

SCLA FURNISH, DELIVER, INSTALL, MONITOR, MAINTAIN AND REPAIR FIRE ALARM SYSTEMS PROJECT #ES13-072 MAY 22, 2013 ADDENDUM #2

The attached constitutes additional information and serves to clarify issues considered to be part of the Southern California Logistics Airport Authority "Furnish, Deliver, Install, Monitor, Maintain and Repair Fire Alarm Systems, Project ES13-072.

Should you have any further questions, please feel free to email or fax them to Elizabeth Salcido, Purchasing Technician at Fax (760) 269-0045, or email: esalcido@ci.victorville.ca.us.

GENERAL QUESTIONS

- 1. Q. Will the Fire Department be performing the inspections on this project?
 - A. Yes.
- 2. Q. Are there any drawings available or is this a design build?
 - A. No, there are no drawings of the fire alarm systems. It is a design build.
- 3. Q. What is the time frame for the monitoring service?
 - A. The contract will be for one (1) base year and four (4) additional one year options
- 4. Q. If this is a design build project, do plans need to be turned in to the Fire Department for approval and permits?
 - A. All plans must be turned into the Fire Department and turnaround is normally one week after receipt.
- 5. Q. Does the City Web Site list the minimum requirements for the submittal of plans and obtaining permits?
 - A. Web Site is currently being updated. Please call the Fire Marshal for updated requirements.
- 6. Q. Is there any encroachment permits required?
 - A. Yes. For any construction, contractors are required to obtain building permits. However, fees do not apply for any City related work building permits. Though, fees will apply to fire permits.

- 7. Q. Is the Fire Department fee schedule listed on their web site?
 - A. No. As previously mentioned, the Fire Department web site is in the process of being updated. Contractors must contact the Fire Department to obtain the updated fees.
- 8. Q. What is the expected start date?
 - A. The start date has not yet been determined. The total cost will determine if the project must be submitted to City Council for approval prior to proceeding. This may cause a two-three week delay in awarding the project and thus affect the actual start date.
- 9. Q. Will liquidated damages apply to this project?
 - A. Yes. Liquidated damages may be found in the RFB on page 12, paragraph 5.
- 10. Q. Do the buildings have a foam system?
 - A. No.
- 11. Q. Will contractors be required to provide electrical to the panels or does SCLAA have an electrician on staff?
 - A. Contractors will have to provide the electrical. SCLAA do not have electricians available to assist.
- 12. Q. What are the license requirements?
 - A. Contractors must have a C-10 Electrical. Contractors must also possess a training/certification by equipment manufacturer.
- 13. Q. Does SCLA require new systems in all buildings or rework of existing alarm systems?
 - A. Buildings 731 and 734 will require entire new systems. Pump Houses 1 and 2 require an upgrade to existing systems.
- 14. Q. Do pump controllers have to be replaced?
 - A. No.
- 15. Q. Pump Houses have seven (7) pumps in each pump house, does SCLA require monitoring of each pump point?
 - A. Contractors are to provide price to monitor Pump Run on each of the pump controllers along with the OSY valves.
- 16. Q. Will ADA compliance apply to the monitoring portion?
 - A. Yes. ADA compliance is required. Contractors are to include horns and strobe, where applicable.
- 17. Q. Does SCLA have scalable plans of each building location that can be used for the design build?
 - A. Yes. Plans are attached, and hereby made a part of this addendum.

- 18. Q. Is there any fuel or hazardous material removal or abatement requirements?
 - A. No.
- 19. Q. What is the estimated year of construction of the Hangars?
 - A. Estimated time of construction is 1950.
- 20. Q. Is mono coating required?
 - A. No.
- 21. Q. Does this contract require compliance of the Disadvantaged Business Enterprise requirements?
 - A. No.
- 22. Q. Have the four buildings in question had their five (5) year certifications completed?
 - A. No.
- 23. Q. Is sprinkler work required?
 - A. No, strictly panels.
- 24. Q. Accepting GSM/G3 for radio?
 - A. Yes.
- 25. Q. Does SCLA have their own control station for this?
 - A. No. We do not require UUFX) transmitting.
- 26. Q. In Pump Houses, will 110 electrical wiring be required to be in conduit?
 - A If it is currently in conduit, it must stay in conduit.

PUMP HOUSE 1 QUESTIONS

- 27. Q. Is it the intention to monitor pump and tamper switches?
 - A. Yes, monitor flow switches on each pump and tamper on each pump.
- 28. Q. Do you require monitoring of sprinkler system?
 - A. Yes.
- 29. Q. Does SCLA require monitoring of each pump point?
 - A. Answer as listed in question 16 above.
- 30. Q. The wiring is run on conduit, so it should remain in conduit?
 - A. Yes.
- 31. Q. What type of notification is required?
 - A. Notification is to match existing. Contractors are to add a horn and strobe to the external front section of the building. All wiring for added horn and strobe is to be run in conduit and connected to the fire panel. Existing beacon is to remain intact.

PUMP HOUSE 2 QUESTIONS

- 32. Q. Will heat sensors and pull stations need to be integrated into the fire panel?
 - A. Yes. Heat sensors and pull stations are to be added to the fire panel.
- 33. Q. Are Pull Stations to be left as is?
 - A. Pull stations need to be replaced if existing are not compatible with new fire panel.
- 34. Q. Are there heat sensors in Pump House 1?
 - A. No.
- 35. Q. Is a horn and strobe to be added to Pump House 2 as well?
 - A. Yes. Leave existing beacon and provide the same type of horn and strobe as Pump House 1.

BUILDING 731 QUESTIONS

- 36. Q, Do you want complete removal of the existing panel?
 - A. Yes. Remove and install a new fire alarm panel and connect existing supervisory valve switches as noted in the scope of work.
- 37. Q. The scope calls for installation of horn/strobe devises, as required for notification. Where are these to be located?
 - A. Strobes and horns are to be located in the break room and all common areas. Common areas are defined as locations where there is currently a bell, each rest room and break room, as well as the office exterior wall (within the hangar) over each double door.
- 38. Q. Are there any recycling requirements?
 - A. Yes. Recyclable materials are to be handled in accordance with the solicitation, pages 81-84, Demolition Waste Recycling Plan and Summary Waste Disposal and Diversion Report.
- 39. Q. Will heat detectors, located on ceiling tiles need to be monitored?
 - A. No. Contractors are to remove and cap. Repairs and repaint will be completed by SCLA staff.
- 40. Q. Are contractors responsible for ceiling tile replacement?
 - A. No.
- Q. What are the requirements for the two pull stations located on the north east and north west sides of the buildings?
 - A. Contractors are to demo devises, leave conduit and wiring in place and cap. Repairs and repaint will be completed by SCLA staff.
- 42. Q. Are bells to be removed?
 - A. Yes. Bells are to be removed and caped. Repairs and repaint will be completed by SCLA staff.

- 43. Q. Where are the smoke detectors, used for fire alarm protection, to be installed?
 - A. Contractors are to install a shelf and mount smoke detector under the shelf.
- 44. Q. Is monitoring of the PIV required?
 - A. No.
- 45. Q. Does a bell need to be installed on the outside of the building?
 - A. No. However, a weather proof horn and strobe is to be installed centered just above the hangar door, on the taxiway side or on the corner of the building as long as it is the same wall (shortest distance from the panel to the airfield side.
- 46. Q. Will notification equipment need to be installed on the north side of the building as well?
 - A. No.
- 47. Q. Will contractors be required to return and test the system once sprinklers are installed?
 - A. Yes. The contractor will be required to schedule a testing appointment with SCLA staff and the Victorville Fire Marshal and perform the test to the satisfaction of the Fire Marshal.

BUILDING 734 QUESTIONS

- 48. Q. Is this a deluge system?
 - A. Yes.
- 49. Q. Are contractors to replace heat detectors?
 - A. No.
- 50. Q. Are heat detectors to be cross zoned?
 - A. No, they are to remain as is, 2 zones as originally designed.
- 51. Q. When testing heat detectors, are contractors required to test each one or only spot test?
 - A. A spot test will be conducted by the fire marshal. It is the responsibility of the contractor to ensure that all heat detectors are operational.
- 52. Q. Will you be getting rid of pull stations?
 - A. Yes. The contractor is to remove all pull stations.
- 53. Q. Does this building require a new panel?
 - A. As noted in the scope of work, contractors are to install a new fire monitoring release panel.
- 54. Q. Is there a measurement preference as far as the height of the panel installation.
 - A. The preference is to install the new panel at the currently required maximum of 60" high, however the fire marshal is waiving this requirement due to the age of the original construction.

- 55. Q. Where are horns and strobes to be installed in this building?
 - A. Contractors are to install horns and strobes above each double door (in 3rds) and also in each rest room, break room and at each location where there is currently a bell. Also, a weatherproof horn and strobe is to be installed centered just above the hangar door, on the taxiway side or on the corner of the building as long as it is the same wall (shortest distance from the panel to the airfield side.
- 56. Q. Do you want public annunciators to inform public?
 - A. No.
- 57. O. Is the PIV to be monitored?
 - A. No.
- 58. Q. Are bells inside the building to be demolished?
 - A. Yes. At ceiling level, leave all runs in place. Main flex bell need to be removed.
- 59. Q. What about the main trunk line?
 - A. Contractors are to provide two separate bids as follows:
 - 1. Use existing wiring.
 - 2. Run new accessible wires.
- 60. Q. Do you want one standard key for all panels or contractors are to provide the Keys that come with each panel?
 - A. Just provide the key that comes with each panel.

REVISIONS:

Bid Sheet has been revised to Trunk wiring in building 734.

STATEMENTS:

For the hangars, the panel needs to be on a dedicated electrical circuit after the main power.

For all buildings: Any and all existing monitoring devices that are not compatible with the new panels must be changed to a device that is compatible. The alarm system is to be fully functional.

ATTACHMENTS

Pump House 1 Plans (25 pages)
Building 734 Plans (1 page)
Deluge 1 Plans (25 pages)
Building 731 Plans (2 pages)
Revised Bid Sheets (5 pages)

Pre-bid Meeting Sign In Sheet (1 page)

(END OF PAGE)

Please confirm receipt of this Addendum #2, ES13-072, by either faxing the acknowledgment to the City of Victorville, Purchasing Division at (760) 269-0045, or by attaching the signed acknowledgment to your bid proposal. **Failure to acknowledge receipt of this addendum may result in the disqualification of your proposal**. The undersigned acknowledges receipt of ADDENDUM #2:

Name of Bidder	
Address	
Telephone No	Fax No:
Signature:	
Title	Date

SHT. NO.

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FLOOR PLAN

ROOF PLAN

PERSPECTIVE VIEW

ELECTRICAL SITE PLAN

ELECTRICAL DIAGRAMS

ELECTRICAL POWER PLAN

ELECTRICAL FLOOR PLAN

PUMP CONTROLL DIAGRAMS

MECHANICAL FLOOR PLAN

MECHANICAL DETAILS

FIRE PUMP SITE PLAN

FRENCH DRAIN SECTION

ENGINE/PUMP PADS

FOUNDATION PLAN

PUMP HOUSE LAY-OUT

PUMP HOUSE SPRINKLER NOTES

PUMP HOUSE SPRINKLER PLAN

SECTIONS

ELEVATIONS

DIAGRAMS

SITE DETAILS

SITE PLAN

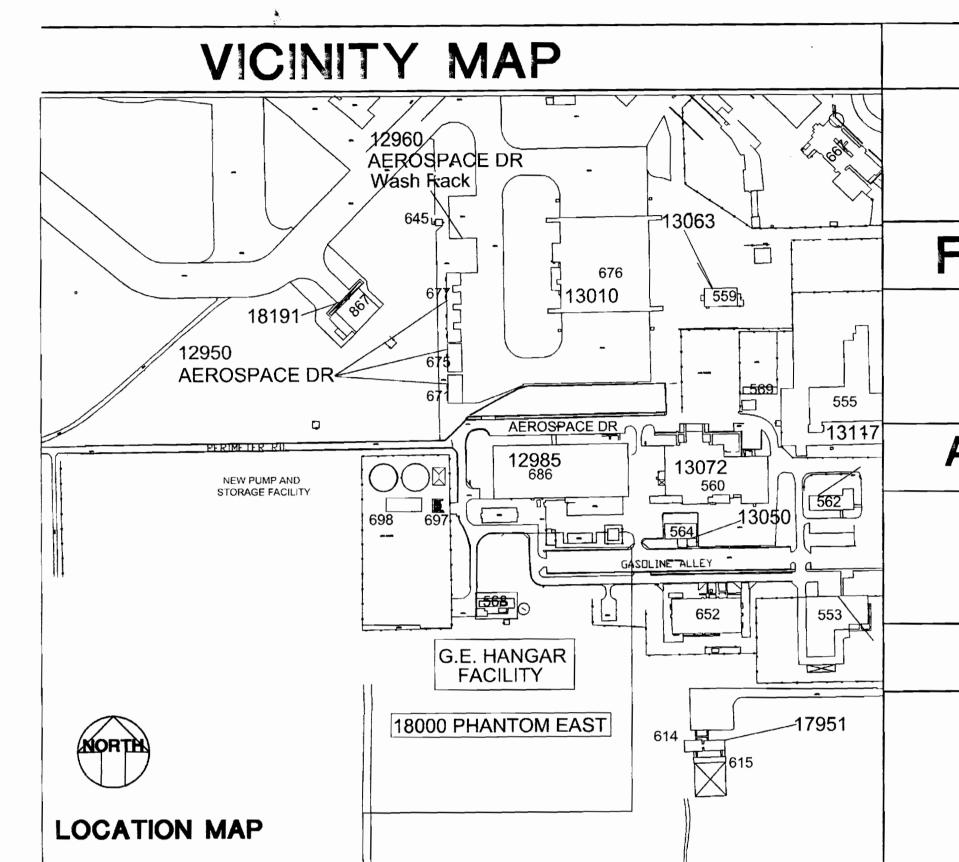
POUNDS

MANHOLE

MOVABLE

MOUNTED NOT IN CONTRACT NEW

LIGHTING PLAN



13010

18000 PHANTOM EAST

AEROSPACE DR

NEW WERK SITE

SITE * MAP

OWNER CITY OF VICTORVILLE 14343 CIVIC DRIVE

VICTORVILLE, CALIFORNIA 92392-2399

FIRE PROTECTION ENGINEER

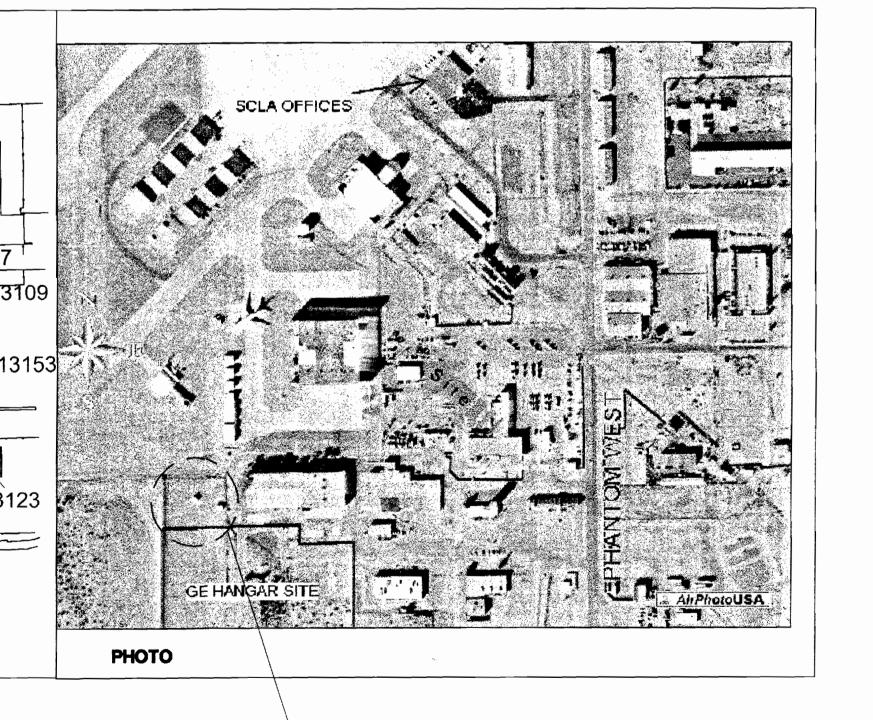
Fire & Pump Service Group
1513 Del Amo Blvd Carson , CA 90746 310.223.3990

ARCHITECTURE AND ENGINEERING

BRC DESIGN ASSOCIATES PO BOX 55105 Stockton, CA 95205

CONTRACTOR

I.C.E. BUILDERS INC. 421 EAST CERRITOS AVENUE **ANAHEIM, CA. 92805** 714.491.1317



CODE INFO. DRAWING INDEX SHEET TITLE **BUILDING CODE 1997 UBC** TITLE SHEET, PROJECT INFORMATION

OCCUPANCY GROUP USE FIRE PROTECTION CONSTRUCTION TYPE 11

AS-BUILTS

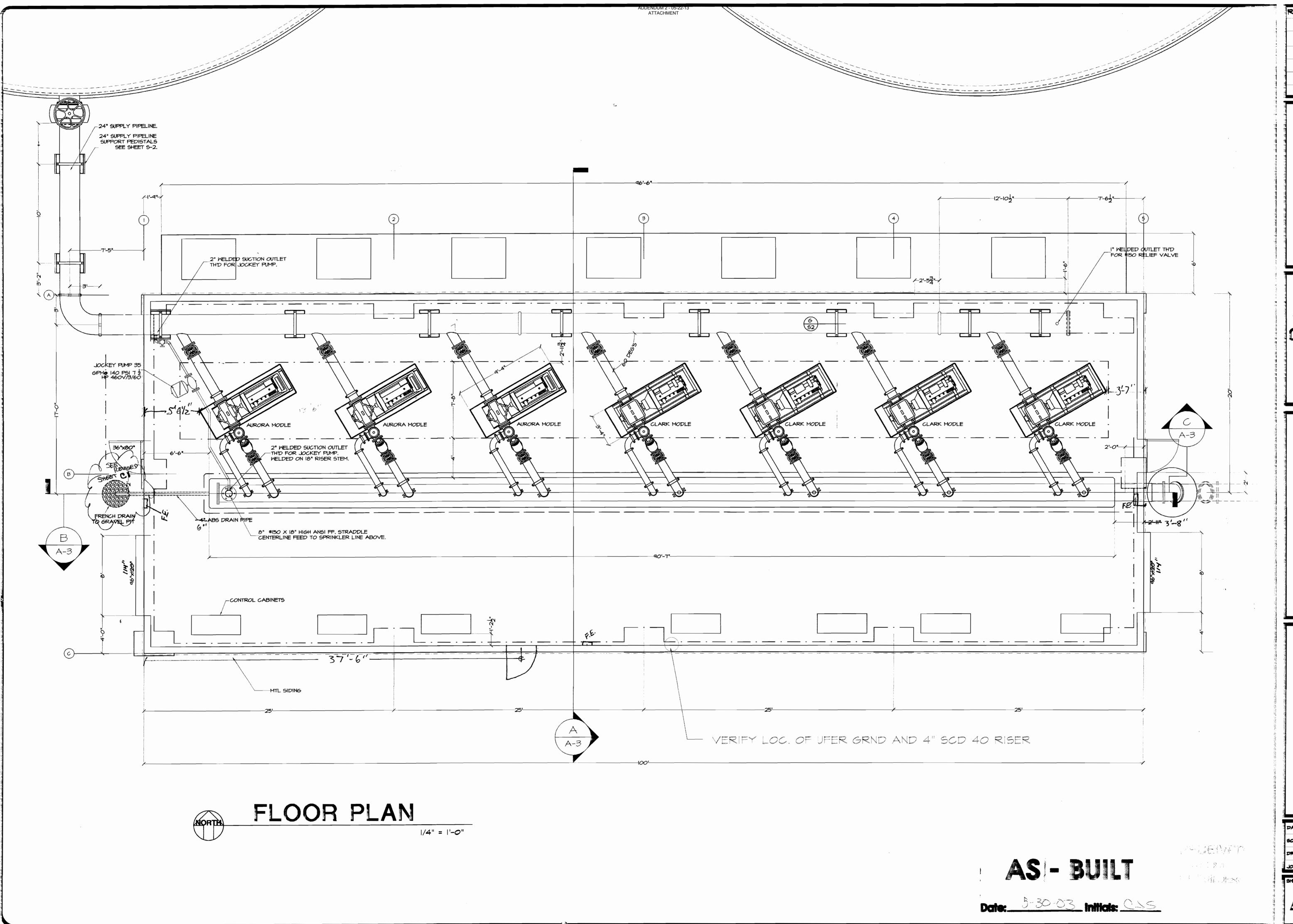
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C.P. W.F. W.O.N.T. WO.N.T. W.P.T. W.P.T. W.F.T. W.F. W.F.	AND AT ASPHALTIC CONCRETE ASBESTOS CEMENT PIPE ALUMINUM ABOVE FLOOR FINISH BOARD BLOCK BOTTOM CERAMIC TILE CENTER LINE CONCRETE MASONRY UNIT CONVENIENCE OUTLET CONCRETE CONTINUOUS CIRCUIT CONNECTION DRAWING DETAIL DIMENSION DOOR OPENING DIAMETER EACHWAY EXPANSION EXTERIOR EACH EQUAL ELEVATION EXISTING FINISHED FLOOR FEET GRADE GATE VALVE GYPSUM WALL BOARD HORIZONTAL HOLLOW CORE	No. C. D. D. S.	NUMBER ON CENTER OUTSIDE DIAMETER OPENING PLATE POUNDS PER SQUARE INCH REINFORCEMENT REQUIRED RESILIENT FLOOR TILE RESILIENT COMPOSITION BASE SOLID CORE SECTION SHEET SIMILAR SQUARE STATION STANDARD STEEL STIRRUP STRUCTURAL STAINLESS STEEL SYMMETRICAL SUSPENDED ACOUSTIC CEILING SCHEDULE TELEPHONE TEMPORARY TERMINAL THICK, THICKNESS TYPICAL VARIES VINYL COMPOSITION TILE VERTICAL WIDE WITH WINDOW OPENING WELDED WIRE FABRIC
JR. } . 	HOLLOW CORE INSIDE DIAMETER INTERIOR INVERT JOINT	F.E.	FIRE EXTENSOISHER
	LINEAR FOOT		

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REVISIONS

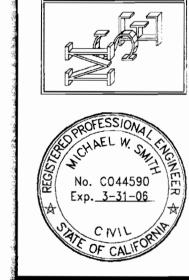
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Fire & Pump Service Group 1513 DelAmo Blvd Carson, Ca 90746 0-223-3990 LIC. NO. 786946

BRC
DESIGN ASSOCIATES
P.O. BOX 55105 STOCKTON, CA 45205

MIKE SMITH
ENGINEERING, INC.
4 NORTH MAIN STREET
LODI, CALIFORNIA 95240
PHONE (209) 334-2332



UMP & STORAGE
DELUGE SYSTEM
TORVILLE AIRPORT

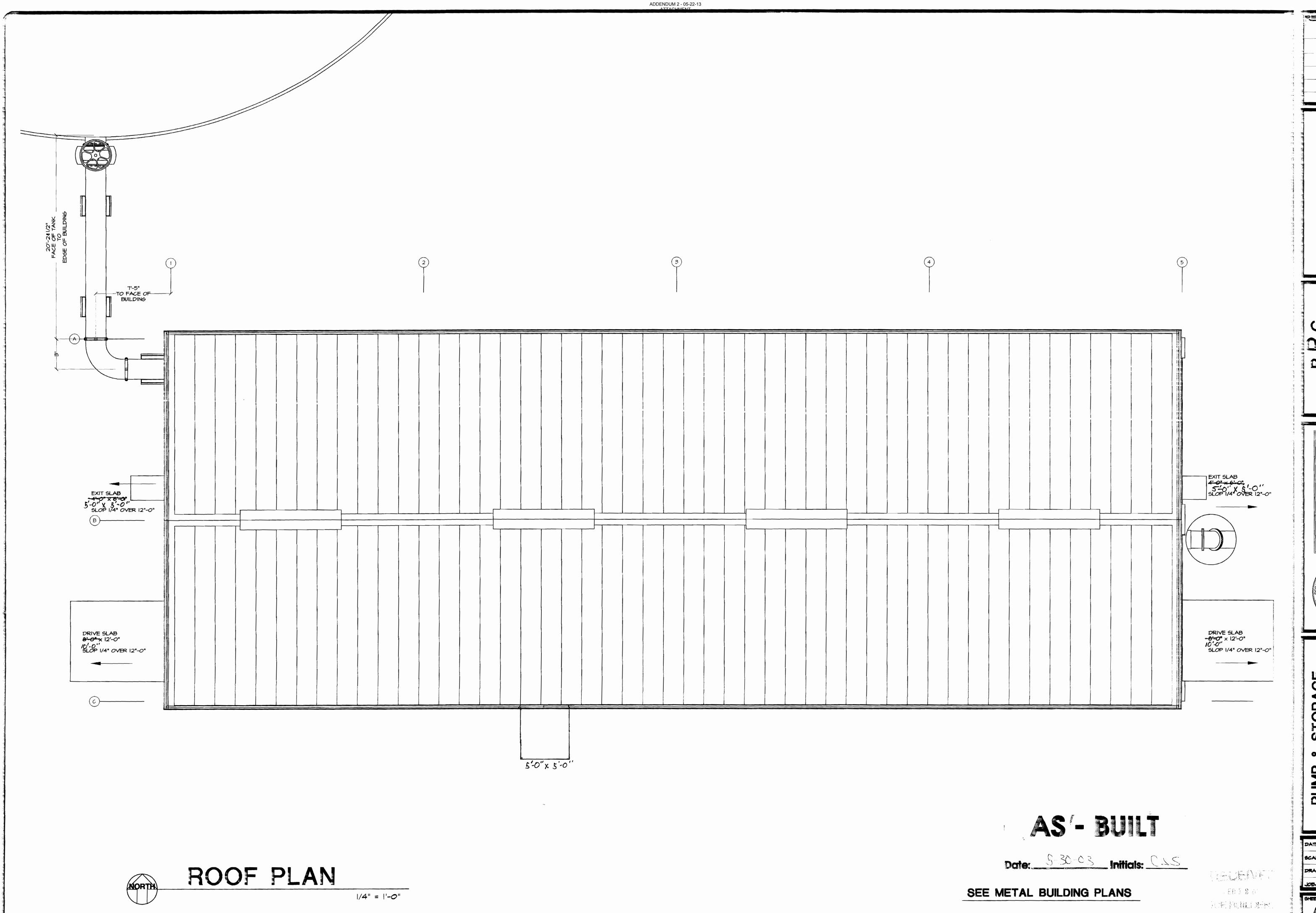
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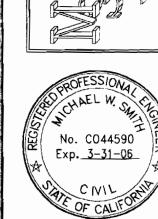
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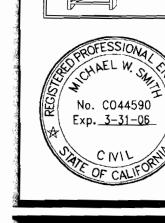
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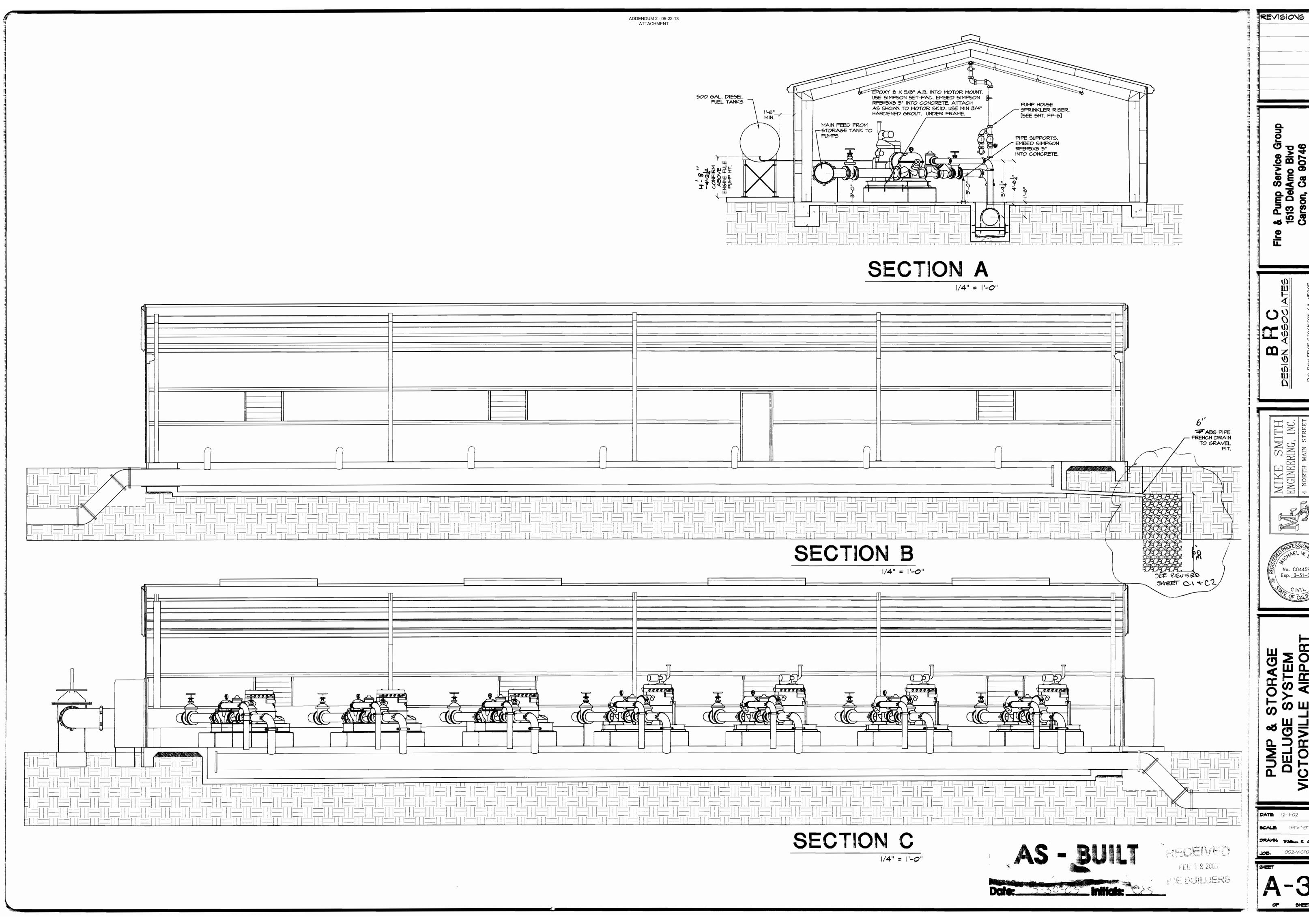




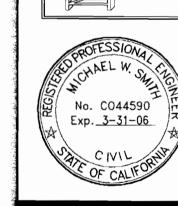
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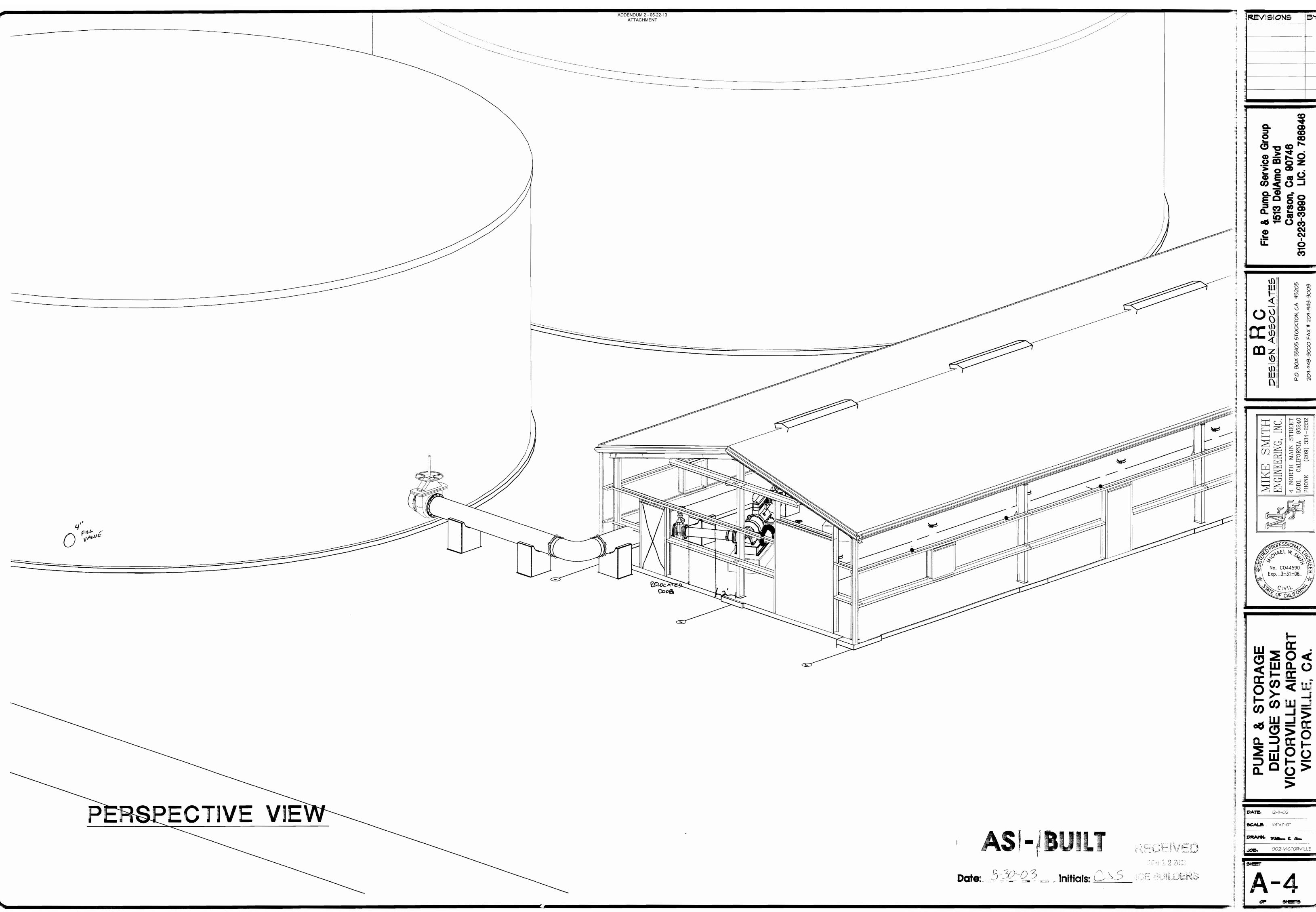
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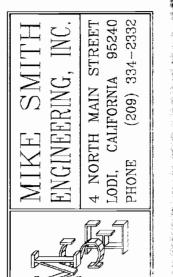


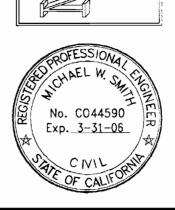
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786946

Fire & Pump Service Group
1513 DelAmo Blvd
Carson, Ca 90746

DESIGN ASSOCIATES
P.O. BOX 55105 STOCKTON, CA 45205
204-443-3000 FAX # 209-443-3003





PUMP & STORAGE DELUGE SYSTEM VICTORVILLE AIRPORT VICTORVILLE, CA.

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	LEGI		1
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A AFF AFG AWG	AMPERE(S) ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AMERICAN WIRE GAUGE	N NB NEC	NEUTRAL NEUTRAL BUS BAR NATIONAL ELECTRICAL CODE
C C CB CF	CELSIUS (CENTEGRADE) CONDUIT CIRCUIT BREAKER COMPACT FLUORESCENT	Ф OSHA	PHASE(S) OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
CU	COPPER	PVC	POLYVINYL CHLORIDE
e.g. E.C. EMT	FOR EXAMPLE ELECTRICAL CONTRACTOR ELECTRICAL METALLIC TUBING	RSC	(GALVANIZED) RIGID STEEL CONDUIT
F FACP FF FG FPC	FAHRENHEIT FIRE ALARM CONTROL PANEL FINISHED FLOOR FINISHED GRADE FIRE PUMP CONTROLLER	sf SH. SP TYP.	SQUARE FOOT (FEET) SHEET SERVICE PANEL TYPICAL
G GB GFI	GROUND GROUND BUS BAR GROUND FAULT CIRCUIT INTERRUPTOR	UBC UH UL	UNIFORM BUILDING CODE UNIT HEATER UNDERWRITERS' LABORATORIES
HP	HORSEPOWER	V VA	VOLT(S)
IF IR	INSIDE FROSTED INTERRUPTING RATING	W	VOLT-AMPERE(S) WATT(S)
M.C. MCA MOCP	MECHANICAL CONTRACTOR MINIMUM CIRCUIT AMPERE(S) MAXIMUM OVERCURRENT PROTECTION	WEF WH WP	WALL EXHAUST FAN WATT-HOUR METER WEATHERPROOF (NEMA 3R
SYMBOL	DESCRIPTION		1
	RACEWAY		
	RACEWAY TURNS UP AND/OR BEC	OMES EXPOSED	
	RACEWAY TURNS DOWN AND/OR I		
	HOME RUN, DESTINATION SHOWN		
	HOME RUN, PANEL AND BRANCH C	CIRCUIT SHOWN	
	BURIED RACEWAY		
 	SLASH MARKS ON RACEWAY SYMI CONTAINED THEREIN; LONG SLAS PER NEC OR AS SHOWN		
a	LIGHT FIXTURE; REFER TO LIGHT F SH. E3 FOR MOUNTING; CONNECT		
a \$	LOWER CASE LETTER INDICATES		
\$	WALL LIGHT SWITCH; SINGLE POLI		
\$ ^M	MANUAL MOTOR STARTER, EQUAL ENCLOSURE AND COVER PLATE RECEPTACLE OUTLET: DUPLEX; N		
Ф ²	WIRE, 15A, 125V); CLASS A GFI; OU CONNECT TO CB PANEL BRANCH (ITLET BOX CENTERLI CIRCUIT SHOWN (e.g.	NE 3'-9" AFF; WP COVER PLATE PANEL A CIRCUIT 2)
- 	SAME, EXCEPT QUADRUPLEX (TWO	,	
<u> </u>	JUNCTION BOX		
	CONNECT TO ITEM NOT PROVIDED	BY ELECTRICAL	
30/3/15 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	COMBINATION MOTOR STARTER; S SWITCH, 15A RK5 TIME DELAY FUS		GS SHOWN (e.g. 30A, 3 POLE
	CIRCUIT BREAKER, THERMAL-MAG SHOWN; /2 INDICATES 2 POLE; /3 IN	SNETIC; TRIP RATING NDICATES 3 POLE; US	AND NUMBER OF POLES SE NO HANDLE TIES
①	THERMOSTAT		
	FIRE ALARM MANUAL PULL STATIC		MOUNT 3'-9" AFF
\Diamond	HEAT DETECTOR; 195°; MOUNT ON	N PURLIN	
Ф	SINGLE RECEPTACLE OUTLET, 100A, MOUNT 3'-9" AFF	, WITH PLUG, APPLETO	DN = ADJA1034-150;
		ATIONS AND SYMBOLS	

		LIGHT FIXTURE SCHEDULE	
TYPE	SYMBOL	LAMPS	
А		F96 T-12 75W 3500K CRI 70 ⁺	
В		ANSI SPEC S55RN-150	
С	Q	15W CF EQUAL TO GE FLE15TBX/L/835	
D	R	150W PS-25 IF	
E	\otimes		
F		ANSI CODE #4414	
G	F	FLASHING STROBE LIGHT, WP, WITH BRACKET	EDWARDS = 94R-N5 105BM, OR EQUAL

ELECTRICAL DRAWING LIST

ELECTRICAL LEGEND LIGHT FIXTURE SCHEDULE GENERAL NOTES

ELECTRICAL SITE PLAN

LIGHTING PLAN

ELECTRICAL POWER PLAN

ELECTRICAL DIAGRAMS

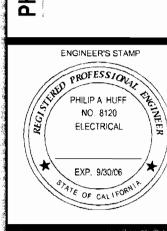
ELECTRICAL DIAGRAMS

METRON PANEL LAYOUT & EXTERNAL HOOKUP MODEL FD2, NEGATIVE OR POSITIVE GND, ENGINE DRIVEN FIRE PUMP CONTROLLER

AS - BUILT

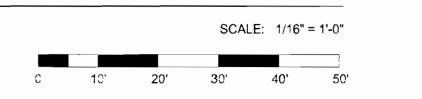
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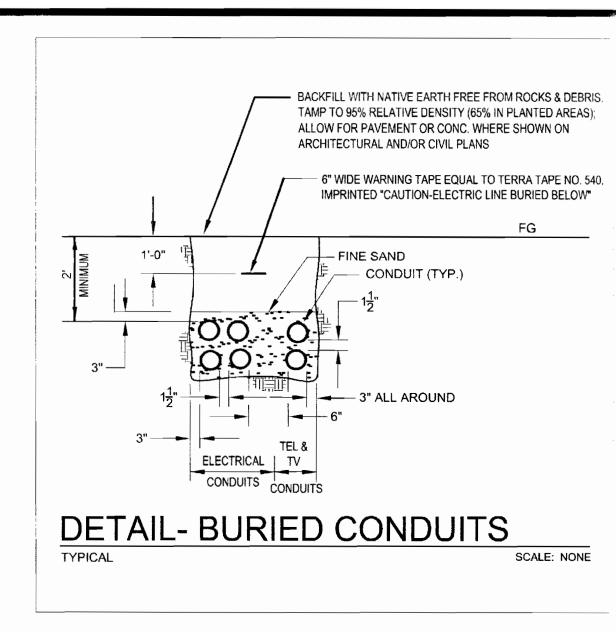
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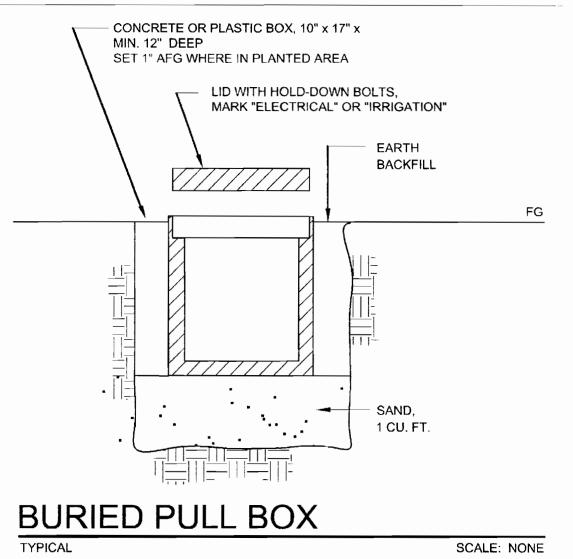


SUPPRESSION **AIRPORT** STORAGE AN VICTORVILLE

ELECTRICAL SITE PLAN







PHILIP A. HUTT OF NO. 5120

REVISIONS

SUPPRESSION VICTORVILL AND STORAGE

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5. WALL-MOUNT TYPES E & F LIGHT FIXTURES. AIM EMERGENCY LAMPHEADS TO SUIT OWNER.

4. ATTACH LIGHT FIXTURES TYPE C, D, AND G TO BUILDING AT 8'-0" AFG; COORDINATE INSTALLATION OF WATERTIGHT.
WATERTIGHT.

3. ATTACH LIGHT FIXTURES TYPE B TO BUILDING AT 10' AFG WITH BOLTS EACH CORNER; COORDINATE PROFENS INSTALLER: MAKE ATTACHMENT AND RACEWAY PENETRATION WATERTIGHT.

2. ATTACH LIGHT FIXTURES TYPE A TO PURLINS WITH SUITABLE CLIPS.

1. PROVIDE LIGHT FIXTURES AS SHOWN AND PER LIGHT FIXTURE SCHEDULE, SH. E1, COMPLETE WITH ALL REQUIRED LAMPS AND ACCESSORIES. INSTALL FIXTURES WHERE SHOWN, UNLESS OTHERWISE DIRECTED, AND PER FIXTURE MANUFACTURERS' RECOMMENDATIONS. ROUTE RACEWAYS FOR EXTERIOR FIXTURES INSIDE BUILDING.

NOTES:

FIRE STORAGE AND SUPPRESSION
VICTORVILLE AIRPORT
VICTORVILLE CA

EXP. 9/30/06

EXP. 9/30/06

ELECTRICAL

NO. 8120

PHILIP A HUFF

P

ELECTRICAL CONSULTANTS
24340 NORTH PEARL ROAD
ACAMPO, CA 95220
TEL: 209/369-5986
FAX: 209/365-1522

Fire & Pump Service Group 1513 DelAmo Blvd Carson, Ca 90746 310-223-3990

AE SNOISIVE

NOTES:

1. COORDINATE INSTALLATION OF A UFER GROUND ELECTRODE. ELECTRODE SHALL BE 20' LENGTH OF MINIMUM 1/2" REBAR IN BOTTOM OF FOOTING (SHORTER LENGTHS MAY BE WELDED TOGETHER TO MAKE UP THE 20' LENGTH), WITH 1/2" REBAR RISER WELDED THERETO AND TERMINATED UNDER SERVICE PANEL. CONCRETE-ENCASE RISER EXCEPT FOR 6" EXPOSED UNDER SERVICE PANEL.

AS AN ALTERNATIVE, UFER GROUND ELECTRODE AND RISER (GROUND ELECTRODE CONDUCTOR) SHALL BE ONE CONTINUOUS LENGTH OF BARE SOLID COPPER WIRE, SIZE AS SHOWN ON SINGLE-LINE DIAGRAM. LOCATE MINIMUM 40' OF WIRE IN BOTTOM OF FOOTING AND BOND IT TO REBAR CAGE AT MAXIMUM 10' INTERVALS. AT SERVICE PANEL, COIL 6' OF WIRE FOR CONNECTION TO SERVICE PANEL. WHERE WIRE IS NOT CONCRETE-ENCASED, PROTECT IT WITH CONDUIT.

- 2. MOUNT 480V SERVICE PANEL AND MARK IT WITH FACILITY ADDRESS PER LOCAL ELECTRIC UTILITY REQUIREMENTS EVEN THOUGH THE UTILITY WILL NOT BE INVOLVED. PROVIDE JUMPER 7. RADIO PANEL WILL BE RELOCATED BY OTHERS. PROVIDE INSTALLER WITH ALL NEEDED LINKS IN METER SOCKET AND BLANK COVER OVER SOCKET.
- 3. MOUNT PANELS A, B, AND P WITH TOPS AT 6'-3" AFF. REFER TO SINGLE-LINE DIAGRAM, SH. E5, FOR PANEL FEEDERS AND CONNECTIONS. EQUIP AND WIRE PANELS AS SHOWN, EXCEPT FOR UNAVOIDABLE CHANGES. PROVIDE PANELS WITH TYPED DIRECTORIES PER PANEL DIAGRAMS, EXCEPT REFLECTING AS-BUILT CONDITIONS. INSIDE PANELS, BUNDLE WIRES NEATLY, AND LABEL EACH UNGROUNDED CONDUCTOR WITH BRANCH CIRCUIT NUMBER ADJACENT TO ITS CONNECTION POINT.

LABEL PANELS PER SINGLE-LINE DIAGRAM (e.g. "PANEL A") AND WITH VOLTAGE AND NUMBER OF PHASES WITH ENGRAVED LAMINATED PLASTIC NAMEPLATES, 1/2" HIGH BLACK CHARACTERS ON 10. SECURITY SYSTEM, IF INSTALLED, WILL BE BY OTHERS. WHITE; ATTACH NAMEPLATES WITH RIVETS OR A TWO-COMPONENT EPOXY ADHESIVE.

5. VERIFY RECEPTACLE OUTLET LOCATIONS SHOWN ON THIS DRAWING WITH OWNER AND WITH FIRE PUMP EQUIPMENT PROVIDER JUST PRIOR TO INSTALLING OUTLET BOXES. LOCATION CHANGES SHALL BE AT NO ADDITIONAL COST TO OWNER. BOND EACH OUTLET BOX TO GROUND USING A GROUND WIRE RUN WITH CIRCUIT CONDUCTORS. BOND RECEPTACLE GROUND TERMINALS TO OUTLET BOXES WITH BONDING JUMPERS SIZED PER THE NEC, NOT MERELY BY YOKE OR SCREW CONTACT.

LABEL EACH RECEPTACLE OUTLET COVER PLATE WITH SOURCE PANEL AND BRANCH CIRCUIT NUMBER.

NOTES, CONTINUED

6. PROVIDE FIRE PUMP EQUIPMENT INSTALLER WITH ALL NEEDED ASSISTANCE IN INSTALLING AND CONNECTING HIS EQUIPMENT. PROVIDE ALL NEEDED FIELD RACEWAYS AND CONDUCTORS. WHETHER OR NOT SHOWN. CONNECT STRANDED FIELD CONDUCTORS TO SCREW TERMINALS USING PRE-INSULATED LOCKING FORK TYPE CRIMP TERMINAL LUGS. UNIQUELY LABEL EACH FIELD CONDUCTOR, EACH END, TO SUIT FIRE PUMP EQUIPMENT INSTALLER OR AS SHOWN. NEATLY BUNDLE AND SECURE FIELD WIRING INSIDE PANELS.

LABEL EACH FIRE PUMP ELECTRICAL CONNECTION BOX AND FIRE PUMP CONTROLLER ENCLOSURE (e.g. "FIRE PUMP NO. 1") WITH ENGRAVED LAMINATED PLASTIC NAMEPLATE, 3/4" HIGH WHITE CHARACTERS ON RED; ATTACH NAMEPLATES WITH RIVETS OR A TWO-COMPONENT EPOXY ADHESIVE. SIMILARLY LABEL JOCKEY PUMP MOTOR CONNECTION BOX AND PUMP CONTROLLER ENCLOSURE TO SUIT OWNER WITH ENGRAVED LAMINATED PLASTIC NAMEPLATE, EXCEPT 1/2" HIGH CHARACTERS.

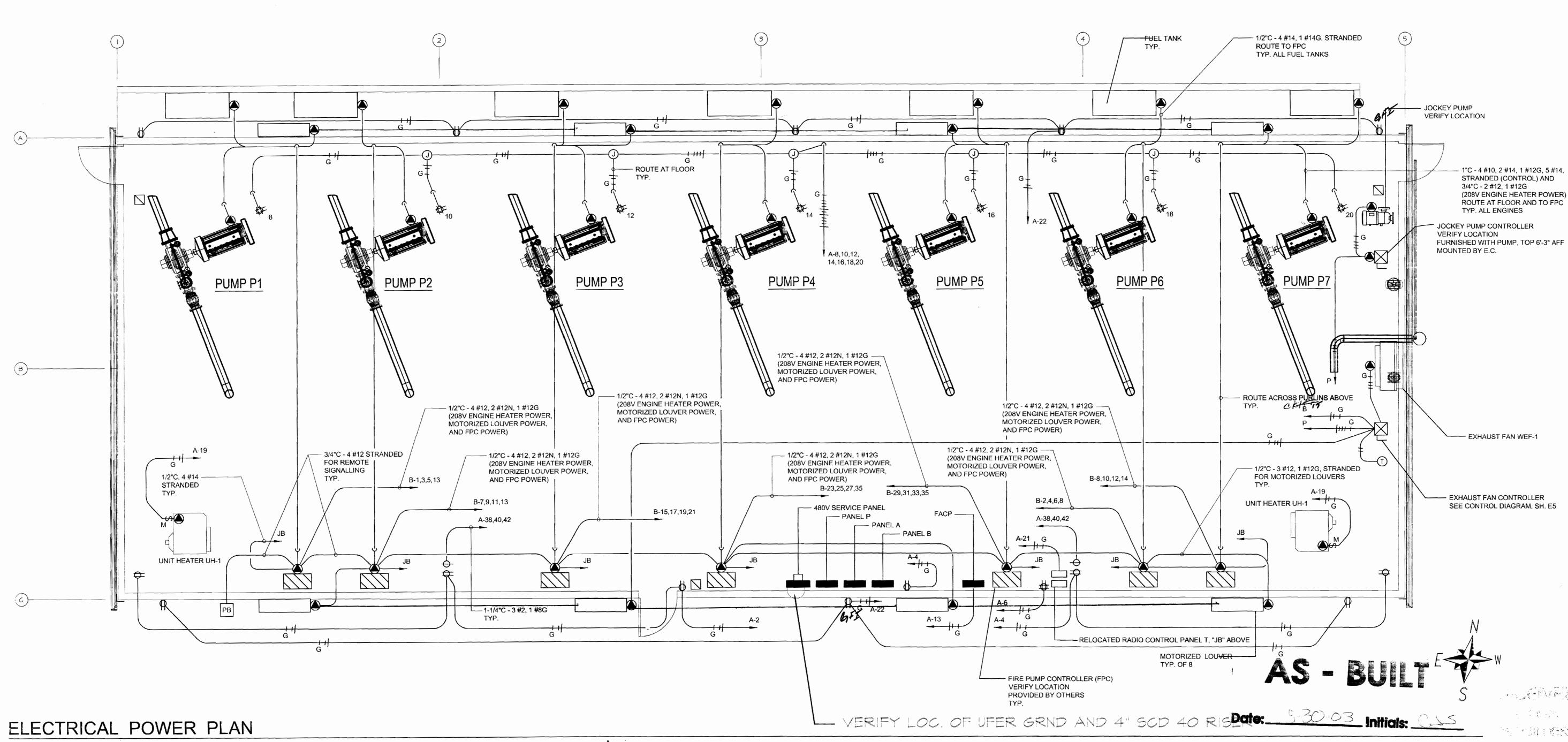
- ASSISTANCE AND WIRING.
- MOUNT MANUAL MOTOR STARTERS TO UNIT HEATERS IN LOCATIONS NOT REQUIRING REMOVAL FOR ROUTINE MAINTENANCE AND SO AS TO NOT OBSCURE NAMEPLATES OR INSTRUCTIONAL DATA. LABEL MANUAL MOTOR STARTERS WITH SOURCE PANEL AND BRANCH CIRCUIT NUMBER.
- 9. THERMOSTATS WILL BE PROVIDED BY M.C. FOR EACH THERMOSTAT, PROVIDE A SUITABLE OUTLET BOX, PROPERLY ORIENTED, WITH 3/4"C, EMPTY, RUN TO WALL EXHAUST FAN MOTOR CONTROLLER OR TO PROPER UNIT HEATER.

REVISIONS

ENGINEER'S STAMP NO. 8120

IRPORT TORVIL

· FIRE SCALE: 1/4" = 1'-0"



		PAN	EL A		
OAD	DIRECTORY	20	20	DIRECTORY	LOAD
	SPARE	20	2 20	OUTLETS	9.0A
	SPARE	3	4 20	OUTLETS	9.0A
	SPARE		6 20	OUTLETS	6.0A
	SPARE	7	8	OUTLETS	6.0A
	SPARE	20 9	20	OUTLETS	6.0A
5.0A	BUILDING EXTERIOR LIGHTING	20	12 20	OUTLETS	6.0A
	FIRE ALARM CONTROL PANEL	15 13	14 20	OUTLETS	6.0A
	TANK CATHODIC PROTECTION		16	OUTLETS	6.0A
	SPARE	20	18 20	OUTLETS	6.0A
	UNIT HEATERS	20 19	20	OUTLETS	6.0A
	PANEL "JB"	15 21	20	OUTLETS	10.5A
	SPARE	20 23	20	SPARE	10.07
		20 25	20		_
	SPARE	20 27	20	SPARE	
	SPARE	20	20	SPARE	
	SPARE		30/	SPARE	
	SPACE	31	32	SPACE	
_	SPACE		34	SPACE	
	SPACE	35	36	SPACE	
	SPACE	37	38		
	SPACE	39	40	POWER OUTLETS	
	SPACE	41	42		

225A MAIN CIRCUIT BREAKER 208/120V, 3 PHASE, 4 WIRE ENCLOSURE NEMA 12/3R, 20" WIDE COPPER BUS BARS 225A FEED-THRU LUGS (TFL) BONDED COPPER GROUND BUS BAR, 30 CIRCUIT CIRCUIT BREAKERS 10,000A IR, BOLT-ON DIRECTORY CARD UNDER PLASTIC IN METAL FRAME EQUAL TO SQUARE D CLASS 1630

		PAN	EL P		
LOAD	DIRECTORY	20	70	DIRECTORY	LOAI
5.0A	LIGHTING - BAY 1	20	2		
5.0A	LIGHTING - BAY 2	20 3	4	JOCKEY PUMP	7-1/2 HP
5.0A	LIGHTING - BAY 3	5 20	6 30		
5.0A	LIGHTING - BAY 4	20 7	8		
	SPARE (FUTURE LIGHTING - BAY 5)	20 9	10	EXHAUST FAN WEF-1	5 HF
	SPACE		12		
	SPACE		14	SPACE	
	SPACE		16	SPACE	
	SPACE		18	SPACE	
	SPACE		20/_	SPACE	
_	SPACE	2	22	SPACE	
-	SPACE	23	24/	SPACE	
	SPACE	25	26~	SPACE	
	SPACE	27	28/	SPACE	
	SPACE	29	30	SPACE	
	SPACE	31	32/	SPACE	
	SPACE		34/	SPACE	
	SPACE	35	36/	SPACE	
	SPACE	37	38	SPACE	
	SPACE	39	40	SPACE	
	SPACE	41	42/	SPACE	

250A MAIN LUGS WITH SUBFEED LUGS, ALL CU 480/277V, 3 PHASE, 4 WIRE, 30 CIRCUIT ENCLOSURE NEMA 12/3R, 20" WIDE COPPER BUS BARS BONDED COPPER GROUND BUS BAR, 30 CIRCUIT CIRCUIT BREAKERS 18,000A IR, BOLT-ON DIRECTORY CARD UNDER PLASTIC IN METAL FRAME EQUAL TO SQUARE D CLASS 1670

		PANI	EL B		
LOAD	DIRECTORY	20	20	DIRECTORY	LOAD
10A	FIRE PUMP 1 CONTROLLER	20	2 20	FIRE PUMP 6 CONTROLLER	10A
9.4A		3	4		9.44
9.4A	FIRE PUMP 1 ENGINE HEATER	5 20	6 20	FIRE PUMP 6 ENGINE HEATER	9.44
10A	FIRE PUMP 2 CONTROLLER	20 7	8 20	MOTORIZED LOUVER BAY 4	
9.4A		7 9	10 20	FIRE PUMP 7 CONTROLLER	10A
9.4A	FIRE PUMP 2 ENGINE HEATER	20	12		9.44
	MOTORIZED LOUVER BAY 1	20 13	14 20	FIRE PUMP 7 ENGINE HEATER	9.4
10A	FIRE PUMP 3 CONTROLLER	20 15	16 20	SPARE	
9. 4A		17	18		
9.4A	FIRE PUMP 3 ENGINE HEATER	19	20	SPARE	
:	MOTORIZED LOUVER BAY 2	20 21	20	SPARE	
10A	FIRE PUMP 4 CONTROLLER	20 23	24		
9.4A		20 25	26	SPARE	
9.4A	FIRE PUMP 4 ENGINE HEATER	27	28	SPARE	
10A	FIRE PUMP 5 CONTROLLER	20 29	30	SPARE	
9.4A		20	32	SPARE	
9.4A	FIRE PUMP 5 ENGINE HEATER		34	SPARE	
	MOTORIZED LOUVER BAY 3	20 35	36	SPARE	
	SPACE		38/	SPACE	
	SPACE	39	40/	SPACE	
	SPACE	4	42/	SPACE	

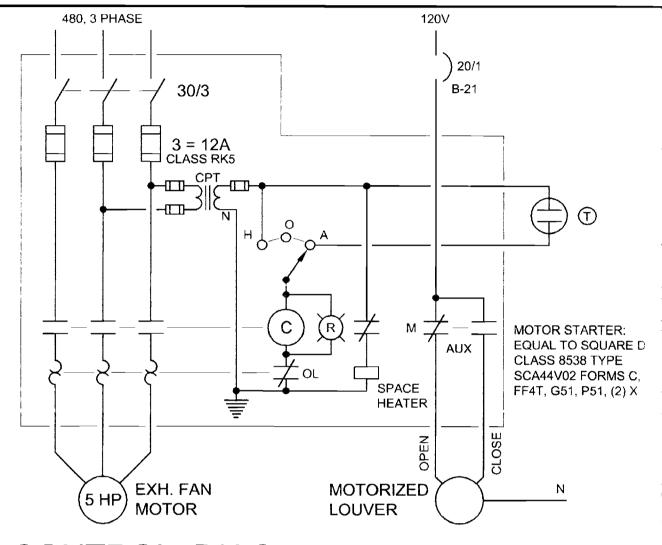
225A MAIN LUGS 208/120V, 3 PHASE, 4 WIRE ENCLOSURE NEMA 12/3R, 20" WIDE COPPER BUS BARS BONDED COPPER GROUND BUS BAR, 30 CIRCUIT CIRCUIT BREAKERS 10,000A IR, BOLT-ON DIRECTORY CARD UNDER PLASTIC IN METAL FRAME EQUAL TO SQUARE D CLASS 1630

I OAD CALCIII ATIONO

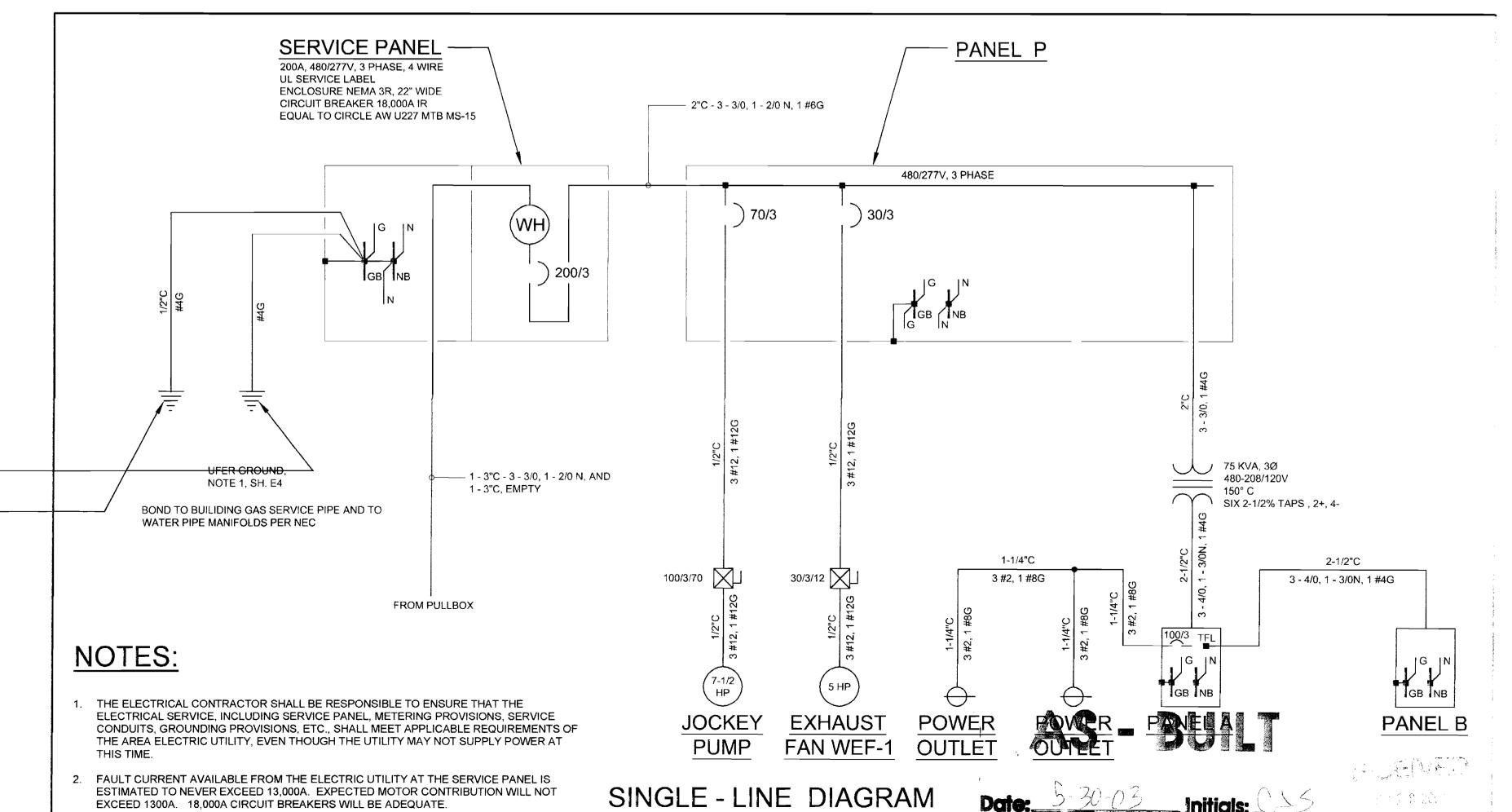
LOAD CALCULATION	<u> SNC</u>			
PANEL A	<u>ΦΑ</u>	<u>ФВ</u>	<u>ΦC</u>	N
EXTERIOR LIGHTING:			15.0A x 1.25	15.0A x 1.25
FACP: USE	6.0A			
TANK CATHODIC PROTECTION: USE		6.0A		
POWER OUTLETS: PRIMARILY FOR ONE WELDE	ER, USE 50A 50.0	50.0	50.0	
OUTLETS:	27.0	27.0	34.5	34.5
PANEL B:	<u>86.4</u> 169.4A	<u>87.0</u> 170.0A	<u>85.8</u> 189.1A	40.0 93.3A
USE 225A PANEL, 225A MAIN CB, 225A FEED, 4/0 NEUTRAL: 93.3 + (225 – 189.1) = 129.2A USE 3/0				
PANEL B				
FIRE PUMP CONTROLS: est. 10A	10.0A x 3	10.0A x 4	10.0A x 2	10.0 x 4
ENGINE HEATERS: 3000W @ 240V, 9.4A @ 208V	9.4 x 6 86.4A	9.4 x 5 87.0A	<u>9.4 x</u> 7 85.8A	40.0A
USE 225A PANEL, 225A FEED, 4/0 CU (230A @ 75 ⁰ NEUTRAL: 40.0 + (225 – 87.0) = 178.0A USE 3/0		^O C)		
TRANSFORMER: LOAD (ENGINES NOT RUNNING): (169.4 - LOAD (ENGINES RUNNING): (169.4 - [50.4 - [50.4 + 7]) x 0.120 = 25.8 kVA USE 75 kVA 63.0/(0.480?3) = 75.8A @ 480 SECONDARY: 75/(0.208?3) = 208.3A 208 PRIMARY: 75/(0.480?3) = 90.2A 90.2 x 2.5	0 + 9.4 x 5] + 17 0V 25.8/(0.48?3 .3 x 1.25 = 260.4	0.0 - [50.0 + 9.4 3) = 31.0A 4A 225A PANEI	x 5] + 189.1 - [15 L A MAIN CB <i>ok</i>	.0 × 0.25 + 50.0 +
PANEL P AND SERVICE PANEL (ENGINES NOT RI	JNNING)			
TRANSFORMER:	75.8A	75.8A	75.8A	
JOCKEY PUMP: 7-1/2 HP, 460V, 3Φ, USE NEC 11, MCA: 11.0 x 1.25 = 13.8A USE #12 CU (25 MOCP & CB: LOCKED ROTOR CURRENT	5A @ 60 ⁰ C)	A FUSES & CB 70.0	70.0	

EXHAUST FAN WEF-1: 5 HP, 208-230/460V, 3Φ, USE NEC 7.6A 7.6 MCA: $7.6 \times 1.25 = 9.5 \text{A}$ USE #12 CU (25A @ 60° C) MOCP: 7.6 x 1.75 = 13.3A USE 12A FUSE CB: $7.6 \times 2.5 + (25 - 13.3) = 19.0 + 11.7 = 30.7A$ USE 30A 163.8A 163.8A PANEL P AND SERVICE PANEL (ENGINES RUNNING) TRANSFORMER: 31.0A 31.0A JOCKEY PUMP: 7-1/2 HP, 460V, 3Φ, NOT RUNNING ------- - -EXHAUST FAN WEF-1: 5 HP, 460V, 3Φ, USE 30A CB 61.0A 61.0A

USE 200A SERVICE PANEL AND 250A PANEL P, 200A MAIN CIRCUIT BREAKER, 3/0 CU (200A @ 75° C) NEUTRAL: USE 2/0 CU (175A @ 75° C)



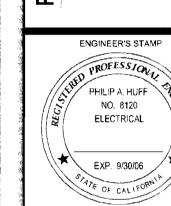
CONTROL DIAGRAM - EXH. FAN WEF-1



REVISIONS

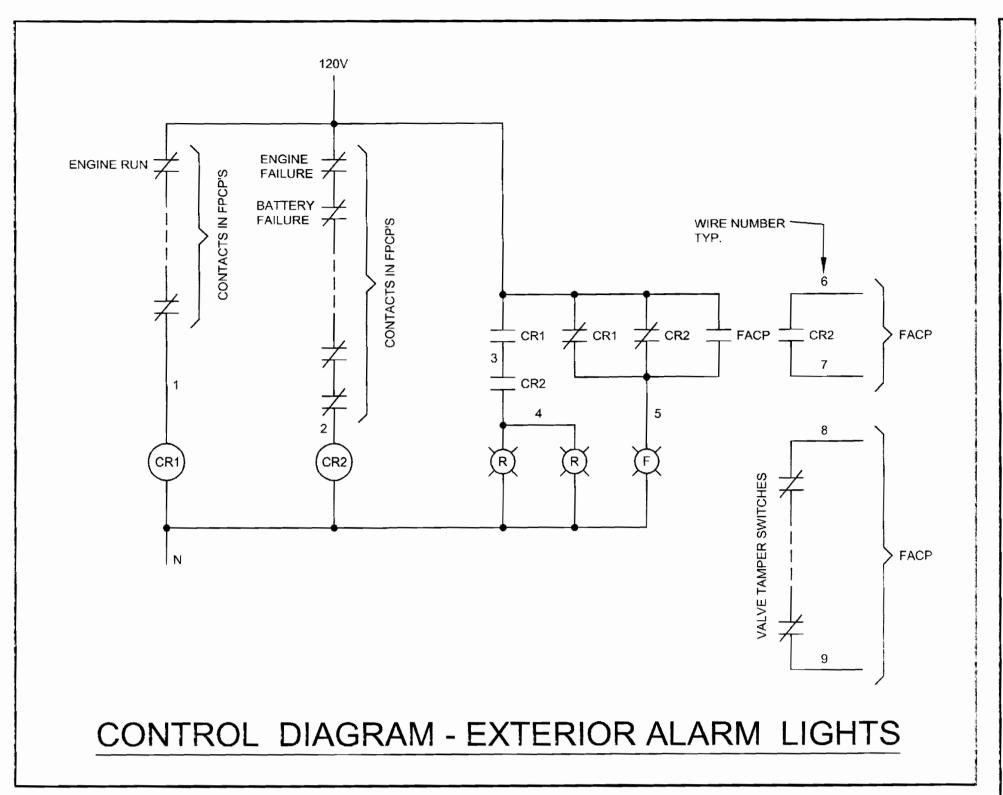
& Pump 1513 Del/Carson, (310-22)

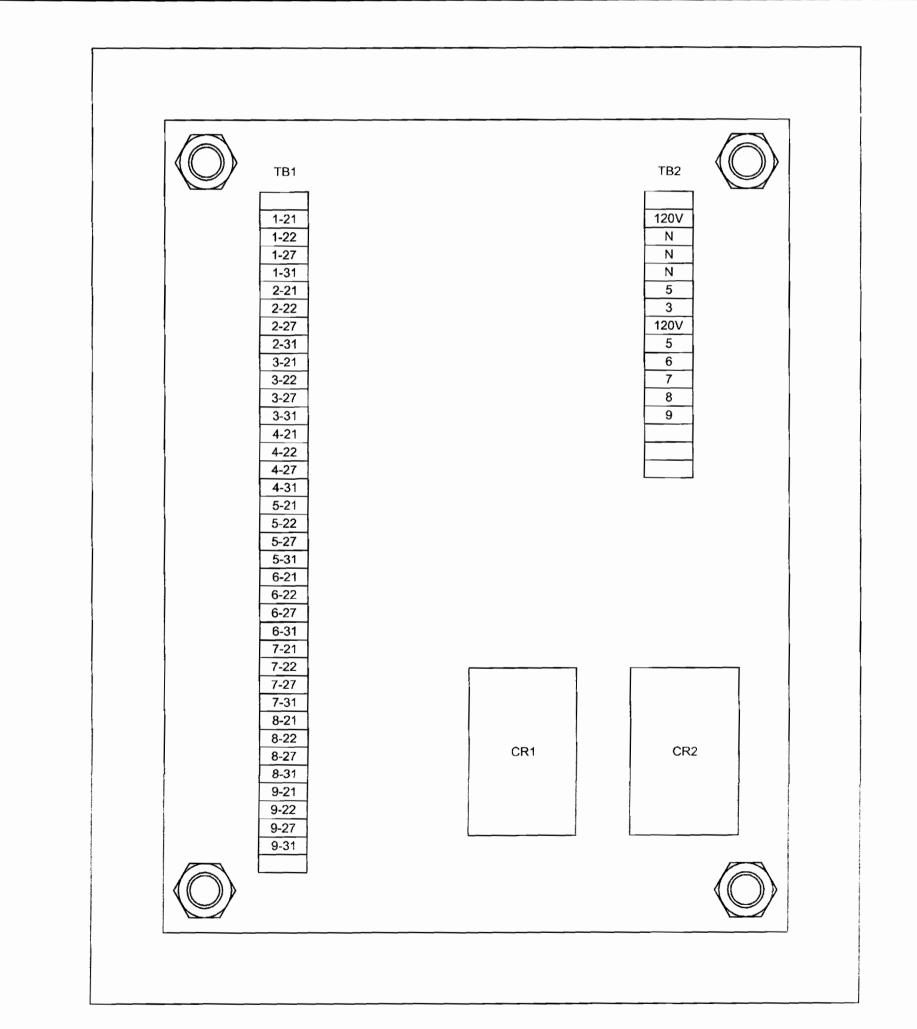
PHILIP HUFF I



SUPPRE AIRPORT VICTORVIL VICTORVIL STORAGE

02/11/2003 05:25:09

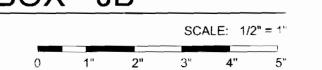


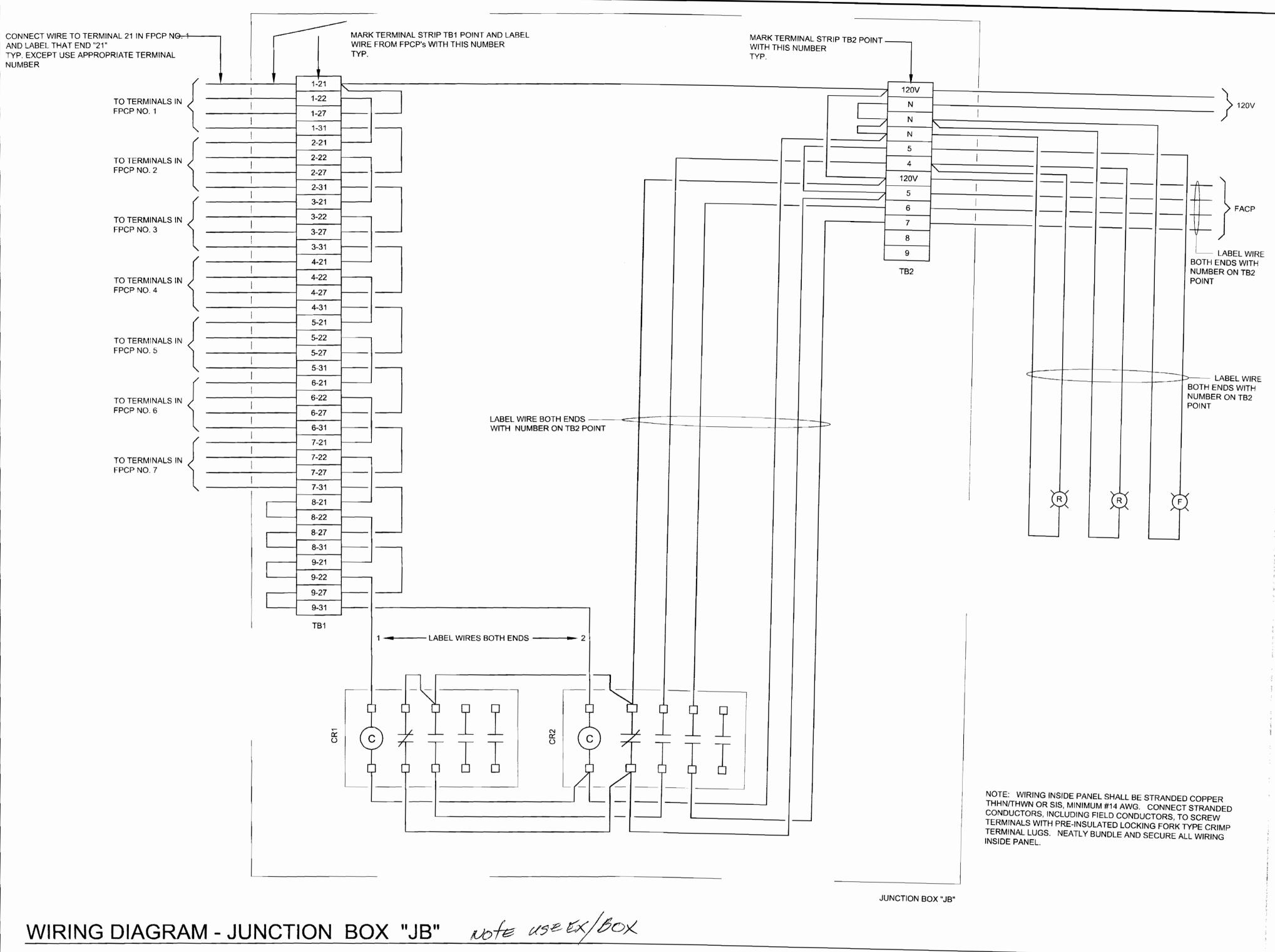


ENCLOSURE: EQUAL TO CIRCLE AW CATALOG NUMBER 20167-12CHSC CR1, CR2: CONTROL RELAY EQUAL TO SQUARE D CLASS 8501 TYPE XO40V02 TB1, TB2: TERMINAL BLOCK, LENGTH AS REQUIRED, EQUAL TO SQUARE D CLASS 9080 TYPE GA6 WITH END BARRIERS AND MARKING STRIP

NOTE: LABEL ENCLOSURE "JB" WITH ENGRAVED LAMINATED NAMEPLATE, 3/4" HIGH WHITE CHARACTERS ON RED; ATTACH NAMEPLATE WITH RIVETS OR A TWO-COMPONENT EPOXY ADHESIVE.

INTERIOR ELEVATION - JUNCTION BOX "JB"





AS - BU[

Date: 5-30-03 Initions: CSS

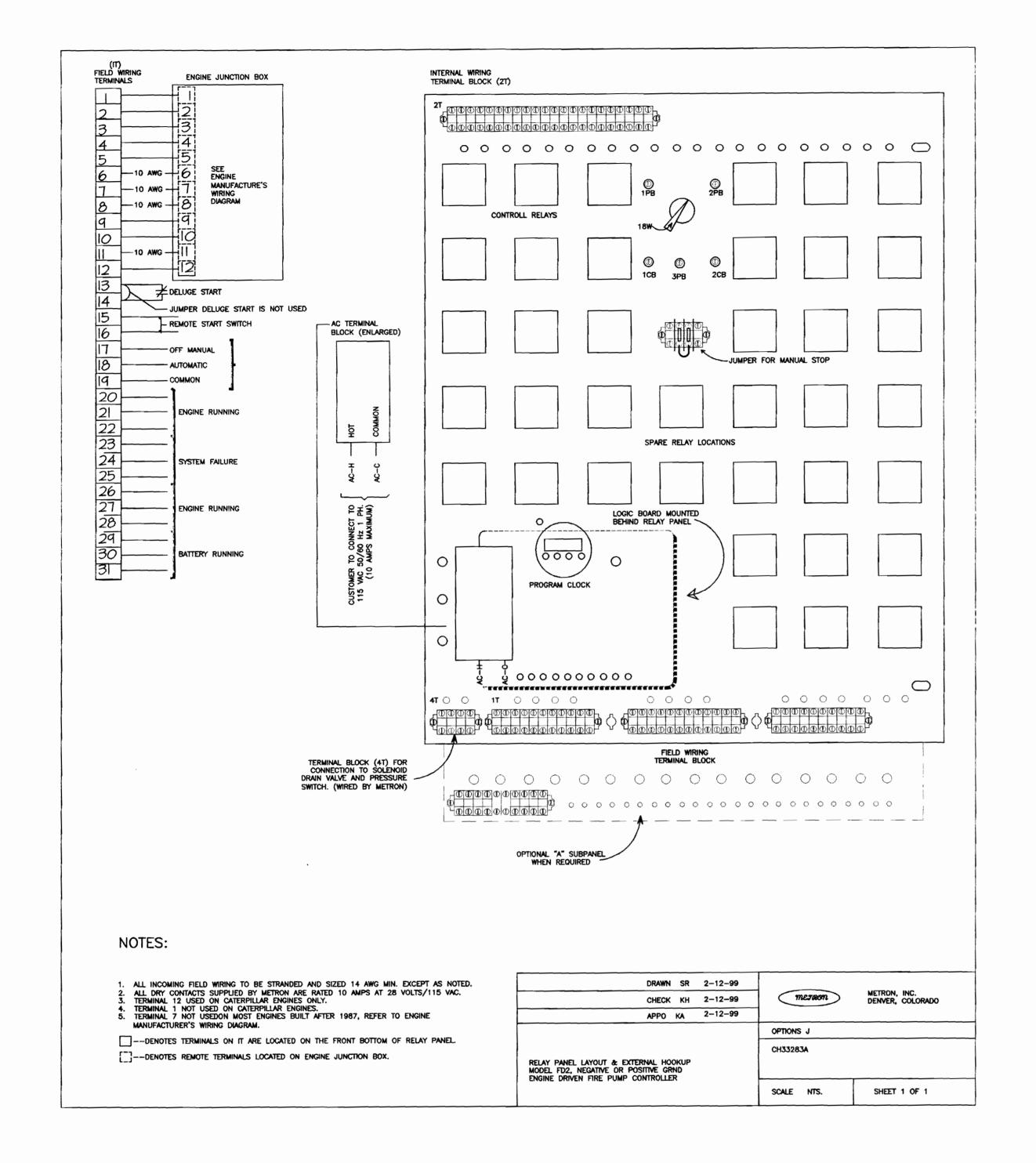
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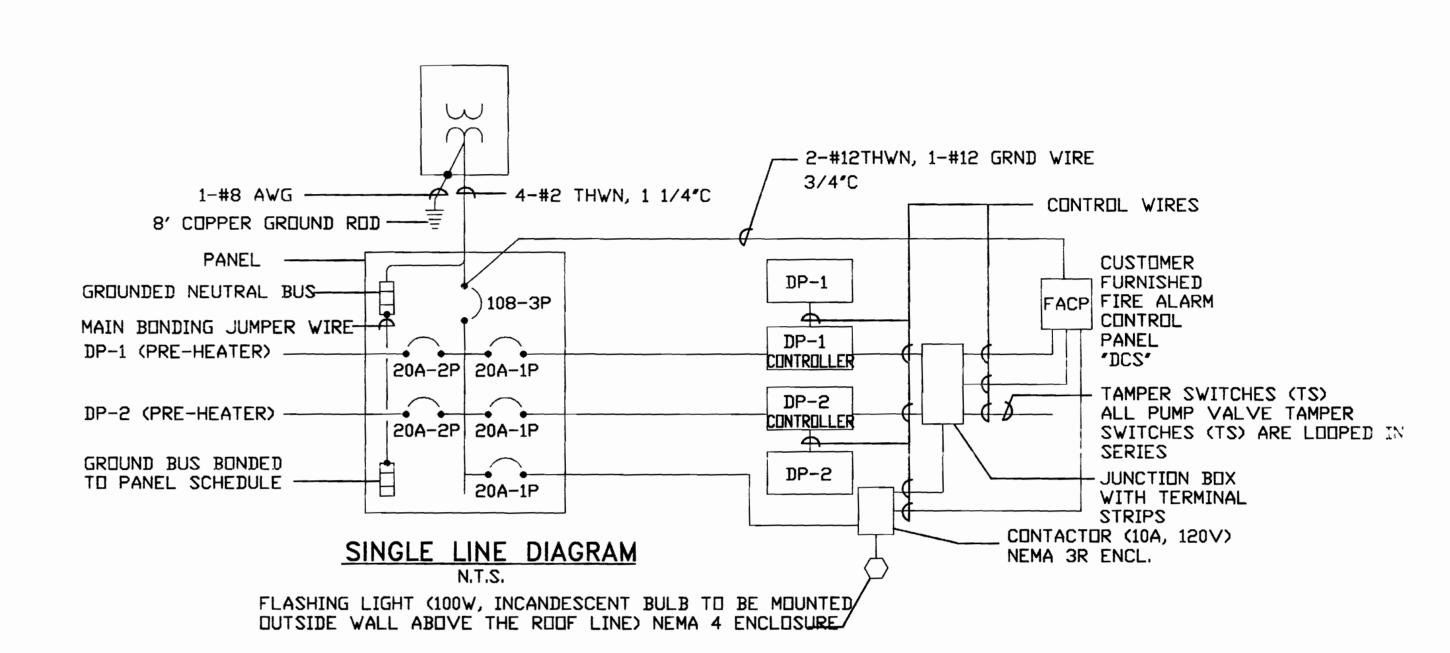
ELECTRICAL

SUPPRESSION

STORAGE

REVISIONS





AS - BUILT

Date: 53003 Initials: 05

I FULL WELL

PUMP & ST DELUGE SY VICTORVILLE VICTORVILLE 05:27:17

SCALE: 1/4"=1'-0" 002-VICTORVILLE

No. CO44590 Exp. 3-31-06

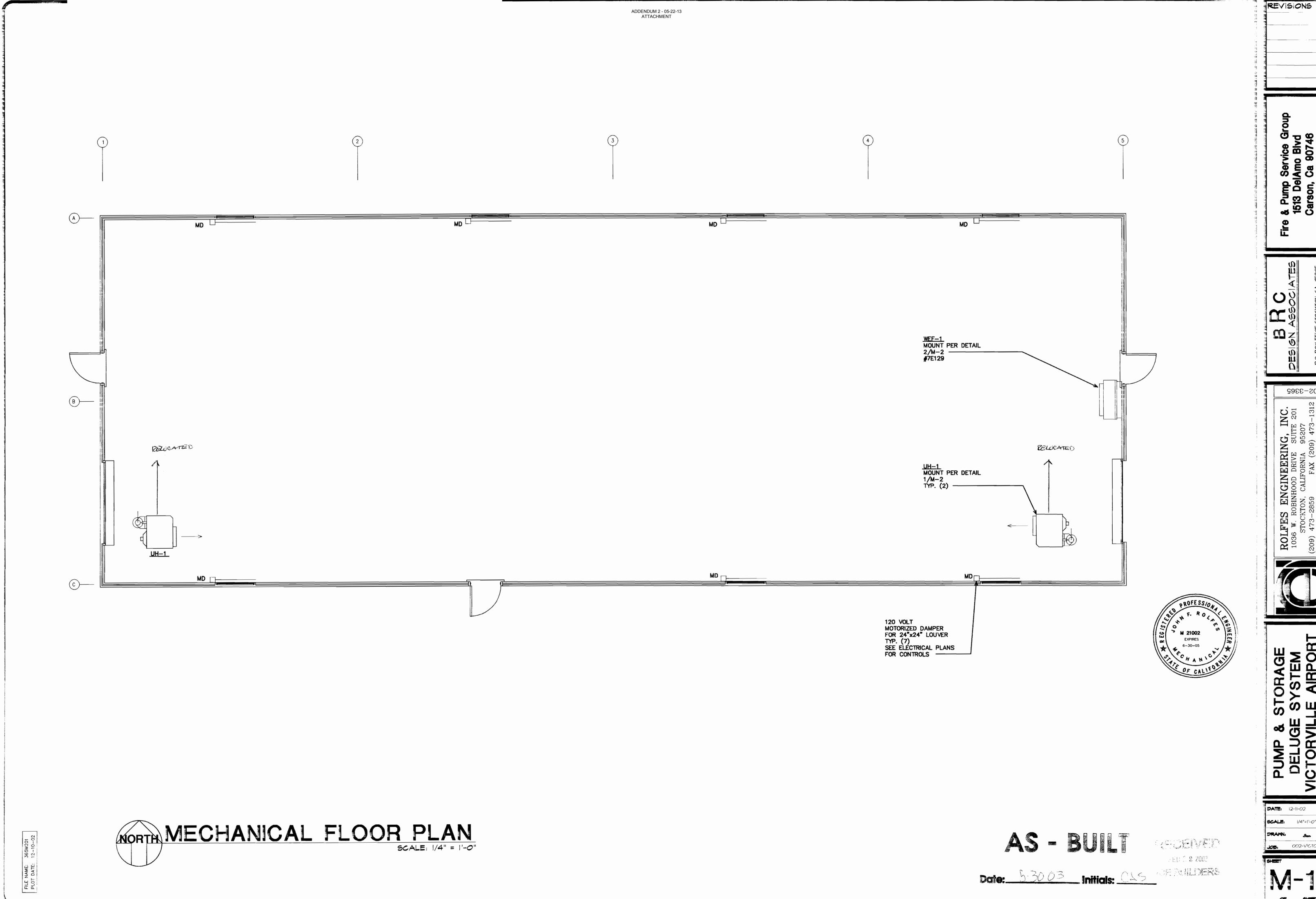
REVISIONS

Service Group MAmo Blvd Ca 90746 LIC. NO. 78694

& Pump 1513 Del/ Carson, (23-3990

mz

02/11/2003

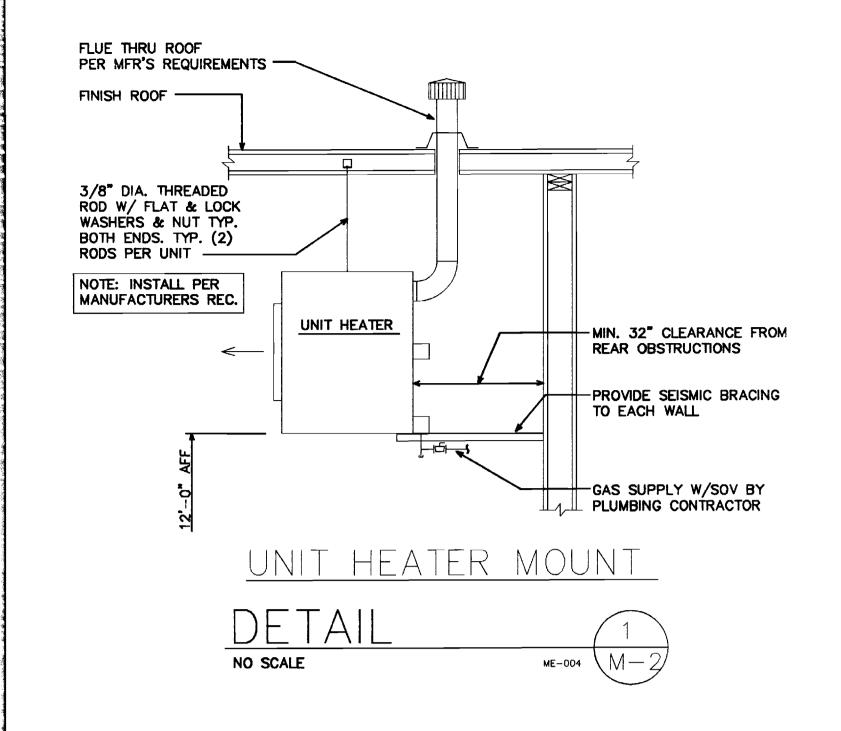


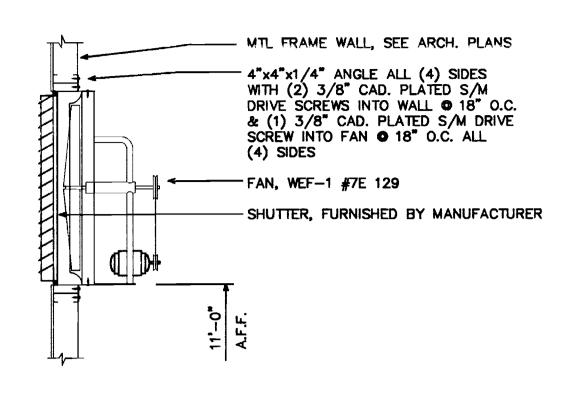
ROLFES ENGINEERING, II
1036 W. ROBINHOOD DRIVE SUITE
STOCKTON, CALIFORNIA 95207
(209) 473-2859 FAX (209) 473CALIF. P.E. #21002 NEVADA P.E #
Copyright © 2002 Rolfes Engineering, Inc.



002-VICTORVILLE

02/11/2003 05:58:21 AM

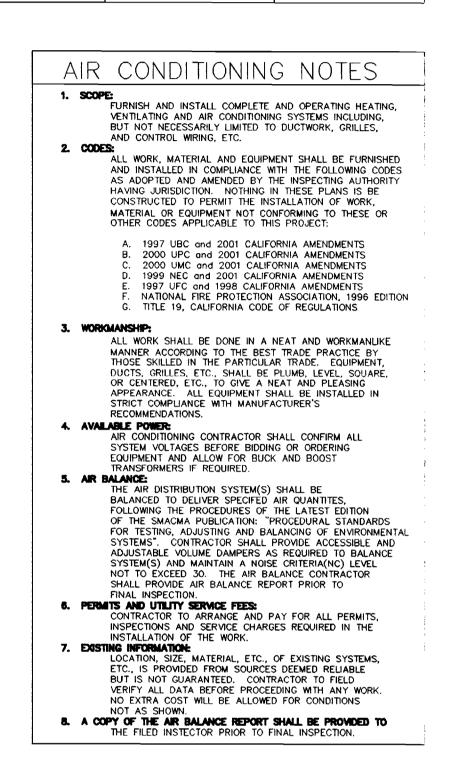




WEF-1	WALL	MOU	NT
DETAIL			2
NO SCALE		MX-011	M-2

MARK	MAKE & MODEL	DESCRIPTION	CAPACITY		ELECTRICAL CHARACTERISTIC	REMARKS/OPR W
WEF-1	DAYTON 7E129	WALL EXHAUST FAN	20500 CFM .25" SP 820 RPM, 39.0 SONES	3.0	HP 208 3 300#	
UH-1	REZNOR UDAS-200	UNIT HEATER	200 MBH INPUT, 166 MBH OUTPUT 200 MBH INPUT, 166 MBH OUTPUT	4.6 1.0	FLA 115 1 15.0 M FLA 24	OCP 190#
			•			
					-	

ME	CHANICAL LEGEND		
SYMBOL	ITEM	ABBREV.	
	RECTANGULAR DUCT SIZE NET INSIDE DIMENSION(INCHES)	T	
<u> </u>	DUCT WITH 1" ACOUSTIC LINING NET INSIDE DIMENSION(INCHES)		
	SUPPLY AIR DUCT SECTION OUTSIDE AIR DUCT SECTION	S.A. 0.S.A.	
	RETURN AIR DUCT SECTION	R.A.	
	V.D. – VOLUME DAMPER	V.D.	
FD VD	F.D FIRE DAMPER AIR TURNING VANES	F.D.	
***	AIR EXTRACTOR	_	
┾ ■→	FLEXIBLE DUCT CONNECTIONS	F.C.	
€_6″ ф 3	ROUND SUPPLY AND INSIDE DIAMETER		
€ 6 * Φ 3	ROUND RETURN AND INSIDE DIAMETER		
→ 370 f CS−4 12x12	FIRST LETTER CEILING LOCATION: FLOOR WALL SECOND LETTER SUPPLY SERVICE: RETURN EXHAUST NUMBER-TYPE: SEE SCHED.		
370 € CR-1 12x12	370 € - CUBIC FEET PER MINUTE 12×12 - NECK SIZE - INCHES		
<u> </u>	THERMOSTAT , UNIT No.	TSTAT	
म म द	CLOCK BYPASS, NITESTAT, CLOCK		
_	GALVANIZED SHEET METAL	S/M	
_	ABOVE FINISH FLOOR	AFF	
	NEW	(N)	
	EXISTING (SHOWN LIGHT)	(E)	
	EXISTING TO BE REMOVED(SHOWN DASHED)	(E)	
P.O.C.	POINT OF CONNECTION	P.O.C.	
⊕ C.O.P.	CUT OFF POINT	C.O.P.	





AS - BUILT

Date: 530-03 Initials: 055

K-CEMED CERUIDERS

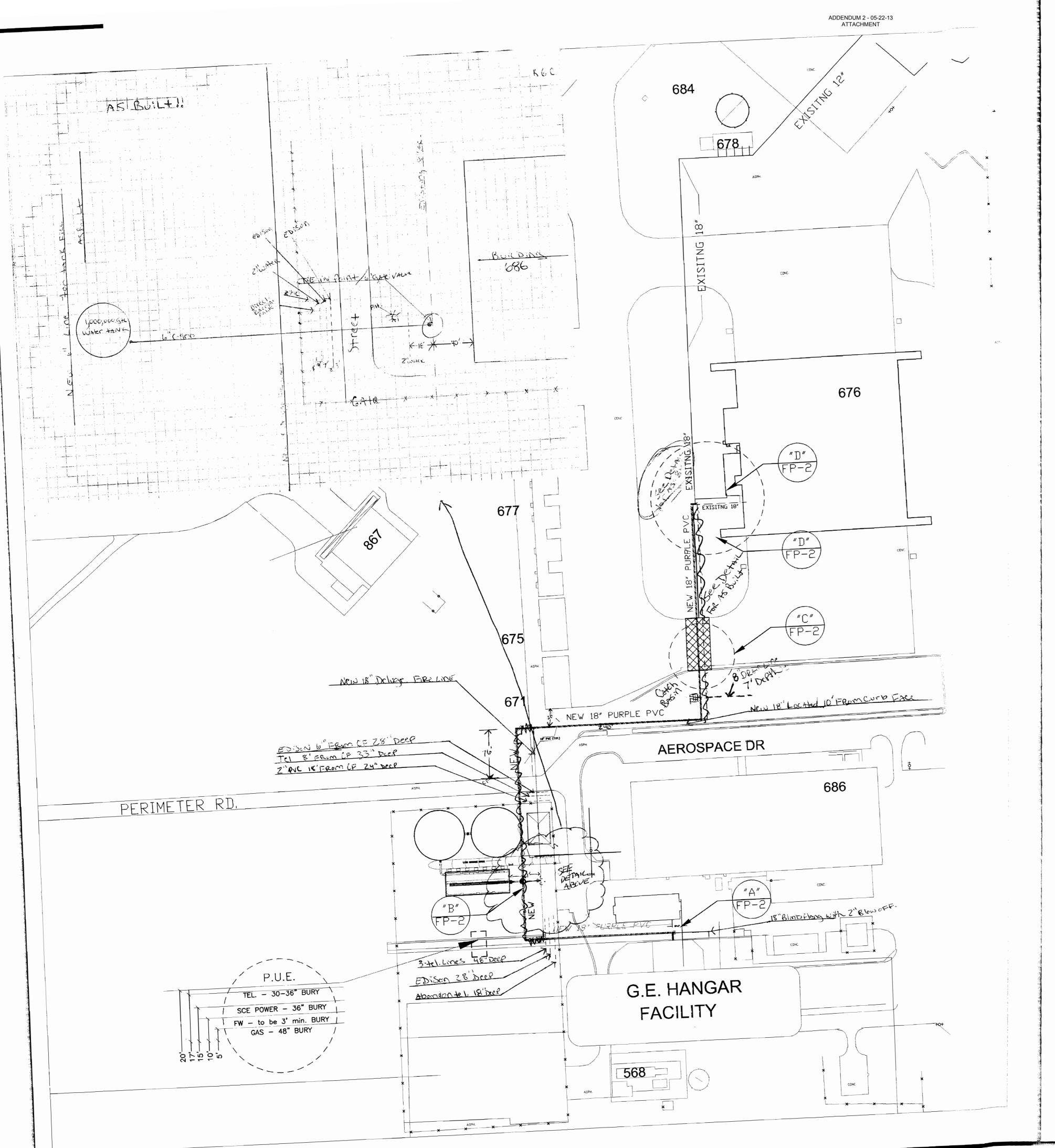
PUMP & STORAGE DELUGE SYSTEM VICTORVILLE AIRPORT VICTORVILLE, CA. 02/11/2003 06:00:06 AM 002-VICTORVILLE

REVISIONS

Service (IAmo Blvd Ca 90746 LIC. NO.

3988-S0

ROLFES ENGINEERING, INC.
1036 W. ROBINHOOD DRIVE SUITE 201
STOCKTON, CALIFORNIA 95207
(209) 473-2859 FAX (209) 473-1312
CALIF. P.E. #21002 NEVADA P.E #7033
COpyright © 2002 Rolfes Engineering. Inc.



GENERAL NOTES

I) INSTALLATION & TESTING PER 2002 NFPA 13, 24, OSHA/CALOSHA & CALTRANS STDS.

2) PIPE TO BE C-900 235 PSI PURPLE PVC OR MARKED FOR RECLAIMED WATER PER CAL TRANS AND CA WATER CODE 1116815 FOR RECYCLED WATER STANDARDS.

3) USE DI FLANGED FITTINGS FROM THE PUMP HOUSE TO THE BULL HEAD TEE IN THE STREET. ALL OTHER FITTING TO BE D.I.

4) PROVIDE NEW 6" PVC PIPING, ROAD BOX, HOT TAP AND U.G. TO CONNECT TO IM GAL. TANK VALVE. ROAD BOX COVER TO IDENTIFY SERVICE. USE APPROVED BACK FLOW PREVENTER.

5) STOCKPILE IN ONE PLACE AND OR COORDINATED WITH OWNERS AGENT & DISPOSE OF JOBSITE SPOILS OFFSITE.

6) REPLACE ASPHALT. AFTER THREE WEEKS, REFILL, RECOMPACT AND SEAL EDGES TO BRING ASPHALT LEVEL WITH EXISTING IF REQUIRED BY OWNERS AGENT. RECYCLED ASPHALT MAY BE USED.

7) USE NFPA FORMS FOR TESTING REPORTS.

8) ALL UNFINISHED WORK IN ACTIVE ROADWAYS MUST BE PLATED AND HAVE ROAD CONTROL.

9) MAINTAIN ADEQUATE PASSAGE FOR DAILY FLOW OF TRAFFIC.

10) MIN. 3' BURY AND TRACE W/PURPLE METALIC TAPE AND WIRE 12" ABOVE PIPE.

II) ALL MATERIALS TO BE APPROVED PRIOR TO INSTALLATION BY OWNERS AGENT

12) INSTALL CONDUIT AND PULL BOXES IN SAME DITCH WITH NEW FW PIPING.

13) TRAFFIC CONTROL PLAN TO BE FILED BY CONTRACTOR WITH AUTHORITY HAVING JURISDICTION.

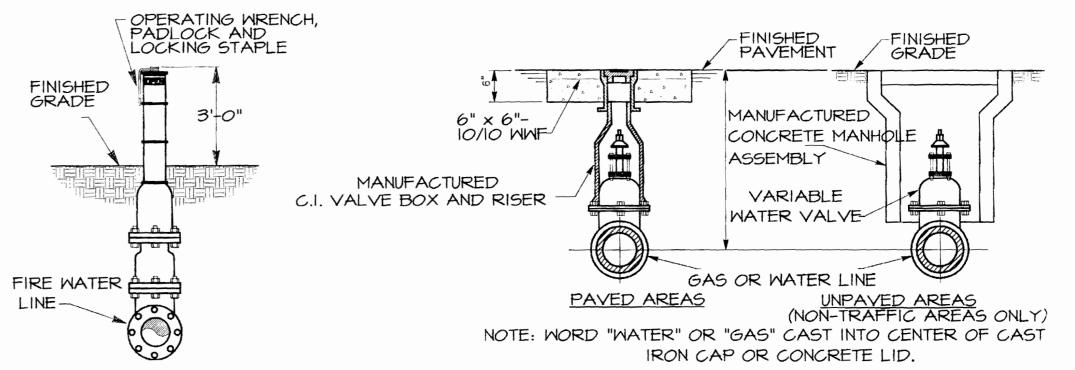
14) CONTRACTOR TO VERIFY THRUST BLOCKS ACCORDING TO EXISITNG SOILS CONDITIONS. PROVIDE CALCULATIONS PROVING LOADS TO MEET ADEQUATE SIZING. SUBMIT TO OWNERS AGENT.

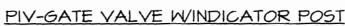
15) FIELD LOK GASKETS (UL) MAY BE SUBSTUTED FOR THRUST BLOCKS

16) USE 18" PRATT GROUND HOG UL W/GROUND LEVEL POSITION INDICATOR (TYP.)

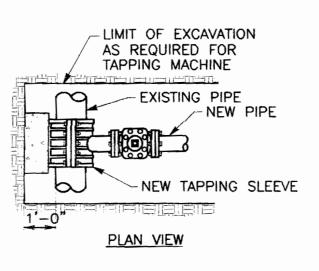
17) USE 18" X 18" X 20" DI FLANGED FITTING

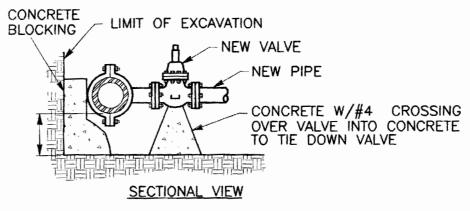
18) USE DI FLANGED DI FITTINGS



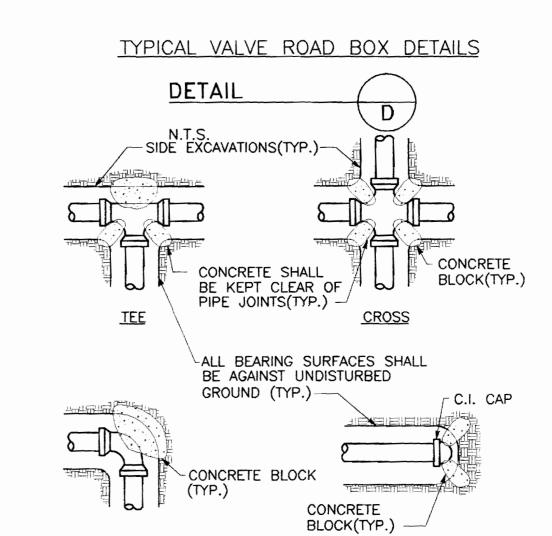


DETAIL C -





UL TAPPING SLEEVE AND VALVE
INSTALLATION DETAIL



			REAS EACH DIRECTION ST IN SQUARE FEET	
PIPE SIZE	TEES & DEADENDS	90° ELBOWS	45° ELBOW CROSSES IN DIRECTION OF FLOW	22-1/2* ELBOWS
6"	4.0	5.5	3.0	2.0
8"	7.0	9.5	5.0	3.0
10"	9.5	13.5	7.0	4.0
12"	13.5	19.0	10.0	5.0
14"	18.0	23.5	14.0	7.0
16"	23.0	33.0	18.0	9.0

ELBOW

* VERIFY BEARING SURFACE AREA OF THRUST W/OWNERS AGENT BEFORE INSTALLATION

TYPICAL THRUST BLOCK INSTALLATION DETAIL

DEAD END

Fire & Pump Service Group Carson, Ca 90746 10-223-3990 LIC. NO. 786946

BRC DESIGN ASSOCIATES P.O. BOX 55105 STOCKTON, CA 45205

FEB 12 2000 B

PUMP & STORAGE DELUGE SYSTEM ICTORVILLE AIRPORT VICTORVILLE, CA.

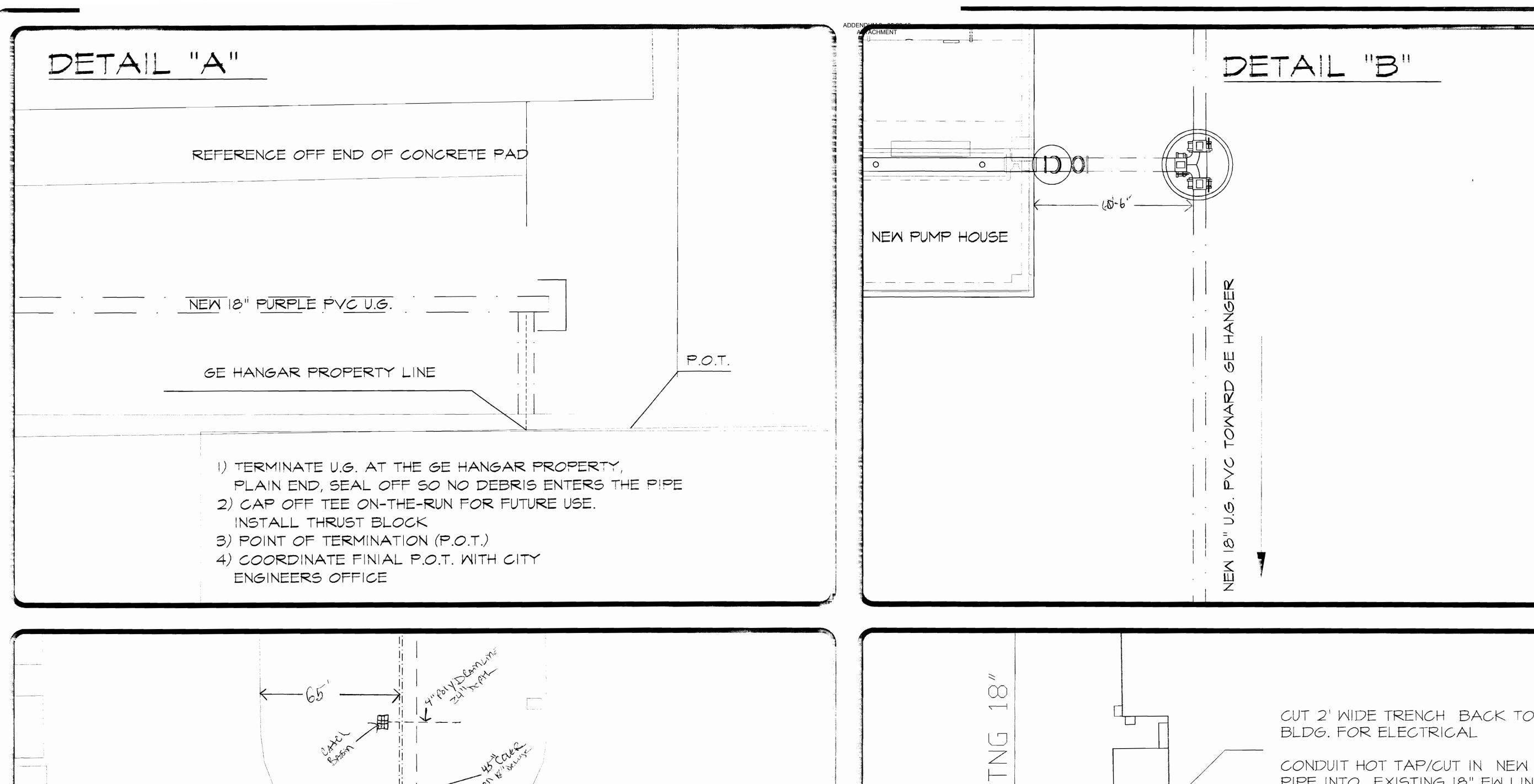
DATE: 12-11-02

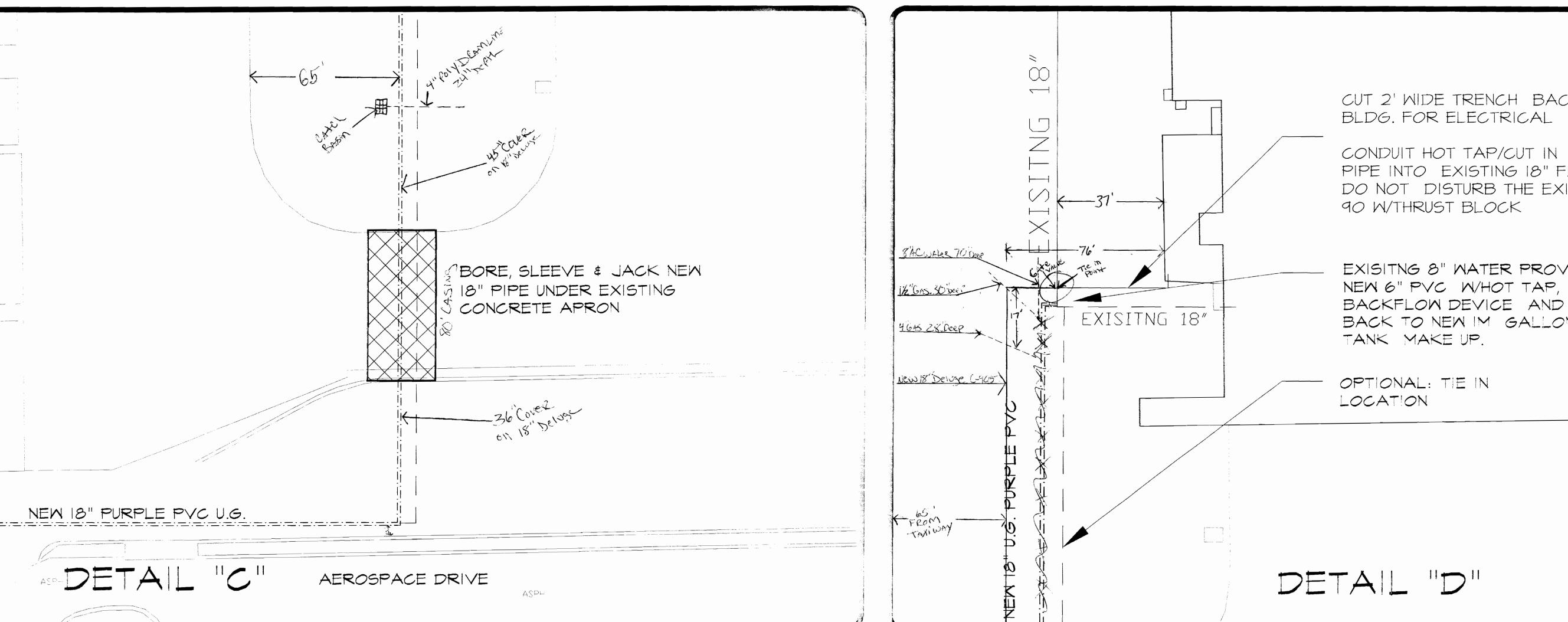
SCALE: 1/4"=1'-0"

DRAWN: William E. Rom

JOB: 002-VICTORVILLE

11/2003 06:19:12



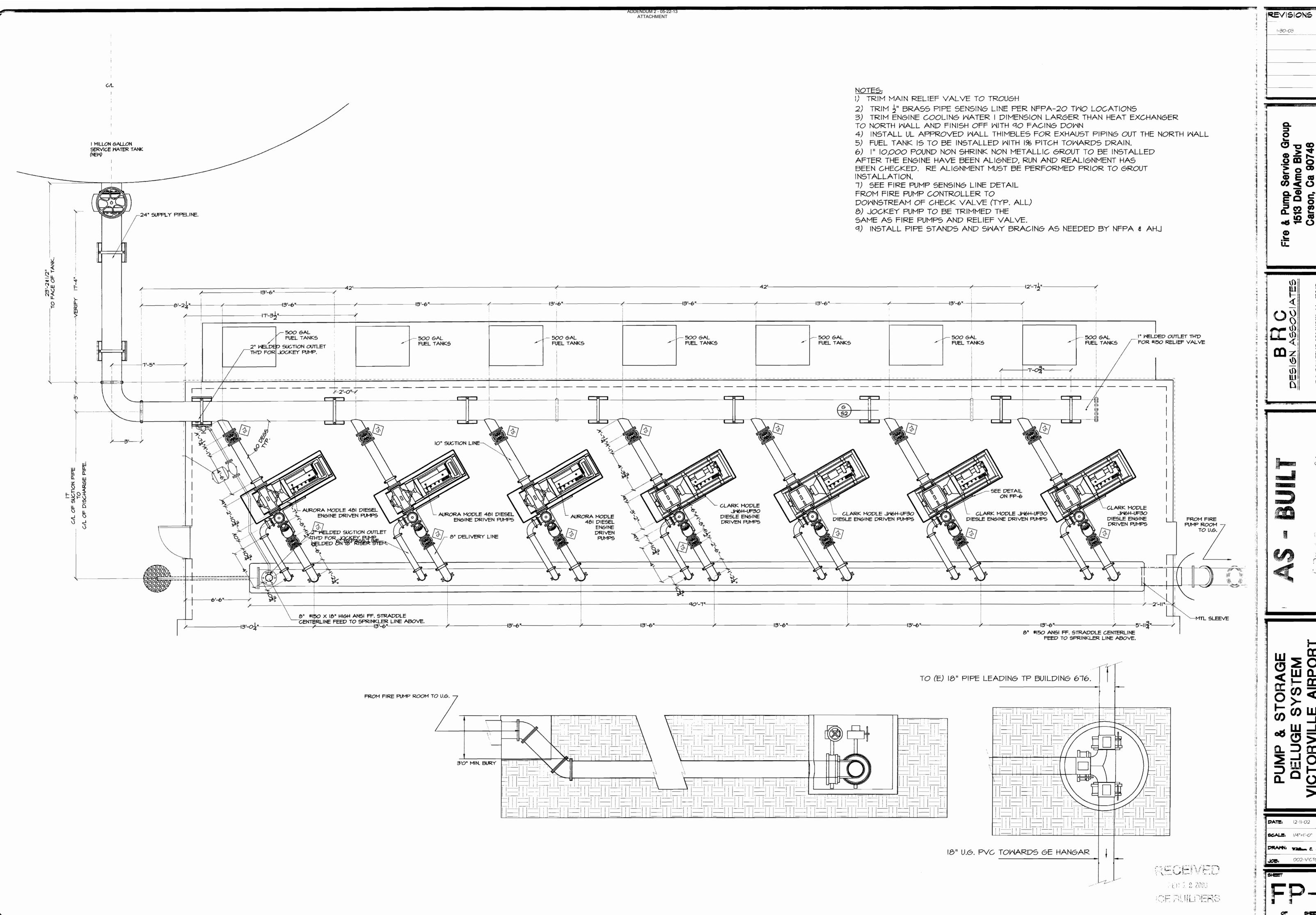


CUT 2' WIDE TRENCH BACK TO CONDUIT HOT TAP/CUT IN NEW PIPE INTO EXISTING 18" FW LINE. DO NOT DISTURB THE EXISITNG EXISITNG 8" WATER PROVIDE BACKFLOW DEVICE AND U.G. BACK TO NEW IM GALLON ESTATE OF THE STATE OF THE STAT YER 1 2 2012 TOR SUILDERS

002-VICTORVILLE

ED-2

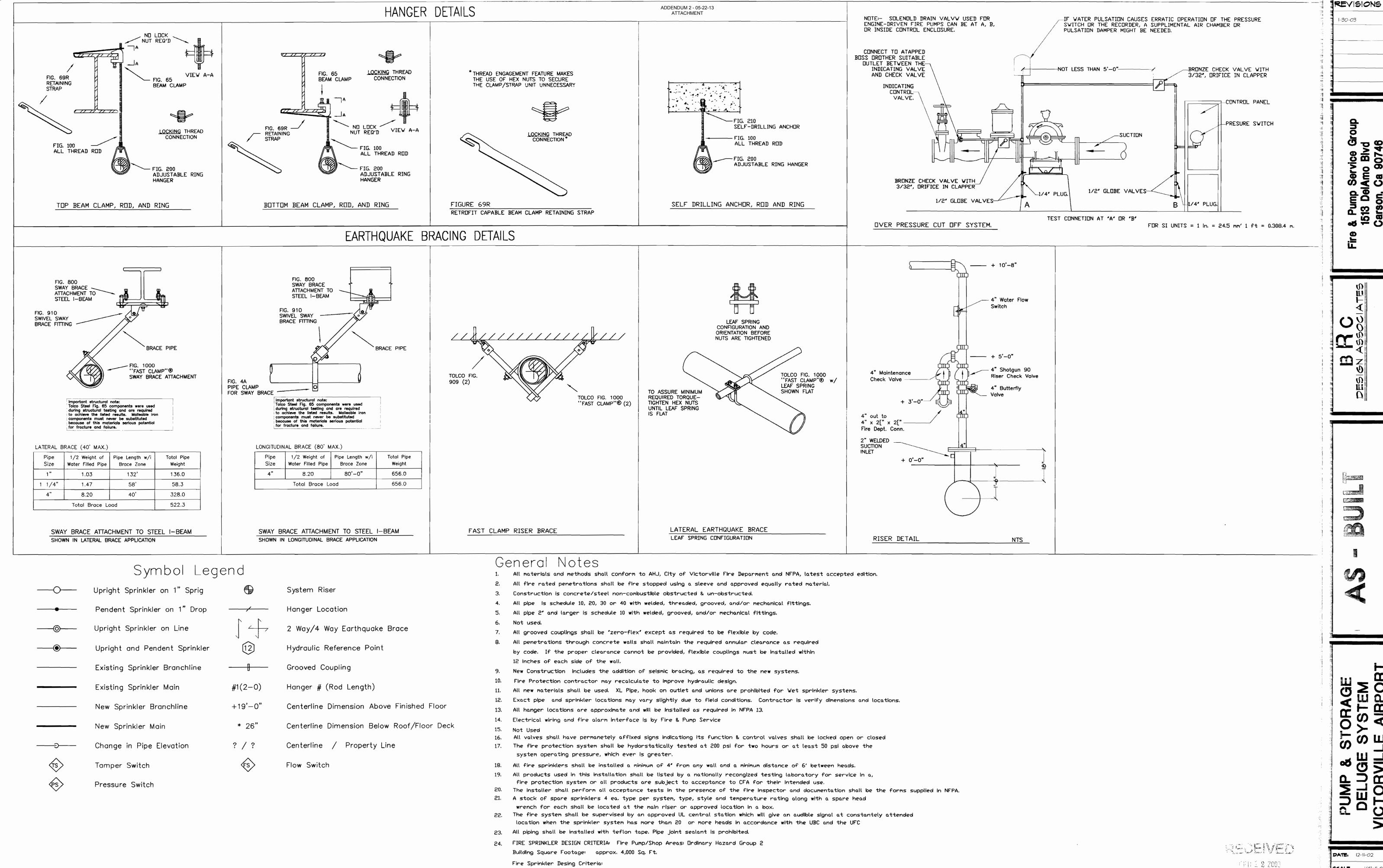
REVISIONS



PUMP & STORAGE
DELUGE SYSTEM
VICTORVILLE AIRPORT
VICTORVILLE, CA.

DATE: 12-11-02 SCALE: 1/4"=1'-0" 002-VICTORVILLE

06:31:32



Hydraulic Design Density - Office Space .2 gpm @ 130 Sq.Ft.

Penetrations of rated corridors, walls or assemblies? __Yes___No

Office: Manufacturer: Viking Microfast Model ____1/2'____ Orifice Size ___5.6__ K-Factor __155_ Temp. __Std._ Type Response

Celling construction typer: unobstructed

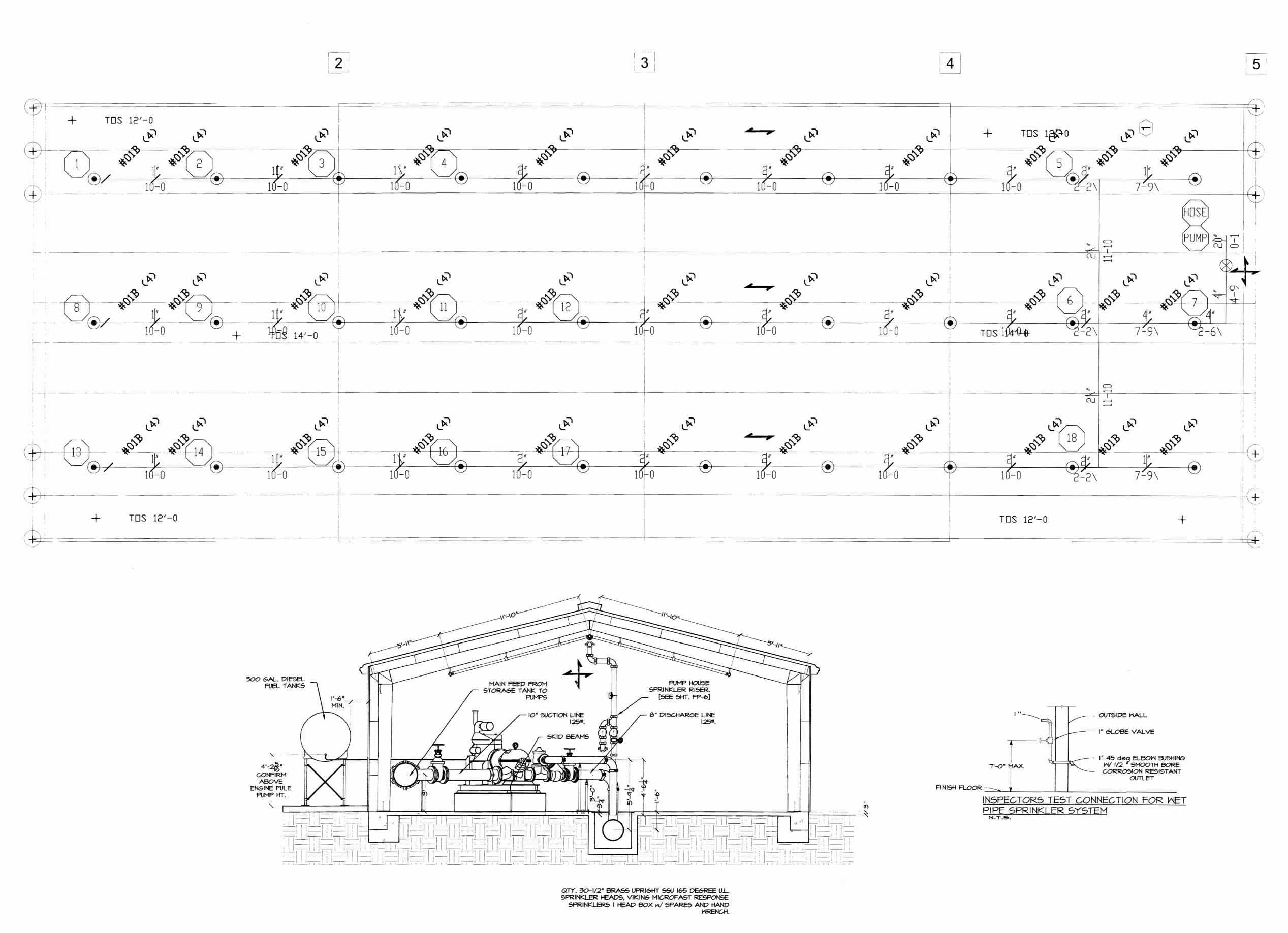
Maximum deflection distance: ___ (12)*

DEL.

CEBUILDERS

NOTES AND DETAILS

DATE: 12-11-02 SCALE: 1/4"=1'-0" DRAWN: William E. Rose 002-VICTORVILLE



I-30-03 WER

Fire & Pump Service Group 1513 DelAmo Blvd Carson, Ca 90746 0-223-3990 LIC. NO. 786946

DESIGN ASSOCIATES
P.O. BOX 55105 STOCKTON, CA 45205
209-443-3000 FAX # 209-443-3003

MP & STORAGE
ILUGE SYSTEM
ORVILLE AIRPORT

DATE: 12-11-02

SCALE: 1/4"=1'-0"

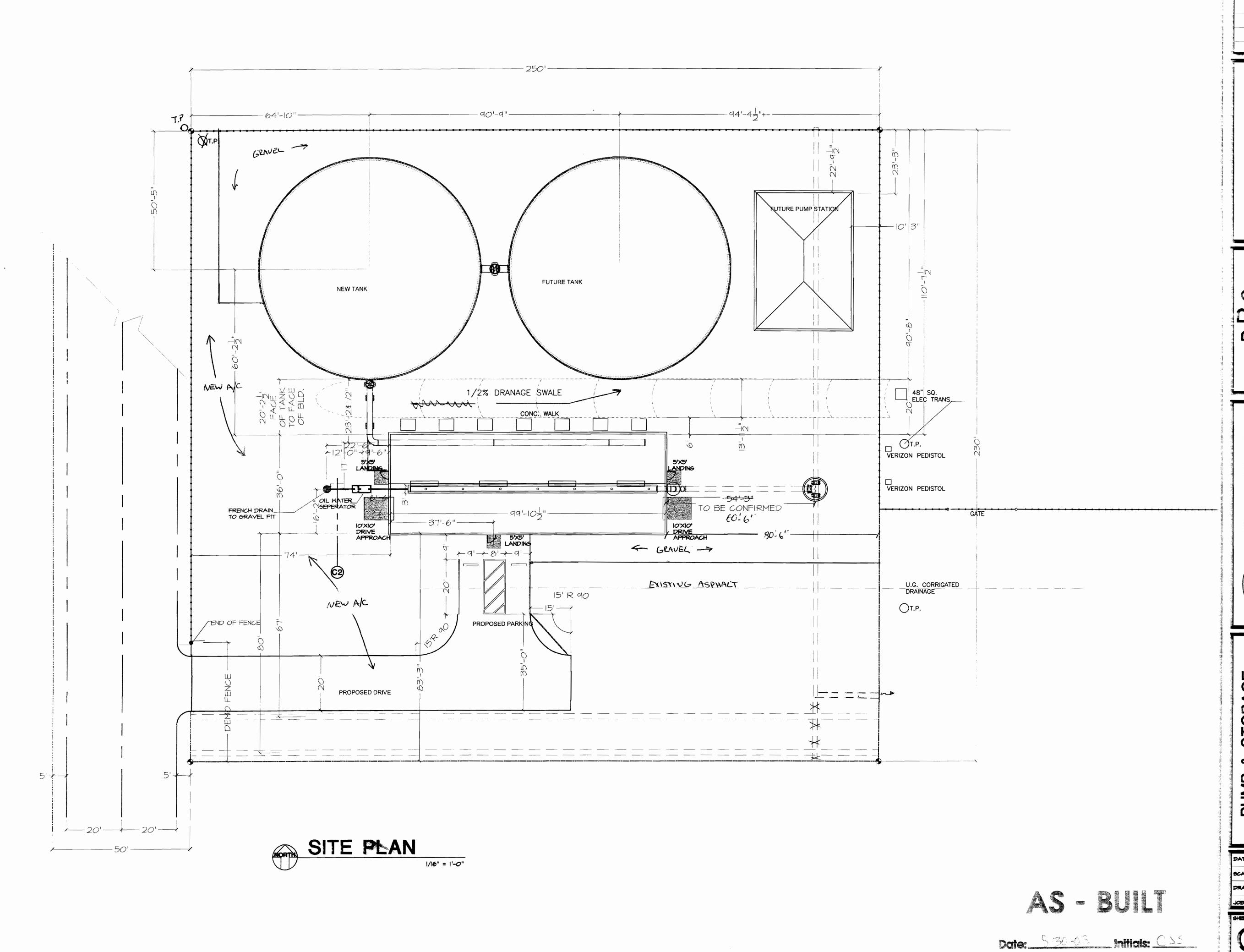
DRAWN: Wather & Row

OO2-VICTORVILLE

SHEET

P - 5

02/11/2003 05:50:34



ATTACHMENT

BRC
|GN ASSOC|ATES

0x 55105 STOCKTON, CA 45205
13-3000 FAX # 208-443-3003

REVISIONS

MIKE SMITTH
ENGINEERING, INC.
4 NORTH MAIN STREET
LODI, CALIFORNIA 95240
PHONE (209) 334-2332

WIIK

BOOK A WING TO THE CONTROL OF CALL OF CA

PUMP & STORAGE
DELUGE SYSTEM
ICTORVILLE AIRPORT

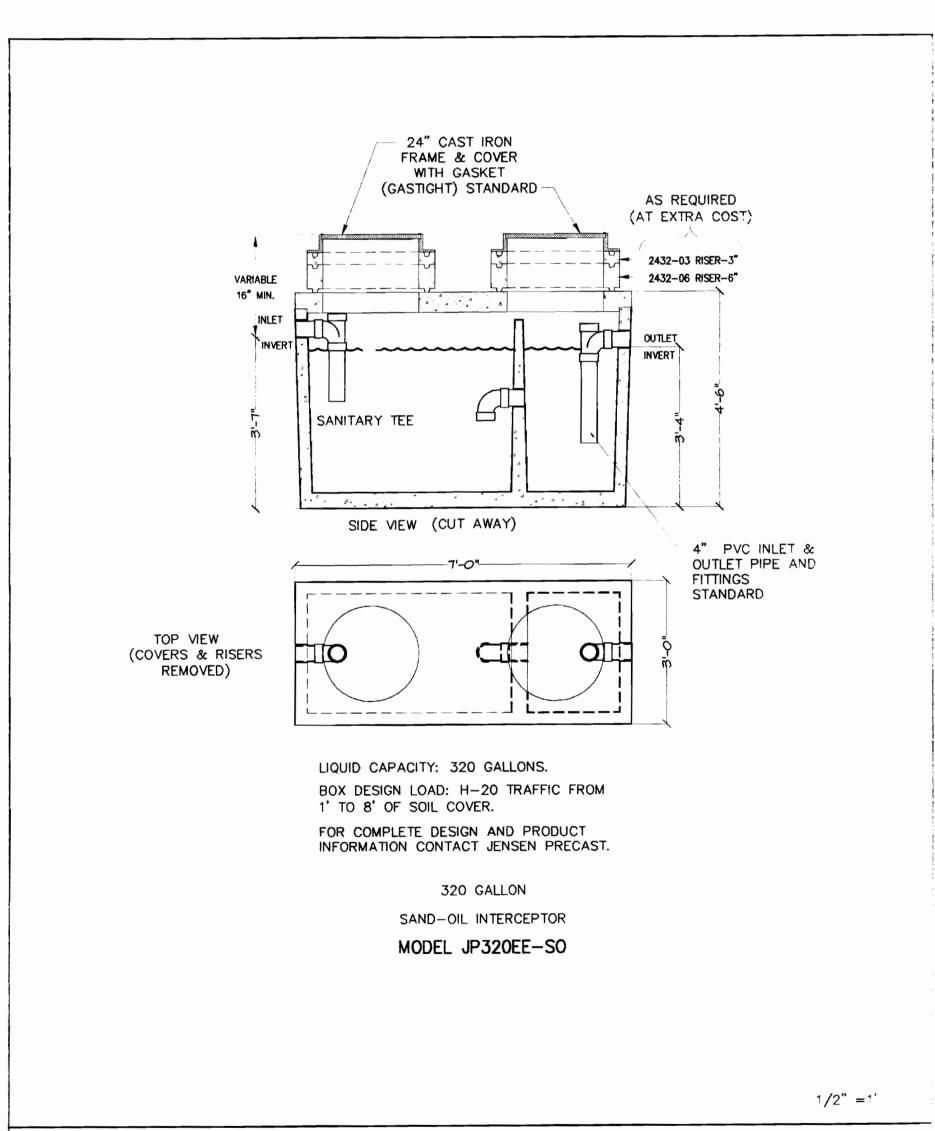
PATE: 4-9-03

CALE: 1/4"=1'-0"

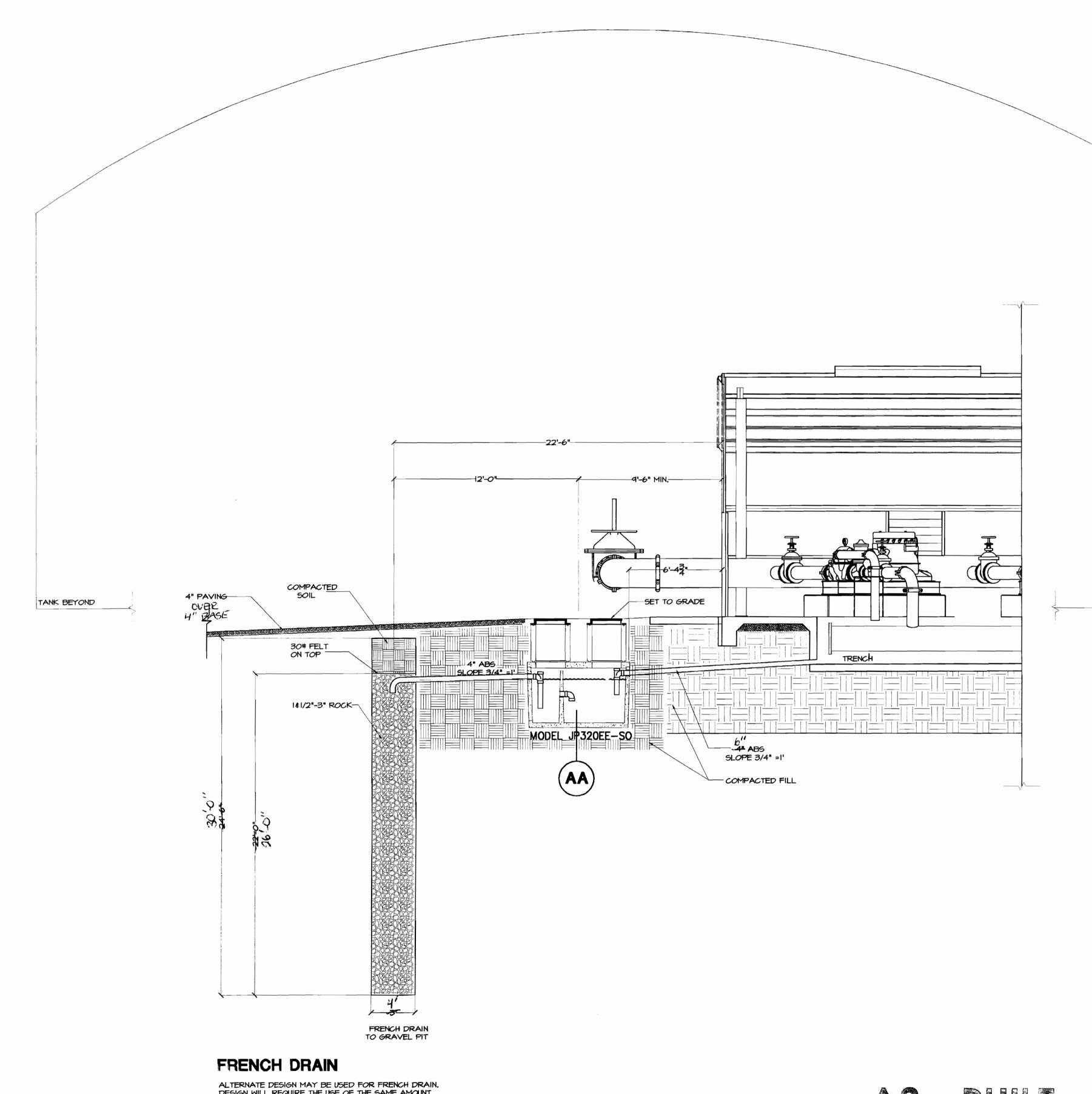
PRAVN: WARE 8. Am.

OB: 002-VICTORVILLE

JOB. OO2-VICTORVILL



AA SAND-OIL INTERCEPTOR



ALTERNATE DESIGN MAY BE USED FOR FRENCH DRAIN, DESIGN WILL REQUIRE THE USE OF THE SAME AMOUNT OF LEACHING FIELD AND ROCK VOLUME, USE MIN 7 YDS ROCK, USE 1¢1/2" TO 3" CLEAN SEPTIC ROCK,

ATTACHMENT

SECTION C-2

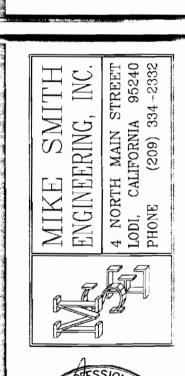
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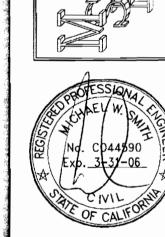
ate: <u>5.30.03</u> Initials: <u>CAS</u>

Fire & Pump Service Group 1513 DelAmo Blvd Carson, Ca 90746 310-223-3990 LIC. NO. 78694

REVISIONS

BRC
DESIGN ASSOCIATES
P.O. BOX 55105 STOCKTON, CA 45205





PUMP & STORAGE
DELUGE SYSTEM
VICTORVILLE AIRPORT

CALE: 12-11-02

CALE: 1/4"=1'-0"

RAVN: Walton & Row

OB: 002-VICTORV'LLE

02:30:06

'16/2003

C-2

GENERAL NOTES GENERAL A. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE 1997 EDITION OF THE UNIFORM BUILDING CODE AND STANDARDS AND ALL PUBLICATIONS NOTED 3. DETAILS SHOWN ON THE STRUCTURAL DRAWINGS ARE TYPICAL AND SIMILAR. SPECIFIC NOTES AND DETAILS SHOWN ON THE DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. C. DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER SCALE ON THE PLANS, SECTIONS AND DETAILS. ANY DISCREPANCIES SHALL BE BROUGHT TO IMMEDIATE ATTENTION OF THE ENGINEER. D. ALL CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FLOOR OR ROOF FRAMING MEMBERS. LOADS FROM SUCH MATERIALS SHALL NOT EXCEED DESIGN LIVE LOADS. REVIEW THE SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL REMAIN RESPONSIBLE FOR ALL ERRORS OF DETAILING, FABRICATION AND THE CORRECT FITTING OF STRUCTURAL MEMBERS, INCLUDING COORDINATION ALL DETAIL CHANGES DESIRED SHALL BE SUBMITTED TO THE ENGINEER IN WRITING, SHOP DRAWINGS DO NOT CONSTITUTE CHANGES IN WRITING, ALONG WITH A LETTER, THE SHOP DRAWINGS SHALL SHOW ALL PROPOSED CHANGES. G. DESIGN LOADS ARE AS PER CHAPTER 16 OF THE UBC AND MAY BE MODIFIED AS PER THESE NOTES. 2. FOUNDATIONS A. DESIGN-IF THE DESIGN OF THE FOUNDATIONS IS BASED ON A SOILS REPORT, THAT FACT IS NOTED ON THE PLANS. IF NOT, ALL DESIGN IS BASED ON REQUIREMENTS OF CHAPTER IS OF THE UBC. COMPACTION REQUIREMENTS. 1. SITE-MINIMUM SITE PREPARATION SHALL CONSIST OF SCARIFYING AND RECOMPACTING THE LOOSE SURFACE SOILS TO A MINIMUM COMPACTION OF 90% AS PER ASTM DI55T TEST PROCEDURE. ALL FILL MATERIAL REQUIRED SHALL BE PLACED IN 6" LAYERS AND COMPACTED AS NOTED. MINIMUM 2. PAVING-ALL AREAS TO BE PAVED SHALL BE TREATED AS SITE ABOVE TO 3. FOUNDATIONS-THE BOTTOM OF ALL FOUNDATIONS WHERE POSSIBLE SHALL BE PLACED ON NATIVE SOIL IN AN UNDISTURBED STATE OR ON APPROVED 4. SELECT BACKFILL-SELECT BACKFILL FOR STRUCTURES SHALL BE TREATED 3. CONCRETE A. GENERAL-ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI AND UBC CODES. B. CONCRETE-STRENGTH-UNLESS OTHERWISE NOTED ON THE PLANS CONCRETE SHALL OBTAIN A MIN. 28 DAY STRENGTH OF 2500 PSI. I. CEMENT-MIN. 5 SACKS PER YARD. AGGREGATES-MAXIMUM SIZE 34". VERIFY TRENCH/GRATE DETAIL W/ GEN. CONTRACTOR 3. SLUMP-4" MAXIMUM 4. ADMIXTURES-ONLY AS APPROVED BY THE ENGINEER. 5. CURING-KEEP WET MIN. 7 DAYS, OR MEMBRANE CURING COMPOUND 6. VIBRATION-ALL CONCRETE SHALL BE VIBRATED INTO PLACE W/ A MECHANICAL VIBRATOR. 7. FORM REMOVAL-SIDE FORMS OF FOUNDATIONS AND SLABS MIN. 2 DAYS. 8. TESTING-IN ACCORDANCE WITH ACI-301-72, CHAPTER 19. 9. ALL EXPOSED CONCRETE SHALL HAVE SMOOTH FINISH . REINFORCING MATERIALS 1. DEFORMED BARS-ASTM A615; #4 AND SMALLER, GRADE 40; #5 AND LARGER, GRADE 60. 2. ELECTRIC WELDED WIRE FABRIC (EMWF)-ASTM A 185. 5. STRUCTURAL STEEL & MISCELLANEOUS IRON A. CODES-ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING CODES: UBC-UNIFORM BUILDING CODE. 2. AISC-AMERICAN IRON AND STEEL CONSTRUCTION SPECIFICATIONS. 3. AMS-AMERICAN WELDING SOCIETY STANDARD CODE OI.I. 4. ASTM-AMERICAN SOCIETY OF TESTING MATERIALS. STRUCTURAL STEEL MEMBERS-ASTM A-36 OR AS SHOWN ON THE PLANS. . STRUCTURAL TUBING-ASTM A500 GRADE B. 3. STRUCTURAL PIPING-ASTM A53 GRADE B. 4. BOLTS, NUTS AND WASHERS-ASTM ABOT (UNLESS NOTED ON THE PLANS 5. HIGH STRENGTH BOLTS, NUTS AND WASHERS-ASTM A325 (INDICATED ON DRAWINGS AS HSMB) 6. WELDING MATERIALS-E-70 ELECTRODES AS PER AMS-01-1. PAINT PRIMER-FED. SPEC. TT-D31, RED OXIDE. 8. GALVANIZING-ASTM A525 MIN. 201 HOT DIPPET 9. OPEN WEB STEEL JOISTS-AS NOTED ON THE PLANS-PER STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE. I" BELDW 10. METAL DECKING-ASTMA-446 GRADE D (FY=50 KSI)-GALV. TO ASTM FW154 A525 G-60 COATING, FABRICATION AS PER STEEL DECK INSTITUTE C. FABRICATION I. WELDING-WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS ONLY. SHOP FABRICATE TO THE GREATEST POSSIBLE EXTENT. 3. SHOP PRIME ALL STEEL EXCEPT GALVANIZED STEEL. DO NOT PRIME

BEARING ANGLE 3"x3"x36"x0'-7"

SURFACES TO BE WELDED OR WHICH WILL BE PLACED INTO CONCRETE. D. SHOP DRAWINGS 1. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL STEEL 2. COORDINATE SHOP DRAWINGS WITH ALL OTHER TRADE

E. TESTING AND INSPECTION . STRUCTURAL STEEL-SUBMIT MILL REPORTS AS PER AISC SPECIFICATIONS. 2. HIGH STRENGTH BOLTS, BOLTS AND WASHERS-PROVIDE WRITTEN MILL 3. ALL FIELD WELDING SHALL BE BY A CERTIFIED WELDER AND INSPECTED

BY AN APPROVED WELDING INSPECTOR. 4. HIGH STRENGTH BOLTS SHALL BE INSPECTED BY A QUALIFIED INSPECTO

PRE-ENGINEERED, PREFAB. METAL BLDG. SYSTEM A. CODES-ALL WORK SHALL CONFORM TO THE CODES AS NOTED ABOVE FOR "STRUCTURAL STEEL AND MISCELLANEOUS IRON" AND IN ADDITION SHALL CONFORM TO ALL SECTIONS OF THE CURRENT EDITION MANUAL OF THE METAL BUILDING MANUFACTURERS ASSOCIATION, "METAL BUILDING SYSTEMS MANUAL" B. BUILDING LOADING CONDITIONS. I. LIVE LOAD ROOF SHEETING - 20 PSF BASIC

ROOF PURLINS - 20 PSF BASIC RIGID FRAMES - 20 PSF BASIC REDUCED FOR TRIBUTARY AREA AND 2. WIND LOAD-PER APPLICABLE CODES

ROOF AND WALL SHEETING - ACTUAL WEIGHT OF MATERIAL ROOF PURLING - ACTUAL WEIGHT OF THE MEMBERG. MANUFACTURER SHALL BE SUPPLIED THE LOCATION OF THE MAIN WATER SUPPLY LINES FOR THE SPRINKLER SYSTEM (IF APPLICABLE) AND THE MANUFACTURER SHALL PROVIDE THE SUPPORTING MEMBERS AS REQUIRED. RIGID FRAMES - ACTUAL WEIGHT OF THE FRAME. COLLATERAL DEAD LOAD -SPRINKLER SYSTEM -

C. THE OWNER SHALL MAKE ALL COLOR SELECTIONS FOR THE ROOF SHEETING WALL SHEETING, ROOF VENTS AND TRIM FOR THE BUILDING. . ALL METAL BUILDING MANUFACTURER CONTRACTORS SHALL AT THE TIME OF SUBMITTING THEIR BID, SUPPLY ENOUGH DATA OF THE BUILDING PROPOSED BY THE CONTRACTOR, SO THAT THE OWNER MAY VERIFY THAT ALL REQUIREMENTS OF HIS NEEDS WILL BE MET BY THE CONTRACTOR'S PROPOSAL.

1. ROOF SHEETING-PAINTED GALVANIZED AS PER ASTM A446 FY = 80 KSI AND SHALL BE PRIMED TO RECEIVE BLOWN-ON INSULATION IF APPLICABLE. 2. WALL SHEETING-PAINTED GALVANIZED AS PER ASTM A446 FY = 80KSI AND SHALL BE PRIMED TO RECEIVE BLOWN-ON INSULATION IF APPLICABLE. 3. TRIM-PAINTED GALVANIZED AS PER ASTM A446 GRADE D. 4. ALL OTHER FRAMES, GIRTS, PURLINS, ETC. AS PER ASTM A446 GRADE D.

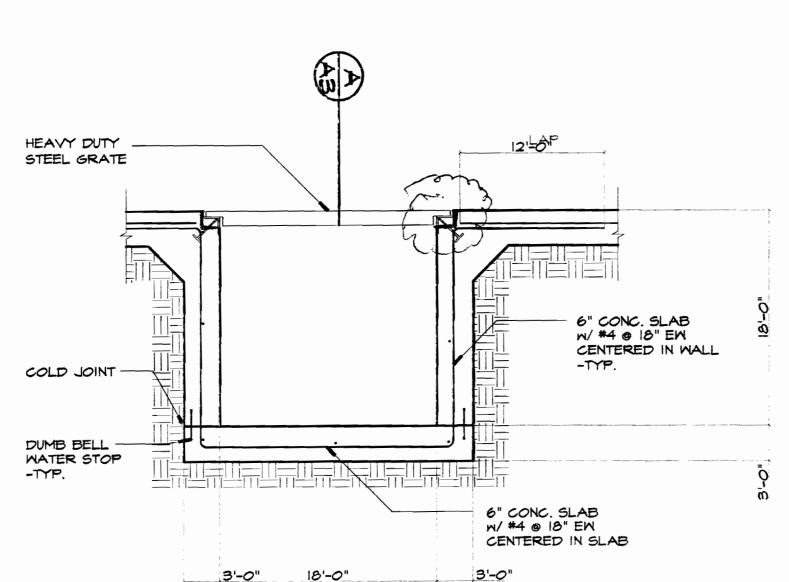
5. BUILDING CLOSURES I. USE PRE-FORMED APPROVED NEOPRENE SHEET CLOSURES AT THE FOLLOWING LOCATIONS: A. ROOF SHEETS AT THE RIDGE

C. WALL SHEETS AT THE EAVE. D. WALL SHEETS AT THE TOP OF CMU WALL OR TOP OF FOUNDATION. I. USE 14" THICK X I" WIDE PRE-FORMED APPROVED MASTIC AT THE

B. ROOF SHEETS AT THE EAVE.

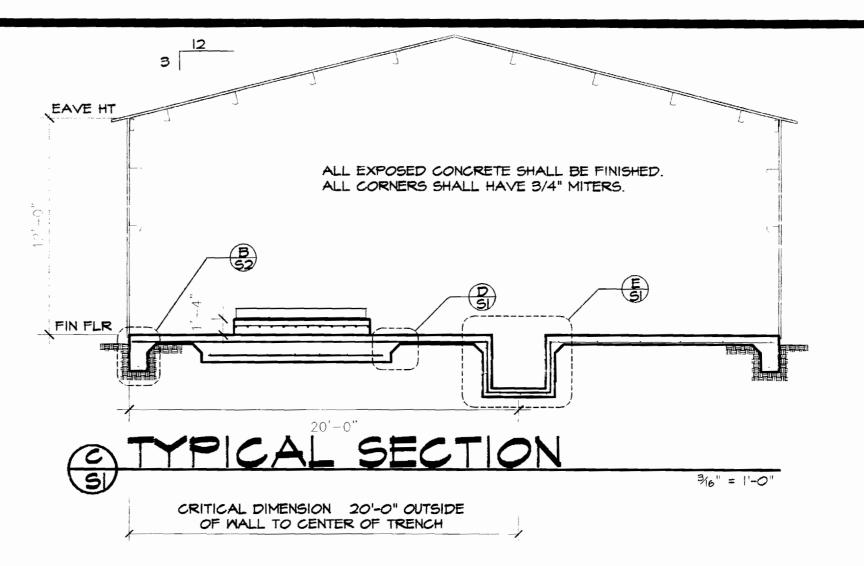
FOLLOWING LOCATIONS: A. ROOF SHEETS . SIDE LAPS, INCLUDING SKYLITES

2. END LAPS, INCLUDING SKYLITES 3. TOP AND BOTTOM OF PRE-FORMED NEOPRENE CLOSURE AT ROOF



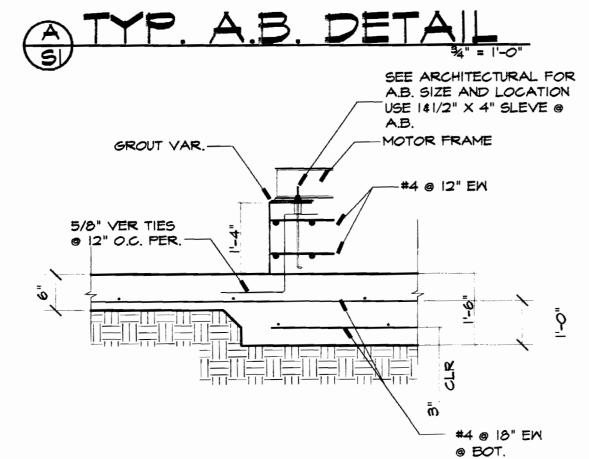
SEE FOUNDATION PLAN FOR DOOR WIDTH DOOR NOTCH

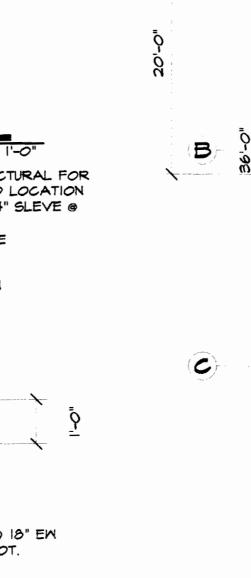
ADDENDUM 2 - 05-22-13 ATTACHMENT

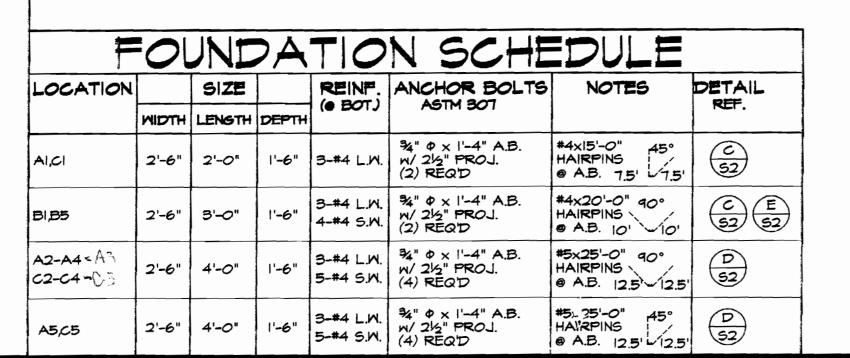


TRENCH DETAIL

5" ON C SEE STL. DWGS.







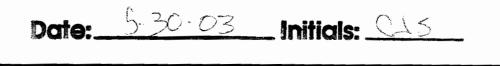
100'-0" 25'-0" 25'-0" 25'-0" 25'-0" ·───────┆╤╤╾───┤*┺╞╬╌──────*╒╡╾╌┤*┺╞╌╾╾┼╾╾╾┼───╞╕*┼┥*┺╞╾╌*╤╌┤╌╒╧╌╌╌┤*╂* IRPINS (CTRD IN CONC.) TYP. HAIRPINS (CTRD. IN CONC.)

12" CONC. S. D. G. W. #4 @ 10" E.W.

10 VER 12" COMP SUBGRADE 10 40% REL COMPACTION. -TYP. THICKENED S TYP. R.F. PAD FNDN. -- SEE FNDN. SCHED. FOR ----SIZE, REINF. + DETAIL REF. 6" CONC. S.O.G. W/ #4 @ 18" E.M. OVER 12" SOMP SUBGRADE TO 90% REL COMPACTION. -TYP. CONC. FLOOR ┝╾╾╾╌╾╌┼╾╌╾╌┤╵┸╱┝┼╾╾╼╾╌╌╌╌┼ 1'-0" 25'-0" 25'-0" 25'-0" - VERIFY LOC. OF UFER GRND AND 4" SOD 40 RISER 100'-0"

AS - BULT

FOUNDATION PLAN





And the Market . AT 1 2 2000 A FRIEDERS

VERIFY ALL BOLT LOCATIONS WITH METAL BUILDING PLANS

ਰ ਹ <u>§</u> Ser . IAmo I Pump 513 Del arson, 3990 & Pul 1513 Carso

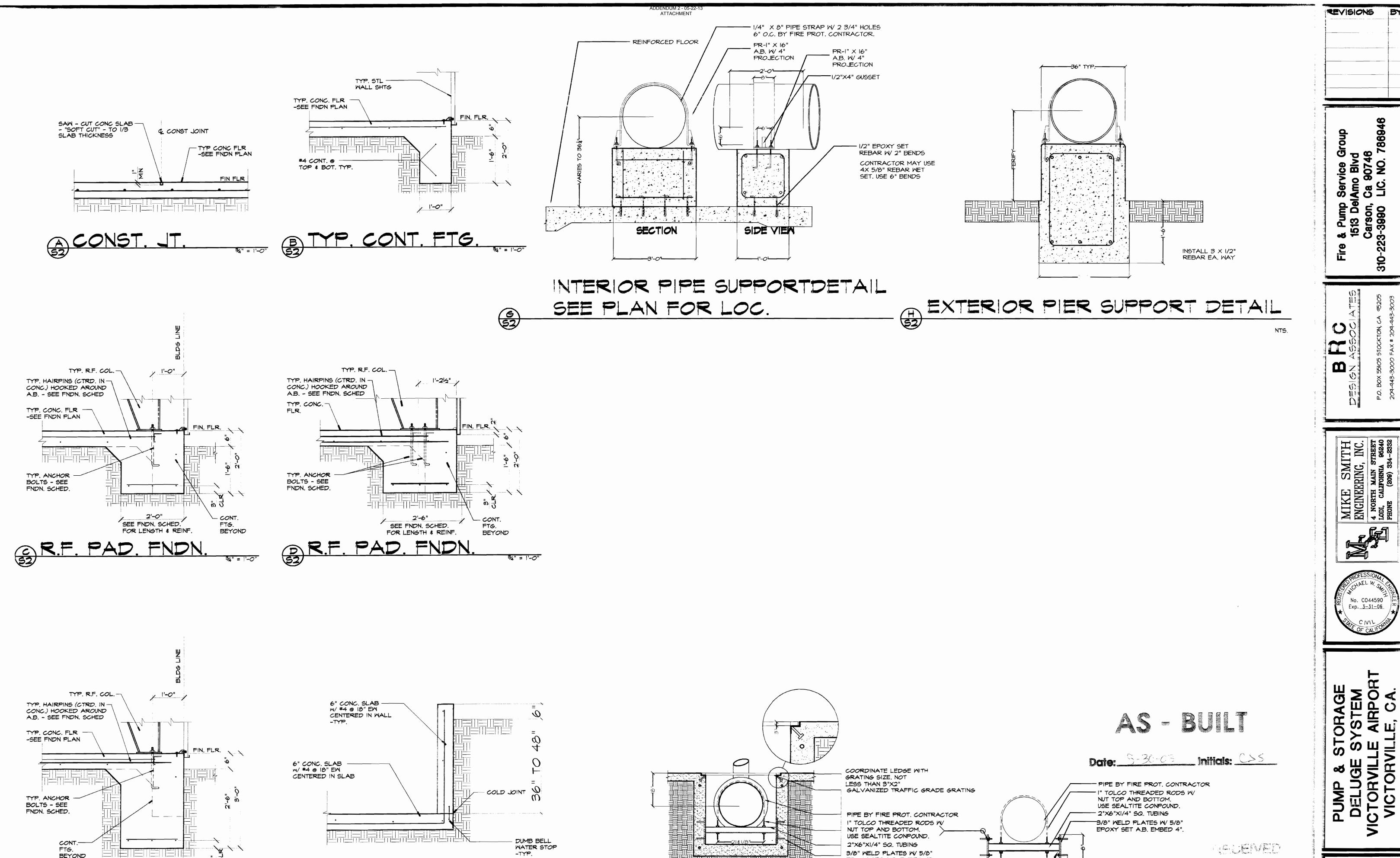
REVISIONS



SYSTEM E AIRPOR LLE, CA. S M PUMP DELU ICTOR\ VICTO

DATE: 12-11-02 SCALE: 1/4"=1"-0"

002-VICTORVILLE



SET @ 48" O.C.

94" = 1'-0"

PIPE SUPPORT DETAIL

2'-0"
SEE FNDN. SCHED.
FOR LENGTH & REINF.

2"X6"X1/4" SQ. TUBING

3/8" WELD PLATES W/ 5/8" EPOXY SET A.B. EMBED 4".

DIP GALVANIZED #3/8"

DATE: 12-11-02 SCALE: 1/4"=1"-0" 002-VICTORVILLE **S-2**

the last to the la

EF 3 2 2001

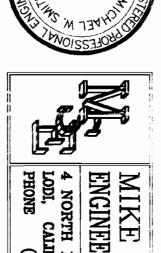
OF RUILDERS

PE SUPPORT DETAIL @ 48

SNOISINE

MIKE SMITH
ENGINEERING, INC.

4 NORTH MAIN STREET
LODI, CALIFORNIA 95240
PHONE (209) 394-2332







OOS-NCTORVILLE

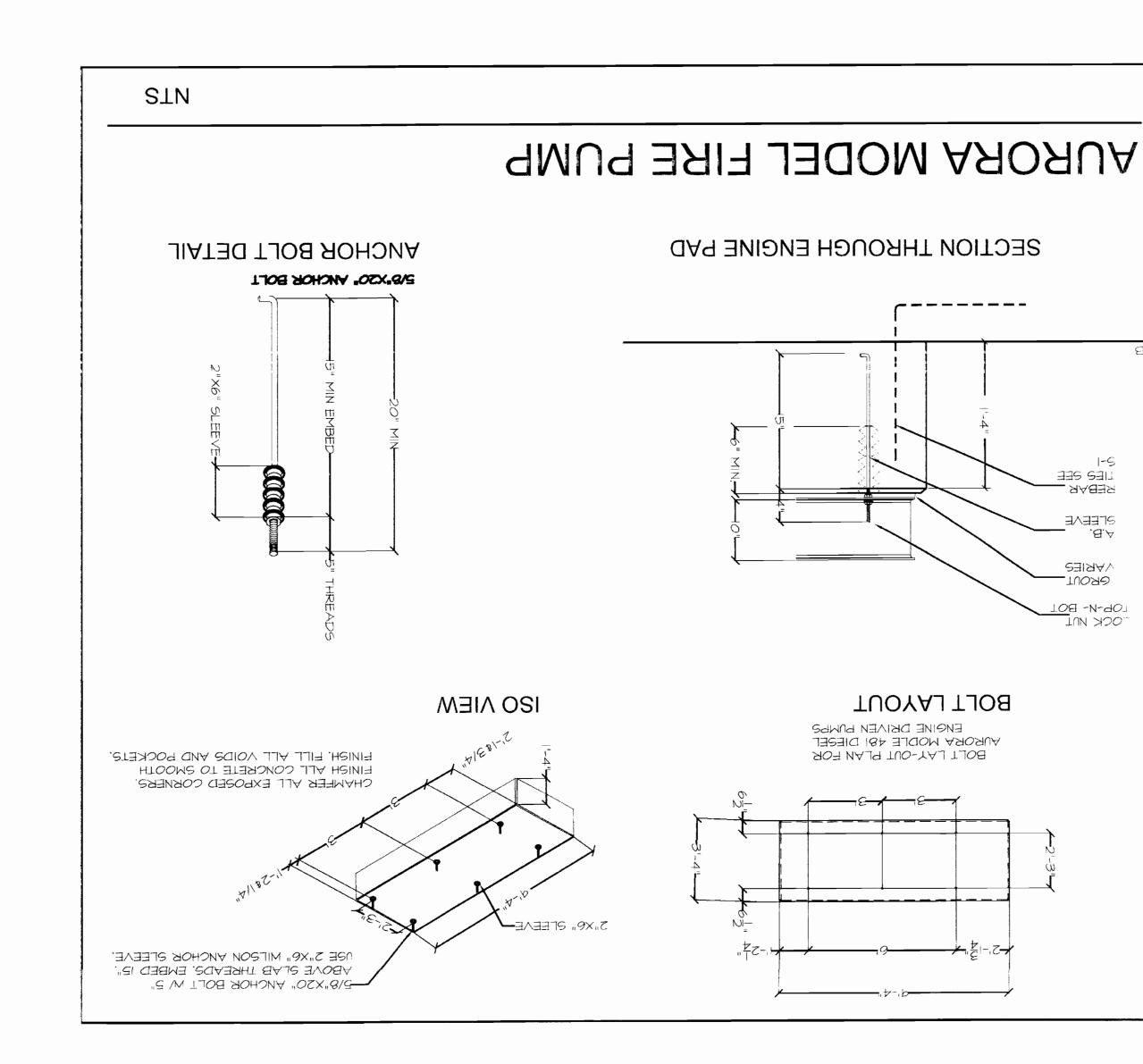
673. HOUR

ITINE - SW

STN CLARK MODEL FIRE PUMP ANCHOR BOLT DETAIL SECTION THROUGH ENGINE PAD 3/4"X20" ANCHOR BOLT GROUT___ TOP-N-BOT -OCK NUT ISO NIEM **BOLT LAYOUT** DIESLE ENGINE DRIVEN FOR BOLT LAY-OUT PLAN FOR CHAMFER ALL EXPOSED CORNERS. FILL ALL VOIDS AND POCKETS. USE 2"X6" MILSON ANCHOR SLEEVE.

ABOVE SLAB THREADS, EMBED 15".

ANGRONE SLAB THREADS, EMBED 15".



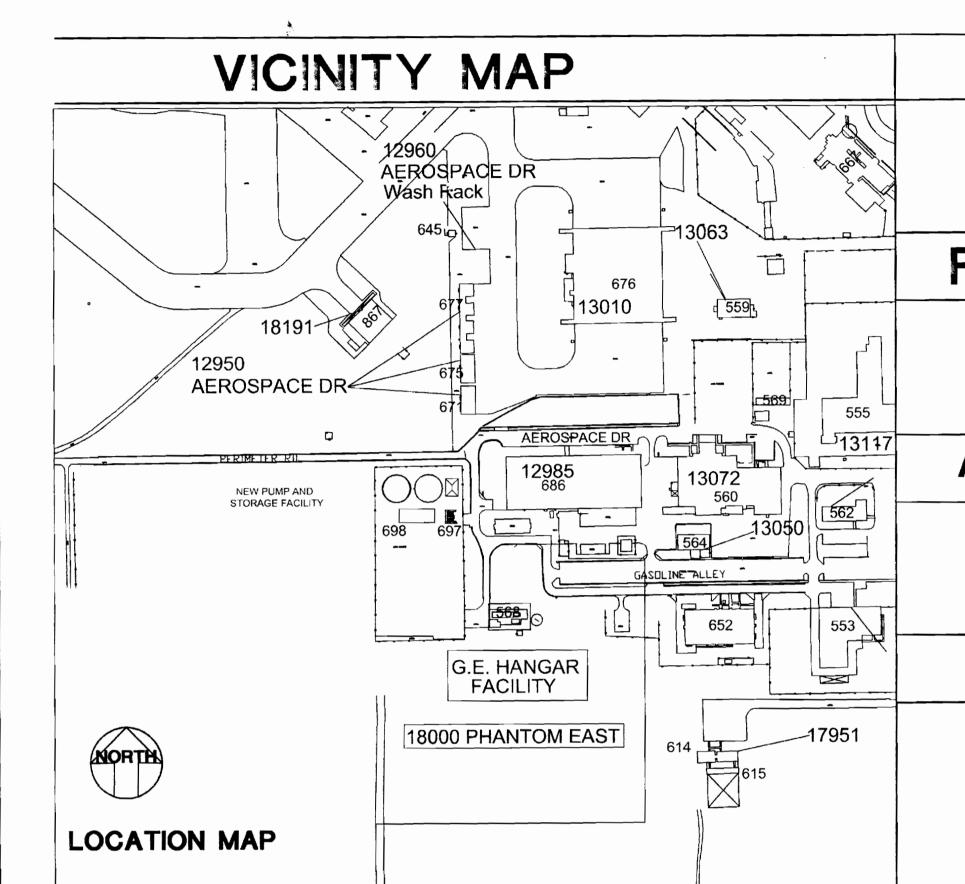
CITY OF VICTORVILLE BUILDING AND SAFETY DEPARTMENT 14343 CMC DRINE, NCTORNILE, CA 92392

THESE DRAWING AND SPECIFICATION ARE THE PROPERTY
AND COPYRIGHT OF THE LEDGINGS THE SHALL BY SHALL BY THE STREAM SHALL BY THE SHALL BY SHAL

TENANT IMPROVEMENTS FOR SOUTHERN CA. INTERNATIONAL AIRPORT BUILDING 734 FLOOR PLAN

DATE 06-14-95 JOB NO DRAWN R MARTIN APPROVED DRAWING BLDG 734 SHEET NO of 3

ABOVEGROUND WATER STORAGE PUMP AND STORAGE DELUGE SYSTEM



13010

18000 PHANTOM EAST

AEROSPACE DR

NEW WERK SITE

SITE * MAP

OWNER CITY OF VICTORVILLE 14343 CIVIC DRIVE VICTORVILLE, CALIFORNIA 92392-2399

FIRE PROTECTION ENGINEER

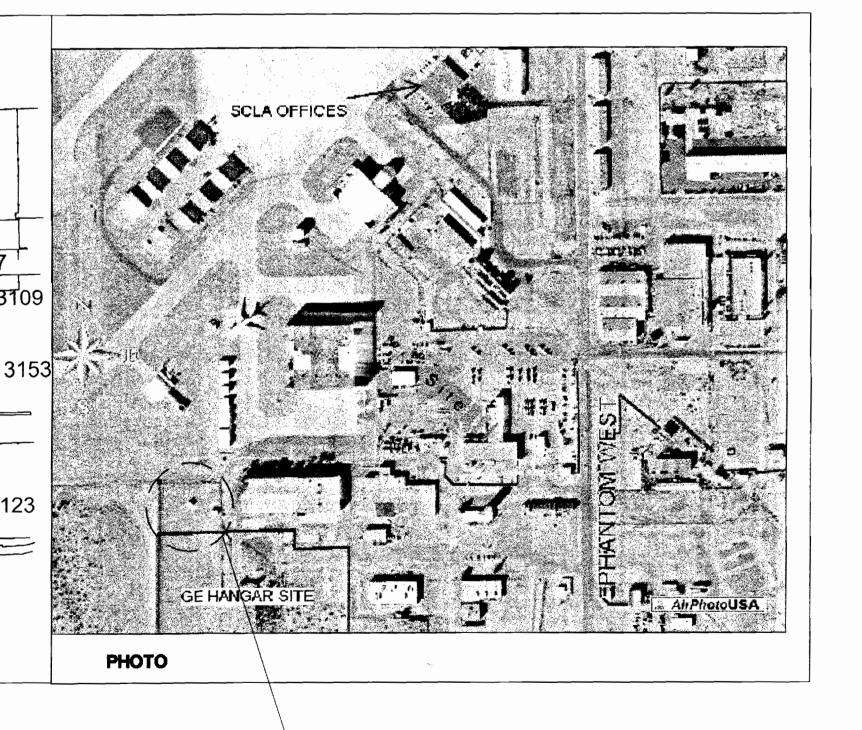
Fire & Pump Service Group
1513 Del Amo Blvd Carson , CA 90746 310.223.3990

ARCHITECTURE AND ENGINEERING

BRC DESIGN ASSOCIATES PO BOX 55105 Stockton, CA 95205

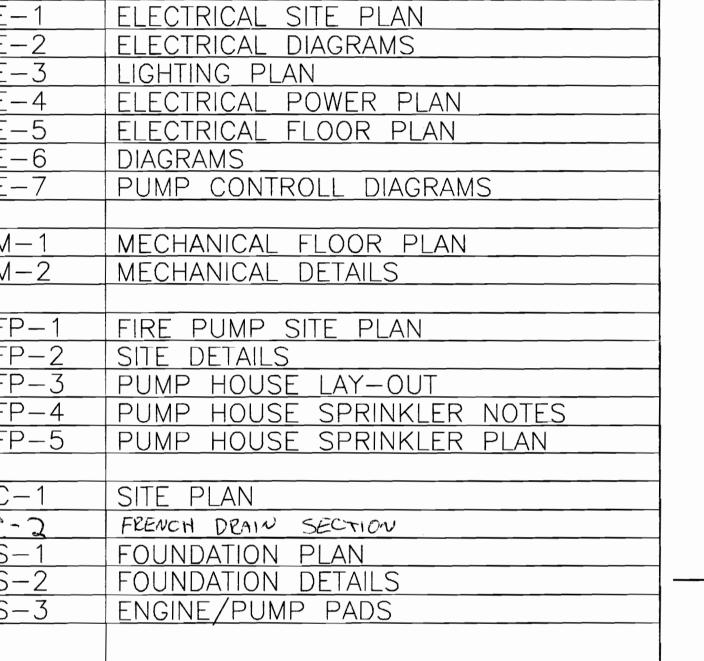
CONTRACTOR

I.C.E. BUILDERS INC. 421 EAST CERRITOS AVENUE **ANAHEIM, CA. 92805** 714.491.1317



CODE INFO.

BUILDING CODE 1997 UBC OCCUPANCY GROUP USE FIRE PROTECTION CONSTRUCTION TYPE 11



DRAWING INDEX

FLOOR PLAN

ROOF PLAN

PERSPECTIVE VIEW

SECTIONS

ELEVATIONS

SHEET TITLE

TITLE SHEET, PROJECT INFORMATION

SHT. NO.

 $\overline{A-4}$

AS-BUILTS

	ABBREVIATION	ONS &	SYMBOLS
C.P. WF. O. K.T. WO.N.T. NO. W.P.T. W.;ELT. NO. S. T. V. B.C. C. V	ABBREVIATION AND AT ASPHALTIC CONCRETE ASBESTOS CEMENT PIPE ALUMINUM ABOVE FLOOR FINISH BOARD BLOCK BOTTOM CERAMIC TILE CENTER LINE CONCRETE MASONRY UNIT CONVENIENCE OUTLET CONCRETE CONTINUOUS CIRCUIT CONNECTION DRAWING DETAIL DIMENSION DOOR OPENING DIAMETER EACHWAY EXPANSION EXTERIOR EACH EQUAL ELEVATION EXISTING EXISTING FINISHED FLOOR FEET GRADE GATE VALVE GYPSUM WALL BOARD HORIZONTAL HOLLOW CORE INSIDE DIAMETER INTERIOR INVERT JOINT	No.C. O.D. P.SI. REQ'D RETT RCB SC CT SHM STRUCT. SSTL. STRUCT. SSTL. STRUCT. SSTR. TEMP. TERM. TYPR. VAR. VCT T. W.O. WWF F.C. W.O. WWF	NUMBER ON CENTER ON CENTER OUTSIDE DIAMETER OPENING PLATE POUNDS PER SQUARE INCH REINFORCEMENT REQUIRED RESILIENT FLOOR TILE RESILIENT COMPOSITION BASE SOLID CORE SECTION SHEET SIMILAR SQUARE STATION STANDARD STEEL STIRRUP STRUCTURAL STAINLESS STEEL SYMMETRICAL SUSPENDED ACOUSTIC CEILING SCHEDULE TELEPHONE TEMPORARY TERMINAL THICK, THICKNESS TYPICAL VARIES VINYL COMPOSITION TILE VERTICAL WIDE WITH WINDOW OPENING WELDED WIRE FABRIC FIRE EXTENSIVE SHE C
	LINEAR FOOT		

POUNDS

MANHOLE

MOVABLE

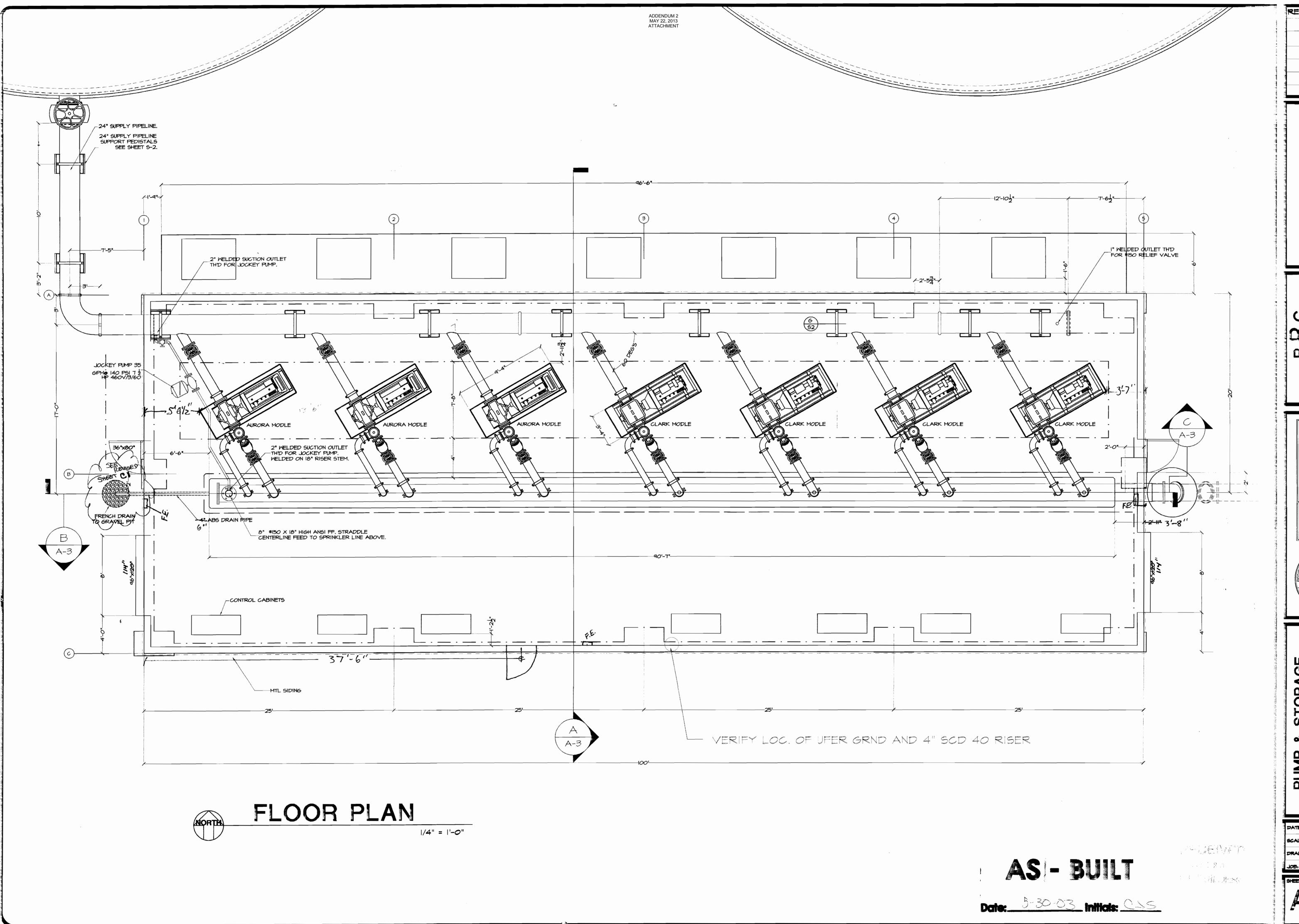
MOUNTED NOT IN CONTRACT NEW

AS - BUILT

Date: 5-30-03 Initials: 055



02/11/2003 04:47:10



& Pump Service Group 1513 DelAmo Blvd Carson, Ca 90746 23-3990 LIC. NO. 786946

ESIGN ASSOCIATES

9.0. BOX 55105 STOCKTON, CA 45205

209.443-3000 FAX # 209-443-3003

ENGINEERING, INC.

4 NORTH MAIN STREET

LODI, CALIFORNIA 95240
PHONE (209) 334-2332

No. CO44590
EXP. 3-31-06

CIVIL OF CALIFORNIA

COMMENT

C

PUMP & STORAGE
DELUGE SYSTEM
ICTORVILLE AIRPORT

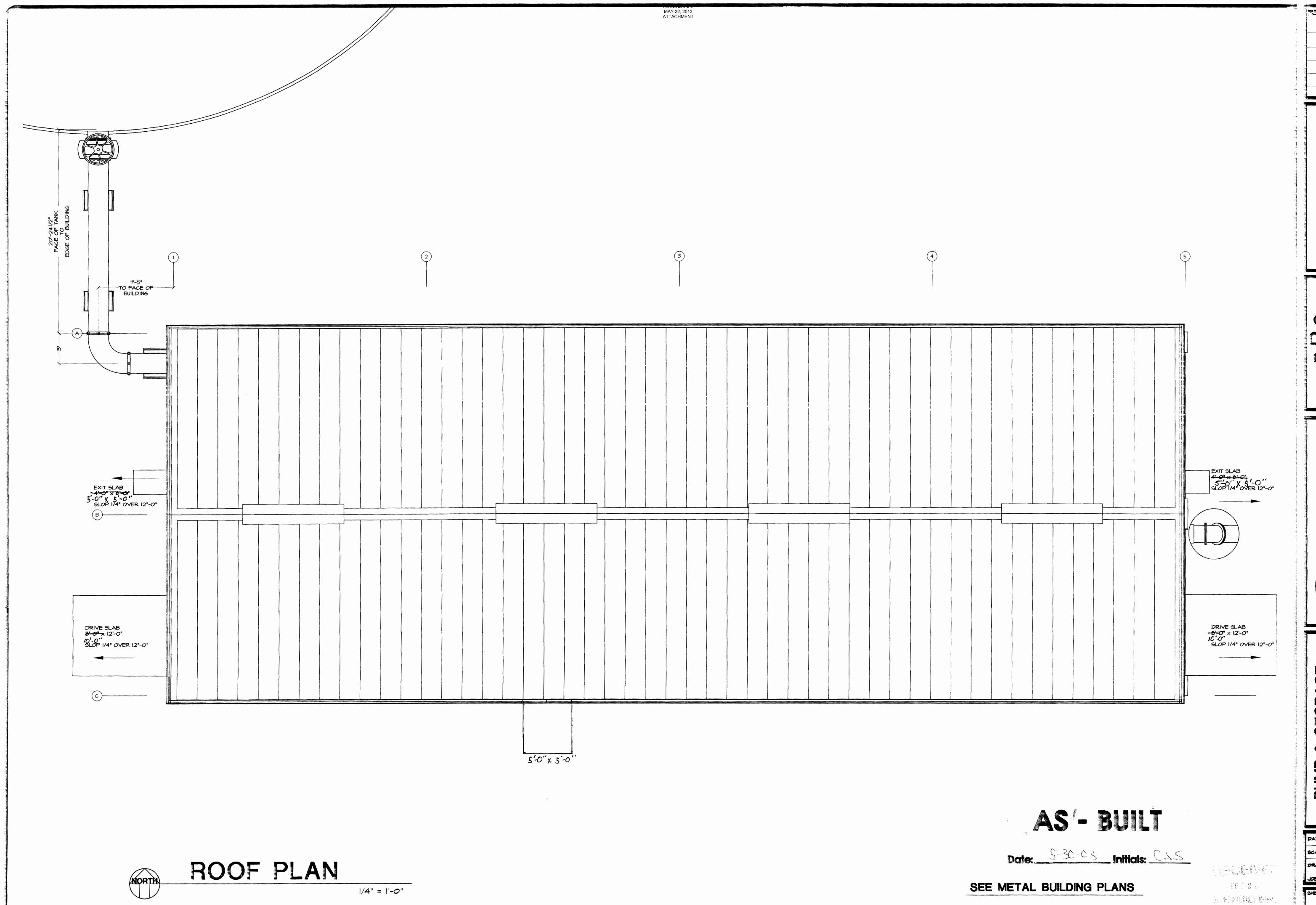
DATE: 12-11-02

SCALE: 1/4"=1'-0"

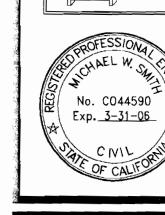
DRAWN: William E. Rom

JOB: 002-VICTORVILLE

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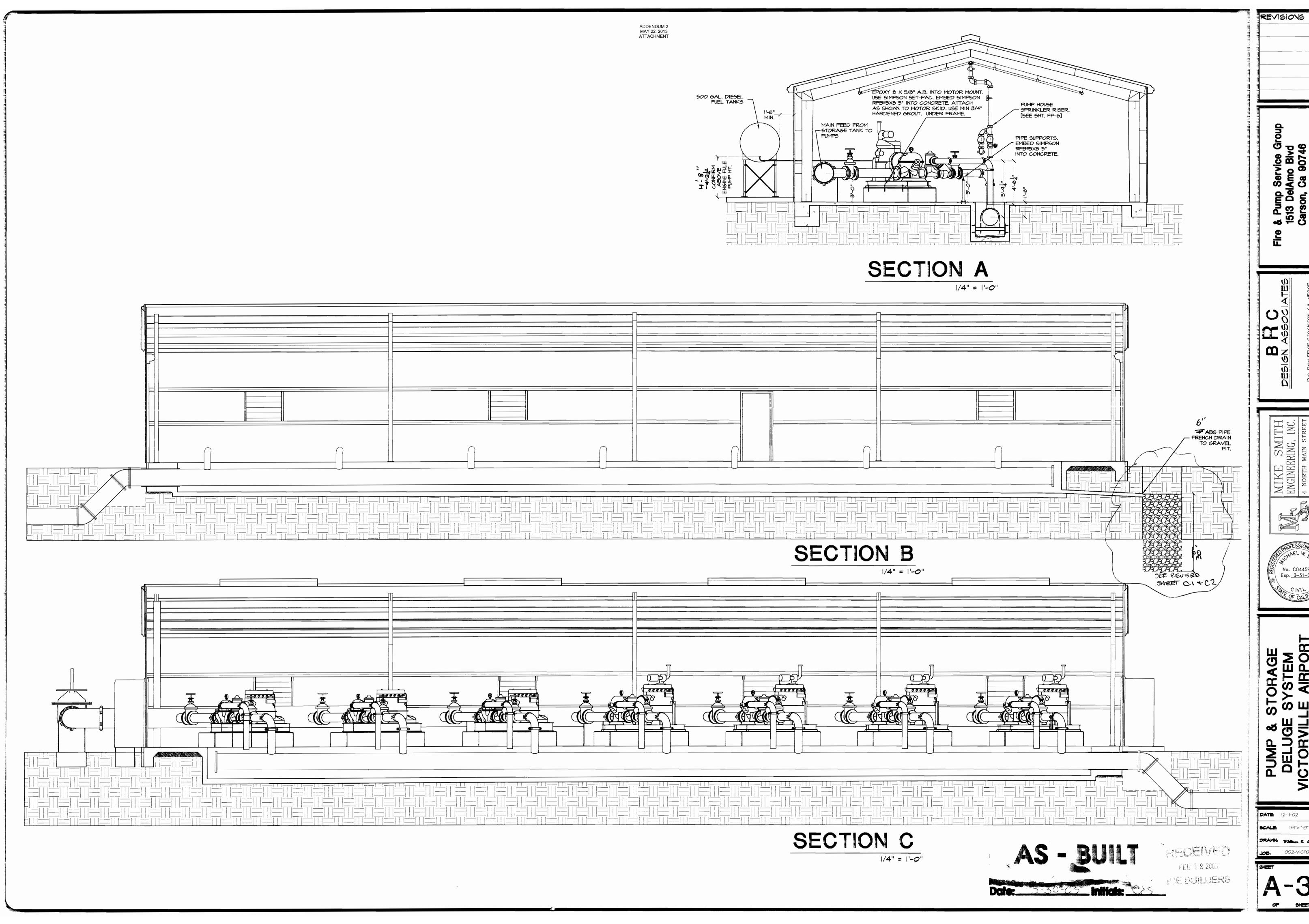




PUMP & STORAGE DELUGE SYSTEM VICTORVILLE AIRPORT VICTORVILLE, CA.

DATE: 12-11-02

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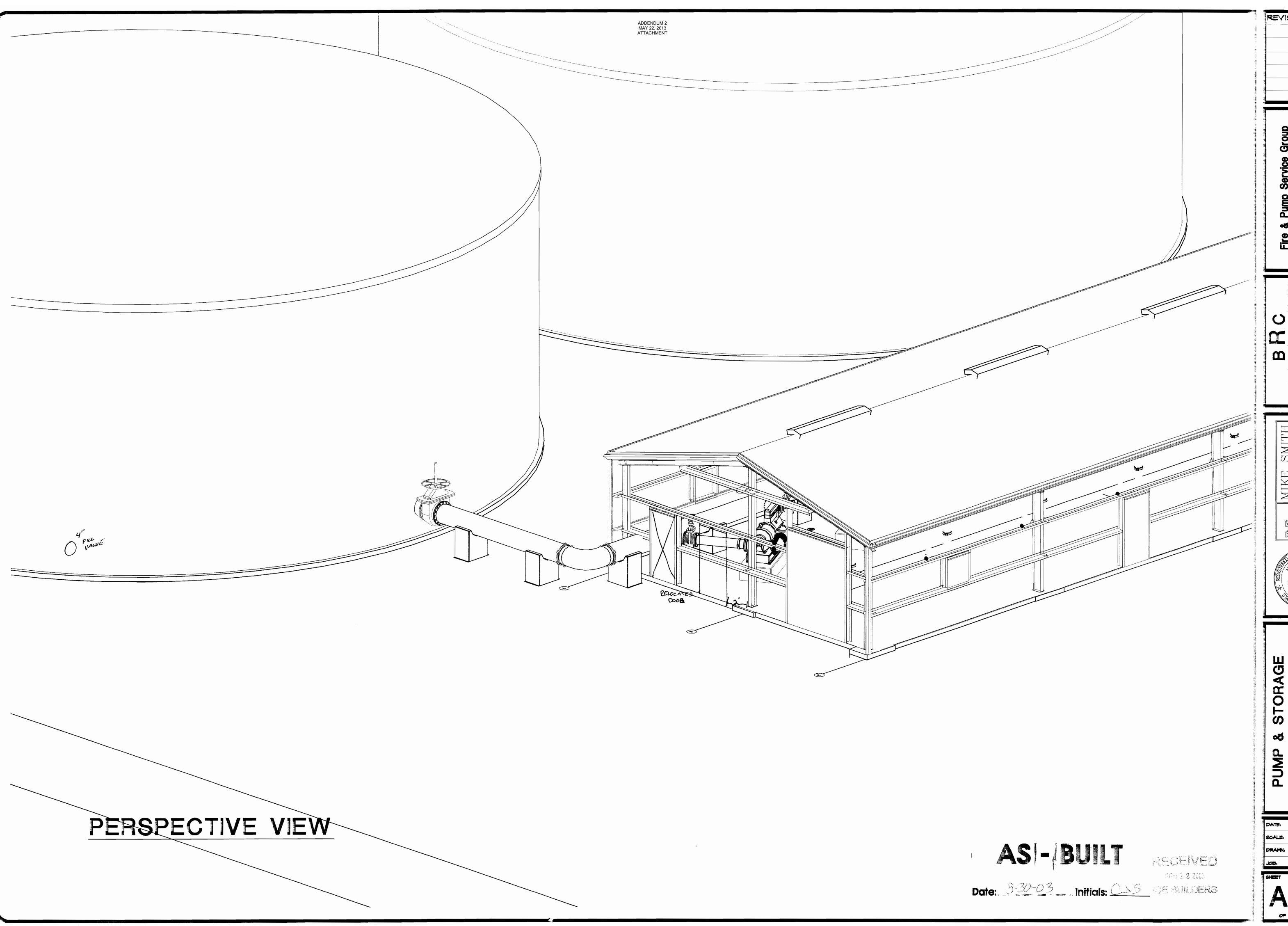
MIKE ENGINE 4 NORTH LODI, CAL PHONE

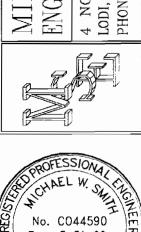


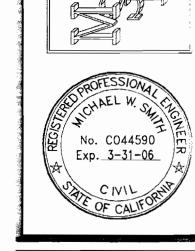
PUMP & STORAGE DELUGE SYSTEM VICTORVILLE AIRPORT VICTORVILLE, CA.

002-VICTORVILLE

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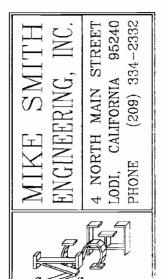


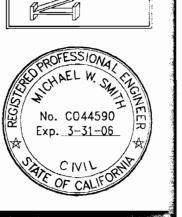
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Group d 16 786946

Fire & Pump Service Group
1513 DelAmo Blvd
Carson, Ca 90746

DESIGN ASSOCIATES
P.O. BOX 55105 STOCKTON, CA 45205
204-443-3000 FAX # 204-443-3003





PUMP & STORAGE DELUGE SYSTEM VICTORVILLE AIRPORT VICTORVILLE, CA.

DATE: 12-11-02

SCALE: 1/4"=1'-0"

DRAWN: Washin & Bins

JOB: 002-VICTORVILLE

A-5

02/11/2003 04:57:22

	LEGI		
ABBREVIATION 	DESCRIPTION	ABBREVIATION -	DESCRIPTION
A AFF AFG AWG	AMPERE(S) ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AMERICAN WIRE GAUGE	N NB NEC	NEUTRAL NEUTRAL BUS BAR NATIONAL ELECTRICAL CODE
C C CB CF	CELSIUS (CENTEGRADE) CONDUIT CIRCUIT BREAKER COMPACT FLUORESCENT	Ф OSHA	PHASE(S) OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
CU	COPPER	PVC	POLYVINYL CHLORIDE
e.g. E.C. EMT	FOR EXAMPLE ELECTRICAL CONTRACTOR ELECTRICAL METALLIC TUBING	RSC	(GALVANIZED) RIGID STEEL CONDUIT
F FACP FF	FAHRENHEIT FIRE ALARM CONTROL PANEL FINISHED FLOOR	sf SH. SP	SQUARE FOOT (FEET) SHEET SERVICE PANEL
FG FPC	FINISHED GRADE FIRE PUMP CONTROLLER	TYP.	TYPICAL
G GB GFI	GROUND GROUND BUS BAR GROUND FAULT CIRCUIT INTERRUPTOR	UBC UH UL	UNIFORM BUILDING CODE UNIT HEATER UNDERWRITERS' LABORATORIES
HP	HORSEPOWER	V	VOLT(S)
IF IR	INSIDE FROSTED INTERRUPTING RATING	VA W	VOLT-AMPERE(S) WATT(S)
M.C. MCA MOCP	MECHANICAL CONTRACTOR MINIMUM CIRCUIT AMPERE(S) MAXIMUM OVERCURRENT PROTECTION	WEF WH WP	WALL EXHAUST FAN WATT-HOUR METER WEATHERPROOF (NEMA 3R)
SYMBOL	DESCRIPTION		
	RACEWAY		
	RACEWAY TURNS UP AND/OR BEC	OMES EXPOSED	
——— <u> </u>	RACEWAY TURNS DOWN AND/OR	BECOMES BURIED	
	HOME RUN, DESTINATION SHOWN		
<u>.</u>	HOME RUN, PANEL AND BRANCH O	CIRCUIT SHOWN	
	BURIED RACEWAY		
 	SLASH MARKS ON RACEWAY SYMI CONTAINED THEREIN; LONG SLAS PER NEC OR AS SHOWN		
a a	LIGHT FIXTURE; REFER TO LIGHT I SH. E3 FOR MOUNTING; CONNECT	TO CB PANEL AND B	ABOVE RIGHT, AND TO NOTES RANCH CIRCUIT SHOWN
a \$	LOWER CASE LETTER INDICATES		EDI INE 3' 0" AEE
\$. M	WALL LIGHT SWITCH; SINGLE POLI		
\$ ^M	ENCLOSURE AND COVER PLATE RECEPTACLE OUTLET; DUPLEX; N	EMA CONFIGURATION	N AND RATING 5-15 (2 POLE, 3
Ф² #-	WIRE, 15A, 125V); CLASS A GFI; OU CONNECT TO CB PANEL BRANCH (ITLET BOX CENTERLI CIRCUIT SHOWN (e.g.	NE 3'-9" AFF; WP COVER PLATE; PANEL A CIRCUIT 2)
- 	SAME, EXCEPT QUADRUPLEX (TW	O DUPLEX) AND <u>NOT</u>	GET; MOUNTING HEIGHT 1'± IAT OF ADJACENT 120V OUTLE T
<u> </u>	JUNCTION BOX		
	CONNECT TO ITEM NOT PROVIDED	BY ELECTRICAL	
30/3/15 ∑J 20	COMBINATION MOTOR STARTER; SWITCH, 15A RK5 TIME DELAY FUS		GS SHOWN (e.g. 30A, 3 POLE
	CIRCUIT BREAKER, THERMAL-MAG SHOWN; /2 INDICATES 2 POLE; /3 II		
①	THERMOSTAT	NI BOURIE TOTAL	MOUNT OF STATE
\square	FIRE ALARM MANUAL PULL STATION HEAT DETECTOR; 195°; MOUNT ON		MOUNT 3'-9" AFF
Φ	SINGLE RECEPTACLE OUTLET, 100A		DN = ADJA1034-150;
	MOUNT 3'-9" AFF		

			LIGHT FIXTURE SCHEDULE							
TYPE	SYMBOL	LAMPS								
А		F96 T-12 75W 3500K CRI 70 ⁺								
В		ANSI SPEC S55RN-150	SI SPEC 5RN-150							
С	Q	15W CF EQUAL TO GE FLE15TBX/L/835								
D	R	150W PS-25 IF								
E	\otimes									
F		ANSI CODE #4414								
G	F		FLASHING STROBE LIGHT, WP, WITH BRACKET	EDWARDS = 94R-N5 105BM, OR EQUAL						

ELECTRICAL DRAWING LIST

ELECTRICAL LEGEND LIGHT FIXTURE SCHEDULE **GENERAL NOTES**

ELECTRICAL SITE PLAN

LIGHTING PLAN

ELECTRICAL POWER PLAN

ELECTRICAL DIAGRAMS

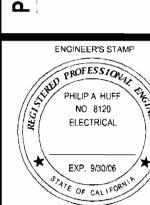
ELECTRICAL DIAGRAMS

METRON PANEL LAYOUT & EXTERNAL HOOKUP MODEL FD2, NEGATIVE OR POSITIVE GND, ENGINE DRIVEN FIRE PUMP CONTROLLER

AS - BUILT

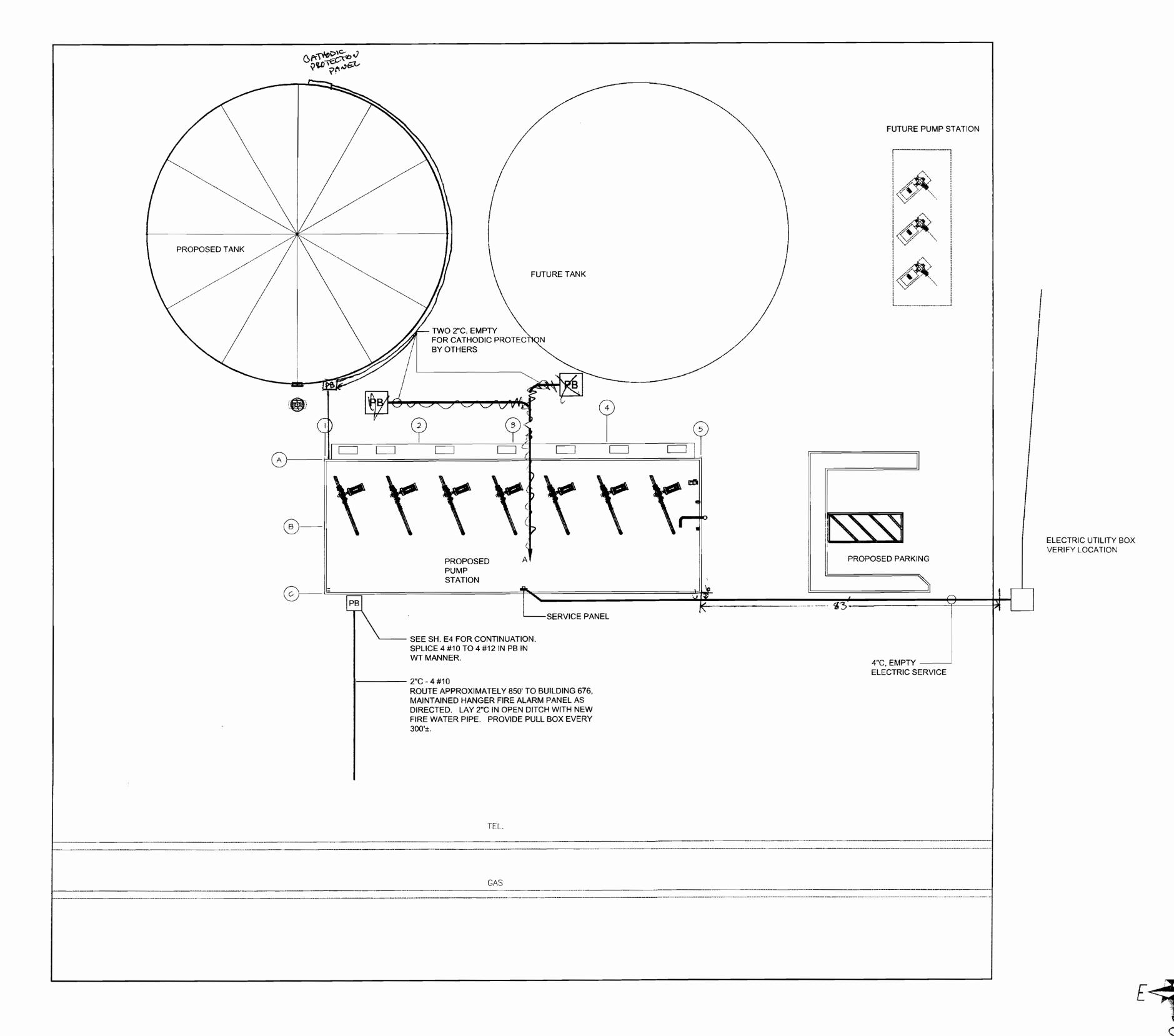
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THE BUILDING



PHILIP A HUFF
NO. 8120
ELECTRICAL

SUPPRESSION **AIRPORT** VICTORVILLE STORAGE



ELECTRICAL SITE PLAN

 BACKFILL WITH NATIVE EARTH FREE FROM ROCKS & DEBRIS. TAMP TO 95% RELATIVE DENSITY (65% IN PLANTED AREAS); ALLOW FOR PAVEMENT OR CONC. WHERE SHOWN ON ARCHITECTURAL AND/OR CIVIL PLANS 6" WIDE WARNING TAPE EQUAL TO TERRA TAPE NO. 540.
IMPRINTED "CAUTION-ELECTRIC LINE BURIED BELOW" - FINE SAND --- CONDUIT (TYP.) CONDUITS CONDUITS **DETAIL- BURIED CONDUITS**

CONCRETE OR PLASTIC BOX, 10" x 17" x MIN. 12" DEEP SET 1" AFG WHERE IN PLANTED AREA LID WITH HOLD-DOWN BOLTS,
 MARK "ELECTRICAL" OR "IRRIGATION" BACKFILL **BURIED PULL BOX**

SCALE: NONE

SCALE: NONE

PHILIP A. HUTT OF NO. 9120 SECTRICAL

REVISIONS

SUPPRESSION AND

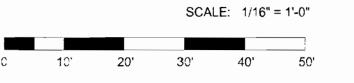
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AS - BUILT

Date: 530.03 Initials: C>5



THE STORAGE AND SUPPRESS VICTORVILLE AIRPORT

EXP. 9/30/06

ELECTRICAL

NO. 8120

PHILIP A. HUFF

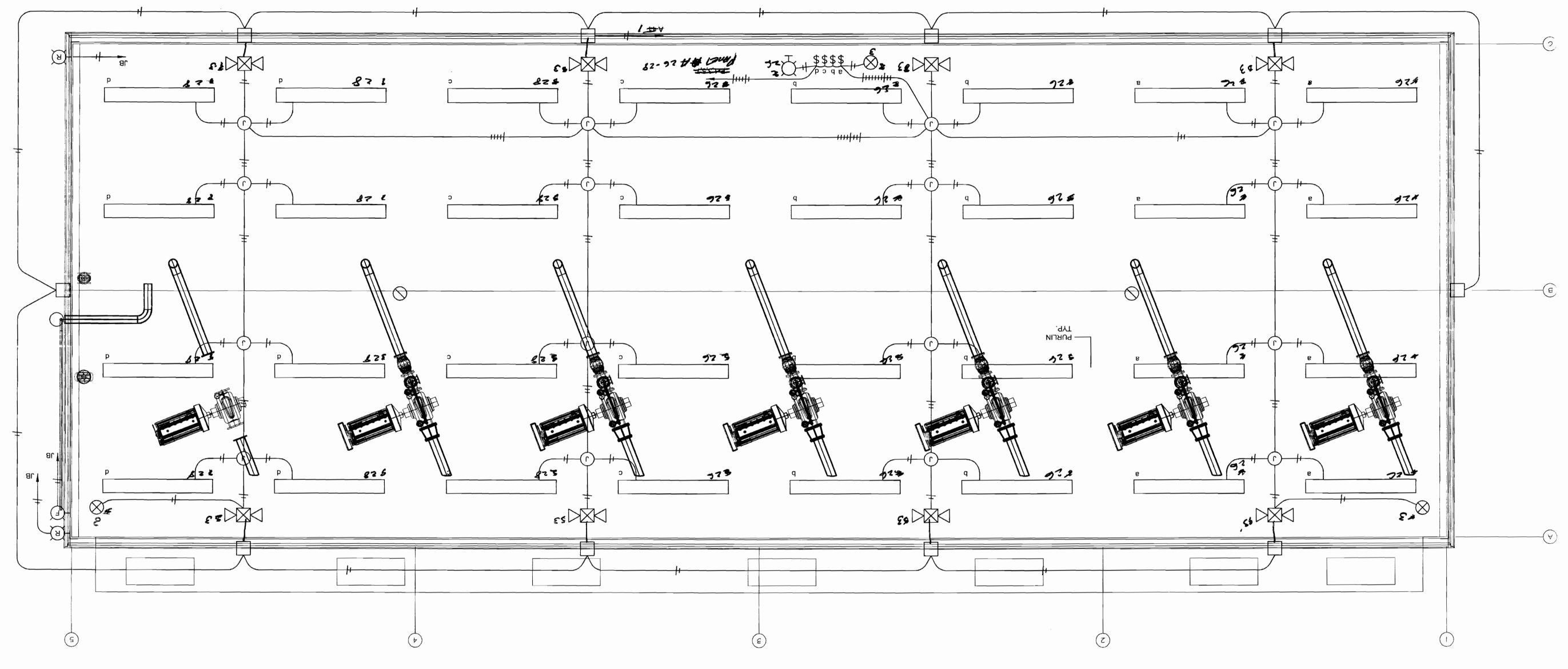
PHILIP A.

ELECTRICAL CONSULTANTS
24340 NORTH PEARL ROAD
ACAMPO, CA 95220
TEL: 209/369-5986
FAX: 209/365-1522
E-Mail: pabuff@admww.net

Fire & Pump Service Group 1513 DelAmo Blvd Carson, Ca 90746 310-223-3990

LE SNOISIABLE

Date 5-30-03 Initials: 20-05-01-11-0"



LIGHTING PLAN

6. CONTROL INTERIOR LIGHT FIXTURES WITH LIGHT SWITCHES, AS SHOWN. DO NOT SWITCH TYPE C
 CONTROLLED BY INTEGRAL PHOTOCELLS.

5. WALL-MOUNT TYPES E & F LIGHT FIXTURES. AIM EMERGENCY LAMPHEADS TO SUIT OWNER.

4. ATTACH LIGHT FIXTURES TYPE C, D, AND G TO BUILDING AT 8'-0" AFG; COORDINATE INSTALLATION OF SUITABLE BACKING WITH FRAMING INSTALLER. MAKE ATTACHMENT AND RACEWAY PENETRATION OF

3. ATTACH LIGHT FIXTURES TYPE B TO BUILDING AT 10' AFG WITH BOLTS EACH CORNER; COORDINATE PROFENS INSTALLER: MAKE ATTACHMENT AND RACEWAY PENETRATION WATERTIGHT.

2. ATTACH LIGHT FIXTURES TYPE A TO PURLINS WITH SUITABLE CLIPS.

1. PROVIDE LIGHT FIXTURES AS SHOWN AND PER LIGHT FIXTURE SCHEDULE, SH. E1, COMPLETE WITH ALL REQUIRED LAMPS AND ACCESSORIES. INSTALL FIXTURES WHERE SHOWN, UNLESS OTHERWISE DIRECTED, AND PER FIXTURE MANUFACTURERS' RECOMMENDATIONS. ROUTE RACEWAYS FOR EXTERIOR FIXTURES INSIDE BUILDING.

NOTES:

1. COORDINATE INSTALLATION OF A UFER GROUND ELECTRODE. ELECTRODE SHALL BE 20' LENGTH OF MINIMUM 1/2" REBAR IN BOTTOM OF FOOTING (SHORTER LENGTHS MAY BE WELDED TOGETHER TO MAKE UP THE 20' LENGTH), WITH 1/2" REBAR RISER WELDED THERETO AND TERMINATED UNDER SERVICE PANEL. CONCRETE-ENCASE RISER EXCEPT FOR 6" EXPOSED UNDER SERVICE PANEL.

AS AN ALTERNATIVE, UFER GROUND ELECTRODE AND RISER (GROUND ELECTRODE CONDUCTOR) SHALL BE ONE CONTINUOUS LENGTH OF BARE SOLID COPPER WIRE, SIZE AS SHOWN ON SINGLE-LINE DIAGRAM. LOCATE MINIMUM 40' OF WIRE IN BOTTOM OF FOOTING AND BOND IT TO REBAR CAGE AT MAXIMUM 10' INTERVALS. AT SERVICE PANEL, COIL 6' OF WIRE FOR CONNECTION TO SERVICE PANEL. WHERE WIRE IS NOT CONCRETE-ENCASED, PROTECT IT WITH CONDUIT.

- 2. MOUNT 480V SERVICE PANEL AND MARK IT WITH FACILITY ADDRESS PER LOCAL ELECTRIC UTILITY REQUIREMENTS EVEN THOUGH THE UTILITY WILL NOT BE INVOLVED. PROVIDE JUMPER 7. RADIO PANEL WILL BE RELOCATED BY OTHERS. PROVIDE INSTALLER WITH ALL NEEDED LINKS IN METER SOCKET AND BLANK COVER OVER SOCKET.
- 3. MOUNT PANELS A, B, AND P WITH TOPS AT 6'-3" AFF. REFER TO SINGLE-LINE DIAGRAM, SH. E5, FOR PANEL FEEDERS AND CONNECTIONS. EQUIP AND WIRE PANELS AS SHOWN, EXCEPT FOR UNAVOIDABLE CHANGES. PROVIDE PANELS WITH TYPED DIRECTORIES PER PANEL DIAGRAMS, EXCEPT REFLECTING AS-BUILT CONDITIONS. INSIDE PANELS, BUNDLE WIRES NEATLY, AND LABEL EACH UNGROUNDED CONDUCTOR WITH BRANCH CIRCUIT NUMBER ADJACENT TO ITS CONNECTION POINT.

LABEL PANELS PER SINGLE-LINE DIAGRAM (e.g. "PANEL A") AND WITH VOLTAGE AND NUMBER OF PHASES WITH ENGRAVED LAMINATED PLASTIC NAMEPLATES, 1/2" HIGH BLACK CHARACTERS ON 10. SECURITY SYSTEM, IF INSTALLED, WILL BE BY OTHERS. WHITE; ATTACH NAMEPLATES WITH RIVETS OR A TWO-COMPONENT EPOXY ADHESIVE.

5. VERIFY RECEPTACLE OUTLET LOCATIONS SHOWN ON THIS DRAWING WITH OWNER AND WITH FIRE PUMP EQUIPMENT PROVIDER JUST PRIOR TO INSTALLING OUTLET BOXES. LOCATION CHANGES SHALL BE AT NO ADDITIONAL COST TO OWNER. BOND EACH OUTLET BOX TO GROUND USING A GROUND WIRE RUN WITH CIRCUIT CONDUCTORS. BOND RECEPTACLE GROUND TERMINALS TO OUTLET BOXES WITH BONDING JUMPERS SIZED PER THE NEC, NOT MERELY BY YOKE OR SCREW CONTACT.

LABEL EACH RECEPTACLE OUTLET COVER PLATE WITH SOURCE PANEL AND BRANCH CIRCUIT NUMBER.

NOTES, CONTINUED

6. PROVIDE FIRE PUMP EQUIPMENT INSTALLER WITH ALL NEEDED ASSISTANCE IN INSTALLING AND CONNECTING HIS EQUIPMENT. PROVIDE ALL NEEDED FIELD RACEWAYS AND CONDUCTORS. WHETHER OR NOT SHOWN. CONNECT STRANDED FIELD CONDUCTORS TO SCREW TERMINALS USING PRE-INSULATED LOCKING FORK TYPE CRIMP TERMINAL LUGS. UNIQUELY LABEL EACH FIELD CONDUCTOR, EACH END, TO SUIT FIRE PUMP EQUIPMENT INSTALLER OR AS SHOWN. NEATLY BUNDLE AND SECURE FIELD WIRING INSIDE PANELS.

LABEL EACH FIRE PUMP ELECTRICAL CONNECTION BOX AND FIRE PUMP CONTROLLER ENCLOSURE (e.g. "FIRE PUMP NO. 1") WITH ENGRAVED LAMINATED PLASTIC NAMEPLATE, 3/4" HIGH WHITE CHARACTERS ON RED; ATTACH NAMEPLATES WITH RIVETS OR A TWO-COMPONENT EPOXY ADHESIVE. SIMILARLY LABEL JOCKEY PUMP MOTOR CONNECTION BOX AND PUMP CONTROLLER ENCLOSURE TO SUIT OWNER WITH ENGRAVED LAMINATED PLASTIC NAMEPLATE, EXCEPT 1/2" HIGH CHARACTERS.

- ASSISTANCE AND WIRING.
- MOUNT MANUAL MOTOR STARTERS TO UNIT HEATERS IN LOCATIONS NOT REQUIRING REMOVAL FOR ROUTINE MAINTENANCE AND SO AS TO NOT OBSCURE NAMEPLATES OR INSTRUCTIONAL DATA. LABEL MANUAL MOTOR STARTERS WITH SOURCE PANEL AND BRANCH CIRCUIT NUMBER.
- 9. THERMOSTATS WILL BE PROVIDED BY M.C. FOR EACH THERMOSTAT, PROVIDE A SUITABLE OUTLET BOX, PROPERLY ORIENTED, WITH 3/4"C, EMPTY, RUN TO WALL EXHAUST FAN MOTOR CONTROLLER OR TO PROPER UNIT HEATER.

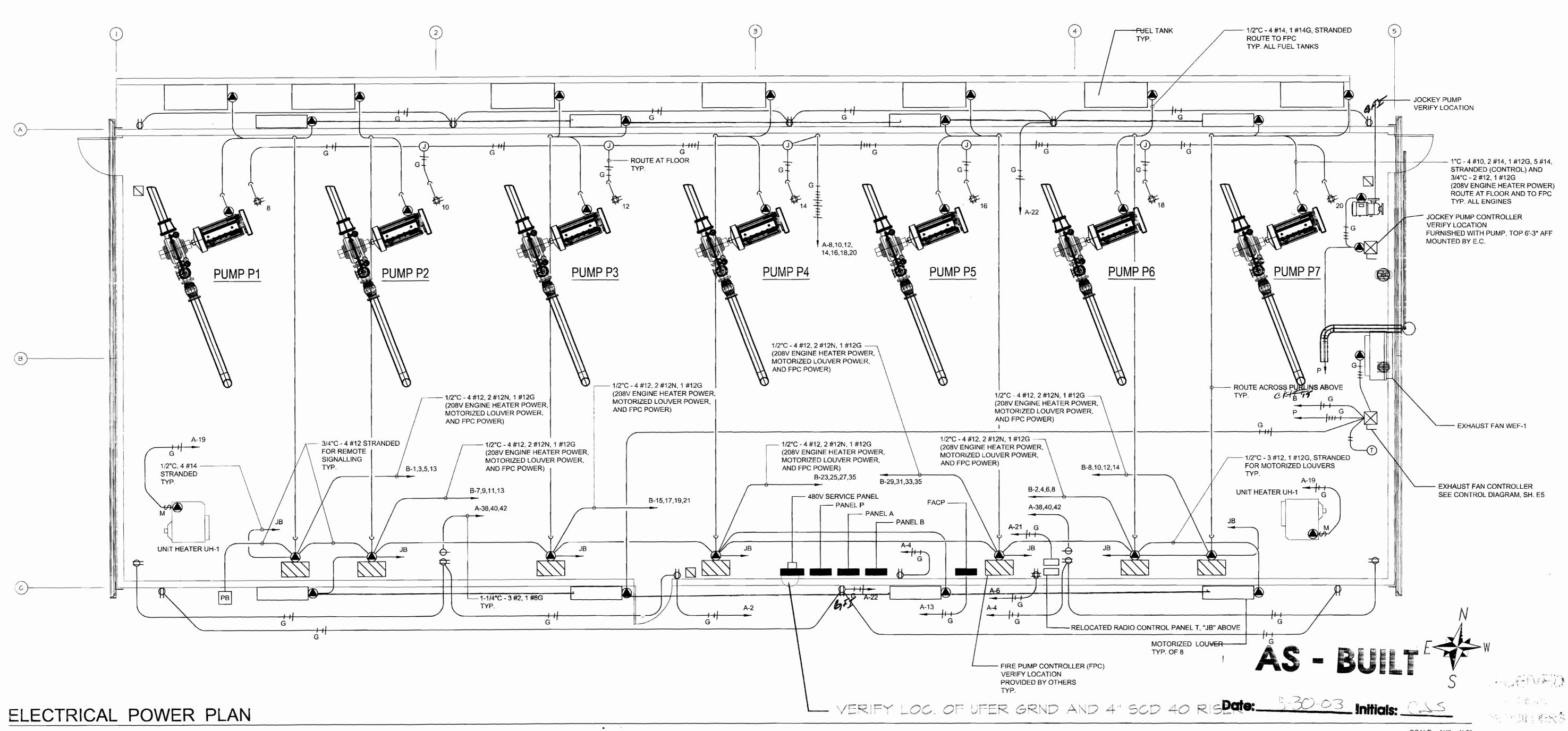
REVISIONS

ENGINEER'S STAMP NO. 8120 ELECTRICAL

IRPORT

TORVIL

SCALE: 1/4" = 1'-0"



		PANI	EL A		
LOAD	DIRECTORY	20	20	DIRECTORY	LOAD
	SPARE	20	2 20	OUTLETS	9.0A
	SPARE	20 3	4 20	OUTLETS	9.0A
	SPARE	20 5	6 20	OUTLETS	6.0A
	SPARE	20 7	8 20	OUTLETS	6.0A
_	SPARE		10	OUTLETS	6.0A
5.0A	BUILDING EXTERIOR LIGHTING	20	12 20	OUTLETS	6.0A
	FIRE ALARM CONTROL PANEL	15	14 20	OUTLETS	6.0A
	TANK CATHODIC PROTECTION	20 15	16 20	OUTLETS	6.0A
	SPARE	20	18 20	OUTLETS	6.0A
-	UNIT HEATERS	20	20	OUTLETS	6.0A
	PANEL "JB"	15	20	OUTLETS	10.5A
	SPARE	20 23	24	SPARE	
	SPARE	20 25	26	SPARE	
	SPARE	20 27	28	SPARE	
	SPARE	20 29	30	SPARE	
	SPACE	3	32/	SPACE	
	SPACE		34	SPACE	
	SPACE	35	36~	SPACE	
	SPACE	37	100 38	SI AGE	
		39	40	DOWER OUT ETC	
	SPACE	41	42	POWER OUTLETS	
	SPACE				

225A MAIN CIRCUIT BREAKER 208/120V, 3 PHASE, 4 WIRE ENCLOSURE NEMA 12/3R, 20" WIDE COPPER BUS BARS 225A FEED-THRU LUGS (TFL) BONDED COPPER GROUND BUS BAR, 30 CIRCUIT CIRCUIT BREAKERS 10,000A IR, BOLT-ON DIRECTORY CARD UNDER PLASTIC IN METAL FRAME EQUAL TO SQUARE D CLASS 1630

		PAN	EL P		
LOAD	DIRECTORY	20	70	DIRECTORY	LOAD
5.0A	LIGHTING - BAY 1	20	2		
5.0A	LIGHTING - BAY 2	20 3	4	JOCKEY PUMP	7-1/2 HP
5.0A	LIGHTING - BAY 3	5 20	6 30		
5.0A	LIGHTING - BAY 4	20 7	8		
	SPARE (FUTURE LIGHTING - BAY 5)	20 9	10	EXHAUST FAN WEF-1	5 HP
	SPACE		12		
	SPACE		14	SPACE	
	SPACE		16	SPACE	
	SPACE		18	SPACE	
	SPACE		20/_	SPACE	
	SPACE	2	22/	SPACE	
	SPACE	23	24/	SPACE	
	SPACE	25	26~	SPACE	
	SPACE	27	28	SPACE	
	SPACE	29	30~	SPACE	
	SPACE	31	32	SPACE	
	SPACE		34	SPACE	
	SPACE	35	36	SPACE	
	SPACE	37	38	SPACE	
	SPACE	39	40~	SPACE	
	SPACE	41	42	SPACE	

250A MAIN LUGS WITH SUBFEED LUGS, ALL CU 480/277V, 3 PHASE, 4 WIRE, 30 CIRCUIT ENCLOSURE NEMA 12/3R, 20" WIDE COPPER BUS BARS BONDED COPPER GROUND BUS BAR, 30 CIRCUIT CIRCUIT BREAKERS 18,000A IR, BOLT-ON DIRECTORY CARD UNDER PLASTIC IN METAL FRAME EQUAL TO SQUARE D CLASS 1670

					MA` ATT
		PAN	EL B		
_OAD	DIRECTORY	20	20	DIRECTORY	LOAD
10A	FIRE PUMP 1 CONTROLLER	20	2 20	FIRE PUMP 6 CONTROLLER	10A
9.4A		3	4 1	FIDE DUMP C ENGINE HEATED	9.4A
9.4A	FIRE PUMP 1 ENGINE HEATER	5 20	6 20	FIRE PUMP 6 ENGINE HEATER	9.4A
10A	FIRE PUMP 2 CONTROLLER	20	8 20	MOTORIZED LOUVER BAY 4	
9.4A	SIDE DUMO O SMOINE MEATED	7 9	10 20	FIRE PUMP 7 CONTROLLER	10A
9.4A	FIRE PUMP 2 ENGINE HEATER	20	12	FIDE DUMAP A ENGINE HEATED	9.4A
	MOTORIZED LOUVER BAY 1	20 13	14 20	FIRE PUMP 7 ENGINE HEATER	9.4A
10A	FIRE PUMP 3 CONTROLLER	20 15	16 20	SPARE	
9. 4A		<u> </u>	18	00405	
9.4A	FIRE PUMP 3 ENGINE HEATER	20	20 20	SPARE	
	MOTORIZED LOUVER BAY 2	20 21	22 20	SPARE	
10A	FIRE PUMP 4 CONTROLLER	23	24	ODADE.	
9. 4A		25	26 20	SPARE	
9.4A	FIRE PUMP 4 ENGINE HEATER	27	28 20	SPARE	
10A	FIRE PUMP 5 CONTROLLER	29	30 20	SPARE	
9.4A		31	32 20	SPARE	
9. 4A	FIRE PUMP 5 ENGINE HEATER	20	34 20	SPARE	
	MOTORIZED LOUVER BAY 3	35	36/	SPARE	
	SPACE		38/	SPACE	
	SPACE	39	40/	SPACE	
	SPACE	4	42/	SPACE	

225A MAIN LUGS

COPPER BUS BARS

208/120V, 3 PHASE, 4 WIRE

ENCLOSURE NEMA 12/3R, 20" WIDE

EQUAL TO SQUARE D CLASS 1630

LOAD CALCULATIONS PANEL A <u>ФС</u> **EXTERIOR LIGHTING:** 15.0A x 1.25 15.0A x 1.25 FACP: USE 6.0A TANK CATHODIC PROTECTION: USE 6.0A POWER OUTLETS: PRIMARILY FOR ONE WELDER, USE 50A 50.0 OUTLETS: 27.0 27.0 34.5 PANEL B: USE 225A PANEL, 225A MAIN CB, 225A FEED, 4/0 CU (230A @ 75°C) NEUTRAL: 93.3 + (225 - 189.1) = 129.2A USE 3/0 CU (200A @ 75° C) <u>PANEL B</u> FIRE PUMP CONTROLS: est. 10A 10.0A x 3 10.0A x 4 ENGINE HEATERS: 3000W @ 240V, 9.4A @ 208V 87.0A 85.8A 86.4A USE 225A PANEL, 225A FEED, 4/0 CU (230A @ 75° C) NEUTRAL: 40.0 + (225 - 87.0) = 178.0 A USE 3/0 CU (200A @ 75° C) TRANSFORMER: LOAD (ENGINES NOT RUNNING): $(169.4 + 170.0 + 189.1 - 15.0 \times 0.25) \times 0.120 = 63.0 \text{ kVA}$ LOAD (ENGINES RUNNING): $(169.4 - [50.0 + 9.4 \times 5] + 170.0 - [50.0 + 9.4 \times 5] + 189.1 - [15.0 \times 0.25 + 50.0 + 9.4 \times 5]$ 9.4×7) × 0.120 = 25.8 kVA USE 75 kVA 63.0/(0.480?3) = 75.8A @ 480V 25.8/(0.48?3) = 31.0A SECONDARY: 75/(0.208?3) = 208.3A 208.3 x 1.25 = 260.4A 225A PANEL A MAIN CB ok PRIMARY: 75/(0.480?3) = 90.2A 90.2 x 2.5 = 225.5A 200A SERVICE PANEL MAIN CB ok PANEL P AND SERVICE PANEL (ENGINES NOT RUNNING) TRANSFORMER: 75.8A 75.8A JOCKEY PUMP: 7-1/2 HP, 460V, 3Φ, USE NEC 11A MCA: $11.0 \times 1.25 = 13.8 \text{A}$ USE #12 CU (25A @ 60° C) MOCP & CB: LOCKED ROTOR CURRENT = 64A, USE 70A FUSES & CB 70.0 70.0 EXHAUST FAN WEF-1: 5 HP, 208-230/460V, 3Φ, USE NEC 7.6A 7.6 MCA: $7.6 \times 1.25 = 9.5 \text{A}$ USE #12 CU (25A @ 60° C) MOCP: 7.6 x 1.75 = 13.3A USE 12A FUSE BONDED COPPER GROUND BUS BAR, 30 CIRCUIT CB: 7.6 x 2.5 + (25 – 13.3) = 19.0 + 11.7 = 30.7A USE 30A CIRCUIT BREAKERS 10,000A IR, BOLT-ON DIRECTORY CARD UNDER PLASTIC IN METAL FRAME 163.8A 163.8A PANEL P AND SERVICE PANEL (ENGINES RUNNING) TRANSFORMER: 31.0A 31.0A JOCKEY PUMP: 7-1/2 HP, 460V, 3Φ, NOT RUNNING ------

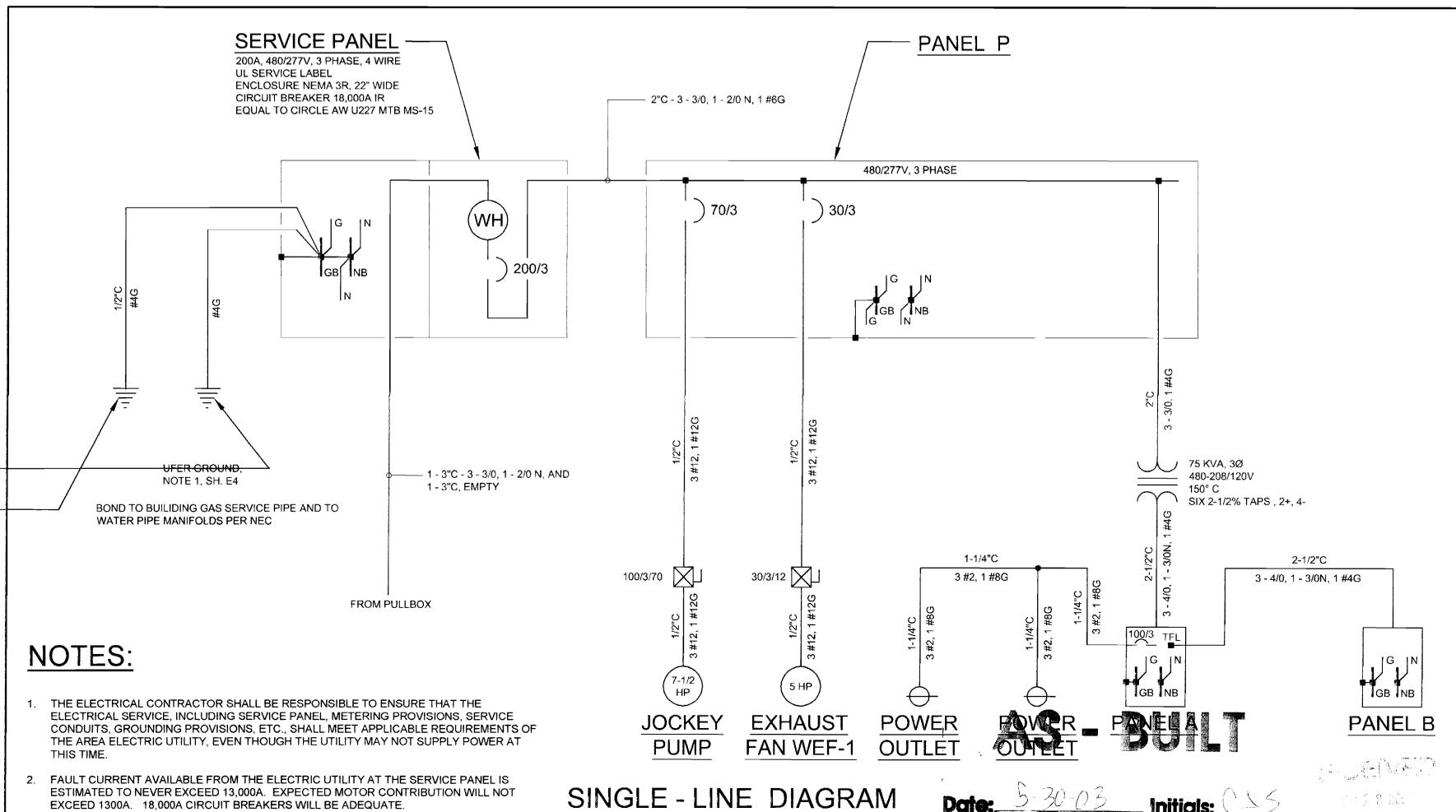
EXHAUST FAN WEF-1: 5 HP, 460V, 3Φ, USE 30A CB

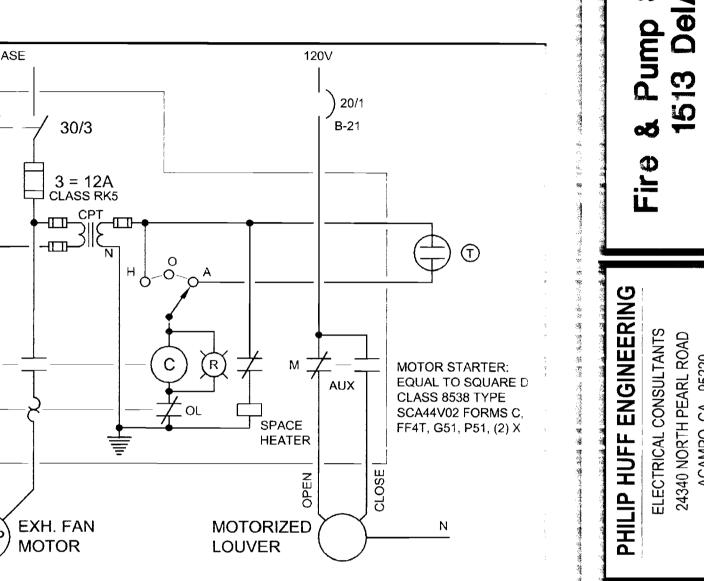
NEUTRAL: USE 2/0 CU (175A @ 75° C)

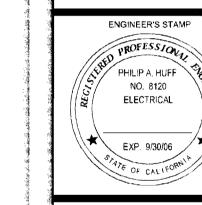
ESTIMATED TO NEVER EXCEED 13,000A. EXPECTED MOTOR CONTRIBUTION WILL NOT

EXCEED 1300A. 18,000A CIRCUIT BREAKERS WILL BE ADEQUATE.

- - -34.5 10.0A x 2 10.0×4 40.0A 480, 3 PHASE 120V 30/3 CLASS RK5 CPT _{1—}___}} HEATER - - -- - -(5 HP) EXH. FAN MOTORIZED LOUVER 61.0A 61.0A CONTROL DIAGRAM - EXH. FAN WEF-1 USE 200A SERVICE PANEL AND 250A PANEL P, 200A MAIN CIRCUIT BREAKER, 3/0 CU (200A @ 75° C)





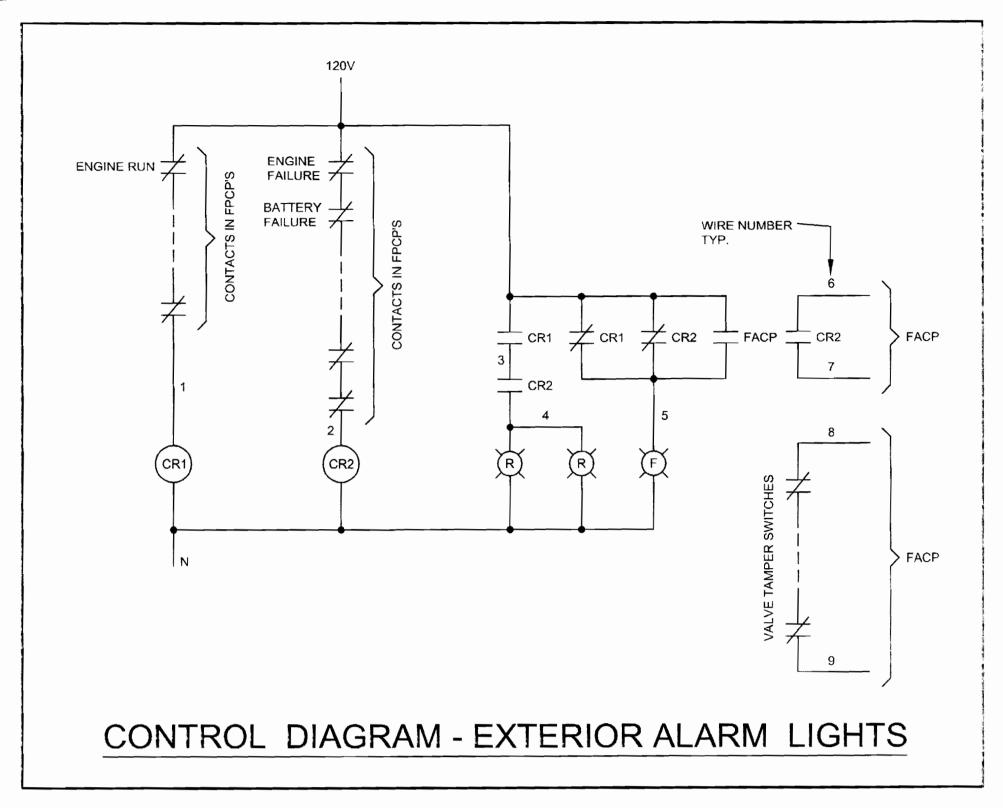


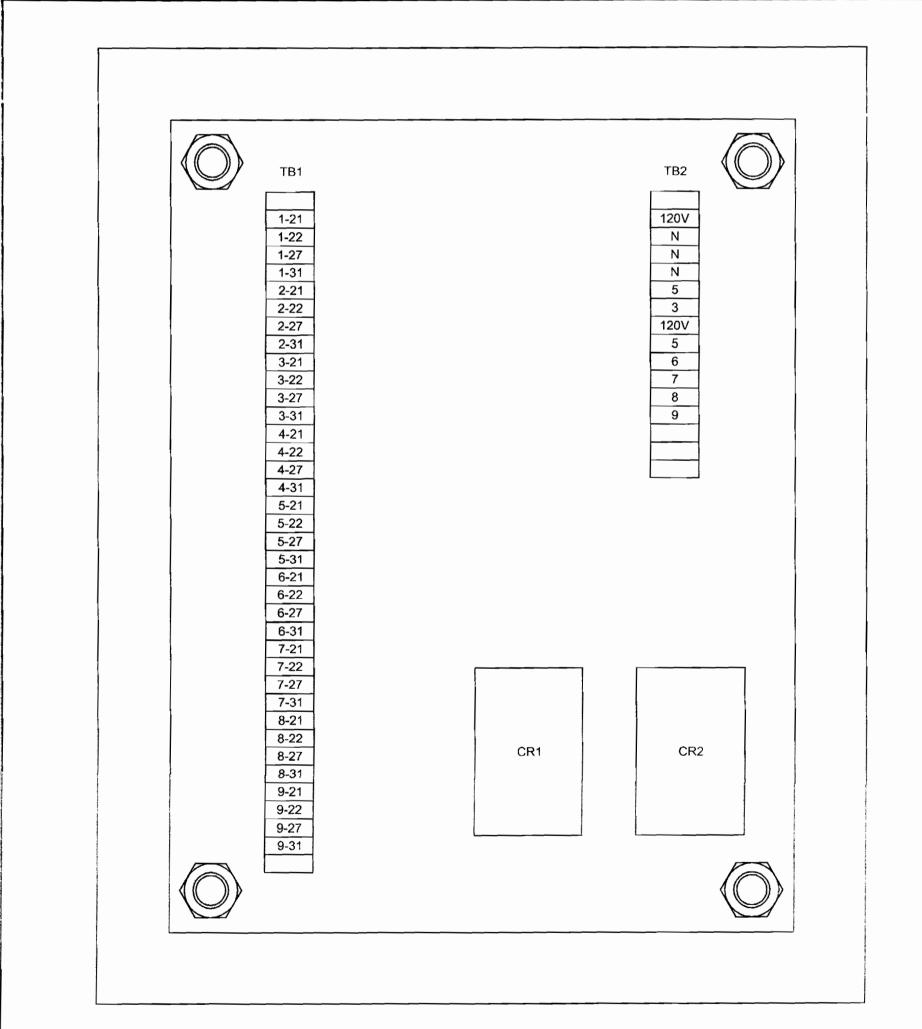
REVISIONS

SUPPRE **AIRPORT** VICTORVIL

TORVIL STORAGE

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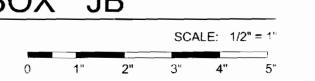


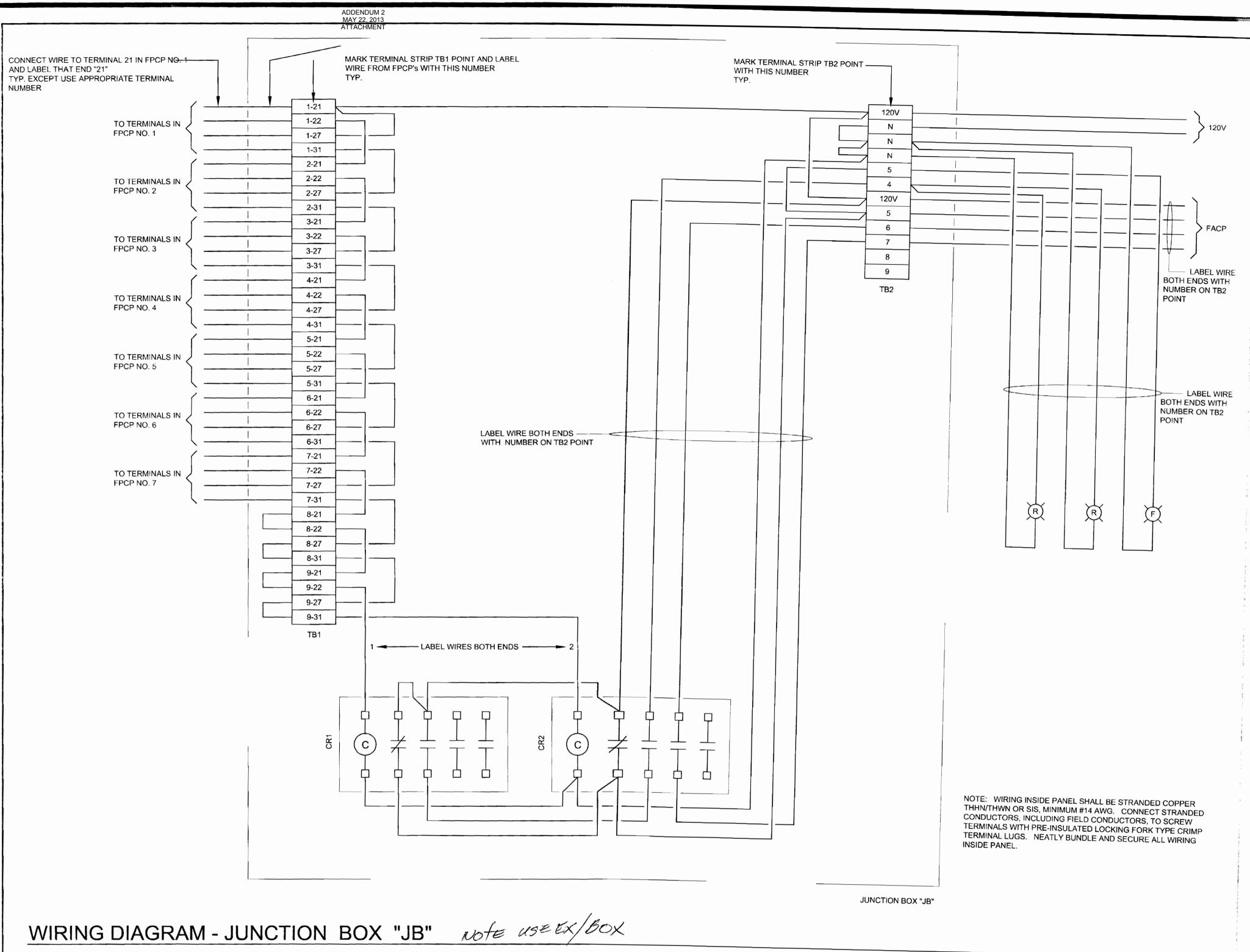


ENCLOSURE: EQUAL TO CIRCLE AW CATALOG NUMBER 20167-12CHSC CR1, CR2: CONTROL RELAY EQUAL TO SQUARE D CLASS 8501 TYPE XO40V02 TB1, TB2: TERMINAL BLOCK, LENGTH AS REQUIRED, EQUAL TO SQUARE D CLASS 9080 TYPE GA6 WITH END BARRIERS AND MARKING STRIP

NOTE: LABEL ENCLOSURE "JB" WITH ENGRAVED LAMINATED NAMEPLATE, 3/4" HIGH WHITE CHARACTERS ON RED; ATTACH NAMEPLATE WITH RIVETS OR A TWO-COMPONENT EPOXY ADHESIVE.

INTERIOR ELEVATION - JUNCTION BOX "JB"





AS - BU[

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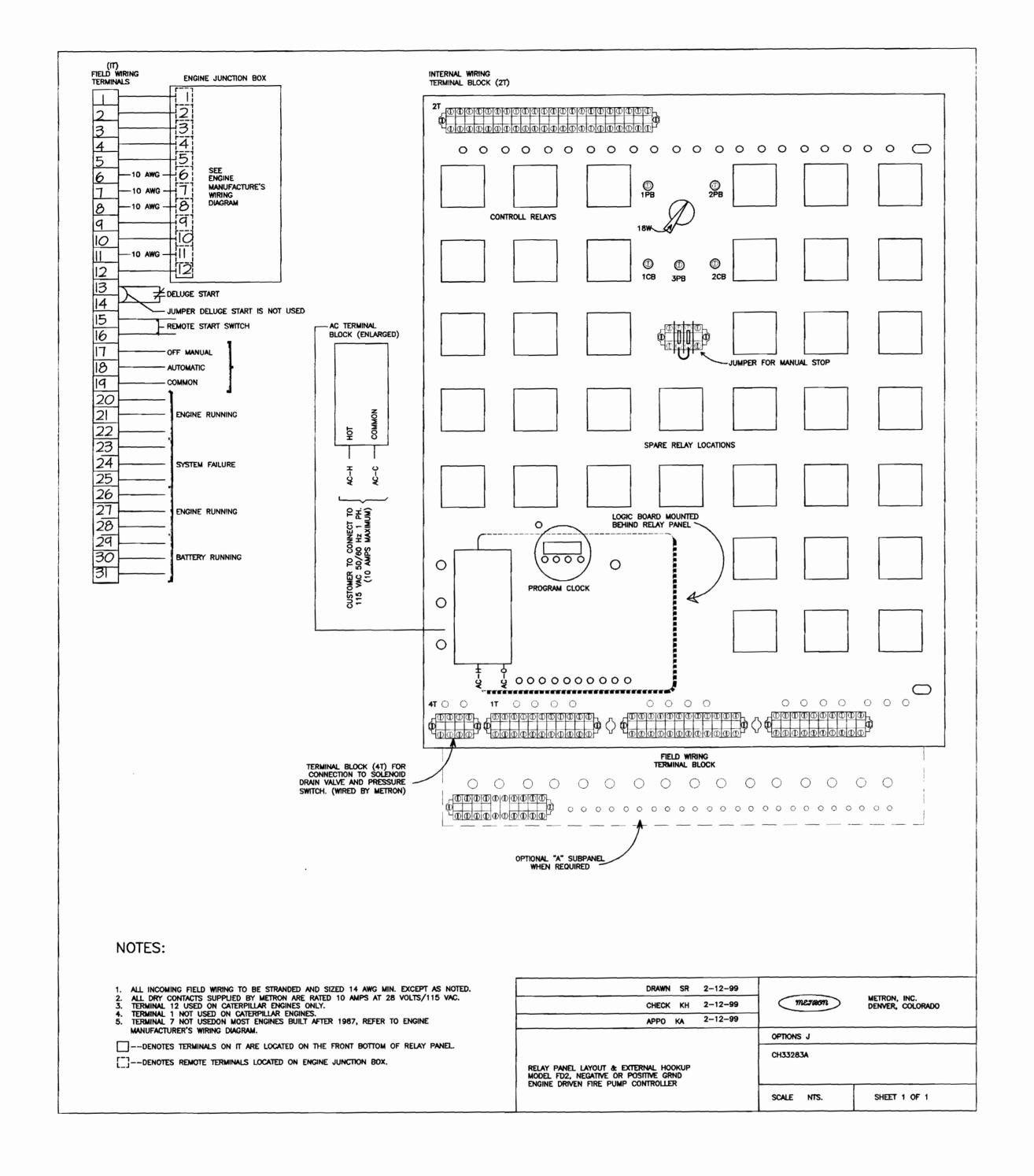
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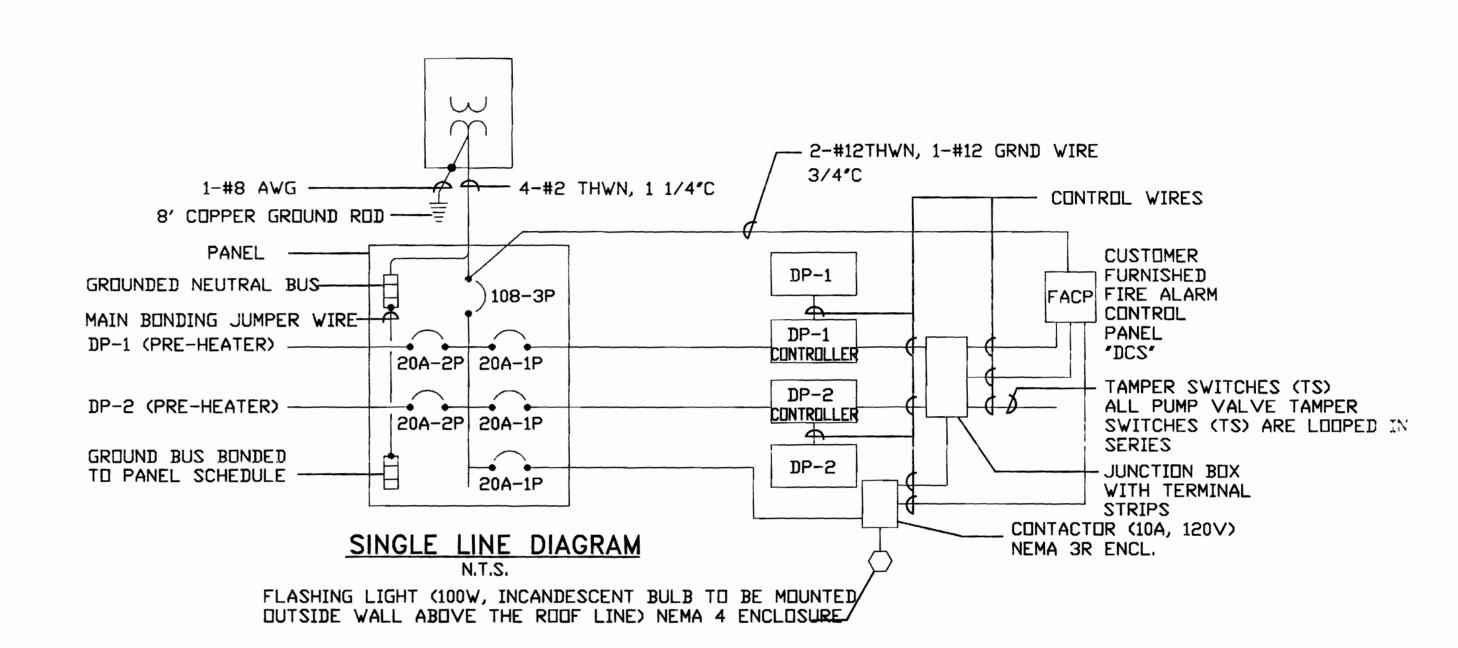
ELECTRICAL

SUPPRESSION

STORAGE

REVISIONS





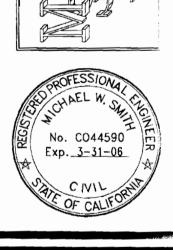
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Date: 53003 Initials: 05

I FILL WELL

Service Group MAmo Blvd Ca 90746 LIC. NO. 78694 ire & Pump { 1513 Del/ Carson, (-223-3990 mz

REVISIONS

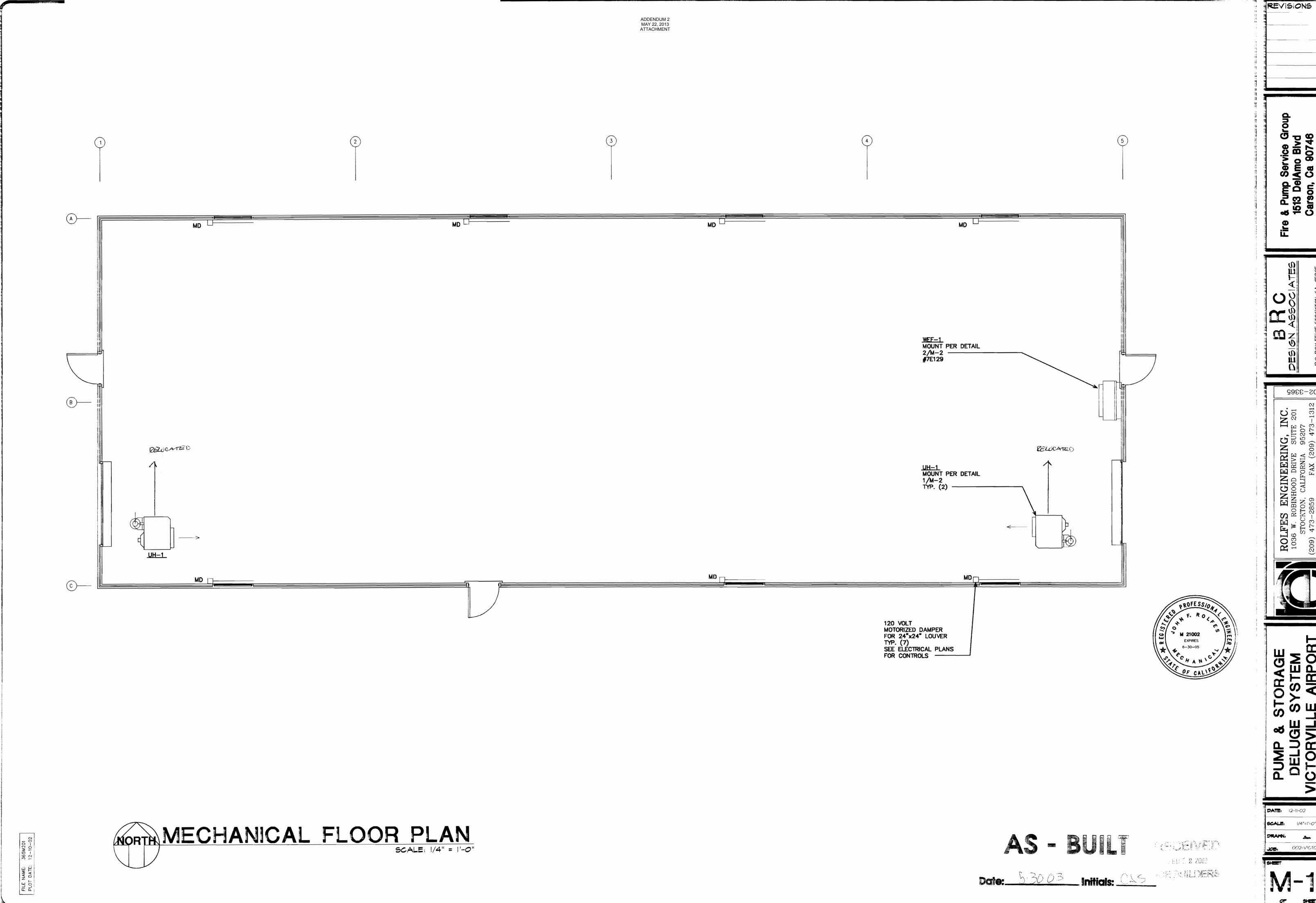


PUMP & ST DELUGE SY VICTORVILLE VICTORVILLE

SCALE: 1/4"=1'-0" 002-VICTORVILLE

05:27:17

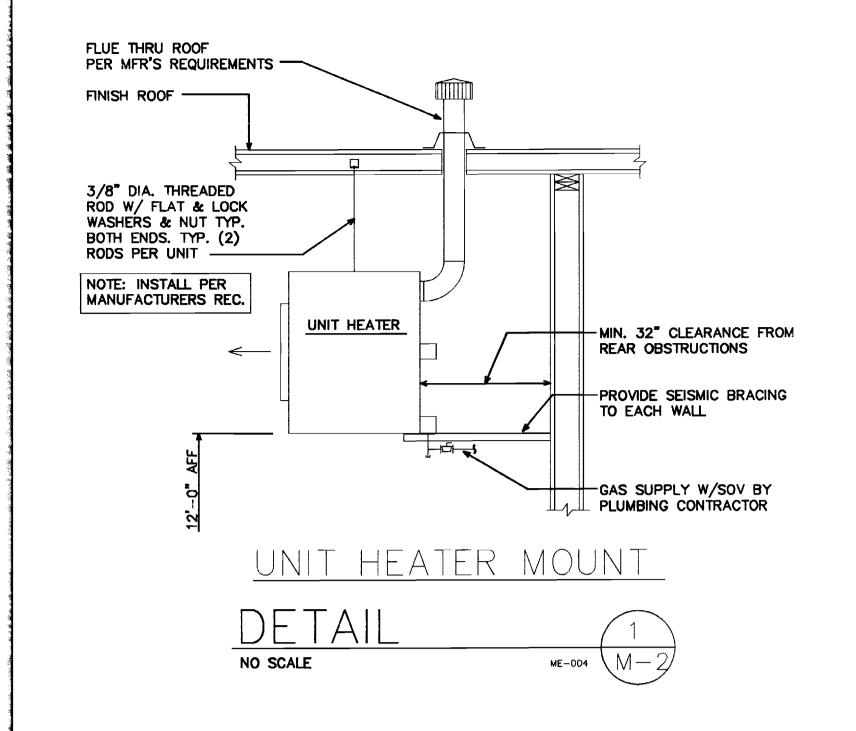
02/11/2003

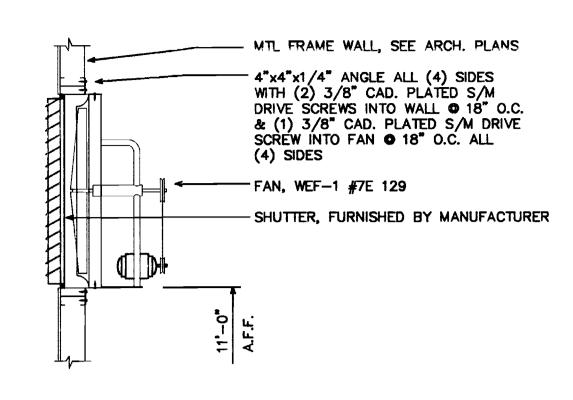


ROLFES ENGINEERING, I. 1036 W. ROBINHOOD DRIVE SUITE STOCKTON, CALIFORNIA 95207 (209) 473-2859 FAX (209) 473 CALIF. P.E. #21002 NEVADA P.E. # Copyright © 2002 Rolfes Engineering, Inc.

002-VICTORVILLE

02/11/2003 05:58:21 AM





WEF-1	WALL	MOU	NT
DETAIL NO SCALE		MX-011	2 $M-2$

MARK	MAKE & MODEL	DESCRIPTION	CAPACITY	ELECTRICAL CHARACTERISTIC	REMARKS/OPR WT.
WEF-1	DAYTON 7E129	WALL EXHAUST FAN	20500 CFM) HP 208 3 300#	
UH-1	REZNOR UDAS-200	UNIT HEATER	200 MBH INPUT, 166 MBH OUTPUT 4.6 1.0 200 100 1370 EACH	FLA 115 1 15.0 M FLA 24	OCP 190#

ME	CHANICAL LEGEND			
SYMBOL	ITEM	ABBREV		
\	RECTANGULAR DUCT SIZE			
	NET INSIDE DIMENSION(INCHES) DUCT WITH 1" ACOUSTIC LINING			
	NET INSIDE DIMENSION(INCHES)			
M	SUPPLY AIR DUCT SECTION OUTSIDE AIR DUCT SECTION	S.A. 0.S.A.		
	RETURN AIR DUCT SECTION	R.A.		
	EXHAUST AIR DUCT SECTION V.D. — VOLUME DAMPER	E.A. V.D.		
FD VD	F.D. – FIRE DAMPER	F.D.		
* ' A	AIR TURNING VANES			
<u>₹ ~ ₹</u>	AIR EXTRACTOR			
₹ ■■	FLEXIBLE DUCT CONNECTIONS	F.C.		
£6"43	ROUND SUPPLY AND INSIDE DIAMETER			
€ <u>6*</u> ф°	ROUND RETURN AND INSIDE DIAMETER			
↑ 370 F CS-4 12x12	FIRST LETTER LOCATION: CS-4 SECOND LETTER SERVICE: NUMBER-TYPE: FIRST LETTER CEILING FLOOR WALL SECOND LETTER SUPPLY RETURN EXHAUST SEE SCHED.			
370 F CR-1 12x12	370 € - CUBIC FEET PER MINUTE 12x12 - NECK SIZE - INCHES			
<u> </u>	THERMOSTAT , UNIT No.	TSTAT		
म भ द	CLOCK BYPASS, NITESTAT, CLOCK			
	GALVANIZED SHEET METAL	S/M		
	ABOVE FINISH FLOOR	AFF		
	NEW	(N)		
	EXISTING (SHOWN LIGHT)	(E)		
	EXISTING TO BE REMOVED(SHOWN DASHED)	(E)		
P.O.C.	POINT OF CONNECTION	P.O.C.		
♠ C.O.P.	CUT OFF POINT	C.O.P.		

Λ	ID CONDITIONING NOTES
<u> </u>	IR CONDITIONING NOTES
	FURNISH AND INSTALL COMPLETE AND OPERATING HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS INCLUDING, BUT NOT NECESSARILY LIMITED TO DUCTWORK, GRILLES, AND CONTROL WIRING, ETC.
2.	ALL WORK, MATERIAL AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS ADOPTED AND AMENDED BY THE INSPECTING AUTHORITY HAVING JURISDICTION. NOTHING IN THESE PLANS IS BE CONSTRUCTED TO PERMIT THE INSTALLATION OF WORK, MATERIAL OR EQUIPMENT NOT CONFORMING TO THESE OR OTHER CODES APPLICABLE TO THIS PROJECT:
	A. 1997 UBC and 2001 CALIFORNIA AMENDMENTS B. 2000 UPC and 2001 CALIFORNIA AMENDMENTS C. 2000 UMC and 2001 CALIFORNIA AMENDMENTS D. 1999 NEC and 2001 CALIFORNIA AMENDMENTS E. 1997 UFC and 1998 CALIFORNIA AMENDMENTS F. NATIONAL FIRE PROTECTION ASSOCIATION, 1996 EDITION G. TITLE 19, CALIFORNIA CODE OF REGULATIONS
3.	WORKMANSHIP:
	ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER ACCORDING TO THE BEST TRADE PRACTICE BY THOSE SKILLED IN THE PARTICULAR TRADE. EQUIPMENT, DUCTS, GRILLES, ETC., SHALL BE PLUMB, LEVEL, SQUARE, OR CENTERED, ETC., TO GIVE A NEAT AND PLEASING APPEARANCE. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS.
•	AVAILABLE POWERS AIR CONDITIONING CONTRACTOR SHALL CONFIRM ALL SYSTEM VOLTAGES BEFORE BIDDING OR ORDERING EQUIPMENT AND ALLOW FOR BUCK AND BOOST TRANSFORMERS IF REQUIRED.
5.	AR BALANCE: THE AIR DISTRIBUTION SYSTEM(S) SHALL BE BALANCED TO DELIVER SPECIFED AIR QUANTITES, FOLLOWING THE PROCEDURES OF THE LATEST EDITION OF THE SMACMA PUBLICATION: "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING AND BALANCING OF ENVIRONMENTA SYSTEMS". CONTRACTOR SHALL PROVIDE ACCESSIBLE AND ADJUSTABLE VOLUME DAMPERS AS REQUIRED TO BALANCE SYSTEM(S) AND MAINTAIN A NOISE CRITERIA(NC) LEVEL NOT TO EXCEED 30. THE AIR BALANCE CONTRACTOR SHALL PROVIDE AIR BALANCE REPORT PRIOR TO FINAL INSPECTION.
6.	PERMITS AND UTILITY SERVICE FEES: CONTRACTOR TO ARRANGE AND PAY FOR ALL PERMITS, INSPECTIONS AND SERVICE CHARGES REQUIRED IN THE INSTALLATION OF THE WORK.
7.	EXISTING INFORMATION: LOCATION, SIZE, MATERIAL, ETC., OF EXISTING SYSTEMS, ETC., IS PROVIDED FROM SOURCES DEEMED RELIABLE BUT IS NOT GUARANTEED. CONTRACTOR TO FIELD VERIFY ALL DATA BEFORE PROCEEDING WITH ANY WORK.
	NO EXTRA COST WILL BE ALLOWED FOR CONDITIONS NOT AS SHOWN.



AS - BUILT

Date: 530-03 Initials: 055

ED 3 2 2003 CEPUILDENS

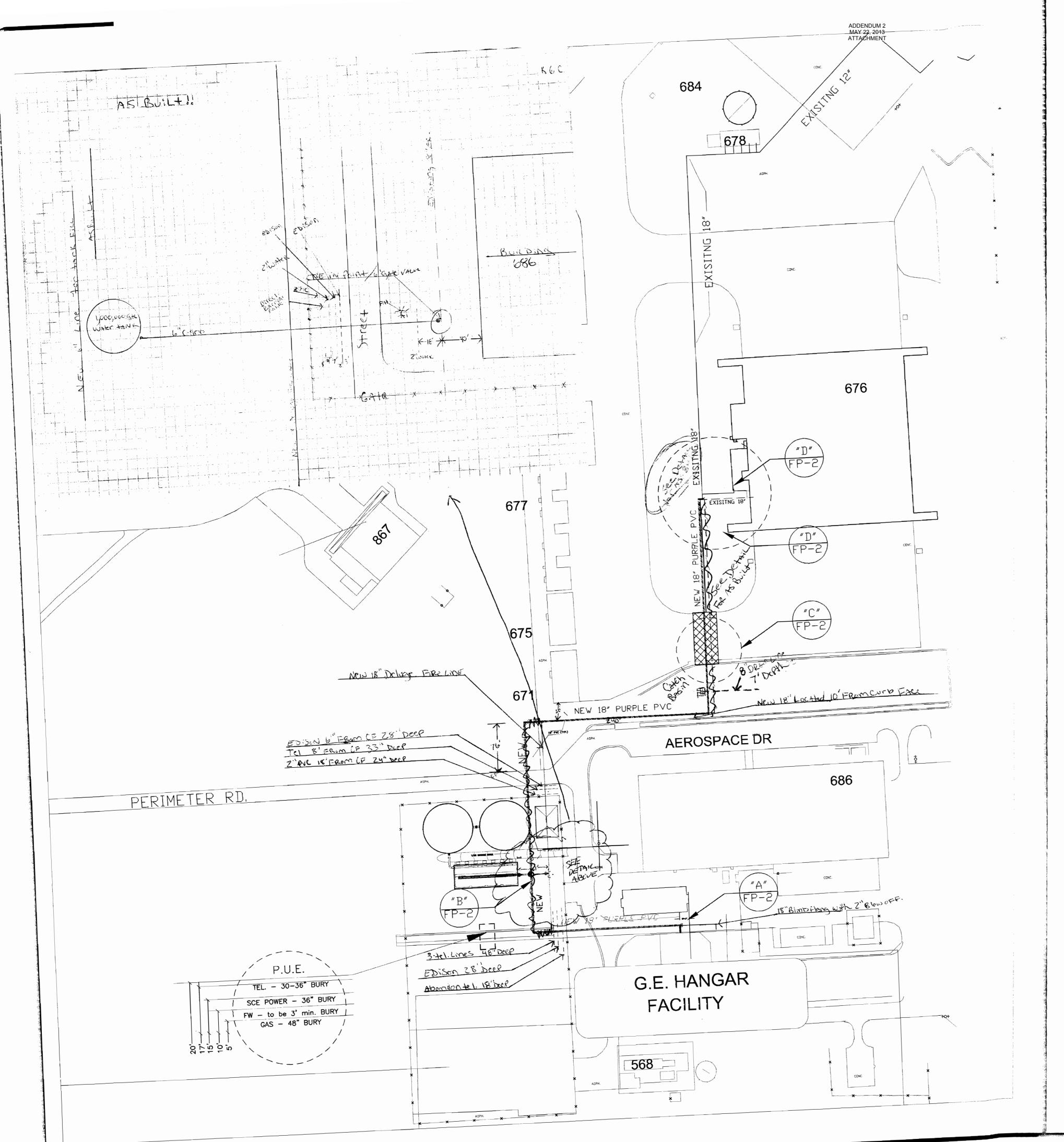
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3955-S0

ROLFES ENGINEERING, INC.
1036 W. ROBINHOOD DRIVE SUITE 201
STOCKTON, CALIFORNIA 95207
(209) 473–2859 FAX (209) 473–1312
CALIF. P.E. #21002 NEVADA P.E #7033

REVISIONS

PUMP & STORAGE DELUGE SYSTEM VICTORVILLE AIRPORT VICTORVILLE, CA.



GENERAL NOTES

I) INSTALLATION & TESTING PER 2002 NFPA 13, 24, OSHA/CALOSHA & CALTRANS STDS.

2) PIPE TO BE C-900 235 PSI PURPLE PVC OR MARKED FOR RECLAIMED WATER PER CAL TRANS AND CA WATER CODE III6815 FOR RECYCLED WATER STANDARDS.

3) USE DI FLANGED FITTINGS FROM THE PUMP HOUSE TO THE BULL HEAD TEE IN THE STREET. ALL OTHER FITTING TO BE D.I.

4) PROVIDE NEW 6" PVC PIPING, ROAD BOX, HOT TAP AND U.G. TO CONNECT TO IM GAL. TANK VALVE. ROAD BOX COVER TO IDENTIFY SERVICE. USE APPROVED BACK FLOW PREVENTER.

5) STOCKPILE IN ONE PLACE AND OR COORDINATED WITH OWNERS AGENT & DISPOSE OF JOBSITE SPOILS OFFSITE.

6) REPLACE ASPHALT. AFTER THREE WEEKS, REFILL, RECOMPACT AND SEAL EDGES TO BRING ASPHALT LEVEL WITH EXISTING IF REQUIRED BY OWNERS AGENT. RECYCLED ASPHALT MAY BE USED.

7) USE NFPA FORMS FOR TESTING REPORTS.

8) ALL UNFINISHED WORK IN ACTIVE ROADWAYS MUST BE PLATED AND HAVE ROAD CONTROL.

9) MAINTAIN ADEQUATE PASSAGE FOR DAILY FLOW OF TRAFFIC.

10) MIN. 3' BURY AND TRACE WPURPLE METALIC TAPE AND WIRE 12" ABOVE PIPE.

II) ALL MATERIALS TO BE APPROVED PRIOR TO INSTALLATION BY OWNERS AGENT

12) INSTALL CONDUIT AND PULL BOXES IN SAME DITCH WITH NEW FW PIPING.

13) TRAFFIC CONTROL PLAN TO BE FILED BY CONTRACTOR WITH AUTHORITY HAVING JURISDICTION.

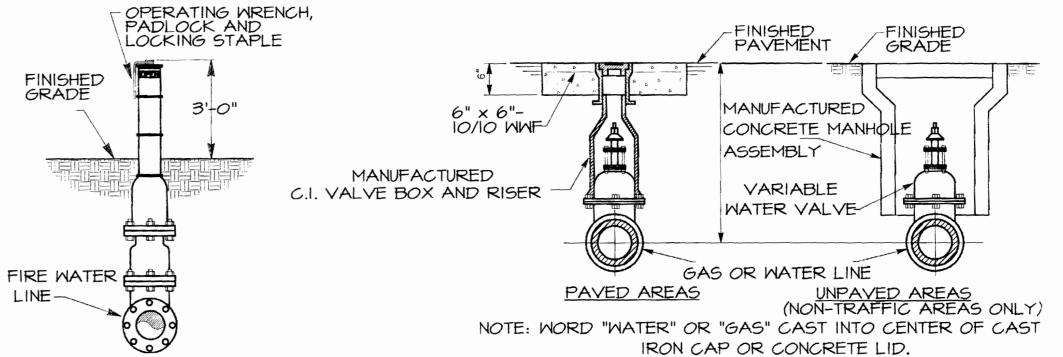
14) CONTRACTOR TO VERIFY THRUST BLOCKS ACCORDING TO EXISITNG SOILS CONDITIONS. PROVIDE CALCULATIONS PROVING LOADS TO MEET ADEQUATE SIZING. SUBMIT TO OWNERS AGENT.

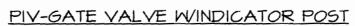
15) FIELD LOK GASKETS (UL) MAY BE SUBSTUTED FOR THRUST BLOCKS

16) USE 18" PRATT GROUND HOG UL W/GROUND LEVEL POSITION INDICATOR (TYP.)

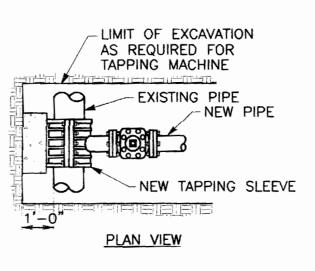
17) USE 18" X 18" X 20" DI FLANGED FITTING

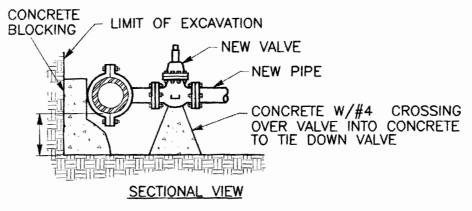
18) USE DI FLANGED DI FITTINGS



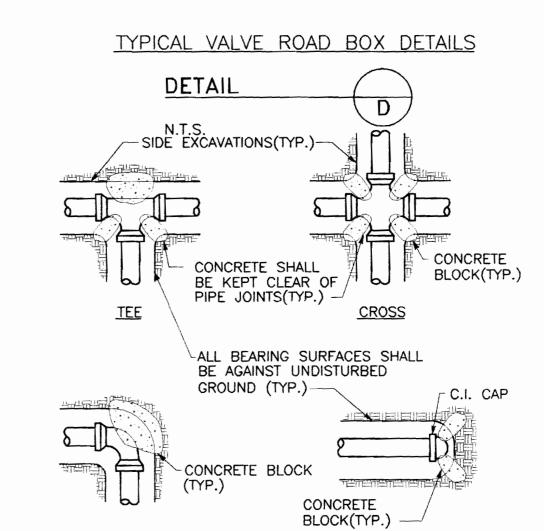


DETAIL C





UL TAPPING SLEEVE AND VALVE
INSTALLATION DETAIL



BEARING AREAS EACH DIRECTION							
		OF THRU	ST IN SQUARE FEET				
PIPE SIZE	TEES & DEADENDS	90° ELBOWS	45° ELBOW CROSSES IN DIRECTION OF FLOW	22-1/2* ELBOWS			
6"	4.0	5.5	3.0	2.0			
8"	7.0	9.5	5.0	3.0			
10"	9.5	13.5	7.0	4.0			
12"	13.5	19.0	10.0	5.0			
14"	18.0	23.5	14.0	7.0			
16"	23.0	33.0	18.0	9.0			

ELBOW

* VERIFY BEARING SURFACE AREA OF THRUST W/OWNERS AGENT BEFORE INSTALLATION

TYPICAL THRUST BLOCK INSTALLATION DETAIL

DEAD END

Fire & Pump Service Group Carson, Ca 90746 310-223-3990 LIC. NO. 786946

BRC DESIGN ASSOCIATES P.O. BOX 55105 STOCKTON, CA 45205

PUMP & STORAGE DELUGE SYSTEM ICTORVILLE AIRPORT VICTORVILLE, CA.

DATE: 12-11-02

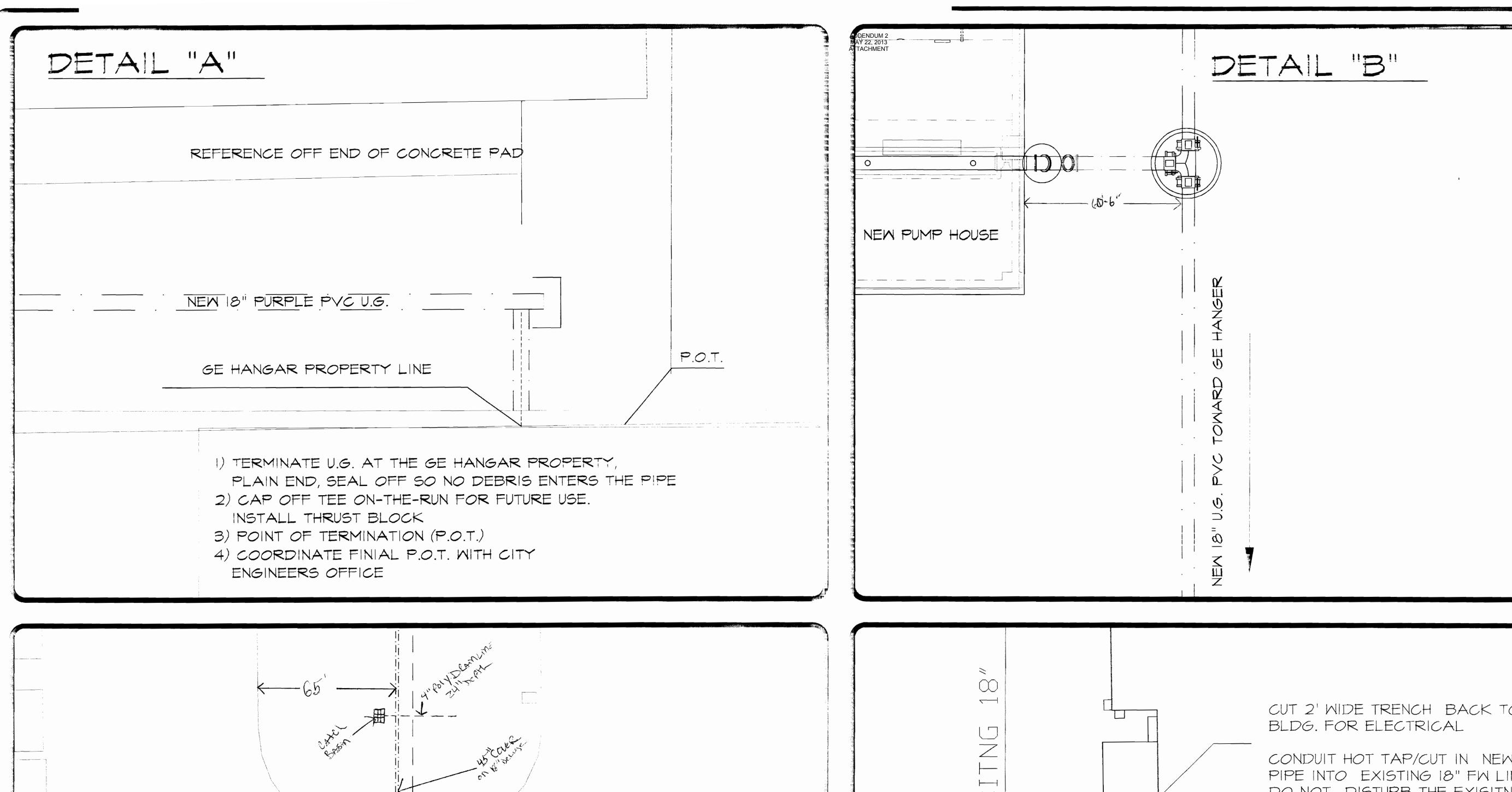
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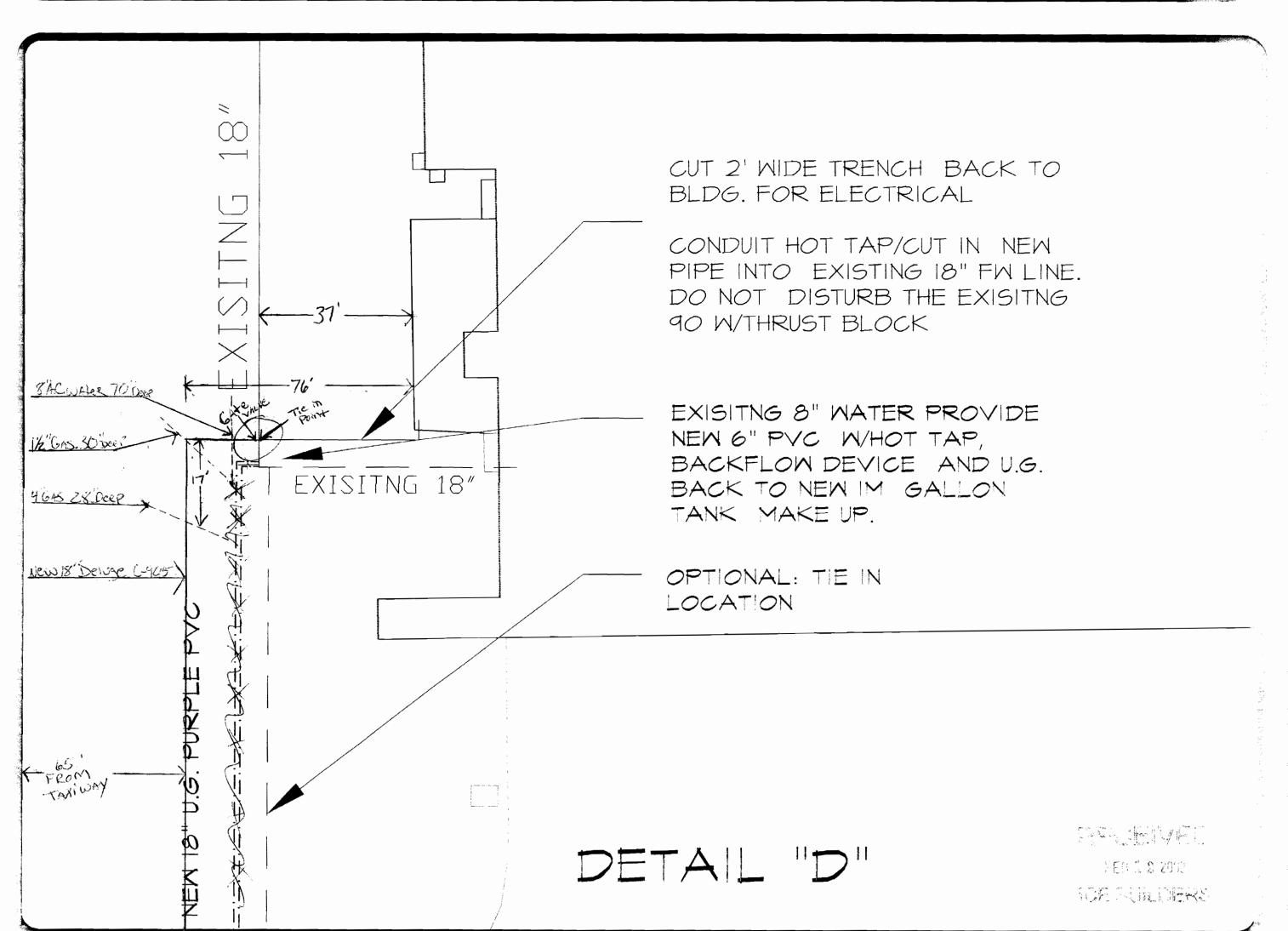
DRAWN: Water E. Rec.

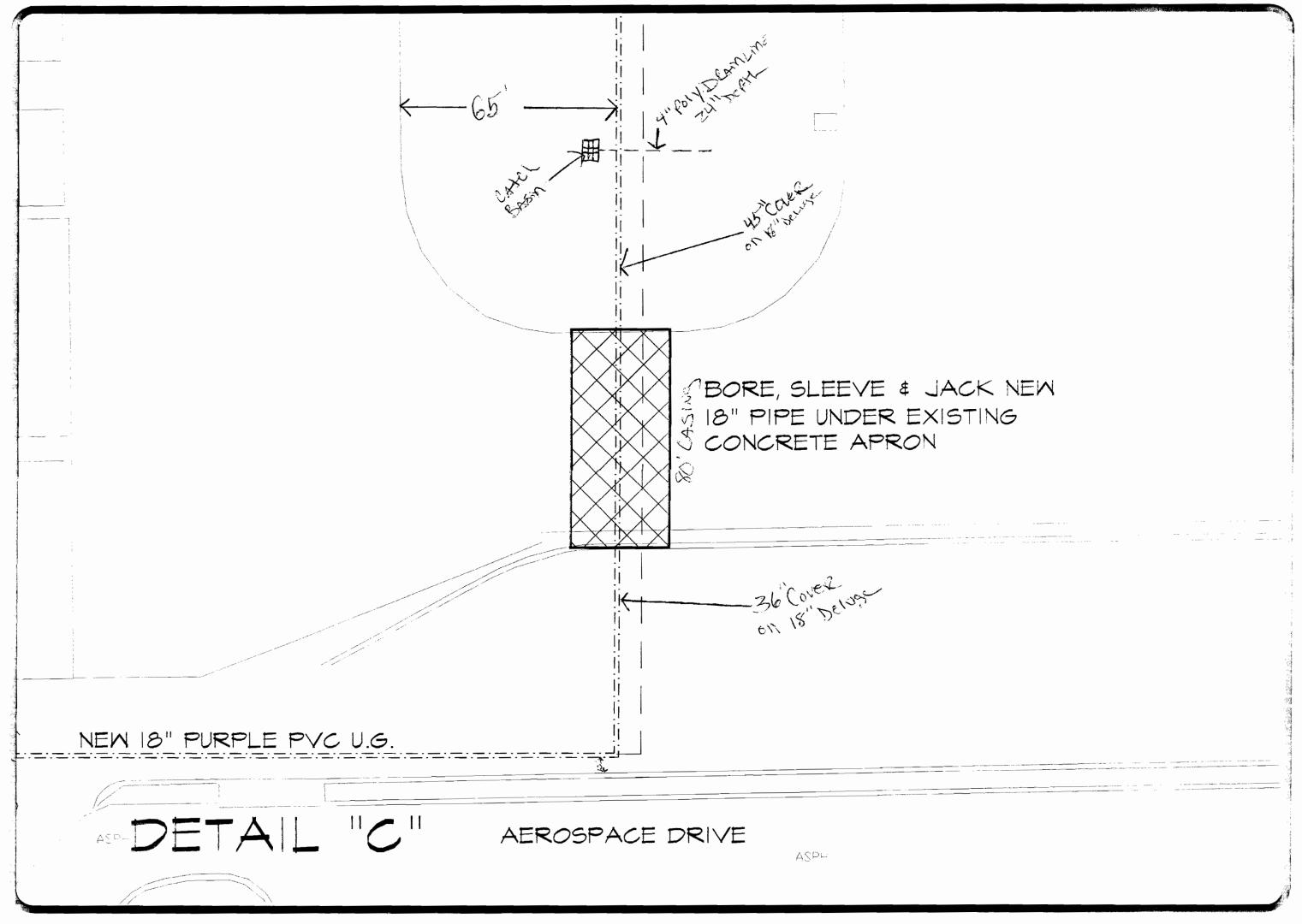
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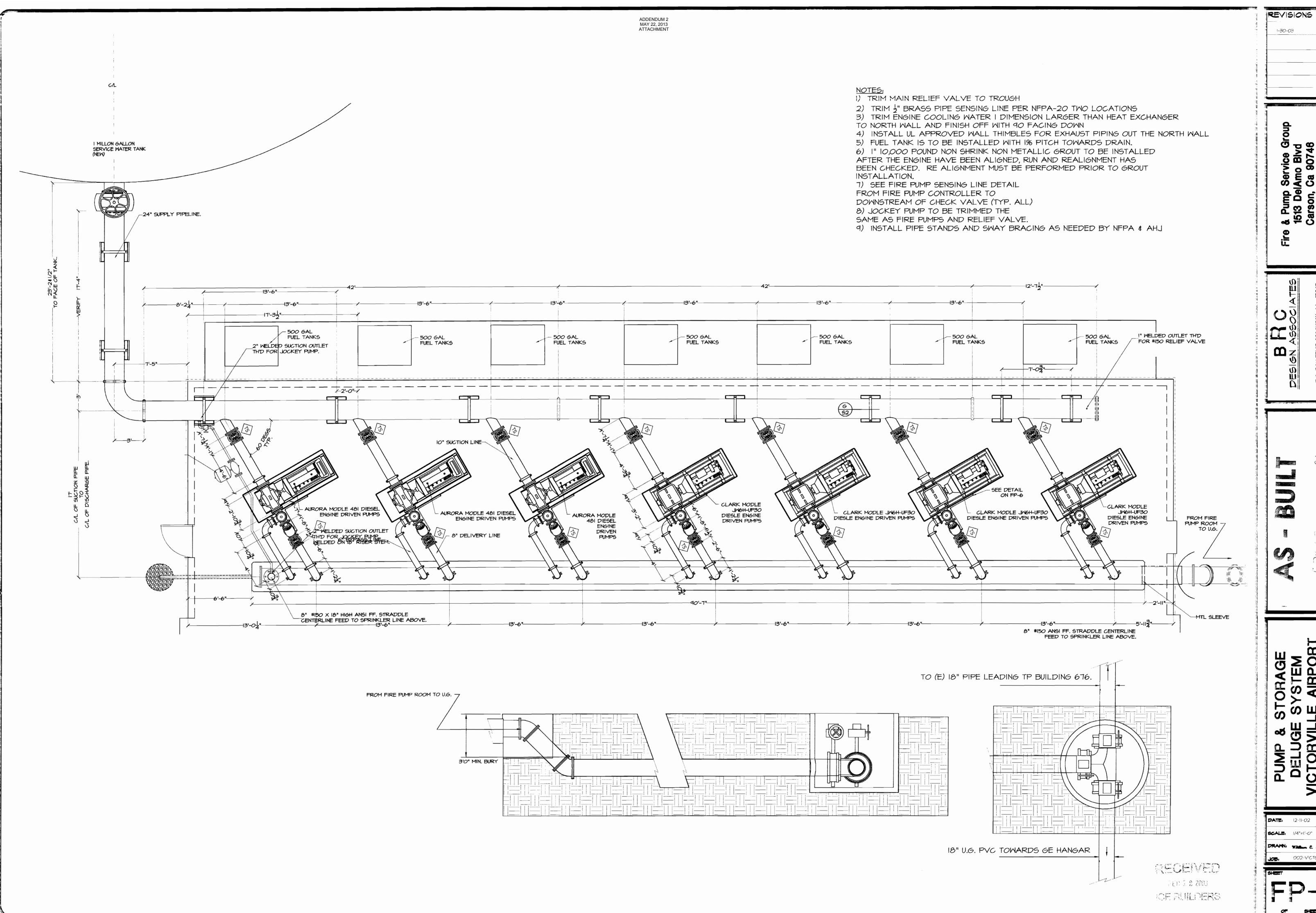
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O02-VICTORVILLE

ED-2

REVISIONS

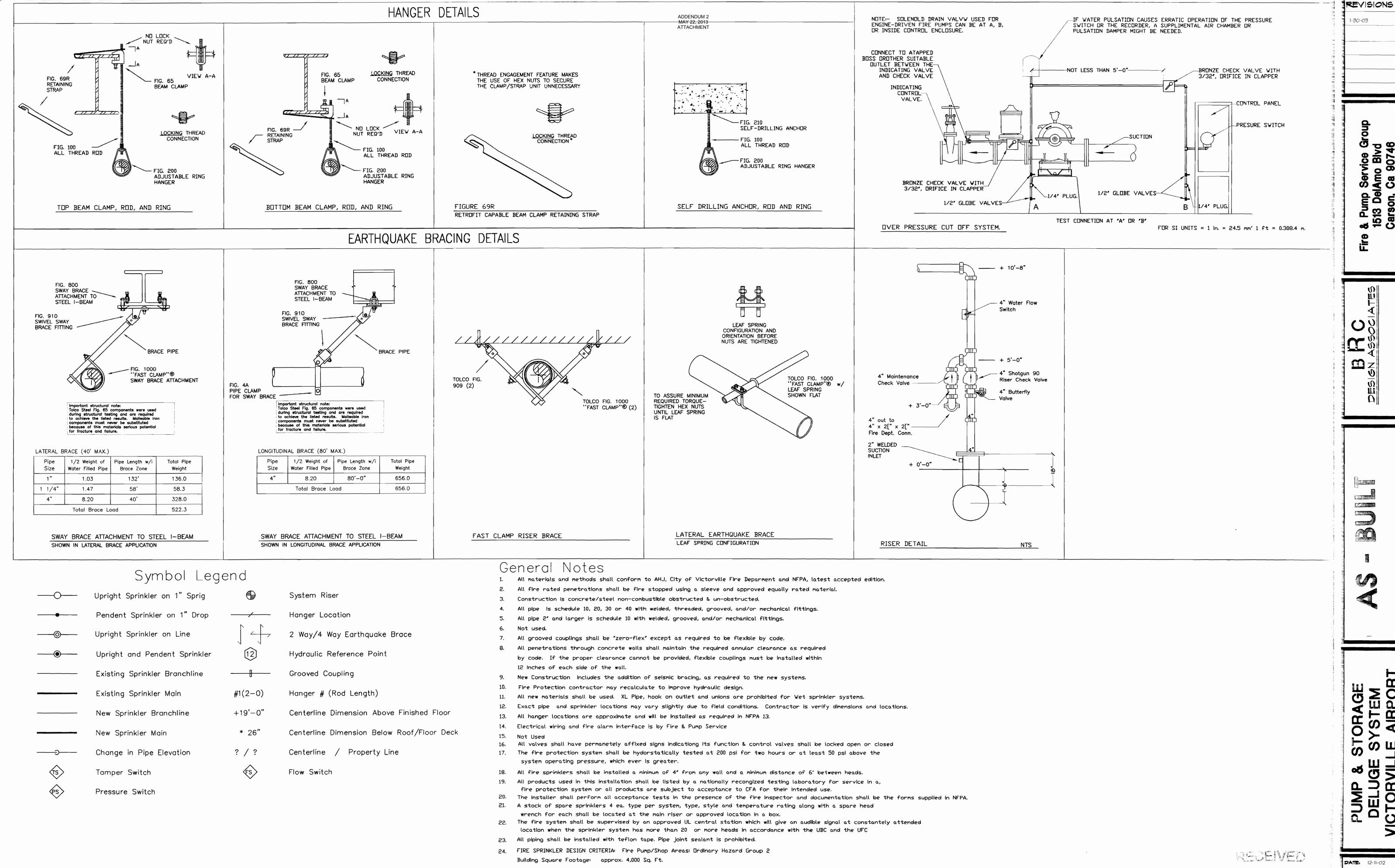
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PUMP & STORAGE
DELUGE SYSTEM
VICTORVILLE AIRPORT
VICTORVILLE, CA.

DATE: 12-11-02 SCALE: 1/4"=1'-0" 002-VICTORVILLE

06:31:32



Fire Sprinkler Desing Criteria

Celling construction typer: unobstructed

Maximum deflection distance: ___ (12)*

Hydraulic Design Density - Office Space .2 gpm @ 130 Sq.Ft.

Penetrations of rated corridors, walls or assemblies? __Yes___No

Office: Manufacturer: Viking Microfast Model ____1/2'____ Orifice Size ___5.6__ K-Factor __155_ Temp. __Std._ Type Response

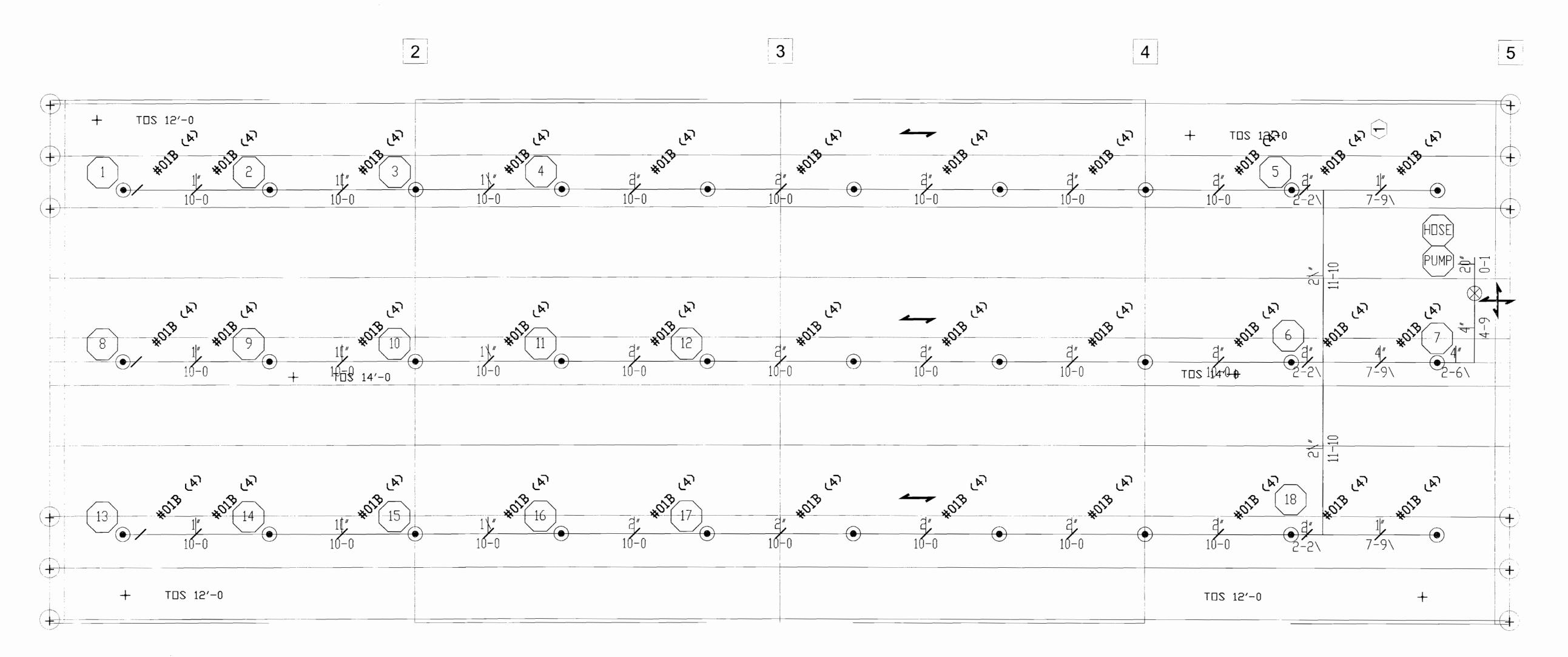
FB 1 2 2003 CEBUILDERS

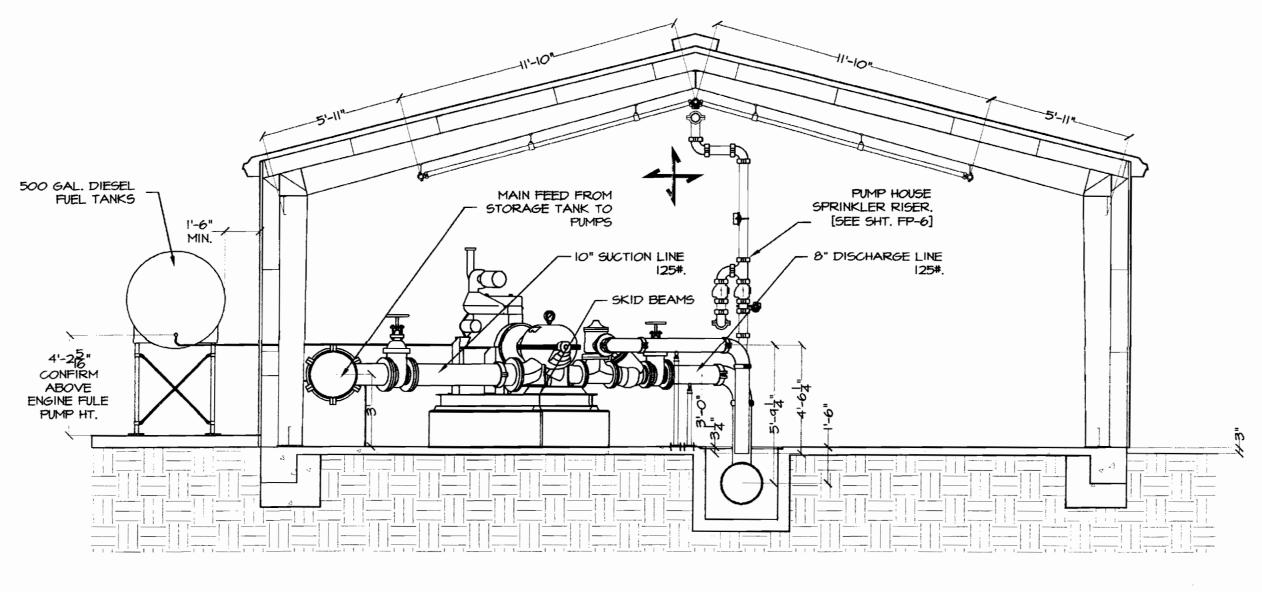
NOTES AND DETAILS

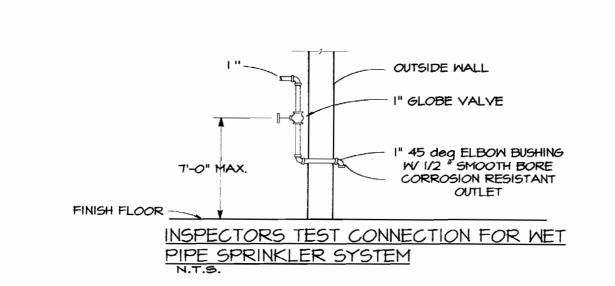
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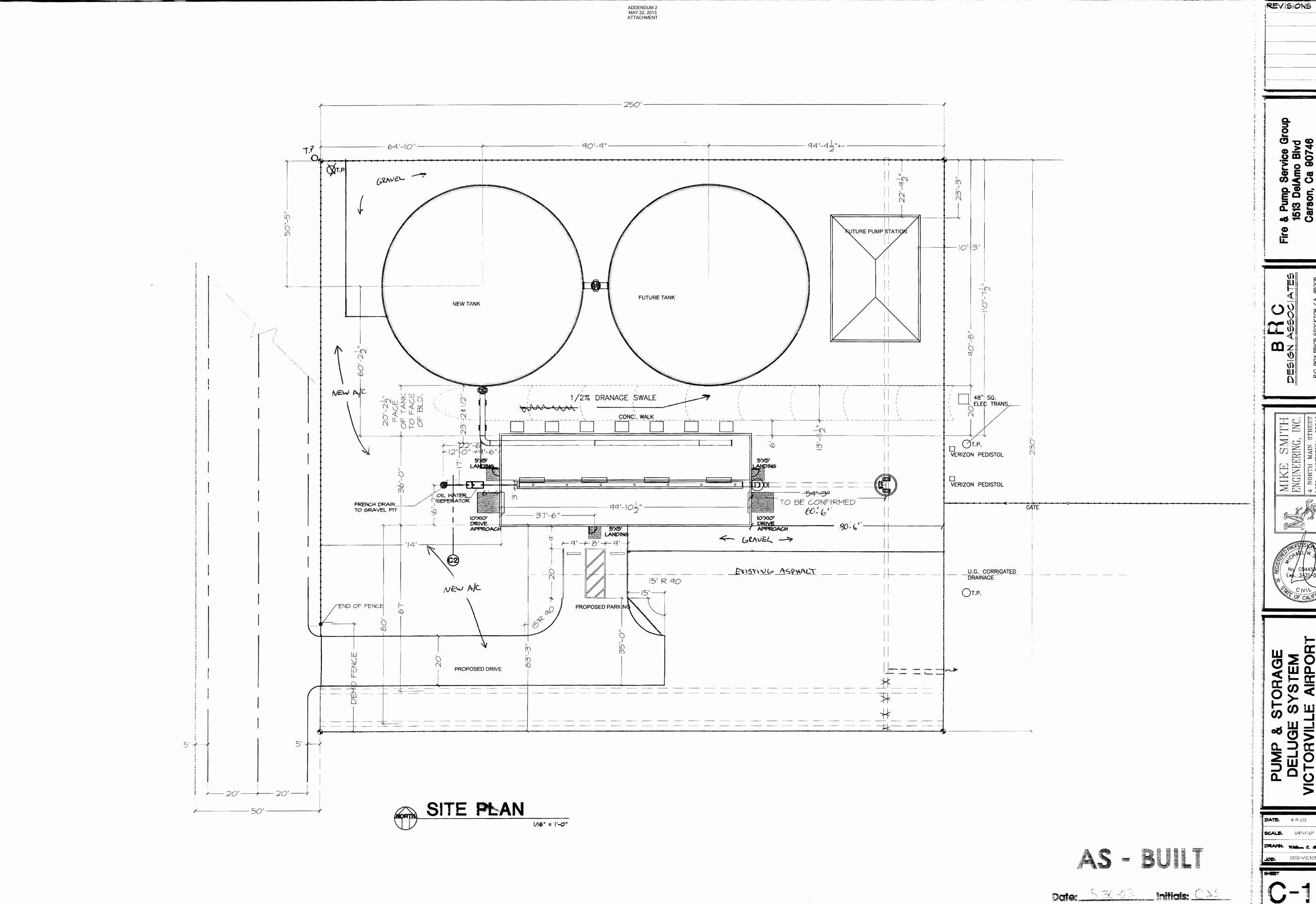


QTY. 30-1/2" BRASS UPRIGHT SSU 165 DEGREE U.L. SPRINKLER HEADS, VIKING MICROFAST RESPONSE SPRINKLERS I HEAD BOX W/ SPARES AND HAND WRENCH.

SPRINKLER LAY-OUT PLAN SCALE: 1/4" = 1'-0"

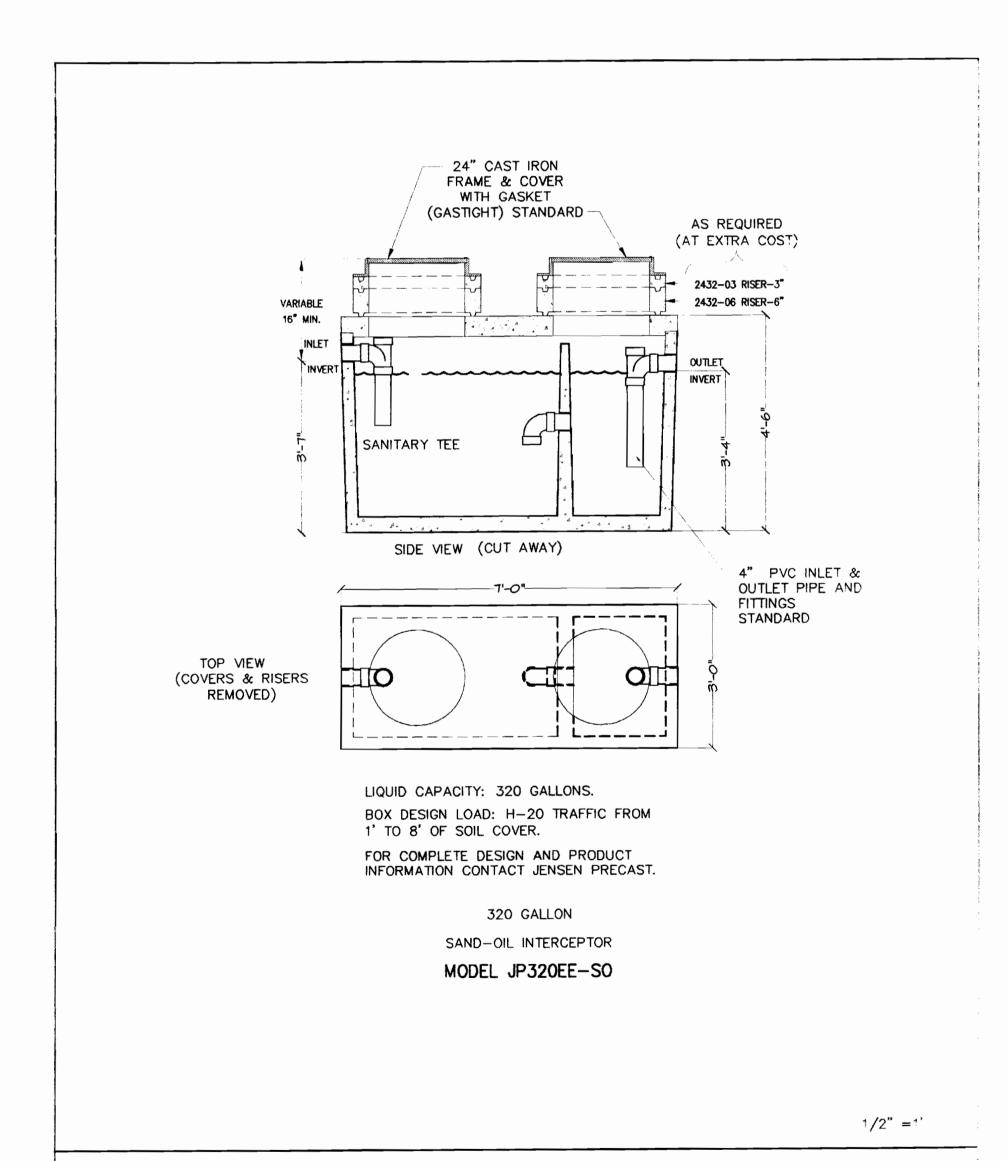
Carlotte VIII OF BUILDERS

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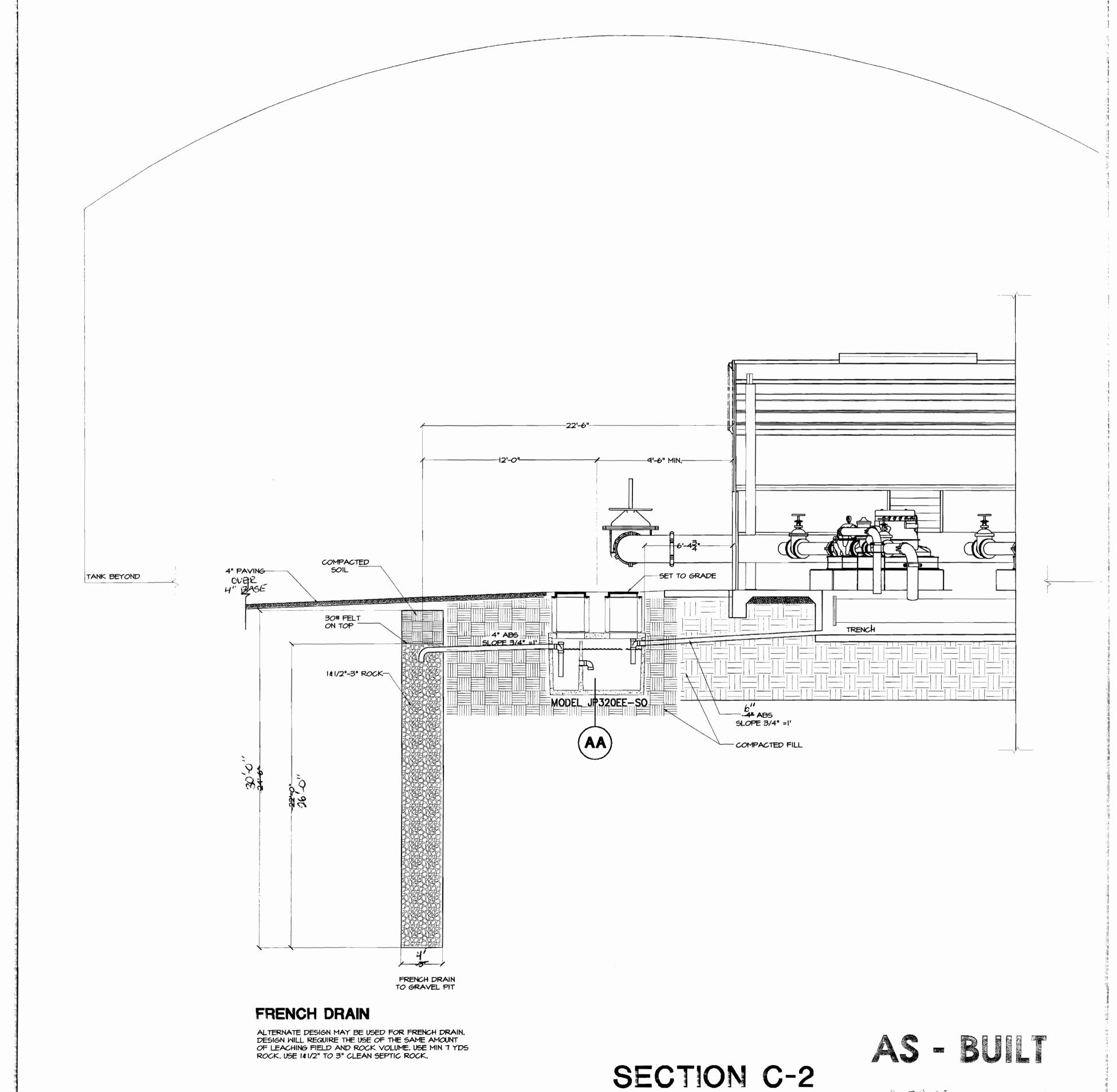


MIKE ENGINEE 4 NORTH LODI, CALI

2003 02:05:02



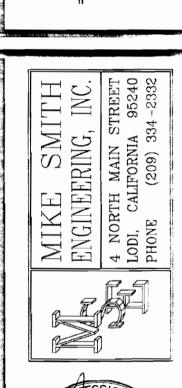
AA SAND-OIL INTERCEPTOR

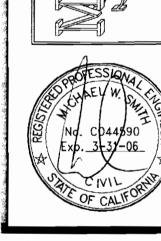


Fire & Pump Service Group 1513 DelAmo Blvd Carson, Ca 90746 10-223-3990 LIC. NO. 786946

REVISIONS

BRC
DESIGN ASSOCIATES
P.O. BOX 55105 STOCKTON, CA 45205





PUMP & STORAGE
DELUGE SYSTEM
//CTORVILLE AIRPORT

DATE: 12-11-02

SCALE: 1/4"=1'-0"

DRAYN: WARDON & Ross

JOB: 002-VICTORV'LLE

02:30:06

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C-2

GENERAL NOTES GENERAL A. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE 1997 EDITION OF THE UNIFORM BUILDING CODE AND STANDARDS AND ALL PUBLICATIONS NOTED B. DETAILS SHOWN ON THE STRUCTURAL DRAWINGS ARE TYPICAL AND SIMILAR. SPECIFIC NOTES AND DETAILS SHOWN ON THE DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. C. DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER SCALE ON THE PLANS, SECTIONS AND DETAILS. ANY DISCREPANCIES SHALL BE BROUGHT TO IMMEDIATE ATTENTION OF THE ENGINEER. D. ALL CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FLOOR OR ROOF FRAMING MEMBERS. LOADS FROM SUCH MATERIALS SHALL NOT EXCEED DESIGN LIVE LOADS. REVIEW THE SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL REMAIN RESPONSIBLE FOR ALL ERRORS OF DETAILING, FABRICATION AND THE CORRECT FITTING OF STRUCTURAL MEMBERS, INCLUDING COORDINATION ALL DETAIL CHANGES DESIRED SHALL BE SUBMITTED TO THE ENGINEER IN WRITING, SHOP DRAWINGS DO NOT CONSTITUTE CHANGES IN WRITING, ALONG WITH A LETTER, THE SHOP DRAWINGS SHALL SHOW ALL PROPOSED CHANGES. G. DESIGN LOADS ARE AS PER CHAPTER 16 OF THE UBC AND MAY BE MODIFIED AS PER THESE NOTES. 2. FOUNDATIONS A. DESIGN-IF THE DESIGN OF THE FOUNDATIONS IS BASED ON A SOILS REPORT, THAT FACT IS NOTED ON THE PLANS. IF NOT, ALL DESIGN IS BASED ON REQUIREMENTS OF CHAPTER IS OF THE UBC. COMPACTION REQUIREMENTS. I. SITE-MINIMUM SITE PREPARATION SHALL CONSIST OF SCARIFYING AND RECOMPACTING THE LOOSE SURFACE SOILS TO A MINIMUM COMPACTION OF 90% AS PER ASTM DI55T TEST PROCEDURE. ALL FILL MATERIAL REQUIRED SHALL BE PLACED IN 6" LAYERS AND COMPACTED AS NOTED. MINIMUM 2. PAVING-ALL AREAS TO BE PAVED SHALL BE TREATED AS SITE ABOVE TO 3. FOUNDATIONS-THE BOTTOM OF ALL FOUNDATIONS WHERE POSSIBLE SHALL BE PLACED ON NATIVE SOIL IN AN UNDISTURBED STATE OR ON APPROVED 4. SELECT BACKFILL-SELECT BACKFILL FOR STRUCTURES SHALL BE TREATED 3. CONCRETE A. GENERAL-ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI AND UBC CODES. B. CONCRETE-STRENGTH-UNLESS OTHERWISE NOTED ON THE PLANS CONCRETE SHALL OBTAIN A MIN. 20 DAY STRENGTH OF 2500 PSI. I. CEMENT-MIN. 5 SACKS PER YARD. AGGREGATES-MAXIMUM SIZE 34". 3. SLUMP-4" MAXIMUM 4. ADMIXTURES-ONLY AS APPROVED BY THE ENGINEER. 5. CURING-KEEP WET MIN. 7 DAYS, OR MEMBRANE CURING COMPOUND 6. VIBRATION-ALL CONCRETE SHALL BE VIBRATED INTO PLACE W/ A MECHANICAL VIBRATOR. 7. FORM REMOVAL-SIDE FORMS OF FOUNDATIONS AND SLABS MIN. 2 DAYS. 8. TESTING-IN ACCORDANCE WITH ACI-301-72, CHAPTER 19. 9. ALL EXPOSED CONCRETE SHALL HAVE SMOOTH FINISH C. REINFORCING MATERIALS 1. DEFORMED BARS-ASTM A615; #4 AND SMALLER, GRADE 40; #5 AND LARGER, GRADE 60. 2. ELECTRIC WELDED WIRE FABRIC (ENWF)-ASTM A 185. 5. STRUCTURAL STEEL & MISCELLANEOUS IRON A. CODES-ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING CODES: UBC-UNIFORM BUILDING CODE. 2. AISC-AMERICAN IRON AND STEEL CONSTRUCTION SPECIFICATIONS. 3. AMS-AMERICAN WELDING SOCIETY STANDARD CODE OI.I. 4. ASTM-AMERICAN SOCIETY OF TESTING MATERIALS. STRUCTURAL STEEL MEMBERS-ASTM A-36 OR AS SHOWN ON THE PLANS. . STRUCTURAL TUBING-ASTM A500 GRADE B. 3. STRUCTURAL PIPING-ASTM A53 GRADE B. 4. BOLTS, NUTS AND WASHERS-ASTM ABOT (UNLESS NOTED ON THE PLANS

5. HIGH STRENGTH BOLTS, NUTS AND WASHERS-ASTM A325 (INDICATED ON

9. OPEN WEB STEEL JOISTS-AS NOTED ON THE PLANS-PER STANDARD

10. METAL DECKING-ASTMA-446 GRADE D (FY=50 KSI)-GALV. TO ASTM

3. SHOP PRIME ALL STEEL EXCEPT GALVANIZED STEEL. DO NOT PRIME SURFACES TO BE WELDED OR WHICH WILL BE PLACED INTO CONCRETE.

1. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL STEEL

A525 G-60 COATING, FABRICATION AS PER STEEL DECK INSTITUTE

I. WELDING-WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS ONLY.

1. STRUCTURAL STEEL-SUBMIT MILL REPORTS AS PER AISC SPECIFICATIONS. 2. HIGH STRENGTH BOLTS, BOLTS AND WASHERS-PROVIDE WRITTEN MILL

3. ALL FIELD WELDING SHALL BE BY A CERTIFIED WELDER AND INSPECTED

4. HIGH STRENGTH BOLTS SHALL BE INSPECTED BY A QUALIFIED INSPECTO

PRE-ENGINEERED, PREFAB. METAL BLDG. SYSTEM

RIGID FRAMES - 20 PSF BASIC REDUCED FOR TRIBUTARY AREA AND

ROOF PURLING - ACTUAL WEIGHT OF THE MEMBERS. MANUFACTURER

SHALL PROVIDE THE SUPPORTING MEMBERS AS REQUIRED.

SHALL BE SUPPLIED THE LOCATION OF THE MAIN WATER SUPPLY LINES FOR THE SPRINKLER SYSTEM (IF APPLICABLE) AND THE MANUFACTURER

A. CODES-ALL WORK SHALL CONFORM TO THE CODES AS NOTED ABOVE FOR

"STRUCTURAL STEEL AND MISCELLANEOUS IRON" AND IN ADDITION SHALL CONFORM TO ALL SECTIONS OF THE CURRENT EDITION MANUAL OF THE METAL BUILDING MANUFACTURERS ASSOCIATION, "METAL BUILDING SYSTEMS MANUAL"

ROOF AND WALL SHEETING - ACTUAL WEIGHT OF MATERIAL

C. THE OWNER SHALL MAKE ALL COLOR SELECTIONS FOR THE ROOF SHEETING

. ALL METAL BUILDING MANUFACTURER CONTRACTORS SHALL AT THE TIME

OF SUBMITTING THEIR BID, SUPPLY ENOUGH DATA OF THE BUILDING PROPOSED BY THE CONTRACTOR, SO THAT THE OWNER MAY VERIFY THAT

1. ROOF SHEETING-PAINTED GALVANIZED AS PER ASTM A446 FY = 80 KSI AND SHALL BE PRIMED TO RECEIVE BLOWN-ON INSULATION IF APPLICABLE. 2. WALL SHEETING-PAINTED GALVANIZED AS PER ASTM A446 FY = 80KSI AND

SHALL BE PRIMED TO RECEIVE BLOWN-ON INSULATION IF APPLICABLE.

4. ALL OTHER FRAMES, GIRTS, PURLINS, ETC. AS PER ASTM A446 GRADE D

D. WALL SHEETS AT THE TOP OF CMU WALL OR TOP OF FOUNDATION.

3. TOP AND BOTTOM OF PRE-FORMED NEOPRENE CLOSURE AT ROOF

1. USE PRE-FORMED APPROVED NEOPRENE SHEET CLOSURES AT THE

1. USE 14" THICK X I" WIDE PRE-FORMED APPROVED MASTIC AT THE

ALL REQUIREMENTS OF HIS NEEDS WILL BE MET BY THE CONTRACTOR'S PROPOSAL.

RIGID FRAMES - ACTUAL WEIGHT OF THE FRAME.

WALL SHEETING, ROOF VENTS AND TRIM FOR THE BUILDING.

3. TRIM-PAINTED GALVANIZED AS PER ASTM A446 GRADE D.

6. WELDING MATERIALS-E-70 ELECTRODES AS PER AWS-01-1.

SHOP FABRICATE TO THE GREATEST POSSIBLE EXTENT.

2. COORDINATE SHOP DRAWINGS WITH ALL OTHER TRADE

BY AN APPROVED WELDING INSPECTOR.

ROOF SHEETING - 20 PSF BASIC

ROOF PURLINS - 20 PSF BASIC

2. WIND LOAD-PER APPLICABLE CODES

COLLATERAL DEAD LOAD -SPRINKLER SYSTEM -

PAINT PRIMER-FED. SPEC. TT-D31, RED OXIDE. 8. GALVANIZING-ASTM A525 MIN. 207 HOT DIPPED

SPECIFICATIONS OF THE STEEL JOIST INSTITUTE.

DRAWINGS AS HSMB)

C. FABRICATION

D. SHOP DRAWINGS

E. TESTING AND INSPECTION

B. BUILDING LOADING CONDITIONS.

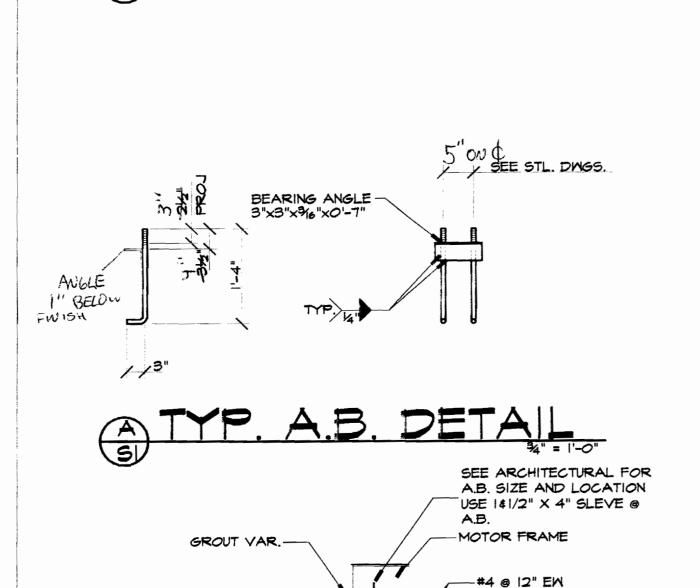
I. LIVE LOAD

6. BUILDING CLOSURES

FOLLOWING LOCATIONS: A. ROOF SHEETS AT THE RIDGE B. ROOF SHEETS AT THE EAVE. C. WALL SHEETS AT THE EAVE.

FOLLOWING LOCATIONS: A. ROOF SHEETS

. SIDE LAPS, INCLUDING SKYLITES 2. END LAPS, INCLUDING SKYLITES



5/8" VER TIES

@ |2" O.C. PER.

18'-0"

TRENCH DETAIL

VERIFY TRENCH/GRATE DETAIL W/ GEN. CONTRACTOR

6" CONC. SLAB

CENTERED IN WALL

m/ #4 @ 18" EW

6" CONC. SLAB

w/ #4 @ 18" EW

CENTERED IN SLAB

HEAVY DUTY

STEEL GRATE

COLD JOINT

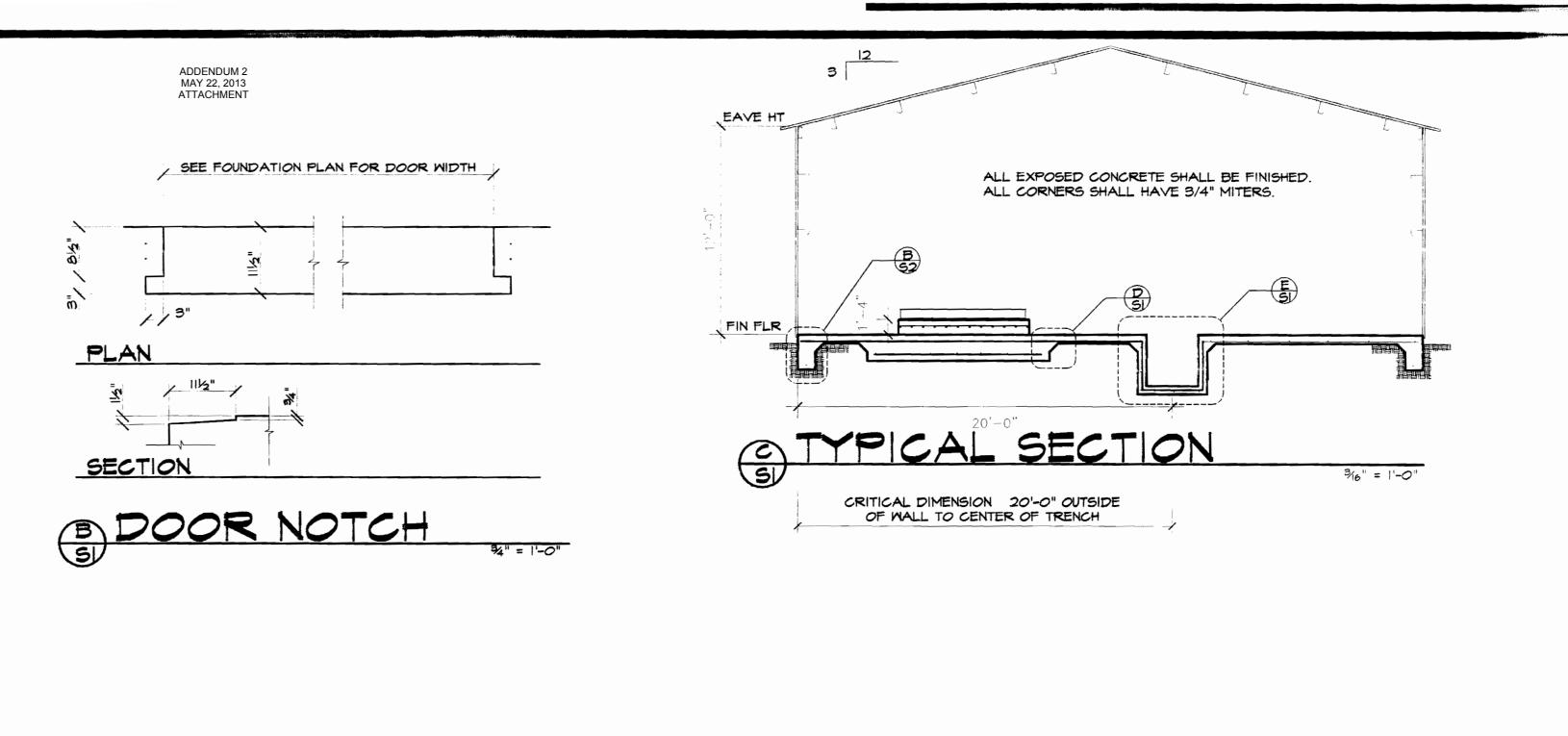
DUMB BELL

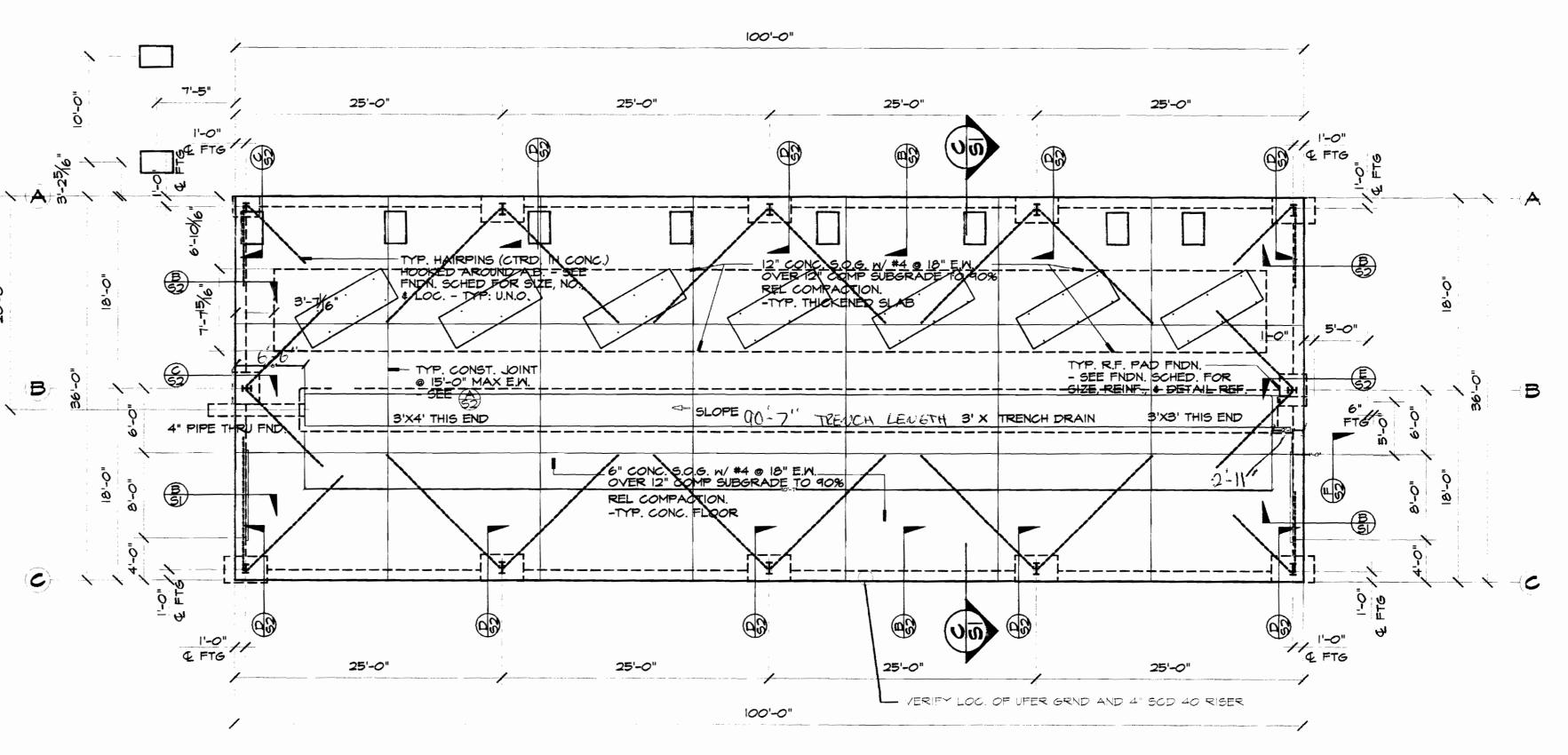
WATER STOP

				TIA			
LOCATION		SIZE		REINF.	N SCHE ANCHOR BOLTS ASTM 307		DETAIL REF.
	HTCIN	LENGTH	DEPTH				
AI,CI	2'-6"	2'-0"	1'-6"	3-#4 L.W.	34" Φ x 1'-4" A.B. w/ 2½" PROJ. (2) REQ'D	#4x15'-0" 45° HAIRPINS 45° @ A.B. 7.5' 7.5'	52
BI,B5	2'-6"	3'-0"	1'-6"	3-#4 L.M. 4-#4 S.M.	%" Φ x 1'-4" A.B. w/ 2½" PROJ. (2) REQ'D	#4x20'-0" 90° HAIRPINS A.B. 10' 10'	C E 52 52
A2-A4 <a3 C2-C4-03</a3 	2'-6"	4'-0"	1'-6"	3-#4 L.W. 5-#4 S.W.	34" Φ × 1'-4" A.B. w/ 2½" PROJ. (4) REQD	#5x25'-0" q0° HAIRPINS @ A.B. 2.5' 12.5'	D 52
A5,C5	2'-6"	4'-0"	1'-6"	3-#4 L.M. 5-#4 S.M.	34" Φ x 1'-4" A.B. w/ 2½" PROJ. (4) REQ'D	#5, 25'-0" 45° HA!'RPINS @ A.B. 2.5' 12.5'	D 52

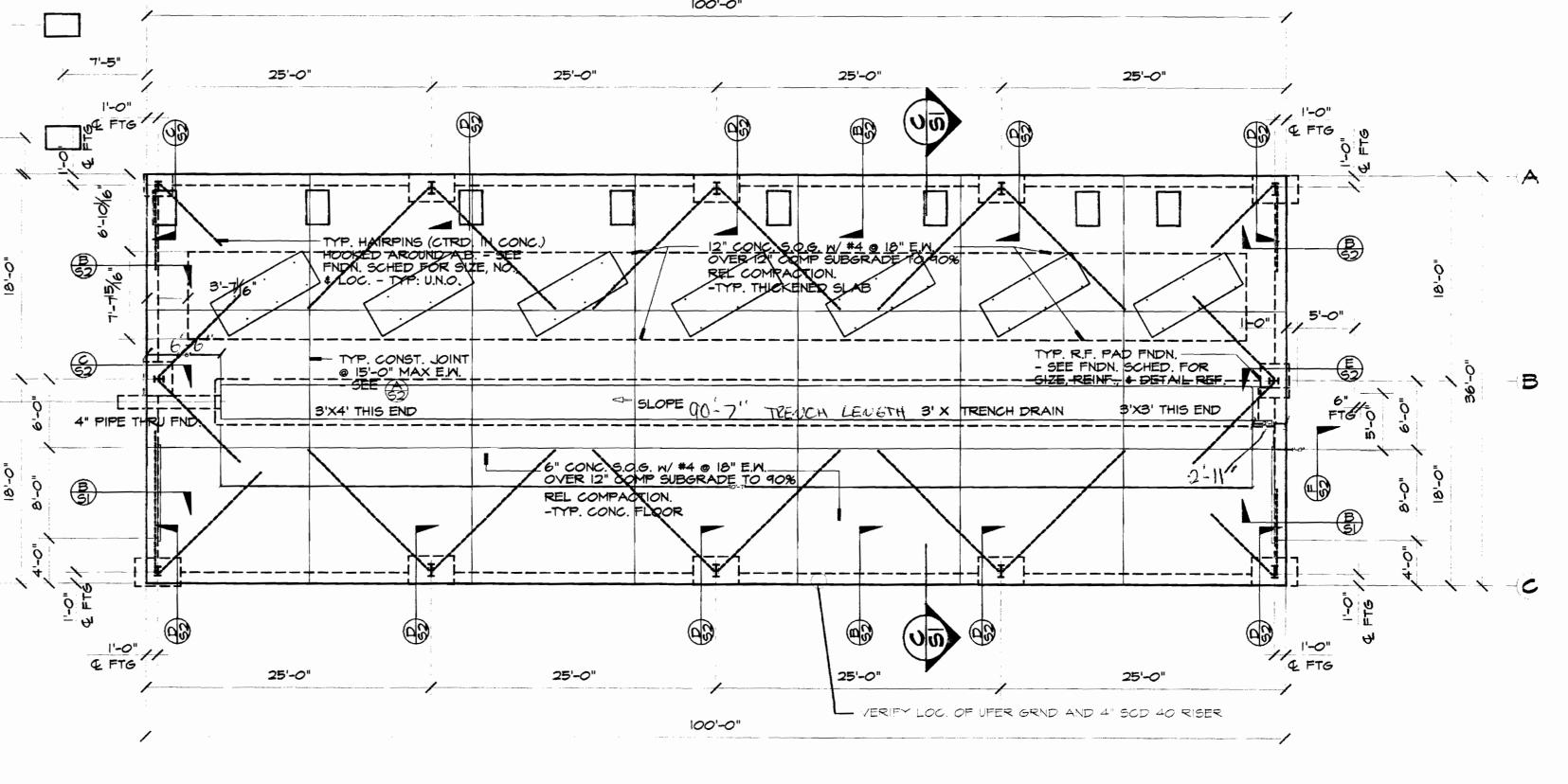
PENGINE/PUMP FND.

@ BOT.





FOUNDATION PLAN



VERIFY ALL BOLT LOCATIONS WITH METAL BUILDING PLANS

AS - BUILT

SYSTEM E AIRPOR LLE, CA. S M PUMP DELU ICTOR\ VICTO

No. CO44590

Exp. 3-31-06

REVISIONS

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Pump 513 Del arson, 3990

& Pul 1513 Carso

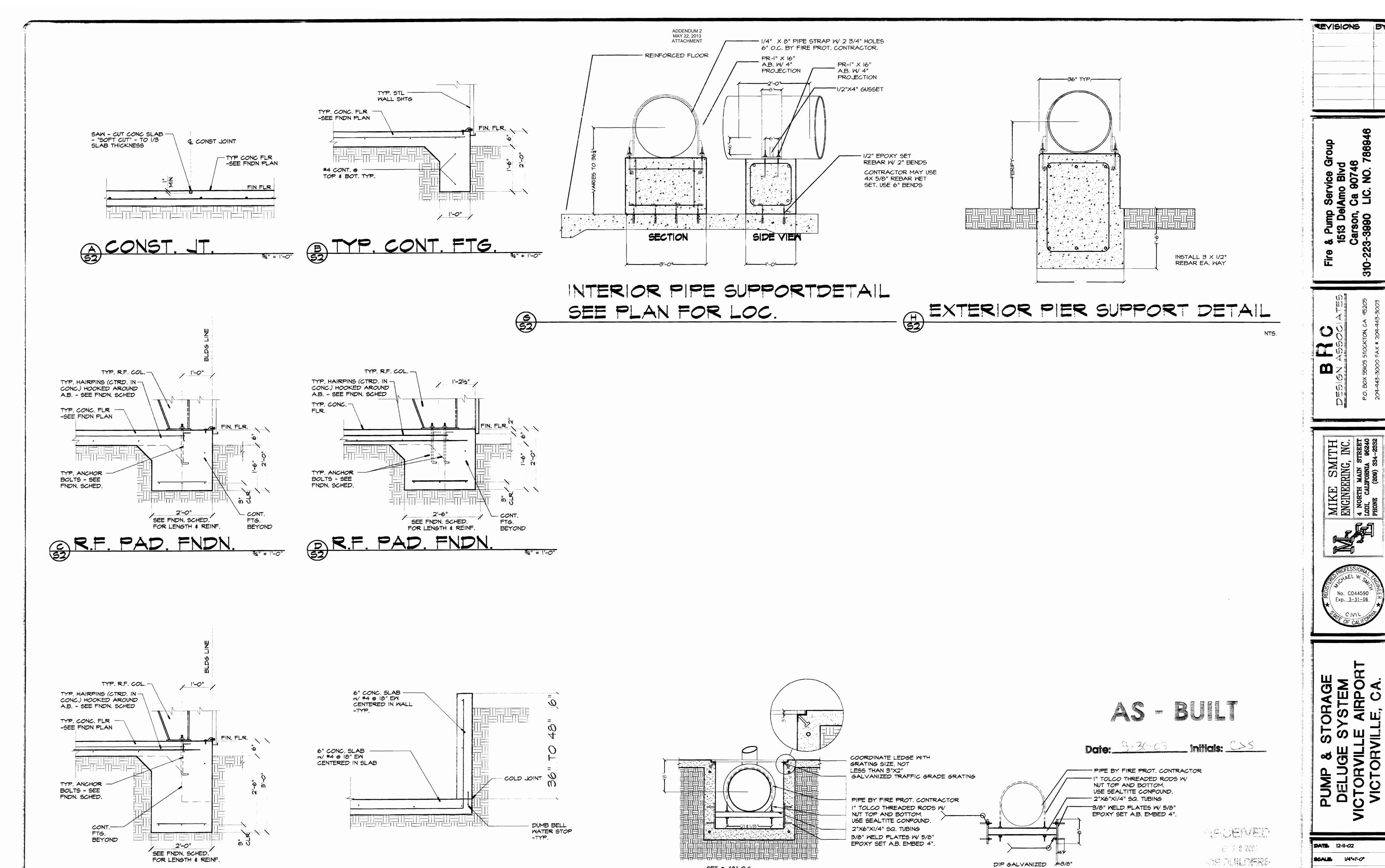
DATE: 12-11-02 SCALE: 1/4"=1"-0"

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A PERMILDERS

002-VICTORVILLE



SET @ 48" O.C.

34" = 1'-O"

PIPE SUPPORT DETAIL

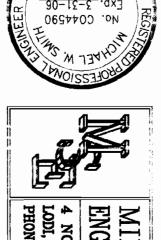
002-VICTORVILLE **S-2**

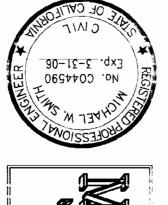
PE SUPPORT DETAIL @ 48

SNOISINE

MIKE SMITH
ENGINEERING, INC.

4 NORTH MAIN STREET
LODI, CALIFORNIA 95240
PHONE (209) 394-2332





PUMP & ST DELUGE S' ICTORVILLE VICTORVILI

OOS-NCTORVILLE

673. HOUR

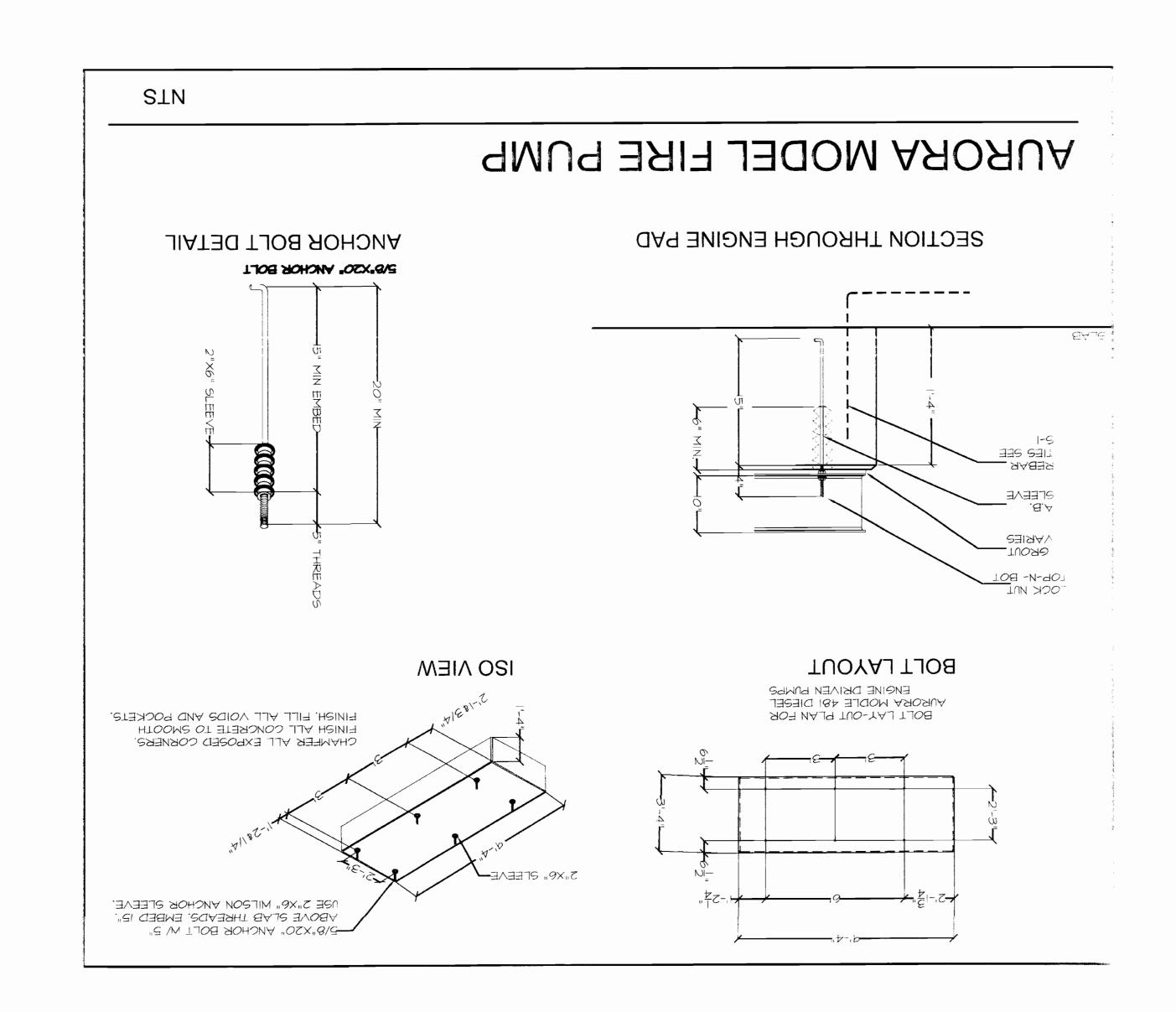
ITINE - SV

USE 2"X6" MILSON ANCHOR SLEEVE.

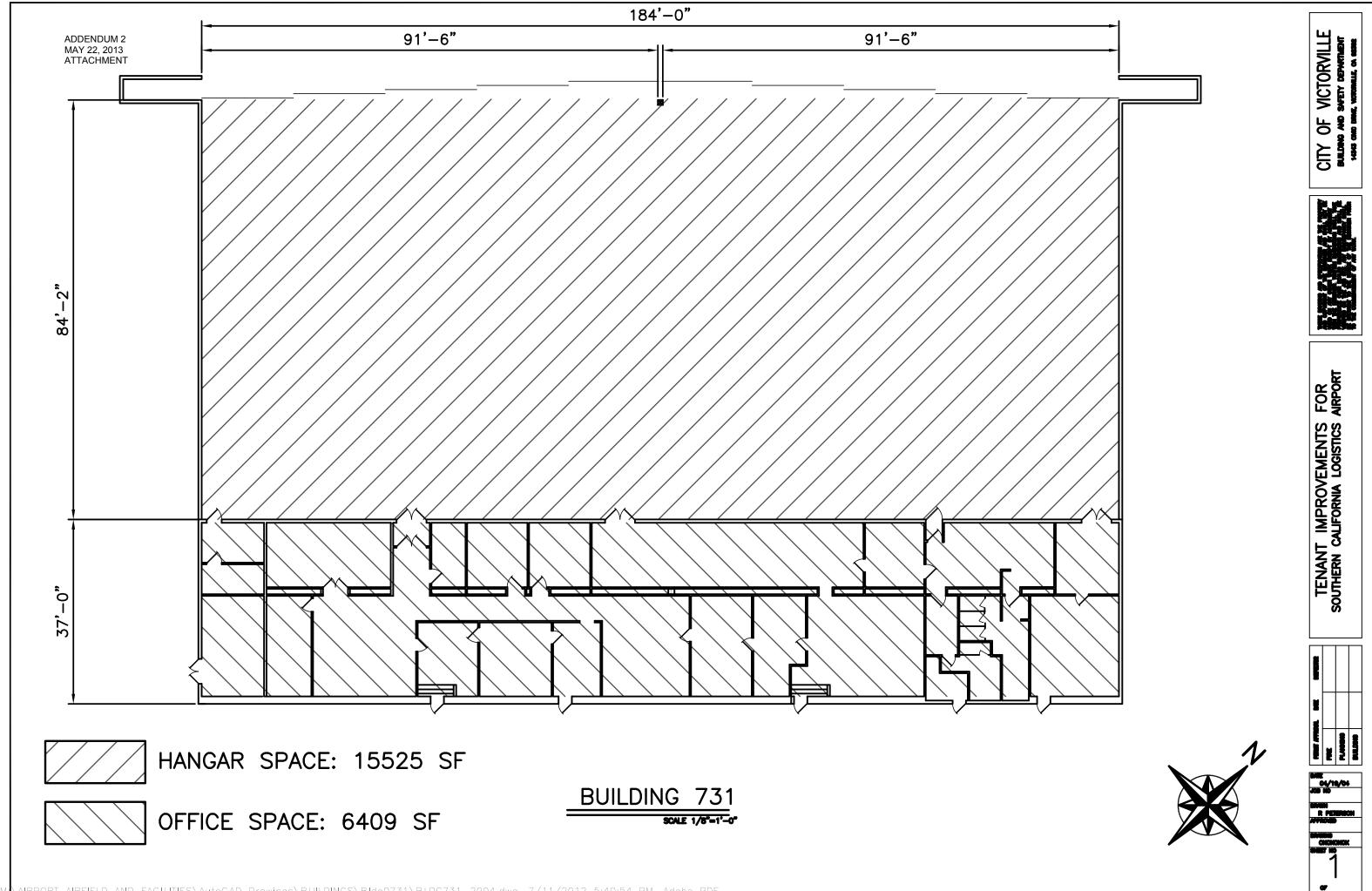
ABOVE SLAB THREADS, EMBED 15".

ANGRONE SLAB THREADS, EMBED 15".

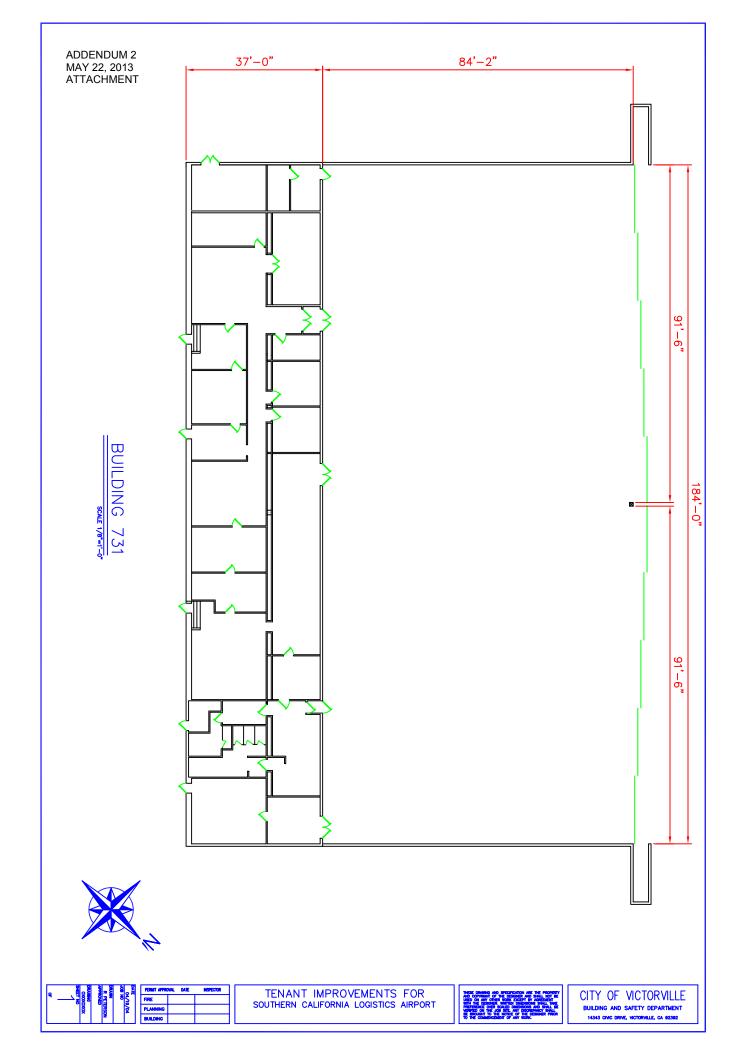
STN CLARK MODEL FIRE PUMP ANCHOR BOLT DETAIL SECTION THROUGH ENGINE PAD 3/4"X20" ANCHOR BOLT GROUT___ TOP-N-BOT LOCK NUT ISO NIEM **BOLT LAYOUT** DIESLE ENGINE DRIVEN FOR BOLT LAY-OUT PLAN FOR CHAMFER ALL EXPOSED CORNERS. FILL ALL VOIDS AND POCKETS.



ADDENDUM 2 MAY 22, 2013 ATTACHMENT



AIRPORT AIRFIELD AND FACILITIES\AutoCAD Drawings\BUILDINGS\BIdg0731\BLDG731-2004.dwg, 7/11/2012 5:40:54 PM, Adobe PDF



SOUTHERN CALIFORNIA LOGISITICS AIRPORT AUTHORITY SECTION D – FORMS BID PROPOSAL

The undersigned declares that the locations of the proposed work, the plans, specifications, and contract documents have been carefully examined; and being familiar with all of the conditions surrounding the work, including the availability of materials and labor, the undersigned hereby proposes to furnish all labor, materials, tools, equipment, and incidentals, to complete all the work. All applicable taxes and discounts should be included. All of the aforementioned shall be done in accordance with said plans, specifications, and contract documents for the price set forth in the following schedule and State Prevailing Wage.

Note: All prices to include all appropriate taxes and any/all discounts.

THIS PROJECT IS SUBJECT TO STATE PREVAILING WAGE RATE

ITEM 1 - BID PROPOSAL – FURNISH, DELIVER & INSTALL

1A. Pump Houses 1					
Materials	\$				
Labor (prevailing wages required)	\$				
Other Charges					
Subtotal					
Tax (materials only)					
Total Bid					
Total Bid in words:					
Estimated completion time:					
1B. Pump House 2	<u> </u>				
Materials	\$				
Labor (prevailing wages required)	\$				
Other Charges					
Subtotal					
Tax (materials only)					
Total Bid					
Total Bid in words:					

Estimated completion time:				
1C. Hangar 731				
Materials	\$			
Labor (prevailing wages required)	\$			
Other Charges				
Subtotal				
Tax (materials only)				
Total Bid				
Total Bid in words:				
Estimated completion time:				
1D. Hangar 734				
Materials	\$			
Labor (prevailing wages required)	\$			
Other Charges				
Subtotal				
Tax (materials only)				
Total Bid				
Total Bid in words:				
Estimated completion time:				
GRAND TOTAL IN WORDS FOR TEMS 1 AE				
ITEM 1 - OPTIONAL PRICING - FURNISH, DELIVER & INSTALL:				
BUILDING 734 – TRUNK LINES:				
Additional cost for running new accessible wires to trunk lines:				

ITEM 2 - BID PROPOSAL – MONTHLY MONITORING & MAINTENANCE

2A Pump House 1	
	\$
MONTHLY MONITORING COST	Φ.
MONTHLY MAINTENANCE COST	\$
TOTAL ANNUAL PRICE FOR MONTORING AND MAINTEANCE	\$
Total Annual Monthly & Maintenance Price in words:	
2B Pump House 2	
MONTHLY MONITORING COST	\$
MONTHLY MAINTENANCE COST	\$
TOTAL ANNUAL PRICE FOR MONTORING AND MAINTEANCE	\$
Total Annual Monthly & Maintenance Price in words:	
2C Hangar 731	
MONTHLY MONITORING COST	\$
MONTHLY MAINTENANCE COST	\$
TOTAL ANNUAL PRICE FOR MONTORING AND MAINTEANCE	\$
Total Annual Monthly & Maintenance Price in words:	
2D Hangar 734	
MONTHLY MONITORING COST	\$
MONTHLY MAINTENANCE COST	\$
TOTAL ANNUAL PRICE FOR MONTORING AND MAINTEANCE	\$
Total Annual Monthly & Maintenance Price in words:	
GRAND TOTAL IN WORDS FOR ITEMS 2 ABOVE:	

Provide a separate price for the following items which will be used only if needed and shall not be part of your grand total (applicable to all buildings)

ITEM 3 - TIME & MATERIAL – Provide a price per labor category (in accordance with State prevailing wage)

prevaming wage)			
DESCRIPTION	HOURLY RATE – REGULAR TIME	HOURLY RATE OVERTIME	
Maintenance, Troubleshooting and			
Repairs			
DESCRIPTION	COST		
Travel/Mobilization			
DESCRIPTION	PERCENTAGE		
Parts Mark Up Percentage			
DESCRIPTION	HOURLY RATE		
After Hour, Holiday and Weekend Hourly Rate			

Emergency Response Time:		_		
Warranty Period in months:				
Payment Terms:				
FOB: Victorville, CA (Shipping	Prepaid)			
Bidder:				
Address:				
MAILING ADDRESS	CITY	STATE	ZIP CODE	
Phone:Fax:_	E-mail:			
EMAIL:				_
SIGNATURE			DATE	

BELOW PERTAINS TO ALL ITEMS (1-3)

NAME PRINTED

TITLE

WEDNESDAY, MAY 22, 2013 9:00 a.m.

PROJECT NAME: FURNISH, DELIVER, INSTALL, MONITOR, MAINTAIN AND REPAIR FIRE ALARM SYSTEMS
AT SCLA PUMP HOUSE 1 & 2 AND HANGARS 731 & 734

PROJECT #: ES13-072

COMPANY NAME & REPRESENTATIVE	ADDRESS	PHONE #	FAX#	E-MAIL
City of Victorville – Elizabeth Salcido Purchasing Technician/Contract Administrator.	14343 Civic Dr. Victorville, CA 92392	(760) 243-6371	(760) 269-0045	esalcido@ci.victorville.ca.us
SCLAA – Heather Kurowski Management Technician	14343 Civic Dr. Victorville, CA 92392	(760)-243-1905	(760) 243-1929	hkurowski@ci.victorville.ca.us
SCLAA – Richard Falzone Project Manager	18374 Phantom Drive Victorville, CA 92394	(760) 243-1945	(760) 243-1929	rfalzone@ci.victorville.ca.us
City of Victorville – Celeste Calderon Management Specialist	14343 Civic Dr. Victorville, CA 92392	(760) 955-5082	(760) 269-0045	cmcalderon@ci.victorville.ca.us
Simplex Grinnel – Todd Sims	10282 6 th Street Rancho Cucamonga, CA 91730	(909) 204-0586	909-989-6718	tsims@simplexgrinnell.com
Simplex Grinnell – Rhonda Reinhart	10282 6 th Street Rancho Cucamonga, CA 91730	(909) 204-0586	909-989-6718	rreinhart@simplexgrinnell.com
Dan Cox, Enko Systems	1001 So Arrowhead Ave SB CA 92408-2018	909-885-7771	909-885-7773	danc@enkosystems.com
Ernie Knustgraichen – Pyro Comm. Systems	15531 Container Ln Huntington Beach, CA 92649	714-932-8810	714-902-8001	eknust@pyrocomm.com
Ron Cummings – Pyro Comm Systems	15531 Container Ln Huntington Beach, CA 92649	714-932-8810	714-902-8001	
Oscar Lopez – Post Alarm Systems	47 E. St. Joseph St. Arcadia, CA 91006	626-523-2965	626-446-5811	olopez@postalarm.com
Jay Lovato – AV Communications	21845 Hwy 18 AV Ca 92307	760-247-2668	760-247-0087	jlovato@applevalleycommunicati ons.com