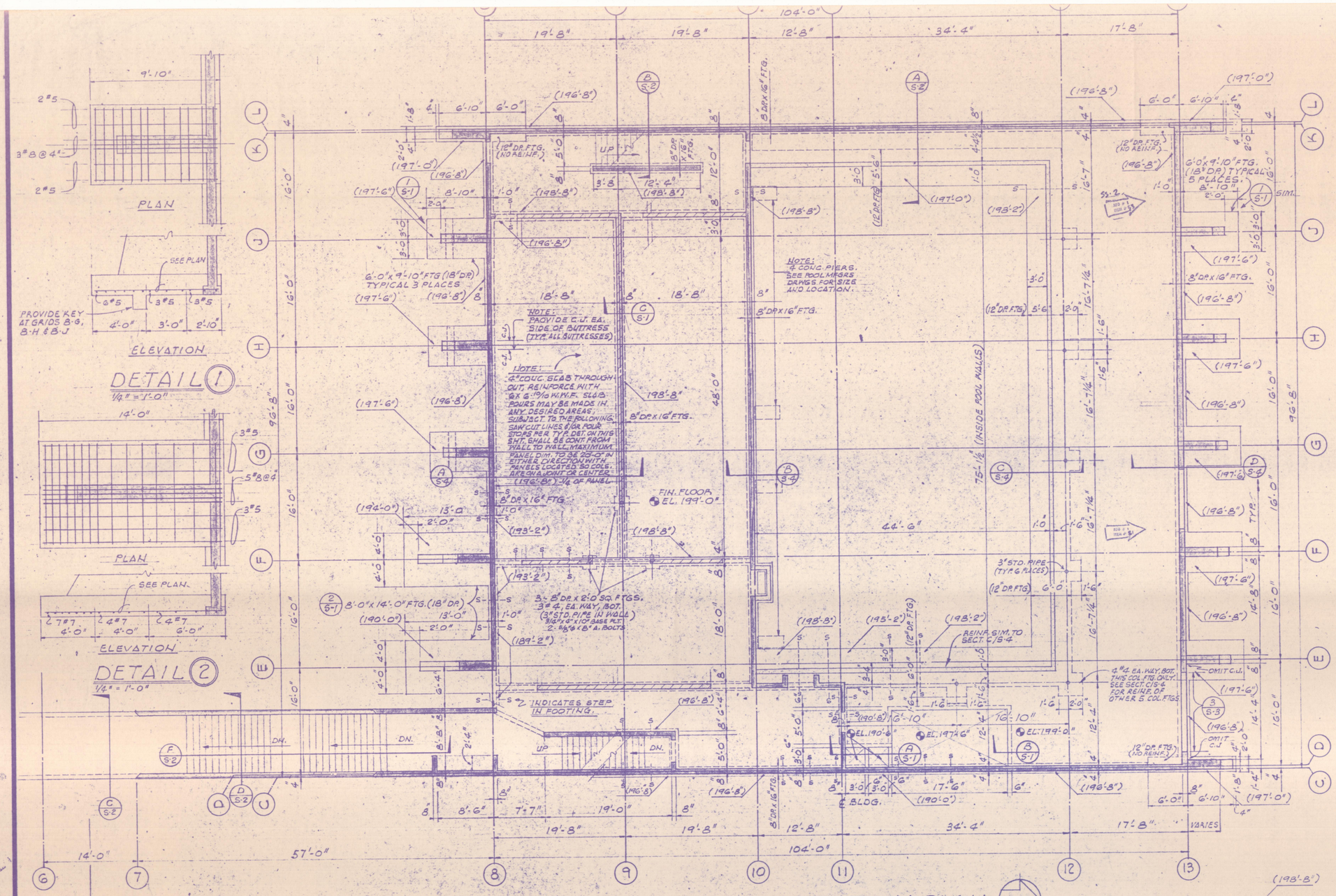

GENERAL

REFER TO THE WRITTEN SPECIFICATIONS FOR FURTHER REQUIREMENTS AND AMPLIFICATIONS OF THESE NOTES. THE CONTRACTOR SHALL CHECK THESE PLANS WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS, VERIFY CONDITIONS AT THE JOBSITE, AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK. THIS BUILDING IS DESIGNED IN GENERAL ACCORDANCE WITH THE PROVISIONS OF THE UNIFORM BUILDING CODE (UBC), 1967 EDITION.

LIVE LOADS ARE TAKEN AS FOLLOWS:
ROOF = 35 PSF
FLOOR = 75 PSF
STAIRS AND CORRIDORS = 100 PSF
CATWALKS = 50 PSF

LATERAL LOADS:
SEISMIC ZONE II
WIND ZONE PER UBC = 20 PSF

THIS BUILDING AND ALL PARTS THEREOF, IS DESIGNED TO RESIST THE ACTIONS OF THE OF THE ABOVE LOADS AS A COMPLETED WHOLE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO TEMPORARILY SUPPORT ANY OR ALL OF THE WORK UNTIL THE ENTIRE STRUCTURE IS COMPLETE.

FOOTINGS

FOOTINGS ARE GENERALLY PROPORTIONED FOR SOIL BEARING PRESSURES UNDER TOTAL LOAD NOT TO EXCEED 4000 PSF. ELEVATIONS INDICATED ⊔ ON PLAN ARE ASSUMED AND MINIMUM ELEVATIONS AT TOP OF FOOTINGS. TOP OF FOOTINGS SHALL BE VARIED, AS PER STEP FOOTING DETAIL, AS NECESSARY DUE TO SITE CONDITIONS SO BOTTOM OF FOOTINGS WILL BEAR ON ROCK OR ENGINEERED FILL COMPACTED TO 95% OPTIMUM DENSITY. EXTERIOR WALL FOOTINGS SHALL BEAR 2'-6" MINIMUM BELOW FINISHED GRADE OR ON SOLID ROCK. NO FOOTING ON ENGINEERED FILL SHALL BEAR HIGHER THAN ON A 1½ HORIZONTAL TO 1 VERTICAL SLOPE ABOVE ANY EXCAVATION, EXISTING OR PLANNED. FOR ENGINEERED FILL AND REFERENCE SEE SOIL REPORT ENTITLED "SOIL AND FOUNDATION REPORT, PROPOSED SWIMMING POOL AND ACADEMIC ADDITION FOR KETCHIKAN HIGH SCHOOL, KETCHIKAN, ALASKA," PREPARED BY A & M ENGINEERING AND GEOLOGICAL CONSULTANTS DATED OCTOBER 3, 1970.

CONCRETE

ALL CAST IN PLACE CONCRETE SHALL DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.

UNLESS SHOWN OTHERWISE, CONCRETE WALL REINFORCEMENT SHALL BE:

WALL THICKNESS	VERTICAL	HORIZONTAL	LOCATION
6"	#4 @ 12"	#4 @ 12"	CENTER
8"	#4 @ 15"	#5 @ 12"	CENTER

REINFORCING

ALL REINFORCING STEEL SHALL BE A615, GRADE 40 EXCEPT WHERE NOTED ON DRAWINGS. LAP CONTINUOUS REINFORCING IN CONCRETE 30 DIAMETERS FOR HORIZONTAL BARS, 24 DIAMETERS FOR VERTICAL BARS. LAP CONTINUOUS REINFORCING IN MASONRY 36 DIAMETERS FOR HORIZONTAL BARS AND 30 DIAMETERS FOR VERTICAL BARS. MINIMUM LAP SHALL BE 1'-3". CONCRETE REINFORCING UNLESS SHOWN IN CENTER OF MEMBER SHALL HAVE MINIMUM COVER (±¼") AS FOLLOWS:
FOOTINGS 3", WALLS AGAINST EARTH 2", COLUMNS 2"
BEAMS, WALLS AND SURFACES EXPOSED TO WEATHER 1½", STRUCTURAL SLABS ¾".
PROVIDE ADEQUATE SUPPORT AND TIE BARS TO HOLD REINFORCING ACCURATELY AND RIGIDLY IN PLACE.

STRUCTURAL STEEL

STRUCTURAL STEEL SHALL BE A36; PIPE A53 GRADE B; BOLTS A307.

CENTERING SHALL HAVE A MINIMUM END BEARING OF 1½", END LAP 2" AND SIDE LAP OF ONE CORRUGATION. WHERE SUPPORTED ON STEEL, PLUG WELD LAPS AT 24" o.c. THROUGH 16 GAGE WASHERS.

MASONRY

ALL MASONRY WALLS SHOWN CROSS-HATCHED ON STRUCTURAL DRAWINGS SHALL HAVE MINIMUM REINFORCING AS FOLLOWS:
8" C.M.U., 2 #5 @ 48" HORIZONTAL, 1 #4 @ 32" VERTICAL, AND 1 #5 (TRIM BARS). PROVIDE TRIM BARS EACH SIDE OF OPENINGS, ENDS OF WALLS AND BELOW ALL LINTEL BEARINGS, CONTINUOUS HORIZONTAL BARS AT TOP OF ALL WALLS, UNDER ALL ROOF, FLOOR, STAIR AND SIMILAR BEARINGS.
NON-STRUCTURAL MASONRY WALLS SHALL HAVE MINIMUM REINFORCING AS FOLLOWS:
6" & 8" C.M.U., 1 #4 @ 48" HORIZONTAL, 1 #4 @ 48" VERTICAL, AND 1 #4 (TRIM BARS).

TIMBER

ALL FRAMING LUMBER TO BE 1500f, CONSTRUCTION GRADE DOUGLAS FIR OR LARCH. ALL BOLT HOLES SHALL BE OF A DIAMETER PERMITTING BOLTS TO BE DRIVEN EASILY, WITH M.I. WASHERS UNDER ALL HEADS AND NUTS IN CONTACT WITH WOOD. LEAD HOLES FOR LAG SCREWS SHALL BE SAME DIAMETER AS SHANK AND THREADED PORTION OF LEAD HOLES NOT GREATER THAN BASE OF THREAD. WOOD FRAMING ANCHORS, HANGERS AS INDICATED SHALL BE "SIMPSON" OR APPROVED EQUAL AS MANUFACTURED BY SIMPSON COMPANY, SAN LEANDRO, CALIF. GLU-LAMINATED BEAMS SHALL BE MANUFACTURED TO WEST COAST LUMBERMEN ASSOCIATION AND AMERICAN INSTITUTE OF TIMBER CONSTRUCTION STANDARDS, AND SHALL BE DOUGLAS FIR OF STRESS GRADES TO PROVIDE NORMAL DRY WORKING STRESS F_b = 2,200 PSI.

THE THICKNESS AND GRADE OF FIELD INSTALLED PLYWOOD SHEATHING WHERE IT JOINS COMPONENTS SHALL MATCH THE COMPONENT SKIN AND SHALL BE NAILED AS FOLLOWS:
WALLS ~ 8d @ 6" o.c.
ROOF ~ 10d @ 6" o.c.

COMPONENTIZING

BASIC CONSTRUCTION

THE COMPONENT CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:
1) ALL POLES
2) ALL GLUED LAMINATED MEMBERS.
3) ALL WALL AND ROOF PANELS, INCLUDING POLYURETHANE FOAM OR THERMAL INSULATION AS DETAILED, AND GLUED PLYWOOD SKINS.
4) ALL CONNECTING HARDWARE, NOT EMBEDDED IN CONCRETE, INCLUDING, BUT NOT LIMITED TO, BOLTS, LAG SCREWS AND PINS.
5) ALL OTHER CONSTRUCTION AS SPECIFIED.

THE VARIOUS PARTS SHALL BE FABRICATED AND FRAMED TO CLOSE TOLERANCES ~ REQUIRING ONLY MINOR REAMING AND TRIMMING TO OBTAIN TIGHT NEAT JOINTS AS ERECTED.

NON-COMPONENTIZED ALTERNATE # AS-2

UNDER THIS ALTERNATE THE GENERAL CONTRACTOR SHALL BID THE ABOVE MATERIAL AS CONVENTIONAL ON SITE CONSTRUCTION.

S-1

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drawn W.G.G. | checked W.F.S.

project PHASE I SCHOOLS
GATEWAY BOROUGH SCHOOL DISTRICT
KETCHIKAN GATEWAY BOROUGH, ALASKA

scale AS NOTED | date 25 JUNE 1971

drawing HIGH SCHOOL SWIMARENA
STRUCTURAL FOUNDATION PLAN
LOCKER LEVEL & TUNNEL LEVEL
STRUCTURAL NOTES & TYPICAL DETS.

sheet no.