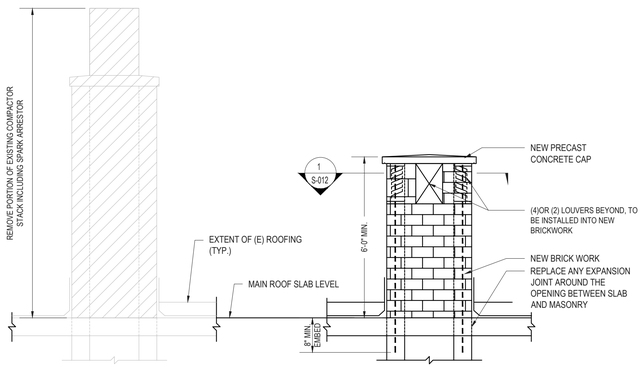
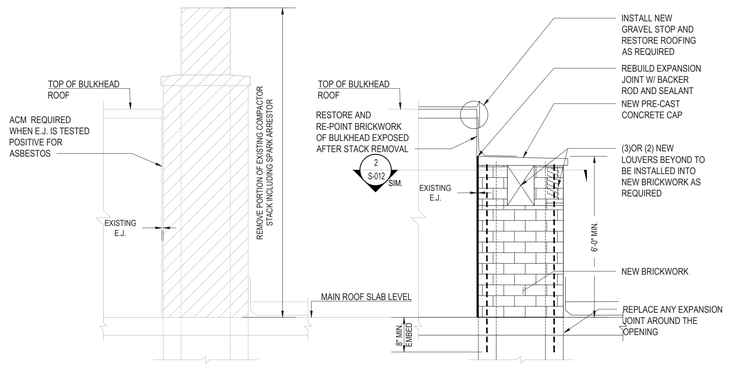


(E) COMPACTOR STACK ELEVATION

COMPACTOR STACK ELEVATION WITH (N) BRICKWORK

1 COMPACTOR STACK STANDS ALONE ON MAIN ROOF
SCALE: N.T.S.



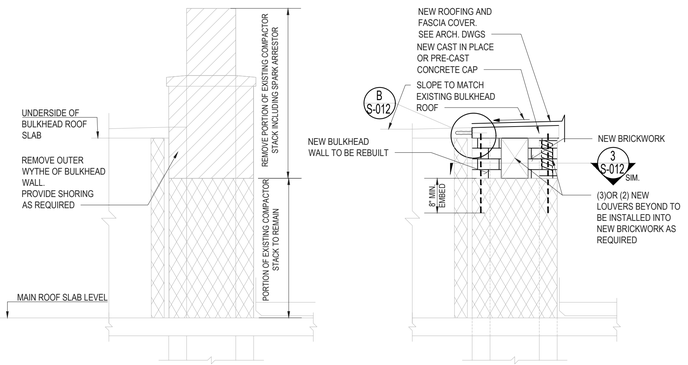
(E) COMPACTOR STACK ELEVATION

COMPACTOR STACK ELEVATION WITH (N) BRICKWORK

2 COMPACTOR STACK ADJACENT TO BULKHEAD (DETACHED, WITH E.J.)
SCALE: N.T.S

TABLE 1 - COMPACTOR STACK MODIFICATIONS BY CONDITION

COMPACTOR STACK CONDITION		BRICKWORK	REF. DETAIL S-011
A- PENETRATING MAIN ROOF	I NO ADJACENT ROOF STRUCTURES	1. DEMOLISH DOWN TO MAIN ROOF SLAB 2. REBUILD WALLS WITH LOUVERS 3. CAP WITH NEW PRECAST CAP SLOPED, OR CAST-IN-PLACE CONCRETE CAP USING FORM DECK. 4. INSTALL LOUVERS ON 4 (FOUR) SIDES.	1
B- OUTSIDE OF BULKHEAD	I FLUSH WITH OUTSIDE WALL WITH EXPANSION JOINT	1. FOLLOW A-I BRICKWORK STEPS 2. CAP WITH NEW PRECAST CAP SLOPED OR CAST-IN-PLACE CAP USING FORM DECK. 3. INSTALL LOUVERS ON 3 (THREE)SIDES	2
	II INTEGRAL WITH OUTSIDE STACK WALL WITHOUT EXPANSION JOINT	1. REMOVE THE COMPACTOR STACK DOWN TO ± 2'-6" BELOW THE UNDERSIDE OF THE BULKHEAD ROOF SLAB ON 3 EXTERIOR SIDES OF THE COMPACTOR STACK. 2. REMOVE OUTER WYTHE OF BULKHEAD WALL DOWN TO ± 2'-6" TO UNDERSIDE OF THE BULKHEAD ROOF SLAB. 3. REBUILD WALLS WITH LOUVERS ON 3 (THREE) SIDES. 4. CAP WITH NEW CAST IN PLACE CONCRETE CAP USING FORM DECK, SLOPED TO MATCH EXISTING BULKHEAD ROOF SLOPE.	3
	III FLUSH WITH OUTSIDE WALL WITH EXPANSION JOINT AND ENCLOSED INSIDE SMOKE ROOM	1. REMOVE/ ABATE EXISTING TOPPING SLAB AS REQUIRED AT SMOKE ROOM. 2. DEMOLISH SMOKE ROOM. 3. CUT THE STACK TO UNDERSIDE OF SMOKE SHELF AS NEEDED. 4. MAKE NEW OPENING W/LOUVER IN EXISTING BRICKS AS REQUIRED. INSTALL LOUVERS ON 3 (THREE) SIDES. 5. CAP WITH NEW PRECAST CONCRETE CAP SLOPED OR CAST-IN-PLACE CONCRETE CAP USING FORM DECK.	5
	IV INTEGRAL WITH OUTSIDE WALL WITHOUT EXPANSION JOINT AND ENCLOSED SMOKE ROOM	1. REMOVE /ABATE (E) TOPPING SLAB AS REQUIRED AT SMOKE ROOM. 2. DEMOLISH SMOKE ROOM. 3. DEMOLISH STACK TO TOP SIDE OF (E) CONCRETE SHELF INCLUDING BULKHEAD EXTERIOR BRICK VENEER THAT IS INTEGRAL WITH STACK. 4. REBUILD BULKHEAD VENEER AND PORTION OF BULKHEAD ROOF SLAB. 5. INSTALL CAP AS INDICATED ABOVE.	6
C - INSIDE OF BULKHEAD	I INTEGRAL WITH **ONE** OUTSIDE WALL	1. CUT TO UNDERSIDE OF BULKHEAD ROOF SLAB 2. CUT (E) BULKHEAD WALL AS REQUIRED 3. CAP WITH (N) CIP CONCRETE CAP, USING FORM DECK, SLOPED TO MATCH (E) BULKHEAD ROOF 4. EXTEND ROOFING OVER (N) CAP, SLOPE TO MATCH BULKHEAD ROOF 5. INSTALL **1 (ONE)** LOUVER AT EXTERIOR WALL	4 SIM.
	II INTEGRAL WITH **TWO** OUTSIDE WALLS	1. FOLLOW **C-I** BRICKWORK STEPS 2. INSTALL **2 (TWO)** LOUVER AT EXTERIOR WALLS 3. EXTEND ROOFING OVER (N) CAP, SLOPE TO MATCH BULKHEAD ROOF	4
	III DETACHED FROM OUTSIDE WALLS	1. FOLLOW **A-I** BRICKWORK STEPS	1 SIM.
D - ADJACENT TO AND INSIDE WATER TOWER ENCLOSURE.	I FLUSH W/ **ONE** ENCLOSURE WALL, DETACHED, INSIDE OR OUTSIDE ENCLOSURE WITH EXPANSION JOINT.	1. FOLLOW **B-I** BRICKWORK STEPS	2 SIM.
	II FLUSH W/ **TWO** ENCLOSURE WALLS, DETACHED, INSIDE WITH EXPANSION JOINT.	1. FOLLOW **A-I** BRICKWORK STEPS 2. PROVIDE LOUVERS ON **2 (TWO)** SIDES	2 SIM.
	III INSIDE ENCLOSURE, DETACHED WITH EXPANSION JOINT.	1. FOLLOW **B-I** BRICKWORK STEPS	2 SIM.
	IV INSIDE ENCLOSURE, PENETRATING ROOF.	1. FOLLOW **A-I** BRICKWORK STEPS	1 SIM.

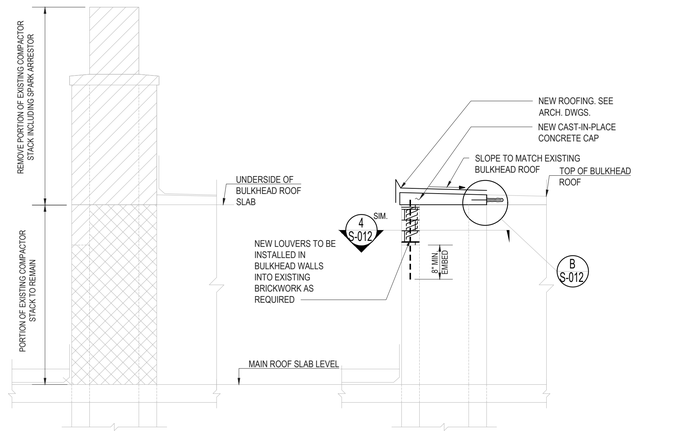


(E) COMPACTOR STACK ELEVATION

COMPACTOR STACK ELEVATION WITH (N) BRICKWORK

3 COMPACTOR STACK ADJACENT TO BULKHEAD (ATTACHED)
SCALE: N.T.S.

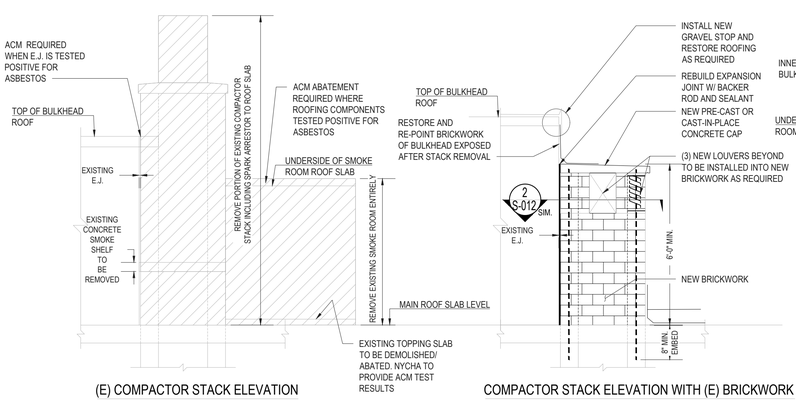
NOTE: (E) BULKHEAD WALL IS SHOWN AS CAVITY WALL.
VERIFY IN FIELD TYPE OF BULKHEAD WALL CONSTRUCTION.



(E) COMPACTOR STACK ELEVATION

COMPACTOR STACK ELEVATION WITH (N) LOUVERS IN (E) BRICKWORK

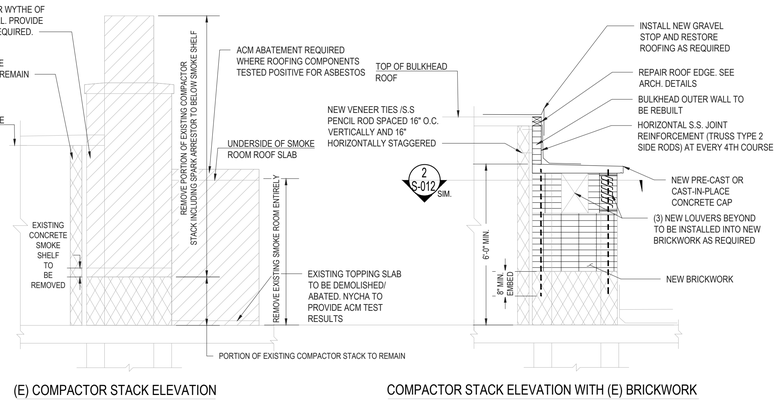
4 COMPACTOR STACK INSIDE OF BULKHEAD ONE SIDE INTEGRAL WITH BULKHEAD WALL
SCALE: N.T.S.



(E) COMPACTOR STACK ELEVATION

COMPACTOR STACK ELEVATION WITH (E) BRICKWORK

5 COMPACTOR STACK ADJACENT TO BULKHEAD (DETACHED, WITH E.J.) WITH SMOKE ROOM
SCALE: N.T.S.

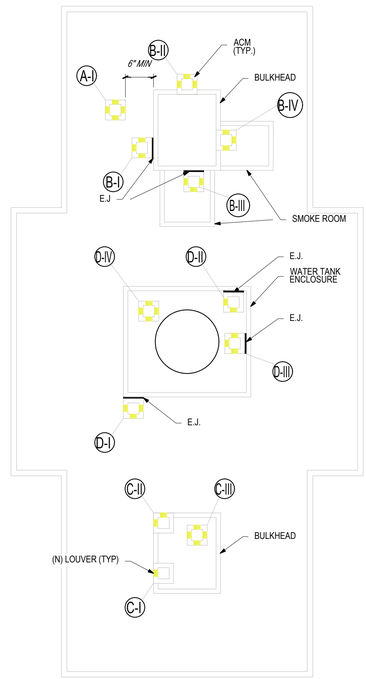


(E) COMPACTOR STACK ELEVATION

COMPACTOR STACK ELEVATION WITH (E) BRICKWORK

6 COMPACTOR STACK ADJACENT TO BULKHEAD (ATTACHED) WITH SMOKE ROOM
SCALE: N.T.S.

NOTE: (E) BULKHEAD WALL IS SHOWN AS CAVITY WALL.
VERIFY IN FIELD TYPE OF BULKHEAD WALL CONSTRUCTION.



SCHEMATIC ROOF PLAN WITH DIFFERENT COMPACTOR STACK LOCATIONS

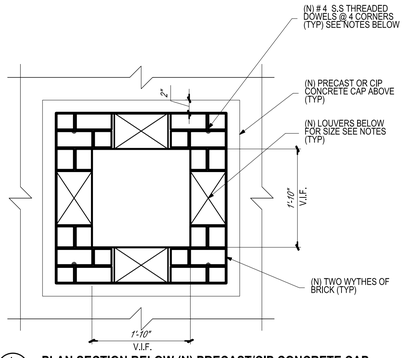
LEGEND:

- MASONRY TO BE REMOVED
- (E) MASONRY TO BE RETAINED
- NEW BRICKWORK

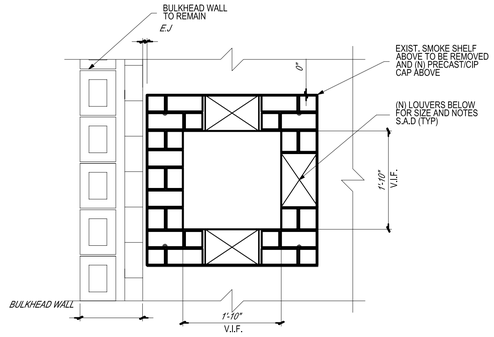
ABBREVIATIONS:

CIP	- CAST IN PLACE
E.J.	- EXPANSION JOINT
(E)	- EXISTING
(N)	- NEW
S.A.D	- SEE ARCHITECTURE DRAWINGS
S.S	- STAINLESS STEEL

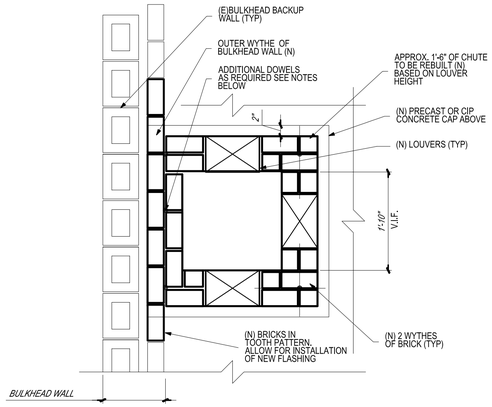
PROPOSED TYPICAL COMPACTOR STACK MODIFICATION DETAILS-I



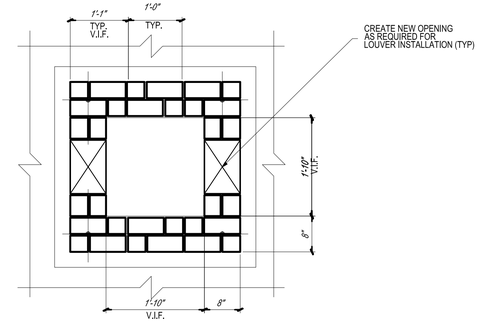
1 **PLAN SECTION BELOW (N) PRECAST/CIP CONCRETE CAP**



2 **PLAN SECTION BELOW (E) SMOKE SHELF**
SCALE: 1 1/2" = 1'-0"



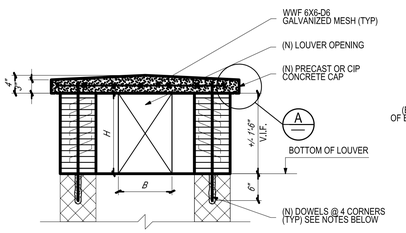
3 **PLAN SECTION BELOW (N) PRECAST/CIP CONCRETE CAP**
SCALE: 1 1/2" = 1'-0"



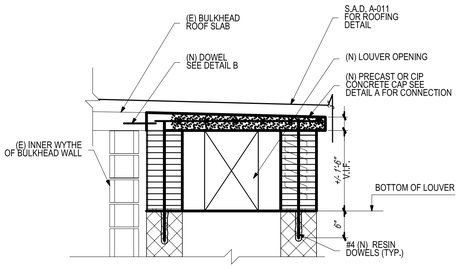
4 **PLAN SECTION OF (N) BRICKWORK WITH 2 LOUVERS**
SCALE: 1 1/2" = 1'-0"

NOTES:

1. PROVIDE DOWELS AT EACH CORNER OF THE NEW STACK. IF STACK DIMENSION EXCEEDS THREE FEET, INSTALL ADDITIONAL DOWELS AT 18" O.C.
2. DOWELS TO BE #4 EPOXY COATED BARS SET IN HILTI HY 270 OR EQUAL WITH 8" MIN EMBED FOR MASONRY, HILTI HY200 OR EQUAL FOR CONCRETE WITH 4" MIN. EMBEDMENT.
3. PROVIDE STAINLESS STEEL HORIZONTAL WALL REINFORCEMENT AT EVERY FOUR COURSE OF NEW BRICK WORK.
4. THE TOTAL NET CROSS SECTION AREA OF THE NEW LOUVERS IS TO MATCH INSIDE OPEN AREA OF THE COMPACTOR STACK.
5. (N) LOUVERS TO BE GALVANIZED STEEL OR ALUMINUM.
6. HEIGHT OF COMPACTOR STACK VENT ABOVE NEAREST ROOF TO BE SUCH THAT ROOFING FLASHING, SNOW DRIFT, LOUVERS CAN BE ACCOMMODATED.
7. ALL WORK INDICATED IS SUBJECT TO MASONRY SPECIAL INSPECTION.
8. TOP OF COMPACTOR STACK VENT CAP TO BE 6'-0" ABOVE FINISHED MAIN ROOF SURFACE.
9. WHERE POSSIBLE TWO LOUVERS MAX. ARE TO BE USED, THEY ARE TO BE INSTALLED ON OPPOSING FACES.
10. USE STANDARD LOUVER GREENHECK MODEL ESD-635X OR EQUAL.
11. PROVIDE WIRE MESH AND INSTALL IN FRAME BEHIND LOUVER AS SPARK ARRESTOR.
12. TO DETERMINE POSSIBLE DIMENSIONAL VARIATIONS, FIELD VERIFY SPECIFIC COMPACTOR STACK WIDTH AND LENGTH.
13. 9" MIN. MEASURED HORIZONTALLY FROM LOUVER FRAME TO EDGE OF COMPACTOR STACK SHALL BE MAINTAINED TO ALLOW FOR LOUVER ANCHORAGE TO BRICK WALL.
14. WHERE THE DIMENSIONS OF THE STACK DOES NOT ALLOW PROPOSED ORIENTATION OF LOUVER, IT MAY BE ROTATED 90° IF REQUIRED.
15. THESE DETAILS DO NOT COVER COMPACTOR STACKS WHEN ONE OR MORE OF THEIR EXTERIOR SURFACES ARE COINCIDENT WITH THE EXTERIOR ENVELOPE OF THE MAIN BUILDING SITUATION. THE EXTERIOR ENVELOPE OF THE MAIN BUILDING SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT NYCECC.
16. WORK DESCRIBED HERE DOES NOT PERMANENTLY AFFECT ENERGY PERFORMANCE OF BUILDING ENVELOPE.
17. INSTALL LOUVERS PLUMB, LEVEL, IN PLANE OF WALL, AND IN ALIGNMENT WITH ADJACENT WORK.
18. THE SUPPORTING STRUCTURE SHALL BE DESIGNED TO ACCOMMODATE THE POINT LOADS TRANSFERRED BY THE LOUVERS WHEN SUBJECT TO THE DESIGN WIND LOADS.
19. WIND LOADS: LOUVERS SHALL BE DESIGNED TO WITHSTAND THE EFFECTS OF WIND LOADS WITHOUT PERMANENT DEFORMATION OF LOUVER COMPONENTS, NOISE OR METAL FATIGUE CAUSED BY LOUVER- BLADE RATTLE OR FLUTTER, OR PERMANENT DAMAGE TO FASTENERS AND ANCHORS. DETERMINE WIND LOADS BASED ON A UNIFORM PRESSURE OF 40 PSF ACTING INWARD OR OUTWARD.
20. INSTALL JOINT SEALANT AS FOLLOWS:
    A. ONE-PART LOW -MEDIUM MODULUS SILICONE SEALANT (PLUS OR MINUS 50% MOVEMENT); ASTM C920 CLASSIFICATIONS TYPE S, GRADE NS, CLASS 25, USES NT, M, G, AND A: GENERAL ELECTRIC SILPRUF, DOW CORNING'S 791, PECORA'S 864, SONNEBORN'S OMNISEAL, TREMCO SPECTREM 2. A. SILICONES SHALL MEET THE FOLLOWING REQUIREMENTS:
        i. ASTM C719 - LOW-MEDIUM MODULUS (+OR-50%). SEALANTS SHALL NOT EXHIBIT ANY CRACKING OR SURFACE DEGRADATION AFTER 5000 HOURS EXPOSURE IN THE ATLAS TWIN ARC WEATHEROMETER.
        ii. ASTM C661- SHALL NOT INCUR A DUROMETER INCREASE GREATER THAN 10 POINTS.
        iii. SEALANT SHALL CONTAIN ZERO PARTS OF TOXIC ISOCYANURATE INGREDIENTS.
    B. PROVIDE COUSTOM COLORS FOR USE AROUND OPENING PERIMETERS, TO MATCH FRAME OR MASONRY.
    C. THOROUGHLY CLEAN SURFACES ON WHICH SEALANT IS TO BE APPLIED AND PRINE SURFACES AS RECOMMENDED BY MANUACTURER BEFORE APPLYING SEALANT.
    D. MANUFACTURERS
        i. DOW CORNING CORP., MIDLAND, MICHGAN 48686
        ii. PECORA CORP., HARLEYVILLE, PA
        iii. TREMCO SEALING AND COATINGS, WADING RIVER, NY 11792
        iv. SIKA CORPORATION, LYNHURST, NJ 07071



5 **(N) BRICKWORK AND PRECAST CAP SECTION**
SCALE: 1 1/2" = 1'-0"



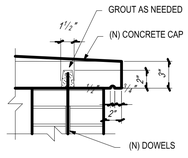
6 **(N) BRICKWORK AND PRECAST CAP SECTION**
SCALE: 1 1/2" = 1'-0"

TABLE 1 - REQUIRED LOUVER SIZES BASED ON 50% FREE AIR (ADJUST DIMENSIONS AS NEEDED)

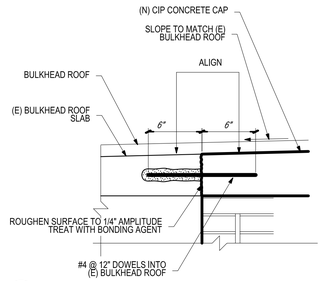
COMPACTOR STACK FREE AIR AREA (IN²)	ONE SIDE LOUVER BXH	TWO SIDES LOUVERS BXH	THREE SIDES LOUVERS BXH	FOUR SIDES LOUVERS BXH
LESS THAN 500	2'-0" X 2'-0"	2'-0" X 2'-0"	2'-0" X 1'-6"	1'-6" X 1'-6"
500-1000	2'-0" X 3'-6"	2'-0" X 3'-0"	2'-0" X 2'-6"	2'-0" X 2'-0"
1000-1200	2'-0" X 4'-6"	3'-0" X 3'-0"	3'-0" X 2'-0"	2'-6" X 2'-0"

TABLE 2 - ENERGY ANALYSIS FOR ALTERATION - CLIMATE ZONE 4A (ENVELOPE ONLY)

ECCNYC 2014	ITEM DESCRIPTION	WORK LOCATION	PROPOSED DESIGN VALUE	CODE PRESCRIBED VALUE	COMMENTS
NYCDOB TECH BULLETIN BB2010-0153, INTERPRETATION OF SECTION 101.4.3 OF NYCECC WITH REGARDS TO ADDITIONS, ALTERATIONS, REPAIRS --- REPAIR WORK NEED NOT COMPLY IF APPLICANT CAN DEMONSTRATE --- COMPLIANCE WOULD CREATE HAZARD --- OR OVERLOAD EXISTING BUILDING SYSTEM.	ENVELOPE. MASONRY REPAIR AT SPANDREL BEAMS.	ROOF EDGE & SPANDREL BEAM. TEMPORARY ROOFING. REFER TO DOB NOTE ON DWG. T-001.00	N/A	N/A	TEMPORARY ROOFING SYSTEM, MEANS AND METHODS TO REPLACE PARAPET. REFER TO ARCHITECTURAL ROOFING DRAWINGS FILED SEPARATELY.



A **(N) PRECAST CAP DETAIL**
SCALE: 3" = 1'-0"



B **(N) PRECAST CAP ANCHORING DETAIL**

LEGEND:

- MASONRY TO BE REMOVED
- (E) MASONRY TO BE RETAINED
- NEW BRICKWORK

ABBREVIATIONS:

CIP	- CAST IN PLACE
E.J.	- EXPANSION JOINT
(E)	- EXISTING
(N)	- NEW
S.A.D	- SEE ARCHITECTURE DRAWINGS
S.S	- STAINLESS STEEL

09/23/2015 0

PROPOSED TYPICAL COMPACTOR STACK MODIFICATION DETAILS -II

T.MELNIKOV / M.ELZOGHABY

S-012