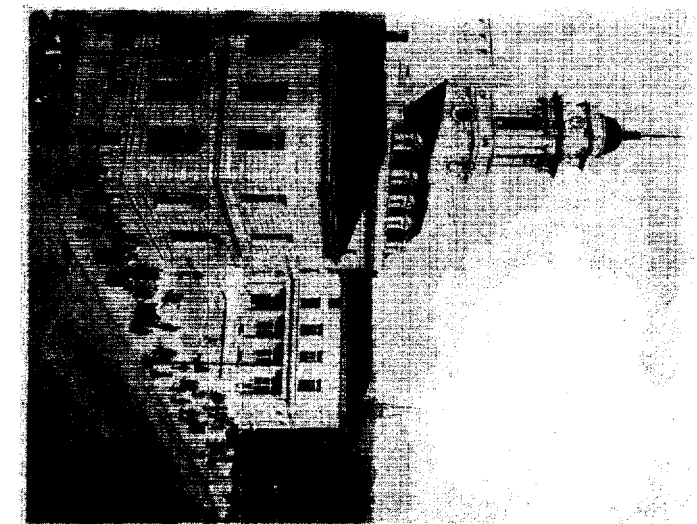


Portland City Hall Clock Tower & Parapet Restoration

389 Congress Street
Portland, Maine

30 January 2006
Bid # 4306



tl-architects, llc

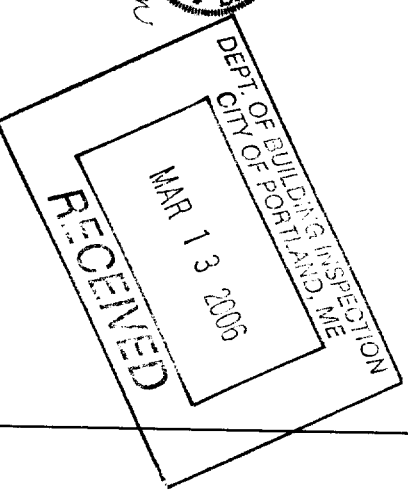
92 EXCHANGE STREET
PORTLAND, MAINE 04101
TEL. 207.761.9662
FAX. 207.761.9696

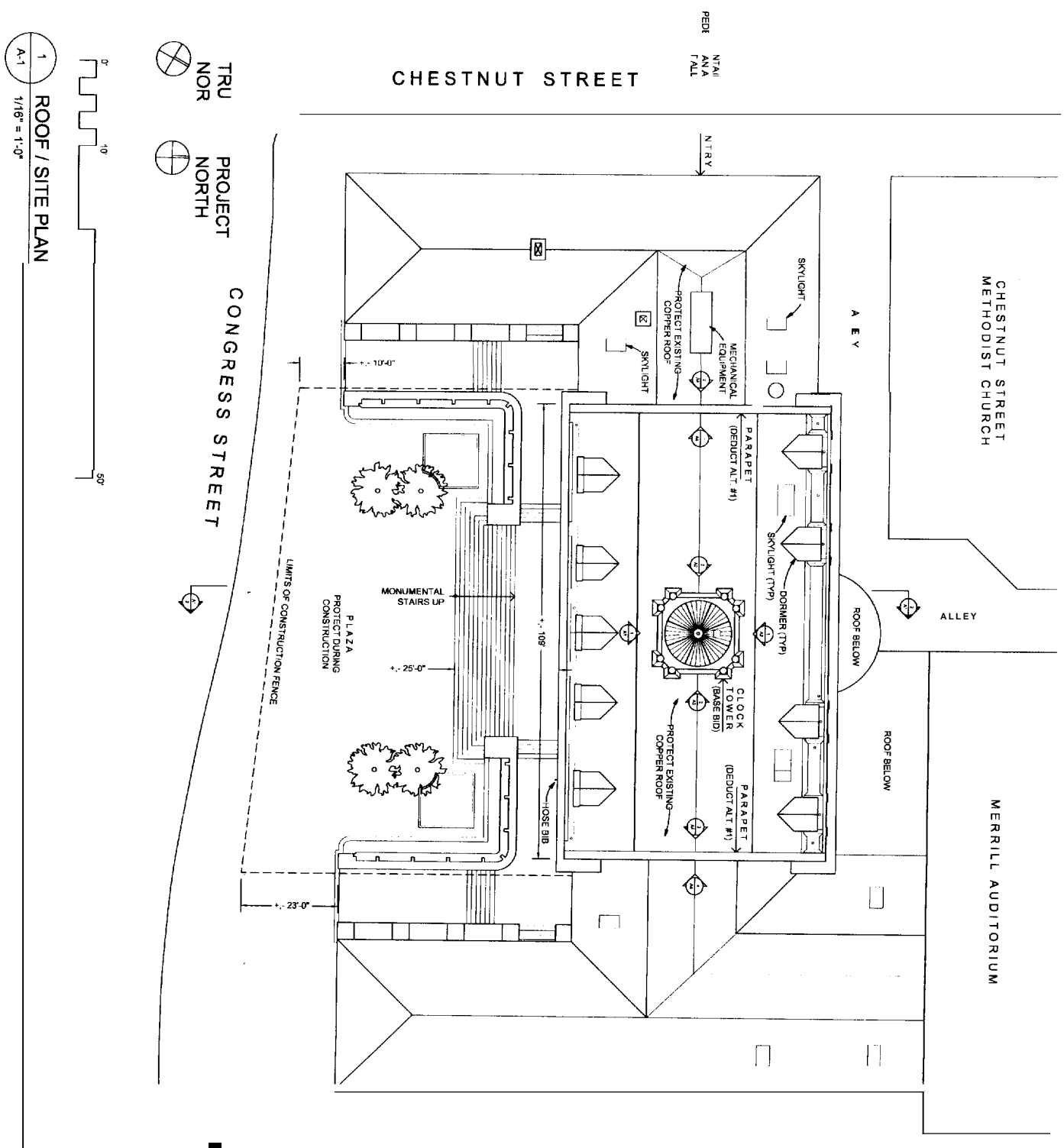
RESURGENCE

ENGINEERING & PRESERVATION
132 BRENTWOOD STREET
PORTLAND, MAINE
TEL. 207.773.4880

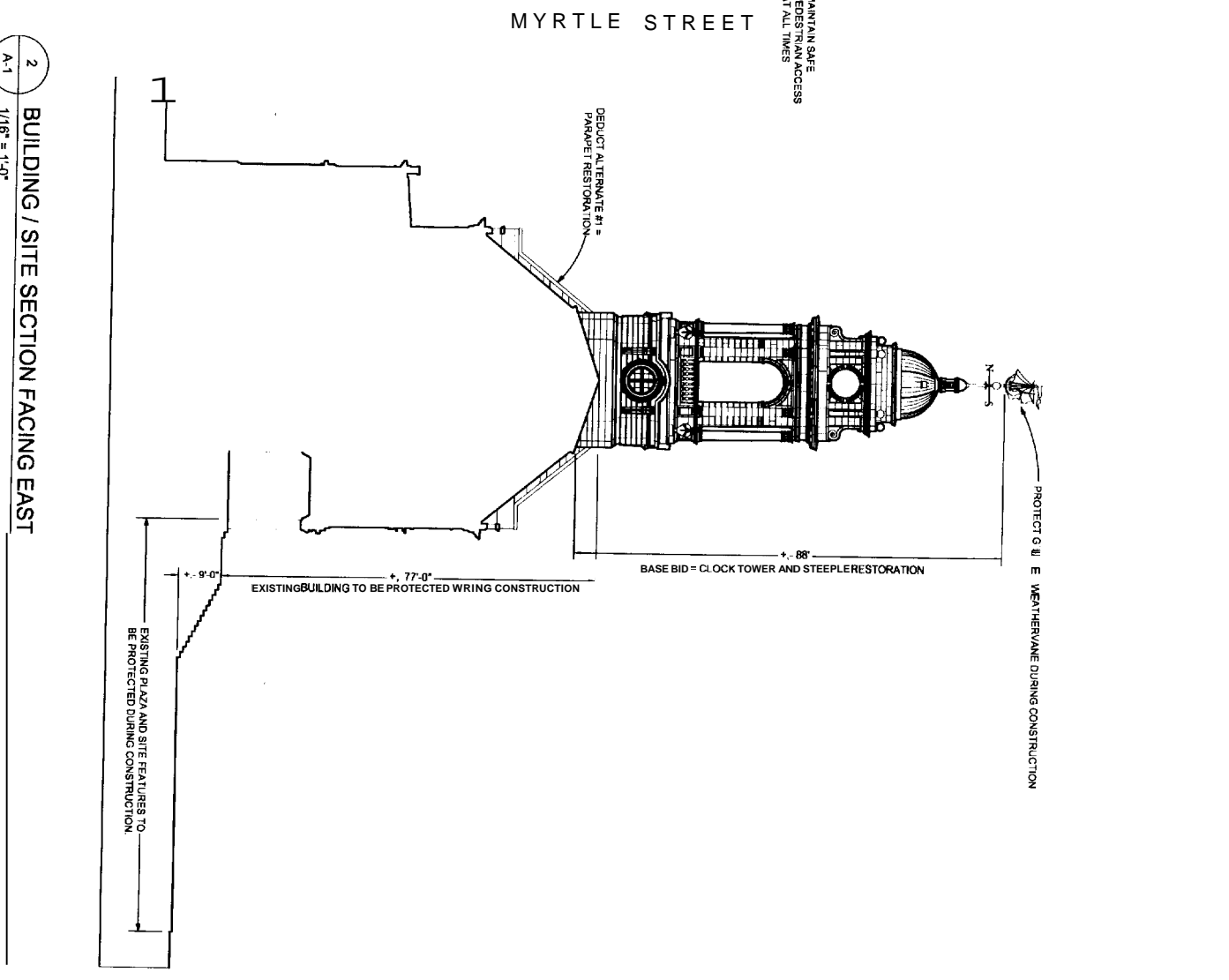
Drawing List

- A-1 Site Key Plan and Site Section
- A-2 North & West Tower Elevations
- A-3 South, East and Belfry Elevations
- A-4 Parapet Deduct Alternate
- A-5 Building Section Through Tower and Architectural Plans
- A-6 Plans at Various Granite Courses
- A-7 Granite Details
- A-8 Window Types and Misc. Details
- S-1 Structural General Notes and Construction Sequencing
- S-2 Existing Steel Framing and Key Plans
- S-3 Clock Tower Plans and Details - Belfry Columns
- S-4 Clock Tower Plans and Details - Belfry and Observation Room
- S-5 Clock Tower Plans and Details - Clock Room
- S-6 Clock Tower Plans and Details - Dome Base
- S-7 Parapet Deduct Alternate - Elevations, Sections and Details



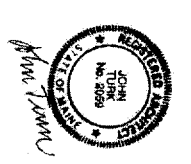


- GENERAL NOTES:**
- SITE PLAN AND SITE SECTION ARE DIAGRAMMATIC IN NATURE AND ARE PROVIDED SOLELY FOR INFORMATIONAL PURPOSES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD MEASURE AND VERIFY EXISTING SITE CONDITIONS AND ACCESS OPPORTUNITIES AND TO SUBMITTING A B.D. UPON DISCOVERY, CONTRACTOR SHALL IMMEDIATELY NOTIFY ARCHITECT OF ANY DISCREPANCY OR CONFLICT.
 - CONTRACTOR SHALL MAINTAIN SAFE, UNIMPEDED PEDESTRIAN ACCESS AT BOTH THE MYRTLE AND CHESTNUT STREET ENTRIES AT ALL TIMES DURING THE COURSE OF CONSTRUCTION. IF REQUIRED, THE MAIN ENTRY OFF OF CONGRESS STREET MAY BE BLOCKED OFF BY APPROPRIATE DIRECTIONAL SIGNAGE IS INSTALLED INDICATING ACCESS AT BOTH SIDE ENTRIES.
 - THE CONTRACTOR MAY USE THE CONGRESS STREET PLAZA AT THE FRONT OF THE BUILDING AS A STAGING AREA DURING THE COURSE OF CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADEQUATELY PROTECT CONSTRUCTION MATERIALS AND EQUIPMENT. PROTECTIVE CONSTRUCTION FENCING WILL BE ALLOWED AT THE LIMIT LINE SHOWN TO CONTAIN CONSTRUCTION ACTIVITIES.
 - EXISTING STRUCTURE AND FINISHES OUTSIDE OF THE LIMITS OF THE WORK, INCLUDING GRANITE COPPER ROOFING, PAINTING AND PLAZA SURFACES SHALL BE PROTECTED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION. ANY DAMAGED MATERIAL, ON THIS OR ADJACENT DOCUMENTATION WILL BE TAKEN OF THE VICINITY PRIOR TO AWARD OF CONTRACT TO RECORD EXISTING CONDITIONS.
 - CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATORY REQUIREMENTS.



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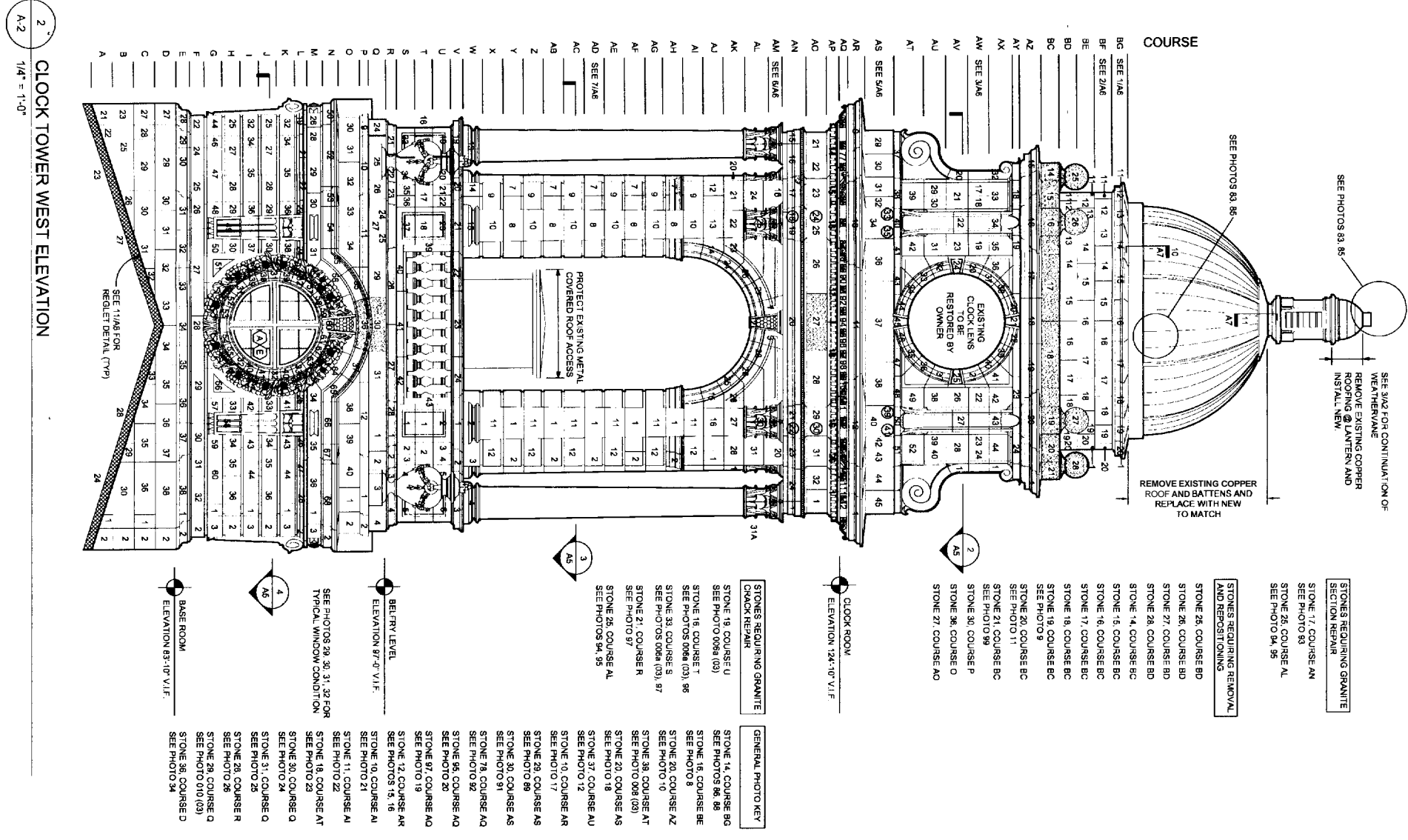
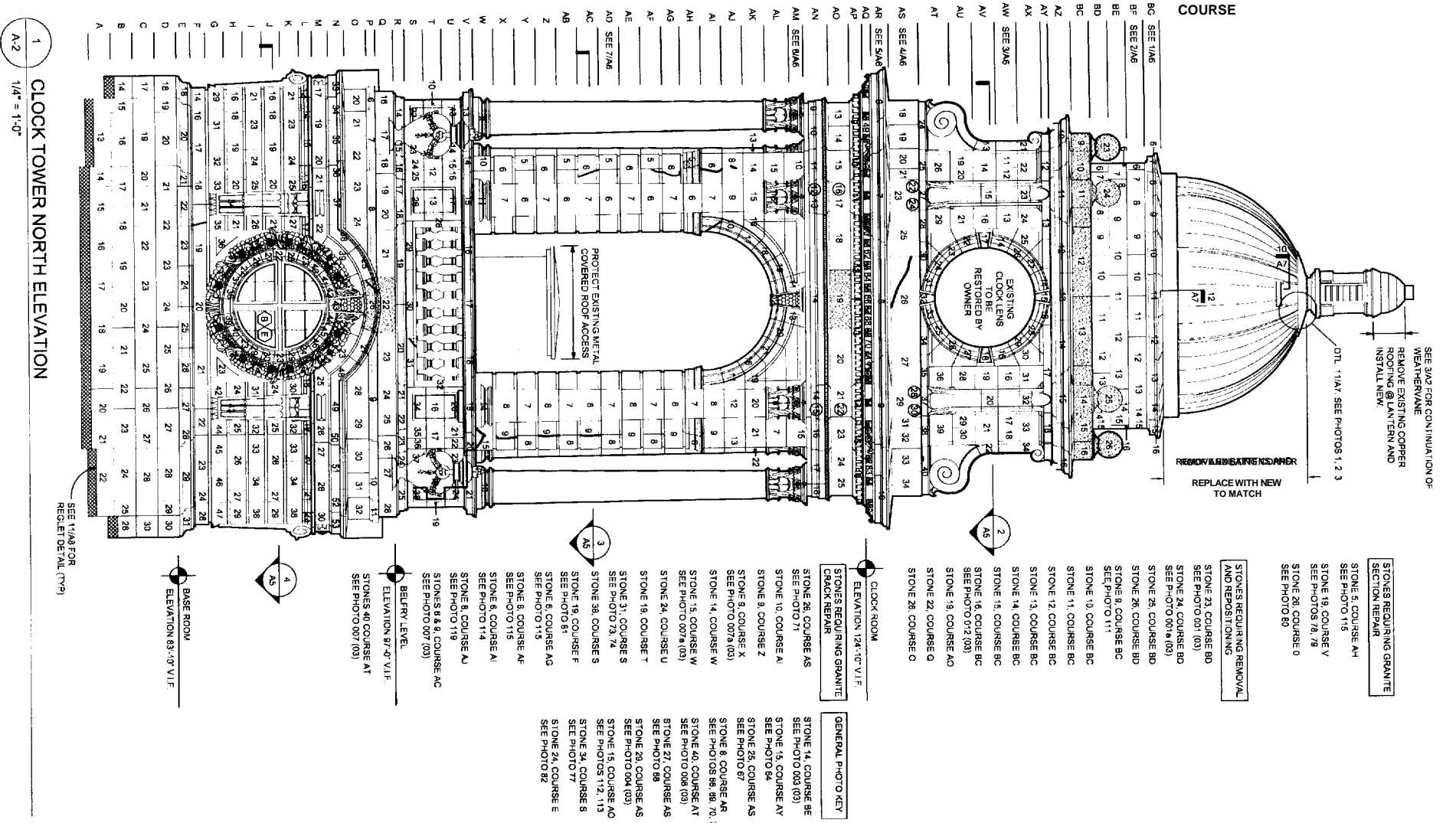
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Clock Tower Restoration
Portland City Hall
389 Congress Street
Portland, Maine

Date: 14 December 2005
Scale: As Shown
Revisions:

Title:
Progress
Not For Construction
Site Diagram
Site Section
Sheet:
A-1



- ### GENERAL NOTES
1. ALL EXISTING CALK SHALL BE REMOVED FROM MASONRY JOINTS AND SURFACES. SEE SPECIFICATION SECTION 0448 - CALK. REMOVE AND GENERAL CLEANING OF GRANITE.
 2. ALL EXPOSED MASONRY SURFACES SHALL RECEIVE A LIGHT RESTORATION CLEANING TO BRING THEM TO THE SPECIFIED FINISH. SEE SPECIFICATION SECTION 0448 - CALK REMOVAL AND GENERAL CLEANING OF GRANITE.
 3. ALL MASONRY JOINTS SHALL BE HAND RAKED OF EXISTING MORTAR AND REPOINTED WITH TYPE M PORTLAND CEMENT MORTAR (WHICHEVER IS GREATER) BUT IN ALL CASES TAKE BACK TO SOUND MORTAR. SEE SPECIFICATION SECTION 0448 - POINTING GRANITE.
 4. ALL VERTICAL MASONRY JOINTS SHALL BE REPOINTED WITH MORTAR. SEE SPECIFICATION SECTION 0448 - POINTING GRANITE.
 5. ALL SHALLOW FACING (AND CURVING) MASONRY JOINTS SHALL RECEIVE NEW LEAD CHIPPING SYSTEM. SEE SPECIFICATION SECTION 0448 - POINTING GRANITE.
 6. ALL EXISTING CLOCK LENSES TO BE REMOVED PRIOR TO REPOINTING. ALL EXISTING MASONRY JOINTS SHALL BE REPOINTED WITH MORTAR. GC SHALL BE RESPONSIBLE FOR INSTALLING NEW GC CARVED WOOD FRAME TO RECEIVE RESTORED CLOCK LENS. GC ALSO RESPONSIBLE FOR PROVIDING TEMPORARY WEATHERPROOFING FOR MASONRY OPENING DURING CONSTRUCTION. CLOCK RESTORERS TO INSTALL RESTORED CLOCK LENS AFTER CONSTRUCTION.
 7. SEE DRAWING CPS-11 FOR SUGGESTED CONSTRUCTION SEQUENCING. STONE EXTRACTION TO TAKE PLACE ONE QUADRANT AT A TIME TO HELP ASSURE STRUCTURAL INTEGRITY OF TOWER. GC SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY WEATHERPROOFING FOR MASONRY OPENING AND TO EXAMINE HIDDEN CONDITIONS. GC TO PROVIDE MIN. 36 HOUR NOTICE BEFORE EXTRACTION.
 8. SEE DRAWING A8 DETAILS 11, 12, 13 & 14 FOR TYPICAL SECTION DETAILS AT REGLETS. CLOCK REPAIR SECTION TYPICAL UNDER 2' DEPTH, AND SECTION HEREIN OVER 2' DEPTH.

1 CLOCK TOWER NORTH ELEVATION
1/4" = 1'-0"

2 CLOCK TOWER WEST ELEVATION
1/4" = 1'-0"

3 WEATHERVANE ELEVATION
1/4" = 1'-0"

SEE 3142 FOR CONTINUATION OF WEATHERVANE REMOVE EXISTING COPPER ROOFING @ LANTERN AND INSTALL NEW

STONES REQUIRING GRANITE SECTION REPAIR
STONE 8, COURSE AL
SEE PHOTOS 102, 103

STONES REQUIRING REMOVAL AND REPOSITIONING
STONE 27, COURSE BD
STONE 28, COURSE BD
STONE 21, COURSE BD
STONE 22, COURSE BD
STONE 19, COURSE BC
STONE 20, COURSE BC
STONE 1, COURSE BC
SEE PHOTO 101

GENERAL PHOTO KEY
STONE 2, COURSE BC
SEE PHOTO 102 (03), 14, 103
STONE 3, COURSE BC
SEE PHOTO 108 (03)
STONE 4, COURSE BC
SEE PHOTO 108 (03)
STONE 5, COURSE BC
SEE PHOTO 108
STONE 6, COURSE BC
SEE PHOTO 105
STONE 7, COURSE BC
SEE PHOTO 105, 131
STONE 8, COURSE BC
SEE PHOTO 58, 131
STONE 9, COURSE BC
SEE PHOTO 57
STONE 10, COURSE BC
SEE PHOTO 143A (03)
STONE 11, COURSE BC
SEE PHOTO 151A (03)
STONE 14, COURSE O
SEE PHOTO 148A (03)

STONES REQUIRING GRANITE SECTION REPAIR
STONE 18, COURSE O
SEE PHOTO 58
STONE 23, COURSE AO
SEE PHOTO 58

STONES REQUIRING REMOVAL AND REPOSITIONING
STONE 22, COURSE BD
STONE 23, COURSE BD
STONE 24, COURSE BD
STONE 25, COURSE BD
STONE 4, COURSE BC
STONE 5, COURSE BC
STONE 6, COURSE BC
SEE PHOTO 105
STONE 7, COURSE BC
SEE PHOTO 58, 131
STONE 8, COURSE BC
SEE PHOTO 57
STONE 9, COURSE BC
SEE PHOTO 143A (03)
STONE 10, COURSE BC
SEE PHOTO 151A (03)
STONE 11, COURSE BC
SEE PHOTO 148A (03)
STONE 14, COURSE O
SEE PHOTO 148A (03)

GENERAL PHOTO KEY
STONE 7, COURSE BD
SEE PHOTO 150 (03)
STONE 8, COURSE AZ
SEE PHOTO 108, 110
STONE 7, COURSE AZ
SEE PHOTO 55
STONE 8, COURSE AR
SEE PHOTO 146 (03)
STONE 9, COURSE AR
SEE PHOTO 139 (03)
STONE 12, COURSE AO
SEE PHOTO 58, 80
STONE 8, COURSE AM
SEE PHOTO 138A (03)
STONE 11, COURSE AK
SEE PHOTO 139A (03)
STONE 12, COURSE AN
SEE PHOTO 148B (03)
STONE 11, COURSE AW
SEE PHOTO 148A (03)
STONE 14, COURSE D
SEE PHOTO 53

STONES REQUIRING GRANITE SECTION REPAIR
STONE 11, COURSE AO
SEE PHOTO 57, 102

GENERAL PHOTO KEY
STONE 11, COURSE AO
SEE PHOTO 57, 102

STONES REQUIRING GRANITE SECTION REPAIR
STONE 11, COURSE AO
SEE PHOTO 57, 102

STONES REQUIRING GRANITE SECTION REPAIR
STONE 11, COURSE AO
SEE PHOTO 57, 102

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CLOCK ROOM
ELEVATION 124'-10" V.I.F.

BASE ROOM
ELEVATION 83'-10" V.I.F.

BELFRY LEVEL
ELEVATION 97'-0" V.I.F.

BASE ROOM
ELEVATION 83'-10" V.I.F.

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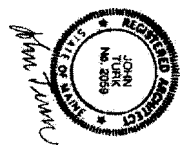
BASE ROOM
ELEVATION 83'-10" V.I.F.

GENERAL NOTES

1. ALL EXISTING GULCH SHALL BE REMOVED FROM MASONRY JOINTS AND SURFACES. SEE SPECIFICATION SECTION 0448 - GULCH REMOVAL AND GENERAL CLEANING OF GRANITE.
2. ALL EXPOSED MASONRY SURFACES SHALL RECEIVE A LIGHT RESTORATION CLEANING TO 85% CLEAN. SEE SPECIFICATION SECTION 0448 - GULCH REMOVAL AND GENERAL CLEANING OF GRANITE.
3. ALL MASONRY JOINTS SHALL BE HAND RAKED OF EXISTING MORTAR TO A MINIMUM DEPTH OF 3/4" OR TWO TIMES THE WIDTH OF JOINT (WHICHEVER IS GREATER), BUT IN ALL CASES RAKE BACK TO SOUND MORTAR. SEE SPECIFICATION SECTION 0445 - POINTING GRANITE MORTAR. SEE SPECIFICATION SECTION 0445 - POINTING GRANITE MORTAR.
4. ALL VERTICAL MASONRY JOINTS SHALL BE REPOINTED WITH MORTAR. SEE SPECIFICATION SECTION 0445 - POINTING GRANITE MORTAR.
5. ALL SKYWARD FACING (AND CURVING) MASONRY JOINTS SHALL BE REPOINTED WITH MORTAR. SEE SPECIFICATION SECTION 0445 - POINTING GRANITE MORTAR. WATERPROOFING MASONRY JOINTS USING A LEAD DIPPING SYSTEM.
6. ALL EXISTING CLOCK LENSES TO BE REMOVED PRIOR TO CONSTRUCTION AND TO BE RESTORED BY CLOCK RESTORATION COMPANY. GC SHALL BE RESPONSIBLE FOR INSTALLING NEW CURVED WOOD FRAME TO RECEIVE RESTORED CLOCK LENSES. GC ALSO RESPONSIBLE FOR PROVIDING TEMPORARY WEATHERPROOFING AT MASONRY OPENING DURING LENS RESTORATION.
7. SEE DRAWING OPS-1 FOR SUGGESTED CONSTRUCTION, RESTORATION AND REPAIR DETAILS. GC SHALL OBTAIN QUANTITIES TO SCHEDULE ON SITE MEETING TIME WITH HARDWARE ENGINEER TO VIEW STONE EXTRACTION AND TO EXAMINE HIDDEN CONDITIONS. GC TO PROVIDE MIN. 36 HOUR NOTICE.
8. SEE DRAWING AS DETAILS 11.12.13.14 FOR TYPICAL SECTION DETAILS AT REGLETTS. CRACK REPAIR SECTION UNDER 2" DEPTH, AND SECTION REPAIR OVER 2" DEPTH.

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Clock Tower Restoration
Portland City Hall
389 Congress Street
Portland, Maine

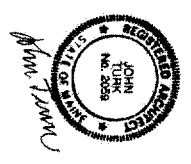
Date: 30 January 2006
Scale: As Shown
Revisions:

Title:
South, East &
Belfry Elevations

Sheet:
A-3

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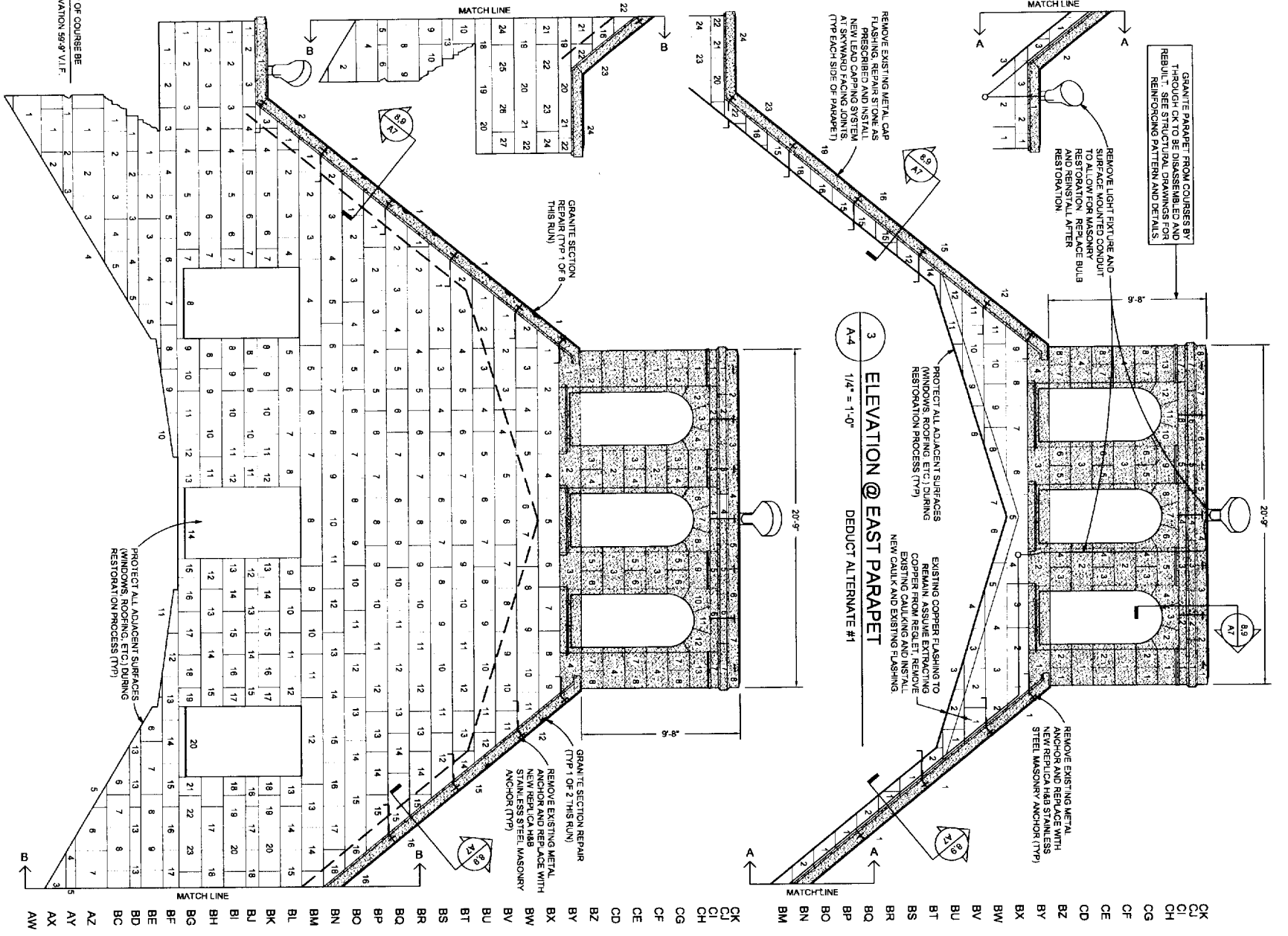


Clock Tower Restoration
Portland City Hall
 389 Congress Street
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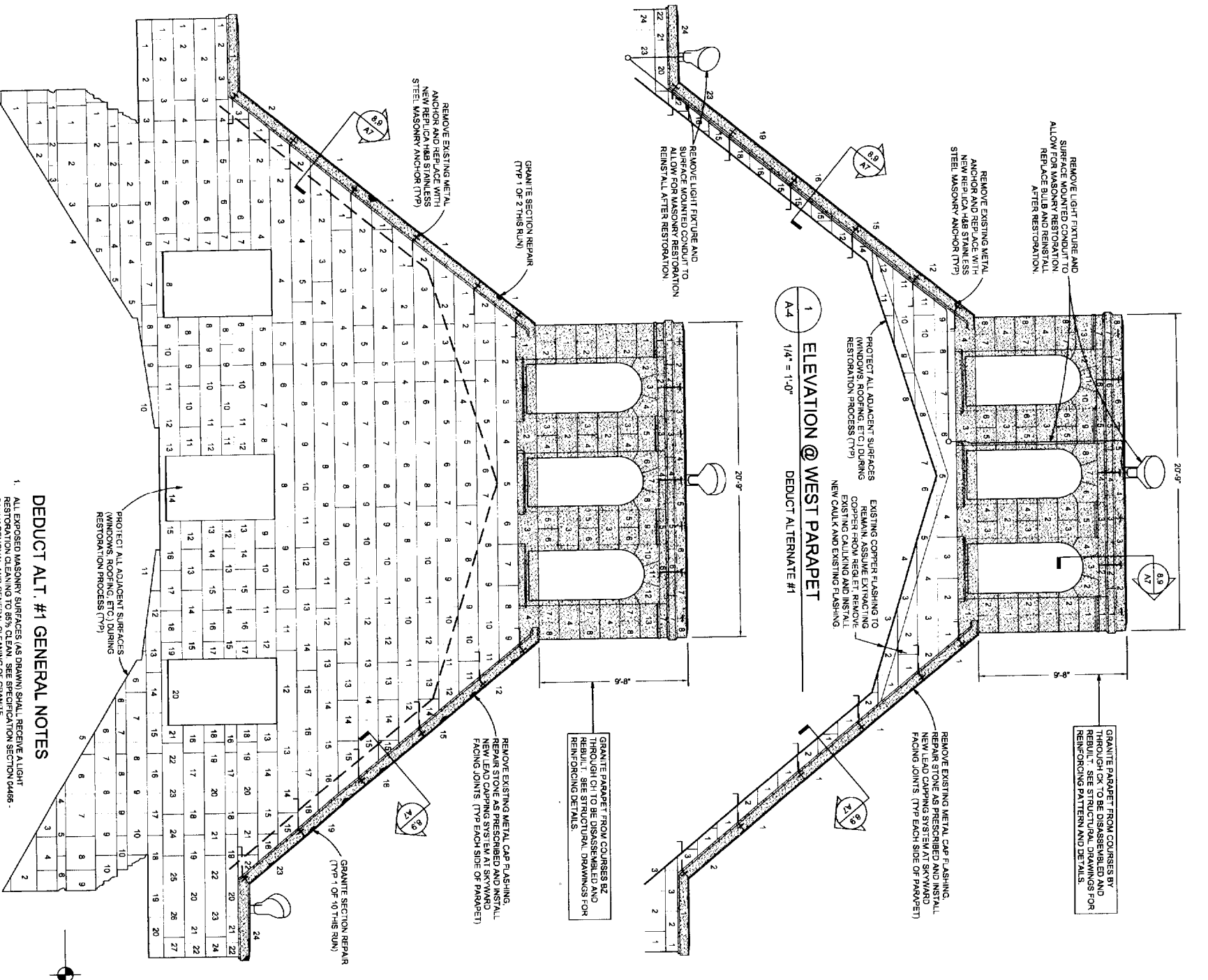
Date: 30 January 2006
 Scale: As Shown
 Revisions:

Title:
 Parapet
 Deduct Alternate

Sheet:
A-4



3 ELEVATION @ EAST PARAPET
 DEDUCT ALTERNATE #1
 1/4" = 1'-0"

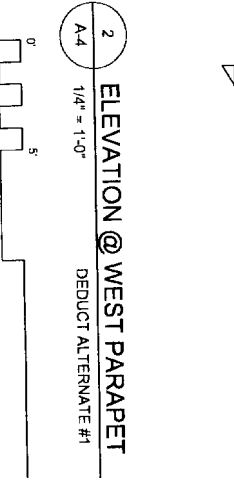


1 ELEVATION @ WEST PARAPET
 DEDUCT ALTERNATE #1
 1/4" = 1'-0"

DEDUCT ALT. #1 GENERAL NOTES

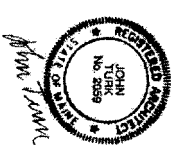
- ALL EXPOSED MASONRY SURFACES (AS DRAWN) SHALL RECEIVE A LIGHT RESTORATION CLEANING TO 85% CLEAN. SEE SPECIFICATION SECTION 0485 - CAULK REMOVAL AND GENERAL CLEANING OF GRANITE.
- ALL MASONRY JOINTS SHALL BE HAND RAKED OF EXISTING MORTAR TO A MINIMUM DEPTH OF 3/4" OR TWO TIMES THE WIDTH OF JOINT (WHICHEVER IS GREATER), BUT IN ALL CASES RAKE BACK TO SOUND MORTAR. SEE SPECIFICATION SECTION 0485 - POINTING GRANITE.
- ALL VERTICAL JOINTS SHALL BE REPOINTED, AS PER NOTE ABOVE. SEE SPECIFICATION SECTION 0485 - POINTING GRANITE.
- ALL SKYWARD FACING TOP OF PARAPET MASONRY JOINTS SHALL RECEIVE NEW LEAD CAPPING SYSTEM. SEE SPECIFICATION SECTION 0450 - WATERPROOFING MASONRY JOINTS USING A LEAD CAPPING SYSTEM.
- SEE DRAWING A-8 DETAILS 11, 12, 13, 14 FOR TYPICAL SECTION DETAILS AT RESULTS CRACK REPAIR, SECTION REPAIR UNDER 2" DEPTH, AND SECTION REPAIR OVER 2" DEPTH.

2 ELEVATION @ WEST PARAPET
 DEDUCT ALTERNATE #1
 1/4" = 1'-0"



4 ELEVATION @ EAST PARAPET
 DEDUCT ALTERNATE #1
 1/4" = 1'-0"





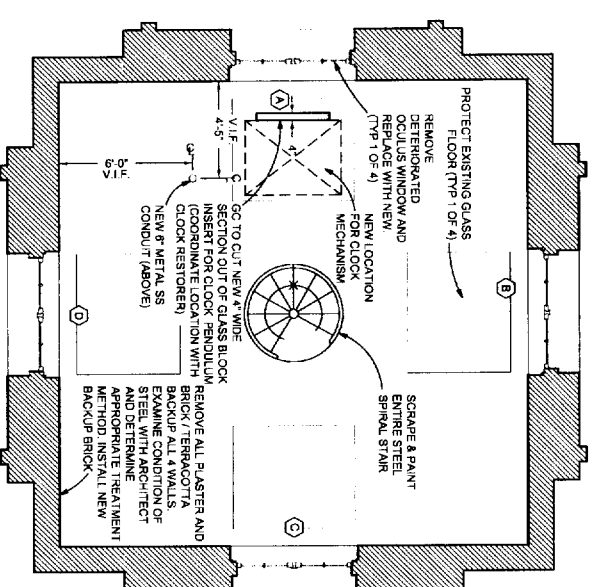
Clock Tower Restoration
Portland City Hall
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Date: 30 January 2006
 Scale: As Shown
 Revisions:

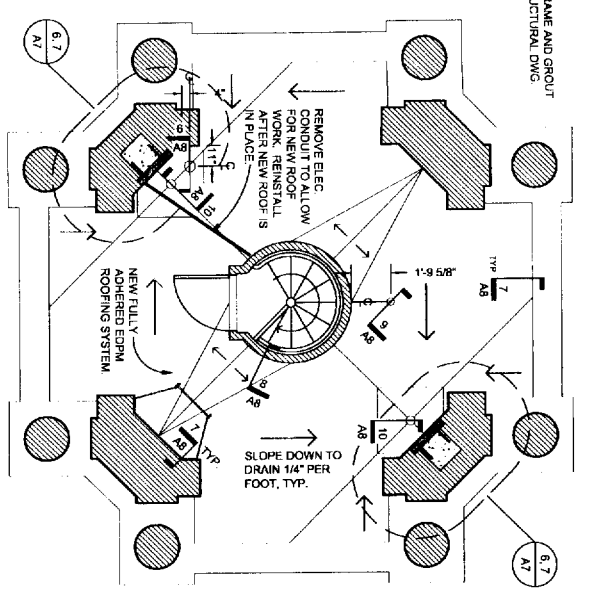
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 Building Section &
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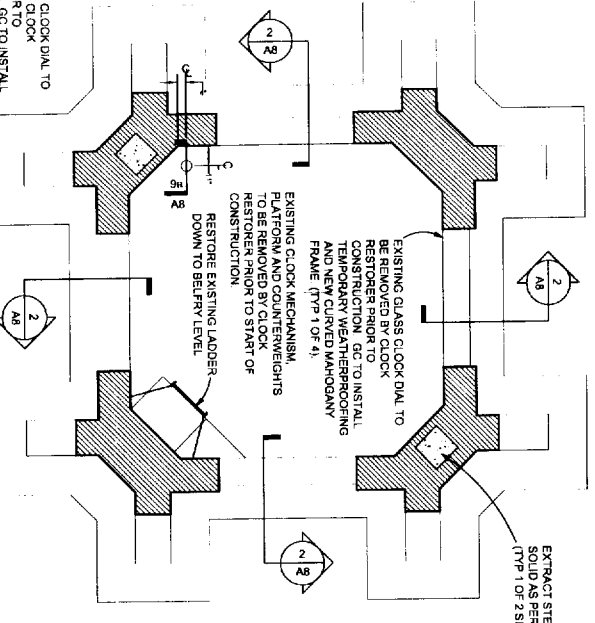
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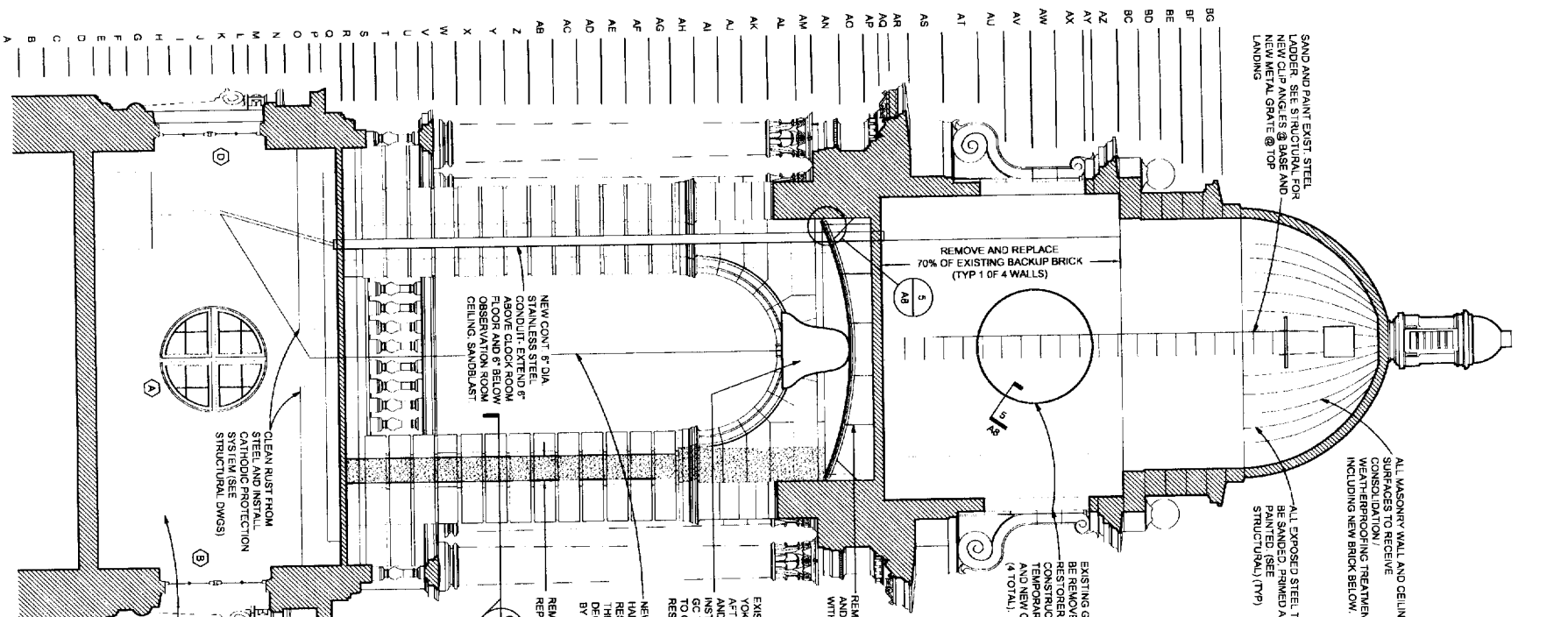
4 FLOOR PLAN @ OBSERVATION ROOM
 1/4" = 1'-0"



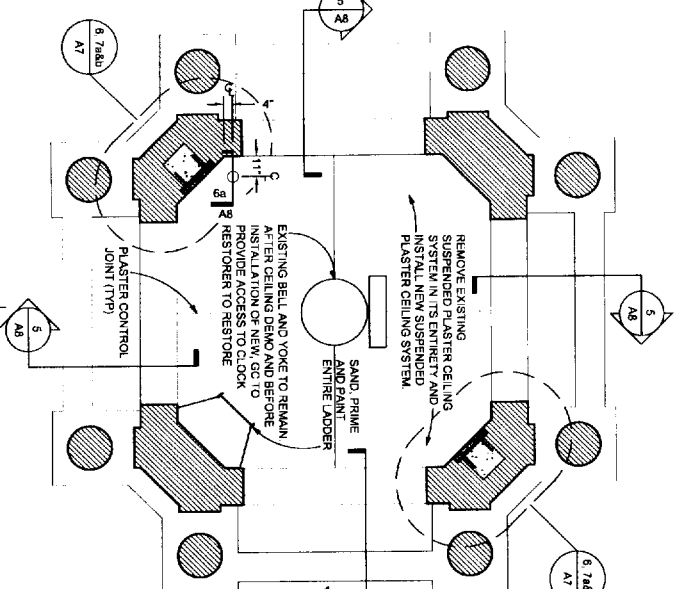
3 FLOOR PLAN @ BELFRY
 1/4" = 1'-0"



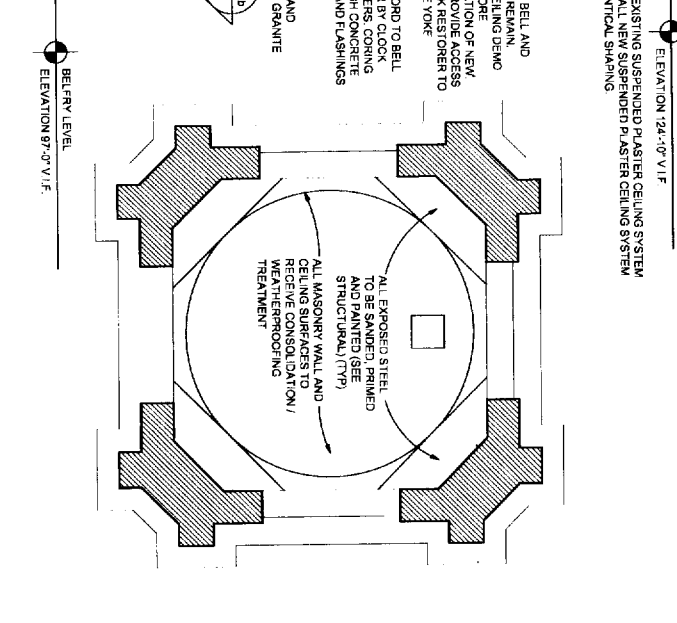
2 FLOOR PLAN @ CLOCK ROOM
 1/4" = 1'-0"



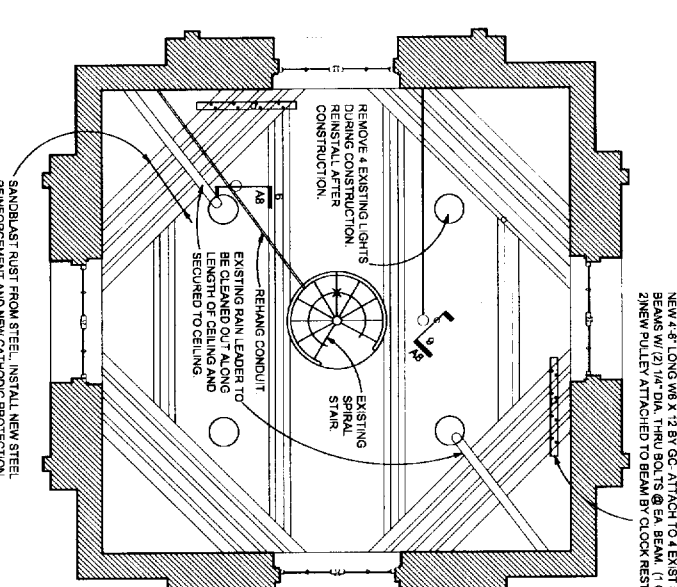
1 BUILDING SECTION THROUGH CLOCK TOWER
 1/4" = 1'-0"



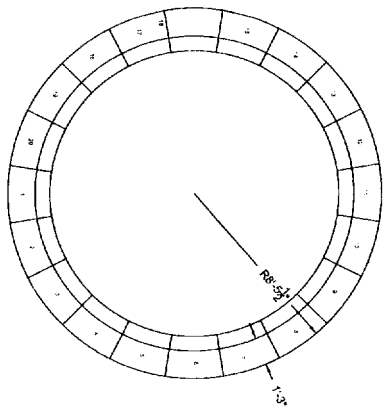
6 REFLECTED CEILING PLAN @ BELFRY
 1/4" = 1'-0"



5 REFLECTED CEILING PLAN @ CLOCK ROOM
 1/4" = 1'-0"

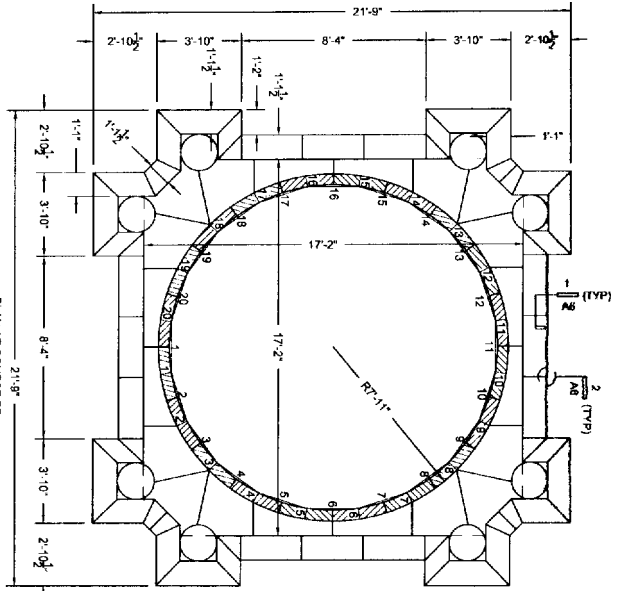
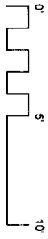


7 REFLECTED CEILING PLAN @ OBSERVATION
 1/4" = 1'-0"



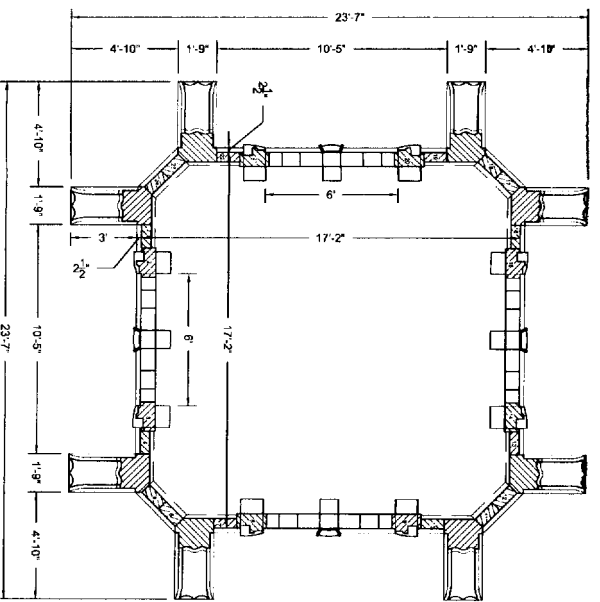
PLAN AT COURSE BG

1 PLAN @ COURSE BG
A-6 1/4" = 1'-0"



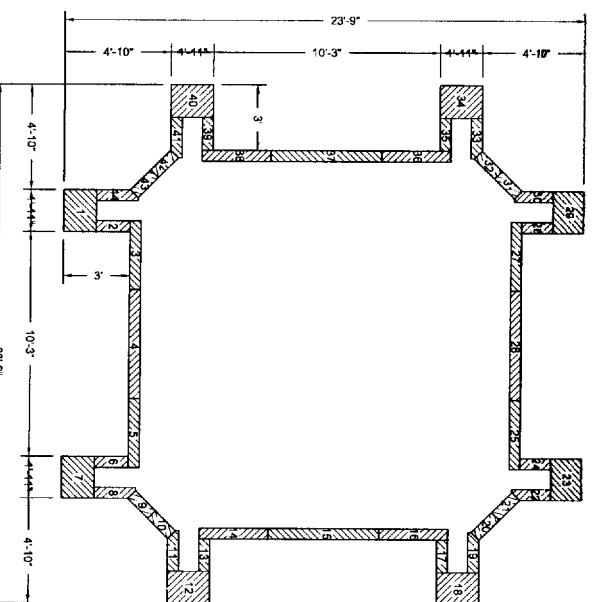
PLAN AT COURSE BF

2 PLAN @ COURSE BF
A-6 1/4" = 1'-0"



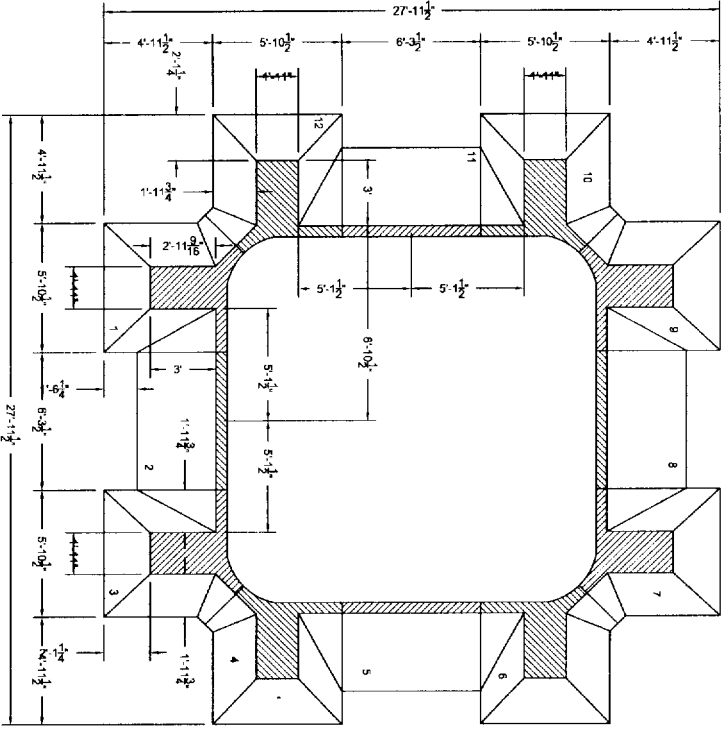
PLAN AT COURSE AW

3 PLAN @ COURSE AW



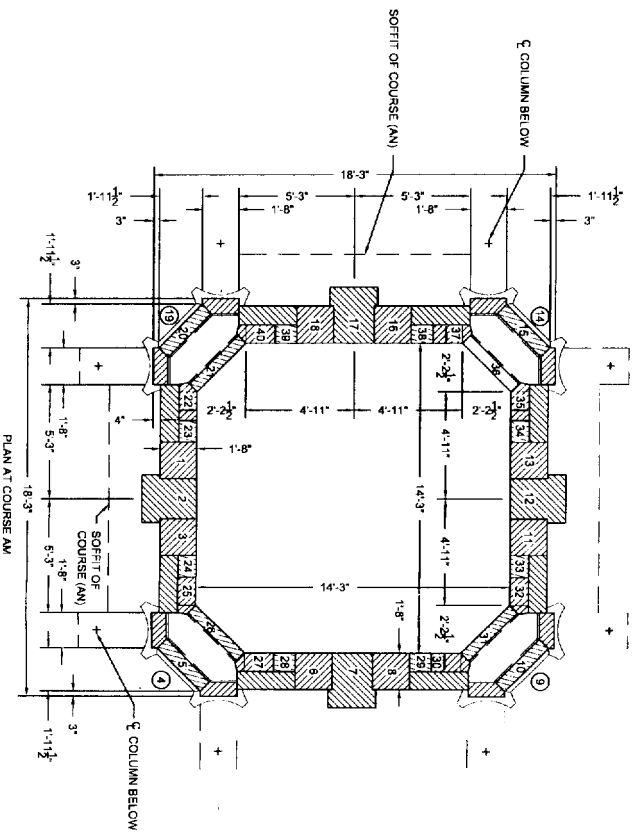
PLAN AT COURSE AS

4 PLAN @ COURSE AS
A-6 1/4" = 1'-0"



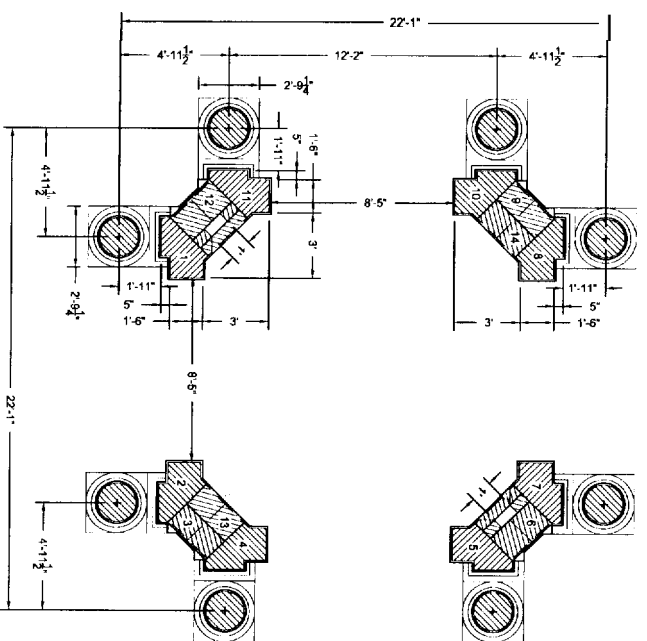
PLAN AT COURSE AR

5 PLAN @ COURSE AR
A-6 1/4" = 1'-0"



PLAN AT COURSE AM

6 PLAN @ COURSE AM
A-6 1/4" = 1'-0"



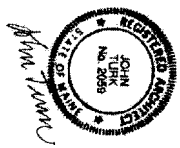
PLAN AT COURSE AD

7 PLAN @ COURSE AD
A-6 1/4" = 1'-0"

THESE GRANITE DIAGRAMS ARE PROVIDED FOR INFORMATION ONLY. GRANITE SIZES INDICATED HAVE NOT BEEN VERIFIED, BUT ARE BASED ON THE ORIGINAL 1910 SHOP DRAWINGS.

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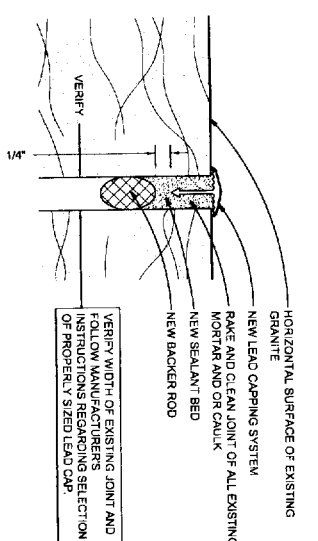
RESURGENCE
ENGINEERING & PRESERVATION
132 BRENTWOOD STREET
PORTLAND, MAINE
TEL: 207.734.8880



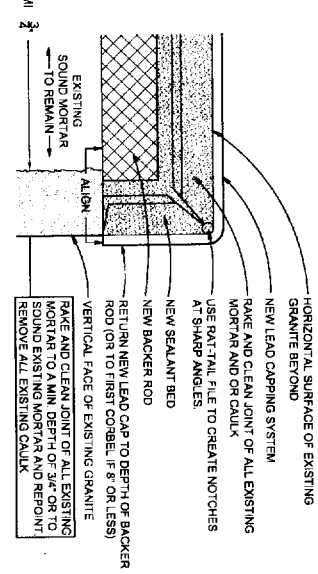
Clock Tower Restoration
Portland City Hall
389 Congress Street
Portland, Maine

Date: 30 January 2000
Scale: As Shown
Revisions:

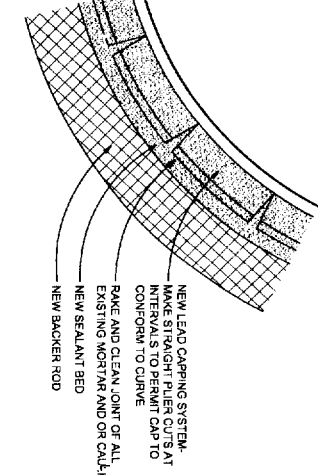
Title:
Granite Diagrams
@ Various
Masonry Courses
Sheet:
A-6



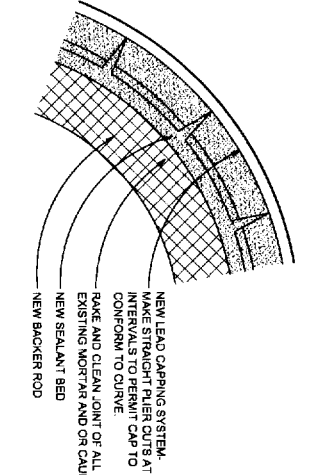
1 LEAD CAP @ HORIZONTAL JOINT
FULL SIZE



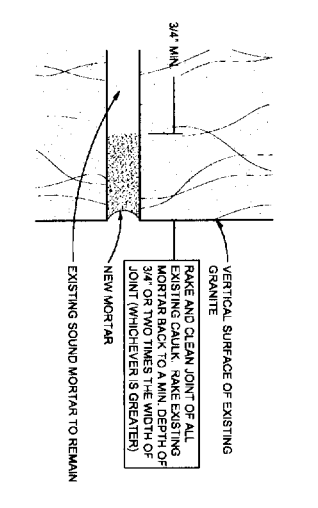
2 LEAD CAP @ HORIZONTAL JUNCTURE
FULL SIZE



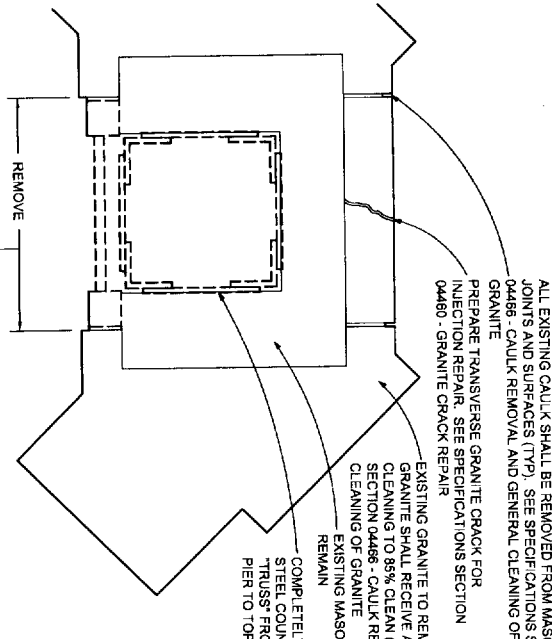
3 LEAD CAP @ INSIDE CURVE
FULL SIZE



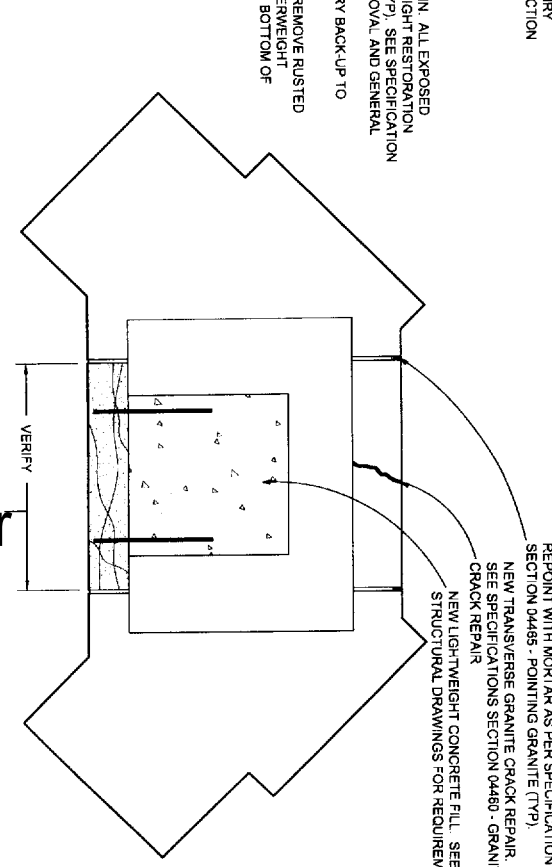
4 LEAD CAP @ OUTSIDE CURVE
FULL SIZE



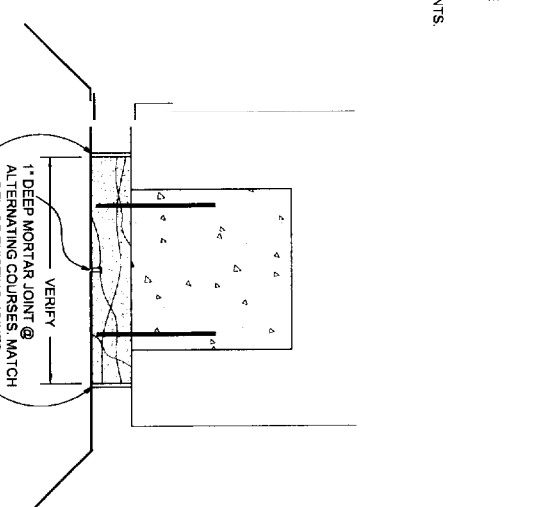
5 TYP. JOINT @ VERT. SURFACE
FULL SIZE



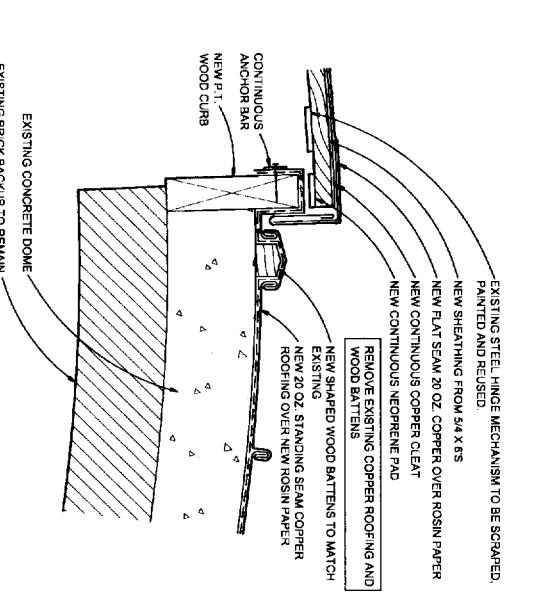
6 DEMOLITION PLAN @ HOLLOW PIER
1 1/2" = 1'-0"



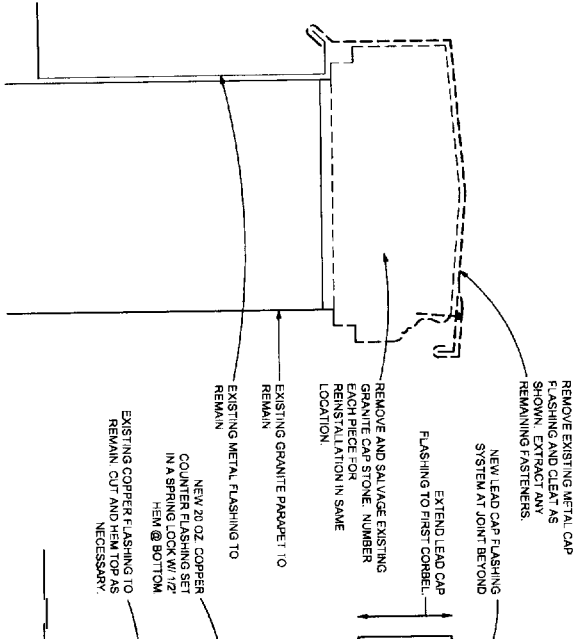
7a NEW PLAN @ HOLLOW PIER
1 1/2" = 1'-0"



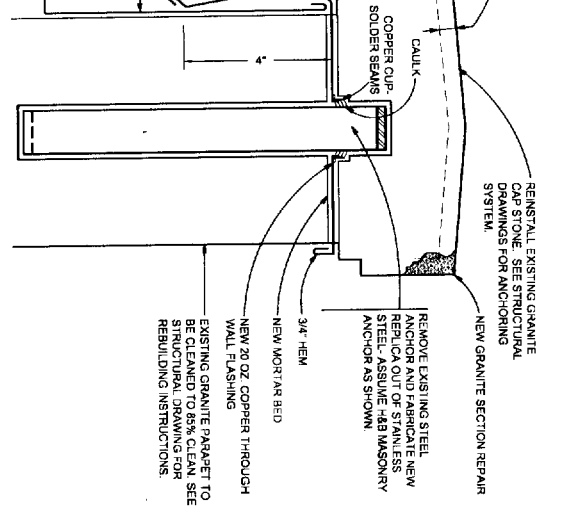
7b NEW PLAN @ HOLLOW PIER
1 1/2" = 1'-0"



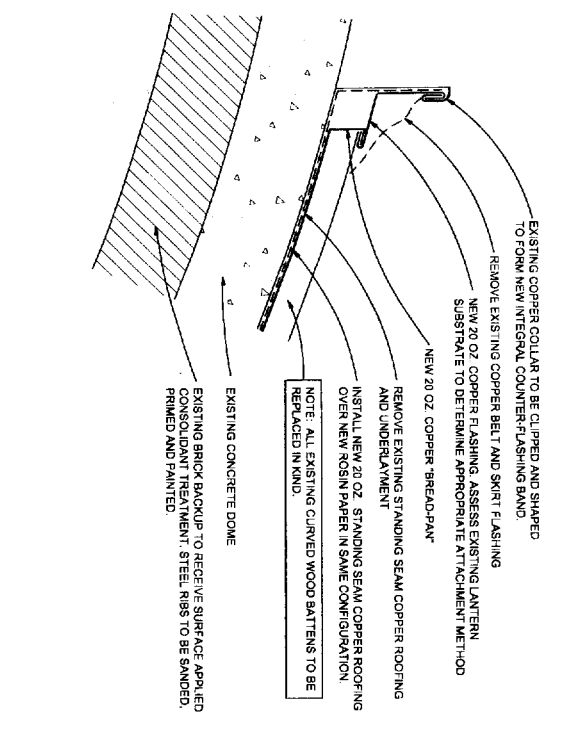
10 SECTION DETAIL @ DOME HATCH
3" = 1'-0"



9 RESTORATION @ PARAPET DEDUCT ALT.
3" = 1'-0"

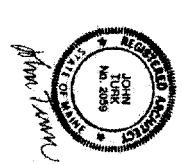


11 SECTION DETAIL @ LANTERN/DOME INTERSECTION
3" = 1'-0"



12 SECTION DETAIL @ BASE OF COPPER DOME
3" = 1'-0"

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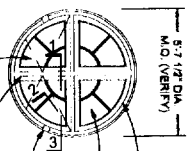


Clock Tower Restoration
Portland City Hall
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Title: Details @ Masonry & @ Copper Dome
Date: 30 January 2006
Scale: As Shown
Revisions:

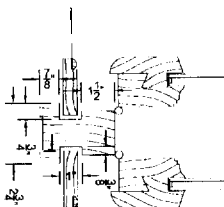
NEW OCULUS WINDOWS

1/4" = 1'-0"



- A** NEW OCULUS WINDOW WITH OPERABLE BOTTOM CASEMENTS (INTERIOR VIEW)
- B** NEW OCULUS WINDOW WITH OPERABLE BOTTOM CASEMENTS (INTERIOR VIEW)
- C** NEW OCULUS WINDOW WITH OPERABLE BOTTOM CASEMENTS (INTERIOR VIEW)
- D** NEW OCULUS WINDOW WITH OPERABLE BOTTOM CASEMENTS (INTERIOR VIEW)

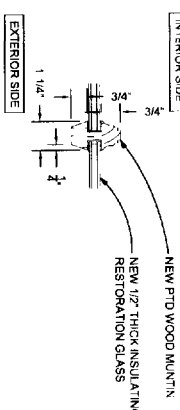
PEN DETAIL @ CENTER STYLE SHOWING SCREEN



- NEW FIXED PTD WOOD FRAME
- NEW CASSEMENT IN OPEN POSITION
- NEW 1" THICK WOOD FRAMED SCREEN WITH BRONZE SCREEN-PROVIDE 1/4" WIDE WEFP SLOT AT BOTTOM PAINT WOOD.
- NEOPRENE WEATHERSTRIPPING (TYP)
- NEW 1/2" INSULATING RESTORATION GLASS

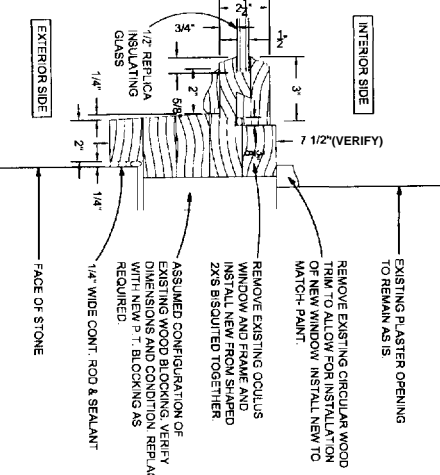
1 PLAN DETAIL @ CENTER STYLE

A-B 3" = 1'-0"



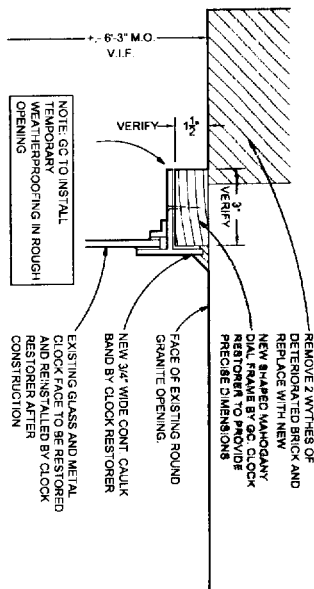
2 PLAN DETAIL @ MUNTIN

A-B 3" = 1'-0"



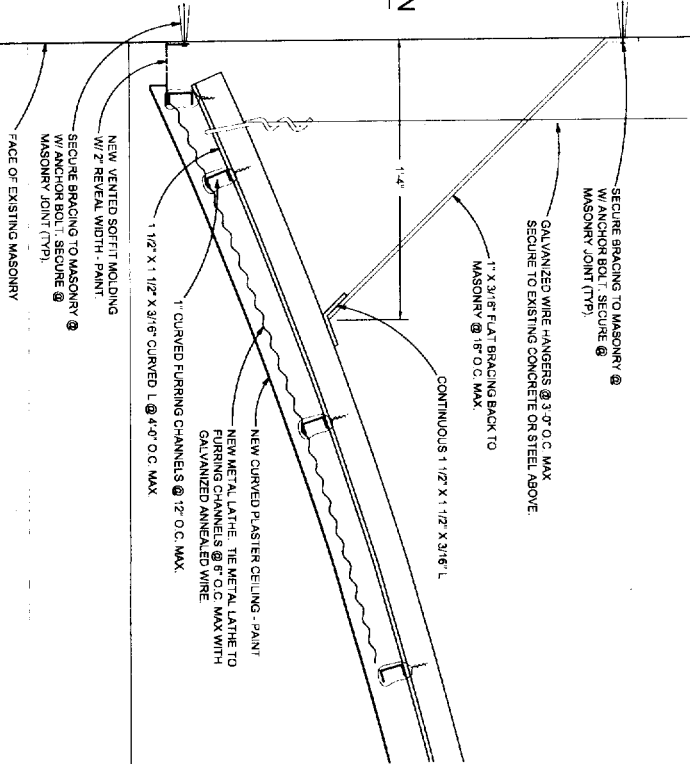
3 JAMB DETAIL @ WINDOW

A-B 3" = 1'-0"



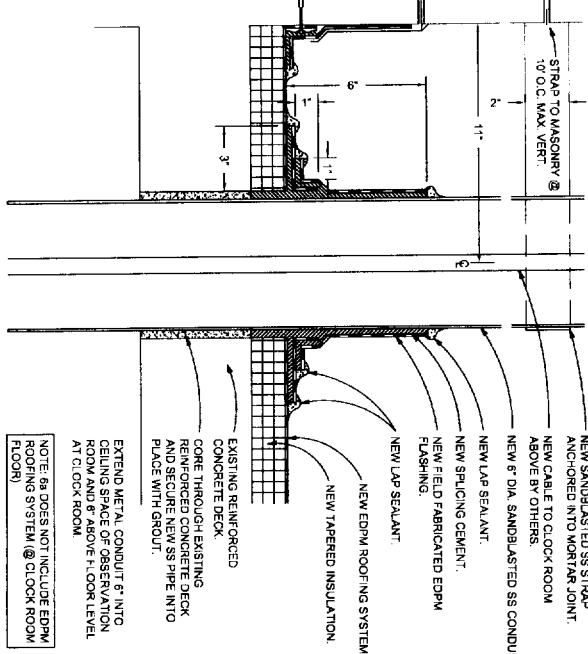
4 SECTION DETAIL @ NEW WOOD FRAME FOR CLOCK

A-B 3" = 1'-0"



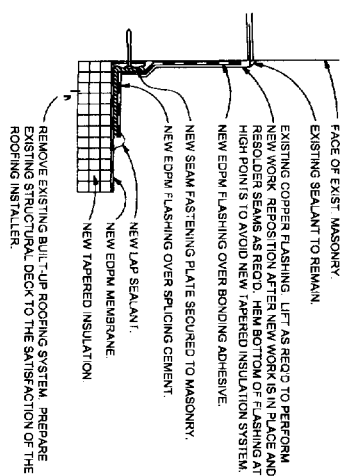
5 SECTION DETAIL @ NEW PLASTER CEILING

A-B 3" = 1'-0"



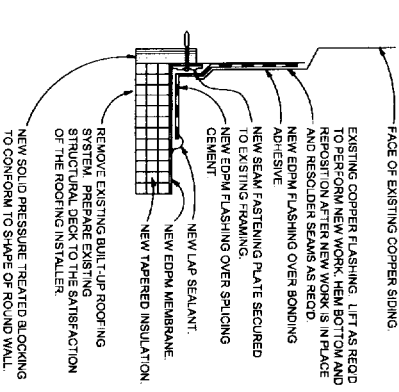
6 SECTION DETAIL @ NEW CONDUIT

A-B 3" = 1'-0"



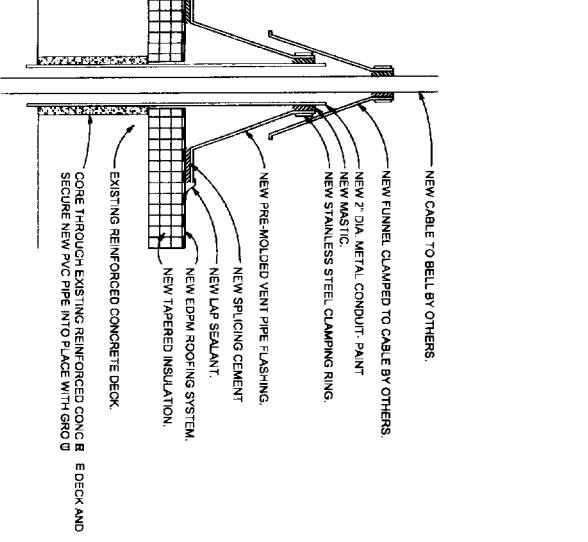
7 SECTION DETAIL @ EDPM-MASONRY

A-B 3" = 1'-0"



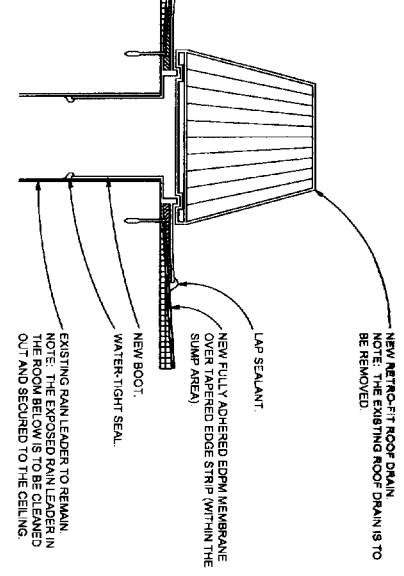
8 SECTION DETAIL @ EDPM-FRAMED WALL

A-B 3" = 1'-0"



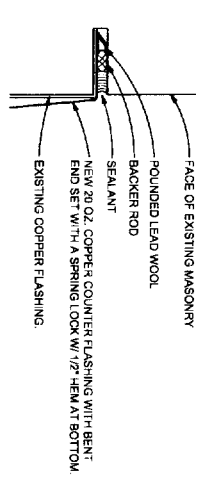
9 SECTION DETAIL @ NEW CABLE PENETRATION

A-B 3" = 1'-0"



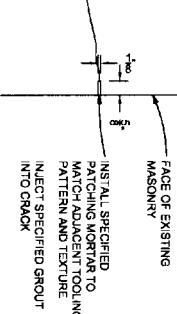
10 SECTION DETAIL @ NEW ROOF DRAIN

A-B 3" = 1'-0"



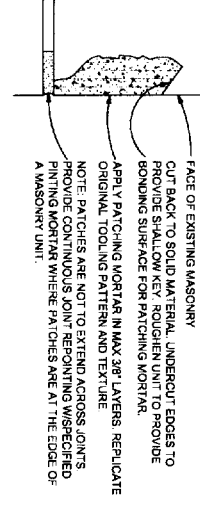
11 SECTION DETAIL @ TYPICAL REGLET

A-B 3" = 1'-0"



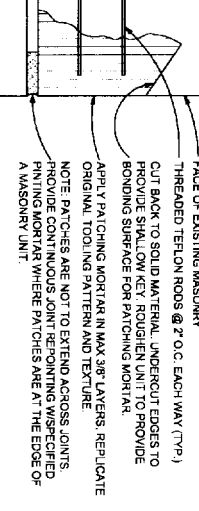
12 SECTION DETAIL @ TYPICAL CRACK REPAIR

A-B 3" = 1'-0"



13 TYPICAL SECTION REPAIR (LESS 2" DEEP)

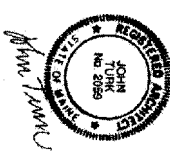
A-B 3" = 1'-0"



14 TYPICAL SECTION REPAIR (OVER 2" DEEP)

A-B 3" = 1'-0"

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Clock Tower Restoration
Portland City Hall
389 Congress Street
Portland, Maine

Title: Window Details Misc. Details
Date: 30 January 2006
Scale: As Shown
Revisions:
Sheet: A-8

STRUCTURAL GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS. FURTHERMORE, THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR THE SAFETY OF ADJACENT PROPERTY AND THE PUBLIC. PORTLAND CITY HALL WILL BE OPEN TO THE PUBLIC DURING CONSTRUCTION OF THIS PROJECT. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE AND MAINTAIN SIGNAGE, BARRICADES, AND FENCING THROUGHOUT THE PROJECT.
2. NO PROVISIONS HAVE BEEN MADE FOR ANY TEMPORARY CONDITIONS THAT MAY ARISE DURING CONSTRUCTION PRIOR TO THE COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS, SHORING, AND TEMPORARY BRACING DURING THE PROJECT.
3. PRIOR TO WORK, THE CONTRACTOR SHALL REVIEW ALL ASPECTS OF SITE ACCESS, WORK SCHEDULE, AND COORDINATION TO ENSURE SMOOTH PROJECT FLOW.
4. WORK NOT INDICATED ON THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE INCLUDED.
5. THE CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS THAT MAY AFFECT THE WORK. BECAUSE THIS PROJECT INVOLVES RETROFITTING AND MODIFICATIONS OF EXISTING STRUCTURES, THE CONTRACTOR SHALL TAKE THE NECESSARY MEASURES TO FIELD VERIFY EXISTING CONDITIONS AS SHOWN ON THE DRAWINGS. IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES.
6. ANY MODIFICATION OR ALTERATION OF THESE CONSTRUCTION DOCUMENTS OR CHANGES IN CONSTRUCTION FROM THE INTENT OF THESE DOCUMENTS BY THE CONTRACTOR WITHOUT WRITTEN APPROVAL OF THE ENGINEER SHALL REMOVE ALL PROFESSIONAL AND LIABILITY RESPONSIBILITY ON THE PART OF THE ENGINEER. ALTERNATE CONNECTION DETAILS MAY BE USED IF SUBMITTED TO THE ENGINEER FOR REVIEW AND ACCEPTANCE GRANTED.
7. DO NOT SCALE FROM THE DRAWINGS.
8. SEE SPECIFICATION NOTES FOR EACH MATERIAL DIVISION FOR ADDITIONAL REQUIREMENTS.

DESIGN CRITERIA

1. INTERNATIONAL BUILDING CODE, 2003 EDITION; INCLUDING CONSIDERATION OF CHAPTER 34, EXISTING BUILDINGS, AND SECTION 506.6, HISTORIC STRUCTURES.
 - WIND LOAD (PARAPETS ONLY): PER IBC SECTION 1609.10/ASCE 7-02 CHAPTER 6
 - BASIC WIND SPEED, (3 SEC GUST) 100 mph
 - IMPORTANCE FACTOR I_w 1.15
 - EXPOSURE CATEGORY C
 - BUILDING CLASSIFICATION IV (ESSENTIAL FACILITY)
- SEISMIC LOAD (PARAPETS ONLY): PER IBC SECTION 1615.0, EARTHQUAKE DESIGN DATA PER SECTION 1616.3.

CONCRETE

1. ALL CONCRETE WORK AND REINFORCING BAR DETAILS, INCLUDING LAP SPICES, SHALL CONFORM TO THE LATEST ACI STANDARDS, ACI 308 AND 318.
2. ALL CONCRETE SHALL BE AIR ENHANCED (5% TO 7%) AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI UNLESS OTHERWISE NOTED.
3. PROVIDE MICROFIBERS AND/OR CORROSION INHIBITOR AS NOTED ON THE DRAWINGS.
4. PLACE CONCRETE WITH CONSTRUCTION JOINTS AS INDICATED ON THE DRAWINGS.
5. PLACE NO CONCRETE WITHOUT ENGINEER'S REVIEW AND APPROVAL OF THE REINFORCING AND EMBEDDED ITEMS.
6. FINALLY SECURE ALL EMBEDMENTS IN CONCRETE, INCLUDING REINFORCING BARS, BY NONMETALLIC TIE WIRE TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT. VERIFY AND COORDINATE ALL DIMENSIONS AND LOCATIONS OF CONDUIT, ANCHOR BOLTS, AND OTHER EMBEDDED ITEMS AS REQUIRED.
7. ALL CONCRETE MATERIALS, REINFORCEMENT AND FORMS SHALL BE FREE FROM FROST OR DEBRIS.
8. CONSOLIDATE ALL CONCRETE WITH A VIBRATOR OR OTHER MEANS RECOMMENDED BY ACI 301. HONEYCOMBED SURFACES WILL NOT BE PERMITTED.
9. ROUGHEN CONCRETE SURFACE TO A FULL AMPLITUDE OF 1/4" WHERE KEPT. CONSTRUCTION JOINTS ARE NOT INDICATED.
10. ALL CONCRETE REINFORCING SHALL BE ASTM A601M, STAINLESS STEEL, DEFORMED BARS. PROVIDE 1" CLEAR COVER TO ALL CONCRETE.

MASONRY AND MASONRY ACCESSORIES

1. REFER TO DIVISION 4 SPECIFICATIONS FOR MASONRY MATERIALS.
2. ALL MASONRY ANCHORS SHALL BE A316 STAINLESS STEEL UNLESS INDICATED ON THE DRAWINGS.

MASONRY

1. REFER TO SPECIFICATION DIVISION 4 FOR STONE AND BRICK MASONRY REQUIREMENTS.

STRUCTURAL STEEL

1. UNLESS NOTED, STRUCTURAL STEEL SHALL BE ASTM A992, $F_y = 50$ KSI. UNLESS NOTED, NEW A36 STRUCTURAL STEEL SHALL BE PRIMED WITH A ZINC-RICH PRIMER. STAINLESS STRUCTURAL STEEL SHALL BE ASTM A316.
2. WELDED CONSTRUCTION SHALL COMPLY WITH THE LATEST EDITION OF AWS D1.1. STRUCTURAL WELDING CODE FOR PROCEDURES, APPEARANCE, QUALITY OF WELDS, AND METHODS USED IN CONNECTING WELDING WORK. WELDING ELECTRODES SHALL BE CLASS E70XX.

SUBMITTALS

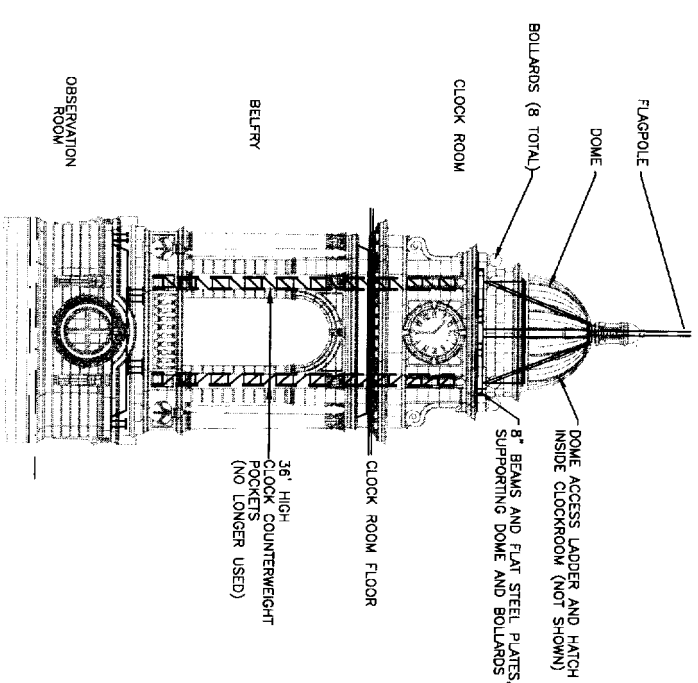
1. TEMPORARY SHORING AND CONSTRUCTION RIGGING LOADS: CONTRACTOR SHALL SUBMIT PLANS AND CALCULATIONS TO THE OWNER FOR REVIEW. PLANS AND CALCULATIONS SHALL BE SEALED BY A STRUCTURAL ENGINEER LICENSED IN MAINE. THE DRAWINGS MUST DETAIL AND DESCRIBE ANTICIPATED LOADINGS CREATED BY STAGING, TEMPORARY HOISTS AND TEMPORARY CONSTRUCTION CONDITIONS.
2. CONCRETE: SUBMIT CONCRETE MIX DESIGN, REBAR SUBMITTALS, AND CONCRETE REPAIR MATERIALS TO OWNER FOR REVIEW AND APPROVAL AT LEAST 10 BUSINESS DAYS PRIOR TO INTENDED PLACEMENT/REPAIR WORK.
3. MASONRY: SUBMIT BRICK SAMPLES, MORTAR SAMPLES, MORTAR MIX DESIGNS, MASONRY TIE SAMPLES AND STAINLESS STEEL HELIX, ANCHOR SAMPLES.
4. STRUCTURAL STEEL, PIECES AND METAL FASTENERS: SUBMIT SHOP DRAWINGS SHOWING MATERIAL PROPERTIES AND STRENGTHS IN ACCORDANCE WITH SPECIFICATIONS.
5. COATINGS AND PAINT: SUBMIT ALL CUTSHEETS AND MSDS SHEETS FOR PAINTS AND COATINGS AT LEAST 10 BUSINESS DAYS PRIOR TO APPLICATION.
6. PARAPET DISMANTLING (DUCT ALTERNATE): PROVIDE ELEVATIONS WITH KEPT STONES AS NUMBERED IN THE FIELD FOR DISMANTLING AND REINSTALLATION. ENGINEER TO VERIFY MARKINGS INDICATED ON STONE ARE SUFFICIENT TO ALLOW VISUAL INSPECTION OF NUMBERING DURING CONSTRUCTION.

SPECIAL INSPECTIONS

1. THIS PROJECT REQUIRES SPECIAL INSPECTIONS AS REQUIRED BY THE CITY OF PORTLAND AND CHAPTER 17 OF THE 2003 INTERNATIONAL BUILDING CODE. ADVANCE NOTICE OF CONSTRUCTION WORK MUST BE PROVIDED TO THE OWNER TO ENSURE PROPER SCHEDULING OF NECESSARY INSPECTIONS. FAILURE BY THE CONTRACTOR TO PROVIDE APPROPRIATE NOTICE OF WORK REQUIRING SPECIAL INSPECTION MAY DELAY WORK AT NO COST TO THE OWNER.
2. NECESSARY SPECIAL INSPECTIONS WILL BE PAID FOR BY THE OWNER. THESE INCLUDE, BUT ARE NOT LIMITED TO, CONCRETE MIX AND SLUMP TESTING, CONCRETE REINFORCEMENT INSPECTION, MASONRY ANCHOR INSTALLATION, MASONRY MORTAR MIX TESTING, AND WELDING INSPECTIONS. A COPY OF THE STATEMENT OF SPECIAL INSPECTIONS WILL BE PROVIDED TO BIDDERS IN ADDENDUM NUMBER ONE.

CONSTRUCTION SEQUENCING OF PRIMARY STRUCTURAL WORK

1. PRIOR TO PRECONSTRUCTION MEETING, SUBMIT A GANTT CHART DESCRIBING PROJECT AND CONSTRUCTION SEQUENCING, WITH ESTIMATED TIMELINE FOR PROJECT WORK ELEMENTS.
2. AT THE DISCRETION OF THE CONTRACTOR, CLOCK TOWER REHABILITATION WORK MAY PROCEED AT THE SAME TIME AS PARAPET REHABILITATION IF ALTERNATE IS APPROVED BY OWNER.
3. INCORPORATE OTHER WORK DESCRIBED ON ARCHITECTURAL DRAWINGS INTO CONSTRUCTION SEQUENCING AS NECESSARY.
4. TO MAINTAIN MAXIMUM STABILITY OF THE CLOCK TOWER AND TO VERIFY THAT RESTORATION AND WEATHERPROOFING WORK IS SUCCESSFUL, THE FOLLOWING CONSTRUCTION SEQUENCE IS SUGGESTED. HOWEVER, MEANS AND METHODS ARE ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR.
 - A. INSTALL FENCING AND PROTECTION TO PROTECT THE PUBLIC AND AREAS VULNERABLE TO WORK CONDITIONS. ERECT SCAFFOLDING AS NECESSARY TO PROVIDE ACCESS TO TOWER BELOW BOLLARD LEVEL. A "TOP-DOWN" APPROACH TO CONSTRUCTION MAY PROVIDE THE MAXIMUM LEVEL OF STABILITY AND THE MINIMUM AMOUNT OF CLEANUP AND MOBILIZATION EFFORTS.
 - B. PERFORM BOLLARD REMOVAL IN ONE QUADRANT TO ENABLE APPROPRIATE INSPECTION BY ENGINEER AND ARCHITECT. PROCEED WITH REPAIRS AT THIS LEVEL AS DETERMINED BY FIELD CONDITIONS. PERFORM SELECTED STONE REMOVAL AS INDICATED ON ARCHITECTURAL DRAWINGS AT DIFFERENT LEVELS TO DETERMINE CONDITION OF STRUCTURAL STEEL AND TO CORRECT REPAIR ASSUMPTIONS.
 - C. PERFORM WORK IN CLOCK ROOM, BELVEY CEILING, AND ABOVE BOLLARD LEVEL. EXACT SEQUENCING AT CONTRACTOR DISCRETION.
 - D. PROCEED WITH STRENGTHENING AND REPAIR AT NORTHEAST AND SOUTHWEST COLUMNS AND PERFORM STRUCTURAL GRANITE REPAIRS.
 - E. PERFORM REPAIRS AT BELVEY LEVEL AND IN OBSERVATION ROOM AFTER OBSERVATION AND TESTING OF STRUCTURE'S RESISTANCE TO MOISTURE INFILTRATION.

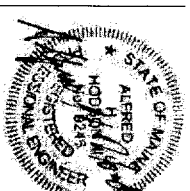


CLOCK TOWER -- KEY ELEVATION

SCALE: NOT TO SCALE

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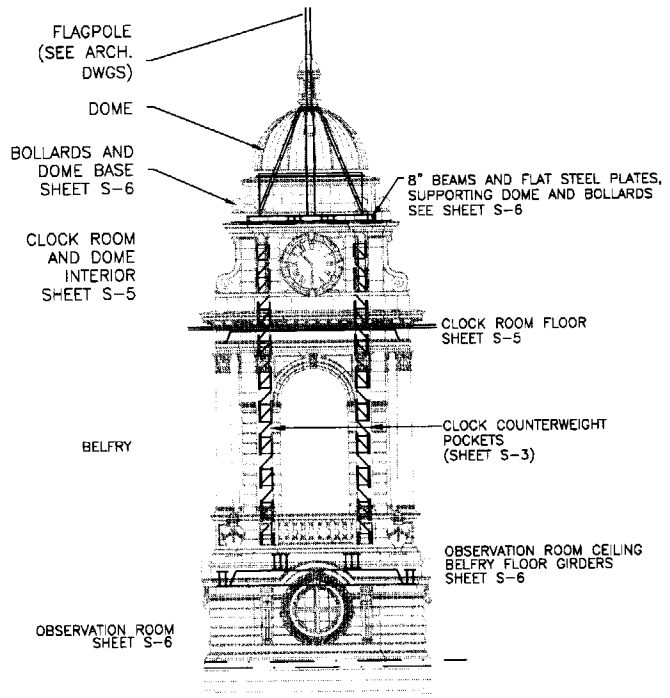
Clock Tower Restoration
Portland City Hall
 389 Congress Street
 Portland, Maine

Date: 18 January 2006
 Scale: As Shown
 Revisions:

Title:
 Structural General Note
 and Construction
 Sequencing

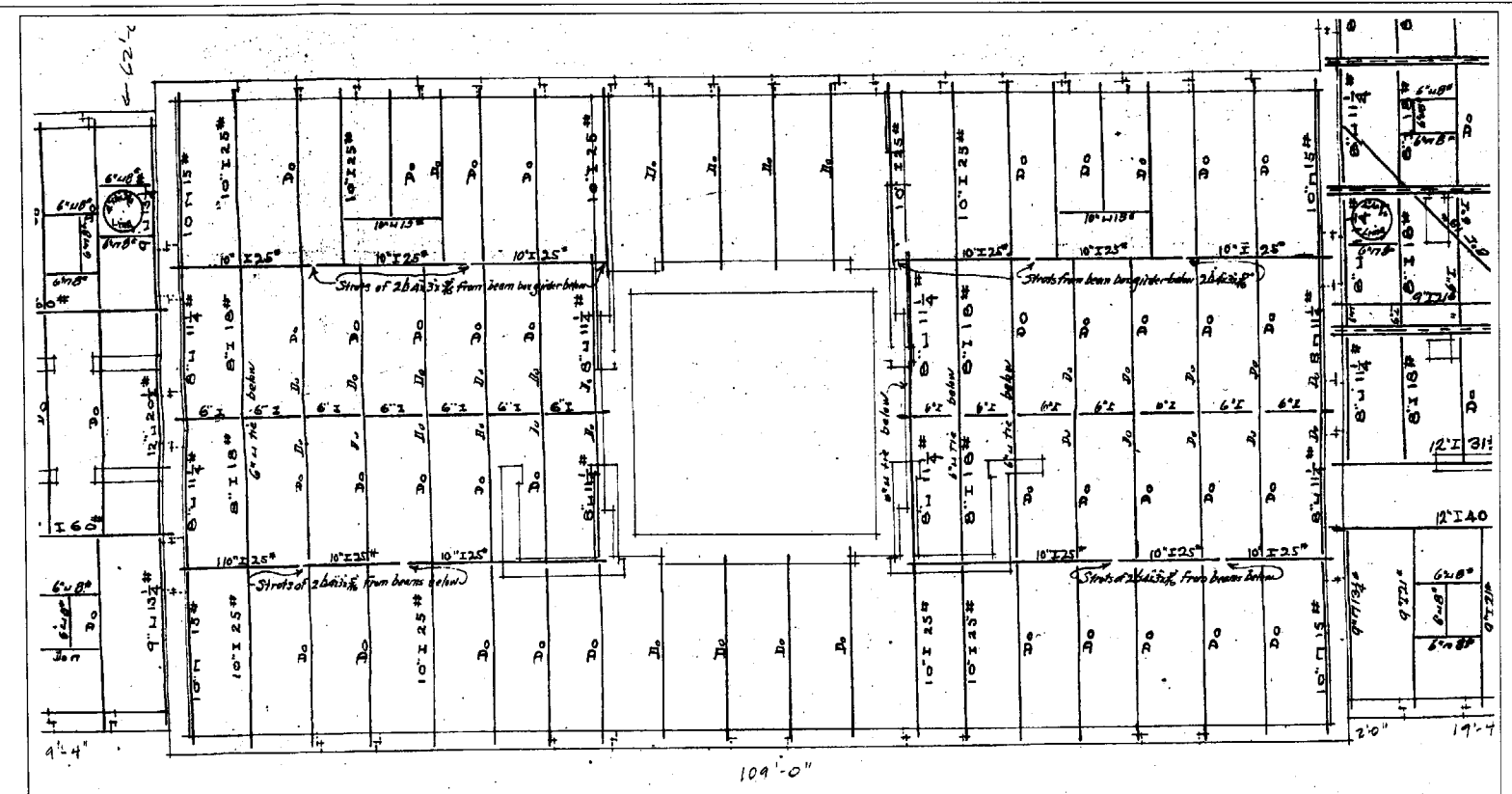
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S-1



**CLOCK TOWER REHABILITATION
KEY STRUCTURAL WORK AREAS**

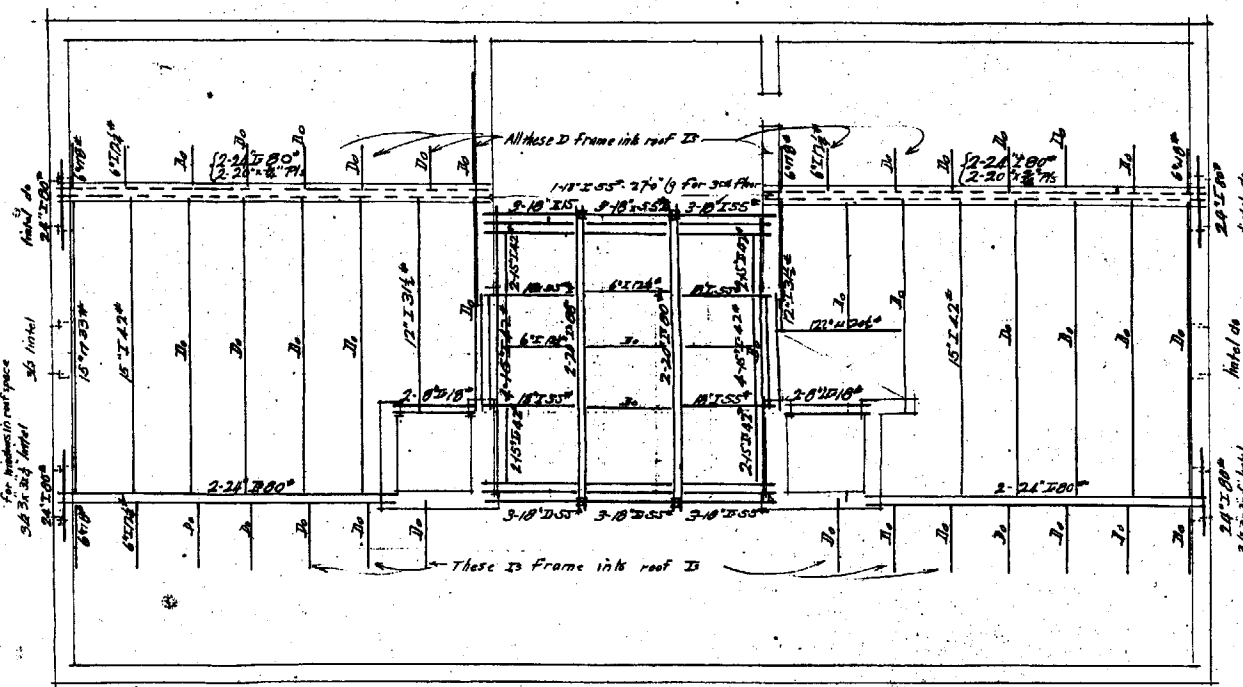
SCALE: NOT TO SCALE



EXISTING ROOF FRAMING PLAN

SCALE: APPROX. 1/8" = 1'-0"

FRAMING OF ROOF



EXISTING ATTIC FRAMING PLAN

SCALE: APPROX. 1/8" = 1'-0"

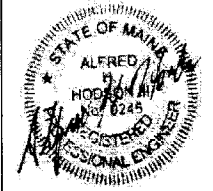
FLOOR OF ROOF SPACE

NOTE: ADDITIONAL FRAMING PLANS WILL BE PROVIDED UPON AWARD OF BID.

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92 EXCHANGE STREET
PORTLAND, MAINE 04101
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RESURGENCE
ENGINEERING AND ARCHITECTURE
132 BERRY WOODS DRIVE
PORTLAND, ME 04108
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RESURGENCE@GMAIL.COM

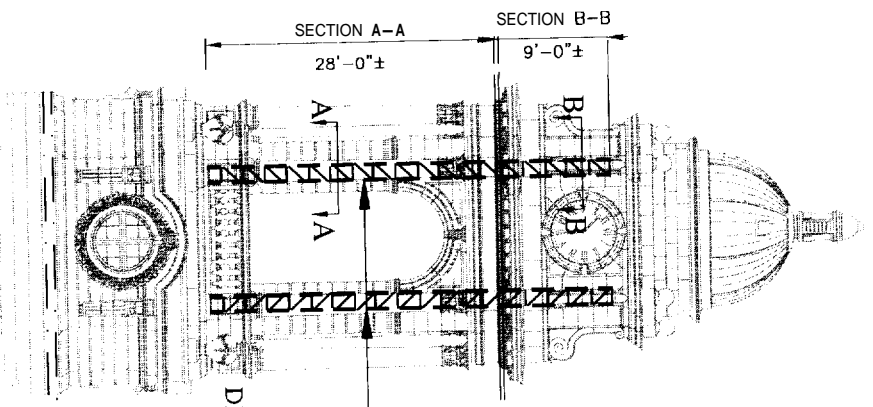


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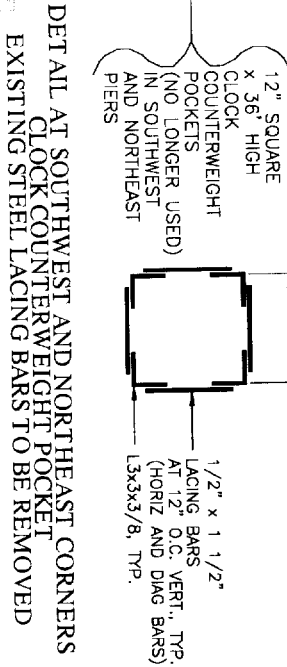
Date: 28 January 2006
Scale: As Shown
Revisions:

Title:
Existing Steel Framing
and Key Plans

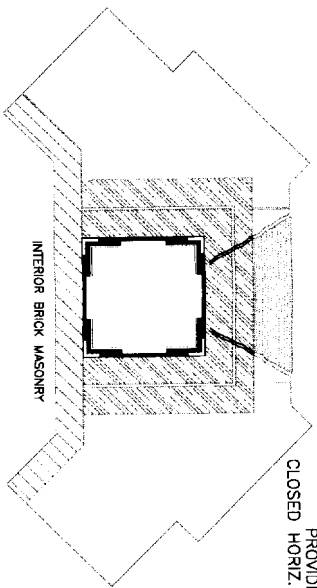
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S-2



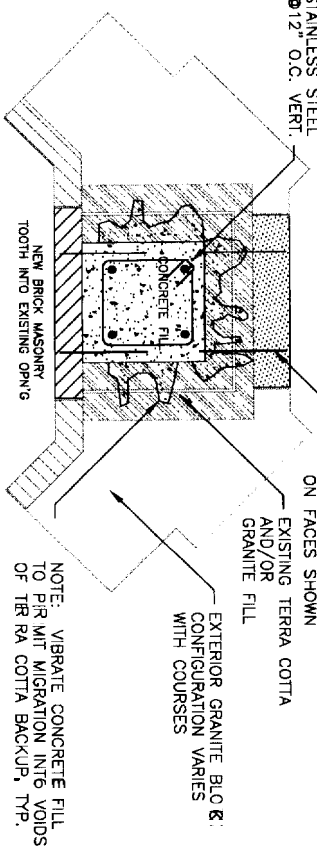
KEY ELEVATION
SCALE: NOT TO SCALE



DETAIL AT SOUTHWEST AND NORTHEAST CORNERS OF CLOCK COUNTERWEIGHT POCKET
EXISTING STEEL LACING BARS TO BE REMOVED

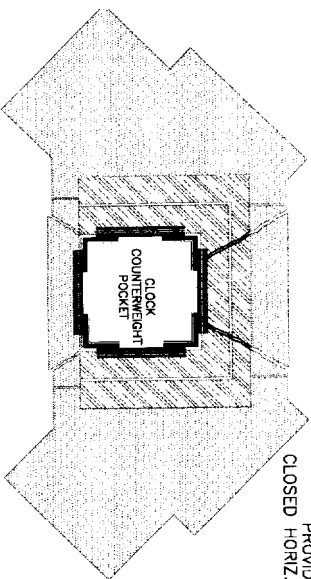


1'-0" SQUARE POCKET VOID
FILL w/ CONCRETE AND REINFORCE WITH FOUR #4 STAINLESS STEEL REBARS HAVING CLASS C LAP SPLICES OR MECH. BAR SPLICES AS REQUIRED FOR CONSTRUCTION PROVIDE #3 STAINLESS STEEL CLOSED HORIZ. TIES @ 12" O.C. VERT.

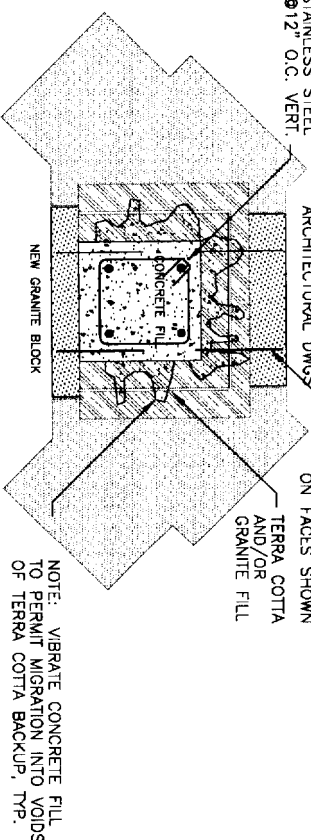


1. PROVIDE TEMPORARY SHORING FOR COLUMN TO MAINTAIN STRUCTURAL STABILITY.
2. REMOVE SHORT SECTIONS OF THE EXISTING STEEL ANGLE FRAME AND REPLACE WITH APPROPRIATELY REINFORCED FILL MATERIAL AND GRANITE CLADDING PRIOR TO PLACING CONCRETE.

B-B SECTION INSIDE CLOCK ROOM
SCALE: 1 1/2" = 1'-0"



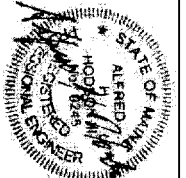
1'-0" SQUARE POCKET VOID
FILL w/ CONCRETE AND REINFORCE WITH FOUR #4 STAINLESS STEEL REBARS HAVING CLASS C LAP SPLICES OR MECH. BAR SPLICES AS REQUIRED FOR CONSTRUCTION PROVIDE #3 STAINLESS STEEL CLOSED HORIZ. TIES @ 12" O.C. VERT.



1. PROVIDE TEMPORARY SHORING FOR COLUMN TO MAINTAIN STRUCTURAL STABILITY.
2. REMOVE SHORT SECTIONS OF THE EXISTING STEEL ANGLE FRAME AND REPLACE WITH APPROPRIATELY REINFORCED FILL MATERIAL AND GRANITE CLADDING PRIOR TO PLACING CONCRETE.

A-A SECTION AT BELFRY
SCALE: 1 1/2" = 1'-0"

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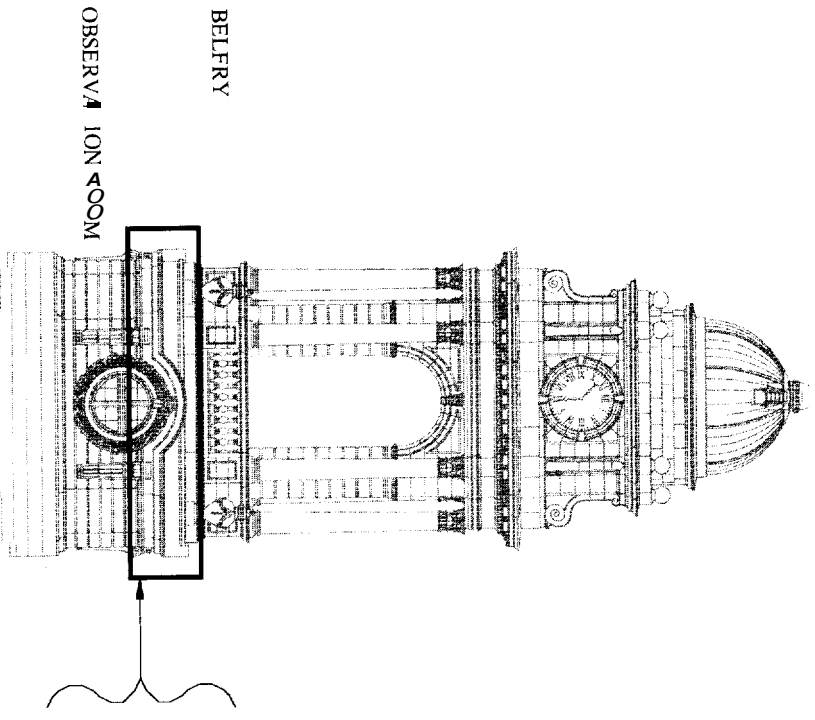
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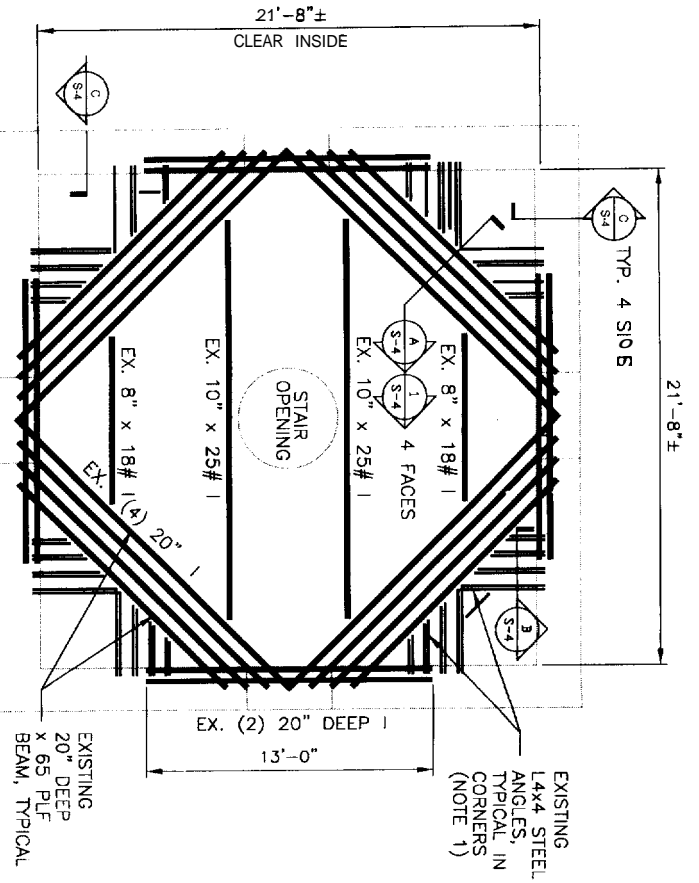
Date: 28 January 2006
Scale: As Shown
Revisions:

Title:
Clock Tower
Plans and Details
Belfry Columns

Sheet:
S-3

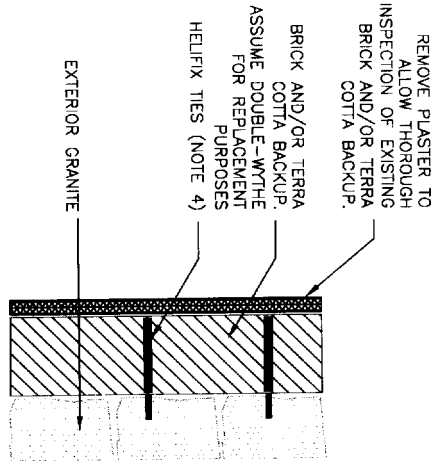


**CONGRESS STREET ELEVATION
KEY ELEVATION**
NOT TO SCALE



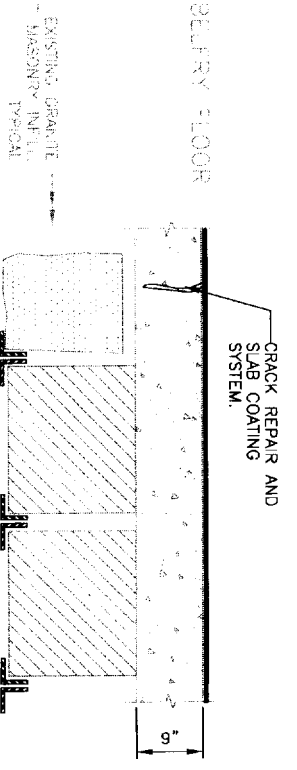
BELFRY FLOOR FRAMING PLAN
SCALE: 1/4" = 1'-0"

- NOTE:
1. ANTICIPATE REPLACEMENT OF APPROXIMATELY 50 PERCENT OF THE 4" x 4" STEEL ANGLES IN CORNERS.
 2. PROVIDE TEMPORARY SHORING AS REQUIRED DURING REPAIRS.
 3. CLEAN SLAB, EPOXY-INJECT SLAB CRACKS (ASSUME 60 L.F. OF 3/8"), AND COAT WITH SIKAFERRUGARD 903, SIKAGARD PENETRATING SEALER, AND COMPATIBLE TRAFFIC-BEARING TOPCOAT.



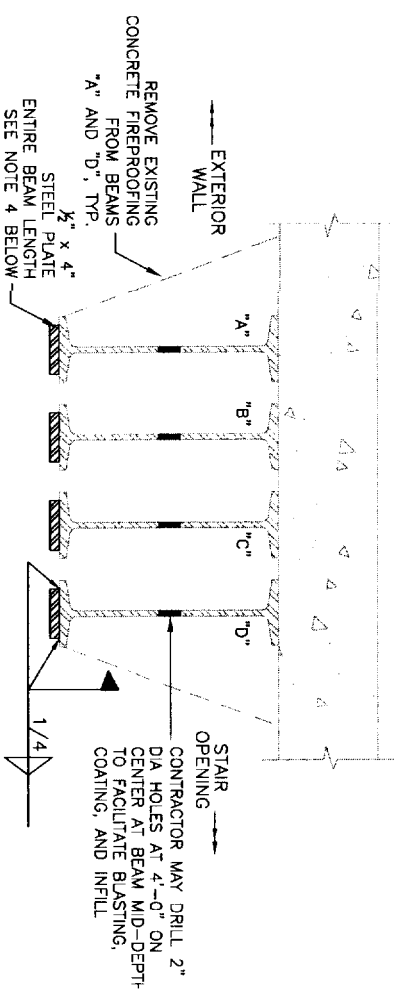
- NOTE:
1. REMOVE APPROXIMATELY 2000 SQUARE FEET OF PLASTER. REMOVE AND REPLACE APPROXIMATELY 2000 SQUARE FEET OF EXISTING BRICK/TERRA COTTA. REPLACE WITH 2-WYTHE BRICK PER ARCHITECTURAL SPECIFICATION.
 2. PROVIDE TEMPORARY SHORING AS REQUIRED DURING REPAIRS.
 3. NOTIFY ARCHITECT AND ENGINEER PRIOR TO BEGINNING PLASTER REMOVAL.
 4. BID PRICE TO INCLUDE INSTALLATION OF 500 HELIFIX TOWNSHIP 8mm x 300 mm TAPERED TIES WITH 3" EMBEDMENT INTO GRANITE. TIES TO BE INSTALLED FROM INTERIOR OF TOWER.

C SECTION INTERIOR WALL REMOVAL
SCALE: 1" = 1'-0"



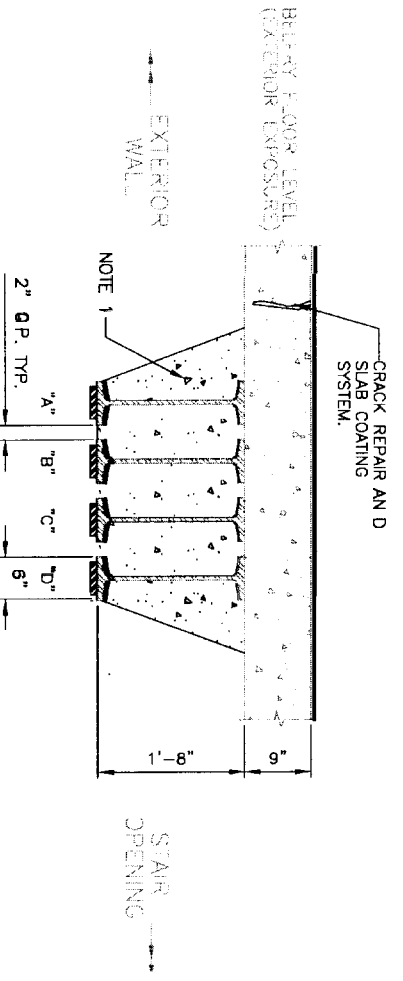
- NOTE:
1. PROCEED WITH STEEL ANGLE REPLACEMENT ONE FACE AT A TIME.
 2. LENGTH OF STEEL ANGLES VARIES.
 3. PROVIDE ANGLE BEARING LENGTH ON BEAM AND TERRA COTTA EQUIVALENT TO THAT OF EXISTING ANGLES.
 4. FIELD COAT ENTIRE LENGTH OF ANGLES WITH SYSTEM DESCRIBED IN DETAIL A PRIOR TO INSTALLING.
 5. PROVIDE TEMPORARY SHORING AS REQUIRED DURING REPAIRS.

B SECTION STEEL ANGLE REPLACEMENT
SCALE: 1" = 1'-0"



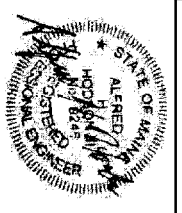
1 DETAIL STEEL GIRDER COVERPLATING
SCALE: 1 1/2" = 1'-0"

1. REFER TO SECTION A. THIS SHEET FOR DIMENSIONS NOT SHOWN.
2. SCRAPE AND SANDBLAST ALL SIDES OF EXISTING BEAMS TO SSPC-SP6.
3. NOTIFY ENGINEER TO REVIEW AND MEASURE EXISTING BEAMS TO DETERMINE APPROPRIATE COVERPLATING REQUIREMENTS.
4. AFTER G.C. PROVIDES TESTING TO VERIFY WELDING COMPATIBILITY WITH EXISTING STEEL, COVERPLATE EXISTING STEEL BEAMS PER ENGINEER'S REQUIREMENTS USING STEEL PLATE DETAIL SCHEMATICALLY DESCRIBED ABOVE.



- REMOVE EXISTING CONCRETE FIREPROOFING FROM BEAMS SIDES
- OUTER BEAMS:
1. SCRAPE AND SANDBLAST ALL SIDES OF EXISTING BEAMS TO SSPC-SP6 REQUIREMENTS. NOTIFY ENGINEER TO REVIEW AND MEASURE EXISTING BEAMS TO VERIFY APPROPRIATE COVERPLATING REQUIREMENTS. COVERPLATE EXISTING STEEL BEAMS PER DETAIL 1, THIS SHEET.
 2. APPLY TNE-MEC COATING SYSTEM AS FOLLOWS:
PRIMER: SERIES 90-97 TNE-ME-ZINC (2.9-3.5 mils)
INTERMEDIATE: SERIES 66 HI-BUILD EPOXOLINE (2.0-3.0 mils)
TOPCOAT: SERIES 73-ENDURA SHIELD
EQUIVALENT SYSTEMS MAY BE USED IF APPROVED BY THE ENGINEER.
 3. INFILL BETWEEN AND AROUND GIRDER SIDES WITH 4000 PSI CONCRETE REINFORCED WITH 1/2" CARBON FIBERS AT 2# PER CUBIC YARD. MATCH EXISTING PROFILE OF CONCRETE ON EXTERIOR GIRDER FACES.
 4. AFTER COVERPLATING AND CONCRETE WORK IS COMPLETE, COAT VISIBLE PORTIONS OF STEEL FLANGES AND COVERPLATES WITH AN ADDITIONAL COAT OF SERIED 73 ENDURA-SHIELD.

A SECTION SUPPLEMENTAL CORROSION PROTECTION INSTALLATION
SCALE: 1" = 1'-0"



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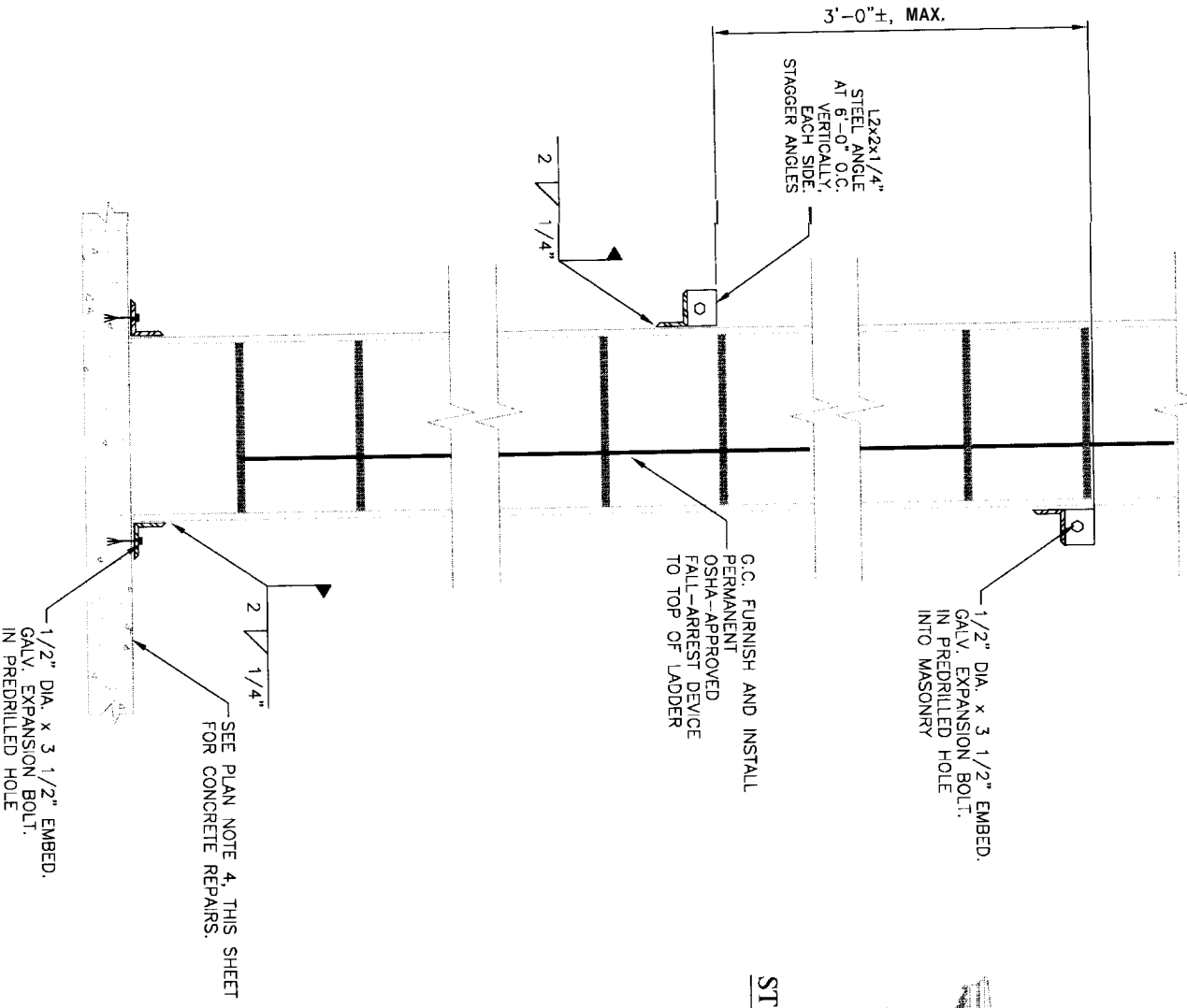
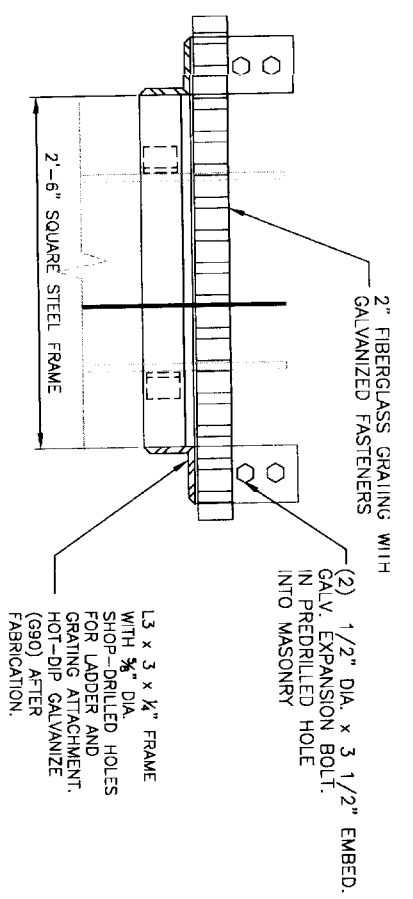
**Clock Tower Restoration
Portland City Hall**
389 Congress Street
Portland, Maine

Title: Clock Tower Plans and Details
Belfry and Observation Room

Scale: As Shown

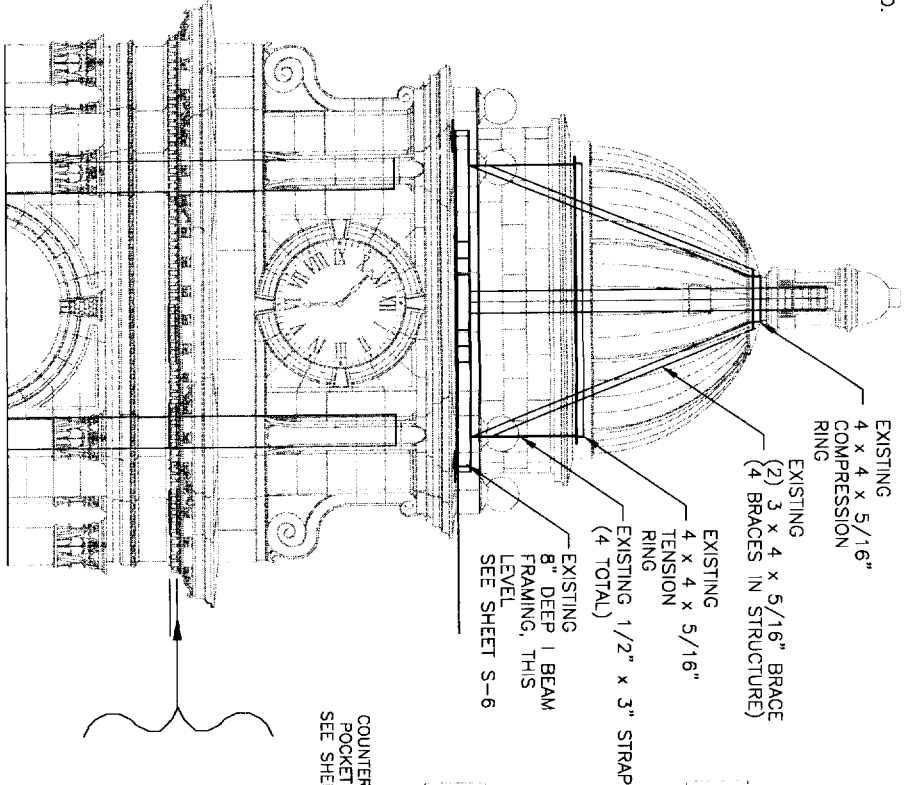
Date: 28 January 2006

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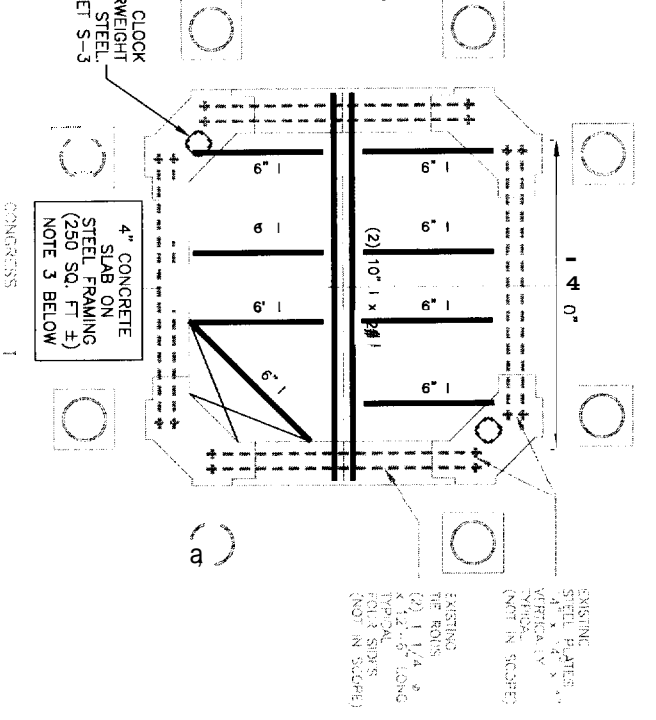
DOME ACCESS LADDER REPAIR DETAIL

SCALE: NOT TO SCALE



STRUCTURAL STEEL INSIDE CLOCK ROOM

SCALE: 1/4" = 1'-0"



CLOCK ROOM FLOOR FRAMING PLAN

NOTES:

1. SCRAPE AND SANDBLAST ALL SIDES OF EXISTING BEAMS TO SSPC-SP6 REQUIREMENTS. NOTIFY ENGINEER TO REVIEW AND MEASURE EXISTING BEAMS.
2. APPLY TNEVEC COATING SYSTEM AS FOLLOWS:
PRIMER: SERIES 90-97 TNEVEC-ZINC (2.5-3.5 mils)
INTERMEDIATE: SERIES 66 HI-BUILD EPOXOLINE (2.0-3.0 mils)
TOPCOAT: SERIES 73-ENDURA SHIELD
EQUIVALENT SYSTEMS MAY BE USED IF APPROVED BY THE ENGINEER.
3. REFER TO SHEET S-6 FOR STAINLESS STEEL SEAL AT COURSES BC AND BD.
4. CLEAN SLAB, EPOXY-INJECT SLAB CRACKS (40 L.F. OF B) AND COAT WITH SIKAFERRORGARD 903, SIKAGARD PENETRATING SEALER, AND COMPATIBLE TRAFFIC-BEARING TOPCOAT.
5. REFER TO ARCHITECTURAL DRAWINGS FOR BRICK REMOVAL AND REPLACEMENT INSIDE OF CLOCK ROOM.

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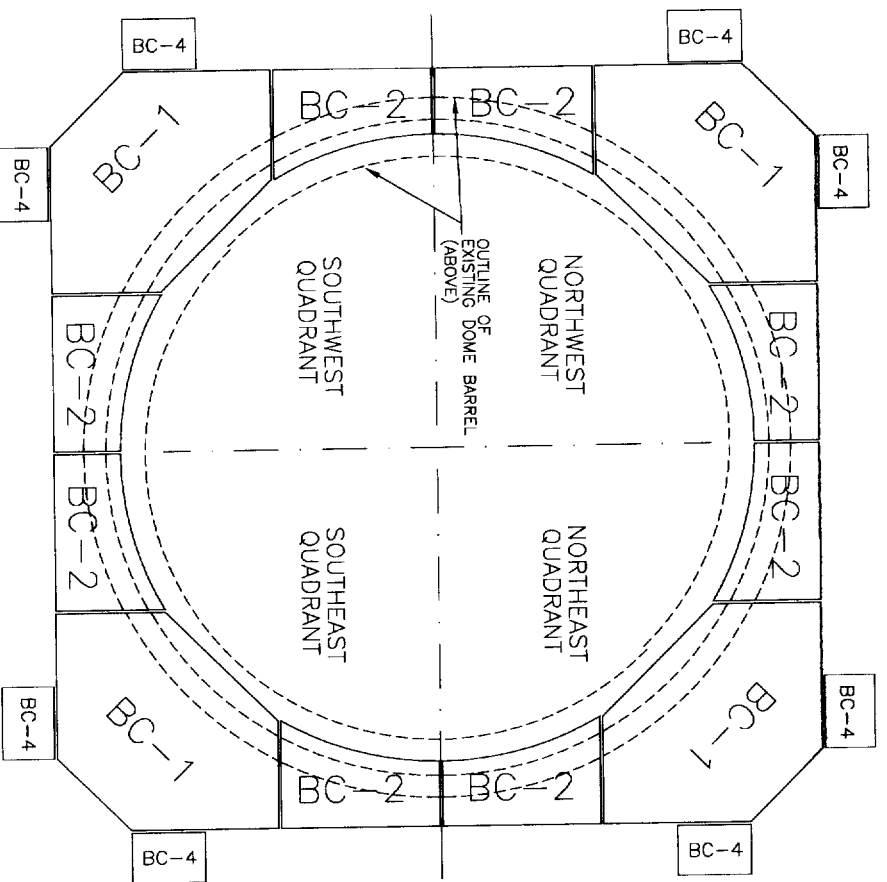
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69 EXCHANGE STREET
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322 BANCROFT STREET
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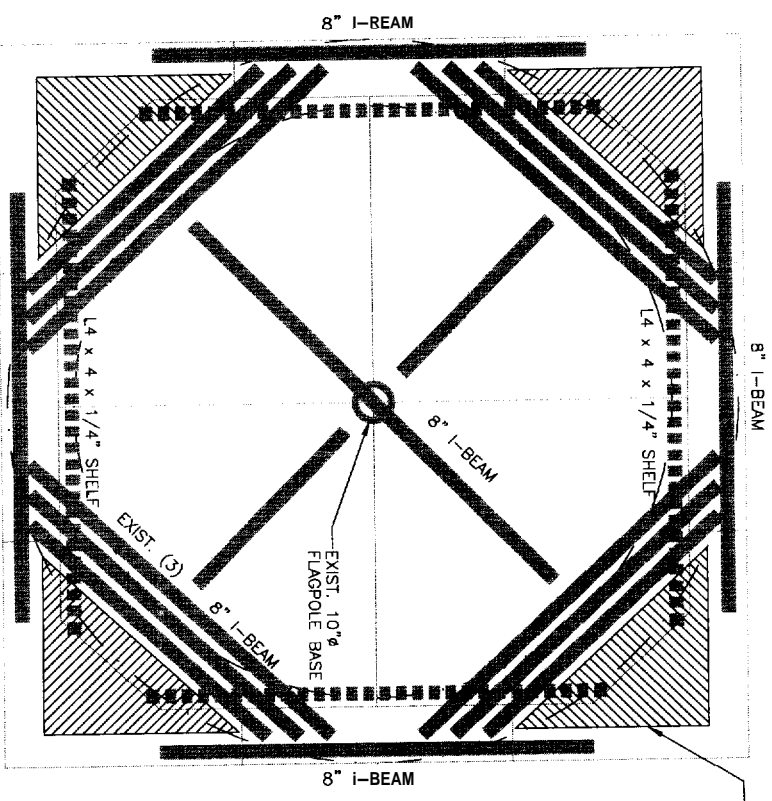
Date: 28 January 2006
Scale: As Shown
Revisions:

Title:
Clock Tower
Plans and Details
Clock Room

Sheet:
S-5



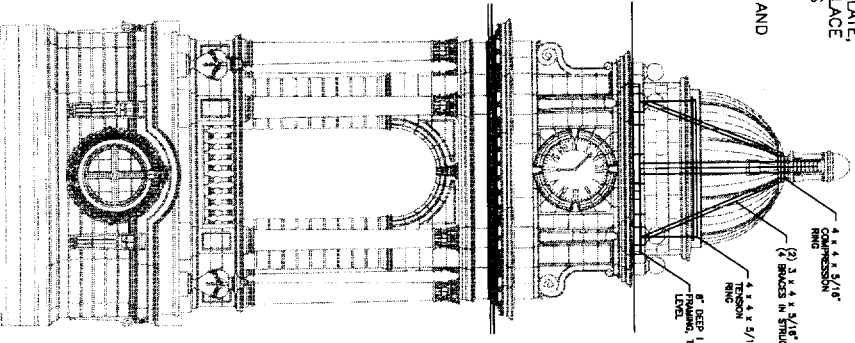
STONE LAYOUT -- PLAN AT COURSE BC
SCALE: 1/4" = 1'-0"
(COURSE BD BOLLARDS NOT SHOWN FOR CLARITY)



SOUTH ELEVATION
DOME AND BARREL SUPPORT FRAMING PLAN AT COURSE BC

NOTE: CLEAN ALL STEEL PER SSPC-SP3 AND COAT WITH NOXIDE PRIMER AND TOPCOAT.

EXISTING 3'-6" x 3'-6" TRIANGULAR STEEL PLATE, TYPICAL OF 4, REPLACE IN KIND WITH PLATES COATED WITH STEEL PAINTING SYSTEM DESCRIBED ON S-4 AND S-5.

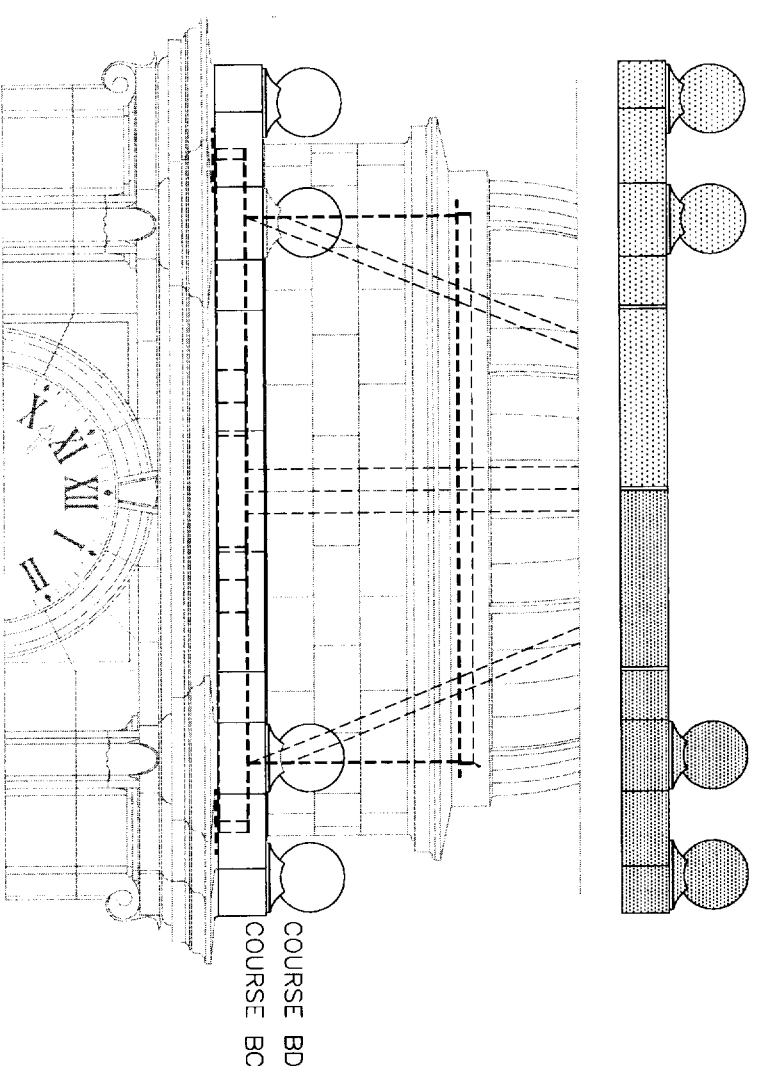


KEY ELEVATION
NOT TO SCALE

STONE	QUANTITY	AREA (SQ. FT.)	HEIGHT (FEET)	ESTIMATED WEIGHT (POUNDS)
 PLAN ELEVATION STONE BC-2	8	7.12	1'-1 1/2"	1 360
 PLAN ELEVATION STONE BC-4	8	1.95	1'-1 1/2"	373
 PLAN ELEVATION STONE BC-1	4	20.42	1'-1 1/2"	3 800
 PLAN ELEVATION STONE BD-21	8	10" radius	1'-1 1/2"	500

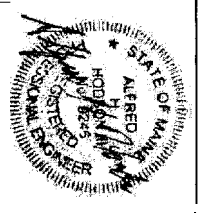
COURSE BC AND BD STONE REMOVAL SCHEDULE
SCALE: 3/8" = 1'-0"

NOTE:
1. ENGINEER MUST BE PRESENT FOR ALL STONE REMOVAL AT COURSE BC.
2. NOTIFY ARCHITECT AND ENGINEER AT LEAST 10 BUSINESS DAYS BEFORE STONE REMOVAL AT THIS AREA BEGINS.
3. IT IS SUGGESTED THAT STONE REMOVAL OCCUR INCREMENTALLY TO ENSURE STABILITY OF THE DOME. SUBMIT PLAN FOR STONE REMOVAL AT THIS LEVEL FOR ENGINEER TO REVIEW AT LEAST 10 BUSINESS DAYS BEFORE BEGINNING WORK.



STONE LAYOUT -- ELEVATION
SCALE: 1/4" = 1'-0"

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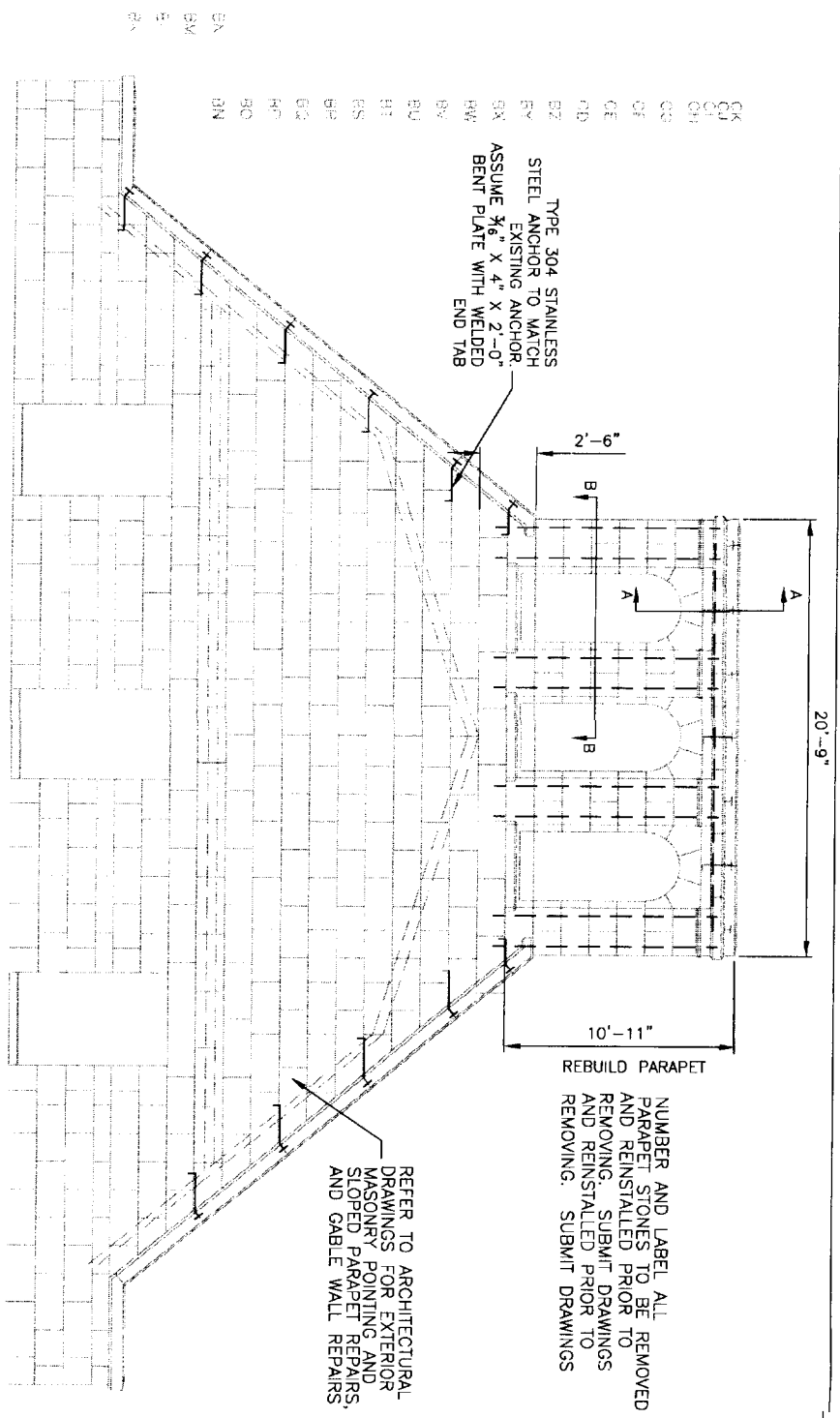


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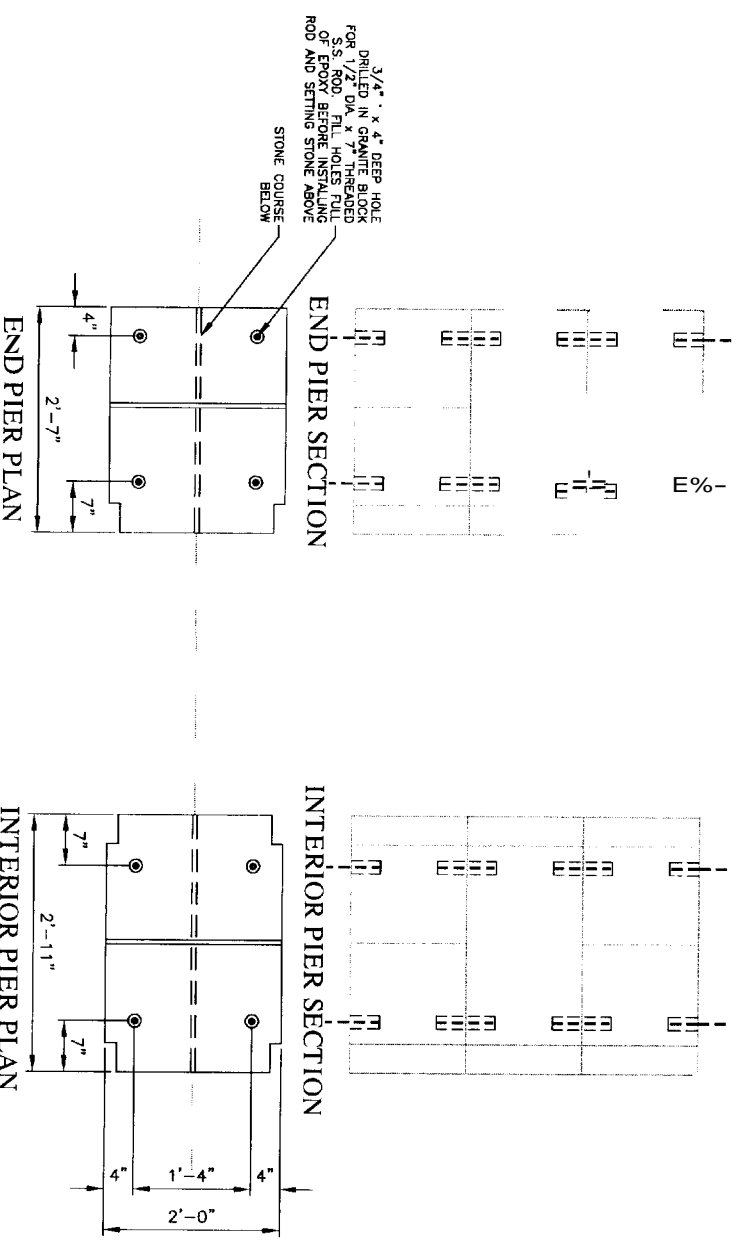
Title:
Clock Tower
Plans and Details
Dome Base

Sheet:
S-6



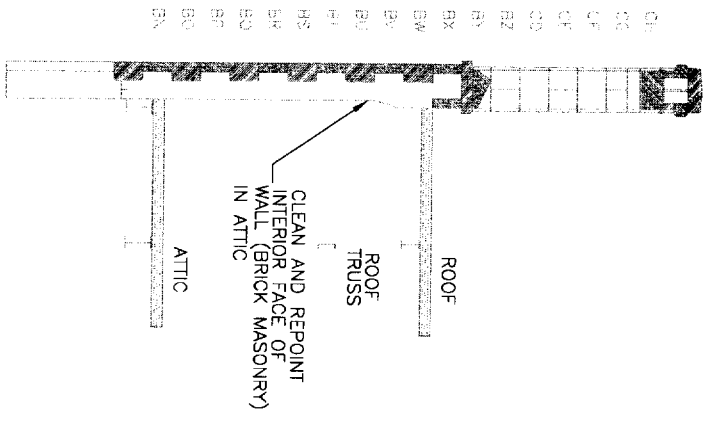
PARAPET ELEVATION -- TYPICAL EACH PARAPET

SCALE: 1/4" = 1'-0"



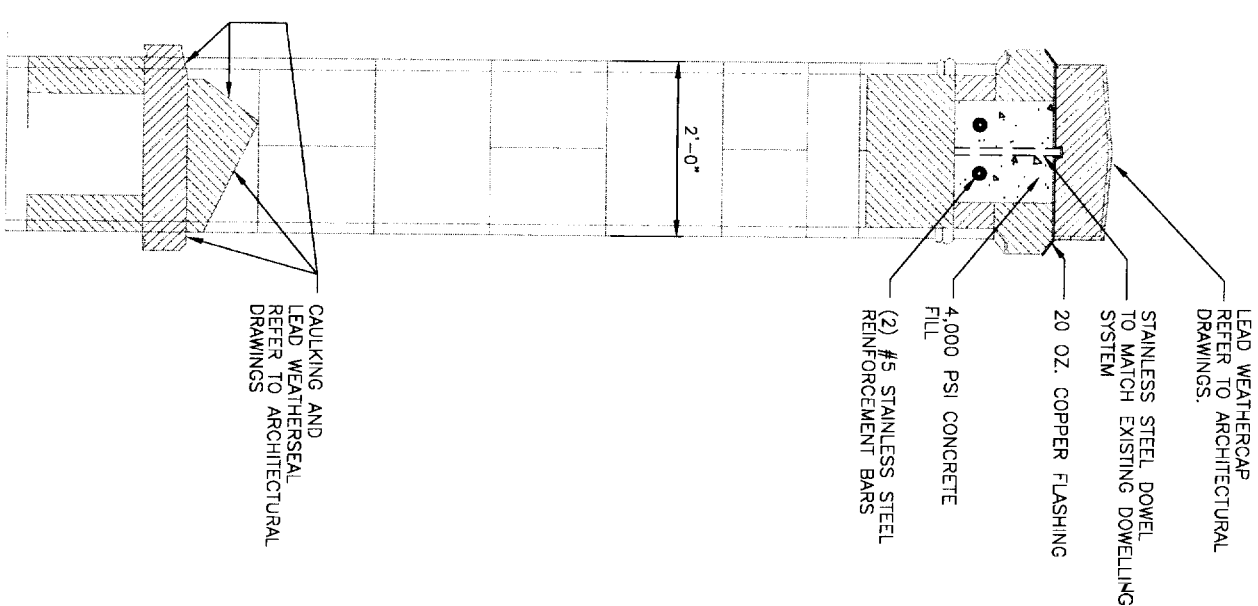
B-B PARAPET COLUMN DETAILS

SCALE: 1" = 1'-0"



PARAPET SECTION

SCALE: 1/4" = 1'-0"



A-A SECTION -- ELEVATION

SCALE: 1" = 1'-0"

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Date: 28 January 2006
 Scale: As Shown
 Revisions:

Title:
 Parapet Detail Alternate
 Elevations, Sections,
 and Details

Sheet:
S-7