

TO: ALL PROSPECTIVE BIDDERS  
FROM: Danielle Green, EASTERN ILLINOIS UNIVERSITY  
RE: Amendment # 2 to Bid # BH014792  
DATE: September 12, 2013

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The following comprises Amendment # 2 to the above mentioned bid:

See the attached revised specifications and drawings.

This amendment is now considered a part of the bid specifications and must be signed and submitted with your bid.

The bid due date shall:

☒ Remain the same at September 18, 2013.

☐ Be changed to (insert bid due date).

Signature: \_\_\_\_\_

Print Name & Title: \_\_\_\_\_

Company Name: \_\_\_\_\_

Date: \_\_\_\_\_

Varsity Tennis Courts Repair  
Eastern Illinois University

EIU Project Number 14-5669

Date: REVISED – September 10, 2013

## SCOPE STATEMENT

The work in this project shall provide a new surface for the Varsity Tennis Courts and shall include but shall not be limited to gravel slip-plane, asphalt surface and new court coating and striping and all associated work outlined herein.

The Base Bid work shall include removal and reinstallation of the existing fence surrounding the courts, raising the fence height approximately six inches to accommodate the new surfacing thickness and installation of the gravel slip-plane and asphalt surface over the existing playing surface. The work shall also include removal of the existing tennis net posts and associated footings and installation of new net post sleeves set in concrete footings, and all grading and finish work necessary to return the lawn areas damaged as a result of this work back to the original conditions.

Alternate Bids shall be taken to include a storm drainage system, under-paving drainage, and the complete replacement of the existing fence.

All work performed under this project shall be in accordance with the U. S. Tennis Court & Track Builders Association and the US Tennis Association guidelines and requirements for NCAA, Division I tennis competition and as approved by Eastern Illinois University.

## PREPARATIONS

At the onset of the work, the contractor shall remove the fence fabric, wind/vision fabric, and court nets and shall store on site and shall protect during the course of the work.

The existing bleachers, at four locations, shall be removed from the asphalt pads and placed into on site storage until work is complete. They shall be replaced to their original locations at the conclusion of the work.

The wood framed storage building shall be removed from its current location, placed into on site storage, and replaced to original location on a new surface at conclusion of work.

On site storage areas will be assigned by the Project Manager at start of project and shall be repaired of any damage caused by this work.

## EXISTING CONDITIONS

All existing concrete pads and walks in and around the tennis courts shall be protected during the construction. Any damaged walks and/or pads shall be replaced at the contractor's expense, without additional cost to the owner.

The Owner will remove the shrubs at the fence northeast of the tennis courts where the new storm manhole is to be installed.

## FENCE

Under the Base Bid, the contractor shall remove all fencing, wire fabric, and nylon vision/wind screen surrounding the tennis courts and shall store and protect during the construction process. Storage shall be elevated to keep fabric out of the grass and dirt.

At the conclusion of the work, the contractor shall re-install the fence and vision/wind screen to their original configuration and shall include adjusting the line posts and rails to accommodate the new height requirement (approximately 6" higher than existing conditions). The corner posts appear to have the height necessary to allow for the new fence height, but it shall be the contractor's responsibility to survey the conditions, devise a plan to raise the line posts, and provide a secure installation that will withstand all reasonable wind conditions. The contractor shall provide shop drawings showing how the posts will be extended to the Owner for approval prior to proceeding with that portion of work.

Fencing at the southwest and northeast corners of the work area, attached to the tennis court fencing, may be removed as necessary and rolled back to permit access to the construction.

All fencing removed or taken loose for the purposes of this work shall be re-installed to equal or better condition as before construction started.

## NET

The existing nets shall be removed and placed into storage and protected by the contractor.

The existing net posts shall be removed entirely, including foundations, and new posts set to the new heights required by this project prior to paving operations. The Owner will provide new net posts and sleeves to the contractor for installation. The existing net posts and foundations shall be removed from the site.

## EXISTING ASPHALT REPAIRS

All cracks larger than one quarter of an inch in width found in the existing asphalt surfacing shall be routed and cleaned the full depth of the asphalt. All cracks shall be filled with a cement based, flowable fill material level with the existing asphalt surface. Contractor shall be responsible for all quantities required for this work.

## NEW ASPHALT COURT SURFACE

Install a gravel slip-plane of 3" aggregate base course Type A over the existing tennis court surface. This base course shall be machine placed and machine rolled. Base course aggregate shall be CA-06, crushed stone, water mixed to achieve the compaction required for this work.

Install a 3" asphalt surface over the base material in two lifts consisting of 1 1/2" hot mix base course and 1 1/2 hot mix asphalt surface course. Apply an SS1-HP tack coat or equivalent to the base course prior to installing the surface coat. Asphalt shall be compacted to 92.0 to 97.0 per cent compaction.

Asphalt mix shall not use crushed limestone that contains iron as this will cause rust to bleed through the new coating. If this is not possible, the surface shall be pre-treated prior to surfacing to insure rust spots will not develop.

Drainage of new playing surface shall be from north to the south and follow the original slope. The minimum slope of the asphalt shall be 0.83% and the maximum slope shall be 1%. Cross slope shall be level.

The perimeter of the new surfacing shall be sealed with asphalt, beveled at a 45 degree angle to contain the gravel slip-plane and provide a finished edge to the courts. The asphalt curb along the north side of the courts shall be removed and the new asphalt shall be blended to the roadway surface.

At the southeast corner of the courts, there are two electrical/telephone boxes in the ground. EIU will remove these boxes and re-work the electrical in this area during the course of this work.

Resurfacing shall include the bleacher pads and the wood storage shed location. Drawings have the approximate dimensions for these areas. All asphalt paving shall be installed to insure drainage away from the court areas. Install a 4" minimum compacted gravel base under the wood shed location prior to paving. Gravel is not required at the bleacher locations. Provide transition ramps from the new surface to the existing surfaces of walkway at a slope not to exceed 1 inch per foot.

## COURT SURFACING

Court surfacing system shall consist of a multiple coats application, as directed by the manufacturer of the coating system, over the entire court surface to provide a uniform and level playing surface. Colors shall be selected by the Owner from standard color charts provided by the contractor for this purpose.

Thoroughly clean the asphalt surface and install color coat surfacing over the entire area within the fence. Application shall be performed by an operator with a minimum of five years' experience in this

work. Each application shall repair deviations in the new surface and any shrinkage cracking shall be repaired before proceeding with further applications. The completed surface shall be free from ridges and squeegee marks and shall be uniform in texture.

At completion of surfacing, court surface shall be flooded with water and if after one hour at 70 degree temperature in sunlight, ponding or birdbaths remain, these areas shall be repaired. Any pool remaining covering a nickel (5 cents, American) shall be considered unacceptable and shall be repaired to eliminate ponding.

New court marking shall be installed similar to the existing courts. Playing lines shall be applied in two coats of acrylic line paint and shall be applied accurately in accordance with the U.S.T.C. & T.B.A. Lines shall be taped prior to painting to provide razor sharp edges on the paint.

## ALTERNATE BIDS

### DRAINAGE – Alternate Bid #1 (Add)

Under this Alternate Bid, the contractor shall install a drainage system that will include but shall not be limited to a 4' diameter manhole, PVC drainage piping, and two lateral trench drains. All work shall include but shall not be limited to all associated materials, labor, services, and equipment necessary to provide a complete and operational system as shown on the drawings.

Install a 4' diameter manhole over the existing 18" diameter drainage tile which is located at the edge of the existing asphalt drive on the north side of the courts. Any damage done to the drive surface in the course of this work shall be repaired. The existing 18" drain tile flow line is approximately 6' below existing grade. Contractor shall verify this depth and adjust as necessary. Install lid/ring to be level with the existing grade and as approved by Project Manager. Seal the existing tile on the inlet and outlet of the new manhole and the new tile entering the manhole from the south.

Main sewer and lateral tiles shall be of sizes noted on the drawings for Alternate 1 and shall be installed to slope to the manhole for positive drainage. The main sewer shall be type SDR 26 PVC, smooth-walled drainage piping and fittings and shall be installed a minimum of 30" below grade.

Trench drainage shall be located on the north side of the center dividing fence and on the north side of the south fence of the court complex. The drains shall be ACO Klassik Drain Model K100S, McNichols Trench Drain Model 601, or Zurn Model Z882, light duty. Pre-formed drains shall be in 48 inch sections and shall be of constant width for entire run across the courts. Provide slotted ductile iron grates, with slots perpendicular to the drain body. All drains shall be installed per manufacturer's written instructions and shall include all accessories including the alignment clips and chairs. Contractor shall provide all items not included by the manufacturer. Pre-manufactured trench drains shall have a minimum slope of 0.6% and shall be installed to drain from the west to the east. Connect all sections divisions with PVC piping and tie into the north/south sewer line to the east of the courts.

Provide four 4" connection points as noted on the plans for future drain tile connections.

Provide shop drawings to University for approval prior to ordering materials.

Repair all areas disturbed by the installation of this work to the original condition or better.

#### DRAINAGE – Alternate Bid #2 (Add)

Under this Alternate Bid, the contractor shall install a drainage system that will include but shall not be limited to a 4' diameter manhole, PVC drainage piping, and four under-asphalt lateral drains. All work shall include but shall not be limited to all associated materials, labor, services, and equipment necessary to provide a complete and operational system as shown on the drawings.

Install a 4' diameter manhole over the existing 18" diameter drainage tile which is located at the edge of the existing asphalt drive on the north side of the courts. Any damage done to the drive surface in the course of this work shall be repaired. The existing 18" drain tile flow line is approximately 6' below existing grade. Contractor shall verify this depth and adjust as necessary. Install lid/ring to be level with the existing grade and as approved by Project Manager. Seal the existing tile on the inlet and outlet of the new manhole and the new tile entering the manhole from the south.

Main sewer and lateral tiles shall be of sizes noted on the drawings for Alternate 2 and shall be installed to slope to the manhole for positive drainage. The main sewer shall be type SDR 26 PVC, smooth-walled drainage piping and fittings and shall be installed a minimum of 30" below grade.

Install four lateral drainage lines below the surface of the tennis courts which shall include but shall not be limited to the excavations, drainage tile, fittings, and associated accessories for the drainage system shown on the accompanying drawings. Drainage tile system shall be of the sizes indicated and shall be standard corrugated, perforated drainage tile with smooth interior walls and covered with silt sock. Install laterals with sufficient grade to properly drain. Provide shop drawings for review prior to proceeding.

Provide two 8" connection points as noted on the plans for future trench drain connections.

Saw-cut the existing 3" asphalt surface a minimum of 8" wide and install 4" diameter perforated lateral tiles in four locations on existing courts, two inches (2") into the existing 4" gravel base material. Extend tiles to the storm main on the east side of the tennis courts and connect using 45 degree fittings. Surround new tile with CA-06 gravel aggregate.

As a part of this work, a section of concrete walk on the north side of the baseball stadium, noted on the drawings, shall be removed and the 8" wide curb cut and removed and an in-slab drain (5.25"w x 3.5"d min.) shall be installed. The drain may be constructed from formed concrete or a pre-manufactured drain as identified above in Alternate #1, may be used. The grate installed in the concrete shall be recessed to be flush with the walk surface and shall have 1"x1" steel angle bearing ledge. The grate, whether formed with the concrete or part of the pre-manufactured system, shall be ADA compliant,

complying with the minimum widths and orientation for grates in a walkway. Submit shop drawings for approval prior to ordering.

Provide shop drawings to the University for approval prior to ordering materials.

Repair all areas disturbed by the installation of this work to the original condition or better.

#### DRAINAGE – Alternate Bid #3 (Add or Deduct)

This alternate shall state the cost to provide both Alternate #1 and Alternate #2.

#### FENCING – Alternate Bid #4 (Add or Deduct)

Under this Alternate Bid, the contractor shall completely replace the existing fencing around and through the tennis courts. The new work shall match the existing fencing system's heights, materials, wire fabric, posts, rails, gates, and all accessories in their entirety to make a complete fence enclosure as is currently on site. This fence shall be installed to the elevations of the new court surface.

As a part of this work, the fence contractor shall re-install the existing vision/wind fabric to match the existing locations and heights.

#### WARRANTY

Contractor shall warrant the work for a period of one (1) year against any failure to the paving, court surfacing, or any item/s associated with the details of this project. Prior to the expiration of the one year warranty period, on a date agreed to by the contractor and the University, the contractor and coatings subcontractor shall visit the site with the Owner. Any defects that have become apparent since Substantial Completion shall be corrected as a part of the warranty work. This work may include crack repair and new coating/ striping. The date of Substantial Completion, as agree to by the Contractor and University, shall constitute the start of the one year Contractor warranty period.

#### MAINTENANCE AGREEMENT

It is the desire of the University to establish an annual maintenance agreement to provide service to the University to properly take care of the new tennis court surface. This agreement shall establish an initial three (3) year period of annual maintenance with provisions for annual renewal for a period not to exceed seven (7) years. The Owner, as well as the maintenance provider, may decline renewal of the maintenance contract by giving written notice at least thirty (30) days prior to the contract expiration date.

The three year agreement shall begin at the conclusion of the one year contractor's warranty period and include annual site visits to evaluate the condition of the playing surface and to recommend any maintenance that should be performed. The date of the site visit shall be agreed upon by the contractor and the University prior to Substantial Completion. It is the University's intent to establish an

annual visit for the evaluation and allow adequate time to get any required work performed prior to the onset of the tennis season, dates of which will be provided by the University.

This three year Maintenance Agreement shall include the cost of one re-coating & striping application, which shall be performed in the second year of the three year agreement, unless deemed acceptable to wait until the third year. Maintenance work required, in addition to the re-coating/striping noted above, shall be outlined and estimated by the contractor in a written proposal to perform the work. If the University agrees to proceed with the recommended work, a purchase order will be issued by the University, and the contractor shall perform said work immediately upon receipt of the purchase order and be completed prior to the onset of the tennis season as defined by the University.

The annual service agreement shall be an extension of the three year agreement. By separate line item on this bid form, the contractor shall identify the cost to visit the site, make an evaluation of the condition of the courts, and provide a written proposal to perform this work. If the University agrees to proceed with the recommended work, a purchase order will be issued by the University, and the contractor shall perform said work immediately upon receipt of the purchase order and be completed prior to the onset of the tennis season as defined by the University.

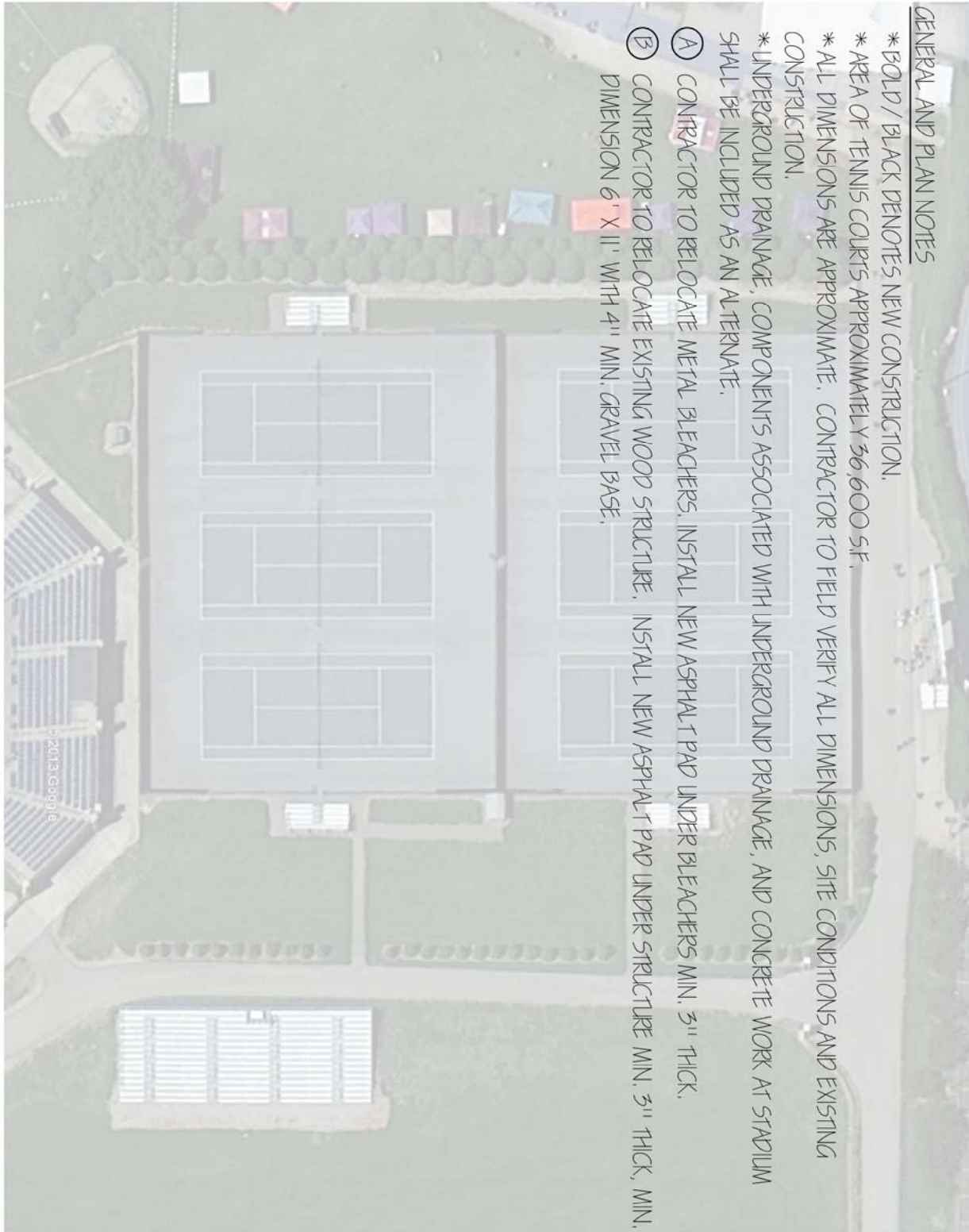
The contractor shall include as a separate line item the cost of this maintenance agreement for the first three years and a separate line cost for the annual renewals thereafter.

END



GENERAL AND PLAN NOTES

- \* BOLD / BLACK DENOTES NEW CONSTRUCTION.
- \* AREA OF TENNIS COURTS APPROXIMATELY 36,600 S.F.
- \* ALL DIMENSIONS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, SITE CONDITIONS AND EXISTING CONSTRUCTION.
- \* UNDERGROUND DRAINAGE, COMPONENTS ASSOCIATED WITH UNDERGROUND DRAINAGE, AND CONCRETE WORK AT STADIUM SHALL BE INCLUDED AS AN ALTERNATE.
- (A) CONTRACTOR TO RELOCATE METAL BLEACHERS. INSTALL NEW ASPHALT PAD UNDER BLEACHERS MIN. 3" THICK.
- (B) CONTRACTOR TO RELOCATE EXISTING WOOD STRUCTURE. INSTALL NEW ASPHALT PAD UNDER STRUCTURE MIN. 3" THICK, MIN. DIMENSION 6' X 11' WITH 4" MIN. GRAVEL BASE.



FACILITIES PLANNING  
& MANAGEMENT

600 LINCOLN AVENUE  
CHARLESTON, IL 61920  
(217) 581-3520

## 2013 TENNIS COURT DRAINAGE PROJECT

DATE:  
2013-09-09

JOB NUMBER:

DRAWN: ETW

GROSS SQUARE FEET:

TOTAL NO. OF SHEETS:  
1 OF 7

CHECKED:

BUILDING NO.

**00**

SHEET NO:

**T1.0**



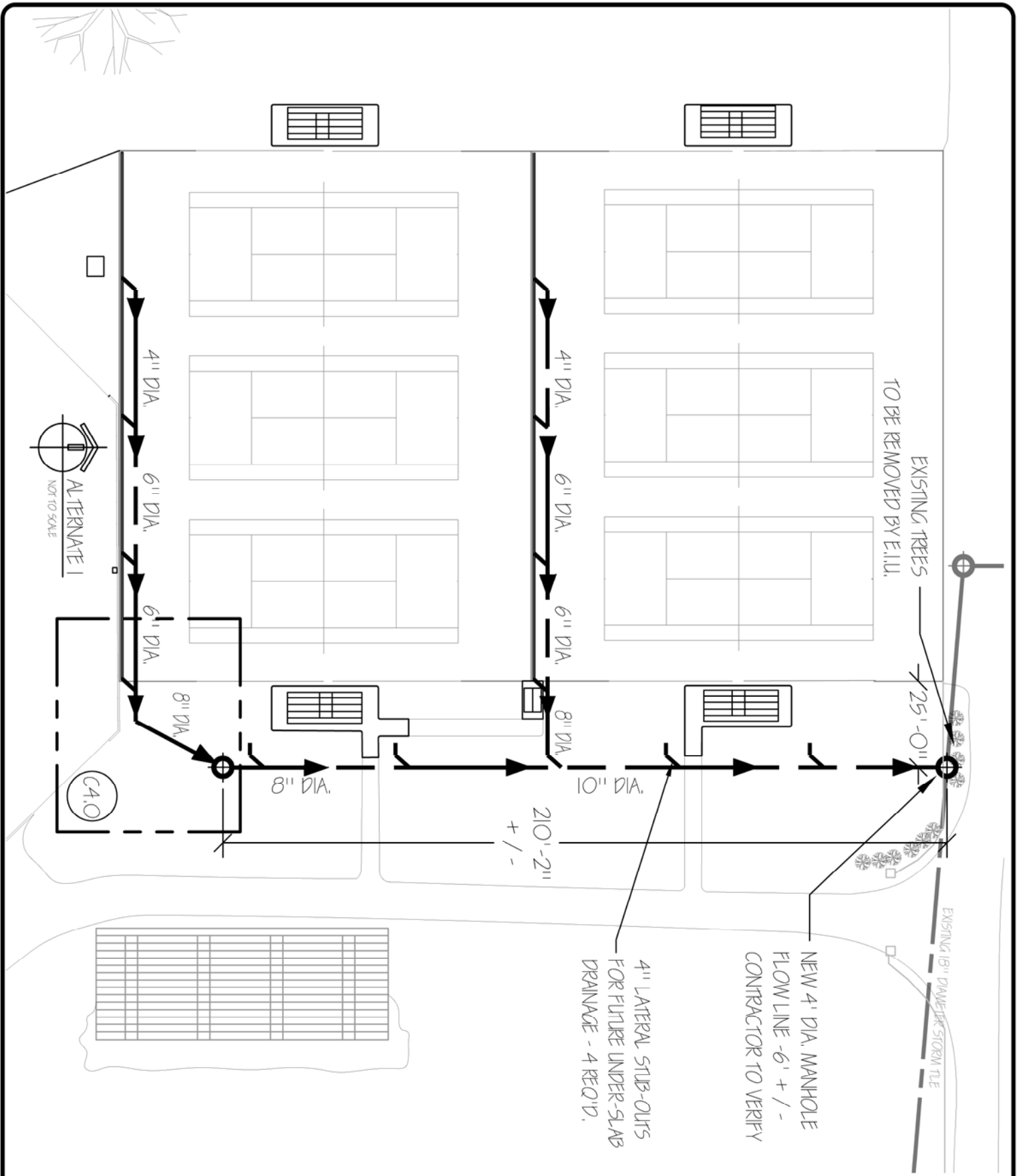
**600 LINCOLN AVENUE  
CHARLESTON, IL 61920  
(217) 581-3520**

# 2013 TENNIS COURT DRAINAGE PROJECT

DRAWN: ETW

**/ CHECKED:**

# C1.0



**FACILITIES PLANNING  
& MANAGEMENT**

600 LINCOLN AVENUE  
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(217) 581-3520

# 2013 TENNIS COURT DRAINAGE PROJECT

DATE:  
2013-09-09

JOB NUMBER:

DRAWN: ETW CHECKED:

GROSS SQUARE FEET:

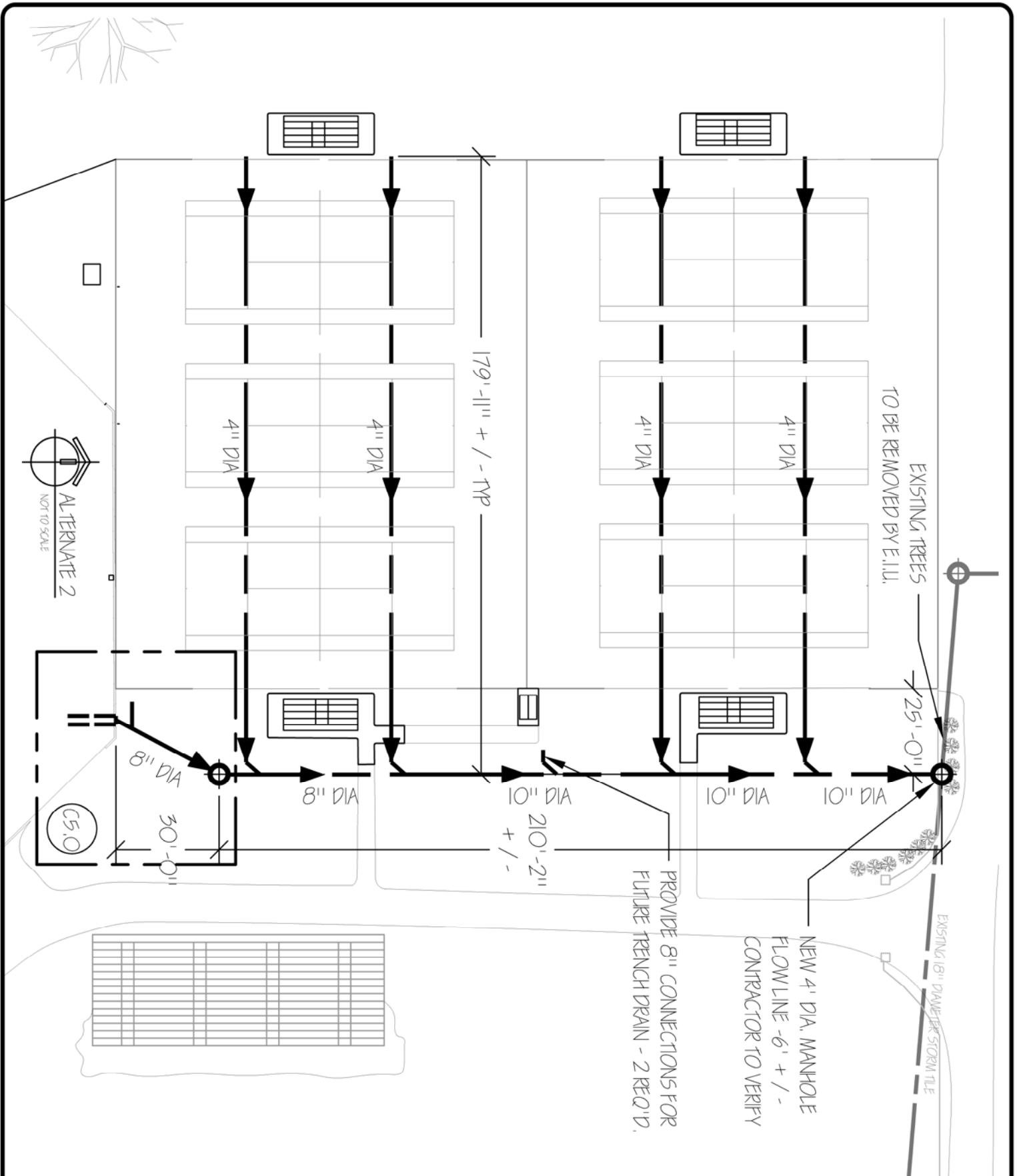
TOTAL NO. OF SHEETS:  
3 OF 7

BUILDING NO.

**00**

SHEET NO:

**C2.0**



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600 LINCOLN AVENUE  
CHARLESTON, IL 61920  
(217) 581-3520

# 2013 TENNIS COURT DRAINAGE PROJECT

DATE:  
2013-09-09

JOB NUMBER:

DRAWN:

ETW CHECKED:

GROSS SQUARE FEET:

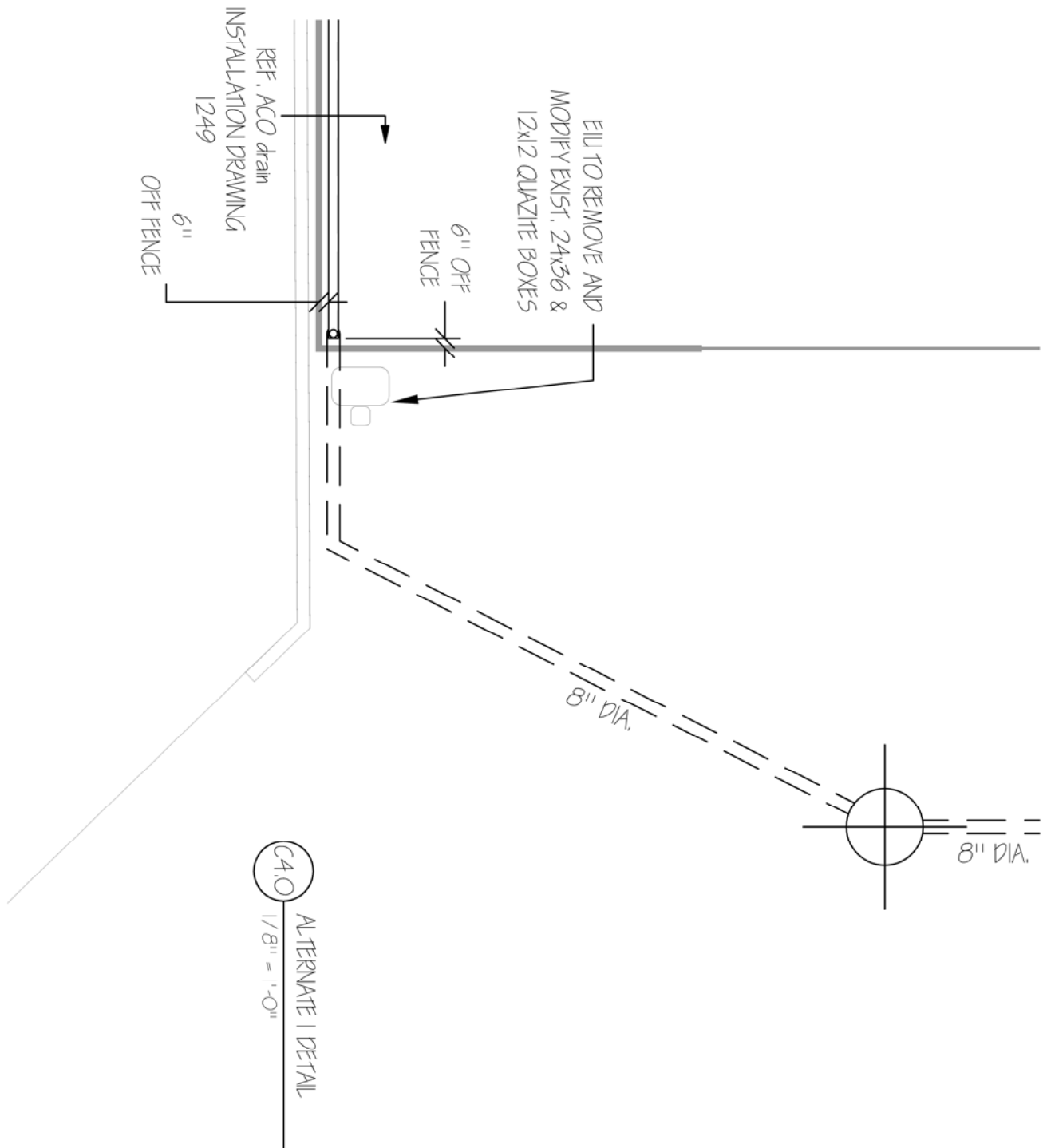
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4 OF 7

BUILDING NO.

00

SHEET NO:

C3.0



C4.0  
1/8" = 1'-0"  
ALTERNATE 1 DETAIL



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CHARLESTON, IL 61920  
(217) 581-3520

# 2013 TENNIS COURT DRAINAGE PROJECT

DATE:  
2013-09-09

JOB NUMBER:

DRAWN:

GROSS SQUARE FEET:

TOTAL NO. OF SHEETS:  
5 OF 7

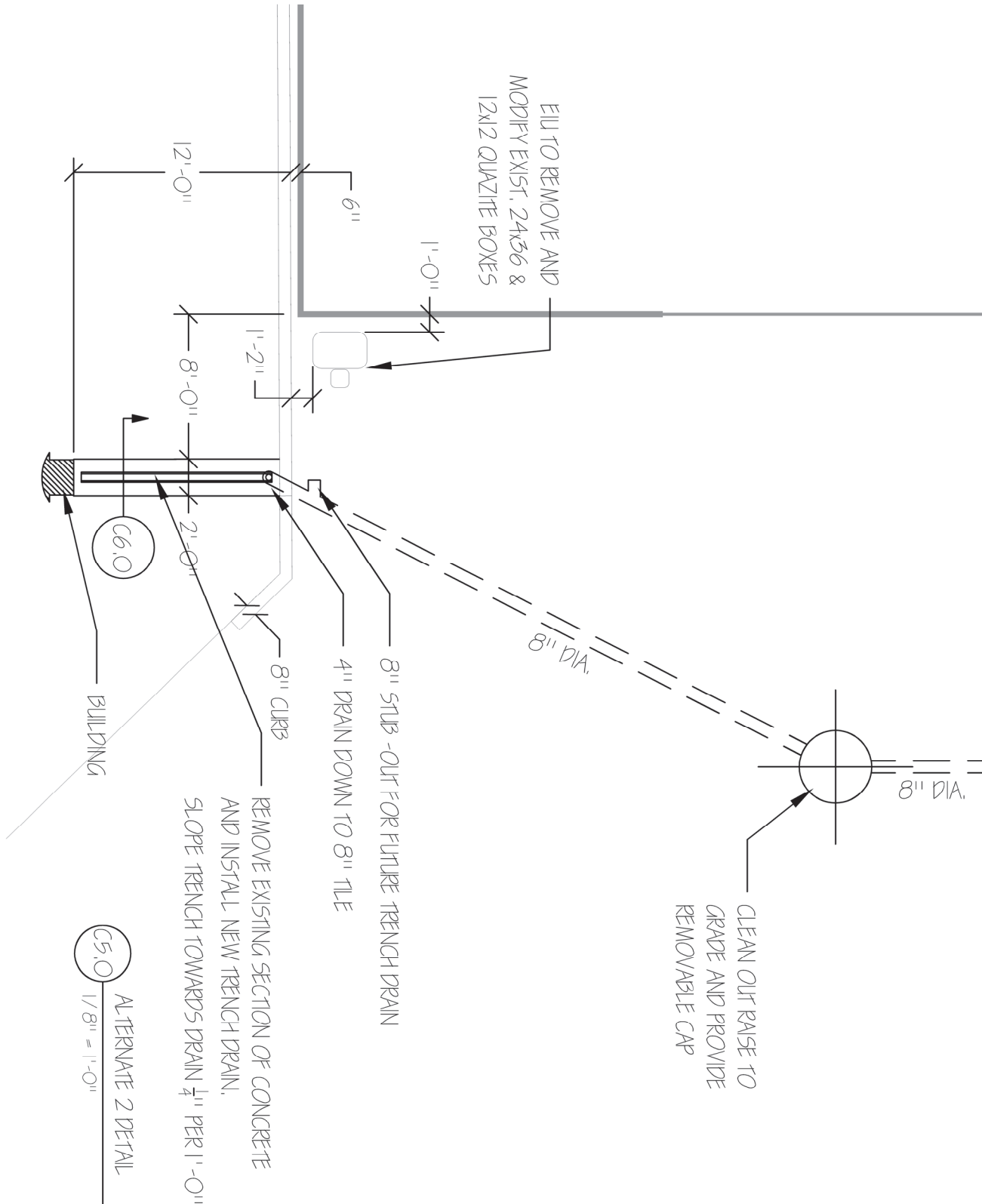
CHECKED:

BUILDING NO.

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SHEET NO:

C4.0



**FACILITIES PLANNING  
& MANAGEMENT**

600 LINCOLN AVENUE  
CHARLESTON, IL 61920  
(217) 581-3520

# 2013 TENNIS COURT DRAINAGE PROJECT

DATE:  
2013-09-09

JOB NUMBER:

DRAWN:

ETW

CHECKED:

GROSS SQUARE FEET:

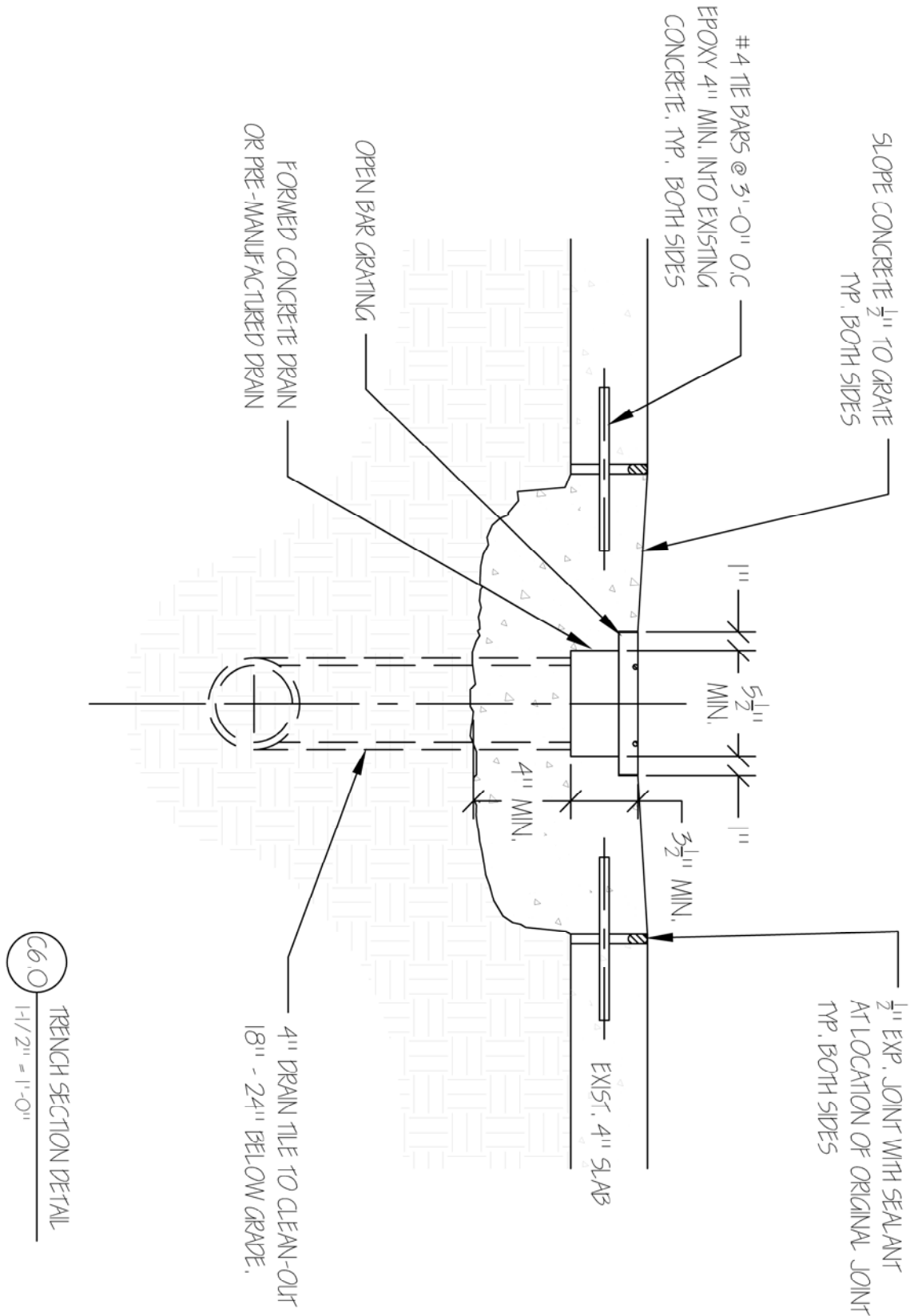
TOTAL NO. OF SHEETS:  
6 OF 7

BUILDING NO.

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SHEET NO:

C5.0



FACILITIES PLANNING  
& MANAGEMENT

600 LINCOLN AVENUE  
CHARLESTON, IL 61920  
(217) 581-3520

# 2013 TENNIS COURT DRAINAGE PROJECT

DATE:  
2013-09-09

JOB NUMBER:

DRAWN:

ETW

CHECKED:

GROSS SQUARE FEET:

TOTAL NO. OF SHEETS:  
7 OF 7

BUILDING NO.

00

SHEET NO:

C6.0





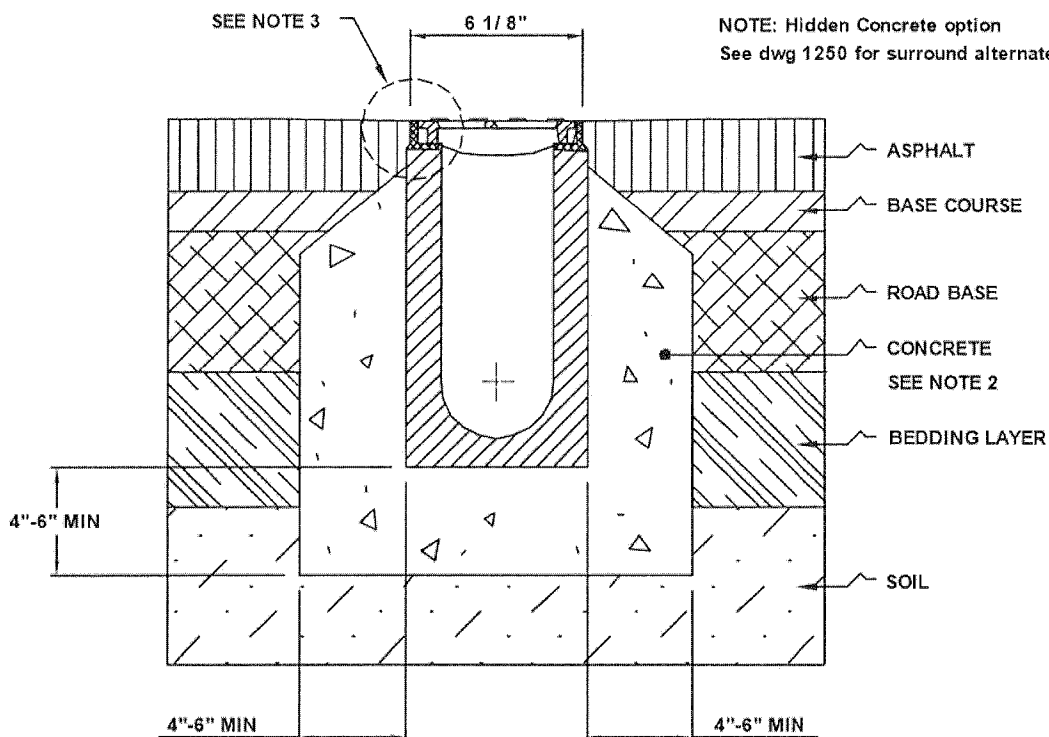
## INSTALLATION DRAWING

ACO Polymer Products Inc.  
P.O. Box 245  
Chardon, OH 44024  
PH. 440-285-7000  
FX. 440-285-8517  
e-mail: sales@acousa.com

DRWG# 1249 Date. 1.04.01

### S100K: Load Class A-C : Asphalt

WWW.ACOUSA.COM



#### NOTES:

1. It is necessary to ensure the minimum dimensions shown are suitable for the existing ground conditions. *Engineering advice may be required.*
2. A minimum concrete strength of 3000 PSI is recommended. The concrete should be vibrated to eliminate air pockets.
3. The finished level of the concrete surround must be approx. 1/8" above the top of the channel edge.
4. Refer to ACO'S latest installation instructions for complete details.



## SPECIFICATION CLAUSE

ACO Polymer Products Inc.  
P.O. Box 245  
Chardon, OH 44024  
PH: 440-285-7000  
FX: 440-285-8517  
e-mail: sales@acousa.com

DRWG# 1249 Date. 1.04.01

### S100K Trench Drain System

WWW.ACOUSA.COM

The surface drainage system shall be polymer concrete S100K channel system with ductile iron rail and grate as manufactured by ACO Polymer Products, Inc., Chardon, Oh.

Channels will be manufactured from polyester resin polymer concrete with an integrally cast in ductile iron rail and supplied with ductile iron grates.

The system shall be 4 inches (100mm) nominal inside width with a 6.3 in. (160mm) overall width and a built-in slope of 0.6 %. All channels shall be interlocking with a male/female joint. Each channel shall have a 4.5 in. (114mm) schedule round and 6 in. (150mm) oval drill-out on the bottom for vertical connection with underground piping.

The complete drainage system shall be by ACO Polymer Products, Inc. Any deviation or partial system design and/or improper installation will void any and all warranties provided by ACO Polymer Products, Inc.

The channel system shall be independently certified to withstand loadings to load class F (DIN19580). Grates shall be secured using 'Powerlok' Boltless locking system. Grate and Locking system shall be fully removable from channel.

Polymer Concrete shall have material properties of: compressive strength range between 14,000-14,500 psi, flexural strength between 3600-4500 psi, tensile strength of 1500 psi. The material water absorption rate shall not exceed 0.1 % by weight and shall be resistant to prolonged salt exposure, repetitive frost cycles and chemically resistant to dilute acids and alkalis.

The system shall be installed in accordance with the manufacturer's instructions and recommendations.