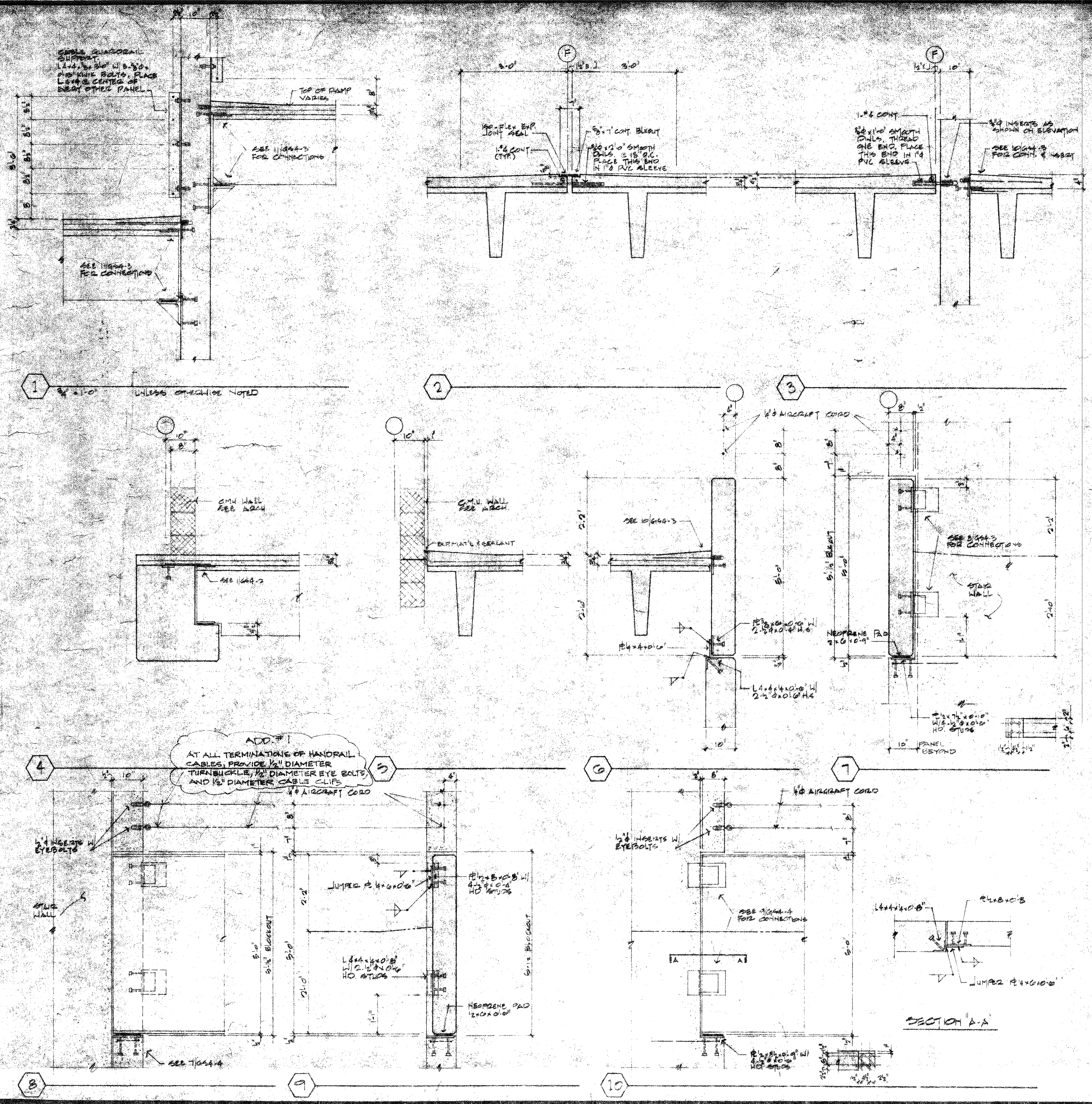


GENERAL NOTES--PARKING GARAGE

- ALL CONCRETE REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, EXCEPT WHERE NOTED. NO. 3 BARS MAY CONFORM TO ASTM A615, GRADE 40. ALL EMBEDDED ANCHORS SHALL CONFORM TO ASTM A615, GRADE 40.
- CONCRETE IN THE FOLLOWING AREAS SHALL HAVE SAND AND GRAVEL AGGREGATE, TYPE V PORTLAND CEMENT, AND THE DESIGNATED COMPRESSIVE STRENGTH (f'c) IN 28 DAYS:
FOUNDATIONS, SLAB ON GRADE & GRADE BEAMS ----- 3000 PSI
WALLS & PLINTHS BELOW GRADE LEVEL ----- 4000 PSI
CONCRETE IN THE FOLLOWING AREAS SHALL HAVE SAND AND GRAVEL AGGREGATE, TYPE I, II, OR III PORTLAND CEMENT, AND THE DESIGNATED COMPRESSIVE STRENGTH (f'c) IN 28 DAYS:
PRECAST TREES, BEAMS AND COLUMNS ----- 5000 PSI
WALLS ABOVE GRADE LEVEL ----- 4000 PSI
- ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- CONCRETE PROTECTION FOR REINFORCEMENT. SEE SEC. 7-7, ACI 318-77 OR U.B.C. (1976) SECTION 2607 (G) FOR CONDITIONS NOT NOTED.
FOOTINGS ----- 3 IN.
GRADE BEAMS ----- 3 IN. BOT., 2 IN. SIDES,
1 1/2 IN. TOP
SLABS ON GRADE ----- 3/4 IN. TOP
ALL PRECAST MEMBERS ----- 1 1/4 IN. MAIN REINF.
1 1/4 IN. STIRRUPS & TIES
- ALL WELDING SHALL CONFORM TO THE STANDARDS OF THE AMERICAN WELDING SOCIETY.
- ELECTRODES FOR ALL FIELD AND SHOP WELDING SHALL CONFORM TO ASTM A233, (CLASS E70).
- ALL STRUCTURAL STEEL ROLLED SHAPES AND PLATES SHALL CONFORM TO ASTM A36.
- NO HORIZONTAL JOINTS WILL BE PERMITTED IN CONCRETE EXCEPT WHERE THEY NORMALLY OCCUR OR WHERE NOTED. FOR Poured IN PLACE CONCRETE, VERTICAL JOINTS SHALL OCCUR AT CENTER OF SPANS OR AT LOCATIONS APPROVED BY THE STRUCTURAL ENGINEER.
- DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI PUBLICATION 315, LATEST EDITION.
- REINFORCING BARS MAY NOT BE WELDED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
- ALL CONTINUOUS REINFORCEMENT SHALL LAP 36 BAR DIAMETERS AT SPLICES. PROVIDE 1-#5 x 4'-0" (TWO 24" LEGS WITH 90 DEGREE BEND) AT EXTERIOR FACE OF GRADE BEAMS AT CORNERS.
- ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE.
- ALL GROUT USED UNDER COLUMN BASE PLATES SHALL BE OF NON-SHRINKABLE TYPE AND SHOULD HAVE MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI.
- PRE-TENSIONED STRANDS FOR PRESTRESSED CONCRETE SHALL BE MADE OF WIRE CONFORMING TO ASTM A416 (270K). THE USE OF HIGH STRENGTH 250K WIRE IS PERMITTED WITH SUBMISSION OF AN ALTERNATE DESIGN FOR APPROVAL.
- ALL NEOPRENE RUBBER BEARING PADS SHALL BE MANUFACTURED FROM 100 PERCENT VIRGIN STOCK AND SHALL HAVE A DUROMETER HARDNESS OF 70 UNLESS NOTED OTHERWISE.
- ALL BEAMS AND TREES SUPPORTED BY HAUNCHES, LUGS OR BRACKETS SHALL BEAR ON 1/2" THICK (MIN.) NEOPRENE PADS UNLESS NOTED OTHERWISE.
- ALL GROUT USED IN CONNECTIONS OF PRECAST CONCRETE COMPONENTS SHALL BE A NON-SHRINKABLE TYPE AND SHOULD HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI. THE SHEAR AND BOND STRENGTH OF THIS GROUT SHOULD BE HIGHER THAN THE PARTLY CONCRETE COMPONENTS. BOTH BOND AND SHEAR CAPACITIES OF GROUT SHOULD BE SUBMITTED FOR THE APPROVAL OF THE STRUCTURAL ENGINEER.
- ANY ADDITIONAL STRUCTURAL COMPONENTS SUCH AS TEMPORARY BEAMS, COLUMNS OR BRACING SYSTEMS REQUIRED FOR THE ERECTION OF THE PRECAST MEMBERS SHALL BE WORKED OUT BY THE CONTRACTOR. THE ERECTION METHOD SHOULD BE SUBMITTED FOR THE APPROVAL OF THE ENGINEER.
- THE PRECAST MANUFACTURER SHALL INVESTIGATE THE HANDLING AND SHIPPING STRESSES OF ALL PRECAST MEMBERS AND SHALL PROVIDE THE NECESSARY REINFORCING WHERE REQUIRED. ALSO THE MANUFACTURER SHALL LOCATE, SIZE, AND DETAIL PICK-UPS AND STIRRUP INSERTS FOR ALL PRECAST MEMBERS. THIS INFORMATION SHALL BE SHOWN ON PRECAST MEMBERS SHOP DRAWINGS. THE MANUFACTURER SHALL SUBMIT DESIGN CALCULATIONS AND SHOP DRAWINGS OF EACH MEMBER FOR APPROVAL PRIOR TO MANUFACTURE OF MEMBERS.
- PRINCIPAL OPENINGS ARE SHOWN ON THE DRAWINGS. SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SLEEVES, CURBS, INSERTS, ETC., NOT SHOWN.
- ALL BASE PLATES AND ANCHOR BOLTS SHALL BE PROTECTED WITH 3" (MIN.) OF GROUT.
- HEADED STUDS SHALL BE NELSON HEADED ANCHORS WITH FLUXED ENDS (OR APPROVED EQUAL). STUDS SHALL BE AUTOMATICALLY END WELDED WITH SUITABLE NELSON STUD WELDING EQUIPMENT IN THE SHOP OR FIELD. ALL WELDS SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE NELSON STUD WELDING COMPANY.

DESIGN CRITERIA:

FLOOR LIVE LOAD	50 PSF
SEISMIC ZONE	2
WIND LOAD	0 TO 29 FEET ----- 15 PSF 30 TO 49 FEET ----- 20 PSF



333 RANCHO ROAD
 LAS VEGAS, NEVADA
 INVESTMENT BUILDING

PROJECT NUMBER
 79.24
 DATE
 5-1-80

SHEET
 G544
 OF 13

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