



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

September 7, 2005

SUBJECT: FAI Route 94/90
Project IM-094-3(397)055
Section (1818,ETC,2324.6-1P)R-8
Cook County
Contract No. 62300
Item No. 1X, October 7, 2005 Letting
Addendum A

NOTICE TO PROSPECTIVE BIDDERS:

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

1. Revised pages iv of the Table of Contents.
2. Revised pages 3-7 & 131 of the Special Provisions.
3. Added pages 218-234 to the Special Provisions.
4. Revised entire Schedule of Prices.
5. Revised sheets 3-12, 14-30, 46-47, 49, 53-57, 63-65, 77, 84, 90, 93-98, 104, 109, 115, 119-120, 127, 133-136, 139, 144, 145, 147, 151, 152, 154, 155, 186, 188-190, 192-196, 200, 202, 215-219, 226, 235, 236, 243, 245, 247, 248, 255-257, 266, 272, 279-281, 284, 287, 292, 293-295, 299-304, 318A, 356, 368-384, 433, 437, 439, 440, 453, 457, 463-505, 518-522, 524-547, 550, 551, 553, 555 and 556 of the Plans.
6. Added sheets 22A, 22B, 98A, 98B, 285A, 292A and 292B of the Plans.

Prime contractors must utilize the enclosed material when preparing their bid and must include any Schedule of Prices changes in their bidding proposal.

Bidders using computer-generated bids are cautioned to reflect any and all Schedule of Prices changes, if involved, into their computer programs.

Very truly yours,

Michael L. Hine
Engineer of Design
and Environment

A handwritten signature in black ink, appearing to read 'Ted B. Walschleger' followed by 'P.E.'.

By: Ted B. Walschleger, P. E.
Engineer of Project Management

cc: Diane O'Keefe, Region 1, District 1; N. R. Stoner; Roger Driskell;
R. E. Anderson; Estimates; Design & Environment File

TK/cab

PREFORMED RECYCLED RUBBER JOINT FILLER (BDE)..... 160
 RAP FOR USE IN BITUMINOUS CONCRETE MIXTURES (BDE)..... 161
 SEEDING AND SODDING (BDE)..... 164
 SELF-CONSOLIDATING CONCRETE FOR PRECAST PRODUCTS (BDE)..... 166
 SHOULDER STABILIZATION AT GUARDRAIL (BDE)..... 168
 STABILIZED SUBBASE AND BITUMINOUS SHOULDERS SUPERPAVE (BDE)..... 169
 SUBCONTRACTOR MOBILIZATION PAYMENTS (BDE) 174
 SUBGRADE PREPARATION (BDE) 175
 SUPERPAVE BITUMINOUS CONCRETE MIXTURES (BDE)..... 175
 SURFACE TESTING OF PAVEMENTS (BDE) 181
 TEMPORARY CONCRETE BARRIER (BDE) 188
 TRAFFIC BARRIER TERMINALS (BDE) 190
 TRAFFIC CONTROL DEFICIENCY DEDUCTION (BDE) 191
 TRUCK BED RELEASE AGENT (BDE) 191
 VARIABLY SPACED TINING (BDE)..... 192
 WEIGHT CONTROL DEFICIENCY DEDUCTION..... 192
 WORK ZONE PUBLIC INFORMATION SIGNS (BDE) 194
 WORK ZONE SPEED LIMIT SIGNS (BDE) 194
 WORK ZONE TRAFFIC CONTROL DEVICES (BDE) 195
 STEEL COST ADJUSTMENT (BDE)..... 196
 STORM WATER POLLUTION PREVENTION PLAN..... 201
 MAIN DRAIN VIDEO TAPES..... 218
 NON-SPECIAL WASTE WORKING CONDITIONS..... 218
 RECLAIMED GRANULAR MATERIAL 219
 PROGRESS SCHEDULE 220
 DRILLED SOLDIER PILE RETAINING WALL..... 225
 PAYROLLS AND PAYROLL RECORDS (BDE) 231
 POROUS GRANULAR EMBANKMENT, SUBGRADE..... 233

Revised 9/7/05

MAINTENANCE OF ROADWAYS

Effective: September 30, 1985

Revised: November 1, 1996

Beginning on the date that work begins on this project, the Contractor shall assume responsibility for normal maintenance of all existing roadways within the limits of the improvement. This normal maintenance shall include all repair work deemed necessary by the Engineer, but shall not include snow removal operations. Traffic control and protection for maintenance of roadways will be provided by the Contractor as required by the Engineer.

If items of work have not been provided in the contract, or otherwise specified for payment, such items, including the accompanying traffic control and protection required by the Engineer, will be paid for in accordance with Article 109.04 of the Standard Specifications.

STATUS OF UTILITIES TO BE ADJUSTED

Name of Utility	Type	Location	Estimated Dates for Start and Completion of Relocation or Adjustment
City of Chicago	54" Sewer	approx Sta. 2385+65	Sewer to remain in place. Contractor responsible for pipe protection during construction per plan drawings and for permanent sewer cap protection as per plan.
City of Chicago	36" Water Main	approx Sta. 2533+63 (46 th St.)	Water Main to remain in place. Contractor responsible for pipe protection during construction per plan drawings and for permanent sewer cap protection as per plan.
City of Chicago	24" Water main	Approx. Sta. 2544+12 (45 th St.)	Existing water main abandoned and new 24" water main in 42" casing pipe constructed under Contract 62692.
City of Chicago	60" sewer	Approx. Sta. 2546+63 (44 th Pl.)	Sewer to remain in place. Contractor responsible for pipe protection during construction.
City of Chicago	6-D City Electric Duct Crossing	Approx. Sta. 2589+20 (38 th St.)	This crossing does not exist per TBE.

Revised 9/7/05

Name of Utility	Type	Location	Estimated Dates for Start and Completion of Relocation or Adjustment
City of Chicago	24" water main	Approx. Sta. 2595+23 (37 th St.)	Existing water main abandoned and new 24" water main in 42" casing pipe constructed under Contract 62691.
City of Chicago	36" watermain	Approx. Sta. 2628+51 (32 nd St.)	Existing water main abandoned and new 36" water main in 54" casing pipe constructed under Contract 62691.
Chicago Transit Authority	Various	From Station 2367+00 to Station 2637+99 (project limits)	The Contractor is alerted that there are existing surface and underground facilities within the CTA operating area. These facilities may include, but are not limited to, Power Distribution Cables, Train Control Signal Cables, and Communication Service Lines. The exact location of these facilities is not known. It will be the Contractor's responsibility to obtain this information from the CTA before proceeding with any work within the CTA operating area. Extreme caution must be exercised by the Contractor when doing any excavation or other sub-surface work within the CTA operating area.
Chicago Transit Authority	6H x 4W Duct	Approx. Sta. 2555+69 (43 rd St.)	There is no anticipated conflict with this duct crossing.
People's Energy	24" Gas	approx Sta. 2372+00 (70 th St.)	There is no anticipated conflict with this gas main.

Revised 9/7/05

Name of Utility	Type	Location	Estimated Dates for Start and Completion of Relocation or Adjustment
People's Energy	16" Gas Main	approx. Sta. 2421+50 (63 rd St.)	Per People Energy this gas main crossing has been purged and abandoned, People Energy has tested gas main and found no contamination. Contractor shall remove the existing pipe if it is in conflict.
People's Energy	20" Gas Main	approx. Sta. 2461+84 (57 th St.)	Proposed underdrains may be in conflict with this gas main. The gas main will remain in place and a note will be added to the status of utilities that underdrain profiles may have to be adjusted in the field to avoid conflict.
People's Energy	20" Gas Main	approx. Sta. 2527+17 (47 th St.)	Proposed underdrains may be in conflict with this gas main. The gas main will remain in place and a note will be added to the status of utilities that underdrain profiles may have to be adjusted in the field to avoid conflict.
People's Energy	36" Gas Main	Approx. Sta. 2629+09 (32 nd St.)	There is no anticipated conflict with this gas main crossing.
SBC	9-MCD	Approx. Sta. 2636+40 (31 st St.)	There is no anticipated conflict with this duct crossing.
SBC	48" Duct	Approx. Sta. 2596+15 (37 th St.)	There is no anticipated conflict with this duct crossing.
SBC	18-MCD (24" Duct)	Approx. Sta. 2580+40 (39 th St.)	There is no anticipated conflict with this duct crossing.
SBC	36-MCD	Approx. Sta. 2565+40 (Root St.)	SBC is in proposed excavate and place existing granular mat. Contractor must use extreme caution.

Revised 9/7/05

FAI Route 94/90 (Dan Ryan Expressway)
 31st Street to 71st Street (NB Express Lanes)
 Section (1818, ETC, 2324.6-1P)R-8
 Cook County

Name of Utility	Type	Location	Estimated Dates for Start and Completion of Relocation or Adjustment
SBC	36-MTD	Approx. Sta. 2543+20 (45 th St.)	There is no anticipated conflict with this crossing.
SBC	36-MTD	Approx. Sta. 2536+50 (46 th St.)	There is no anticipated conflict with this crossing.
SBC	18-MTD	(51 st St.)	According to SBC this crossing is about 5 feet deep and should not be in conflict for pavement structure reconstruction.
SBC	Duct	Approx. Sta. 2441+42 (60 th St.)	SBC indicated that this duct is abandoned. It is not in conflict with proposed construction.
SBC	30-MTD	Approx. Sta. 2423+01 (63 rd St.)	There is no anticipated conflict with this duct crossing.
SBC	36-MTD Crossing	Approx. Sta. 1412+87 (Wentworth Ave.)	There is no anticipated conflict with duct crossing.
SBC	18-MTD	Approx. Sta. 1378+20 (69 th St.)	There is no anticipated conflict with this duct crossing.
ComEd	15" Concrete Duct	Approx. Sta. 2634+80 (31 st St.)	Duct is currently not in use, carrying no ComEd cables. ComEd indicated that this duct does not need to be maintained, but would like to keep it if possible. This duct should remain in place if possible. No reliable elevation information on this duct is currently available.
ComEd	15" Concrete Duct	Approx. Sta 2565+63 (Root St.)	This duct is currently not in use, carrying no Com Ed cables If this crossing is in conflict, Com ED is responsible for removal. or protection Otherwise, Contractor must use extreme caution.

Revised 9/7/05

Name of Utility	Type	Location	Estimated Dates for Start and Completion of Relocation or Adjustment
ComEd	6H x 3W Duct	Approx. Sta. 2551+28 (44 th St.)	There are no anticipated conflicts with this duct crossing.
ComEd	6H x 3W Duct	Approx. Sta. 2441+83 (60 th St.)	ComEd is removing the top 3 rows (33" approx) from this duct package because of a conflict with contract 62586. No conflict is anticipated with this contract.
ComEd	Duct	Approx. Sta. 2451+58 (63 rd St.)	Top two rows of duct were removed in contract 62589 and can be removed as needed for the express lane reconstruction.
ComEd	Duct	Approx. Sta. 2379+75 (69 th St.)	There are no anticipated conflicts with this duct crossing.

The above represents the best information available to the Department and is included for the convenience of the bidder. The applicable portions of Article 105.07 and 107.31 of the Standard Specifications shall apply.

CONTRACTOR COOPERATION

The Contractor's attention is directed to the fact that other separate contracts may be under construction during the duration of this Contract and that the Contractor will be governed by Article 105.08 of the Standard Specifications.

OVERALL GOAL SET FOR THE DEPARTMENT. As a requirement of compliance with 49 CFR part 26, the Department has set an overall goal for DBE participation in its federally assisted contracts. That goal applies to all federal-aid funds the Department will expend in its federally assisted contracts for the subject reporting fiscal year. The Department is required to make a good faith effort to achieve the overall goal. The dollar amount paid to all approved DBE firms performing work called for in this contract is eligible to be credited toward fulfillment of the Department's overall goal.

CONTRACT GOAL TO BE ACHIEVED BY THE CONTRACTOR. This contract includes a specific DBE utilization goal established by the Department. The goal has been included because the Department has determined that the work of this contract has subcontracting opportunities that may be suitable for performance by DBE companies. This determination is based on an assessment of the type of work, the location of the work, and the availability of DBE companies to do a part of the work. The assessment indicates that, in the absence of unlawful discrimination, and in an arena of fair and open competition, DBE companies can be expected to perform 20.00% of the work. This percentage is set as the DBE participation goal for this contract. Consequently, in addition to the other award criteria established for this contract, the Department will award this contract to a bidder who makes a good faith effort to meet this goal of DBE participation in the performance of the work. A bidder makes a good faith effort for award consideration if either of the following is done in accordance with the procedures set forth in this Special Provision:

- (a) The bidder documents that firmly committed DBE participation has been obtained to meet the goal; or
- (b) The bidder documents that a good faith effort has been made to meet the goal, even though the effort did not succeed in obtaining enough DBE participation to meet the goal.

DBE LOCATOR REFERENCES. Bidders may consult the DBE Directory as a reference source for DBE companies certified by the Department. In addition, the Department maintains a letting and item specific DBE locator information system whereby DBE companies can register their interest in providing quotes on particular bid items advertised for letting. Information concerning DBE companies willing to quote work for particular contracts may be obtained by contacting the Department's Bureau of Small Business Enterprises at telephone number (217)785-4611, or by visiting the Department's web site at www.dot.state.il.us.

BIDDING PROCEDURES. Compliance with the bidding procedures of this Special Provision is required prior to the award of the contract and the failure of the as-read low bidder to comply will render the bid not responsive.

- (a) In order to assure the timely award of the contract, the as-read low bidder shall submit a Disadvantaged Business Utilization Plan on Department form SBE 2026 within seven (7) working days after the date of letting. To meet the seven (7) day requirement, the bidder may send the Plan by certified mail or delivery service within the seven (7) working day period. If a question arises concerning the mailing date of a Plan, the mailing date will be established by the U.S. Postal Service postmark on the original certified mail receipt from the U.S. Postal Service or the receipt issued by a delivery service. It is the

Revised 9/7/05

MAIN DRAIN VIDEO TAPES

This contract includes cleaning and repair of the main drain storm sewer which runs under the northbound median shoulder of the express lanes. Video of the entire main drain sewer was made in 2002. Copies of the video tapes within the limits of this contract are available at the IDOT District 1 Office, 201 West Center Court, Schaumburg, Illinois. To request a copy of these tapes, contact Rajendra Shah at 847-705-4555. Video tape copies of the main drain sewer will only be given to Prime Contractors who have received a written Authorization to Bid from IDOT's Central Bureau of Design & Environment.

NON-SPECIAL WASTE WORKING CONDITIONS

This work shall be according to Article 669 of the Standard Specifications for Road and Bridge Construction adopted January 1, 2002 and the following:

Qualifications. The term environmental firm shall mean an environmental firm with at least five (5) documented leaking underground storage tank (LUST) cleanups or that is prequalified in hazardous waste by the Department. Documentation includes but not limited to verifying remediation and special waste operations for sites contaminated with gasoline, diesel, or waste oil in accordance with all Federal, State, or local regulatory requirements and shall be provided to the Engineer for approval.

General. Implementation of this Special Provision will likely require the Contractor to subcontract for the execution of certain activities. It will be the Contractor's responsibility to assess the working conditions and adjust anticipated production rates accordingly.

The Contractor shall manage all contaminated materials as non-special waste as previously identified. This work shall include monitoring and potential sampling, analytical testing, and management of material contaminated by regulated substances.

The Contractor shall excavate and dispose of any soil classified as a non-special waste as directed by this project or the Engineer. Any excavation or disposal beyond what is required by this project or the Engineer shall be at the Contractor's expense. The information provided by the District and preliminary environmental site assessment (PESA) report, available through the District's Environmental Studies Unit, revealed the following locations must be continuously monitored for worker protection and soil contamination. The lateral distance is measured from centerline and the farthest distance is the offset distance or construction limit which ever is less. The Environmental Firm shall continuously monitor for worker protection and soil contamination within the following areas as classified below.

1. Station 2373+00 to Station 2385+00 (proposed NB Express I-94 CL) 0 to 60 feet RT 0 to 10 feet LT – non-special waste. Contaminants of concern sampling parameters: BETX and PNAs.
2. Station 2520+00 to Station 2536+00 (proposed NB Express I-94 CL) 0 to 80 feet RT 0 to 15 feet LT – non-special waste. Contaminants of concern sampling parameters: BETX and PNAs.

Added 9/7/05

RECLAIMED GRANULAR MATERIAL

An existing granular sub-base/subgrade of variable thickness is present beneath the Dan Ryan Expressway. The contractor shall reclaim the clean, existing aggregate material from beneath the existing pavement and reuse that material as the 12 inches layer of aggregate below the Aggregate Sub-base, Type B, 12" inches specified in the Special Provision for Extended Life Concrete Pavement (30 Year). The existing granular material is to be removed down to the bottom of the earthen subgrade or to depth of 44 inches below the proposed top of pavement, whichever depth is reached first. Any surplus materials not needed for the 12 inch layer or not meeting the gradation requirements shall be disposed of by the contractor according to Article 202.03 of Standard Specifications.

To be used in reconstruction, the reclaimed aggregate shall meet the minimum gradation requirements as follows:

<u>Sieve Size</u>	<u>Percent Passing</u>
3 inch	100
1 inch	60-100
½ inch	50-90
# 4 sieve	10-60
#16 sieve	10-50
#200 sieve	0-15

The reclaimed aggregate is to be placed below bottom of sub-base granular material type B-12" and compacted in accordance with applicable portions of Section 311 of the Standard Specifications. It may also be substituted for Porous Granular Embankment Subgrade. Use of this material will not be permitted in the Sub-base Granular Material Type B 12". The contractor is responsible to prevent contamination during excavation and handling and is responsible for proper stockpiling procedures. In areas where the granular material does not extend down to a depth of 44 inches below the proposed top of pavement, the remaining earthen subgrade should be excavated to the grades shown in the plans in accordance with the applicable portions of Section 202 of Standard Specifications.

Method of Measurement. This work will be measured for payment in their original positions, as EXCAVATE AND PLACE EXISTING GRANULAR MATERIAL and the volumes computed in cubic yards by the method of average end areas.

EARTH EXCAVATION shall be measured for payment in accordance with Section 202 of the Standard Specifications.

Basis of Payment. The use of reclaimed sub-base granular material will be paid for at the contract unit price per cubic yard for EXCAVATE AND PLACE EXISTING GRANULAR MATERIAL, which price shall include excavation, stockpiling, placing, and compacting the granular material. Earth excavations will be paid for at contract unit price per cubic yard for EARTH EXCAVATION.

Added 9/7/05

PROGRESS SCHEDULE

Description. This work shall consist of preparing, revising and updating a detailed progress scheduled based upon the Critical Path Method (CPM). This work shall also consist of performing time impact analysis of the progress schedule based upon the various revisions and updates as they occur.

Requirements. The software shall produce an electronic progress schedule for submission to the department that is 100% compatible with Primavera SureTrak 3.0 Project Manager, published by Primavera Systems, Inc.

Format. The electronic schedule format shall contain the following:

- (a) Project Name: (Optional).
- (b) Template: Construction.
- (c) Type: SureTrak: Native file format for stand-alone contracts.
- (d) Planning Unit: Days (calendar working).
- (e) Number/Version: Original or updated number.
- (f) Start Date: Not later than ten days after execution of the contract.
- (g) Must Finish Date: Completion date for completion date contracts.
- (h) Project Title: Contract number.
- (i) Company Name: Contractor's name.

Calendars.

- (a) Completion Date Contracts. The base calendar shall show the proposed working days of the week and the proposed number of work hours per day.
- (b) Working Days Contracts. The base calendar shall show the distribution of working days according to the following table:

MONTH	WORKING DAYS
MAY	15
JUNE	17
JULY	17
AUGUST	17
SEPTEMBER	16
OCTOBER	16
NOVEMBER	14

The number of days shown above shall not be exceeded. The proposed number of hours to be worked per day shall also be shown. No work shall be shown during the period of December 1 and April 30.

Added 9/7/05

Schedule Development. The detailed schedule shall incorporate the entire contract time. The minimum number of activities shown on the schedule shall represent the work incorporating the pay items whose aggregate contract value constitutes 80 percent of the total contract value. These pay items shall be determined by starting with the pay item with the largest individual contract value and adding subsequent pay item contract values in descending order until 80 percent of the contract value has been attained. Any additional activities required to maintain the continuity of the schedule logic shall also be shown.

The following shall be depicted in the schedule for each activity:

- (a) Activity Identification (ID) Numbers. The Contract shall utilize numerical designations to identify each activity. Numbering of activities shall be in increments of not less than ten digits.
- (b) A description of the work represented by the activity (maximum forty-five characters). The use of descriptions referring to a percentage of a multi-element item (i.e., construct deck 50%) shall not be used. Separate activities shall be included to represent different elements of multi-element items (i.e., forms, reinforcing, concrete, etc.). Multiple activities with the same work description shall include a location as part of the description.
- (c) Proposed activity duration shall be shown in whole days. The Contractor shall provide production rates to justify the activity duration. Schedule duration shall be contiguous and not interruptible.

The schedule shall indicate the sequence and interdependence of activities required for the prosecution of the work. The schedule logic shall not be violated.

Activities should be broken down such each activity encompasses a single operation or tightly-integrated operations in a single, contiguous and continuous area of the project, with no activity exceeding \$200,000 without the consent of the Engineer.

Total Float shall be calculated as finish float. The schedule shall be calculated using retained logic. The Contractor shall not sequester float by calendar manipulations or extended duration. Float is not for the exclusive use or benefit of either the Department or the Contractor.

Tabular Reports.

- (a) The following tabular reports will be required with each schedule submission:
 - (1) Classic Gantt
 - (2) Pert with Time Scale
- (b) The heading of each tabular report shall include, but not be limited to, the project name, contract number, Contractor name, report date, data date, report title and page number.
 - (b) Each of the tabular reports shall also contain the following minimum information for each activity.

Added 9/7/05

- (1) Activity ID
- (2) Activity Description
- (3) Original Duration (calendar day/working day)
- (4) Remaining Duration (calendar day/working day)
- (5) Activity Description
- (6) Early Start Date
- (7) Late Start Date
- (8) Early Finish Date
- (9) Late Finish Date
- (10) Percent Complete
- (11) Total Float
- (12) Calendar ID
- (13) Work performed by DBE Subcontractors and Trainees shall be shown in the Gantt Report.

- (d) Reports shall be printed in color on 11 in. x 17 in. (minimum) size sheets. The Classic Gantt shall show all columns, bars, column headings at the top, time scale at the top and shall show relationships.

Submission Requirements. The initial schedule shall be submitted prior to starting work but no later than five calendar days after execution of the contract. Updated schedules shall be submitted according to Article 108.02 except that as a minimum, updated schedules will be required at the 25, 50, and 75 percent completion points of the contract. The Engineer will withhold progress payments if the Contractor does not submit acceptable initial or updated schedules as required.

Updating.

- (a) The Contractor shall not make any changes to the original duration, activity relationships, constraints, costs, add or delete activities, or alter the schedule's logic when updating the schedule.
- (b) The originally approved baseline CPM schedule will be designated as the "Target Schedule" and shall only be changed based on a Change Order that extends the Contract duration. All updates will be plotted against the "Target Schedule." If the Contractor believes any such changes result in an overall increase in the contract time, the Contractor shall immediately submit a request for extension of time along with the changed progress schedule and a detailed justification for the time extension request in accordance with Article 108.08.
- (c) The updated information shall include the original schedule detail and the following additional information:

Added 9/7/05

- (1) Actual start dates
 - (2) Actual finish dates
 - (3) Activity percent completion
 - (4) Remaining duration of activities in progress
 - (5) Identified or highlighted critical activities
- (d) The Contractor shall submit scheduling documents in the same formats and number as indicated in this section.
- (e) Upon receipt of the CPM schedule update, the Engineer will review the schedule for conformance with the Contract Documents and degree of detail. The Engineer, within fourteen (14) Days after receipt of the Updated CPM Schedule and supporting documents, will approve or reject it with written comments. If the Updated CPM schedule is rejected, the Contractor must submit a Revised Updated CPM Schedule within seven (7) Days after the date of rejection.
- (f) The updated progress schedule must accurately represent the Project's current status.

Contractor Changes to the Schedule.

The Contractor shall comply with the following requirements regarding proposed changes to the approved baseline CPM schedule:

- (a) If the Contractor proposes to make any changes in the approved baseline CPM schedule, Contractor shall notify the Engineer in writing, stating the reasons for the change, identifying each changed activity (including duration and interrelationships between activities) and providing a diskette of the proposed changed schedule. Every effort shall be made by the contractor to retain the original Activity ID numbers.
- (b) The Engineer has the authority to approve or disapprove the proposed change in the baseline CPM schedule and will do so in writing within ten (10) Days after receipt to the Contractor's submission. If the Engineer approves the change in the baseline all monthly updates shall be plotted against the new "Target Schedule."
- (c) If the Engineer approves a portion of the change to the baseline CPM schedule, the Contractor shall submit a revised CPM schedule incorporating such change(s) within ten (10) Days after approval along with a written description of the changes(s) to the schedule.

Recovery Schedule.

- (a) The Contractor shall maintain an adequate work force and the necessary materials, supplies and equipment to meet the current approved baseline CPM schedule. In the event that the Contractor, in the judgment of the Engineer, is failing to meet the approved CPM schedule including any Contract milestones, the Contractor shall submit a recovery schedule.

Added 9/7/05

- (b) The recovery schedule shall set forth a plan to eliminate the schedule slippage (negative float). The plan must be specific to show the methods to achieve the recovery of time, i.e. increasing manpower, working overtime, weekend work, employing multiple shifts. All costs associated with implementing the recovery schedule shall be at no additional cost to the Department.
- (c) Upon receipt of the CPM recovery schedule, the Engineer will review the schedule for conformance with the Contract Documents and degree of detail. The Engineer will approve the schedule or reject it with written comments within fourteen (14) Days of receipt of the recovery schedule and supporting documents. If the detailed CPM recovery schedule is rejected, the Contractor shall submit a revised CPM recovery schedule within seven (7) Days of the date of rejection.

Revised Schedule.

- (a) The Engineer may direct the Contractor to revise the approved CPM schedule. Reasons for such direction may include, but are limited to, the following: (1) changes in the Work, (2) re-phasing of the Project or any phase, (3) a change in the duration of the Project or phase, and (4) acceleration of the Project or phase.
 - (b) The Engineer will direct the Contractor to provide a revised CPM schedule in writing.
 - (c) The Contractor shall provide the revised CPM schedule within ten (10) Days of receipt of the Engineer's written direction.
 - (d) The Engineer has the authority, in its sole discretion, to approve or reject the revised CPM schedule and will do so in writing within ten (10) Days after receipt of the Contractor's submission. If the Engineer approves the revised schedule, such schedule will be designated the new "Target Schedule."

The schedule shall be submitted in the Sorted by Activity Layout (SORT4). The activities on the schedule shall be plotted using early start, late start, early finish, late finish and total finish.

For every schedule submission, the Contractor shall submit to the Engineer, four Windows XT compatible compact disks of all schedule data. Included on the disks shall be all of the tabular and graphic reports, network diagrams and bar chart data. Two copies shall be submitted on CD/R disks and two copies shall be submitted on CDD/RW disks. In addition, four plots of the CD/R disks will be approved initial or revised progress schedule for the contract. The approval will be documented by the Engineer on a corresponding plot of the schedule and returned to the Contractor.

Four copies of each schedule submission shall be printed in color on 11 in. x 17 in. (minimum) size sheets showing all columns, bars, column headings at the top, time scale at the top and showing relationships.

The schedule shall indicate the critical path to contract completion. Only one controlling item shall be designated at any point in time on the schedule.

Added 9/7/05

Acceptance or approval of any progress schedule by the Engineer shall not be construed to imply approval of any particular method of construction, sequence of construction, any implied or stated rate of production. Acceptance will not act as a waiver of the obligation of the Contractor to complete the work in accordance with the contract proposal, plans and specifications, modify any rights or obligations of the Department as set forth in the contract, nor imply any obligation of a third party. Acceptance shall not be construed to modify or amend the contract or the time limit(s) therein. Acceptance shall not relieve the Contractor of the responsibility for the accuracy of any of the information included on the schedule. Failure of the Contractor to include in the schedule any element of work required for the performance of the contract, any sequence of work required by the contract, or any known or anticipated condition affecting the work shall not excuse the Contractor from completing all work required within the time limit(s) specified in the contract notwithstanding acceptance of the schedule by the Engineer.

Basis of Payment. This work will not be paid for separately, but shall be considered as included in the costs of the various items of work in the contract.

DRILLED SOLDIER PILE RETAINING WALL

Effective: September 20, 2001

Revised: March 30, 2005

Description. This work shall consist of providing all labor, materials, and equipment necessary to fabricate and furnish the soldier piles, create and maintain the shaft excavations, set and brace the soldier piles into position and encase the soldier piles in concrete to the specified elevation. Also included in this work is the backfilling of the remainder of the shaft excavation with Controlled Low-Strength Material (CLSM), the furnishing and installation of the timber lagging, and the furnishing and installation of CLSM secant lagging. All work shall be according to the details shown on the plans and as directed by the Engineer.

The remainder of the retaining wall components as shown on the plans, such as concrete facing, shear studs, reinforcement bars, tie backs, hand rails, and various drainage items etc., are not included in this Special Provision but are paid for as specified elsewhere in this Contract.

Materials. The materials used for the soldier piles and lagging shall satisfy the following requirements:

- (a) The structural steel components for the soldier piles shall conform to the requirements of AASHTO M270, Grade 250 (36), unless otherwise designated on the plans.
- (b) The soldier pile encasement concrete shall be portland cement concrete according to Section 1020, except the mix design shall be as follows:
 - (1) A Type I or II cement shall be used at 395 kg/cu m (665 lb/cu yd). When the plans specify that soil and ground water sulfate contaminates exceed 500 parts per million, a Type V cement shall be required. The cement shall be increased 35 kg/cu m (60 lb/cu yd) if the concrete is to be placed under water.
 - (2) Class C or F fly ash may replace Type I or II cement. The cement replacement shall not exceed 15 percent by mass (weight) at a minimum replacement ratio of 1.5:1. The fly ash shall not be used in combination with ground granulated blast-furnace slag.

Added 9/7/05

- (3) Grade 100 or 120 ground granulated blast-furnace slag may replace Type I or II cement. The cement replacement shall not exceed 25 percent by mass (weight) at a minimum replacement ratio of 1:1. The ground granulated blast-furnace slag shall not be used in combination with fly ash.
 - (4) The maximum water/cement ratio shall be 0.44.
 - (5) The mortar factor shall be a value which produces a coarse aggregate content comprising between 55 and 65 percent of total aggregate by mass (weight).
 - (6) The slump at point of placement shall be 175 mm \pm 25 mm (7 \pm 1 in.). If concrete is placed to displace drilling fluid or against temporary casing, the slump shall be 200 mm \pm 25 mm (8 \pm 1 in.) at point of placement. The concrete mix shall be designed to remain fluid throughout the anticipated duration of the pour plus 1 hour.
 - (7) An air entraining admixture shall be required and the air content range shall be 4.0 to 7.0 percent.
 - (8) The minimum compressive strength shall be 27,500 kPa (4000 psi) at 14 days. The minimum flexural strength shall be 4,650 kPa (675 psi) at 14 days.
 - (9) A retarding admixture shall be required.
 - (10) A water-reducing or high range water-reducing admixture shall be required.
 - (11) An accelerating admixture may be used with the permission of the Engineer in extraordinary situations.
 - (13) The coarse aggregate shall be CA 13, CA 14, CA 16 or a blend of these gradations. The fine aggregate shall consist of sand only according to Article 1003.01(a).
- (c) The Controlled Low-Strength Material (CLSM), used for backfilling shaft excavations above the soldier pile encasement concrete and for backfilling secant lagging excavations, to the existing ground surface, shall be according to the Recurring Special Provisions for CLSM.
- (d) Temporary casing shall be produced by electric seam, butt, or spiral welding to produce a smooth wall surface, fabricated from steel satisfying ASTM A252 Grade 2. The minimum wall thickness shall be as required to resist the anticipated installation and dewatering stresses, as determined by the Contractor, but in no case less than 6 mm (1/4 in.).
- (e) Drilling slurry shall consist of a polymer or mineral base material. Mineral slurry shall have both a mineral grain size that will remain in suspension with sufficient viscosity and gel characteristics to transport excavated material to a suitable screening system. The percentage and specific gravity of the material used to make the suspension shall be sufficient to maintain the stability of the excavation and to allow proper concrete placement. For polymer slurry, the calcium hardness of the mixing water shall not exceed 100 mg/L.

Added 9/7/05

Timber Lagging. The minimum tabulated unit stress in bending (F_b), used for the design of the timber lagging, shall be 6.9 MPa (1000 psi) unless otherwise specified on the plans. When treated timber lagging is specified on the plans, the method of treatment shall be according to Article 1007.12.

Equipment. The drilling equipment shall have adequate capacity, including power, torque and down thrust, to create a shaft excavation of the maximum diameter specified to a depth of 20 percent beyond the depths shown on the plans. Concrete equipment shall be according to Article 1020.03.

Construction Requirements. The shaft excavation for each soldier pile shall extend to the tip elevation indicated on the plans for soldier piles terminating in soil or to the required embedment in rock when rock is indicated on the contract plans. The Contractor shall satisfy the following requirements:

(a) Drilling Methods. The soldier pile installation may involve the use of one or more of the following drilling methods to maintain excavation side wall stability during the various phases of shaft excavation and concrete placement, dependent on the site conditions encountered:

(1) Dry Method. The dry method consists of drilling the shaft excavation, removing accumulated water and loose material from the excavation, placing the soldier pile and concrete in a predominately dry excavation. This method shall be used only at sites where the groundwater and soil conditions are suitable to permit the drilling and dewatering of the excavation without causing excessive water infiltration, boiling, squeezing, or caving of the excavation side walls. This method allows the concrete placement by tremie or concrete pumps, or if the excavation can be dewatered, the concrete can be placed by free fall.

(2) Wet Method. The wet construction method may be used at sites where dewatering the excavation would cause collapse of the excavation sidewalls or when the volume and head of water flowing into the shaft excavation is likely to contaminate the concrete during placement. This method uses water or slurry to maintain stability of the shaft perimeter while advancing the excavation. After the excavation is completed, the water level in the shaft is allowed to seek equilibrium, the base is cleaned, the soldier pile is set and the concrete is discharged at the base using a tremie pipe or concrete pump, displacing the drilling fluid upward.

Temporary Casing Method. Temporary casing shall be used when either the wet or dry methods provide inadequate support to prevent sidewall caving or to ensure there is not excessive deformation of the hole. Temporary casing may also be used to reduce the flow of water into the excavation to allow dewatering, adequate cleaning, or to ensure proper concrete placement.

Temporary casing will not be allowed to remain permanently in place without the approval of the Engineer. Before the temporary casing is broken loose, the level of soldier pile encasement concrete in the casing shall be a minimum of 1.5 m (5 ft) above the bottom of the casing. After being broken loose, and as the casing is withdrawn, additional concrete shall be added to maintain sufficient head so that water and soil trapped behind the casing can be displaced upward and discharged at the ground surface.

Added 9/7/05

No shaft excavation shall be made adjacent to a soldier pile with encasement concrete that has a compressive strength less than 10.35 MPa (1500 psi), nor adjacent to secant lagging until the CLSM has reach sufficient strength to maintain it's position and shape unless otherwise approved by the Engineer. Materials removed or generated from the shaft excavations shall be disposed of by the Contractor according to Article 202.03. Excavation by blasting will not be permitted.

Drilling Slurry. During construction, the level of the slurry shall be maintained at a height sufficient to prevent caving of the hole. In the event of a sudden or significant loss of slurry to the hole, the construction of that shaft shall be stopped and the shaft excavation backfilled or supported by temporary casing until a method to stop slurry loss, or an alternate construction procedure, has been developed and approved by the Engineer.

- (c) Obstructions. Obstructions shall be defined as any object (such as but not limited to, boulders, logs, old foundations, etc.) that cannot be removed with normal earth drilling procedures, but requires special augers, tooling, core barrels or rock augers to remove the obstruction. When obstructions are encountered, the Contractor shall notify the Engineer and upon concurrence of the Engineer, the Contractor shall begin working to core, break up, push aside, or remove the obstruction. Lost tools or equipment in the excavation, as a result of the Contractor's operation, shall not be defined as obstructions and shall be removed at the Contractor's expense.
- (d) Top of Rock. The actual top of rock will be defined as the point where material is encountered which can not be drilled with a conventional earth auger and/or under-reaming tool, and requires the use of special rock augers, core barrels, air tools or other methods of hand excavation.
- (e) Design Modifications. If the top of rock elevation encountered is below that estimated on the plans, such that the soldier pile length above rock is increased by more than 10 percent, the Engineer shall be contacted to determine if any soldier pile design changes are required. In addition, if the type of soil or rock encountered is not similar to that shown in the subsurface exploration data, the Engineer shall be contacted to determine if revisions are necessary.
- (f) Soldier Pile Fabrication and Placement. The soldier pile is defined as the structural steel section(s) shown on the plans as well as any connecting plates used to join multiple sections. Cleaning and painting of all steel components, when specified, shall be as shown on the plans and accomplished according to the special provision for "Cleaning and Painting New Metal Structures". This work will not be paid for separately, but shall be considered included in the cost of Furnishing Soldier Piles of the type specified.

The soldier pile shall be shop fabricated such that no field welding is required. The Contractor shall attach suitable bracing or support to maintain the position of the soldier pile within the shaft excavation such that the final location will satisfy the Construction Tolerances portion of this Special Provision. The bracing or supports shall remain in place until the concrete for encasement has reached a minimum compressive strength of 10.35 MPa (1500 psi).

Added 9/7/05

When embedment in rock is indicated on the plans, modification to the length of a soldier pile may be required to satisfy the required embedment. The modification shall be made to the top of the soldier pile unless otherwise approved by the Engineer. When the top of rock encountered is above the estimated elevation indicated on the plans, the soldier piles shall be cut to the required length. If the top of rock encountered is below that estimated on the plans, the Contractor shall either furnish longer soldier piles or splice on additional length of soldier pile per Article 512.05(b) to satisfy the required embedment in rock. In order to avoid delays, the Contractor may have additional soldier pile sections fabricated as necessary to make the required adjustments. Additional soldier pile quantities, above those shown on the plans, shall not be furnished without prior written approval by the Engineer.

- (g) Concrete Placement. Concrete work shall be performed according to the applicable portions of Section 503 and as specified herein.

The soldier pile encasement concrete pour shall be made in a continuous manner from the bottom of the shaft excavation to the elevation indicated on the plans. Concrete shall be placed as soon as possible after the excavation is completed and the soldier pile is secured in the proper position. Uneven levels of concrete placed in front, behind, and on the sides of the soldier pile shall be minimized to avoid soldier pile movement, and to ensure complete encasement. Concrete shall be placed either by free fall, or through a tremie or concrete pump subject to the following conditions:

- (1) The free fall placement shall only be permitted in shaft excavations that can be dewatered without causing side wall instability and where no more than 75 mm (3 in.) of standing water exists at the time of concrete placement. The maximum height of free fall placement shall not exceed 18.3 m (60 ft.) and the concrete shall be directed to the base to minimize contact with either the soldier pile or the shaft excavation side wall. Drop chutes may be used to direct concrete to the base during free fall placement.
- (2) Tremies shall be according to Article 503.08 and contain no aluminum parts that may have contact with the concrete. The inside and outside surfaces of the tremie shall be clean and smooth to permit both flow of the concrete and unimpeded withdrawal during concrete placement.
- (3) Concrete pumps. Pumps and lines may be used for concrete placement and shall have a minimum 100 mm (4 in.) diameter.

The tremie or pump lines used for wet method concrete placement shall be watertight and shall not begin discharge until placed within 250 mm (10 in.) of the base of the excavation. Valves, bottom plates or plugs may be used only when they can be removed from the excavation unless approved by the Engineer. The discharge end shall be immersed at least 1.5 m (5 ft.) in concrete at all times after starting the pour.

Following the soldier pile encasement concrete pour, the remaining portion of the shaft excavation shall be backfilled with CLSM.

CLSM Secant lagging placement shall be placed as soon as practical after the shaft excavation is cleared.

- (h) Construction Tolerances. The soldier piles shall be drilled and located within the excavation to satisfy the following tolerances:

- (1) The center of the soldier pile shall be within 38 mm (1 1/2 in.) of plan station and 13 mm (1/2 in.) offset at the top of the shaft.

Added 9/7/05

- (2) The out of vertical plumbness of the soldier pile shall not exceed 0.83 percent.
- (3) The top of the soldier pile shall be within ± 25 mm (± 1 in.) of the plan elevation.
- (i) **Timber Lagging.** Timber lagging, when required by the plans, installed below the original ground surface, shall be placed from the top down as the excavation proceeds. Lagging shown above grade shall be installed and backfilled against prior to installing any permanent facing to minimize post construction deflections. Over-excavation required to place the timber lagging behind the flanges of the soldier piles shall be the minimum necessary to install the lagging. When the plans require the Contractor to design the timber lagging, the design shall be based on established practices published in FHWA or AASHTO documents considering lateral earth pressure, construction loading, traffic surcharges and the lagging span length(s). The nominal thickness of the lagging selected shall not be less than 75 mm (3 in.) and shall satisfy the minimum tabulated unit stress in bending (F_b) stated elsewhere in this Special Provision. The Contractor shall be responsible for the successful performance of the lagging system until the concrete facing is installed. When the nominal timber lagging thickness(s) and allowable stress are specified on the plans, the timber shall be rough cut or surfaced and in accordance with Article 1007.03.
- (j) **Structure Excavation.** When structure excavation is necessary to place a concrete facing, it shall be made and paid for according to Section 502 except that the horizontal limits for structure excavation shall be from the face of the soldier pile to a vertical plane 600 mm (2 ft) from the finished face of the wall. The depth shall be from the top of the original ground surface to the bottom of the concrete facing. The additional excavation necessary to place the lagging whether through soil or CLSM shall be included in this work.
- (k) **Geocomposite Wall Drain.** When required by the plans, the geocomposite wall drain shall be installed and paid for according to Section 591 except that, in the case where a concrete facing is specified on the plans, the wall drain shall be installed on the concrete facing side of the timber lagging with the pervious (fabric) side of the drain installed to face the timber. When a concrete facing is not specified on the plans, the pervious (fabric) side of the drain shall be installed to face the soil. In this case, the drain shall be installed in stages as the timber lagging is installed. The wall drain shall be placed in sections and spliced, or kept on a continuous roll, so that as each timber is placed, the drain can be properly located as the excavation proceeds.

Method of Measurement. The furnishing of soldier piles will be measured for payment in meters (feet) along the centerline of the soldier pile for each of the types specified. The length shall be determined as the difference between the plan top of soldier pile and the final as built shaft excavation bottom.

The drilling and setting of soldier piles in soil and rock, will be measured for payment and the volumes computed in cubic meters (cubic feet) for the shaft excavation required to set the soldier piles according to the plans and specifications, and accepted by the Engineer. These volumes shall be the theoretical volumes computed using the diameter(s) of the shaft(s) shown in the plans and the depth of the excavation in soil and/or rock as appropriate. The depth in soil will be defined as the difference in elevation between the ground surface at the time of concrete placement and the bottom of the shaft excavation or the top of rock (when present), whichever is encountered first. The depth in rock will be defined as the difference in elevation between the measured top of rock and the bottom of the shaft excavation.

Added 9/7/05

Drilling and placing CLSM secant lagging shall be measured for payment in cubic meters (cubic feet) of the shaft excavation required to install the secant lagging as shown in the plans. This volume shall be the theoretical volume computed using the diameter(s) shown on the plans and the difference in elevation between the as built shaft excavation bottom and the ground surface at the time of the CLSM placement.

Timber lagging shall be measured for payment in square meters (square feet) of timber lagging installed to the limits as shown on the plans. The quantity shall be calculated using the minimum lagging length required on the plans multiplied by the as installed height of timbers, for each bay of timber lagging spanning between the soldier piles.

Basis of Payment. The furnishing of soldier piles will be paid for at the contract unit price per meter (foot) for FURNISHING SOLDIER PILES, of the type specified, for the total number of meters (feet) furnished to the job site. The cost of any field splices required due to changes in top of rock elevation shall be paid for according to Article 109.04.

The drilling and setting of soldier piles will be paid for at the contract unit price per cubic meter (cubic foot) for DRILLING AND SETTING SOLDIER PILES (IN SOIL) and DRILLING AND SETTING SOLDIER PILES (IN ROCK). The required shaft excavation, soldier pile encasement concrete and any CLSM backfill required around each soldier pile will not be paid for separately but shall be included in this item.

The timber lagging will be paid for at the contract unit price per square meter (square foot) for UNTREATED TIMBER LAGGING, or TREATED TIMBER LAGGING as detailed on the plans.

The secant lagging will be paid for at the contract unit price per cubic meter (cubic foot) for SECANT LAGGING. The required shaft excavation and CLSM backfill required to fill that excavation shall be included in this item.

Obstruction mitigation shall be paid for according to Article 109.04.

No additional compensation, other than noted above, will be allowed for removing and disposing of excavated materials, for furnishing and placing concrete, bracing, lining, temporary casings placed and removed or left in place, or for any excavation made or concrete placed outside of the plan diameter(s) of the shaft(s) specified.

PAYROLLS AND PAYROLL RECORDS (BDE)

Effective: August 10, 2005

FEDERAL AID CONTRACTS. Add the following State of Illinois requirements to the Federal requirements contained in Section V of Form FHWA-1273:

“The payroll records shall include each worker’s name, address, telephone number, social security number, classification, rate of pay, number of hours worked each day, starting and ending times of work each day, total hours worked each week, itemized deductions made, and actual wages paid.

Added 9/7/05

The Contractor and each subcontractor shall submit payroll records to the Engineer each week from the start to the completion of their respective work. The submittals shall be on the Department's form SBE 48, or an approved facsimile. When there has been no activity during a work week, a payroll record shall still be submitted with the appropriate box ("No Work", "Suspended", or "Complete") checked on the form."

STATE CONTRACTS. Revise Section IV of Check Sheet #5 of the Recurring Special Provisions to read:

"IV.COMPLIANCE WITH THE PREVAILING WAGE ACT

1. Prevailing Wages. All wages paid by the Contractor and each subcontractor shall be in compliance with The Prevailing Wage Act (820 ILCS 130), as amended, except where a prevailing wage violates a federal law, order, or ruling, the rate conforming to the federal law, order, or ruling shall govern. The Contractor shall be responsible to notify each subcontractor of the wage rates set forth in this contract and any revisions thereto. If the Department of Labor revises the wage rates, the Contractor will not be allowed additional compensation on account of said revisions.
2. Payroll Records. The Contractor and each subcontractor shall make and keep, for a period of three years from the date of completion of this contract, records of the wages paid to his/her workers. The payroll records shall include each worker's name, address, telephone number, social security number, classification, rate of pay, number of hours worked each day, starting and ending times of work each day, total hours worked each week, itemized deductions made, and actual wages paid. Upon two business days' notice, these records shall be available, at all reasonable hours at a location within the State, for inspection by the Department or the Department of Labor.
3. Submission of Payroll Records. The Contractor and each subcontractor shall submit payroll records to the Engineer each week from the start to the completion of their respective work. The submittals shall be on the Department's form SBE 48, or an approved facsimile. When there has been no activity during a work week, a payroll record shall still be submitted with the appropriate box ("No Work", "Suspended", or "Complete") checked on the form.

Each submittal shall be accompanied by a statement signed by the Contractor or subcontractor which avers that: (i) such records are true and accurate; (ii) the hourly rate paid to each worker is not less than the general prevailing rate of hourly wages required by the Act; and (iii) the Contractor or subcontractor is aware that filing a payroll record that he/she knows to be false is a Class B misdemeanor.

4. Employee Interviews. The Contractor and each subcontractor shall permit his/her employees to be interviewed on the job, during working hours, by compliance investigators of the Department or the Department of Labor."

80155

Added 9/7/05

POROUS GRANULAR EMBANKMENT, SUBGRADE

This work consists of furnishing, placing, and compacting porous granular material to the lines and grades shown on the plans or as directed by the Engineer in accordance with applicable portions of Section 207 of the Standard Specifications. This work shall be done as field conditions warrant as determined by the Engineer.

The material shall be used as a bridging layer over soft, pumpy, loose soil and for placing under water and shall conform with Article 1004.06 of the Standard Specifications except the gradation shall be as follows:

1. Crushed Stone, Crushed Blast Furnace Slag and Crushed Concret

<u>Sieve Size</u>	<u>Percent Passing</u>
200mm (8 inches)	100
*150mm (6 inches)	97±3
*100mm (4 inches)	90±10
50mm (2 inches)	45±25
75 um (#200)	5±5

2. Crushed Gravel

<u>Sieve Size</u>	<u>Percent Passing</u>
*150 mm (6 inches)	100
*100 mm (4 inches)	90±10
50 mm (2 inches)	55±25
4.75 mm (#4)	30±20
75 um (#200)	5±5

*For undercut greater than 450 mm (18 inches) the percent passing the 150 mm (6 inches) sieve may be 90+/-10 and the 100 mm (4 inches) sieve requirements eliminated.

The porous granular material shall be placed in one lift when the total thickness to be placed is 600 mm (2 feet) or less or as directed by the Engineer. Each lift of the porous granular material shall be rolled with a vibratory roller meeting the requirements of Article 1101.01 of the Standard Specifications to obtain the desired keying or interlock and compaction. The Engineer shall verify that adequate keying has been obtained.

A 75 mm (3 inches) nominal thickness top lift of capping aggregate having a gradation of CA 6 will be required when Aggregate Subgrade is not specified in the contract and Porous Granular Embankment, Subgrade will be used under the pavement and shoulders. Capping aggregate will not be required when embankment meeting the requirements of Section 207 of the Standard Specifications or granular subbase is placed on top of the porous granular material.

Construction equipment not necessary for the completion of the replacement material will not be allowed on the undercut areas until completion of the recommended thickness of the porous granular embankment subgrade.

Added 9/7/05

Full depth subgrade undercut shall occur at limits determined by the Engineer. A transition slope to the full depth of undercut shall be made outside of the undercut limits at a taper of 300 mm (1 foot) longitudinal per 25 mm (1 inch) depth below the proposed subgrade or bottom of the proposed aggregate subgrade when included in the contract.

If the Engineer determines this work is warranted, the work will be paid for according to Article 109.04 of the Standard Specifications.

Added 9/7/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF PRICES
 CONTRACT
 NUMBER - 62300

State Job # - C-91-417-01
 PPS NBR - 1-74823-0502
 County Name - COOK- -
 Code - 31 - -
 District - 1 - -
 Section Number - (1818,ETC,2324.6-1P)R-8

Project Number
 IM-094-3/397/055

Route
 FAI 94/90
 (NB)

* COMPLETE NEW SCHEDULE

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
K1003660	MOWING CYCLES	EACH	6.000				
XX001854	STAB SUB-BASE 6	SQ YD	212,833.000				
XX004201	PAVT REINFORCEMENT 14	SQ YD	148,588.000				
XX004812	VIDEO TAPE OF SEWERS	FOOT	1,191.000				
XX005489	STEEL CASING 48	FOOT	600.000				
X0320870	BRACED EXCAVATION	CU YD	6,621.000				
X0321027	DRILL GROUT HOLES	FOOT	60.000				
X0322256	TEMP INFO SIGNING	SQ FT	729.000				
X0323221	PLUG & ABAND EX PIPE	CU YD	251.000				
X0323426	SED CONT DR ST INL CL	EACH	209.000				
X0323988	TEMP SOIL RETEN SYSTM	SQ FT	33,389.000				
X0324112	BARRIER BASE	FOOT	27,132.000				
X0324431	TEMP SOIL RET SYS RIP	SQ FT	763.000				
X0324455	DRILL/SET SOLD P SOIL	CU FT	39,302.000				
X0324697	SOIL STABILIZERS	POUND	65,508.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
X0324698	APPLY DUST SUP AGENTS	UNIT	95.000				
X0325080	VIDEO TAPING MWRD CUL	FOOT	245.000				
X0325081	CONC SLAB HY DEM	SQ YD	237.000				
X0325082	CTA BAR REM	FOOT	21,781.000				
X0325083	CTA FENCE	FOOT	21,335.000				
X0325084	CTA GATES	EACH	23.000				
X0325085	TEMP PAVT INTERSTATE	SQ YD	9,685.000				
X0325086	TEMP CTA BALLAST RET	L SUM	1.000				
X0325087	VIDEO TAPING MN DRAIN	FOOT	43,620.000				
X0325088	PLAC OF CEMENT IN GRT	CU FT	150.000				
X0325089	CONN TO GROUT HOLE	EACH	4.000				
X0325090	MAIND DROP MANHOLE N1	EACH	1.000				
X0325091	MAIND DROP MANHOLE N2	EACH	1.000				
X0325092	MAIND DROP MANHOLE N3	EACH	1.000				
X0325093	MAIND DROP MANHOLE N4	EACH	1.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
X0325094	MAIND DROP MANHOLE N5	EACH	1.000				
X0325095	MAIN DRAIN CLEANING	FT	32,900.000				
X2020300	EXC & PL EX GRAN MATL	CU YD	44,744.000				
X3540580	PC IN GROUT	CU FT	50.000				
X4210400	LUG SYSTEM REMOVAL	EACH	2.000				
X4810100	TEMP SHOULDERS	SQ YD	8,221.000				
X4834090	PCC SHOULDERS 14	SQ YD	52,692.000				
X5120905	FUR SOLD PILE W 12X72	FOOT	3,040.000				
X5120906	FUR SOLD PIL W 12X106	FOOT	4,980.000				
X5120907	FUR SOLD PIL W 12X120	FOOT	4,170.000				
X6020166	DR STR T1 SP 2T20F&G	EACH	62.000				
X6020167	DR STR T2 SP 2T22F&G	EACH	2.000				
X6063401	COMB CC&G TM4.12	FOOT	248.000				
X6063600	COMB CC&G TM4.24	FOOT	956.000				
X6370910	CONC BAR 1F 32HT	FOOT	1,742.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
X6370925	CONC BAR 1F 42 SPL	FOOT	21,241.000				
X6370927	CONC BAR 1F 72 SPL	FOOT	332.000				
X6370930	CONC BAR 2F 32HT	FOOT	2,715.000				
X6700410	ENGR FLD OFF A SPL	CAL MO	15.000				
X7011008	TC-PROT ALT ROUTE SN	CAL MO	10.000				
X7011015	TR C-PROT EXPRESSWAYS	L SUM	1.000				
X7013820	TR CONT SURVEIL EXPWY	CAL DA	303.000				
X7015000	CHANGEABLE MESSAGE SN	CAL MO	59.000				
X7040600	FUR TEMP CONC BARRIER	FOOT	17,648.000				
X7330105	OSS WALKWAY TY A	FOOT	100.000				
X7360100	REM OH S STR-CANT VMS	EACH	1.000				
X8100042	CON ENC CONC 3 PVC	FOOT	766.000				
Z0002600	BAR SPLICERS	EACH	257.000				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.000				
Z0018500	DRAINAGE STR CLEANED	EACH	51.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
Z0018800	DRAINAGE SYSTEM	L SUM	1.000				
Z0018900	DRILL-GROUT DOW BARS	EACH	5,818.000				
Z0026420	STEEL CASING 60	FOOT	71.000				
Z0029999	IMPACT ATTENUATOR REM	EACH	6.000				
Z0030070	IMP ATTEN SU NAR TL3	EACH	3.000				
Z0030090	IMP ATTEN SU WID TL3	EACH	1.000				
Z0030150	IMPACT ATTEN NRD TL3	EACH	1.000				
Z0030250	IMP ATTN TEMP NRD TL3	EACH	7.000				
Z0040530	PIPE UNDERDRAIN REMOV	FOOT	298.000				
Z0048665	RR PROT LIABILITY INS	L SUM	1.000				
20200100	EARTH EXCAVATION	CU YD	172,538.000				
20800150	TRENCH BACKFILL	CU YD	36,946.000				
21001000	GEOTECH FAB F/GR STAB	SQ YD	218,645.000				
21101615	TOPSOIL F & P 4	SQ YD	2,139.000				
21101630	TOPSOIL F & P 8	SQ YD	3,208.000				

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF PRICES
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 County Name - COOK - -
 Code - 31 - -
 District - 1 - -
 Section Number - (1818,ETC,2324.6-1P)R-8

Project Number
 IM-094-3/397/055

Route
 FAI 94/90
 (NB)

* COMPLETE NEW SCHEDULE

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
21101815	COMPOST F & P 4	SQ YD	3,208.000				
21301052	EXPLOR TRENCH 52	FOOT	540.000				
25000210	SEEDING CL 2A	ACRE	1.000				
25000400	NITROGEN FERT NUTR	POUND	99.000				
25000500	PHOSPHORUS FERT NUTR	POUND	99.000				
25000600	POTASSIUM FERT NUTR	POUND	99.000				
25100115	MULCH METHOD 2	ACRE	1.000				
25100630	EROSION CONTR BLANKET	SQ YD	5,347.000				
28000250	TEMP EROS CONTR SEED	POUND	110.000				
28000400	PERIMETER EROS BAR	FOOT	1,744.000				
28000510	INLET FILTERS	EACH	209.000				
31101810	SUB GRAN MAT B 12	SQ YD	133,172.000				
31101860	SUB GRAN MAT B 24	SQ YD	90,155.000				
42001165	BR APPR PAVT	SQ YD	456.000				
42001300	PROTECTIVE COAT	SQ YD	229,991.000				

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 IM-094-3/397/055

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42100380	CONT REINF PCC PVT 14	SQ YD	148,588.000				
42101448	LUG SYSTEM COMPL 48	EACH	2.000				
42101452	LUG SYSTEM COMPL 52	EACH	1.000				
44000013	BIT SURF REM 5	SQ YD	143.000				
44000030	BIT SURF REM VAR DP	SQ YD	82.000				
44000100	PAVEMENT REM	SQ YD	151,628.000				
44000500	COMB CURB GUTTER REM	FOOT	8,832.000				
44000700	APPROACH SLAB REM	SQ YD	219.000				
44001980	CONC BARRIER REMOV	FOOT	21,284.000				
44004250	PAVED SHLD REMOVAL	SQ YD	63,526.000				
44201474	CL C PATCH T1	SQ YD	25.000				
44201476	CL C PATCH T2	SQ YD	60.000				
44201478	CL C PATCH T3	SQ YD	50.000				
44213200	SAW CUTS	FOOT	100.000				
48202400	BIT SHLD SUPER 6	SQ YD	36.000				

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 IM-094-3/397/055

Route
 FAI 94/90
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50102400	CONC REM	CU YD	8.000				
50200100	STRUCTURE EXCAVATION	CU YD	835.000				
50300225	CONC STRUCT	CU YD	57.000				
50300255	CONC SUP-STR	CU YD	1,269.000				
50300260	BR DECK GROOVING	SQ YD	212.000				
50300300	PROTECTIVE COAT	SQ YD	4,560.000				
50301245	FORM CONC REP =< 5	SQ FT	1,219.000				
50301250	FORM CONC REP > 5	SQ FT	44.000				
50700209	UNTREATED TIMBER LAG	SQ FT	15,387.000				
50800205	REINF BARS, EPOXY CTD	POUND	78,636.000				
550A0050	STORM SEW CL A 1 12	FOOT	4,598.000				
550A0070	STORM SEW CL A 1 15	FOOT	1,054.000				
550A0090	STORM SEW CL A 1 18	FOOT	68.000				
550A0110	STORM SEW CL A 1 21	FOOT	133.000				
550A0340	STORM SEW CL A 2 12	FOOT	4,507.000				

ILLINOIS DEPARTMENT OF TRANSPORTATION
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Project Number
 IM-094-3/397/055

Route
 FAI 94/90
 (NB)

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550A0360	STORM SEW CL A 2 15	FOOT	988.000				
550A0380	STORM SEW CL A 2 18	FOOT	2,219.000				
550A0400	STORM SEW CL A 2 21	FOOT	2,438.000				
550A0410	STORM SEW CL A 2 24	FOOT	1,669.000				
550A0420	STORM SEW CL A 2 27	FOOT	1,748.000				
550A0430	STORM SEW CL A 2 30	FOOT	2,650.000				
550A0440	STORM SEW CL A 2 33	FOOT	501.000				
550A0450	STORM SEW CL A 2 36	FOOT	2,467.000				
550A0470	STORM SEW CL A 2 42	FOOT	827.000				
550A0480	STORM SEW CL A 2 48	FOOT	53.000				
550A0640	STORM SEW CL A 3 12	FOOT	8.000				
550A0700	STORM SEW CL A 3 21	FOOT	314.000				
550A0710	STORM SEW CL A 3 24	FOOT	151.000				
550A0720	STORM SEW CL A 3 27	FOOT	66.000				
550A0730	STORM SEW CL A 3 30	FOOT	664.000				

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF PRICES
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Project Number
 IM-094-3/397/055

Route
 FAI 94/90
 (NB)

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550A0750	STORM SEW CL A 3 36	FOOT	555.000				
550A0770	STORM SEW CL A 3 42	FOOT	50.000				
550B0050	STORM SEW CL B 1 12	FOOT	374.000				
550B0070	STORM SEW CL B 1 15	FOOT	21.000				
55100300	STORM SEWER REM 8	FOOT	510.000				
55100400	STORM SEWER REM 10	FOOT	6,548.000				
55100500	STORM SEWER REM 12	FOOT	5,070.000				
55100700	STORM SEWER REM 15	FOOT	4,309.000				
55100900	STORM SEWER REM 18	FOOT	4,490.000				
55101100	STORM SEWER REM 21	FOOT	495.000				
55101200	STORM SEWER REM 24	FOOT	4,776.000				
55101300	STORM SEWER REM 27	FOOT	200.000				
55101400	STORM SEWER REM 30	FOOT	1,652.000				
55101600	STORM SEWER REM 36	FOOT	504.000				
55101800	STORM SEWER REM 42	FOOT	53.000				

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Project Number
 IM-094-3/397/055

Route
 FAI 94/90
 (NB)

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552A1300	SS JKD CL A 36	FOOT	600.000				
552A1500	SS JKD CL A 42	FOOT	71.000				
59000100	EPOXY CRACK SEALING	FOOT	275.000				
60107700	PIPE UNDERDRAINS 6	FOOT	49,364.000				
60108200	PIPE UNDERDRAIN 6 SP	FOOT	748.000				
60109000	P UNDR PER COR S P 12	FOOT	304.000				
60200105	CB TA 4 DIA T1F OL	EACH	25.000				
60200805	CB TA 4 DIA T8G	EACH	1.000				
60201310	CB TA 4 DIA T20F&G	EACH	273.000				
60203805	CB TA 5 DIA T1F OL	EACH	4.000				
60218400	MAN TA 4 DIA T1F CL	EACH	53.000				
60221100	MAN TA 5 DIA T1F CL	EACH	141.000				
60223700	MAN TA 6 DIA T1F OL	EACH	1.000				
60226730	MAN DT 6 DIA T1F CL	EACH	1.000				
60240324	INLETS TB T20F&G	EACH	28.000				

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 Section Number - (1818,ETC,2324.6-1P)R-8

Project Number
 IM-094-3/397/055

Route
 FAI 94/90
 (NB)

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
60248000	JUNCTION CHAMBER N1	EACH	1.000				
60248100	JUNCTION CHAMBER N2	EACH	1.000				
60248200	JUNCTION CHAMBER N3	EACH	1.000				
60248300	JUNCTION CHAMBER N4	EACH	1.000				
60248400	JUNCTION CHAMBER N5	EACH	1.000				
60248500	JUNCTION CHAMBER N6	EACH	1.000				
60248600	JUNCTION CHAMBER N7	EACH	1.000				
60248610	JUNCTION CHAMBER N8	EACH	1.000				
60248620	JUNCTION CHAMBER N9	EACH	1.000				
60248630	JUNCTION CHAMBER N10	EACH	1.000				
60248640	JUNCTION CHAMBER N11	EACH	1.000				
60248650	JUNCTION CHAMBER N12	EACH	1.000				
60248660	JUNCTION CHAMBER N13	EACH	1.000				
60250400	CB ADJ NEW T1F OL	EACH	56.000				
60255700	MAN ADJ NEW T1F OL	EACH	99.000				

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Project Number
 IM-094-3/397/055

Route
 FAI 94/90
 (NB)

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
60260300	INLETS ADJ NEW T1F OL	EACH	39.000				
60500040	REMOV MANHOLES	EACH	209.000				
60500050	REMOV CATCH BAS	EACH	263.000				
60500060	REMOV INLETS	EACH	47.000				
60500105	FILL MANHOLES	EACH	32.000				
60500205	FILL CATCH BAS	EACH	31.000				
60618324	CONC MEDIAN SURF 6 SP	SQ FT	3,997.000				
63100085	TRAF BAR TERM T6	EACH	1.000				
63100167	TR BAR TRM T1 SPL TAN	EACH	1.000				
63700805	CONC BAR TRANS	FOOT	973.000				
66400560	CH LK FENCE 6 SPL	FOOT	24,000.000				
66402900	CH LK GATE 6X6 SINGL	EACH	23.000				
66900200	NON SPL WASTE DISPOSL	CU YD	10,688.000				
66900450	SPL WASTE PLNS/REPORT	L SUM	1.000				
66900525	PRI POL-TCLP SOIL ANL	EACH	6.000				

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Project Number
 IM-094-3/397/055

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 FAI 94/90
 (NB)

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
66900530	SOIL DISPOSAL ANALY	EACH	2.000				
67000600	ENGR FIELD LAB	CAL MO	10.000				
67100100	MOBILIZATION	L SUM	1.000				
70300240	TEMP PVT MK LINE 6	FOOT	31,465.000				
70300510	PAVT MARK TAPE T3 L&S	SQ FT	180.000				
70300520	PAVT MARK TAPE T3 4	FOOT	114,100.000				
70300530	PAVT MARK TAPE T3 5	FOOT	15,638.000				
70300550	PAVT MARK TAPE T3 8	FOOT	16,720.000				
70300560	PAVT MARK TAPE T3 12	FOOT	3,813.000				
70301000	WORK ZONE PAVT MK REM	SQ FT	64,959.000				
70400100	TEMP CONC BARRIER	FOOT	24,096.000				
70400200	REL TEMP CONC BARRIER	FOOT	24,295.000				
72000100	SIGN PANEL T1	SQ FT	12.000				
72000200	SIGN PANEL T2	SQ FT	96.000				
72000300	SIGN PANEL T3	SQ FT	4,186.000				

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Project Number
 IM-094-3/397/055

Route
 FAI 94/90
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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
72100100	SIGN PANEL OVERLAY	SQ FT	2.000				
72400320	REMOV SIGN PANEL T2	SQ FT	72.000				
72400330	REMOV SIGN PANEL T3	SQ FT	591.000				
72400720	RELOC SIGN PANEL T2	SQ FT	12.000				
72400730	RELOC SIGN PANEL T3	SQ FT	488.000				
72700100	STR STL SIN SUP BA	POUND	1,890.000				
72800100	TELES STL SIN SUPPORT	FOOT	88.000				
73000100	WOOD SIN SUPPORT	FOOT	17.000				
73300100	OVHD SIN STR-SPAN T1A	FOOT	72.000				
73300300	OVHD SIN STR-SPAN T3A	FOOT	142.000				
73304000	OVHD SIN STR BR MT	FOOT	332.000				
73305000	OVHD SIN STR WALKWAY	FOOT	377.000				
73400100	CONC FOUNDATION	CU YD	7.000				
73400200	DRILL SHAFT CONC FDN	CU YD	179.000				
73600100	REMOV OH SIN STR-SPAN	EACH	6.000				

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73602000	REM OVHD SN STR-BR MT	EACH	7.000				
73700300	REM CONC FDN-OVHD	EACH	11.000				
78005100	EPOXY PVT MK LTR-SYM	SQ FT	327.000				
78005110	EPOXY PVT MK LINE 4	FOOT	100,671.000				
78005120	EPOXY PVT MK LINE 5	FOOT	26,758.000				
78005140	EPOXY PVT MK LINE 8	FOOT	21,714.000				
78005150	EPOXY PVT MK LINE 12	FOOT	5,824.000				
78200100	MONODIR PRIS BAR REFL	EACH	1,663.000				
78200530	BAR WALL MKR TYPE C	EACH	414.000				
78201000	TERMINAL MARKER - DA	EACH	1.000				
78300100	PAVT MARKING REMOVAL	SQ FT	26,297.000				
81000600	CON T 2 GALVS	FOOT	299.000				
81000800	CON T 3 GALVS	FOOT	6.000				
81400200	HD HANDHOLE	EACH	13.000				
81400205	HD HANDHOLE SPL	EACH	2.000				

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 FAI 94/90
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81500200	TR & BKFIL F ELECT WK	FOOT	305.000				
84200800	POLE FOUNDATION RM	EACH	130.000				

CONTRACT NUMBER

62300

THIS IS THE TOTAL BID

\$ _____

NOTES:

1. Each PAY ITEM should have a UNIT PRICE and a TOTAL PRICE.
2. The UNIT PRICE shall govern if no TOTAL PRICE is shown or if there is a discrepancy between the product of the UNIT PRICE multiplied by the QUANTITY.
3. If a UNIT PRICE is omitted, the TOTAL PRICE will be divided by the QUANTITY in order to establish a UNIT PRICE.
4. A bid may be declared UNACCEPTABLE if neither a unit price nor a total price is shown.