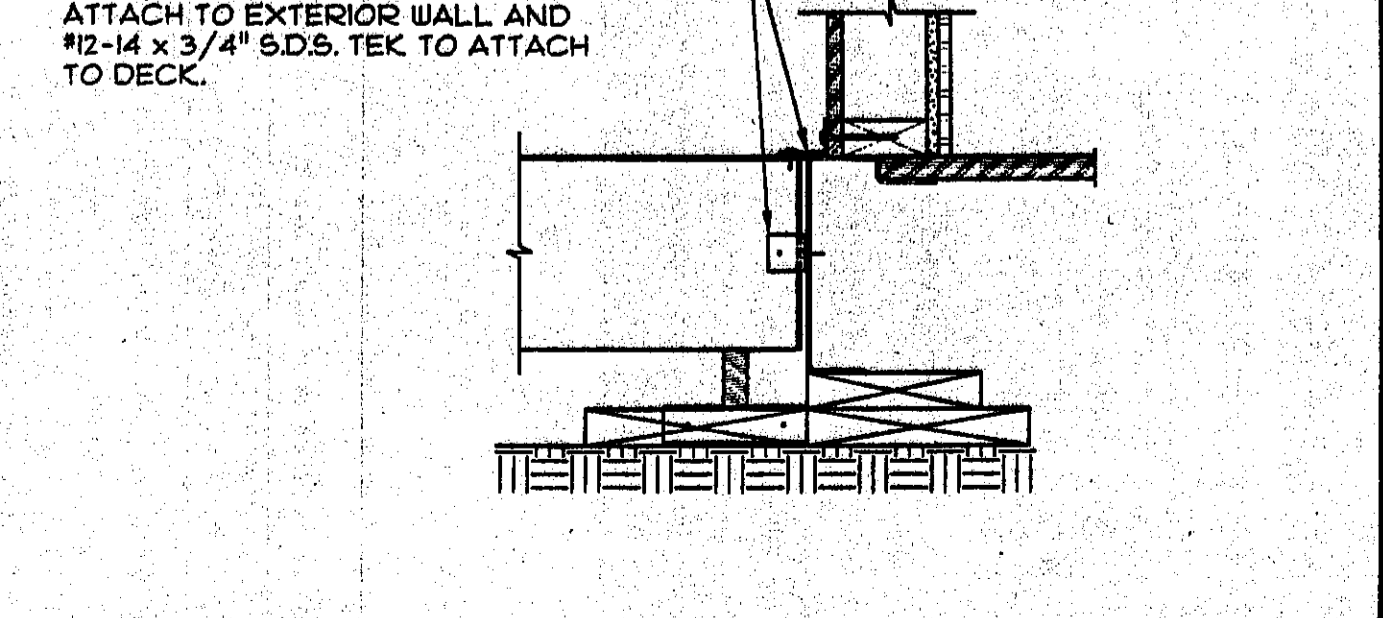


10 Ø-CLEARANCE TRANSITION SCALE: 1-1/2"=1'-0"

	EFFECTIVE SECTION PROPERTIES			
	FLOOR CHANNELS	FLOOR JOIST	PERIMETER BEAM	
A (IN <sup>2</sup> )	1.51	.51	1-1/4"	8"
I <sub>x</sub> MIN (IN <sup>4</sup> )	1.52	1.19	1.58	8.36
S <sub>x</sub> MIN (IN <sup>3</sup> )	.75	.59	.79	2.12
T (IN)	.105"(12 GA)	.075"(14 GA)	.105"(12 GA)	.105"(12 GA)



12 FLOOR CHANNEL ATTACHMENT SCALE: 3"=1'-0"



11 LANDING ATTACHMENT TO BUILDING SCALE: 1-1/2"=1'-0"

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
02 105136  
AC 7 FLS 11/19/99  
DATE: 11/19/99

DESIGN CRITERIA  
RAMP: DEAD LOAD - 5.0 PSF  
RAMP: LIVE LOAD - 100.0 PSF

PC  
IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
02-101236  
AC 7 FLS 11/19/99  
DATE: 11/19/99

13 APPROVALS

JH Lawder, Inc.  
Structural Engineers  
177 18th STREET  
WACHTON, CA 95252  
(408) 251-1166  
(408) 251-1166

ENVIROPLEX, INC.  
4777 E. CARPENTER ROAD STOCKTON, CA 95215

HANDICAP ACCESS RAMP

REVISION DATE: BY:

DATE:

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

55R



# mobile modular

11450 MISSION BLVD.  
MIRA LOMA, CA 91752

DSA FOUNDATION PLANS

FOR EXISTING STOCKPILE BUILDINGS

(BASED ON PC 04 - 119396)

WITH OPTIONAL  $S_s = 2.183$  AND  $S_s = 3.08$

NOTE: SEE SHEET F-1 FOR FOUNDATION PC ONLY LIMITATIONS

**TITLE 24 CODES:**

- 2019 California Administrative Code (CAC)..... (Part 1, Title 24, CCR)
- 2019 California Building Code (CBC), Volumes 1 and 2 ..... (Part 2, Title 24, CCR)
- (2018 International Building Code with 2019 California amendments)
- 2019 California Electrical Code ..... (Part 3, Title 24, CCR)
- (2017 National Electrical Code with 2019 California amendments)
- 2019 California Mechanical Code (CMC)..... (Part 4, Title 24, CCR)
- (2018 Uniform Mechanical Code with 2019 California amendments)
- 2019 California Plumbing Code (CPC) ..... (Part 5, Title 24, CCR)
- (2018 Uniform Plumbing Code with 2019 California amendments)
- 2019 California Energy Code ..... (Part 6, Title 24, CCR)
- 2019 California Fire Code (CFC) ..... (Part 9, Title 24, CCR)
- (2018 International Fire Code with 2019 California Amendments)
- 2019 California Green Building Standards Code.....(Part 11, Title 24, CCR)
- 2019 California Referenced Standards Code.....(Part 12, Title 24, CCR)

**REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:**

- 2019 CBC, Chapter 35
- 2019 CFC, Chapter 80

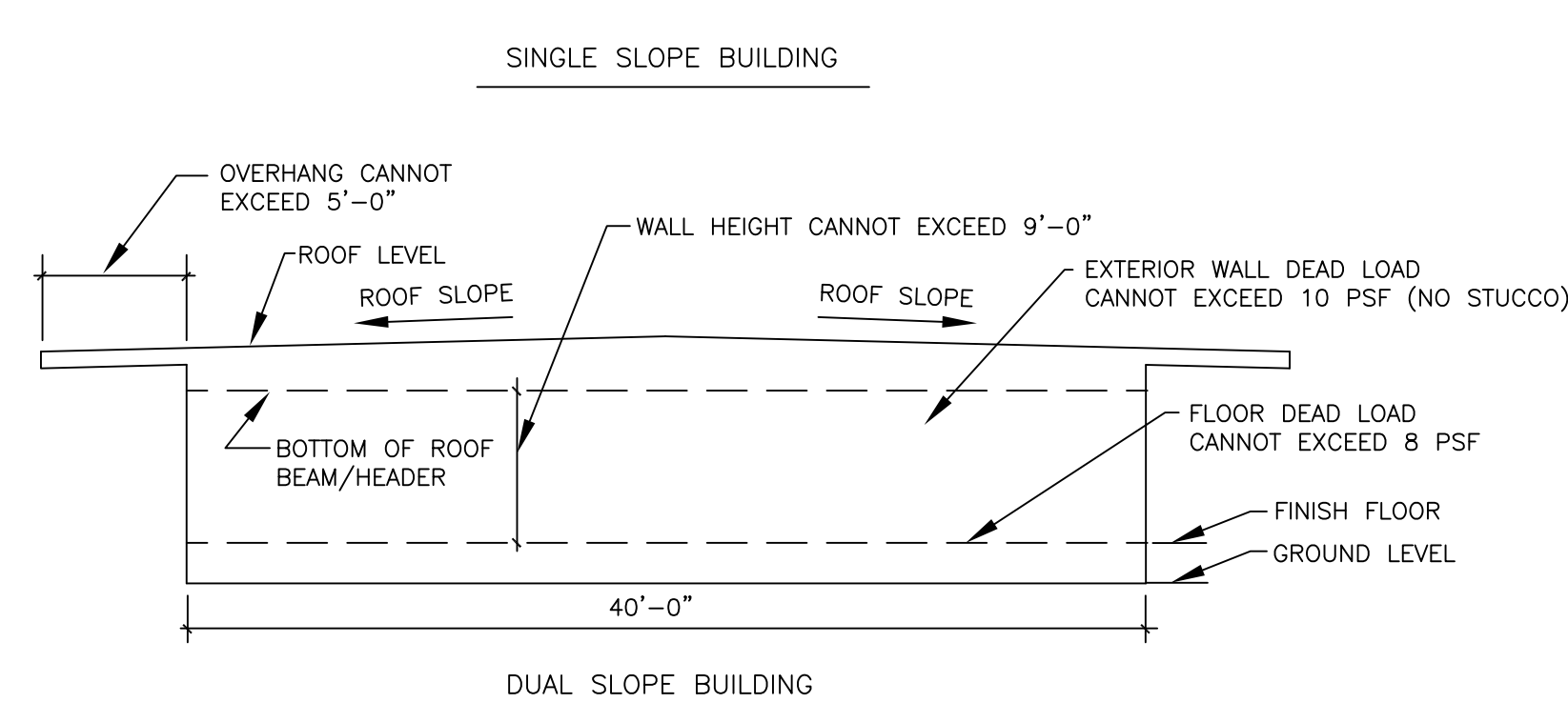
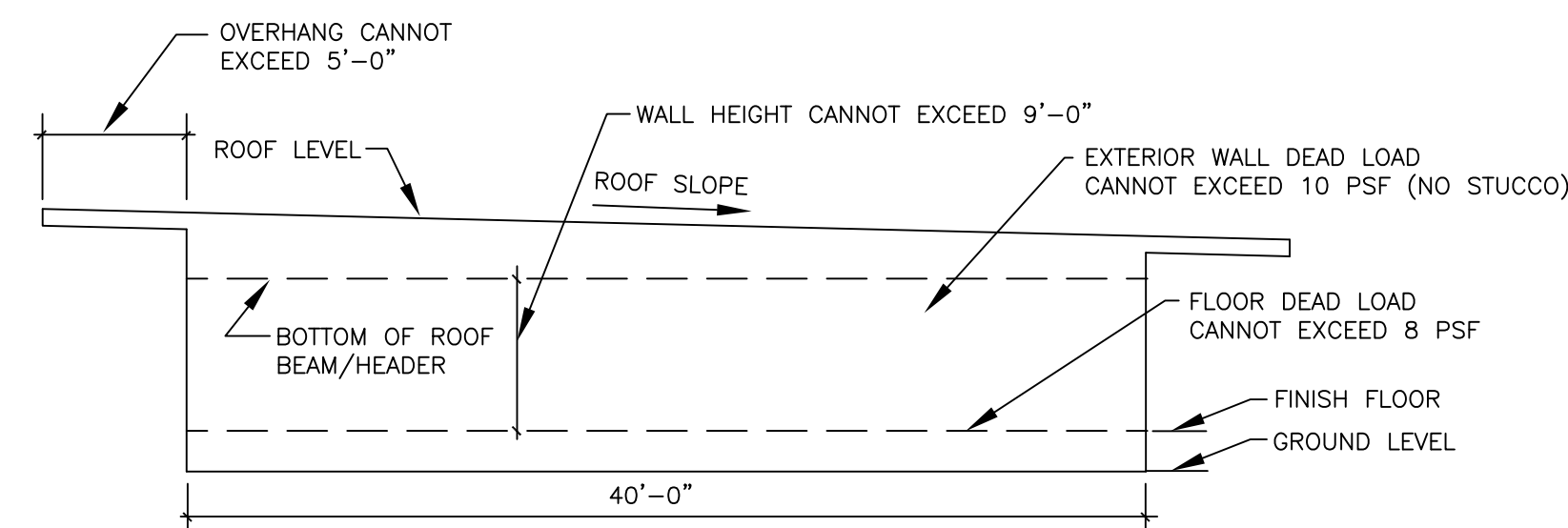
L

**FOUNDATION PC ONLY LIMITATIONS**

THIS WOOD FOUNDATION ONLY PC HAS BEEN DESIGNED TO SUPPORT THE SUPERSTRUCTURE FOR THE RELOCATABLE BUILDINGS LISTED ON SHEET F-2 OF THESE DRAWINGS. THE DESIGN CALCULATIONS HAVE BEEN BASED ON THE FOLLOWING:

- A ROOF OVERHANG OF 5 FEET MAX
- A WALL HEIGHT OF 9 FEET MAX (FROM FINISH FLOOR IN BUILDING TO BOTTOM OF STEEL ROOF BEAMS/HEADERS)
- WALL DEAD LOAD OF 10 PSF (NO STUCCO)
- FLOOR DEAD LOAD OF 8 PSF
- SEE SEISMIC DESIGN DATA, SHEET F-1, FOR  $S_{ps}$  LIMITATIONS FOR SITE.

THE TYPICAL ELEVATIONS BELOW ARE TO CLARIFY THESE LIMITATIONS. DOCUMENTATION SHALL BE PROVIDED BY THE ARCHITECT OR ENGINEER IN GENERAL RESPONSIBLE CHARGE, WHICH NEEDS TO BE REVIEWED AND APPROVED BY THE DSA STRUCTURAL PLAN REVIEWER.



OPTIONS	SHEET TITLE	SHEET NUMBER
COVER SHEET	GENERAL NOTES; APPLICABLE CODES; BUILDING DATA; WIND DESIGN DATA, EARTHQUAKE DESIGN DATA	F-1
ALL	DSA A NUMBER LISTING MATRIX	F-2
24X40	<del>50 PSF + 20 PSF (Ss 2.183)</del>	<del>F-3</del>
	<del>50 PSF (Ss 2.183)</del>	<del>F-3</del>
	<del>50 PSF + 20 PSF (Ss 3.08)</del>	<del>F-3A</del>
	<del>50 PSF (Ss 3.08)</del>	<del>F-3A</del>
	<del>100 PSF (Ss 2.183)</del>	<del>F-3B</del>
	<del>125 PSF (Ss 2.183)</del>	<del>F-3B</del>
	<del>100 PSF (Ss 3.08)</del>	<del>F-3C</del>
	<del>125 PSF (Ss 3.08)</del>	<del>F-3C</del>
	<del>50 PSF + 20 PSF (Ss 2.183)</del>	<del>F-4</del>
	<del>50 PSF (Ss 2.183)</del>	<del>F-4</del>
	<del>50 PSF + 20 PSF (Ss 3.08)</del>	<del>F-4A</del>
	<del>100 PSF (Ss 2.183)</del>	<del>F-4B</del>
<del>125 PSF (Ss 2.183)</del>	<del>F-4B</del>	
<del>100 PSF (Ss 3.08)</del>	<del>F-4C</del>	
<del>125 PSF (Ss 3.08)</del>	<del>F-4C</del>	
<del>50 PSF + 20 PSF (Ss 2.183)</del>	<del>F-5</del>	
<del>50 PSF (Ss 2.183)</del>	<del>F-5</del>	
<del>50 PSF + 20 PSF (Ss 3.08)</del>	<del>F-5A</del>	
<del>50 PSF (Ss 3.08)</del>	<del>F-5A</del>	
<del>100 PSF (Ss 2.183)</del>	<del>F-5B</del>	
<del>125 PSF (Ss 2.183)</del>	<del>F-5B</del>	
<del>100 PSF (Ss 3.08)</del>	<del>F-5C</del>	
<del>125 PSF (Ss 3.08)</del>	<del>F-5C</del>	
ALL	REFERENCE DETAILS	F-6
ALL	DSA FORM 103	F-7
ALL	GENERAL SPECIFICATIONS	F-7A
ALL	ADJACENT BLDGS DETAILS	F-8
ALL	ADJACENT BLDGS DETAILS	F-9

DESIGN DATA	
NUMBER OF STORIES:	1-STORY
OCCUPANCY:	<input checked="" type="checkbox"/> E-1 <input type="checkbox"/> E-2 <input type="checkbox"/> E-3
TYPE OF CONSTRUCTION:	VB
FLOOR LIVE LOAD:	<input checked="" type="checkbox"/> 50 PSF <input type="checkbox"/> 50 PSF + 20 PSF PARTITION LOAD
FLOOR LIVE LOAD:	<input type="checkbox"/> 100 PSF <input type="checkbox"/> 125 PSF
ROOF LIVE LOAD:	<input checked="" type="checkbox"/> 20 PSF (PROJECT IS NOT LOCATED IN A SNOW LOAD AREA)
BUILDING AREA:	<input type="checkbox"/> 24'x40' (960 S.F.) <input checked="" type="checkbox"/> 36'x40' (1,440 S.F.) <input type="checkbox"/> 48'x40' (1,920 S.F.)
ALLOWABLE BUILDING AREA (MAX):	9,500 S.F.
FOUNDATION:	<input checked="" type="checkbox"/> WOOD <input type="checkbox"/> WAIVER OF DURABILITY <input type="checkbox"/> NON-PERMANENT FOUNDATION
<b>WIND DESIGN DATA</b> SECTION 1603.A.1.4	
1. ULTIMATE WIND SPEED .3 SEC GUST (MPH):	110
2. RISK CATEGORY:	II
3. WIND EXPOSURE:	"C"
4. APPLICABLE INTERNAL PRESSURE COEFFICIENT:	+ or - 0.18 Kzt = 1.0
<b>EARTHQUAKE DESIGN DATA</b> SECTION 1603.A.1.5	
1. SEISMIC IMPORTANCE FACTOR:	1
2. MAPPED SPECTRAL RESPONSE:	
OPTION Ss:	3.08    2.183
Ss	3.08    2.183
S1	1.389    1.389
3. SITE CLASS	
D	
4. SPECTRAL RESPONSE COEFFICIENTS:	
OPTION Ss:	3.08    2.183
Sds	2.464    1.476
SD1	1.574    1.574
5. SEISMIC DESIGN CATEGORY:	
E	
6. BASIC SEISMIC-FORCE-RESISTANCE-SYSTEM	
<input type="checkbox"/> LIGHT MODULAR STEEL MOMENT FRAME	
7. DESIGN BASE SHEAR:	
OPTION	3.08    2.183
24'x40'	16,210#    11,480#
36'x40'	24,310#    17,210#
48'x40'	32,420#    22,950#
8. SEISMIC RESPONSE COEFFICIENT (Cs)	
OPTION	3.08    2.183
Cs	0.493    0.349
9. RESPONSE MODIFICATION FACTOR (R)	
EQUIVALENT LATERAL FORCE	
NO HORIZONTAL OR VERTICAL IRREGULARITIES PRESENT	
10. ANALYSIS PROCEDURE USED:	
PROJECT IS NOT LOCATED IN FLOOD ZONE	
11. FLOOD DESIGN DATA:	

PRE-CHECK (PC) DOCUMENT  
CODE: 2019 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MOBILE MODULAR MANAGEMENT  
11450 MISSION BLVD.  
MIRA LOMA, CA 91752

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 04-119396 PC  
REVIEWED FOR  
SS  FLS  ACS  CG   
DATE: 10/29/2020

PC 04-119396  
COVER SHEET

DRAWN  
CHECKED  
DATE  
AUG. 15, 2020  
SCALE  
JOB NO.  
F - 1  
OF 19 SHEETS

SITE SPECIFIC APPROVAL	DSA PC STAMP PRE-CHECK (PC) DOCUMENT CODE: 2019 CBC A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED	APPROVAL - PC ENGINEER OF RECORD  Date Signed: September 24, 2020	MEMBER STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA AMERICAN CONCRETE INSTITUTE (909) 613-0234 Fax(909) 613-0238	EXL STRUCTURAL ENGINEERS, INC. 4091 RIVERSIDE DRIVE, SUITE 114 CHINO, CALIFORNIA 91710	TABLE OF CONTENTS			
					Sheet No	Description	Dated	Revised

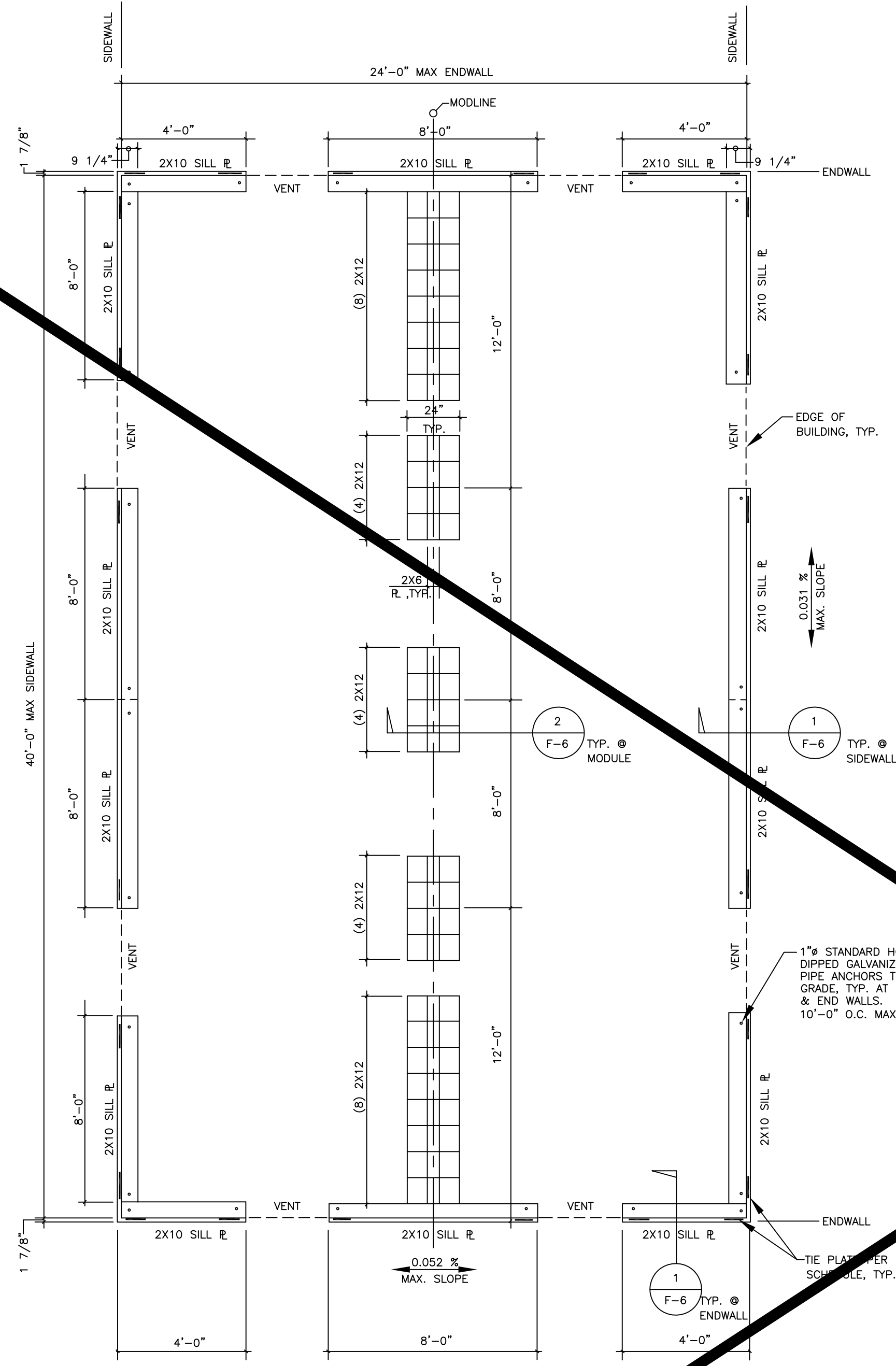
This drawing and the material contained therein are the property of Mobile Modular Management Corporation (MMC) and shall not be reproduced, copied or otherwise disposed of directly or indirectly and shall not be used in whole or in part to assist in the making of, or for the purpose of furnishing, any information for the making of drawings, prints, apparatus or parts thereof without the full knowledge and written consent of MMC and all patentable material contained herein and originating with MMC and shall be the property of MMC.



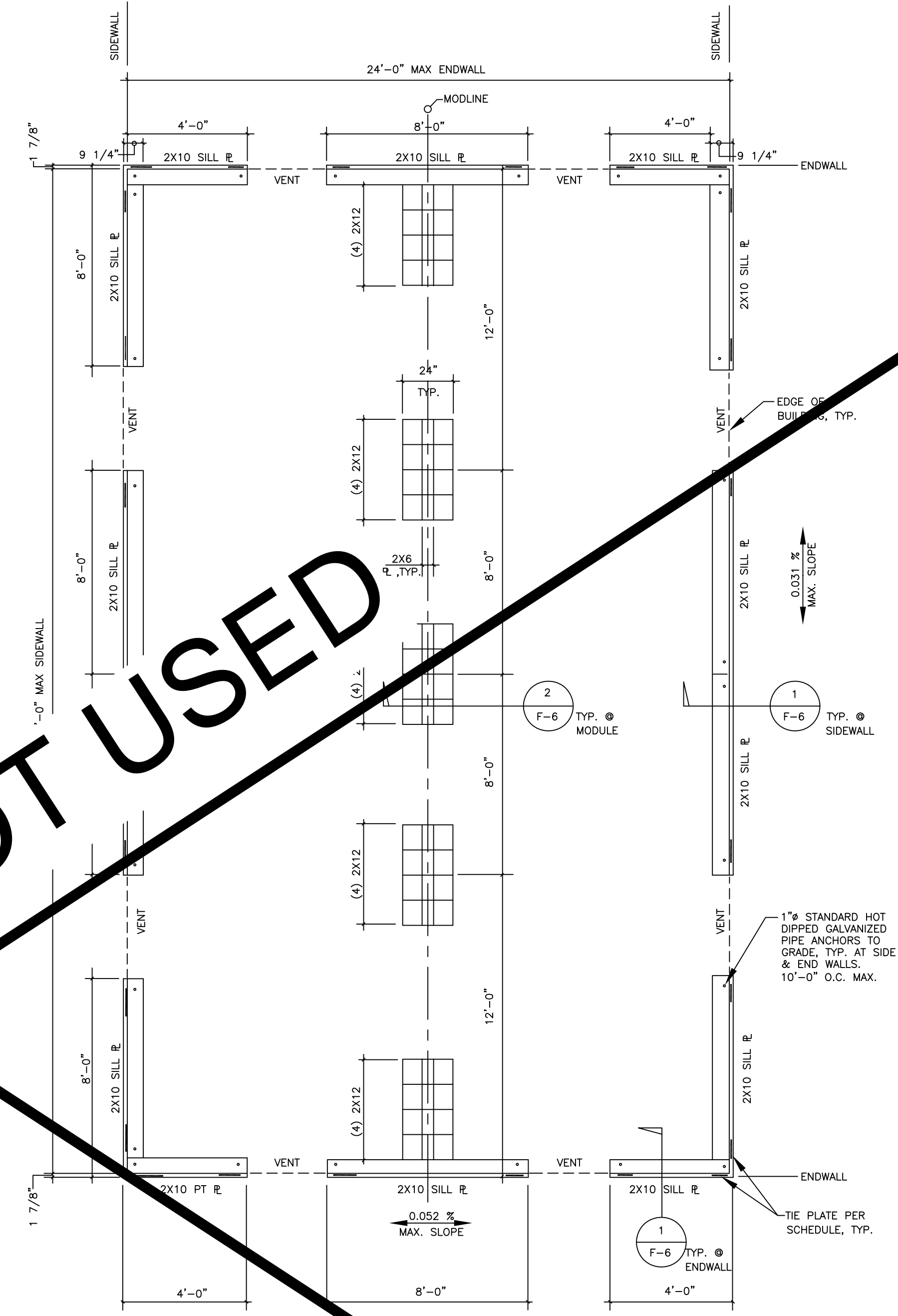




$S_s = 2.183$  (MAPPED VALUE)



FOUNDATION PLAN - 50 PSF FLOOR LIVE LOAD + 20 PSF PARTITIONS



FOUNDATION PLAN - 50 PSF FLOOR LIVE LOAD

**NOT USED**

**NOTES:**

- SEE SHEET F-1 FOR GENERAL NOTES.
  - SEE SHEET F-7 FOR TYPICAL NOTES.
  - UNDER FLOOR VENTILATION: (@24'x40' BLDG.)\*  
REQUIRED VENT. AREA = 24' x 40'/150 = 6.4 SQ. FT.  
MIN. VENT. AREA PROVIDED = 0.25' x (4x4 + 4x 3.385) = 7.38 SQ. FT. (OK)
  - UNDER FLOOR VENTILATION: (@36'x40' BLDG.)\*  
REQUIRED VENT. AREA = 36'x40'/150 = 9.6 SQ. FT.  
MIN. VENT. AREA PROVIDED = 0.375' x (6x4 + 4x3.387) = 14.08 SQ. FT. (OK)
  - UNDER FLOOR VENTILATION: (@48'x40' BLDG.)\*  
REQUIRED VENT. AREA = 48'x40'/150 = 12.8 SQ. FT.  
MIN. VENT. AREA PROVIDED = 0.375' x (8x4 + 4x3.385) = 17.08 SQ. FT. (OK)
  - PROVIDE 2-2X PLATES OR BLOCKS @ 24'x40' BUILDING (MIN. HEIGHT = 3")  
PROVIDE 3-2X PLATES OR BLOCKS @ 36' & 48'x40' BUILDINGS (MIN. HEIGHT = 4 1/2")
  - ALLOWABLE SOIL BEARING = 1000 PSF, PER DSA I.R.16-1
  - ALL NAILS FOR PLATE TO PLATE NAILING SHALL BE 16d GALV. BOX.  
ALL NAILS FOR PLYWOOD SKIRTING SHALL BE 8d GALV. BOX.  
ALL FOUNDATION NAILS SHALL BE HOT DIPPED GALVANIZED WITH A MIN. OF 1 OZ. OF ZINC PER SQ. FT.
  - UNDER FLOOR DRAINAGE SHALL BE PROVIDED TO PREVENT WATER FROM PONDING BENEATH THE STRUCTURE. UNDER FLOOR DRAINAGE SHALL BE NOTED AND DETAILED ON THE PROJECT SPECIFIC SITE PLANS.
  - HEIGHT OF BUILT UP PLATES WITH SILL PLATE IS NOT TO EXCEED 18" MAX.
  - ALL 2X PLATES AT EXTERIOR FOUNDATIONS AND 2X6 PLATES AT MODLINES TO BE 4' OR 8' LONG WITH NO SPLICES. IF SHORTER PIECES OF 2X PLATES ARE TO BE USED, SPLICE PLATE PER DETAIL 9/F-6.
- \* NOTE: UNDER FLOOR VENTILATION CALCULATION BASED ON 3" OR 4 1/2" HIGH VENTS. CALCULATIONS CAN VARY BASED ON ACTUAL SITE GRADE ELEVATIONS AND VENT HEIGHTS. MIN. VENT HEIGHT = 1 1/2" AND MAX. VENT HEIGHT = 16 1/2". PROVIDE NOTED REQUIRED VENT. AREA FOR EACH SIZE BUILDING.

1/4" = 1'-0"

TIE PLATE SCHEDULE: (1) (2) (3) 50 PSF / 50 + 20 PSF $S_s = 2.183$			TIE PLATE SCHEDULE: (1) (2) (3) 50 PSF / 50 + 20 PSF $S_s = 2.183$			SHOT PIN SCHEDULE: 50 PSF / 50 + 20 PSF $S_s = 2.183$		
Building Size	NUMBER OF TIE PLATES PER ENDWALL	NUMBER OF TIE PLATES PER SIDEWALL	Building Size	NUMBER OF TIE PLATES PER ENDWALL	NUMBER OF TIE PLATES PER SIDEWALL	Building Size	NUMBER OF SHOT PINS PER ENDWALL	SHOT PINS PER SIDEWALL
24'x40'	4	4	24'x40'	5	6	24'x40'	15"	32" O.C.
36'x40'	6	6	36'x40'	7	7	36'x40'	19" O.C.	21" O.C.
48'x40'	8	8	48'x40'	9	9	48'x40'	19" O.C.	16" O.C.

\*End Wall is the 24', 36' or 48' Long Wall of the Building  
\*Side Wall is the 40' Long Wall of Each Building

(1) SEE DETAIL 7/F-6 FOR TYPICAL TIE PLATE  
(2) USE TIE PLATES FOR ALL MODULAR BUILDING MANUFACTURERS EXCEPT AMERICAN MODULAR  
(3) SEE DETAIL 8/F-6 FOR THE PLATE APPLICABLE TO AMERICAN MODULAR SYSTEMS, INC.

SITE SPECIFIC APPROVAL	DSA PC STAMP PRE-CHECK (PC) DOCUMENT CODE: 2019 CBC A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED	APPROVAL - PC ENGINEER OF RECORD  Date Signed: September 24, 2020
------------------------	--	---

**EXL**  
STRUCTURAL ENGINEERS, INC.

4091 RIVERSIDE DRIVE, SUITE 114  
CHINO, CALIFORNIA 91710

MEMBER  
STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA  
AMERICAN CONCRETE INSTITUTE  
(909) 613-0234  
Fax(909) 613-0238

TABLE OF CONTENTS			
Sheet No	Description	Dated	Revised

PRE-CHECK (PC) DOCUMENT  
CODE: 2019 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MOBILE MODULAR MANAGEMENT  
11450 MISSION BLVD.  
MIRA LOMA, CA 91752

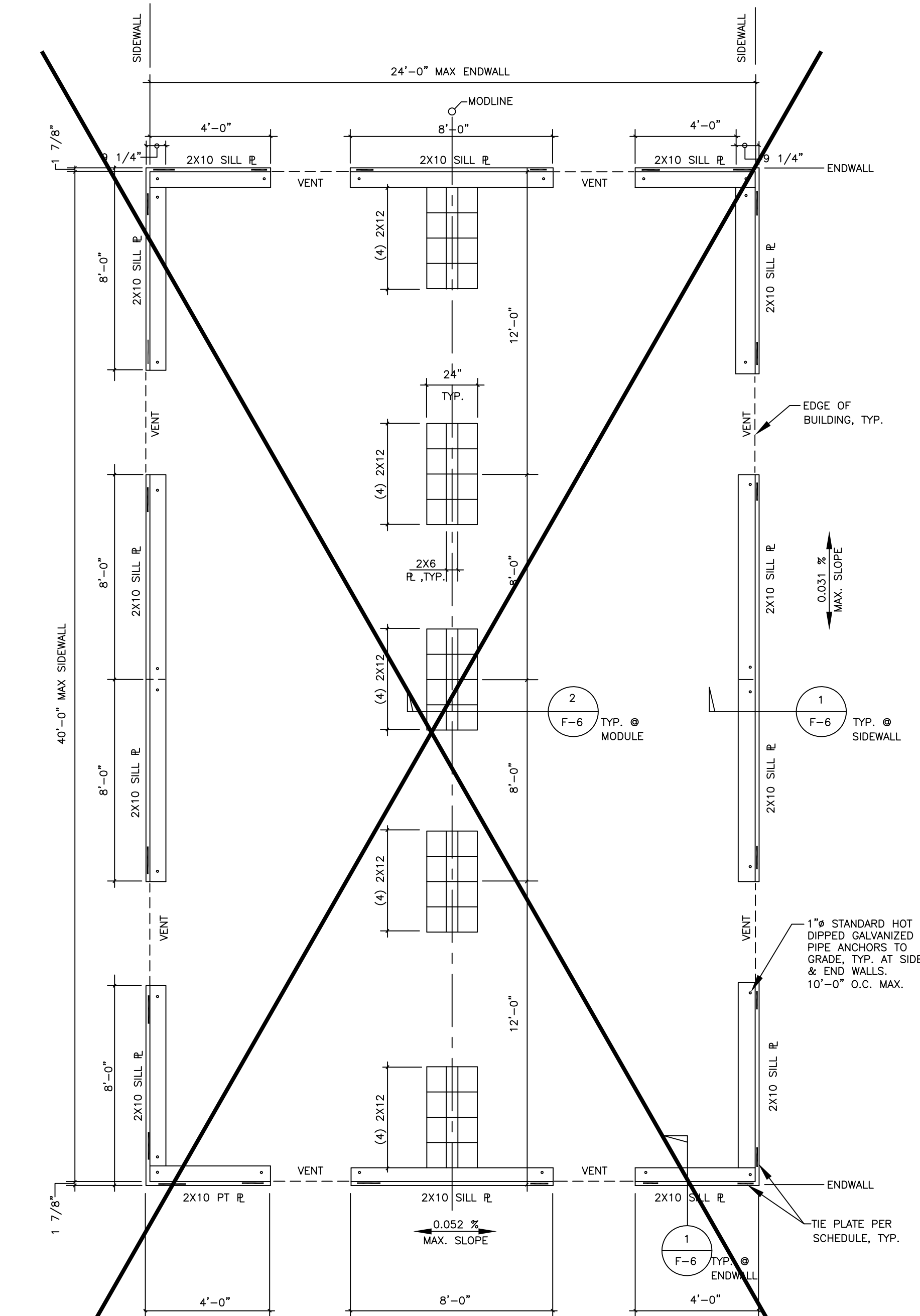
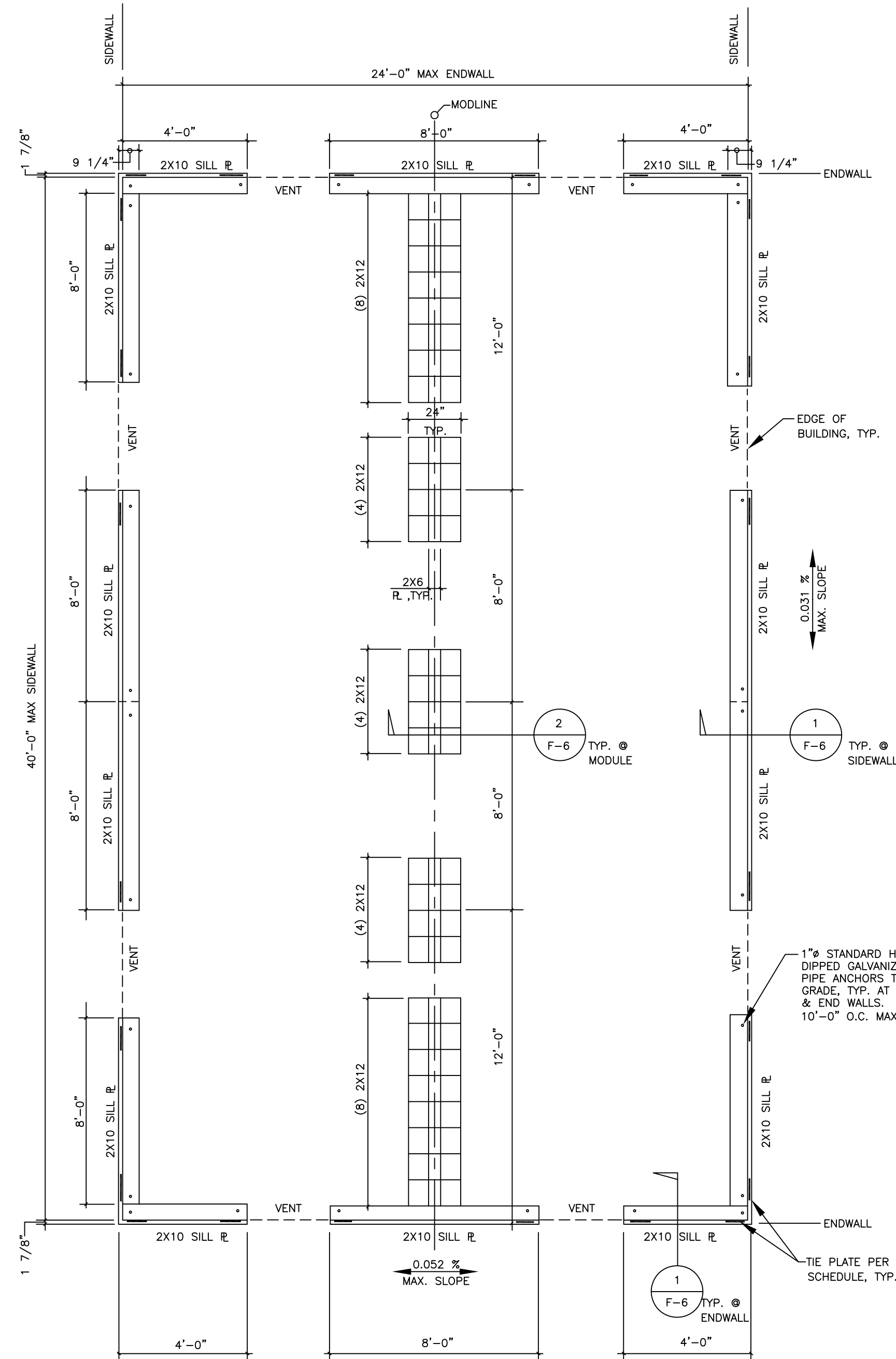
IDENTIFICATION STAMP  
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APP: 04-119396 PC  
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DATE: 10/29/2020

PC 04-119396  
FOUNDATION PLANS

DRAWN  
CHECKED  
DATE  
AUG. 15, 2020  
SCALE  
JOB NO.  
F-3  
OF 19 SHEETS



$S_s = 3.08$  (MAPPED VALUE)



FOUNDATION PLAN - 50 PSF FLOOR LIVE LOAD + 20 PSF PARTITIONS

FOUNDATION PLAN - 50 PSF FLOOR LIVE LOAD

1/4" = 1'-0"

1/4" = 1'-0"

NOTES:

- SEE SHEET F-1 FOR GENERAL NOTES.
- SEE SHEET F-7 FOR TYPICAL NOTES.
- UNDER FLOOR VENTILATION: (@24'X40' BLDG.)\*  
REQUIRED VENT. AREA =  $24' \times 40' / 150 = 6.4$  SQ. FT.  
MIN. VENT. AREA PROVIDED =  $0.25' \times (4 \times 4 + 4 \times 3.385) = 7.38$  SQ. FT. (OK)
- UNDER FLOOR VENTILATION: (@36'X40' BLDG.)\*  
REQUIRED VENT. AREA =  $36' \times 40' / 150 = 9.6$  SQ. FT.  
MIN. VENT. AREA PROVIDED =  $0.375' \times (6 \times 4 + 4 \times 3.387) = 14.08$  SQ. FT. (OK)
- UNDER FLOOR VENTILATION: (@48'X40' BLDG.)\*  
REQUIRED VENT. AREA =  $48' \times 40' / 150 = 12.8$  SQ. FT.  
MIN. VENT. AREA PROVIDED =  $0.375' \times (8 \times 4 + 4 \times 3.385) = 17.08$  SQ. FT. (OK)
- PROVIDE 2-2X PLATES OR BLOCKS @ 24'X40' BUILDING (MIN. HEIGHT = 3")  
PROVIDE 3-2X PLATES OR BLOCKS @ 36' & 48'X40' BUILDINGS (MIN. HEIGHT = 4 1/2")
- ALLOWABLE SOIL BEARING = 1000 PSF, PER DSA I.R.16-1.
- ALL NAILS FOR PLATE TO PLATE NAILING SHALL BE 16d GALV. BOX.  
ALL NAILS FOR PLYWOOD SKIRTING SHALL BE 8d GALV. BOX.  
ALL FOUNDATION NAILS SHALL BE HOT DIPPED GALVANIZED WITH A MIN. OF 1 OZ. OF ZINC PER SQ. FT.
- UNDER FLOOR DRAINAGE SHALL BE PROVIDED TO PREVENT WATER FROM PONDING BENEATH THE STRUCTURE. UNDER FLOOR DRAINAGE SHALL BE NOTED AND DETAILED ON THE PROJECT SPECIFIC SITE PLANS.
- HEIGHT OF BUILT UP PLATES WITH SILL PLATE IS NOT TO EXCEED 18" MAX.
- ALL 2X PLATES AT EXTERIOR FOUNDATIONS AND 2X6 PLATES AT MODLINES TO BE 4' OR 8' LONG WITH NO SPLICES. IF SHORTER PIECES OF 2X PLATES ARE TO BE USED, SPLICE PLATES PER DETAIL 9/F-6.
- \* NOTE: UNDER FLOOR VENTILATION CALCULATION BASED ON 3" OR 4 1/2" HIGH VENTS. CALCULATIONS CAN VARY BASED ON ACTUAL SITE GRADE ELEVATIONS AND VENT HEIGHTS. MIN. VENT HEIGHT = 1 1/2" AND MAX. VENT HEIGHT = 16 1/2". PROVIDE NOTED REQUIRED VENT. AREA FOR EACH SIZE BUILDING.

TIE PLATE SCHEDULE: (1) (2) (3) 50 PSF / 50 + 20 PSF $S_s = 3.08$		
Building Size	NUMBER OF TIE PL'S PER ENDWALL	NUMBER OF TIE PL'S PER SIDEWALL
24'x40'	6	6
36'x40'	9	9
48'x40'	12	12

(1) SEE DETAIL 7/F-6 FOR TYPICAL TIE PLATE  
(2) USE TIE PLATES FOR ALL MODULAR BUILDING MANUFACTURERS EXCEPT AMERICAN MODULAR  
(3) SEE DETAIL 8/F-6 FOR TIE PLATE APPLICABLE TO AMERICAN MODULAR SYSTEMS, INC.

TIE PLATE SCHEDULE: (1) (2) (3) 50 PSF / 50 + 20 PSF $S_s = 3.08$ AMERICAN MODULAR SYSTEMS, INC.		
Building Size	NUMBER OF TIE PL'S PER ENDWALL	NUMBER OF TIE PL'S PER SIDEWALL
24'x40'	6	6
36'x40'	9	9
48'x40'	12	12

\*End Wall is the 24', 36' or 48' Long Wall of the Building  
\*Side Wall is the 40' Long Wall of Each Building

SHOT PIN SCHEDULE: 50 PSF / 50 + 20 PSF $S_s = 3.08$ AMERICAN MODULAR SYSTEMS, INC.		
Building Size	NUMBER OF SHOT PINS PER ENDWALL	SHOT PINS PER SIDEWALL
24'x40'	13" O.C.	23" O.C.
36'x40'	13" O.C.	15" O.C.
48'x40'	13" O.C.	11" O.C.

\*End Wall is the 24', 36' or 48' Long Wall of the Building  
\*Side Wall is the 40' Long Wall of Each Building

SITE SPECIFIC APPROVAL

DSA PC STAMP

APPROVAL - PC ENGINEER OF RECORD

PRE-CHECK (PC) DOCUMENT  
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A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED



Date Signed: September 24, 2020

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STRUCTURAL ENGINEERS, INC.

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CHINO, CALIFORNIA 91710

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PC 04-119396  
FOUNDATION PLANS

DRAWN  
CHECKED  
DATE  
AUG. 15, 2020  
SCALE  
JOB NO.  
F-3A  
OF 19 SHEETS















































# GENERAL SPECIFICATIONS

## SECTION 1A

### 1. GENERAL

A. THE REQUIREMENTS OF THE GENERAL CONDITIONS OF THE AGREEMENT AND THIS GENERAL REQUIREMENTS APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH SECTION.

B. NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD OF QUALITY. ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND NAMED PRODUCTS.

### 2. SCOPE OF WORK

A. THE WORK CONSISTS OF MANUFACTURING OFF-SITE IN A PLANT, AND INSTALLING ON-SITE, MODULAR RELOCATABLE BUILDING AS DEFINED HEREIN AND SHOWN AND DETAILED ON DRAWINGS.

B. ALL REQUIREMENTS OF TITLE 19 AND 24 OF THE STATE OF CALIFORNIA CODE OF REGULATIONS (CCR) RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:

1. GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION BY THE ARCHITECT OF RECORD.

2. INSPECTION DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT. THE INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED TO INSPECT THE GENERAL CONSTRUCTION, WELDING, MECHANICAL AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICT.

3. ON SITE INSPECTION OF THE BUILDING INSTALLATION ELECTRICAL AND UTILITY OF THE BUILDING INSTALLATION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.

4. OTHER SPECIAL TESTS OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT. COST OF THESE INSPECTIONS/TESTS SHALL BE BORNE BY THE SCHOOL DISTRICT.

### 3. WORK NOT INCLUDED

A. ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.

B. ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT CONCRETE OR WOOD LEVELING STRIPS, WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

C. FIRE ALARM SYSTEM, FIRE EXTINGUISHER, PROGRAM BELL, CLOCK, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TV SYSTEM UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

### 4. WHEELS AND HITCH

SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

### 5. ACCESSIBILITY OF SITE

THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF THE BUILDING. REMOVAL OF TREES, SHRUBS, FENCING, SPRINKLERS, ETC. NECESSARY FOR MOVE-IN AND REMOVAL OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

## SECTION 2A SITE ASSEMBLY

### 1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE.

THE CONDITION OF THE SITE, SUCH AS DRAINAGE AND SOIL BEARING CAPACITY, SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

### 2. ASSEMBLY OF ELEMENTS

A. THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON WHEEL ASSEMBLY AND TRANSFERRED TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING OR BUMPING.

B. CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTIONS ON THE DRAWINGS. FLASHING, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER PLANS AND DETAILS OF THE ORIGINAL MANUFACTURER'S DRAWINGS.

## SECTION 3A CARPENTRY

### 1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL CARPENTRY.

### 2. WORKMANSHIP

A. FRAMING- SECURELY NAILED, BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT, FITTED AND ASSEMBLED LEVEL, PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.

B. NAILING- IN ACCORDANCE WITH TITLE 24 COR- TABLE 2304.10.1. NAILS SHALL BE CORROSION RESISTANT BOX NAILS.

C. MACHINE APPLIED NAILING- SHALL HAVE PRIOR DEMONSTRATION AND APPROVAL BY DSA FIELD INSPECTOR AND THE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUES SATISFACTORY PERFORMANCE. PLYWOOD SHALL HAVE A MINIMUM THICKNESS OF 3/8" IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.

D. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING.

## SECTION 4A MATERIAL SPECIFICATIONS

1. STRUCTURAL FRAMING SHALL BE HEM FIR - GRADED IN ACCORDANCE WITH THE STANDARD GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION OR STANDARD GRADING RULES NO. 16 OF THE WEST COAST LUMBER INSPECTION BUREAU, LATEST EDITIONS. GRADES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS. (HEM FIR SOUTH IS NOT ALLOWED.) EACH PIECE SHALL BE GRADE MARKED AND NO PIECE MAY FALL BELOW GRADES INDICATED.

2. ALL FRAMING EXCEPT AS NOTED HEM FIR NO. 2. PLYWOOD SHALL BE AS SHOWN ON THESE DRAWINGS WITH EXTERIOR GLUE IN ACCORDANCE WITH U.S. PRODUCT STANDARD DOC PS 1-07 OR DOC PS-04.

ALL PANELS SHALL BE MARKED WITH AN APA GRADE MARK WITH AN IDENTIFICATION INDEX AS SHOWN ON DRAWINGS. USE 4'x8' PANELS, MINIMUM, EXCEPT AT BOUNDARIES AND FRAMING CHANGES WHERE MINIMUM PANEL DIMENSION SHALL BE 24" AT ROOFS AND FLOORS AND 12" AT WALLS.

3. BOLTS FOR TIMBER CONNECTIONS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1-2012 AND 2015 EDITION OF THE NDS. BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF OF THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION (NDS). BOLT HOLES SHALL BE 1/32 TO 1/16 INCH LARGER THAN BOLT DIAMETER. RE-TIGHTEN BOLTS BEFORE CLOSING IN WORK. BOLTS SHALL BE FULL BODY STEEL BOLTS WITH MINIMUM YIELD STRENGTH OF 45,000 PSI.

4. LAG SCREWS SHALL BE STEEL AND CONFORM TO ANSI/ASME STANDARD B18.2.1 AND THE REQUIREMENTS OF THE 2015 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS). HOLES FOR LAG SCREW SHANKS SHALL BE BORED THE SAME DEPTH AND DIAMETER AS THE SHANK. THE REMAINING DEPTH OF PENETRATION OF THE SCREW SHALL BE BORED TO 70% OF THE SHANK DIAMETER. ONE QUARTER INCH (1/4") DIAMETER LAG SCREWS NEED NOT HAVE PRE-DRILLED HOLES IF IT CAN BE SHOWN THAT THE WOOD MEMBERS ARE NOT DAMAGED DURING INSTALLATION. PROVIDE FULL DIAMETER BODY LAG SCREWS WITH BENDING YIELD STRENGTHS PER TABLE 12J AND 12K IN NDS.

5. PROVIDE MALLEABLE IRON WASHERS OR EQUIVALENT CUT PLATE WASHERS (NOT LESS THAN A STANDARD CUT WASHER) UNDER NUTS AND BOLT OR LAG SCREW HEADS WHICH BEAR ON WOOD.

6. WOOD SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.6.1 AND THE REQUIREMENTS OF THE 2015 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION (NDS). GALVANIZED OR OTHER CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER OR USED IN FOUNDATIONS. SCREWS SHALL BE STEEL WITH CUT THREADS AND BENDING YIELD STRENGTHS PER TABLES 12L AND 12M IN NDS.

7. WOOD MEMBERS SHALL BE CUT OR NOTCHED ONLY AS SHOWN ON STRUCTURAL DRAWINGS.

8. WHEN REQUIRED NAILING TENDS TO SPLIT WOOD MEMBERS, NAIL HOLES SHALL BE PRE-BORED TO 3/4 OF THE NAIL DIAMETER.

9. STRUCTURAL NAILING SHALL BE WITH BOX NAILS PER ALL REQUIREMENTS OF 2015 NDS. NAILING NOT SPECIFICALLY INDICATED SHALL COMPLY WITH CCR TITLE 24, PART 2, TABLE 2304.9.1. ALL NAILS SHALL BE GALVANIZED OR OTHER CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER, IN FOUNDATIONS AND AS NOTED ON PLANS, PER THE REQUIREMENTS OF CCR TITLE 24, PART 2, WITH MINIMUM BENDING YIELDS PER TABLE 12N, 12P, 12Q AND 12R IN NDS. (SEE NAIL EQUIVALENCE BELOW.)

10. NAIL EQUIVALENCE: (PROVIDE MINIMUM NAIL LENGTHS AS REQUIRED FOR SPECIFIED PENETRATION, TYP. U.O.A.)

6d EQUALS .113" DIA. - PROVIDE 1.36" MIN POINT PENETRATION

8d EQUALS .131" DIA. - PROVIDE \*1.57" MIN POINT PENETRATION

10d EQUALS .148" DIA. - PROVIDE \*1.78" MIN POINT PENETRATION

16d EQUALS .162" DIA. - PROVIDE \*1.94" MIN POINT PENETRATION

\* 1 1/2" AT 2x MEMBERS

11. PRESSURE PRESERVATIVE TREATMENT SHALL BE PER SECTION 2303.1.9, CCR TITLE 24, PART 2. PROVIDE QUALITY MARK ON ALL TREATED FOUNDATION MEMBERS. PRESSURE TREATED WOOD AND IDENTIFICATION MUST COMPLY WITH CBC 2303.1.9.1. ALL FOUNDATION MEMBERS SHALL BE MARKED AS "FOR GROUND CONTACT (UC4A)" OR "FOR ABOVE GROUND USE (UC3A OR UC3B)" AS APPROPRIATE. TREAT ALL CUT ENDS OF PRESSURE TREATED MEMBERS WITH AN APPROVED PRESERVATIVE. (WILLARD W/B COPPER GREEN 2% OR AN APPROVED EQUIVALENT) WHERE NOTED, MEMBERS BELOW THE SUB FLOOR THAT ARE NOT A PART OF THE FOUNDATION SHALL BE PRESSURE TREATED PER AWP STANDARD UI.

12. ONLY MATERIAL IN CONTACT WITH GROUND NEEDS TO BE PRESSURE TREATED, ALL OTHER FOUNDATION LUMBER CAN BE DF OR HF#2 OR EQUAL.

13. IF MACHINE NAILING IS UTILIZED FOR THIS PROJECT, CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF CCR TITLE 24, PART 2. MACHINE NAILING IS SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER OR ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT.

14. FASTENERS FOR PRESSURE-PRESERVATIVE TREATED AND FIRE-RETARDANT TREATED WOOD SHALL COMPLY WITH SEC. 2304.10 OF CBC.

15. NAILS AND SPIKES USED IN WET OR EXTERIOR LOCATIONS SHALL COMPLY WITH SEC. 2304.10.5.1 OF CBC.

16. SHIM MATERIAL SHALL BE PLYWOOD CD EXP 1 OR EQUAL (NOT P.T.).


17. USED LUMBER IN GOOD CONDITION IS ACCEPTABLE FOR USE IN FOUNDATION SYSTEM.

### SITE INSTALLATION REQUIREMENTS CLAUSE:

SITE INSTALLATION REQUIREMENTS FOR DSA CLASSROOM BUILDINGS, IN THE CASE OF EQUIPMENT LOCATED IN THE STATE OF CALIFORNIA, THE LESSEE IS RESPONSIBLE FOR THE SITE BEING CLEARED (FREE OF GRASS, SHRUBS, TREES, ETC.) AND GRADED TO WITHIN 4 1/2" OF LEVEL GRADE FOR EACH BUILDING. IF THE SITE EXCEEDS THE 4 1/2" REQUIREMENT ADDITIONAL COSTS MAY BE CHARGED TO LESSEE. UNDER NO CIRCUMSTANCES SHOULD THE SITE BE GREATER THAN 9" FROM LEVEL GRADE OR HAVE LESS THAN A 1000 PSF MINIMUM SOIL BEARING PRESSURE. PRIOR TO DELIVERY, THE LESSEE SHALL MARK THE FOUR CORNERS OF THE BUILDING ON THE SITE, INCLUDING THE DOOR LOCATION. SHOULD SPECIAL HANDLING BE REQUIRED TO EITHER PLACE, INSTALL OR REMOVE THE CLASSROOM ON THE LESSEE'S SITE DUE TO SITE OBSTRUCTIONS SUCH AS FENCING, LANDSCAPING, OTHER CLASSROOMS, ETC., ADDITIONAL COSTS WILL BE CHARGED TO LESSEE.

### TEST AND INSPECTIONS:

1. PROVIDE ELECTRICAL GROUNDING TEST PER DSA IR E-1
2. NO OTHER TESTS AND INSPECTIONS ARE REQUIRED.

SITE SPECIFIC APPROVAL	DSA PC STAMP	APPROVAL - PC ENGINEER OF RECORD	MEMBER	TABLE OF CONTENTS			
	PRE-CHECK (PC) DOCUMENT CODE: 2019 CBC A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED		STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA  AMERICAN CONCRETE INSTITUTE  (909) 613-0234 Fax(909) 613-0238	Sheet No	Description	Dated	Revised
		Date Signed: September 24, 2020	4091 RIVERSIDE DRIVE, SUITE 114 CHINO, CALIFORNIA 91710				
			This drawing and the material contained therein are the property of Mobile Modular Management Corporation (MMC) and shall not be reproduced, copied or otherwise disposed of directly or indirectly and shall not be used in whole or in part to assist in the making of, or for the purpose of furnishing, any information for the making of drawings, prints, apparatus or parts thereof without the full knowledge and written consent of MMC and all patentable material contained herein and originating with MMC and shall be the property of MMC.				

PRE-CHECK (PC) DOCUMENT  
CODE: 2019 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MOBILE MODULAR MANAGEMENT  
11450 MISSION BLVD.  
MIRA LOMA, CA 91752

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DIV. OF THE STATE ARCHITECT  
APP: 04-119396 PC  
REVIEWED FOR  
SS  FLS  ACS  CG   
DATE: 10/29/2020

PC 04-119396

GENERAL SPECIFICATIONS

DRAWN  
CHECKED  
DATE  
AUG. 15, 2020  
SCALE  
JOB NO.

F - 7  
OF 19 SHEETS



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

Application Number: 04-119396 School Name: Mobile Modular Management Corp School District: Mobile Modular Management Corp  
 DSA File Number: PC-127 Increment Number: Data Created: 2020-09-01 09:39:04

**2019 CBC**

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

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

**KEY TO COLUMNS**

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

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

Application Number: 04-119396 School Name: Mobile Modular Management Corp School District: Mobile Modular Management Corp  
 DSA File Number: PC-127 Increment Number: Data Created: 2020-09-01 09:39:04

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

- SOILS:**
- 1. Deep foundations acting as a cantilever footing designed based on minimum allowable pressures per CBC Table 1806A.2 and having no geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
  - 2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) ungraded landscaping and playground areas, or E) utility trench backfill.

- CONCRETE/MASONRY:**
- 1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding") given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding."
  - 2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.

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

Application Number: 04-119396 School Name: Mobile Modular Management Corp School District: Mobile Modular Management Corp  
 DSA File Number: PC-127 Increment Number: Data Created: 2020-09-01 09:39:04

- 3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1.16. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
- 4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.
- 5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

- Welding:**
- 1. Solid-clad and open-mesh gates with maximum leaf span or rolling section for rolling gates of 10' and apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
  - 2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the "Exception" language in Section 1705A.2.1); fillet welds shall not be ground flush.
  - 3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
  - 4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections 19, 19.1 and/or 19.2 of listing above).
  - 5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections 19, 19.1 and/or 19.2 of listing above).

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

Application Number: 04-119396 School Name: Mobile Modular Management Corp School District: Mobile Modular Management Corp  
 DSA File Number: PC-127 Increment Number: Data Created: 2020-09-01 09:39:04

- 6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 located in the Steel/Aluminum category).
- 7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/roof, <20# for discrete units or <10# for distributed systems.

**NOTE:**

THE EXAMPLE FORM DSA-103 SHOWN IS FOR ILLUSTRATION PURPOSES ONLY TO ASSIST IN THE COMPLETION OF FUTURE PROJECT-SPECIFIC FORM DSA-103.

A FORM DSA-103 IS TO BE COMPLETED FOR EACH PROJECT APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND THE EXAMPLE FORM DSA-103 IS TO BE CROSSED OUT ON THIS DRAWING

NOT USED

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

Application Number: 04-119396 School Name: Mobile Modular Management Corp School District: Mobile Modular Management Corp  
 DSA File Number: PC-127 Increment Number: Data Created: 2020-09-01 09:39:04

Name of Architect or Engineer in general responsible charge: \_\_\_\_\_

Name of Structural Engineer (When structural design has been delegated): \_\_\_\_\_

Signature of Architect or Structural Engineer: \_\_\_\_\_ Date: \_\_\_\_\_

**Note:** To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

**DSA STAMP**



PRE-CHECK (PC) DOCUMENT  
 CODE: 2019 CBC  
 A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MOBILE MODULAR MANAGEMENT  
 11450 MISSION BLVD.  
 MIRA LOMA, CA 91752

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 APP: 04-119396 PC  
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 SS  FLS  ACS  CG   
 DATE: 10/29/2020

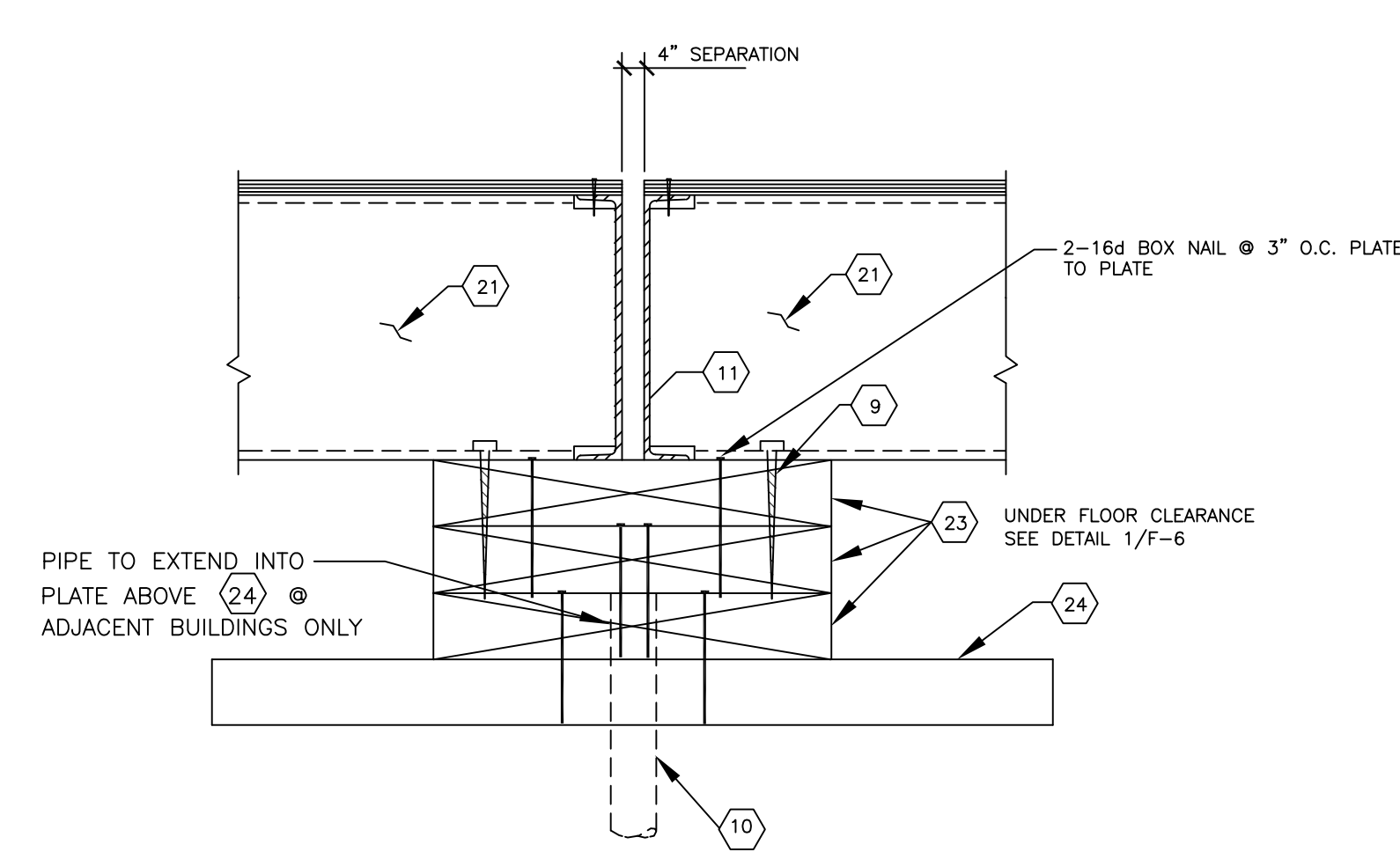
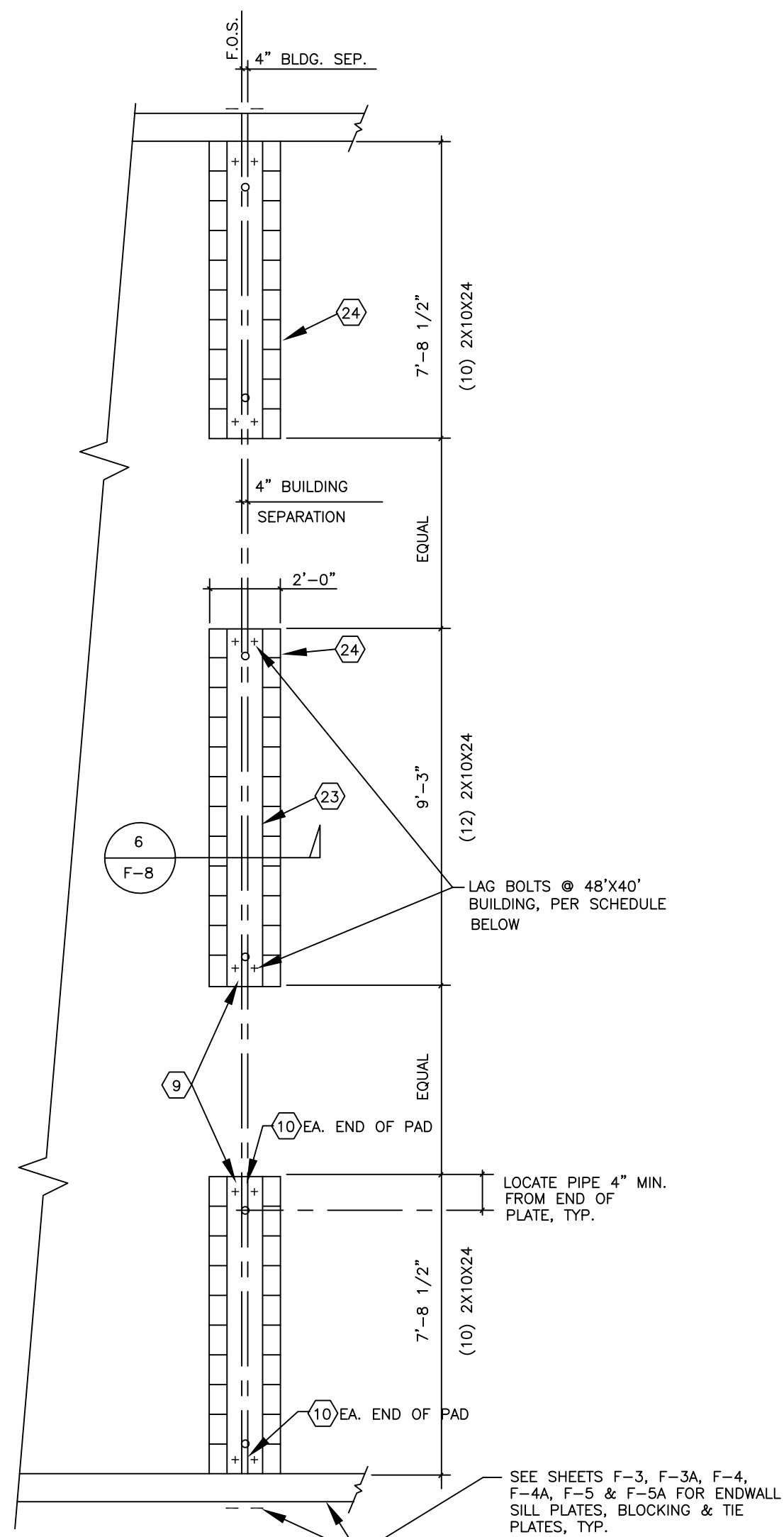
PC 04-119396  
 DSA FORM 103

DRAWN: \_\_\_\_\_  
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 DATE: AUG. 15, 2020  
 SCALE: \_\_\_\_\_  
 JOB NO.: \_\_\_\_\_  
 F-7A  
 OF 19 SHEETS

SITE SPECIFIC APPROVAL	DSA PC STAMP	APPROVAL – PC ENGINEER OF RECORD	MEMBER	TABLE OF CONTENTS			
	PRE-CHECK (PC) DOCUMENT CODE: 2019 CBC A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED	 Date Signed: September 24, 2020	 4091 RIVERSIDE DRIVE, SUITE 114 CHINO, CALIFORNIA 91710 MEMBER STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA AMERICAN CONCRETE INSTITUTE (909) 613-0234 Fax(909) 613-0238	Sheet No	Description	Dated	Revised

MOBILE MODULAR MANAGEMENT PC 1131933 SHEET\_F-7.DWG





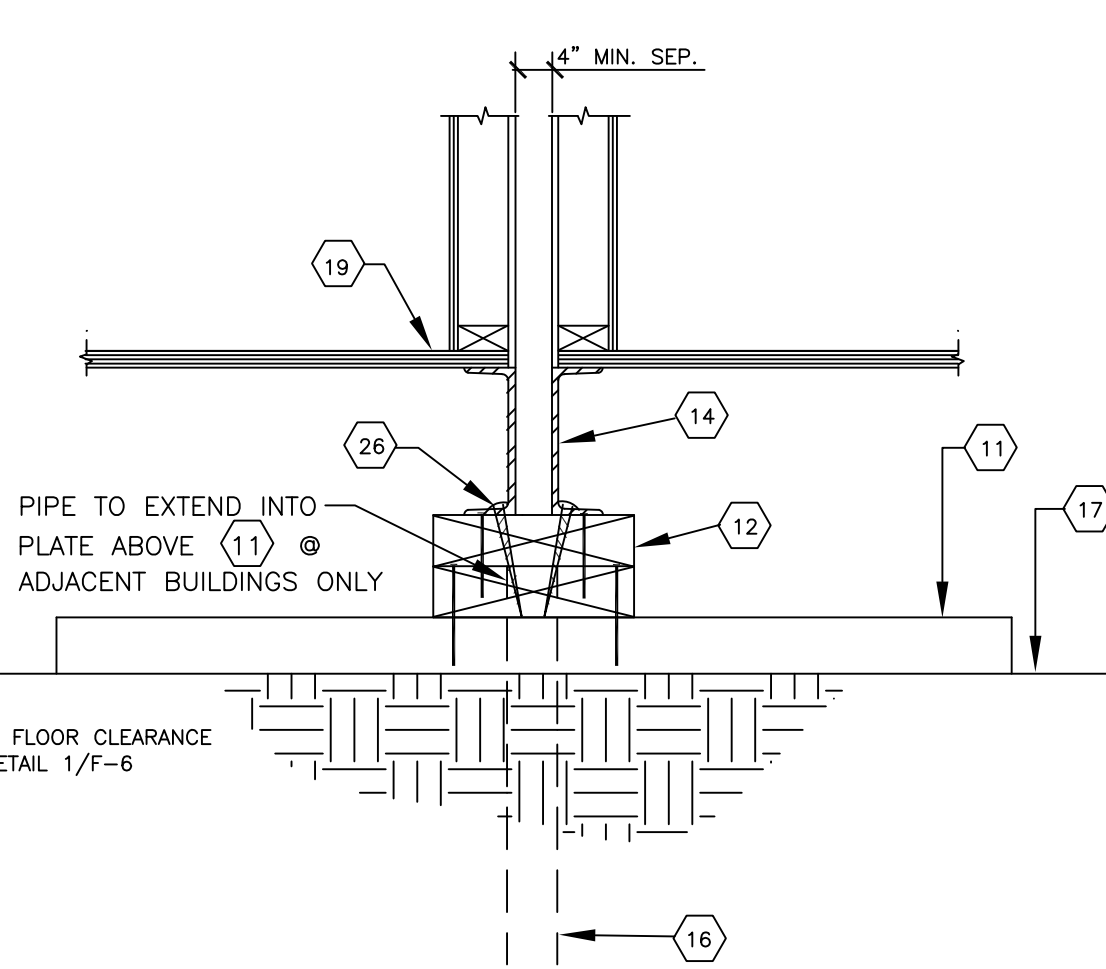
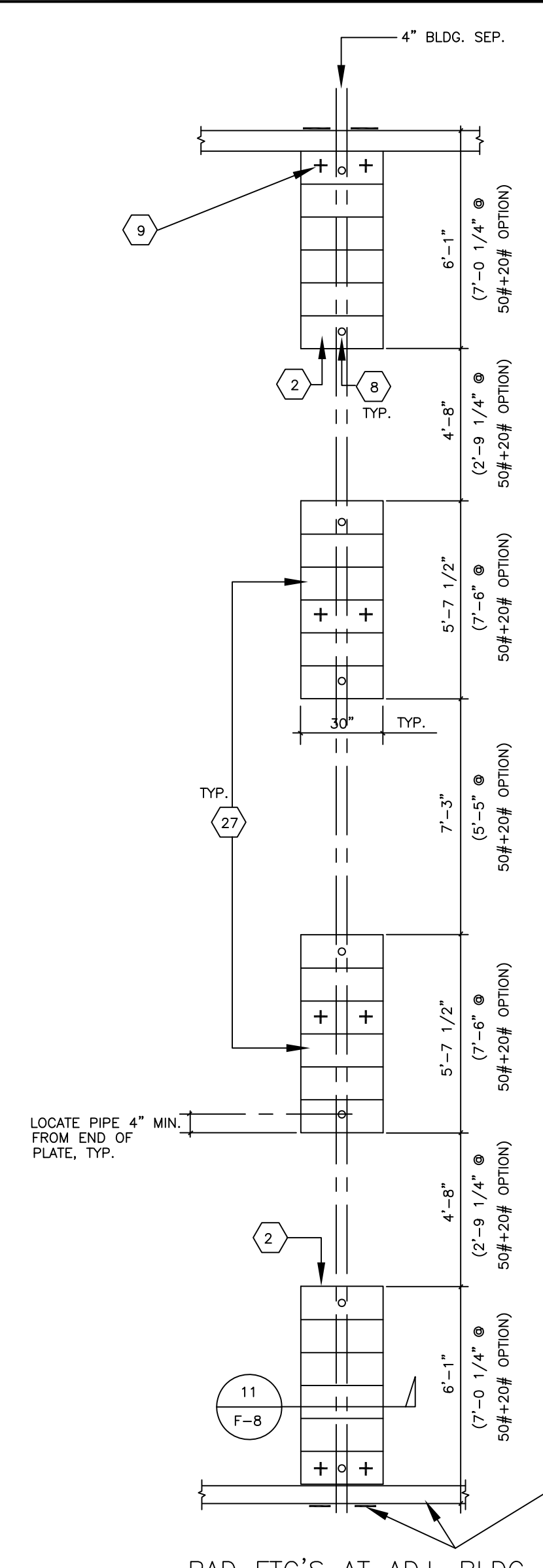
- 9. LAG BOLT AND HOLE PER LAG SCHEDULE TABLE #1 OR TABLE #2
- 10. DRIVE 1" DIA. X 15" G.I. PIPE @ 10'-0" O.C. MAX. DRILL SILL PLATE 1-1/4" MAX. PIPE MAY BE DRIVEN AT MAX. 45 ANGLE TO VERTICAL.
- 11. 7" X 9.8# STEEL FLOOR CHANNEL
- 21. FLOOR JOIST OR BLOCK BETWEEN FLOOR JOIST.
- 23. CONTINUOUS 2X12(SEE PLAN). NAIL(2) 16d AT EACH END AND 7" O.C.
- 24. 2X10X24" LONG SILL PADS. P.T.H.F. (SEE PLAN FOR QUANTITY (10) AT ENDS & (12) AT INTERIOR)

MODULAR STRUCTURES INTERNATIONAL, INC. (MB) 6  
 F-8

ADJACENT BUILDING FOUNDATIONS

SEE SHEET F-2 FOR DSA APPLICATION NUMBERS.

NOTE: ADJACENT BUILDING PLAN DETAILS ARE PER EXISTING APPROVED DSA STOCKPILE PLANS



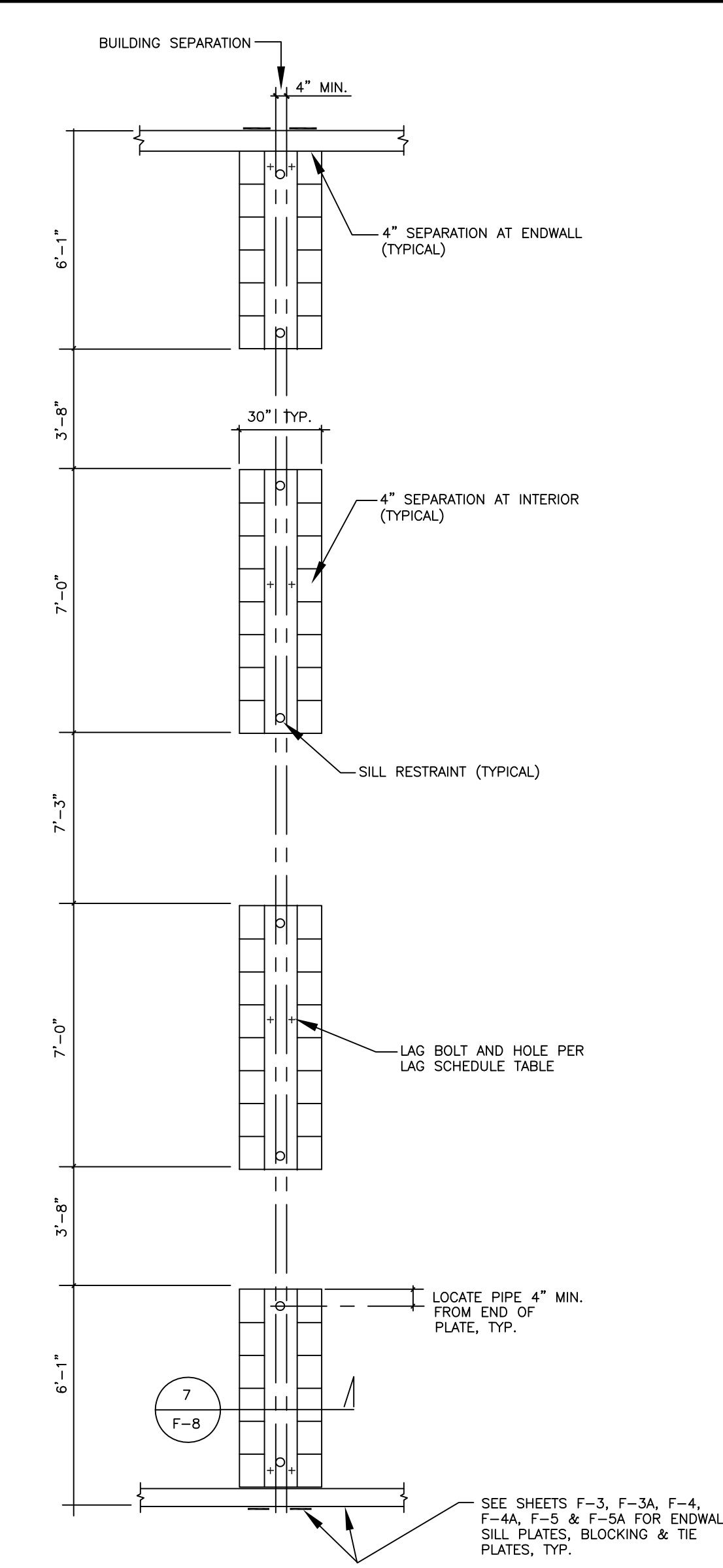
MODTECH, INC.(MT) 11  
 F-8

ADJACENT BUILDING FOUNDATIONS

SEE SHEET F-2 FOR DSA APPLICATION NUMBERS.

NOTE: ADJACENT BUILDING PLAN DETAILS ARE PER EXISTING APPROVED DSA STOCKPILE PLANS

- 2 6-2X12X30" LONG SILL PADS @ 50 PSF, 7-2X12X30" LONG SILL PADS @ 50 PSF + 20 PSF
- 8 1"ØPIPE EA. END EA. PAD AT ADJ. BLDG LINE
- 9 LAG BOLT AND HOLE PER LAG SCHEDULE TABLE
- 11 2X12X2'-6" SILL PLATE SEE FOUND. PLAN FOR QUANTITY REQ'D.
- 12 2 X 12 PLATES W/2-16d BOX @ 3" O.C.
- 14 FLOOR FRAME BEAM SEE STRUCTURAL
- 16 SILL RESTRAINT 1"ØPIPE SEE FOUND. FOR LOCATION
- 17 FINISH GRADE
- 19 PLYWOOD SUBFLOOR
- 26 LAG SCREW QUANTITY TO BE PROVIDED PER LAG SCHEDULE
- 27 6-2X12X30" LONG SILL PADS @ 50 PSF, 8-2X12X30" LONG SILL PADS @ 50 PSF + 20 PSF



WALDEN STRUCTURES & CONSTRUCTION (WS)  
 ADJACENT BUILDING FOUNDATIONS

SEE SHEET F-2 FOR DSA APPLICATION NUMBERS.

NOTE: ADJACENT BUILDING PLAN DETAILS ARE PER EXISTING APPROVED DSA STOCKPILE PLANS

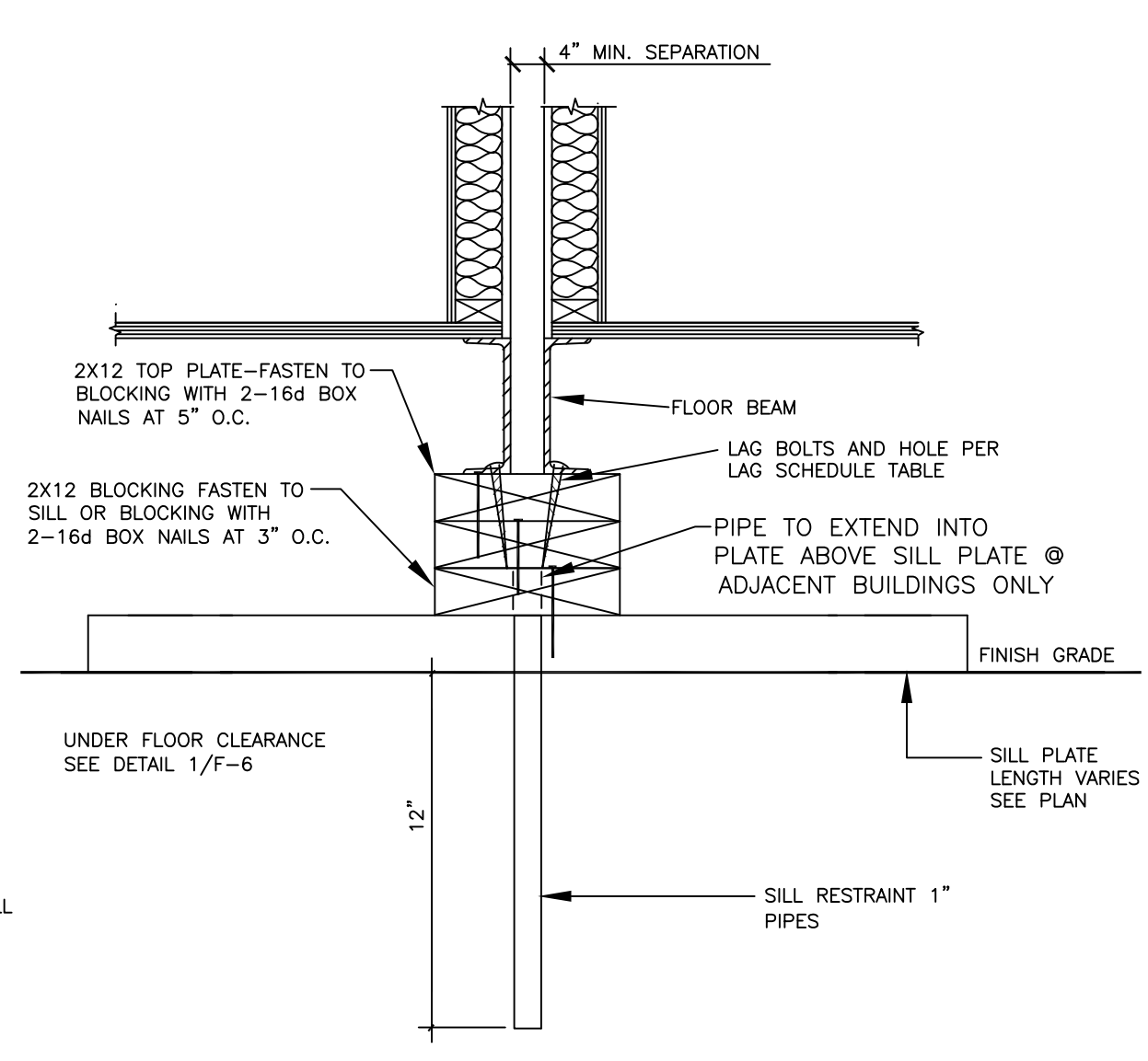


TABLE 1

NUMBER OF LAGS PER BUILDING AT ADJACENT BUILDING LINES

Building Size	50 PSF / 50 + 20 PSF / 100 PSF		125 PSF	
	NUMBER OF TIE PL'S PER ENDWALL	NUMBER OF TIE PL'S PER SIDEWALL	NUMBER OF TIE PL'S PER ENDWALL	NUMBER OF TIE PL'S PER SIDEWALL
24'x40'	4	6	6	9
36'x40'	6	9	9	13
48'x40'	8	12	12	17

TABLE 2

NUMBER OF LAGS PER BUILDING AT ADJACENT BUILDING LINES

Building Size	50 PSF		125 PSF	
	NUMBER OF TIE PL'S PER ENDWALL	NUMBER OF TIE PL'S PER SIDEWALL	NUMBER OF TIE PL'S PER ENDWALL	NUMBER OF TIE PL'S PER SIDEWALL
24'x40'	7	10	10	15
36'x40'	11	15	16	22
48'x40'	14	20	21	29

LAG SCHEDULE TABLES



SITE SPECIFIC APPROVAL	DSA PC STAMP	APPROVAL - PC ENGINEER OF RECORD	
	PRE-CHECK (PC) DOCUMENT CODE: 2019 CBC A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED		 4091 RIVERSIDE DRIVE, SUITE 114 CHINO, CALIFORNIA 91710
		Date Signed: September 24, 2020	

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Sheet No	Description	Dated	Revised	

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MOBILE MODULAR MANAGEMENT  
 11450 MISSION BLVD.  
 MIRA LOMA, CA 91752

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 APP: 04-119396 PC  
 REVIEWED FOR  
 SS  FLS  ACS  CG   
 DATE: 10/29/2020

PC 04-119396

ADJACENT BLDGS

DRAWN

CHECKED

DATE  
 AUG. 12, 2020

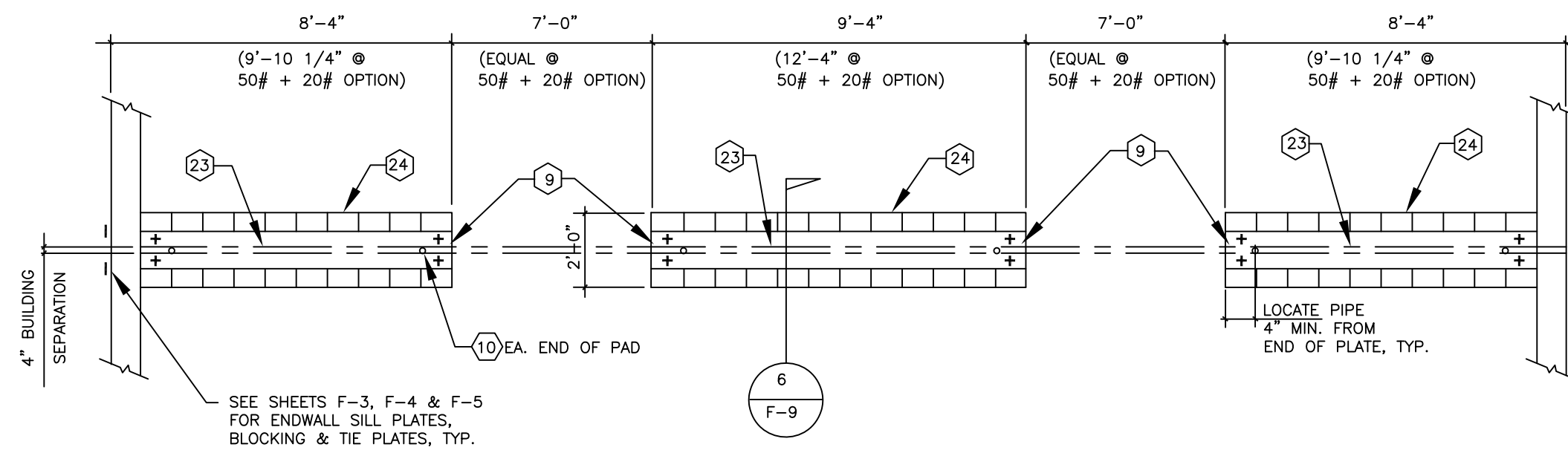
SCALE

JOB NO.

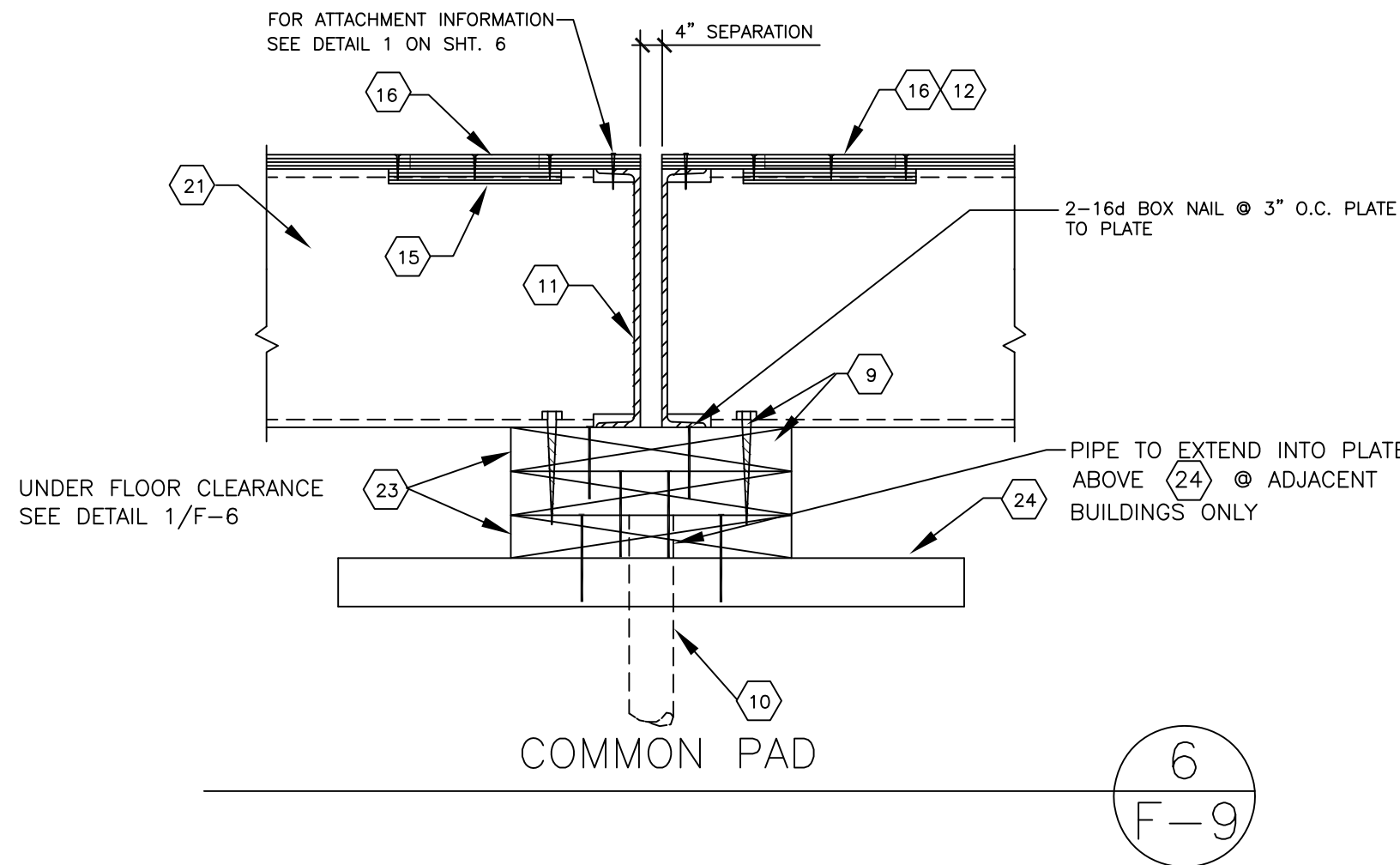
F - 8

OF 19 SHEETS





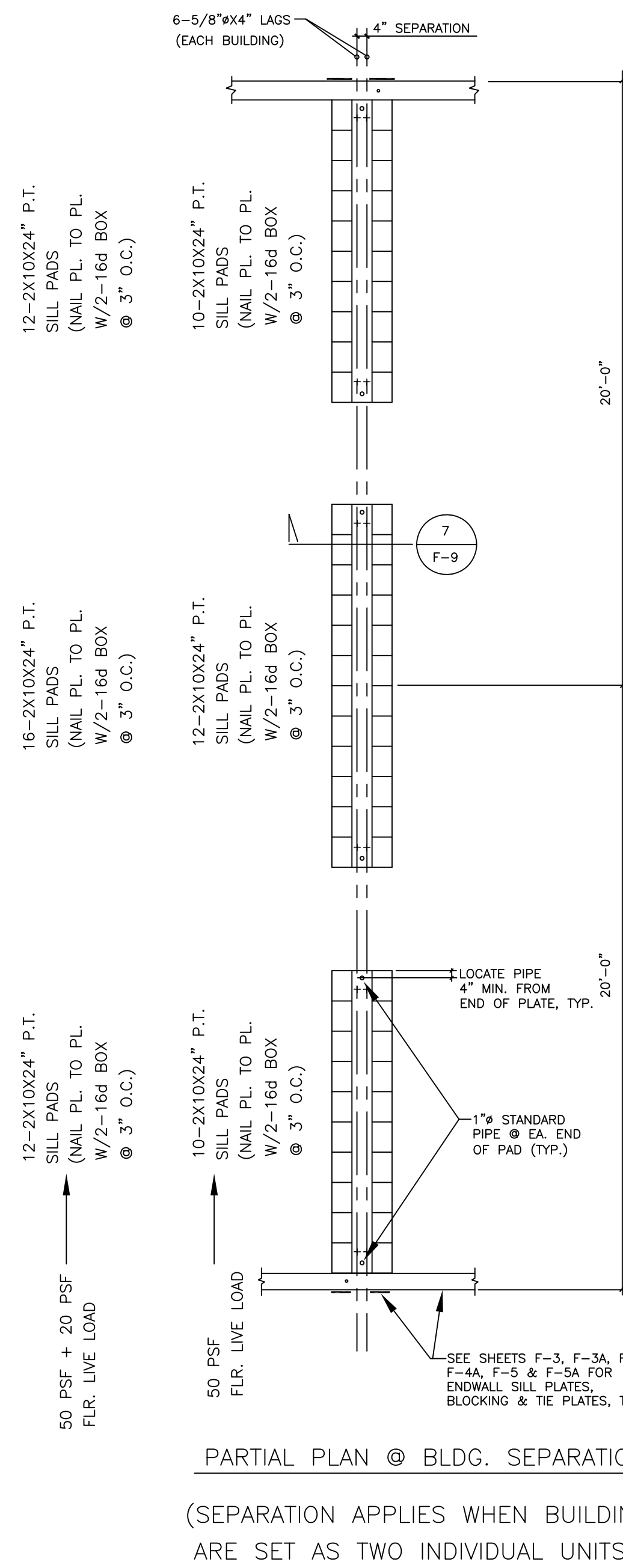
9. LAG BOLT AND HOLE PER LAG SCHEDULE TABLE #1 OR TABLE #2
10. DRIVE 1" STANDARD DIA. X 15" G.I. PIPE @ 10'-0" O.C. MAX. DRILL SILL PLATE 1-1/4" MAX. PIPE MAY BE DRIVEN AT MAX. 45 ANGLE TO VERTICAL
11. STEEL FLOOR CHANNEL
12. 5" DIA. ACCESS HOLE AT MODULE CONNECTION BOLT LOCATIONS.
15. PLYWOOD STRIP - 3/4" X 3" X 8" PIECE W/(2) #12X 2-1/4" FLAT HEAD WOOD SCREWS EACH END.
16. PLUG - 5" DIA. PIECE OF FLOOR SHEATHING W/(2) #12X 2-1/4" FLAT HEAD WOOD SCREWS EA. END.
21. FLOOR JOIST OR BLOCK BETWEEN FLOOR JOIST.
23. CONTINUOUS 2X12X(SEE PLAN). NAIL(2) 16d AT EACH END AND 3" O.C.
24. 2X10X24" LONG SILL PADS. P.T.H.F. (SEE PLAN FOR QUANTITY (10) AT ENDS & (12) AT INTERIOR) @ 50# FLOOR LOAD, PROVIDE 12 AT ENDS AND 16 AT INTERIOR @ 50# + 20# FLOOR LOAD OPTION)



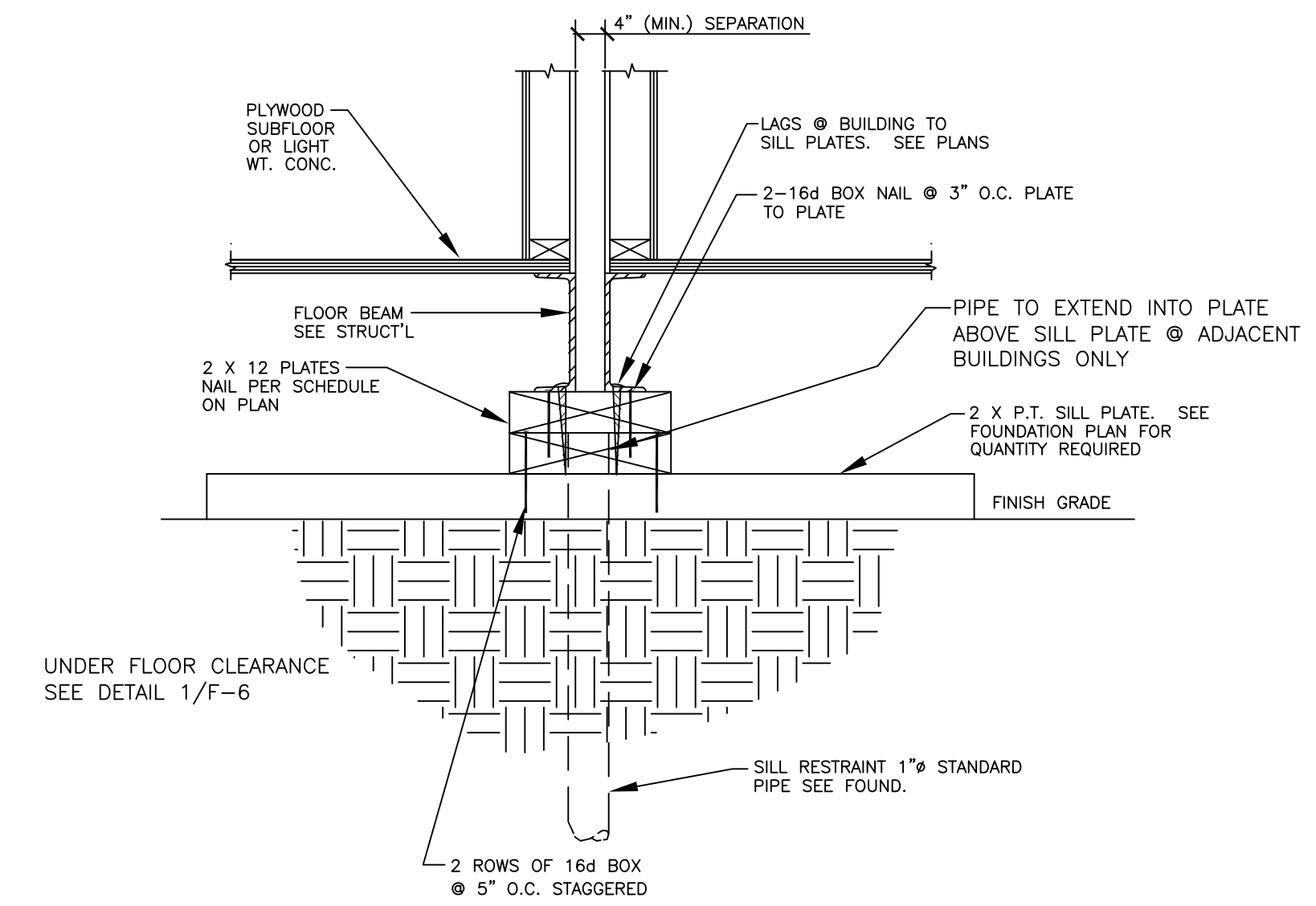
**AURORA MODULAR INDUSTRIES, INC. (AU)**  
ADJACENT BUILDING FOUNDATIONS

SEE SHEET F-2 FOR DSA APPLICATION NUMBERS.  
NOTE: ADJACENT BUILDING PLAN DETAILS ARE PER EXISTING APPROVED DSA STOCKPILE PLANS

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F-9



PARTIAL PLAN @ BLDG. SEPARATION  
(SEPARATION APPLIES WHEN BUILDINGS ARE SET AS TWO INDIVIDUAL UNITS)



4" BLDG. SEPARATION @ FTG.  
SILVER CREEK INDUSTRIES, INC. (SI)  
ADJACENT BUILDING FOUNDATIONS  
SEE SHEET F-2 FOR DSA APPLICATION NUMBERS.  
NOTE: ADJACENT BUILDING PLAN DETAILS ARE PER EXISTING APPROVED DSA STOCKPILE PLANS

7  
F-9

TABLE 1

Building Size	NUMBER OF LAGS PER BUILDING AT ADJACENT BUILDING LINES			
	50 PSF / 50 + 20 PSF / 100 PSF			
	NUMBER OF TIE PL'S PER ENDWALL	NUMBER OF TIE PL'S PER SIDEWALL	NUMBER OF TIE PL'S PER ENDWALL	NUMBER OF TIE PL'S PER SIDEWALL
	5/8" x 4"		1/2" x 3-1/2"	
	Ss= 2.183	Ss= 3.08	Ss= 2.183	Ss= 3.08
24'x40'	4	6	6	9
36'x40'	6	9	9	13
48'x40'	8	12	12	17

TABLE 2

Building Size	NUMBER OF LAGS PER BUILDING AT ADJACENT BUILDING LINES			
	125 PSF			
	NUMBER OF TIE PL'S PER ENDWALL	NUMBER OF TIE PL'S PER SIDEWALL	NUMBER OF TIE PL'S PER ENDWALL	NUMBER OF TIE PL'S PER SIDEWALL
	5/8" x 4"		1/2" x 3-1/2"	
	Ss= 2.183	Ss= 3.08	Ss= 2.183	Ss= 3.08
24'x40'	7	10	10	15
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**EXL STRUCTURAL ENGINEERS, INC.**  
4091 RIVERSIDE DRIVE, SUITE 114  
CHINO, CALIFORNIA 91710

MEMBER  
STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA  
AMERICAN CONCRETE INSTITUTE  
(909) 613-0234  
Fax(909) 613-0238

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