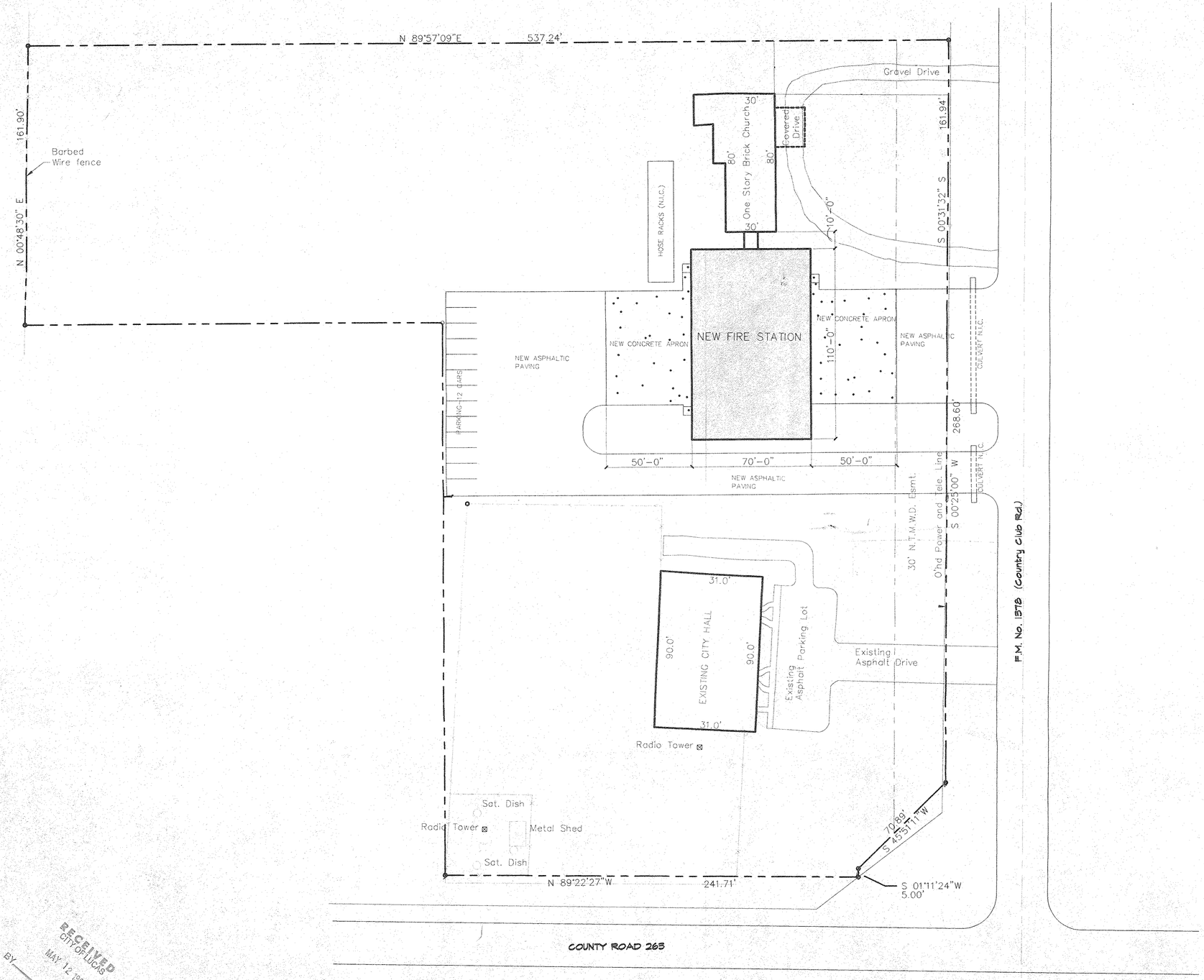

NORTH

SITE PLAN

SCALE: 1" = 30'-0"

SHEET INDEX

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P-1 FLOOR PLAN PLUMBING

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Speed Fab-Crete CORPORATION INTERNATIONAL

DRAWN BY: E.A.G.	SCALE: 1" = 30'-0"
DATE: 5-12-98	DWG NO:

SITE PLAN

NEW FIRE STATION
for
CITY OF LUCAS
LUCAS TEXAS

SHEET NO.

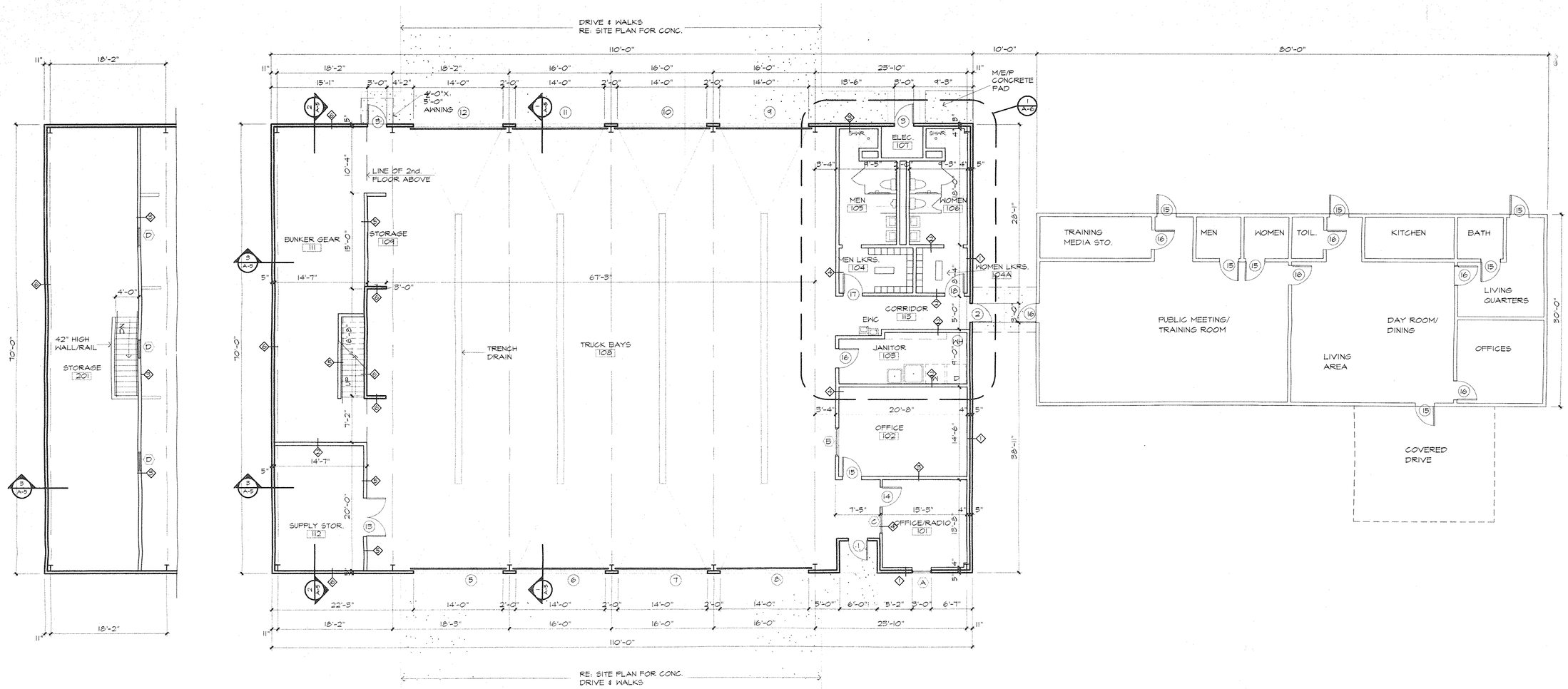
A-1

JOB NO. 01298

RECEIVED
CITY OF LUCAS
MAY 12 1998
BY

RECEIVED
CITY OF LUCAS
MAY 12 1998
BY

REGISTERED ARCHITECT
F. W. CALLAHAN
08907
STATE OF TEXAS



2 2ND FLOOR PLAN

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

NORTH

1 FLOOR PLAN

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

NOTE: ALL DIMENSIONS MUST BE COORDINATED WITH AND ADJUSTED FOR ACTUAL SIZES OF METAL BUILDING COMPONENTS

WALL TYPES

1. CONCRETE PANEL, METAL STUD WITH BATT INSULATION AND 5/8" GYPSUM BOARD
2. METAL STUDS TO ABOVE CEILING WITH 5/8" GYPSUM BOARD ON EACH SIDE
3. METAL STUDS TO STRUCTURE ABOVE W/ 5/8" GYPSUM BOARD ON TRUCK BAY SIDE ONLY
4. METAL STUDS TO STRUCTURE ABOVE W/ 5/8" GYPSUM BOARD ON TRUCK BAY SIDE TO DECK. - 5/8" GYPSUM BOARD TO ABOVE CEILING ON OFFICE, JANITOR, LOCKERS & MENS SIDE
5. STRUCTURAL METAL STUDS W/ GYP. BD. BOTH SIDES TO WOOD STRUCTURE.
6. CONCRETE PANEL WALL

Handicap Accessible Mirrors:

1. Accessible mirrors shall be located along an accessible route in locations consistent with that of other mirrors in the room or area.
2. A mirror accessible to both ambulatory people and wheelchair users shall be mounted with the bottom edge of the mirror no higher than 40 inches above finish floor. The upper edge of the mirror shall be at least 74 inches above finish floor. floor.
3. In a single occupancy toilet room, or any toilet room providing only one mirror, must provide an accessible mirror. This requires a mirror with a minimum height of 54 inches mounted 40 inches above finish floor.
4. Public toilets with multiple mirrors must provide at least one mirror mounted with the bottom edge no higher than 40 inches above finish floor and at least one mirror with the upper edge of the mirror at least 74 inches above finish floor.

Public Signage Accessibility General Notes:

1. Public signage shall be mounted 60 inches above finish floor measured to the center of the sign. The mounting should be on the wall adjacent to the latch side of the door, 8 inches from the door frame.
2. The signage characters and symbols shall contrast with their background. Signage - characters and background - shall have an eggshell, matte, or other non-glare finish.
3. All letters and numerals shall be raised 1/32 inch, upper case, sans serif or simple serif type, and accompanied by grade 2 braille. The height of the raised characters shall be at least 5/8 inch but not exceeding 2 inches. Characters shall have a width-to-height ratio in a range between 3:5 and 1:1. The stroke width-to-height ration shall be between 1:5 and 1:10. An upper case letter "X" is used for measurement.
4. Any pictograms on public signage shall be accompanied by the equivalent verbal description directly below the pictogram. The border dimension of the pictogram shall not be less than 6 inches in height.
5. Accessible routes and fixtures shall be so marked with the international symbol of accessibility.

Door Accessibility General Notes:

1. Sills and thresholds in doorways shall not change in level greater than 1/2 inch. All sills and thresholds shall be beveled with a slope not exceeding 1:2.
2. Operating devices on accessible doors will be mounted no higher than 48 inches above finish floor.
3. The door closer sweep period shall be adjusted such that from an open position of 70 degrees, the door will take a minimum of 3 seconds to close to 3 inches from the latch as measured at the leading edge of the door.
4. The force required to open an accessible door shall not exceed 5 LBF. This force on hinged doors is measured perpendicular to the door plane at the door opener or 30" inches from the hinge edge (whichever is greater). The force on sliding or folding door is measured at the pull or latch parallel to the door plane.
5. All hardware on accessible doors shall meet accessibility standards. All handles, pulls, latches, locks and other operating devices shall have a shape easy to grab that does not require tight grasping, pinching, or twisting of the wrist to operate.

Grab Bars:

Grab bars shall be mounted with appropriate mounting devices and fasteners in order to provide the structural capabilities of the following specification.

1. The allowable stress for the material of the grab bar shall exceed the bending stress in a grab bar induced by the maximum possible bending moment from the application of a load of 250 lbf.
2. The allowable shear stress for the material of the grab bar shall exceed the shear stress induced in a grab bar by the application of 250 lbf. If the connection between the grab bar and its mounting bracket or other support is considered to be fully restrained, then direct and torsional shear stresses shall be totaled for the combined shear stress, which shall not exceed the allowable shear stress in the grab bar.
3. The fasteners, mounting brackets, and supporting structure shall be designed and installed to resist the shear force induced in a fastener or mounting device from the application of 250 lbf to the grab bar.
4. The fasteners, mounting brackets, and supporting structure shall be designed and installed to resist the tensile force induced in a fastener or mounting device from the direct application of 250 lbf of tensile loading and the maximum possible bending moment from the application of a load of 250 lbf to the grab bar.
5. Grab bars shall not rotate in their mountings.

Handicap Accessible Sinks / Lavatories:

1. A sink counter or rim shall be mounted no more than 34 inches above finish floor.
2. Knee clearance under the sink or counter shall be a minimum of 27 inches high, 30 inches wide, and 19 inches deep.
3. Sink depth shall be a maximum of 6-1/2 inches deep.
4. Faucets shall be lever-operated, push-type, touch-type, or electronically controlled in compliance with the "Texas Accessibility Standards" (TAS), or equivalent regulations.
5. All exposed hot water lines and drain pipes shall be insulated or otherwise configured to protect against contact. The top, edges, and underside of sinks and counters shall be free from sharp, abrasive, or rough surfaces.

REGISTERED ARCHITECT
F. W. CALLAHAN
03907
STATE OF TEXAS

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Speed Fab-Crete Corporation INTERNATIONAL

DRAWN BY: E.N.G.	SCALE: 1/8" = 1'-0"
DATE: 5-12-95	CHKD BY:

FLOOR PLANS

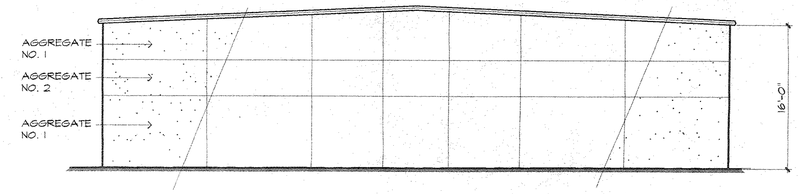
NEW FIRE STATION
for
CITY OF LUCAS

LUCAS, TEXAS

SHEET NO.

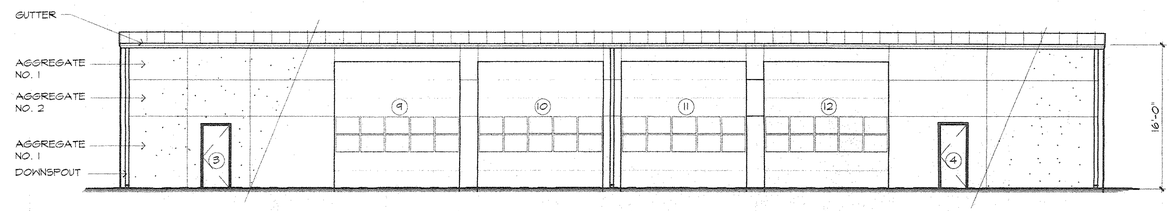
A-3

JOB NO. 01298



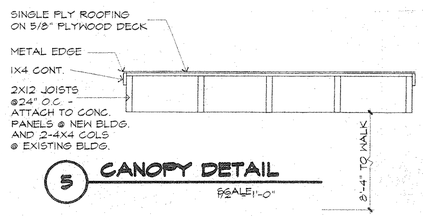
4 SIDE ELEVATION (SOUTH)

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



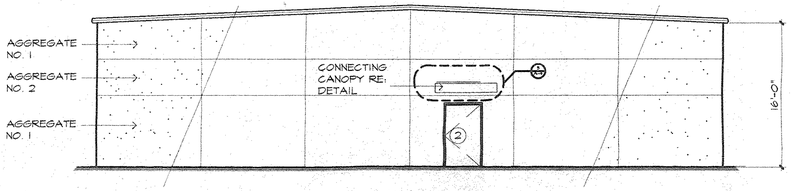
3 REAR ELEVATION (WEST)

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



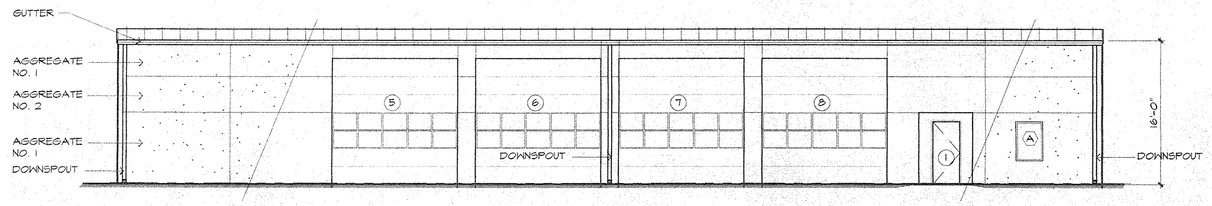
5 CANOPY DETAIL

SCALE 1/2" = 1'-0"



2 SIDE ELEVATION (NORTH)

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



1 FRONT ELEVATION (EAST)

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

REGISTERED ARCHITECT
F. W. CALLAWAY
6507
STATE OF TEXAS

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FORT WORTH, TEXAS 76119

DRAWN BY: E.A.G.
DATE: 5-12-98
SCALE: 1/8" = 1'-0"
CHKD BY:

EXTERIOR ELEVATIONS

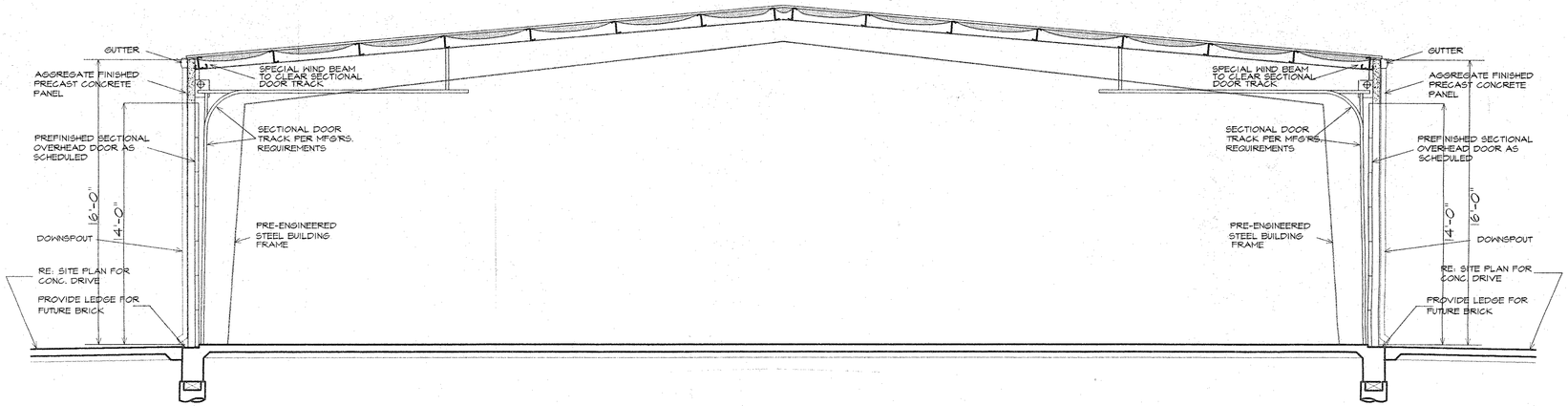
NEW FIRE STATION
for
CITY OF LUCAS

LUCAS, TEXAS

SHEET NO.

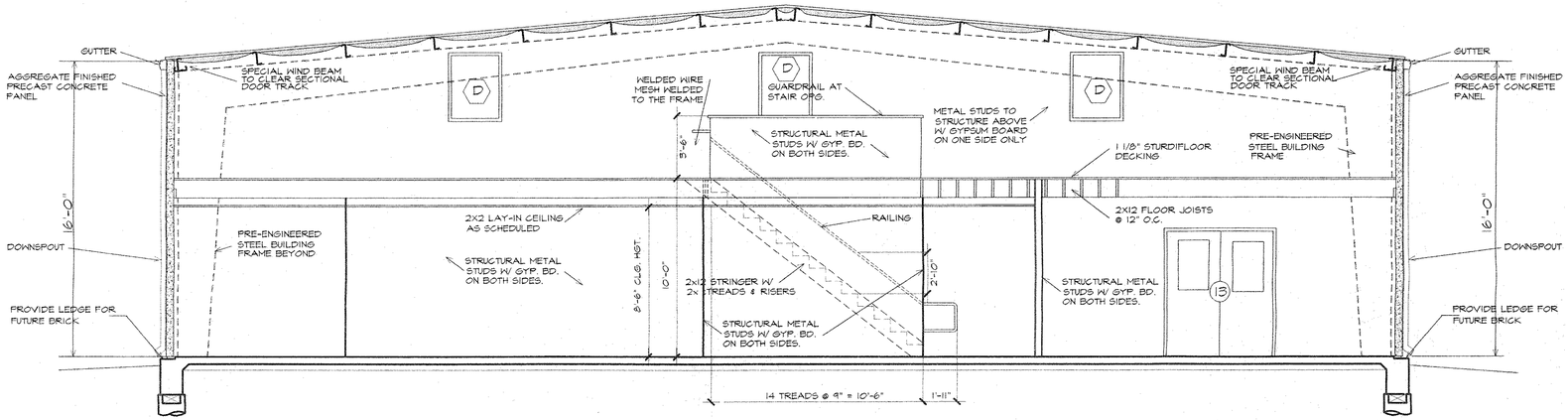
A-4

JOB NO. 01298



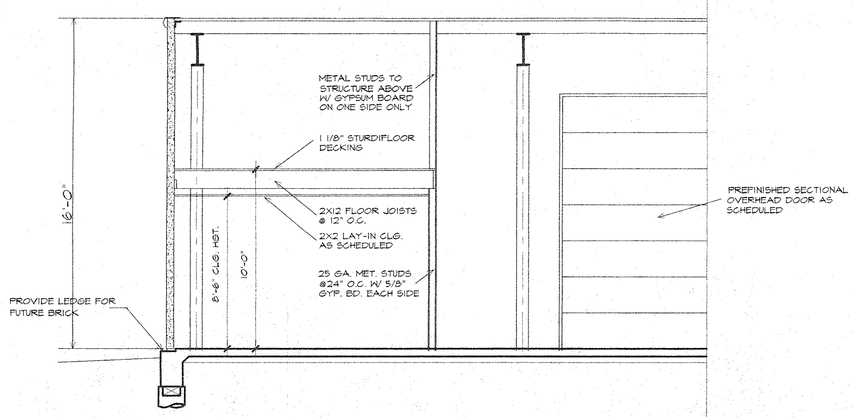
1 BUILDING SECTION

1/4" = 1'-0"



2 BUILDING SECTION

1/4" = 1'-0"



3 BUILDING SECTION

1/4" = 1'-0"

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Speed Fab-Crete CORPORATION INTERNATIONAL

DRAWN BY: E.K.G.	SCALE: NOTED
DATE: 5-12-98	CHK'D BY:

BUILDING SECTIONS

NEW FIRE STATION
for
CITY OF LUCAS

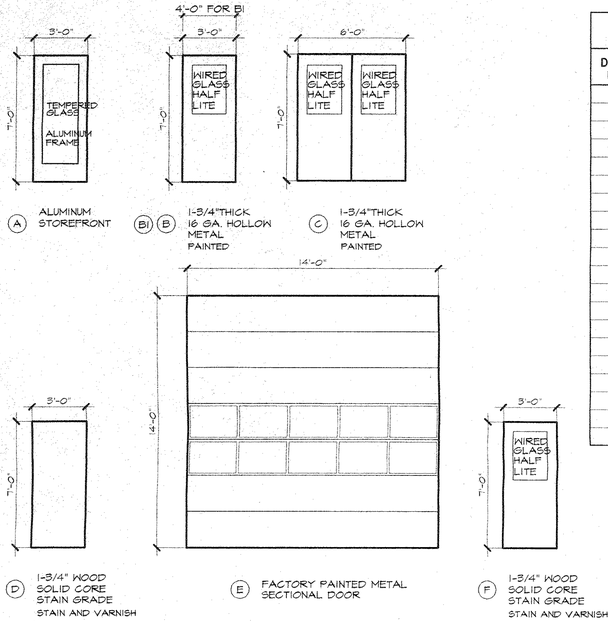
LUCAS, TEXAS

REGISTERED ARCHITECT F. W. CALLAWAY 6267 STATE OF TEXAS

SHEET NO.

A-5

JOB NO. 01296



(A) ALUMINUM STOREFRONT

(B1) (B) 1-3/4"THICK 16 GA. HOLLOW METAL PAINTED

(C) 1-3/4"THICK 16 GA. HOLLOW METAL PAINTED

(D) 1-3/4" WOOD SOLID CORE STAIN GRADE STAIN AND VARNISH

(E) FACTORY PAINTED METAL SECTIONAL DOOR

(F) 1-3/4" WOOD SOLID CORE STAIN GRADE STAIN AND VARNISH

7 DOOR TYPES

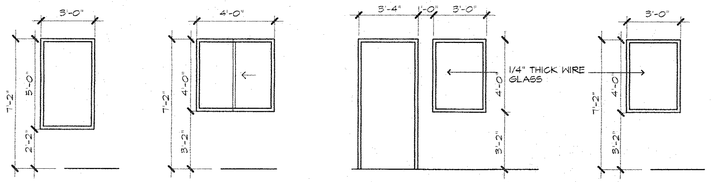
1/4" = 1'-0"

DOOR SCHEDULE

DOOR NO.	TYPE	DOOR THICKNESS	SIZE	FRAME	RATING	SET NO.	HARDWARE SETS
01	A	1 3/4"	3'-0" X 7'-0"	ALUM.		1	HARDWARE SET NO.1
02	B1	1 3/4"	4'-0" X 7'-0"	H.M.		1	HINGES, CLOSER, THRESHOLD,
03	B	1 3/4"	3'-0" X 7'-0"	HM		1	WEATHERSTRIPPING, LOCKSET
04	B	13/4"	3'-0" X 7'-0"	HM		1	
05	E	-	14'-0" X 14'-0"	-		2	HARDWARE SET NO.2
06	E	-	14'-0" X 14'-0"	-		2	24 GA. METAL/ALUM-AUTOMATIC OPENERS
07	E	-	14'-0" X 14'-0"	-		2	ALL HARDWARE BY MFG. W/ LOCKS
08	E	-	14'-0" X 14'-0"	-		2	
09	E	-	14'-0" X 14'-0"	-		2	HARDWARE SET NO.3
10	E	-	14'-0" X 14'-0"	-		2	HINGES, 1 CLOSER,ASTRAGAL, TOP & BOTTOM
11	E	-	14'-0" X 14'-0"	-		2	BOLTS, SMOKE SEALS, LOCKSET
12	E	-	14'-0" X 14'-0"	-		2	
13	C	1 3/4"	FR. 3'-0" X 7'-0"	HM		3	HARDWARE SET NO.4
14	F	1 3/4"	3'-0" X 7'-0"	WD		4	HINGES, LOCKSET,SILENCERS
15	F	1 3/4"	3'-0" X 7'-0"	WD		4	
16	F	1 3/4"	3'-0" X 7'-0"	WD		5	HARDWARE SET NO.5
17	D	1 3/4"	3'-0" X 7'-0"	WD		6	HINGES, LOCKSET,CLOSER,SMOKE SEALS
18	D	1 3/4"	3'-0" X 7'-0"	WD		6	
							HARDWARE SET NO.6
							HINGES, LATCHSET,CLOSER,SILENCERS

NOTES:

- ALL INTERIOR PAINT SHALL BE SEMI GLOSS ENAMEL (WASHABLE).
- INTERIOR TEXTURE WALL FINISH SHALL BE SPANISH DRAG.



(A) H.M. FRAME W/ 1/4" TINTED GLASS

(B) AL. FRAMED SLIDER

(C) H.M. FRAME W/ TEMPERED GLASS

(D) H.M. FRAME GLASS

6 WINDOW ELEVATIONS

1/4" = 1'-0"

ALL GLASS AND FRAMES ARE TO COMPLY WITH CODE REQUIREMENTS. (TEMPERED OR LAMINATED REQUIREMENTS)

ROOM FINISH SCHEDULE

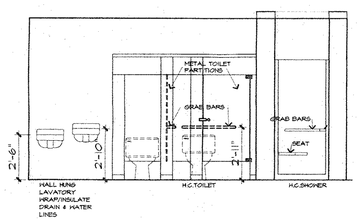
ROOM NO.	SIZE	FLOORS: V.C.T.-1/8"	FLOORS: RED EPOXY W/ GRIT	FLOORS: SEALED CONC.	FLOORS: EXPOSED STRUD/FLOOR	BASE: RUBBER 4"	BASE: FRP WAINSCOT 48" HIGH	WALL FINISH: GYP. BD. TAPE BED, TEXTURE, PAINT	WALL FINISH: PAINTED CONCRETE	CEILING: 2X2 LAY IN	CEILING: EXPOSED STRUCTURE-PAINTED	CEILING: 5/8" GYPSUM BOARD, T&B & P	CEILING HEIGHT	
101	OFFICE/RADIO	●				●		●		●			9'-0"	
102	OFFICE	●				●		●		●			9'-0"	
103	JANITOR	●				●	●	●		●			8'-0"	MOISTURE RESISTANT CEILING
104	MEN LOCKERS	●				●	●	●		●			8'-0"	MOISTURE RESISTANT CEILING
104A	WOMEN LOCKERS	●				●	●	●		●			8'-0"	MOISTURE RESISTANT CEILING
105	MEN	●				●	●	●		●			8'-0"	MOISTURE RESISTANT CEILING
106	WOMEN	●				●	●	●		●			8'-0"	MOISTURE RESISTANT CEILING
107	ELECTRICAL			●		●		●				●	8'-0"	
108	TRUCK BAYS		●			●		▲	▲		●		MAX	
109	STORAGE		●			●		●			●		MAX	
110	HOSE STORAGE		●			●			●		●		MAX	
111	BUNKER GEAR		●			●		▲	▲		●		8'-6"	
112	SUPPLY STOR.			●		●		▲	▲		●		8'-6"	
113	CORRIDOR		●			●		▲	▲	●			9'-0"	
201	STORAGE				●			▲	▲		●		MAX	

SHAPED AREAS REPRESENT WALLS THAT RECEIVE REQUIRED FINISH

DOT REPRESENTS ALL WALLS RECEIVE REQUIRED FINISH

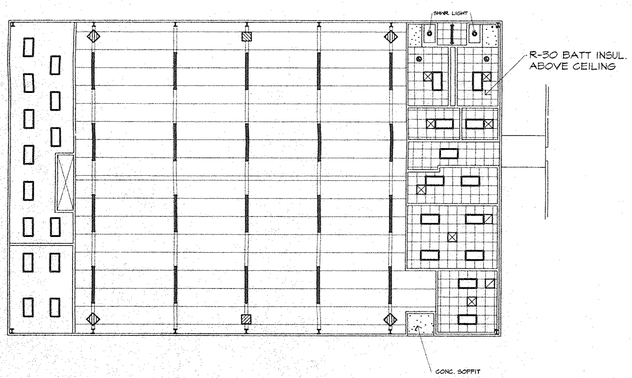
ROOM FINISH SCHEDULE NOTES

1. INSTALL "WR" GYPSUM BOARD ON ALL WET WALLS INCLUDING ALL FOUR WALLS OF WOMEN 106, MEN 105, JANITOR 103, ON WALLS AROUND EWC, AND LOCKERS 104.
2. INSTALL 5/8" TYPE "X" GYPSUM BOARD UNLESS NOTED OTHERWISE
3. TAPE AND BED ALL GYPSUM BOARD; PROVIDE TEXTURE AND PAINTED FINISH PER FINISH SCHEDULE
4. PROVIDE AND INSTALL 2'-0" X 2'-0" INVERTED T-BAR CEILING GRID WITH FISSURED LAY-IN MINERAL FIBER CEILING BOARD.
5. INTERIOR DRYWALL WILL CONSIST OF 3 5/8" 25 GAUGE METAL STUDS SPACED AT 2'-0" ON CENTER W/ 5/8" GYP. BD. ATTACHED W/ DRYWALL SCREWS WALLS AGAINST OUTSIDE CONC. WALLS (AT OFFICE/ RESTROOM AREAS) WILL RECEIVE 3 1/2" FIBERGLASS BATT INSULATION (R-11). WALLS BEHIND PLUMBING. FIXTURES TO RECIEVE WATER RESISTANT(GREEN BD.) GYP. BD. ALL WALL MOUNTED ITEMS SHOWN WILL BE BACKED UP IN DRYWALL W/ 2X6 WOOD MATERIAL
6. INVERTED "T"BAR CEILING WILL CONSIST OF 2' X 2' INVERTED T GRID BY US GYPSUM OR EQ. W/ SQUARE EDGE, OMNI FISSURED CLASS A CEILING TILE. R-19 , 6" FIBERGLASS BATT INSULATION WILL BE LAID ATOP THE TILES
7. HOLLOW METAL DOORS & FRAMES WILL CONSIST OF 20 GAUGE METAL SKIN , HONEYCOMB CORE , DOORS SET IN 16 GAUGE METAL FRAMES.
8. STANDING SEAM METAL ROOF WILL CONSIST OF 24 GAUGE GALVALUME METAL ROOF OVER 3" FIBERGLASS BATT INSULATION W/ WHITE VINYL FACE. THE GUTTERS ,RAKE TRIM & DOWNSPOUTS WILL BE 26 GAUGE FACTORY PAINTED METAL.
9. VINYL COMPOSITION FLOOR TILE WILL CONSIST OF 1/8" THICK TILE SELECTED FROM MANUF. STANDARD BASE STOCK



3 WOMEN 106

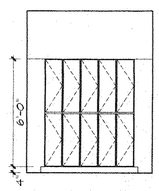
1/4" = 1'-0"



NORTH

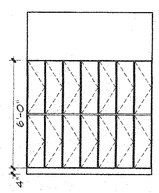
4 REF. CLG. PLAN

1/16" = 1'-0"



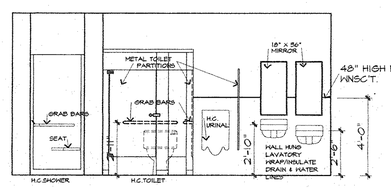
5 LOCKERS 104

1/4" = 1'-0"



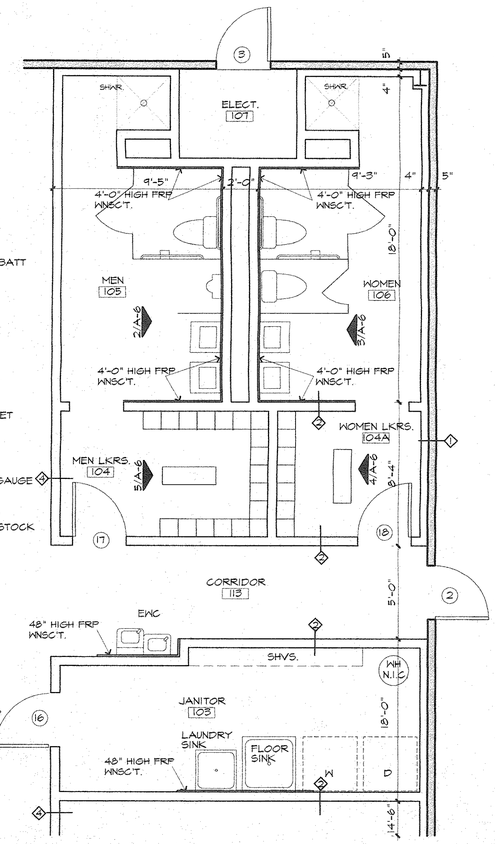
4 LOCKERS 104A

1/4" = 1'-0"



2 MEN 105

1/4" = 1'-0"



1 ENLARGED PLAN

1/4" = 1'-0"

REGISTERED ARCHITECT F. W. CALLAHAN 08907 STATE OF TEXAS

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U.S. PATENT NO. 3-555-783

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817/478-1137 572-0351

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P.O. BOX 150080
FORT WORTH, TEXAS 76119

SCALE:	1/8" = 1'-0"
DRAWN BY:	E.K.G.
DATE:	5-21-98
	SCHEDULES & INTERIOR ELEVATIONS

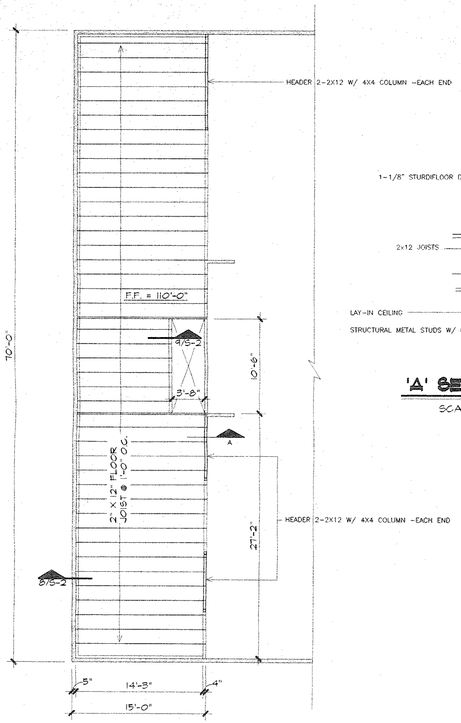
NEW FIRE STATION for CITY OF LUCAS

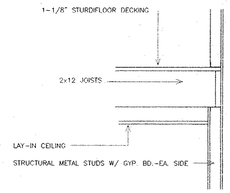
LUCAS, TEXAS

SHEET NO.

A-6

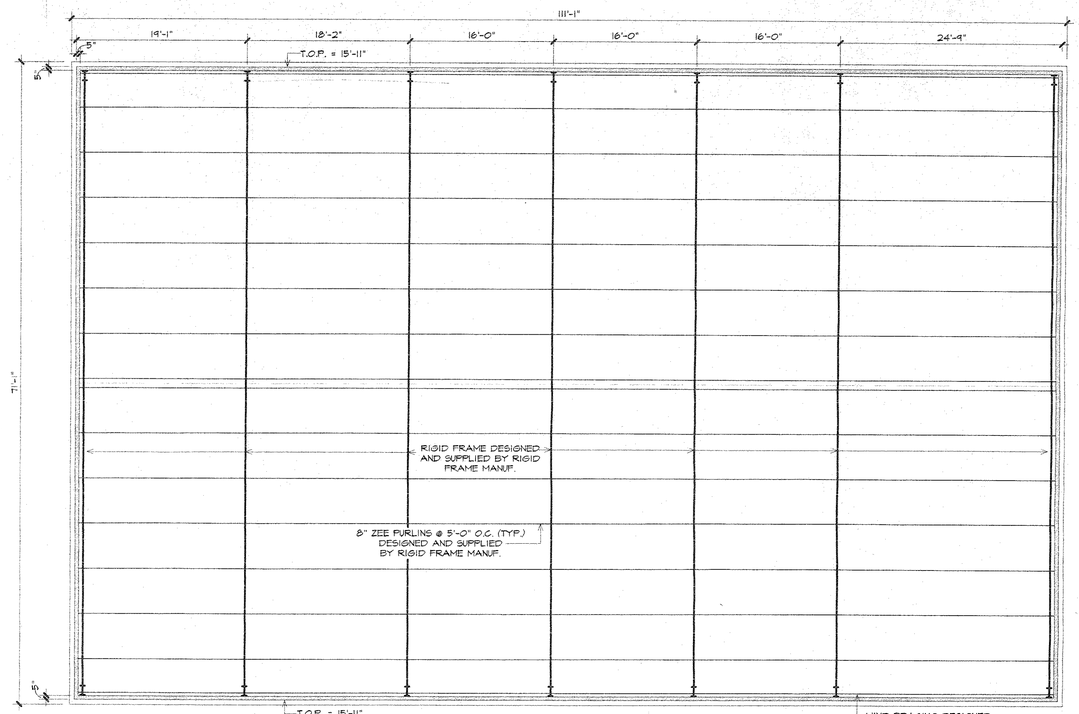
JOB NO. 01298





'A' SECTION

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



FRAMING PLAN

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

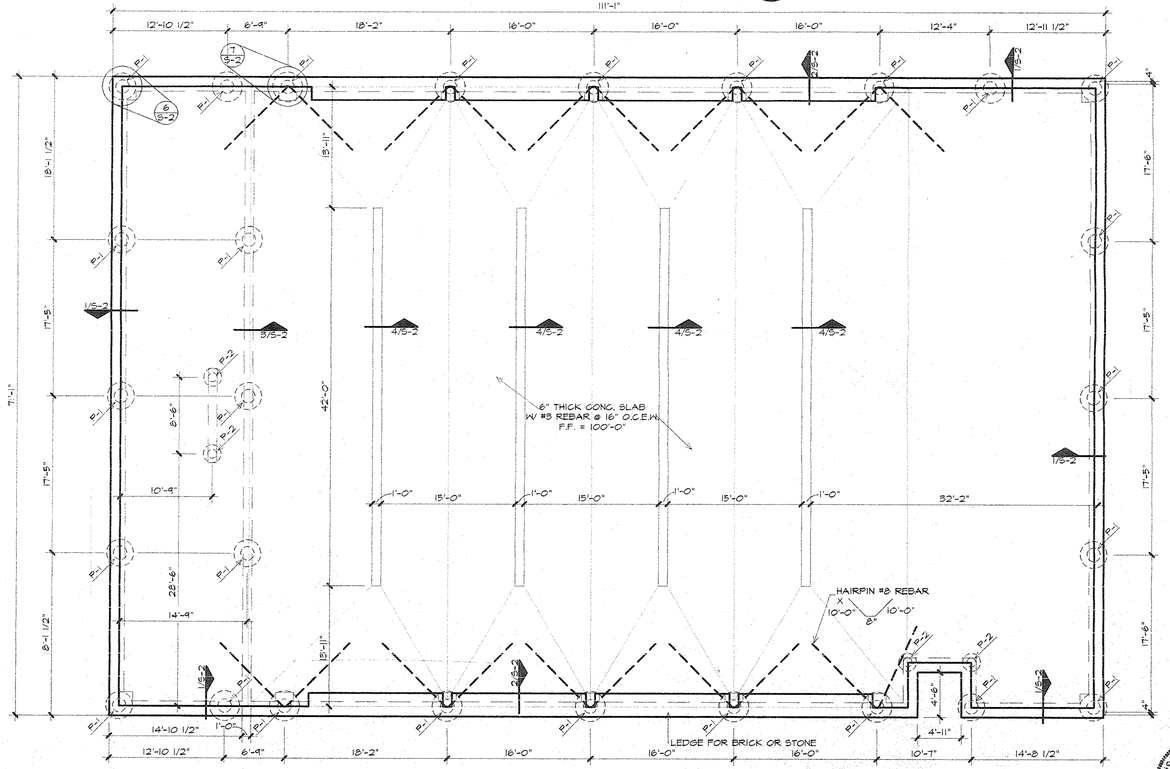
2nd FLOOR FRAMING PLAN

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

1. CODE: UNIFORM BUILDING CODE, 1991 EDITION
2. DESIGN LOADS:
   LIVE LOADS:
   ROOF . . . . . 20 PSF
   2nd FLOOR . . . . . 125 PSF
   WIND LOADS:
   MEAN RECURRENCE INTERVAL . . . . . 50 YEARS
   BASIC WIND SPEED . . . . . 120 MPH
   DESIGN PRESSURE (0'-30') . . . . . 13 PSF
   SEISMIC DESIGN . . . . . ZONE 0
3. SOILS:
   A. REFER TO REPORT PREPARED BY: A.T. LABORATORIES INC. FOR: FIRE STA.-LUCAS,TX DATE: 4/3/98 JOB NO. 98G137
   B. FOUNDATION SYSTEM DESIGN CRITERIA: THE BUILDING SITE SHALL BE STRIPPED OF VEGETATION, ROOTS, AND OTHER ORGANIC MATERIAL. TOP SOIL SHALL BE SCARIFIED TO A DEPTH OF 6" TO 8" IN THE RANGE OF 2% TO 6% ABOVE THE SOILS OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D-698.
   (2'-0" SELECT FILL MIN.) OVER CHEMICAL INJECTED CLAY
   C. IT IS THE SOLE RESPONSIBILITY OF THE OWNER TO PROVIDE SOIL TESTING TO CONFIRM THE ABOVE NOTED INFORMATION IS CORRECT. IF THE ABOVE NOTED INFORMATION IS NOT CORRECT THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD PRIOR TO PROCEEDING WITH CONSTRUCTION.
4. CONCRETE:
   A. NORMAL-WEIGHT CONCRETE, (W=145 PCF): (AIR-ENTRAINED, EXCEPT FOR PIERS.)
   MINIMUM COMPRESSIVE STRENGTHS:
   PIERS . . . . . 3000 PSI
   PLINTHS . . . . . 3000 PSI
   SLABS ON GRADE . . . . . 4000 PSI
   GRADE BEAMS . . . . . 3000 PSI
   WALLS . . . . . 3000 PSI
   SECOND FLOOR DECK . . . . . 3000 PSI
   B. ALL CEMENT SHALL CONFORM TO ASTM C-150 TYPE 1 OR 111.
   C. CONSTRUCTION JOINTS: LOCATE AT THE CENTER OF SPANS. SUBMIT LOCATION OF JOINTS IN SLABS OR BEAMS.
   D. SHORE PROPERLY BEFORE BACK FILLING AGAINST EARTH RETAINING WALLS.
   E. FACES OF GRADE BEAMS NOT EXPOSED MAY BE EARTH FORMED, PROVIDED BEAM WIDTHS SHOWN ON THESE DRAWINGS ARE INCREASED BY 3". ONLY CONCRETE SHALL BE USED TO FILL OVER EXCAVATED EARTH FORMED BEAMS.
5. REINFORCING STEEL:
   A. BARS - CONFORM TO ASTM A-615 (PLUS S1) - GRADE 60, DOWELS AND STIRRUPS - GRADE 40.
   B. WELDED WIRE FABRIC - CONFORM TO ASTM A-185 OF A-497. FURNISH IN FLAT SHEETS.
   C. DETAILING - CONFORM TO ACI DETAILING MANUAL, SP-66 AND 318.
   REINFORCING STEEL COVERAGE:
   FOOTINGS . . . . . 3" BOTTOM, 2" SIDES
   GRADE BEAMS . . . . . 1-1/2" TOP, 3" BOTTOM, 2" SIDES (3" SIDES, IF EARTH FORMED.)
   SLABS ON GRADE . . . . . 1-1/4" TOP
   SLABS ABOVE GRADE . . . . . 3/4"
   D. LAP CONTINUOUS UNSCHEDULED REINFORCING STEEL AS FOLLOWS: BOTTOM BARS IN MEMBERS SUPPORTED BY COLUMNS OR FOOTINGS -12", ALL OTHERS 30 BAR DIAMETERS.
   E. PROVIDE 90 DEGREE BENDS AND 12" RETURNS AT CORNERS FOR HORIZONTAL WALL REINFORCING.
   F. SPACE STIRRUPS FROM FACE OF SUPPORT.
   G. PROVIDE STANDARD BARCHAIRS WITH PROTECTIVE TIPS AND SPACERS AT SLABS ON GRADE. BARCHAIRS SHALL BE SPACED AT 4'-0" MAXIMUM CENTERS EACH WAY.
6. PRECAST WALL PANELS:
   A. THESE WALL PANELS HAVE BEEN DETAILED BASED ON THE SPEED FAB-CRETE SYSTEM. USE OF WALL PANELS OTHER THAT THOSE PRODUCED BY SPEED FAB-CRETE WILL BE ACCEPTED ONLY IF ONE OF THE FOLLOWING CONDITIONS ARE MET:
      A. ENGINEERING DRAWINGS, AND CALCULATIONS ARE SEALED BY A REGISTERED PROFESSIONAL ENGINEER REGISTERED IN TEXAS, AND SUBMITTED TO THE ARCHITECT FOR APPROVAL.
      B. THE WALL PANEL SYSTEM IS APPROVED BY THE INTERNATIONAL CONGRESS OF BUILDING OFFICIALS (ICBO) AND THE CORRESPONDING ICBO CARD NUMBER AND ICBO APPROVAL LETTER IS SUBMITTED TO THE ARCHITECT FOR APPROVAL.
   B. PRECAST WALL PANELS SUPPLIED BY SPEED FAB-CRETE SHALL BE DESIGNED, DETAILED, FABRICATED, AND ERECTED AS PER ICBO REPORT #3914, DATED FEBRUARY 1985.
7. STEEL FRAMING:
   A. CONFORM TO ASTM A-36, A-53 GR.B (FOR PIPE) AND A-500 GR.B (FOR TUBING), AND THE STANDARDS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION. ALL STEEL GRADE 36 K 51
   B. FIELD CONNECTIONS SHALL BE EQUIVALENT TO STANDARD BOLTED CONNECTIONS USING 3/4" ASTM A-307 BOLTS UNLESS OTHERWISE SHOWN. IF CONNECTION BOLTS ARE IN SINGLE SHEAR, BOLTS SHALL BE PLACED IN TWO VERTICAL ROWS.
   C. WELDING SHALL CONFORM TO THE "CODE FOR WELDING IN BUILDING CONSTRUCTION" BY THE AMERICAN WELDING SOCIETY, LATEST EDITION. WELDS NOT CALLED OUT ON DRAWINGS SHALL BE 1/4" CONTINUOUS FILLET WELDS. WELDING ELECTRODES SHALL CONFORM TO AWS A5.1 OR A5.5 E70XX.
   D. EXPANSION BOLTS - 3/4" DIAMETER WITH TWO INDEPENDENTLY ACTING, SPRING STEEL EXPANDER SEGMENTS, QUICK-BOLT ANCHORS, OR EQUAL. MINIMUM ALLOWABLE PULLOUT - 49,000 LBS. CONFORM TO FEDERAL SPECIFICATIONS FF-S-325 AND 002-325B.

GENERAL WOOD FRAMING:

A. Design Loads:
   Live Loads - floor . . . . . 125 psf
   - stairs and landing.....50 psf
   Wind Loads - basic wind speed.....120mph
   - pressure.....13 psf
   Seismic design.....zone 0
B. The quality of lumber and design for load-supporting members shall conform to the Standards of National Design Specifications for Stress Grade Lumber and it's fastenings.
C. All members shall be so framed, anchored, tied and braced as to comply with the Standards of national Design Specifications for Wood Construction, and all Local Codes.
D. Lumber grades shall be as follows:
   Rafters and Joists: SYP, 19%, M.C., #2 Fb = 1200 psi
   Studs. SYP, stud grades
   Columns and posts: SYP, 19%, M.C., #2 Fb = 975 psi
E. Joists shall be laterally supported with solid blocking at each end support, except where the ends of the joist are nailed to a header, a rim joist, or to an adjoining stud. Solid blocking shall be not less than 2" (nominal) in thickness and shall match the depth of the joist.
F. Roof Rafters 2x12 and larger shall be supported laterally by bridging installed at intervals not exceeding 8'-0".
G. Provide a minimum of 2 studs each side of door or window openings, full height of wall.
H. All door and window headers not shown on the plan, shall be double 2x8's with plywood spacer.
I. All connectors shall be Strong-Tie connectors by Simpson Co. or approved equal.
J. All wood in direct contact with concrete or masonry shall be treated lumber.
K. Plywood shall meet the requirements of the latest edition of the U.S. Product Standard P.S.1. American Plywood Association.



FOUNDATION PLAN

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

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Speed Fab-Crete CORPORATION INTERNATIONAL

DRAWN BY: RP	SCALE: AS NOTED
DATE: 5-12-98	CHKD BY: RP

FOUNDATION / FRAMING

NEW FIRE STATION FOR THE CITY OF LUCAS
LUCAS, TEXAS

REGISTERED ARCHITECT T. W. CALLAHAN 08907 STATE OF TEXAS

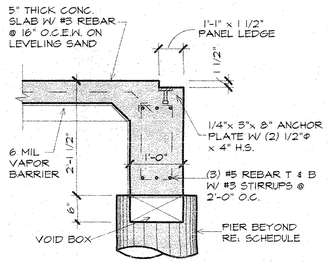
SHEET NO.

S-1

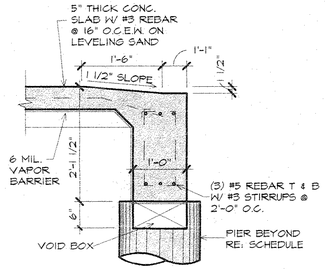
JOB NO. 01298

LEGEND

T.E.	=	TAG END
F.T.E.	=	FROM TAG END
O.C.	=	ON CENTER
O.C.E.W.	=	ON CENTER EACH WAY
F.F.	=	FINISH FLOOR
A.F.F.	=	ABOVE FINISH FLOOR
W/	=	WITH
CONT.	=	CONTINUOUS
BRG.	=	BEARING
RE:	=	REFER TO
L.L.V.	=	LONG LEG VERTICAL
T.O.W.	=	TOP OF PRECAST WALL
T.O.G.	=	TOP OF GIRDER
T.O.A.	=	TOP OF ANGLE
T.O.B.	=	TOP OF BEAM
W.W.F.	=	WELDED WIRE FABRIC
U.N.O.	=	UNLESS NOTED OTHERWISE



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



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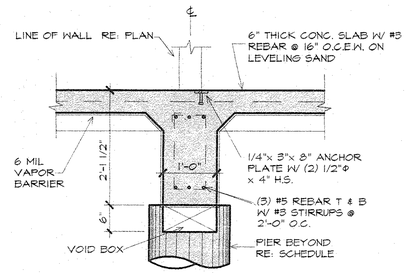
SCALE: 3/4" = 1'-0"



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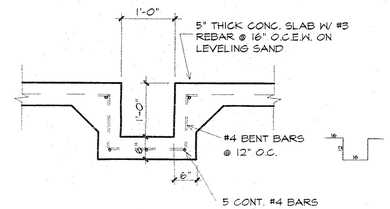
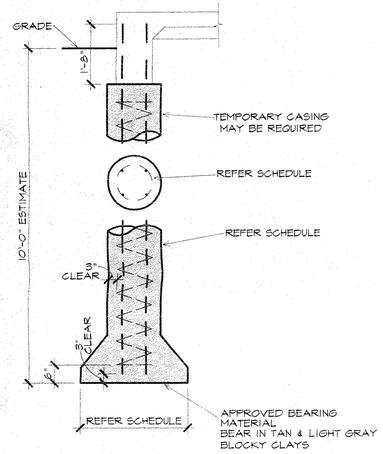
SCALE: 3/4" = 1'-0"

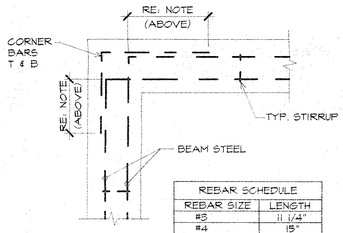


4 SECTION
SCALE: 3/4" = 1'-0"



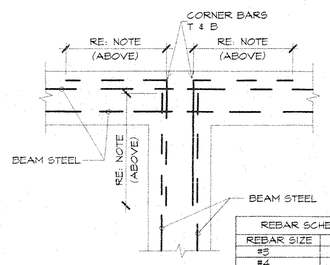
5 SECTION
SCALE: 3/4" = 1'-0"

NOTE: BELOW THE STANDARD DETAIL FOR CORNER BARS AT PERIMETER CORNERS. ALL REINFORCING IN CONC. MUST BE LAPED A MIN. OF 30 TIMES THE DIAMETER OF THE STEEL. RE: SCHEDULE BELOW.



REBAR SCHEDULE	
REBAR SIZE	LENGTH
#3	11 1/4"
#4	15"
#5	18 3/4"
#6	22 1/2"
#7	26 1/4"

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



REBAR SCHEDULE	
REBAR SIZE	LENGTH
#3	11 1/4"
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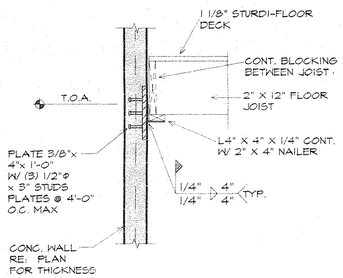
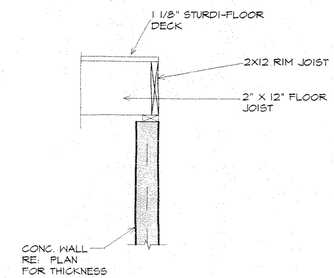
7 SECTION
SCALE: 3/4" = 1'-0"



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



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

PIER SCHEDULE

MK.	SHAFT	BELL	REINF.
P1	24"	48"	6-#5's - #3 TIES @ 12"
P2	18"	36"	5-#5's - #3 TIES @ 12"

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Speed Fab-Crete Corporation INTERNATIONAL

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DRAWN BY: RP	SCALE: AS NOTED
DATE: 5-12-98	CHK BY: RP

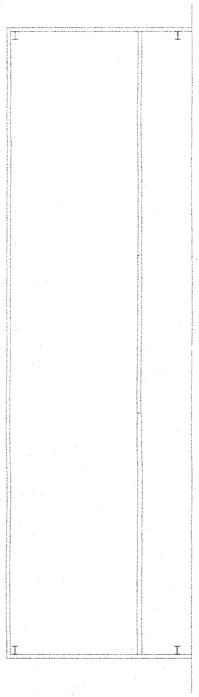
STRUCTURAL DETAILS

NEW FIRE STATION
FOR THE
CITY OF LUCAS
LUCAS, TEXAS

REGISTERED ARCHITECT F. W. CALLAHAN 10803 STATE OF TEXAS

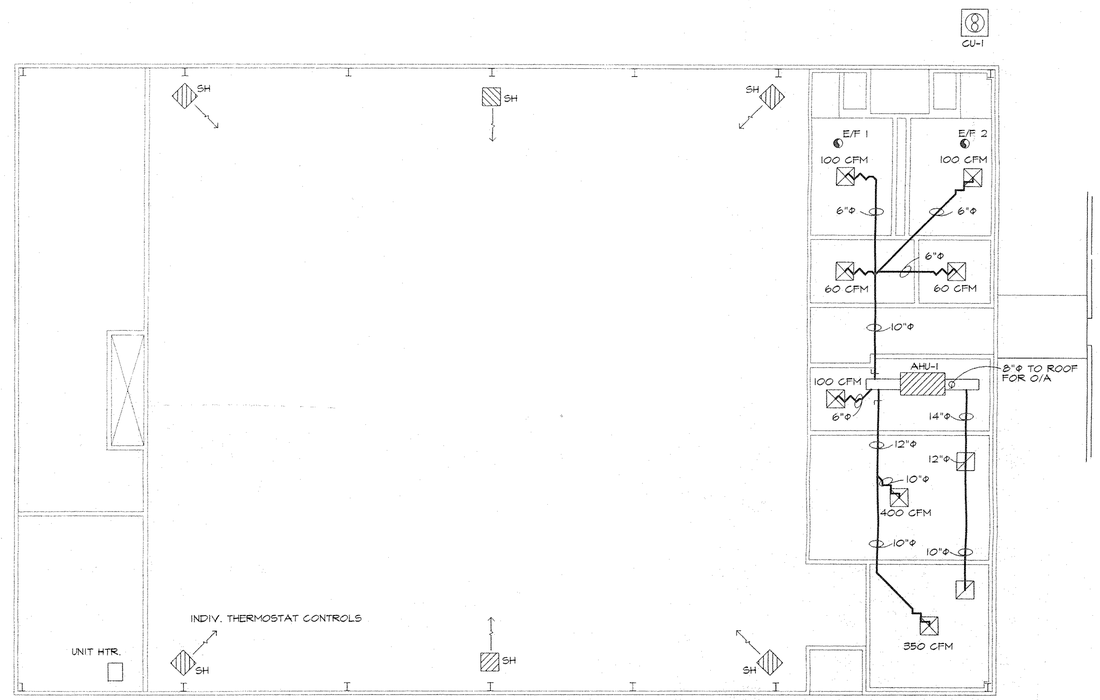
SHEET NO.
S-2

JOB NO. 01298



1 2ND FLOOR PLAN - MECHANICAL

1/8" = 1'-0"



NORTH

1 FLOOR PLAN - MECHANICAL

1/8" = 1'-0"

MECHANICAL EQUIPMENT SCHEDULE

AIR CONDITIONING EQUIPMENT SCHEDULE
CU-1: LENNOX HS29-413 - 3 TON - 208/240-1Φ - MCA: 14 AMPS - MCOP 20 AMPS
AHU: LENNOX CB29M-41 - HEAT: 29 AMPS @ 208-1Φ - 32 AMPS @ 240-1Φ
EXHAUST FAN SCHEDULE
E/F 1&2: DAYTON #20065 - 160 CFM - 115 VOLT - 1.0 AMP
GAS FIRED INFRARED SPACE HEATERS
S.H.: RE-VERBER-RAY DR-60 - 60,000 BTUH/HR INPUT - 1780° NORMAL CERAMIC OPERATING TEMP.
PROPANE TANK & SERVICE LINE SHALL BE PROVIDED BY OTHERS.

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DRAWN BY: E.N.G.
SCALE: 1/8" = 1'-0"
DATE: 5-12-98
REVISED BY:

FLOOR PLAN - MECHANICAL

NEW FIRE STATION
for
CITY OF LUCAS

LUCAS, TEXAS

SHEET NO.

M-1

JOB NO. 01298

NORTH

4 2nd FLOOR PLAN - LIGHTING

1/8" = 1'-0"

NORTH

4 FLOOR PLAN - LIGHTING

1/8" = 1'-0"

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DRAWN BY: E.K.G.
SCALE: 1/8" = 1'-0"
DATE: 5-12-98
CHECK BY:
FLOOR PLAN - LIGHTING

NEW FIRE STATION
for
CITY OF LUCAS

LUCAS TEXAS

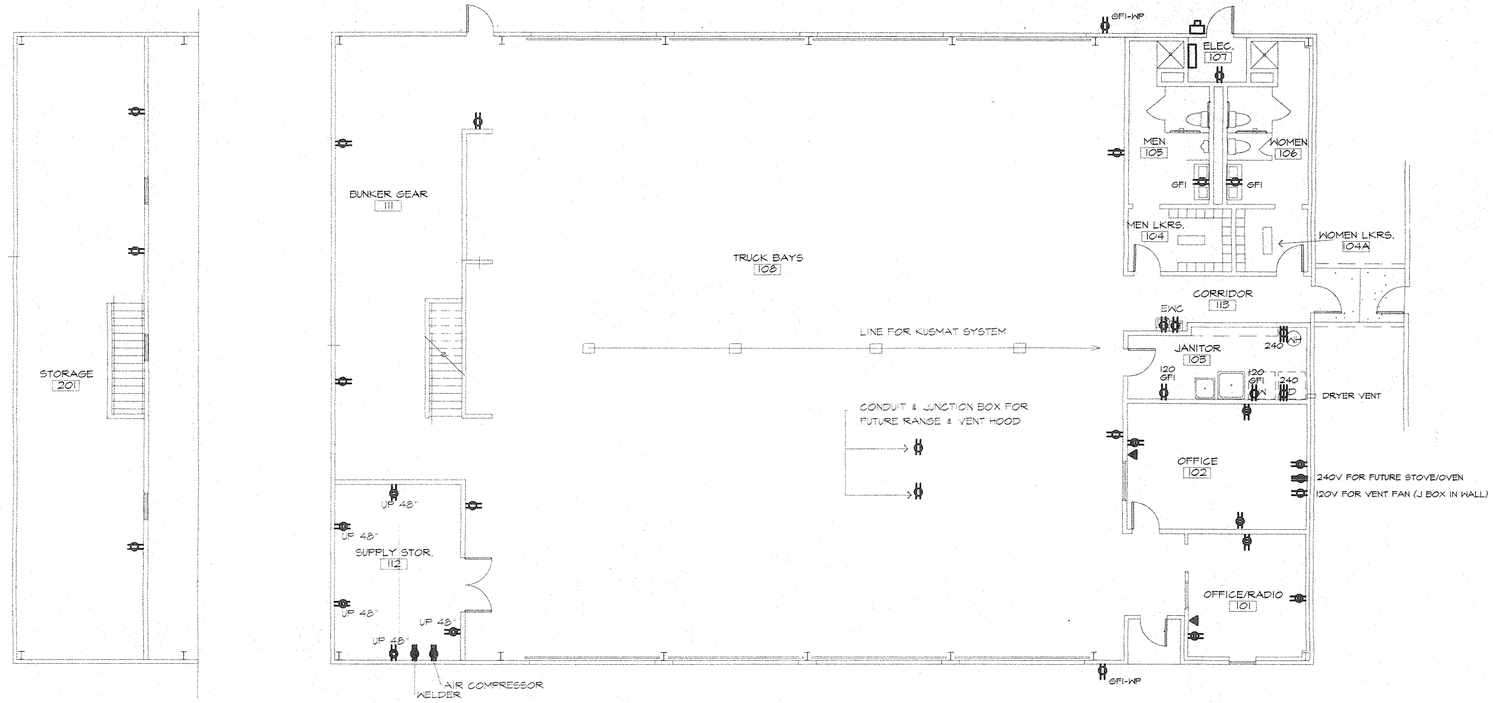
REGISTERED ARCHITECT
T. W. SALAMAK
08907
STATE OF TEXAS

SHEET NO.

E-1

JOB NO. 01298

SERVICE VOLTAGE?
SINGLE OR 3 PHASE?



4" WIRE TRAP?
3-220 RECPTACLES? AMPS & PHASE?

NORTH

2 **2ND FLOOR PLAN - POWER**
SCALE: 1/8" = 1'-0"

1 **FLOOR PLAN - POWER**
SCALE: 1/8" = 1'-0"

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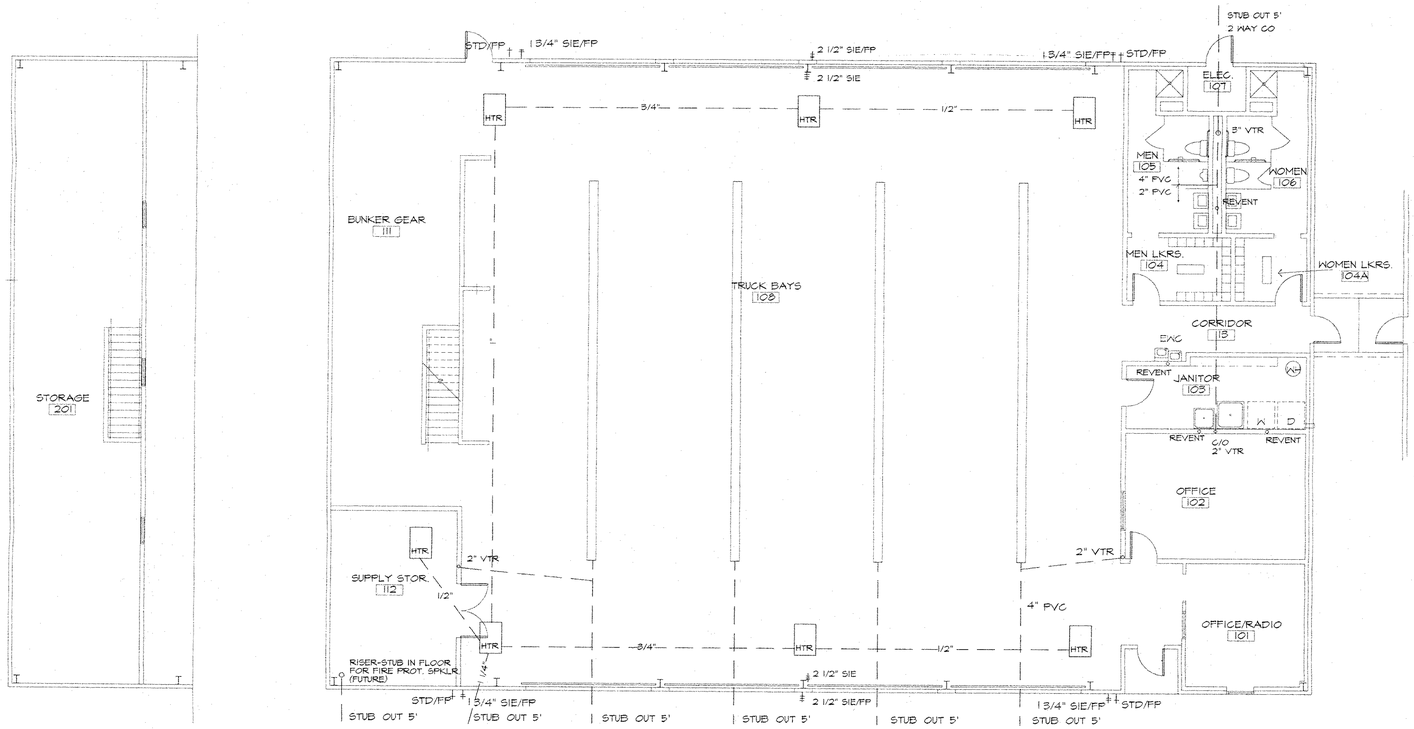
DRAWN BY: E.A.S. SCALE: 1/8" = 1'-0"
DATE: 5-12-95 DWG BY:
FLOOR PLAN - POWER

NEW FIRE STATION
for
CITY OF LUCAS
LUCAS, TEXAS

REGISTERED ARCHITECT
C. W. CALLAHAN
STATE OF TEXAS

SHEET NO.
E-2

JOB NO. 01298



2 SECOND FLOOR PLAN PLUMBING

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

NORTH

1 FIRST FLOOR PLAN PLUMBING

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

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DRAWN BY: R. P.	SCALE: 1/8" = 1'-0"
DATE: 5-12-98	CHKD BY:

FLOOR PLAN - MECHANICAL

NEW FIRE STATION for CITY OF LUCAS

LUCAS, TEXAS

REGISTERED ARCHITECT F. W. CALLAHAN 10907 STATE OF TEXAS

SHEET NO.

P-1

JOB NO. 01298