

ADDENDUM NUMBER 1**WAUKESHA COUNTY ADMINISTRATION COURTYARD AND ENTRANCE
WAUKESHA, WISCONSIN
AUGUST 30, 2011**

Zimmerman Project Number: 110082.00

From:

Zimmerman Architectural Studios, Incorporated
2122 West Mount Vernon Avenue
Milwaukee, WI 53233

To:

Prospective Bidders

This Addendum is issued to modify, explain, and amend the originally issued Specifications and Drawings dated August 16, 2011, and is hereby made a part of the Contract Documents. Please acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may result in bidder disqualification.

PLEASE INSERT THIS ADDENDUM IN THE PROJECT MANUAL

SPECIFICATIONS

Section 00 11 13 - Invitation to Bid

Item 2: REVISE date bids are due from September 6, 2011 to September 8, 2011.

Item 9: DELETE reference to bid documents being available digitally; they are only available from ARC.

Section 00 21 00 - Supplementary Instructions to Bidders

Worksite Availability: ADD to end of paragraph: "Daily site availability limited to City and County requirements".

Section 00 41 00 - Bid Form

Item 3: REVISE date bids must be submitted before from Tuesday, September 6, 2011, to Thursday, September 8, 2011.

Item 7: REVISE completion date from October 28, 2011 to:
October 28, 2011: Base Bid and Alternates C through G and I
December 31, 2011: Alternates B and H
June 30, 2011: Alternate A

Section 00 73 00 - Supplementary Conditions

1.03 Liquidated Damages: DELETE part from section.

Section 01 23 00 - Alternates

1.4 Description of Alternates, D.2, REVISE specifications section reference from 03 30 05 to 07 19 00.

Section 04 20 00 - Unit Masonry

ADD section to manual.

Section 06 09 00 - Rough and Finish Carpentry

- 1.02 Quality Assurance, D., REVISE material to read "ACQ-Alkaline Copper Quaternary compound (CA-B, CA-C and MCA)."
 1.02 Quality Assurance, E., DELETE part.

DRAWINGS--Civil--Sheet C100 - Grading and Erosion Control Plan (see reissued sheet)

- REVISE curb and gutter length on the east end of the entrance improvements from 37 L.F. to 34 L.F.
REVISE curb and gutter on the west end of the entrance improvements to match into existing concrete to remain around the drop box location.

--Landscape--Sheet L001 - Courtyard & Entry Demolition Plans (see reissued sheet)

- REVISE light fixture demo in courtyard.
REVISE site demo @ ex. mailbox & drop box in entry.

Sheet L100 - Courtyard Site Plans (see reissued sheet)

- REVISE masonry extension notes @ area wells.
REVISE note regarding hose bibb extension.
REVISE typ. length of cut stone seatwalls.
ADD general notes regarding hardscape layout & dimensions.
ADD radii & on-center dimensions of pergola posts.

Sheet L101 - Entrance Site Plans (see reissued sheet)

- REVISE extent of new paving @ ex. mailbox to remain.
REVISE extent of new paving @ ex. drop box to remain.
REVISE typ. length of cut stone seatwalls.
ADD general notes regarding hardscape layout & dimensions.
ADD overall LF measurement of cut stone seatwalls.
REVISE hardscape dimensions at pedestrian median area.

Sheet L500 - Site/Landscape Details, Schedules & Notes (see reissued sheet)

- REMOVE unnecessary plant schedule & installation details.
REVISE Site/Landscape notes to eliminate unnecessary items.
REVISE Site Amenity notes re: cut stone seatwall typ lengths and submittal requirements, Lithocrete source & material specification, and hose bibb extension intent.

--Architectural--Sheet A100 - Courtyard Plans and Details (see reissued sheet)

- Details 2 and 3: REVISE annotation.

Sheet A101 - Courtyard Plans and Details (see reissued sheet)

- Detail 3: REVISE extent of Work and ADD note.
 Detail 4: REVISE extent of Work and type of brick.

Section 04 20 00 - Unit Masonry**PART 1 - GENERAL****1.01 DESCRIPTION****A. Work Included:**

1. Labor and materials required to complete masonry work.

1.02 QUALITY ASSURANCE**A. Standards:**

Masonry materials and masonry construction shall comply with the latest edition of:

1. Brick Industry Association, "Technical Notes on Brick Construction".
2. National Concrete Masonry Association (NCMA)
 - a. Specification for the design and construction of load-bearing concrete masonry.
 - b. Guide specifications for Cold Weather Masonry Construction, International Masonry Industry All-Weather Council, latest edition.
 - c. TEK 19-7 - Characteristics Of Concrete Masonry Units with Integral Water Repellent.
 - d. TEK 23A - Grouting for Concrete Masonry Walls.
 - e. TEK 59 - Reinforced Concrete Masonry Construction.
 - f. TEK 71 - Cold Weather Construction with Concrete Masonry.
3. American Concrete Institute ACI 531 - Building code Requirements for Concrete Masonry Structures.

B. Standards: latest revision.

ASTM C 150 - Standard Specification for Portland Cement.

ASTM C 33 - Standard Specification for Concrete Aggregates.

ASTM C 90 - Standard Specification for Hollow Load-Bearing Concrete Masonry Units.

ASTM C 144 - Standard Specification for Aggregate for Masonry Mortar.

ASTM C 270 - Standard Specification for Mortar for Unit Masonry.

ASTM C 207 - Standard Specification for Hydrated Lime for Masonry Purposes.

ASTM C 216-95a - Standard Specification for Facing Brick (Solid Masonry Units Made from Clay or Shale).

ASTM C 331 - Standard Specification for Lightweight Aggregates for Concrete Masonry Units.

- C. The specified compressive strength f'_m for concrete masonry units (CMU) shall be verified by the block supplier by prism tests in accordance with NCMA specification, ASTM C 39 and ASTM E 447.
- D. All masonry and grouting and reinforcing work shall be performed by masonry workers who have successfully completed the International Masonry Institute (1.800.464.0988) training course

for Grouting and Reinforced Masonry Construction, or equal. Installing contractor shall assign supervision of all grouting and reinforcing to personnel who have successfully completed the International Masonry Institute (1.800.464.0988) training course for Grouting and Reinforced Masonry Construction, or equal. The supervisor responsible for the placement of reinforced assemblies will be present at the time of each grout pour.

- E. Brickwork Panel: Erect sample panel at site for Architect's approval.
 - 1. Make each mock-up panel approximately 4'-0" high and 6'-0" long.
 - 2. Provide one mock-up panel for each combination of face brick, bond pattern, mortar color and joint type used in the work.
 - 3. Revise as necessary to secure Architect's approval.
 - 4. No brickwork shall be started until sample panel has been approved. All brickwork on project shall match approved panel.
 - 5. Remove panel when directed.

1.03 SUBMITTALS

- A. Materials list of items proposed to be provided under this Section.
- B. Manufacturer's specifications and other data needed to prove compliance with the specified requirements.
- C. Portland Cement: Submit name of product to Architect.
- D. Concrete masonry units: Submit manufacturer's certificate of compliance for concrete block density and strength upon request.
- E. Submit samples of all materials specified herein when requested.
- F. Submit details of the method of mixing the mortar, including the manner in which the sand will be measured, before beginning work.

1.04 PRODUCT DELIVERY HANDLING AND STORAGE

- A. Deliver, handle and store materials so as to prevent inclusion of foreign materials and damage by water or breakage.
- B. Deliver packaged materials and store in original packages until ready for use. Packages or materials showing evidence of water or other damage will be rejected.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Anchors, Ties, Etc.:
 - 1. Partition Anchors: 1/8" thick galvanized steel rigid strap type partition anchors bent on both ends. For anchoring load bearing walls at intersections
 - 2. Approved Manufacturers:

- Hohmann & Barnard, #344 - Rigid Partition Anchor
 - Wire Bond
 - Heckman Building Products
 - Dur-O-Wal, Inc.
3. Veneer anchors for use with steel stud/brick veneer system:
- a. "L-Plate" manufactured from 16 gauge sheet steel (0.0538" minimum base steel thickness) with hot-dip galvanized finish. The overall length of the L-Plate shall be 18 mm (0.7") longer than the specification length. The specification length is the total distance between the exterior face of the insulation and the exterior face of the structural stud.
"V-Tie™" manufactured from 4.76 mm (0.19") diameter wire with hot-dip galvanized finish.
Insulation Support manufactured from poly ethylene. It is pressed over the outboard end of the L-Plate tightly against the cavity insulation to prevent the insulation from separating from the structural backing/air barrier.
 - Fero Corporation., "Rap-Tie System"
 - b. 14 gauge hot dipped galvanized steel anchor with Three pointed prongs which pierce wallboard and abut to the steel stud.
 - Wire Bond, "HCL-711"
 - c. Adjustable veneer anchor with prongs that project from the back to prevent positive wind-loads from crushing the wallboard.
 - HB-200-X Adjustable Veneer Anchor
- B. Masonry Horizontal Wall Reinforcing: electrically welded side and cross rods, ladder or truss type with galvanized side and cross rods. Hot Dip Galvanizing shall conform to ASTM A153, Class B-2 (1.5 oz. per square foot, average).
- 1. Standard type with No. 9 gauge side and cross rods.
 - 2. Provide special fabricated units for all corners and wall intersections.
 - 3. Approved Manufacturers:
 - Dur-O-Wall, Inc., "Dur-O-Wal"
 - Heckmann, "No. 1100" and "No. 1200"
 - Hohmann and Barnard, Inc., "Lox All"
- C. Reinforcing Steel: ASTM A 615, Grade 60.
- D. Water shall be clean and free from deleterious material, suitable for drinking and range from 50 to 70 degrees F.
- E. Portland Cement to comply with Standard Specifications of the American Society for Testing Materials, C 150, Type I. Cement shall be standard product name of which shall be submitted to Architect for approval.

- F. Lime: Hydrated lime conforming to standard specifications of the ASTM C 207, Type S.
- G. Sand for Mortar: Clean, sharp, free from loam, silt, vegetable matter, salts and other injurious substances, and shall conform to ASTM C144, except that sand for mortar in 1/4 inch wide joints shall pass a No. 16 sieve. Sand is further subject to approval of the Architect, based on mortar color desired and use of readily available local sands. Sand shall be from one source.
- H. Calcium Chloride: Calcium chloride or admixtures containing chloride salts are not permitted.
- I. Brick:
1. All brick shall conform to requirements of applicable codes as to absorption, compressive strength and grade use.
 2. Building Brick (common brick) shall be of clay or shale, uniform in shade and size and free from cracks, warpage or other defects that would affect serviceability or strength.
 3. Concrete brick shall be Grade N-II, conforming to ASTM C 55.
 4. Face brick shall be Type FBX, Utility size (3-5/8" x 3-5/8" x 11-1/2"), with faces free from defects, conforming to ASTM C 216, Grade SW. Allowable chippage shall conform to ASTM C216-95a, Table 3. No face cracks allowed. Provide all special shapes, as required.
 5. Brick: selected to match existing adjacent brick in size, color and texture and approved by Architect.

2.02 MIXES

- A. Mix mortar in accordance with the proportion requirements of Brick Institute of America Standard Specification for Portland Cements-Lime Mortar for Brick Masonry; M1-72.
- B. Method of measuring materials for mortar used in construction shall be by either volume or weight. The method used shall be such that the specified proportions of the mortar materials can be controlled and accurately maintained.
- C. Mortar Types:
- Type M - For use below grade.
1. One (1) part Portland Cement
 2. One quarter (1/4) part Hydrated Lime
 3. Sand: Not less than 2-1/4 and not more than 3 times the sum of the volumes of cement and lime used.
- Type N - For non-structural walls and interior partitions.
1. One (1) part Portland Cement
 2. One (1) part Hydrated Lime
 3. Sand: Not less than 2-1/4 and not more than 3 times the sum of the volumes of cement and lime used.
- Type S - For use below grade. For use above grade for all load bearing walls, all exterior walls and all walls shown on structural drawings. For use with steel stud/brick veneer construction.
1. One (1) part Portland Cement
 2. One Half (1/2) part Hydrated Lime
 3. Sand: Not less than 2-1/4 and not more than 3 times the sum

of the volumes of cement and lime used.

- D. At Contractor's option, an approved brand of masonry cement mortar, conforming to F.S. SS-C-181B and ASTM C 91 may be substituted for the above mortars.
- E. Tuckpointing Mortar:
Use only prehydrated mortar.
Thoroughly mix all dry ingredients and then add only enough water to produce a damp, unworkable mix that retains its shape when pressed into a ball. After about two (2) hours, add enough water to bring it to the proper consistency, which is somewhat drier than conventional masonry mortars.
- F. Color additive for mortar: All brick work shall have colored mortar.
- Tamms Industries, Inc. "Concentrated Mortar Colors."
- Western Lime and Cement Company, "Colored Masons Blend"
- DCS Color & Supply Co., Inc., Milwaukee, WI
- approved equal
- G. Grout:
1. For filling cores of concrete block:
a. One (1) part Portland Cement;
b. Two and one-half (2-1/2) parts sand;
c. Two (2) parts graded pea gravel passing 1/4" screen.
d. Slump: 9" + or - 1".
e. Compressive Strength: 3000 psi minimum at 28 days.
2. Mix as submitted by concrete supplier.
3. Non-Shrinking Mortar:
- BASF, "Masterflow 713 Plus".
4. Mix shall be verified for strength by testing agency and adjusted as required.
- H. Mixing:
1. All materials for mortars shall be measured by volume; sand and cement mixed dry, lime putty added and water added to bring to proper consistency for use.
2. Masonry cement mortars shall be mixed in strict accordance with manufacturer's instructions.
3. No mortars that have stood more than two (2) hours shall be used.
4. Mortar that has stiffened within above time limit may be retempered.
5. Colored mortar may not be retempered due to possible variations in color.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. General:
1. Lay all work true to dimension, plumb, square and in bond accurately. All courses shall be level with joints of uniform width, except where otherwise specified.
2. No joints shall exceed size specified. Bond all brickwork every sixth (6th) course.
3. Block shall be cut accurately to fit around all pipes, ducts, openings, etc., and all voids slushed full.
4. Provide all scaffolds, staging, hoists, etc., required for

proper execution of work.

B. Brick:

1. Except in freezing weather, all brick having an absorption of five percent (5%) or over shall be thoroughly and uniformly wetted down a few hours before laying.
2. Where brick veneer/steel stud wall system is used, keep vertical joint between brick and back-up clean of any mortar droppings and foreign materials. Provide weep holes maximum 32" o/c at all lintels, relief angles, at top and bottom of wall just above grade and any locations shown on Drawings.
3. All brickwork using modular brick shall be dimensioned three (3) courses equal 8".
4. Tool all joints as directed.
10. Provide expansion joints in brick masonry spaced 20' o/c.

C. Reinforced Masonry Walls:

1. Grouting Techniques: At contractor's option, use either low-lift or high-lift grouting techniques as per NCMA Tek 3-2A and Tek 14-2.
2. Low-Lift Grouting:
 - a. Lay CMU to maximum pour height. Do not exceed 5' height.
 - b. Place grout continuously; do not interrupt pouring of grout for more than one hour. Rod grout during placing. Terminate pours 1-1/2" below beam.
 - c. Under Concrete Beams: Stop grout in vertical cells 1-1/2" below beam.
 - d. Splice reinforcing bars.
3. High Lift Grouting:
 - a. Do not use high-lift grouting technique for grouting unless minimum cavity dimension is 3" or larger.
 - b. Provide inspection holes in first course at all vertical cells to be filled.
 - c. Limit grout pours to heights recommended by NCMA for types of CMU and reinforcing used in the work, but in no case exceed 16' in height.
 - d. Splice reinforcing bars.
4. Prior to grouting, inspect and clean grout spaces. After final inspection close inspection holes (if any).

D. Masonry Wall Reinforcing: Continuously reinforce all concrete masonry walls with specified reinforcing of proper width for wall thickness and in accordance with manufacturer's recommendations.

1. Reinforce top course of all walls and first two (2) courses above and first course below all openings. Reinforcement shall extend 24" each side of opening.
2. Reinforce balance of wall every second block course (16" o/c vertically).
3. At corners and intersections, use special corners or "T" assemblies.

E. Where walls and partitions meet concrete slabs, beams, girders, tees and other construction, fill joint with specified compressible filler and seal.

3.02 TOLERANCES FOR CONSTRUCTION

- A. Variations from the plumb in the lines and surfaces of columns, walls and arrises shall not exceed 1/4 inch in 10 feet, 3/8 inch

in a story height or 20 feet, maximum, or 1/2 inch in 40 feet or more. Variation from plumb for external corners, expansion joints and other conspicuous lines shall not exceed 1/4 inch in any story or 20 feet, maximum, or 1/2 inch in 40 feet or more.

- B. Variation from the level of the grades for exposed lintels, sills, parapets, horizontal grooves and other conspicuous lines shall not exceed 1/4 inch in any bay or 20 feet, or 1/2 inch in 40 feet or more.
- C. Variation of the linear building line from an established position in plan and related portion of columns, walls and partitions shall not exceed 1/2 inch in any bay or 20 feet, maximum, or 3/4 inch in 40 feet or more.
- D. Variation in cross-sectional thickness of walls shall not exceed plus or minus 1/8 inch from the dimensions indicated on the drawings.

3.03 COLD WEATHER REQUIREMENTS

- A. Construction Requirements (masonry being worked on), per NCMA Tek 3-1A and the Guide specifications for Cold Weather Masonry Construction, International Masonry Industry All-Weather Council, latest edition.
 - 1. Air temperature 90 degrees F. to 40 degrees F.: Normal masonry procedures.
 - 2. Air temperature 40 degrees F. to 32 degrees F.: Heat mixing water to produce mortar temperatures between 40 degrees F and 120 degrees F. Maintain mortar above freezing until placement.
 - 3. Air temperature 32 degrees F. to 25 degrees F.: Heat sand and mixing water to produce mortar temperatures between 40 degrees F and 120 degrees F. Maintain mortar above freezing until placement.
 - 4. Air temperature 25 degrees F. to 20 degrees F.: Mortar on boards should be maintained above 40 degrees F. Maintain mortar above freezing until placement. Do not lay units having a temperature below 20 degrees F. Remove visible ice prior to laying units.
 - 5. Air temperature 20 degrees F. and below: Heat sand and mixing water to produce mortar temperatures between 40 degrees F and 120 degrees F. Maintain mortar above freezing until placement. Do not lay units having a temperature below 20 degrees F. Remove visible ice prior to laying units.
- B. Protection Requirements (completed masonry or sections not being worked on) per NCMA Tek 3-1A and the Guide specifications for Cold Weather Masonry Construction, International Masonry Industry All-Weather Council, latest edition.
 - 1. Mean daily temperature 90 degrees F. to 40 degrees F.: Cover tops of walls at end of workday.
 - 2. Mean daily temperature of 40 degrees F. to 32 degrees F.: Cover tops of walls with weather-resistive membrane at end of workday for 24 hours.
 - 3. Mean daily temperature of 32 degrees F. to 25 degrees F.: Install wind breaks if wind exceeds 15 mph. Completely cover masonry with weather-resistive membrane at end of workday for 24 hours.
 - 4. Mean daily temperature of 25 degrees F. to 20 degrees F.: During workday, use heat sources both sides of masonry.

Install wind breaks if wind exceeds 15 mph. At end of day, completely cover walls with insulated blankets or equal protection.

5. Mean daily temperature of 20 degrees F. and below: During workday, use an enclosure for masonry under construction and use heat sources to maintain the temperature above 32 degrees F. Maintain masonry above 32 degrees for 24 hours after construction by enclosure with supplementary heat, by electric blankets, by infrared heat lamps, or other acceptable means.

3.04 PROTECTION

- A. Protect The tops of exterior walls at night and during delays in the work.
- B. Protect from damage all projections, sills, steps, etc.
- C. As soon as rainy, cold or freezing weather sets in, cover all materials as soon as delivered to job site.
- D. Build necessary water and weathertight sheds for storage of lime and cement before material is delivered.
- E. Contractor shall provide adequate bracing of walls during erection to prevent damage due to high winds or other lateral loads until permanent bracing is installed.

3.05 MASONRY CLEANING AND POINTING

- A. Do all work in as clean a manner as possible. Remove excess material and mortar droppings daily. Remove mortar droppings on connecting or adjoining work before final set. Clean CMU within 7 to 14 days after joints are tooled.
- B. Exposed Masonry: At completion of work, point holes in joints of exposed exterior masonry surfaces, completely fill with mortar, tool properly. After pointing has set and hardened, clean surfaces of all excess mortar with a detergent cleaner specifically designed for masonry surfaces.
 1. Diedrich Technologies, Inc.
7373 S. 6th Street
Oak Creek, WI 53154
Phone: 414-764-0058, 800-323-3565
Fax: 414-764-6993
Approved Products:
 - a. Diedrich 200 Lime Solv
 - b. Diedrich 202 New Masonry Detergent
 - c. Diedrich 202V Vana-Stop New Masonry Detergent
 2. Prosoco, Inc.
3741 Greenway Circle, Lawrence, KS 66046.
Phone: (800)255-4255; Fax: (785) 830-9797.
 - a. 600 Detergent
 - b. Concrete Brick Cleaner.
- C. Protect adjacent surfaces from contact with cleaner.
- D. Remove and replace defective materials and correct defective workmanship.

3.06 SITE ENVIRONMENTAL PROCEDURES

- A. Waste Management:
 - 1. Mixing equipment: Minimize water used to wash equipment.
 - 2. Coordinate with manufacturer for take-back program. Set aside scrap and packaging to be returned to manufacturer for recycling into new product.

3.07 WASTE MANAGEMENT

- A. Separate and recycle waste materials in accordance with the Waste Management Plan and to the maximum extent economically feasible.
- B. Fold up metal banding; flatten and place in designated area for recycling.
- C. Collect wood packing shims and pallets; place in designated area.

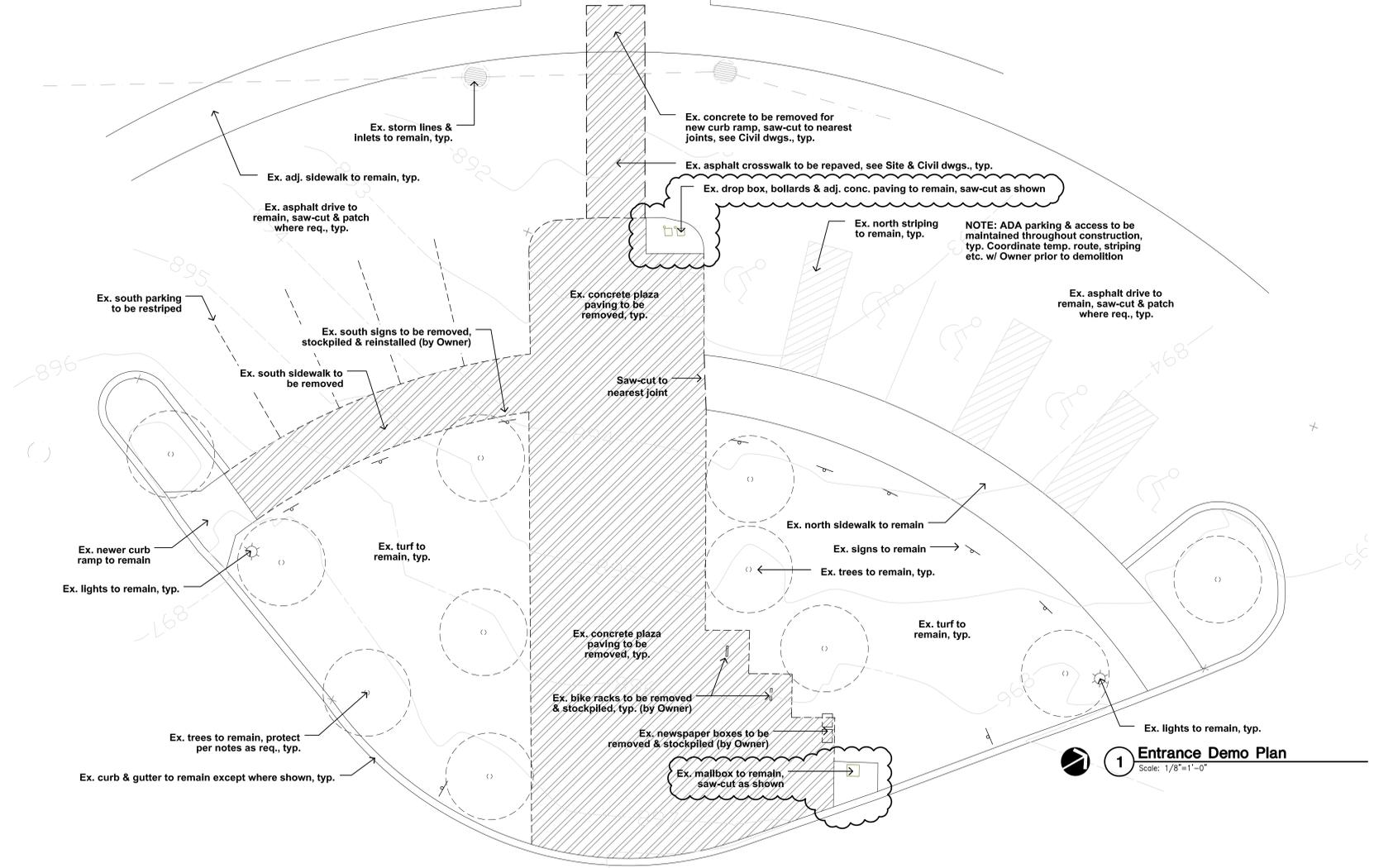
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1 2 3 4 5 6 7

E

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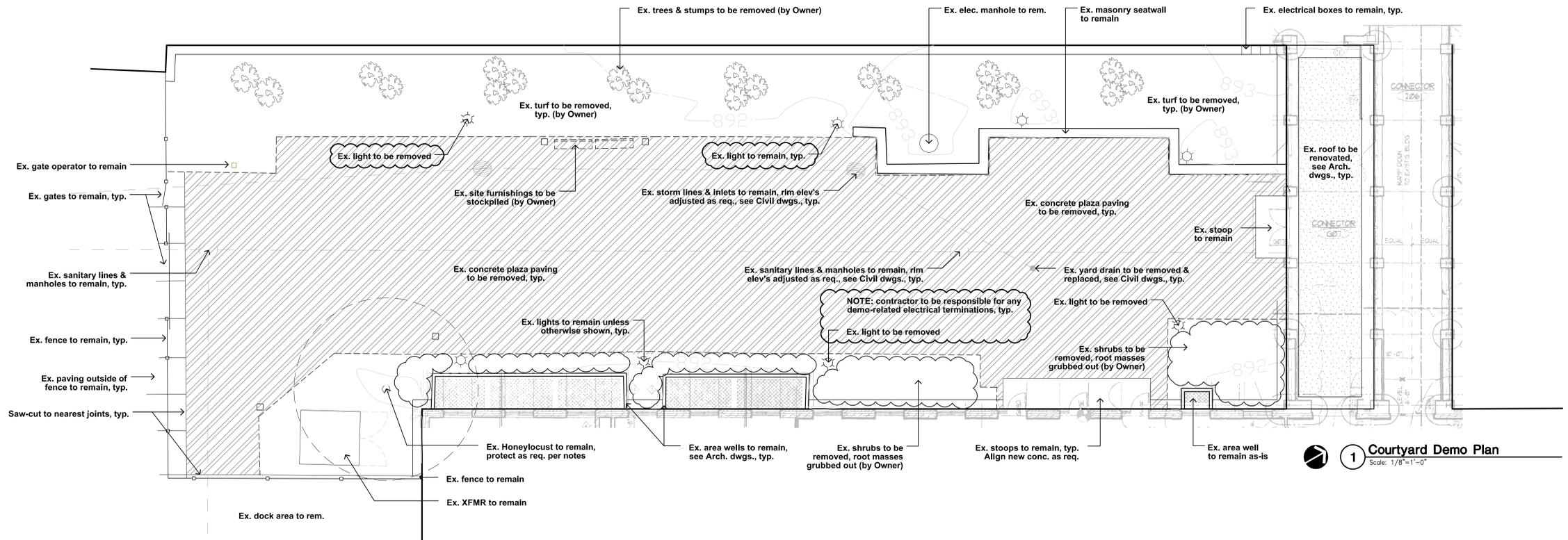
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1 Entrance Demo Plan
Scale: 1/8"=1'-0"

B

A



1 Courtyard Demo Plan
Scale: 1/8"=1'-0"

1 2 3 4 5 6 7

REVISIONS

DATE	DESCRIPTION
08.30.11	Addendum #1

E

D

C

B

A

General Notes

- 1.01 All landscape installation & maintenance to conform with all applicable local codes & ordinances, including (but not limited to) the City of Waukesha and/or Waukesha County Municipal Code & Landscape Standards.
1.02 See Site dwgs. for work limits, scope of construction, hardscape layouts & dimensions. See Civil dwgs. for construction notes, details, grading, stormwater mgmt, site utilities & erosion control. See Landscape dwgs. for landscape plans, coverage/restoration requirements, details, schedules & notes. See Architectural dwgs. for pergola sections/details, green roof information & all building construction.
1.03 Contractor shall provide shop drawings and material submittals of all hardscape & landscape construction elements shown in plan set for Landscape Architect review prior to construction.
1.04 Contractor to provide samples of all colors, finishes & materials (including but not limited to imported topsoil, gravels, mulches, seed mixes et al) for Landscape Architect's approval prior to installation.
1.05 Caution: underground utilities are present on site. The Contractor shall verify location of all above- and below-grade utilities, existing & proposed, public & private, prior to commencement of site construction. If unanticipated above- or below-grade conditions are encountered, notify Client & Landscape Architect prior to proceeding. Coordinate with local public utility locating entity as needed.
1.06 Contractor to verify hardscape layouts prior to construction. Contact Architect, Civil Engineer or Landscape Architect if discrepancies are found.
1.07 Contractor to limit construction traffic to within work limit lines. All adjacent damage shall be the responsibility of the contractor to restore. See Civil drawings for limits of disturbance.
1.08 All written dimensions supersede scaled dimensions. All dimensions are taken from face of curb, wall or existing building foundations.

Site / Landscape Notes

- 2.01 Rough grading, topsoil import/spreading, finish grading & ornamental planting bed preparation shall be By Owner. Contractor shall supply 6" of topsoil in areas where existing concrete is removed and will not be replaced with paving. Verify all existing site and grading conditions prior to construction.
2.02 Contractor is responsible for ensuring that landscape areas drain properly. Coordinate activities with the civil plans. Notify Owner if drainage or moisture problems are encountered.
2.03 Contractors to coordinate with Owner prior to removal of any vegetation. All existing trees to remain shall be protected. Prior to clearing/grubbing, install snow fencing @ 12' radius from trunks or @ driplines, whichever is farther. Fencing is to remain for duration of project. No grading or earthwork to occur in fenced zones except as indicated. No storage, traffic or parking to occur in fenced zones for the duration of the project.
2.04 Most bed edging to be 6" shovel-cut. Some edging to be 3/16" x 4" alum. mill-finish. Permaloc "CleanLine" or "ProSlide", or approved equal. See plan for specific metal bed edging areas.
2.05 Stone mulch areas to be By Owner. 2-3" of decorative stone installed over poly weed barrier. Stone to be 1" dia, washed "Purple Sage" style or app'd equal. Coordinate final material selection with LA.
2.06 Building maintenance strip to be By Owner. 18" sq. pre-cast unit pavers installed over max. 1" masonry sand over min. 4" compacted stone base. Pavers to be "Unigranite" or "Grantex" series, 2" thickness, 7,500 psi min. compressive strength, color/texture TBD selected from standard range. Available from Wausau Tile, Wausau WI, 800-388-8728. Or approved equal.
2.07 Contractor shall provide positive drainage away from all structures for a minimum of 10'.

Hardscape / Amenity Notes

- 5.01 Stone Retaining Walls, alternate bid: Coordinate with front-end spec & bid form. See Site dwgs. for wall layouts & alignments. See Civil dwgs. for TOW/BOW Heights. Stone to be Lannon outcropping stone, buff color, approx. 20-22" thick x 18-24" deep (48" long). Natural top, bottom & face w/ saw-cut joints (if req.) Stones to be buried ave. 4" over min. 8" compacted stone base over compacted subgrade. To be supplied by Halquist Stone, Sussex WI, 822-246-9066. Or approved equal. All seal wall applications to be installed @ 16-18" H.L. Note that sim. stone sealing has been installed elsewhere on County campus. Contractor to work with stone supplier & County LA to ensure that new walls match existing.
5.02 Special paving areas, base bid: See Site dwgs. for all areas of special paving. Integral colored concrete, Scofield "CHROMIX" with appropriate solvent-based sealant, color TBD from standard ranges (assume "C-15 Coachella Sand" for pricing purposes.) To be supplied by LM Scofield, St Charles IL, 630-377-5959. Substitutes will be considered only if submitted & approved prior to 10 days before the close of bidding. All trowel jointing as indicated on the plans. Include three 2x2' color samples for Owner color selection. Also include one 5'x5'5' proof pour to remain on-site for the duration of construction.
5.03 Special paving areas, alternate bids: Coordinate with front-end spec & bid form. Provide pricing for the following alternate special paving systems. Substitutes will be considered only if submitted & approved prior to 10 days before the close of bidding. Assume add'l reinforcing or base course depth as needed to support vehicle traffic in the entrance drop-off lane:
- Unilock "Brussels Block" tumbled concrete pavers. To be supplied by Unilock, Elkhorn WI, 262-742-3890. Pattern "AF" or "O", TBD by Owner, color selected from standard range. Install over 2% modified neoprene tack-coat over 3/4" bituminous setting bed over min. 5" depressed concrete base over min. 6" compacted stone base.
- Wausau Tile "Washed Glass" pavers. To be supplied by Wausau Tile, Wausau WI, 715-359-3121. Color to be selected from standard range (assume WG-50 for pricing purposes.) 24" sq. pavers @ 2" thickness, laid 45 degrees to centerline. Install over latex thin-set mortar over min. 5" depressed concrete base over min. 6" compacted stone base.
- Lithocrete exposed aggregate concrete. To be supplied by JW Schultz, Edgerton WI, 920-723-3457. To be custom blend of cement & aggregate to match granite-fleck panels on Admin Building. Install @ min. 5" thickness (or equivalent) over min. 6" compacted stone base in pedestrian areas, thicker profile as req. in drop-off area. Seal as required. Coordinate with Owner & LA on cement / aggregate selections & samples for approval prior to placement.
5.04 Existing site amenities: As noted on the Demo & Site plans, identify all existing site amenities to be stockpiled prior to construction. Coordinate with Owner to remove, set aside & protect required components for the duration of construction. Relocate and/or reinstall as required to match previously installed condition. NOTE: contractor shall ensure that the mailbox & drop-box are accessible throughout construction.
5.05 Exterior hose bibb extension, alternate bid: Coordinate with front-end spec & bid form. Provide a design-build plumbing solution to affix a permanent exterior water pipe connection on the courthouse to facilitate irrigation of the green roof. This connection shall include (but is not limited to) a removable hose or connector at-grade near the existing hose bibb, segment(s) of permanent pipe (galv. or PVC) affixed to the east facade of the courthouse and a remote hose bibb w/ valve at the connection. All materials shall be durable and non-rusting. Pipes, fittings etc. shall be concealed if possible. Shop drawings shall be provided for Owner review/approval. Contractor shall be responsible for any permits required.

PROJECT

Waukesha County Courthouse Courtyard & Employee Entrance

ISSUANCE AND REVISIONS

Bidding & PC Submittal Set Not For Construction

KEY PLAN

SHEET INFORMATION

REVISIONS

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DATE

08.16.2011

PROJECT NUMBER

110082.00

STUDIO

Site/Landscape Details, Schedules & Notes

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PROJECT
**Waukesha County
 Admin. Courtyard
 and Entrance**

ISSUANCE AND REVISIONS

KEY PLAN

SHEET INFORMATION

REVISIONS

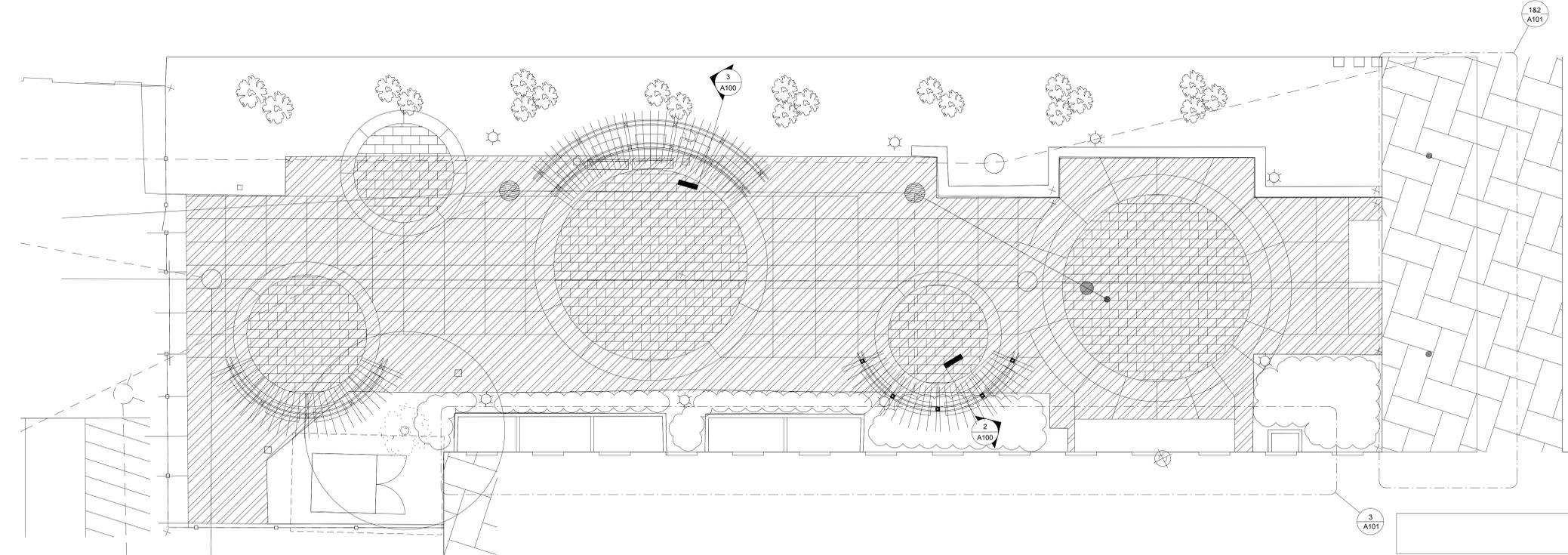
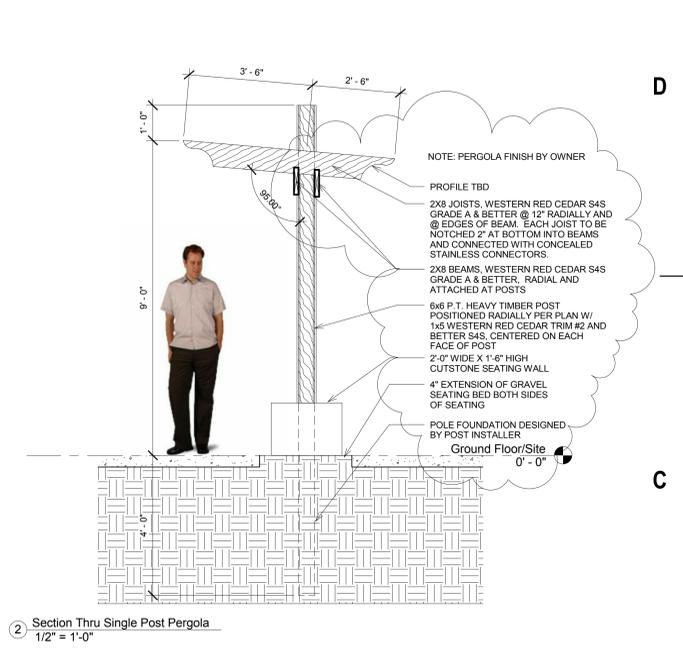
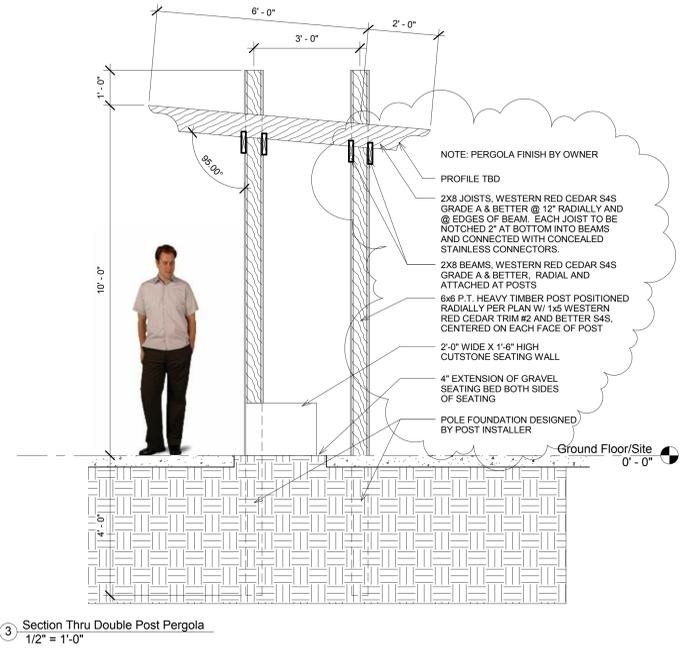
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PROJECT NUMBER 110082.00 STUDIO

Courtyard Plans and Details

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