

GENERAL NOTES

Addison Airport Hanger Relocation
326 New Rickenbacker Drive
Addison, Dallas County, Texas
CCI Project No. 97048-00-3431

DESIGN LOADS: *** based on UBC Model Code ***

The structural components of this project have been designed in accordance with the provisions of the Uniform Building Code, 1994 edition. The design loads are as follows:

1. Typical Floor:	
Offices	50 psf
Partitions	20 psf
Shops	100 psf
Airplane Service Area	12500 pound airplanes
2. Roof	
	20 psf

The wind loads used for the design of the structural components by others have been based upon the provisions of UBC-91, Section 2311 as follows:

Basic Wind Speed	90 mph
Exposure	"C"
Pressure Coefficients	Method 1
Importance Factor	1.0

FOUNDATIONS:

- No geotechnical report was made available for the above mentioned site. The foundation has been designed based upon only a visual inspection of the soil, knowledge of typical soils in the area, and past experiences designing similar foundations.
- Prior to the start of construction, remove all vegetation, large rocks, debris, etc. from the building areas.
- The shallow footing foundation system has been designed using an allowable bearing pressure of 3000 psf for footings founded in the bearing stratum of existing soil and select fill.
- Foundation excavations shall be concreted within eight hours of completion of trenching. Excavations left open for more than eight hours shall be cleaned of all water and/or loose material prior to placement of reinforcement and concrete.
- An authorized representative of the structural engineer or a qualified geotechnical engineer shall be present during the start of foundation excavation operations to inspect and verify that the proper bearing stratum is reached, the required penetration is achieved, and that any groundwater seepage is correctly handled.
- Grade beam and foundation dimensions and/or locations may not be altered without written approval by the structural engineer and the owner.
- All fill material used to bring the building pod to the desired elevation of the civil grading plans shall be properly compacted select fill.
- All select fill shall be sandy clay or clayey sand with a Liquid Limit less than thirty (30) and a Plasticity Index (PI) between four (4) and twelve (12). Select fill shall be placed in eight (8) inch loose lifts and uniformly compacted to a minimum of ninety-five (95) percent of optimum during and after compaction or as prescribed in the geotechnical report.
- Each lift of fill shall be tested for in-place density and moisture content at a frequency of one test per 5000 square feet to assure that the fill is properly placed.
- Finish grade elevations shall provide positive drainage away from the building area.
- The building slab shall be placed directly on properly compacted select fill of depth as suggested on the civil grading plans. A 10-mil polyethylene vapor barrier shall be provided beneath those slab areas which are to be covered, carpeted, or sealed.
- For concrete slabs-on-grade constructed in accordance with the above recommendations (and additional recommendations outlined in the geotechnical report), a Potential Vertical Rise (PVR) of one (1) inch should be anticipated over the life cycle of the project due to climatological extremes.
- Adequate provisions for floor slab movements of this magnitude shall be provided for all partitions, floor-mounted equipment, floor coverings, etc. The Owner shall notify Cook Consultants, Inc. at least two weeks prior to the onset of construction if such potential movements cannot be tolerated.
- All interior partitions shall extend above suspended ceilings at least eight (8) inches. Suspended ceilings shall not be rigidly attached to the structure above, interior partitions nor to the exterior walls or foundations. (If applicable.)

CONCRETE:

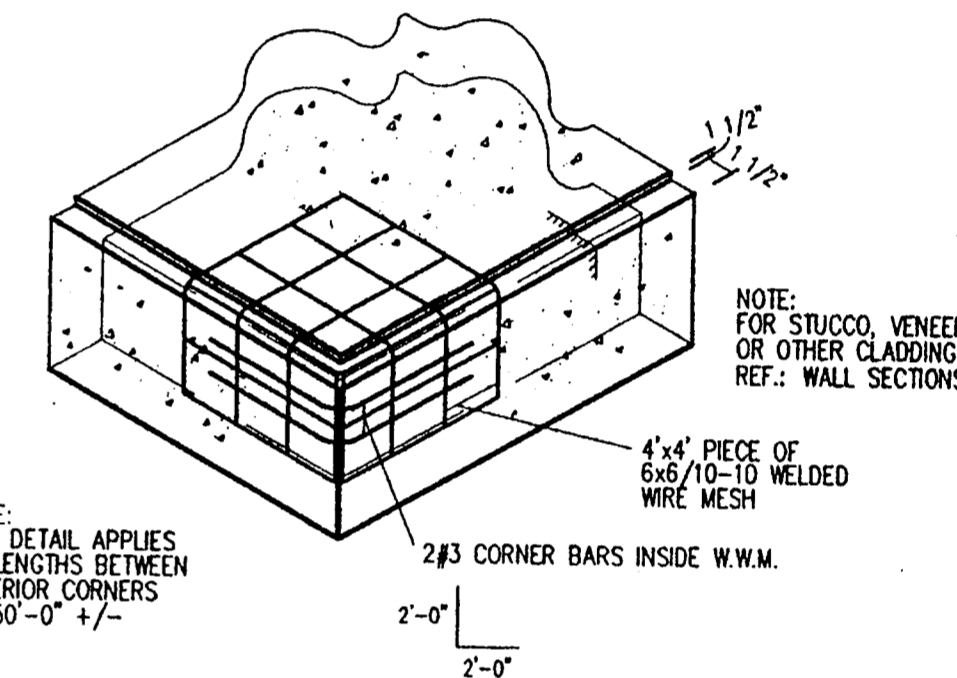
- Concrete work shall be executed in strict accordance with the latest American Concrete Institute Building Code (ACI 318-93). Summer concreting and curing conditions shall be applied in accordance with this code.
- Concrete specifications shall be as follows:
28-Day Strength 3000 psi Sack Content 5.0/cy Aggregate H.R. Slump 2"-6"
Portland cement shall conform to A.S.T.M. C-150. Aggregate shall conform to A.S.T.M. C-33 (H.R.).
- See structural plans for verification of all depressions, openings, cast-in-place accessories, etc.
- Job site conditions shall be verified by the contractor prior to the fabrication of materials.
- One-inch deep sawed or formed control joints shall be provided where shown on the drawings and so that the total area enclosed by such joints does not exceed 1200 S.F. (If owner/contract approves. If not, the total slab area may be placed at the time subject to utilization of shrinkage compensation concrete or additives, or cooler ambient temperature conditions.)
- All concrete exposed to the weather shall have 5 to 6 percent air entrainment.
- Construction joints in beams when necessary, shall occur near the one-third point of the span unless a beam intersects at that point, in which case the joint shall be offset a distance equal to twice the width of the beam containing the joint (U.N.O.). The Engineer shall be notified of proposed construction joint locations at least 48 hours prior to concrete placement in order to review provisions for transfer of shear and other forces through the joints.
- The Contractor shall submit copies of each proposed concrete mix design and construction joints (if different than plans) to the engineer at least one week prior to the start of construction.

REINFORCEMENT:

- All reinforcing shall conform to A.S.T.M. A-615, Grade 60.
- All welded wire fabric shall conform to the latest A.S.T.M. A-185 (if utilized). Roll W.W.F. not allowed, only sheets of W.W.F. allowed. Quantity of wire mesh used (if utilized) shall be equivalent in strength to that of grade 50, #3 bars at 18" o.c. each direction.
- Reinforcing steel shall be designed, detailed, fabricated, and placed in accordance with the latest ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures (ACI-315)," and the CRSI "Recommended Practice for Placing Reinforcing Bars," latest edition.
- Reinforcement shall be placed in order to provide a minimum concrete cover in accordance with the following:
Footings and Grade Beams 3" from bottom and sides
Slabs 1-1/2" from top
- Provide 1-#4 bar each side of all slab openings. Extend bars 1'-0" past openings in each direction.
- Corner reinforcing bars of the same size and spacing as larger reinforcement shall be used at all corners and intersections of walls and beams. (See typical details.)
- Splices in reinforcement shall occur at points of minimum stress and lap 30 bar diameters minimum unless noted otherwise.
- Shop drawings showing placement of reinforcing steel in the building areas shall be submitted to the Engineer for review prior to fabrication of materials (if owner and contractor so agree). Engineer can be present to check reinforcement placement in lieu of providing shop drawings.

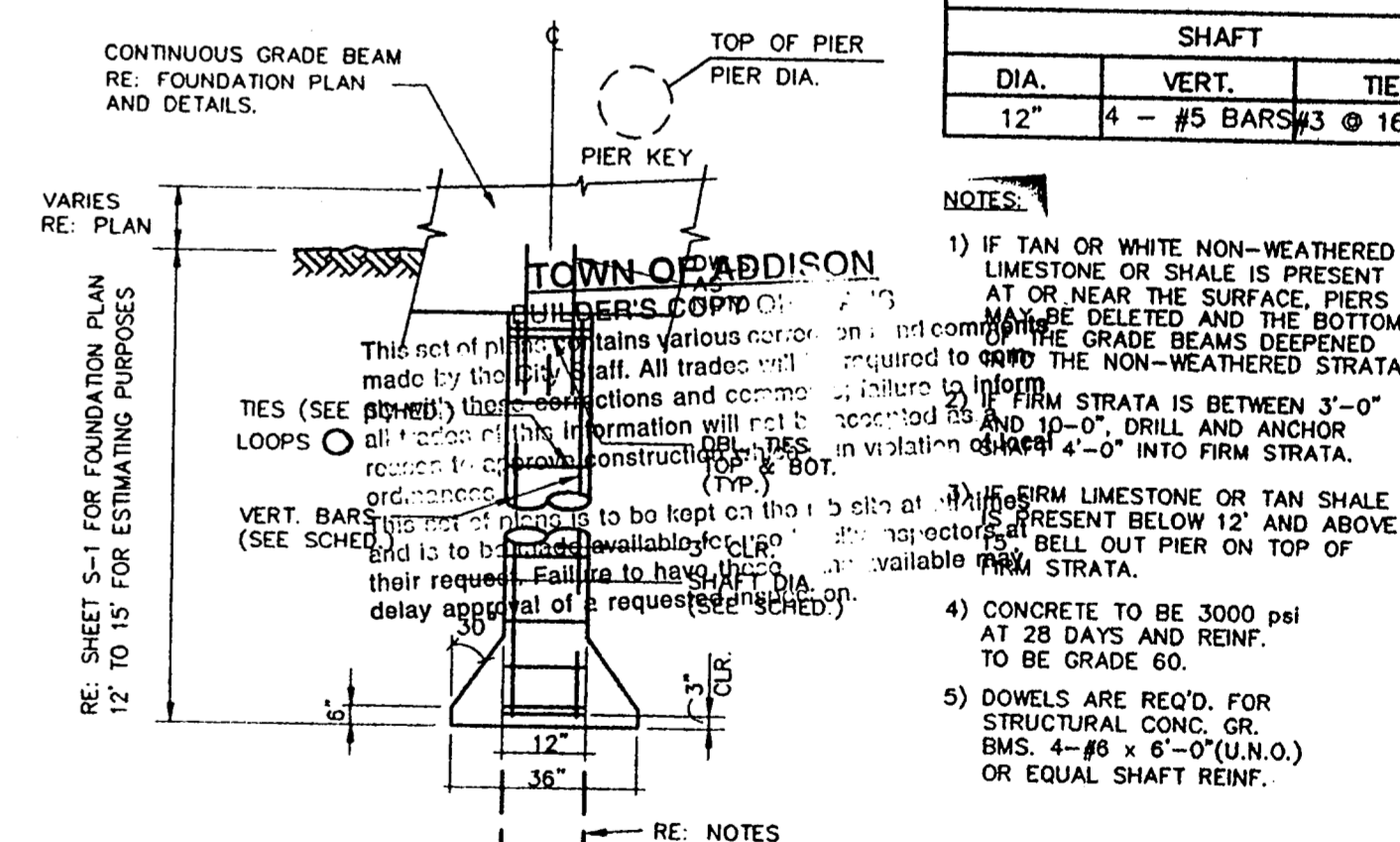
MISCELLANEOUS:

- Wherever the existing building conditions or plans are found to be different from the proposed plans, the Owner and Engineer shall be notified immediately so any adjustments can be made.
- Work shall be done in accordance with plans, specifications and applicable reports and shall meet codes, rules and regulations of all governing agencies having jurisdiction (City, State, National and Utility Companies). Refer to specifications and drawings for materials, conditions and workmanship.
- If plans and specifications differ from required minimum standards set forth in ordinances of the governing agencies, ordinances shall govern.
- Any disagreement between the plans, specifications and the ordinances of the governing agencies, attention must be called to same before signing of the contract. After the contract has been signed, the contractor is responsible for having all work meet with the requirements of the governing ordinances. No extra to the contract will be granted to correct any discrepancy existing between the work and the ordinances.
- Contractor shall notify the Owner and Engineer at least 24 hours in advance (of concrete placement) for observation of reinforcement placement.
- Reinforcement shop drawings shall be submitted to the Engineer for review with at least 5 (five) working days lead time before beginning fabrication of same unless the engineer observes the reinforcement placement.
- Cook Consultants, Inc. provides these plans to represent the structural engineered foundation. Any floor plan or architectural information that has been shown needs to be verified and is shown as a service to the Owner and the Contractor to clarify the relationship of the structural elements to the other portions of the building. The owner and contractor shall be made solely responsible for the integrity of the building envelope, the compatibility of the finish materials, and strict compliance with the minimum standards set by building codes, ordinances, regulatory agencies, and utility companies.



TYPICAL CORNER
NOT TO SCALE

PIER REINF. SCHEDULE		
SHAFT		
DIA.	VERT.	TIES
12"	4'	#5 BARS @ 16" O.C.



TYP. DETAIL OF DRILLED SHAFT PIER & BELL
NOT TO SCALE

<p>Cook Consultants, Inc. CIVIL AND STRUCTURAL ENGINEERING LAND SURVEYING AND LAND PLANNING 12250 Inwood road • suite 10 • Dallas, Texas 75244 (972) 387-1890 • 1-800-545-8093 • fax (972) 387-8210</p>	<p>NOTE: THESE DOCUMENTS &/OR SPECIFICATIONS MAY BE USED FOR PURPOSES AS INDICATED BELOW</p> <p><input checked="" type="checkbox"/> COORDINATION & OR PRELIMINARY <input checked="" type="checkbox"/> PERMITTING</p> <p><input checked="" type="checkbox"/> BIDDING ONLY <input checked="" type="checkbox"/> CONSTRUCTION</p> <p>UNDER THE AUTHORITY OF JACK C. COOK III</p>	<p>STRUCTURAL DETAILS</p> <p>326 NEW RICKENBACKER DRIVE</p> <p>ADDISON AIRPORT</p> <p>ADDISON, DALLAS COUNTY, TEXAS</p>																	
		<p>DATE: 10/29/97</p> <p>PROJECT: 97048</p>	DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	SHEET										
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