HCCS 3200 MAIN PG HIGH PRIORITY REPAIRS

PROJECT LOCATION





	SHEET LIST
SHEET NUMBER	SHEET NAME
S0.00	COVER SHEET
S0.01	GENERAL NOTES
S0.02	GENERAL NOTES
S1.00	PLAN - LEVEL 1
S1.01	PLAN - LEVEL 2
S1.02	PLAN - LEVEL 3
S1.03	PLAN - LEVEL 4
S1.04	PLAN - LEVEL 5
S1.05	PLAN - LEVEL 6
S1.06	PLAN - LEVEL 7
S1.07	PLAN - LEVEL 8
S2.00	DETAILS
S2.01	DETAILS
S2.02	DETAILS
S2.03	DETAILS



Walter P Moore and Associates, Inc. 1301 McKinney Street, Suite 1100 Houston, Texas 77010

713.630.7300

Project Nam

HCCS 3200 MAIN PG HIGH PRIORITY REPAIRS

HOUSTON
COMMUNITY
COLLEGE SYSTEM

Issues/Revisi

Project Status

No.	Date	Description
1	04/20/2020	ISSUED FOR CONSTRUCTION
	ect Number : 20020.00	Drawn By : RC/AZ
Appr GH/E	oved By : EVC	Checked By : DZ/AVB

Certification Statement:

TO THE BEST OF THE ENGINEER'S KNOWLEDGE,
THE PLANS AND SPECIFICATIONS COMPLY WITH
THE APPLICABLE MINIMUM BUILDING CODES.

Seal and Signature : Walter P. Moore and Associates, Inc.



Copyright (c) 2019 by Walter P. Moore and Associates, Inc.

This document and the information herein is the property of Walter P. Moore and Associates, Inc. No part hereof shall be copied, duplicated, distributed, disclosed or used to any extent whatsoever except as expressly authorized by Walter P. Moore and Associates, Inc. Any person, firm, or corporation receiving this document, however obtained, shall by virtue hereof, be deemed to have agreed to the forgoing restrictions and that this document will be held in trust and confidence subject only to the private use expressly authorized by Walter P. Moore and Associates, Inc.

Drawing Title

COVER SHEET

Filename :

S0.00

II. SHORING

A. GENERAL

- 1. SHORING DESIGN IN THESE DRAWINGS IS AN INTERIM, TEMPORARY MEASURE TO PROVIDE SUPPLEMENTAL GRAVITY SUPPORT TO THE AREA AFFECTED BY THE REPAIRS.
- THESE DRAWINGS INDICATE SHORING PERFORMANCE REQUIREMENTS FOR THE STRUCTURAL MEMBERS SHOWN IN REPAIR DETAILS. THE DETAILS SHOWN IN THE DRAWINGS ARE CONCEPTUAL IN NATURE TO INDICATE THE INTENDED MEANS OF SUPPORTING THE INDICATED MEMBERS BY THE SHORES. THE FINAL DESIGN OF THE SHORING TO MEET THESE REQUIREMENTS SHALL BE RESPONSIBILITY OF THE SHORING CONTRACTOR AND SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- THE SHORING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS OF THE SHORING TO THE ENGINEER FOR REVIEW AND APPROVAL BEFORE EXECUTING THE INSTALLATION. THE SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING ELEMENTS:
 - A. SHORING POSTS.
 - B. SHORING BRACES.
- C. DETAILS OF ATTACHMENT OF SHORING POSTS TO SUPPORTING STRUCTURAL MEMBERS.
- D. DETAILS OF SHORING POST BASE PLATES.

B. DESIGN CRITERIA

- I. SHORING OF DOUBLE TEE MEMBERS SHALL BE DESIGNED PER SERVICE (UNFACTORED) LOADS SPECIFIED IN THE DETAILS. PROVIDE A MINIMUM SAFETY FACTOR OF 2.0 FOR SHORING DESIGN. REFER TO DRAWINGS FOR REQUIRED RATED CAPACITIES OF INDIVIDUAL SHORING ELEMENTS.
- 2. THE REQUIRED RATED CAPACITY OF THE SHORING INDICATED IN THE DRAWINGS SHALL CONSIDER THE HEIGHT OF THE SHORING UNDER THE MEMBER BEING SHORED WHEN THE SHORES ARE EXTENDED IN PLACE.
- 3. CONSTRUCTION LOADS (EQUIPMENT, MATERIALS, AND WORKERS) ON THE WORK AREA SHALL NOT EXCEED 20 PSF.
- 4. THE AREA BEING SHORED SHALL NOT BE OPEN TO THE PUBLIC DURING CONSTRUCTION ACTIVITIES.

C. INSTALLATION OF SHORING

- 1. SHORING SHALL BE PUT IN PLACE PRIOR TO PERFORMING THE REPAIRS IN-DICATED IN THE DRAWINGS. SHORING SHALL REMAIN IN PLACE DURING REPAIRS AND SHALL NOT BE REMOVED UNTIL ALL REPAIRS HAVE BEEN COMPLETED.
- 2. SHORES SHALL BE INSTALLED SNUG TIGHT ONLY AGAINST THE MEMBER BEING SHORED. DO NOT RELIEVE LOAD FROM THE EXISTING STRUCTURE.
- 3. ALL SHORE POSTS MUST BE INSTALLED VERTICALLY PLUMB. PROVIDE BRACING BETWEEN ADJACENT SHORE POSTS AS REQUIRED FOR STABILITY. INSTALL SHORE POST BRACING PER MANUFACTURER'S SPECIFICATIONS.
- 4. SHORE POSTS SHALL BE LOCATED UNDER THE MEMBERS SHOWN IN THE DRAWINGS AND POSITIONED SO THAT THE LOAD IS TRANSFERRED DIRECTLY TO THE SUPPORTING STRUCTURAL MEMBERS INDICATED IN THE DRAWINGS. CONTACT ENGINEER IF A SHORE POST CANNOT BE PROVIDED AT A LOCATION INDICATED IN THE DRAWINGS.
- 5. SHORING POSTS SHALL BE PROVIDED WITH BASE PLATES HAVING DIMENSIONS SUCH THAT THE LOAD UNDER THE BASE PLATE DOES NOT EXCEED 1000 PSF.
- 6. PROVIDE APPROPRIATE ANCHORAGE AT THE TOP AND BOTTOM OF SHORING ELEMENTS TO PREVENT OVERTURNING OR TIPPING OVER OF SHORE POSTS.
- 7. SHORED AREAS SHALL BE COMPLETELY BARRICADED TO PROTECT SHORE POSTS FROM VEHICULAR TRAFFIC.
- 8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXPOSED STRUCTURAL FINISHED SURFACES (FLOOR, OVERHEAD SLAB, BEAMS, COLUMNS, WALLS, ETC.) DURING INSTALLATION OF SHORING.
- 9. SHORING LAYOUT SHALL MEET SAFETY AND OPERATION REQUIREMENTS OF THE OWNER.
- 10. SHORING POSTS DETAILS SHOWN IN DRAWINGS ARE CONCEPTUAL ONLY. ACTUAL SHORING MEMBERS AND CONNECTIONS MAY VARY DEPENDING ON THE SHORING MANUFACTURER'S PROPRIETARY SYSTEM AVAILABLE.
- 11. SHORING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

I. NON-DESTRUCTIVE EVALUATION

A. ITEMS EMBEDDED IN CONCRETE STRUCTURES

- ITEMS EMBEDDED IN CONCRETE STRUCTURES SHALL NOT BE DAMAGED DURING REPAIR WORK OR INSTALLATION OF NEW MEMBERS REQUIRING POST-INSTALLED ANCHORS. EMBEDDED ITEMS MAY INCLUDE MILD REINFORCEMENT, PRESTRESSING REINFORCEMENT, DOWELS, EMBEDDED CONNECTIONS, ELECTRICAL CONDUITS, PLUMBING, ETC.
- ITEMS EMBEDDED IN CONCRETE SHALL BE LOCATED BY NON-DESTRUCTIVE EVALUATION PRIOR TO PERFORMING ANY WORK. CONTRACTOR SHALL MARK ON THE STRUCTURE THE LOCATION OF EMBEDDED ITEMS AND PROVIDE A REPORT TO THE ENGINEER.
- 3. CONTRACTOR SHALL NOT START FABRICATION OF NEW MEMBERS UNTIL ITEMS EMBEDDED IN CONCRETE HAVE BEEN LOCATED. CONTACT ENGINEER IF EXISTING EMBEDDED ITEMS INTERFERE WITH LOCATION OF POST-INSTALLED ANCHORS SPECIFIED IN DRAWINGS.
- 4. ENGINEER MAY REQUIRE A PARTICULAR NON-DESTRUCTIVE EVALUATION METHOD FOR THE LOCATION OF EMBEDDED ITEMS.

IV. CONCRETE REPAIRS

- A. CONCRETE REPAIR MATERIALS
 - 1. ALL CONCRETE SHALL CONFORM TO THE REQUIREMENTS AS SPECIFIED IN SPECIFICATION SECTION "CONCRETE REPAIR MATERIALS."
- B. REINFORCING STEEL
 - SUPPLEMENTAL REINFORCING STEEL SHALL BE ASTM A 615 GRADE 60 UNLESS NOTED OTHERWISE ON THE DRAWINGS OR IN THESE NOTES.
 - 2. SUPPLEMENTAL SMOOTH WELDED WIRE REINFORCEMENT: ASTM A 185, YIELD STRENGTH 65,000 PSI.

C. REINFORCEMENT IN TOPPING SLABS

- 1. IF REINFORCEMENT IN TOPPING SLAB NEEDS TO BE SUPPLEMENTED, PROVIDE MINIMUM REINFORCEMENT AS NOTED BELOW UNLESS EXISTING REINFORCEMENT HAS LARGER AREA PER UNIT WEIGHT.
 - A. WELDED SMOOTH WIRE REINFORCEMENT 6X6-W2.9XW2.9.

D. REINFORCING STEEL COVERAGE

REINFORCING STEEL COVERAGE SHOULD CONFORM TO THE REQUIRE-MENTS SPECIFIED ON THE DRAWINGS. COVER SPECIFIED SHALL BE CONSIDERED MINIMUM, HOWEVER EXISTING REINFORCEMENT MAY HAVE A SMALLER COVER THAN SPECIFIED IN DRAWING DETAILS. CONCRETE PATCHES CAN BE BUILT UP TO PROVIDE THE REQUIRED COVER AS LONG AS THE PATCH APPEARANCE IS ACCEPTABLE TO OWNER AND IT DOES NOT REPRESENT A TRIPPING HAZARD TO PEDESTRIANS OR A BUMP TO VEHICLES. COVER IN STRUCTURAL MEMBERS NOT SPECIFIED IN THE DETAILS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS.

V. SUBMITTALS

A. SUBMITTAL LIST AND SCHEDULE

- THE 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:
 - A. SHOP DRAWINGS
- B. DESIGN CALCULATIONS
- C. PRODUCT DATA, CERTIFICATES, REPORTS, AND OTHER LITERATURE

B. SUBMITTALS TO BE PROVIDED TO STRUCTURAL ENGINEER

- 1. PRODUCT SUBMITTALS: IN ADDITION TO THE SUBMITTALS REQUIRED BY THE PROJECT SPECIFICATIONS, THE FOLLOWING SUBMITTALS SHALL BE PROVIDED:
 - A. EPOXY-MODIFIED CEMENTITIOUS COATING.
 - B. CONCRETE REPAIR MATERIALS.
 - C. EPOXY RESIN FOR CRACK INJECTION.
 - D. STEEL COATING MATERIALS.
 - E. JOINT SEALANTS (HORIZONTAL, VERTICAL, AND COVE)
 - TRAFFIC COATINGS.

2. DEFERRED SUBMITTALS:

THE FOLLOWING ITEMS ARE CONSIDERED DEFERRED SUBMITTALS BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE:
 SHORING (S&S, REC)

NOTES

(S&S) ITEMS MARKED THUS SHALL HAVE THE SHOP DRAWINGS AND DELEGATED DESIGN SUBMITTALS (INCLUDING CALCULATIONS) SEALED PER THE PROJECT SPECIFICATIONS BY AN ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

(REC) ITEMS MARKED THUS SHALL BE SUBMITTED TO ENGINEER FOR RECORD ONLY AND WILL NOT HAVE THE ENGINEER'S SHOP DRAWING STAMP AFFIXED.

- B. DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE FORWARDED TO THE BUILDING OFFICIAL.
- DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

3. SUBMITTAL REQUIREMENTS:

- A. ALL SHOP DRAWINGS MUST BE REVIEWED AND ELECTRONICALLY STAMPED BY THE CONTRACTOR PRIOR TO SUBMITTAL.
- CONTRACTOR SHALL PROVIDE THE SUBMITTAL IN ELECTRONIC PORTABLE DOCUMENT FORMAT (PDF) PER THE SPECIFICATIONS.
- C. THE OMISSION FROM THE SHOP DRAWINGS OF ANY MATERIALS REQUIRED BY THE CONTRACT DOCUMENTS TO BE FURNISHED SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING SUCH MATERIALS, REGARDLESS OF WHETHER THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.

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.

MISCELLANEOUS

A. CONTRACT DOCUMENTS

- 1. IT IS THE RESPONSIBILITY OF THE 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.
- 2. CONTRACTOR SHALL FULLY AND PROPERLY IMPLEMENT THE ENGINEERING CONTROLS, WORK PRACTICES, AND RESPIRATORY PROTECTION AGAINST TOXIC AND HAZARDOUS SUBSTANCES INCLUDING RESPIRABLE CRYSTALLINE SILICA ACCORDING TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, OSHA 1926.1153. WALTER P MOORE DOES NOT HAVE CONTROL OVER, CHARGE OF, OR RESPONSIBILITY FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, NOR SHALL WALTER P MOORE BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE REPAIRED STRUCTURE, 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.
- 4. REFER TO DRAWINGS OF EXISTING FACILITY (OTHER THAN REPAIR DRAWINGS) FOR COMPLETE INFORMATION INCLUDING: PREVIOUS REPAIRS PERFORMED IN THE FACILITY, PRESENCE OF PRESTRESSING, LOCATION AND SIZE OF STRUCTURAL MEMBERS (BEAMS, COLUMNS, WALLS, ETC.), SLAB THICKNESS, AND OTHER INFORMATION RELEVANT TO THE PROJECT.
- IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SHOWN OR SPECIFIED IN SIMILAR CONDITIONS.

B. CONFLICTS IN STRUCTURAL REQUIREMENTS

1. WHERE CONFLICT EXISTS AMONG THE VARIOUS PARTS OF THE REPAIR CONTRACT DOCUMENTS, REPAIR DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS, THE STRICTEST REQUIREMENTS, AS INDICATED BY THE ENGINEER, SHALL GOVERN.

C. EXISTING CONDITIONS

- 1. THE 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 ENGINEER PRIOR TO THE FABRICATION AND ERECTION OF ANY MEMBERS. EXISTING DIMENSIONS SHOWN ON THE DRAWINGS ARE FOR GENERAL REFERENCE ONLY AND SHOULD NOT BE USED FOR FINAL CONSTRUCTION OR DETAILING.
- 2. EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS WAS OBTAINED FROM EXISTING CONSTRUCTION DOCUMENTS AND LIMITED SITE OBSERVATION. THESE DRAWINGS OF EXISTING CONSTRUCTION ARE AVAILABLE FOR CONTRACTOR USE AND SHALL BE REFERENCED FOR FAMILIARIZATION WITH EXISTING CONDITIONS. HOWEVER, THE AVAILABLE DRAWINGS OF EXISTING CONSTRUCTION ARE NOT NECESSARILY COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR BEING KNOWLEDGEABLE ON INFORMATION PRESENTED IN AVAILABLE DRAWINGS AND SHALL FIELD VERIFY ALL PERTINENT INFORMATION.
- DEMOLITION, CUTTING, DRILLING, ETC. OF EXISTING WORK SHALL BE PER-FORMED 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 NEW WORK, THE OWNER SHALL BE NOTIFIED IMMEDIATELY AND APPROVAL OBTAINED PRIOR TO REMOVAL OF THOSE MEMBERS.
- 4. THE CONTRACTOR SHALL SAFELY SHORE EXISTING CONSTRUCTION WHEREVER EXISTING SUPPORTS ARE REMOVED TO ALLOW THE INSTALLATION OF NEW WORK. ALL SHORING METHODS AND SEQUENCING OF DEMOLITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HIS ENGINEER.

- THE CONTRACTOR SHALL PERFORM A SURVEY TO LOCATE ALL EXISTING UTILITIES (INCLUDING UNDERGROUND UTILITIES) PRIOR TO THE START OF CONSTRUCTION AND TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN IN SERVICE. EXISTING CIVIL, MECHANICAL, ELECTRICAL, PLUMBING, AND EMERGENCY PROTECTION SYSTEM SERVICING ANY AREAS OUTSIDE THE WORK AREA ARE TO BE MAINTAINED IN OPERABLE CONDITION THROUGHOUT THE DURATION OF REPAIRS. CONTRACTOR SHALL MAKE NECESSARY TEMPORARY CONNECTIONS TO MAINTAIN EXISTING UTILITIES IN SERVICE DURING THE WORK. TEMPORARY, LOCALIZED INTERRUPTION OF THESE SYSTEMS SHALL REQUIRE APPROVAL BY THE OWNER.
- 6. THE CONTRACTOR SHALL PROVIDE DUST, ODOR, AND NOISE PROTECTION AND SAFETY MEASURES AS NECESSARY FOR THE DURATION OF REPAIRS. PROVIDE ALL MEASURES NECESSARY TO PROTECT THE EXISTING STRUCTURE, BUILDING INTERIOR, VEHICLES, FACILITY PATRONS, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT LIMITED TO TEMPORARY BRACING, SHORING, FORMWORK, PROTECTIVE ENCLOSURES, AND TRAFFIC CONTROLS.
- THE CONTRACTOR SHALL PERFORM A PRE-CONSTRUCTION CONDITION SURVEY TO DOCUMENT SITE CONDITIONS PRIOR TO START OF WORK. SUBMIT SURVEY TO OWNER AND THE ENGINEER. DOCUMENT LOCATION AND CONDITION OF ANY CONSTRUCTION DESIGNATED FOR REMOVAL AND RE-INSTALLATION.
- 8. THE CONTRACTOR SHALL REPAIR ALL DAMAGE CAUSED DURING CONSTRUCTION WITH SIMILAR MATERIALS AND WORKMANSHIP TO RESTORE CONDITIONS TO LEVELS ACCEPTABLE TO THE OWNER.
- RESPONSIBILITY OF THE CONTRACTOR FOR STABILITY OF THE STRUCTURE DURING CONSTRUCTION
- 1. REPAIRS OF STRUCTURAL ELEMENTS OF THE PROJECT HAVE BEEN DESIGNED BY THE STRUCTURAL ENGINEER TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES THAT COULD OCCUR IN THE FINAL REPAIRED STRUCTURE ONLY. THE ABILITY OF THE STRUCTURAL FRAME TO RESIST THE REQUIRED CODE FORCES DERIVES FROM THE COMPLETE INSTALLATION OF THE REPAIRS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL REQUIRED BRACING DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF ALL STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PROCESS UNTIL THE REPAIR WORK IS COMPLETELY INSTALLED AND ALL DESIGNATED CONCRETE ELEMENTS (IF ANY) HAVE REACHED A MINIMUM OF 75% OF THEIR DESIGN STRENGTH.

E. RESPONSIBILITY OF THE CONTRACTOR FOR CONSTRUCTION LOADS

1. THE CONTRACTOR SHALL NOT OVERLOAD THE STRUCTURE DURING CONSTRUCTION. 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.

CONTRACTOR SUBSTITUTIONS

- 1. ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIAL OR PRODUCTS SPECIFIED IN THE STRUCTURAL CONTRACT DOCUMENTS WILL BE CONSIDERED FOR APPROVAL ONLY IF THE FOLLOWING CRITERIA ARE SATISFIED:
 - A. A COST SAVINGS TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST.
 - B. THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE INTERNATIONAL CODE COUNCIL (ICC) AND THE ICC REPORT IS SUBMITTED WITH THE REQUEST.
 - 1) THE ICC ESR THAT IS SUBMITTED MUST REFERENCE THE BUILDING CODE UNDER WHICH THE PROJECT IS PERMITTED.
 - ICC REPORTS THAT HAVE BEEN DISCONTINUED AT THE TIME OF PRODUCT INSTALLATION WILL NOT BE ACCEPTED.
- 2. SUBMITTALS NOT SATISFYING THE ABOVE CRITERIA WILL NOT BE CONSIDERED.

G. THE STRUCTURAL ENGINEER'S ROLE DURING CONSTRUCTION

- 1. 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 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.
- 2. 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 REPAIR 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



Walter P Moore and Associates, Inc. 1301 McKinney Street, Suite 1100 Houston, Texas 77010

713.630.7300

Project Name

HCCS 3200 MAIN PG HIGH PRIORITY REPAIRS

HOUSTON
COMMUNITY
COLLEGE SYSTEM

Issues/Revisions

Project Status

No. Date Description

1 04/20/2020 ISSUED FOR CONSTRUCTION

Project Number: Drawn By:
D03.20020.00 RC/AZ
Approved By: Checked By:

Certification Statement:
TO THE BEST OF THE ENGINEER'S KNOWLEDGE,
THE PLANS AND SPECIFICATIONS COMPLY WITH
THE APPLICABLE MINIMUM BUILDING CODES.

Seal and Signature : Walter P. Moore and Associates, Inc. TBPE Firm Registration No. 1856

DZ/AVB



Copyright (c) 2019 by Walter P. Moore and Associates, Inc

This document and the information herein is the property of Walter P. Moore and Associates, Inc. No part hereof shall be copied, duplicated, distributed, disclosed or used to any extent whatsoever except as expressly authorized by Walter P. Moore and Associates, Inc. Any person, firm, or corporation receiving this document, however obtained, shall by virtue hereof, be deemed to have agreed to the forgoing restrictions and that this document will be held in trust and confidence subject only to the private use expressly authorized by Walter P. Moore and Associates, Inc.

Drawing Title

GH/EVC

GENERAL NOTES

Filename :

S0.01

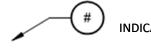
VII. DRAWING INTERPRETATION

- A. DRAWING VIEWS LABELED AS "TYPICAL"
 - 1. 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.
- B. STRUCTURAL ABBREVIATIONS, SYMBOLS, AND NOTATIONS
- 1. THE FOLLOWING ABBREVIATIONS AND NOTATIONS MAY APPEAR ON THE
- @ AT& AND# NUMBER
- Ø ROUND, DIAMETER
- ACI AMERICAN CONCRETE INSTITUTE
- ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS
- BLDG BUILDING
 BOT BOTTOM
- CL CENTER LINE
 COL COLUMN
 CONC CONCRETE
- EA EACH
 ELEV ELEVATION
- EXIST EXISTING
- F'C CONCRETE STRENGTH
 FV FIELD VERIFY
- FY YIELD STRENGTH
 FU ULTIMATE STRENGTH
- HORZ HORIZONTAL
 ICRI INTERNATIONAL CONCRETE REPAIR INSTITUTE
- L LENGTH
- LBF POUNDS FORCE
 MAX MAXIMUM
- MIN MINIMUM
- MISC MISCELLANEOUS

 MSDS MATERIAL SAFETY DATA SHEET
- NTS NOT TO SCALE
- OC ON CENTER
- PSF POUNDS PER SQUARE FOOT

STANDARD

- QTY QUANTITY
 REINF REINFORCEMENT
 REQD REQUIRED
- TBPE TEXAS BOARD OF PROFESSIONAL ENGINEERS
- TI TASK ITEM
- TYP TYPICAL
- UNO UNLESS NOTED OTHERWISE
- VERT VERTICAL
- WWR WELDED WIRE REINFORCEMENT
- 2. THE FOLLOWING SYMBOLS ARE USED IN THE DRAWINGS:



C. SCOPE OF REPAIRS

TASK	DESCRIPTION		
2.1	CONCRETE TOPPING SLAB REPAIR		
2.2	CONCRETE EDGE TOPPING REPAIR		
2.6	CONCRETE CURB REPLACEMENT		
3.2	TEE STEM REPAIR		
3.2B	TEE STEM REPAIR AT SUPPORT		
3.3	TEE FLANGE REPAIR		
3.5	CONCRETE BEAM REPAIR		
3.7	BEARING PAD REPLACEMENT		
3.8	FLANGE-TO-WALL SHEAR CONNECTOR REPAIR (INCIDENTAL)		
3.9	FLANGE-TO-FLANGE SHEAR CONNECTOR REPAIR (INCIDENTAL		
4.1	CONCRETE WALL REPAIR		
4.3	GROUT POCKET REPAIR		
5.2	CORBEL REPAIR		
7.1	CRACK REPAIR		
7.2	JOINT SEALANT INSTALLATION AT CONSTRUCTION JOINT		
7.3	JOINT SEALANT REPLACEMENT		
7.3A	VERTICAL JOINT SEALANT REPLACEMENT		
7.4	CONSTRUCTION JOINT REPAIR		
7.5	COVE SEALANT INSTALLATION		
7.5C	COVE SEALANT INSTALLATION/REPLACEMENT AT COLUMN		
7.6	EPOXY INJECTION		
7.7	TRAFFIC COATING - NEW SYSTEM		
7.8	TRAFFIC COATING - REPLACEMENT		
7.12	SEAL PIPE PENETRATION		
10.5	CLEAN AND COAT CORRODED STEEL		
12.4	BOLLARD REPAIR		

GENERAL NOTES



Walter P Moore and Associates, Inc. 1301 McKinney Street, Suite 1100 Houston, Texas 77010

713.630.7300

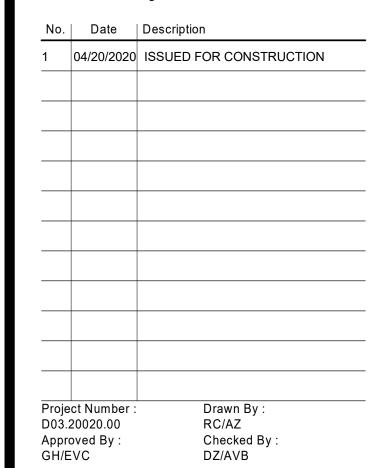
Project Name :

HCCS 3200 MAIN PG HIGH PRIORITY REPAIRS

HOUSTON
COMMUNITY
COLLEGE SYSTEM

Issues/Revision

Project Status



THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

TO THE BEST OF THE ENGINEER'S KNOWLEDGE,

Certification Statement:

Seal and Signature : Walter P. Moore and Associates, Inc. TBPE Firm Registration No. 1856



Copyright (c) 2019 by Walter P. Moore and Associates, Inc.

This document and the information herein is the property of Walter P. Moore and Associates, Inc. No part hereof shall be copied, duplicated, distributed, disclosed or used to any extent whatsoever except as expressly authorized by Walter P. Moore and Associates, Inc. Any person, firm, or corporation receiving this document, however obtained, shall by virtue hereof, be deemed to have agreed to the forgoing restrictions and that this document will be held in trust and confidence subject only to the private use expressly authorized by Walter P. Moore and Associates, Inc.

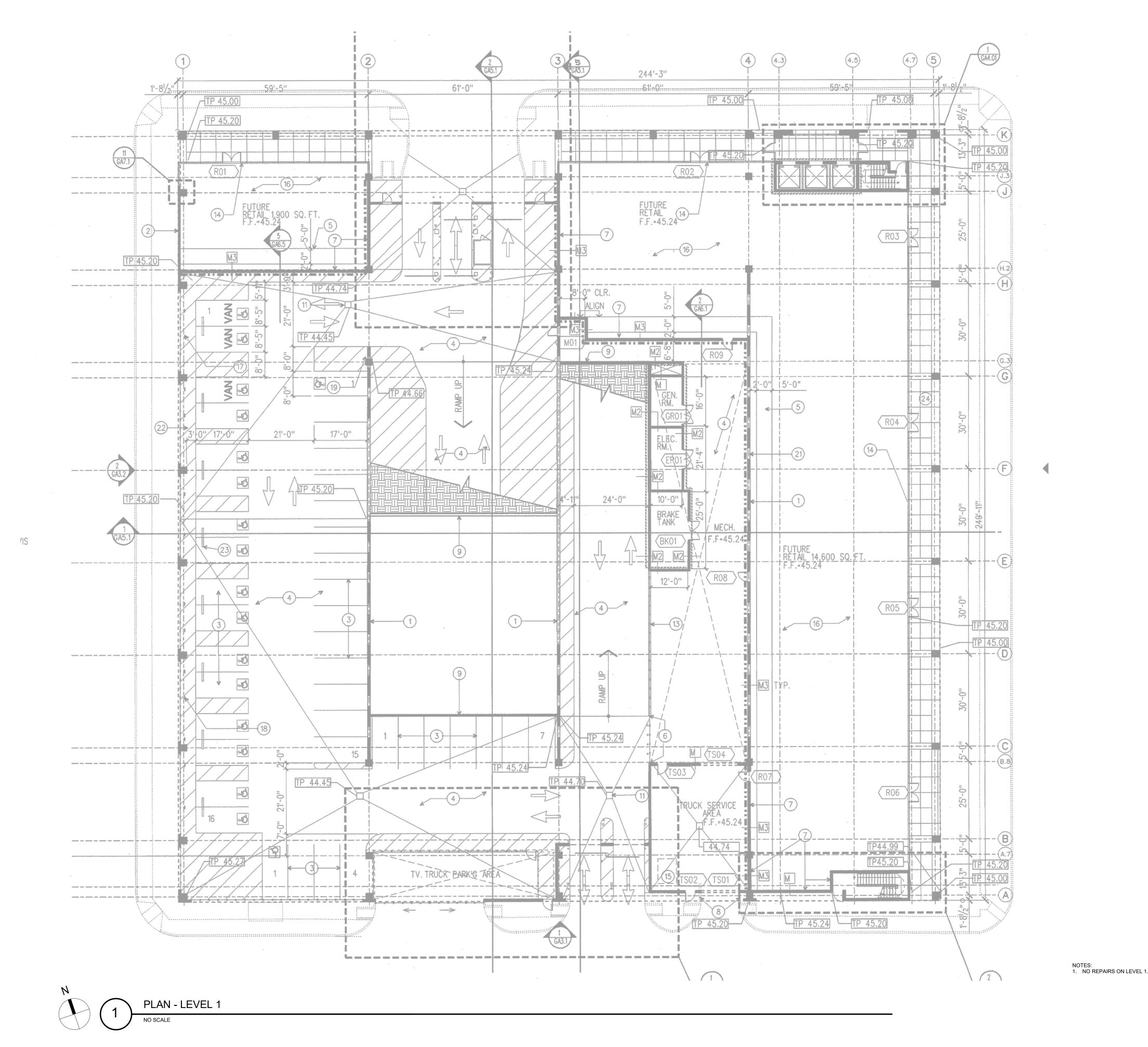
Drawing Title :

GENERAL NOTES

Filename :

Shoot No.:

S0.02





713.630.7300

Duning A Ni

HCCS 3200 MAIN PG HIGH PRIORITY REPAIRS

HOUSTON
COMMUNITY
COLLEGE SYSTEM

кеуріан .

lecues/Povisio

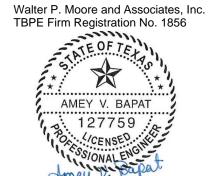
Project Status

No.	Date	Description
1	04/20/2020	ISSUED FOR CONSTRUCTION
	ct Number :	Drawn By :
	20020.00	RC/AZ
Appro	oved By:	Checked By :

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

GH/EVC

Seal and Signature : Walter P. Moore a



DZ/AVB

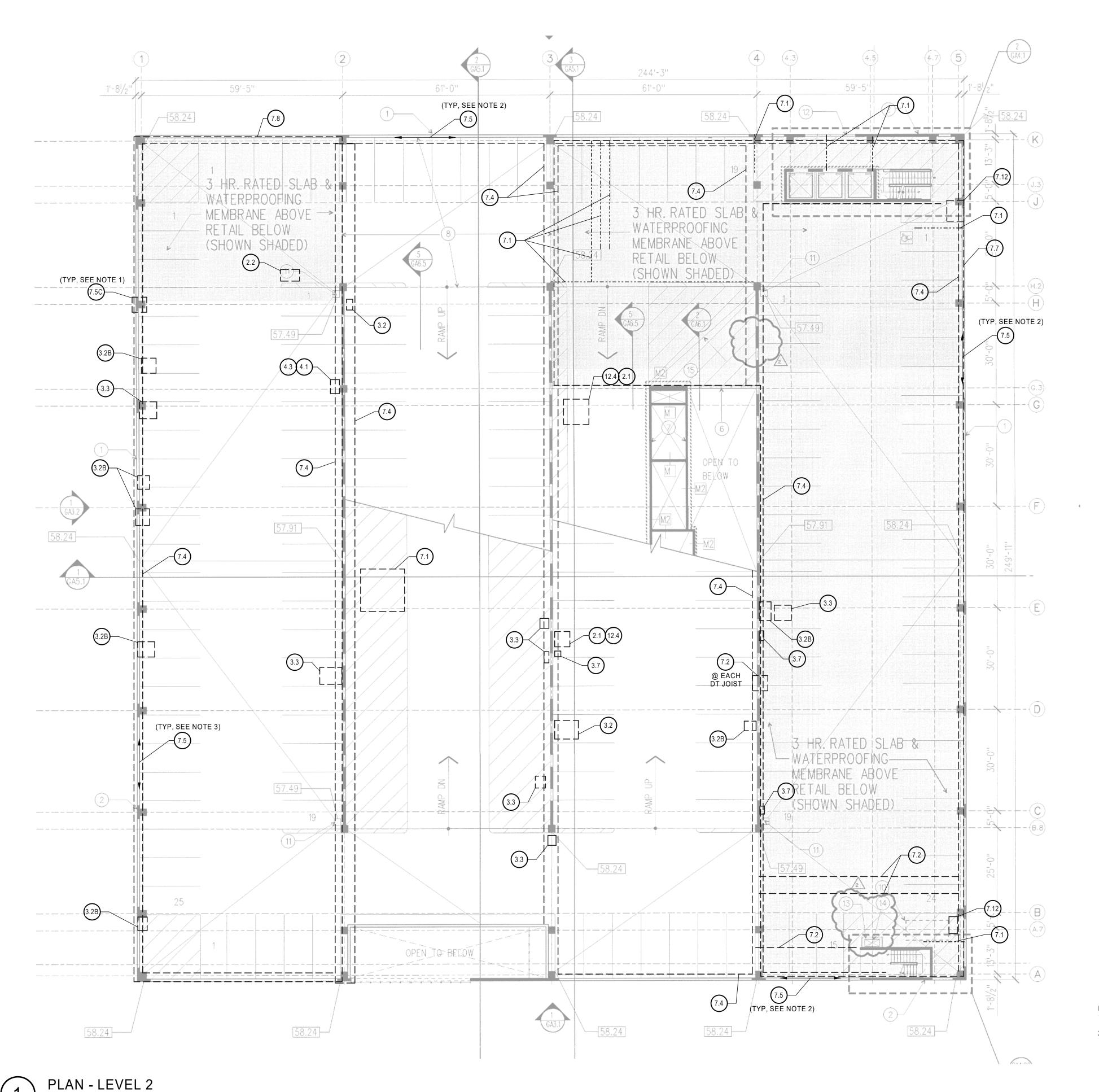
Copyright (c) 2019 by Walter P. Moore and Associates, Inc

This document and the information herein is the property of Walter P. Moore and Associates, Inc. No part hereof shall be copied, duplicated, distributed, disclosed or used to any extent whatsoever except as expressly authorized by Walter P. Moore and Associates, Inc. Any person, firm, or corporation receiving this document, however obtained, shall by virtue hereof, be deemed to have agreed to the forgoing restrictions and that this document will be held in trust and confidence subject only to the private use expressly authorized by Walter P. Moore and Associates, Inc.

Drawing Tit

PLAN - LEVEL 1

Filename



NOTES:

1. PERFORM TASK ITEM 7.5C AT ALL PERIMETER COLUMNS ON THIS LEVEL UNO.

2. PERFORM TASK ITEM 7.5 ALONG PERIMETER ON THIS LEVEL UNO.



Walter P Moore and Associates, Inc. 1301 McKinney Street, Suite 1100 Houston, Texas 77010

713.630.7300

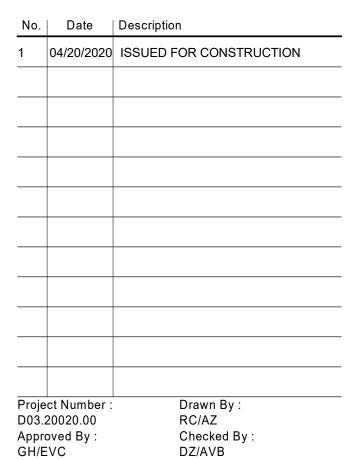
Project Name :

HCCS 3200 MAIN PG HIGH PRIORITY REPAIRS

HOUSTON
COMMUNITY
COLLEGE SYSTEM

Issues/Revis

Project Status



Certification Statement:

TO THE BEST OF THE ENGINEER'S KNOWLEDGE,
THE PLANS AND SPECIFICATIONS COMPLY WITH

THE APPLICABLE MINIMUM BUILDING CODES.



Convright (c) 2019 by Walter P. Moore and Associate

This document and the information herein is the property of Walter P. Moore and Associates, Inc. No part hereof shall be copied, duplicated, distributed, disclosed or used to any extent whatsoever except as expressly authorized by Walter P. Moore and Associates, Inc. Any person, firm, or corporation receiving this document, however obtained, shall by virtue hereof, be deemed to have agreed to the forgoing restrictions and that this document will be held in trust and confidence subject only to the private use expressly authorized by Walter P. Moore and Associates, Inc.

Drawing Title :

PLAN - LEVEL 2

Filename :



713.630.7300

Project Name :

HCCS 3200 MAIN PG HIGH PRIORITY REPAIRS

HOUSTON
COMMUNITY
COLLEGE SYSTEM
Keyplan:

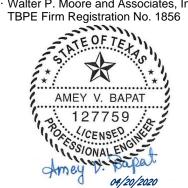
Issues/Revis

Project Status

No.	Date	Description
1	04/20/2020	ISSUED FOR CONSTRUCTION
	ect Number : 20020.00	Drawn By : RC/AZ
	oved By:	Checked By : DZ/AVB

Certification Statement:
TO THE BEST OF THE ENGINEER'S KNOWLEDGE,
THE PLANS AND SPECIFICATIONS COMPLY WITH
THE APPLICABLE MINIMUM BUILDING CODES.

Seal and Signature : Walter P. Moore and Associates, Inc.



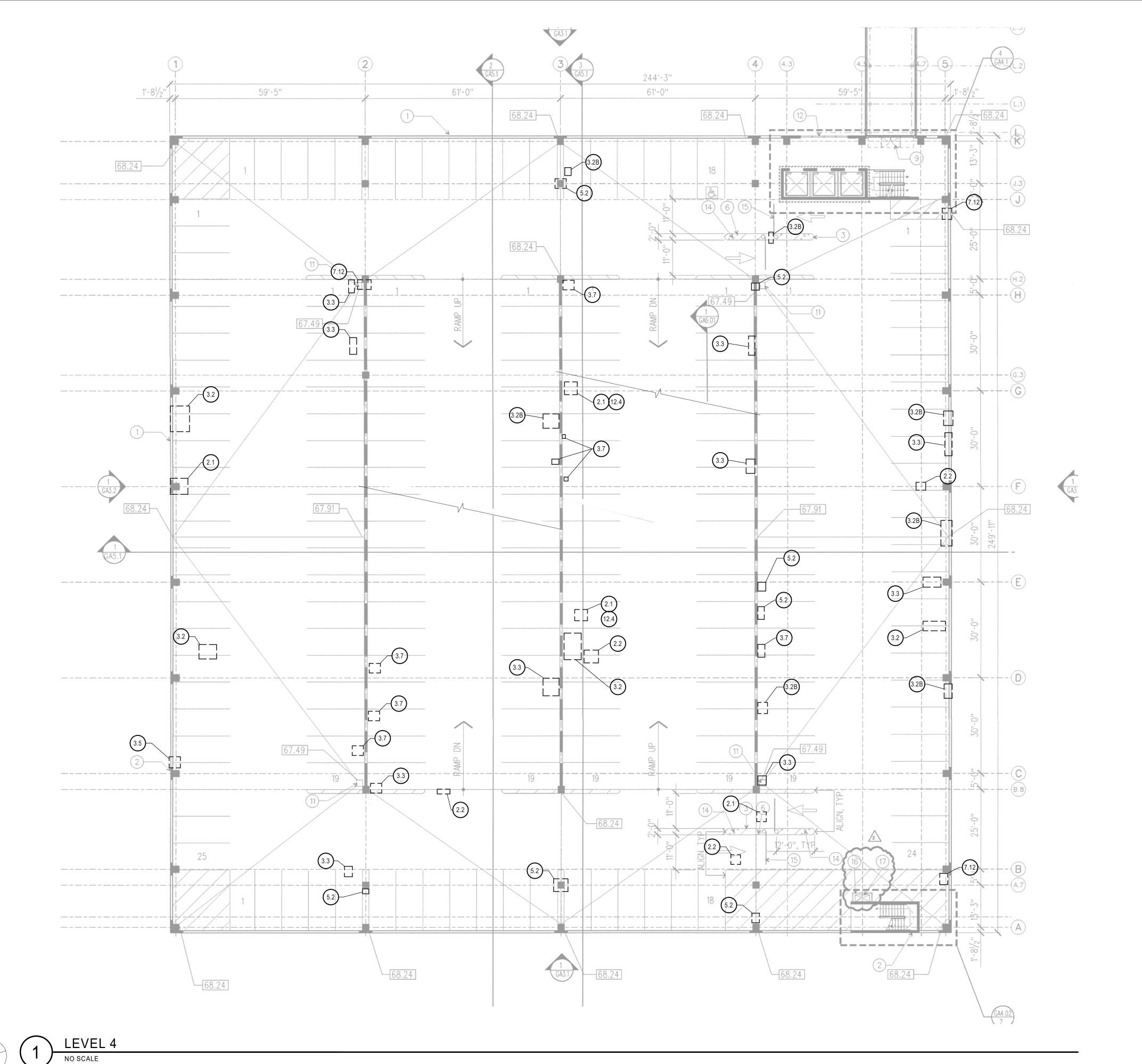
Copyright (c) 2019 by Walter P. Moore and Associate

This document and the information herein is the property of Walter P. Moore and Associates, Inc. No part hereof shall be copied, duplicated, distributed, disclosed or used to any extent whatsoever except as expressly authorized by Walter P. Moore and Associates, Inc. Any person, firm, or corporation receiving this document, however obtained, shall by virtue hereof, be deemed to have agreed to the forgoing restrictions and that this document will be held in trust and confidence subject only to the private use expressly authorized by Walter P. Moore and Associates, Inc.

Drawing T

PLAN - LEVEL 3

Filename :





713.630.7300

Project Name :

HCCS 3200 MAIN PG HIGH PRIORITY REPAIRS

HOUSTON
COMMUNITY
COLLEGE SYSTEM
Keyplan:

Issues/Revision

Project Status

No.	Date	Description
1	04/20/2020	ISSUED FOR CONSTRUCTION
D03.	ect Number : 20020.00	RC/AZ
Approved By : GH/EVC		Checked By : DZ/AVB

Certification Statement:

TO THE BEST OF THE ENGINEER'S KNOWLEDGE,
THE PLANS AND SPECIFICATIONS COMPLY WITH
THE APPLICABLE MINIMUM BUILDING CODES.

Seal and Signature : Walter P. Moore and Associates, Inc.



Copyright (c) 2019 by Walter P. Moore and Associate

This document and the information herein is the property of Walter P. Moore and Associates, Inc. No part hereof shall be copied, duplicated, distributed, disclosed or used to any extent whatsoever except as expressly authorized by Walter P. Moore and Associates, Inc. Any person, firm, or corporation receiving this document, however obtained, shall by virtue hereof, be deemed to have agreed to the forgoing restrictions and that this document will be held in trust and confidence subject only to the private use expressly authorized by Walter P. Moore and Associates, Inc.

Drawing I

PLAN - LEVEL 4

Filename :

59'-5"

61'-0"

1)—

68.24

244'-3"

61'-0"

68.24

59'-5



Walter P Moore and Associates, Inc. 1301 McKinney Street, Suite 1100 Houston, Texas 77010

713.630.7300

Project Name :

HCCS 3200 MAIN PG HIGH PRIORITY REPAIRS

HOUSTON
COMMUNITY
COLLEGE SYSTEM
Keyplan:

Issues/Revision

Project Status

No.	Date	Description
1	04/20/2020	ISSUED FOR CONSTRUCTION
	ct Number : 20020.00	Drawn By : RC/AZ
Appr GH/E	oved By : EVC	Checked By : DZ/AVB

Certification Statement:
TO THE BEST OF THE ENGINEER'S KNOWLEDGE,
THE PLANS AND SPECIFICATIONS COMPLY WITH
THE APPLICABLE MINIMUM BUILDING CODES.

Seal and Signature : Walter P. Moore and Associates, Inc.



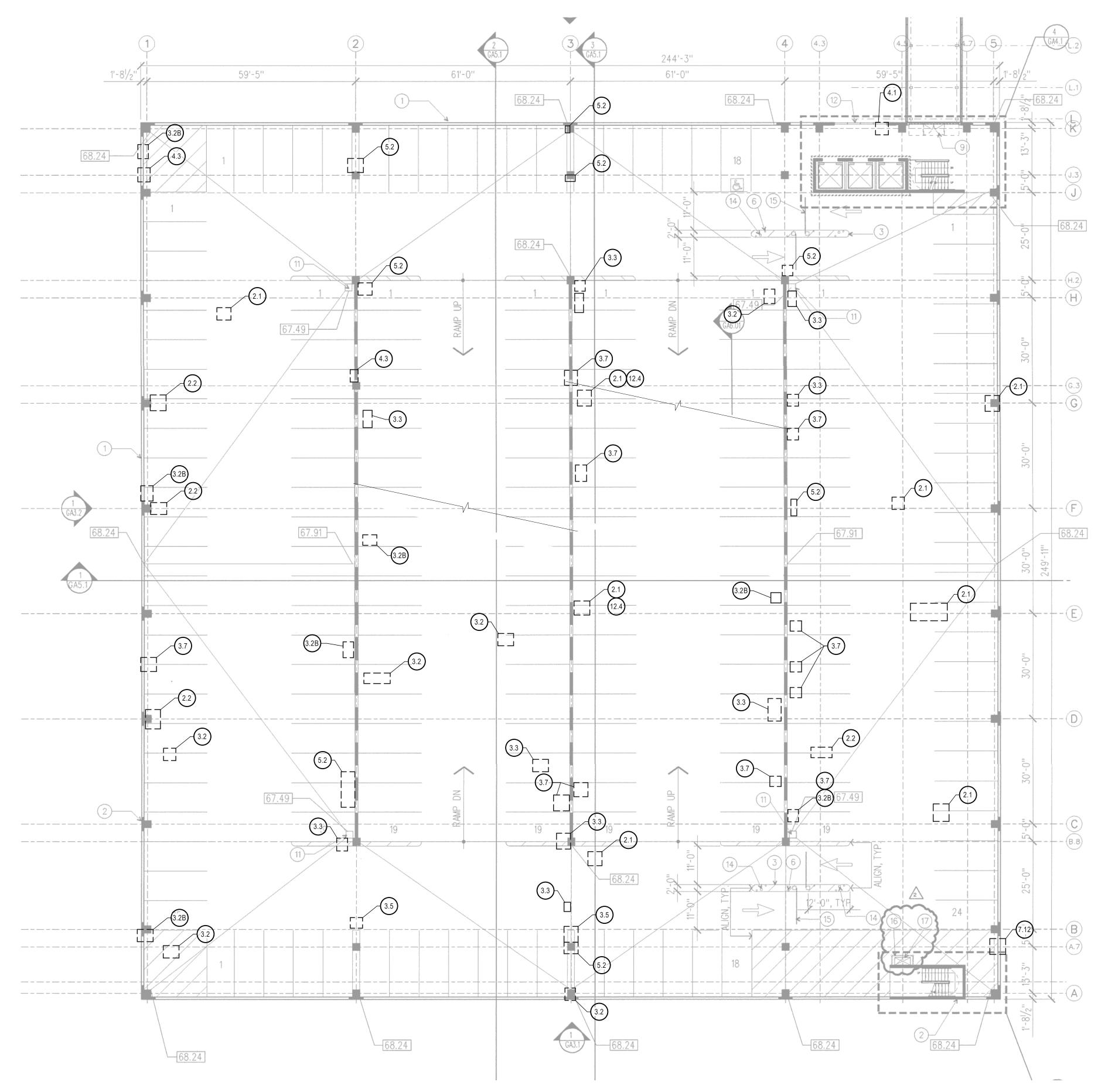
Copyright (c) 2019 by Walter P. Moore and Associates, Inc.

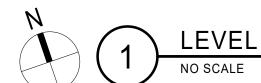
This document and the information herein is the property of Walter P. Moore and Associates, Inc. No part hereof shall be copied, duplicated, distributed, disclosed or used to any extent whatsoever except as expressly authorized by Walter P. Moore and Associates, Inc. Any person, firm, or corporation receiving this document, however obtained, shall by virtue hereof, be deemed to have agreed to the forgoing restrictions and that this document will be held in trust and confidence subject only to the private use expressly authorized by Walter P. Moore and Associates, Inc.

Drawing T

PLAN - LEVEL 5

Filename :







713.630.7300

Project Name :

HCCS 3200 MAIN PG HIGH PRIORITY REPAIRS

HOUSTON
COMMUNITY
COLLEGE SYSTEM
Keyplan:

Issues/Revis

Project Status

No.	Date	Description
1	04/20/2020	ISSUED FOR CONSTRUCTION
D03.	ct Number : 20020.00 oved By :	Drawn By : RC/AZ Checked By :

Certification Statement:
TO THE BEST OF THE ENGINEER'S KNOWLEDGE,
THE PLANS AND SPECIFICATIONS COMPLY WITH
THE APPLICABLE MINIMUM BUILDING CODES.

Seal and Signature : Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



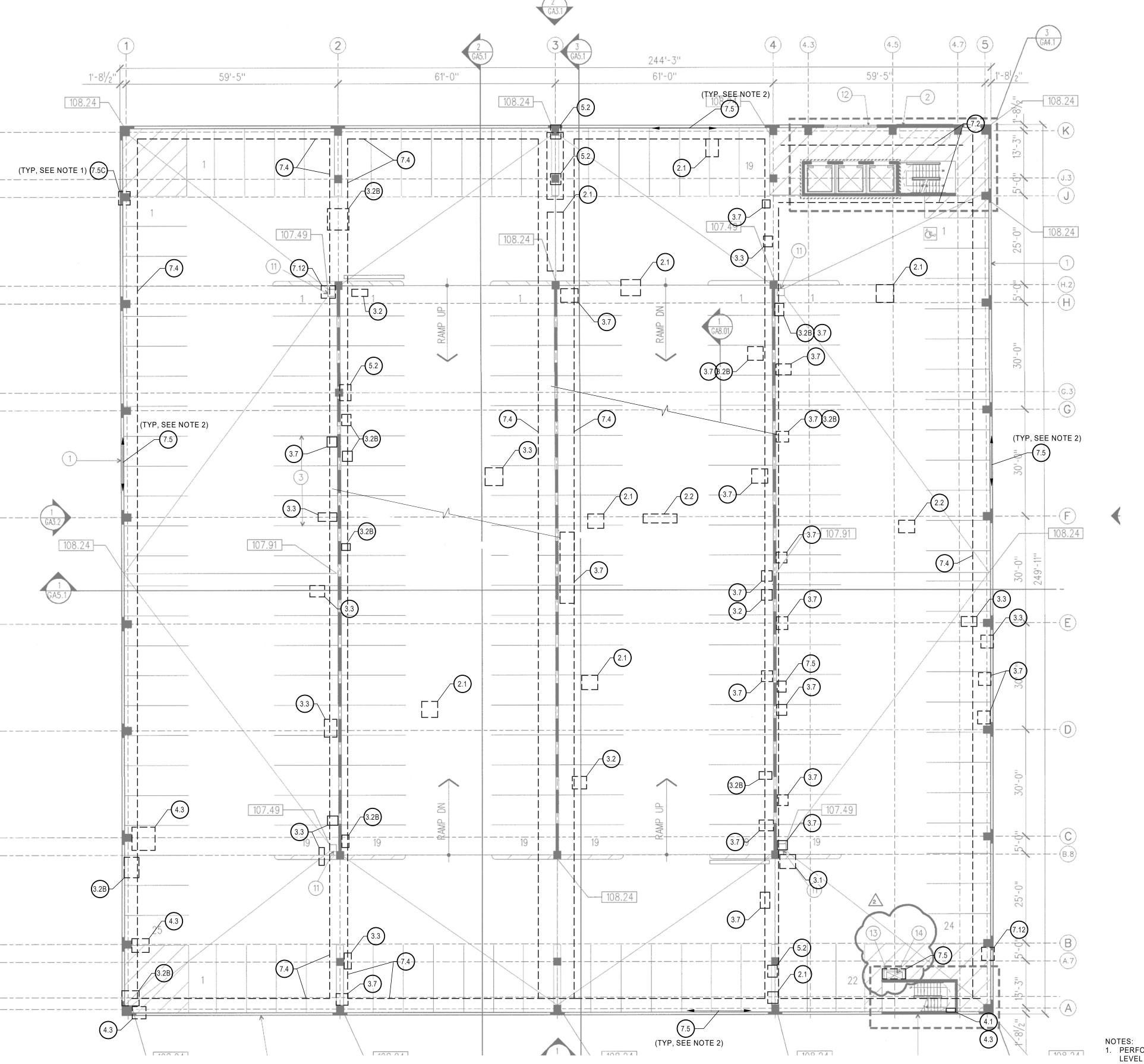
Copyright (c) 2019 by Walter P. Moore and Associates, Inc.

This document and the information herein is the property of Walter P. Moore and Associates, Inc. No part hereof shall be copied, duplicated, distributed, disclosed or used to any extent whatsoever except as expressly authorized by Walter P. Moore and Associates, Inc. Any person, firm, or corporation receiving this document, however obtained, shall by virtue hereof, be deemed to have agreed to the forgoing restrictions and that this document will be held in trust and confidence subject only to the private use expressly authorized by Walter P. Moore and Associates, Inc.

Drawing T

PLAN - LEVEL 6

Filename :



PERFORM TASK ITEM 7.5C AT ALL PERIMETER COLUMNS ON THIS LEVEL UNO.
 PERFORM TASK ITEM 7.5 ALONG PERIMETER ON THIS LEVEL UNO.



Walter P Moore and Associates, Inc. 1301 McKinney Street, Suite 1100 Houston, Texas 77010

713.630.7300

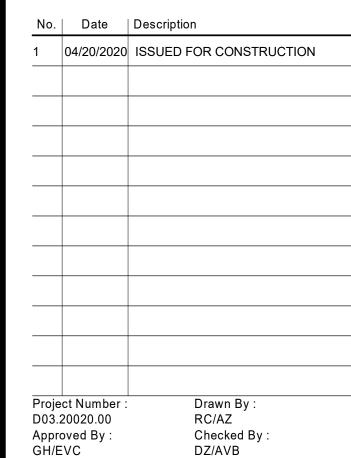
Project Name :

HCCS 3200 MAIN PG HIGH PRIORITY REPAIRS

HOUSTON
COMMUNITY
COLLEGE SYSTEM
Keyplan:

Issues/Revis

Project Status



Certification Statement:
TO THE BEST OF THE ENGINEER'S KNOWLEDGE,
THE PLANS AND SPECIFICATIONS COMPLY WITH
THE APPLICABLE MINIMUM BUILDING CODES.

Seal and Signature : Walter P. Moore and Associates, Inc.



Copyright (c) 2019 by Walter P. Moore and Associa

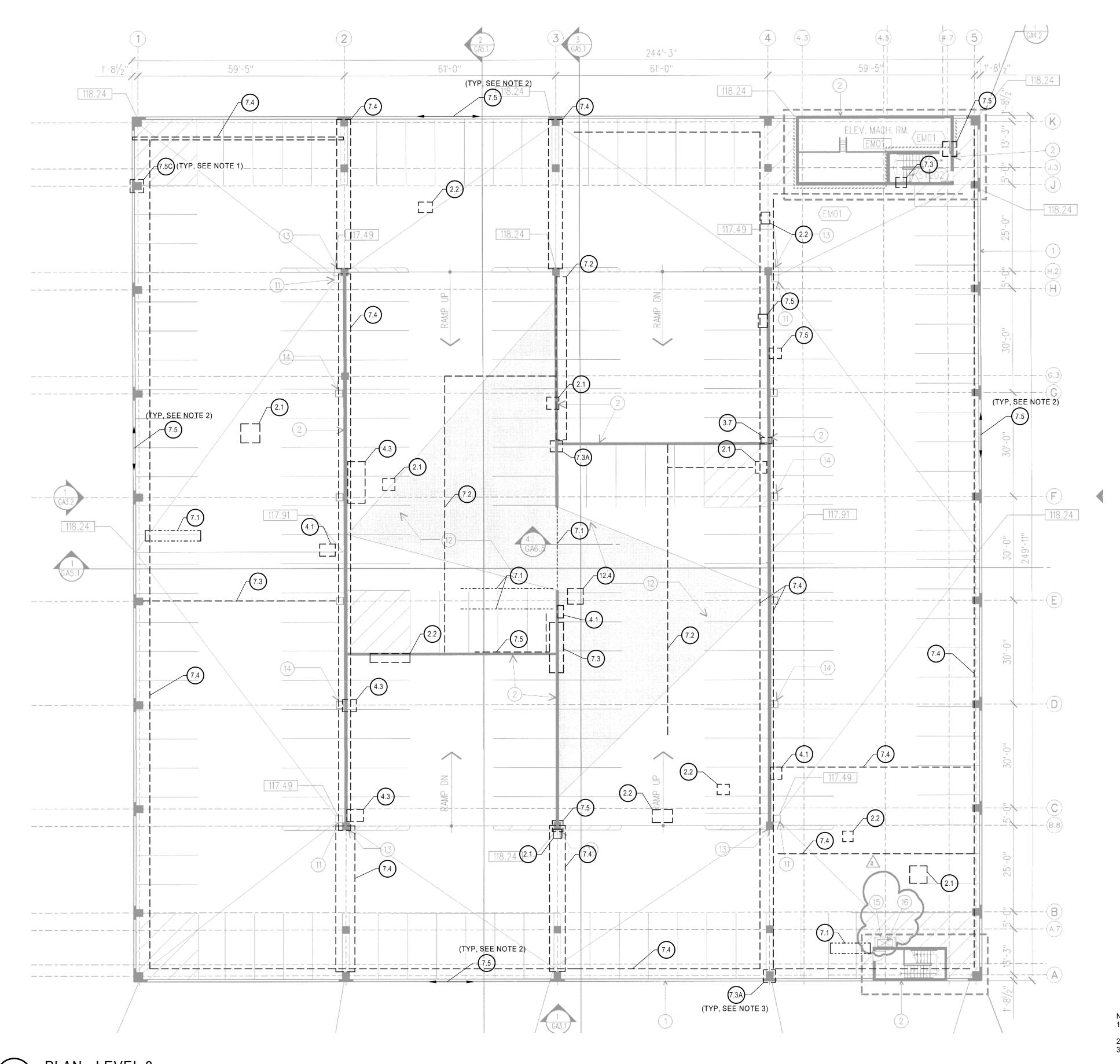
This document and the information herein is the property of Walter P. Moore and Associates, Inc. No part hereof shall be copied, duplicated, distributed, disclosed or used to any extent whatsoever except as expressly authorized by Walter P. Moore and Associates, Inc. Any person, firm, or corporation receiving this document, however obtained, shall by virtue hereof, be deemed to have agreed to the forgoing restrictions and that this document will be held in trust and confidence subject only to the private use expressly authorized by Walter P. Moore and Associates, Inc.

Drawing Title :

PLAN - LEVEL 7

Filename :





S: ERFORM TASK ITEM 7.50 AT ALL PERIMETER COLLIMNS ON THI

PERFORM TASK ITEM 7.5C AT ALL PERIMETER COLUMNS ON THIS LEVEL UNO.
 PERFORM TASK ITEM 7.5 ALONG PERIMETER ON THIS LEVEL UNO.
 PERFORM TASK ITEM 7.3A ALONG PERIMETER ON THIS LEVEL UNO.

walter p moore

Walter P Moore and Associates, Inc. 1301 McKinney Street, Suite 1100 Houston, Texas 77010

713.630.7300

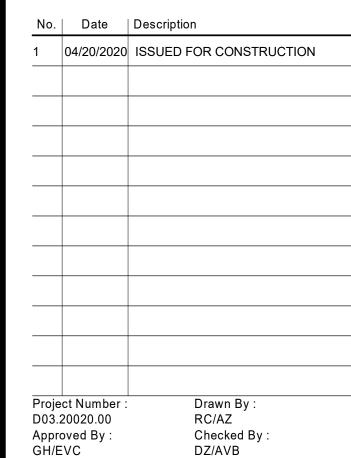
Project Name :

HCCS 3200 MAIN PG HIGH PRIORITY REPAIRS

HOUSTON
COMMUNITY
COLLEGE SYSTEM
Keyplan:

Issues/Revision

Project Status



Certification Statement:
TO THE BEST OF THE ENGINEER'S KNOWLEDGE,
THE PLANS AND SPECIFICATIONS COMPLY WITH
THE APPLICABLE MINIMUM BUILDING CODES.

Seal and Signature : Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



Copyright (c) 2019 by Walter P. Moore and Associate

This document and the information herein is the property of Walter P. Moore and Associates, Inc. No part hereof shall be copied, duplicated, distributed, disclosed or used to any extent whatsoever except as expressly authorized by Walter P. Moore and Associates, Inc. Any person, firm, or corporation receiving this document, however obtained, shall by virtue hereof, be deemed to have agreed to the forgoing restrictions and that this document will be held in trust and confidence subject only to the private use expressly authorized by Walter P. Moore and Associates, Inc.

Drawing Title

PLAN - LEVEL 8

Filename :

PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING. GRINDING OR SAW CUTTING FOR SPALL/DELAMINATION REPAIR.

REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT.

PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE REINFORCEMENT THAT IS EXPOSED DURING SURFACE PREPARATION IS FOUND TO BE SEVERELY CORRODED OR HAS LOST 10% OR MORE OF ITS CROSS SECTIONAL AREA, SUPPLEMENTARY REINFORCEMENT MAY BE REQUIRED. REPORT TO ENGINEER FOR

REVIEW AND DESIGN OF SUPPLEMENTARY REINFORCEMENT. NEW PATCH SHALL MATCH EXISTING FINISH.

CHIP, GRIND OR SAW CUT

LEAST 1/2" BEYOND THE

TO SOUND CONCRETE

TO SURFACE (TYP)

PATCH PERIMETER FOR AT

SPALL/DELAMINATION OR UP

GRINDING OR SAW CUTTING

SHALL BE PERPENDICULAR

ORIGINAL CURB SURFACE

1. PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING OR SAW CUTTING FOR SPALL/DELAMINATION REPAIR.

VARIES

REMOVE CONCRETE

EXIST REINFORCEMENT

DELAMINATION (TYP)

REMOVAL LIMITS

EXIST CONC SLAB

WITHIN SHADED

SPALL OR

SECTION SHOWN

2. REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT.

3. PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE REQUIRED AS SPECIFIED IN SECTION "SURFACE PREPARATION FOR PATCHING."

4. WHERE REINFORCEMENT THAT IS EXPOSED DURING SURFACE PREPARATION IS FOUND TO BE SEVERELY CORRODED OR HAS LOST 10% OR MORE OF ITS CROSS SECTIONAL AREA, SUPPLEMENTARY REINFORCEMENT MAY BE REQUIRED. REPORT TO ENGINEER FOR REVIEW AND DESIGN OF SUPPLEMENTARY REINFORCEMENT

5. NEW PATCH SHALL MATCH EXISTING FINISH. PAINT PATCH TO MATCH EXISTING COLOR

CHIP, GRIND OR SAWCUT AROUND

UP TO SOUND CONCRETE. INITIAL

PATCH PERIMETER FOR AT LEAST 1/2"

BEYOND THE SPALL/DELAMINATION OR

GRINDING OR SAW CUTTING SHALL BE

ROUGHEN EXISTING

CONCRETE SURFACE

TO CSP 9. REFER TO

SPECIFICATIONS

REMOVAL LIMITS

TOP OF PRECAST

TEE FLANGE

PERPENDICULAR TO SURFACE (TYP)

1. PROTECT EXISTING WWR OR REINFORCEMENT FROM DAMAGE DURING CHIPPING

GRINDING OR SAWCUTTING. 2. REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" FOR CLEANING AND

VARIES

8" MIN

SPALL/

DELAMINATION

COATING ALL EXPOSED REINFORCEMENT. 3. PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE

REQUIRED AS SPECIFIED IN SECTION "SURFACE PREPARATION FOR PATCHING." 4. WHERE REINFORCEMENT THAT IS EXPOSED DURING SURFACE PREPARATION IS FOUND TO BE SEVERELY CORRODED OR HAS LOST 10% OR MORE OF ITS CROSS SECTIONAL AREA, SUPPLEMENTARY REINFORCEMENT MAY BE REQUIRED. REPORT TO ENGINEER FOR REVIEW AND DESIGN OF SUPPLEMENTARY REINFORCEMENT.

5. TERM "REINFORCEMENT" SHALL MEAN REINFORCING BARS OR WELDED WIRE FABRIC (WWR).

6. NEW PATCH SHALL MATCH EXISTING FINISH.

PRECAST MEMBER

CHIP, GRIND OR SAW CUT

AROUND PATCH PERIMETER

FOR AT LEAST 1/2" BEYOND

UP TO SOUND CONCRETE.

GRINDING OR SAW CUTTING

TOOL JOINT. SEE

REINFORCEMENT

LOCATIONS APPROXIMATE

SLAB

FLANGE

REMOVE CONCRETE WITHIN

SHADED SECTION SHOWN

EXPOSED FELT TO BE

REMOVED (IF IN PLACE)

CONCRETE

PRECAST TEE

TOPPING

TYPICAL DETAIL

WWR OR

SHALL BE PERPENDICULAR

TO SURFACE (TYP)

THE SPALL/DELAMINATION OR

1. PROTECT EXISTING WWR OR REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING OR SAWCUTTING

VARIES

A A A A

2. REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT.

PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE REQUIRED AS

SPECIFIED IN SECTION "SURFACE PREPARATION FOR PATCHING." 4. WHERE REINFORCEMENT THAT IS EXPOSED DURING SURFACE PREPARATION IS FOUND TO BE SEVERELY CORRODED OR HAS LOST 10% OR MORE OF ITS CROSS SECTIONAL AREA, SUPPLEMENTARY REINFORCEMENT MAY BE REQUIRED. REPORT TO ENGINEER FOR REVIEW

NEW PATCH SHALL MATCH EXISTING FINISH. TERM "REINFORCEMENT" SHALL MEAN REINFORCING BARS OR WELDED WIRE REINFORCEMENT (WWR).

AND DESIGN OF SUPPLEMENTARY REINFORCEMENT.

TYPICAL - TEE STEM REPAIR

SPALL OR DELAMINATION (TYP.)

SURFACE (TYP.)

REMOVAL LIMITS (TYP.)

ROUGHEN EXISTING CONCRETE SURFACE

TO CSP 9. REFER TO

SPECIFICATIONS

SEE (NOTE 4) BELOW

GRIND, CHIP, OR SAW CUT

AROUND PATCH PERIMETER

TO AT LEAST 1/2" BEYOND THE

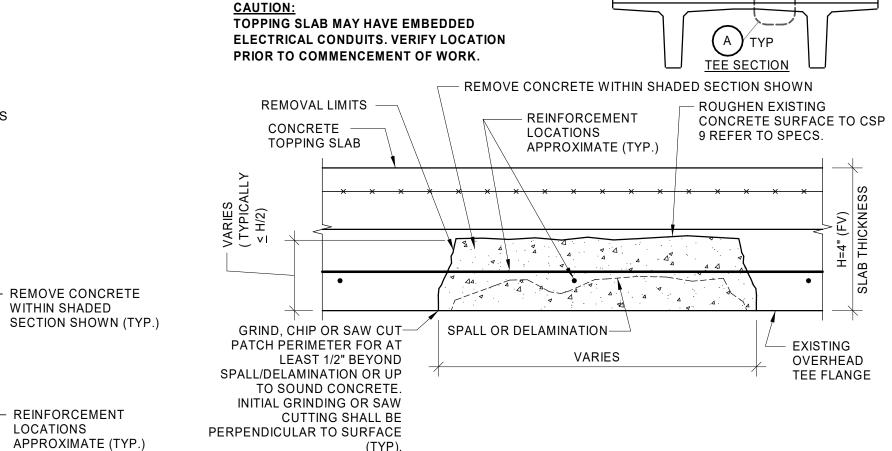
TO SOUND CONCRETE. INITIAL **GRINDING OR SAW CUTTING** SHALL BE PERPENDICULAR TO

CORNER PROFILE TO MATCH

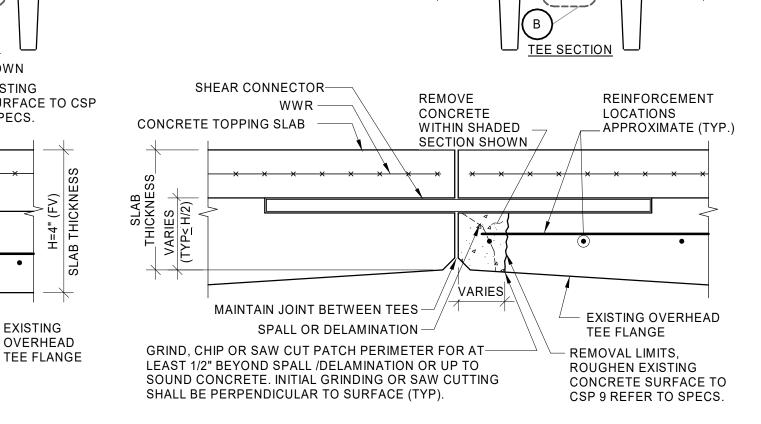
EXISTING CONDITION

SPALL/DELAMINATION OR UP

TYPICAL - CONCRETE EDGE TOPPING REPAIR



TEE FLANGE SECTION



TEE FLANGE SECTION (AT DOUBLE-TEE SHEAR TRANSFER JOINT)

PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING OR SAW CUTTING FOR SPALL/DELAMINATION REPAIR REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" SPECIFICATIONS FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE REQUIRED AS SPECIFIED IN SECTION "SURFACE PREPARATION FOR PATCHING." WHERE REINFORCEMENT THAT IS EXPOSED DURING SURFACE PREPARATION IS FOUND TO BE SEVERELY CORRODED OR HAS LOST 10% OR MORE OF ITS CROSS. SECTIONAL AREA,

EXISTING

OVERHEAD

SUPPLEMENTARY REINFORCEMENT MAY BE REQUIRED. REPORT TO ENGINEER FOR REVIEW AND DESIGN OF SUPPLEMENTARY REINFORCEMENT. REPORT TO ENGINEER IF TEE FLANGE SHEAR CONNECTOR IS BROKEN OR SEVERELY CORRODED FOR REVIEW AND DESIGN OF SUPPLEMENTARY CONNECTION.

NEW PATCH SHALL MATCH EXISTING FINISH.

TEE STEM REPAIR AT SUPPORT SEE DETAIL SHORE POST 3.2 FOR ADDITIONAL (SEE NOTE 1) INFORMATION

FOR TEE STEM REPAIR AT SUPPORT, SHORE THE BEAM PRIOR TO BEGINNING WORK. SHORING SHALL BE DESIGNED FOR A TOTAL SERVICE UNFACTORED DEAD LOAD OF 95 PSF AND SERVICE UNFACTORED LIVE LOAD OF 40 PSF.

SEE NOTES IN DETAIL 3.2 FOR ADDITIONAL INFORMATION.

TYPICAL - TEE STEM REPAIR AT SUPPORT

NOTES:

1. PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING OR SAW CUTTING FOR SPALL/DELAMINATION REPAIR. 2. REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" FOR CLEANING AND COATING

VARIES (A)

VARIES

WIDTH OF

EXISTING BEAM

FIELD VERIFY

ALL EXPOSED REINFORCEMENT. 3. PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE REQUIRED AS SPECIFIED IN SECTION "SURFACE PREPARATION FOR PATCHING."

4. WHERE DIMENSION "A" SHOWN IN DETAIL IS 4" OR LESS, THEN REPAIR ENTIRE WIDTH OF

5. WHERE REINFORCEMENT THAT IS EXPOSED DURING SURFACE PREPARATION IS FOUND TO BE SEVERELY CORRODED OR HAS LOST 10% OR MORE OF ITS CROSS SECTIONAL AREA, SUPPLEMENTARY REINFORCEMENT MAY BE REQUIRED. REPORT TO ENGINEER FOR REVIEW AND DESIGN OF SUPPLEMENTARY REINFORCEMENT.

TYPICAL - CONCRETE BEAM REPAIR

YPICAL - TEE FLANGE REPAIR

REMOVE CONCRETE WITHIN SHADED

REINFORCEMENT

LOCATIONS

DETAILS

by Walter P. Moore and Associates, Inc.

My walter

Walter P Moore and Associates, Inc.

HCCS 3200 MAIN PG

HIGH PRIORITY

REPAIRS

HOUSTON

COMMUNITY

COLLEGE SYSTEM

Project Status

04/20/2020 ISSUED FOR CONSTRUCTION

Drawn By:

Checked By:

TBPE Firm Registration No. 1856

次

AMEY V. BAPAT

RC/AZ

DZ/AVB

TO THE BEST OF THE ENGINEER'S KNOWLEDGE,

THE PLANS AND SPECIFICATIONS COMPLY WITH

Seal and Signature: Walter P. Moore and Associates, Inc.

Copyright (c) 2019 by Walter P. Moore and Associates, Inc

This document and the information herein is the property of Walter P.

except as expressly authorized by Walter P. Moore and Associates,

Inc. Any person, firm, or corporation receiving this document, however obtained, shall by virtue hereof, be deemed to have agreed to the forgoing restrictions and that this document will be held in trust and confidence subject only to the private use expressly authorized

Moore and Associates, Inc. No part hereof shall be copied. duplicated, distributed, disclosed or used to any extent whatsoever

THE APPLICABLE MINIMUM BUILDING CODES.

1301 McKinney Street, Suite 1100

Houston, Texas 77010

713.630.7300

Project Name:

Client:

Issues/Revisions

Project Number

Certification Statement

D03.20020.00

Approved By

GH/EVC

No. | Date | Description

REINFORCEMENT

APPROXIMATE (TYP)

ORIGINAL SURFACE

LOCATIONS

CONCRETE

SPALL OR

REFER TO

DELAMINATION

SURFACE CSP 9.

SPECIFICATIONS.

REMOVAL LIMITS

ROUGHEN CONCRETE

REMOVE CONCRETE WITHIN

SHADED SECTION SHOWN

TOPPING SLAB

Filename

Drawing Title:

ROUT CRACK WITH CRACK

ROUTER OR OTHER SIMILAR

TOOL AND FILL WITH SEALANT

INSTALL SEALANT EVENLY AND

RECESS 1/16" BELOW SURFACE

REQUIREMENTS)

(SEE NOTES BELOW FOR OTHER

COMMENCEMENT OF WORK.

CONCRETE SURFACE.

3. DO NOT OVERFILL THE ROUTED CAVITY.

EXISTING CRACK

... REMOVE EXISTING JOINT SEALANT MATERIAL IF PRESENT.

RESIDUAL MATERIALS, DUST AND CONTAMINANTS.

- 1. PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING OR SAW CUTTING FOR SPALL/DELAMINATION REPAIR.
- 2. REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT.
- 3. PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE REQUIRED AS SPECIFIED IN SECTION "SURFACE PREPARATION FOR PATCHING."
- WHERE REINFORCEMENT THAT IS EXPOSED DURING SURFACE PREPARATION IS FOUND TO BE SEVERELY CORRODED OR HAS LOST 10% OR MORE OF ITS CROSS SECTIONAL AREA, SUPPLEMENTARY REINFORCEMENT MAY BE REQUIRED. REPORT TO ENGINEER FOR REVIEW
- AND DESIGN OF SUPPLEMENTARY REINFORCEMENT. 5. PROVIDE SHORING AS SPECIFIED BY ENGINEER PRIOR TO COMMENCEMENT OF ANY CONCRETE REMOVAL WORK.

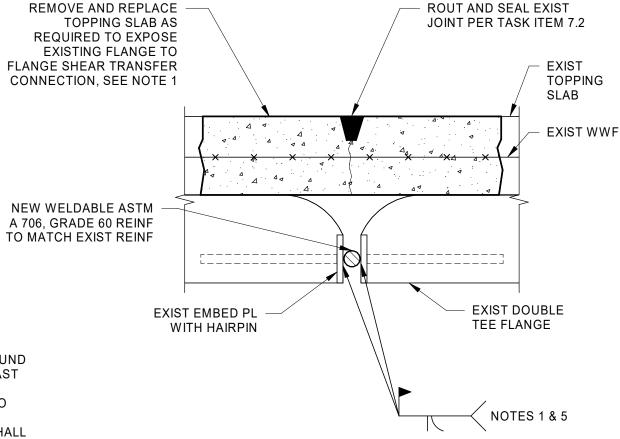
TYPICAL - CONCRETE WALL REPAIR

1/2" OR SIZE OF EXISTING ROUTED

CRACK PREVIOUSLY SEALED

- EXISTING SLAB

6. NEW PATCH SHALL MATCH EXISTING FINISH



- 1. WHENEVER POSSIBLE, PERFORM REPAIR OF WELDED CONNECTION FROM THE UNDERSIDE OF THE DOUBLE-TEE. IF OVERHEAD WELD REPAIRS AT FLANGE TO FLANGE SHEAR TRANSFER CONNECTION ARE NOT POSSIBLE, CONTRACTOR SHALL REMOVE TOPPING SLAB AT EXISTING DOUBLE-TEE FLANGE TO FLANGE SHEAR TRANSFER CONNECTION TO ALLOW ACCESS TO PERFORM WELD REPAIRS, DO NOT DAMAGE EXISTING EMBED CONNECTORS DURING CONCRETE REMOVAL OPERATIONS.
- 2. CONTRACTOR SHALL RECONNECT THE EXISTING EMBEDMENT PLATE AND EXISTING REBAR.
- 3. IF TOPPING SLAB REMOVAL IS PERFORMED, CONTRACTOR SHALL PATCH TOPPING SLAB IN ACCORDANCE WITH THE REQUIREMENTS OF TASK ITEM 2.2 AND REPAIR DAMAGED JOINT SEALANTS IN ACCORDANCE WITH TASK ITEMS 7.3.
- THIS TASK ITEM IS INCIDENTAL TO TASK ITEM 3.7.
- PROVIDE MAXIMUM WELD SIZE PER AISC.

REPLACE BOTH BEARING PADS WITH NEW ELASTOMERIC PADS (3/8" THICK MIN) EPOXY BONDED TO THE SOFFIT - CONTRACTOR SHALL LIFT DOUBLE-TEE END FOR OF THE DOUBLE-TEE STEMS. ELASTOMERIC PAD EXIST WALL POCKET REPLACEMENTS. SEE NOTES 1 - 2. **EXIST DOUBLE-**TEE BEAM STEM PROVIDE SHORING UNDER EACH DOUBLE-TEE STEM, SEE NOTES 3 - 7. - EXIST PRECAST WALL WITH CORBEL. PRECAST GIRDER LEDGE AT OTHER LOCATIONS.

- 1. PRIOR TO LIFTING DOUBLE-TEE, TEMPORARILY CLOSE THE PARKING AREA (STALLS AND DRIVE LANE) ON THE DOUBLE TEE TO BE LIFTED FOR BEARING PAD REPLACEMENT AND THE ADJACENT DOUBLE TEE ON EITHER SIDE
- 2. CONTRACTOR SHALL REVIEW AND DOCUMENT THE EXISTING STRUCTURE FOR DISTRESS PRIOR TO AND AFTER BEARING PAD REPLACEMENT TO IDENTIFY INCIDENTAL REPAIR NEEDS CAUSED BY THE LIFTING PROCESS. T.I. 2.2, 3.2, 3.3, 7.1, 7.3, 7.3A, 7.5, 7.6, 3.8, AND 3.9 ARE INCIDENTAL TO T.I. 3.7.
- 3. PROVIDE TEMPORARY SHORING TO LIFT THE TWO STEM ENDS FOR EACH DOUBLE-TEE INDICATED TO HAVE BEARING PAD REPLACEMENT.
- 4. SHORING SHALL HAVE AN ALLOWABLE LOAD RATING OF 20,000 POUNDS PER STEM WHEN INSTALLED AND SHALL BE VERTICALLY ALIGNED AND SUPPORTED BY THE DOUBLE-TEE STEMS OF THE TWO LEVELS IMMEDIATELY BELOW THE DOUBLE-TEE WHERE THE BEARING PAD REPLACEMENTS ARE TO TAKE PLACE.
- 5. THE SPECIFIED SHORING CAPACITY INCLUDES AN ALLOWANCE OF 20 POUNDS PER SQUARE FOOT (PSF) FOR CONSTRUCTION LIVE LOAD ON LEVEL
- 6. CONTRACTOR SHALL ASSURE THAT CONSTRUCTION LOADS WITHIN THE CLOSURE AREAS ON LEVEL ABOVE DO NOT EXCEED 20 PSF WHILE SHORING IS IN PLACE.
- 7. CONTRACTOR SHALL NOTIFY ENGINEER AND PROVIDE PHOTOGRAPHIC DOCUMENTATION IF LIFTING PROCESS RESULTS IN DISTRESS IN DOUBLE TEE, AT PRECAST CONNECTIONS.

BEARING PAD REPLACEMENT

FLANGE-TO-WALL CONNECTOR REPAIR (INCIDENTAL)

PROVIDE COVE SEALANT PER

REINSTALL CONNECTOR PL, CENTERED

ON EXIST FLANGE EMBED, SEE NOTE 2

REMOVE AND REPLACE TOPPING SLAB

TOPPING

SLAB

EXIST

DOUBLE-TEE

FLANGE, TYP

AS REQD TO EXPOSE EXIST FLANGE

CONNECTOR PLATES, REF TO TASK

ITEM 2.2 FOR REQUIREMENTS.

└─ EXIST WWF

EXIST FLANGE

EMBED PL

CONTRACTOR SHALL REMOVE TOPPING SLAB AT EXISTING DOUBLE-TEE

FLANGE TO WALL CONNECTORS TO ALLOW ACCESS TO PERFORM WELD

WALL EMBED PLATES. DO NOT DAMAGE EXISTING EMBED CONNECTORS

2. CONTRACTOR SHALL PATCH TOPPING SLAB AFTER REPAIRING THE

DURING CONCRETE REMOVAL OPERATIONS

3. THIS TASK ITEM IS INCIDENTAL TO TASK ITEM 3.7.

7.3, 7.3A AND 7.5.

REPAIRS OF THE EXISTING CONNECTOR PLATE TO THE EXISTING FLANGE AND

CONNECTION IN ACCORDANCE WITH THE REQUIREMENTS OF TASK ITEM 2.2

AND REPAIR DAMAGED JOINT SEALANTS IN ACCORDANCE WITH TASK ITEMS

TASK ITEM 7.5, TYP.

EXIST PRECAST

WALL/PRECAST

BACKROD, AS

EXIST WALL

EMBED PL

GIRDER

REQD

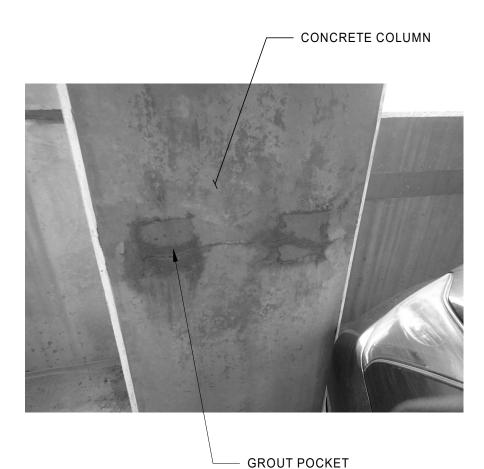
FLANGE-TO-FLANGE SHEAR CONNECTOR REPAIR (INCIDENTAL)

INSTALL A TEMPORARY BOND BREAKER DURING THE PLACEMENT OF THE BEAM OR SLAB REPAIR MATERIAL. REMOVE IT AT THE COMPLETION OF THE WORK -VARIES-BEARING PAD FACE OF REMOVAL LIMITS CORBEL SPALL OR DELAMINATION ROUGHEN EXIST CONC INSTALL SURFACE TO CSP 9. REFER PATCH TO SPECIFICATIONS REINFORCEMENT **LOCATIONS APPROX** (TYP) CHIP. GRIND. OR SAW CUT AROUND PATCH PERIMETER REMOVE CONC FOR AT LEAST 1/2" BEYOND WITHIN SHADED THE SPALL/DELAMINATION SECTION SHOWN OR UP TO SOUND CONCRETE. INITIAL **GRINDING OR SAW CUTTING** SHALL BE PERPENDICULAR TO SURFACE

- PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING OR SAW CUTTING FOR SPALL/DELAMINATION REPAIR.
- 2. REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT.
- 3. PROVIDE 1" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE REQUIRED AS SPECIFIED IN SECTION "SURFACE PREPARATION FOR PATCHING."
- WHERE REINFORCEMENT THAT IS EXPOSED DURING SURFACE PREPARATION IS FOUND TO BE SEVERELY CORRODED OR HAS LOST 10% OR MORE OF ITS CROSS SECTIONAL AREA, SUPPLEMENTARY REINFORCEMENT MAY BE REQUIRED. REPORT TO ENGINEER FOR REVIEW
- 5. NEW PATCH SHALL MATCH EXISTING FINISH. 6. CONTRACTOR SHALL CONTACT ENGINEER IF SPALL IS DEEPER THAN 3" PRIOR TO FURTHER REMOVAL OF CONCRETE. SHORING MAY BE REQUIRED.



- ACCORDANCE WITH REQUIREMENTS IN SECTION "TASK ITEMS" T.I. 4.3. WHERE STEEL THAT IS EXPOSED DURING SURFACE PREPARATION IS FOUND TO BE SEVERELY CORRODED, HAS BROKEN WELDS, OR HAS LOST 10% OR MORE OF ITS CROSS SECTIONAL AREA, REPAIRS MAY BE REQUIRED. REPORT TO ENGINEER FOR REVIEW AND DESIGN REPAIRS.
- 4. NEW REPAIR SHALL MATCH EXISTING.



3. ABRASIVELY BLAST CLEAN AND COAT EXISTING STEEL ANCHOR COMPONENTS IN

APPLY NON-SHRINK GROUT

MATERIALS", FINISH FLUSH

WITH COL FACE, PAINT TO

MATCH EXIST AS REQD

EXIST STEEL ANCHOR

COMPONENTS

FROM SECTION "CONC REPAIR

TYPICAL - CORBEL REPAIR

AND DESIGN OF SUPPLEMENTARY REINFORCEMENT.



6. REFER TO SPECIFICATIONS FOR SEALANT TYPE AND OTHER REQUIREMENTS.

TYPICAL -**CRACK REPAIR & JOINT SEALANT** INSTALLATION/REPLACEMENT

1. SLAB MAY HAVE EMBEDDED ELECTRICAL CONDUITS, VERIFY LOCATION PRIOR TO

2. CLEAN ROUTED CRACK BEFORE FILLING WITH SEALANT SUCH THAT THERE ARE NO OLD

4. SPECIAL CASE: IF TRAFFIC COATING WILL BE APPLIED, INSTALL SEALANT FLUSH WITH

5. USE MAGNETIC REBAR LOCATOR OR OTHER NON-DESTRUCTIVE METHOD TO DETERMINE

WITH REINFORCEMENT PRIOR TO ROUTING THE CRACK. DO NOT NICK OR CUT EXISTING

LOCATION OF REINFORCEMENT. NOTIFY ENGINEER IF DEPTH OF ROUTED JOINT INTERFERES

TYPICAL PRECAST GROUT POCKET REPAIR

1301 McKinney Street, Suite 1100 Houston, Texas 77010 713.630.7300

HCCS 3200 MAIN PG HIGH PRIORITY REPAIRS

walter

Walter P Moore and Associates, Inc.

Client: HOUSTON COMMUNITY **COLLEGE SYSTEM**

Issues/Revisions

Project Name:

Project Status

No. | Date | Description 04/20/2020 ISSUED FOR CONSTRUCTION Project Number Drawn By: D03.20020.00 RC/AZ Checked By: Approved By GH/EVC DZ/AVB Certification Statement

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

Seal and Signature: Walter P. Moore and Associates, Inc.

TBPE Firm Registration No. 1856 AMEY V. BAPAT

Copyright (c) 2019 by Walter P. Moore and Associates, Inc

This document and the information herein is the property of Walter P. Moore and Associates, Inc. No part hereof shall be copied. duplicated, distributed, disclosed or used to any extent whatsoever except as expressly authorized by Walter P. Moore and Associates Inc. Any person, firm, or corporation receiving this document, however obtained, shall by virtue hereof, be deemed to have agreed to the forgoing restrictions and that this document will be held in trust and confidence subject only to the private use expressly authorized by Walter P. Moore and Associates, Inc

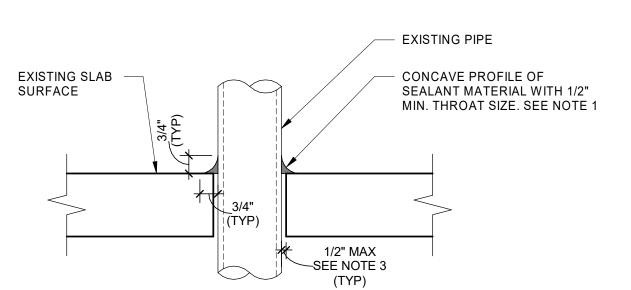
Drawing Title:

DETAILS

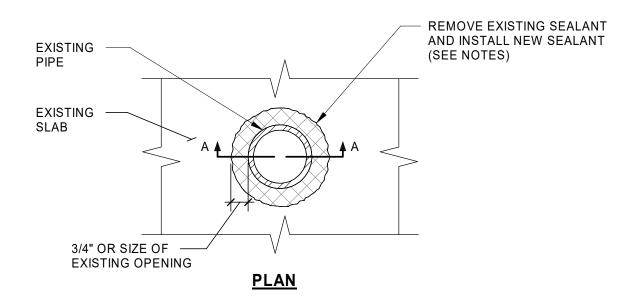
Filename

TYPICAL - COVE SEALANT INSTALLATION AROUND COLUMN PERIMETER

NOTE: 1. REFER TO TASK ITEM 7.5 COVE SELANT FOR DETAIL.



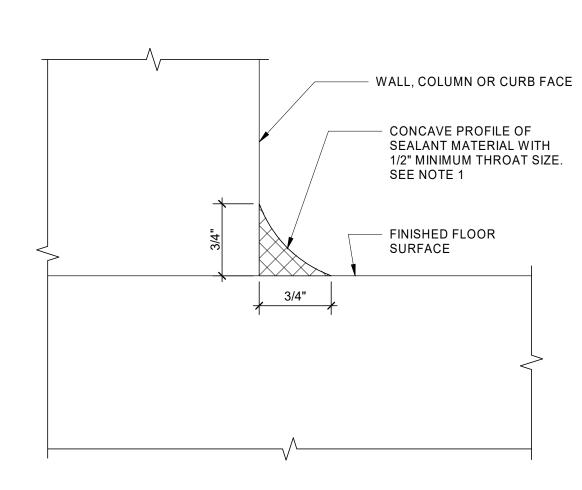
SECTION "A-A"



. CLEAN AND COAT EXISTING IRON/STEEL DRAIN PIPES. CLEAN EXISTING JOINT OF DEBRIS, DUST AND CONTAMINANTS.

- REFER TO SPECIFICATIONS FOR SEALANT TYPE AND OTHER REQUIREMENTS.
- IF GAP EXCEEDS 1/2" CONTRACTOR SHALL USE PIPE FLASHING TO SEAL PENETRATION. SUBMIT PIPE FLASHING MATERIAL TO ENGINEER FOR REVIEW AND APPROVAL.

TYPICAL - SEAL PIPE PENETRATION



NOTES:

1. REMOVE EXISTING COVE SEALANT MATERIAL IF PRESENT. PREPARE SURFACE PER

2. SEE SPECIFICATIONS FOR TYPE OF SEALANT MATERIAL.

TYPICAL - COVE SEALANT



NOTE:
1. REFER TO TASK ITEM 7.2 JOINT SEALANT INSTALLATION FOR DETAIL

CONSTRUCTION JOINT - JOINT SEALANT



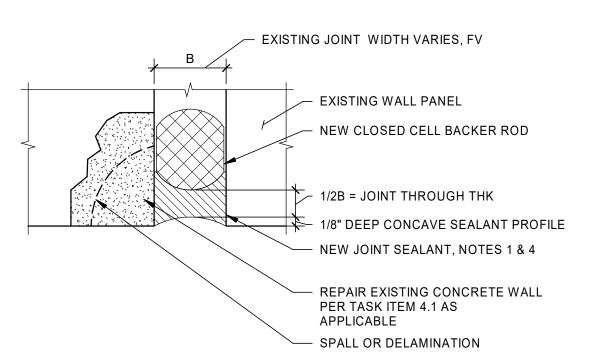
INSTALLATION

CLEAN, REPAIR SPALLED VERTICAL SURFACE PROVIDE 4" WIDE DETAIL COAT SEALANT AT PIPE CONC. APPLY TRAFFIC SEE NOTE 4 FOR CENTERED OVER ALL CRACKS LESS THAN PENETRATION SURFACE (WALL OR COLUMN) COATING TO INTERIOR OF TRAFFIC COATING 1/32" WIDE AS WELL AS ALL CRACKS AND SEE NOTE TRENCH DRAINS (DO NOT TERMINATION JOINTS THAT ARE ROUTED AND SEALED 3 FOR CONTRACTOR APPLY AGGREGATE IN TRENCH REQUIREMENT TRAFFIC COATING FLOOR SURFACE REQD TO PROVIDE A STRAIGHT AND HORIZONTAL TRAFFIC COATING FLOOR SURFACE SEE NOTE 3 FOR REMOVE -TRAFFIC COATING -FINISH LINE SHARP EDGE TRAFFIC COATING AT PERIMETER REFER TO NOTE 6 FOR TRAFFIC AT TRENCH TERMINATION REQ SLAB EDGE COATING REQUIREMENTS AT DRAIN WHERE **EXPANSION JOINTS** REQUIRED SEE NOTE 5 2'-0" REPAIR UNSOUND MIN SPALLED CONC PER TASK ITEM 4.1 **EXISTING** ROUT AND SEAL CRACKS BUILD UP BASE/ REPAIR UNSOUND GREATER THAN 1/32" WIDTH. AGGREGATE COAT TO REPAIR UNSOUND OR COVE OR SPALLED BE FLUSH WITH THE REMOVE ALL EXISTING SPALLED CONCRETE IF **SEALANT** CONCRETE PER CRACK/JOINT SEALANT PER APPLICABLE. SEE TASK TOP COAT. PER TASK TASK ITEM 2.3 TASK ITEM 7.1 AND 7.3. ITEM 7.5 COVE SEALANT SEE NOTE 7 SEE TYPICAL DRAIN DETAIL 7.5

QUANTITIES FOR NEW TRAFFIC COATING IN BID FORM ARE BASED ON HORIZONTAL APPLICATION AREA.

- 2. THE FOLLOWING TASKS ARE INCLUDED (INCIDENTAL) TO THIS WORK: VERTICAL DETAILING, ADDITIONAL COAT OVER CRACKS, ADDITIONAL COAT TO FILL VOIDS AND
- IMPERFECTIONS IN SUBSTRUCTURE TO PROVIDE A UNIFORM THICKNESS. 3. CONTRACTOR SHALL SUBMIT TRAFFIC COATING MANUFACTURER'S RECOMMENDED DETAIL FOR TERMINATING TRAFFIC COATING ON HORIZONTAL AND VERTICAL
- SURFACES TO ENGINEER FOR APPROVAL. 4. CONTRACTOR SHALL SUBMIT TRAFFIC COATING MANUFACTURER'S RECOMMENDED DETAIL FOR TERMINATING TRAFFIC COATING ON AND AT PIPE PENETRATIONS TO
- CLEAN AND COAT MISCELLANEOUS STEEL SURFACES IN ACCORDANCE WITH TASK ITEM 10.5 CLEAN AND COAT CORRODED STEEL
- CONTRACTOR SHALL COORDINATE WITH MANUFACTURER AND SUBMIT DETAIL FOR TRAFFIC COATING AT EXPANSION JOINTS TO ENGINEER FOR APPROVAL.
- REINSTALL GRATES AFTER TRAFFIC COATING HAS BEEN INSTALLED AND CURED ADEQUATELY PER MANUFACTURERS RECOMMENDATIONS. TASK ITEM 2.1 CONCRETE TOPPING REPAIR, TASK ITEM 2.2 CONCRETE EDGE TOPPING REPAIR, TASK ITEM 4.1 CONCRETE WALL REPAIR, TASK ITEM 7.12 SEAL PIPE
- PENETRATION, AND TASK ITEM 10.5 CLEAN AND COAT CORRODED STEEL ARE INCIDENTAL TO THIS TASK ITEM.

TRAFFIC COATING - NEW SYSTEM/REPLACEMENT RECOAT



1. DETAIL APPLIES TO EXISTING WALL PANEL JOINTS. 2. REMOVE EXISTING JOINT SEALANT MATERIALS IF PRESENT.

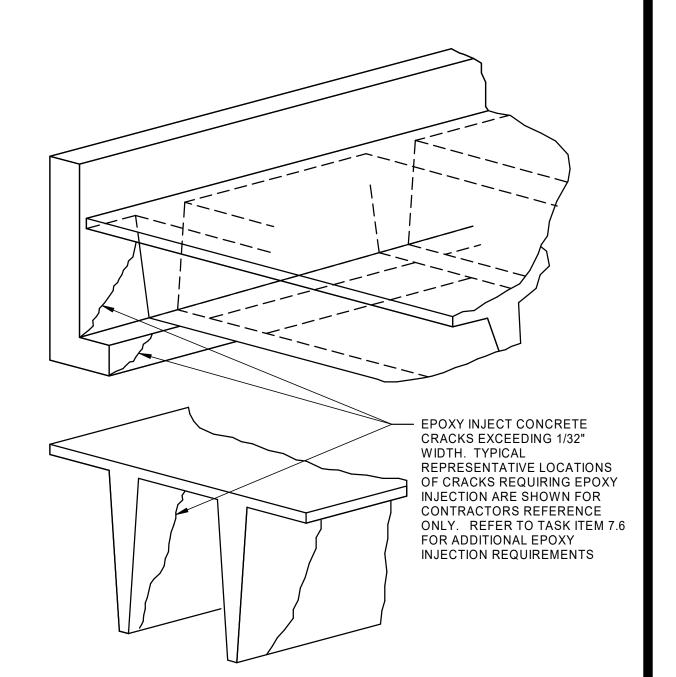
SQUARE CORNERS

- 3. CLEAN JOINT BEFORE FILLING WITH MATERIALS SUCH THAT THERE ARE NO
- OLD RESIDUAL MATERIALS, DUST AND CONTAMINANTS.
 4. DO NOT OVERFILL THE JOINT. 5. REFER TO SPECIFICATIONS FOR SEALANT TYPE, BACKER ROD AND OTHER

6. CONCRETE SPALL REPAIRS AT JOINT ARE INCIDENTAL TO THIS TASK ITEM.



VERTICAL JOINT SEALANT REPLACEMENT



1. FOR ILLUSTRATION PURPOSES, CRACKS ARE SHOW ON PRECAST DOUBLE-TEE STRUCTURE

- 2. REFER TO SPECIFICATIONS SECTION "EPOXY RELATED WROK" FOR
- ADDITIONAL REQUIREMENTS.
- 3. THIS REPAIR TO BE PERFORMED AT CONCRETE VERTICAL OR OVERHEAD SURFACES.

TYPICAL - EPOXY INJECTION (ISOMETRIC) (INCIDENTAL)



Walter P Moore and Associates, Inc. 1301 McKinney Street, Suite 1100 Houston, Texas 77010

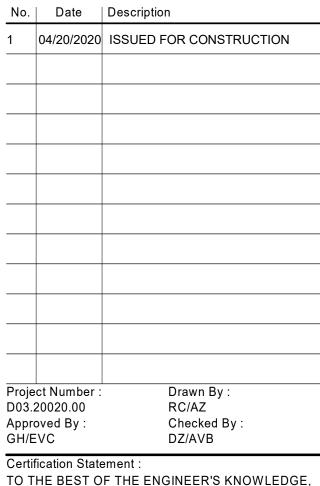
713.630.7300

Project Name:

HCCS 3200 MAIN PG HIGH PRIORITY REPAIRS

HOUSTON COMMUNITY COLLEGE SYSTEM

Project Status



THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

Seal and Signature: Walter P. Moore and Associates, Inc.



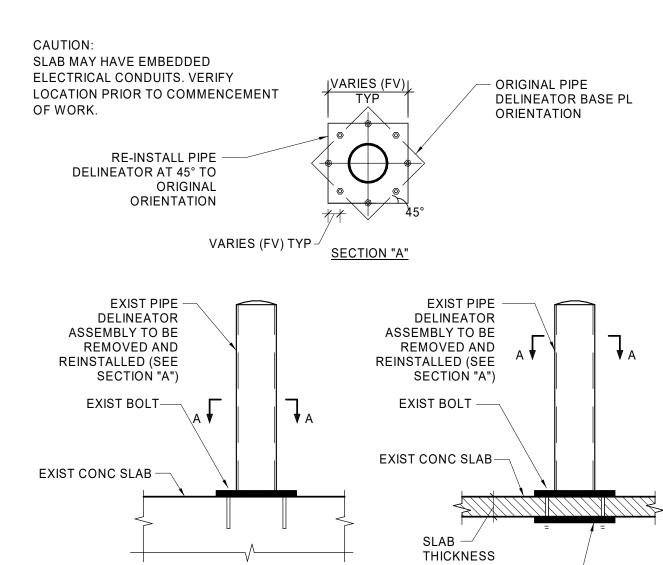
This document and the information herein is the property of Walter P. Moore and Associates, Inc. No part hereof shall be copied, duplicated, distributed, disclosed or used to any extent whatsoever except as expressly authorized by Walter P. Moore and Associates, Inc. Any person, firm, or corporation receiving this document, however obtained, shall by virtue hereof, be deemed to have agreed to the forgoing restrictions and that this document will be held in trust and confidence subject only to the private use expressly authorized by Walter P. Moore and Associates, Inc.

Drawing Title :

DETAILS

Filename:





NOTES:

- 1. TIGHTEN EXISTING BOLTS. IF EXISTING BOLTS FAIL, INSTALL NEW BOLTS TO MATCH EXISTING.
- 2. CONTRACTOR SHALL NOT DAMAGE SLAB DURING REMOVAL OF EXISTING PIPE DELINEATOR HARDWARE. 3. IF BOLT HOLES ARE DAMAGED THEN REORIENT ORIGINAL PIPE DELINEATOR BASE PLATE AND INSTALL NEW POST-INSTALLED ANCHORS MATCH EXISTING BOLTS.

NEW 1/4" THICK PLATE —

CASE 2

- 4. USE NON-DESTRUCTIVE METHODS TO LOCATE STEEL REINFORCEMENT, PT TENDONS, OR OTHER EMBEDMENT IN THE SLAB BEFORE INSTALLING NEW ANCHORS. DO NOT DAMAGE REINFORCEMENT, TENDONS, OR OTHER EMBEDDED ITEMS.
- THIS PIPE DELINEATOR IS NOT DESIGNED OR INTENDED FOR USE AS A VEHICLE BARRIER SYSTEM.
 CONTRACTOR SHALL FIELD VERIFY SLAB THICKNESS.



TYPICAL - BOLLARD REPAIR

CASE 1



Walter P Moore and Associates, Inc. 1301 McKinney Street, Suite 1100 Houston, Texas 77010

713.630.7300

Project Name:

HCCS 3200 MAIN PG HIGH PRIORITY REPAIRS

Client : HOUSTON COMMUNITY COLLEGE SYSTEM

Issues/Revisions:

Project Number:

Project Status

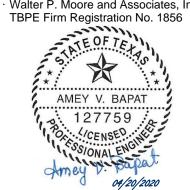
No.	Date	Description
1	04/20/2020	ISSUED FOR CONSTRUCTION

D03.20020.00 RC/AZ Approved By: Checked By: GH/EVC DZ/AVB Certification Statement :

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH

Drawn By:

THE APPLICABLE MINIMUM BUILDING CODES. Seal and Signature : Walter P. Moore and Associates, Inc.



Copyright (c) 2019 by Walter P. Moore and Associates, Inc.

This document and the information herein is the property of Walter P. Moore and Associates, Inc. No part hereof shall be copied, duplicated, distributed, disclosed or used to any extent whatsoever except as expressly authorized by Walter P. Moore and Associates, Inc. Any person, firm, or corporation receiving this document, however obtained, shall by virtue hereof, be deemed to have agreed to the forgoing restrictions and that this document will be held in trust and confidence subject only to the private use expressly authorized by Walter P. Moore and Associates, Inc.

Drawing Title :

DETAILS

Filename: