

UNIVERSITY OF KENTUCKY ALBERT B. CHANDLER HOSPITAL

LEXINGTON, KENTUCKY

OWNER

UNIVERSITY OF KENTUCKY

222 Peterson Service Building
Lexington, Kentucky 40506
Phone: 859-257-5088
Fax: 859-257-8626

CONSTRUCTION MANAGER

TURNER - HEALTHCARE
919 SOUTH LIMESTONE STREET
LEXINGTON, KENTUCKY 40508
PHONE: 859-255-0333
FAX: 859-255-0632

PROJECT TEAM

ARCHITECT OF RECORD

GBBN ARCHITECTS, INC.
325 WEST MAIN STREET, SUITE 280
LEXINGTON, KENTUCKY 40507
PHONE: 859-381-8787
FAX: 859-381-8873

GBBN ARCHITECTS, INC.
332 EAST 8TH STREET
CINCINNATI, OHIO 45202
PHONE: 513-241-8700
FAX: 513-241-8873

DEPUTY PROJECT MANAGER

A.M. KINNEY, INC.
150 EAST FOURTH STREET, SIXTH FLOOR
CINCINNATI, OHIO 45202
PHONE: 513-421-2265
FAX: 513-421-2264

NATIONAL HEALTHCARE ARCHITECT

ELLERBE BECKETT
800 LASALLE AVENUE
MINNEAPOLIS, MINNESOTA 55402
PHONE: 612-376-2200
FAX: 612-376-2505

STRUCTURAL ENGINEERS

THP LIMITED, INC.
100 EAST EIGHTH STREET
CINCINNATI, OHIO 45202
PHONE: 513-241-3222
FAX: 513-241-2981

MEP ENGINEERS

AFFILIATED ENGINEERS, INC.
5802 RESEARCH PARK BOULEVARD
MADISON, WISCONSIN 53719
PHONE: 608-238-2616
FAX: 608-238-2614

CONSULTING ENGINEERS-INFRASTRUCTURE

STAGGS + FISHER ENGINEERS
3264 LOCHNESS DRIVE
LEXINGTON, KENTUCKY 40517
PHONE: 859-271-3246
FAX: 859-271-3613

CIVIL ENGINEERS

QUEST ENGINEERS, INC.
2517 SIR BARTON WAY
LEXINGTON, KENTUCKY 40509
PHONE: 859-223-3755
FAX: 859-223-3150

SURVEYOR

FMSM ENGINEERS
1409 FORBES ROAD
LEXINGTON, KENTUCKY 40511
PHONE: 859-422-3039
FAX: 859-685-2943

LANDSCAPE ARCHITECT

TOWERS-GOLDE
85 WILLOW STREET
NEW HAVEN, CONNECTICUT 06511
PHONE: 203-773-1153
FAX: 203-865-6411

GEOTECHNICAL ENGINEERS

H.C. NUTTING COMPANY
611 LUNKEN PARK DRIVE
CINCINNATI, OHIO 45226
PHONE: 800-486-8070
FAX: 513-321-0294

COST ESTIMATING

BOYKEN INTERNATIONAL, INC.
400 NORTHRIDGE ROAD, SUITE 1200
ATLANTA, GEORGIA 30350
PHONE: 770-992-3210
FAX: 770-992-1489

LIGHTING CONSULTANT

PIVOTAL LIGHTING
5802 RESEARCH PARK BOULEVARD
MADISON, WISCONSIN 53719
PHONE: 608-238-2616
FAX: 608-238-2614

FOOD SERVICE CONSULTANT

ROBERT RIPPE ASSOCIATES, INC.
6117 BLUE CIRCLE DRIVE, SUITE 100
MINNEAPOLIS, MINNESOTA 55343
PHONE: 952-933-0313
FAX: 952-933-9661

MEDICAL EQUIPMENT CONSULTANT

LIFESTRUCTURES TECHNOLOGY PLANNING, LLC.
9365 COUNSELORS ROAD
INDIANAPOLIS, INDIANA 46240
PHONE: 317.819.2242
FAX: 317.819.7288

SIGNAGE AND WAYFINDING CONSULTANT

BEEGHLI BROWN
3379 WOODLYN HILLS DRIVE
ERLANGER, KENTUCKY 41018
PHONE: 859-344.6811
FAX: 859-344-6911

ACOUSTICS & VIBRATION CONSULTANT

CAMPANELLA ASSOCIATES
3021 RIDGEWOOD DRIVE
COLUMBUS, OHIO 43026
PHONE: 614-876-5108
FAX: 614-771-8740

HARDWARE CONSULTANT

CERTIFIED OPEN CONSULTANTS
817 WINCHESTER ROAD, SUITE 400
LEXINGTON, KENTUCKY 40505
PHONE: 859-231-0829
FAX: 859-231-0830

SECURITY CONSULTANT

SECURITY RISK MANAGEMENT CONSULTANTS, INC.
695 BRYDEN ROAD
COLUMBUS, OHIO 43205
PHONE: 614-224-3100
FAX: 614-224-3252



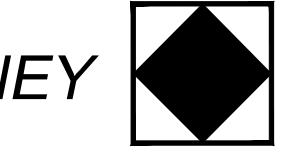
BID PACKAGE -3B - INFRASTRUCTURE

GBBN
architects

GBBN Architects Inc.
325 West Main Street Suite 280
Lexington, Kentucky 40507
t 859-381.8787
f 859-381.8873
www.gbbn.com

IN ASSOCIATION WITH

A.M. KINNEY



AND

ELLERBE BECKETT



CONSULTANT

UK

Construct Patient
Care Facility

UK # 2239.3B

BP - 3B

INFRASTRUCTURE

Disclaimer:

Due to the nature of electronic media, A. M. Kinney cannot warrant the accuracy of data contained in files transmitted electronically. Any modification or reuse of original or altered CADD Design materials by any entity without the review and written approval of A.M. Kinney shall be at the scale risk of said entity. Furthermore, said entity agrees to defend, indemnify, and hold A.M. Kinney harmless from any and all injuries, damages, losses, and expenses, including attorney's fees, arising out of any claim resulting from the modification or reuse of these materials.

Drawing Issue:

RECORD DRAWINGS

No.	Date	Description
1	02-15-07	CONTRACT DOCUMENT ISSUE
	08-21-09	RECORD DRAWINGS
RD-1	09-01-11	RECORD DRAWINGS

Drawing Title:

TITLE SHEET

GBBN Job No:

10247.04

Job No:

03350

CAD File:

ts.dwg

Scale:

NONE

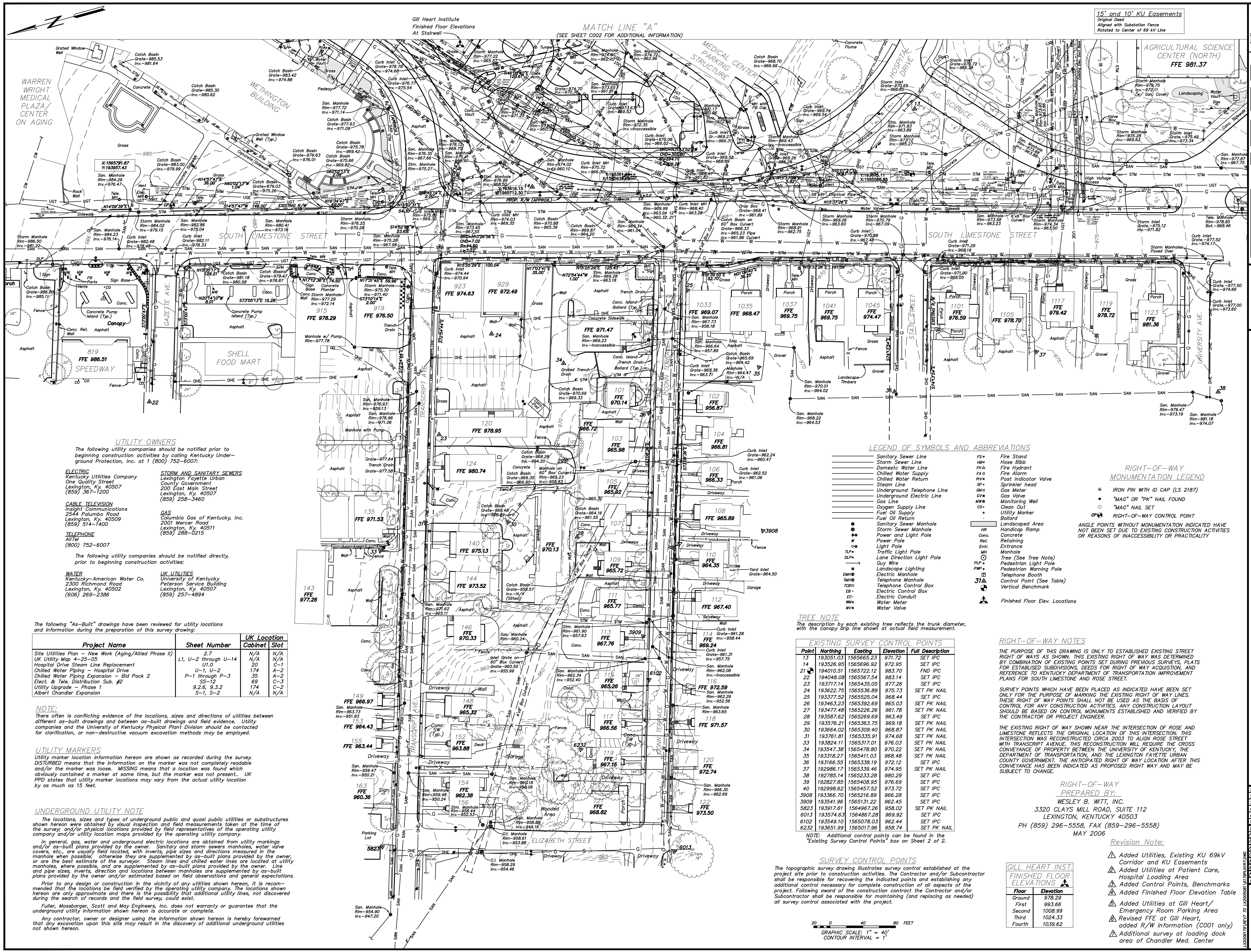
Date:

02-15-07

Sheet:

TS

15' and 10' KU Easements
Original Deed
Aligned with Substation Fence
Rotated to Center of 69 KV Line



MATCH LINE "A"
(SEE SHEET C002 FOR ADDITIONAL INFORMATION)

Gill Heart Institute
Finished Floor Elevations
At Stairwell

RIGHT-OF-WAY
MONUMENTATION LEGEND
● IRON PIN WITH ID CAP (LS 2187)
○ "MAG" OR "PK" NAIL FOUND
○ "MAG" NAIL SET
○ RIGHT-OF-WAY CONTROL POINT
ANGLE POINTS WITHOUT MONUMENTATION INDICATED HAVE NOT BEEN SET DUE TO EXISTING CONSTRUCTION ACTIVITIES OR REASONS OF INACCESSIBILITY OR PRACTICALITY

LEGEND OF SYMBOLS AND ABBREVIATIONS
Sanitary Sewer Line
Storm Sewer Line
Domestic Water Line
Chilled Water Supply
Chilled Water Return
Steam Line
Underground Telephone Line
Underground Electric Line
Gas Line
Oxygen Supply Line
Fuel Oil Supply Line
Fuel Oil Return
Sanitary Sewer Manhole
Storm Sewer Manhole
Power and Light Pole
Light Pole
Traffic Light Pole
Handicapped Light Pole
Guy Wire
Landscape Lighting
Electric Manhole
Telephone Manhole
Telephone Control Box
Electric Control Box
Water Meter
Water Valve
Fire Stand
Hose Bibb
Fire Hydrant
Fire Alarm
Post Indicator Valve
Sprinkler head
Gas Meter
Gas Valve
Monitoring Well
Clean Out
Utility Markers
Retaining Wall
Entrance
Manhole
Tree (See Tree Note)
Pedestrian Light Pole
Pedestrian Warning Pole
Telephone Booth
Control Point (See Table)
Vertical Benchmark
Finished Floor Elev. Locations

TREE NOTE
The description by each existing tree reflects the trunk diameter, with the canopy drip line shown at actual field measurement.

EXISTING SURVEY CONTROL POINTS

Point	Northing	Easting	Elevation	Full Description
13	193051.03	1565665.23	971.72	SET IPC
14	193526.95	1565696.92	972.95	SET IPC
21	194010.51	1565722.12	983.70	FND IPC
22	194048.08	1565567.54	983.14	SET IPC
23	193717.14	1565435.05	977.26	SET IPC
24	193622.75	1565536.89	975.73	SET PK NAIL
25	193377.52	1565525.04	968.44	SET IPC
26	193463.23	1565392.69	965.03	SET PK NAIL
27	193477.48	1565226.26	961.78	SET PK NAIL
28	193587.62	1565269.69	963.49	SET IPC
29	193576.21	1565363.75	969.18	SET PK NAIL
30	193664.02	1565309.40	968.87	SET PK NAIL
31	193761.01	1565335.40	974.68	SET PK NAIL
33	193824.11	1565317.01	976.03	SET PK NAIL
34	193547.38	1565478.80	970.22	SET PK NAIL
35	193318.27	1565411.03	968.48	SET PK NAIL
36	193166.55	1565338.19	972.12	SET IPC
37	192986.17	1565339.46	974.95	SET PK NAIL
38	192785.14	1565233.28	980.29	SET IPC
39	192872.85	1565408.95	976.69	SET IPC
40	192998.62	1565457.52	973.72	SET IPC
3908	193366.70	1565216.89	966.28	SET IPC
3909	193541.96	1565131.22	962.45	SET IPC
5823	193917.61	1564967.26	958.02	SET PK NAIL
6013	193574.63	1564867.28	969.92	SET IPC
6102	193549.10	1565078.03	962.44	SET IPC
6232	193651.99	1565017.96	958.74	SET PK NAIL

NOTE: Additional control points can be found in the "Existing Survey Control Points" box on Sheet 2 of 2.

SURVEY CONTROL POINTS
The topographic survey drawing illustrates survey control established at the project site prior to construction activities. The Contractor and/or Subcontractor shall be responsible for recovering the indicated points and establishing any additional control necessary for complete construction of all aspects of the project. Following award of the construction contract the Contractor and/or Subcontractor shall be responsible for maintaining (and replacing as needed) all survey control associated with the project.

GILL HEART INST.
FINISHED FLOOR ELEVATIONS

Floor	Elevation
Ground	978.29
First	993.66
Second	1008.99
Third	1024.33
Fourth	1039.62

GRAPHIC SCALE: 1" = 40'
CONTOUR INTERVAL = 1'

UTILITY OWNERS
The following utility companies should be notified prior to beginning construction activities by calling Kentucky Underground Protection, Inc. at 1 (800) 752-6007.

- ELECTRIC**
Kentucky Utilities Company
One Quality Street
Lexington, KY 40507
(859) 367-1200
- STORM AND SANITARY SEWERS**
Lexington Fayette Urban
County Government
200 East Main Street
Lexington, KY 40507
(859) 258-3460
- CABLE TELEVISION**
Insight Communications
2544 Palumbo Road
Lexington, KY 40509
(859) 514-1400
- GAS**
Columbia Gas of Kentucky, Inc.
2001 Mercer Road
Lexington, KY 40511
(859) 288-0215
- TELEPHONE**
Alltel
(800) 752-6007
- WATER**
Kentucky-American Water Co.
2300 Richmond Road
Lexington, KY 40502
(606) 269-2386
- UK UTILITIES**
University of Kentucky
Peterson Service Building
Lexington, KY 40507
(859) 257-4894

The following "As-Built" drawings have been reviewed for utility locations and information during the preparation of this survey drawing:

Project Name	Sheet Number	UK Location	Cabinet	Slot
Site Utilities Plan - New Work (Aging/Allied Phase II)	2.7	N/A	N/A	N/A
UK Utility Map 4-25-05	L1, U-2 through U-14	N/A	N/A	N/A
Hospital Drive Steam Line Replacement	U-1, U-2	N/A	C-1	N/A
Chilled Water Piping - Hospital Drive	U-1, U-2	N/A	A-2	N/A
Chilled Water Piping Expansion - Bid Pack 2	P-1 through P-3	N/A	A-2	N/A
Elect. & Tele. Distribution Sub. #2	SS-12	N/A	C-3	N/A
Utility Upgrade - Phase 1	9.2.6, 9.3.2	N/A	C-2	N/A
Albert Chandler Expansion	S-1, S-2	N/A	C-2	N/A

NOTE:
There often is conflicting evidence of the locations, sizes and directions of utilities between different as-built drawings and between as-built drawings and field evidence. Utility companies and the University of Kentucky Physical Plant Division should be contacted for clarification, or non-destructive vacuum excavation methods may be employed.

UTILITY MARKERS
Utility marker location information hereon are shown as recorded during the survey. DISTURBED means that the information on the marker was not completely readable and/or the marker was loose. MISSING means that a location was found which obviously contained a marker at some time, but the marker was not present. UK PRD states that utility marker locations may vary from the actual utility location by as much as 15 feet.

UNDERGROUND UTILITY NOTE
The locations, sizes and types of underground public and quasi public utilities or structures shown hereon were obtained by visual inspection and field measurements taken at the time of the survey; and/or physical locations provided by field representatives of the operating utility company and/or utility location maps provided by the operating utility company.

In general, gas, water and underground electric locations are obtained from utility markings and/or as-built plans provided by the owner. Sanitary and storm sewers manholes, water valve covers, etc., are usually field located, with inverts, pipe sizes and directions measured in the manhole when possible; otherwise they are supplemented by as-built plans provided by the owner, or are the best estimate of the survey. Steam lines and chilled water lines are located at utility manholes, where possible, and are supplemented by as-built plans provided by the owner. Line and pipe sizes, inverts, direction and locations between manholes are supplemented by as-built plans provided by the owner and/or estimated based on field observations and general expectations.

Prior to any design or construction in the vicinity of any utilities shown hereon, it is recommended that the locations be field verified by the operating utility company. The locations shown hereon are only approximate and there is the possibility that additional utility lines, not discovered during the search of records and the field survey, could exist.

Fuller, Mossbarger, Scott and May Engineers, Inc. does not warrant or guarantee that the underground utility information shown hereon is accurate or complete.

Any contractor, owner or designer using the information shown hereon is hereby forewarned that any excavation upon this site may result in the discovery of additional underground utilities not shown hereon.

Fuller, Mossbarger, Scott and May
ENGINEERS

TOPOGRAPHIC SURVEY
PATIENT CARE FACILITY
UNIVERSITY OF KENTUCKY MEDICAL CENTER
LEXINGTON, FAYETTE COUNTY, KENTUCKY

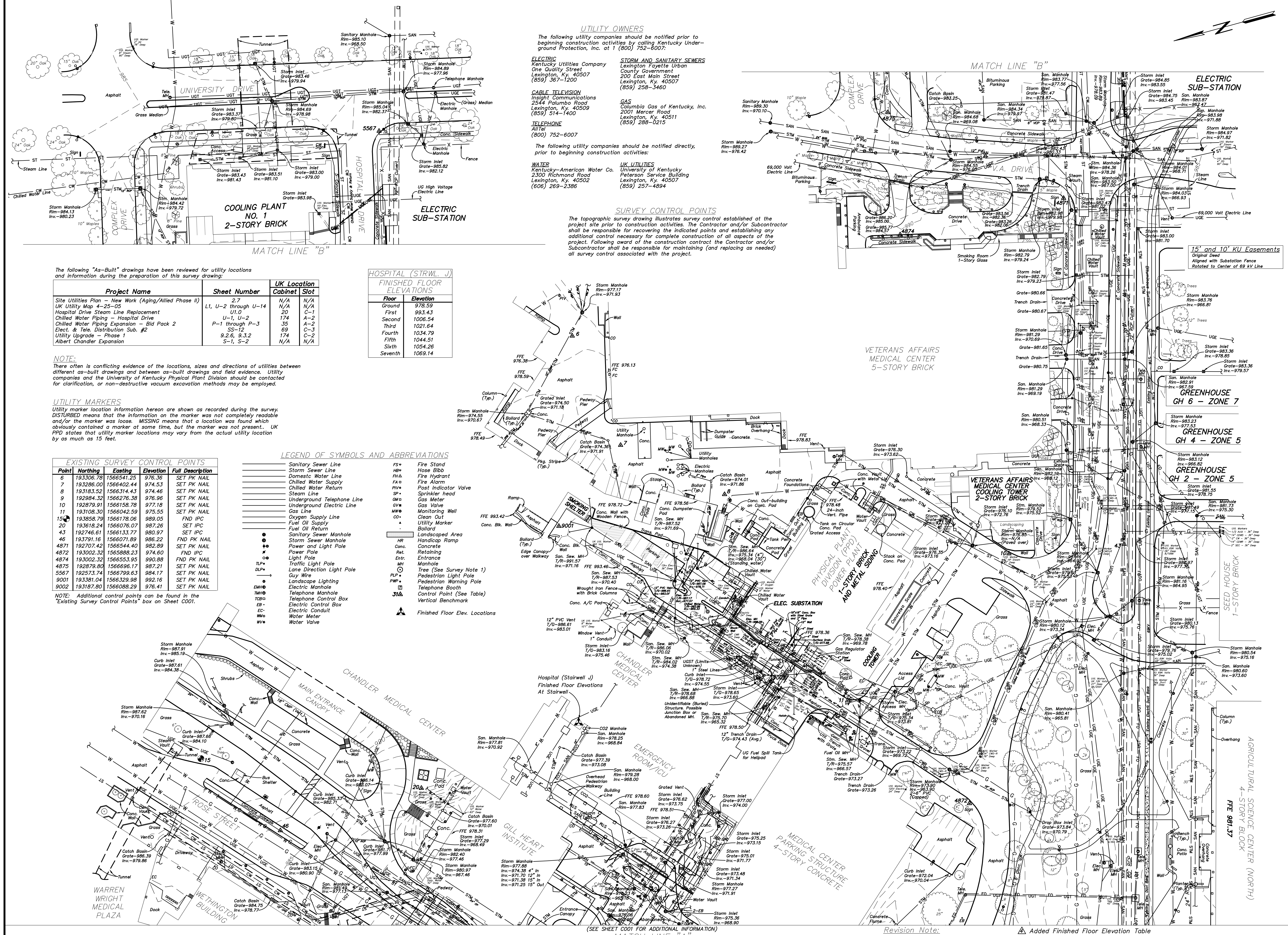
PROJECT NO. LY2005081
DATE: AUGUST 23, 2006
DRAWN BY: JRP/BSG
CHECKED BY: BPL
SCALE: 1"=40'
REVISED

PREPARED BY:
WESLEY B. WITT, INC.
3320 CLAYS MILL ROAD, SUITE 112
LEXINGTON, KENTUCKY 40503
PH (859) 296-5558, FAX (859)-296-5558
MAY 2006

Revision Note:
Added Utilities, Existing KU 69KV Corridor and KU Easements
Added Utilities at Patient Care, Hospital Loading Area
Added Control Points, Benchmarks
Added Finished Floor Elevation Table
Added Utilities at Gill Heart/Emergency Room Parking Area
Revised FFE at Gill Heart, added R/W information (C001 only)
Additional survey at loading dock area of Chandler Med. Center

September 1, 2005
November 29, 2005
January 23, 2006
March 24, 2006
April 5, 2006
May 24, 2006
October 27, 2006

SHEET
C001
08-21-09 RECORD DRAWING



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ELECTRIC
 Kentucky Utilities Company
 Lexington Fayette Urban County Government
 200 East Main Street
 Lexington, KY 40507
 (859) 367-1200

CABLE TELEVISION
 Insight Communications
 2544 Palumbo Road
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TELEPHONE
 AT&T
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 2001 Mercer Road
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Hospital Drive Steam Line Replacement	U1.0	C-1		
Chilled Water Piping - Second Drive	U-1, U-2	A-2		
Chilled Water Piping Expansion - Bid Pack 2	P-1 through P-3	A-2		
Elect. & Tele. Distribution Sub. #2	SS-12	C-3		
Utility Upgrade - Phase 1	9.2.6, 9.3.2	C-2		
Albert Chandler Expansion	S-1, S-2	N/A	N/A	N/A

HOSPITAL (STRWL. J)

Floor	Elevation
Ground	978.59
First	993.43
Second	1006.54
Third	1021.64
Fourth	1034.79
Fifth	1044.51
Sixth	1054.26
Seventh	1069.14

NOTE:
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EXISTING SURVEY CONTROL POINTS

Point	Northing	Easting	Elevation	Full Description
6	193306.78	1566541.25	976.36	SET PK NAIL
7	193286.00	1566402.44	974.53	SET PK NAIL
8	193163.52	1566276.33	974.46	SET PK NAIL
9	192994.32	1566276.33	976.96	SET PK NAIL
10	192879.91	1566158.78	977.18	SET PK NAIL
11	193108.30	1566042.59	975.55	SET PK NAIL
12	193858.79	1566178.06	989.05	FND IPC
20	193618.24	1566076.07	987.26	SET IPC
43	192746.61	1566133.77	980.97	SET IPC
46	193791.16	1566071.89	986.22	FND PK NAIL
4871	192707.42	1566544.40	962.89	SET PK NAIL
4872	193002.32	1566588.23	974.60	FND IPC
4874	193002.32	1566553.95	990.88	FND PK NAIL
4875	192879.90	1566696.17	987.21	SET PK NAIL
5567	192573.74	1566799.63	984.17	SET PK NAIL
9001	193381.04	1566329.98	992.16	SET PK NAIL
9002	193187.80	1566088.29	976.41	SET PK NAIL

NOTE: Additional control points can be found in the "Existing Survey Control Points" box on Sheet C001.

LEGEND OF SYMBOLS AND ABBREVIATIONS

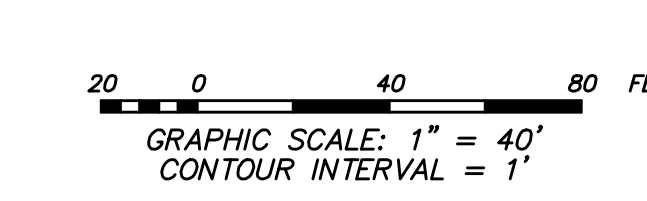
- Sanitary Sewer Line
- Fire Stand
- Fire Hydrant
- Chilled Water Return
- Steam Line
- Underground Telephone Line
- Underground Electric Line
- Oxygen Supply Line
- Fuel Oil Supply
- Fuel Oil Return
- Sanitary Sewer Manhole
- Storm Sewer Manhole
- Power and Light Pole
- Power Pole
- Light Pole
- Traffic Light Pole
- Lane Direction Light Pole
- Guy Wire
- Landscape Lighting
- Electric Manhole
- Telephone Manhole
- Telephone Control Box
- Electric Control Box
- Electric Conduit
- Water Meter
- Water Valve
- Fire Stand
- Hose Bibb
- Fire Hydrant
- Fire Alarm
- Post Indicator Valve
- Sprinkler head
- Gas Meter
- Gas Valve
- Monitoring Well
- Clean Out
- Utility Marker
- Ballard
- Landscape Area
- Handicap Ramp
- Concrete
- Retaining Wall
- Entrance
- Manhole
- Tree (See Survey Note 1)
- Pedestrian Light Pole
- Pedestrian Warning Pole
- Telephone Booth
- Control Point (See Table)
- Vertical Benchmark
- Finished Floor Elev. Locations

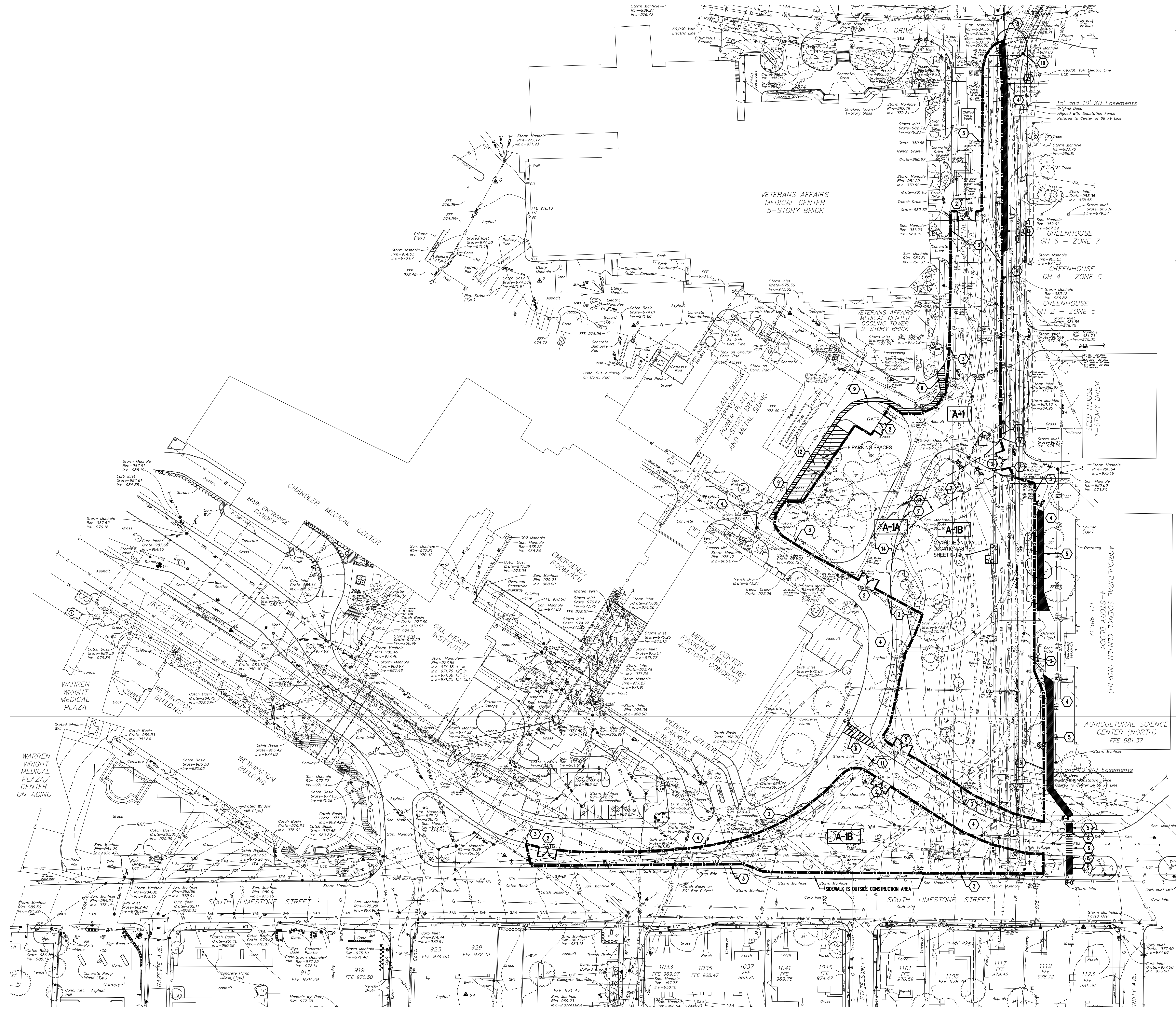
NOTE:
 Refer to Sheet C001 for Underground Utility Note.

TREE NOTE
 The description by each existing tree reflects the trunk diameter, with the canopy drip line shown at actual field measurement.

Revision Note:

- Added Utilities, Existing KU 69kV Corridor and KU Easements
- Added Utilities at Patient Care, Hospital Loading Area
- Added Control Points, Benchmarks
- Added Finished Floor Elevation Table
- Added Utilities at Gill Heart/Emergency Room Parking Area
- Revised FFE at Gill Heart, added R/W information (C001 only)
- Additional survey at loading dock area of Chandler Med. Center





- GENERAL NOTES:**
- A. THE SITE, INDICATED BY THE LIMITS OF THE CONSTRUCTION FENCE, WILL BE USED BY TRADE CONTRACTORS FOR ALL BID PACKAGES.
 - B. THE INTENT OF THE SITE LOGISTICS DRAWING IS TO DIRECT THE CONTRACTORS IN AND OUT OF THE SITE, AND TO DESCRIBE THE PHYSICAL CONDITIONS OF THE SITE AT THE TIME OF BIDDING.
 - C. THE LIMITS OF THE SITE AVAILABLE TO THE CONTRACTORS IS INDICATED BY THE LOCATION OF THE CONSTRUCTION FENCE. ALL WORK OUTSIDE THE LIMITS OF THE CONSTRUCTION FENCE, SHALL BE PROPERLY PROTECTED IN ACCORDANCE WITH THE SPECIFICATIONS AND SHOULD BE COORDINATED WITH THE CONSTRUCTION MANAGER.
 - D. REQUIREMENTS FOR ROAD CLOSURES AND TEMPORARY CONSTRUCTION WORK AREAS WILL NEED TO BE COORDINATED WITH THE CONSTRUCTION MANAGER.
 - E. MAINTAIN 20-FEET CLEAR WIDTH FOR EMERGENCY ACCESS THROUGH THE CONSTRUCTION AREA.
 - F. PARKING ON SITE IS PROHIBITED - NO EXCEPTIONS.
 - G. COORDINATE TRAILER LOCATIONS AND STAGING AREAS WITH THE CONSTRUCTION MANAGER.
 - H. ACCESS AND EGRESS TO AND FROM THE SITE WILL NEED TO BE COORDINATED WITH THE CONSTRUCTION MANAGER.
 - I. PROTECT AND MAINTAIN ACCESS TO FIRE HYDRANTS DURING ALL PHASES OF PROJECT.
 - J. PROTECT ALL EXISTING UTILITIES.

- KEY NOTES:**
1. CONSTRUCTION TRAFFIC ACCESS TO THE SITE.
 2. CONSTRUCTION GATE. LOCKABLE CHAIN LINK, 12 FEET WIDE, 8 FEET TALL. COORDINATE TALL REQUIREMENTS WITH CONSTRUCTION MANAGER.
 3. 8 FEET TALL CHAIN LINK CONSTRUCTION FENCE WITH DUST CONTROL FABRIC. (---)
 4. EMERGENCY VEHICLE ACCESS ROUTE. MAINTAIN 20-FEET CLEAR WIDTH FOR EMERGENCY VEHICLE ACCESS AT ALL TIMES.
 5. NEW TEMPORARY CONCRETE SIDEWALK.
 6. NEW TEMPORARY PAINTED CROSSWALK MARKINGS.
 7. NEW CURB CUT AND PREPARE SUBSTRATE FOR NEW TEMPORARY ROAD.
 8. PROVIDE ADA ACCESSIBLE HANDICAP CURB RAMP WHERE SHOWN.
 9. NEW TEMPORARY PAINTED WALK PATH MARKINGS. (6'-0" WIDE MINIMUM OR MEET WIDTH OF EXISTING SIDEWALK AS SHOWN)
 10. CORRECT GRADE DEVIATION ("HUMP") AT EXISTING TEMPORARY ROAD CONNECTION WITH V.A. DRIVE.
 11. REMOVE EXISTING CROSSWALK MARKING.
 12. TEMPORARY PARKING SPACES FOR V.A.M.C. PERSONNEL.
 13. NEW TEMPORARY SIDEWALK EXTENSION (MATCH EXISTING).
 14. CONSTRUCTION OF TEMPORARY ROAD DURING THIS PHASE.

GBBN
architects

GBBN Architects Inc.
325 West Main Street Suite 280
Lexington, Kentucky 40507
t 859.381.8783
f 859.381.8875
www.gbbn.com

IN ASSOCIATION WITH

A.M. KINNEY

AND

ELLERBE BECKET

CONSULTANT

U.K.

Construct Patient
Care Facility
UK # 2239.3B

BP - 3B
INFRASTRUCTURE

Drawing Issue:

RECORD DRAWINGS

No.	Date	Description
1	02.15.07	CONTRACT DOCUMENTS ISSUE
	8/21/09	RECORD DRAWINGS
RD-1	09-01-11	RECORD DRAWINGS

Drawing Title:

SITE LOGISTICS

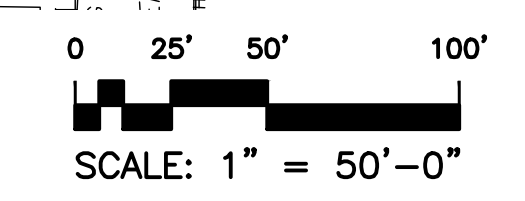
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Scale:	AS NOTED
Date:	02.15.07

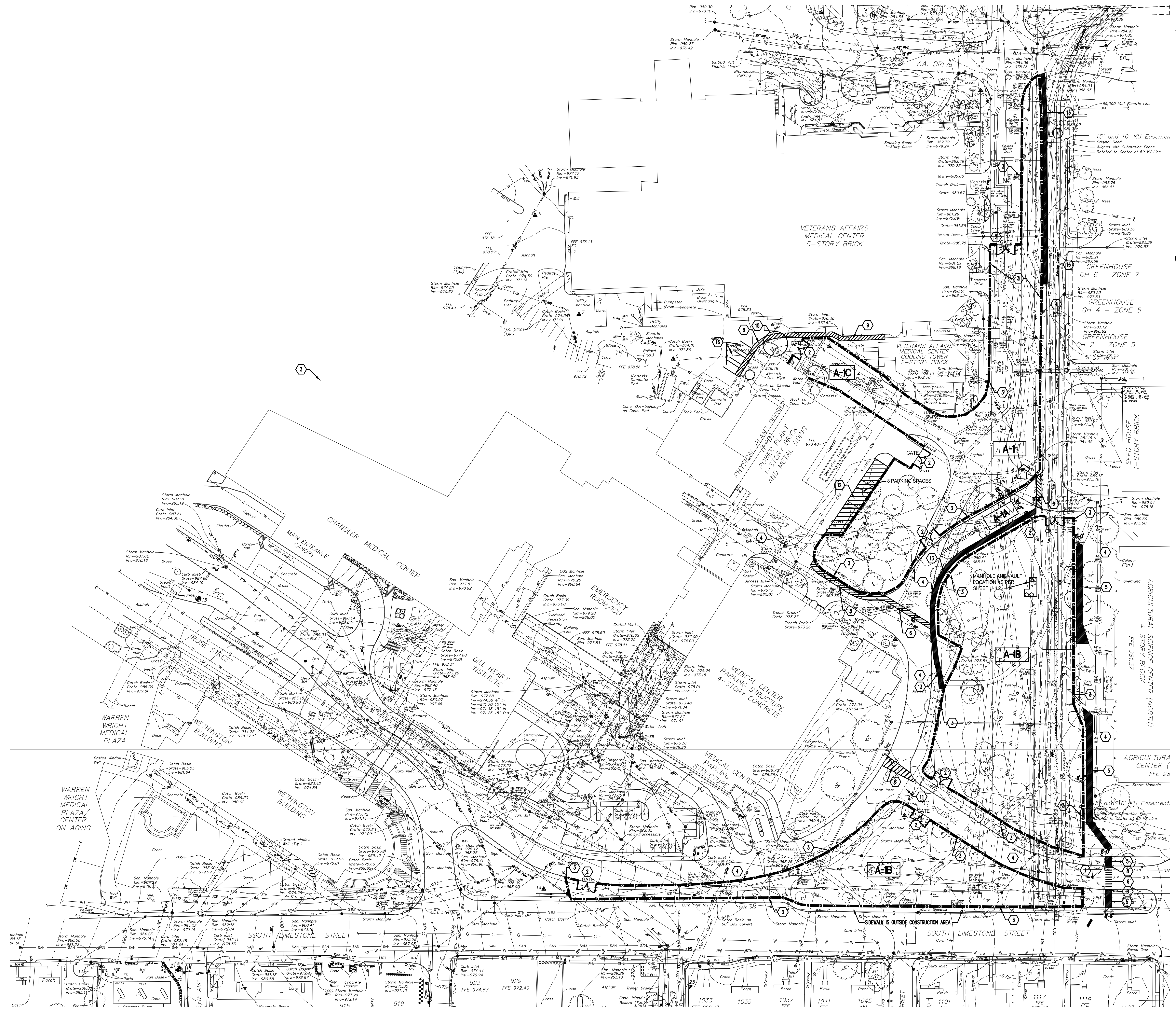
PRELIMINARY
NOT FOR
CONSTRUCTION

SL001

SITE LOGISTICS PLAN
SCALE: 1" = 50'-0"

BID PACKAGE #3B
CONSTRUCTION TIME FRAME: APRIL 2007 TO MID-MAY 2007





- GENERAL NOTES:**
- A. THE SITE, INDICATED BY THE LIMITS OF THE CONSTRUCTION FENCE, WILL BE USED BY TRADE CONTRACTORS FOR ALL BID PACKAGES.
 - B. THE INTENT OF THE SITE LOGISTICS DRAWING IS TO DIRECT THE CONTRACTORS IN AND OUT OF THE SITE, AND TO DESCRIBE THE PHYSICAL CONDITIONS OF THE SITE AT THE TIME OF BIDDING.
 - C. THE LIMITS OF THE SITE AVAILABLE TO THE CONTRACTORS IS INDICATED BY THE LOCATION OF THE CONSTRUCTION FENCE. ALL WORK OUTSIDE THE LIMITS OF THE CONSTRUCTION FENCE, SHALL BE PROPERLY PROTECTED IN ACCORDANCE WITH THE SPECIFICATIONS AND SHOULD BE COORDINATED WITH THE CONSTRUCTION MANAGER.
 - D. REQUIREMENTS FOR ROAD CLOSURES AND TEMPORARY CONSTRUCTION WORK AREAS WILL NEED TO BE COORDINATED WITH THE CONSTRUCTION MANAGER.
 - E. MAINTAIN 20-FOOT CLEAR WIDTH FOR EMERGENCY ACCESS THROUGH THE CONSTRUCTION AREA.
 - F. PARKING ON SITE IS PROHIBITED - NO EXCEPTIONS.
 - G. COORDINATE TRAILER LOCATIONS AND STAGING AREAS WITH THE CONSTRUCTION MANAGER.
 - H. ACCESS AND EGRESS TO AND FROM THE SITE WILL NEED TO BE COORDINATED WITH THE CONSTRUCTION MANAGER.
 - I. PROTECT AND MAINTAIN ACCESS TO FIRE HYDRANTS DURING ALL PHASES OF PROJECT.
 - J. PROTECT ALL EXISTING UTILITIES.

- KEY NOTES:**
1. CONSTRUCTION TRAFFIC ACCESS TO THE SITE.
 2. CONSTRUCTION GATE. LOCKABLE, CHAIN LINK, 12 FEET WIDE, 8 FEET TALL. COORDINATE LOCK REQUIREMENTS WITH CONSTRUCTION MANAGER.
 3. 8 FEET TALL CHAIN LINK CONSTRUCTION FENCE WITH DUST CONTROL FABRIC. (---)
 4. EMERGENCY VEHICLE ACCESS ROUTE. MAINTAIN 20-FOOT CLEAR WIDTH FOR EMERGENCY VEHICLE ACCESS AT ALL TIMES.
 5. TEMPORARY CONCRETE SIDEWALK.
 6. NEW TEMPORARY PAINTED CROSSWALK MARKINGS.
 7. NEW CURB CUT AND PREPARE SUBSTRATE FOR NEW TEMPORARY ROAD.
 8. ADA ACCESSIBLE HANDICAP CURB RAMP WHERE SHOWN.
 9. NEW TEMPORARY PAINTED WALK PATH MARKINGS. (6'-0" WIDE MINIMUM OR MEET WIDTH OF EXISTING SIDEWALK AS SHOWN)
 10. CORRECT GRADE DEVIATION ("HUMP") AT EXISTING TEMPORARY ROAD CONNECTION WITH V.A. DRIVE.
 11. REMOVE EXISTING CROSSWALK MARKING.
 12. TEMPORARY PARKING SPACES FOR V.A.M.C. PERSONNEL.
 13. TEMPORARY SIDEWALK EXTENSION (MATCH EXISTING).
 14. CONSTRUCTION OF TEMPORARY ROAD DURING THIS PHASE.
 15. PATCH EXISTING ASPHALT PAVING.
 16. RELOCATE (3) THREE V.A.M.C. HANDICAP PARKING SPACES. (PROVIDE TRAFFIC AND PEDESTRIAN PATH STRIPING)

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IN ASSOCIATION WITH

A.M. KINNEY

AND

ELLERBE BECKET

CONSULTANT

UK

Construct Patient
Care Facility
UK # 2239.3B

BP - 3B
INFRASTRUCTURE

Drawing Title:

RECORD DRAWINGS

No.	Date	Description
1	02.15.07	CONTRACT DOCUMENTS ISSUE
	8/21/09	RECORD DRAWINGS
RO-1	09-01-11	RECORD DRAWINGS

Drawing Title:

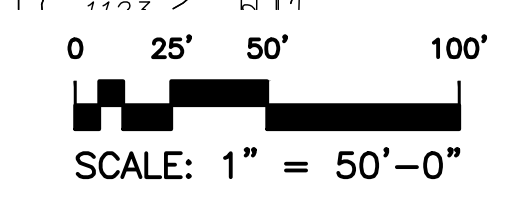
SL002 SITE LOGISTICS

Job No:	10300
CAD File:	
Scale:	AS NOTED
Date:	02.15.07

PRELIMINARY NOT FOR CONSTRUCTION

BID PACKAGE #3B
CONSTRUCTION TIME FRAME: MID-MAY 2007 TO EARLY SEPT. 2007

SITE LOGISTICS PLAN
SCALE: 1" = 50'-0"



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SL002



- GENERAL NOTES:**
- THE SITE, INDICATED BY THE LIMITS OF THE CONSTRUCTION FENCE, WILL BE USED BY TRADE CONTRACTORS FOR ALL BID PACKAGES.
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 - MAINTAIN 20-FOOT CLEAR WIDTH FOR EMERGENCY ACCESS THROUGH THE CONSTRUCTION AREA.
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- KEY NOTES:**
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 - CONSTRUCTION GATE. LOCKABLE, CHAIN LINK, 12 FEET WIDE, 8 FEET TALL. COORDINATE LOCK REQUIREMENTS WITH CONSTRUCTION MANAGER.
 - 8 FEET TALL CHAIN LINK CONSTRUCTION FENCE WITH DUST CONTROL FABRIC. (---)
 - EMERGENCY VEHICLE ACCESS ROUTE. MAINTAIN 20-FOOT CLEAR WIDTH FOR EMERGENCY VEHICLE ACCESS AT ALL TIMES.
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 - NEW CURB CUT AND PREPARE SUBSTRATE FOR NEW TEMPORARY ROAD.
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 - TEMPORARY PAINTED WALK PATH MARKINGS. (6"-0" WIDE MINIMUM OR MEET WIDTH OF EXISTING SIDEWALK AS SHOWN)
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 - RELOCATE (3) THREE V.A.M.C. HANDICAP PARKING SPACES. (PROVIDE TRAFFIC AND PEDESTRIAN PATH STRIPING)

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INFRASTRUCTURE

Drawing Title:

RECORD DRAWINGS

No.	Date	Description
1	02.15.07	CONTRACT DOCUMENTS ISSUE
	8/21/09	RECORD DRAWINGS
RD-1	09-01-11	RECORD DRAWINGS

Drawing Title:

SL003 SITE LOGISTICS

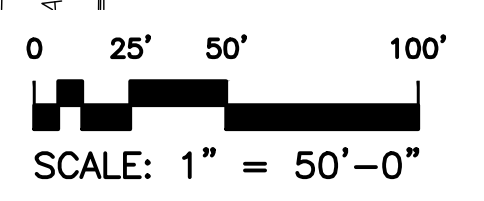
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Date:	02.15.07

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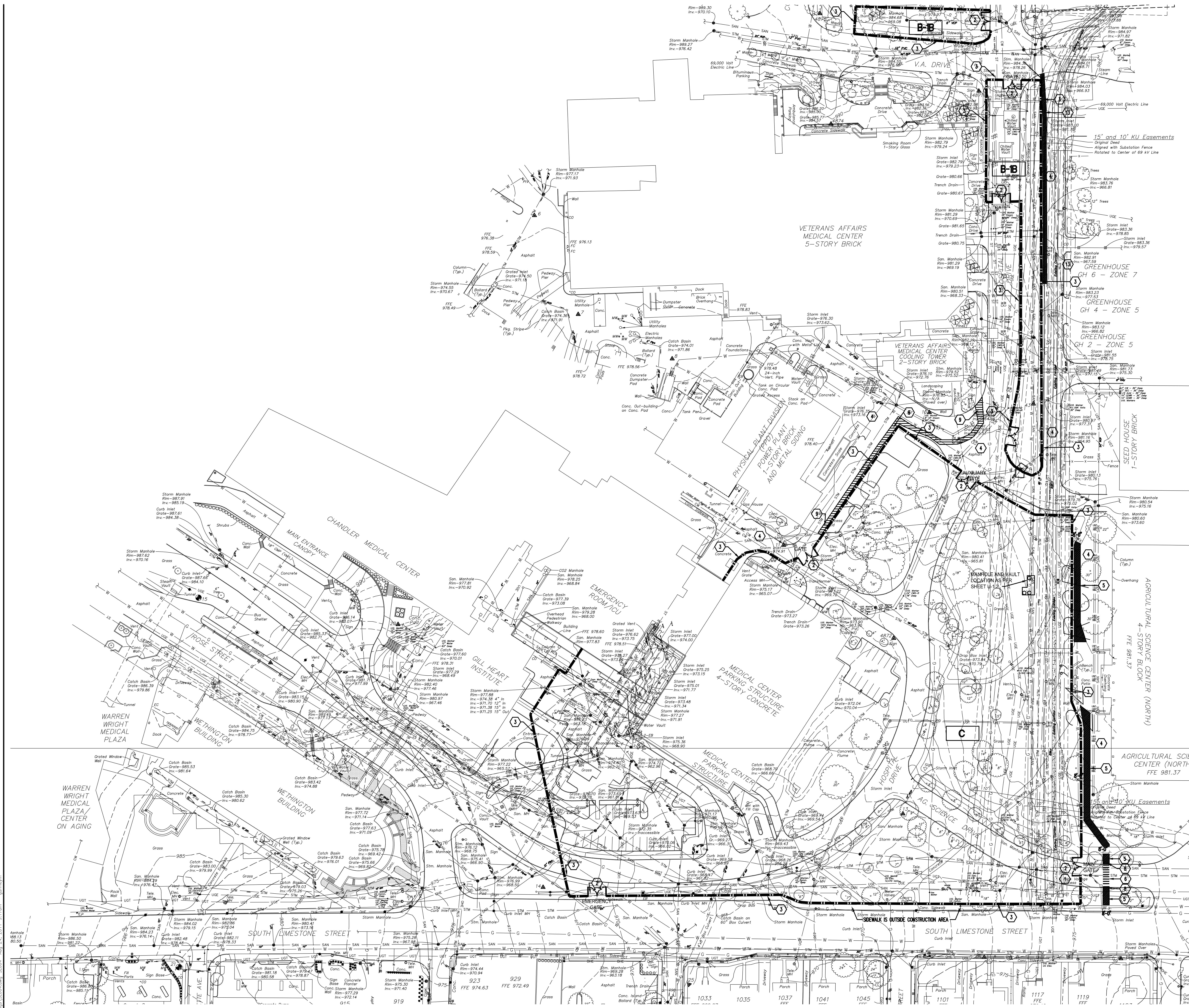
SL003

SITE LOGISTICS PLAN
SCALE: 1" = 50'-0"

BID PACKAGE #3B
CONSTRUCTION TIME FRAME: SEPT. 2007 TO MID-OCT. 2007



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- GENERAL NOTES:**
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- KEY NOTES:**
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 - CONSTRUCTION GATE, LOCKABLE, CHAIN LINK, 12 FEET WIDE, 8 FEET TALL, COORDINATE TALL REQUIREMENTS WITH CONSTRUCTION MANAGER.
 - 8 FEET TALL CHAIN LINK CONSTRUCTION FENCE WITH DUST CONTROL FABRIC. (---)
 - EMERGENCY VEHICLE ACCESS ROUTE. MAINTAIN 20-FOOT CLEAR WIDTH FOR EMERGENCY VEHICLE ACCESS AT ALL TIMES.
 - TEMPORARY CONCRETE SIDEWALK.
 - TEMPORARY PAINTED CROSSWALK MARKINGS.
 - NEW CURB CUT AND PREPARE SUBGRADE FOR NEW TEMPORARY ROAD.
 - ADA ACCESSIBLE HANDICAP CURB RAMP WHERE SHOWN.
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1	02.15.07	CONTRACT DOCUMENTS ISSUE
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RD-1	09-01-11	RECORD DRAWINGS

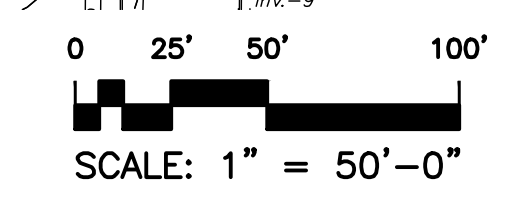
SITE LOGISTICS

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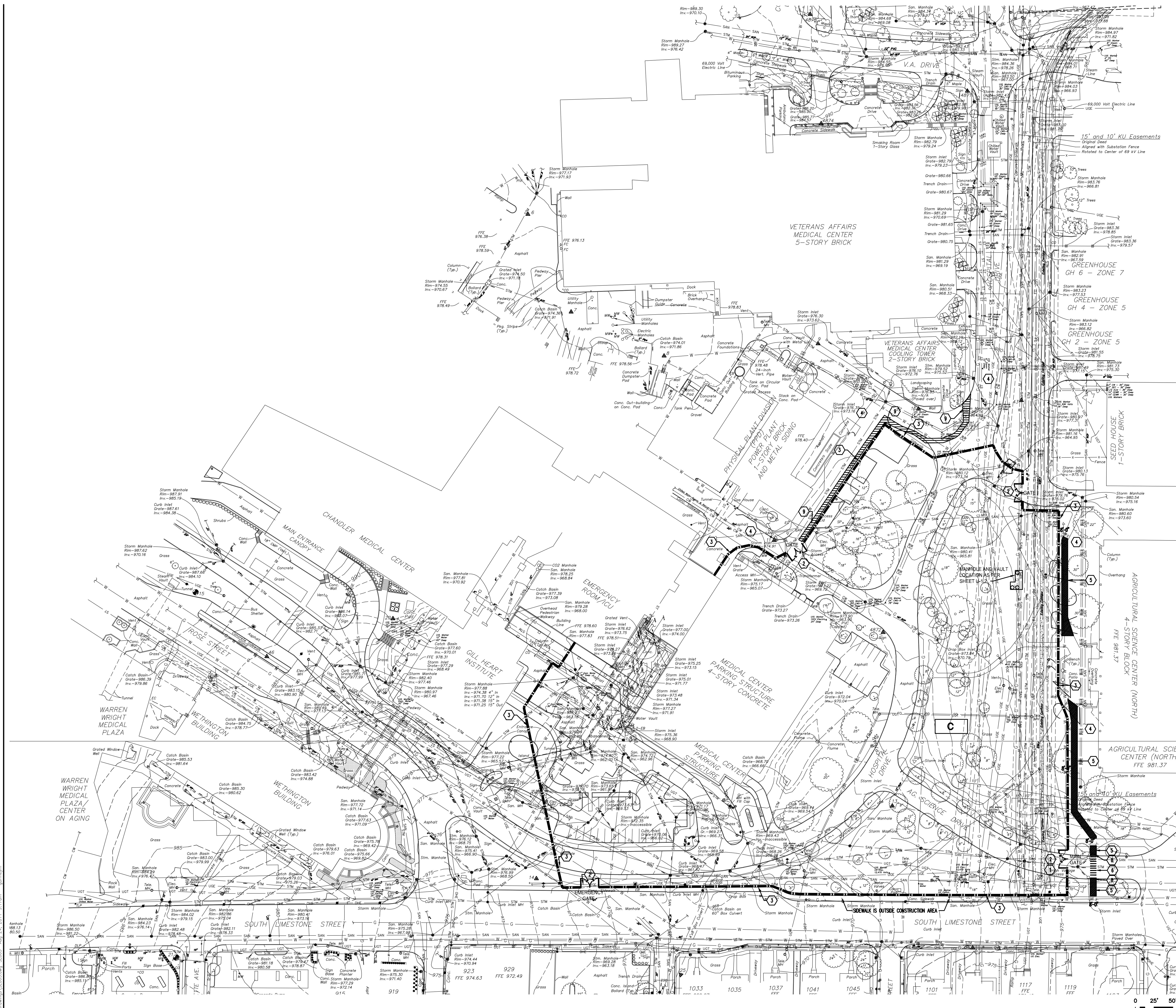
**PRELIMINARY
NOT FOR
CONSTRUCTION**

SITE LOGISTICS PLAN
SCALE: 1" = 50'-0"

BID PACKAGE #3B
CONSTRUCTION TIME FRAME: MID-OCT. 2007 TO MID- NOV. 2007



SL004





DRAWING INDEX

TS TITLE SHEET

SURVEY
C-001 TOPOGRAPHIC SURVEY
C-002 TOPOGRAPHIC SURVEY

SITE LOGISTICS
SL-001 SITE LOGISTICS
SL-002 SITE LOGISTICS
SL-003 SITE LOGISTICS
SL-004 SITE LOGISTICS
SL-005 SITE LOGISTICS

ARCHITECTURAL
A0-0.0 INFRASTRUCTURE SITE MAP AND DRAWING INDEX
A2-0.1 ARCHITECTURAL COOLING PLANT #3 PLANS

CIVIL
C-100 CIVIL STORM SEWER PLAN & DETAILS
C-200 CIVIL STORM PROFILES & DETAILS

LANDSCAPE
L-101 LANDSCAPE OVERALL CONTEXT PLAN
L-201 LANDSCAPE PREPARATORY PROTECTION PLAN
L-301A LANDSCAPE LAYOUT PLAN
L-301B LANDSCAPE LAYOUT PLAN
L-401A LANDSCAPE GRADING PLAN
L-401B LANDSCAPE GRADING PLAN
L-702 LANDSCAPE DETAILS

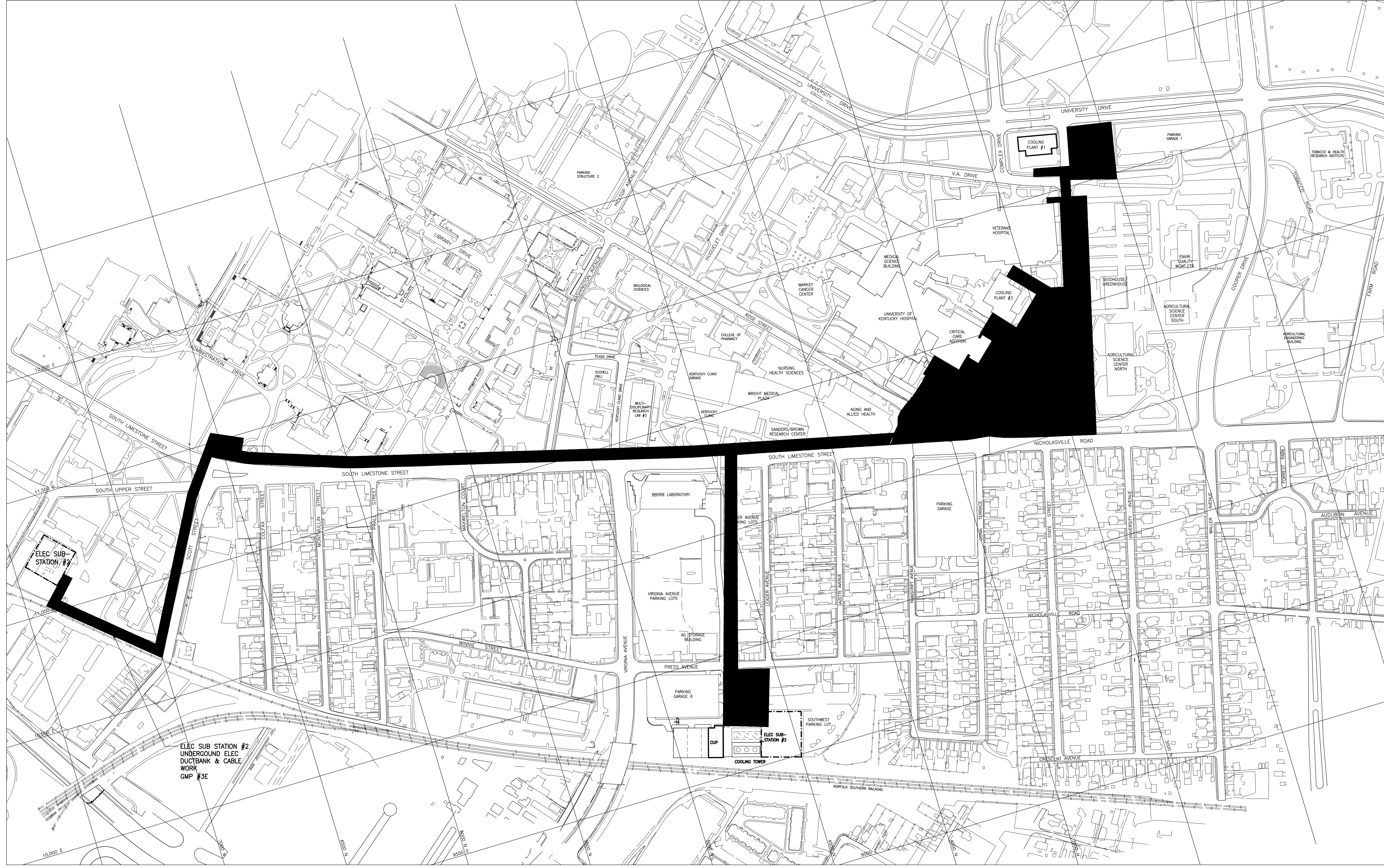
STRUCTURAL
S0-1.1 STRUCTURAL HOSPITAL DRIVE UTILITY TUNNEL PLAN
S0-1.2 STRUCTURAL HOSPITAL DRIVE UTILITY TUNNEL ENLARGED PLANS & NOTES
S0-1.3 STRUCTURAL HOSPITAL DRIVE UTILITY TUNNEL ELEVATIONS
S0-2.1 STRUCTURAL HOSPITAL DRIVE UTILITY TUNNEL SECTIONS AND DETAILS
S0-2.2 STRUCTURAL HOSPITAL DRIVE UTILITY TUNNEL SECTIONS AND DETAILS
S0-2.3 STRUCTURAL HOSPITAL DRIVE UTILITY TUNNEL PIPE SUPPORT DETAILS
S0-3.1 STRUCTURAL HOSPITAL DRIVE BOX CULVERT AND TANK FOUNDATION PLANS
S0-3.2 STRUCTURAL HOSPITAL DRIVE BOX CULVERT AND TANK FOUNDATION DETAILS
S2-1.0 STRUCTURAL COOLING PLANT #3 FIRST FLOOR PLAN AND SECTIONS
S2-1.1 STRUCTURAL COOLING PLANT #3 MISCELLANEOUS DETAILS

MISCELLANEOUS
ME-1.1 MECHANICAL/ ELECTRICAL LEGEND

UTILITIES
U-0.1 SITE UTILITIES PLAN HOSPITAL DRIVE EAST-DEMOLITION
U-0.2 SITE UTILITIES PLAN HOSPITAL DRIVE WEST-DEMOLITION
U-0.3 SITE UTILITIES PLAN PRIMARY CARE DEMOLITION
U-1.0 SITE UTILITIES PLAN OVERVIEW
U-1.1 SITE UTILITIES PLAN HOSPITAL DRIVE EAST-NEW WORK
U-1.2 SITE UTILITIES PLAN HOSPITAL DRIVE WEST-NEW WORK
U-1.3 SITE UTILITIES PLAN PRIMARY CARE NEW WORK
U-1.4 SITE UTILITIES PLAN SUBSTATION #2 NEW WORK
U-1.5 SITE UTILITIES PLAN HOSPITAL DRIVE SOUTH-NEW WORK
U-1.6 SITE UTILITIES PLAN UNIVERSITY DRIVE NEW WORK
U-1.7 SITE UTILITIES PLAN TUNNEL-PLUMBING-NEW WORK
U-2.1 SITE UTILITIES PLAN HOSPITAL DRIVE NEW WORK PROFILE/DETAIL
U-2.2 SITE UTILITIES PLAN HOSPITAL DRIVE NEW WORK PROFILE/DETAIL
U-2.3 SITE UTILITY DETAILS
U-2.4 SITE UTILITY DETAILS
U-3.1 SITE UTILITIES PLAN HOSPITAL DRIVE NEW WORK ENLARGED TUNNEL
U-3.2 SITE UTILITIES PLAN HOSPITAL DRIVE NEW WORK ENLARGED TUNNEL
U-3.3 SITE UTILITIES PLAN HOSPITAL DRIVE NEW WORK ENLARGED TUNNEL
U-3.4 SITE UTILITIES PLAN HOSPITAL DRIVE NEW WORK ENLARGED TUNNEL
U-3.5 SITE UTILITY DETAILS
U-3.6 HOSPITAL DRIVE CW MANHOLE- NEW WORK
U-3.7 SITE UTILITY DETAILS
U-3.8 SITE UTILITY HOSPITAL DRIVE-ENLARGED TUNNEL-ELECTRICAL PLAN-NEW-WORK
U-4.1 ELECTRICAL DISTRIBUTION 12KV RISER

H.V.A.C.
H2-0.1 H.V.A.C. PLAN COOLING PLANT #3 BASEMENT DEMOLITION
H2-0.2 H.V.A.C. PLAN COOLING PLANT #3 TUNNEL DEMOLITION
H2-0.3 H.V.A.C. PLAN PRIMARY CARE SUB-BASEMENT DEMOLITION
H2-0.4 H.V.A.C. PLAN COOLING PLANT #3 FIRST FLOOR DEMOLITION
H2-1.1 H.V.A.C. PLAN COOLING PLANT #3 BASEMENT NEW WORK
H2-1.2 H.V.A.C. PLAN COOLING PLANT #3 TUNNEL NEW WORK
H2-1.3 H.V.A.C. PLAN PRIMARY CARE SUB-BASEMENT NEW WORK
H2-1.4 H.V.A.C. PLAN COOLING PLANT #3 FIRST FLOOR NEW WORK
H2-1.5 H.V.A.C. PLANS- GEN. BUILDING
H2-1.6 H.V.A.C. GEN. SCHED. AND DETAILS
H2-3.1 H.V.A.C. FLOW DIAGRAM COOLING PLANT #3 NEW WORK

ELECTRICAL
E2-0.1 ELECTRICAL PLAN COOLING PLANT #3 BASEMENT DEMOLITION
E2-1.1 ELECTRICAL PLAN COOLING PLANT #3 BASEMENT NEW WORK
E2-1.2 ELECTRICAL PLAN COOLING PLANT #3 FIRST & SECOND NEW WORK
E2-2.1 ELECTRICAL RISER COOLING PLANT #3



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Drawing Issue:

RECORD DRAWINGS

No.	Date	Description
1	02-15-07	CONTRACT DOCUMENT ISSUE
	08-21-09	RECORD DRAWINGS
RD-11	09-01-11	RECORD DRAWINGS

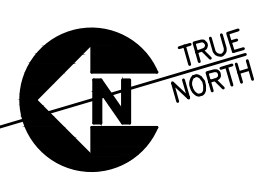
Drawing Title:
**INFRASTRUCTURE
SITE MAP AND
DRAWING INDEX**

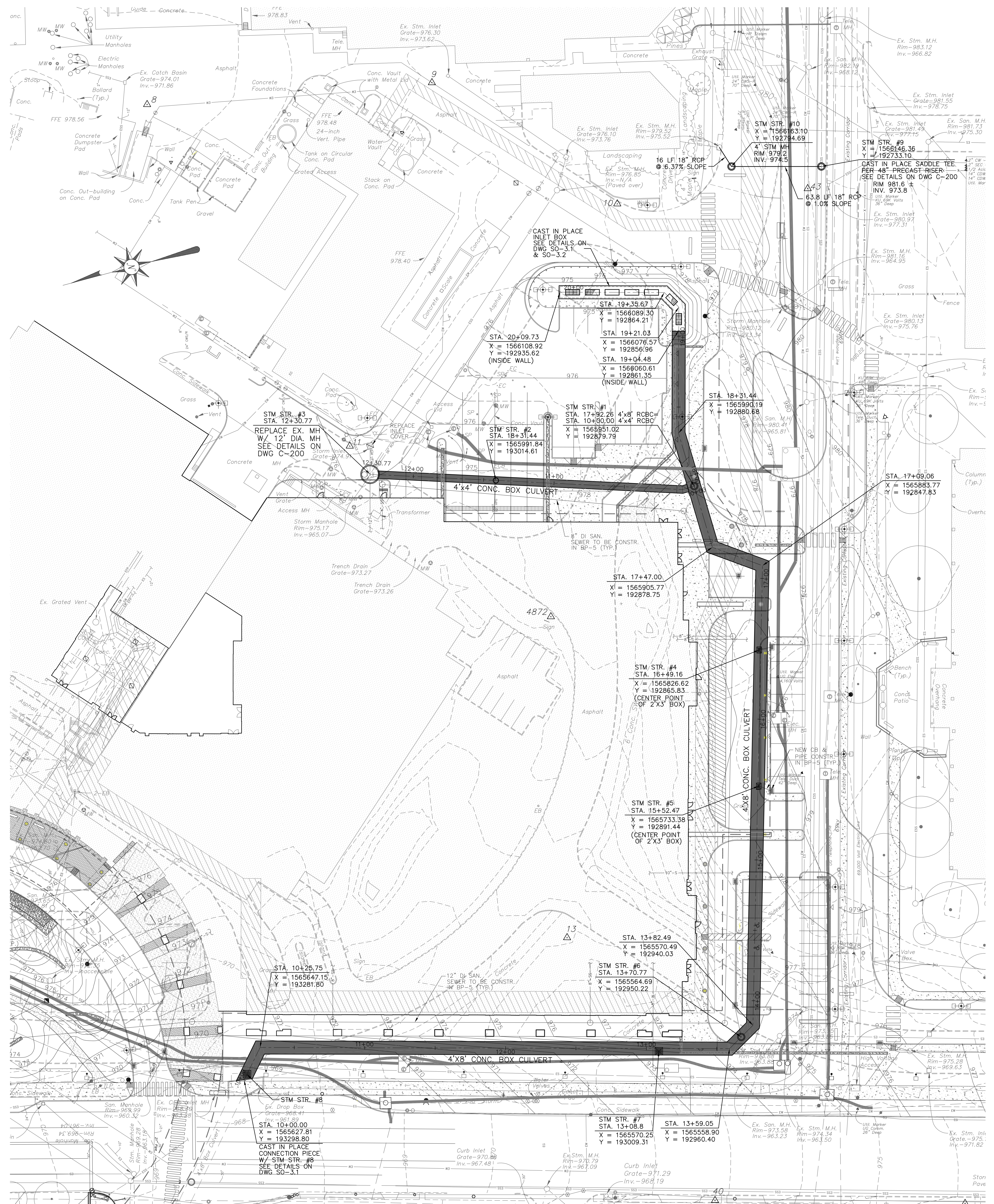
GBBN Job No:	10247.04
Job No:	03350
CAD File:	a0-0.0.dwg
Scale:	AS NOTED
Date:	02-15-07
Sheet:	

SITE MAP
NOT TO SCALE



SITE LOCATION MAP
LEXINGTON, KENTUCKY
NOT TO SCALE





NOTE:

- MAJOR WORK INCLUDED IN BP-3B:
CONSTRUCT 904.5 LF 8'X4' RCBC
CONSTRUCT 230.8 LF 4'X4' RCBC
CONSTRUCT INLET BOX FOR 8'X4' RCBC
REPLACE STM STR. #1 THROUGH #10 & 100 ± LF 18" RCP
REPLACE PAVEMENT, CURB & GUTTER ON EXISTING ROADS/DRIVES AS REQUIRED
- RISERS ON BOX CULVERT MAY BE CONSTRUCTED UP TO 2'-3" BELOW PROPOSED FINISH GRADE IN BP-3B CONSTRUCTION PHASE.
- FINAL COMPOSITION OF RISERS WILL OCCUR IN BP-5. RIM OR TOP OF GRADE ELEVATION OF RISERS ARE SUBJECT TO MODIFICATIONS.
- STM STR. #4 & #5 SHOULD BE ACCURATELY LOCATED ON BOX CULVERT TO MATCH CURB & GUTTER LINE

RECORD DRAWING
THIS DRAWING HAS BEEN REVISED FROM THE ORIGINAL CONTRACT DRAWING BASED ON DATA SUPPLIED BY THE CONTRACTOR TO SHOW MAJOR CHANGES MADE DURING CONSTRUCTION. NO WARRANTY IS MADE FOR COMPLETE ACCURACY OF THIS DRAWING.
HDR ENGINEERING, INC.
DATE 09-01-11 BY KEITH MESSINGER

BOX CULVERT NOTES:

- CONCRETE BOX CULVERT IS MANUFACTURED TO MEET OR EXCEED ASTM STANDARD SPECIFICATIONS: C-1433 PRECAST REINFORCED CONCRETE BOX SECTIONS FOR CULVERTS, STORM DRAINS, AND SEWERS.
- INSTALLATION OF BOX CULVERT SHALL MEET OR EXCEED KYDOH STANDARDS SECTION 611, AND KYDOH STANDARD DRAWING RDI-120-03.
- CONCRETE BOX CULVERT SHALL BE AS MANUFACTURED BY SHERMAN DIXIE OR APPROVED EQUAL.

STORM STRUCTURE NOTES:

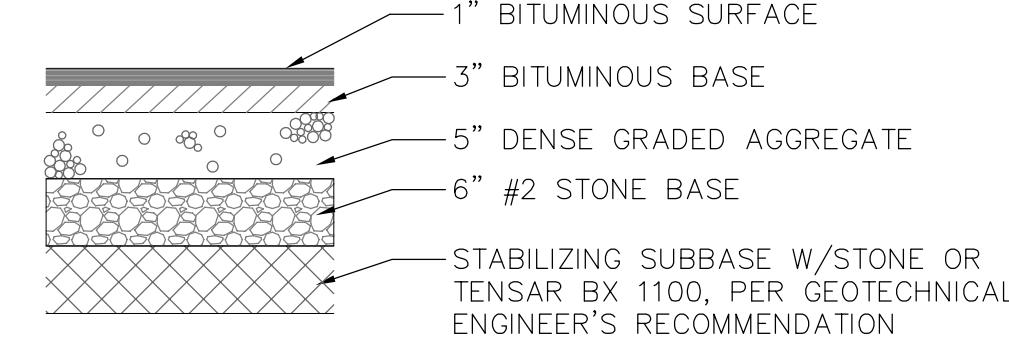
STRUCTURE ID	STRUCTURE TYPE
STM STR. #1	PRECAST CONC. JUNCTION BOX W/ 24" SOLID MH LID
STM STR. #2	4' DIAMETER STANDARD STORM MANHOLE (NO BOTTOM)
STM STR. #3	PRECAST 12" DIA. STM MH W/ 24" SOLID MH LID
STM STR. #4	LFUCG CBI TYPE "D" (NO BOTTOM)
STM STR. #5	LFUCG CBI TYPE "D" (NO BOTTOM)
STM STR. #6	4' DIAMETER STANDARD STORM MANHOLE (NO BOTTOM)
STM STR. #7	PRECAST 4'X4' CONC. BOX W/ 4'X4' CAST IRON GRATE OPENING
STM STR. #8	CAST IN PLACE 4'X4' CONC. BOX W/ 4'X4' CAST IRON GRATE OPENING
STM STR. #9	4' DIAMETER STANDARD STORM MANHOLE W/SADDLE TEE
STM STR. #10	4' DIAMETER STANDARD STORM MANHOLE

ALL PRECAST STRUCTURE SHALL MEET "SPECIFICATIONS FOR PRECAST-REINFORCED CONCRETE MANHOLE SECTIONS", PER ASTM C-478 (LATEST REVISION). REFER TO LFUCG STANDARD DRAWINGS FOR LFUCG CBI AND STANDARD STORM MANHOLE.

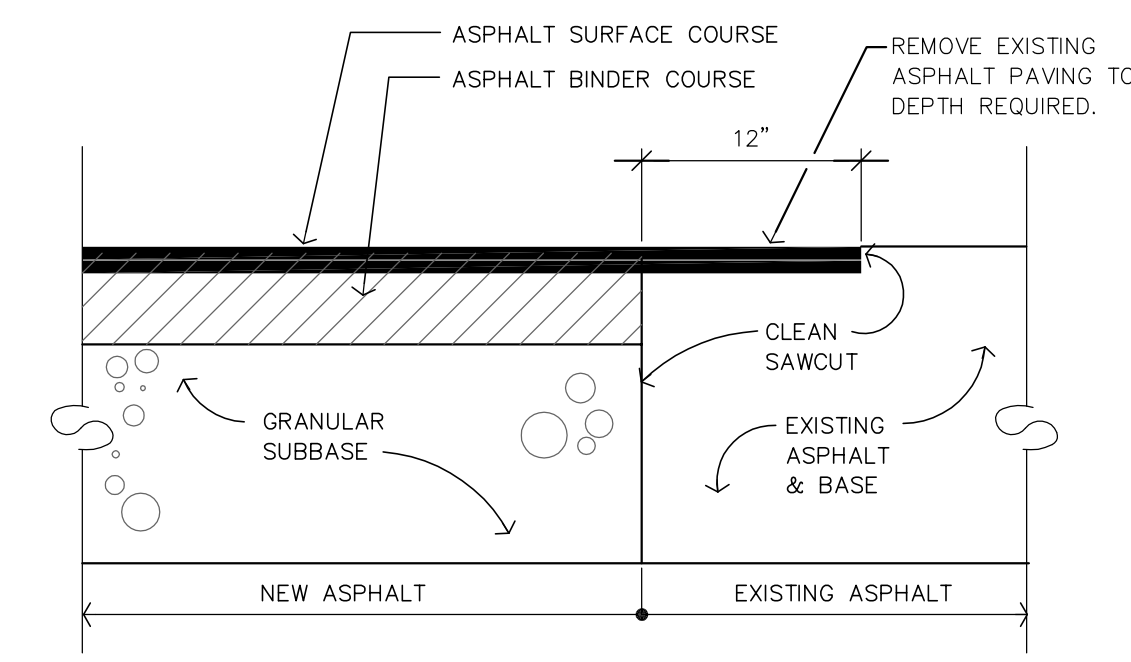
EXISTING SURVEY CONTROL POINTS

Point	Northing	Eastng	Elevation	Full Description
8	193183.52	1566314.43	974.46	SET PK NAIL
9	192984.32	1566276.38	976.96	SET PK NAIL
10	192879.91	1566158.78	977.18	SET PK NAIL
11	193108.30	1566042.59	975.55	SET PK NAIL
13	193051.03	1565665.23	971.72	SET IPC
3.9	192827.85	1565408.95	976.69	SET IPC
4.0	192998.62	1565457.52	973.72	SET IPC
4.3	192746.61	1566133.77	980.97	SET IPC
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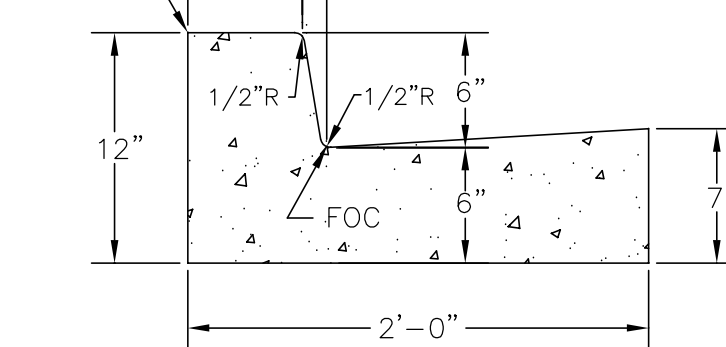
NOTE: Additional control points can be found in the "Existing Survey Control Points" box on site survey drawings



PAVEMENT SECTION
N.T.S.



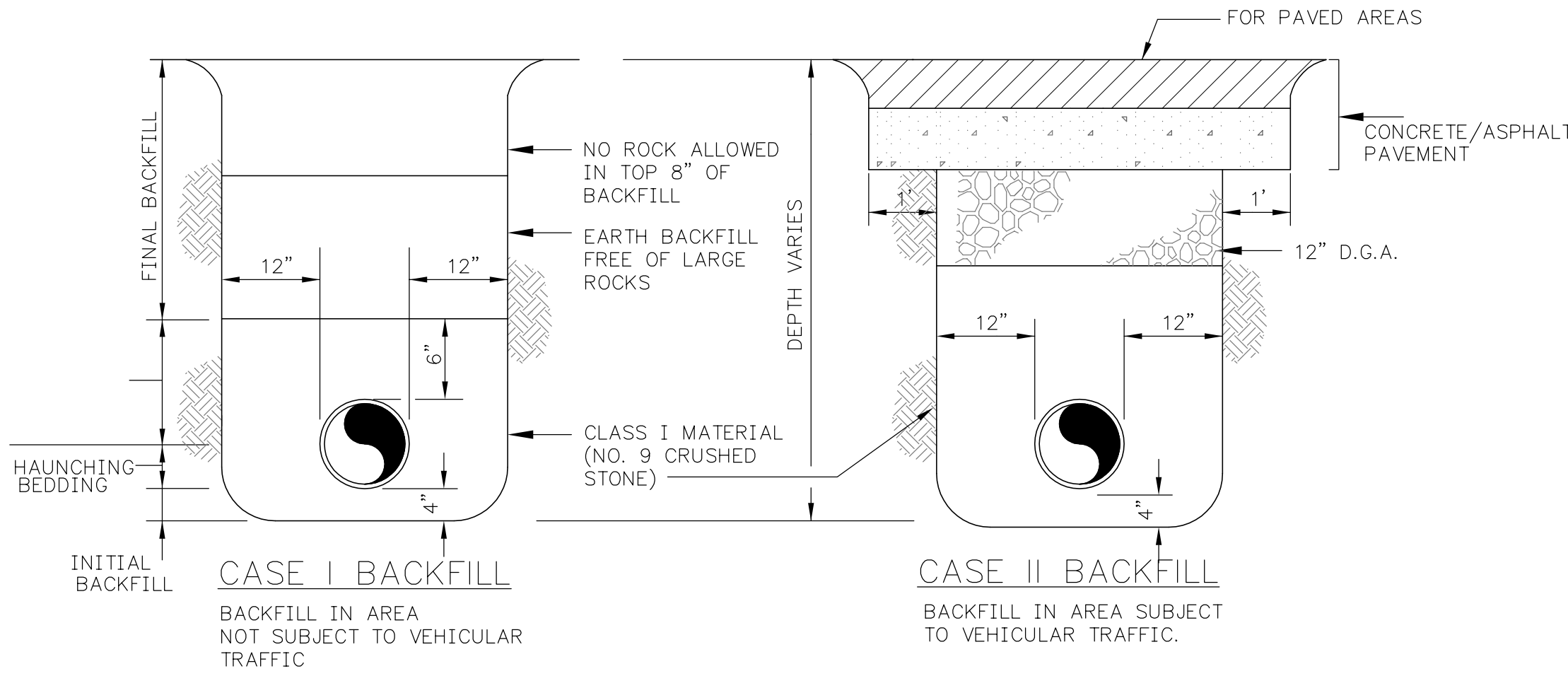
EDGE KEY DETAIL
N.T.S.



LFUCG TYPE 1 CURB & GUTTER
N.T.S.

NOTES:

- CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
- SAWED CONTRACTION JOINTS SHALL BE CONSTRUCTED EVERY 20 FEET.
- EXPANSION JOINTS SHALL BE CONSTRUCTED AT ALL BREAKS IN ALIGNMENT, AT ALL DRAINAGE INLETS, AT THE BEGINNING AND ENDING POINTS OF CURVES, AND NOT TO EXCEED 300' MAXIMUM SPACING.
- ALL CONCRETE SHALL BE CURED WITH WHITE PIGMENTED MEMBRANE FORMING COMPOUND (AASHTO M 148, TYPE 2).
- CURB & GUTTER AND HEADER CURB SHALL BE PLACED ON A SIX (6) INCH BED OF D.G.A.



- NOTES:
- FOR PIPE LAID IN ROCK TRENCH PROVIDE 6" CRUSHED STONE BENEATH PIPE
 - EARTH MATERIAL FREE OF ROCK MAY BE USED FOR INITIAL BACKFILL IN LIEU OF CLASS I MATERIAL FOR DUCTILE IRON PIPE AND TRUSS PIPE.

BEDDING AND BACKFILLING DETAILS
NOT TO SCALE



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A.M. KINNEY

AND
ELLERBE BECKET

CONSULTANT
Quest
Quest Engineers, Inc.
2517 Sir Barton Way
Lexington, Kentucky 40509
v 859.223.3755
f 859.223.3150

UK
Construct Patient
Care Facility
UK # 2239.3B

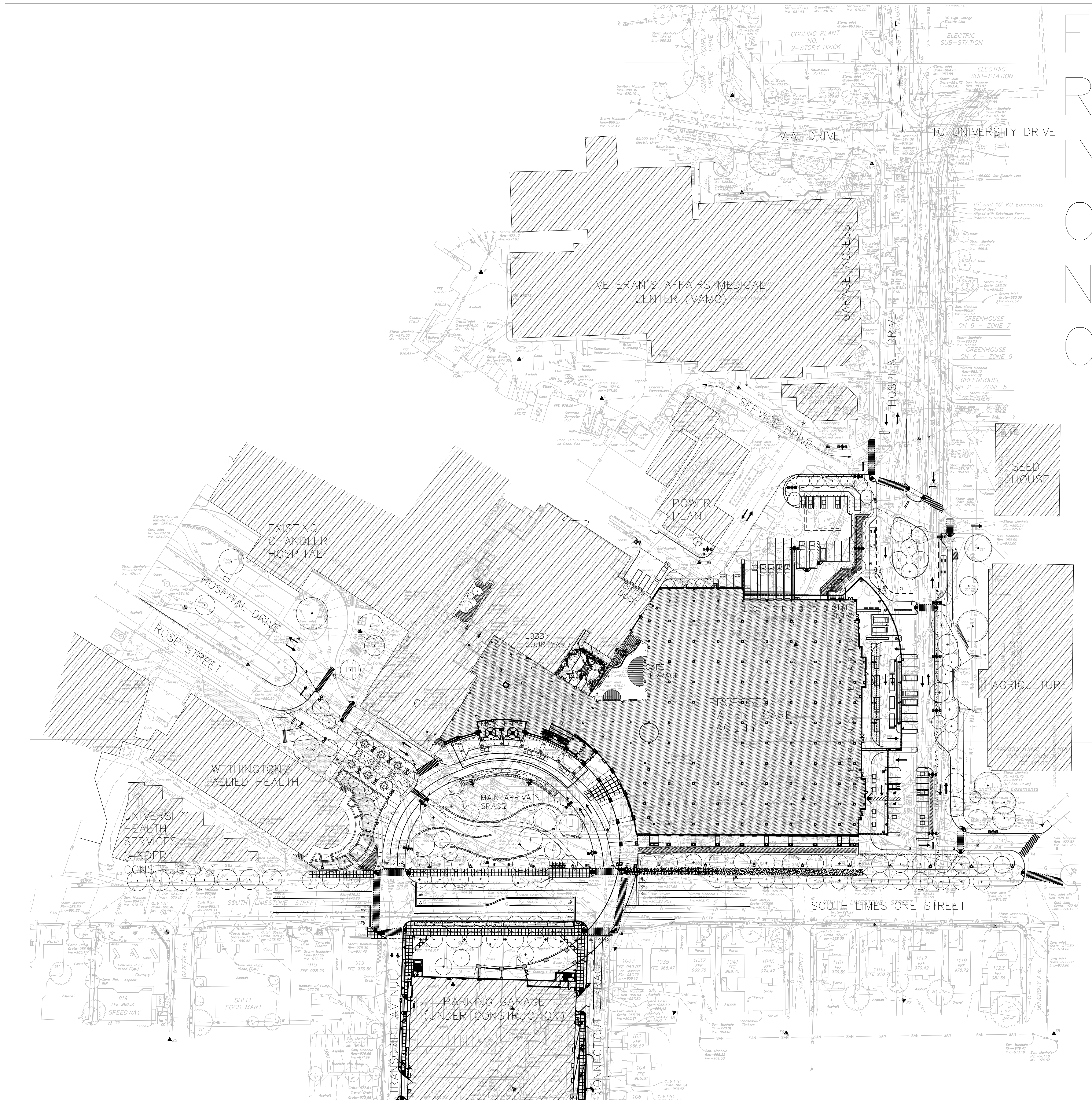
BP - 3B
INFRASTRUCTURE

Drawing Issue:
RECORD DRAWINGS

No.	Date	Description
1	02-15-07	CONTRACT DOCUMENTS ISSUE
	10.16.07	RFI-022
	10.16.07	RFI-050
RD-1	09.01.11	RECORD DRAWINGS

Drawing Title:
CIVIL
STORM SEWER
PLAN & DETAILS

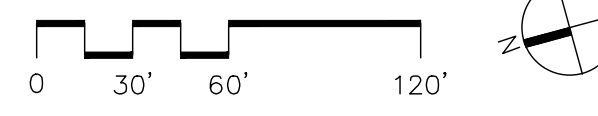
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05315
CAD File:
RD-C-100 & 200
Scale:
1" = 30'
Date:
02-15-07
Sheet:



FOR
REFERENCE
INFORMATION
ONLY –
NOT FOR
CONSTRUCTION

GENERAL NOTES

1. ALL INFORMATION PERTAINING TO EXISTING GRADES, UTILITIES, AND OTHER EXISTING CONDITIONS IS BASED ON A TOPOGRAPHIC SURVEY PROVIDED BY FSM AND DATED AUGUST 2005.
2. USER OF THESE DRAWINGS IS CAUTIONED THAT EXISTING UNDERGROUND UTILITIES AND FOUNDATIONS AS SHOWN ARE NOT GUARANTEED, NOR IS THERE ANY GUARANTEE THAT ALL EXISTING UTILITIES AND FOUNDATIONS, WHETHER ABANDONED OR FUNCTIONAL, ARE SHOWN ON DRAWINGS. IF UNDERGROUND FOUNDATION OR UTILITY WHICH IS NOT SHOWN ON DRAWINGS IS ENCOUNTERED OR DAMAGED BY CONSTRUCTION WORK, NOTIFY ARCHITECT WITHOUT DELAY.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK AND VERIFY PROPOSED GRADES, DIMENSIONS, AND EXISTING CONDITIONS. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR DIRECTION BEFORE PROCEEDING WITH WORK. WORK STARTED WITHOUT NOTIFICATION OF AND BEING ORDERED BY THE ARCHITECT WILL BE THE SOLE RESPONSIBILITY OF CONTRACTOR AND WILL BE CORRECTED BY HIM WITHOUT ADDITIONAL COMPENSATION.
4. THE CONTRACTOR WILL CONTACT ALL APPROPRIATE GOVERNMENT AND/OR PRIVATE UTILITIES BEFORE ANY EXCAVATION AND NOT PROCEED WITH WORK BEFORE RECEIVING ALL NECESSARY PERMITS AND/OR AUTHORIZATIONS.
5. ALL NECESSARY PRECAUTIONS WILL BE TAKEN FOR THE PROTECTION OF THE OWNER AND PUBLIC'S SAFETY AND WELFARE DURING CONSTRUCTION.
6. NO EXCAVATION FOR UTILITIES SHALL BE UNDERTAKEN BENEATH THE DRILLPIECE OF ANY EXISTING TREE TO REMAIN. NO EXCAVATED MATERIAL OR FILL SHALL BE STOCKPILED BENEATH THE DRILLPIECE OF ANY EXISTING TREE TO REMAIN.



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Chandler
Hospital

UK # 2239

BP - 3B,4A,4,5

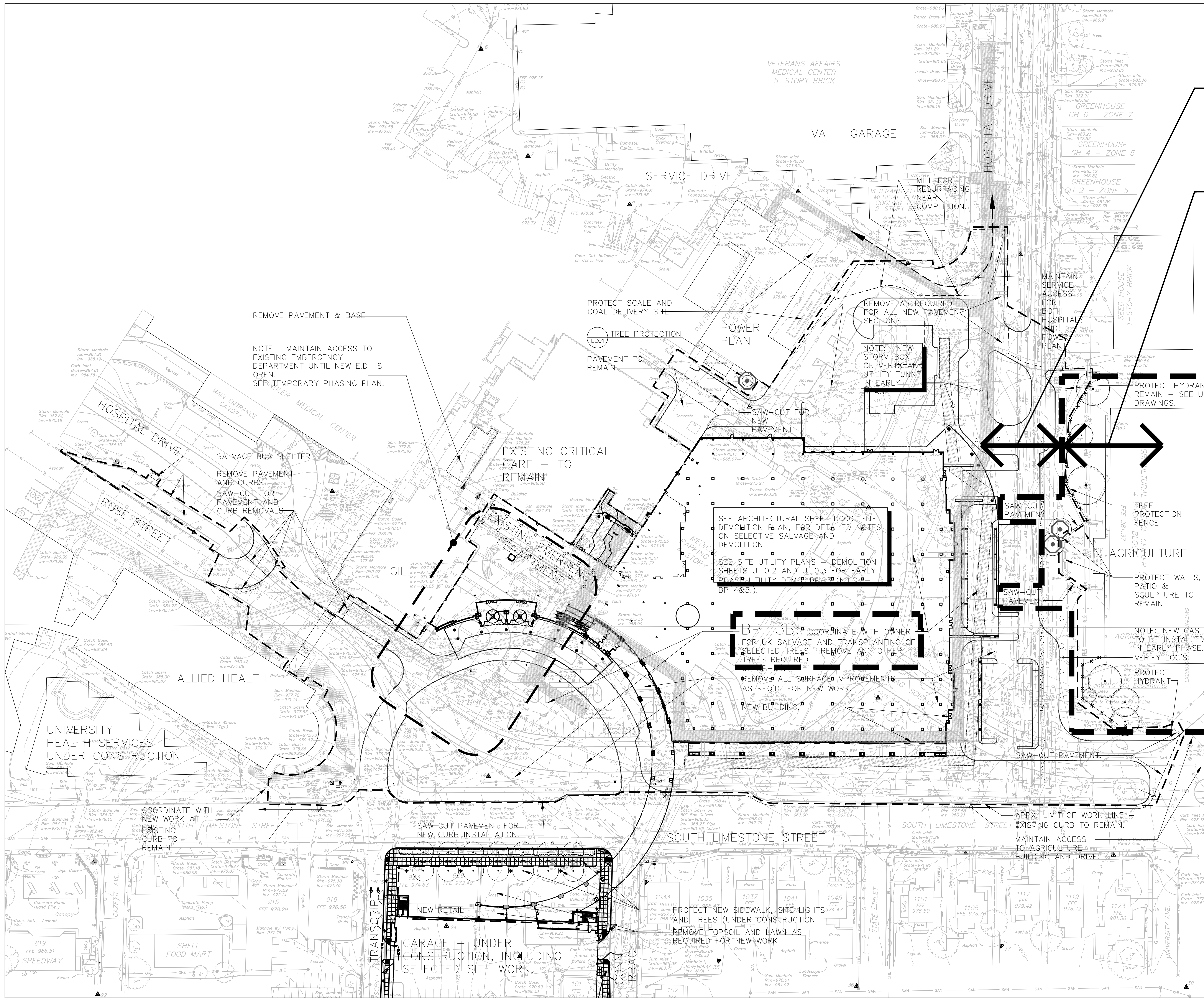
PHASE 2
RECORD DRAWINGS
REVIEW SUBMITTAL

No.	Date	Description
1	04/14/06	CMP-4,5 SD REVIEW SUBMITTAL
2	08/11/06	60X DD PRINTING
3	11/21/06	100X DD PRINTING
4	12/18/06	FINAL DD DOCUMENTS
5	02/15/07	BP-3B - FOR REFERENCE
	8/21/09	RECORD DRAWINGS
RD-1	09/01/11	RECORD DRAWINGS

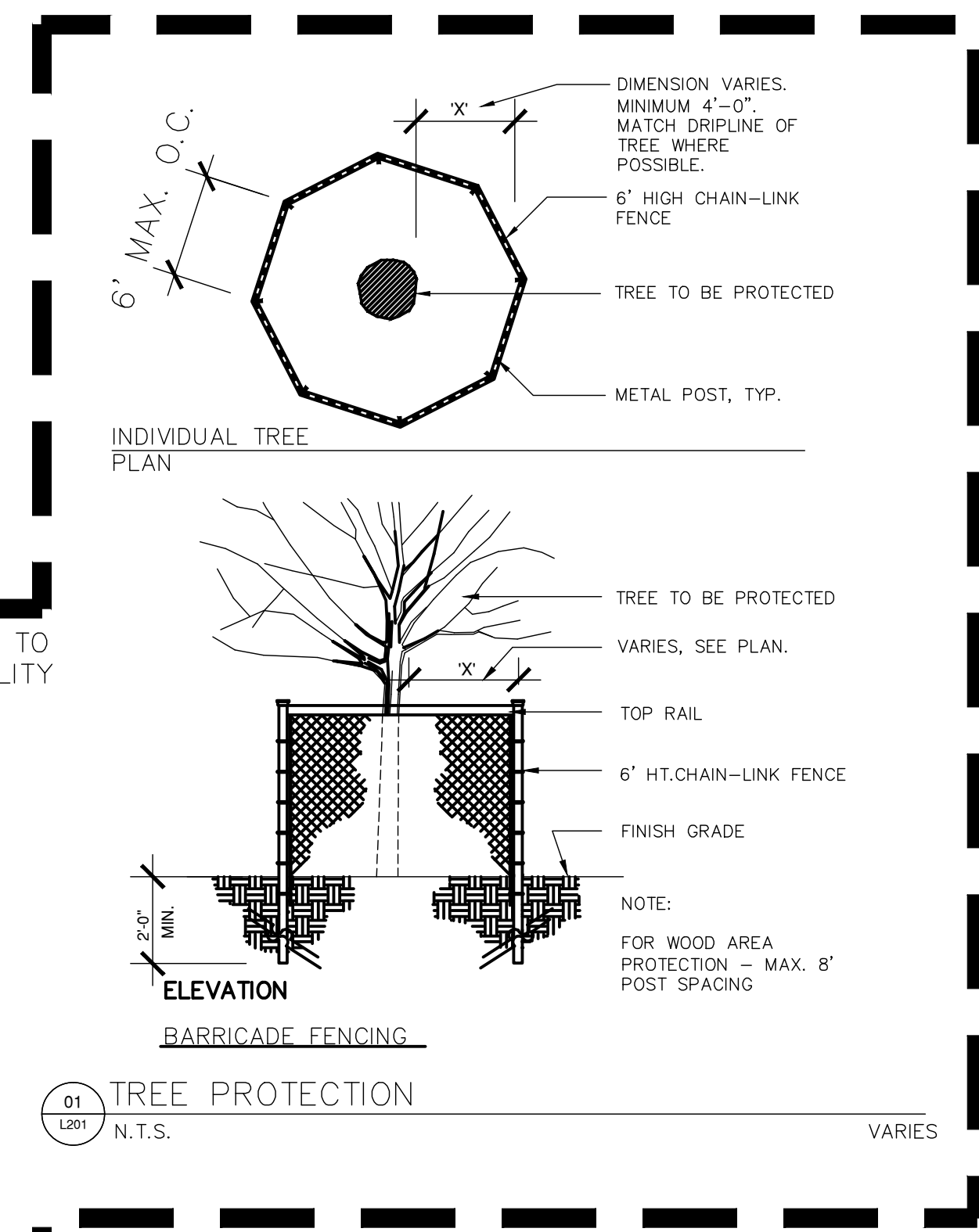
LANDSCAPE
OVERALL
CONTEXT PLAN

Job No:
10247
CAD File:
L101
Scale:
1"=60'-0"
Date:
02.15.07
Sheet:
PRELIMINARY
NOT FOR
CONSTRUCTION

L101



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FOR
CONSTRUCTION
BP-3B FOR
CONSTRUCTION



SITE PREPARATION NOTES:

1. EXISTING ITEMS NOTED TO REMAIN AND EXISTING ITEMS TO BE REMOVED, WHERE INDICATED ON THE DRAWING, ARE FOR CLARIFICATION. IN ANY CASE, REMOVE EXISTING TREES, VEGETATION, PAVING, CURBS, WALKS, FOUNDATIONS, WALLS AND OTHER EXISTING SITE IMPROVEMENTS AS NECESSARY TO COMPLETE THE NEW WORK. REMOVE SUCH EXISTING ITEMS ONLY WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT.

KEY

- APPROX. LIMIT OF WORK, BP-5
- APPROX. LIMIT OF WORK, BP-3B
- x-x- TREE AREA PROTECTION FENCING
- PROTECT EXISTING TREE TO REMAIN



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UK # 2239.3B

BP - 3B
INFRASTRUCTURE

Drawing Issue:

RECORD DRAWINGS

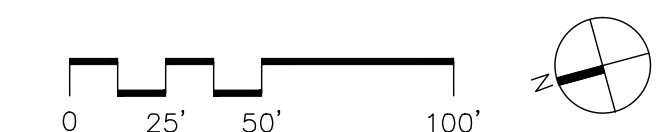
No.	Date	Description
1	02/15/07	CONTRACT DOCUMENTS ISSUE
	8/21/09	RECORD DRAWINGS
RD-1	09/01/11	RECORD DRAWINGS

Drawing Title:

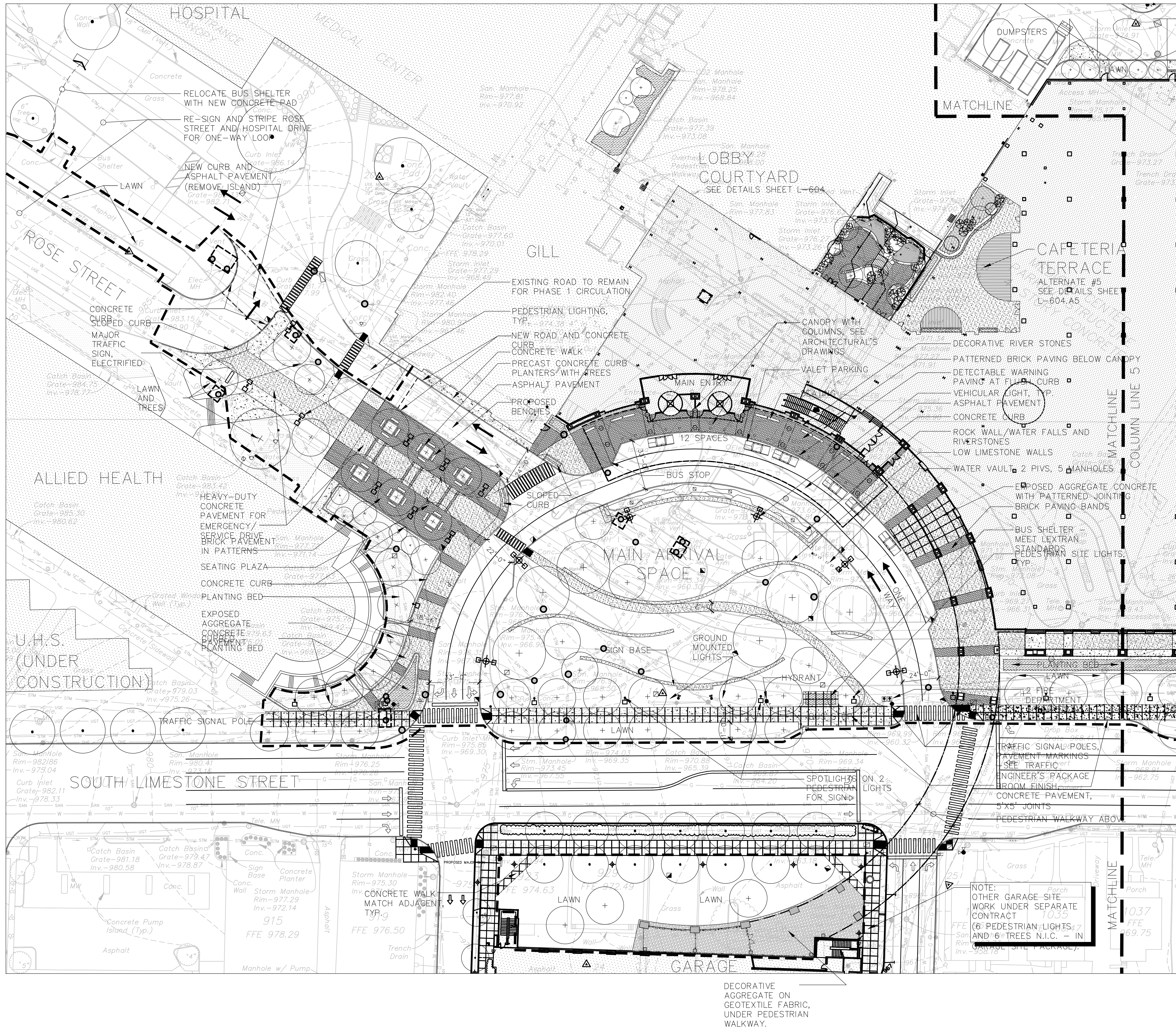
**LANDSCAPE
PREPARATION/
PROTECTION PLAN**

Job No: 10247	Scale: 1"=50'-0"
SAD File: L201	
Date: 02.15.07	
Sheet:	

L201



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LAYOUT NOTES

1. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURBS OR WALLS UNLESS OTHERWISE NOTED.
2. AREAS TO RECEIVE PAVING, CURBS, PLANTING, SLEEVES AND OTHER SITE IMPROVEMENTS SHALL BE MARKED OUT AND ANY ADJUSTMENT IN THEIR LOCATION, AS DIRECTED BY THE OWNER'S REPRESENTATIVE, SHALL BE MADE PRIOR TO THE COMMENCEMENT OF WORK.
3. ALL PATHWAYS AT DOORS SHALL BE CENTERED ON DOORS UNLESS OTHERWISE INDICATED.
4. EXPANSION JOINTS ARE TO BE LOCATED AT THE JUNCTION OF ALL CURBS, STEPS, WALLS AND PAVING ADJACENT TO A BUILDING.
5. EXPANSION JOINTS IN CONCRETE CURBS AND WALKS SHALL BE INSTALLED AS SHOWN ON DRAWINGS. EXPANSION JOINTS SHALL OCCUR NO MORE THAN 12 FEET ON CENTER IN CONCRETE CURBS AND 15 FEET ON CENTER IN CONCRETE WALKS.
6. ALL SCORING IN CONCRETE SHALL BE CLEAN, HAND-TOOLED 1/4" DEEP X 1/4" WIDE.
7. SCORING AND EXPANSION JOINT LAYOUT SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

KEY

- LIMIT OF SITE WORK
- - - MATCHLINE
- EXISTING TREE TO REMAIN AND BE PROTECTED
- ⊕ PROPOSED TREE
- ▭ PROPOSED BUILDING
- ▬ PROPOSED VEHICULAR CURB
- ▨ PROPOSED SPECIALTY/BRICK PAVING
- ▩ PROPOSED EXPOSED AGGREGATE CONCRETE
- ▧ PROPOSED CONCRETE
- ▩ PROPOSED WALL
- ▭ PROPOSED BENCH
- ▭ EXISTING DRAIN TO REMAIN
- ▭ PROPOSED DRAIN
- ▭ PROPOSED YARD DRAIN
- ⊕ EXISTING PEDESTRIAN LIGHT AT GARAGE
- ▭ PROPOSED WALL WASH LIGHTS
- ▭ PROPOSED VEHICULAR LIGHT
- ▭ PROPOSED PEDESTRIAN LIGHT
- ▭ PROPOSED HYDRANT
- ▭ FIRE DEPARTMENT CONNECTION
- ▭ EXISTING HYDRANT
- ▭ SIGN (SEE SIGNAGE PACKAGE)
- ▭ TRAFFIC POLE
- ▭ GROUND MOUNTED LIGHT

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PHASE 2
 RECORD DRAWINGS
 REVIEW SUBMITTAL

No.	Date	Description
1	04/14/06	OMP-4.5 SD REVIEW SUBMITTAL
2	08/11/06	60X DD PRINTING
3	11/21/06	100X DD PRINTING
4	12/18/06	FINAL TD DOCUMENTS
5	02/15/07	BP-3B - FOR REFERENCE
6	8/21/09	RECORD DRAWINGS
RD-1	09/01/11	RECORD DRAWINGS

LANDSCAPE
 LAYOUT PLAN

Job No:
 10247

SAD File:
 L301A

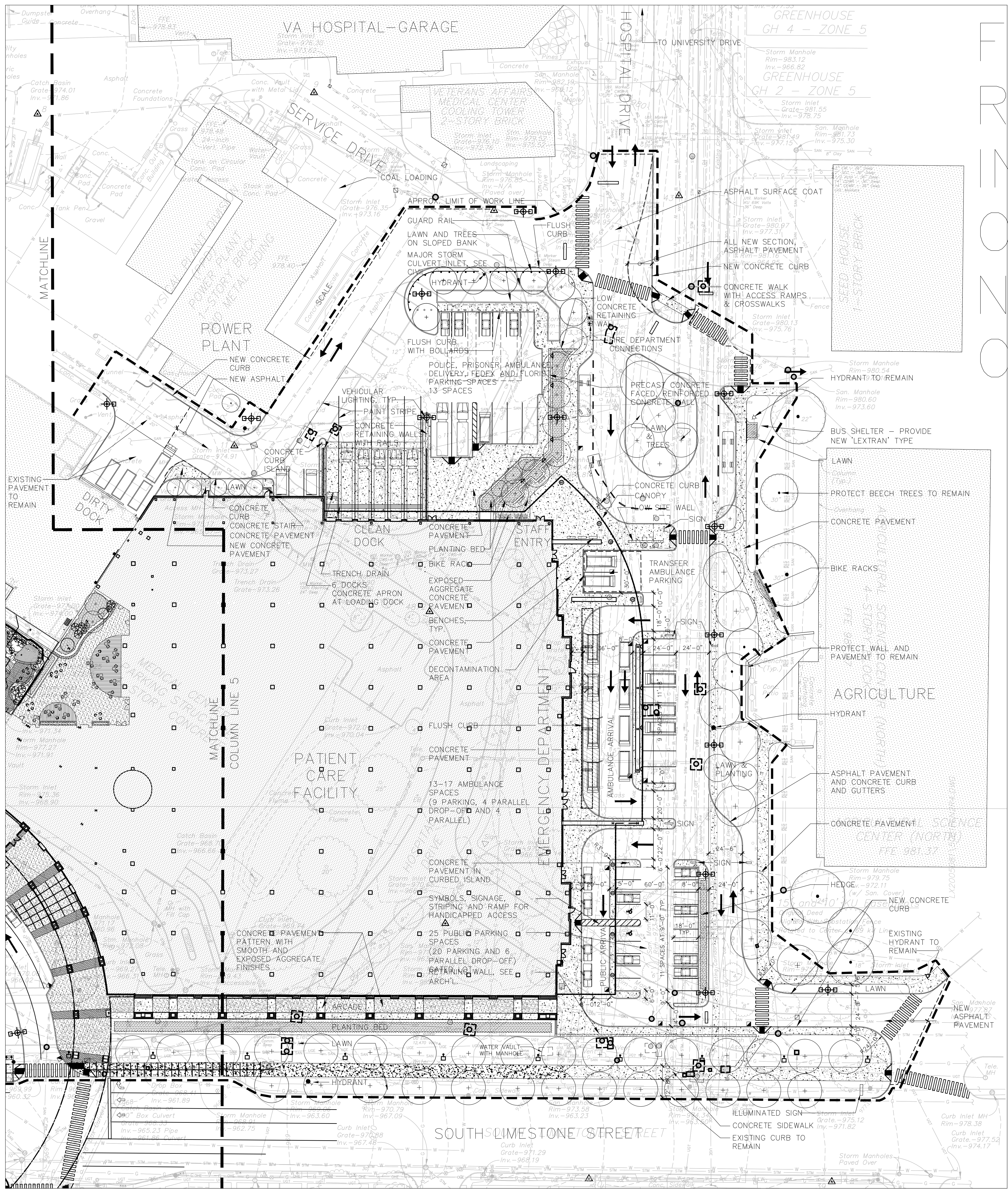
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 02.15.07

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L301A

J:\UK BP-3 Record Drawings\Drawings\L301A.dwg - 3/20/11 - 9:14am - gollifrom



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LAYOUT NOTES

1. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURBS OR WALLS UNLESS OTHERWISE NOTED.
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KEY

- LIMIT OF SITE WORK
- MATCHLINE
- LIMIT OF PAVING LINE
- EXISTING TREE TO REMAIN AND BE PROTECTED
- PROPOSED TREE
- PROPOSED BUILDING
- PROPOSED VEHICULAR CURB
- PROPOSED SPECIALTY/BRICK PAVING
- PROPOSED EXPOSED AGGREGATE CONCRETE
- PROPOSED CONCRETE
- PROPOSED WALL
- PROPOSED GUARD RAIL
- PROPOSED BENCH
- EXISTING DRAIN TO REMAIN
- PROPOSED DRAIN
- EXISTING PEDESTRIAN LIGHT AT GARAGE
- PROPOSED WALL WASH LIGHTS
- PROPOSED VEHICULAR LIGHT
- PROPOSED PEDESTRIAN LIGHT
- PROPOSED HYDRANT
- FIRE DEPARTMENT CONNECTION
- EXISTING HYDRANT
- SIGN (SEE SIGNAGE PACKAGE)
- TRAFFIC POLE
- GROUND MOUNTED LIGHT

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Drawing Issue:

**PHASE 2
RECORD DRAWINGS
REVIEW SUBMITTAL**

No.	Date	Description
1	04.14.06	OMP-4,5 SD REVIEW SUBMITTAL
2	08.11.06	60X DD PRINTING
3	11.21.06	100X DD PRINTING
4	12.18.06	FINAL DD DOCUMENTS
5	02.15.07	BP-3B - FOR REFERENCE
8/21/09		RECORD DRAWINGS
RD-1	09/01/11	RECORD DRAWINGS

Drawing Title:

**LANDSCAPE
LAYOUT
PLAN**

Job No:
10247

SAD File:
L301B

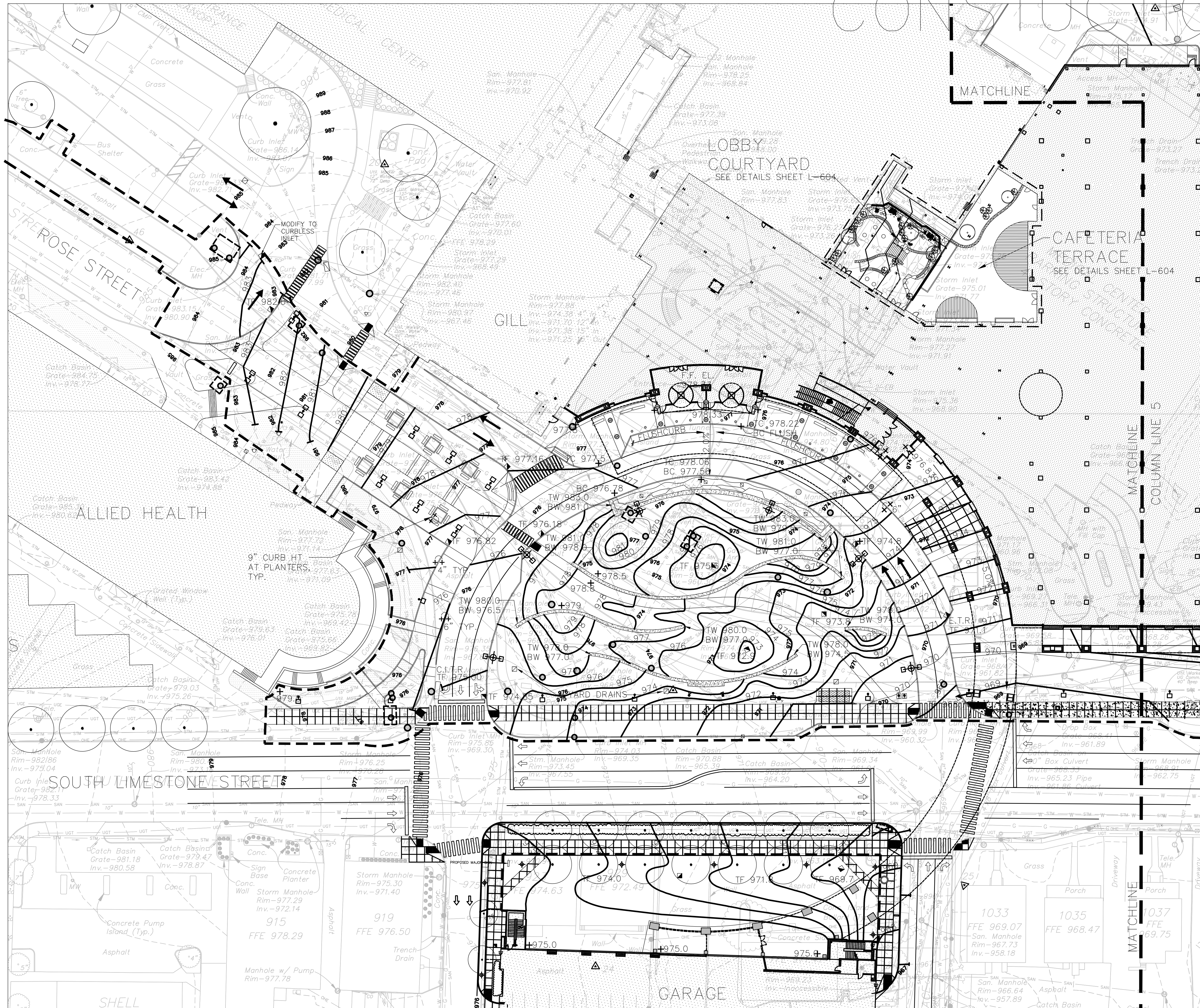
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Date:
02.15.07

Stamp: **PRELIMINARY
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CONSTRUCTION**

L301B

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KEY

- LIMIT OF SITE WORK
- - - MATCHLINE
- EXISTING TREE TO REMAIN AND BE PROTECTED
- ⊕ PROPOSED TREE
- PROPOSED CONTOUR
- - - EXISTING CONTOUR
- PROPOSED VEHICULAR CURB
- PROPOSED WALL
- PROPOSED BENCH
- ▣ EXISTING DRAIN TO REMAIN
- CURB INLET TO REMAIN (C.I.T.R.)
- ▣ PROPOSED DRAIN
- ▣ PROPOSED YARD DRAIN
- ⊕ EXISTING PEDESTRIAN LIGHT AT GARAGE
- ⊕ PROPOSED WALL WASH LIGHTS
- ⊕ PROPOSED VEHICULAR LIGHT
- ⊕ PROPOSED PEDESTRIAN LIGHT
- ⊕ PROPOSED HYDRANT
- ⊕ FIRE DEPARTMENT CONNECTION
- ⊕ EXISTING HYDRANT
- ⊕ TRAFFIC POLE
- ⊕ GROUND MOUNTED LIGHT
- ⊕ SIGN
- + TS 00.00 TOP OF STAIRS
- + BS 00.00 BOTTOM OF STAIRS
- + TC 00.00 TOP OF CURB
- + BC 00.00 BOTTOM OF CURB
- + TF 00.00 TOP OF FRAME
- + TW 00.00 TOP OF WALL
- + BW 00.00 BOTTOM OF WALL
- + (00.00) EXISTING SPOT ELEVATION
- + 00.00 PROPOSED SPOT ELEVATION
- + MEG MATCH EXISTING GRADE
- + 00.00 FLUSH

0 15' 30' 60'

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 UK # 2239
 BP - 3B,4A,4,5

Drawing Issue:

**PHASE 2
 RECORD DRAWINGS
 REVIEW SUBMITTAL**

No.	Date	Description
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3	11/21/06	100X DD PRINTING
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5	02/15/07	BP-3B - FOR REFERENCE
RD-1	09/01/11	RECORD DRAWINGS

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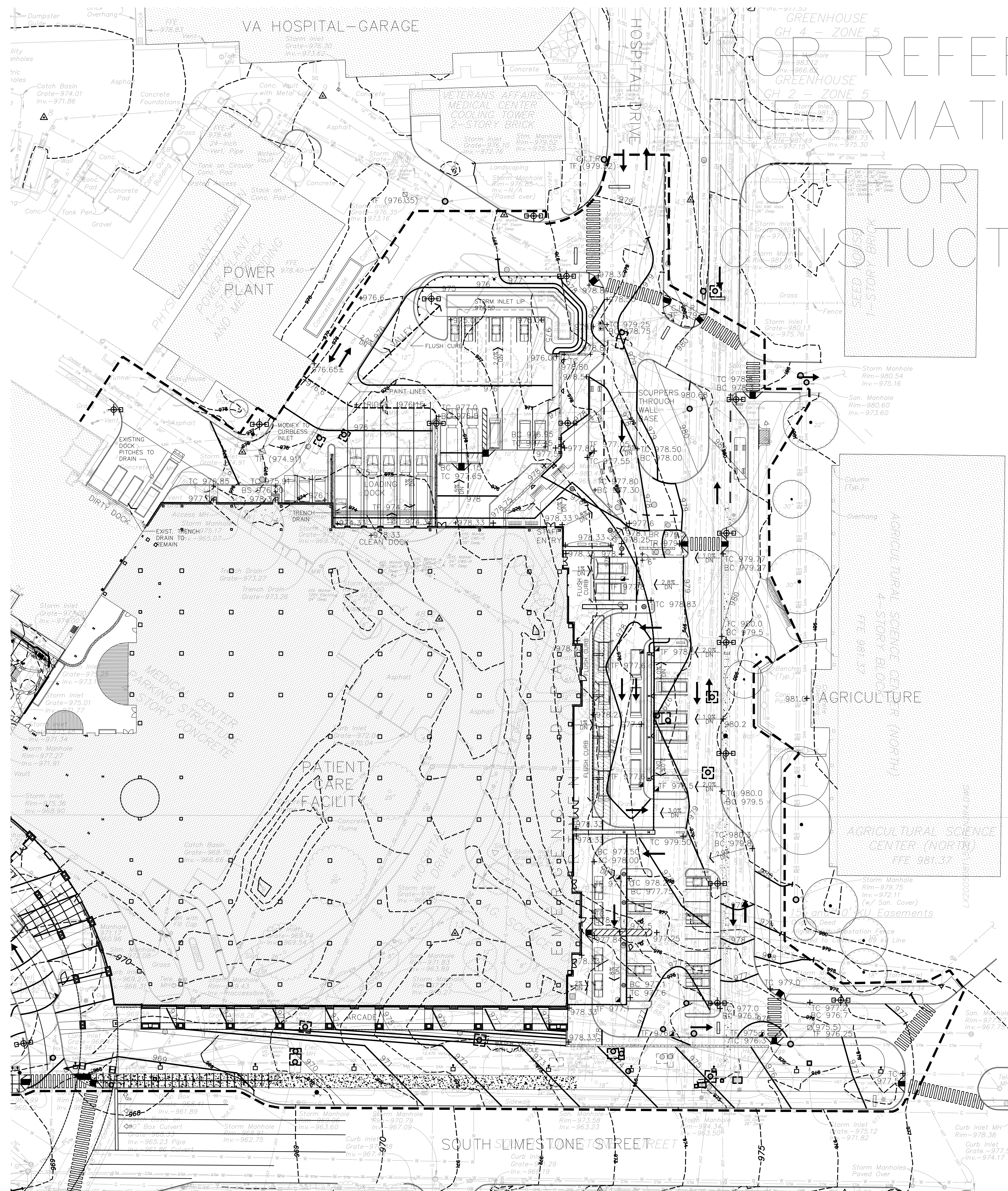
**LANDSCAPE
 GRADING PLAN**

Job No:	10247
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Scale:	1"=30'-0"
Date:	02.15.07

**PRELIMINARY
 NOT FOR
 CONSTRUCTION**

L401A

J:\UK BP-3 Record Drawings\Drawings\L401A.dwg - Aug 24, 2011 - 9:15am - gaffney



FOR REFERENCE ONLY —
 INFORMATION ONLY —
 NOT FOR CONSTRUCTION

- KEY**
- LIMIT OF SITE WORK
 - MATCHLINE
 - EXISTING TREE TO REMAIN AND BE PROTECTED
 - ⊕ PROPOSED TREE
 - PROPOSED CONTOUR
 - EXISTING CONTOUR
 - PROPOSED VEHICULAR CURB
 - PROPOSED WALL
 - PROPOSED BENCH
 - ▣ EXISTING DRAIN TO REMAIN
 - CURB INLET TO REMAIN (C.I.T.R.)
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 - ⊕ PROPOSED PEDESTRIAN LIGHT
 - ⊕ PROPOSED HYDRANT
 - ⊕ FIRE DEPARTMENT CONNECTION
 - ⊕ TRAFFIC POLE
 - ⊕ GROUND MOUNTED LIGHT
 - ⊕ EXISTING HYDRANT
 - ⊕ SIGN
 - + TS 00.00 TOP OF STAIRS
 - + BS 00.00 BOTTOM OF STAIRS
 - + BC 00.00 TOP OF CURB
 - + BF 00.00 BOTTOM OF CURB
 - + TF 00.00 TOP OF FRAME
 - + TW 00.00 TOP OF WALL
 - + BW 00.00 BOTTOM OF WALL
 - + (00.00) EXISTING SPOT ELEVATION
 - + (00.00) PROPOSED SPOT ELEVATION
 - + MEG MATCH EXISTING GRADE
 - + FLUSH FLUSH

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Chandler
Hospital
UK # 2239
BP - 3B,4A,4,5

Drawing Issue:

**PHASE 2
RECORD DRAWINGS
REVIEW SUBMITTAL**

No.	Date	Description
1	04.14.06	OMP-4,5 SD REVIEW SUBMITTAL
2	08.11.06	60X DD PRINTING
3	11.21.06	100X DD PRINTING
4	12.18.06	FINAL DD DOCUMENTS
5	02.09.07	REV. FOR STAFF ENTRY
6	02.15.07	BP-3B - FOR REFERENCE
	8/21/09	RECORD DRAWINGS
RD-1	09/01/11	RECORD DRAWINGS

Drawing Title:

**LANDSCAPE
GRADING PLAN**

Job No:
10247

CAD File:
L401B

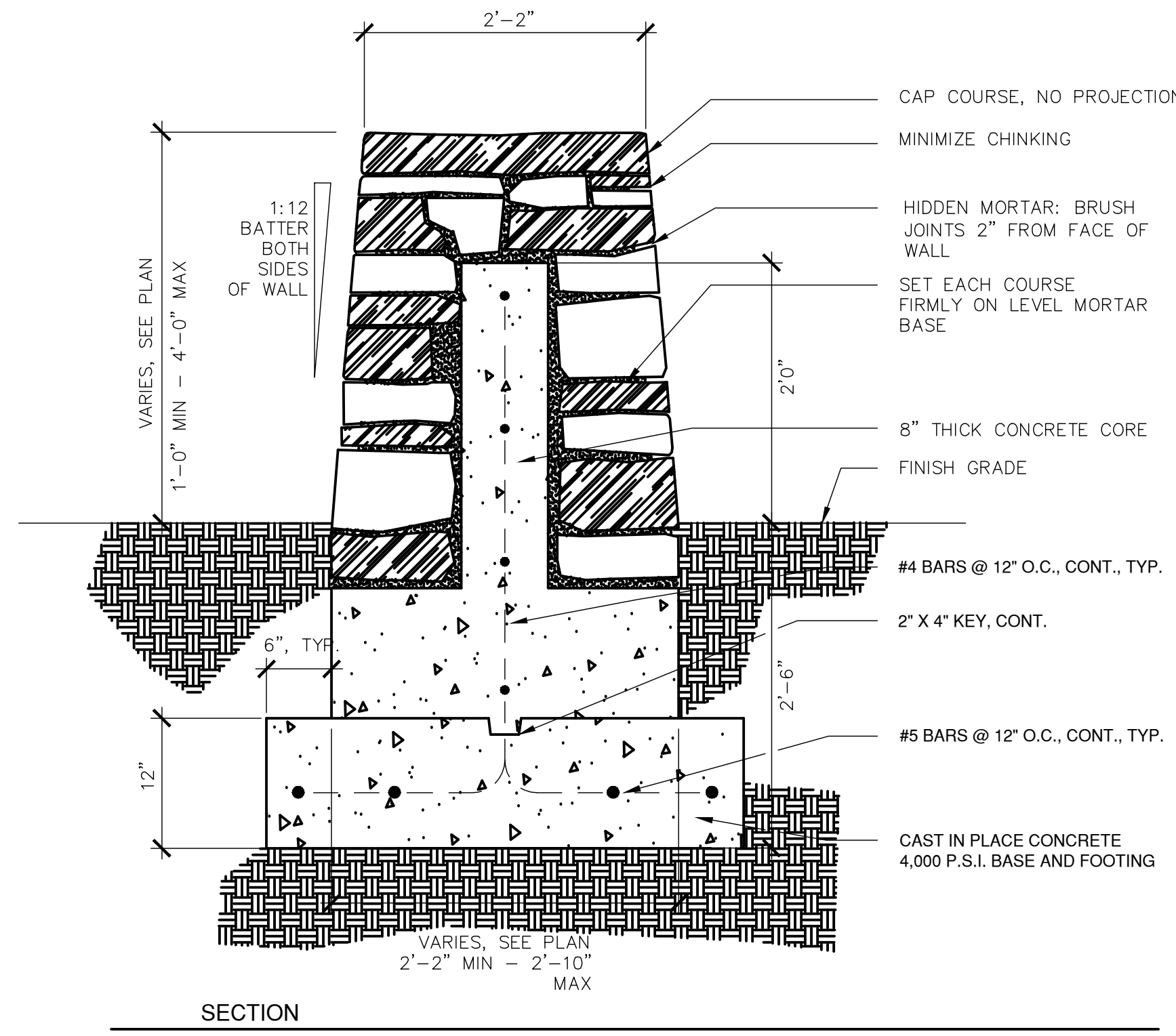
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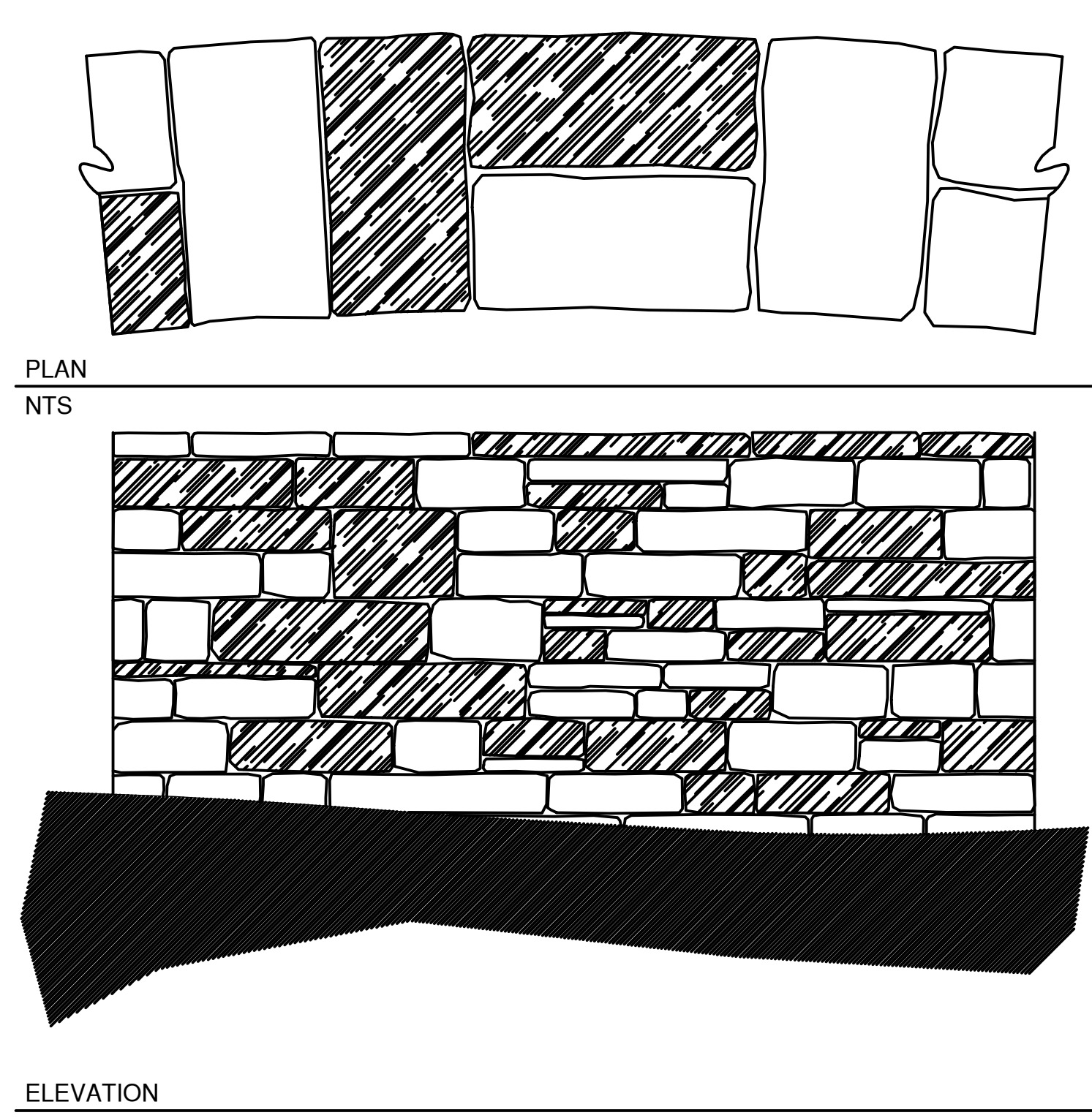
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L401B

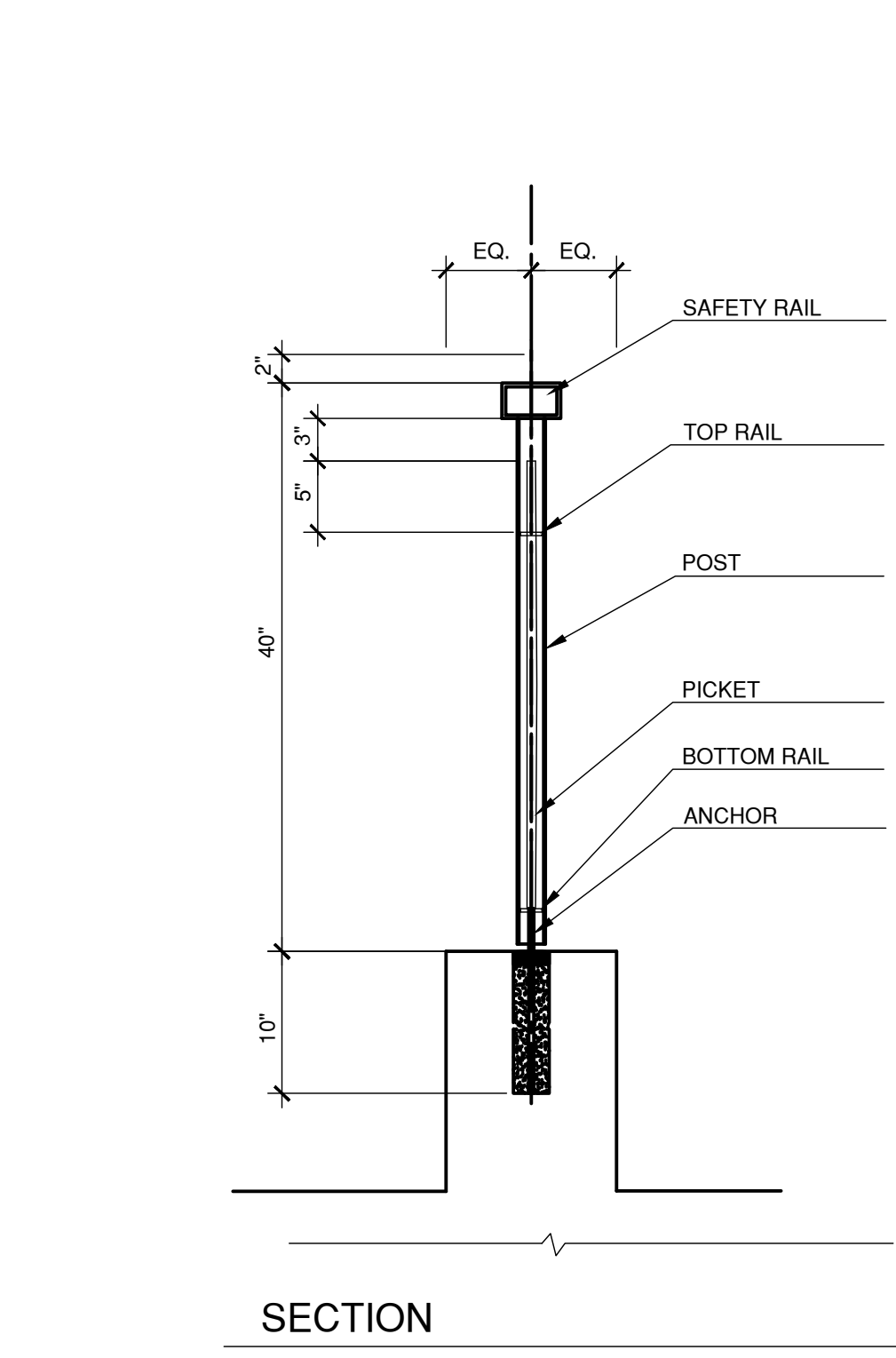
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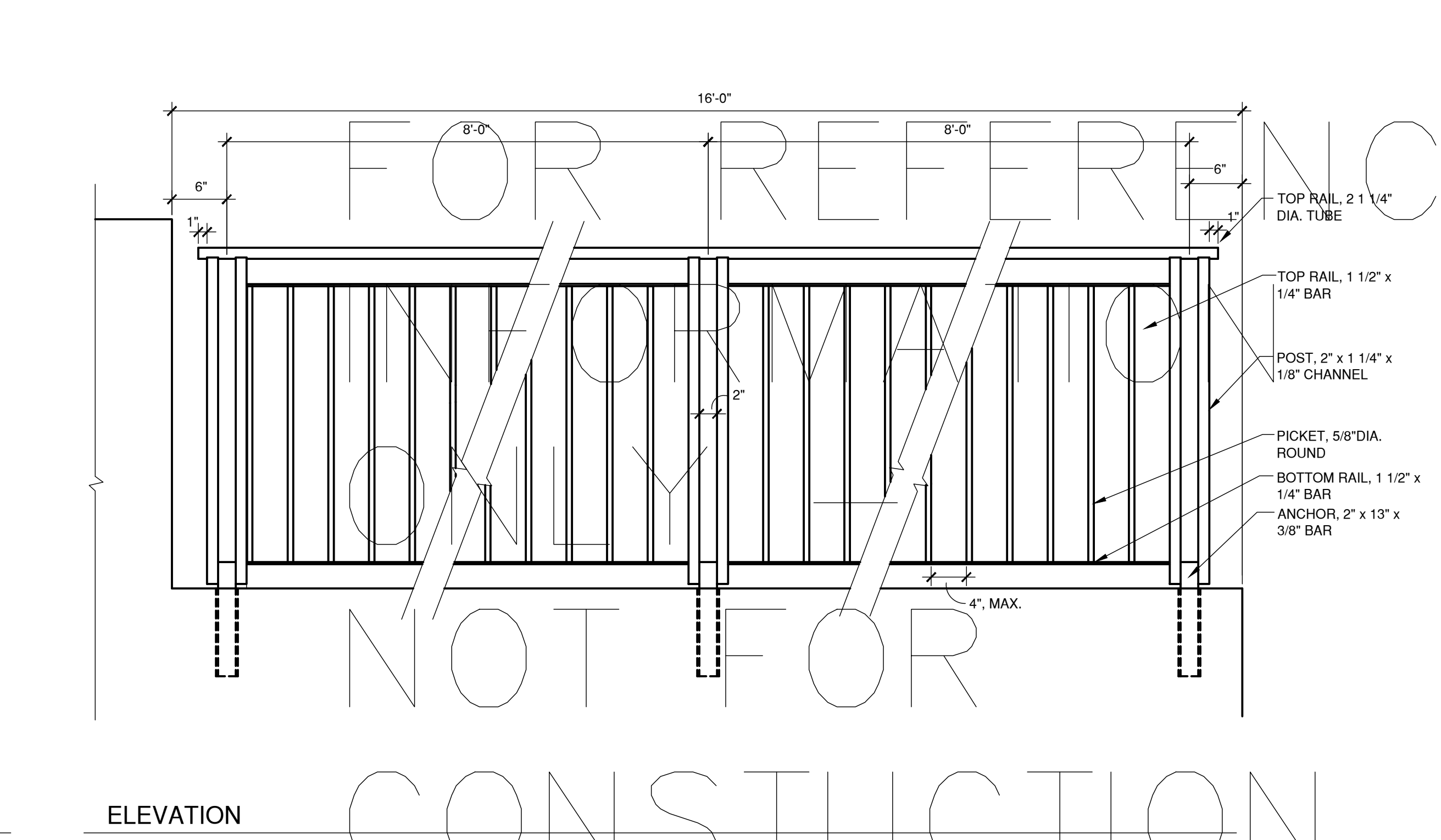
1 CURVING LIMESTONE ENTRY WALLS
L702
Scale: 1"=1'-0"



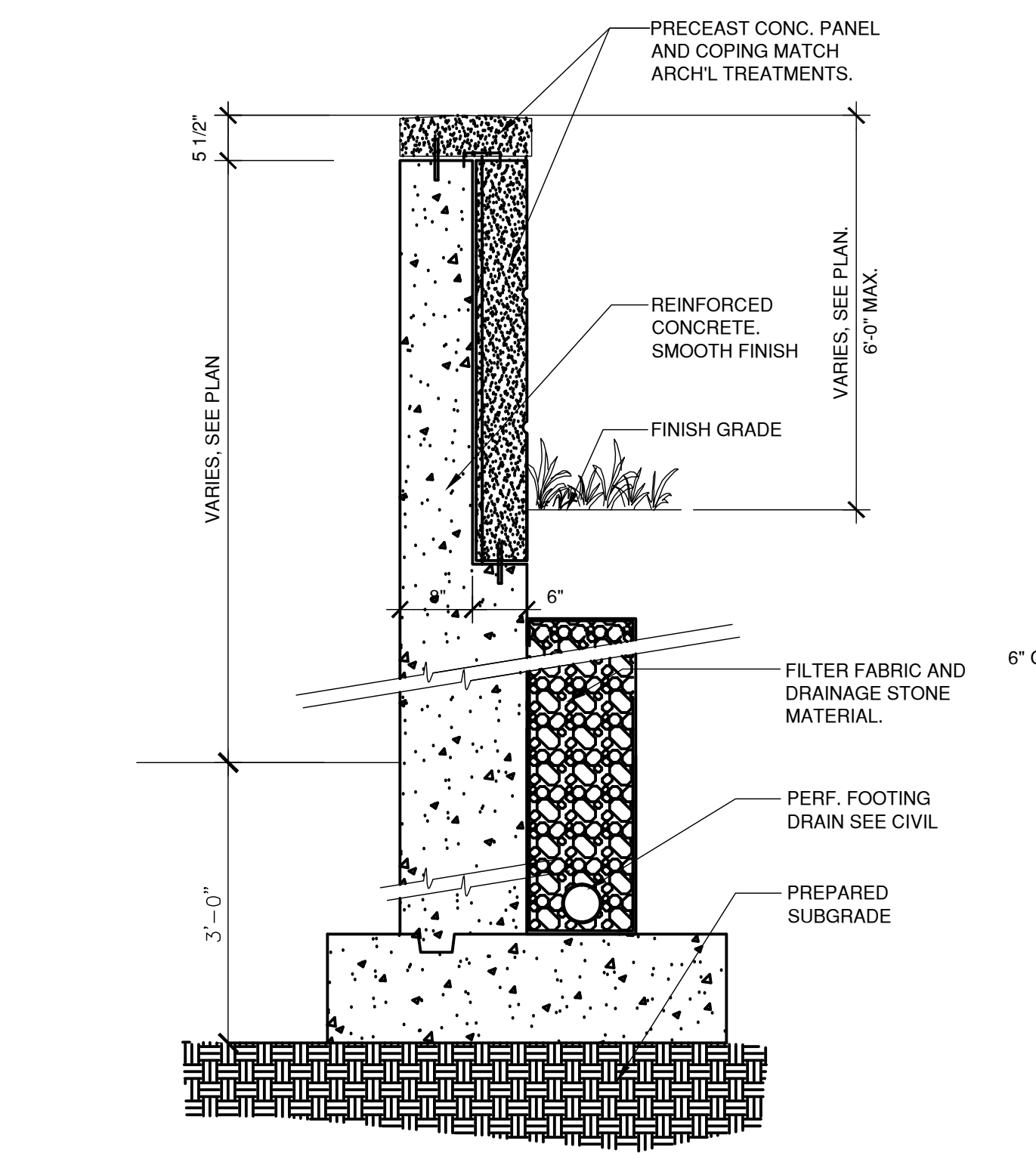
5 METAL SAFETY RAIL AT LOADING DOCK RETAINING WALL
L702
Scale: 1/2"=1'-0"



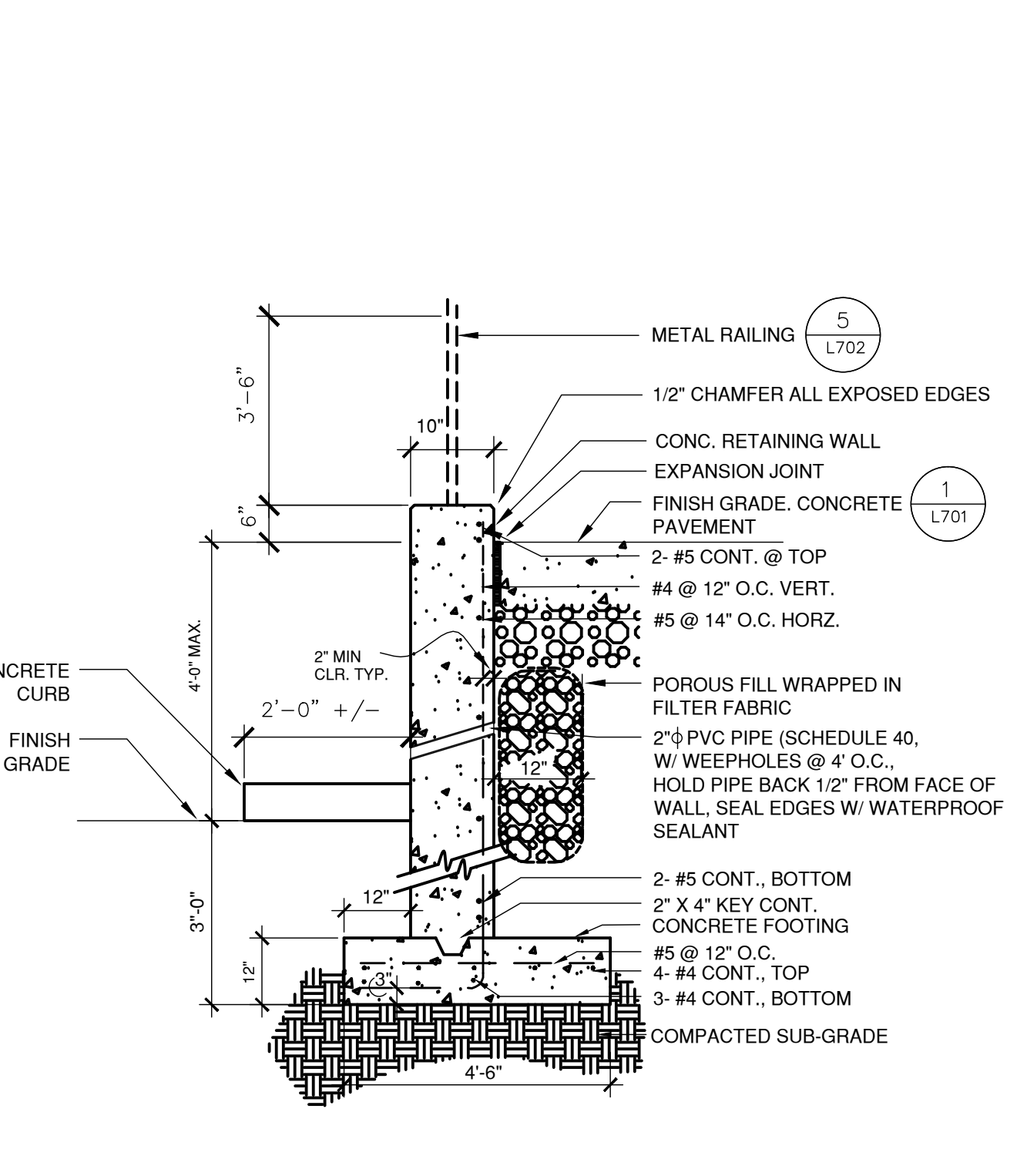
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L702
Scale: 1/2"=1'-0"



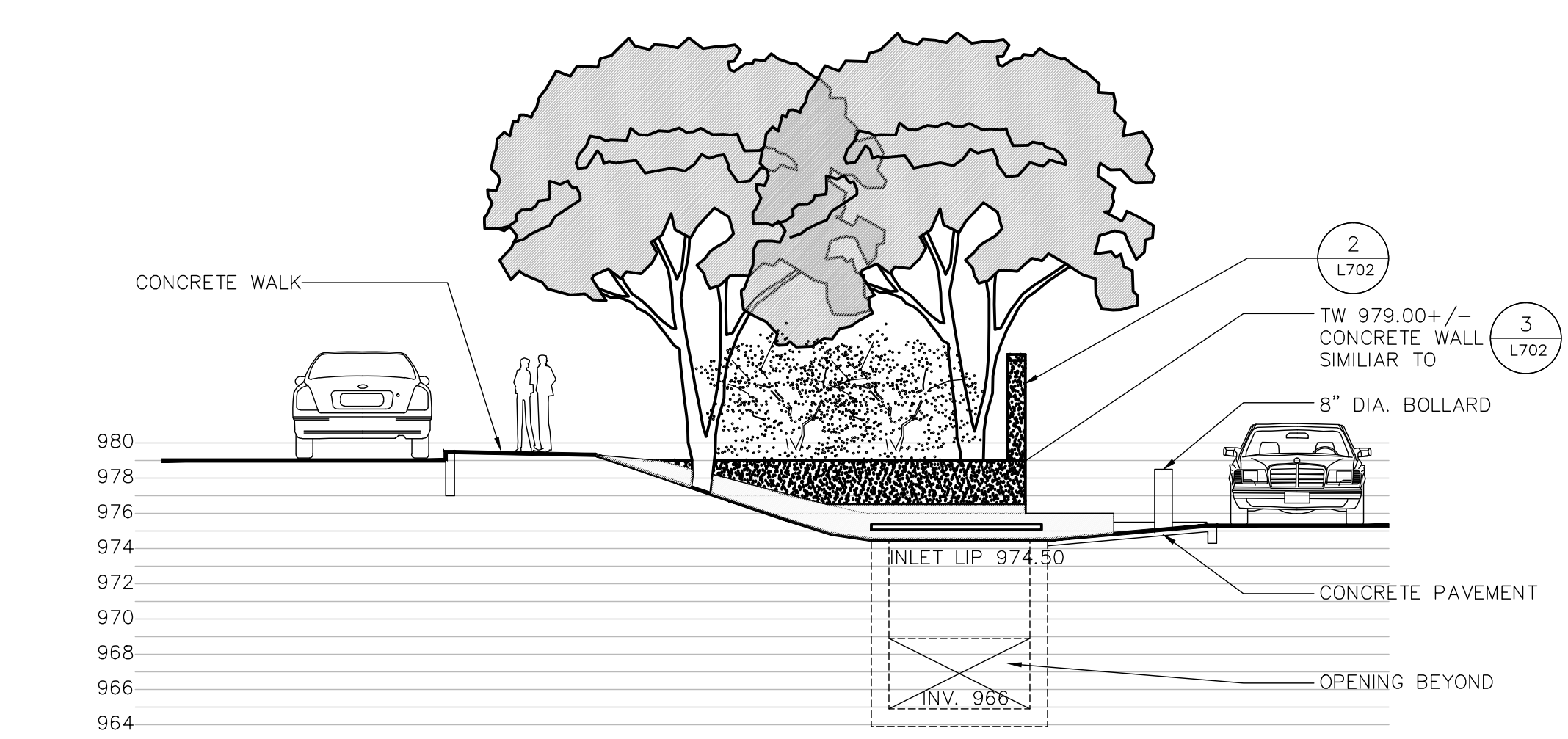
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L702
Scale: 1/2"=1'-0"



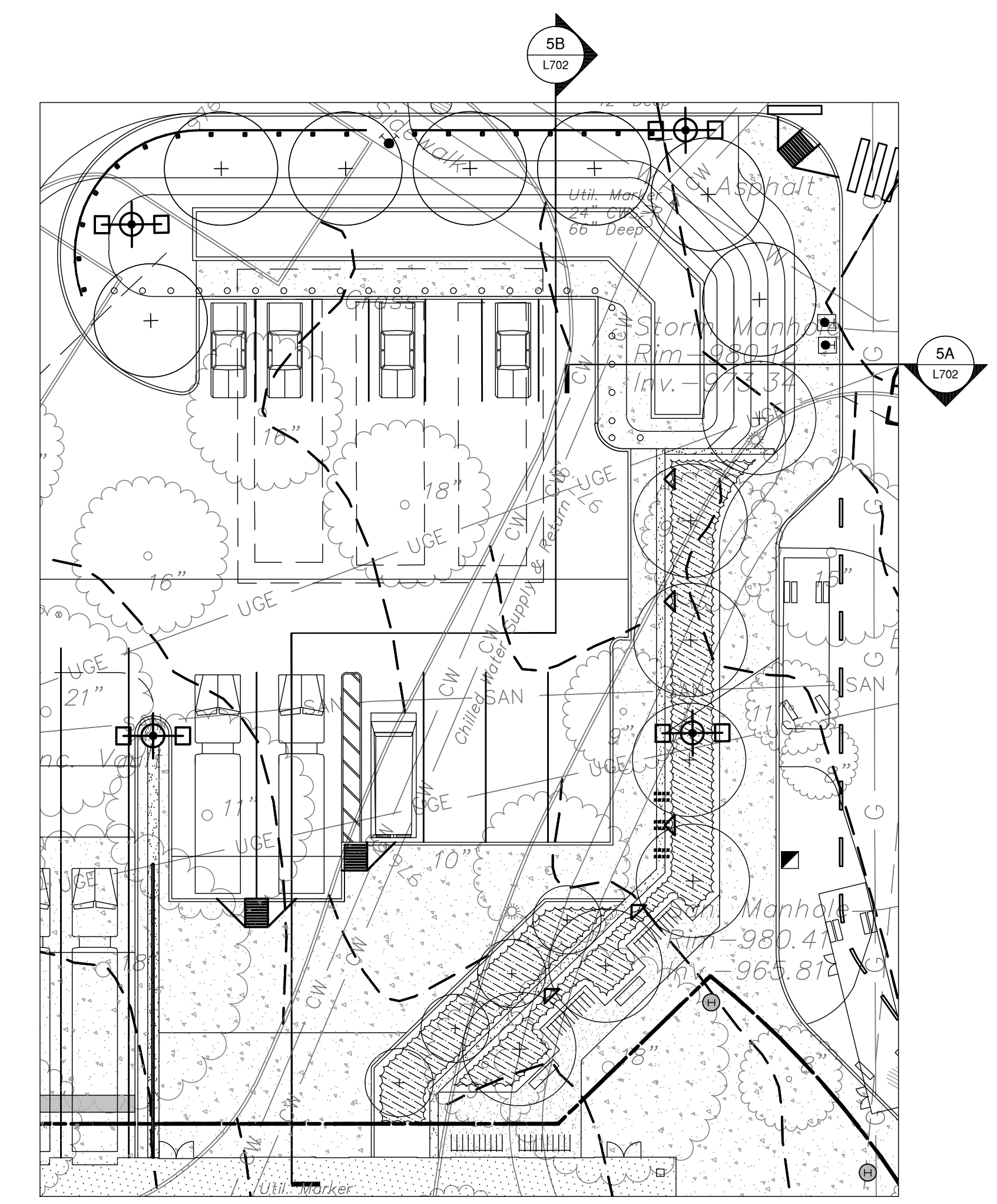
2 SCREEN WALL AT STAFF ENTRY
L702
Scale: 1/2"=1'-0"



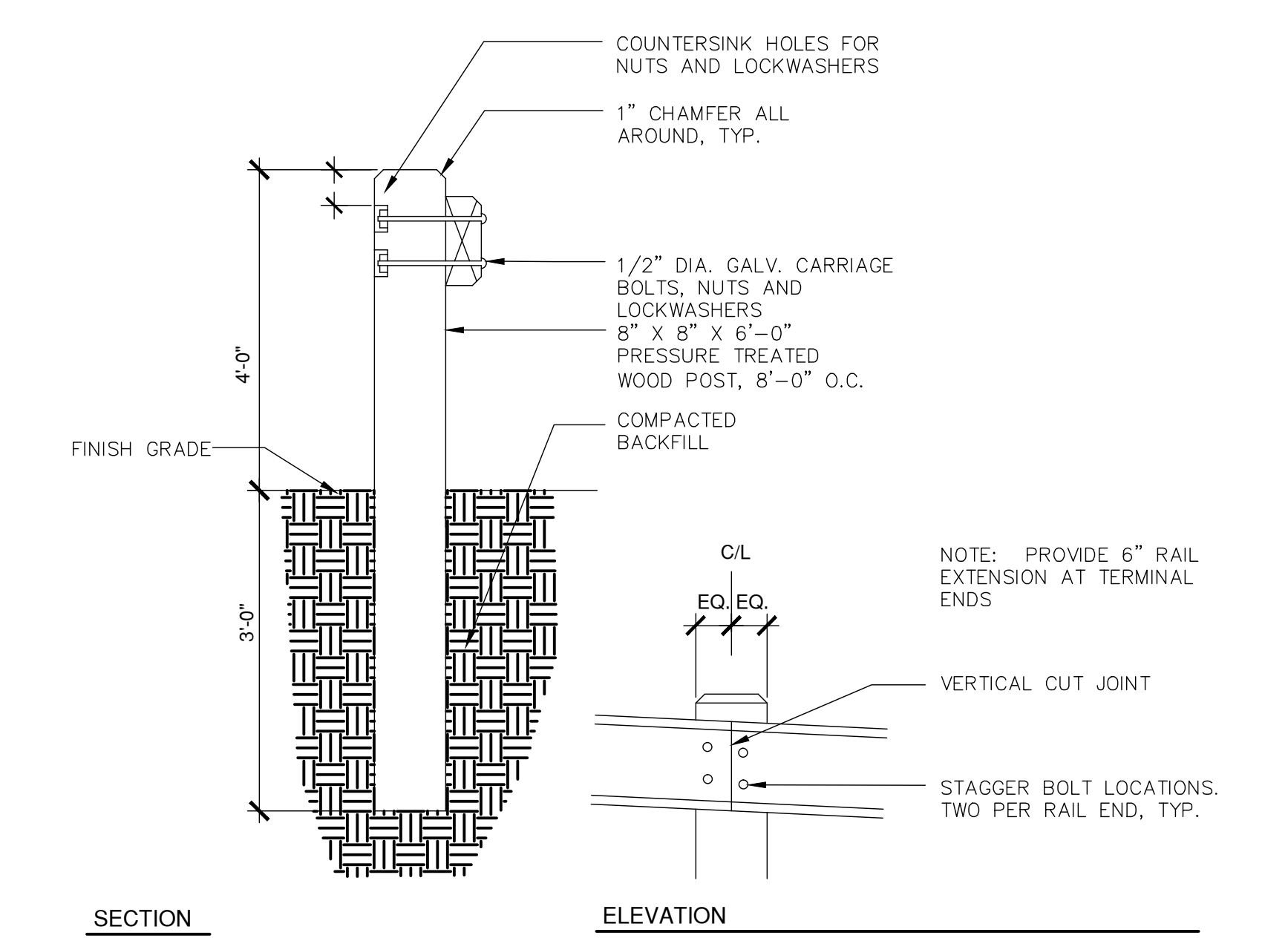
3 LOADING DOCK RETAINING WALL
L702
Scale: 3/4"=1'-0"



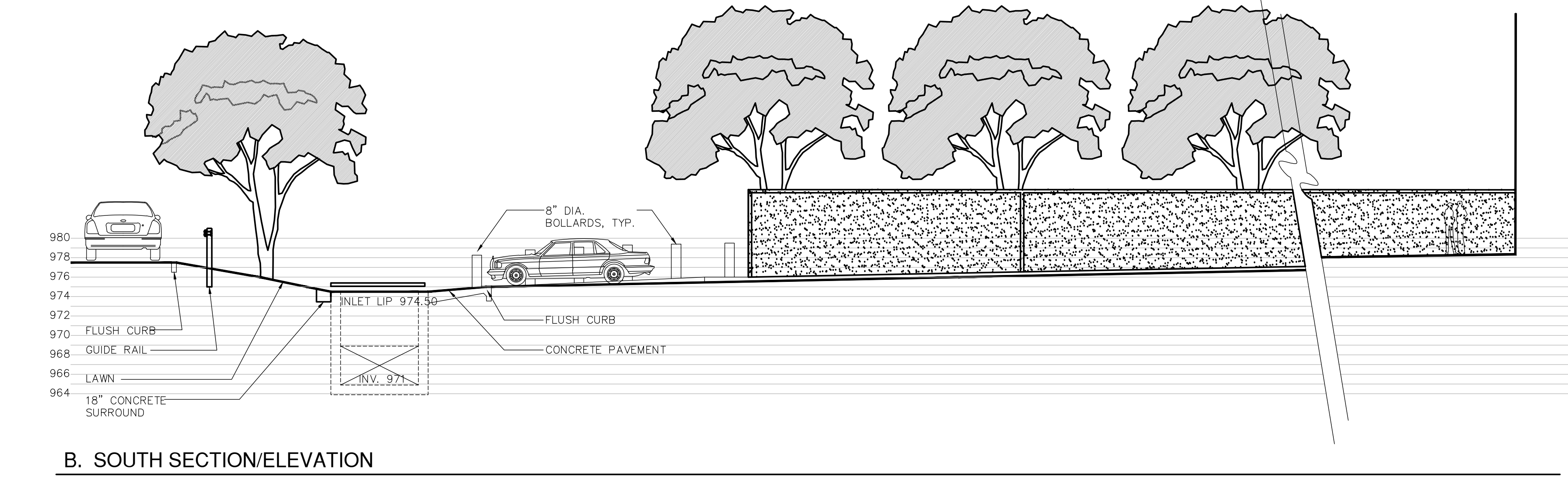
A. WEST SECTION/ELEVATION
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KEY PLAN - CONCRETE WALL AND STORM INLET AT STAFF ENTRY/LOADING DOCK
Scale: 1"=20'-0"

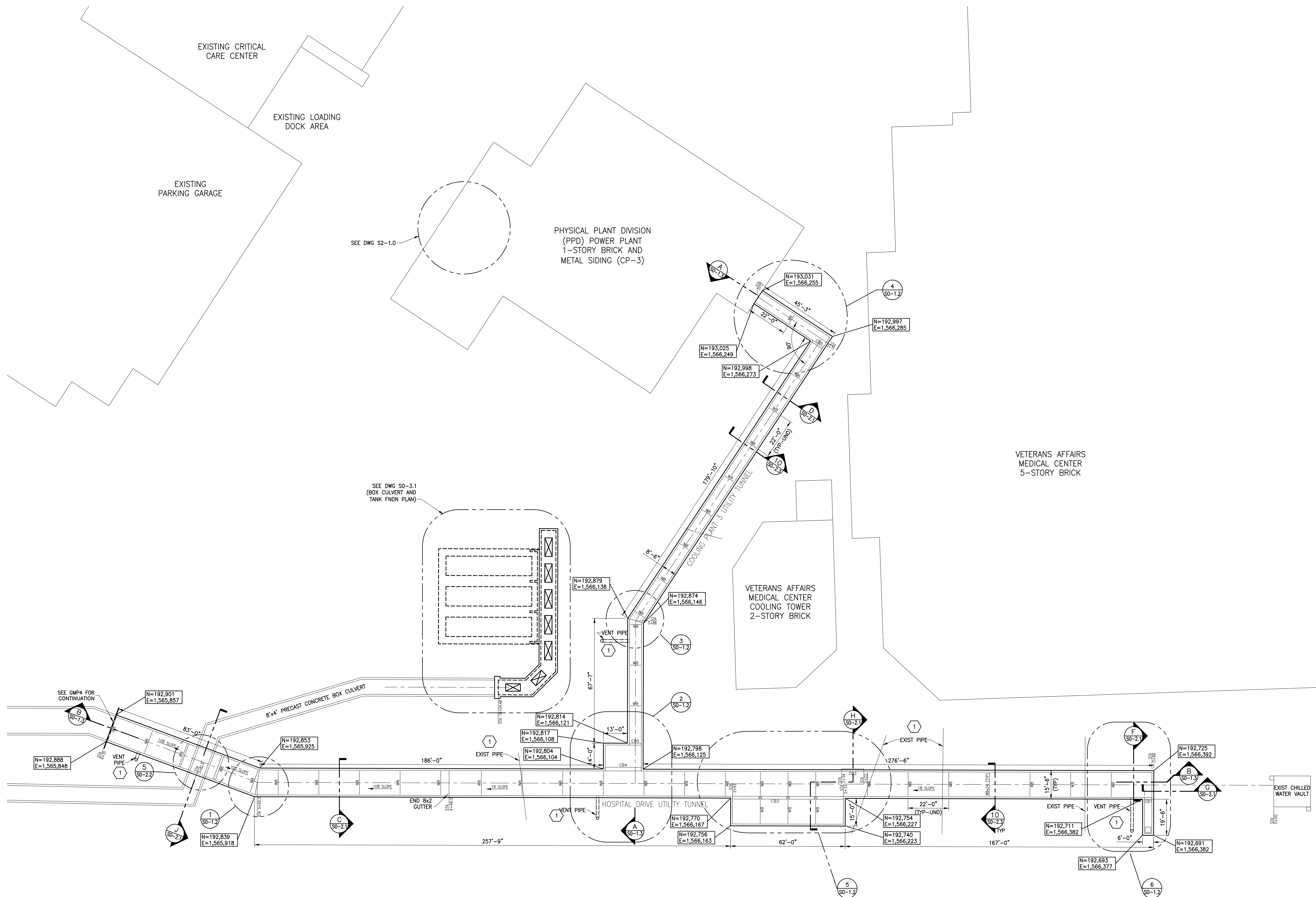


4 GUIDE RAIL
L702
Scale: 3/4"=1'-0"



5 CONCRETE WALL AND STORM INLET AT STAFF ENTRY/LOADING DOCK
L702
Scale: 1 1/2"=1'-0"

No.	Date	Description
1	08.11.06	CMP-4,5 SD REVIEW SUBMITTAL
2	08.11.06	60X DD PRINTING
3	11.21.06	100X DD PRINTING
4	12.18.06	FINAL DD DOCUMENTS
5	02.15.07	BP-3B - FOR REFERENCE
RD-1	08/01/11	RECORD DRAWINGS



GENERAL NOTES:
 1. STATION MARKS ARE MEASURED ALONG TUNNEL CENTERLINE.

DRAWING NOTES:
 1. SEE UTILITY AND MECH DWGS FOR LOCATION AND ELEVATION.

UTILITY TUNNEL-PLAN
 SCALE: 1"=20'

W8x24 LOCATIONS (STA)

HOSPITAL DRIVE UTILITY TUNNEL	COOLING PLANT 3 UTILITY TUNNEL
0+88	3+63
1+10	3+85
1+32	4+07
1+54	4+29
1+76	4+51
1+98	4+73
2+20	4+95
2+48	5+17
2+63	5+39
2+78	5+52
2+97	5+72
3+19	5+93
3+41	6+13
	6+34



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ELLERBE BECKET



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Construct Patient Care Facility

UK # 2239.3B

BP - 3B

INFRASTRUCTURE

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Drawing Issue:

RECORD DRAWINGS

No.	Date	Description
1	02-15-07	CONTRACT DOCUMENT ISSUE
	08-21-09	RECORD DRAWINGS
RD-1	09-01-11	RECORD DRAWINGS

Drawing Title:

**STRUCTURAL
 HOSPITAL DRIVE
 UTILITY TUNNEL
 PLAN**

GBBN Job No:	10247.04
Job No:	03350
CAD File:	s0-1.1.dwg
Scale:	1"=20'
Date:	02-15-07

S0-1.1

GENERAL NOTES FOR TUNNELS

- IT IS SOLELY THE RESPONSIBILITY OF OTHERS TO DETERMINE ERECTION PROCEDURE AND SEQUENCE, AS WELL AS TO PROVIDE FOR THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS, TIE DOWNS, OR DETERMINING WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.
- IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
- ALL ELEVATIONS GIVEN ON THE DRAWINGS ARE BASED ON SURVEY DATA ACQUIRED BY FULLER MOSSBARGER SCOTT AND MAY ENGINEERS FOR USE ON THIS PROJECT. ALL DIMENSIONS AND ELEVATIONS PERTAINING TO EXISTING CONSTRUCTION TO BE FIELD VERIFIED BEFORE STARTING ANY WORK OR FABRICATION. EXISTING FLOOR ELEVATIONS SHOWN ARE NOMINAL AND MAY VARY DUE TO CONSTRUCTION TOLERANCES.
- CONTRACTOR IS RESPONSIBLE TO CORRECT ANY DAMAGE TO EXISTING WORK THAT OCCURS DURING, OR AS A RESULT OF, CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR REMOVING FROM THE SITE ANY DEBRIS RESULTING FROM DEMOLITION, CONSTRUCTION, ETC. PERTAINING TO THIS CONTRACT.
- SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, SPECIFICATIONS, OR EACH OTHER, IT SHALL BE ASSUMED THAT THE STRICTEST PROVISION SHALL GOVERN, AND A WRITTEN REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED THE E/A VIA THE OWNER'S DESIGNATED CONSTRUCTION REPRESENTATIVE. ADDITIONALLY, ALL ITEMS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, OR AMBIGUITIES IN THE PLANS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONSTRUCTION REPRESENTATIVE VIA A WRITTEN RFI. CONTRACTOR SHALL SUBMIT RFI PRIOR TO COMMENCING WITH AFFECTED WORK AND SHALL AWAIT THE CONSTRUCTION REPRESENTATIVE'S APPROVAL—TO—PROCEED PRIOR TO PERFORMING WORK.
- STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH THE OTHER DRAWINGS RELEASED FOR THE PROJECT. CONTRACTOR TO COORDINATE, TO THE EXTENT POSSIBLE, SUCH INTERRELATIONSHIPS IN PROJECT SHOP DRAWINGS AND FIELD WORK.
- DO NOT SCALE THESE DRAWINGS, USE DIMENSIONAL DATA PROVIDED.
- SOIL/STRUCTURE INTERACTION AND SOIL PREPARATION INFORMATION:
 - OUTSIDE WALLS OF CONCRETE STRUCTURES ARE REINFORCED AS CANTILEVER RETAINING WALLS. DO NOT BACKFILL AGAINST WALLS UNTIL CONCRETE HAS ATTAINED TWENTY-EIGHT (28) DAY STRENGTH OR UNLESS SHORING EQUAL TO, OR GREATER THAN, SAID SLAB SUPPORT IS PROVIDED. USE OF HIGH EARLY STRENGTH CONCRETE IS ALLOWED AND A CORRESPONDING REDUCTION IN TIME FOR CURING WILL BE ALLOWED.
- TUNNEL DESIGN LOADS AND DESIGN PARAMETERS:

SOIL UNIT WEIGHT	= 120 lbs/ft ³
EQUIVALENT FLUID PRESSURE	= 30 lbs/ft ²
INTERNAL LOADING	= NONE (EXCEPT FOR PIPE REACTIONS)
LIVE LOAD	= AASHTO H20 TRUCK
- PRECAST TUNNEL ROOF DESIGN LOADS: SUPERIMPOSED SOIL WEIGHT AND TRUCK LOADING
 - STATION 0+66 (BEGIN) TO 5+06 UNIFORM LL=1250 PSF
 - STATION 5+06 TO 6+35 (END) UNIFORM LL=1950 PSF
- EXCAVATE BEDROCK AS REQUIRED TO INSTALL VAULT. OWNER AND ENGINEER OF RECORD MAKE NO CLAIM AS TO THE ACTUAL TOP OF ROCK EXCAVATION. REFER TO GEOTECHNICAL REPORT FOR INFORMATION REGARDING ROCK ELEVATION AND TYPE.

REINFORCED CONCRETE NOTES FOR TUNNELS

- MATERIALS:
 - SEE SPECIFICATIONS FOR DETAILED REQUIREMENTS RELATED TO THE CONCRETE TO BE USED ON THIS PROJECT.
 - STRUCTURAL CONCRETE OVERVIEW - SEE SPECS FOR SPECIFIC INFO

LOCATION	f' _c (PSI)
GENERAL CONCRETE STRENGTH	5000
BACKFILL BELOW FOOTINGS, CONCRETE FILL IN STRUCTURES	1500
 - ALL DEFORMED REINFORCING BARS: ASTM A615, F_y = 60,000 P.S.I.
 - WELDED WIRE FABRIC: ASTM A185
- FIELD MANUAL:

PROVIDE AT LEAST ONE COPY OF THE LATEST ACI FIELD REFERENCE MANUAL, SP-15, IN THE FIELD OFFICE AT ALL TIMES.
- CONTINGENCIES:

PROVIDE LEAN CONCRETE UNDER TUNNEL FLOOR SLAB FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS, AND TRENCHES.
- WALLS AND SLABS:
 - DOWELS IN FOOTINGS TO MATCH VERTICAL PIER OR WALL REINFORCING, U.N.O.
 - PROVIDE CORNER BARS AT WALL AND FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING, MINIMUM LENGTH OF EACH LEG = 45 BAR DIAMETERS. PLACE AS PER DETAILS, UNO.
 - REINFORCING LAP SPLICE AND EMBEDMENT LENGTH

BAR SIZE	MIN. LAP LENGTH (IN.)		MIN. EMB. LENGTH (IN.)	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	21	16	16	8
#4	28	21	21	11
#5	35	27	27	14
#6	42	32	32	16
#7	49	37	37	19
#8	58	43	43	22
#9	74	57	57	25
#10	84	72	72	28
#11	116	89	89	31

- GENERAL USE IN ENCLOSED MEMBERS
- THE MINIMUM LENGTH OF LAPS FOR SPLICES SHALL BE AS GIVEN IN THE TABLE FOR CLASS "A" LAPS. PROVIDE CLASS "B" LAPS FOR ALL WALL REINFORCEMENT OR AS REQUIRED BY ACI 318 (AS NOTED ON DRAWINGS).
- CONSTRUCTION JOINTS: CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER. ALL CONSTRUCTION JOINTS ARE TO BE KEYPED, WITH DOWELS AND WATERSTOP, AS DETAILED.
- CHAMFER: PROVIDE 3/4" CHAMFER AT ALL EXPOSED EDGES OF CONCRETE, U.N.O.
- MISCELLANEOUS:
 - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENINGS AND COORDINATE WORK WITH THE OWNER'S CONSTRUCTION REPRESENTATIVE AND OTHER TRADES. IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL.
 - ANCHOR BOLTS, SUPPORT ANGLES, ETC. BELOW GRADE SHALL BE COATED WITH 1/8" MASTIC AND COVERED WITH A MINIMUM OF 3" CONCRETE.

STRUCTURAL STEEL NOTES FOR TUNNELS

- MATERIALS:
 - W-SHAPE MEMBERS: ASTM A572, F_y=50 KSI, AND PER AISC TECHNICAL BULLETIN #3 (OR ASTM A992), AND ASTM 6
 - CHANNELS, M-SHAPES, S-SHAPES: ASTM A572, F_y=50 KSI, AND ASTM 6
 - HOLLOW STRUCTURAL SHAPES (DESIGNATED AS HSS OR THS): ASTM 500, GRADE B, (ROUND HSS -> F_y=42 KSI) (SQUARE & RECTANGULAR HSS -> F_y = 46 KSI)
 - TEES: SAME MATERIAL OF THE FULL SECTIONS THAT WAS SPLIT TO MAKE THE TEE SECTION
 - MISC. STEEL, PLATES, AND ANGLES: ASTM A36 F_y=36 KSI, OR ASTM A572, GRADE 42 WHERE NOTED ON THE DRAWINGS, AND ASTM A6
 - HIGH STRENGTH BOLTS: ASTM A325 OR A490
 - ANCHOR BOLTS: ASTM A307 OR ASTM F1554, GRADE 55
 - ELECTRODES: E70XX
 - SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- STANDARDS AND CODES:

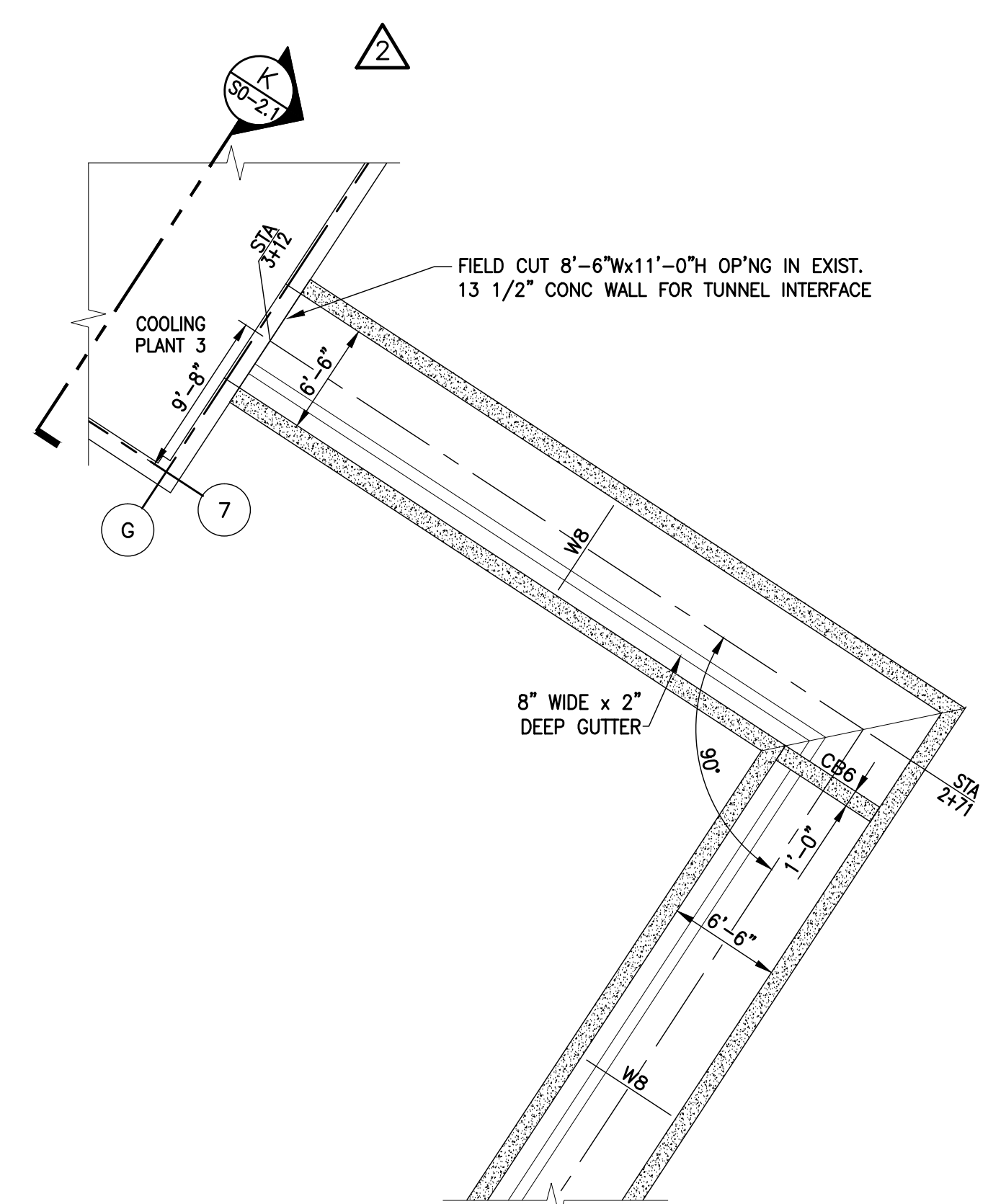
WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D1.1 UNLESS SPECIFICALLY SHOWN OTHERWISE. DESIGN, FABRICATION, AND ERECTION TO BE GOVERNED BY THE LATEST REVISIONS OF:

 - AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
 - STRUCTURAL WELDING CODE, AWS D1.1 OF THE AMERICAN WELDING SOCIETY.
 - RCS SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR 490 BOLTS.
 - SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- CONNECTIONS:
 - CONNECTIONS MAY BE BOLTED OR WELDED. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF CONNECTIONS NOT DESIGNED ON THE DRAWINGS. GENERALLY, CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. ANY CONNECTION THAT IS NOT SHOWN OR IS NOT COMPLETELY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY AN ENGINEER, REGISTERED IN THE STATE OF KENTUCKY, RETAINED BY THE FABRICATOR. IT IS THE RESPONSIBILITY OF THE FABRICATOR TO PROVIDE ALL STIFFENER PLATES, ETC., THAT MAY BE REQUIRED IN ADDITION TO THOSE SHOWN ON THE STRUCTURAL SCHEMATIC DETAILS TO ENSURE THAT THE MEMBERS CONNECTED TOGETHER HAVE ADEQUATE STRENGTH AT THE CONNECTION. COMPLETELY DETAILED DETAILS PROVIDING THE FOLLOWING INFORMATION ON THE DETAIL.
 - ALL PLATE DIMENSIONS AND GRADES
 - ALL WELD SIZES, LENGTHS, PITCHES AND RETURNS
 - ALL HOLE SIZES AND SPACINGS.
 - NUMBER AND TYPES OF BOLTS
 - DESIGN CALCULATIONS, SEALED BY FABRICATOR'S REGISTERED ENGINEER, FOR ALL BEAM AND GIRDER CONNECTIONS, AND ALL PRIMARY BRACING AND HANGER CONNECTIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

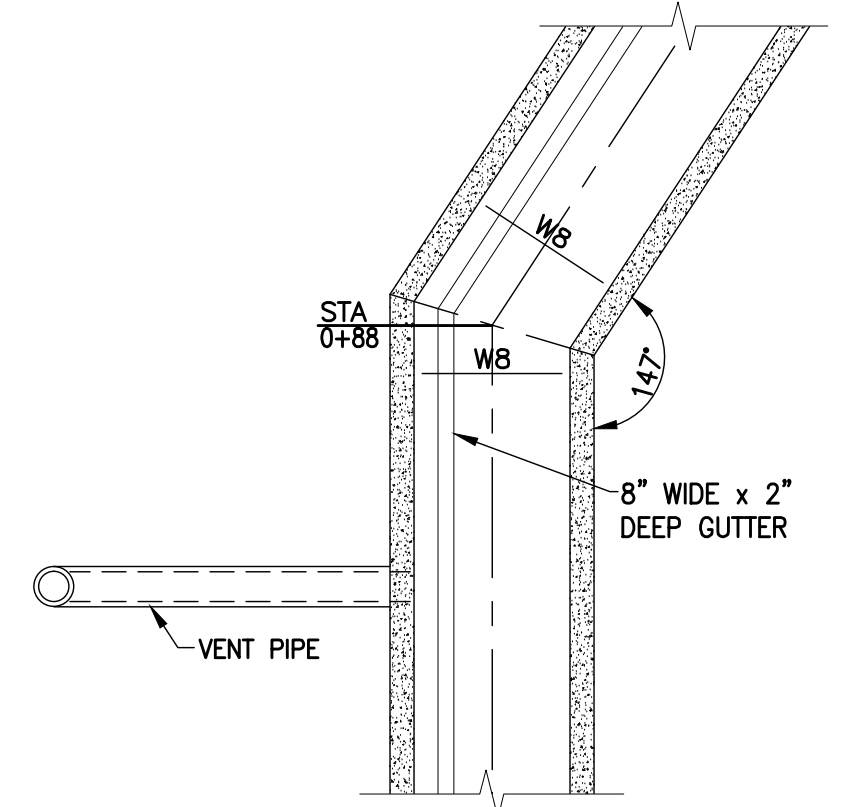
- CONNECTIONS SHALL BE DESIGNED FOR ONE-HALF OF THE ALLOWABLE LOAD ON THE MEMBER, AS DEFINED IN THE AISC TABLES FOR ALLOWABLE LOADS ON BEAMS AS W_c/2L OR THE REACTIONS SHOWN ON THE DRAWINGS, WHICHEVER IS GREATER.
- THE MINIMUM PLATE THICKNESS SHALL BE 3/8", THE MINIMUM BOLT DIAMETER SHALL BE 3/4", THE MINIMUM WELD SHALL BE 1/4" AND THE MINIMUM LOAD ON ANY CONNECTION SHALL BE 10 KIPS.
- BOLTED CONNECTIONS SHALL BE BEARING TYPE USING A325N OR A490N BOLTS. OVERSIZED HOLES AND LONG-SLOTTED HOLES ARE NOT ALLOWED UNLESS SHOWN ON THE DRAWINGS.
- PROTRUDING BOLT HEADS OR NUTS SHALL NOT EXTEND INTO NOR PROHIBIT THE INSTALLATION OF MECHANICAL PIPING, VALVES, JOINTS, EQUIPMENT, ETC.
- SHOP DRAWINGS SHALL INDICATE THE TYPE OF BOLT USED IN EACH CONNECTION AND THE ALLOWABLE VALUES USED FOR THE VARIOUS BOLT TYPES.
- FABRICATOR SHALL PROVIDE FILLER PLATES BETWEEN ALL DOUBLE ANGLES DOES NOT CONTROL.
- SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
- MISCELLANEOUS:
 - ALL SUPPORT FRAMING STEEL & ASSOCIATED CONNECTION PLATES & ANGLES SHALL BE HOT-DIPPED GALVANIZED.
 - PROVIDE HOLES FOR OTHERS AS NOTED. IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL.
 - STEEL SUPPORTING OR CONNECTING TO MECHANICAL AND OTHER EQUIPMENT AS SHOWN ON DRAWINGS IS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL RECONCILE EXACT SIZE AND LOCATION WITH MECH. AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH HIS WORK.
 - GROUT UNDER BEARING PLATES TO BE NON-SHRINKING, NON-METALLIC TYPE.
 - PROVIDE HEAVY WASHER @ ALL ANCHOR BOLTS.
 - NO CHANGE IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS SHALL BE MADE AND HOLES, SLOTS, CUTS, ETC., ARE NOT PERMITTED THROUGH ANY MEMBER UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS.
 - FABRICATE ALL BEAMS WITH THE MILL CAMBER UP.

1/2" -->	SHEAR = 2080 LBS., TENSION = 1380 LBS.
3/4" -->	SHEAR = 4280 LBS., TENSION = 2540 LBS.
 - EXPANSION BOLTS SHALL HAVE THE FOLLOWING MINIMUM SERVICE LOAD CAPACITY WHEN DRILLED INTO CONCRETE WITH A MINIMUM DESIGN STRENGTH OF 3500PSI:

1/2" -->	SHEAR = 2080 LBS., TENSION = 1380 LBS.
3/4" -->	SHEAR = 4280 LBS., TENSION = 2540 LBS.
 - SERVICE LOAD CAPACITIES SHALL PROVIDE FOR A MINIMUM FACTOR OF SAFETY OF 4.

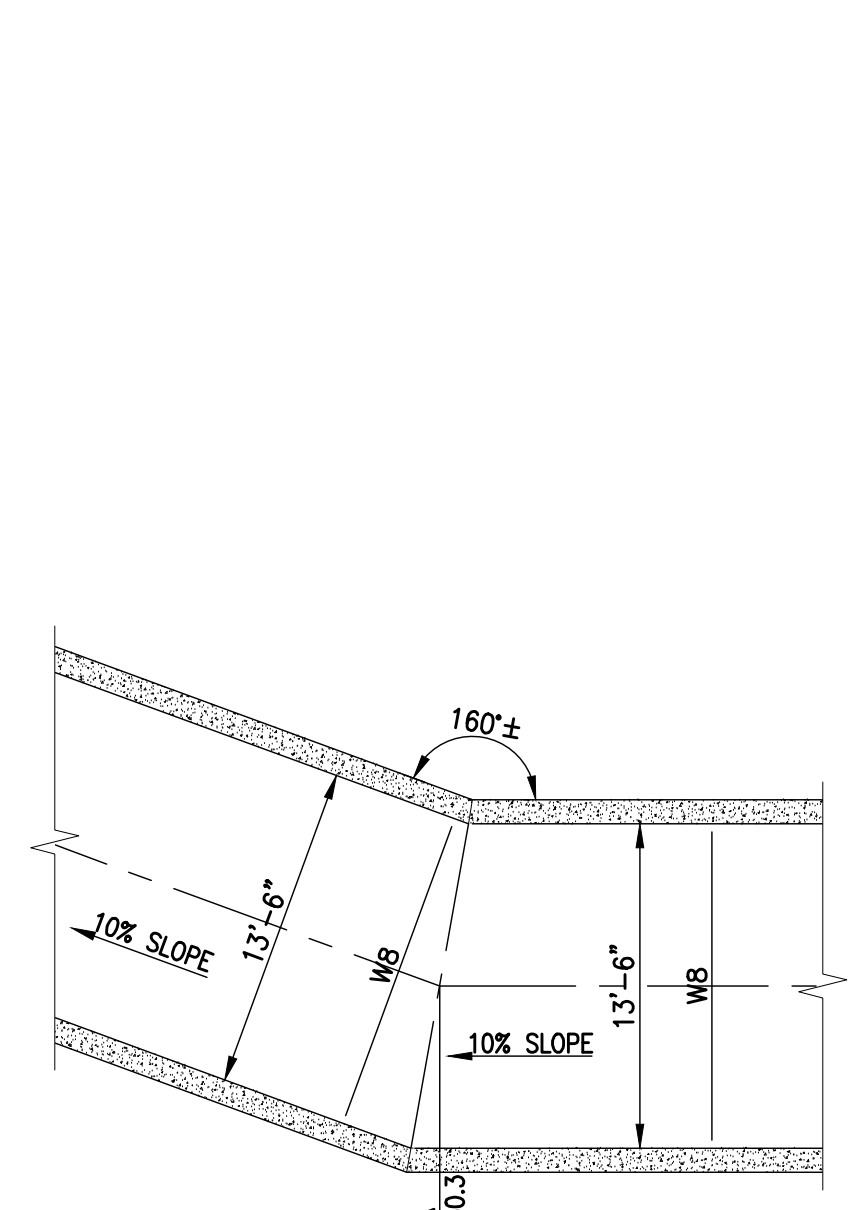


4 ENLARGED PLAN
SCALE: 1/8" = 1'-0"

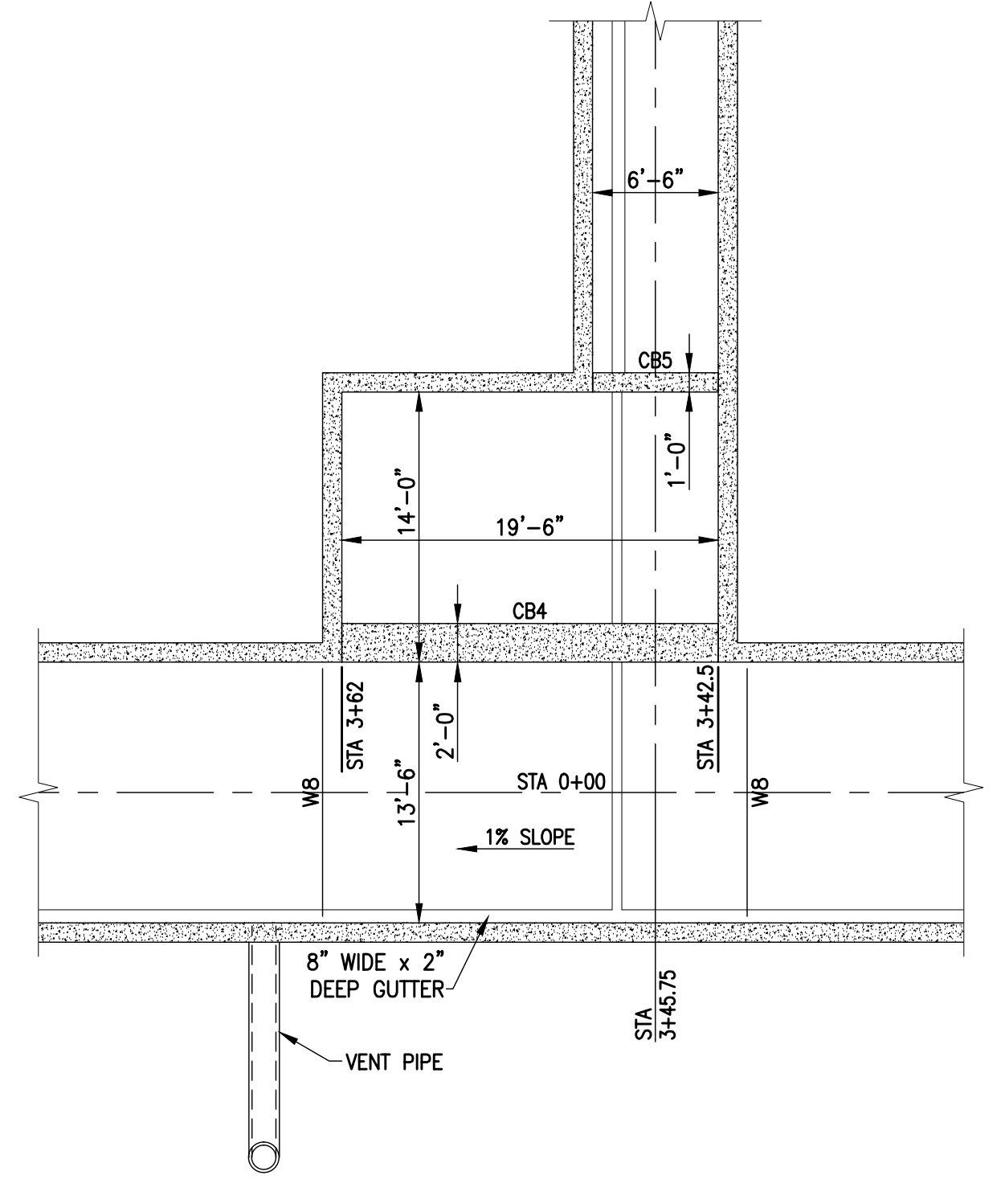


3 ENLARGED PLAN
SCALE: 1/8" = 1'-0"

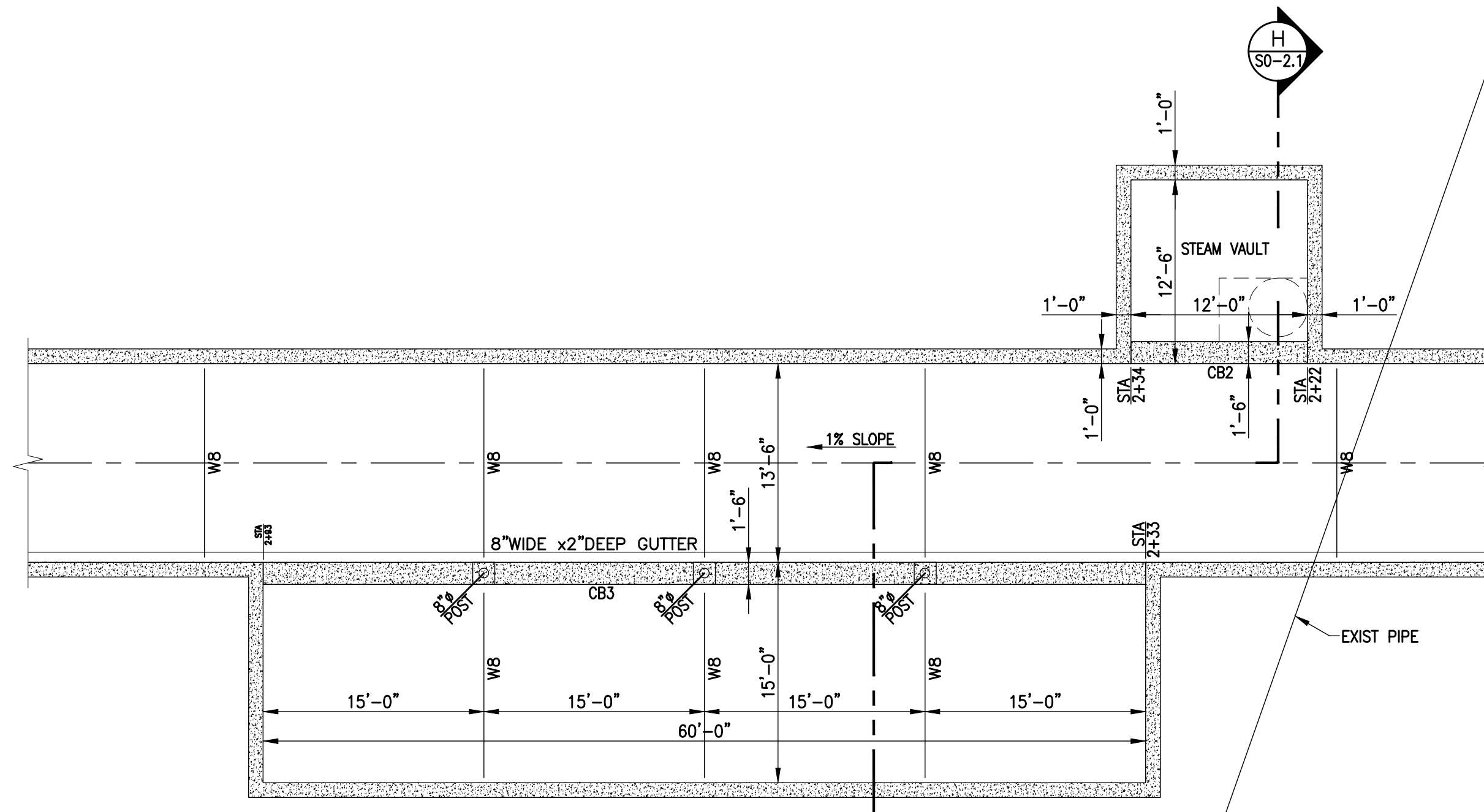
BEAM ID	SIZE (IN)	DEPTH	STEEL TOP	STEEL BOTTOM	STIRRUPS
CB1	12	12	(2) #4	(4) #4	#3 @6"O.C.
CB2	18	24	(5) #8	(6) #9	#4 @7"O.C.
CB3	18	24	(6) #8	(6) #9	#3 @6"O.C.
CB4	24	24	(6) #8	(9) #9	#4 @9"O.C.
CB5	12	16	(3) #6	(4) #6	#4 @9"O.C.
CB6	12	12	(2) #6	(3) #6	#3 @10"O.C.



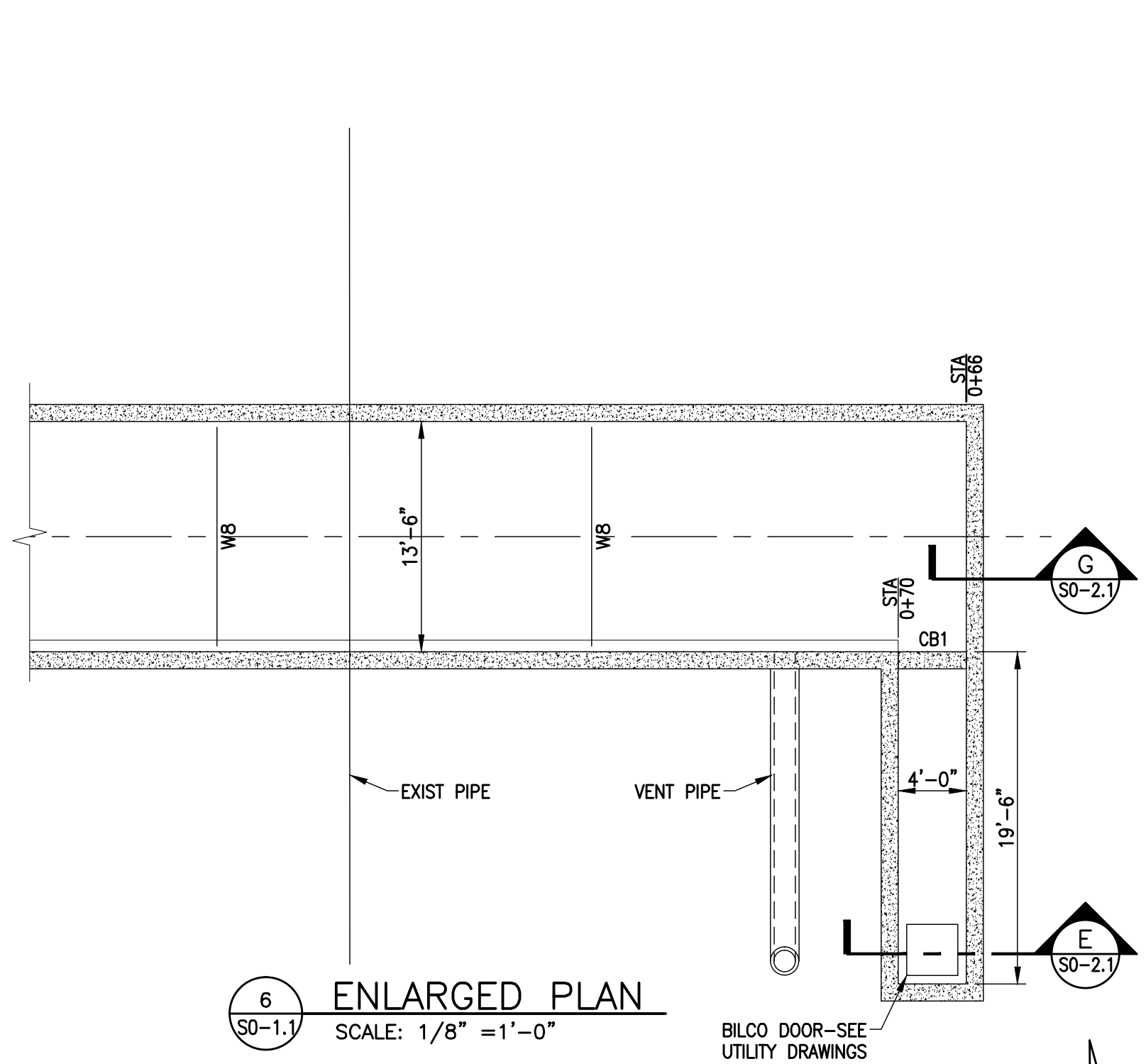
1 ENLARGED PLAN
SCALE: 1/8" = 1'-0"



2 ENLARGED PLAN
SCALE: 1/8" = 1'-0"



5 ENLARGED PLAN
SCALE: 1/8" = 1'-0"



6 ENLARGED PLAN
SCALE: 1/8" = 1'-0"

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AND

CONSULTANT

UK # 2239.3B
BP - 3B
INFRASTRUCTURE

S0-1.2

RECORD DRAWINGS

No.	Date	Description
1	02-15-07	CONTRACT DOCUMENT ISSUE
2	03-09-07	ADDENDUM NO. 3 ISSUE
	08-21-09	RECORD DRAWING
RD-1	09-01-11	RECORD DRAWINGS

Drawing Title:
STRUCTURAL HOSPITAL DRIVE UTILITY TUNNEL ENLARGED PLANS & NOTES

GBBN Job No:	10247.04
Job No:	03350
CAD File:	s0-1.2.dwg
Scale:	AS NOTED
Date:	02-15-07



CONSULTANT

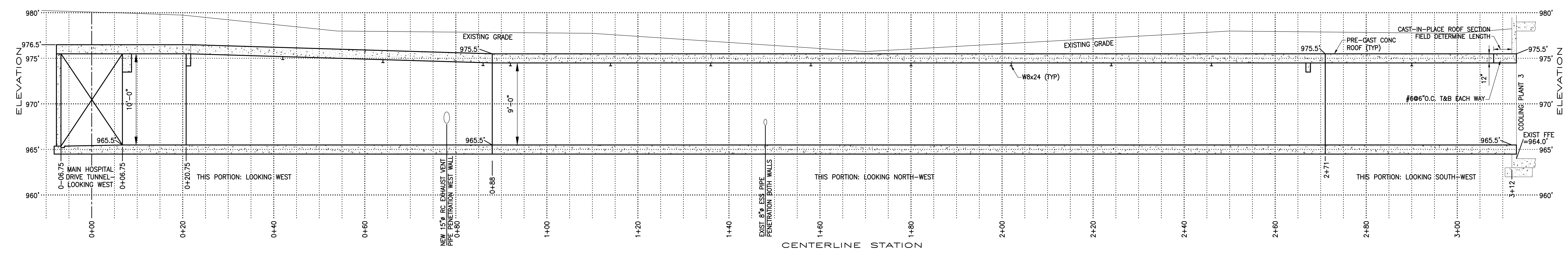
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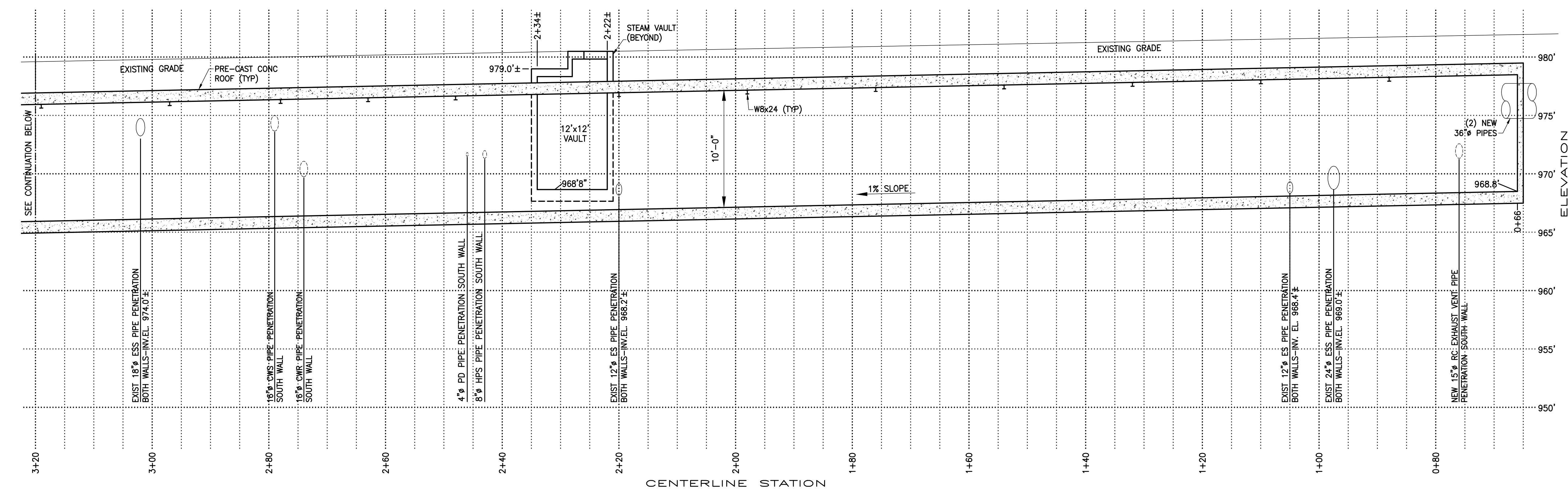
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RD-11	09-01-11	RECORD DRAWINGS

Drawing Title:
**STRUCTURAL
HOSPITAL DRIVE
UTILITY TUNNEL
ELEVATIONS**

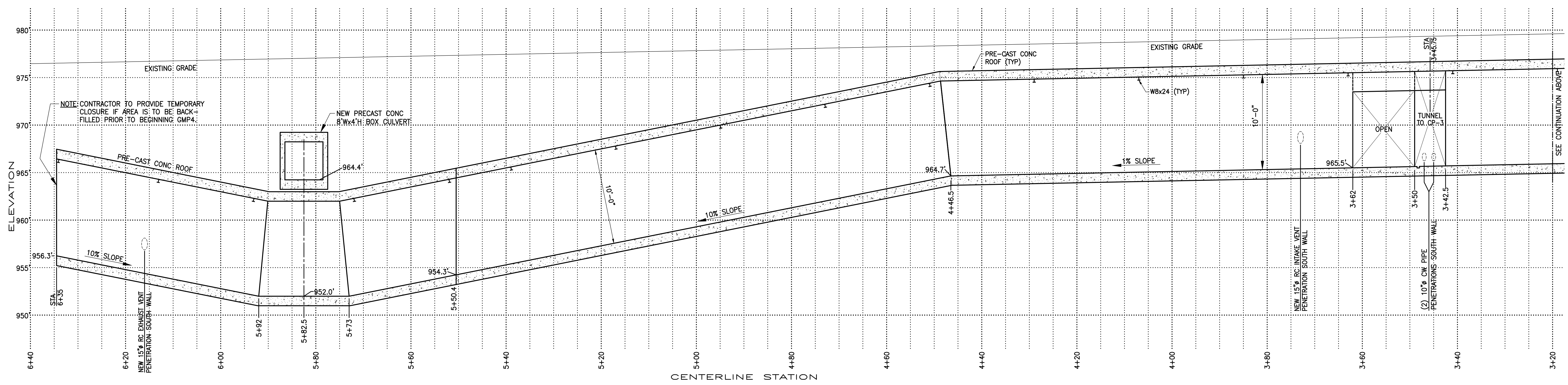
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Job No:	03350
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A
COOLING PLANT 3 UTILITY TUNNEL
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=5'
LOOKING NORTH-WEST

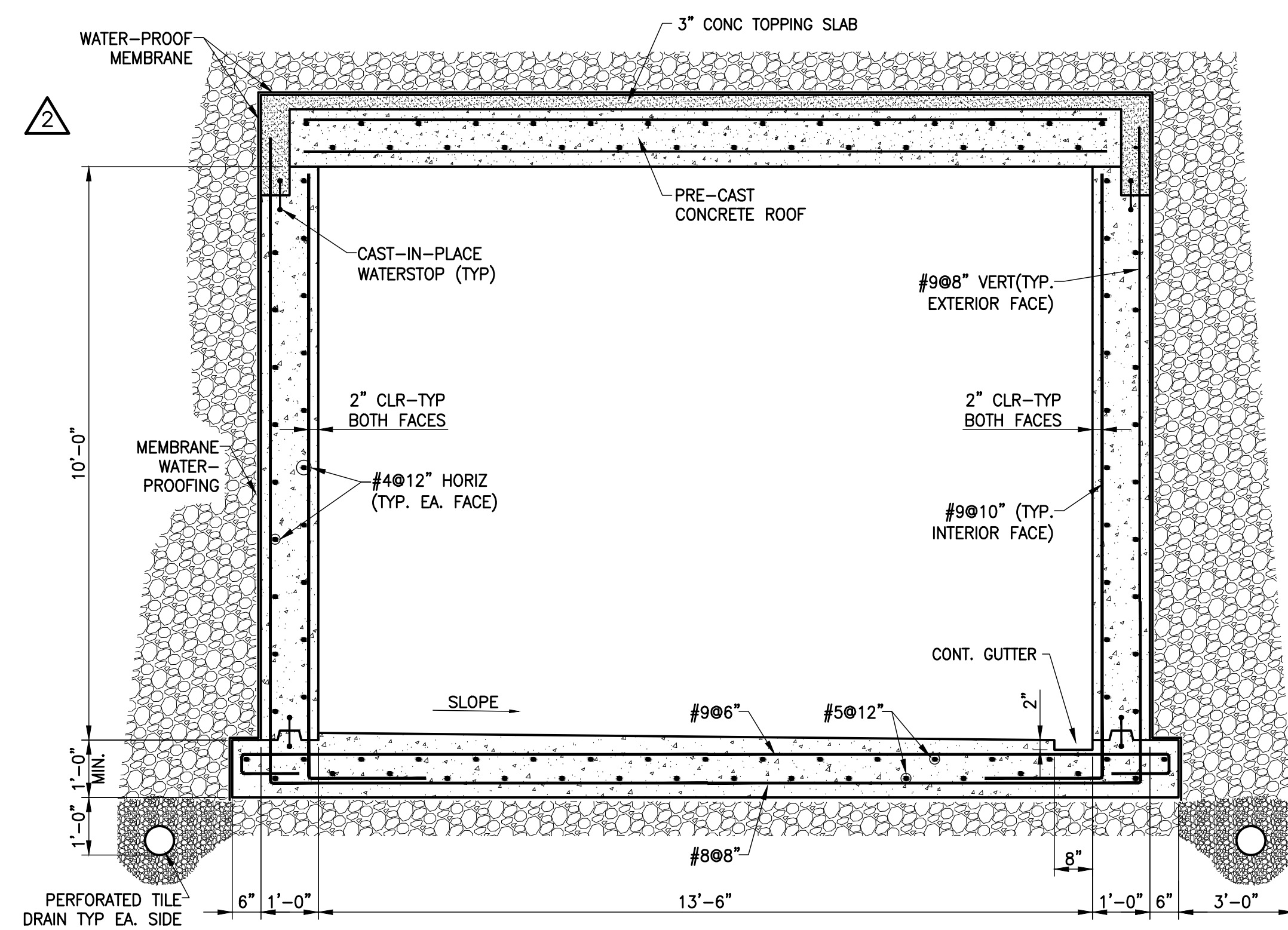


B
HOSPITAL DRIVE UTILITY TUNNEL
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=5'
EAST PORTION: LOOKING NORTH

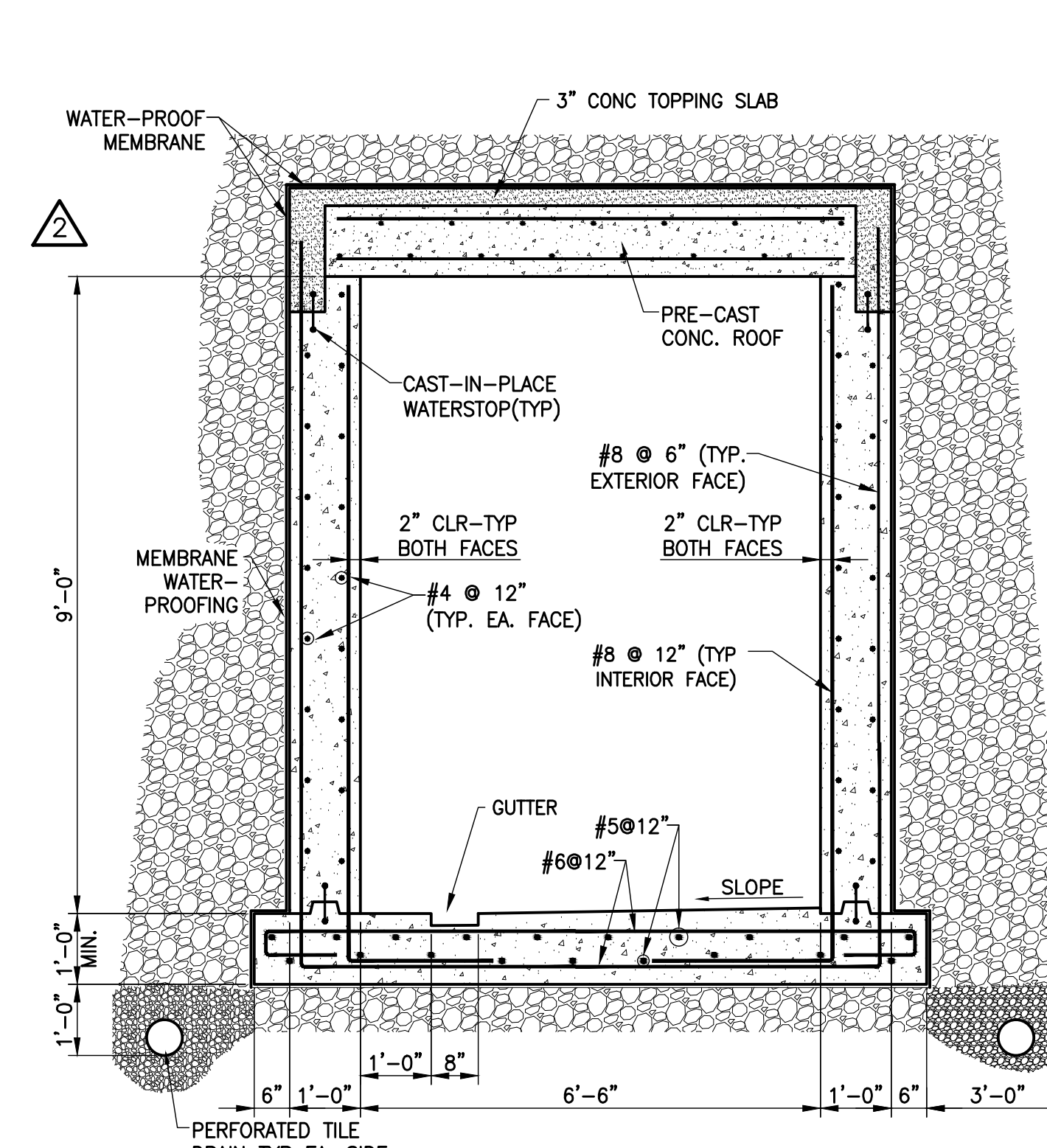


C
HOSPITAL DRIVE UTILITY TUNNEL
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=5'
WEST PORTION: LOOKING NORTH

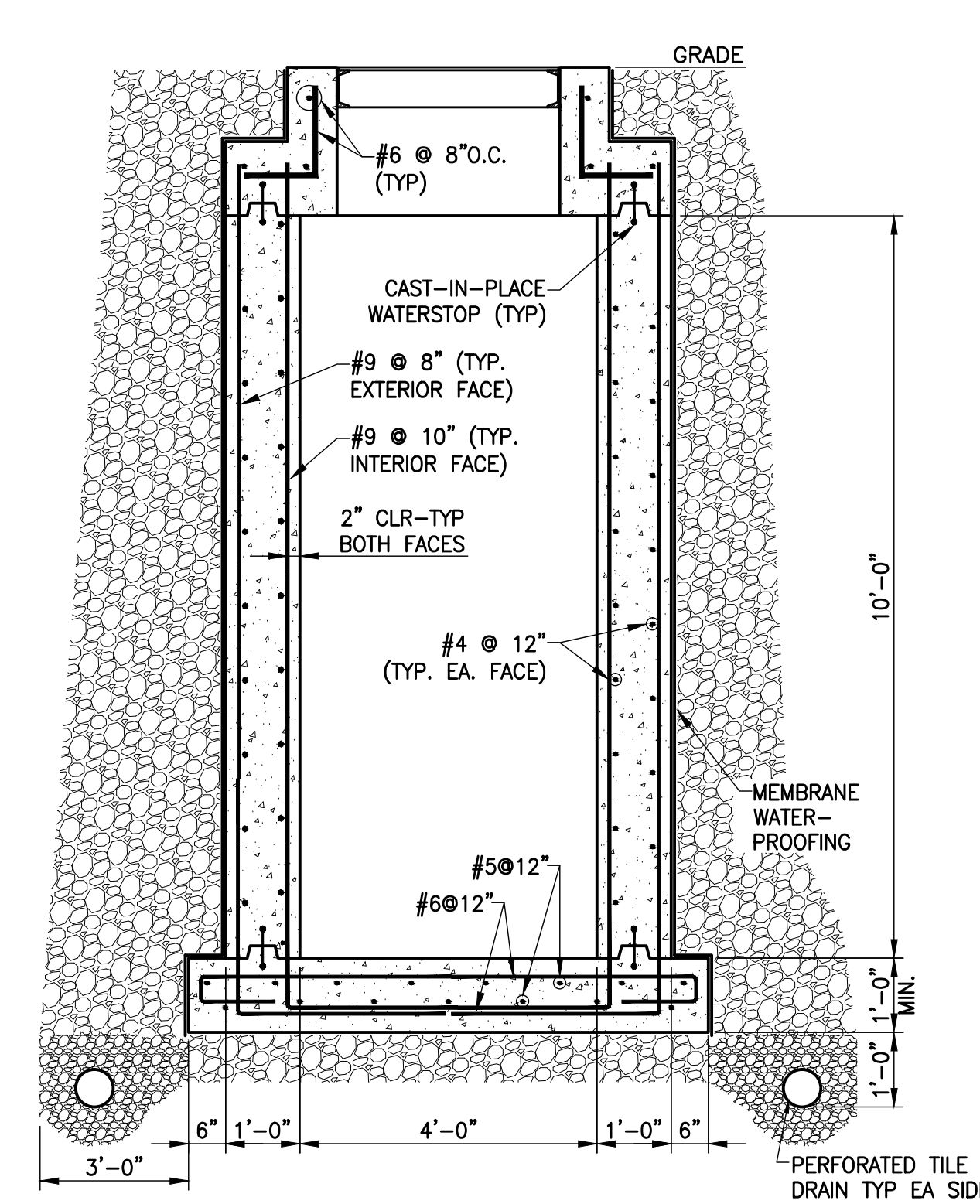
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C TUNNEL SECTION
 SCALE: 1/2" = 1'-0"
 MAIN SECTION, LOOKING WEST



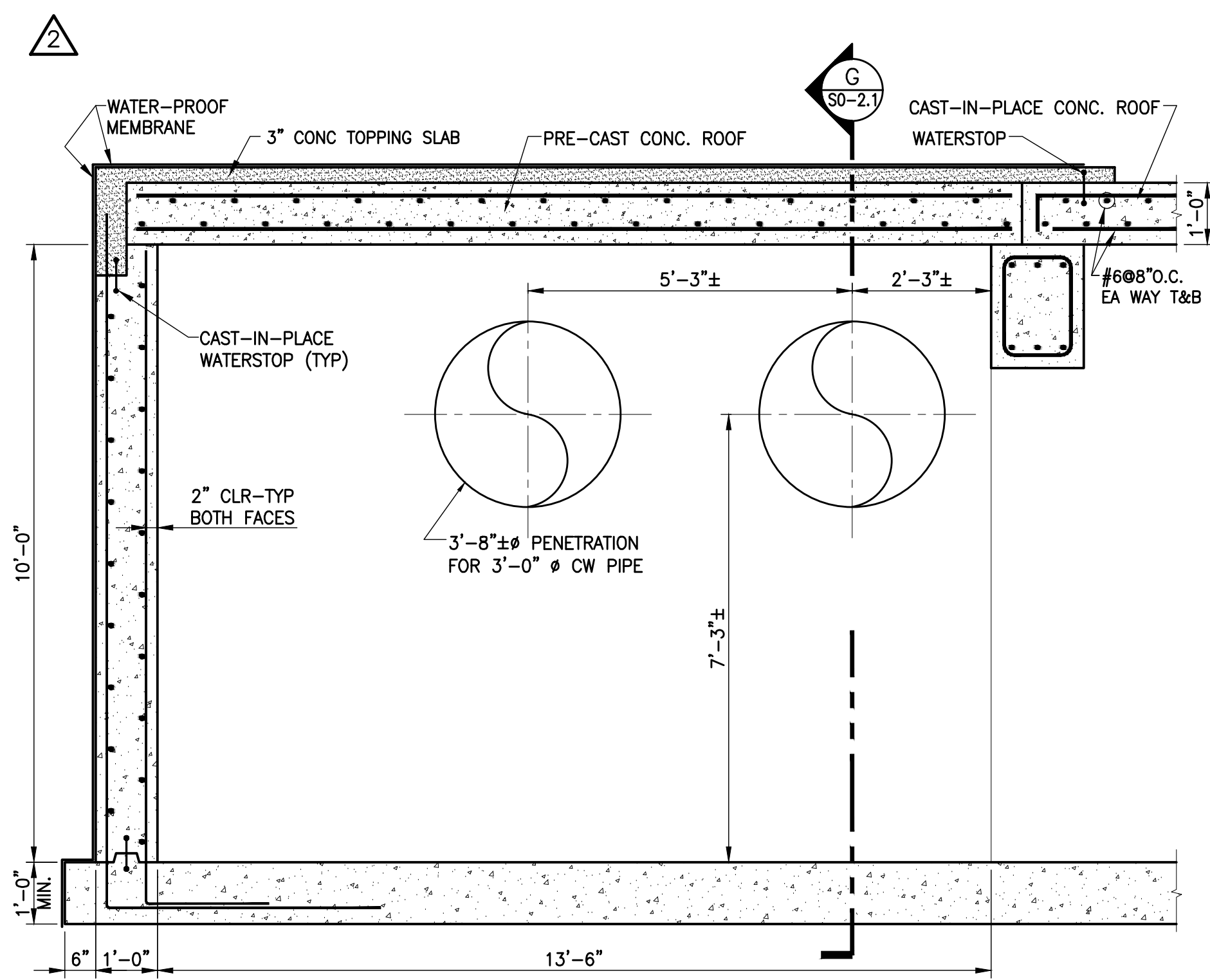
D TUNNEL SECTION
 SCALE: 1/2" = 1'-0"
 CP-3 SECTION, LOOKING NORTH



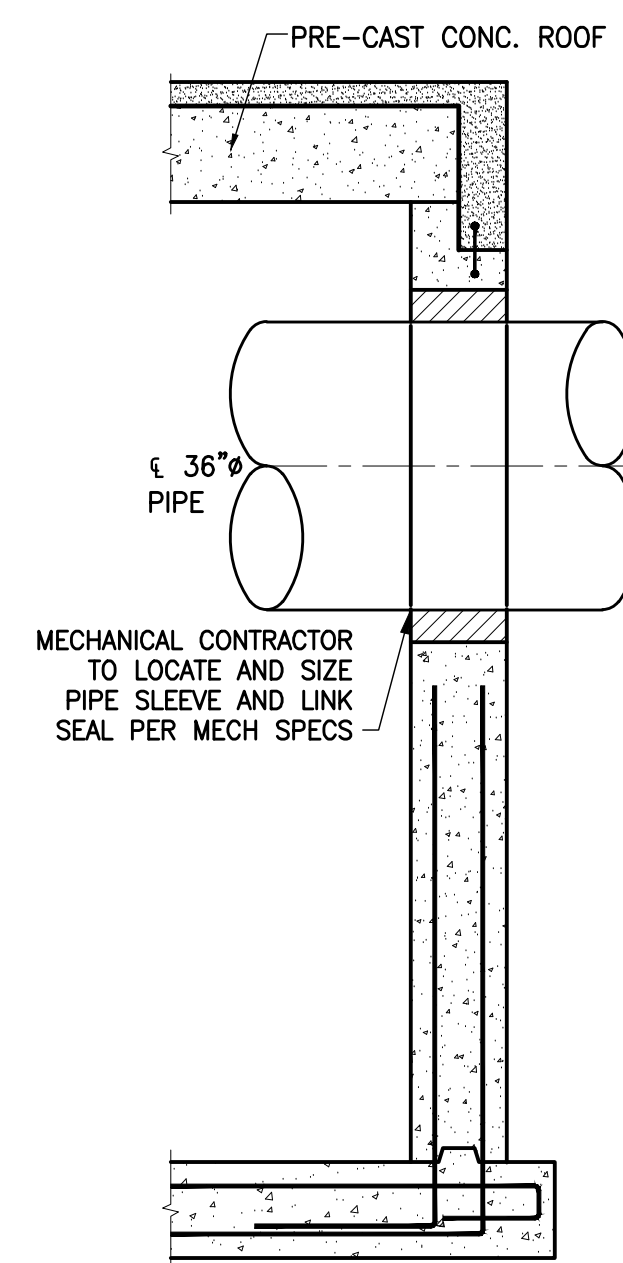
E TUNNEL SECTION
 SCALE: 1/2" = 1'-0"
 ACCESS SECTION, LOOKING NORTH

GENERAL NOTES

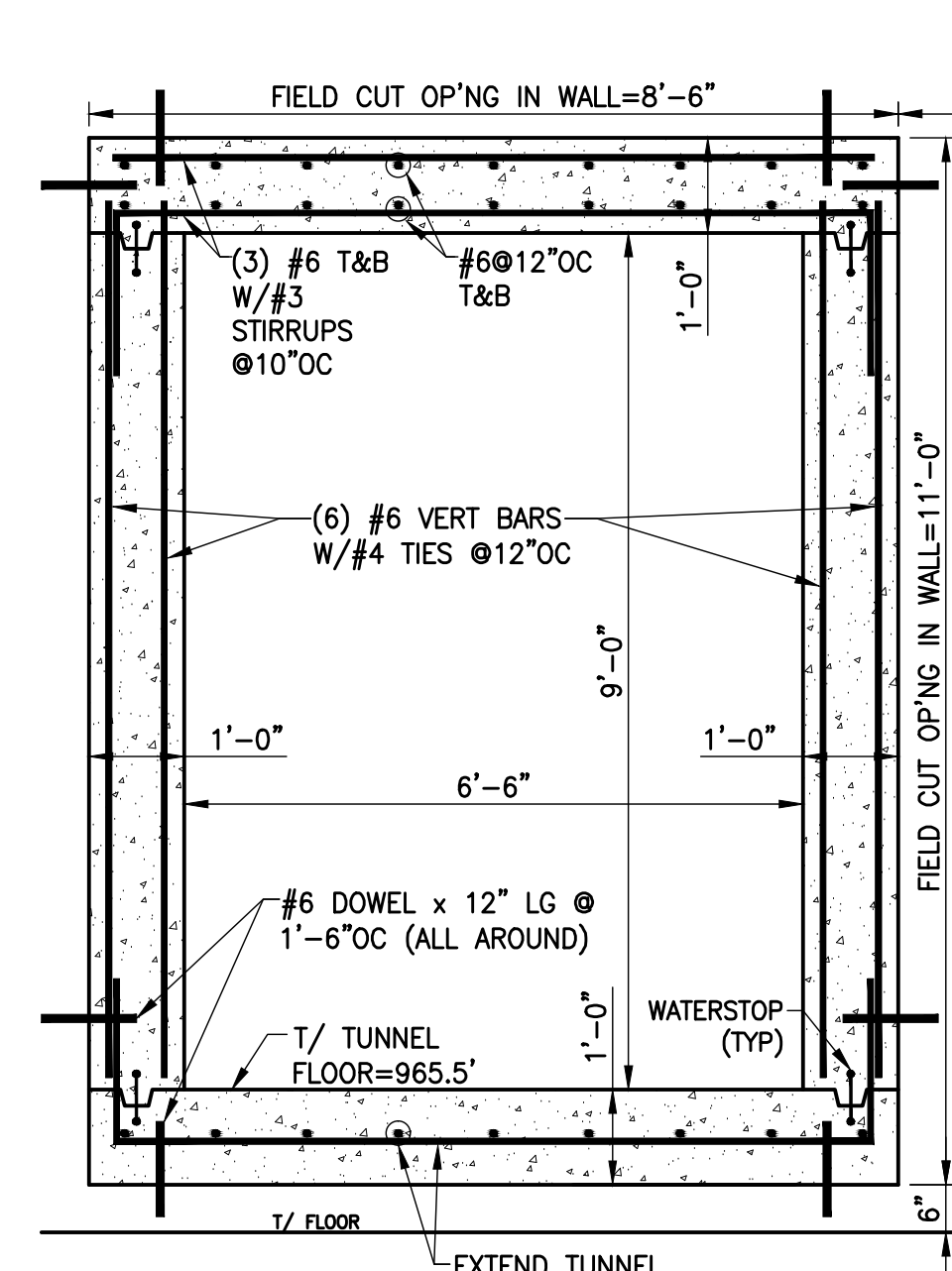
1. ALL EXCAVATION, FILL, AND BACK FILL, UTILITY TRENCHES, AND SUB GRADE PREPARATION FOR PAVEMENT AND SLABS SHALL COMPLY WITH RECOMMENDATIONS CONTAINED IN THE SOILS REPORTS PREPARED FOR THIS PROJECT BY THE GEOTECHNICAL ENGINEER. THE SOILS REPORT IS PROVIDED FOR THE CONTRACTOR'S INFORMATION, AND IS NOT TO BE DEEMED ALL INCLUSIVE. CONTRACTOR IS TO SECURE, AT HIS EXPENSE, ANY ADDITIONAL REPORTS HE FEELS NECESSARY TO DETERMINE CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, AND COSTS.
2. LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES AND NOTIFY ENGINEER IF THEY CONFLICT WITH PROPOSED UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES DURING OR RESULTING FROM CONSTRUCTION.
3. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL RESTORE AREAS DESTURBED DURING CONSTRUCTION INCLUDING RETURNING ROADS, CURBS AND ENTRANCE DRIVES TO PRECONSTRUCTION ORIENTATION PER TYPICAL DETAILS PROVIDED. REFER TO CIVIL DRAWINGS.
4. SLOPE TUNNEL FLOOR LATERALLY TO GUTTER, AND SEE PLAN AND PROFILE DWGS FOR LONGITUDINAL SLOPING.
5. DRAINAGE FILL MIN. 8" THICK LAYER UNDER TUNNEL SLAB AND MIN 3'-0" THICK BEHIND WALLS.



F TUNNEL END SECTION
 SCALE: 1/2" = 1'-0"
 EAST END OF MAIN SECTION, LOOKING EAST

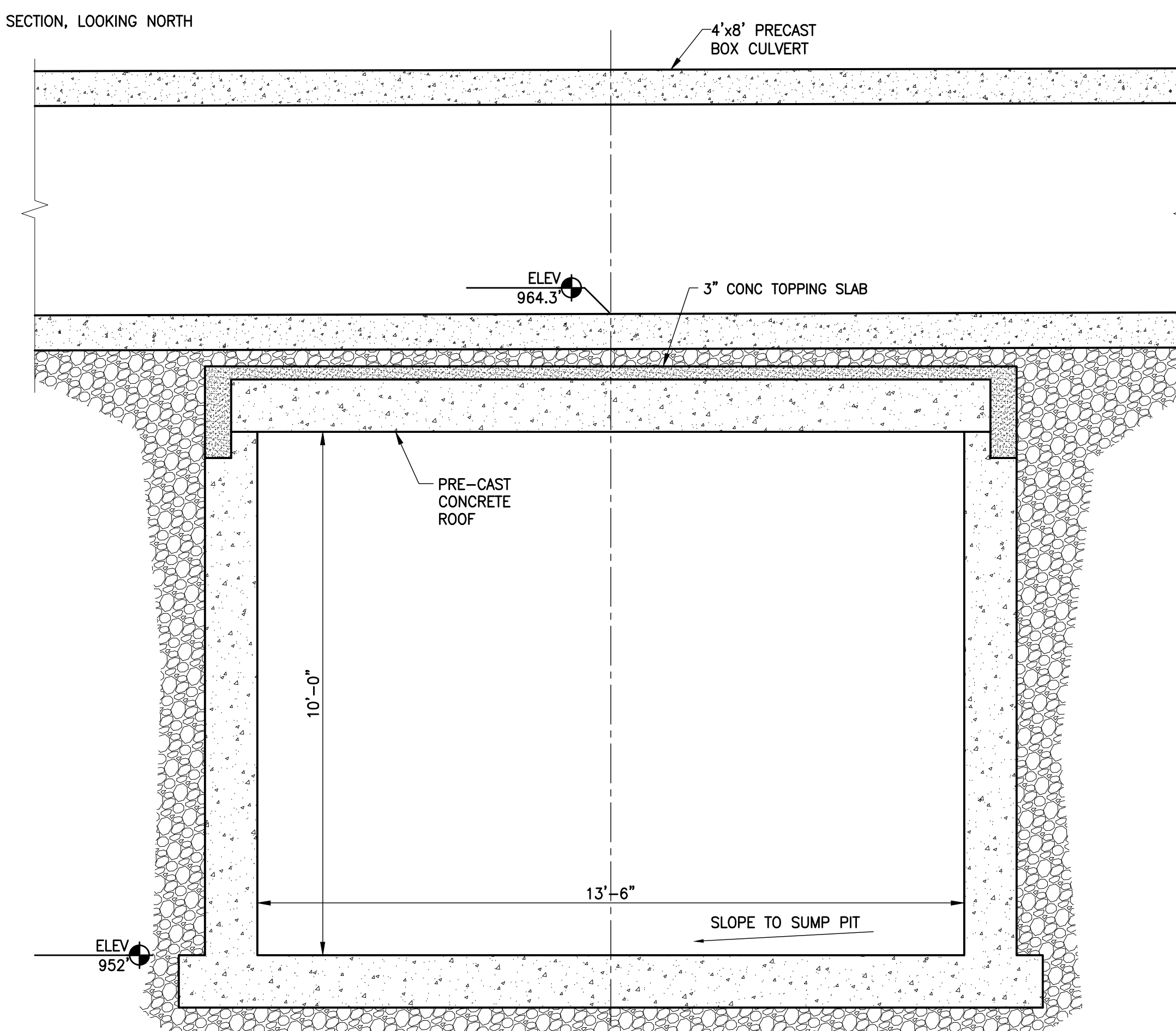


G TUNNEL END SECTION
 SCALE: 1/2" = 1'-0"
 EAST END OF MAIN SECTION, LOOKING NORTH

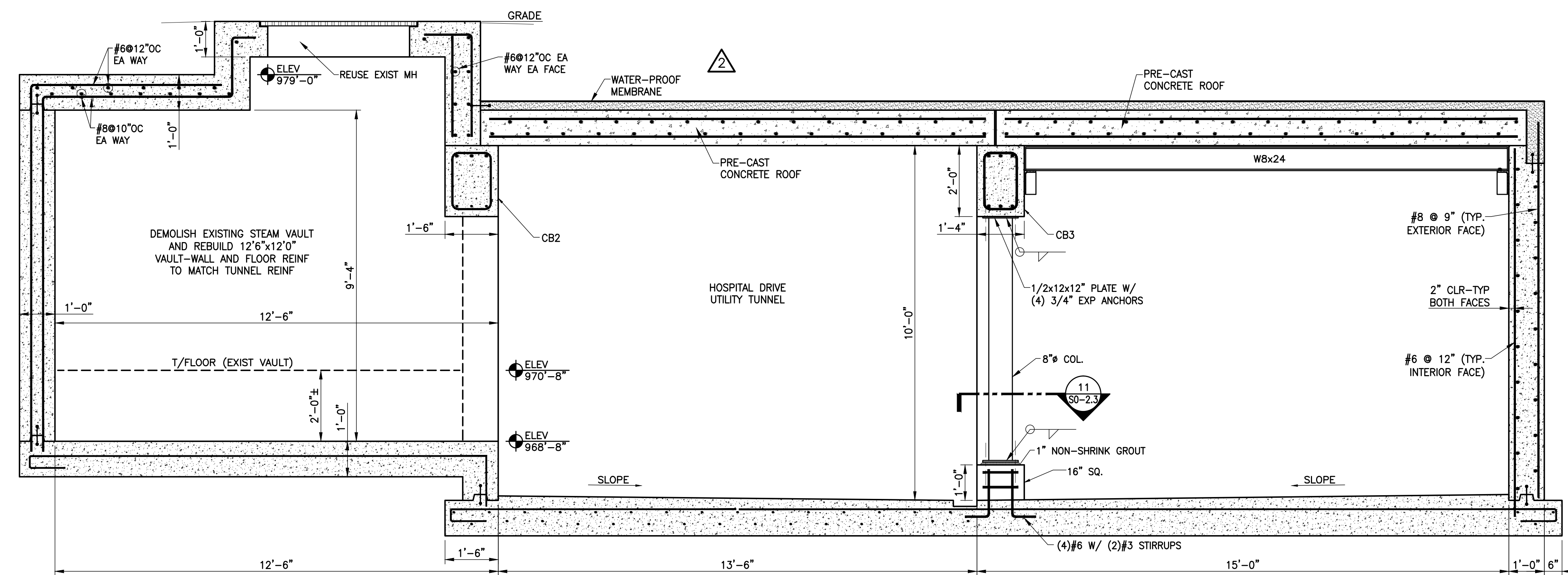


K TUNNEL SECTION
 SCALE: 1/2" = 1'-0"

ACCESS SECTION, LOOKING NORTH



J TUNNEL SECTION
 SCALE: 1/2" = 1'-0"



H TUNNEL SECTION
 SCALE: 1/2" = 1'-0"

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A.M. KINNEY

AND

ELLERBE BECKET

CONSULTANT

UK

Construct Patient
 Care Facility

UK # 2239.3B

BP - 3B

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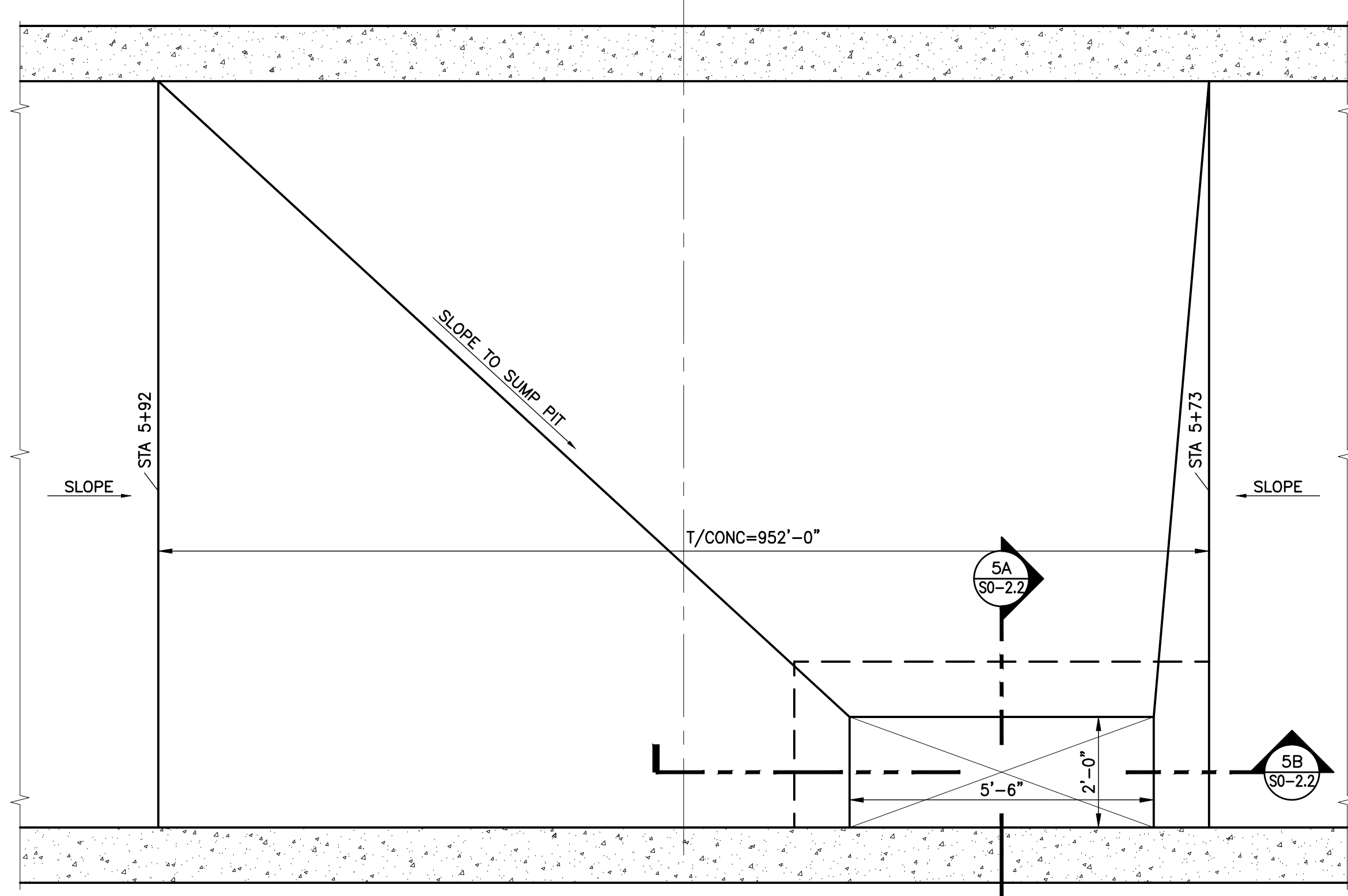
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RD-11	09-01-11	RECORD DRAWING

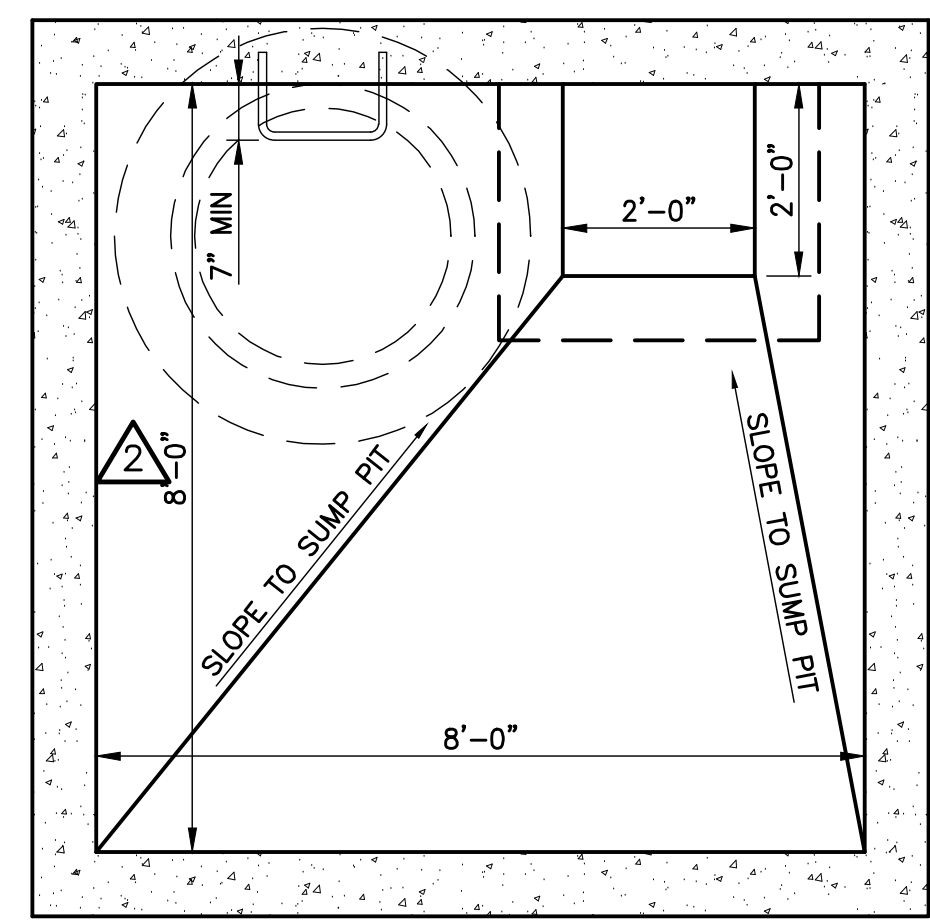
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**STRUCTURAL
 HOSPITAL DRIVE
 UTILITY TUNNEL
 SECTIONS AND DETAILS**

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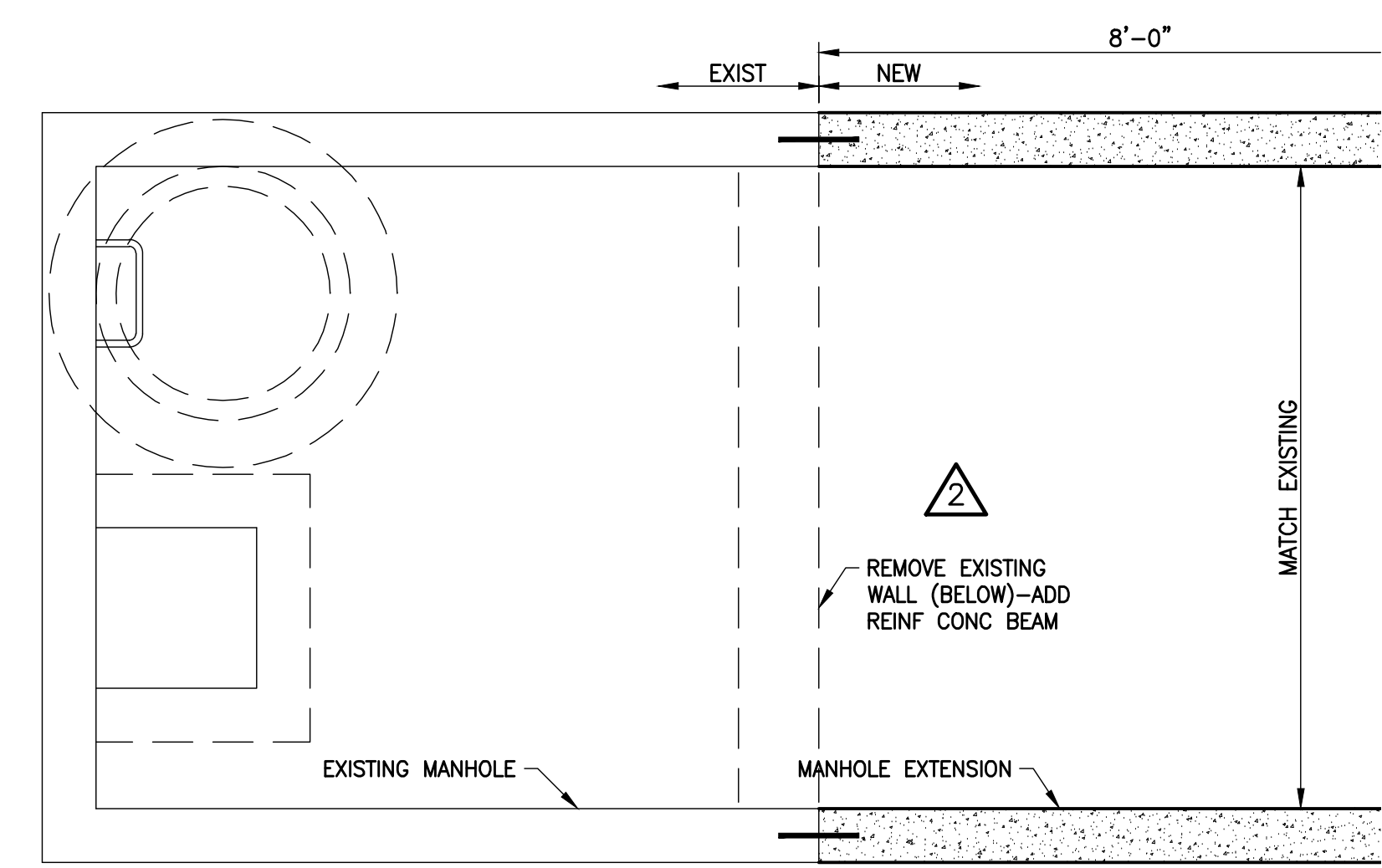
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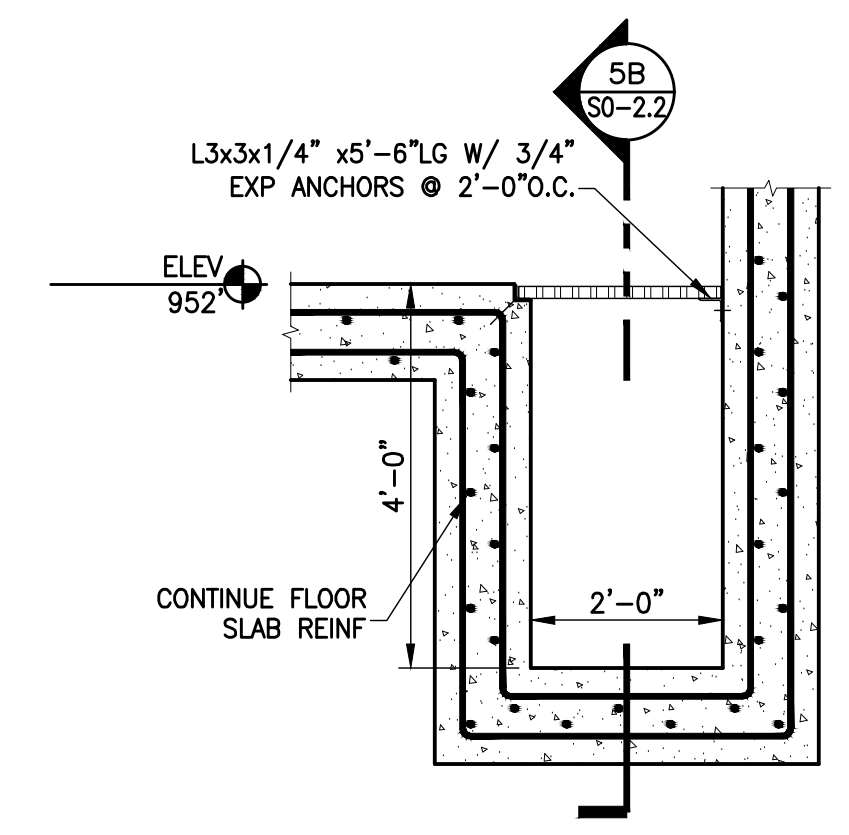
5 TUNNEL SUMP DETAIL
SCALE: 1/2" = 1'-0"



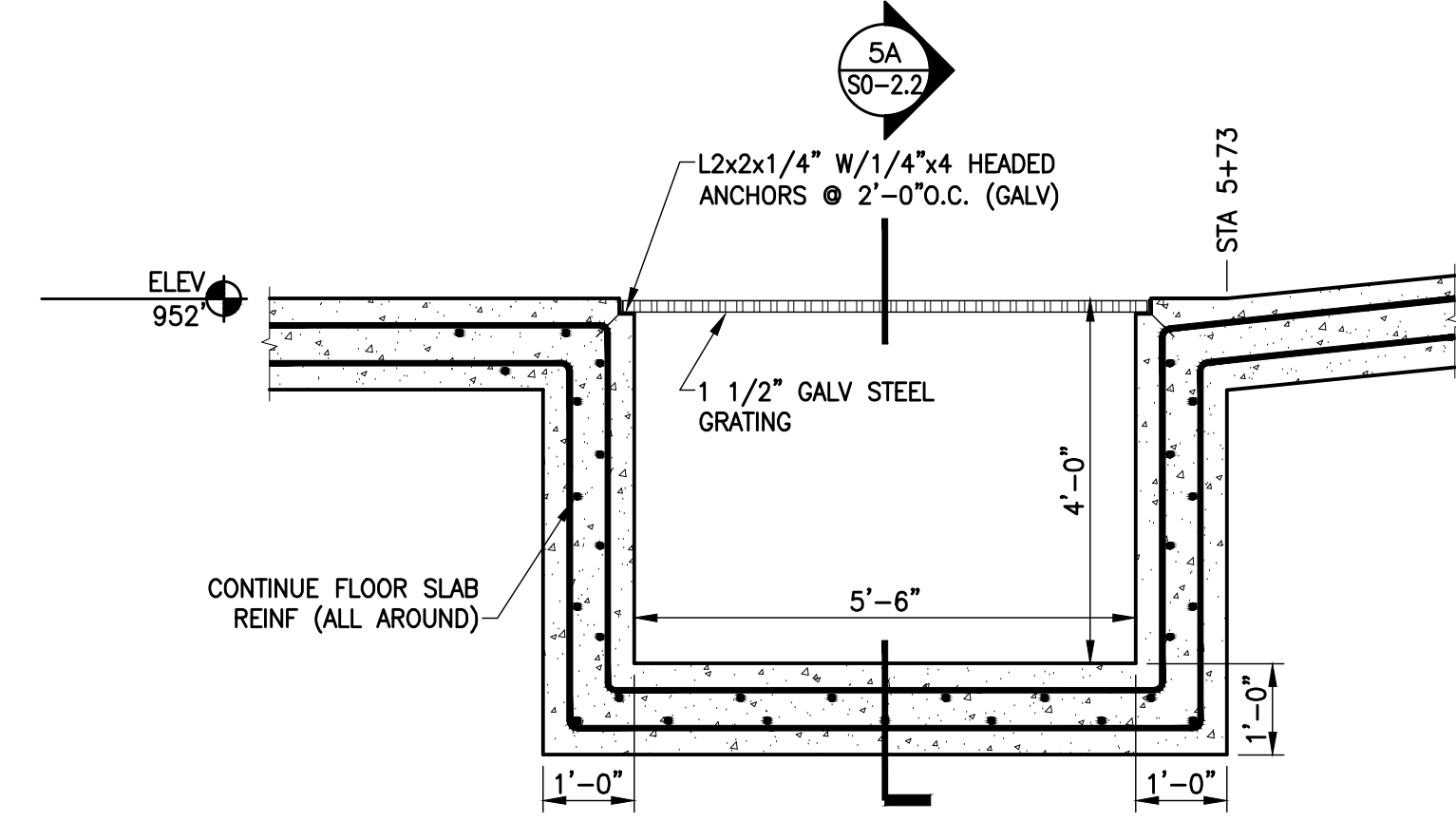
PLAN
SCALE: 1/2" = 1'-0"



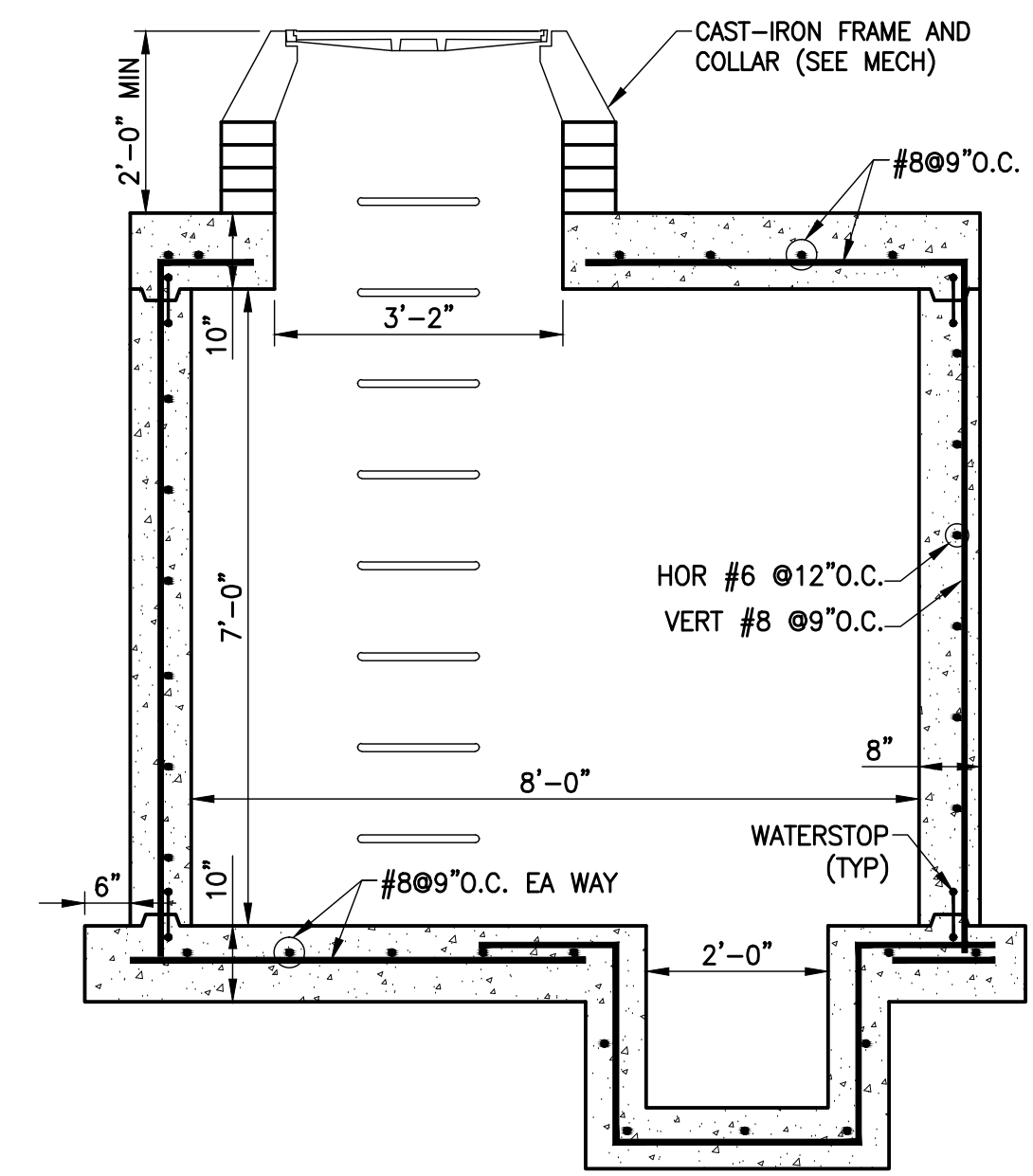
PLAN
SCALE: 1/2" = 1'-0"



5A SUMP ELEVATION
SCALE: 1/2" = 1'-0"

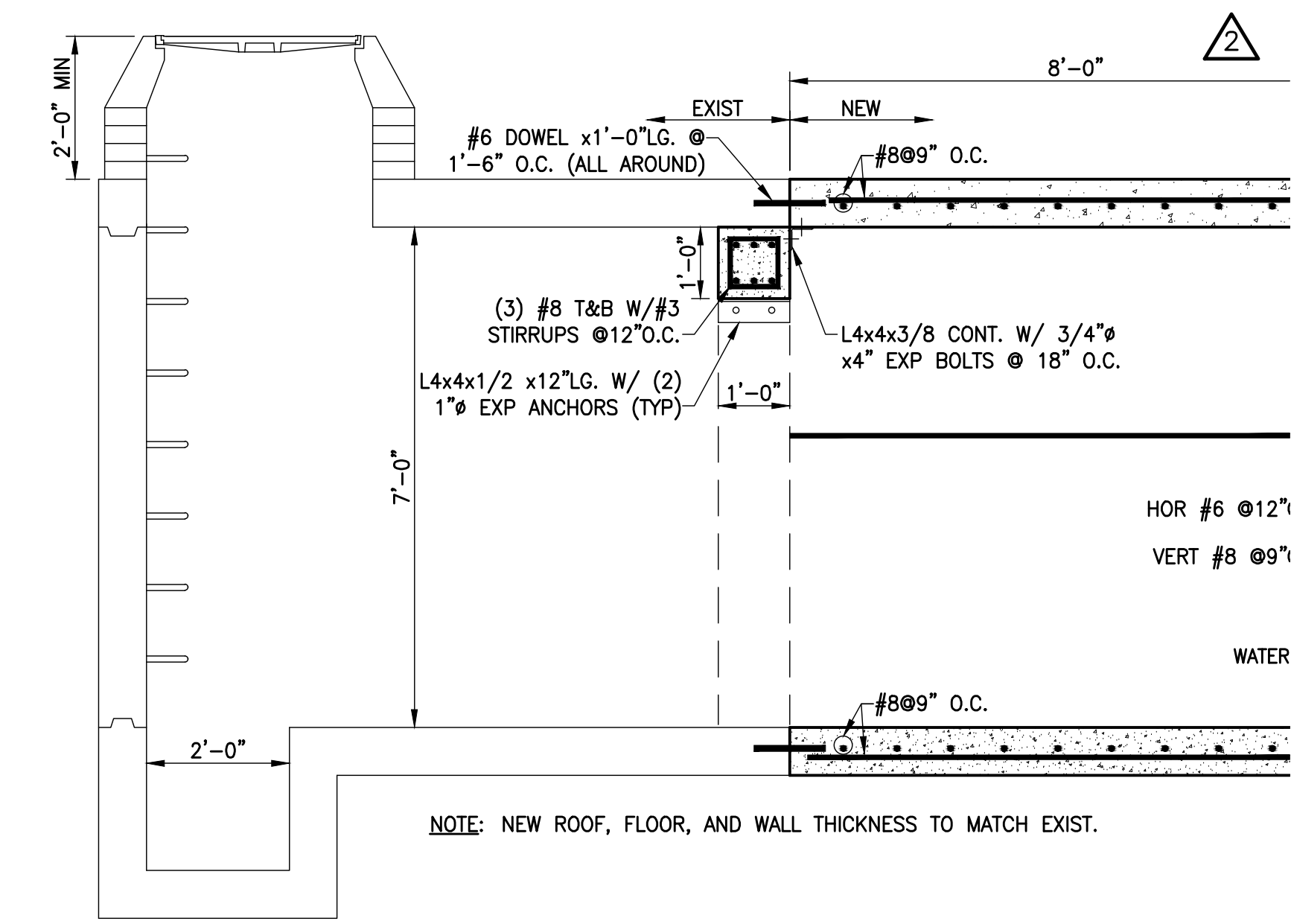


5B SUMP ELEVATION
SCALE: 1/2" = 1'-0"



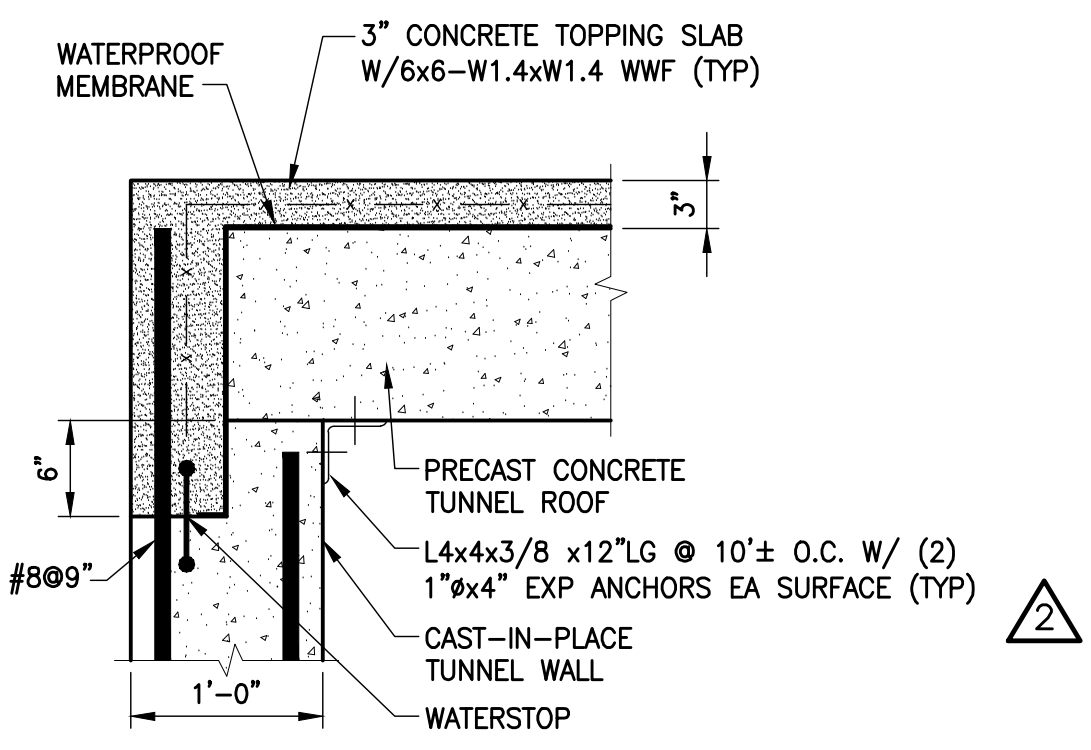
ELEVATION
SCALE: 1/2" = 1'-0"

TYPICAL ELECTRIC AND COMMUNICATION MANHOLES
NOTE: FOR SIZE AND LOCATION, SEE DWGS U-1.1, U-1.2, AND U-3.7.

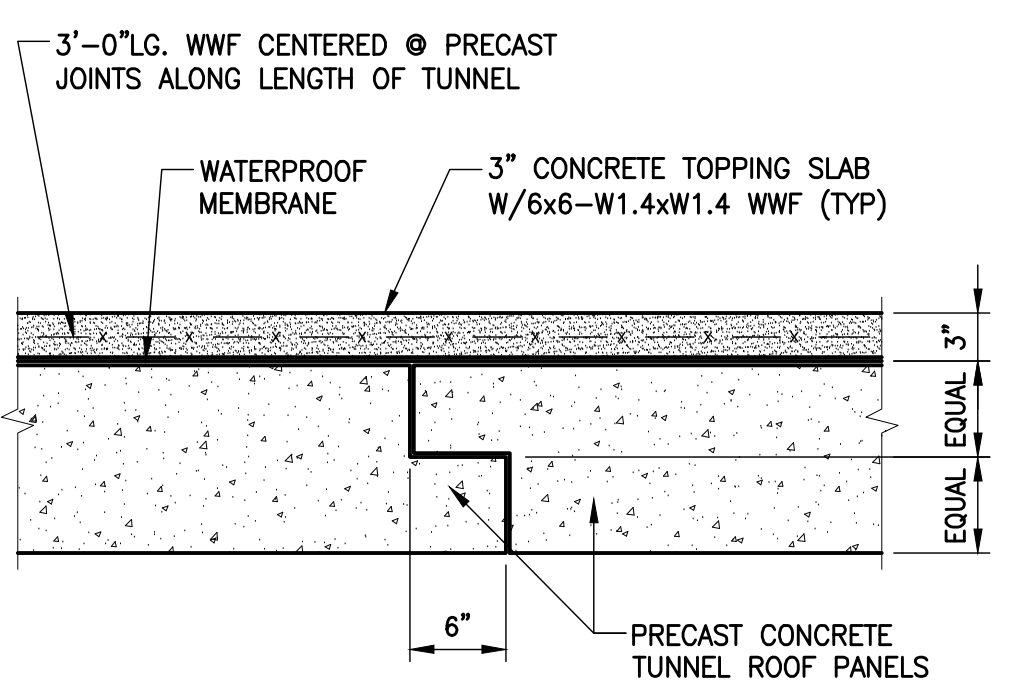


ELEVATION
SCALE: 1/2" = 1'-0"

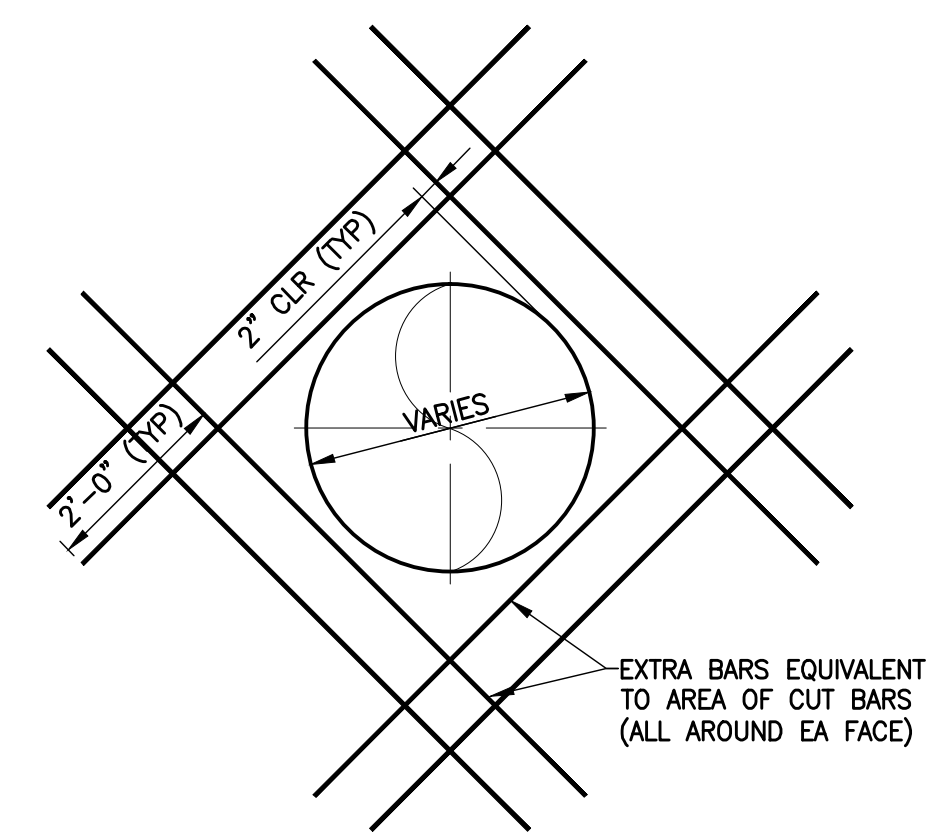
TYPICAL MANHOLE EXPANSION
NOTE: FOR SIZE AND LOCATION, SEE DWGS U-1.1, U-1.2, AND U-3.7.



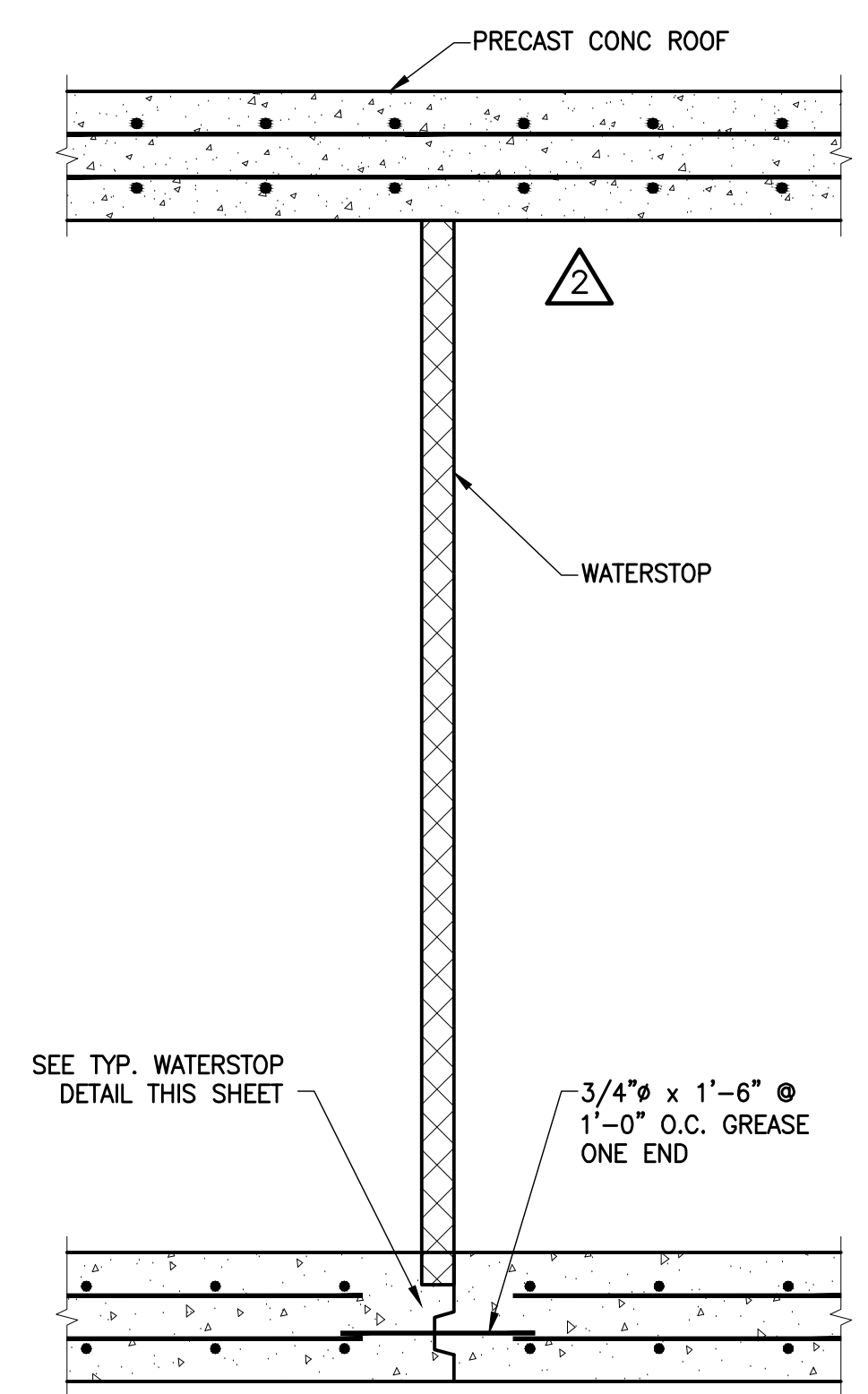
DETAIL-ROOF/WALL CONN
SCALE: 1"=1'-0"



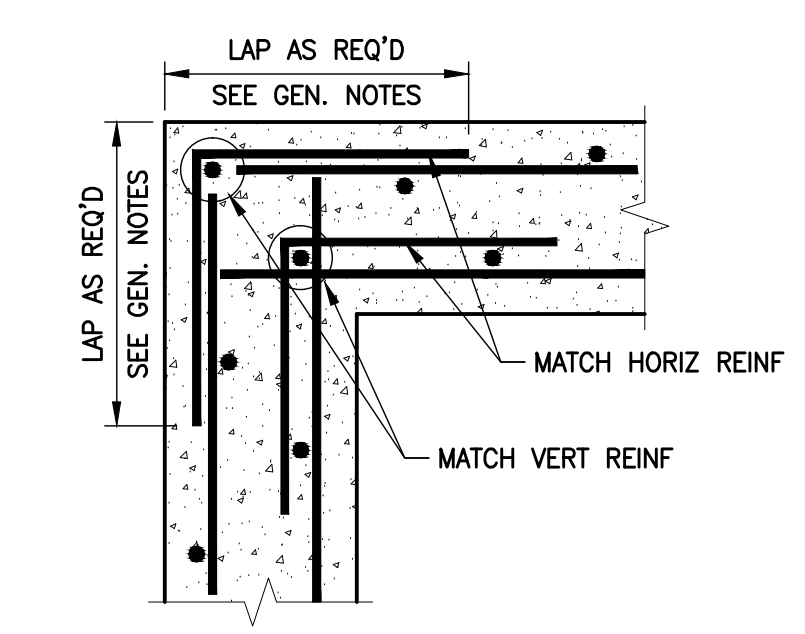
DETAIL-PRECAST ROOF CONSTR. JT
SCALE: 1"=1'-0"



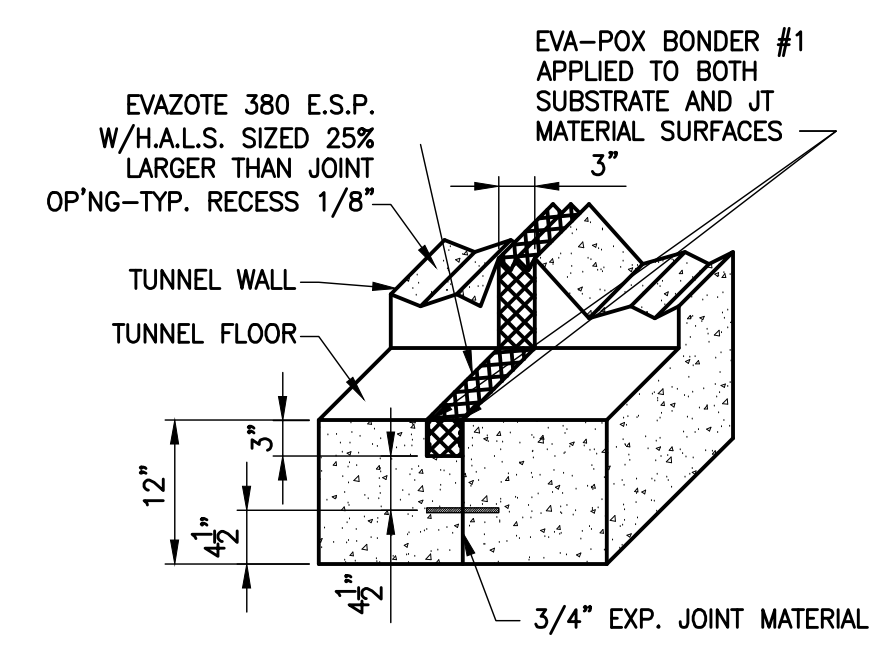
TYP WALL PENETRATION REINFORCING
SCALE: NONE



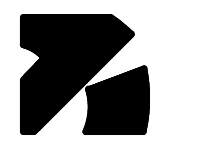
DETAIL-TYP TUNNEL CONST. JT
SCALE: 3/4" = 1'-0"



PLAN DETAIL-CORNER REINF
SCALE: NONE



DETAIL-TYP WATERSTOP CONSTR. JT
SCALE: NONE



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RECORD DRAWINGS

No.	Date	Description
1	02-15-07	CONTRACT DOCUMENT ISSUE
2	03-09-07	ADDENDUM NO. 3 ISSUE
	08-21-09	RECORD DRAWING
RD-1	09-01-11	RECORD DRAWINGS

**STRUCTURAL
HOSPITAL DRIVE
UTILITY TUNNEL
SECTIONS AND DETAILS**

GBBN Job No:	10247.04
Job No:	03350
CAD File:	s0-2.2.dwg
Scale:	AS NOTED
Date:	02-15-07
Sheet:	



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Drawing Issue:

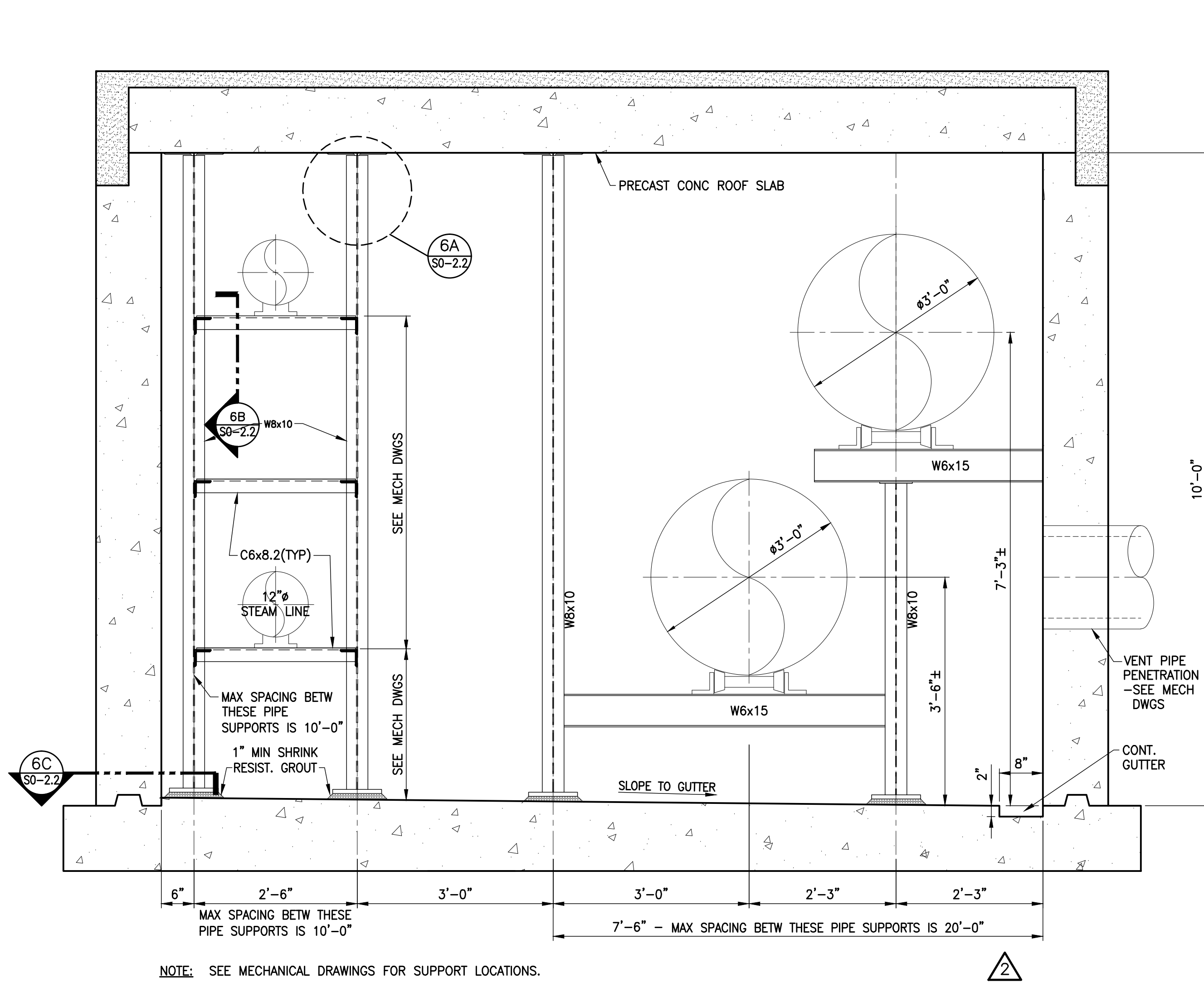
RECORD DRAWINGS

No.	Date	Description
1	02-15-07	CONTRACT DOCUMENT ISSUE
2	03-09-07	ADDENDUM NO. 3 ISSUE
08-21-09		RECORD DRAWING
RD-1	09-01-11	RECORD DRAWINGS

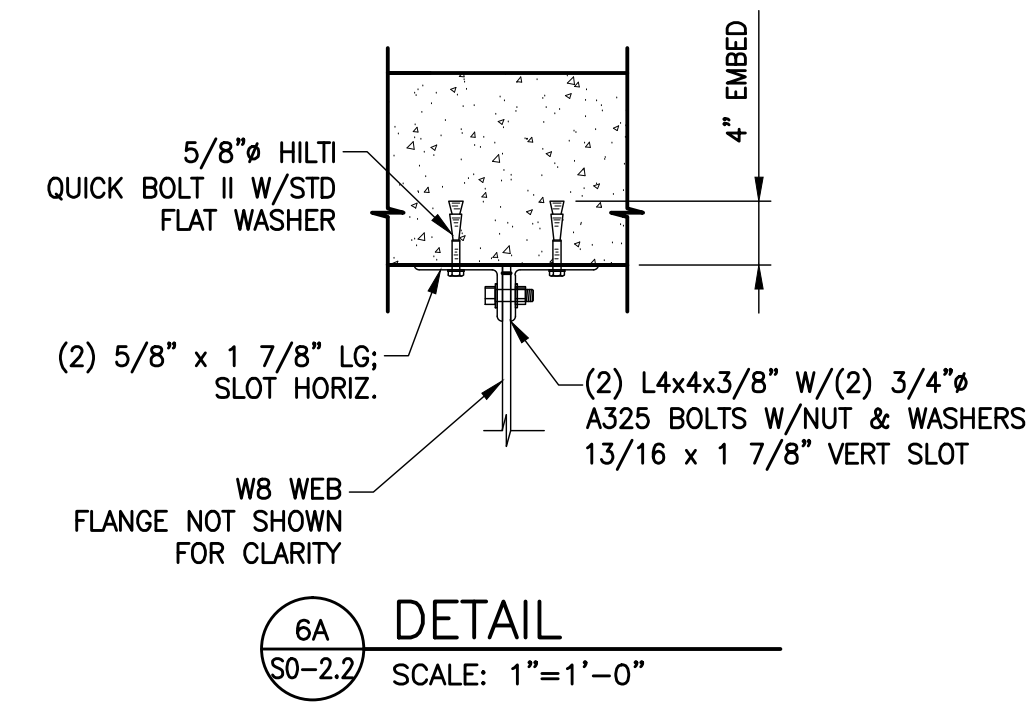
Drawing Title:

STRUCTURAL
HOSPITAL DRIVE
UTILITY TUNNEL
PIPE SUPPORT DETAILS

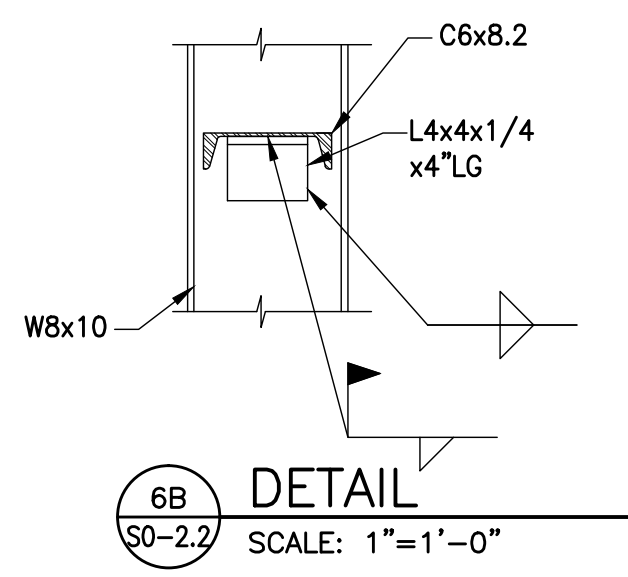
GBBN Job No:	10247.04
Job No:	03350
CAD File:	s0-2.3.dwg
Scale:	AS NOTED
Date:	02-15-07
Sheet:	



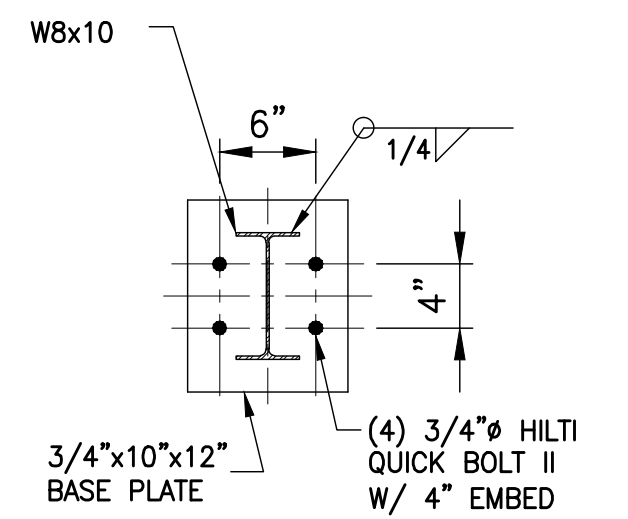
6 ELEVATION-TYP MAIN TUNNEL SUPPORT STEEL
SCALE: 3/4" = 1'-0"



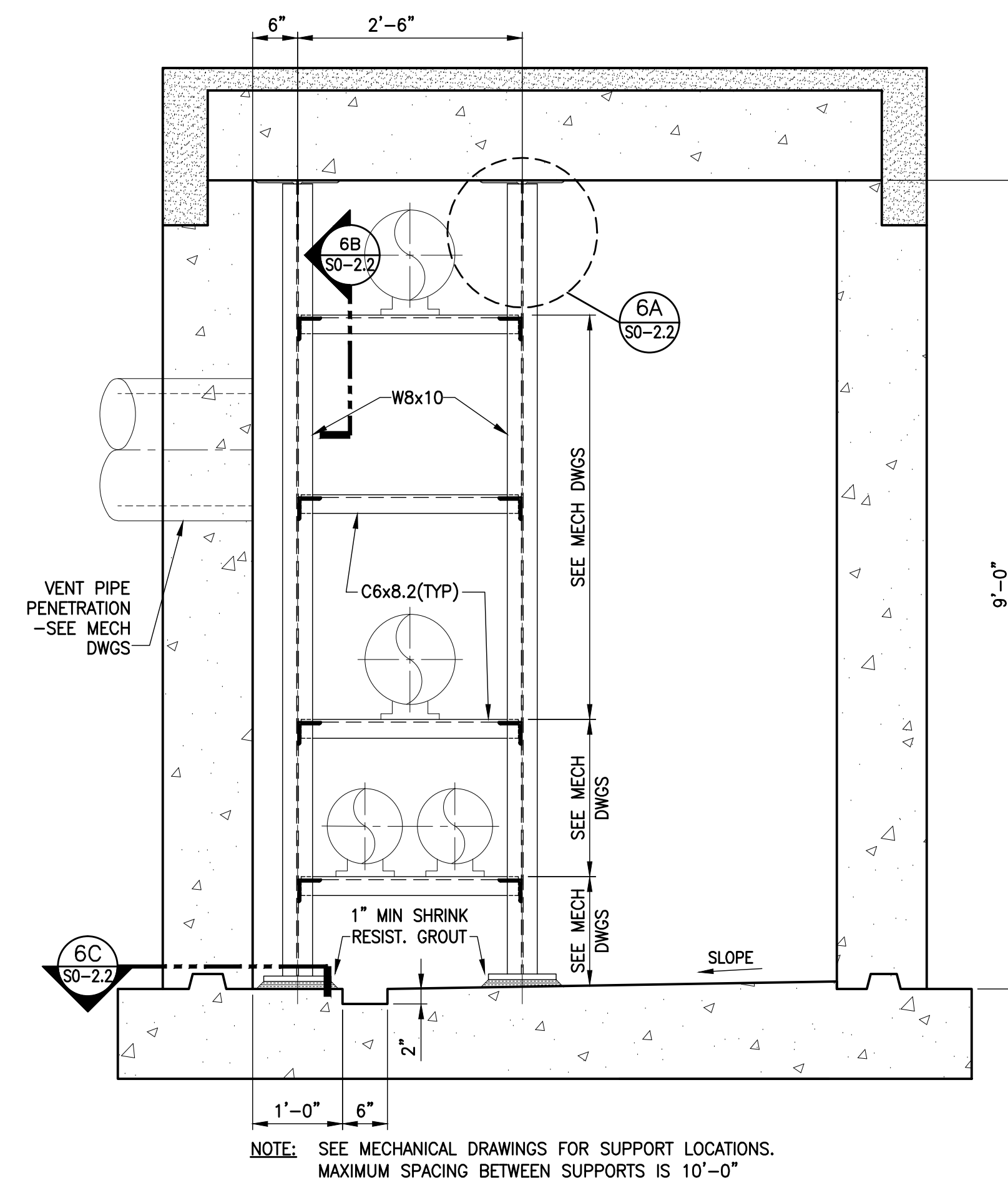
6A DETAIL
SCALE: 1"=1'-0"



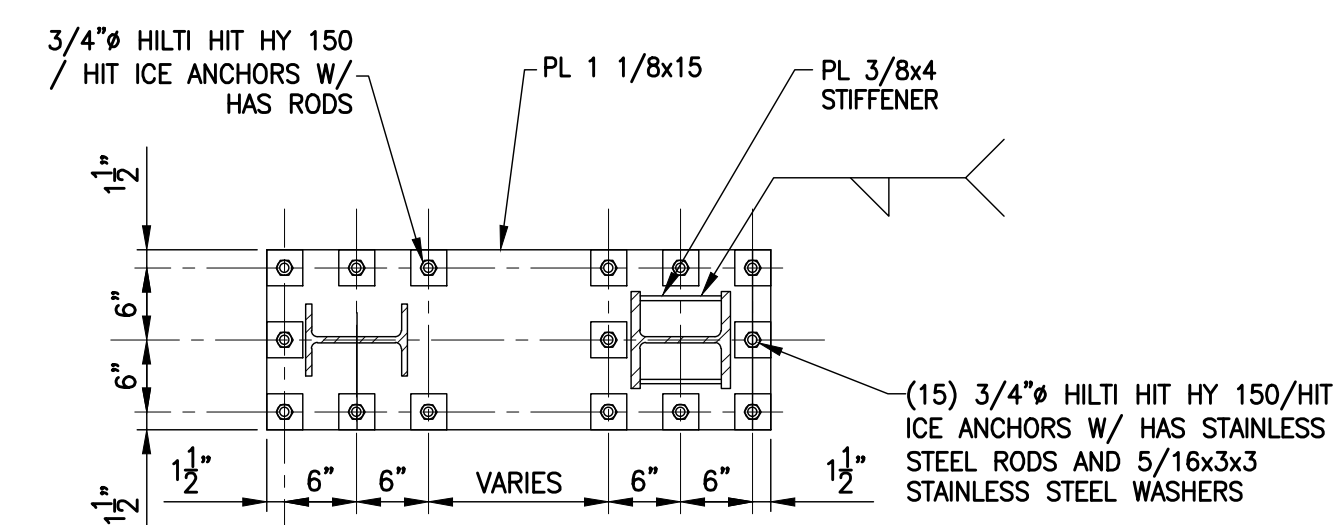
6B DETAIL
SCALE: 1"=1'-0"



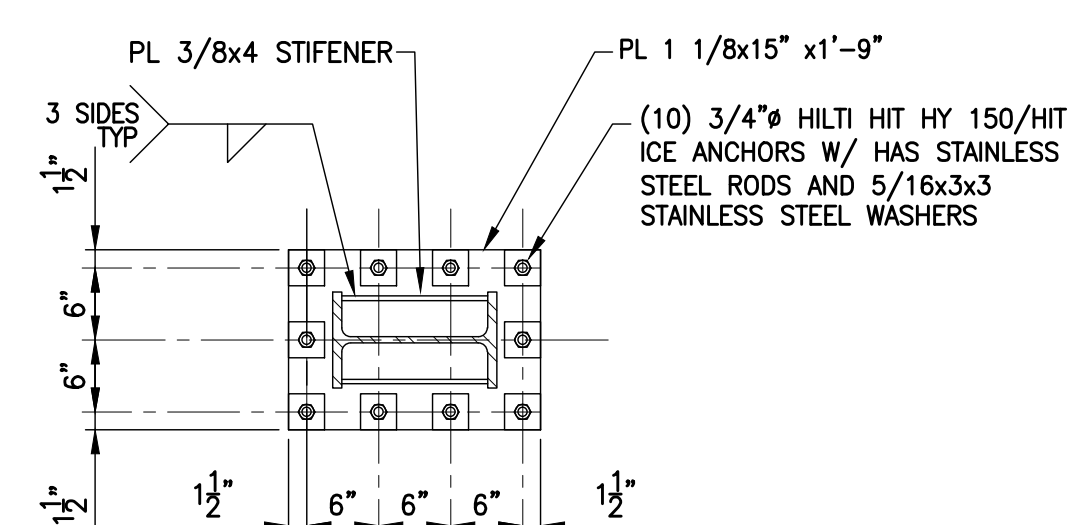
6C DETAIL
SCALE: 1"=1'-0"



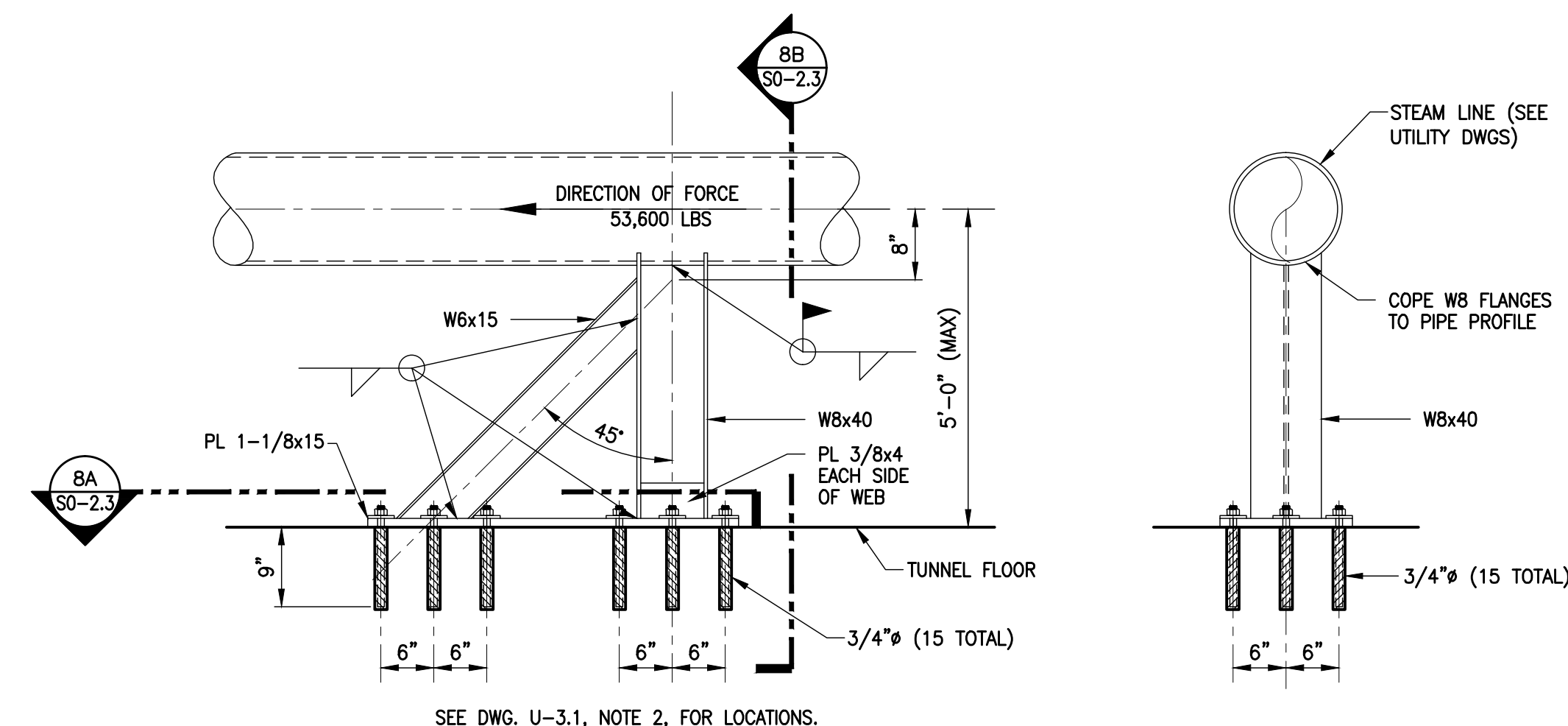
7 ELEVATION-TYP CP3 TUNNEL SUPPORT STEEL
SCALE: 3/4" = 1'-0"



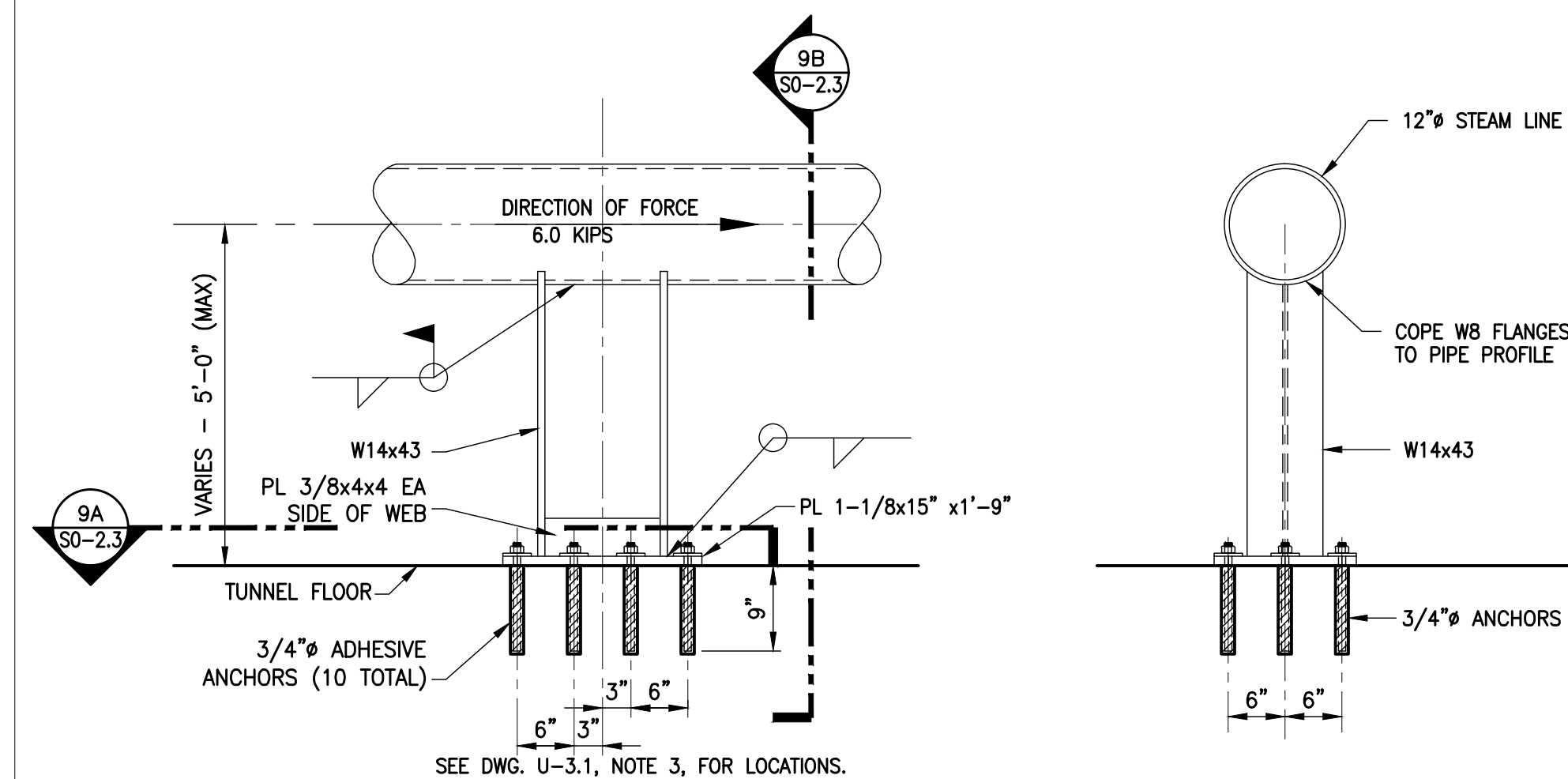
8A DETAIL
SCALE: 3/4" = 1'-0"



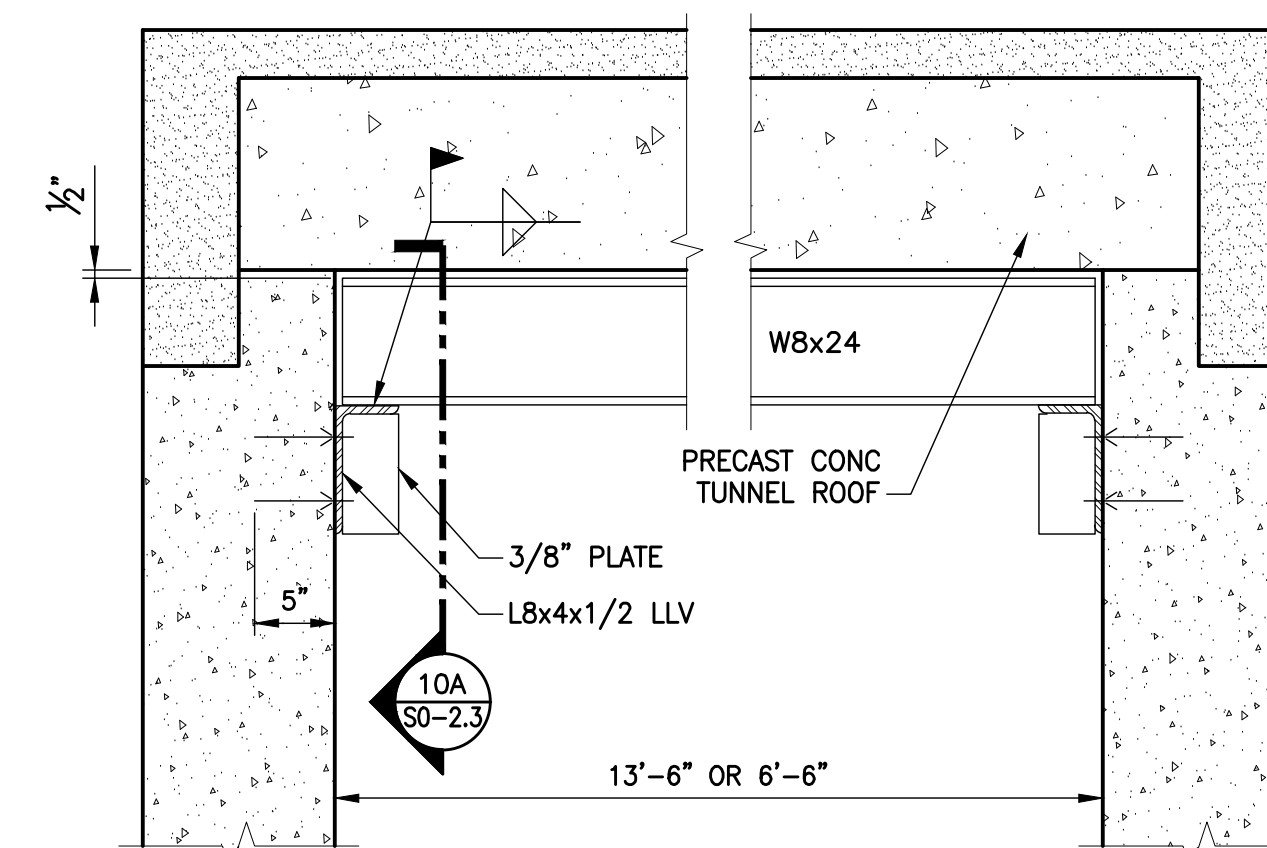
9A DETAIL
SCALE: 3/4" = 1'-0"



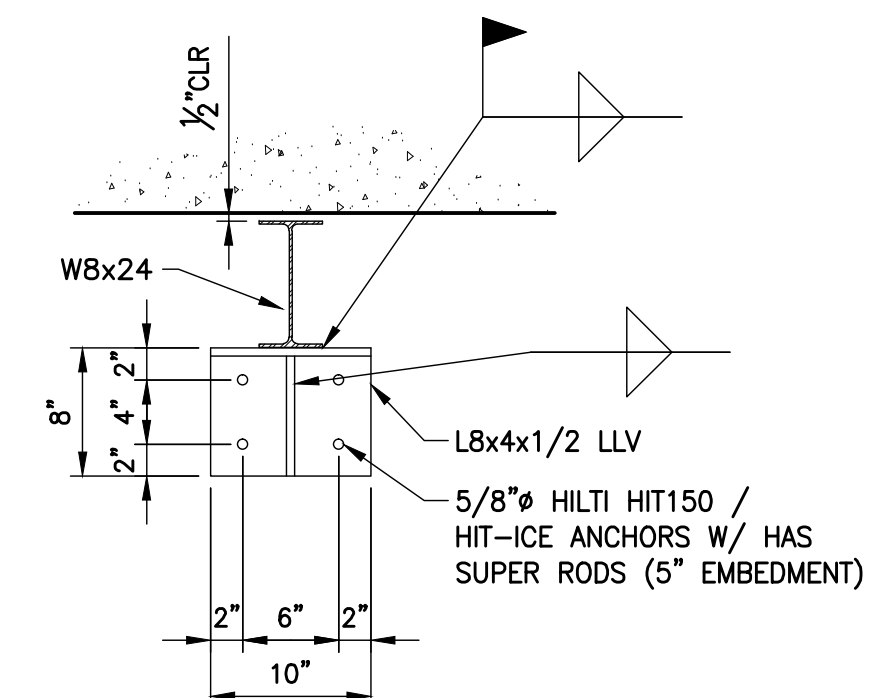
8 DETAIL-PIPE CHANGE OF DIRECTION SUPPORT
SCALE: 3/4" = 1'-0"



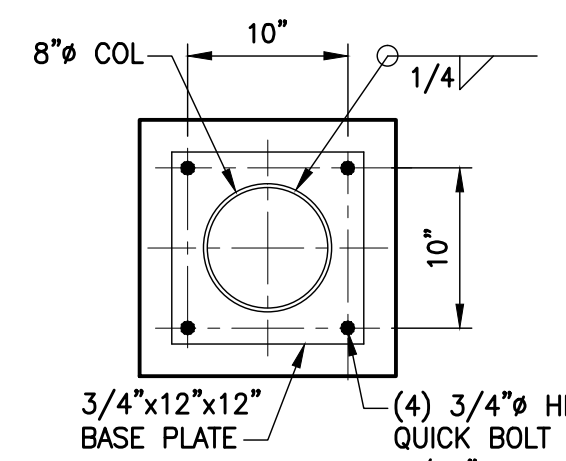
9 DETAIL-PIPE ANCHOR SUPPORT
SCALE: 3/4" = 1'-0"



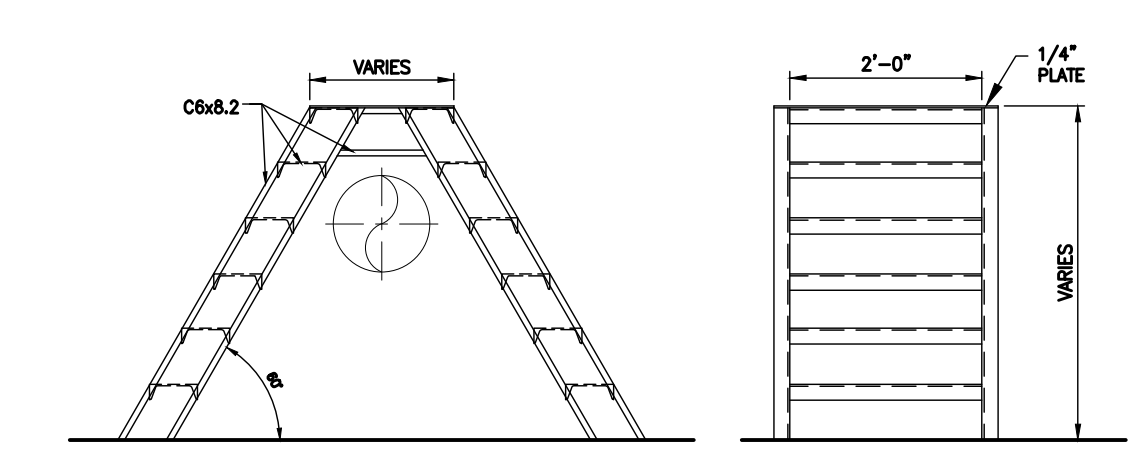
10 DETAIL-TUNNEL BRACE
SCALE: 1/2" = 1'-0"



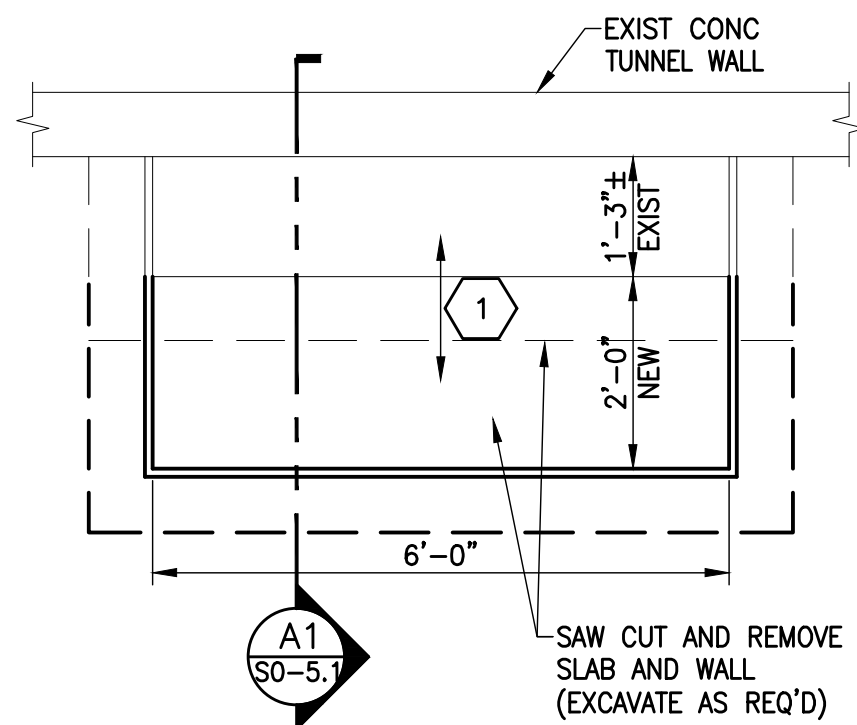
10A SECTION
SCALE: 1/2" = 1'-0"



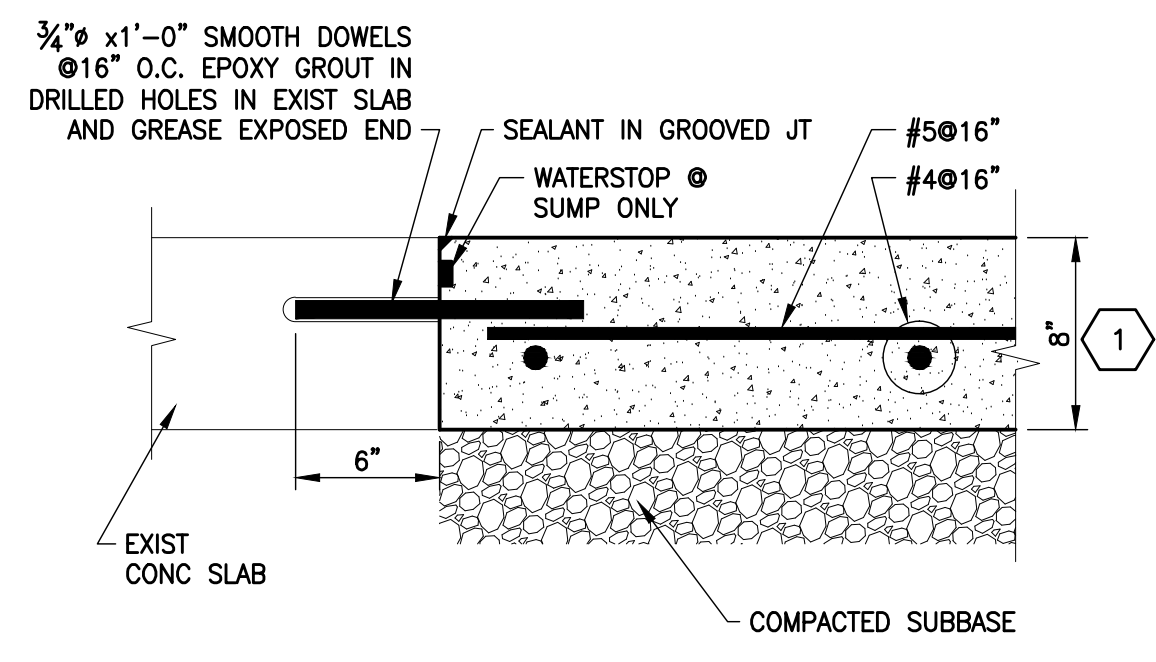
11 DETAIL
SCALE: 1"=1'-0"



12 STEPS DETAIL
SCALE: 1/2"=1'-0"



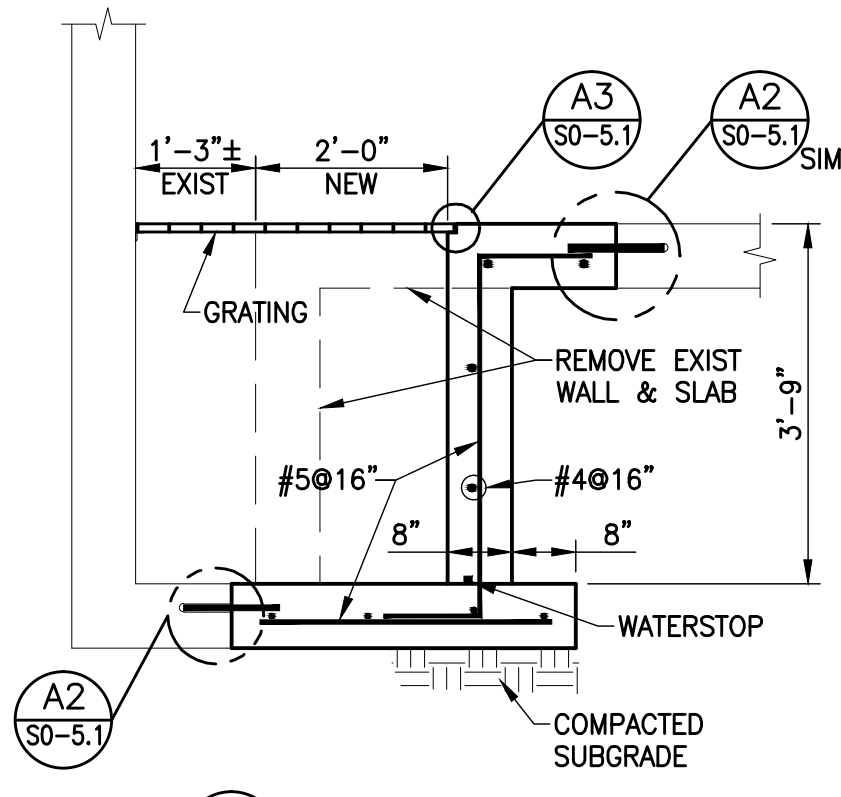
A ENLARGED PLAN AT SUMP
SCALE: 1/2"=1'-0"



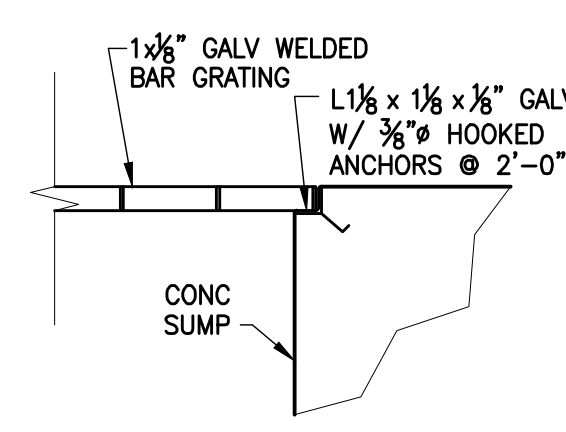
A2 DETAIL
SCALE: 1 1/2"=1'-0"

DRAWING NOTES: X
1. REPLACE EXISTING GRATING W/ WELDED STL GRATING W/ 1 1/2" BEARING BARS @ 1 1/2" GALV. COORDINATE OPENINGS FOR PIPING.

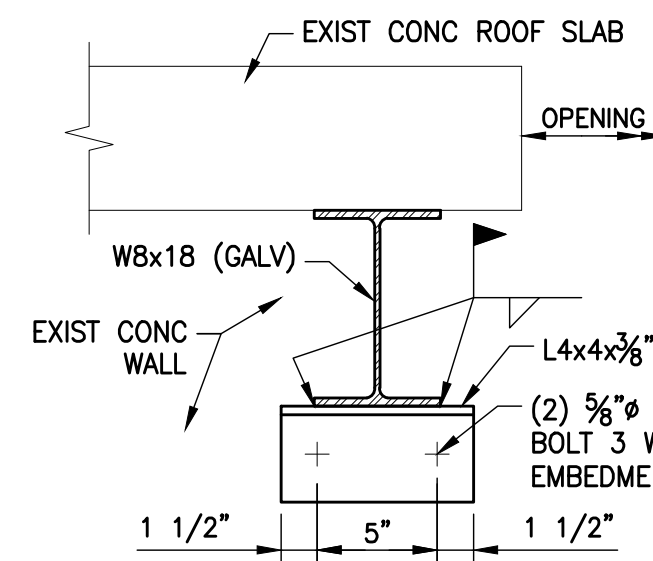
DRAWING NOTES: X
1. SLAB IS ASSUMED TO BE 8". MATCH EXISTING THICKNESS.
2. DETAIL SIMILAR AT EXISTING SUMP WALLS.



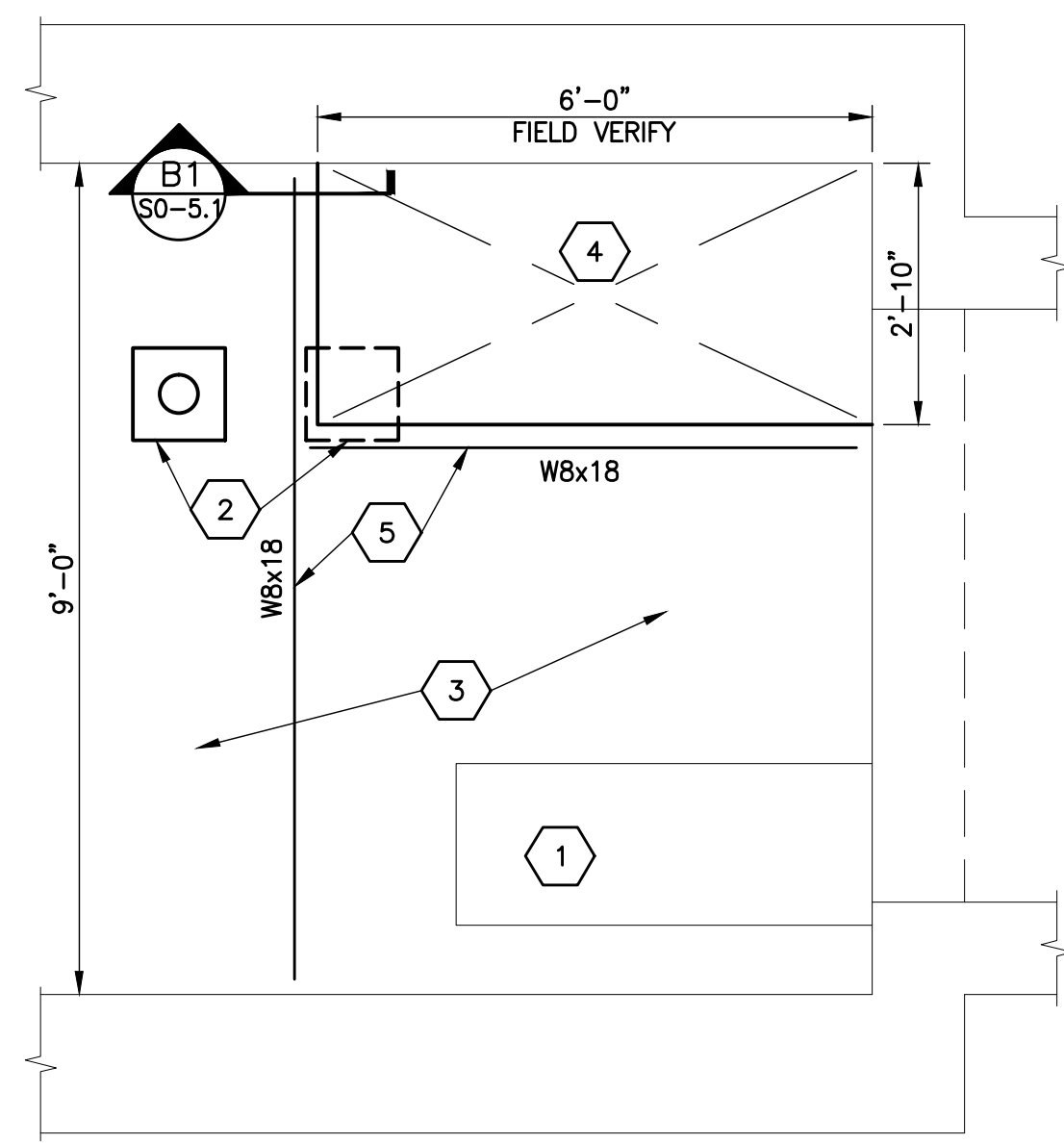
A1 SECTION
SCALE: 1/2"=1'-0"



A3 DETAIL
SCALE: 1 1/2"=1'-0"

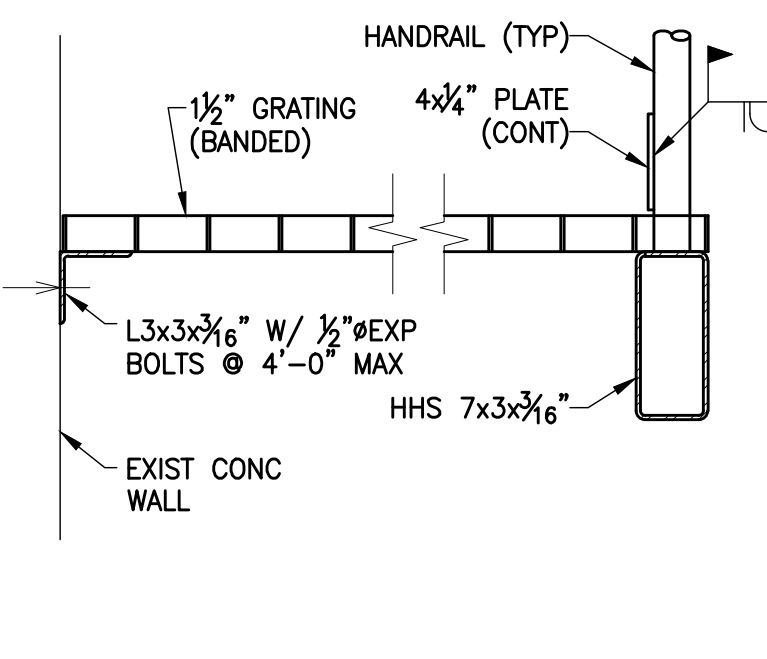


B1 SECTION
SCALE: 1 1/2"=1'-0"

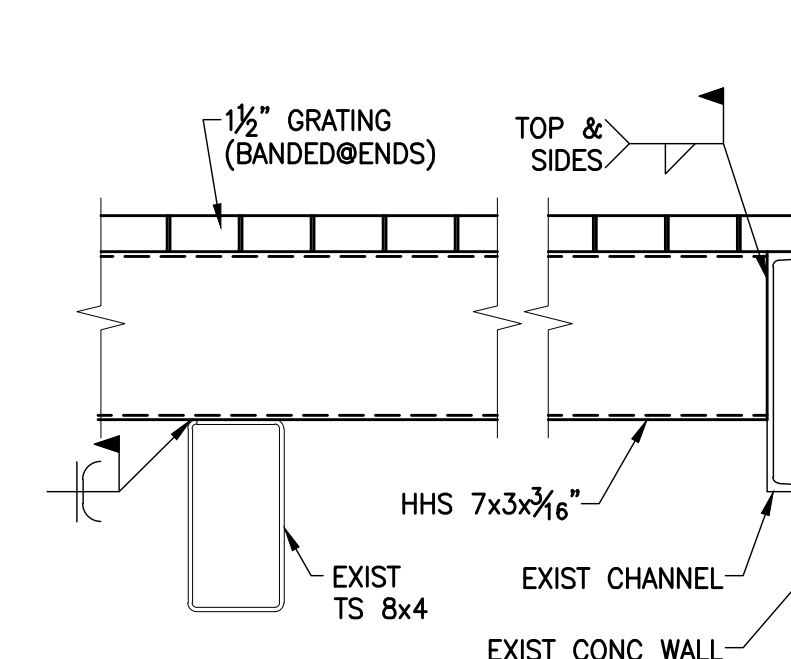


B ENLARGED PLAN AT ROOF
SCALE: 1/2"=1'-0"

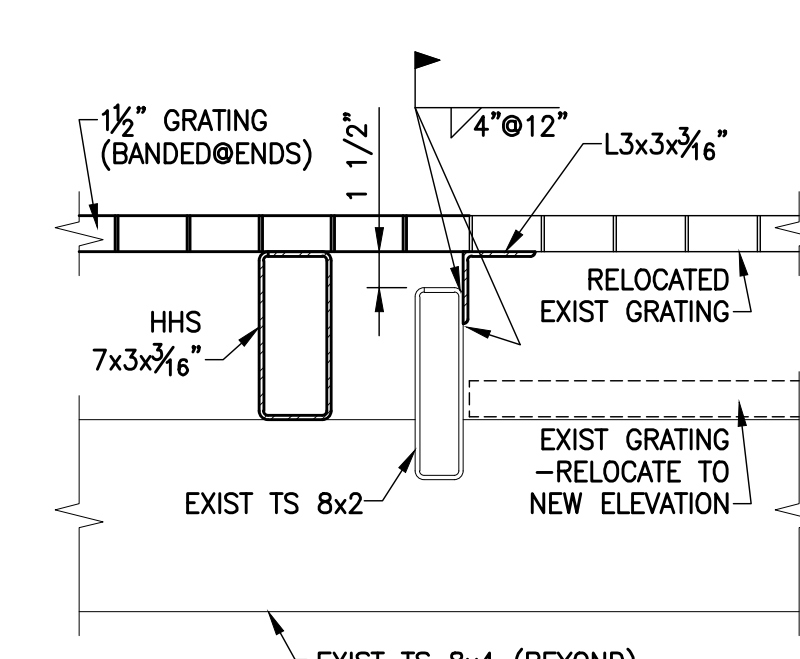
DRAWING NOTES: X
1. EXISTING DUCT AND HOOD TO REMAIN.
2. RELOCATE ROOF DRAIN TO THE WEST.
3. EXISTING ROOFING AND CONC. SLAB.
4. SAW CUT OPENING. PROVIDE ENCLOSURE PER MECH DWGS.
5. GALV STEEL FRAMING TO SUPPORT ROOF AND ENCLOSURE, NOT PIPING.



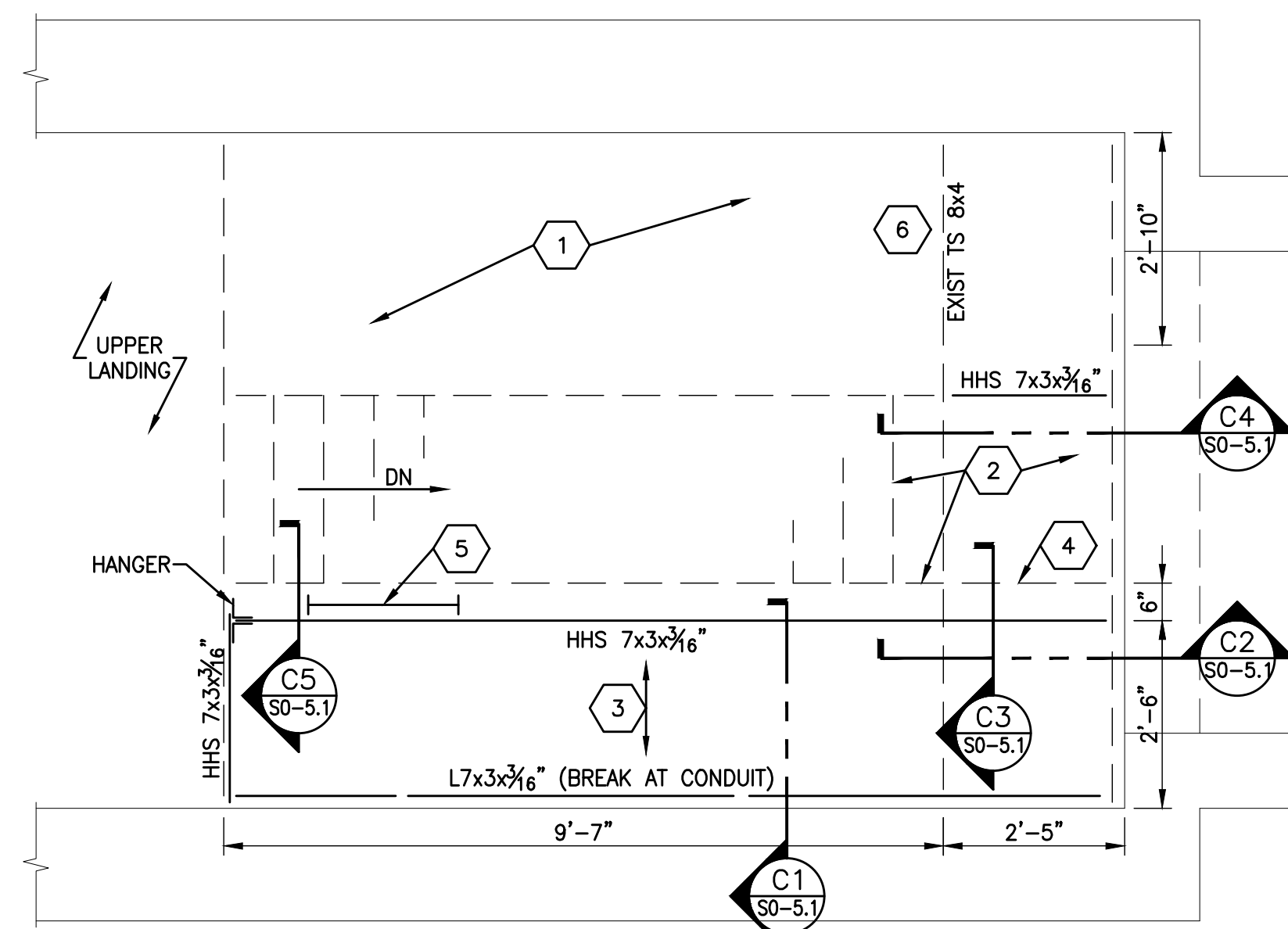
C1 SECTION
SCALE: 1 1/2"=1'-0"



C2 SECTION
SCALE: 1 1/2"=1'-0"

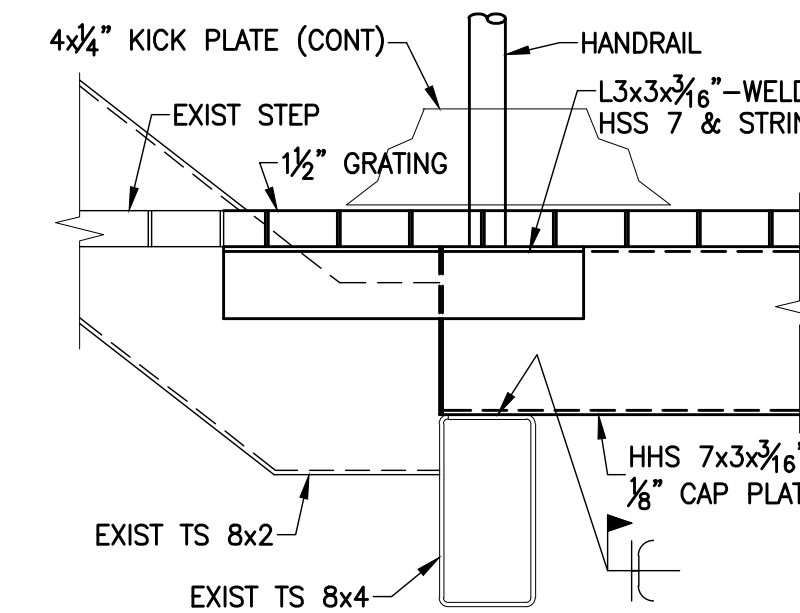


C3 SECTION
SCALE: 1 1/2"=1'-0"

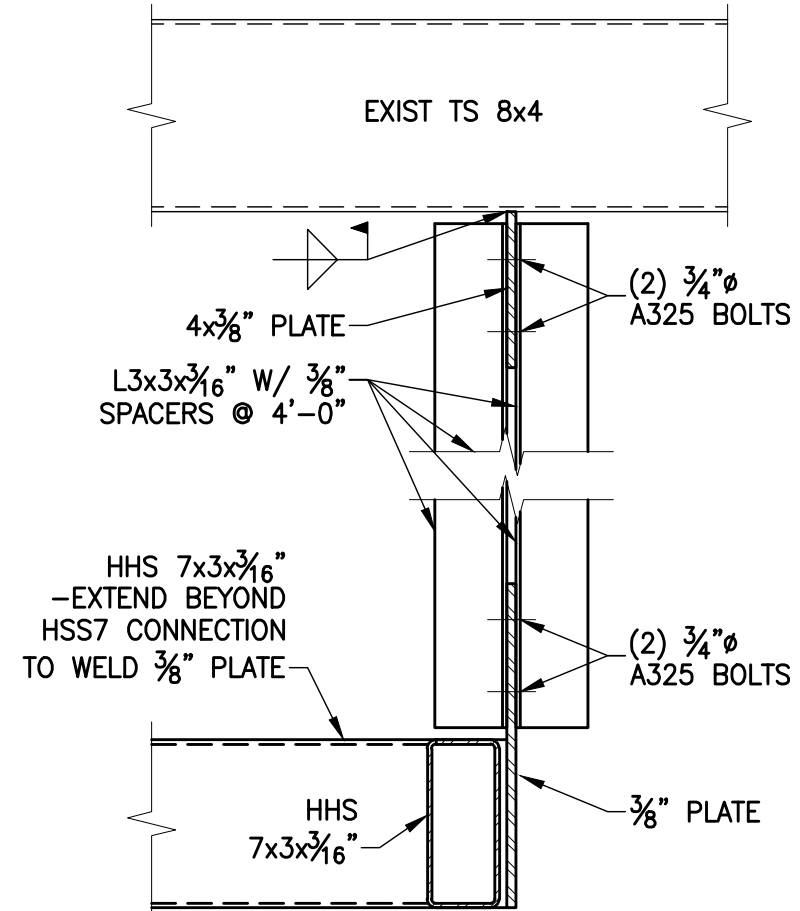


C ENLARGED PLAN AT INTERIOR STAIR
SCALE: 1/2"=1'-0"

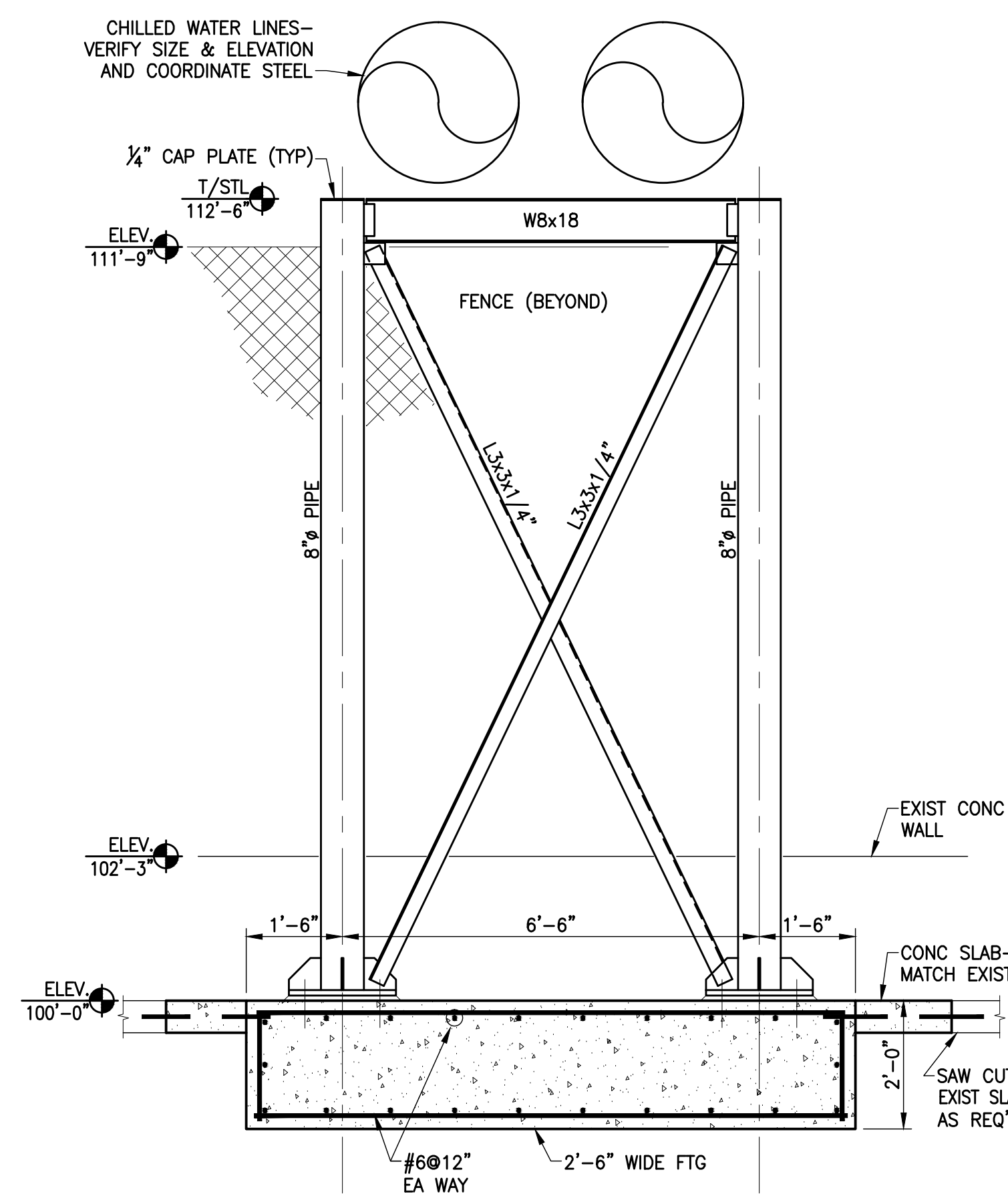
DRAWING NOTES: X
1. REMOVE EXISTING STAIRS, STRINGERS, HANDRAIL, AND GRATING @ INTERMEDIATE LANDING.
2. MODIFY EXISTING INTERMEDIATE LANDING, RAISE GRATING 7" TO MATCH STEP, INSTALL SUPPORT AND HANDRAIL AS DETAILED.
3. 1 1/2" METAL GRATING (GALV), BANDED AT ENDS.
4. MODIFY EXISTING FRAMING AS DETAILED TO SUPPORT GRATING, REMOVE HANDRAIL. ALL STEEL TO BE GALVANIZED.
5. PROVIDE STANDARD GALV LADDER TO TUNNEL FLOOR.
6. EXISTING TS 8x4 TO REMAIN.



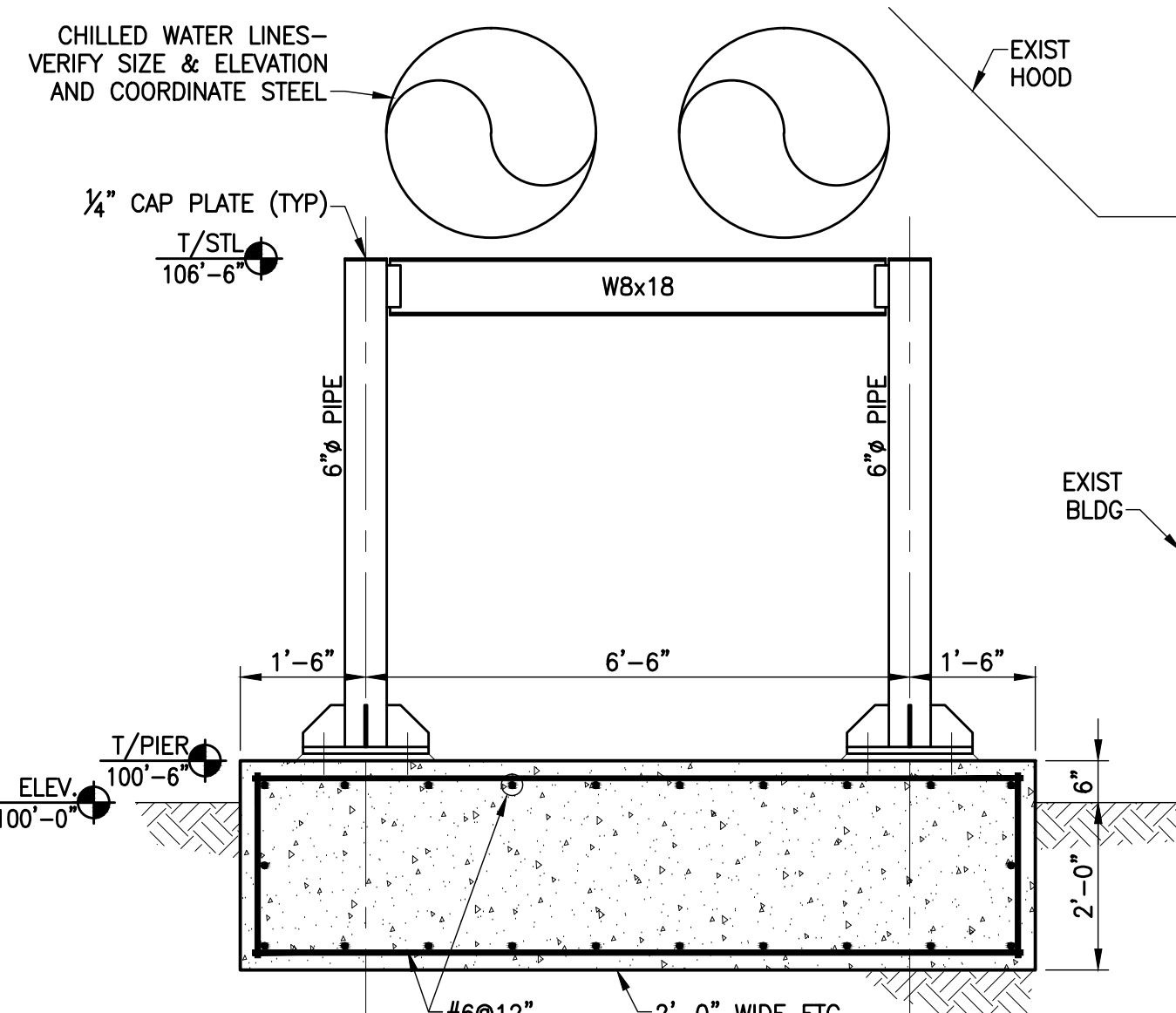
C4 SECTION
SCALE: 1 1/2"=1'-0"



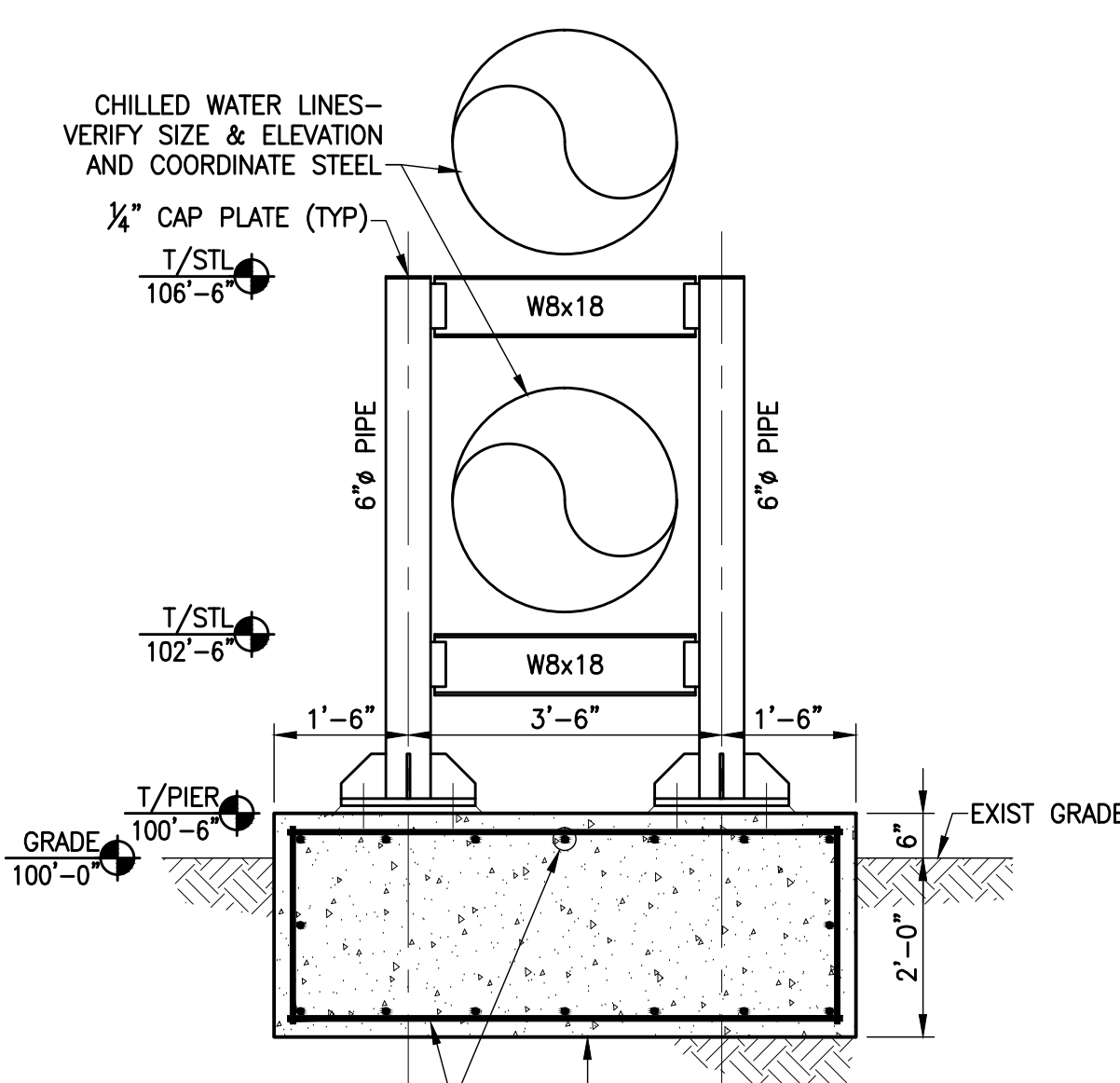
C5 SECTION
SCALE: 1 1/2"=1'-0"



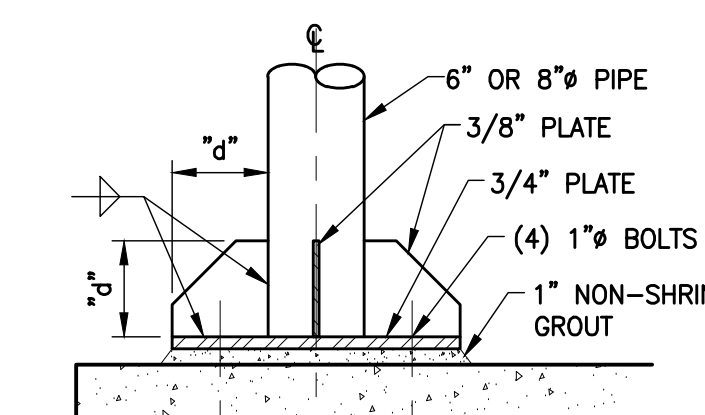
1 SECTION
SCALE: 1/2"=1'-0"



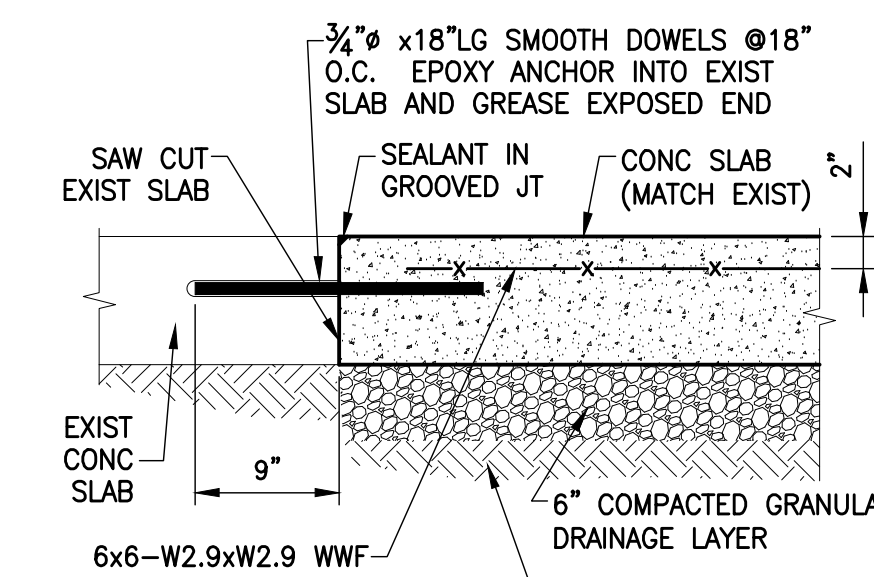
2 SECTION
SCALE: 1/2"=1'-0"



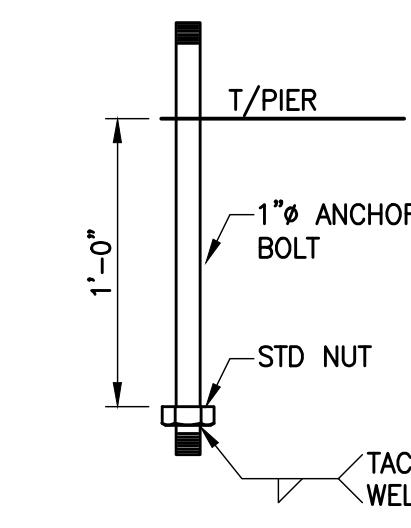
3 SECTION
SCALE: 1/2"=1'-0"



BASE PLATE DETAIL
SCALE: 1"=1'-0"
NOTE: AT 6" PIPE, "d"=6". AT 8" PIPE, "d"=6" (MIN). COORDINATE W/ BRACING CONNECTION.



SLAB REPAIR DETAIL
SCALE: 1"=1'-0"
NOTE: DETAIL SIMILAR AT FOOTING.



TYP ANCHOR BOLT
SCALE: 1 1/2"=1'-0"

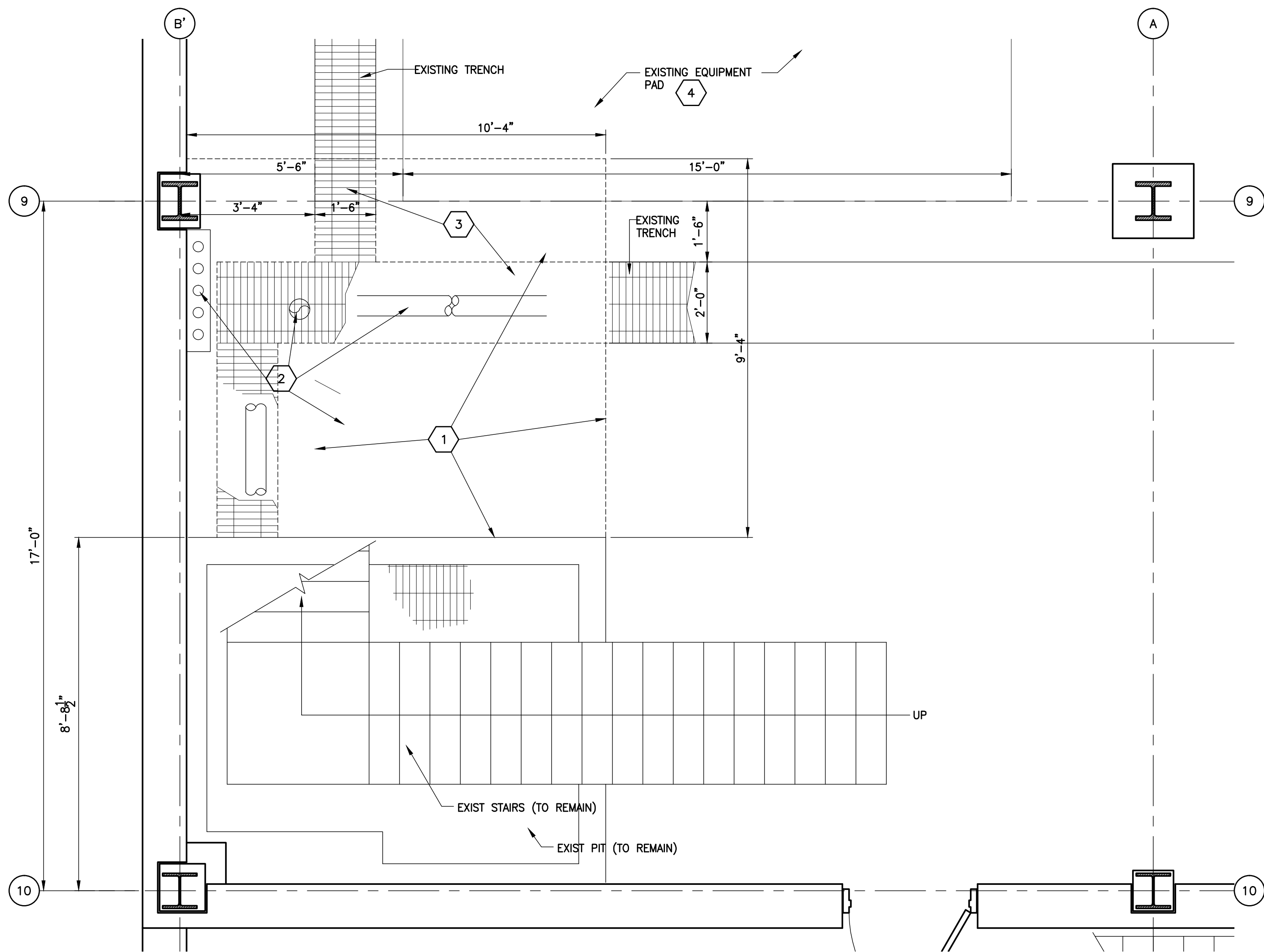
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RECORD DRAWINGS

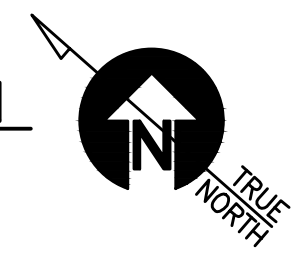
No.	Date	Description
1	10-9-07	RFQ 007 PCO 047
RD-1	09-01-11	RECORD DRAWINGS

Drawing Title:
**STRUCTURAL
MEDICAL CENTER
UTILITY TUNNEL
DETAILS**

GBN Job No:	10247.04
Job No:	03350
CAD File:	S0-5.1.dwg
Scale:	AS NOTED
Date:	09-07-07



COOLING PLANT #3 - PARTIAL FIRST FLOOR DEMOLITION PLAN
SCALE: 1/2"=1'-0"

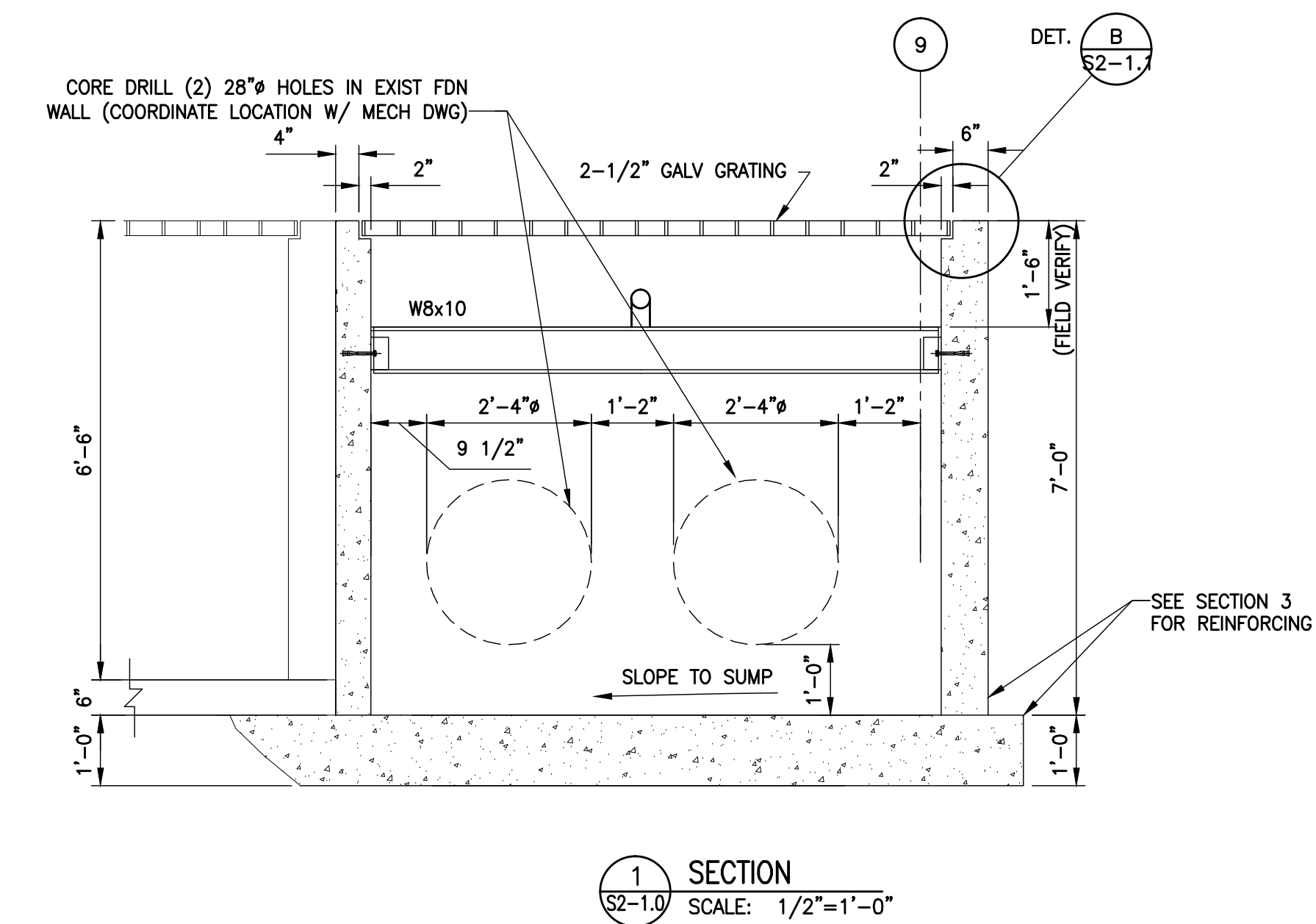


GENERAL NOTES:

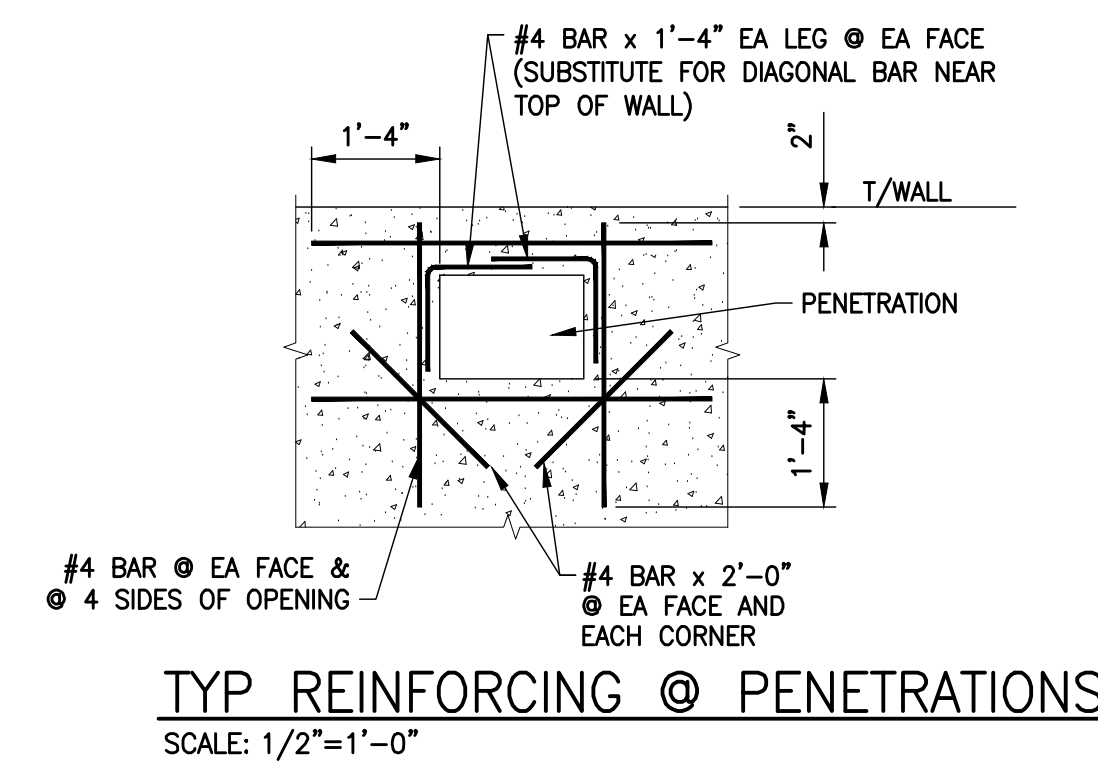
1. THE WALLS OF THE NEW PIT HAVE BEEN DESIGNED TO ASSUME A MINOR LATERAL LOAD FROM EXISTING ADJACENT EQUIPMENT AT THE FIRST FLOOR. THE WALLS HAVE NOT BEEN DESIGNED TO SUPPORT A SUBSTANTIAL LATERAL LOAD THAT MAY BE ASSOCIATED WITH A BOILER. ANY FUTURE USE OF THE AREA ADJACENT TO THE PIT MUST CONSIDER THE ADDITIONAL LATERAL LOAD ON THE PIT WALLS.

DRAWING NOTES:

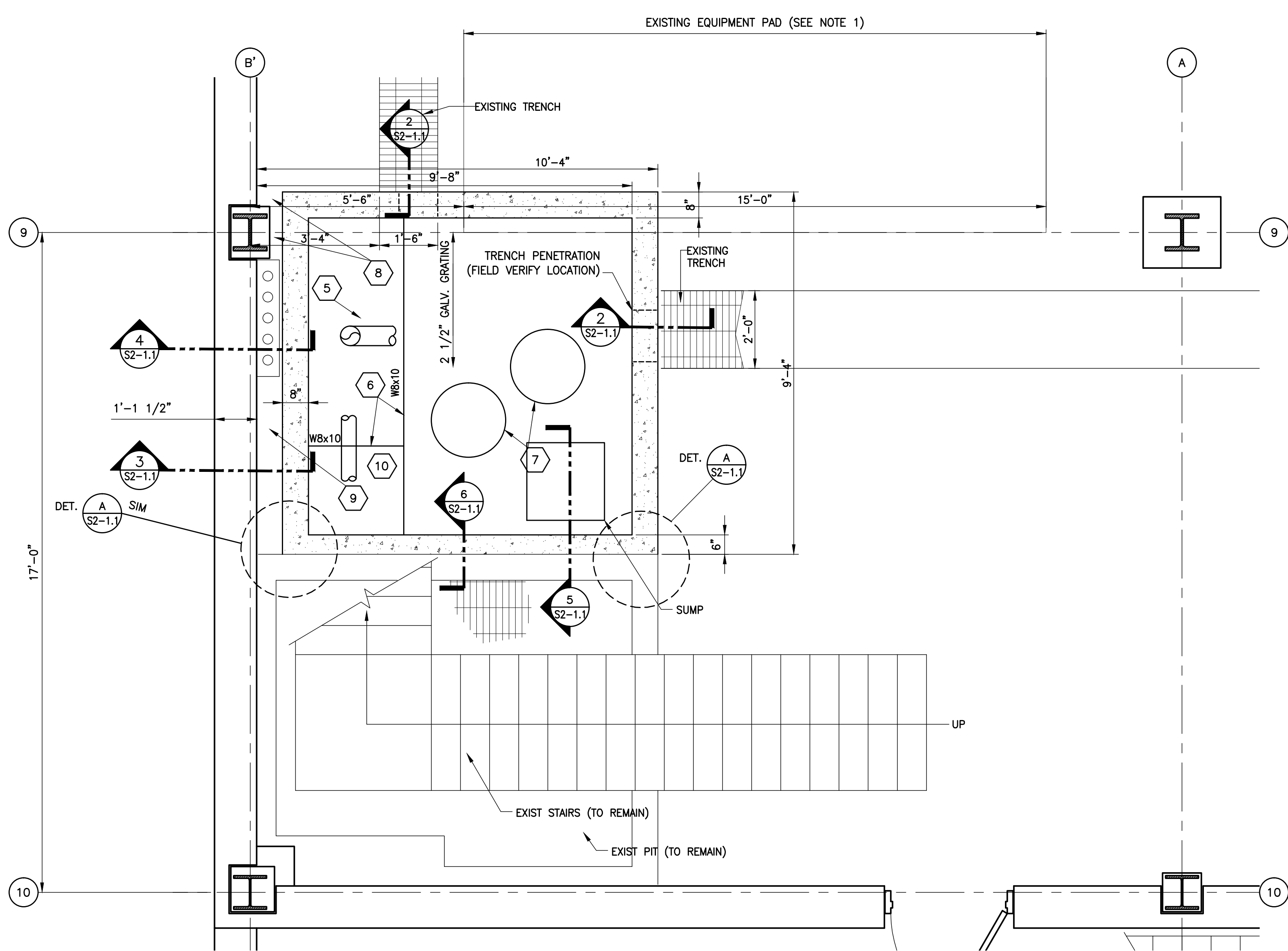
- 1 SAW CUT AND REMOVE EXISTING 6" SLAB, AND EXCAVATE AS REQUIRED TO INSTALL PIT.
- 2 TEMPORARILY SUPPORT EXISTING PIPING AS REQ'D DURING CONSTRUCTION.
- 3 SAW CUT AND REMOVE EXISTING TRENCH AND GRATING AS REQ'D TO INSTALL PIT, AND REINSTALL TO EDGE OF PIT.
- 4 EXISTING EQUIPMENT PAD IS A 9" SLAB THICKENED TO 15" @ PERIMETER.
- 5 PROVIDE BANDED PENETRATION THROUGH GRATING FOR EXISTING PIPE
- 6 SUPPORT EXISTING PIPES AS SHOWN. FIELD LOCATE SUPPORT BEAMS. COORDINATE LOCATIONS WITH MECHANICAL DRAWINGS. PIPES TO BE SUPPORTED IN TRENCH BEFORE ENTERING PIT. SUPPORT TO MATCH EXISTING.
- 7 PROVIDE BANDED PENETRATION THROUGH GRATING FOR NEW PIPING. GRATING TO BE DESIGNED FOR THESE PENETRATIONS. COORDINATE REQUIRED SIZES AND LOCATIONS WITH MECHANICAL DRAWINGS PRIOR TO ANY CONSTRUCTION.
- 8 6" INFILL CONCRETE SLAB WITH SIMILAR REINFORCING SHOWN IN SECTION 3 ON S2-1.1. TOP OF SLAB TO MATCH TOP OF EXISTING SLAB.
- 9 FIELD LOCATE WEST PIT WALL. EXTERIOR FACE TO MATCH PIPING BOX OUT.
- 10 PROVIDE REMOVABLE GRATING PANEL IN THIS AREA. COORDINATE LOCATION WITH PIPING AND SUPPORT BEAMS TO ALLOW ACCESS TO THE BOTTOM OF PIT. PROVIDE MANHOLE TYPE STEPS CAST INTO WALL. LOCATE STEPS UNDER REMOVABLE PANEL AND SPACE VERTICALLY AT 1'-0" MAX.



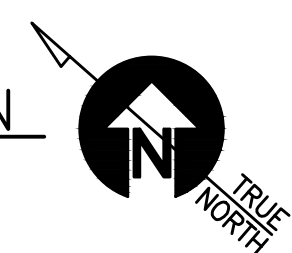
SECTION 1
SCALE: 1/2"=1'-0"



TYP REINFORCING @ PENETRATIONS
SCALE: 1/2"=1'-0"



COOLING PLANT #3 - PARTIAL FIRST FLOOR PLAN
SCALE: 1/2"=1'-0"



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IN ASSOCIATION WITH

A.M. KINNEY

AND

ELLERBE BECKET

CONSULTANT

UK

Construct Patient
Care Facility

UK # 2239.3B

BP - 3B

INFRASTRUCTURE

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RECORD DRAWINGS

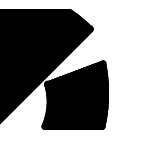
No.	Date	Description
1	02-15-07	CONTRACT DOCUMENT ISSUE
	08-21-09	RECORD DRAWINGS
RD-1	09-01-11	RECORD DRAWINGS

Drawing Title:
**STRUCTURAL
COOLING PLANT #3
FIRST FLOOR PLAN
AND SECTIONS**

GBBN Job No:	10247.04
Job No:	03350
CAD File:	s2-1.0.dwg
Scale:	AS NOTED
Date:	02-15-07
Spcl:	

S2-1.0

J:\UK BP-3 Record Drawings\Drawings\s2-1.0.dwg=82-1.0 Aug 24, 2011 9:18:00am - gffraym



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Drawing Issue:

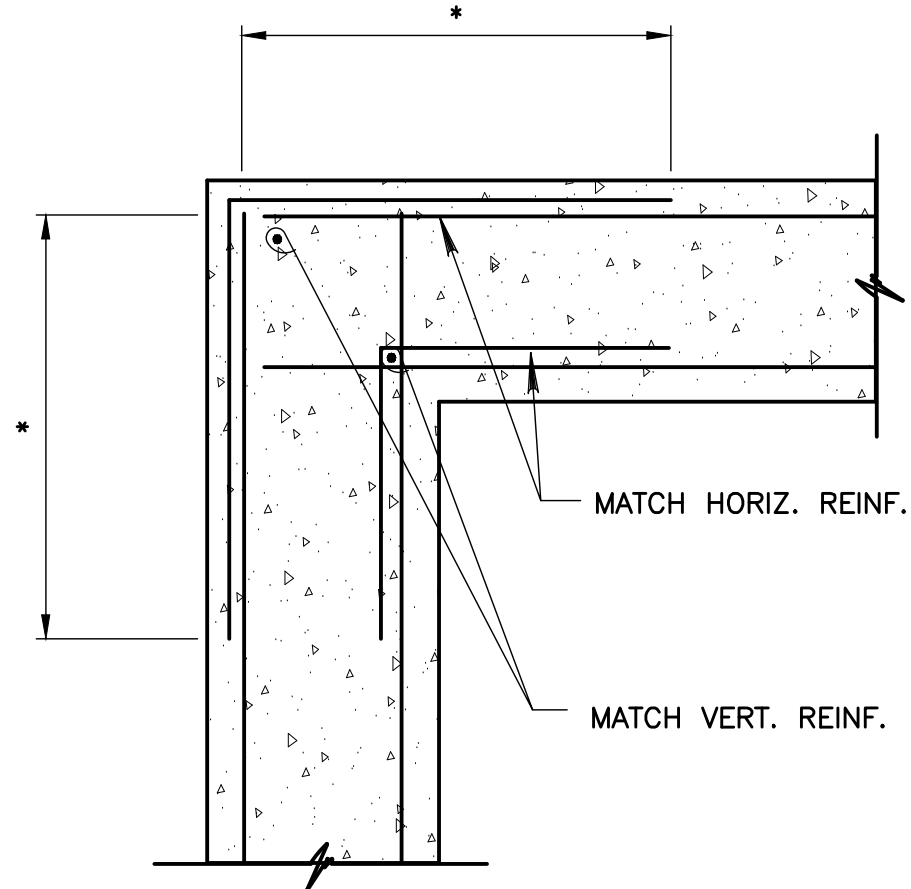
RECORD DRAWINGS

No.	Date	Description
1	02-15-07	CONTRACT DOCUMENT ISSUE
	08-21-09	RECORD DRAWINGS
RD-1	09-01-11	RECORD DRAWINGS

Drawing Title:

**STRUCTURAL
COOLING PLANT #3
MISCELLANEOUS DETAILS**

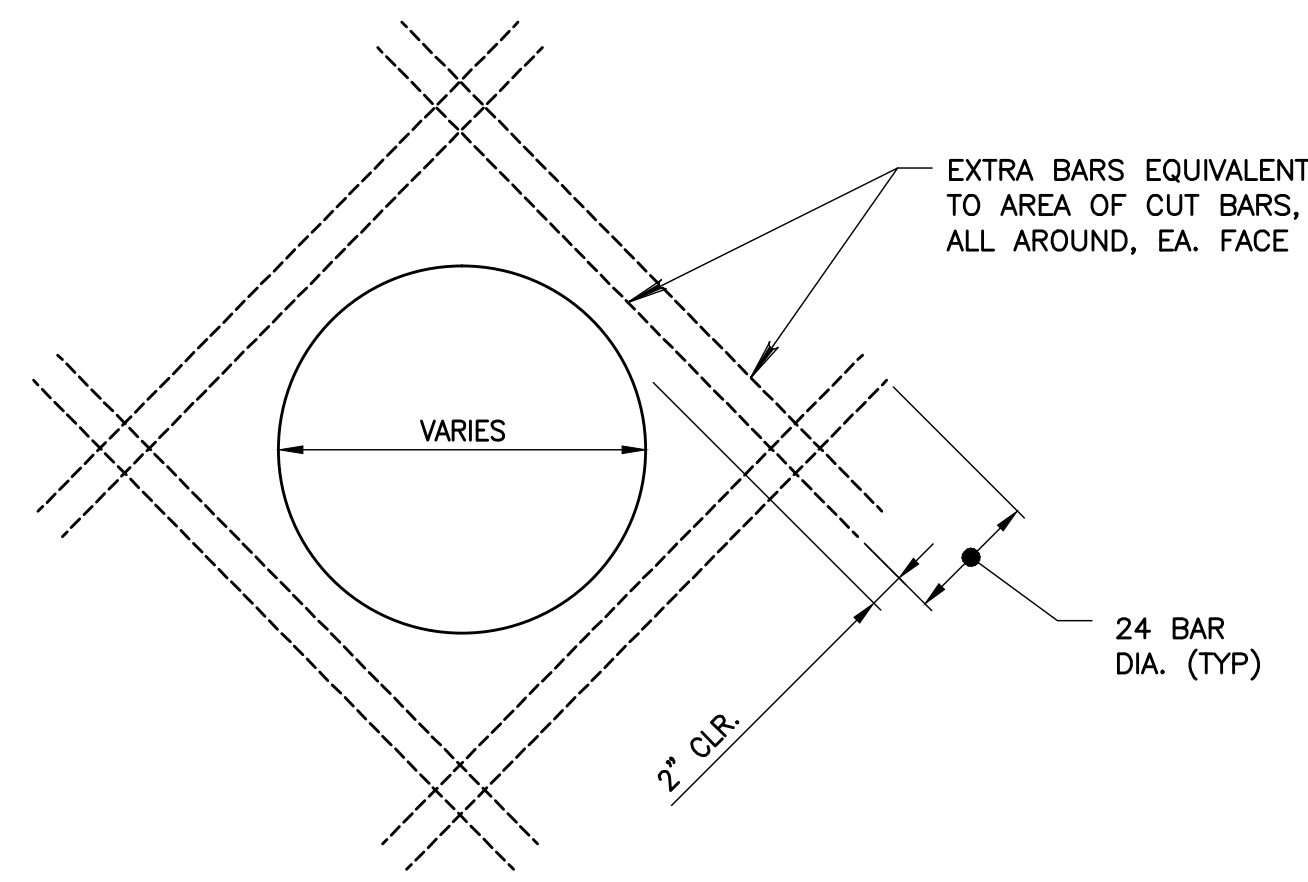
GBBN Job No:	10247.04
Job No:	03350
CAD File:	S2-1.1.dwg
Scale:	AS NOTED
Date:	02-15-07



* LAP AS REQ'D. PER ACI CODE

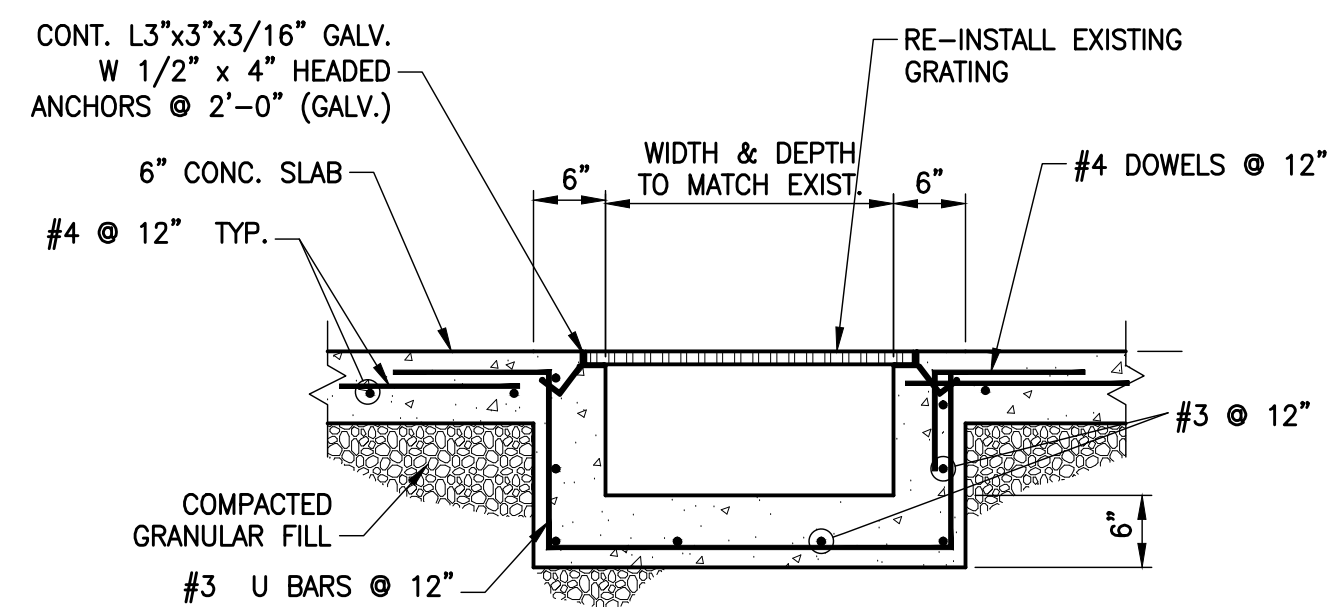
TYP CORNER REINFORCEMENT

SCALE: 3/4"=1'-0"



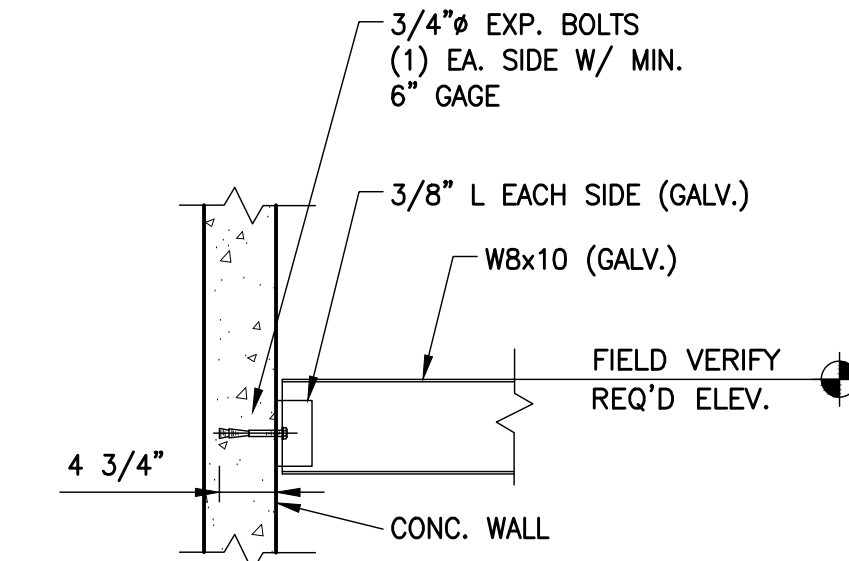
TYP PENETRATION REINFORCING

SCALE: 3/4"=1'-0"



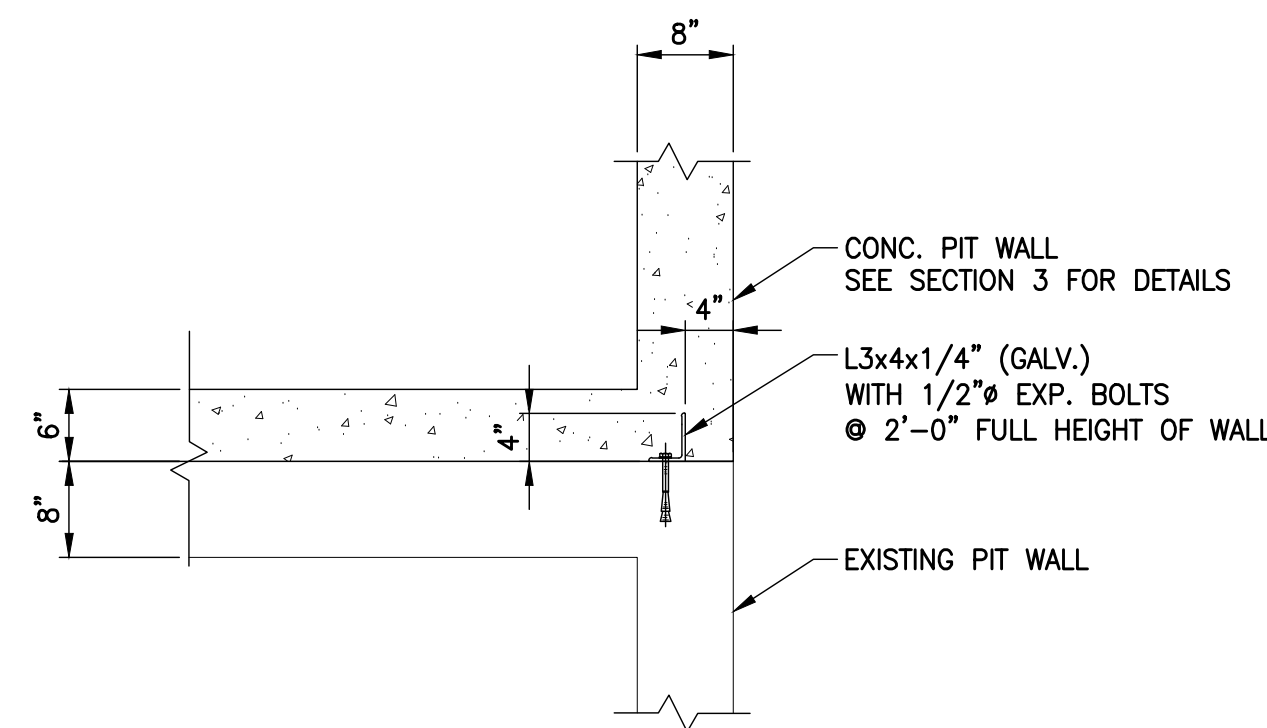
TYP TRENCH DETAIL

SCALE: 3/4"=1'-0"



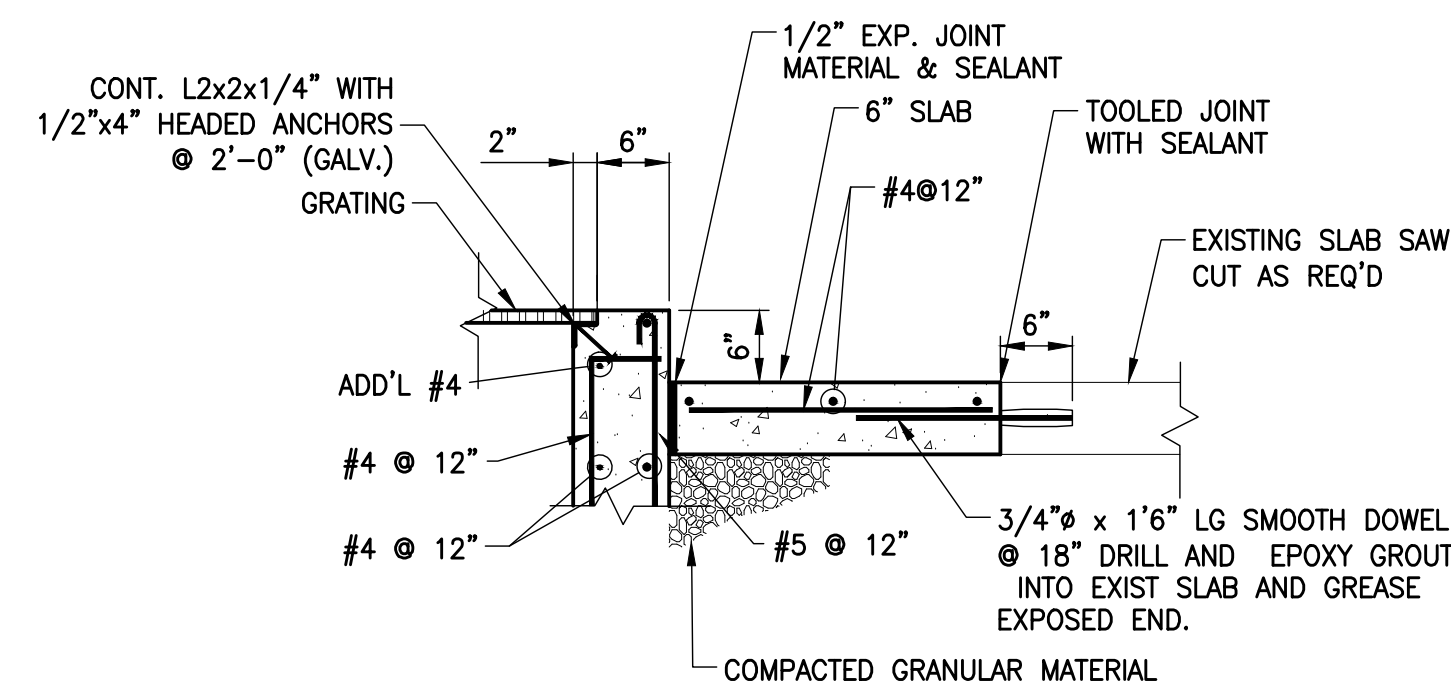
TYP BEAM CONNECTION

SCALE: 3/4"=1'-0"



DETAIL A

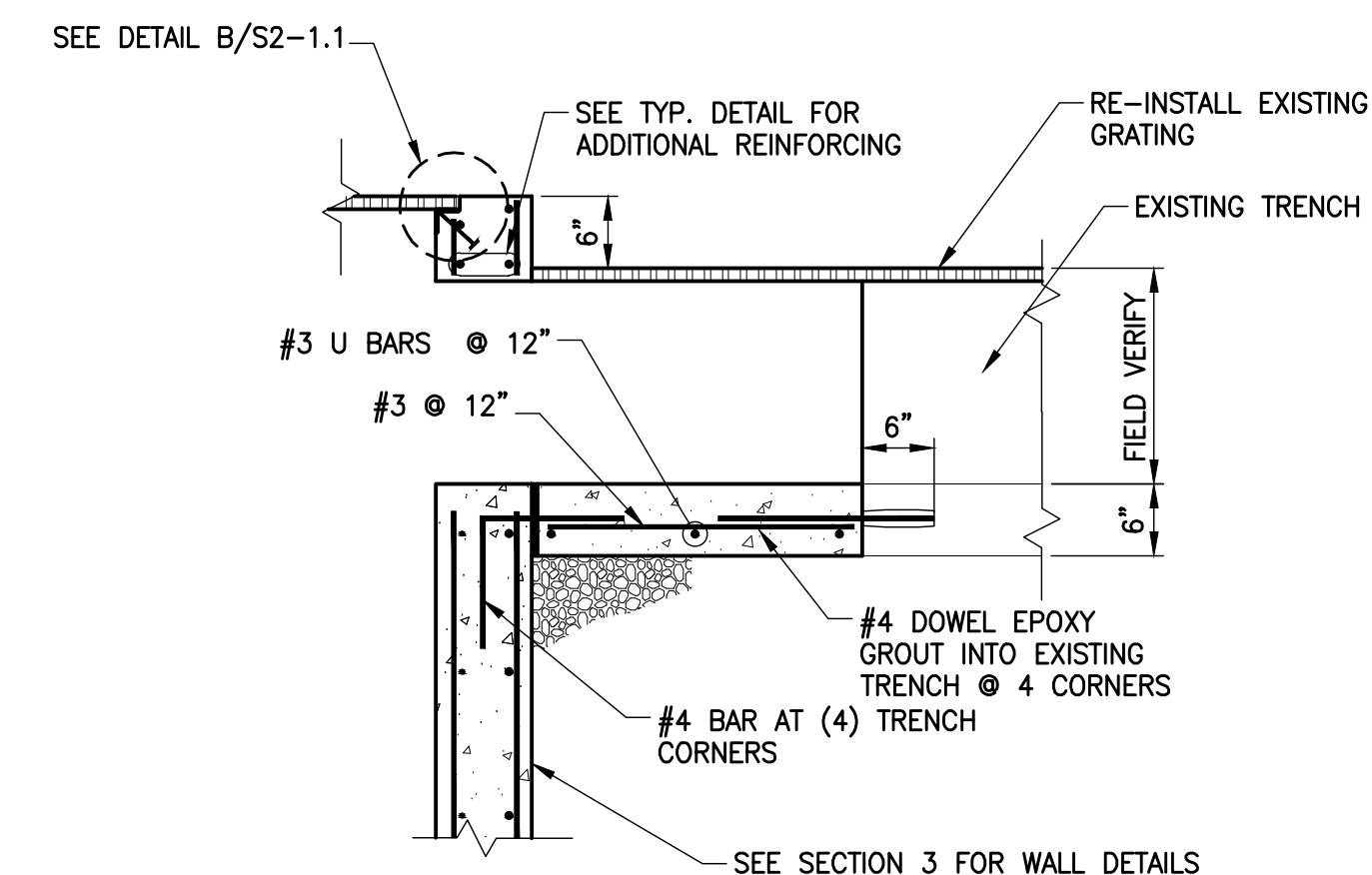
SCALE: 3/4"=1'-0"



DETAIL B

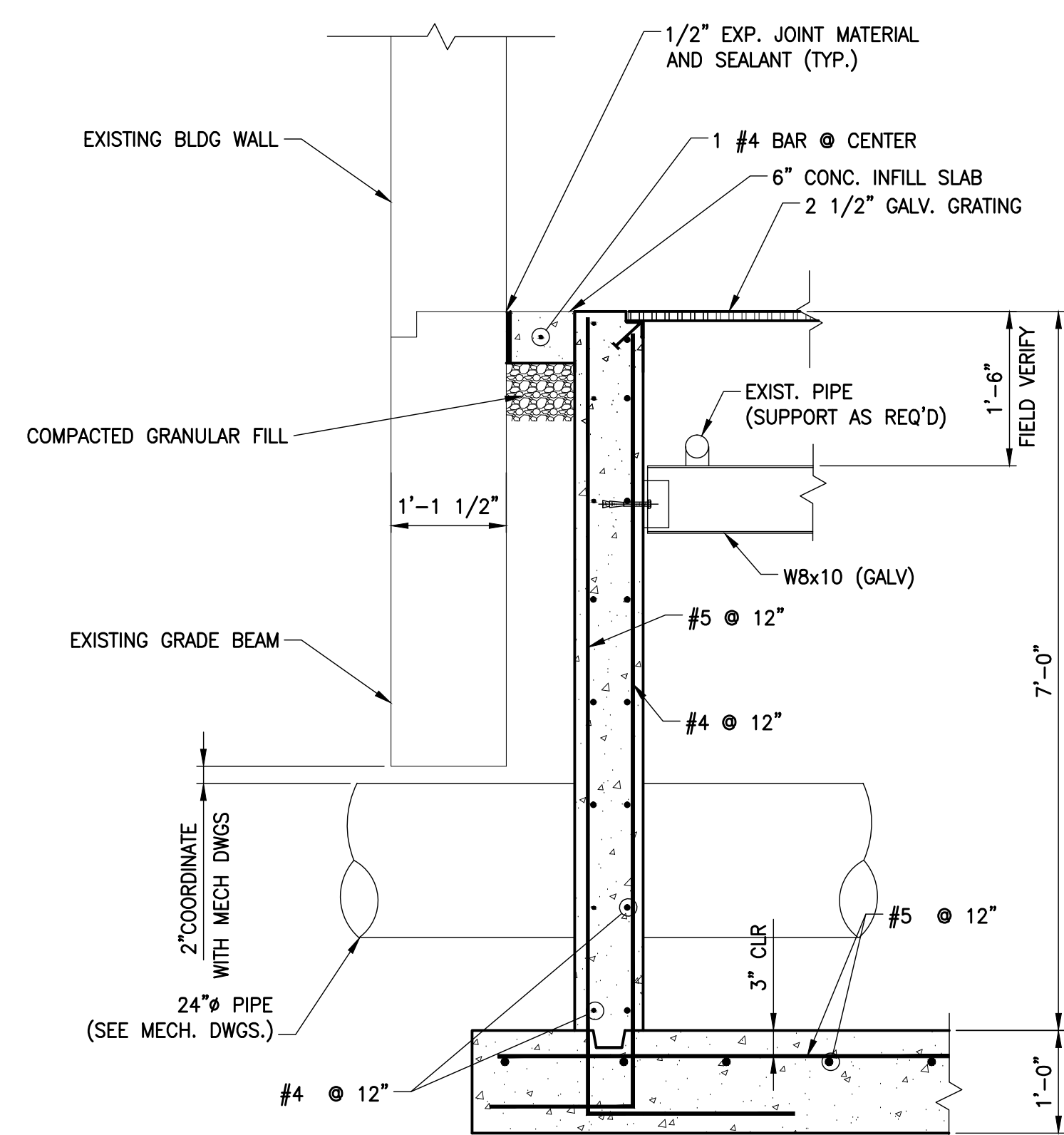
SCALE: 3/4"=1'-0"

NOTE: EXISTING SLAB MAY BE 6" FLOOR SLAB OR 9" EQUIP. PAD



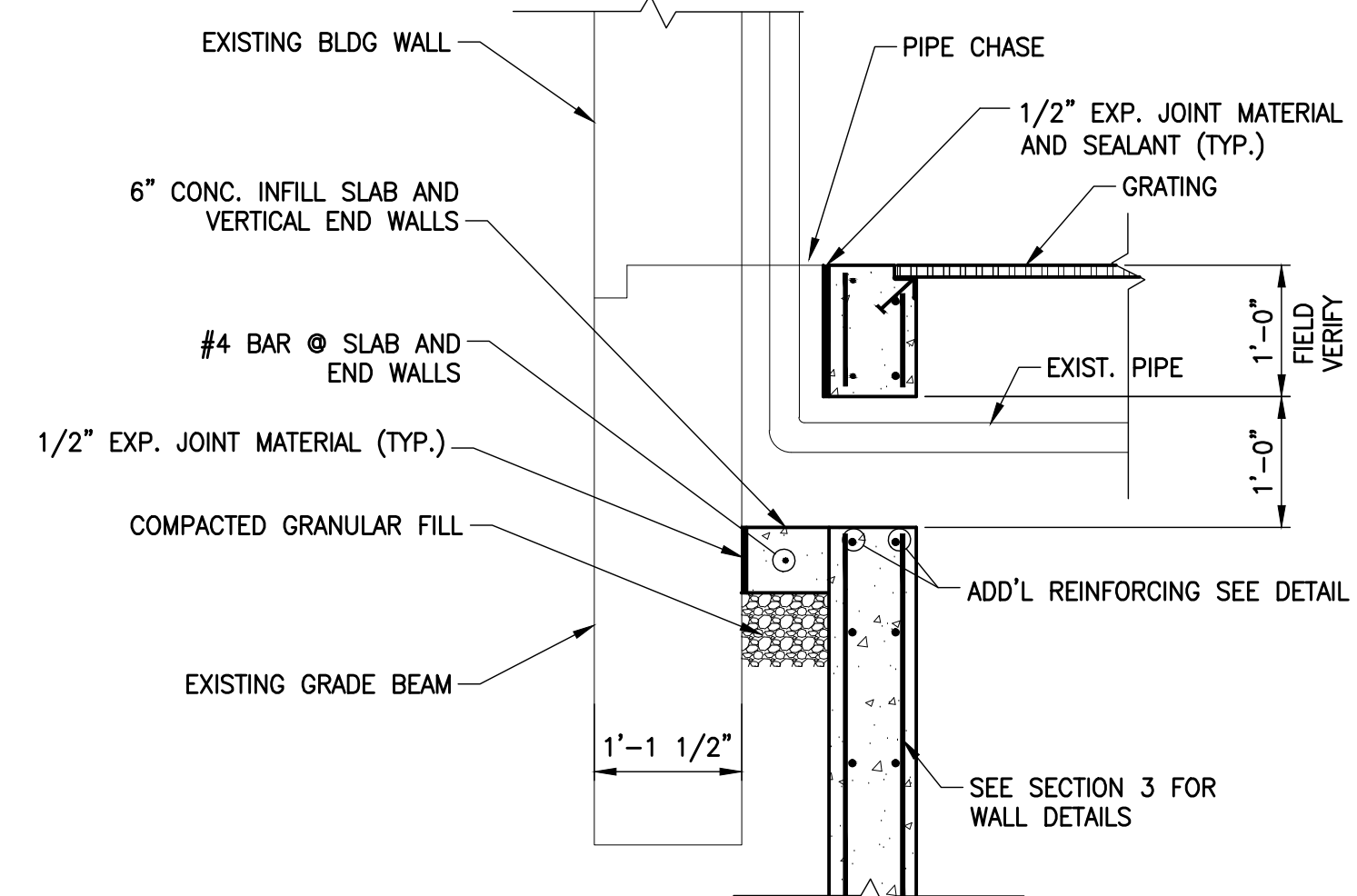
SECTION 2

SCALE: 3/4"=1'-0"



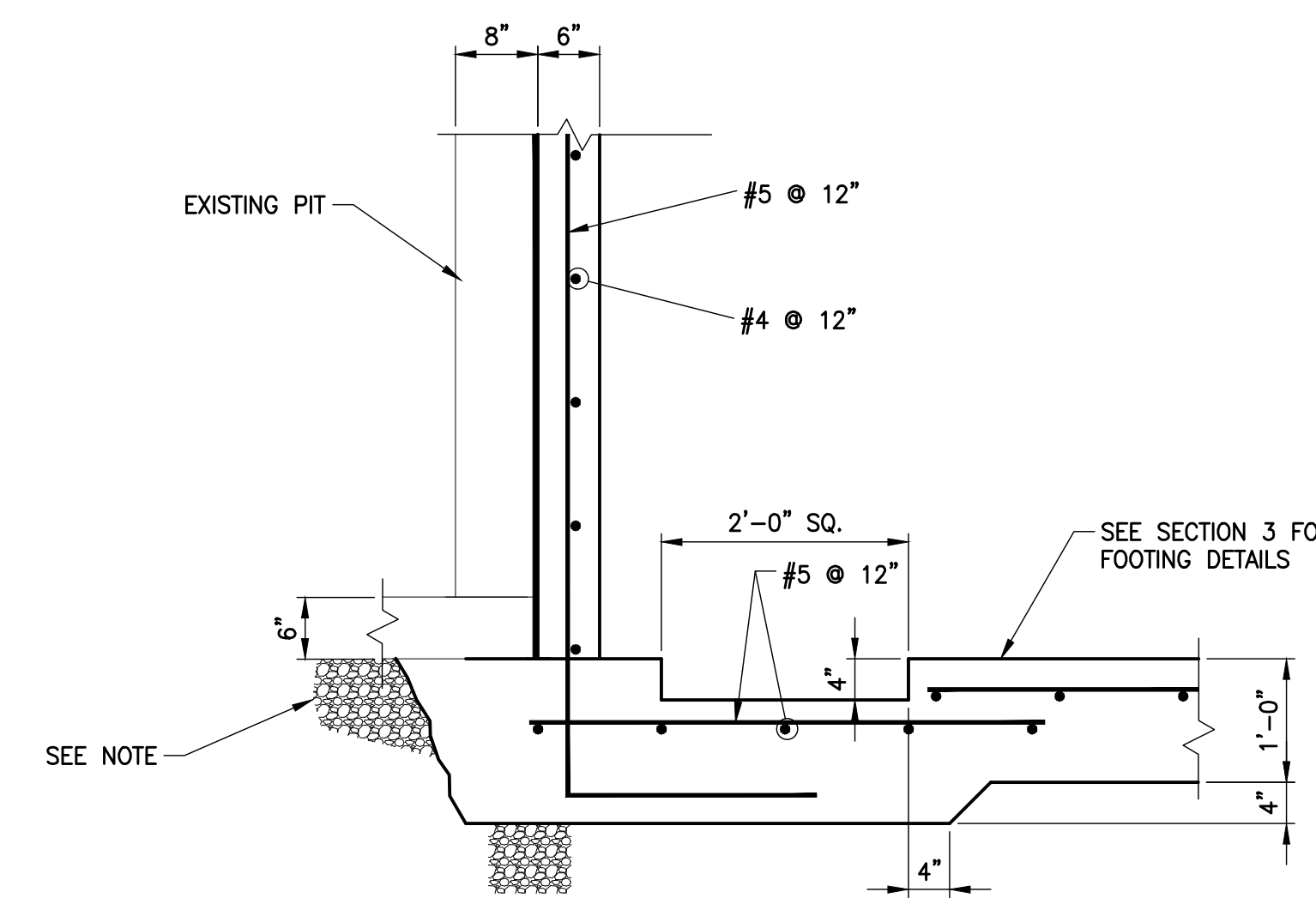
SECTION 3

SCALE: 3/4"=1'-0"



SECTION 4

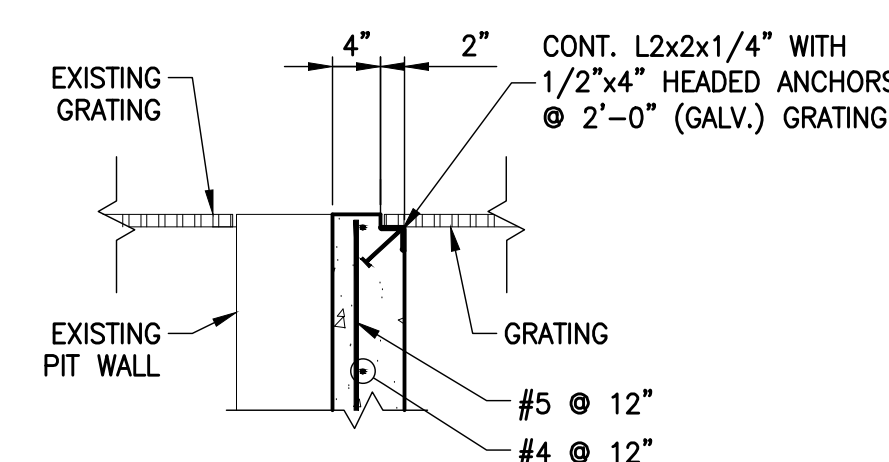
SCALE: 3/4"=1'-0"



SECTION 5

SCALE: 3/4"=1'-0"

NOTE: CONTRACTOR SHALL ENSURE THAT SETTLEMENT OF OR DISTRESS IN THE EXISTING PIT DOES NOT OCCUR DURING CONSTRUCTION ACTIVITY. CONTRACTOR SHALL ENSURE THAT THE EXISTING PIT IS COMPLETELY BEARING ON SUB BASE OF COMPACTED GRANULAR MATERIAL OR FLOWABLE CONCRETE FILL BEFORE INSTALL NEW PIT WALL.



SECTION 6

SCALE: 3/4"=1'-0"

ELECTRICAL

CONDUITS, LIGHTING, ETC.	
	CONDUIT BELOW FLOOR
	CONDUIT ABOVE FLOOR
	WIREWAY OR CABLE TRAY
	MULTI-OUTLET RACEWAY
	CEILING OUTLET FOR LIGHT FIXTURE
	WALL OUTLET FOR LIGHT FIXTURE
	LIGHT OUTLET ON EMERGENCY CIRCUIT
	EXIT LIGHT (CEILING MOUNTED)
	EXIT LIGHT (WALL MOUNTED)
	FLUORESCENT LIGHT FIXTURE
	PANELBOARD OR TERMINAL CABINET
	JUNCTION BOX
	DISCONNECT SWITCH
	MAGNETIC STARTER
	COMBINATION MAGNETIC STARTER AND SWITCH
	MOTOR
	BOTTOM OF DEVICE (IN INCHES A.F.F.)
	SEE NOTE 1 THIS SHEET
RECEPTACLES (BOTTOM 16" A.F.F.) (EXCEPT AS NOTED OTHERWISE)	
	DUPLEX CONVENIENCE OUTLET
	QUADPLEX CONVENIENCE OUTLET
	GROUND FAULT INTERRUPTING OUTLET
	WEATHERPROOF OUTLET
	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT
	WALL OUTLET (240V, 1-PHASE) (RATING AS NOTED)
	ELECTRICAL OUTLET IN FLOOR
	EQUIPMENT CONNECTION
COMMUNICATIONS (BOTTOM 16" A.F.F.) (EXCEPT AS NOTED OTHERWISE)	
	COMMUNICATION OUTLET IN WALL (COMPUTER AND TELEPHONE)
	TELEPHONE OUTLET IN FLOOR
	COMMUNICATION OUTLET IN FLOOR (COMPUTER AND TELEPHONE)
	TELEPHONE OUTLET IN WALL
	T.V. RECEIVER OUTLET
SOUND AND INTERCOM	
	CEILING MOUNTED SPEAKER
	WALL MOUNTED SPEAKER
	VOLUME CONTROL
	MASTER INTERCOM STATION
	INTERCOM STATION
	MICROPHONE OUTLET IN FLOOR (FLUSH TYPE)
	MICROPHONE OUTLET IN WALL (BOTTOM 16" A.F.F.)
WALL SWITCHES (BOTTOM 44" A.F.F.) (EXCEPT AS NOTED OTHERWISE)	
	SINGLE POLE
	DOUBLE POLE
	THREE-WAY
	FOUR-WAY
	WITH PILOT LIGHT
	THERMAL OVERLOAD
	THERMAL OVERLOAD WITH PILOT
	COMBINATION SWITCH AND RECEPTACLE
	KEY OPERATED SWITCH
	WALL DIMMER (FLUSH-MOUNTED)
	THREE-WAY DIMMER
	PUSHBUTTON STATION
FIRE ALARM	
	SUPERVISED VALVE
	FIRE ALARM BREAKGLASS STATION (BOTTOM 44" A.F.F.)
	FLOW SWITCH
	DUCT TYPE SMOKE DETECTOR
	FIRE ALARM HORN
	FIRE ALARM HORN/FLASHING LIGHT (84" TO BOTTOM, WALL MNT)
	FIRE ALARM FLASHING LIGHT (84" TO BOTTOM, WALL MNT)
	AUTOMATIC HEAT DETECTOR
	SMOKE DETECTOR (CEILING MOUNTED)
	ALARM BELL
	ELECTROMAGNETIC DOOR HOLDER
	ELECTROMAGNETIC DOOR CLOSER

SECURITY	
	C1 MAGNETIC CONTACT SENTROL 1378C
	C2 MAGNETIC CONTACT SENTROL 2202A
	C3 MAGNETIC CONTACT 0/HI DR. CONCEALED SENTROL 2227A/SENTROL 1378C
	C4 SURFACE MAGNETIC CONTACT SENTROL 1047H
	CAMERA 1 - SONY SPT-104A, 6.0mm LENS MANUAL IRIS CAMERA WALL MOUNT, PAN/VISION 896
	CAMERA 2 - DOME WATEC 860GD, 6.0mm LENS POWER SUPPLY WAT-AD502A, 117AC/9VDC
	CAMERA 3 - CAMERA SONY SPT-104A, 6.0mm LENS, MANUAL IRIS, CAMERA WALL MOUNT, PAN/VISION 896 VIDEO MOTION DETECTOR
	CAMERA 4 - CAMERA SONY SPT-104A, 6.0mm LENS, AUTO IRIS, CAMERA WALL MOUNT, MED. DUTY, PELCO EM1900U ENVIRONMENTAL HOUSING BURLE T09393-1
	CAMERA 5 - SONY SPT-104A, 3.8-8.0mm ZOOM LENS, CAMERA CEILING MOUNT, PELCO EM1015U
	CAMERA 6 - CAMERA 2" DOME WATEC 860GD, 6.0mm LENS POWER SUPPLY WAT-AD502A, 117AC/9VDC
	CAMERA 7 - CAMERA 2" DOME WATEC 860GD, 3.8mm LENS POWER SUPPLY WAT-AD502A, 117AC/9VDC
	CAMERA 8 - CAMERA SONY SPT-104A, 6.0mm LENS, MANUAL IRIS, CAMERA WALL MOUNT, PAN/VISION 896
	CAMERA 9 - CAMERA SONY SPT-104A, 6.0mm LENS, MANUAL IRIS, CAMERA WALL MOUNT, PAN/VISION 896
	CAMERA 10 - CAMERA SONY SPT-104A, 8.5 - 39mm MOTORIZED ZOOM
	MOTION DETECTOR 1 - PIR WIDE ANGLE SENTROL 6250
	MOTION DETECTOR 2 - PIR SENTROL 6255FM CEILING
	MOTION DETECTOR 3 - PIR SENTROL 6255FM VERTICAL BARRIER WALL
	MOTION DETECTOR 4 - PIR SENTROL 6255FM WIDE ANGLE WALL
	MOTION DETECTOR 5 - PIR CURTAIN VISION CLIP-4
	MOTION DETECTOR 6 - PIR EXIT DETECTION SYS DS150
	MOTION DETECTOR 7 - PIR LONG RANGE DETECTION SYS DS776Z
	GLASSBREAK SENSOR 1 - ACOUSTIC GLASSBREAK SENTROL 5812A-W
	GLASSBREAK SENSOR 2 - PIR/GLASSBREAK, SENTROL 5885 360 CEILING (SEP. SENSORS)
	GLASSBREAK SENSOR 3 - PIR/GLASSBREAK, SENTROL 5885 360 CEILING (DUAL TECH)
	GLASSBREAK SENSOR 4 - GLASSBREAK SENTROL 5820A W/5828 TRIM PLATE
	GLASSBREAK SENSOR 5 - GLASSBREAK SENTROL 5815A-W
	GLASSBREAK SENSOR 6 - GLASSBREAK SENTROL 5715-4
	CARDREADER 1 - PROXIMITY CARDREADER
	CARDREADER 2 - PROXIMITY CARDREADER, EXTERIOR
	ELECTRIC STRIKE 1 - FOLGER-ADAMS 310-2 US26 FAIL SAFE
	ELECTRIC STRIKE 2 - FOLGER-ADAMS 310-2FS US26 FAIL SAFE
	MAGNETIC LOCK - M1 MAG LOCK, SHEAR, MORTISE, DR STATUS, ANTI-TAMP, LOCKMETSICS 280
	EXIT SENSOR - KANTECH T-REC-XL
	EXIT BUTTON, 2" DIA, LOCKNETICS 605
	REMOTE RELEASE BUTTON
	REMOTE INTERCOM 1 - AIPHONE NA-NE
	REMOTE INTERCOM 2 - AIPHONE NE-NVP
	REMOTE INTERCOM 3 - DESKTOP AIPHONE NA-A
	MASTER INTERCOM 4 - AIPHONE NEMA - ACCESS/ CAMERA CONTROL AIPHONE NDR
	POLICE CALL 1 - TO SECURITY CONTROL ADEMCO 629
	POLICE CALL 2 - TO OFF-SITE MONITORING/CONTROL STATION ADEMCO 629
	WIRELESS RECEIVER 1 - 16 ZONES INOVONICS FA464DR
	WIRELESS RECEIVER 2 - 4 ZONES INOVONICS FA16DR
	DELAY EXIT LOCK TDL1 - SINGLE DOOR DYNALOCK 3101/ATS/DMS
	DELAY EXIT LOCK TDL2 - DOUBLE DOOR DYNALOCK 1321/ATS/DMS2
	IMPACT SENSOR DS1500
	WATER FLOW SENSOR
	CAMERA 10 - CAMERA SONY SPT-104A 8.5 - 39mm MOTORIZED ZOOM
	SECURITY BELL
ELECTRICAL ABBREVIATIONS	
A.F.F.	ABOVE FINISHED FLOOR
A.T.C.P.	AUTOMATIC TEMPERATURE CONTROL PANEL
C.	CONDUIT
F.A.	FIRE ALARM
G.F.I.	GROUND FAULT INTERRUPTER
IG	ISOLATED GROUND
JB	JUNCTION BOX
T.T.C.	TELEPHONE TERMINAL CABINET
R	DEVICE OR OUTLET TO BE REMOVED
W.	WIRE
F.	FLUSH
P.	PEDESTAL
P.P.	PAY PHONE
NOTE: ALL DASHED DEVICES, OUTLETS, ETC., ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.	

PLUMBING LEGEND	
	SANITARY OR WASTE PIPING
	VENT PIPING
	ROOF LEADER PIPING
	STORM SEWER PIPING
	STORM DRAIN PIPING
	UNDERFLOOR DRAINAGE PIPING
	DRAIN LINE
	COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RECIRCULATING PIPING
	GAS PIPING
	AIR PIPING
	RETURN DUCT
	GATE VALVE
	BALL VALVE
	CHECK VALVE
	GAS COCK (SHUT-OFF VALVE)
	ELBOW (UP)
	ELBOW (DOWN)
	ELBOW (SIDE)
	TEE (UP)
	TEE (DOWN)
	TEE (SIDE)
	UNION
	REDUCER OR INCREASER
	WALL HYDRANT
	HOSE BIBB
	PRESSURE GAUGE
	THERMOMETER
	WASTE AND VENT RISER DIAGRAM DESIGNATION
	DOMESTIC HOT AND COLD WATER RISER DIAGRAM DESIGNATION
MEDICAL GAS LEGEND	
	OXYGEN PIPING
	NITROUS OXIDE PIPING
	NITROGEN PIPING
	MEDICAL AIR PIPING
	MEDICAL VACUUM PIPING
	WASTE GAS EVACUATION PIPING
	CARBON DIOXIDE PIPING
	LASER SMOKE EVACUATION PIPING
	HIGH-LOW PRESSURE SWITCH (PLAN)
FIRE PROTECTION LEGEND	
	FIRE PROTECTION MAIN
	SPRINKLER BRANCH PIPING
	ELBOW (UP)
	ELBOW (DOWN)
	ELBOW (SIDE)
	TEE (UP)
	TEE (DOWN)
	TEE (SIDE)
	SUPERVISED VALVE
	INSPECTOR'S TEST PIPING
	FLOW SWITCH
	SPRINKLER HEAD (PENDENT)
	SPRINKLER HEAD (CONCEALED)
	SPRINKLER HEAD (SEMI-RECESSED)
	SPRINKLER HEAD (UPRIGHT, HIGH TEMPERATURE UPRIGHT)
	SPRINKLER HEAD (SIDEWALL)
	SPRINKLER HEAD (SIDEWALL - EXTENDED COVERAGE)
	HYDRAULIC CALCULATION REFERENCE POINT
	ON/OFF SPRINKLER HEAD

MECHANICAL	
H.V.A.C. LEGEND	
	RECTANGULAR DUCT -- WIDTH X DEPTH
	OVAL DUCT -- WIDTH X DEPTH
	ROUND DUCT -- SIZE INDICATED DIAMETER
	FLEXIBLE DUCT
	RISE IN DIRECTION OF ARROW
	RECTANGULAR TO ROUND TRANSITION
	OVAL TO ROUND TRANSITION
	SQUARE ELBOW WITH TURNING VANES
	MANUAL VOLUME DAMPER
	FIRE DAMPER, SMOKE DAMPER, FIRE/SMOKE DAMPER
	ROUND DUCT -- UP, DOWN
	SUPPLY DUCT -- UP, DOWN
	RETURN DUCT -- UP, DOWN
	EXHAUST AIR -- UP, DOWN
	OUTSIDE AIR -- UP, DOWN
	FLEXIBLE CONNECTION
	MOTOR-OPERATED DAMPER
	STATIC PRESSURE SENSOR IN DUCT
	THERMOSTAT
	NIGHT THERMOSTAT
	HUMIDISTAT
	FLOW SWITCH
	UNIT SYMBOL, MIN. - MAX. PRIMARY AIR, SUPPLY AIR
	UNIT SYMBOL, MIN. - MAX. AIR FLOW (CFM)
	UNIT SYMBOL, MAX. AIR FLOW (CFM)
	UNIT SYMBOL, MAX. WATER FLOW (GPM)
	SOUND TRAP IN DUCT
	SUPPLY DIFFUSER -- TYPE, CFM (FOUR WAY)
	SUPPLY DIFFUSER -- TYPE, CFM (THREE WAY)
	SUPPLY DIFFUSER -- TYPE, CFM (TWO WAY CORNER)
	SUPPLY DIFFUSER -- TYPE, CFM (TWO WAY OPPOSITE)
	SUPPLY DIFFUSER -- TYPE, CFM (ONE WAY)
	RETURN INLET -- TYPE, CFM
	EXHAUST INLET -- TYPE, CFM
	ACCESS DOOR -- PLAN, SIDE VIEW
	EXISTING DUCTWORK TO BE REMOVED
	CONNECT TO EXISTING
	SECTION DESIGNATION
	DETAIL DESIGNATION
H.V.A.C. PIPING LEGEND	
	EXISTING PIPING TO BE REMOVED
	HIGH PRESSURE STEAM
	HIGH PRESSURE CONDENSATE RETURN
	MEDIUM PRESSURE STEAM
	MEDIUM PRESSURE CONDENSATE RETURN
	LOW PRESSURE STEAM
	LOW PRESSURE CONDENSATE RETURN
	STEAM VENT
	FIRE DAMPER
	SAFETY RELIEF VALVE VENT
	EMERGENCY GENERATOR EXHAUST
	EXPANSION TANK PIPE
	STEAM-TO-STEAM HUMIDIFIER DISCHARGE PIPING
	CONDENSER WATER SUPPLY
	CONDENSER WATER RETURN
	HOT WATER SUPPLY
	HOT WATER RETURN
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	CONDENSATE DRAINAGE
	FUEL OIL SUPPLY
	FUEL OIL RETURN
	VENT
H.V.A.C. PIPE FITTINGS	
	MANUAL AIR VENT -- PLAN, ELEVATION
	AUTOMATIC AIR VENT -- PLAN, ELEVATION
	CONCENTRIC REDUCER -- PLAN, ELEVATION
	ECCENTRIC REDUCER -- PLAN, ELEVATION
	BUTTERFLY VALVE
	BALL VALVE

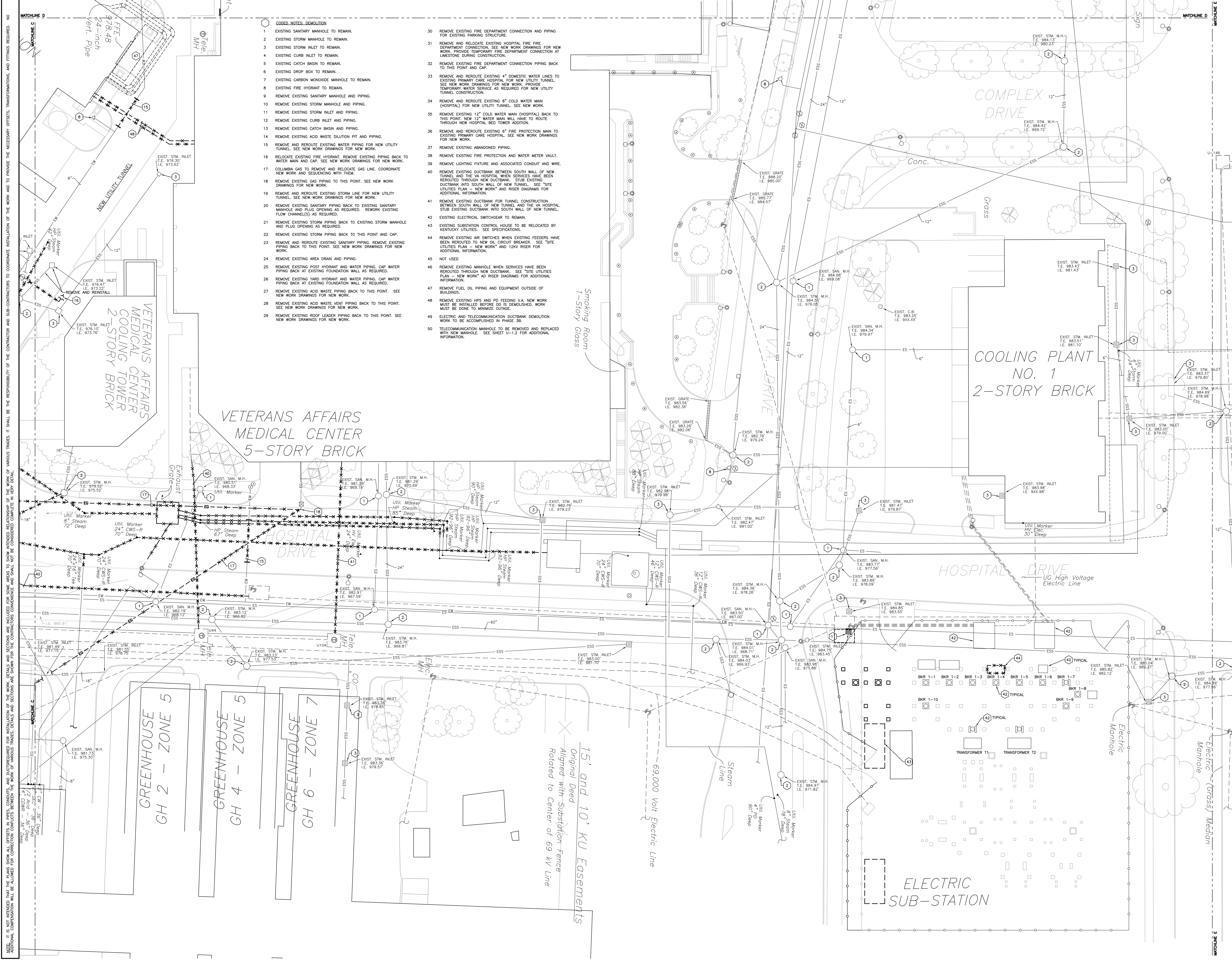
H.V.A.C. PIPE FITTINGS CONT.	
	TYPICAL VALVE -- SCREWED ENDS, FLANGED ENDS
	GATE VALVE -- PLAN, END VIEW
	GLOBE VALVE -- PLAN, END VIEW
	BUTTERFLY VALVE -- PLAN, END VIEW
	CHECK VALVE; SILENT CHECK VALVE
	3-WAY CONTROL VALVE; 2-WAY CONTROL VALVE
	COMB. BALANCING SHUT-OFF VALVE -- PLAN, END VIEW
	BASKET STRAINER
	3/4" DRAIN VALVE WITH HOSE CONNECTION
	SAFETY RELIEF VALVE
	Y-TYPE STRAINER WITH DRAIN VALVE
	FLEXIBLE CONNECTOR
	PRESSURE GAUGE
	TEMPERATURE GAUGE
	UNION
	FLANGED CONNECTION
	NEEDLE VALVE IN GAUGE LINE
	FINNED TUBE RADIATION - NUMBER INDICATES FEET OF ACTIVE ELEMENT REQUIRED
	FLOW INDICATOR
	FLOW METER - TURBINE
ABBREVIATIONS	
PLUMBING	
C.I.	CAST IRON
C.O.	CLEANOUT
CW	COLD WATER
FD	FLOOR DRAIN
HW	HOT WATER
O.H.D.	OPEN HUB DRAIN
O.R.	OPEN RECEPTACLE
P.V.C.	POLY-VINYL CHLORIDE
RD	ROOF DRAIN
SA	SHOCK ARRESTOR
VTR	VENT-THROUGH-ROOF
VCP	VITRIFIED CLAY PIPE
H.V.A.C.	
A.A.V.	AUTOMATIC AIR VENT
A.D.	ACCESS DOOR
A.F.	ABOVE FLOOR
B.E.	BELLMOUTH ENTRANCE
C.	COMMON
D.P.	DIFFUSER PLATE
E.A.	EXHAUST AIR
E.M.D.	END OF MAIN DRIP
F.D.	FIRE DAMPER
F.M.S.	FLOW MEASURING STATION
F.S.D.	FIRE/SMOKE DAMPER
I.B.	INLET BELL
I.S.	INLET SCREEN
M.A.V.	MANUAL AIR VENT
M.D.	MOTOR OPERATED DAMPER
M.E.	MOISTURE ELIMINATORS
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
O.A.	OUTSIDE AIR
P.A.	PRIMARY AIR
R.A.	RETURN AIR
S.A.	SUPPLY AIR
R.H.	RANGE HOOD
S.D.	SUCTION DIFFUSER
S.M.D.	SMOKE DAMPER
T.A.V.	THERMOSTATIC AIR VENT
T.C.P.	TEMPERATURE CONTROL PANEL
V.B.	VACUUM BREAKER
V.D.	VOLUME DAMPER
V.F.C.	VARIABLE FREQUENCY CONTROLLER

SITE UTILITIES	
SITE UTILITIES LEGEND	
MECHANICAL	
	EXISTING SANITARY SEWER
	NEW SANITARY SEWER
	NEW STORM SEWER
	FIRE PROTECTION LINE
	EXISTING COLD WATER SERVICE
	NEW COLD WATER SERVICE
	EXISTING HIGH PRESSURE GAS
	HIGH PRESSURE GAS
	EXISTING GAS
	NEW GAS
	CURB VALVE WITH VALVE BOX
	VALVE WITH VALVE BOX
	UTILITY MARKER
	THRUST BLOCK
	HYDRAULIC CALCULATION REFERENCE POINT
C.I.	CAST IRON
ELEV.	ELEVATION
EXIST.	EXISTING
F.H.	FIRE HYDRANT
G.C.O.	GRADE CLEANOUT
I.E.	INVERT ELEVATION
P.I.V.	POST INDICATOR VALVE
P.V.C.	POLYVINYL CHLORIDE PIPING
T.E.	TOP ELEVATION
ELECTRICAL	
	EXISTING OVERHEAD ELECTRIC
	OVERHEAD ELECTRIC
	OVERHEAD ELECTRIC/TELEPHONE
	EXISTING ELECTRIC UNDERGROUND
	BRANCH CIRCUIT UNDERGROUND
	UNDERGROUND PRIMARY SERVICE
	UNDERGROUND SECONDARY SERVICE
	EXISTING TELEPHONE UNDERGROUND
	UNDERGROUND TELEPHONE CONDUIT
	UNDERGROUND TELEVISION CONDUIT
	LIGHTING STANDARD
	EXISTING POST LIGHT
	POST LIGHT
NOTE: THE SYMBOLS LISTED ON THIS SHEET MAY NOT ALL BE USED ON THE CONTRACT DRAWINGS. HOWEVER, WHEREVER A SYMBOL IS USED, THE ITEM SHALL BE FURNISHED AND INSTALLED.	
SPECIAL SYMBOLS THIS PROJECT	
SITE UTILITIES	
	IRRIGATION SYSTEM PIPING
PLUMBING	
	SUMP PUMP DISCHARGE PIPING
	SOFT COLD WATER PIPING
	TRAP PRIMER PIPING
	DR27 ROOF DRAIN AND NUMBER (SEE ARCHITECTURAL DRAWINGS)
FIRE PROTECTION	
H.V.A.C.	
	DOUBLE WALL DUCT
	FAN PLENUM CASING--SOLID FACE SIDE
	FAN PLENUM CASING--PERFORATED FACE SIDE
ELECTRICAL	

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IN ASSOCIATION WITH

A.M. KINNEY



- CODED NOTES: DEMOLITION**
- EXISTING SANITARY MANHOLE TO REMAIN.
 - EXISTING STORM MANHOLE TO REMAIN.
 - EXISTING STORM INLET TO REMAIN.
 - EXISTING CURB INLET TO REMAIN.
 - EXISTING CATCH BASIN TO REMAIN.
 - EXISTING DROP BOX TO REMAIN.
 - REMOVE EXISTING CARBON MONOXIDE MANHOLE TO REMAIN.
 - EXISTING FIRE HYDRANT TO REMAIN.
 - REMOVE EXISTING SANITARY MANHOLE AND PIPING.
 - REMOVE EXISTING STORM MANHOLE AND PIPING.
 - REMOVE EXISTING STORM INLET AND PIPING.
 - REMOVE EXISTING CURB INLET AND PIPING.
 - REMOVE EXISTING CATCH BASIN AND PIPING.
 - REMOVE EXISTING ACID WASTE DILUTION PIT AND PIPING.
 - REMOVE AND REROUTE EXISTING WATER PIPING FOR NEW UTILITY TUNNEL. SEE NEW WORK DRAWINGS FOR NEW WORK.
 - RELOCATE EXISTING FIRE HYDRANT. REMOVE EXISTING PIPING BACK TO WATER MAIN AND CAP. SEE NEW WORK DRAWINGS FOR NEW WORK.
 - COLUMBIA GAS TO REMOVE AND RELOCATE GAS LINE. COORDINATE NEW WORK AND SEQUENCING WITH THEM.
 - REMOVE EXISTING GAS PIPING TO THIS POINT. SEE NEW WORK DRAWINGS FOR NEW WORK.
 - REMOVE AND REROUTE EXISTING STORM LINE FOR NEW UTILITY TUNNEL. SEE NEW WORK DRAWINGS FOR NEW WORK.
 - REMOVE EXISTING SANITARY PIPING BACK TO EXISTING SANITARY MANHOLE AND PLUG OPENING AS REQUIRED. REWORK EXISTING FLOW CHANNEL(S) AS REQUIRED.
 - REMOVE EXISTING STORM PIPING BACK TO EXISTING STORM MANHOLE AND PLUG OPENING AS REQUIRED.
 - REMOVE EXISTING STORM PIPING BACK TO THIS POINT AND CAP. SEE NEW WORK DRAWINGS FOR NEW WORK.
 - REMOVE AND REROUTE EXISTING SANITARY PIPING. REMOVE EXISTING PIPING BACK TO THIS POINT. SEE NEW WORK DRAWINGS FOR NEW WORK.
 - REMOVE EXISTING AREA DRAIN AND PIPING.
 - REMOVE EXISTING POST HYDRANT AND WATER PIPING. CAP WATER PIPING BACK AT EXISTING FOUNDATION WALL AS REQUIRED.
 - REMOVE EXISTING YARD HYDRANT AND WATER PIPING. CAP WATER PIPING BACK AT EXISTING FOUNDATION WALL AS REQUIRED.
 - REMOVE EXISTING ACID WASTE PIPING BACK TO THIS POINT. SEE NEW WORK DRAWINGS FOR NEW WORK.
 - REMOVE EXISTING ACID WASTE VENT PIPING BACK TO THIS POINT. SEE NEW WORK DRAWINGS FOR NEW WORK.
 - REMOVE EXISTING ROOF LEADER PIPING BACK TO THIS POINT. SEE NEW WORK DRAWINGS FOR NEW WORK.
 - REMOVE EXISTING FIRE DEPARTMENT CONNECTION AND PIPING FOR EXISTING PARKING STRUCTURE.
 - REMOVE AND RELOCATE EXISTING HOSPITAL FIRE DEPARTMENT CONNECTION. SEE NEW WORK DRAWINGS FOR NEW WORK. PROVIDE TEMPORARY FIRE DEPARTMENT CONNECTION AT LIMESTONE DURING CONSTRUCTION.
 - REMOVE EXISTING FIRE DEPARTMENT CONNECTION PIPING BACK TO THIS POINT AND CAP.
 - REMOVE AND REROUTE EXISTING 4" DOMESTIC WATER LINES TO EXISTING PRIMARY CARE HOSPITAL. FOR NEW UTILITY TUNNEL. SEE NEW WORK DRAWINGS FOR NEW WORK. PROVIDE TEMPORARY WATER SERVICE AS REQUIRED FOR NEW UTILITY TUNNEL CONSTRUCTION.
 - REMOVE AND REROUTE EXISTING 8" COLD WATER MAIN (HOSPITAL) FOR NEW UTILITY TUNNEL. SEE NEW WORK DRAWINGS FOR NEW WORK.
 - REMOVE EXISTING 12" COLD WATER MAIN (HOSPITAL) BACK TO THIS POINT. NEW 12" WATER MAIN WILL HAVE TO ROUTE THROUGH NEW HOSPITAL BED TOWER ADDITION.
 - REMOVE AND REROUTE EXISTING 6" FIRE PROTECTION MAIN TO EXISTING PRIMARY CARE HOSPITAL. SEE NEW WORK DRAWINGS FOR NEW WORK.
 - REMOVE EXISTING ABANDONED PIPING.
 - REMOVE EXISTING FIRE PROTECTION AND WATER METER VAULT.
 - REMOVE LIGHTING FIXTURE AND ASSOCIATED CONDUIT AND WIRE.
 - REMOVE EXISTING DUCTBANK BETWEEN SOUTH WALL OF NEW TUNNEL AND THE VA HOSPITAL WHEN SERVICES HAVE BEEN REROUTED THROUGH NEW DUCTBANK. STUB EXISTING DUCTBANK INTO SOUTH WALL OF NEW TUNNEL. SEE "SITE UTILITIES PLAN - NEW WORK" AND RISER DIAGRAMS FOR ADDITIONAL INFORMATION.
 - EXISTING ELECTRICAL SWITCHGEAR TO REMAIN.
 - EXISTING SUBSTATION CONTROL HOUSE TO BE RELOCATED BY KENTUCKY UTILITIES. SEE SPECIFICATIONS.
 - REMOVE EXISTING AIR SWITCHES WHEN EXISTING FEEDERS HAVE BEEN REROUTED TO NEW OIL CIRCUIT BREAKER. SEE "SITE UTILITIES PLAN - NEW WORK" AND "2KV RISER FOR ADDITIONAL INFORMATION.
 - NOT USED
 - REMOVE EXISTING MANHOLE WHEN SERVICES HAVE BEEN REROUTED THROUGH NEW DUCTBANK. SEE "SITE UTILITIES PLAN - NEW WORK" AND RISER DIAGRAMS FOR ADDITIONAL INFORMATION.
 - REMOVE FUEL OIL PIPING AND EQUIPMENT OUTSIDE OF BUILDINGS.
 - REMOVE EXISTING HPS AND PD FEEDING V.A. NEW WORK MUST BE INSTALLED BEFORE DO IS DEMOLISHED. WORK MUST BE DONE TO MINIMIZE OUTAGE.
 - ELECTRIC AND TELECOMMUNICATION DUCTBANK DEMOLITION WORK TO BE ACCOMPLISHED IN PHASE 3B.
 - TELECOMMUNICATION MANHOLE TO BE REMOVED AND REPLACED WITH NEW MANHOLE. SEE SHEET U-1.2 FOR ADDITIONAL INFORMATION.

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UK
Construct Patient
Care Facility
UK # 2239.3B
BP - 3B
INFRASTRUCTURE

RECORD DRAWINGS DATE 09/01/2011

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STAGGS & FISHER CONSULTING ENGINEERS, INC.

Drawing Issue:

No.	Date	Description
1	02-15-07	CONTRACT ISSUE
2	09-01-11	RECORD DRAWINGS

Drawing Title:

**SITE UTILITIES PLAN
HOSPITAL DRIVE
EAST - DEMOLITION**

GBBN Job No:
10247

SF File:
05300

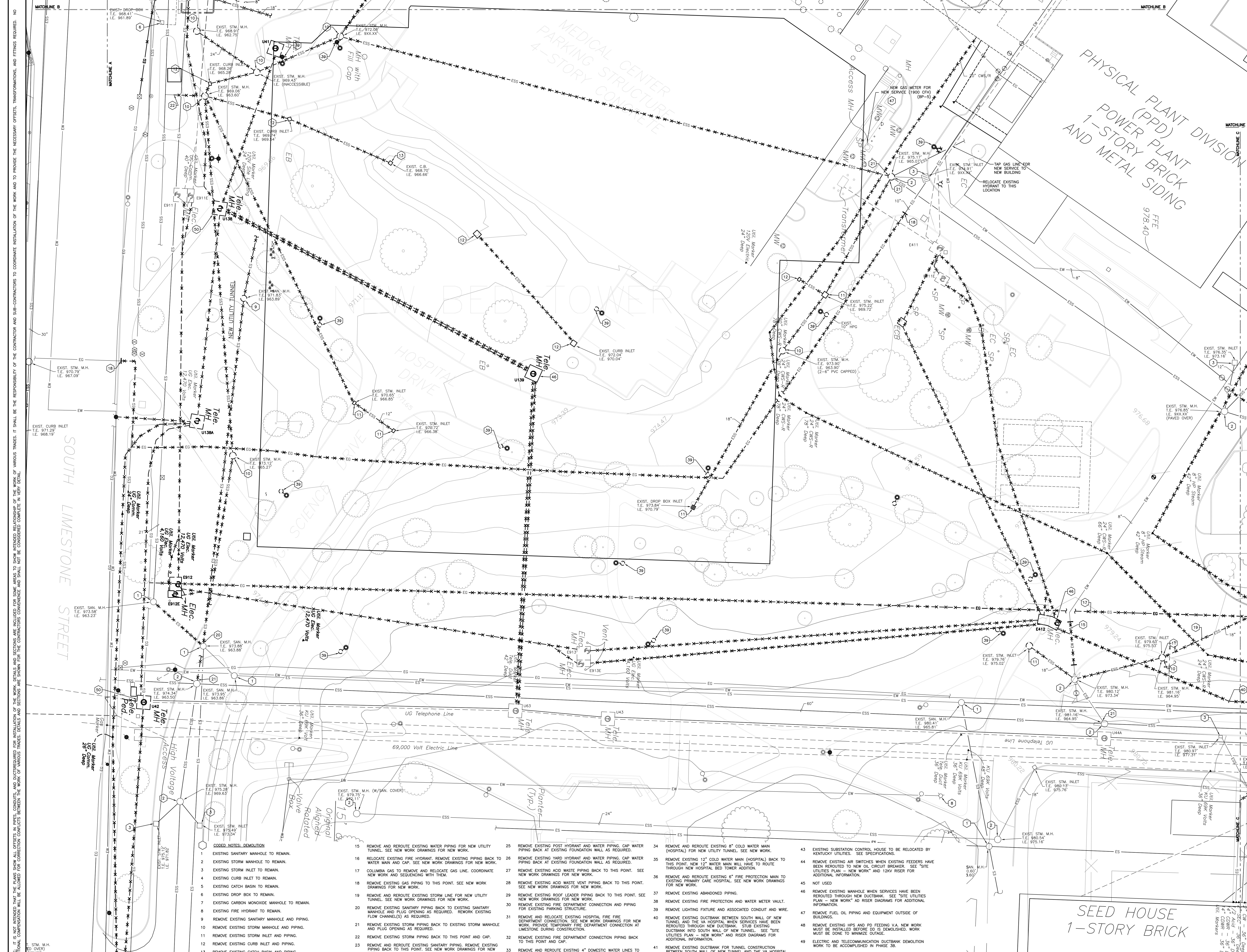
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1"=20'

Date:
02-15-07

Sheet:

U-0.1

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CONTRACT DOCUMENTS

No.	Date	Description
1	02-15-07	CONTRACT ISSUE
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Drawing Title:
**SITE UTILITIES PLAN
HOSPITAL DRIVE
WEST - DEMOLITION**
GBBN Job No:
10247
SF File:
05300
Scale:
1"=20'
Date:
02-15-07
Sheet:

- CODED NOTES: DEMOLITION**
- EXISTING SANITARY MANHOLE TO REMAIN.
 - EXISTING STORM MANHOLE TO REMAIN.
 - EXISTING STORM INLET TO REMAIN.
 - EXISTING CURB INLET TO REMAIN.
 - EXISTING CATCH BASIN TO REMAIN.
 - EXISTING DROP BOX TO REMAIN.
 - EXISTING CARBON MONOXIDE MANHOLE TO REMAIN.
 - EXISTING FIRE HYDRANT TO REMAIN.
 - REMOVE EXISTING SANITARY MANHOLE AND PIPING.
 - REMOVE EXISTING STORM MANHOLE AND PIPING.
 - REMOVE EXISTING STORM INLET AND PIPING.
 - REMOVE EXISTING CURB INLET AND PIPING.
 - REMOVE EXISTING CATCH BASIN AND PIPING.
 - REMOVE EXISTING ACID WASTE DILUTION PIT AND PIPING.

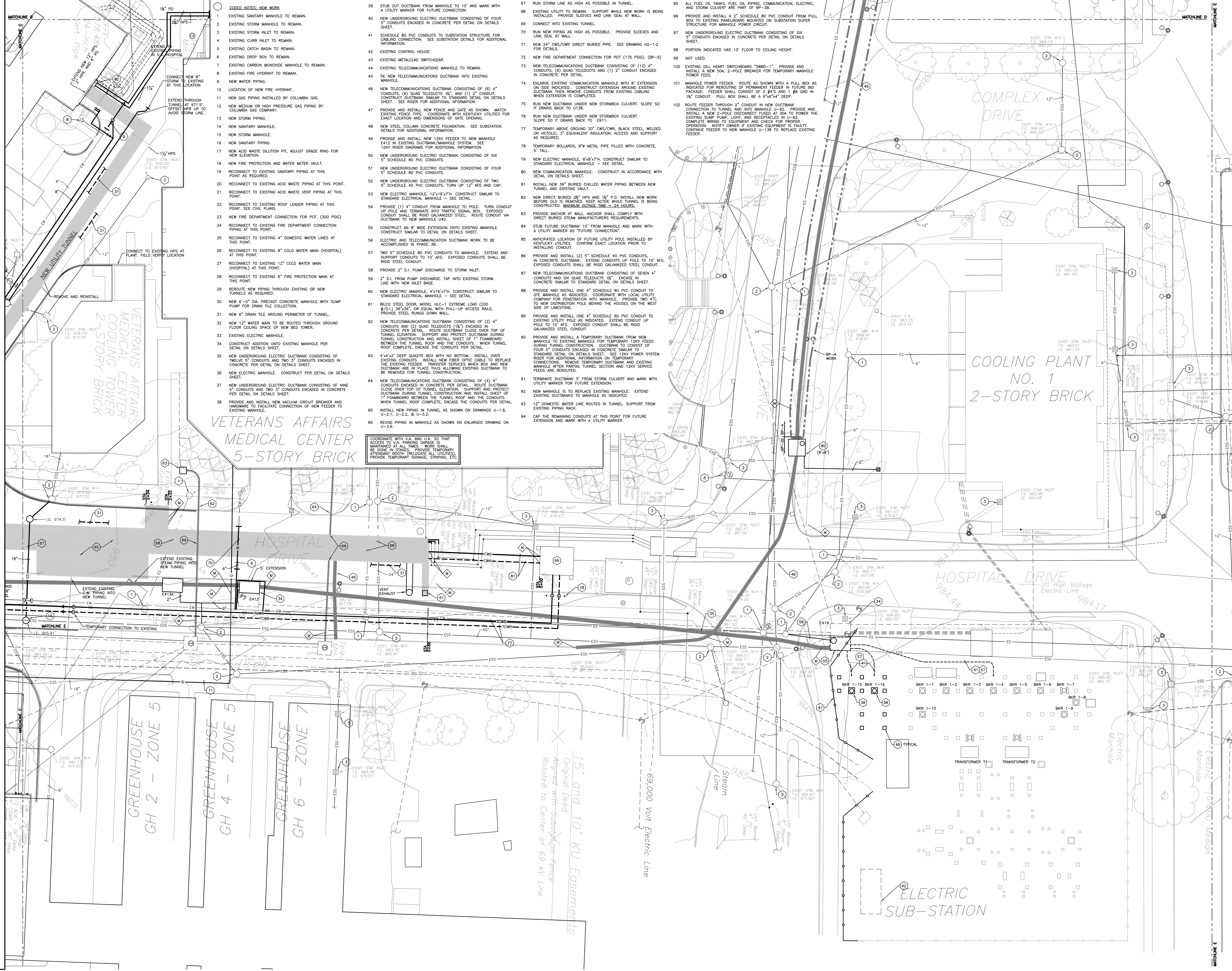
- REMOVE AND REROUTE EXISTING WATER PIPING FOR NEW UTILITY TUNNEL. SEE NEW WORK DRAWINGS FOR NEW WORK.
- RELOCATE EXISTING FIRE HYDRANT. REMOVE EXISTING PIPING BACK TO WATER MAIN AND CAP. SEE NEW WORK DRAWINGS FOR NEW WORK.
- COLUMBIA GAS TO REMOVE AND RELOCATE GAS LINE. COORDINATE NEW WORK AND SEQUENCING WITH THEM.
- REMOVE EXISTING GAS PIPING TO THIS POINT. SEE NEW WORK DRAWINGS FOR NEW WORK.
- REMOVE AND REROUTE EXISTING STORM LINE FOR NEW UTILITY TUNNEL. SEE NEW WORK DRAWINGS FOR NEW WORK.
- REMOVE EXISTING SANITARY PIPING BACK TO EXISTING SANITARY MANHOLE AND PLUG OPENING AS REQUIRED. REMOVE EXISTING FLOW CHANNEL(S) AS REQUIRED.
- REMOVE EXISTING STORM PIPING BACK TO EXISTING STORM MANHOLE AND PLUG OPENING AS REQUIRED.
- REMOVE EXISTING STORM PIPING BACK TO THIS POINT AND CAP.
- REMOVE EXISTING STORM PIPING BACK TO THIS POINT AND CAP.
- REMOVE AND REROUTE EXISTING HOSPITAL FIRE FIRE DEPARTMENT CONNECTION. SEE NEW WORK DRAWINGS FOR NEW WORK. PROVIDE TEMPORARY FIRE DEPARTMENT CONNECTION AT LIMESTONE DURING CONSTRUCTION.
- REMOVE EXISTING FIRE DEPARTMENT CONNECTION PIPING BACK TO THIS POINT AND CAP.
- REMOVE AND REROUTE EXISTING 4" DOMESTIC WATER LINES TO EXISTING PRIMARY CARE HOSPITAL FOR NEW UTILITY TUNNEL. SEE NEW WORK DRAWINGS FOR NEW WORK. PROVIDE TEMPORARY WATER SERVICE AS REQUIRED FOR NEW UTILITY TUNNEL CONSTRUCTION.

- REMOVE EXISTING POST HYDRANT AND WATER PIPING. CAP WATER PIPING BACK AT EXISTING FOUNDATION WALL AS REQUIRED.
- REMOVE EXISTING YARD HYDRANT AND WATER PIPING. CAP WATER PIPING BACK AT EXISTING FOUNDATION WALL AS REQUIRED.
- REMOVE EXISTING ACID WASTE PIPING BACK TO THIS POINT. SEE NEW WORK DRAWINGS FOR NEW WORK.
- REMOVE EXISTING ACID WASTE VENT PIPING BACK TO THIS POINT. SEE NEW WORK DRAWINGS FOR NEW WORK.
- REMOVE EXISTING ROOF LEADER PIPING BACK TO THIS POINT. SEE NEW WORK DRAWINGS FOR NEW WORK.
- REMOVE EXISTING FIRE DEPARTMENT CONNECTION AND PIPING FOR EXISTING PARKING STRUCTURE.
- REMOVE AND RELOCATE EXISTING HOSPITAL FIRE FIRE DEPARTMENT CONNECTION. SEE NEW WORK DRAWINGS FOR NEW WORK. PROVIDE TEMPORARY FIRE DEPARTMENT CONNECTION AT LIMESTONE DURING CONSTRUCTION.
- REMOVE EXISTING FIRE PROTECTION AND WATER METER VAULT.
- REMOVE LIGHTING FIXTURE AND ASSOCIATED CONDUIT AND WIRE.
- REMOVE EXISTING DUCTBANK BETWEEN SOUTH WALL OF NEW TUNNEL AND THE VA HOSPITAL WHEN SERVICES HAVE BEEN REROUTED THROUGH NEW DUCTBANK. STUB EXISTING DUCTBANK INTO SOUTH WALL OF NEW TUNNEL. SEE "SITE UTILITIES PLAN - NEW WORK" AND RISER DIAGRAMS FOR ADDITIONAL INFORMATION.
- REMOVE EXISTING HPS AND PD FEEDING V.A. NEW WORK MUST BE INSTALLED BEFORE DD IS DEMOLISHED. WORK MUST BE DONE TO MINIMIZE OUTAGE.
- ELECTRIC AND TELECOMMUNICATION DUCTBANK DEMOLITION WORK TO BE ACCOMPLISHED IN PHASE 3B.
- TELECOMMUNICATION MANHOLE TO BE REMOVED AND REPLACED WITH NEW MANHOLE. SEE SHEET U-1.2 FOR ADDITIONAL INFORMATION.

- EXISTING SUBSTATION CONTROL HOUSE TO BE RELOCATED BY KENTUCKY UTILITIES. SEE SPECIFICATIONS.
- REMOVE EXISTING AIR SWITCHES WHEN EXISTING FEEDERS HAVE BEEN REROUTED TO NEW OIL CIRCUIT BREAKER. SEE "SITE UTILITIES PLAN - NEW WORK" AND 12KV RISER FOR ADDITIONAL INFORMATION.
- NOT USED
- REMOVE EXISTING MANHOLE WHEN SERVICES HAVE BEEN REROUTED THROUGH NEW DUCTBANK. SEE "SITE UTILITIES PLAN - NEW WORK" AND RISER DIAGRAMS FOR ADDITIONAL INFORMATION.
- REMOVE FUEL OIL PIPING AND EQUIPMENT OUTSIDE OF BUILDINGS.
- REMOVE EXISTING HPS AND PD FEEDING V.A. NEW WORK MUST BE INSTALLED BEFORE DD IS DEMOLISHED. WORK MUST BE DONE TO MINIMIZE OUTAGE.
- ELECTRIC AND TELECOMMUNICATION DUCTBANK DEMOLITION WORK TO BE ACCOMPLISHED IN PHASE 3B.
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DATE: 02/15/07
BY: JAC
CHK: JAC
APP: JAC
SCALE: 1"=20'

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- CODED NOTES: NEW WORK**
- EXISTING SANITARY MANHOLE TO REMAIN.
 - EXISTING STORM MANHOLE TO REMAIN.
 - EXISTING STORM INLET TO REMAIN.
 - EXISTING CURB INLET TO REMAIN.
 - EXISTING CATCH BASIN TO REMAIN.
 - EXISTING DROP BOX TO REMAIN.
 - EXISTING CARBON MONOXIDE MANHOLE TO REMAIN.
 - EXISTING FIRE HYDRANT TO REMAIN.
 - NEW WATER PIPING.
 - LOCATION OF NEW FIRE HYDRANT.
 - NEW GAS PIPING INSTALLED BY COLUMBIA GAS.
 - NEW MEDIUM OR HIGH PRESSURE GAS PIPING BY COLUMBIA GAS COMPANY.
 - NEW STORM PIPING.
 - NEW SANITARY MANHOLE.
 - NEW STORM MANHOLE.
 - NEW SANITARY PIPING.
 - NEW ACID WASTE DILUTION PIT, ADJUST GRADE RING FOR NEW ELEVATION.
 - NEW FIRE PROTECTION AND WATER METER VAULT.
 - RECONNECT TO EXISTING SANITARY PIPING AT THIS POINT AS REQUIRED.
 - RECONNECT TO EXISTING ACID WASTE PIPING AT THIS POINT.
 - RECONNECT TO EXISTING ACID WASTE VENT PIPING AT THIS POINT.
 - RECONNECT TO EXISTING ROOF LEADER PIPING AT THIS POINT. SEE CIVIL PLANS.
 - NEW FIRE DEPARTMENT CONNECTION FOR PCF (300 PSIG)
 - RECONNECT TO EXISTING FIRE DEPARTMENT CONNECTION PIPING AT THIS POINT.
 - RECONNECT TO EXISTING 4" DOMESTIC WATER LINES AT THIS POINT.
 - RECONNECT TO EXISTING 6" COLD WATER MAIN (HOSPITAL) AT THIS POINT.
 - RECONNECT TO EXISTING 12" COLD WATER MAIN (HOSPITAL) AT THIS POINT.
 - RECONNECT TO EXISTING 2" FIRE PROTECTION MAIN AT THIS POINT.
 - RECONNECT TO EXISTING 2" D.I. PUMP DISCHARGE TO STORM INLET.
 - NEW 2" D.I. FROM PUMP DISCHARGE, TAP INTO EXISTING STORM LINE WITH NEW INLET BASE.
 - NEW ELECTRIC MANHOLE, 4x16x7'H. CONSTRUCT SIMILAR TO STANDARD ELECTRICAL MANHOLE - SEE DETAIL.
 - BILCO STEEL DOOR, MODEL HLC-1 EXTREME LOAD (200 #/S.I.) 36"x36" OR EQUAL WITH PULL-UP ACCESS RAILS. PROVIDE STEEL RUNGS DOWN WALL.
 - NEW TELECOMMUNICATIONS DUCTBANK CONSISTING OF (2) 4" CONDUITS AND (2) QUAD TELEDUCTS (1X1). CONSTRUCT PER DETAIL - ROUTE DUCTBANK CLOSE OVER TOP OF TUNNEL ELEVATION. SUPPORT AND PROTECT DUCTBANK DURING TUNNEL CONSTRUCTION AND INSTALL SHEET OF 1" FOAMBOARD BETWEEN THE TUNNEL ROOF AND THE CONDUITS. WHEN TUNNEL ROOF COMPLETE, ENCASE THE CONDUITS PER DETAIL.
 - 4"x4"x2" DEEP QUARTZITE BOX WITH NO BOTTOM. INSTALL OVER EXISTING CONDUITS. INSTALL NEW FIBER OPTIC CABLE TO REPLACE THE EXISTING FEEDER. TRANSFER SERVICES WHEN BOX AND NEW DUCTBANK ARE IN PLACE THIS ALLOWING EXISTING DUCTBANK TO BE REMOVED FOR TUNNEL CONSTRUCTION.
 - NEW TELECOMMUNICATIONS DUCTBANK CONSISTING OF (4) 4" CONDUITS ENCASED IN CONCRETE PER DETAIL - ROUTE DUCTBANK CLOSE OVER TOP OF TUNNEL ELEVATION. SUPPORT AND PROTECT DUCTBANK DURING TUNNEL CONSTRUCTION AND INSTALL SHEET OF 1" FOAMBOARD BETWEEN THE TUNNEL ROOF AND THE CONDUITS. WHEN TUNNEL ROOF COMPLETE, ENCASE THE CONDUITS PER DETAIL.
 - INSTALL NEW PIPING IN TUNNEL AS SHOWN ON DRAWINGS U-1.6, U-2.1, U-2.2, & U-3.2.
 - REVERSE PIPING IN MANHOLE AS SHOWN ON ENLARGED DRAWING ON U-3.6.
 - STUB OUT DUCTBANK FROM MANHOLE TO 10' AND MARK WITH A UTILITY MARKER FOR FUTURE CONNECTION.
 - NEW UNDERGROUND ELECTRIC DUCTBANK CONSISTING OF FOUR 5" CONDUITS ENCASED IN CONCRETE PER DETAIL ON DETAILS SHEET.
 - SCHEDULE 80 PVC CONDUITS TO SUBSTITUTE STRUCTURE FOR CABLING CONNECTION. SEE SUBSTATION DETAILS FOR ADDITIONAL INFORMATION.
 - EXISTING CONTROL HOUSE.
 - EXISTING METALCLAD SWITCHGEAR.
 - EXISTING TELECOMMUNICATIONS MANHOLE TO REMAIN.
 - EXISTING TELECOMMUNICATIONS DUCTBANK INTO EXISTING MANHOLE.
 - NEW UNDERGROUND ELECTRIC DUCTBANK CONSISTING OF (6) 4" CONDUITS, (6) QUAD TELEDUCTS 3/4", AND (1) 2" CONDUIT. CONSTRUCT DUCTBANK SIMILAR TO STANDARD DETAIL ON DETAILS SHEET. SEE RISER FOR ADDITIONAL INFORMATION.
 - PROVIDE AND INSTALL NEW FENCE AND GATE AS SHOWN. MATCH EXISTING FENCE TYPE, COORDINATE WITH KENTUCKY UTILITIES FOR EXACT LOCATION AND DIMENSIONS OF GATE OPENING.
 - NEW STEEL COLUMN CONCRETE FOUNDATION. SEE SUBSTATION DETAILS FOR ADDITIONAL INFORMATION.
 - PROVIDE AND INSTALL NEW 12KV FEEDER TO NEW MANHOLE E412 IN EXISTING DUCTBANK/MANHOLE SYSTEM. SEE 12KV RISER DIAGRAMS FOR ADDITIONAL INFORMATION.
 - NEW UNDERGROUND ELECTRIC DUCTBANK CONSISTING OF SIX 5" SCHEDULE 80 PVC CONDUITS.
 - NEW UNDERGROUND ELECTRIC DUCTBANK CONSISTING OF FOUR 5" SCHEDULE 80 PVC CONDUITS.
 - NEW UNDERGROUND ELECTRIC DUCTBANK CONSISTING OF TWO 5" SCHEDULE 40 PVC CONDUITS. TURN UP 12" AFG AND CAP.
 - NEW ELECTRIC MANHOLE, 12x16x7'H. CONSTRUCT SIMILAR TO STANDARD ELECTRICAL MANHOLE - SEE DETAIL.
 - PROVIDE (1) 4" CONDUIT FROM MANHOLE TO POLE. TURN CONDUIT UP POLE AND TERMINATE INTO TRAFFIC SIGNAL BOX. EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL. ROUTE CONDUIT VIA DUCTBANK TO MANHOLE L42.
 - CONSTRUCT AN 8' WIDE EXTENSION ONTO EXISTING MANHOLE. CONSTRUCT SIMILAR TO DETAIL ON DETAILS SHEET.
 - ELECTRIC AND TELECOMMUNICATION DUCTBANK WORK TO BE ACCOMPLISHED IN PHASE 3B.
 - NEW 5" SCHEDULE 80 PVC CONDUITS TO MANHOLE. EXTEND AND SUPPORT CONDUITS TO 10' AFG. EXPOSED CONDUITS SHALL BE RIGID GALVANIZED STEEL CONDUIT.
 - NEW 2" D.I. FROM PUMP DISCHARGE, TAP INTO EXISTING STORM LINE WITH NEW INLET BASE.
 - NEW ELECTRIC MANHOLE, 4x16x7'H. CONSTRUCT SIMILAR TO STANDARD ELECTRICAL MANHOLE - SEE DETAIL.
 - BILCO STEEL DOOR, MODEL HLC-1 EXTREME LOAD (200 #/S.I.) 36"x36" OR EQUAL WITH PULL-UP ACCESS RAILS. PROVIDE STEEL RUNGS DOWN WALL.
 - NEW TELECOMMUNICATIONS DUCTBANK CONSISTING OF (2) 4" CONDUITS AND (2) QUAD TELEDUCTS (1X1). CONSTRUCT PER DETAIL - ROUTE DUCTBANK CLOSE OVER TOP OF TUNNEL ELEVATION. SUPPORT AND PROTECT DUCTBANK DURING TUNNEL CONSTRUCTION AND INSTALL SHEET OF 1" FOAMBOARD BETWEEN THE TUNNEL ROOF AND THE CONDUITS. WHEN TUNNEL ROOF COMPLETE, ENCASE THE CONDUITS PER DETAIL.
 - 4"x4"x2" DEEP QUARTZITE BOX WITH NO BOTTOM. INSTALL OVER EXISTING CONDUITS. INSTALL NEW FIBER OPTIC CABLE TO REPLACE THE EXISTING FEEDER. TRANSFER SERVICES WHEN BOX AND NEW DUCTBANK ARE IN PLACE THIS ALLOWING EXISTING DUCTBANK TO BE REMOVED FOR TUNNEL CONSTRUCTION.
 - NEW TELECOMMUNICATIONS DUCTBANK CONSISTING OF (4) 4" CONDUITS ENCASED IN CONCRETE PER DETAIL - ROUTE DUCTBANK CLOSE OVER TOP OF TUNNEL ELEVATION. SUPPORT AND PROTECT DUCTBANK DURING TUNNEL CONSTRUCTION AND INSTALL SHEET OF 1" FOAMBOARD BETWEEN THE TUNNEL ROOF AND THE CONDUITS. WHEN TUNNEL ROOF COMPLETE, ENCASE THE CONDUITS PER DETAIL.
 - INSTALL NEW PIPING IN TUNNEL AS SHOWN ON DRAWINGS U-1.6, U-2.1, U-2.2, & U-3.2.
 - REVERSE PIPING IN MANHOLE AS SHOWN ON ENLARGED DRAWING ON U-3.6.
 - RUN STORM LINE AS HIGH AS POSSIBLE IN TUNNEL.
 - EXISTING UTILITY TO REMAIN. SUPPORT WHILE NEW WORK IS BEING INSTALLED. PROVIDE SLEEVES AND LINK SEAL AT WALL.
 - CONNECT INTO EXISTING TUNNEL.
 - RUN NEW PIPING AS HIGH AS POSSIBLE. PROVIDE SLEEVES AND LINK SEAL AT WALL.
 - NEW 24" CWS/CWR DIRECT BURIED PIPE. SEE DRAWING H2-1.2 FOR DETAILS.
 - NEW FIRE DEPARTMENT CONNECTION FOR PCF (175 PSIG). (BP-5)
 - NEW TELECOMMUNICATIONS DUCTBANK CONSISTING OF (12) 4" CONDUITS, (6) QUAD TELEDUCTS AND (1) 2" CONDUIT ENCASED IN CONCRETE PER DETAIL.
 - ENLARGE EXISTING TELECOMMUNICATION MANHOLE WITH 8' EXTENSION ON SIDE INDICATED. CONSTRUCT EXTENSION AROUND EXISTING DUCTBANK THEN REMOVE CONDUITS FROM EXISTING CABLING WHEN EXTENSION IS COMPLETE.
 - RUN NEW DUCTBANK UNDER NEW STORMBOX CULVERT. SLOPE SO IT DRAINS BACK TO U138.
 - RUN NEW DUCTBANK UNDER NEW STORMBOX CULVERT. SLOPE SO IT DRAINS BACK TO U138.
 - TEMPORARY ABOVE GROUND 20" CWS/CWR, BLACK STEEL, WELDED OR VICTROLUX, 3" EQUIVALENT INSULATION, ACCESS AND SUPPORT AS REQUIRED.
 - TEMPORARY BOLLARDS, 8" METAL PIPE FILLED WITH CONCRETE, 4' TALL.
 - NEW ELECTRIC MANHOLE, 8x8x7'H. CONSTRUCT SIMILAR TO STANDARD ELECTRICAL MANHOLE - SEE DETAIL.
 - NEW COMMUNICATION MANHOLE. CONSTRUCT IN ACCORDANCE WITH DETAIL ON DETAILS SHEET.
 - INSTALL NEW 36" BURIED CHILLED WATER PIPING BETWEEN NEW TUNNEL AND EXISTING VAULT.
 - NEW DIRECT BURIED 28" HPS AND 18" P.D. INSTALL NEW WORK BEFORE OLD IS REMOVED. KEEP ACTIVE WHILE TUNNEL IS BEING CONSTRUCTED. MAXIMUM OUTAGE TIME = 24 HOURS.
 - PROVIDE ANCHOR AT WALL. ANCHOR SHALL COMPLY WITH DIRECT BURIED STEEL MANUFACTURER'S REQUIREMENTS.
 - STUB FUTURE DUCTBANK 10' FROM MANHOLE AND MARK WITH A UTILITY MARKER AS "FUTURE CONNECTION".
 - ANTICIPATED LOCATION OF FUTURE UTILITY POLE INSTALLED BY KENTUCKY UTILITIES. CONFIRM EXACT LOCATION PRIOR TO INSTALLING CONDUIT.
 - PROVIDE AND INSTALL (2) 5" SCHEDULE 40 PVC CONDUITS, IN CONCRETE DUCTBANK. EXTEND CONDUITS UP POLE TO 10' AFG. EXPOSED CONDUITS SHALL BE RIGID GALVANIZED STEEL CONDUIT.
 - NEW TELECOMMUNICATIONS DUCTBANK CONSISTING OF SEVEN 4" CONDUITS AND SIX QUAD TELEDUCTS 1/4". ENCASE IN CONCRETE SIMILAR TO STANDARD DETAIL ON DETAILS SHEET.
 - PROVIDE AND INSTALL ONE 4" SCHEDULE 80 PVC CONDUIT TO GTE MANHOLE AS INDICATED. COORDINATE WITH LOCAL UTILITY COMPANY FOR PENETRATION INTO MANHOLE. PROVIDE TWO 4" CTS TO NEW DISTRIBUTION POLE BEHIND THE HOUSES ON THE WEST SIDE OF LIMESTONE.
 - PROVIDE AND INSTALL ONE 4" SCHEDULE 80 PVC CONDUIT TO EXISTING UTILITY POLE AS INDICATED. EXTEND CONDUIT UP POLE TO 10' AFG. EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL CONDUIT.
 - PROVIDE AND INSTALL A TEMPORARY DUCTBANK FROM NEW MANHOLE TO EXISTING MANHOLE FOR TEMPORARY 12KV FEEDS DURING TUNNEL CONSTRUCTION. DUCTBANK TO CONSIST OF FOUR 5" CONDUITS ENCASED IN CONCRETE SIMILAR TO STANDARD DETAIL ON DETAILS SHEET. SEE 12KV POWER SYSTEM RISER FOR ADDITIONAL INFORMATION ON TEMPORARY CONNECTIONS. REMOVE TEMPORARY DUCTBANK AND EXISTING MANHOLE AFTER PARTIAL TUNNEL SECTION AND 12KV SERVICE FEEDS ARE REROURED.
 - TERMINATE DUCTBANK 5' FROM STORM CULVERT AND MARK WITH UTILITY MARKER FOR FUTURE EXTENSION.
 - NEW MANHOLE IS TO REPLACE EXISTING MANHOLE. EXTEND EXISTING DUCTBANKS TO MANHOLE AS INDICATED.
 - 12" DOMESTIC WATER LINE ROUTED IN TUNNEL. SUPPORT FROM EXISTING PIPING RACK.
 - CAP THE REMAINING CONDUITS AT THIS POINT FOR FUTURE EXTENSION AND MARK WITH A UTILITY MARKER.

COORDINATE WITH V.A. AND U.K. SO THAT ACCESS TO PARKING SPACES SHALL BE MAINTAINED AT ALL TIMES. WORK SHALL BE DONE IN STAGES. PROVIDE TEMPORARY ATTENDANT BOOTH (RELOCATE ALL UTILITIES). PROVIDE TEMPORARY SIGNAGE, STRIPING, ETC.

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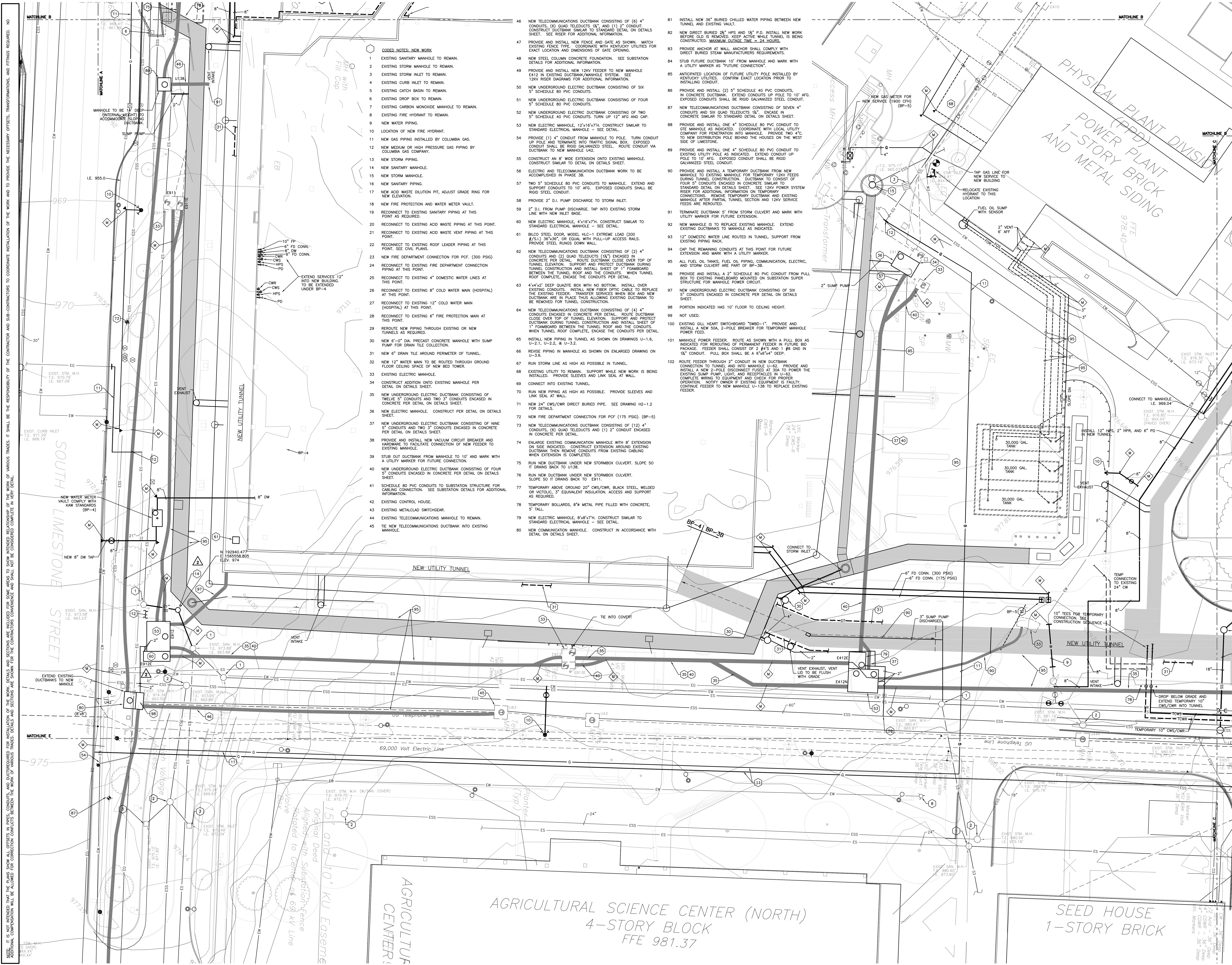
No.	Date	Description
1	02-15-07	CONTRACT ISSUE
2	05-31-07	COMM AND POWER CHANGES
3	06-05-07	STORM AND STEAM
4	09-01-11	RECORD DRAWINGS

Drawing Title:
SITE UTILITIES PLAN HOSPITAL DRIVE EAST - NEW WORK

GBBN Job No: 10247
 SF File: 05300
 Scale: 1"=20'
 Date: 02-15-07

SEAL: **ANDREW BRANSON** 14375
 PROFESSIONAL ENGINEER

U-1.1



NOTE: IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTBANKS FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIPS OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO LIABILITY FOR CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES SHALL BE CONSIDERED COMPLETE IN THIS DETAIL.

- CODED NOTES: NEW WORK**
- EXISTING SANITARY MANHOLE TO REMAIN.
 - EXISTING STORM MANHOLE TO REMAIN.
 - EXISTING STORM INLET TO REMAIN.
 - EXISTING CURB INLET TO REMAIN.
 - EXISTING CATCH BASIN TO REMAIN.
 - EXISTING DROP BOX TO REMAIN.
 - EXISTING CARBON MONOXIDE MANHOLE TO REMAIN.
 - EXISTING FIRE HYDRANT TO REMAIN.
 - NEW WATER PIPING.
 - NEW GAS PIPING INSTALLED BY COLUMBIA GAS.
 - NEW MEDIUM OR HIGH PRESSURE GAS PIPING BY COLUMBIA GAS COMPANY.
 - NEW STORM PIPING.
 - NEW SANITARY MANHOLE.
 - NEW STORM MANHOLE.
 - NEW SANITARY PIPING.
 - NEW ACID WASTE DILUTION PIT, ADJUST GRADE RISE FOR NEW ELEVATION.
 - NEW FIRE PROTECTION AND WATER METER VAULT.
 - RECONNECT TO EXISTING SANITARY PIPING AT THIS POINT AS REQUIRED.
 - RECONNECT TO EXISTING ACID WASTE PIPING AT THIS POINT.
 - RECONNECT TO EXISTING ACID WASTE VENT PIPING AT THIS POINT.
 - RECONNECT TO EXISTING ROOF LEADER PIPING AT THIS POINT. SEE CIVIL PLANS.
 - NEW FIRE DEPARTMENT CONNECTION FOR PCF. (300 PSIG)
 - RECONNECT TO EXISTING FIRE DEPARTMENT CONNECTION PIPING AT THIS POINT.
 - RECONNECT TO EXISTING 4" DOMESTIC WATER LINES AT THIS POINT.
 - RECONNECT TO EXISTING 8" COLD WATER MAIN (HOSPITAL) AT THIS POINT.
 - RECONNECT TO EXISTING 12" COLD WATER MAIN (HOSPITAL) AT THIS POINT.
 - RECONNECT TO EXISTING 6" FIRE PROTECTION MAIN AT THIS POINT.
 - REROUTE NEW PIPING THROUGH EXISTING OR NEW TUNNELS AS REQUIRED.
 - NEW 6" 0" DIA. PRECAST CONCRETE MANHOLE WITH SUMP PUMP FOR DRAIN TILE COLLECTION.
 - NEW 6" DRAIN TILE AROUND PERIMETER OF TUNNEL.
 - NEW 12" WATER MAIN TO BE ROUTED THROUGH GROUND FLOOR CEILING SPACE OF NEW BUILD.
 - EXISTING ELECTRIC MANHOLE.
 - CONSTRUCT ADDITION DUCTBANK PER DETAIL ON DETAILS SHEET.
 - NEW UNDERGROUND ELECTRIC DUCTBANK CONSISTING OF TWELVE 5" CONDUITS AND TWO 3" CONDUITS ENCASED IN CONCRETE PER DETAIL ON DETAILS SHEET.
 - NEW ELECTRIC MANHOLE. CONSTRUCT PER DETAIL ON DETAILS SHEET.
 - NEW UNDERGROUND ELECTRIC DUCTBANK CONSISTING OF NINE 5" CONDUITS AND TWO 3" CONDUITS ENCASED IN CONCRETE PER DETAIL ON DETAILS SHEET.
 - PROVIDE AND INSTALL NEW VACUUM CIRCUIT BREAKER AND HARDWARE TO FACILITATE CONNECTION OF NEW FEEDER TO EXISTING MANHOLE.
 - STUB OUT DUCTBANK FROM MANHOLE TO 10' AND MARK WITH A UTILITY MARKER FOR FUTURE CONNECTION.
 - NEW UNDERGROUND ELECTRIC DUCTBANK CONSISTING OF FOUR 5" CONDUITS ENCASED IN CONCRETE PER DETAIL ON DETAILS SHEET.
 - SCHEDULE 80 PVC CONDUITS TO SUBSTATION STRUCTURE FOR CABLING CONNECTION. SEE SUBSTATION DETAILS FOR ADDITIONAL INFORMATION.
 - EXISTING CONTROL HOUSE.
 - EXISTING METALCLAD SWITCHGEAR.
 - EXISTING TELECOMMUNICATIONS MANHOLE TO REMAIN.
 - THE NEW TELECOMMUNICATIONS DUCTBANK INTO EXISTING MANHOLE.
 - NEW TELECOMMUNICATIONS DUCTBANK CONSISTING OF (6) 4" CONDUITS, (6) QUAD TELEDUCTS 1/2" AND (3) 2" CONDUIT. CONSTRUCT DUCTBANK SIMILAR TO STANDARD DETAIL ON DETAILS SHEET. SEE RISER FOR ADDITIONAL INFORMATION.
 - PROVIDE AND INSTALL NEW FENCE AND GATE AS SHOWN. MATCH EXISTING FENCE TYPE. COORDINATE WITH KENTUCKY UTILITIES FOR EXACT LOCATION AND DIMENSIONS OF GATE OPENING.
 - NEW STEEL COLUMN CONCRETE FOUNDATION. SEE SUBSTATION DETAILS FOR ADDITIONAL INFORMATION.
 - PROVIDE AND INSTALL NEW 12KV FEEDER TO NEW MANHOLE. E412 IN EXISTING DUCTBANK/MANHOLE SYSTEM. SEE 12KV RISER DIAGRAMS FOR ADDITIONAL INFORMATION.
 - NEW UNDERGROUND ELECTRIC DUCTBANK CONSISTING OF SIX 5" SCHEDULE 80 PVC CONDUITS.
 - NEW UNDERGROUND ELECTRIC DUCTBANK CONSISTING OF FOUR 5" SCHEDULE 80 PVC CONDUITS.
 - NEW UNDERGROUND ELECTRIC DUCTBANK CONSISTING OF TWO 5" SCHEDULE 40 PVC CONDUITS. TURN UP 12" AFG AND CAP.
 - NEW ELECTRIC MANHOLE, 12"x16"x7". CONSTRUCT SIMILAR TO STANDARD ELECTRICAL MANHOLE - SEE DETAIL.
 - PROVIDE (1) 4" CONDUIT FROM MANHOLE TO POLE. TURN CONDUIT UP POLE AND TERMINATE INTO TRAFFIC SIGNAL BOX. EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL. ROUTE CONDUIT VIA DUCTBANK TO NEW MANHOLE U42.
 - CONSTRUCT AN 8' WIDE EXTENSION ONTO EXISTING MANHOLE. CONSTRUCT SIMILAR TO DETAIL ON DETAILS SHEET.
 - ELECTRIC AND TELECOMMUNICATION DUCTBANK WORK TO BE ACCOMPLISHED IN PHASE 3B.
 - TWO 5" SCHEDULE 80 PVC CONDUITS TO MANHOLE. EXTEND AND SUPPORT CONDUITS TO 10' AFG. EXPOSED CONDUITS SHALL BE RIGID STEEL CONDUIT.
 - PROVIDE 2" D.I. PUMP DISCHARGE TO STORM INLET.
 - 2" D.I. FROM PUMP DISCHARGE. TAP INTO EXISTING STORM LINE WITH NEW INLET BASE.
 - NEW ELECTRIC MANHOLE, 4"x16"x7". CONSTRUCT SIMILAR TO STANDARD ELECTRICAL MANHOLE - SEE DETAIL.
 - BILCO STEEL DOOR, MODEL HLC-1 EXTREME LOAD (200 #/S.I.) 36"x26", OR EQUAL WITH PULL-UP ACCESS RAILS. PROVIDE STEEL RUNGS DOWN WALL.
 - NEW TELECOMMUNICATIONS DUCTBANK CONSISTING OF (2) 4" CONDUITS AND (2) QUAD TELEDUCTS (1/2") ENCASED IN CONCRETE PER DETAIL. ROUTE DUCTBANK CLOSE OVER TOP OF TUNNEL ELEVATION. SUPPORT AND PROTECT DUCTBANK DURING TUNNEL CONSTRUCTION AND INSTALL SHEET OF 1" FOAMBOARD BETWEEN THE TUNNEL ROOF AND THE CONDUITS. WHEN TUNNEL ROOF COMPLETE, ENCASE THE CONDUITS PER DETAIL.
 - 4"x4"x2" DEEP QUARTZITE BOX WITH NO BOTTOM. INSTALL OVER EXISTING CONDUITS. INSTALL NEW FIBER OPTIC CABLE TO REPLACE THE EXISTING FEEDER. TRANSFER SERVICES WHEN BOX AND NEW DUCTBANK ARE IN PLACE THIS ALLOWING EXISTING DUCTBANK TO BE REMOVED FOR TUNNEL CONSTRUCTION.
 - NEW TELECOMMUNICATIONS DUCTBANK CONSISTING OF (4) 4" CONDUITS ENCASED IN CONCRETE PER DETAIL. ROUTE DUCTBANK ABOVE OVER TOP OF TUNNEL ELEVATION. SUPPORT AND PROTECT DUCTBANK DURING TUNNEL CONSTRUCTION AND INSTALL SHEET OF 1" FOAMBOARD BETWEEN THE TUNNEL ROOF AND THE CONDUITS. WHEN TUNNEL ROOF COMPLETE, ENCASE THE CONDUITS PER DETAIL.
 - INSTALL NEW PIPING IN TUNNEL AS SHOWN ON DRAWINGS U-1.6, U-2.1, U-2.2, U-2.3, & U-2.2.
 - REVISE PIPING IN MANHOLE AS SHOWN ON ENLARGED DRAWING ON U-3.6.
 - RUN STORM LINE AS HIGH AS POSSIBLE IN TUNNEL.
 - EXISTING UTILITY TO REMAIN. SUPPORT WHILE NEW WORK IS BEING INSTALLED. PROVIDE SLEEVES AND LINK SEAL AT WALL.
 - CONNECT INTO EXISTING TUNNEL.
 - RUN NEW PIPING AS HIGH AS POSSIBLE. PROVIDE SLEEVES AND LINK SEAL AT WALL.
 - NEW 24" CWS/CWR DIRECT BURIED PIPE. SEE DRAWING H2-1.2 FOR DETAILS.
 - NEW FIRE DEPARTMENT CONNECTION FOR PCF (175 PSIG). (BP-5)
 - NEW TELECOMMUNICATIONS DUCTBANK CONSISTING OF (12) 4" CONDUITS, (6) QUAD TELEDUCTS AND (1) 2" CONDUIT ENCASED IN CONCRETE PER DETAIL.
 - ENLARGE EXISTING COMMUNICATION MANHOLE WITH 8" EXTENSION ON SIDE INDICATED. CONSTRUCT EXTENSION AROUND EXISTING DUCTBANK THEN REMOVE CONDUITS FROM EXISTING CABLING WHEN EXTENSION IS COMPLETED.
 - RUN NEW DUCTBANK UNDER NEW STORMBOX CULVERT. SLOPE IS 2" TO 10' IT DRAINS BACK TO E411.
 - TEMPORARY ABOVE GROUND 20" CWS/CWR, BLACK STEEL, WELDED OR VICTROLIC, 3" EQUIVALENT INSULATION. ACCESS AND SUPPORT AS REQUIRED.
 - TEMPORARY BOLLARDS, 8" METAL PIPE FILLED WITH CONCRETE, 5' TALL.
 - NEW ELECTRIC MANHOLE, 8"x8"x7". CONSTRUCT SIMILAR TO STANDARD ELECTRICAL MANHOLE - SEE DETAIL.
 - NEW COMMUNICATION MANHOLE. CONSTRUCT IN ACCORDANCE WITH DETAIL ON DETAILS SHEET.
 - INSTALL NEW 36" BURIED CHILLED WATER PIPING BETWEEN NEW TUNNEL AND EXISTING VAULT.
 - NEW DIRECT BURIED 26" HPS AND 1/2" P.D. INSTALL NEW WORK BEFORE OLD IS REMOVED. KEEP ACTIVE WHILE TUNNEL IS BEING CONSTRUCTED. MAXIMUM DROUSE TIME = 24 HOURS.
 - PROVIDE ANCHOR AT WALL. ANCHOR SHALL COMPLY WITH DIRECT BURIED STEAM MANUFACTURERS REQUIREMENTS.
 - STUB FUTURE DUCTBANK 10' FROM MANHOLE AND MARK WITH A UTILITY MARKER AS "FUTURE CONNECTION".
 - ANTICIPATED LOCATION OF FUTURE UTILITY POLE INSTALLED BY KENTUCKY UTILITIES. CONFIRM EXACT LOCATION PRIOR TO INSTALLING CONDUIT.
 - PROVIDE AND INSTALL (2) 5" SCHEDULE 40 PVC CONDUITS, IN CONCRETE DUCTBANK. EXTEND CONDUITS UP POLE TO 10' AFG. EXPOSED CONDUITS SHALL BE RIGID GALVANIZED STEEL CONDUIT.
 - NEW TELECOMMUNICATIONS DUCTBANK CONSISTING OF SEVEN 4" CONDUITS AND SIX QUAD TELEDUCTS 1/2". ENCASE IN CONCRETE SIMILAR TO STANDARD DETAIL ON DETAILS SHEET.
 - PROVIDE AND INSTALL ONE 4" SCHEDULE 80 PVC CONDUIT TO SITE MANHOLE AS INDICATED. COORDINATE WITH LOCAL UTILITY COMPANY FOR PENETRATION INTO MANHOLE. PROVIDE TWO 4" TO NEW DISTRIBUTION POLE BETWEEN THE HOUSES ON THE WEST SIDE OF LIMESTONE.
 - PROVIDE AND INSTALL ONE 4" SCHEDULE 80 PVC CONDUIT TO EXISTING UTILITY POLE AS INDICATED. EXTEND CONDUIT UP POLE TO 10' AFG. EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL CONDUIT.
 - REMOVE AND INSTALL A TEMPORARY DUCTBANK FROM NEW MANHOLE TO EXISTING MANHOLE FOR TEMPORARY 12KV FEEDS DURING TUNNEL CONSTRUCTION. DUCTBANK TO CONSIST OF FOUR 4" CONDUITS ENCASED IN CONCRETE SIMILAR TO STANDARD DETAIL ON DETAILS SHEET. SEE 12KV POWER SYSTEM RISER FOR ADDITIONAL INFORMATION ON TEMPORARY CONNECTIONS. REMOVE TEMPORARY DUCTBANK AND EXISTING MANHOLE AFTER PARTIAL TUNNEL SECTION AND 12KV SERVICE FEEDS ARE REROUTED.
 - TERMINATE DUCTBANK 5' FROM STORM CULVERT AND MARK WITH UTILITY MARKER FOR FUTURE EXTENSION.
 - NEW MANHOLE IS TO REPLACE EXISTING MANHOLE. EXTEND EXISTING DUCTBANKS TO MANHOLE AS INDICATED.
 - 12" DOMESTIC WATER LINE ROUTED IN TUNNEL. SUPPORT FROM EXISTING PIPING RACK.
 - CAP THE REMAINING CONDUITS AT THIS POINT FOR FUTURE EXTENSION AND MARK WITH A UTILITY MARKER.
 - ALL FUEL OIL TANKS, FUEL OIL PIPING, COMMUNICATION, ELECTRIC, AND STORM CULVERT ARE PART OF BP-3B.
 - PROVIDE AND INSTALL A 2" SCHEDULE 80 PVC CONDUIT FROM PULL BOX TO EXISTING PANELBOARD MOUNTED ON SUBSTATION STRUCTURE FOR MANHOLE POWER CIRCUIT.
 - NEW UNDERGROUND ELECTRIC DUCTBANK CONSISTING OF SIX 5" CONDUITS ENCASED IN CONCRETE PER DETAIL ON DETAILS SHEET.
 - PORTION INDICATED HAS 10' FLOOR TO CEILING HEIGHT.
 - NOT USED.
 - EXISTING GILL HEART SWITCHBOARD "SWBD-1". PROVIDE AND INSTALL A NEW 30A, 2-POLE BREAKER FOR TEMPORARY MANHOLE POWER FEED.
 - MANHOLE POWER FEEDER. ROUTE AS SHOWN WITH A PULL BOX AS INDICATED FOR REROUTING OF PERMANENT FEEDER IN FUTURE BP PACKAGE. FEEDER SHALL CONSIST OF 2 #4'S AND 1 #8 GND IN 1/2" CONDUIT. PULL BOX SHALL BE A 6"x6"x4" DEEP.
 - ROUTE FEEDER THROUGH 2" CONDUIT IN NEW DUCTBANK CONNECTION TO TUNNEL AND INTO MANHOLE U-42. PROVIDE AND INSTALL A NEW 2-POLE DISCONNECT FUSED AT 30A TO POWER THE EXISTING SUMP PUMP LIGHT AND RECEPTACLES IN U-42. COMPLETE WIRING TO EQUIPMENT AND CHECK FOR PROPER OPERATION. NOTIFY OWNER IF EXISTING EQUIPMENT IS FAULTY. CONTINUE FEEDER TO NEW MANHOLE U-136 TO REPLACE EXISTING FEEDER.

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UK

Construct Patient Care Facility
UK # 2239.3B
BP - 3B
INFRASTRUCTURE

DATE 09/01/2011

RECORD DRAWINGS

These record drawings have been prepared, in part, on the basis of information compiled and furnished by others. The Engineer has not verified the accuracy and/or completeness of this information and incorporated as a result of erroneous information provided by others.

STAGGS & FISHER CONSULTING ENGINEERS, INC.

Drawing Issue:

No.	Date	Description
1	02-15-07	CONTRACT ISSUE
2	05-3-07	COMM AND POWER CHANGES
3	06-05-07	STORM AND STEAM
4	06-11-07	TUNNEL VENT RELOCATION
5	08-15-07	DRAIN TILE CHANGE
6	09-01-11	RECORD DRAWINGS

Drawing Title:

SITE UTILITIES PLAN HOSPITAL DRIVE WEST - NEW WORK

GBBN Job No: 10247

SF File: 05300

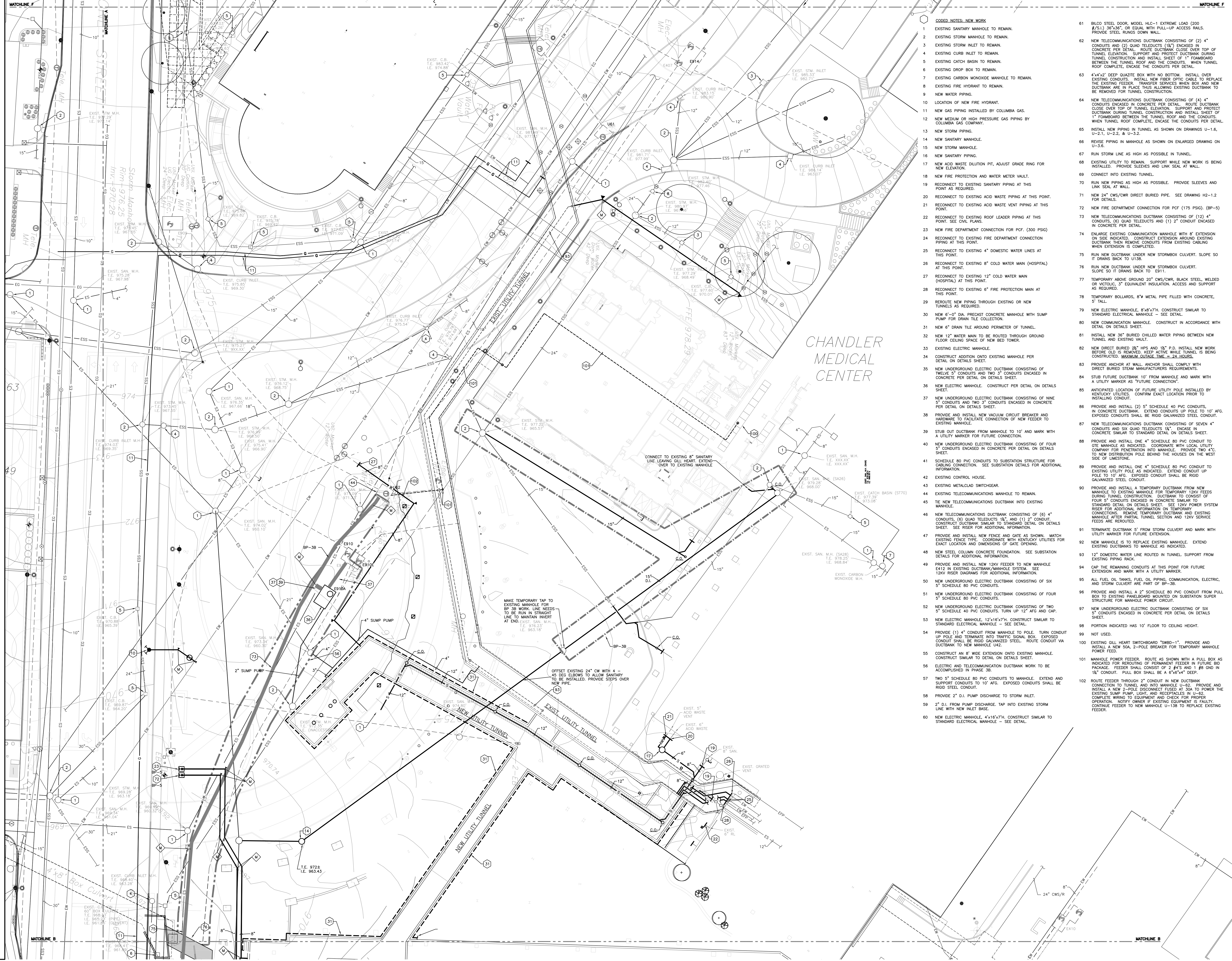
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Date: 02-15-07

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U-1.2

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DATE 09/01/2011
RECORD DRAWINGS

Drawing Title:
**SITE UTILITIES PLAN
PRIMARY CARE
NEW WORK**

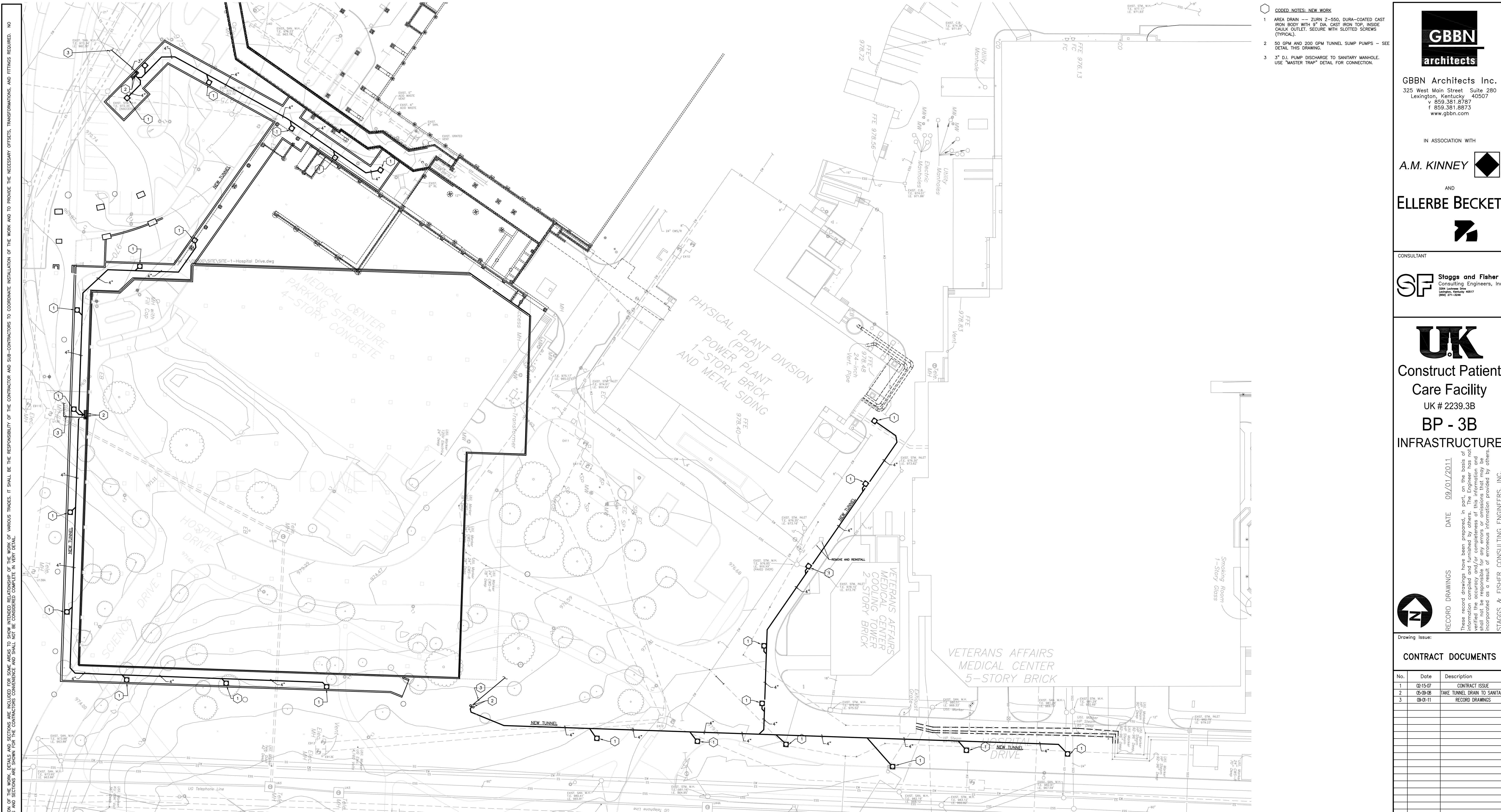
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10247
SF File:
05300
Scale:
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Date:
02-15-07

U-1.3R1

No.	Date	Description
1	02-15-07	CONTRACT ISSUE
2	09-01-11	RECORD DRAWINGS

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- CODED NOTES - NEW WORK**
- 1 AREA DRAIN -- ZURN Z-550, DURA-COATED CAST IRON BODY WITH 9" DIA. CAST IRON TOP, INSIDE CAULK OUTLET, SECURE WITH SLOTTED SCREWS (TYPICAL).
 - 2 50 GPM AND 200 GPM TUNNEL SUMP PUMPS -- SEE DETAIL THIS DRAWING.
 - 3 3" D.I. PUMP DISCHARGE TO SANITARY MANHOLE, USE "MASTER TRAP" DETAIL FOR CONNECTION.

NOTE: IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DISCHARGES FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIPS OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION OF CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTOR'S CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN THEMSELVES.

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AND

ELLERBE BECKET

CONSULTANT

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 224 LEXINGTON DR
 LEXINGTON, KENTUCKY 40507
 (606) 271-2244

UK

Construct Patient
 Care Facility
 UK # 2239.3B
 BP - 3B
 INFRASTRUCTURE

RECORD DRAWINGS DATE 09/01/2011

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CONTRACT DOCUMENTS

No.	Date	Description
1	02-15-07	CONTRACT ISSUE
2	05-09-08	TAKE TUNNEL DRAIN TO SANITARY
3	09-01-11	RECORD DRAWINGS

Drawing Title:

**SITE UTILITIES
 PLAN - TUNNEL
 PLUMBING - NEW WORK**

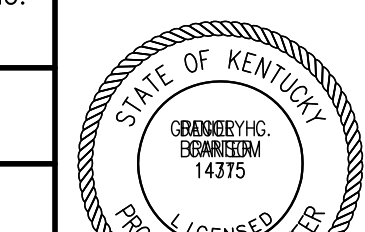
GBBN Job No:
10247

SF File:
05300

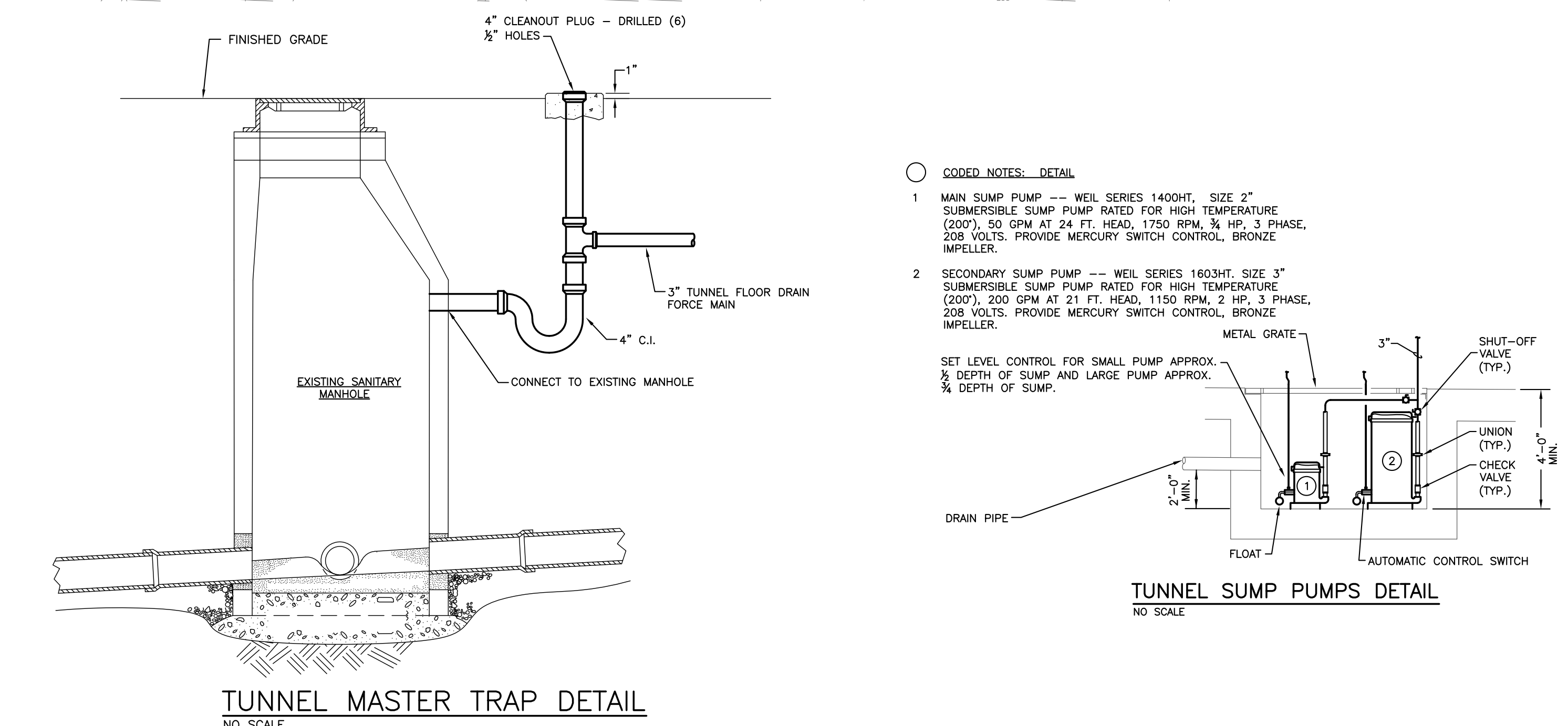
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Date:
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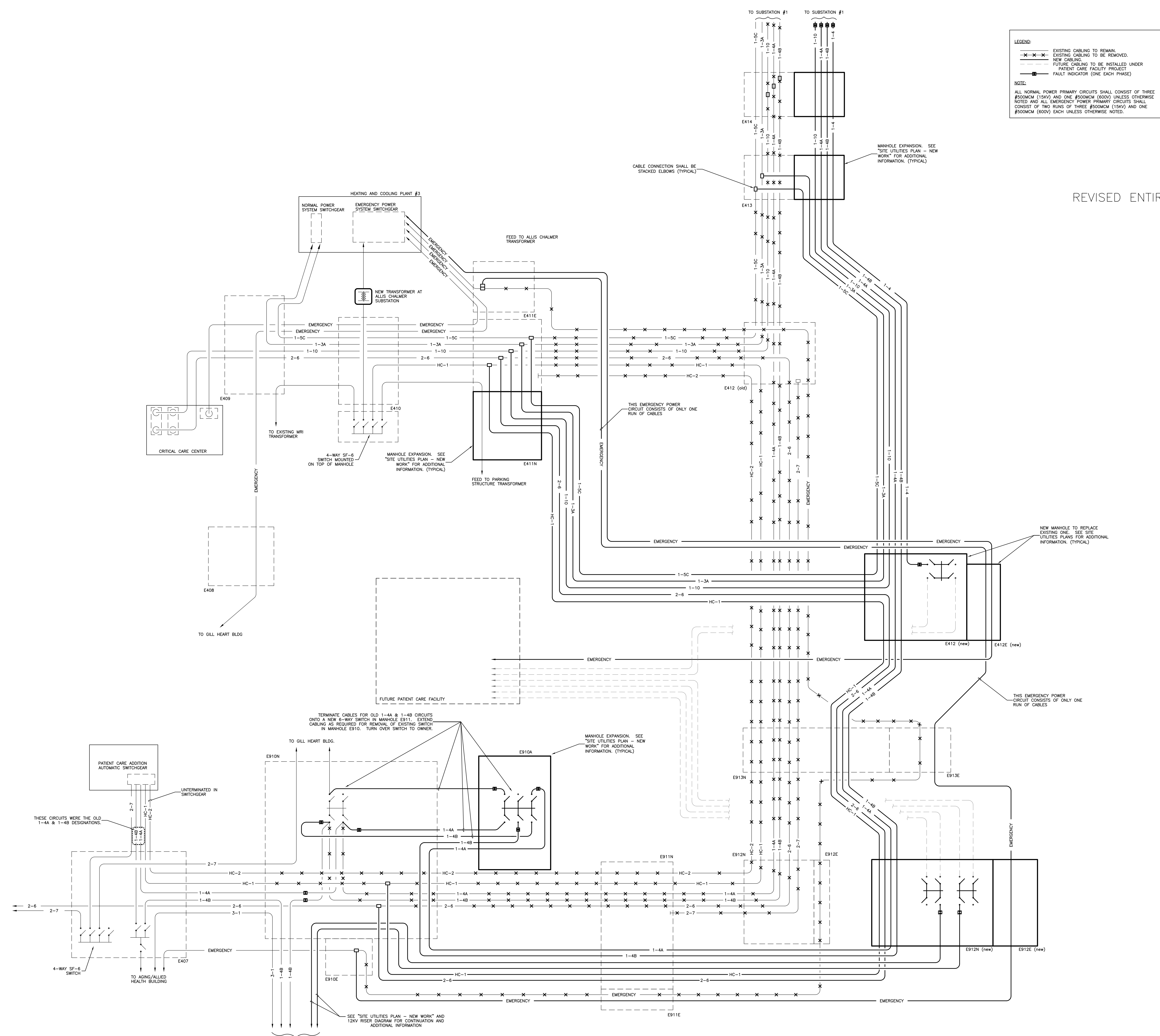


U-1.7R2



- CODED NOTES - DETAIL**
- 1 MAIN SUMP PUMP -- WEIL SERIES 1400HT, SIZE 2" SUBMERSIBLE SUMP PUMP RATED FOR HIGH TEMPERATURE (200°), 50 GPM AT 24 FT. HEAD, 1750 RPM, 3/4 HP, 3 PHASE, 208 VOLTS. PROVIDE MERCURY SWITCH CONTROL, BRONZE IMPELLER.
 - 2 SECONDARY SUMP PUMP -- WEIL SERIES 1603HT, SIZE 3" SUBMERSIBLE SUMP PUMP RATED FOR HIGH TEMPERATURE (200°), 200 GPM AT 21 FT. HEAD, 1150 RPM, 2 HP, 3 PHASE, 208 VOLTS. PROVIDE MERCURY SWITCH CONTROL, BRONZE IMPELLER.
- SET LEVEL CONTROL FOR SMALL PUMP APPROX. 3/4 DEPTH OF SUMP AND LARGE PUMP APPROX. 1/4 DEPTH OF SUMP.

53030518F08B DETAIL 4-ENG DETAILS 06/20/11 12:37 PM mshaha.11
 NOTE: IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DISTRIBUTION FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTOR'S CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN THEMSELVES.



LEGEND:
 -X-X-X- EXISTING CABLING TO REMAIN.
 - - - - EXISTING CABLING TO BE REMOVED.
 - - - - NEW CABLING.
 - - - - FUTURE CABLING TO BE INSTALLED UNDER PATIENT CARE FACILITY PROJECT.
 - - - - FAULT INDICATOR (ONE EACH PHASE)

NOTE:
 ALL NORMAL POWER PRIMARY CIRCUITS SHALL CONSIST OF THREE #500MCM (15KV) AND ONE #500MCM (600V) UNLESS OTHERWISE NOTED AND ALL EMERGENCY POWER PRIMARY CIRCUITS SHALL CONSIST OF TWO RUNS OF THREE #500MCM (15KV) AND ONE #500MCM (600V) EACH UNLESS OTHERWISE NOTED.

REVISED ENTIRE SHEET

12KV PRIMARY CABLING/MANHOLE SCHEMATIC DIAGRAM
 NO SCALE

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Drawing Issue:
CONTRACT DOCUMENTS

No.	Date	Description
1	02-15-07	CONTRACT ISSUE
2	03-27-07	ADDENDUM NO.5 ISSUE
3	09-01-11	RECORD DRAWINGS

Drawing Title:
SITE UTILITY DETAILS

GBBN Job No:
 10247

SF File:
 05300

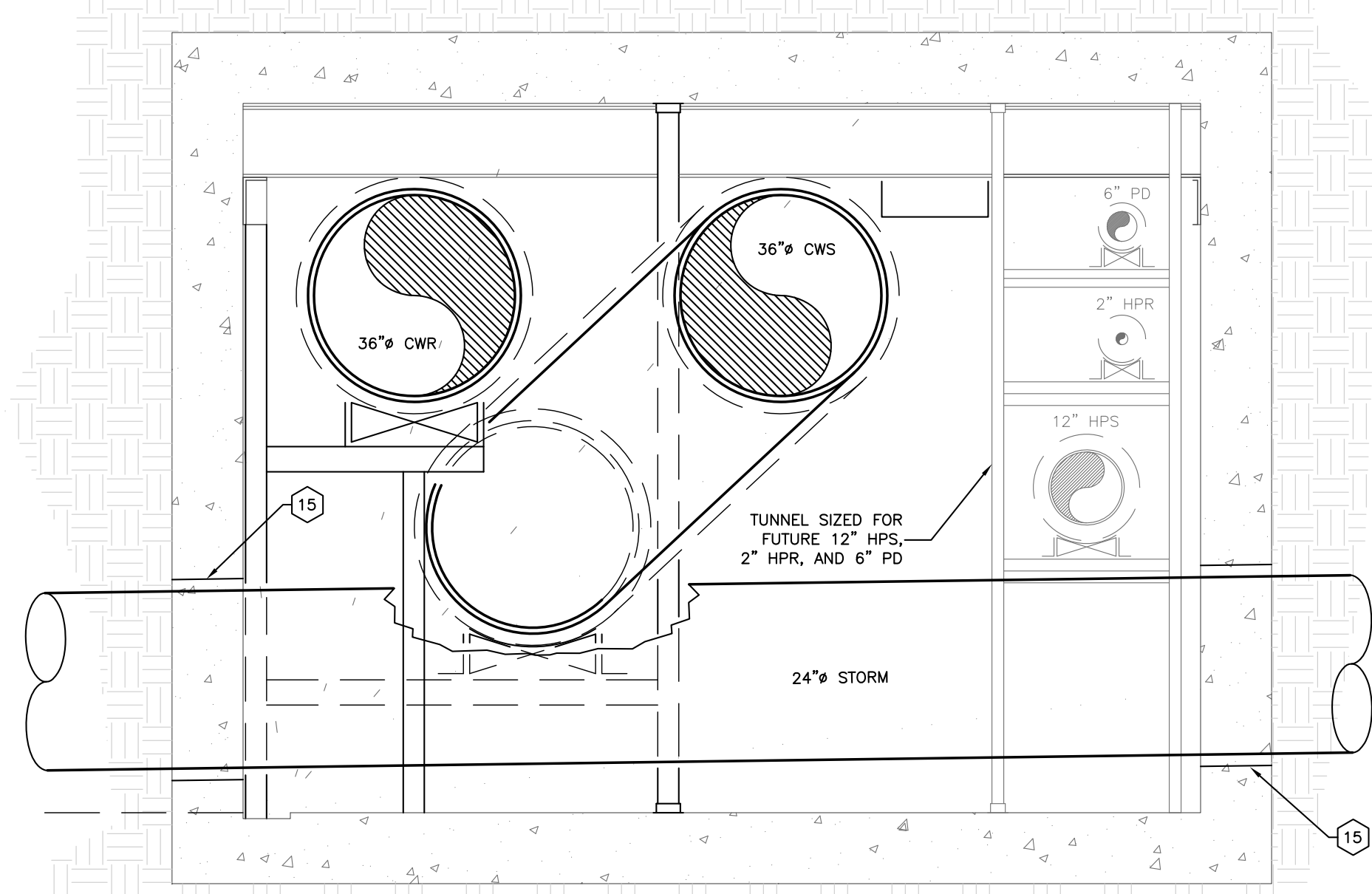
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Date:
 02-15-07

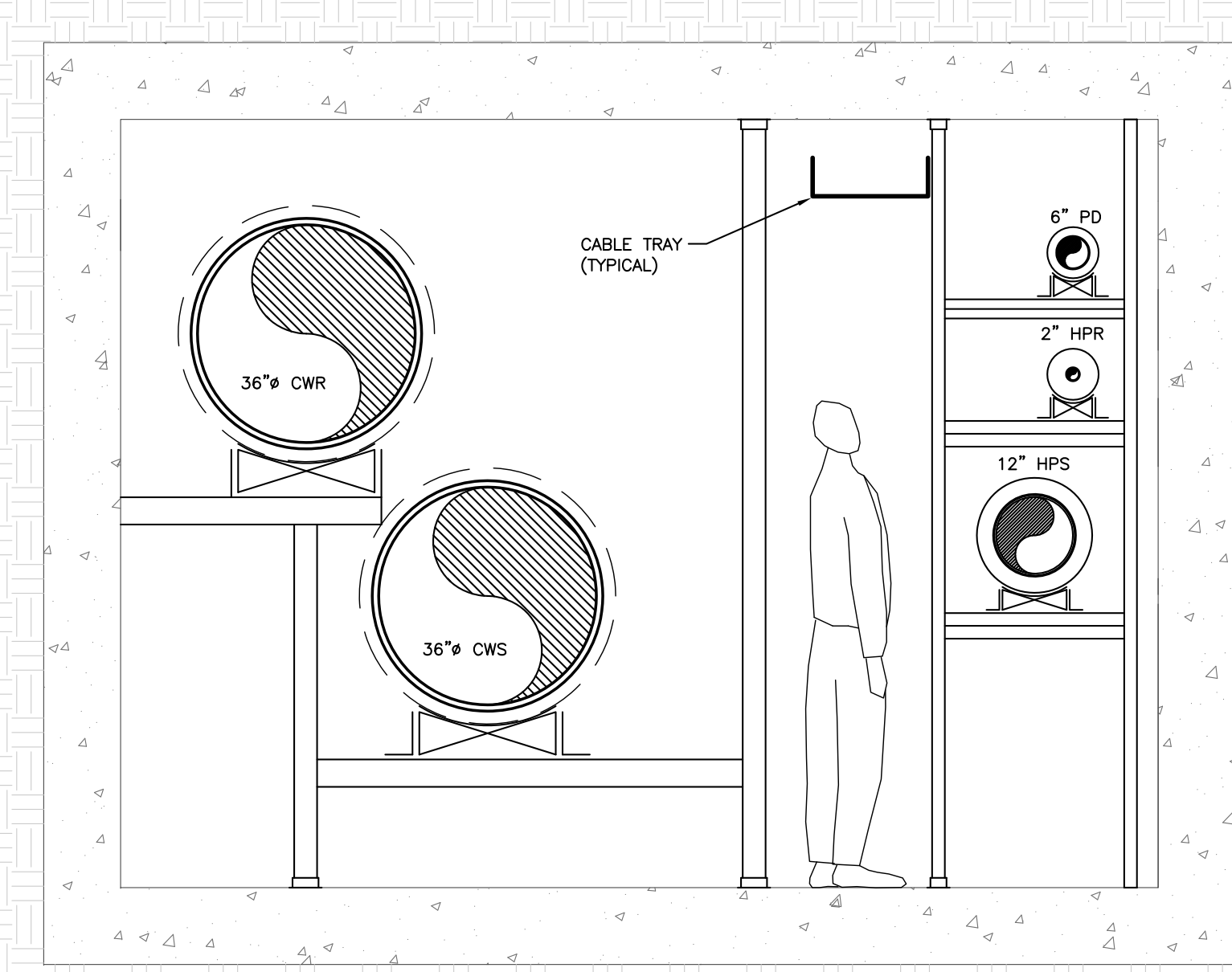
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U-2.4

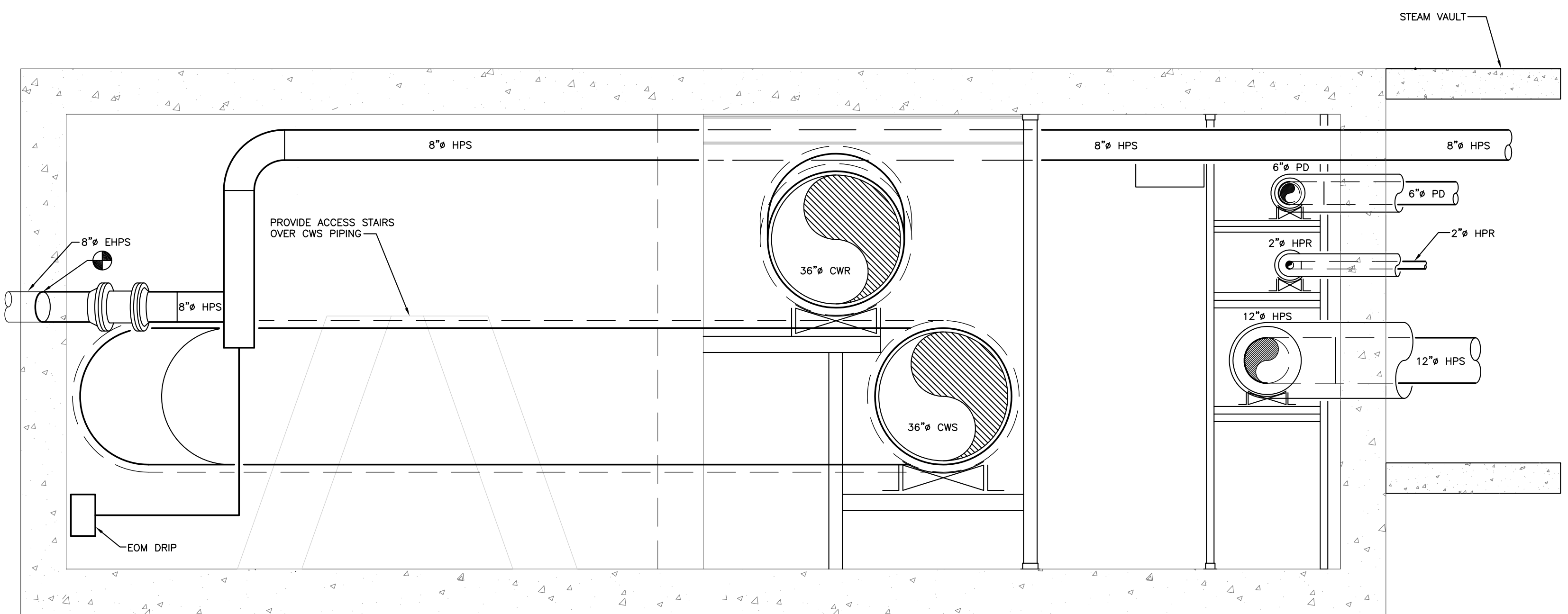
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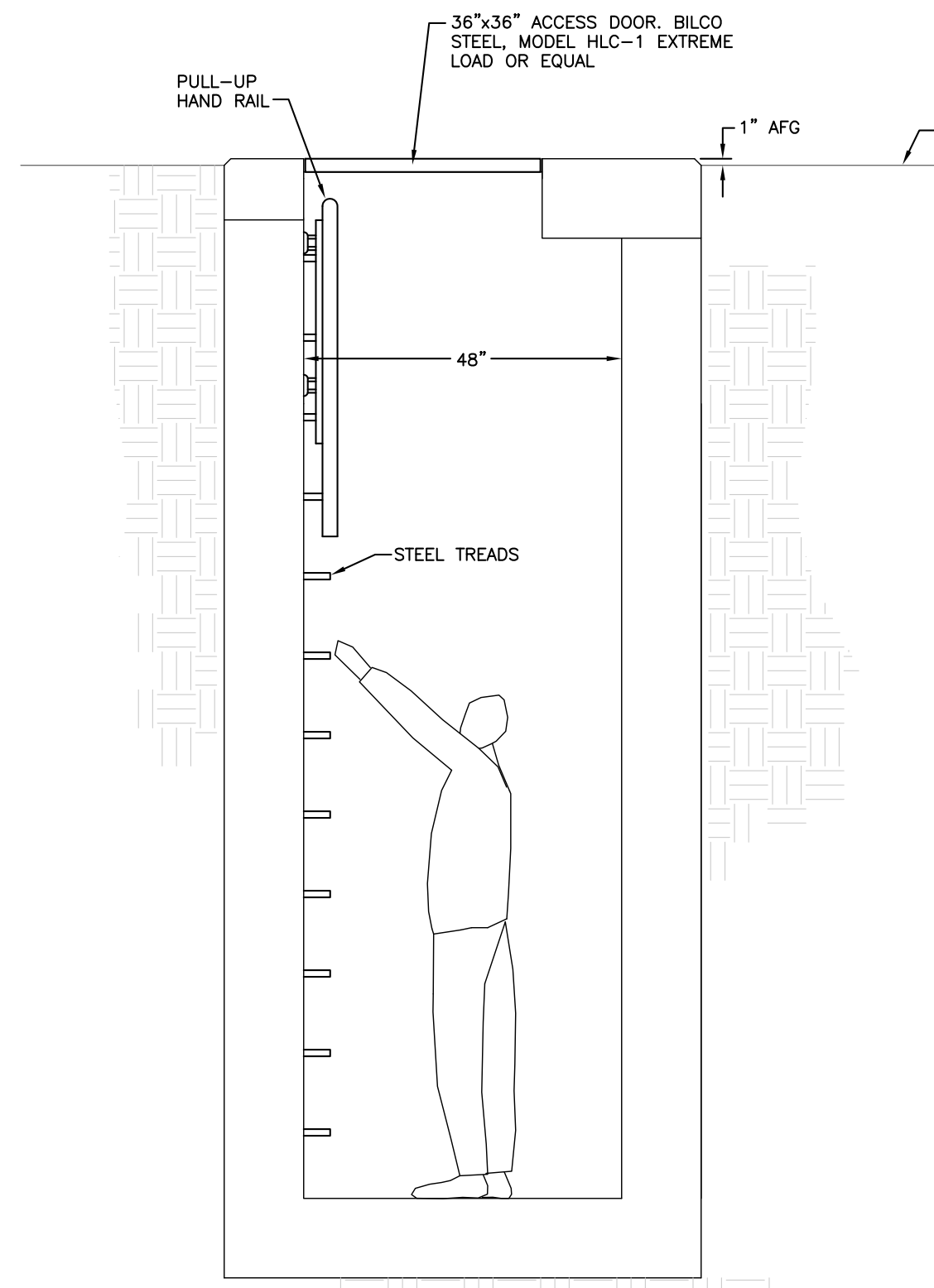
SECTION A
SCALE: 1/2" = 1' - 0"



SECTION C
SCALE: 1/2" = 1' - 0"



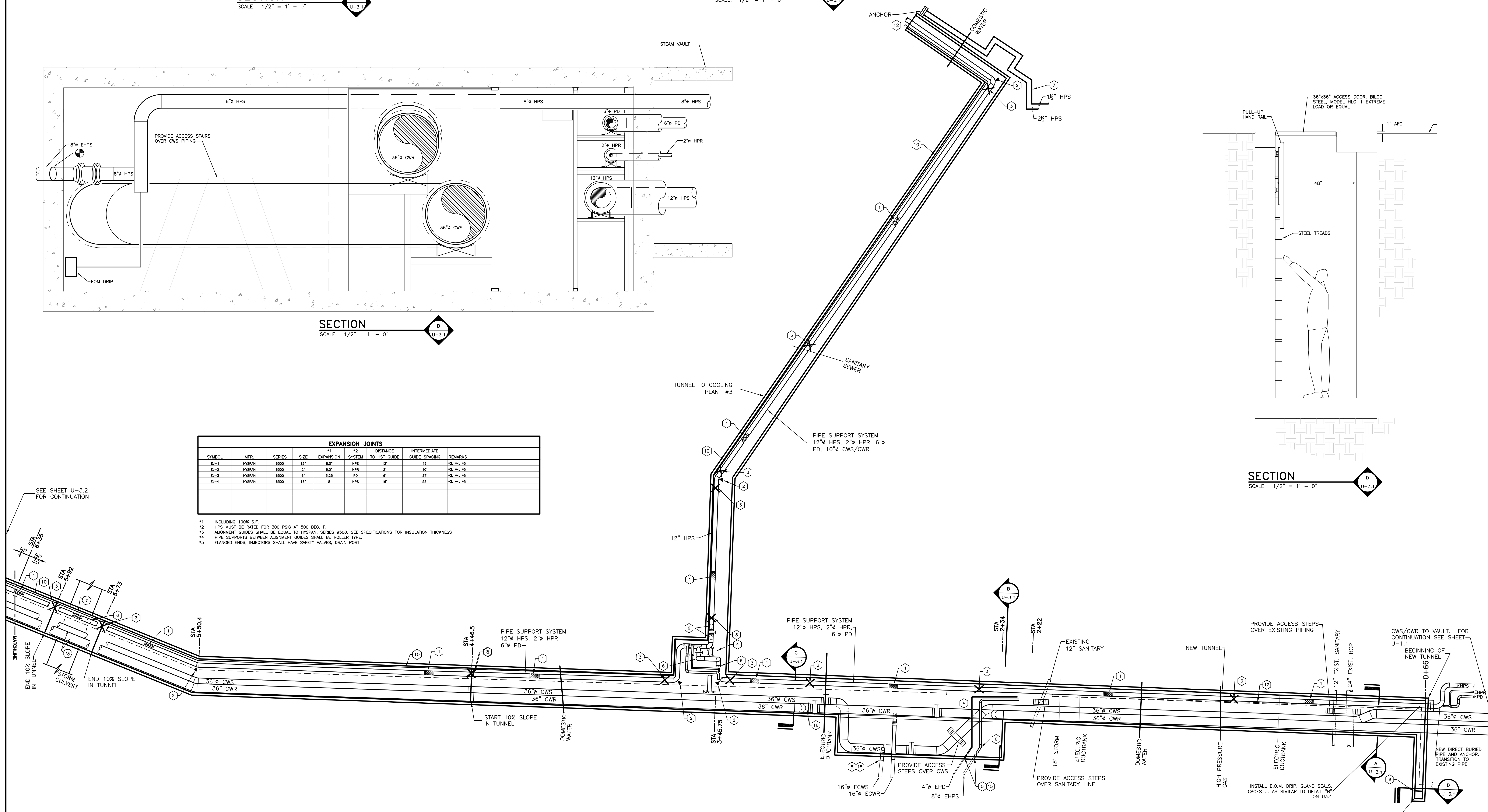
SECTION B
SCALE: 1/2" = 1' - 0"



SECTION D
SCALE: 1/2" = 1' - 0"

EXPANSION JOINTS								
SYMBOL	HPS	SERIES	SIZE	#1 EXPANSION SYSTEM	#2 TO 1ST GUIDE	DISTANCE TO 1ST GUIDE	INTERMEDIATE GUIDE SPACING	REMARKS
EJ-1	HOSPAN	8500	12"	8.0"	HPS	12"	48"	N/A, N/A, N/A
EJ-2	HOSPAN	8500	2"	6.0"	HPR	2"	10"	N/A, N/A, N/A
EJ-3	HOSPAN	8500	8"	3.08"	PD	8"	32"	N/A, N/A, N/A
EJ-4	HOSPAN	8500	18"	8"	HPS	18"	52"	N/A, N/A, N/A

- 1- INCLUDING 100K S.F.
- 2- HPS MUST BE RATED FOR 300 PSIG AT 500 DEG. F.
- 3- ALIGNMENT GUIDES SHALL BE EQUAL TO HOSPAN SERIES 8500. SEE SPECIFICATIONS FOR INSULATION THICKNESS
- 4- PIPE SUPPORTS BETWEEN ALIGNMENT GUIDES SHALL BE ROLLER TYPE.
- 5- FLANGED ENDS, INJECTORS SHALL HAVE SAFETY VALVES, DRAIN PORT.



TUNNEL DETAIL - BED TOWER
SCALE: 1/16" = 1' - 0"

- CODED NOTES:**
- PROVIDE EXPANSION JOINT FOR 12" HPS (EJ-1), 2" HPR (EJ-2), AND 6" PD (EJ-3).
 - SEE STRUCTURAL PLANS FOR CHANGE OF DIRECTION ANCHOR DETAILS. THIS ANCHOR CONSIST OF TWO SEPARATE ANCHORS (ONE ON EACH LEG).
 - INTERMEDIATE ANCHOR. SEE STRUCTURAL PLANS FOR DETAILS.
 - MAINTAIN WALKWAY UNDER PIPE - 6"4" TO BOTTOM OF PIPE.
 - CONNECT TO EXISTING PIPING AT THIS LOCATION.
 - PROVIDE E.O.M. DRIP FOR HPS - CONNECT DISCHARGE TO HPR IN TUNNEL. SEE DETAIL.
 - 28" HPS TO V.A. - SEE DETAIL ON H2-1.3 FOR CONTINUATION.
 - 28" HPS TO V.A. - SEE DETAIL ON H2-1.3 FOR CONTINUATION.
 - EGRESS ACCESS DOOR AND LADDER UP.
 - 3" O.D. AND 1" O.D. COPPER LINES.
 - SEE MEDICAL GAS PLANS FOR CONTINUATION.
 - SEE H2-1.1 FOR CONTINUATION.
 - TRANSITION SIZE AFTER BUILDING TAP.
 - PROVIDE 3 VALVE TEE ARRANGEMENT FOR 16" HPS, 8" PD AND 2" HPR.
 - SEAL WATER TIGHT AT WALL WITH LINK SEAL.
 - PROVIDE 2" DRAIN AT BOTTOM OF PIPE AT THIS LOCATION.
 - PROVIDE CABLE TRAY SUPPORT FROM PIPE STAND. SEE TUNNEL ELECTRICAL PLAN FOR CABLE TRAY SIZE.
 - PROVIDE COOL-DOWN BYPASS AT THIS LOCATION - SEE DETAIL.
 - THIS PIPING TO BE HUNG ON CLEVIS HANGERS.
 - COLD SPRING ELBOW.
 - SEE STRUCTURAL PLANS FOR CHANGE OF DIRECTION ANCHOR DETAILS. THIS ANCHOR CONSIST OF ONE ANCHOR.
 - RELOCATE THE EXISTING EXPANSION JOINTS TO THIS LOCATION.



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Construct Patient Care Facility
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BP - 3B
INFRASTRUCTURE

RECORD DRAWINGS DATE 09/01/2011
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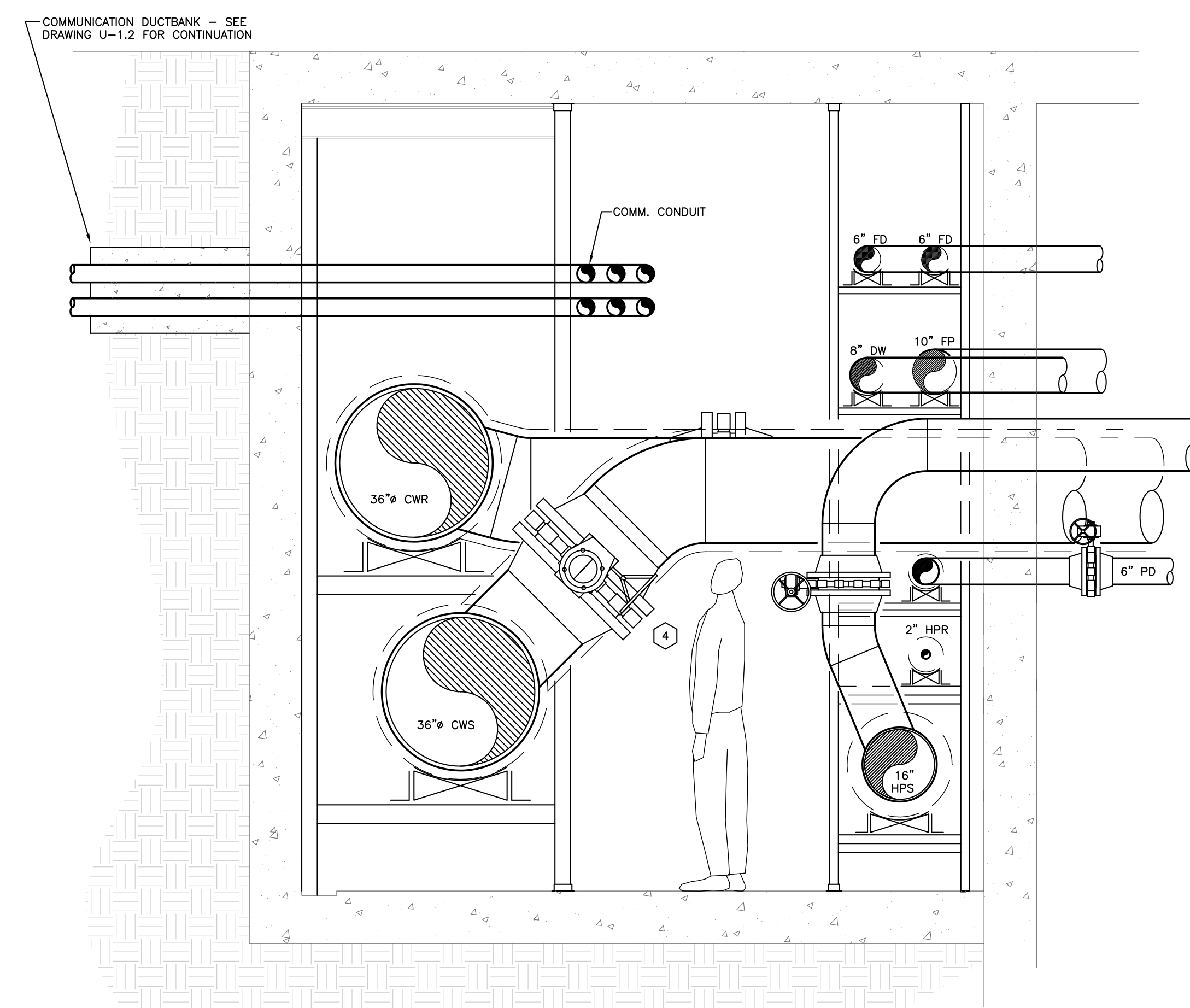
CONTRACT DOCUMENTS

No.	Date	Description
1	02-15-07	CONTRACT ISSUE
2	05-15-07	TUNNEL CHANGE
3	12-07-07	MOVE EXPANSION JOINT
4	08-08-11	RECORD DRAWINGS

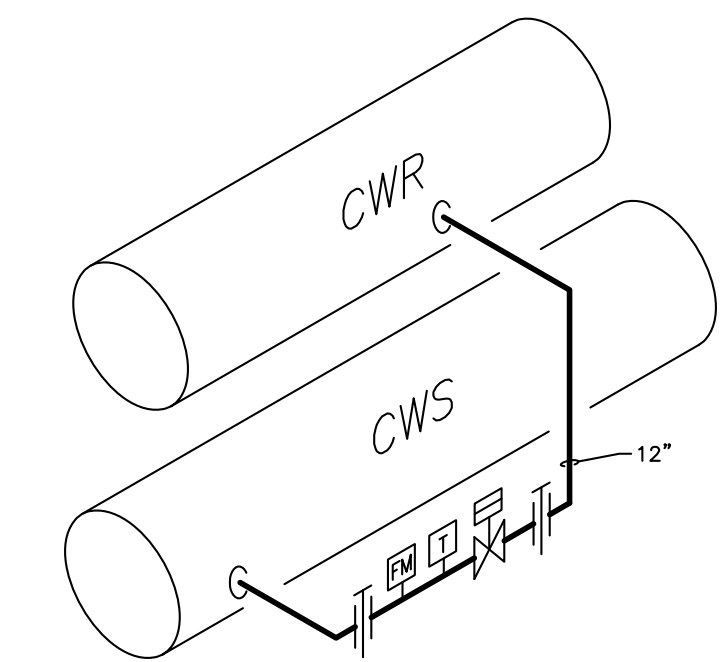
SITE UTILITIES PLAN HOSPITAL DRIVE NEW WORK ENLARGED TUNNEL

GBBN Job No: 10247
SF File: 05300
Scale:
Date: 02-15-07
Sheet:

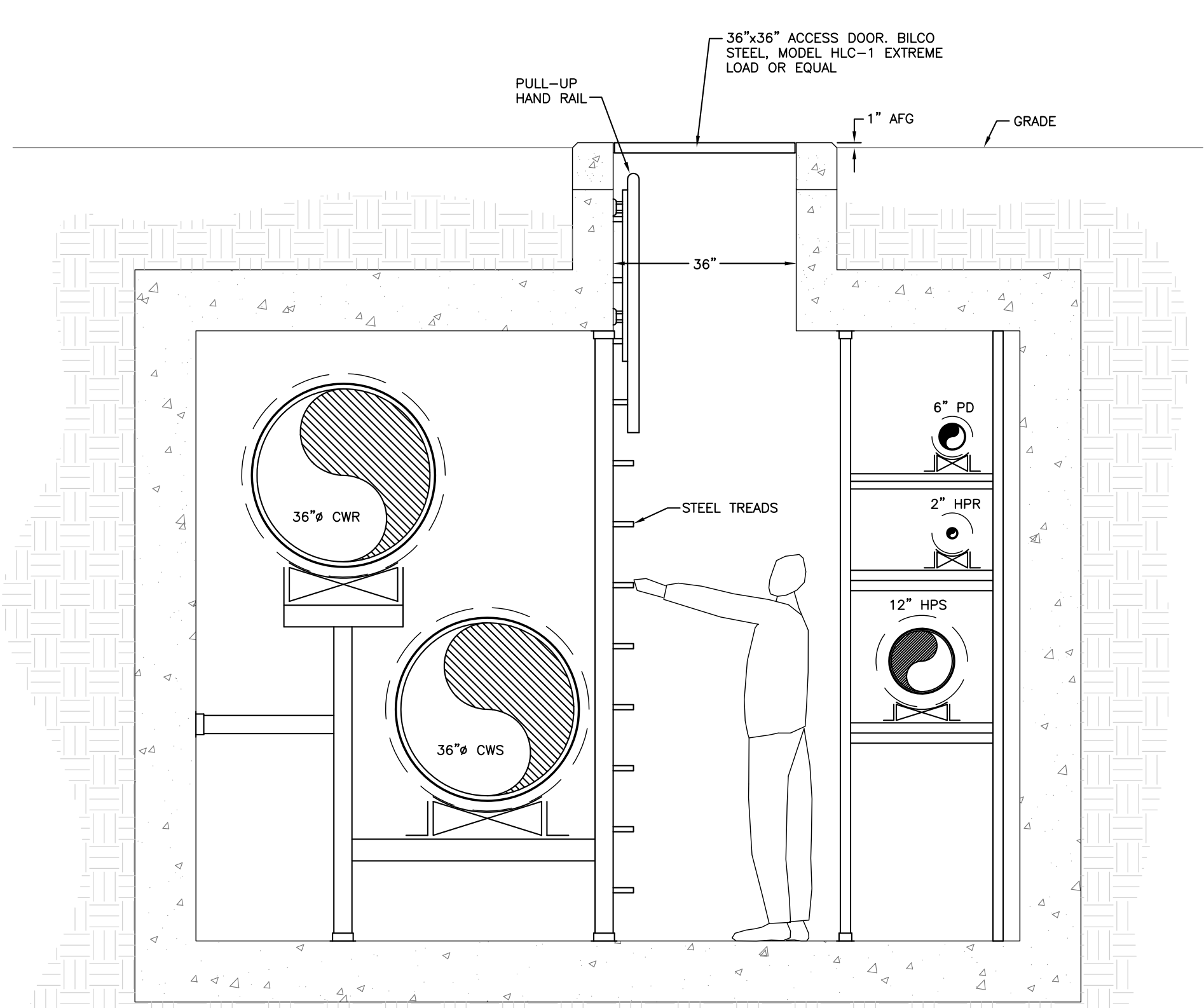
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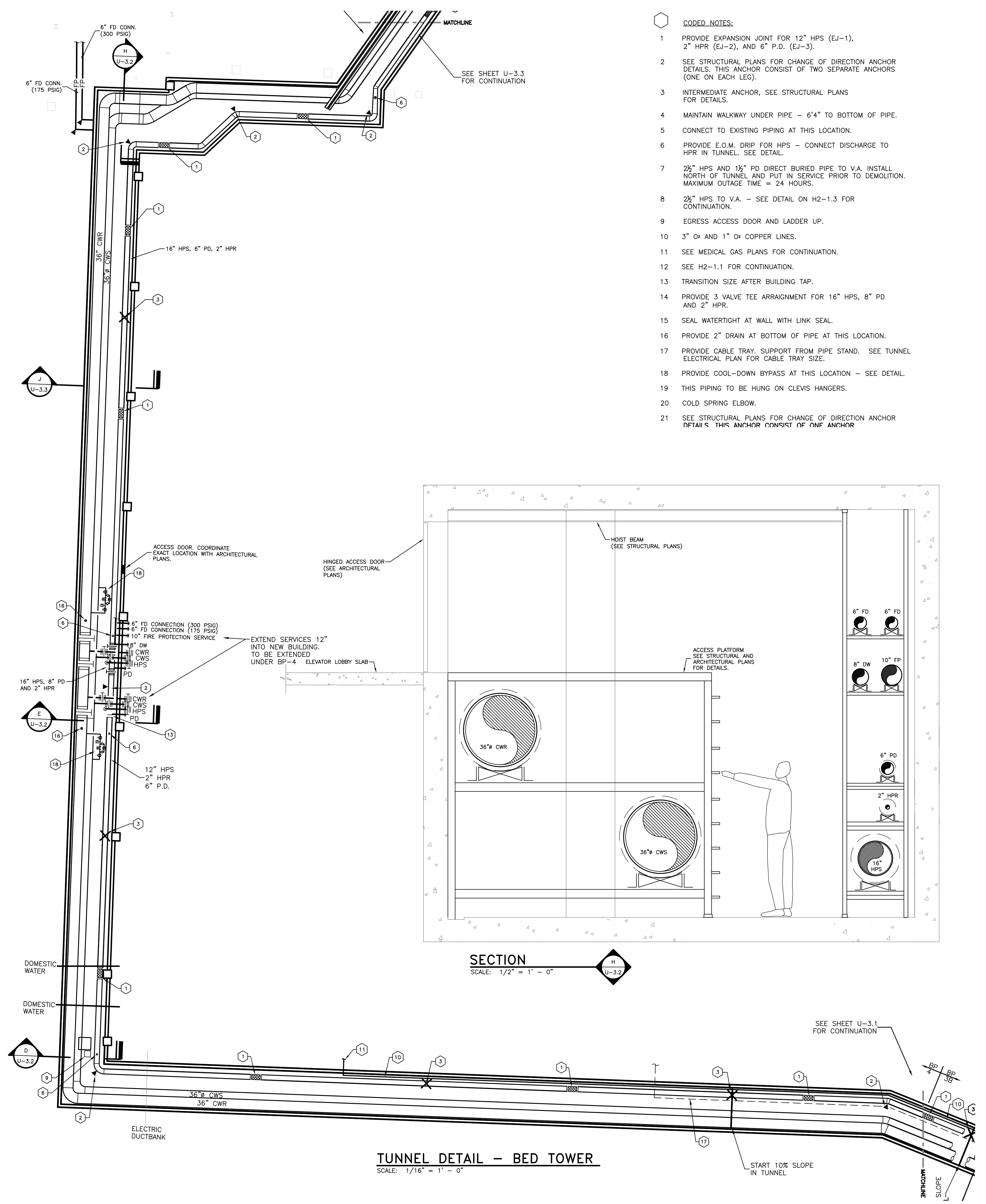
SECTION E
SCALE: 1/2" = 1' - 0"



COOL-DOWN BYPASS PIPING DETAIL
NO SCALE



SECTION D
SCALE: 1/2" = 1' - 0"



SECTION H
SCALE: 1/2" = 1' - 0"

TUNNEL DETAIL - BED TOWER
SCALE: 1/16" = 1' - 0"

- CODED NOTES:**
- 1 PROVIDE EXPANSION JOINT FOR 12" HPS (EJ-1), 2" HPR (EJ-2), AND 6" P.D. (EJ-3).
 - 2 SEE STRUCTURAL PLANS FOR CHANGE OF DIRECTION ANCHOR DETAILS. THIS ANCHOR CONSIST OF TWO SEPARATE ANCHORS (ONE ON EACH LEG).
 - 3 INTERMEDIATE ANCHOR, SEE STRUCTURAL PLANS FOR DETAILS.
 - 4 MAINTAIN WALKWAY UNDER PIPE - 6"4" TO BOTTOM OF PIPE.
 - 5 CONNECT TO EXISTING PIPING AT THIS LOCATION.
 - 6 PROVIDE E.Q.M. DRIP FOR HPS - CONNECT DISCHARGE TO HPR IN TUNNEL. SEE DETAIL.
 - 7 2 1/2" HPS AND 1 1/2" PD DIRECT BURIED PIPE TO V.A. INSTALL NORTH OF TUNNEL AND PUT IN SERVICE PRIOR TO DEMOLITION. MAXIMUM OUTAGE TIME = 24 HOURS.
 - 8 2 1/2" HPS TO V.A. - SEE DETAIL ON H2-1.3 FOR CONTINUATION.
 - 9 EGRESS ACCESS DOOR AND LADDER UP.
 - 10 3" OR AND 1" OR COPPER LINES.
 - 11 SEE MEDICAL GAS PLANS FOR CONTINUATION.
 - 12 SEE H2-1.1 FOR CONTINUATION.
 - 13 TRANSITION SIZE AFTER BUILDING TAP.
 - 14 PROVIDE 3 VALVE TEE ARRANGMENT FOR 16" HPS, 8" PD AND 2" HPR.
 - 15 SEAL WATERTIGHT AT WALL WITH LINK SEAL.
 - 16 PROVIDE 2" DRAIN AT BOTTOM OF PIPE AT THIS LOCATION.
 - 17 PROVIDE CABLE TRAY, SUPPORT FROM PIPE STAND. SEE TUNNEL ELECTRICAL PLAN FOR CABLE TRAY SIZE.
 - 18 PROVIDE COOL-DOWN BYPASS AT THIS LOCATION - SEE DETAIL.
 - 19 THIS PIPING TO BE HUNG ON CLEVIS HANGERS.
 - 20 COLD SPRING ELBOW.
 - 21 SEE STRUCTURAL PLANS FOR CHANGE OF DIRECTION ANCHOR DETAILS. THIS ANCHOR CONSIST OF ONE ANCHOR

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RECORD DRAWINGS DATE 09/01/2011

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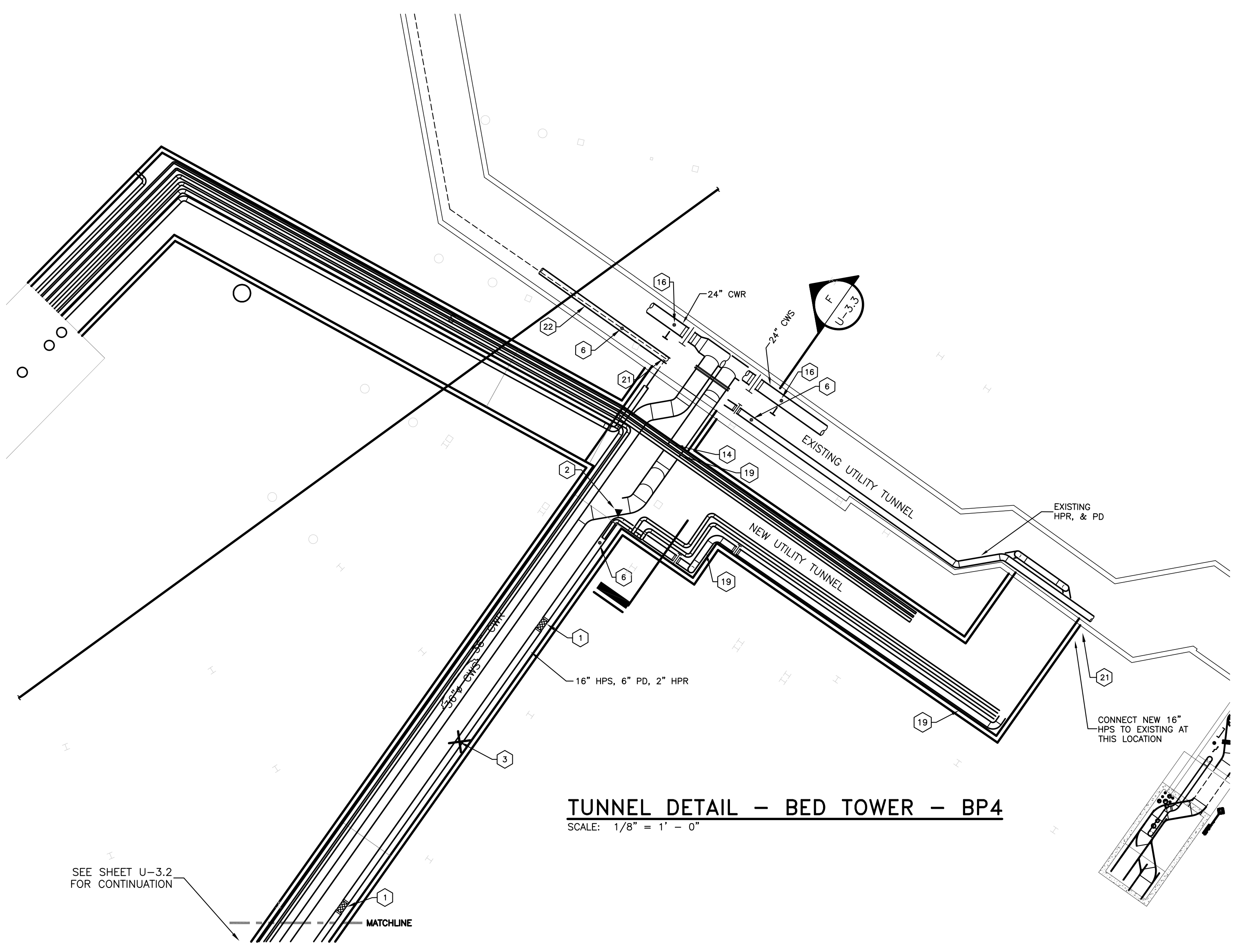
CONTRACT DOCUMENTS		
No.	Date	Description
1	02-15-07	CONTRACT ISSUE
2	09-01-11	RECORD DRAWINGS

Drawing Title:

**SITE UTILITIES PLAN
HOSPITAL DRIVE
NEW WORK
ENLARGED TUNNEL**

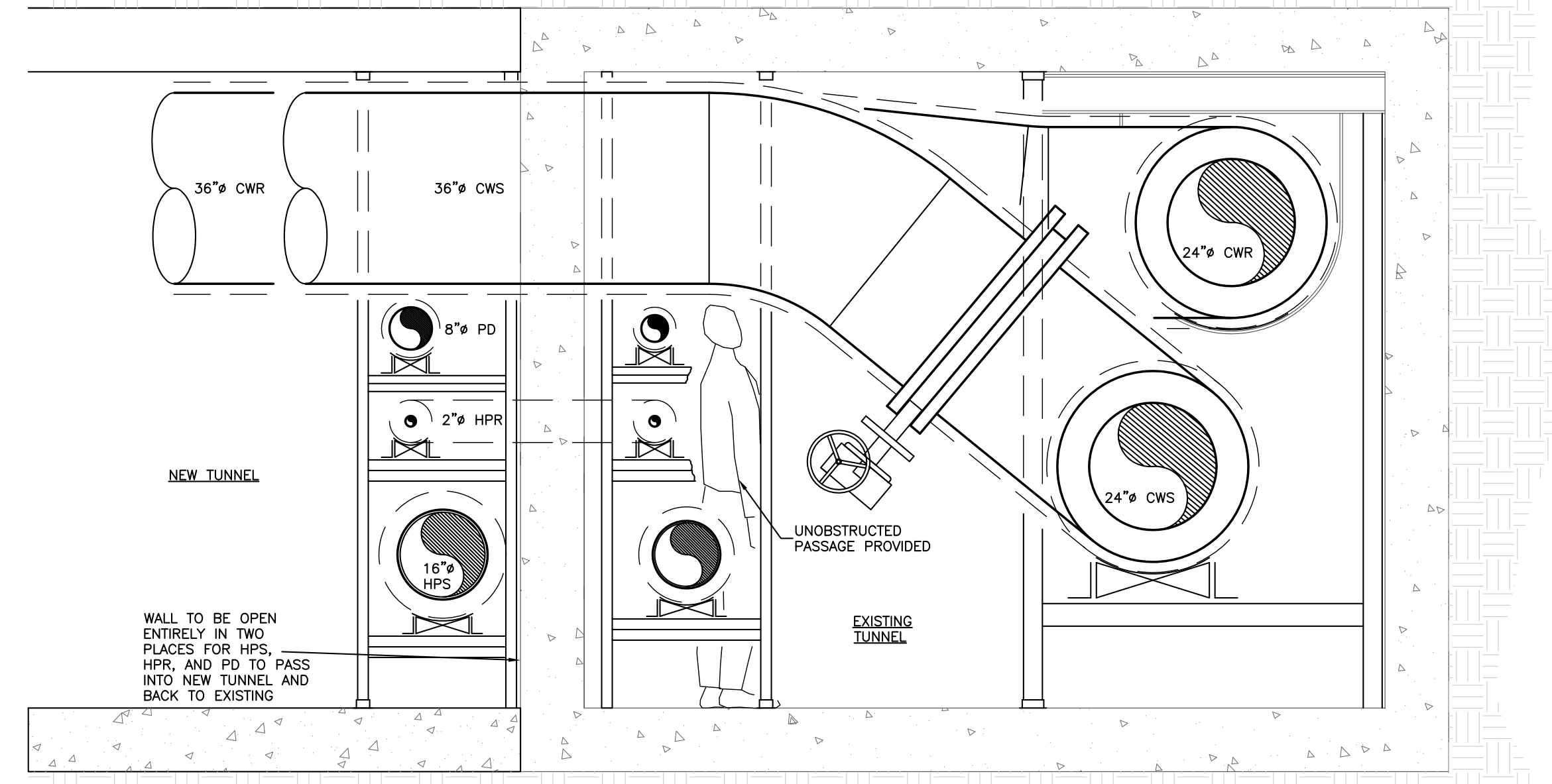
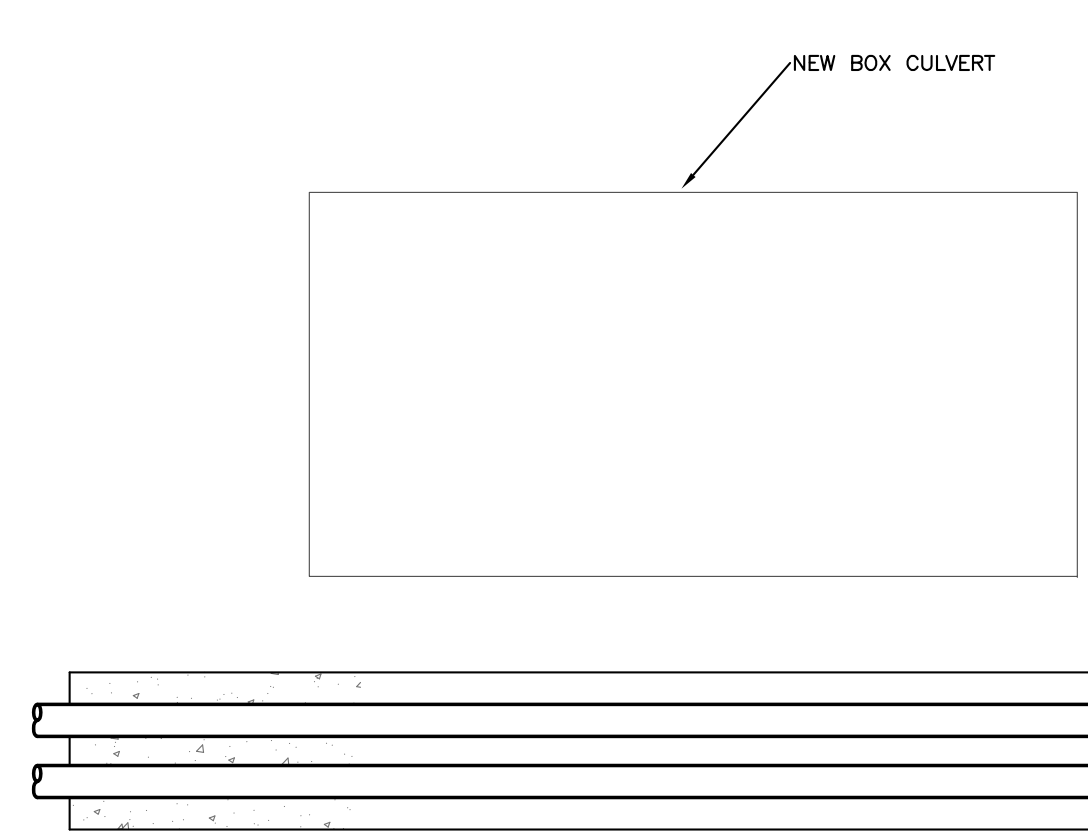
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Scale:
Date: 02-15-07

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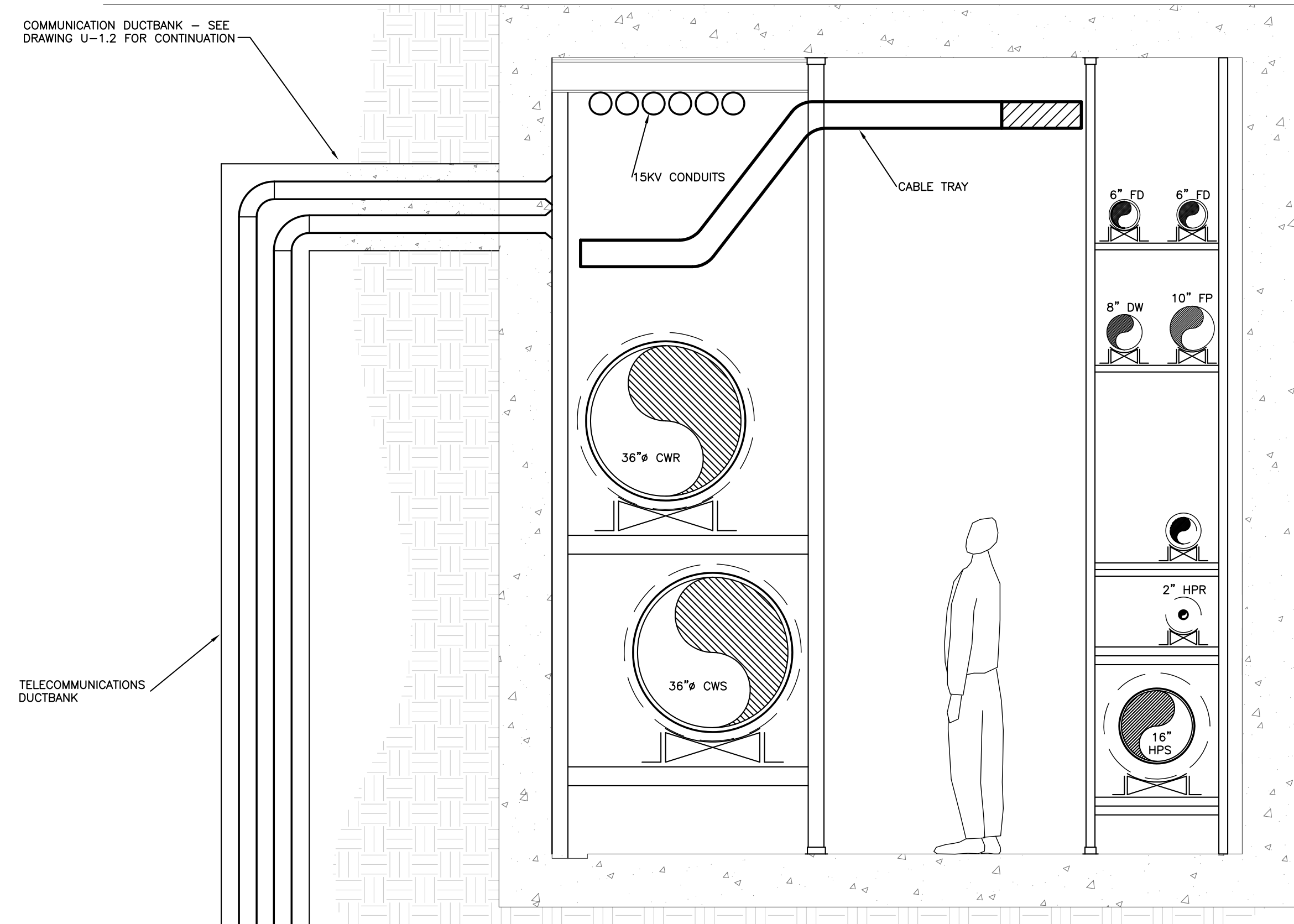


TUNNEL DETAIL - BED TOWER - BP4
SCALE: 1/8\"/>

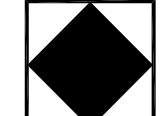

- CODED NOTES:**
- 1 PROVIDE EXPANSION JOINT FOR 12\"/>
 - 2 SEE STRUCTURAL PLANS FOR CHANGE OF DIRECTION ANCHOR DETAILS. THIS ANCHOR CONSIST OF TWO SEPARATE ANCHORS (ONE ON EACH LEG).
 - 3 INTERMEDIATE ANCHOR. SEE STRUCTURAL PLANS FOR DETAILS.
 - 4 MAINTAIN WALKWAY UNDER PIPE - 6'4\"/>
 - 5 CONNECT TO EXISTING PIPING AT THIS LOCATION.
 - 6 PROVIDE E.O.M. DRIP FOR HPS - CONNECT DISCHARGE TO HPR IN TUNNEL. SEE DETAIL.
 - 7 28\"/>
 - 8 26\"/>
 - 9 EGRESS ACCESS DOOR AND LADDER UP.
 - 10 3\"/>
 - 11 SEE MEDICAL GAS PLANS FOR CONTINUATION.
 - 12 SEE H2-1.1 FOR CONTINUATION.
 - 13 TRANSITION SIZE AFTER BUILDING TAP.
 - 14 PROVIDE 3 VALVE TEE ARRANGEMENT FOR 16\"/>
 - 15 SEAL WATERTIGHT AT WALL WITH LINK SEAL.
 - 16 PROVIDE 2\"/>
 - 17 PROVIDE CABLE TRAY SUPPORT FROM PIPE STAND. SEE TUNNEL ELECTRICAL PLAN FOR CABLE TRAY SIZE.
 - 18 PROVIDE COOL-DOWN BYPASS AT THIS LOCATION - SEE DETAIL.



SECTION
SCALE: 1/2\"/>



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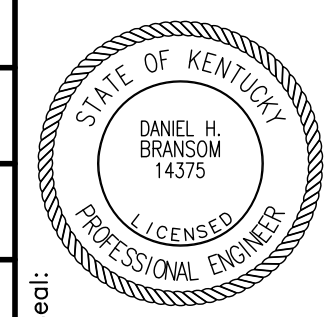

Construct Patient Care Facility
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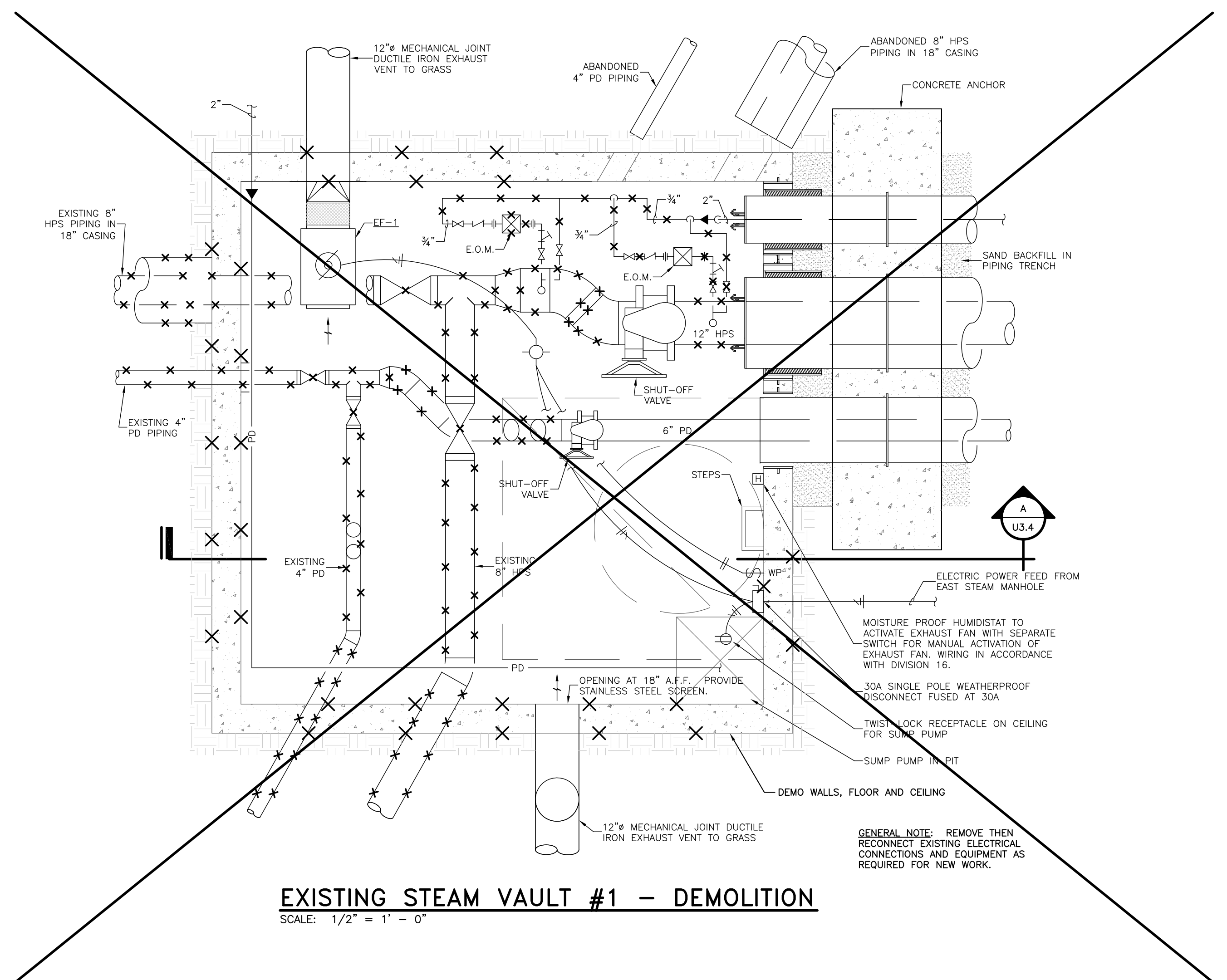
No.	Date	Description
1	02-15-07	CONTRACT ISSUE
2	09-03-11	RECORD DRAWINGS

Drawing Title:
**SITE UTILITIES PLAN
 HOSPITAL DRIVE
 NEW WORK
 ENLARGED TUNNEL**

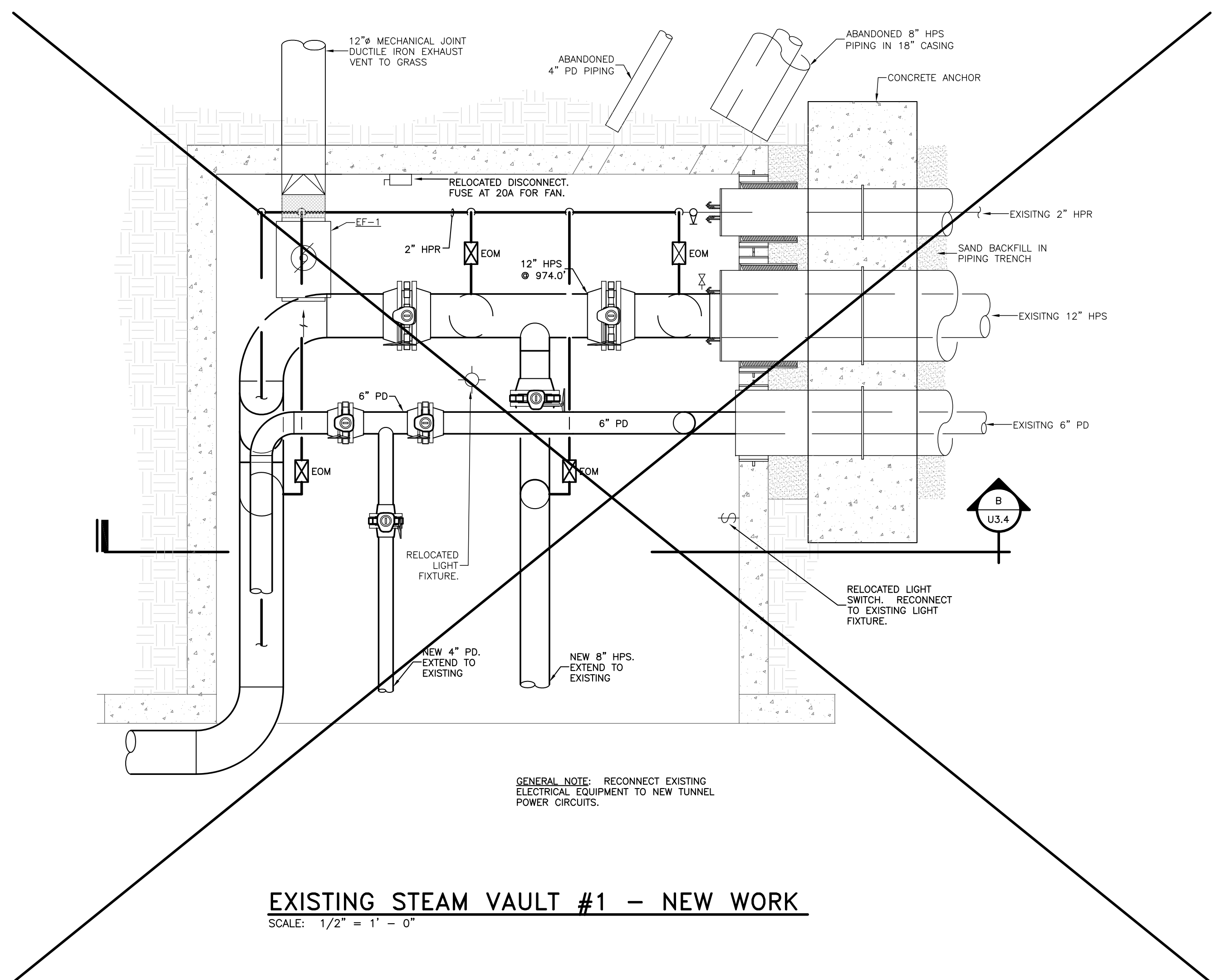
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 Date: 02-15-07


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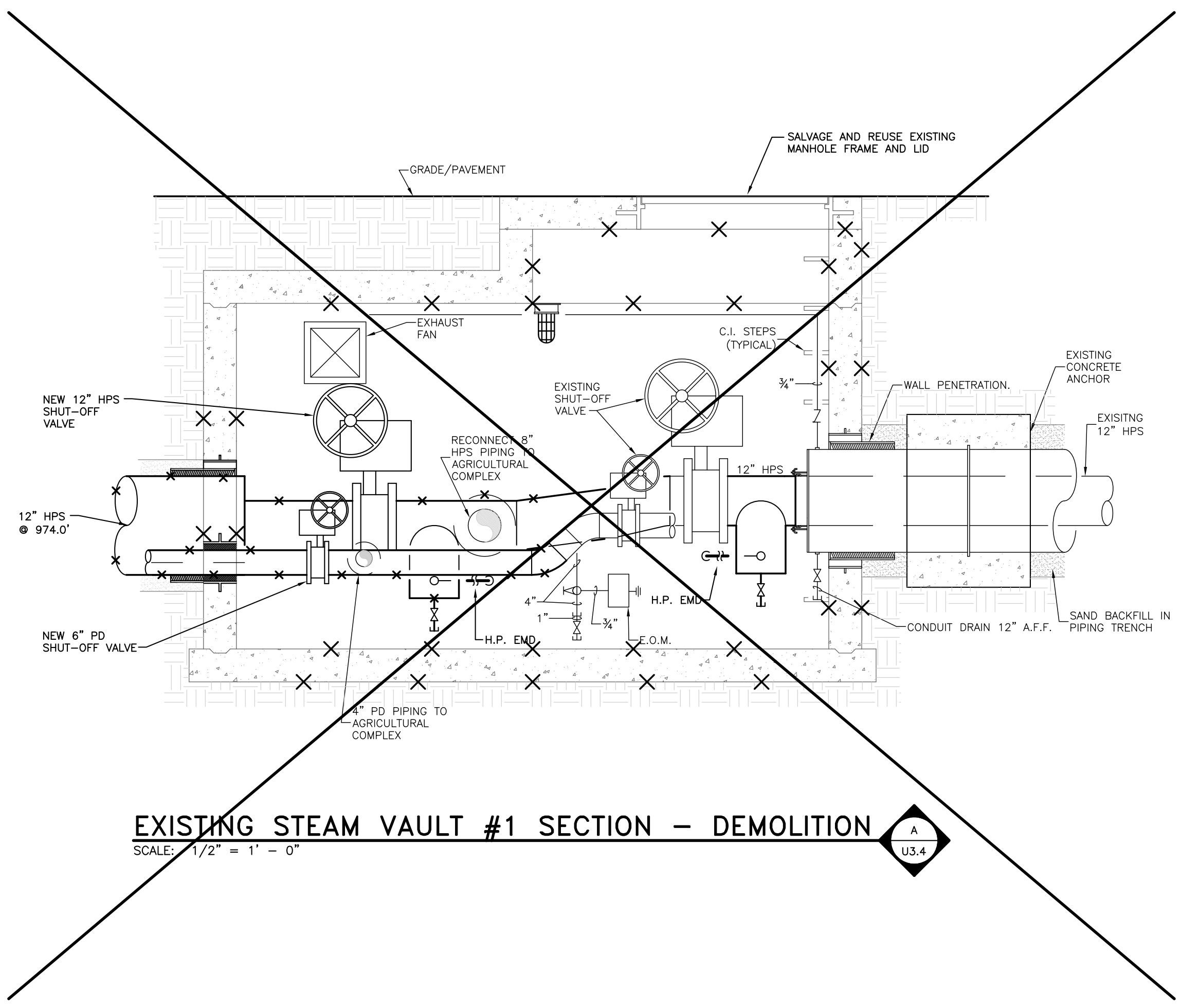
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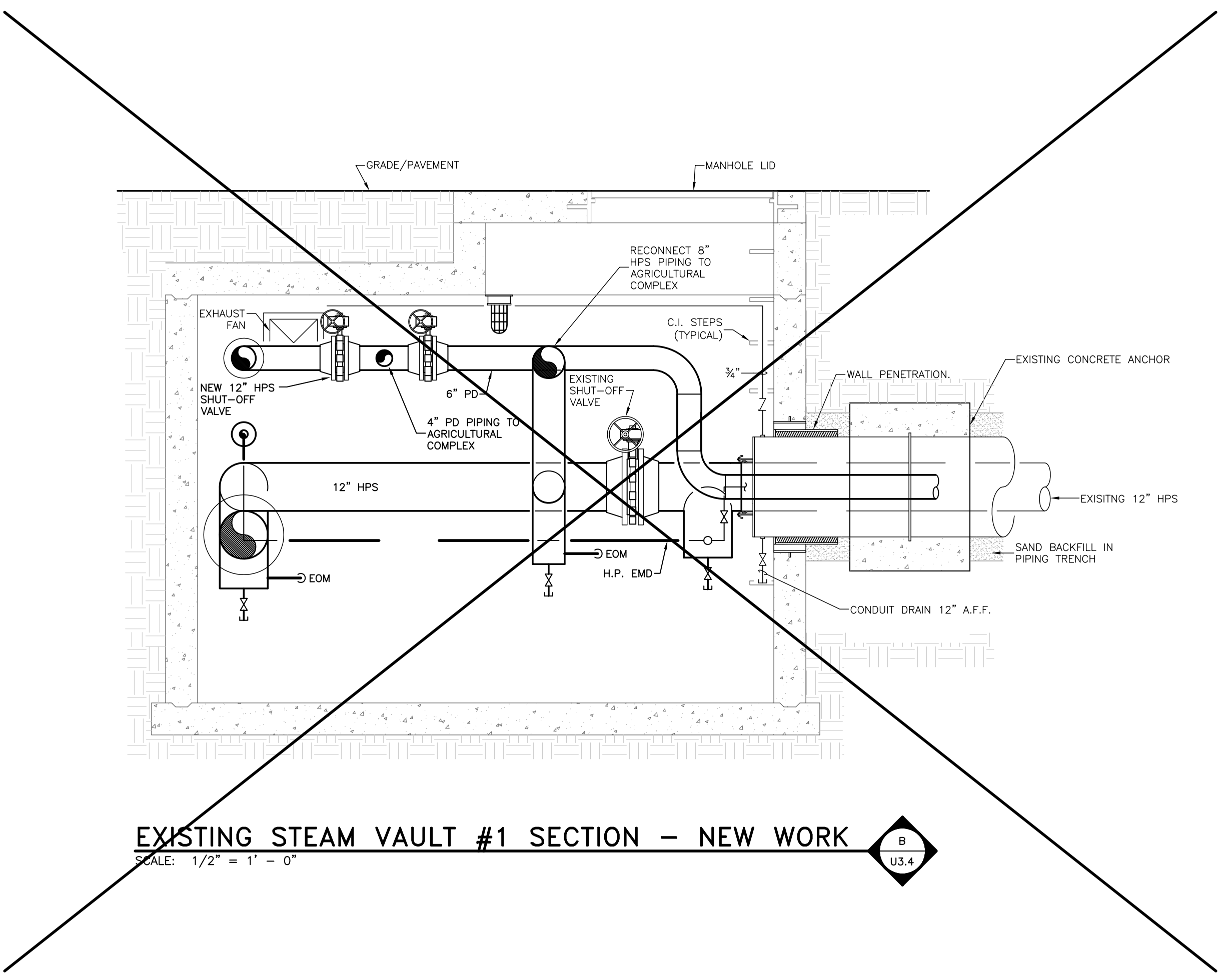
EXISTING STEAM VAULT #1 - DEMOLITION
SCALE: 1/2" = 1' - 0"



EXISTING STEAM VAULT #1 - NEW WORK
SCALE: 1/2" = 1' - 0"



EXISTING STEAM VAULT #1 SECTION - DEMOLITION
SCALE: 1/2" = 1' - 0"



EXISTING STEAM VAULT #1 SECTION - NEW WORK
SCALE: 1/2" = 1' - 0"



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INFRASTRUCTURE

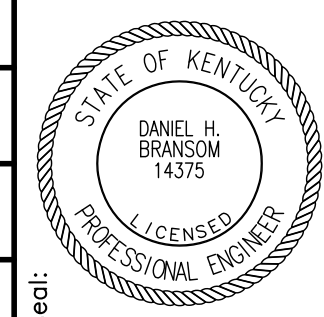
RECORD DRAWINGS DATE 09/01/2011
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STAGGS & FISHER CONSULTING ENGINEERS, INC.

CONTRACT DOCUMENTS

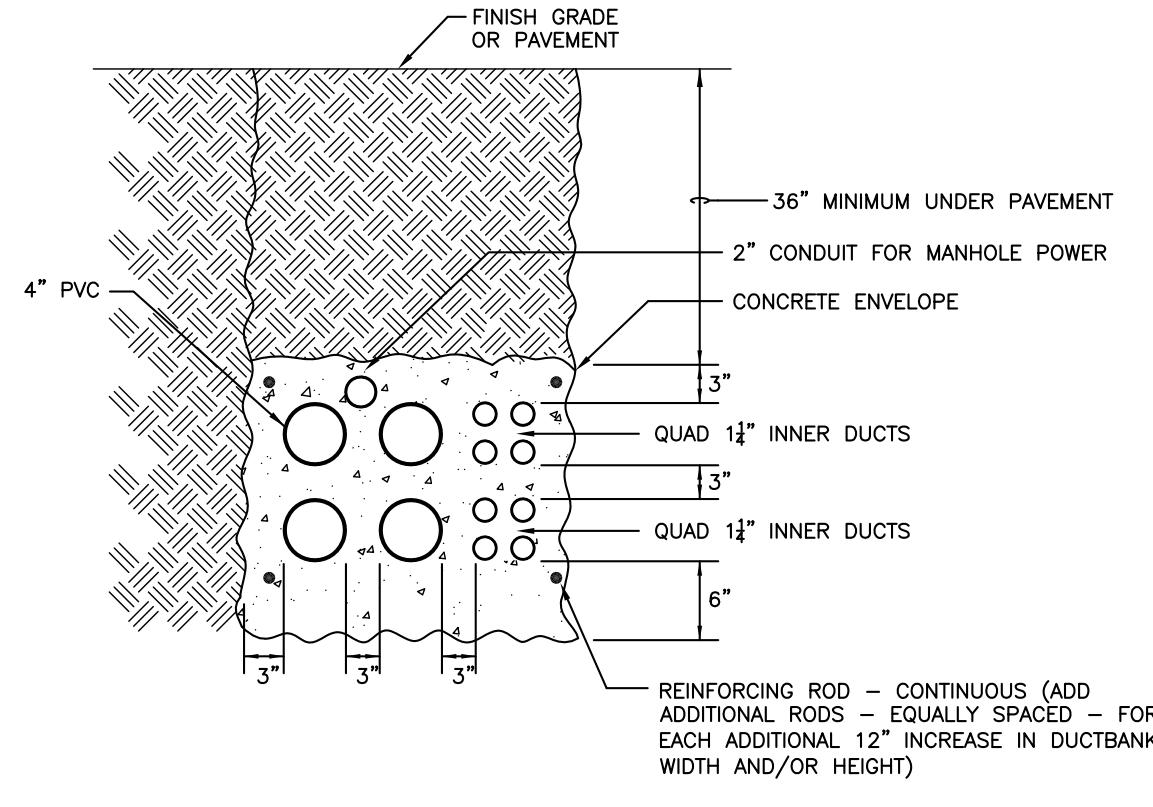
No.	Date	Description
1	02-15-07	CONTRACT ISSUE
2	03-27-07	ADDENDUM NO.5 ISSUE
3	08-01-11	RECORD DRAWINGS

Drawing Title:
**SITE UTILITIES PLAN
HOSPITAL DRIVE
NEW WORK
ENLARGED TUNNEL**

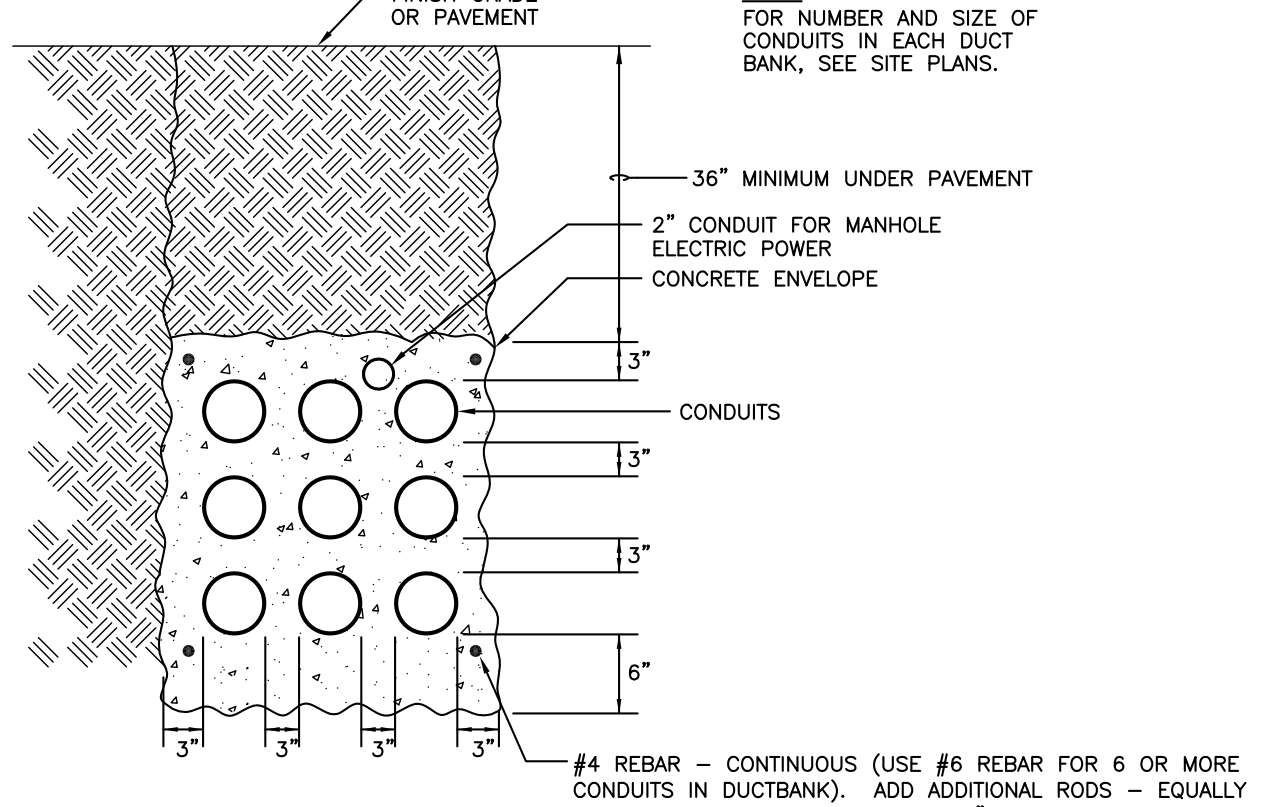
GBBN Job No:
10247
SF File:
05300
Scale:
Date:
02-15-07



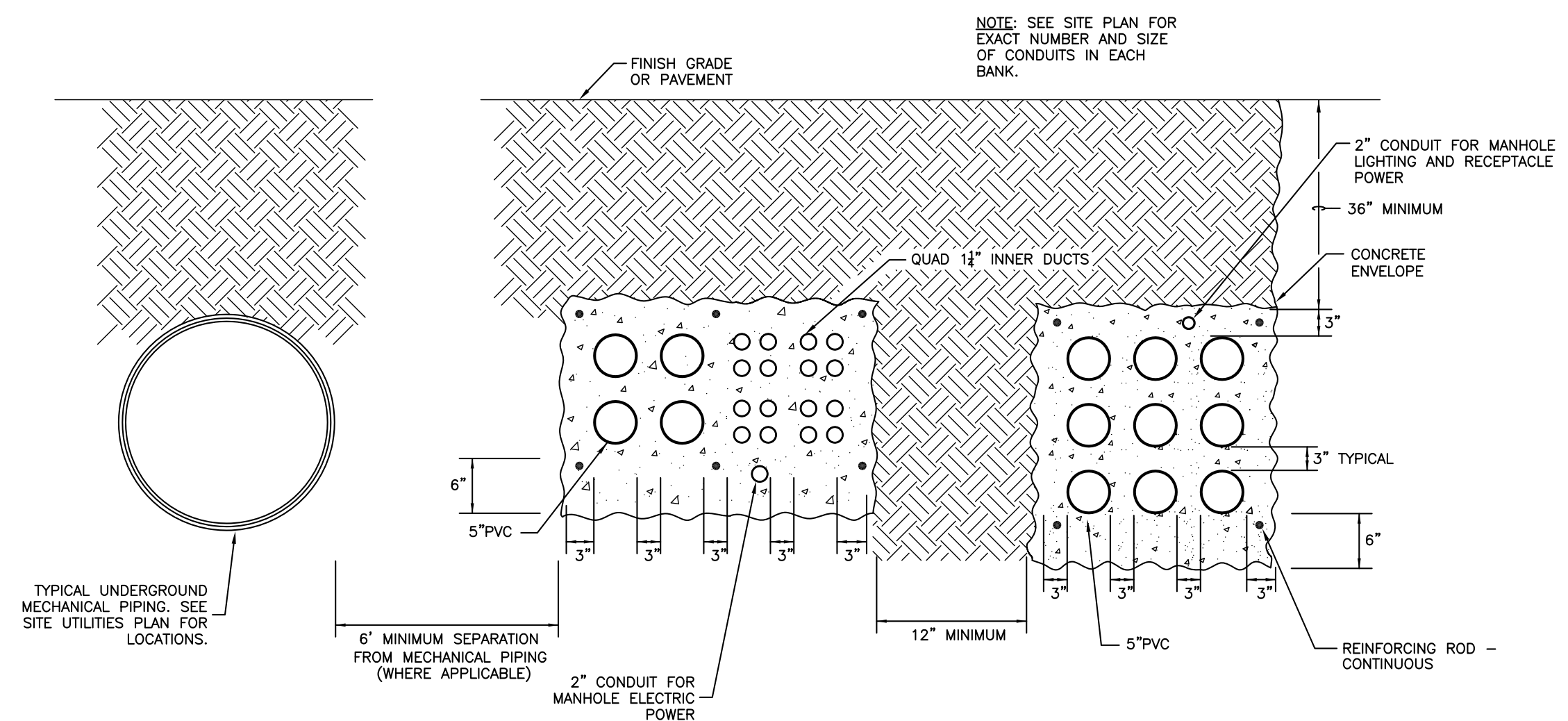
U-3.4



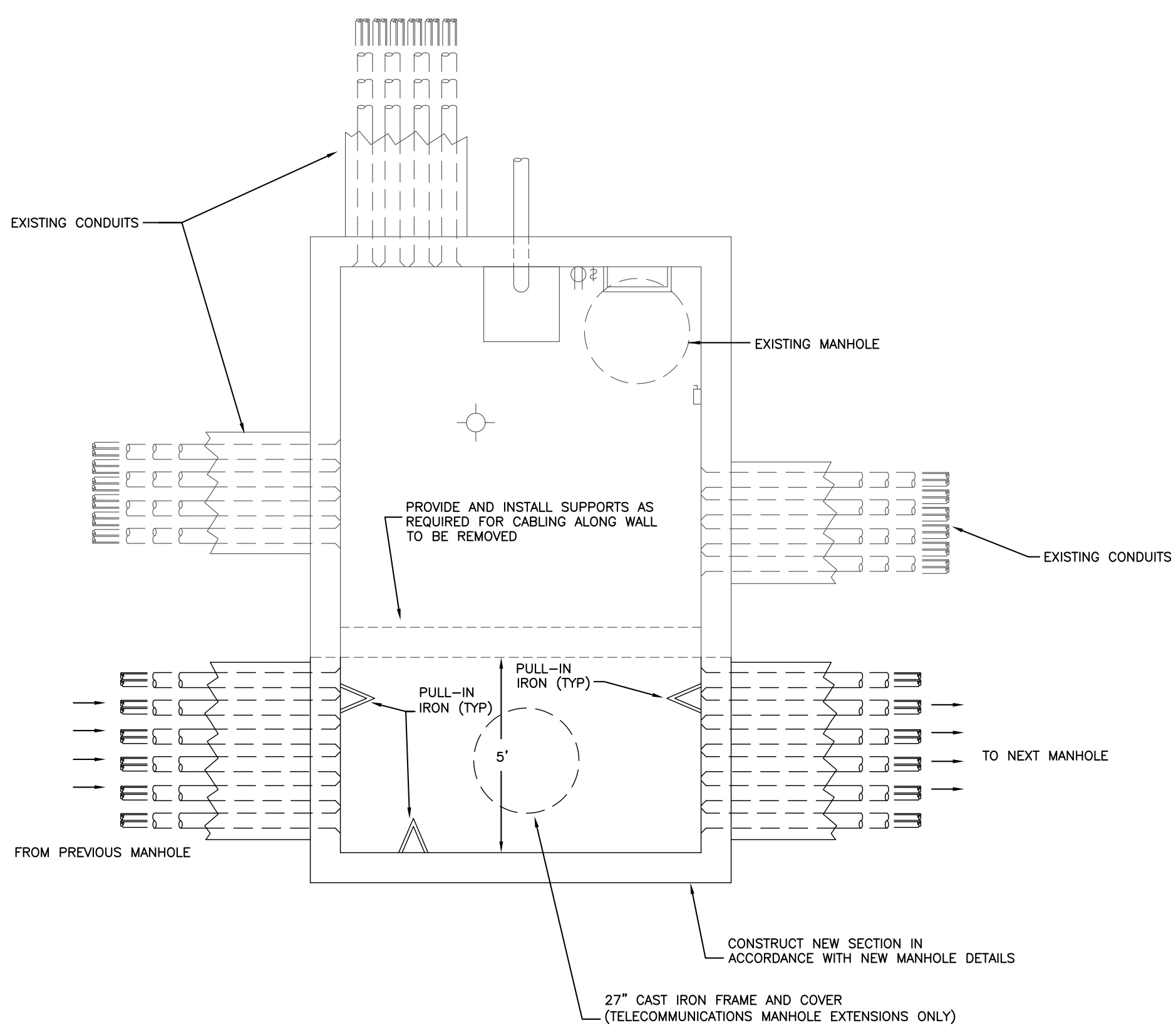
TYPICAL COMMUNICATION CONDUIT INSTALLATION DETAIL
NO SCALE



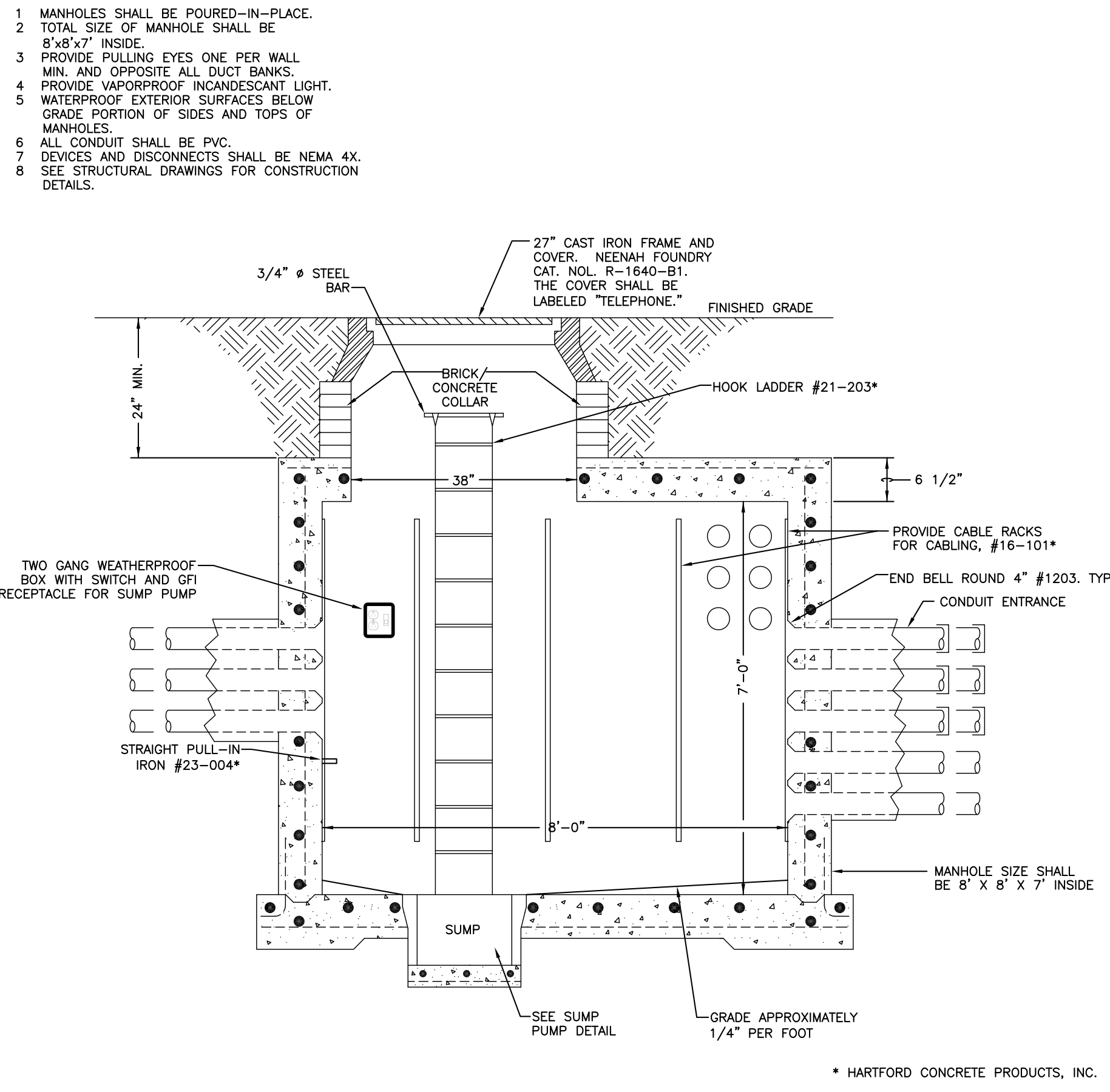
TYPICAL PRIMARY ELECTRICAL DUCTBANK INSTALLATION DETAIL
NO SCALE



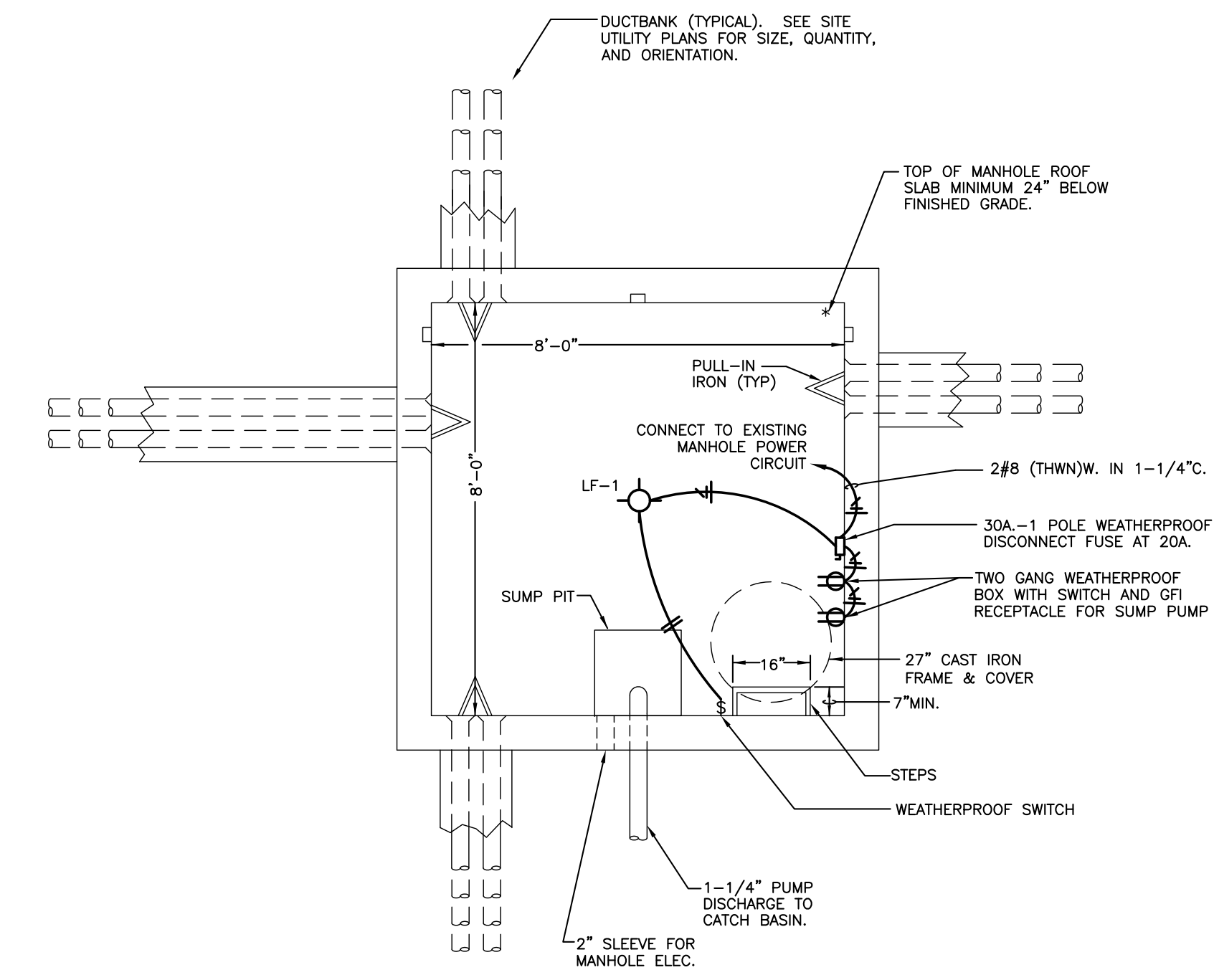
TYPICAL COMMUNICATION/MEDIUM VOLTAGE PARALLELED DUCTBANK INSTALLATION DETAIL
NO SCALE



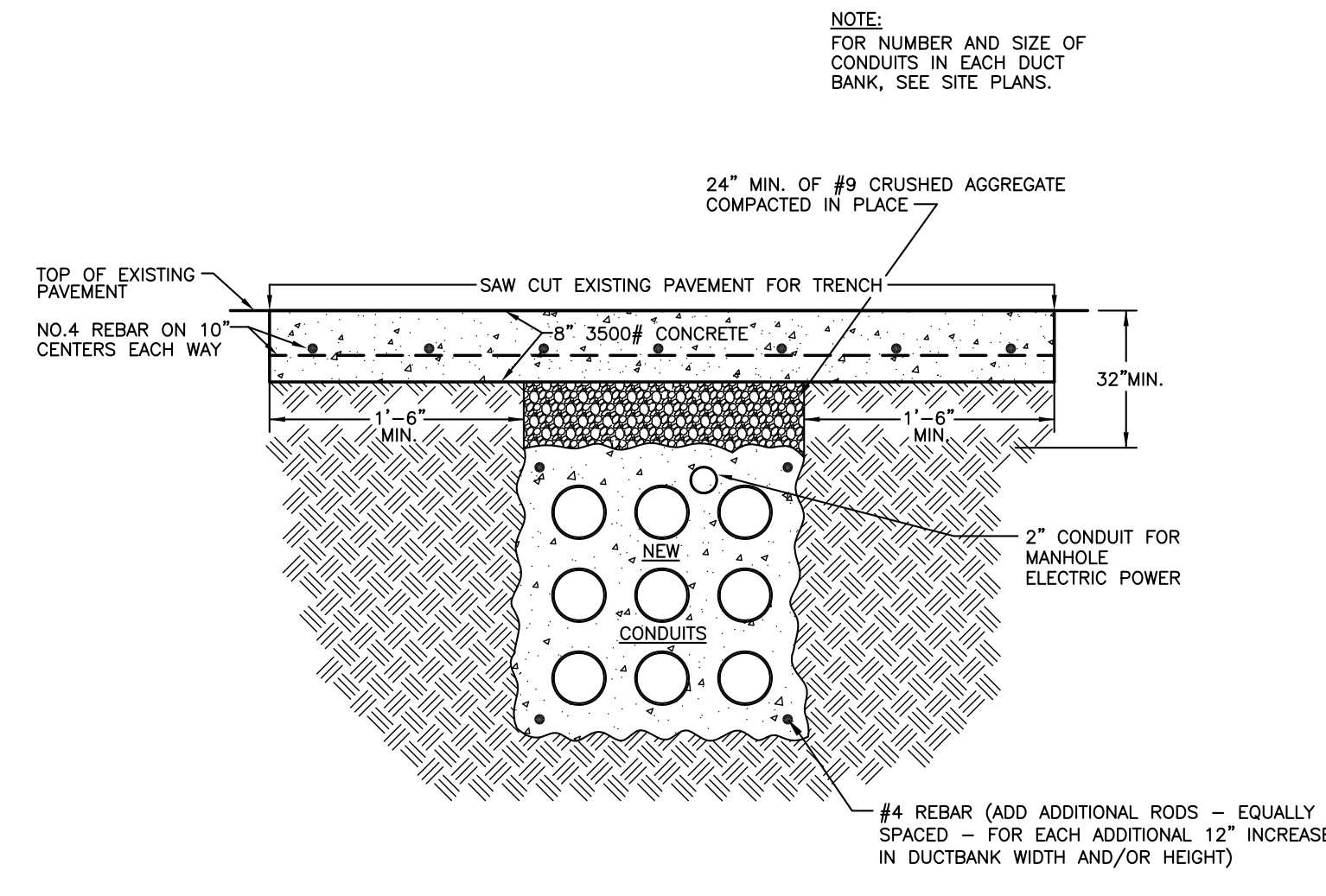
TYPICAL MANHOLE EXTENSION
NO SCALE



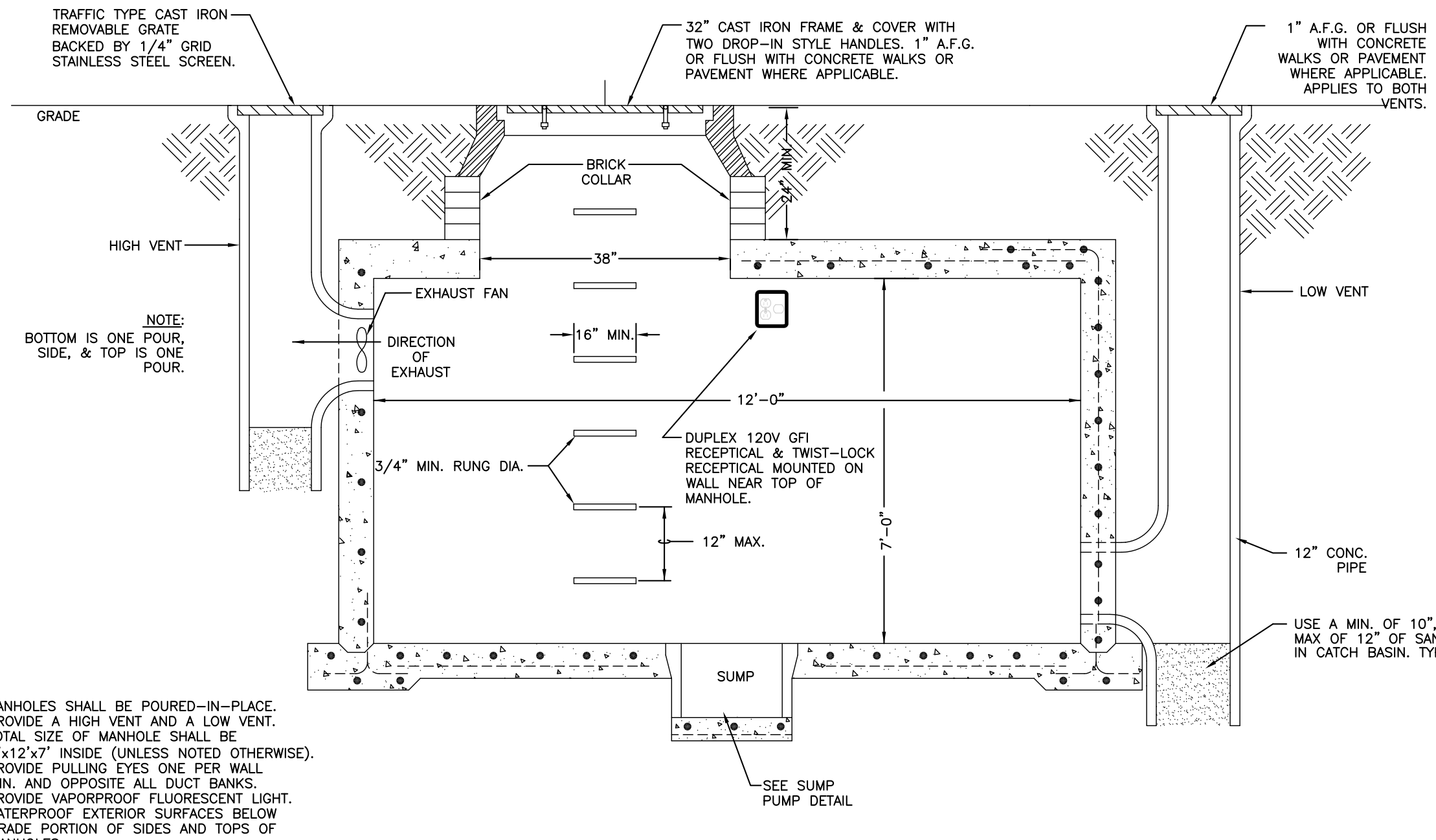
SECTION THROUGH NEW COMMUNICATION MANHOLE
NO SCALE



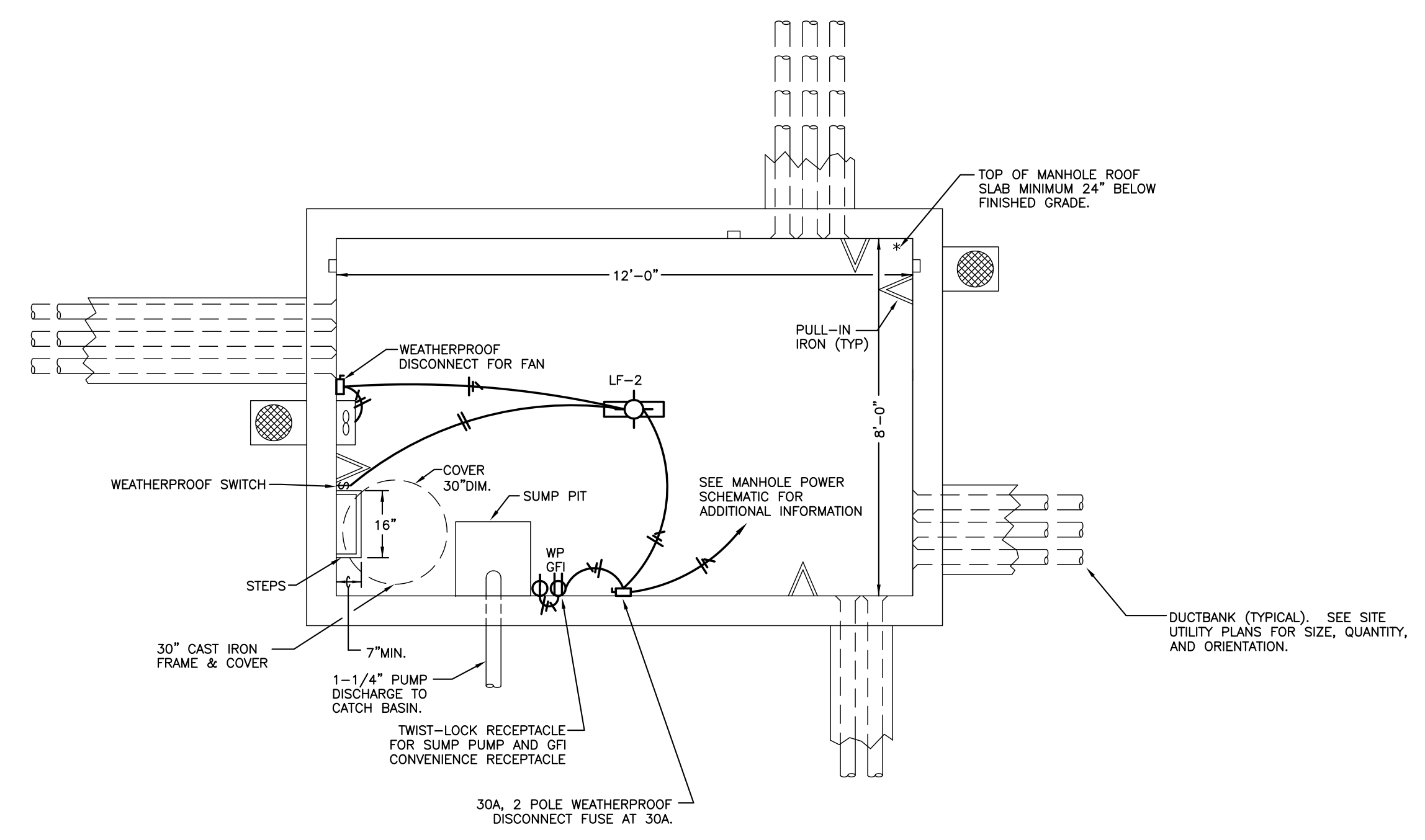
PLAN - NEW COMMUNICATION MANHOLE
NO SCALE



TYPICAL INSTALLATION DETAIL OF DUCTBANK UNDER ROADWAY
NO SCALE



SECTION THROUGH NEW ELECTRIC MANHOLE
NO SCALE



PLAN - NEW ELECTRIC MANHOLE
NO SCALE

NO. 330335318F03B DETAILS 06/20/11 12:29 PM maha.11



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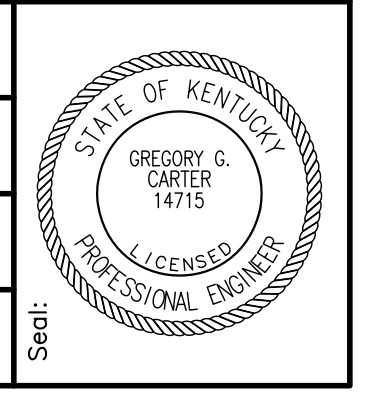
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Drawing Issue:
CONTRACT DOCUMENTS

No.	Date	Description
1	02-15-07	CONTRACT ISSUE
2	09-03-11	RECORD DRAWINGS

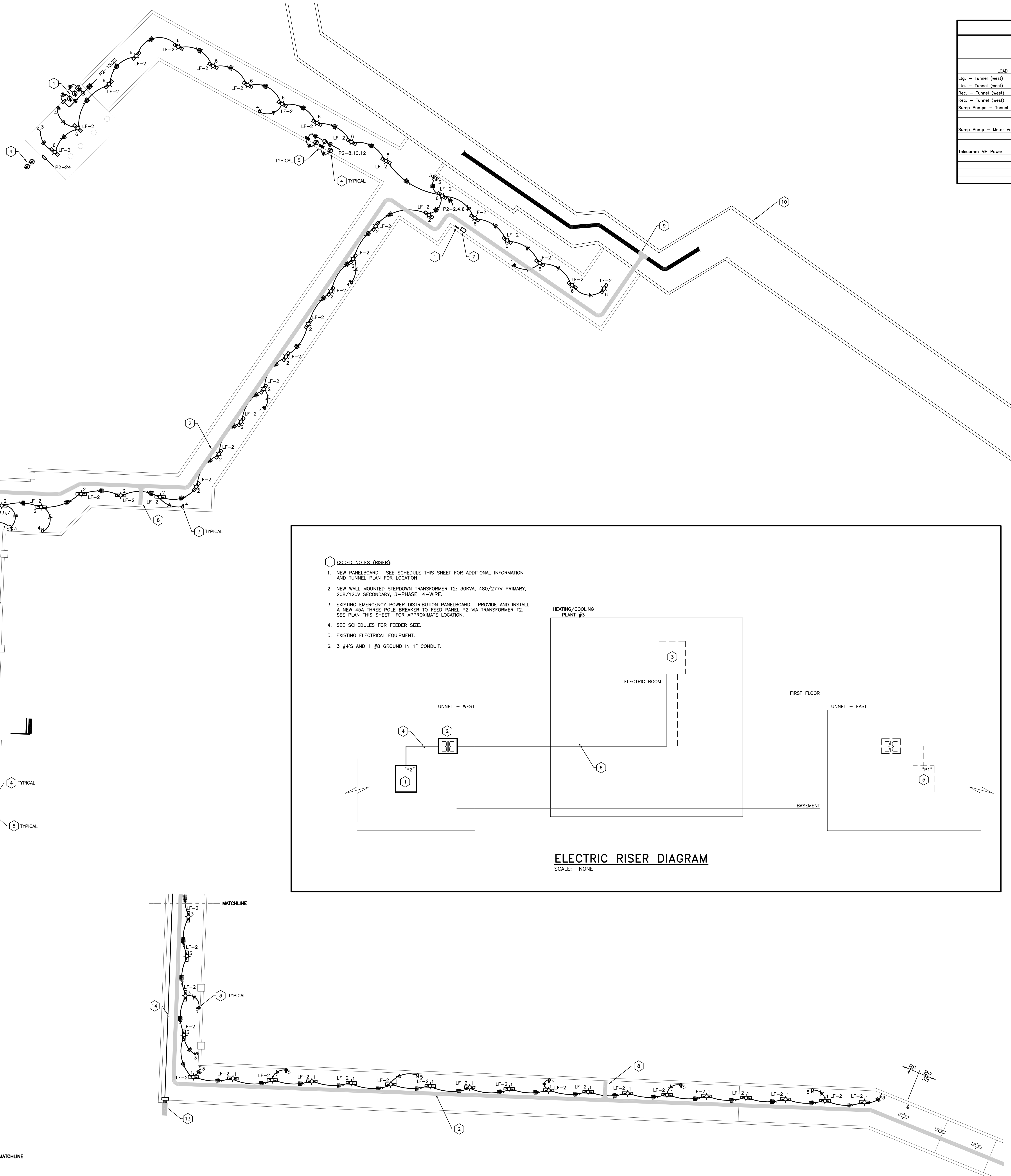
Drawing Title:
SITE UTILITY DETAILS

GBBN Job No:
10247
SF File:
05300
Scale:
AS NOTED
Date:
02-15-07



U-3.7

NOTE: IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DISCREPANCIES FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIPS OF THE WORK OF VARIOUS TRADES, AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION OF CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES, DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTOR'S CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN THEMSELVES.



ELECTRIC PLAN - TUNNEL - WEST
SCALE: 1/32" = 1' - 0"

CODED NOTES (RISER):

1. NEW PANELBOARD. SEE SCHEDULE THIS SHEET FOR ADDITIONAL INFORMATION AND TUNNEL PLAN FOR LOCATION.
2. NEW WALL MOUNTED STEPDOWN TRANSFORMER T2: 30KVA, 480/277V PRIMARY, 208/120V SECONDARY, 3-PHASE, 4-WIRE.
3. EXISTING EMERGENCY POWER DISTRIBUTION PANELBOARD. PROVIDE AND INSTALL A NEW 45A THREE POLE BREAKER TO FEED PANEL P2 VIA TRANSFORMER T2. SEE PLAN THIS SHEET FOR APPROXIMATE LOCATION.
4. SEE SCHEDULES FOR FEEDER SIZE.
5. EXISTING ELECTRICAL EQUIPMENT.
6. 3 #4'S AND 1 #6 GROUND IN 1" CONDUIT.

CODED NOTES (TUNNEL PLAN - WEST):

1. NEW PANELBOARD P2. SEE SCHEDULE AND RISER THIS SHEET FOR ADDITIONAL INFORMATION.
2. 18"x6" DEEP ALUMINUM LADDER TRAY. SEE SPECIFICATIONS.
3. MOUNT RECEPTACLE AT 30" AFF ON VERTICAL PIPING SUPPORT IN AREA INDICATED.
4. PROVIDE CONNECTION TO MECHANICAL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. SEE MECHANICAL PLANS AND SCHEDULES FOR ADDITIONAL INFORMATION.
5. MOUNT STARTER/DISCONNECT ON VERTICAL PIPING SUPPORT ADJACENT TO SUMP PIT. PROVIDE AND INSTALL ADDITIONAL UNISTRUT TO PROPERLY SUPPORT THE STARTER/DISCONNECT AND MOUNT SO THAT IT FACES PARALLEL TO TUNNEL.
6. LOCATION OF EXISTING EMERGENCY DISTRIBUTION PANELBOARD IN FIRST FLOOR ELECTRIC ROOM. SEE RISER DIAGRAM FOR ADDITIONAL INFORMATION.
7. NEW WALL MOUNTED STEPDOWN TRANSFORMER T2. SEE ELECTRICAL RISER.
8. TEE CONNECTION FOR FUTURE PATIENT CARE FACILITY CABLING. TERMINATE 6" FROM TUNNEL WALL AT LOCATION INDICATED.
9. REMOVE SECTION OF EXISTING CABLE TRAY AS REQUIRED TO INSTALL NEW TEE CONNECTION TO JOIN THE EXISTING AND NEW CABLE TRAYS.
10. EXISTING UNDERGROUND UTILITY TUNNEL.
11. EXISTING HEATING & COOLING PLANT #3.
12. EXTEND EXISTING TELECOMMUNICATIONS DUCTBANK INTO TUNNEL. SEE SHEETS U1.2 AND U3.2 FOR ADDITIONAL INFORMATION.
13. TIE NEW ELECTRIC DUCTBANK INTO TUNNEL WALL. SEE SHEET U1.2 FOR CONTINUATION.
14. SIX 5" GALVANIZED RIGID STEEL CONDUITS FOR FUTURE PCF ELECTRIC SERVICE CONNECTION. ROUTE TO LOCATION INDICATED AND CAP. STRAP CONDUITS HORIZONTALLY ALONG PIPING SUPPORTS A TOP OF TUNNEL. SEE DETAIL J ON SHEET U3.3.

PANELBOARD - 0085/00/TUNNEL/EDS/E/P2														
MOUNTING - SURFACE											480 - MAIN			
LOCATION - PCF Utility Tunnel (west)											FEEDER			
VOLTAGE - 208/120											3 - PHASE			
LOAD	W	TYPE	CB	POLE	SIZE	#	A	B	C	WIRE #	BRK	POLE	CB	LOAD
Ltg. - Tunnel (west)	1.28	L	20	1	12	3	X			2	12	1	20	L 0.99 Ltg. - Tunnel (west)
Ltg. - Tunnel (west)	1.42	L	20	1	12	3	X			4	12	1	20	R 1.08 Ltg. - Tunnel (west)
Rec. - Tunnel (west)	0.90	R	20	1	12	5	X			6	12	1	20	L 0.85 Ltg. - Tunnel (west)
Rec. - Tunnel (west)	1.08	R	20	1	12	7	X			8	12	3	20	M 0.68 Sump Pumps - Tunnel (west)
Sump Pumps - Tunnel (west)	0.68	M	20	3	12	9	X			10	12	****	****	M 0.68 Sump Pumps - Tunnel (west)
	0.68	M	****	****	12	11	X			12	12	****	****	M 0.68 Sump Pumps - Tunnel (west)
	0.68	M	****	****	12	13	X			14	12	1	15	M 0.37 Exh. Fan - Tunnel (west)
Sump Pump - Meter Vault	1.80	M	15	3	12	19	X			16	12	3	15	M 0.70 Sump Pump - Meter Vault
		M	****	****	12	17	X			18	12	****	****	M Sump Pump - Meter Vault
		M	****	****	12	19	X			20	12	****	****	M Sump Pump - Meter Vault
Telecomm MH Power	4.00	M	50	1	8	21	X			22				M 1.00 Sump Pump - Storm MH Pumps
						23	X			24	10	1	30	M Sump Pump - Storm MH Pumps
						25	X			26				
						27	X			28				
						29	X			30				

LIGHT FIXTURE SCHEDULE	
LF-1	Surface mounted non-metallic incandescent vapor proof fixture with corrosion resistant glass reinforced polyester thermoplastic housing, high impact resistant glass reinforced polymer alloy guard, brass screws and inserts, long-life silicone gaskets, grey finish, phenolic lamp holder, and one (1) 150 watt A21 lamp. Canlet 6802XF15G-GSC series. Neutral equal.
LF-2	Surface mounted UL listed wet location corrosion resistant 1 x 4 industrial fluorescent with ABS plastic housing, gasketed stainless steel screw latches, high impact inside frosted diffuser, 10% or less THD instant start multi-volt ballast, and two (2) F32T8 41K lamps. Ultra-DIMM series. Neutral equal. Dyrtrite equal.

GBBN architects

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UK # 2239.3B
BP - 3B
INFRASTRUCTURE

RECORD DRAWINGS DATE 09/01/2011

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CONTRACT DOCUMENTS

No.	Date	Description
1	02-15-07	CONTRACT ISSUE
2	09-01-11	RECORD DRAWINGS

ELECTRICAL PLAN HOSPITAL DRIVE TUNNEL NEW WORK

GBBN Job No: 10247

SF File: 05300

Scale:

Date: 02-15-07

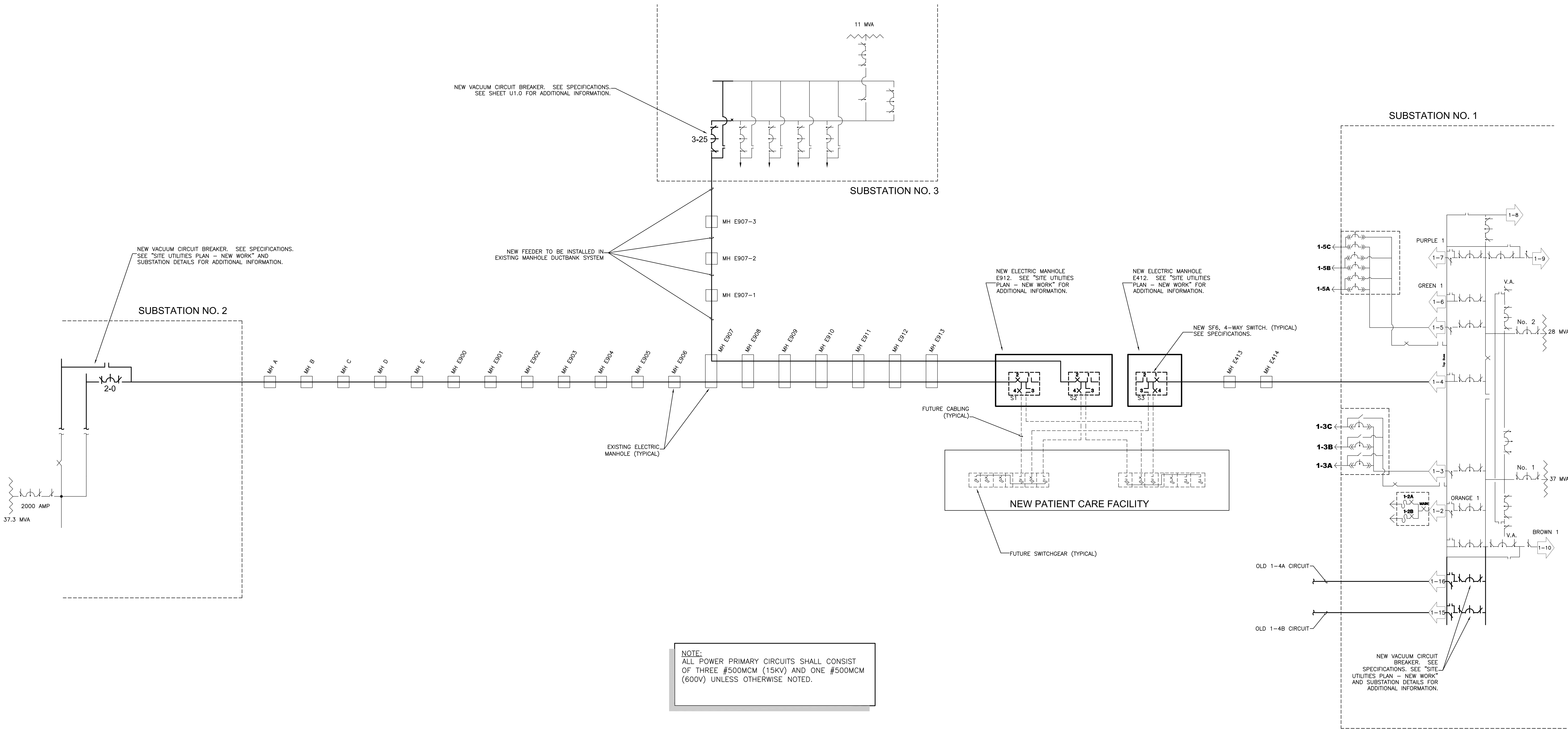
Shel:

STATE OF KENTUCKY
GREGORY B. CARTER
14715
REGISTERED PROFESSIONAL ENGINEER

U-3.9

S:\303515\BP-3B\DETAILS\12KV\12KV1011310111.dwg, 02/15/07 11:01 AM, mabell, 1:1

NOTE: IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIPS OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIPS OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES AND SECTIONS ARE SHOWN FOR THE CONTRACTOR'S CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN ANY DETAIL.



NOTE:
ALL POWER PRIMARY CIRCUITS SHALL CONSIST OF THREE #500MCM (15KV) AND ONE #500MCM (600V) UNLESS OTHERWISE NOTED.

ELECTRICAL DISTRIBUTION - 12KV RISER DIAGRAM
NO SCALE



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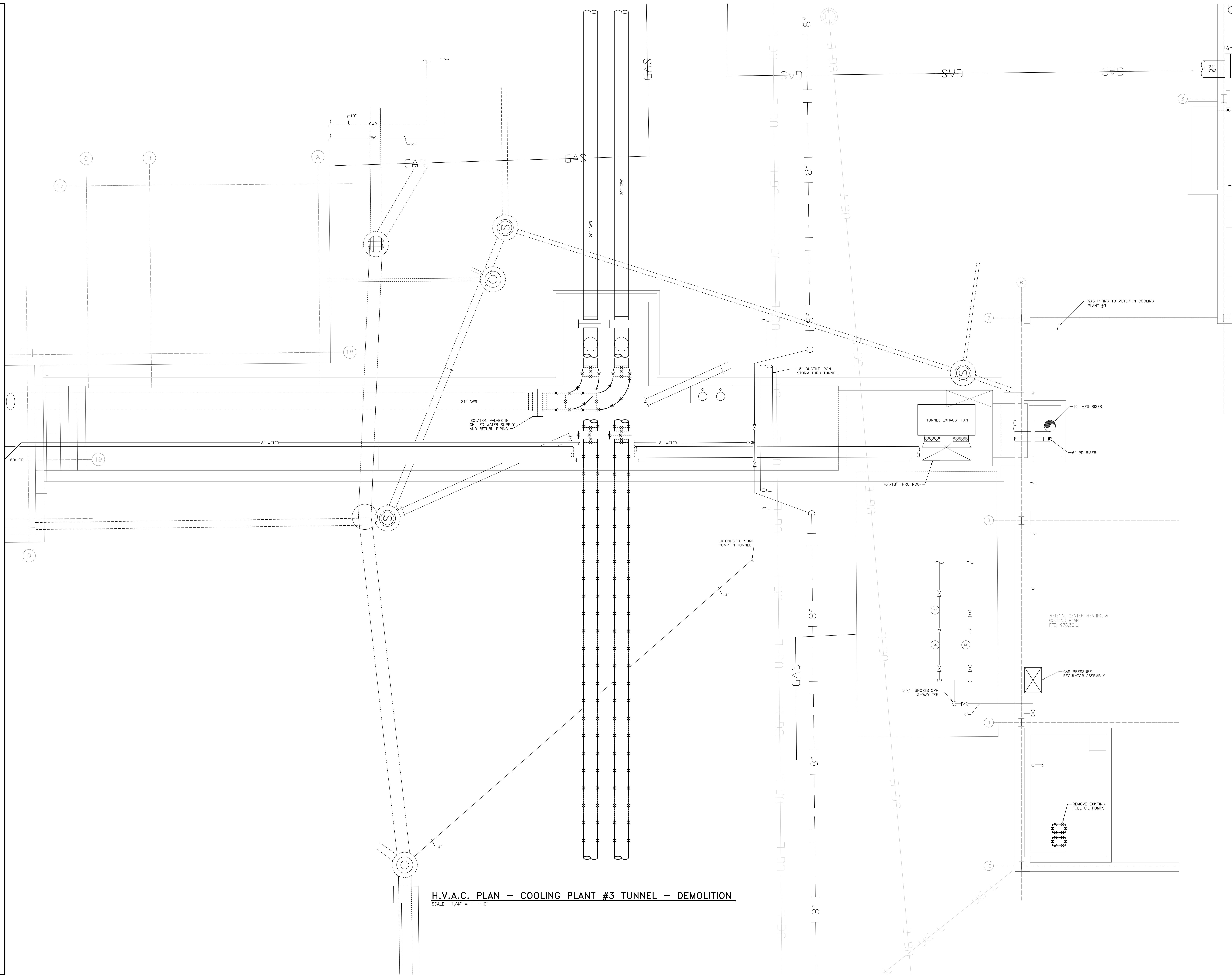
CONTRACT DOCUMENTS

No.	Date	Description
1	02-15-07	CONTRACT ISSUE
2	09-01-11	RECORD DRAWINGS

ELECTRICAL DISTRIBUTION 12 KV RISER

GBBN Job No: 10247
SF File: 05300
Scale:
Date: 02-15-07
She:

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H.V.A.C. PLAN - COOLING PLANT #3 TUNNEL - DEMOLITION
 SCALE: 1/4" = 1' - 0"



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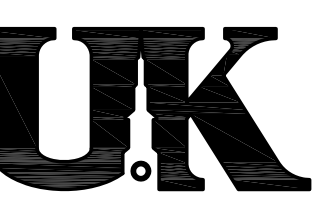
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 334 LEXINGTON DR
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Construct Patient Care Facility

UK # 2239.3B

BP - 3B

INFRASTRUCTURE

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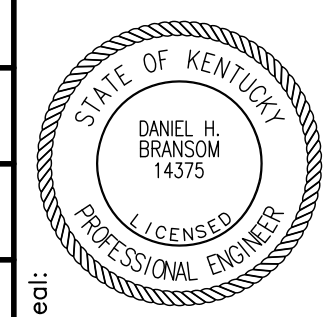
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CONTRACT DOCUMENTS

No.	Date	Description
1	02-15-07	CONTRACT ISSUE
2	09-01-11	RECORD DRAWINGS

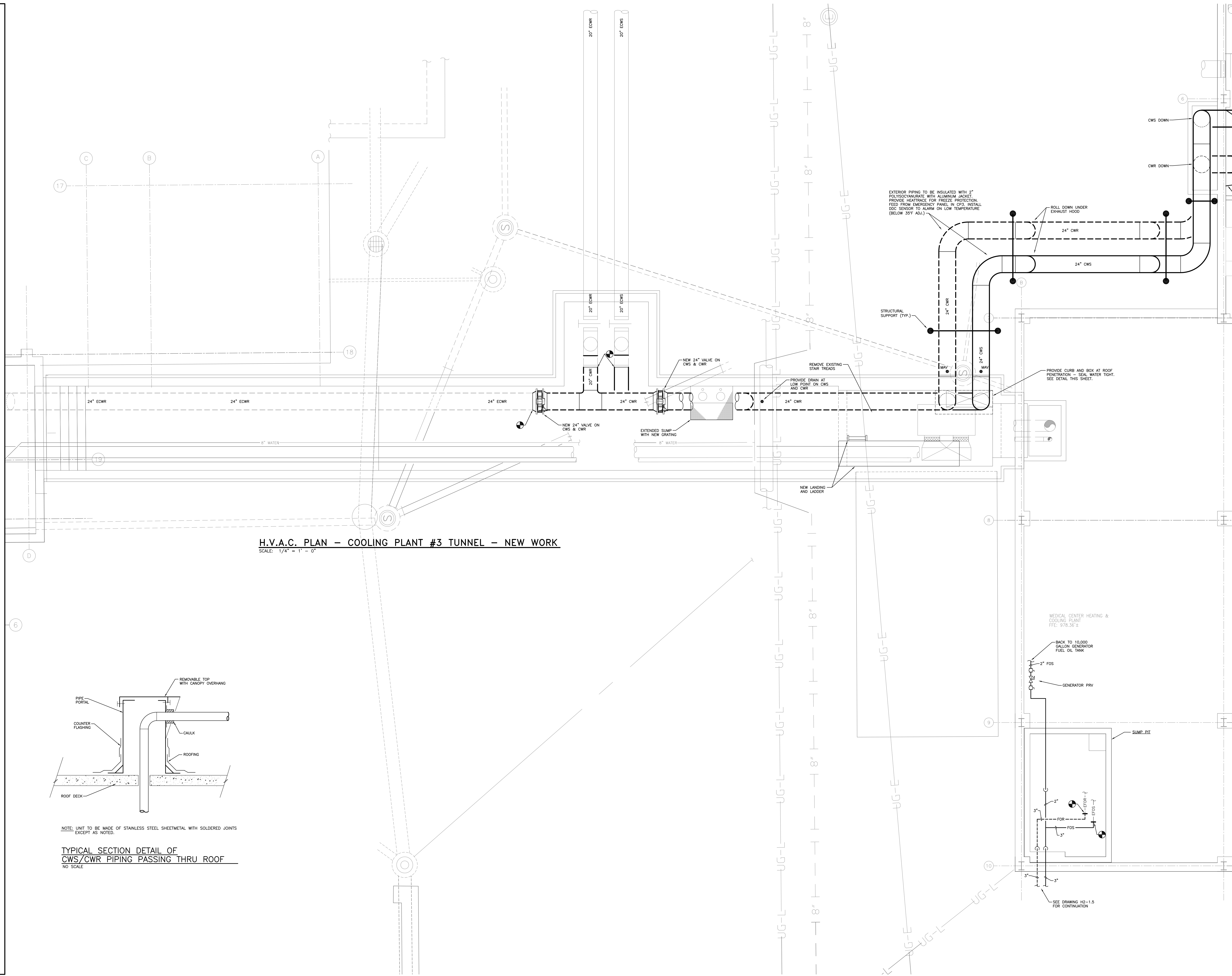
Drawing Title:
**H.V.A.C. PLAN
 COOLING PLANT #3
 TUNNEL
 DEMOLITION**

GBBN Job No:
 10247
 SF File:
 05300
 Scale:
 Date:
 02-15-07

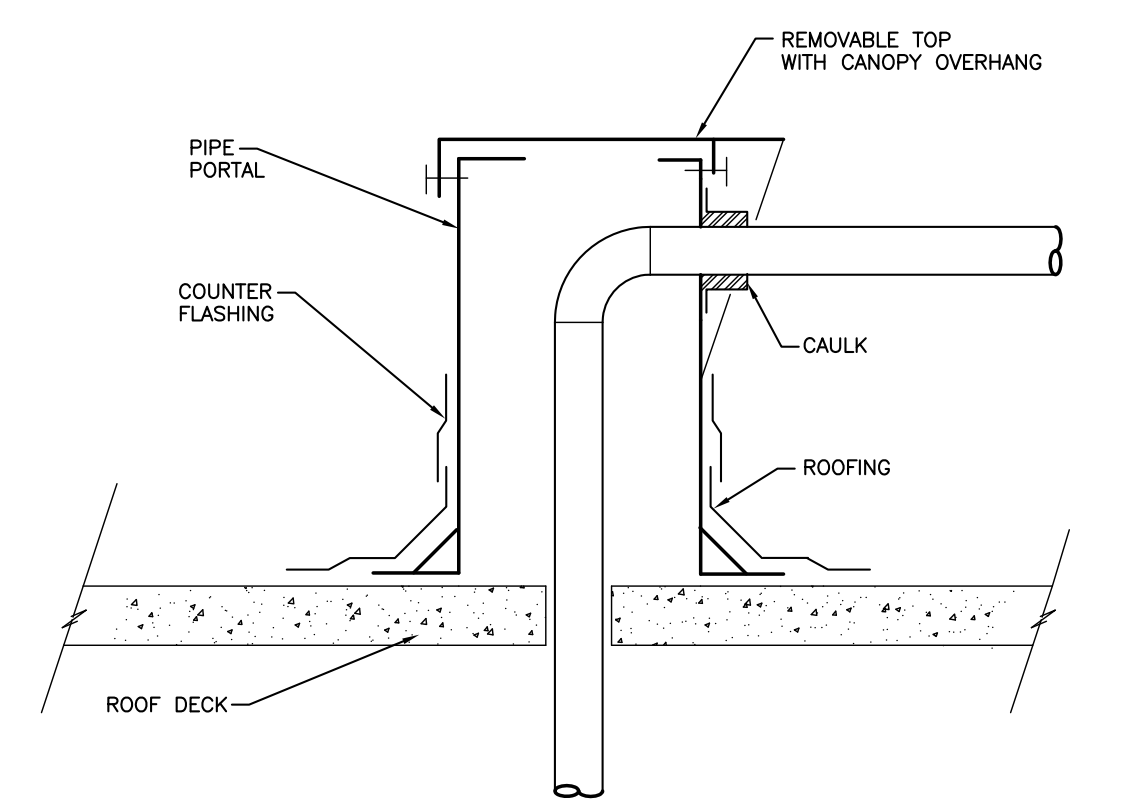


H2-0.2

MADE, IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DISCREPANCIES FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIPS OF THE WORK OF VARIOUS TRADES TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION OF CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES AND SECTIONS ARE SHOWN FOR THE CONTRACTOR'S CONFORMANCE AND SHALL NOT BE CONSIDERED COMPLETE IN ANY DETAIL.




H.V.A.C. PLAN - COOLING PLANT #3 TUNNEL - NEW WORK
 SCALE: 1/4" = 1' - 0"



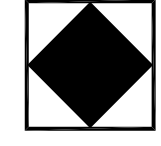
NOTE: UNIT TO BE MADE OF STAINLESS STEEL SHEETMETAL WITH SOLDERED JOINTS EXCEPT AS NOTED.

TYPICAL SECTION DETAIL OF CWS/CWR PIPING PASSING THRU ROOF
 NO SCALE




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AND




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Construct Patient Care Facility
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INFRASTRUCTURE

RECORD DRAWINGS DATE 09/01/2011

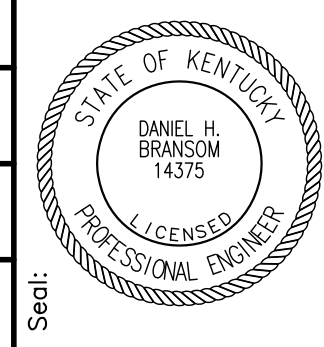
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CONTRACT DOCUMENTS		
No.	Date	Description
1	02-15-07	CONTRACT ISSUE
2	06-07-07	CHILLED WATER PIPING
3	12-18-07	CHILLED WATER BYPASS
4	1-10-08	PROVIDE 24" CW VALVES
5	09-01-11	RECORD DRAWINGS

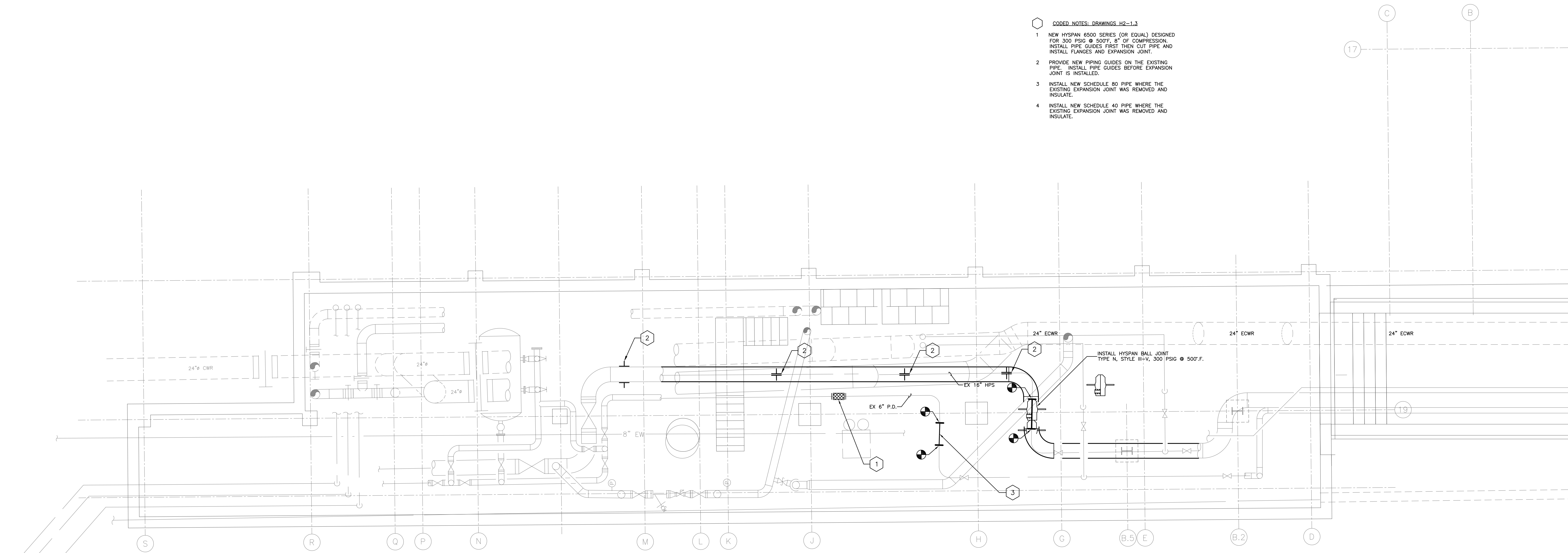
Drawing Title:
H.V.A.C. PLAN COOLING PLANT #3 TUNNEL NEW WORK

GBBN Job No: 10247
 SF File: 05300
 Scale:
 Date: 02-15-07

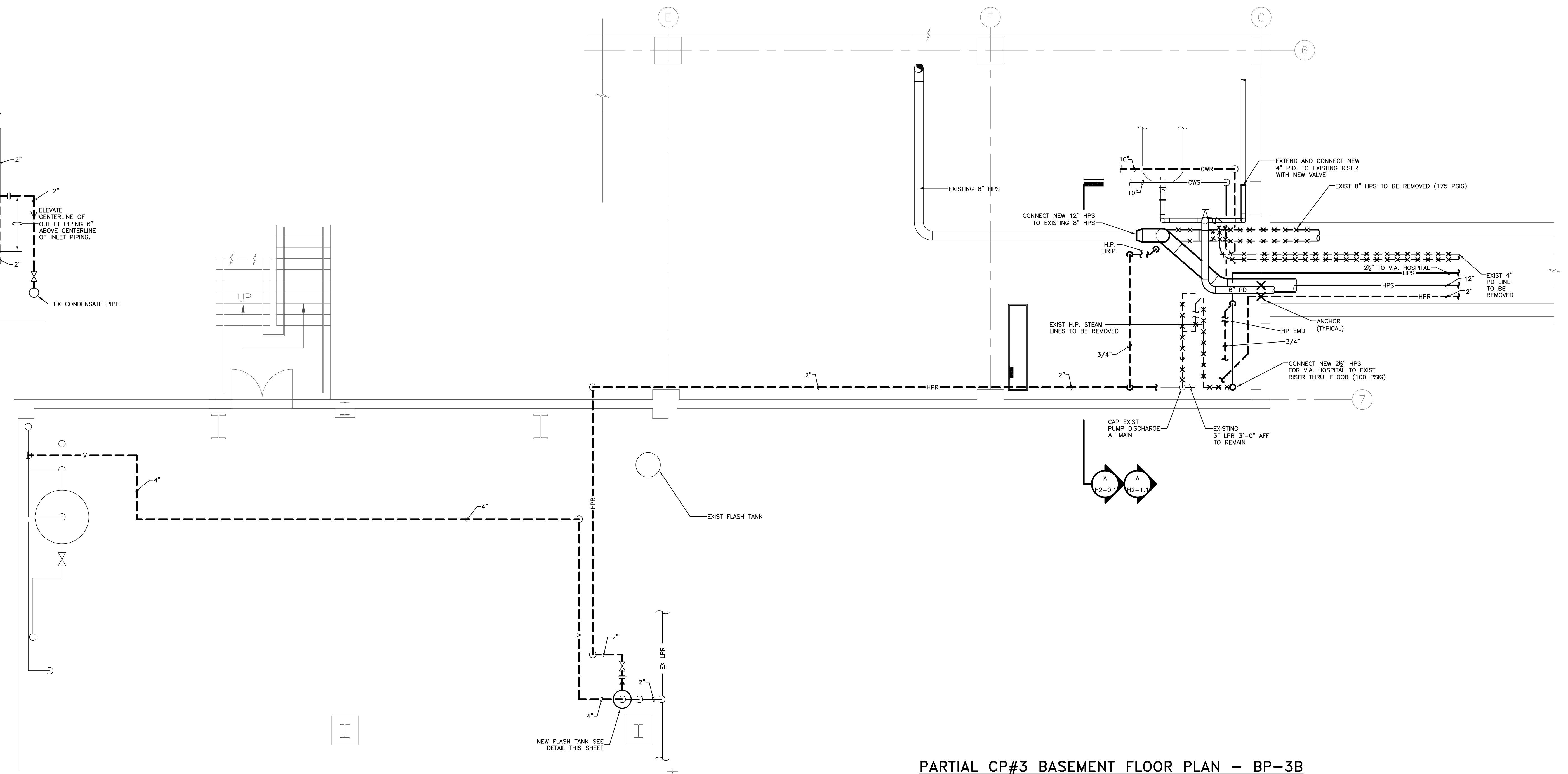
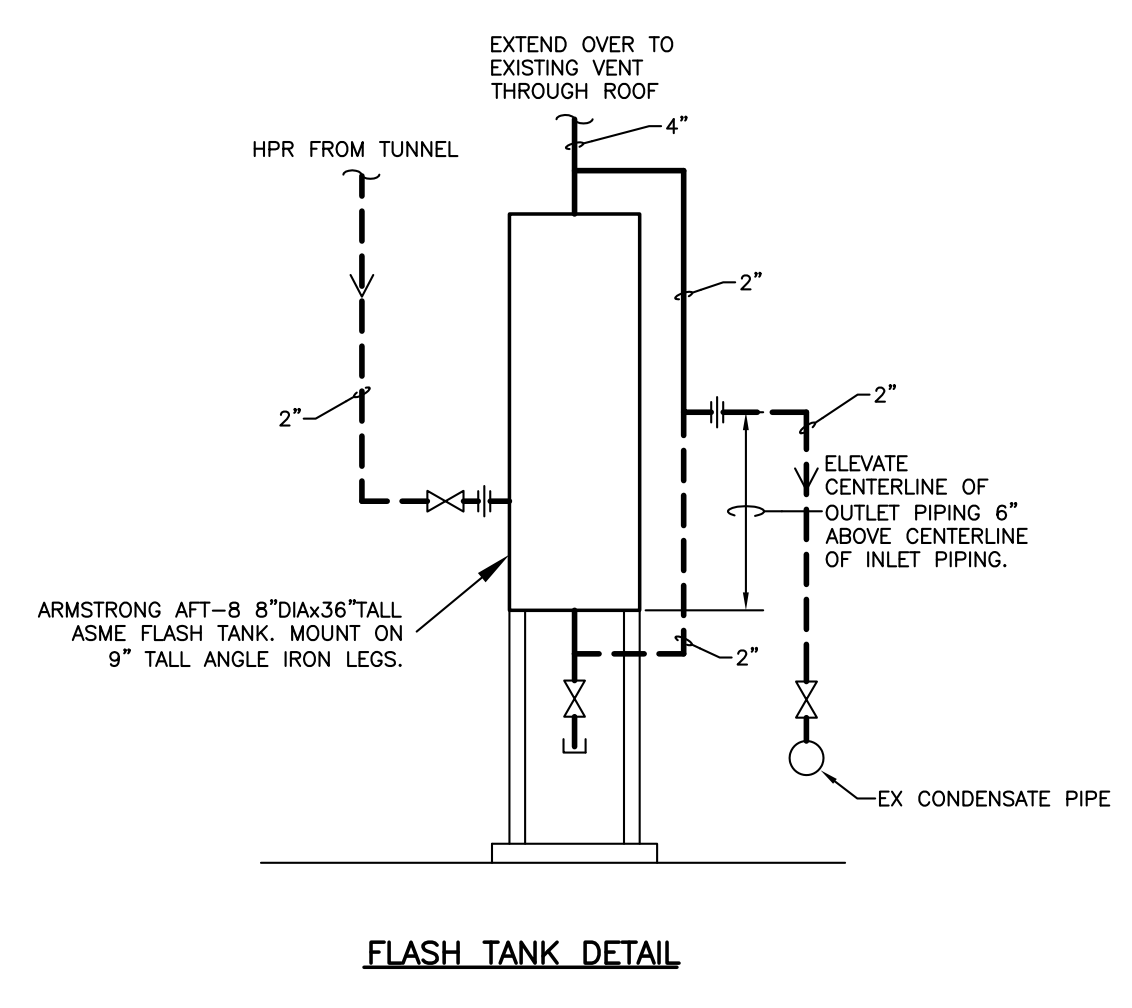


H2-1.2R4

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H.V.A.C. PLAN - PRIMARY CARE SUBBASEMENT - NEW WORK - BP-4
 SCALE: 1/4" = 1' - 0"



PARTIAL CP#3 BASEMENT FLOOR PLAN - BP-3B
 SCALE: 1/4" = 1' - 0"

- CODED NOTES: DRAWINGS H2-1.3
- 1 NEW HYSPAN 6500 SERIES (OR EQUAL) DESIGNED FOR 300 PSIG @ 500°F. 3" OF COMPRESSION. INSTALL PIPE GUIDES FIRST THEN CUT PIPE AND INSTALL FLANGES AND EXPANSION JOINT.
 - 2 PROVIDE NEW PIPING GUIDES ON THE EXISTING PIPE. INSTALL PIPE GUIDES BEFORE EXPANSION JOINT IS INSTALLED.
 - 3 INSTALL NEW SCHEDULE 80 PIPE WHERE THE EXISTING EXPANSION JOINT WAS REMOVED AND INSULATE.
 - 4 INSTALL NEW SCHEDULE 40 PIPE WHERE THE EXISTING EXPANSION JOINT WAS REMOVED AND INSULATE.



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UK
 Construct Patient
 Care Facility
 UK # 2239.3B
 BP - 3B
 INFRASTRUCTURE

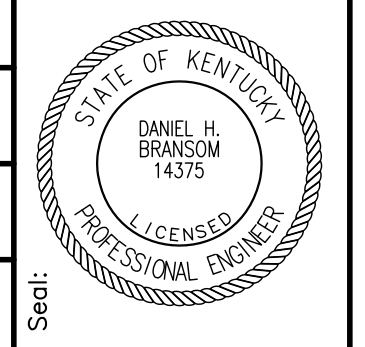
RECORD DRAWINGS
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Drawing Issue:
CONTRACT DOCUMENTS

No.	Date	Description
1	02-15-07	CONTRACT ISSUE
2	08-07-07	ADD FLASH TANK
3	09-01-11	RECORD DRAWINGS

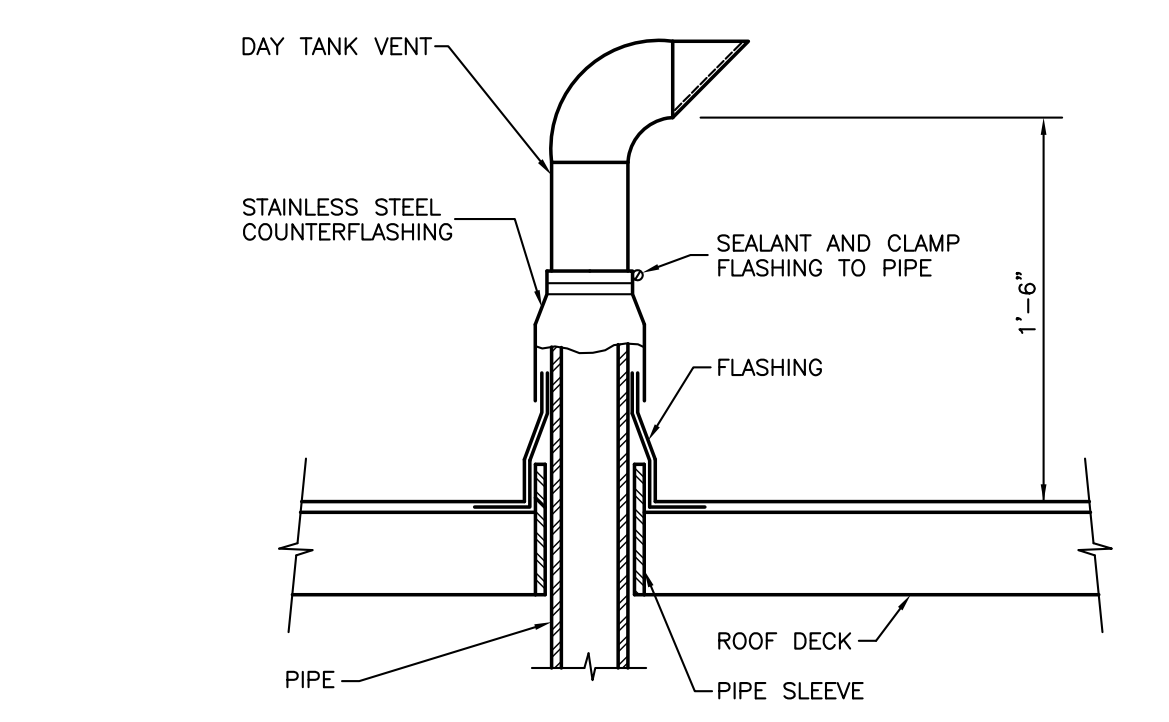
Drawing Title:
**H.V.A.C. PLAN
 PRIMARY CARE
 SUB-BASEMENT
 NEW WORK**

GBBN Job No:
 10247
 SF File:
 05300
 Scale:
 Date:
 02-15-07

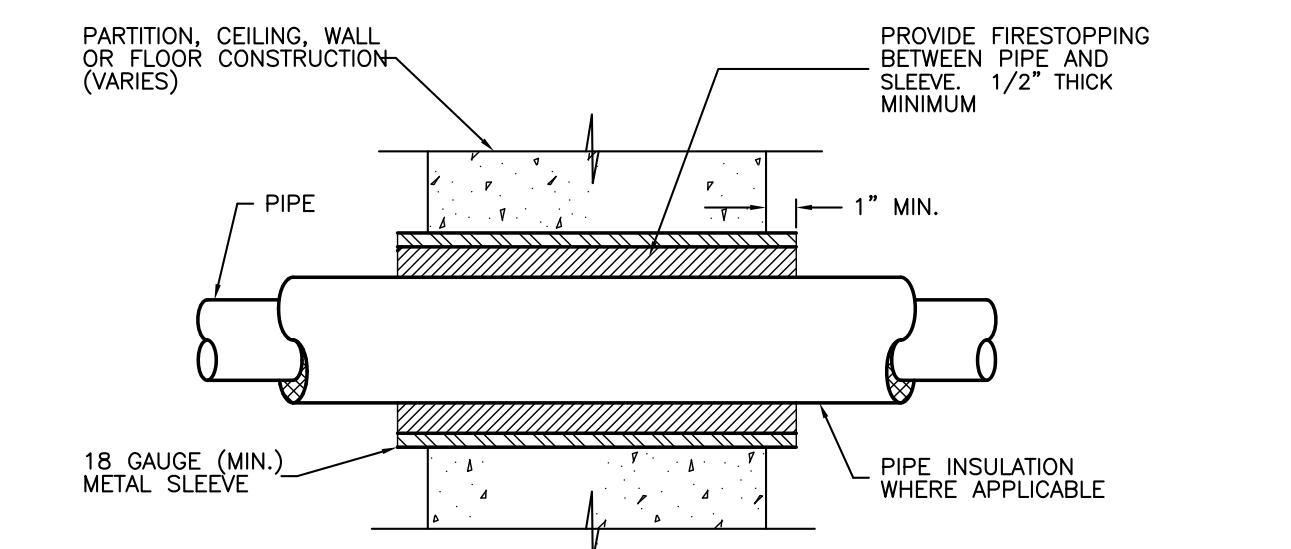


H2-1.3

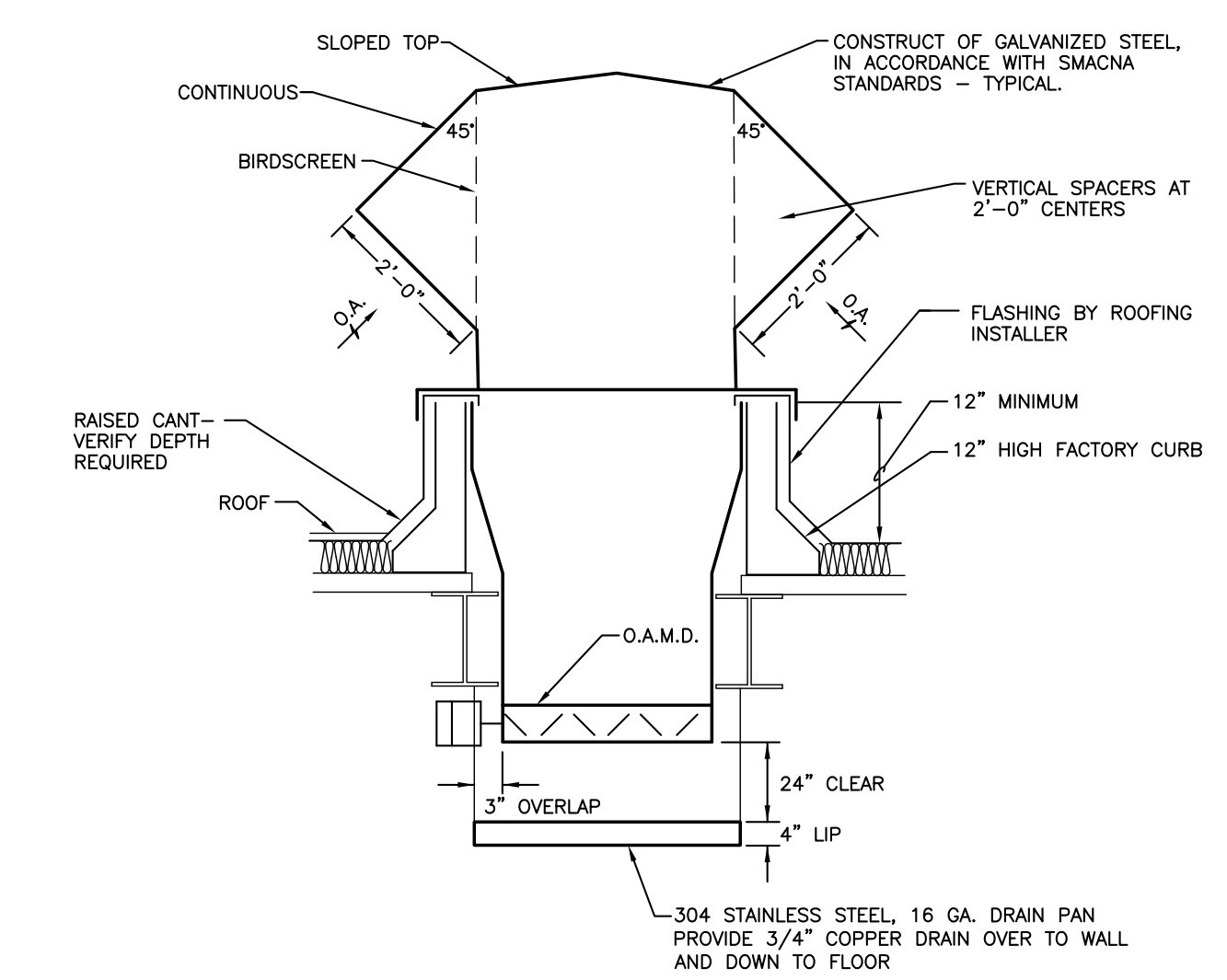
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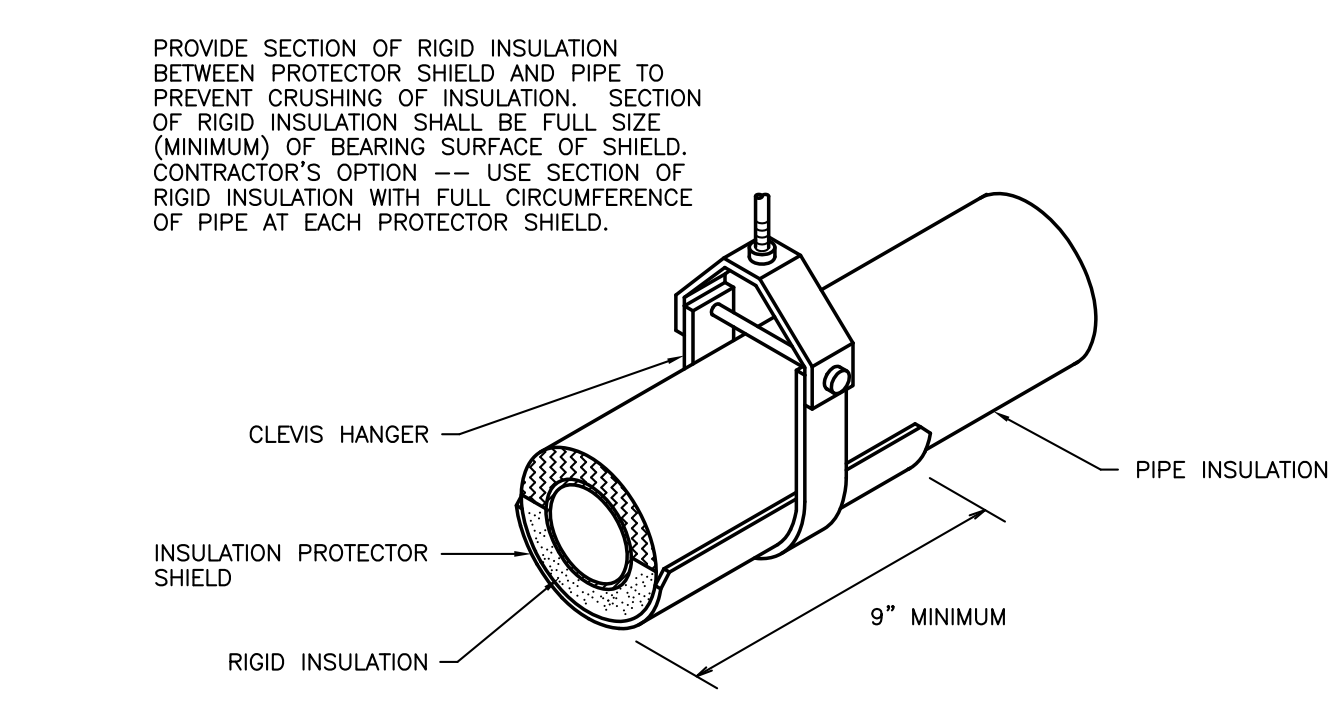
1 DETAIL OF PIPE PENETRATION THRU ROOF
M-2 NO SCALE



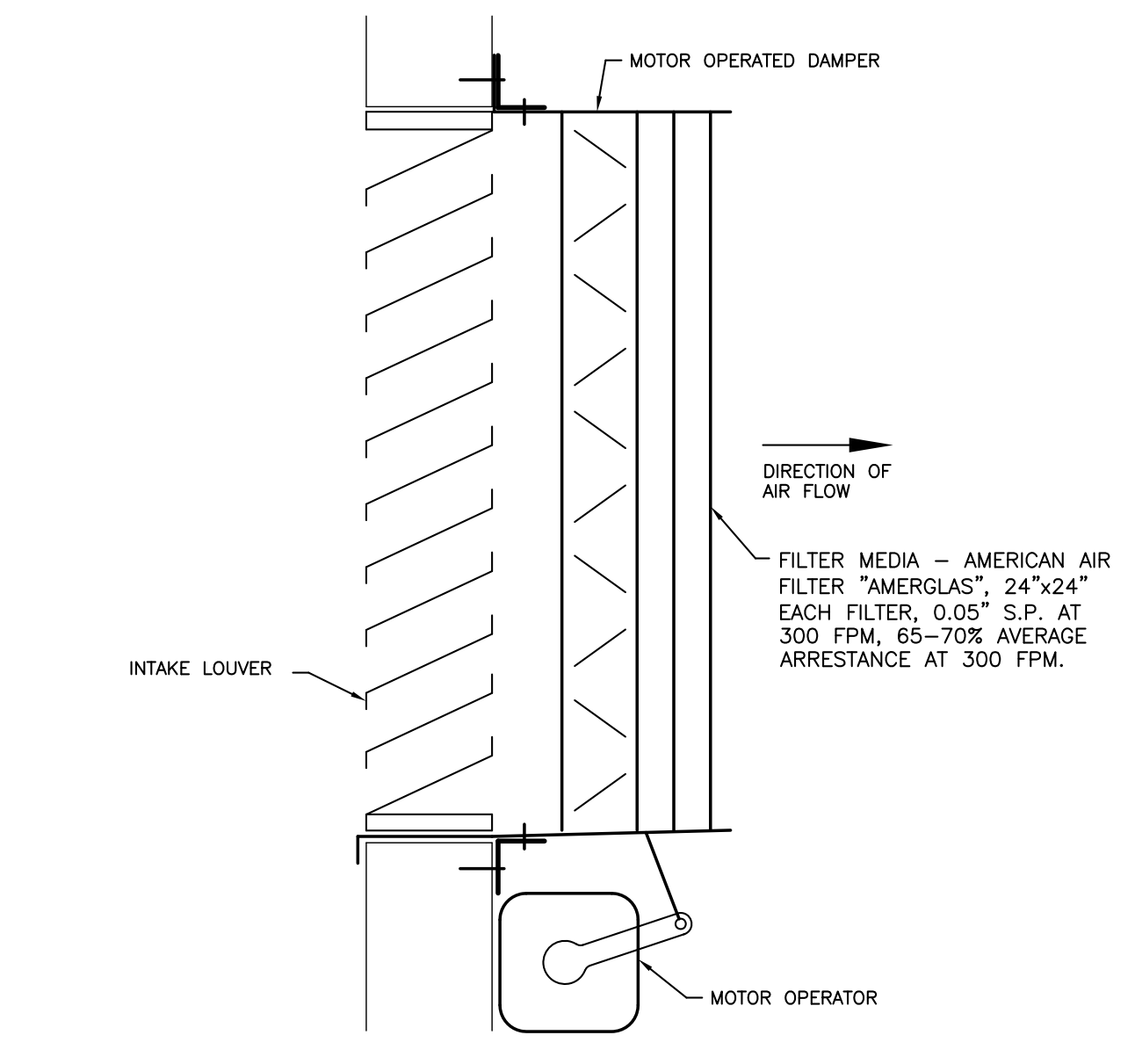
2 TYPICAL FIRESTOPPING DETAIL FOR PIPING
M-2 NO SCALE



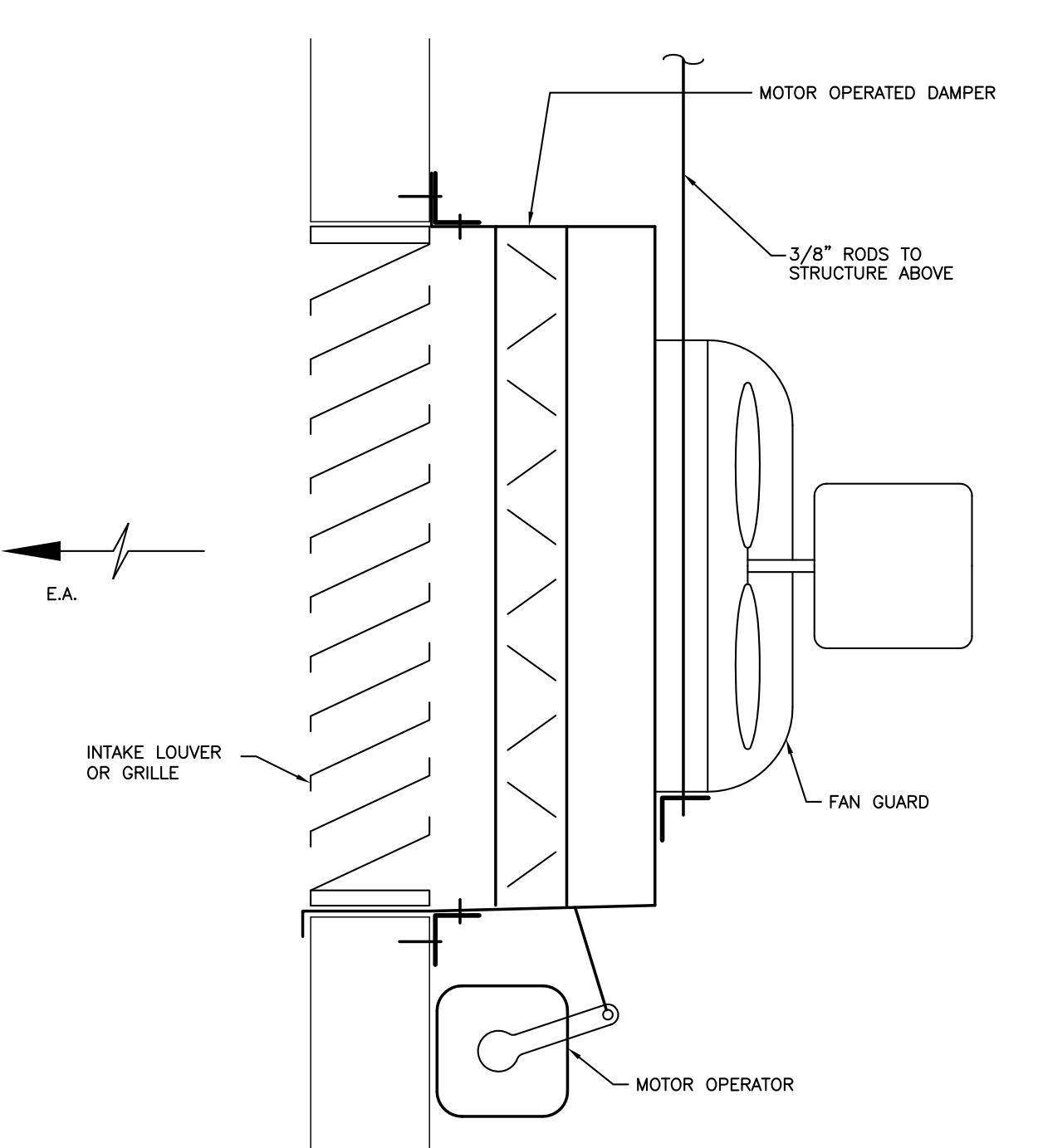
3 ROOF AIR INTAKE INSTALLATION DETAIL
M-2 NO SCALE



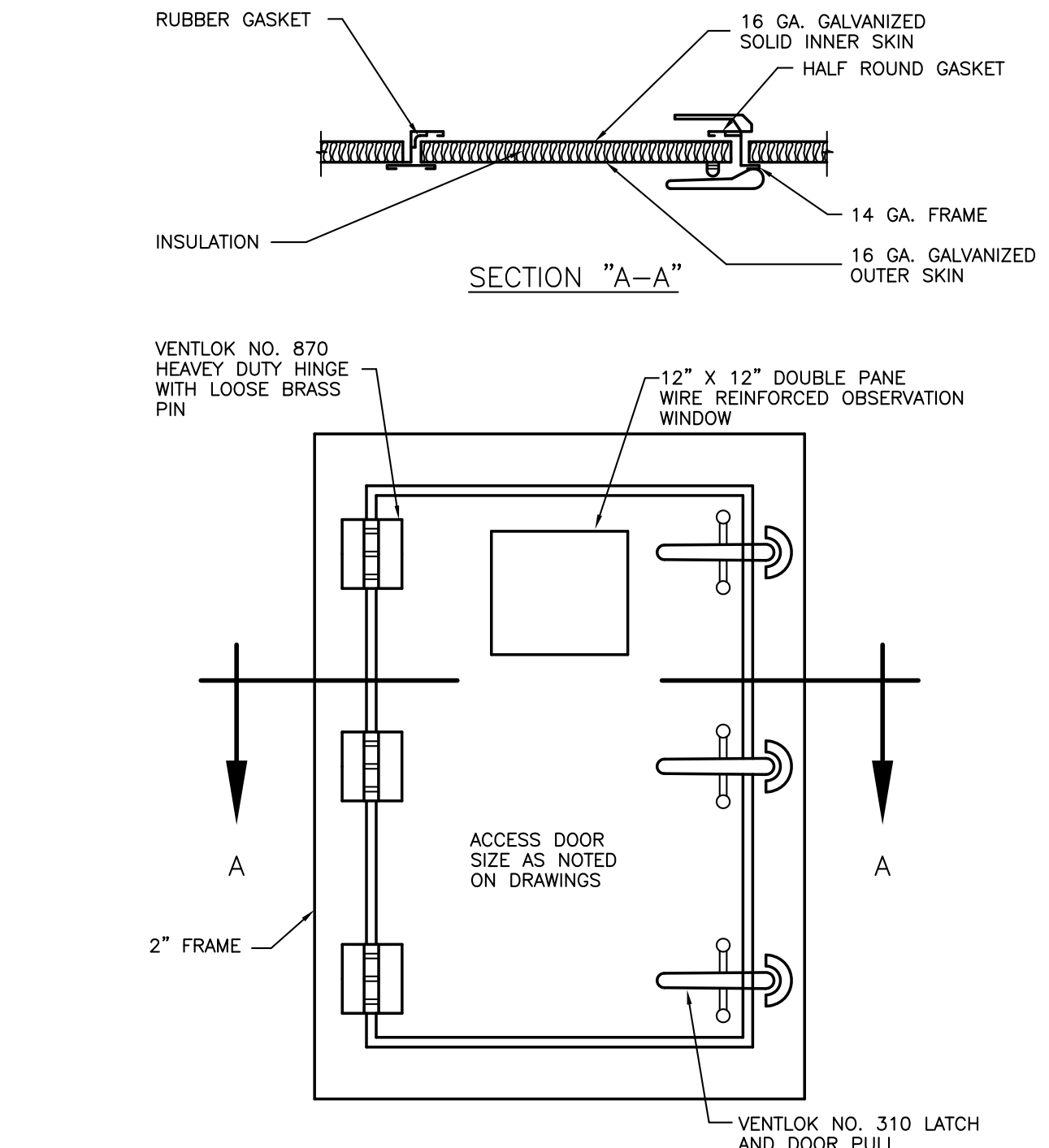
4 TYP. PIPE SUPPORT DETAIL WITH SHIELD
M-2 NO SCALE



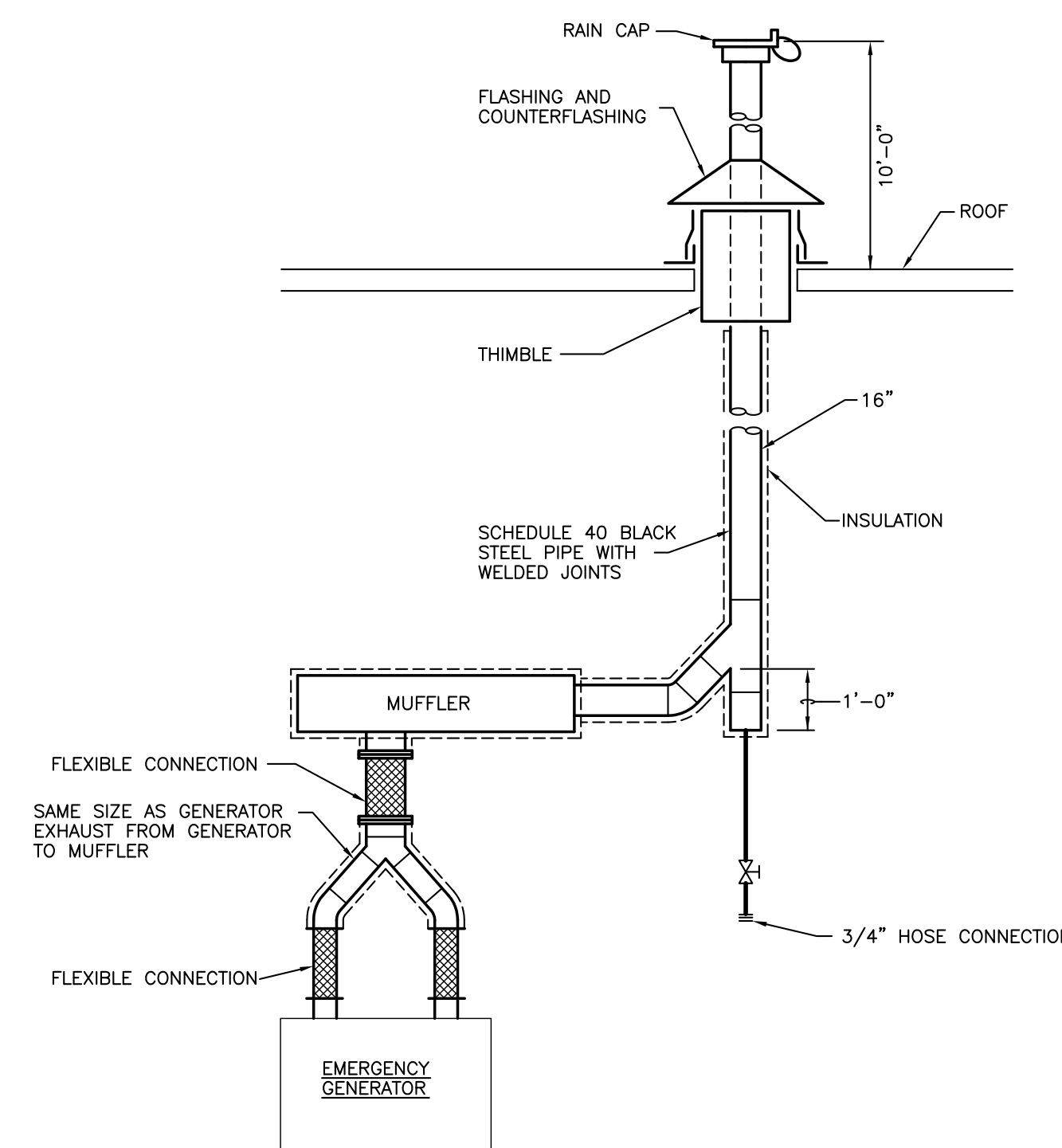
5 FILTERED INTAKE MOUNTING DETAIL
M-2 NO SCALE



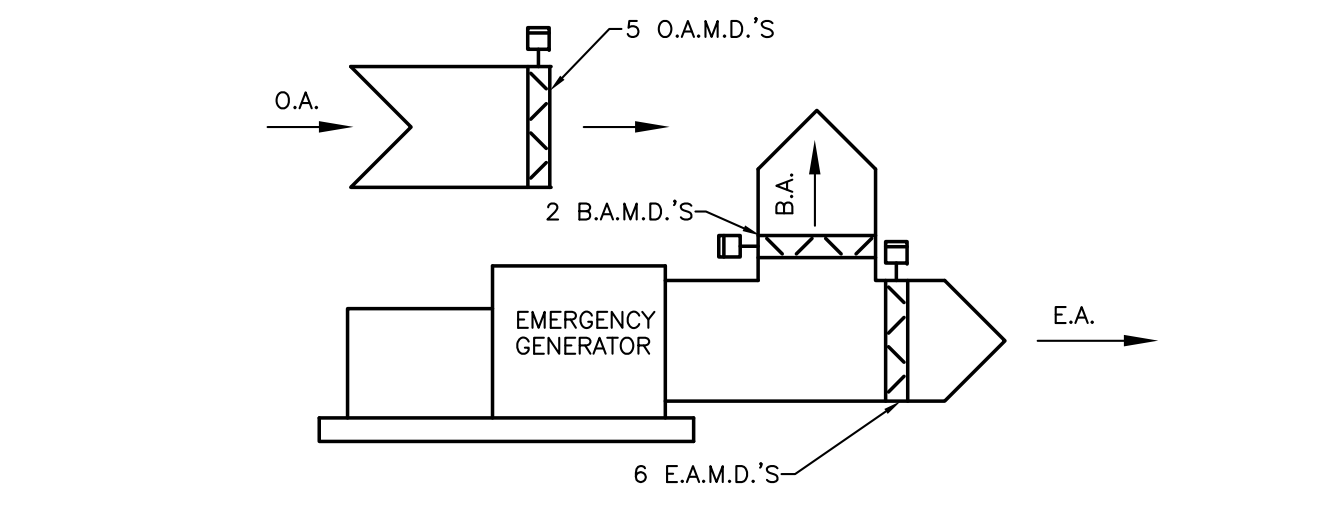
6 EXHAUST FAN MOUNTING DETAIL
M-2 NO SCALE



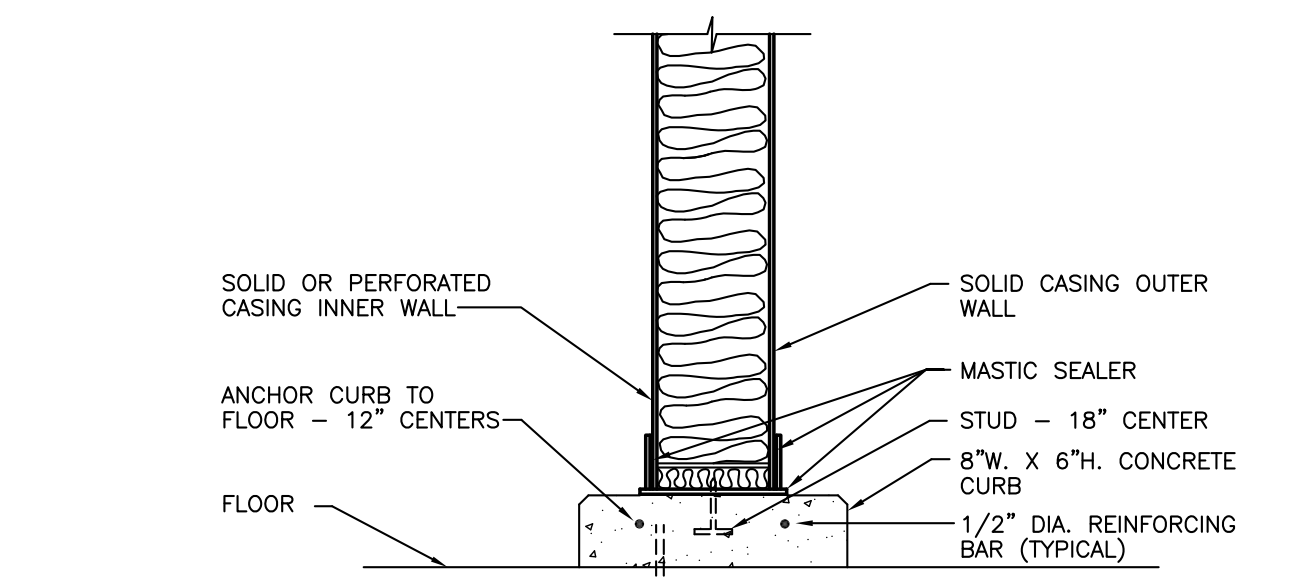
7 ACCESS DOOR DETAIL
M-2 NO SCALE



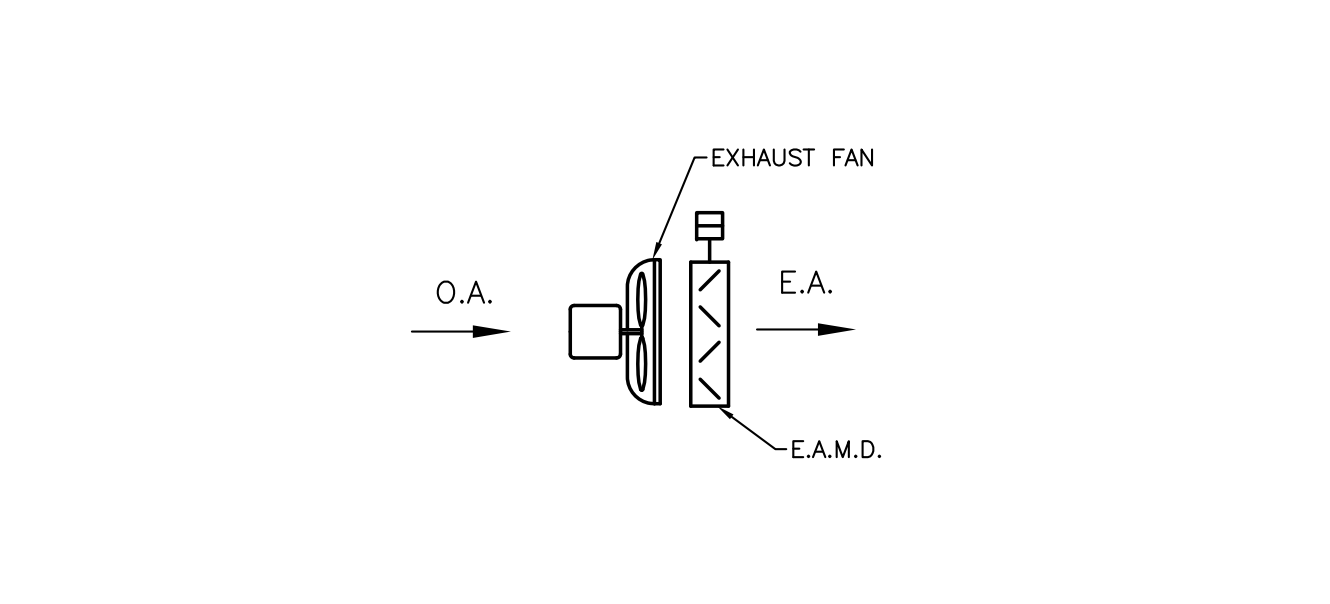
8 EMERGENCY GENERATOR EXHAUST PIPING DIAGRAM
M-2 NO SCALE



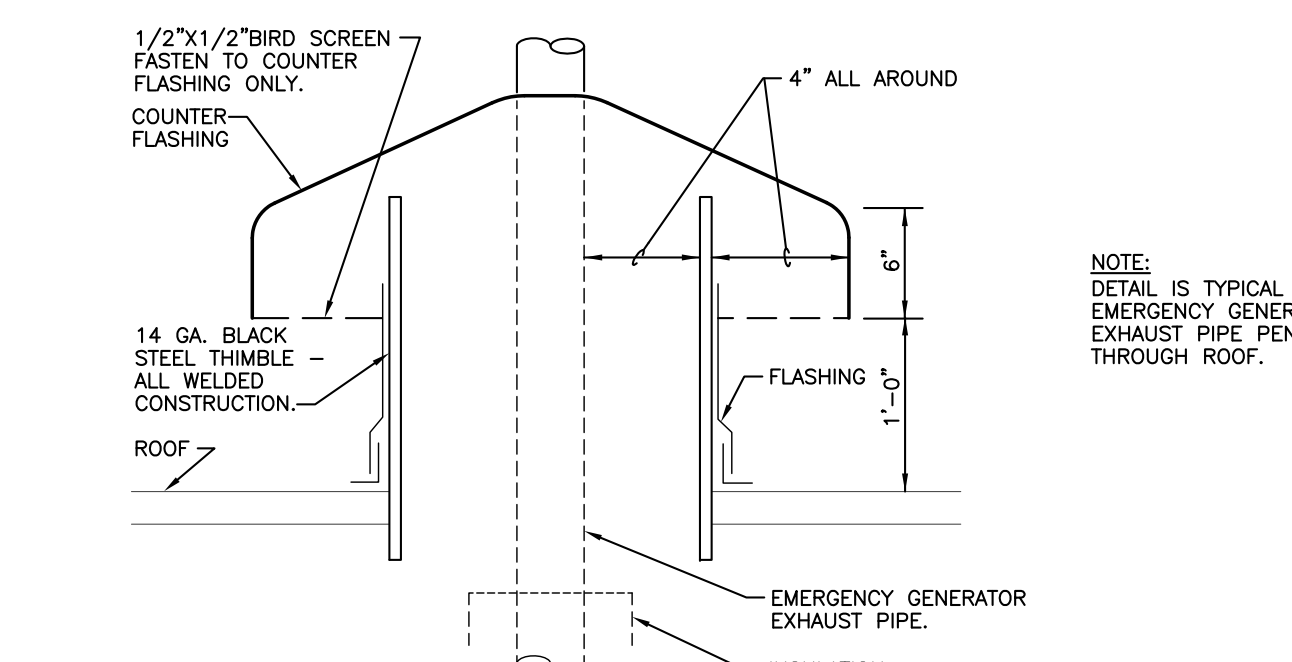
9 CONTROL DIAGRAM - EMERGENCY VENTILATION SYSTEM
M-2 NO SCALE



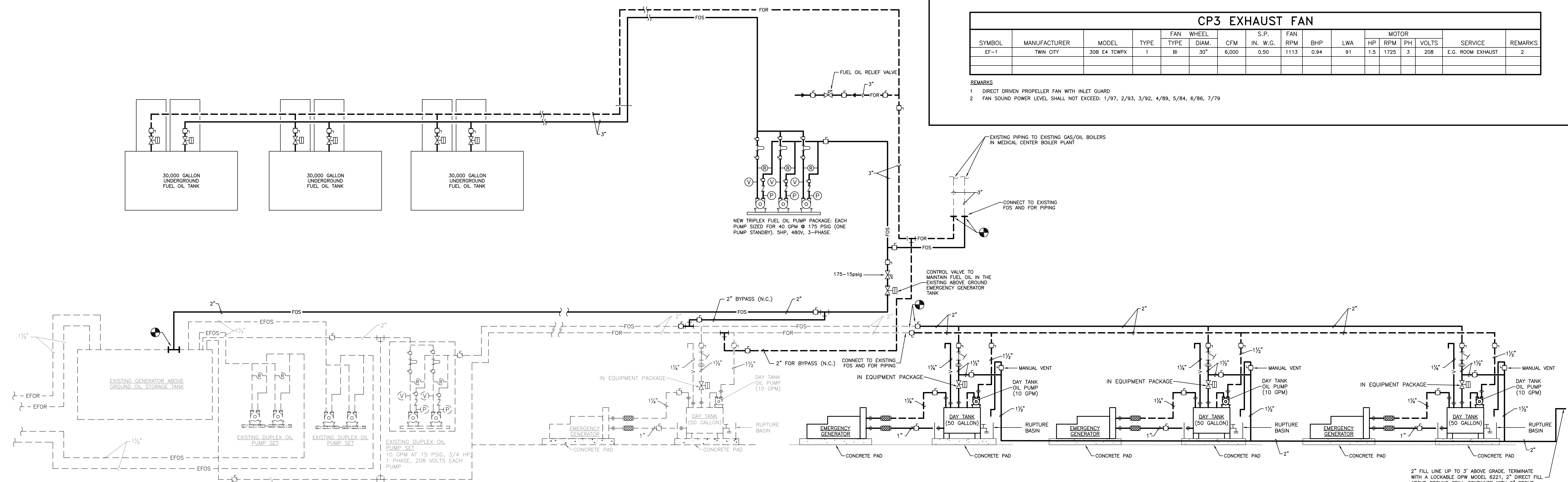
11 FAN PLENUM CASING CURB DETAIL
M-2 NO SCALE



10 CONTROL DIAGRAM - EQUIP. RM. VENTILATION SYSTEM
M-2 NO SCALE



12 ROOF THIMBLE DETAIL
M-2 NO SCALE



16 FUEL OIL PIPING SCHEMATIC
M-2 NO SCALE

CP3 EXHAUST FAN																
SYMBOL	MANUFACTURER	MODEL	TYPE	FAN WHEEL		S.P.	FAN	BHP	LWA	MOTOR			SERVICE	REMARKS		
				TYPE	DIAM.					IN.	W.G.	RPM			PH	VOLTS
EF-1	TWIN CITY	308 E4 TOWPK	1	BI	30"	6,000	0.50	1113	0.94	91	1.5	1725	3	208	E.G. ROOM EXHAUST	2

REMARKS
 1 DIRECT DRIVEN PROPELLER FAN WITH INLET GUARD
 2 FAN SOUND POWER LEVEL SHALL NOT EXCEED: 1/97, 2/93, 3/92, 4/89, 5/84, 6/86, 7/79

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 AND
ELLERBE BECKETT

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 1344 Louisa Street
 Lexington, Kentucky 40507
 (606) 271-3244

UK
 Construct Patient
 Care Facility
 UK # 2239.3B
 BP - 3B
 INFRASTRUCTURE

RECORD DRAWINGS DATE 09/01/2011

These record drawings have been prepared, in part, on the basis of information compiled and furnished by others. The Engineer has not verified the accuracy and/or completeness of this information and incorporated as a result of erroneous information provided by others.

STAGGS & FISHER CONSULTING ENGINEERS, INC.

Drawing Issue:

No.	Date	Description
1	02-15-07	CONTRACT ISSUE
2	09-01-11	RECORD DRAWINGS

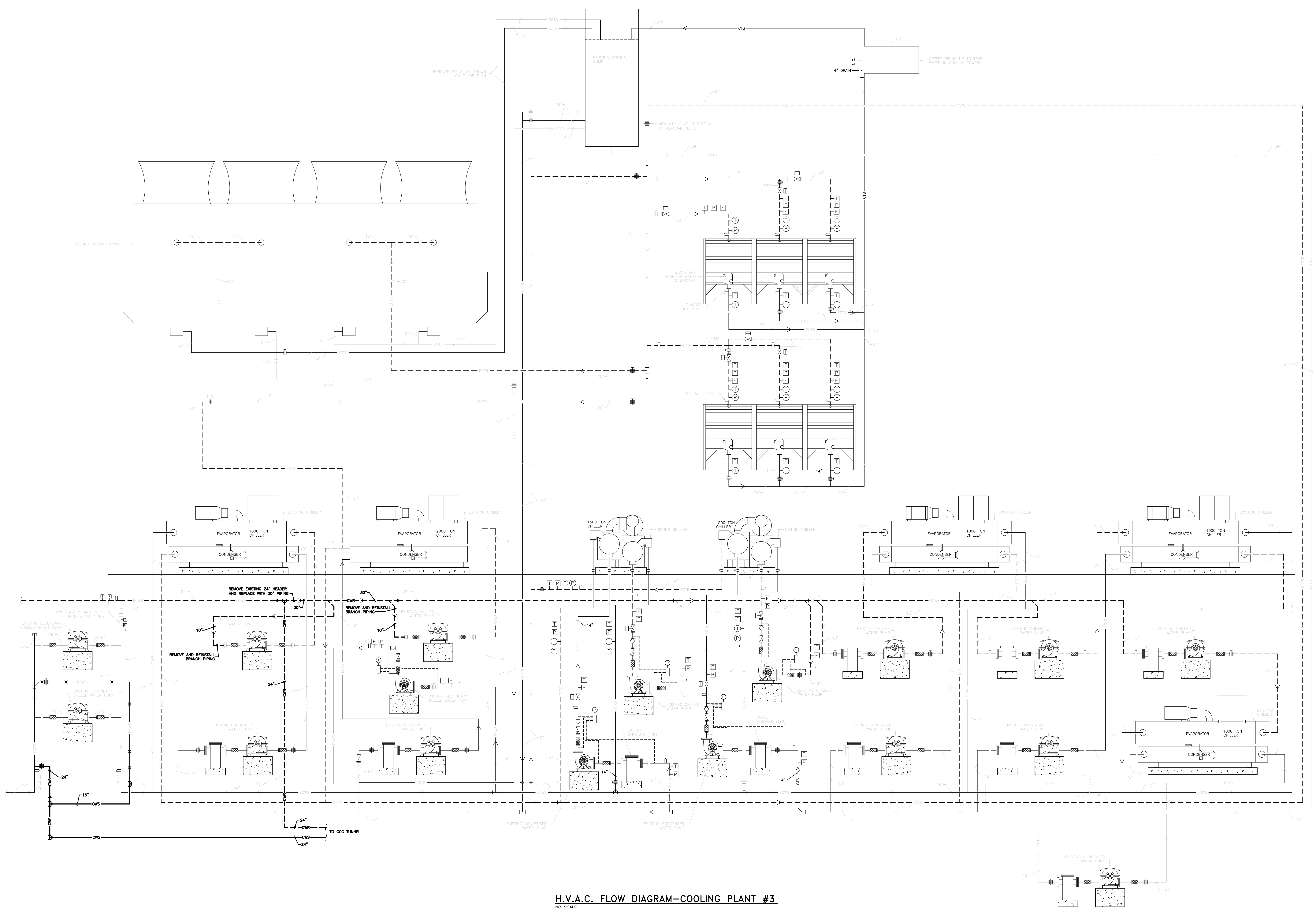
Drawing Title:

H.V.A.C. GEN. SCHED. AND DETAILS

GBBN Job No: 10247
 SF File: 05300
 Scale:
 Date: 02-15-07
 Shp:

H2-1.6

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H.V.A.C. FLOW DIAGRAM—COOLING PLANT #3
NO SCALE



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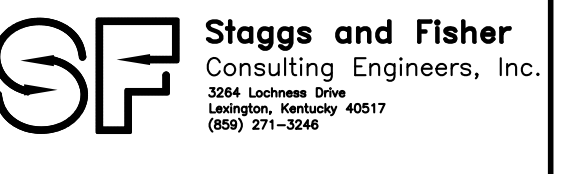
IN ASSOCIATION WITH



AND
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CONSULTANT



**Construct Patient
Care Facility**
 UK # 2239.3B
BP - 3B
INFRASTRUCTURE

RECORD DRAWINGS DATE 09/01/2011
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Drawing Issue:

CONTRACT DOCUMENTS

No.	Date	Description
1	02-15-07	CONTRACT ISSUE
2	09-01-11	RECORD DRAWINGS

Drawing Title:
**H.V.A.C. FLOW
DIAGRAM
COOLING PLANT #3
NEW WORK**

GBBN Job No: 10247
 SF File: 05300
 Scale:
 Date: 02-15-07

