



BLACK HAWK COUNTY  
SOLID WASTE MANAGEMENT COMMISSION

**REQUEST FOR DESIGN-BUILD PROPOSALS  
FOR  
THE BLACK HAWK COUNTY LANDFILL  
SCALE HOUSE MODIFICATION AND SCALE REPLACEMENT  
PROJECT**

**Submittal Deadline:  
10:00 AM – January 18, 2025**

## Table of Contents

Notice to Bidders.....	Page 3
Section 1. Project Introduction.....	Page 5
Section 2. Project Description.....	Page 5
Section 3. Project Schedule.....	Page 6
Section 4. Scope of Work.....	Page 6
Responsibilities of Contractor.....	Page 7
Progress Payments.....	Page 7
Scoping and Pre-Construction Meetings.....	Page 7
Design Requirements.....	Page 7
Construction Requirements.....	Page 8
Project Close Out.....	Page 8
Section 5. Pre-Proposal Meeting.....	Page 9
Section 6. Addendum.....	Page 9
Section 7. Proposal Response Requirements.....	Page 10
Section 8. Selection Process.....	Page 11

### Attachment A. As-Built Conditions

1. Scale Improvement Construction Drawings, May 2008, AECOM
2. Scale and Access Road Improvements Construction Drawings, June 2006, AECOM
3. Sale and Small Loads Facility Construction Drawings, April 1995, AECOM

### Attachment B. Specifications for Vehicle Scales

### Attachment C. Schedule B - Contractor Insurance Specification

### Attachment D. Proposal Forms

### Attachment E. Draft Performance, Payment, and Maintenance Bond

Electronic Copies of this RFP are available at [Wastetrac.org/](http://Wastetrac.org/)

**NOTICE TO BIDDERS  
BLACK HAWK COUNTY SOLID WASTE MANAGEMENT COMMISSION  
PUBLIC IMPROVEMENT PROJECT**

**DESIGN-BUILD SERVICES FOR THE  
LANDFILL SCALE HOUSE MODIFICATION AND SCALE REPLACEMENT**

**Time and Place for Filing Sealed Proposals.** Sealed bids for the work comprising each improvement, as stated below, must be filed before 10:00 a.m. January 21, 2025, at the reception desk of the Iowa Northern Region Council of Governments (INRCOG), 229 East Park Ave., Waterloo, Iowa, 50703

**Time and Place Sealed Proposals Will be Opened and Considered.** Sealed proposals will be opened, and bids tabulated at 10:00 a.m. on January 21, 2025, in the INRCOG Board Room, Third Floor, 229 East Park Avenue, Waterloo, Iowa, 50703.

A Public Hearing will be held on the Plans and Specifications and proposed Form of Contract at 10:00 a.m. on December 19, 2025, at the City Council Chambers at City Hall, 715 Mulberry Street, Waterloo, Iowa, 50703.

A Regular Meeting of the Commission will be held at 10:00 a.m. on January 23, 2025, where Bid Proposals will be acted upon at that time or at such time as may then be fixed.

**Time for Commencement and Completion of Work.** Work on each improvement shall be commenced within 10 days after the Notice to Proceed has been issued.

**Bid Security.** Each bidder shall accompany its bid with bid security as security that the successful bidder will enter into a contract for the work bid upon and will furnish after the award of the contract a corporate surety bond, acceptable to the governmental entity, for the faithful performance of the contract, in an amount equal to one hundred percent of the amount of the contract. The bid security shall be in the amount of ten percent (10%) of the amount of the contract. It shall be in the form of a cashier's check or certified check drawn on a state-chartered or federally chartered bank, or an accredited share draft drawn on a state-chartered or federally chartered credit union, or the governmental entity may provide for a bidder's bond with corporate surety satisfactory to the governmental entity. The bid bond shall contain no conditions except as provided in this section.

**Construction Schedule.** Each bidder shall accompany its bid with a Construction Schedule.

**Contract Documents.** Complete digital project bidding documents are available at [www.wastetrac.org](http://www.wastetrac.org) and at [www.questcdn.com](http://www.questcdn.com). You may download the digital plan documents by inputting Quest project #9456491 on the website's Project Search page. Please contact Questcdn.com at 952-233-1632 or [info@questcdn.com](mailto:info@questcdn.com) for assistance in free membership registration, downloading, and working with this digital project information.

The Bidding Documents are on file for inspection at the Reception Desk of the Iowa Northland Regional Council of Governments (INRCOG), 229 East Park Avenue, Waterloo, Iowa, 50703.

**Preference for Iowa Products and Labor.** By virtue of statutory authority, preference will be given to products and provisions grown and coal produced within the State of Iowa and to Iowa domestic labor to the extent lawfully required under Iowa statutes.

**Sales Tax.** The bidder should not include sales tax in its bid. A sales tax exemption certificate will be available for all materials purchased for incorporation into the Project.

**General Nature of Public Improvement.** This contract comprises design-build services for modifying the Black Hawk County Landfill's scale house and replacing the outbound truck scale.

The BASE BID shall include the design of a scale house remodel utilizing the existing footprint to meet project goals, the removal and disposal of the existing scale, the procurement and installation of a 70-ft long, 14-ft wide concrete platform, pit-less motor scale, and associated concrete foundation and approach work, and the configuration of the new scale with the existing WasteWORKS system.

ALTERNATE BID PACKAGE shall include the base bid, removing the remodel portion, substituting with the demolition, and constructing an addition to the scale house.

Prospective bidders are required to bid on ALL packages. After the bid opening, the OWNER will decide which package to pursue.

**Pre-Proposal Meeting.** Each prospective bidder is encouraged to attend the Pre-Bid Construction Conference, held at **10:00 on January 06, 2025**, at the Landfill Shop, Black Hawk County Sanitary Landfill, 1509 East Washburn Road, Waterloo, Iowa 50701. Attendance by all prospective bidders is not mandatory but highly recommended.

On the following date, **December 10, 2025**, this Notice was posted at the following locations:

1. Master Builders service.
2. Qwest CDN construction lead generating service.
3. The BHCSWMC Website. <http://wastetrac.org/>

**REQUEST FOR PROPOSALS  
FOR DESIGN-BUILD PROPOSALS FOR  
THE BLACK HAWK COUNTY LANDFILL SCALE HOUSE REMODEL AND  
SCALE REPLACEMENT PROJECT**

**1. INTRODUCTION**

The Black Hawk County Solid Waste Management Commission (Commission or Owner) is issuing this Request for Proposals (RFP) to solicit proposals from experienced Contractors to design and modify the existing Scale house and remove and replace an existing truck scale. Qualified Contractors are invited to submit a proposal in the format outlined in this RFP.

The Commission is an inter-governmental agency organized under Iowa Code Chapter 28E and overseen by a five (5) member Board. Membership consists of the Cities within and the County of Black Hawk, Iowa. The Commission's charge is to manage solid waste generated within its service area, which includes the municipalities and the rural population within Black Hawk County. The Commission owns and contracts the operations of a 200,000-ton-per-year municipal solid waste landfill, yard debris composting, and small-load drop-off facilities. It is self-supported through user fees it collects.

**2. PROJECT DESCRIPTION**

The intent of this RFP for the Design-Build of the Black Hawk County Landfill Scale House Modification and Scale Replacement Project (Project) is to select a qualified and competent Contractor (Contractor) to provide design and build services to modify the existing scale house and replace the existing 70-foot truck scale. The Project is located at the Black Hawk County Landfill, 1509 East Washburn Road, Waterloo, Iowa.

This scale house modification portion of the Project intends to facilitate the transactions between customers and the scale house attendant so the customer does not need to get out of the vehicle, eliminate the need for the catwalk around the scale, and increase storage space. The intent of the remodel is to utilize the existing enclosure with minor structural modification. The alternate bid will assume the structure's demolition and construction of an addition with an expanded footprint. Attachment A contains the As-Built Site Condition Construction Plans.

The Contractor will be required to remove the existing 70-foot by 10-foot above-ground truck scale and demolish and modify the existing foundation to meet the new scale's requirements, including removing or modifying the approaches and relocating utilities as needed. The Contractor shall add bollards and other structures to address fall hazards. The Contractor will permit and install a new 70-foot by 14-foot truck scale. Attachment A contains the As-Built Site Condition Construction Plans. Attachment B contains the scale specifications.

The Facility will remain open and in operation during construction. The contractor must work with the Owner and Contract Operator to minimize the impact on operations. The Facility is open Monday through Friday, 7:30 to 4:30, and Saturday, 7:30 to 12:30.

The estimated budget for this project is \$350,000. Understandably, this budget may prevent some features from being included in the Scope of Work and Project Summary. The selection of features to be included in the design depends upon the discretion of the vendor submitting the proposal, but they must be the same or similar features as noted in this RFP.

The project Owner Representative (OR) is John Foster, Administrator BHCSWMC, 319-210-8860, [Jfoster@wastetrac.org](mailto:Jfoster@wastetrac.org), PO Box 208, Waterloo, IA 52705.

### 3. SCHEDULE

The tentative RFP schedule is as follows:

December 10, 2024	Request for Proposals released
December 19, 2024	10:00 AM Public Hearing on Contract Documents
<b>January 6, 2025</b>	<b>10:00 AM Optional Pre-Proposal Meeting</b>
January 13, 2025	11:00 AM Deadline for RFP questions to the Commission
January 16, 2025	2:00 PM Final Addendum issued
<b>January 21, 2025</b>	<b>10:00 AM RFP response due and opening</b>
January 23, 2025	Consideration of Contract Award
June 30, 2025	Substantial Project Completion

The Contractor shall provide the tentative Project Schedule with the following milestones, assuming a start date of February 1, 2025:

Kickoff – Scoping Meeting  
30% Design Review  
100% Final Design Plans / Construction Documents  
100% Design Review and Pre- pre-construction meeting  
Permitting  
Construction  
As-Built Drawings  
Project Closeout

### 4. SCOPE OF WORK

#### A. General Responsibilities of Contractor.

The Commission is adept at working with professionals to guide it through a project from beginning to end. The following list is a layperson's vision of what services are needed. This project is expected to be turnkey, with all costs in the proposed budget.

The scope of services includes communication with the Commission, assistance with designing the changes to meet regulatory requirements, customer convenience, efficient operations, and strict adherence to the project schedule. Under Commission guidance, the Contractor is to develop a conceptual design, cost estimates for the proposed Project, and schematic design drawings to establish the overall project cost.

#### *Scope of Scale Replacement Contractor is Responsible for:*

- Procurement of a truck scale that meets the Vehicle Scales Specifications found in Attachment B — Project Specifications.
- Providing surveying services for the Project.
- Shall be or hire a sub-contractor registered to install scales in Iowa by the Iowa Department of Agriculture – Weights and Measures. The Contractor shall submit the Notice of Sale of Scale for Companies and the Placed in Service Report - Scales to the Iowa Department of Agriculture – Weights and Measures. All work shall be completed per Iowa Code 215.18 and Iowa Administrative Rules, Chapter 85, Weights and Measures.
- Remove the existing scale and modify the foundations as required to facilitate the installation of the new scale.
- Employ services of the independent testing laboratory to perform testing for work.
- Relocate utilities or approaches as the replacement scale will be wider.
- Install bollards or rail support to address fall hazards, as needed.

- Verify operation and place the scale into service before acceptance.

If the project requires additional fill material, the Owner may coordinate with its contract operator to assist. The Contractor will be required to place and prepare the surface. It is preferred that the current scale indicators and display units be utilized in this project.

*Scope of Scale House Modification. The Contractor is Responsible for:*

- Evaluating options and providing a design to modify the existing scale house to meet project goals. The cost estimate provided will be for modification with an alternate for the demolition and construction of an addition.
- Develop design and construction plans for the remodel or addition.
- Obtaining and procuring all building permits, surveying, plan reviews, and state and local building codes.
- Self-perform or procure sub-contractors to construct the plans consistent with industry standards, SUDAS 2025 Standards, and best practices.
- Employing the services of the independent testing laboratory to perform testing for work.

The Commission will be responsible for all items not connected to the building structure, such as furniture, electronics, etc. This proposal assumes the HVAC and electrical systems are sized for the expanded area for both bids. This includes installing electrical baseboard heating units and wiring into either structure.

B. Progress Payments. Progress payments during the design phase of the work will be based on the submission, review, and acceptance of design deliverables. Progress payments during construction will be based on the percentage of work completed on items listed on the approved schedule of values. Actual construction completed and in place will form the basis for payment. All progress payments must be for the services performed through the last day of the preceding month. Commission and Contractor will negotiate a scale payment schedule before delivery and installation; such prepayment shall not exceed 50% of the scale purchase price. The Commission meets on the 4<sup>th</sup> Thursday of each month. Progress Payment Applications are due by the 3<sup>rd</sup> Wednesday of each month.

C. Scoping and Pre-Construction Meetings. After the contract is awarded and the required insurance and bonds are accepted, the Commission will arrange a kickoff scoping meeting with the Contractor. A pre-construction meeting is required before construction, and progress meetings will be set as needed. The meeting agendas shall include the following as a minimum:

- Review and emphasize the needs and design objectives of the project (scoping)
- Roles and Responsibilities of participants, including subcontractors
- Schedule
- Status of submittals or construction
- Modifications and change orders
- Quality control plan
- Progress Payments

D. Design Requirements. This element of work involves preparing the design development and construction documents.

- *Design Development Documents (30% Plans):* Submit two paper copies and one electronic copy of the Draft DB Design Development Documents for review. The Commission will respond within seven working days with comments.
- *100% Draft Construction Documents:* Submit two paper copies and one electronic copy of the 100% Draft DB Construction Documents for review. The Commission will respond within seven working days with comments.

- *Complete Stamped and Signed Construction Documents:* Submit two paper copies and one electronic copy of the 100% Completed Stamped and Signed DB Construction Document.

E. Construction Requirements. The Contractor will employ construction practices that minimize dust production and combustion byproducts and processes that ensure the generation of as little waste as possible. Waste disposal in landfills shall be minimized. All waste is required to be run across the scale and charged to the Contractor. All material unsuitable for recycling must be disposed of in a legal manner.

The contractor will provide a working hours schedule with the Owner. The Contractor may perform work after the Facility hours and is responsible for maintaining site security when the Facility is closed. The Contractor shall work with the Owner and its Contract Operator to ensure continuity of operations with minimal impact on the traffic queue and utilization of space used for staging materials and support functions. Working outside of Facility hours may be a strategy to reduce the impact on operations.

F. Project Close-out.

*Before requesting a final inspection, submit the following:*

- a. **Project Record Drawings:** Maintain one complete set of contract drawings and one full-size set of vendor-supplied drawings. Mark changes, deletions, and additions to show actual constructed conditions. Keep record drawings current. Certification of accuracy and completeness will be required for monthly payment requisitions. On completion of the total project, submit complete record drawings.
- b. **As-Constructed Drawings:** Provide as-constructed drawings by updating the Approved DB Construction Drawing AutoCAD files with the information on the record drawings, contract modifications, and other applicable shop drawings, sketches, and data. The provided as-constructed drawings shall include an electronic copy in PDF and DWG format and 1 set of ledger-size paper copies.
- c. **Operation and Maintenance Manual:** Compile product data and related information appropriate for OWNER'S maintenance and operation of products furnished under the Contract. Prepare O&M data in the form of an instructional manual for use by OWNER'S personnel in an electronic PDF format and two hard copies of 8-1/2 in. by 11 in. or 11 in. by 17 in. folded, with standard three-holes punching including manufacturer's printed data, or neatly typewritten. The contents will include, at a minimum:
  - A cover with the typed or printed title "OPERATING AND MAINTENANCE INSTRUCTIONS" with the title of the Project, Contractor name, subject matter covered in the manual, and installation date.
  - Table of contents
  - Product Data with annotations of the specific product or part installed, data applicable to installation, delete references to inapplicable information, Project installation schedule listing dates and locations of products installed.
  - Include drawings to fit inside the binder. Larger drawings may be folded to the size of text pages and placed in envelopes to be bound into the manual.
- d. **Guarantees and Bonds:** As specified in Contract Documents.
- e. **Mechanical and Electrical Systems:** Verify in writing that all systems are complete, have been properly started, and are operational, all controls are complete and operational, and sequences have been checked and are functioning properly.
- f. **Testing and Balancing Report:** As applicable.



*Substantial Completion.*

- a. The scale portion of the project will be considered substantially completed when the scale is placed into service.
- b. The Scale House Modification portion of the project will be considered substantially completed when the Occupancy Permit is issued and space is available for use by Owner.

*Final Inspection.* Submit written certification that the project, or designated portion of the project, is substantially complete, and request a final inspection in writing. Upon receipt of the written request that the project is substantially complete, the OR will proceed with an inspection within 5 days of receiving the request or advise the Contractor of items that prevent the project from being designated as substantially complete.

- a. When work is completed substantially, the OR will prepare a list of deficiencies ("Punch List") to be corrected before final acceptance or issue a Letter of Substantial Completion.
- b. The Contractor shall complete the work described on the list of deficiencies within a specified time frame. If the Contractor fails to complete the work within this time frame, the OR may either replace or correct the work with an appropriate reduction in the contract price or charge for re-inspection costs.
- c. If work is not determined to be substantially complete, the OR will notify the Contractor in writing. After completing work, the Contractor shall resubmit certification and request a new final inspection.

*Project Acceptance.* After correcting all deficiencies, the Contracting Officer will issue a Letter of Acceptance and release Project Retainage.

## **5. PRE-PROPOSAL MEETING AND FACILITY TOUR**

An optional pre-proposal meeting shall be held at **10:00 on January 06, 2025**, at the Facility. The Solid Waste and Resource Recovery Administrator will be present to provide further information requested, clarify the intent of the RFP or services, and provide a tour for interested proposers. Any visitor to the site is required to check in with the Scale House and display reflective clothing.

## **6. ADDENDUMS**

All requests for clarification or further information relating to this RFP may be submitted by e-mail to [jfoster@wastetrac.org](mailto:jfoster@wastetrac.org) or U.S. mail to John Foster, P.O. Box 208, Waterloo, IA 50704, **before 11:00 AM CT Monday, January 13, 2025**. Questions and responses will be provided in the form of a supplement issued **before January 16, 2025**, by email to Proposers who have declared an intent to submit a proposal. Proposers must acknowledge receipt of Addendums on the Proposal Form in Exhibit A.

Bids may be withdrawn on written request by the Bidder received before the time fixed for opening. The Bid Bond of any bidder withdrawing his Bid in accordance with the foregoing conditions will be returned promptly.

## 7. PROPOSAL RESPONSE REQUIREMENTS

### Proposal Submittal Deadline and Location

Responses to this RFP must be labeled and received before 10:00 AM, January 21, 2025, at:

BHCSWMC – Scale Project  
INRCOG Front Desk  
Attn: Administrator  
229 E. Park  
Waterloo, IA 50703

Two (2) hard copies and one (1) PDF digital copy of the RFP response must be submitted. Late submittals will not be evaluated. The responses will be distributed to the committee for review and subsequent recommendation. Formal action by the Commission is anticipated at its January 23, 2025, business meeting.

### Proposal Response Requirements

Proposals must contain, at the minimum, the following information clearly and comprehensively and in the following order:

1. Letter of Transmittal. The letter of transmittal should briefly outline the Proposer's understanding of the work and general information regarding the Proposer and its staff anticipated to be assigned to the Project, including sub-contractors.
2. Statement of Contractor Qualifications.
  - a. Proposer shall provide its business name, DBA's or former names, and its main office address;
  - b. Provide the background and experience of the principal members of your business, including the officers and names of individuals to be assigned to this Project;
  - c. A summary of the business history, including the number of years in the business and the general character of the work performed;
  - d. Provide a brief description of the Proposer's experience in work similar to this project;
  - e. Detailed descriptions of no more than three (3) projects that best illustrate the firm's experience, capabilities, and characteristics, which would be uniquely relevant in evaluating the firm's expertise in handling the proposed Project to include project schedule and change order amounts as a percentage of the project; and,
  - f. List any work awarded to Proposer that was not completed or any contracts that were in default, including where and why. If none, state such.
3. Management Plan. Describe your proposed approach to this assignment, addressing the following points:
  - a. Discuss how your proposed Project team members have performed on past projects, which have included interactive design reviews with multiple public agencies, a program manager, and the owner;
  - b. Discuss your approach and initial work approach to this Project;
  - c. Budget management and control: Discuss your approach/method of designing to budget; and,
  - d. Provide a realistic outline schedule for the design and build process.
4. Proposal Form Fee Schedule (Attachment D).
5. Provide written comments on the proposed Improvement Contract and Performance Bond language. If there are no changes, indicate so.

6. Bid Bond. Proposals shall be accompanied in a separate envelope by a certified or cashier's check drawn from an Iowa bank, a certified share draft drawn on a credit union in Iowa or chartered under the laws of the United States, or bid security, payable to BHCSWMC in the sum of not less than 10% of the cost proposed for the Base Bid (as shown in the Proposal Form), which certified check, certified share draft or bid security will be held as security that the respondent will enter into a Contract for the work and will furnish the required bonds, and in case the successful respondent shall fail or refuse to enter into the Contract and furnish the required bonds, respondent's bid security may be retained by said BHCSWMC as agreed upon liquidated damages.

**Faxed and emailed proposals will not be accepted.**

## **VII. SELECTION PROCESS**

### Selection Criteria

All submittals will be reviewed based on written responses to the RFP, including the respondent's qualifications, past project history, key team members and subcontractors, fee proposal, and other factors deemed important.

The Commission may reject any or all proposals if, in its opinion, they do not meet the RFP's requirements. The Committee's recommendation will be subject to the Commission Board of Directors' consideration and approval. All Proposers will be notified in writing regarding the selection process results.

### Reservations

The Commission reserves the right to reject any and all submittals, waive formalities, technical requirements, and/or deficiencies, or solicit new or additional proposals if deemed in its best interests. The Commission also reserves the right to contact Proposers to clarify responses.

### Proposer's Costs

The proposer is responsible for any costs incurred in responding to this RFP.

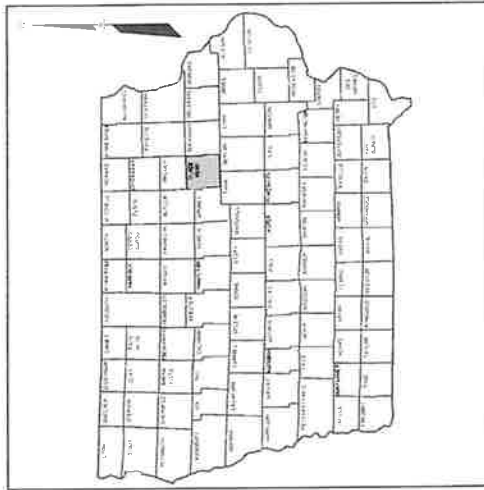
## **Attachment A**

### **EXISTING CONDITIONS AS-BUILT CONSTRUCTION PLANS**

1. Scale Improvement Construction Drawings, May 2008, AECOM (10 pages)
2. Scale and Access Road Improvements Construction Drawings, June 2006, AECOM (15 pages)
3. Sale and Small Loads Facility Construction Drawings, April 1995, AECOM (5 pages)

# BLACK HAWK COUNTY SOLID WASTE COMMISSION SCALE IMPROVEMENTS CONSTRUCTION DRAWINGS

BLACK HAWK COUNTY SANITARY LANDFILL  
WATERLOO, IOWA  
MAY 2008



VICINITY MAP  
N15



LOCATION MAP  
N15

## INDEX OF DRAWINGS

1	TITLE SHEET
2	LEGEND AND GENERAL NOTES
3	QUANTITIES AND ESTIMATE REFERENCE
4	GENERAL SITE PLAN AND BENCH MARKS
5	REMOVAL PLAN
6	NEW FACILITIES PLAN
7	PAVEMENT JOINTING AND GRADES
8	DETAILS
9	DETAILS
10	DETAILS
11	ELECTRICAL SITE PLAN
12	DETAILS

**EarthTech**  
501 SYCAMORE STREET SUITE 222  
WATERLOO, IOWA 50703  
319-232-6531

PREPARED BY

I hereby certify that this Engineering document was prepared by me or under my direct personal supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Iowa.

**RICHARD L. WENGER**     **Boiler**  
License Number 8148  
My license renewal date is December 31, 2009  
Professional Seal of Richard L. Wenger, P.E.  
P.O. Box 1024, Waterloo, IA 50703

PREPARED FOR

**BLACK HAWK COUNTY  
SOLID WASTE COMMISSION**

1407 INDEPENDENCE AVENUE, 5TH FLOOR  
WATERLOO, IOWA 50704  
319-234-8115

**SYMBOLS LEGEND**

	Evergreen Tree
	Deciduous Tree
	Fruit Tree
	Shrub (Bare)
	Tinder
	Hedge
	Swamp
	Slope
	Barricade
	Chain Link Fence
	Beadstone Fence
	Existing Metal Line
	Existing Telephone Line
	Existing Gas Line
	Existing Power Line
	Cable Television Line
	Railroad
	Railroad Signal
	Railroad Box
	Section Corner
	Section Line
	Demarcation Arrow
	Demarcation Line
	Dike
	Fence
	Earth Dam or Dike (Existing)
	Earth Dam or Dike (Proposed)
	Tile Outlet
	Edge of Water
	Existing Drainage
	Proposed Drainage

**GENERAL NOTES**

- ARRANGE WITH THE VARIOUS UTILITY COMPANIES FOR SUPPORT OR RELOCATION OF ANY UTILITIES AND/OR UTILITY POLES. ANY CHARGE FOR TEMPORARY SUPPORTING OR RELOCATING ANY UTILITIES AND/OR UTILITY POLES SHOULD BE THE CONTRACTOR'S RESPONSIBILITY. CONTACT IOWA ONE CALL (1-800-232-8981) FOR EXISTING UTILITIES LOCATIONS PRIOR TO EXCAVATION.
- WHERE PUBLIC UTILITY FUTURES ARE SHOWN AS EXISTING ON DRAWINGS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN LOCATED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR EXISTENCE IS ASSUMED. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE EXISTENCE OF WHICH IS PRESENTLY KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE TO UTILITIES. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.
- PROVIDE, ERECT AND MAINTAIN AT ALL TIMES DURING THE PROGRESS AND SUSPENSION OF THE WORK AND UNTIL COMPLETION AND FINAL ACCEPTANCE OF THE WORK, ALL NECESSARY BARRIERS, SIGNS OR OTHER ADEQUATE PROTECTION THROUGHOUT THE CONSTRUCTION PERIOD TO PROTECT THE PUBLIC AS WELL AS THOSE ENGAGED IN THE WORK. BARRICADES AND OBSTRUCTIONS SHALL BE MARKED AT NIGHT BY FLASHING YELLOW SIGNAL LIGHTS. CONSTRUCTION OF BARRIERS, BARRICADES AND LIGHTS SHALL CONFORM TO THE REQUIREMENTS OF THE IOWA DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, AND THE LATEST REVISION OF IOWA DEPARTMENT OF TRANSPORTATION SPECIFICATION FOR TRAFFIC CONTROL FOR STREET AND HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS.
- GRASED AREAS DISTURBED DURING CONSTRUCTION SHALL BE FINISH GRADED WITH WITHIN 6" TOPSOIL, FERTILIZED, SEEDED AND MULCHED.
- FINISH GRADE AND CLEANUP IMMEDIATELY BEHIND EXCAVATION AND BACKFILL OPERATIONS TO MINIMIZE INCONVENIENCE TO PUBLIC.
- PROVIDE COMPLETED STRUCTURAL BACKFILL FOR TRENCHES BENEATH PC CONCRETE AND HMA PAVED SURFACES.
- GRADE ALL AREAS TO DRAIN.
- MINIMIZE DISTURBANCE TO EXISTING DRIVES, SIDEWALKS AND GRASSED AREAS.
- COST OF REMOVAL AND RELOCATION OF EXISTING SIGNS WITHIN LIMITS OF CONSTRUCTION IS INCIDENTAL TO PROJECT.
- CONTRACTOR SHALL APPLY NECESSARY MOISTURE TO CONSTRUCTION AREA AND HALL ROADS TO PREVENT SPREAD OF DUST.
- WORK SHALL BE CONDUCTED IN ACCORDANCE WITH BLACK HAWK COUNTY SANITARY LANDFILL 5 IMPES POLLUTION PREVENTION PLAN.
- USE BORROW EXCAVATION FROM ON-SITE, COORDINATE WITH OWNER FOR LOCATION OF EARTH BORROW.
- DISPOSE OF EXCESS EARTH AND CONCRETE REMOVAL ON SITE IN LOCATION AS DIRECTED BY OWNER.

**STAGING NOTES**

- STAGE CONSTRUCTION OF IMPROVEMENTS TO MAINTAIN CUSTOMER TRAFFIC OVER EXISTING SCALES, EXISTING ACCESS ROAD AND SMALL LOADS AREA, UNTIL NEW SCALE IS COMPLETE AND READY FOR OPERATION.
- COMPLETE AS MUCH NEW CONSTRUCTION AS POSSIBLE PRIOR TO PLACING NEW SCALE IN OPERATION.
- COMPLETE WEST 20' OF PAVEMENT REMOVAL AND REPLACEMENT AS SOON AS POSSIBLE.
- DO NOT ROUTE TRAFFIC OVER NEW SCALE UNTIL NEW COMPUTER AND SOFTWARE IS INSTALLED AND READY FOR OPERATION. COORDINATE WITH OWNER AND SMOOTH TRANSITION OF OPERATION FROM EXISTING SCALE FACILITY TO NEW FACILITY.
- PROVIDE OWNER WITH DETAILED STAGING PLAN FOR OWNER AND ENGINEER REVIEW PRIOR TO COMMENCING PROJECT CONSTRUCTION.

**LEGEND AND NOTES**

CONSTRUCTION IMPROVEMENTS  
SCALE IMPROVEMENTS  
BLACK HAWK COUNTY LANDFILL

DATE	MAY 2008
PROJECT	03742-10-000
FILENAME	01-C-4-000
SHEET NO.	2
DRAWING NO.	



**LEGEND AND NOTES**

CONSTRUCTION IMPROVEMENTS  
SCALE IMPROVEMENTS  
BLACK HAWK COUNTY LANDFILL

DATE	MAY 2008
PROJECT	03742-10-000
FILENAME	01-C-4-000
SHEET NO.	2
DRAWING NO.	

**ESTIMATE REFERENCE NOTES**

1. REFER TO SECTION 11100.
2. INCLUDES MOBILIZATION AND DEMOBILIZATION COSTS FOR COMPLETE PROJECT. CONTRACTOR WILL BE ELIGIBLE FOR UP TO HALF OF MOBILIZATION COST AT BEGINNING OF PROJECT WITH REMAINDER TO BE PAID AS PART OF CLOSEOUT.
3. REFER TO SECTION 02320. INCLUDES PLUGGING ABANDONED WATER SERVICE, REMOVAL OF SANITARY FENCE SERVICE, CLEANOUT, AND REMOVAL OF OLD SCALE HOUSE FOOTING WALL AS REQUIRED. ALSO INCLUDES SILT FENCE AND SILT FENCE REMOVAL AS REQUIRED TO CONTROL EROSION.
4. LUMP SUM PRICE INCLUDES EXCAVATION REQUIRED FOR NEW PAVEMENT, ENGAGEMENT FOR SCALE RAMPS AND ANY OTHER MISCELLANEOUS EARTHWORK REQUIRED FOR PROJECT.
5. & 6. REFER TO SECTION 02515 AND TYPICAL SECTIONS.
7. REFER TO SECTION 02730 AND TYPICAL SECTIONS. MEASUREMENT AND PAYMENT FOR CLASS A CRUSHED STONE SAME UNIT PRICE AS MODIFIED SUBBASE.
8. INCLUDES REMOVAL OF EXISTING ROCK, REGRADE AREA, EXCAVATION FOR SWALE, ENGINEERING FABRIC, EROSION STONE AND REPLACEMENT TOPSOIL IN DISTURBED AREA.
9. INCLUDES EXCAVATION TO EXPOSE SEWER SERVICE, FURNISHING AND PLACEMENT OF INSULATION AND STRUCTURAL BACKFILL.
10. INCLUDES CONCRETE REMOVAL IN AREAS INDICATED ON PLANS. REFER TO SECTION 02310.
11. INCLUDES REMOVAL OF GUARD POST AND FOOTINGS COMPLETE. INCLUDES DISPOSAL OF GUARD POSTS NOT SCHEDULED FOR REPLACEMENT AND SALVAGING GUARD POSTS FOR REUSE.
12. & 13. INCLUDES FURNISHING AND INSTALLATION OF GUARD POSTS PER PLAN DETAILS AT LOCATIONS INDICATED.
14. INCLUDES REINSTALLATION OF REMOVABLE GUARD POSTS PER DETAIL AND REPAINTING GUARD POSTS TO MATCH EXISTING.
15. INCLUDES EXCAVATION, FURNISHING AND INSTALLATION OF POST SLEEVE, CONCRETE ENGAGEMENT AND BACKFILL.
16. INCLUDES FURNISHING AND INSTALLATION OF GRATED PLATFORM AND GRATING AS DETAILED ON PLANS. METAL SKIRTING AND PLYWOOD DECK PANELS PAID FOR AS SEPARATE BID ITEMS.
17. INCLUDES REMOVAL OF GRATED PLATFORMS, MODIFICATIONS AS REQUIRED TO SUITE NEW LOCATION, AND REINSTALLATION.
18. INCLUDES FURNISHING AND INSTALLATION OF METAL SKIRTING ON GRATED PLATFORMS PER PLAN DETAILS. MEASUREMENT AND PAYMENT PER LINEAL FOOT IRRESPECTIVE OF HEIGHT.
19. INCLUDES FURNISHING AND INSTALLATION OF PLYWOOD PANELS ON GRATED PLATFORMS BENEATH NEW OR EXISTING GRATING.
20. INCLUDES FURNISHING AND INSTALLATION OF NEW BARRIER GATE WIRED TO OPERATE AUTOMATICALLY AFTER VEHICLE HAS BEEN WEIGHED. ALSO INCLUDES PAYMENT INSTALLED DETECTOR LOOPS.
21. INCLUDES NEW CAMERA, MOUNTING POLE, POLE FOUNDATION, AND ASSOCIATED WIRING COMPLETE.
22. INCLUDES FURNISHING AND INSTALLATION OF ALL ELECTRICAL WIRING NOT INCLUDED IN OTHER BID ITEMS AND WIRING NECESSARY TO INSTALL OWNER FURNISHED WASTE WIRE/ AUTOMATIC WEIGHING SYSTEM COMPLETE.
23. LUMP SUM BID ITEM INCLUDES RESTORATION OF SEEDED AREAS DISTURBED DURING CONSTRUCTION WITH 6 INCHES TOPSOIL AND SEEDING PER SECTION 02485.
24. INCLUDES ALL TRAFFIC CONTROL REQUIRED FOR PROJECT. REFER TO SECTION 02970.

**ESTIMATED QUANTITIES**

ITEM	DESCRIPTION	UNIT	ESTIMATED QUANTITY
1	100-Ton Pitiless Scale consists	LS	1.0
2	Site Preparation	LS	1.0
3	Site Preparation	LS	1.0
4	Earthwork	LS	1.0
5	9" Thick PC Concrete Paving	SY	520.0
6	6" Thick PC Concrete Paving	SY	323.0
7	6" Thick PC Concrete Paving	SY	323.0
8	Relocate Rock Lined Swale	SY	30.0
9	Insulate Sewer Service	LF	50.0
10	Pavement Removal	SY	893.0
11	Guard Posts	EA	8.0
12	Guard Posts	EA	8.0
13	Key Post Guard Posts	EA	8.0
14	Reinstall Removable Guard Posts	EA	2.0
15	Removable Guard Post Sleeves	EA	2.0
16	Remove and Reinstall Grated Platform	LS	1.0
17	Remove and Reinstall Grated Platform	LS	1.0
18	Grated Walkway Skirting	LF	232.0
19	Plywood Panels Beneath Grating	SF	2,100.0
20	Barrier Gates	EA	1.0
21	Surveillance System	EA	1.0
22	Electric Post Work	LS	1.0
23	Fertilizing, Seeding and Mulching	LS	1.0
24	Traffic Control	LS	1.0



CONSTRUCTION DRAWINGS  
SCALE IMPROVEMENTS  
BLACK HAWK COUNTY LANDFILL  
ESTIMATE REFERENCE

DATE: MAY 2008  
PROJECT NO: 03772.01.00  
PLN/REV: 01-G-5-56P  
SHEET NO: 3  
DRAWING NO: 3

WATER DOG  
IOWA  
MAY 2008  
DKS/BLB  
5/2/2008  
5/2/2008  
5/2/2008  
5/2/2008

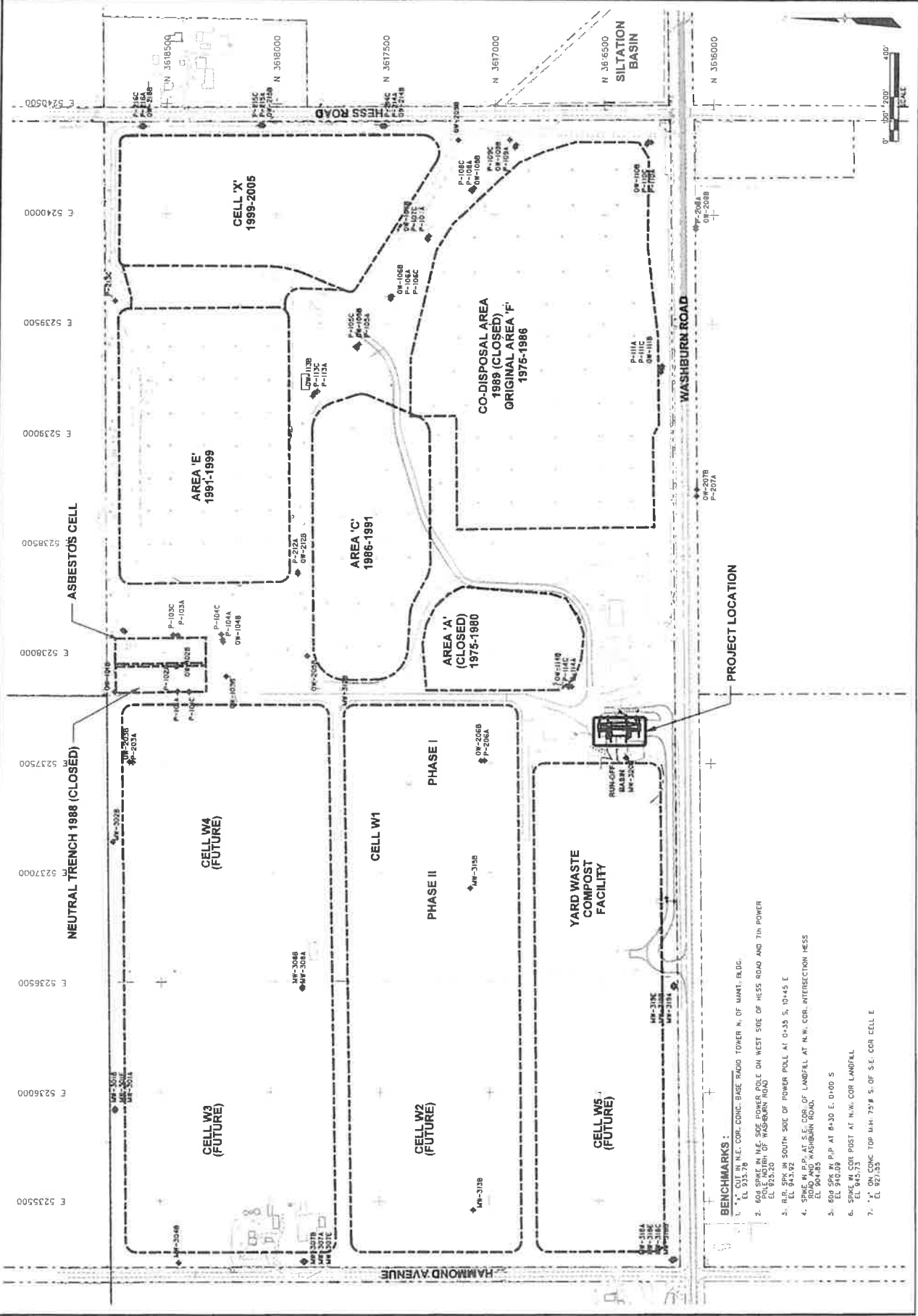
DATE	REV	BY	DESCRIPTION
05/2008	1	WAT/EOO	WATER
05/2008	2	WAT/EOO	WATER
05/2008	3	WAT/EOO	WATER
05/2008	4	WAT/EOO	WATER
05/2008	5	WAT/EOO	WATER
05/2008	6	WAT/EOO	WATER
05/2008	7	WAT/EOO	WATER
05/2008	8	WAT/EOO	WATER
05/2008	9	WAT/EOO	WATER
05/2008	10	WAT/EOO	WATER

**EarthTech**

**GENERAL SITE PLAN  
AND BENCHMARKS**

CONSTRUCTION DRAWINGS  
SCALE APPROXIMATE  
BLACK HAWK COUNTY LANDFILL

DATE: MAY 2008  
PROJECT: 037142.10.090  
FIELDNAME: 02-11-2.09A  
SHEET NO: 4  
DRAWING NO: 4

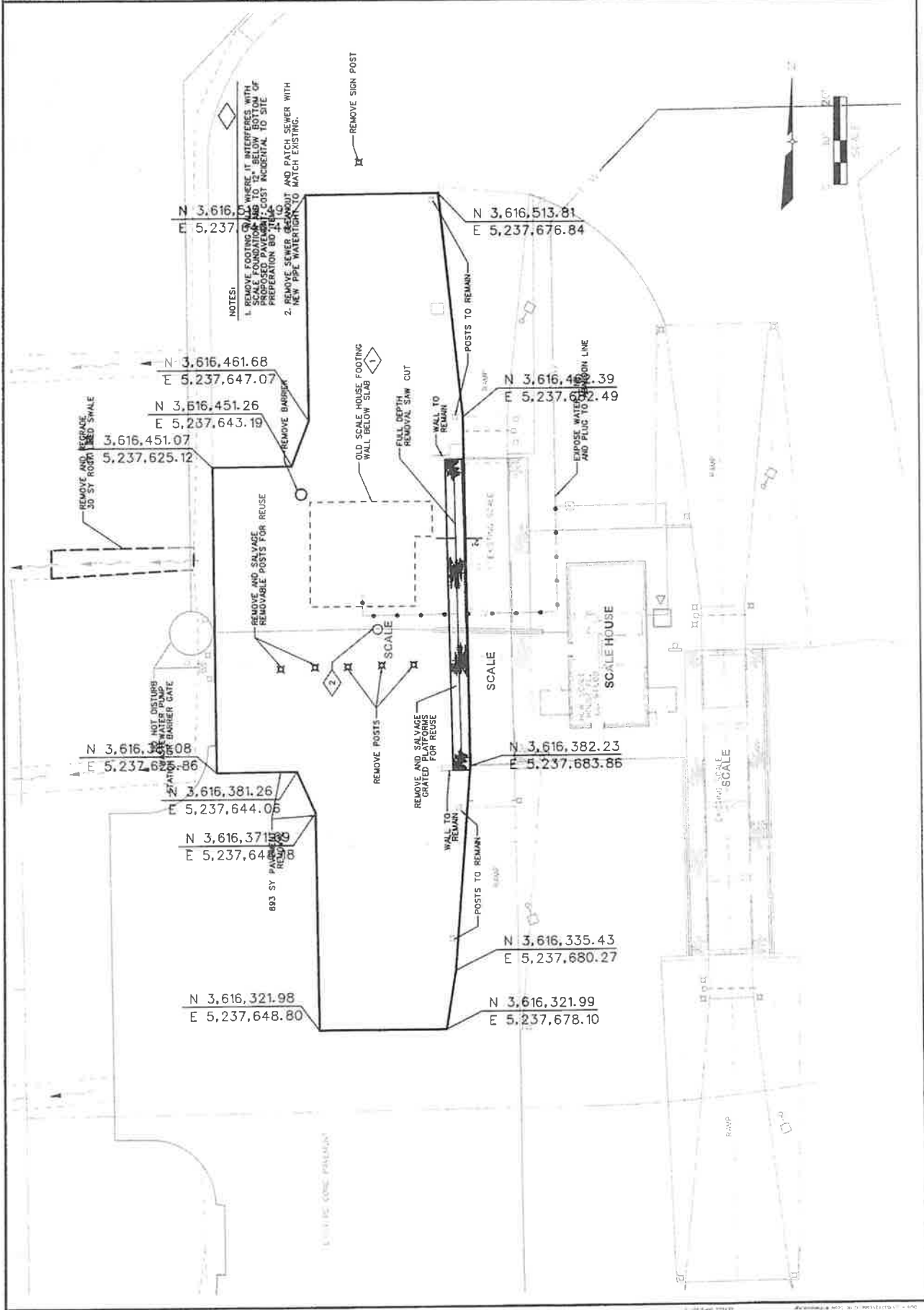


PROJECT LOCATION

- BENCHMARKS:**
1. "X" OUT IN N.E. COR. CONC. BASE BRGDD TOWER N. OF MANT. BLDG.  
E.L. 933.78
  2. 604 SPK IN N.E. SIDE POWER POLE ON WEST SIDE OF HESS ROAD AND 7th POWER  
E.L. 923.20
  3. B.R. SPK IN SOUTH SIDE OF POWER POLE AT 0+35 S. 10+45 E  
E.L. 943.92
  4. SPK IN P.P. AT S.E. COR. OF LANDFILL AT N.W. COR. INTERSECTION HESS  
E.L. 904.05
  5. 604 SPK IN P.P. AT 8+30 E. 0+00 S  
E.L. 940.09
  6. SPK IN COR. POST AT N.W. COR. LANDFILL  
E.L. 943.73
  7. E.L. 929.50 CONC. TOP I.H. 75' # S. OF S.E. COR. CELL E



REV	DATE	DESCRIPTION
1	5/1/2008	ISSUED FOR PERMIT
2	5/1/2008	REVISED PER COMMENTS
3	5/1/2008	REVISED PER COMMENTS
4	5/1/2008	REVISED PER COMMENTS
5	5/1/2008	REVISED PER COMMENTS



- NOTES:
1. REMOVE FOOTING WALL WHERE IT INTERFERES WITH SCALE FOUNDATION AND TO 1" BELOW BOTTOM OF SCALE FOUNDATION. PREPARE FOOTING PREPARATION BY TRENCHING AND PATCH EXISTING.
  2. REMOVE SIGN POST AND PATCH EXISTING. NEW PIPE WATER MAIN TO MATCH EXISTING.

N 3,616,513.81  
 E 5,237,676.84

N 3,616,461.68  
 E 5,237,647.07

N 3,616,451.26  
 E 5,237,643.19

3,616,451.07  
 5,237,625.12

N 3,616,460.39  
 E 5,237,642.49

N 3,616,385.08  
 E 5,237,655.86

3,616,381.26  
 E 5,237,644.05

N 3,616,371.89  
 E 5,237,640.08

N 3,616,382.23  
 E 5,237,683.86

N 3,616,335.43  
 E 5,237,680.27

N 3,616,321.98  
 E 5,237,648.80

N 3,616,321.99  
 E 5,237,678.10

NO.	REV.	DATE	BY	CHK.	DESCRIPTION
1					ISSUED FOR PERMIT
2					REVISED PER COMMENTS
3					REVISED PER COMMENTS
4					REVISED PER COMMENTS
5					REVISED PER COMMENTS
6					REVISED PER COMMENTS
7					REVISED PER COMMENTS
8					REVISED PER COMMENTS
9					REVISED PER COMMENTS
10					REVISED PER COMMENTS

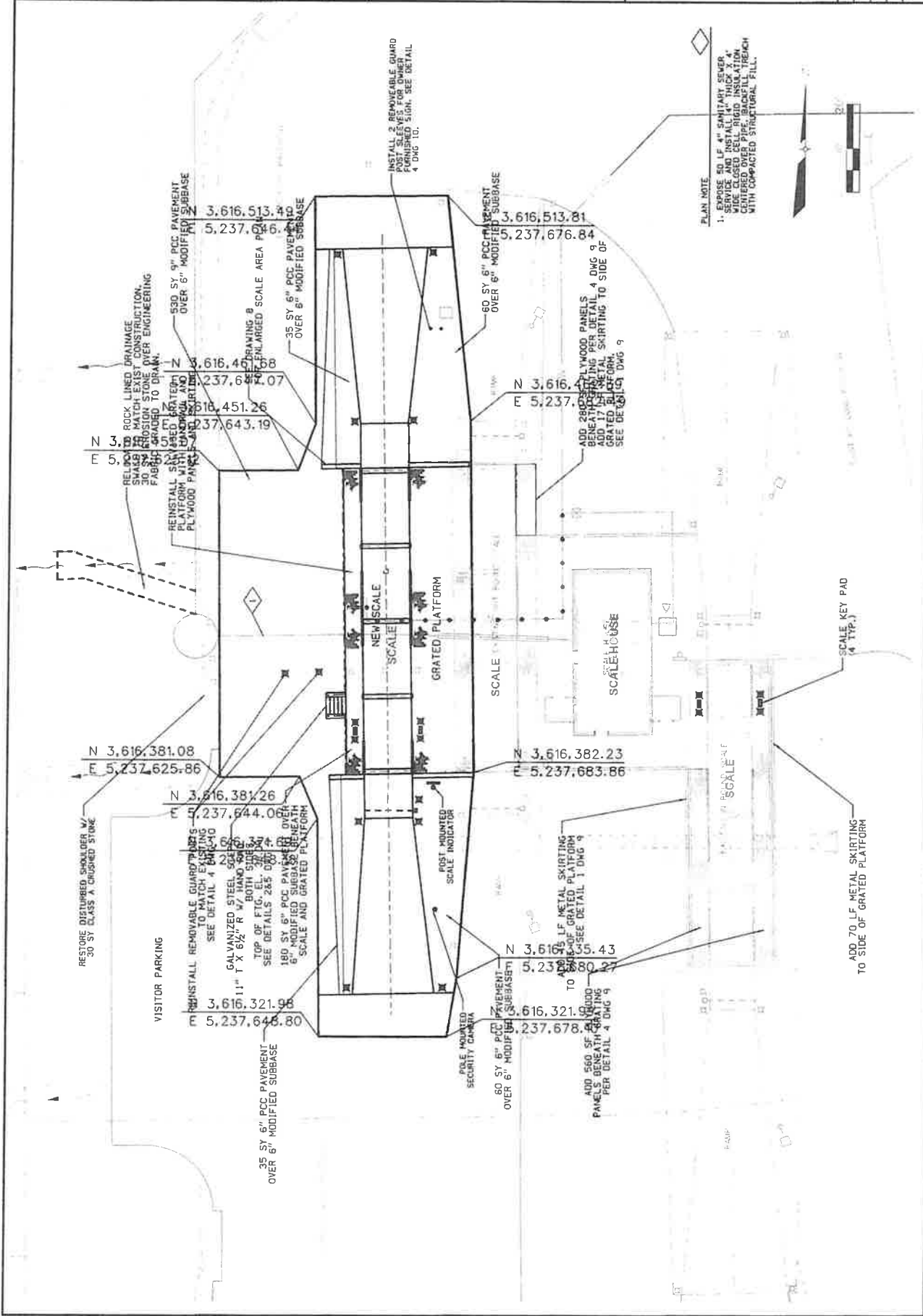
DATE	BY	CHK.	DESCRIPTION
5/2008			ISSUED FOR PERMIT
5/2008			REVISED PER COMMENTS
5/2008			REVISED PER COMMENTS
5/2008			REVISED PER COMMENTS
5/2008			REVISED PER COMMENTS
5/2008			REVISED PER COMMENTS
5/2008			REVISED PER COMMENTS
5/2008			REVISED PER COMMENTS
5/2008			REVISED PER COMMENTS
5/2008			REVISED PER COMMENTS



NEW FACILITIES PLAN

CONSTRUCTION DRAWINGS  
SCALE IMPROVEMENTS  
BLACK HAWK COUNTY LANDFILL

DATE	MAY 2008
PROJECT	SCALE IMPROVEMENTS
FLOWNO.	07-05-RIP
SHEET NO.	6
DRAWING NO.	



PLAN NOTE  
1. EXPOSE 50 LF 4" SANITARY SEWER  
PIPE TO 18" BELOW GRADE. INSTALL  
WIDE CLOSED CELL RIGID INSULATION  
CENTERED OVER PIPE, BACKFILL TRENCH  
WITH COMPACTED STRUCTURAL FILL.



SCALE KEY PAD  
(4 TYP.)

ADD 70 LF METAL SKIRTING  
TO SIDE OF GRATED PLATFORM

ADD 560 SF 6" WOOD  
PANELS BENEATH GRATING  
PER DETAIL 4 DWG 9

ADD 280 SF PLYWOOD PANELS  
BENEATH GRATING PER DETAIL 4 DWG 9  
GRADED BELOW GRATING SKIRTING TO SIDE OF  
SEE DETAIL 1 DWG 9

60 SY 6" PCC PAVEMENT  
OVER 6" MODIFIED SUBBASE

35 SY 6" PCC PAVEMENT  
OVER 6" MODIFIED SUBBASE

RESTORE DISTURBED SHOULDER W/  
30 SY CLASS A CRUSHED STONE

REINSTALL REMOVABLE GUARDRAILS  
TO MATCH EXISTING  
SEE DETAIL 4 DWG 10

CALVANIZED STEEL 4" X 4"  
TOP OF FIG. - EL. 377.84  
SEE DETAILS 2&5 DWG 7

180 SY 6" PCC PAVEMENT OVER  
6" MODIFIED SUBBASE BENEATH  
SCALE AND GRATED PLATFORM

REINSTALL 3" X 3" METAL  
PLYWOOD PANELS OVER  
PLYWOOD PLATFORM

REINFORCE 30 SY CRUSHED STONE  
FABRIC GRADED TO DRAIN.  
OVER ENGINEERING

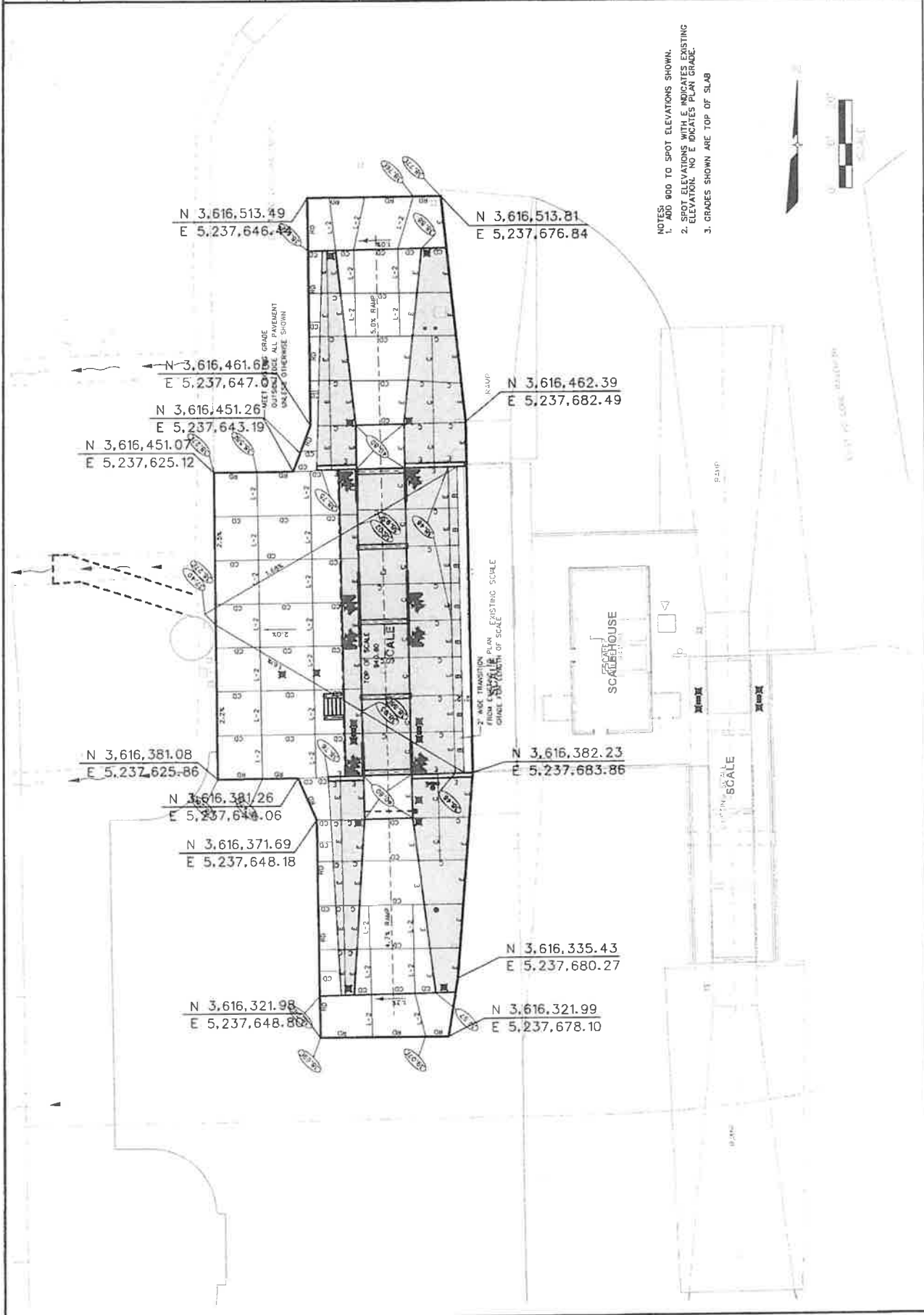
ROCK LINED DRAINAGE  
CHANNEL WITH  
SMALL RIBS

INSTALL 2 REMOVABLE GUARD  
POST SLEEVES FOR OWNER  
FURNISHED SIGN. SEE DETAIL  
4 DWG 10.

60 SY 6" PCC PAVEMENT  
OVER 6" MODIFIED SUBBASE

NO.	DATE	BY	CHKD	DATE

NO.	DATE	BY	CHKD	DATE

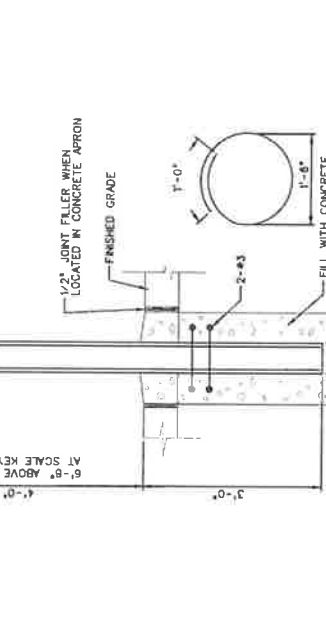
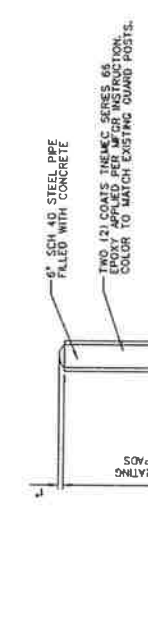
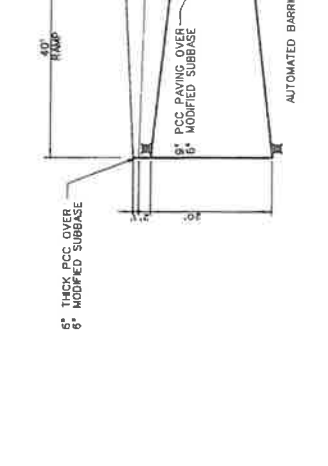
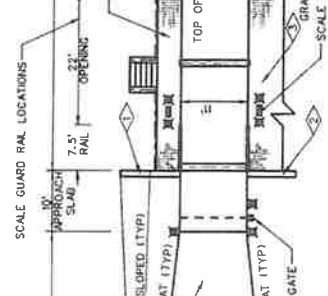
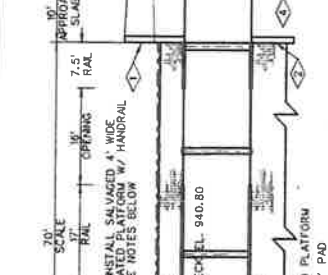
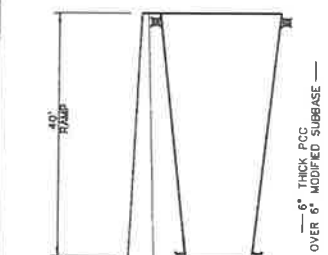


SCALE DETAILS	
CONSTRUCTION DRAWINGS	
SCALE IMPROVEMENTS	
BLACK HAWK COUNTY LANDFILL	
DATE	MAY 2008
PROJECT NO.	03142.00.000
TECHNICIAN	DAVID M. SPINALE
DRAWING NO.	9
DATE	



NO.	REV.	DATE	DESCRIPTION
1	01	5/2008	ISSUE FOR PERMITS
2	01	5/2008	ISSUE FOR CONSTRUCTION
3	01	5/2008	ISSUE FOR CONSTRUCTION
4	01	5/2008	ISSUE FOR CONSTRUCTION

- PLAN NOTES:**
- SEE DETAIL 2, DWG 10
  - SEE DETAIL 3, DWG 9
  - SEE DETAIL 3, DWG 9
  - LOCATE GUARD POSTS 1.5 FOOT FROM EDGE OF RAMP.



- SALVAGED GRATED PLATFORM NOTES:**
- MODIFY SUPPORT LEG LENGTH ON SALVAGED GRATED PLATFORMS AS REQUIRED TO PROVIDE FLAT AND LEVEL SURFACE TO MATCH TOP OF SCALE DECK GRAVEL.
  - MODIFY HANDRAIL TO PROVIDE OPENING AT STEPS, MATCH EXISTING CONSTRUCTION.
  - AFTER MODIFICATIONS COAT ENTIRE GRATED PLATFORM AND HANDRAILS, EXCEPT GRATING, WITH 2 COATS THEMEC SERIES 69 OR EQUAL EPOXY COATING IN COLOR CHOSEN BY OWNER.
  - SECURE GRATED PLATFORMS TO SLAB WITH SS ANCHOR BOLTS.
  - ADD SKIRTING TO WEST SIDE PER DETAIL 1 DWG 9.
  - ADDING PLYWOOD PANELS UNDER GRATING PER DETAIL 4 DWG 9.

**SCALE GUARD RAIL LOCATIONS**

**SCALE AND RAMP PLAN**

**SECTION A-A**

**SCALE AREA FOUNDATION PLAN**

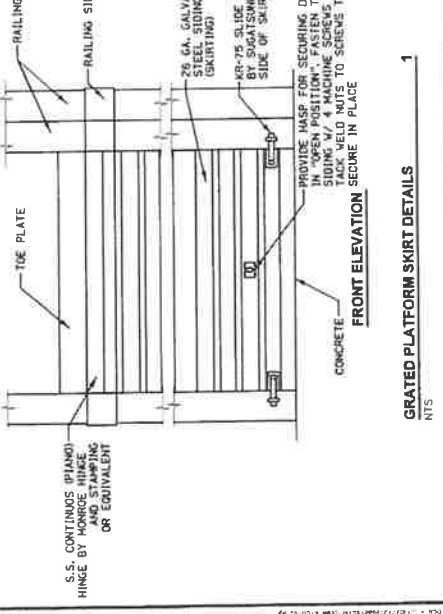
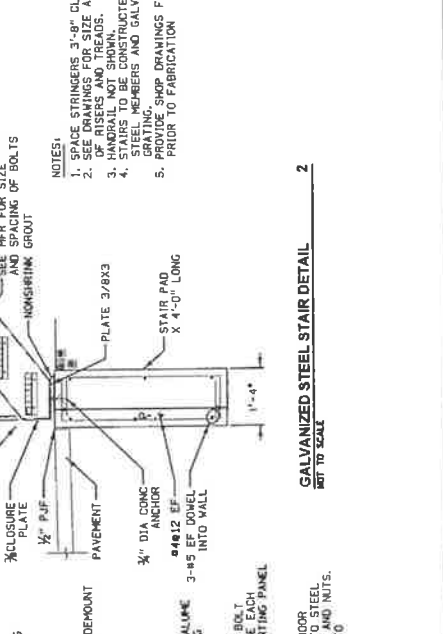
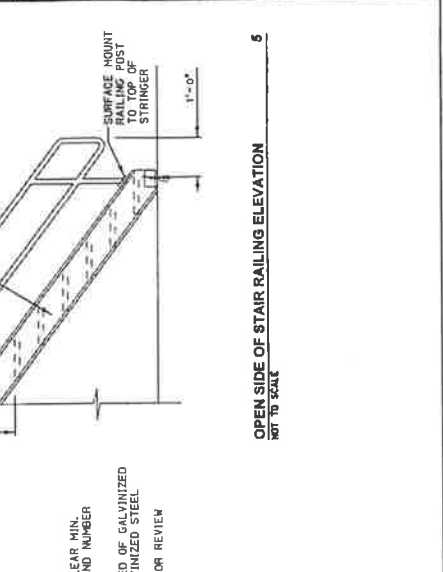
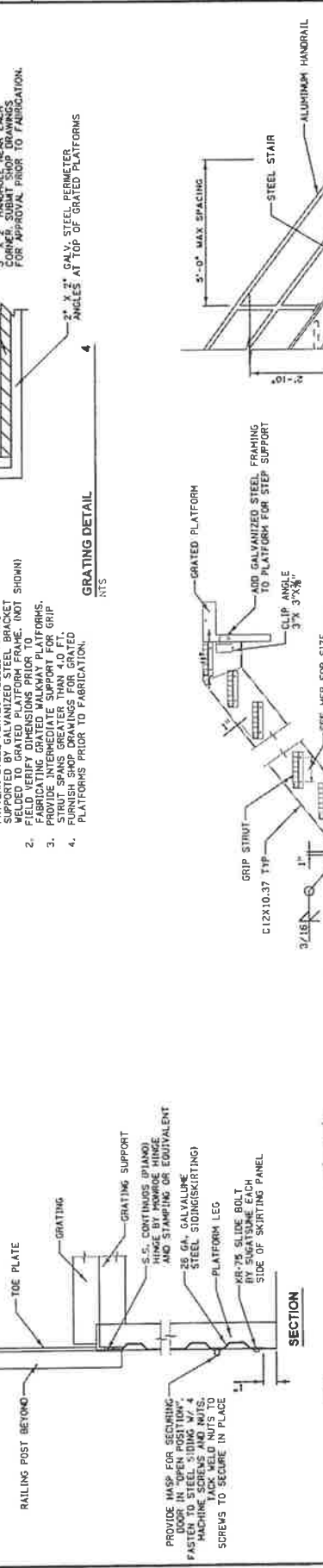
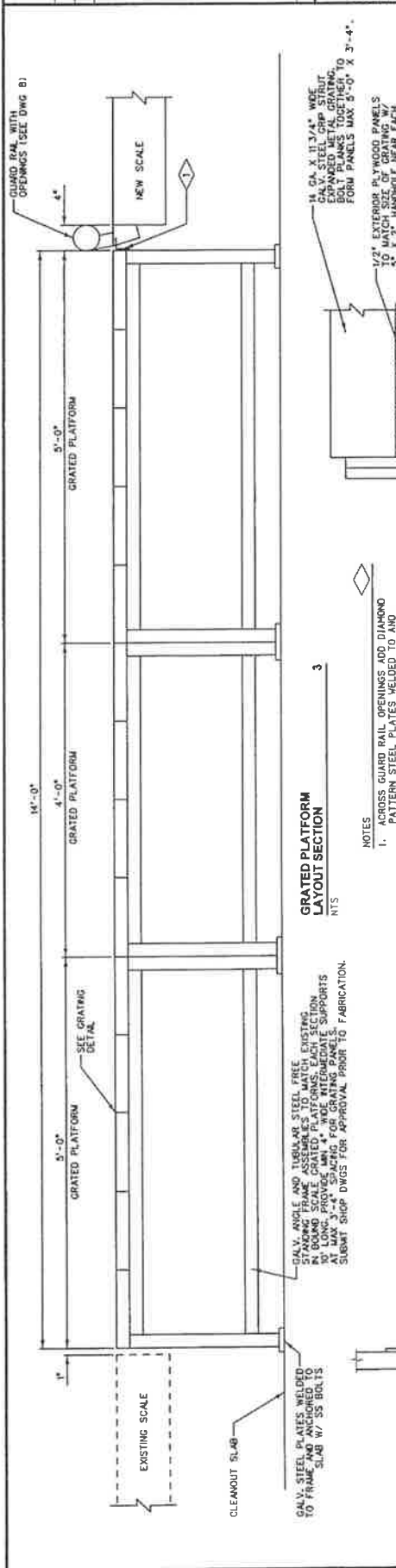
NOTE 1: REBAR REQUIRED FOR APPROACH SLAB BUT NOT RAMP

NOTE 2: 3\"/>

NOTE 3: 3\"/>

NOTE 4: UNDISTURBED EARTH (MAX ALLOWABLE SOIL LOADING 1,500 PSF TYPICAL)

NO.	DATE	BY	CHKD	REVISIONS
1	5/2008	WAT/BO		
2	5/2008	WAT/BO		
3	5/2008	WAT/BO		
4	5/2008	WAT/BO		
5	5/2008	WAT/BO		



**GRATED PLATFORM LAYOUT SECTION** NTS

**GRATING DETAIL** NTS

**OPEN SIDE OF STAIR RAILING ELEVATION** NOT TO SCALE

**GALVANIZED STEEL STAIR DETAIL** NOT TO SCALE

**FRONT ELEVATION SKIRT DETAILS** NTS

NO.	DATE	BY	CHKD	REVISIONS
1	5/2008	WAT/BO		
2	5/2008	WAT/BO		
3	5/2008	WAT/BO		
4	5/2008	WAT/BO		
5	5/2008	WAT/BO		

NO.	REVISIONS	DATE

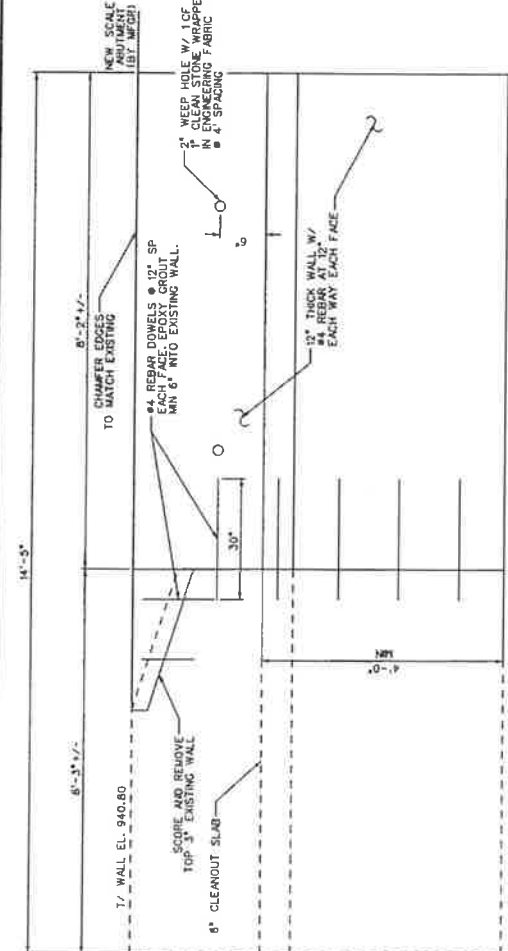
DATE	BY	CHKD	APP'D
5/2008			
5/2008			
5/2008			
5/2008			

WATER CO  
IOWA

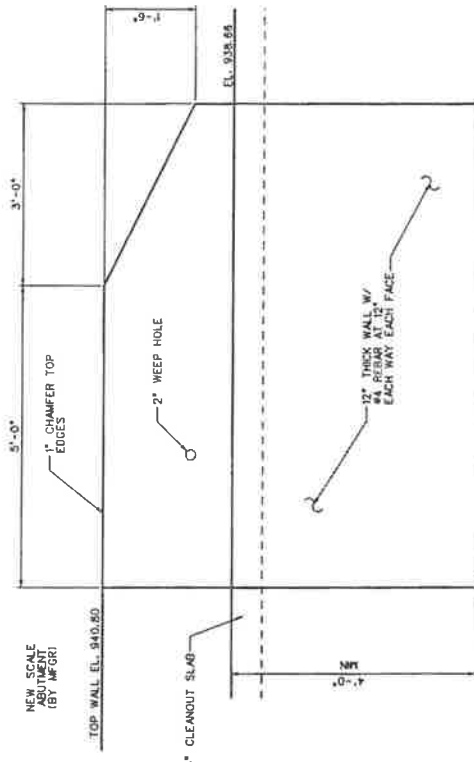


CONSTRUCTION DRAWINGS  
SCALE IMPROVEMENTS  
BLACK HAWK COUNTY LANDFILL

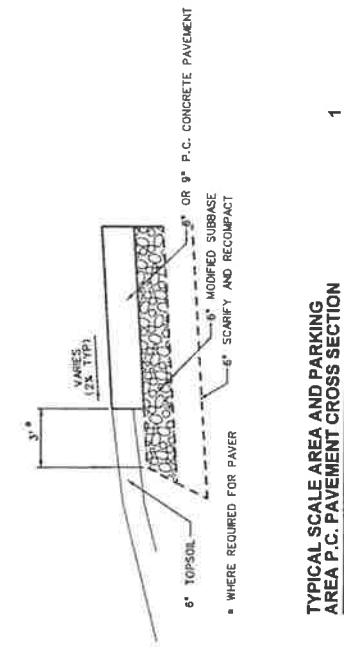
DATE: MAY 2008  
PROJECT: 02-C-12-000  
FILENAME: 02-C-12-000  
SHEET NO: 10  
DRAWING NO: 10



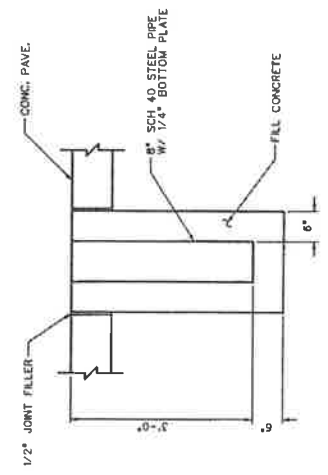
**RETAINING WALL DETAIL  
BETWEEN SCALES**  
NTS



**RETAINING WALL DETAIL  
WEST END OF SCALE**  
NTS



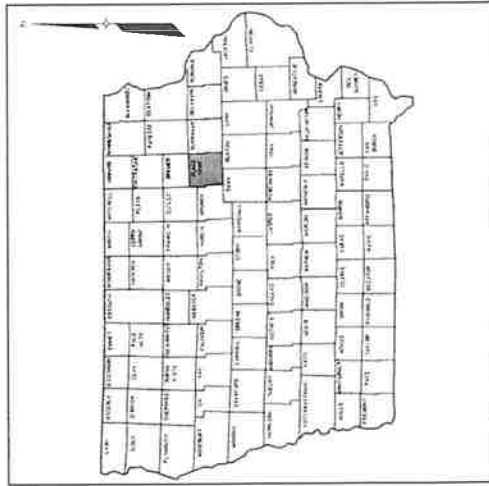
**TYPICAL SCALE AREA AND PARKING  
AREA P.C. PAVEMENT CROSS SECTION**  
NTS



**REMOVABLE POST  
SLEEVE DETAIL**  
NTS

# BLACK HAWK COUNTY SOLID WASTE COMMISSION SCALE AND ACCESS ROAD IMPROVEMENTS CONSTRUCTION DRAWINGS

## BLACK HAWK COUNTY SANITARY LANDFILL WATERLOO, IOWA JUNE 2006



VICINITY MAP  
NTS



LOCATION MAP  
NTS

### INDEX OF DRAWINGS

<b>GENERAL DRAWINGS</b>	<b>ARCHITECTURAL / STRUCTURAL</b>
G-01	AS-01
G-02	AS-02
G-03	AS-03
G-04	AS-04
G-05	AS-05
	AS-06
	AS-07
	AS-08
	AS-09
	AS-10
	AS-11
	AS-12
<b>CIVIL</b>	<b>HVAC</b>
C-01	H-01
C-02	H-02
CR-01	<b>PLUMBING</b>
CF-01	P-01
CFP-01	<b>ELECTRICAL</b>
CG-01	E-01
CG-02	E-02
CG-03	E-03
CE-01	E-04
CE-02	E-05
CD-01	E-06
CK-01	
CK-02	
CK-03	
CK-04	
CK-05	

PREPARED FOR  
**BLACK HAWK COUNTY  
SOLID WASTE COMMISSION**  
1407 INDEPENDENCE AVENUE, 5TH FLOOR  
WATERLOO, IOWA 50704  
319-234-8115

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed professional engineer in the State of Iowa.  
*Robert E. Breen*  
1144  
12-31-2007  
Pages or sheets covered by this seal:  
PER INDEX OF DRAWINGS

PREPARED BY  
**EarthTech**  
A tyco International Ltd. Company  
501 SYCAMORE STREET SUITE 222  
WATERLOO, IOWA 50703  
319-232-6531





NO	REV	DATE	DESCRIPTION
1	1	02/25/06	ISSUED FOR CONSTRUCTION
2	1	06/20/06	REVISED FOR CONSTRUCTION

DATE	02/25/06
PROJECT NO.	01-027-44
SHEET NO.	01-027-44
DRAWING NO.	01-027-44

**EarthTech**  
A Tyco International Company

BLACK HAMK COUNTY  
WATERLOO, IA

**PLUMBING AND HVAC  
ABBREVIATIONS AND SYMBOLS**

DATE	JUNE 2006
PROJECT NO.	01-027-44
SHEET NO.	01-027-44
DRAWING NO.	01-027-44

### DUCTWORK SYMBOLS



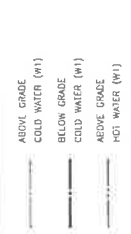
### PIPE SPECIALTIES (HVAC)



### PIPE SYMBOLS (CONT.)



### PIPE SYMBOLS



### ABBREVIATIONS

A	AIR COMPRESSOR
AF	ABOVE FINISHED FLOOR
BDD	BACK DRAFT DAMPER
BDD	BOTTOM OF DUCT
CAL	COMBUSTION AIR LOUVER
CD	CEILING DIFFUSER
CF	CABINET HEATER
CUH	CIRCULATING PUMP (DOMESTIC HOT WATER)
CG	CONDENSATE
DFU	DRINKING WATER
DV	DRAIN, VENT
EAL	EXHAUST AIR LOUVER
EG	EXHAUST GRILLE
EH	EXHAUST HOOD
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
ENC	ELECTRIC WATER COOLER
FCD	FAN COIL UNIT
FDD	FAN VOLUME DAMPER
HAC	HOT AND COLD WATER
HRC	HEAT RECOVERY UNIT
HVU	HEATING & VENTILATING UNIT
HWA	HIGH WATER ALARM
HHL	HIGH WATER LEVEL
HH	HYDRAE HOOD
LD	LINEAR DIFFUSER
LC	LINEAR GRILLE
MAU	MAKE-UP AIR UNIT
MB	MOTOR OPERATED DAMPER
ODL	OUTDOOR AIR LOUVER
P	PUMP
RA	RETURN AIR
RAL	RETURN AIR LOUVER
RC	RETURN GRILLE
RH	RELIEF HOOD
RTU	ROOF TOP UNIT
SD	SMOKE DAMPER
SG	SUPPLY GRILLE
SP	SUMP PUMP
SPD	SUMP PUMP DISCHARGE
SR	SUPPLY REGISTER
SS	SAMPLE SHK
TOP	TEMPERATURE CONTROL PANEL
TD	TRANSFER DUCT
TG	TRANSFER GRILLE
TR	TRAP
TRP	TRAP PRESSURE
U	UNFAN
VD	VOLUME DAMPER (MANUAL)
VTR	VENT THROUGH ROOF
ASTU	WATER SUPPLY FAILURE UNITS

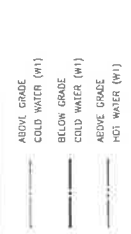
### VALVE SYMBOLS



### TEMPERATURE CONTROL SYMBOLS



### PIPE SPECIALTIES (PLUMBING)



NOTE: THIS LIST OF ABBREVIATIONS, SYMBOLS, AND SYMBOLOGY IS INTENDED TO BE USED IN THESE CONTRACT DRAWINGS.



**SYMBOLS LEGEND**

	Evergreen Tree
	Deciduous Tree
	Fruit Tree
	Shrub (Bushes)
	Lumber
	Hedge
	Sump
	Sewer
	Chain Link Fence
	Barbed Wire Fence
	Existing Water Line
	Existing Sanitary Sewer Line
	Existing Telephone Line
	Existing Fiber Optic Telephone Line
	Existing Storm Sewer Line
	Existing Gas Line
	Existing Power Line
	Cable Television Line
	Railroad
	Railroad Signal
	RRS
	RWS
	Section Corner
	Existing Intake
	Proposed Intake
	Existing Manhole
	Proposed Manhole
	Roof Drain
	Flag Pole
	C/D/A
	C/D/P
	Lot Corner Found
	Lot Corner Set
	Monitoring Well
	Guard Post

**GENERAL NOTES**

- ARRANGE WITH THE VARIOUS UTILITY COMPANIES FOR SUPPORT OR CONCESSIONS FOR THE REMOVAL OF UTILITY POLES OR STRUCTURES FOR TELEPHONE SUPPORT OR BOLLARDS. CONTACT IOWA ONE CALL (1-800-292-8989) FOR EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.
- WHERE PUBLIC UTILITY UTILITIES ARE SHOWN AS EXISTING ON DRAWINGS, THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THESE UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL AFFORD ACCESS TO UNDERGROUND UTILITIES, STRUCTURES AND UTILITIES HAVING THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE TO CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.
- PROVIDE, ERECT AND MAINTAIN AT ALL TIMES DURING THE PROGRESS AND COMPLETION OF THE WORK, THE NECESSARY SAFETY SIGNS AND ADEQUATE PROTECTION. PROVIDE, KEEP AND MAINTAIN SUCH LIGHTS, DANGER SIGNALS OR WATCHMEN AS MAY BE NECESSARY TO ENSURE SAFETY OF PUBLIC AS WELL AS THOSE ENGAGED IN THE WORK. BARRICADES AND LIGHTS SHALL BE MAINTAINED FROM SUNSET TO SUNRISE. BARRICADES AND LIGHTS SHALL CONFORM TO THE REQUIREMENTS OF "MANUAL IN UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION. ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE SUPPLEMENTAL SPECIFICATION FOR TRAFFIC CONTROL FOR STREET AND HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS.
- GRASSSED AREAS DISTURBED DURING CONSTRUCTION SHALL BE FINISH GRADED WITH 1 1/2 INCHES OF TOPSOIL, FERTILIZED, SEEDED AND MULCHED.
- FINISH GRADE AND CLEANUP IMMEDIATELY BEHIND EXCAVATION AND BACKFILL OPERATIONS TO MINIMIZE INCONVENIENCE TO PUBLIC.
- PROVIDE COMPACTED STRUCTURAL BACKFILL FOR TRENCHES BENEATH FC CONCRETE AND HMA PAVED SURFACES.
- GRADE ALL AREAS TO DRAIN.
- DO NOT DISTURB TREES UNLESS NOTED OTHERWISE.
- MINIMIZE DISTURBANCE TO EXISTING DRIVES, SIDEWALKS AND GRASSED AREAS.
- PROVIDE MIN. 5.5 FEET COVER OVER ALL WATER LINES.
- SAW CUT AND REMOVE MIN. 6" WIDE STRIP OF EXISTING PAVEMENT ALL LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING UNLESS OTHERWISE SHOWN. NO SEPARATE MEASUREMENTS, COST INCIDENTAL TO CONSTRUCTION.
- COST OF REMOVAL AND RELOCATION OF EXISTING SIGNS WITHIN LIMITS OF CONSTRUCTION IS INCIDENTAL TO PROJECT.
- COST FOR REMOVAL AND RELOCATION OF BOLLARDS ALONG EDGE OF ACCESS ROAD IS INCIDENTAL TO CONSTRUCTION.
- CONTRACTOR SHALL APPLY NECESSARY MOISTURE TO CONSTRUCTION AREA AND HAIL ROADS TO PREVENT SPREAD OF DUST.
- NO FERTILIZER OR OTHER CHEMICALS SHALL BE APPLIED WITHIN A 50-FOOT RADIUS OF MONITORING WELLS.
- MONITORING WELLS LOCATED NEAR CONSTRUCTION AREA SHALL NOT BE DAMAGED OR DISTURBED IN ANY MANNER. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED DUE TO DAMAGE TO MONITORING WELLS.
- USE BROWDER EXCAVATION FROM FUTURE CELL #1 TO CONSTRUCT EMBANKMENTS.
- WORK SHALL BE CONDUCTED IN ACCORDANCE WITH BLACK HAWK COUNTY SANITARY LANDFILL'S NPDES POLLUTION PREVENTION PLAN.
- COORDINATE WITH OWNER LOCATION OF EARTH BORROW AND CLAY BORROW WITHIN FUTURE CELL #1 SITE.
- ALL STORM SEWER AND CULVERTS ARE CLASS 3 REINFORCED CONCRETE.

**STAGING NOTES**

- STAGE CONSTRUCTION OF IMPROVEMENTS TO MAINTAIN CUSTOMER TRAFFIC OVER EXISTING SCALE. EXISTING ACCESS ROAD AND SHALL LOADS AREA, UNTIL NEW ACCESS ROAD, SCALE AND SCALE HOUSE ARE COMPLETE AND READY FOR OPERATION.
- COMPLETE AS MUCH NEW CONSTRUCTION AS POSSIBLE PRIOR TO PLACING NEW SCALE AND SCALE HOUSE IN OPERATION.
- STAGE PAVEMENT REMOVAL AND RECONSTRUCTION OR EXISTING ACCESS ROAD NORTH SIDE OF NEW SCALE TO PERMIT UNINTERRUPTED TRAFFIC MAINTENANCE OF ROAD AROUND SURFACE AND RESTORATION OF DISTURBED AREA AT CONTRACTOR'S EXPENSE IF REQUIRED TO STAGE UNINTERRUPTED ACCESS.
- DO NOT ROUTE TRAFFIC OVER NEW SCALE UNTIL NEW CROWDERS AND GRADERS IS TRANSITIONED TO OPERATION FROM OLD SCALE FACILITY TO NEW FACILITY.
- PROVIDE OWNER WITH DETAILED STAGING PLAN FOR OWNER AND ENGINEER REVIEW PRIOR TO COMMENCING PROJECT CONSTRUCTION.

**REVISIONS**

NO.	DATE	DESCRIPTION

**EarthTech**

A tyco International Ltd. Company

**CIVIL LEGEND AND GENERAL NOTES**

BLACK HAWK CO. SOLID WASTE COMMISSION  
SCALE AND ACCESS ROAD IMPROVEMENTS  
WATERLOO, IOWA


DATE: JUNE 2008  
PROJECT NUMBER: 083  
PLANNAME: 01-2-1-00N  
SHEET NO:  
DRAWING NO:  
G-04

**ESTIMATE REFERENCE NOTES**

1. REFER TO SECTION 11100.
2. INCLUDES NEW SCALE HOUSE, SURROUNDING DECK AREA, BARRIER GATES AND CONCRETE CURBS. ITEMS SHOWN ON PLANS OR OTHERWISE REQUIRED.
3. INCLUDES MOBILIZATION AND DEMOBILIZATION COSTS FOR COMPLETE PROJECT.
4. REFER TO SECTION 02211.
5. REFER TO SECTION 02211.
6. REFER TO SECTION 02211.
7. SALVAGE, STOCKPILE AND SPREADS (EARTH EXCAVATION AND EARTH FILL) IN THE SCALE AND SCALE HOUSE AREA LOCATED EAST AND NORTH OF ACCESS ROAD.
8. REFER TO SECTION 02515 AND TYPICAL CROSS SECTIONS.
9. REFER TO SECTION 02515 AND PLANS.
10. REFER TO SECTION 02511 AND TYPICAL CROSS SECTIONS.
11. REFER TO SECTION 02511 AND TYPICAL CROSS SECTIONS.
12. REFER TO SECTION 02511 AND TYPICAL CROSS SECTIONS.
13. INCLUDES CONCRETE OR ASPHALT REMOVAL AREAS INDICATED ON PLANS. REFER TO SECTION 02510.
14. REFER TO SECTION 02600 AND PLANS.
15. REFER TO SECTION 02610.
16. REFER TO SECTION 02610. STORM SEWER WILL BE MEASURED FROM END OF PIPE TO END OF PIPE (NOT INCLUDING APRONS) FOR PAYMENT. USE GASKETED JOINT PIPE.
17. REFER TO SECTION 02611. STORM SEWER WILL BE MEASURED FROM INSIDE WALL OF STRUCTURE TO INSIDE WALL OF STRUCTURE.
18. REFER TO SECTION 02611. STORM SEWER WILL BE MEASURED FROM END OF PIPE TO END OF PIPE (NOT INCLUDING APRONS) FOR PAYMENT. USE GASKETED JOINT PIPE. ALSO
19. INCLUDES PIPE CONNECTORS FOR LAST 3 PIPE JOINTS FROM END.
20. OUTLET APRONS INCLUDE: 1. DOT REF-14 TYPE 2 PIPE CONNECTORS ON APRON JOINT. REFER TO SECTION 02611.
21. REFER TO SECTION 02444.
22. REFER TO SECTION 02504.
23. REFER TO SECTION 02504.
24. REFER TO SECTION 02504. INCLUDES CURB STOP AND BOX AND TAPPING EXISTING LINE.
25. INCLUDES FURNISHING AND INSTALLATION OF GUARD POSTS PER PLAN DETAIL AT LOCATIONS INDICATED.
26. GUARD POSTS LOCATED ON SCALE HOUSE DECK ARE INCLUDED IN SCALE HOUSE BID PRICE.
27. NECESSARY WIRING COMPLETING CEMEXAS IN LOCATIONS SHOWN ON PLANS INCLUDING POLES AND ALL NECESSARY FURNISHING AND INSTALLING NEW GRATED PLATFORMS AND MODIFICATIONS TO EXISTING GRATED PLATFORMS AS REQUIRED AT THE LOCATIONS SHOWN.
28. INCLUDES REMOVAL AND DISPOSAL OF FENCE IN LOCATIONS SHOWN ON PLANS. NO SEPARATE PAYMENT FOR REMOVAL OF EXISTING SERVICE LINE.
29. REFER TO SECTION 02504. INCLUDES MEASUREMENT AND PAYMENT PER LINEAL FOOT INCLUDING FITTINGS.
30. MEASUREMENT AND PAYMENT PER LINEAL FOOT INCLUDING FITTINGS.
31. MALCH SEEDING AREAS NOT PROTECTED BY EROSION BLANKET IN ACCORDANCE WITH SECTION 2601.0B OF THE IDOT SPECS. MEASUREMENT AND PAYMENT TO NEAREST 0.1 ACRE.
32. SEED AND MULCH-DISTRIBUTED AREAS INDICATED ON PLANS REQUIREMENTS OF POLLUTION CONTROL PLAN. FERTILIZE AND FERTILIZER AND SEED DISTRIBUTED AREAS INDICATED ON PLANS WITH RURAL OR URBAN MIX SEEDING IN ACCORDANCE WITH SECTION 2601.0B OF THE IDOT SPECS. NO SEPARATE PAYMENT ALLOWED FOR DEBRIS AND ROCK BOXES FROM AND MULCH. MULCH SEEDING AREAS NOT SHOWING GROWTH FOR DURATION OF CONTRACT MAINTENANCE PERIOD.
33. PLANNING TO RECONSTRUCT EXISTING POLLUTION CONTROL PLAN. FERTILIZE AND FERTILIZER AND SEED DISTRIBUTED AREAS INDICATED ON PLANS WITH RURAL OR URBAN MIX SEEDING IN ACCORDANCE WITH SECTION 2601.0B OF THE IDOT SPECS. NO SEPARATE PAYMENT ALLOWED FOR DEBRIS AND ROCK BOXES FROM AND MULCH. MULCH SEEDING AREAS NOT SHOWING GROWTH FOR DURATION OF CONTRACT MAINTENANCE PERIOD.
34. TO DETERMINE EXCAVATION REQUIRED TO CONSTRUCT SILT FENCES IN LOCATIONS SHOWN AND OTHERWISE REQUIRED TO PREVENT EROSION AND SEDIMENTATION FROM THE PROJECT POLLUTION PREVENTION PLAN. CONSTRUCT SILT FENCES AS DETAILED ON IDOT STANDARD ROAD PLAN RS-109 AND IN ACCORDANCE WITH SECTION 2602 OF IDOT SPECS.
35. REMOVE SILT FENCE ONLY AFTER SEEDING AREAS ARE ADEQUATELY ESTABLISHED AS DETERMINED BY OWNER.
36. INCLUDES RELOCATION OF EXISTING SIGNAL LIGHTS, REMOVAL OF EXISTING SIGNAL LIGHTS AND CEMEXAS REMOVAL OF EXISTING SIGNAL LIGHTS, REMOVAL OF SALT STORAGE CLEAROUT, REMOVAL OF SALT STORAGE CONTAINED IN LIMITS OF CONSTRUCTION, PIPE AND APRON REMOVALS, AND OTHER SITE RELATED ITEMS NOT COVERED ELSEWHERE. REFER TO SECTION 02232.

**ESTIMATED QUANTITIES**

ITEM	DESCRIPTION	UNIT	ESTIMATED QUANTITY
1	100-Ton Pitless Scale complete	LS	1
2	Mobilization	LS	1
3	Access Road Topsoil Strip, Salvage and Stockpile	CY	2,181
4	Access Road Topsoil Spread	CY	6,568
5	9" Thick PC Concrete Paving	SY	7,150
6	6" Thick Modified Subbase	SY	5,598
7	6" Thick HMA Pavement	SY	8,535
8	4" Subgrade	SY	481
9	Type RE-15F Sulfurain Outlets	EA	288
10	15" RCP Storm Sewer	LF	2,280
11	15" RCP Storm Sewer	LF	52
12	15" RCP Storm Sewer	LF	48
13	Type RA-81 Inlet	EA	1
14	RCP Aprons	EA	1
15	12" Barbed and Jacked Casing Pipe	EA	2
16	4" PVC Sanitary Sewer Service	LF	43
17	1" Copper Water Service	LF	56
18	Water Service Connection	EA	1
19	Curb Stop and Box	EA	1
20	Video Camera Surveillance System	LS	12
21	Grated Walkway Platforms	LS	1
22	Fence Removal	LF	200
23	Chain Link Fence	LF	60
24	30-Ft. Electrically Operated Chain Link Gate	AC	2.6
25	Mulching	AC	1.3
26	Stabilization Mix Fertilizing and Seeding	AC	0.9
27	Urban Mix Fertilizing and Seeding	AC	0.4
28	Silt Fence Removal	LF	1,700
29	Traffic Control	LS	1
30	Site Preparation	LS	1



**EarthTech**  
A tyco International Ltd. Company

<p><b>QUANTITIES AND ESTIMATE REFERENCE</b></p> <p>BLACK HAWK CO. SOLID WASTE COMMISSION SCALE AND ACCESS ROAD IMPROVEMENTS WATERLOO, IOWA</p>	<p><b>DATE:</b> JUNE 2008 <b>PROJECT:</b> WATL08.000 <b>FILENAME:</b> 07-10-05.dwg <b>SHEET NO:</b> 7 <b>DRAWING NO:</b> G-05</p>
--	---

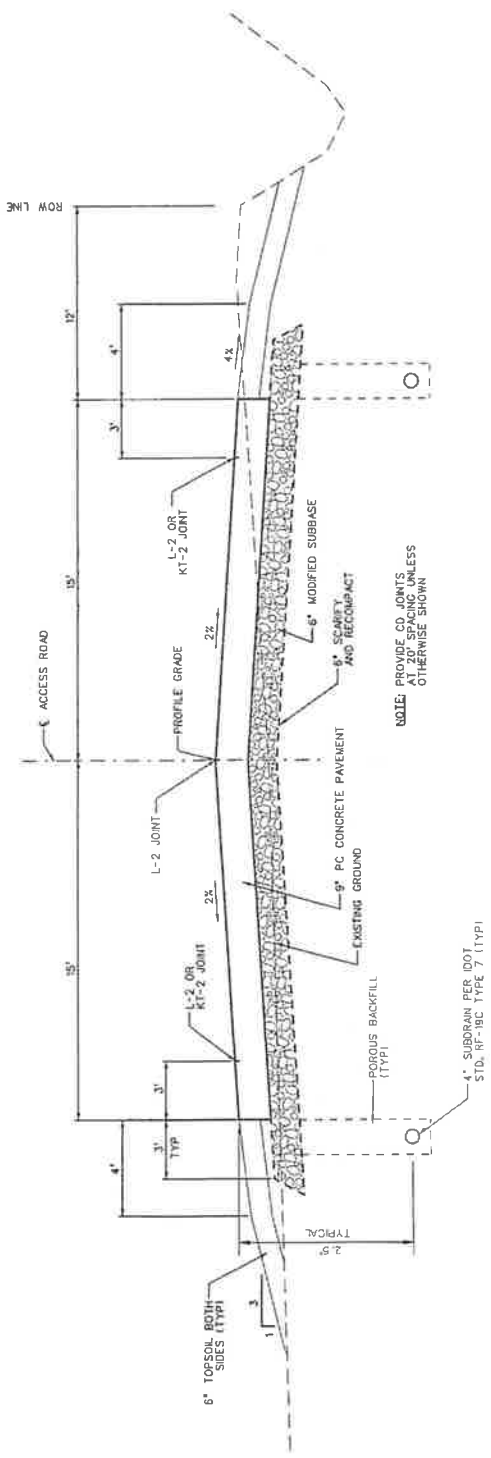
NO.	REVISED	DATE	BY	CHK	DATE

WATERLOO	DATE	BY	CHK

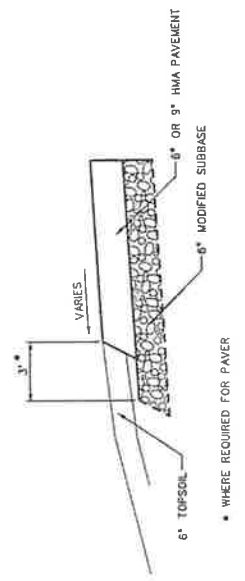
Copyright © 2008  
 EarthTech  
 A tyco International Ltd. Company

TYPICAL ROADWAY SECTION  
 SCALE AND ACCESS ROAD IMPROVEMENTS  
 WATERLOO, IOWA

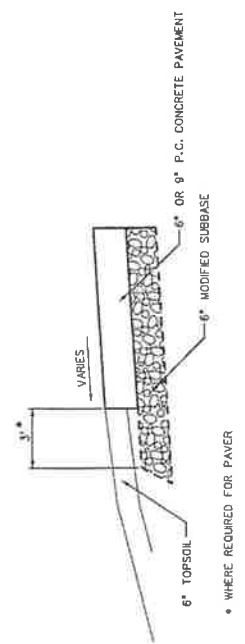
DATE: JUNE 2008  
 PROJECT NO: 0410.000  
 FILE NAME: 07-C-1008  
 SHEET NO:  
 DRAWING NO: C-01



TYPICAL ACCESS ROAD PAVEMENT CROSS SECTION 1  
 NTS



TYPICAL HMA PAVEMENT CROSS SECTION 3  
 NTS



TYPICAL SCALE AREA AND PARKING AREA P.C. PAVEMENT CROSS SECTION 2  
 NTS

NO.	REVISIONS	DATE

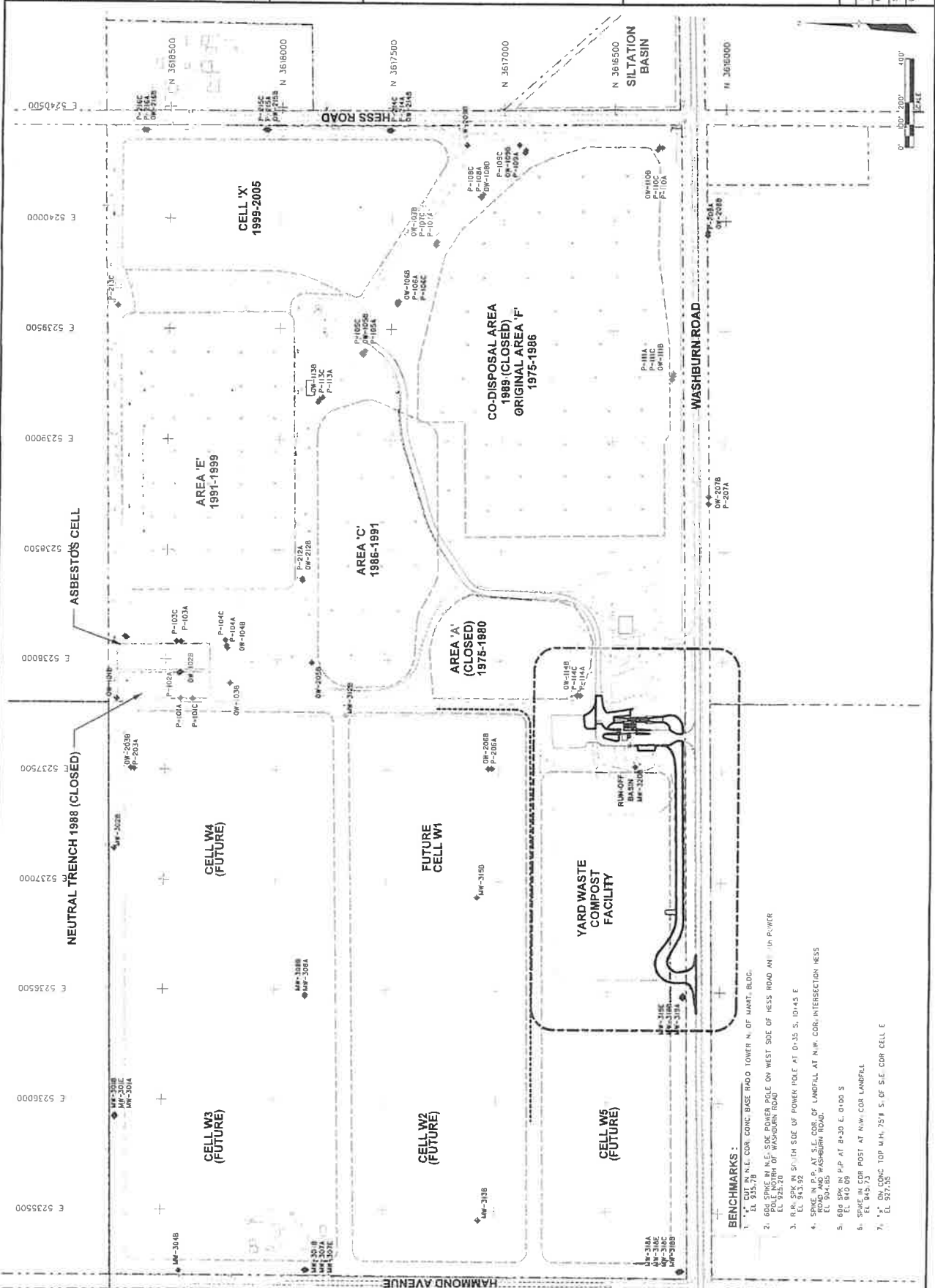
DATE	BY	CHKD	APP'D



A tyco International Ltd. Company

**GENERAL SITE PLAN  
AND BENCHMARKS**  
BLACK HAWK CO. SOLID WASTE COMMISSION  
SCALE AND ACCESS ROAD IMPROVEMENTS  
WATERLOO, IOWA

DATE: JUNE 2008  
PROJECT: 01-141-10-005  
SHEET NO.: 03-C-2.004  
DRAWING NO.:  
C-02



- BENCHMARKS:**
1. 1" x 1" N.E. COR. CONC. BASE ROAD TOWER N. OF MART. BLDG.  
EL. 935.78
  2. 60% SPIKE IN N.E. COR. POWER POLE ON WEST SIDE OF HESS ROAD AT 1/4" POWER POLE NORTH OF WASHBURN ROAD  
EL. 925.20
  3. 8" x 8" x 32" SPIKE IN S.W. COR. OF LANDFILL AT N.W. COR. INTERSECTION HESS ROAD AND WASHBURN ROAD.  
EL. 945.75
  4. SPIKE IN COR. POST AT 8+30 E. 0+00 S
  5. 8" x 8" x 32" SPIKE IN COR. POST AT N.W. COR. LANDFILL  
EL. 945.75
  7. 4" x 4" ON CONC. TOP M.H. 754 S. OF S.E. COR. CELL E  
EL. 937.35





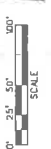
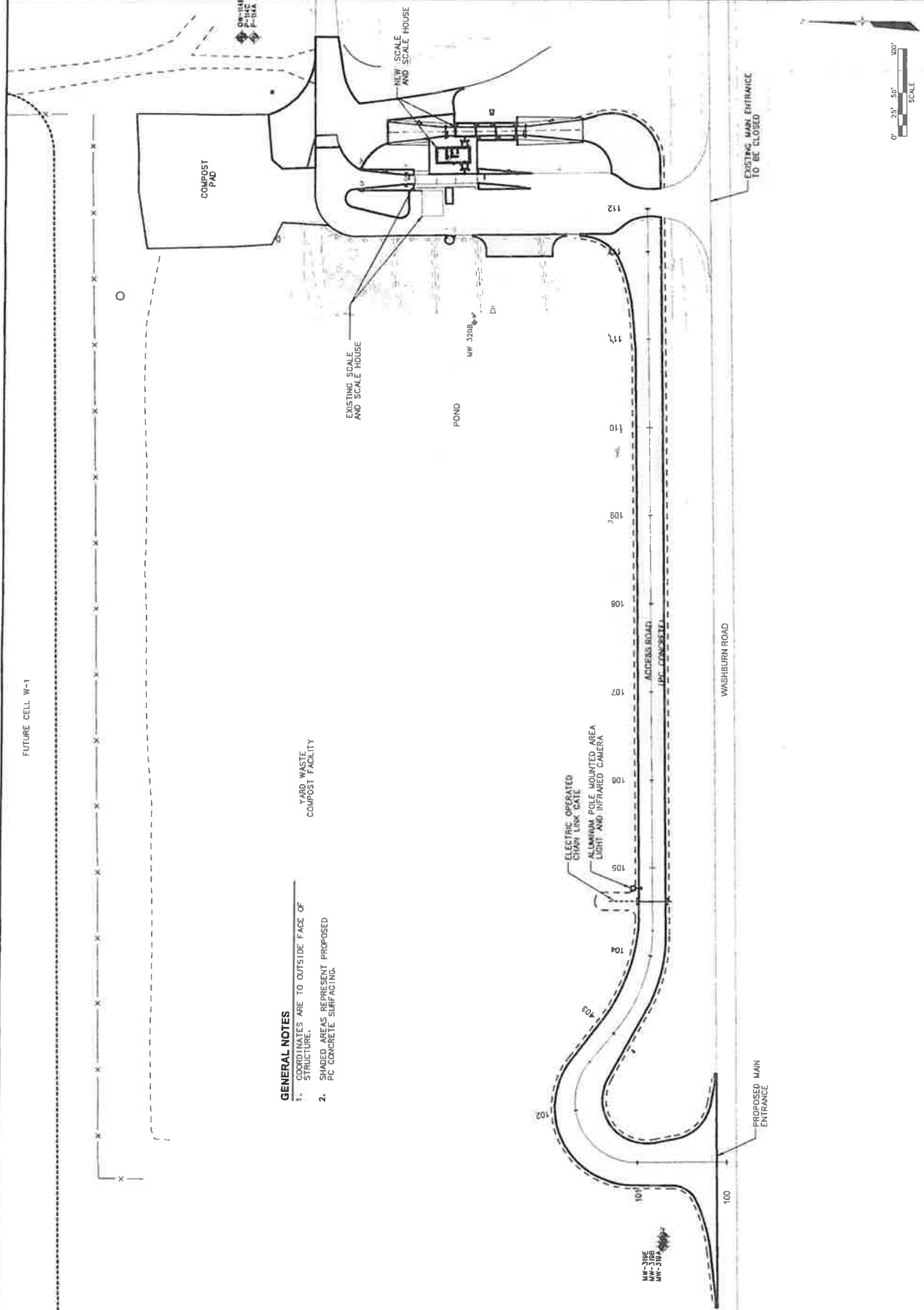
A tyco International Ltd. Company

NEW FACILITIES PLAN

BLACK HAWK CO. SOLID WASTE COMMISSION  
SCALE AND ACCESS ROAD IMPROVEMENTS  
WATERLOO, IOWA

DATE:	JUNE 2002
PROJECT NO.:	036435.02
FILE NAME:	CF-01.DWG
SHEET NO.:	
DRAWING NO.:	CF-01

NO.:		REVISIONS:	
DATE:			



**GENERAL NOTES**

1. COORDINATES ARE TO OUTSIDE FACE OF STRUCTURE.
2. SHADED AREAS REPRESENT PROPOSED PC CONCRETE SURFACING.

FUTURE CELL W-1

CF-01 - New Facilities Plan  
 DATE - 06/05/02  
 PROJECT NO. - 036435.02  
 FILE NAME - CF-01.DWG  
 SHEET NO. -  
 DRAWING NO. - CF-01





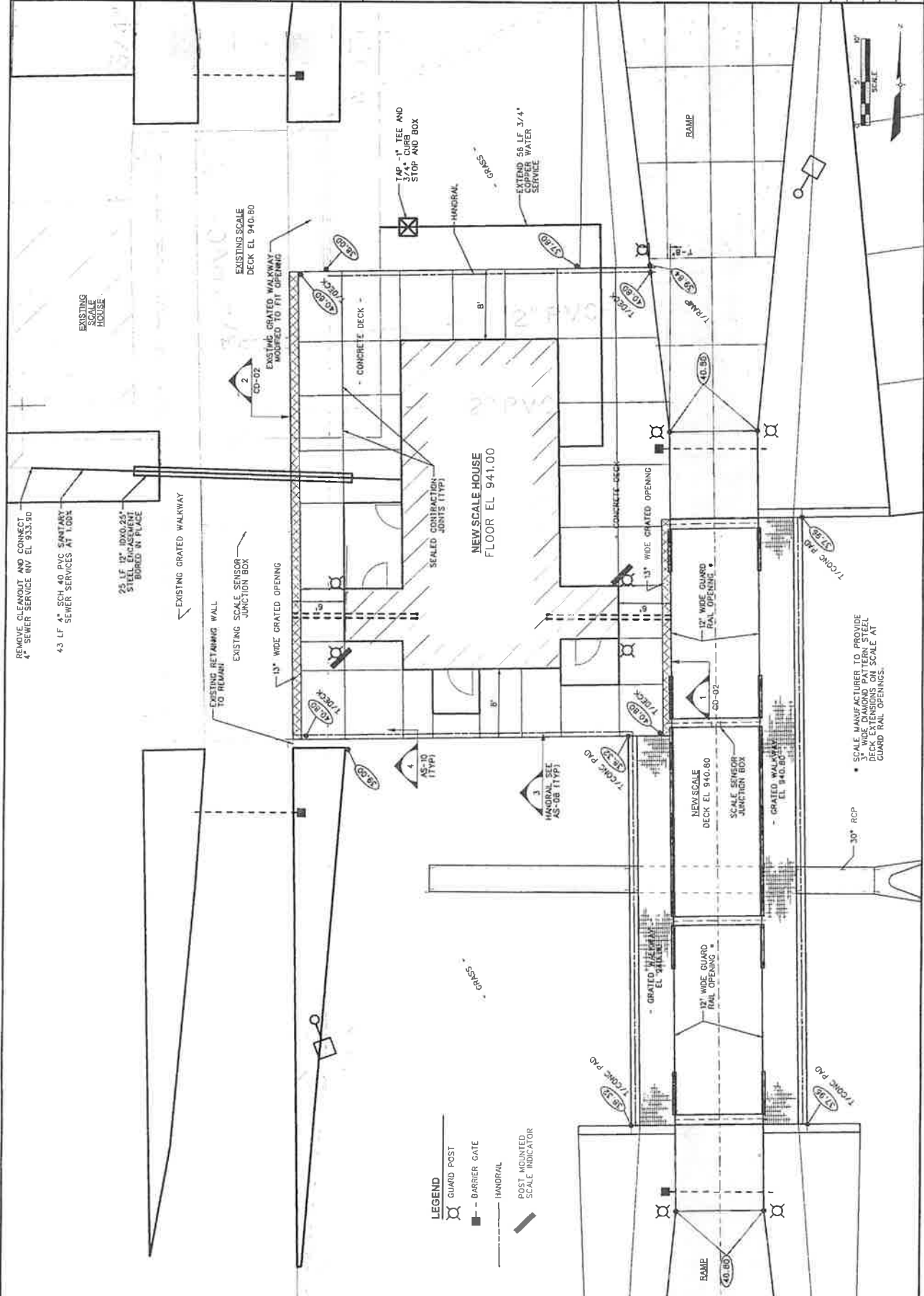
NEW FACILITIES AND  
 OUTSIDE PIPING PLAN



A tyco International Ltd. Company

NO.	REV.	DATE	DESCRIPTION

WATERLOO IOWA
CDM BSC
CHM
APR

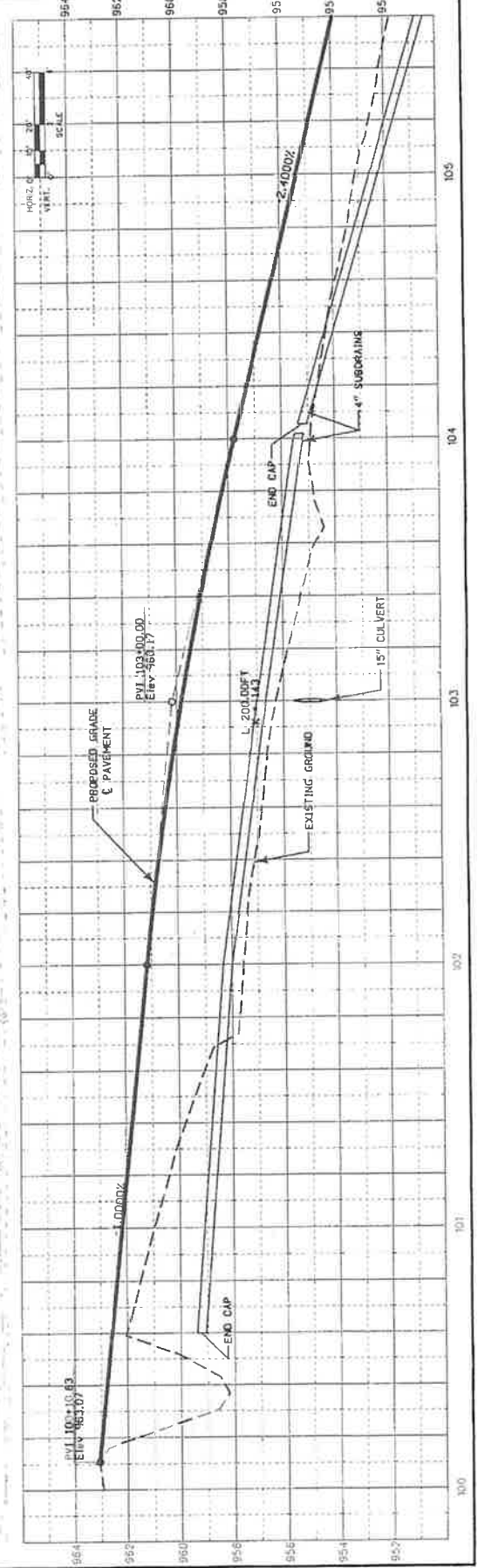
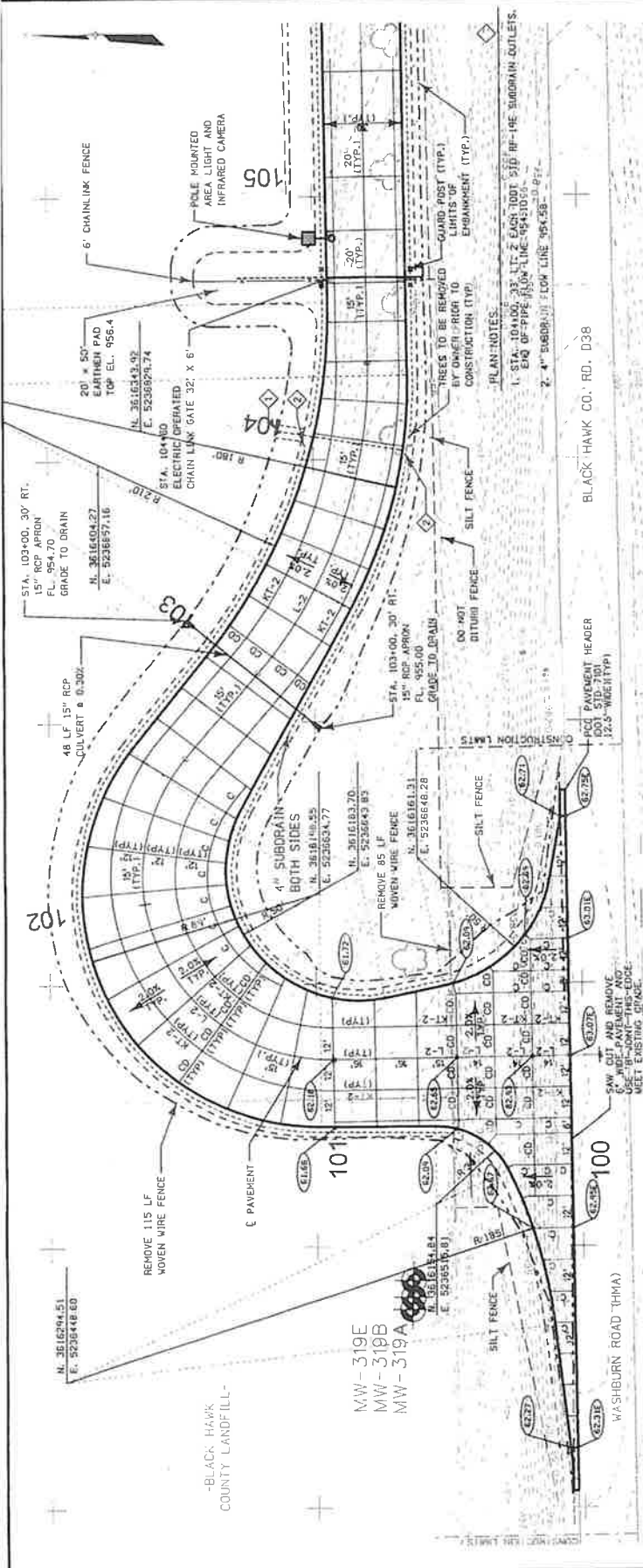


REMOVE CLEANOUT AND CONNECT 4" SEWER SERVICE INV EL 933.30  
 4.3 LF 4" SCH 40 PVC SANITARY SEWER SERVICES AT 1,000'  
 25 LF 12" DIA, 25# STIFF POLYPROPYLENE BORED IN PLACE  
 EXISTING GRATED WALKWAY  
 EXISTING RETAINING WALL TO REMAIN  
 EXISTING SCALE SENSOR JUNCTION BOX  
 13" WIDE GRATED OPENING  
 SEALED CONTRACTION JOINTS (TYP)



\* SCALE MANUFACTURER TO PROVIDE 3" WIDE DIAMOND PATTERN STEEL DECK EXTENSIONS ON SCALE AT GUARD RAIL OPENINGS.





STATION	ELEVATION	DESCRIPTION
100+00	952.28	4" SUBDRAIN
100+00	952.32	4" SUBDRAIN
100+00	952.36	4" SUBDRAIN
100+00	952.40	4" SUBDRAIN
100+00	952.44	4" SUBDRAIN
100+00	952.48	4" SUBDRAIN
100+00	952.52	4" SUBDRAIN
100+00	952.56	4" SUBDRAIN
100+00	952.60	4" SUBDRAIN
100+00	952.64	4" SUBDRAIN
100+00	952.68	4" SUBDRAIN
100+00	952.72	4" SUBDRAIN
100+00	952.76	4" SUBDRAIN
100+00	952.80	4" SUBDRAIN
100+00	952.84	4" SUBDRAIN
100+00	952.88	4" SUBDRAIN
100+00	952.92	4" SUBDRAIN
100+00	952.96	4" SUBDRAIN
100+00	953.00	4" SUBDRAIN

DATE	BY	CHKD	APP'D

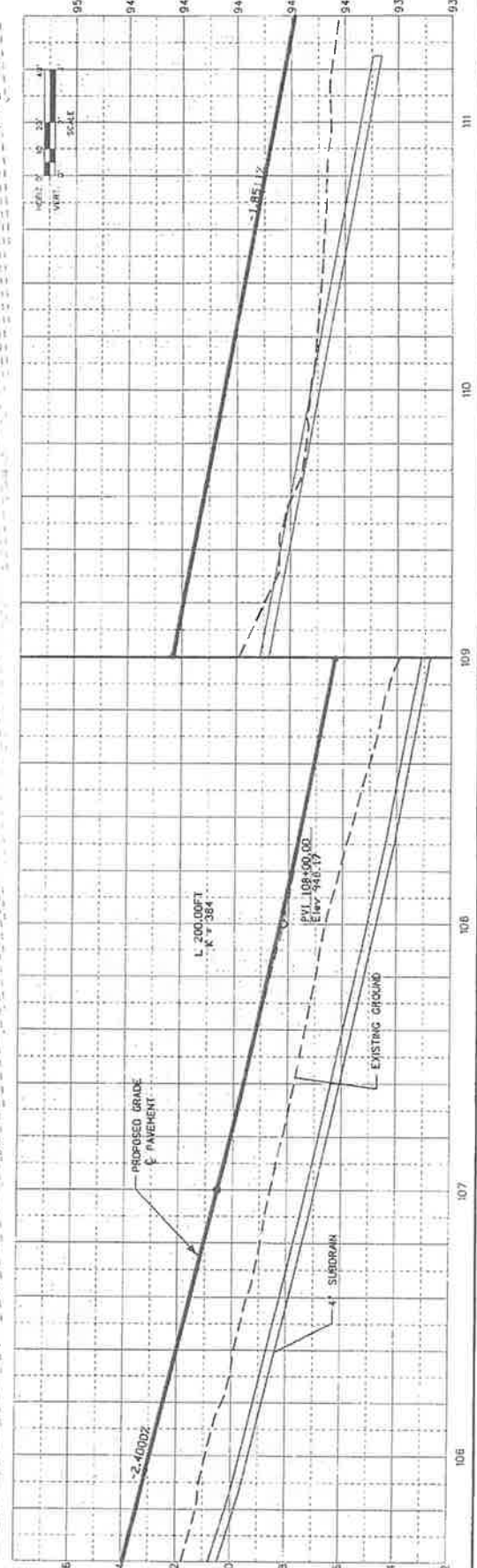
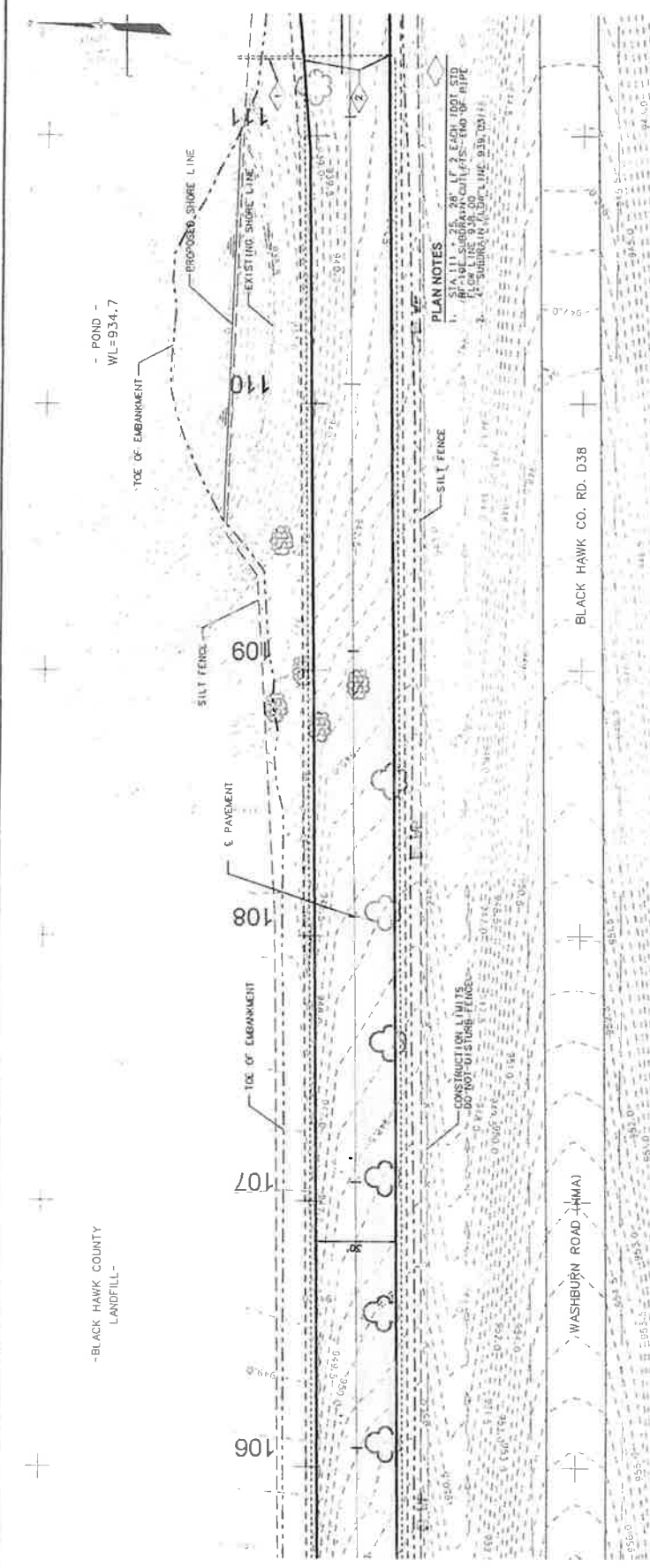
NO.	DATE	DESCRIPTION
1	08/22/11	ISSUED FOR PERMIT
2	09/01/11	REVISED PER COMMENTS
3	09/08/11	REVISED PER COMMENTS
4	09/15/11	REVISED PER COMMENTS
5	09/22/11	REVISED PER COMMENTS
6	10/01/11	REVISED PER COMMENTS
7	10/15/11	REVISED PER COMMENTS
8	10/22/11	REVISED PER COMMENTS
9	11/01/11	REVISED PER COMMENTS
10	11/15/11	REVISED PER COMMENTS
11	12/01/11	REVISED PER COMMENTS
12	12/15/11	REVISED PER COMMENTS
13	01/01/12	REVISED PER COMMENTS
14	01/15/12	REVISED PER COMMENTS
15	02/01/12	REVISED PER COMMENTS
16	02/15/12	REVISED PER COMMENTS
17	03/01/12	REVISED PER COMMENTS
18	03/15/12	REVISED PER COMMENTS
19	04/01/12	REVISED PER COMMENTS
20	04/15/12	REVISED PER COMMENTS
21	05/01/12	REVISED PER COMMENTS
22	05/15/12	REVISED PER COMMENTS
23	06/01/12	REVISED PER COMMENTS
24	06/15/12	REVISED PER COMMENTS
25	07/01/12	REVISED PER COMMENTS
26	07/15/12	REVISED PER COMMENTS
27	08/01/12	REVISED PER COMMENTS
28	08/15/12	REVISED PER COMMENTS
29	09/01/12	REVISED PER COMMENTS
30	09/15/12	REVISED PER COMMENTS
31	10/01/12	REVISED PER COMMENTS
32	10/15/12	REVISED PER COMMENTS
33	11/01/12	REVISED PER COMMENTS
34	11/15/12	REVISED PER COMMENTS
35	12/01/12	REVISED PER COMMENTS
36	12/15/12	REVISED PER COMMENTS
37	01/01/13	REVISED PER COMMENTS
38	01/15/13	REVISED PER COMMENTS
39	02/01/13	REVISED PER COMMENTS
40	02/15/13	REVISED PER COMMENTS
41	03/01/13	REVISED PER COMMENTS
42	03/15/13	REVISED PER COMMENTS
43	04/01/13	REVISED PER COMMENTS
44	04/15/13	REVISED PER COMMENTS
45	05/01/13	REVISED PER COMMENTS
46	05/15/13	REVISED PER COMMENTS
47	06/01/13	REVISED PER COMMENTS
48	06/15/13	REVISED PER COMMENTS
49	07/01/13	REVISED PER COMMENTS
50	07/15/13	REVISED PER COMMENTS
51	08/01/13	REVISED PER COMMENTS
52	08/15/13	REVISED PER COMMENTS
53	09/01/13	REVISED PER COMMENTS
54	09/15/13	REVISED PER COMMENTS
55	10/01/13	REVISED PER COMMENTS
56	10/15/13	REVISED PER COMMENTS
57	11/01/13	REVISED PER COMMENTS
58	11/15/13	REVISED PER COMMENTS
59	12/01/13	REVISED PER COMMENTS
60	12/15/13	REVISED PER COMMENTS
61	01/01/14	REVISED PER COMMENTS
62	01/15/14	REVISED PER COMMENTS
63	02/01/14	REVISED PER COMMENTS
64	02/15/14	REVISED PER COMMENTS
65	03/01/14	REVISED PER COMMENTS
66	03/15/14	REVISED PER COMMENTS
67	04/01/14	REVISED PER COMMENTS
68	04/15/14	REVISED PER COMMENTS
69	05/01/14	REVISED PER COMMENTS
70	05/15/14	REVISED PER COMMENTS
71	06/01/14	REVISED PER COMMENTS
72	06/15/14	REVISED PER COMMENTS
73	07/01/14	REVISED PER COMMENTS
74	07/15/14	REVISED PER COMMENTS
75	08/01/14	REVISED PER COMMENTS
76	08/15/14	REVISED PER COMMENTS
77	09/01/14	REVISED PER COMMENTS
78	09/15/14	REVISED PER COMMENTS
79	10/01/14	REVISED PER COMMENTS
80	10/15/14	REVISED PER COMMENTS
81	11/01/14	REVISED PER COMMENTS
82	11/15/14	REVISED PER COMMENTS
83	12/01/14	REVISED PER COMMENTS
84	12/15/14	REVISED PER COMMENTS
85	01/01/15	REVISED PER COMMENTS
86	01/15/15	REVISED PER COMMENTS
87	02/01/15	REVISED PER COMMENTS
88	02/15/15	REVISED PER COMMENTS
89	03/01/15	REVISED PER COMMENTS
90	03/15/15	REVISED PER COMMENTS
91	04/01/15	REVISED PER COMMENTS
92	04/15/15	REVISED PER COMMENTS
93	05/01/15	REVISED PER COMMENTS
94	05/15/15	REVISED PER COMMENTS
95	06/01/15	REVISED PER COMMENTS
96	06/15/15	REVISED PER COMMENTS
97	07/01/15	REVISED PER COMMENTS
98	07/15/15	REVISED PER COMMENTS
99	08/01/15	REVISED PER COMMENTS
100	08/15/15	REVISED PER COMMENTS

**EarthTech**  
A tyco International Ltd. Company

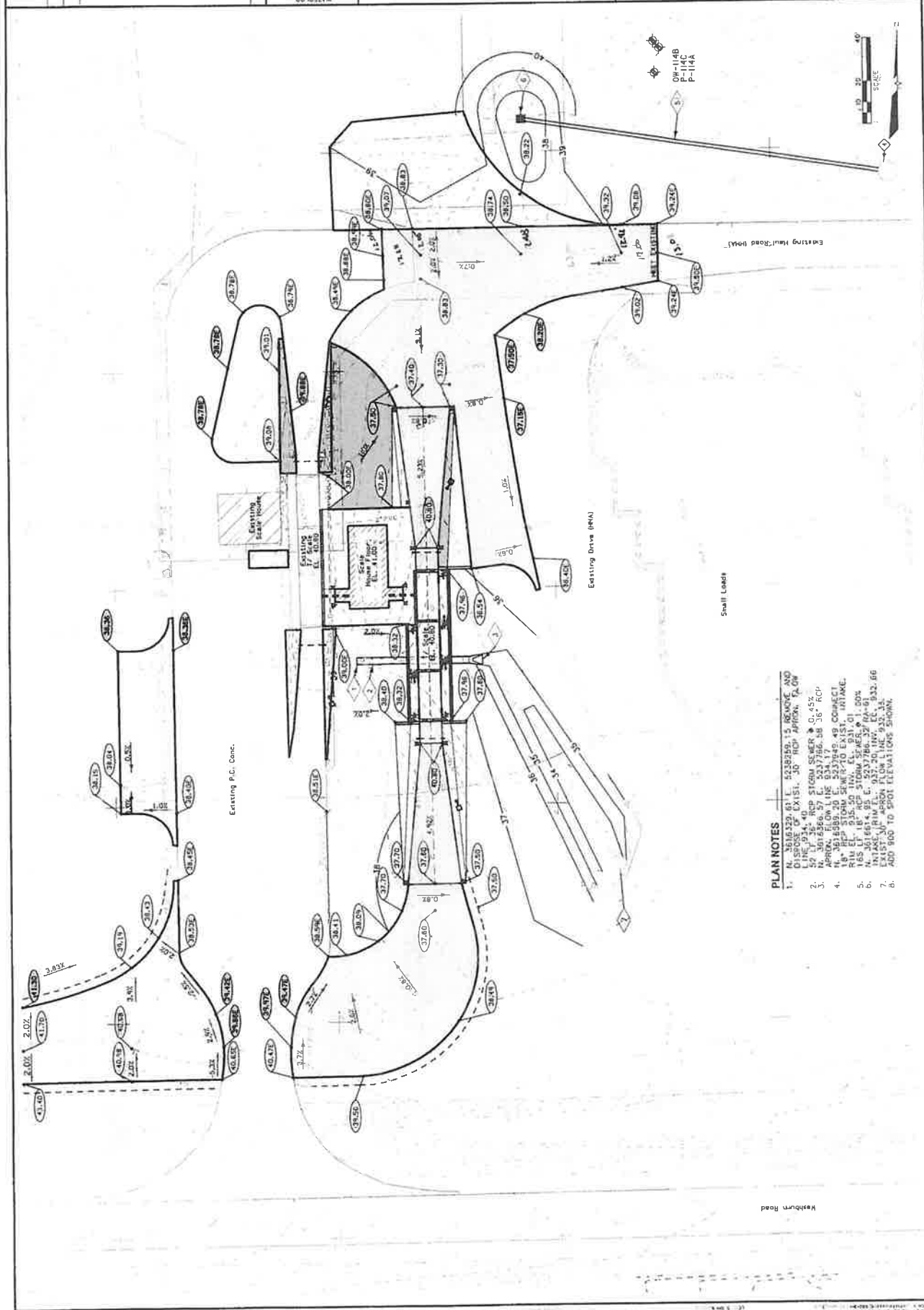
**ACCESS ROAD GRADING**  
**PLAN AND PROFILE**  
BLACK HAWK CO. SOIL WASTE COMMISSION  
SCALE AND ACCESS ROAD IMPROVEMENTS  
WATERLOO, IOWA

DATE: JUNE 2008  
PROJECT NO: 060110.000  
PLAN NO: 060110.000  
SHEET NO: 060110.000

DRAWING NO: CG-02



REVISIONS	DATE	BY	CHK



- PLAN NOTES**
1. N. 3616329.61 L. 4220259.15 REMOVE AND DISPOSE OF EXIST. 30" HCP APPROX. 12.0M
  2. 50' L. 36" RCP STORM SEWER @ 0.45%
  3. N. 3616326.57 L. 5277566.58 36" RCP
  4. N. 3616326.57 L. 5277566.58 36" RCP
  5. N. 3616326.57 L. 5277566.58 36" RCP
  6. N. 3616326.57 L. 5277566.58 36" RCP
  7. N. 3616326.57 L. 5277566.58 36" RCP
  8. ADD '900 TO SPOT ELEVATIONS SHOWN.

NO.	REVISIONS	DATE
1	APPROVAL NO. 1	07/20/08

WATERLOO, IOWA

EarthTech

A tyco International Ltd. Company

PROJECT NO. 07-0001

DATE: JUNE 2006

PROJECT: SILENT RIBBON

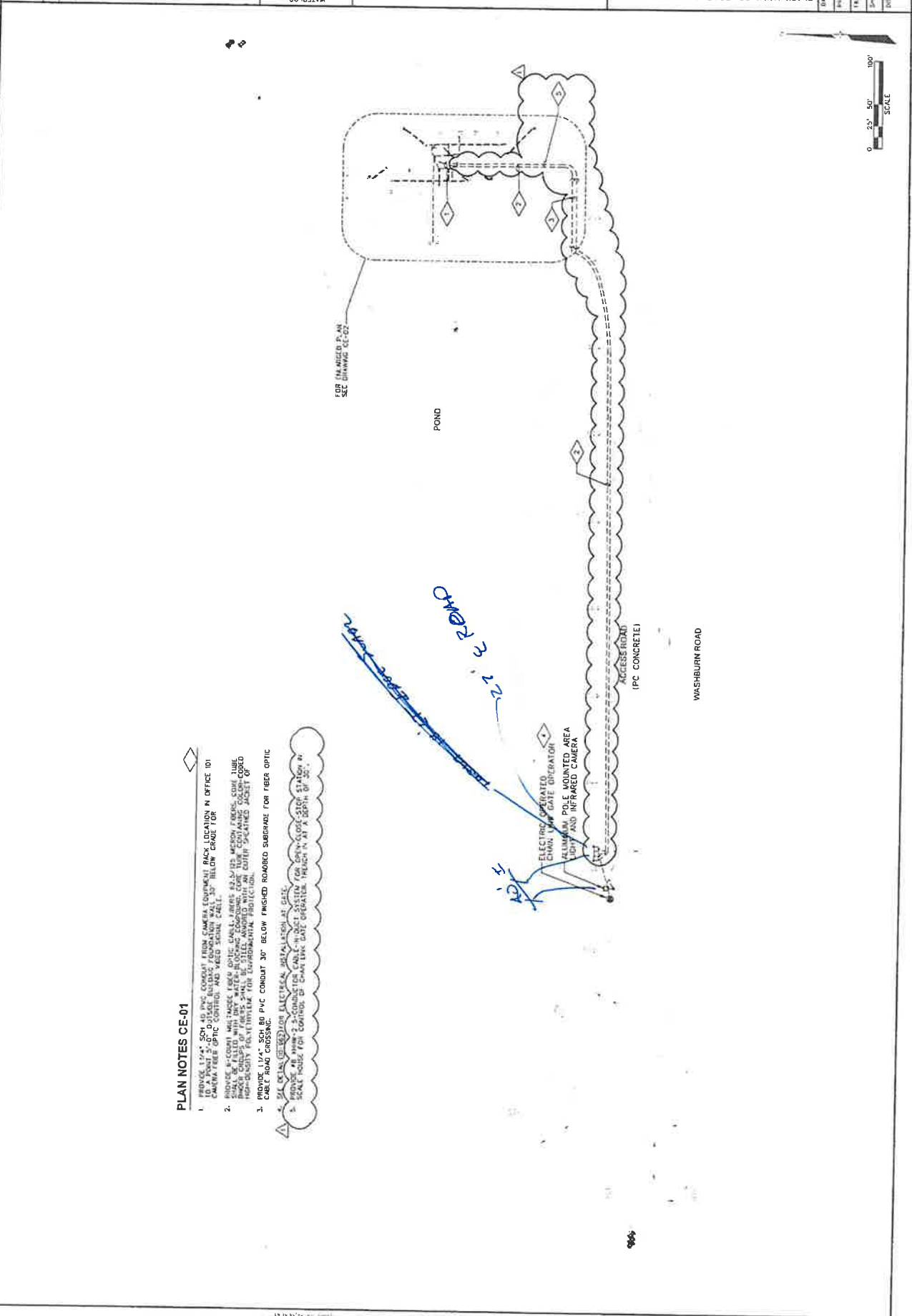
CLIENT: BLACK HAWK CO. SOLID WASTE COMMISSION

SCALE AND ACCESS ROAD IMPROVEMENTS

WATERLOO, IOWA

ELECTRICAL SITE PLAN

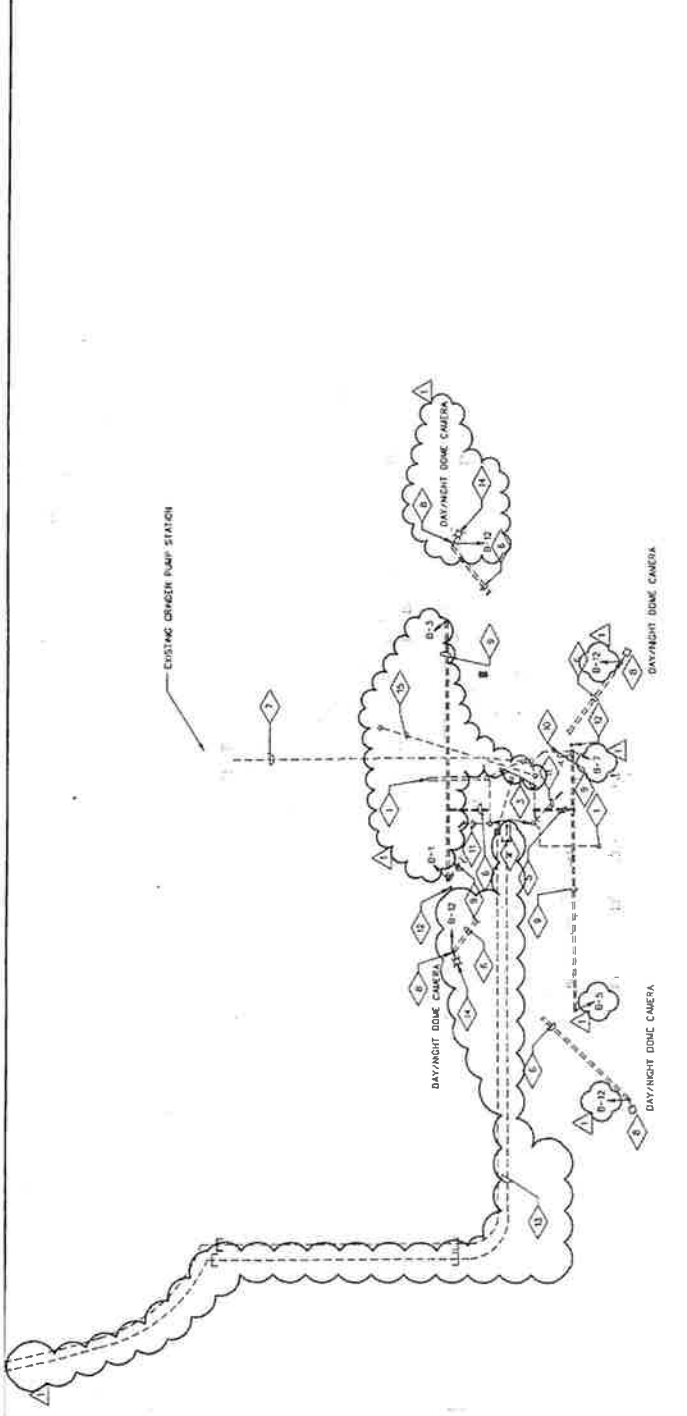
DRAWING NO. CE-01



**PLAN NOTES CE-01**

1. PROVIDE 1 1/4" SCH 40 PVC CONDUIT FROM CAMERA EQUIPMENT RACK LOCATION IN OFFICE TO POINT 2' OUT OF BUILDING FOUNDATION WALL 30" BELOW GRADE FOR CABLE. USE OPTIC CONTROL AND VIDEO SIGNAL CABLE.
2. PROVIDE 1 1/4" SCH 40 PVC CONDUIT FROM CAMERA EQUIPMENT RACK TO MOUNTED AREA LIGHT AND INFRARED CAMERA. CABLE SHALL BE FILLED WITH DRY WATER PROOF CABLE JACKET. PROVIDE 1/2" MESH FIBERGLASS CONDUIT TUBE SHALL BE FILLED WITH DRY WATER PROOF CABLE JACKET. PROVIDE 1/2" MESH FIBERGLASS CONDUIT TUBE SHALL BE FILLED WITH DRY WATER PROOF CABLE JACKET. PROVIDE 1/2" MESH FIBERGLASS CONDUIT TUBE SHALL BE FILLED WITH DRY WATER PROOF CABLE JACKET. PROVIDE 1/2" MESH FIBERGLASS CONDUIT TUBE SHALL BE FILLED WITH DRY WATER PROOF CABLE JACKET. PROVIDE 1/2" MESH FIBERGLASS CONDUIT TUBE SHALL BE FILLED WITH DRY WATER PROOF CABLE JACKET.
3. PROVIDE 1 1/4" SCH 40 PVC CONDUIT 30" BELOW FINISHED GRADE SUBGRADE FOR FIBER OPTIC CABLE ROAD CROSSING.
4. ALL CABLES TO BE USED FOR ELECTRICAL INSTALLATION AT GATE.
5. PROVIDE 10' X 10' X 8' SCALE HOUSE FOR CONTROL OF CHAIN LINK GATE OPERATOR. INDICATED BY A CIRCLED 'X'.

DATE	BY	CHKD.	APP. DATE
07/27/06			



**PLAN NOTES CE-02**

1. PROVIDE TWO (2) 1" RIGID METAL CONDUIT FROM POINTED WELD AS JUNCTION PROVIDED WITH SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER.
2. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER.
3. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER.
4. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER.
5. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER.
6. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER.
7. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER.
8. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER.
9. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER.
10. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER.
11. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER.
12. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER.
13. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER.
14. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER. PROVIDE TWO (2) 1" RIGID METAL CONDUIT TO SCALE SUPPLIER.
15. RE-FEED EXISTING SCALE HOUSE FROM NEW SCALE HOUSE PANEL LPA.



Copyright 2006 EarthTech, Inc. All rights reserved. This drawing is the property of EarthTech, Inc. and is not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of EarthTech, Inc. The user of this drawing agrees to hold EarthTech, Inc. harmless from and against all claims, damages, and expenses, including reasonable attorneys' fees, that may be asserted against EarthTech, Inc. by any third party as a result of the use of this drawing. The user of this drawing also agrees to indemnify, defend, and hold EarthTech, Inc. harmless from and against all claims, damages, and expenses, including reasonable attorneys' fees, that may be asserted against EarthTech, Inc. by any third party as a result of the use of this drawing. The user of this drawing also agrees to hold EarthTech, Inc. harmless from and against all claims, damages, and expenses, including reasonable attorneys' fees, that may be asserted against EarthTech, Inc. by any third party as a result of the use of this drawing.

NO.	REV.	DATE	DESCRIPTION

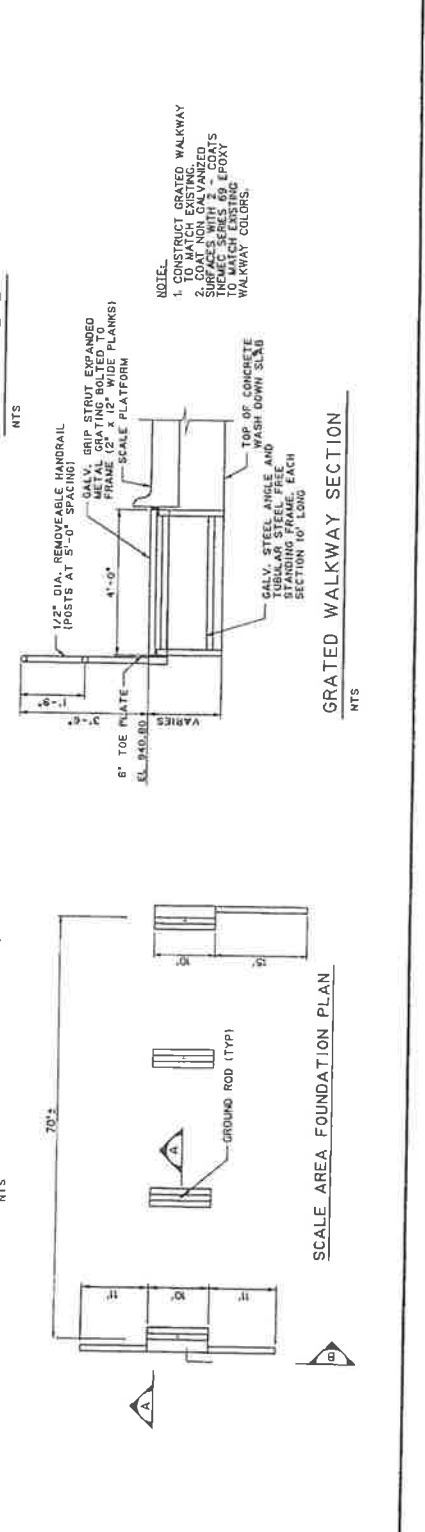
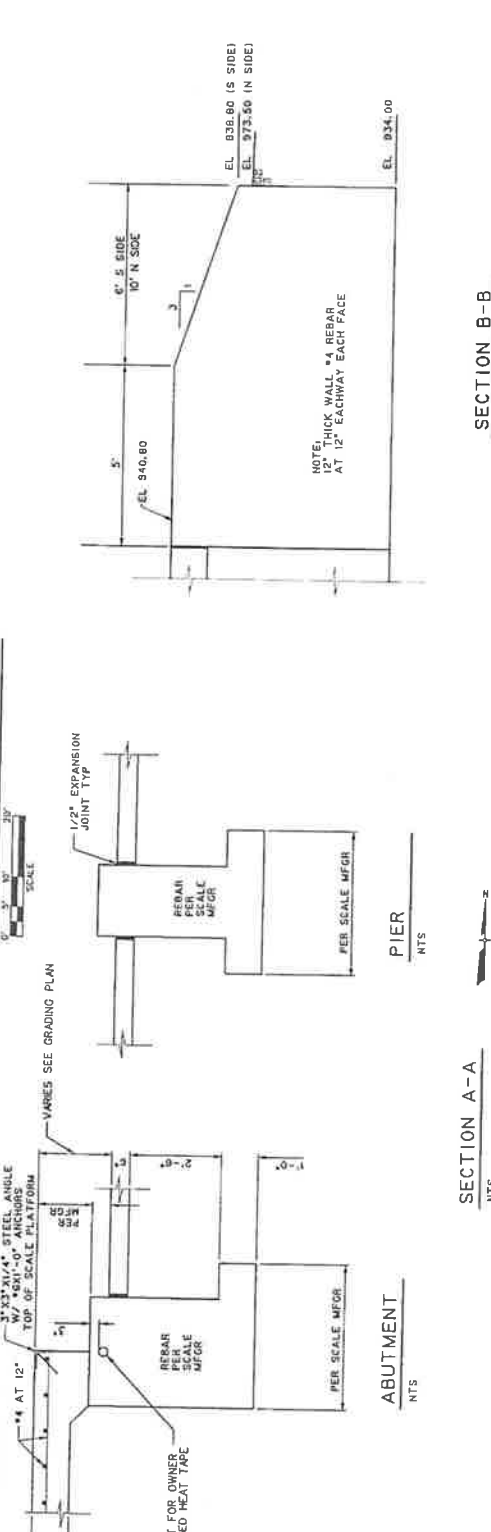
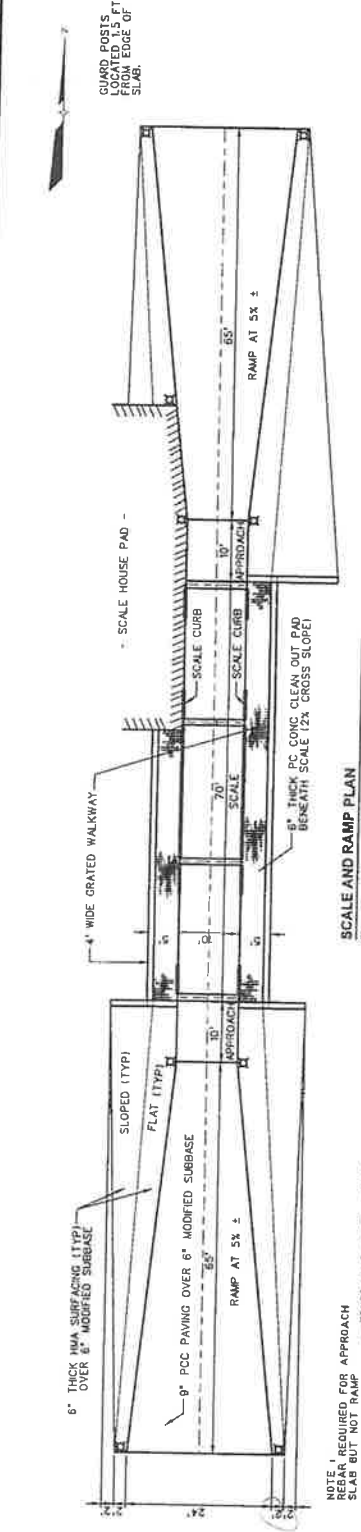
DATE	NO.	REV.	DATE

**EarthTech**  
A tyco International Ltd. Company

**SCALE DETAILS**

BLACK HAWK CO. SOLID WASTE COMMISSION  
SCALE AND ACCESS ROAD IMPROVEMENTS  
WATERLOO, IOWA

DATE: 08/26/2008  
PROJECT NO: 0410.000  
SHEET NO: 0410.000  
DRAWING NO: CD-01



CLUMP POSTS LOCATED 1 FT FROM EDGE OF SLAB.

NOTE: 1. CONSTRUCT GRATED WALKWAY TO MATCH EXISTING. 2. CONSTRUCT CHALVANIZED TRIMMED SERIES 69 EPOXY 5 TO MATCH EXISTING WALKWAY COLOURS.

NOTE: 1. REQUIRED FOR APPROACH SLAB BUT NOT RAMP. 2. 3" x 21/4" STEEL ANGLE WITH 3/8" x 3/8" x 0" ANCHORS TOP OF SCALE PLATFORM. 3. PVC CONDUIT FOR OWNER FURNISHED HEAT TAPE.

NOTE: 1. THICK PCC CONC. CLEAN OUT RID BENEATH SCALE (2% CROSS SLOPE).

NOTE: 12" THICK WALL #4 REBAR AT 12" EACHWAY EACH FACE.

NOTE: 1. 1/2" DIA. REMOVEABLE HANDRAIL (POSTS AT 5'-0" SPACING). 2. GALV. GRIP STRUT EXPANDED FRAME (2" x 12" WIDE PLANKS). 3. 6" TOE PLATE. 4. 1'-0" SECTION 10' LONG.

NOTE: 1. GALV. STEEL ANGLE AND WASH DOWN SLID. 2. GALV. STEEL ANGLE AND WASH DOWN SLID. 3. SECTION 10' LONG.



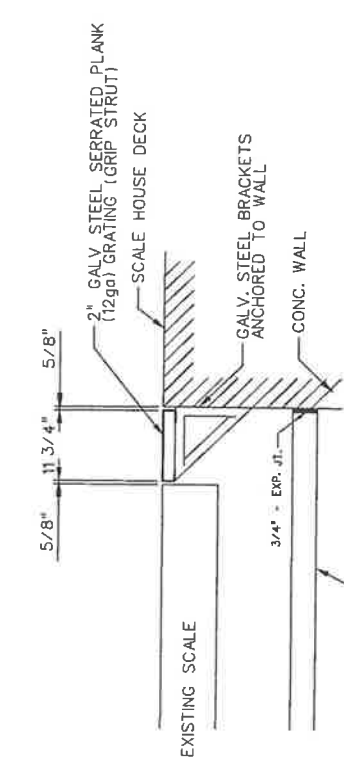
NO.	REVISIONS	DATE

DATE	BY	CHECKED	DATE

EarthTech  
A tyco International Ltd. Company

SCALE SECTIONS  
BLACK HAWK CO. SOLID WASTE COMMISSION  
SCALE AND ACCESS ROAD IMPROVEMENTS  
WATERLOO, IOWA

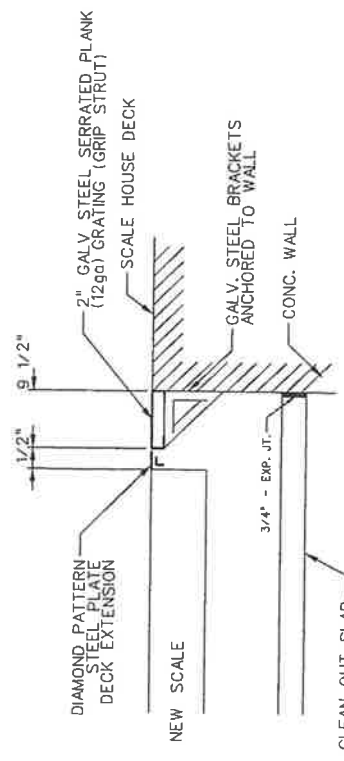
DATE: JUNE 2006  
PROJECT NO.: 03/06/0001  
FOUNDED: 1988  
SHEET NO.:  
DRAWING NO.: CD-02



EXISTING SCALE GRATED  
OPENING DETAIL SECTION

2

NTS



NEW SCALE GUIDE RAIL  
OPENING DETAIL SECTION

1

NTS

NOTE:  
NO SCALE DECK EXTENSION  
REQUIRED AT SCALE  
GUIDE RAIL



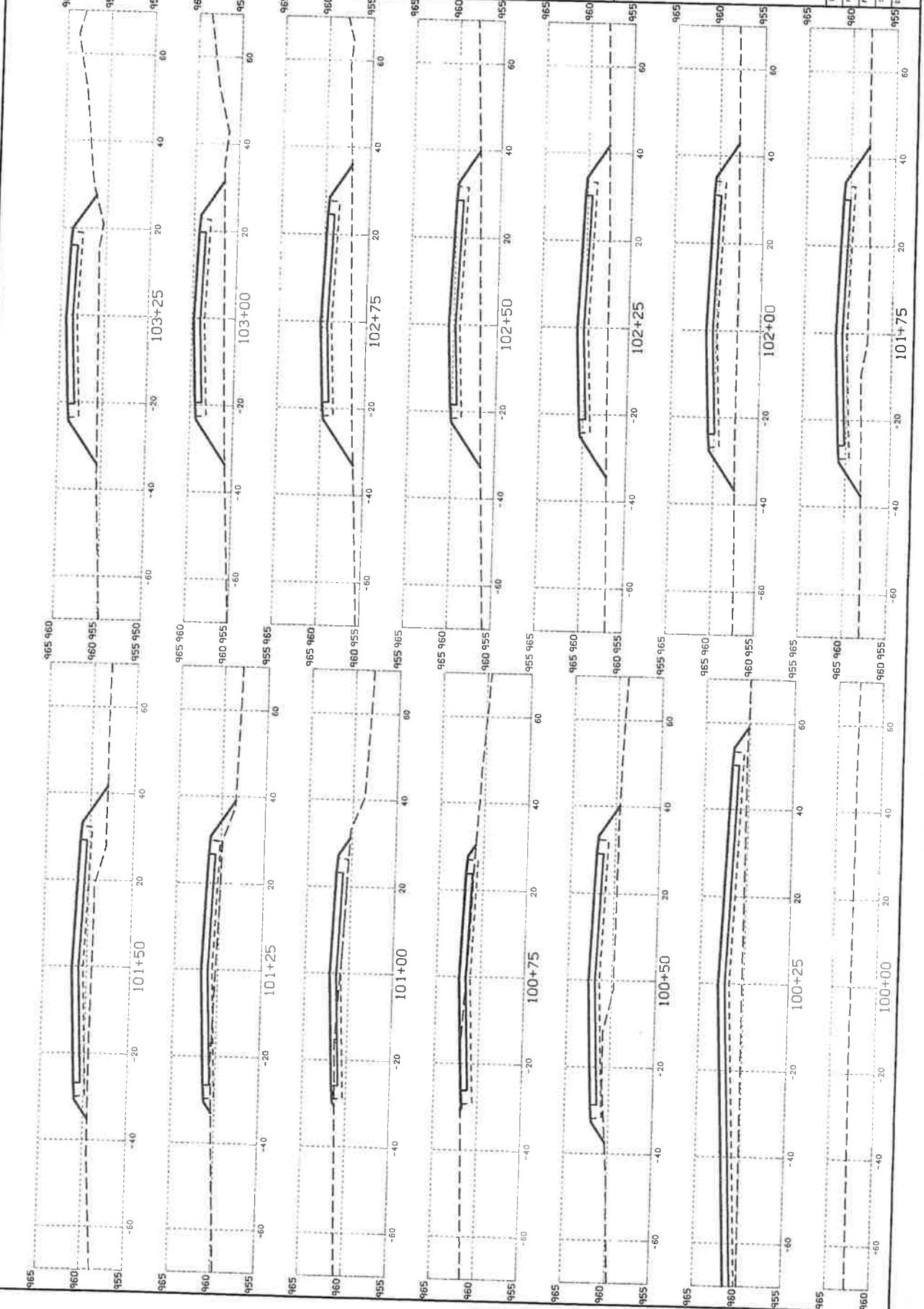
A tyco International Ltd. Company

BLACK HAWK CO. SOILD WASTE COMMISSION  
SCALE AND ACCESS ROAD IMPROVEMENTS  
WATERLOO, IOWA  
STA. 100+00 TO STA. 103+25

DATE: JUNE 2006  
PROJECT NO. 03-00-003  
SHEET NO. 14-00-003  
SHEET TITLE: 14-00-003

CX-01

REV	DATE	DESCRIPTION



101+00 101+25 101+50 102+00 102+25 102+50 102+75 103+00 103+25

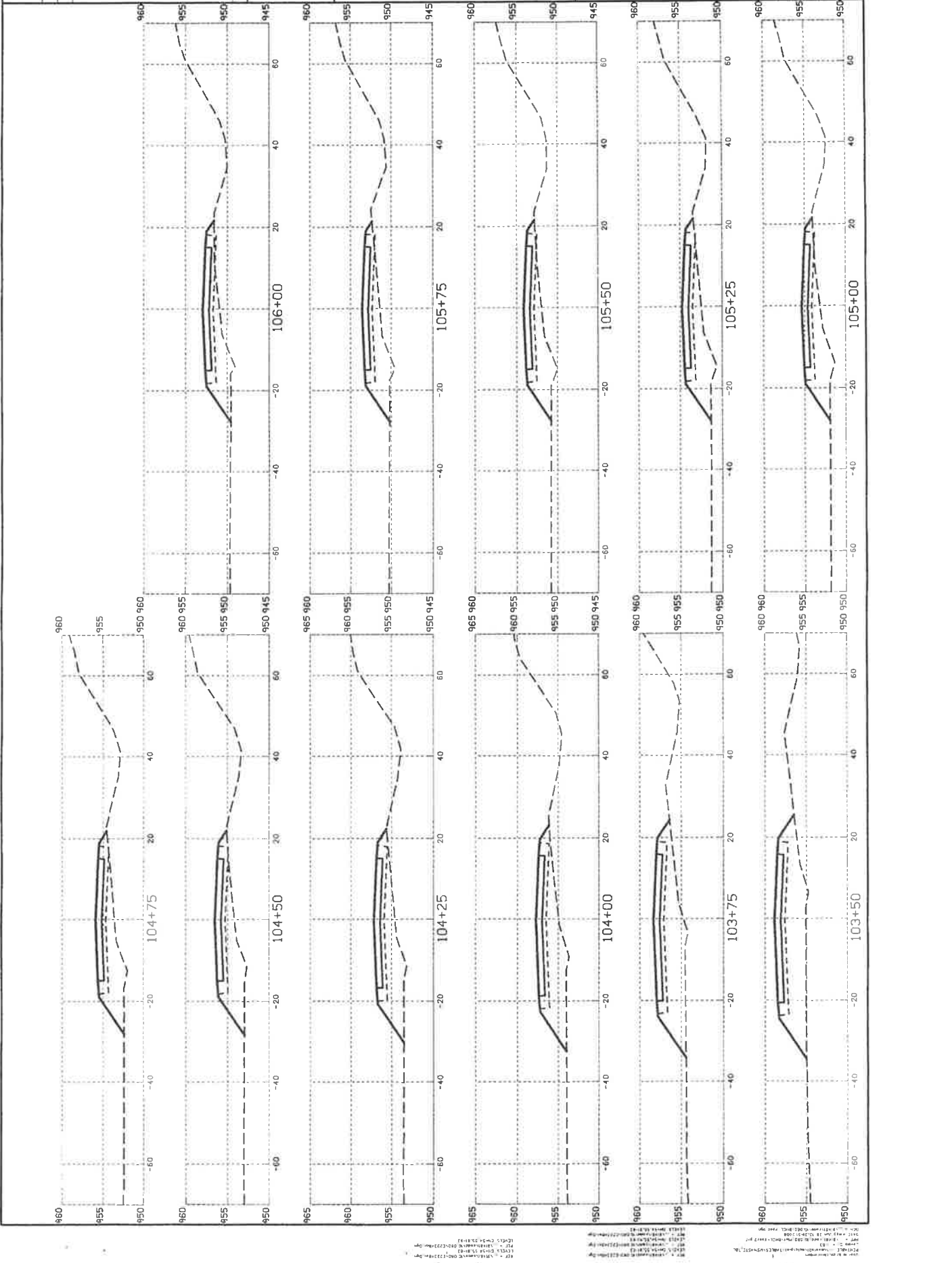
NO.	REVISIONS	DATE

DATE	JUNE 2002
PROJECT NO.	104+00 TO STA. 103+25
FILE NAME	104+00 TO STA. 103+25
SHEET NO.	

BLACK HAWK CO. SOLID WASTE COMMISSION  
 SCALE AND ACCESS ROAD IMPROVEMENTS  
 WATERLOO, IOWA

STA. 104+00 TO STA. 103+25  
 ROAD WAY CROSS SECTIONS

EarthTech  
 A tyco International Ltd. Company



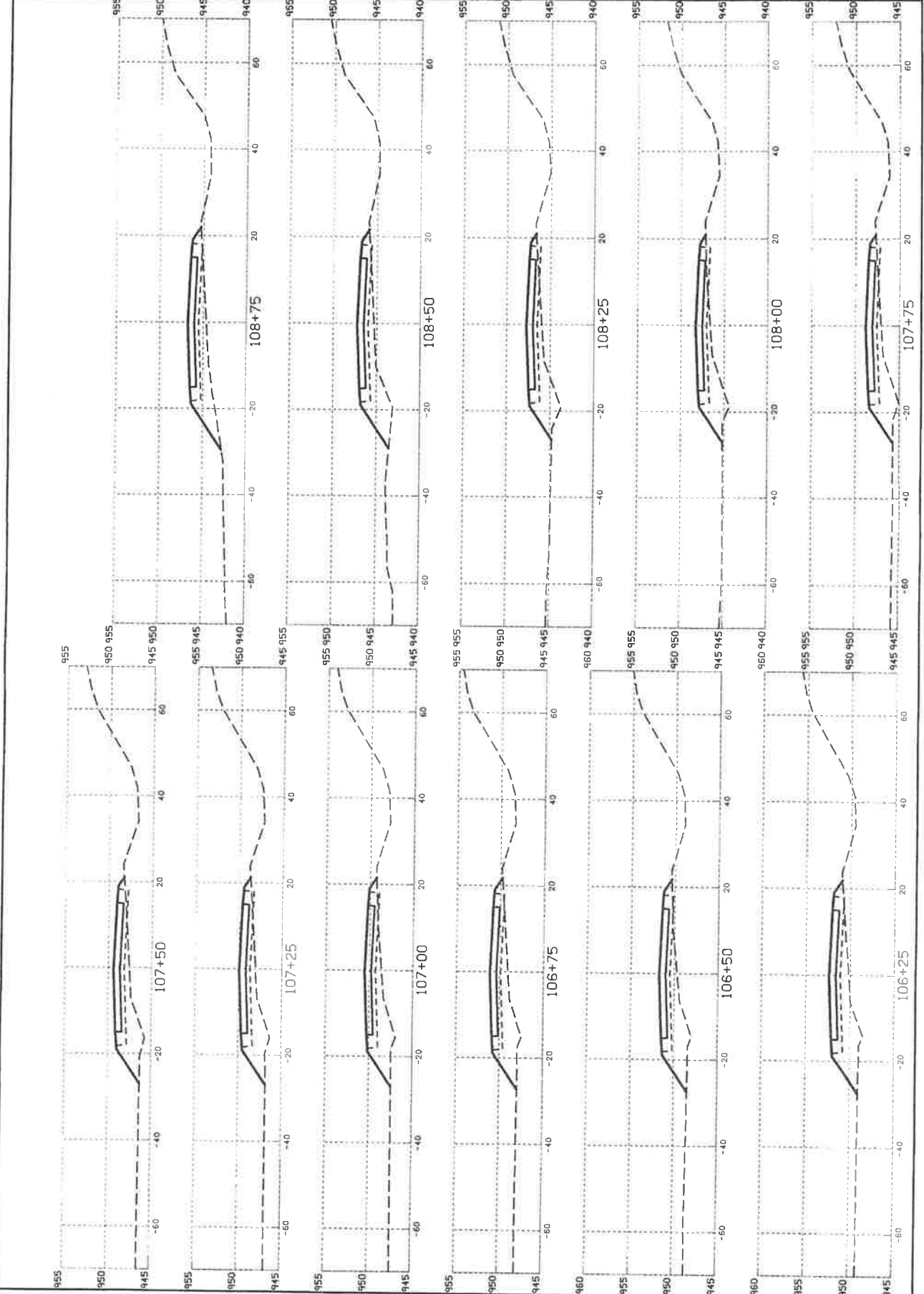
104+00 TO STA. 103+25  
 ROAD WAY CROSS SECTIONS  
 WATERLOO, IOWA  
 DATE: JUNE 2002  
 PROJECT NO.: 104+00 TO STA. 103+25  
 FILE NAME: 104+00 TO STA. 103+25  
 SHEET NO.:

DATE	BY	CHKD	DATE

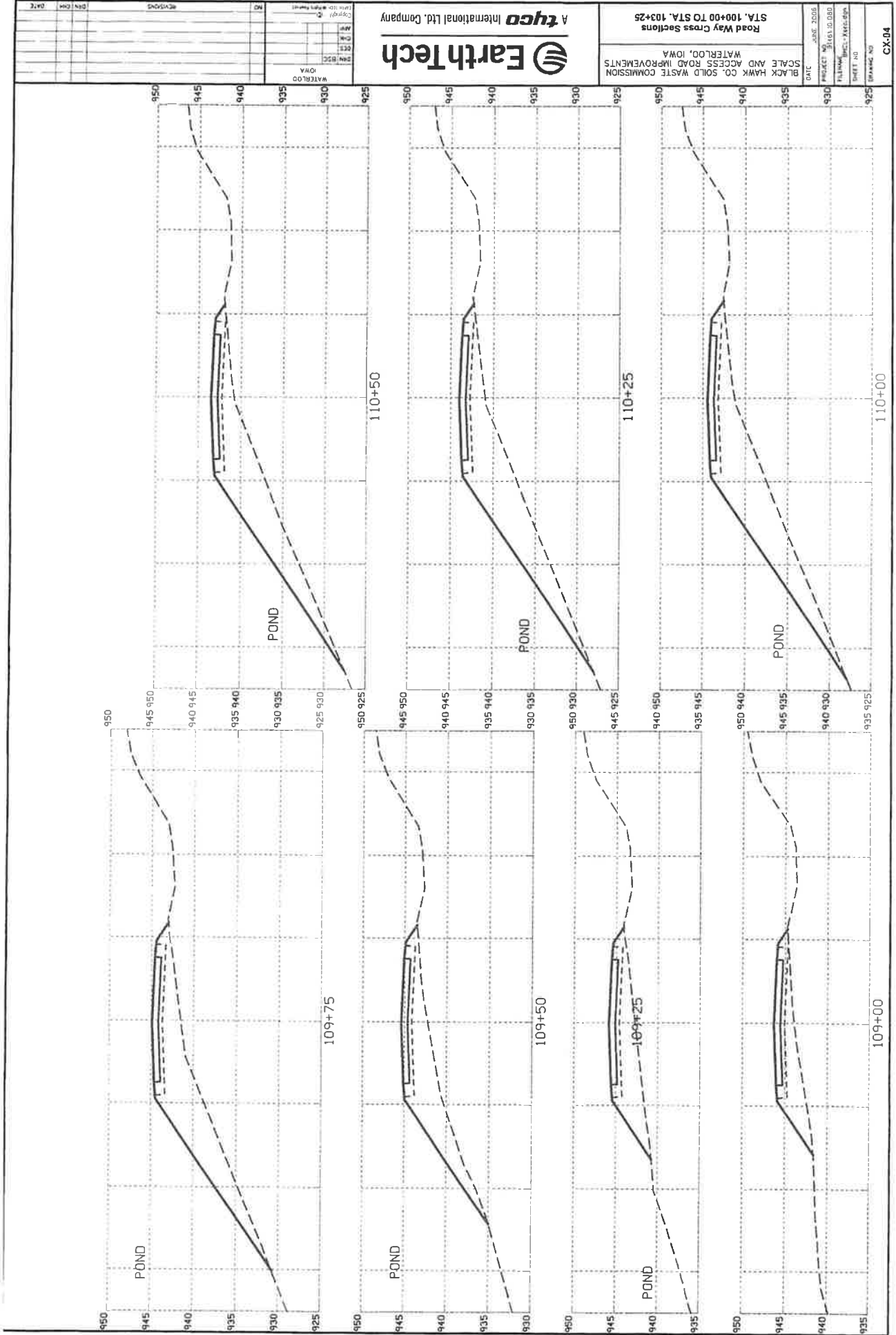
DATE	BY	CHKD	DATE

**EarthTech**  
 A tyco International Ltd. Company

ROADWAY CROSS SECTIONS  
 STA. 100+00 TO STA. 103+25  
 HAWK CO. SOLID WASTE COMMISSION  
 WATERLOO, IOWA  
 SCALE AND ACCESS ROAD IMPROVEMENTS  
 DATE: JUNE 2008  
 PROJECT: 08-000000  
 DRAWING NO: CX-03

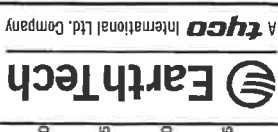


106+25  
 106+50  
 106+75  
 107+00  
 107+25  
 107+50  
 108+00  
 108+25  
 108+50  
 108+75  
 109+00  
 109+25



DATE	JUNE 2008
PROJECT NO.	3161.0.080
FILENAME	3161.0.080
SHEET NO.	110+00
DRAWING NO.	CX-04

Road Way Cross Sections  
STA. 100+00 TO STA. 103+25  
BLACK HAWK CO. SOLID WASTE COMMISSION  
SCALE AND ACCESS ROAD IMPROVEMENTS  
WATERLOO, IOWA



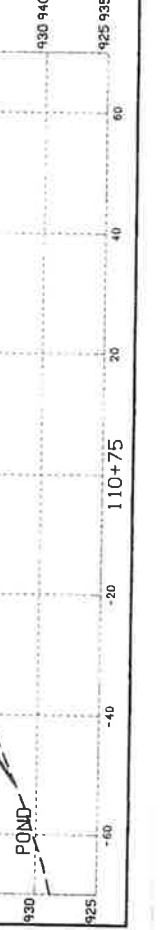
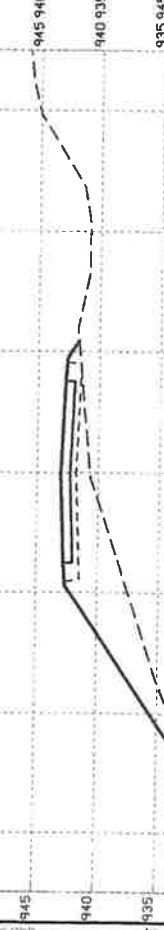
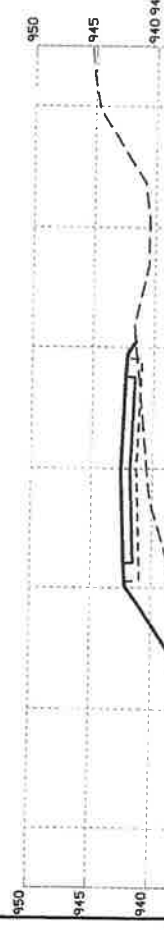
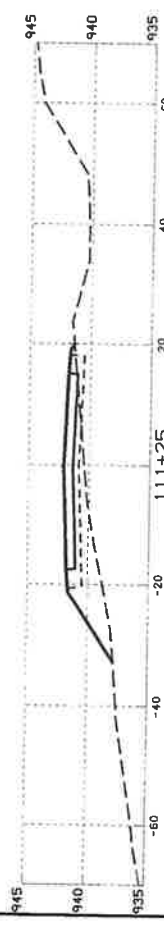
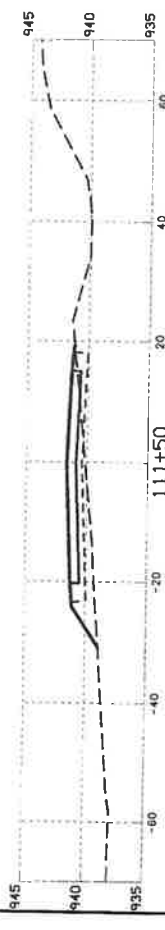
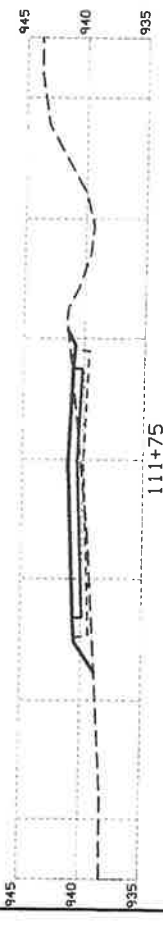
NO.	REVISED	DATE

NO.	DATE	BY	CHK.	DATE

DATE	JUNE 2008
PROJECT	9416110.080
TELEPHONE	(515) 281-5111
FAX	(515) 281-5111
SHEET NO.	112
DRAWING NO.	CX-05

**EarthTech**  
A tyco International Ltd. Company

BLACK HAWK CO. SOLID WASTE COMMISSION  
SCALE AND ACCESS ROAD IMPROVEMENTS  
WATERLOO, IOWA  
Road Way Cross Sections  
STA. 100+00 TO STA. 103+25



*WORLDG CRACK SURFACES*

PL - 112+00 TO 112+25  
DATE: 06/10/08  
BY: J. H. [unreadable]  
CHK: [unreadable]  
DATE: [unreadable]

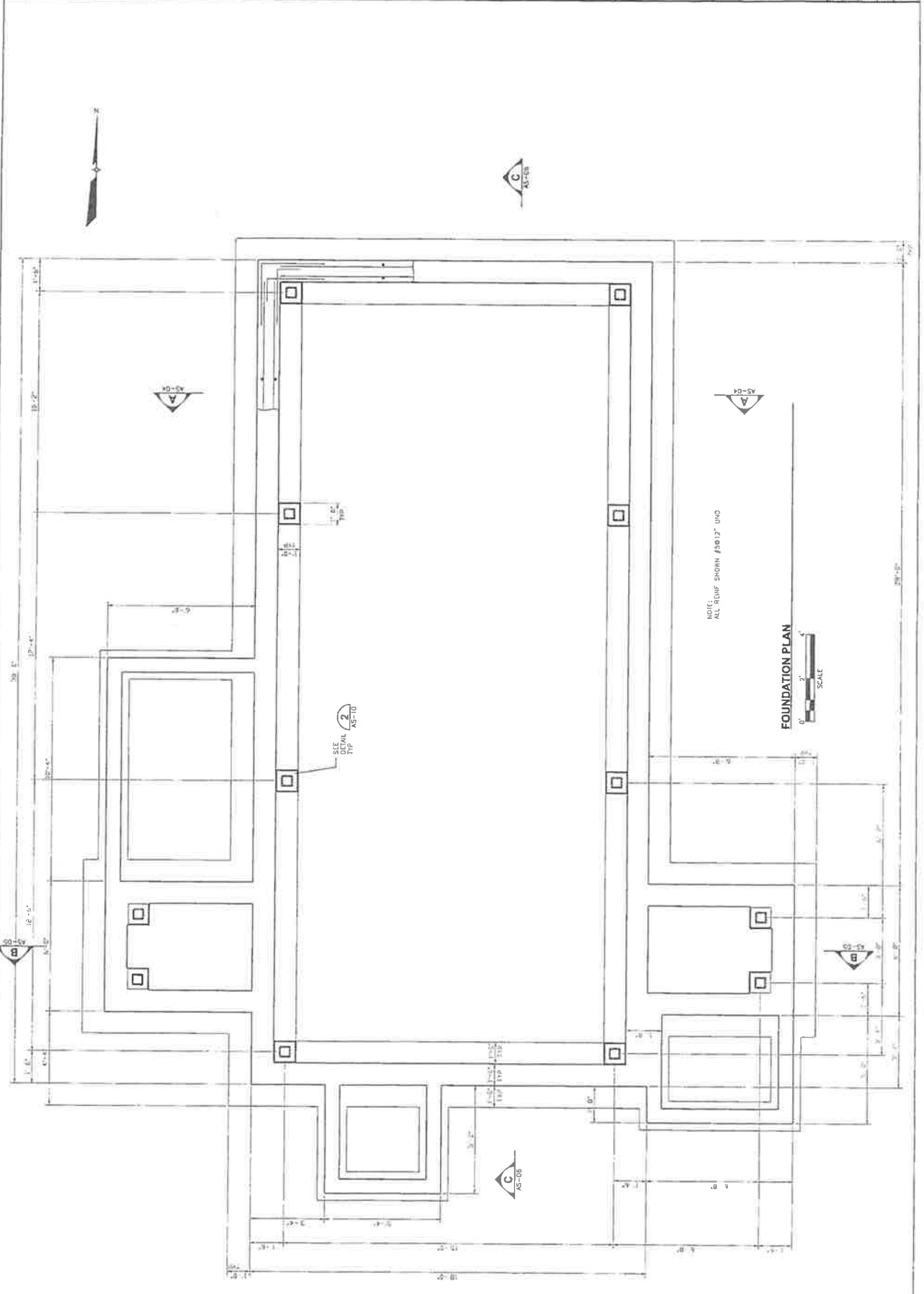
NO.	REVISIONS	DATE

DATE	BY	CHKD
JUN 2008		
JUN 2008		
JUN 2008		
JUN 2008		
JUN 2008		

SHREBOGAN, WISCONSIN  
 EarthTech  
 A Terracon/Innovative LLC Company

FOUNDATION PLAN  
 BLACK HAWK COUNTY  
 SCALE HOUSE  
 WATERLOO, IOWA

DATE: JUN 2008  
 PROJECT NO: 31461  
 FILE NO: S-FNDG  
 SHEET NO:  
 DRAWING NO: AS-01

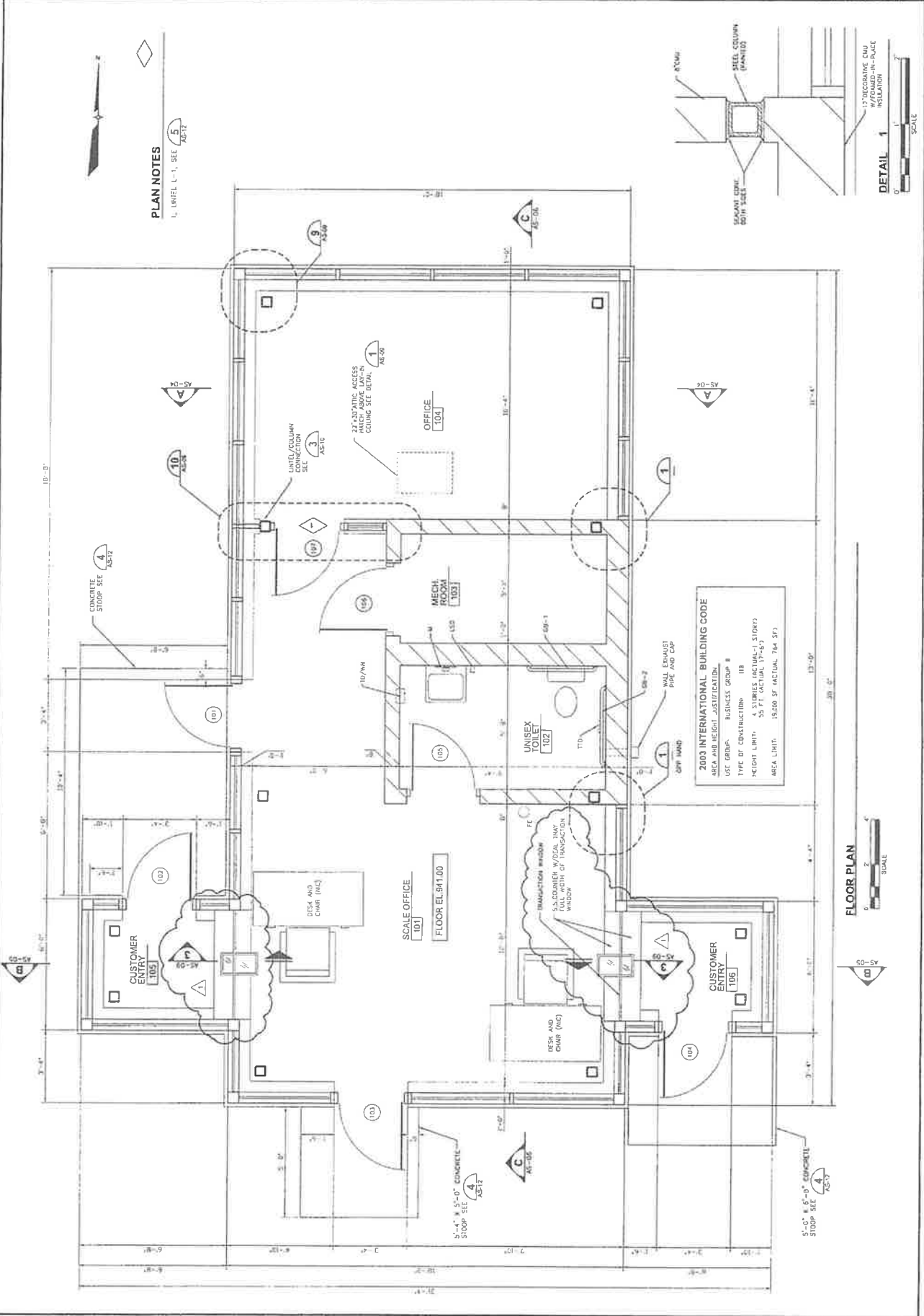


NO.	DESCRIPTION	DATE	BY	CHK
1	ADDITIONAL NO. 1	JUNE 2006		
2		JUNE 2006		
3		JUNE 2006		
4		JUNE 2006		
5		JUNE 2006		

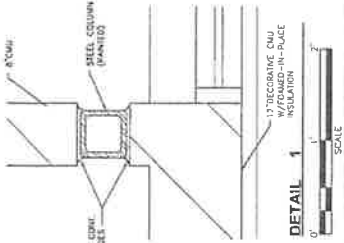
DATE	DESCRIPTION
JUNE 2006	APP
JUNE 2006	CHK
JUNE 2006	DES
JUNE 2006	INT
JUNE 2006	REV

SHEBOYGAN, WISCONSIN  
 EarthTech  
 A Tyco International Ltd. Company

BLACK HAWK COUNTY  
 SCALE HOUSE  
 WATERLOO, IOWA  
 FLOOR PLAN  
 DATE: JUNE 2006  
 PROJECT NO: 11441  
 FILE #PARTING  
 FILE NO  
 SHEET NO  
 DRAWING NO: AS-02



**PLAN NOTES**  
 1. UNIREX L-1, SEE AS-05



**2003 INTERNATIONAL BUILDING CODE**  
 AREA AND HEIGHT JUSTIFICATION:  
 USE GROUP: BUSINESS GROUP B  
 TYPE OF CONSTRUCTION: III  
 HEIGHT LIMIT: 55 FT (ACTUAL 17'-6")  
 AREA LIMIT: 19,000 SF (ACTUAL 764 SF)





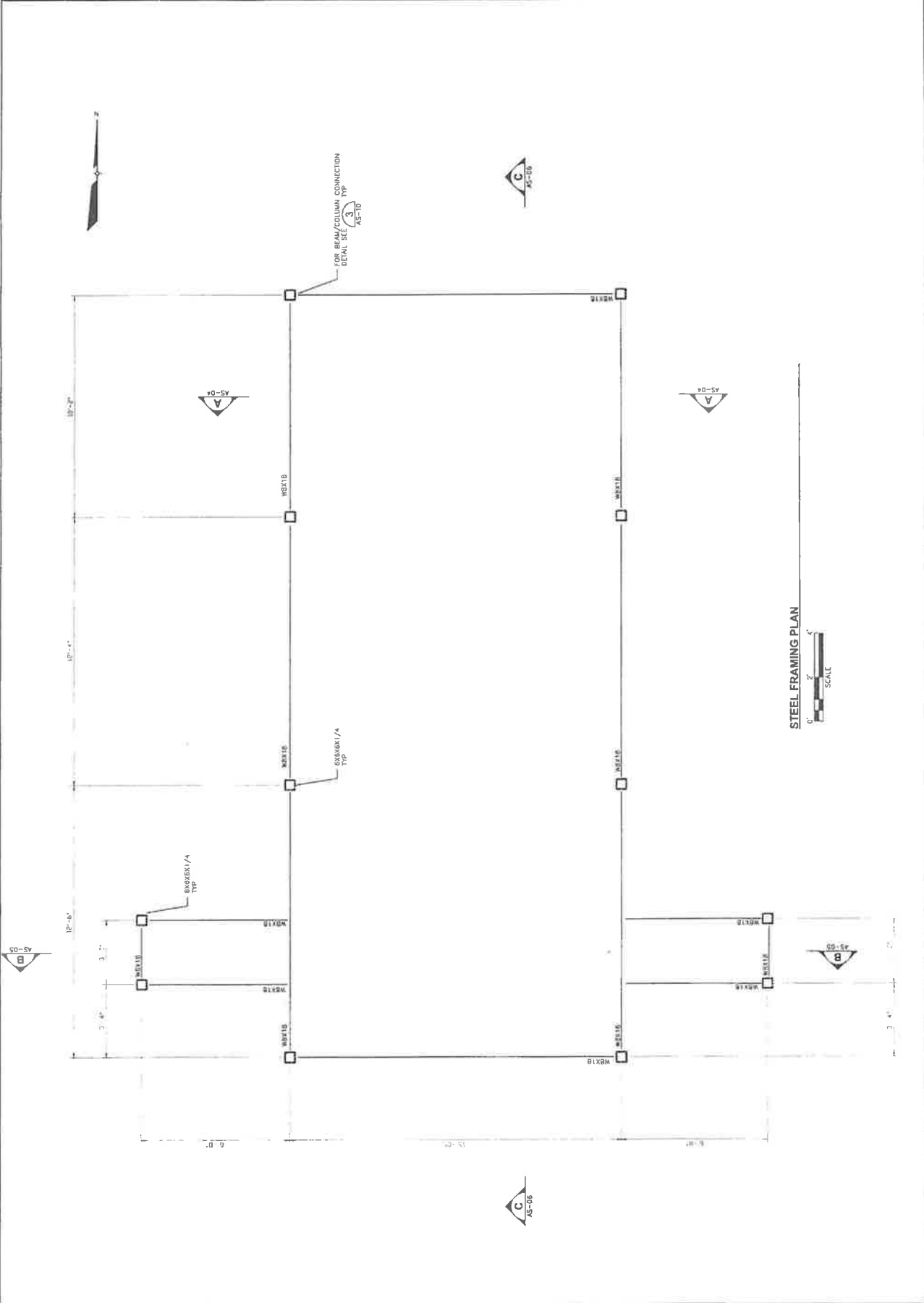
NO.	REVISIONS	DATE

NO.	DATE	DESCRIPTION
01	JUNE 2008	ISSUED FOR PERMIT
02	JUNE 2008	REVISED PER COMMENTS
03	JUNE 2008	REVISED PER COMMENTS
04	JUNE 2008	REVISED PER COMMENTS
05	JUNE 2008	REVISED PER COMMENTS
06	JUNE 2008	REVISED PER COMMENTS
07	JUNE 2008	REVISED PER COMMENTS
08	JUNE 2008	REVISED PER COMMENTS
09	JUNE 2008	REVISED PER COMMENTS
10	JUNE 2008	REVISED PER COMMENTS

**EarthTech**  
A Tyco International Ltd. Company

**STEEL FRAMING PLAN**  
BLACK HAWK COUNTY  
SCALE HOUSE  
WATERLOO, IOWA

DATE	JUNE 2008
PROJECT NO.	91481
FILE NO.	9-111-04-DWG
JOB NO.	
SHEET NO.	
DRAWING NO.	AS-03





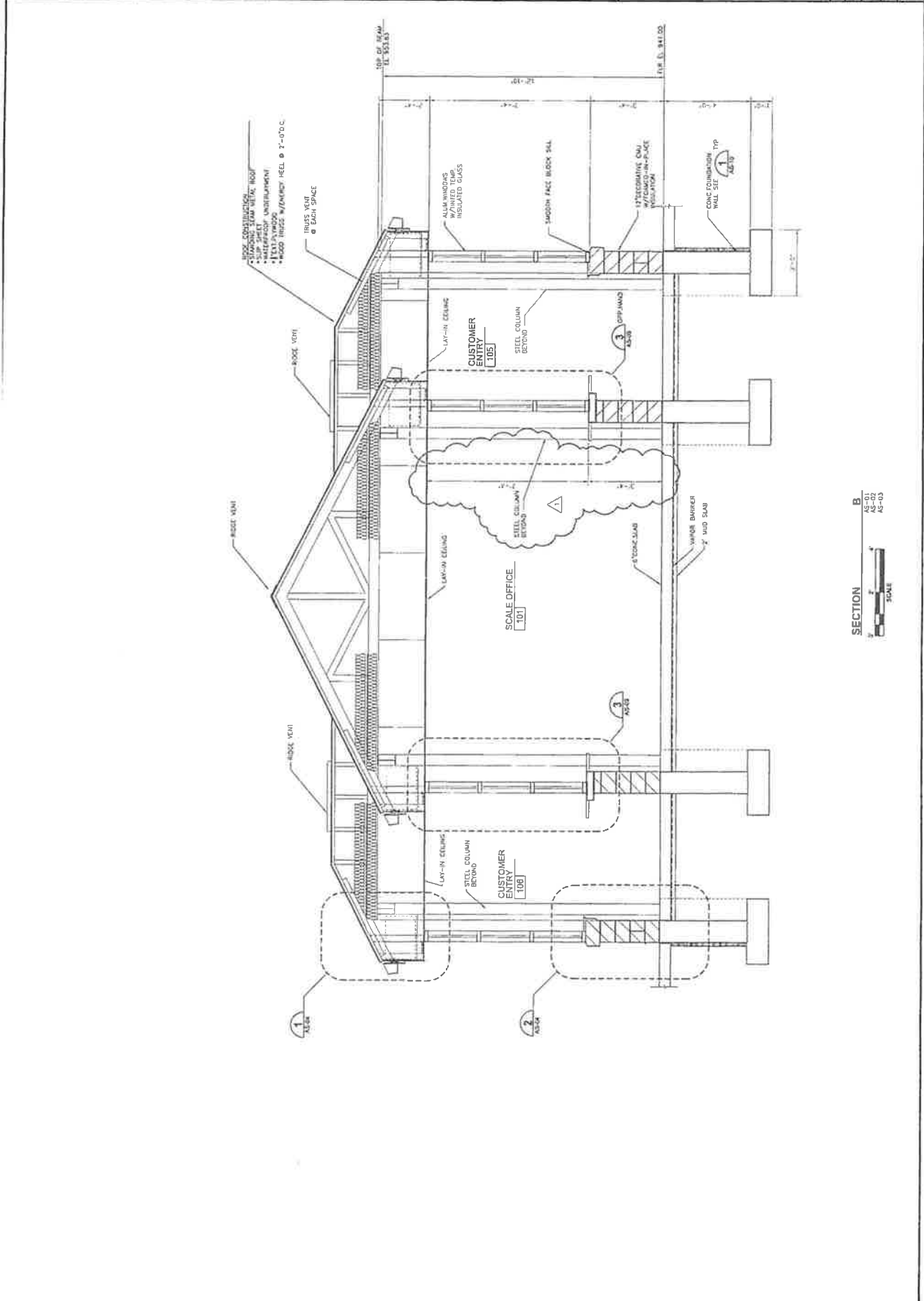
NO.	DESCRIPTION	DATE	BY	CHKD	DATE
1	ADDITIONAL NO. 1				
		JUNE 2006			
		JUNE 2006			
		JUNE 2006			
		JUNE 2006			

ADDITIONAL NO. 1  
 SHEYRON  
 WISCONSIN

**EarthTech**  
 A Terra Group Company

**SECTIONS**  
 BLACK HAWK COUNTY  
 SCALE HOUSE  
 WATERLOO, IOWA

DATE	JUNE 2006
PROJECT NO.	01461
FILE NO.	01461
SHEET NO.	
DRAWING NO.	AS-05

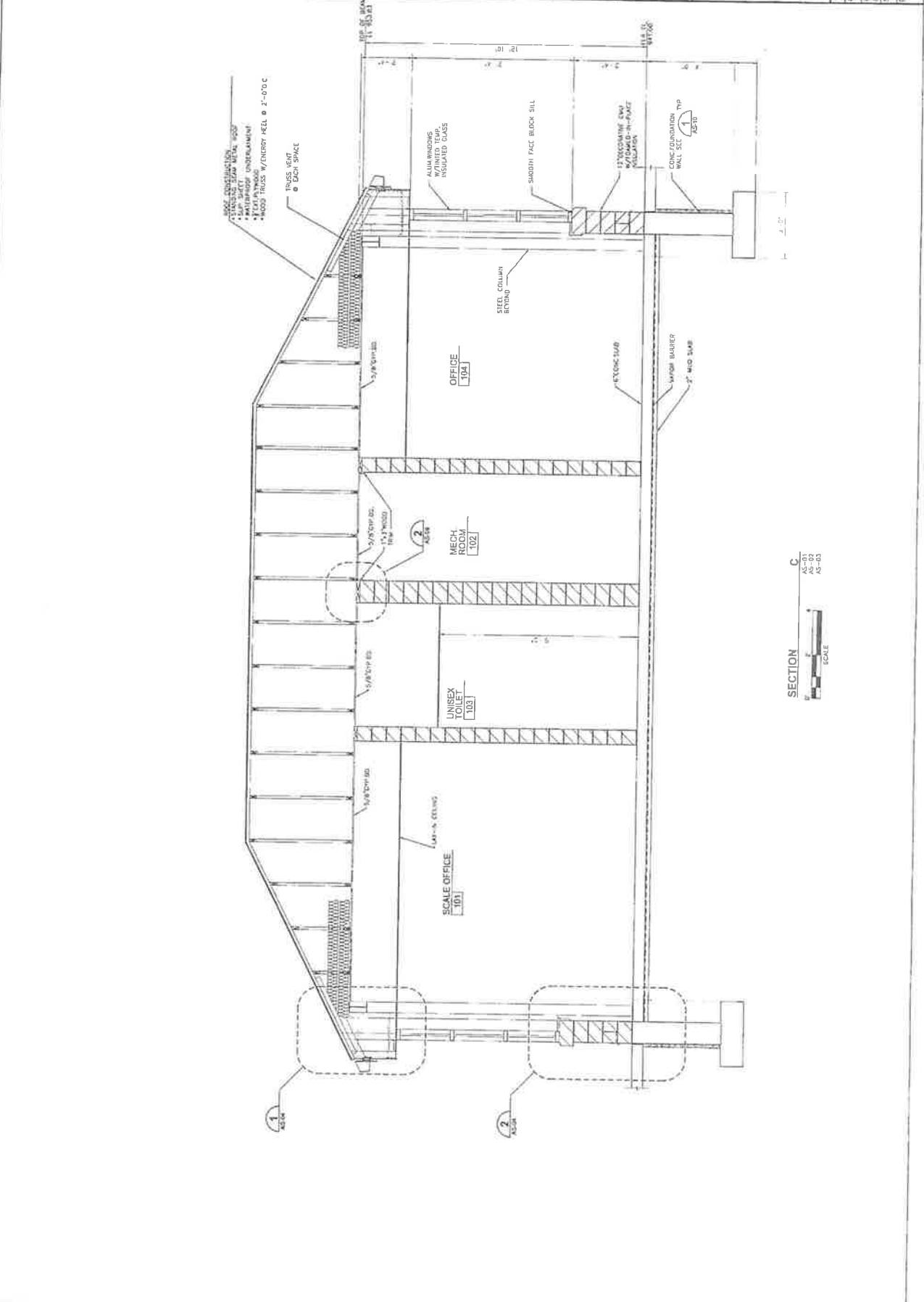


**SECTION B**

AS-01  
 AS-02  
 AS-03  
 AS-05

SCALE

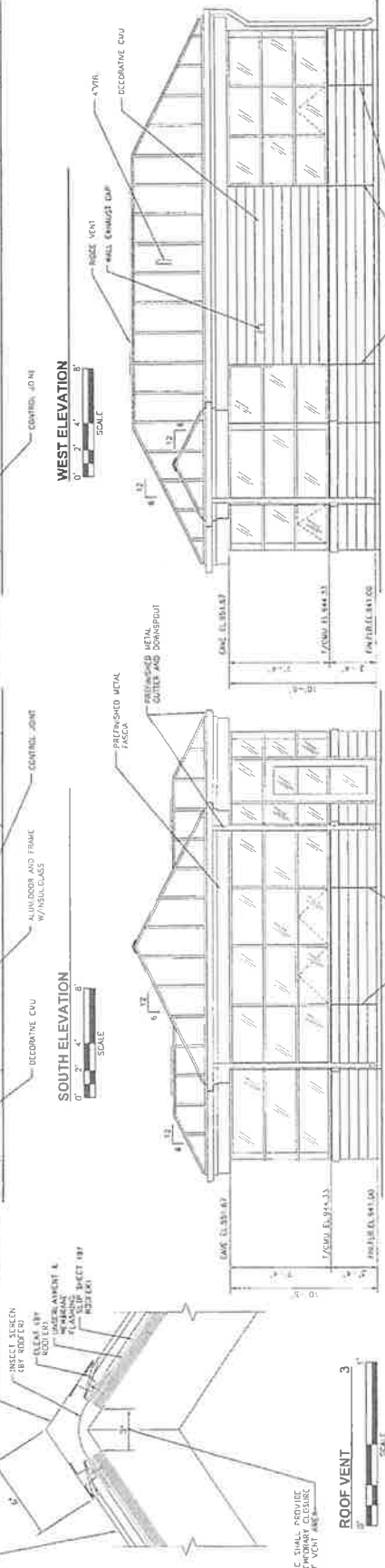
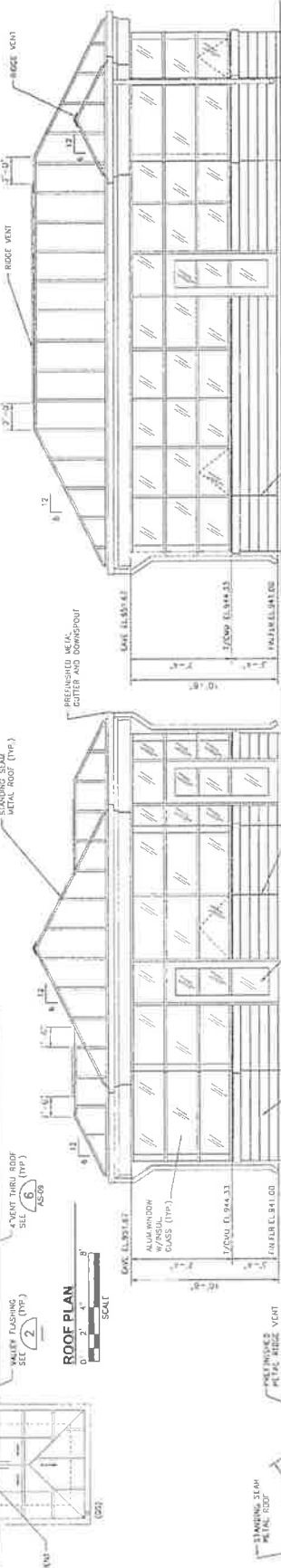
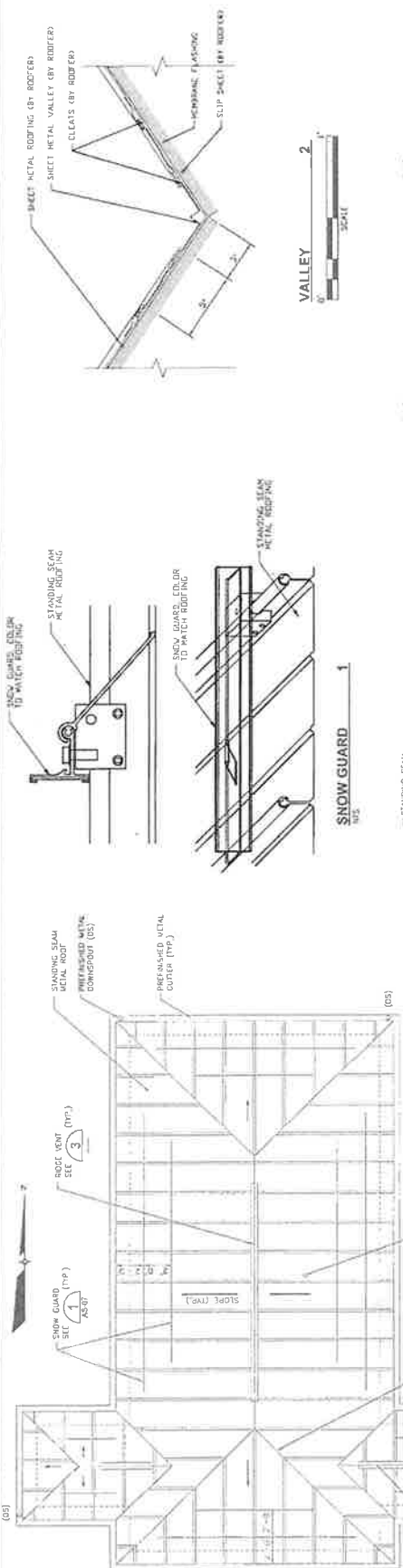
SECTIONS		DATE: JUNE 2006	PROJECT NO: 191451
BLACK HAWK COUNTY SCALE HOUSE		FILE NO: 191451	SHEET NO:
A Technical LLC Company		DATE: JUNE 2006	DATE: JUNE 2006
EarthTech		DATE: JUNE 2006	DATE: JUNE 2006
SHEETS		DATE: JUNE 2006	DATE: JUNE 2006
NO:		DATE: JUNE 2006	DATE: JUNE 2006
REV'S		DATE: JUNE 2006	DATE: JUNE 2006
DATE:		DATE: JUNE 2006	DATE: JUNE 2006



SECTION C  
AS-01  
AS-02  
AS-03  
SCALE

AS-06

NO.	REVISIONS	DATE
1	ISSUED FOR PERMITS	JUNE 2006
2	REVISED PER COMMENTS	JUNE 2006
3	REVISED PER COMMENTS	JUNE 2006
4	REVISED PER COMMENTS	JUNE 2006
5	REVISED PER COMMENTS	JUNE 2006
6	REVISED PER COMMENTS	JUNE 2006
7	REVISED PER COMMENTS	JUNE 2006
8	REVISED PER COMMENTS	JUNE 2006
9	REVISED PER COMMENTS	JUNE 2006
10	REVISED PER COMMENTS	JUNE 2006



SEE PLAN PROVIDE TEMPORARY CLOSURE OF VENT AREA

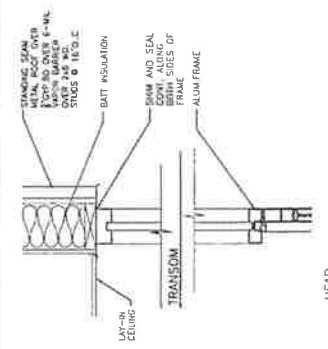


NO.	REVISIONS	DATE
1	APPROVAL NO. 1	JUNE 2006
2		JUNE 2006
3		JUNE 2006
4		JUNE 2006
5		JUNE 2006
6		JUNE 2006
7		JUNE 2006
8		JUNE 2006
9		JUNE 2006
10		JUNE 2006

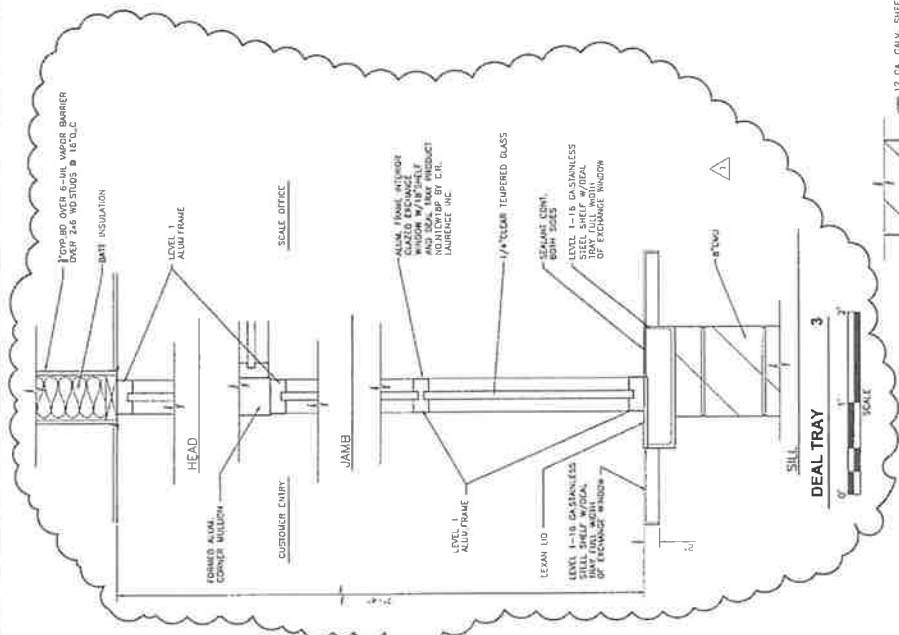


ARCHITECTURAL  
DETAILS  
BLACK HAWK COUNTY  
SCALE HOUSE  
WATERLOO, IOWA

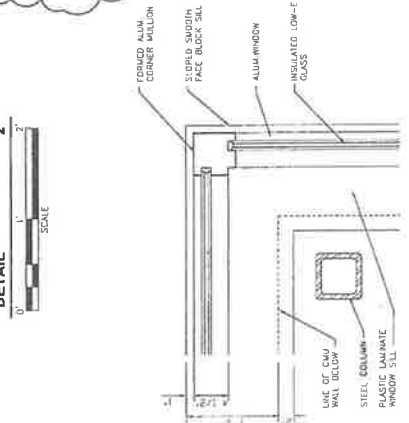
DATE	JUNE 2006
PROJECT NO.	01443
FILE NO.	A0322006
SHEET NO.	
DRAWING NO.	AS-09



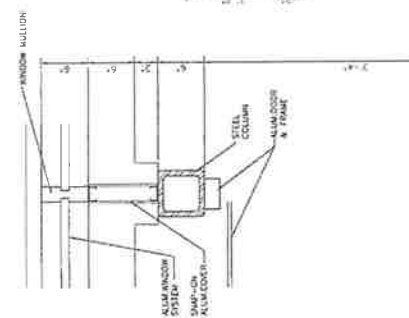
ATTIC ACCESS HATCH DETAIL 1  
SCALE 1\"/>



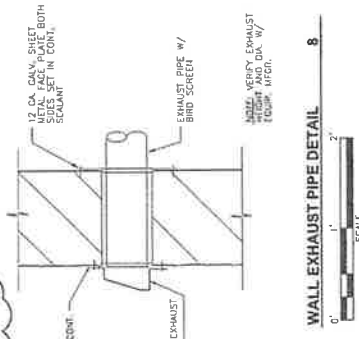
DETAIL 2  
SCALE 1\"/>



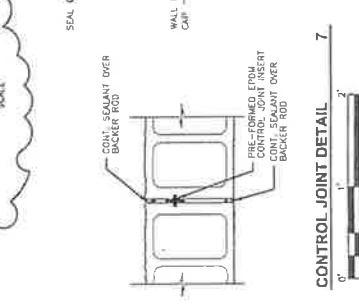
DETAIL 3  
SCALE 1\"/>



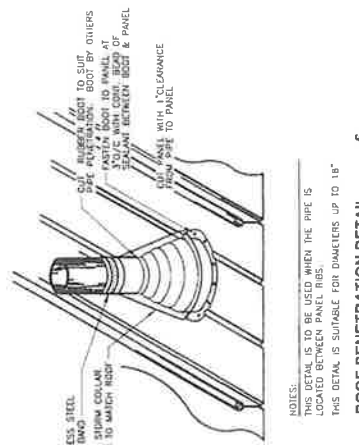
EXTERIOR ALUM. DOOR 4  
SCALE 1\"/>



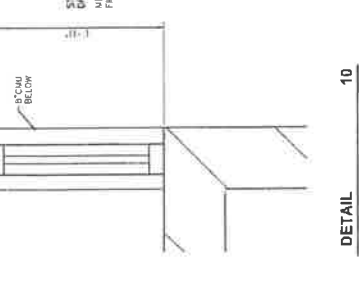
WALL EXHAUST PIPE DETAIL 8  
SCALE 1\"/>



CONTROL JOINT DETAIL 7  
SCALE 1\"/>



ROOF PENETRATION DETAIL 6  
SCALE 1\"/>



DETAIL 10  
SCALE 1\"/>

NOTES:  
THIS DETAIL IS TO BE USED WHEN THE PIPE IS LOCATED BETWEEN PANEL JOINTS.  
THIS DETAIL IS SUITABLE FOR DIAMETERS UP TO 18\"/>

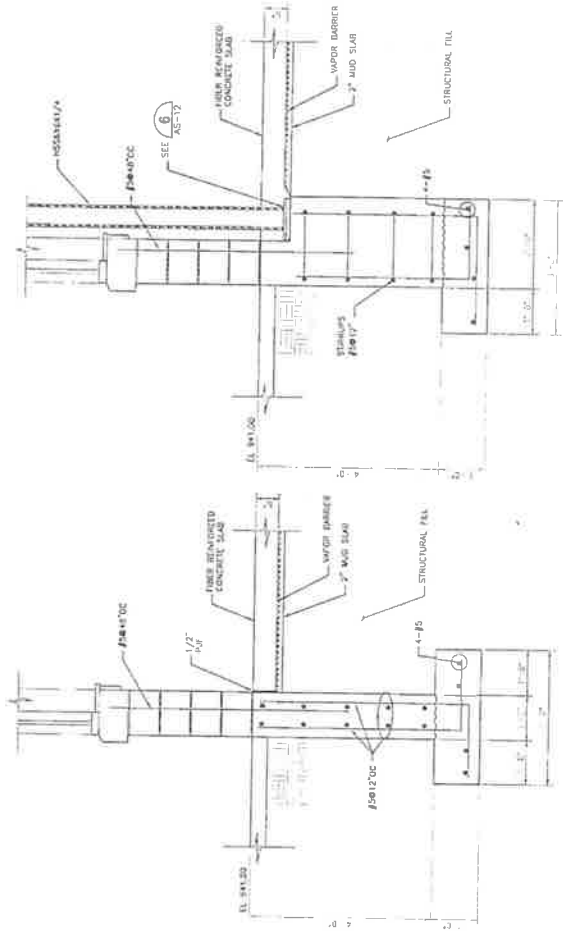
DATE: JUNE 2006  
 PROJECT NO: 16163  
 FILE: 16163-16-Draw.dwg  
 SHEET NO: 16163-16-01  
 DRAWING NO: AS-10

DETAILS  
 BLACK HAWK COUNTY  
 SCALE HOUSE  
 WATERLOO, IOWA

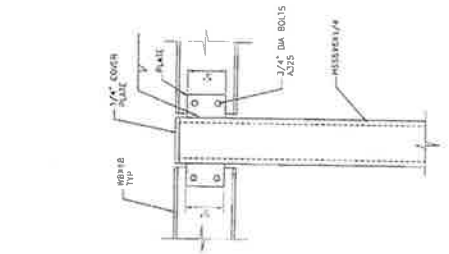


A Terracon International Ltd. Company

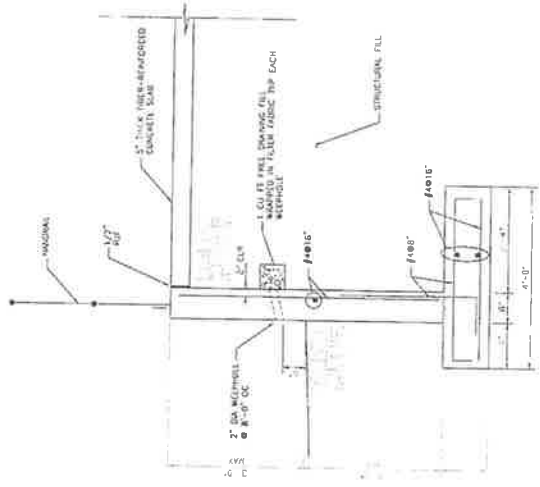
NO.	REV.	DATE	BY/CHK
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			



DETAIL 1  
 0' 1" 2' 3' 4' 5' 6' 7' 8' 9' 10'  
 SCALE



BEAM CONNECTION DETAIL 3  
 0' 1" 2' 3' 4' 5' 6' 7' 8' 9' 10'  
 SCALE



DETAIL 4  
 0' 1" 2' 3' 4' 5' 6' 7' 8' 9' 10'  
 SCALE

NOTE FOR ELEVATIONS REFER TO CIVIL DRAWINGS



**GENERAL STRUCTURAL NOTES**

- GENERAL
1. THE GENERAL STRUCTURAL NOTES AND STANDARD STRUCTURAL DETAILS APPLY TO THE ENTIRE PROJECT UNLESS SPECIFICALLY STATED OTHERWISE.

**DESIGN CRITERIA**

1. DESIGN AND CONSTRUCT IN CONFORMANCE WITH THE INTERNATIONAL BUILDING CODE, 2003 EDITION
2. SUPERIMPOSED DESIGN LOADS:
  - A. ROOF LIVE LOAD: 20 PSF
  - B. ROOFING DEAD LOAD: 15 PSF
  - C. MECHANICAL EQUIPMENT: VERIFY WITH EQUIPMENT SUPPLIER. (SEE EQUIPMENT SCHEDULES)
  - D. STAIRS & WALKWAYS: 100 PSF FOR 1000 LBS CONCENTRATED
  - E. ROOF SNOW LOAD:
    - 1. GROUND SNOW LOAD,  $P_g$
    - 2. FLAT ROOF SNOW LOAD,  $P_f$
    - 3. SNOW EXPOSURE FACTOR,  $C_e$
    - 4. SNOW LOAD DRAINANCE FACTOR,  $C_d$
    - 5. THERMAL FACTOR,  $C_t$
  - F. WIND LOAD:
    - 1. BASIC WIND SPEED,  $V$
    - 2. EXPOSURE CATEGORY,  $B$
    - 3. BUILDING CATEGORY,  $B$
    - 4. WIND EXPOSURE
3. SEISMIC DESIGN DATA:
  - A. SITE CLASS: **1.0**
  - B. SPECTRAL RESPONSE COEFFICIENTS:
    - 1.  $S_{DS}$ : **0.62**
    - 2.  $S_{D1}$ : **0.42**
  - C. SITE CLASS: **D**
  - D. SEISMIC DESIGN CATEGORY: **A**

7. BEFORE CONCRETE IS PLACED, CONSTRUCTION JOINTS SHALL BE CLEANED AND LANTAGE REMOVED AND SURFACE WETTED, STANDING WATER SHALL BE REMOVED.
8. CONSTRUCTION JOINTS SHALL HAVE 45°S OR ROUGHENED SURFACES, WHERE ROUGHENED SURFACE IS USED, THE SURFACE SHALL HAVE AN AMPLITUDE OF 1/4" MIN.
9. PITCH ALL FLOORS TO FLOOR DRAINS AND GUTTERS A MINIMUM OF 1/8" FT, OR AS SHOWN ON THE DRAWINGS. MINIMUM THICKNESS OF SLABS AND DEPTH OF BEAMS SHALL BE AS DIMENSIONED ON THE DRAWINGS. PITCH THE BOTTOM OF THE THICKENED TOP OF DEPTH NOTED OR OTHERWISE. BOTTOM OF THE SLAB MAY BE POURED LEVEL, PROVIDED THAT THE MINIMUM THICKNESS OR DEPTH IS MAINTAINED.
10. CHAMFER EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.
11. EQUIPMENT PAD AND CURB LOCATIONS, DIMENSIONS AND HEIGHTS TO BE COORDINATED BY CONTRACTOR. VERIFY WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS.

**MASONRY**

1. MASONRY OPENINGS LESS THAN 4'-0" IN WIDTH THAT DO NOT HAVE A STEEL COVER SHALL HAVE A BOND BEAM WITH 2-#5 BARS OR DOUBLE STEEL ANGLE LINTEL WITH A TOTAL WIDTH OF HORIZONTAL LEGS APPROXIMATELY 1" LESS THAN WALL THICKNESS.
2. PROVIDE A MINIMUM OF 8" BEARING AT EACH END FOR STEEL BEAM LINTELS AND BOND BEAM LINTELS AND 6" BEARING AT EACH END FOR ANGLE LINTELS UNLESS NOTED OTHERWISE.
3. PROVIDE HORIZONTAL MASONRY REINFORCEMENT IN WALLS AT 16" O.C. MAXIMUM UNLESS OTHERWISE NOTED.
4. FILL JAMB CORES OF OPENINGS OVER 3'-0" WIDE WITH MASONRY GROUT FROM BOTTOM OF LINTEL TO BOTTOM OF WALL. REINFORCE CORES WHERE NOTED.

**METALS**

1. STEEL:
  - A. SHAPES AND PLATES: ASTM A36 OR ASTM 992
  - B. STAINLESS STEEL:
    - 1. EXTERIOR USES: AISI, TYPE 316
    - 2. INDUSTRIAL USES: AISI, TYPE 304
    - 3. EXTERIOR ARCHITECTURAL USES: AISI, TYPE 302, 303, OR 304.
  - C. CAST-IN-PLACE ANCHOR BOLTS: ALUMINUM:
    - A. SHAPES AND PLATES: ALLOY 6061-T6 OR 6063-T6
    - B. ANCHOR BOLTS: 1/2" MINIMUM DIA. 1, NON SUBMERGED; ASTM A307 OR ASTM A1554, GRADE 3B, GALVANIZED.
  - D. CONNECTION BOLTS FOR ALUMINUM: STAINLESS STEEL:
    - ASTM A48, CLASS 358
    - ASTM B88, GRADE 23-13-1.5 OR
    - ASTM B26, ALLOY 713.0, TENSALLOY
    - ASTM A536, GRADE 65-45-12
  - E. CAST IRON:
    - A. CAST ALUMINUM: D. CAST DUCTILE IRON
  - F. WELD, STRUCTURAL STEEL WITH E70 ELECTRODES IN ACCORDANCE WITH A.I.W.S. REQUIREMENTS.
  - G. PROTECT ALUMINUM SURFACES IN CONTACT WITH OTHER MATERIALS IN ACCORDANCE WITH THE SPECIFICATIONS.
- MISCELLANEOUS
  1. FOR ADDITIONAL OPENINGS, ANCHORS AND EMBEDDED ITEMS SEE ARCHITECTURAL, PROCESS, PLUMBING, HVAC & ELECTRICAL DRAWINGS.
  2. VERIFY PERTINENT EXISTING CONDITIONS AND DIMENSIONS BEFORE STARTING CONSTRUCTION AND/OR FABRICATION.

**CONCRETE**

1. REINFORCING STEEL:
  - A. DEFORMED BARS: ASTM A615-GRAD 60
  - B. WELDED WIRE FABRIC (WWF): ASTM A185
2. UNLESS OTHERWISE SHOWN PROVIDE COVER FOR REINFORCEMENT AS FOLLOWS:
  - A. OVER EXPOSED TO WEATHER OR WATER:
    - 1. SLABS: 2 INCHES
    - 2. MUD SLAB: 2 INCHES
    - 3. FOOTINGS AND BASE SLAB: 2 INCHES
    - 4. TOP OF FOOTINGS AND WEATHER OR WATER: 2 INCHES
  - B. NOT EXPOSED TO WEATHER OR WATER:
    - 1. TOP OF FOOTINGS AND BASE SLABS: 2 INCHES
    - 2. TOP OF FOOTINGS AND WEATHER OR WATER: 2 INCHES
    - 3. TOP OF FOOTINGS AND WEATHER OR WATER: 2 INCHES
    - 4. TOP OF FOOTINGS AND WEATHER OR WATER: 2 INCHES
3. PLACE DOVELS BEFORE PLACING CONCRETE.
  - A. DO NOT WELD OR FIELD BEND REINFORCING BARS, EXCEPT AS APPROVED BY ENGINEER.
5. CONCRETE:
  - A. ALL LOCATIONS EXCEPT WHERE CLASS B IS SPECIFIED, CLASS A
  - B.  $f'_c = 4000$  PSI
6. UNLESS OTHERWISE NOTED, CONSTRUCTION JOINTS SHOWN ARE OPTIONAL. CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY ENGINEER.

**MINIMUM REINFORCEMENT BAR SPLICE AND ANCHORAGE LENGTH (INCHES)**

BAR SIZE (IN-POUND)	LAPPED SPLICE LENGTH		DEVELOPMENT LENGTH		COMPRESSION LAP LENGTH
	TOP BARS	OTHERS	TOP BARS	OTHERS	
3	10	21	16	12	6
4	13	24	16	12	7
5	16	29	23	17	9
6	19	40	31	24	10
7	22	52	40	31	12
8	25	61	47	36	14
9	29	74	57	44	15
10	32	86	66	53	18
11	36	104	80	62	19
12	40	121	92	71	21

- NOTES:
1. TOP BARS ARE HORIZONTAL BARS SO PLACED THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.
  2. DEVELOPMENT LENGTH IS LESS THAN 6 BAR DIAMETERS O.C. INCREASE LENGTH BY 25%.
  3. WHEN LAPPING TWO DIFFERENT SIZE BARS USE THE LAP LENGTH OF THE SMALLER BAR UNLESS NOTED OTHERWISE.
  4. DEVELOPMENT LENGTH IS BASED ON THE REQUIREMENT FOR TENSILE STRESS. WHERE END HOOK IS NOT SHOWN, UNLESS OTHERWISE NOTED.
  5. COMPRESSION LAP LENGTH FOR VERTICAL COLUMN BARS ONLY.
  6. HOOKS SHALL BE AS STANDARD UNLESS OTHERWISE NOTED.

**REINFORCEMENT SCHEDULE DETAIL**

**2**

EarthTech  
A Terra Technical Ltd Company

BLACK HAWK COUNTY  
WATERLOO, IOWA

STANDARD DETAILS

DATE: JUNE 2006  
PROJECT NO: 04-13-000  
FILE NO: 04-13-000  
SHEET NO: 04-13-000  
DRAWING NO: AS-11

DATE	JUN 2006
PROJECT NO	31461
FILE	5-0122.dwg
PLOT NO	5-0122.dwg
SHEET NO	
DRAWING NOS	

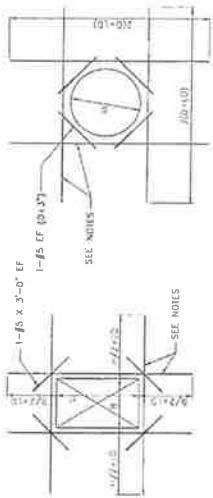
BLACK HAWK COUNTY  
SCALE HOUSE  
WATERLOO, IOWA  
**STRUCTURAL**  
STANDARD DETAILS



A Tru Horizontal Ltd. Company

NO	REVISIONS	DATE	CHK	DATE
1	ISSUED FOR PERMITS	JUNE 2006		
2	REVISED FOR PERMITS	JUNE 2006		
3	REVISED FOR PERMITS	JUNE 2006		
4	REVISED FOR PERMITS	JUNE 2006		

SHROYAN  
WISCONSIN



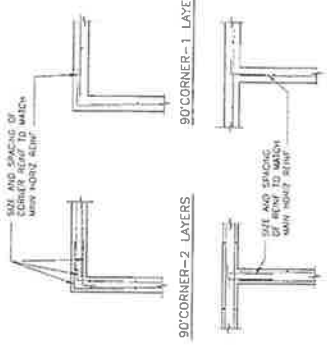
**RECTANGULAR OPENING**

NOTES

1. THESE DETAILS APPLY TO ALL OPENINGS IN CONCRETE WALLS AND SLABS WHICH EXCEED THE THICKNESS OF THE WALL OR SLAB. THE THICKNESS OF THE SECTION SHALL BE NOTED IN THE DRAWINGS. UNLESS OTHERWISE NOTED IN THE DRAWINGS, THE AREA OF ADDITIONAL REINFORCING REQUIRED IN EACH FACE OF THE OPENING SHALL BE 10% OF THE AREA OF THE UNPERFORCED SLAB IN EACH DIRECTION, RESPECTIVELY WITH A MINIMUM OF 1-#5 BAR EACH FACE.
2. REINFORCING BARS SHALL BE PLACED ON THE SAME LAYERS AS THE WALL OR SLAB REINFORCING.
3. DEVELOPMENT LENGTH: SEE 2-10.1

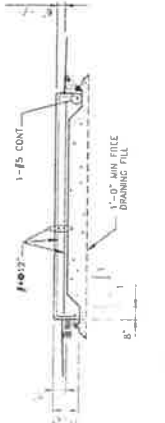
**ADDITIONAL REINFORCEMENT AT OPENINGS IN WALLS AND SLABS**

NIS 1



**HORIZONTAL REINFORCEMENT DETAIL**

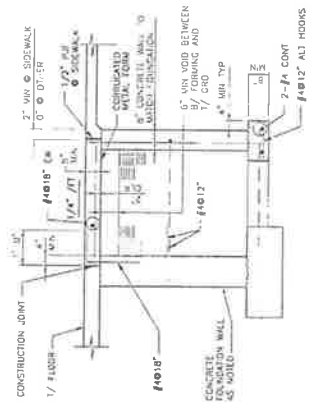
NIS 2



**EQUIPMENT PAD DETAIL**

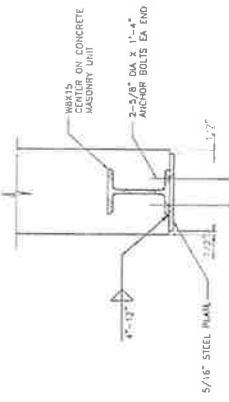
NOTE: AT CONTRACTOR'S OPTION, PAD CAN BE PLACED 1-4" THICK THROUGHOUT.

NIS 3



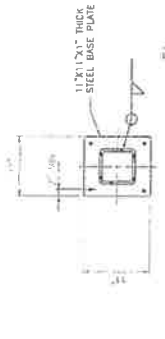
**DOOR STOOP DETAIL**

NIS 4



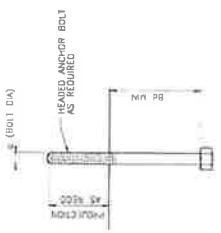
**STEEL LINTEL L-1**

NIS 5



**BASE PLATE DETAIL**

NIS 6



**COLUMN ANCHOR BOLT DETAIL**

NIS 7

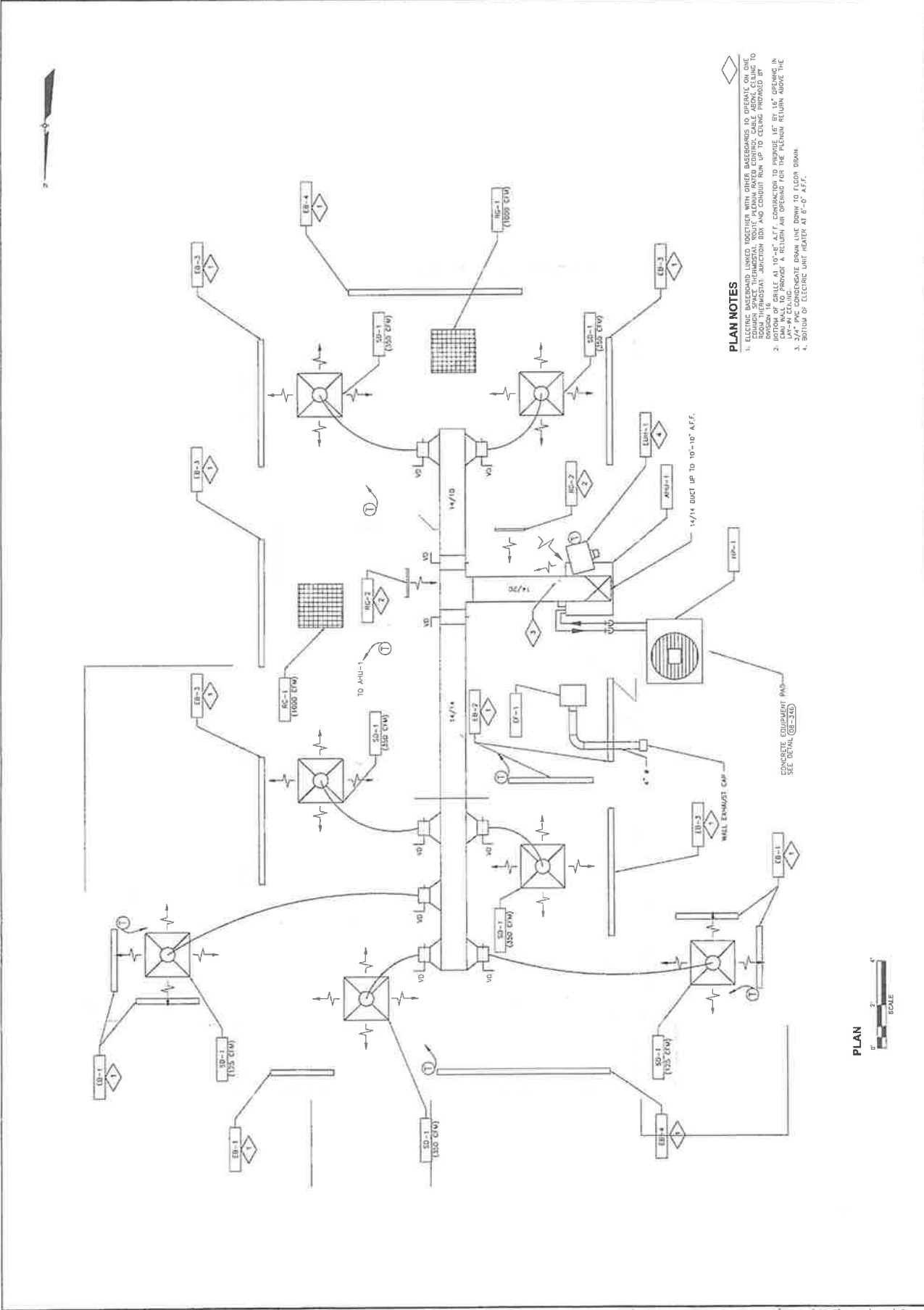
NO	REVISIONS	DATE
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

NO	DATE	BY	CHK	DATE
1	JUNE 2005			
2	JUNE 2005			
3	JUNE 2005			
4	JUNE 2005			
5	JUNE 2005			
6	JUNE 2005			
7	JUNE 2005			
8	JUNE 2005			
9	JUNE 2005			
10	JUNE 2005			


  
 EarthTech  
 A Tyco International Ltd. Company

**PLAN**  
**HVAC**  
 BLACK HAWK COUNTY  
 WATERLOO, IOWA  
 SCALE: 1/8" = 1'-0"

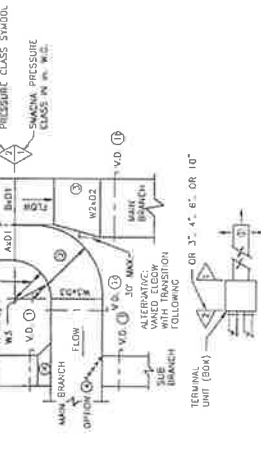
DATE	JUNE 2006
PROJECT NO.	91481
FILE NO.	110002
SHEET NO.	110002
DRAWING NO.	108



- PLAN NOTES**
1. ELECTRIC BASEBOARDS LINKED TOGETHER WITH OTHER BASEBOARDS TO OPERATE ON ONE DIVISION IS PERMITTED. THE DIVISION IS TO BE IDENTIFIED BY THE CONTRACTOR TO THE ROOM HEAT/STANT JUNCTION BOX AND CONTROL RUN UP TO CEILING PROVIDED BY THE CONTRACTOR.
  2. ALL 10\"/>



- VOLANT DAMPER SINGLE BRAD FOR DUCTS 12 IN OR LESS OPPOSED TRANSITION FLOW
- TAKE-OFF
- SPLITTER DAMPER IN LIEU OF DAMPERS 18 AND 16, BUT NOT DAMPERS 1
- WHEN CFM IS NOT LISTED DIVIDE THROUGH AS FOLLOWS:  
 A = (W1) (D1) + (W2) (D2) + (W3) (D3)  
 B = (W1) (D1) + (W2) (D2) + (W3) (D3)  
 A x B = MIN.



CONSTRUCT DUCTWORK TO SPACIA PRESSURE CLASS INDICATED. USE DAMPERS AND FILTERS TO ASSURE CLASS NOT LESS THAN INDICATED. REFER TO APPLICABLE SECTIONS 15840, 15842, OR 15850, AS APPLICABLE.

NOTE: SUPPLY DUCT CONNECTION 09-858

TAG NO.	MANUFACTURER MODEL NO. OR EQ. NO.	TYPE	ELECTRICAL DATA			REMARKS
			HP	VOLT	PHASE	
EB-1	OMARK CBB125A	34" BASEBOARD	750	240	1	3.1 LOW VOLTAGE RELAY SECTION, 25A @ 240V, TYP. OF 5
EB-2	OMARK CBB100A	46" BASEBOARD	1000	240	1	4.2 LOW VOLTAGE RELAY SECTION, 25A @ 240V, TYP. OF 2
EB-3	OMARK CBB150A	70" BASEBOARD	1500	240	1	6.3 LOW VOLTAGE RELAY SECTION, 25A @ 240V, TYP. OF 5
EB-4	OMARK CBB200A	94" BASEBOARD	2000	240	1	8.3 LOW VOLTAGE RELAY SECTION, 25A @ 240V, TYP. OF 2

TAG NO.	MANUFACTURER MODEL NO. OR EQ. NO.	SERVICE	MAX. AIR FLOW (CFM)	MAX. AIR TEMP. (°F)	PATTERN	FINISH	ACCESSORIES	MOUNTING	REMARKS
RD-1	TRUS SOFT	RETURN AIR PLENUM	07	10	ECCENTRIC	WHITE	ALUMINUM FILTER	LAY-IN	24" BY 24" W/ FILTER FRAME, TYP. OF 2
SD-1	TRUS MD-AM	SUPPLY	12	28	RECTANGULAR	WHITE	ALUMINUM DAMPER	LAY-IN	24" BY 24" (8" DIA. DUCT), TYP. OF 7
RC-2	TRUS S302FL	RETURN AIR PLENUM	05	15	0° DEFLECTION	WHITE	ALUMINUM	SURFACE	16" BY 16", TYP. OF 2

TAG NO.	MANUFACTURER MODEL NO. OR EQ. NO.	TYPE	AIR DATA	FAN TIP SPEED (RPM)	FAN TIP DIA. (IN)	MOTOR DATA			REMARKS	
						HP	VOLT	PHASE		
EF-1	GREENHECK SP-BBD	CEILING	76	810	51	WATTS	900	1871	54	DISCONNECT SWITCH (NEMA 1), WEH
BD1	BACKDRFT DAMPER	WALL EXHAUST HOOD								

TAG NO.	MANUFACTURER MODEL NO. OR EQ. NO.	COOLING/HEATING CAPACITY (BTU/H)	NOMINAL TONS	RATED AMBIENT TEMP. (°F)	CALCULATED UNLOADING AMBIENT TEMP. (°F)	SIZES OF UNLOADING	FAN DATA			ELECTRICAL DATA	REMARKS	
							CFM	HP	VOLT			
HP-1	CARRIER 389C-060	60/24	5	85/-14	45							

TAG NO.	MANUFACTURER MODEL NO. OR EQ. NO.	FAN DATA	FILTER DATA	COL	ELECTRICAL DATA			REMARKS					
					HP	VOLT	PHASE						
FCU-1	MACC ARE. RD BDX	2000	0.50	0.69	966	2"	P.LATED	(2) 16" X 25"	0.90	240	1	1725	RETURN AIR PLENUM. HOAT PUMP CONVERSION KIT

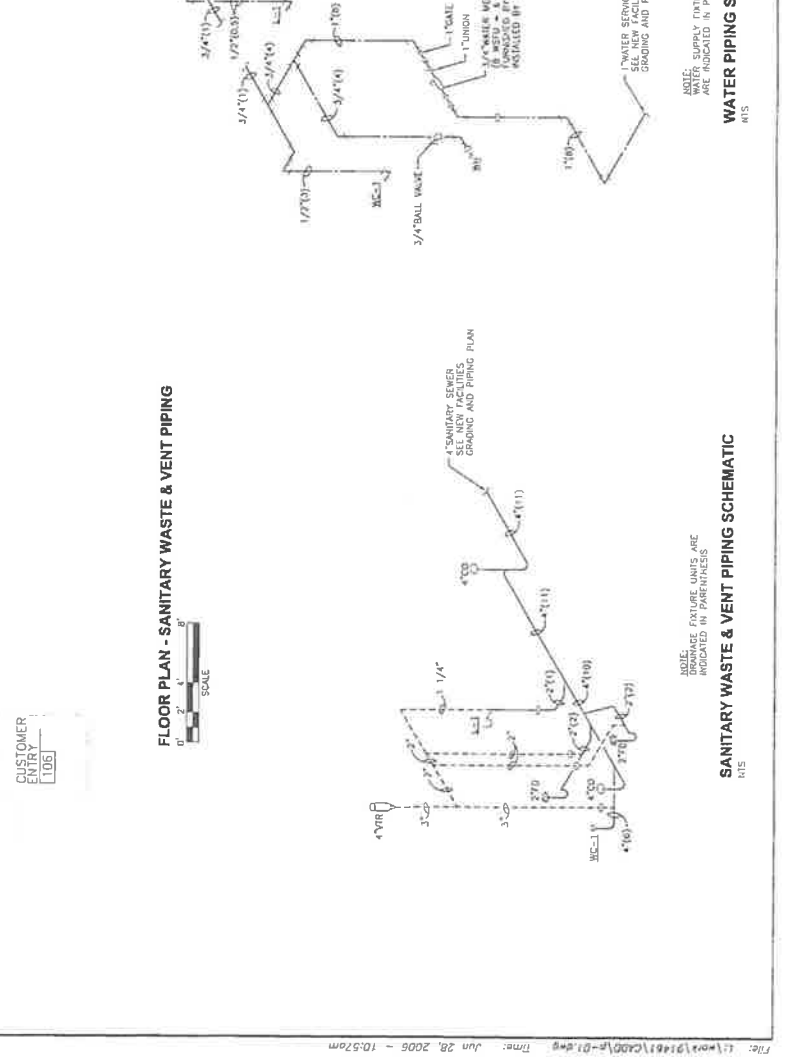
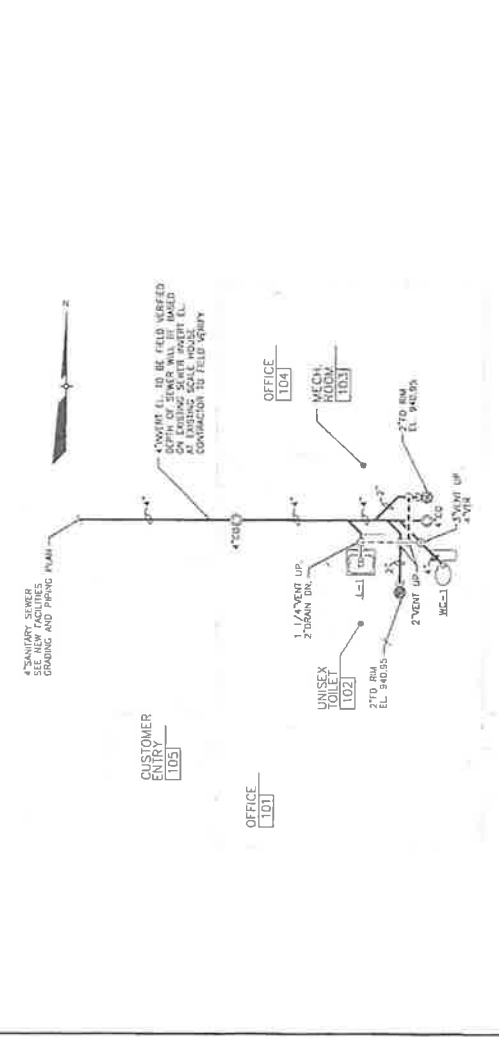
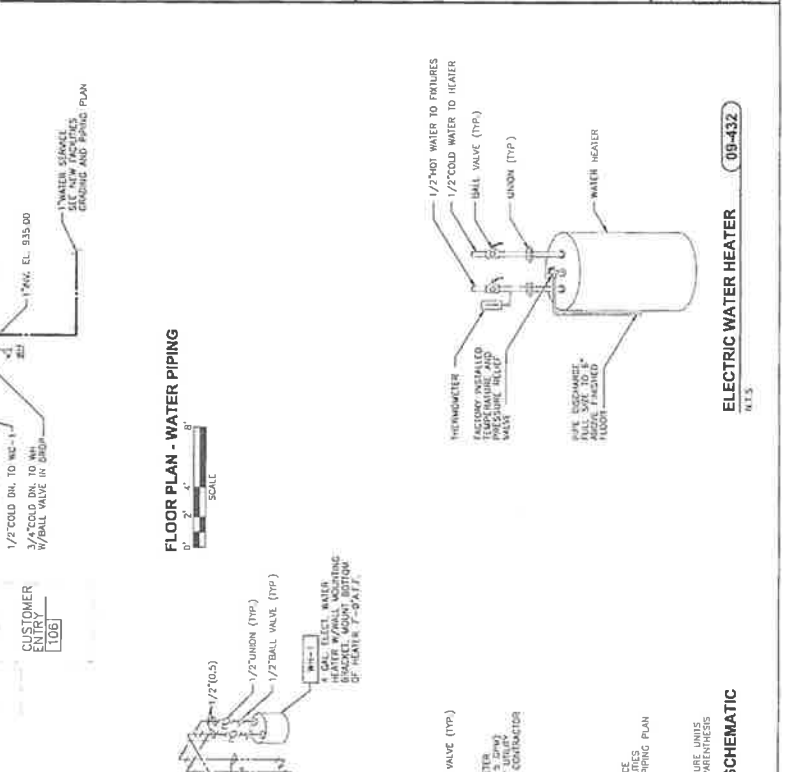
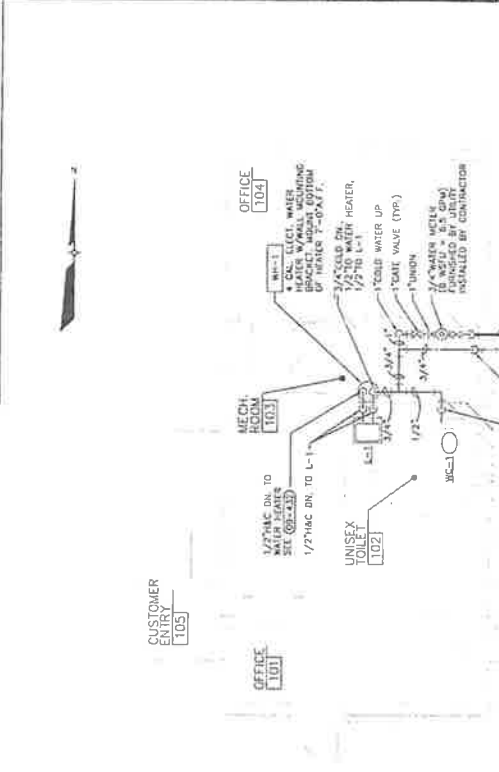
TAG NO.	MANUFACTURER MODEL NO. OR EQ. NO.	TYPE	AIR DATA	MOUNT. (FT)	MOUNT. (IN)	ELECTRICAL DATA			REMARKS							
						HP	VOLT	PHASE								
EHU-1	Q-MARK U-52A	INDUSTRIAL	17.0	8	270	16	80	5	240	1	24	6 WATTS	240	1	1400	COMBINATION WALL/CEILING BRACKET

NO.	REVISIONS	DATE

DATE	JUNE 2006
PROJECT NO.	91441
FILE	p-01.dwg
DWG. NO.	P-01
DRAWING NO.	P-01


  
 A Tyco International US Company

**FLOOR PLANS**  
 BLACK HAWK COUNTY  
 SCALE HOUSE  
 WATERLOO, IOWA  
**SCHEMATICS AND DETAIL**



**09-432**  
 N.E.S.

**WATER PIPING SCHEMATIC**  
 N.E.S.

**SANITARY WASTE & VENT PIPING SCHEMATIC**  
 N.E.S.

NO.	1	ADDITIONAL NO.1
DATE	JUNE 2008	
CHKD.	JUNE 2008	
DATE	JUNE 2008	
CHKD.	JUNE 2008	
DATE	JUNE 2008	
CHKD.	JUNE 2008	
DATE	JUNE 2008	
CHKD.	JUNE 2008	
DATE	JUNE 2008	
CHKD.	JUNE 2008	
DATE	JUNE 2008	

NO.	1	ADDITIONAL NO.1
DATE	JUNE 2008	
CHKD.	JUNE 2008	
DATE	JUNE 2008	
CHKD.	JUNE 2008	
DATE	JUNE 2008	
CHKD.	JUNE 2008	
DATE	JUNE 2008	
CHKD.	JUNE 2008	
DATE	JUNE 2008	
CHKD.	JUNE 2008	
DATE	JUNE 2008	

SHERGOLD  
WISCONSIN

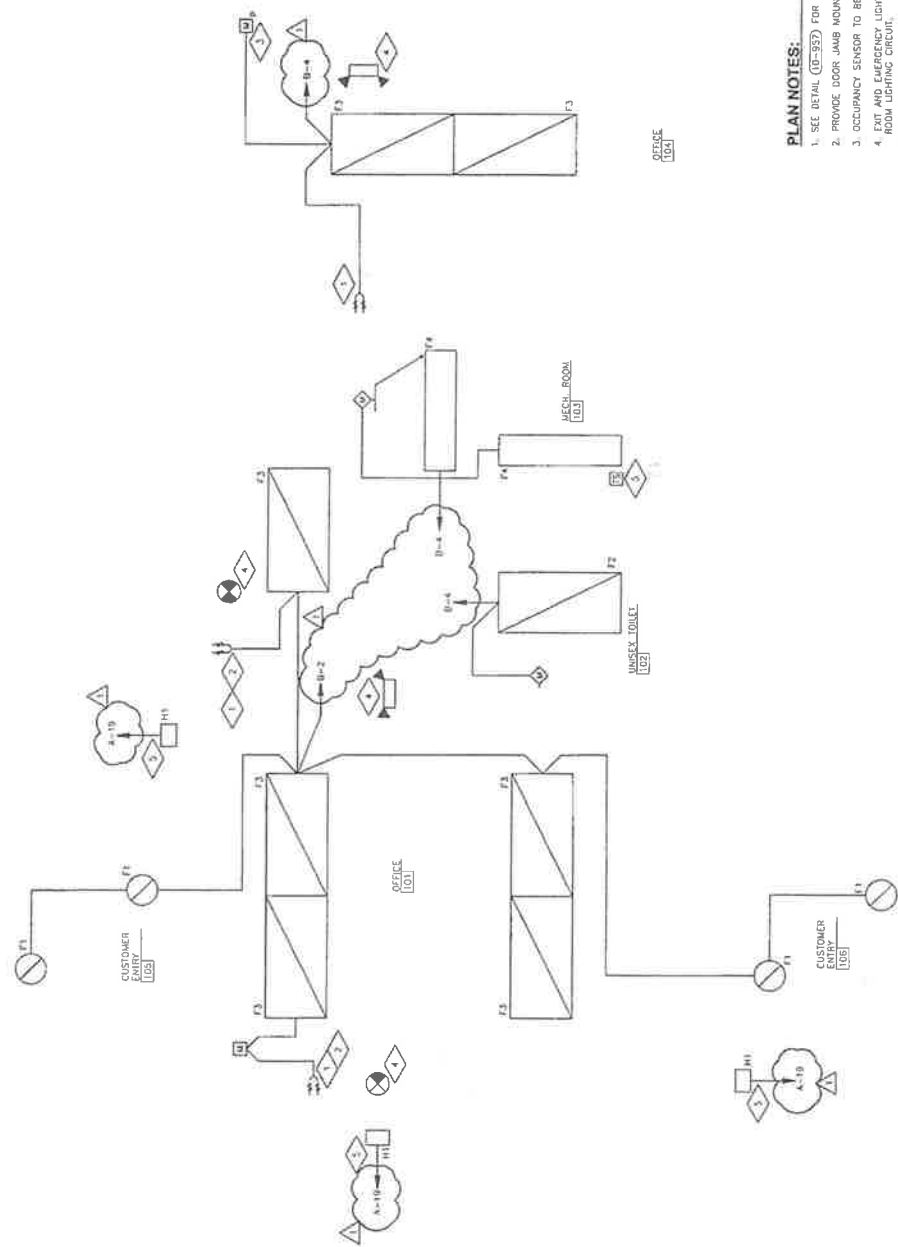


A Tech International Ltd. Company

BLACK HAWK COUNTY  
SCALE HOUSE  
WATERLOO, IOWA  
ELECTRICAL  
LIGHTING PLAN

DATE	JUNE 2008
PROJECT NO.	01-143
FILE	E-01.DWG
SHEET NO.	
DRAWING IFC	

E-01



**PLAN NOTES:**

1. SEE DETAIL (02-357) FOR DUAL LEVEL SWITCHING.
2. PROVIDE DOOR JAMB MOUNTED SWITCHES.
3. OCCUPANCY SENSOR TO BE WIRED IN PARALLEL WITH SWITCHES.
4. EXIT AND EMERGENCY LIGHTING UNITS TO BE WIRED TO LINE SIDE OF ROOM LIGHTING CIRCUIT.
5. FACIA MOUNTED LUMINAIRES TO BE CONTROLLED (ON/OFF) BY TIME SWITCH.



LIGHTING PLAN

NO.	REV.	DATE	BY	CHK.	APP.
1	ADDendum NO. 1	JUNE 2008	DR/KMG	WJG	
		JUNE 2008	DR/KMG	WJG	
		JUNE 2008	DR/KMG	WJG	

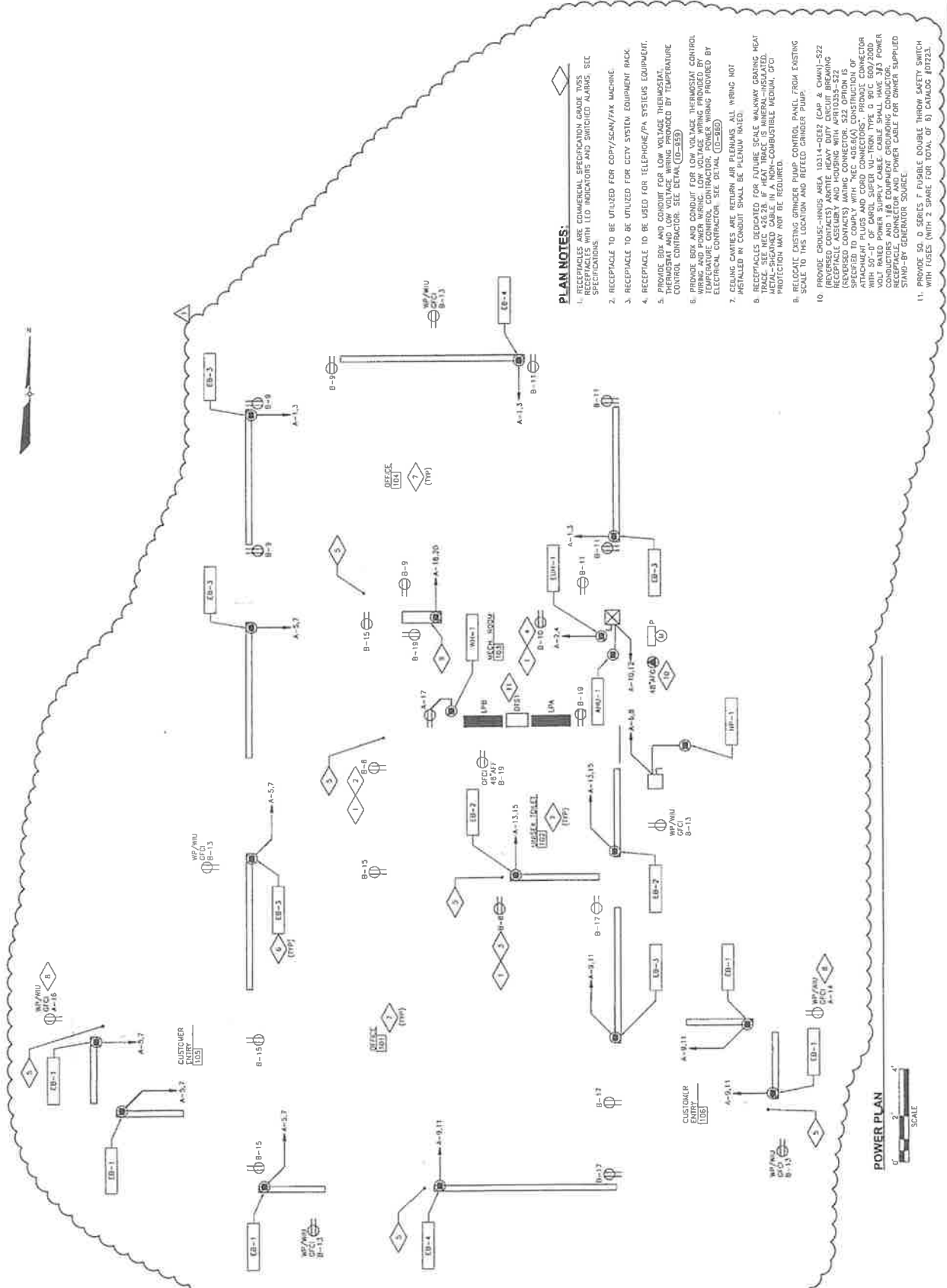
SHEGOM  
WISCONSIN



A Pro International Ltd. Company

BLACK HAWK COUNTY  
SCALE HOUSE  
WATERLOO, IOWA  
ELECTRICAL  
POWER PLAN

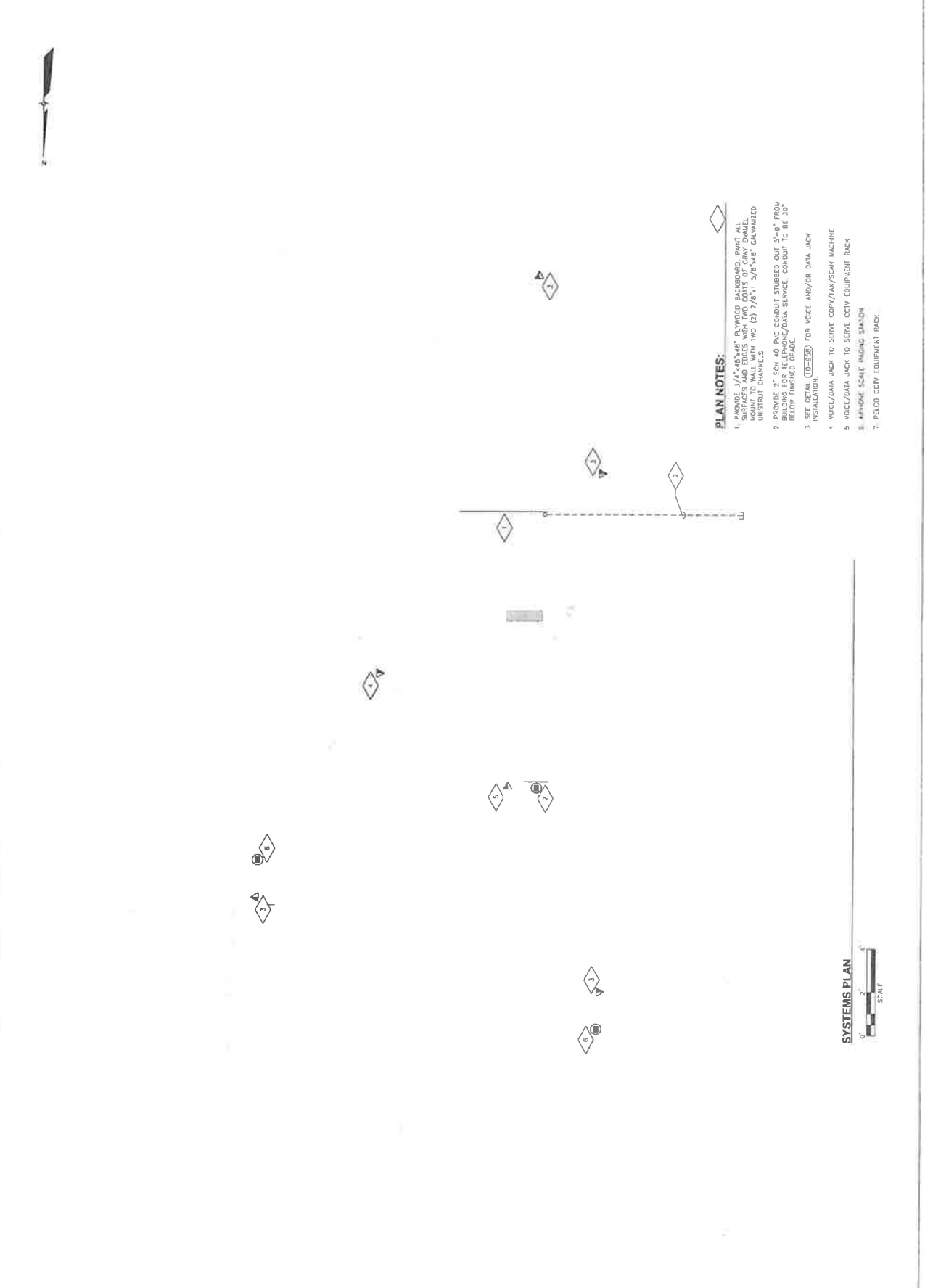
DATE	JUNE 2008
PROJECT NO.	91881
FILE NO.	C-0708P
SHEET NO.	
DRAWING NO.	E-02



- PLAN NOTES:**
1. RECEPTACLES ARE COMMERCIAL SPECIFICATION GRADE TYPES RECEPTACLES WITH LED INDICATORS AND SWITCHED ALARMS. SEE SPECIFICATIONS.
  2. RECEPTACLE TO BE UTILIZED FOR COPY/SCAN/FAX MACHINE.
  3. RECEPTACLE TO BE UTILIZED FOR CCTV SYSTEM EQUIPMENT BACK.
  4. RECEPTACLE TO BE USED FOR TELEPHONE/PA SYSTEMS EQUIPMENT.
  5. PROVIDE BOX AND CONDUIT FOR LOW VOLTAGE THERMOSTAT CONTROL WIRING. THERMOSTAT TO BE PROVIDED BY TEMPERATURE CONTROL CONTRACTOR. SEE DETAIL (CD-359).
  6. PROVIDE BOX AND CONDUIT FOR LOW VOLTAGE THERMOSTAT CONTROL WIRING AND POWER WIRING. LOW VOLTAGE THERMOSTAT CONTROL WIRING AND POWER WIRING PROVIDED BY ELECTRICAL CONTRACTOR. SEE DETAIL (CD-359).
  7. REMAINING CABLE SHALL BE PLUMBING RATED. WIRING NOT ALLOWED IN EXISTING SOURCE PLUMBING RATED.
  8. THERMOSTATS TO BE PROVIDED BY TEMPERATURE CONTROL CONTRACTOR. METAL SHEATHED CABLE IN A NON-COMBUSTIBLE MEDIUM. GFC PROTECTION MAY NOT BE REQUIRED.
  9. RELOCATE EXISTING GRINDER PUMP CONTROL PANEL FROM EXISTING SCALE TO THIS LOCATION AND RELOCATE GRINDER PUMP.
  10. PROVIDE CHOUSE-HINUS AREA 10314-05E2 (CAP & CHAM)-522 RECEPTACLE ASSEMBLY AND HOUSING WITH AFR10235-522 (REVERSE CONTACTS) MATING CONNECTOR. SIZE OPTION IS 3/4" X 1/2" X 1/2" WITH 1/2" X 1/2" X 1/2" HOUSING. PROVIDE CONNECTOR WITH 50'-0" OF CAROL SUPER NI-IRON TYPE 0 90C 600/2000 VOLT RATED POWER SUPPLY CABLE. SMALL HAWK 383 POWER SUPPLY SHALL BE PROVIDED BY TEMPERATURE CONTROL CONTRACTOR. RECEPTACLE CONNECTOR AND POWER CABLE FOR OWNER SUPPLIED STAND-BY GENERATOR SOURCE.
  11. PROVIDE 50 0 SERIES F FUSIBLE DOUBLE THROW SAFETY SWITCH WITH FUSES (WITH 2 SPARE FOR TOTAL OF 6) CATALOG #DT23.

POWER PLAN  
0 1 2  
SCALE

<b>EarthTech</b> A Tech International Ltd. Company		<b>ELECTRICAL</b> <b>SYSTEMS PLAN</b> BLACK HAWK COUNTY SCALE HOUSE WATERLOO, IOWA	
SHEBOYGAN WISCONSIN 38th K&R JUNE 2006 DES. NWC JUNE 2006 CHIEF JUNE 2006 APP.	NO. 1 JUNE 2006	DATE: JUNE 2006 PROJECT NO: 187K61	FILE NO: E-01EWD SHEET NO: DRAWING NO: E-03



- PLAN NOTES:**
1. PROVIDE 3/4" x 48" x 48" PLYWOOD BACKBOARD, PAINT ALL SURFACES AND EDGES WITH TWO COATS OF GRAY EMERALD. PROVIDE TWO (2) 7/8" x 3/8" x 48" GALVANIZED UNISTRUT CHANNELS.
  2. PROVIDE 3" SCH 40 PVC CONDUIT STUBBED OUT 6"-6" FROM BUILDING FOR TELEPHONE/DATA SERVICE. CONDUIT TO BE 30" BELOW FINISHED GRADE.
  3. SEE DETAIL (ED-306) FOR VOICE AND/OR DATA JACK INSTALLATION.
  4. VOICE/DATA JACK TO SERVE COPY/FAX/SCAN MACHINE.
  5. VOICE/DATA JACK TO SERVE CCTV EQUIPMENT RACK.
  6. APPROX. SCALE IMAGING STATION.
  7. PLECO CCTV EQUIPMENT RACK.



### LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	LAMPS QUANTITY	CHASER ALLOCATION	DESCRIPTION	MANUFACTURER / CATALOG NUMBER	NOTES
F1	2	1PW/CFL/85	2" COMPACT FLUORESCENT DOWNLIGHT WITH INTEGRATED PRESSURIZED GLASS LENS AND MULTIPLE ELECTRONIC BALLAST. DR EQUALS BY DAPRI OR HALO	RESERLITE 1570-18-188-147Y-85BPP	
F2	2	F03218/735 or F3218/5035	21.4" STAIN. RECESSED TROUSER SUITABLE FOR SUSPENDED CEILING GRID MOUNTING. LENS IS PATERN A12, 0.125 THICK ACRYLIC. 120VAC INPUT, 2 BALLASTS FOR DUAL LIGHTING SCHEM.	COLUMBIA 1874-232C-F8-125-EBB-120-PAF	
F3	4	F03218/735 or F3218/5035	21.4" STAIN. RECESSED TROUSER SUITABLE FOR SUSPENDED CEILING GRID MOUNTING. LENS IS PATERN A12, 0.125 THICK ACRYLIC. 120VAC INPUT, 2 BALLASTS FOR DUAL LIGHTING SCHEM.	COLUMBIA 1874-232C-F8-125-EBB-120-PAF	SEE DETAIL 10-357
F4	2	F03218/735 or F3218/5035	4"-07" OPEN INDUSTRIAL WITH 10X ENLIGHT.	COLUMBIA IC-232-F8-120	OR EQUAL BY DAY-BRITE OR WILLIAMS
H1	1	LU70	COMPACT EXTERIOR WALL PACK WITH GLASS REFRACTOR AND ABSORBER. COLOR AS SELECTED ON	HUBBELL SECURITY LIGHTING SWP-70HP5-MT	OR EQUAL BY LOMARK
H2	1	LU250	CUTOFF, TYP II, ROOMWAY LUMINAIRE MOUNTED ON WALL. COLOR GRAY. MULTIP. BALLAST. PHOTOCONTROL.	HUBBELL HMC-3-3/RMD-25518-3, WITH POLE, ARM	OR EQUALS BY STREETWORKS DR DE
(Symbol)	INCLUDE	LED	EXT. SIGN, 120/277VAC, 0.01Z AND SINGLE AND/OR DOUBLE TAP. TYP II, ROOMWAY LUMINAIRE MOUNTED ON WALL. COLOR GRAY. MULTIP. BALLAST. PHOTOCONTROL. EXTENDED BRIGHT WHITE FINISH WITH 6 RED HIGH-OUTPUT LEDS. UNIVERSAL ELECTRONIC.	DAV (1E) (INTERCOM. LUMINE) OR EQUAL BY SURELITE.	
(Symbol)	INCLUDE	MAGNETIC SCALD BEAM	QUAL. LIFE SERIES E12-21	OR EQUAL BY SURELITE	

### PANEL SCHEDULE LPA

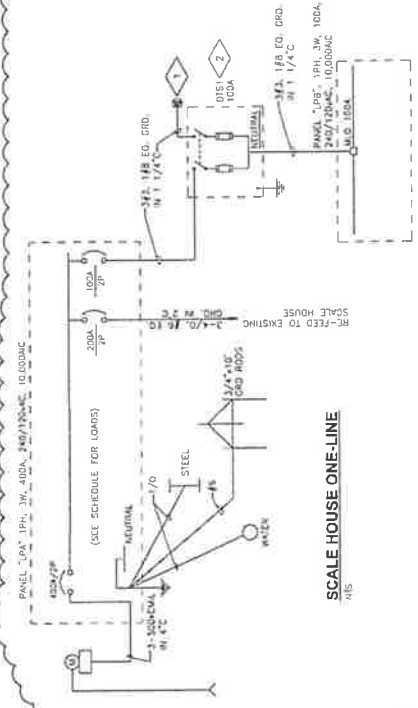
SURFACE MOUNTED NEUA J.L. 400A MAIN BREAKER  
 120/240 V, 3 PHASE, 3 WIRE 400A MAIN BUS  
 RATING 10,000 A.I.C. 400A CRD. BUS

CKT NO	REP/NO	DESCRIPTION	REP/NO
1	30/2	OFFICE FOR DISBURSED ELECTRIC HEATERS	30/2
3	30/2	OFFICE FOR DISBURSED ELECTRIC HEATERS	30/2
5	30/2	OFFICE (101) CUSTOMER ENTRY (105)	60/2
7	30/2	BASEBOARD ELECTRIC HEATERS	20/2
11	30/2	OFFICE (101) CUSTOMER ENTRY (100)	20/2
13	20/2	WALKS TOWER (102)	20/1
15	20/2	BASEBOARD ELECTRIC HEATERS	20/1
17	20/1	WALKER WALKER WALKER	20/1
18	20/1	EXTENSIVE/PAINT WALL RACKS	40/2
20	20/1	SPACE	20
22	20/1	SPACE	20
24	20/1	SPACE	20
26	20/1	FEEDER TO D511/LPB	100/2
28	20/1	SPACE	20

### PANEL SCHEDULE LPB

SURFACE MOUNTED NEUA J.L. 100A MAIN BUS ONLY  
 120/240 V, 3 PHASE, 3 WIRE 100A MAIN BUS  
 RATING 10,000 A.I.C. 100A CRD. BUS

CKT NO	REP/NO	DESCRIPTION	REP/NO
1	20/1	BARBER GATE (ORANGE MOTOR & HTR)	20/1
3	20/1	BARBER GATE (ORANGE MOTOR & HTR)	20/1
5	20/1	BARBER GATE (ORANGE MOTOR & HTR)	20/1
7	20/1	BARBER GATE (ORANGE MOTOR & HTR)	20/1
9	20/1	OFFICE 104	20/1
11	20/1	OFFICE 104	20/1
13	20/1	OFFICE 104	20/1
15	20/1	OFFICE 101	20/1
17	20/1	OFFICE 101	20/1
19	20/1	OFFICE 101	20/1

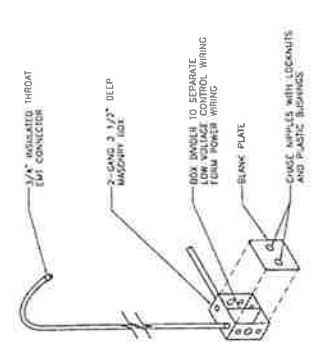


**SCALE HOUSE ONE-LINE NOTES:**  
 1. SEE PLAN NOTE 10 ON E-02.  
 2. SEE PLAN NOTE 11 ON E-02.

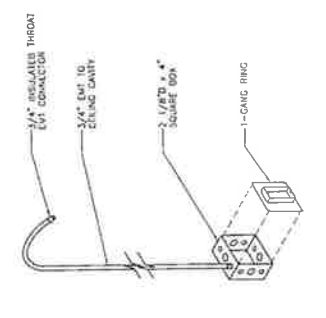
BLACK HAWK COUNTY SCALE HOUSE WATERLOO, IOWA ELECTRICAL SCHEDULES

EARTHTECH

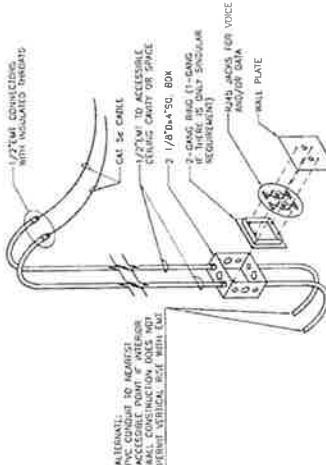
DATE	JUNE 2008
PROJECT NO	01481
FILE NO	E-04 ELEC
SHEET NO	
DRAWING NO	E-04



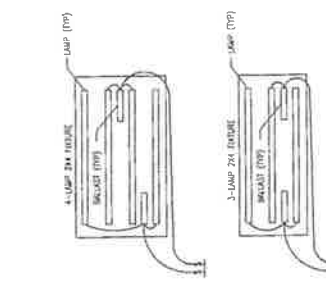
**10-960**  
 BACKBOX DETAIL FOR LOW VOLTAGE CONTROL WIRING AT ELECTRIC BASEBOARD HEATERS  
 NIS



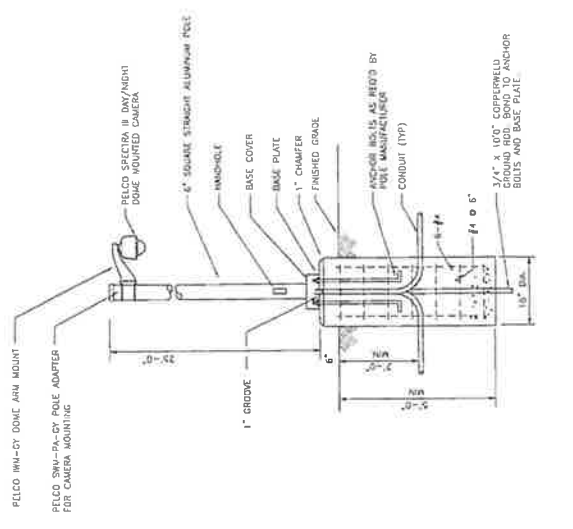
**10-959**  
 BACKBOX DETAIL FOR LOW VOLTAGE THERMOSTAT INSTALLATION  
 NIS



**10-958**  
 VOICE AND/OR DATA JACK INSTALLATION  
 NIS



**10-957**  
 DUAL LIGHTING LEVEL DETAIL  
 NIS



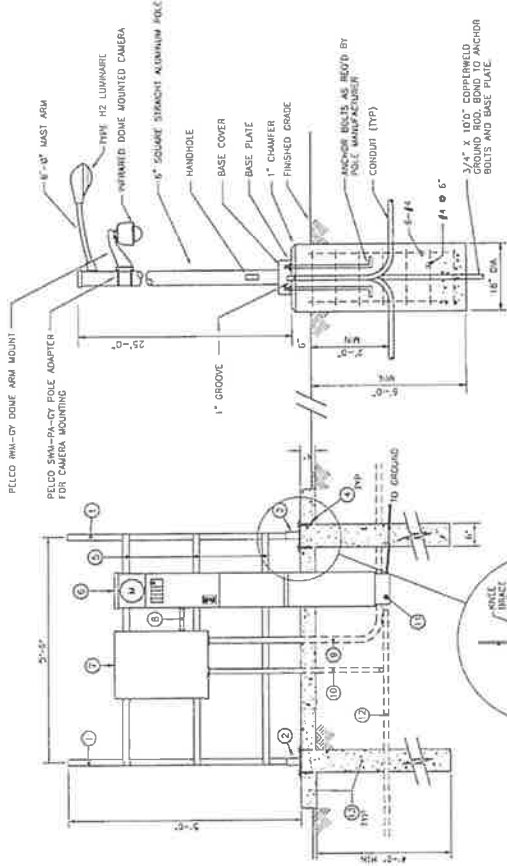
**10-961**  
 POLE MOUNTED CAMERA DETAIL  
 NIS

NO.	REVISIONS	DATE
1	REVISED FOR FIELD	JUNE 2006
2	REVISED FOR FIELD	JUNE 2006
3	REVISED FOR FIELD	JUNE 2006

DATE	BY	CHKD	APP'D
JUN 2006	JUN 2006	JUN 2006	JUN 2006
JUN 2006	JUN 2006	JUN 2006	JUN 2006
JUN 2006	JUN 2006	JUN 2006	JUN 2006

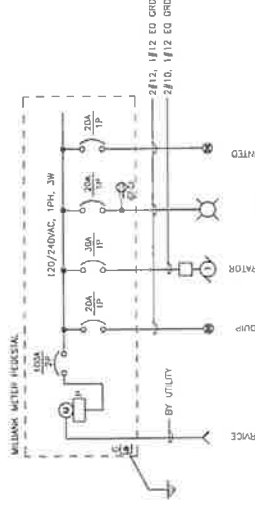


BLACK HAWK COUNTY SCALE HOUSE WATERLOO, IOWA	<b>ELECTRICAL DETAILS</b>
DATE: JUNE 2006	PROJECT NO: 10-962
FILE NO: C-060002	SHEET NO:
DRAWING NO: E-06	

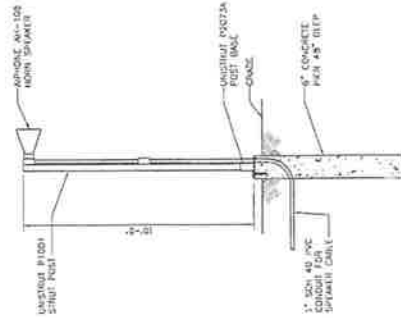


**REMOTE ELECTRIC OPERATED GATE, CAMERA AND AREA LIGHTING RACK DETAIL 10-962**

- DETAIL ITEM NUMBERS**
1. SINGLE POST GALVANNEZED.
  2. UNISTRUT POST BASE - GALVANNEZED.
  3. UNISTRUT 1 1/2\"/>
  - 4. UNISTRUT 1 1/2\"/>
  - 5. UNISTRUT 1\"/>
  - 6. UNISTRUT 1\"/>
  - 7. UNISTRUT 1\"/>
  - 8. UNISTRUT 1\"/>
  - 9. 1\"/>
  - 10. 1\"/>
  - 11. MOUNTED INFRARED DOME CAMERA.
  - 12. 1\"/>
  - 13. CONCRETE SHALL BE FIBER REINFORCED.



**WIRING DIAGRAM**



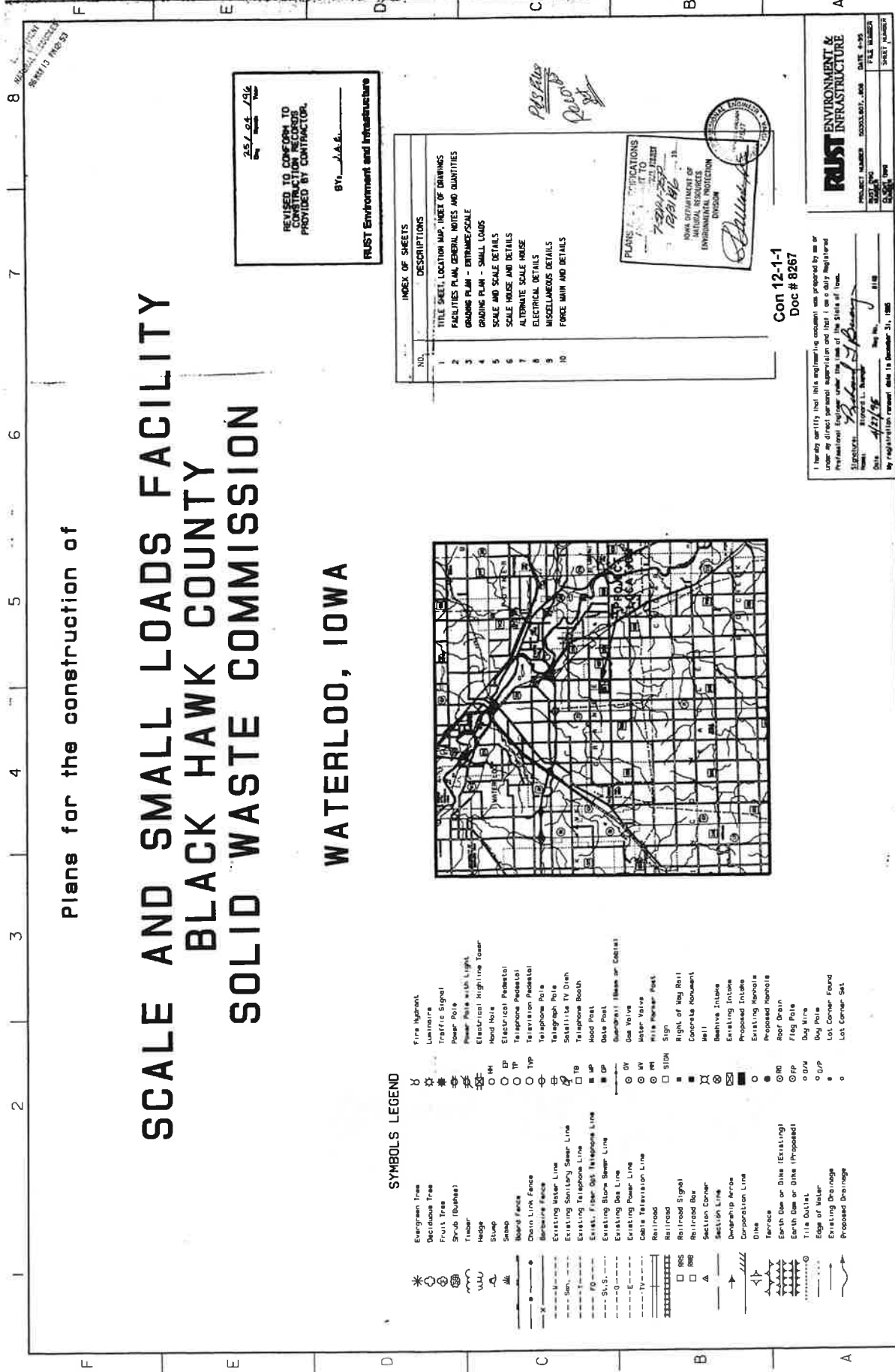
**HORN SPEAKER STANCHION DETAIL 10-963**



Plans for the construction of

# SCALE AND SMALL LOADS FACILITY BLACK HAWK COUNTY SOLID WASTE COMMISSION

WATERLOO, IOWA



### SYMBOLS LEGEND

- |                                     |                              |
|-------------------------------------|------------------------------|
| Evergreen Trees                     | Fire Hydrant                 |
| Deciduous Tree                      | Luminaire                    |
| Fruit Tree                          | Traffic Signal               |
| Shrub (Bulfinch)                    | Power Pole                   |
| Trailer                             | Power Pole with Light        |
| Hedge                               | Electrical High Line Tower   |
| Slump                               | Hand Hole                    |
| Swamp                               | Electrical Pedestal          |
| Board Fence                         | Telephone Pedestal           |
| Barbed Wire Fence                   | Telephone Pole               |
| Existing Water Line                 | Teletype Pole                |
| Existing Sanitary Sewer Line        | Satellite TV Dish            |
| Existing Telephone Line             | Telephone Booth              |
| Existing Fiber Optic Telephone Line | Wood Post                    |
| Existing Storm Sewer Line           | Substrate (Blaze or Catwalk) |
| Existing Gas Line                   | Gas Valve                    |
| Existing Power Line                 | Water Valve                  |
| Existing Television Line            | Wire Marker Post             |
| Railroad                            | Sign                         |
| Railroad Signal                     | Right of Way Roll            |
| Railroad Box                        | Concrete Monument            |
| Section Corner                      | Well                         |
| Section Line                        | Beehive Intake               |
| Ownership Terrace                   | Existing Intake              |
| Corporation Line                    | Proposed Intake              |
| Dike                                | Existing Manhole             |
| Terrace                             | Proposed Manhole             |
| Earth Dam or Dike (Existing)        | Road Drain                   |
| Earth Dam or Dike (Proposed)        | Flag Pole                    |
| Tile Outfall                        | Dug Mine                     |
| Edge of Water                       | Bag Pole                     |
| Existing Drainage                   | Lot Corner Found             |
| Proposed Drainage                   | Lot Corner Set               |

NO.	DESCRIPTIONS
1	TITLE SHEET, LOCATION MAP, INDEX OF DRAWINGS
2	FACILITIES PLAN, GENERAL NOTES AND QUANTITIES
3	GRADING PLAN - EXTERIOR/SCALE
4	SCALE AND SCALE DETAILS
5	SCALE HOUSE AND DETAILS
6	ALTERNATE SCALE HOUSE
7	ELECTRICAL DETAILS
8	MISCELLANEOUS DETAILS
9	FORCE MAIN AND DETAILS
10	

PLANS SUBMITTED TO  
7-22-73  
12-11-73

STATE OF IOWA  
DEPARTMENT OF  
NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION  
DIVISION

*[Signature]*



Con 12-1-1  
Doc # 8257

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly registered Professional Engineer under the laws of the State of Iowa.

Signature: *[Signature]*  
Name: Edward L. [Name]  
Date: 12/11/73  
My registration expires on: 12/31/1985

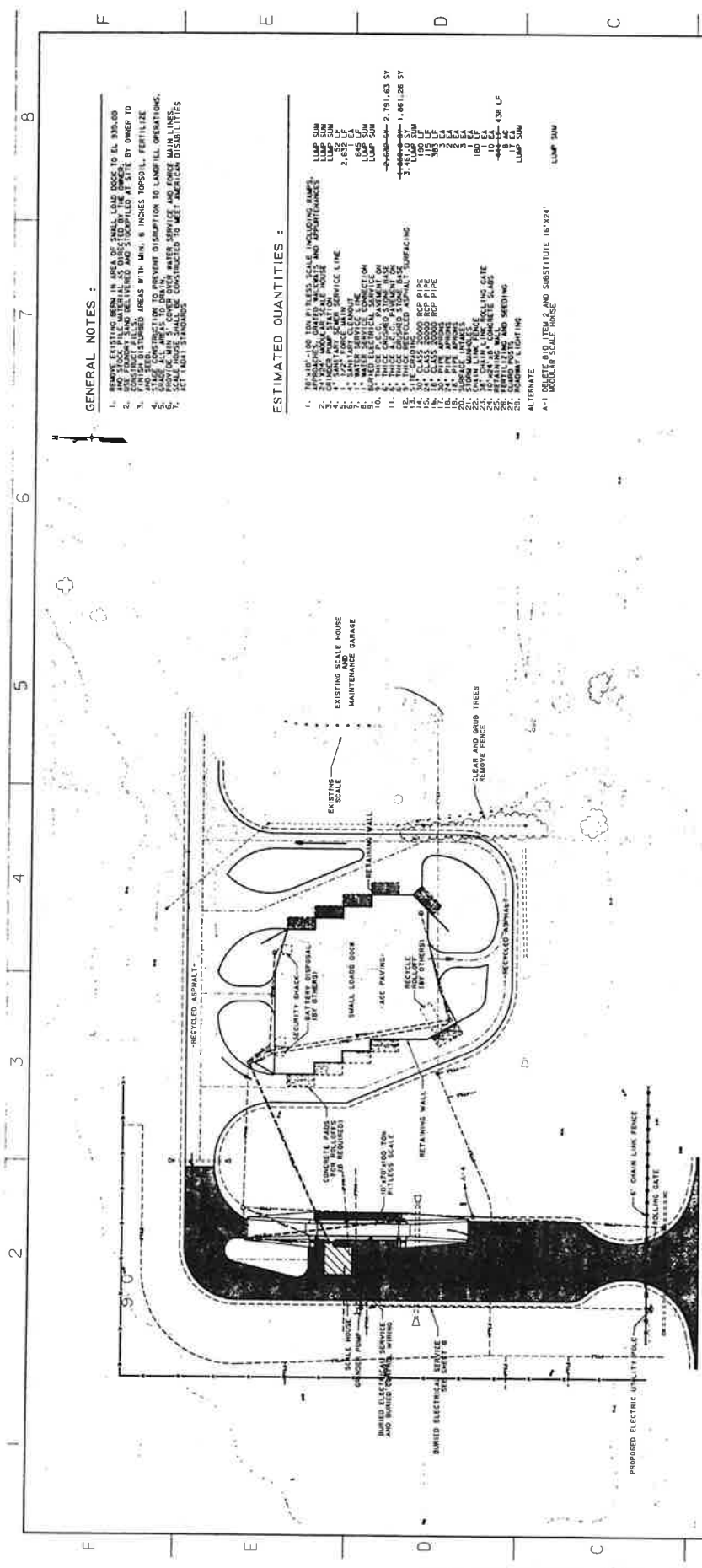
25 / 64 / 1974  
REVISED TO CONFORM TO  
CONSTRUCTION RECORDS  
PROVIDED BY CONTRACTOR.

BY: *[Signature]*  
RUST Environment and Infrastructure

**RUST ENVIRONMENT & INFRASTRUCTURE**

PROJECT NUMBER: 82003.001.005  
DATE: 4-79  
SHEET NUMBER: 12-1-1

The drawings, specifications and other documents prepared by the Engineer for the use of any contractor are to be used only for the project and site shown on the drawings. The contractor shall be responsible for the accuracy of the information provided on the drawings and for the proper interpretation of the same.



**GENERAL NOTES :**

1. REMOVE EXISTING BURN IN AREA OF SMALL LOOSE DOOR TO EL. 339.00
2. USE EXISTING SAND BELIEVED AND STOCKPILED AT SITE BY OWNER TO FILL IN DISTURBED AREAS WITH MIN. 6 INCHES TOPSOIL, FERTILIZE
3. SAME CONSTRUCTION TO PREVENT DISRUPTION TO LANDFILL OPERATIONS.
4. PROVIDE MIN. 5" COVER OVER WATER SERVICE AND FORCE MAIN LINES.
5. ALL UTILITIES TO BE CONSTRUCTED TO MEET AMERICAN DISABILITIES ACT (ADA) STANDARDS.

**ESTIMATED QUANTITIES :**

1. 10'x10' 100 TON PITLESS SCALE INCLUDING SHIPPS
2. APPROXIMATE GRATED WALKWAY AND APPOINTMENTS
3. 20'x30' CONCRETE PAD FOR HOUSE
4. 10'x10' CONCRETE PAD FOR HOUSE
5. 10'x10' CONCRETE PAD FOR HOUSE
6. 10'x10' CONCRETE PAD FOR HOUSE
7. 10'x10' CONCRETE PAD FOR HOUSE
8. 10'x10' CONCRETE PAD FOR HOUSE
9. 10'x10' CONCRETE PAD FOR HOUSE
10. 10'x10' CONCRETE PAD FOR HOUSE
11. 10'x10' CONCRETE PAD FOR HOUSE
12. 10'x10' CONCRETE PAD FOR HOUSE
13. 10'x10' CONCRETE PAD FOR HOUSE
14. 10'x10' CONCRETE PAD FOR HOUSE
15. 10'x10' CONCRETE PAD FOR HOUSE
16. 10'x10' CONCRETE PAD FOR HOUSE
17. 10'x10' CONCRETE PAD FOR HOUSE
18. 10'x10' CONCRETE PAD FOR HOUSE
19. 10'x10' CONCRETE PAD FOR HOUSE
20. 10'x10' CONCRETE PAD FOR HOUSE
21. 10'x10' CONCRETE PAD FOR HOUSE
22. 10'x10' CONCRETE PAD FOR HOUSE
23. 10'x10' CONCRETE PAD FOR HOUSE
24. 10'x10' CONCRETE PAD FOR HOUSE
25. 10'x10' CONCRETE PAD FOR HOUSE
26. 10'x10' CONCRETE PAD FOR HOUSE
27. 10'x10' CONCRETE PAD FOR HOUSE
28. 10'x10' CONCRETE PAD FOR HOUSE
29. 10'x10' CONCRETE PAD FOR HOUSE
30. 10'x10' CONCRETE PAD FOR HOUSE

E. WASHBURN ROAD (IFCC PAVEMENT)

Con 12-1-1  
Doc # 8268



**FACILITIES PLAN  
GENERAL NOTES  
AND QUANTITIES**

NAMES	DATE
DRAWN: RLB	4-95
CHECKED: RLB	4-95
APP'D: RLB	4-95

NO.	REVISIONS	DATE	BY

NO.	REVISIONS	DATE	BY

NO.	REVISIONS	DATE	BY

NO.	REVISIONS	DATE	BY

NO.	REVISIONS	DATE	BY

NO.	REVISIONS	DATE	BY

BLACK HAWK COUNTY  
SOLID WASTE COMMISSION  
MILWAUKEE, WISCONSIN 53104

PROJECT NUMBER: 800597-105  
DATE: 4/95  
SHEET NUMBER: 1

PROJECT NUMBER: 800597-105  
DATE: 4/95  
SHEET NUMBER: 1

PROJECT NUMBER: 800597-105  
DATE: 4/95  
SHEET NUMBER: 1

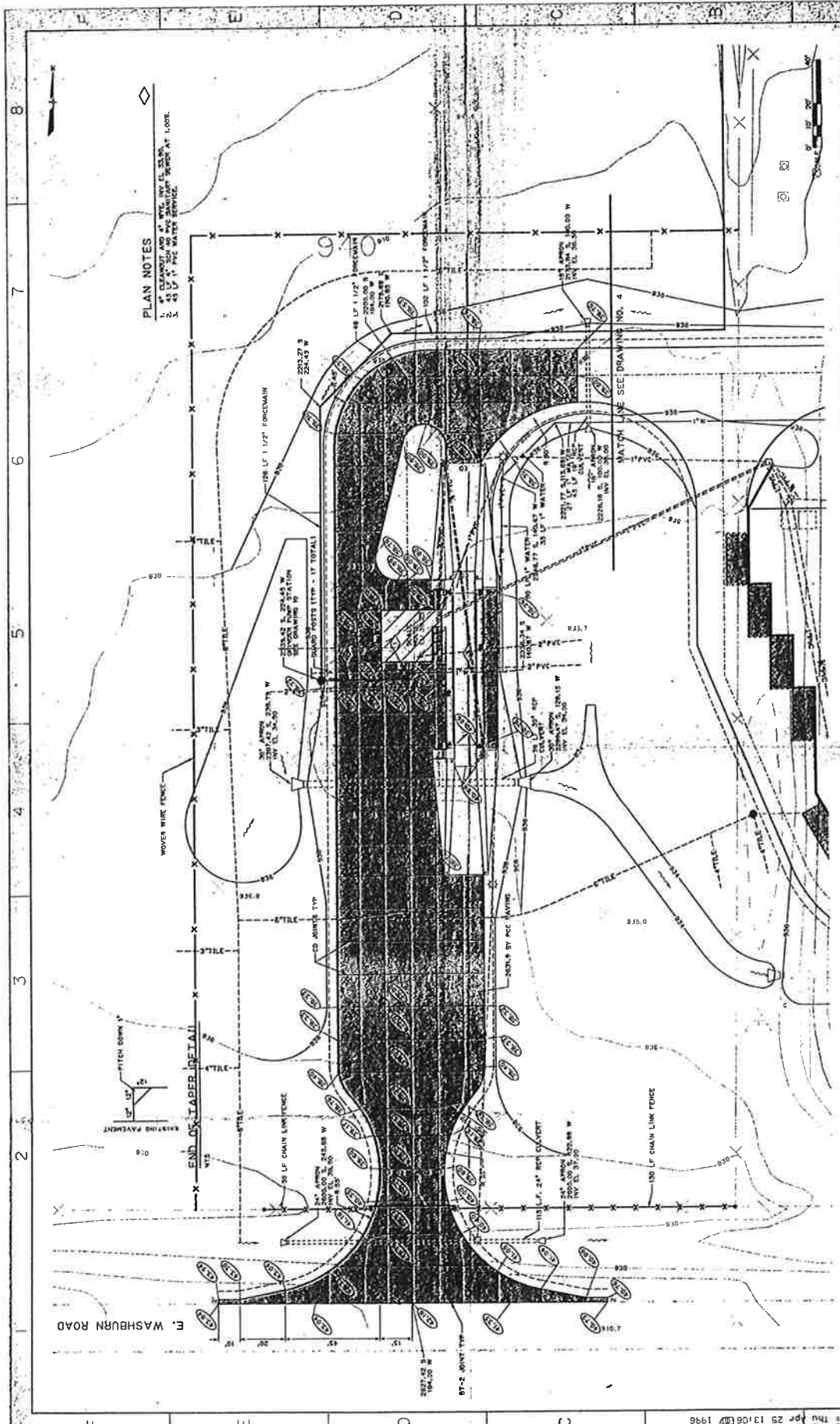
PROJECT NUMBER: 800597-105  
DATE: 4/95  
SHEET NUMBER: 1

PROJECT NUMBER: 800597-105  
DATE: 4/95  
SHEET NUMBER: 1

PROJECT NUMBER: 800597-105  
DATE: 4/95  
SHEET NUMBER: 1

PROJECT NUMBER: 800597-105  
DATE: 4/95  
SHEET NUMBER: 1

The drawings, specifications and other documents prepared by the Engineer for this project are intended for use solely with respect to this project and shall not be used for any other project without the prior written consent of the Engineer. The Engineer's liability shall be limited to the amount of the contract fee and shall not extend to any other project or to any other person or entity. The Engineer's liability shall not be limited by the amount of the contract fee and shall not extend to any other project or to any other person or entity.



- PLAN NOTES**
- SEE DWG. E. 8269
  - SEE DWG. E. 8269
  - SEE DWG. E. 8269

**RUST**  
 ENVIRONMENT &  
 INFRASTRUCTURE

GRADING PLAN  
 ENTRANCE/SCALE

CON 12-1-1  
 Doc # 8269

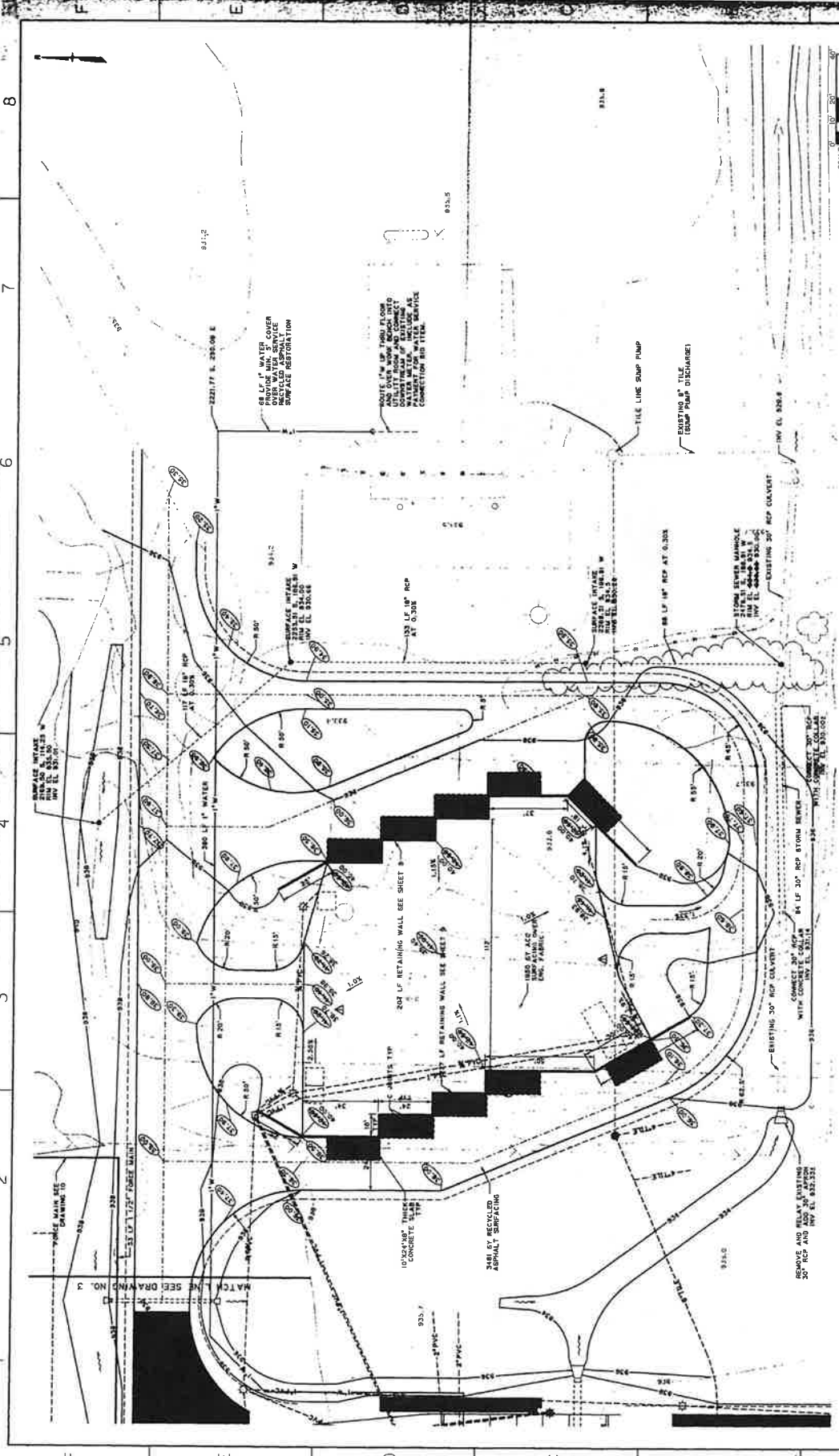
REV	DATE	BY	CHK	DESCRIPTION

NO.	REVISION	DATE	BY	CHK	DESCRIPTION

This drawing is the property of Rust Environment & Infrastructure. It is to be used only for the project and site identified on this drawing. It is not to be used for any other project or site without the written consent of Rust Environment & Infrastructure. The user of this drawing warrants that it is a true and correct representation of the design and construction of the project. Rust Environment & Infrastructure shall not be held liable for any errors or omissions in this drawing.

DATE: Thu Apr 25 13:06 EDT 1996  
 USER: e:\p0303905\mload\ent\ent.dwg  
 PLOT: e:\p0303905\mload\ent\ent.plt  
 PLOTTER: HP-GL/2  
 PLOTTING: 1/20=31.51=82

8 7 6 5 4 3 2



**RUST ENVIRONMENT & INFRASTRUCTURE**

**GRADING PLAN  
SMALL LOADS**

BLICK HAWK COUNTY  
SOLID WASTE COMMISSION

PROJECT NUMBER: 50303905  
DATE: 4-95

FILE NUMBER: 1051210  
SHEET NUMBER: 11

SCALE: 1" = 20'

CON 12-1-1  
DOC # 8270

RECORD DRAWINGS

ADAPTED SMALL LOAD GRADING & LAYOUT

DATE: 5-23-20

MADE BY: [Name]

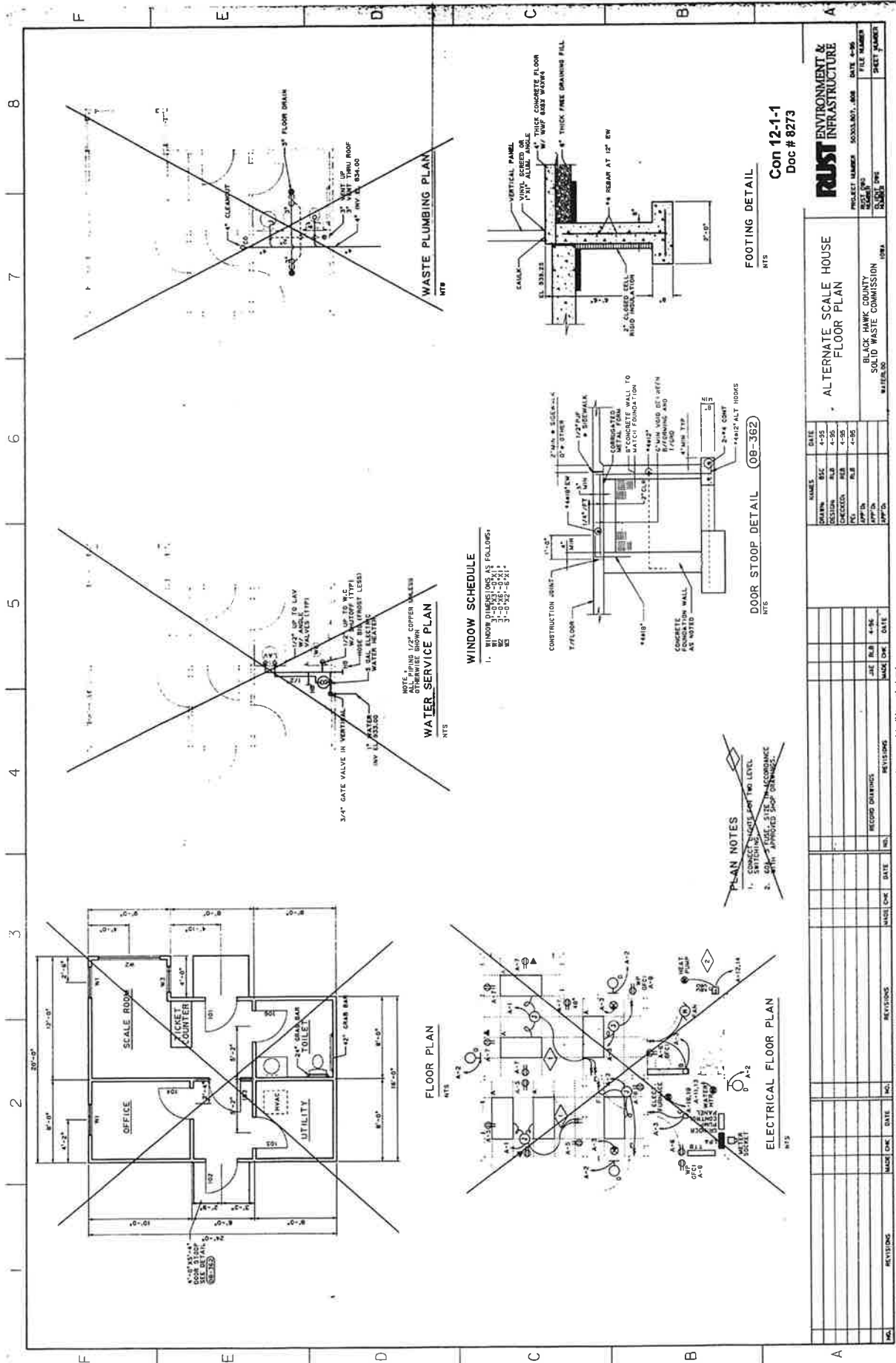
REVISIONS

The drawings, specifications and other documents prepared by the Engineer for this project are instruments of the Engineer's service for use solely with respect to the project shown on these drawings. The Engineer shall be deemed the author of these documents and shall retain all common law, statutory and other intellectual property rights in these documents.









**Con 12-1-1**  
**Doc # 8273**

**RUST ENVIRONMENT & INFRASTRUCTURE**

PROJECT NUMBER: 803333017\_A08  
DATE: 4-06  
FILE NUMBER: \_\_\_\_\_  
SHEET NO.: \_\_\_\_\_  
SHEET TITLE: \_\_\_\_\_

ALTERNATE SCALE HOUSE  
FLOOR PLAN

BLACK HAWK COUNTY  
SOLID WASTE COMMISSION

DATE: 4/12/06

REV.	DATE	BY	CHK	DATE
1	4-05	MSC	MSC	4-05
2	4-05	MSC	MSC	4-05
3	4-05	MSC	MSC	4-05
4	4-05	MSC	MSC	4-05

NO.	REVISIONS	MADE BY	DATE	CHK BY	DATE

NO.	REVISIONS	MADE BY	DATE	CHK BY	DATE

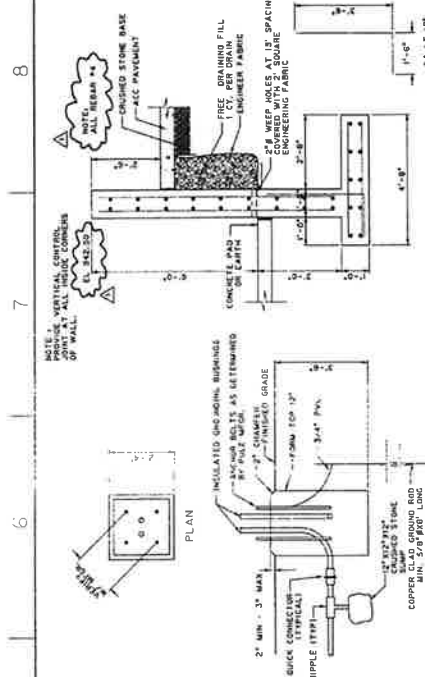
NO.	REVISIONS	MADE BY	DATE	CHK BY	DATE

NO.	REVISIONS	MADE BY	DATE	CHK BY	DATE

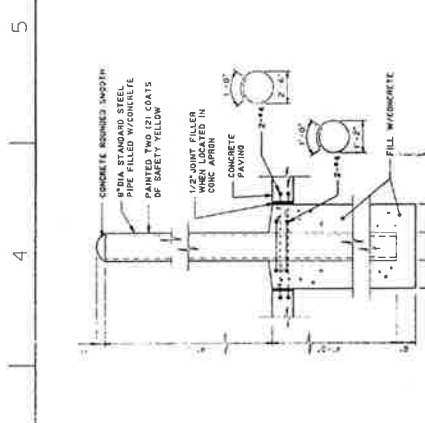
NO.	REVISIONS	MADE BY	DATE	CHK BY	DATE

The drawings, specifications and other information herein are the property of the Engineer's services for use solely with respect to the project and shall not be used for any other project without the written consent of the Engineer. The drawings and specifications shall remain the property of the Engineer and shall not be reproduced or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the Engineer.

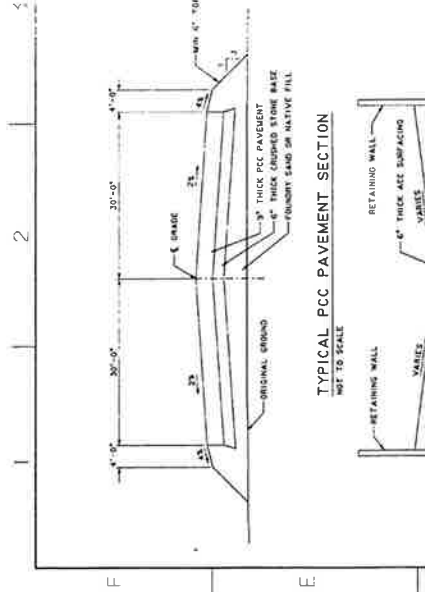




TYPICAL ACC PAVEING SECTION  
NOT TO SCALE



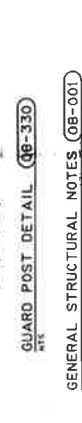
TYPICAL PCC PAVEMENT SECTION  
NOT TO SCALE



TYPICAL WALKWAY SECTION  
NOT TO SCALE



RETAINING WALL DETAIL  
NOT TO SCALE



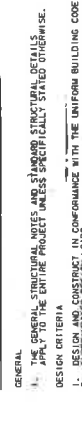
PEDESTAL POLE BASE DETAIL  
NOT TO SCALE



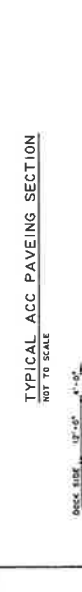
GUARD POST DETAIL (CB-330)  
NOT TO SCALE



VERTICAL CONTROL JOINT DETAIL  
PLAN VIEW



90° CORNER-2 LAYERS



I-INTERSECTION-2 LAYERS

BAR SIZE	EMBEDMENT LENGTH (INCHES)		COMPRESSION LAP LENGTH
	LAPPED SPlice	OTHERS	
#3	18	18	12
#4	24	18	15
#5	30	23	18
#6	36	29	22
#7	42	33	26
#8	48	44	34
#9	54	56	43
#10	60	70	54
#11	66	84	66
#12	72	96	81

MINIMUM REINFORCEMENT BAR SPlice AND ANCHORAGE LENGTH (INCHES)

NOTES:  
 1. TOP BARS ARE HORIZONTAL BARS SO PLACED THAT MORE THAN 1/2" OF CONCRETE IS CAST IN THE MEMBER BELOW.  
 2. FOR BARS SPACED LESS THAN 8 BARS DIAMETERS S.C.  
 3. WHEN LAPPING TWO DIFFERENT SIZE BARS USE THE LAP LENGTH OF THE SMALLER BAR UNLESS NOTED OTHERWISE.  
 4. EMBEDMENT FOR STRAIGHT CORNERS WHERE END HOOK IS NOT SHOWN, UNLESS OTHERWISE NOTED.  
 5. ONLY FOR TOP LAP LENGTH FOR VERTICAL COLUMN BARS.  
 6. BARS SHALL BE A MINIMUM 1/2" FROM FACE UNLESS OTHERWISE NOTED.  
 7. BY JOBS.

GENERAL STRUCTURAL NOTES (CB-001)  
 1. THE GENERAL STRUCTURAL NOTES AND STANDARD STRUCTURAL DETAILS APPLY TO THE ENTIRE PROJECT UNLESS SPECIFICALLY STATED OTHERWISE.  
 2. DESIGN AND CONSTRUCT IN CONFORMANCE WITH THE UNIFORM BUILDING CODE, 1991.  
 3. ALL WALLS SHALL BE CONSTRUCTED WITH 4" MINIMUM THICKNESS UNLESS OTHERWISE NOTED.  
 4. ALL WALLS SHALL BE CONSTRUCTED WITH 2" MINIMUM THICKNESS UNLESS OTHERWISE NOTED.  
 5. ALL WALLS SHALL BE CONSTRUCTED WITH 2" MINIMUM THICKNESS UNLESS OTHERWISE NOTED.  
 6. ALL WALLS SHALL BE CONSTRUCTED WITH 2" MINIMUM THICKNESS UNLESS OTHERWISE NOTED.  
 7. ALL WALLS SHALL BE CONSTRUCTED WITH 2" MINIMUM THICKNESS UNLESS OTHERWISE NOTED.  
 8. ALL WALLS SHALL BE CONSTRUCTED WITH 2" MINIMUM THICKNESS UNLESS OTHERWISE NOTED.  
 9. ALL WALLS SHALL BE CONSTRUCTED WITH 2" MINIMUM THICKNESS UNLESS OTHERWISE NOTED.  
 10. ALL WALLS SHALL BE CONSTRUCTED WITH 2" MINIMUM THICKNESS UNLESS OTHERWISE NOTED.  
 11. ALL WALLS SHALL BE CONSTRUCTED WITH 2" MINIMUM THICKNESS UNLESS OTHERWISE NOTED.

FOUNDATIONS  
 1. ALL FOUNDATIONS SHALL BE CONSTRUCTED WITH 4" MINIMUM THICKNESS UNLESS OTHERWISE NOTED.  
 2. ALL FOUNDATIONS SHALL BE CONSTRUCTED WITH 4" MINIMUM THICKNESS UNLESS OTHERWISE NOTED.  
 3. ALL FOUNDATIONS SHALL BE CONSTRUCTED WITH 4" MINIMUM THICKNESS UNLESS OTHERWISE NOTED.  
 4. ALL FOUNDATIONS SHALL BE CONSTRUCTED WITH 4" MINIMUM THICKNESS UNLESS OTHERWISE NOTED.  
 5. ALL FOUNDATIONS SHALL BE CONSTRUCTED WITH 4" MINIMUM THICKNESS UNLESS OTHERWISE NOTED.  
 6. ALL FOUNDATIONS SHALL BE CONSTRUCTED WITH 4" MINIMUM THICKNESS UNLESS OTHERWISE NOTED.  
 7. ALL FOUNDATIONS SHALL BE CONSTRUCTED WITH 4" MINIMUM THICKNESS UNLESS OTHERWISE NOTED.  
 8. ALL FOUNDATIONS SHALL BE CONSTRUCTED WITH 4" MINIMUM THICKNESS UNLESS OTHERWISE NOTED.  
 9. ALL FOUNDATIONS SHALL BE CONSTRUCTED WITH 4" MINIMUM THICKNESS UNLESS OTHERWISE NOTED.  
 10. ALL FOUNDATIONS SHALL BE CONSTRUCTED WITH 4" MINIMUM THICKNESS UNLESS OTHERWISE NOTED.  
 11. ALL FOUNDATIONS SHALL BE CONSTRUCTED WITH 4" MINIMUM THICKNESS UNLESS OTHERWISE NOTED.

MISCELLANEOUS  
 1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 3. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 5. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 6. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 7. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 8. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 9. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 10. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 11. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.

MISCELLANEOUS  
 1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 3. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 5. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 6. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 7. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 8. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 9. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 10. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 11. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.

MISCELLANEOUS  
 1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 3. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 5. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 6. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 7. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 8. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 9. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 10. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.  
 11. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND DIMENSIONS BEFORE STARTING.

CON 12-1-1  
 Doc # 8275

NAME	DATE
DESIGNER	4-15-95
CHECKED	4-15-95
APPROVED	4-15-95
DATE	4-15-95
BY	
PROJECT NUMBER	43553-807-002
PROJECT NAME	12-1-1
PROJECT NUMBER	43553-807-002
PROJECT NAME	12-1-1

RUST ENVIRONMENT & INFRASTRUCTURE  
 PROJECT NUMBER: 43553-807-002  
 PROJECT NAME: 12-1-1  
 PROJECT NUMBER: 43553-807-002  
 PROJECT NAME: 12-1-1  
 PROJECT NUMBER: 43553-807-002  
 PROJECT NAME: 12-1-1



**Attachment B**  
**Vehicle Scale Specifications**

**PART 1 GENERAL**

1.01 SUMMARY. This Section Includes Submittals, Quality Assurance, Manufacturer's Scale weighbridge, Scale instrumentation, electronic load cells, scale instrumentation function and accessories, Coating, Preparation, Scale Installation, Instrumentation Installation, Field Quality Control, Lightning Protection Specifications, and Warranty Requirements.

1.02 SUBMITTALS

- A. Shop drawings, specifications, catalog data, and literature.
  - 1. Manufacturer's detailed construction drawings of scale, including but not limited to:
    - a. Model number, capacity, and size of scale.
    - b. Material specifications are for materials used in the foundation and weighbridge.
  - 2. Scale foundation drawings to include:
    - a. Type and strength of concrete.
    - b. Reinforcing grade, size, and arrangement.
    - c. Dimensions of walls, floors, anchor bolt locations, and cast-in-steel requirements.
  - 3. Instrumentation:
    - a. Wiring diagrams and locations.
    - b. Catalog cut or specifications for instrumentation
- B. Operations and Maintenance Data (O&M). Provide operations & maintenance instructions and parts list.

1.03 QUALITY ASSURANCE. Scale installation and foundation construction shall comply with or exceed requirements of Iowa Code 215, Implemented by Iowa Administrative Code Chapter 85.

**PART 2 PRODUCTS**

2.01 MANUFACTURERS: Cardinal Scale Company, Mettler – Toledo, B-tek, Rice Lake, or equal.

2.02 SCALE WEIGHBRIDGE – State of Iowa Legal for Trade Scale for Commercial Vehicles current maximum weight of 80,000 lbs. With a 70-ft long, 14-ft wide concrete platform.

2.03 SCALE INSTRUMENTATION INTERFACE

- A. CONTRACTOR shall integrate OWNERS WasteWORKS system to the new scale.
  - 1. WasteWORKS requires continuous output from the scale indicators.
  - 2. WasteWORKS has an NTEP Certificate #94-055.
  - 3. WasteWORKS trap for the motion character that indicators send and will not allow weight to be accepted while the scale is in motion.
  - 4. CONTRACTOR shall provide a data cable from the scale indicator. RS232 cable with DB9 female connection. The port shall be in continuous output mode and shall include gross weight, carriage return, and line feed. The CONTRACTOR shall provide the ports baud, parity, data bits, and stop bits.
- B. Electronic Load Cell:
  - 1. Each load cell shall have a minimum capacity of 22.5 metric tons (50,000 pounds).
  - 2. The scale shall have a COC with NTEP Approval, and Load cells shall be certified by NTEP and meet the specifications as set forth by NIST H-44 for Class IIIIL devices. The manufacturer shall provide a Certificate of Conformance to these standards upon request.
- C. Scale Instrumentation Function and Accessories:
  - 1. Recording capacity equal to scale capacity and readout in 20 lb gradations.
  - 2. Indicating Numerals: LED display with minimum of 5/8 in. high.
  - 3. The front panel features Metric conversion, print command, motion, center of zero, overcapacity indicators, gross, tare, and net indicators, a gross or tare weight input keyboard, and automatic zero.
  - 4. Capable of calculating net weights automatically.

- 5. Completely shielded from radio interference.
  - 6. Table mounted.
  - 7. Interface with ticket printer.
- 2.04 COATING. The weighbridge shall be shot blasted to a minimum SSPC-SP6 specification before painting. All exterior surfaces of the scale shall have a two-part epoxy finish, providing a total Dry Film Thickness of 5-7 mils. The finish shall be force-cured to reduce the risk of contamination and ensure the durability of the surface Structural Steel Primer with the color as selected by OWNER.
- 2.05 GUIDE/BUMP/SIDE RAILS. Provide rails per scale manufacturer's recommendations for landfill scale operations.

### PART 3 EXECUTION

#### 3.01 PREPARATION

- A. Apply for and obtain state permit as required under Iowa Code 215, Implemented by Iowa Administrative Code Chapter 85.
- B. All blueprints of scales to be installed in the State of Iowa must first be approved by the Weights & Measures Bureau. Blueprints must include footing and foundation drawings with approval at least thirty-(30) days prior to construction and will be submitted to the State of Iowa, Weights & Measures Bureau per 215.14, Code of Iowa.

#### 3.02 SCALE INSTALLATION

- A. Place concrete and reinforcement in accordance with the manufacturer's specifications.
- B. Scale foundation construction shall comply with approved submittals.
- C. Place bumper plates and fulcrums as designated on the manufacturer's drawings. Field bending, welding, or splicing is not permitted.
- D. Mount the bumper bolt bracket such that the maximum distance between the striker plate on the pit wall and the point where the bumper bolt secures to the bracket is 3 in—cast the striker plate into the pit wall.

#### 3.03 INSTRUMENTATION INSTALLATION

- A. Install interconnecting wiring between the scale and instrumentation in the existing scale house and between the scale and the remote displays provided by the owner.
- B. Install interconnecting wiring between the intercom device located in the existing scale house and the mounted speaker.
- C. Provide mounting poles and install existing Remote Displays (provided by the OWNER).

#### 3.04 FIELD QUALITY CONTROL. Test vehicle scale in accordance with Iowa Code 215, Implemented by Iowa Administrative Code Chapter 85.

#### 1.05 LIGHTNING PROTECTION SPECIFICATIONS

- A. A comprehensive lightning protection system shall be provided with the scale.
- B. The system shall not require complicated wiring or devices to provide this protection.
- C. Major scale components, including load cells, scale instrument and printer, shall be included in the lightning protection system.
- D. Grounding of all scale components, including load cells, scale instrument, printer and accessories, shall be to one common point. Systems with multiple ground points are not acceptable.
- E. An AC line surge protector shall conveniently plug into a common electrical outlet and have receptacles for the scale instrument, ticket printer and other scale accessories.
- F. Each AC line surge protector required shall have one isolated grounding, hospital-grade duplex receptacles, and an internal 15-amp circuit breaker. Verification of the lightning protection system performance shall be available in writing from a third-party verification laboratory upon request.
- G. The lightning protection system shall be of the same manufacturer as the scale.



3.06 WARRANTY REQUIREMENTS

- A. The scale manufacturer shall warrant the scale assembly, including all load cells, weighbridge structure, scale instruments, junction boxes, and associated cables, from failures due to a defect in manufacturing, workmanship, lightning, or surge voltages.
- B. The guarantee will warrant the product for 5 years from the date of installation or 62 months from the date of shipment to the OWNER, whichever occurs first. The CONTRACTOR shall promptly correct any such defect appearing within the warranty period.
- C. The guarantee shall support 100% coverage of repair parts, labor, travel time, and mileage from the closest service location or product replacement under warranty.
- D. A regular maintenance service program with the manufacturer and/or its local authorized representative is required. The level of service, to be determined at the time of sale, will depend upon the site and usage conditions but should comply with the guidelines set forth by the manufacturer, local regulations, and NIST Handbook 44.

\*\*\* END OF SECTION \*\*\*

## Attachment C

### **INSURANCE SCHEDULE B - CONTRACTORS**

**(General, Artisan or Trade Contractors, Subcontractors or Sub Subcontractors)**

1. Contractor shall furnish a signed certificate of insurance to the Black Hawk County Solid Waste Management Commission (Commission) representative responsible for the contract for the coverage required in Exhibit I prior to commencing work. Contractors presenting annual certificates shall present a certificate at the end of each project with the final billing. Each certificate shall be prepared on the most current ACORD form approved by the Iowa Department of Insurance or an equivalent approved by the Commission's Administrator. The certificate must clearly indicate the project name or project description for which it is being provided Eg: Project name: Scale House Modification and Scale Replacement Project
2. All policies of insurance required hereunder shall be with an insurer authorized to do business in Iowa and all insurers shall have a rating of A or better in the current A.M. Best's Rating Guide.
3. Each Certificate required shall be furnished to the Administrator of the Commission.
4. Failure to provide the coverages described in this Insurance Schedule shall not be deemed a waiver of these requirements by the Commission. Failure to obtain or maintain the required insurance shall be considered a material breach of this contract.
5. Contractor shall require all subcontractors and sub-subcontractors to obtain and maintain during the performance of work insurance for the coverages described in this Insurance Schedule and shall obtain certificates of insurance from all such subcontractors and sub-subcontractors. Contractor agrees that it shall be liable for the failure of a subcontractor and sub-subcontractor to obtain and maintain such coverage. The Commission may request a copy of such certificates from the Contractor.
6. All required endorsements to various policies shall be attached to the certificate of insurance.
7. Whenever an ISO form is referenced the current edition must be provided.
8. Contractor shall be required to carry the minimum coverage/limit, or greater if required by law or other legal agreement, in Exhibit I - Insurance Schedule B. If the contractor's limits of liability are higher than the required minimum limit then the contractor's limits shall be this agreement's required limits.

## INSURANCE SCHEDULE B (continued)

### EXHIBIT I

**A) COMMERCIAL GENERAL LIABILITY**

General Aggregate Limit	\$2,000,000
Products-Completed Operations Aggregate Limit	\$2,000,000
Personal and Advertising Injury Limit	\$1,000,000
Each Occurrence	\$1,000,000
Fire Damage Limit (any one occurrence)	\$50,000
Medical Payments	\$5,000

- 1) Coverage shall be written on an occurrence, not claims made, form. The general liability coverage shall be written in accord with ISO form CG0001 or business owners form BP0002. All deviations from the standard ISO commercial general liability form CG 0001 or business owners form BP 0002 shall be clearly identified.
- 2) Include ISO endorsement form CG 25 04 "Designated Location(s) General Aggregate Limit" or CG 25 03 "Designated Construction Project(s) General Aggregate Limit" as appropriate.
- 3) Include endorsement indicating that coverage is primary and non-contributory.
- 4) Include Preservation of Governmental Immunities Endorsement. (Sample attached).
- 5) Include additional insured endorsement for:  
Black Hawk County Solid Waste Management Commission, including all its elected and appointed officials, all its employees and Waste Tech, Inc as Additional Insured when required in a written contract or agreement with respects to the General Liability policy. Use ISO form CG 20 10 (Ongoing operations) or its equivalent. Waiver of subrogation applies to the General Liability Policy per form CG2404.
- 6) The additional insured endorsement shall include completed operations under ISO form CG 2037 during the project term and for a period of two years after the completion of the project.
- 7) Policy shall include Waiver of Right to Recover from Others endorsement.
- 8) Provide to Commission a 30-day notice of coverage cancelation to Administrator of the Commission.

**B) WORKERS' COMPENSATION & EMPLOYERS LIABILITY**

Statutory Benefits covering all employees injured on the job by accident or disease as prescribed by Iowa Code Chapter 85.

Coverage A	Statutory—State of Iowa	
Coverage B	Employers Liability	
	Each Accident	\$100,000
	Each Employee-Disease	\$100,000
	Policy Limit-Disease	\$500,000

Policy shall include Waiver of Right to Recover from Others endorsement.

Coverage B limits shall be greater if required by the umbrella/excess insurer.

Nonelection of Workers' Compensation or Employers' Liability Coverage under Iowa Code sec. 87.22

yes  form attached

**C) AUTOMOBILE LIABILITY**

Combined Single Limit	\$1,000,000
-----------------------	-------------

**D) UMBRELLA/EXCESS LIABILITY** \$1,000,000

## PRESERVATION OF GOVERNMENTAL IMMUNITIES ENDORSEMENT

1. Nonwaiver of Governmental Immunity. The insurer expressly agrees and states that the purchase of this policy and the including of the Black Hawk County Solid Waste Management Commission as an Additional Insured does not waive any of the defenses of governmental immunity available to the Black Hawk County Solid Waste Management Commission, Iowa under Code of Iowa Section 670.4 as it is now exists and as it may be amended from time to time.
2. Claims Coverage. The insurer further agrees that this policy of insurance shall cover only those claims not subject to the defense of governmental immunity under the Code of Iowa Section 670.4 as it now exists and as it may be amended from time to time. Those claims not subject to Code of Iowa Section 670.4 shall be covered by the terms and conditions of this insurance policy.
3. Assertion of Government Immunity. The Black Hawk County Solid Waste Management Commission shall be responsible for asserting any defense of governmental immunity, and may do so at any time and shall do so upon the timely written request of the insurer.
4. Non-Denial of Coverage. The insurer shall not deny coverage under this policy and the insurer shall not deny any of the rights and benefits accruing to the Black Hawk County Solid Waste Management Commission under this policy for reasons of governmental immunity unless and until a court of competent jurisdiction has ruled in favor of the defense(s) of governmental immunity asserted by the Black Hawk County Solid Waste Management Commission.

No Other Change in Policy. The above preservation of governmental immunities shall not otherwise change or alter the coverage available under the policy.

# SPECIMEN

## Attachment D

### Proposal Form

The bidder hereby certifies that they are the only person or persons interested in this proposal as principals; that an examination has been made of the plans, specifications, and contract form, including the special provision contained herein, and of the site of the work, and the bidder understands that the quantities of work shown herein are approximate only and are subject to increase or decrease; and further understand that all quantities of work, whether increased or decreased, are to be performed at the unit price as stipulated herein; the bidder proposes to furnish all necessary machinery, equipment, tools, labor and other means of Construction, and to furnish all materials specified in the manner and time prescribed and to do the work at the prices herein set out.

Accompanying this proposal in a separate envelope is a cashier's or certified check payable to the Black Hawk County Solid Waste Management Commission, drawn on a bank in Iowa or a bank chartered under the laws of the United States, in the amount of ten percent (10%) of the bid submitted; or a bid bond in the penal sum of ten percent (10%) of the bid submitted executed by the bidder and an acceptable Corporate Surety. It is understood that this proposal guarantee will be retained in the event the formal contract or bond is not executed if the award is made to the undersigned.

The bidder further agrees to execute a formal contract and bond, if required by the contract documents, within seven (7) days of the award of the contract by the Commission and that they will commence work on or about ten (10) days after the date of the contract, and will complete the work within the specified contract period or pay the liquidated damages stipulated in the contract documents.

**Bidder acknowledges receipt of the following addendums:**

Date	Addendum No.
_____	_____
_____	_____
_____	_____
_____	_____

**The bidder shall provide a price for all items with an alternative bid. Otherwise, the Bid will be REJECTED.** The following are fees proposed by the Contractor for the individual work areas; these items may be adjusted during the Project as the design is completed with the overall Project price remaining under the Proposed Bid total. The bidder will complete the work for the following prices:

**Base Bid**

Item No.	Design Services and Scale Replacement Scope Fees	Total Amount
1.1	Design Services and Bid Services	\$
1.2	Construction Management Services	\$
1.3	Scale Removal, including Foundation Demolition and Catwalk Removal	\$
1.4	Purchase, Permitting and Installation of New Scale	\$
1.5	Concrete Foundation and Approach Modification	\$
1.6	Installation of Bollards or Fall Protection Guards	\$
1.7	Electrical Relocation (Lights, Gate Opener, Etc.)	\$
1.8	Electronics, Wiring, and System Demonstration	\$
1.9	Other (Identify):	\$
<b>BASE BID SUB-TOTAL</b>		<b>\$</b>

**Bid Package No. 1 – Scale Remodel (Utilizing Existing Structure)**

Item No.	Scale House Remodel Scope Fees	Total Amount
2.1	Demolition	\$
2.2	Structural Steel or Framing	\$
2.3	Roofing System Modification	\$
2.4	Electrical and Communications Work	\$
2.5	Interior Finishing	\$
2.6	Exterior Finish (Windows, Siding, Etc.)	\$
2.7	Other (Identify):	\$
<b>REMODEL BID SUB-TOTAL</b>		\$

**Bid Package No. 2 – Scale Addition (Demolition of the existing vestibule and construction an addition)**

Item No.	Design Services and Scale Replacement Scope Fees	Total Amount
3.1	Demolition	\$
3.2	Foundation and Concrete Work	\$
3.3	Structural Steel or Framing	\$
3.4	Roofing System Modification	\$
3.5	Electrical and Communications Work	\$
3.6	Interior Finishing	\$
3.7	Exterior Finishing	\$
3.8	Other (Identify):	\$
<b>SCALE ADDITION BID SUB-TOTAL</b>		\$

Project Total Proposed Cost:

Scale House Remodel and Scale Replacement  
(Base plus bid package #1) \$ \_\_\_\_\_

Scale House Addition and Scale Replacement  
(Base plus bid package #2) \$ \_\_\_\_\_

Business Name of Bidder: \_\_\_\_\_

Bidder's Official Address: \_\_\_\_\_

City: \_\_\_\_\_, State: \_\_\_\_\_ Zip: \_\_\_\_\_

\_\_\_\_\_  
Signed by

\_\_\_\_\_  
Print Name

Title: \_\_\_\_\_

Date: \_\_\_\_\_, 2025

**BID BOND**

KNOWN ALL MEN BY THESE PRESENTS, that we \_\_\_\_\_ as Principal (Contractor), and \_\_\_\_\_, as Surety, are held and firmly bound unto the Black Hawk County Solid Waste Management Commission, in the penal sum of \_\_\_\_\_ in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents. The condition of this obligation is such that whereas the Principal has submitted the accompanying bid, dated \_\_\_\_\_ day of \_\_\_\_\_, 2025, for the Landfill Scale House Remodel and Scale Replacement Project.

NOW, THEREFORE, if the Principal shall not withdraw said bid within the period specified therein during the opening of same, or if no period specified, within thirty (30) days after said opening, and shall within the period specified therefore, if no period be specified, within seven (7) days after the prescribed forms are presented to him for signature, enter into a written contract with the municipality, in accordance with the bid as accepted, and give bond with good and sufficient surety or sureties, as may be required for the faithful performance and proper fulfillment of such contract, then the above obligation shall be void and of no effect, otherwise to remain in full force and virtue.

By virtue of statutory authority, the full amount of this bid bond shall be forfeited to the municipality in liquidations of damages sustained in the event that the aforementioned described bidder, Principal, fails to execute the contract and provide the bond as provided in the specifications or by law.

IN WITNESS WHEREOF, the above bounden parties have executed this instrument under their several seals this \_\_\_\_\_ day of \_\_\_\_\_, 2025, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

**PRINCIPAL**

**SURETY**

\_\_\_\_\_  
Contractor  
  
By: \_\_\_\_\_  
Signature  
  
\_\_\_\_\_  
Title  
  
\_\_\_\_\_  
Date

\_\_\_\_\_  
Surety Company  
  
By: \_\_\_\_\_  
Signature  
  
\_\_\_\_\_  
Title  
  
\_\_\_\_\_  
Date

**BLACK HAWK COUNTY SOLID WASTE MANAGEMENT COMMISSION  
IMPROVEMENT CONTRACT**

THIS IMPROVEMENT CONTRACT (the Contract), made in triplicate, dated for reference purposes on the \_\_\_\_\_ day of January 2025, between the Black Hawk County Solid Waste Commission (Owner) and \_\_\_\_\_ (Contractor)

For and in consideration of the mutual covenants herein contained, the parties hereto agree as follows:

**CONTRACTOR AGREES:**

1. To furnish all material and equipment and to perform all labor necessary for the Landfill Scale House Remodel and Scale Replacement Project (the Project). The Project shall be made in strict accordance with the requirements of the laws of the State of Iowa and in accordance with the Contract Document shall of which provisions and documents are each and all hereby referred to and made a part of this Contract just as much as if the detail statements thereof were repeated herein.
2. Contract Documents shall mean and include the following: All ordinances and resolutions heretofore adopted by Owner having to do with the Project; the Notice to Bidders; the Contractor's Proposal; and the Plans, Specifications, and General Requirements as adopted by for the Project.
3. All materials used by the Contractor in the Project shall be the best of their several kinds and shall be put in place to the satisfaction of the Owner.
4. The Contractor shall remove any materials rejected by the Owner as defective or improper, or any of said work condemned as unsuitable or defective, and the same shall be replaced or done anew to the satisfaction of the Owner at the cost and expense of the Contractor.
5. Five percent (5%) of the Contract price shall be retained by the Owner for a period of thirty (30) days after final completion and acceptance of the Project by Owner to pay any claim that may be filed within said time for labor and materials done and furnished in connection with the performance of this Contract and for a longer period if such claims are not adjusted within that time, as provided in Iowa Code Chapter 573. The Owner shall also retain additional sums to protect itself against any claim that has been filed against it for damages to persons or property arising through the prosecution of the work and such sums shall be held by the Owner until such claims have been settled, adjudicated or otherwise disposed of.
6. The Contractor has read and understands the specifications including General Requirements and has examined and understands the plans herein referred to and agrees not to plead misunderstanding or deception because of estimates of quantity, character, location or other conditions surrounding the same.
7. In addition to the guarantee provided for in the specifications, the Contractor shall also make good any other defect in any part of the Project due to improper construction notwithstanding the fact that said Project may have been accepted and fully paid for by the Owner, and the Contractor's bond shall be security therefore.
8. To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Owner from and against all claims, damages, losses and expenses, including but not limited to attorney fees, arising out of or resulting from performance of the Contract, provided that such claim, damages, loss or expense is attributable to bodily injury, sickness, disease or death, or injury to or destruction of property (other than the Project itself) including loss of use resulting there from, but only to the extent caused in whole or in part by negligent acts or omissions of the Contractor, the Contractor's subcontractor, or anyone directly or indirectly employed by the Contractor or the Contractor's subcontractor or anyone for whose acts the Contractor or the Contractor's subcontractor may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder.

**THE BLACK HAWK COUNTY SOLID WASTE MANAGEMENT COMMISSION AGREES:**

Upon the completion of the Contract, and the acceptance of the Project by Owner agrees to pay the Contractor as full compensation for the complete performance of this Contract, the amount determined for the total number of units completed at the unit prices stated in the Contractor's Proposal and less any liquidated damages



provided for in the Contract Documents. The number of units stated in the plans and specifications is approximate only, and the work covered by the Contract shall be the final payment.

CONTRACT AMOUNT \$ \_\_\_\_\_ (Insert Contract Amount)

**FURTHER CONDITIONS**

The Contractor hereby represents and guarantees that it has not, nor has any other person for or in its behalf, directly or indirectly, entered into any arrangement or agreement with any other bidder or with any public officer whereby it has paid or is to pay any other bidder or public officer any sum of money or anything of value whatever in order to obtain this Contract. It has not, nor has another person for or in its behalf directly or indirectly, entered into any agreement or arrangement with any other person, firm, corporation or association which tends to or does lessen or destroy free competition in the letting of this Contract and agrees that in case it hereafter be established that such representations or guarantees, or any of them are false, it will forfeit and pay not less than ten percent (10%) of the Contract price but in no event be less than \$ \_\_\_\_\_ ( \_\_\_\_\_ Dollars) as liquidated damages to Owner.

The surety on the bond furnished for this Contract shall, in addition to all other provisions, be obligated to the extent provided for by Iowa Code § 573.6, relating to this Contract, which provisions apply to said bond.

The Contractor agrees, and its bond shall be surety, that it will keep and maintain the Project in good repair for two years after the Commission accepts it.

The Contractor agrees, and its bond shall be surety, that it will keep and maintain the Project in good repair for two years after the Commission accepts it.

**BLACK HAWK COUNTY SOLID WASTE  
MANAGEMENT COMMISSION**

**CONTRACTOR**

By: \_\_\_\_\_  
Brian Heath, Chairperson

By: \_\_\_\_\_

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

Attest: \_\_\_\_\_  
John A. Foster, Administrator

Attest: \_\_\_\_\_

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

## PERFORMANCE, PAYMENT AND MAINTENANCE BOND

KNOWN ALL MEN BY THESE PRESENTS: That (Insert Contractor's Name) as Principal (Contractor) and \_\_\_\_\_ as Surety are held firmly bound unto the Black Hawk County Solid Waste Management Commission (Owner), in the penal sum of \$ \_\_\_\_\_ (Insert Contract Amount) the same being 100% of the total price of the Contract for the Project herein referred to, lawful money of the United States of America, well and truly to be paid to said Owner, and to all other parties who, under the provisions of the laws of Iowa, are intended to be protected and secured hereby for which payment we bind ourselves, our heirs, executors, successors and assigns, jointly and severally by these presents.

Dated at Waterloo, Iowa, this \_\_\_\_\_ day of \_\_\_\_\_, 2025, and duly attested and sealed.

WHEREAS, the said Contractor by a Contract dated (\_\_\_\_\_, 2025), incorporated herein by reference, has agreed with said Owner to perform all labor and furnish all materials required to be performed and furnished for the Landfill Scale House Remodel and Scale Replacement Project (the Project) according to the Contract and Construction Documents prepared therefore.

It is expressly understood and agreed by the Contractor and Surety bond that the following provisions are a part of this Bond and are binding upon said Contractor and Surety, to-wit:

1. **PERFORMANCE BOND:** The Contractor shall well and faithfully observe, perform, fulfill and abide by each and every covenant, condition and part of said Contract and Contract Documents, by reference made a part hereof, for the Project, and shall indemnify and save harmless the Owner from all outlay and expense incurred by the Owner by reason of the Contractor's default of failure to perform as required. The Contractor shall also be responsible for the default or failure to perform as required under the Contract and Contract Documents by all its subcontractors, suppliers, agents, or employees furnishing materials or providing labor in the performance of the Contract.
2. **PAYMENT BOND:** The Contractor and the Surety shall pay all just claims submitted by persons, firms, subcontractors, and corporations furnishing materials for or performing labor in the performance of the Contract on account of which this Bond is given, including but not limited to claims for all amounts due for labor, materials, lubricants, oil, gasoline, repairs on machinery, equipment and tools, consumed or used by the Contractor or any subcontractor, wherein the same are not satisfied out of the portion of the contract price which the Owner is required to retain until completion of the improvement, but the Contractor and Surety shall not be liable to said persons, firms, or corporations unless the claims of said claimants against said portion of the Contract price shall have been established as provided by law. The Contractor and Surety hereby bind themselves to the obligations and conditions set forth in Chapter 573, Code of Iowa, which by this reference is made a part hereof as though fully set out herein.
3. **MAINTENANCE BOND:** The Contractor and the Surety hereby agree, at their own expense:
  - A. To remedy any and all defects that may develop in or result from work to be performed under the Contract within the period of two (2) year(s) from the date of acceptance of the work under the Contract by Owner, by reason of defects in workmanship or materials used in construction of said work;
  - B. To keep all work in continuous good repair; and
  - C. To pay the Owner the reasonable costs of monitoring and inspection to assure that any defects are remedied, and to repay Owner all outlay and expense incurred as a result of Contractor's and Surety's failure to remedy any defect as required by this section.

Contractor's and Surety's agreement herein made extends to defects in workmanship or materials not discovered or known to the Owner at the time such work was accepted.

NOW, THEREFORE, the condition of this obligation is such that if the said Contractor shall perform all of the work contemplated by the Contract in a workmanlike manner and in strict compliance with the plans and specifications, and will pay all claims for labor and materials used in connection with said Project, to indemnify the said Owner for all damages, costs and expense incurred by reason of damages to persons or property arising through the performance of said Contract, and will reimburse the Owner for any outlay of money which it may be required to make in order to complete said Contract according to the Construction Documents and will maintain in good repair said Project for the period specified in the Contract where this bond is obligated for maintenance, and will faithfully comply with all of the provisions of Section 573 of the Code of Iowa, then this obligation shall be null and void, otherwise it shall remain in full force and effect.

All the conditions of this bond must be fully complied with before the Contractor or the Surety will be released.

The Contract, Contractor's Proposal, and Construction Documents shall be considered as a part of this Bond just as if their terms were repeated herein.

Dated at Waterloo, Iowa this \_\_\_\_\_ day of January, 2025.

**Owner**

By: \_\_\_\_\_  
Chairman

**PRINCIPAL**

\_\_\_\_\_  
Contractor

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

\_\_\_\_\_  
Title

**SURETY**

\_\_\_\_\_  
Surety Company

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

\_\_\_\_\_  
Title

\_\_\_\_\_  
City, State, Zip Code

\_\_\_\_\_  
Telephone

\_\_\_\_\_  
Attorney In Fact

