



**ADDENDUM #2
Public Works – Building Services
HMMF Expansion
BID # 7203-21**

February 26, 2021

The attached addendum supersedes the original Information and Specifications regarding BID # 7203-21 where it adds to, deletes from, clarifies or otherwise modifies. All other conditions and any previous addendums shall remain unchanged.

Please see the revised Bid Tab and Hazardous Storage Unit Specifications at the end of this document.

Please note: Due to COVID-19, BIDS will only be accepted electronically by emailing purchasing@bouldercounty.org.

1. Question: The drawings show Structural steel, will a pre-engineered metal building be allowed?

ANSWER: No, provide structural steel as indicated in the drawings.

2. Question: Is site badging required?

ANSWER: Yes, only for site supervisors/superintendent. A criminal history check will be required for access badging.

3. Question: Will a bid bond be required?

ANSWER: No.

4. Question: What tax rate is to be carried by the GC?

ANSWER: All City of Boulder tax information can be found here:

<https://bouldercolorado.gov/tax-license/sales-and-use-tax>

The form used by contractors for sales/use tax can be found here:

[https://www-static.bouldercolorado.gov/docs/Revised_2017_Prepaid_Tax_Estimate_for Projects not Requiring Permit-10.06.17-1-201710061121-1-201712010845.pdf?_ga=2.100232343.868647097.1613666254-117339279.1578430079](https://www-static.bouldercolorado.gov/docs/Revised_2017_Prepaid_Tax_Estimate_for_Projects_not_Requiring_Permit-10.06.17-1-201710061121-1-201712010845.pdf?_ga=2.100232343.868647097.1613666254-117339279.1578430079)

5. Question: Will there be limits on working hours?

ANSWER: No. We understand that off-hours work may be required due to occupied areas.

6. Question: Will the facility be occupied during construction?

ANSWER: Yes. However, if a certain amount of time is required for the facility to shut down operations for construction to continue a review/approval process of the schedule will be required.

7. Question: Please provide product information for GC relocated items.

ANSWER: We assume this is in reference to the hazardous storage units being relocated to the south of the facility. The name plate on the side lists Safety Storage as the manufacturer. See attached cut sheet for Model #24FS, a 2hr fire rated uni-directional unit similar to that found on their website: <https://www.safetystorage.com/2-hr-fire-rated-uni-directional/>

8. Question: Please provide landscape plans.

ANSWER: Landscape plans are not available. Provide two trees shown on civil plans, Golden Rain Tree (koelreuteria paniculate) or equal, 2" caliper, planted per City of Boulder Design & Construction Standards. For all disturbed grass areas (including utility trenches), reseed with native grass seed.

9. Question: Will there be a specification on products and sheens for paint for this project?

ANSWER: Product and sheen specification will be provided during construction.

10. Question: I am assuming that (E) on the finish schedule indicates existing, therefore not requiring primer. Is that correct?

ANSWER: (E) is existing and will not require primer.

11. Question: According to what I read, only 2 doors/HM frames are to be painted (100 & 102). Is that correct?

ANSWER: Yes.

12. Question: Is there to be any painting on the exterior? (Siding, windows, trim, bollards, etc.).

ANSWER: No, all are prefinished systems and bollards have sleeves applied.

13. Question: Will there be a required flame rating for storage/flammable areas?

ANSWER: No painting work should be done within the flammable storage area.

14. Question: Will there be a standard for VOC for paint?

ANSWER: All paint shall be low VOC (<50 g/L).

15. Question: Since much of this facility will not be painted, are there existing color standards that are to be met?

ANSWER: Colors will be specified during construction.

16. Question: Please confirm who is responsible for relocating the hazardous storage containers. Sheet C3.0 indicates this work is "by others".

ANSWER: It was clarified in the bid documents (page 8, last paragraph under note 3.6) that the contractor will be responsible for relocating and safe storage of the units during construction. Boulder County staff will be responsible for removal of any stored materials within the units prior to relocating.

17. Question: Is modification to the HVAC system throughout the facility be allowed to be completed during regular business hours with coordination between the building staff, or is off-hours work required?

ANSWER: Work can be coordinated during normal working hours with staff for HVAC over existing spaces.

18. Question: What is the current model number of the existing RTU on the roof for determining the requirements and pricing of the curb adapter need to set the new RTU unit?

ANSWER: AHU 1 is Aaon-RMA02.

19. Question: A control schematic for AHU-2 was provided on M3.1. This is listed as existing on the equipment schedule. Please clarify if any controls work is needed for this unit or if the schematic is for reference.

ANSWER: The unit is existing, and the controls changes are primarily removing controls associated with Bulking & Flammables 216 which are being reused with MUA-1.

20. Question: Sheet C1.0 has a note to "coordinate" relocation of gas line with Xcel. Please confirm that all costs associated with the removal and relocation of the gas line will be paid by Owner.

ANSWER: Boulder County Building Services will be responsible for paying the costs Xcel billed costs as it relates to the relocated gas line.

21. Question: Add alternate on page M1.1B keynote 14 is not on the project bid form. Please advise.

ANSWER: "Item #3: Add Alternate M1.1B, Keynote 14" has been added to the Bid Tab page; see attached revised Bid Tab.

22. Question: Sheet C1.0 near the center of the page, there is a note stating, "Replanted Landscaping RE: Landscaping plans". Please provide referenced landscaping plans.

ANSWER: See answer to question #8.

23. Question: Sheet C1.0 provides landscaping and irrigation notes, note 4 is referencing seeded areas. Please confirm the location of seeded areas and provide any applicable details and specifications.

ANSWER: Only existing grass areas disturbed during construction will require reseeding, using a native grass mix.

24. Question: Spec 1298300 part 2.1 states basis of design is DERO #302, please specify color as tan or medium gray.

ANSWER: Color will be specified during construction.

25. Question: The bid form requests a deductive alternate for the Owner to provide all low voltage, fire alarm, security, audio visual, and electrical scope. Please provide information regarding the security, audio visual, and low voltage/data work that is to be included in the base bid and then credited as a deductive alternate. The drawings only show rough ins for these scopes and there are no specifications.

ANSWER: The deductive alternate shall encompass all work shown on the electrical engineering sheets.

26. Question: Sheet A201 indicates a concrete pad is required for the new HVAC equipment and then references the MECH drawings. However, no details for the pad can be found.

ANSWER: Provide a level 8" concrete pad reinforced with #5 @ 16" each way.

27. Question: Please clarify the proposed routing, inverts, and cleanout locations for the proposed underdrains shown on A400. Does any existing underdrain piping need to be removed?

ANSWER: Remove approximately 22' of drain at the north addition, and approximately 26' of drain at the east addition. Provide new drain around the

three sides of each new addition, tying into the existing remaining drain. No invert information is available. Provide 2 new cleanouts (1 at each addition), locations to be coordinated in the field.

28. Question: Please provide specifications for the foundation waterproof membrane noted on sheet A400.

ANSWER: Provide BASF "MasterSeal 615" cold-applied dampproofing.

29. Question: The specifications indicate a required bond for the project but do not specify amounts. Please provide the bonding amount requirements.

ANSWER: Reference page 9 of the bid docs: Both a payment and a performance bond are required for this project and must each equal 100% of the proposed cost. Please include the cost of this bonding into the total proposed cost.

30. Question: Please indicate the minimum insurance requirements expected to be carried.

ANSWER: Refer to page 9 of the bid docs.

31. Question: Please confirm the expected start date of the project and if you have any duration expectations for the work.

ANSWER: Construction can start as soon as contract is in place with awarded contractor, anticipated to be late April/early May.

32. Question: There is an office trailer/building outside of the south gate that appears to be used as storage. Is it possible for the selected GC to use this as the onsite office trailer?

ANSWER: It's possible to use this trailer as the GC site office if the items stored in it are relocated to an accessible location near the HMMF.

33. Question: Is there an existing BAS system in place for this facility? If so what type of system is it?

ANSWER: Andover, Schneider Electric

34. Question: Are subcontractors required to provide/show surety bond, or will that be required only at the GC level?

ANSWER: Subcontractors are not required to provide surety bonds.

35. Question: Please confirm that relocation of the existing hazardous storage units is in the GC Scope. Please confirm that owner is responsible for emptying the storage units prior to relocation.

ANSWER: Confirmed. Refer to response to question 16.

36. Question: During the site walk, it was mentioned that Star was the original manufacturer of the existing metal building. Please confirm and provide contact information for the Star Rep/PM if possible.

ANSWER: Star is the original engineered building manufacturer. If needed, shop drawings can be provided upon request.

37. Question: Is landscaping (other than demo of existing trees on Civil drawing) a part of GC Scope? If so, can landscaping drawing set be provided?

ANSWER: See answer to question #8.

38. Question: Is there a list of any preferred subcontractors to the owner? Conversely, is there a list of unacceptable subcontractors to the owner?

ANSWER: No. However, a list of subcontractors may be requested during bid review.

39. Question: System notes reference Metal Bldg panel over rigid insulation and Z-girts for exterior wall. Please provide detail for this assembly. (only detail with Z-Girts is for Screen wall).

ANSWER: Perforated cold-formed Z-furring channels shall be installed at the spacing shown on the drawings, in line with the specified continuous insulation and fastened to the steel wall studs with TEK screws.

40. Question: In lieu of Z-girts (see question above, can 7/8" Hat Channel be attached horizontally with TEK screws to exterior framing, and then the metal panel siding be attached to the hat channel?

ANSWER: No, this would interrupt the continuous insulation, which is required to meet the energy code.

41. Question: What are the No Early Than and No Later Than start dates for actual construction?

ANSWER: Start dates for construction should be no earlier than mid-April 2021, no later than late-July 2021.

42. Question: Is the owner willing to waive the AISC certification requirement? Several steel companies that provide competitive pricing adhere to the AISC standards but are not certified.

ANSWER: AISC certification requirement can be waived, provided 3rd party Special Inspections for all shop fabrication is provided at no additional cost to the owner. AISC certified shops do not require additional 3rd party Special Inspections.

43. Question: Drawing E1.1B note 2 shows the relocation of a transformer. What size is this transformer? From what I can gather from the panel schedule it looks like it's around 50kva but could you please confirm?

ANSWER: The transformer is 45kVA; see online for additional info.

44. Question: Also the drawing doesn't show the existing location of this transformer (where it's moving from). I assume it's currently in storage room 215 in a similar location as the drawing shows in 217. Could you please confirm or provide location?

ANSWER: The transformer is existing just outside of Storage 215 on the southeast side.

45. Question: On the same drawing, in the southwest (plan southeast) corner of room 217 is a disconnect for the forklift charger that is also being relocated. Again I assume the existing location is in the same spot of 215. Could you please confirm or provide the existing location?

ANSWER: The charger is currently located on the southeast corner of Storage 215.

46. Question: On both Haz. stor. Units the same drawing shows control panels and weatherproof receptacle. I assume these are staying in same location relative to the units they are mounted on but are just moving since the units themselves are moving? Can you please confirm?

ANSWER: Correct.

47. Question: The control panel on Haz Stor Unit 1 shows a 2" conduit for SAP as well as a 2" conduit for FACP can you please confirm that the control panels on both units need 2-2" conduits relocated?

ANSWER: Notes based off existing drawings. It is acceptable to field verify and match existing conditions to extend to new location.

48. Question: Haz Stor Unit 1 shows 2 disconnects (Haz #1 and Haz #2)- can you please provide the size of conduit/ wire that is feeding these from the transformer? Also can you provide the location where the Haz #2 disconnect conduit connects to Haz Stor Unit 2?

ANSWER: Feeder & conduit sizes shown on online diagram on sheet E3.1. Approximate control panel location shown on Haz Storage Unit 2. Re: Question 46.

49. Question: Where are the new FA devices supposed to tie in? I presume the nearest existing SLC device for the pull stations and nearest NAC circuit for the horn strobes? If possible to get the location of these devices or direction as to where to tie these in it would be helpful.

ANSWER: This is a deferred submittal and will need to be field verified by the fire alarm contractor.

50. Question: What is controlling the lights in room 217? It calls for a wattstopper room controller as needed (Detail note 5 on E1.2) but doesn't show any occ sensors or switches to control this room controller.

ANSWER: Room 217 shall be on timeclock control. At lighting control device #1 provide LMZC-301 for timeclock functionality.

51. Question: The 200A Main Disconnect for the 75kVA transformer. From the site walk there is no place to physically place the Disconnect. What is the Engineers' guidance, or is that Disconnect even necessary?

ANSWER: There should be no new 75kVA transformer. Disconnect (Knife Switch or MCB) should be existing to meet NEC 240.21 requirements.

52. Question: It is indicated on the drawing that the electrical contractor is re-locating some receptacles/lights and re-using circuits, however I am not seeing any information about demo. Would this bid include demo work? If so, could we please get more information about what all would need to be demoed?

ANSWER: Most of the electrical work should be relocating and extending. Coordinate demo work with Architectural plans.

53. Question: Ref C0.2 There is a note "REPLACE LANDSCAPING RE: LANDSCAPING PLAN" - I can't find a landscaping plan.

ANSWER: See answer to question #8.

54. Question: Ref C0.2 There is a note "DEMO AND REROUTE ELECTRIC (RE: MEP" I can't find anything about site Elec on the electrical plans.

ANSWER: This needs to be confirmed that it is the existing feed for the storage units. If it is, the notes on the electrical plan describe relocating these circuits for the relocated storage units. If this is an Xcel line, it would need to be coordinated with the utility company.

55. Question: Will all materials be removed from the Haz. Matl. storage units before they are moved?

ANSWER: Yes.

56. Question: Where will the Haz. Matl. Storage units be placed while the concrete is replaced? How long can they be without electrical connections?

ANSWER: Storage units to be relocated by the GC to an area on site, reviewed/approved by the facility staff. If storage units must be relocated off

site for any reason, the awarded GC shall submit COR for approval of costs associated.

57. Question: Ref S102 Is any framing required for the skylight openings?

ANSWER: See 8/S511 for skylight framing requirements.

58. Question: Ref M2.1 MUA Auto Fill & Drain. How is this going to work with the MUA on a slab on the ground? Where does the 1/2" water come from?

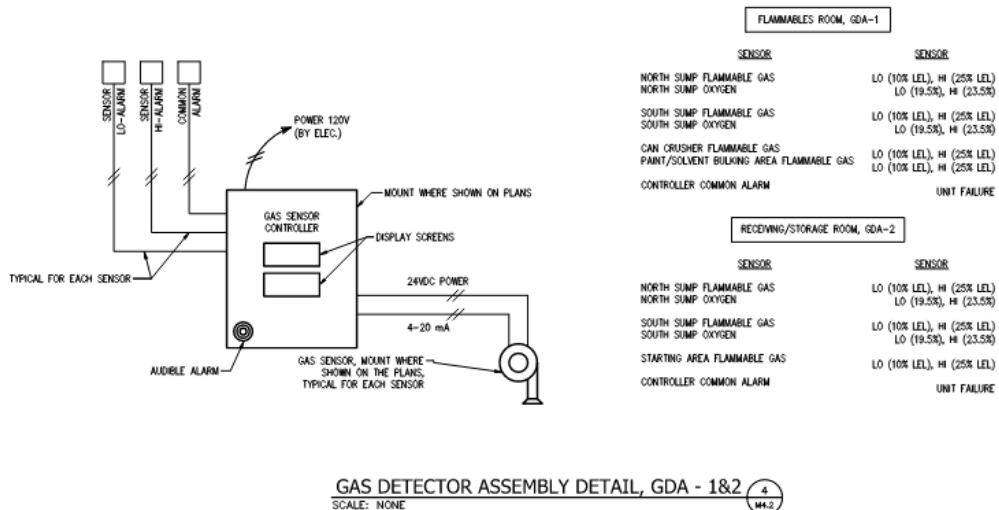
ANSWER: The existing drawing indicates an existing CW line feeding AHU-2. The drawings show connecting to this and extending over to the new MUA. The detail shown is for a roof mounted unit. The fill and drain valve would be located inside the building similar to the existing unit.

59. Question: Ref M2.1 How do you want to mount the 1 1/2" gas line to the metal roof? Would it be acceptable to mount the gas line on the exterior wall above the doors?

ANSWER: The gas line can either run on the roof, along the wall, or through the interior.

60. Question: Gas Detect Alarm Note 4 on M1.1A and note 8 on M1.18 call for the relocation of the Gas Detector Alarm Panels. Please provide wiring diagram.

ANSWER: See attached Gas Detector Diagram. The manufacturer has indicated that extending the sensor wires should be fairly straightforward, but the details should be coordinated with the manufacturer to verify their requirements.



61. Question: Ref 1/A301 There is a note indicating that the new metal panels will transition to a different color at the same elevation as the bottom of the existing Translucent Panels - please confirm this is to be done with different colored panels (not field painting).

ANSWER: Yes, these are different colored prefinished panels.

62. Question: Ref 1/A301 If applicable, please confirm upper panels, (PNT COLOR 2) will shingle over bottom panels (PNT COLOR 1) SIM to existing.

ANSWER: Yes, confirmed.

63. Question: Ref 1/A301 Please provide color specifics for PNT COLOR 1, and PAINT COLOR 2.

ANSWER: Colors will be provided during construction.

64. Question: Ref 8,11/A801 Please specify product to be used for "1/2" non-combustible cover board."

ANSWER: See specification section 061600.

65. Question: Will S5 Snow Retention be required over new entry doors, SIM to Existing.

ANSWER: Yes, provide over doors 102 and 103 (approximately 18 linear feet).

66. Question: Will there be site-specific safety requirements/procedures (above and beyond standard requirements) that the construction team will be required to follow? If so, please provide specifics.

ANSWER: No, follow standard safety procedures.

67. Question: Ref Spec 051200: 1.5.B Please confirm that the spec requirement for steel fabricators and erectors to be a part of an AISC Quality Certification Program can be waived.

ANSWER: See response to question #41 for shop required 3rd Party Special Inspection requirements if the fabricator does not have AISC Certification. Erector AISC Quality Certification may be waived because 3rd Party Special Inspection is required for all steel erection as indicated on sheet S002.

68. Question: Ref Spec 104416: 2.1.B/C There are two types of fire extinguishers listed (Dry chemical and wet chemical); please confirm the appropriate type of extinguisher to be used on the project.

ANSWER: Provide dry chemical ABC-type extinguishers.

69. Question: Please confirm that Owner is paying/has paid all permit fees for this project.

ANSWER: See page 6 note 3.3 of the Bid Specs.

70. Question: Please confirm that we are to pay for only City of Boulder use tax (no

state or county use tax).

ANSWER: See page 6 note 3.4 of the Bid Specs. This is the only tax we are aware of that needs to be paid and is to be factored into the bid cost. If any others come about during construction the contractor shall submit those costs with back-up documentation under COR for review/approval.

71. Question: Cold formed metal stud package appears to be a deferred submittal for this project. Please confirm and if so, do we owe structural engineered stamped shop drawings, and/or permit fees for deferred submittals as part of this project?

ANSWER: CFS metal stud package is a deferred submittal; engineered stamped shop drawings are required.

72. Question: Specs appear to require back boxes and conduit only for this project.

ANSWER: The GC's electrician to only provide and install all back boxes and conduit required for security/AV/low voltage/data work. The security/AV/low voltage/data conductors, terminations, devices, etc. will be by owner.

73. Question: 2.03 A. Wiring-computer system installer is indicated; does this project carry an owner-preferred vendor?

ANSWER: See answer to question #72.

74. Question: We didn't note any data cabling on this project, does this project call for any cabling wiring (low-voltage)?

ANSWER: New data shown on power plans (data receptacles). Lighting controls may require some LV wiring.

75. Question: How much do the existing storage trailers weigh?

ANSWER: Full storage unit specs are attached; see below specs on model 24FS:

Model	Outside Dimensions			Inside Dimensions			Tare Weight (Lbs.)	Door Openings		Designed Storage Capacity			Sump Capacity (Gallons)
	Length	Width	Height	Length	Width	Height		Height	Width	Weight (lbs.)	Sq. Ft.	Drums**	
32	33'3/4"	11'5 1/4"	8'8"	32'7 1/2"	10'8 1/4"	7'3 1/4"	23,325	6'7 3/8"	4'10 3/4"	87,125	348	80	1460
24	25'3/4"	11'5 1/4"	8'8"	24'7 1/2"	10'8 1/4"	7'3 1/4"	17,600	6'7 3/8"	4'10 3/4"	65,750	263	60	1100
22	23'3/4"	9'3/4"	8'8"	22'7 1/2"	8'9 1/4"	7'3 1/4"	16,750	6'7 3/8"	4'10 3/4"	49,500	198	50	830
15	15'11 3/4"	9'3/4"	8'8"	15'3 1/2"	8'9 1/4"	7'3 1/4"	8,775	6'7 3/8"	4'10 3/4"	33,500	134	33	560
7	8'7 3/4"	9'3/4"	8'8"	7'11 1/4"	8'9 1/4"	7'3 1/4"	5,250	6'7 3/8"	4'10 3/4"	17,375	69	16	290
10	10'11"	6'5"	8'4"	10'4"	5'9 1/4"	7'	2,600	6'9 1/2"	9'1"	14,875	59	14	220
32FS	33'3/4"	11'5 1/4"	8'8"	32'	10'	7'1"	35,300	6'7 3/8"	4'10 3/4"	80,000	320	80	1340
24FS	25'3/4"	11'5 1/4"	8'8"	24'	10'	7'1"	26,575	6'7 3/8"	4'10 3/4"	60,000	240	60	1000
22FS	23'3/4"	9'3/4"	8'8"	21'11 1/2"	8'1 1/4"	7'1"	24,025	6'7 3/8"	4'10 3/4"	44,500	178	44	750
15FS	15'11 3/4"	9'3/4"	8'8"	14'7 1/2"	8'1 1/4"	7'1"	13,975	6'7 3/8"	4'10 3/4"	29,625	118	28	500
7FS	8'7 3/4"	9'3/4"	8'8"	7'3 1/2"	8'1 1/4"	7'1"	8,125	6'7 3/8"	4'10 3/4"	14,760	59	12	250
10FS	10'11"	6'5"	8'4"	9'8"	5'1 1/4"	6'10"	8,000	6'7 3/8"	4'10 3/4"	11,000	44	8	160

76. Question: There are two different types of fire extinguishers called out in the

specs (wet chemical and multipurpose dry chemical). Please advise how many and what type of FE is required for this project.

ANSWER: See answer to question #68 for type of extinguisher. See A201 for locations. Relocate any existing extinguishers displaced by construction.

77. Question: An add-alt is listed in the mechanical drawings per detail note #14 – "PROVIDE ADD-ALTERNATE TO ROUTE 36"X20" OVER TO CONNECT NEW AND EXISTING 22"X12" STORAGE ROOM SUPPLY AIR DUCT FOR ZONE CONTROL. CAP EXISTING 22"X12" TAKE-OFF AND TIE IN TO 36'X20'." This add-alt is not listed on the bid sheet. Please confirm if we are to price this add-alt.

ANSWER: See answer to question #21.

78. Question: It appeared on the job walk that most/all of the building was sprinklered with a preaction system and galvanized pipe was used for the system. Specs (mechanical drawings) appear to call out schedule 40 black pipe for new system. Are we to install a wet or pre-action system? black or galvanized pipe? If pre-action is another zone/compressor/valve required or is it up to fire suppression contractor?

ANSWER: This should match the existing. Fire sprinkler contractor to determine if additional zone is required.

79. Question: Shall we carry an allowance for weather conditions for this project, or plan on requesting a change order if required because of weather event(s)?

ANSWER: Provide an allowance of 10 days for weather delays separate from base bid; see attached revised bid submittal form. Contractor to submit COR for review/approval for use of allowance.

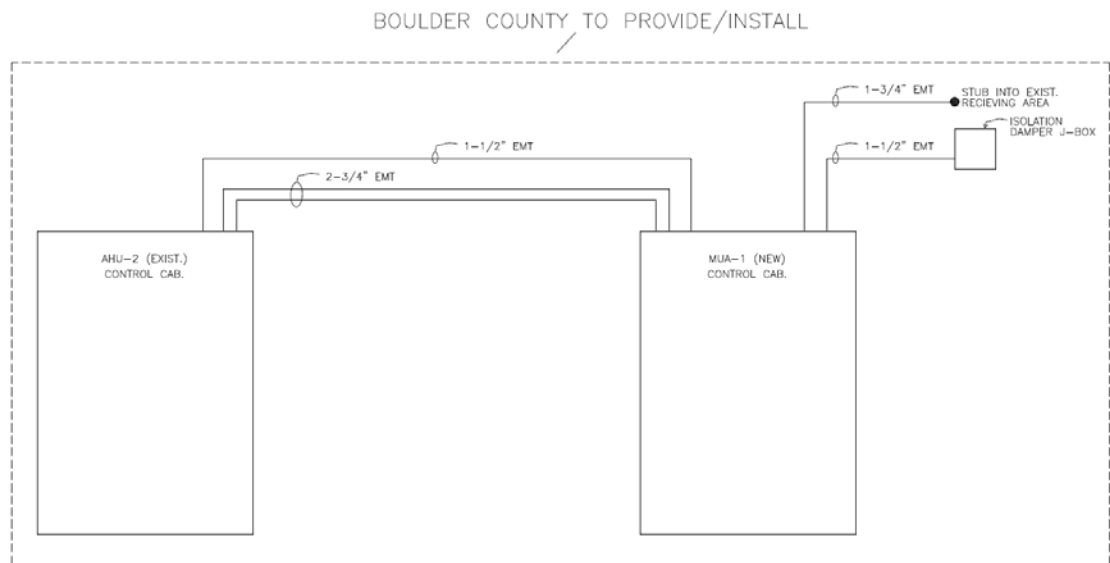
80. Question: HVAC Plans call for multiple potential HVAC Controls systems (Honeywell, Johnson Controls, or equipment manufacturer). It was briefly mentioned on the walk that Boulder County sometimes prefers Andover? Is there a required HVAC controls system for this project?

ANSWER: Boulder County will provide/install HVAC controls associated. Per M4.1, 1.12 Coordination, use the following for coordinating the controls work with Boulder County (BC) representative.

B. Electrical work performed by this contractor will conform to the standards of Division 26-28. Mechanical equipment motors and controls shall be furnished, set in place, and wired according with the following schedule unless otherwise noted or specified. MC = Division 21-23 EC = Division 26-28

Item	Furn By	Set By	Power Wiring	Control Wiring
Combination starters	BC	EC	EC	BC
Equipment motors	MC	MC	EC	--
Motor starters & O.L. relays	EC	EC	EC	BC
Disconnect switches	EC	EC	EC	--
Thermal overload heaters (1)	EC	EC	EC	--
Variable Speed Drives	BC	EC	EC	BC
Control relays/transformers	BC	BC	EC	BC
Temperature control panels	BC	BC	EC	BC
Temp. Controls conduit/wiring	BC	BC	--	BC
Actuator and solenoid wiring	BC	BC	--	BC
Pushbuttons & pilot lights	MC	MC	--	MC
Room thermostats	MC	MC	--	MC
Thermostats: line voltage	EC	EC	EC	--

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81. Question: Rubber base is called for room 201. is this just replacement of base as needed or remove and replace all rubber base in 201?

ANSWER: Replacement of base only where needed to transition to new expansion.

82. Question: Is there a required fire alarm contractor for building? Fire suppression contractor?

ANSWER: No.

83. Question: What is the anticipated start date?

ANSWER: Late April/early May.

84. Question: Is there an anticipated duration?

ANSWER: Approximately 6 months.

85. Question: Who has the existing HVAC controls in the existing building?

ANSWER: Boulder County Building Services typically installs/maintains Andover equipment.

86. Question: Walls – Are CMU only at Interior Between 215 and 216.....and between 216 and 214?

ANSWER: Yes, these are the only two (2) CMU walls in the project area.

87. Question: Are all Metal Panel walls to have the 12' of Plywood--to be painted?

ANSWER: Yes, for all storage area exterior walls; refer to architectural details.

88. Question: Is there a wall (wall type) between 215 and 211?

ANSWER: No.

89. Question: Is there a wall (wall Type) between 215 and 217?

ANSWER: No.

90. Question: Will any Bollards paint or do they all have plastic sleeves?

ANSWER: Plastic sleeves.

91. Question: Will any metal panels need to paint at exterior?

ANSWER: No, provide prefinished.

92. Question: Will any exterior steel (beside HM Doors and Frames) need to paint – (canopies/HVAC/ RTU Screens/Hazardous Storage Units/etc.)?

ANSWER: Coiling door head and jamb C-channels will get painted.

93. Question: Will any structural Rigid or PEMB (large Frames) need to paint at interior?

ANSWER: Any new exposed structural steel (walls/roof) will get painted.

94. Question: Will Perimeter wall at 211 need to paint or cut off in middle of wall due to painting perimeter walls at 215?

ANSWER: Room 211 should not be receiving any new paint.

95. Question: Will there be any other steel beams or columns or framing that will be painted?

ANSWER: See answer to question #93.

Submittal Instructions:

Submittals are due at the email box only, listed below, for time and date recording on or before **2:00 p.m. Mountain Time on March 5, 2021.**

Please note that email responses are limited to a maximum of 50MB capacity. NO ZIP FILES OR LINKS TO EXTERNAL SITES WILL BE ACCEPTED. Electronic Submittals must be received in the email box listed below. Submittals sent to any other box will NOT be forwarded or accepted. This email box is only accessed on the due date of your questions or proposals. Please use the Delivery Receipt option to verify receipt of your email. It is the sole responsibility of the proposer to ensure their documents are received before the deadline specified above. Boulder County does not accept responsibility under any circumstance for delayed or failed email or mailed submittals.

Email purchasing@bouldercounty.org; identified as **BID # 7203-21** in the subject line.

All proposals must be received and time and date recorded at the purchasing email by the above due date and time. Sole responsibility rests with the Offeror to see that their bid is received on time at the stated location(s). Any bid received after due date and time will be returned to the bidder. No exceptions will be made.

The Board of County Commissioners reserve the right to reject any and all bids, to waive any informalities or irregularities therein, and to accept the bid that, in the opinion of the Board, is in the best interest of the Board and of the County of Boulder, State of Colorado.



**RECEIPT OF LETTER
ACKNOWLEDGMENT**

February 26, 2021

Dear Vendor:

This is an acknowledgment of receipt of Addendum #2 for BID #7203-21, HMMF Expansion.

In an effort to keep you informed, we would appreciate your acknowledgment of receipt of the preceding addendum. Please sign this acknowledgment and email it back to purchasing@bouldercounty.org as soon as possible. If you have any questions, or problems with transmittal, please call us at 303-441-3525. This is also an acknowledgement that the vendor understands that **due to COVID-19, BIDS will only be accepted electronically by emailing purchasing@bouldercounty.org.**

Thank you for your cooperation in this matter. This information is time and date sensitive; an immediate response is requested.

Sincerely,

Boulder County Purchasing

Signed by: _____ **Date:** _____

Name of Company _____

End of Document



Boulder County Purchasing
1325 Pearl Street
Boulder, CO 80302
purchasing@bouldercounty.org

BID TAB

Provide a price for one and/or each item as listed below. Any alternates should be noted next to the Item below and any additional information shall be attached, following this page, reviewing the alternate pricing. Work shall be awarded based on the most responsible Bid that best satisfies the requirements of the project, not necessarily on the lowest price. Boulder County reserves the right to make the award on the basis of the Bid deemed most favorable to the County, to waive any informalities, or to reject any or all Bids.

ITEM #1: All work described in the Drawings, Specifications and Addenda for this project:

_____ dollars (\$ _____)

Duration _____ Working Days

ITEM #2: Electrical – Deduct for all Electrical work:

_____ dollars (\$ _____)

ITEM #3: Add Alternate, Reference M1.1B, Keynote 14:

_____ dollars (\$ _____)

ITEM #4: Allowance for 10 working days due to weather delays:

_____ dollars (\$ _____)

Alternates: Provide a separate page for any proposed alternates, with description of alternate and impact to cost or timing of work.

**Factory
Mutual
System**

Approved

Buildings and Secondary Containment Products for Chemicals and Hazardous Materials



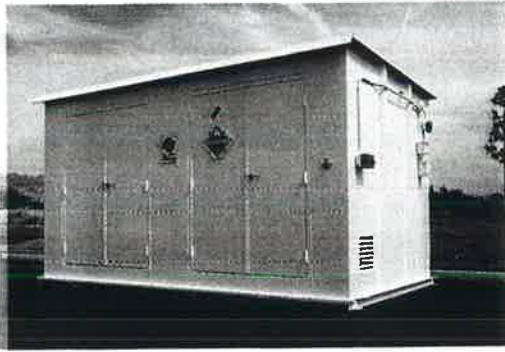
***Achieve Regulatory
Compliance for
Hazardous Material
Storage***

Your Sole Colorado Representatives
Melcher & Associates
3801 East Florida Ave., Suite #510
Denver, CO 80210
(303) 759-0032



**SAFETY
STORAGE™**

800-344-6539



Safety Storage™ prefabricated, weather-proof buildings offer a low cost solution to protect your facility from chemical hazards, provide secondary containment for soil and groundwater protection, minimize liability, meet fire safety needs, and safeguard personnel, while complying with federal, state, and local requirements.

These relocatable, turnkey buildings are available in a wide choice of building sizes and storage capacities, at a potential 60% savings over the cost of permanent structures. They are designed to Factory Mutual System standards and utilize UL listed components throughout.

Safety Storage buildings are designed to comply with all federal, state, and local regulations and can be pre-engineered to meet special structural, electrical, fire, and ventilation requirements.

Safety Storage is the nation's leading manufacturer of prefabricated chemical and hazardous material storage buildings. Custom engineering assistance and special application buildings are offered to meet specific requirements.

Steel and 2-Hour Fire-Rated Prefabricated Storage Buildings

FEATURES

Steel Buildings

- Walls and sump walls constructed of 10-gauge welded steel
- Roof/ceiling constructed of 12-gauge steel
- Double-doors

FireShield Buildings

- Two-hour fire-rated walls, roof/ceiling, and sump walls, in accordance with UL 263 and ASTM-E119 requirements.
- Air inlet vents equipped with 1½ hour UL Classified fire dampers
- UL Classified three-hour fire-rated double doors (60"x80") with UL listed frame and hardware. Active door equipped with automatic door closer, security lock, and interior safety release

All Buildings

- Chemical resistant coated surfaces
- Water sprinkler piping assembly
- Secondary containment sump, with fiberglass floor grating
- Open-channel construction for visual inspection and crane/forklift openings
- Security locks with inside safety release

- Static grounding system
- Forklift pockets for ease of relocation
- Hold-down brackets
- Hazard placards and labeling
- One-year limited warranty

OPTIONS

- UL listed interior and exterior lighting (Class I, Division 1)
- Heating and air conditioning systems (Class I, Division 1)
- Thermostatic control switches
- Electromechanical exhaust ventilation systems (Class I, Division 1)
- Liquid level detectors (Class I, Division 1)
- Dry chemical fire suppression system
- Interior separation wall(s), steel and 2-hour fire-rated
- Chemical resistant sump liner
- Explosion relief construction
- Safety eye/face wash units
- Sump overflow pipe fitting with cap
- Shelving
- Loading ramp(s)

Model	Outside Dimensions			Inside Dimensions			Tare Weight (Lbs.)	Door Openings		Designed Storage Capacity			Sump Capacity (Gallons)
	Length*	Width	Height	Length	Width	Height		Height	Width	Weight (lbs.)	Sq. Ft.	Drums**	
32	33'3¾"	11'5¼"	8'8"	32'7½"	10'8¼"	7'3¼"	23,325	6'7¾"	4'10¾"	87,125	348	80	1460
24	25'3¾"	11'5¼"	8'8"	24'7½"	10'8¼"	7'3¼"	17,600	6'7¾"	4'10¾"	65,750	263	60	1100
22	23'3¾"	9'3¾"	8'8"	22'7½"	8'9¼"	7'3¼"	16,750	6'7¾"	4'10¾"	49,500	198	50	830
15	15'11¼"	9'3¾"	8'8"	15'9½"	8'9¼"	7'3¼"	8,775	6'7¾"	4'10¾"	33,500	134	33	560
7	8'7¾"	9'3¾"	8'8"	7'11¼"	8'9¼"	7'3¼"	5,250	6'7¾"	4'10¾"	17,375	69	16	290
10	10'11"	6'5"	8'4"	10'4"	5'9¼"	7'	2,600	6'9½"	9'1"	14,875	59	14	220
32FS	33'3¾"	11'5¼"	8'8"	32'	10'	7'1"	35,300	6'7¾"	4'10¾"	80,000	320	80	1340
24FS	25'3¾"	11'5¼"	8'8"	24'	10'	7'1"	26,575	6'7¾"	4'10¾"	60,000	240	60	1000
22FS	23'3¾"	9'3¾"	8'8"	21'11½"	8'1¼"	7'1"	24,025	6'7¾"	4'10¾"	44,500	178	44	750
15FS	15'11¼"	9'3¾"	8'8"	14'7½"	8'1¼"	7'1"	13,975	6'7¾"	4'10¾"	29,625	118	28	500
7FS	8'7¾"	9'3¾"	8'8"	7'3½"	8'1¼"	7'1"	8,125	6'7¾"	4'10¾"	14,760	59	12	250
10FS	10'11"	6'5"	8'4"	9'8"	5'1¼"	6'10"	8,000	6'7¾"	4'10¾"	11,000	44	8	160

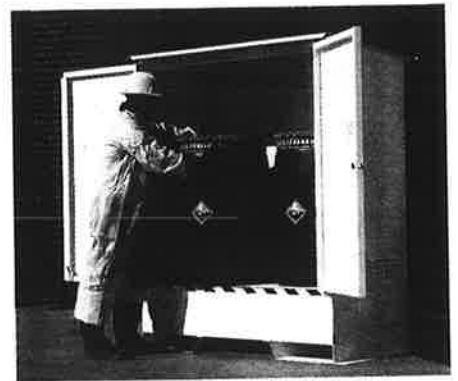
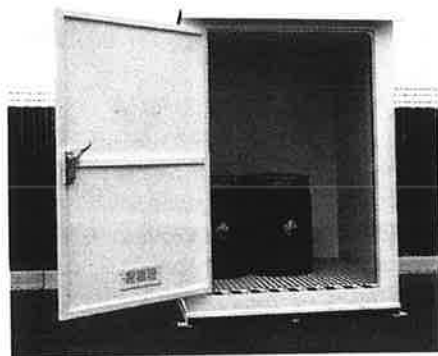
*Includes hold-down brackets. **55 gallon drums.

Chemical Storage Buildings and Lockers Models 6 and 2

Buildings for the storage of chemicals and other hazardous materials in smaller quantities. These buildings are in full compliance with federal, state, and local regulations.

FEATURES

- Constructed of ASTM-graded steel
- Secondary containment sump with fiberglass floor grating
- Chemical resistant coated surfaces
- Natural ventilation
- Security locks with interior safety release
- Static grounding system
- Forklift pockets for ease of relocation
- Hold-down brackets
- Hazard placards and labeling
- One-year limited warranty



OPTIONS

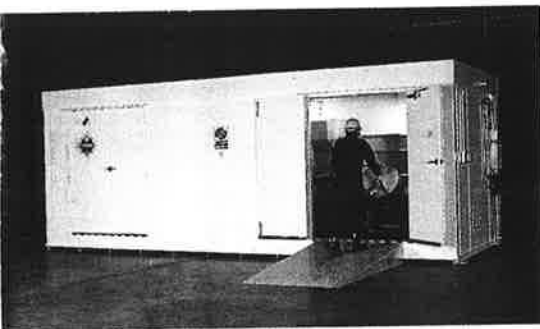
- Safety eye/wash unit
- Chemical resistant sump liner
- Interior/exterior lighting
- Electromechanical exhaust ventilation system (Model 6 only)

- Dry chemical fire suppression system (Model 6 only)
- Sump overflow fitting with cap
- Shelving

Model	Outside Dimensions			Inside Dimensions			Tare Weight (Lbs.)	Door Openings		Designed Storage Capacity			Sump Capacity (Gallons)
	Length*	Width	Height	Length	Width	Height		Height	Width	Wt. (lbs.)	Sq. Ft.	Drums**	
6	6'3¾"	6'7"	8'4"	5'8¼"	5'9¼"	7'	1,800	6'9"	4'6"	8,000	32	5	122
2	5'3"	2'10½"	6'	4'8"	2'5"	4'6"	650	4'5"	4'4"	2,800	11	2	86

*Includes hold-down brackets. **55 gallon drums.

4-Hour Fire-Rated Buildings for Flammable and Combustible Liquids and Hazardous Materials



Heavy-duty, relocatable Safety Storage™ buildings which comply with Underwriters Laboratories U435 (4-hour) fire-rating classification and meet applicable regulatory requirements for safe storage, handling, dispensing, and use of flammable and combustible liquids and hazardous materials.

The buildings, which are available in three standard sizes, may be located less than five feet from a structure or property line. They may even be placed inside your facility (subject to local authority having jurisdiction).

FEATURES

- Four-hour fire-rated walls, roof/ceiling, and sump walls constructed of gypsum encased in galvanized steel sheeting per UL Fire Resistance Rating Design No. U435
- Three-hour, UL Classified double doors with UL listed frame and hardware
- Air inlet vents equipped with 3-hour, UL Classified fire-rated dampers
- Secondary containment sump with fiberglass grating
- Chemical resistant coated surfaces
- Security locks with inside safety release
- Static grounding system
- Forklift pockets for ease of relocation

- Hold-down brackets
- Hazard placards and labeling
- One-year limited warranty

OPTIONS

- Heating, air conditioning, and electro-mechanical exhaust ventilation systems (Class I, Division 1)
- Interior/exterior lighting (Class I, Division 1)
- Dry chemical fire suppression system
- Liquid level detectors (Class I, Division 1)
- Emergency eye/face wash units
- Interior walls and shelving
- Loading ramps

Model	Outside Dimensions			Inside Dimensions			Tare Weight (Lbs.)	Door Openings		Designed Storage Capacity			Sump Capacity (Gallons)
	Length*	Width	Height	Length	Width	Height		Height	Width	Wt. (lbs.)	Sq. Ft.	Drums**	
44-4	33'6½"	9'2½"	8'9½"	21'11½"	8'	7'4"	31,125	6'7¾"	4'10¾"	44,000	176	44	750
30-4	16'3½"	9'2½"	8'9½"	14'7½"	8'	7'4"	21,725	6'7¾"	4'10¾"	29,625	118	28	500
14-4	8'10¾"	9'2½"	8'9½"	7'3"	8'	7'4"	12,300	6'7¾"	4'10¾"	14,750	59	12	250

*Includes hold-down brackets. **55 gallon drums.



Hazardous Liquid Spill Containment Sump

Safety Storage Spill Containment Sumps provide secondary containment storage for hazardous chemicals. The sumps are available in five standard sizes to accommodate up to eighty 55-gallon drums and have a spill

capacity of up to 1460 gallons. They may be used inside or outside with a minimum of site preparation.

FEATURES

- Constructed of continuously welded 10-gauge steel
- Chemical resistant coated surfaces
- Fiberglass floor grating
- Forklift pockets for ease of relocation
- Static grounding system

OPTIONS

- Sump overflow fitting with cap
- Chemical resistant sump liner

Model	Outside Dimensions			Storage Capacity Max.		Sump Capacity Gallons	Tare Weight (Lbs.)
	Length*	Width	Height	Sq. Ft.	Drums**		
32S	33'3½"	11'1¾"	11½"	371	80	1460	6140
24S	25'4½"	11'1¾"	11½"	283	60	1100	4610
22S	22'6½"	8'6½"	11¾"	177	40	770	3085
15S	15'6¼"	8'6½"	11¾"	121	28	520	2070
7S	7'9¼"	8'6½"	11¾"	59	12	250	1050

*Includes hold-down brackets. **55 gallon drums.

SAFE-T-PALLET™ Spill Containment Pallets

Steel

FEATURES

- Constructed of 10-gauge ASTM-A569 sheet steel and ASTM-A36 tubing
- Dimensions: 52"L x 52"W x 16½"H
- Storage capacity: four (4) 55-gallon drums (single level)
- Sump capacity: 127 gallons
- Fiberglass floor grating
- Chemical resistant coated surfaces
- Forklift pockets for ease of relocation

OPTIONS

- Chemical resistant sump liner
- Sump overflow fitting with cap
- Side rails and safety chains

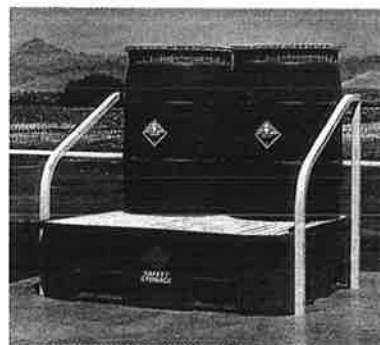
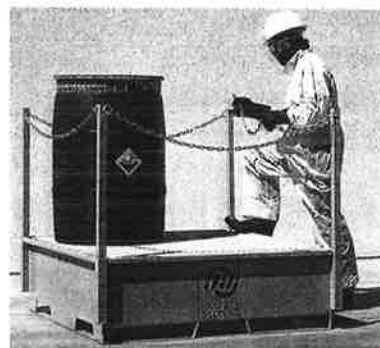
Molded Polyethylene

FEATURES

- Constructed of rotationally-molded, high-density, corrosion-resistant, cross-linked polyethylene
- Dimensions: 52"L x 52"W x 16½"H
- Storage capacity: four (4) 55-gallon drums (single level)
- Sump capacity: 90 gallons
- Fiberglass floor grating
- Forklift pockets for ease of relocation

OPTIONS

- Side rails and safety chains
- Steel floor grating



Since we cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used, we accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product for their own purposes. Unless otherwise agreed in writing, we sell the products without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products.

*Factory Mutual approval is pending on some products. Usage is subject to local authority having jurisdiction. UL classification not available on all models.



Your Sole Colorado Representatives

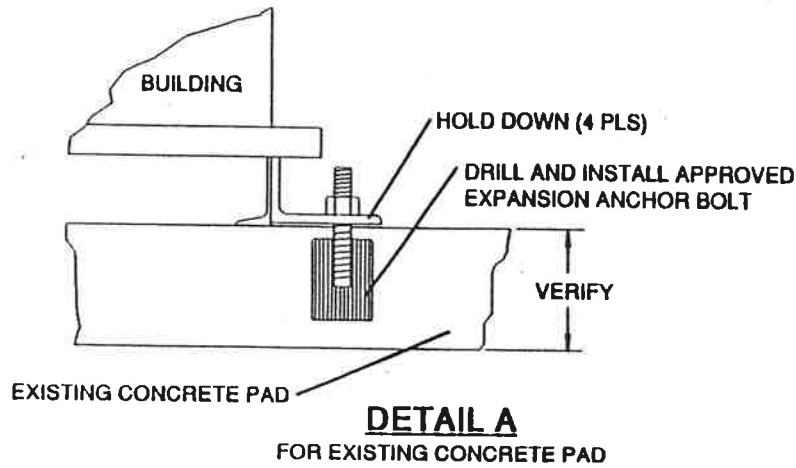
Melcher & Associates

3801 East Florida Ave., Suite #510

Denver, CO 80210

(303) 759-0032

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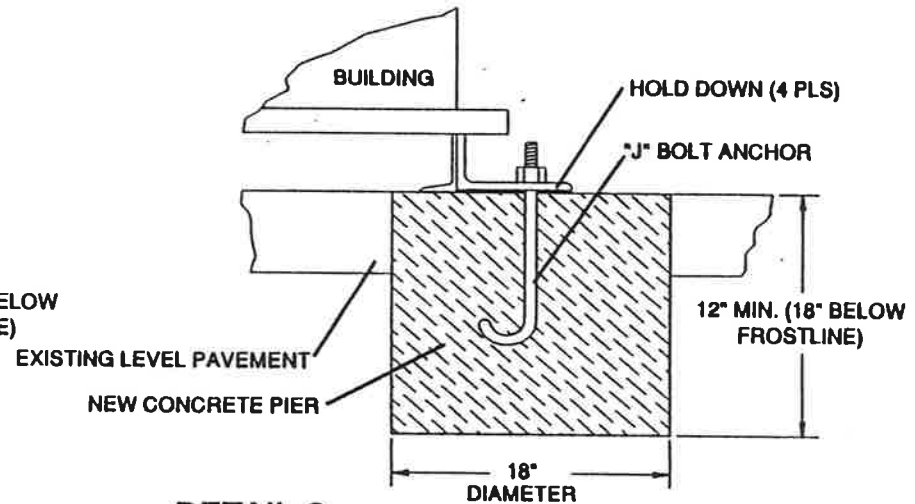
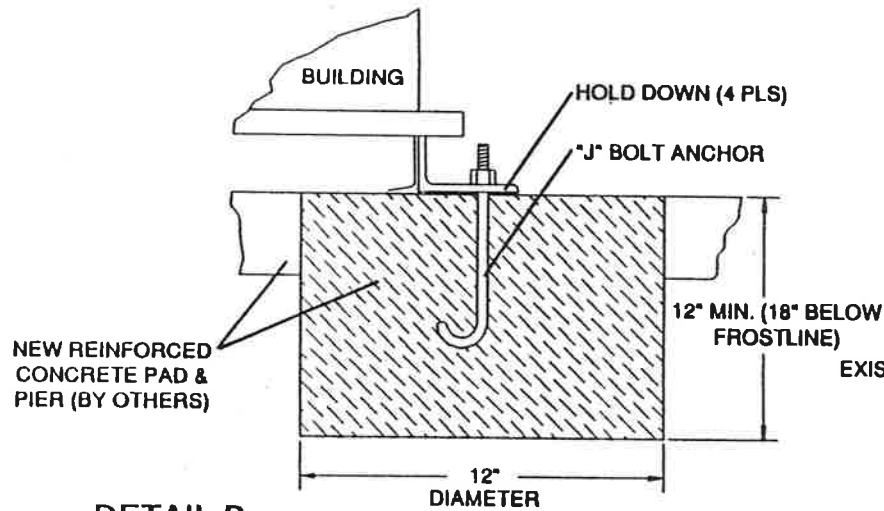


DETAIL B - NEW PAD & PIER: WHEN PRE-POURING THE PAD, LEAVE A 12" TO 18" CYLINDRICAL OPENING AT EACH HOLD DOWN LOCATION (LOCATIONS MAY BE FOUND ON "BUILDING WEIGHTS AND DIMENSIONS" TABLE). ANCHOR BOLTS CAN THEN BE CEMENTED INTO PLACE AFTER THE BUILDING IS SET IN PLACE.

DETAIL C - NEW PIER IN OTHER THAN EXISTING CONCRETE PAD:

- 1.) MARK HOLD DOWN LOCATION ON PAD.
- 2.) EXCAVATE FOUR HOLES A MINIMUM OF 18" DIAMETER BY 12" DEEP (OR 18" BELOW FROSTLINE).
- 3.) AFTER BUILDING IS SET ON LOCATION, FILL THE HOLES WITH CONCRETE AND MUD-SET "J" ANCHOR BOLTS. TIGHTEN AFTER CURING.

DETAIL A - EXISTING CONCRETE PAD: SSI RECOMMENDS FOLLOWING INSTRUCTIONS FOR EXAMPLE "C". WHERE NOT FEASIBLE, DRILL AND INSTALL EXPANSION ANCHOR BOLTS AS ILLUSTRATED.



ANCHOR BOLT & FOUNDATION DETAILS

APPROVED ANCHOR BOLTS - 1 EACH CORNER						
	Per ICBO No. 2158, 1-1/2" Kwik-Bolt, 5" Embed 3/4" Diam. * X *		Per ICBO No. 2391, Tribolt by Rammed, 3/4" D. * X 3-3/8" Embed		Per ICBO No. 2158, 1-1/2" Kwik-Bolt, 6-1/2" Embed 1" Diam. * X *	
	Per ICBO No. 2391, Tribolt by Rammed, 1" Diam. * X 6" Embed		1/2" Diam. * X 10" Embed Nut-Seal * Bolt			
FOUNDATION/SLAB TYPE	W/ SPECIAL INSPECTION		W/O SPECIAL INSPECTION			
New Reinforced Concrete Pad	■	■	■	■	■	
4" Existing Reinforced Concrete		■				
5" Existing Reinforced Concrete	■	■				
6" & Over Existing Concrete	■	■	■	■		
For AC, Asphalt or Other Existing Pavement	See Foundation Detail "C" (next page)				■	

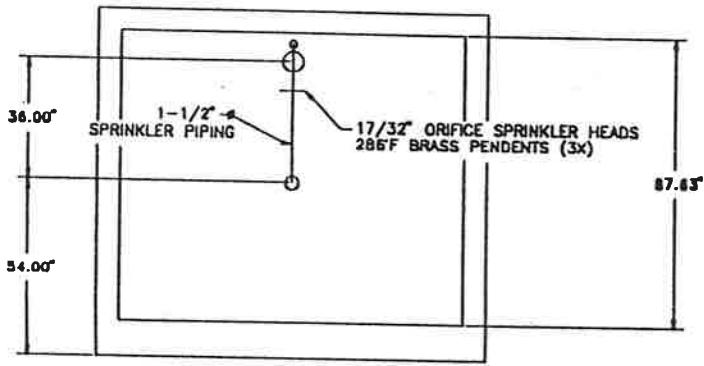


CAUTIONS

Be sure foundation pad is level. A 1 degree change in elevation along the length of a model 22 can reduce effective spill containment capacity by 16 gallons and cause the liquid level alarm to be prematurely activated. It can also affect operation of doors.

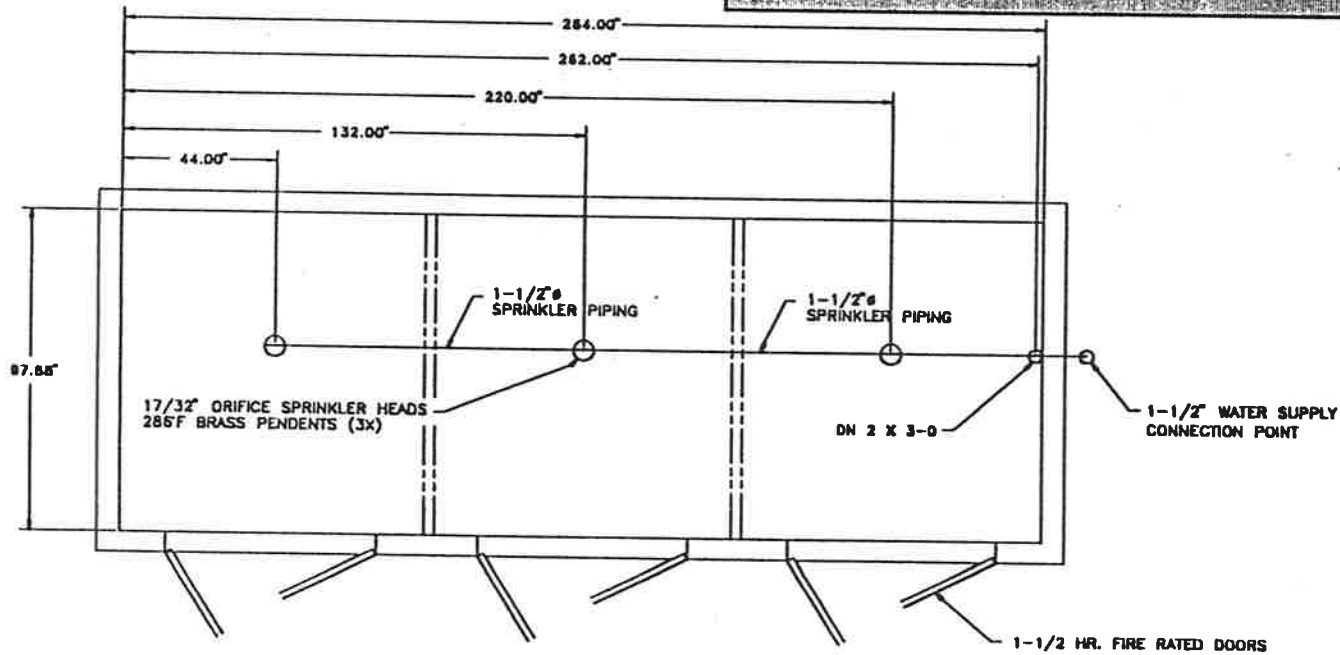
Fill voids in slab foundation.

Details are shown for installations which comply with the rated environmental exposure outlined in the "Design Loads" section. In cases where exposure exceeds the ratings, the customer is responsible for contracting a licensed engineer to design adequate structural details for that installation.

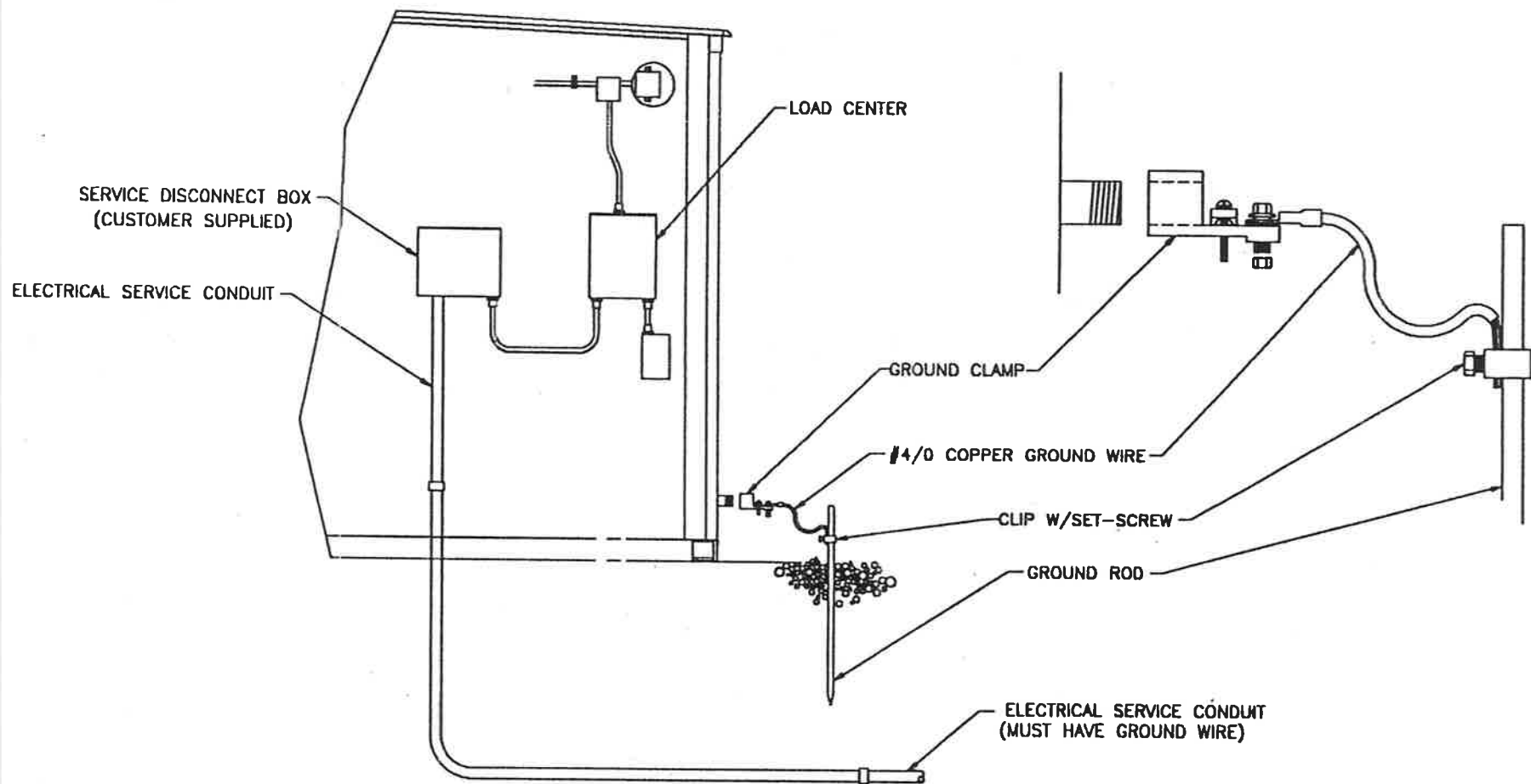


GENERAL INFORMATION

- 1.) FIRE SPRINKLER PIPING ASSEMBLY SHOULD BE CONNECTED TO A RELIABLE WATER SUPPLY CAPABLE OF FURNISHING 120 GPM @37 PSI AT THE 1-1/2" WATER SUPPLY CONNECTION POINT. WATER SUPPLY PRESSURE SHOULD NOT EXCEED 175 PSI.
- 2.) SUPPLY PIPING SIZE, MATERIALS & ARRANGEMENTS SHOULD BE APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- 3.) WATER FLOW AND VALVE SENSORY DEVICES ARE NOT INSTALLED. THEY CAN BE PROVIDED BY YOUR LOCAL LICENSED FIRE PROTECTION ENGINEER CONTRACTOR.
- 4.) THIS SPRINKLER PIPING ASSEMBLY HAS BEEN ENGINEERED FOR SAFETY STORAGE MODELS 7, 15, 22, 14, 30 & 44 AND SHALL NOT BE USED ON ANY OTHER BUILDINGS.



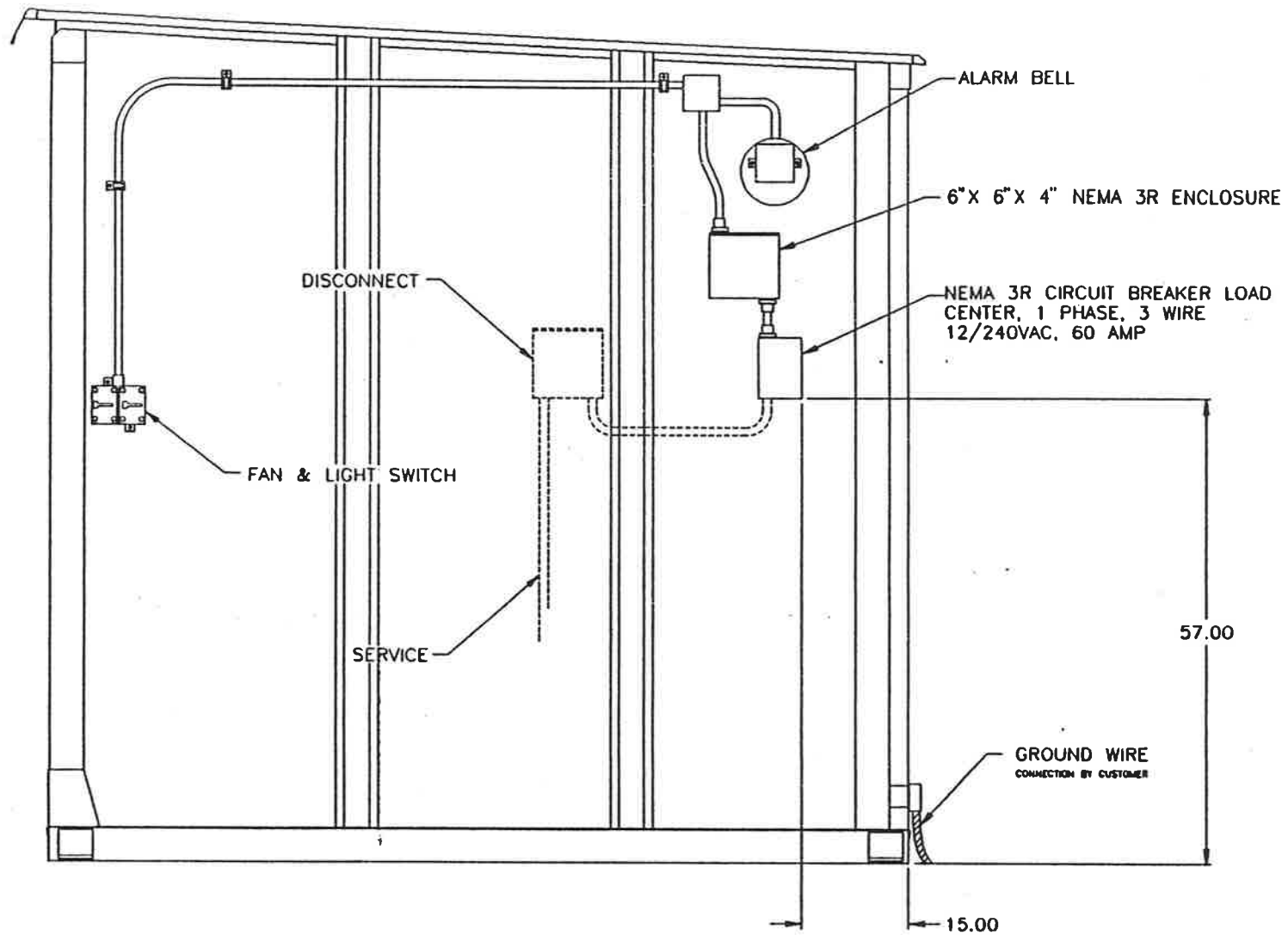
FIRE SPRINKLER PIPING ASSEMBLY



GROUNDING OF BUILDING
 (SUPPLIED BY CUSTOMER)

WARNING: GROUNDING ROD AND CABLE MUST BE INSTALLED AS SHOWN, OR PER THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. IMPROPER INSTALLATION MAY ALLOW STATIC BUILD-UP IN THE BUILDING WHICH MAY RESULT IN EXPLOSION.

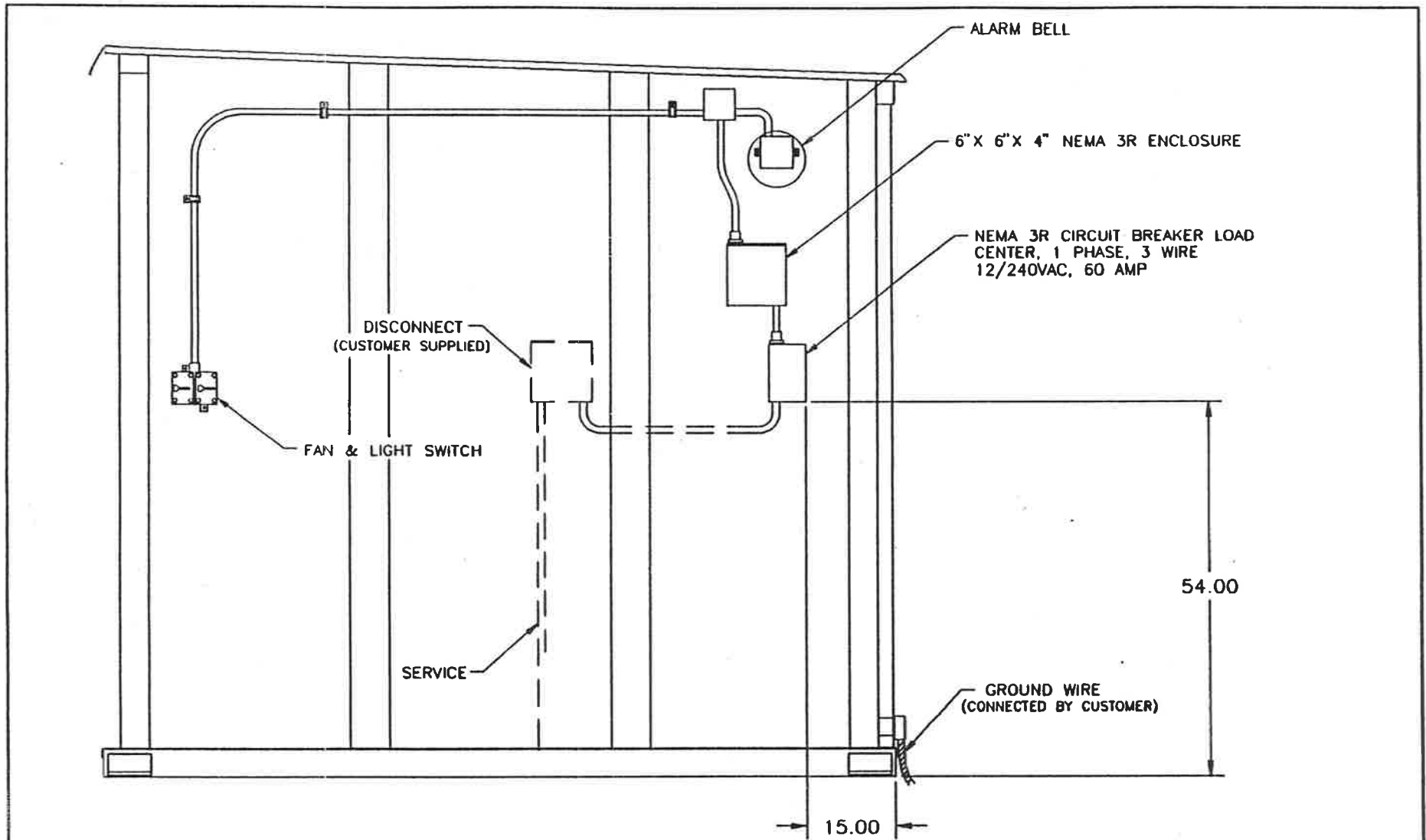
WARNING: BARRELS MUST BE INDIVIDUALLY GROUNDED TO THE GROUNDING LUGS INSIDE THE BUILDING.



ENDWALL DIAGRAM-STANDARD STEEL BUILDING

(LOCATION OF FEEDER LINES AND POWER PANEL MAY CHANGE BASED ON ACTUAL CUSTOMER ORDER.)

WARNING: ONLY QUALIFIED ELECTRICIANS ARE TO BE USED FOR ROUGH AND FINISH ELECTRICAL INSTALLATION. FACTORY SUPPLIES ELECTRICAL PANEL PRE-WIRED FOR ALL SYSTEMS AND SPECIFIES ELECTRICAL REQUIREMENTS FOR EACH CONNECTION. FIELD WIRING SHALL COMPLY WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.



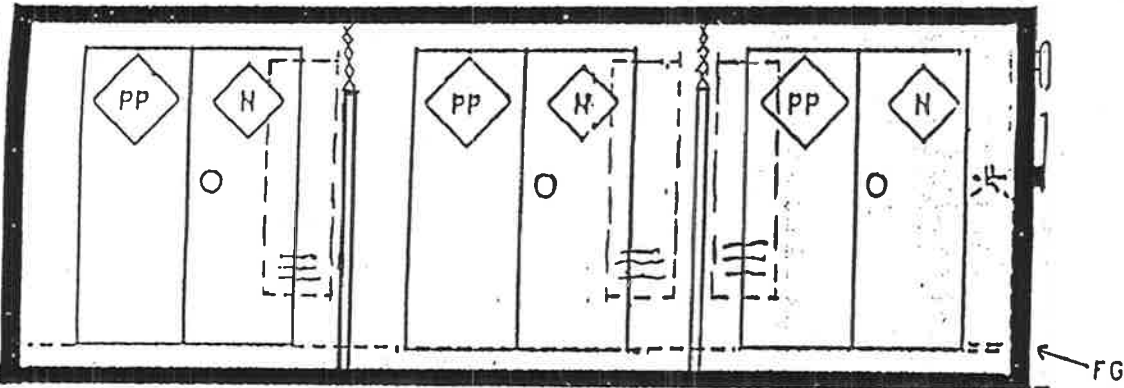
ENDWALL DIAGRAM-STANDARD FS/STEEL BUILDING

(LOCATION OF FEEDER LINES AND POWER PANEL MAY CHANGE BASED ON ACTUAL CUSTOMER ORDER.)

WARNING: ONLY QUALIFIED ELECTRICIANS ARE TO BE USED FOR ROUGH AND FINISH ELECTRICAL INSTALLATION. FACTORY SUPPLIES ELECTRICAL PANEL PRE-WIRED FOR ALL SYSTEMS AND SPECIFIES ELECTRICAL REQUIREMENTS FOR EACH CONNECTION. FIELD WIRING SHALL COMPLY WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

FIGURE 3

BUILDING ONE

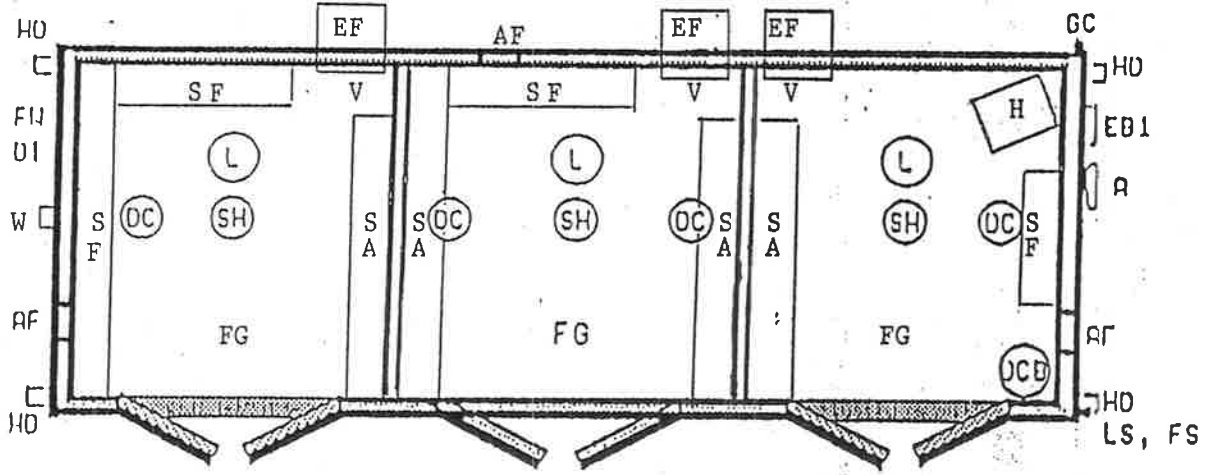


FRONT ELEVATION

- LEGEND**
- A: ALARM FOR DRY CHEMICAL
 - AF: AIR INLET VENT WITH 1.5 HOUR FIRE DAMPER
 - DC: DRY CHEMICAL NOZZLE
 - DCB: ANSUL DRY CHEMICAL BOTTLE
 - DI: DOUBLE-WALL CONSTRUCTION AND R-11 INSULATION
 - EB1: EB FOR TEMP CONTROL
 - EF: EXHAUST FAN (12')
 - FO: FIBERGLASS FLOOR GRATING
 - FS: FAN SWITCH
 - FW: TWO HOUR FIRE WALL
 - GC: GROUNDING CONNECTION
 - H: HEATER
 - HD: HOLD-DOWN BRACKET
 - L: EXPLOSION PROOF LIGHT
 - LS: LIGHT SWITCH
 - N: NFPA 704M RATING SIGN
 - PP: PERMANENT D.O.T. PLACARD
 - SH: WATER SPRINKLER SPRAY HEAD
 - T: THERMOSTAT
 - V: VENT
 - W: WATER SPRINKLER HOOKUP

Note: Metal Partition Walls to approximately 60" above the Floor Grating, Expanded Metal from the Top of Partition to Ceiling

SF: Fixed Shelving
 SA: Adjustable Shelving
 SHELF SPACING FROM FLOOR: FIXED - 18", 18", 16", 16"
 ADJUSTABLE - 16", 16", 12", 12"



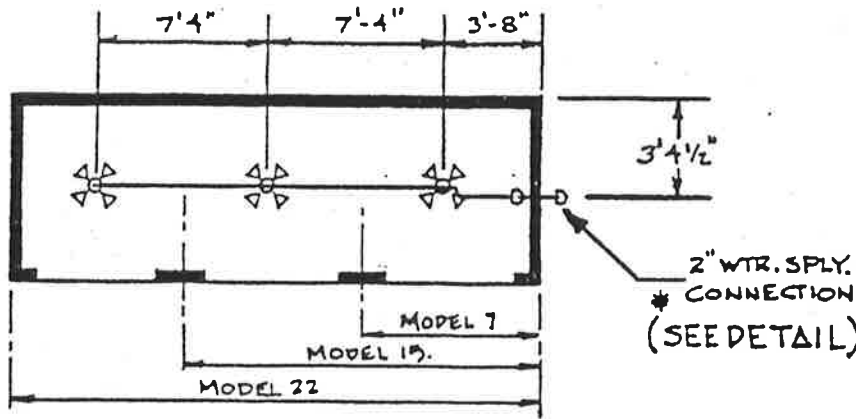
PLAN VIEW

SAFETY STORAGE, INC.

JOB #: _____
 COMPANY: BOULDER/LAIDLAW
 ADDRESS: P.O. BOX 210799
COLUMBIA, SC 29221
 CONTACT: MR. LARRY GANT

PHONE: 800/845-1019
 ACCEPTED FOR PRODUCTION:
 X _____

BUILDING ONE
 CUSTOM
MODEL 24FS



BUILDING AS FACTORY PLUMBED

— PLAN VIEW —

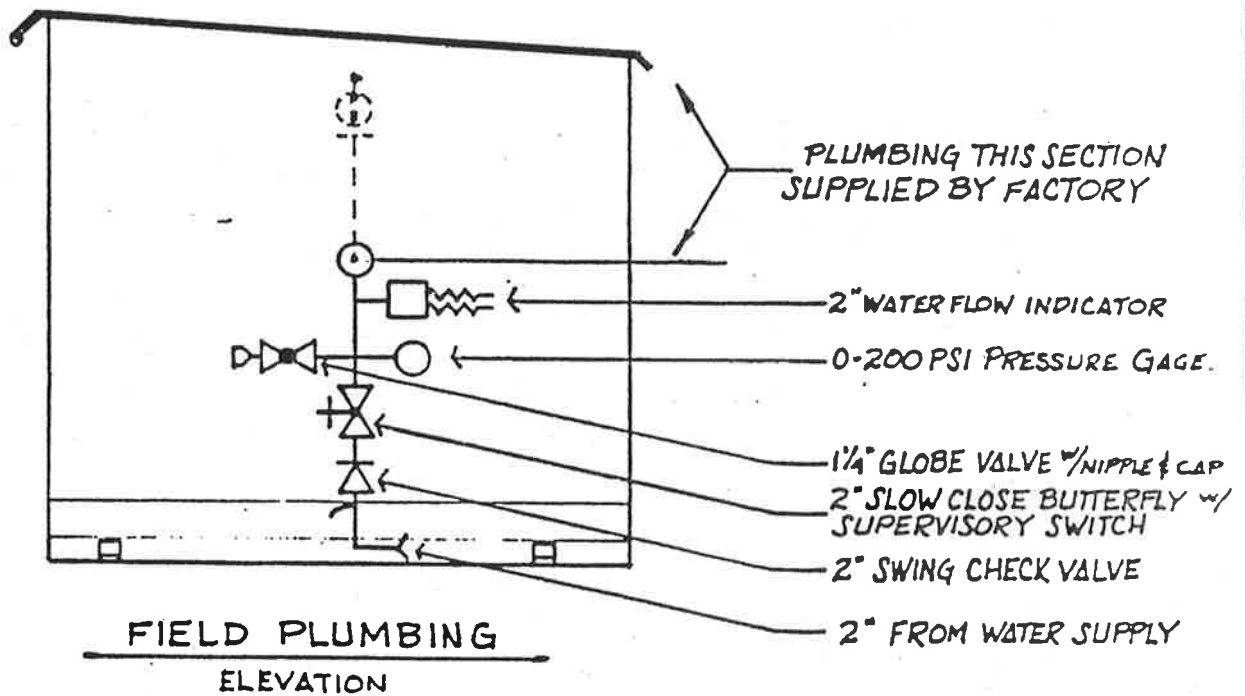
SAFETY STORAGE



18900 Stevens Creek Blvd.
Cupertino, CA 95014

FIELD INSTALLATION, OPERATION AND MAINTENANCE MANUAL

TITLE: **SPRINKLER SYSTEM FIELD PLUMBING**



FIELD PLUMBING
ELEVATION

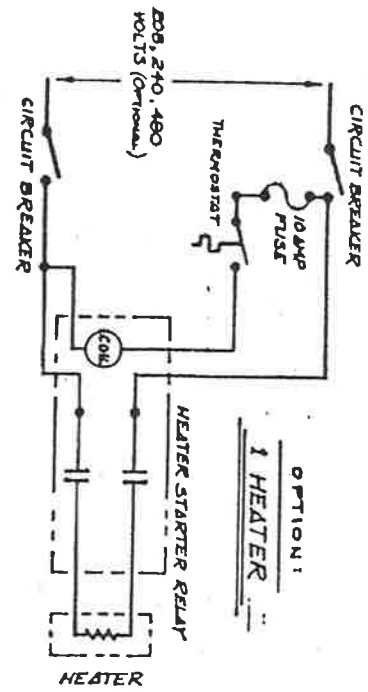
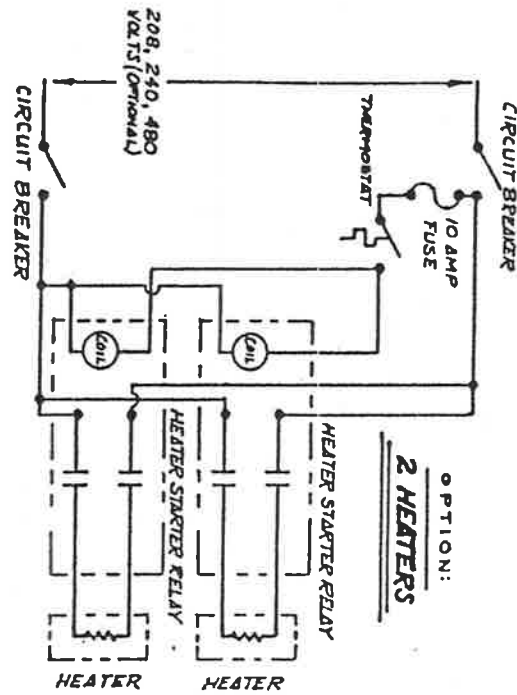
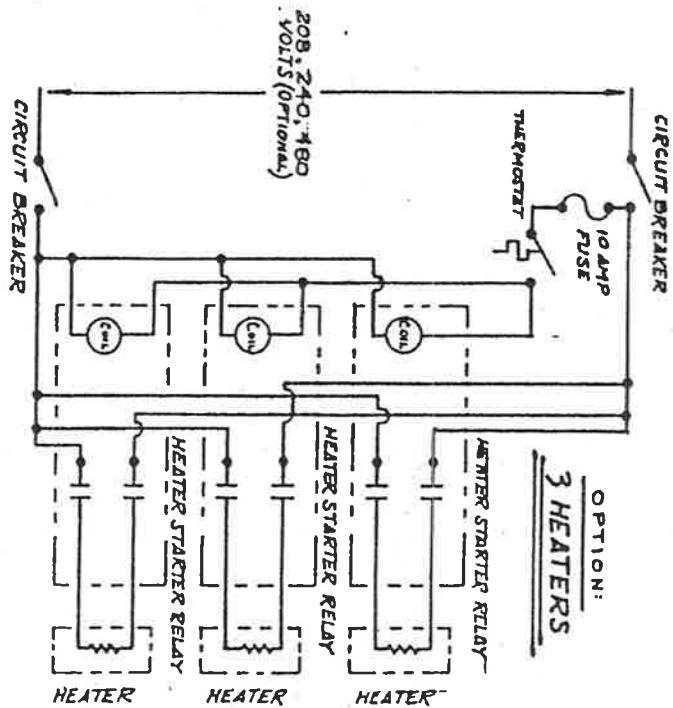
GENERAL INFORMATION

FIRE SPRINKLER SYSTEM SHALL BE CONNECTED TO A RELIABLE WATER SUPPLY CAPABLE OF FURNISHING 120 GPM @ 37 PSI AT THE 2" WATER SUPPLY CONNECTION POINT. SUPPLY PIPING SIZE, MATERIALS AND ARRANGEMENT SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION.

WATER FLOW AND VALVE SENSORY DEVICES ON THE SPRINKLER SYSTEM AND AN ALARM SWITCH ON THE DRY CHEMICAL SYSTEM (IF INSTALLED) HAVE BEEN PROVIDED FOR CONNECTION TO AN ALARM SYSTEM IF REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

WARNING

THE DESIGN AND RECOMMENDATIONS FOR SPRINKLER SYSTEM HOOK-UP FOR THE MODEL 7, 15, AND 22 SAFETY STORAGE BUILDINGS HAVE BEEN ENGINEERED FOR THOSE BUILDINGS ONLY, AND SHALL NOT BE USED ON ANY OTHER SYSTEM OR BUILDINGS. ALL HOOK-UP SHALL COMPLY WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.



SYSTEM SCHEMATICS - HEATER OPTION

CAUTION

THE 208, 240, AND 480 VOLTS (OPTIONAL) SHOWN IN THE HEATING SCHEMATICS ARE INTENDED TO SERVE AS A GUIDE FOR THE LOCAL ELECTRICIAN TO TAP PHASES OR OTHER AVAILABLE POWER TO ACHIEVE REQUIRED POWER FOR HEATERS. ACTUAL WIRING DETAILS ARE TO BE DETERMINED ON SITE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

NOTE

WIRING REQUIREMENTS FOR TEMPERATURE CONTROLLED BUILDING AIR CONDITIONING SYSTEMS ARE DELIVERED TO THE BUILDING SITE ONLY WHEN THAT SYSTEM IS ORDERED AS AN OPTION.



**SAFETY
STORAGE**

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Cupertino, CA 95014

FIELD INSTALLATION, OPERATION
AND MAINTENANCE MANUAL

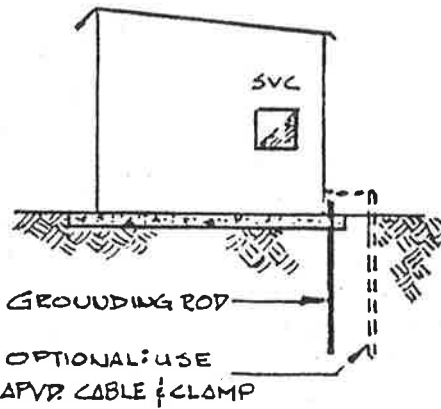
TITLE:

*ELECTRICAL DETAIL
(OPTIONS)*

ELECTRICAL SERVICE CONNECT
 5/8" x 8' GROUNDING ROD
 OPTIONAL ROD
 LOCATION W/ CABLE



ELECTRICAL
 PLAN VIEW



GROUNDING ROD
 OPTIONAL USE
 APVD. CABLE & CLAMP

END ELEVATION-ELECTRICAL



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 Cupertino, CA 95014

FIELD INSTALLATION, OPERATION
 AND MAINTENANCE MANUAL

TITLE:

ELECTRICAL DETAIL

WARNING

ONLY QUALIFIED ELECTRICIANS ARE TO BE USED FOR ROUGH AND FINISH ELECTRICAL INSTALLATION. FACTORY SUPPLIES ELECTRICAL PANEL PRE-WIRED FOR ALL SYSTEMS AND SPECIFIES ELECTRICAL REQUIREMENTS FOR EACH CONNECTION. FIELD WIRING SHALL COMPLY WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

WARNING

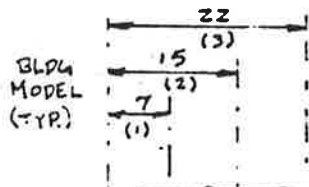
GROUNDING ROD AND CABLE MUST BE INSTALLED AS SHOWN, OR AS PER THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. IMPROPER INSTALLATION MAY ALLOW STATIC BUILD-UP IN THE BUILDING WHICH MAY RESULT IN EXPLOSION.

CAUTION

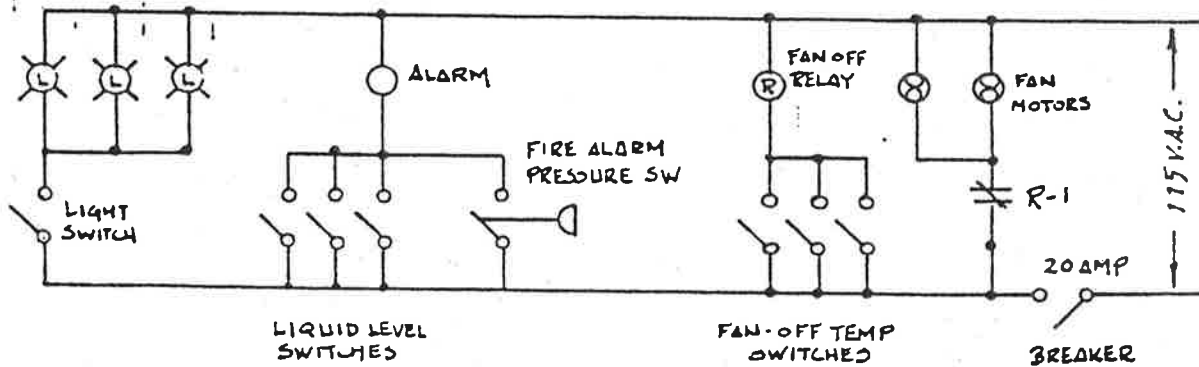
POWER REQUIREMENTS SHOULD BE DETERMINED AFTER CUSTOMER REQUIRED OPTIONS ARE DEFINED. SAFETY STORAGE, INC. WILL PROVIDE ACTUAL REQUIREMENTS BASED ON MINIMUM ELECTRICAL SYSTEMS USE, OR ON SITE HI-SERVICE POWER AVAILABLE.

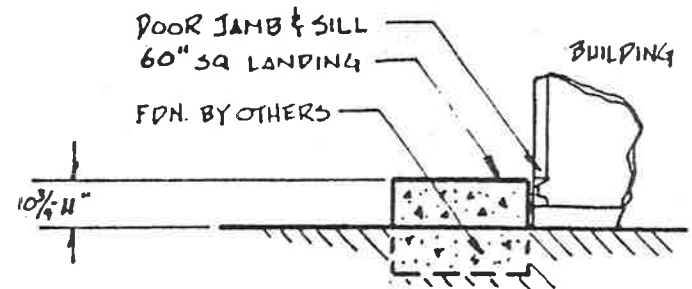
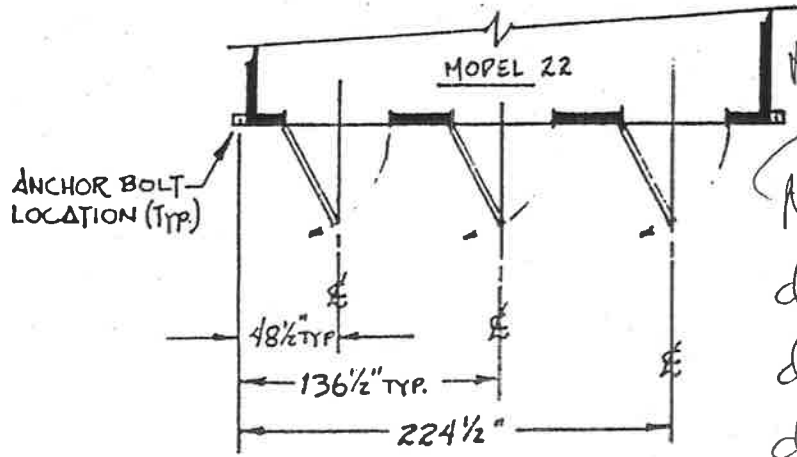
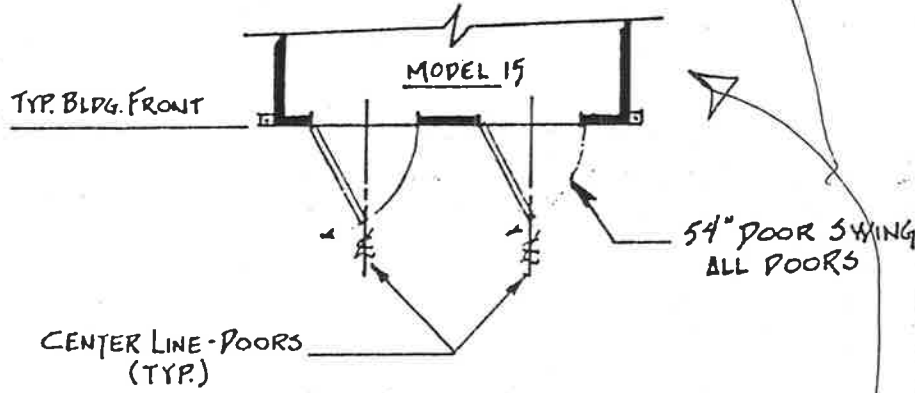
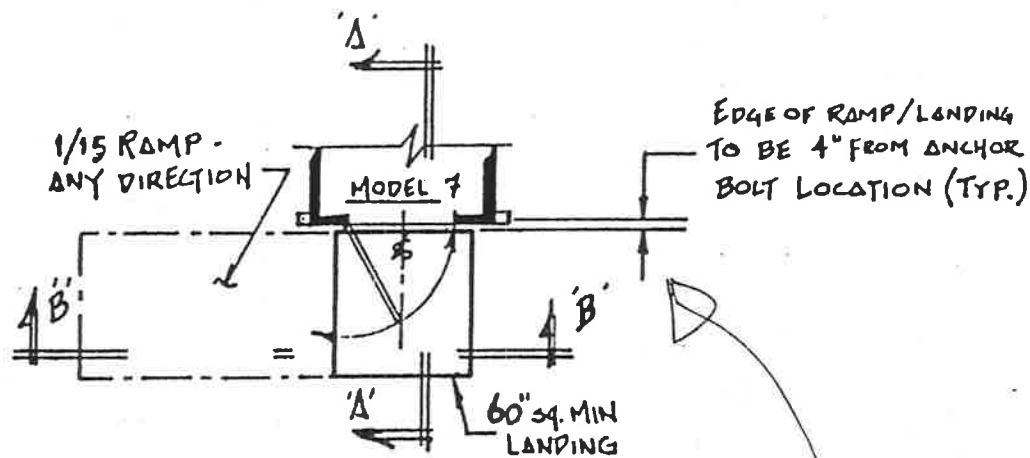
CAUTION

THESE DRAWINGS INDICATE APPROXIMATE LOCATIONS OF POWER IN-PUT ON SITE. BASED ON ACTUAL CUSTOMER ORDER, LOCATION OF FEEDER LINES AND POWER PANEL MAY CHANGE. CONSULT CUSTOMER ORDER FORM TO VERIFY PANEL LOCATION PRIOR TO INSTALLING UNDERGROUND FEEDER LINES OR JUNCTION BOXES.

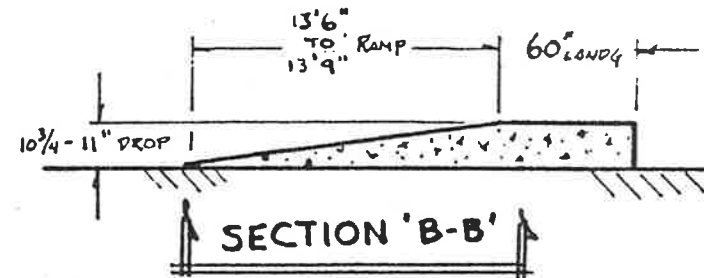


**TYPICAL
 ELECTRICAL SCHEMATIC**





SECTION 'A-A'



SECTION 'B-B'

CAUTION
 MAXIMUM RAMP PITCH SHOULD NOT EXCEED 1" DROP IN 15" RUN I.A.W. UBC. MAXIMUM HAND TRUCK OPERATOR SAFETY IS ACHIEVED BY PROVIDING A MIN 60" SQUARE LEVEL LANDING ALTHOUGH A 1/15 RAMP SERVES LANDING REQMT.

CAUTION
 REINFORCED CONCRETE AND STRUCTURAL LUMBER LANDINGS SHALL BE DESIGNED BY A LOCAL LICENSED ENGINEER RETAINED BY THE USER. INFORMATION OF THIS PAGE IS TO SERVE AS A DESIGN GUIDE ONLY.

Model 60 FR dimensions on doors are different, will be supplied.

SS SAFETY STORAGE
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FIELD INSTALLATION, OPERATION AND MAINTENANCE MANUAL

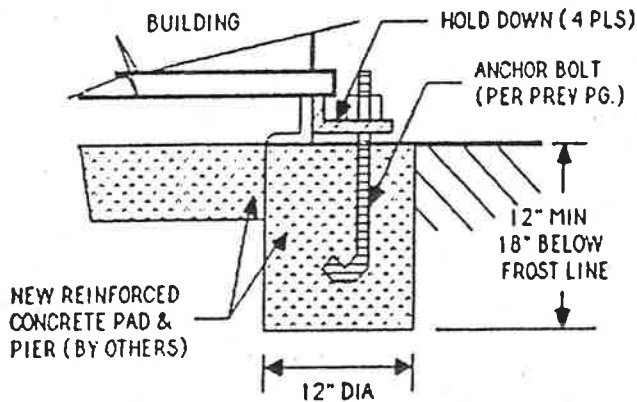
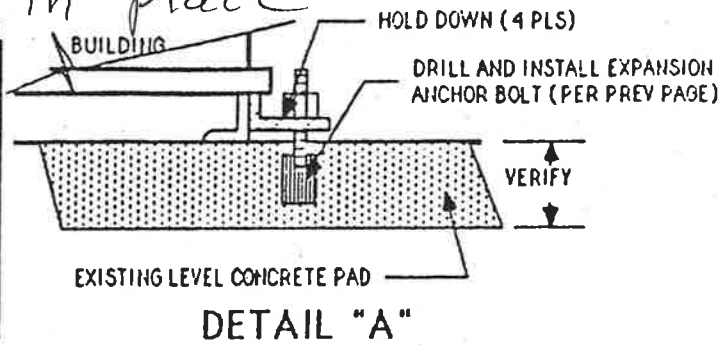
TITLE:
LANDING AND RAMP DETAILS 1/8" = 1'

Do Not set anchor bolts prior to setting Building in place

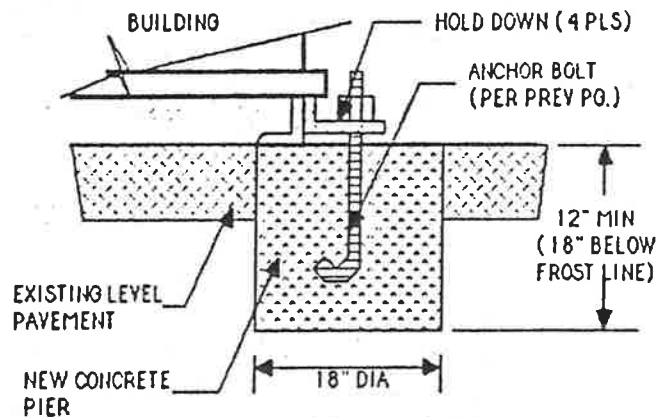
FOR EXISTING CONCRETE PAD, USE DETAIL "A"

FOR NEW PAD AND PIER, USE DETAIL "B"

FOR NEW PIER IN OTHER THAN EXISTING CONCRETE PAD, USE DETAIL "C"



DETAIL "B"



DETAIL "C"

----- CAUTION -----

BE SURE FOUNDATION PAD IS LEVEL. A 10' CHANGE IN ELEVATION ALONG THE LENGTH OF A MODEL 22 CAN REDUCE EFFECTIVE SPILL CONTAINMENT CAPACITY BY 16 GALLONS, AND CAUSE THE LIQUID LEVEL ALARM TO BE PREMATURELY ACTIVATED.

----- CAUTION -----

VOIDS UNDER FLOOR SUPPORT BEAMS MAY CAUSE THE SUMP PAN TO BE PUNCTURED BY LOADED FLOOR GRATE SUPPORTS AT LESS THAN THE FLOOR LOAD RATING OF 250 #/SQ. FT.. FILL VOID IN SLAB FOUNDATION.

----- CAUTION -----

DETAILS ARE SHOWN FOR INSTALLATIONS WHICH COMPLY WITH THE RATED ENVIRONMENTAL EXPOSURE OUTLINED IN THE PREFACE. IN CASES WHERE EXPOSURE EXCEEDS THE RATINGS, CUSTOMER IS RESPONSIBLE FOR CONTRACTING A LICENSED ENGINEER TO DESIGN ADEQUATE STRUCTURAL DETAILS FOR THAT INSTALLATION.

----- RECOMMENDATION -----

IT IS RECOMMENDED THAT FOR ALL BUT NEW SLABS AND FOUNDATIONS THAT THE EXISTING SLAB OR PAVEMENT (IF LEVEL) BE (1) MARKED FOR HOLD DOWN LOCATIONS, (2) FOUR HOLES, MINIMUM OF 18" DIAMETER BY MIN 12" DEPTH (OR 18" BELOW FROST LINE) BE EXCAVATED, AND (3) AFTER BUILDING IS SET ON LOCATION, THAT THE HOLES BE FILLED WITH CONCRETE AND MUD-SET "J" ANCHOR BOLT (PER PREVIOUS PAGE) BE SET IN PLACE. TIGHTEN AFTER CURING.

----- SEE DETAIL "C" ABOVE -----



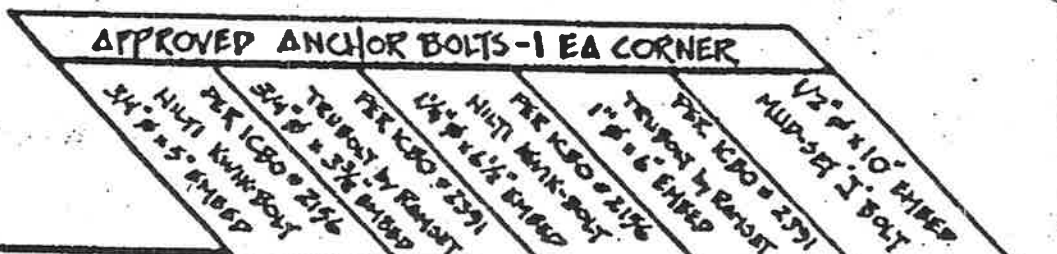
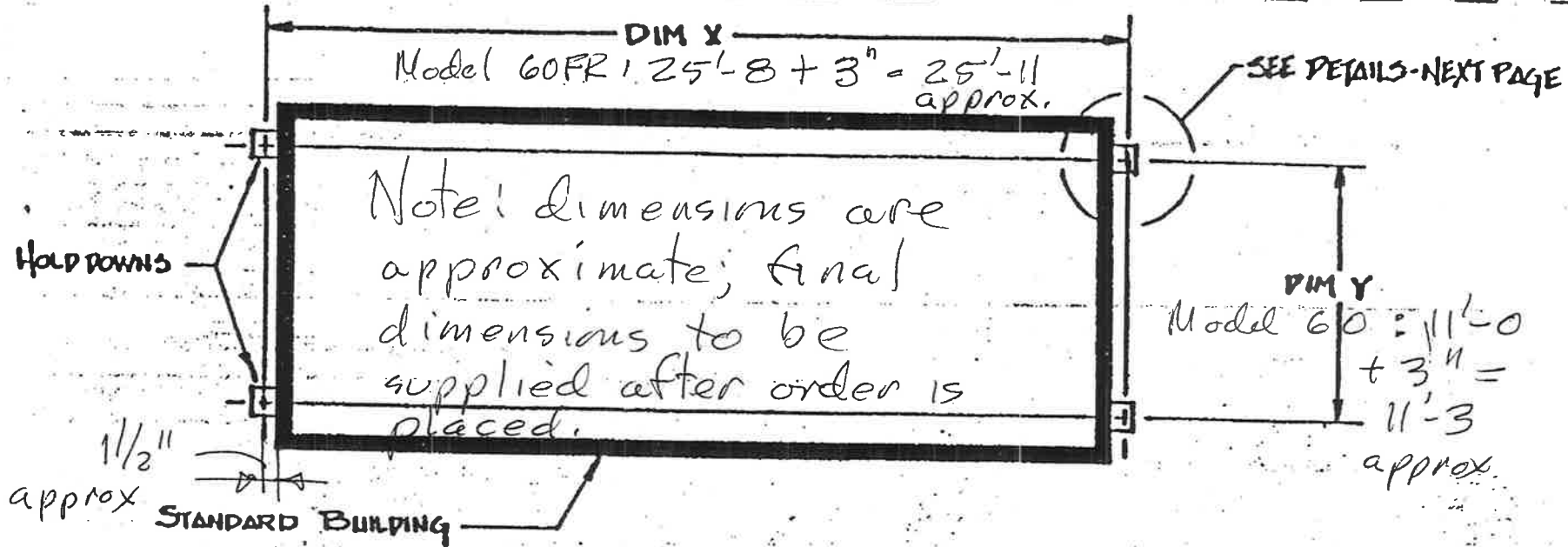
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FIELD INSTALLATION, OPERATION AND MAINTENANCE MANUAL

TITLE:

HOLD DOWN & FOUNDATION DETAILS



MODEL No	DIM X	DIM Y
14FR	103 1/2"	96"
30FR	191"	96"
44FR	279"	96"

* DIM ± 1/8"

FOUNDATION/SLAB TYPE	w/special inspection		w/o special inspection		
	OK	NO	OK	NO	OK
NEW REINFORCED CONCRETE PAD	OK	NO	OK	NO	OK
4" EXIST. REINFORCED CONC.	OK	NO	OK	NO	OK
5" EXIST. REINFORCED CONC.	OK	NO	OK	NO	OK
6" OVER EXIST. CONC.	OK	NO	OK	NO	OK
FOR A/C, ASPHALT OR OTHER EXISTING PAVEMENT	SEE DETAIL "OTHER PAVEMENT"				OK

OK TO USE

SAFETY STORAGE

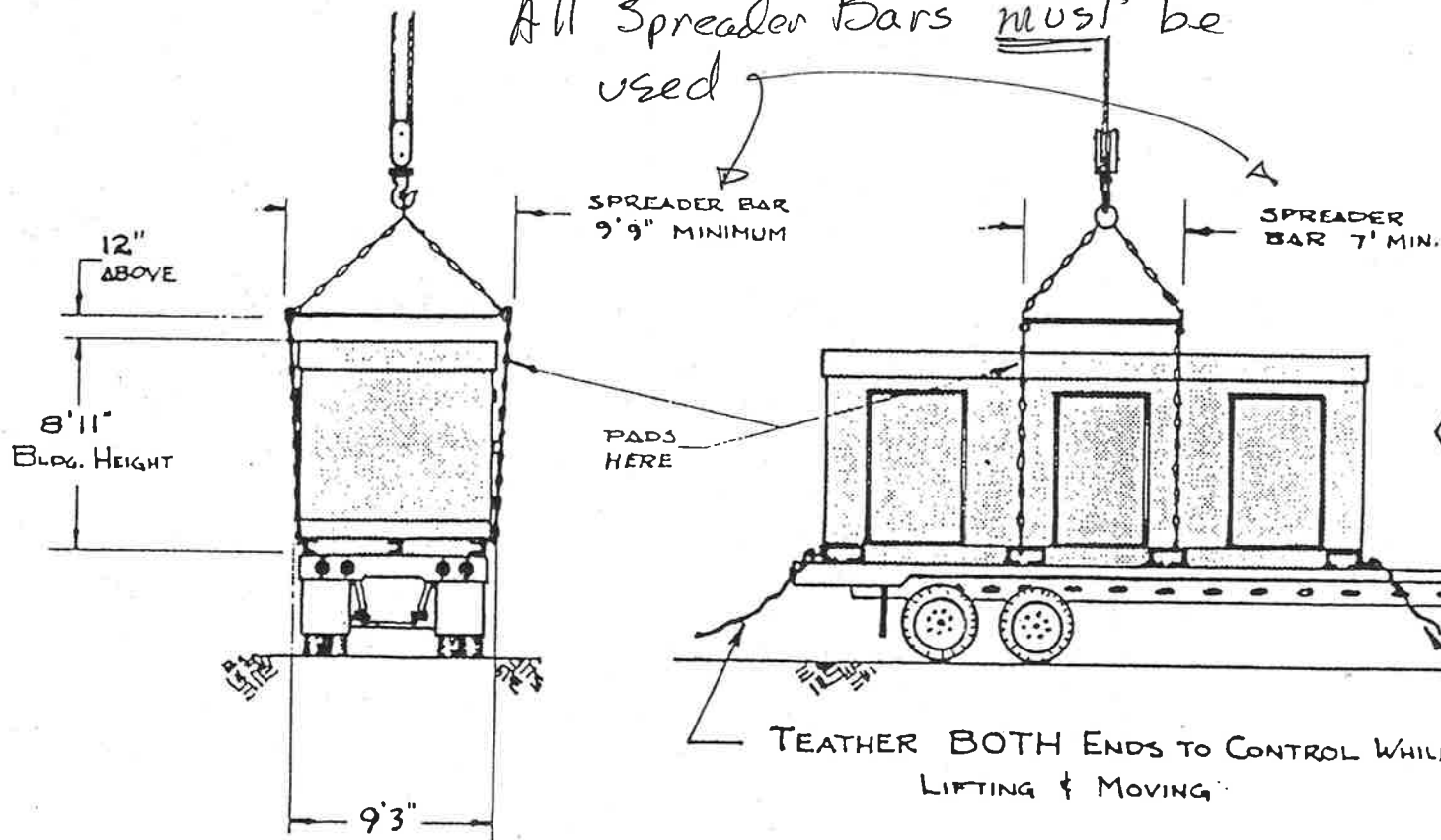
2380 SOUTH BASCOM AVENUE
CAMPBELL, CA 95008

**FIRE-RATED BUILDINGS:
HOLD-DOWN ANCHOR BOLTS
AND LOCATIONS**

C-9

28

All Spreader Bars must be used



• MINIMUM CRANE CAPACITY:

GROSS WT. OF
60 FR: 26,000 lbs
Mod ~~44~~FR: 20,250 lbs
Mod 30FR: 15,250 lbs

USE CRANE WITH TWICE BLDG WT AS CRANE CAPACITY

TEATHER BOTH ENDS TO CONTROL WHILE LIFTING & MOVING

IMPORTANT INFORMATION

1. **NO FORKS - USE CRANE ONLY FOR MODEL 30, 44 FR.**
2. **DO NOT BOUNCE OR JOLT BUILDING WHILE LIFTING.**
3. **TEATHER BOTH ENDS TO CONTROL BLDG WHILE LIFTING AND MOVING.**
4. **USE EXTREME CAUTION IN CUSTING OR HIGH WIND.**
5. **ELECTROCUTION HAZARD, WATCH OVERHEAD LINES!**



SAFETY STORAGE, INC.

2380 SOUTH BASCOM AVENUE
CAMPBELL, CALIFORNIA 95008

Model No. 30FR & 44FR - OFF-LOADING INFORMATION

CUSTOMER JOB NO

BULLETIN

DATE August 1, 1989

SCALE: 1/8"

SHEET NO.

REV

DRAWN BY: GIBBS

APVD:

2
of 2 PGS.

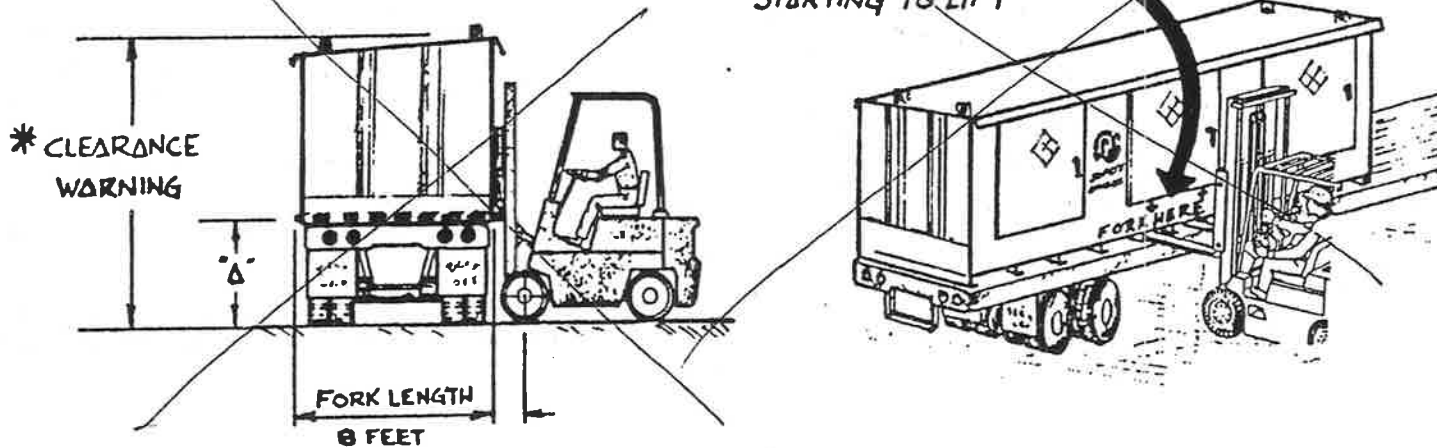
A

BULLETIN: REV A

DATE: 8/1/89

Do Not Forklift -
See "Crane" diagram

INSERT FORKS AT "FORKS HERE"
THEN SPREAD TO MAX.
WIDTH BEFORE
STARTING TO LIFT



FORK LIFT CAPACITY INFORMATION

BUILDING MODEL	WEIGHT (ESTIMATED)	MINIMUM RATED LIFT CAPACITY (48" L.C.)	FORK LENGTH	MINIMUM LIFT "A"
7	3400 LBS	7500 LBS	8 FEET	6 FEET
15	6000 LBS	13,500 LBS	8 FEET	6 FEET
22	8600 LBS	20,000 LBS	8 FEET	6 FEET
60FR	26,000 LBS	52,000 LB - CRANE		

*** SPECIAL NOTICE ***
LIFTING WITH CRANE

WHEN LIFTING AND MOVING THE BUILDING WITH A CRANE, FOLLOW ALL SPECIAL NOTICES, WARNINGS AND CAUTIONS FOUND ON THIS INFORMATION SHEET.

PLUS

- LIFT WITH CAPACITY APPROVED CHAIN, CABLE OR STRAPS.
- STRAP UNDER BUILDING ONLY, THROUGH CHANNELS LABELED "FORKS HERE"
- USE SPREADER BARS (MINIMUM 8-1/2 FEET) MINIMUM 2 FEET OVER ROOF, TO PREVENT DAMAGE TO FRONT AND REAR ROOF OVERHANGS.
- AT LEAST ONE END OF THE BUILDING IS TO BE TETHERED TO PREVENT BUILDING FROM SWINGING OR ROTATING IN AN UNCONTROLLABLE MANNER.

WARNING

ACTUAL SHIPPING WEIGHTS ARE PROVIDED PRIOR TO SHIPPING. CUSTOMER SHALL ASSURE THAT THE LIFTING EQUIPMENT IS CAPABLE OF SAFELY LIFTING AND MOVING THE BUILDING WEIGHT. MINIMUM RECOMMENDED LIFTING CAPACITIES ARE GIVEN IN THE ABOVE CHART: WHEN FIGURING CAPACITY, ACCOUNT FOR LOAD CENTER @ 48".

WARNING

ELECTROCUTION HAZARD! CHECK OVERHEAD CLEARANCE BEFORE MOVING BUILDING. THE AREA MUST BE FREE OF OVERHEAD ELECTRICAL, PLUMBING OR OTHER POTENTIALLY HAZARDOUS OBSTRUCTIONS.

CAUTION

BUILDING IS UNSTABLE WHILE BEING LIFTED. EXTREME CAUTION IS TO BE USED IN HIGH WIND OR GUSTY WIND CONDITIONS. WORKER INJURY OR EQUIPMENT DAMAGE MAY RESULT.

EYE HOOKS ON THE TOP OF THE BUILDING ARE NOT TO BE USED FOR LIFTING. THESE ARE FOR FACTORY MANUFACTURING PURPOSES ONLY AND ARE NOT INTENDED FOR ANY FIELD USE WHATSOEVER.



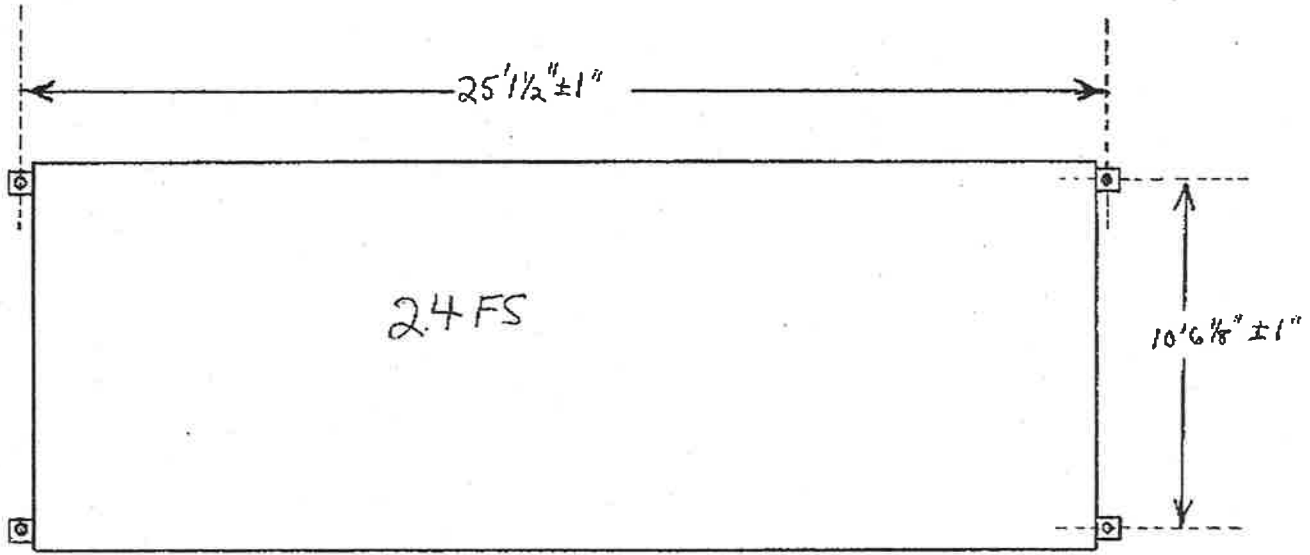
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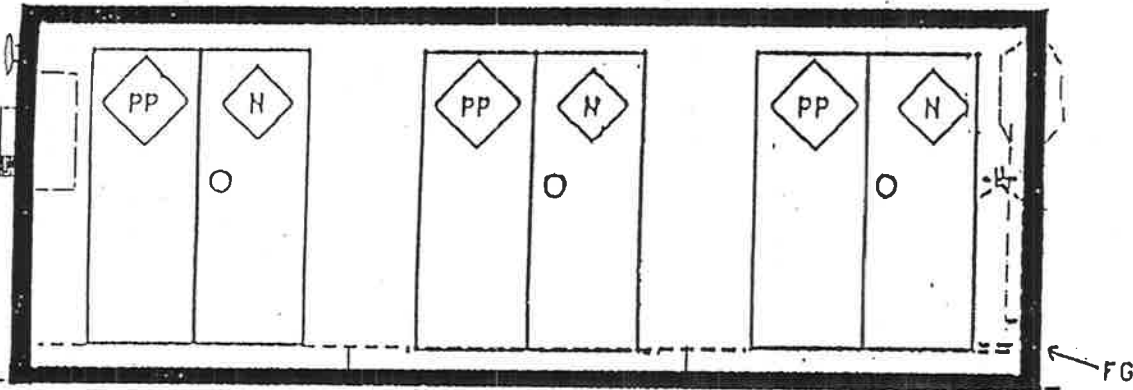
FIELD INSTALLATION, OPERATION AND MAINTENANCE MANUAL

TITLE:

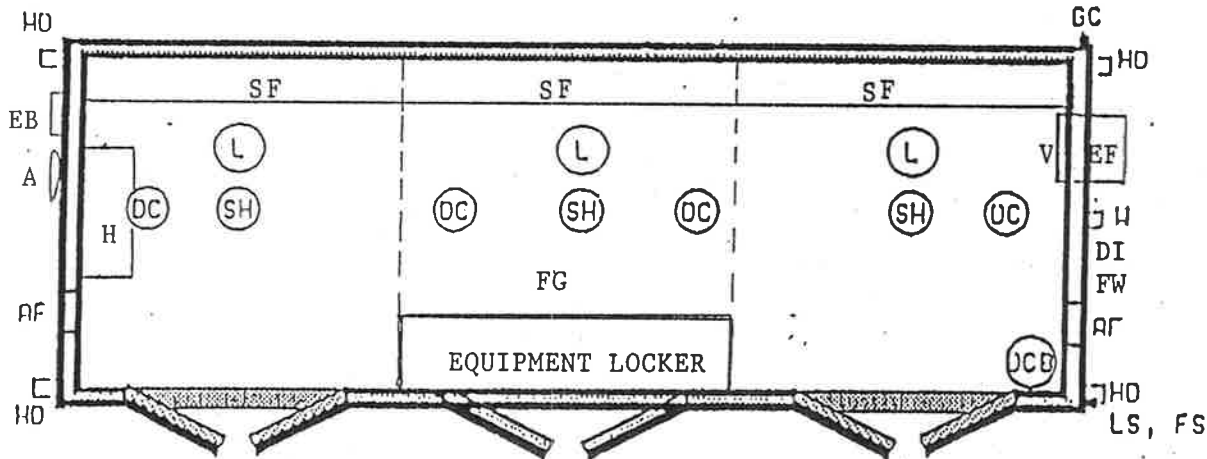
BUILDING UNLOADING INFORMATION



(PW)
4-1-92



FRONT ELEVATION

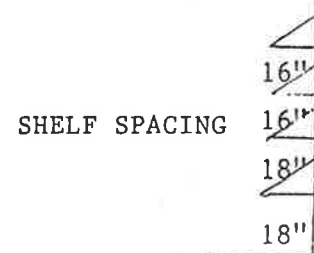


PLAN VIEW

- LEGEND**
- A: ALARM FOR DRY CHEMICAL
 - AF: AIR INLET VENT WITH 1.5 HOUR FIRE DAMPER
 - DC: DRY CHEMICAL NOZZLE
 - DCB: ANSUL DRY CHEMICAL BOTTLE
 - DI: DOUBLE-WALL CONSTRUCTION AND R-11 INSULATION
 - EBI: EB FOR TEMP CONTROL
 - EF: EXHAUST FAN (12')
 - FG: FIBERGLASS FLOOR GRATING
 - FS: FAN SWITCH
 - FW: TWO HOUR FIRE WALL
 - GC: GROUNDING CONNECTION
 - H: HEATER
 - HD: HOLD-DOWN BRACKET
 - L: EXPLOSION PROOF LIGHT
 - LS: LIGHT SWITCH
 - N: NFPA 704M RATING SIGN
 - PP: PERMANENT D.O.T. PLACARD
 - SH: WATER SPRINKLER SPRAY HEAD
 - T: THERMOSTAT
 - V: VENT
 - W: WATER SPRINKLER HOOKUP

SF: Fixed Shelving

Note: Electrical Hookup and alarm to be on the left side of this building



SAFETY STORAGE, INC.

JOB #: _____
 COMPANY: BOULDER/LAIDLAW
 ADDRESS: P.O. BOX 210799
 COLUMBIA, SC 29221
 CONTACT: MR. LARRY GANT

PHONE: 800/845-1019

ACCEPTED FOR PRODUCTION:

X _____

BUILDING TWO
 CUSTOM

MODEL 24FS