GENERAL NOTES

CODES AND STANDARDS

BUILDING CODE:	1981 DALLAS BUILDING CODE	
CONCRETE AND REINFORCING:	AMERICAN CONCRETE INSTITUTE. "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-77).	
STRUCTURAL STEEL:	AMERICAN INSTITUTE OF STEEL CONSTRUCTION. "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".	
STEEL DECK:	STEEL DECK INSTITUTE. "STEEL ROOF DECK DESIGN MANUAL".	
OPEN WEB STEEL JOISTS AND JOIST GIRDERS:	STEEL JOIST INSTITUTE. "STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS, (H, LH OR DLH) SERIES".	
MASONRY:	BRICK INSTITUTE OF AMERICA. "BUILDING CODE REQUIREMENTS FOR ENGINEERED BRICK MASONRY" AND NATIONAL CONCRETE MASONRY.	

DESIGN LOADS

LIVE LOADS

ROOF	(LL)	20	PSF
ROOF	(DL)	30	PSF
GROUND FLOOR	(LL)	100	PSF
APPARATUS ROOM	(LL)	400	PSF
TRAINING CTR. ROOF		100	PSF
WIND LOAD 0'-29'		20	PSF
ROOF UPLIFT		15	PSF
TRAINING CTR WIND LOAD		150	PSF
:ROOF UPLIFT		100	PSF

STRENGTHS OF MATERIALS

FOUNDATION: REFER TO GENERAL NOTES SECTION 2300

CONCRETE: REFER TO CONCRETE MIX SCHEDULE SECTION 3300

REINFORCING: #3 BARS Fy = 40,000 PSI

ALL OTHER Fy = 60,000 PSI

MASONRY: REFER TO GENERAL NOTES SECTION 4000

STRUCTURAL STEEL:

BEAMS, PLATES, ANGLES Fy = 36,000 PSI

PIPE COLUMNS Fy = 36,000 PSI

STEEL JOISTS: H OR LH SERIES Fy = 50,000 PSI

GENERAL

1. "TYPICAL DETAILS" ON SHEETS S5 & S6 APPLY TO ALL CONDITIONS OF THE PROJECT SIMILAR TO THOSE SHOWN IN THE DETAILS REGARDLESS OF WHETHER OR NOT THEY ARE SPECIFICALLY REFERENCED ON THE PLANS.

1502 PLANS, SECTIONS AND DETAILS ARE NOT TO BE SCALED FOR DETERMINATION OF QUANTITIES, LENGTHS OR FIT OF MATERIALS

1503 ABBREVIATIONS USED ON THE DRAWINGS CONFORM TO THE CONSTRUCTION SPECIFICATION INSTITUTE STANDARD "MP-8 ABBREVIATIONS" EXCEPT AS NOTED HEREIN.

1504 VERIFY FLOOR SLAB DEPRESSIONS AND OFFSETS WITH THE ARCHITECTURAL DRAWINGS.

1505 VERIFY WEIGHT, LOCATION AND DETAILS OF ROOF-MOUNTED EQUIPMENT PRIOR TO FABRICATION OF MATERIALS.

1506 VERIFY SIZE, LOCATION AND DETAILS OF ROOF OPENINGS PRIOR TO FABRICATION OF MATERIALS.

1507 VERIFY JOB SITE CONDITIONS, DIMENSIONS OF EXISTING STRUCTURES, ETC. THAT ARE INDICATED TO BE MATCHED OR MEETING NEW CONSTRUCTION PRIOR TO DETAILING OR FABRICATION OF MATERIALS.

SELECT FILL UNDER BLDG. SLABS

2226 LOCATION: UNDER ALL BLDG. SLABS

2227 REMOVE TOPSOIL AND VEGETATION, AND EXCAVATE AS REQUIRED TO PROVIDE FOR A MINIMUM FILL THICKNESS OF 1'-6" UNDER THE BUILDING SLAB.

2228 FILL THE EXCAVATED AREA UNDER THE SLAB WITH SELECT MATERIAL PLACED IN 8 INCH LIFTS, AND COMPACT TO 95% STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT.

2229 SELECT FILL MATERIAL SHALL BE A SANDY CLAY SOIL HAVING A PLASTICITY INDEX BETWEEN 6 AND 12.

DRILLED PIERS

2301 DESIGN OF DRILLED PIERS IS BASED ON THE SOIL REPORT BY MAXIM ENGINEERS INC. (NO. A-1-0245) DATED 9-25-81, UTILIZING THE FOLLOWING CRITERIA:

END BEARING 4800 PSF

SIDE FRICTION 500 PSF

2302 PIER REINFORCING SHALL BE DELIVERED TO THE SITE IN STOCK LENGTHS TO BE CUT AFTER DETERMINATION OF ACTUAL SHAFT LENGTHS. VERTICAL REINFORCING MAY BE SPLICED PROVIDED THAT NO MORE THAN 1/2 OF THE BARS ARE SPLICED WITHIN A 5 FOOT LENGTH AND A MINIMUM BAR LAP OF 40 DIAMETERS IS PROVIDED. LAPPED BARS SHALL BE TIED TOGETHER.

2303 TEMPLATES SHALL BE USED FOR PLACEMENT OF ANCHOR BOLTS AND OR DOWELS TO CONCRETE COLUMNS, BEAMS, OR WALLS.

2304 THE BEARING STRATA INDICATED ON THE "PIER DETAIL" IS GRAY LIMESTONE

2305 PIERS SHALL BE CONCRETED WITHIN 8 HOURS OF DRILLING.

2306 PIER HOLES SHALL BE LOCATED WITHIN 2" OF REQUIRED CENTERLINES AND SHALL BE PLUMB WITHIN 1 INCH IN 10 FEET.

CONCRETE REINFORCING

3301 HOOKS AND BENDS SHALL CONFORM TO ACI 318-77 STANDARDS FOR MINIMUM BEND RADIUS AND EXTENSIONS. LENGTHS GIVEN FOR BENT BARS DO NOT INCLUDE THE RADIUS AND MINIMUM EXTENSION FOR STANDARD HOOKS.

3302 OFFSETS IN REINFORCING BARS SHALL BE BENT AT A RATIO OF 1 (NORMAL TO BAR AXIS) TO 6 (PARALLEL TO BAR AXIS).

3303 BARS SHALL BE LAPPED 24 BAR DIAMETERS AT SPLICES UNLESS DETAILED OTHERWISE.

3304 PROVIDE CORNER BARS AT ALL INTERSECTIONS OF BEAMS AND WALLS PER "TYPICAL DETAILS".

3305 WELDED WIRE REINFORCING SHALL BE LAPPED 1'-0" AT SPLICES.

3306 SPLICE CONTINUOUS TOP BARS ONLY AT MIDSPAN BETWEEN SUPPORTS UNLESS NOTED OTHERWISE. PROVIDE 90° HOOKS AT DISCONTINUOUS ENDS OF BEAMS. TOP BARS IN CANTILEVERED BEAMS SHALL NOT BE SPLICED IN THE FIRST INTERIOR SPAN.

3307 SPLICE CONTINUOUS BOTTOM BARS ONLY AT SUPPORTS UNLESS NOTED OTHERWISE.

3308 START STIRRUP SPACING IN BEAMS 2" OUTSIDE THE FACE OF THE SUPPORTS.

3309 PLACE THE FIRST BAR OF SLAB REINFORCING PARALLEL TO A SIDE 2" FROM A FREE EDGE OR 1/2 OF THE REQUIRED BAR SPACING FROM THE FACE OF AN EDGE BEAM.

3310 PLACE THE FIRST BAR OF SLAB REINFORCING PARALLEL TO A SIDE 2" FROM A FREE EDGE OR 1/2 OF THE REQUIRED BAR SPACING FROM THE FACE OF AN EDGE BEAM.

3311 RUN VERTICAL BARS IN WALLS, PILASTERS AND COLUMNS CONTINUOUS BETWEEN FLOORS AND SPLICE BARS IMMEDIATELY ABOVE THE FLOOR LEVEL, UNLESS DETAILED OTHERWISE.

3312 PROVIDE DOWELS FROM GRADE BEAMS OR FOUNDATION EQUAL IN SIZE AND SPACING AS VERTICAL BARS IN WALLS OR PILASTERS AND EXTENDING 26 BAR DIAMETERS ABOVE AND BELOW THE JOINT LINE.

3313 ALL REINFORCING BARS NOT OTHERWISE DETAILED OR NOTED ON THE DRAWINGS SHALL BE CONTINUOUS WITH SPLICES AS NOTED HEREIN.

3314 UNLESS DETAILED OTHERWISE, CLEARANCE FROM FACE OF CONCRETE TO REINFORCING BARS SHALL BE AS FOLLOWS:

PIERS (TO TIES) - 3"

GRADE BEAMS (TO STIRRUPS)

TOP - 1 1/2"

SIDES - 2"

BOTTOM - 3"

SLAB ON GRADE - 2" FROM TOP

COLUMNS AND WALLS (TO TIES)

INTERIOR - 1 1/2"

EXTERIOR EXPOSURE - 2"

SLABS - 3/4"

SUSPENDED BEAMS (TO STIRRUPS)

INTERIOR - 1 1/2"

EXTERIOR EXPOSURE - 2"

3315 SINGLE LAYER REINFORCING IN WALLS SHALL BE PLACED AT THE CENTER OF THE WALL UNLESS NOTED OTHERWISE.

3316 WELDED WIRE REINFORCING IN SLABS ON CONCRETE JOISTS, TOPPINGS OR SLABS POURED ON METAL DECK SHALL BE PLACED AT THE CENTER OF THE SLAB, UNLESS NOTED OTHERWISE.

3317 BARS OF SPECIFIED LENGTH SHALL BE CENTERED ON OR BETWEEN SUPPORTS UNLESS SHOWN OR NOTED OTHERWISE.

3318 REINFORCING BARS SHALL CONFORM TO ASTM A615.
- #3 BARS SHALL BE GRADE 40. ALL OTHER BARS SHALL BE GRADE 60. U.N.O.

3319 REINFORCING BARS SHALL BE SECURELY TIED IN PLACE AND SUPPORTED ON HIGH CHAIRS OR BOLSTERS IN ACCORDANCE WITH THE SPECIFICATIONS OF THE CONCRETE REINFORCING STEEL INSTITUTE.

3320 TOLERANCES OF BAR PLACEMENT SHALL BE AS SPECIFIED BY THE AMERICAN CONCRETE INSTITUTE (ACI 318-77).

CAST IN PLACE CONCRETE

3301 ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE CODE (ACI 318-77).

ADMIXTURES OTHER THAN THOSE LISTED (FOR SET RETARDATION, ACCELERATION OR WORKABILITY) SHALL BE SUBMITTED FOR APPROVAL WITH THE MIX DESIGNS.

3303 CONCRETE SHALL BE TRANSIT-MIXED IN ACCORDANCE WITH ASTM C94.

3304 CONCRETE SHALL NOT BE DELIVERED UNLESS MIX DESIGNS ARE APPROVED.

3305 CONCRETE SHALL BE PLACED AND CONSOLIDATED IN ACCORDANCE WITH ACI SPECIFICATIONS.

3306 CONCRETE SURFACES SHALL BE CURED IN ACCORDANCE WITH ACI SPECIFICATIONS.

3307 UNLESS NOTED OTHERWISE, CONCRETE SLAB SURFACES SHALL RECEIVE A SMOOTH, TROWELLED FINISH. SURFACE TOLERANCE SHALL BE 1/4 INCH IN 20 FEET.

3308 HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305.

3309 COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.

Concrete Mix Schedule

	Strength PSI	Conc. Type	Agg. Size	W/C Ratio	Slump In's.	Admix.	Air Ent.	Usage
A	2500	NRC	1 1/2	.7	3-5	---	--	PIERS
B	3000	NRC	1	6 1/2	3-5	POZZ	5-7½	GRADE BEAMS, SLAB-ON-GRADE
C	3000	NRC	1	6½	3-5	——	——	SLAB, WALLS, BEAMS

3311 CALCIUM CHLORIDE SHALL NOT BE USED AS AN ADMIXTURE.

SLABS ON GRADE

3501

LOCATION	THICKNESS	REINF.
Bldg Slabs	5"	6x6-W2.9 WWM
Apparatus Room	6"	#3 @ 12 EACH WAY

3502 REINFORCEMENT SHALL BE PLACED 2 INCHES FROM THE TOP OF THE SLAB, UNLESS DETAILED OTHERWISE.

3503 PROVIDE CONSTRUCTION JOINTS IN SLABS WHERE INDICATED ON THE PLANS. ALLOW A MINIMUM OF 4 DAYS INTERVAL BETWEEN POURING ADJACENT SECTIONS OF THE SLAB.

3504 PROVIDE A POLYETHYLENE VAPOR BARRIER UNDER THE BUILDING SLAB LAPPED 6 INCHES AND TAPED AT JOINTS AND EXTENDING UNDER THE GRADE BEAMS AND RETURNING 1 FOOT ON THE OUTSIDE FACE.

3505 PROVIDE SAWED JOINTS 1 1/2" DEEP WHERE SHOWN ON PLANS EXCEPT WHERE CONSTRUCTION OF EXPANSION JOINTS OCCUR. JOINTS SHALL BE SAWN WITHIN 1 DAY OF POURING CONCRETE.

CONCRETE MISCELLANEOUS

3701 REINFORCE MISCELLANEOUS CONCRETE CURBS AND WALLS NOT OTHERWISE DETAILED WITH #4 BARS AT 12" ON CENTER EACH WAY.

STRUCTURAL MASONRY

4001 STRUCTURAL PROPERTIES: ASSUMED PRISM F'M = 1350 PSI SEE SPECIFICATIONS FOR COLORS, TEXTURE, TESTING AND SPECIAL REQUIREMENTS.

CONCRETE MASONRY UNITS: LIGHTWEIGHT CONCRETE BLOCK ASTM C90 WITH A MINIMUM COMPRESSIVE STRENGTH ON THE NET AREA OF 2000 PSI.

BRICK: GRADE SW WITH A MINIMUM COMPRSSIVE STRENGTH OF 3000 PSI.

MORTAR: ASTM C270 TYPE S WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI.

COARSE GROUT: ASTM C476, 3/8" AGGREGATE WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.

REINFORCING: ASTM A615 GRADE 60.

Z TIES: ASTM A82, 3/16" DIAMETER WIRE, GALVANIZED.

4002 HORIZONTAL JOINT REINFORCING SHALL BE TRUSS TYPE 9 GA. WELDED TRUSS WITH HORIZONTAL WIRES SPACED AT 8" ON CENTER VERTICALLY. PROVIDE SPECIAL "L" AND "T" SHAPED SECTIONS AT WALL INTERSECTIONS. LAP HORIZONAL WIRES AT LEAST 12" AT SPLICES.

4003 PROVIDE CORNER BARS AT INTERSECTIONS OF REINFORCED TROUGH TILES EQUAL IN SIZE AND NUMBER TO THE HORIZONTAL REINFORCING LAPPED 30 BAR DIAMETERS EACH WAY.

4004 HORIZONTAL REINFORCING IN TROUGH TILES SHALL BE LAPPED 30 BAR DIAMETERS AT SPLICES. STAGGER SPLICES IN ADJACENT BARS AT LEAST 4'-0".

4005 TYPICAL WALL REINFORCING FOR LOAD BEARING CMU WALLS SHALL BE #4 BARS VERTICAL SPACED AT 48 INCHES ON CENTER IN GROUT FILLED CELLS. THE FIRST CELL AT CORNERS, ENDS OF WALLS AND EACH SIDE OF OPNGS. SHALL BE GROUTED AND REINFORCED WITH 1 #6 VERTICAL.

4006 VERTICAL REINFORCING IN GROUTED CELLS OR PILASTERS SHALL BE LAPED 30 BAR DIAMETERS AND WIRE TIED AT SPLICES. VERTICAL BARS MAY BE PLACED IN 6' TO 8' LENGTHS TO FACILITATE LAYING MASONRY UNITS PROVIDED THAT NO SPLICES OCCUR WITHIN 1/8TH OF THE WALL HEIGHT ABOVE OR BELOW MID-HEIGHT.

4007 VERTICAL BARS AND DOWELS SHALL NOT BE OFFSET MORE THAN 1:6 VERTICALLY FOR ALIGNMENT.

4008 PROVIDE Z-TIES AT 16" ON CENTER EACH WAY IN JOINTS OF BRICK SURFACES TO BE BACKED WITH CONCRETE OR GROUT.

4009 REFER TO ARCHITECTURAL LAYOUT AND DRAWINGS AND SPECIFICATIONS FOR ALL DETAILS AND EXACT DIMENSIONS OF BRICK MASONRY WORK INCLUDING RUSTICATIONS, CORBELS, COURSING, REGLETS, WEEP HOLES, WATERPROOFING AND FLASHING.

4010 REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LAYOUT AND DIMENSIONS OF BRICK MASONRY WORK.

STRUCTURAL STEEL

5101 FABRICATION, ERECTION AND CONNECTIONS OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STEEL BUILDINGS".

5102 STEEL FRAMEWORK IS NOT DESIGNED TO BE LATERALLY STABLE UNTIL FLOOR AND/OR ROOF DECKS ARE INSTALLED. TEMPORARY BRACING MUST BE PROVIDED FOR ALL CONSTRUCTION LOADS AND MAINTAINED IN PLACE UNTIL COMPLETION OF THE STRUCTURE.

5103 UNLESS OTHERWISE NOTED, ALL ANGLES, PLATES, RODS AND MISCELLANEOUS FRAMING ARE TO BE WELDED AT CONTACT JOINTS AND SUPPORTS BY FILLET WELDS SUFFICIENT TO DEVELOP 50% OF THE AREA OF THE SMALLER MEMBER IN TENSION. IN GENERAL, WELD LENGTHS SHOULD BE EQUAL TO THE SUM OF THE LEGS OF THE ANGLE OR WIDTH OF THE PLATE BEING CONNECTED IF THE WELD SIZE IS 1/16" LESS THAN THE MATERIAL THICKNESS.

5104 WHERE WELD SIZES ARE NOT INDICATED ON WELD SYMBOLS THE WELD SIZE SHALL BE 3/16" FOR MATERIAL 1/4" & THICKER, OR 1/8" FOR MATERIAL LESS THAN 1/4" THICK.

5105 CONNECTION SHEARS ARE INDICATED THUS (V=100K) ON THE DRAWINGS. WHERE SHEARS ARE NOT GIVEN, BEAM END CONNECTIONS SHALL DEVELOP 55% OF THE TOTAL UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE BEAM AS GIVEN IN PART 2 OF THE AISC MANUAL.

5106 FRAMED CONNECTIONS NOT OTHERWISE DETAILED ARE GENERALLY INTENDED TO BE SHOP WELDED AND FIELD BOLTED.

5107 EDGE ANGLES AROUND PERIMETERS OF FLOORS, ROOFS AND OPENINGS SHALL BE CONTINUOUS. SPLICES SHALL OCCUR ONLY OVER SUPPORTS. EDGE ANGLES SHALL BE WELDED TO EACH SUPPORTING MEMBER BY 3/16" X 2" FILLET WELDS AT 24" O.C. ROOF EDGE ANGLES SHALL BE BUTT-WELDED AT SPLICES TO DEVELOP THEIR FULL STRENGTH IN TENSION.

5108 FULL PENETRATION WELDS (INDICATED BY "FP" ON WELD SYMBOLS) SHALL BE MADE WITH PROPER JOINT PREPARATION, ROOT OPENINGS AND BACKING BARS TO OBTAIN FULL TENSILE STRENGTH OF THE MATERIAL BEING CONNECTED.

5109 MATERIALS:

STEEL SHAPES, PLATES & ANGLES	- ASTM A36
PIPE COLUMNS	- ASTM A36
COMMON BOLTS & ANCHOR BOLTS	- ASTM A307
WELDING ELECTRODES	- E70XX
PAINT (PRIMER)	- TNEMEC 88

JOISTS AND JOIST GIRDERS

5201 JOISTS SHALL HAVE DOUBLE ANGLE BOTTOM CHORDS.

5202 EXTEND BOTH BOTTOM CHORD ANGLES OF JOIST GIRDERS AND/OR JOISTS ON COLUMN CENTERLINES FOR CONNECTION TO COLUMNS AS DETAILED. DO NOT WELD BOTTOM CHORDS UNTIL DEAD LOAD OF STRUCTURE IS IN PLACE.

5203 PROVIDE ERECTION BOLTS FOR JOIST GIRDERS AND/OR JOISTS AT COLUMN CENTERLINES FOR TEMPORARY FRAME STABILITY.

5204 WELD JOISTS AND/OR JOIST GIRDERS TO SUPPORTING STEEL PER MINIMUM SJI REQUIREMENTS UNLESS DETAILED OTHERWISE.

5205 JOIST MANUFACTURER SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE.

5206 PROVIDE TOP CHORD EXTENSIONS AND SPECIAL JOIST SEATS AS REQUIRED BY DRAWINGS.

5207 UNLESS NOTED OTHERWISE, TYPICAL JOIST SEAT DEPTH IS 2 1/2" FOR H SERIES, 5" FOR LH SERIES AND 6" FOR G SERIES.

METAL ROOF DECK

5301 METAL ROOF DECK SHALL BE AS FOLLOWS:

LOCATION	TYPE-RIB	DEPTH	GAGE	FINISH
ALL	F- INTERM	1 1/2"	22	PAINTED

5302 SUBSTITUTIONS OF DECK STYLE AND TYPE SHALL NOT BE MADE WITHOUT APPROVAL OF THE ENGINEER.

5303 DECK SHALL BE CONTINUOUS OVER 3 SPANS, MINIMUM.

5304 CONNECTIONS OF DECK TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS:

WELDS AT SUPPORTS 12" O.C.	WELDS AT PERIMETER 6" O.C.	SIDE LAP CONN. 3'-0"

SIDE LAP CONNECTIONS SHALL BE #12 HEX HEAD SCREWS. WELDS AT SUPPORTS AND PERIMETER SHALL BE 5/8" DIA. PULL FUSION PUDDLE WELDS, WELDED THRU WELD WASHERS, WITHOUT BLOW-HOLES.

ABBREVIATIONS & LEGENDS

GENERAL ABBREVIATIONS

AFF	- ABOVE FINISH FLOOR	MFR	- MANUFACTURER
AGG	- AGGREGATE	MIN	- MINIMUM
ARCH	- ARCHITECT	MK	- MARK
BLDG	- BUILDING	MOM	- MOMENT
BLK	- BLOCK	NIC	- NOT IN CONTRACT
BM	- BEAM	NO	- NUMBER
BOT	- BOTTOM	NSG	- NON SHRINK GROUT
C	- COMPRESSION	NTS	- NOT TO SCALE
CJ	- CONSTRUCTION JOINT	OC	- ON CENTER
CMU	- CONCRETE MASONRY UNIT	OP HD	- OPPOSITE HAND
COL	- COLUMN	P/C	- PRECAST CONCRETE
CONC	- CONCRETE	PENET	- PENETRATION
CONTR	- CONTRACTOR	PSF	- POUNDS PER SQUARE FOOT
DET	- DETAIL	PSI	- POUNDS PER SQUARE INCH
DIAM	- DIAMETER	REINF	- REINFORCING
DIM	- DIMENSION	SCHED	- SCHEDULE
EJ	- EXPANSION JOINT	SECT	- SECTION
EL	- ELEVATION	SHT	- SHEET
ENGR	- ENGINEER	STD	- STANDARD
EP	- EMBEDDED PLATE	STL	- STEEL
EXIST	- EXISTING	T	- TENSION
EXT	- EXTERIOR	TOC	- TOP OF CONCRETE
FABR	- FABRICATOR	TOF	- TOP OF FOOTING
FF	- FINISH FLOOR	TOJ	- TOP OF JOIST
FK	- FOOT KIPS	TOP	- TOP OF PIER
HOR	- HORIZONTAL	TOS	- TOP OF STEEL
INT	- INTERIOR	TOW	- TOP OF WALL
JST	- JOIST	TYP	- TYPICAL
K	- KIP (1000 LB)	UNO	- UNLESS NOTED OTHERWISE
LB	- POUND	WD	- WOOD
MATL	- MATERIAL	℄	- CENTERLINE
MAX	- MAXIMUM	⌀	- DIAMETER

CONCRETE REINFORCING

Abbreviations:

AB	- ANCHOR BOLT	H	- HORIZONTAL	T	- TOP BAR
B	- BOTTOM BAR	IF	- INSIDE FACE	T&B	- TOP & BOTTOM
CONT	- CONTINUOUS	NS	- NON-SHRINK	V	- VERTICAL
EF	- EACH FACE	REM	- REMAINDER (OR R)		
EW	- EACH WAY	ST	- STIRRUP		

Bent Bars: (UNSCHEDULED)

#4 (0-6/2-0) @ 18 = DOWEL
- SPACING IN INCHES
- LENGTH EACH SIDE OF BEND (FEET & INCHES)
- BAR SIZE

Straight Bars: (UNSCHEDULED)

#4 @ 12 B = STRAIGHT BAR. CONTINUOUS OR LENGTH GIVEN
- LOCATION
- SPACING IN INCHES
- BAR SIZE

⚠ ADDENDUM NUMBER 1 JULY 16, 1982

STATE OF TEXAS — LAWRENCE A. FUESS 65577 — REGISTERED PROFESSIONAL ENGINEER

L. A. Fuess & Co. Incorporated
structural engineers
3603 Lemmon Ave, Suite 100
Dallas, Texas 75219
214-522-[illegible]
LF No. [illegible]

DAVID A. DILLARD AIA
ARCHITECTURE
4310 Westside Drive • Suite E
Dallas Texas 75209 • (214) 528-2842

CITY OF ADDISON
FIRE DEPARTMENT

CENTRAL OFFICES & FIRE STATION NO 1

AIRPORT PARKWAY & ADDISON ROAD, ADDISON, TX.

GENERAL NOTES

PROJECT NO 82.06 SHEET NO S1

DATE 6.25.82