UTHSCH CYCLOTRON FACILITY ROOFING REPAIRS

HOUSTON, TEXAS

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S-3.3	DECK REPAIR/REPLACEMENT - PATCH CONCRETE DECK, JOINT SEALANT REPLACEMENT

1 PARTIAL VIEW OF ROOFTOP
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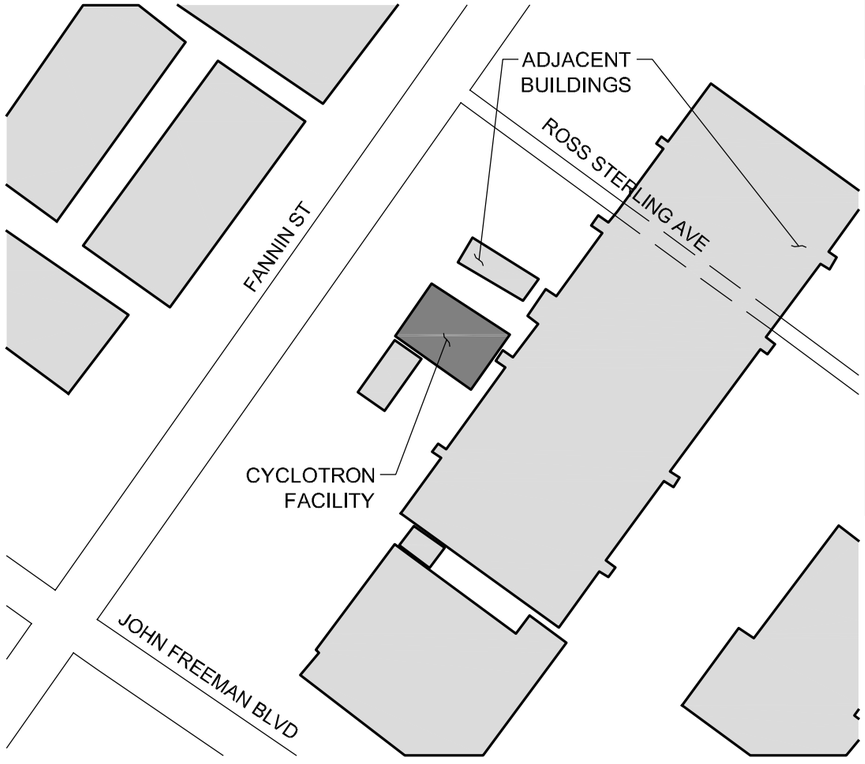

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2 SITE MAP
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Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856

STATE OF TEXAS
KIMANI GEORGE AUGUSTINE
104891
LICENSED PROFESSIONAL ENGINEER
22 MAY, 2013

WALTER P MOORE
WALTER P. MOORE AND ASSOCIATES, INC.
1301 McKINNEY, SUITE 1100
HOUSTON, TEXAS 77010
PHONE: 713.630.7300 FAX: 713.630.7396

Project Name: CYCLOTRON FACILITY ROOFING REPAIRS HOUSTON, TX

Client: UTHSCH

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GENERAL NOTES

I. DESIGN CRITERIA

A. GENERAL BUILDING CODE
The Contract Documents are based on the requirements of the
1. International Building Code, 2006 edition with City of Houston amendments.

B. LIVE LOADS
1. Design live loads are based on the uniform load listed below.

CATEGORY	(PSF)
1. Roof	20

C. WIND LOADS
Wind pressures are based on the American Society of Civil Engineers Minimum Design Loads for Buildings and Other Structures, ASCE 7-05 with a Wind speed = 110 mph (3 sec. gust), Wind Exposure Category B, Wind Importance Factor 1.15, Building Category III, Internal Pressure Coefficient ±0.18, Height = 15 ft.

CATEGORY	Interior Zone 1 (PSF)	Edge Zone 2 (PSF)	Corner Zone 3 (PSF)
1. Roof	-20	-24	-24

Note: Edge and Corner zones shall be 6 Feet Wide.

II. STRUCTURAL STEEL

A. MATERIAL
1. Hot Rolled Structural Members. All hot rolled steel plates, shapes, and bars shall be new steel conforming to ASTM Specification A6.
2. ASTM Specification and Grade. Clearly mark the grade of steel on each piece, with a distinguishing mark visible from floor surfaces, for the purpose of field inspection of proper grade of steel. Unless noted otherwise on the drawings, structural steel shall be hot-dip galvanized and shall be as follows:
   a. ASTM A36.

B. FABRICATION
1. Fabricate and assemble structural assemblies in shop to greatest extent possible.
2. Dimensional Tolerances. Dimensional tolerances of fabricated structural steel shall conform to Section 6.4 of the AISC Code of Standard Practice unless noted otherwise.
3. Responsibility. The fabricator shall be responsible for all errors of detailing on the shop drawings, errors in fabrication, and for the correct fitting of structural steel members.

C. ERECTION
1. Erection Tolerances. Erection tolerances of structural steel unless specified otherwise on the drawings shall conform to the AISC Code of Standard Practice.
2. Field Modifications to Structural Steel. Field cutting of structural steel or any field modifications to structural steel shall not be made without prior written approval of the Engineer for each specific case.

III. 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. The contract drawings and specifications represent the finished 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.

B. EXISTING CONDITIONS
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 the Engineer in writing prior to the fabrication and installation of any roofing system components.

C. ROOFING SYSTEM MANUFACTURER REPRESENTATION
The Contractor shall engage representatives of the roofing system manufacturer to be on-site during the early stages of work. Roofing system manufacturer's representatives shall be present at the pre-construction meeting, during tear-off of the existing roofing system, and at other phases of the project.

D. RESPONSIBILITY OF THE CONTRACTOR FOR STABILITY OF THE STRUCTURE DURING CONSTRUCTION
It is the responsibility of the Contractor to maintain the stability and safety of all structural elements adjacent to repair areas. It is the responsibility of the Contractor to provide all required shoring and bracing to maintain the stability and safety of all elements during repair operations until the roof system installation is completely installed and tied together.

E. RESPONSIBILITY OF THE CONTRACTOR FOR CONSTRUCTION LOADS
The Contractor shall not overload the structure during construction. The Contractor shall be responsible fo checking the adequacy of the structure to support any applied construction loads in excess of the stated roof live loads, including those due to equipment, material handling or storage, or any other construction activity.

F. CONFLICTS IN REQUIREMENTS
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.

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

1. A cost savings to the Owner is documented and submitted with the request.
2. The material is approved as an equivalent product by the Engineer.

H. THE 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 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 determine if Contractor is in general conformance with the contract documents.

I. MAINTENANCE STATEMENT
All roofing systems require periodic maintenance to extend lifespan and to insure structural integrity from exposure to the environment. A planned program of maintenance shall be established by the building owner.

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TBPE Firm Registration No. 1856

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1301 McKINNEY, SUITE 1100
HOUSTON, TEXAS 77010
PHONE: 713.630.7300 FAX: 713.630.7396

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GENERAL NOTES (CONT'D)

IV. 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 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:

1. Shop Drawings
2. Manufacturers Literature for Products, Assemblies, and Hardware
3. Products, Assemblies and Hardware
4. Product Certifications, Mill Certificates, and Affidavits
5. Product and Contractor Warranties.

B. SHOP DRAWINGS

1. The General Contractor shall submit for Engineer review shop drawings for the following items:
   (1) Sheet Metal Flashing
   (2) Roofing Membrane
   (3) Crossover Bridges
2. All shop drawings must be reviewed and stamped by the General Contractor prior to submittal.
3. Contractor shall submit one electronic set of of prints for all shop drawings specified to be returned by the Engineer.
4. 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. MANUFACTURERS LITERATURE
Submit one electronic set of manufacturers literature for all materials and products used in construction on the project.

D. 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.

V. DRAWING INTERPRETATION

A. STRUCTURAL ABBREVIATIONS
The following abbreviations are used on the structural drawings:

Ø	ROUND, DIAMETER	MAX	MAXIMUM
APPROX	APPROXIMATE	MIN	MINIMUM
CONT	CONTINUOUS	MISC	MISCELLANEOUS
DIA	DIAMETER	OC	ON CENTER
DIM	DIMENSION	QTY	QUANTITY
EMBED	EMBEDMENT	REF	REFERENCE, REFER
FT	FOOT/FEET	SIM	SIMILAR
FV	FIELD VERIFY	STD	STANDARD
HORIZ	HORIZONTAL	TERM	TERMINATION
IN	INCH	TYP	TYPICAL
LBS	POUNDS	VERT	VERTICAL

B. TYPICAL DETAILS
Details on the drawings shall apply to all situations occurring on the project that are the same or similar to those specifically detailed. The applicability of the detail to its location on the plans can be determined by the title of the detail. Such details shall apply whether or not they are keyed in at each location. Decisions regarding applicability of Typical Details shall be determined by the Engineer.

SYMBOL LEGEND FOR ROOF PLANS

SYMBOL	DESCRIPTION
	CONCRETE/PRECAST PARAPET
	SCUPPER
⊘	PIPE PENETRATION
⌖	ROOF DRAIN
	CURB FOR ROOF TOP UNIT
	MECHANICAL/ELECTRICAL CONDUIT
	WALKPADS
	AREA NOT IN SCOPE
#.##	TASK ITEM OR WORK DESCRIPTION

GENERAL ROOFING NOTES

1. Scope of work includes the removal and replacement of the existing roof system, sheet metal components, and all associated accessories as described in the drawings and specifications. Demolition to include all abandoned and defunct conduit, roof-top equipment, ductwork, curbs, pipes, and etc.

2. Remove and dispose of existing roofing material, coping, ballast, walkpads, duct and pipe piers, roof insulation, and all associated flashing and hardware in accordance with all federal and local regulatory requirements.

3. All penetrations through the roof and anchored to the structure below shall be flashed per roofing membrane manufacturer recommendations.

4. Provide temporary protection at all areas where existing roofing has been removed. Contractor is responsible for maintaining a weather-tight condition of the building at all areas exposed during roofing replacement.

5. The interior of the building shall be protected from construction at all times. At completion of work, interior of the building, all roof areas, and all areas around the building shall be fully cleaned of all work and debris as a result of the roofing work.

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104891
LICENSED
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1301McKINNEY, SUITE 1100
HOUSTON, TEXAS 77010
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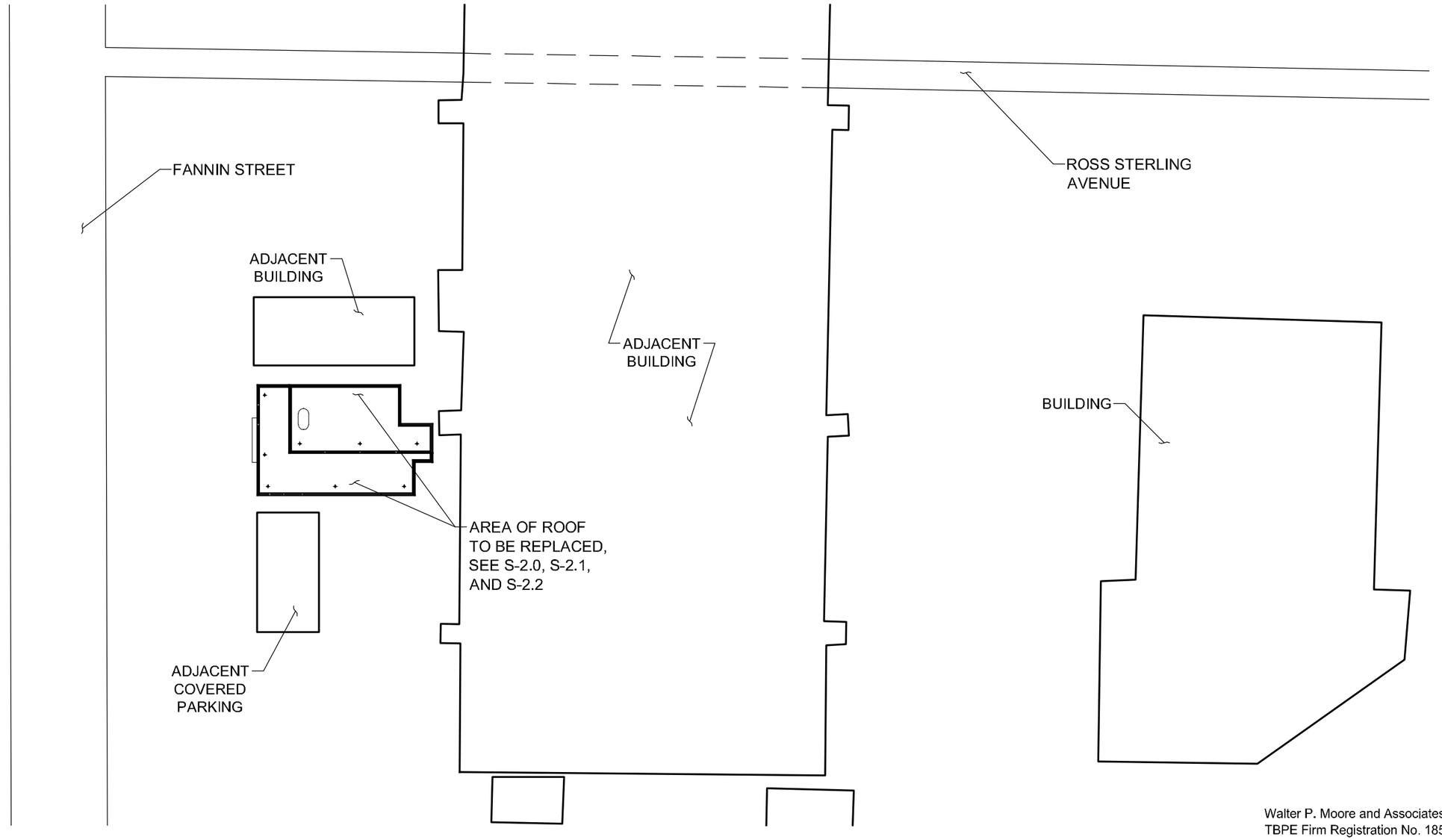

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1 SCHEMATIC SITE PLAN

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WALTER P MOORE

WALTER P. MOORE AND ASSOCIATES, INC.
1301 McKINNEY, SUITE 1100
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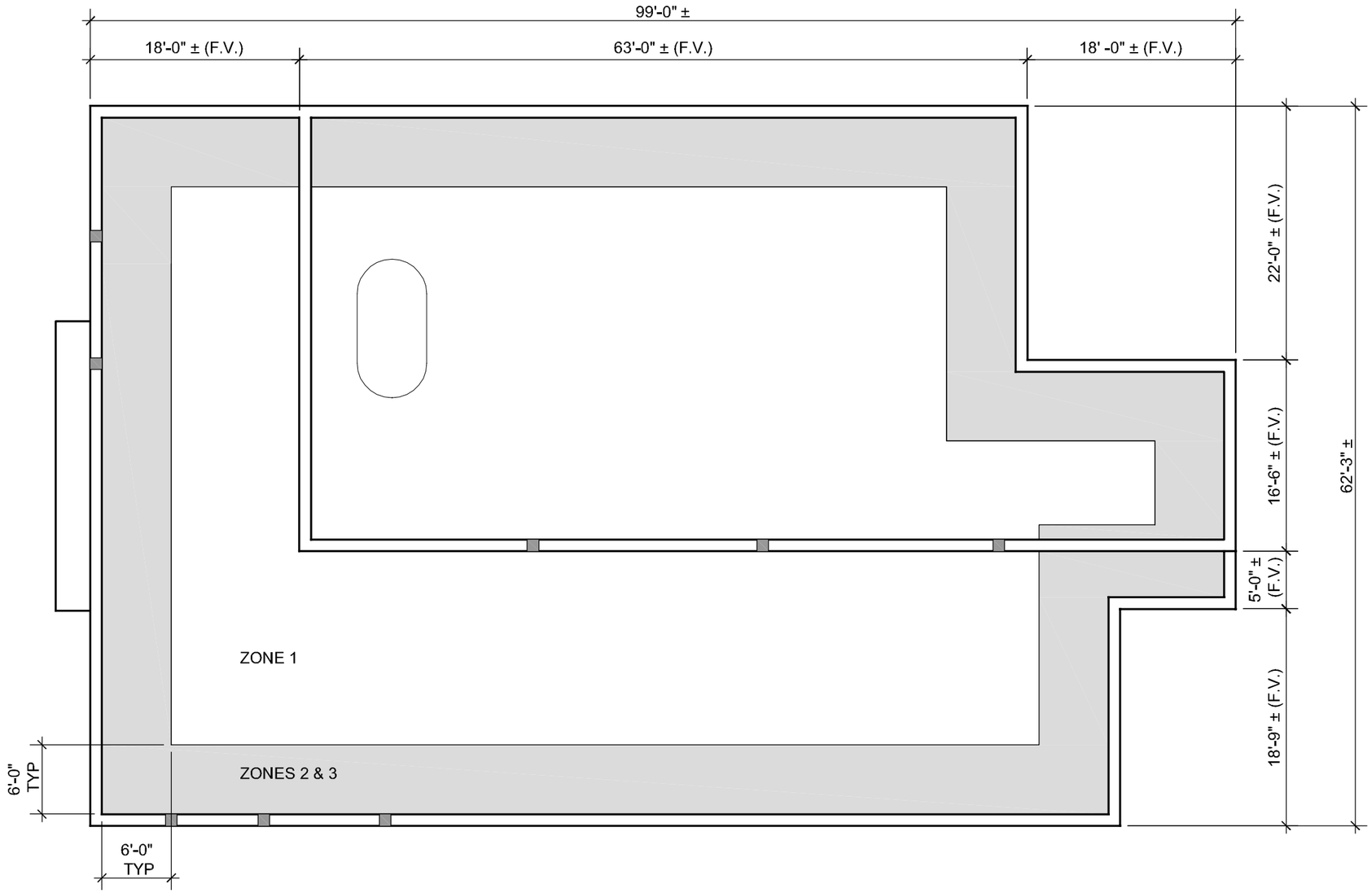

WIND LOAD PRESSURES

ZONE 1 (INTERIOR) = - 20 PSF (UNSHADED)
ZONE 2 (EDGE) = - 24 PSF (SHADED)
ZONE 3 (CORNER) = - 24 PSF (SHADED)

N

1 T.I. 6.2/7.1/7.2 - ROOF PLAN - WIND PRESSURE ZONES

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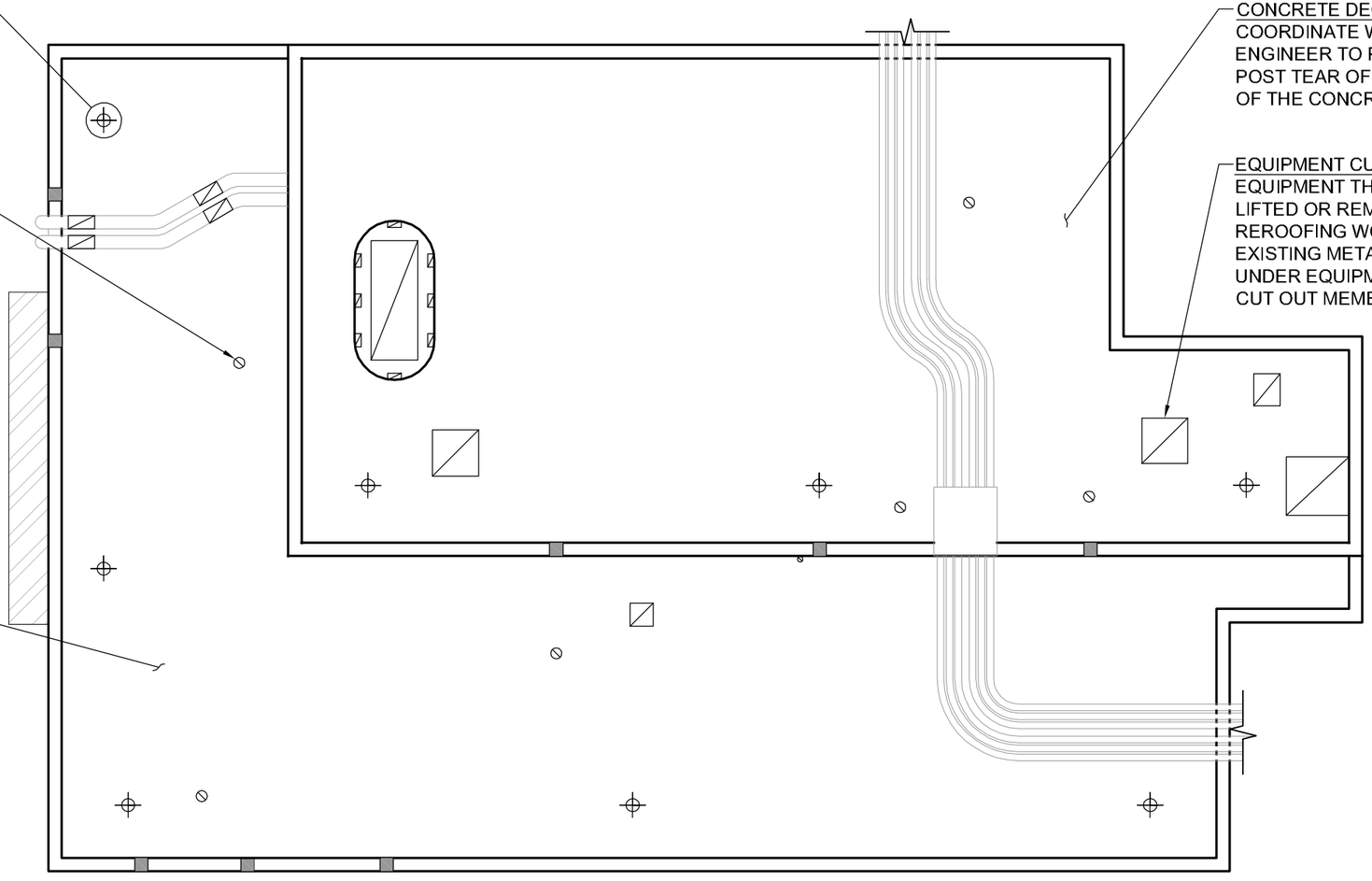
ROOF DRAINS: CLEAN AND COAT EXISTING ROOF DRAIN BOWLS PER T.I. 22.1 TYP, REPORT DAMAGED BOWLS AND/OR CLAMPING RINGS TO ENGINEER. INSPECT DRAIN FROM INTERIOR AND TEST FOR LEAKAGE PRIOR TO TEAR-OFF.

PENETRATIONS: REMOVE ALL PITCH PANS, BOOTS, AND OTHER FLASHINGS PER T.I. 2.1 AND CLEAN PENETRATIONS TO BARE METAL, TYP.

ROOFING SYSTEM: REMOVE AND DISCARD ALL EXISTING ROOFING MEMBRANE AND INSULATION BOARD DOWN TO CONCRETE DECK. REMOVE ALL FLASHINGS, COUNTERFLASHINGS, WALKWAY PADS, DETERIORATED NAILERS, AND OTHER ROOFING MATERIALS PER T.I. 2.1. SEE NOTE 2.

CONCRETE DECK: COORDINATE WITH ENGINEER TO PERFORM A POST TEAR OFF REVIEW OF THE CONCRETE DECK.

EQUIPMENT CURBS: AT ROOFTOP EQUIPMENT THAT CANNOT BE LIFTED OR REMOVED FOR REROOFING WORK, LEAVE EXISTING METAL FLASHINGS UNDER EQUIPMENT IN PLACE AND CUT OUT MEMBRANE FLASHINGS.



NOTES:

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2. CONTRACTOR IS ADVISED THAT THE ROOF DOES NOT HAVE OSHA-COMPLIANT PARAPET WALLS. TEMPORARY FALL PROTECTION MUST BE INSTALLED PRIOR TO PERFORMING ANY WORK ON THE ROOF AND MUST REMAIN IN PLACE FOR THE DURATION OF THE REPAIRS.

N

1 T.I. 2.1 - ROOF PLAN - DEMOLITION

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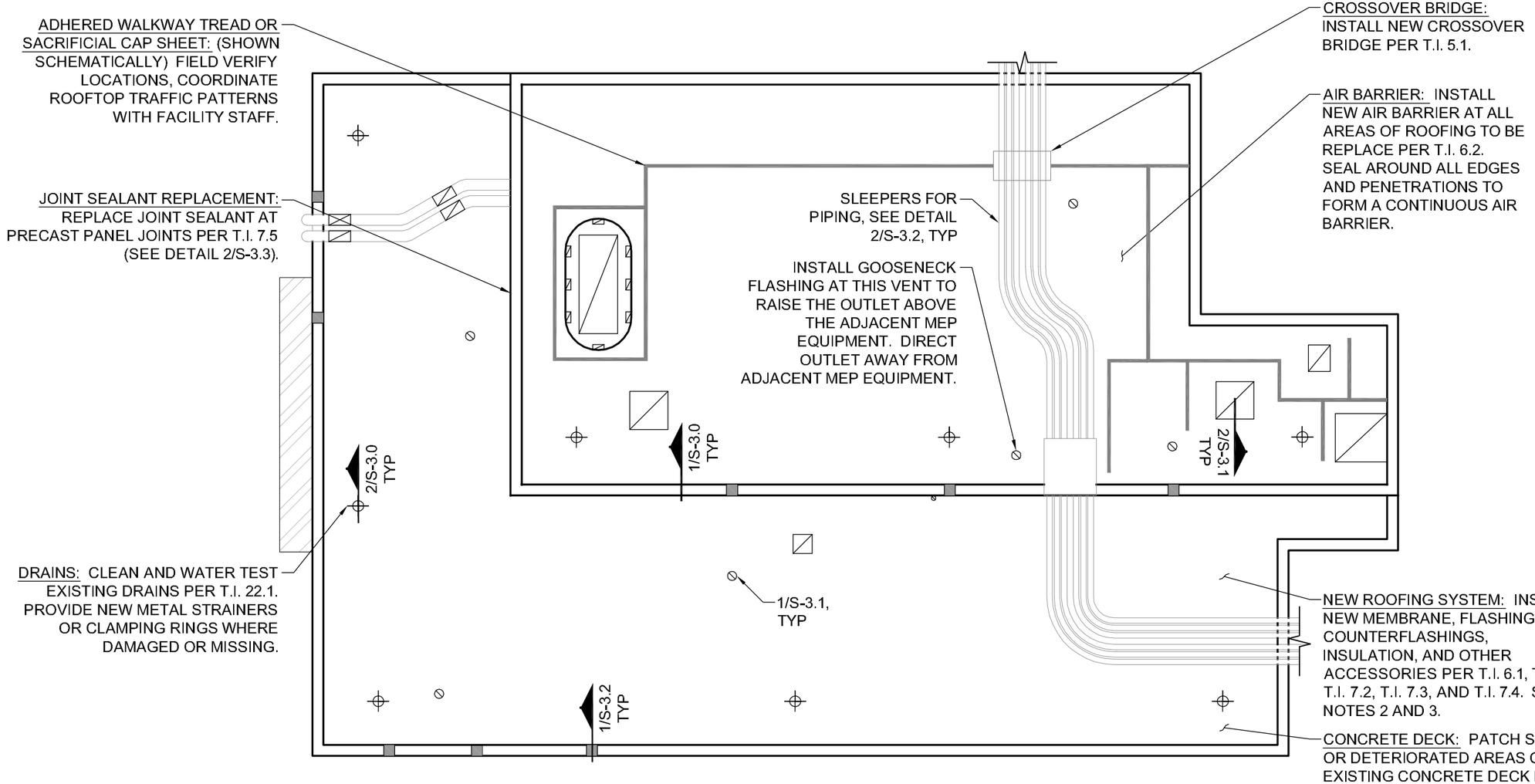

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2. EXISTING STRUCTURE IS SLOPED TO DRAINS. NEW INSULATION SHALL BE FLAT BOARD STOCK, EXCEPT WHERE ADDITIONAL TAPERING OR THICKNESS IS REQUIRED TO PROVIDE SUFFICIENT SLOPE TO THE DRAINS TO ELIMINATE PONDING WATER.
3. CONTRACTOR IS ADVISED THAT THE ROOF DOES NOT HAVE OSHA-COMPLIANT PARAPET WALLS. TEMPORARY FALL PROTECTION MUST BE INSTALLED PRIOR TO PERFORMING ANY WORK ON THE ROOF AND MUST REMAIN IN PLACE FOR THE DURATION OF THE REPAIRS.

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1 ROOF PLAN - REPLACEMENT

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WALTER P MOORE
WALTER P. MOORE AND ASSOCIATES, INC.
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HOUSTON, TEXAS 77010
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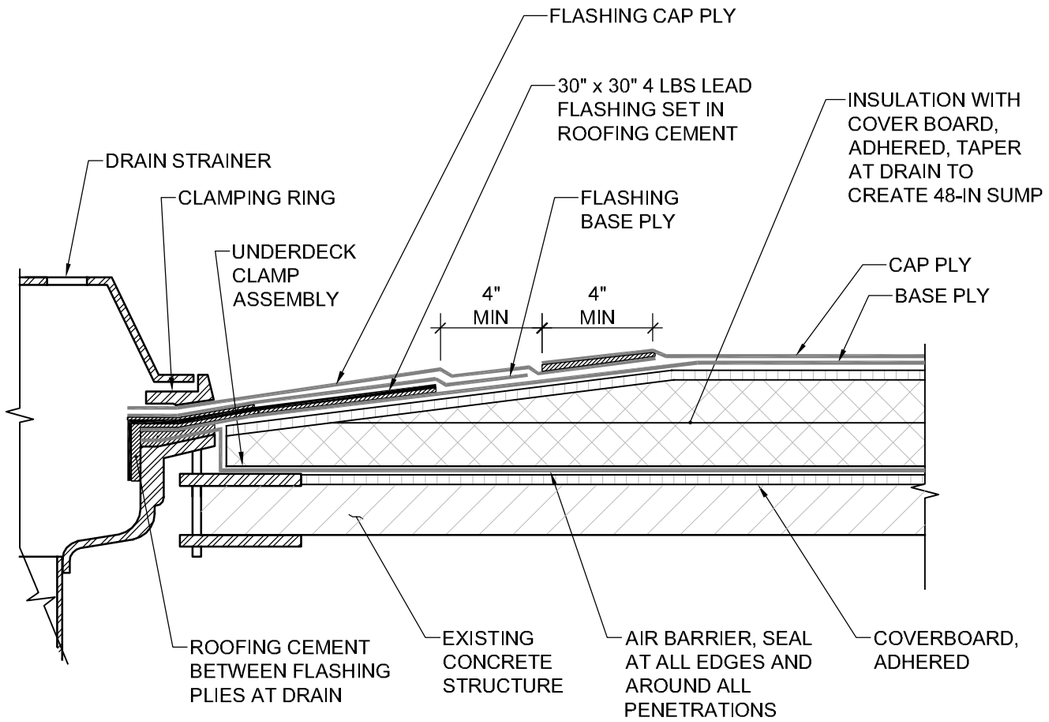

NOTES:

1. CONTACT ENGINEER IMMEDIATELY TO REVIEW DRAIN FLASHING IF DRAIN ASSEMBLY DIFFERS FROM THAT SHOWN.
2. EXISTING DRAIN BOWL, CLAMPING RING, AND DRAIN ACCESSORIES ARE TO BE CLEANED FREE OF ALL CONTAMINANTS.

2 TYPICAL - 2-PLY MOD BIT - FLASHING AT EXISTING ROOF DRAIN

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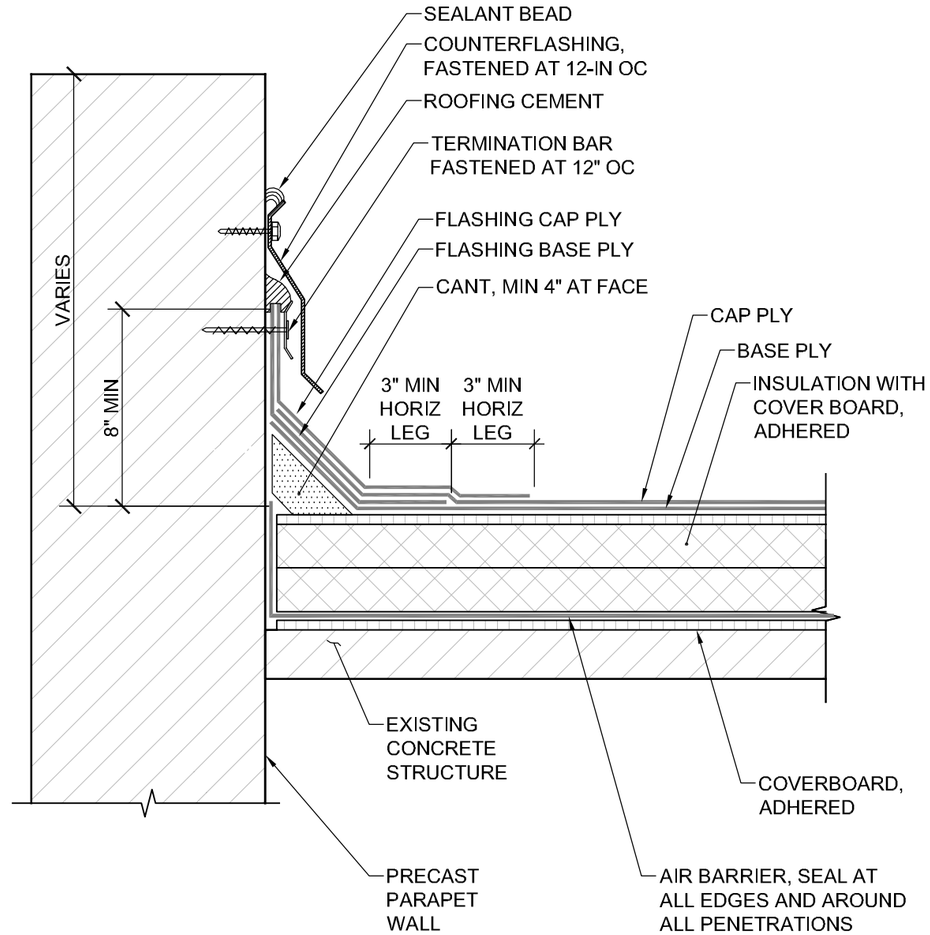

1 TYPICAL - 2-PLY MOD BIT - FLASHING AT VERTICAL WALL

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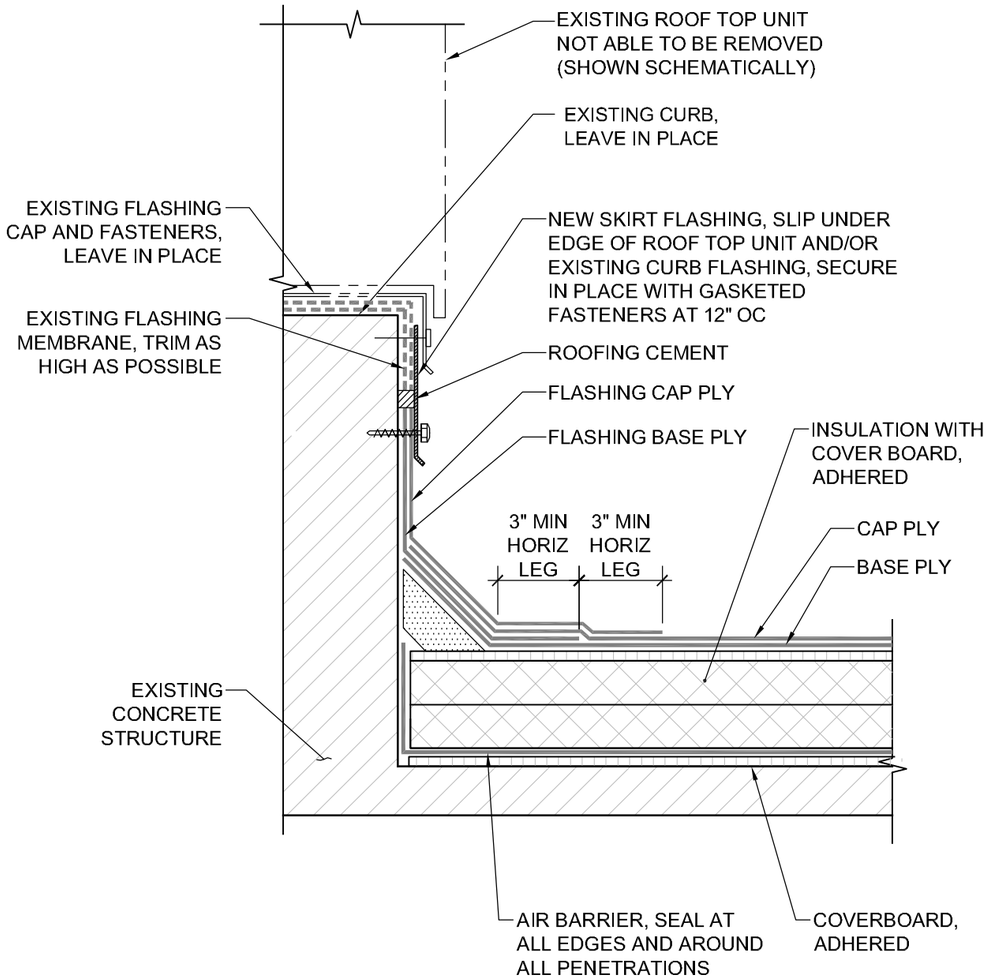

2 TYPICAL - 2-PLY MOD BIT - FLASHING AT NON-REMOVABLE ROOF TOP UNIT

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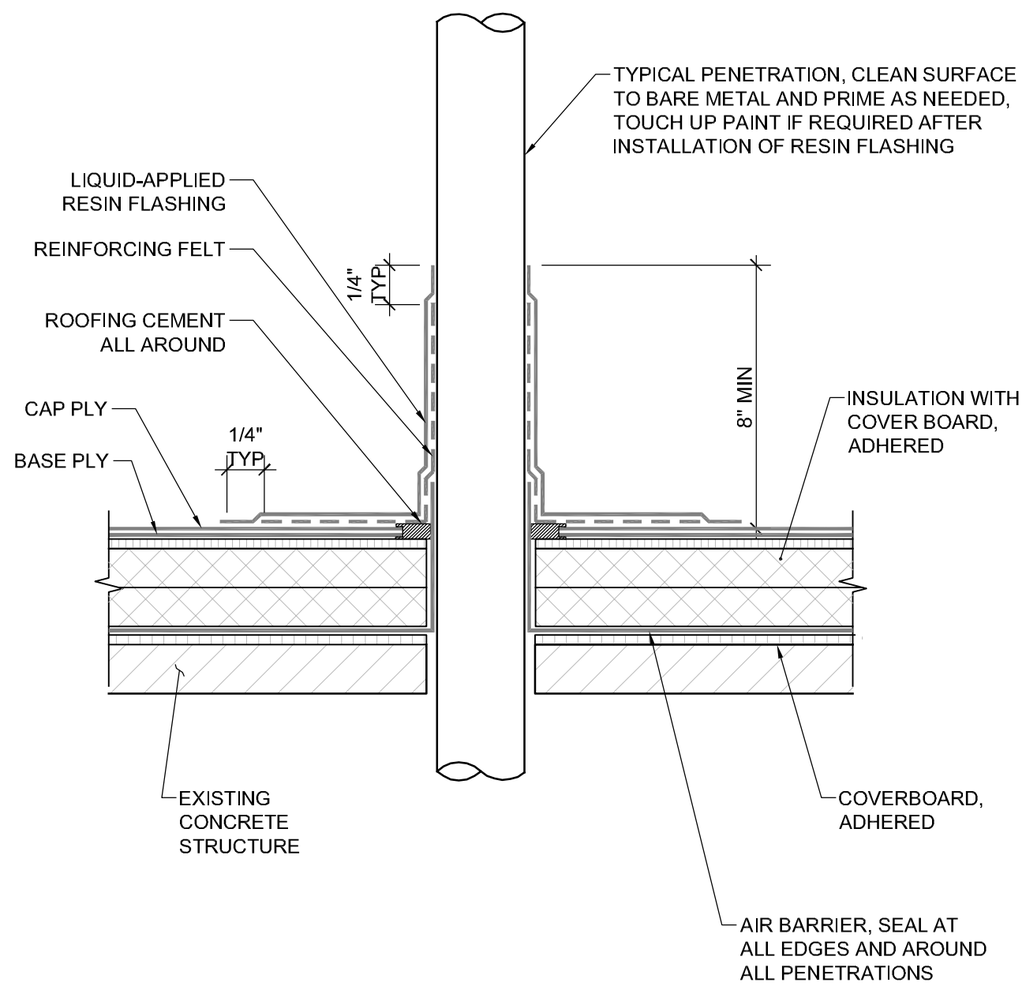

1 TYPICAL - 2-PLY MOD BIT - RESIN FLASHING AT RIGID PENETRATIONS

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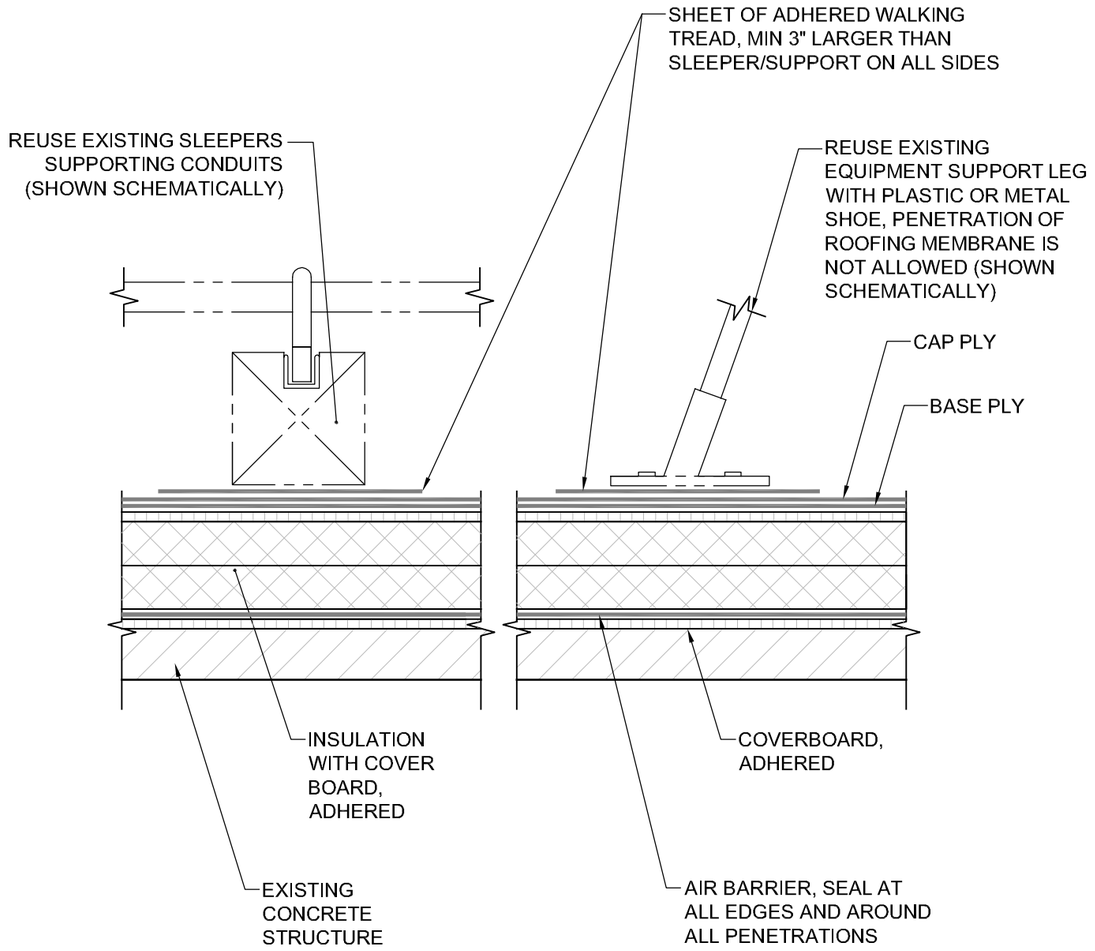

2 TYPICAL - 2-PLY MOD BIT - FLASHING AT SLEEPER AND/OR EQUIPMENT SUPPORT

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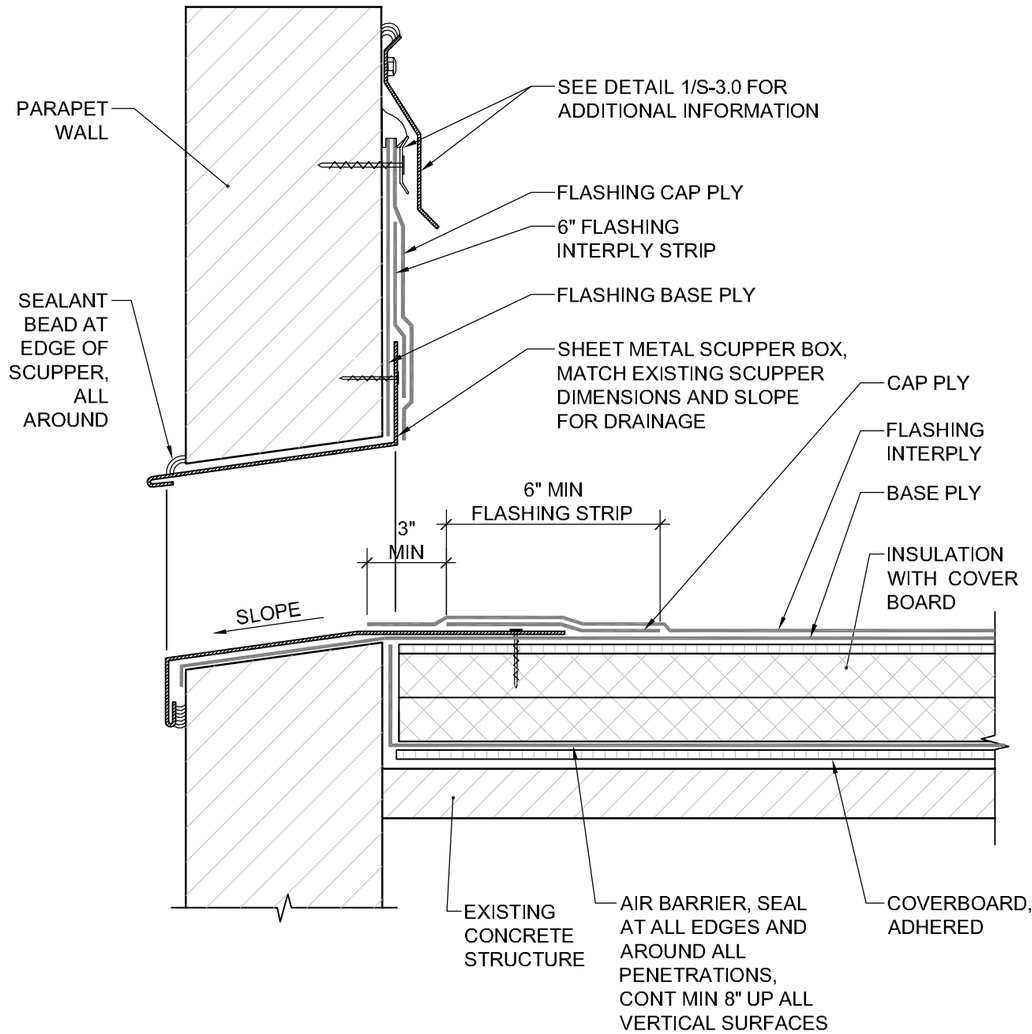

1 TYPICAL - 2-PLY MOD BIT - FLASHING AT SCUPPER

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1301 McKINNEY, SUITE 1100
HOUSTON, TEXAS 77010
PHONE: 713.630.7300 FAX: 713.630.7396

Project Name: CYCLOTRON FACILITY ROOFING REPAIRS HOUSTON, TX

Client: UTHSCH

No.	Date	Description
.	01/07/2013	90% Owner's Review Set
.	05/22/2013	Issued for Construction

Proj No.: D03.12131.00 Eng: KA Drafter: JG / KG

Sheet: S-3.2

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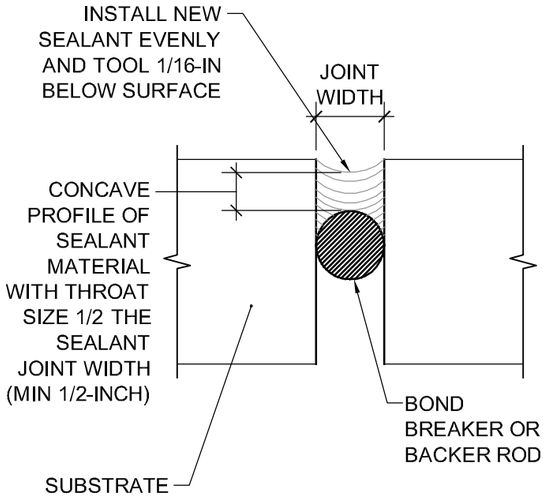
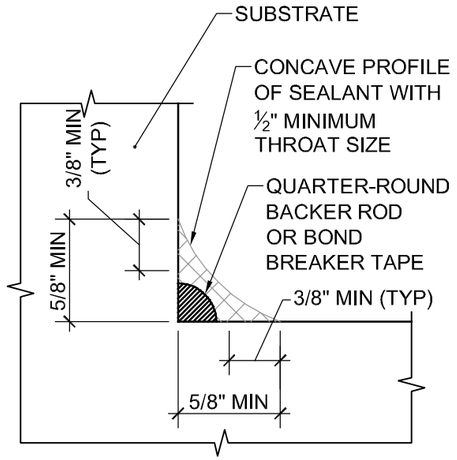


FULL JOINT



COVE JOINT

NOTES:
1. REMOVE EXISTING JOINT SEALANT AND BACKER ROD MATERIAL IF PRESENT.
2. CLEAN ALL SURFACES WITHIN JOINT BEFORE FILLING WITH SEALANT SUCH THAT THERE ARE NO OLD RESIDUAL MATERIALS, DUST, OR CONTAMINANTS ON THE INSIDE SURFACES OF THE JOINT.
3. INSTALL BOND BREAKER AND/OR BACKER ROD TO A UNIFORM DEPTH. INSTALLATION OF WAVY OR NON-UNIFORM BOND BREAKER/BACKER ROD WILL NOT BE ACCEPTABLE.
4. DO NOT OVERFILL THE JOINT.
5. REFER TO SPECIFICATIONS FOR SEALANT TYPE AND OTHER REQUIREMENTS.
6. TOOL JOINT CONCAVE.

2 TYPICAL - JOINT SEALANT REPLACEMENT

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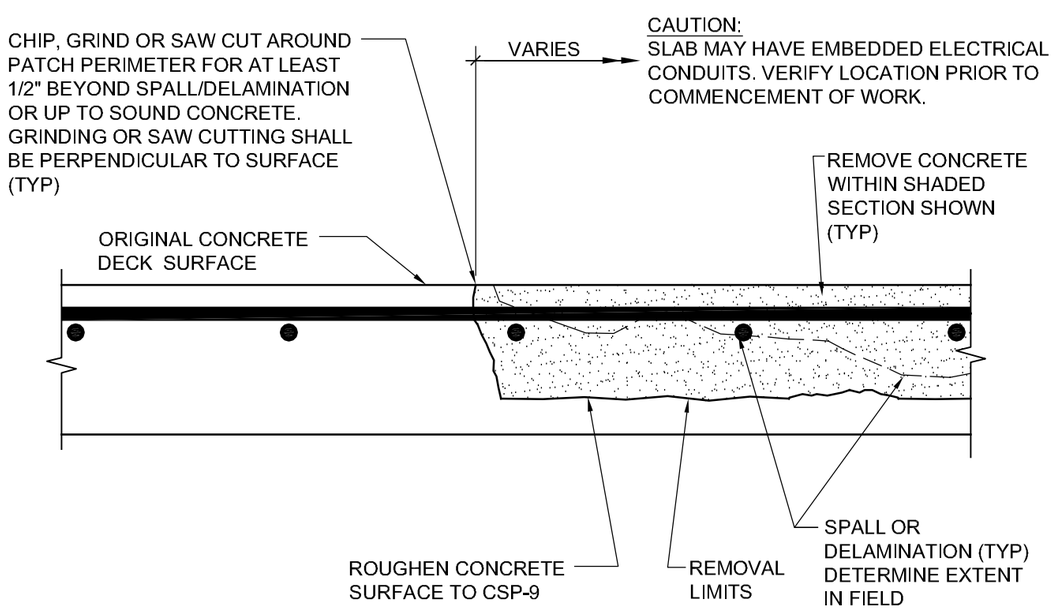
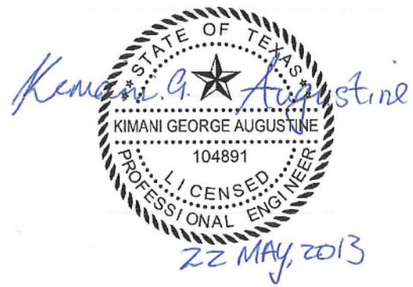


NOTES:
1. PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING, OR SAW CUTTING OR SPALL/DELAMINATION REPAIR.
2. REFER TO SPECIFICATIONS SECTION "SURFACE PREPARATION FOR PATCHING" FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT.
3. PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT 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 15% 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.
6. NEW PATH SHALL MATCH EXISTING FINISH.
7. DECK DIRECTION MAY VARY FROM WHAT IS SHOWN IN THIS DETAIL.
8. SEE SPECIFICATIONS FOR REPAIR MATERIALS.

1 TYPICAL - DECK REPAIR/REPLACEMENT - PATCH CONCRETE DECK

NTS

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



WALTER P MOORE
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