

GENERAL STRUCTURAL NOTES

A-FOUNDATIONS

SOIL CLASSIFICATION - SILTY CLAY-MAX. DESIGN SOIL PRESSURE 1500 P.S.F. ON CONTINUOUS FOOTING AT DEPTH SHOWN.
PROVIDE COMPACTED GRAVEL FILL (MIN. 6" THICK) UNDER FLOOR SLABS AND WHERE NECESSARY FOR BACKFILLING EXCAVATIONS, ETC. UNDER SLABS. TYPE I GRAVEL. 95% OF MAXIMUM DENSITY.

B-CONCRETE

ALL CONCRETE TO HAVE ULTIMATE COMPRESSIVE STRENGTH OF 3000 P.S.I. AT 28 DAY TEST MIN., EXCEPT FILL CONCRETE TO BE 750 P.S.I. - SEE SHEET 4.
ALL EXTERIOR CONCRETE SLABS ARE TO BE REINFORCED WITH 6"x6"-#10-10 WIRE MESH OR WITH #3 BARS @ 2'-0" O.C. EACH WAY - OPTION OF CONTRACTOR UNLESS SPECIFIED OTHERWISE. INTERIOR CONC. SLABS REINFORCED AS SHOWN ON DWGS.
ALL EXTERIOR AND INTERIOR CONCRETE SLABS, BEAMS, COLUMNS, ETC. ABOVE GRADE SHALL BE IN ACCORDANCE WITH SPECIAL DETAILS AS SHOWN ON DRAWINGS.
REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS AND CO-ORDINATE ALL REQUIREMENTS FOR ANCHORS, INSERTS, BOLTS ETC. BEFORE POURING ANY CONCRETE.
ALL JUNCTURES OF CONCRETE WITH WALLS SHALL HAVE AN EXPANSION JOINT.

C-REINFORCING STEEL

ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE, HIGH BOND DEFORMED BARS CONFORMING TO A.S.T.M. A 615 GRADE 40
REINFORCING MARKED CONTINUOUS MAY BE SPLICED WITH LAP OF 30 BAR DIAM. FOR UNIT MASONRY & 25 DIAM. FOR CONCRETE.
REFER TO ALL DRAWINGS & DETAILS FOR MASONRY REINFORCING IN WALLS, BOND BEAMS, LINTELS ETC. OPENINGS, CORNER & WALL CONNECTIONS & FOOTING STEPS.
ADEQUATE SUPPORTS SHALL BE PROVIDED TO SUPPORT ALL REINFORCING STEEL IN PLACE.
REINFORCING STEEL SHALL HAVE THE FOLLOWING MINIMUM COVER:-
CONCRETE POURED AGAINST EARTH - 3" OTHER WALL FACES - 3/4"
FORMED CONC. IN CONTACT W/EARTH - 2" CONC. COLS. & BMS. - 1-1/2"
EXTERIOR FACE OF EXTERIOR WALLS - 1-1/2" TOP OR BOTTOM OF SLABS - 3/4"
PLACE DOWELS IN FOUNDATIONS AT ALL VERTICAL BARS AT SAME SPACING & SAME SIZE AS VERTICAL BARS.

D-HOLLOW UNIT MASONRY

ALL MASONRY SHALL CONFORM TO CHAPTER 24 U.B.C.
ALL HOLLOW UNIT MASONRY SHALL CONFORM TO A.S.T.M. C-90, GRADE A UNITS.
MORTAR SHALL BE AS SPECIFIED FOR TYPE S IN TABLE 24 A U.B.C.
GROUT SHALL BE COMPOSED BY VOLUME - 1 PART CEMENT, 2 PARTS SAND, 1 PART GRAVEL LIME.
PUTTY MAY BE ADDED NOT TO EXCEED 1/10 PART. GROUT TO BE FLUID CONSISTENCY AND SHALL HAVE ULTIMATE COMPRESSIVE STRENGTH OF 2000 P.S.I. AT 28 DAY TEST.
ALL REINFORCED HOLLOW UNIT MASONRY SHALL CONFORM TO SECTION 2415 U.B.C.
ALL CELLS CONTAINING REINFORCEMENT, BOLTS, ANCHORS, INSERTS ETC. SHALL BE FILLED SOLID WITH GROUT. VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT TOP & BOTTOM AND AT INTERVALS NOT TO EXCEED 192 DIAMETERS. PLACE SO THAT REQUIRED GROUT IS ON ALL SIDES OF BARS. IF POUR OF GROUT IS OVER 4'-0" HIGH, PROVIDE CLEANOUT OPENINGS OF CELLS TO BE POURED.
NO POUR OVER 8'-0" HIGH. SEE SECTION 2415 U.B.C.
WALLS MUST BE CAREFULLY BRACED AT ALL TIMES, ESPECIALLY BEFORE GROUT & REINF. IS SET.
PLACE DURO-WALL REINFORCING IN HORIZONTAL COURSES AS SHOWN ON DRAWINGS, EXCEPT AT SOLID GROUT & WHERE OTHERWISE REINFORCED HORIZONTALLY.

E-LUMBER

ALL LUMBER SHALL BE DOUGLAS FIR CONSTRUCTION GRADE, EXCEPT PARTITION SILL TO BE PRESSURE TREATED DOUGLAS FIR OR REDWOOD.
ALL BOLTS BEARING ON WOOD SHALL HAVE WASHERS ON HEAD & NUT.
ALL SILLS ON MASONRY OR CONC. SHALL BE CONSTRUCTION GRADE REDWOOD OR TREATED D. FIR.
CROSS BRIDGING SHALL BE INSTALLED BETWEEN FLR. & CLG. JOISTS & RAFTERS AT INTERVALS NOT OVER 8'-0" APART, NOT TO BE FINALLY NAILED UNTIL SHTG. IS IN PLACE. TYPE OF BRIDGING TO BE AS SHOWN & DETAILED ON DRAWINGS.
WHERE PLYWOOD SHEATHING IS CALLED FOR, JOINTS ARE TO BE STAGGERED AND NAILING IS TO BE INSTALLED AS SHOWN IN SCHEDULE.
ALL WOOD PLATES ON MASONRY SHALL BE BEDDED ON 3/8" MIN. MORTAR.

F-NAILING SCHEDULE (MIN.) ALL OTHER NAILING TO CONFORM TO TABLE 25-N U.B.C.

JOIST TO SILL OR GIRDER	TOE NAIL	2 - 16d
BRIDGING TO JOIST	DO	2 - 8d
SUB-FLOOR TO JOIST (1"x6" BOARDS)	FACE NAIL	2 - 8d
PLATE TO JOIST OR BLOCKING		16d @ 16" O.C.
STUD TO PLATE (TOP)	END NAIL	2 - 16d
STUD TO PLATE (BOTTOM)	TOE NAIL	3 - 16d or 4-8d
TOP PLATES	SPIKE TOGETHER	16d @ 24" O.C.
TOP PLATE LAPS & INTERSECTION		2 - 16d
RAFTER TO PLATE		3 - 16d
PLYWOOD SHEATHING	8d @ 6" O.C. EDGES - 8d @ 12" O.C. INTERIOR	

SPECIFICATIONS

ALL WORK TO BE DONE IN ACCORDANCE WITH THE STANDARD U.B.C. AND THE LATEST CITY OF LAS VEGAS ORDINANCES. FOLLOW THE GENERAL STRUCTURAL NOTES ON THIS SHEET.

- A- FOUNDATIONS
- B- CONCRETE
- C- RE-INFORCING STEEL
- D- HOLLOW UNIT MASONRY
- E- LUMBER
- F- NAILING SCHEDULE AND ANY AND ALL NOTES ON THE OTHER DRAWINGS.

METAL DOORS & FRAMES
(2) DOUBLE DOORS FOR 8'-0" X 7'-0" OPENING - 1-3/4" HOLLOW MTL. STEEL DOORS WITH (2) LOUVERS 1'-0" X 1'-0". SEE ELEVATION, FLUSH DOOR.
(1) ENTRANCE DOOR 3'-0" X 6'-8" X 1-3/4", H.M. STEEL, FLUSH DOOR.
THE CONTRACTOR SHALL VISIT THE EXISTING BUILDING BEFORE BIDDING THE JOB TO FAMILIARIZE HIMSELF WITH THE EXISTING ENTRANCE. THIS NEW ENTRANCE MUST BE SIMILAR IN EVERY ITEM, EXCEPT THE ENTRANCE DOOR.

SHEET METAL WORK
DRAIN THE EXISTING ROOF NEXT TO THIS ADDITION ON THE ROOF OF THIS ADDITION BY CUTTING OFF THE EXISTING DOWN SPOUTS 12" ABOVE THE NEW ROOF. (SEE SHT. # 3)
MAKE SCUPPERS WATER TIGHT. ADD 90° BEND TO EXISTING DOWNSPOUTS ON STORAGE ADDITION ROOF.

AIR COOLER
INSTALL ON ROOF WITH 6" CURB ARCTIC CIRCLE 4000 B OR EQUAL ACCORDING TO DETAIL (SHT. # 3) INSTALL 1/2" COPPER PIPE TO COOLER ON ROOF WITH VALVE ON WALL WHERE SHOWN, WITH DRAIN COCK 18" ABOVE FLOOR.

INSULATION
INSTALL 6" FIBER GLASS BATTS BETWEEN ROOF JOISTS.

EXISTING ASPHALT
SAW CUT ASPHALT ON EAST AND WEST SIDE OF EXIST. BLDG. BREAK OUT REMAINING PORTION A.C. TO 10' BEYOND LIMITS OF NEW STORAGE ADDITION.

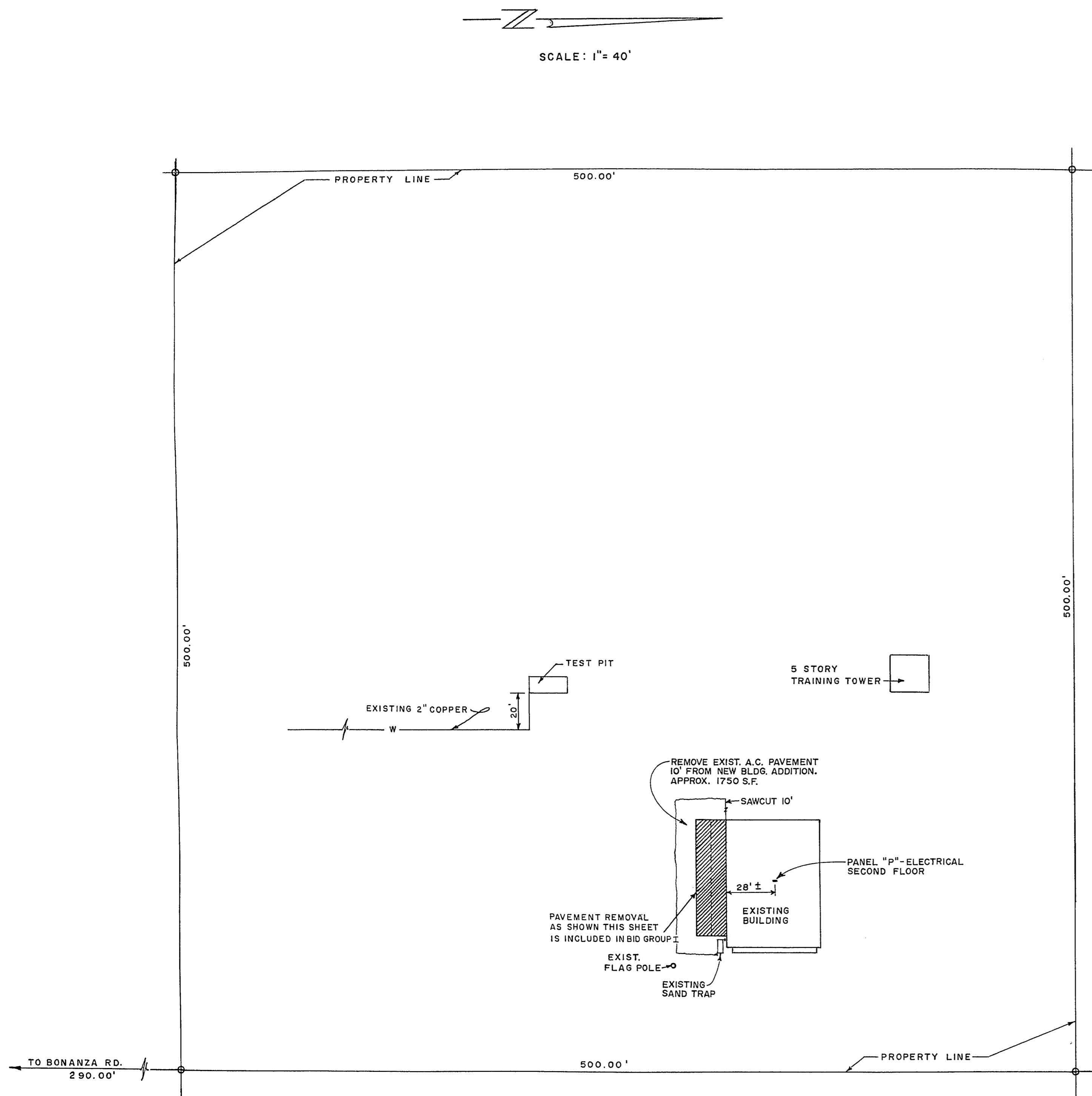
ROOFING & SHEET METAL
WORK INCLUDED. FURNISH ALL LABOR AND MATERIALS TO COMPLETE ROOFING AND SHEET METAL WORK INDICATED. BUILT-UP ROOFING, INCLUDING CANTS ETC., 20GA. G.I. FLASHING & COUNTER FLASHING & REGLETS.

BONDED ROOFING
UPON THE FINAL ACCEPTANCE OF THE WORK, THE GENERAL CONTRACTOR SHALL DELIVER TO THE OWNER A GUARANTEE OF 20 YEARS AGAINST LEAKS AND DEFECTS IN BUILT-UP ROOFING, INCLUDING FLASHINGS & COUNTER FLASHINGS IN CONNECTIONS THERE WITH, SAME BEING IN THE FORM OF AN APPROVED SURETY COMPANY BOND COVERING BOTH BUILT-UP ROOFING, FLASHINGS & COUNTER FLASHING FOR A PERIOD OF 20 YEARS FROM DATE OF FINAL ACCEPTANCE.

WEATHER STRIPPING AND THRESHOLDS
ALL DOORS SHALL BE WEATHER STRIPPED AND HAVE 4-1/2" ALUMINUM THRESHOLDS.
PAIR OF DOORS TO HAVE ASTRAGALS; FLOOR BUMPER FOR THE FRONT DOOR.
SEE SPECIFICATIONS FOR DOOR LOCKSETS AND KEY SCHEDULE.

PAINTING
NO PAINTING ON THE INTERIOR OF THE TRAINING STORAGE ROOM AND THE ALARM & HYDRANT ROOM STORAGE EXCEPT THE CEILING AND DRYWALL PARTITION.

AIR COOLER
DUCT FROM AIR COOLER TO BE INSULATED & WATERPROOFED WITH EQUIVALENT TO 2" FIBER-GLASS INSTALLATION.
FINAL CLEAN UP
BROOM CLEAN ALL FLOORS.
CLEAN ALL GLASS AND MAKE THE PLACE READY FOR OCCUPANCY.



MOJAVE ROAD
PLOT PLAN
SCALE: 1" = 40'

CONTRACT DRAWING
SEP 4 1970

CONTRACT DRAWING
MAY 11 1970

DATE	APPROVED	DATE
3	D.P.W.	5/5/70
2	SERV.	
7	FIELD	5-5-70
	R/W	
	TRAF.	
	UTIL.	
	SURD.	
	SAB.	
	ENGR.	

I CERTIFY THAT THIS PLAN WAS PREPARED UNDER MY SUPERVISION.
R. Whitney
ROBERT T. WHITNEY
R.P.E. 1095
DATE 3-18-70

APPROVALS
J.D. Miller
CHIEF J.D. MILLER - FIRE DEPT.
DATE 4-30-70
H.T. Miller
CITY BUILDING DEPT. 4-27-70
DATE

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CITY OF LAS VEGAS NEVADA
DEPARTMENT OF PUBLIC WORKS
SERVICES DIVISION

STORAGE BLDG. ADDITION TO LAS VEGAS FIRE TRAINING CENTER

W.O. NO. 3027	F.BK. NO.	DATE	DRAWING NO.
SC. (H) 1" = 40'	SC. (V)		
DES. H. H. WHITELEY - A. I. A.			
DR. L. HARPER - ELLISON	1-27-70	FILE NO.	
APPROVED BY DIRECTOR OF PUBLIC WORKS			
			513-26-E
			SHEET 2 OF 9