

GENERAL NOTES

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I. **DESIGN CRITERIA**

A. **GENERAL BUILDING CODE**
The Contract Documents are based on the requirements of the City of Houston Building Code.

II. **CONCRETE REPAIR MATERIALS**

A. **CLASSES OF CONCRETE**
All concrete shall conform to the requirements as specified in Specification Section "Concrete Repair Materials."

B. **HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE POURS**
There shall be no horizontal construction joints in any concrete pours unless shown on the drawings. The Engineer shall approve all deviations or additional joints in writing.

C. **REINFORCING STEEL SPECIFICATION**

- All Reinforcing Steel shall be ASTM A615 Grade 60 unless noted otherwise on the drawings or in these notes.
- Welded Wire Reinforcement. Welded smooth wire reinforcement, ASTM A185, yield strength 65,000 PSI where noted on the drawings.

D. **PLACEMENT OF WELDED WIRE REINFORCEMENT**
Wherever welded wire reinforcement is specified as reinforcement, it shall be continuous across the entire concrete surface and not interrupted by beams or girders and properly lapped one cross wire spacing plus 2".

E. **REINFORCING STEEL COVERAGE**
Reinforcing steel coverage should conform to the requirements specified in drawing details. Cover specified shall be considered minimums that may require increasing where reinforcing steel intersects for different member types. Cover in structural members not specified in the details shall conform to the requirements of ACI 318 unless specified otherwise on the drawings. The reinforcing steel detailer shall adjust reinforcing steel cage sizes at intersecting structural members as required to allow clearance for intersecting reinforcing bar layers with minimum specified cover.

F. **SPLICES IN REINFORCING STEEL**
Splices of new reinforcing steel with existing reinforcement are indicated in drawing details. Contact Engineer for splice requirements for cases not shown in drawings.

III. **SUBMITTALS**

A. **SUBMITTAL LIST AND SCHEDULE**
The General Contractor shall prepare a detailed list and schedule of all submittal items to be sent to the Structural Engineer prior to the start of construction. This list shall be updated and revised and kept current as the job progresses. The submittal list shall be organized as shown below:

- Manufacturer's Literature for Products, Assemblies, and Hardware
- Products, Assemblies and Hardware
- Product Certifications, Mill Certificates, and Affidavits

B. **MANUFACTURER'S LITERATURE**
Submit two copies of manufacturers literature for all materials and products used in construction on the project.

C. **REPRODUCTION**
The use of electronic files or reproductions of these contract documents by any contractor, subcontractor, erector, fabricator, or material supplier in lieu of preparation of shop drawings signifies their acceptance of all information shown hereon as correct, and obligates themselves to any job expense, real or implied, arising due to any errors that may occur hereon.

IV. **MISCELLANEOUS**

A. **CONTRACT DOCUMENTS**

- It is the responsibility of the General Contractor to obtain all Contract Documents and latest addenda and to submit such documents to all subcontractors and material suppliers prior to the submittal of shop drawings, fabrication of any structural members, and erection in the field.
- The contract structural drawings and specifications represent the repairs, and, except where specifically shown, do not indicate the method or means of construction. The Contractor shall supervise and direct the work and shall be solely responsible for all construction means, methods, procedures, techniques, and sequence.

B. **CONFLICTS IN STRUCTURAL REQUIREMENTS**
Where conflict exists among the various parts of the structural contract documents, structural drawings, general notes, and specifications, the strictest requirements, as indicated by the Engineer, shall govern.

C. **EXISTING CONDITIONS**

- The General Contractor shall verify all dimensions and conditions of the existing building at the job site and report any discrepancies from assumed conditions shown on the drawings to the Engineer prior to the fabrication and erection of any members.
- The General Contractor is responsible for determining the actual extent and locations of repair areas in accordance with the specifications. Task Items are shown only to represent the type of deterioration. All Task Items shall be marked and quantified by the Contractor and verified by the Engineer.
- The General Contractor is to receive a written approval from the Engineer prior to beginning work. Any work completed beyond approved quantities is at no cost to the Owner.
- Existing construction shown on the drawings was obtained from existing limited drawings and site observation. These drawings of existing construction are available for contractor use. However, the available drawings of existing construction are not necessarily complete. The contractor shall field verify all pertinent information.
- Demolition, cutting, drilling, etc. of existing work shall be performed with great care so as not to jeopardize the structural integrity of the existing building. If any architectural, structural, or MEP members not designated for removal interfere with the repairs, the Engineer and Owner shall be notified immediately and approval obtained prior to removal of those members.
- The contractor shall safely shore existing construction wherever existing supports are removed to allow repair work. All shoring methods and sequencing of demolition shall be the responsibility of the contractor and his engineer.
- The contractor shall verify the location of existing utilities prior to the start of construction and take care to protect existing utilities that are to remain in service.
- The contractor shall repair all damage caused during construction with similar materials and workmanship to restore conditions to levels acceptable to the Engineer and Owner.

D. **ADJACENT BUILDINGS AND PROPERTY**

- The General Contractor shall ensure that all construction methods used will not cause damage to the adjacent buildings and property.
- The General Contractor is advised to perform all photographic surveys and other documentation of the adjacent buildings before the start of and during construction.

E. **RESPONSIBILITY OF THE CONTRACTOR FOR CONSTRUCTION LOADS**
The Contractor shall not overload the structure during repairs. The Contractor shall be responsible for checking the adequacy of the structure to support any applied construction loads, including those due to construction vehicles or equipment, material handling or storage, shoring or reshoring, or any other construction activity. The Contractor shall submit calculations signed and sealed by an engineer licensed in the state where the project is located verifying the adequacy of the structure for any proposed construction loads that are in excess of the stated design loads. The Structural Engineer is not responsible to design or check the structure for loads applied to the structure for any construction activity.

F. **CONTRACTOR SUBSTITUTIONS**
Any materials or products submitted for approval that are different from the material or products specified in the structural contract documents will be approved only if the following criteria are satisfied:

- A cost savings to the Owner is documented and submitted with the request.
- The material or product has been approved by the International Code Council (ICC) and the ICC report is submitted with the request.

Submittals not satisfying the above criteria will not be considered.

G. **THE STRUCTURAL ENGINEER'S ROLE DURING CONSTRUCTION**

- The Engineer shall not have control nor charge of, and shall not be responsible for, construction means, methods, techniques, sequences, or procedures, for safety precautions and programs in connection with the work, for the

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acts or omission of the Contractor, Subcontractor, or any other persons performing any of the work, or for the failure of any of them to carry out the work in accordance with the contract documents.

- Periodic site observation by field representatives of Walter P. Moore and Associates is solely for the purpose of becoming generally familiar with the progress and quality of the Work completed and determining, in general, if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the structural contract documents. This limited site observation should not be construed as exhaustive or continuous to check the quality or quantity of the work, but rather periodic in an effort to guard the Owner against defects or deficiencies in the work of the Contractor.

H. **MAINTENANCE STATEMENT**
All structures require periodic maintenance to extend lifespan and to ensure structural integrity from exposure to the environment. A planned program of maintenance shall be established by the building owner. This program shall include such items such as but not limited to painting of structural steel, protective coating for concrete, sealants, caulked joints, expansion joints, control joints, spalls and cracks in concrete, and pressure washing of exposed structural elements exposed to a salt environment or other harsh chemicals.

V. **DRAWING INTERPRETATION**

A. **STRUCTURAL ABBREVIATIONS**
The following abbreviations may be used on the structural drawings:

| | | | |
|-------|-----------------------|-------|--------------------|
| CMU | CONCRETE MASONRY UNIT | REINF | REINFORCING |
| EJ | EXPANSION JOINT | REQD | REQUIRED |
| EXIST | EXISTING | TYP | TYPICAL |
| FV | FIELD VERIFY | WBA | WATSON BOWMAN ACME |
| MAX | MAXIMUM | | |
| MIN | MINIMUM | | |

B. **DRAWING VIEWS LABELED AS "TYPICAL"**
Partial plans, elevations, sections, details, or schedules labeled with "Typical" at the beginning of their title shall apply to all situations occurring on the project that are the same or similar to those specifically shown. The applicability of the content of these views to locations on the plan can be determined from the title of the views. Such views shall apply whether or not they are keyed in at each location. Decisions regarding applicability of these "Typical" views shall be determined by the Structural Engineer.

C. **SYMBOLS AND NOTATIONS**

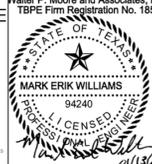
Task Item number 

D. **REPAIR TASK ITEMS:**

| TASK ITEM # | TASK ITEM DESCRIPTION |
|-------------|----------------------------------------------------------------------------------|
| 2.1 | CONCRETE SURFACE REPAIR |
| 2.3 | CONCRETE FLOOR REPAIR |
| 2.7 | RAMP SLAB/COLUMN PATCH AND SEAL |
| 3.1 | OVERHEAD SLAB REPAIR |
| 3.4 | CONCRETE JOIST REPAIR |
| 3.5 | CONCRETE BEAM REPAIR |
| 4.1 | CONCRETE WALL REPAIR |
| 6.1A | EJ REPLACEMENT - EXTRUDED CLOSED CELL WITH CONCRETE BLOCKOUT |
| 6.1B | EJ REPLACEMENT - EXTRUDED CLOSED CELL WITH METAL BLOCKOUT |
| 6.1C | EJ REPLACEMENT - EXTRUDED CLOSED CELL WITH METAL BLOCKOUT |
| 6.1D | EJ REPLACEMENT - EXTRUDED CLOSED CELL WITH METAL BLOCKOUT AND BRICK COVER |
| 6.1E | EJ REPLACEMENT DETAIL - EXTRUDED CLOSED CELL WITH METAL BLOCKOUT AND BRICK COVER |
| 7.1 | CRACK REPAIR |
| 7.3 | JOINT SEALANT REPLACEMENT |
| 7.5 | COVE SEALANT |
| 7.7 | TRAFFIC TOPPING FOR LEVEL P |
| 7.13 | HIGH PERFORMANCE COATING ON STAIRWELL WALLS |
| 8.1 | MASONRY TUCKPOINTING |
| 8.2 | CMU REPLACEMENT |
| 10.5 | CLEAN AND COAT CORRODED STEEL |
| 10.7 | EJ ANGLE REPLACEMENT DETAIL |
| 12.2 | REPLACE WHEEL STOPS |
| 12.3 | STAIRWELL PLASTER REPAIR |

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| CITY OF HOUSTON BUILDING SERVICES DEPARTMENT | | |
| CITY HALL ANNEX PARKING GARAGE REPAIRS PHASE II | | |
| FILE NO. | WPM PROJECT NO. | |
| WBS No. D-000113-0010-4 | D03.10108.02 | |
| DRAWING SCALE | GENERAL NOTES | |
| VERT. AS SHOWN HORIZ. AS SHOWN | DRAWING TITLE | |
| CITY OF HOUSTON PM | S0.01 | |
| JAMES REDDINGTON, JR. | | |
| SHEET NO. 2 OF 9 | | |
| | SHEET NO. | |