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U.S. EMBASSY, ATHENS  
 CHANCERY COLUMN REHABILITATION MOCK-UP  
 19-06-2015  
 FINAL SUBMISSION



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 OVERSEAS BUILDINGS OPERATIONS  
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U.S. EMBASSY  
 CHANCERY COLUMN  
 REHABILITATION MOCK-UP  
 for  
 ATHENS  
 GREECE

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 ATTN: Peter Gulbranson  
 Washington, DC 20520

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Revisions		

**AnnBeha Architects**  
 33 Kingston Street  
 Boston, MA 02111  
 U.S.A.  
 Tel. +1 617.338.3000  
 Fax. +1 617.482.9097

**Doxiadis Associates**  
 15, Argiroi & Simeta str.  
 GR 14564 New Filippia, Athens - Greece  
 Tel. +30 210 6246300 - Fax +30 210 6246399

Release For Construction:  OBO/PROJ/PC

Drawing Title  
**TITLE PAGE  
 DRAWING INDEX**

OBO Project Number	Drawing Scale	Phase
S-AQMM-14-C-0023	1:1	
CADD File Name	CADD Plot Scale	<input type="checkbox"/> CONCEPT <input type="checkbox"/> 30% <input type="checkbox"/> 60% <input type="checkbox"/> 90% <input checked="" type="checkbox"/> FINAL
ATH EOB G001	1:1	

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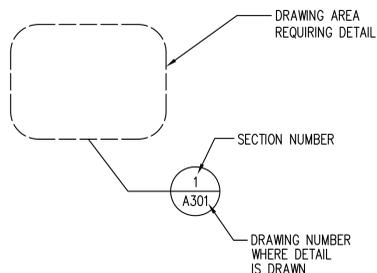


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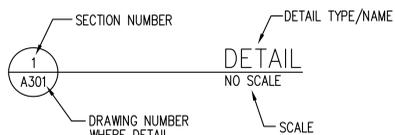
### U.S. EMBASSY CHANCERY COLUMN REHABILITATION MOCK-UP for ATHENS GREECE

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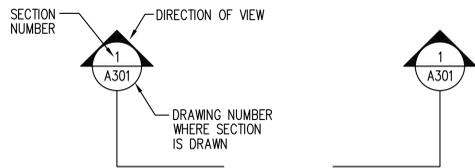
#### SYMBOLS



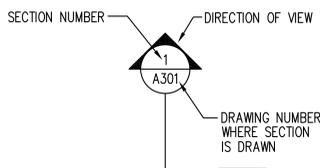
DETAIL INDICATOR



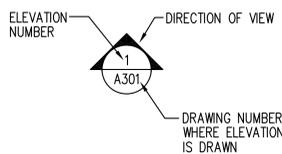
DETAIL TITLE



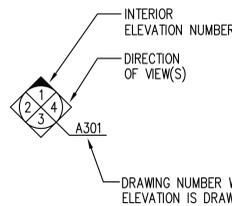
BUILDING SECTION INDICATOR



WALL SECTION INDICATOR



BUILDING ELEVATION INDICATOR



INTERIOR ELEVATION INDICATOR

#### ABBREVIATIONS

&	AND	G	GUTTER	RA	RETURN AIR
@	ANGLE	GA	GAUGE	RAF	RESILIENT ATHLETIC FLOORING
Ø	AT	GAL	GALLON	RAS	ANTI-STATIC RUBBER
Ø	CENTER LINE	GALV	GALVANIZED	RAD/r	RADIUS
Ø	DIAMETER	GB	GRAB BAR OR GYPSUM BOARD	RB	RUBBER BASE
Ø	PLATE	GC	GENERAL CONTRACTOR	RCP	REFLECTED CEILING PLAN
#	FOUND/NUMBER	GFE	GOVERNMENT FURNISHED EQUIPMENT	RD	ROOF DRAIN
ABV	ABOVE	GL	GLASS/GLAZED	REBAR	REINFORCING BAR
A/C	AIR CONDITIONING	GOVT	GOVERNMENT	REC	RECEPTACLE
AC	ASPHALT CONCRETE	GND	GROUND	REF	REFERENCE
ACOUS	ACOUSTICAL	GR	GRADING/GRADE	REGIS	REGISTRATION
ADJ	ADJUSTABLE	GWB	GYPSUM WALLBOARD	REINF	REINFORCING/REINFORCED
AFF	ABOVE FINISHED FLOOR	GYP BD	GYPSUM BOARD	REM	REMOVE
AFR	ANTI-FATIGUE RUBBER	HC	HOLLOW CORE	REPL	REPLACE
AHU	AIR HANDLING UNIT	HD	HEAD/HEAVY DUTY	REQD	REQUIRED
ALT	ALTERNATE	HDWD	HARDWOOD	RESIL	RESILIENT
ALUM	ALUMINUM	HDWR	HARDWARE	RET	RETURN
ANC	ANCHOR	HH	HAND HOLE	REV	REVISE/REVISION
ANOD	ANODIZED	HM	HOLLOW METAL	RF	ROUGH FINISH
APPROX	APPROXIMATE	HOR	HORIZONTAL	RGS	RIGID GALVANIZED STEEL
ARCH	ARCHITECTURAL	HP	HORSEPOWER	RH	RIGHT HAND
ASPH	ASPHALT	HR	HOUR	RM	ROOM
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	HTG	HEATING/HEAT	RO	ROUGH OPENING
ATTCH	ATTACHMENT	HT/H	HEIGHT/HIGH	RWL	RAIN WATER LEADER
AUTO	AUTOMATIC	HVAC	HEATING, VENTILATING & AIR CONDITIONING	RWD	REDWOOD
AUX	AUXILIARY	HZ	HERTZ	S	SOUTH
B	BASE	ID	INSIDE DIAMETER/	SA	SUPPLY AIR
BB	BASE BID	IG	INTERIOR DIMENSION	SAC	SUSPENDED ACOUSTICAL
BC	BRICK COURSE	IIC	INSULATED GLASS	SC	SOLID CORE
BD	BOARD	IN	IMPACT INSULATION CLASS	SCH	SCHEDULE
BF	BROOM FINISH	INCL	INCLUDING	SOC	SIDING
BLD	BUILDING LINE	INFO	INFORMATION	SECT	SECTION
BLKG	BLOCKING	INSUL	INSULATION	SF	SEAMLESS FLOORING
BLKHD	BULKHEAD	INT	INTERIOR	SG(#)	DUST SECURITY GRILLE (TYPE #)
BM	BEAM/BENCHMARK	JAN	JANITOR	SH	SHelf
BO	BY OTHERS	JAMB	JAMB	SHTH	SHEATHING
BOT	BOTTOM	JST	JOIST	SIM	SIMILAR
BP	BEARING PLATE	JT	JOINT	SJ	STEEL JOIST
BS	BOTH SIDES	KD	KNOCK DOWN/	SM	SURFACE MOUNTED
BSMT	BASEMENT	KILN DRIED	KILN DRIED	SPEC	SPECIFICATION
BTWN	BETWEEN	KIT	KITCHEN	SQ	SQUARE
BUR	BUILT-UP ROOF	KO	KNOCK OUT	SQ YD	SQUARE YARD
C	CONDUIT	KPA	KILOPASCAL	SQ FT	SQUARE FOOT
CAB	CABINET	KW	KILOWATT	SS	STAINLESS STEEL
CAP	CAPACITY	L	LONG	ST	STONE
CAT	CATALOG	L/S	LITERS PER SECOND	STA	STATION
CB	CIRCUIT BREAKER OR CATCH BASIN	LAM	LAMINATE(D)	STD	STANDARD
CCTV	CLOSED CIRCUIT TELEVISION	LB	POUND/LOAD BEARING	STL	STEEL
CEM	CEMENT OR CEMENTITIOUS	LBL	LABEL	SUSP	SUSPENDED
CF	CUBIC FEET	LF	LINEAR FEET	SV	SHEET VINYL
CH	CEILING HEIGHT	LG	LONG/LENGTH	SW	SWITCH
CI	CAST IRON	LH	LEFT HAND	SYM	SYMMETRICAL
CIR	CIRCUMFERENCE	LI	LIVE LOAD	SYS	SYSTEM
CLG	CEILING	LP	LOW POINT	SHT, SH	SHEET
CLR	CLEAR	LNS	LINOLEUM SHEET	STOR	STORAGE
CM	CENTIMETER	LNT	LINOLEUM TILE	STRUCT	STRUCTURAL
CMU	CONCRETE MASONRY UNIT	LT	LIGHT	T	TREAD/THICK
CO	CLEAN OUT/CASED OPENING	LTC	LIGHT	TB	TOWEL BAR
COL	COLUMN	MAS	MASONRY	TC	TOP OF CURB
CONC	CONCRETE	MAT/MATL	MATERIAL	TELE	TELEPHONE
CONSTR	CONSTRUCTION	MAX	MAXIMUM	TEMP	TEMPORARY
CONT	CONTINUOUS	MECH	MECHANICAL	TF	TROWEL FINISH
CORR	CORRIDOR	MED	MEDIUM	T&G	TONGUE & GROOVE
CP	CHROME PLATED	MEMB	MEMBRANE	THK	THICKNESS
CPT	CARPET TILE	MET/MTL	METAL	THR	THRESHOLD
CS	COUNTERSINK	MFR	MANUFACTURER	THRU	THROUGH
CSMT	CASEMENT	MH	MOUNTING HEIGHT	TO	TOP OF
CT	CERAMIC TILE	MIN	MINIMUM	TOC	TOP OF CONCRETE
CTR	CENTER	MIR	MIRROR	TOS	TOP OF SLAB/STEEL
CWG	CLEAR WIRE GLASS	MISC	MISCELLANEOUS	TOW	TOP OF WALL
CY	CUBIC YARDS	MIX	MIXTURE	TYP	TYPICAL
D	DEPTH	ML	MATCH LINE	UC	UNDERCUT
DBL	DOUBLE	MLD	MOLDING	UL	UNDERWRITERS' LABORATORIES
DEMO	DEMOLISH/DEMOLITION	MM	MILLIMETER	UNF	UNFINISHED
DET	DETAIL	MO	MASONRY OPENING	UNO	UNLESS NOTED OTHERWISE
DF	DRINKING FOUNTAIN	MS	MOTOR STARTER	V	VENT/VOLT/VALVE
DC	DAY GATE	MT	MARBLE THRESHOLD	(V)	VERIFY
DH	DOUBLE HUNG	MTD	MOUNTED	VAV	VARIABLE AIR VOLUME
DIA	DIAMETER	MTG	MOUNTING	VB	VAPOR BARRIER
DIM	DIMENSION	MULL	MULLION	VD	VOLUME DAMPER OR VAULT DOOR
DISP	DISPENSER	N	NORTH	VENTD	VENTILATED
DL	DEAD LOAD	N/A	NOT APPLICABLE	VERT	VERTICAL
DN	DOWN	NIC	NOT IN CONTRACT	VEST	VESTIBULE
DP	DAMP-PROOFING	NLB	NON-LOAD BEARING	V-JOINT	V-JOINT
DR	DOOR	NO	NUMBER	VOL	VOLUME
DS	DOWNSPOUT	NOM	NOMINAL	VT	VINYL TILE
DWG	DRAWING	NTS	NOT TO SCALE	VWC	VINYL WALL COVERING
DWR	DRAWER	OC	ON CENTER	WD	WOOD
(E)	EXISTING	OD	OUTSIDE DIAMETER	XFMR	TRANSFORMER
E	EAST	OFF	OFFICE		
EA	EACH	OH	OVERHEAD		
EF	EACH FACE	OPHD	OPPOSITE HAND		
EG	FOR EXAMPLE	OPNG	OPENING		
EGG	EPOXY GLAZED COATING	OPP	OPPOSITE		
EJ	EXPANSION JOINT	OZ	OUNCE(S)		
ELEC	ELECTRICAL	PA	PASCAL		
ELEV	ELEVATION	PC	PORTLAND CEMENT		
ENCL	ENCLOSURE	PCF	POUNDS PER CUBIC FOOT		
ENTR	ENTRANCE	PF	POLISH FINISH		
EQ	EQUAL	PFB	PREFABRICATE		
EQUIP	EQUIPMENT	PLAM	PLASTIC LAMINATE		
ESC	ESCALATOR	PLAS	PLASTER		
EST	ESTIMATED	PLF	POUNDS PER LINEAR FOOT		
EW	EACH WAY	PNL	PANEL		
EXH	EXHAUST	PNT	PAINT		
EXIST	EXISTING	POLY	POLYETHYLENE		
EXP	EXPANSION/EXPANDED	PR	PRESSURE TREATED		
EXT	EXTERIOR	PRESS TR	PRESSURE TREATED		
F	FLAME/FLUSH	PRF	PREFINISHED		
FA	FIRE ALARM	PSF	POUNDS PER SQUARE FOOT		
FBG	FOIL BACKED GYP	PT	POINT		
FDN	FOUNDATION	PRCST	PRECAST		
FE/BR	FORCED ENTRY/BALLISTIC RESISTANT	PVC	POLYVINYL CHLORIDE		
FEW	FIRE EXTINGUISHER WALL MOUNTED	PWD	PLYWOOD		
FIG	FIGURE	PTN	PARTITION		
FIN	FINISH	QT	QUARRY TILE		
FIXT	FIXTURE	QTB	QUARRY TILE BASE		
FL	FLASH FLOOR	QUAL	QUALITY		
FLEX	FLEXIBLE				
FLUOR	FLUORESCENT				
FM	FACTORY MUTUAL RESEARCH CORP.				
FO	FACE OF				
FRT	FIRE RETARDANT TREATED				
FT	FOOT/FEET				
FTG	FOOTING				
FURN	FURNITURE/FURNISHED				
FURR	FURRING				

#### MATERIALS

	EARTH
	GRAVEL
	CAST IN PLACE OR PRE CAST CONCRETE
	STEEL
	BRONZE
	ROUGH WOOD
	PLYWOOD
	GYPSUM WALL BOARD
	BATT INSULATION
	STYROFOAM INSULATION
	FINISH WOOD
	ACOUSTIC PANEL
	BRICK
	CONCRETE BLOCK
	STONE
	AWT-#
	ALUMINUM
	CARPET
	TERRAZZO
	WATERPROOFING, DAMPPROOFING, VAPOR BARRIER AND/OR ROOFING
	MORTAR
	EXISTING TO REMAIN

#### GENERAL NOTES:

- THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS SHALL COMPLEMENT EACH OTHER AND SHALL BE CONSIDERED AN INTEGRAL PART OF THE ARCHITECTURAL REQUIREMENTS FOR THIS PROJECT. DISCREPANCIES BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT DIRECTOR/COR FOR CLARIFICATION BEFORE COMMENCING WORK. IN THE CASE OF CONFLICTS BETWEEN THE DRAWINGS AND SPECIFICATIONS THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- THESE NOTES APPLY TO CONTRACTORS, SUBCONTRACTORS, MANUFACTURERS, SUPPLIERS, FABRICATORS, ERECTORS, ETC. ENGAGED IN THE EXECUTION OF WORK INDICATED ON THESE DRAWINGS.
- IN THE EVENT THAT CERTAIN DETAILS OF THE CONSTRUCTION ARE NOT FULLY SHOWN OR NOTED ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME TYPE AS FOR SIMILAR CONDITIONS WHICH ARE SHOWN AND NOTED, SUBJECT TO THE PROJECT DIRECTOR/COR'S REVIEW.
- VERIFY ALL EXISTING CONDITIONS RELATED TO THE WORK BEFORE COMMENCING WORK. NOTIFY THE PROJECT DIRECTOR/COR IMMEDIATELY OF ANY DISCREPANCIES.
- TAKE ALL NECESSARY PRECAUTIONS TO PREVENT ANY DAMAGE TO EXISTING ADJACENT STRUCTURES AND UTILITIES. PROTECT NEW CONSTRUCTION FROM DAMAGE BY CONSTRUCTION EQUIPMENT. REPAIR ALL DAMAGE CAUSED BY CONSTRUCTION TECHNIQUES.
- ALL DIMENSIONS AND ELEVATIONS INDICATED ON THE ARCHITECTURAL DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR AND SHALL BE COORDINATED WITH THOSE INDICATED ON THE STRUCTURAL DRAWINGS. REPORT ALL DISCREPANCIES TO THE PROJECT DIRECTOR/COR FOR RESOLUTION BEFORE PROCEEDING.
- VERIFY IF LOCATIONS AND DIMENSIONS OF ALL CHASES, SLOTS, INSERTS, CURBS, OPENINGS, SLEEVES, ANCHOR BOLTS, FLOOR PITCHES, ANGLE FRAMES, AND ALL OTHER PROJECT REQUIREMENTS NOT SHOWN ON ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL SUBMIT COORDINATED SHOP DRAWINGS INDICATING ALL OF THESE ITEMS.
- REPRODUCTION OF ANY PORTION OF THE ARCHITECTURAL DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED. SHOP DRAWINGS SUBMITTED FOR ARCHITECTURAL REVIEW SHALL CONSIST OF PDF'S.
- SUBMIT SHOP DRAWINGS AT LEAST 15 BUSINESS DAYS PRIOR TO THE DATE WHICH REVIEW SUBMITTALS WILL BE REQUIRED. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL WHICH SHALL CONSTITUTE CERTIFICATION THAT HE HAS VERIFIED ALL FIELD MEASUREMENTS, CONSTRUCTION CRITERIA, MATERIALS AND SIMILAR DATA, AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- PROVIDE ANY ALTERATIONS AND/OR ADDITIONAL COMPONENTS NEEDED TO ACCOMMODATE THE INSTALLATION OF EQUIPMENT OF ANY NATURE. ALSO, COORDINATE SUCH WORK WITH THE EQUIPMENT SUPPLIER. INCORPORATE SUCH REFINEMENTS ON THE SHOP DRAWINGS AND OBTAIN THE EQUIPMENT SUPPLIER'S APPROVAL (CLEARLY DISPLAYED ON SHOP DRAWINGS) PRIOR TO SUBMITTING THE SHOP DRAWINGS TO THE PROJECT DIRECTOR/COR FOR REVIEW.
- NO CHANGES IN SIZE OR DIMENSIONS OF ARCHITECTURAL ELEMENTS SHALL BE PERMITTED WITHOUT THE REVIEW OF THE PROJECT DIRECTOR/COR. CHANGES SHALL BE AT NO COST TO THE GOVERNMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR THE "MEANS AND METHODS" OF CONSTRUCTION FOR THE COMPLETION OF THE WORK. HE SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING, SHORING AND PROTECTING ALL WORK (NEW AND EXISTING) DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, SETTLEMENT, OR COLLAPSE. HE SHALL ALSO BE SOLELY RESPONSIBLE FOR IMPLEMENTING JOB SITE SAFETY.
- ALL DIMENSIONS WITHOUT A DECIMAL ARE IN MILLIMETERS; ALL DIMENSIONS WITH A DECIMAL ARE IN METERS, UNLESS NOTED OTHERWISE.
- DO NOT SCALE DRAWINGS.
- ALL COSTS OF INVESTIGATION AND/OR REDESIGN, DUE TO CONTRACTOR'S MISLOCATION OF ARCHITECTURAL ELEMENTS OR OTHER LACK OF CONFORMANCE WITH THE PROJECT DOCUMENTS, SHALL BE AT NO COST TO THE GOVERNMENT.

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Revisions		
<p><b>AnnBeha Architects</b> 33 Kingston Street Boston, MA 02111 U.S.A. Tel. +1 617.338.3000 Fax. +1 617.482.9097</p>		
<p><b>ABA</b> Doxiadis Associates 15, Argosto &amp; Simola str. GR-1456 New Filippou, Athens - Greece Tel. +30 210 6246300 - Fax +30 210 6246399</p>		
<p>Release For Construction: <input type="checkbox"/> 06/19/2015</p>		
<p>Drawing Title: <b>DRAWING SYMBOLS ABBREVIATIONS</b></p>		
000 Project Number	Drawing Scale	Phase
S-AQMA-14-C-0023	1:1	
CADD File Name	CADD Plot Scale	<input type="checkbox"/> DWG <input type="checkbox"/> PDF <input type="checkbox"/> PLOT <input type="checkbox"/> PLOT
ATH_EOB_G002	1:1	
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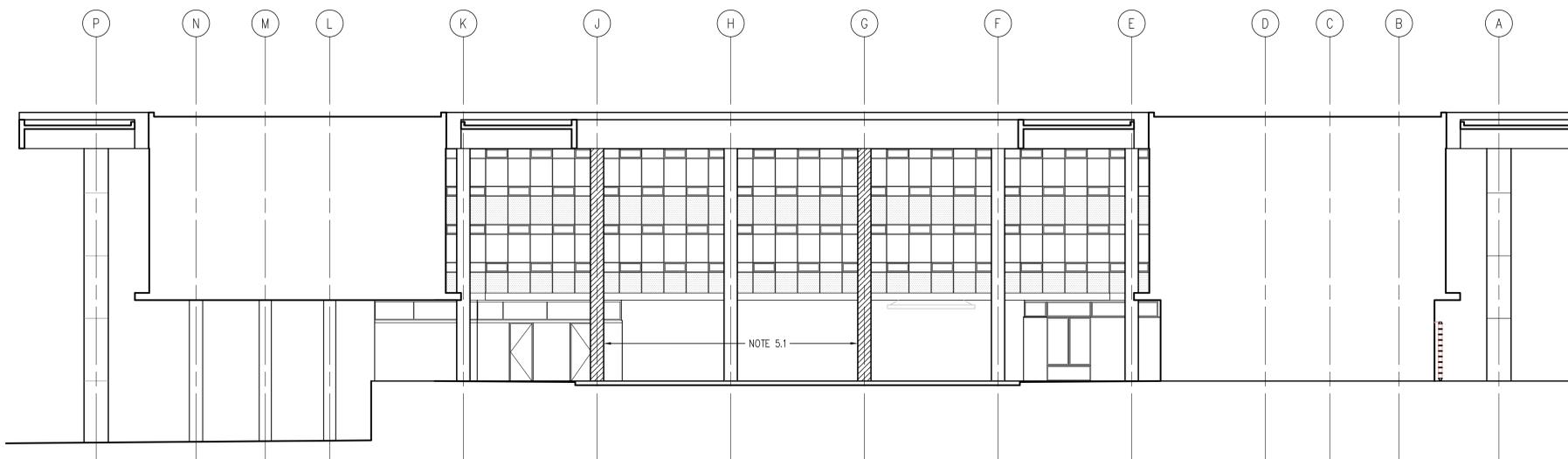
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

MASONRY CLEANING TEST NOTES

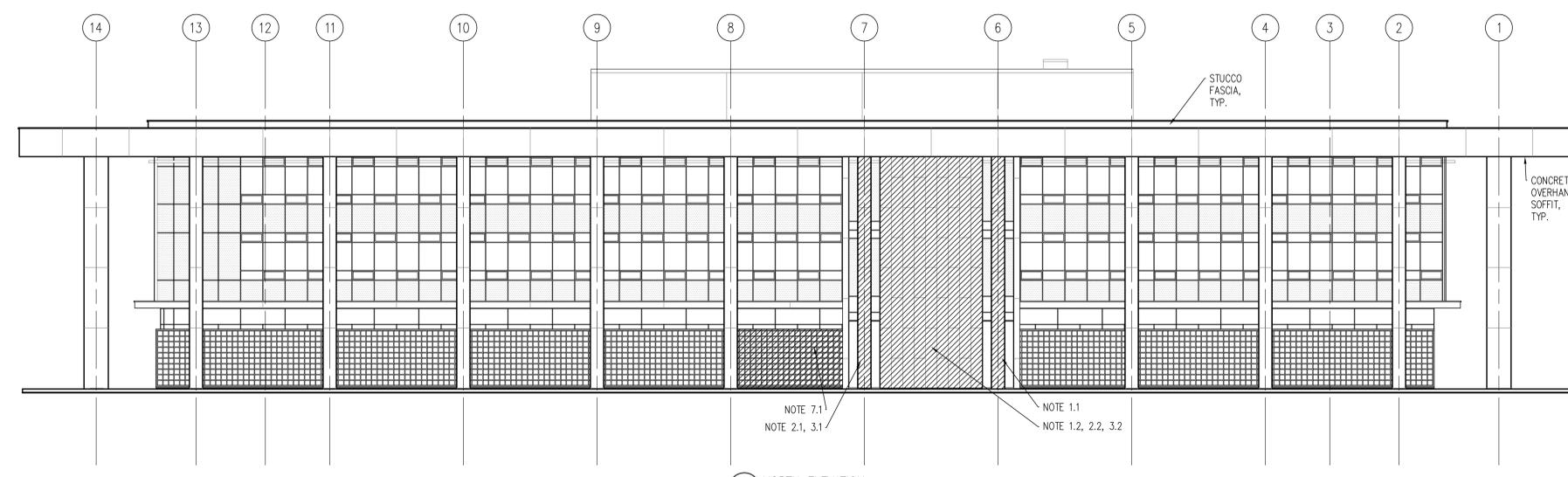
REFER TO SECTION 040140 - MASONRY CLEANING TESTS FOR FURTHER INFORMATION.  
FINAL LOCATIONS TO BE COORDINATED WITH A/E ON SITE

1. CLEANING TEST TO REMOVE GENERAL SOILING USING WATER MISTING AND MEDIUM PRESSURE WATER RINSING.
  - 1.1. PENTELIC MARBLE: COLUMN A6.
  - 1.2. SANTA MARINA MARBLE: NORTH ELEVATION WALL.
2. CLEANING TEST TO REMOVE GENERAL SOILING USING MICRO-ABRASIVE CLEANING SYSTEM
  - 2.1. PENTELIC MARBLE: COLUMN A7.
  - 2.2. SANTA MARINA MARBLE: NORTH ELEVATION WALL.
3. CLEANING TEST TO REMOVE GENERAL SOILING USING MEDIUM PRESSURE HOT WATER (STEAM) CLEANING.
  - 3.1. PENTELIC MARBLE: COLUMN A7.
  - 3.2. SANTA MARINA MARBLE: NORTH ELEVATION WALL.
4. CLEANING TEST TO REMOVE GENERAL SOILING FROM MASONRY AT MARBLE PODIUM USING POULTICE CLEANERS, CHEMICAL CLEANERS, AND WATER RINSING.
  - 4.1. WORK TO BE PERFORMED ON BLACK MARBLE AT SOUTH CORNER OF EAST ELEVATION.
5. CLEANING TEST TO REMOVE DARK STAINS FROM MASONRY USING POULTICE CLEANERS.
  - 5.1. WORK TO BE PERFORMED IN COURTYARD AT COLUMNS G5 OR J5
6. CLEANING TEST TO REMOVE WATER STAINS AND SALT DEPOSITS FROM MARBLE FASCIA PANELS USING POULTICES AND MECHANICAL METHODS.
  - 6.1. PENTELIC MARBLE: FASCIA OF BALCONY BETWEEN COLUMNS J14 AND K14.
7. CLEANING TEST TO REMOVE GENERAL SOILING FROM CERAMIC SUN SCREENS USING CHEMICAL CLEANER AND PRESSURIZED WATER RINSING.
  - 7.1. WORK TO BE PERFORMED BETWEEN COLUMNS A7 AND A8.
8. STRIP PAINT AND COATINGS FROM CONCRETE OVERHANG SOFFIT AND FASCIA. LOCATION TO BE COORDINATED WITH OBO, POST AND A/E ON SITE.
9. STRIP PAINT AND COATINGS FROM STUCCO FASCIA. LOCATION TO BE COORDINATED WITH OBO, POST AND A/E ON SITE.
10. PROTECT WINDOW OPENINGS, DOOR OPENINGS, AND OTHER OPENINGS IN BUILDING EXTERIOR FROM WATER ENTRY AND PROTECTING ADJACENT MATERIALS DURING CLEANING TESTS.

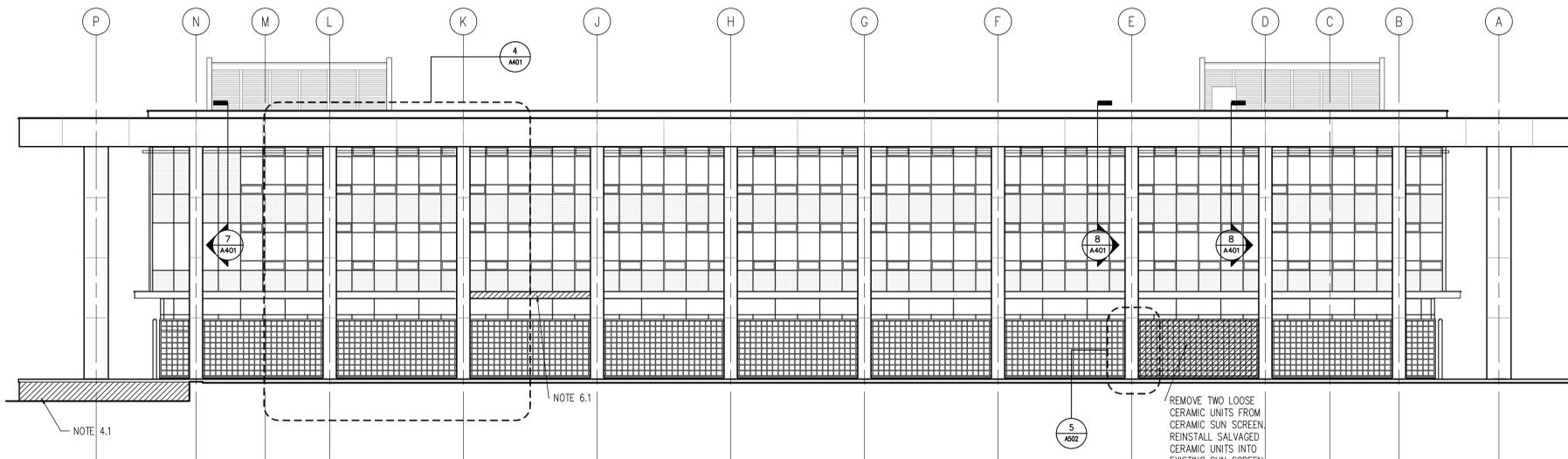
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3 COURTYARD ELEVATION LOOKING WEST  
A201 1:100



2 NORTH ELEVATION  
A201 1:100



1 EAST ELEVATION  
A201 1:100

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17



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33 Kingston Street  
Boston, MA 02111  
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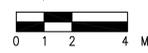
**Doxiadis Associates**  
15, Argiroi & Simeta str.  
GR 1456 New Missia, Athens - Greece  
Tel. +30 210 6246300 - Fax +30 210 6246399

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Drawing Title  
**EXTERIOR ELEVATIONS**

OBO Project Number: S-AQ/MMA-14-C-0023  
Drawing Scale: 1:100  
Phase:  CONCEPT  30%  60%  90%  FINAL  
CADD File Name: ATH\_EOB\_A201  
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Date: 06/19/2015	Sheet Number: <b>EOB A201</b>
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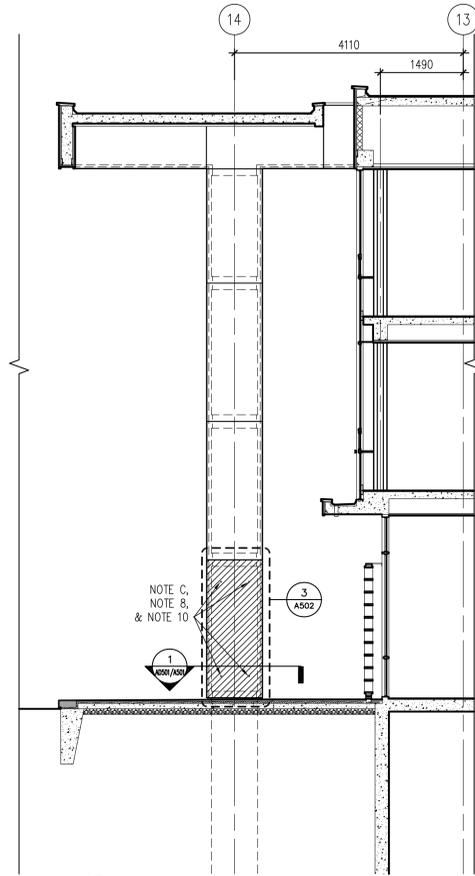
SELECTIVE REMOVAL AND SALVAGE NOTES:  
REFER TO SECTION 024193 - SELECTIVE REMOVAL AND SALVAGE FOR FURTHER INFORMATION.

- A. REMOVE EXISTING MARBLE PANELS INDICATED. THE CONTRACTOR SHALL TAKE CARE TO REMOVE THE STONE WITHOUT BREAKING IF AT ALL POSSIBLE. AFTER REMOVING THE MARBLE PANELS, REMOVE MORTAR FROM THE REAR FACE OF THE MARBLE PANELS BY WHATEVER MEANS ARE NECESSARY THAT WILL NOT DAMAGE THE STONE. STORE MARBLE PANELS FOR FUTURE REINSTALLATION. IF MARBLE PANEL(S) BREAK DURING REMOVAL, RETAIN ALL PIECES OF PANEL(S) FOR INSPECTIONS AND REPAIR. REMOVE ALL EXISTING MORTAR TO EXPOSE THE EXISTING CONCRETE COLUMN. RETAIN SAMPLES OF MORTAR FOR INSPECTION AND ANALYSIS, REMOVE EXISTING BRASS SUPPORT ANGLES AND PINS AND RETAIN FOR INSPECTION. REINSTALL PANEL (SEE NOTE 6).
- B. REMOVE EXISTING TEMPORARY PROTECTION PANEL AT LOCATION OF PREVIOUSLY REMOVED MARBLE PANEL. PROVIDE NEW MARBLE PANEL (SEE NOTE 6).
- C. REMOVE EXISTING PINS AND RETAIN FOR INSPECTION. NOTE LOCATION OF PINS, SIZE, METAL TYPE, DEPTH OF EMBEDMENT, AND SETTING MATERIAL.
- D. REMOVE EXISTING MARBLE PAVING & DIVIDER STRIPS ALONG WITH TERRAZZO PAVING AT INDICATED LOCATIONS. THE CONTRACTOR SHALL TAKE CARE TO REMOVE THE MATERIALS WITHOUT BREAKING IF AT ALL POSSIBLE. STORE REMOVED MATERIALS FOR FUTURE REINSTALLATION.
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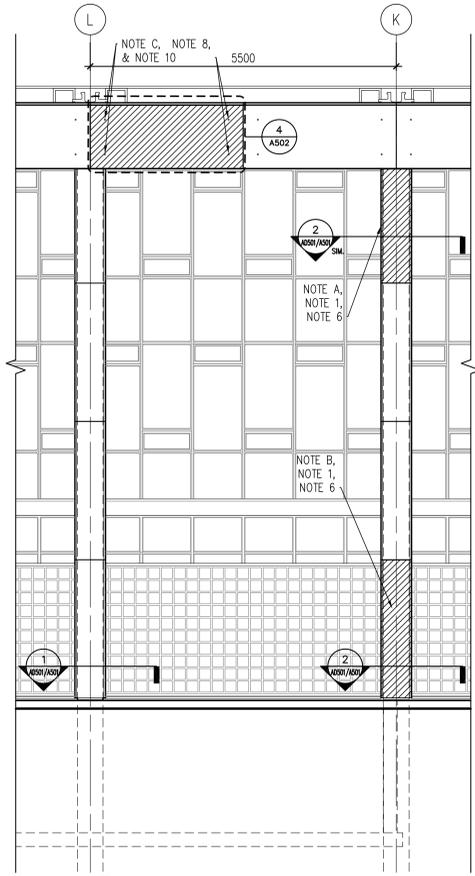
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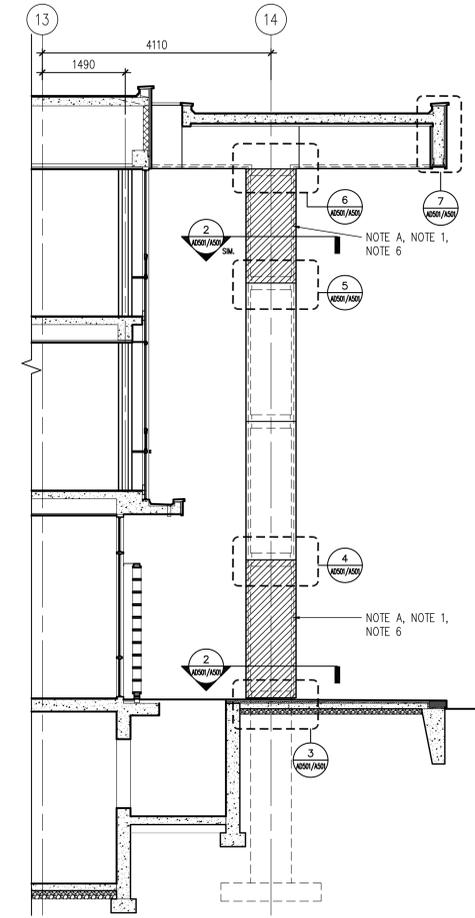
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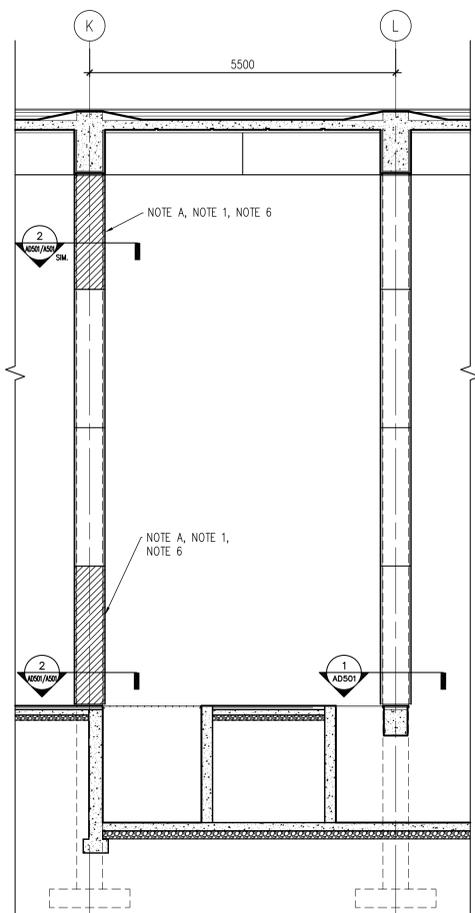
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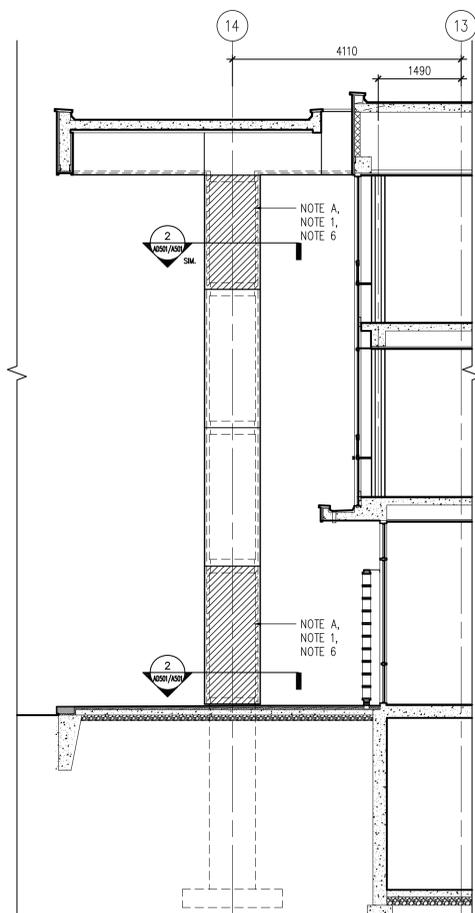
4 ENLARGED EAST ELEVATION



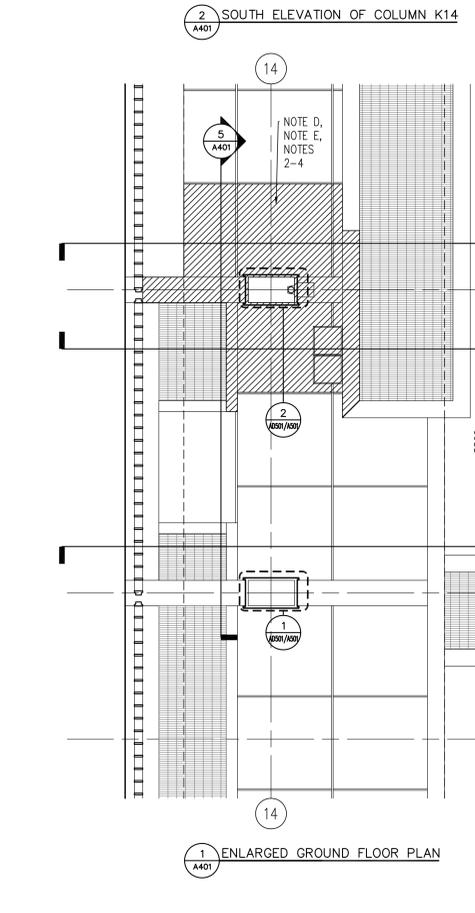
2 SOUTH ELEVATION OF COLUMN K14



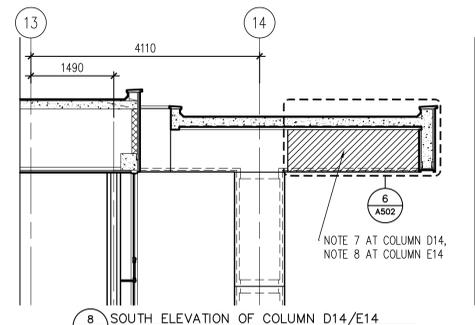
5 ENLARGED WEST ELEVATION



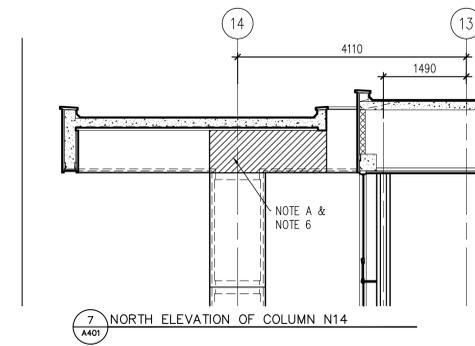
3 NORTH ELEVATION OF COLUMN K14



1 ENLARGED GROUND FLOOR PLAN



8 SOUTH ELEVATION OF COLUMN D14/E14



7 NORTH ELEVATION OF COLUMN N14



**U.S. EMBASSY  
CHANCERY COLUMN  
REHABILITATION MOCK-UP  
for  
ATHENS  
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Rev Number	Description	Date

**AnnBeha Architects**  
33 Kingston Street  
Boston, MA 02111  
U.S.A.  
Tel. +1 617.338.3000  
Fax. +1 617.482.9097

**Doxiadis Associates**  
15, Agiostri & Simeti str.  
GR 1456 New Filioia, Athens - Greece  
Tel. +30 210 6246300 - Fax +30 210 6246399

Release For Construction:  OBO/PROCS/PC

**ENLARGED PLAN  
AND ELEVATIONS**

OBO Project Number	Drawing Scale	Phase
S-AQ/MMA-14-C-0023	1:50	
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ATH_EOB_A401	1:1	

Date	06/19/2015	Sheet Number
Drawn By	SAW	<b>EOB A401</b>
Checked By	RFP	
Project Number	01315.01	Classification
		UNCLASSIFIED



UNCLASSIFIED

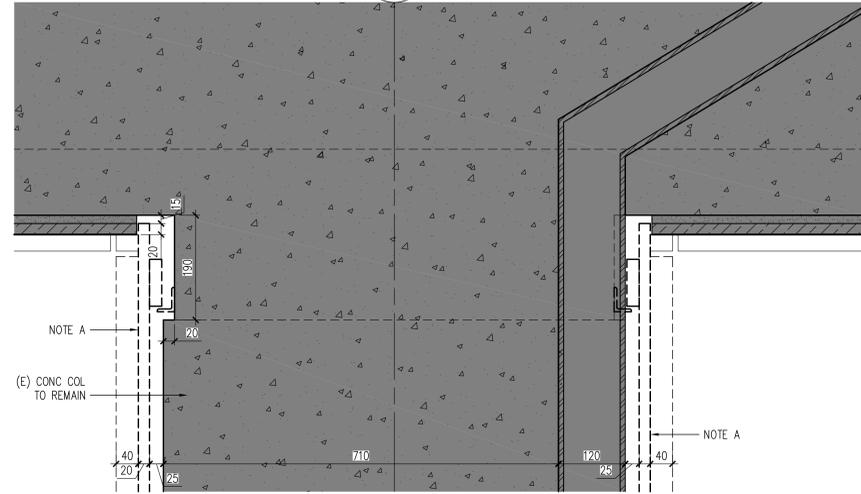
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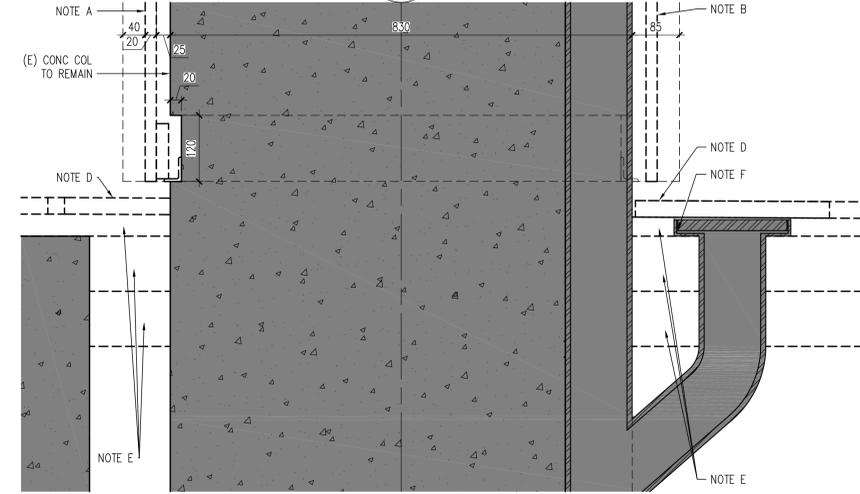
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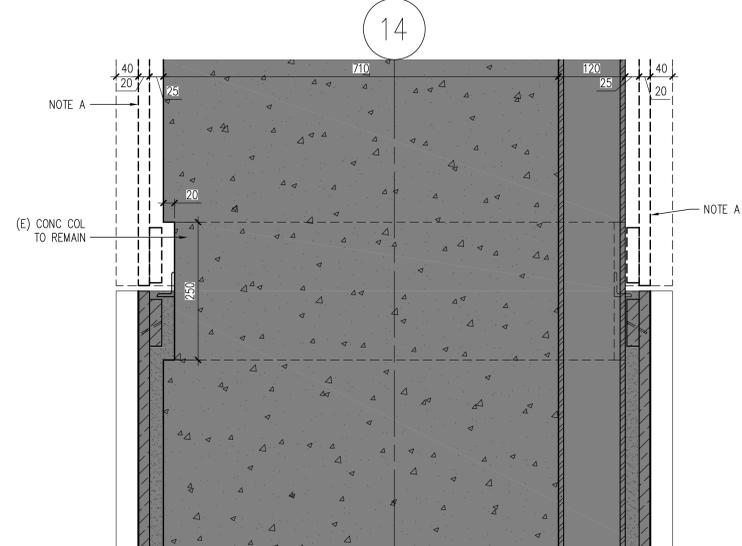
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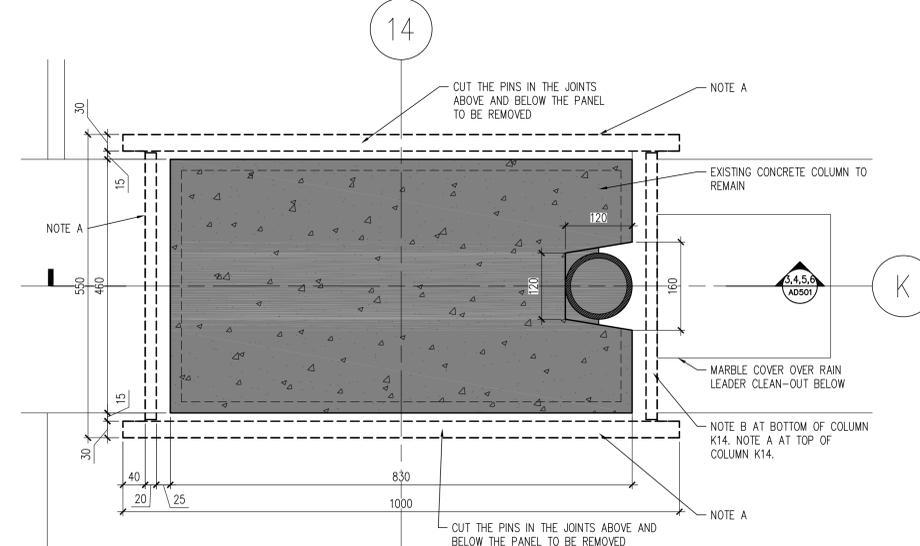
6 SECTION DETAIL AT COLUMN K14 - TOP OF TOP PANEL  
AD501 1:5



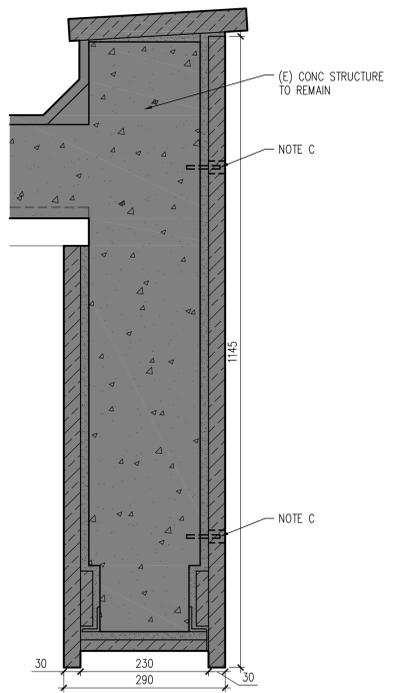
3 SECTION DETAIL AT COLUMN K14 - BOTTOM OF BOTTOM PANEL  
AD501 1:5



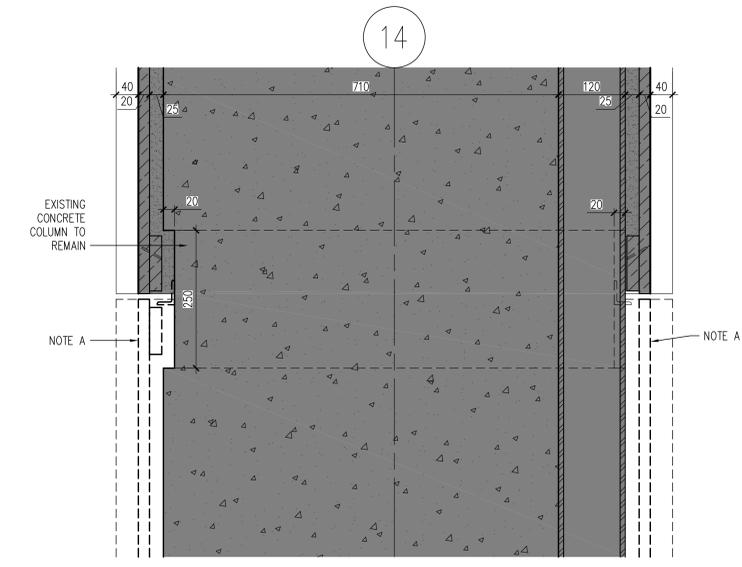
5 SECTION DETAIL AT COLUMN K14 - BOTTOM OF TOP PANEL  
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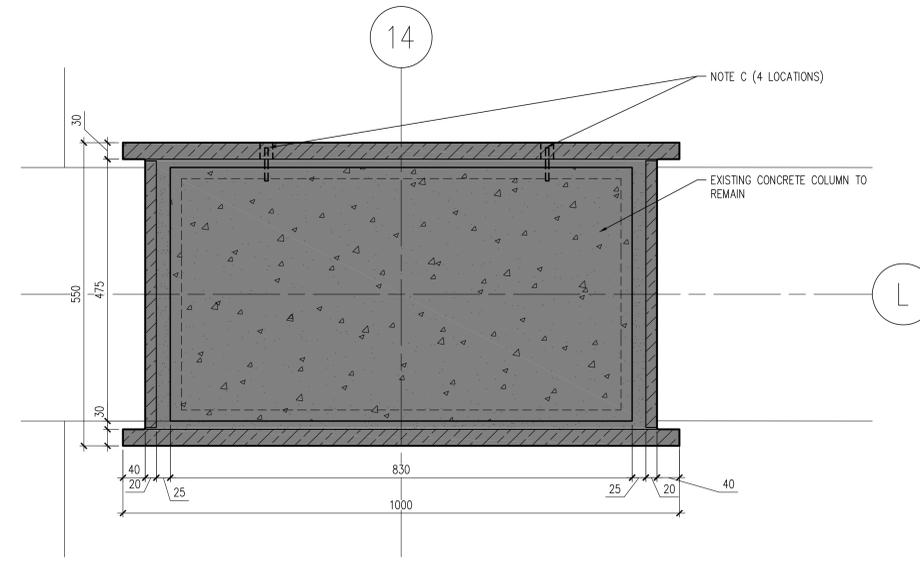
2 PLAN DETAIL AT COLUMN K14  
AD501 1:5



7 SECTION DETAIL AT ROOF OVERHANG FASCIA  
AD501 1:5



4 SECTION DETAIL AT COLUMN K14 - TOP OF BOTTOM PANEL  
AD501 1:5



1 PLAN DETAIL AT COLUMN L14  
AD501 1:5

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Rev Number	Description	Date
Revisions		

**AnnBeha Architects**  
33 Kingston Street  
Boston, MA 02111  
U.S.A.  
Tel. +1 617.338.3000  
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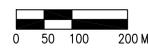
**Doxiadis Associates**  
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**SELECTIVE REMOVAL  
& SALVAGE DETAILS**

OBO Project Number: S-AQ/MMA-14-C-0023 Drawing Scale: 1:5 Phase:  CONCEPT  30%  60%  90%  100%  FINAL  
CADD File Name: ATH\_EOB\_AD501 CADD Plot Scale: 1:1

Date: 06/19/2015	Sheet Number: <b>EOB AD501</b>
Drawn By: SAW	
Checked By: RFP	
Project Number: 01315.01	
Classification: UNCLASSIFIED	



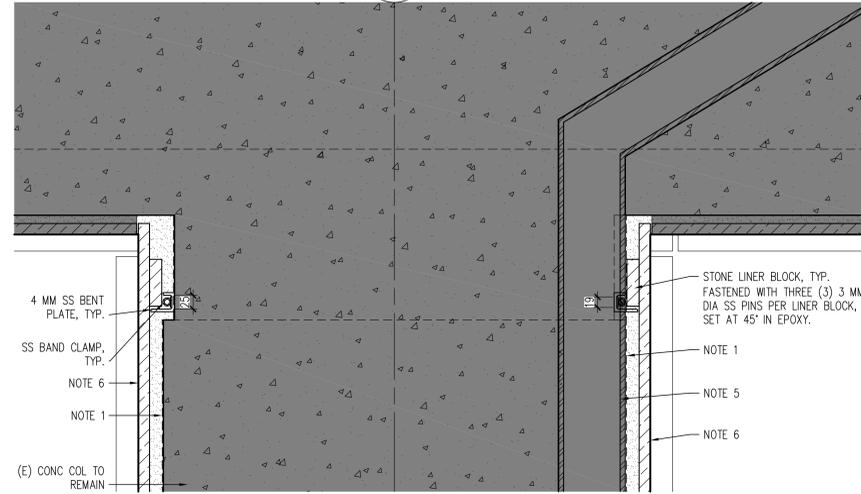
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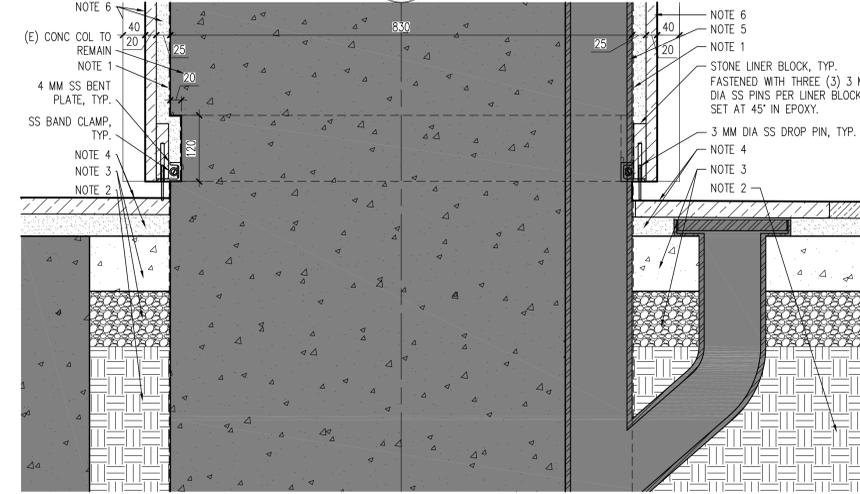
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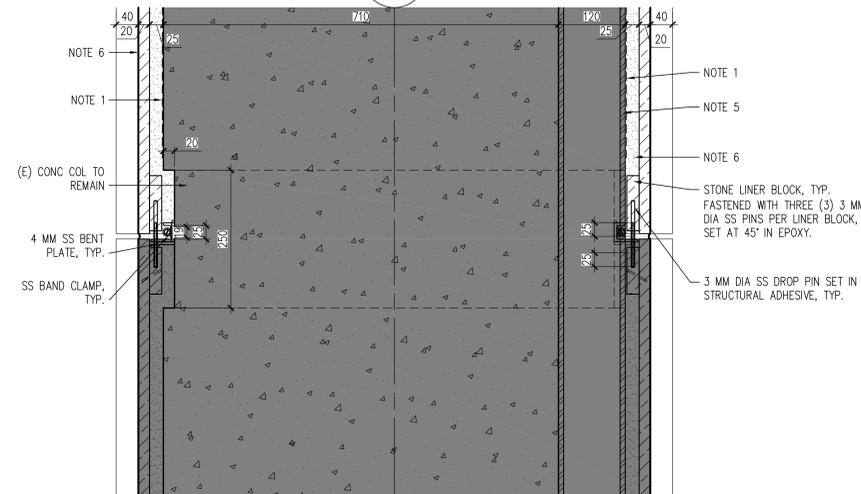
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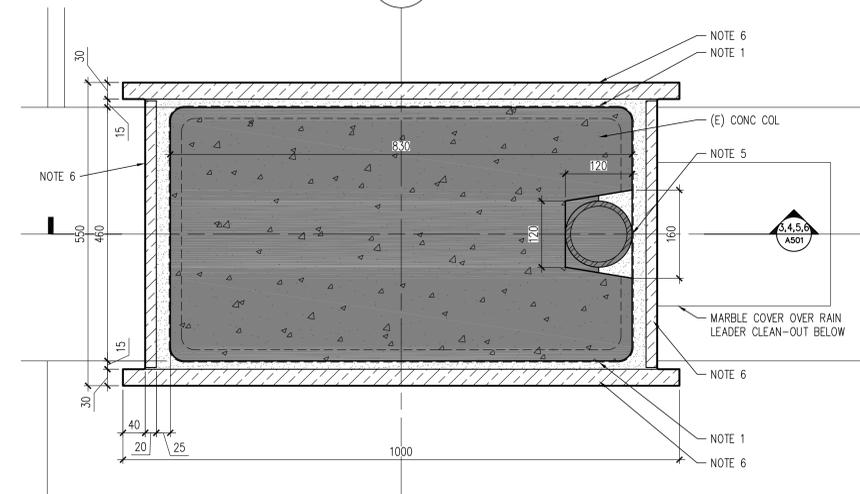
6 SECTION DETAIL AT COLUMN K14 - TOP OF TOP PANEL  
A501 1:5



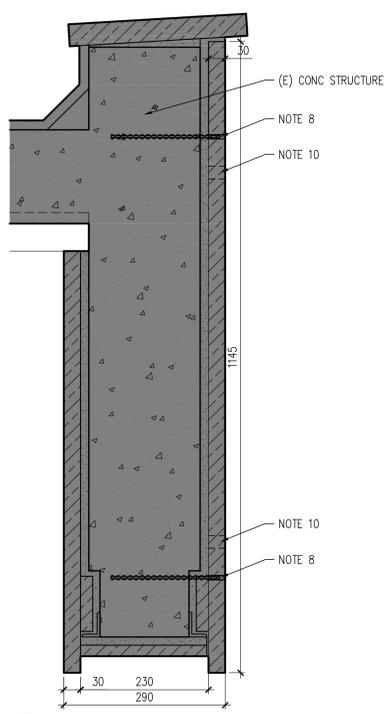
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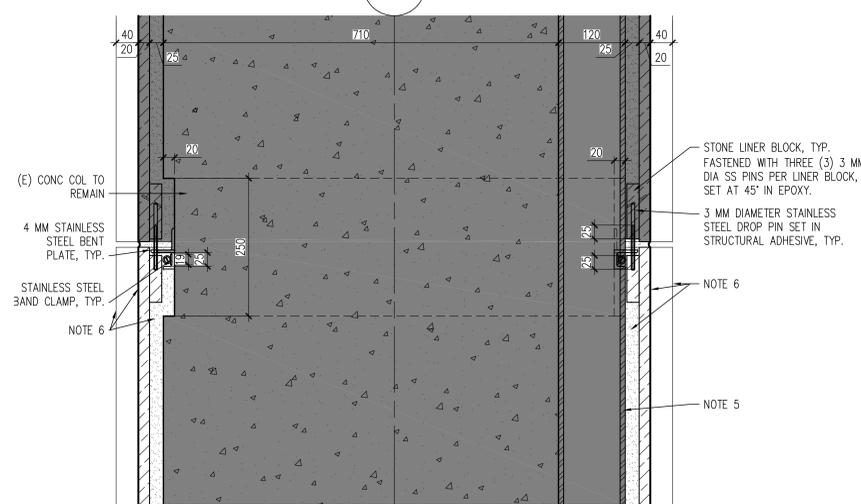
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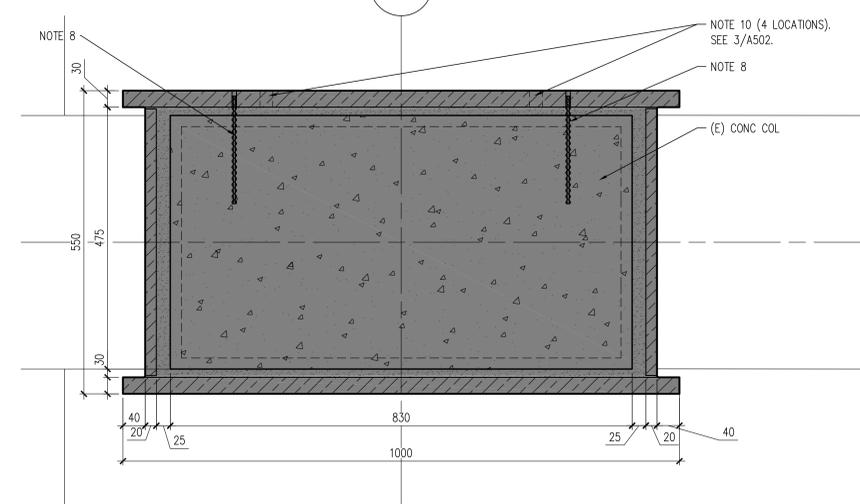
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4 SECTION DETAIL AT COLUMN K14 - TOP OF BOTTOM PANEL  
A501 1:5



1 PLAN DETAIL AT COLUMN L14  
A501 1:5



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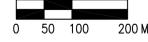
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**MASONRY RESTORATION  
DETAILS**

OBO Project Number: S-AQMM-14-C-0023  
Drawing Scale: 1:5  
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CADD File Name: ATH\_EOB\_A501  
CADD Plot Scale: 1:1

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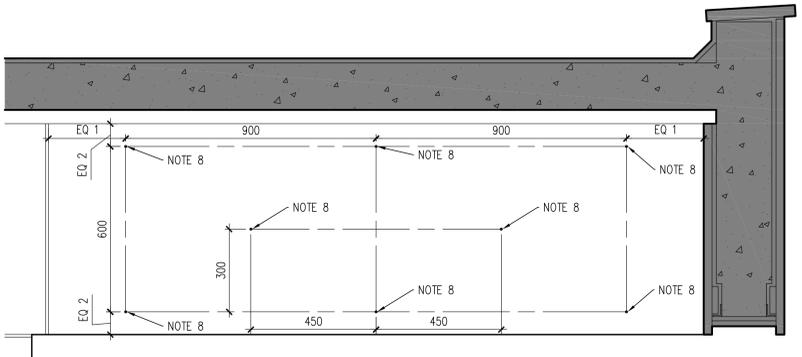
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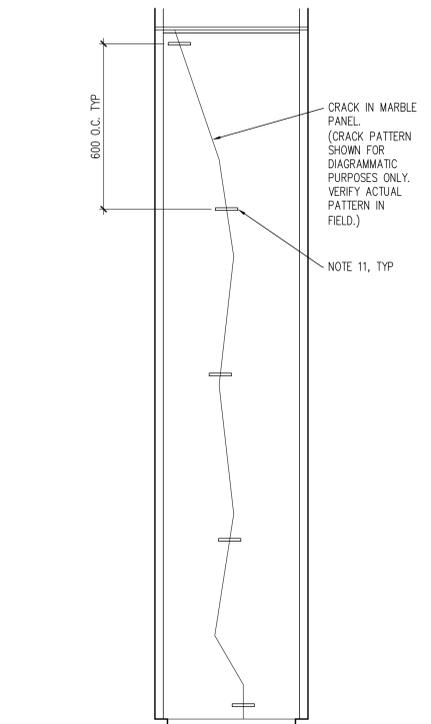
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- 9. REINSTALL SALVAGED CERAMIC UNITS INTO EXISTING SUN SCREENS.
- 10. PROVIDE STONE DUTCHMAN AT LOCATIONS OF REMOVED PINS IDENTIFIED FOR REMOVAL IN NOTE C.
- 11. PROVIDE NEW ANCHORS ACROSS CRACKS. SEE DETAIL 1/A502.

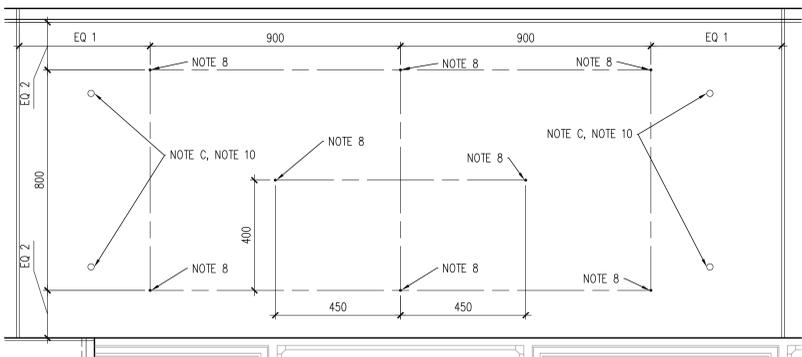
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**6 HELICAL TIE SPACING AT COLUMN E14 BEAM PANEL**  
A502 1:10

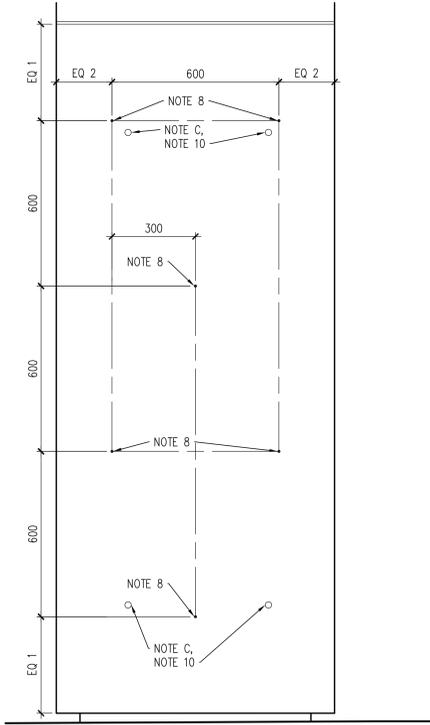


**5 STAPLE ANCHOR REPAIR SPACING AT CRACKED PANEL**  
A502 1:10

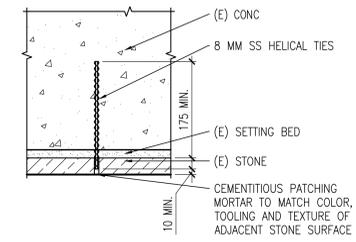


**4 HELICAL TIE SPACING AT FASCIA PANEL**  
A502 1:10

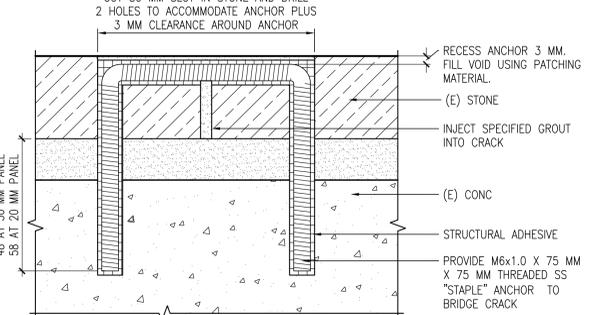
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**3 HELICAL TIE SPACING AT COLUMN PANEL**  
A502 1:10



**2 PINNING STONE WITH HELICAL TIES**  
A502 1:5



**1 STAPLE ANCHOR REPAIR AT CRACKED STONE**  
A502 1:1



United States Department of State  
OVERSEAS BUILDINGS OPERATIONS  
Washington, D.C.

**U.S. EMBASSY  
CHANCERY COLUMN  
REHABILITATION MOCK-UP  
for  
ATHENS  
GREECE**

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Washington, DC 20520

Rev Number	Description	Date

**AnnBeha Architects**  
33 Kingston Street  
Boston, MA 02111  
U.S.A.  
Tel. +1 617.338.3000  
Fax. +1 617.482.9097

**Doxiadis Associates**  
15, Agiostri & Simeti str.  
GR 1456 New Mikri, Athens - Greece  
Tel. +30 210 6246300 - Fax +30 210 6246399

Release For Construction:  OBO/PROJ/OC

**MASONRY RESTORATION  
DETAILS**

OBO Project Number: S-AQ/MA-14-C-0023 AS NOTED  
Drawing Scale: AS NOTED  
CAD File Name: ATH\_EOB\_A502  
CAD Plot Scale:  CONCEPT  30%  50%  100%  FINAL  
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Drawn By: SAW  
Checked By: RFP  
Project Number: 01315.01  
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UNCLASSIFIED

A. CODES AND STANDARDS

THE FOLLOWING CODES AND STANDARDS, INCLUDING SPECIFICATIONS REFERENCED WITHIN, SHALL APPLY TO THE DESIGN, CONSTRUCTION QUALITY CONTROL AND SAFETY OF ALL WORK PERFORMED ON THIS PROJECT:

- 1. DESIGN IS IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (IBC) 2009 AS MODIFIED IN THE DEPARTMENT OF STATE (DOS) 2013 OVERSEAS BUILDING OPERATIONS (OBO) DESIGN STANDARDS.
2. ASCE/SEI STANDARD 7-05: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
3. AMERICAN CONCRETE INSTITUTE, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," METRIC VERSION, ACI 318M-08, EXCEPT AS MODIFIED BY THE 2013 OBO DESIGN STANDARDS.
4. AMERICAN CONCRETE INSTITUTE, "GUIDE FOR THE DESIGN AND CONSTRUCTION OF EXTERNALLY BONDED FRP SYSTEMS FOR STRENGTHENING CONCRETE STRUCTURES", ACI 440.2R-08.
5. AMERICAN CONCRETE INSTITUTE, "USE OF EPOXY COMPOUNDS WITH CONCRETE," ACI 503R-93.
6. CONCRETE REINFORCING STEEL INSTITUTE (CRSI) 2006).
7. AMERICAN WELDING SOCIETY (AWS) STRUCTURAL WELDING CODE - REINFORCING STEEL, ANSIAWS D1.4-05.
8. UNITED STATES DEPARTMENT OF DEFENSE UNITED FACILITIES CRITERIA (UFC) FOR THE DESIGN AND ANALYSIS OF HARDENED STRUCTURES TO CONVENTIONAL WEAPONS EFFECTS (UFC 3-340-01).
9. DESIGN OF STRUCTURES TO RESIST THE EFFECTS OF ACCIDENTAL EXPLOSIONS (TMS-1300).
10. INTERNATIONAL CODE COUNCIL, "ACCEPTANCE CRITERIA FOR CONCRETE AND REINFORCED AND UNREINFORCED MASONRY STRENGTHENING USING EXTERNALLY BONDED FIBER-REINFORCED POLYMER (FRP) COMPOSITE SYSTEMS," ICC AC125 (2013).
11. INTERNATIONAL CODE COUNCIL, "ACCEPTANCE CRITERIA FOR INSPECTION AND VERIFICATION OF CONCRETE AND REINFORCED AND UNREINFORCED MASONRY STRENGTHENING USING FIBER-REINFORCED POLYMER (FRP) COMPOSITE SYSTEMS," ICC AC178 (2013).

B. GENERAL

- 1. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS SHALL COMPLIMENT EACH OTHER AND SHALL BE CONSIDERED AN INTEGRAL PART OF THE STRUCTURAL REQUIREMENTS FOR THIS PROJECT. DISCREPANCIES BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT DIRECTOR/COR FOR CLARIFICATION BEFORE COMMENCING WORK. IN THE CASE OF CONFLICTS BETWEEN THE DRAWINGS AND SPECIFICATIONS THE MOST STRINGENT REQUIREMENT SHALL APPLY.
2. THESE NOTES APPLY TO CONTRACTORS, SUBCONTRACTORS, MANUFACTURERS, SUPPLIERS, FABRICATORS, ERECTORS, ETC. ENGAGED IN THE EXECUTION OF WORK INDICATED ON THESE DRAWINGS.
3. IN THE EVENT THAT CERTAIN DETAILS OF THE CONSTRUCTION ARE NOT FULLY SHOWN OR NOTED ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME TYPE AS FOR SIMILAR CONDITIONS WHICH ARE SHOWN AND NOTED, SUBJECT TO THE PROJECT DIRECTOR/COR'S REVIEW.
4. VERIFY ALL EXISTING CONDITIONS RELATED TO THE WORK BEFORE COMMENCING WORK. NOTIFY THE PROJECT DIRECTOR/COR IMMEDIATELY OF ANY DISCREPANCIES.
5. TAKE ALL NECESSARY PRECAUTIONS TO PREVENT ANY DAMAGE TO EXISTING ADJACENT STRUCTURES AND UTILITIES. PROTECT NEW CONSTRUCTION FROM DAMAGE BY CONSTRUCTION EQUIPMENT. REPAIR ALL DAMAGE CAUSED BY CONSTRUCTION TECHNIQUES.
6. ALL DIMENSIONS AND ELEVATIONS INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR AND SHALL BE COORDINATED WITH THOSE INDICATED ON THE ARCHITECTURAL DRAWINGS. REPORT ALL DISCREPANCIES TO THE PROJECT DIRECTOR/COR FOR RESOLUTION BEFORE PROCEEDING.
7. REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR VERIFICATION OF LOCATIONS AND DIMENSIONS OF ALL CHASES, SLOTS, INSERTS, CURBS, OPENINGS, SLEEVES, ANCHOR BOLTS, FLOOR PITCHES, ANGLE FRAMES, AND ALL OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS. CONTRACTOR SHALL SUBMIT COORDINATED SHOP DRAWINGS INDICATING ALL OF THESE ITEMS.
8. REPRODUCTION OF ANY PORTION OF THE STRUCTURAL DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED. SHOP DRAWINGS SUBMITTED FOR STRUCTURAL REVIEW SHALL CONSIST OF PDF'S, A MARKED UP SET OF PDF'S WITH THE SER'S COMMENTS WILL BE RETURNED TO THE ARCHITECT.
9. SUBMIT SHOP DRAWINGS AT LEAST 15 BUSINESS DAYS PRIOR TO THE DATE WHICH REVIEWED SUBMITTALS WILL BE REQUIRED. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL WHICH SHALL CONSTITUTE CERTIFICATION THAT HE HAS VERIFIED ALL FIELD MEASUREMENTS, CONSTRUCTION CRITERIA, MATERIALS AND SIMILAR DATA, AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.
10. THESE DRAWINGS REPRESENT THE COMPLETED PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE THE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGINGS, BRACING, SHEETING AND SHORING, ETC.
11. PROVIDE ANY ALTERATIONS AND/OR ADDITIONAL COMPONENTS NEEDED TO ACCOMMODATE THE INSTALLATION OF EQUIPMENT OF ANY NATURE. ALSO, COORDINATE SUCH WORK WITH THE EQUIPMENT SUPPLIER. INCORPORATE SUCH REFINEMENTS ON THE SHOP DRAWINGS AND OBTAIN THE EQUIPMENT SUPPLIER'S APPROVAL (CLEARLY DISPLAYED ON SHOP DRAWINGS) PRIOR TO SUBMITTING THE SHOP DRAWINGS TO THE PROJECT DIRECTOR/COR FOR REVIEW.
12. NO CHANGES IN SIZE OR DIMENSIONS OF STRUCTURAL ELEMENTS, NOR ANY OPENINGS OR SLEEVES EXCEPT AS DETAILED ON THE SHOP DRAWINGS SHALL BE PERMITTED THROUGH ANY STRUCTURAL ELEMENTS WITHOUT THE REVIEW OF THE PROJECT DIRECTOR/COR. ANY CHANGES TO STRUCTURAL SYSTEMS SHALL BE RE-DESIGNED BY A QUALIFIED, LICENSED PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR AND SUBMITTED TO THE PROJECT DIRECTOR/COR FOR REVIEW. CHANGES SHALL BE AT NO COST TO THE GOVERNMENT.
13. THE CONTRACTOR IS RESPONSIBLE FOR THE "MEANS AND METHODS" OF CONSTRUCTION FOR THE COMPLETION OF THE WORK. HE SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING, SHORING AND PROTECTING ALL WORK (NEW AND EXISTING) DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, SETTLEMENT, OR COLLAPSE. HE SHALL ALSO BE SOLELY RESPONSIBLE FOR IMPLEMENTING JOB SITE SAFETY.
14. ALL DIMENSIONS WITHOUT A DECIMAL ARE IN MILLIMETERS; ALL DIMENSIONS WITH A DECIMAL ARE IN METERS, UNLESS NOTED OTHERWISE.
15. ALL ELEVATIONS ARE REFERENCED FROM ARCHITECTURAL DRAWINGS.
16. SEE ARCHITECTURAL DRAWINGS FOR ALL WATERPROOFING AND DAMPPROOFING DETAILS.
17. DO NOT SCALE DRAWINGS.
18. ALL COSTS OF INVESTIGATION AND/OR REDESIGN, DUE TO CONTRACTOR'S MISLOCATION OF STRUCTURAL ELEMENTS OR OTHER LACK OF CONFORMANCE WITH THE PROJECT DOCUMENTS, SHALL BE AT NO COST TO THE GOVERNMENT.

C. EXISTING STRUCTURAL CONDITIONS

- 1. ALL EXISTING DIMENSIONS AND CONDITIONS WHICH AFFECT THE WORK OF A CONTRACTOR SHALL BE FIELD VERIFIED AND DOCUMENTED BY THE CONTRACTOR AND SUBMITTED FOR APPROVAL PRIOR TO FABRICATION OR COMMENCEMENT OF THE WORK.
2. CONTRACTOR SHALL DESIGN AND CONSTRUCT NECESSARY BARRIERS TO MAINTAIN PUBLIC SAFETY AND AVOID DAMAGE TO ITEMS WHICH ARE TO REMAIN.
3. PRIOR TO CUTTING OR PENETRATING EXISTING CONCRETE MEMBERS, SCANNING SHALL BE PERFORMED TO LOCATE EXISTING REINFORCING. DETAILS SHOWN WILL BE REVIEWED AND MODIFIED AS REQUIRED TO AVOID DAMAGE TO EXISTING REINFORCEMENT.

D. CAST-IN-PLACE CONCRETE

- 1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301-05 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING AND THE ACI MANUAL OF STANDARD PRACTICE.
2. ALL CONCRETE SHALL BE NORMAL WEIGHT.
3. NORMAL WEIGHT CONCRETE SHALL HAVE A UNIT WEIGHT OF 2400 KG PER CUBIC METER UNLESS OTHERWISE NOTED. ALL CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:
3.1 28 DAY COMPRESSIVE STRENGTH f'c = 30 MPa (CYLINDER), f'c = 37-MPa (CUBE)
3.2 WATER/CEMENT RATIO W/C = 0.50 (MAX)
3.3 SLUMP LIMIT 125-MM (+/- 25-MM)
3.4 MAXIMUM AGGREGATE SIZE 20-MM
3.5 AIR CONTENT 3.0% (+/- 1.5%)
3.6 WATER-SOLUBLE, CHLORIDE-ION CONTENT 0.15% (MAX)
4. PORTLAND CEMENT SHALL BE ASTM C150 TYPE I, II, OR III.

D. CAST-IN-PLACE CONCRETE (CONTINUED )

- 5. ALL REINFORCEMENT SHALL BE NEW DEFORMED BILLET STEEL, CONFORMING TO ASTM A 615/A 615M, GRADE 420, OR BS EN 10080, GRADE B500C.
6. WELDED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO ASTM A186. WWR SHALL BE IN SHEET FORM. LAP TWO SQUARES AT ALL SPLICES AND TIE AT 900 O.C.
7. SHOP DRAWINGS SHOWING REINFORCING DETAILS INCLUDING REINFORCEMENT SIZES, SPACING, PLACEMENT AND SUPPORT DETAILS, SHALL BE SUBMITTED TO THE PROJECT DIRECTOR/COR FOR REVIEW AND APPROVAL BEFORE FABRICATION WORK MAY PROCEED. SHOP DRAWINGS SHALL BE PREPARED BY A EXPERIENCED QUALIFIED DETAILER.
8. PROVIDE CONCRETE COVER AS INDICATED ON THE STRUCTURAL DRAWINGS. FOR ALL CONDITIONS NOT SHOWN, REFER TO ACI 318M.
9. ALL REINFORCING BARS SHALL BE SECURED IN THEIR PROPER POSITION WHILE POURING CONCRETE. IF REQUIRED, PROVIDE ADDITIONAL BARS AND STRUTS TO SECURE REINFORCING STEEL. PROVIDE BAR SUPPORTS AND SPACERS WITH NON-CORROSIVE TIPS IN ACCORDANCE WITH ACI 315 DETAILING MANUAL.
10. DEVELOPMENT AND SPLICES OF REINFORCEMENT SHALL BE AS NOTED ON THE STRUCTURAL DRAWINGS.
11. WELDING OF REINFORCING STEEL IS ONLY PERMITTED WHERE NOTED ON THE STRUCTURAL DRAWINGS.
12. THE CONTRACTOR SHALL SUBMIT DETAILED COORDINATED SHOP DRAWINGS AT EACH LEVEL SHOWING THE LOCATIONS OF ALL CONSTRUCTION JOINTS, CURBS, DEPRESSIONS, OPENINGS AND SLEEVES REQUIRED BY ALL TRADES TO THE PROJECT DIRECTOR/COR FOR REVIEW PRIOR TO FABRICATION.
13. PROVIDE TEMPERATURE REINFORCEMENT IN ALL CONCRETE SLABS AND WALLS IN ACCORDANCE WITH ACI 318M, UNLESS OTHERWISE SHOWN ON DRAWINGS.
14. FOR TYPE OF FLOOR FINISHES, DEPRESSIONS, REGLETS, NOTCHES AND OTHER ARCHITECTURAL FEATURES AND TYPE OF SURFACE COATING, SEE SPECIFICATIONS AND ARCHITECTURAL DRAWINGS.
15. THE PROJECT DIRECTOR/COR OR HIS QUALIFIED REPRESENTATIVE SHALL CHECK THE PLACEMENT OF ALL REINFORCING STEEL PRIOR TO POURING OF ANY CONCRETE.
16. FIELD BENDING OF REINFORCEMENT, AND/OR CORE DRILLING OF CONCRETE IS PROHIBITED UNLESS OTHERWISE APPROVED BY STRUCTURAL ENGINEER OF RECORD.
17. ALL POST-INSTALLED ANCHORS SHALL BE HILTI ANCHORS APPROVED BY ICC FOR USE WITH ACI 318M APPENDIX D OR APPROVED EQUAL, INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
18. ALL HOOKS SHOWN ON REINFORCEMENT DETAILS SHALL BE STANDARD 90-DEGREE OR 180-DEGREE HOOKS UNLESS NOTED OTHERWISE.
19. JOINT FILLER FOR ISOLATION JOINTS IN SLAB-ON-GRADE SHALL COMPLY WITH ASTM D 1751, ASPHALT-SATURATED CELLULOSE FIBER, OR ASTM D1752, CORK OR SELF-EXPANDING CORK.
20. EPOXY JOINT FILLER FOR CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE A TWO COMPONENT, 100 PERCENT SOLIDS, LOW-RANGE TENSILE STRENGTH SEMI-RIGID EPOXY WITH A MINIMUM SHORE HARDNESS 50 (ASTM D676) AND ELONGATION OF 6% (ASTM D2240). THE EPOXY JOINT FILLER SHALL BE MIXED AND INSTALLED IN STRICT ACCORDANCE WITH THE DIRECTION OF THE MANUFACTURER, AND SHALL BE INSTALLED AS LONG AS POSSIBLE AFTER SLAB PLACEMENT.

E. FRP STRENGTHENING

- 1. FRP MATERIALS SHALL CONSIST OF ONE OF THE FOLLOWING, OR AN APPROVED EQUAL:
1.1 FYFE TYFO FIBERWRAP COMPOSITE SYSTEMS
1.2 STRUCTURAL TECHNOLOGIES V-WRAP
1.3 SIKAWRAP
2. GFRP REFERS TO GLASS FIBER REINFORCED POLYMER, WHICH SHALL HAVE THE FOLLOWING MINIMUM DESIGN VALUES:
2.1 GFRP
TENSILE STRENGTH = 480-MPa
MODULUS OF ELASTICITY = 20.9-GPa
THICKNESS = 1.3-MM PER PLY
3. TOTAL FRP LAMINATE THICKNESS SHALL BE NO MORE THAN 20MM AT ANY POINT, INCLUDING LAPS.
4. INSTALL FRP IN ACCORDANCE WITH ACI 440.2R AND PER MANUFACTURER'S INSTRUCTIONS. SHOULD MANUFACTURER'S REQUIREMENTS CONFLICT WITH CONTRACT DOCUMENTS, REQUEST CLARIFICATION FROM PROJECT DIRECTOR/COR PRIOR TO PROCEEDING.
5. FRP CONTRACTOR SHALL BE A LICENSED CONTRACTOR IN GREECE AND SHALL HAVE SUCCESSFULLY COMPLETED A MINIMUM OF FIFTEEN (15) PROJECTS OF SIMILAR SIZE. A LIST OF PROJECT NAMES, SCOPE AND COMPLETION DATE SHALL BE SUBMITTED WITH THE PROPOSAL. IN ADDITION, CONTRACTORS SHALL BE EXPERIENCED IN THE INSTALLATION OF THE SPECIFIED PRODUCT, AND SHALL PROVIDE A LETTER FROM THE MANUFACTURER ATTESTING THEY HAVE COMPLETED A PROGRAM OF INSTRUCTION IN THE USE OF THE SPECIFIED STRENGTHENING SYSTEM AND ARE CURRENTLY QUALIFIED TO INSTALL THE MATERIALS.
6. VERIFY THE EXISTING SITE CONDITIONS AND SUBSTRATE SURFACES ARE ACCEPTABLE FOR STARTING WORK. BEGINNING WORK MEANS ACCEPTANCE OF EXISTING CONDITIONS.
7. SEAL OR INJECT CRACKS OR OPENINGS IN THE SURFACE OF THE CONCRETE SUBSTRATE GREATER THAN 0.25-MM WIDE PRIOR TO APPLYING NEXT MATERIAL OR SUBSTANCE.
8. ALL CONCRETE SURFACES THAT ARE TO RECEIVE THE FRP SYSTEM SHALL BE CLEANED AND PREPARED IN ACCORDANCE WITH THE FRP MANUFACTURER'S INSTRUCTIONS. TYPICALLY, GRINDING OF THE CONCRETE SURFACE IS REQUIRED.
9. FOR VOIDS 12-MM DEEP OR LESS, FILL VOIDS IN THE CONCRETE SUBSTRATE AND REMOVE AND REPAIR UNSOUND CONCRETE WITH AN EPOXY MODIFIED MORTAR APPROVED BY THE PROJECT DIRECTOR/COR. FOR VOIDS GREATER THAN 12-MM DEEP, FILL VOIDS WITH PATCHING MORTAR IN ACCORDANCE WITH STRUCTURAL GENERAL NOTES SECTION "STRUCTURAL RESTORATION".
10. AFTER THE FRP INSTALLATION HAS PROPERLY CURED, HAMMER SOUNDING TESTS SHALL BE CONDUCTED BY TO DETECT DELAMINATIONS. ACCEPTANCE CRITERIA FOR DELAMINATIONS SHALL BE IN ACCORDANCE WITH ACI 440.2R, ARTICLE 6.2.3.
11. FOR ADDITIONAL INFORMATION, SEE SPECIFICATION SECTION 03 90 00 - FIBER-REINFORCED POLYMER.

F. STRUCTURAL MATERIAL TESTING (ADDIATL - 01)

- 1. ALL DRILLED CORES OF EXISTING CONCRETE SHALL BE OBTAINED BY CORE DRILLING AND PREPARED IN ACCORDANCE WITH ASTM C 42/C 42M. STANDARD TEST METHOD FOR OBTAINING AND TESTING DRILLED CORES AND SAWED BEAMS OF CONCRETE. CONCRETE CORE SAMPLES SHALL HAVE A NOMINAL DIAMETER OF 100-MM (MIN), WITH A MINIMUM ACTUAL DIAMETER OF 94-MM. THE PREFERRED LENGTH OF THE CORE IS 1.9 - 2.1 TIMES THE ACTUAL DIAMETER. IF THE RATIO OF THE CORE LENGTH TO DIAMETER (L/D) EXCEEDS 2.1, REDUCE THE LENGTH OF THE CORE SO THE RATIO OF THE CAPPED OR GROUND SPECIMEN IS BETWEEN 1.9 & 2.1. CORE SPECIMENS WITH L/D RATIOS EQUAL TO OR LESS THAN 1.75 REQUIRE CORRECTIONS TO THE MEASURED COMPRESSIVE STRENGTH. ASTM C 42/C 42M, SECTION 7.9.1. A STRENGTH CORRECTION FACTOR IS NOT REQUIRED FOR L/D GREATER THAN 1.75. A CORE HAVING A MAXIMUM LENGTH OF LESS THAN 95% OF ITS DIAMETER BEFORE CAPPING OR A LENGTH LESS THAN ITS DIAMETER AFTER CAPPING OR GRINDING SHALL NOT BE TESTED.
2. COMPRESSION TESTS OF DRILLED CORES OF EXISTING CONCRETE SHALL BE COMPLETED IN ACCORDANCE WITH ASTM C 39/C 39M.
3. DRILLED CORES OF EXISTING CONCRETE TO BE USED FOR COMPRESSION TESTS SHALL NOT INCLUDE ANY EMBEDDED REINFORCING. THE LOCATION OF ALL EXISTING REINFORCING IN THE VICINITY OF THE CORE LOCATION SHALL BE LOCATED BY SCANNING PRIOR TO DRILLING THE CORE, AND THE LOCATION OF THE CORE SHALL BE ADJUSTED AS REQUIRED TO AVOID CUTTING ANY EXISTING REINFORCING STEEL.
4. AFTER REMOVING DRILLED CONCRETE CORES, THE VOIDS SHALL BE REPAIRED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN THE "STRUCTURAL RESTORATION" PORTION OF THE STRUCTURAL GENERAL NOTES.
5. SAMPLES OF EXISTING REINFORCING STEEL FOR TENSION TESTING SHALL BE LONG ENOUGH TO PROVIDE THE FOLLOWING: A MINIMUM GAGE LENGTH OF 200-MM, A DISTANCE OF AT LEAST TWO BAR DIAMETERS BETWEEN EACH GAGE MARK AND THE GRIPS, PLUS SUFFICIENT ADDITIONAL LENGTH TO FILL THE GRIPS COMPLETELY LEAVING SOME EXCESS LENGTH PROTRUDING BEYOND EACH GRIP. TEST SPECIMENS SHALL BE THE FULL SECTION OF THE BAR AS ROLLED. SPECIMENS DAMAGED BY CONCRETE REMOVAL PROCEDURES OR OTHERWISE SHALL NOT BE USED FOR TENSILE TESTING.
6. TENSION TESTS OF EXISTING REINFORCING STEEL SAMPLES SHALL BE PERFORMED IN ACCORDANCE WITH ASTM A 370. BOTH THE YIELD AND ULTIMATE TENSILE STRENGTH SHALL BE MEASURED AND RECORDED.
7. REMOVED REINFORCING STEEL SPECIMENS SHALL BE REPLACED WITH NEW REINFORCING STEEL BARS TO MATCH THE DIAMETER OF THE REMOVED BAR, CONFORMING TO ASTM A 615/A 615M, OR BS EN 10080 GRADE C, AND SPLICED WITH THE EXISTING BAR TO REMAIN WITH MECHANICAL COUPLERS OR WELDED SPLICES. THE SPLICES SHALL DEVELOP 125% OF THE YIELD STRENGTH OF THE REPLACEMENT BAR. IF THE REQUIRED CONCRETE COVER CANNOT BE PROVIDED TO MECHANICAL COUPLERS, THE SPLICES SHALL BE MADE WITH WELDED SPLICES.
G. STRUCTURAL RESTORATION
1. ALL DAMAGED AND REMOVED STRUCTURAL CONCRETE SURFACES EXPOSED AS PART OF THE MOCK UP WORK SHALL BE RESTORED TO "LIKE NEW" CONDITION. RESTORE CONCRETE AS INDICATED BELOW:
A. ROUGHEN UNEXPOSED SURFACES TO 6-MM AMPLITUDE.
B. THOROUGHLY CLEAN REMOVAL AREAS OF LOOSE CONCRETE, DUST, AND DEBRIS.
C. MIX MORTAR SCRUB COAT CONSISTING OF 1 PART PORTLAND CEMENT AND 1 PART FINE AGGREGATE COMPLYING WITH ASTM C144 EXCEPT WITH 100% PASSING A NO. 16 SIEVE.
D. SATURATE SURFACE WITH WATER.
E. REMOVE STANDING WATER AND APPLY SCRUB COAT WITH A BRUSH, MAINTAINING SCRUB COAT WET. IF SCRUB COAT DRIES OUT, RECOAT WITH AN ADDITIONAL SCRUB COAT BEFORE APPLYING PATCHING MORTAR.
F. PLACE PATCHING MORTAR BY TROWELING TOWARD EDGES OF PATCH TO FORCE INTIMATE CONTACT WITH EDGE SURFACES. FORCE PATCHING MORTAR TO FILL SPACE BEHIND REINFORCING BY COMPACTING WITH TROWEL FROM SIDES OF BARS.
G. AFTER PATCHING MORTAR IS PLACED, SCREED SURFACE.
H. FINISH SURFACE OF PATCHING MORTAR TO MATCH EXISTING ADJACENT CONCRETE.
I. WET-CURE PATCHING MORTAR USING WATER-SATURATED ABSORBITIVE COVER.
2. PATCHING MORTAR SHALL BE A TWO-COMPONENT, POLYMER-MODIFIED, CEMENTITIOUS REPAIR MORTAR WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 35-MPa WHEN TESTED IN ACCORDANCE WITH ASTM C 109/C 109M.
3. ALL WELDED REINFORCING STEEL SPLICES SHALL BE IN ACCORDANCE WITH ANSIAWS D14 "STRUCTURAL WELDING CODE - REINFORCING STEEL."
4. WHERE NOTED, DEPTH OF CARBONATION IN CONCRETE SHALL BE MEASURED BY APPLYING PHEOLPHTHALEIN TO THE SURFACE OF CONCRETE AT THE EDGE OF AN AREA WHERE CONCRETE HAS BEEN REMOVED, ACCORDING TO RILEY RECOMMENDATIONS CPC-18.

H. LIST OF SYMBOLS AND ABBREVIATIONS

Table with 2 columns: Symbol and Description. Includes entries for ACI, ADDL, AISC, ALT, ARCH, ASTM, AWS, BFE, BLDG, BM, BOIT, BPL, CA, CANT, CB, CF, CLR, CLG, CL, COL, COMP, CONC, CONN, CONT, CPL, CMI, CS, DP, DET, DIA, DIM, DL, DWG, DIAG, EA, EL, EQ, ELEV, EXIST, EXP, EXT, F TO F, FDN, FIN, FL, FP, FTG, FLG, GALV, GEN, HP, INT, JT, LL, LG, LIN, LP, MO, MANUF, MECH, MIN, MSC, MS, NIC, NTS, OD, O/C, OPNG, OPP, PA, PB, PL, PT, R, REIN, REV, SCHED, SER, SIM, SL, SLV, STD, STIFF, SUPP, SYMM, T, T/BM, T/FTG, T/M2, TEMP, T/STEEL, TYP, THK, UON, VERT, VIF, W, WO, WP, WWR.



U.S. EMBASSY CHANCERY COLUMN REHABILITATION MOCK-UP for ATHENS GREECE

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Table with 3 columns: Rev Number, Description, Date. Includes a Revisions section.

AnnBeha Architects 33 Kingston Street Boston, MA 02111 U.S.A. Tel: +1 617 338 3000 Fax: +1 617 482 9097

Weldinger Associates, Inc. 97 Wavered Street, Suite 200 Boston, MA 02109-3909 Tel: 617 552 4200

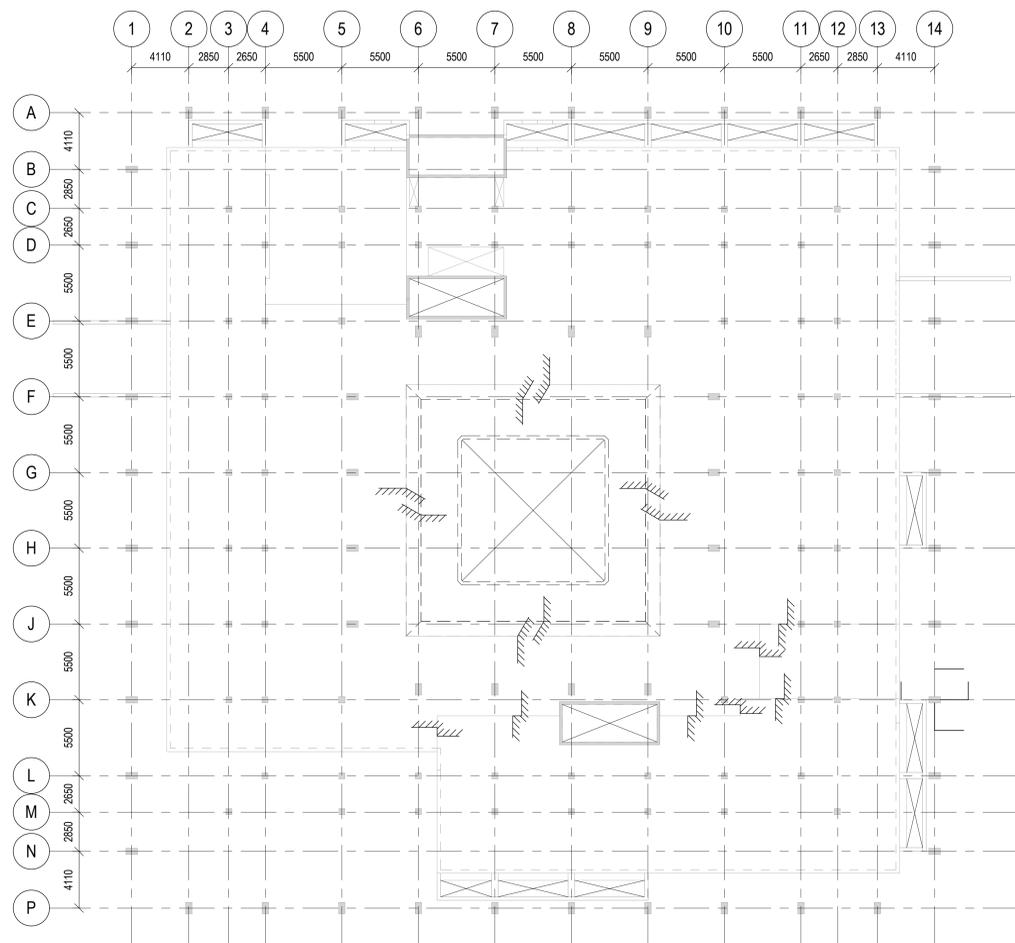
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STRUCTURAL GENERAL NOTES

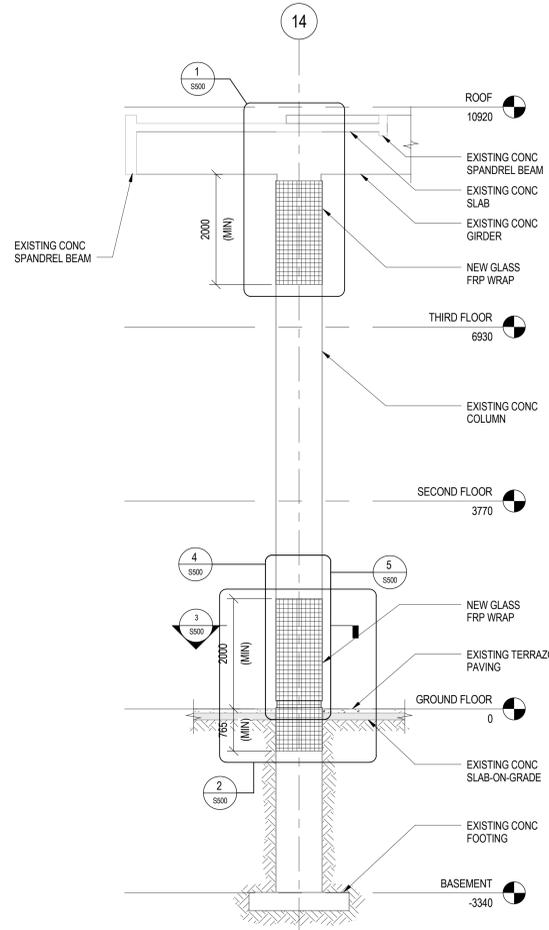
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Drawn By: MC, Checked By: BV, Project Number: 01315.01, Classification: UNCLASSIFIED

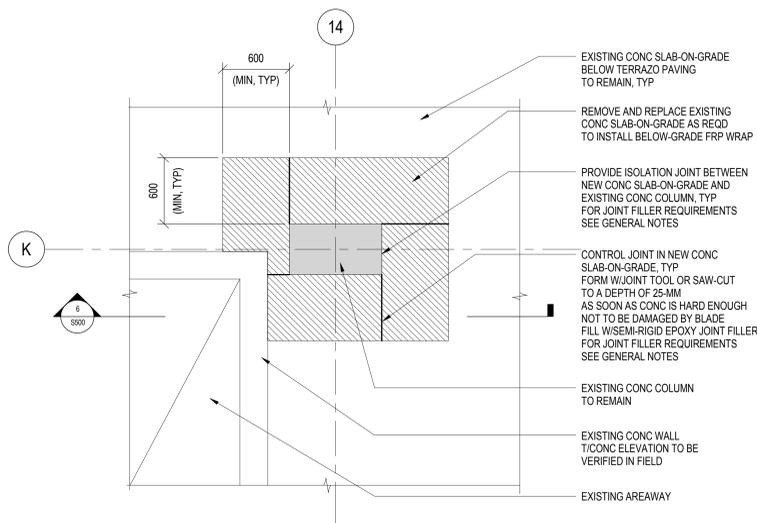
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1 GROUND FLOOR FRAMING PLAN/KEY PLAN  
1:200



2 COLUMN 14/K NORTH ELEVATION  
1:50



3 PART FRAMING PLAN AT COLUMN K/14  
1:25



United States Department of State  
OVERSEAS BUILDINGS OPERATIONS  
Washington, D.C.

U.S. EMBASSY  
CHANCERY COLUMN  
REHABILITATION MOCK-UP  
for  
ATHENS  
GREECE

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U.S. Department of State  
ATTN: Peter Cullerston  
Washington, DC 20505

**AnnBeha Architects**  
33 Kingston Street  
Boston, MA 02111  
U.S.A.  
Tel: +1 617 338 3000  
Fax: +1 617 482 9997



Weldinger Associates, Inc.  
97 Worcester Street, Suite 200  
Boston, MA 02109-2919  
Tel: 617 552 4200

Release For Construction:  OBO/PCS/PC  
 OBO/PCS/PC

Drawing Title  
**GROUND FLOOR KEY PLAN &  
COLUMN ELEVATION**

OBO Project Number: S-AQIMMA-14-C-0023  
Drawing Scale: As indicated  
Phase:  CONCEPT  30%  60%  90%  FINAL  
CADD File Name: ATH EOB S100.dwg  
CADD Plot Scale: 1:1

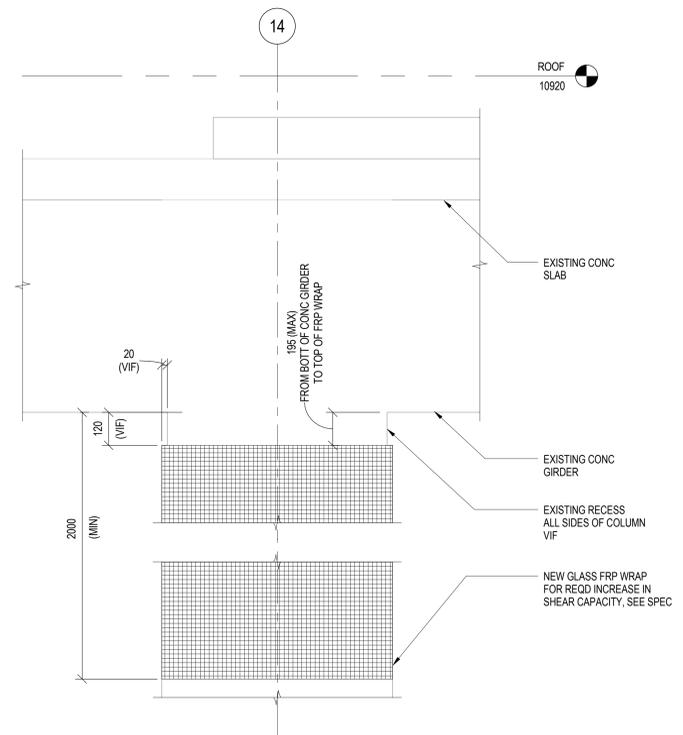
Date: 06/19/2015  
Sheet Number: **EOB S100**  
Drawn By: MC  
Checked By: BV  
Project Number: 01315.01  
Classification: UNCLASSIFIED



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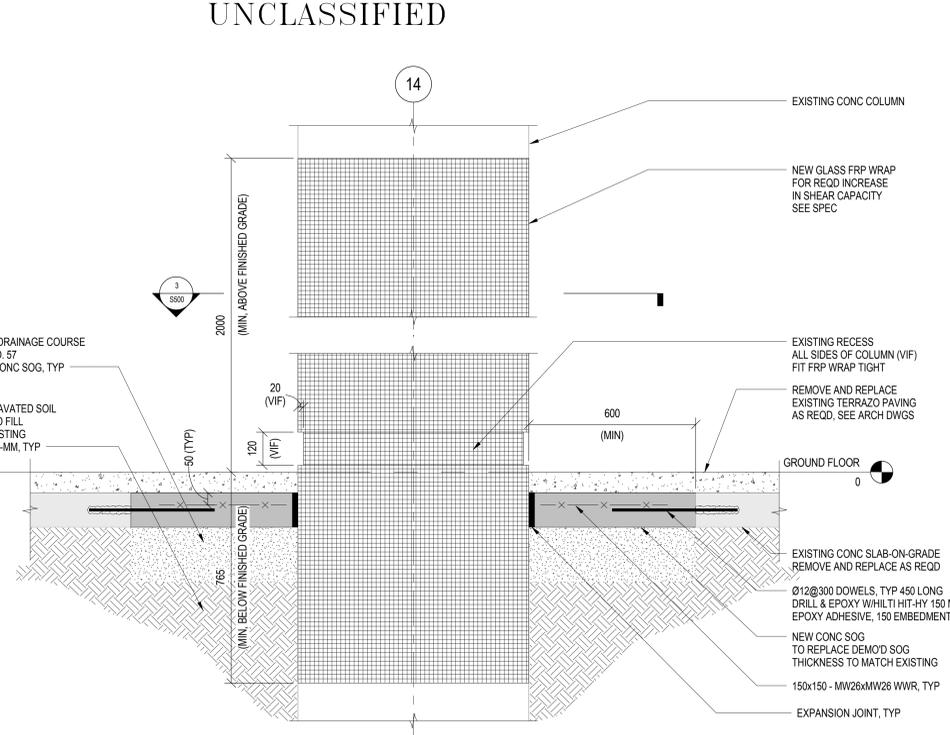
### U.S. EMBASSY CHANCERY COLUMN REHABILITATION MOCK-UP for ATHENS GREECE

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U.S. Department of State  
ATTN: Peter Cultrone  
Washington, DC 20505



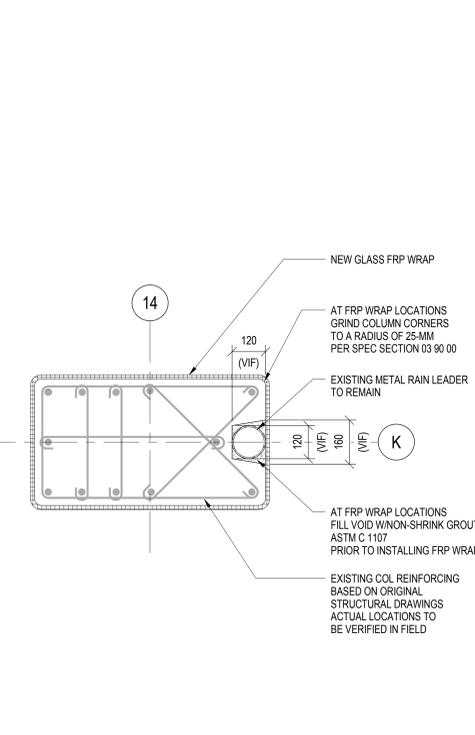
1 COLUMN K/14 - ELEVATION DETAIL AT TOP  
1: 10

NOTE: FOR ADDITIONAL REQUIREMENTS REGARDING INSTALLATION OF FRP WRAP, INCLUDING SURFACE PREPARATION AND CONSTRUCTION SEQUENCE, SEE STRUCTURAL GENERAL NOTES SECTION "FRP STRENGTHENING" AND SPECIFICATION SECTION 03 90 00.



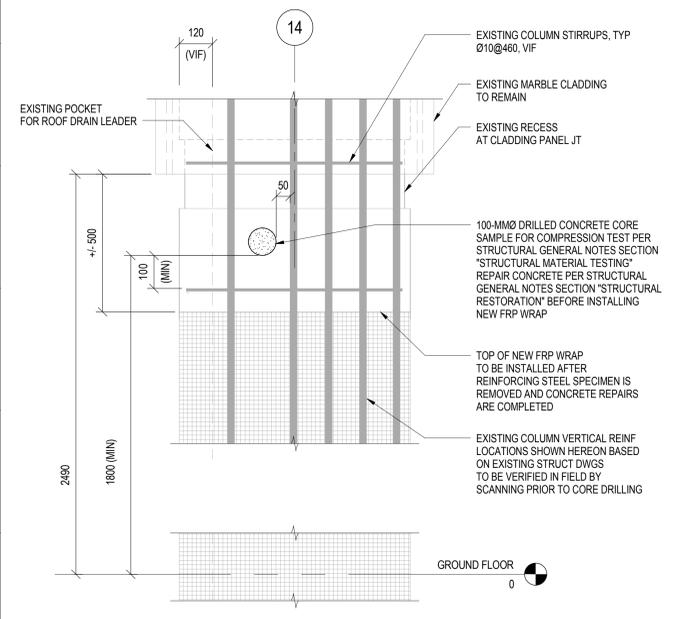
2 COLUMN K/14 - ELEVATION DETAIL AT BOTTOM  
1: 10

NOTE: FOR ADDITIONAL REQUIREMENTS REGARDING INSTALLATION OF FRP WRAP, INCLUDING SURFACE PREPARATION AND CONSTRUCTION SEQUENCE, SEE STRUCTURAL GENERAL NOTES SECTION "FRP STRENGTHENING" AND SPECIFICATION SECTION 03 90 00.



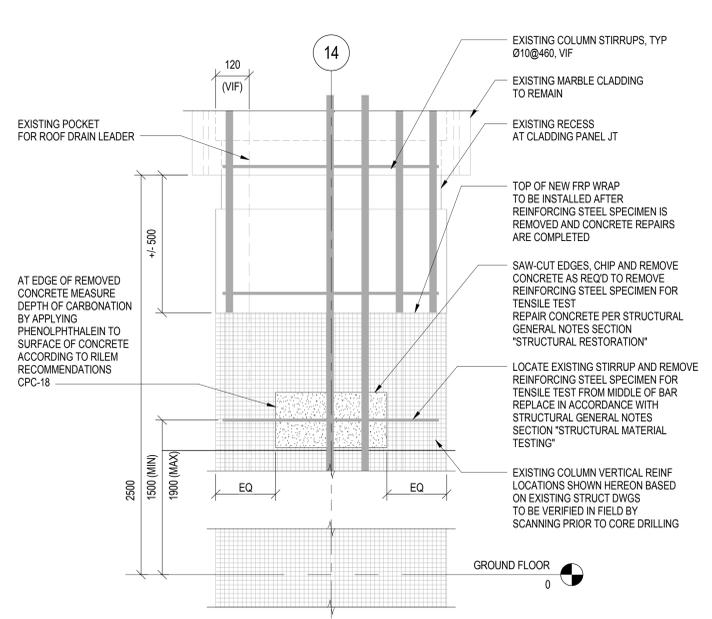
3 PLAN DETAIL AT COLUMN K14  
1: 10

NOTE: FOR ADDITIONAL REQUIREMENTS REGARDING INSTALLATION OF FRP WRAP, INCLUDING SURFACE PREPARATION AND CONSTRUCTION SEQUENCE, SEE STRUCTURAL GENERAL NOTES SECTION "FRP STRENGTHENING" AND SPECIFICATION SECTION 03 90 00.



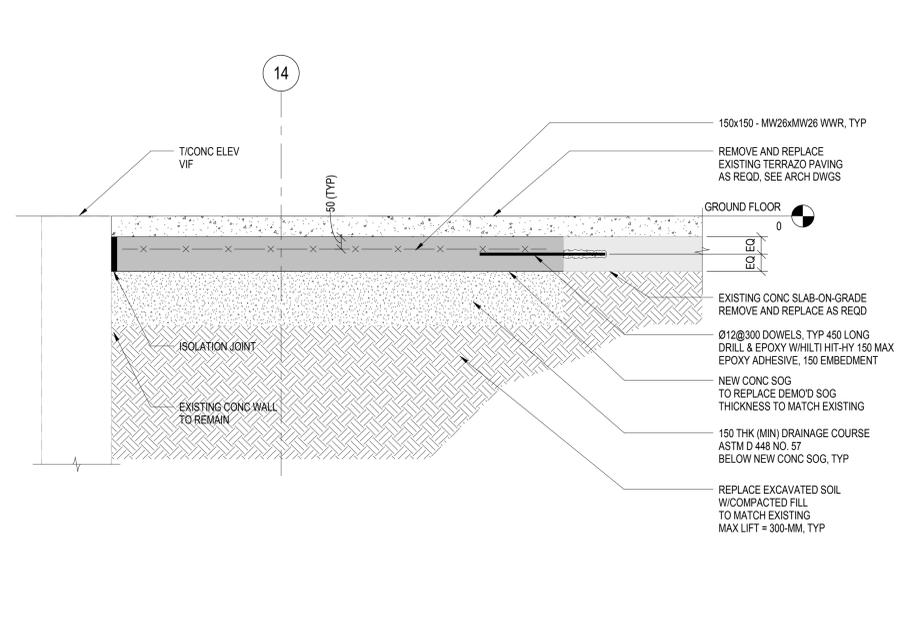
4 DRILLED CONCRETE CORE SAMPLE - ADD/ALT - 01  
1: 10

NOTE: FOR ADDITIONAL REQUIREMENTS REGARDING STRUCTURAL MATERIALS TESTING AND CONCRETE RESTORATION, SEE STRUCTURAL GENERAL NOTES SECTIONS "STRUCTURAL MATERIALS TESTING" AND "CONCRETE RESTORATION".



5 REINFORCING STEEL SPECIMEN REMOVAL - ADD/ALT - 01  
1: 10

NOTE: FOR ADDITIONAL REQUIREMENTS REGARDING STRUCTURAL MATERIALS TESTING AND CONCRETE RESTORATION, SEE STRUCTURAL GENERAL NOTES SECTIONS "STRUCTURAL MATERIALS TESTING" AND "CONCRETE RESTORATION".



6 SECTION THROUGH SOG TO BE REMOVED & REPLACED  
1: 10

Rev Number	Description	Date

**AnnBeha Architects**  
33 Kingston Street  
Boston, MA 02111  
U.S.A.  
Tel: +1 617 338 3000  
Fax: +1 617 482 9997

**WELLS LINGER**  
Weldinger Associates, Inc.  
97 Worcester Street, Suite 200  
Boston, MA 02109-3909  
Tel: 617 552 4200

Release For Construction:  OBO/PCS/PCO  OBO/PCS/COE

#### SECTIONS AND DETAILS

OBO Project Number: S-ACIMA-14-C-0023  
Drawing Scale: 1: 10  
Phase:  CONCEPT  30%  60%  90%  FINAL  
CADD File Name: ATH EOB S500.dwg  
CADD Plot Scale: 1:1

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