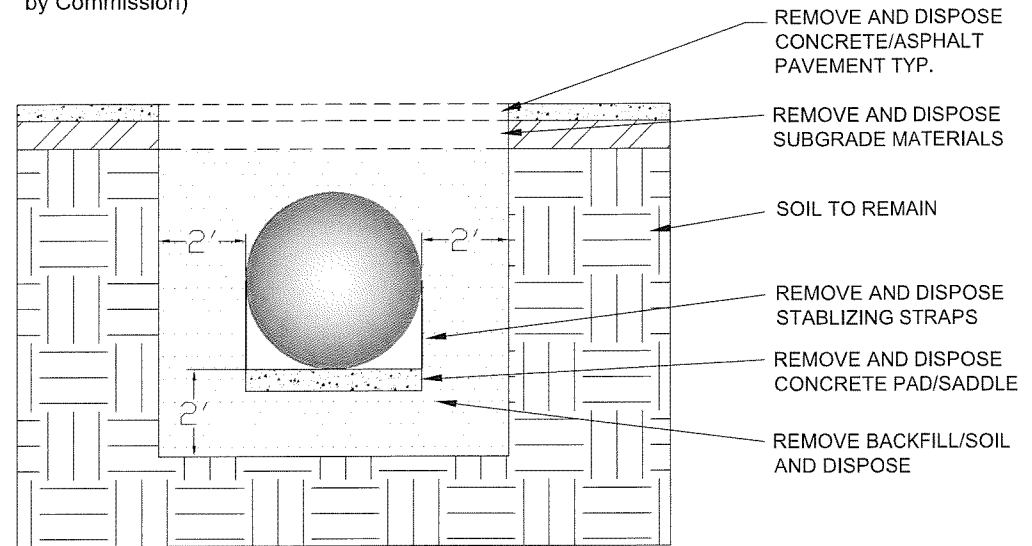


ENVIRONMENTAL GENERAL NOTES

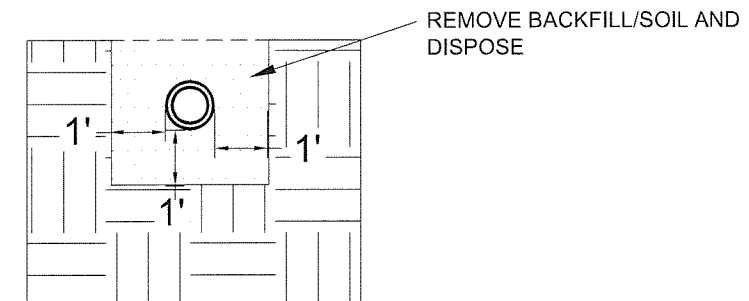
1. The Environmental Inspection reports are attached for review. These locations and quantities are estimates, for reference purposes only, that may be used to aid with the bidding process, but the Contractor should verify all quantities and locations in the field. ALL INTERPRETATIONS OF THE REPORTS ARE TO BE REQUESTED IN WRITING AND MADE BY THE OWNER. Please seek written clarification on Scope of Work or interpretation of documents prior to starting any Bid. Change orders resulting from quantity changes **WILL NOT** be entertained.
2. The Contractor is responsible for all security to the Work area(s) and equipment during the environmental abatement and hazardous materials removal activities. In addition, if Contractor removes windows or doors for abatement purposes, then Contractor responsible for board up and any other controls to adequately secure property until demolition.
3. Each Scope Sheet contains a "Comments" section. Any comments written in this section pertain only to the Scope Sheet where the comments are written and shall not be interpreted with other Scope Sheet comments.
4. Removal and relocation of all furniture, garbage and/or other moveable objects from areas impacted by this project shall be the responsibility of the Contractor.
5. In areas where multiple environmental materials need to be removed, the Work shall proceed in the following sequence. Hazardous chemicals, bulbs/ballasts, ACM.
6. The Contractor shall coordinate all abatement, hazardous materials removal, and demolition activities with the Owner. Additional trades may have responsibilities for Work on or around the site. Contractor shall cooperate and coordinate Work with these Contractors throughout the duration of their Work.
7. All Work involving the disturbance of lead based paint shall be in accordance with the IDPH and OSHA regulations and requirements. The demolition/renovation Contractor shall utilize engineering control methods to reduce or eliminate potential lead exposures for the site workers. Lead-based paint has been confirmed present throughout the site and shall be disposed in accordance with Section 02089.
8. Lead-based paint and lead glazing has been identified on numerous building components throughout the Michael Reese complex. These components include various concrete surfaces and glazed block. Contractor shall not crush and/or recycle painted or glazed concrete or glazed block materials for on-site use.
9. Contractor shall assume that all medical waste/radioactive materials have been removed prior to the start of work with the exception of what is shown on the Scope Sheets.
10. Contractor shall prepare a site safety plan in accordance with Section 2390. All site workers involved in site activities must adhere to the site safety plan procedures and requirements.
11. Contractor shall be responsible for the proper handling and disposal of all liquid and sludge materials located within the building systems in accordance with all local, state, and federal regulations. This includes waste pots, vats, storage tanks, piping systems, holding tanks, etc.
12. The Contractor shall properly remove and dispose/recycle of the lighting fixtures and all associated components. The Contractor shall identify, properly remove and dispose of any ballasts, capacitors, circuit breakers and transformers which contain polychlorinated biphenyls (PCBs), and any high intensity discharge lamps, exit lights and fluorescent lamps (mercury-containing lamps) in accordance to local, state and federal regulations. After verification of PCB ballasts, the Contractor shall separate and quantify the ballasts by type (PCB containing or non-PCB containing) for disposal. Do not lump all ballasts together as PCB waste.
13. Any transformers located within the boundaries of the demolition project should be assumed to contain PCB's, until additional testing is performed by the Contractor. The testing and abatement shall be included in the Base Contract Price.
14. Elevator hydraulic fluids have not been sampled. The fluids should be assumed to contain PCB's, until additional testing is performed by the Contractor. The testing and abatement shall be included in the Base Contract Price.
15. All Freon / CFC's shall be removed and recycled from all equipment prior to demolition.
16. The Contractor shall in accordance to local, state and federal regulations properly remove and dispose of the Ethylene Glycol or any other coolant found treatment chemicals within the cooling and heating systems.
17. The Contractor shall assume the soot in the stacks and incinerators to be a hazardous material. The Contractor shall conduct sampling and laboratory analysis of these materials to characterize the waste for proper disposal. The testing and abatement shall be included in the Base Contract Price.
18. The Contractor is responsible for the classification, removal, and disposal of the liquids found in all the sink traps. The testing, removal and disposal shall be included in the Base Contract Price.
19. The possibility exists that lead shielding may be located within the walls of X-Ray rooms within various buildings. The Contractor will be responsible for the demolition and disposal of these materials.
20. The Contractor shall provide all lighting and water, as necessary, to perform the abatement and hazardous materials removal Work described in the environmental Scope of Work.
21. Aggressive clearance air sampling is required for any area in which asbestos abatement activities are conducted that will be re-occupied after abatement activities are complete. Re-occupancy includes any activity conducted by any person, i.e. walk through, salvage activities, recycling, demolition, etc. The Contractor will be required, in writing, to request a visual clearance and final air sampling for ALL areas. After completion and clearance has been achieved, the Contractor will receive a "Clearance Granted" letter from the on-site Asbestos Project Manager.
22. The removal of asbestos containing material (ACM) floor tile and mastic shall include any underlayment, and any additional layers of floor tile and mastic. Contractor shall remove non-asbestos containing carpeting, if necessary, to facilitate removal of floor tile and mastic. Removal of carpeting shall be done in a manner not to disturb underlying floor tile, or carpeting shall be removed and disposed as an asbestos containing material.
23. Contractor to provide a written schedule and drawings showing any phasing of the project, location of worker and equipment enclosure systems, location of dumpsters, etc. This documentation must be approved by Owner 10 business days prior to any Work activities.
24. The elevators are not available for use during the abatement and hazardous materials removal activities. Contractor shall be responsible for access to and from all floors of the buildings to perform Work.
25. All Thermal System Insulation (Pipes, Ducts, etc), Floor tiles & Mastics, or other ACM identified shall be removed prior to demolition. Contractor shall conduct exploratory demolition to locate ACM behind walls & ceilings, inside pipe chases, columns, air shafts, above drop ceilings, etc. Debris generated during exploratory demolition of non-asbestos containing materials must be cleaned up by the Contractor, and either disposed of as general construction debris or neatly positioned in an area of the room and covered with 6-mil poly sheeting. Aggressive clearance air samples will be collected by Commission's Representative at the completion of each abatement phase and the presence of non-asbestos containing dust/demolition debris may hinder sampling. If damaged, friable ACM or any asbestos debris present at or near areas of exploratory demolition, the non-asbestos containing material produced during demolition shall be treated and handled as asbestos/special waste. Disposal of demolition debris as special waste is *applicable only* at areas where damaged asbestos materials are present.
26. Elevator doors and the elevator cabs have not been tested for asbestos. Contractor shall assume all elevator doors and cabs contain asbestos and require abatement as part of Base Contract Price. Contractor may at own cost conduct sampling to exclude from abatement. All cost for sampling and analysis shall be at no additional cost to Commission.
27. The Contractor will be required to provide the on-site Asbestos Project Manager with a weekly count of dumpsters hauled from the site, and any other hazardous material removed and hauled from the site. In addition, all copies of manifests shall be provided within 10 days of disposal or recycling activities.
28. Category I non-friable roofing and roof flashing shall be handled by the Contractor in the most cost effective manner, following all applicable regulatory requirements. Abatement of these asphalt roofing products are not required prior to demolition.
29. TSI is defined as thermal system pipe insulation, fittings, joints, elbows, or any other insulation on tanks, pipes, ducts, boilers.
30. The Contractor is responsible for notifying Commission Representative of all locations that asbestos containing materials are suspected of extending through or past the structural walls of a building. This shall include basement locations with no access where utilities may connect buildings below grade.
31. As part of the Base Contract Price Work, the Contractor shall include all exploratory demolition of the incinerators, stacks, and boilers, to test any suspect materials that may be present within the interior of these components. The abatement of all interior boiler materials, stack insulation, and incinerator materials shall be included in the Base Contract Price.
32. The Contractor is responsible for the structural integrity of areas where interior demolition is being conducted to access asbestos containing materials. In particular, extra care shall be taken when demolition is being conducted within the basements and tunnels.
33. Contractor shall be responsible for all abatement within all electrical, phone, data equipment vaults, rooms, or auxiliary structures within the Group boundary. All vaults, rooms, or structures are not indicated on the drawings and site plans. Work should be performed following removal of all equipment by Contractor or utility company as specified.
34. Fire doors have not been tested for asbestos. Contractor shall assume all fire doors contain asbestos and require abatement as part of Base Contract Price. Contractor may at own cost conduct sampling to exclude from abatement. All cost for sampling and analysis shall be at no additional cost to Commission.

UST EXCAVATION DETAIL (TYP.)

(No UST Removal Included in Base Contract Work - Detail and Specifications Applicable if UST Removal Requested by Commission)



UST PIPING (TYP.)



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Rev	By	Date	Description
1	Draft	07/25/10	DSB
2	Issued For Bid	08/02/10	DSB

Project Number:	SP
Drawn By:	SP
Checked By:	DSB
File Path:	P:\Projects\XXXXXX

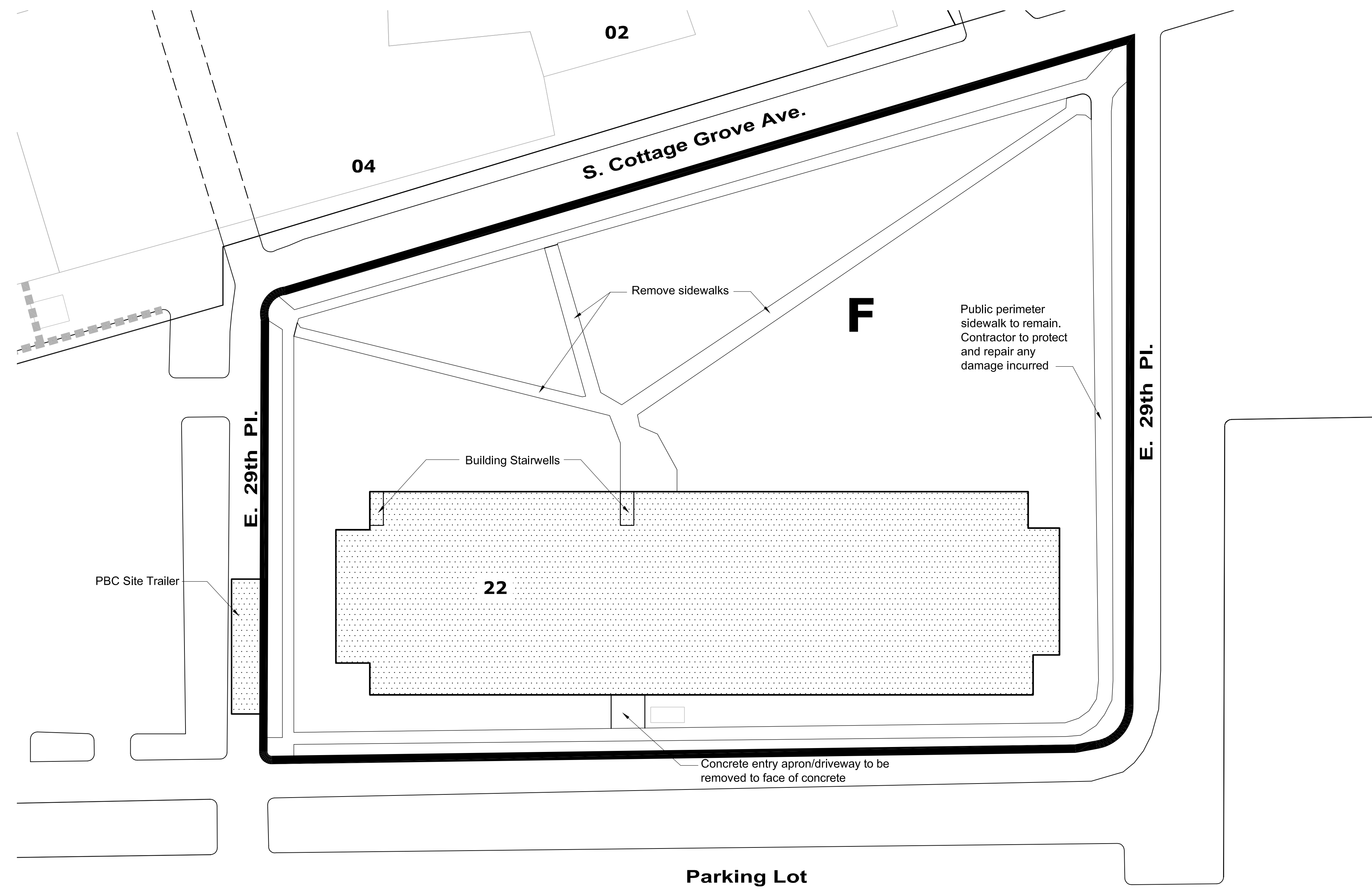
Project Title: **MICHAEL REESE HOSPITAL**  
2929 S. ELLIS AVE. CHICAGO, IL 60616

Drawing Title: **ENVIRONMENTAL GENERAL NOTES AND UST DETAIL SHEET**

Drawing Number

ENV-001

01 OF 01  
REV. 0



**1 HOSPITAL CAMPUS SITE PLAN**  
SCALE: 1"=40'

**GENERAL NOTES:**

- All public sidewalks and right-of-ways that are outside of the project site shall remain. If damaged during the demolition process, Contractor is responsible for repairing and restoring accordingly.
- The project site shall be kept in a clean and orderly fashion. All adjacent roadways and streets shall be kept clean by the Contractor.
- Contractor is responsible for maintaining security of the project site and controlling unauthorized personnel from entering the project site.
- Contractor shall maintain the integrity of the fence around the project site until final acceptance of the work. Remove and dispose of at final completion.
- Contractor shall remove all non-concrete materials including, but not limited to, glass, drywall, masonry, brick, wood frames, mechanical equipment, and window sills from the basements of Building No. 22 and tunnel prior to backfill operations. Only concrete in the form of walls or broken-up foundations and slabs to remain below grade after backfilling operations.
- Each Building Group Contractor is responsible for maintaining sufficient pathways or roads free and clear of dirt and snow to allow access to buildings within their group without creating a dangerous condition.
- All roadways and access routes to all building group construction limits shall be kept clean and free of dirt and snow.
- Contractor is required to provide all necessary security for Group F.

**DEMOLITION NOTES:**

- Building 22, Parking Structure, to be demolished
  - All associated surrounding structures (curbs, sidewalks, signage and sign posts, electrical cabinets, retaining walls, kiosks, bollards, etc.) shall be demolished.
  - Contractor shall be responsible for the protection of adjacent and surrounding parkway trees, landscaping, and all vegetation.
  - There shall be no excavation beyond that required to remove slabs and foundations above pile caps without authorization from the Commission Representative.
  - Demolished concrete shall be hauled from the building to an on site depository identified by the Commission Representative where it is to be crushed to CA 6 grade. This crushed concrete is to then be transported and compacted as backfill on the site as directed by the Commission Representative.
  - Contractor shall be responsible for locating and protecting all utilities from the building, both public and private.
  - Contractor is to include a list of building components including, but not limited to, Slabs, columns, facade panels, shear walls, etc.
- All utility disconnects to be coordinated and fees paid for by Contractor.
- The successful Contractor for Building No. 22 shall be responsible for cleaning and maintaining the site from leaves, dirt, debris, etc. at Group F.
- All demolition activities shall be performed in accordance with project specifications and contract.
- All concrete above the top of existing caissons and/or grade beams is to be removed.
- Grade site area within Group F to level of surrounding adjacent sidewalks.
- Contractor shall install a dust screen along north, west, and south sides of perimeter around Building No. 22. The screen shall extend 8'-0" minimum above the highest point being demolished.
- Contractor is required to protect the Commission Representative's site trailer and is responsible for the cost of any damage.

**BUILDINGS:**

- 01 - Administrative Service Center
- 02 - Baumgarten Pavilion
- 03 - Bensinger General Service Building
- 03a - Laundry Facility
- 04 - Blum Pavillion
- 05 - Cummings Research Pavilion
- 06 - Dreyfuss Research Labs
- 07 - Emergency Department/Entrance
- 08 - Florsheim Professional Building
- 09 - Florsheim Library
- 10 - Friend Pavilion
- 11 - Kaplan Pavilion
- 12 - Kaplan Surgical Wing
- 13 - Klein Women's Hospital
- 14 - KNB Building
- 15 - Kunstader Children's Hospital
- 16 - Laz Chapman Pathology Institute
- 17 - Levinson Building
- 18 - Linear Accelerator
- 20 - Mandel Clinic/Emergency Room
- 21 - Meyer House
- 22 - Parking Structure
- 23 - Power Plant
- 25 - Rothschild Center
- 26 - Siegel Institute
- 27 - Singer Pavilion
- 28 - Wexler Pavilion

**LEGEND:**

- Railroad
- 01 Building number
- A Building group
- Wall to be demolished
- Building group boundary
- Concrete surface to be removed

Rev	Descriptions	Date	By
1	ISSUED FOR PRICING	05/07/10	NA
2	REVISED	08/23/10	NA

Project Number:	Drawing Title:
Drawn By: MS	Date: 04-06-2009
Checked By: AA	Scale: MARKED AS ALL 24x36
File Path: P:\Projects\2009.01	

Project Title: **MICHAEL REESE HOSPITAL**  
2929 S. ELLIS AVE., CHICAGO, IL 60616

Drawing Title: **HOSPITAL CAMPUS SITE PLAN BUILDING 22 DEMOLITION**

Drawing Number: **A-002.22**

OF  
REV. -



FH#	LOCATION	DESCRIPTION	ELEVATION
FH2	E. SIDE OF COTTAGE GROVE APPROX EVEN WITH S. CURB LINE OF 30TH ST.	S. FLANGE BOLT	20.76
FH3	1ST HYD N. OF 30TH ON E. SIDE OF COTTAGE GROVE	SE. FLANGE BOLT	22.00
FH4	E. SIDE OF COTTAGE GROVE 1ST S. OF 29TH PL	SE. FLANGE BOLT	22.65

**DEMOLITION NOTES:**

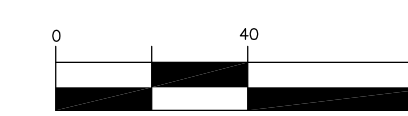
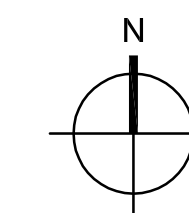
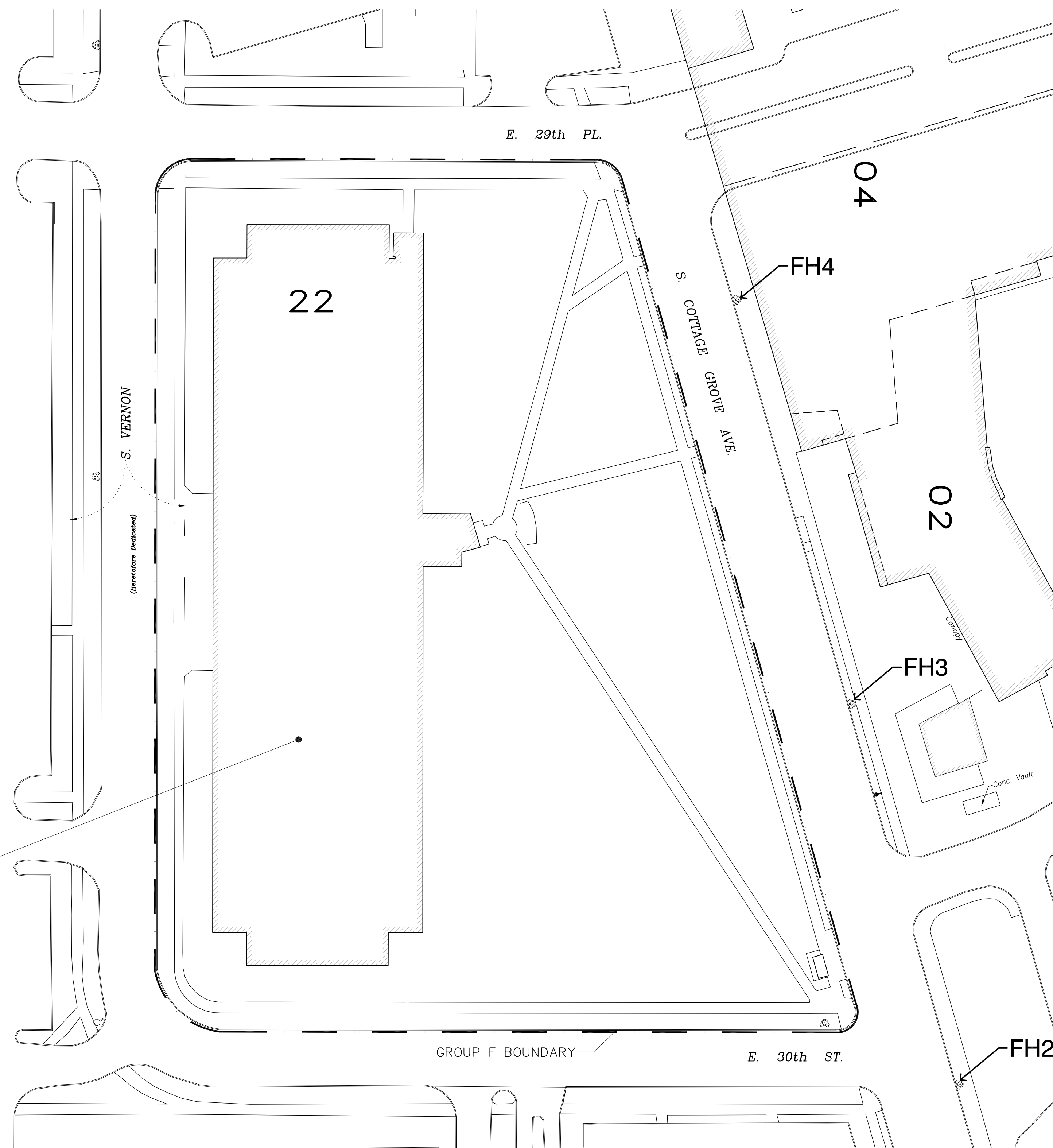
- Contractor shall excavate bermed material around Building 22 to facilitate demolition of the structure. Excavation shall be done in a manner to prevent accumulation of stormwater and groundwater.
- Stockpile excavated material in a location approved by Commission or their representative. Contractor is responsible for keeping the stockpiled materials which are classified differently separated within stockpiles. The Contractor shall place all stockpiled materials on 2 layers of 6 mil (minimum) thick plastic sheeting, cover with 6 mil plastic sheeting, and protect with 12-inch berms. The contractor shall not allow runoff from stockpiled materials to migrate to other areas, enter storm drains, or leave the site.
- Following the demolition of the structure, return the stockpiled materials to the general location from which they originated and use to establish required grade elevations on the site in accordance with project requirements.
- The contractor shall control dust during all excavation, stockpiling, and grading operations by all necessary means to minimize dust generation.

**BUILDING 22**

Following demolition, finished grade within the footprint of building 22 shall be 17.50 4'-6" below FH3

Note: the given finished grade is preliminary and may be revised as a result of stormwater calculations

**BUILDING GROUP F**



1 inch = 40 ft.

**PROJECT BENCHMARK**

CITY OF CHICAGO BENCHMARK NO. 482  
 EAST 31ST STREET & SOUTH RHODES AVENUE  
 10.5' NORTH OF THE NORTH LINE OF EAST 31ST PLACE  
 11.3' EAST OF THE WEST LINE OF SOUTH RHODES AVENUE  
 FIXED 1964, 1966. ELEVATION = 21.34'

Rev	By	Date	Descriptions
1	DRR	06/26/09	ISSUED FOR PBC REVIEW
2	NIA	08/23/10	ISSUED FOR ADDENDUM 1

Project Number:	Drawing File:
Drawn By: DRR, MS	Date: 04-06-2009
Checked By:	Scale: MARKED AS AT 24x36
File Path: P:\Projects\2009.01	

Project Title: **MICHAEL REESE HOSPITAL**  
 2929 S. ELLIS AVE. CHICAGO, IL 60616  
 Drawing Title: **ADDENDUM 1: GROUP F DEMOLITION ELEVATION GUIDE**

Drawing Number

**AD-01**

OF  
 REV. -