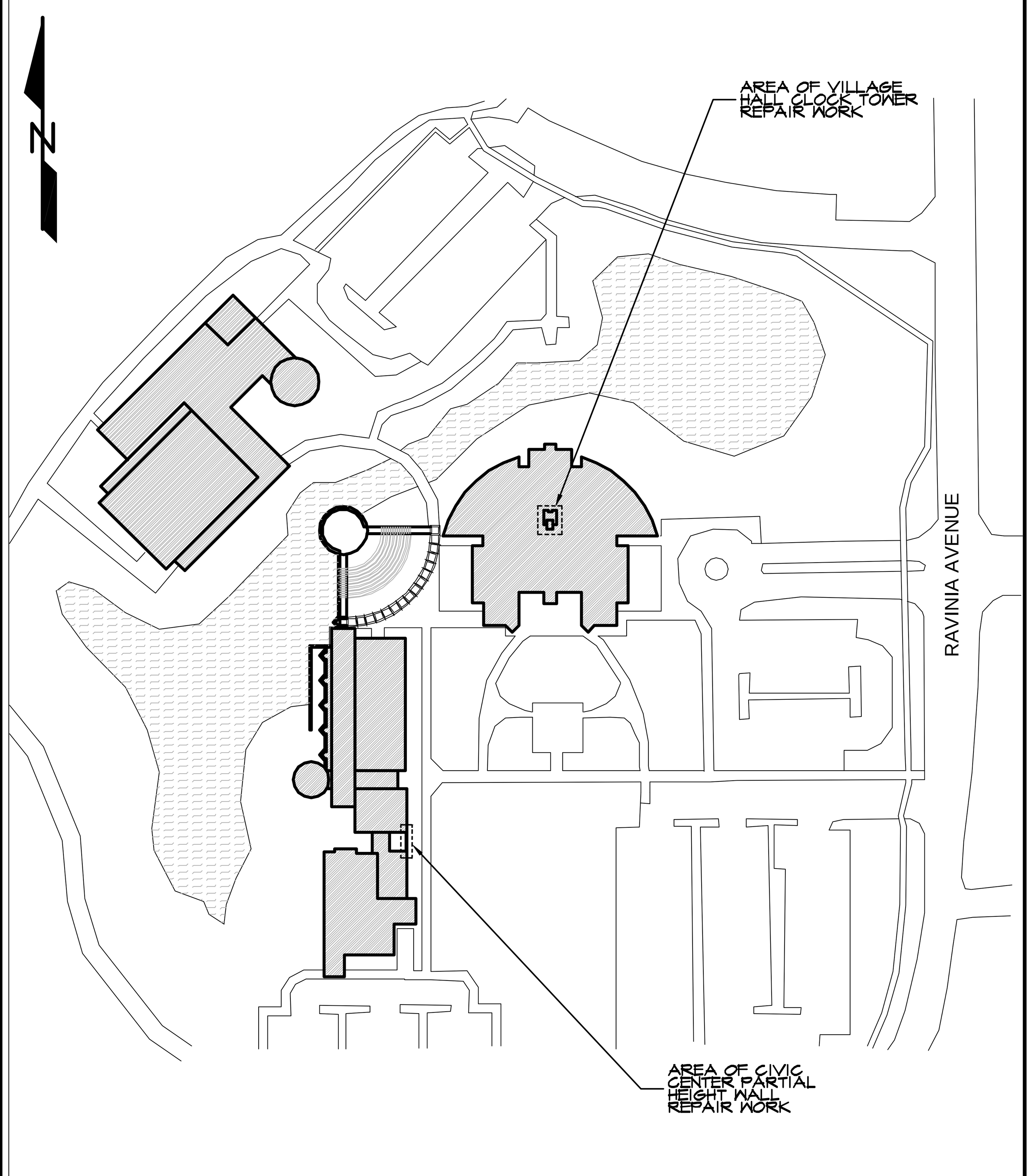
Exhibit C

Plans and Specifications

KEY PLAN



VILLAGE HALL CLOCK TOWER MASONRY REPAIRS

VILLAGE OF ORLAND PARK

14700 RAVINIA AVENUE ORLAND PARK, IL 60462

ISSUE FOR BIDDING & PERMIT
DATE: APRIL 13, 2011

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ROBERT L. JURIS
001-010993
LICENSED ARCHITECT
EXPIRES 11-30-2012
SIGNATURE

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VICINITY MAP

CODE INFORMATION

PROJECT:
Orland Park Village Center
Phase 2 - Masonry Repairs Project
Village Hall - Clock Tower
14700 S. Ravinia Avenue
Orland Park, Illinois
Architect's Project # 10059

1. BUILDING AUTHORITY: Village of Orland Park, Illinois

2. GOVERNING CODES AND ORDINANCES:

Building Code: 2006 IBC Building Code with Village Amendments, Village Code, Title 5, Chapter 1

Mechanical Code: 2006 International Mechanical Code with Village Amendments, Village Code, Title 5, Chapter 6

Plumbing Code: 2004 State of Illinois Plumbing Code with Village Amendments, Village Code, Title 5, Chapter 4

Electrical Code: 2005 National Electrical Code with Village Amendments, Village Code, Title 5, Chapter 3

Fire Prevention Code: 2006 International Fire Code with Village Amendments, Village Code, Title 5, Chapter 5

Illinois Accessibility Code, effective April 27, 1997

3. The permit applicant/builder shall provide special inspections by a qualified inspection service agency for the installation and connection of all structural steel. In addition to this requirement, complete shop drawings for structural steel construction shall be submitted which clearly distinguish between shop and field rivets, bolts, and welds in all connection details. (refer to struct. specifications for additional information.

4. The permit applicant/builder shall provide a statement indicating a list of materials and work to be inspected and the agency(s) conducting the inspections.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AC	ACOUSTICAL
ACT	ACOUSTICAL TILE
ADJ	ADJUSTABLE
ALUM	ALUMINUM
BLDG	BUILDING
BLKG	BLOCKING
BOT	BOTTOM
BSMT	BASEMENT
CER	CERAMIC
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CONC	CONCRETE
CPT	CARPET
CSD	CASED
CT	CERAMIC TILE
CMU	CONCRETE MASONRY UNIT
DBL	DOUBLE
DET	DETAIL
DH	DOUBLE HUNG
DIA	DIAMETER
EA	EACH
ELEC	ELECTRIC
ELEV	ELEVATION
EX	EXISTING
EXIST	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
FC	FIRE CODE
FD	FLOOR DRAIN
FIN	FINISH/FINISHED
FJ	FLOOR JOIST
FLUOR	FLUORESCENT
FTG	FOOTING
FWC	FABRIC WALL COVERING
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GL	GLASS
GYP BD	GYPSUM BOARD
HC	HOLLOW CORE
HDR	HEADER
HDW	HARDWARE
HM	HOLLOW METAL
HT	HEIGHT
ID	INSIDE DIAMETER
INSUL	INSULATION
JST	JOIST
LVL	LAMINATED VENEER LUMBER
MAX	MAXIMUM
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
MULL	MULLION
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
PT	PAINT
PNT	PAINT
RAD	RADIUS
RB	RESILIENT BASE
REV	REVISED/REVISION
RO	ROUGH OPENING
SC	SOLID CORE
SCH	SCHEDULE
SIM	SIMILAR
STL	STEEL
STRUCT	STRUCTURAL
T&G	TONGUE AND GROOVE
TRANS	TRANSPARENT
TYP	TYPICAL
UNEX	UNEXCAVATED
UNO	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITION TILE
VIF	VERIFY IN FIELD
VWC	VINYL WALL COVERING
WD	WOOD
WH	WATER HEATER

SYMBOLS/MATERIAL LEGEND

SECTION / DETAIL NOTATION
1 / A-1 — DETAIL NUMBER; DRAWING NUMBER (ON WHICH DETAIL APPEARS)

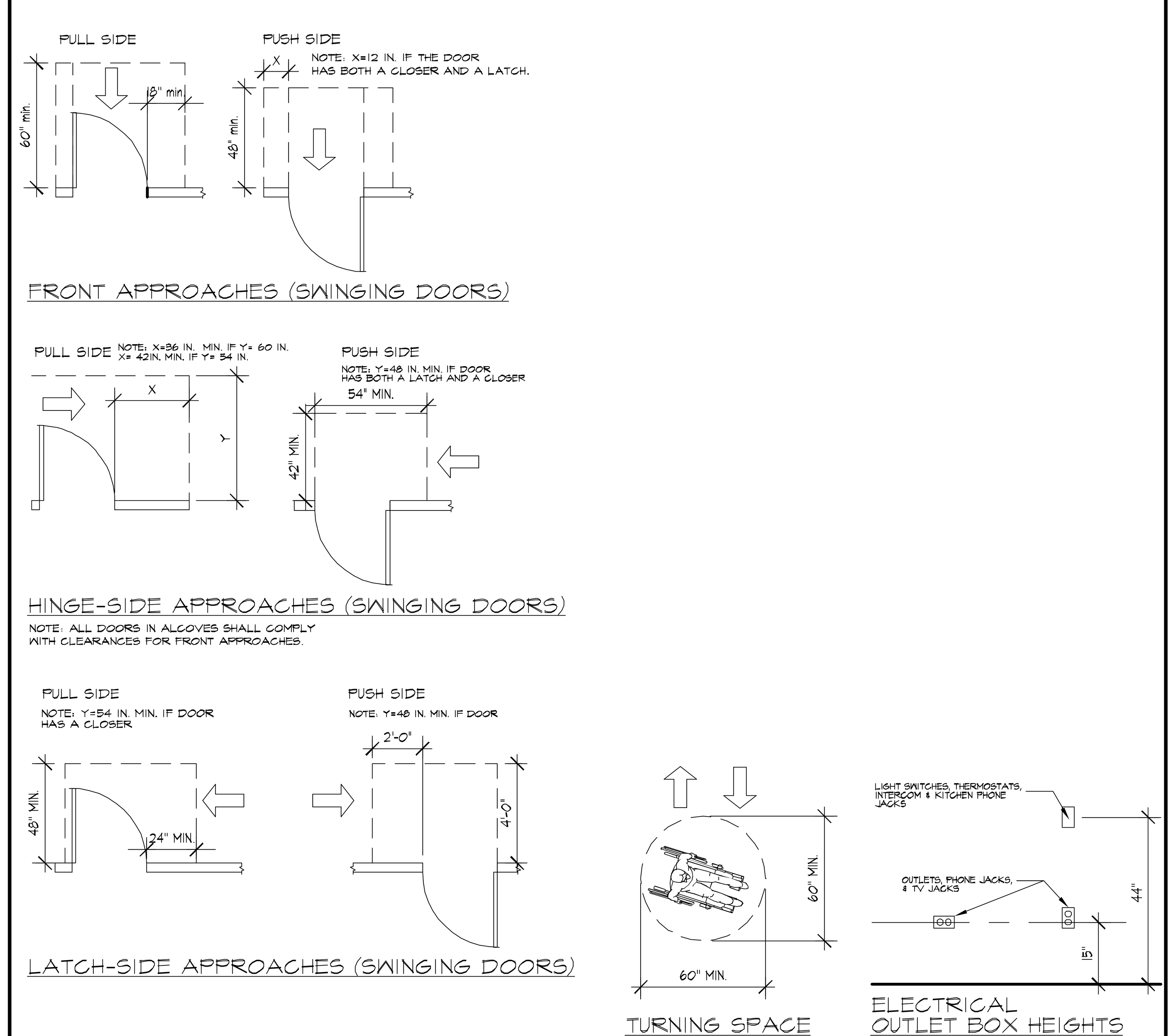
REVISION SYMBOL
1 — REVISION NUMBER

ROOM NUMBER: 101
DOOR NUMBER: 101A

ELEVATION SYMBOL
INTERIOR: 1A — ELEVATION NUMBER; A-6 — SHEET NUMBER WHERE ELEVATION IS DRAWN
EXTERIOR: 1 — ELEVATION LETTER; A-1 — SHEET NUMBER WHERE ELEVATION IS DRAWN

ELEVATION MARKER
TOP OF FOUNDATION ELEVATION 0'-0"

ACCESSIBILITY CLEARANCE



INDEX TO DRAWING

THE SPECIFIC DRAWINGS INCLUDED IN THIS SET, THAT THE AFFIXED ARCHITECT'S SEAL APPLIES TO, ARE LIMITED TO THOSE SHOWN BELOW WITH AN ASTERISK (*)

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No.	Issues & Revisions	Date
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Project

VILLAGE HALL CLOCK TOWER MASONRY REPAIRS

VILLAGE OF ORLAND PARK

14700 RAVINIA AVENUE
ORLAND PARK, IL 60462

Drawing Title 10059_BASE.DWG

COVER SHEET

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0 1" 2" 3"

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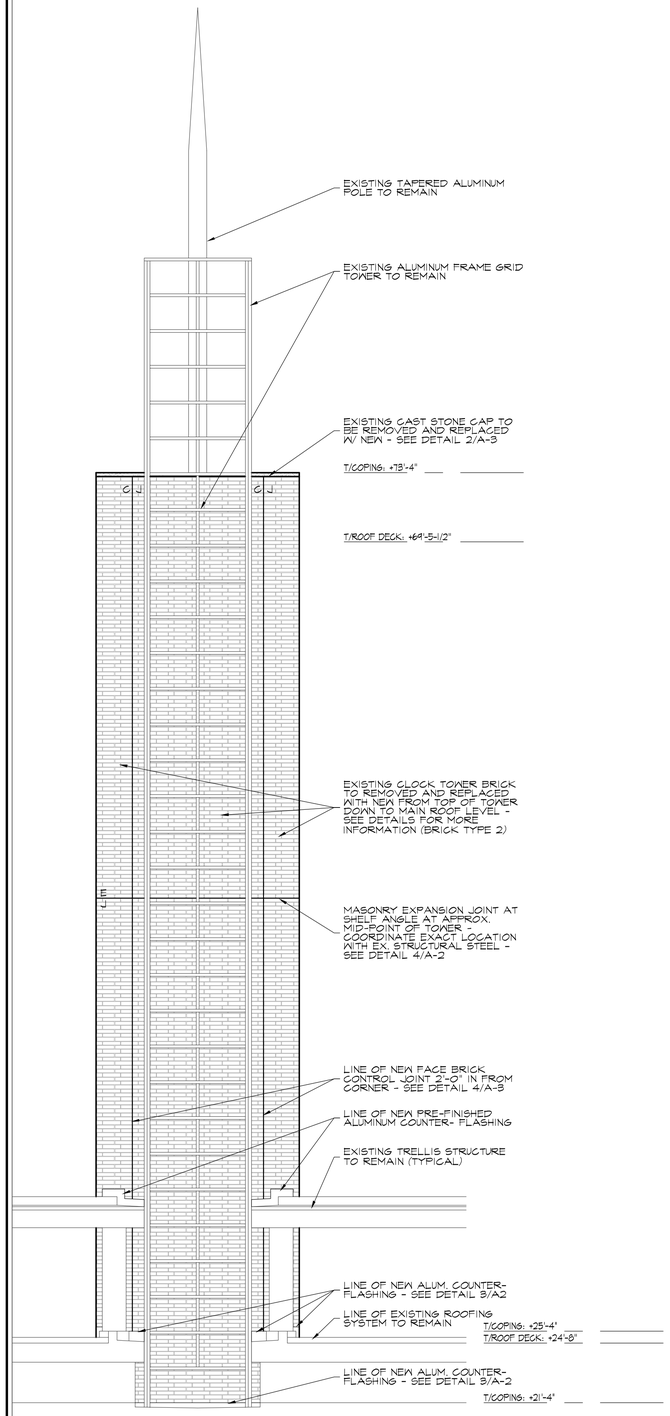
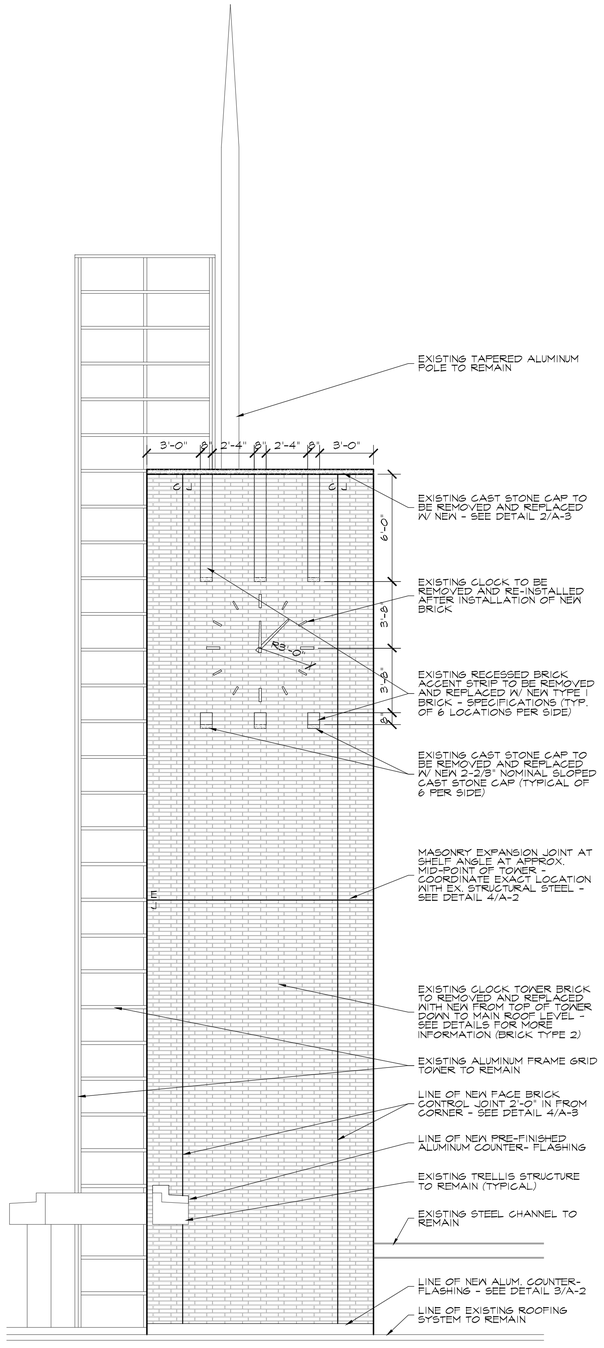
Drawn By	
Drawn By	BAL
Checked By	RLJ

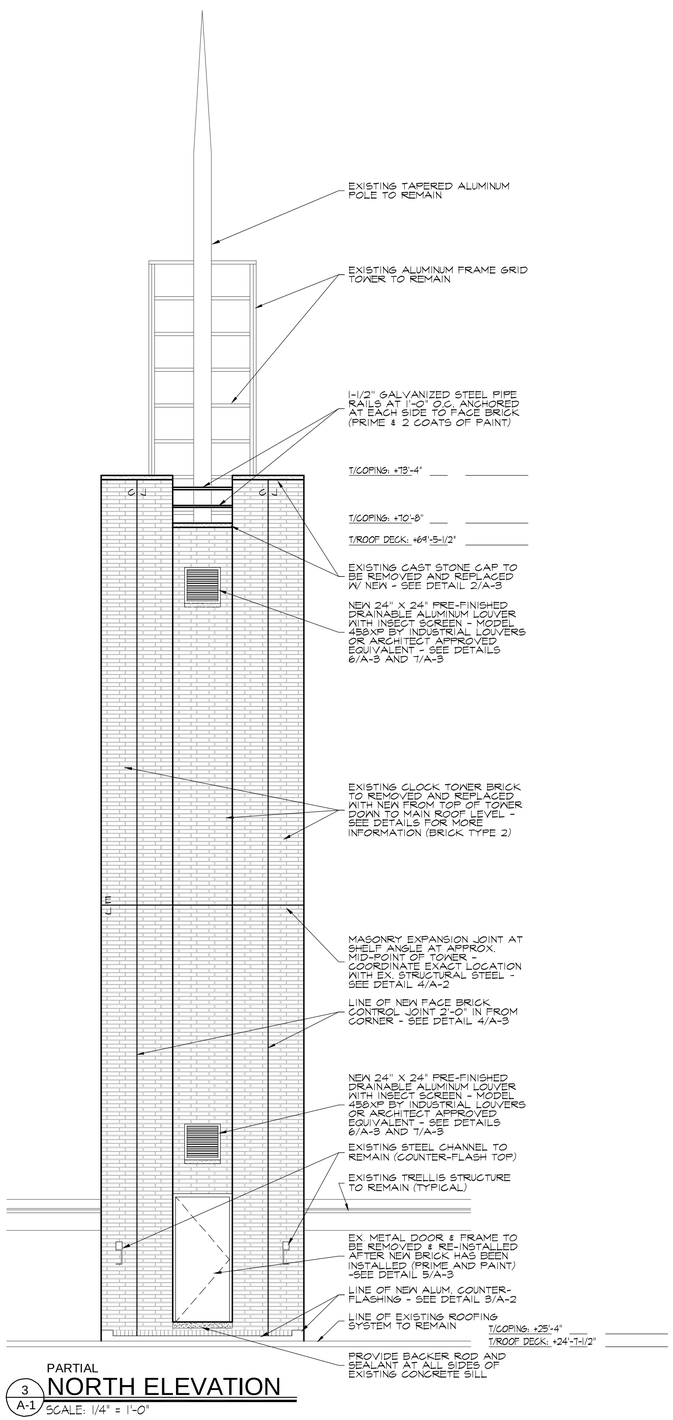
Drawing
CS
of ONE



PARTIAL
1 / A-1 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



PARTIAL
2 / A-1 EAST ELEVATION
SCALE: 1/4" = 1'-0"



PARTIAL
3 / A-1 NORTH ELEVATION
SCALE: 1/4" = 1'-0"

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GENERAL NOTES:

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2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL REQUIREMENTS AS EXPRESSED IN THE AIA GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, AIA DOCUMENT A201, CURRENT EDITION, WHICH FORMS A PART OF THE CONTRACT DOCUMENTS.

3. ALL WORK SHALL CONFORM TO THE SPECIFICATIONS AND QUALITY STANDARDS AS EXPRESSED IN THE DRAWINGS WHICH FORM A PART OF THE CONTRACT DOCUMENTS.

4. THE CONTRACTORS SHALL VERIFY AT THE JOB SITE, ALL DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS, AND SHALL NOTIFY THE ARCHITECT AND OWNER OF ANY DISCREPANCIES, OMISSIONS AND/OR CONFLICTS BEFORE PROCEEDING WITH THE WORK.

5. THE CONTRACTORS SHALL NOT SCALE DRAWINGS; DIMENSIONS GOVERN; LARGE-SCALE DRAWINGS GOVERN OVER SMALL-SCALE DRAWINGS.

6. START OF WORK BY THE CONTRACTORS SHALL SIGNIFY THE ACCEPTANCE OF THE SITE CONDITIONS.

7. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TO FACE OF FINISH MATERIAL.

8. ALL DEBRIS AND WASTE MATERIALS AND EQUIPMENT SHALL BE TRANSPORTED OFF OF THE PREMISES AND LEGALLY DISPOSED OF.

No.	Issues & Revisions	Date
1	ISSUE FOR PERMIT & BIDDING	04/13/2011

Project

VILLAGE HALL CLOCK TOWER MASONRY REPAIRS

VILLAGE OF ORLAND PARK

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CLOCK TOWER ELEVATIONS

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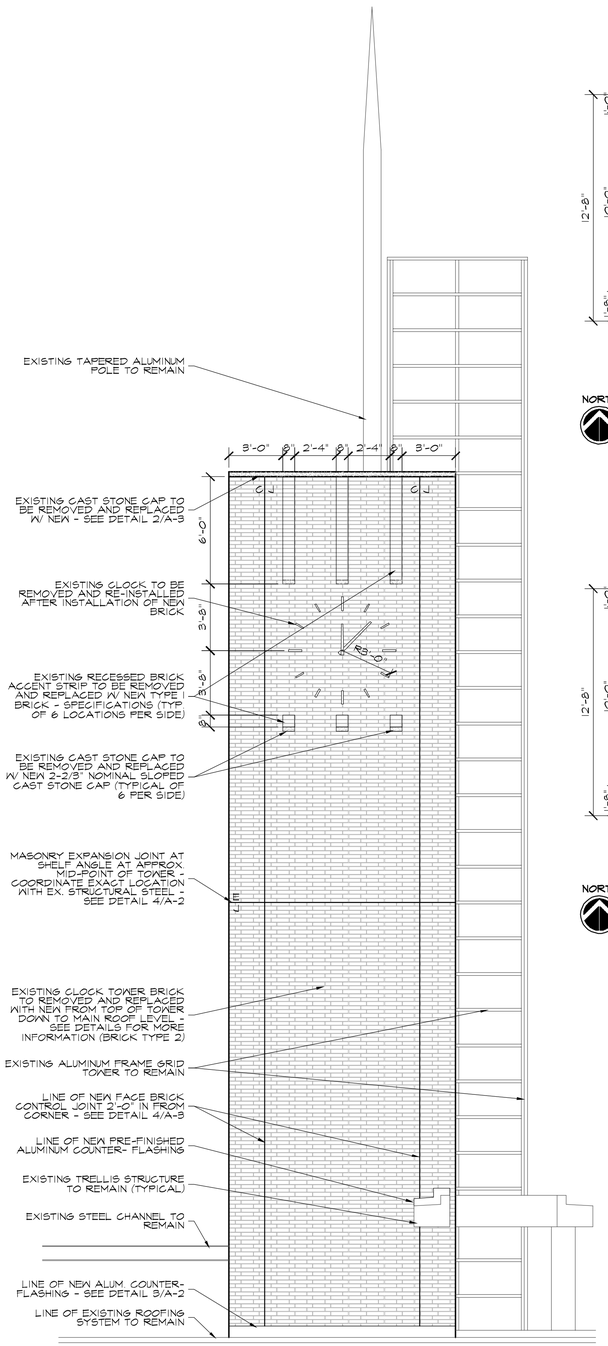
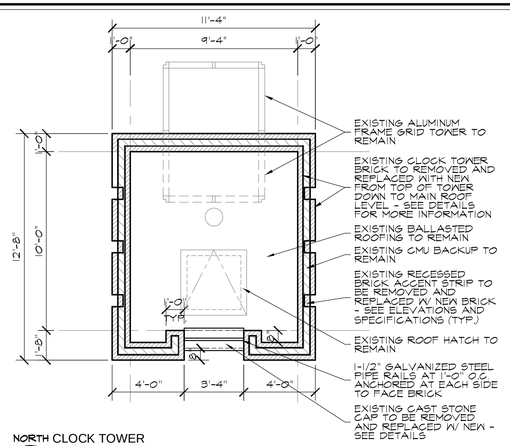
Drawn By	BAL
Checked By	RLJ

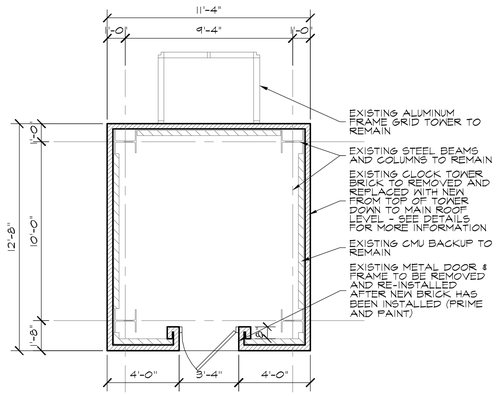
Drawing A-1 of FOUR



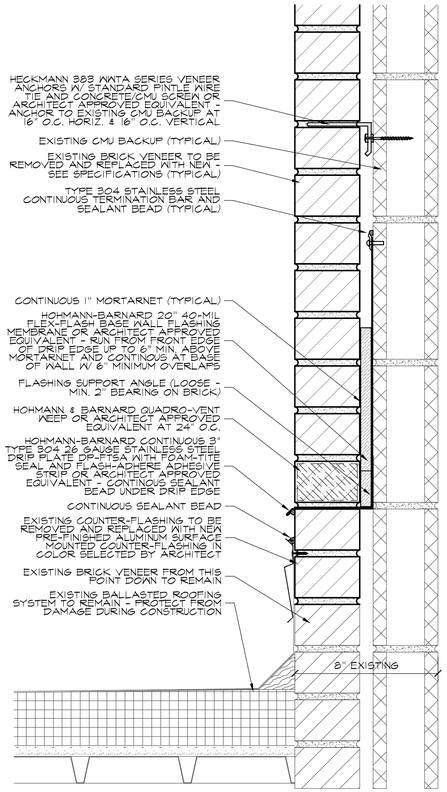
PARTIAL
1 / A-2 WEST ELEVATION
SCALE: 1/4" = 1'-0"



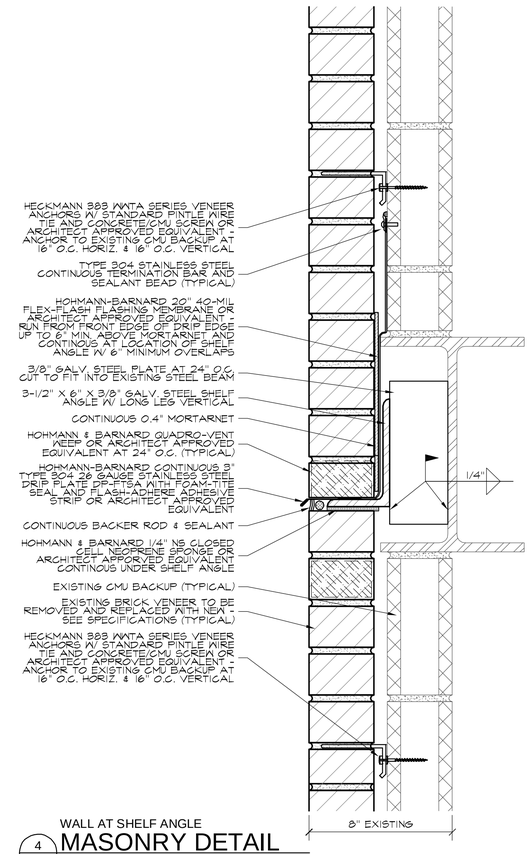
NORTH CLOCK TOWER
REMODELED ROOF PLAN
SCALE: 1/4" = 1'-0"



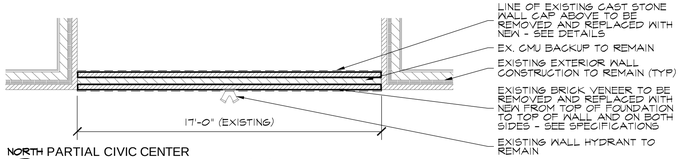
NORTH CLOCK TOWER
REMODELED FLOOR PLAN
SCALE: 1/4" = 1'-0"



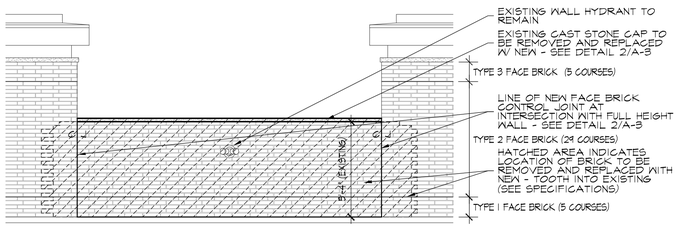
BASE OF WALL AT ROOF
3 / A-2 MASONRY DETAIL
SCALE: 3" = 1'-0"



WALL AT SHELF ANGLE
4 / A-2 MASONRY DETAIL
SCALE: 3" = 1'-0"



NORTH PARTIAL CIVIC CENTER
REMODELED FLOOR PLAN
SCALE: 1/4" = 1'-0"



PARTIAL
2 / A-2 EAST ELEVATION
SCALE: 1/4" = 1'-0"

PRODUCT NOTES:
1. IN ADDITION TO THE MASONRY PRODUCTS SPECIFIED IN THE DETAILS, THESE MANUFACTURERS WILL ALSO BE ACCEPTED:
   A. HOHMANN & BARNARD
   B. WIRE-BOND
   C. HECKMANN BUILDING PRODUCTS
   D. W.R. MEADOWS

ALTERNATE BID ITEMS:
PLEASE PROVIDE AN ALTERNATE BID PRICE FOR THE FOLLOWING ITEMS AS PART OF YOUR BASE BID SUBMITTAL FOR THIS PROJECT.

ITEM 1:
AFTER REMOVAL OF FACE BRICK COAT OUTSIDE FACE OF ALL CMU BACKUP (AIR SPACE SIDE) PRIOR TO INSTALLATION OF NEW FACE BRICK FOR CLOCK TOWER WITH AN ALKALI RESISTANT, FIBERGLASS REINFORCED, PORTLAND CEMENT BASED SURFACE BONDING CEMENT IN STANDARD GRAY COLOR - INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

ITEM 2:
REMOVE ALL OIL, DUST, GREASE, DIRT, LOOSE RUST, AND OTHER FOREIGN MATERIAL ON EXPOSED STRUCTURAL STEEL COLUMNS, BEAMS, AND BRACING INSIDE EXISTING CLOCK TOWER AND ON THOSE AREAS OF STEEL EXPOSED WHEN EXISTING FACE BRICK IS REMOVED, AND PRIOR TO INSTALLATION OF NEW FACE BRICK. REMOVAL SHALL BE PERFORMED PER SSPC-SP 6/NACE NO. 3, COMMERCIAL BLAST CLEANING OR SSPC-SP 3, POWER TOOL CLEANING. REMOVE ALL OIL AND GREASE FROM SURFACE BY SOLVENT CLEANING PER SSPC-SP1, AND APPLY PRIMER TO STEEL WITHIN 8 HOURS. COAT STEEL WITH ONE PRIMER COAT AND 2 TOP COATS PER MANUFACTURER'S RECOMMENDED THICKNESS AND INSTALLATION GUIDELINES. ACCEPTABLE PRIMER AND TOP COAT PRODUCTS ARE AS FOLLOWS, OR ARCHITECT APPROVED EQUIVALENT FROM BENJAMIN MOORE OR PPG INDUSTRIES:
   PRIMER COAT: SHERWIN WILLIAMS KEM KROMIK UNIVERSAL METAL PRIMER B50AZ6
   TOP COATS: SHERWIN WILLIAMS A-100 EXTERIOR LATEX GLOSS A0BN00116

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Drawing Title 10059_BASE.DWG

ELEVATIONS, PLANS AND DETAILS

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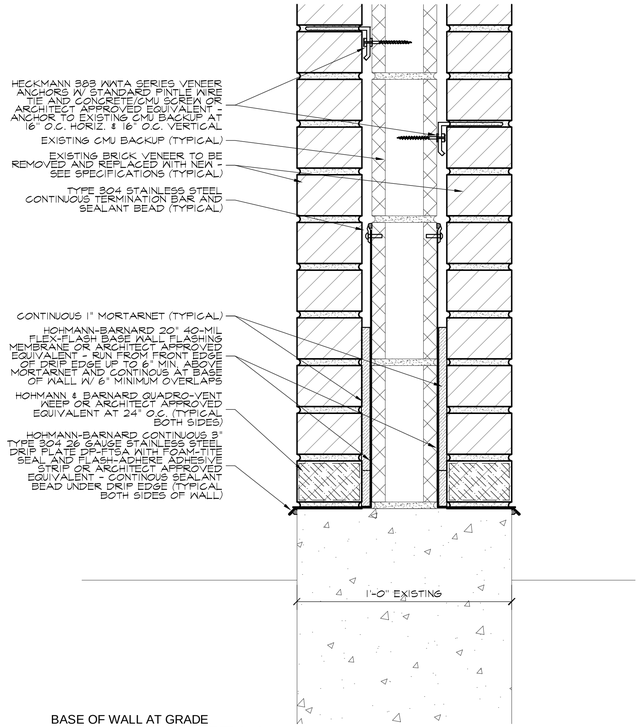
Drawn By	BAL
Checked By	RLJ

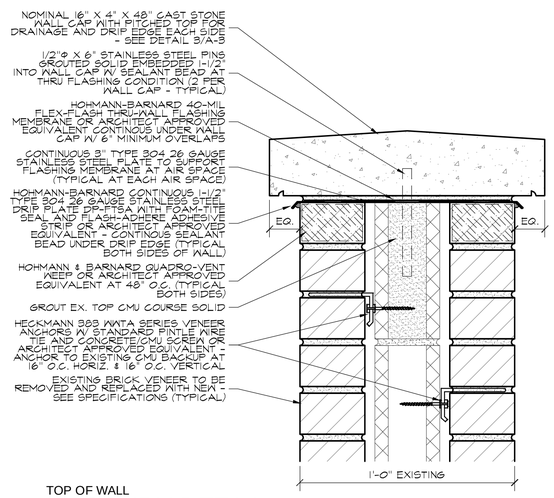
Drawing A-2 of FOUR



BASE OF WALL AT GRADE

1 A-3 **MASONRY DETAIL**

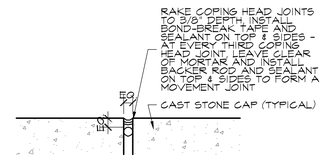
SCALE: 3" = 1'-0"



TOP OF WALL

2 A-3 **MASONRY DETAIL**

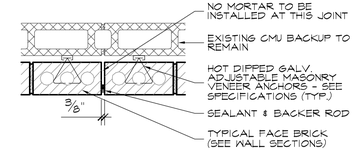
SCALE: 3" = 1'-0"



WALL CAP

3 A-3 **MASONRY DETAIL**

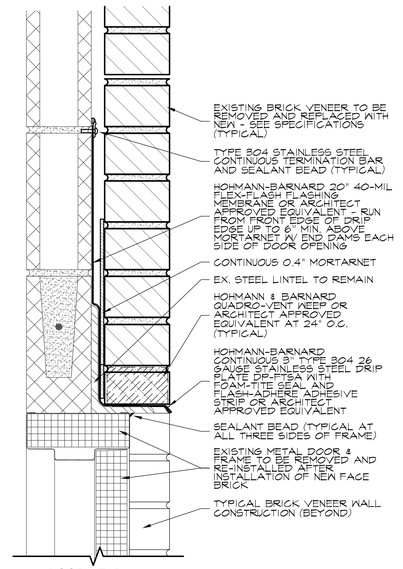
SCALE: 3" = 1'-0"



CONTROL JOINT

4 A-3 **MASONRY DETAIL**

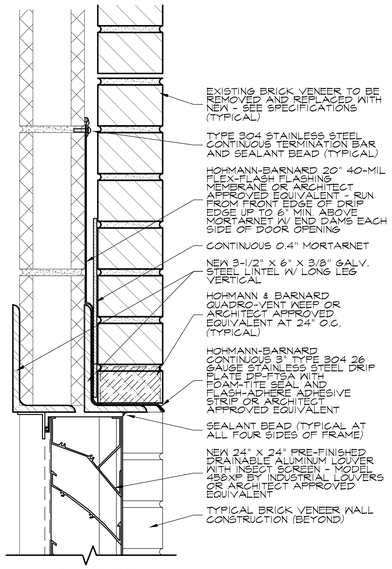
SCALE: 1-1/2" = 1'-0"



DOOR HEAD

5 A-3 **MASONRY DETAIL**

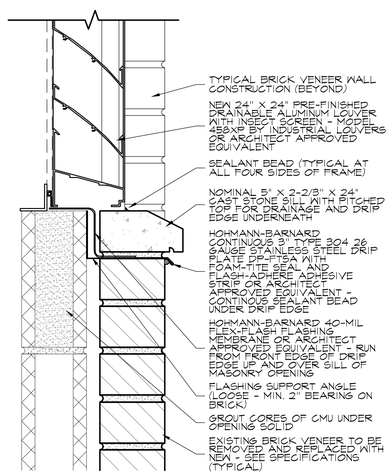
SCALE: 3" = 1'-0"



LOUVER HEAD

6 A-3 **MASONRY DETAIL**

SCALE: 3" = 1'-0"



LOUVER SILL

7 A-3 **MASONRY DETAIL**

SCALE: 3" = 1'-0"

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Project

VILLAGE HALL CLOCK TOWER MASONRY REPAIRS

VILLAGE OF ORLAND PARK

14700 RAVINIA AVENUE
ORLAND PARK, IL 60462

Drawing Title 10059_BASE.DWG

MASONRY DETAILS

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STATE OF ILLINOIS
ROBERT L. JURIS
001-010993
LICENSED ARCHITECT

DATE

EXPIRES 11-30-2012

SIGNATURE

Project No.	10059
Drawn By	
Drawn By	BAL
Checked By	RLJ

Drawing A-3 of FOUR

GENERAL NOTES AND SPECIFICATIONS

BIDDING REQUIREMENTS - See The Village of Orland Park's Bidding Requirements under separate cover.

CONDITIONS OF THE CONTRACT - See The Village of Orland Park's Conditions of the Contract under separate cover.

1.0 SUMMARY OF THE WORK

A. The general scope of this work is for the Masonry Repair Project for The Village of Orland Park, located at the existing Orland Park Village Center at 14700 Ravinia Drive in Orland Park, Illinois. The work will include, but is not necessarily limited to: selective demolition work of the masonry walls and other related construction, and replacement with new construction as shon on the Bid Documents at the existing clock toner at the Village Hall building and a partial height wall at the Civic Center building.

B. Cooperate and coordinate all scheduling of work with the Building Manager/Onner in order to minimize conflicts and to facilitate full normal office operations. Schedule the work to accommodate these operations and provide all necessary enclosures, protections, temporary partitions and entrances, security, etc. to meet the Owner's requirements.

1.1 GENERAL REQUIREMENTS

A. General contractor's duties:

1. Provide and pay for all labor, materials, tools, machinery, equipment, utilities, temporary facilities, permits, licenses, fees, bonds, insurance and services as necessary for proper execution and timely completion of the work.
2. Comply with all codes, ordinances, rules, regulations, codes and other legal requirements of public authorities, which bear on performance of work.
3. Project coordination:
   a. Coordinate and supervise work of all employees and subcontractors to assume proper performance of work and compliance with schedules.
   b. Resolve questions/conflicts which may arise. Consult with Architect to interpret the Contract Documents.
   c. Process Shop Drawings. Review for compliance with Contract Documents prior to submittal to the Architect.
   d. Schedule and administer regular Project meetings with the Owner, Architect and any necessary subcontractors/suppliers on a regular basis, but at intervals not exceeding 14 days. The General Contractor shall be responsible for maintaining minutes of these meetings and distribution afternards of minutes to all major parties involved.
   e. Schedule the Work so that any work that will disrupt existing tenants be performed after building hours. This work shall be scheduled and arranged with the Property Manager.
   f. The General Contractor shall update and distribute the Construction Schedule at least prior to each construction coordination meeting, but not to exceed intervals of 14 days.
4. Maintain existing & new construction in a structurally safe & stable condition at all times.
5. Field check & verify all dimensions as work progresses reporting any discrepancies to the Architect immediately.
6. Provide construction aids, temporary enclosures and barriers as required to facilitate execution of work and to provide protection of work as well as all construction personnel, passersby and existing facilities and landscaping. Contractor is responsible for the protection at all existing property, including existing wall/floor/etc. finishes, and traffic routes used by trades. Repair or replacement of any property damaged during construction is the sole responsibility of the Contractor.
7. Provide & maintain all access roads and parking areas required by construction. Control & supervise all construction traffic. Maintain roads and parking areas in a clean condition. Maintain access for emergency vehicles at all times. Keep fire hydrants and water control valves free from obstruction.
8. Provide, initiate & maintain effective dust control, water control, pollution control, erosion control, fire prevention, and project security programs throughout the construction period. Provide protection from welding. Protect against the weather, fire, theft, vandalism & injury.
9. All materials shall be new and of the highest quality.
10. All work by the General Contractor, sub-contractors and suppliers shall be performed by skilled tradespersons.
11. Incorporate all materials and equipment into the work in accord with all applicable standards, specifications, manufacturer's instructions and the Contract Documents. Separate all dissimilar metals.
12. Maintain all premises free from debris. The owner's dumpsters will not be available for use during construction by the Contractors. Assume responsibility for final cleaning of all interior and exterior finished surfaces and fixtures. This cleaning shall include all final cleaning of all interior finished surfaces at the completion of the Construction Project, just prior to beneficial occupancy.
13. Compile information on the operation and maintenance of all products and equipment.
14. Coordinate all cutting and patching. Install all bracing, reinforcing, etc., necessary to maintain building structural integrity. Repair and restore all areas and finishes to original condition.
15. Maintain project record documents including Contract Drawings, reviewed and stamped Shop Drawings, Change Orders, Field Change Authorizations, other modifications to the Contract and field test records. Provide one (1) complete set of blueline prints to the Architect at the end of the Project which have been kept by the General Contractors field superintendent and which have been continually updated during the course of construction indicating minor changes in the work by the General Contractors field superintendent using a red ink pen. The changes shall include, but not necessarily limited to revised partition locations, dimensions, equipment, electrical and mechanical devices, light fixture locations, etc.
16. General Contractor to submit standard AIA Certificates of Payment and an itemized Sworn Statement not more frequently than once monthly with waivers of lien from all Contractors and major suppliers.
17. All changes must be authorized by the Architect on standard Change Order forms prior to commencement of the affected work.
18. Completion of the work:
   a. When the General Contractor considers that the work or portions thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare a punchlist with the assistance of the Architect and Owner and distribute to all subcontractors. When these punchlist items are determined by the Architect to be substantially complete, he will issue a Certificate of Substantial Completion. Upon substantial completion of the work or designated portion thereof, and upon application by the Contractor, the Owner shall make payment, reflecting adjustment in retainage, if any, for such work or portions thereof as provided in the Contract Documents.
   b. Submit all guarantees, operating instructions, keys and final waivers at final payout.

1.2 GENERAL NOTES

A. These are suggested minimum specifications (subcontractors shall verify with the General Contractor if these specifications are exceeded or changed).

B. All work shall be performed in accordance with all applicable local, state and national codes and ordinances and all authorities having jurisdiction.

C. All dimensions on the floor plans are nominal dimensions and are from the finished faces of masonry and concrete materials.

D. The General Contractor and all subcontractors shall verify all dimensions and conditions before proceeding with work and notify superintendent at once of any discrepancies prior to commencing work.

E. On-site verification of all dimensions and conditions shall be the responsibility of each subcontractor.

F. The Architect shall not have control or charge of, and shall not be responsible for construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the work, or for the acts or omissions of the Contractor, Sub-contractors, or any other persons performing any of the work or for the failure of any of them to carry out the work in accordance with the intent of the contractor documents. The Architect shall not be responsible for Structural Work and Scaffolding Acts.

G. Contractor shall provide adequate bracing and/or shoring to insure structural stability of building during construction.

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1.3 GENERAL STRUCTURAL NOTES

A. Allonable unit stresses and loading are in accordance with the applicable local building code(s)current edition(s).

B. Requirements and design data shall be followed entirely regardless whether they are given by both the specifications and drawings or either one only.

C. Shop drawings prepared by the contractors, suppliers, etc. shall be reviewed by the Architect and/or the Structural Engineer only for conformance with design concept. One reproducible sepia and four blueline prints of shop drawings shall be submitted for review. No work shall be started without such review. Before submittal to the architect, shop drawings shall be reviewed by the General Contractor and shall be stamped by him.

D. Contractors to assume full responsibility supervision or periodic observation of construction for:

1. Compliance with the contract documents
2. For dimensions to be confirmed and correlated on the job site and between individual drawings or sets of drawings.
3. For fabrication processes and construction techniques. (including excavation shoring, scaffolding, bracing, erection, formwork, etc.)
4. For coordination of the various trades.
5. For safe conditions on the job site.

E. Unless otherwise noted all details, sections and notes on the drawings are intended to be typical for similar situations elsewhere.

F. The information contained on the structural drawings is in itself incomplete and void unless used in conjunction with all the contract documents and with all the specifications, trade practices, or applicable standards, codes, etc. incorporated therein by reference which the contractor certifies knowledge of by signing the contract.

G. The General Contractor shall be responsible for coordinating the structural drawings with architectural, mechanical and electrical drawings for location and placement of all inserts, hangers, sleeves, ductwork, openings, etc. that are required by the work and/or equipment, etc.

H. Adequacy of temporary shoring and other temporary shoring and other temporary support devices are the responsibility of the contractor. Honever, basic procedures, which shall be developed by the Contractor, must be approved before construction may commence.

I. If conditions arise that are at variance with or have not been anticipated by these drawings, such conditions shall be reported to the architect immediately. Work shall not progress until written permission from the owner is obtained.

1.4 MATERIALS & WORKMANSHIP

A. All work shall be performed in a neat workmanlike manner.

B. Each subcontractor shall include labor, materials, tools, equipment, etc., for the complete construction of work indicated and specified by both the drawings and specifications, unless other written arrangements are made between the Contractor and the Owner.

C. Materials as specified on drawings shall be used. Substitutions of materials will not be allowed without the written consent of the Owner and notification of the Architect.

D. Each Sub-contractor shall remove and replace at his own cost, any defects or other faults in his workmanship and/or material.

E. Each subcontractor is to clean up debris inside and outside the building site which has been caused by his work and place in a dumpster provided by the General Contractor.

F. All material finishes and styles including but not limited to sealants, face brick, concrete copings, etc. not necessarily specified on the drawings shall be submitted to and approved by the Architect.

DIVISION 2 - EXCAVATION, DRAINAGE & SITE WORK (NOT USED)

DIVISION 3 - CONCRETE (NOT USED)

DIVISION 4 - MASONRY

4.1 BRICK AND CAST STONE

A. Clay brick and concrete masonry construction shall conform to the American Standard Building Code Requirements for Masonry issued by the U.S. Department of Commerce, latest edition, and to "Building Code Requirements for Masonry Structures", issued by the American Concrete Institute/American Society of Civil Engineers/The Masonry Society (ACI 530-95/TMS 402-95) and to the "Specifications for Masonry Structures" (ACI 530.1-95/ASCE 6-95/TMS 602-95).

B. Unless specifically noted, composite masonry walls are designed as drainage walls. Collar joints shall remain free of mortar droppings to assure proper drainage. See Architectural drawings for flashing, weepholes, etc. Install cavity drainage material (Mortar Net Block or equivalent) above flashing.

C. Given design data assumes the existence of adequate field-testing and supervision of construction, fulfilling the "with inspection" criteria of the Code.

D. Masonry materials shall conform to the latest editions of the Specifications:

1. Facing brick, ASTM C216, Type FBS, Grade SW with an initial rate of desorption between 10 and 25 g/MIN/30 sq. in. Minimum compressive strength shall be 5,000 psi.
2. Hollow load-bearing concrete block, ASTM C90, Grade NI. Minimum compressive strength shall be 2,000 psi on net area of unit. Concrete masonry units shall be of medium weight (105-125 pcf). See Masonry wall schedule for additional information.
3. Mortar: ASTM C270, Portland Cement-Lime (PCL), Type "N", natural (Mortar Proportions by volume): 1 part Portland Cement, 1 part lime and 6 parts sand.
   a. Mortar shall be white color to match existing with concave tooled joints for face brick type 2 & type 3. Mortar for face brick type 1 shall match the color of the brick. All other mortar shall be grey in color. Mortar color pigments shall be natural/synthetic metallic oxides and chromium oxides, compounded for use in mortar mixes. Use only pigments with record of satisfactory performance in masonry mortars. Carbon black is not an acceptable pigment. Pigments are not to exceed 10% of the cement weight. Color mortar shall be pre-blended in a one-bag mix. DCS colors pre-blended mortar mix or approved equivalent. Retempering of colored mortar shall not be permitted.
   b. Acceptable manufacturers: LaFarge North America, Inc.
   c. Materials:
      1) Portland Cement, Type I - ASTM C150
      2) Hydrated lime, Type "S" - ASTM C207

Masonry Cement shall not be allowed.

3) Mortar Cement: Complying with the requirements of the mortar types specified and UBC Standard 21-14 for Mortar Cement.

4) Aggregate for masonry mortar and masonry grout: Fine aggregate (ASTM C144), and Coarse Aggregate (ASTM C404).

5) Water shall be clean and free of deleterious amounts of acids, alkalis, salts, or organic materials.

a) Metal wires used as ties and anchors: ASTM A82, galvanized in accordance with ASTM A153, Class B2 (1.5 oz per sq. ft.). Provide certification of galvanizing.

b) Reinforcement shall be ASTM A615, Grade 60.

c) Premolded control joints/filler strips: polyvinyl chloride complying with ASTM D2287 or styrene-butadiene rubber compound complying with ASTM D2000.

E. Prior to delivery of masonry units to the job site, furnish the Architect with affidavits from an approved testing laboratory certifying that all units conform to their respective ASTM requirements.

F. Mortar and grout shall be tested by an approved testing laboratory in accordance with ASTM C270. Two sets of three mortar cubes and three grout cubes shall be taken at random for each day of masonry work. Test 1 cube of each set at 7 and 28 days. The third cube to be tested at 56 days only if required by the Owner's material testing agency.

G. Air entrainment, calcium chloride and/or admixtures containing same shall not be included in mortar of grout.

H. No exterior masonry shall be laid when outside air temperature is less that 40 degrees F., unless adequate protection in accordance with Section 1.8.C, "Cold Weather Construction", of ACI 530.1-95/ASCE 6-95/TMS 602-95. Specifications for Masonry Structures, is provided. For hot weather construction requirements refer to section 1.8.D.

I. Masonry walls shall be adequately braced during their erection and until their design supports are in place to withstand a horizontal load of 20 psf.

J. Typical joint reinforcing shall be #d gauge continuous side wires and shall be installed at 16" vertical spacing. In addition, one layer of reinforcing shall be located at each floor slab level, and one at the first course above all window openings. At wall intersections, use prefabricated corners and tees.

K. Brick veneer shall be tied to backup wall with adjustable wall ties at a maximum tie spacing of 16" x 16" Or 24" x 10-2/3".

L. Mortar and grout used for reinforced masonry construction shall comply with the requirements of ASTM specifications C476, Standard Specifications for mortar and grout for reinforced masonry, except that mortar shall also comply with the requirements of ASTM specifications C270.

M. Minimum compressive strength for mortar at 28 days shall be as follows:

TYPE N...750 psi
TYPE S...1850 psi

N. Minimum compressive strength for grout at 28 days shall be 2500 psi unless noted on drawings.

O. Use of admixtures in grout and mortar is not permitted unless accepted by structural engineer.

P. Submit type and proportions of the ingredients composing the grout mixtures to be used. Include a letter certifying cement compliance with the requirements of the contract documents. Also, submit weight slips at the time of delivery.

Q. Slump of grout shall be between 8 in. and 11 in.

R. Grout lift height shall not exceed 4 ft. In walls or piers terminate grout pours approximately 1 in. below top of masonry.

S. Consolidate grout at time of placement. For grout pours less than 12 inches in height, grout shall be consolidated by mechanical vibration or by puddeling. For grout pours exceeding 12 inches in height, consolidate grout by mechanical vibration and reconsolidate by mechanical vibration after initial water loss and settlement has occurred.

T. Fine grout shall be used in grout spaces of 2 in. or less. Otherwise, coarse grout may be used. In grout spaces exceeding width of 8 in., coarse grout using 1/2 in. aggregate may be used.

U. Lap splices for reinforcement used in reinforced masonry construction shall be 50 bar diameters. Lap horizontal joint reinforcement minimum 9 inches.

V. Reinforcement shall be supported and secured against displacement before grouting. No reinforcement may be installed after grout is placed.

W. Exterior Masonry/Precast Concrete Selections:

1. Standard Norman Economy Size brick, actual size: 2-1/4" high x 3-5/8" nythe x 11-5/8" long
   a. Type 1 Face brick: "Dark Ironspot" Velour as manufactured by Endicott Clay Products
   b. Type 2 Face brick: "Coppertone" Velour as manufactured by Glen-Gery Corporation
   c. Type 3 Face brick: "#31 White Smooth" as manufactured by Endicott Clay Products (NOT USED)
2. Architectural (man made) Pre-cast Copings: As fabricated by an approved Architectural Pre-Caster (shall be a member of the PCI/Precast Concrete Institute, and shall be in business producing similar pre-cast product for no less than ten (10) consecutive years) in the shapes, sizes, and profiles as shown on the drawings. Cast with 5,000 PSI, 3% air-entrained stone concrete and hot-dipped galvanized reinforcing, color: white and texture to match existing as close as possible.

X. Provide samples of face brick veneer and pre-cast concrete copings for Architect and Owner's review and approval.

Y. Provide a mock-up panel by the masonry contractor for the architect and owner to review and approve in the field showing the top of the masonry wall with concrete cap and base flashing conditions, similar to details 6 & 7/ A-2.

Z. Use preformed stainless steel drip edge corners at all corner conditions. Flashing shall not protrude over the stainless steel metal drip edge, but rather shall be fully bonded to the top surface of the drip edge with mastic or flashing manufacturers approved sealant. The stainless steel metal drip edge shall be continuously sealed at the underside of the drip with the edge of the existing wall below. Weep holes shall be placed immediately above all flashing and shall be space no more that 24 inches on center. Provide sealed end-dams on all concealed flashing; lap joints a minimum of 6 inches and seal watertight. Turn flashing up vertical surface of walls a minimum height of 16 inches and seal against new waterproofing membrane with an approved termination bar and sealant.

AA. Execution:

1. Lay masonry units using the best masonry practices. Install only quality masonry units; reject all defective units.
2. Align masonry units level, plumb and true with uniform, carefully tooled joints on the finished side of wall. Dran blocks from more than one pallet at a time during installation.
3. Joints: All exterior masonry joints shall be tooled concave.
4. Make all unit cuts, including those for bonding, holes, boxes, etc. using motor-driven masonry saws, using either an abrasive or diamond blade. Cut neatly and locate for best appearance.
5. Fill all masonry head and bed joints as solidly as possible.
6. Install flashing at all locations shown on the drawings and where required to positively drain water to the outside of the masonry wall. Provide weep holes in the locations and at the spacing shown on the drawings.
7. Keep walls clean daily during installation using brushes. Do not allow excess mortar lumps or smears to harden on finish surfaces. Remove all green mortar.
8. Cover all walls each day after installation to keep open walls protected and dry. Handle masonry units carefully to avoid breakage and damage to finish surfaces.
9. Do not use acid or acid base solutions to clean masonry units. A detergent masonry cleaner shall be used following the manufacturer's instructions and the surface shall be thoroughly rinsed with clean nater. Acceptable products: Sure Klean No. 600 detergent, ProSoCo, Inc.
10. Install 1" ThermoDrain insulated drainage board for cavity walls (with 3/8" opening mesh in airspace cavity, see detail 11/A-2.) as manufactured by Illinois Products Corp., IPCO Flashing System, West Chicago, IL. 800/383-8183.

DIVISION 5 - METALS

5.1 METAL RAILS

A. GENERAL

1. This Section includes all labor, material, equipment and related services necessary to install the metal rails indicated on the drawings and specified herein.

B. REFERENCES

1. Reference Standards: Any material or operation specified by a reference standard shall comply with the requirements of the standard listed. Where these specifications are more stringent than the reference standard, these specifications shall govern.

ASTM A53-Hot-Dipped, Zinc-coated Welded and Seamless Steel Pipe.

ASTM A123-Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.

ASTM A500-Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Round and Shapes.

ASTM A501-Hot-Formed Welded and Seamless Carbon Steel Structural Tubing.

ASTM E935-Test Methods for Performance of Permanent Metal Railing Systems and Rails for Buildings.

ASTM E985-Permanent Metal Railing Systems and Rails for Buildings.

SSPC (Steel Structures Painting Council) - Steel Structures Painting Manual.

C. DESIGN REQUIREMENTS

1. Railing assembly, wall rails, and attachments to resist lateral force of 75 lbs. at any point without damage or permanent set.

D. SUBMITTALS FOR REVIEW

1. Shop Drawings: Indicate profiles, sizes, connection attachments, anchorage, size and type of fasteners, and accessories for any replacement materials.

E. PRODUCTS

1. STEEL RAILING SYSTEM
   a. Rails: 1-1/2" steel pipe diameter with welded joints.
   b. Brackets, Flanges, Fittings, and anchors: Provide as required for interconnection of pipe an attachment of rails to other work. Furnish inserts and other anchorage devices for connecting rails. Provide proper size brackets for required rail clearance from walls.
   c. Shop and Touch-Up Primer: SSPC 15, Grey in color.

F. FABRICATION

1. Fit and shop assemble components in largest practical sizes for delivery to site.
2. Steel rails: Interconnect rail members by butt-welding or welding with internal connectors, at fabricators option, except as otherwise shown. Form simple and compound curves by bending pipe in jigs to produce uniform curvature for each repetitive configuration required. Maintain cylindrical cross-section of pipe throughout entire bend without buckling, twisting or otherwise determing exposed surfaces of the pipe. Provide wall returns at ends of wall-mounted handrails. Close exposed ends by welding 3/16 inch thick steel plate or by use of prefabricated fittings.

G. EXECUTION

1. EXAMINATION
   a. Verify that field conditions are acceptable and are ready to receive work.
2. PREPARATION
   a. Clean and strip primed steel items to bare metal where site welding is required.
   b. Supply items required to be cast into concrete and or embedded in masonry with setting templates, to appropriate sections.
3. INSTALLATION
   a. Fastening to in-place construction: Provide anchorage devices and fasteners where necessary for securing handrails to in-place construction, including threaded fasteners for concrete and masonry inserts, toggle bolts, through-bolts, lag bolts, wood screws and other connectors as required.
   b. Cutting, Fitting and placement Perform cutting, drilling and fitting required for installation of handrails. Set work accurately in location, alignment and elevation, plumb, level, true and free of rack, measured from established lines and levels. Provide temporary bracing or anchors in formwork for items to be built into concrete, masonry or similar construction.
   c. Connections: Fit exposed connections accurately together to form tight hairline joints. Weld connections which are not to be left as exposed joints, but cannot be shop welded because of shipping size limitations. Grind exposed joints smooth and touch-up with paint to match shop paint
   d. Field Welding: Comply with ANS code for procedures of manual shielded metal-arc welding, appearance and quality of welds made and methods used in correcting welding work.
   e. Corrosion Protection: Coat concealed surfaces which will be in contact with concrete, masonry, wood or dissimilar metals, in exterior work and work to be built into exterior and below grade walls and decks, with a heavy coat of bituminous paint Do not extend bituminous onto exposed surfaces.
4. ERECTION TOLERANCES
   a. Maximum Offset From True Alignment: 1/4 inch.
   b. Maximum Out-of-Position: 1/4 inch.
5. ADJUSTING
   a. Field touch-up of scratches and/or defaced finishes on exposed surfaces will be permitted only if approved by the Architect, otherwise, defective work shall be rejected and replaced with new material.
   b. Immediately after erection, clean field welds, bolted connections and abraded areas of shop paint or galvanized finish and touch-up with the same material as used for shop finishing. Apply touch-up material by brush or spray to match shop finish.

DIVISION 6 - WOOD & PLASTICS (NOT USED)

DIVISION 7 - THERMAL & MOISTURE CONTROL

7.1 JOINT SEALERS

A. Include all labor, materials, equipment and related services to furnish and install the joint sealers indicated on the drawings and specified herein.

1. Perform work in accordance with the sealant manufacturer's requirements for preparation of surfaces and material installation instruction.

B. Products:

1. For Exterior Joints: One-part pre-mixed Polyurethane Sealant, ASTM C920, Grade NS, Class 25 Dymonic as manufactured by Tremco, color to be selected.
2. For Interior Joints: Siliconized Latex compatible for painted finishes.
3. Backer Rod - Compressible Foam: Ethafoam SB, Dow Chemical Co.

C. Mask all exposed material adjacent to sealant joint prior to sealant application. In general, seal all joints around windows and door frames and where indicated elsewhere on the Drawings. Tool all joints concave or as otherwise detailed on the Drawings.

DIVISION 8 - DOORS, WINDOWS, HARDWARE and GLAZING (NOT USED)

DIVISION 9 - FINISHES

9.1 PAINTING

A. General: All work shall be performed in strict accordance with manufacturers instructions and recommendations including surface preparation, mixing and thinning, method of application, drying time between succeeding coats and environmental conditions under which coatings may be applied

B. Scope of work: The work shall include painting of all new steel pipe rail surfaces at the clock toner roof shonn on the drawings to receive a paint finish.

C. Manufacturers:

1. Paints: Sherwin-Williams, Glidden, Benjamin-Moore
2. Stains: Olympic, Cabot, Sherwin-Williams

D. Paint Schedule

1. Exterior:
   a. Steel -Primed
      1) Touch-up Primer
      2) Two coats of latex enamel, gloss or semi-gloss (Color to match existing - white).

E. Inspect all surfaces to be finished. Provide type of patching and filler material suggested by the paint manufacturer for the type of material being patched or filled. The painting contractor shall be responsible for minor patching and filling of all existing surfaces to receive paint finishes. Applications shall be construed as acceptance of surface conditions.

F. Execution: Prepare all surfaces per paint manufacturer's instructions. Do not apply paint to areas where dust is being generated. Finish coats shall be smooth and free of brush marks, runs, laps or streaks. Touch-up as necessary. Protect all adjacent work. Clean up all splatters and keep work area clean. Make edges of paint adjoining other materials or colors clean and sharp. Do not apply materials of different manufacturers over one another.

END OF SPECIFICATIONS

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No.	Issues & Revisions	Date
1	ISSUE FOR PERMIT & BIDDING	04/15/2011

Project

VILLAGE HALL CLOCK TOWER MASONRY REPAIRS

VILLAGE OF ORLAND PARK

14700 RAVINIA AVENUE
ORLAND PARK, IL 60462

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