

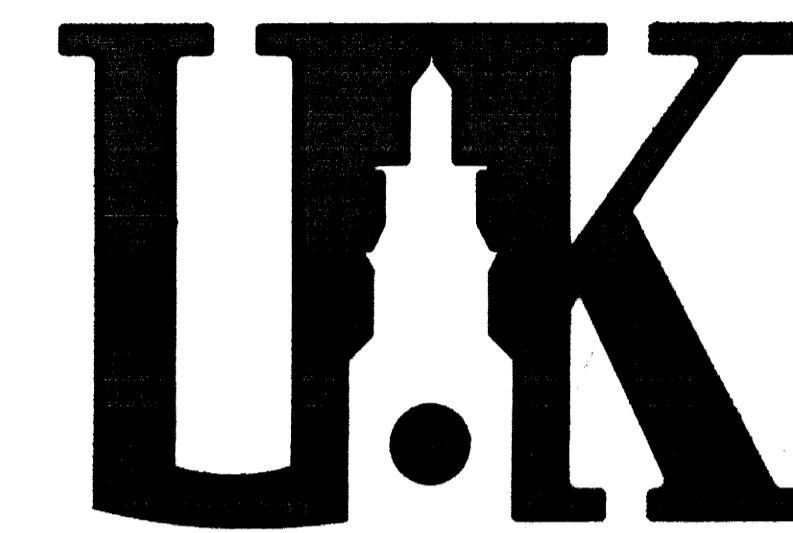
UTILITY UPGRADE - PHASE 1

UNIVERSITY OF KENTUCKY

LEXINGTON,

KENTUCKY

UK PROJECT NO. 1949.0



CHRISMAN - MILLER - WOODFORD

ARCHITECTURE ENGINEERING LANDSCAPE ARCHITECTURE INTERIOR DESIGN
400 E. VINE STREET, SUITE 400 LEXINGTON, KENTUCKY 40507

STAGGS & FISHER CONSULTING ENGINEERS, INC.

MECHANICAL AND ELECTRICAL

BROWN & KUBICAN, PSC

STRUCTURAL

CONSTRUCTION DOCUMENT SUBMITTAL

CMW

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CMW	ARCHITECTURE STRUCTURAL CIVIL LANDSCAPE ARCHITECTURE INTERIOR DESIGN
STAGGS & FISHER CONSULTING ENGINEERS, INC.	MECHANICAL ELECTRICAL
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RECORD DRAWINGS DATE 11/20/2003

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CMW, INC.

UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY

PROJECT NUMBER
99024.02

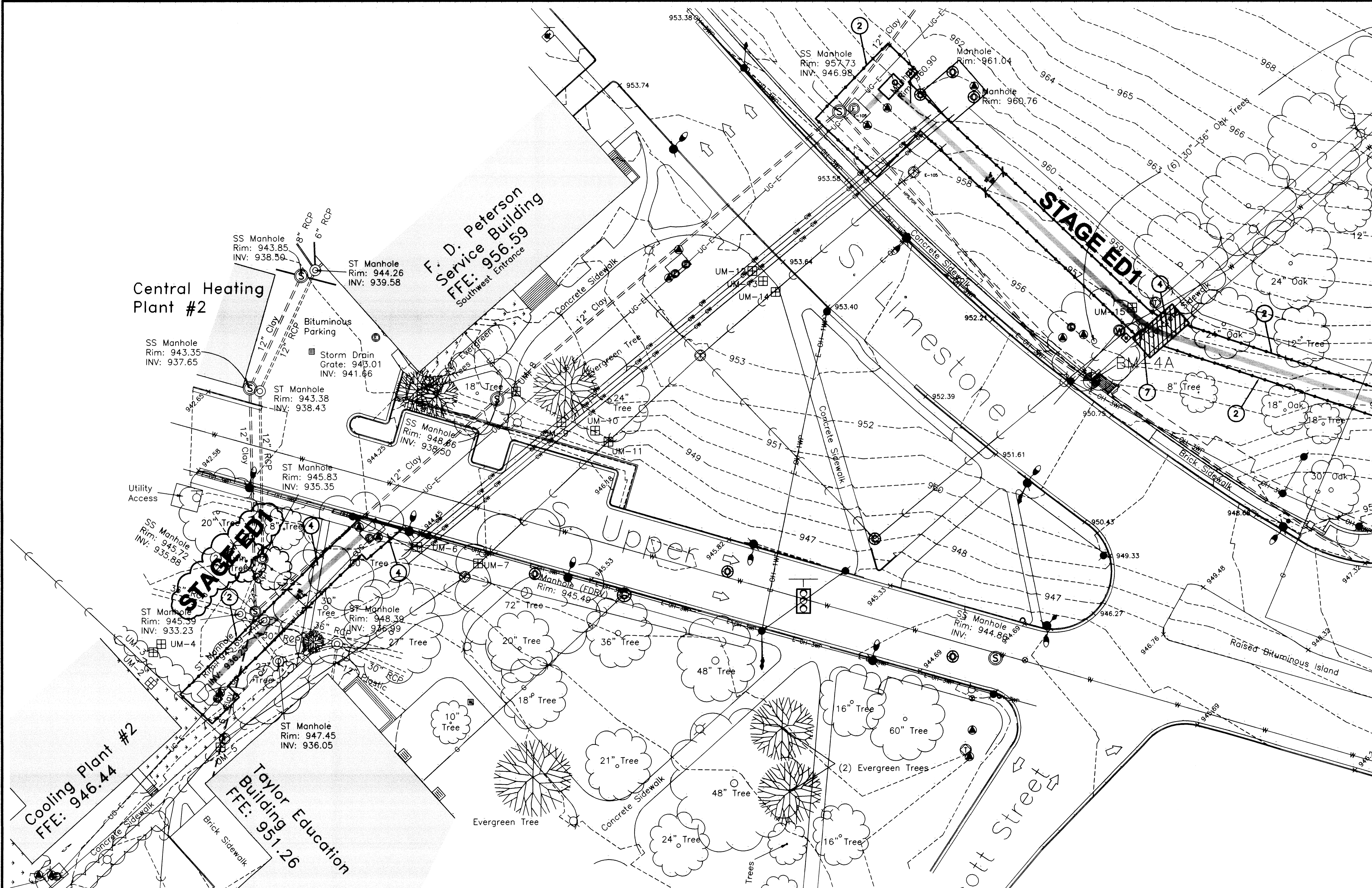
DATE
DECEMBER, 2000

SET NUMBER

174

8104 Document 25454

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GENERAL NOTES

DUCTBANK WORK SHALL BE PERFORMED IN STAGES AS INDICATED. REFER TO THE SPECIAL CONDITIONS.
 STAGE NUMBERING IS CODED TO IDENTIFY THE WORK AS FOLLOWS: "ED" REFERS TO ELECTRICAL DUCTBANK, "CD" REFERS TO COMMUNICATION DUCTBANK.
 DEMOLISH ASPHALT OR CONCRETE PAVEMENT AND CURBS AS NEEDED FOR CONSTRUCTION, AND REPLACE TO ORIGINAL CONDITION.
 REMOVE TREES AND SHRUBS AS NEEDED FOR CONSTRUCTION, AND REPLACE REMOVED PLANTS TO ORIGINAL CONDITION.
 MAKE REQUIRED APPLICATIONS AND COORDINATE WITH THE APPROPRIATE AUTHORITY THE INSTALLATION OF CONCRETE BARRICADES TO PICK UP ONE LANE OF THE EAST SIDE OF LIMESTONE STREET AS SHOWN.
 THE CONSTRUCTION STAGE NOTES ARE A MASTER LIST OF ITEMS, AND AS SUCH SOME TIMES ARE NOT APPLICABLE TO SOME SHEETS.
 ALL DISTURBED AREAS SHALL BE PUT BACK TO THEIR ORIGINAL CONDITION AT COMPLETION OF STAGE OF WORK.

CONSTRUCTION FENCE SHALL BE THE LIMIT OF CONSTRUCTION, MATERIAL SHALL NOT BE STORED OUTSIDE CONSTRUCTION LIMITS. ACCESS TO STAGE AREAS SHALL BE ESTABLISHED WITH OWNERS REPRESENTATIVE PRIOR TO WORK.
 STORAGE OF MATERIAL WITHIN CONSTRUCTION LIMITS SHALL NOT OCCUR WITHIN DRIP LINE OF TREES.

CONSTRUCTION - STAGE NOTES

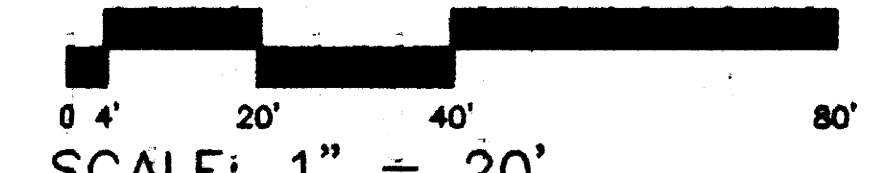
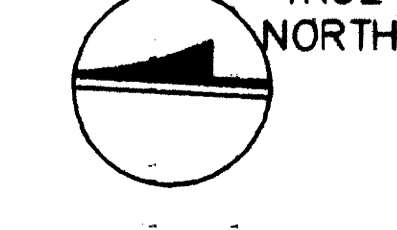
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2. INSTALL CONSTRUCTION FENCE AS SHOWN. FENCE SHALL BE 6'-0" CHAIN LINK.
3. ONE LANE OF ADMINISTRATION DRIVE MUST REMAIN OPEN AT ALL TIMES.
4. DEMO CONCRETE SIDEWALK.
5. DEMO ASPHALT STREET.
6. CONCRETE BARRICADE.
7. BUILD TEMPORARY PEDESTRIAN BRIDGE TO OSHA AND ADA STANDARDS. CONTRACTOR SHALL SUBMIT BRIDGE DESIGN AND CALCULATION WITH THE SHEET OF PREPARED ENGINEER FOR REVIEW.
8. INSTALL TEMPORARY CONCRETE SIDEWALK. TEMPORARY SIDEWALK SHALL BE 5'-0" WIDE X 4" THICK. NO BASE IS PREFERRED TO MINIMIZE DAMAGE TO EXISTING PLANTS.
9. INSTALL TEMPORARY CONCRETE SIDEWALKS RAMP IN CROSS.
10. MAINTAIN EXISTING GROUND INSULATION.
11. ALL WORK IN LIMESTONE STREET AND COPPER DRIVE SHALL BE DONE BETWEEN 8 PM AND 6 AM.
12. DUCTBANK TRENCH AT STREET INTERSECTIONS: EXCAVATE STREET INTERSECTION BETWEEN 8 PM AND 6 AM. INSTALL STEEL PLATE DURING THE DAY. MAINTAIN ONE LANE OF ACCESS AT ALL TIMES FOR EMERGENCY VEHICLE ACCESS.
13. ALL WORK AT STAGE CD1 SHALL BE DONE BETWEEN 8 PM AND 6 AM. CONSTRUCTION ACCESS FOR CD1 SHALL BE FROM HILTOP AVENUE.
14. CONSTRUCTION STAGING AREA: PRESERVE EXISTING TREES IN AREA, AND RESTORE TO ORIGINAL CONDITION.
15. TWO LANES OF HOSPITAL DRIVE MUST REMAIN OPEN AT ALL TIMES. USE THE GRASSED AREA TO THE EAST SIDE OF HOSPITAL DRIVE FOR THIS PURPOSE. RESTORE GRASSED AREA TO ORIGINAL CONDITION.
16. NEW CONCRETE SIDEWALK SHALL BE EXTENDED TO BACK OF CURB. (TURF AREA SHALL BE REMOVED) IN ADDITION TO REPLACING EXISTING SIDEWALK.
17. REPLACE EXISTING BRICK PATTERN WITH CONCRETE SLAB.
18. WIDTH OF CONSTRUCTION LIMITS IN THIS AREA SHALL NOT EXCEED THE FIRST LANE OF TRAFFIC.
19. CONTRACTOR TO INSTALL TEMPORARY GUIDE WIRE TO POWER POLE FOR SUPPORT PRIOR TO EXCAVATING FOR TRENCH.

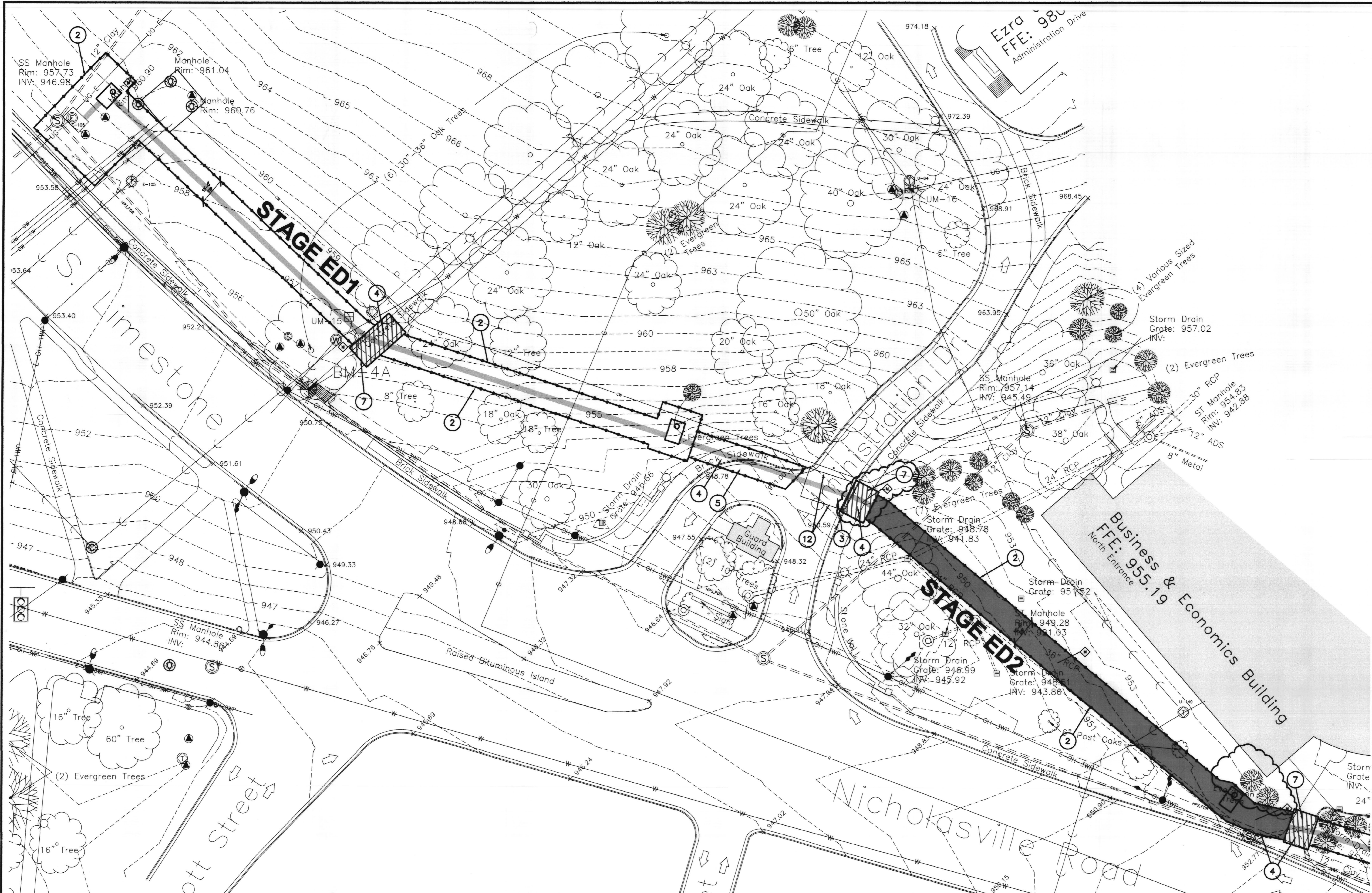
20. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENGINEER AND CONSTRUCT A SOIL STABILIZATION / UNDERPINNING SYSTEM BELOW THE EXISTING STONE WALL DURING EXCAVATION AND CONSTRUCTION OF THE UTILITY DUCT BANK. EXISTING STONE WALL SHALL NOT BE DEMOLISHED OR DISTURBED DURING SAND CONSTRUCTION. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR ANY REPAIRS REQUIRED FOR STONE WALL ARISING FROM CONSTRUCTION OF PROJECT AS DICTATED BY AND SUBJECT TO APPROVAL OF OWNER.
21. REMOVE BOTH DRIVEWAY CURB CUTS AND REPLACE WITH STANDARD CURB AND WALK.
22. SIDEWALK ALONG EAST SIDE OF LIMESTONE BETWEEN VIRGINIA AVE. AND WASHINGTON AVE. SHALL BE CLOSED DURING STAGE ED3 CONSTRUCTION.

RECORD DRAWINGS DATE 11/20/2003

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GENERAL NOTES

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REMOVE TREES AND SHRUBS AS NEEDED FOR CONSTRUCTION, AND REPLACE REMOVED PLANTS TO ORIGINAL CONDITION.

MAKE REQUIRED APPLICATIONS AND COORDINATE WITH THE APPROPRIATE AUTHORITY THE INSTALLATION OF CONCRETE BARRICADES TO PICK UP ONE LANE OF THE EAST SIDE OF LIMESTONE STREET AS SHOWN.

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CONSTRUCTION - STAGE NOTES

1. CONVERT NORTH TURN LANE INTO NORTH TRAFFIC LANE.
2. INSTALL CONSTRUCTION FENCE AS SHOWN. FENCE SHALL BE 6'-0" CHAIN LINK.
3. ONE LANE OF ADMINISTRATION DRIVE MUST REMAIN OPEN AT ALL TIMES.
4. DEMO CONCRETE SIDEWALK.
5. DEMO ASPHALT STREET.
6. CONCRETE BARRICADE
7. BUILD TEMPORARY PEDESTRIAN BRIDGE TO OSHA AND ADA STANDARDS. CONTRACTOR SHALL SUBMIT BRIDGE DESIGN AND CALCULATION WITH THIS SET OF PLANS TO A REGISTERED ENGINEER FOR REVIEW.
8. INSTALL TEMPORARY CONCRETE SIDEWALK. TEMPORARY SIDEWALK SHALL BE 5'-0" WIDE X 4" THICK. NO BASE IS PREFERRED TO MINIMIZE DAMAGE TO EXISTING PLANTS.
9. INSTALL PERMANENT CONCRETE ADA ACCESS RAMP IN CURB.
10. MAINTAIN EXISTING GROUND INSULATION.
11. ALL WORK IN LIMESTONE STREET AND COPPER DRIVE SHALL BE DONE BETWEEN 8 PM AND 6 AM.
12. DUCTBANK TRENCH AT STREET INTERSECTIONS: EXCAVATE STREET INTERSECTION BETWEEN 8 PM AND 6 AM. INSTALL STEEL PLATE DURING THE DAY. MAINTAIN ONE LANE OF ACCESS AT ALL TIMES FOR EMERGENCY VEHICLE ACCESS.
13. ALL WORK AT STAGE CD1 SHALL BE DONE BETWEEN 8 PM AND 6 AM. CONSTRUCTION ACCESS FOR CD1 SHALL BE FROM HILLTOP AVENUE.
14. CONSTRUCTION STAGING AREA: PRESERVE EXISTING TREES IN AREA, AND RESTORE TO ORIGINAL CONDITION.
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21. REMOVE BOTH DRIVEWAY CURB CUTS AND REPLACE WITH STANDARD CURBS AND WALK.
22. SIDEWALK ALONG EAST SIDE OF LIMESTONE BETWEEN VIRGINIA AVE. AND WASHINGTON AVE. SHALL BE CLOSED DURING STAGE ED2 CONSTRUCTION.

RECORD DRAWINGS DATE 11/20/2003

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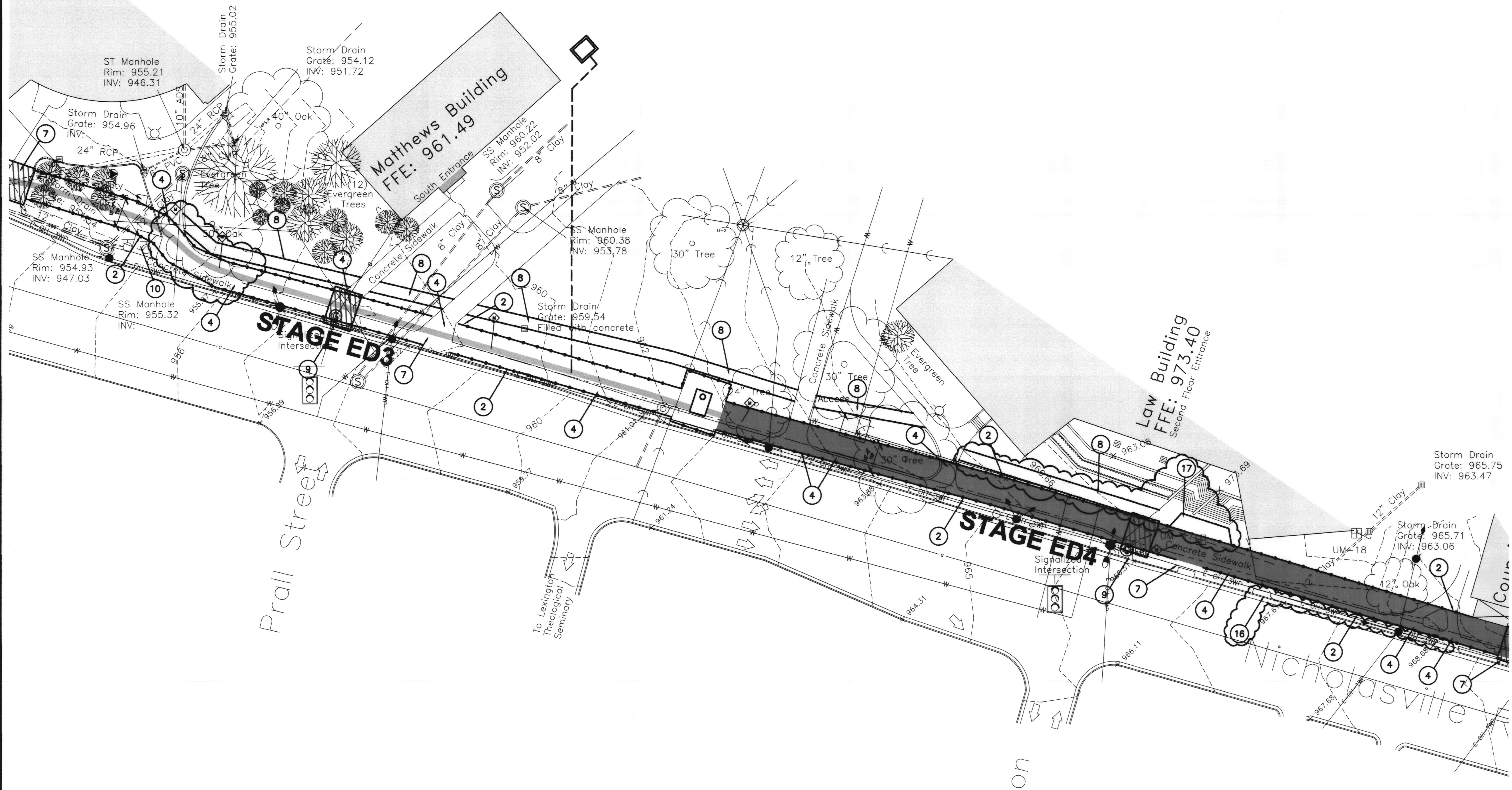
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SCALE: 1" = 20'



PROJECT STAGING PLAN
 UTILITY UPGRADE - PHASE 1
 UNIVERSITY OF KENTUCKY
 LEXINGTON, KENTUCKY



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CONSTRUCTION - STAGE NOTES

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5. DEMO ASPHALT STREET.
6. CONCRETE BARRICADE
7. BUILD TEMPORARY PEDESTRIAN BRIDGE TO OSHA AND ADA STANDARDS. CONTRACTOR SHALL SUBMIT BRIDGE DESIGN AND CALCULATION WITH THE OSHA BY A REGISTERED ENGINEER FOR REVIEW.
8. INSTALL TEMPORARY CONCRETE SIDEWALK. TEMPORARY SIDEWALK SHALL BE 5'-0" WIDE X 4" THICK. NO BASE IS PREFERRED TO MINIMIZE DAMAGE TO EXISTING PLANTS.
9. INSTALL REINFORCED CONCRETE ADA ACCESS RAMP IN CURB.
10. MAINTAIN EXISTING GROUND INSULATION.

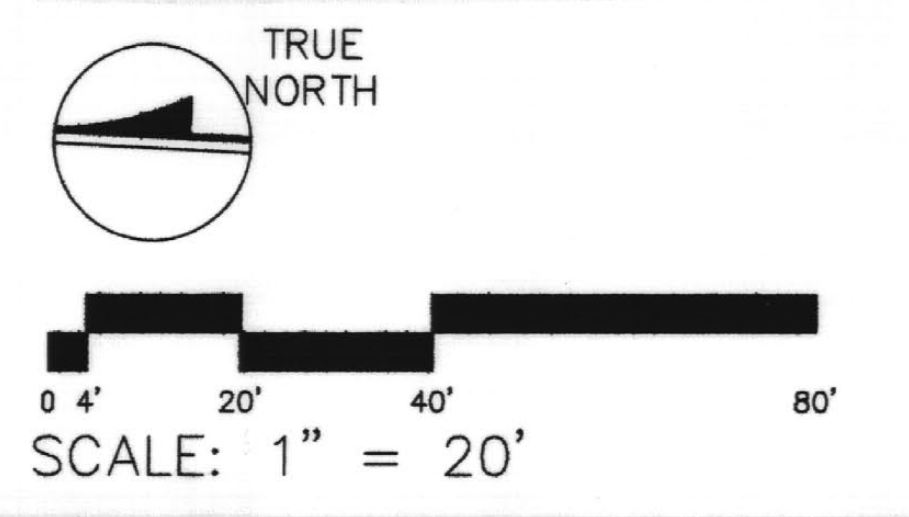
11. ALL WORK IN LIMESTONE STREET AND COPPER DRIVE SHALL BE DONE BETWEEN 8 PM AND 6 AM.
12. DUCTBANK TRENCH AT STREET INTERSECTIONS: EXCAVATE STREET INTERSECTION BETWEEN 8 PM AND 6 AM. INSTALL STEEL PLATE DURING THE DAY. MAINTAIN ONE LANE OF ACCESS AT ALL TIMES FOR EMERGENCY VEHICLE ACCESS.
13. ALL WORK AT STAGE CD1 SHALL BE DONE BETWEEN 8 PM AND 6 AM. CONSTRUCTION ACCESS FOR CD1 SHALL BE FROM HILLTOP AVENUE.
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22. SIDEWALK ALONG EAST SIDE OF LIMESTONE BETWEEN VIRGINIA AVE. AND WASHINGTON AVE. SHALL BE CLOSED DURING STAGE ED5 CONSTRUCTION.

RECORD DRAWINGS DATE 11/20/2003

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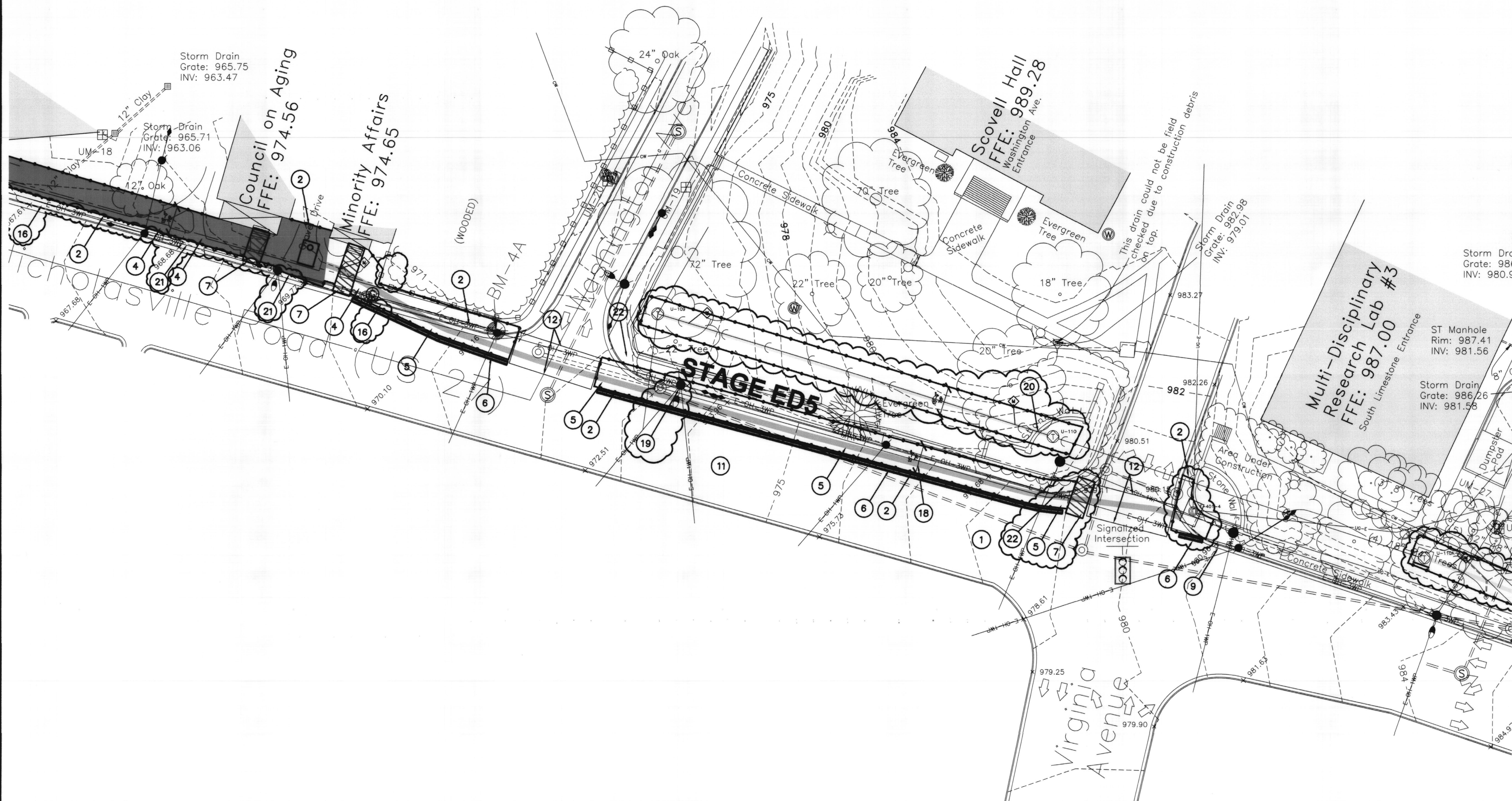


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PROJECT STAGING PLAN
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHT.	PROJECT TITLE
DATE:	DECEMBER 2000
DRAWN BY:	MAW
CHECKED BY:	JAB
REVISION:	
DATE:	
DATE:	
DATE:	
SHEET NUMBER:	0.2
PROJECT NUMBER:	99024.02
DATE:	
DATE:	
DATE:	



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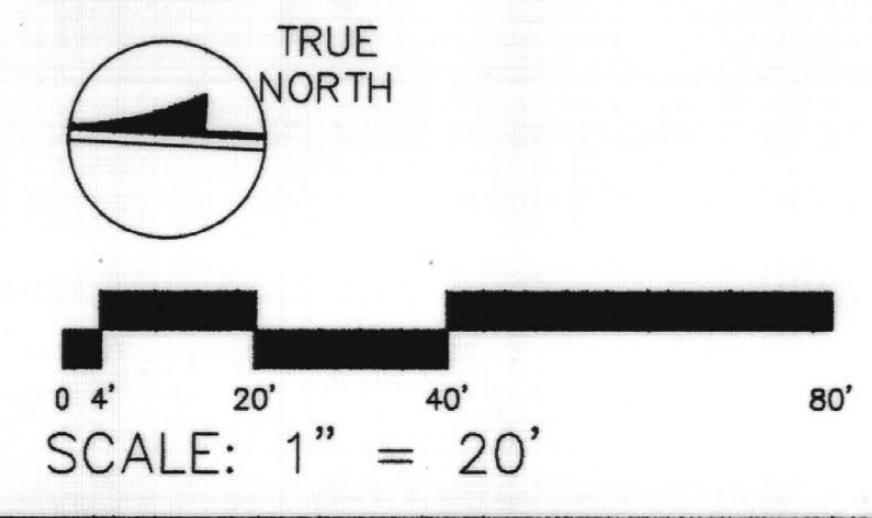
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7. BUILD TEMPORARY PEDESTRIAN BRIDGE TO OSHA AND ADA STANDARDS. CONTRACTOR SHALL SUBMIT BRIDGE DESIGN AND CALCULATION WITH THE PROPOSED CONSTRUCTION PLAN TO THE OWNER.
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10. MAINTAIN EXISTING GROUND INSULATION.
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13. ALL WORK AT STAGE CD1 SHALL BE DONE BETWEEN 8 PM AND 6 AM. CONSTRUCTION ACCESS FOR CD1 SHALL BE FROM HILLTOP AVENUE.
14. CONSTRUCTION STAGING AREA: PRESERVE EXISTING TREES IN AREA, AND RESTORE TO ORIGINAL CONDITION.
15. TWO LANES OF HOSPITAL DRIVE MUST REMAIN OPEN AT ALL TIMES. USE THE GRASSED AREA TO THE EAST SIDE OF HOSPITAL DRIVE FOR THIS PURPOSE. RESTORE GRASSED AREA TO ORIGINAL CONDITION.
16. NEW CONCRETE SIDEWALK SHALL BE EXTENDED TO BACK OF CURB. (TURF AREA SHALL BE REMOVED) IN ADDITION TO REPLACING EXISTING SIDEWALK.
17. REPLACE EXISTING BRICK PATTERN WITH CONCRETE SLAB.
18. WIDTH OF CONSTRUCTION LIMITS IN THIS AREA SHALL NOT EXCEED THE FIRST LANE OF TRAFFIC.
19. CONTRACTOR TO INSTALL TEMPORARY GUIDE WIRE TO POWER POLE FOR SUPPORT PRIOR TO EXCAVATING FOR TRENCH.

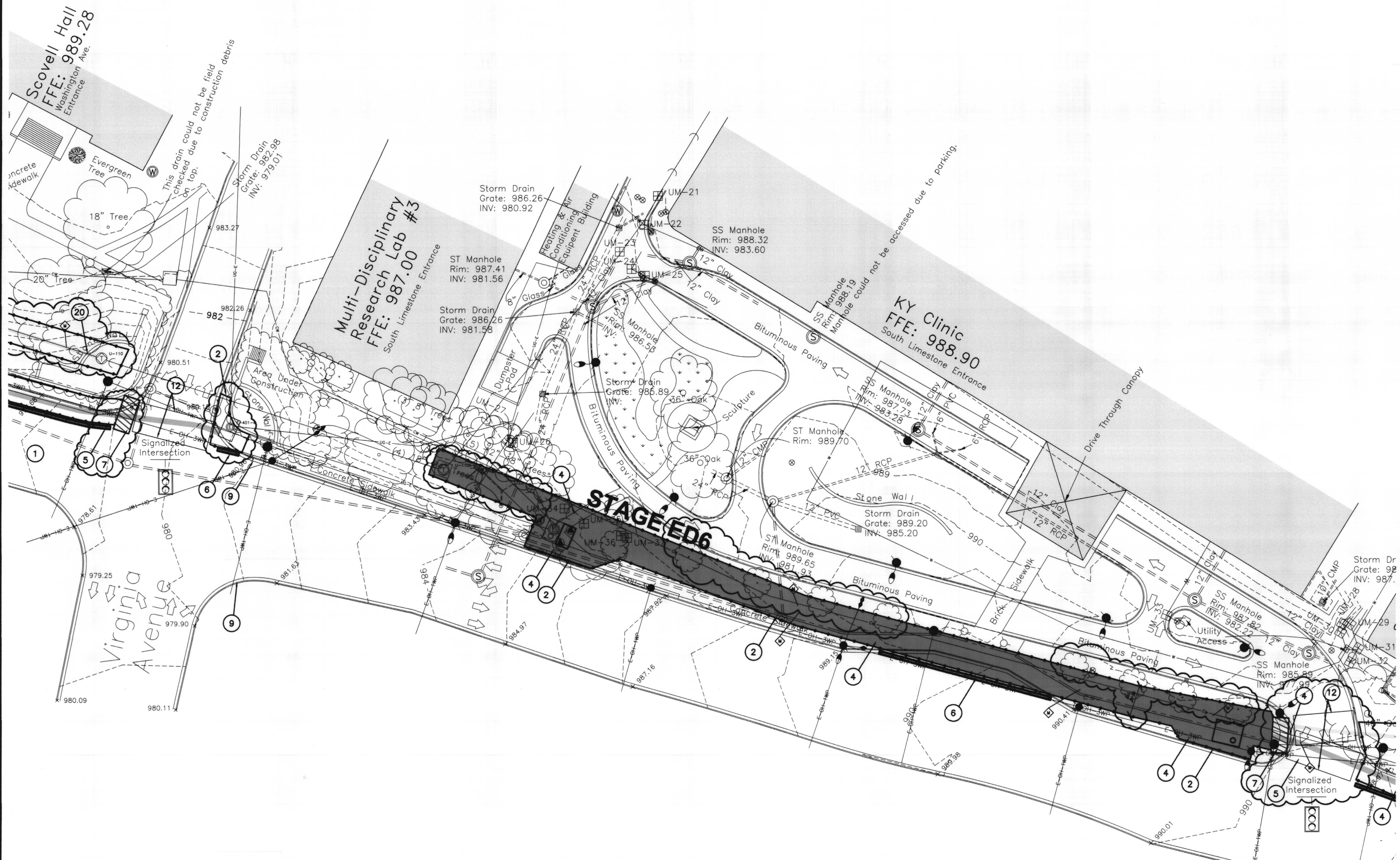
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21. REMOVE BOTH DRIVEWAY CURB CUTS AND REPLACE WITH STANDARD CURB AND WALK.
22. SIDEWALK ALONG EAST SIDE OF LIMESTONE BETWEEN VIRGINIA AVE. AND WASHINGTON AVE. SHALL BE CLOSED DURING STAGE ED5 CONSTRUCTION.

RECORD DRAWINGS DATE 11/20/2003
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 CMW, INC.



PROJECT STAGING PLAN
 UTILITY UPGRADE - PHASE 1
 UNIVERSITY OF KENTUCKY
 LEXINGTON, KENTUCKY

SHT. PROJECT TITLE
 DATE: DECEMBER 2000
 DRAWN BY: MAW
 CHECKED BY: JAB
 DATE: 11-20-03
 SHEET NUMBER
0.3
 PROJECT NUMBER
 99024.02
 C&S # 174 C-1 25-458



GENERAL NOTES

DUCTBANK WORK SHALL BE PERFORMED IN STAGES AS INDICATED. REFER TO THE SPECIAL CONDITIONS.

STAGE NUMBERING IS CODED TO IDENTIFY THE WORK AS FOLLOWS: "ED" REFERS TO ELECTRICAL DUCTBANK, "CD" REFERS TO COMMUNICATION DUCTBANK.

DEMOLISH ASPHALT OR CONCRETE PAVEMENT AND CURBS AS NEEDED FOR CONSTRUCTION, AND REPLACE TO ORIGINAL CONDITION.

REMOVE TREES AND SHRUBS AS NEEDED FOR CONSTRUCTION, AND REPLACE REMOVED PLANTS TO ORIGINAL CONDITION.

MAKE REQUIRED APPLICATIONS AND COORDINATE WITH THE APPROPRIATE AUTHORITY THE INSTALLATION OF CONCRETE BARRICADES TO PICK UP ONE LANE OF THE EAST SIDE OF LIMESTONE STREET AS SHOWN.

THE CONSTRUCTION STAGE NOTES ARE A MASTER LIST OF ITEMS, AND AS SUCH SOME TIMES ARE NOT APPLICABLE TO SOME SHEETS.

ALL DISTURBED AREAS SHALL BE PUT BACK TO THEIR ORIGINAL CONDITION AT COMPLETION OF STAGE OF WORK.

CONSTRUCTION FENCE SHALL BE THE LIMIT OF CONSTRUCTION. MATERIAL SHALL NOT BE STORED OUTSIDE CONSTRUCTION LIMITS. ACCESS TO STAGE AREAS SHALL BE ESTABLISHED WITH OWNERS REPRESENTATIVE PRIOR TO WORK.

STORAGE OF MATERIAL WITHIN CONSTRUCTION LIMITS SHALL NOT OCCUR WITHIN DRIP LINE OF TREES.

CONSTRUCTION - STAGE NOTES

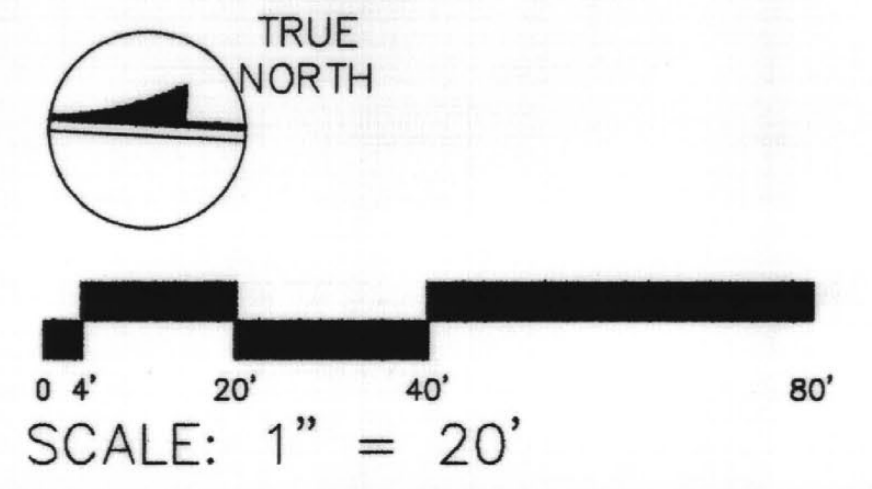
1. CONVERT NORTH TURN LANE INTO NORTH TRAFFIC LANE.
2. INSTALL CONSTRUCTION FENCE AS SHOWN. FENCE SHALL BE 6'-0" CHAIN LINK.
3. ONE LANE OF ADMINISTRATION DRIVE MUST REMAIN OPEN AT ALL TIMES.
4. DEMO CONCRETE SIDEWALK.
5. DEMO ASPHALT STREET.
6. CONCRETE BARRICADE
7. BUILD TEMPORARY PEDESTRIAN BRIDGE TO OSHA AND ADA STANDARDS. CONTRACTOR SHALL SUBMIT BRIDGE DESIGN AND CALCULATION WITH THE SHEET TO REGISTERED ENGINEER FOR REVIEW.
8. INSTALL TEMPORARY CONCRETE SIDEWALK. TEMPORARY SIDEWALK SHALL BE 5'-0" WIDE X 4" THICK. NO BASE IS PREFERRED TO MINIMIZE DAMAGE TO EXISTING PLANTS.
9. INSTALL TEMPORARY CONCRETE WALL ACCESS RAMP IN CURB.
10. MAINTAIN EXISTING GROUND INSULATION.
11. ALL WORK IN LIMESTONE STREET AND COPPER DRIVE SHALL BE DONE BETWEEN 8 PM AND 6 AM.
12. DUCTBANK TRENCH AT STREET INTERSECTIONS. EXCAVATE STREET INTERSECTION BETWEEN 8 PM AND 6 AM. INSTALL STEEL PLATE DURING THE DAY. MAINTAIN ONE LANE OF ACCESS AT ALL TIMES FOR EMERGENCY VEHICLE ACCESS.
13. ALL WORK AT STAGE CD1 SHALL BE DONE BETWEEN 8 PM AND 6 AM. CONSTRUCTION ACCESS FOR CD1 SHALL BE FROM HILLTOP AVENUE.
14. CONSTRUCTION STAGING AREA: PRESERVE EXISTING TREES IN AREA, AND RESTORE TO ORIGINAL CONDITION.
15. TWO LANES OF HOSPITAL DRIVE MUST REMAIN OPEN AT ALL TIMES. USE THE GRASSED AREA TO THE EAST SIDE OF HOSPITAL DRIVE FOR THIS PURPOSE. RESTORE GRASSED AREA TO ORIGINAL CONDITION.
16. NEW CONCRETE SIDEWALK SHALL BE EXTENDED TO BACK OF CURB. (TURF AREA SHALL BE REMOVED IN ADDITION TO REPLACING EXISTING SIDEWALK.)
17. REPLACE EXISTING BRICK PATTERN WITH CONCRETE SLAB.
18. WIDTH OF CONSTRUCTION LIMITS IN THIS AREA SHALL NOT EXCEED THE FIRST LANE OF TRAFFIC.
19. CONTRACTOR TO INSTALL TEMPORARY GUIDE WIRE TO POWER POLE FOR SUPPORT PRIOR TO EXCAVATING FOR TRENCH.

20. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENGINEER AND CONSTRUCT A SOIL STABILIZATION / UNDERPINNING SYSTEM BELOW THE EXISTING STONE WALL DURING EXCAVATION AND CONSTRUCTION OF THE UTILITY DUCT BANK. EXISTING STONE WALL SHALL NOT BE DEMOLISHED OR DISTURBED DURING SAID CONSTRUCTION. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR ANY REPAIRS REQUIRED FOR STONE WALL ARISING FROM CONSTRUCTION OF PROJECT AS DICTATED BY AND SUBJECT TO APPROVAL OF OWNER.
21. REMOVE BOTH DRIVEWAY CURB CUTS AND REPLACE WITH STANDARD CURB AND WALK.
22. SIDEWALK ALONG EAST SIDE OF LIMESTONE BETWEEN VIRGINIA AVE. AND WASHINGTON AVE. SHALL BE CLOSED DURING STAGE ED6 CONSTRUCTION.

RECORD DRAWINGS DATE 11/20/2003

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CNW, INC.



CNW, INC.
 CHRISTIAN MILLER WOODFORD, INC.
 ARCHITECTURE ENGINEERING PLANNING INTERIORS LANDSCAPE ARCHITECTURE
 400 E. ONE STREET
 LEXINGTON, KENTUCKY 40507

PROJECT STAGING PLAN
 UTILITY UPGRADE - PHASE 1
 UNIVERSITY OF KENTUCKY
 LEXINGTON, KENTUCKY

SHT. PROJECT TITLE

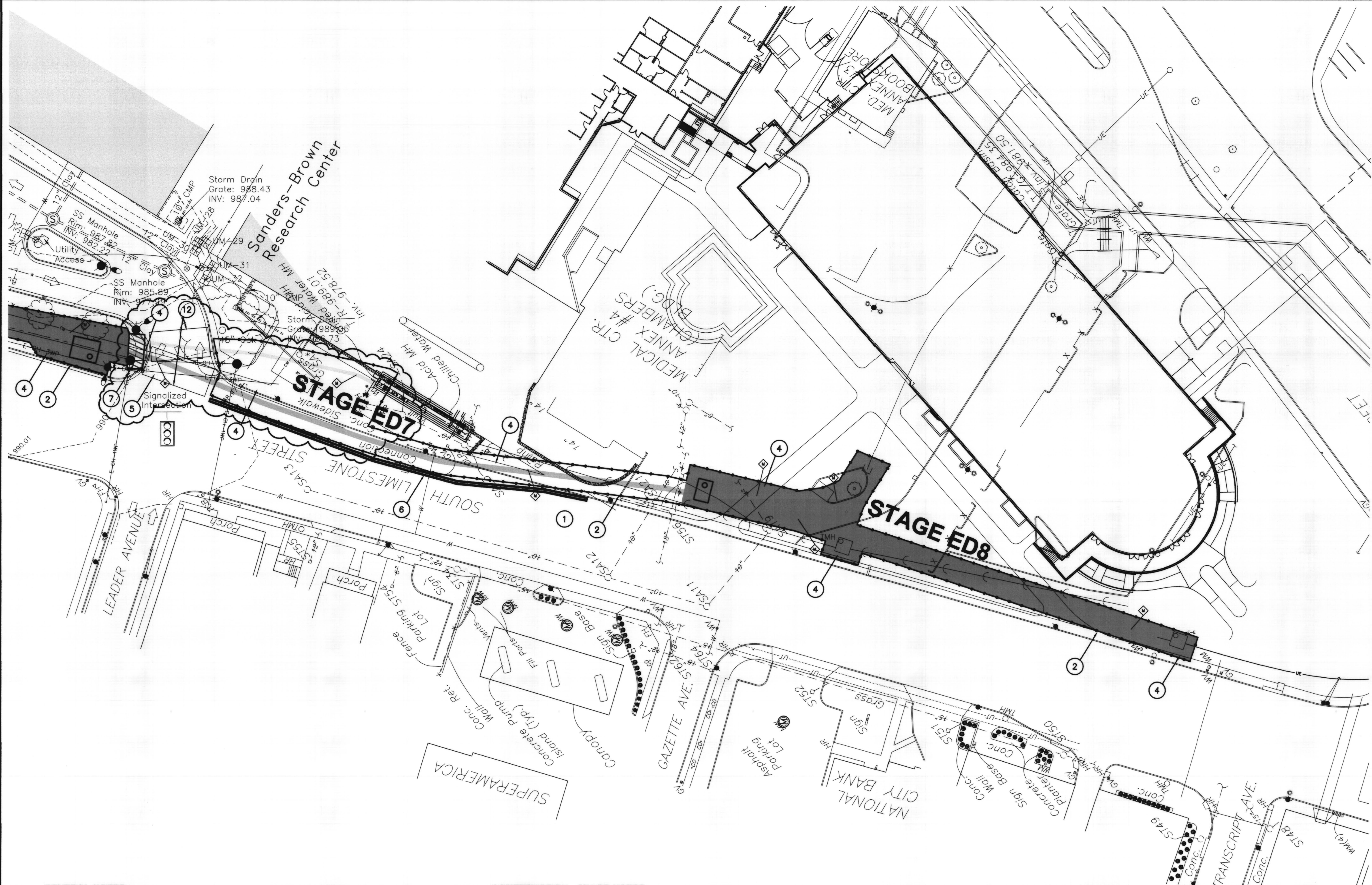
DATE: DECEMBER, 2000
 DRAWN BY: HAW
 CHECKED BY: JAB
 REVISION: #

DATE 1.
 4.

SHEET NUMBER
0.4

PROJECT NUMBER
 99024.02

Scale: 1" = 20'



GENERAL NOTES

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REMOVE TREES AND SHRUBS AS NEEDED FOR CONSTRUCTION, AND REPLACE REMOVED PLANTS TO ORIGINAL CONDITION.

MAKE REQUIRED APPLICATIONS AND COORDINATE WITH THE APPROPRIATE AUTHORITY THE INSTALLATION OF CONCRETE BARRICADES TO PICK UP ONE LANE OF THE EAST SIDE OF LIMESTONE STREET AS SHOWN.

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CONSTRUCTION FENCE SHALL BE THE LIMIT OF CONSTRUCTION. MATERIAL SHALL NOT BE STORED OUTSIDE CONSTRUCTION LIMITS. ACCESS TO STAGE AREAS SHALL BE ESTABLISHED WITH OWNERS REPRESENTATIVE PRIOR TO WORK.

STORAGE OF MATERIAL WITHIN CONSTRUCTION LIMITS SHALL NOT OCCUR WITHIN DRIP LINE OF TREES.

CONSTRUCTION - STAGE NOTES

1. CONVERT NORTH TURN LANE INTO NORTH TRAFFIC LANE.
2. INSTALL CONSTRUCTION FENCE AS SHOWN. FENCE SHALL BE 6'-0" CHAIN LINK.
3. ONE LANE OF ADMINISTRATION DRIVE MUST REMAIN OPEN AT ALL TIMES.
4. DEMO CONCRETE SIDEWALK.
5. DEMO ASPHALT STREET.
6. CONCRETE BARRICADE
7. BUILD TEMPORARY PEDESTRIAN BRIDGE TO OSHA AND ADA STANDARDS. CONTRACTOR SHALL SUBMIT BRIDGE DESIGN AND CALCULATION WITH THE SCALE OF A REGISTERED ENGINEER FOR REVIEW.
8. INSTALL TEMPORARY CONCRETE SIDEWALK. TEMPORARY SIDEWALK SHALL BE 5'-0" WIDE X 4" THICK. NO BASE IS PREFERRED TO MINIMIZE DAMAGE TO EXISTING PLANTS.
9. INSTALL REPAIRS TO CONCRETE PAVEMENT IN CURB.
10. MAINTAIN EXISTING GROUND INSULATION.

11. ALL WORK IN LIMESTONE STREET AND COPPER DRIVE SHALL BE DONE BETWEEN 8 PM AND 6 AM.
12. DUCTBANK TRENCH AT STREET INTERSECTIONS. EXCAVATE STREET INTERSECTION BETWEEN 8 PM AND 6 AM. INSTALL STEEL PLATE DURING THE DAY. MAINTAIN ONE LANE OF ACCESS AT ALL TIMES FOR EMERGENCY VEHICLE ACCESS.
13. ALL WORK AT STAGE CD1 SHALL BE DONE BETWEEN 8 PM AND 6 AM. CONSTRUCTION ACCESS FOR CD1 SHALL BE FROM HILLTOP AVENUE.
14. CONSTRUCTION STAGING AREA: PRESERVE EXISTING TREES IN AREA, AND RESTORE TO ORIGINAL CONDITION.
15. TWO LANES OF HOSPITAL DRIVE MUST REMAIN OPEN AT ALL TIMES. USE THE GRASSED AREA TO THE EAST SIDE OF HOSPITAL DRIVE FOR THIS PURPOSE. RESTORE GRASSED AREA TO ORIGINAL CONDITION.
16. NEW CONCRETE SIDEWALK SHALL BE EXTENDED TO BACK OF CURB. (TURF AREA SHALL BE REMOVED) IN ADDITION TO REPLACING EXISTING SIDEWALK.
17. REPLACE EXISTING BRICK PATTERN WITH CONCRETE SLAB.
18. WIDTH OF CONSTRUCTION LIMITS IN THIS AREA SHALL NOT EXCEED THE FIRST LANE OF TRAFFIC.
19. CONTRACTOR TO INSTALL TEMPORARY GUIDE WIRE TO POWER POLE FOR SUPPORT PRIOR TO EXCAVATING FOR DUCTBANK.

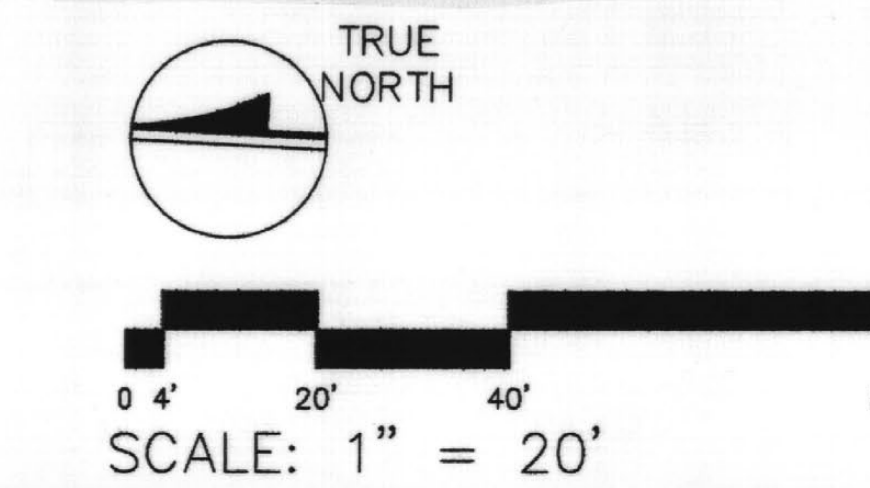
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21. REMOVE BOTH DRIVEWAY CURB CUTS AND REPLACE WITH STANDARD CURB AND WALK.

22. SIDEWALK ALONG EAST SIDE OF LIMESTONE BETWEEN VIRGINIA AVE. AND WASHINGTON AVE. SHALL BE CLOSED DURING STAGE ED8 CONSTRUCTION.

RECORD DRAWINGS DATE 11/20/2003

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CHRISTOPHER MILLER WOODFORD, INC.
ARCHITECTURE ENGINEERING PLANNING INTERIORS LANDSCAPE ARCHITECTURE
401 E. VINE STREET
LEXINGTON, KENTUCKY 40507

REGISTERED PROFESSIONAL ENGINEER
COMMUNITY DEVELOPMENT
KENTUCKY
NO. 10001
CHRISTOPHER MILLER

FAILURE TO MAKE BY THESE DOCUMENTS OR TO OBTAIN GUIDANCE

AND ALL INFORMATION AND DATA BY THE USER. THE USER SHALL BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION AND DATA PROVIDED TO THE USER. THE USER SHALL BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION AND DATA PROVIDED TO THE USER. THE USER SHALL BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION AND DATA PROVIDED TO THE USER.

PROJECT STAGING PLAN
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE

DATE: DECEMBER, 2000

DRAWN BY: MAW

CHECKED BY: JAB

REVISED BY:

DATE:

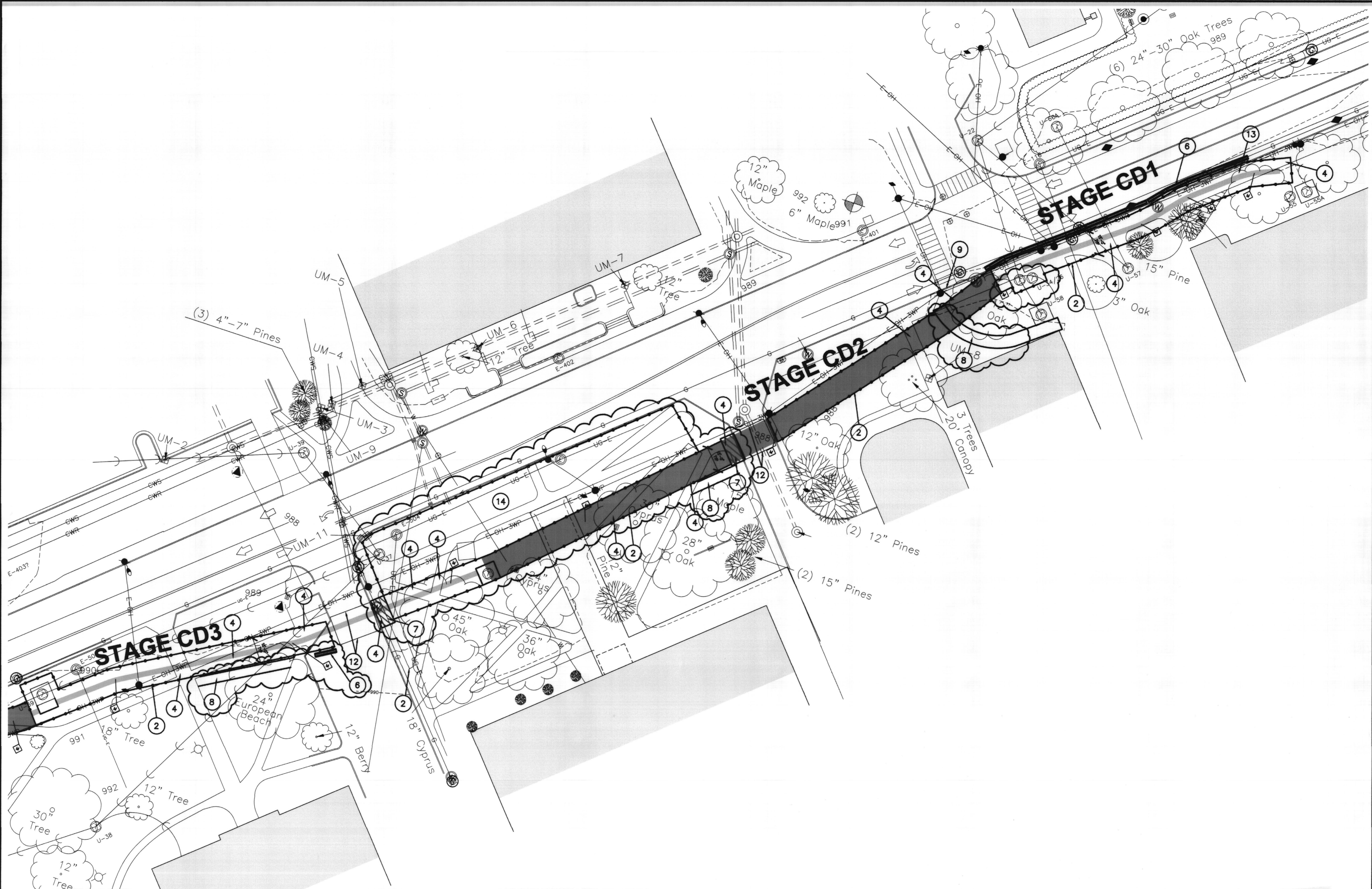
SHEET NUMBER

0.5

PROJECT NUMBER

99024.02

Scale: 1" = 20'



GENERAL NOTES

DUCTBANK WORK SHALL BE PERFORMED IN STAGES AS INDICATED. REFER TO THE SPECIAL CONDITIONS.

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REMOVE TREES AND SHRUBS AS NEEDED FOR CONSTRUCTION, AND REPLACE REMOVED PLANTS TO ORIGINAL CONDITION.

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STORAGE OF MATERIAL WITHIN CONSTRUCTION LIMITS SHALL NOT OCCUR WITHIN DRIP LINE OF TREES.

CONSTRUCTION - STAGE NOTES

1. CONVERT NORTH TURN LANE INTO NORTH TRAFFIC LANE.
2. INSTALL CONSTRUCTION FENCE AS SHOWN. FENCE SHALL BE 6'-0" CHAIN LINK.
3. ONE LANE OF ADMINISTRATION DRIVE MUST REMAIN OPEN AT ALL TIMES.
4. DEMO CONCRETE SIDEWALK.
5. DEMO ASPHALT STREET.
6. CONCRETE BARRICADE
7. BUILD TEMPORARY PEDESTRIAN BRIDGE TO OSHA AND ADA STANDARDS. CONTRACTOR SHALL SUBMIT BRIDGE DESIGN AND CALCULATION WITH THE SEAL OF A REGISTERED ENGINEER FOR REVIEW.
8. INSTALL TEMPORARY CONCRETE SIDEWALK. TEMPORARY SIDEWALK SHALL BE 5'-0" WIDE X 4" THICK. NO BASE IS PREFERRED TO MINIMIZE DAMAGE TO EXISTING PLANTS.
9. INSTALL REINFORCED CONCRETE ADA ACCESS RAMP IN CURB.
10. MAINTAIN EXISTING GROUND INSULATION.
11. ALL WORK IN LIMESTONE STREET AND COPPER DRIVE SHALL BE DONE BETWEEN 8 PM AND 6 AM.
12. DUCTBANK TRENCH AT STREET INTERSECTIONS: EXCAVATE STREET INTERSECTION BETWEEN 8 PM AND 6 AM. INSTALL STEEL PLATE DURING THE DAY. MAINTAIN ONE LANE OF ACCESS AT ALL TIMES FOR EMERGENCY VEHICLE ACCESS.
13. ALL WORK AT STAGE CD1 SHALL BE DONE BETWEEN 8 PM AND 6 AM. CONSTRUCTION ACCESS FOR CD1 SHALL BE FROM HILLTOP AVENUE.
14. CONSTRUCTION STAGING AREA: PRESERVE EXISTING TREES IN AREA, AND RESTORE TO ORIGINAL CONDITION.
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17. REPLACE EXISTING BRICK PATTERN WITH CONCRETE SLAB.
18. WIDTH OF CONSTRUCTION LIMITS IN THIS AREA SHALL NOT EXCEED THE FIRST LANE OF TRAFFIC.
19. CONTRACTOR TO INSTALL TEMPORARY GUIDE WIRE TO POWER POLE FOR SUPPORT PRIOR TO EXCAVATING FOR DUCTBANK.

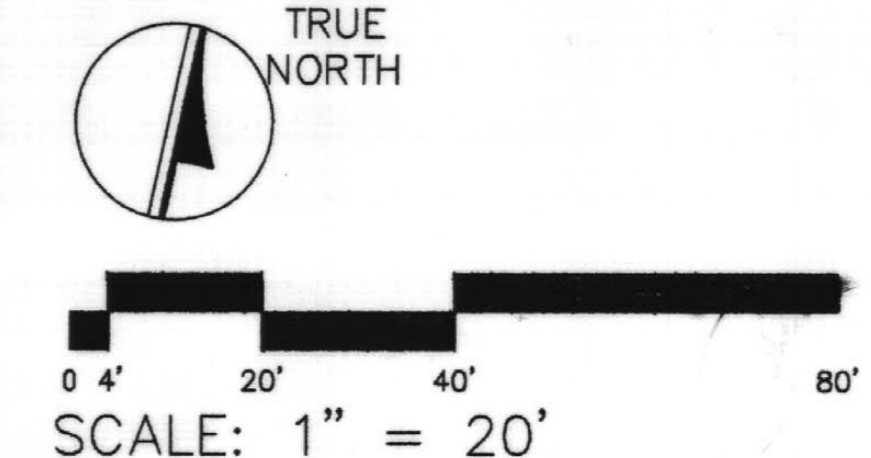
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21. REMOVE BOTH DRIVEWAY CURB CUTS AND REPLACE WITH STANDARD CURB AND WALK.

22. SIDEWALK ALONG EAST SIDE OF LIMESTONE BETWEEN VIRGINIA AVE. AND WASHINGTON AVE. SHALL BE CLOSED DURING STAGE ED3 CONSTRUCTION.

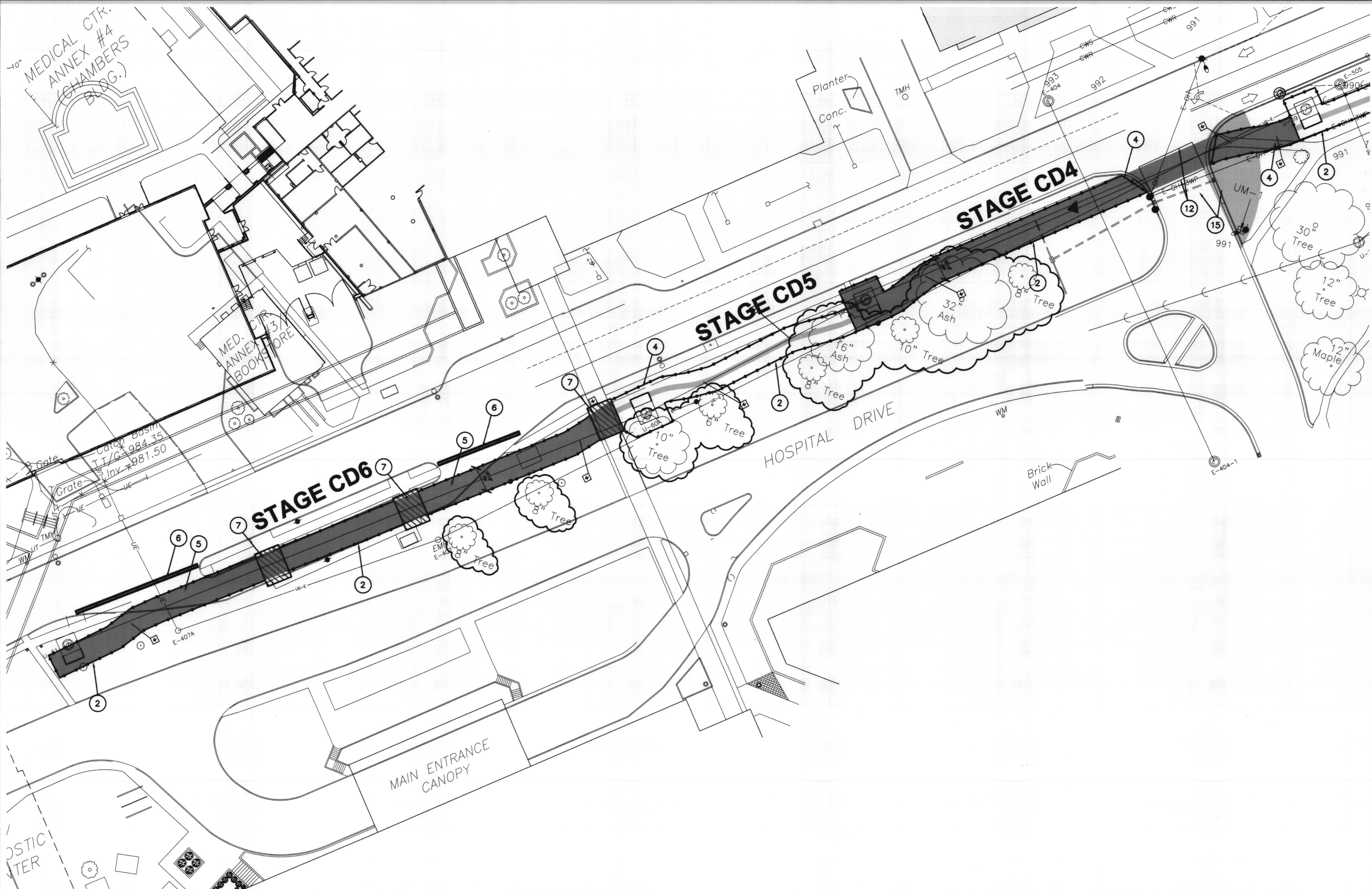
RECORD DRAWINGS DATE 11/20/2003

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PROJECT STAGING PLAN
 UTILITY UPGRADE - PHASE 1
 UNIVERSITY OF KENTUCKY
 LEXINGTON, KENTUCKY

SHEET	PROJECT TITLE
DATE	DECEMBER 2000
DRAWN BY	MAW
CHECKED BY	JAB
REVIEWED	
DATE	11/20/03
SHEET NUMBER	0.6
PROJECT NUMBER	99024.02
CAD #	
DATE	11/20/03



GENERAL NOTES

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REMOVE TREES AND SHRUBS AS NEEDED FOR CONSTRUCTION, AND REPLACE REMOVED PLANTS TO ORIGINAL CONDITION.

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STORAGE OF MATERIAL WITHIN CONSTRUCTION LIMITS SHALL NOT OCCUR WITHIN DRIP LINE OF TREES.

CONSTRUCTION - STAGE NOTES

1. CONVERT NORTH TURN LANE INTO NORTH TRAFFIC LANE.
2. INSTALL CONSTRUCTION FENCE AS SHOWN. FENCE SHALL BE 6'-0" CHAIN LINK.
3. ONE LANE OF ADMINISTRATION DRIVE MUST REMAIN OPEN AT ALL TIMES.
4. DEMO CONCRETE SIDEWALK.
5. DEMO ASPHALT STREET.
6. CONCRETE BARRICADE
7. BUILD TEMPORARY PEDESTRIAN BRIDGE TO OSHA AND ADA STANDARDS. CONTRACTOR SHALL SUBMIT BRIDGE DESIGN AND CALCULATION WITH THE SEAL OF A REGISTERED ENGINEER FOR REVIEW.
8. INSTALL TEMPORARY CONCRETE SIDEWALK. TEMPORARY SIDEWALK SHALL BE 5'-0" WIDE X 4" THICK. NO BASE IS PREFERRED TO MINIMIZE DAMAGE TO EXISTING PLANTS.
9. INSTALL REINFORCED CONCRETE WALL ACCESS RAMP IN CURB.
10. MAINTAIN EXISTING GROUND INSULATION.

11. ALL WORK IN LIMESTONE STREET AND COPPER DRIVE SHALL BE DONE BETWEEN 8 PM AND 6 AM.
12. DUCTBANK TRENCH AT STREET INTERSECTIONS: EXCAVATE STREET INTERSECTION BETWEEN 8 PM AND 6 AM. INSTALL STEEL PLATE DURING THE DAY. MAINTAIN ONE LANE OF ACCESS AT ALL TIMES FOR EMERGENCY VEHICLE ACCESS.
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17. REPLACE EXISTING BRICK PATTERN WITH CONCRETE SLAB.
18. WIDTH OF CONSTRUCTION LIMITS IN THIS AREA SHALL NOT EXCEED THE FIRST LANE OF TRAFFIC.
19. CONTRACTOR TO INSTALL TEMPORARY GUIDE WIRE TO POWER POLE FOR SUPPORT PRIOR TO EXCAVATING FOR TRENCH.

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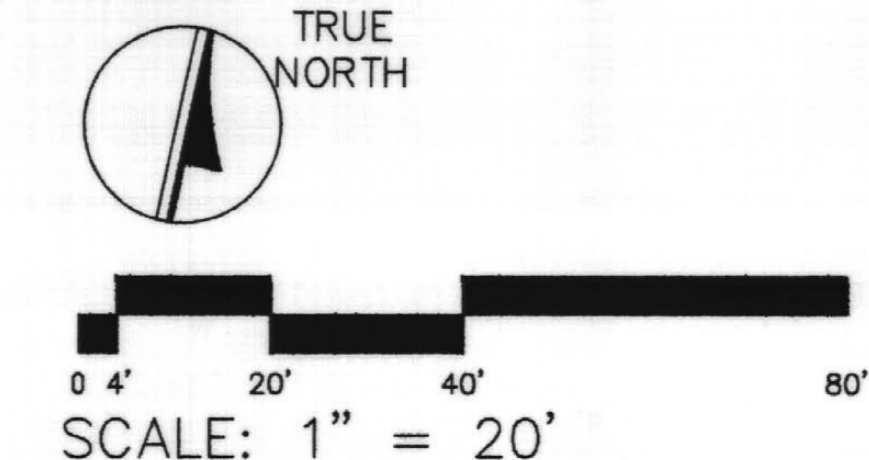
21. REMOVE BOTH DRIVEWAY CURB CUTS AND REPLACE WITH STANDARD CURB AND WALK.

22. SIDEWALK ALONG EAST SIDE OF LIMESTONE BETWEEN VIRGINIA AVE. AND WASHINGTON AVE. SHALL BE CLOSED DURING STAGE ED5 CONSTRUCTION.

RECORD DRAWINGS DATE 11/20/2003

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CMW, INC.



CMW, INC.
 CHRISTIAN - MILLER - WOODFORD, INC.
 ARCHITECTURE ENGINEERING PLANNING INTERIORS LANDSCAPE ARCHITECTURE
 401 E. WINE STREET
 LEXINGTON, KENTUCKY 40507

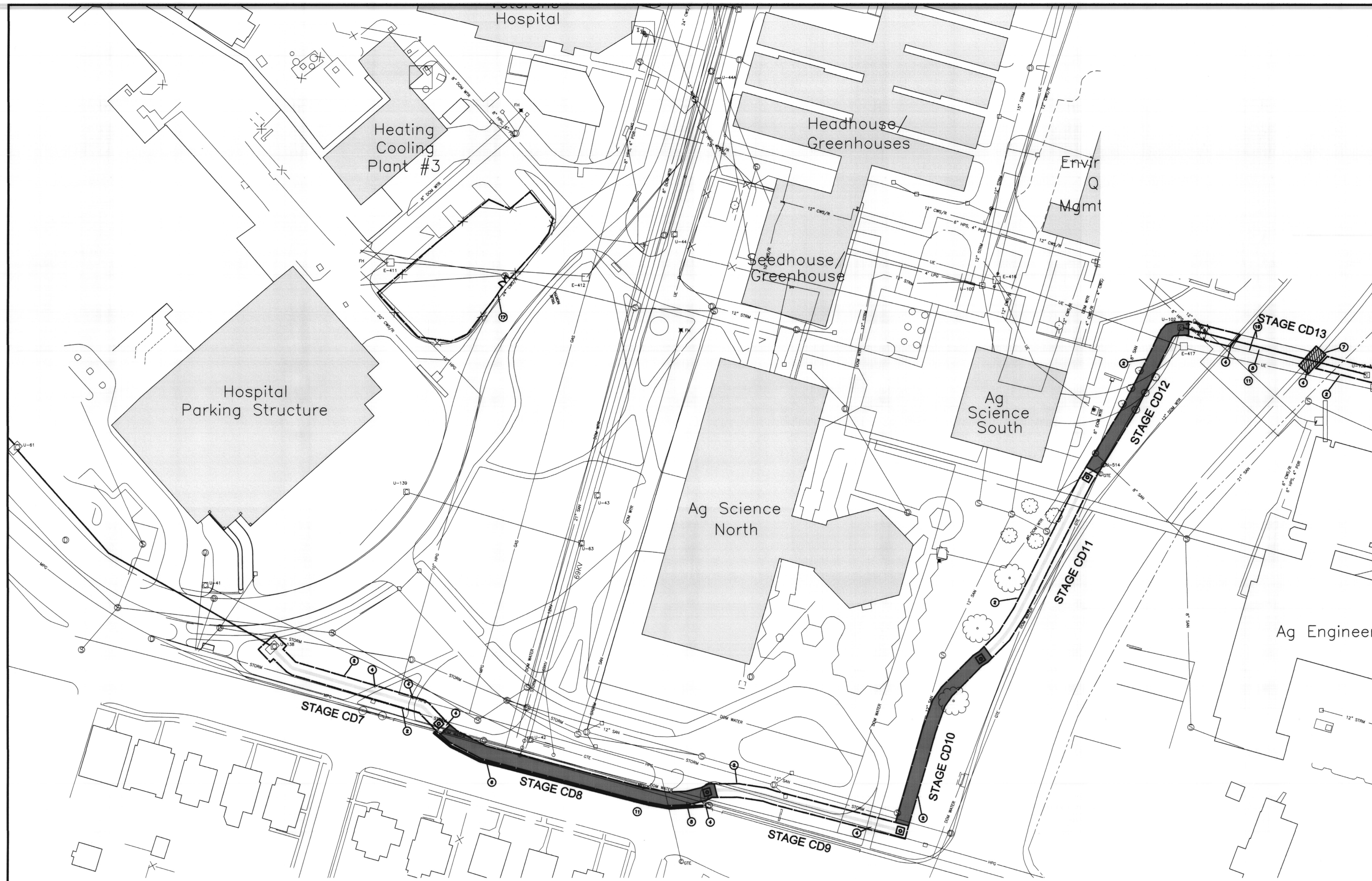
PROJECT STAGING PLAN
 UTILITY UPGRADE - PHASE 1
 UNIVERSITY OF KENTUCKY
 LEXINGTON, KENTUCKY

SHEET: PROJECT TITLE
 DATE: DECEMBER, 2000
 DRAWN BY: MAW
 CHECKED BY: JAB
 REVISIONS:
 DATE 1
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SHEET NUMBER
0.7

PROJECT NUMBER
 99024.02

174 C-1 25462



GENERAL NOTES

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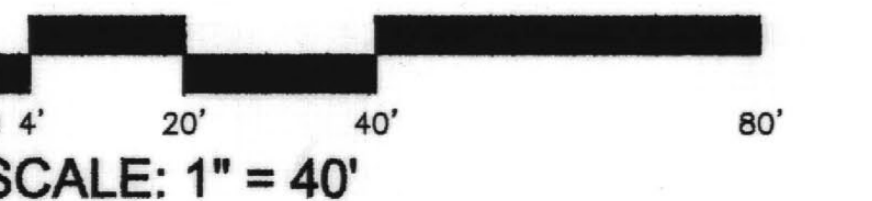
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2. INSTALL CONSTRUCTION FENCE AS SHOWN. FENCE SHALL BE 6'-0" CHAIN LINK.
3. ONE LANE OF ADMINISTRATION DRIVE MUST REMAIN OPEN AT ALL TIMES.
4. DEMO CONCRETE SIDEWALK.
5. DEMO ASPHALT STREET.
6. CONCRETE BARRICADE
7. BUILD TEMPORARY PEDESTRIAN BRIDGE TO OSHA AND ADA STANDARDS. CONTRACTOR SHALL SUBMIT BRIDGE DESIGN AND CALCULATION WITH THE SEAL OF A REGISTERED ENGINEER FOR REVIEW.
8. INSTALL TEMPORARY SIDEWALK.
9. INSTALL ADA ACCESS RAMP IN CURB.
10. MAINTAIN EXISTING GROUND INSULATION.
11. ALL WORK IN LIMESTONE STREET AND COPPER DRIVE SHALL BE DONE BETWEEN 8 PM AND 6 AM.
12. DUCTBANK TRENCH AT STREET INTERSECTIONS: EXCAVATE STREET INTERSECTION BETWEEN 8 PM AND 6 AM, INSTALL STEEL PLATE DURING THE DAY. MAINTAIN ONE LANE OF ACCESS AT ALL TIMES FOR EMERGENCY VEHICLE ACCESS.
13. ALL WORK AT STAGE CD1 SHALL BE DONE BETWEEN 8 PM AND 6 AM. CONSTRUCTION ACCESS FOR CD1 SHALL BE FROM HILLTOP AVENUE.
14. CONSTRUCTION STAGING AREA: PRESERVE EXISTING TREES IN AREA, AND RESTORE TO ORIGINAL CONDITION.
15. TWO LANES OF HOSPITAL DRIVE MUST REMAIN OPEN AT ALL TIMES. USE THE GRASSSED AREA TO THE EAST SIDE OF HOSPITAL DRIVE FOR THIS PURPOSE. RESTORE GRASSSED AREA TO ORIGINAL CONDITION.
16. WORK AT COOPER DRIVE SHALL BE DONE AT NIGHT AS INDICATED AND PLATED DURING THE DAY. BARRICADES FOR WORK AREAS SHALL BE COORDINATED WITH THE APPROPRIATE AUTHORITIES.
17. N.I.C. STAGING AREA FOR UTILITY UPGRADE - PHASE 1. SHALL BE SUPPLIED BY THE UNIVERSITY OF KENTUCKY.

RECORD DRAWINGS DATE 11/20/2003

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CMW, INC.



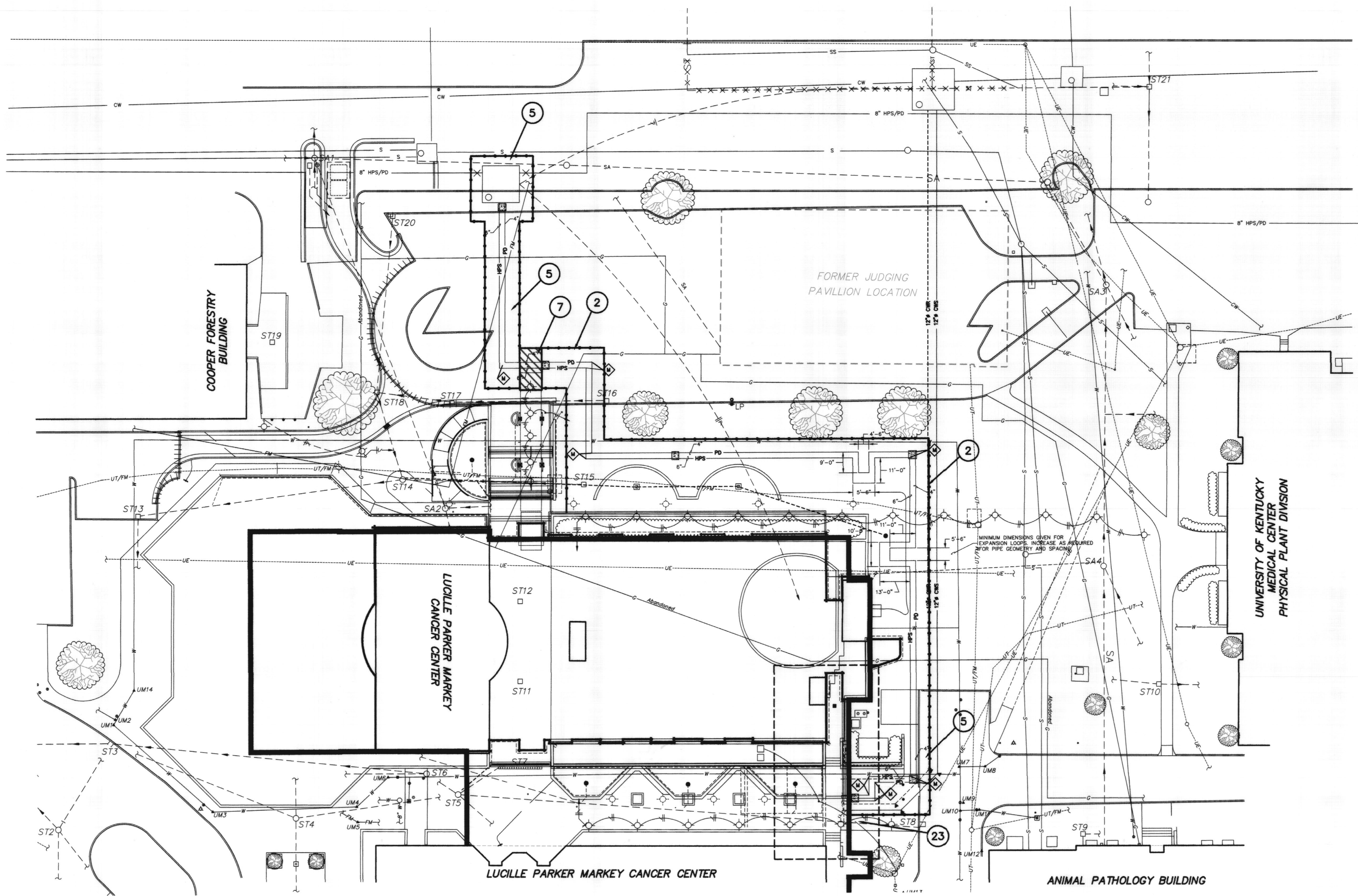
FAILURE TO ADHERE TO THESE DOCUMENTS OR THE DESIGN PROFESSIONAL, IN ANY MANNER, SHALL BE AT THE USER'S SOLE RISK. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED TO THE DESIGN PROFESSIONAL. THE DESIGN PROFESSIONAL SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.

PROJECT STAGING PLAN
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE
 DATE: DECEMBER, 2003
 DRAWN BY: MAW
 CHECKED BY: JAB
 REVISED: JAB
 DATE: 1-2-04

SHEET NUMBER
0.8

PROJECT NUMBER
 99024.02



HUGUELET DRIVE - SITE PLAN

10 0 20 40 FEET

GRAPHIC SCALE: 1"=20'-0"

GENERAL NOTES

DUCTBANK WORK SHALL BE PERFORMED IN STAGES AS INDICATED. REFER TO THE SPECIAL CONDITIONS.
 STAGE NUMBERING IS CODED TO IDENTIFY THE WORK AS FOLLOWS: "ED" REFERS TO ELECTRICAL DUCTBANK, "CD" REFERS TO COMMUNICATION DUCTBANK.
 DEMOLISH ASPHALT OR CONCRETE PAVEMENT AND CURBS AS NEEDED FOR CONSTRUCTION, AND REPLACE TO ORIGINAL CONDITION.
 REMOVE TREES AND SHRUBS AS NEEDED FOR CONSTRUCTION, AND REPLACE REMOVED PLANTS TO ORIGINAL CONDITION.
 MAKE REQUIRED APPLICATIONS AND COORDINATE WITH THE APPROPRIATE AUTHORITY THE INSTALLATION OF CONCRETE BARRICADES TO PICK UP ONE LANE OF THE EAST SIDE OF LIMESTONE STREET AS SHOWN.
 THE CONSTRUCTION STAGE NOTES ARE A MASTER LIST OF ITEMS, AND AS SUCH SOME TIMES ARE NOT APPLICABLE TO SOME SHEETS.
 ALL DISTURBED AREAS SHALL BE PUT BACK TO THEIR ORIGINAL CONDITION AT COMPLETION OF STAGE OF WORK.

CONSTRUCTION FENCE SHALL BE THE LIMIT OF CONSTRUCTION. MATERIAL SHALL NOT BE STORED OUTSIDE CONSTRUCTION LIMITS. ACCESS TO STAGE AREAS SHALL BE ESTABLISHED WITH OWNERS REPRESENTATIVE PRIOR TO WORK.
 STORAGE OF MATERIAL WITHIN CONSTRUCTION LIMITS SHALL NOT OCCUR WITHIN DRIP LINE OF TREES.

CONSTRUCTION - STAGE NOTES

1. CONVERT NORTH TURN LANE INTO NORTH TRAFFIC LANE.
2. INSTALL CONSTRUCTION FENCE AS SHOWN. FENCE SHALL BE 6'-0" CHAIN LINK.
3. ONE LANE OF ADMINISTRATION DRIVE MUST REMAIN OPEN AT ALL TIMES.
4. DEMO CONCRETE SIDEWALK.
5. DEMO ASPHALT STREET.
6. CONCRETE BARRICADE
7. BUILD TEMPORARY PEDESTRIAN BRIDGE TO OSHA AND ADA STANDARDS. CONTRACTOR SHALL SUBMIT BRIDGE DESIGN AND CALCULATION WITH THE SEAL OF A REGISTERED ENGINEER FOR REVIEW.
8. INSTALL TEMPORARY CONCRETE SIDEWALK. TEMPORARY SIDEWALK SHALL BE 5'-0" WIDE X 4" THICK. NO BASE IS PREFERRED TO MINIMIZE DAMAGE TO EXISTING PLANTS.
9. INSTALL REFINISHED CONCRETE ADA ACCESS RAMP IN CURB.
10. MAINTAIN EXISTING GROUND INSULATION.
11. ALL WORK IN LIMESTONE STREET AND COPPER DRIVE SHALL BE DONE BETWEEN 8 PM AND 6 AM.
12. DUCTBANK TRENCH AT STREET INTERSECTIONS: EXCAVATE STREET INTERSECTION BETWEEN 8 PM AND 6 AM. INSTALL STEEL PLATE DURING THE DAY. MAINTAIN ONE LANE OF ACCESS AT ALL TIMES FOR EMERGENCY VEHICLE ACCESS.
13. ALL WORK AT STAGE CD1 SHALL BE DONE BETWEEN 8 PM AND 6 AM. CONSTRUCTION ACCESS FOR CD1 SHALL BE FROM HILLTOP AVENUE.
14. CONSTRUCTION STAGING AREA: PRESERVE EXISTING TREES IN AREA, AND RESTORE TO ORIGINAL CONDITION.
15. TWO LANES OF HOSPITAL DRIVE MUST REMAIN OPEN AT ALL TIMES. USE THE GRASSED AREA TO THE EAST SIDE OF HOSPITAL DRIVE FOR THIS PURPOSE. RESTORE GRASSED AREA TO ORIGINAL CONDITION.
16. NEW CONCRETE SIDEWALK SHALL BE EXTENDED TO BACK OF CURB. (TURF AREA SHALL BE REMOVED) IN ADDITION TO REPLACING EXISTING SIDEWALK.
17. REPLACE EXISTING BRICK PATTERN WITH CONCRETE SLAB.
18. WIDTH OF CONSTRUCTION LIMITS IN THIS AREA SHALL NOT EXCEED THE FIRST LANE OF TRAFFIC.
19. CONTRACTOR TO INSTALL TEMPORARY GUIDE WIRE TO POWER POLE FOR SUPPORT PRIOR TO EXCAVATION FOR TRENCH.

20. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENGINEER AND CONSTRUCT A SOIL STABILIZATION UNDERPINNING SYSTEM BELOW THE EXISTING STONE WALL DURING EXCAVATION AND CONSTRUCTION OF THE UTILITY DUCT BANK. EXISTING STONE WALL SHALL NOT BE DEMOLISHED OR DISTURBED DURING SAID CONSTRUCTION. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR ANY REPAIRS REQUIRED FOR STONE WALL ARISING FROM CONSTRUCTION OF PROJECT AS DICTATED BY AND SUBJECT TO APPROVAL OF OWNER.
21. REMOVE BOTH DRIVEWAY CURB CUTS AND REPLACE WITH STANDARD CURB AND WALK.
22. SIDEWALK ALONG EAST SIDE OF LIMESTONE BETWEEN VIRGINIA AVE. AND WASHINGTON AVE. SHALL BE CLOSED DURING STAGE ED3 CONSTRUCTION.
23. EGRESS DOORS FROM BUILDING SHALL BE MAINTAINABLE AT ALL TIMES.

RECORD DRAWINGS DATE 11/20/2003
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 CMW, INC.

CMW
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 400 E. VINE STREET

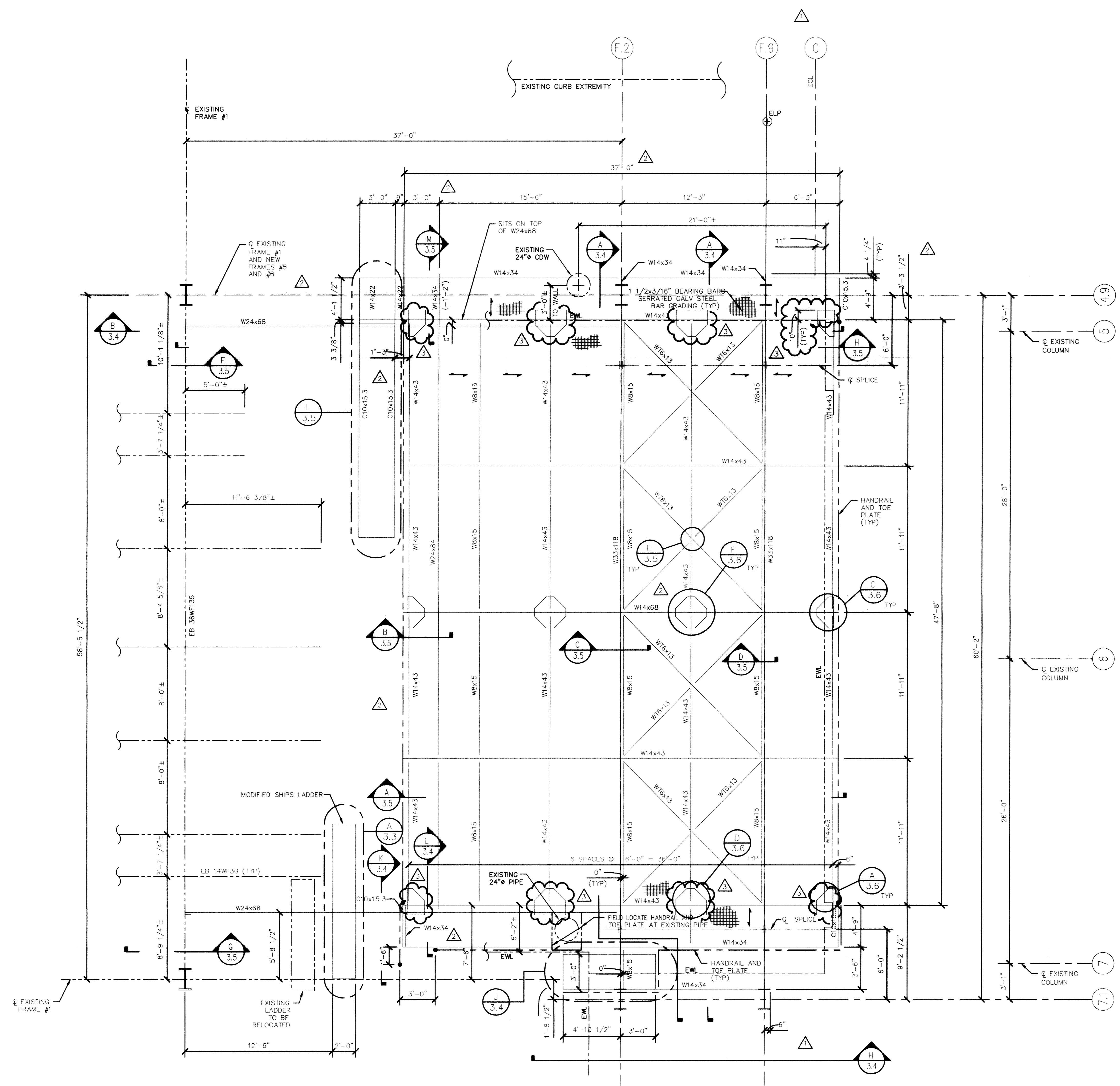
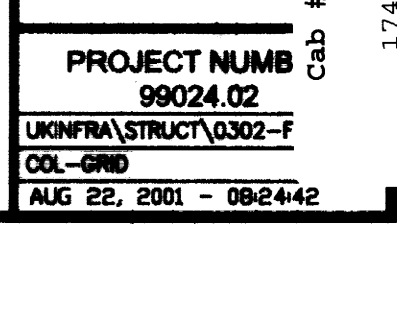
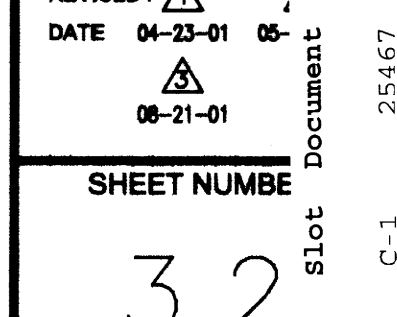
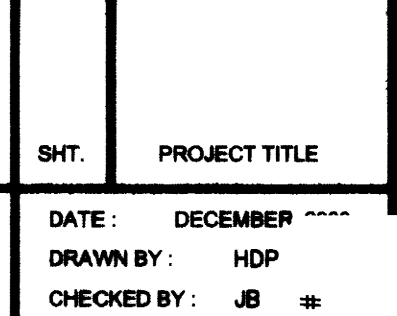
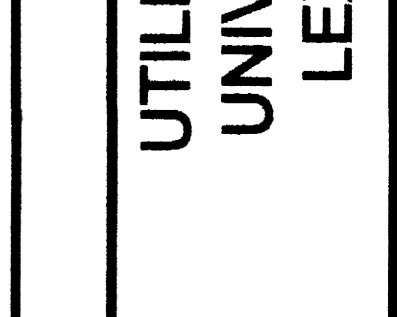
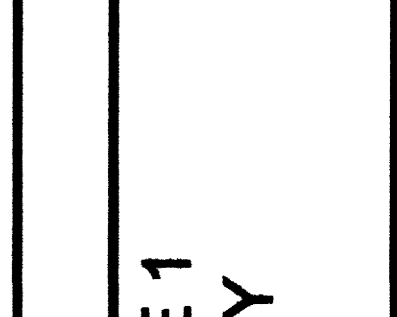
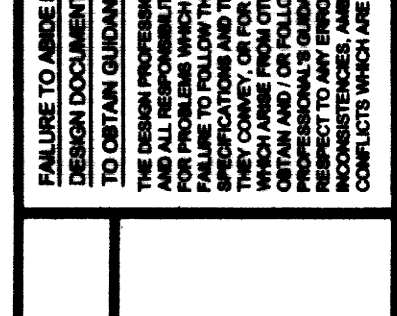
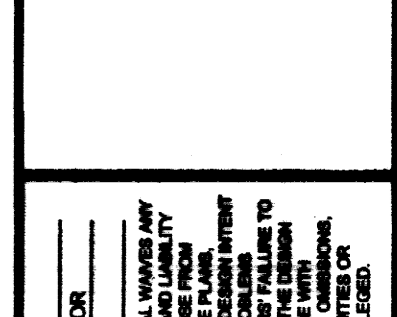
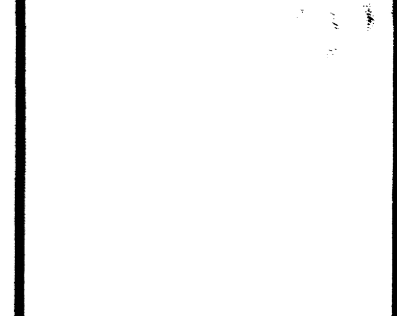
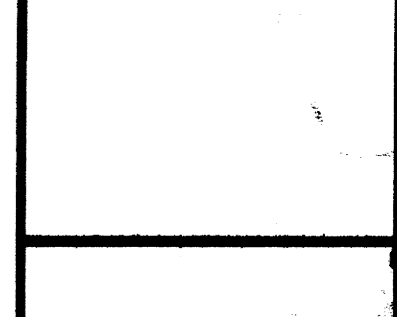
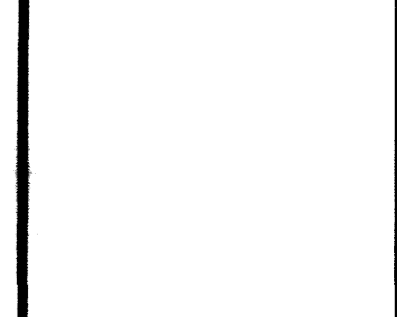
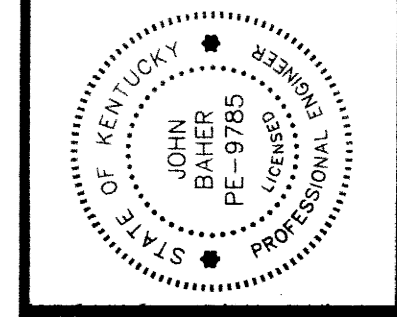
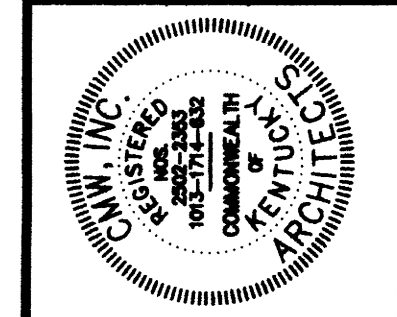
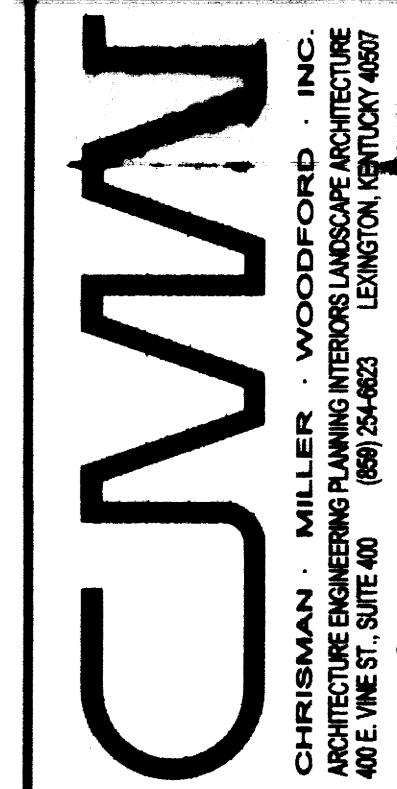
PROJECT STAGING PLAN
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHEET: PROJECT TITLE
 DATE: DECEMBER 2003
 DRAWN BY: MAW
 CHECKED BY: JAB
 REVISED: DATE

SHEET NUMBER
0.9
 PROJECT NUMB
 99024.02

LEGEND

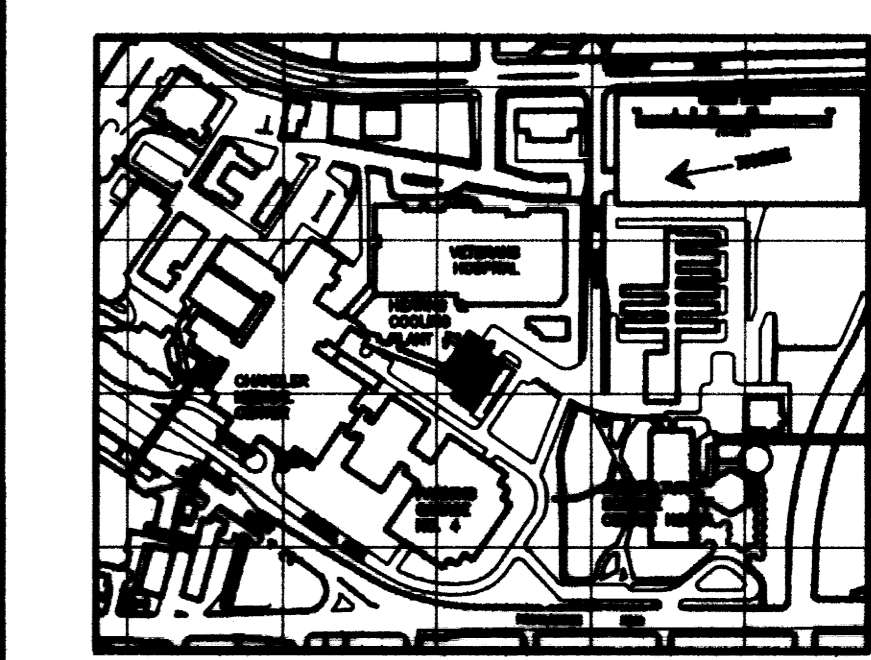
- EB = EXISTING BEAM
- ECL = EXISTING COLUMN LINE
- ELP = EXISTING LAMP POST
- EWL = EXISTING WALL LINE
- CDW = CONDENSATE WATER



FRAMING PLAN
NOT TO SCALE

T.O.S. 1017'-11" (A 3.2)

RECORD DRAWINGS DATE 11/20/2003
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CWM, INC.



FRAMING PLAN
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE
DATE: DECEMBER
DRAWN BY: HDP
CHECKED BY: JB
REVISED: 04-23-01
DATE: 08-21-01
SHEET NUMBER
3.2
PROJECT NUMBER
98024 02
UNIFORM STRUCTURAL DRAWING
COL-GRID
NS 25, 2001 - 0824-02

GENERAL NOTES

DESIGN LOADS

EQUIPMENT LOAD	
COOLING TOWERS	
EMPTY	15,000 LBS EACH
OPERATING	22,600 LBS EACH
STAIRS AND WALKWAYS	100 PSF

ROOF SNOW LOAD

SNOW EXPOSURE FACTOR	Ce = 0.70
IMPORTANCE FACTOR	Is = 1.20
FLAT-ROOF SNOW LOAD (PF = CelsPg)	Pf = 1.26
*INCREASE FOR DRIFTING PER KBC, SECTION 1608.0	

WIND LOAD

PRIMARY FRAME AND COMPONENTS GREATER THAN 700 SQ. FT.

WIND DESIGN PRESSURE (P) HEIGHT ABOVE GROUND	PRESSURE
0-15'	
20'	
25'	
30'	
40'	
50'	

COMPONENTS AND CLADDING LESS THAN 700 SQ. FT. - PER KBC, SECTION 1609.8

EARTHQUAKE DESIGN DATA

BASIC STRUCTURAL SYSTEM	SESS
SEISMIC RESISTING SYSTEM	SESS
PEAK VELOCITY-RELATED ACCELERATION	Av = 0.07
PEAK ACCELERATION	Ap = 0.05
SEISMIC HAZARD EXPOSURE GROUP	GROUP III
SEISMIC PERFORMANCE CATEGORY	CATEGORY C
SOIL-PROFILE SITE COEFFICIENT	S = 1.0
RESPONSE MODIFICATION FACTOR	R = 5
DEFLECTION AMPLIFICATION FACTOR	Cd = 4.5
METHOD OF ANALYSIS	EQUIVALENT LATERAL FORCE PROCEDURE

DESIGN STRESSES

CONCRETE (STRENGTH DESIGN) MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS:

DRILLED PIERS & GRADE BEAMS	f _c = 4,500 PSI
EXTERIOR SLABS ON GRADE	f _c = 4,000 PSI
CONCRETE SUBJECT TO FREEZING AND THAWING	f _c = 4,500 PSI
REINFORCING BARS (ASTM A615 GRADE 60)	f _y = 60,000 PSI
WIDE FLANGE AND TEE SHAPES DESIGNATED AS W AND WT (ASTM A992)	f _y = 50,000 PSI
WIDE FLANGE AND TEE SHAPES DESIGNATED AS M, S, HP, MT AND ST (ASTM 36)	f _y = 36,000 PSI
CHANNELS, ANGLES, PLATES AND BARS (ASTM A36)	f _y = 36,000 PSI
COLUMN BASE PLATES (ASTM A572)	f _y = 50,000 PSI
METAL DECK	f _y = 20,000 PSI
SOIL BEARING PRESSURE FOR DRILLED PIERS (SOLID ROCK)	f _s = 20,000 PSI
SOIL BEARING PRESSURE FOR FOUNDATIONS (ON SOIL)	f _s = 20,000 PSI

GENERAL

- THE REQUIREMENTS OF THESE GENERAL NOTES APPLY UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO COMMENCING WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES WHICH MAY EXIST.
- ANY DISCREPANCIES BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER.
- DO NOT SCALE DRAWINGS.
- THE CONTRACTOR SHALL FURNISH ALL NECESSARY BRACING REQUIRED TO PROPERLY CONSTRUCT THE BUILDING.
- SHOP DRAWINGS MUST BE CHECKED AND STAMPED BY THE CONTRACTOR PRIOR TO SUBMISSION.

FOUNDATION CONSTRUCTION

- FOUNDATIONS FOR THIS PROJECT ARE DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS NOTED ON EXISTING DRAWING S-2 (5/11/97) BY MASON & HANAGER, CIVIL ENGINEERS, INC.
- ELEVATIONS GIVEN ARE TO THE TOP OF FOOTINGS AND GRADE BEAMS.
- ALL DRILLED PIERS MUST BE SUPPORTED ON UNDISTURBED SOLID ROCK OF SUPPORTING DESIGN LOADS WITHOUT APPRECIABLE SETTLEMENT.
- FOR PLACEMENT AND COMPACTION OF FILL UNDER SLABS ON GRADE, SEE SPECIFICATIONS. IF NOT OTHERWISE NOTED, COMPACT ALL FILL TO 98% OF OPTIMUM LABORATORY DENSITY IN ACCORDANCE WITH ASTM D698 STANDARD PROCTOR METHOD. PLACE FILL IN 6" TO 8" LAYERS AND COMPACT WITH VIBRATORY TAMPING EQUIPMENT.
- IN GRANULAR SOILS (SANDS AND GRAVEL) THE SOIL SHALL BE MECHANICALLY TAMPED TO A HARD SURFACE IMMEDIATELY PRIOR TO PLACING FOOTING.
- EXISTING FOUNDATIONS:
 - EXISTING FOUNDATIONS SHOWN ON DRAWINGS ARE APPROXIMATE. EXACT CONDITION MUST BE VERIFIED AT TIME OF CONSTRUCTION.
 - UNLESS OTHERWISE NOTED, NEW FOOTINGS SHALL NOT BEAR BELOW EXISTING FOOTINGS.
- BEARING INTO SHALE - ELEVATIONS GIVEN ARE APPROXIMATE AND SHALL BE ADJUSTED TO SUIT FIELD CONDITIONS.
- SEE DRILLED PIER NOTES AND DETAILS FOR ADDITIONAL REQUIREMENTS.
- LOCATE EXISTING UNDERGROUND UTILITIES IN AREAS OF CONSTRUCTION. COORDINATE WITH UTILITY COMPANIES FOR ANY SHUT-OFF REQUIREMENTS OF STILL ACTIVE LINES.
- WHEN EXCAVATIONS APPROACH THE GROUND WATER LEVEL, THE WATER LEVEL SHALL BE LOWERED BY AN ACCEPTABLE DEWATERING SYSTEM SO THAT THE WATER LEVEL IS MAINTAINED CONTINUOUSLY AT A MINIMUM OF 2'-0" BELOW THE EXCAVATION.
- SHALE CONTAINING PYRITES MUST BE PROTECTED AS INDICATED ON THE DRAWINGS OR IN THE PROJECT SPECIFICATIONS.

DRILLED PIER CONSTRUCTION

- ELEVATIONS NOTED FOR BOTTOM OF DRILLED PIERS ARE APPROXIMATE AND ARE FOR BASE BID PURPOSES ONLY.
- FINAL BEARING ELEVATION SHALL BE ADJUSTED TO MEET THE FOLLOWING CRITERIA:
 - ALL DRILLED PIERS SHALL BEAR LEVEL WITH A MINIMUM EMBEDMENT OF 2'-0" INTO SOLID ROCK.
 - ALL DRILLED PIERS SHALL BE INSTALLED FROM THE LEVEL EXISTING AFTER GENERAL EXCAVATION HAS PROCEEDED TO EXTENT REQUIRED. SEE SPECIFICATIONS FOR TOLERANCES IN DRILLED PIER INSTALLATION. DRILLED PIERS SHALL BE SEALED OFF TO PREVENT ANY INFLOW OF WATER, SILT, SAND, OR SIMILAR MATERIALS DURING INSTALLATION. SUBMIT PROPOSED DRILLED PIER INSTALLATION METHOD TO CONSTRUCTION MANAGER AND ENGINEER FOR REVIEW PRIOR TO START OF ANY DRILLED PIER WORK.
- ALL DRILLED PIERS SHALL BE INSPECTED DURING DRILLING AND PLACING OF CONCRETE. A COMPLETE REPORT OF EACH DRILLED PIER INSTALLED SHALL BE MADE. SEE SPECIFICATIONS FOR REQUIREMENTS OF INSPECTION AND REPORT.
- ALL DRILLED PIERS SHALL BE FILLED WITH 4,500 PSI CONCRETE (28 DAY STRENGTH). NO CONCRETE SHALL BE PLACED UNTIL THE DRILLED PIER HAS BEEN INSPECTED AND APPROVED. AN ACCURATE VOLUME CHECK OF CONCRETE PLACED IN EACH DRILLED PIER SHALL BE MADE BY THE CONTRACTOR AS A CHECK TO VERIFY THE FINAL DIMENSIONS OF THE DRILLED PIER. CONCRETE SHALL BE PLACED THE SAME DAY AS THE FINAL CLEANOUT OF THE EXCAVATION.
- THE CONTRACTOR SHALL ENGAGE A REGISTERED SURVEYOR TO SURVEY THE TOP LOCATION AND CENTERLINES OF DRILLED PIERS AS PLACED. SUBMIT THE SURVEY TO THE ENGINEER BEFORE ANY STRUCTURE IS PLACED ABOVE THE DRILLED PIER. ANY CORRECTIVE MEASURES REQUIRED BECAUSE OF MISALIGNMENT BEYOND THE PERMISSIBLE TOLERANCE IS THE RESPONSIBILITY OF THE DRILLED PIER CONTRACTOR.
- THE LOCATION OF EXISTING SEWER AND UNDERGROUND UTILITIES SHALL BE VERIFIED PRIOR TO THE DRILLING OF DRILLED PIERS. IF NEW DRILLED PIERS AS SHOWN ON PLAN WILL ENCROUGH UPON THOSE EXISTING STRUCTURES, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR DIRECTION PRIOR TO PLACING DRILLED PIERS.
- SHALE SPOILS SHALL BE REMOVED FROM SITE AND SHALL NOT BE USED FOR FILL.
- LOCATION OF EXISTING FOUNDATIONS AS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND ARE INTENDED TO SHOW WHERE FORMER STRUCTURES EXISTED. THE PURPOSE OF SHOWING EXISTING FOUNDATIONS IS TO INDICATE THAT OBSTRUCTIONS MAY BE ENCOUNTERED IN DRILLING. DRILLING THROUGH ANY OBSTRUCTIONS IS THE CONTRACTOR'S RESPONSIBILITY UNDER BASE BID.

CONCRETE CONSTRUCTION

- ALL CONCRETE CONSTRUCTION TO BE IN ACCORDANCE WITH THE LATEST BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 318 AND ACI DETAILING MANUAL, EXCEPT THAT CONSTRUCTION AND REMOVAL OF FORMS AND RESHORING SHALL BE INSPECTED BY THE CONTRACTOR'S ENGINEER.
- FURNISH BAR SUPPORTS WHERE NECESSARY DURING CONSTRUCTION.
- ALL EXPOSED CORNERS OF CONCRETE BEAMS, COLUMNS, WALLS, AND STEEL MEMBERS ENCASED IN CONCRETE ARE TO BE CHAMFERED 45 DEGREES. MINIMUM CHAMFER TO BE 1/2".
- ALL EXPOSED CONCRETE SUBJECT TO FREEZING AND THAWING TO HAVE A MINIMUM CEMENT CONTENT OF 6 BAGS PER YARD, A MAXIMUM WATER/CEMENT RATIO OF 0.40, AND 6% +/- 1% OF ENTRAINED AIR. REINFORCING FOR SLABS ON GROUND (IN FLAT SHEETS) SHALL BE IN THE MIDDLE OF THE SLAB EXCEPT AS OTHERWISE NOTED AND SHALL BE POSITIVELY SUPPORTED AND MAINTAINED IN THIS POSITION DURING PLACEMENT OF CONCRETE.
- SPICES:
 - LAP ALL COMPRESSION SPICES 30 TIMES THE DIAMETER OF THE LARGER BAR.
 - LAP ALL TENSION SPICES IN ACCORDANCE WITH THE FOLLOWING TABLE. MODIFY LENGTHS AS NOTED:

BAR SIZE	CONCRETE COMPRESSIVE STRENGTH			1. INCREASE SPICE LENGTH BY THE FOLLOWING:
	3,000 PSI	4,000 PSI	5,000 PSI	
#3	21"	19"	17"	1. HORIZONTAL TOP BARS WITH GREATER THAN 12" OF CONCRETE BELOW 2. BAR SPACING LESS THAN 2 BAR DIAMETERS +30% 3. LIGHTWEIGHT CONCRETE +30% 4. EPOXY-COATED TOP BARS +30% 5. EPOXY-COATED OTHER BARS +50%
#4	29"	25"	22"	
#5	36"	31"	28"	
#6	43"	37"	33"	
#7	62"	54"	48"	
#8	71"	62"	55"	
#9	80"	70"	62"	
#10	90"	78"	70"	
#11	100"	87"	78"	

- CONCRETE PROTECTION FOR REINFORCEMENT:
 - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
 - CONCRETE EXPOSED TO EARTH OR WEATHER 2"
 - NO. 6 THROUGH NO. 18 BARS 1 1/2"
 - NO. 5 BAR AND SMALLER 1 1/2"
- CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
 - SLABS, WALLS, AND JOISTS 1 1/2"
 - NO. 14 AND NO. 18 BARS 3/4"
 - NO. 11 BAR AND SMALLER 3/4"
- BEAMS AND COLUMNS 1.1/2"
- PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS 1.1/2"

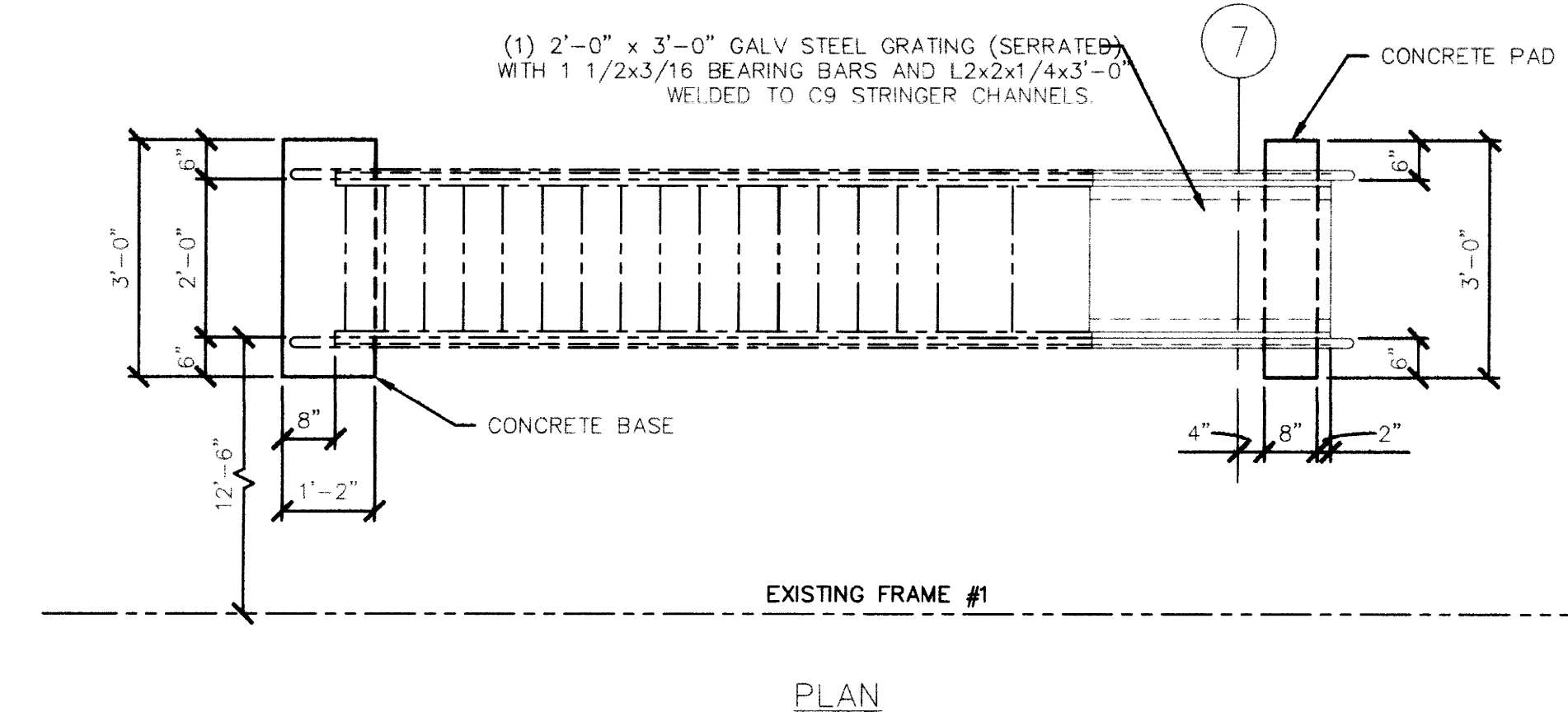
STEEL CONSTRUCTION

- STEEL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE LATEST, AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICE, AND THE AWS STRUCTURAL WELDING CODE.
- CONNECTIONS - WELDED OR HIGH STRENGTH BOLTED.
 - A325SC WITH HARDENED WASHERS - USE FOR ALL MOMENT CONNECTIONS, HANGERS, AND OTHER CONNECTIONS AS NOTED ON DRAWINGS.
 - A325N WITH HARDENED WASHERS - USE FOR ALL CONNECTIONS OTHER THAN SLIP CRITICAL CONNECTIONS.
- UNLESS SNUG TIGHT CONNECTIONS ARE NOTED ON THE DRAWINGS AS BEING PERMITTED, ALL BOLTS SHALL BE TIGHTENED TO FULL PRE-TENSIONING LOAD.
- USE STANDARD HOLES WITH THE FOLLOWING EXCEPTIONS: OVERSIZE HOLES ARE PERMITTED WHEN BOLTS ARE LOADED IN TENSION; SHORT SLOTTED HOLES ARE PERMITTED FOR SHEAR LOADING PERPENDICULAR TO THE SLOT.
- WHEREVER POSSIBLE USE FRAMED BEAM CONNECTIONS AS LISTED IN TABLES II, III, IV OR X OF THE AISC MANUAL OF STEEL CONSTRUCTION, LATEST EDITION. THE LENGTH OF CONNECTION ANGLES SHALL BE NOT LESS THAN ONE-HALF OF THE T DISTANCE OF THE BEAM WEB.
- WHERE REACTION IS NOTED, DEVELOP SAME. WHERE NOT NOTED, FOR NON-COMPOSITE BEAMS, CONNECTIONS SHALL DEVELOP ONE-HALF OF THE TOTAL UNIFORM LOAD CAPACITY OF THE BEAM; FOR COMPOSITE BEAMS, SEE TABLE.
- WELDING ELECTRODES SHALL BE E70XX EXCEPT WHERE OTHER ELECTRODES ARE REQUIRED FOR COMPATIBILITY WITH MATERIAL BEING WELDED.
- ALL SLIP CONNECTIONS SHALL BE PROVIDED WITH A MEANS OF PREVENTING THE NUTS FROM UNTHREADING.
- SHOP DRAWINGS ARE REQUIRED AND SHALL NOTE TYPE OF ELECTRODES, SIZE OF ALL WELDS, AND TYPE AND SIZE OF ALL BOLTS. SHOP DRAWINGS SHALL BE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER.
- SEE SPECIFICATIONS FOR ALL PAINTING REQUIREMENTS.
- ALL SHOP AND FIELD WELDING SHALL BE DONE BY A CERTIFIED WELDER.
- ALL STRUCTURAL STEELS OTHER THAN ASTM A992 SHALL HAVE A POSITIVE METHOD OF IDENTIFICATION. THIS IDENTIFICATION SHALL BE VISIBLE THROUGHOUT FABRICATION AND ERECTION. METHOD OF IDENTIFICATION SHALL BE CLEARLY INDICATED ON THE SHOP DRAWINGS.
- WELD TO EXISTING STEEL AS SHOWN ON DRAWINGS.
- MISCELLANEOUS HANGING LOADS SUCH AS STAR STRINGERS, PIPES, MECHANICAL UNITS, ETC., SUPPORTED BY STEEL MEMBERS SHALL HAVE THESE LOADS APPLIED IN SUCH A MANNER THAT NO TORSIONAL FORCES ARE INDUCED IN THESE MEMBERS, I.E., LOADS SHALL PASS THROUGH THE CENTERLINE OF WIDE FLANGE SECTIONS AND THROUGH THE SHEAR CENTER OF CHANNELS.

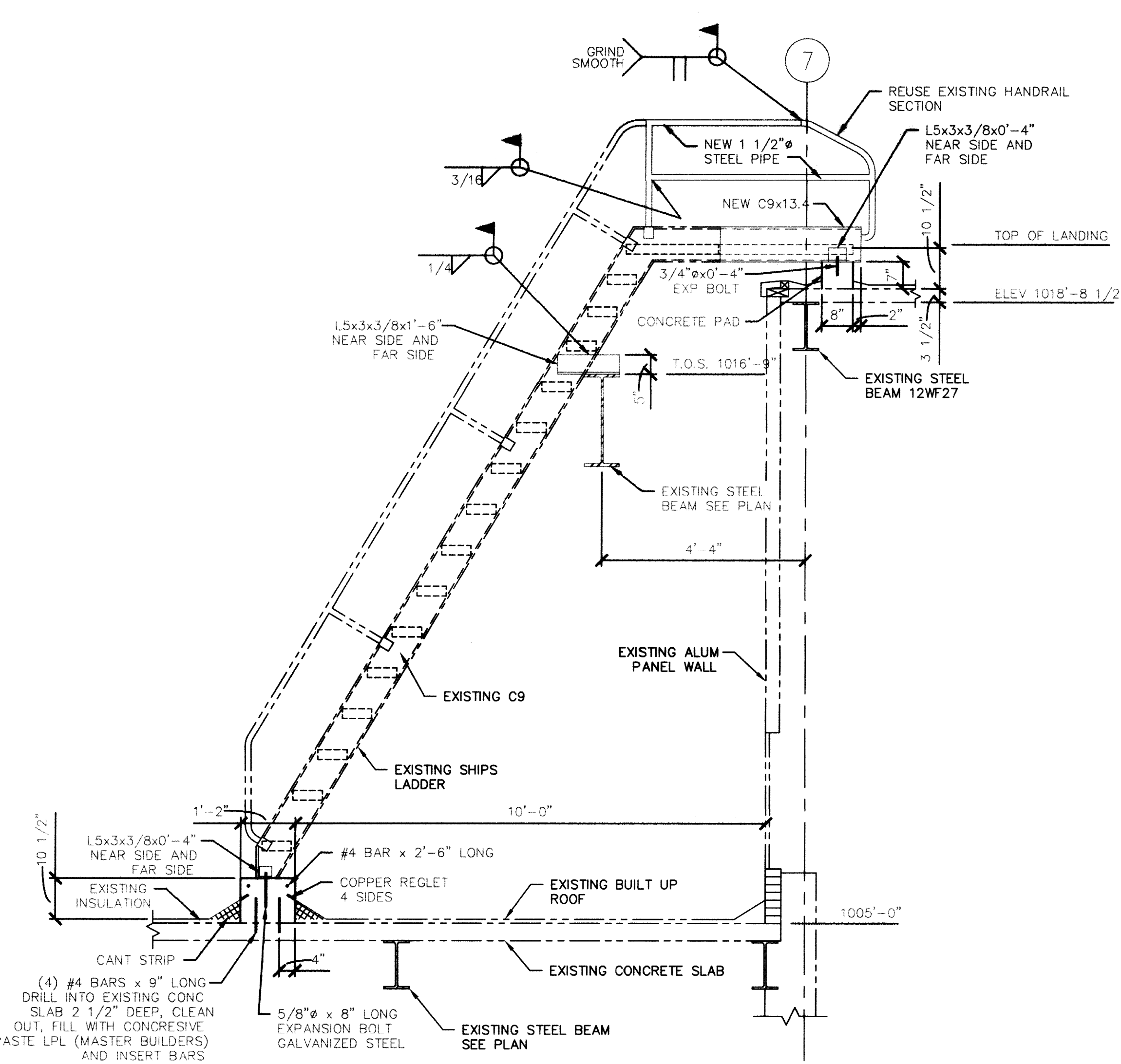
INSPECTION

AN APPROVED INDEPENDENT TESTING LABORATORY SHALL PROVIDE INSPECTION AND TESTING SERVICES PER ASTM E329. REPORTS OF INSPECTION AND TESTING SHALL BE SENT TO THE ARCHITECT. SUCH INSPECTION AND TESTING SHALL INCLUDE:

- CONCRETE: MIX DATA, DAILY POUR REPORTS, CYLINDER TESTS, SLUMP.



PLAN



DETAIL

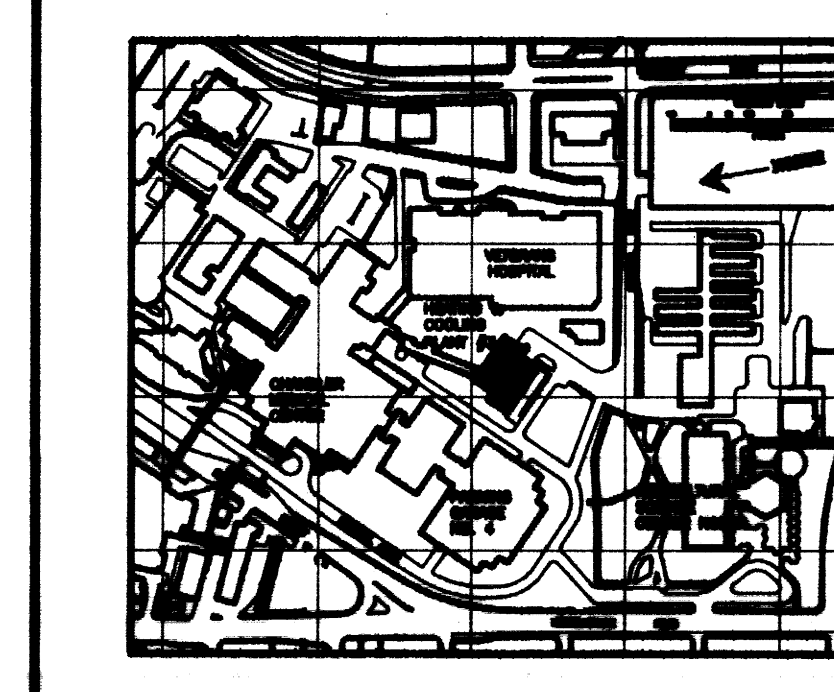
1/2" = 1'-0"

3.3

RECORD DRAWINGS DATE 11/20/2003

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CMW, INC.



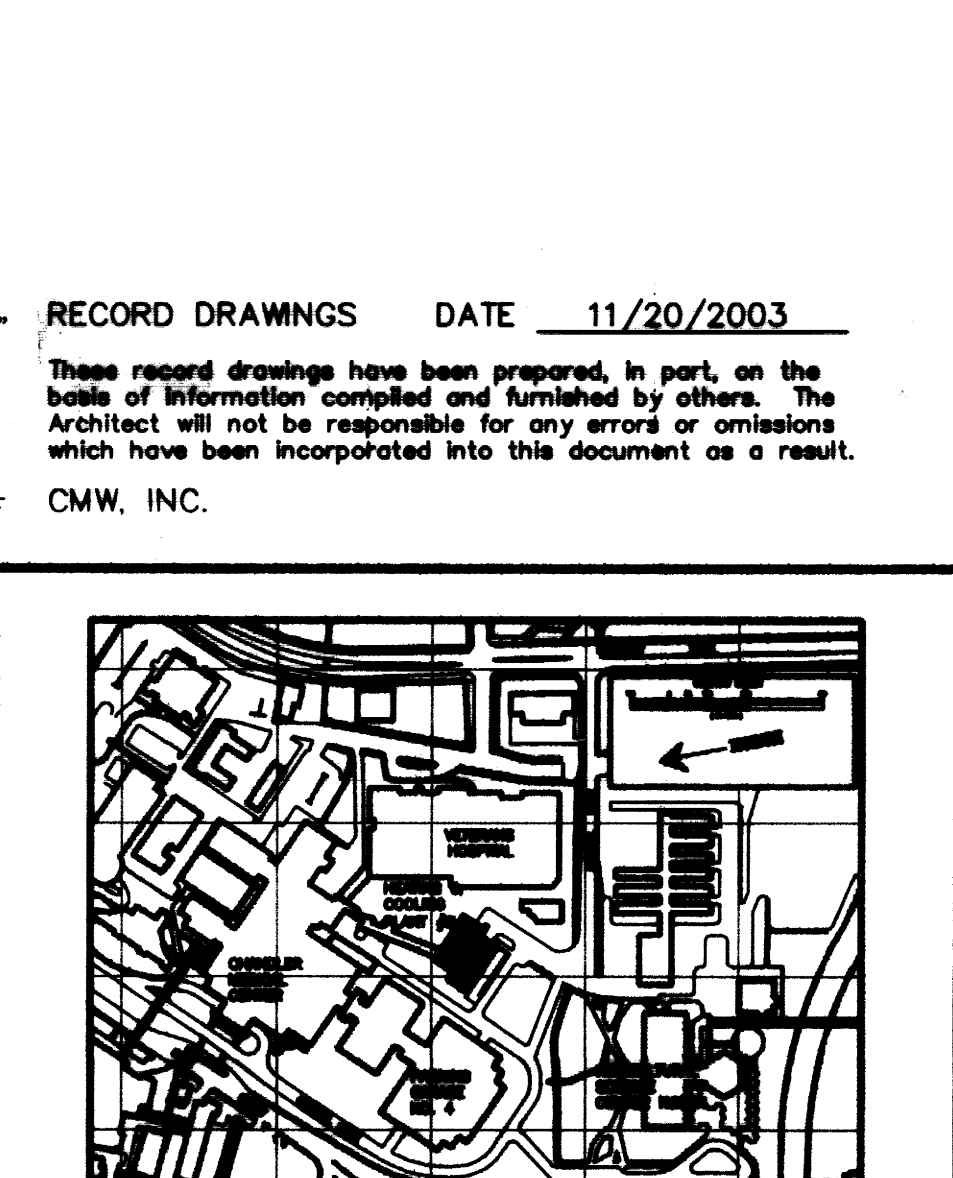
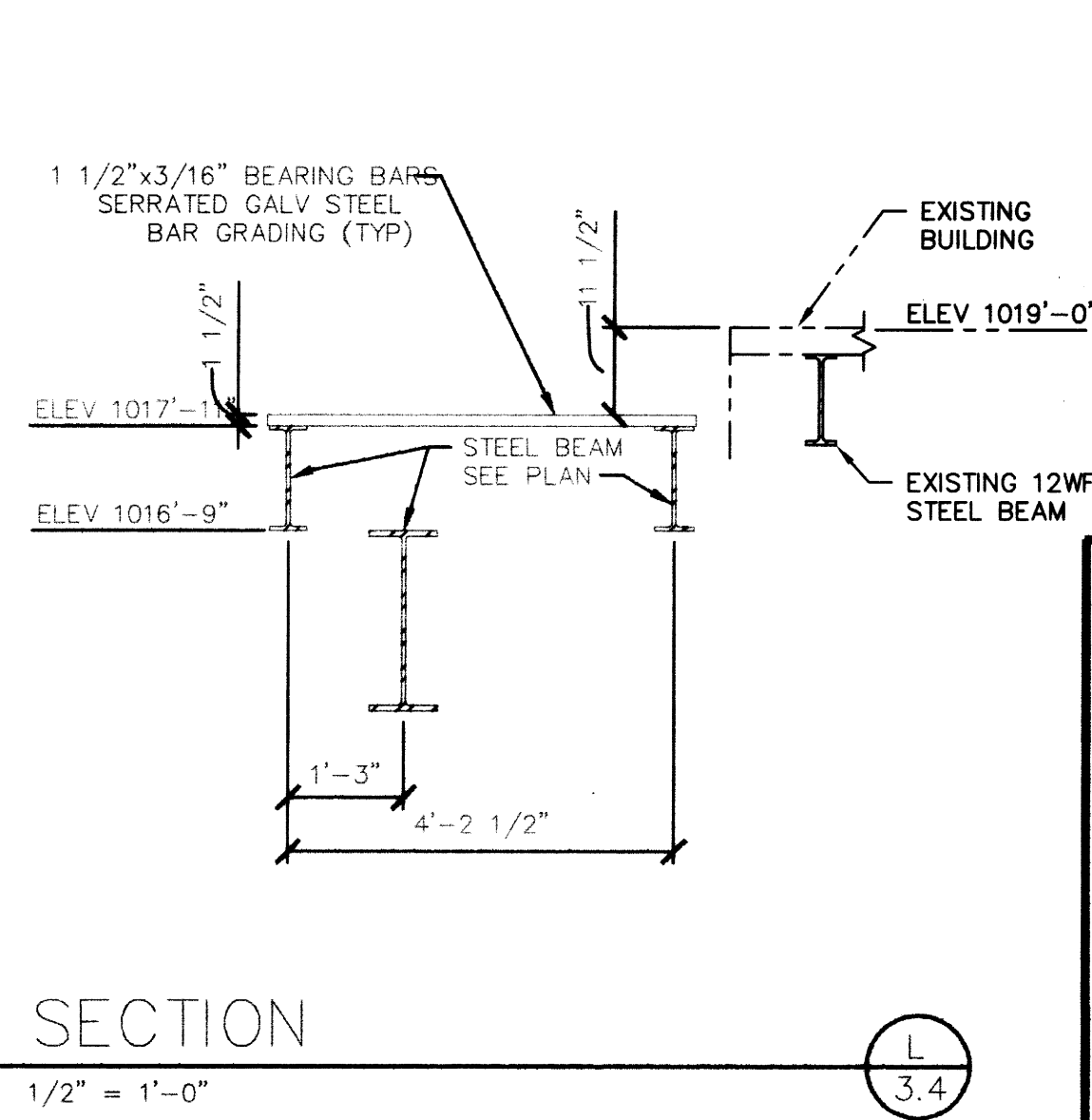
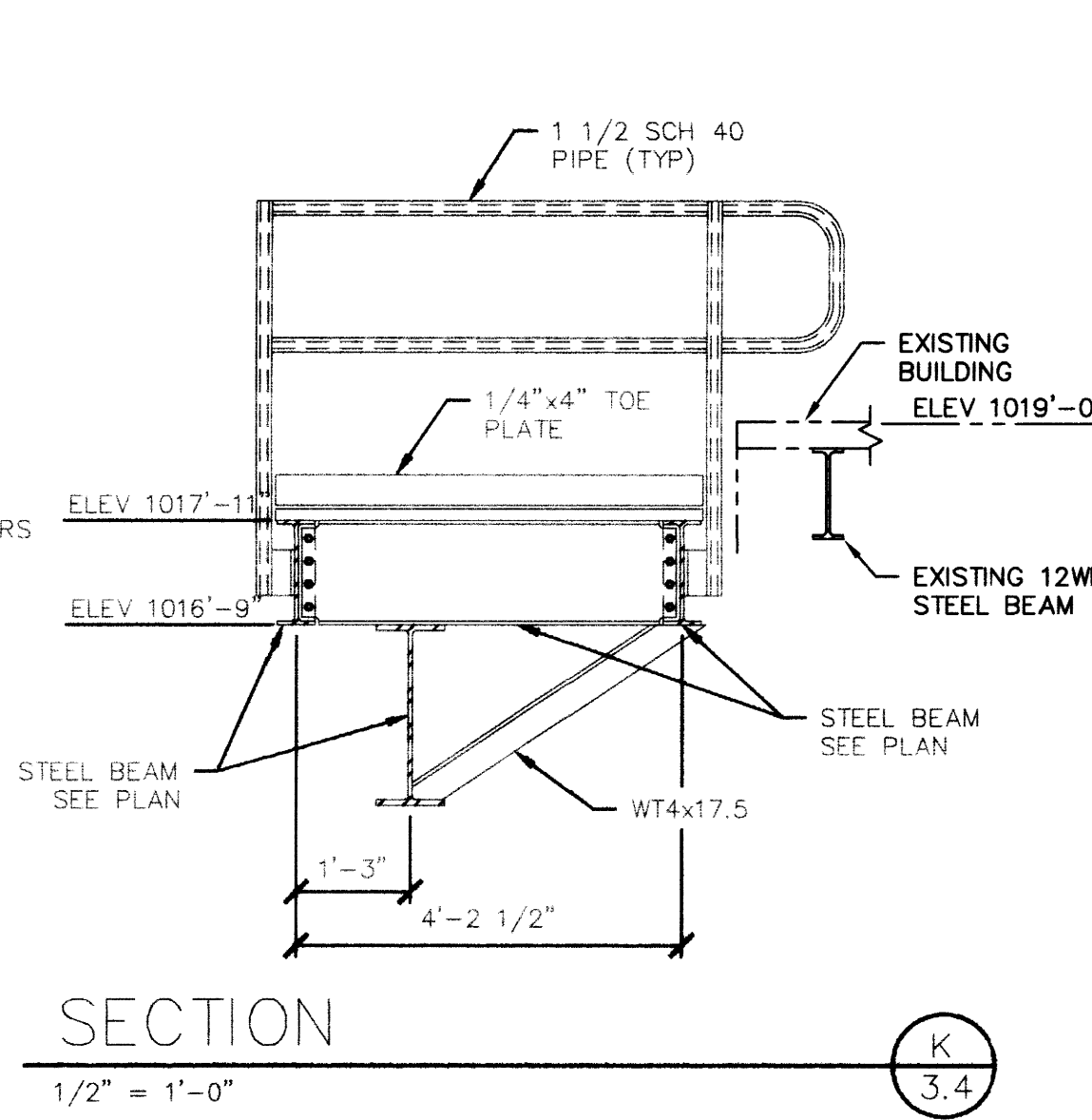
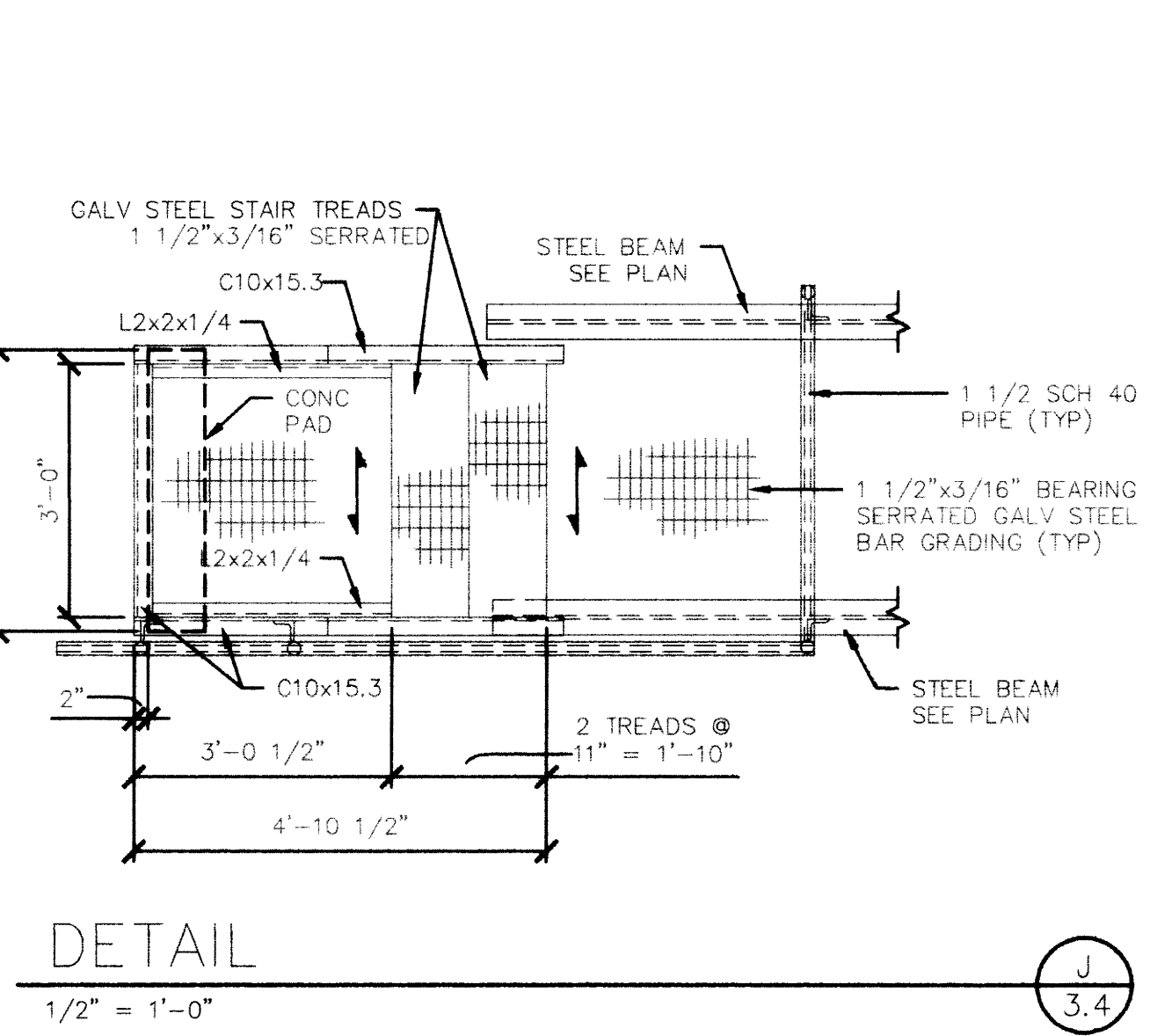
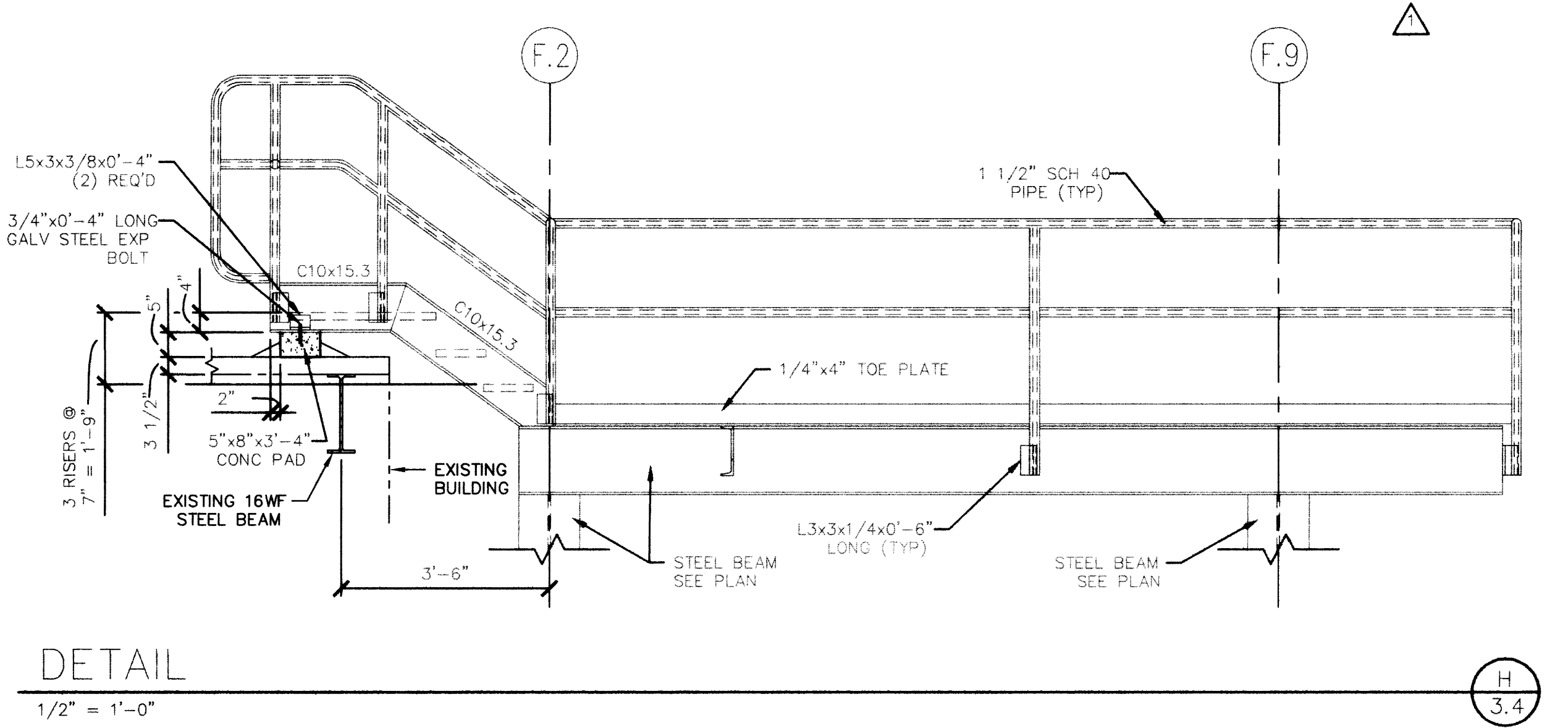
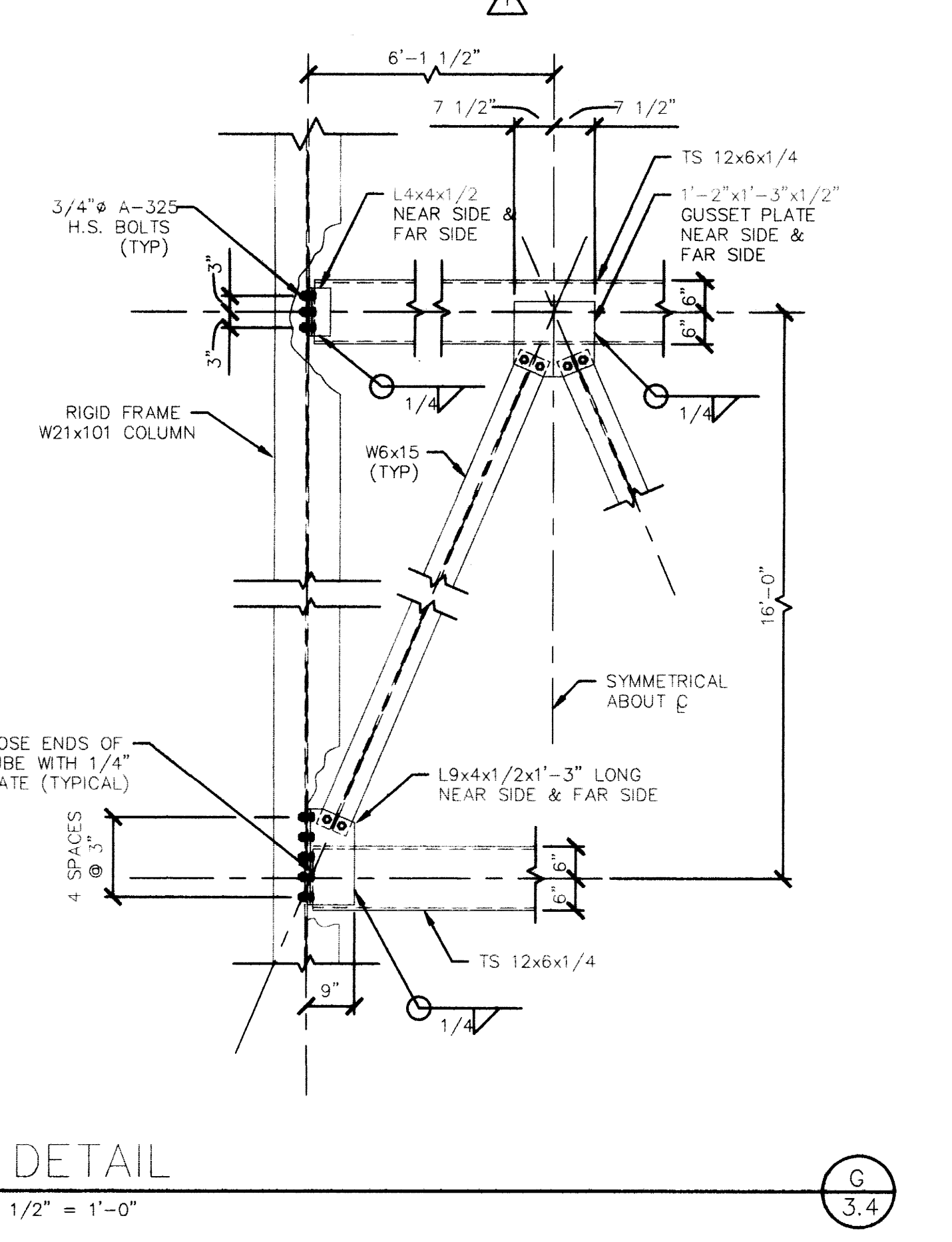
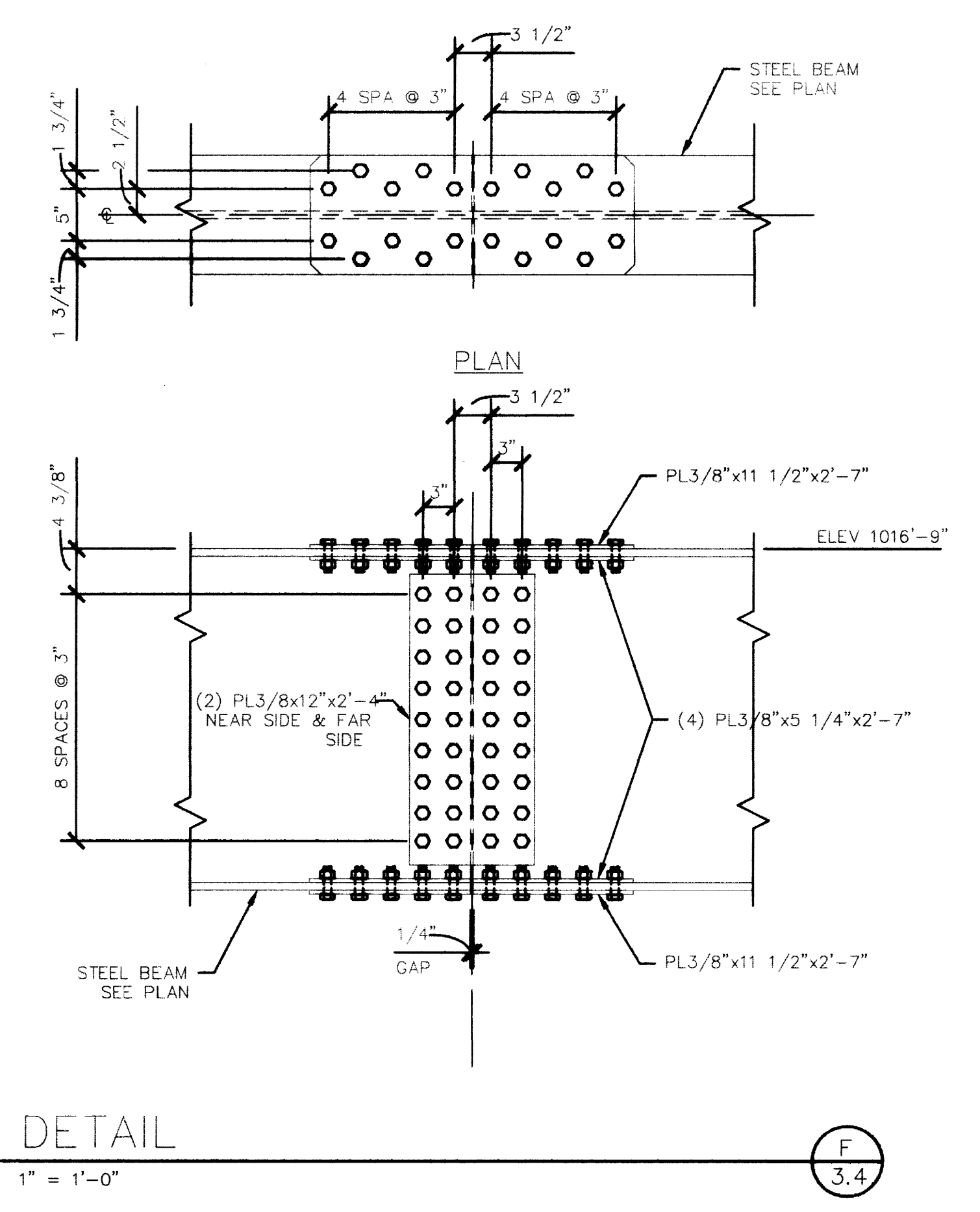
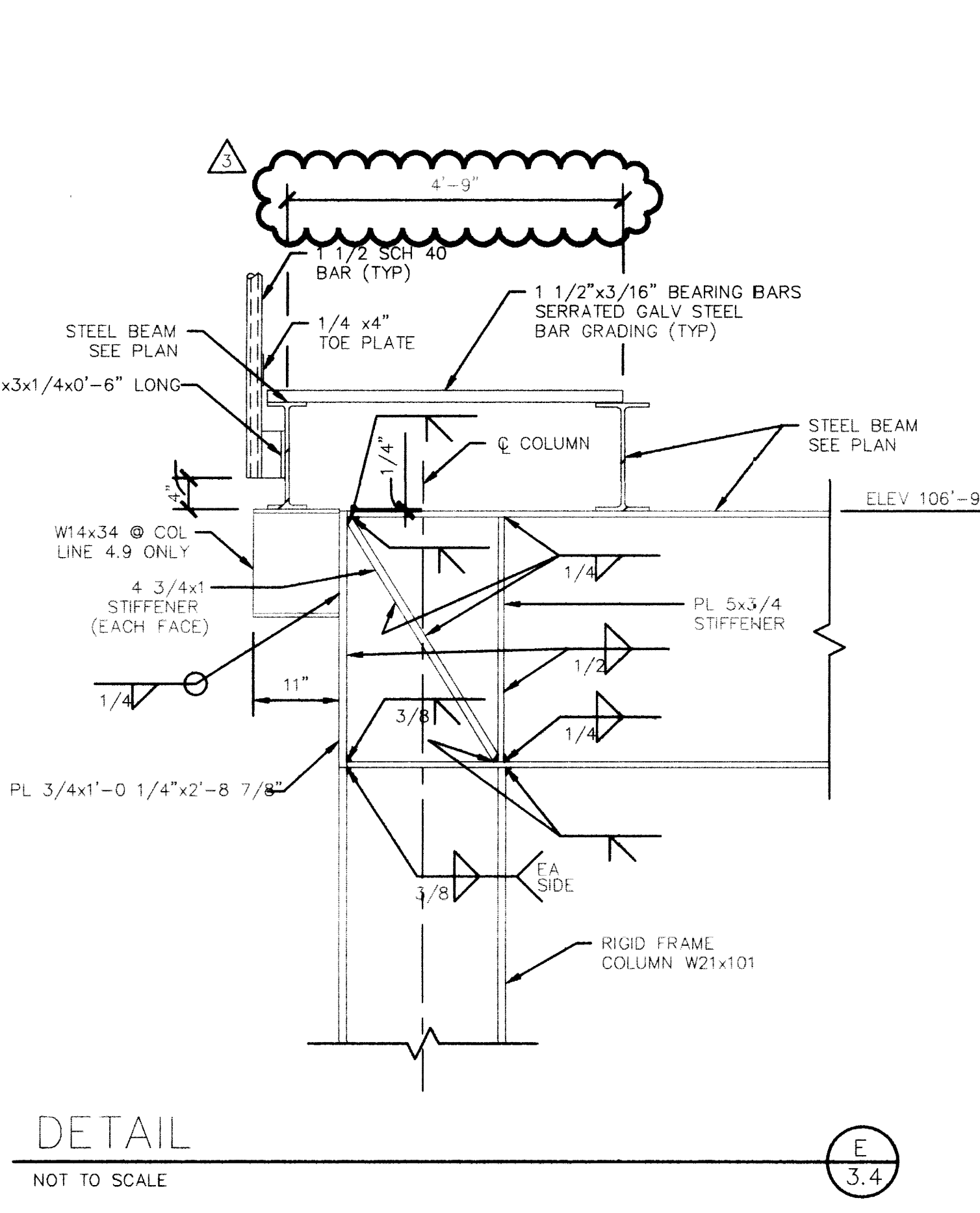
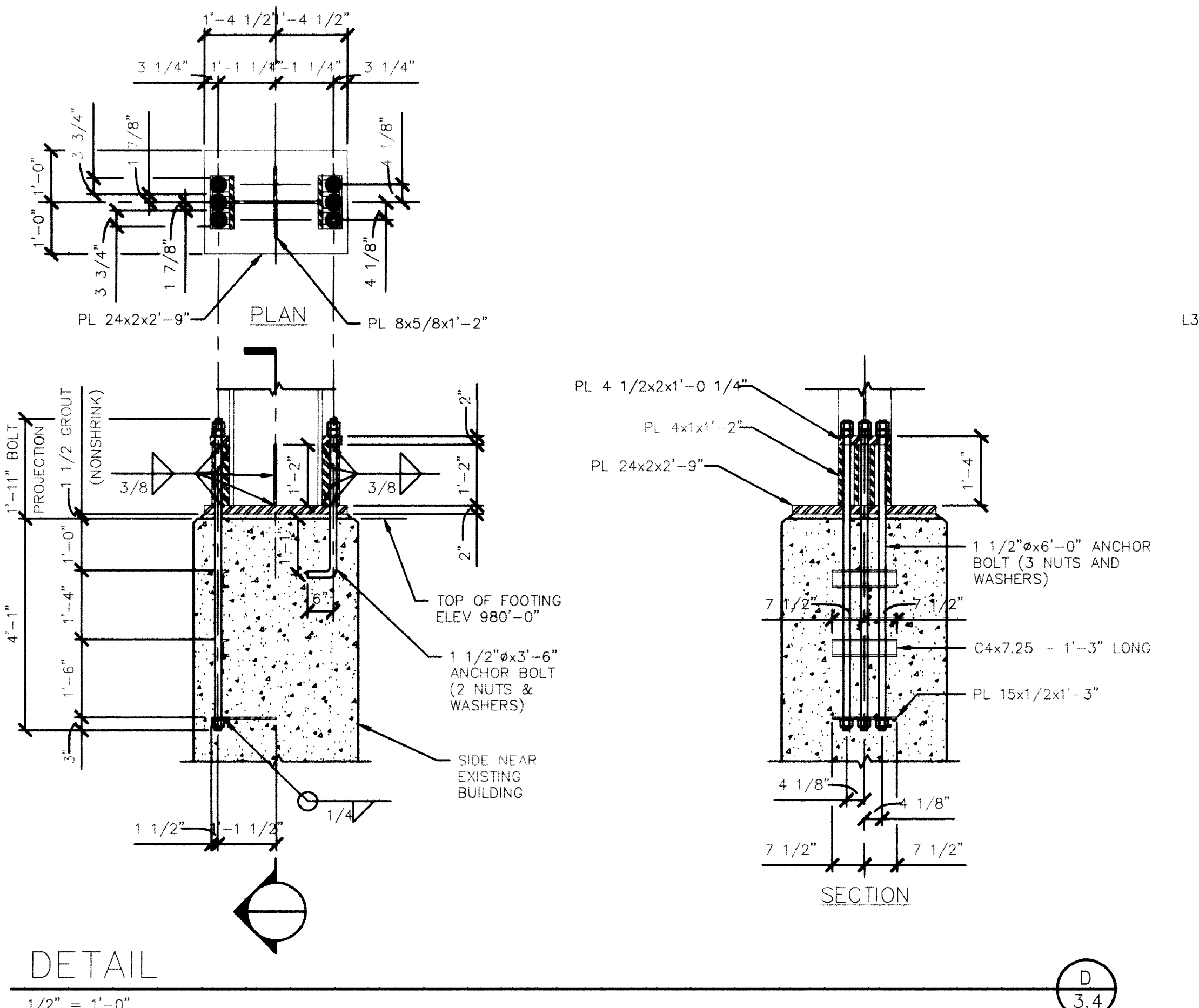
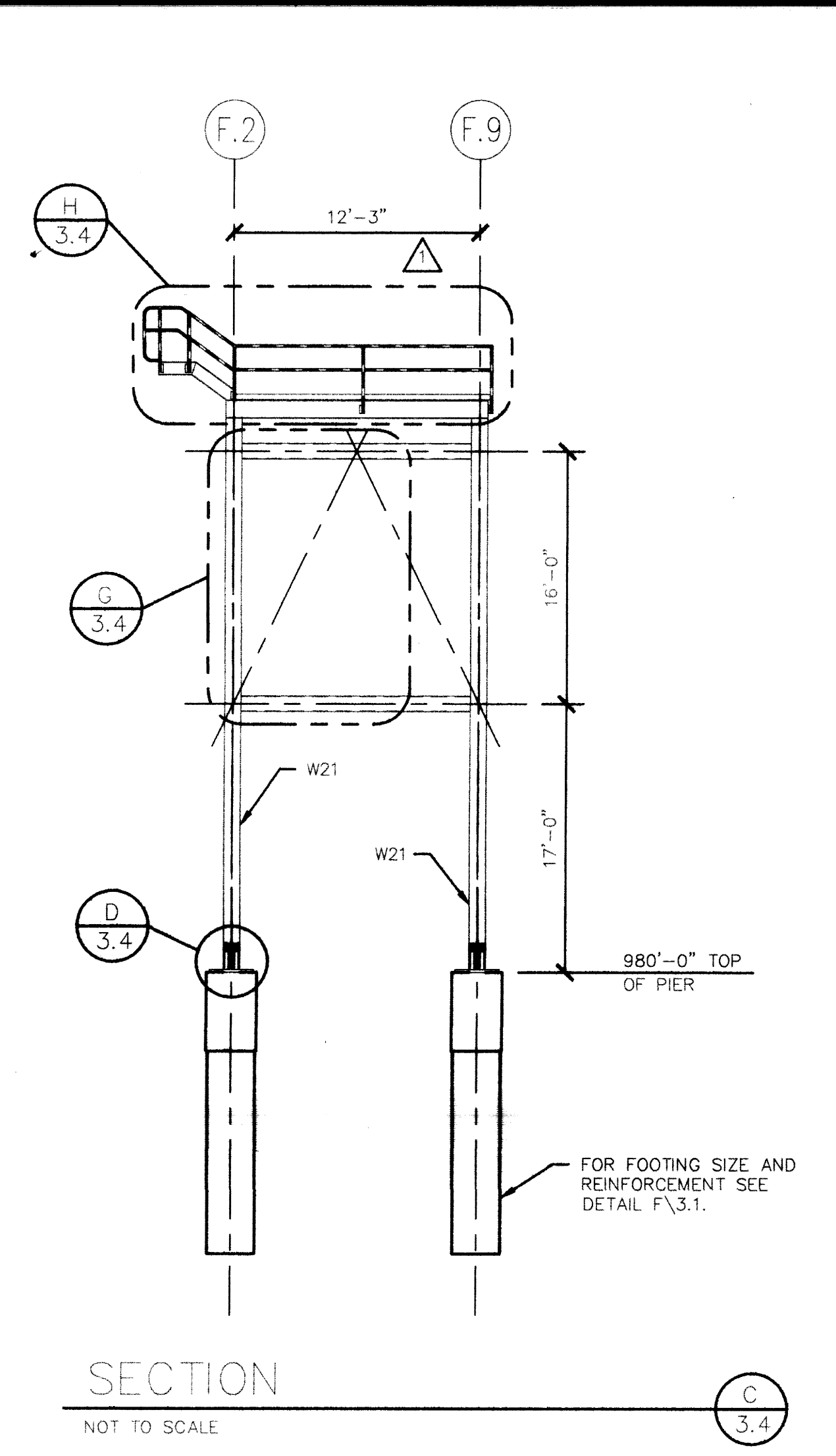
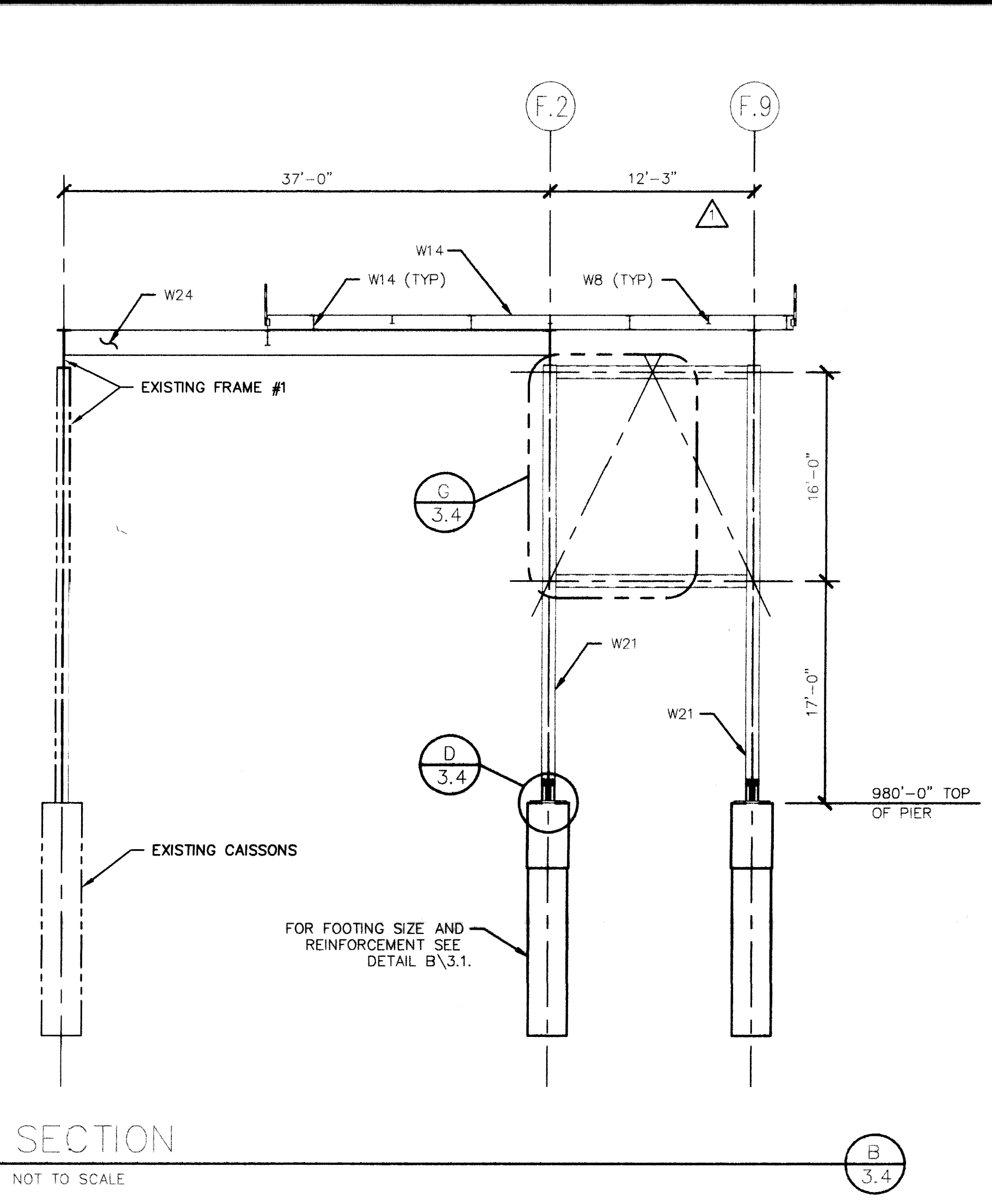
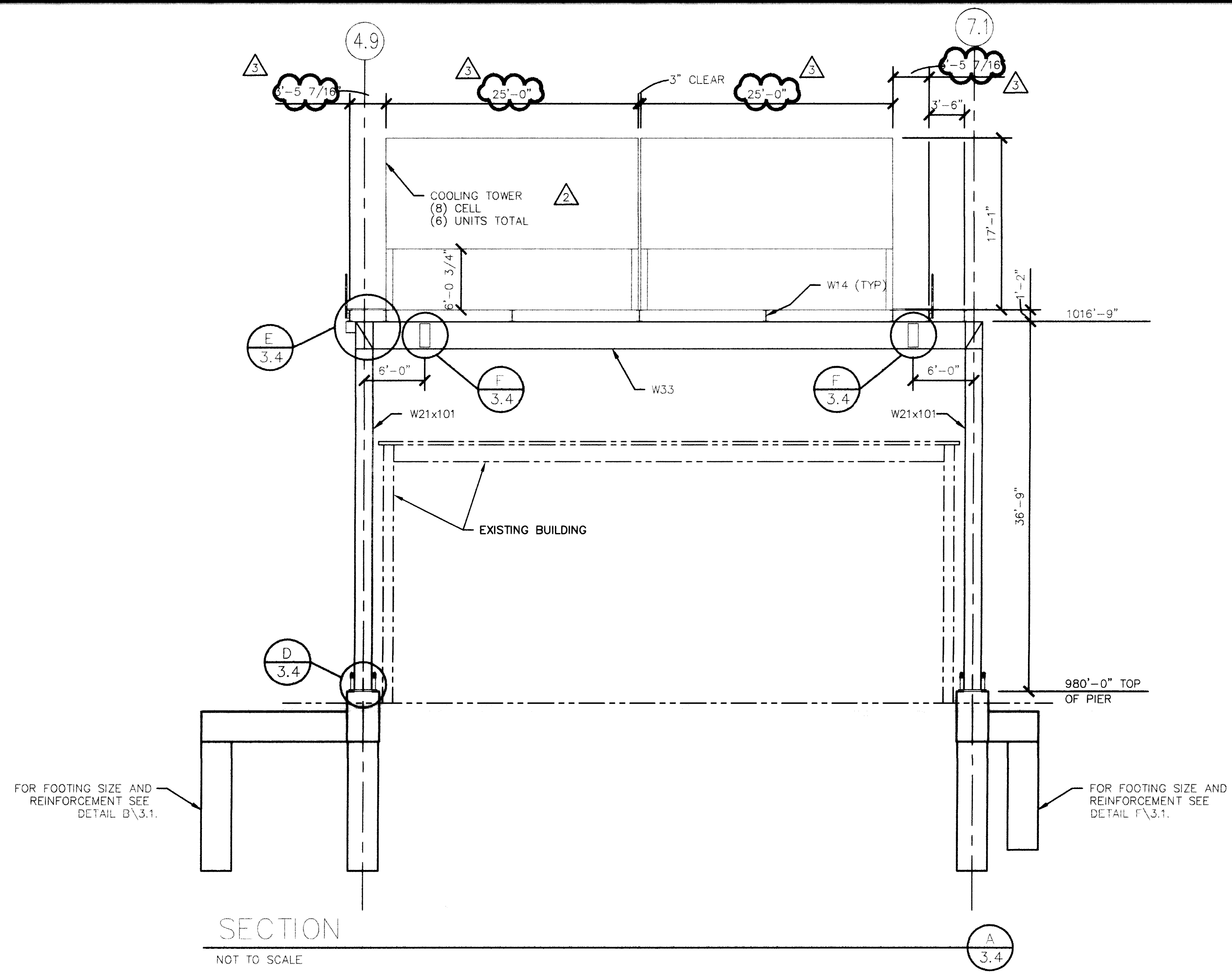
CMW
CHRISTIAN MILLER WOODFORD, INC.
ARCHITECTURE ENGINEERING PLANNING LANDSCAPE ARCHITECTURE
400 E. ONE ST., SUITE 600
LEXINGTON, KENTUCKY 40502

REGISTERED PROFESSIONAL ENGINEER
NO. 10000
EXPIRES 12/31/04

REGISTERED PROFESSIONAL ARCHITECT
NO. 10000
EXPIRES 12/31/04

GENERAL NOTES AND STAIR DETAIL
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

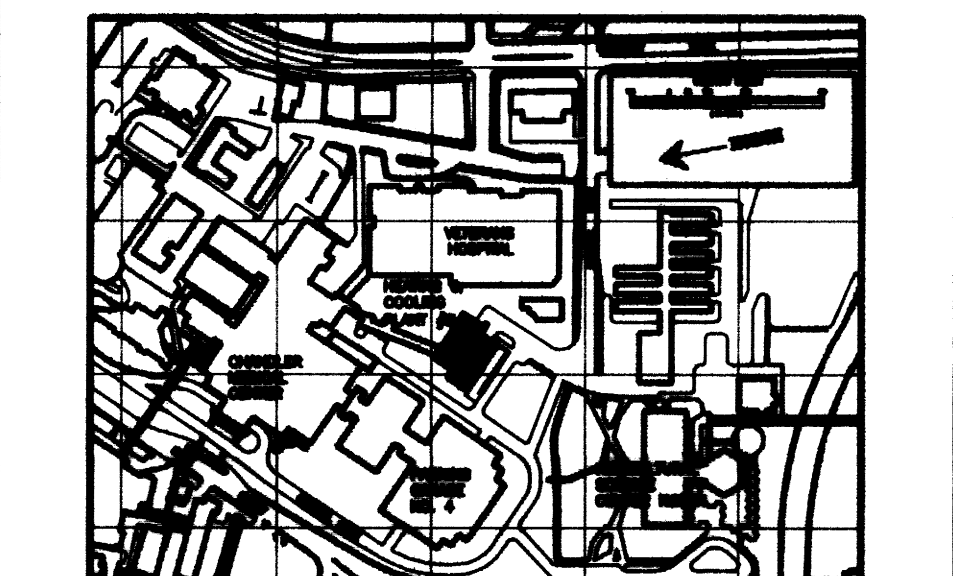
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DATE: DECEMBER
DRAWN BY: HDP
CHECKED BY: JB
REVISOR: #
DATE 08-21-01
SHEET NUMBER
3.3
PROJECT NUMBER
99024.02
UNIVERSITY OF KENTUCKY
SHEET, GENNOTES
AGE, 174, 25-168



SECTIONS AND DETAILS
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

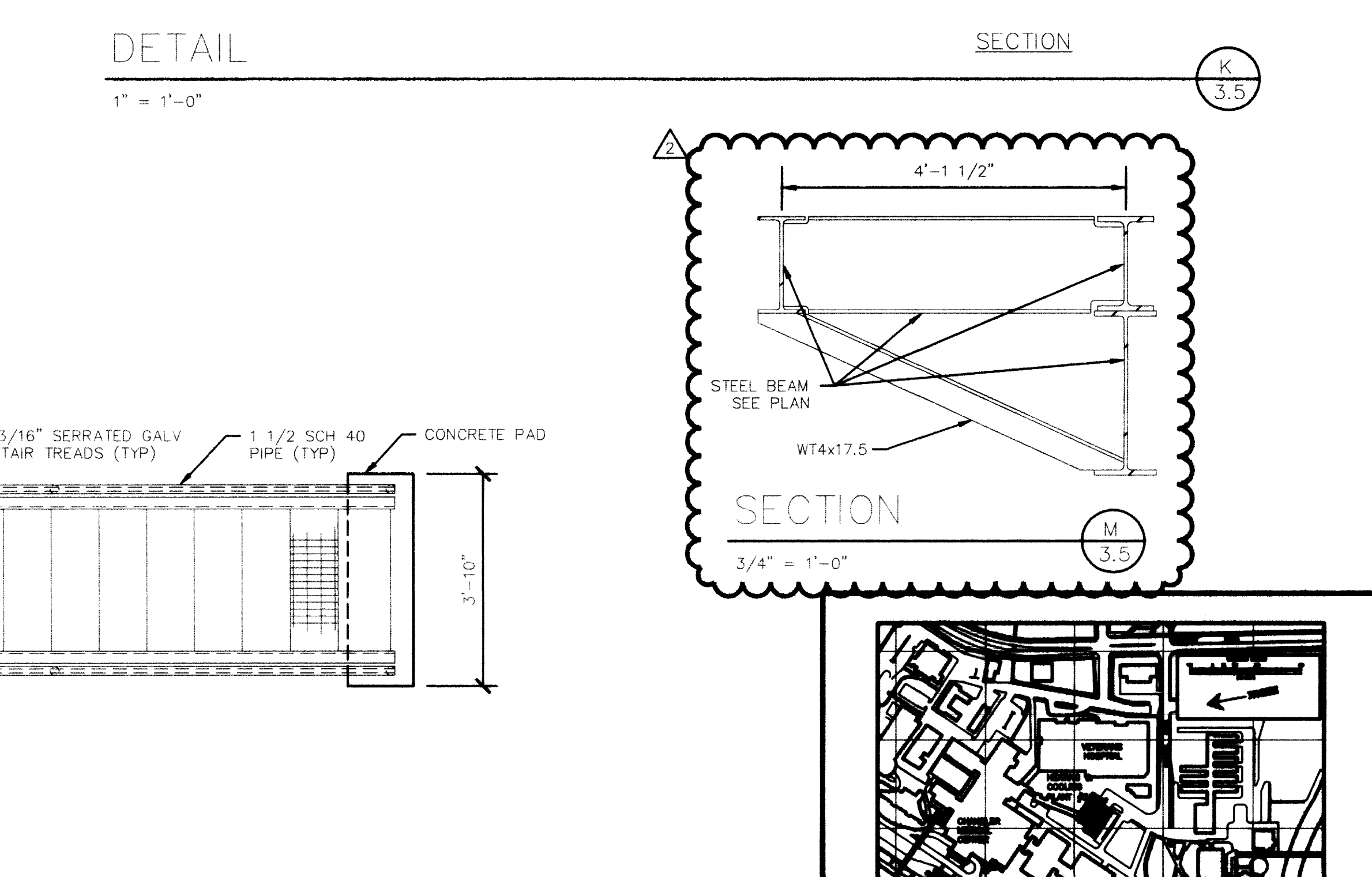
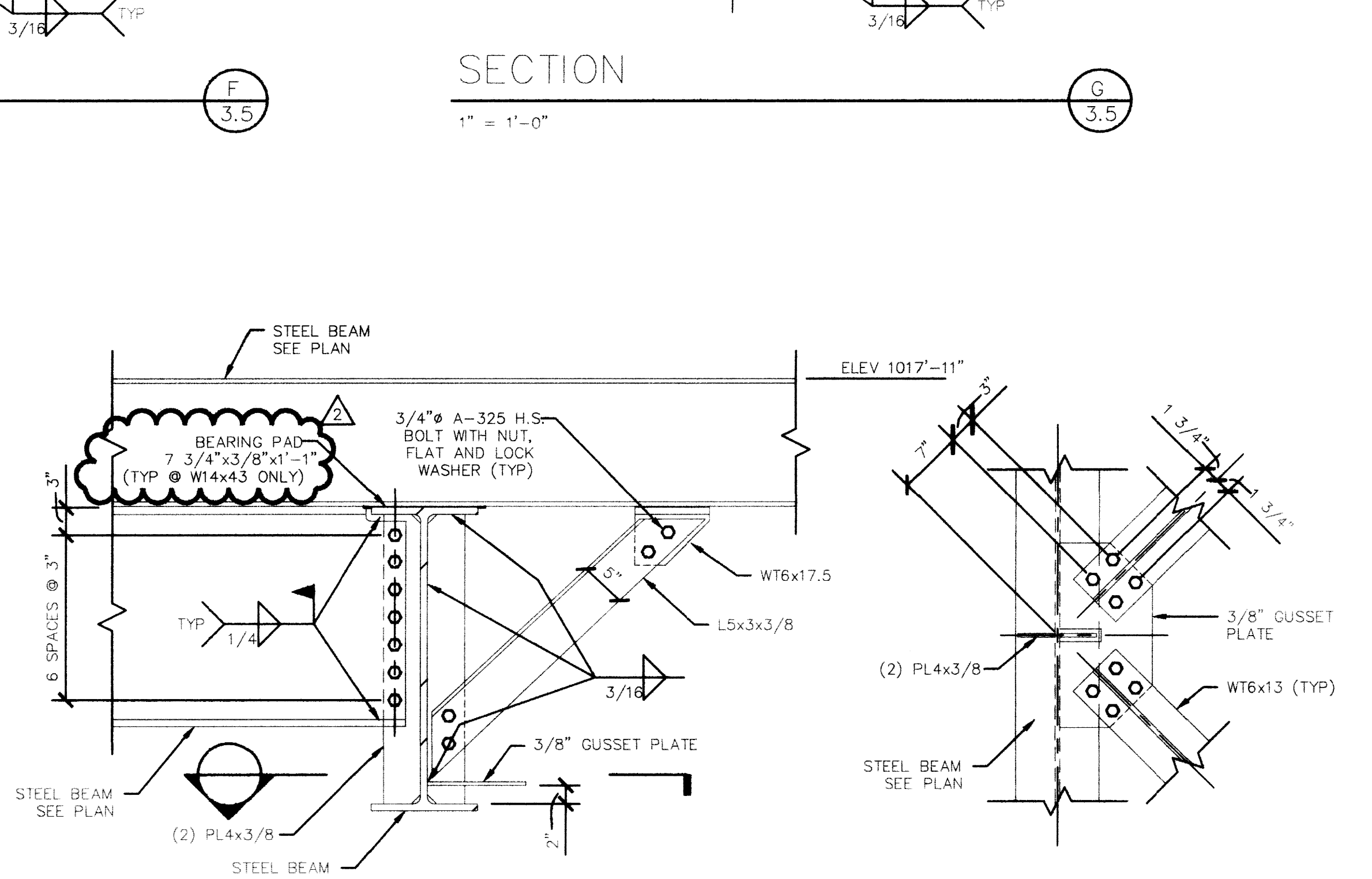
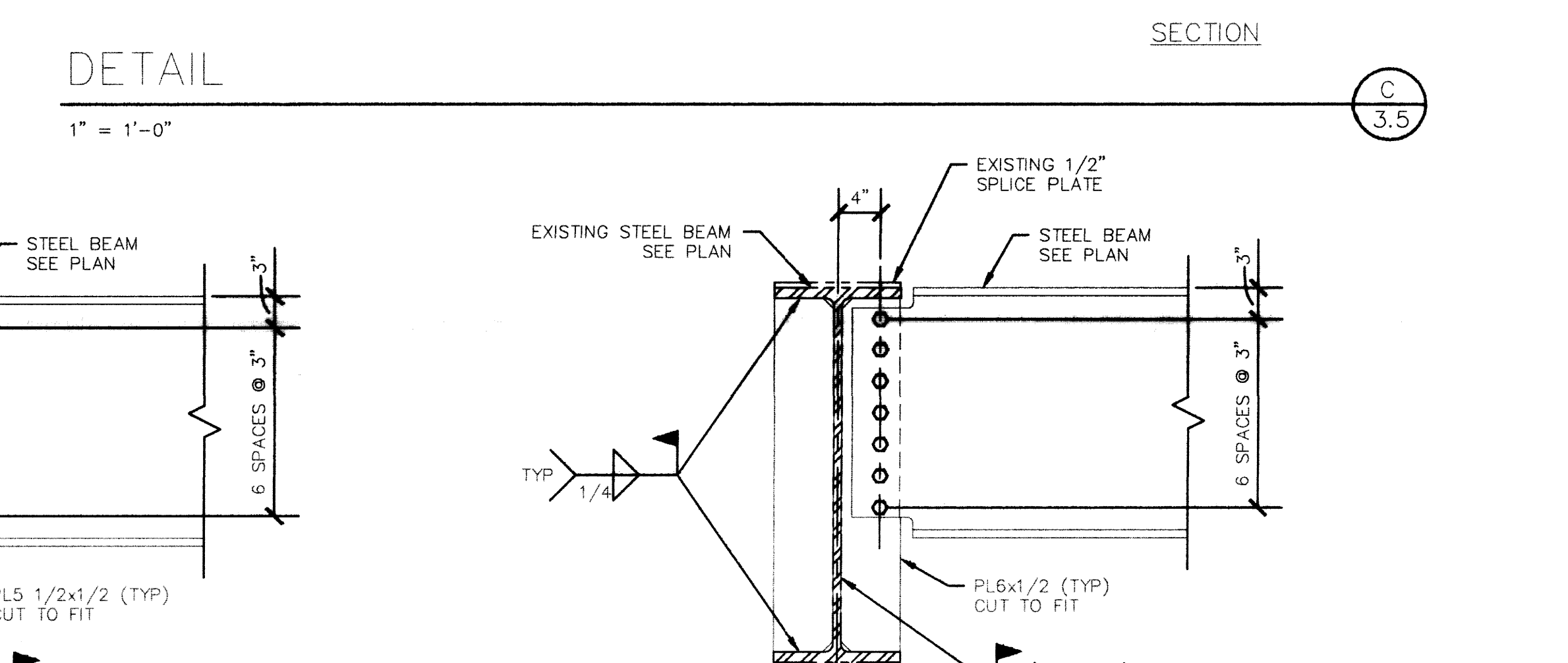
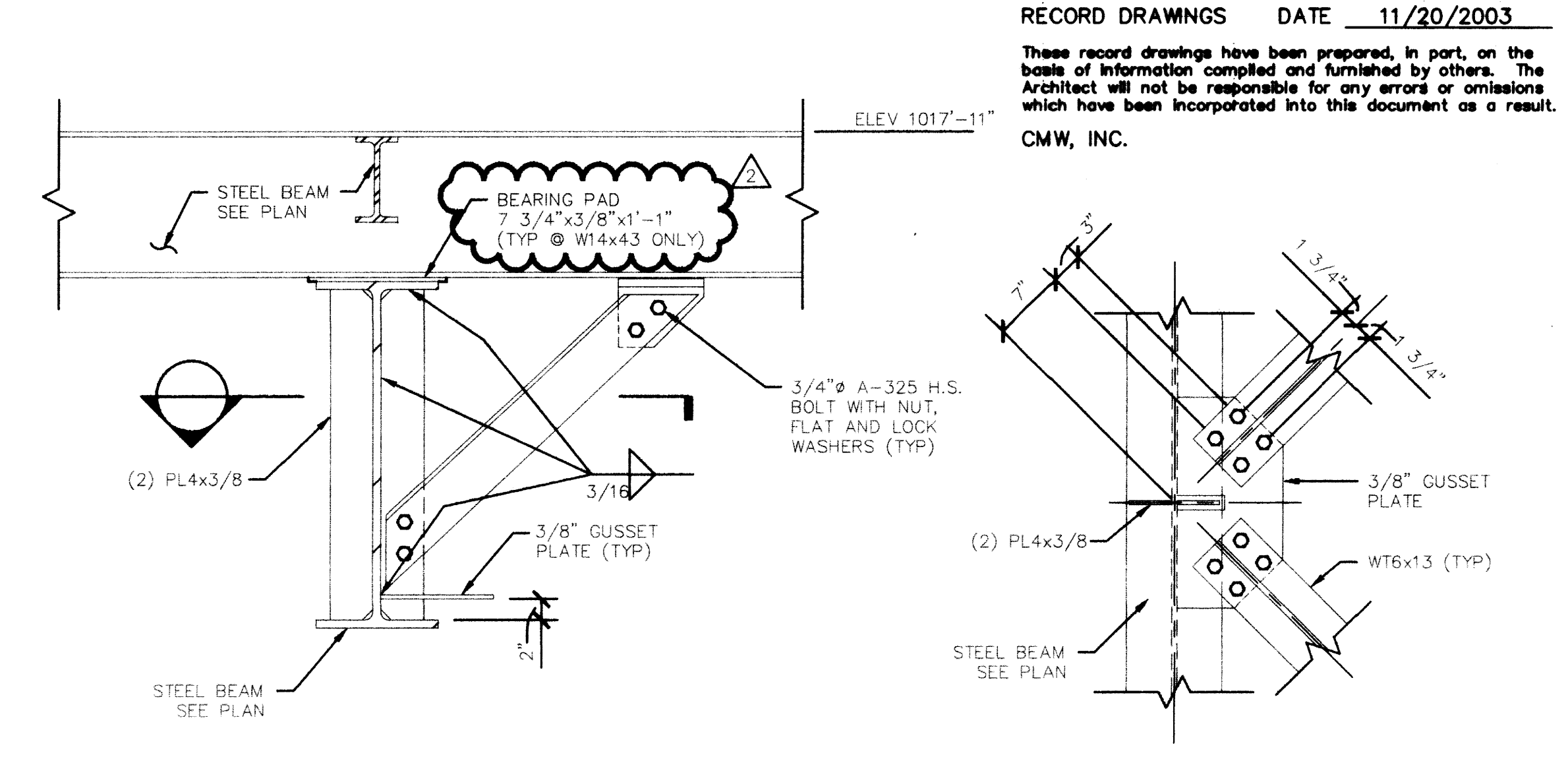
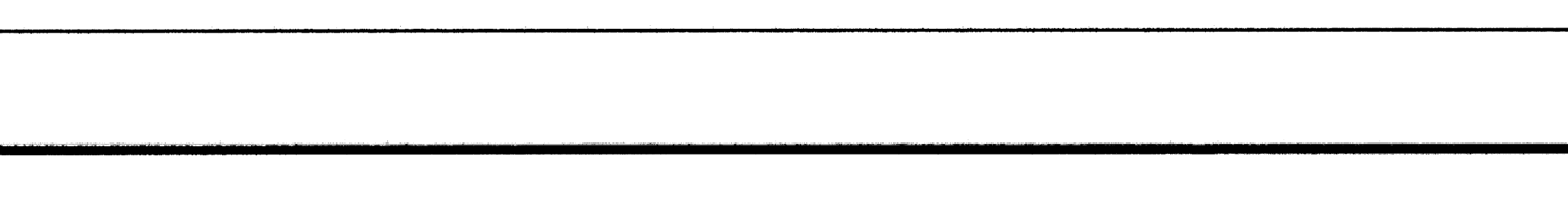
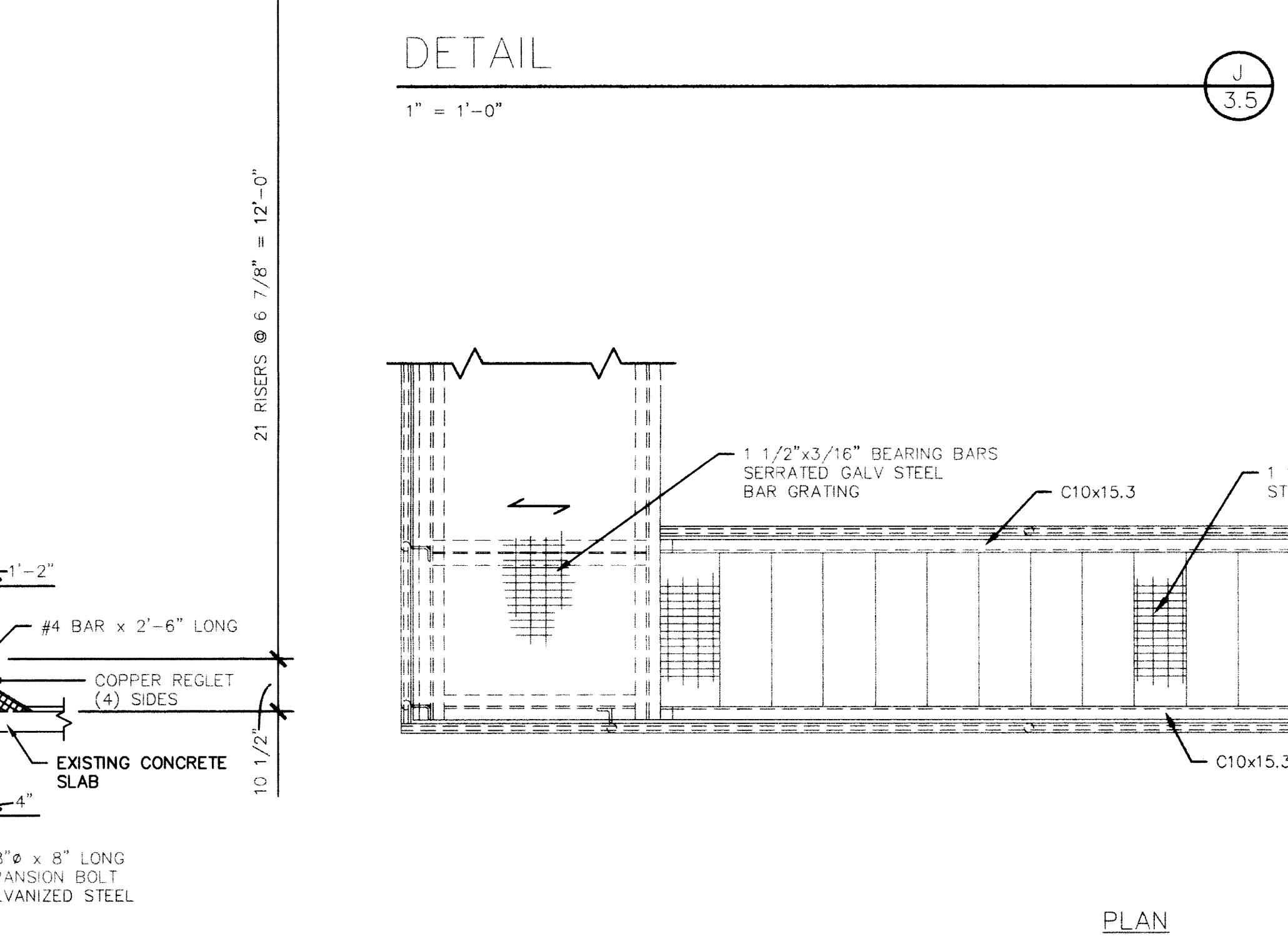
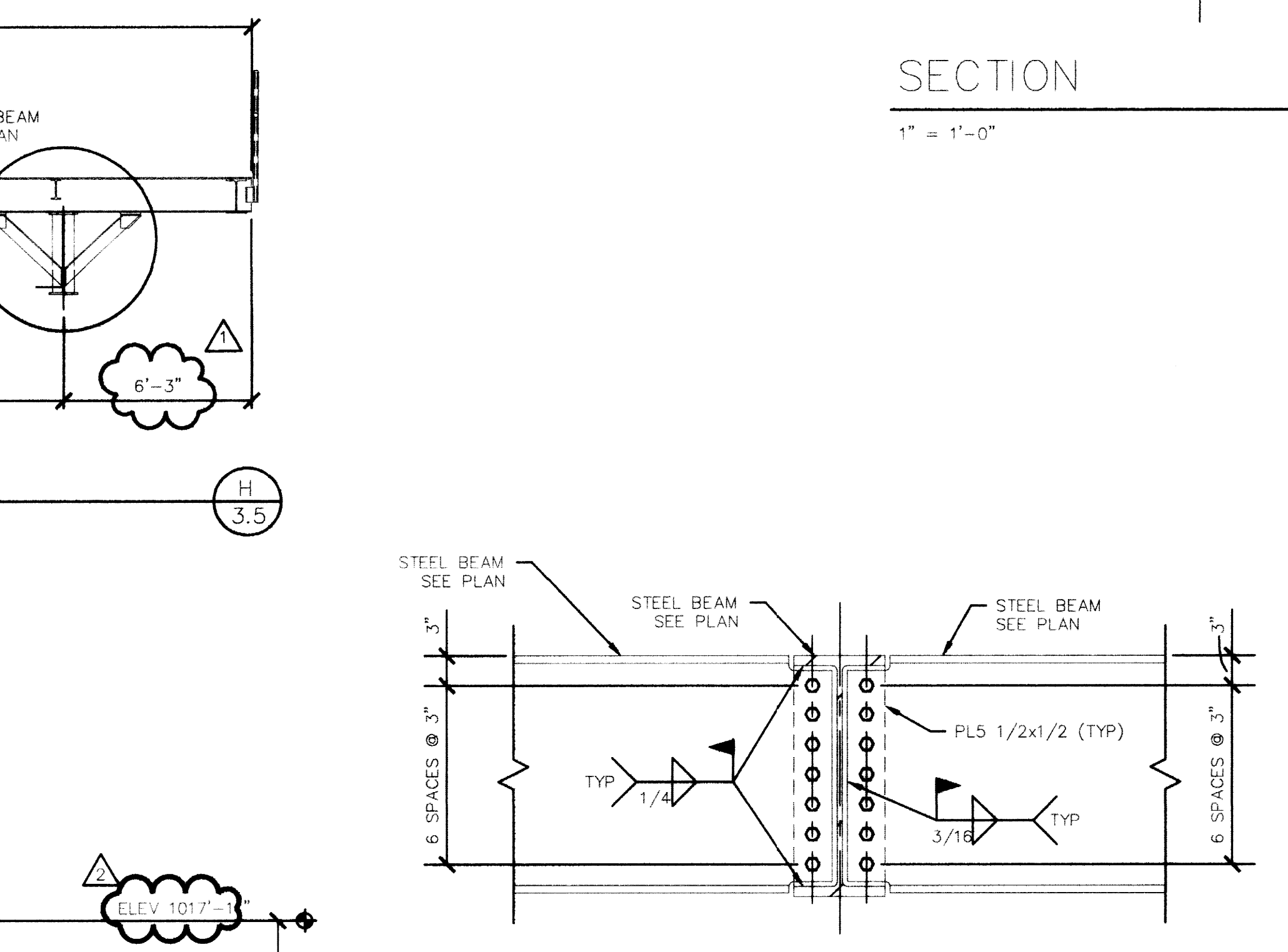
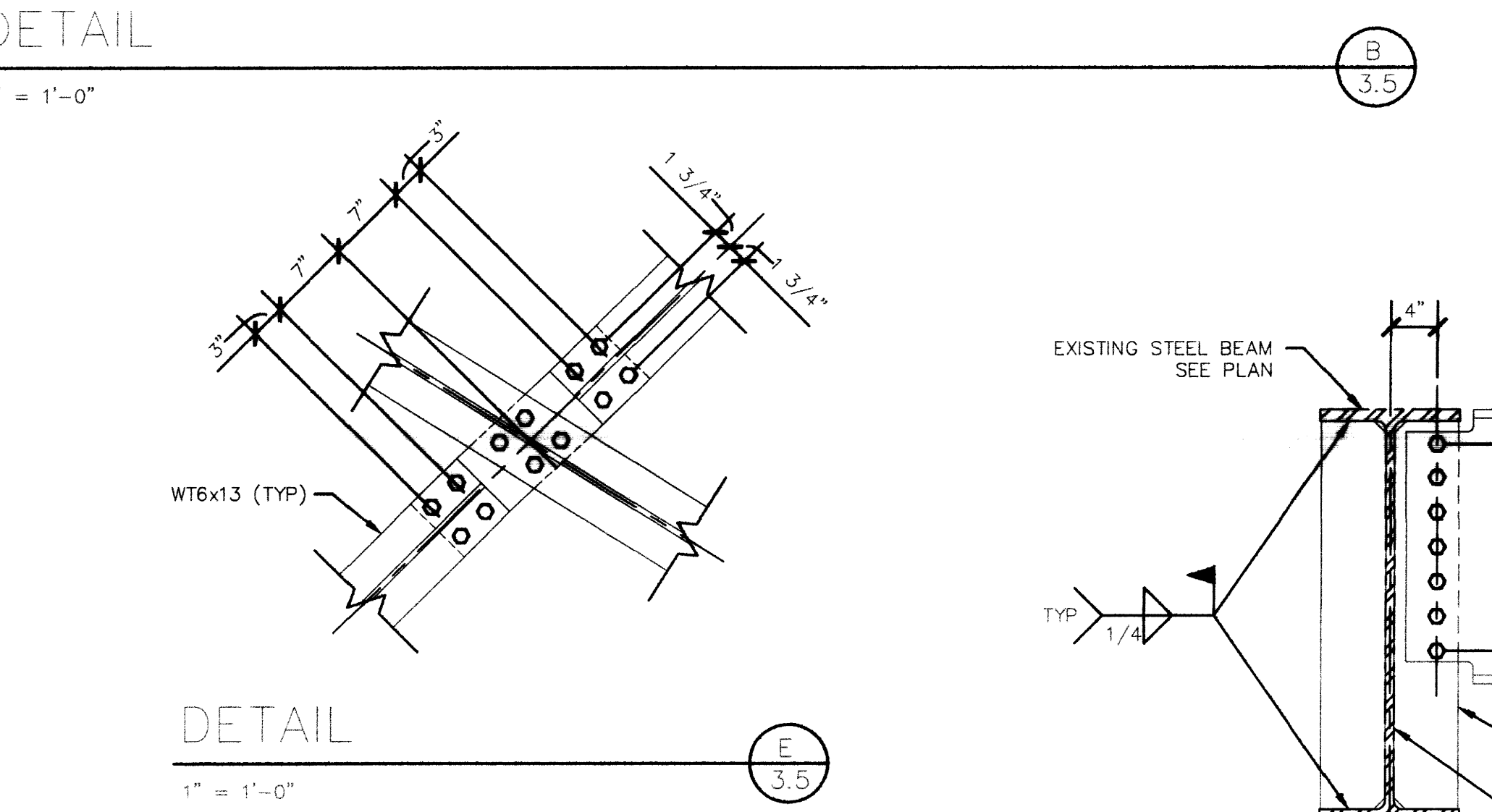
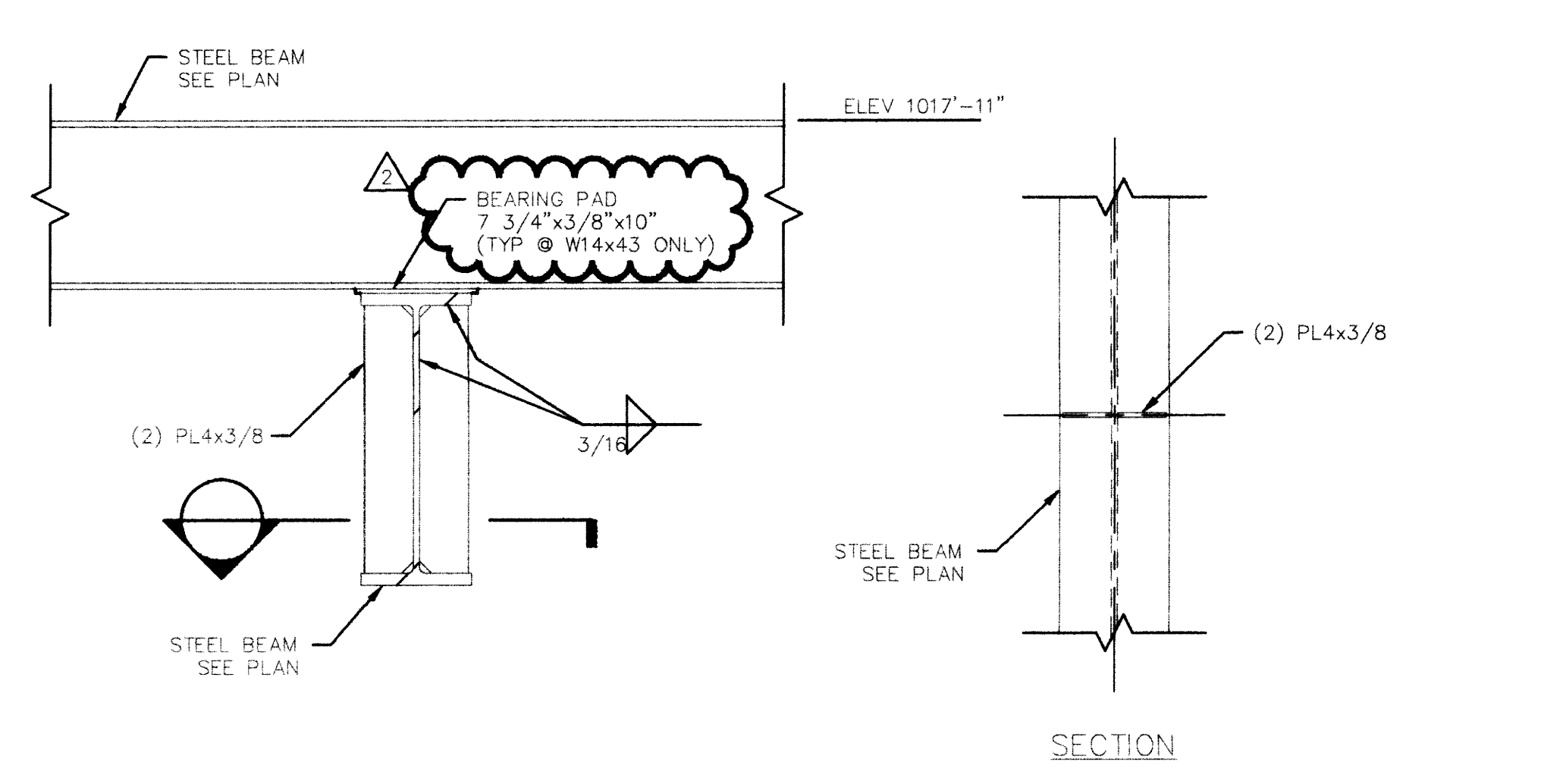
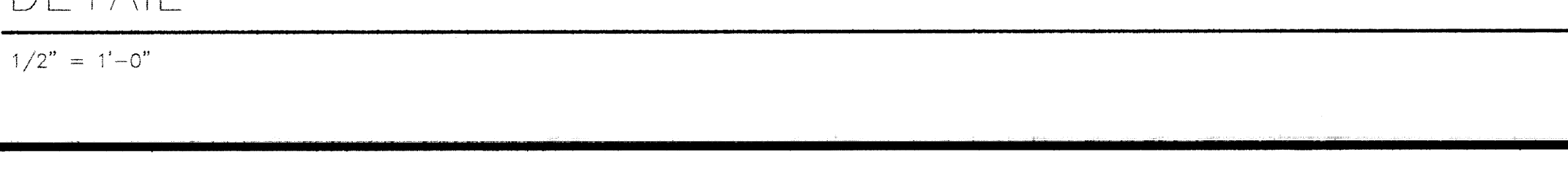
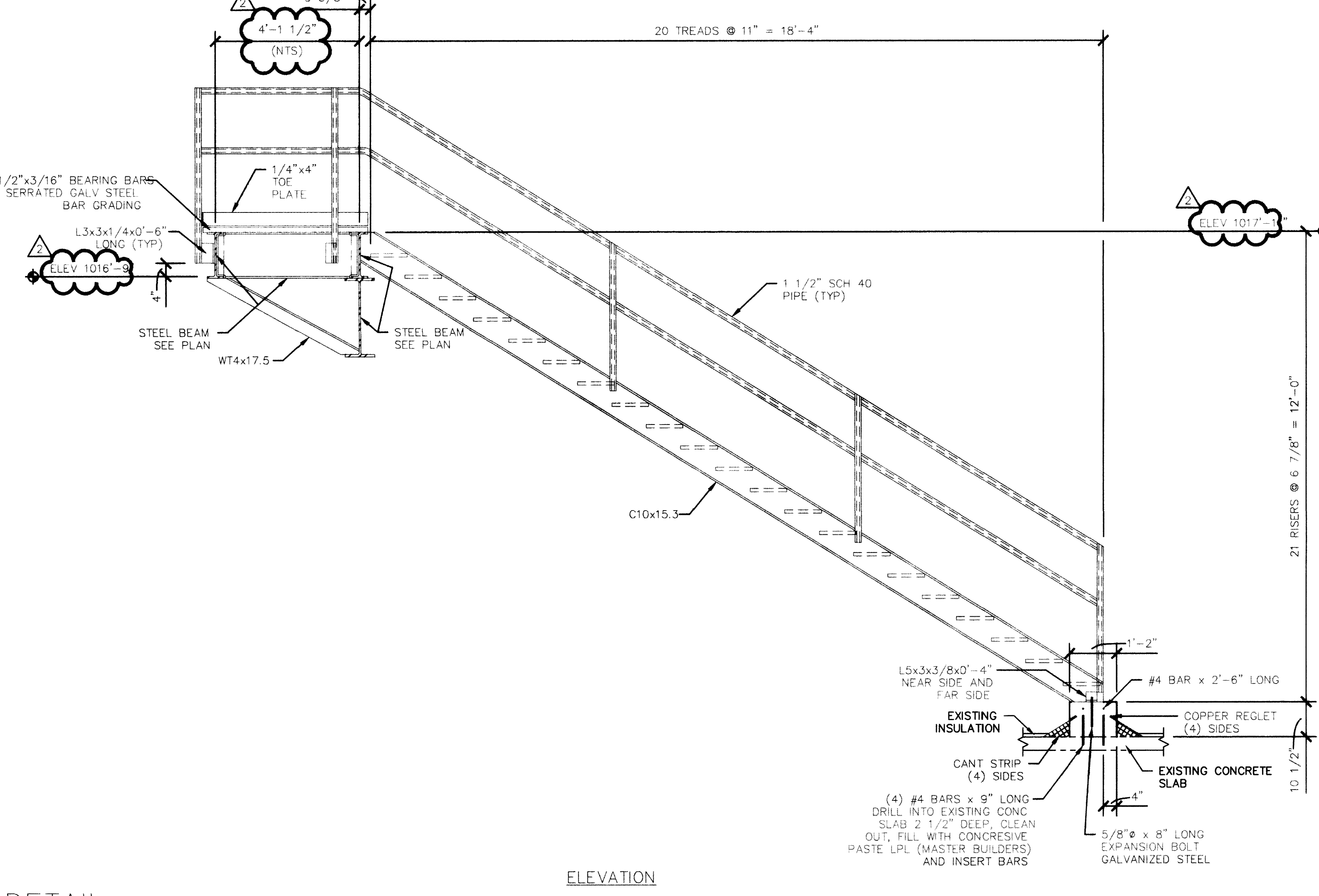
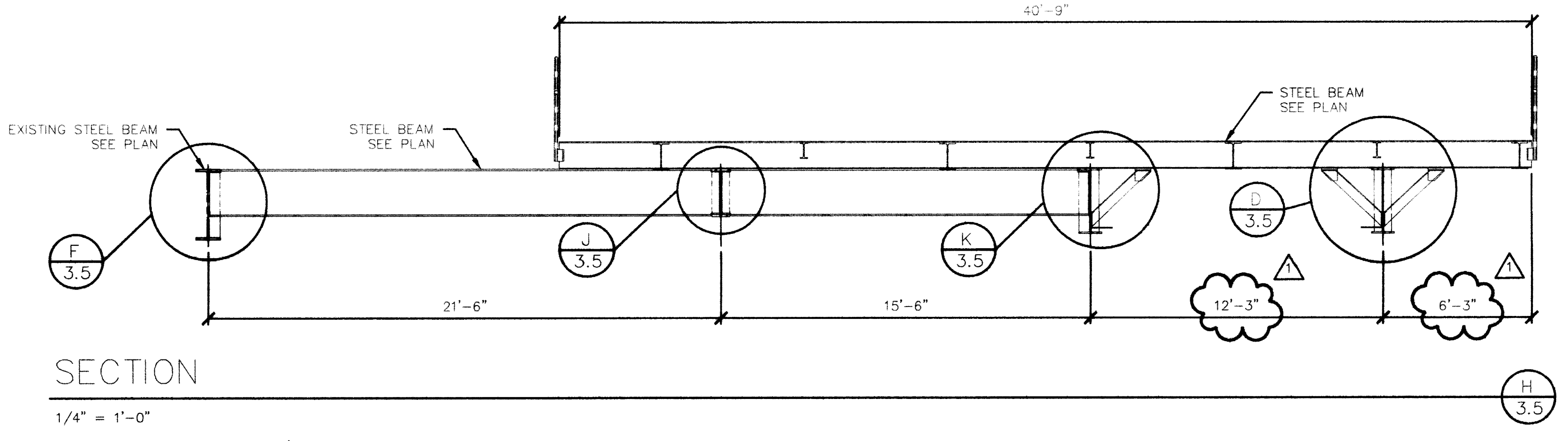
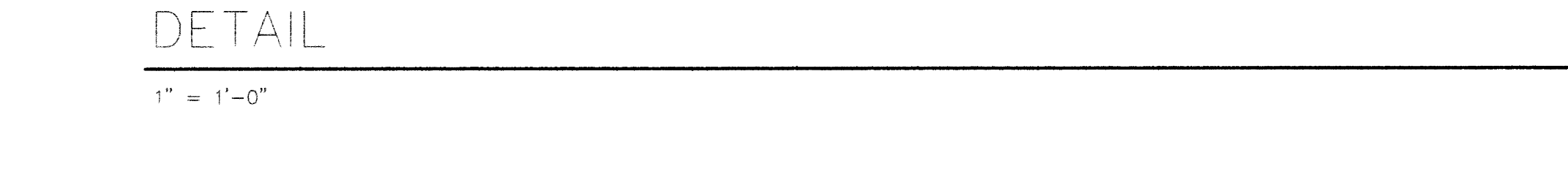
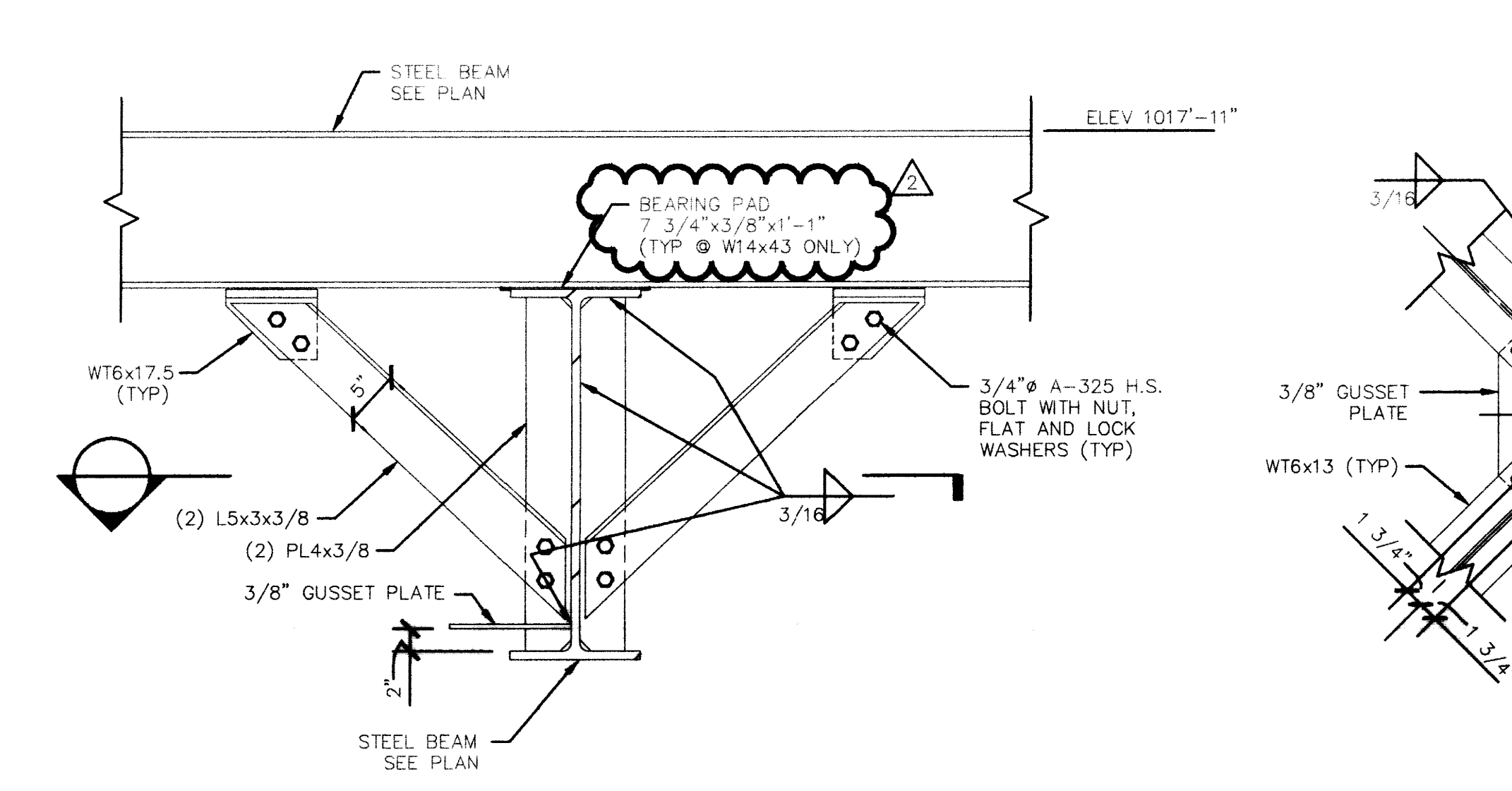
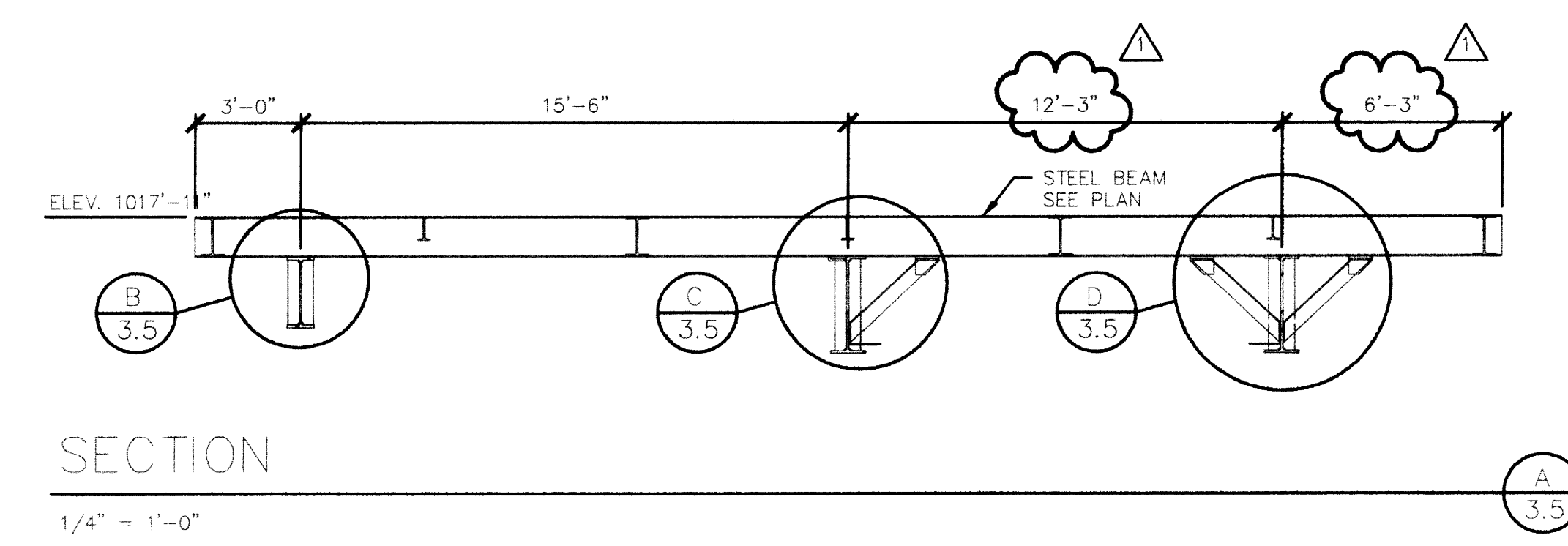
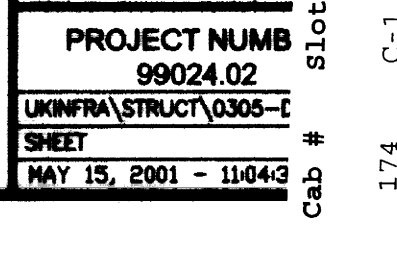
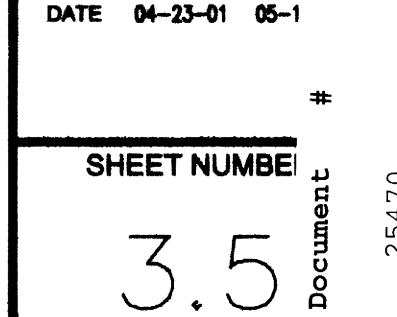
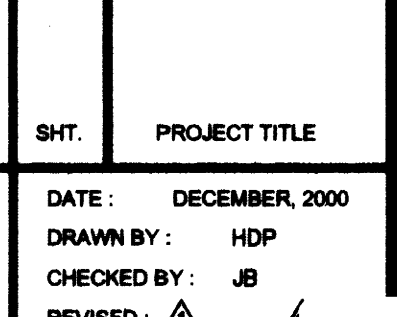
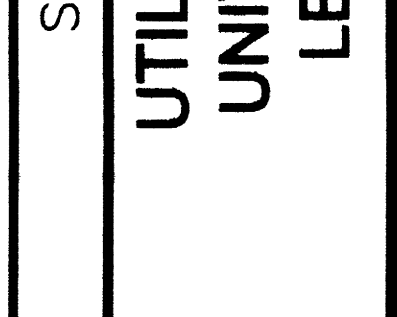
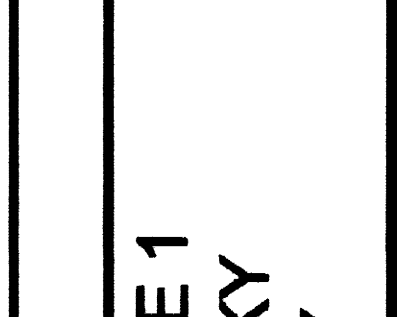
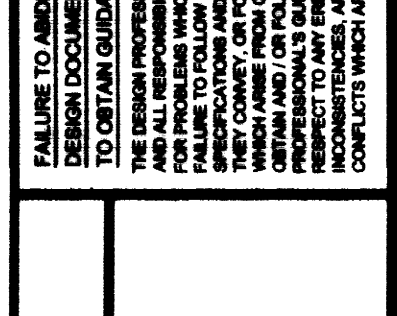
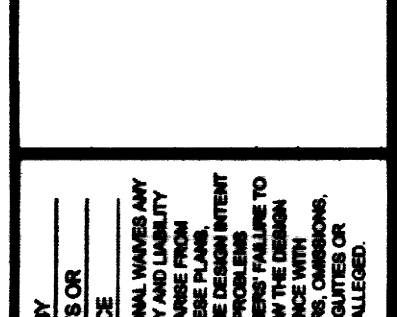
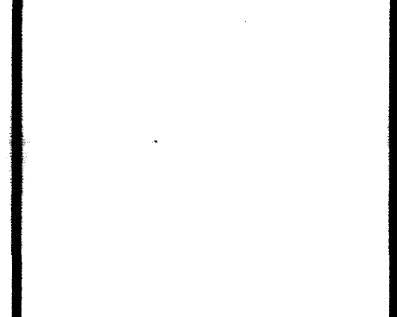
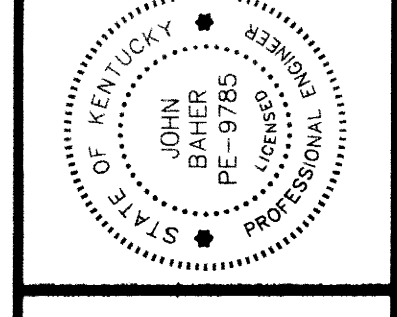
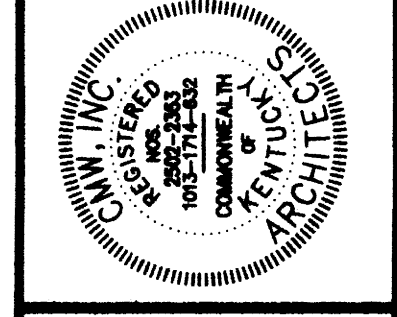
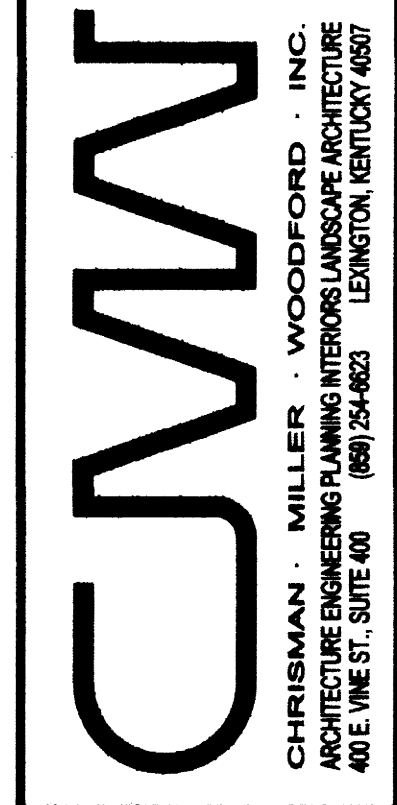
RECORD DRAWINGS DATE 11/20/2003
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CMW, INC.

SHT. PROJECT TITLE
DATE: DECEMBER, 2000
DRAWN BY: HDR
CHECKED BY: JB
REVISED BY: 04-23-01
DATE: 08-21-01
SHEET NUMBER
3.4
PROJECT NUMBER
90024.02
UNIVERSITY OF KENTUCKY
SHEET
AUG 22, 2001 - 11:02



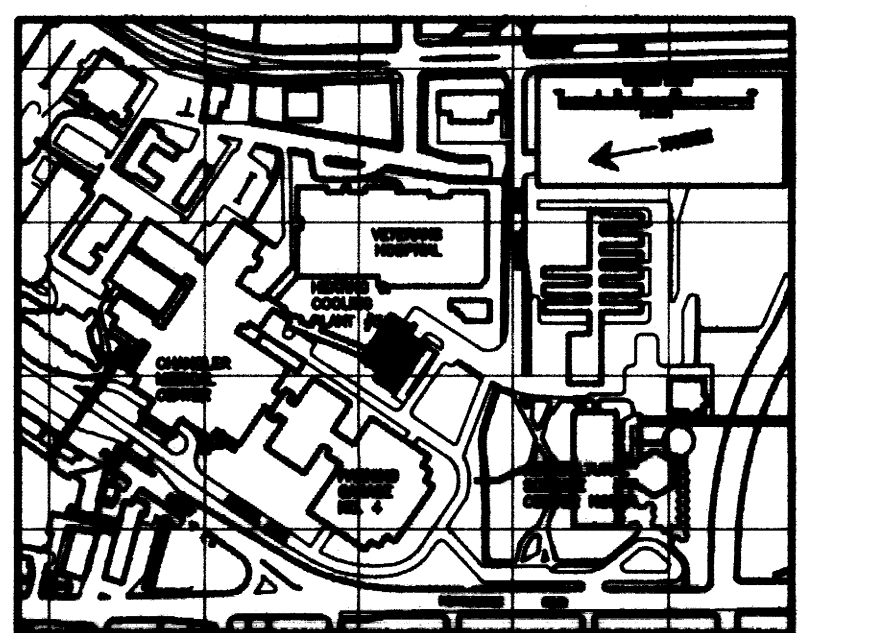
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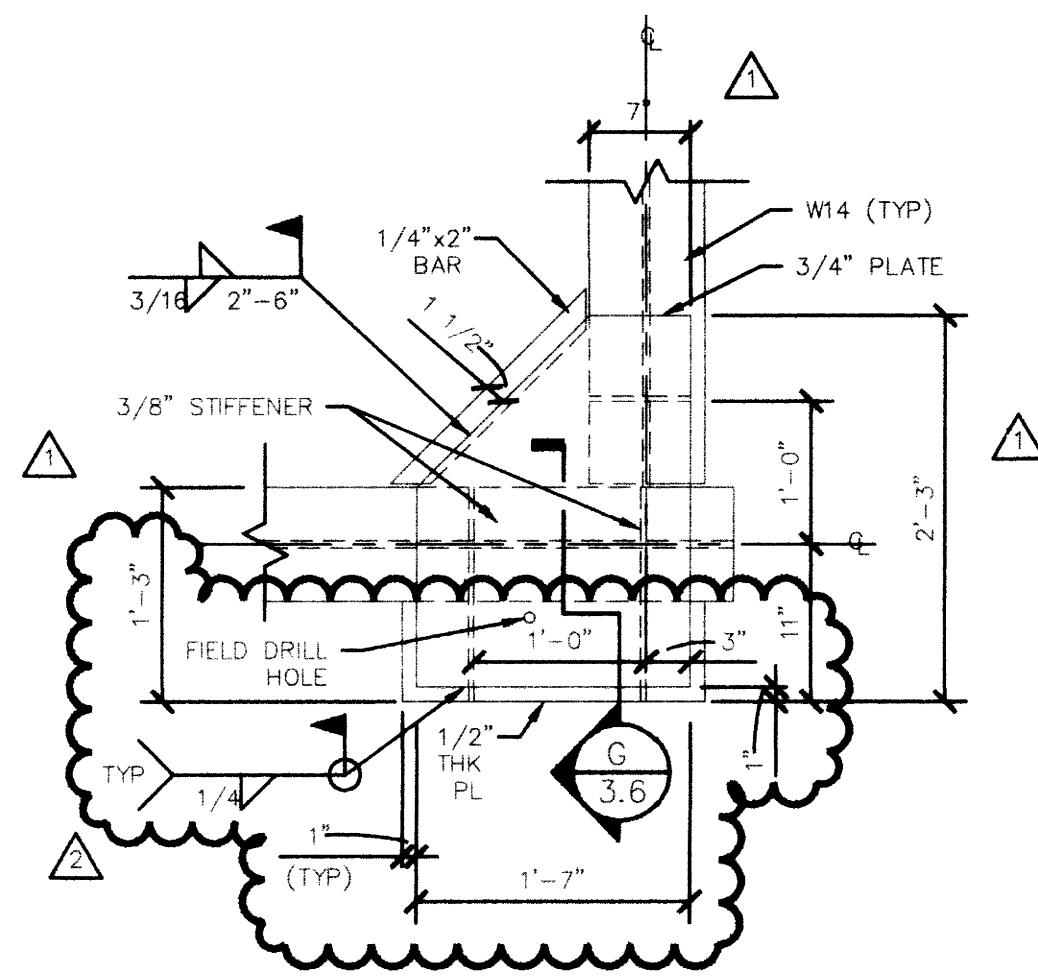
CMW, INC.



SECTIONS AND DETAILS
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

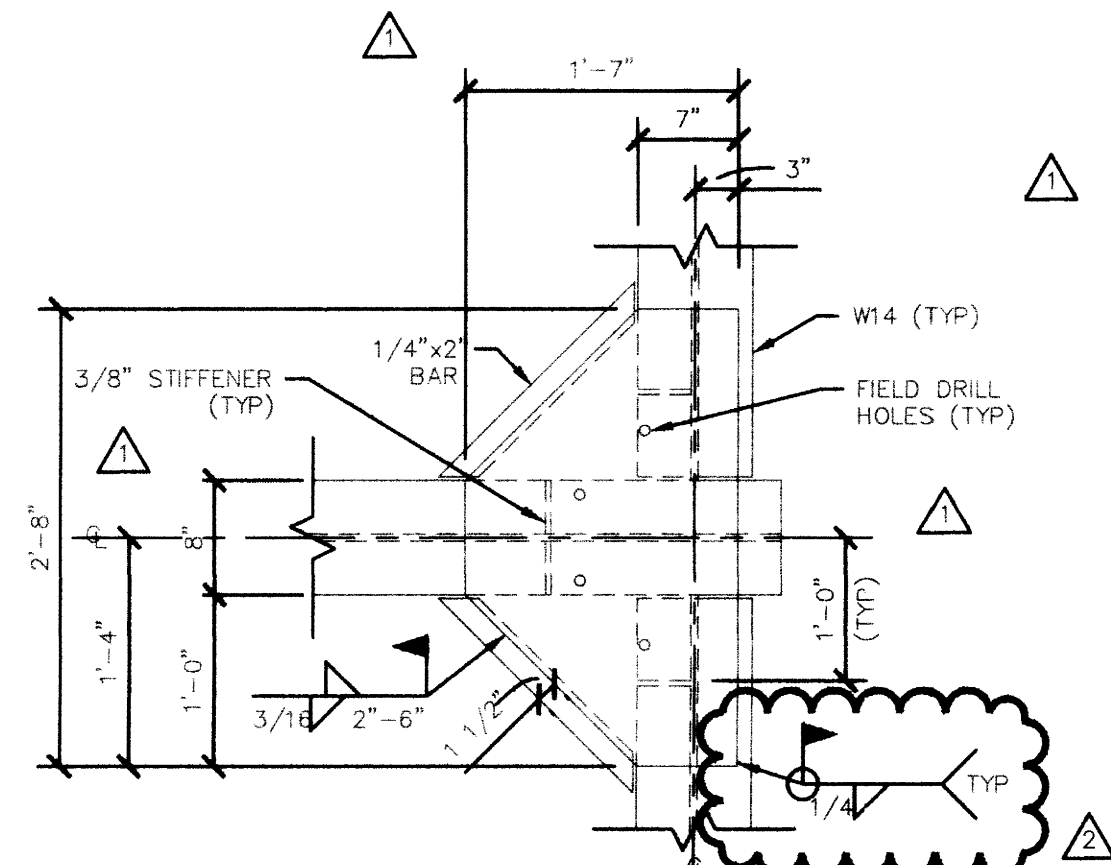
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DRAWN BY: HDP
CHECKED BY: JS
REVISED: 4
DATE 04-23-01 06-1
SHEET NUMBER: 3.5
PROJECT NUMBER: 99024 02
UNIFORM CONTRACT 1505-1
SHEET
MAY 15, 2001 - 11043
C-1 25470



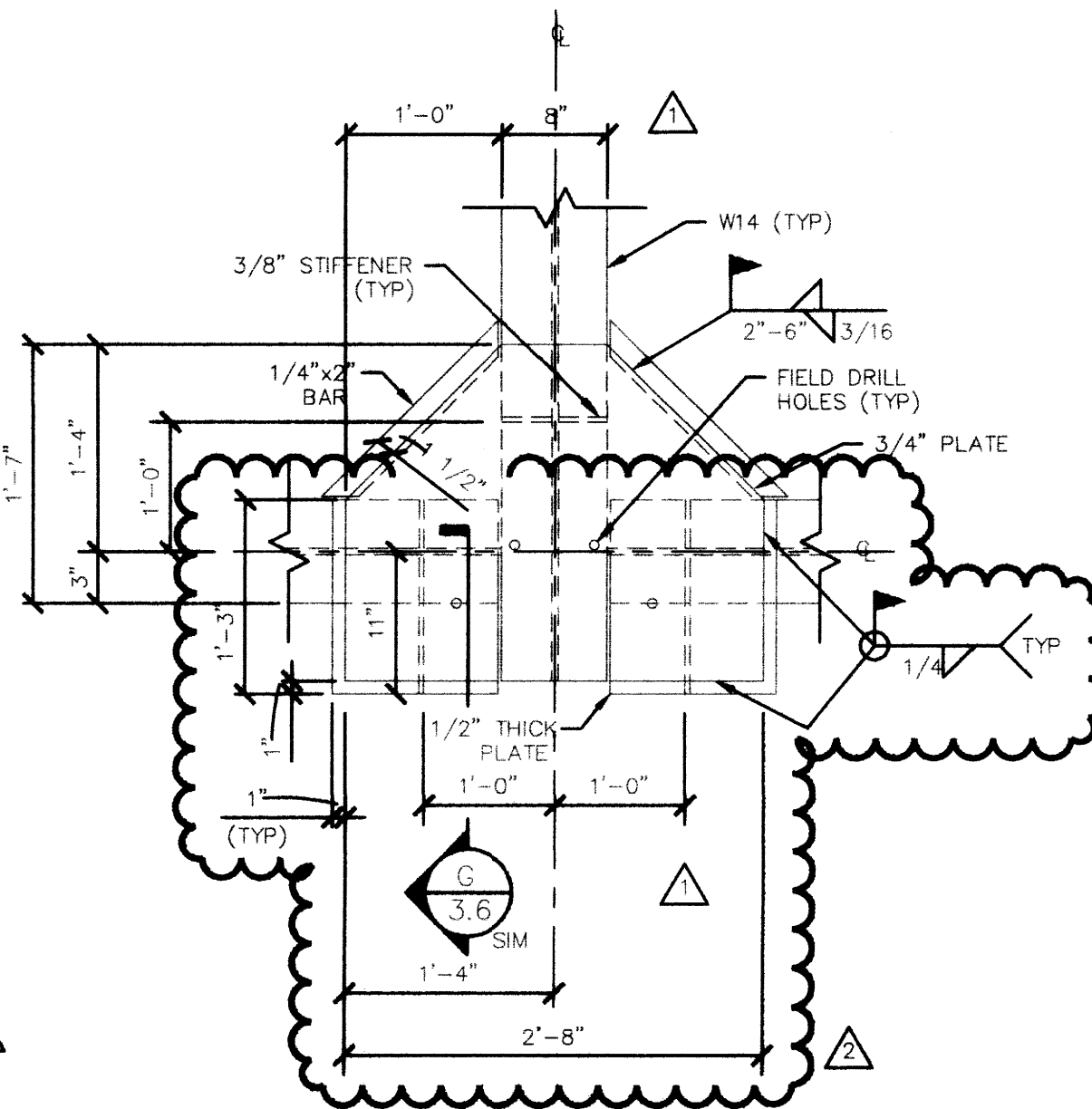


DETAIL A
NOT TO SCALE
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(THIS DETAIL WAS ELIMINATED)

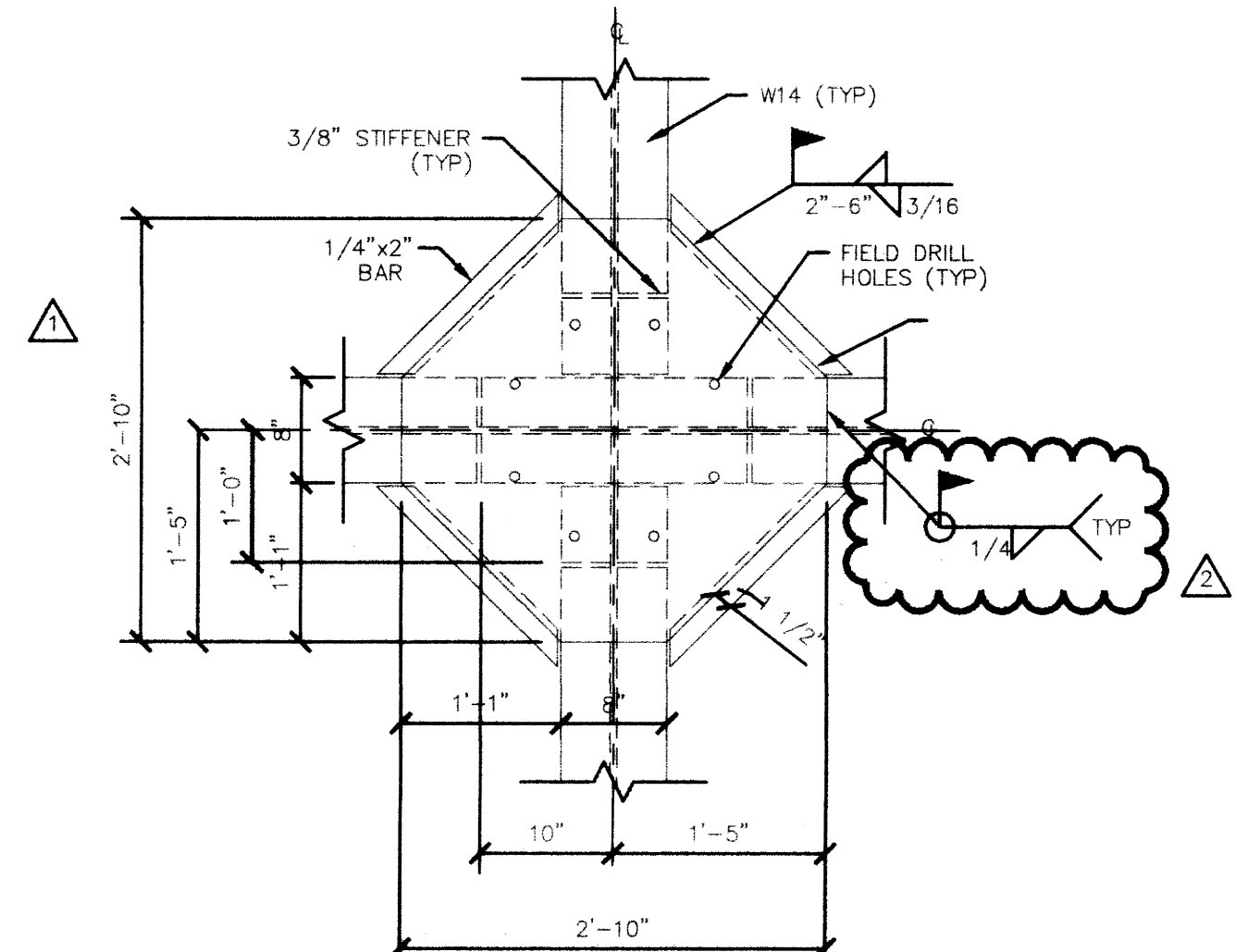


DETAIL C
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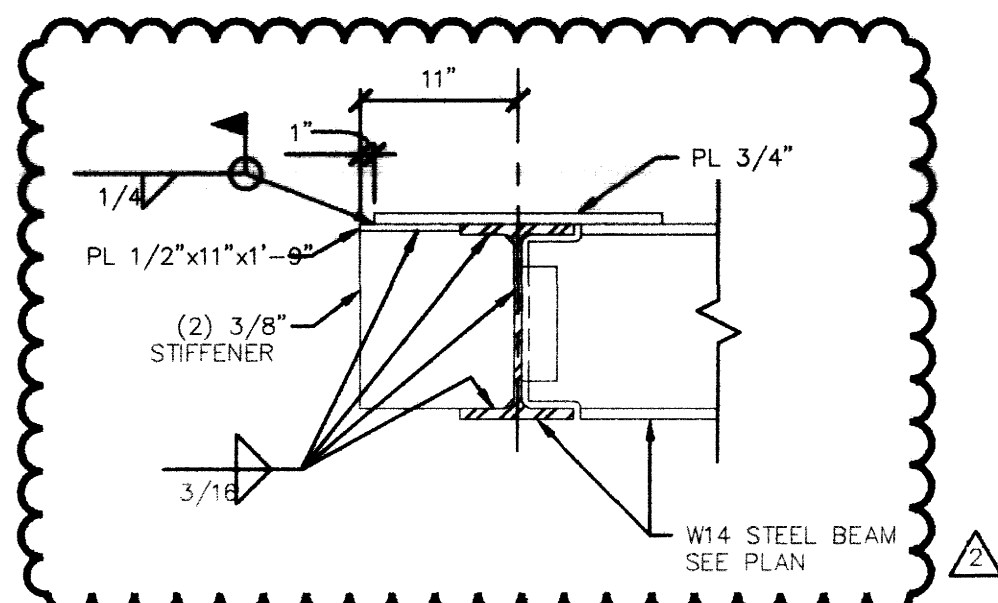


DETAIL D
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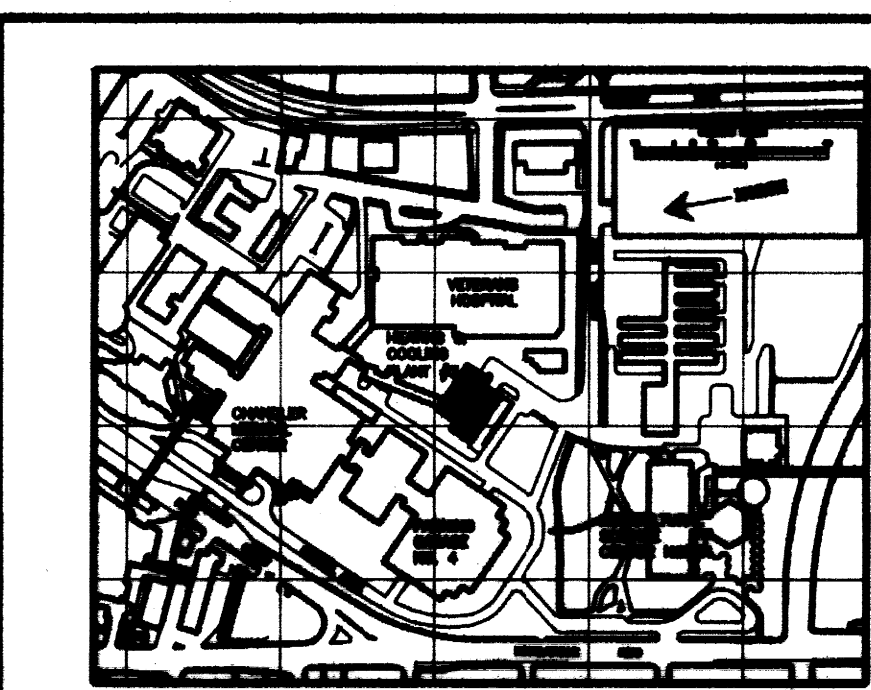
DETAIL F
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SECTION G
1" = 1'-0"
3.6

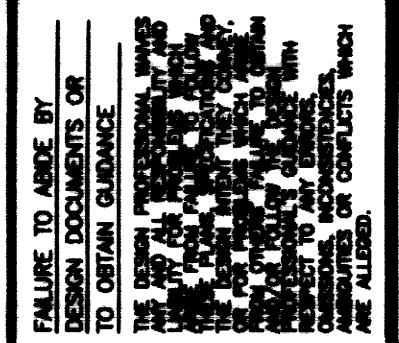
FAILURE TO ADHERE TO THESE CONDITIONS MAY BE CAUSE FOR THE CONTRACTOR TO OBTAIN ENFORCEMENT OF THE CONTRACT THROUGH THE COURTS.

SECTIONS AND DETAILS
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY



RECORD DRAWINGS DATE 11/20/2003
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CJM, INC.

SHT.	PROJECT 1	25471
DATE:	DECEMBER	
DRAWN BY:	HD	
CHECKED BY:	JS	
REVISION:	1	
DATE:	05-14-01	
SHEET NUMBER	174	C-1
PROJECT NUMBER	3.6	
UNIVERSITY OF KENTUCKY		
LEXINGTON, KENTUCKY		
AUG 22, 2001 - 104616		



FOUNDATION LEGEND

- EX = EXISTING CONSTRUCTION
- (968.33') = TOP OF FOOTING ELEVATION
- (968.33') = TOP OF FOOTING / SLAB SPOT ELEVATION
- SLOPE SLAB EVENLY BETWEEN POINTS UNLESS NOTED OTHERWISE

RECORD DRAWINGS DATE 11/20/2003

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CMW, INC.

TUNNEL NOTES

- DESIGN LIVE LOADS**
- TUNNEL LIVE LOAD
- ROADWAY LOADING AASHTO HS20
 - ROOF SNOW LOAD 20 PSF MIN
 - GROUND SNOW LOAD Pg = 15 PSF
 - SNOW EXPOSURE FACTOR Ce = 0.7
 - IMPORTANCE FACTOR Is = 1.0
 - FLAT-ROOF SNOW LOAD (Pf = CelsPg) Pf = 10.5 PSF
- WIND LOAD**
- PRIMARY FRAME AND COMPONENTS GREATER THAN 700 SQ. FT. 70 MPH
 - BASIC WIND SPEED EXPOSURE B
 - IMPORTANCE FACTOR Iw = 1.0
 - WIND DESIGN PRESSURE (P) PRESSURE
 - HEIGHT ABOVE GROUND 0-15'
- EARTHQUAKE DESIGN DATA**
- BASIC STRUCTURAL SYSTEM REINFORCED CONCRETE SHEAR WALLS
 - SEISMIC RESISTING SYSTEM LOADBEARING WALL SYSTEM
 - PEAK VELOCITY-RELATED ACCELERATION Av = 0.07
 - PEAK ACCELERATION Ag = 0.05
 - SEISMIC HAZARD EXPOSURE GROUP CATEGORY B
 - SEISMIC PERFORMANCE CATEGORY S = 1.0
 - SOIL-PROFILE SITE COEFFICIENT Sp = 4 1/2
 - RESPONSE MODIFICATION FACTOR Cd = 4
 - DEFLECTION AMPLIFICATION FACTOR EQUIVALENT LATERAL FORCE PROCEDURE
 - METHOD OF ANALYSIS
- DESIGN STRESSES**
- CONCRETE (STRENGTH DESIGN) MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS: f_c = 4,000 PSI
 - TUNNEL FOOTINGS, WALLS, AND ELEVATED SLABS: f_y = 60,000 PSI
 - REINFORCING BARS (ASTM A615 GRADE 60)

- GENERAL**
- ALL DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES SHOWN ON THE DRAWINGS HAVE BEEN OBTAINED FROM AVAILABLE SOURCES AND ARE NOT GUARANTEED TO BE TRUE AND EXACT. THE CONTRACTOR SHALL VERIFY THESE DIMENSIONS AND ELEVATIONS BY ACTUAL FIELD MEASUREMENTS PRIOR TO FABRICATION OF ANY MATERIALS AND START OF WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
 - ANY DISCREPANCIES BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER.
 - DO NOT SCALE DRAWINGS.
 - THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION AND IS THEREFORE DEPENDANT UPON DIAPHRAGM ACTION OF THE ROOF SLAB AND ATTACHMENT TO THE SHEAR WALLS FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY BRACING REQUIRED TO PROPERLY CONSTRUCT THE BUILDING UNTIL THESE ELEMENTS ARE COMPLETE AND CAPABLE OF PROVIDING THIS SUPPORT.
 - SHOP DRAWINGS MUST BE CHECKED AND STAMPED BY THE CONTRACTOR PRIOR TO SUBMISSION. DO NOT BACKFILL AGAINST TUNNEL STRUCTURE UNTIL ROOF SLAB IS IN PLACE AND ALL MEMBERS HAVE REACHED THE SPECIFIED CONCRETE COMPRESSIVE STRENGTH.
 - BACKFILL TUNNEL BY ALTERNATELY PLACING BACKFILL ON EACH SIDE SO THAT THE HEIGHT OF BACKFILL DOES NOT DIFFER BY MORE THAN 2'-6" FROM THE OTHER SIDE.

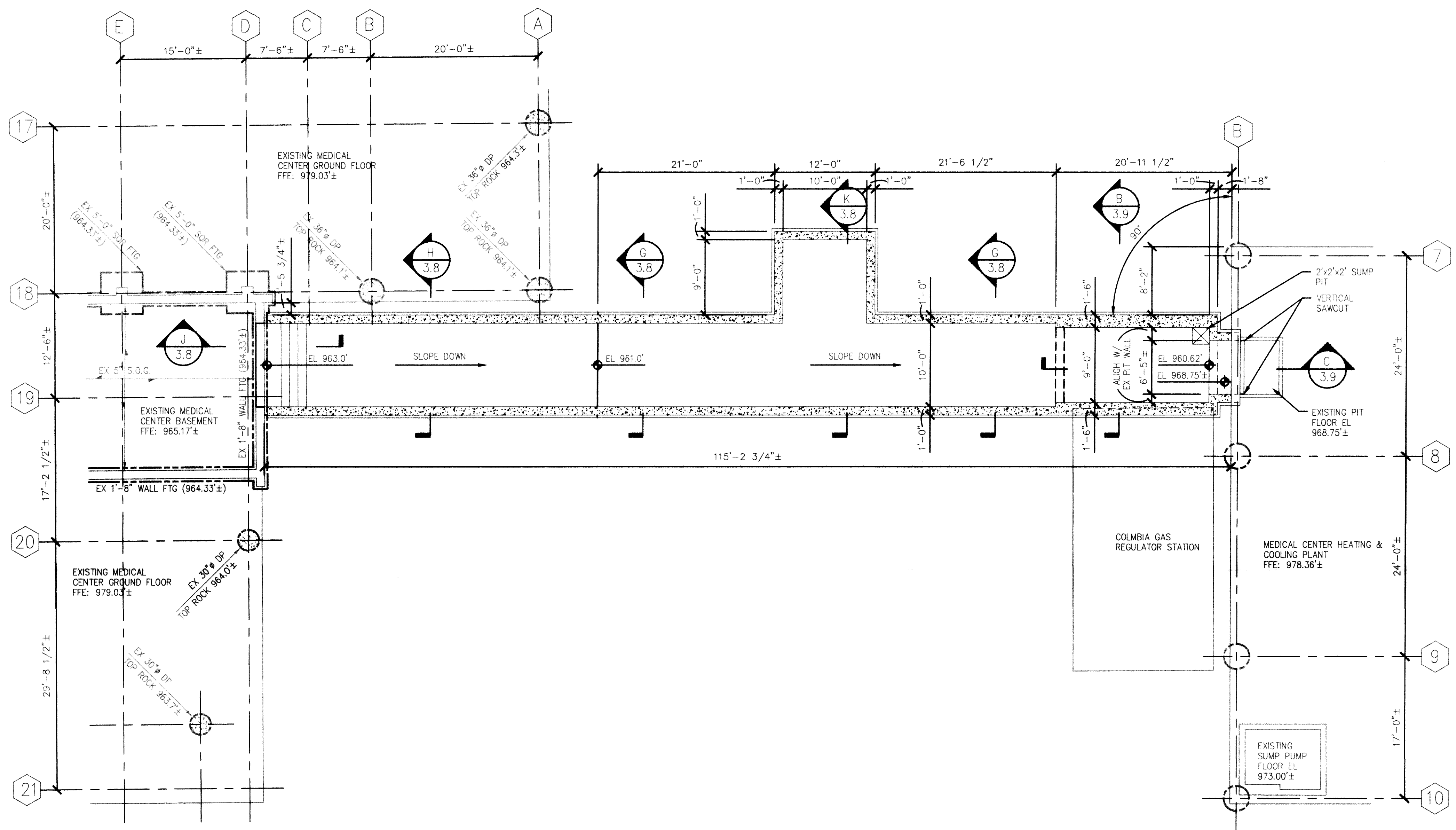
- FOUNDATION CONSTRUCTION**
- ELEVATIONS GIVEN ARE TO THE TOP OF FOOTINGS.
 - ALL FOOTINGS MUST BE SUPPORTED ON UNDISTURBED SOIL CAPABLE OF SUPPORTING DESIGN LOADS WITHOUT APPRECIABLE SETTLEMENT.
 - EXISTING FOUNDATIONS:
 - A. EXISTING FOUNDATIONS SHOWN ON DRAWINGS ARE APPROXIMATE. EXACT CONDITION MUST BE VERIFIED AT TIME OF CONSTRUCTION.
 - LOCATE EXISTING UNDERGROUND UTILITIES IN AREAS OF CONSTRUCTION. COORDINATE WITH UTILITY COMPANIES FOR ANY SHUT-OFF REQUIREMENTS OF STILL ACTIVE LINES.
 - WHEN EXCAVATIONS APPROACH THE GROUND WATER LEVEL, THE WATER LEVEL SHALL BE LOWERED BY AN ACCEPTABLE DEWATERING SYSTEM SO THAT THE WATER LEVEL IS MAINTAINED CONTINUOUSLY A MINIMUM OF 2'-0" BELOW THE EXCAVATION.
 - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO EMPLOY A QUALIFIED FIRM TO ENGINEER AND CONSTRUCT A JET GROUT / SOIL NAIL SOIL STABILIZATION AND UNDERPINNING SYSTEM FOR ALL EXISTING WALLS AND FOUNDATIONS UNCOVERED DURING THE EXCAVATION AND CONSTRUCTION OF THE UTILITY TUNNEL. ALTERNATE MEANS OF STABILIZING / UNDERPINNING MAY BE PROPOSED TO, BUT ARE SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD.

- CONCRETE CONSTRUCTION**
- ALL CONCRETE CONSTRUCTION TO BE IN ACCORDANCE WITH THE LATEST BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. ACI 318 AND ACI DETAILING MANUAL, EXCEPT THAT CONSTRUCTION AND REMOVAL OF FORMS AND SHORING SHALL BE INSPECTED BY THE CONTRACTOR'S ENGINEER.
 - FURNISH BAR SUPPORTS WHERE NECESSARY DURING CONSTRUCTION.
 - PROVIDE PLASTIC, PLASTIC-COATED (NOT PLASTIC-TIPPED) OR STAINLESS STEEL CHAIRS IN ALL CONCRETE EXPOSED TO VIEW IN COMPLETED STRUCTURE.
 - PROVIDE PIPE SLEEVES AND INSERTS IN CONCRETE WORK WHERE REQUIRED. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS.
 - CONSTRUCTION JOINTS SHALL BE POSITIONED SO AS NOT TO CHANGE THE STRUCTURAL DESIGN REQUIREMENTS. WALLS AND FRAMED SLABS SHALL HAVE CONSTRUCTION JOINTS SO THAT THE MINIMUM LENGTH OF POUR IS 40'-0".
 - WELDING OF REINFORCING BARS (INCLUDING TACK WELDING) IS NOT PERMITTED.
 - PROVIDE HORIZONTAL KEYWAYS IN CONSTRUCTION JOINTS IN FRAMED SLABS, WALLS, AND FOOTINGS; MINIMUM 1 1/2" DEEP WITH HEIGHT EQUAL TO ONE-THIRD OF MEMBER DEPTH.
 - ALL EXPOSED CORNERS OF CONCRETE BEAMS AND WALLS ARE TO BE CHAMFERED 45 DEGREES. MINIMUM CHAMFER TO BE 1/2".
 - BEND ALL HORIZONTAL WALL AND FOOTING BARS 1'-0" AROUND CORNERS OR PROVIDE CORNER BARS WITH 2'-0" LAP.
 - PROVIDE FOUNDATION DOWELS FOR ALL WALLS, PIERS, AND COLUMNS SAME SIZE AND SPACING AS VERTICAL STEEL.
 - SPICES:
 - A. LAP ALL COMPRESSION SPICES 30 BAR DIAMETERS OF THE LARGER BAR.
 - B. LAP ALL TENSION SPICES IN ACCORDANCE WITH THE FOLLOWING TABLE. MODIFY LENGTHS AS NOTED:

BAR SIZE	CONCRETE COMPRESSIVE STRENGTH	
	4,000 PSI	1. INCREASE SPICE LENGTH BY THE FOLLOWING:
#3	19"	2. NOTE: INCREASED LENGTHS ARE ACCUMULATIVE
#4	25"	1. HORIZONTAL TOP BARS WITH GREATER THAN 12" OF CONCRETE BELOW
#5	31"	2. BAR SPACING LESS THAN 2 BAR DIAMETERS
#6	37"	+30%
#7	54"	+50%
#8	62"	

- CONCRETE PROTECTION FOR REINFORCEMENT:**
- A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH COVER 3"
 - B. CONCRETE EXPOSED TO EARTH OR WEATHER 2"
 - NO. 6 THROUGH NO. 18 BARS
 - NO. 5 BAR, W31 OR D31 WIRE AND SMALLER 1 1/2"
 - C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND 1 1/2"
 - NO. 3 THROUGH NO. 18 BARS

- ROOF, FLOOR, OR WALL OPENINGS**
- THE CONTRACTOR SHALL VERIFY AND COORDINATE THE NUMBER, SIZE, AND LOCATION OF ALL SLEEVES AND OPENINGS REQUIRED FOR MECHANICAL OR ELECTRICAL ITEMS.
 - SLEEVES AND OPENINGS SHALL BE LOCATED IN A MANNER THAT WILL MAINTAIN THE STRUCTURAL INTEGRITY OF THE ROOF, FLOOR, OR WALL SYSTEM.

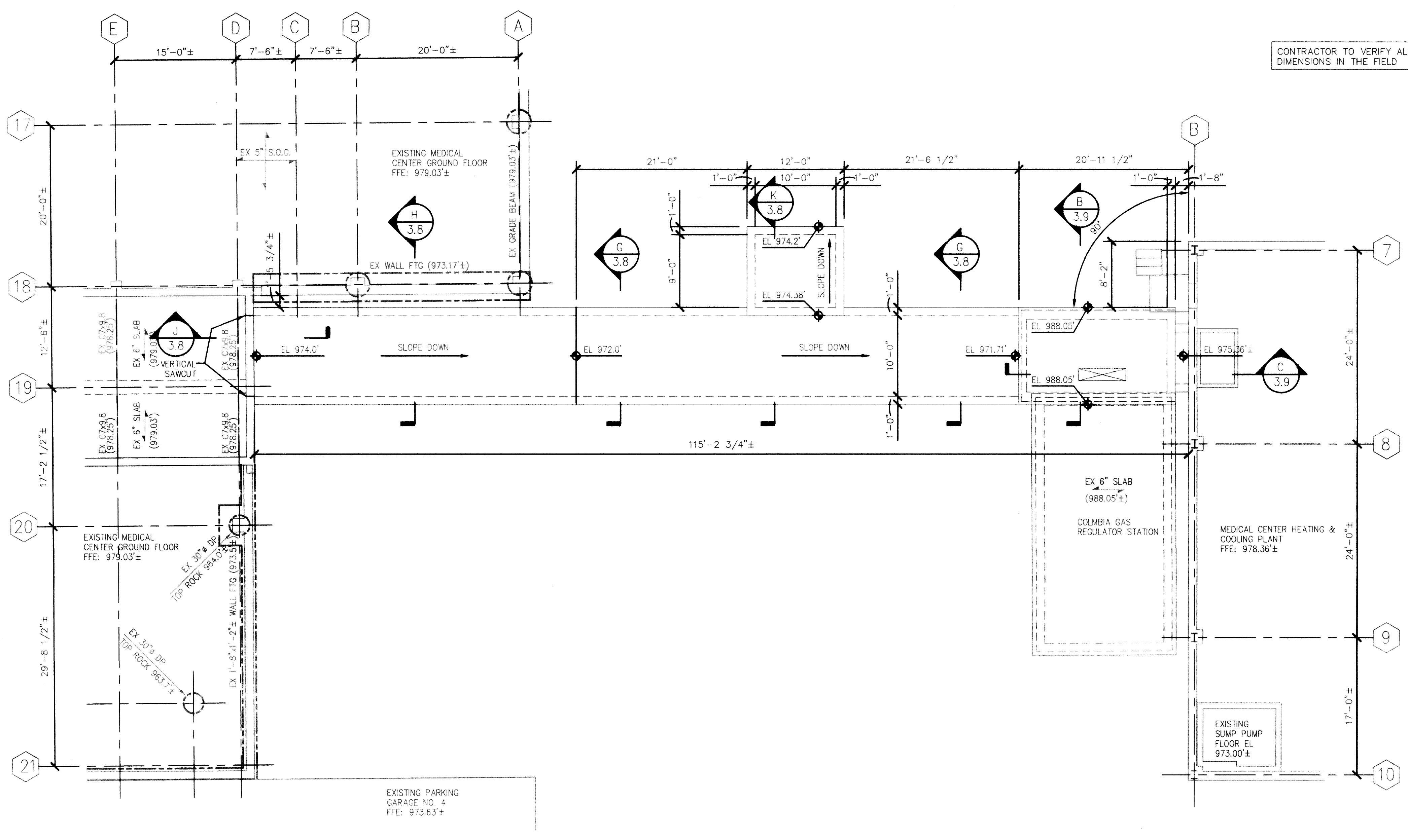


TUNNEL FOUNDATION PLAN

1/8" = 1'-0"

A 3.7

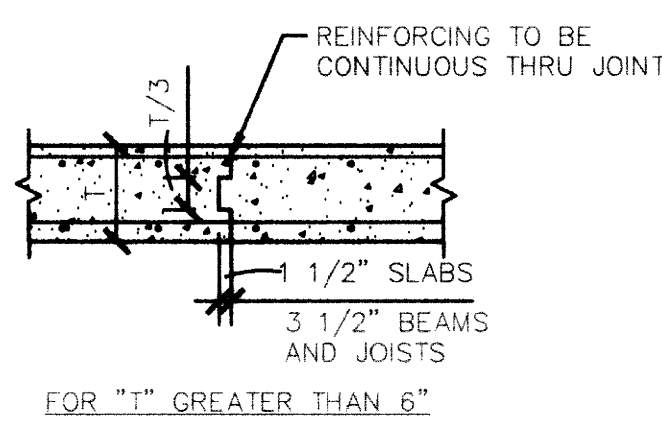
CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD



TUNNEL ROOF PLAN

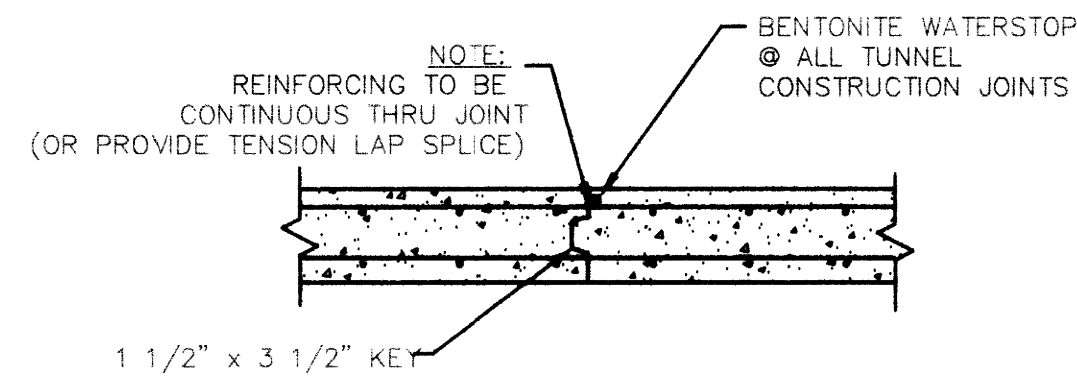
1/8" = 1'-0"

B 3.7



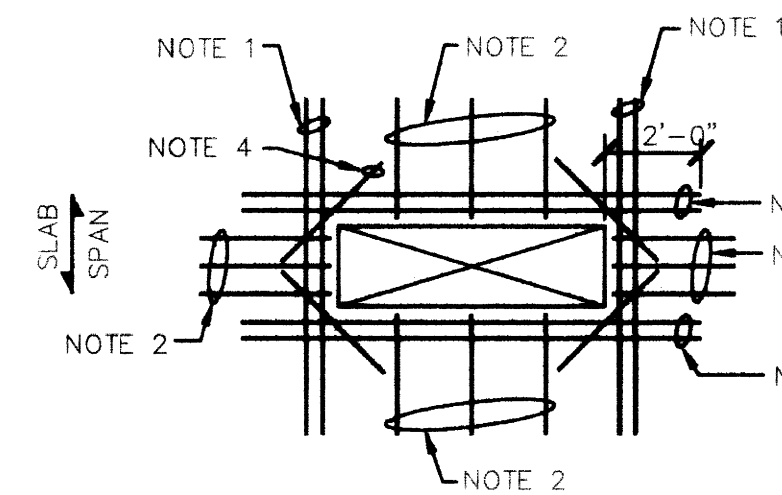
TYPICAL FRAMED FLOOR AND ROOF CONSTRUCTION JOINTS
NOT TO SCALE

(A)
3.8



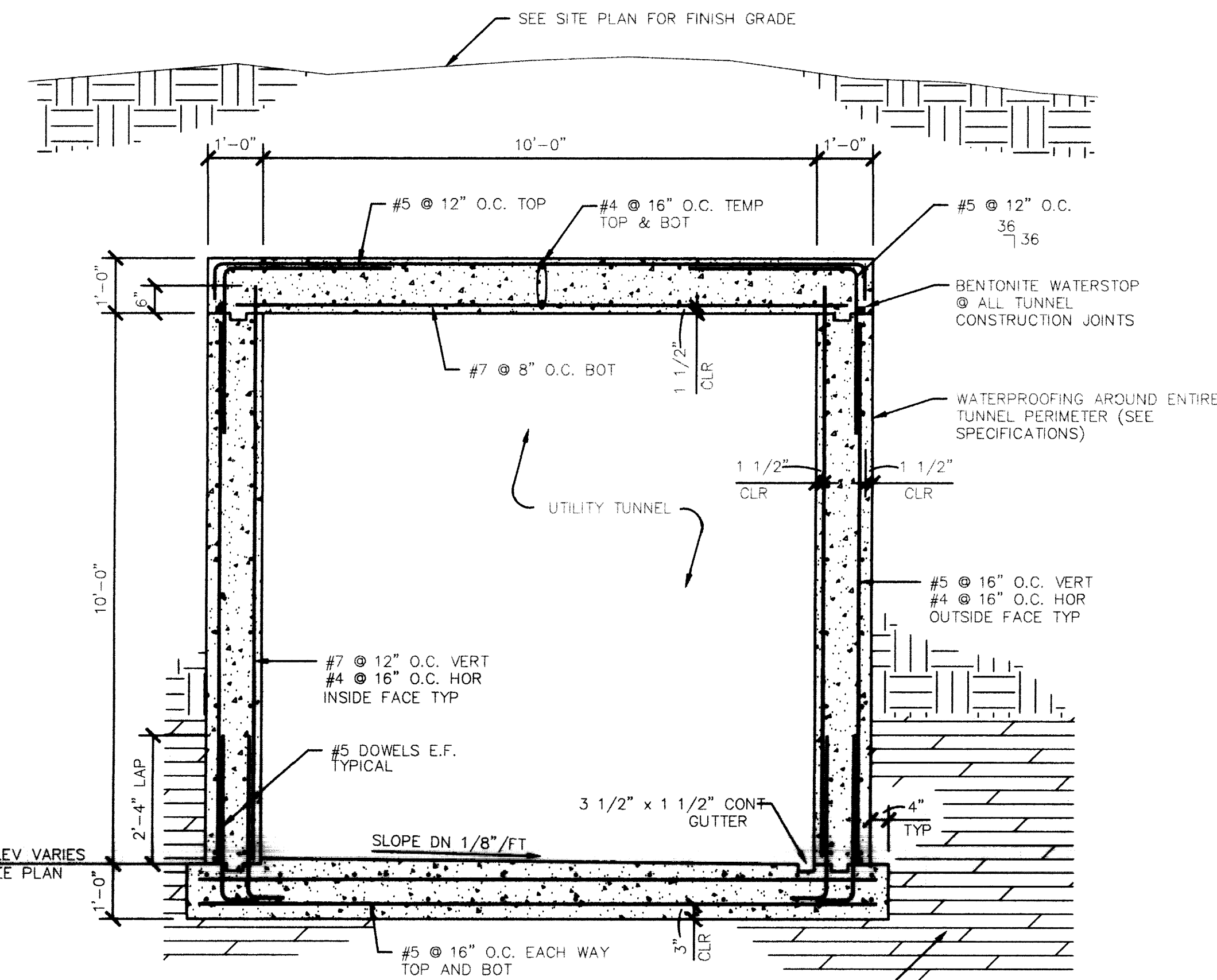
WALL CONSTRUCTION JOINT DETAIL
NOT TO SCALE

(B)
3.8



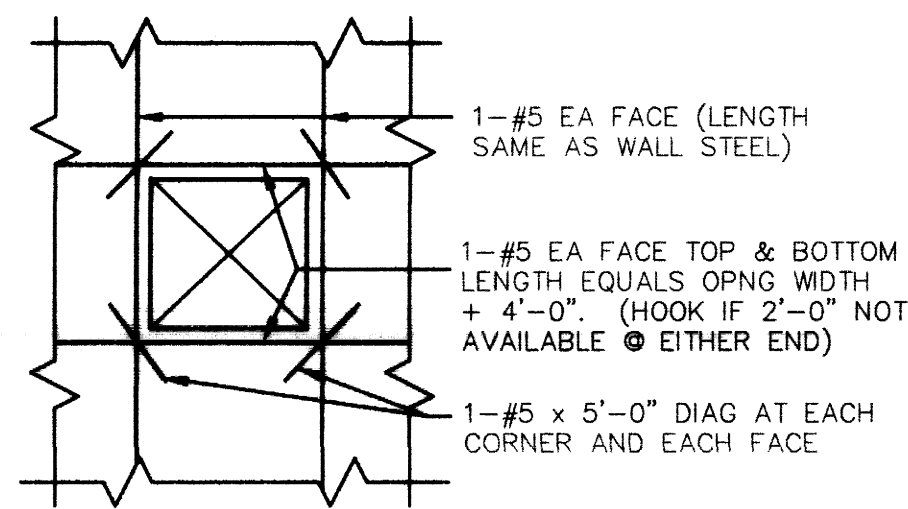
REINFORCING AT ROOF OPENINGS
NOT TO SCALE (SLAB CONSTRUCTION)

(C)
3.8



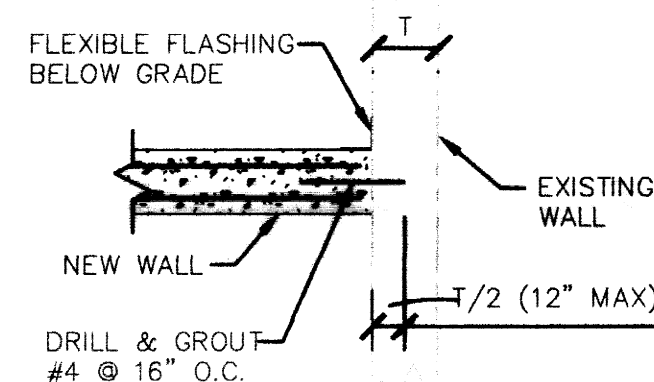
SECTION
1/2" = 1'-0"

(G)
3.8



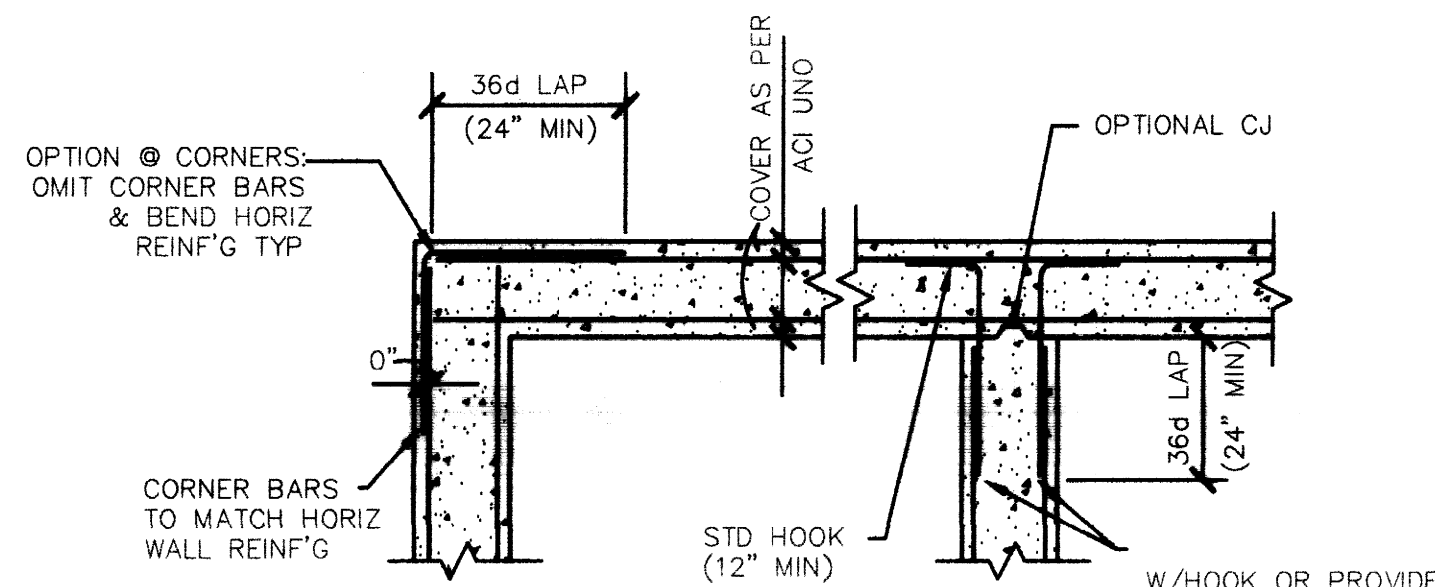
REINFORCING AT WALL OPENINGS
NOT TO SCALE

(D)
3.8



CONNECTION DETAIL NEW CONCRETE WALL TO EXISTING
NOT TO SCALE

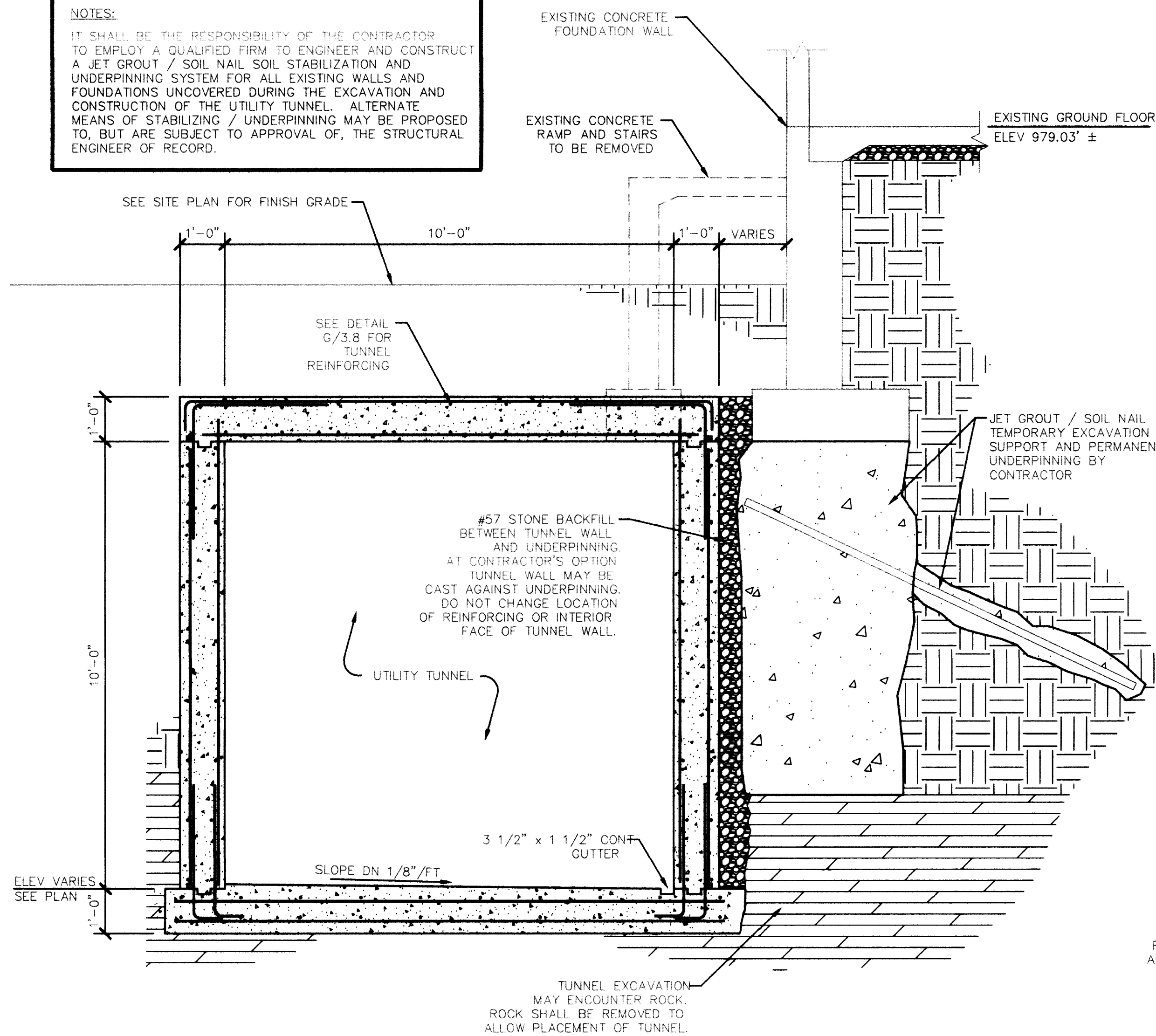
(E)
3.8



CONCRETE WALL REINFORCING DETAIL
NOT TO SCALE (2 LAYERS OF WALL REINFORCING)

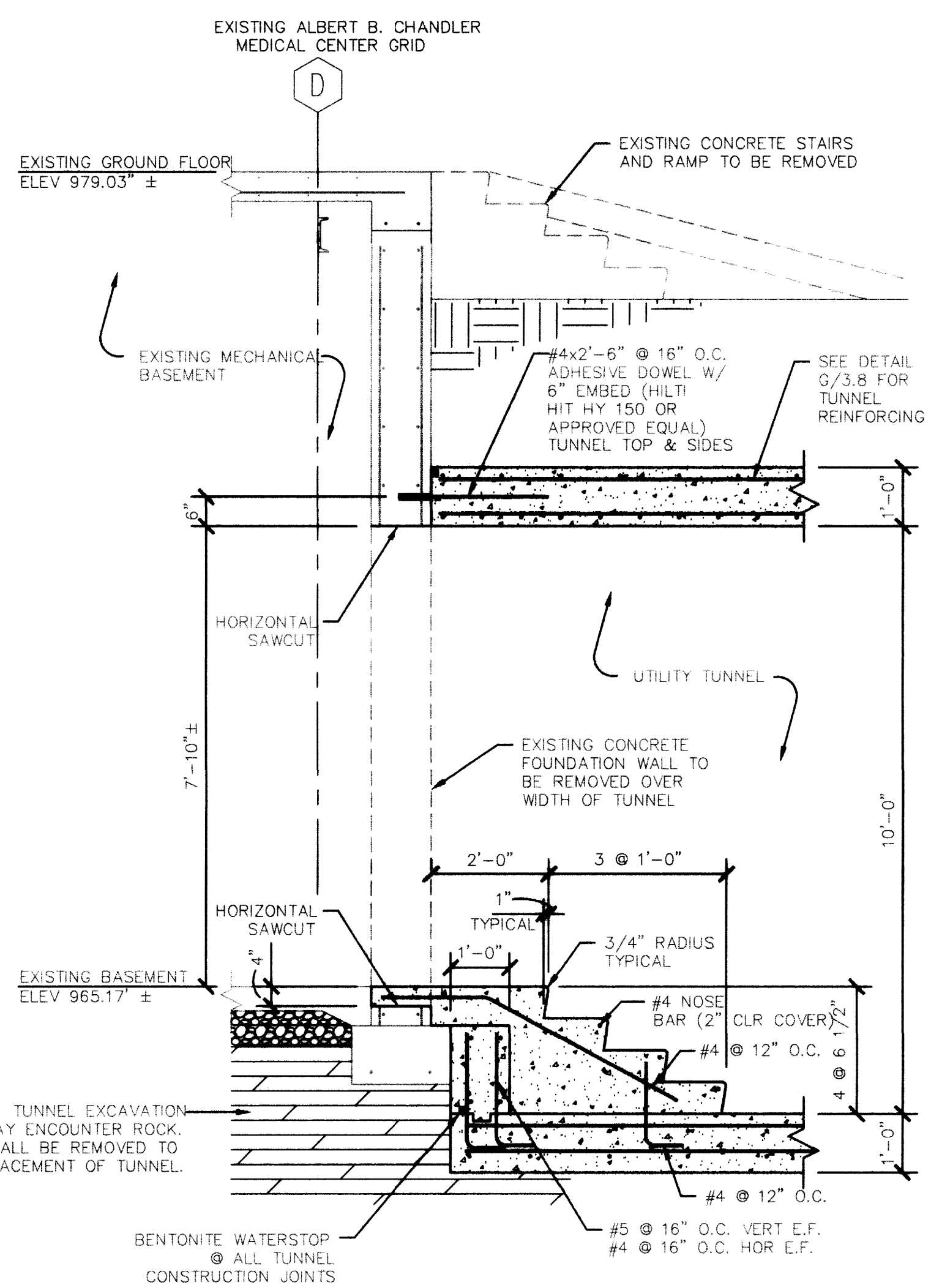
(F)
3.8

NOTES:
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO EMPLOY A QUALIFIED FIRM TO ENGINEER AND CONSTRUCT A JET GROUT / SOIL NAIL SOIL STABILIZATION AND UNDERPINNING SYSTEM FOR ALL EXISTING WALLS AND FOUNDATIONS UNCOVERED DURING THE EXCAVATION AND CONSTRUCTION OF THE UTILITY TUNNEL. ALTERNATE MEANS OF STABILIZING / UNDERPINNING MAY BE PROPOSED TO, BUT ARE SUBJECT TO APPROVAL OF, THE STRUCTURAL ENGINEER OF RECORD.



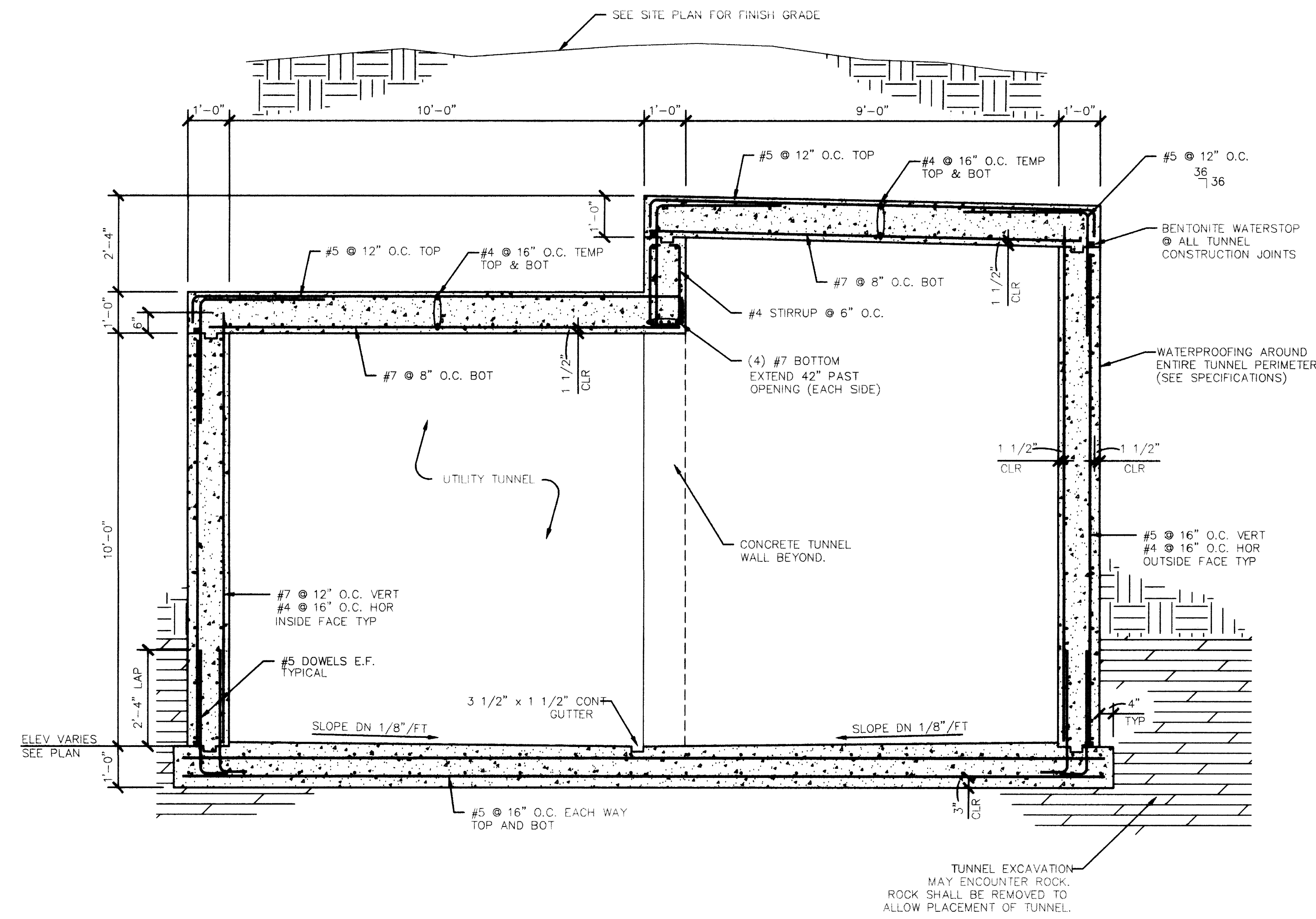
SECTION
1/2" = 1'-0"

(H)
3.8



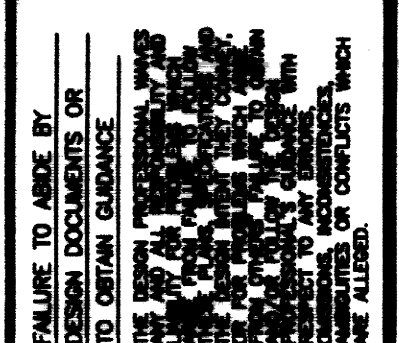
SECTION
1/2" = 1'-0"

(J)
3.8

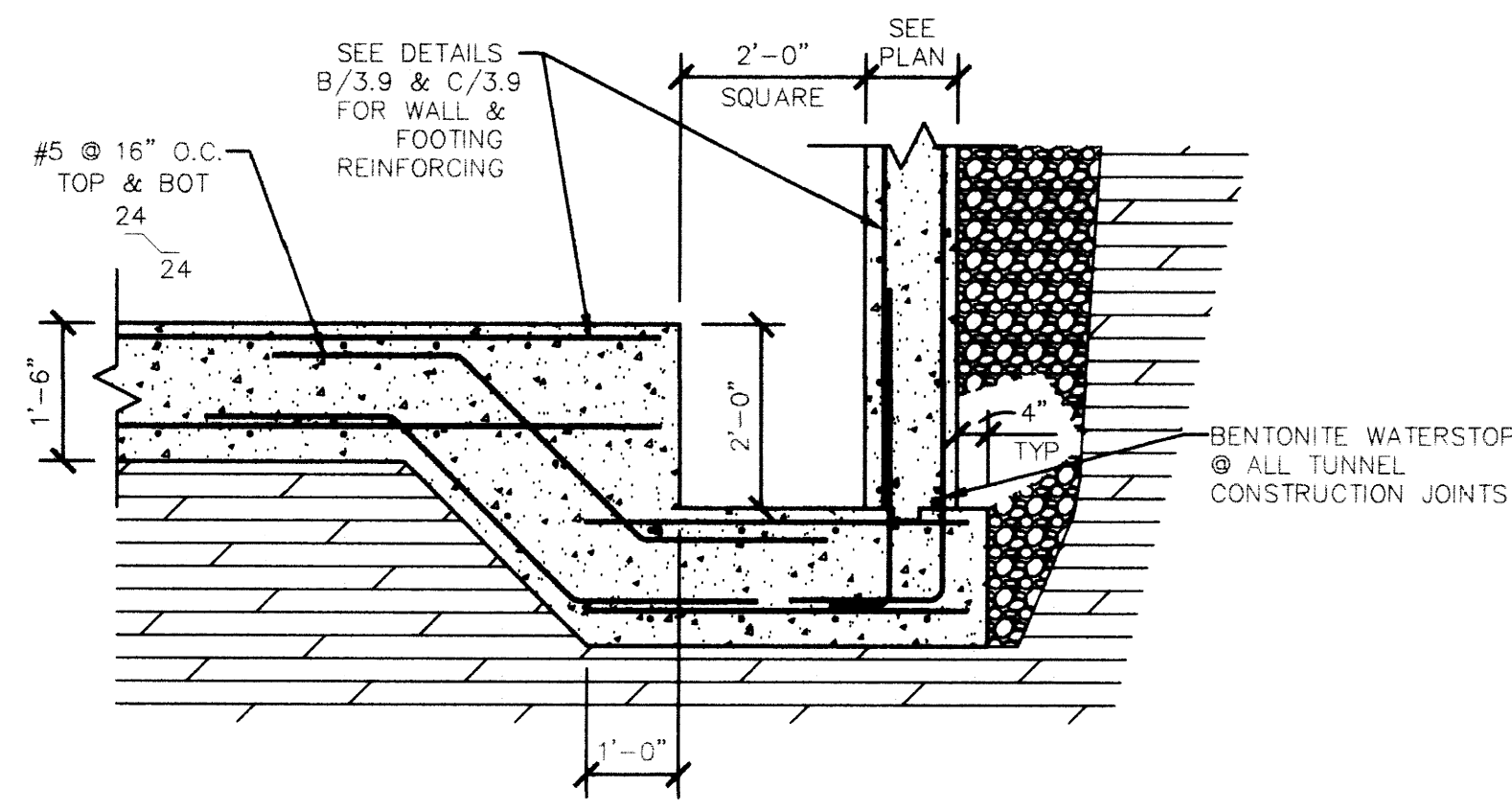


SECTION
1/2" = 1'-0"

(K)
3.8



RECORD DRAWINGS DATE 11/20/2003
These record drawings have been prepared, in part, on the basis of information compiled and furnished by others. The Engineer will not be responsible for any errors or omissions which have been incorporated into this document as a result.
CWM, INC.

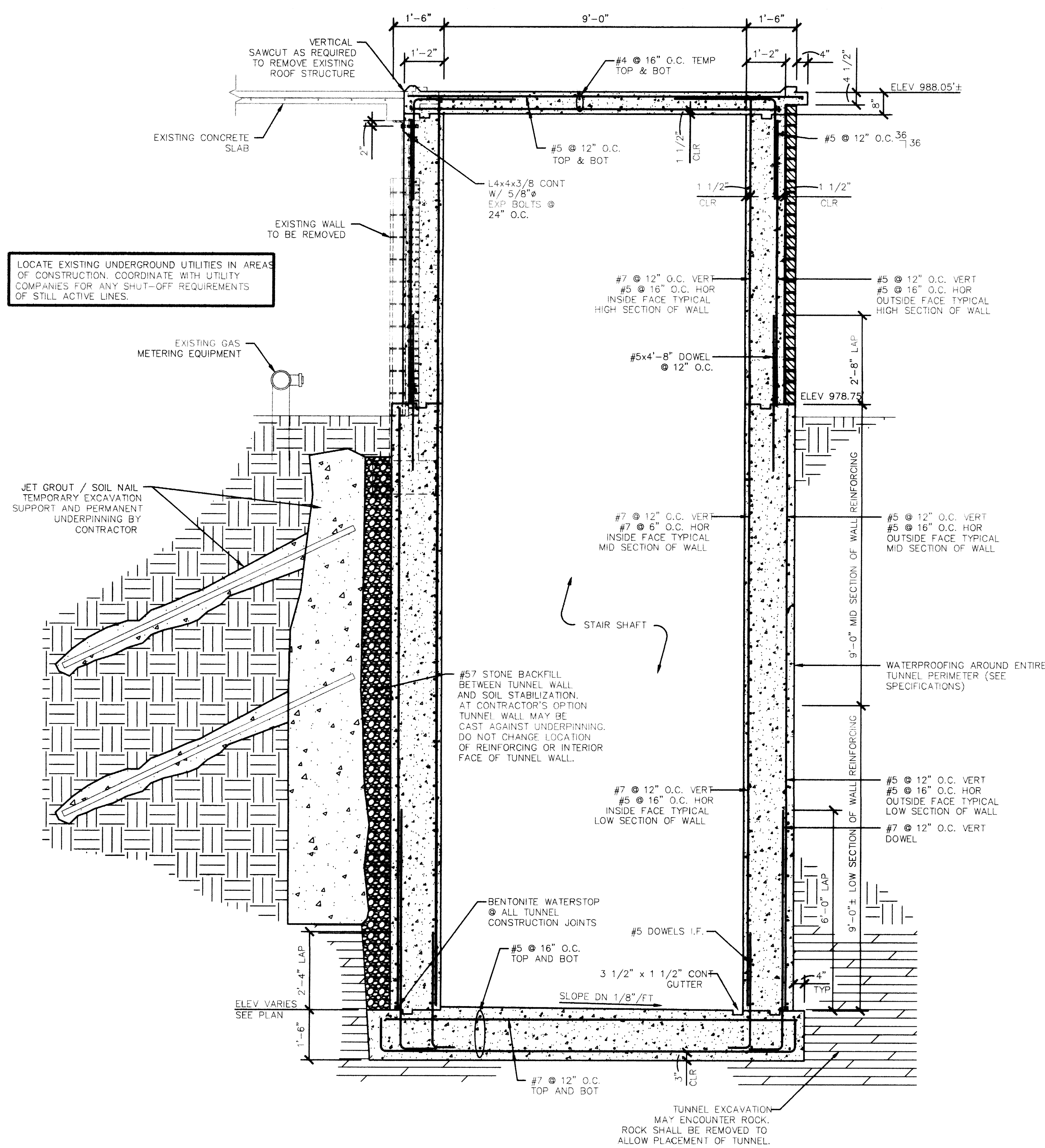


SUMP PIT DETAIL

1/2" = 1'-0"

A
3.9

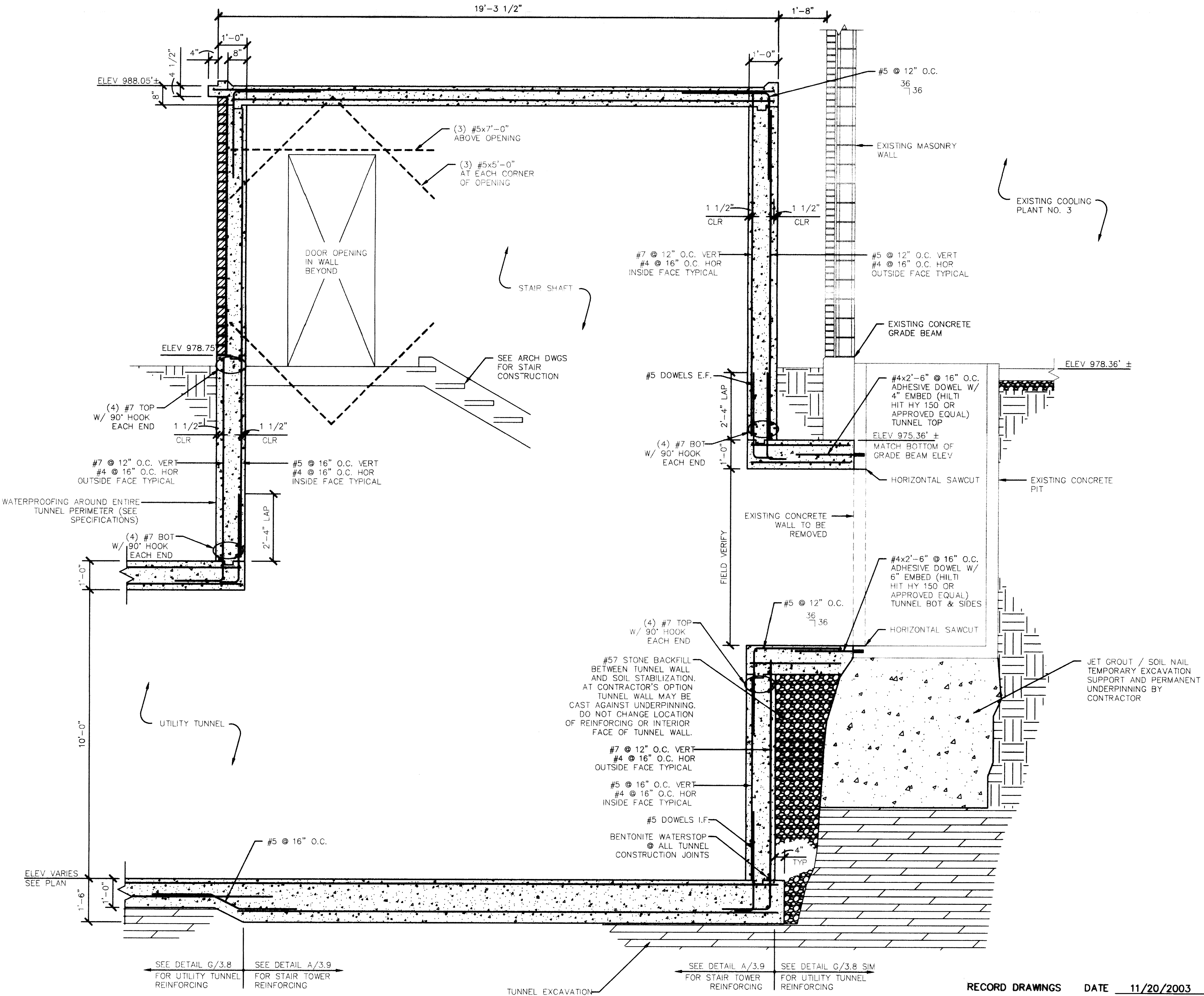
NOTES:
 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO EMPLOY A QUALIFIED FIRM TO ENGINEER AND CONSTRUCT A JET GROUT / SOIL NAIL SOIL STABILIZATION AND UNDERPINNING SYSTEM FOR ALL EXISTING WALLS AND FOUNDATIONS UNCOVERED DURING THE EXCAVATION AND CONSTRUCTION OF THE UTILITY TUNNEL. ALTERNATE MEANS OF STABILIZING / UNDERPINNING MAY BE PROPOSED TO, BUT ARE SUBJECT TO APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.



SECTION

1/2" = 1'-0"

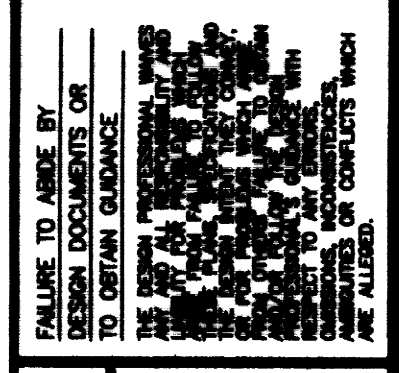
B
3.9



SECTION

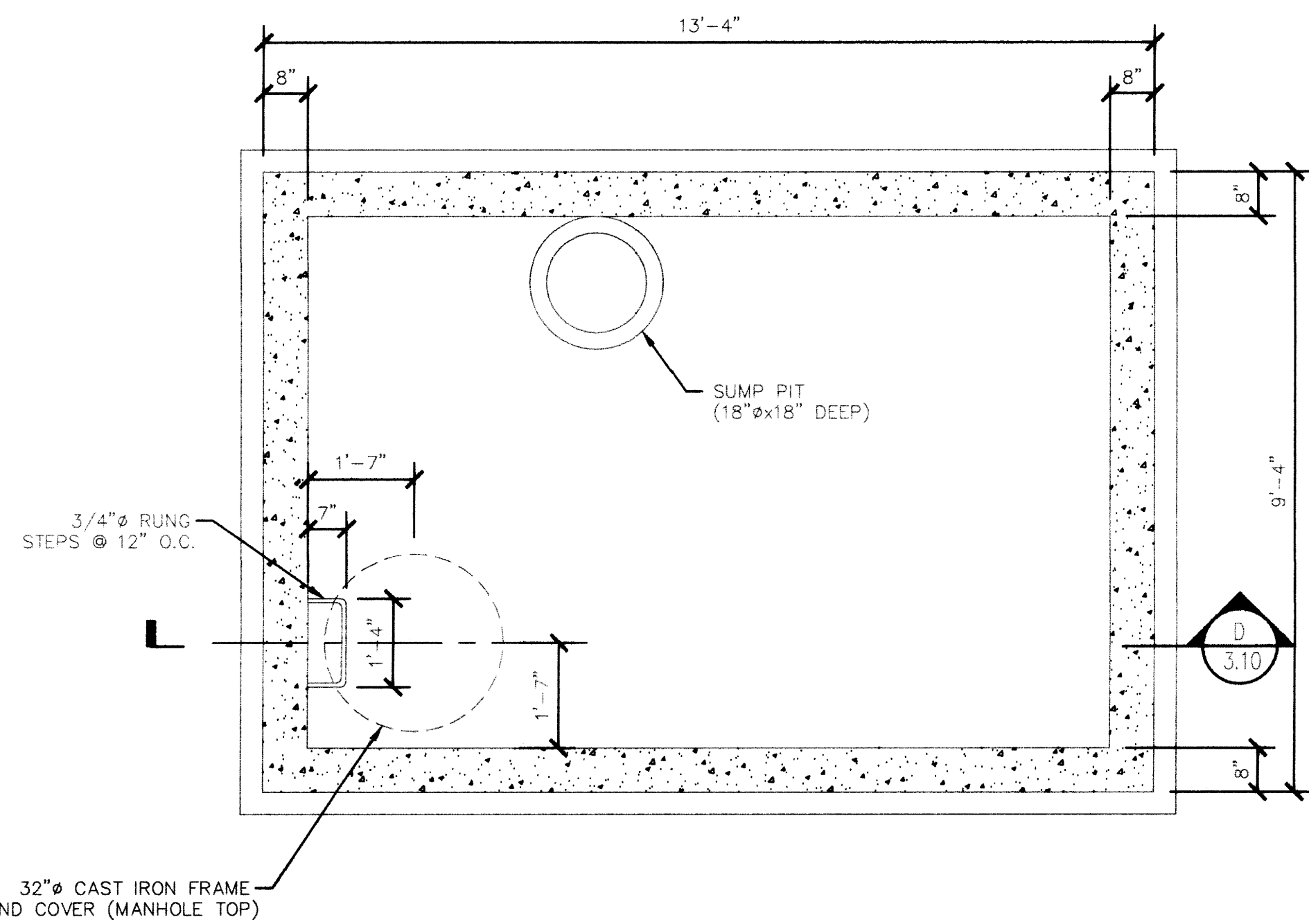
1/2" = 1'-0"

C
3.9



RECORD DRAWINGS DATE 11/20/2003
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 CMW, INC.

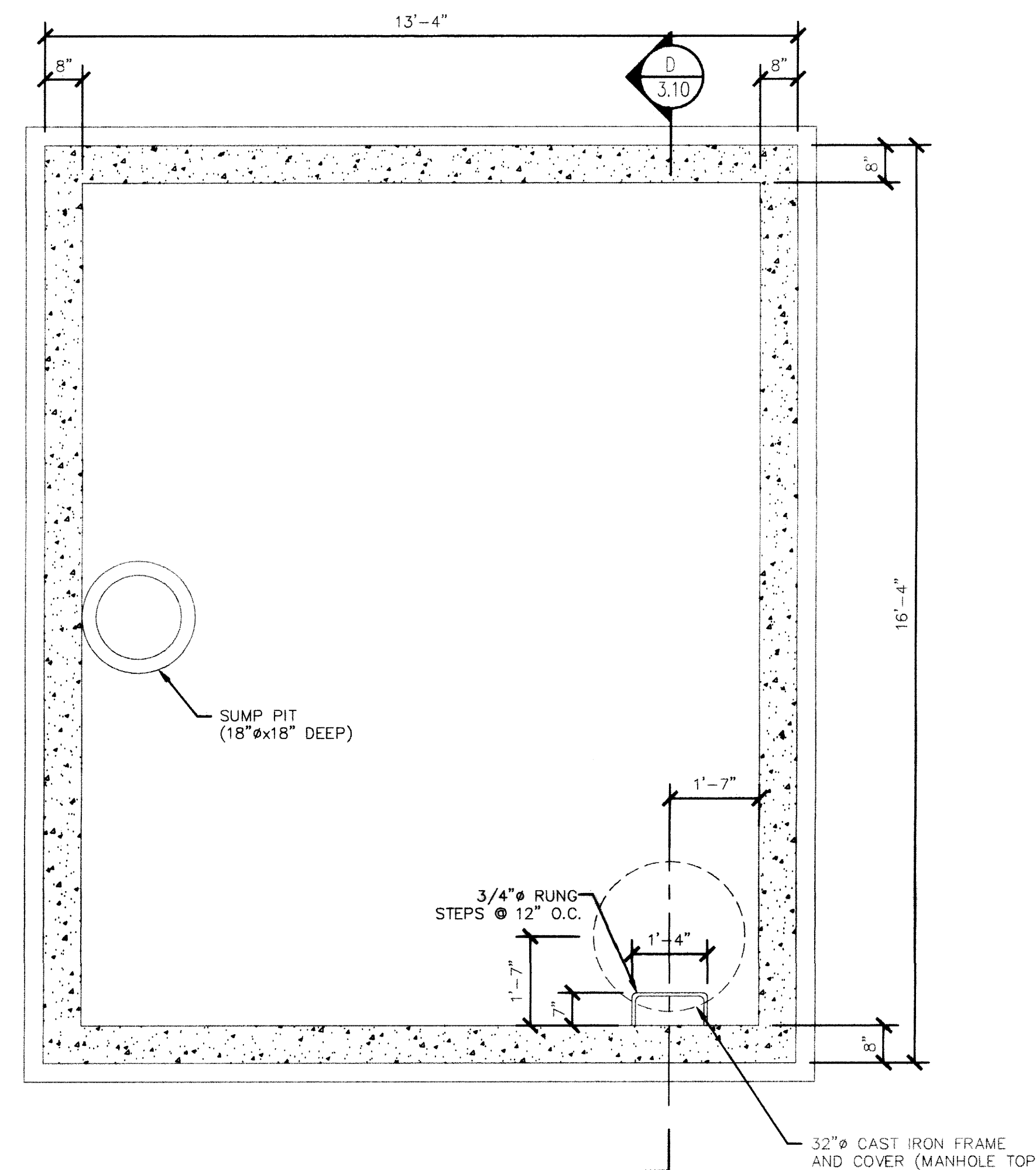
030946.dwg 10-23-00 2:03:17 pm EST



PLAN - 8' x 12' ELECTRIC MANHOLE

1/2" = 1'-0"

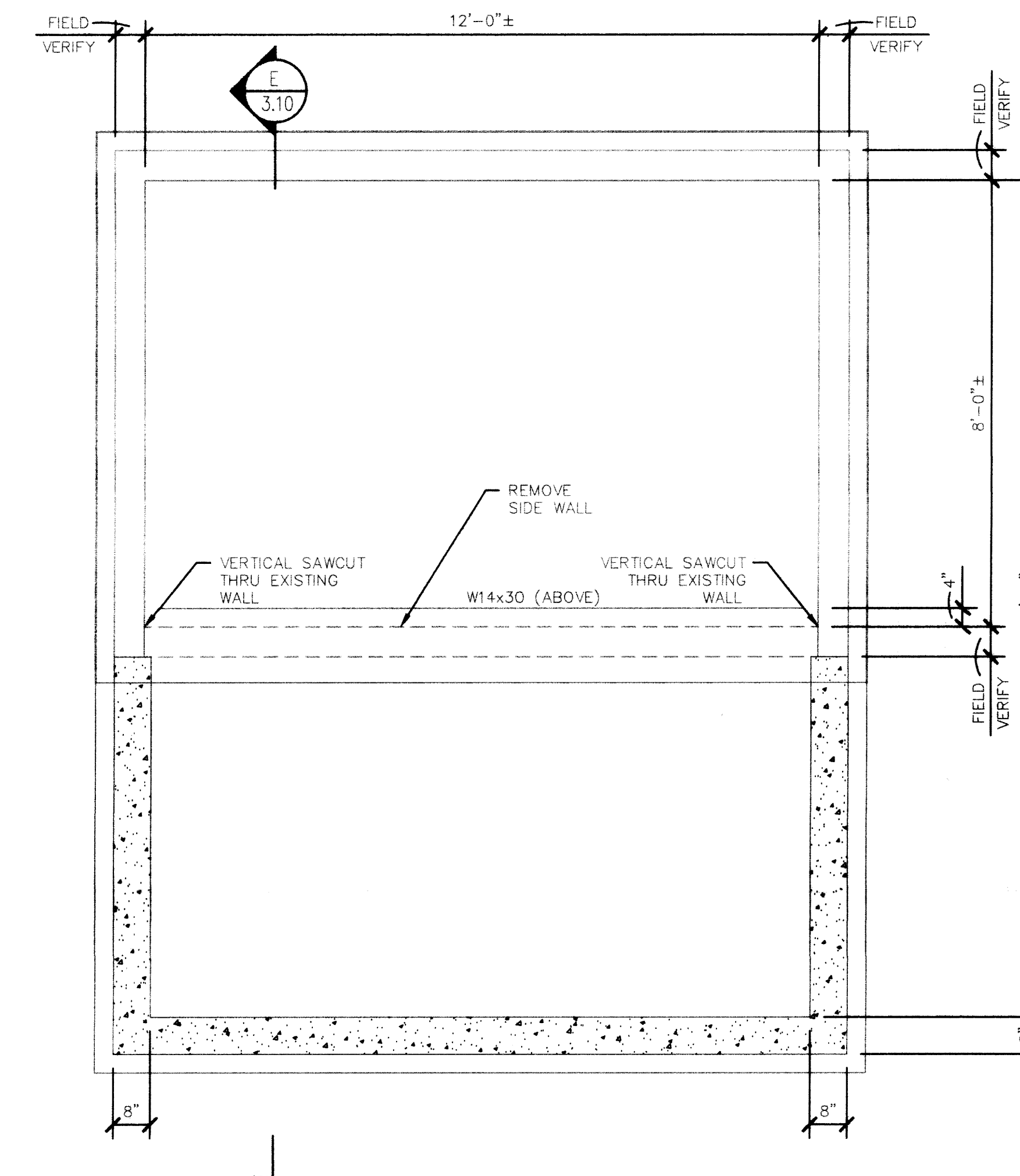
A
3.10



PLAN - 12' x 15' ELECTRIC MANHOLE

1/2" = 1'-0"

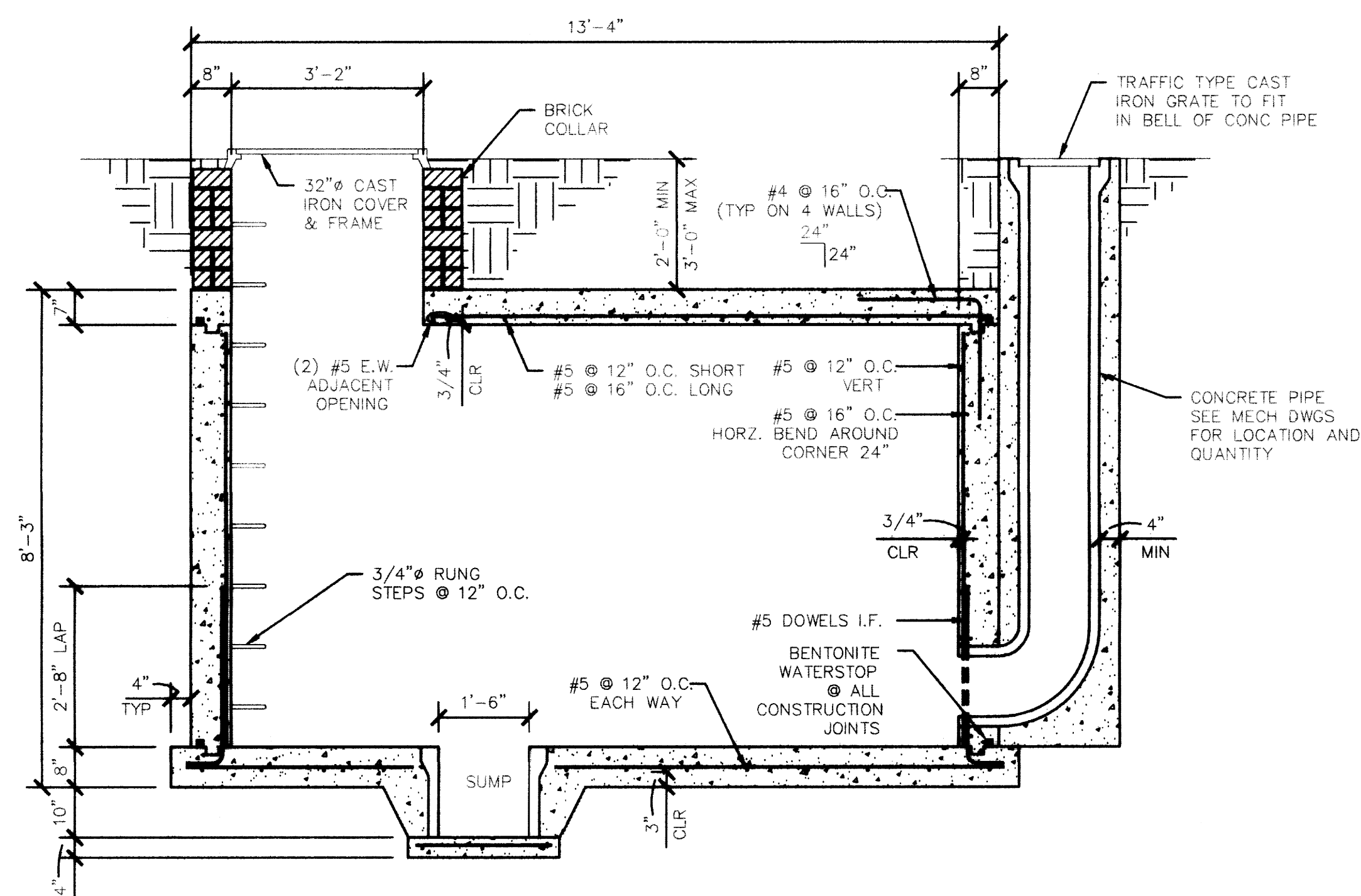
B
3.10



PLAN - ELECTRIC MANHOLE ADDITION

1/2" = 1'-0"

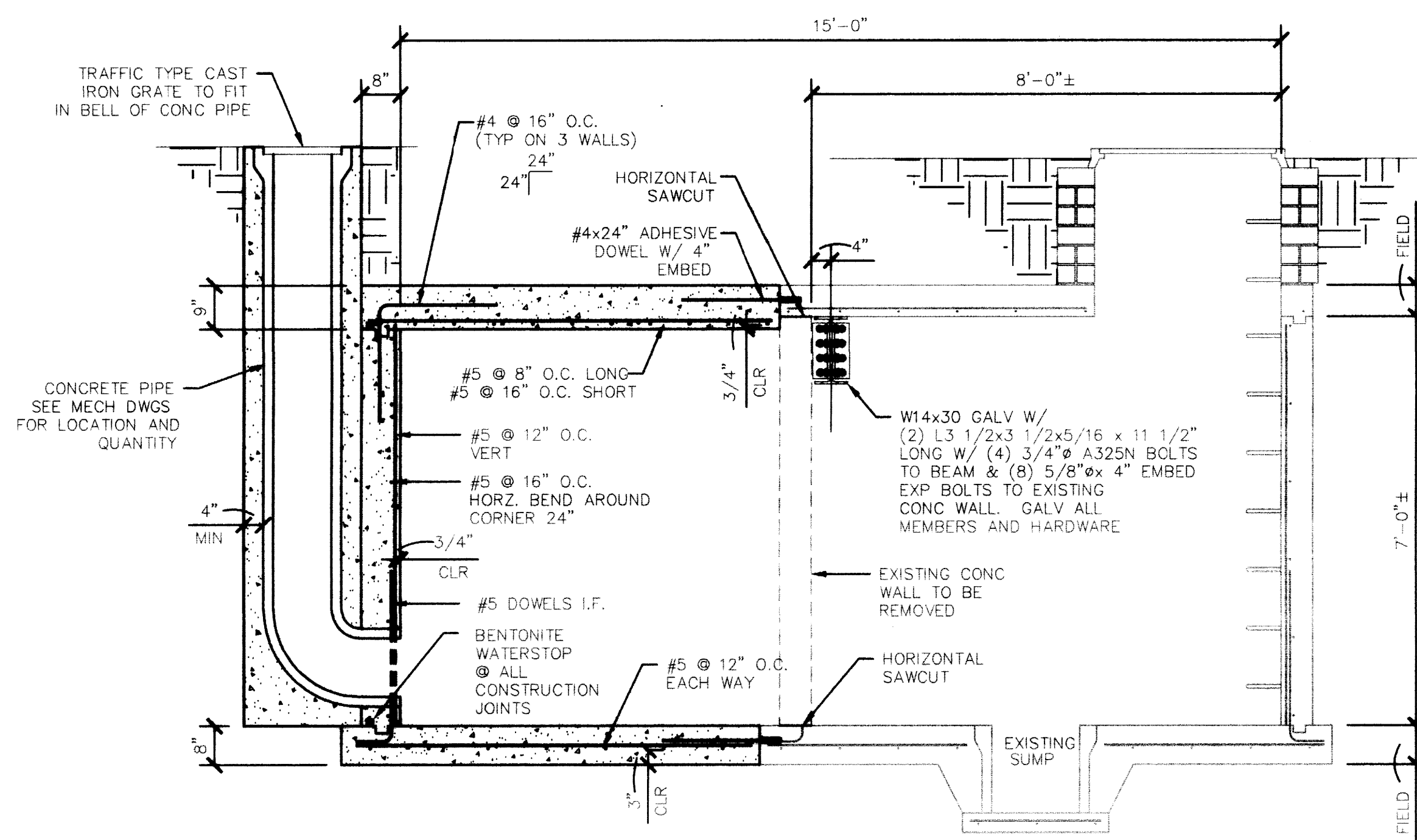
C
3.10



SECTION

1/2" = 1'-0"

D
3.10



SECTION

1/2" = 1'-0"

E
3.10

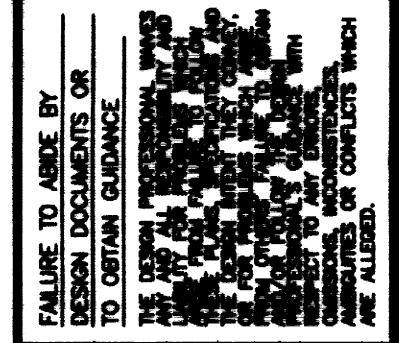
MANHOLE VAULT NOTES:

1. SEE MECHANICAL AND SITE DRAWINGS FOR MANHOLE LOCATION, ELEVATION, AND ORIENTATION.
2. EXCAVATIONS FOR VAULTS MAY ENCOUNTER ROCK. ROCK SHALL BE REMOVED TO 12" MINIMUM BELOW BEARING ELEVATION AND THE EXCAVATION BACKFILLED WITH CRUSHED STONE. SAID ROCK EXCAVATION SHALL BE AT NO ADDITIONAL COST TO OWNER.

RECORD DRAWINGS DATE 11/20/2003

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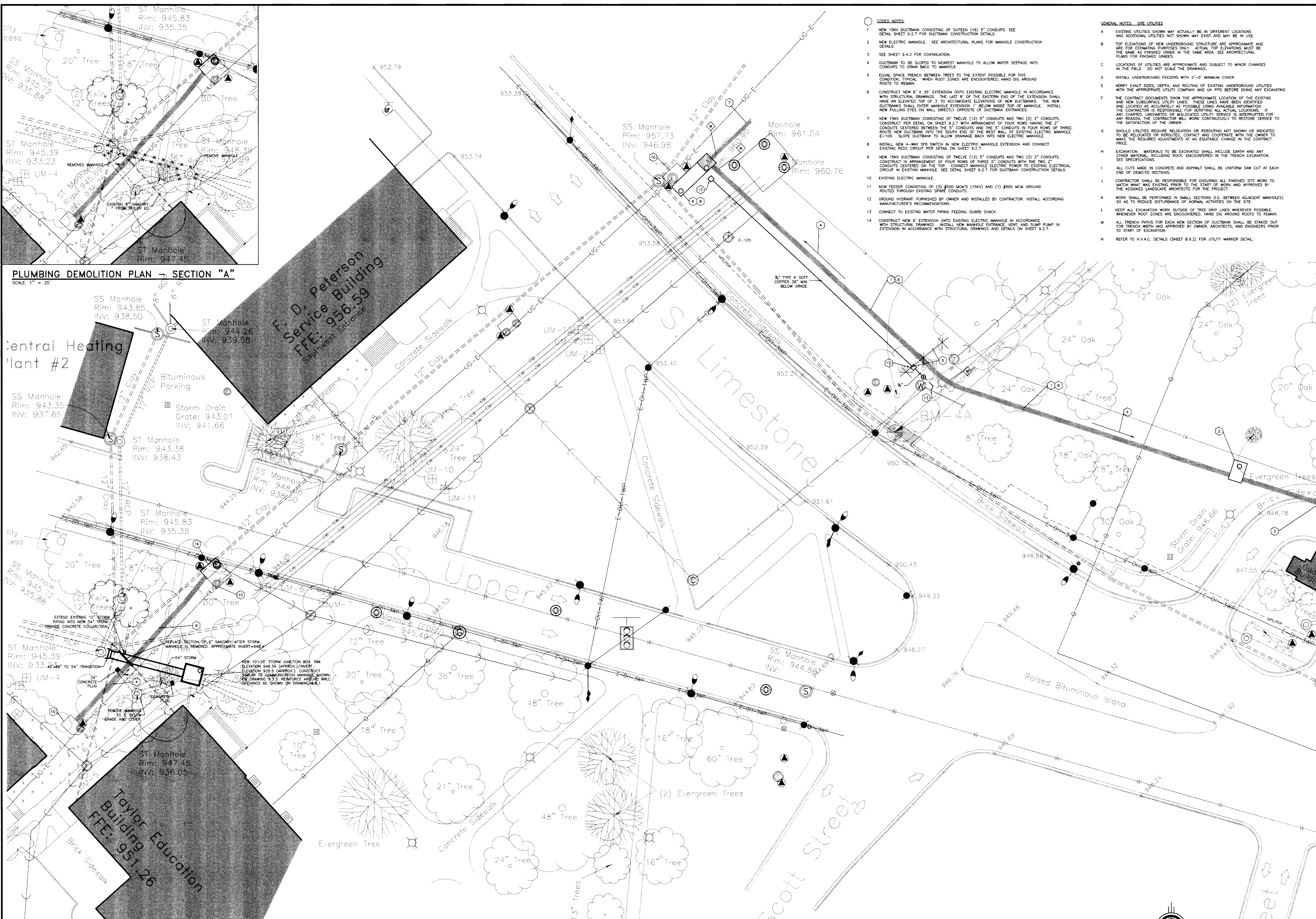
CMW, INC.



SHT.	PROJECT #
DATE	JUNE, 2003
DRAWN BY	DK
CHECKED BY	SCB
REVISIONS	
DATE	1
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	3
	4

SHEET NUMBER
3.10

PROJECT NUMBER
99024.02
CMW00037.01\031001.DWG



PLUMBING DEMOLITION PLAN - SECTION "A"
SCALE: 1" = 20'

NOTICE:
IT IS 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 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 CORRECTIONS CONCERNING THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

RECORD DRAWINGS DATE: 11/10/03
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STAGGS & FISHER CONSULTING ENGINEERS, INC.

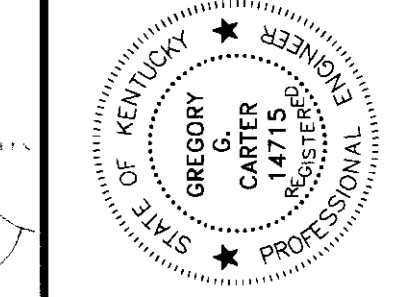
ELECTRICAL SITE PLAN - SECTION "A"
SCALE: 1" = 20'

- CODED NOTES:**
1. NEW 15KV DUCTBANK CONSISTING OF SIXTEEN (16) 5" CONDUITS. SEE DETAIL SHEET 9.2.7 FOR DUCTBANK CONSTRUCTION DETAILS.
 2. NEW ELECTRIC MANHOLE. SEE ARCHITECTURAL PLANS FOR MANHOLE CONSTRUCTION DETAILS.
 3. SEE SHEET 9.4.2 FOR CONTINUATION.
 4. DUCTBANK TO BE SLOPED TO NEAREST MANHOLE TO ALLOW WATER SEEPAGE INTO CONDUITS TO DRAIN BACK TO MANHOLE.
 5. EQUAL SPACE TRENCH BETWEEN TREES TO THE EXTENT POSSIBLE FOR THIS CONDITION. TYPICAL WHEN ROOT ZONES ARE ENCOUNTERED, HAND DIG AROUND ROOTS TO REMAIN.
 6. CONSTRUCT NEW 8" X 35' EXTENSION ONTO EXISTING ELECTRIC MANHOLE IN ACCORDANCE WITH STRUCTURAL DRAWINGS. THE LAST 8' OF THE EASTERN END OF THE EXTENSION SHALL HAVE AN ELEVATED TOP OF 3' TO ACCOMMODATE ELEVATIONS OF NEW DUCTBANKS. THE NEW DUCTBANKS SHALL ENTER MANHOLE EXTENSION 1' BELOW INSIDE TOP OF MANHOLE. INSTALL NEW PULLING EYES ON WALL DIRECTLY OPPOSITE OF DUCTBANK ENTRANCES.
 7. NEW 15KV DUCTBANK CONSISTING OF TWELVE (12) 5" CONDUITS AND TWO (2) 3" CONDUITS. CONSTRUCT PER DETAIL ON SHEET 9.2.7 WITH ARRANGEMENT OF FOUR ROWS HAVING THE 2" CONDUITS CENTERED BETWEEN THE 5" CONDUITS AND THE 5" CONDUITS IN FOUR ROWS OF THREE. ROUTE NEW DUCTBANK INTO THE SOUTH END OF THE WEST WALL OF EXISTING ELECTRIC MANHOLE E-106. SLOPE DUCTBANK TO ALLOW DRAINAGE BACK INTO NEW ELECTRIC MANHOLE.
 8. INSTALL NEW 4-WAY SP8 SWITCH IN NEW ELECTRIC MANHOLE EXTENSION AND CONNECT EXISTING REDD2 CIRCUIT PER DETAIL ON SHEET 9.2.7.
 9. NEW 15KV DUCTBANK CONSISTING OF TWELVE (12) 5" CONDUITS AND TWO (2) 3" CONDUITS. CONSTRUCT IN ARRANGEMENT OF FOUR ROWS OF THREE 5" CONDUITS WITH THE TWO 3" CONDUITS CENTERED ON THE TOP. CONNECT MANHOLE ELECTRIC POWER TO EXISTING ELECTRICAL CIRCUIT IN EXISTING MANHOLE. SEE DETAIL SHEET 9.2.1 FOR DUCTBANK CONSTRUCTION DETAILS.
 10. EXISTING ELECTRIC MANHOLE.
 11. NEW FEEDER CONSISTING OF (3) #500 MCM'S (15KV) AND (1) #500 MCM GROUND ROUTED THROUGH EXISTING SPARE CONDUITS.
 12. GROUND HYDRANT FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. INSTALL ACCORDING MANUFACTURER'S RECOMMENDATIONS.
 13. CONNECT TO EXISTING WATER PIPING FEEDING GUARD SHACK.
 14. CONSTRUCT NEW 6" EXTENSION ONTO EXISTING ELECTRIC MANHOLE IN ACCORDANCE WITH STRUCTURAL DRAWINGS. INSTALL NEW MANHOLE ENTRANCE, VENT AND SLUMP PUMP IN EXTENSION IN ACCORDANCE WITH STRUCTURAL DRAWINGS AND DETAILS ON SHEET 9.2.7.

- GENERAL NOTES - SITE UTILITIES:**
- A. EXISTING UTILITIES SHOWN MAY ACTUALLY BE IN DIFFERENT LOCATIONS AND ADDITIONAL UTILITIES NOT SHOWN MAY EXIST AND MAY BE IN USE.
 - B. TOP ELEVATIONS OF NEW UNDERGROUND STRUCTURE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. ACTUAL TOP ELEVATIONS MUST BE THE SAME AS FINISHED GRADE IN THE SAME AREA. SEE ARCHITECTURAL PLANS FOR FINISHED GRADES.
 - C. LOCATIONS OF UTILITIES ARE APPROXIMATE AND SUBJECT TO MINOR CHANGES IN THE FIELD. DO NOT SCALE THE DRAWINGS.
 - D. INSTALL UNDERGROUND FEEDERS WITH 2'-0" MINIMUM COVER.
 - E. VERIFY EXACT SIZES, DEPTH, AND ROUTING OF EXISTING UNDERGROUND UTILITIES WITH THE APPROPRIATE UTILITY COMPANY AND UK PPD BEFORE DOING ANY EXCAVATING.
 - F. THE CONTRACT DOCUMENTS SHOW THE APPROXIMATE LOCATION OF THE EXISTING AND NEW SUBSURFACE UTILITY LINES. THESE LINES HAVE BEEN IDENTIFIED AND LOCATED AS ACCURATELY AS POSSIBLE USING AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL LOCATIONS. IF ANY CHARTER, UNLIMITED OR MISLOCATED UTILITY SERVICE IS INTERRUPTED FOR ANY REASON, THE CONTRACTOR WILL WORK CONTINUOUSLY TO RESTORE SERVICE TO THE SATISFACTION OF THE OWNER.
 - G. SHOULD UTILITIES REQUIRE RELOCATION OR REROUTING NOT SHOWN OR INDICATED TO BE RELOCATED OR REROUTED, CONTACT AND COOPERATE WITH THE OWNER TO MAKE THE REQUIRED ADJUSTMENTS AT AN EQUITABLE CHANGE IN THE CONTRACT PRICE.
 - H. EXCAVATION: MATERIALS TO BE EXCAVATED SHALL INCLUDE EARTH AND ANY OTHER MATERIAL, INCLUDING ROCK, ENCOUNTERED IN THE TRENCH EXCAVATION. SEE SPECIFICATIONS.
 - I. ALL CUTS MADE IN CONCRETE AND ASPHALT SHALL BE UNIFORM SAW CUT AT EACH END OF EXCAVATED SECTIONS.
 - J. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL FINISHED SITE WORK TO MATCH WHAT WAS EXISTING PRIOR TO THE START OF WORK AND APPROVED BY THE ASSIGNED LANDSCAPE ARCHITECTS FOR THE PROJECT.
 - K. WORK SHALL BE PERFORMED IN SMALL SECTIONS (I.E. BETWEEN ADJACENT MANHOLES) SO AS TO REDUCE DISTURBANCE OF NORMAL ACTIVITIES ON THE SITE.
 - L. KEEP ALL EXCAVATION WORK OUTSIDE OF TREE DRIP LINES WHEREVER POSSIBLE. WHENEVER ROOT ZONES ARE ENCOUNTERED, HAND DIG AROUND ROOTS TO REMAIN.
 - M. ALL TRENCH PATHS FOR EACH NEW SECTION OF DUCTBANK SHALL BE STAKED OUT FOR TRENCH WIDTH AND APPROVED BY OWNER, ARCHITECTS, AND ENGINEERS PRIOR TO START OF EXCAVATION.
 - N. REFER TO H.V.A.C. DETAILS (SHEET 9.9.2) FOR UTILITY MARKER DETAIL.

CJM
CONSULTING ENGINEERS, INC.
ARCHITECTS AND ENGINEERS
1000 EAST MAIN STREET
LEXINGTON, KENTUCKY 40502
(606) 254-6823
FAX: (606) 254-6828

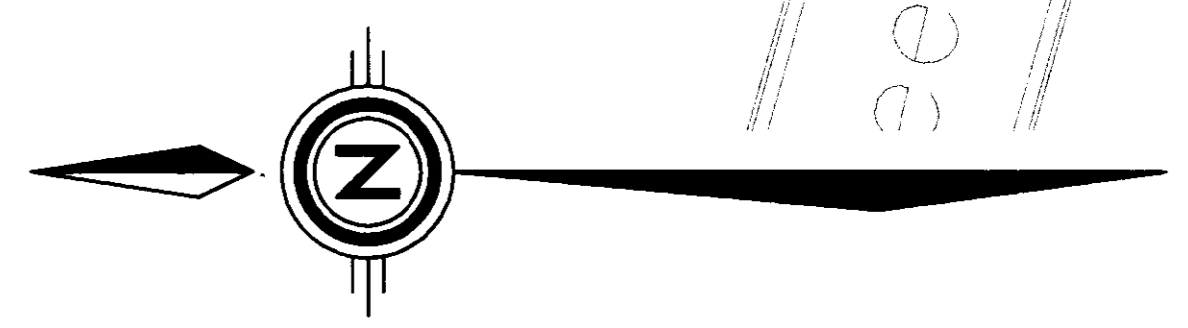
SF
Staggs and Fisher
Consulting Engineers, Inc.
1000 EAST MAIN STREET
LEXINGTON, KENTUCKY 40517
(606) 254-6823



ELECTRICAL SITE PLAN - SECTION "A"
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

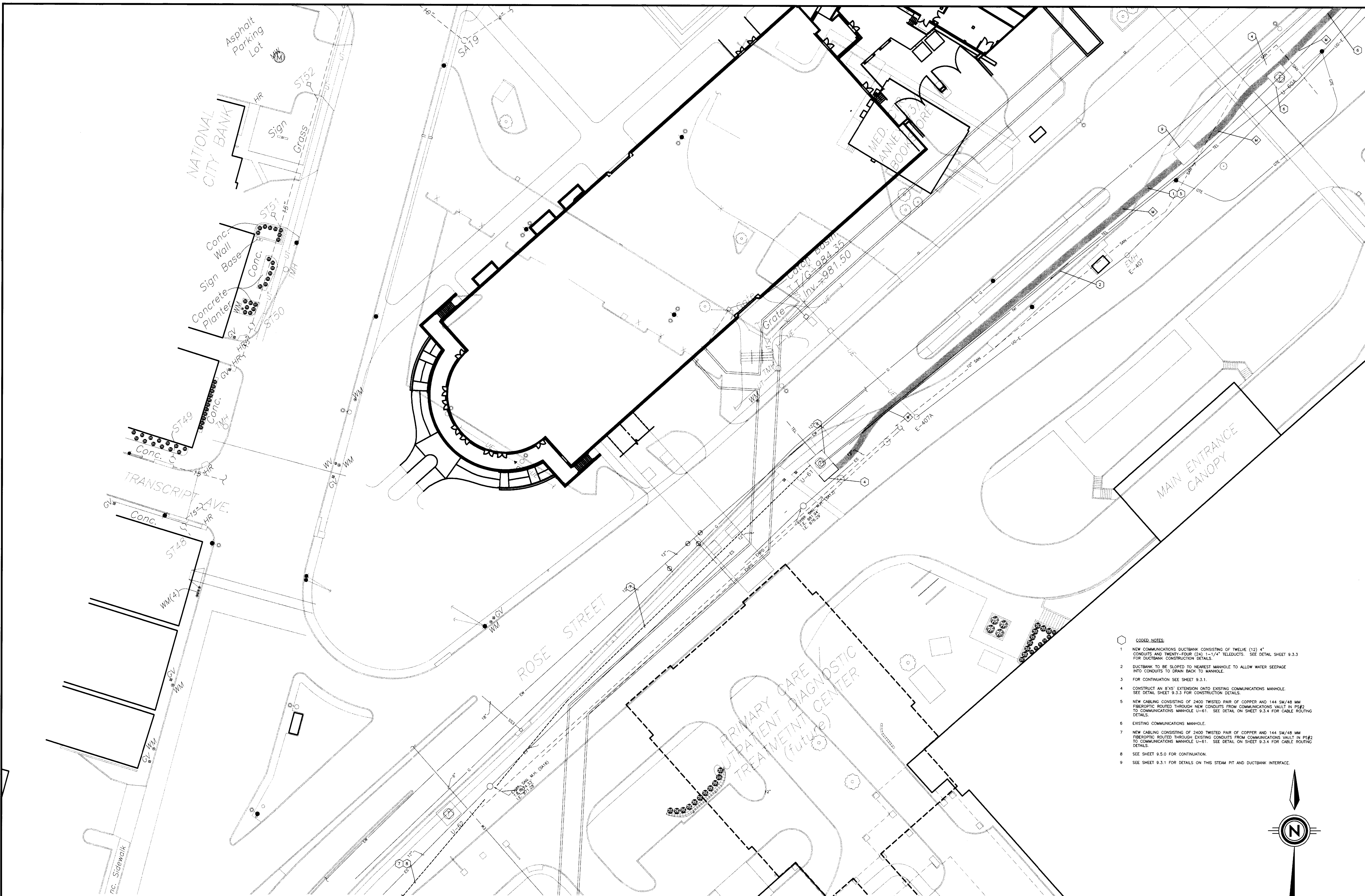
SHT. PROJECT TITLE
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DRAWN BY: WPN
CHECKED BY: GGC
REVISED: DATE

SHEET NUMBER
9.2.0
PROJECT NUMBER
99024.02

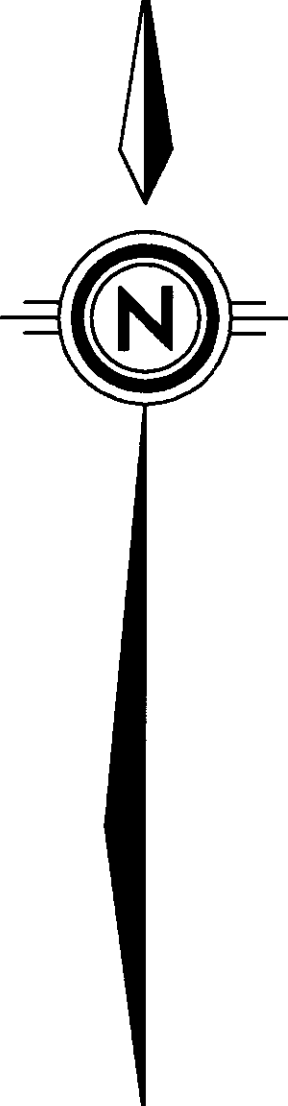


AREA #4 - LIMESTONE

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- CODED NOTES:**
- 1 NEW COMMUNICATIONS DUCTBANK CONSISTING OF TWELVE (12) 4" CONDUITS AND TWENTY-FOUR (24) 1-1/4" TELEDUCTS. SEE DETAIL SHEET 9.3.3 FOR DUCTBANK CONSTRUCTION DETAILS.
 - 2 DUCTBANK TO BE SLOPED TO NEAREST MANHOLE TO ALLOW WATER SEEPAGE INTO CONDUITS TO DRAIN BACK TO MANHOLE.
 - 3 FOR CONTINUATION SEE SHEET 9.3.1.
 - 4 CONSTRUCT AN 8" EXTENSION ONTO EXISTING COMMUNICATIONS MANHOLE. SEE DETAIL SHEET 9.3.3 FOR CONSTRUCTION DETAILS.
 - 5 NEW CABLING CONSISTING OF 2400 TWISTED PAIR OF COPPER AND 144 5M/48 MM FIBEROPTIC ROUTED THROUGH EXISTING CONDUITS FROM COMMUNICATIONS VAULT IN PS#2 TO COMMUNICATIONS MANHOLE U-61. SEE DETAIL ON SHEET 9.3.4 FOR CABLE ROUTING DETAILS.
 - 6 EXISTING COMMUNICATIONS MANHOLE.
 - 7 NEW CABLING CONSISTING OF 2400 TWISTED PAIR OF COPPER AND 144 5M/48 MM FIBEROPTIC ROUTED THROUGH EXISTING CONDUITS FROM COMMUNICATIONS VAULT IN PS#2 TO COMMUNICATIONS MANHOLE U-61. SEE DETAIL ON SHEET 9.3.4 FOR CABLE ROUTING DETAILS.
 - 8 SEE SHEET 9.5.0 FOR CONTINUATION.
 - 9 SEE SHEET 9.3.1 FOR DETAILS ON THIS STEAM PIT AND DUCTBANK INTERFACE.



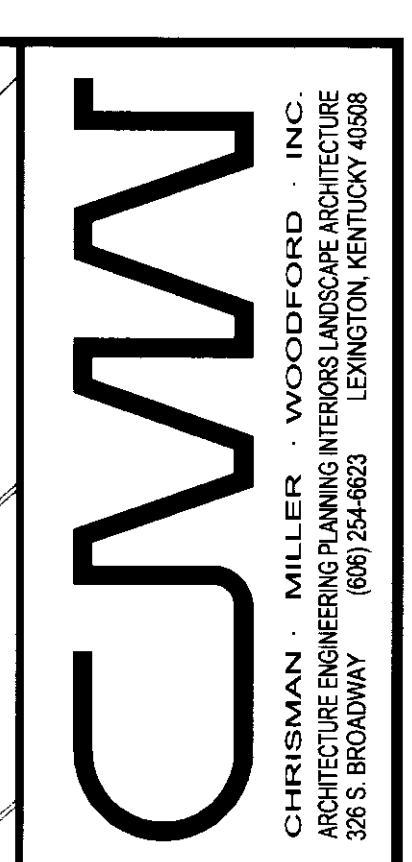
NOTE:
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ROSE - ELECTRICAL SITE PLAN - SECTION "C"
 SCALE: 1" = 20'

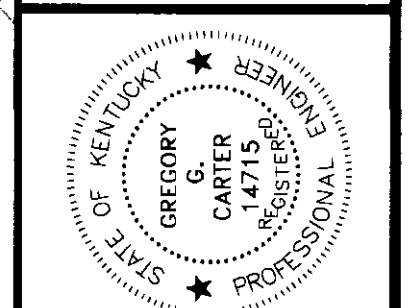
RECORD DRAWINGS DATE 11/10/03

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STAGGS & FISHER CONSULTING ENGINEERS, INC.



SF
 Stiggs and Fisher
 Consulting Engineers, Inc.
 1000 Lexington Avenue
 Lexington, Kentucky 40517



PROJECT TITLE
 PROJECT NO.
 SHEET NO.
 DATE

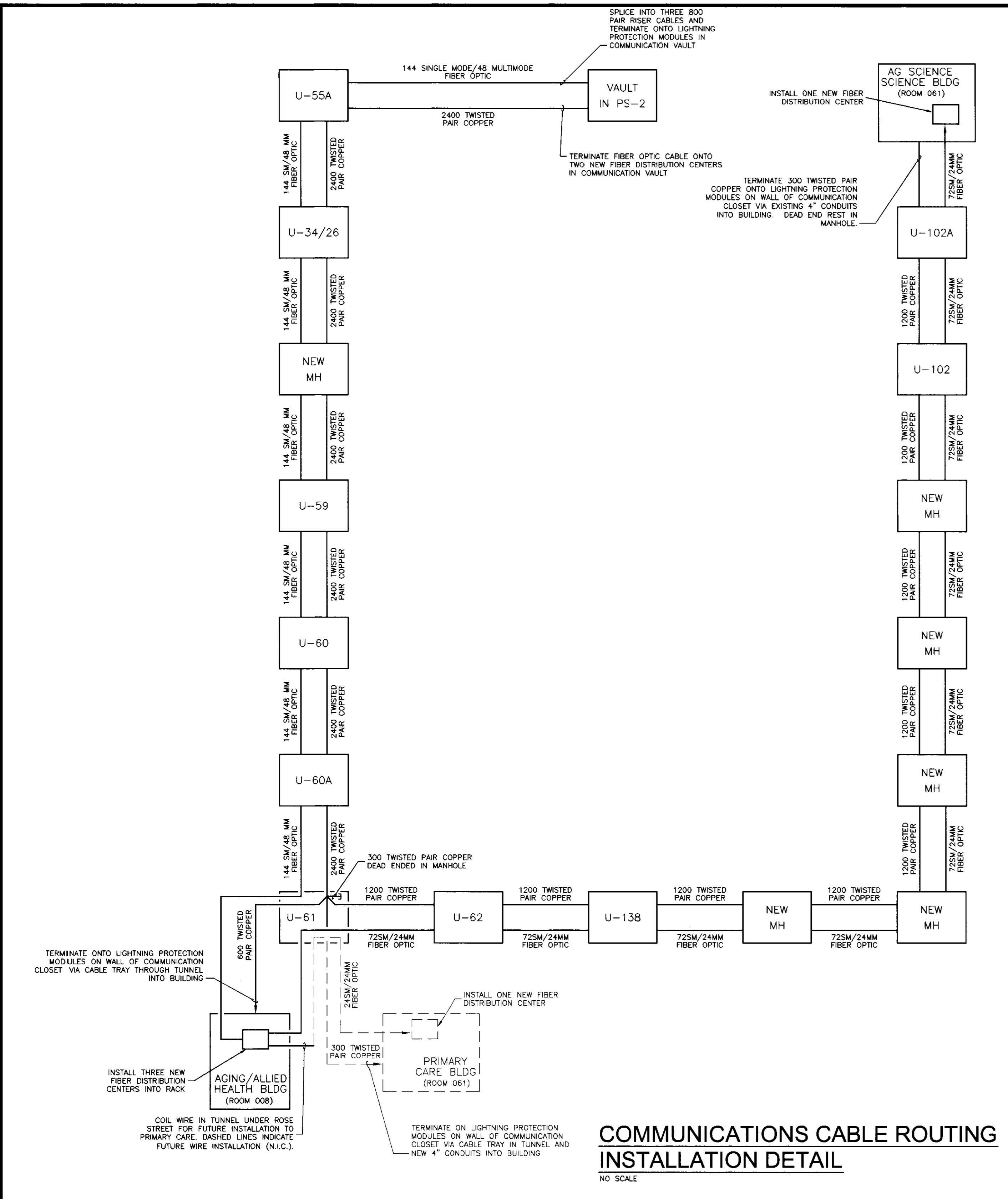
DESIGNED BY
 DRAWN BY
 CHECKED BY
 REVISIONS

ELECTRICAL SITE PLAN - SECTION "C"
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

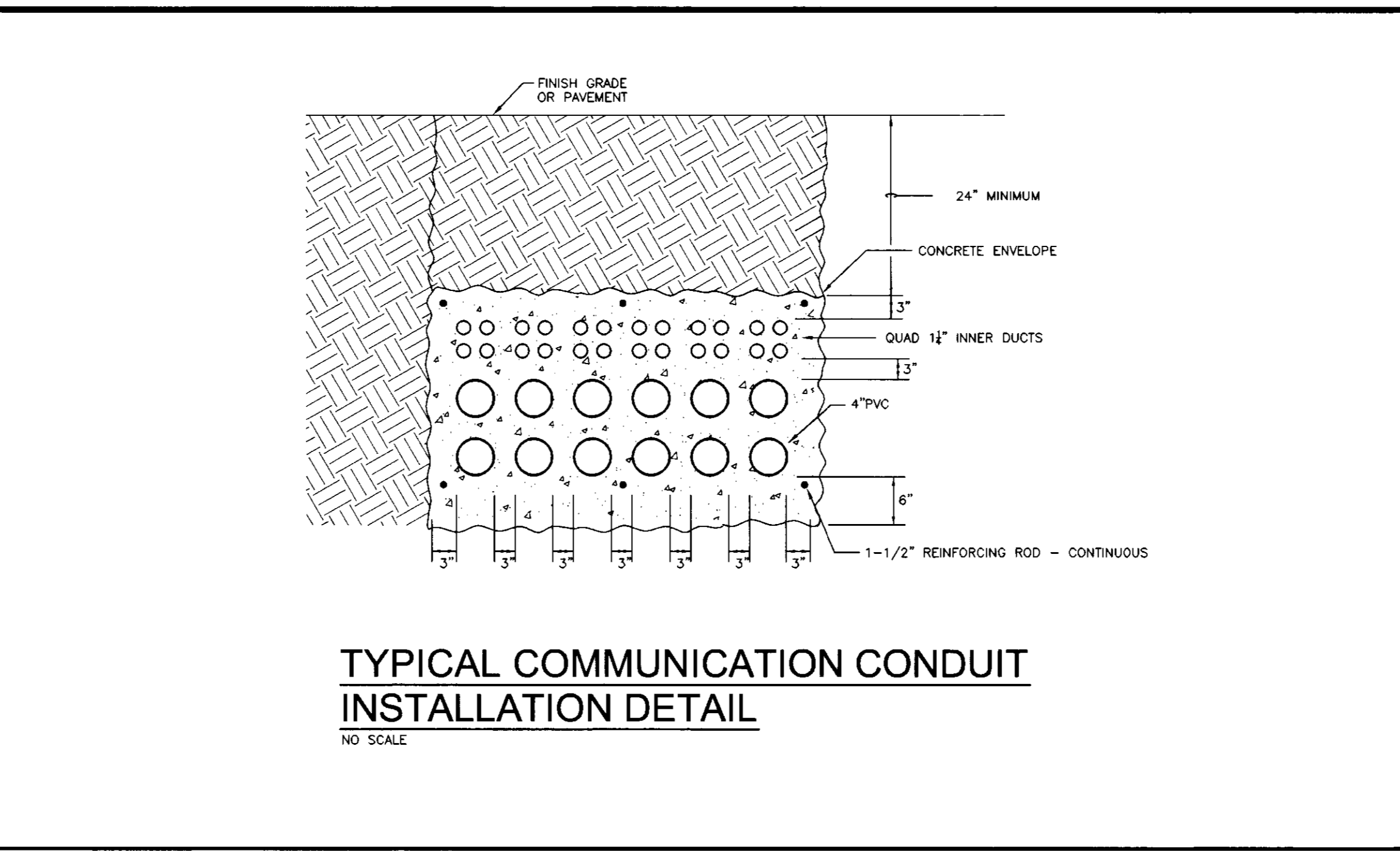
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 DATE: DECEMBER 2000
 DRAWN BY: WPW
 CHECKED BY: ggc
 REVISED: #
 DATE

SHEET NUMBER
9.3.2

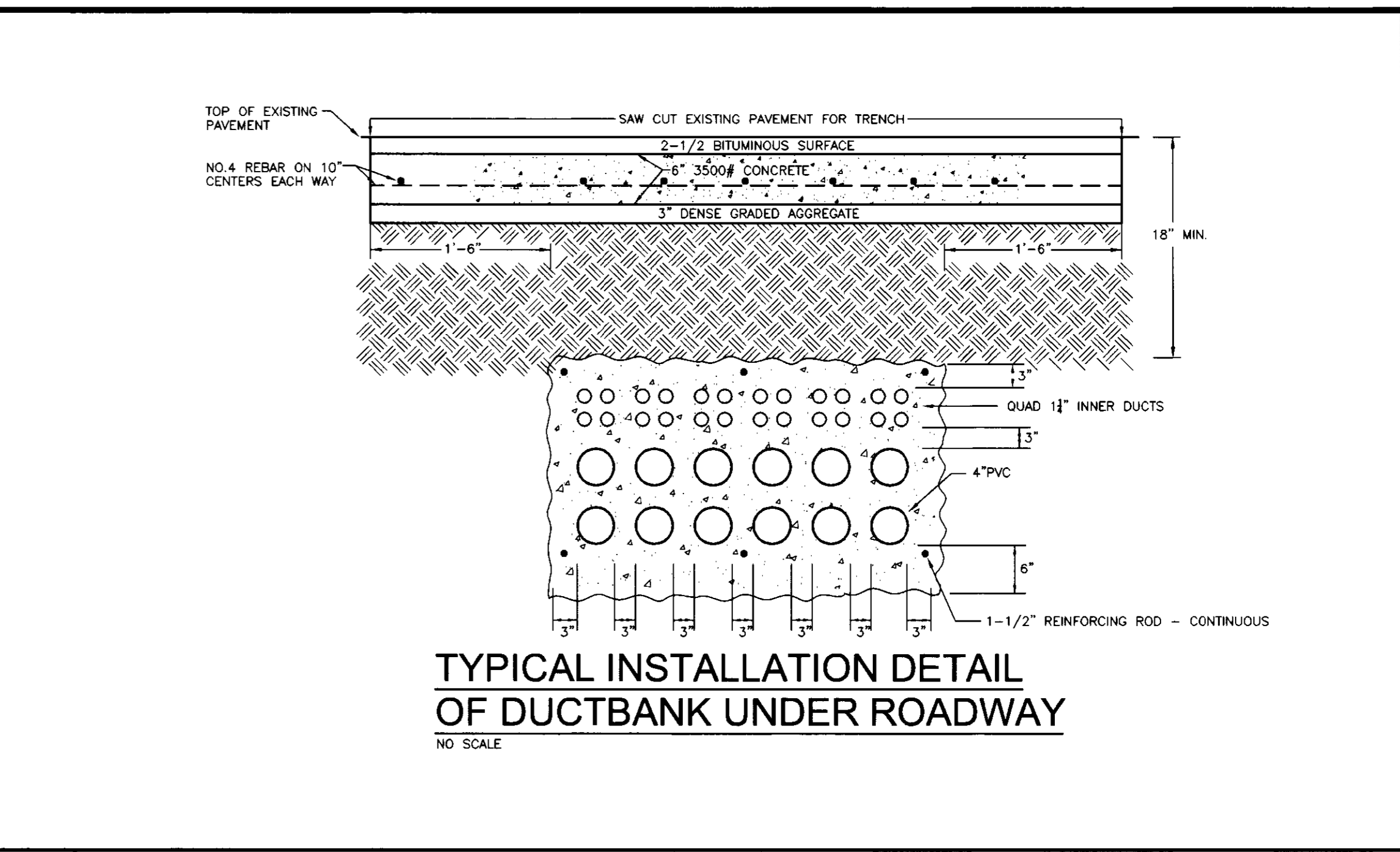
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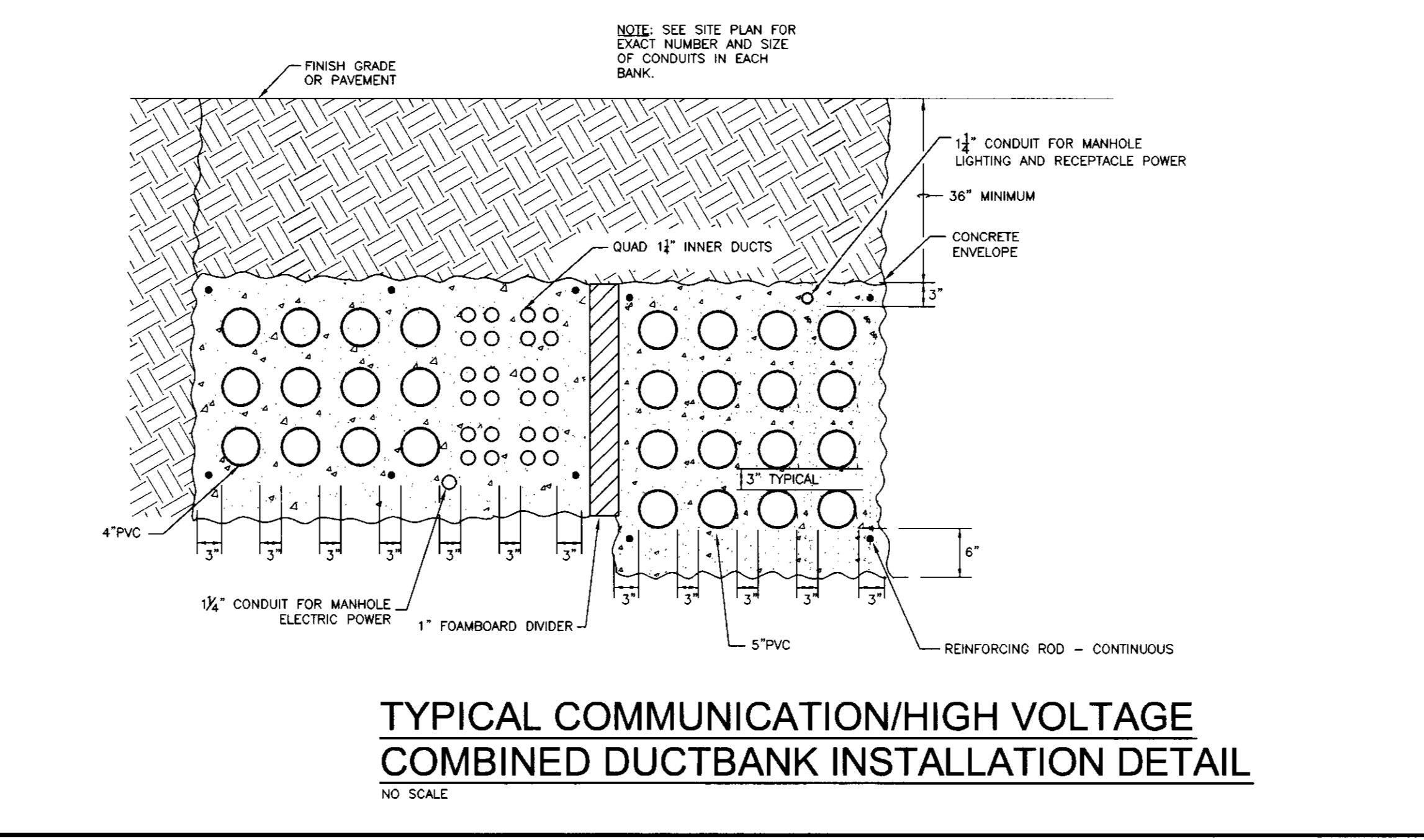
**COMMUNICATIONS CABLE ROUTING
INSTALLATION DETAIL**
NO SCALE



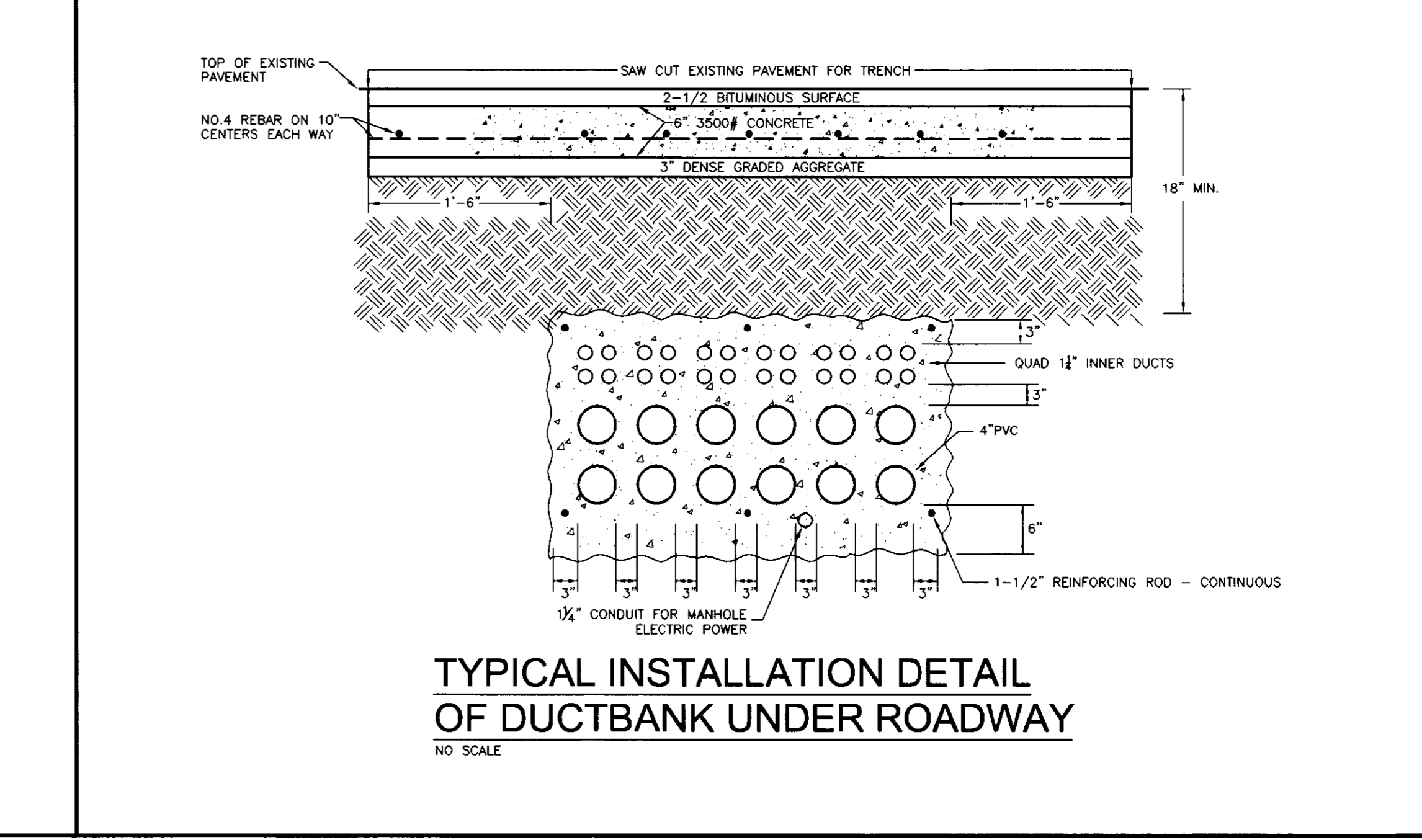
**TYPICAL COMMUNICATION CONDUIT
INSTALLATION DETAIL**
NO SCALE



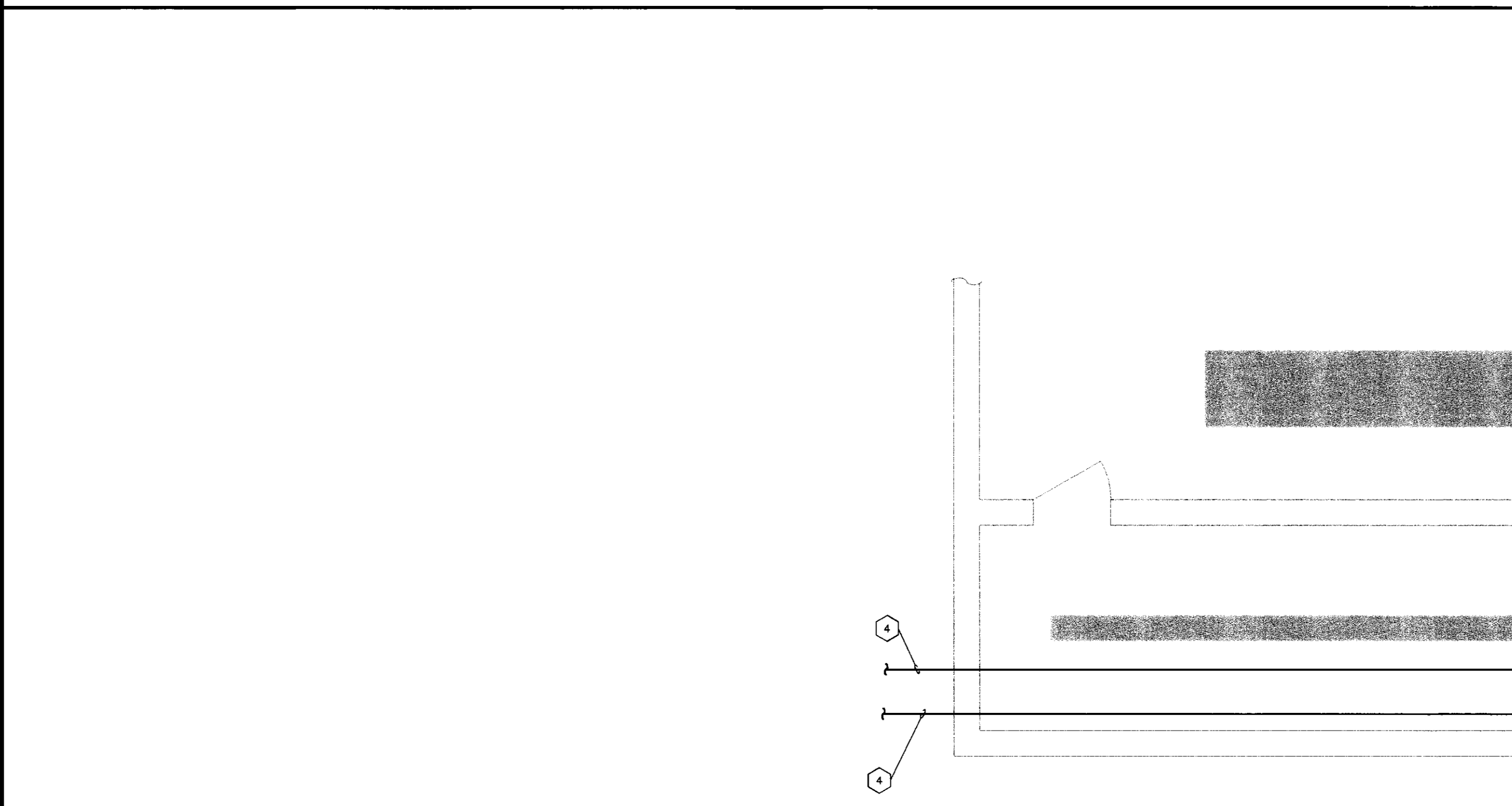
**TYPICAL INSTALLATION DETAIL
OF DUCTBANK UNDER ROADWAY**
NO SCALE



**TYPICAL COMMUNICATION/HIGH VOLTAGE
COMBINED DUCTBANK INSTALLATION DETAIL**
NO SCALE



**TYPICAL INSTALLATION DETAIL
OF DUCTBANK UNDER ROADWAY**
NO SCALE



**COMMUNICATION VAULT
ENTRANCE DETAIL**
SCALE: 1/4" = 1'-0"

- CODED NOTES:**
- 1 RUN THROUGH EXISTING WALL PENETRATIONS.
 - 2 THREE 800 PAIR SHIELDED RISER CABLES.
 - 3 TERMINATE INTO 24 100 PAIR PROTECTOR BLOCKS WITH PROTECTION MODULES.
 - 4 SEE SHEET 9.3.0 FOR CONTINUATION TO MANHOLE U-55A.
 - 5 144 STRAND SINGLE MODE AND 48 STRAND MULTI-MODE FIBER OPTIC CABLE.
 - 6 INSTALL TWO NEW FIBER DISTRIBUTION CENTERS IN EXISTING RACK. COORDINATE LOCATION WITH OWNER.
 - 7 TERMINATE FIBER OPTIC CABLE IN NEW FIBER DISTRIBUTION CENTER.

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 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 CONTRACTORS CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

RECORD DRAWINGS DATE 11/10/03
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STAGGS & FISHER CONSULTING ENGINEERS, INC.

CJM
CHRISMAN - MILLER - WOODFORD - INC.
ENGINEERS ARCHITECTS
305 S. BROADWAY
LEXINGTON, KENTUCKY 40517
(606) 254-8822

SF
Staggs & Fisher
Consulting Engineers, Inc.
305 S. Broadway, Suite 40517
Lexington, Kentucky 40517
(606) 254-8822

PROFESSIONAL SEAL
GREGORY CARTER
44715
REGISTERED PROFESSIONAL ENGINEER
KENTUCKY

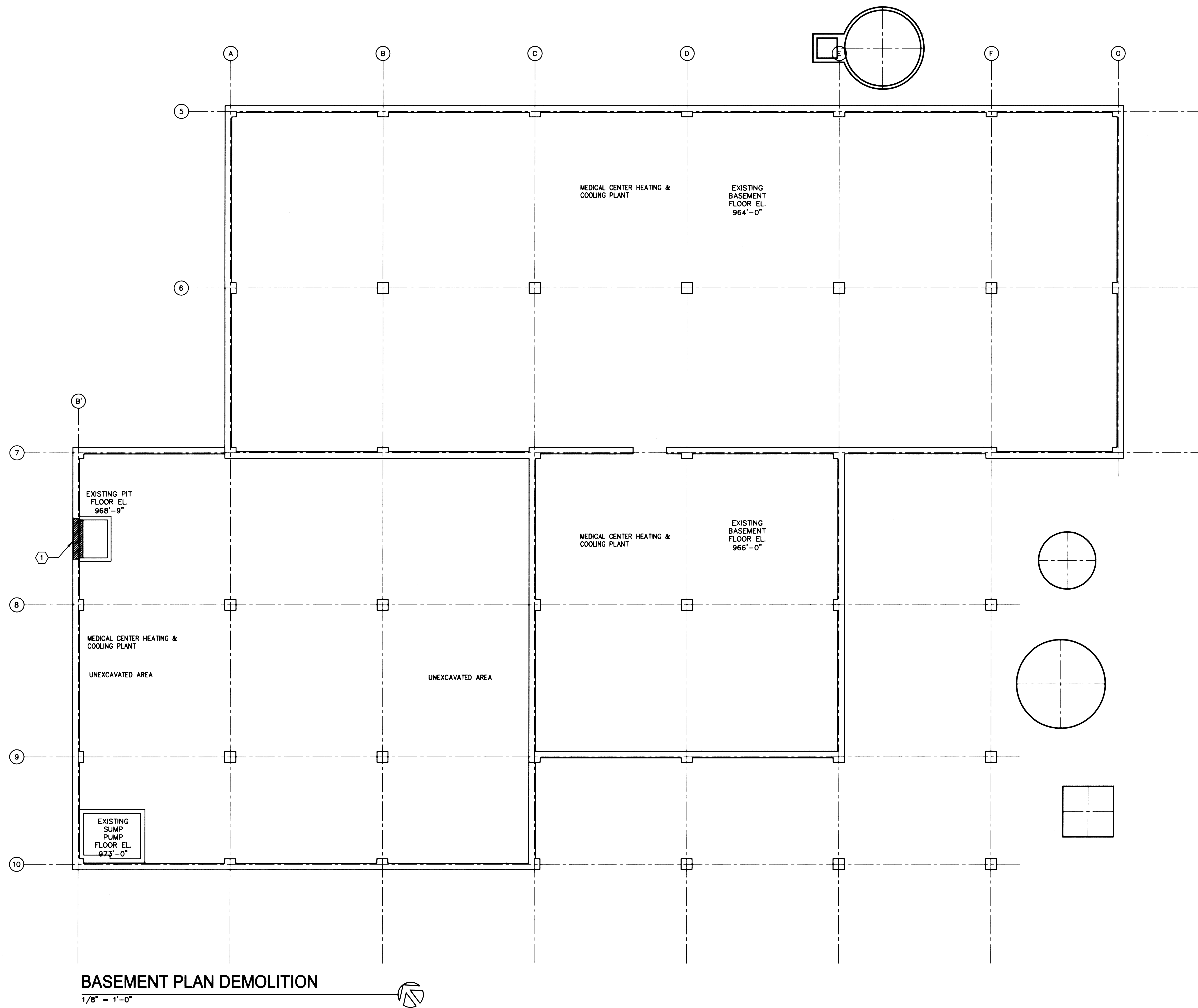
ELECTRICAL DETAILS
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE
DATE DECEMBER 2000
DRAWN BY: WFW
CHECKED BY: GGC
REVISED:
DATE

SHEET NUMBER
9.3.4

PROJECT NUMBER
99024.02

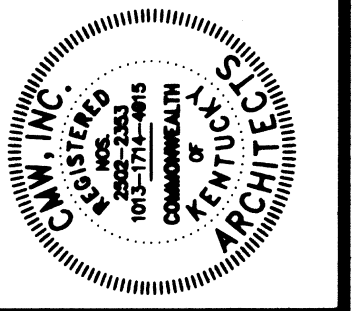
174 C-2 25522



SHEET NOTES

① CONCRETE WALL: REMOVE SECTION OF WALL. SUPPORT REMAINING WALL AS REQUIRED.

CMW
CHRISMAN · MILLER · WOODFORD · INC.
ARCHITECTS · ENGINEERS · INTERIORS · LANDSCAPE ARCHITECTURE
174 C-2



DESIGNED BY: M. W. WOODFORD
CHECKED BY: B. D. BROWN
DATE: 11/20/2003

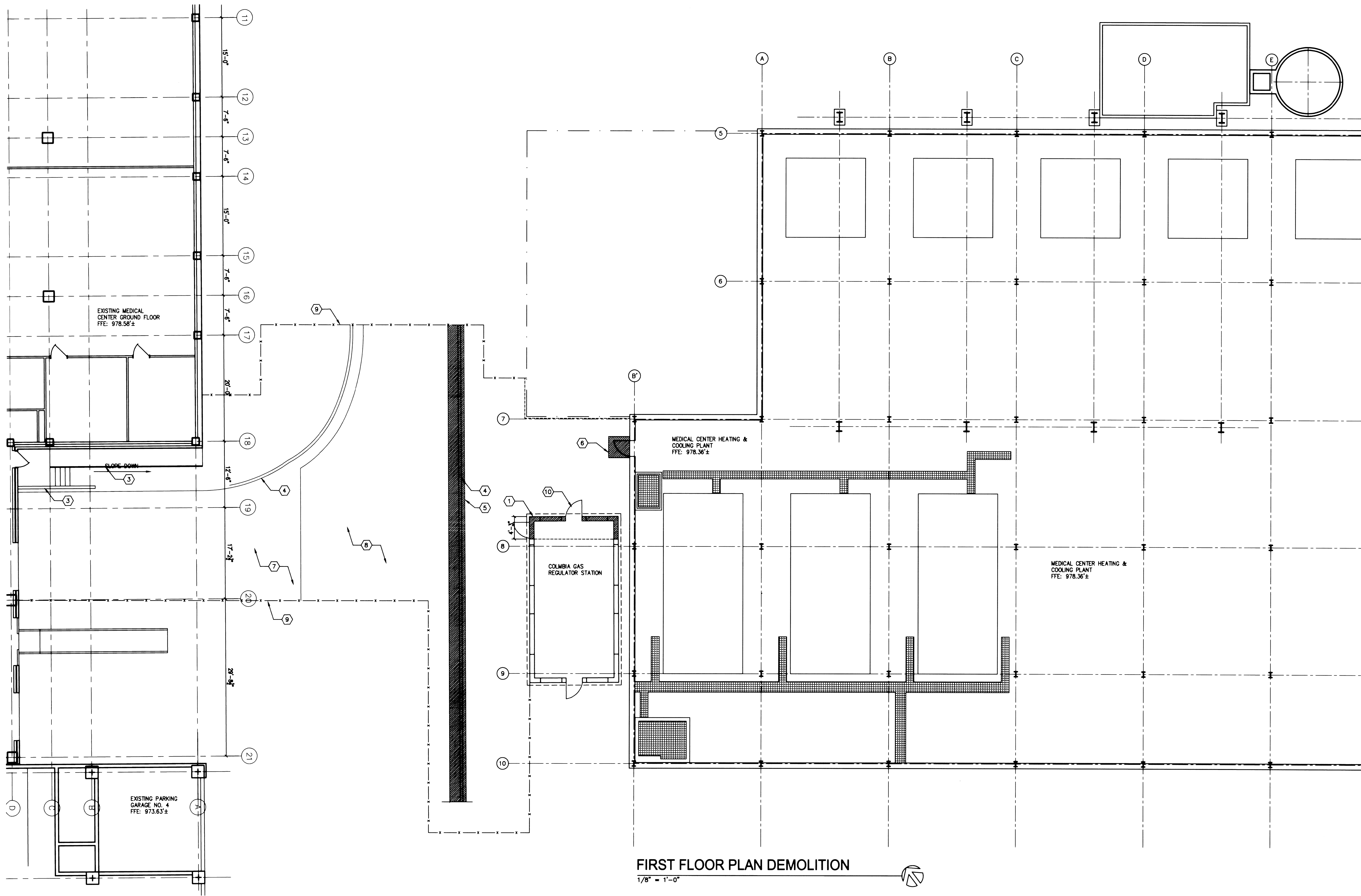
BASEMENT PLAN DEMOLITION
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE
DATE: DECEMBER, 2000
DRAWN BY: M.W.
CHECKED BY: B.D.
REVIS: 1
DATE: 1
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STAGGS & FISHER
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COMMUNITY

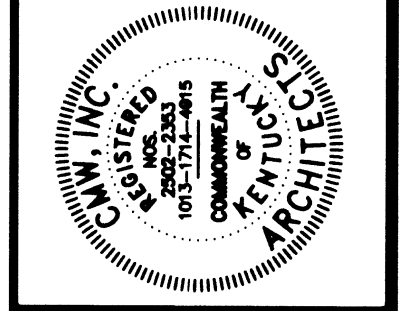
SHEET NUMBER
12.1
PROJECT NUMBER
99024.02

RECORD DRAWINGS DATE 11/20/2003
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CMW, INC.



FIRST FLOOR PLAN DEMOLITION
1/8" = 1'-0"

- SHEET NOTES**
- 1 GAS HOUSE WALLS SHALL BE REMOVED WHERE INDICATED. GAS HOUSE CONCRETE ROOF SHALL BE SUPPORTED AS REQUIRED.
 - 2 MASONRY WALL: REMOVAL AND REPLACEMENT OF MASONRY WALL SHALL BE BY CHILLER CONTRACTOR, N.I.C.
 - 3 REMOVE CONCRETE WALL, STAIR AND RAMP.
 - 4 REMOVE CONCRETE CURB.
 - 5 REMOVE KEYSTONE RETAINING WALL, AND STORE FOR REINSTALLATION.
 - 6 REMOVE CONCRETE PAD.
 - 7 REMOVE CONCRETE PAVEMENT.
 - 8 REMOVE ASPHALT PAVEMENT.
 - 9 CONSTRUCTION LIMITS: TEMPORARY CHAIN LINK FENCE, 6'-0" HIGH.
 - 10 REMOVE DOOR AND FRAME FOR REUSE. REFER TO NEW WORK PLAN FOR LOCATION.



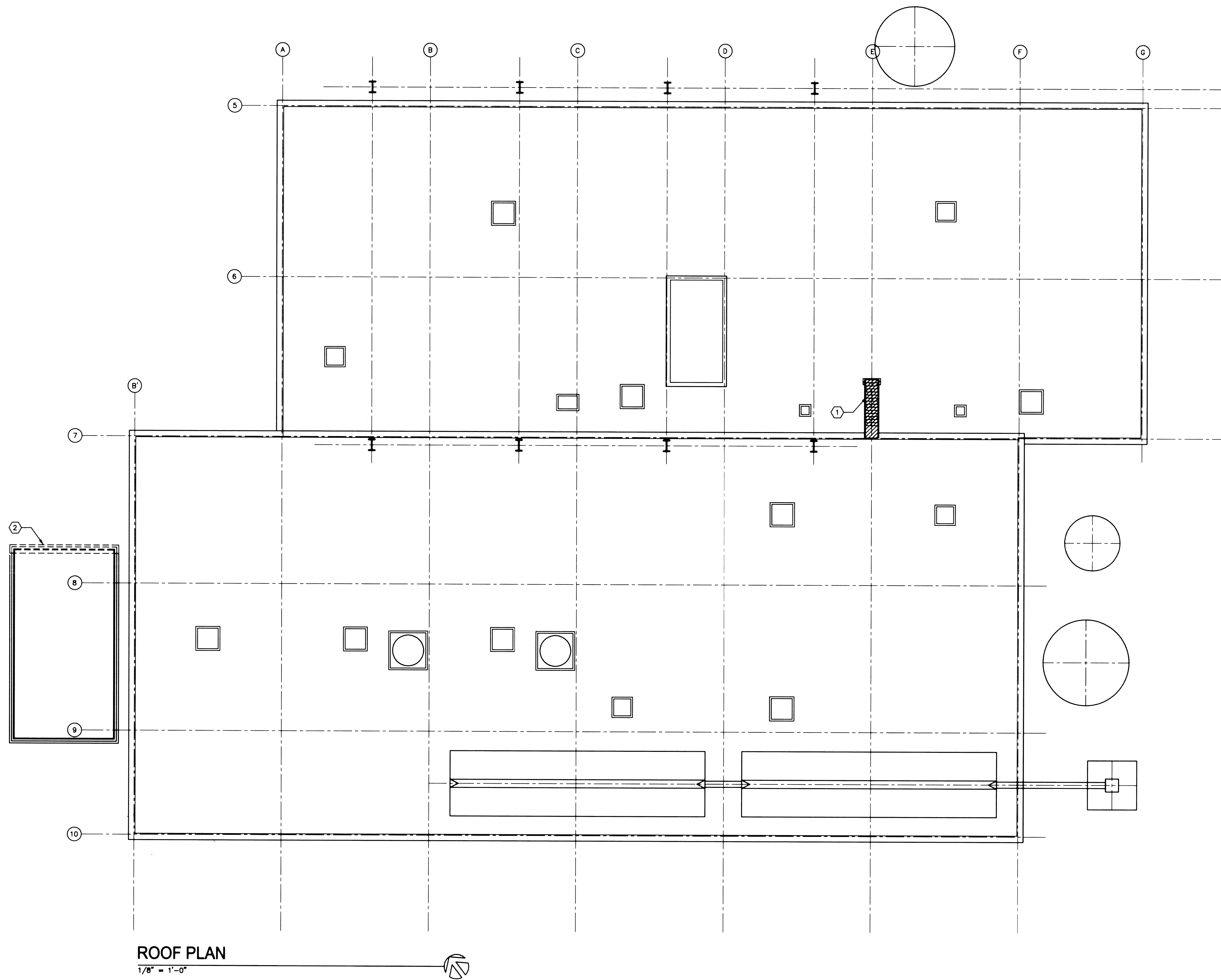
SCALE TO BE USED BY
DESIGN PROFESSIONALS OR
TO OBTAIN DIMENSIONS
PLEASE REFER TO THE DRAWING
FOR THE CORRECT SCALE TO BE USED.
THIS DRAWING IS THE PROPERTY OF
CMW, INC. AND IS TO BE USED ONLY
FOR THE PROJECT AND SITE SPECIFICALLY
IDENTIFIED HEREON. IT IS NOT TO BE
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OR IN PART, OR TRANSMITTED IN ANY
MANNER OR BY ANY MEANS, WITHOUT
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FIRST FLOOR PLAN DEMOLITION
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

RECORD DRAWINGS DATE 11/20/2003
STAGES
MAR 01 2004

RECORD DRAWINGS DATE 11/20/2003
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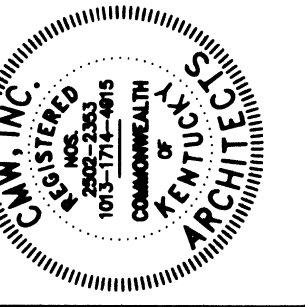
SHT.	PROJECT TITLE
DATE	DECEMBER, 2000
DRAWN BY:	M.W.
CHECKED BY:	B.D.
REVISED:	
DATE	1
	2
	3
	4
SHEET NUMBER	
12.2	
PROJECT NUMBER	
99024.02	



ROOF PLAN
1/8" = 1'-0"

SHEET NOTES

- ① EXISTING LADDER SHALL BE RELOCATED. REFER TO A/3.2.
- ② GAS HOUSE ROOF SHALL BE CUT BACK. REFER TO B/3.8.



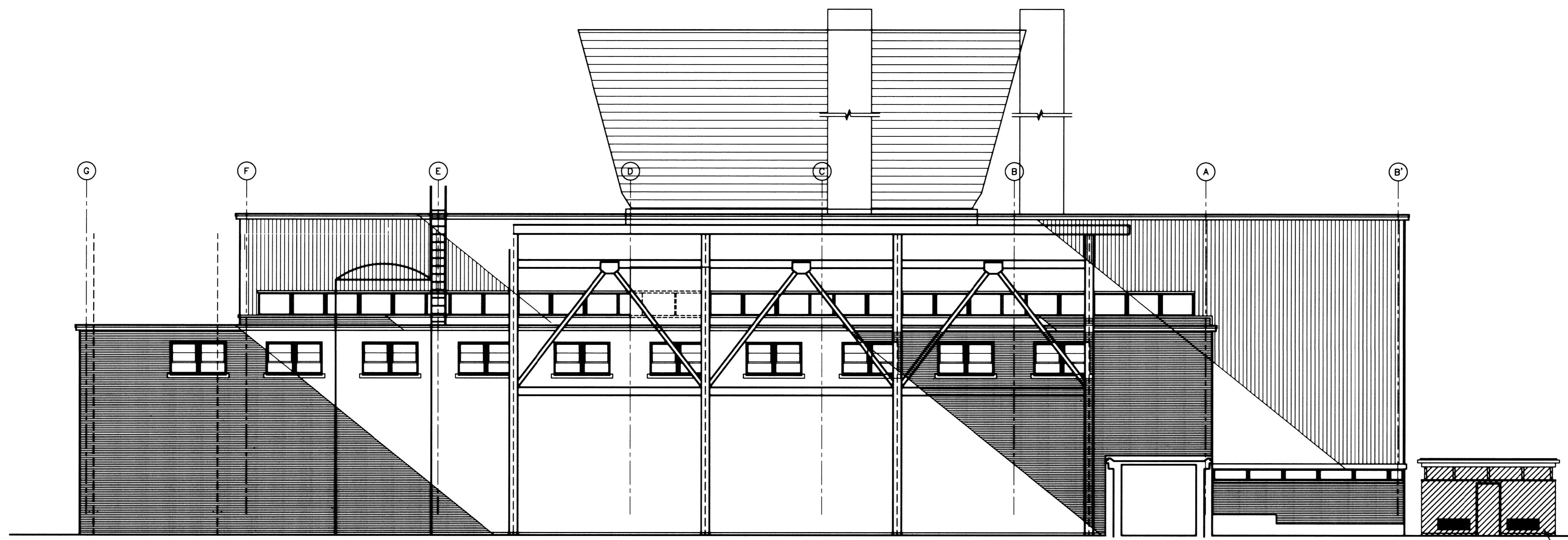
PERMITS TO MAKE BY
DESIGN DOCUMENTS OR
TO OBTAIN QUANTITIES
AND ALL RESPONSIBILITY SHALL BE
THE ARCHITECT'S. THE ARCHITECT
SHALL BE RESPONSIBLE FOR THE
ACCURACY OF THE INFORMATION
PROVIDED TO THE CONTRACTOR.
NO CONTRACTOR SHALL BE HELD
RESPONSIBLE FOR ANY ERRORS OR
OMISSIONS.

ROOF PLAN DEMOLITION
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE
DATE: DECEMBER, 2000
DRAWN BY: M.W.
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REVISED:
DATE 1.
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SHEET NUMBER
12.3
PROJECT NUMBER
99024.02

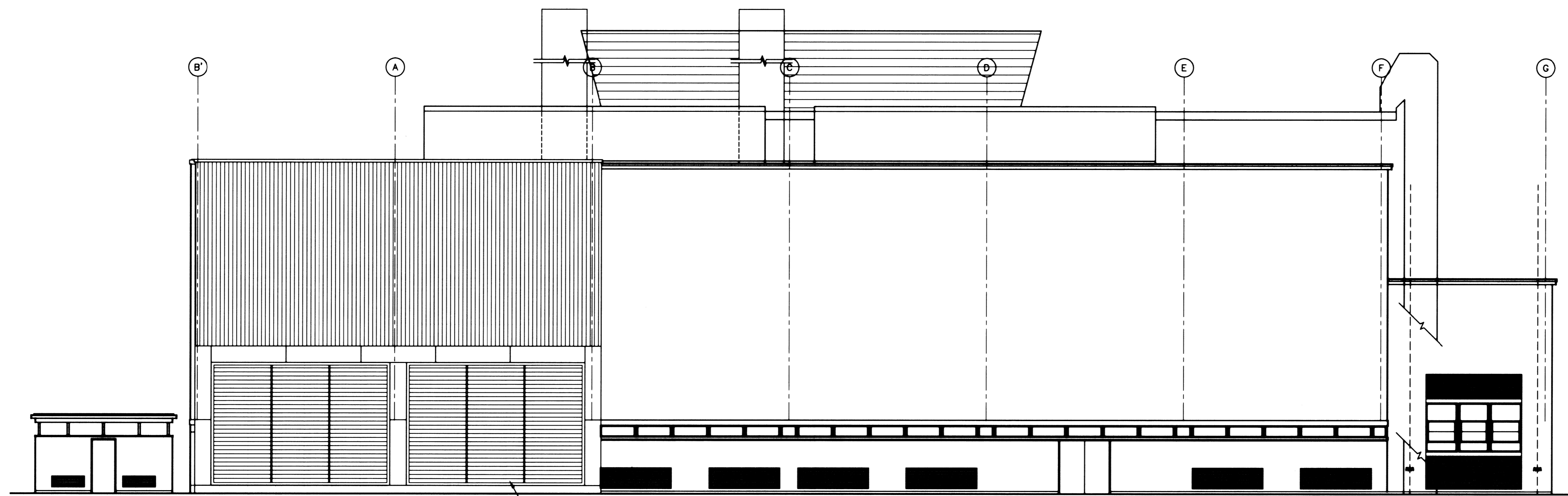
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DEMO NORTH ELEVATION

1/8" = 1'-0"

A
12.4



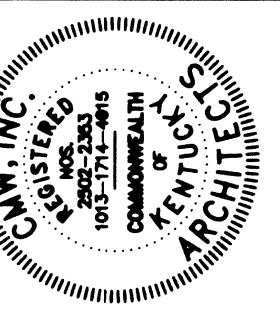
DEMO SOUTH ELEVATION

1/8" = 1'-0"

B
12.4

SHEET NOTES

- ① GAS HOUSE WALLS SHALL BE REMOVED WHERE INDICATED. GAS HOUSE CONCRETE ROOF SHALL BE SUPPORTED AS REQUIRED.
- ② MASONRY WALL REMOVAL AND REPLACEMENT OF MASONRY WALL SHALL BE BY CHILLER CONTRACTOR, N.I.C.
- ③ COOLING PLANT EXPANSION N.I.C.



FAILURE TO ADHERE TO THESE DOCUMENTS OR TO OBTAIN CLEARANCE FOR ALL REVISIONS SHALL BE AT THE USER'S RISK. THE ARCHITECT ASSUMES NO LIABILITY FOR ANY DAMAGE TO PERSONS OR PROPERTY ARISING FROM THE USE OF THESE DOCUMENTS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE ARCHITECT ASSUMES NO LIABILITY FOR ANY DAMAGE TO PERSONS OR PROPERTY ARISING FROM THE USE OF THESE DOCUMENTS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

DEMOLITION ELEVATIONS
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE
DATE: DECEMBER, 2000
DRAWN BY: M.W.
CHECKED BY: S.D.
REVISED:
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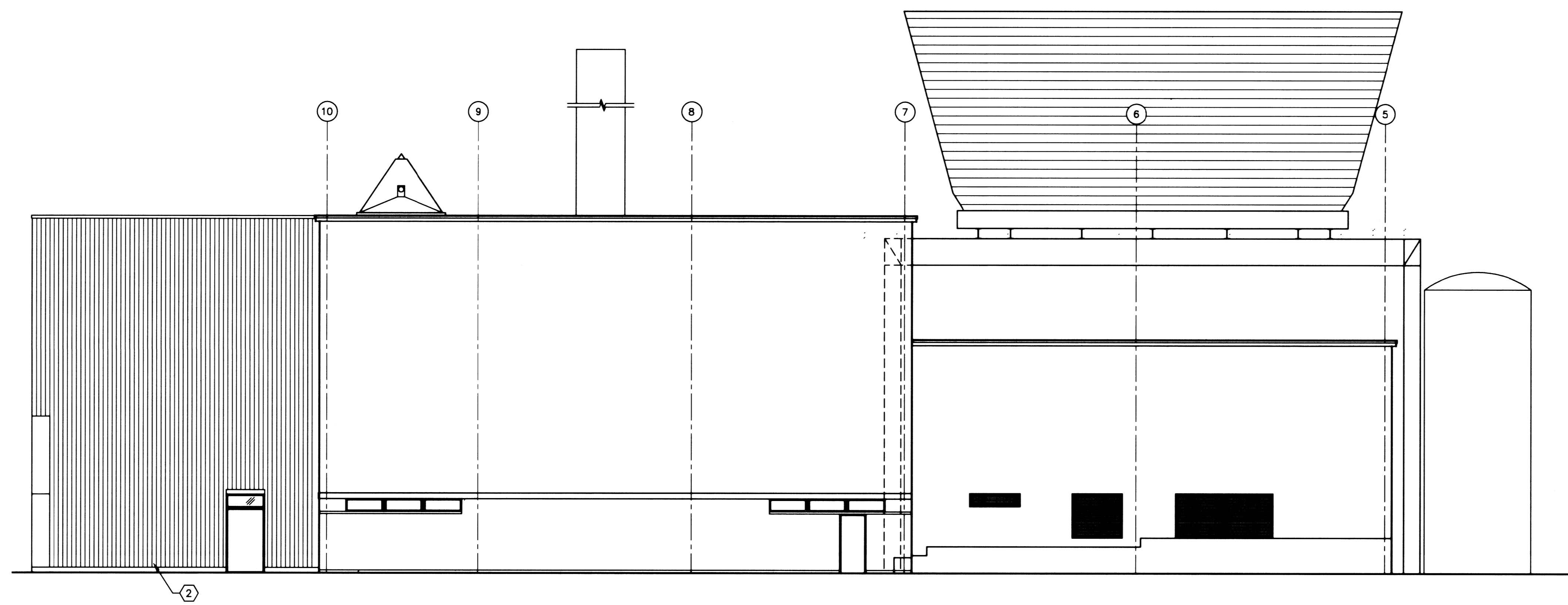
SHEET NUMBER
12.4
PROJECT NUMBER
99024.02

MAR 01 2004

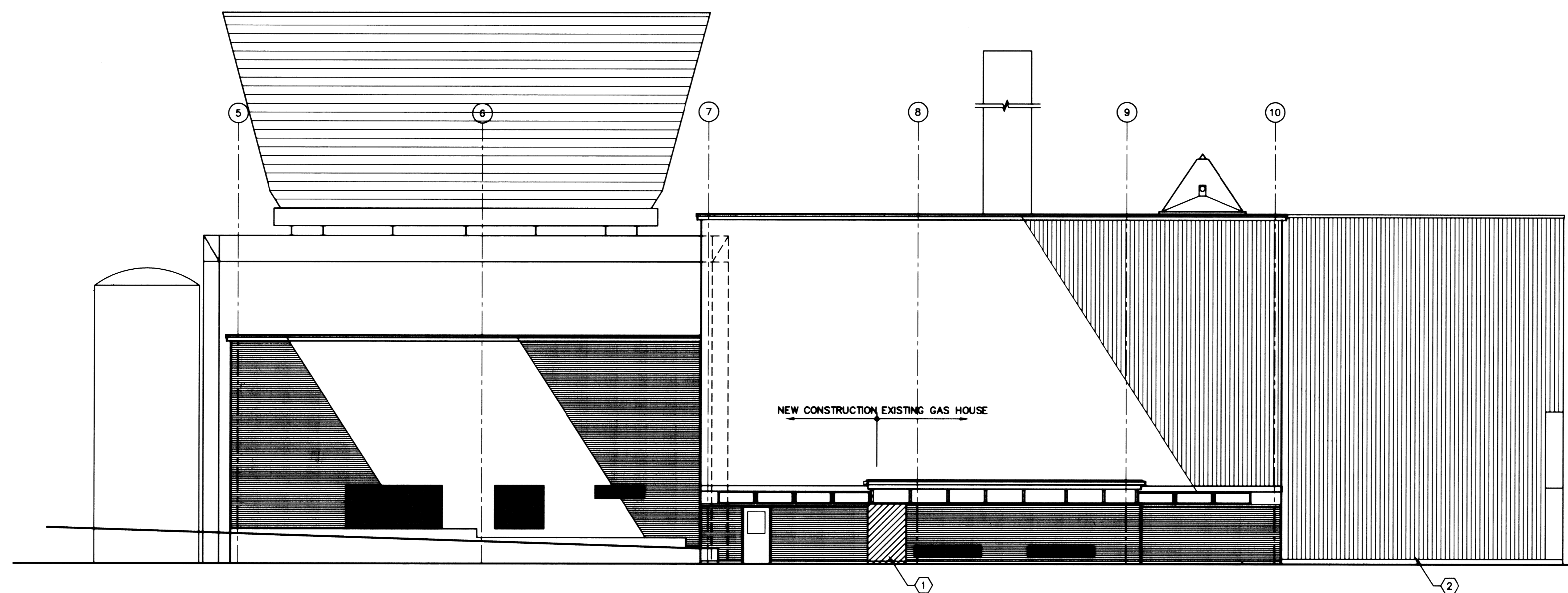
RECORD DRAWINGS DATE 11/20/2003

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CMW, INC.



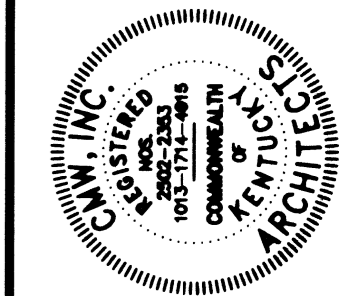
DEMO EAST ELEVATION
1/8" = 1'-0" A 12.5



DEMO WEST ELEVATION
1/8" = 1'-0" B 12.5

SHEET NOTES

- ① GAS HOUSE WALLS SHALL BE REMOVED WHERE INDICATED. GAS HOUSE CONCRETE ROOF SHALL BE SUPPORTED AS REQUIRED.
- ② COOLING PLANT EXPANSION N.I.C.



FAILURE TO MAKE BY DESIGN DOCUMENTS OR TO OBTAIN PERMITS FOR ALL WORK SHALL BE THE RESPONSIBILITY OF THE USER. THE ARCHITECT ASSUMES NO LIABILITY FOR ANY DAMAGE TO PERSONS OR PROPERTY CAUSED BY THE USER'S FAILURE TO OBTAIN NECESSARY PERMITS OR TO FOLLOW THE DESIGN DOCUMENTS. THE ARCHITECT'S LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED HEREON.

NOT FOR CONSTRUCTION

DEMOLITION ELEVATIONS
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE
DATE: DECEMBER, 2000
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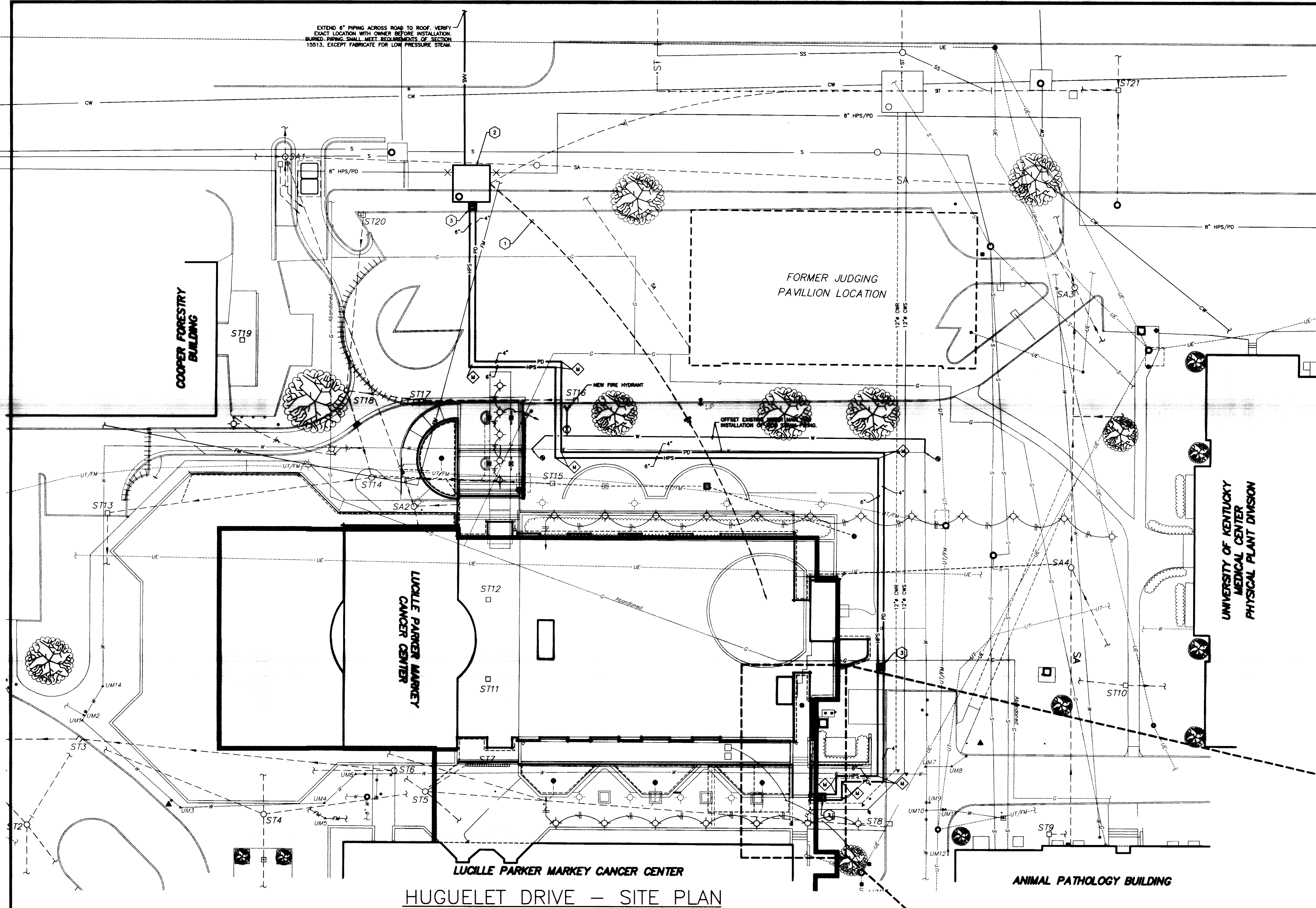
MAR 01 2004
CONTRACT NUMBER

SHEET NUMBER
12.5
PROJECT NUMBER
99024.02

RECORD DRAWINGS DATE 11/20/2003

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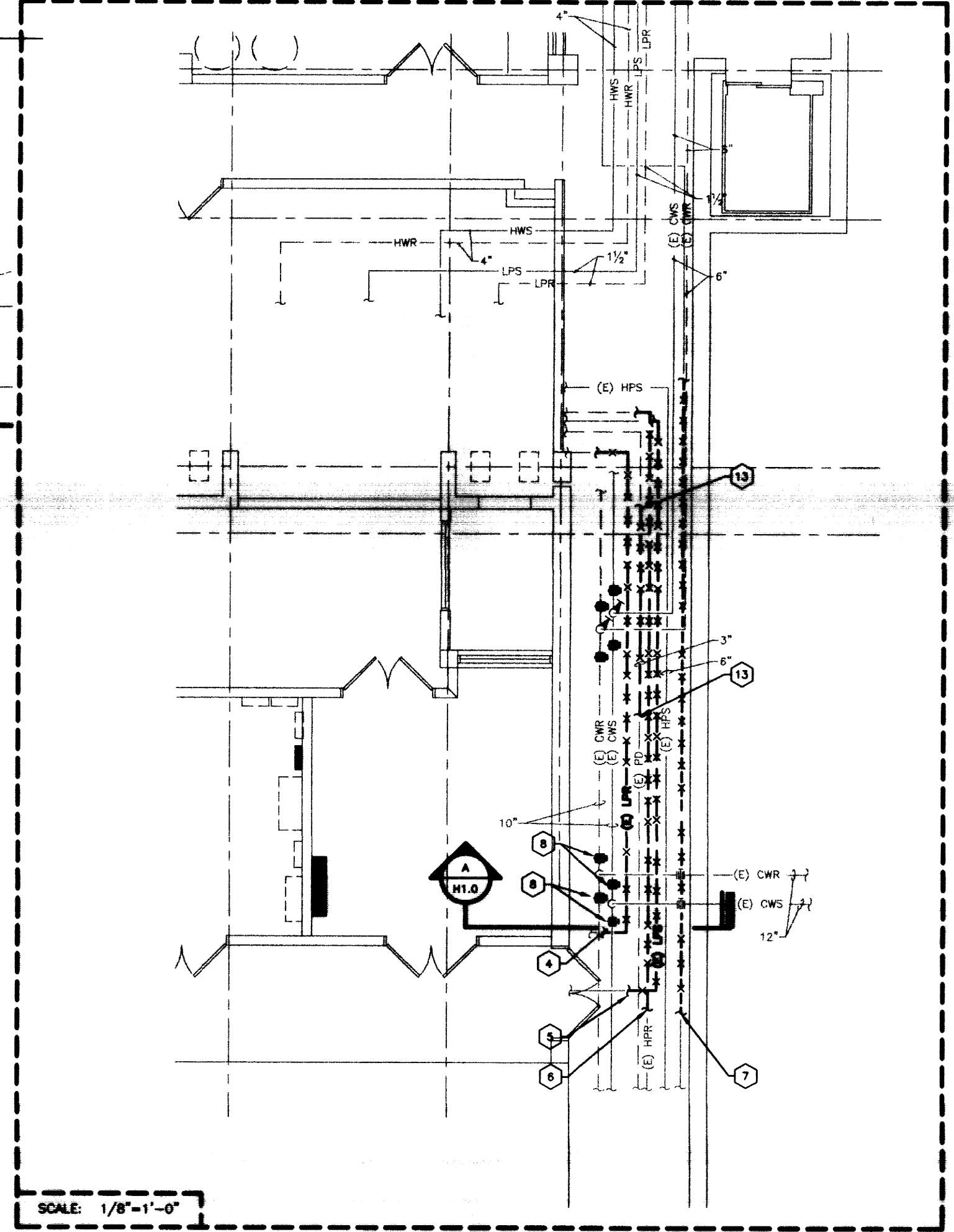
CMW, INC.



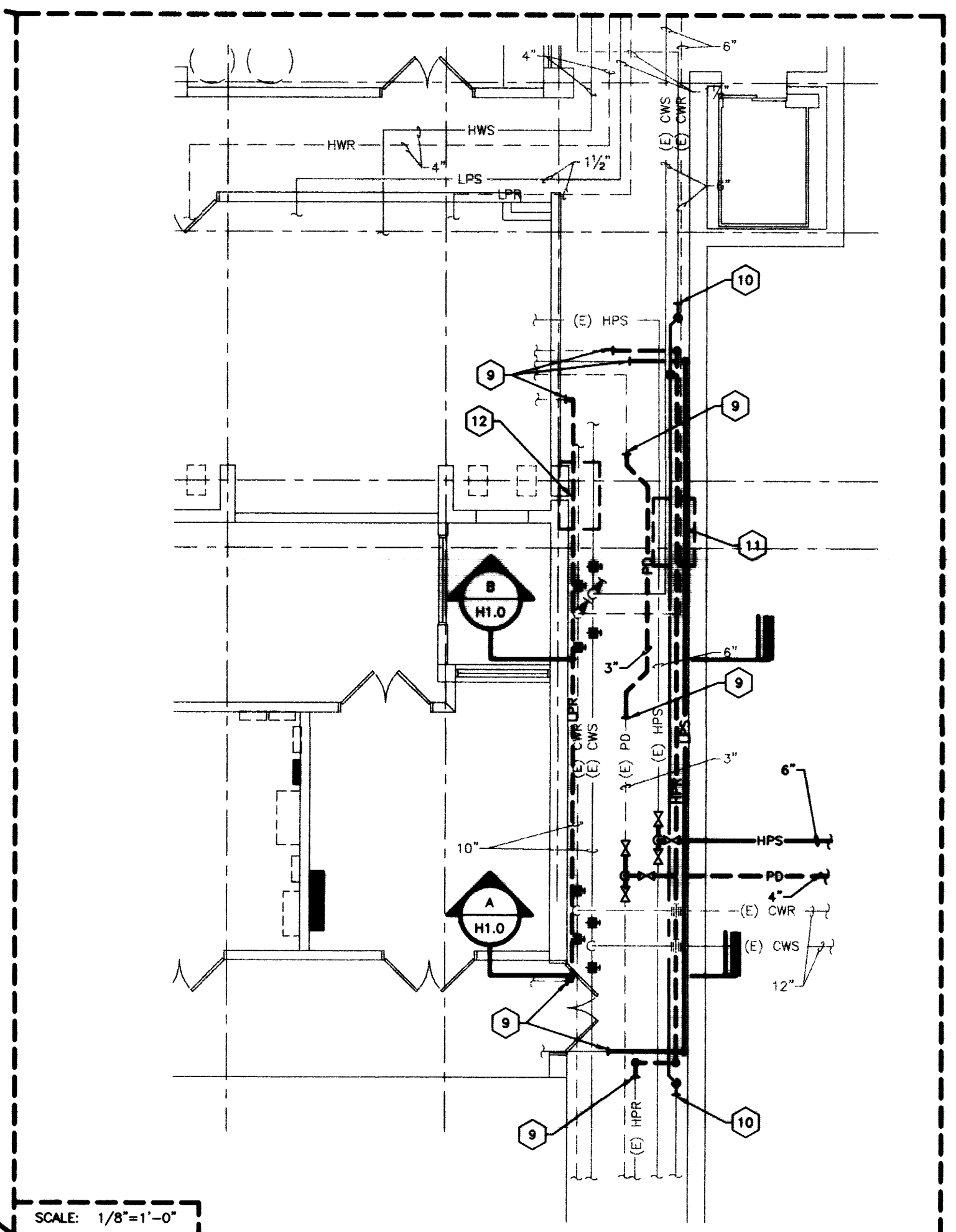
HUGUELET DRIVE - SITE PLAN

10 0 20 40 FEET

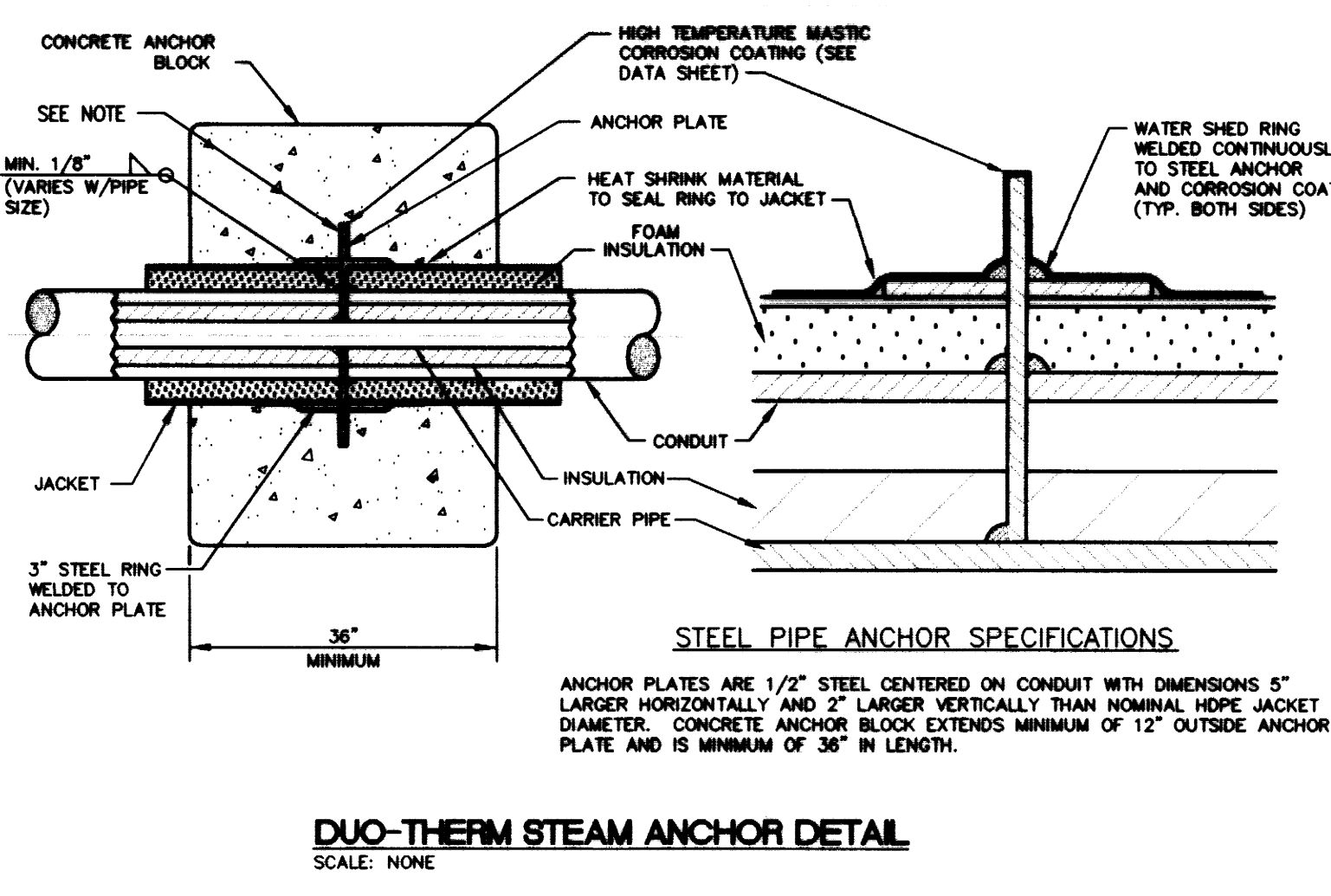
- CODED NOTES:**
- 1 POWER FEED FOR SUMP PUMP AND PIT EXHAUST FAN. EXTEND TO 30 AMP BREAKER IN WOMEN'S CANCER CENTER PANEL "L". SEE DETAIL FOR ROUGH-IN LOCATIONS.
 - 2 NEW HUGUELET DRIVE STEAM MANHOLE (SEE DETAILS).
 - 3 STEAM AND PUMP DISCHARGE PIPING ANCHOR. FINAL LOCATIONS BY PIPING MANUFACTURER.
 - 4 REROUTE EXISTING LOW PRESSURE RETURN PIPING. SEE NEW WORK PLAN FOR NEW LOCATION. FIELD VERIFY EXISTING PIPING SIZE.
 - 5 REROUTE EXISTING LOW PRESSURE STEAM PIPING. SEE NEW WORK PLAN FOR NEW LOCATION. FIELD VERIFY EXISTING PIPING SIZE.
 - 6 REROUTE EXISTING HIGH PRESSURE RETURN PIPING. SEE NEW WORK PLAN FOR NEW LOCATION. FIELD VERIFY EXISTING PIPING SIZE.
 - 7 REROUTE EXISTING EXHAUST DUCT. SEE NEW WORK PLAN FOR NEW LOCATION. FIELD VERIFY EXISTING PIPING SIZE.
 - 8 ROTATE EXISTING VALVE SO IT CAN BE EASILY ACCESSIBLE AT THE BOTTOM OF PIPING. TYPICAL.
 - 9 RECONNECT PIPING TO EXISTING AT THIS APPROXIMATE LOCATION.
 - 10 RECONNECT EXHAUST DUCT TO EXISTING AT THIS APPROXIMATE LOCATION. RUN EXHAUST DUCT HIGHER THAN LOW PRESSURE STEAM AND HIGH PRESSURE RETURN. SEE "NEW" SECTION.
 - 11 CONTRACTOR SHALL FIELD VERIFY EXISTING PIPING WITH NEW ROUTE FOR EXHAUST DUCT. LOW PRESSURE STEAM AND HIGH PRESSURE RETURN AT THIS APPROXIMATE LOCATION. OFFSET NEW DUCT, AND/OR, NEW PIPING AS NEEDED.
 - 12 LOW PRESSURE RETURN PIPING RUN BENEATH CWR PIPING. OFFSET NEW PIPING AS REQUIRED. CONTRACTOR SHALL FIELD VERIFY EXISTING PIPING AT THIS APPROXIMATE LOCATION. OFFSET NEW PIPING AS NEEDED.
 - 13 OFFSET AND REROUTE EXISTING PUMP DISCHARGE PIPING AT THIS APPROXIMATE LOCATION. SEE NEW WORK PLAN FOR NEW LOCATION. FIELD VERIFY EXISTING PIPING SIZE.



"MRISC BASEMENT DEMOLITION PLAN"

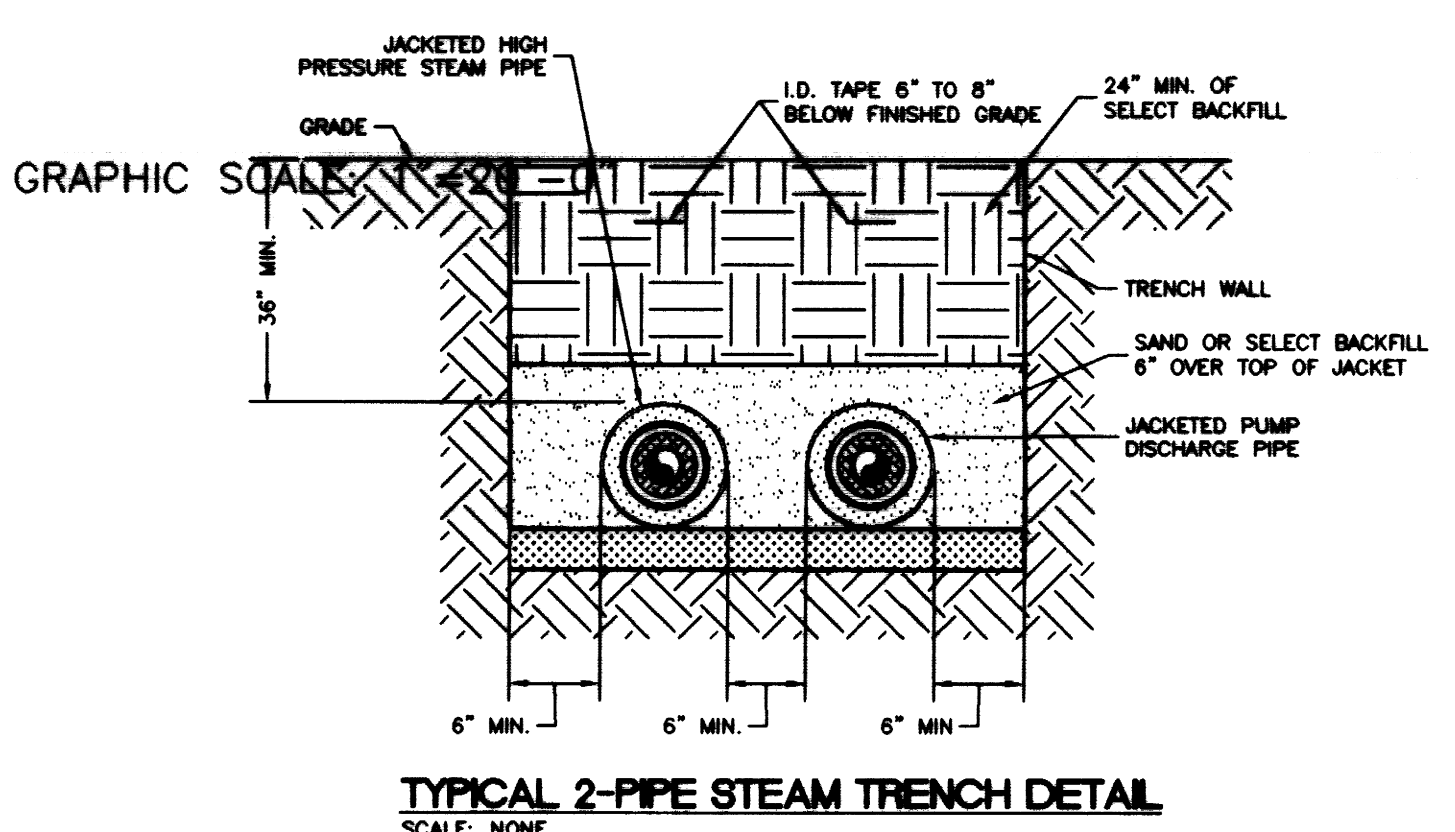


"MRISC BASEMENT NEW WORK PLAN"



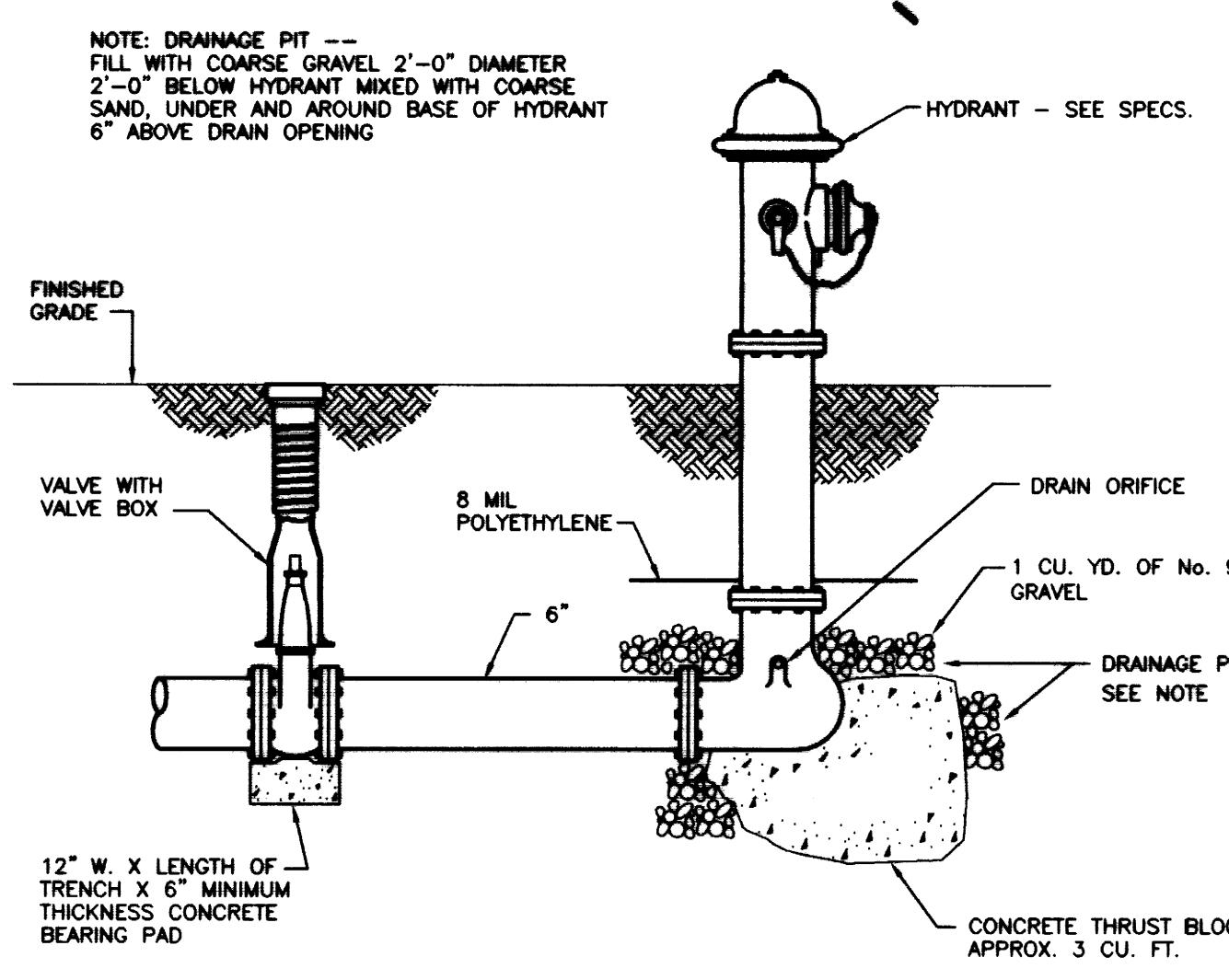
DUO-THERM STEAM ANCHOR DETAIL

SCALE: NONE



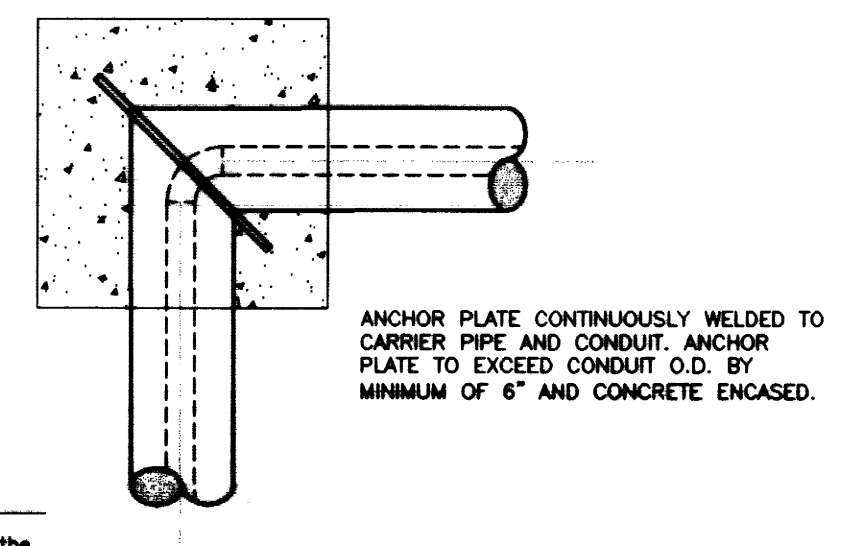
TYPICAL 2-PIPE STEAM TRENCH DETAIL

SCALE: NONE



FIRE HYDRANT DETAIL

NO SCALE

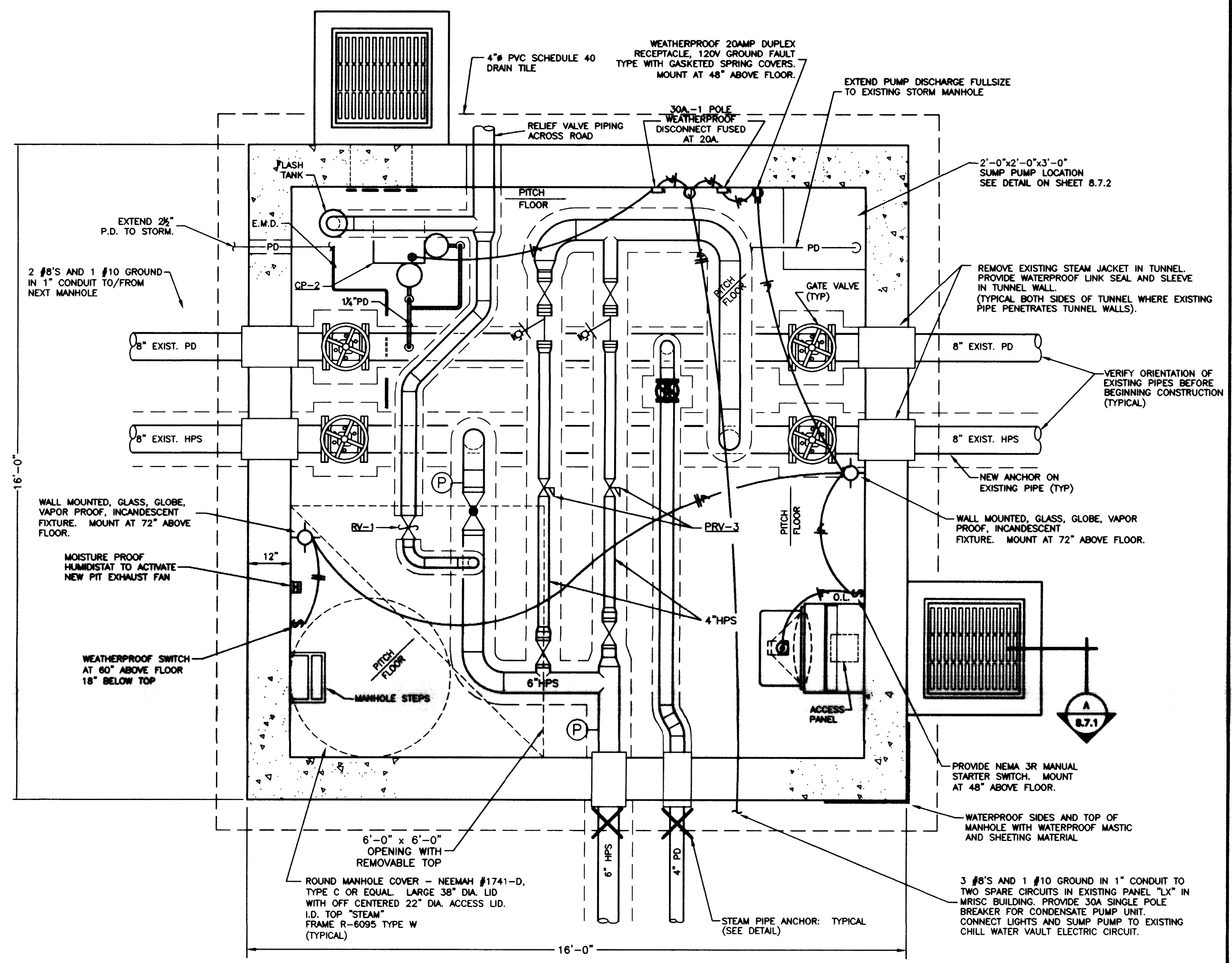


ANCHORED ELBOW DETAIL

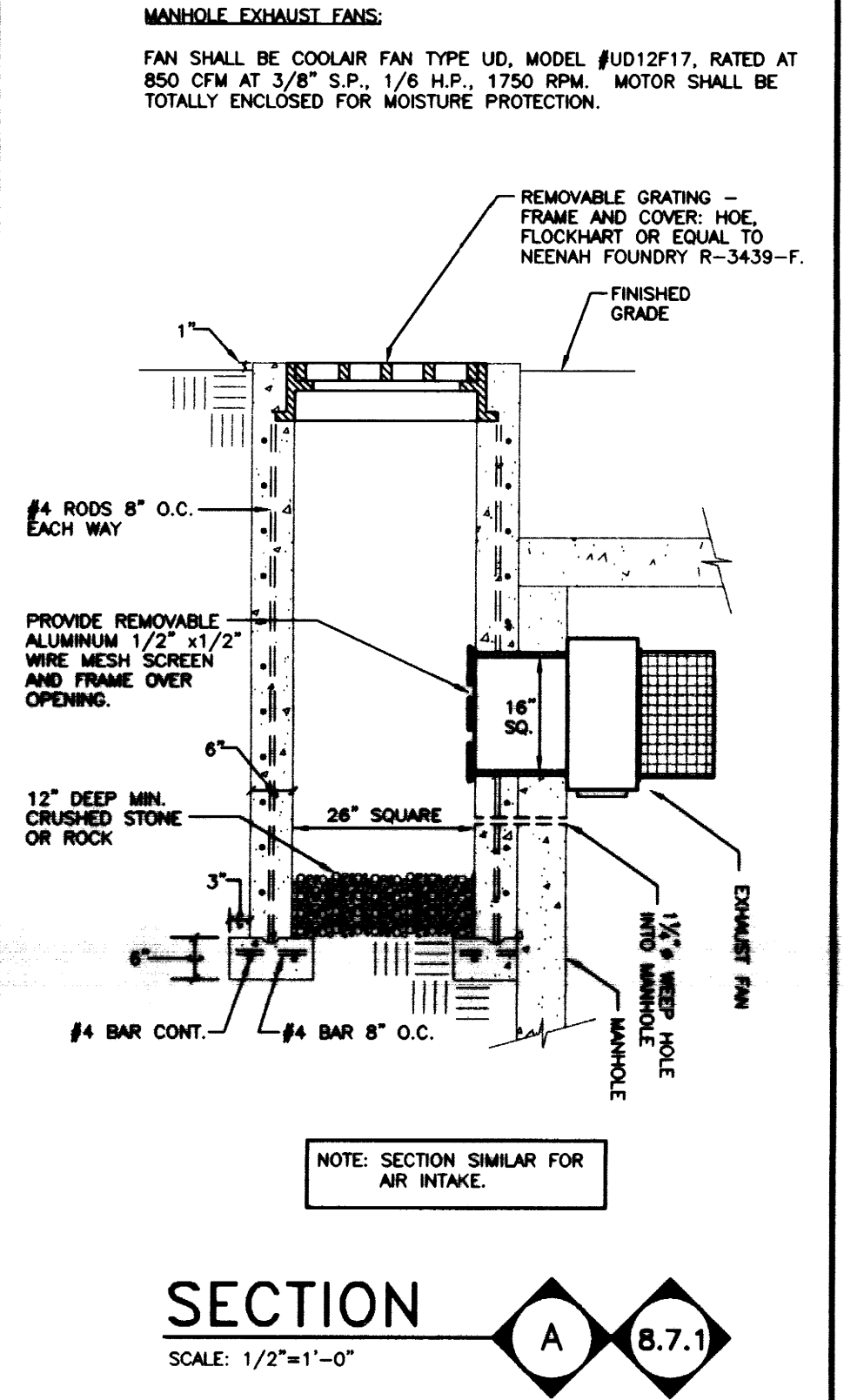
SCALE: NONE

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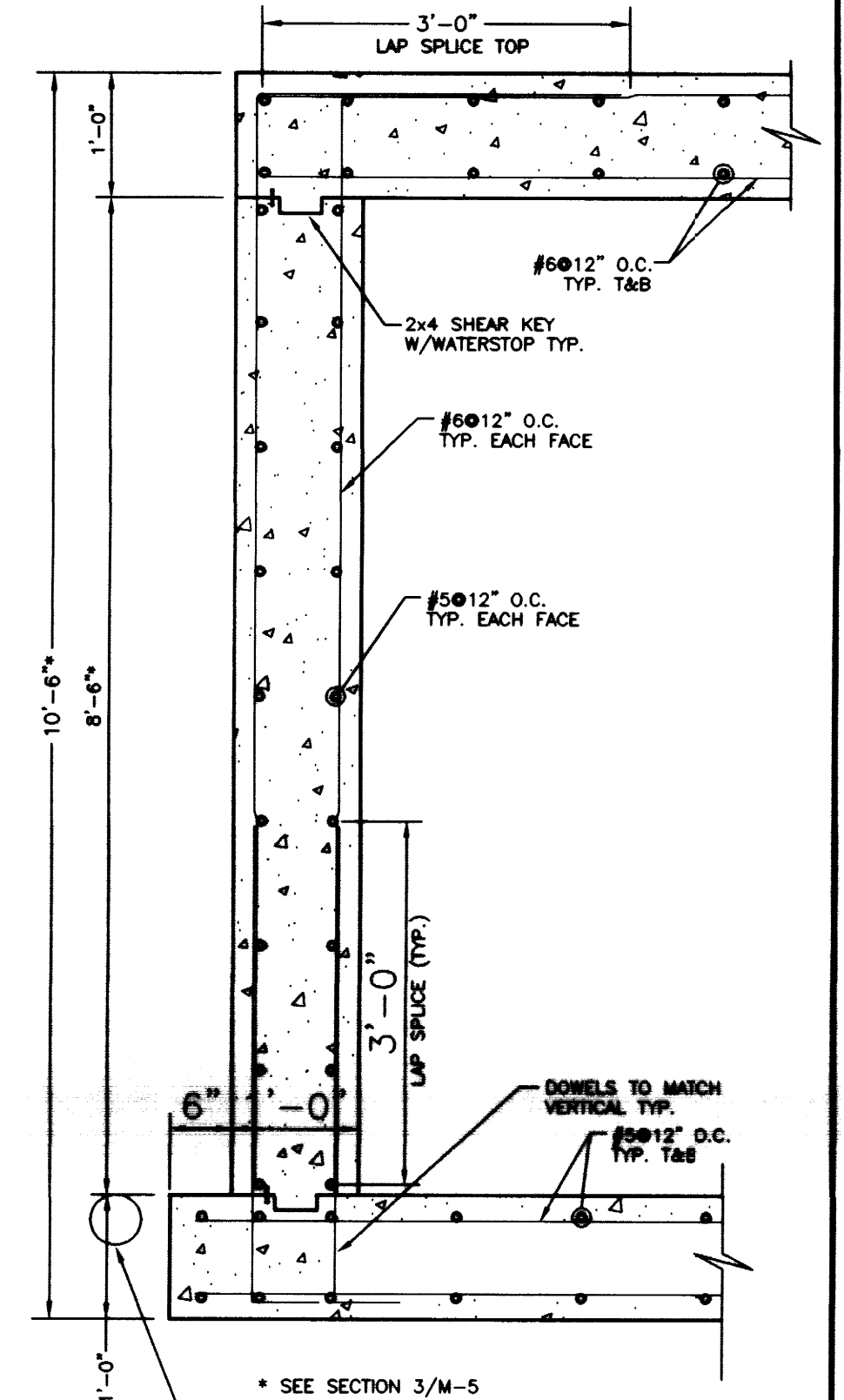
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STAGGS & FISHER CONSULTING ENGINEERS, INC.



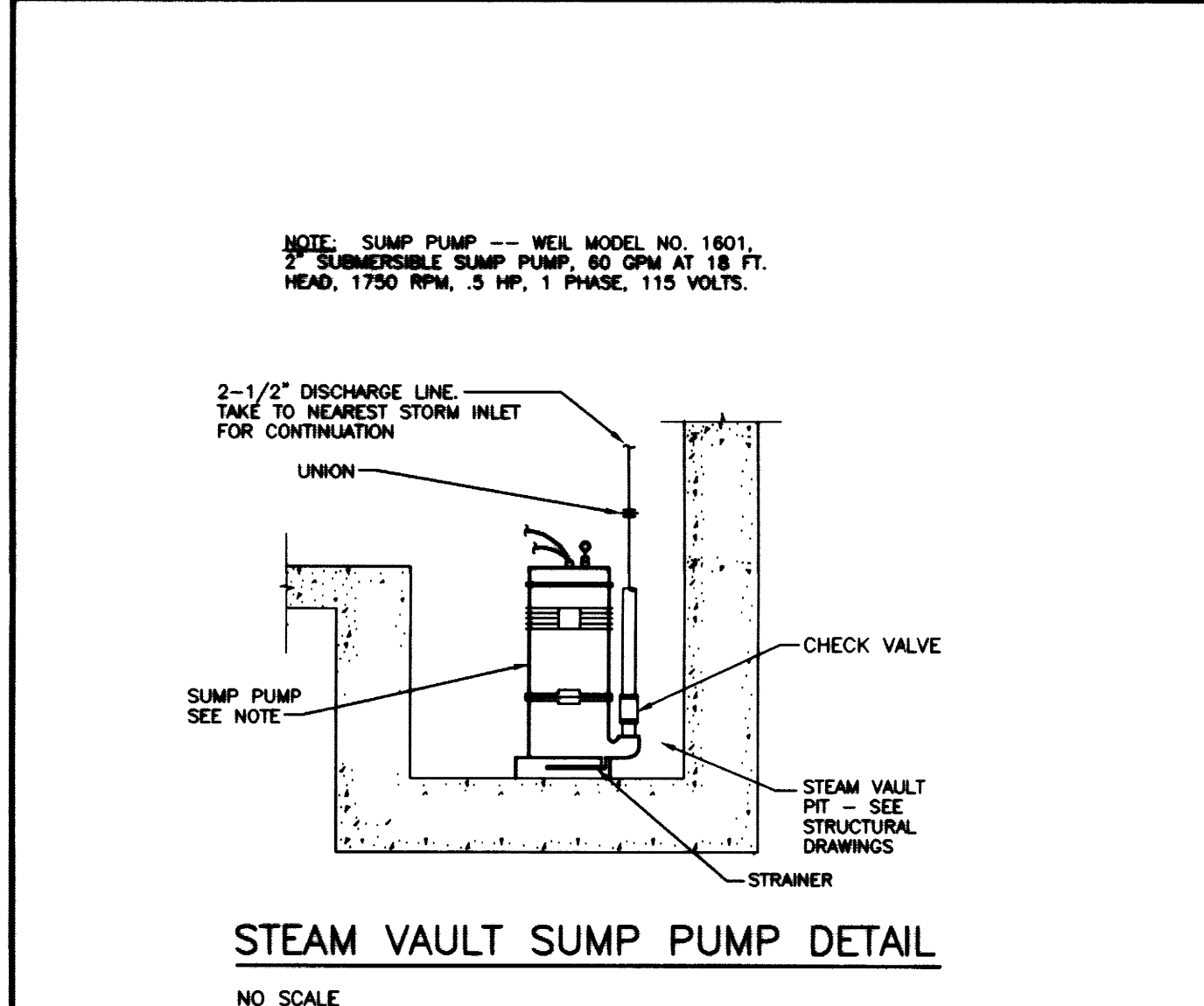
STEAM MANHOLE
SCALE: 1/2" = 1'-0"



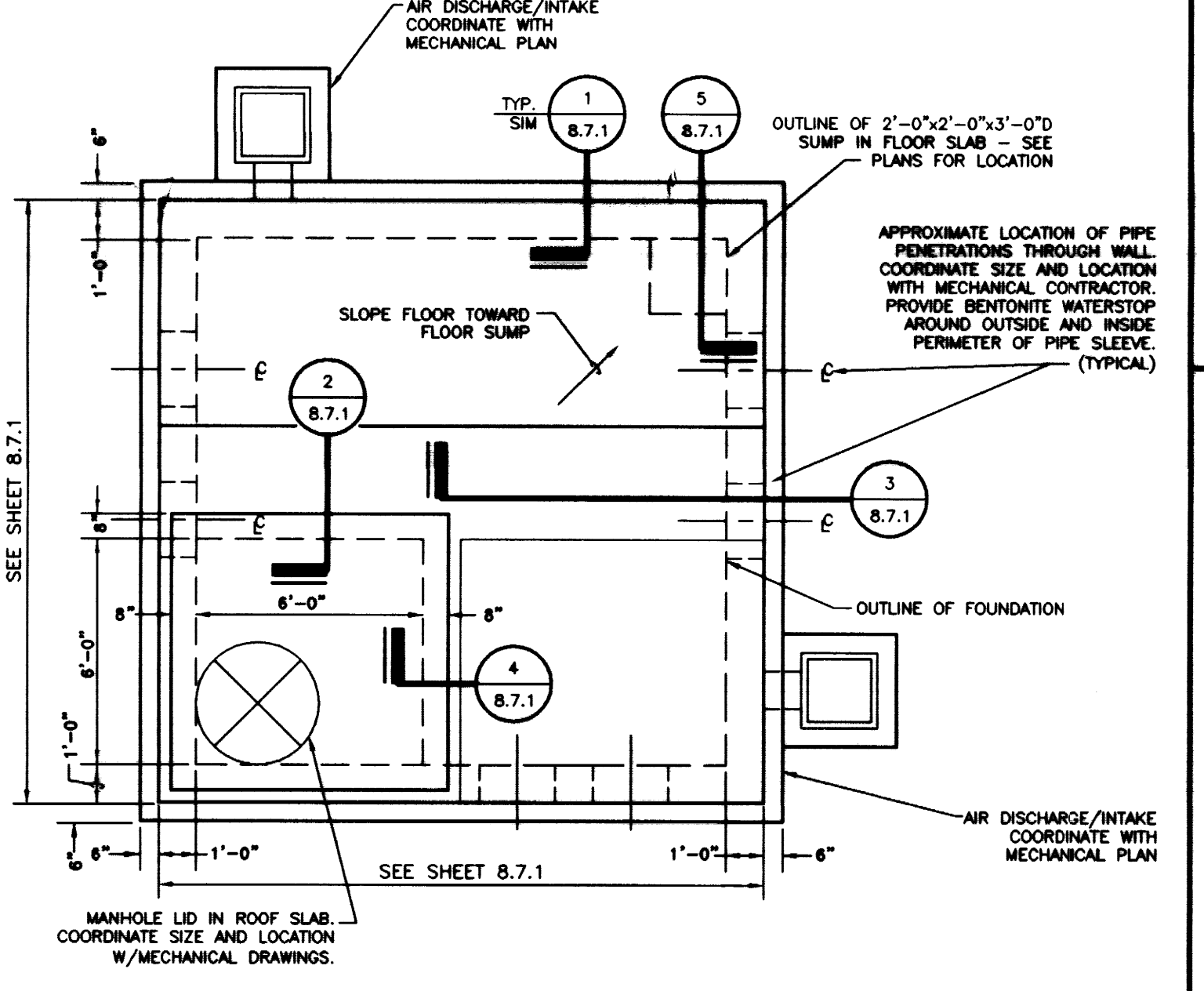
SECTION A
SCALE: 1/2" = 1'-0"



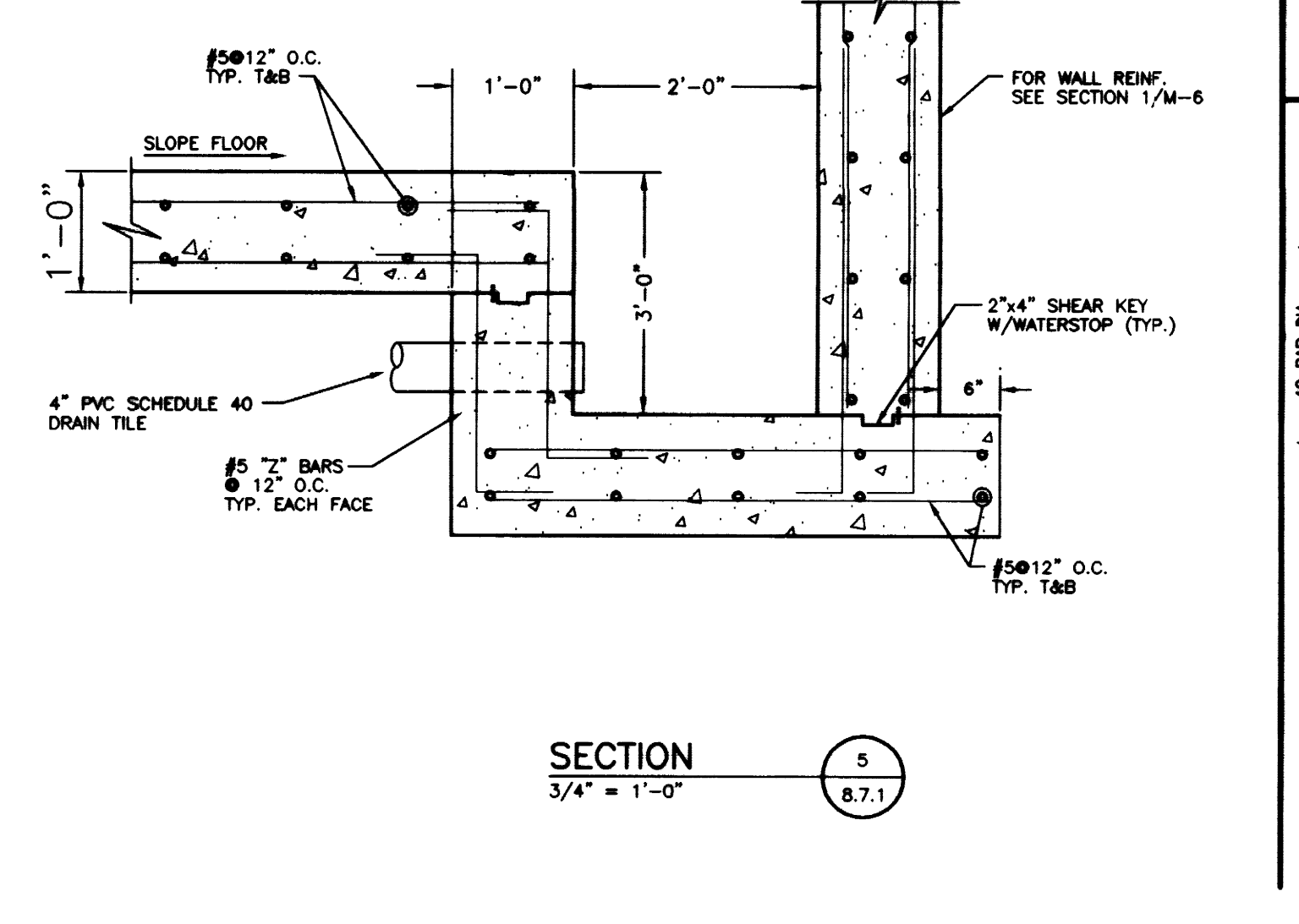
SECTION 1
SCALE: 3/4" = 1'-0"



STEAM VAULT SUMP PUMP DETAIL
NO SCALE

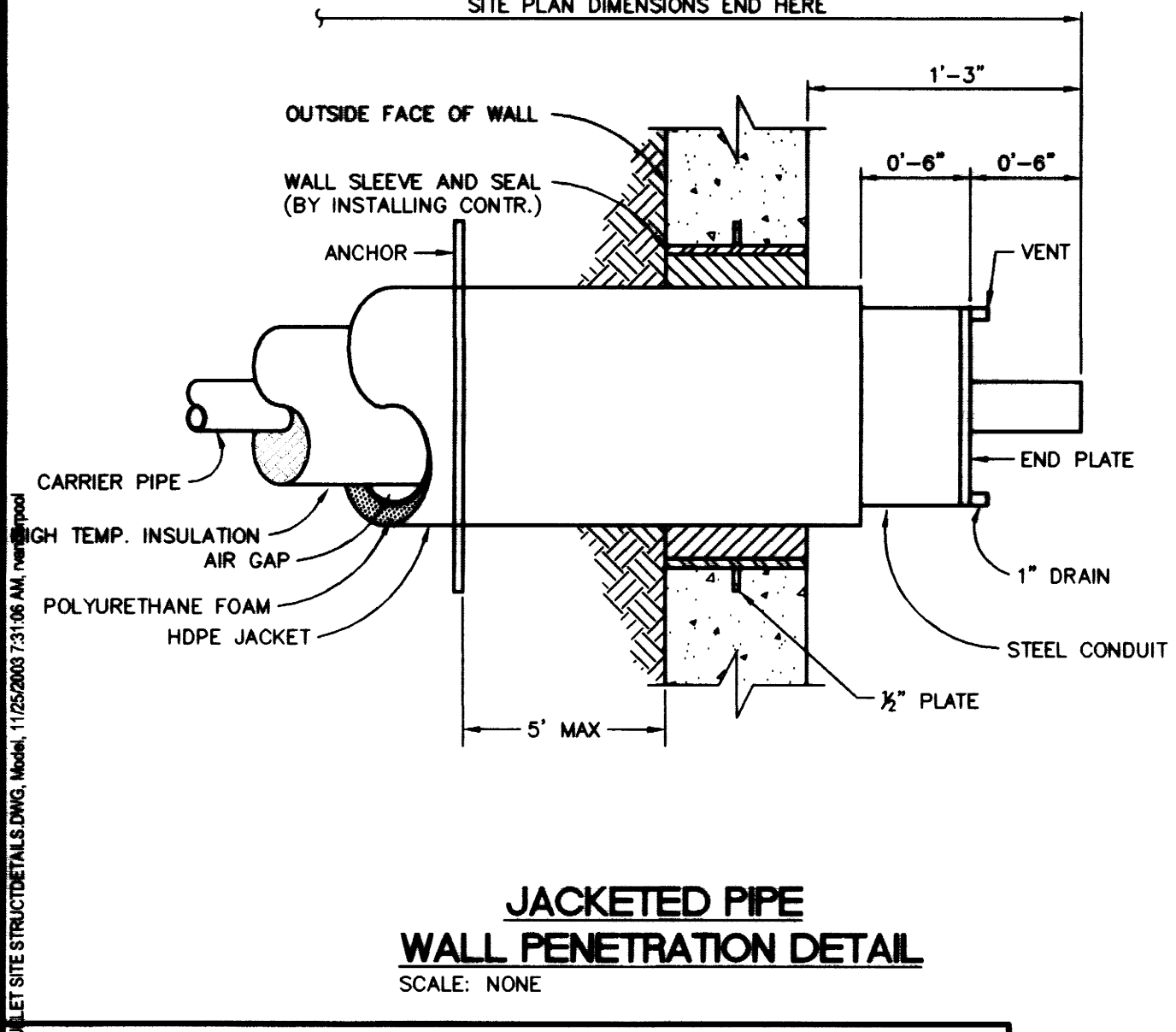


PLAN - TYPICAL MANHOLE
SCALE: 1/4" = 1'-0"

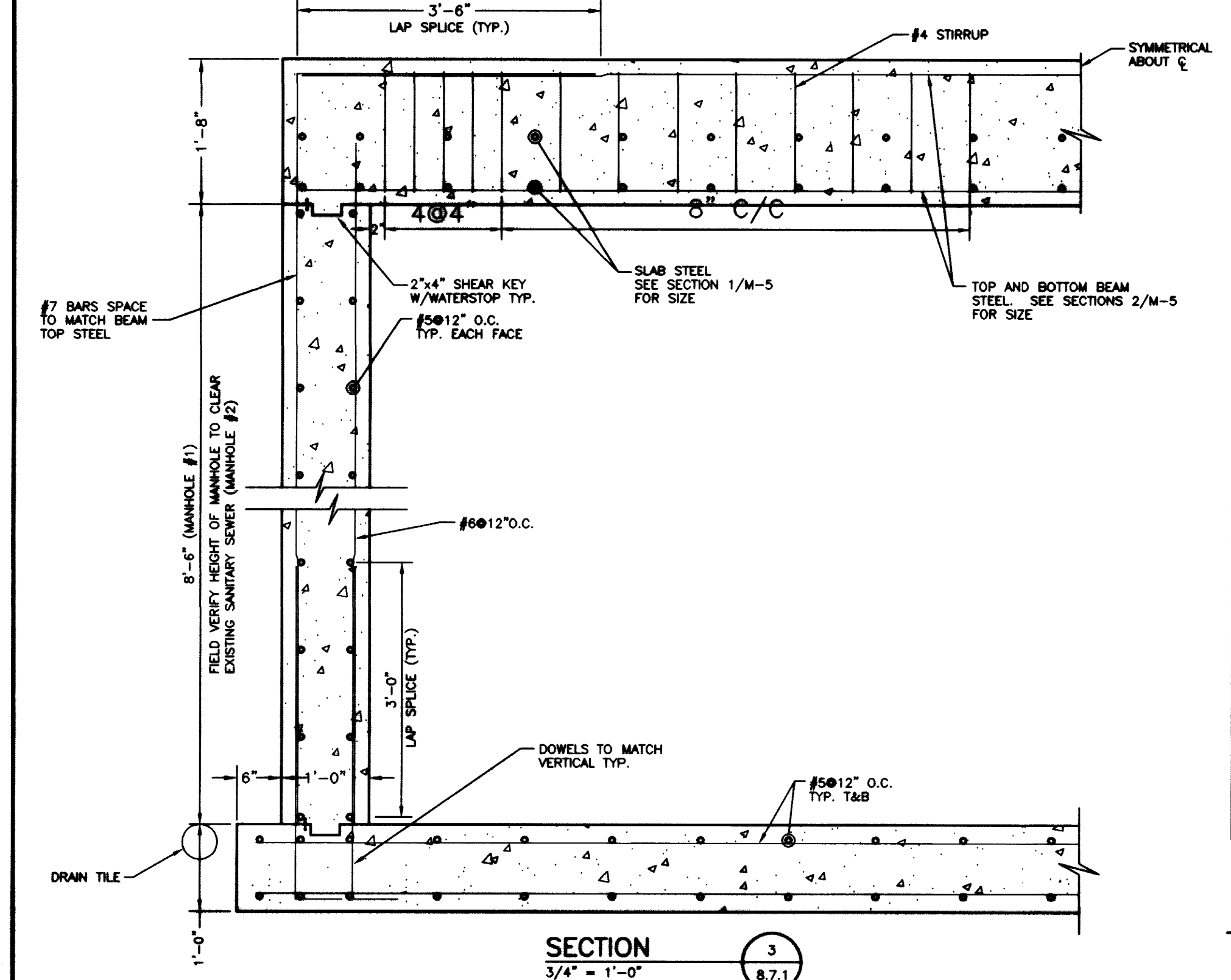


SECTION 5
SCALE: 3/4" = 1'-0"

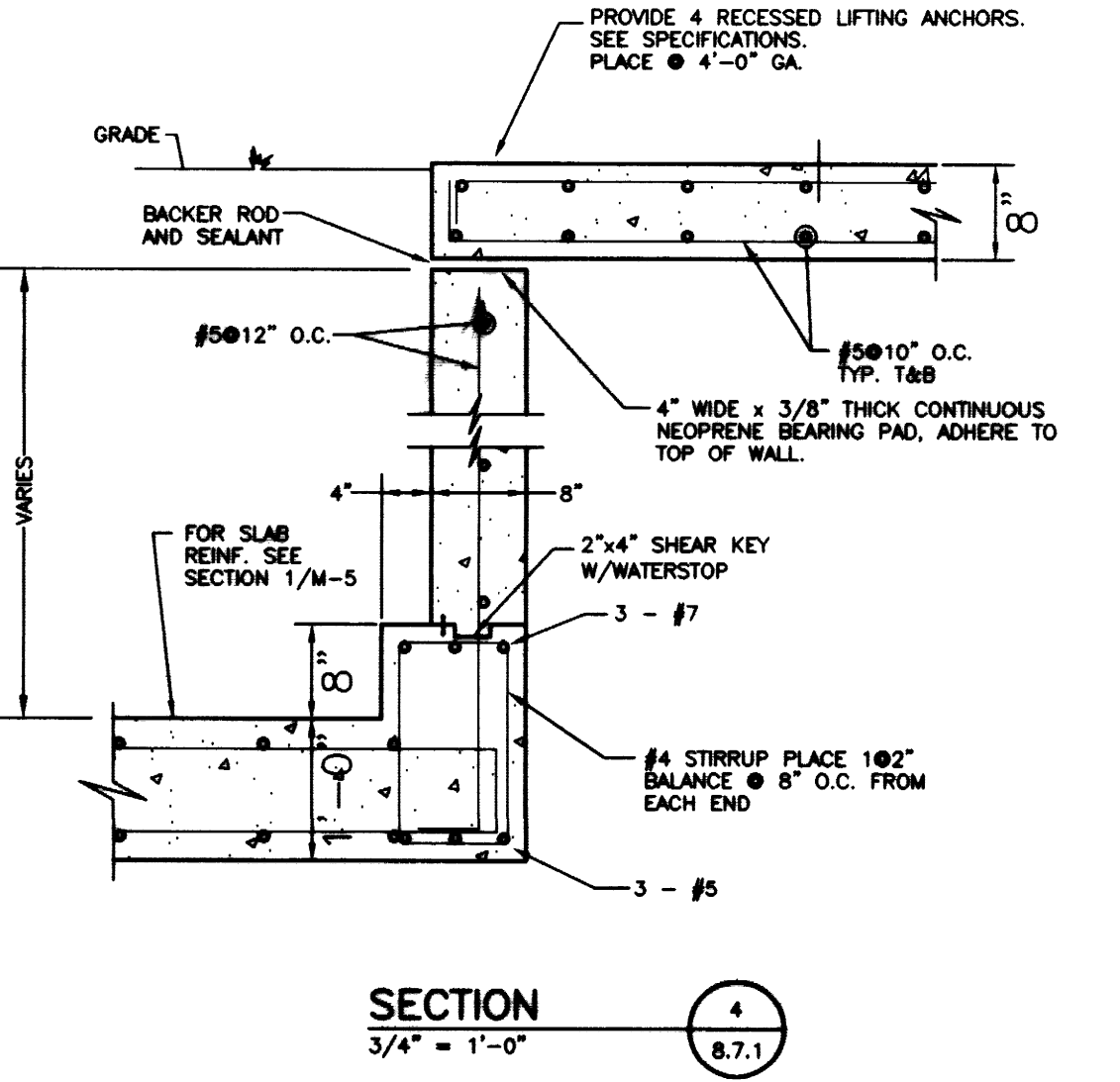
PART I
A. NOTES TO THE CONTRACTOR
1. DRAWINGS REPRESENT THE DESIRED RESULT OF CONSTRUCTION. THE METHODS OF CONSTRUCTION AND THE RISKS INVOLVED DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN THE BUILDING'S STRUCTURAL INTEGRITY AT ALL STAGES OF CONSTRUCTION.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS DURING CONSTRUCTION AND REPORT TO THE ARCHITECT/ENGINEER DURING CONSTRUCTION AND TO THE ARCHITECT/ENGINEER PRIOR TO COMMENCING ANY PERTINENT WORK.
3. CONTRACTOR'S PROPOSED SUBSTITUTIONS SHALL BE APPROVED BY THE ARCHITECT/ENGINEER PRIOR TO COMMENCING ANY PERTINENT WORK.
B. DESIGN CRITERIA
THIS STRUCTURE HAS BEEN DESIGNED ACCORDING TO THE KENTUCKY BUILDING CODE AND FOR THE SPECIFIC LOADS WHICH ARE LISTED BELOW.
1. ROAD SURCHARGE = 200 PSF
2. PIPE HANGERS = 50 PSF
3. AASHTO H20-44 DESIGN TRUCK LOAD
C. FOUNDATION, FILLING, AND EXCAVATION (SOIL REPORT)
THE ACTUAL SOIL (ROCK) BEARING CAPACITIES AND SOIL COMPACTION REQUIREMENTS SHALL BE VERIFIED PRIOR TO COMMENCING WORK.
1. FOOTINGS SHALL BE PLACED ON A LEVEL SURFACE.
2. DO NOT PLACE BACKFILL AGAINST MANHOLE OR TUNNEL WALLS UNTIL ROOF STRUCTURE IS IN PLACE.
D. CAST IN PLACE CONCRETE
1. PRIOR TO FABRICATION, SUBMIT SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT OF CONCRETE REINFORCEMENT. COMPLY WITH AC308.1 MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES SHOWING BAR SCHEDULES, STIRRUP SPACING, DIAGRAMS OF BENT BARS, ARRANGEMENT OF CONCRETE REINFORCEMENT. INCLUDE SPECIAL REINFORCEMENT REQUIRED AND OPENINGS THROUGH CONCRETE STRUCTURES.
2. SUBMIT LABORATORY TEST REPORTS FOR CONCRETE MATERIALS AND MIX DESIGN TEST AS SPECIFIED BELOW.
3. ALL CONCRETE SHALL DEVELOP 4000 PSI COMPRESSIVE STRENGTH IN 28 DAYS.
4. REINFORCING BARS SHALL BE DEFORMED AND SHALL CONFORM TO ASTM A615, $F_y = 60$ KSI.
5. SPLICES IN CONTINUOUS VERTICAL OR HORIZONTAL REINFORCING BARS SHALL BE PER LATEST EDITION OF ACI 318 (40) BAR DIAMETER LAP SPLICE WHICH EVER IS GREATER UNLESS NOTED AND SHALL BE EITHER CONTINUOUS OR SPACED WITH DONNELLS THROUGH CONCRETE STRUCTURES.
6. CLEARANCES BETWEEN REINFORCING BARS AND CONCRETE SURFACES SHALL BE AS FOLLOWS:
a) CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3
b) CONCRETE EXPOSED TO EARTH OR WEATHER: #6 THROUGH #18 BARS 1-1/2, #5 BAR AND SMALLER 1-1/2
c) CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS #11 AND SMALLER 3/4, BEAMS: PRIMARY REINFORCEMENT, STIRRUPS 1-1/2
7. ALL HOOKED BARS SHALL BE STANDARD HOOKS, UNO.
PART II
ABBREVIATIONS
W/ WITH
TAB TOP AND BOTTOM
T.C.E. TOP OF CONCRETE ELEVATION
GA. GAUGE
R.O.C. REINFORCING O.C. ON CENTER
GALV. GALVANIZED
PART III
MATERIAL SPECIFICATIONS
1. RECESSED LIFTING ANCHORS - P-52 SL 4 TON X 3 3/4" (HOT DIPPED GALV) COMPLETE W/ GALV. COMPLETE W/ GALV.
A. P-61 SL SETTING PLATE (HOT DIPPED GALV.)
B. P-62 SL COUNTER SLINK SCREW (HOT DIPPED GALV.)
C. P-66 SL TAPPED PLATE (HOT DIPPED GALV.)
D. P-56 RECESS PLUG MANUFACTURED BY DAYTON SUPERIOR OR EQUIVALENT.
2. ONE-PART NONSAG URETHANE SEALANT FOR USE IN: USE ONE OF THE FOLLOWING OR EQUIVALENT PRODUCTS:
"DYWIDAG" 1", PECORA CORP.
"SIFALOX-1A", Sika Corp.
"SIFALOX-15M", Sika Corp.
"SOLASTIC" NO. 11, CONSTRUCTION BUILDING PRODUCTS DIV., REXBOND CHEMICAL PRODUCTS INC.
"TDMATCH" TDMCO INC.
3. PLASTIC FOAM JOINT FILLERS: PREFORMED, COMPRESSIBLE, RESILIENT, NONWAXING, NON-EXTRUDING STRIPS OF FLEXIBLE, NON-GASSING PLASTIC FOAM OF MATERIAL INDICATED BELOW, NONABSORBENT TO WATER AND GAS, AND OF SIZE, SHAPE AND DENSITY TO CONTROL SEALANT DEPTH AND OTHERWISE CONTRIBUTE TO PRODUCING OPTIMAL SEALANT PERFORMANCE.
A. EITHER OPEN CELL POLYURETHANE FOAM OR CLOSED-CELL POLYETHYLENE FOAM, UNLESS OTHERWISE INDICATED, SUBJECT TO APPROVAL OF SEALANT MANUFACTURER, FOR COLD-APPLIED SEALANTS ONLY.
4. WATERSTOPS: PROVIDE FLAT, DUMBBELL TYPE OR CENTER BULB TYPE WATERSTOPS AT CONSTRUCTION JOINTS AND OTHER JOINTS AS SHOWN, SIZE TO SUIT JOINTS.
A. POLYVINYL CHLORIDE (PVC) WATERSTOPS: CORPS OF ENGINEERS CRD-572.
B. BENTONITE WATERSTOP: POLY-L-RX BY THE AMERICAN COLLOID CO. ARLINGTON HEIGHTS ILL. 60004
PART IV
CONTRACT SPECIFICATIONS
1.0 SUBMITTALS
A. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA WITH APPLICATION AND INSTALLATION INSTRUCTIONS, INCLUDING REINFORCEMENT, ADMIXTURES, PATCHING COMPOUNDS, CURING COMPOUNDS AND ANY OTHERS THAT MAY BE REQUESTED BY THE ENGINEER.
B. SHOP DRAWINGS: GENERAL: SUBMIT TWO (2) SETS OF PRINTS AND ONE (1) SET TO ENGINEER FOR HIS REVIEW. ALL DRAWINGS SHALL BE A COMPLETE SET OF ORIGINAL DRAWINGS CREATED BY THE SUPPLIER.
C. MIX DESIGN: SUBMIT MIX DESIGN 40 DAYS PRIOR TO USE. DESIGN SUBMITTAL SHALL INCLUDE DESIGN TYPE, AGGREGATE GRADATION, COMPRESSIVE STRENGTH AT 7 DAYS AND 28 DAYS, SLUMP, AIR CONTENT, AND ADMIXTURES.
2.0 CONCRETE - QUALITY
A. READY-MIXED CONCRETE CONFORMING TO THESE SPECIFICATIONS AND CONFORMING TO ASTM DESIGNATION C-84, STRENGTH METHOD SHALL BE USED.
B. TYPE CONCRETE:
1. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS - AS INDICATED ON DRAWINGS.
2. SLUMP - 3 TO 5 INCHES.
3. AIR CONTENT - 4%
C. USE OF ADMIXTURES IS PROHIBITED EXCEPT WHERE WRITTEN CONSENT IS GIVEN BY ENGINEER.
3.0 COLD WEATHER REQUIREMENTS
A. PROCEDURES SHALL BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE "RECOMMENDED PRACTICE FOR WINTER CONCRETING" (ACI-308).
4.0 QUALITY CONTROL TESTING
A. ENGAGE A TESTING LABORATORY ACCEPTABLE TO ENGINEER AT CONTRACTOR'S EXPENSE TO PERFORM THE FOLLOWING SERVICES:
1) QUALIFICATION OF PROPOSED MATERIALS AND THE ESTABLISHMENT OF MIX DESIGNS IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" ACI 318, LATEST EDITION.
B. SAMPLING FRESH CONCRETE: ASTM C 172 EXCEPT MODIFIED FOR SLUMP TO COMPLY WITH ASTM C94. SAMPLING AND TESTING FOR QUALITY CONTROL DURING PLACEMENT OF CONCRETE SHALL INCLUDE THE FOLLOWING: (AS DIRECTED BY ENGINEER)
1) SLUMP: ASTM C 143; ONE TEST FOR EACH SET OF COMPRESSIVE STRENGTH TEST SPECIMENS.
2) AIR CONTENT: ASTM C 173; VOLUMETRIC METHOD FOR LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE; ASTM C 231 PRESSURE FOR NORMAL WEIGHT CONCRETE; ONE FOR EACH SET OF COMPRESSIVE STRENGTH TEST SPECIMENS.
3) CONCRETE TEMPERATURE: TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEGREES F (4 DEGREES C) AND BELOW, AND WHEN 80 DEGREES F (27 DEGREES C) AND ABOVE.
4) COMPRESSION TEST SPECIMEN: ASTM C 31; ONE SET OF 4 STANDARD CYLINDERS FOR EACH COMPRESSIVE STRENGTH TEST, UNLESS OTHERWISE DIRECTED. HOLD AND STORE CYLINDERS FOR LABORATORY CURED TEST SPECIMENS EXCEPT WHEN FIELD-CURE TEST SPECIMENS ARE REQUIRED; 1 RESERVED FOR LATER TESTING IF REQUIRED.
5) COMPRESSIVE STRENGTH TESTS: ASTM C 39; ONE SET FOR EACH 100 CU YDS. OR FRACTION THEREOF, OF EACH CONCRETE CLASS PLACED IN ANY ONE DAY OR FOR EACH 5,000 SQ. FT. OF SURFACE AREA PLACED; 1 SPECIMEN TESTED AT 7 DAYS; 2 SPECIMENS TESTED AT 28 DAYS; 1 RESERVED FOR LATER TESTING IF REQUIRED.
A) WHEN FREQUENCY OF TESTING WILL PROVIDE LESS THAN 5 STRENGTH TESTS FOR A GIVEN CLASS OF CONCRETE, CONDUCT TESTING FROM AT LEAST 5 RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN 5 ARE USED.
B) WHEN TOTAL QUANTITY OF A GIVEN CLASS OF CONCRETE IS LESS THAN 50 CU YDS., STRENGTH TEST MAY BE WAIVED BY ENGINEER IF, IN HIS JUDGMENT, ADEQUATE EVIDENCE OF SATISFACTORY STRENGTH IS PROVIDED.
C) WHEN STRENGTH OF FIELD-CURED CYLINDERS IS LESS THAN 80% OF COMPANION LABORATORY-CURED CYLINDERS, EVALUATE CURRENT OPERATIONS AND PROVIDE CORRECTIVE PROCEDURES FOR PROTECTING AND CURING THE IN-PLACE CONCRETE.
D) STRENGTH LEVEL OF CONCRETE WILL BE CONSIDERED SATISFACTORY IF 80% OF STRENGTH TEST RESULTS AND AVERAGES OF ALL SETS OF THREE CONSECUTIVE STRENGTH TEST RESULTS EQUAL OR EXCEED SPECIFIED COMPRESSIVE STRENGTH, AND NO INDIVIDUAL STRENGTH TEST RESULT FALLS BELOW SPECIFIED COMPRESSIVE STRENGTH BY MORE THAN 500 PSI.
C. ADDITIONAL TESTS: THE TESTING SERVICE WILL MAKE ADDITIONAL TESTS OF IN-PLACE CONCRETE WHEN TEST RESULTS INDICATE SPECIFIED STRENGTHS AND OTHER CHARACTERISTICS HAVE NOT BEEN ATTAINED IN THE STRUCTURE, AS DIRECTED BY ENGINEER. TESTING SERVICE MAY CONDUCT TESTS TO DETERMINE ADEQUACY OF CONCRETE BY CORED CYLINDERS COMPLYING WITH ASTM C 42, OR BY OTHER METHODS AS DIRECTED. CONTRACTOR SHALL PAY FOR SUCH TESTS CONDUCTED, AND ANY OTHER ADDITIONAL TESTING AS MAY BE REQUIRED, WHEN UNACCEPTABLE CONCRETE IS VERIFIED.



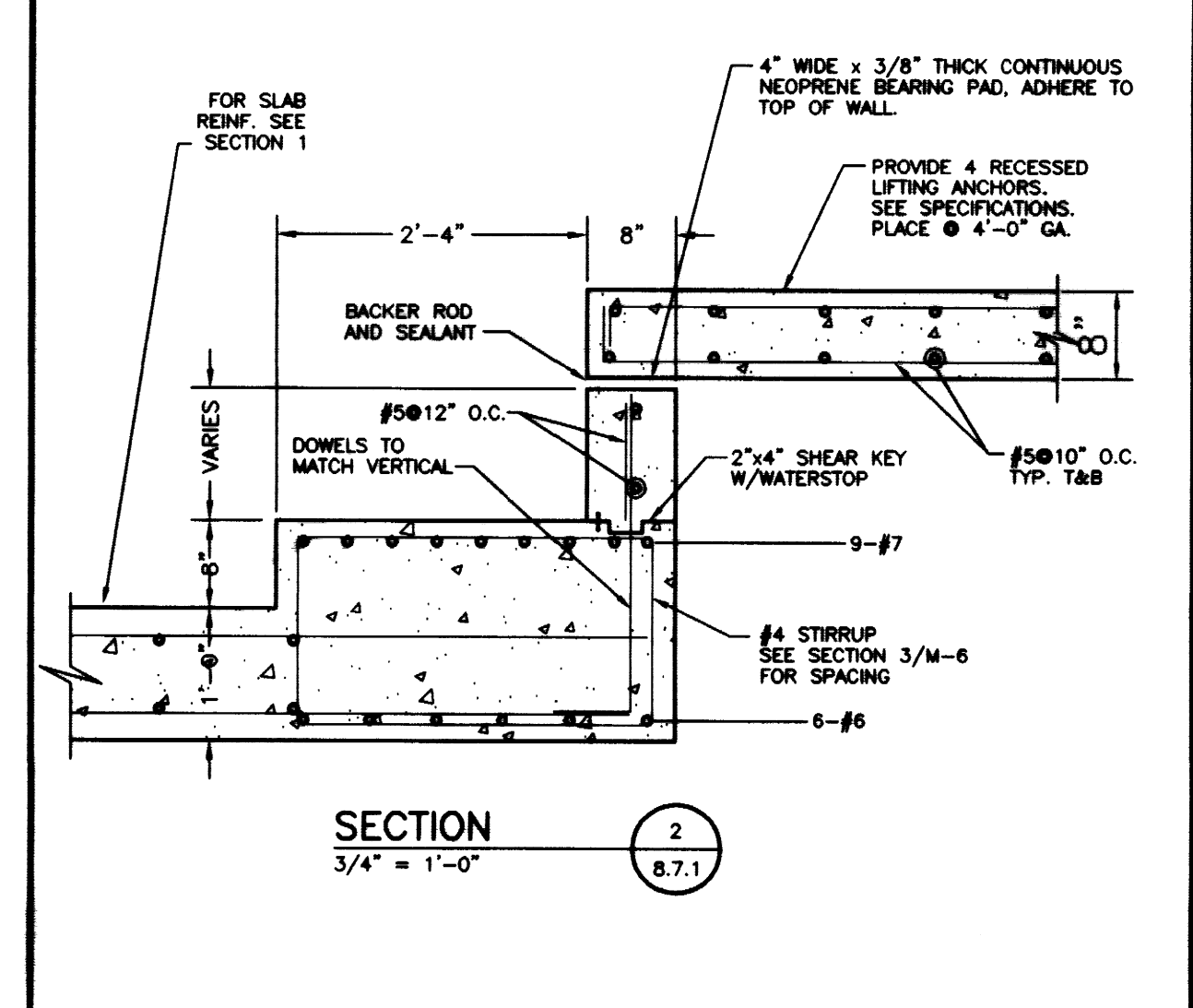
JACKETED PIPE WALL PENETRATION DETAIL
SCALE: NONE



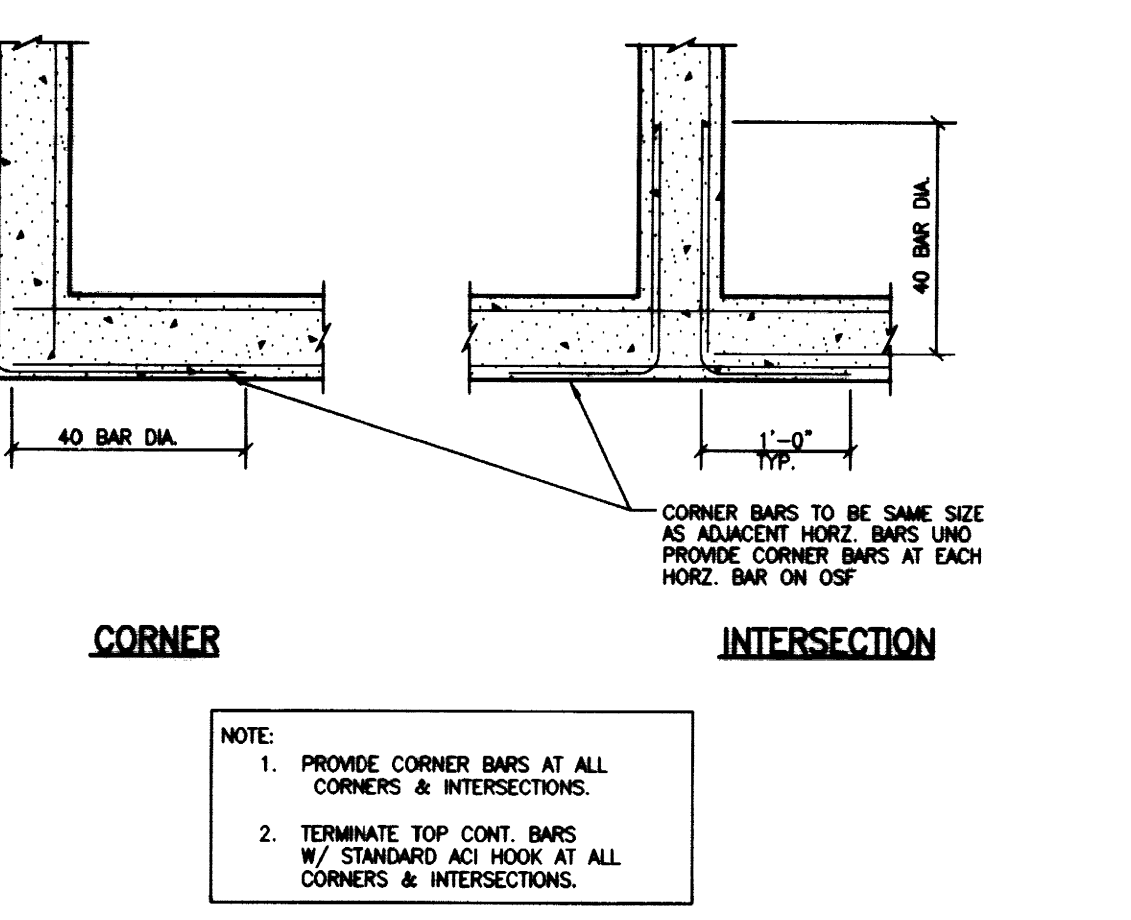
SECTION 3
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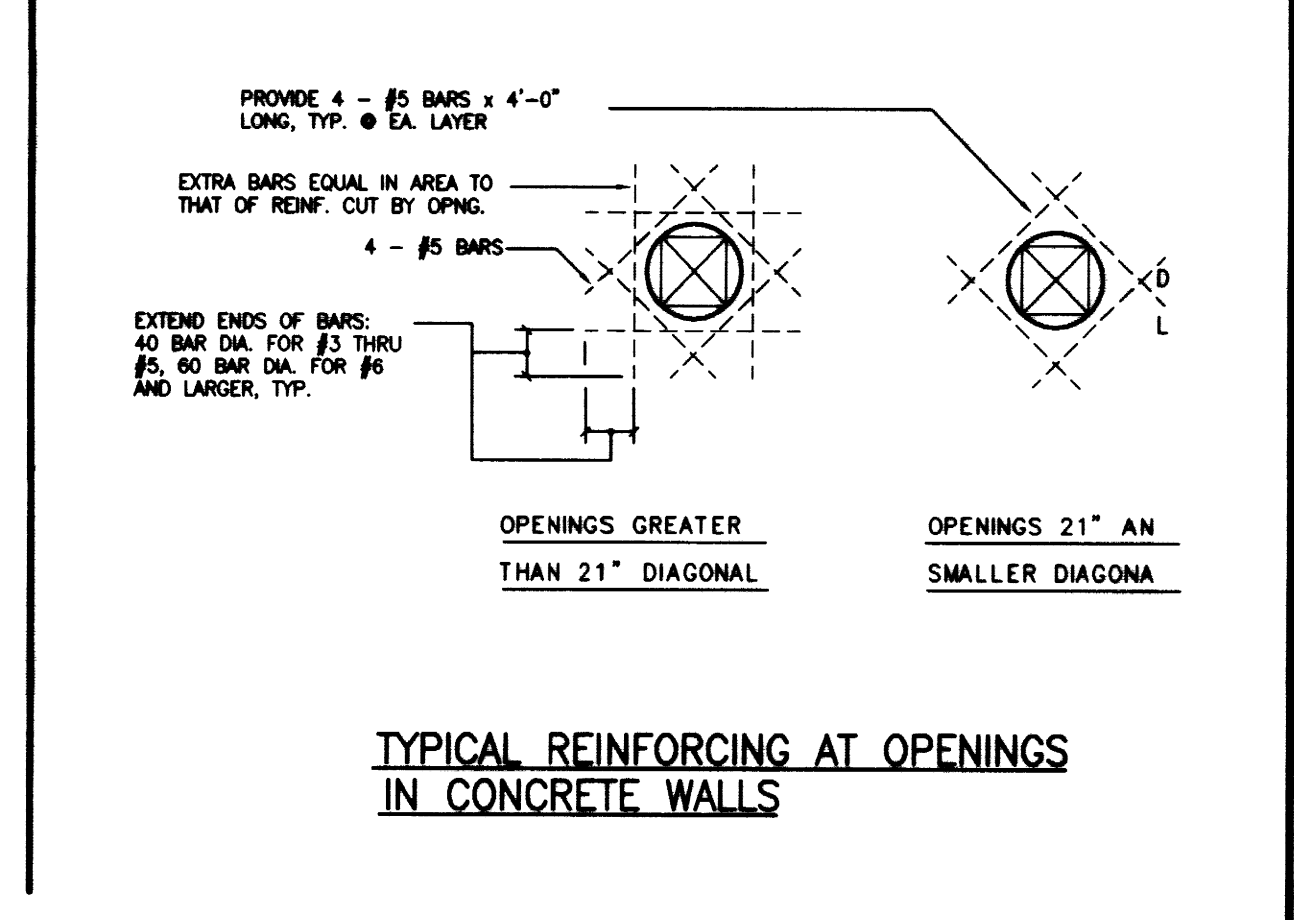
SECTION 4
SCALE: 3/4" = 1'-0"



SECTION 2
SCALE: 3/4" = 1'-0"



CORNER INTERSECTION



TYPICAL REINFORCING AT OPENINGS IN CONCRETE WALLS

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 INTERIOR 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 CONTRACTORS CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

HUGUELET SITE STRUCTURAL DETAILS

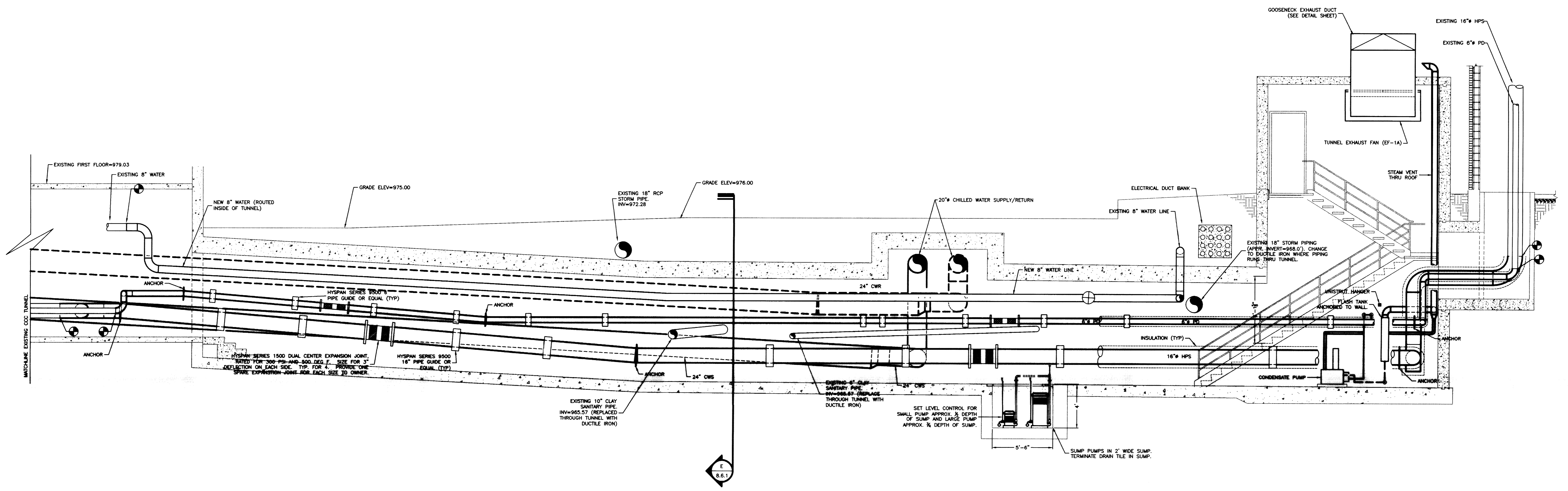
RECORD DRAWINGS DATE 11/10/03
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STAGGS & FISHER CONSULTING ENGINEERS, INC. HUGUELET DRIVE

UJMW
CHESMAN MILLER WOODFORD, INC.
STRUCTURAL ENGINEERING
2834 LEXINGTON DRIVE
LEXINGTON, KENTUCKY 40517
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FAX: 606-251-1112
WWW.UJMW.COM

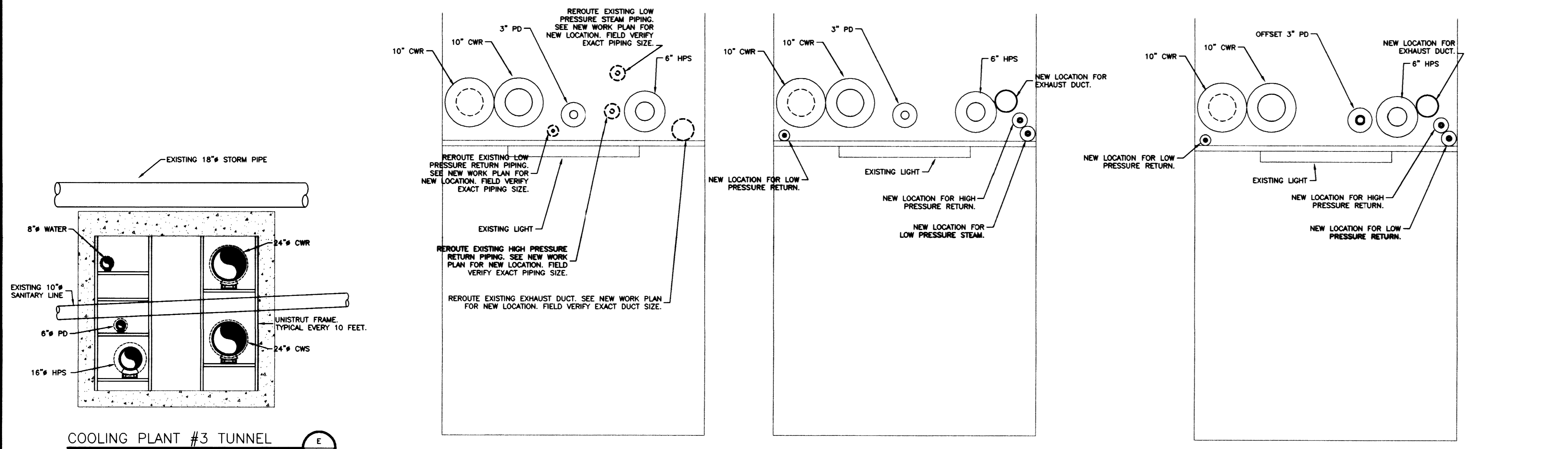
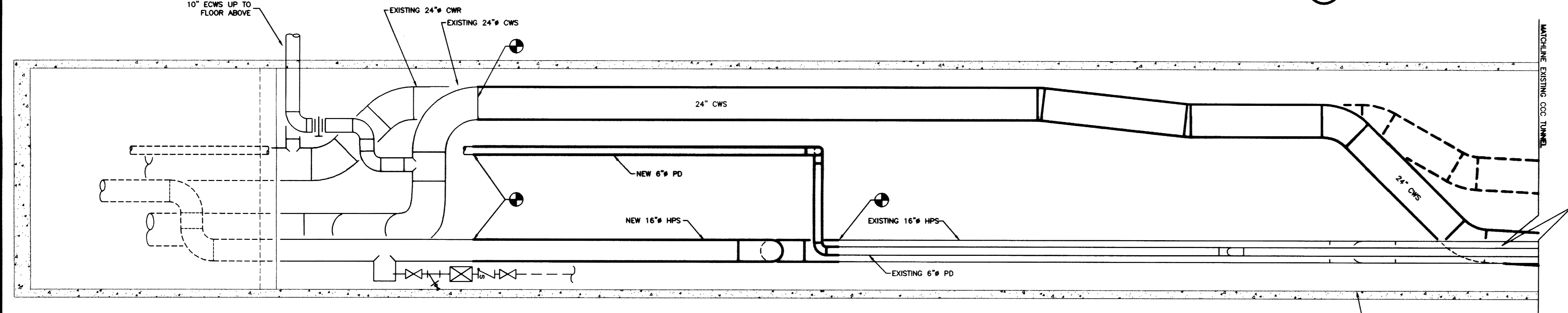
SEF
Staggs and Fisher
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2834 Lexington Drive
Lexington, Kentucky 40517
PH: 606-251-1111
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WWW.SFENGINEERS.COM

UTILITY UPGRADE - PHASE 1
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LEXINGTON, KENTUCKY

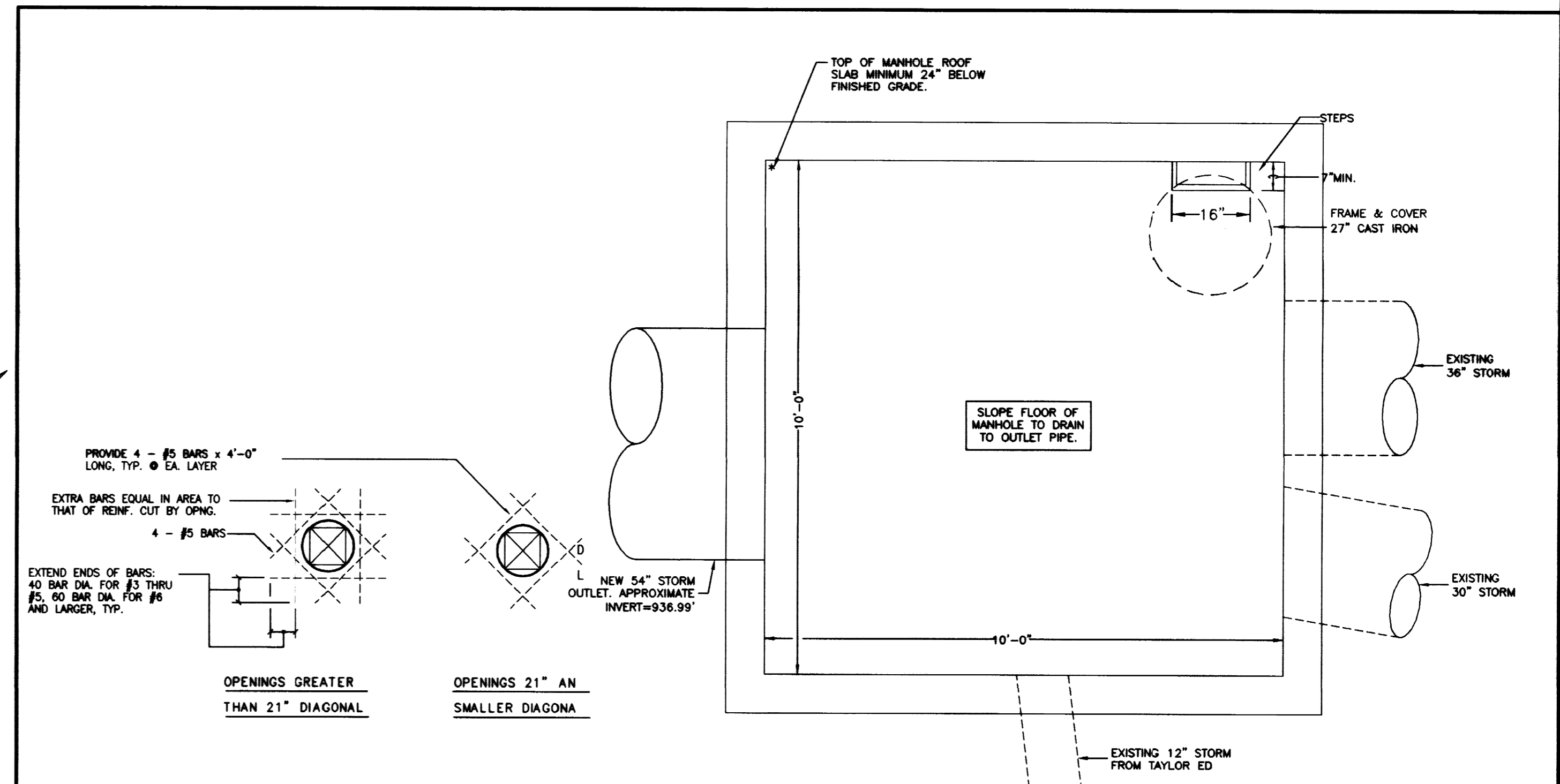
SHT. PROJECT TITLE
DATE: DECEMBER, 2000
DRAWN BY: MPO
CHECKED BY: COK
REVISED:
DATE: 11/14/01 STEAM R
SHEET NUMBER
8.7.1
PROJECT NUMBER
99024.02
CAB # 174 C-1 25196



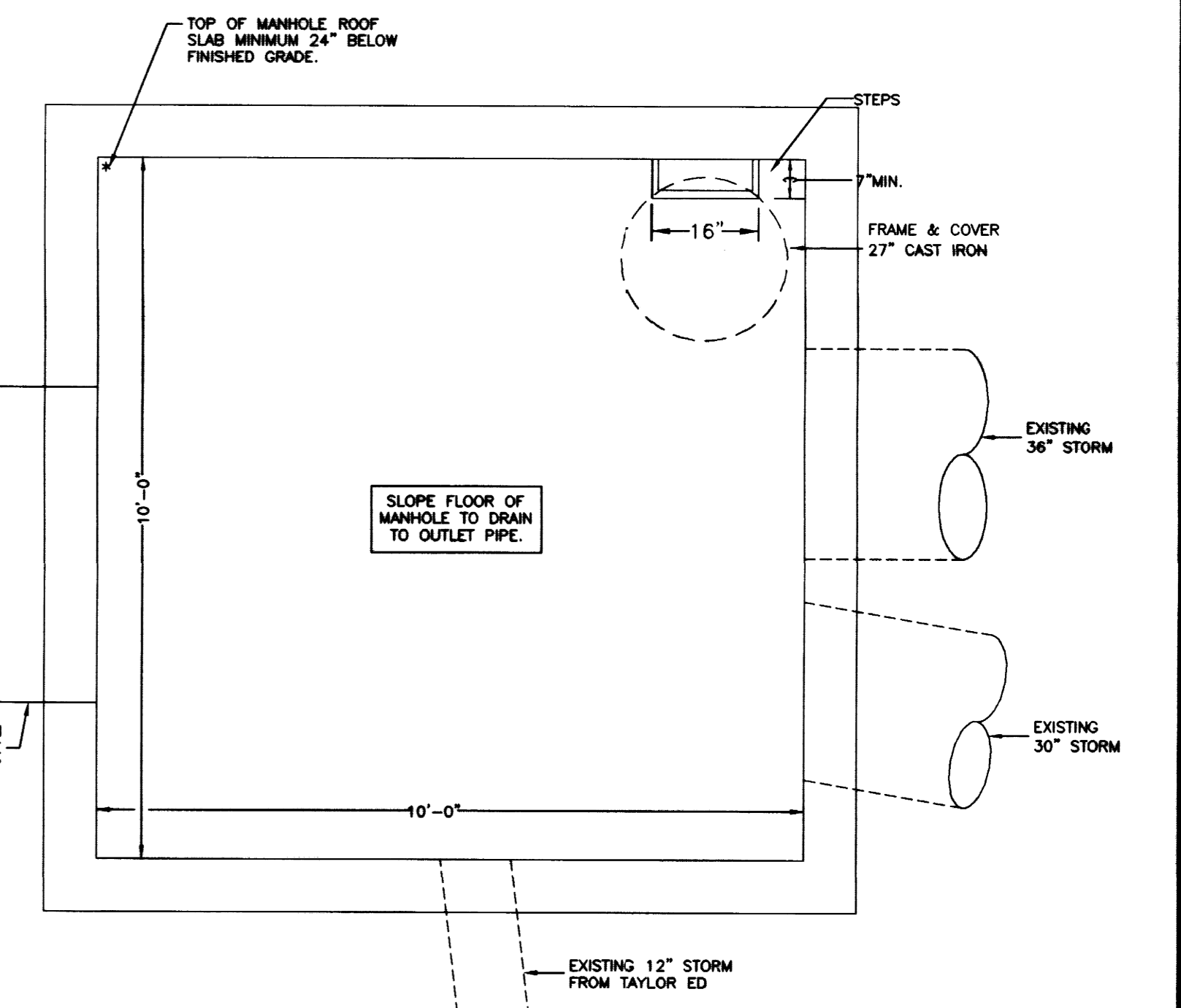
COOLING PLANT #3 TUNNEL SECTION
SCALE: 1/4"=1'-0"



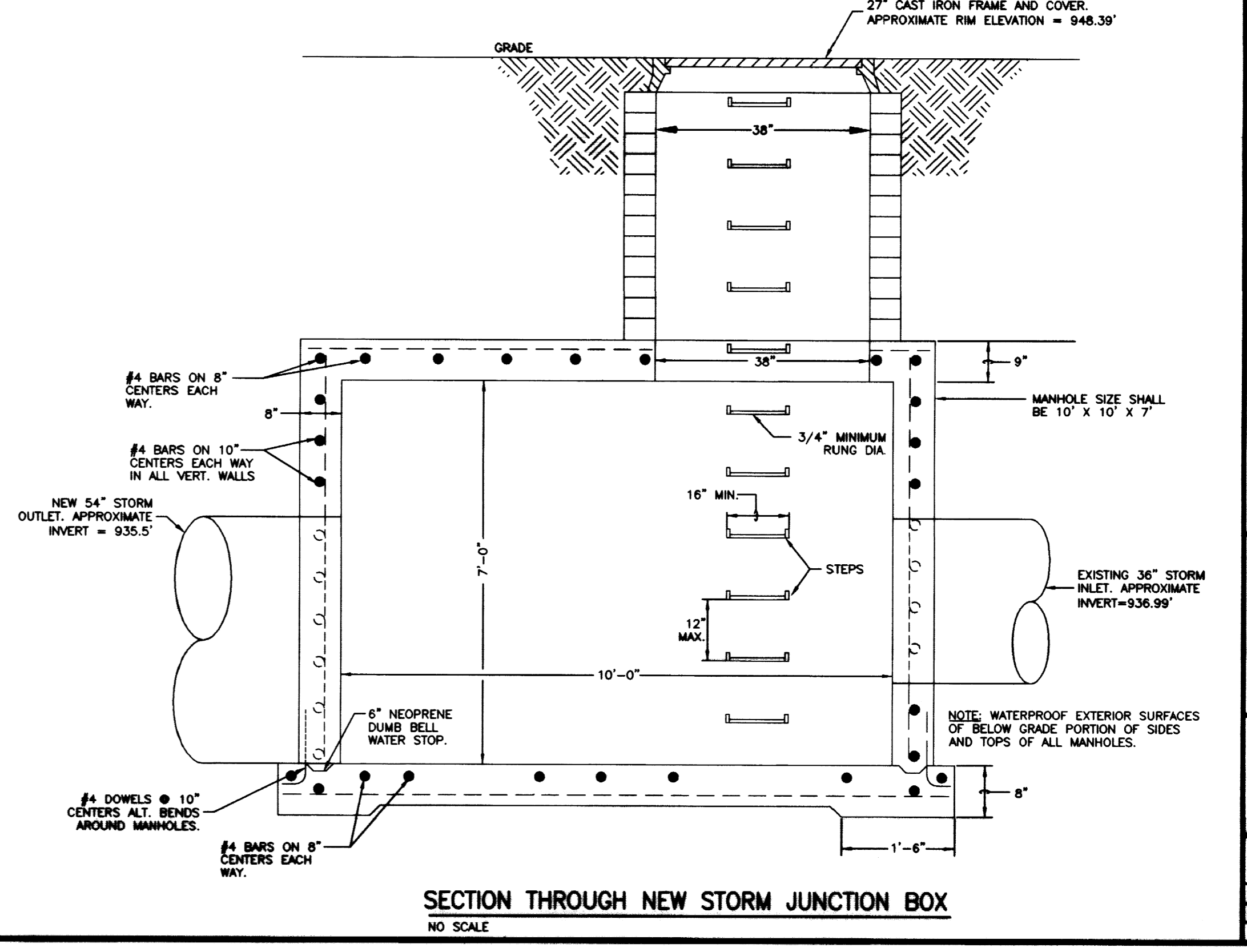
SECTION "A" SCALE: 1/2"=1'-0"
SECTION "B" SCALE: 1/2"=1'-0"



TYPICAL REINFORCING AT OPENINGS IN CONCRETE WALLS



PLAN - NEW STORM JUNCTION BOX
NO SCALE



SECTION THROUGH NEW STORM JUNCTION BOX
NO SCALE

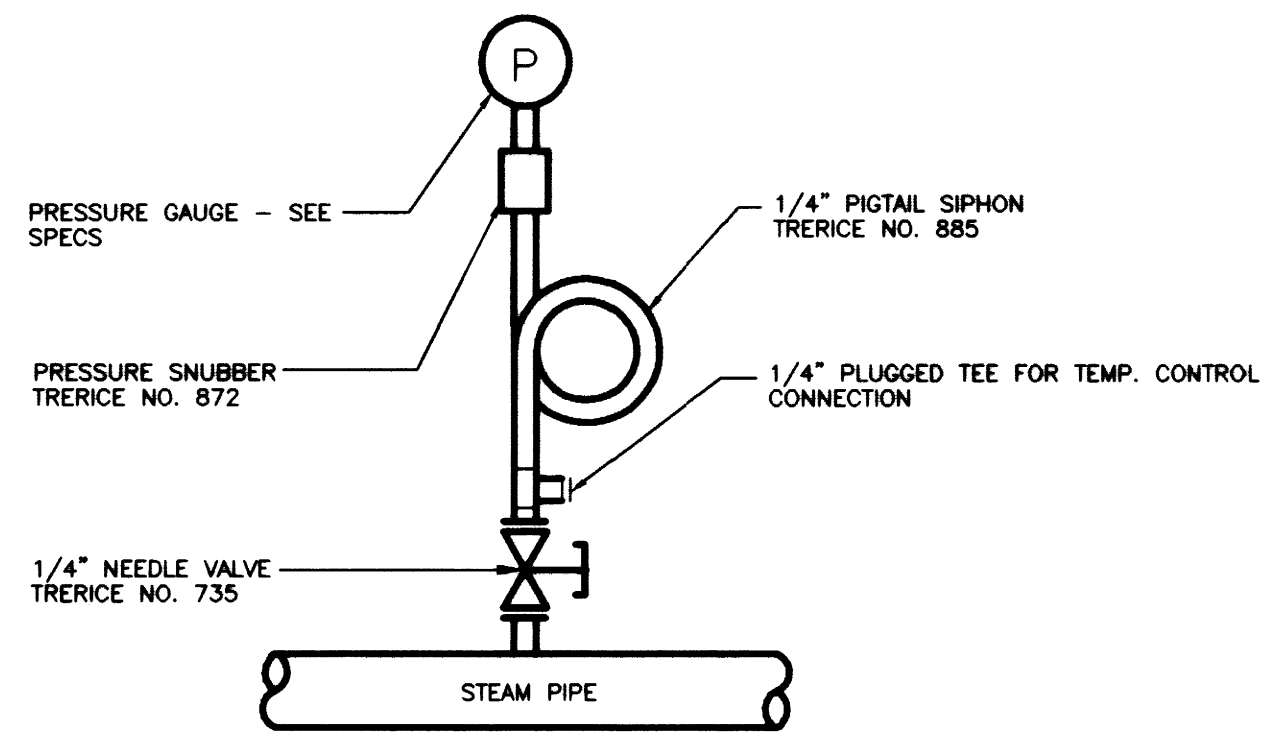
NOTE:
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STAGGS & FISHER CONSULTING ENGINEERS, INC.

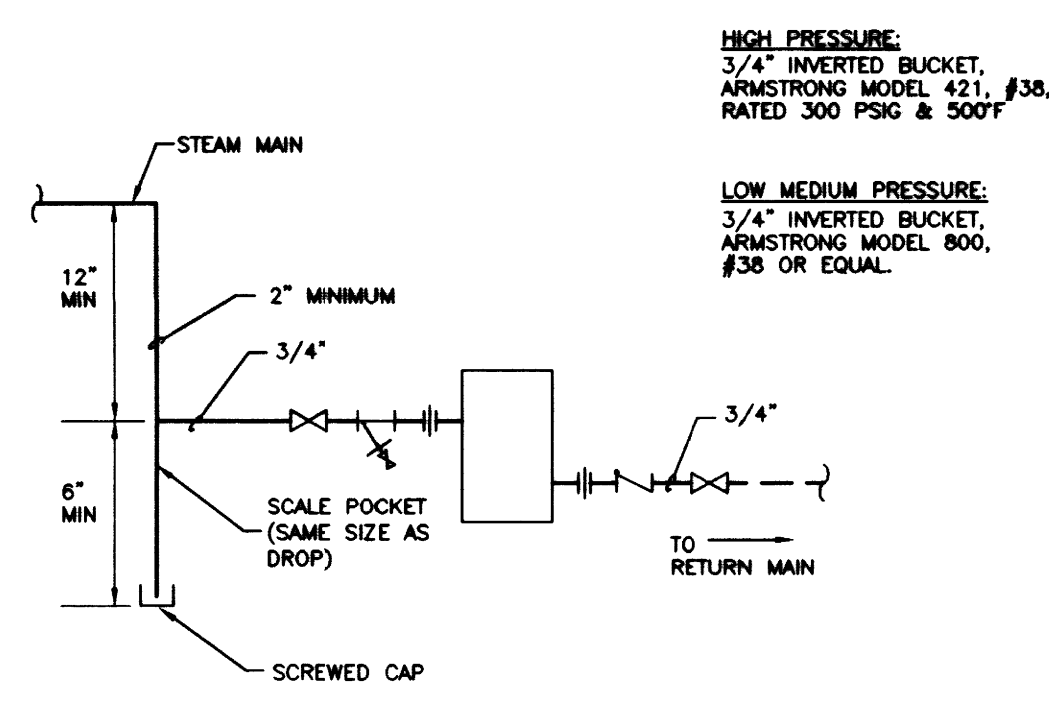
FAILURE TO ADHERE TO THESE CONDITIONS MAY BE CAUSE FOR THE CONTRACTOR TO BE DEEMED TO HAVE ACCEPTED THE WORK AS SHOWN AND TO BE RESPONSIBLE FOR ANY DEFICIENCIES OR DAMAGES TO THE WORK OR TO OTHERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

H.V.A.C. SECTIONS
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

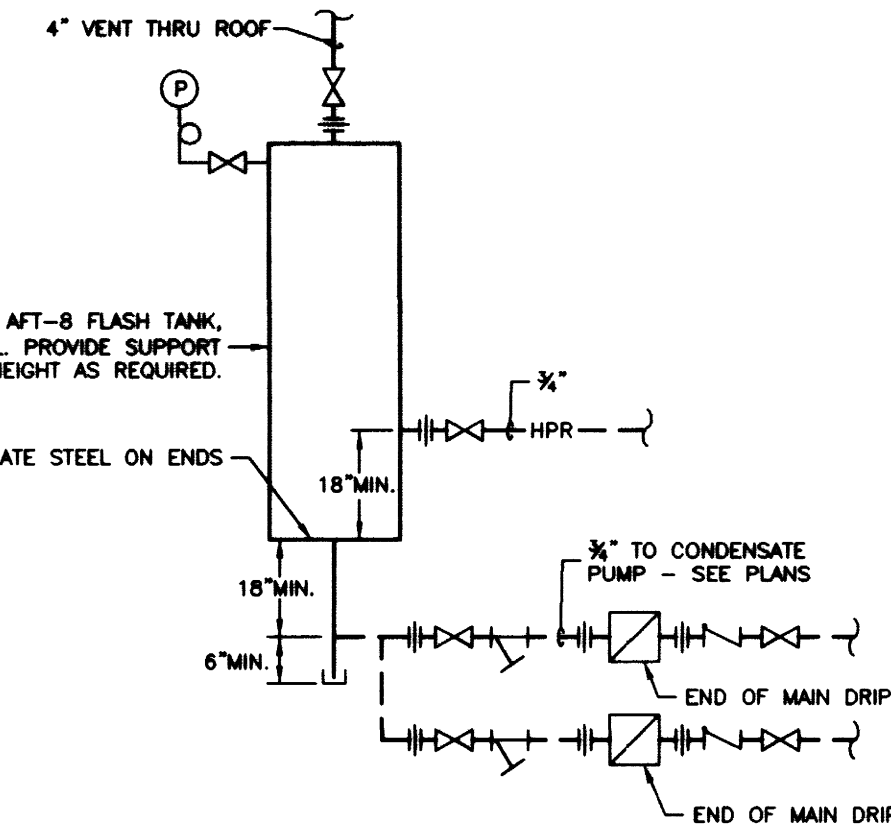
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DRAWN BY: MFG
CHECKED BY: CCK
REVISED: DATE
SHEET NUMBER: 8.8.1
PROJECT NUMBER: 80024.02



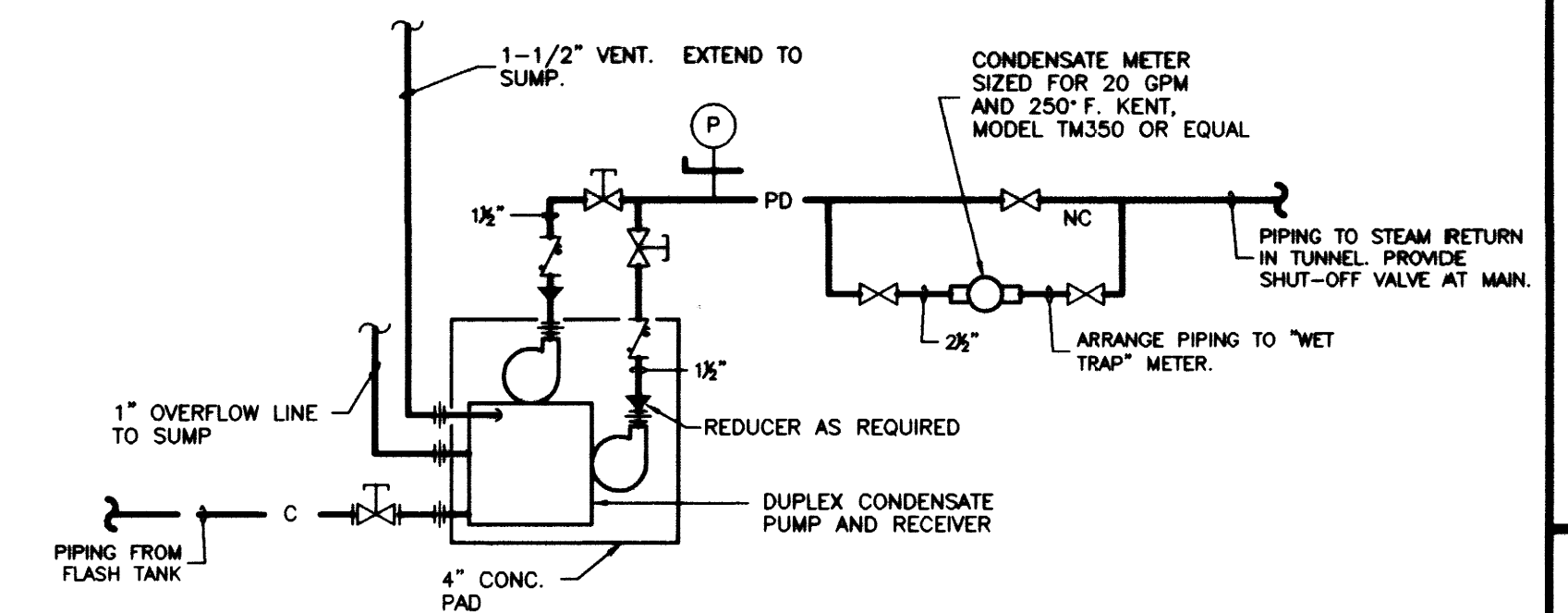
STEAM PRESSURE GAUGE INSTALLATION
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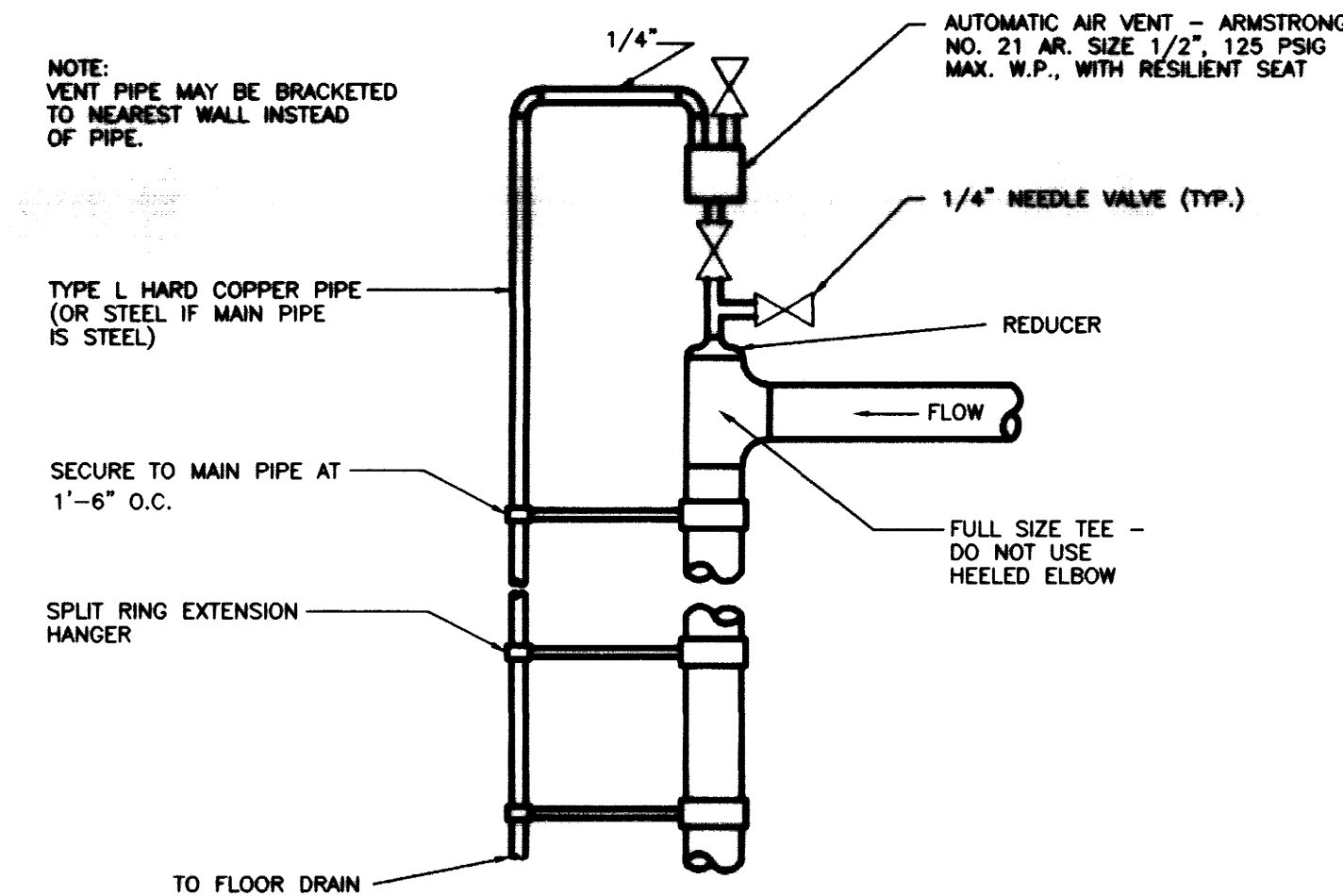
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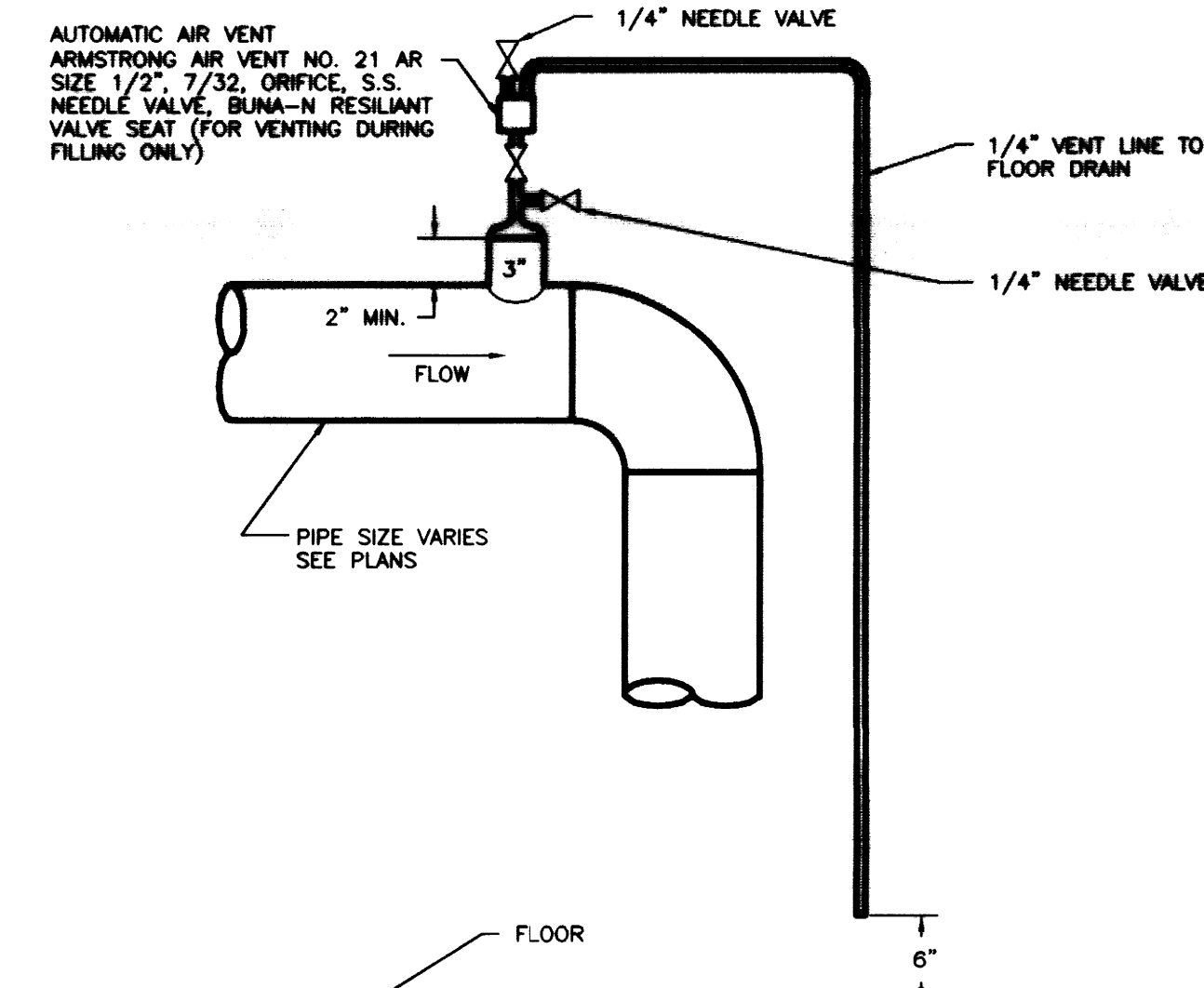
FLASH TANK PIPING DETAIL
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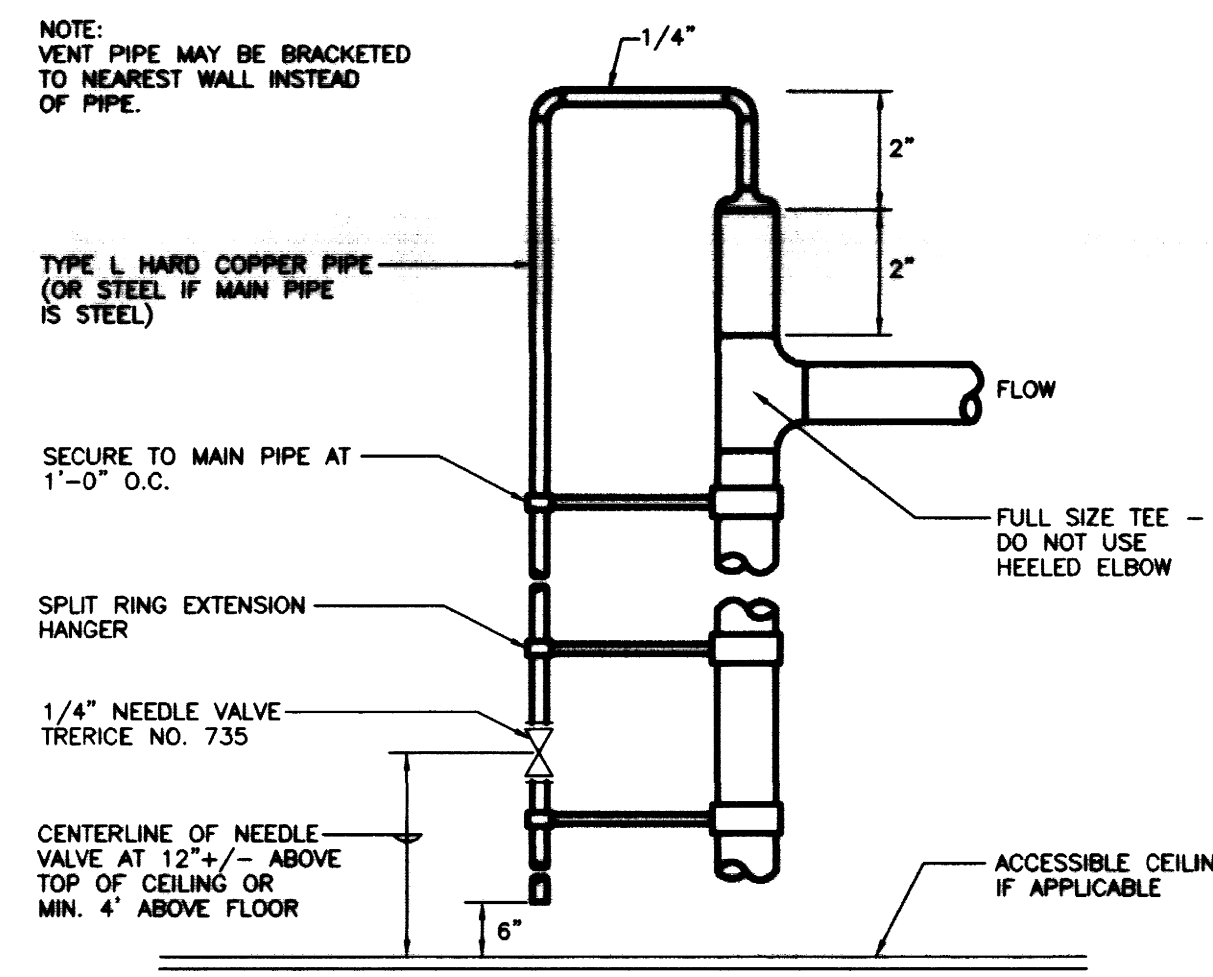
CONDENSATE PUMP PIPING DIAGRAM
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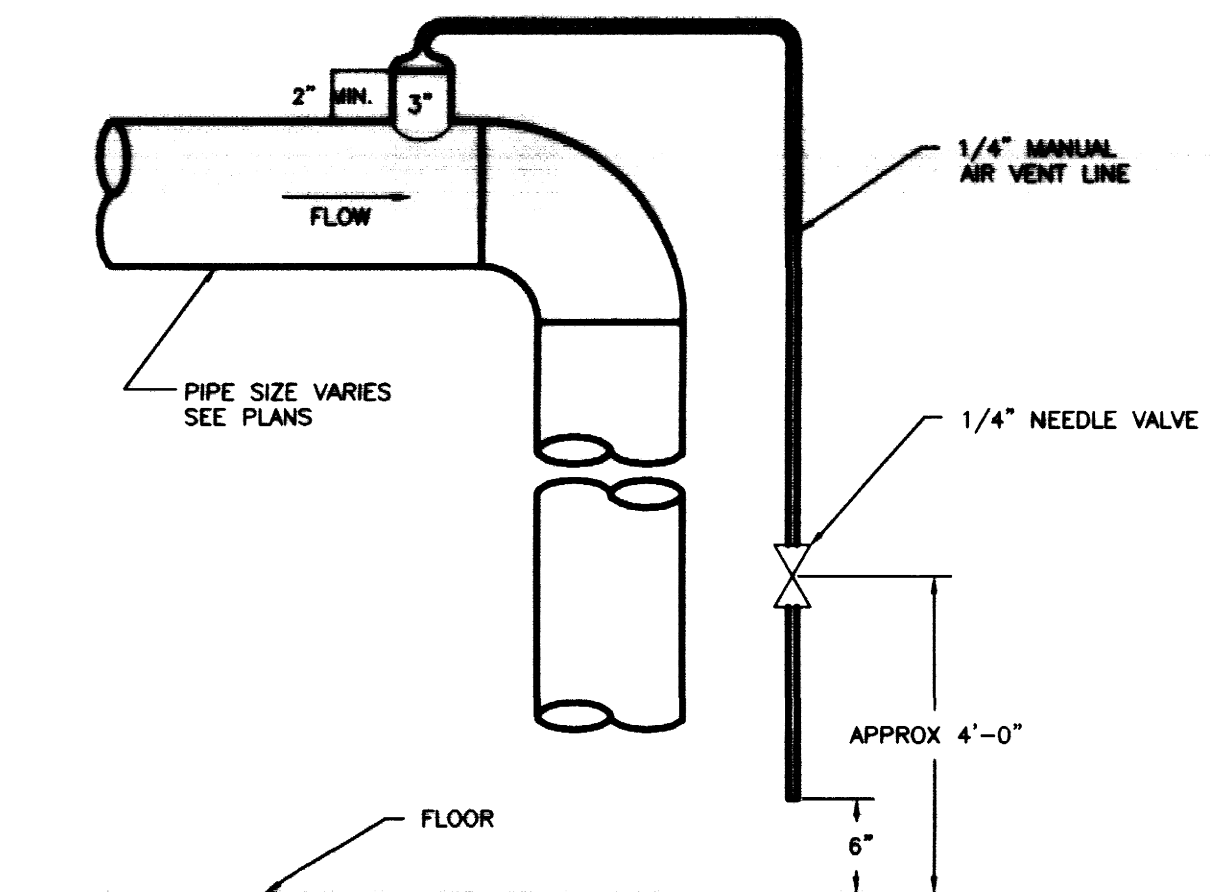
AUTOMATIC AIR VENT DETAILS - 3" & SMALLER
NO SCALE



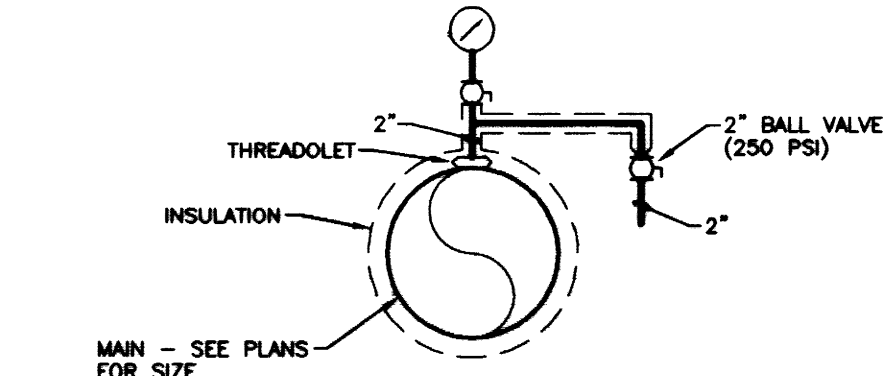
AUTOMATIC AIR VENT DETAIL - PIPES 4" AND LARGER
NO SCALE



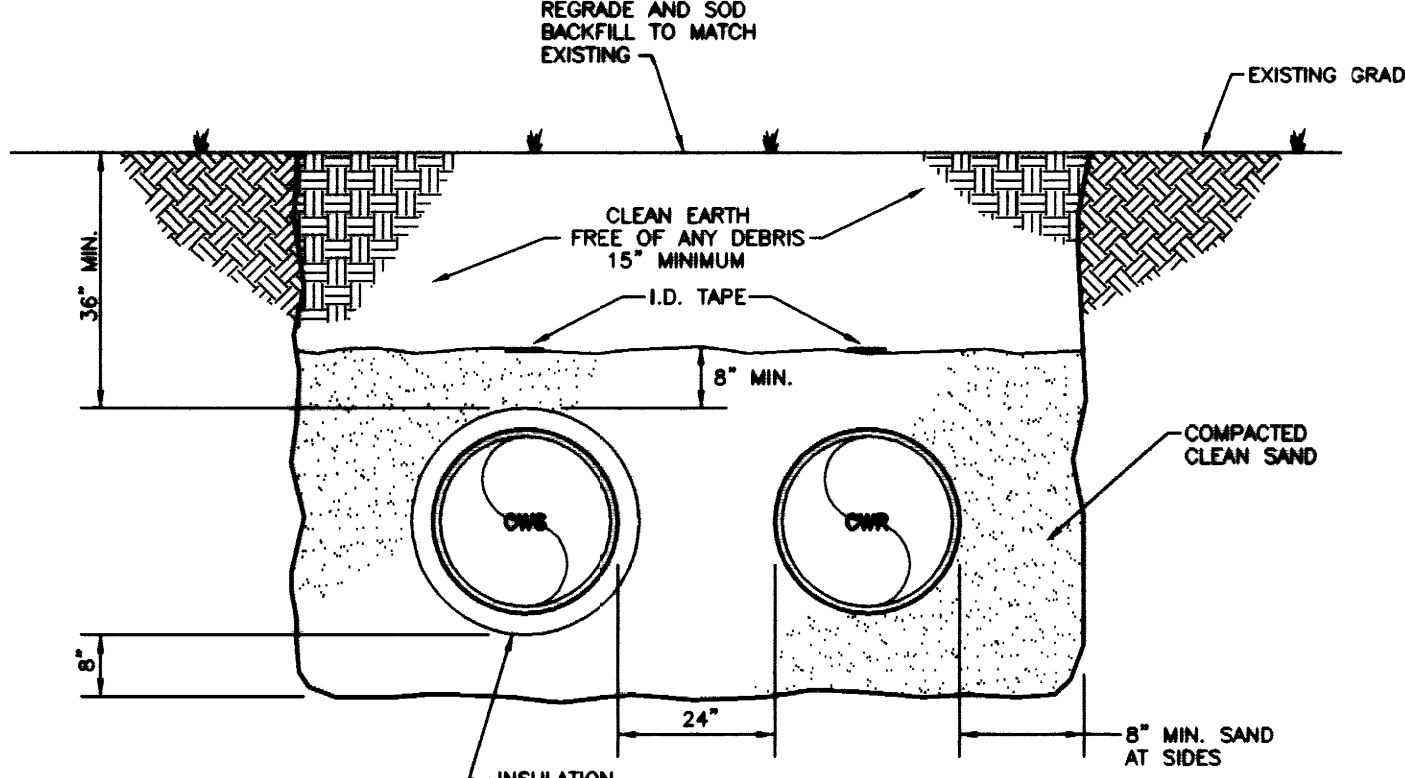
MANUAL AIR VENT DETAIL - PIPES 3" AND SMALLER
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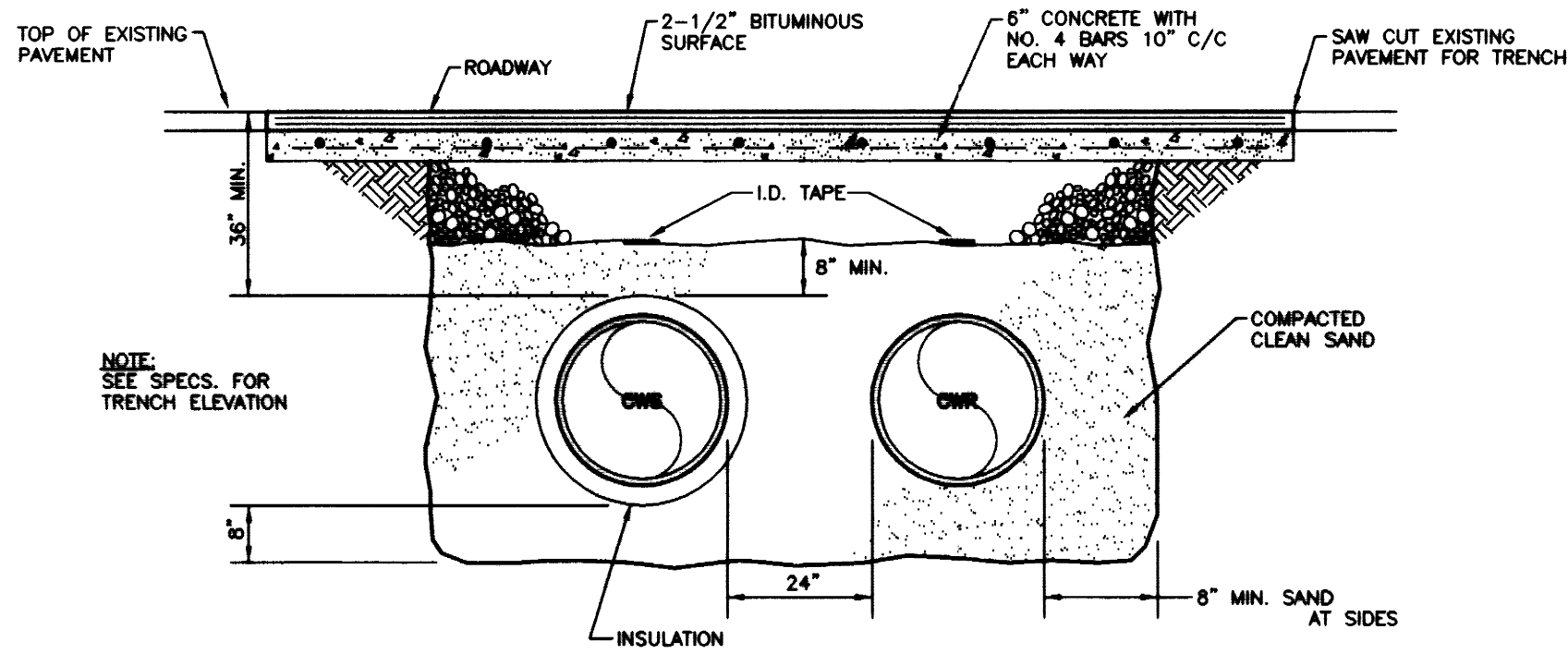
MANUAL AIR VENT DETAIL - PIPES 4" AND LARGER
NO SCALE



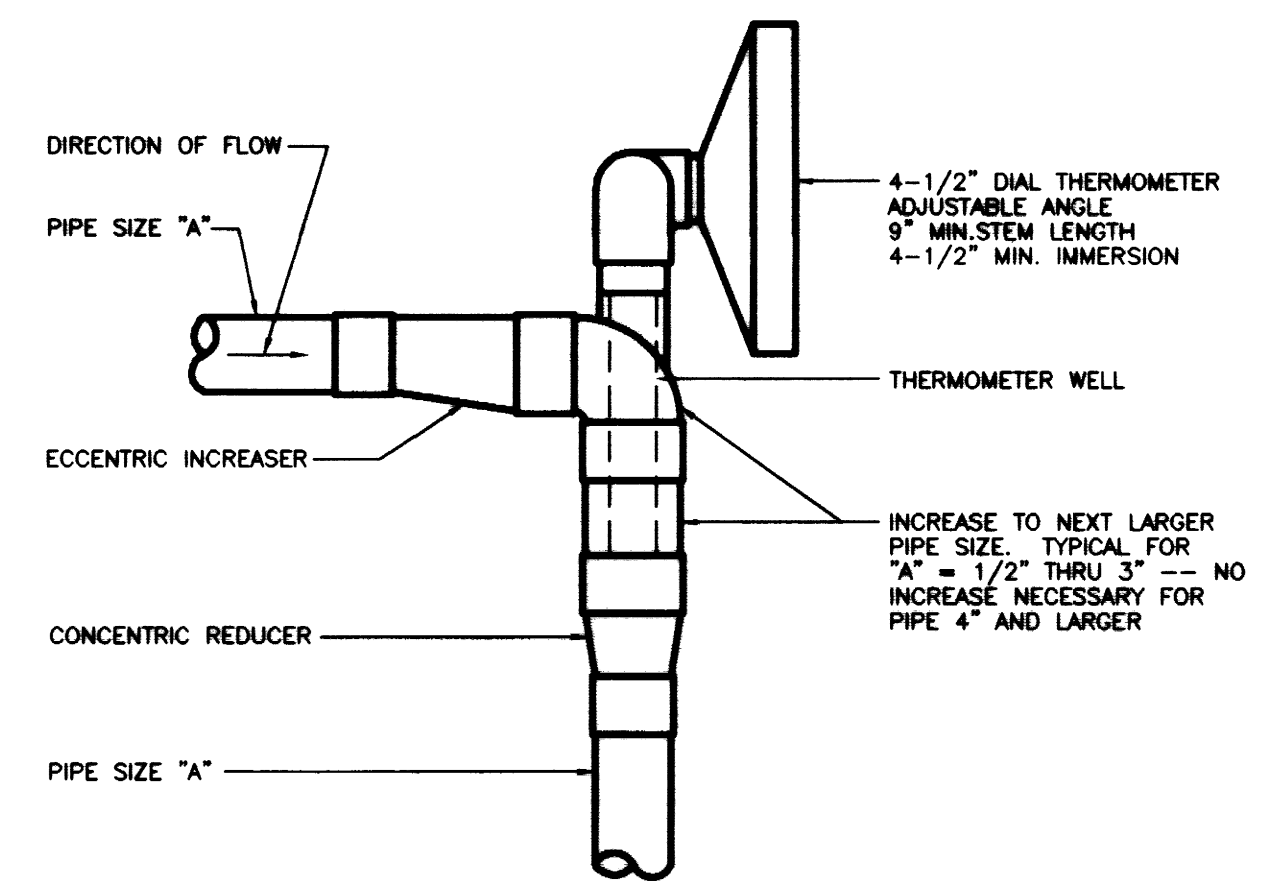
TYPICAL CHILLED WATER MANUAL AIR VENT & PRESSURE GAUGE
NO SCALE



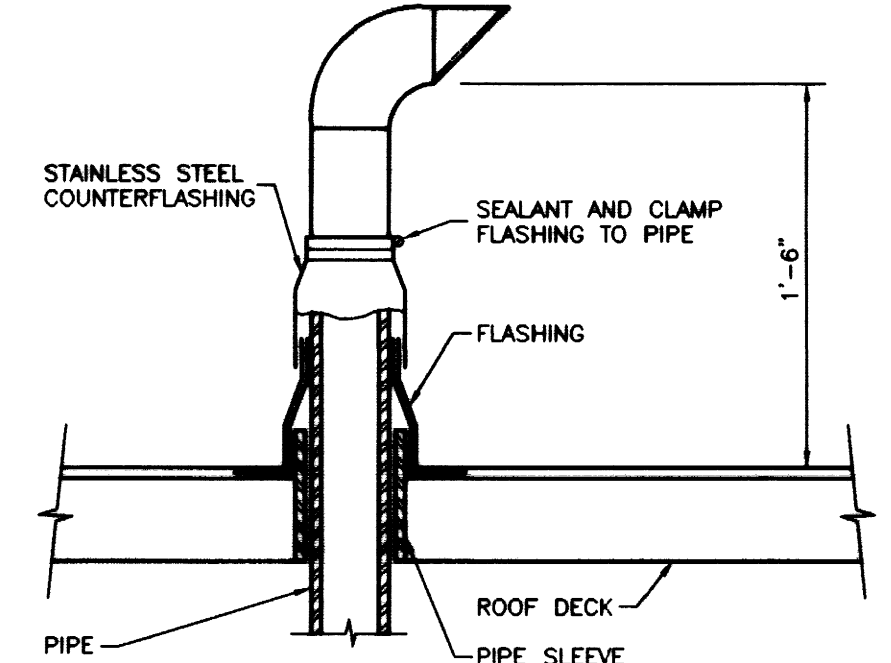
TYPICAL SECTION CWS/CWR UNDER SOD
NO SCALE



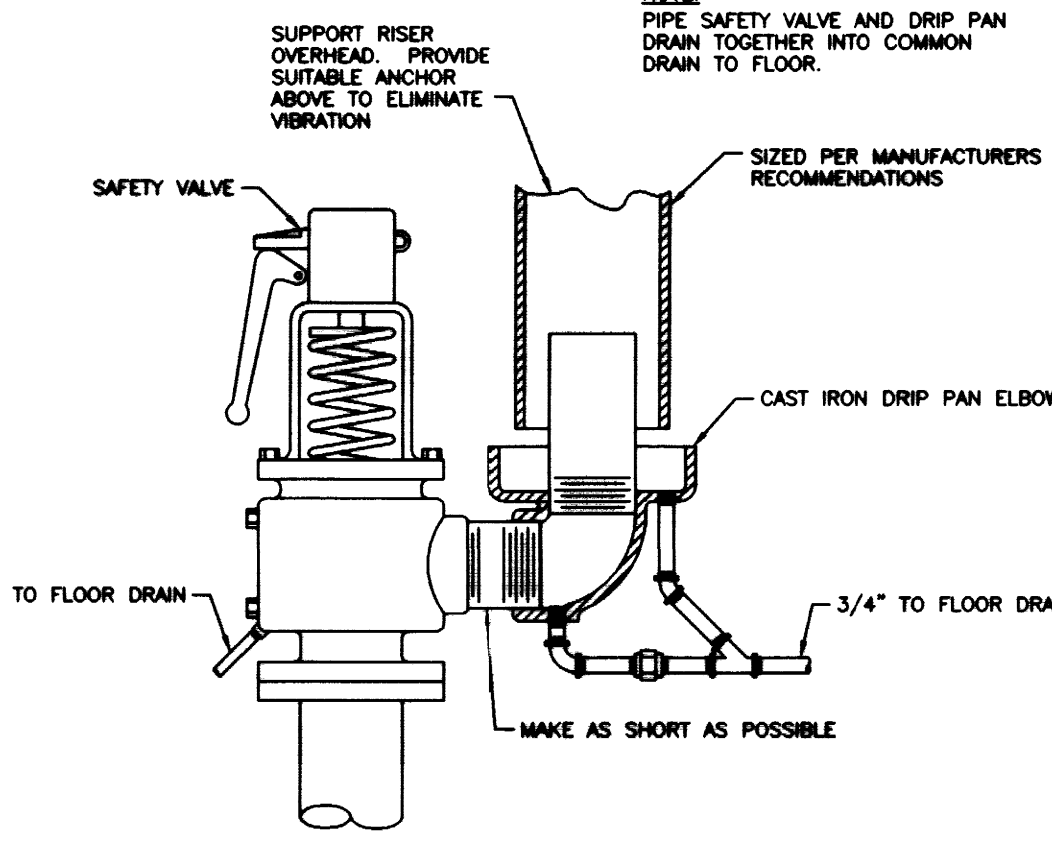
TYPICAL SECTION CWS/CWR UNDER ASPHALT
NO SCALE



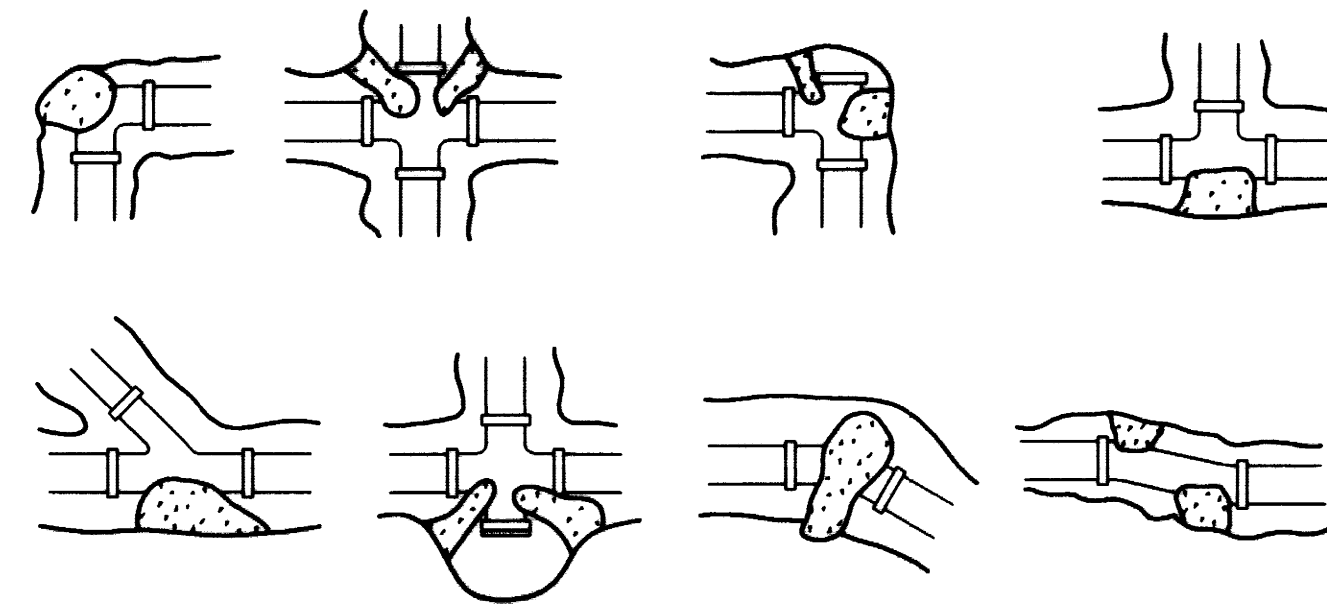
PIPE THERMOMETER INSTALLATION DETAIL
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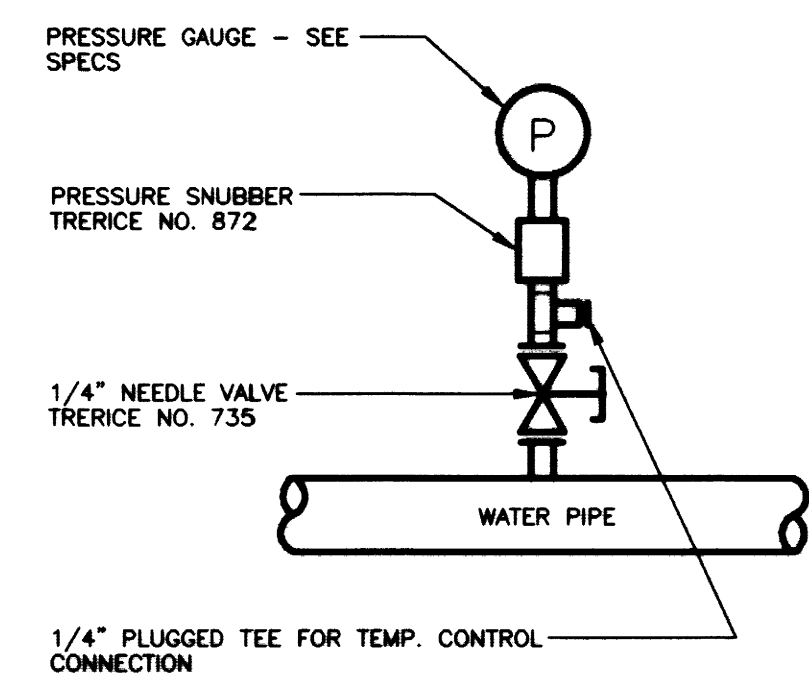
DETAIL OF PIPE PENETRATION THRU ROOF
NO SCALE



DRIP PAN ELBOW INSTALLATION
NO SCALE



THRUST BLOCK DETAIL
NO SCALE



WATER PRESSURE GAUGE INSTALLATION
NO SCALE

RECORD DRAWINGS DATE 11/10/03
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STAGGS & FISHER CONSULTING ENGINEERS, INC.

CJMW
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308 S. BROADWAY
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SEF
Staggs and Fisher
Consulting Engineers, Inc.
Lexington, Kentucky 40517

REGISTERED PROFESSIONAL ENGINEER
STATE OF KENTUCKY
No. 10000
KENTON W. FISHER

DESIGNED BY: [Name]
DRAWN BY: [Name]
CHECKED BY: [Name]
DATE: [Date]

H.V.A.C. DETAILS
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHEET PROJECT TITLE
DATE: DECEMBER, 2000
DRAWN BY: CCK
CHECKED BY: CCK
REVISED: [Date]
DATE

SHEET NUMBER
8.9.1

PROJECT NUMBER
99024.02

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- GENERAL NOTES - SITE UTILITIES**
- EXISTING UTILITIES SHOWN MAY ACTUALLY BE IN DIFFERENT LOCATIONS AND ADDITIONAL UTILITIES NOT SHOWN MAY EXIST AND MAY BE IN USE.
 - TOP ELEVATIONS OF NEW UNDERGROUND STRUCTURE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. ACTUAL TOP ELEVATIONS MUST BE THE SAME AS FINISHED GRADE IN THE SAME AREA. SEE ARCHITECTURAL PLANS FOR FINISHED GRADES.
 - LOCATIONS OF UTILITIES ARE APPROXIMATE AND SUBJECT TO MINOR CHANGES IN THE FIELD. DO NOT SCALE THE DRAWINGS.
 - INSTALL DOMESTIC WATER PIPING WITH 3"-6" MINIMUM COVER.
 - INSTALL FIRE PROTECTION PIPING WITH 4"-0" MINIMUM COVER.
 - INSTALL NATURAL GAS PIPING WITH 2'-0" MIN. COVER UNDER GRASSED AREAS AND 2'-0" MINIMUM COVER UNDER PAVED SURFACES - AS DETAILED ON DRAWINGS.
 - INSTALL UNDERGROUND FEEDERS WITH 2'-0" MINIMUM COVER.
 - VERIFY EXACT SIZES AND ROUTING OF EXISTING UNDERGROUND UTILITIES WITH APPROPRIATE UTILITY COMPANIES BEFORE DOING ANY EXCAVATING.
 - THE CONTRACT DOCUMENTS SHOW THE APPROXIMATE LOCATION OF THE EXISTING AND NEW SUBSURFACE UTILITY LINES. THESE LINES HAVE BEEN IDENTIFIED AND LOCATED AS ACCURATELY AS POSSIBLE USING AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL LOCATIONS. IF ANY CHARTERED, UNCHARTERED OR MISLOCATED UTILITY SERVICE IS INTERRUPTED FOR ANY REASON, THE CONTRACTOR WILL WORK CONTINUOUSLY TO RESTORE SERVICE TO THE SATISFACTION OF THE OWNER.
 - SHOULD UTILITIES REQUIRE RELOCATION OR ROUTING NOT SHOWN OR INDICATED TO BE RELOCATED OR ROUTED, CONTACT AND COORDINATE WITH THE OWNER TO MAKE THE REQUIRED ADJUSTMENTS AT AN EQUITABLE CHANGE IN THE CONTRACT PRICE.
 - EXCAVATION: MATERIALS TO BE EXCAVATED SHALL INCLUDE EARTH AND ANY OTHER MATERIAL, INCLUDING ROCK, ENCOUNTERED IN THE TRENCH EXCAVATION. SEE SPECIFICATIONS.
 - TESTING OF EXTERIOR SEWER AND MANHOLES SHALL BE AS FOLLOWS:
 - EXTERIOR SANITARY SEWER SHALL BE PLUGGED BETWEEN MANHOLES AND SUBJECTED TO AN AIR PRESSURE TEST WITH ALL OPENINGS TIGHTLY CLOSED. AIR SHALL BE PUMPED IN UNTIL THE PRESSURE IS NOT LESS THAN 5 POUNDS PER SQUARE INCH. THE AIR PRESSURE GAGE SHALL REMAIN CONSTANT WITHOUT PUMPING ADDITIONAL AIR INTO THE SYSTEM.
 - MANHOLE SHALL BE PLUGGED AND FILLED WITH WATER AND A VISUAL INSPECTION MADE FOR LEAKS. ALL LEAKS SHALL BE CORRECTED.
 - ALL TESTS SHALL BE DONE PRIOR TO BACKFILLING.
 - SUPPORT AND PROTECT EXISTING PIPING AS REQUIRED DURING TRENCHING/INSTALLATION.

- GENERAL NOTES - H.V.A.C.**
- DUCTWORK AND PIPING IN ROOMS WITH SUSPENDED CEILINGS SHALL BE ABOVE CEILING EXCEPT IN EQUIPMENT ROOMS.
 - INSTALL AIR VENTS AT HIGH POINTS IN PIPING AND DRAINS IN LOW POINTS.
 - LOCATIONS OF PIPING, DUCT AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
 - ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
 - ALL INCREASERS AND REDUCERS IN PIPING SYSTEMS ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL INCREASERS AND REDUCERS WHERE REQUIRED.
 - COORDINATE WITH PLUMBING, SHEET METAL AND ELECTRICAL CONTRACTORS TO AVOID INTERFERENCE WITH PIPING, DUCTS AND CONDUIT.
 - INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - SEAL AIRTIGHT AROUND ALL DUCT AND PIPING PENETRATIONS THROUGH WALLS AND FLOORS.
 - SEAL ALL DUCTWORK WITH DUCT SEALANT AND/OR DUCT CEMENT IN ACCORDANCE WITH SPECIFICATIONS SECTION "METAL DUCTWORK".
 - DIMENSIONS FOR DUCTS ARE INSIDE DIMENSIONS.
 - DO NOT RUN ANY PIPING OR DUCTWORK OVER ANY ELECTRICAL OR ELEVATOR EQUIPMENT.
 - INSTALL ACCESS DOOR IN DUCT ADJACENT TO EACH MOTOR OPERATED DAMPER.
 - ROLL FITTINGS IN ROUND DUCT AS REQUIRED FOR PORT CONNECTIONS TO BRANCH DUCTS.
 - WHERE SIZE OF DUCT PENETRATING A FIRE WALL OR PARTITION IS LESS THAN THE MINIMUM SIZE OF FACTORY MADE FIRE DAMPER OR DUCT ACCESS DOOR, THEN PROVIDE THE MINIMUM SIZE FACTORY MADE DAMPER AND/OR ACCESS DOOR AVAILABLE. INCREASE DUCT SIZE AS REQUIRED TO ACCOMMODATE TRANSITIONS UPSTREAM AND DOWN STREAM OF SIZE INCREASE.

SAFETY RELIEF VALVES

SYMBOL	MANUFACTURER	MODEL NO.	SIZE	CAPACITY MBH	SET PRESSURE	REMARKS
RV-1	KUNKLE	300	4"x6"	41,343	125	*1
RV-2	KUNKLE	300	3"x4"	23,309	125	*1

REMARKS:
 *1 300# INLET FLANGE, 150# OUTLET FLANGE, RATED FOR 500# AT 750 DEG F, WITH DRIP PAN ELBOW.

STEAM PRESSURE REDUCING VALVES

SYMBOL	MANUFACTURER	MODEL NO.	SIZE	LB/HR	UPSTREAM PRESS. - PSIG	DELIVERY PRESS. - PSIG	REMARKS
PRV-1	LESLE	GPB	4"	20,000	175	125	
PRV-2	LESLE	GPB	2.5"	9,880	175	125	
PRV-3	LESLE	LS-5	3"	11,800	175	125	

COOLING TOWERS

SYMBOL	MANUFACTURER	MODEL NO.	TYPE	CAPACITY TONS	GPM	E.W.B. DEG F	E.W.T. DEG F	L.W.T. DEG F	FAN NO.	HP	PH	ELECTRICAL VOLTS	REMARKS
CT-1	TOWER TECH	TMT-288-301	FORCED DRAFT	556	1950	78	95	85	8	7.5	3	480	*1

REMARKS:
 *1 FAN MOTORS SHALL BE PRE-WIRED TO INDIVIDUAL DISCONNECTS FOR CONNECTION TO MOTOR STARTERS INSIDE BUILDING. PROVIDE ADDITIONAL DRAINS AS REQUIRED TO DRAIN TOWERS 100%.

FANS

SYMBOL	MANUFACTURER	MODEL	TYPE	SONES	CFM	IN. W.G.	RPM	BHP	HP	RPM	PH	VOLTS	WHEEL TYPE	DIAM.	REMARKS
EF-1	COOK	TDB-18	INLINE	*1	11,500	0.40	513	2.8	5	1725	3	480	B.I.	18"	*1

REMARKS:
 *1 PROVIDE PREMIUM EFFICIENCY MOTOR AND SPRING VIBRATION ISOLATORS.
 *2 SOUND DATA (OCTAVE BAND/DB): 1/89, 2/87, 3/81, 4/78, 5/76, 6/73, 7/69, 8/66.

CONDENSATE PUMPS AND RECEIVERS

SYMBOL	MANUFACTURER	MODEL	CAPACITY SQ. FT. EDR	RECEIVER CAP. - GALS	GPM	DISCHARGE PRESS. - PSIG	MOTOR			REMARKS		
							HP	RPM	PH		VOLTS	
CP-1	DOMESTIC	23CB22-20	22,000	36	18.0	20	1/2	3500	3	208	*1	*2
CP-2	DOMESTIC	23CB9-25	9,000	23	9.0	25	1/2	3500	1	115	*1	*2

REMARKS:
 *1 PROVIDE WATER LEVEL GAUGE WITH SHUT-OFF VALVE, DIAL THERMOMETER, INLET BASKET STRAINER, DISCHARGE PRESSURE GAUGES, MECHANICAL ALTERNATOR FOR SEQUENCING AND STANDBY, U.L. LISTED CONTROL PANEL, SUCTION BUTTERFLY VALVE, AND LIFTING EYES.
 *2 PROVIDE THE FOLLOWING WITH CONTROL PANEL: MAGNETIC STARTERS, DISCONNECT SWITCHES AND CIRCUIT BREAKERS, "OFF-HAND-LEAD-LAG" SELECTOR SWITCHES, ELECTRIC ALTERNATOR, TRANSFORMER, PILOT LIGHTS, AND AUDIBLE ALARM.

PUMP SCHEDULE

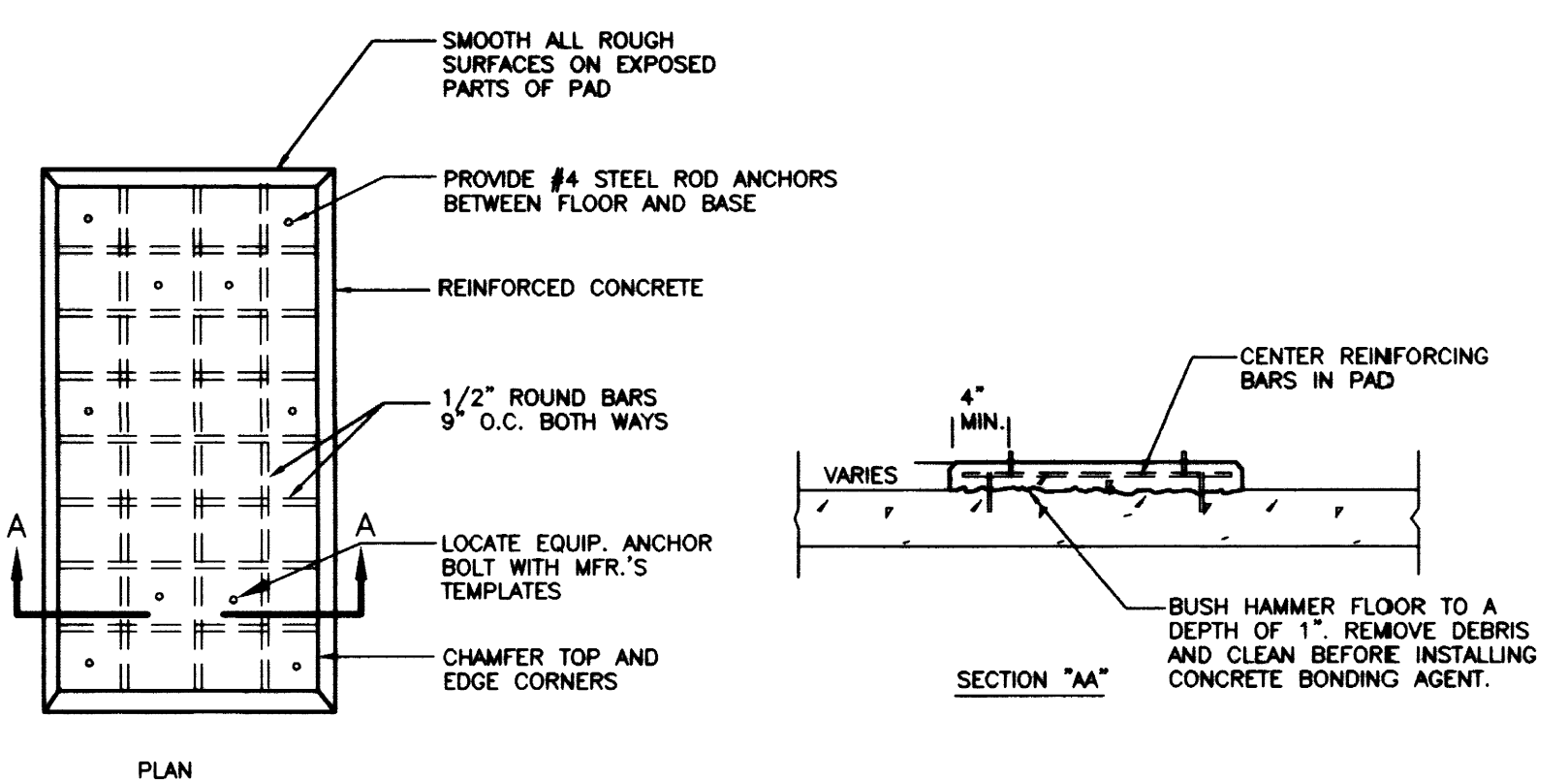
SYMBOL	MFR.	SERIES	SIZE	GPM	HEAD F.T.	BHP	HP	RPM	PH	VOLTS	SHUT-OFF HEAD FT.	END OF CURVE FLOW - GPM	TYPE	REMARKS
PU-1	BELL & GOSSETT	VSCS	10x12x11	2,400	55	41.31	50.00	1775	3	480	75	2,900	V.S.C.	PRIMARY CHILLED WATER PUMP *2
PU-2	BELL & GOSSETT	VSCS	12x14x17-1/2L	5,000	180	252.75	300.00	1785	3	480	200	7,300	V.S.C.	SECONDARY CHILLED WATER PUMP *2
PU-3	BELL & GOSSETT	VSCS	12x14x12-3/4L	4,500	127	173.33	200.00	1785	3	480	150	7,400	V.S.C.	COOLING TOWER PUMP *2

REMARKS:
 *1 V.S.C. - VERTICAL SPLIT CASE, DOUBLE SUCTION.
 *2 PROVIDE EXTERNALLY FLUSHED MECHANICAL SEAL, 250 PSI WORKING PRESSURE, AND 250 PSI FLANGES.

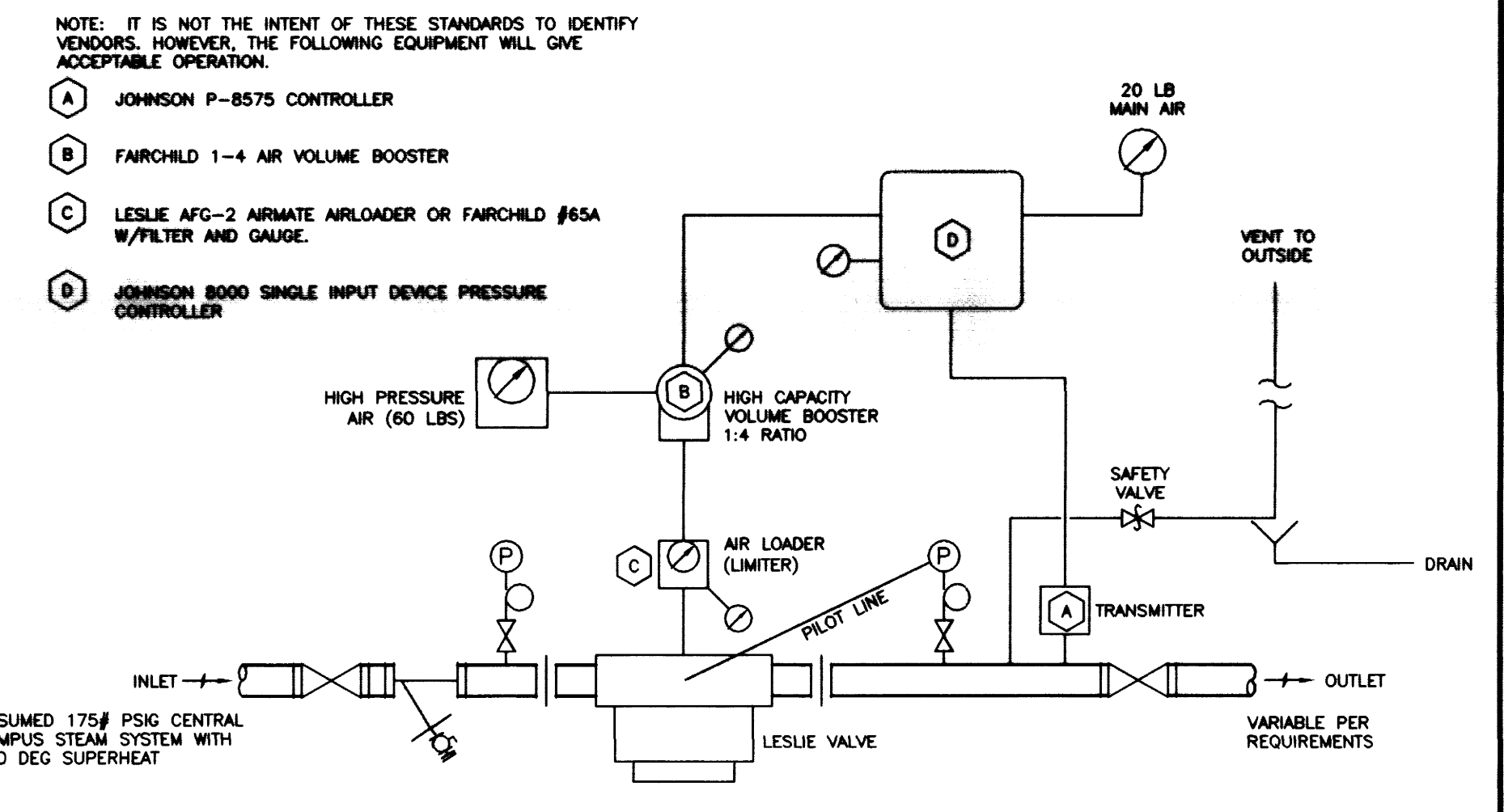
CONTROL VALVE SCHEDULE

SYM.	MFR.	TYPE	SERVICE	GPM - LB/HR	STEAM INLET PRESS (PSI)	DESIGN P.D. (PSI)	DESIGN P.D. (FT)	DESIGN Cv	ACTUAL Cv	ACTUAL P.D. (PSI)	ACTUAL P.D. (FT)	RANGE - ABILITY	MIN. CLOSE OFF PRESS. (PSI)	RECOMM. OPER. P.D. (PSI)	RATED PRESS. (PSI)	REM.
CV-1	JAMESBURY	*1	CONDENSER WATER	1,950	---	5.2	12.0	853.7	8.00	880.0	4.9	11.3	50.0	75	300	COOLING TOWER *2
CV-2	JAMESBURY	*1	CHILLED WATER	2,400	---	7.0	16.0	909.9	8.00	880.0	7.4	17.1	50.0	75	300	CHILLER EVAP.
CV-3	JAMESBURY	*1	CONDENSER WATER	4,500	---	12.8	29.5	1256.5	12.00	1510.0	8.9	20.4	50.0	75	300	CHILLER COND. *2

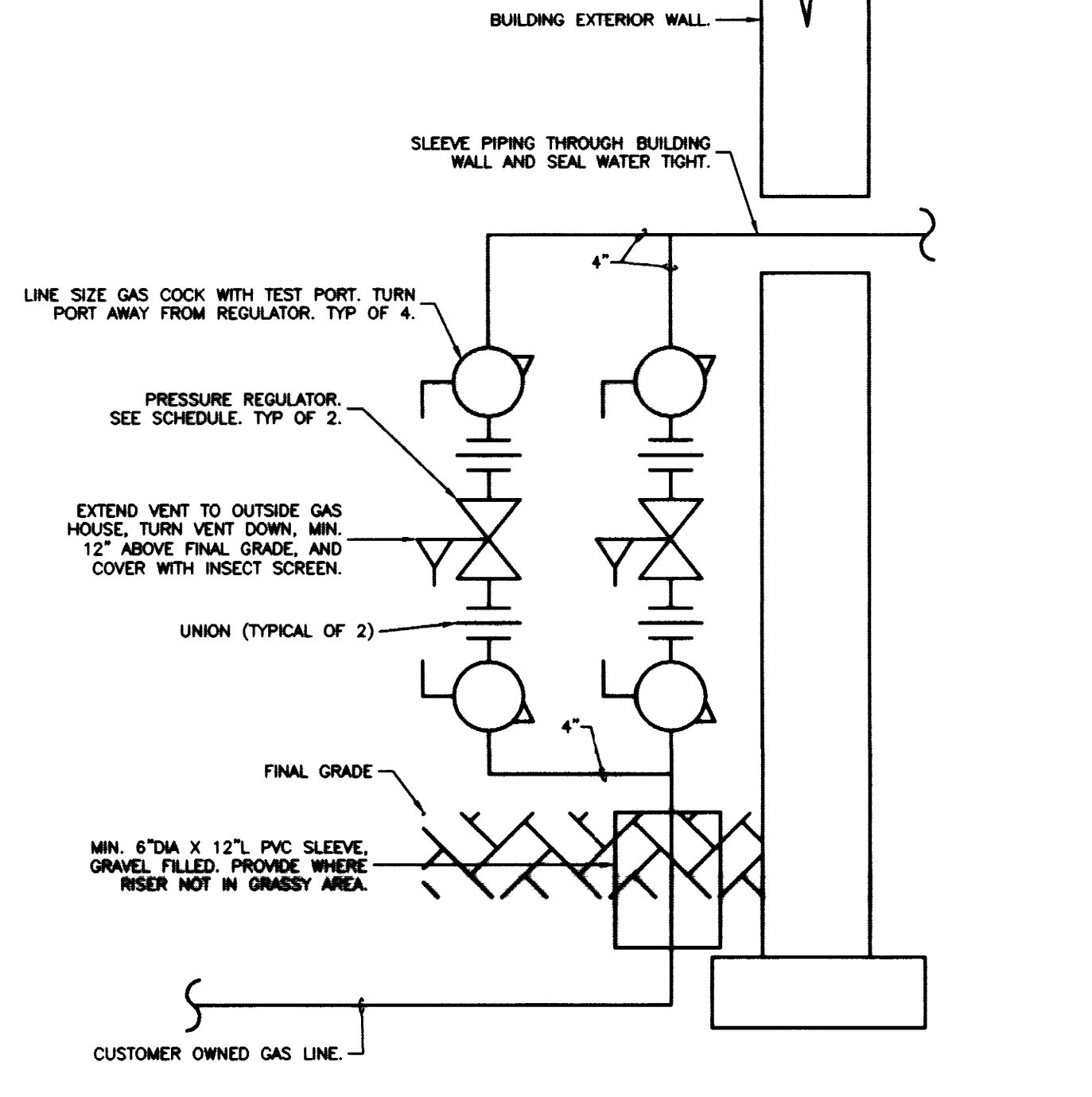
NOTES:
 *1 2-WAY R-SERIES ROTARY EQUAL PERCENTAGE.
 *2 PROVIDE "Q-TRAM" SELF-CLEANING OPTION.



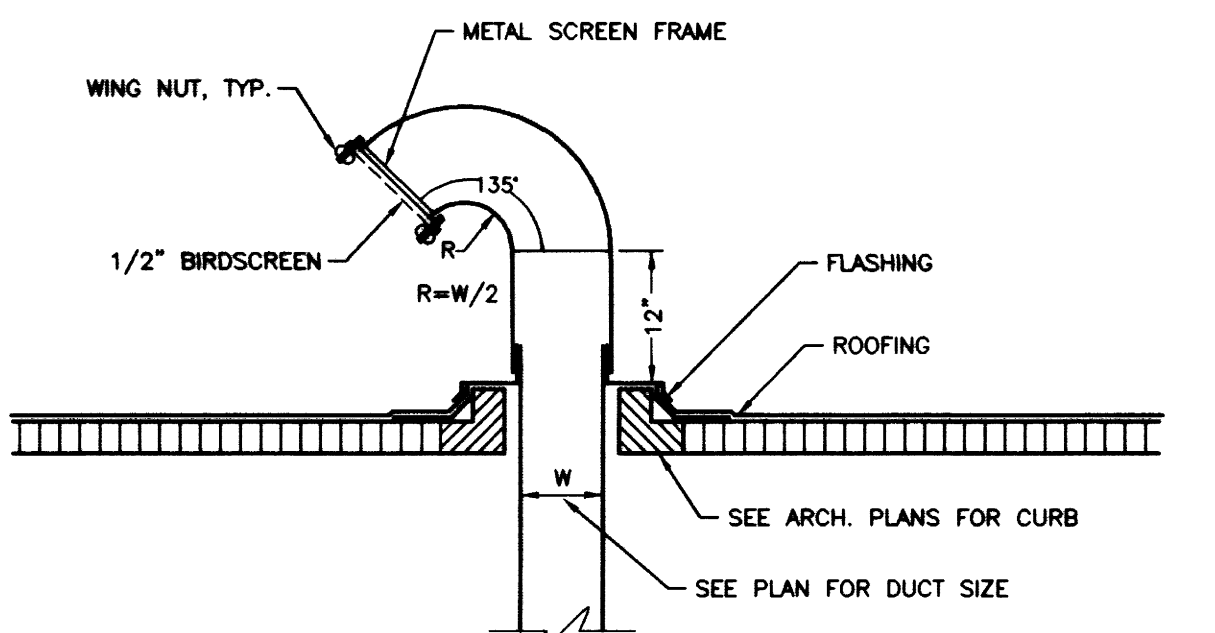
CONCRETE PAD DETAIL
NO SCALE



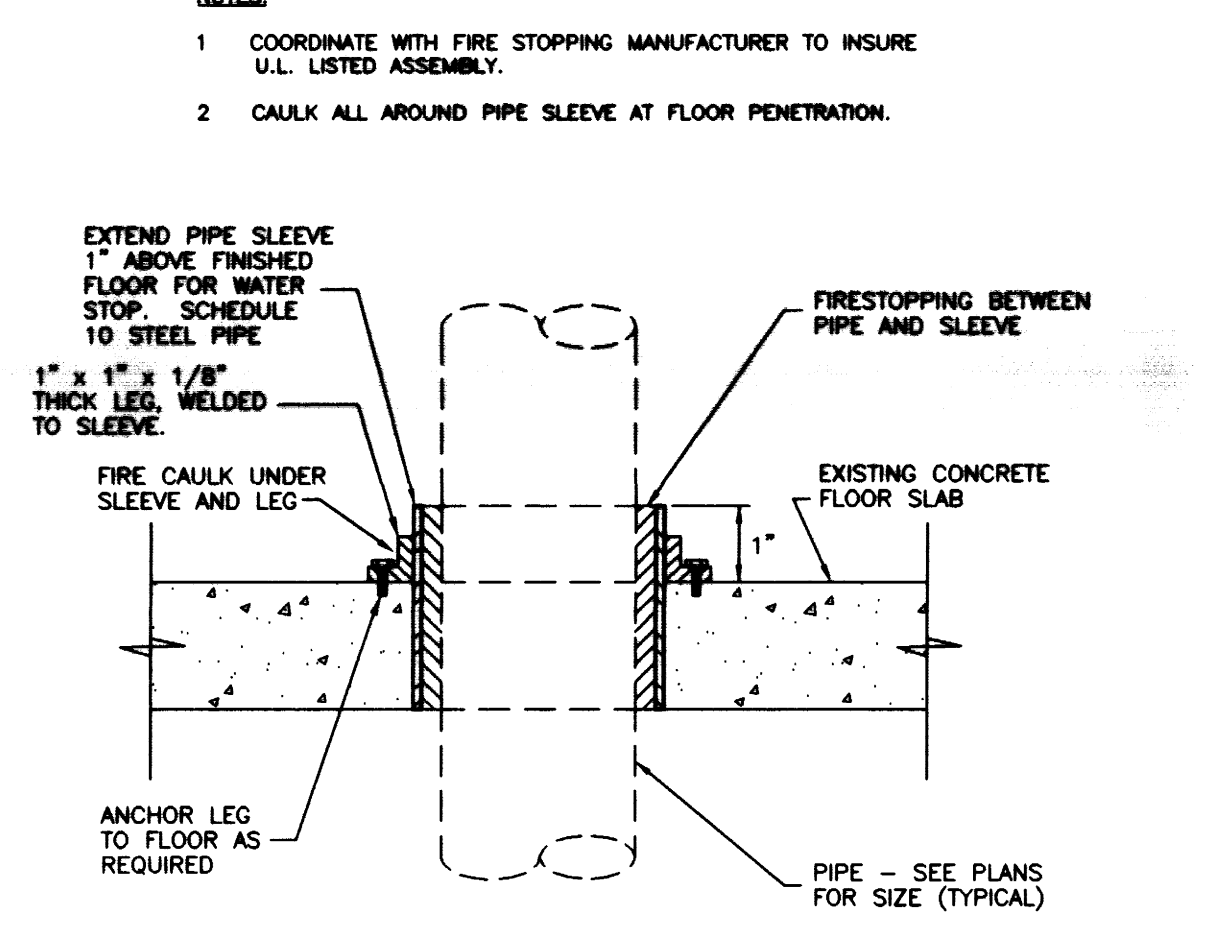
STANDARD STEAM PRESSURE REDUCING SYSTEM (CONTROL)
NO SCALE



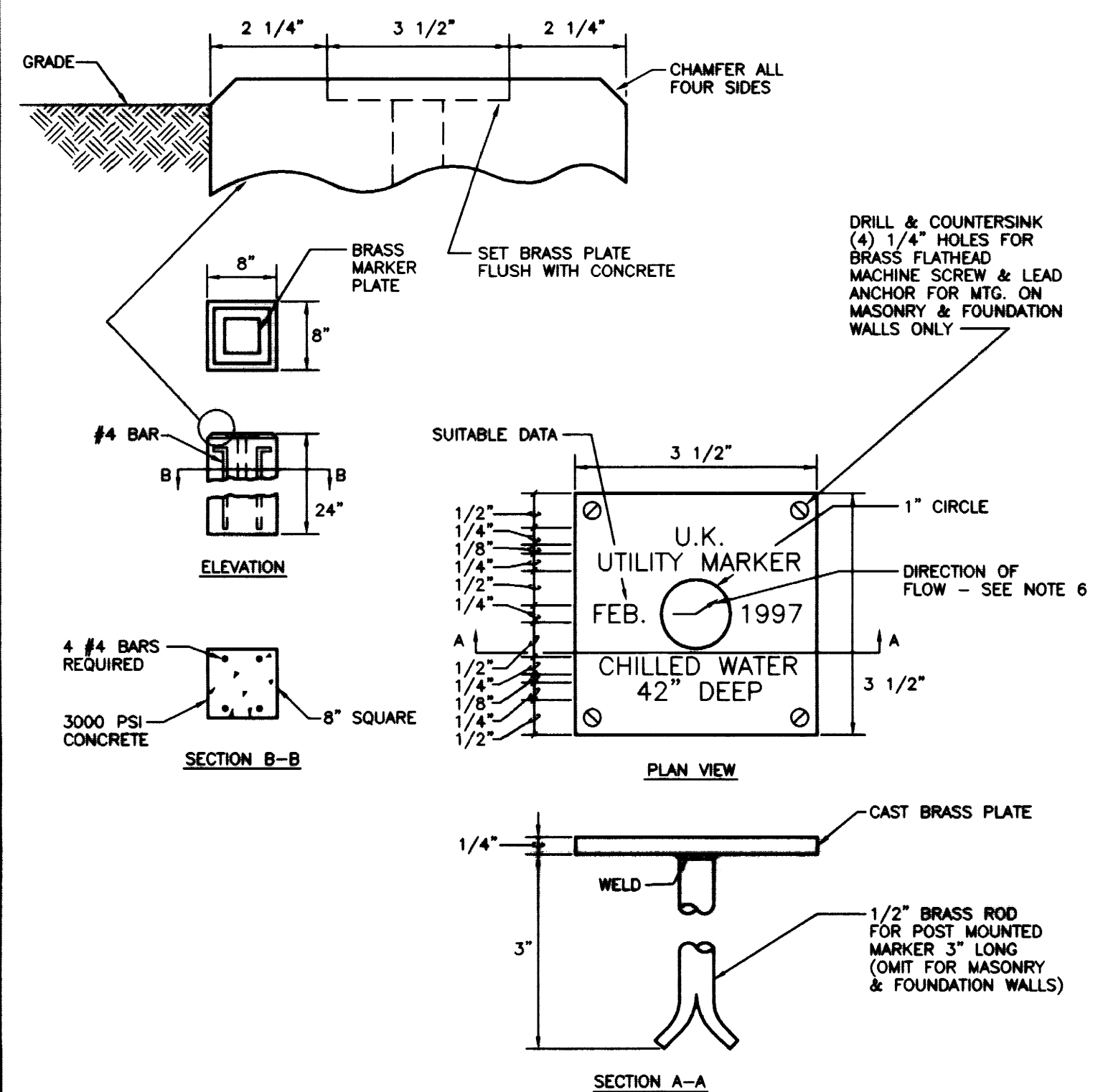
NATURAL GAS PRESSURE REGULATOR AT EXTERIOR WALL
NO SCALE



GOOSENECK DETAIL
NO SCALE

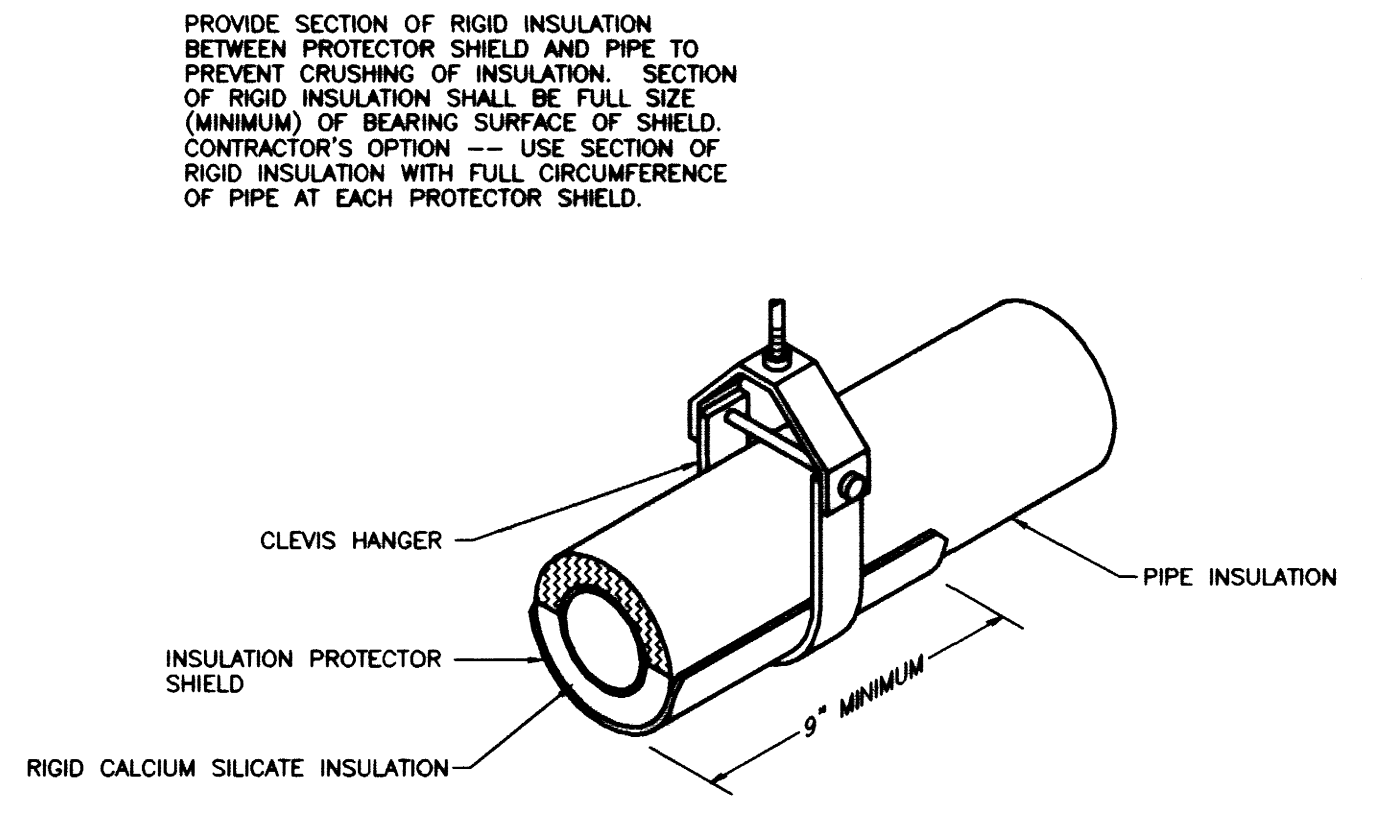


WATER STOP SLEEVE DETAIL FOR PIPING PASSING THRU EXISTING CONCRETE FLOOR SLAB
NO SCALE

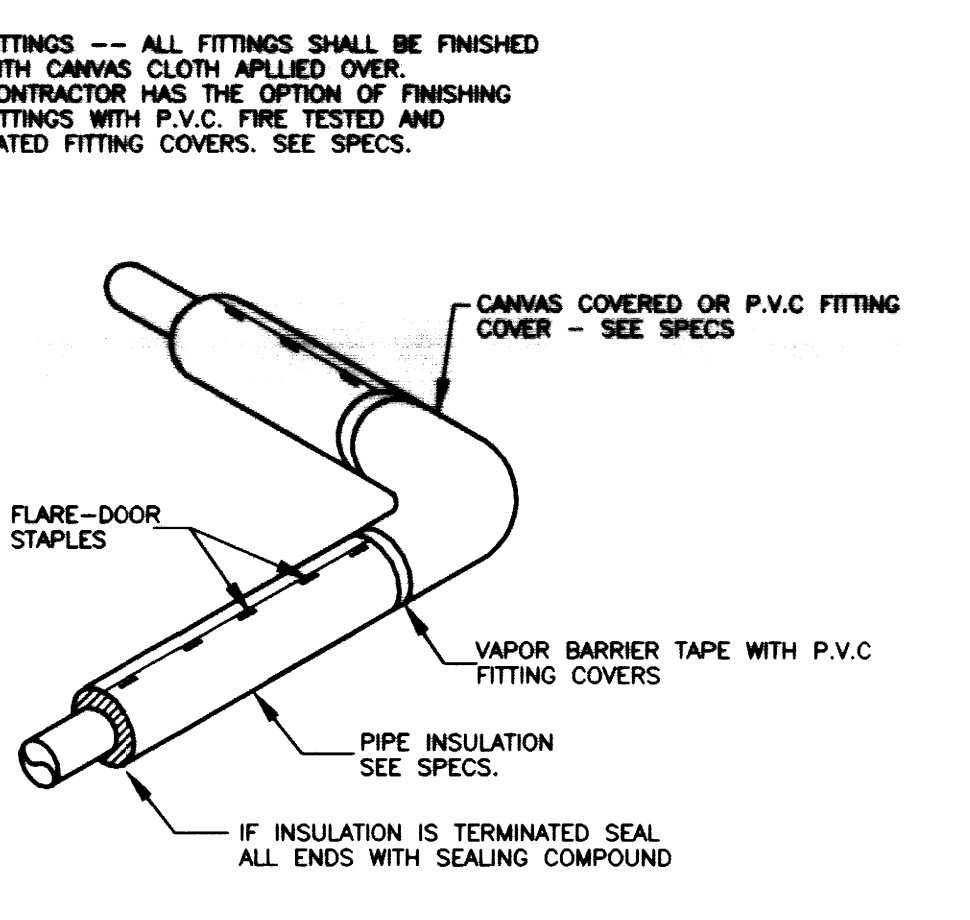


UTILITY SERVICE MARKER DETAIL
NO SCALE

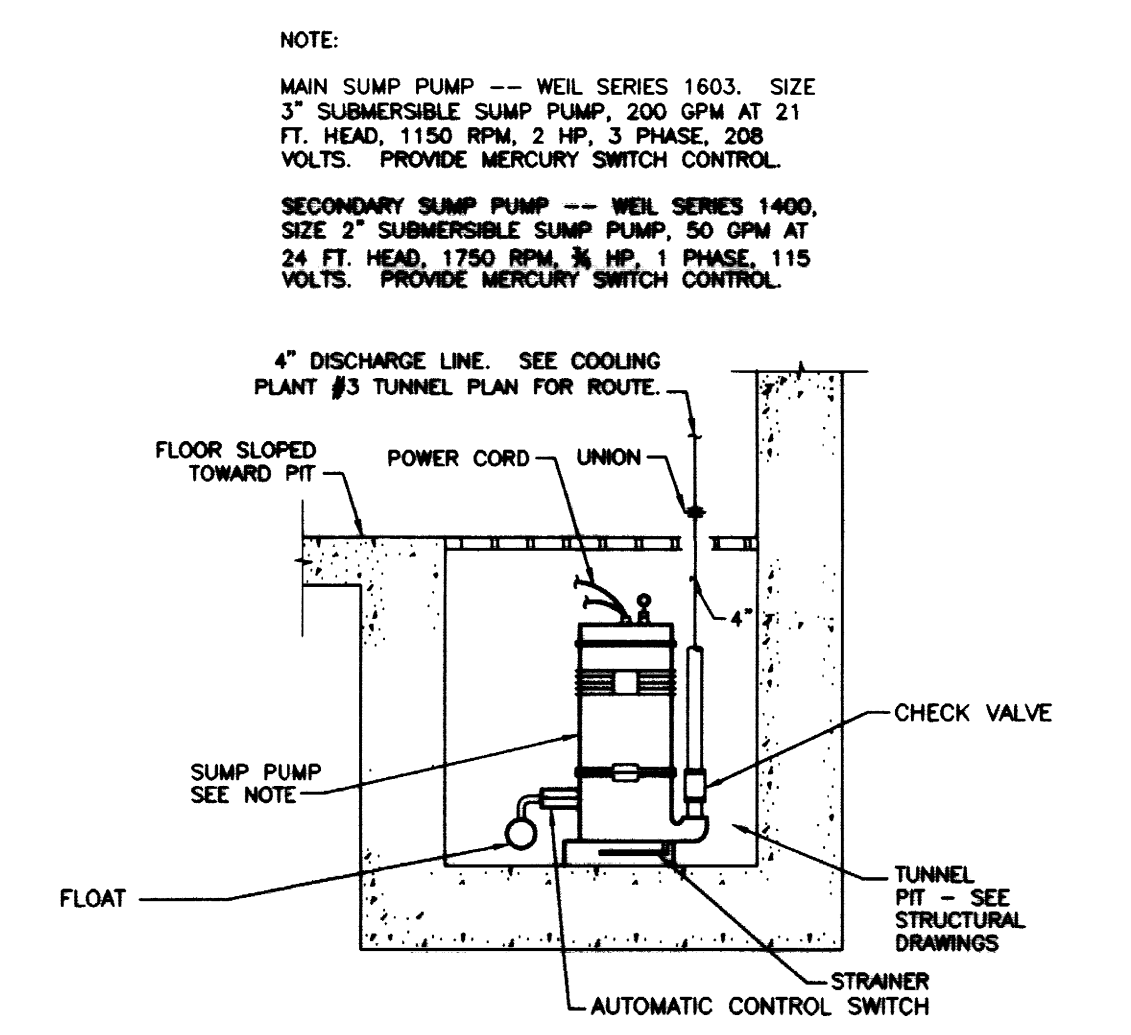
NOTES:
 1. MARKERS SHALL BE LOCATED WHERE INDICATED ON DRAWINGS.
 2. BRASS MARKERS SHALL BE CAST BY BRUCE FOX COMPANY, NEW ALBANY, INDIANA, OR EQUAL.
 3. ALL LETTERING SHALL BE OF THE RAISED TYPE. LETTERING SHOWN ON MARKER IS FOR EXAMPLE ONLY. LETTERING TO BE RAISED 1/8".
 4. AT THE CONTRACTOR'S OPTION, ONE MARKER MAY BE USED FOR COMPANION MAINS THAT ARE LOCATED CLOSE TOGETHER SUCH AS STEAM AND CONDENSATE PUMP DISCHARGE PIPING OR CHILLED WATER SUPPLY AND CHILLED WATER RETURN PIPING. PROVIDE ARROW FOR EACH MAIN.
 5. CONTRACTOR SHALL FURNISH A COMPLETE LIST FOR APPROVAL OF ALL MARKERS SHOWING NAMES, ARROWS, DEPTH AND DATE.
 6. WHEN UTILITY MARKERS ARE INSTALLED OVER LINES AT A POINT OF DIRECTION CHANGE, THE ARROW ON THE MARKERS SHALL BE "ANGLED" AS REQUIRED TO IMPLY THIS ROUTING.



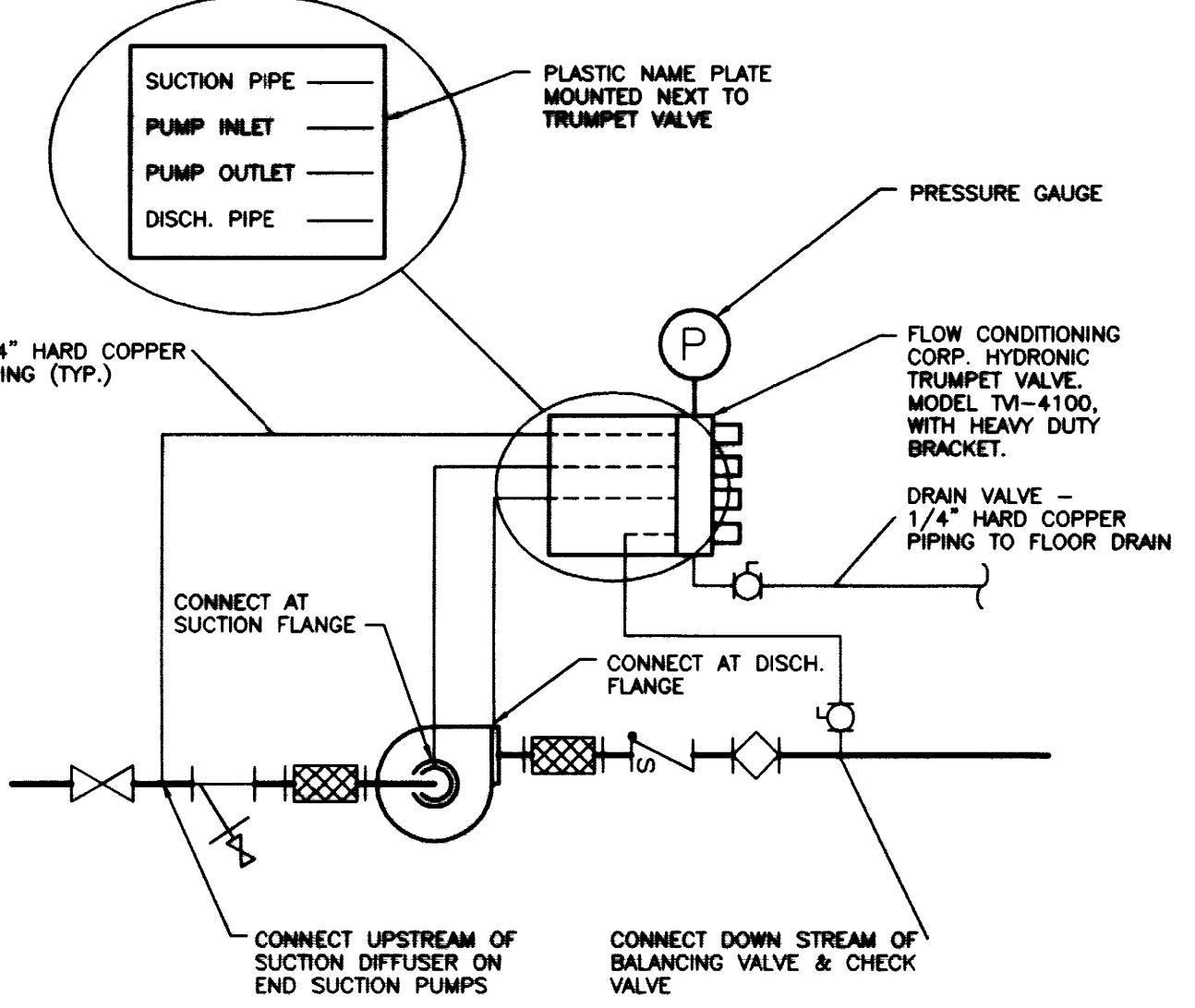
TYP. PIPE SUPPORT DETAIL WITH SHIELD
NO SCALE



TYPICAL DETAIL OF INSULATION AT PIPE FITTING
NO SCALE



TUNNEL SUMP PUMP DETAIL
NO SCALE



TYPICAL PUMP PRESSURE GAUGE INSTALLATION DETAIL
NO SCALE

RECORD DRAWINGS DATE 11/10/03
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STAGGS and Fisher
 Consulting Engineers, Inc.
 504 Luckhart Drive
 Lexington, Kentucky 40517
 (606) 254-6662

UNIVERSITY OF KENTUCKY
 LEXINGTON, KENTUCKY

H.V.A.C. DETAILS

UTILITY UPGRADE - PHASE 1
 UNIVERSITY OF KENTUCKY
 LEXINGTON, KENTUCKY

DATE: DECEMBER 2000
 DRAWN BY: CCK
 CHECKED BY: CCK
 REVISIONS:
 1 2/20/01 ADDITIONAL
 2 6/20/01 STEAM PIP
 3 12/6/01 GAS PIPING
 4 3/7/02 ADD DRIP PAN

SHEET NUMBER
8.9.2

PROJECT NUMBER
 99024.02

DATE: 11/10/03

CODED NOTES:

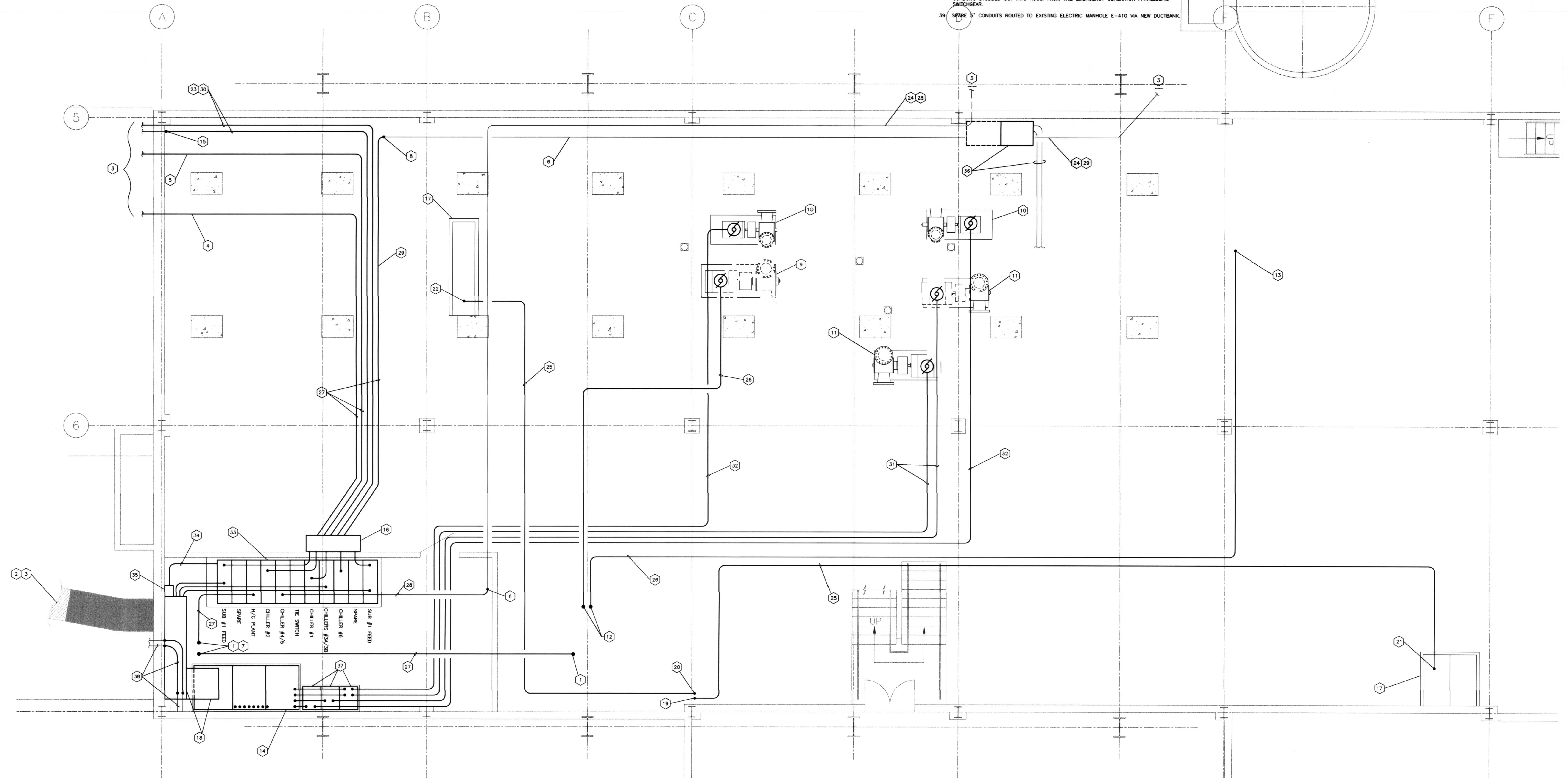
- 1 TO NEW 15KV SWITCHES ON FIRST FLOOR FOR NEW PRIMARY FEEDS TO THE UNIT SUBSTATION ABOVE.
- 2 TO NEW CHILLER TRANSFORMER OUTSIDE BUILDING.
- 3 SEE SHEET 9.1.3 FOR CONTINUATION.
- 4 NEW PRIMARY FEED TO CHILLER #1 TRANSFORMER.
- 5 NEW PRIMARY FEED TO CHILLER #2 TRANSFORMER.
- 6 EXISTING CONDUIT FOR CHILLER #4/5 TRANSFORMER PRIMARY TO BE REUSED. INTERCEPT AND EXTEND CONDUIT TO NEW 15KV SWITCHES.
- 7 SPLICE EXISTING FEED TO UNIT SUBSTATION ON FIRST FLOOR AND TEMPORARILY FEED SUBSTATION UNTIL NEW 15KV SWITCHBOARD IS IN PLACE AND OPERATIONAL. THEN RECONNECT SUBSTATION TO NEW SWITCH AS INDICATED.
- 8 EXISTING CONDUIT FOR CHILLER #6 TRANSFORMER TO BE REUSED. INTERCEPT AND EXTEND CONDUIT TO NEW 15KV SWITCHBOARD.
- 9 NEW SECONDARY CHILL WATER PUMP, PU-2, 300 HP, 480 V, 3 #.
- 10 NEW PRIMARY CHILL WATER PUMP, PU-1, 50 HP, 480 V, 3 #.
- 11 NEW COOLING TOWER PUMP, PU-3, 200 HP, 480 V, 3 #.
- 12 UP TO PUMP VARIABLE SPEED DRIVE ON FIRST FLOOR. SEE SHEET 9.1.3 FOR LOCATION.
- 13 UP TO EXISTING SWITCHBOARD P ON FIRST FLOOR.
- 14 NEW 480 VOLT SWITCHBOARD "MDP" FOR NEW CHILLER LOADS.
- 15 EXTEND EXISTING SPARE CONDUIT FROM MANHOLE #409 TO NEW 15KV SWITCHBOARD.
- 16 NEW PULL BOX MOUNTED ON WALL TO FACILITATE CABLING FROM 15KV SWITCHES.
- 17 EXISTING PUMP MOTOR CONTROL CENTER.
- 18 NEW RECTANGULAR WIREWAY MOUNTED TO WALL TO ACCOMMODATE CABLING FROM TRANSFORMER DUCTBANK OUTSIDE OF BUILDING. ATTACH TO HIGH HAT FROM 480 VOLT SWITCHBOARD TO FACILITATE PASSING OF CABLING TO SWITCHBOARD.

CODED NOTES:

- 19 UP TO NEW MOTOR CONTROL CENTER, MCC-9A, ON MEZZANINE LEVEL. SEE SHEET 9.1.5 FOR LOCATION.
- 20 UP TO NEW MOTOR CONTROL CENTER, MCC-9B, ON MEZZANINE LEVEL. SEE SHEET 9.1.5 FOR LOCATION.
- 21 REPLACE SPARE MOTOR STARTER WITH A 400 AMP SWITCH FUSED AT 350 AMPS AND CONNECT TO FEEDER FOR NEW MOTOR CONTROL CENTER MCC-9A.
- 22 REPLACE SPARE SWITCH WITH A 400 AMP SWITCH FUSED AT 350 AMPS AND CONNECT TO FEEDER FOR NEW MOTOR CONTROL CENTER MCC-9B.
- 23 3 #500 MCM (15KV) AND 1 #500 MCM (600V) GROUND IN 5" RIGID CONDUIT.
- 24 3 #4/0'S (15KV) AND 1 #4/0 (600V) GROUND IN EXISTING CONDUIT.
- 25 4 #3/0'S AND 1 #4 GROUND IN EACH OF (2) 2" CONDUITS.
- 26 4 #4/0'S AND 1 #4 GROUND IN EACH OF (2) 2-1/2" CONDUIT.
- 27 3 #4/0'S (15KV) AND 1 #4/0 (600V) GROUND IN 4" RIGID CONDUIT.
- 28 NEW PRIMARY FEED TO CHILLER #4/5 TRANSFORMER.
- 29 NEW PRIMARY FEED TO CHILLER #6 TRANSFORMER.
- 30 NEW INCOMING FEED TO 15KV SWITCHBOARD OUTSIDE BUILDING.
- 31 3 #350 MCM'S AND 1 #2 GROUND IN 2-1/2" CONDUIT.
- 32 4 #2'S AND 1 #6 GROUND IN 1-1/4" CONDUIT.
- 33 NEW 15KV SWITCH LINEUP.
- 34 2 #4/0 BARE GROUNDING CABLES IN 2" CONDUIT TO NEW TRANSFORMER DUCTBANK. CONNECT GROUNDING CABLES TO SWITCHGEAR GROUND BUS, ONE EACH END.
- 35 NEW JUNCTION BOX FOR ROUTING OF GROUNDING CABLES TO DUCTBANK. SIZE AS REQUIRED.
- 36 NEW EXTENSION ONTO EXISTING JUNCTION BOX TO FACILITATE MOVING EXISTING SWITCHGEAR ON FIRST FLOOR. SEE SHEET 9.1.3. SHORTEN EXISTING FEEDER TO MOTOR CONTROL CENTER AS NECESSARY.
- 37 MOTOR STARTERS FOR PUMP UNITS PU-1A, 1B, 3A, & 3B. STARTERS SHALL BE PWRP WITH 2 SETS OF AUXILIARY CONTACTS, COMBINATION DISCONNECT, "AUTO-OFF-HAND" CONTROL SWITCH, AND LED FLOT LIGHTS. STARTERS SHALL BE MOUNTED IN A NEMA RATED CABINET.
- 38 CONNECT EXISTING DUCTBANK CONSISTING OF TWO 5" CONDUITS TO THE EXISTING 5" CONDUITS STUBBED OUT INTO ROOM FROM THE EMERGENCY GENERATOR PARALLELING SWITCHGEAR.
- 39 SPARE 5" CONDUITS ROUTED TO EXISTING ELECTRIC MANHOLE E-410 VIA NEW DUCTBANK.

ROOM SCHEDULE

ROOM NUMBER	ROOM NAME
8008A	EXHIBITOR LOBBY
8008B	EXHIBITOR LOBBY
8008C	EXHIBITOR LOBBY
8008D	EXHIBITOR LOBBY
8008E	EXHIBITOR LOBBY
8008F	EXHIBITOR LOBBY
8008G	EXHIBITOR LOBBY
8008H	EXHIBITOR LOBBY
8008I	EXHIBITOR LOBBY
8008J	EXHIBITOR LOBBY
8008K	EXHIBITOR LOBBY
8008L	EXHIBITOR LOBBY
8008M	EXHIBITOR LOBBY
8008N	EXHIBITOR LOBBY
8008O	EXHIBITOR LOBBY
8008P	EXHIBITOR LOBBY
8008Q	EXHIBITOR LOBBY
8008R	EXHIBITOR LOBBY
8008S	EXHIBITOR LOBBY
8008T	EXHIBITOR LOBBY
8008U	EXHIBITOR LOBBY
8008V	EXHIBITOR LOBBY
8008W	EXHIBITOR LOBBY
8008X	EXHIBITOR LOBBY
8008Y	EXHIBITOR LOBBY
8008Z	EXHIBITOR LOBBY
8009	EXHIBITOR LOBBY
8010	EXHIBITOR LOBBY
8011	EXHIBITOR LOBBY
8012	EXHIBITOR LOBBY
8013	EXHIBITOR LOBBY
8014	EXHIBITOR LOBBY
8015	EXHIBITOR LOBBY
8016	EXHIBITOR LOBBY
8017	EXHIBITOR LOBBY
8018	EXHIBITOR LOBBY
8019	EXHIBITOR LOBBY
8020	EXHIBITOR LOBBY
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8060	EXHIBITOR LOBBY
8061	EXHIBITOR LOBBY
8062	EXHIBITOR LOBBY
8063	EXHIBITOR LOBBY



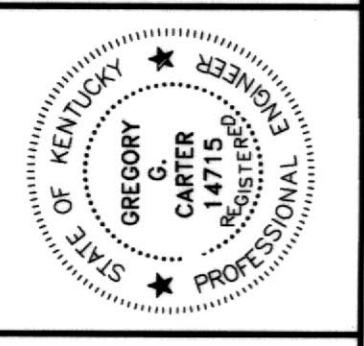
POWER PLAN - NEW WORK - BASEMENT
SHEET SCALE: 1/4" = 1'-0"

NOT FOR CONSTRUCTION

POWER - NEW WORK - BASEMENT PLAN
PRIMARY CARE / OUTPATIENT
DIAGNOSTIC TREATMENT CENTER
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY

SHT.	PROJECT TITLE
DATE:	DECEMBER, 1999
DRAWN BY:	WPK
CHECKED BY:	GGC
REVISED:	
DATE:	10/16/01
ADDENDUM #	2
REVISION #	2
SHEET NUMBER	9.1.2
PROJECT NUMBER	99024.01
SF PROJECT NUMBER	99600

RECORD DRAWINGS DATE 11/10/03
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STAGGS & FISHER CONSULTING ENGINEERS, INC.

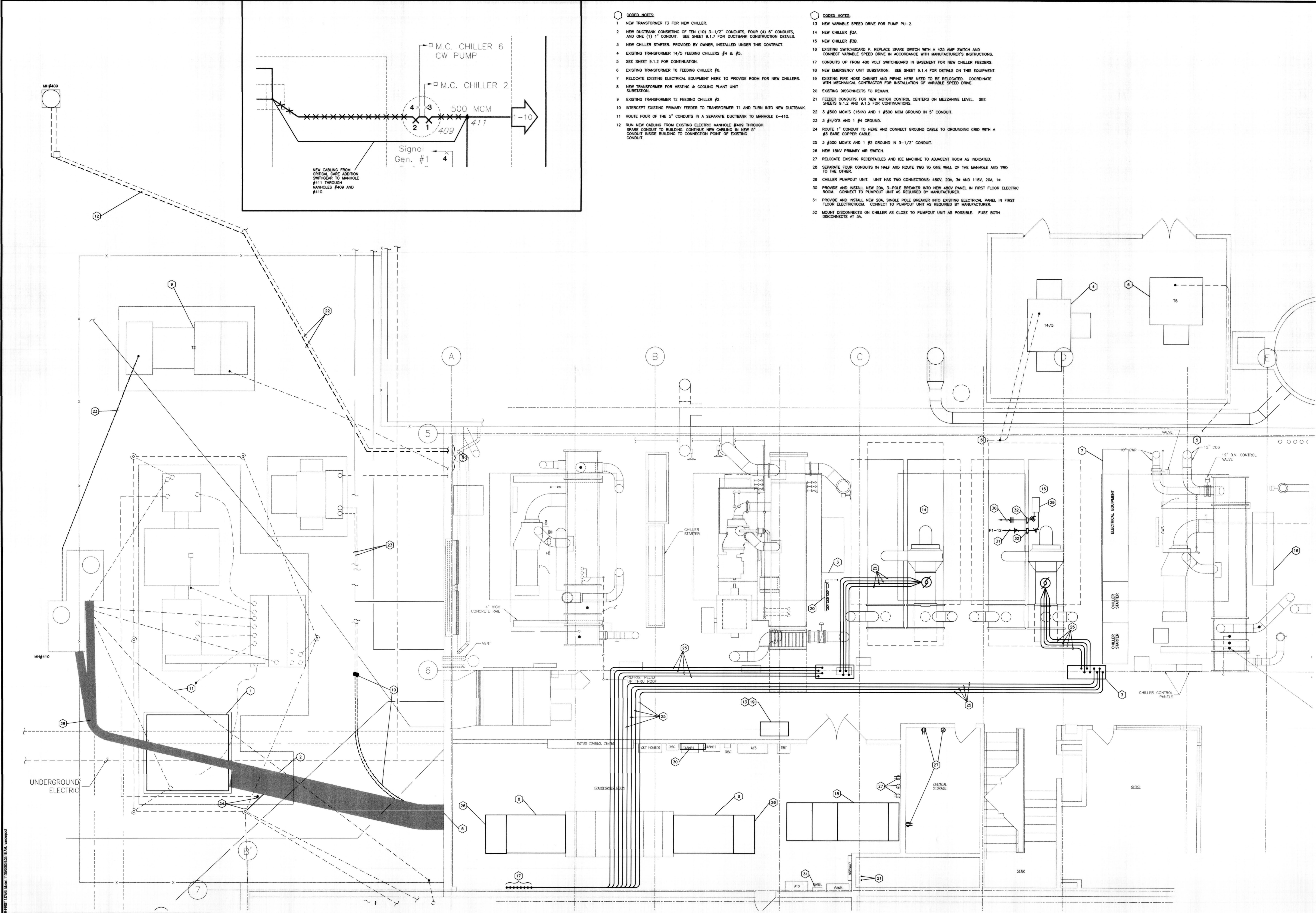
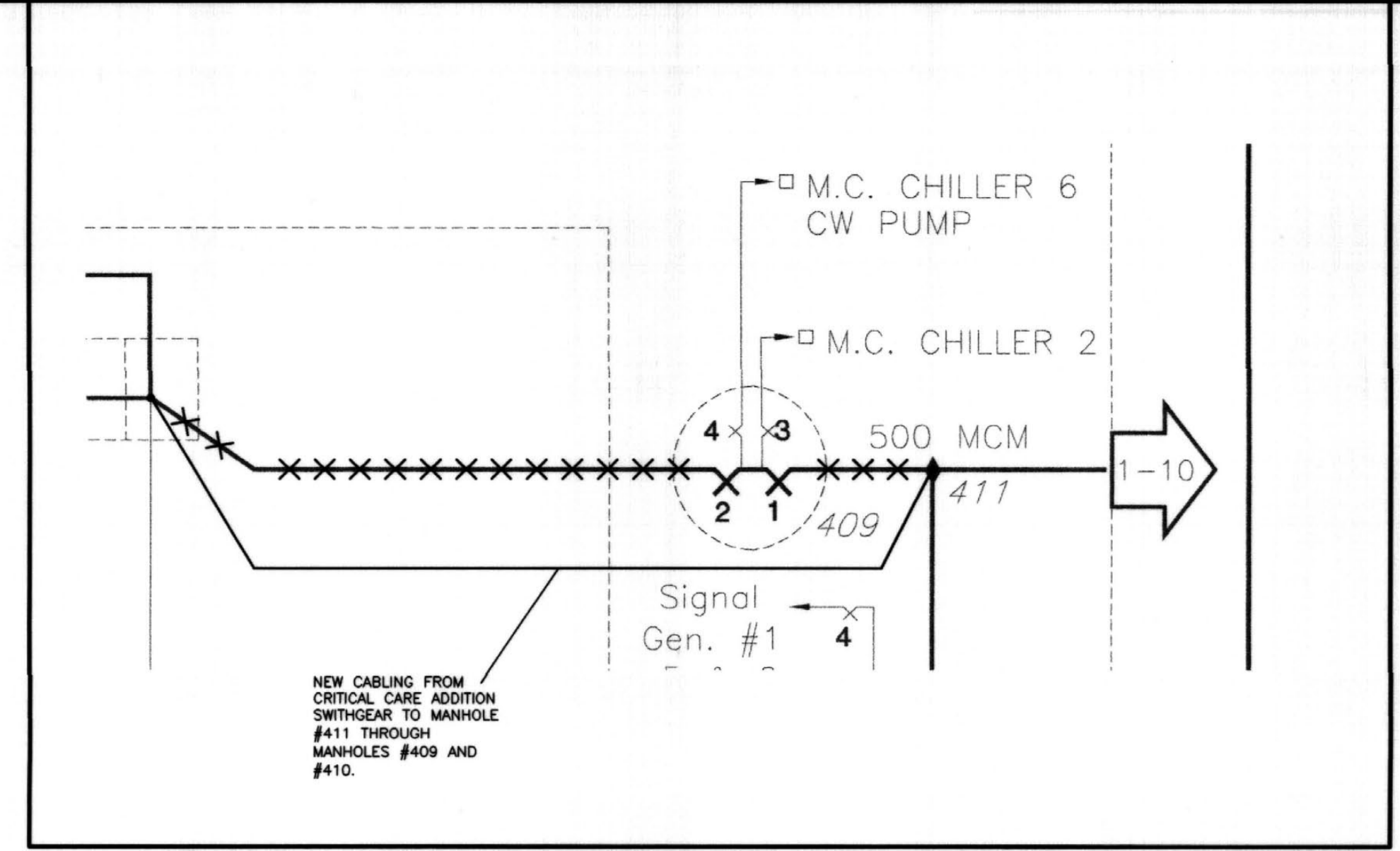


Robert A. M. Stiem
Architects

FAILURE TO ADHERE TO THESE DOCUMENTS OR THE DESIGN PROFESSIONAL'S WORK SHALL BE AT THE USER'S SOLE RISK. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE DESIGN PROFESSIONAL'S LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED HEREIN. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE DESIGN PROFESSIONAL'S LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED HEREIN.

- CODED NOTES:**
- 1 NEW TRANSFORMER T3 FOR NEW CHILLER.
 - 2 NEW DUCTBANK CONSISTING OF TEN (10) 3-1/2" CONDUITS, FOUR (4) 5" CONDUITS, AND ONE (1) 1" CONDUIT. SEE SHEET 9.1.7 FOR DUCTBANK CONSTRUCTION DETAILS.
 - 3 NEW CHILLER STARTER, PROVIDED BY OWNER, INSTALLED UNDER THIS CONTRACT.
 - 4 EXISTING TRANSFORMER T4/S FEEDING CHILLERS #4 & #5.
 - 5 SEE SHEET 9.1.2 FOR CONTINUATION.
 - 6 EXISTING TRANSFORMER T6 FEEDING CHILLER #6.
 - 7 RELOCATE EXISTING ELECTRICAL EQUIPMENT HERE TO PROVIDE ROOM FOR NEW CHILLERS.
 - 8 NEW TRANSFORMER FOR HEATING & COOLING PLANT UNIT SUBSTATION.
 - 9 EXISTING TRANSFORMER T2 FEEDING CHILLER #2.
 - 10 INTERCEPT EXISTING PRIMARY FEEDER TO TRANSFORMER T1 AND TURN INTO NEW DUCTBANK.
 - 11 ROUTE FOUR OF THE 5" CONDUITS IN A SEPARATE DUCTBANK TO MANHOLE E-410.
 - 12 RUN NEW CABLING FROM EXISTING ELECTRIC MANHOLE #409 THROUGH SPARE CONDUIT TO BUILDING. CONTINUE NEW CABLING IN NEW 5" CONDUIT INSIDE BUILDING TO CONNECTION POINT OF EXISTING CONDUIT.
 - 13 NEW VARIABLE SPEED DRIVE FOR PUMP PU-2.
 - 14 NEW CHILLER #3A.
 - 15 NEW CHILLER #3B.
 - 16 EXISTING SWITCHBOARD P. REPLACE SPARE SWITCH WITH A 425 AMP SWITCH AND CONNECT VARIABLE SPEED DRIVE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 - 17 CONDUITS UP FROM 480 VOLT SWITCHBOARD IN BASEMENT FOR NEW CHILLER FEEDERS.
 - 18 NEW EMERGENCY UNIT SUBSTATION. SEE SHEET 9.1.4 FOR DETAILS ON THIS EQUIPMENT.
 - 19 EXISTING FIRE HOSE CABINET AND PIPING HERE NEED TO BE RELOCATED. COORDINATE WITH MECHANICAL CONTRACTOR FOR INSTALLATION OF VARIABLE SPEED DRIVE.
 - 20 EXISTING DISCONNECTS TO REMAIN.
 - 21 FEEDER CONDUITS FOR NEW MOTOR CONTROL CENTERS ON MEZZANINE LEVEL. SEE SHEETS 9.1.2 AND 9.1.5 FOR CONTINUATIONS.
 - 22 3 #500 MCM'S (15KV) AND 1 #500 MCM GROUND IN 5" CONDUIT.
 - 23 3 #4/0'S AND 1 #4 GROUND.
 - 24 ROUTE 1" CONDUIT TO HERE AND CONNECT GROUND CABLE TO GROUNDING GRID WITH A #3 BARE COPPER CABLE.
 - 25 3 #500 MCM'S AND 1 #2 GROUND IN 3-1/2" CONDUIT.
 - 26 NEW 15KV PRIMARY AIR SWITCH.
 - 27 RELOCATE EXISTING RECEPTACLES AND ICE MACHINE TO ADJACENT ROOM AS INDICATED.
 - 28 SEPARATE FOUR CONDUITS IN HALF AND ROUTE TWO TO ONE WALL OF THE MANHOLE AND TWO TO THE OTHER.
 - 29 CHILLER PUMP/OUT UNIT. UNIT HAS TWO CONNECTIONS: 480V, 20A, 3Ø AND 115V, 20A, 1Ø.
 - 30 PROVIDE AND INSTALL NEW 20A, 3-POLE BREAKER INTO NEW 480V PANEL IN FIRST FLOOR ELECTRIC ROOM. CONNECT TO PUMP/OUT UNIT AS REQUIRED BY MANUFACTURER.
 - 31 PROVIDE AND INSTALL NEW 20A, SINGLE POLE BREAKER INTO EXISTING ELECTRICAL PANEL IN FIRST FLOOR ELECTRIC ROOM. CONNECT TO PUMP/OUT UNIT AS REQUIRED BY MANUFACTURER.
 - 32 MOUNT DISCONNECTS ON CHILLER AS CLOSE TO PUMP/OUT UNIT AS POSSIBLE. FUSE BOTH DISCONNECTS AT 5A.

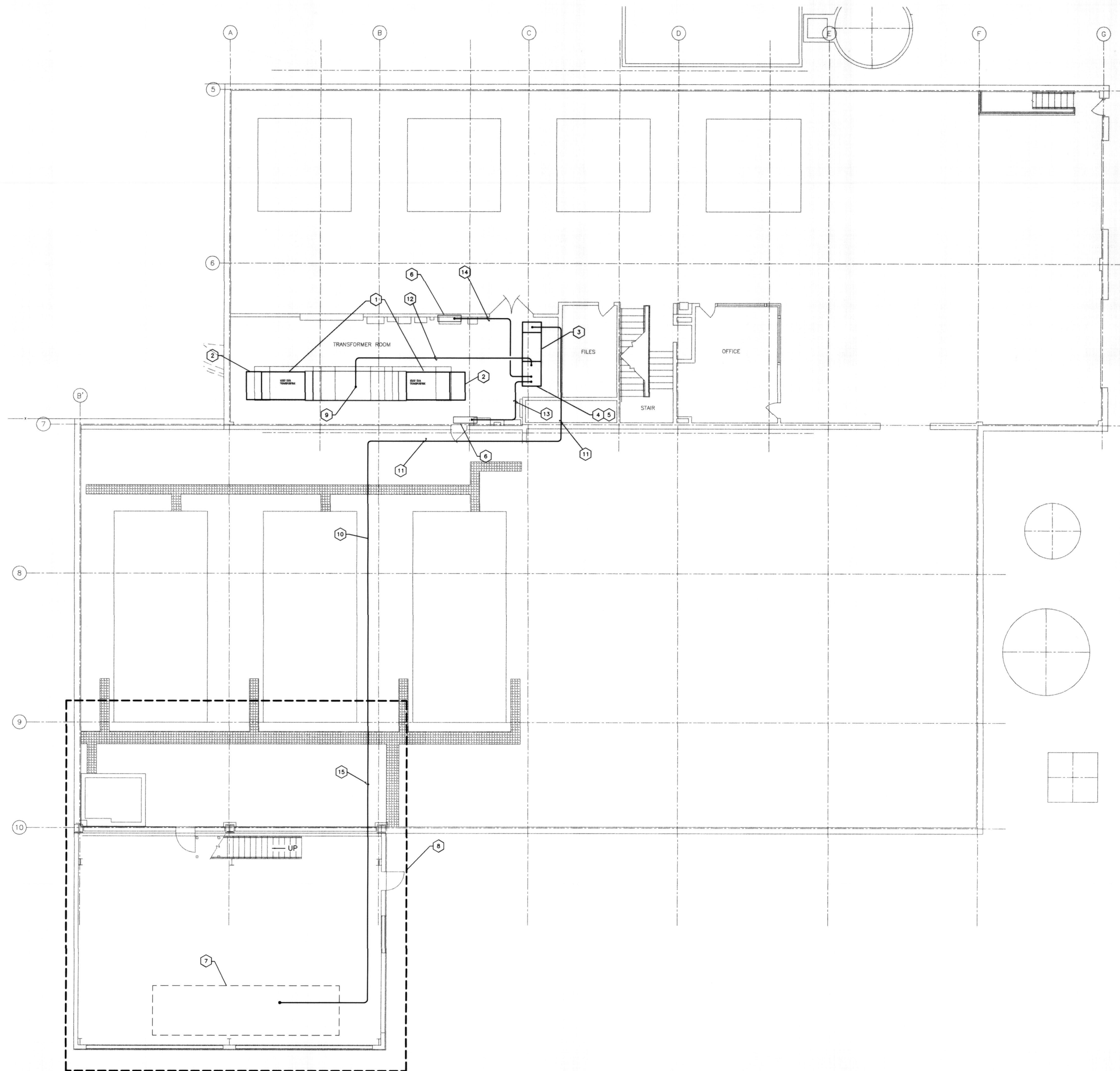
- CODED NOTES:**
- 13 NEW VARIABLE SPEED DRIVE FOR PUMP PU-2.
 - 14 NEW CHILLER #3A.
 - 15 NEW CHILLER #3B.
 - 16 EXISTING SWITCHBOARD P. REPLACE SPARE SWITCH WITH A 425 AMP SWITCH AND CONNECT VARIABLE SPEED DRIVE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
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 - 19 EXISTING FIRE HOSE CABINET AND PIPING HERE NEED TO BE RELOCATED. COORDINATE WITH MECHANICAL CONTRACTOR FOR INSTALLATION OF VARIABLE SPEED DRIVE.
 - 20 EXISTING DISCONNECTS TO REMAIN.
 - 21 FEEDER CONDUITS FOR NEW MOTOR CONTROL CENTERS ON MEZZANINE LEVEL. SEE SHEETS 9.1.2 AND 9.1.5 FOR CONTINUATIONS.
 - 22 3 #500 MCM'S (15KV) AND 1 #500 MCM GROUND IN 5" CONDUIT.
 - 23 3 #4/0'S AND 1 #4 GROUND.
 - 24 ROUTE 1" CONDUIT TO HERE AND CONNECT GROUND CABLE TO GROUNDING GRID WITH A #3 BARE COPPER CABLE.
 - 25 3 #500 MCM'S AND 1 #2 GROUND IN 3-1/2" CONDUIT.
 - 26 NEW 15KV PRIMARY AIR SWITCH.
 - 27 RELOCATE EXISTING RECEPTACLES AND ICE MACHINE TO ADJACENT ROOM AS INDICATED.
 - 28 SEPARATE FOUR CONDUITS IN HALF AND ROUTE TWO TO ONE WALL OF THE MANHOLE AND TWO TO THE OTHER.
 - 29 CHILLER PUMP/OUT UNIT. UNIT HAS TWO CONNECTIONS: 480V, 20A, 3Ø AND 115V, 20A, 1Ø.
 - 30 PROVIDE AND INSTALL NEW 20A, 3-POLE BREAKER INTO NEW 480V PANEL IN FIRST FLOOR ELECTRIC ROOM. CONNECT TO PUMP/OUT UNIT AS REQUIRED BY MANUFACTURER.
 - 31 PROVIDE AND INSTALL NEW 20A, SINGLE POLE BREAKER INTO EXISTING ELECTRICAL PANEL IN FIRST FLOOR ELECTRIC ROOM. CONNECT TO PUMP/OUT UNIT AS REQUIRED BY MANUFACTURER.
 - 32 MOUNT DISCONNECTS ON CHILLER AS CLOSE TO PUMP/OUT UNIT AS POSSIBLE. FUSE BOTH DISCONNECTS AT 5A.



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 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 CONTRACTORS CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

RECORD DRAWINGS DATE 11/10/03
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STAGGS & FISHER CONSULTING ENGINEERS, INC.

POWER PLAN - FIRST FLOOR - AREA 1
SHEET SCALE: 1/4" = 1'-0"



- CODED NOTES:**
- 1 NEW 1000 KVA, 12470 VOLT DELTA/480-277 VOLT WYE, TRANSFORMERS FOR HEATING & COOLING PLANT UNIT SUBSTATION.
 - 2 NEW 15KV SWITCH.
 - 3 NEW 500 KVA, 4160 VOLT DELTA/480-277 VOLT WYE, PAD-MOUNTED TRANSFORMER.
 - 4 1000 AMP TRANSFORMER SECONDARY BREAKER.
 - 5 EMERGENCY DISTRIBUTION PANELBOARD.
 - 6 EXISTING TRANSFER SWITCH.
 - 7 EMERGENCY GENERATOR PARALLELING SWITCHGEAR ON SECOND FLOOR. PROVIDE NEW FEEDER BREAKER FOR NEW SUBSTATION.
 - 8 EMERGENCY GENERATOR SHED BEING INSTALLED UNDER THE EMERGENCY DISTRIBUTION UPGRADE PROJECT.
 - 9 CONNECT FEEDER FROM EMERGENCY DISTRIBUTION PANELBOARD DIRECTLY TO BUSS OF UNIT SUBSTATION. SEE RISER DIAGRAM FOR ADDITIONAL DETAILS.
 - 10 PRIMARY FEED TO NEW EMERGENCY POWER UNIT SUBSTATION FROM GENERATOR PARALLELING SWITCHGEAR ON SECOND FLOOR OF GENERATOR SHED ADDITION.
 - 11 3 #6 (5KV) AND 1 #6 GROUND IN 4" CONDUIT.
 - 12 4 #500 MCM'S AND 1 #1/0 GROUND IN EACH OF (2) 3-1/2" CONDUITS.
 - 13 3 #2/0'S AND 1 #6 GROUND IN EACH OF (2) 2" CONDUITS.
 - 14 3 #3/0'S AND 1 #4 GROUND IN 2" CONDUIT.
 - 15 3 #6 (5KV) AND 1 #6 GROUND IN EXISTING 4" CONDUIT TO GENERATOR PARALLELING SWITCHGEAR.

POWER PLAN - FIRST FLOOR AREA 2
SHEET SCALE: 1/8" = 1'-0"

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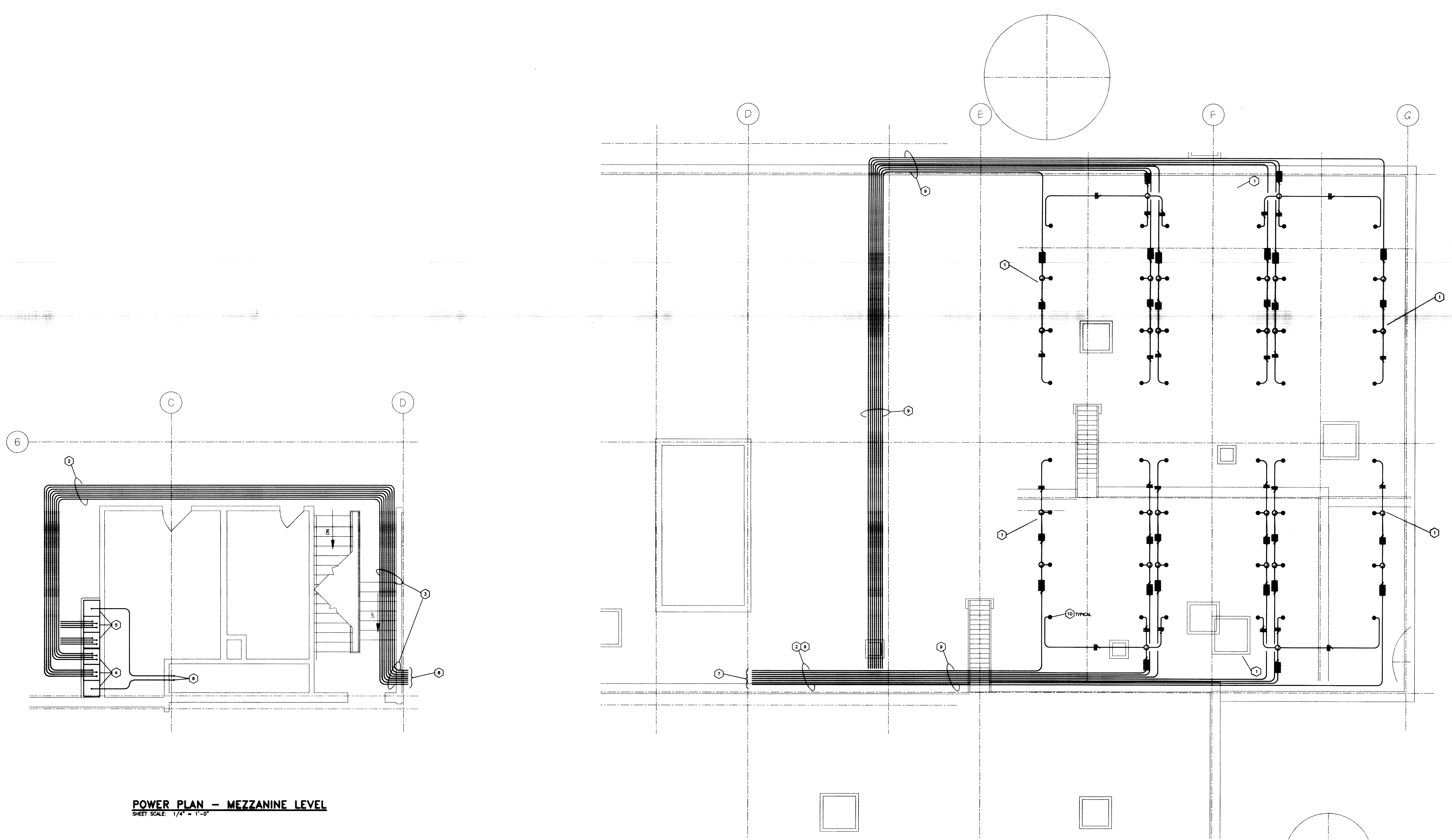
RECORD DRAWINGS DATE 11/10/03
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FAILURE TO ADHERE BY DESIGN DOCUMENT OR TO OBTAIN GUIDANCE FROM THE ENGINEER SHALL BE AT THE USER'S RISK AND ALL RESPONSIBILITY FOR ANY DAMAGE TO PERSONS OR PROPERTY SHALL BE ASSUMED BY THE USER. THE ENGINEER'S LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED AND DOES NOT INCLUDE THE DESIGN OF STRUCTURES WHICH ARE NOT SPECIFICALLY IDENTIFIED ON THE DRAWINGS.

POWER - NEW WORK - 1ST FLOOR AREA 2 PLAN
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE
DATE: DECEMBER, 2000
DRAWN BY: WPM
CHECKED BY: GGC
REVISED: DATE
SHEET NUMBER
9.1.4
PROJECT NUMBER
99024.02
cab # 25505
174 C-2



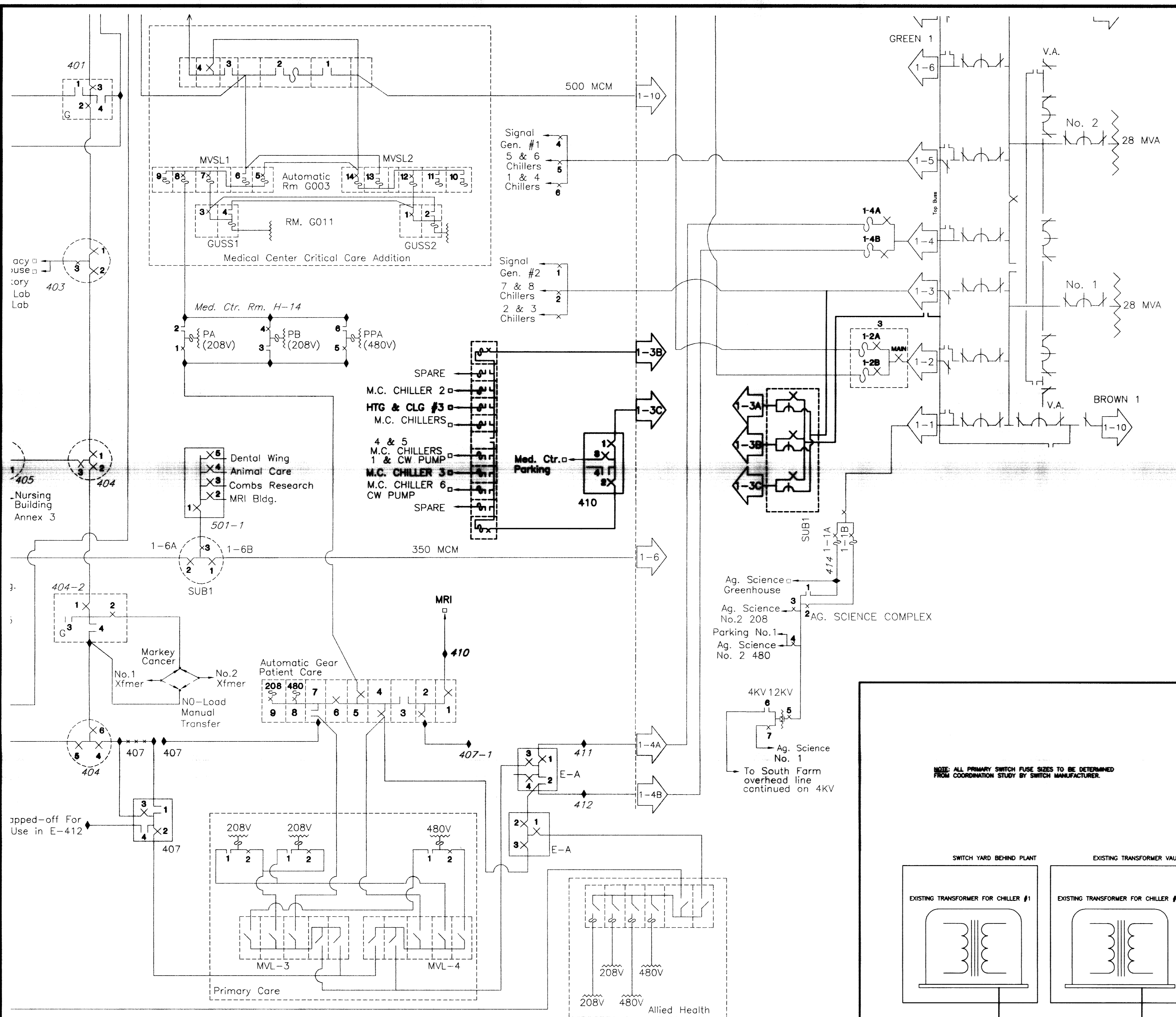
POWER PLAN - MEZZANINE LEVEL
SHEET SCALE: 1/4" = 1'-0"

POWER PLAN - ROOF
SHEET SCALE: 1/4" = 1'-0"

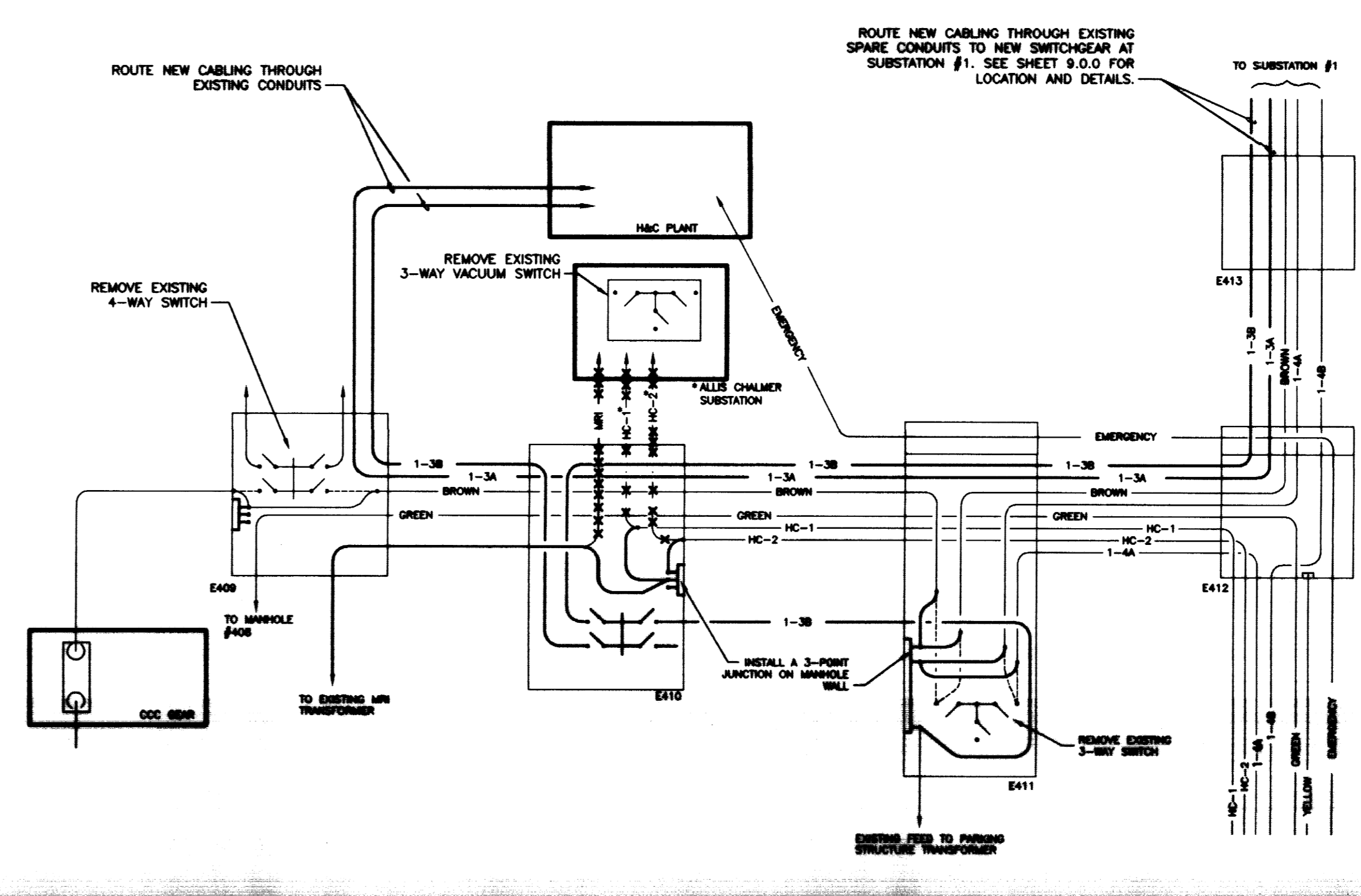
- CODED NOTES:**
- 1 NEW COOLING TOWER FAN UNITS CONSISTING OF EIGHT FANS. EACH FAN IS 7.5 HP, 480 V, 3ø AND IS FED BY 3 #12'S AND 1 #12 GND IN 2" CONDUIT.
 - 2 TWO ROWS OF EIGHT 2" CONDUITS RUN ONE ON TOP OF THE OTHER. EACH CONDUIT CONTAINS THREE SEPARATE FEEDERS.
 - 3 CONDUITS TO BE ROUTED ALONG EAST WALL OF STAIRWELL AND OUT WALL NEAR TOP OF STAIRWELL.
 - 4 MOTOR CONTROL CENTER 9A FED FROM MCC#8 IN BASEMENT. UNIT HAS ONE INCOMING SECTION AND TWO LOAD SECTIONS WITH 12 MODULAR MOTOR STARTERS IN EACH. MOTOR STARTERS TO HAVE LED INDICATING LIGHTS.
 - 5 MOTOR CONTROL CENTER 9B FED FROM MCC IN BASEMENT. UNIT HAS ONE INCOMING SECTION AND TWO LOAD SECTIONS WITH 12 MODULAR MOTOR STARTERS IN EACH. MOTOR STARTERS TO HAVE LED INDICATING LIGHTS.
 - 6 CONDUIT ROUTED THROUGH EXISTING PIPE CHASE. SEE SHEET 9.1.3 FOR CONTINUATION.
 - 7 SEE MEZZANINE LEVEL PLAN AT LEFT FOR CONTINUATION.
 - 8 SEE ROOF PLAN AT RIGHT FOR CONTINUATION.
 - 9 ROUTE CONDUIT ALONG UNDERSIDE OF EXISTING COOLING TOWER STRUCTURE.
 - 10 CONNECT TO FAN DISCONNECT PER MANUFACTURER'S INSTRUCTIONS.

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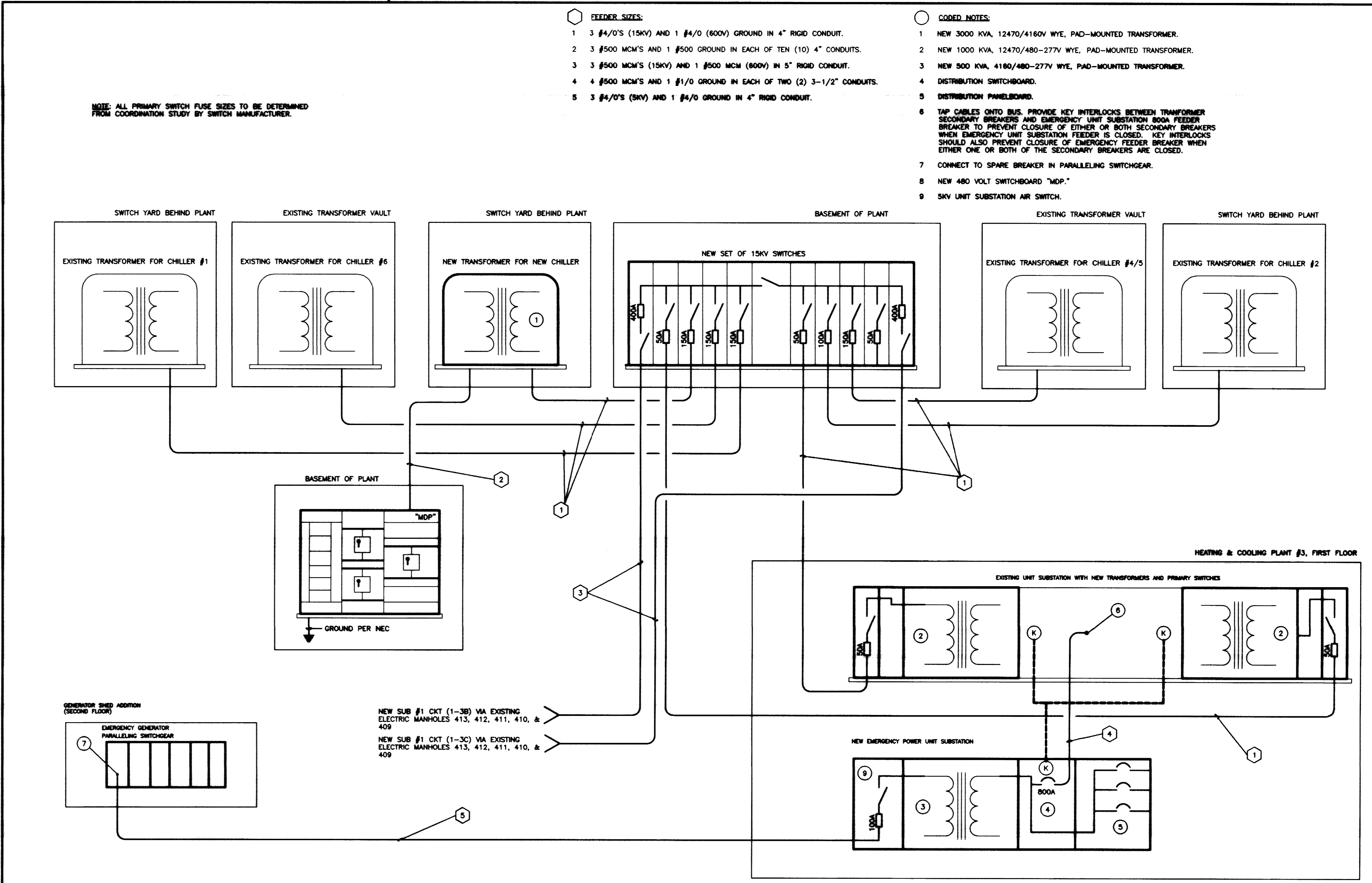
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MODIFIED 12KV ONE LINE DIAGRAM
NO SCALE



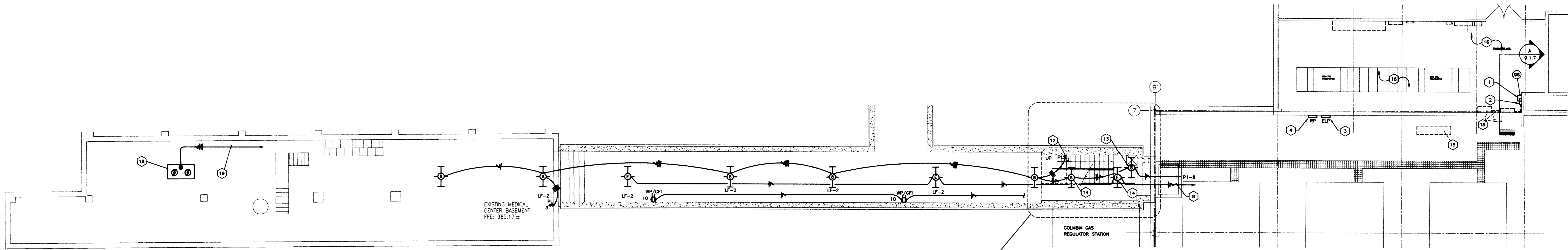
12KV PRIMARY/MANHOLE SCHEMATIC DIAGRAM
NO SCALE



ELECTRICAL RISER DIAGRAM
NO SCALE

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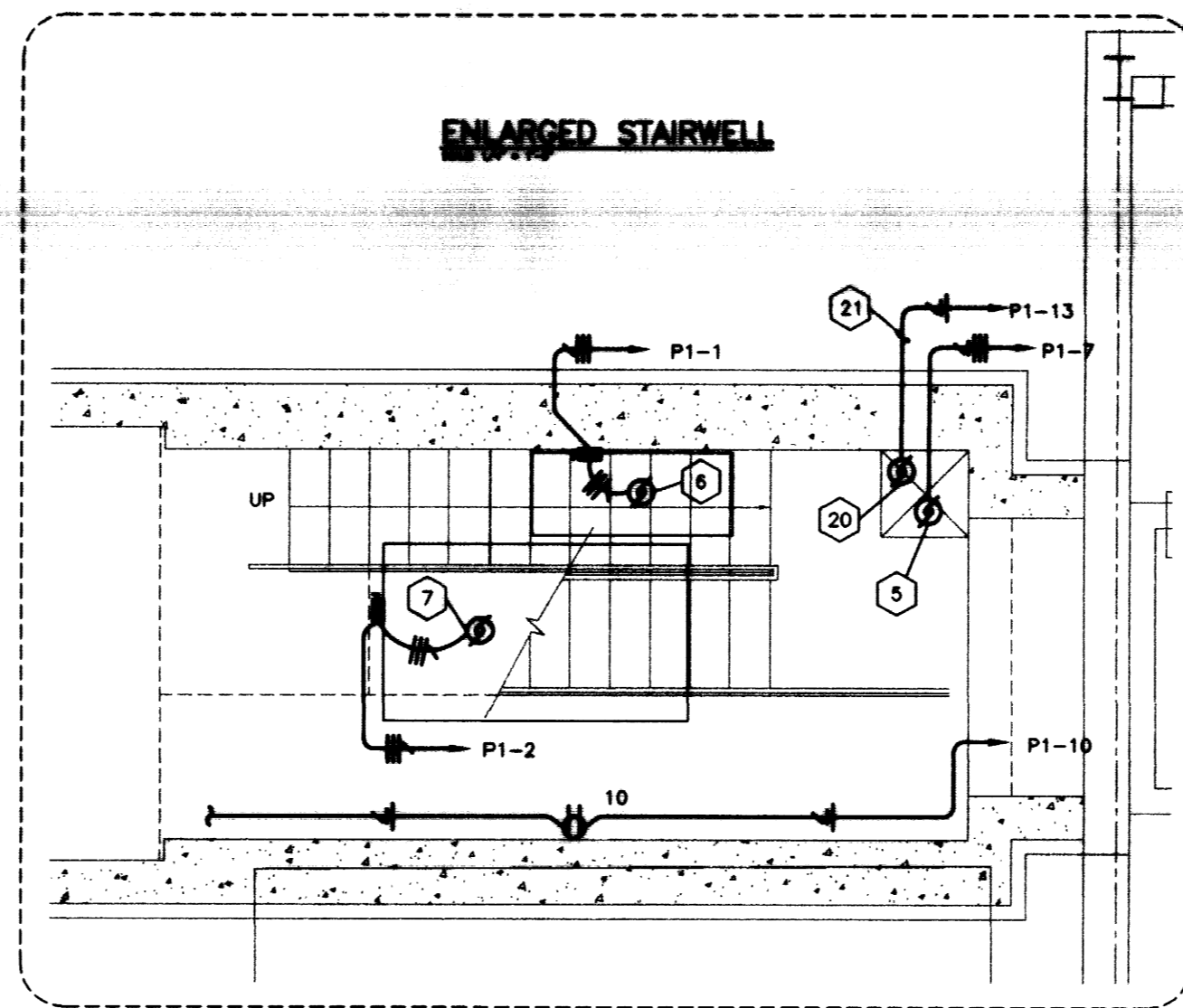
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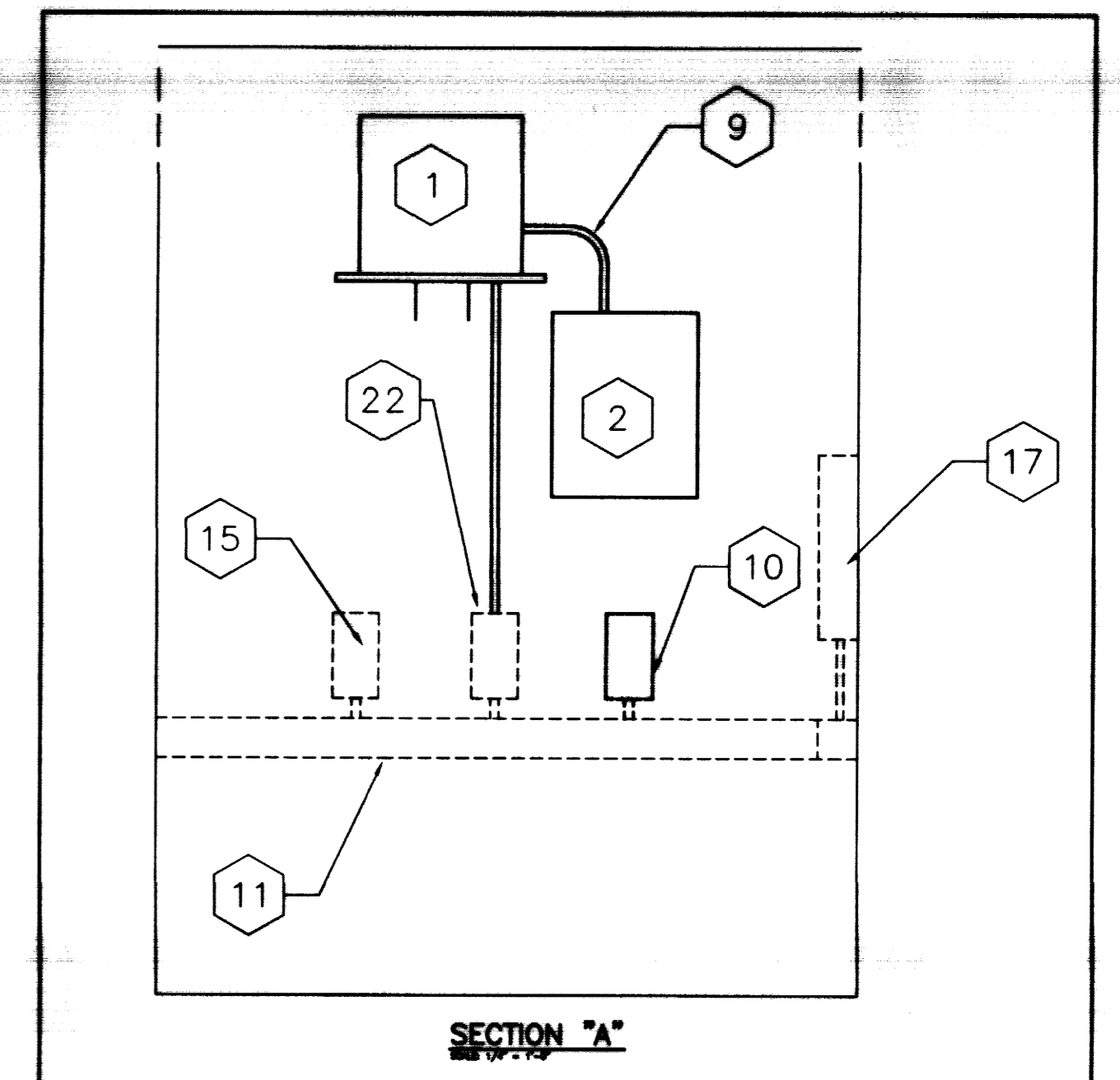
POWER PLAN - TUNNEL
SHEET SCALE: 1/8" = 1'-0"

PARTIAL POWER PLAN - FIRST FLOOR HEATING/COOLING PLANT
SHEET SCALE: 1/8" = 1'-0"

MOTOR CONTROL CENTER "MCC-8A" SCHEDULE				
277/480V. - 3 PHASE - 4 WIRE				
CIRCUIT NUMBER	APPLICATION	POLES	CAPACITY IN AMPS	
---	MLO	---	---	---
1	COOLING TOWER FAN CT-1A	3P	20	
2	COOLING TOWER FAN CT-1B	3P	20	
3	COOLING TOWER FAN CT-1C	3P	20	
4	COOLING TOWER FAN CT-1D	3P	20	
5	COOLING TOWER FAN CT-1E	3P	20	
6	COOLING TOWER FAN CT-1F	3P	20	
7	COOLING TOWER FAN CT-1G	3P	20	
8	COOLING TOWER FAN CT-1H	3P	20	
9	COOLING TOWER FAN CT-2A	3P	20	
10	COOLING TOWER FAN CT-2B	3P	20	
11	COOLING TOWER FAN CT-2C	3P	20	
12	COOLING TOWER FAN CT-2D	3P	20	
13	COOLING TOWER FAN CT-2E	3P	20	
14	COOLING TOWER FAN CT-2F	3P	20	
15	COOLING TOWER FAN CT-2G	3P	20	
16	COOLING TOWER FAN CT-2H	3P	20	
17	COOLING TOWER FAN CT-3A	3P	20	
18	COOLING TOWER FAN CT-3B	3P	20	
19	COOLING TOWER FAN CT-3C	3P	20	
20	COOLING TOWER FAN CT-3D	3P	20	
21	COOLING TOWER FAN CT-3E	3P	20	
22	COOLING TOWER FAN CT-3F	3P	20	
23	COOLING TOWER FAN CT-3G	3P	20	
24	COOLING TOWER FAN CT-3H	3P	20	



ENLARGED STAIRWELL



SECTION "A"

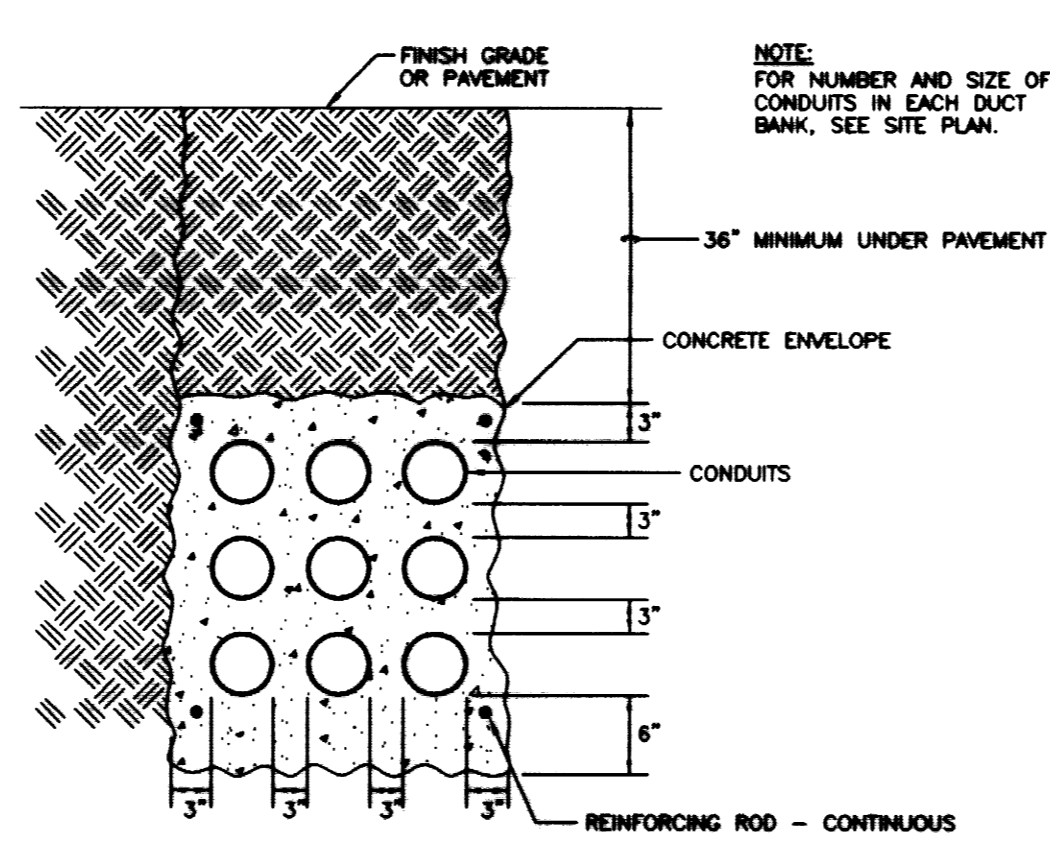
- CODED NOTES:**
- NEW 30kVA TRANSFORMER - 480V PRIMARY / 120/208V. WYE SECONDARY. FEED FROM ADJACENT PANEL. ORIGINALLY FEEDING DISCONNECTS TO BE REMOVED.
 - NEW 18 SPACE 120/208V. 3P PANEL FEED FROM NEW TRANSFORMER. REMOVE TWO EXISTING ABANDONED DISCONNECTS FROM WIRE WAY TO ACCOMMODATE NEW PANEL PLACEMENT.
 - EXISTING NORMAL LIGHTING PANEL TO REMAIN.
 - EXISTING EMERGENCY LIGHTING PANEL TO REMAIN.
 - NEW SUMP PUMP: 2HP, 208V, 3P.
 - NEW CONDENSATE PUMP: 1/2HP(X2), 208V, 3P.
 - NEW ROOF EXHAUST FAN: 5HP, 208V, 3P.
 - TO SPARE 20 AMP, 1-POLE CIRCUIT BREAKER IN EXISTING EMERGENCY LIGHTING PANELBOARD "ELP".
 - 4#6'S AND 1#6 GND IN 1" CONDUIT.
 - EXISTING ABANDONED DISCONNECTS TO BE REMOVED TO ACCOMMODATE NEW PANEL. REMOVE ALL WIRING BACK TO ELECTRICAL PANEL.
 - EXISTING SWITCH AT STAIRWELL ENTRY ON FIRST FLOOR.
 - LIGHT SWITCH AT STAIRWELL ENTRY ON FIRST FLOOR.
 - LIGHT FIXTURE PENDANT MOUNTED UNDERNEATH INTERMEDIATE LANDING IN STAIRWELL.
 - LIGHT FIXTURE PENDANT MOUNTED ON FIRST FLOOR STAIRWELL CEILING.
 - EXISTING ELECTRICAL EQUIPMENT TO REMAIN.
 - SEE ADDITIONAL ELECTRICAL DRAWINGS FOR NEW WORK IN THIS AREA NOT PERTAINING TO TUNNEL ADDITION.
 - EXISTING DISTRIBUTION PANEL TO REMAIN. MODIFY AS REQUIRED TO ACCOMMODATE NEW FEED TO NEW TRANSFORMER.
 - NEW CONDENSATE RETURN UNIT SUPPLIED BY OWNER AND INSTALLED BY DIVISION 15 CONTRACTOR.
 - NEW FEEDER CONSISTING OF 4 #6'S AND 1 #10 GND IN 1 1/2" CONDUIT TO NEW ADDY PANEL IN THE FIRST FLOOR ELECTRICAL ROOM OF THE HEATING & COOLING PLANT. INSTALL NEW BREAKER IN ACCORDANCE WITH THE MANUFACTURER OF CONDENSATE PUMP UNIT.
 - NEW SUMP PUMP: 2HP, 115V, 1P.
 - 2 #10'S AND 1 #10 GND IN 1 1/2" CONDUIT.
 - EXISTING UNUSED DISCONNECT. INSTALL NEW 30A FUSES AND CONNECT TO NEW 30kVA TRANSFORMER.

PANELBOARD - P1											
MOUNTING - SURFACE						60 - MAIN					
LOCATION - 1ST FLOOR ELECTRICAL ROOM						4#6'S & 1#6 GND IN 1" - FEEDER					
VOLTAGE - 208 / 120						3 - PHASE					
LOAD	KW	LOAD TYPE	CB	POLE	WIRE SIZE	BRK #	PHASE	WIRE SIZE	POLE	CB	LOAD
CONDENSATE PUMP	1.73	M	15	3	12	1	X	2	8	3	6.30 TUNNEL EXHAUST FAN
TUNNEL SUMP PUMP #1	1.50	M	5	3	12	7	X	8	12	1	1.00 TUNNEL LIGHTS
TUNNEL SUMP PUMP #2	0.98	M	5	3	12	9	X	10	12	1	1.00 TUNNEL RECEIPTILES
SPARE		M	5	3	12	11	X	12	12	1	1.00 PUMP/OUT UNIT - CHILLERS 3A & 3B
SPACE		M	5	3	12	13	X	14	1	30	SPACE
SPACE		M	5	3	12	15	X	16			SPACE
SPACE		M	5	3	12	17	X	18			SPACE

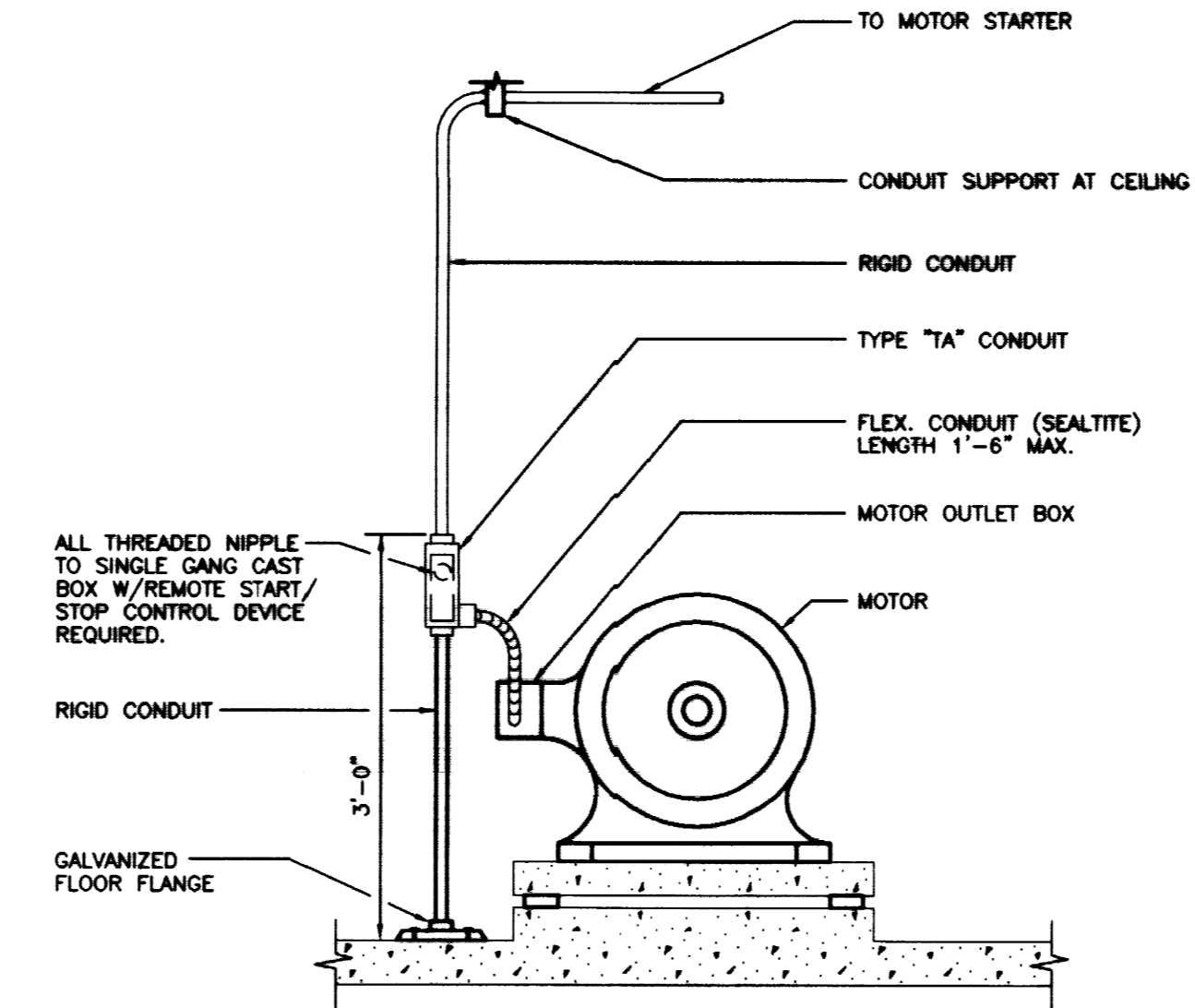
CIRCUIT NUMBER	APPLICATION	POLES	CAPACITY IN AMPS
---	MLO	---	---
1	COOLING TOWER FAN CT-1A	3P	20
2	COOLING TOWER FAN CT-1B	3P	20
3	COOLING TOWER FAN CT-1C	3P	20
4	COOLING TOWER FAN CT-1D	3P	20
5	COOLING TOWER FAN CT-1E	3P	20
6	COOLING TOWER FAN CT-1F	3P	20
7	COOLING TOWER FAN CT-1G	3P	20
8	COOLING TOWER FAN CT-1H	3P	20
9	COOLING TOWER FAN CT-2A	3P	20
10	COOLING TOWER FAN CT-2B	3P	20
11	COOLING TOWER FAN CT-2C	3P	20
12	COOLING TOWER FAN CT-2D	3P	20
13	COOLING TOWER FAN CT-2E	3P	20
14	COOLING TOWER FAN CT-2F	3P	20
15	COOLING TOWER FAN CT-2G	3P	20
16	COOLING TOWER FAN CT-2H	3P	20
17	COOLING TOWER FAN CT-3A	3P	20
18	COOLING TOWER FAN CT-3B	3P	20
19	COOLING TOWER FAN CT-3C	3P	20
20	COOLING TOWER FAN CT-3D	3P	20
21	COOLING TOWER FAN CT-3E	3P	20
22	COOLING TOWER FAN CT-3F	3P	20
23	COOLING TOWER FAN CT-3G	3P	20
24	COOLING TOWER FAN CT-3H	3P	20

EMERGENCY DISTRIBUTION SWITCHBOARD SCHEDULE				
277/480V. - 3 PHASE - 4 WIRE				
CIRCUIT NUMBER	APPLICATION	POLES	CAPACITY IN AMPS	
---	MLO	---	---	---
1	ATS-1	3P	1000	
2	ATS-2	3P	225	
3	UNIT SUBSTATION	3P	300	
4	TEMP CONTROL CIRCUITS	1P	20	
5	TEMP CONTROL CIRCUITS	1P	20	
6	TEMP CONTROL CIRCUITS	1P	20	
7	SPARE	3P	80	
8	SPARE	3P	30	
9	SPARE	3P	30	

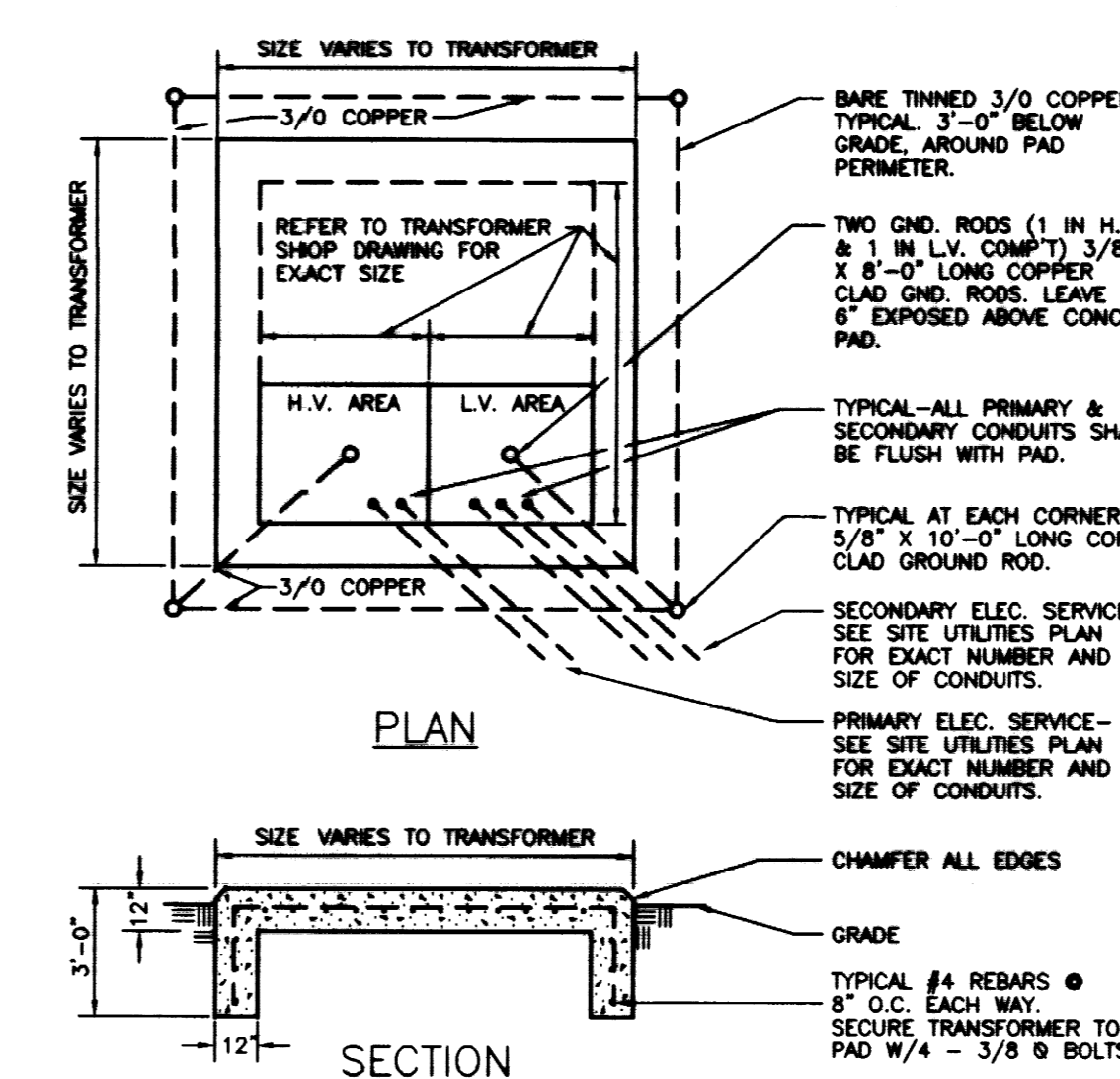
DISTRIBUTION PANEL "MDP" SCHEDULE				
277/480V. - 3 PHASE - 4 WIRE				
CIRCUIT NUMBER	APPLICATION	POLES	CAPACITY IN AMPS	
---	MLO	---	---	---
1	MAIN	3P	4000	
2	CHILLER #3A	3P	1800	
3	CHILLER #3B	3P	1800	
4	PRIMARY CHILLED WATER PUMP #1	3P	100	
5	PRIMARY CHILLED WATER PUMP #2	3P	100	
6	COOLING TOWER PUMP #1	3P	350	
7	COOLING TOWER PUMP #2	3P	350	



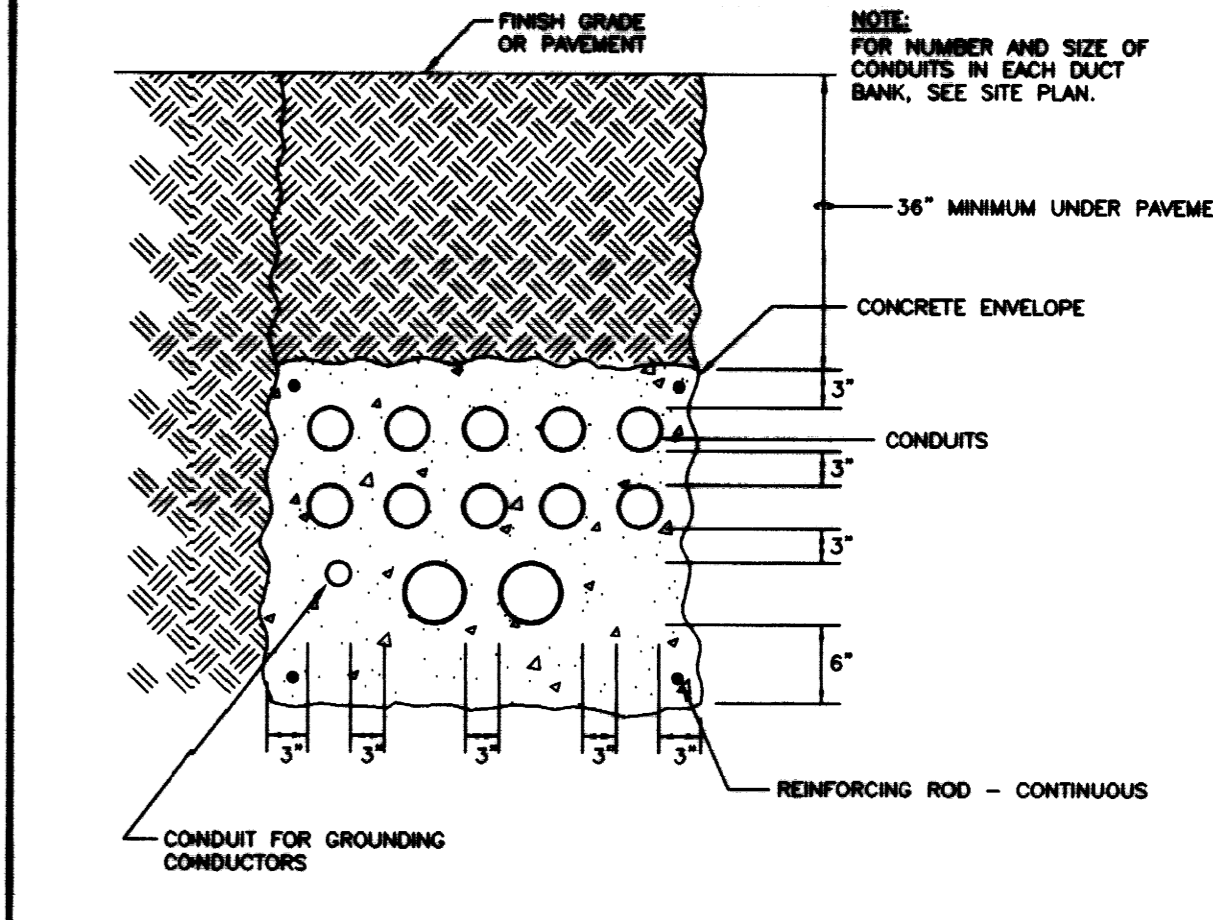
TYPICAL PRIMARY CONDUIT INSTALLATION DETAIL
NO SCALE



TYPICAL MOTOR CONNECTION DETAIL
NO SCALE



TRANSFORMER PAD DETAIL
NO SCALE



TRANSFORMER DUCTBANK INSTALLATION DETAIL
NO SCALE

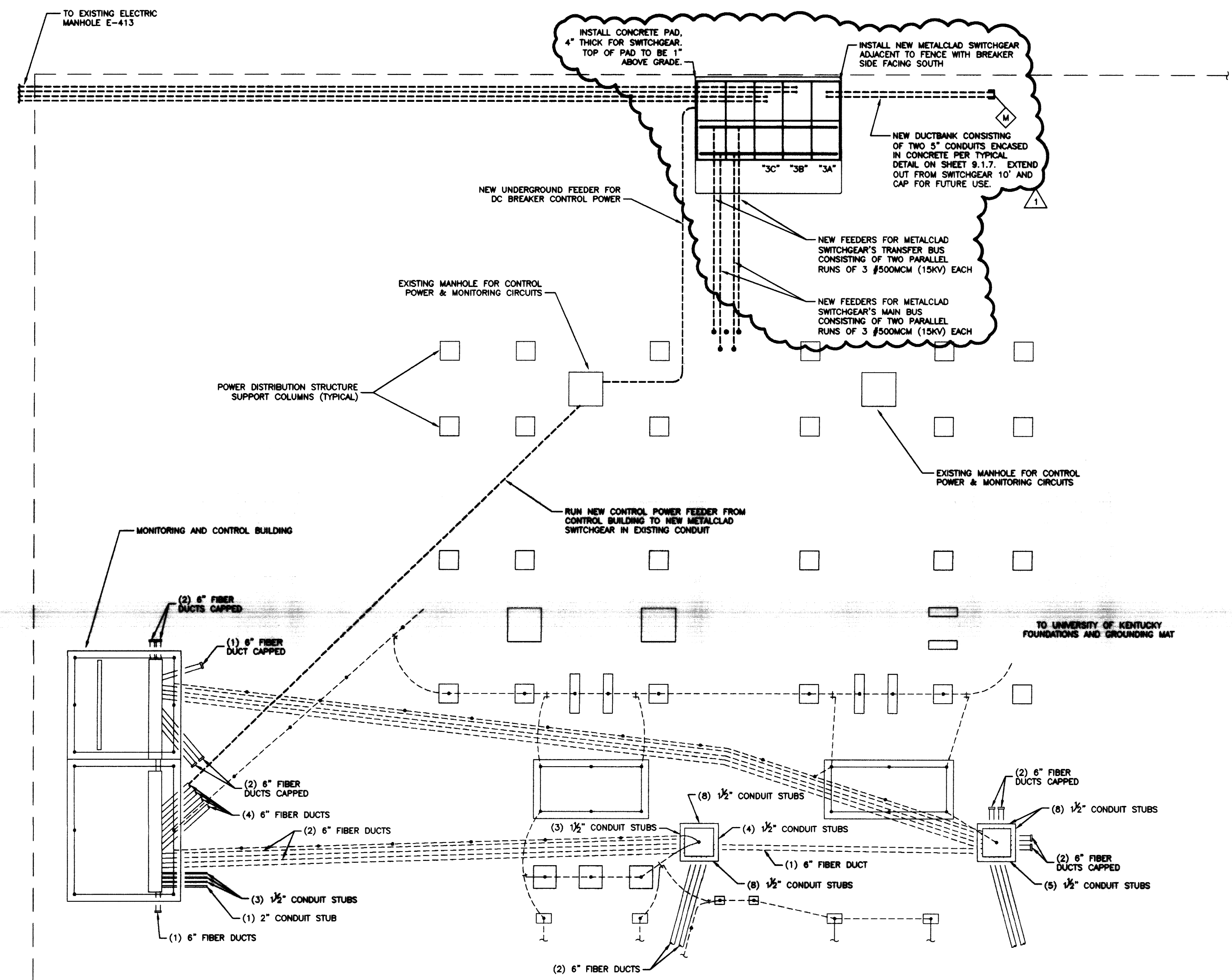
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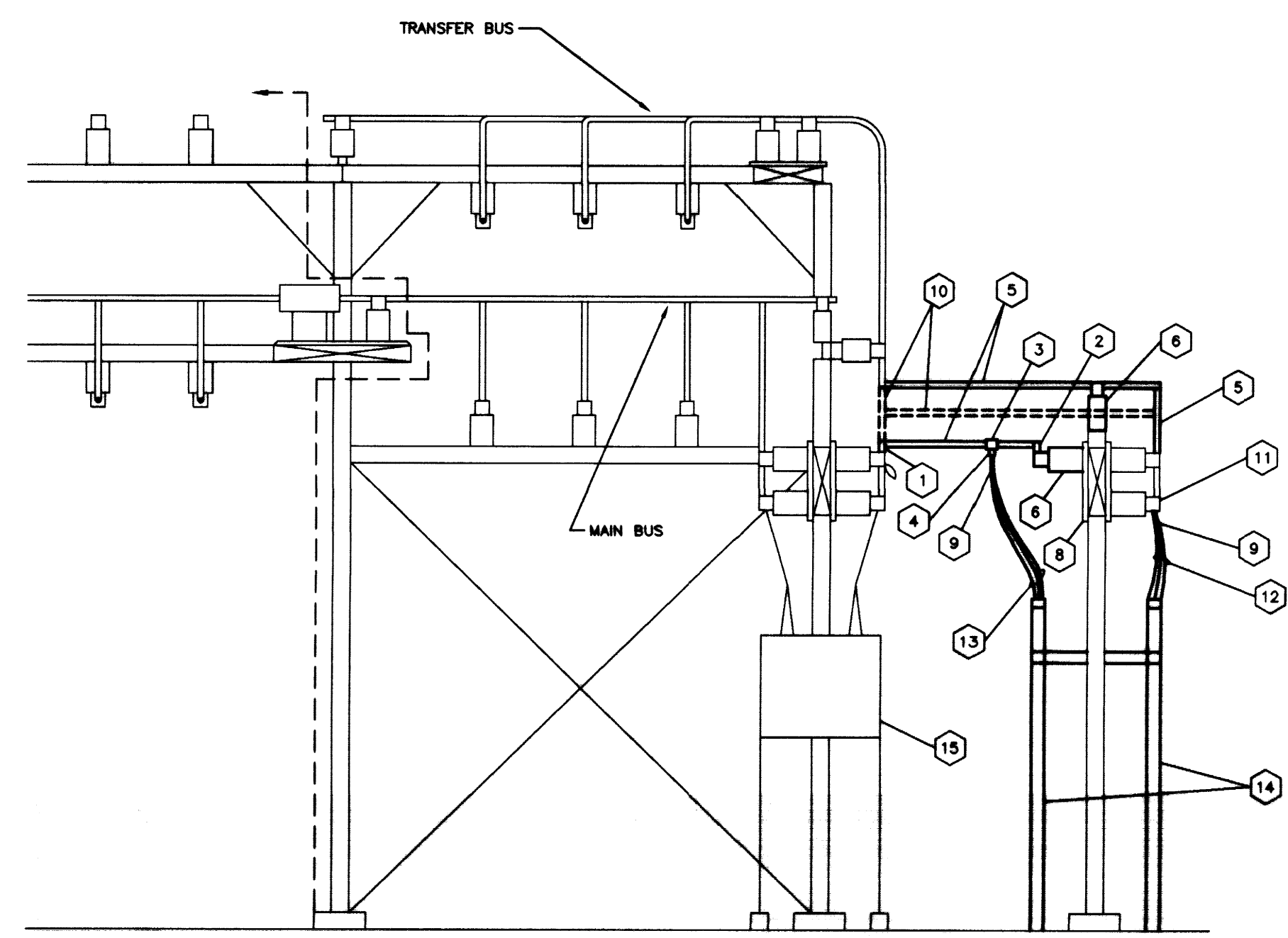
FAILURE TO ADHERE TO THESE CONDITIONS MAY BE CAUSAL FACTOR IN THE EVENT OF A LITIGATION AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE CONTRACTOR'S INTERESTS IN THE EVENT OF A LITIGATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE CONTRACTOR'S INTERESTS IN THE EVENT OF A LITIGATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE CONTRACTOR'S INTERESTS IN THE EVENT OF A LITIGATION.

Feature	Description
LF-1	WALL MOUNTED 150 WATT INCANDESCENT ELEVATOR PIT LIGHT WITH GLASS REINFORCED THERMOPLASTIC HOUSING AND GUARD. CLEAR GLASS GLOBE. UL LISTING FOR WET LOCATION, AND ONE (1) 150 WATT A21 LAMP.
LF-2	1/4 VAPOR PROOF FLOURESCENT FIXTURE UL LISTED FOR WET LOCATION, FIBERGLASS REINFORCED HOUSING, AGYRISO LENS, ELECTRONIC LESS THAN 10X THD BALLAST AND (2) F32 T8 LAMPS, 120 VOLT.

ELECTRICAL PLAN - DETAILS
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

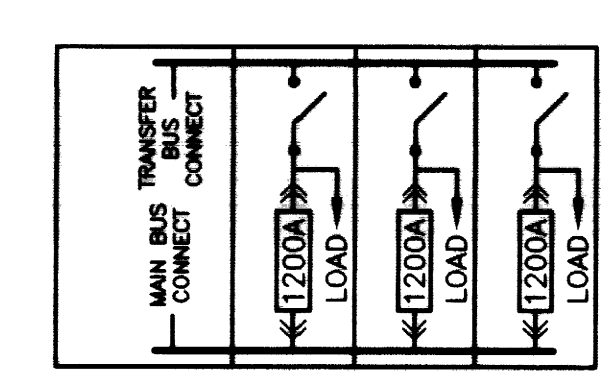


PARTIAL FIBER DUCT, CONDUIT, AND GROUNDING PLAN
SCALE: 1/8"=1'-0"

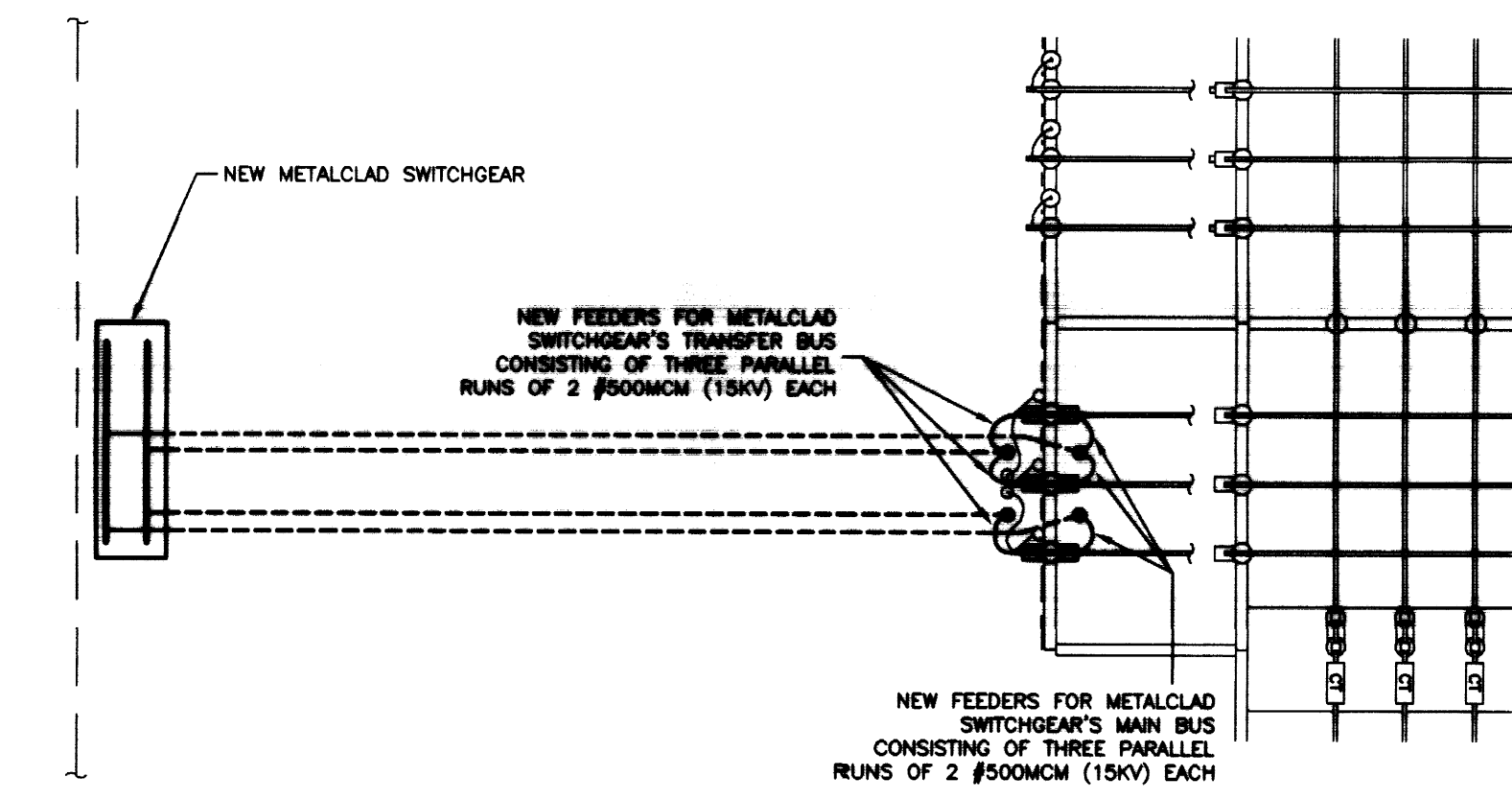


SUBSTATION #1 - NEW SWITCHGEAR INSTALLATION DETAIL - SECTION VIEW
NO SCALE

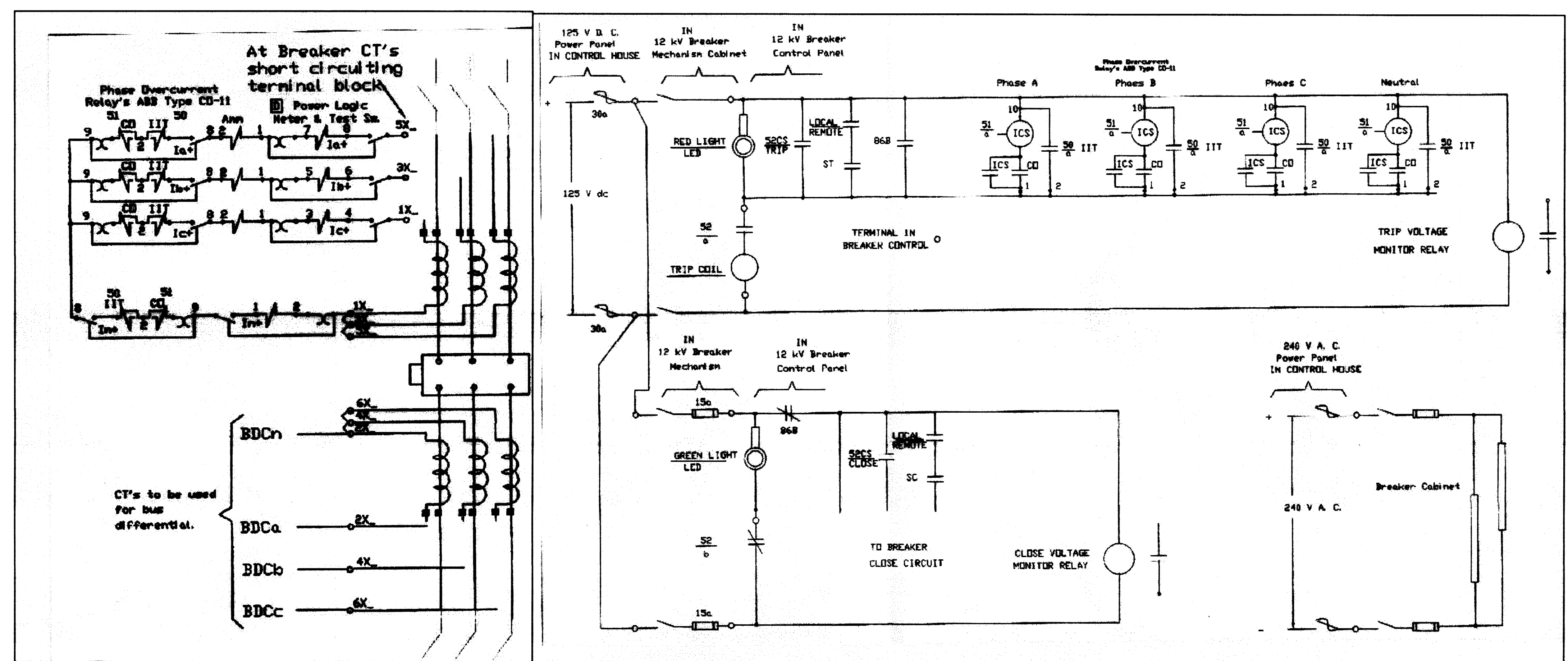
- NOTES:**
- BRONZE TERMINAL 1-1/4" S.P.S. TO A 4 HOLE PAD. CATALOG # FNT90-49-4A.
 - BRONZE BUS SUPPORT TO 1-1/4" S.P.S. CATALOG # SVT1-49-3.
 - BRONZE TEE CONNECTOR 1-1/4" RUN TO 4 HOLE PAD. CATALOG # TT-49-4A.
 - BRONZE TERMINAL 4 HOLE PAD TO 500 MCM COPPER CABLE. CATALOG # FNCT-42-4A.
 - 1-1/4" S.P.S. COPPER PIPE BUS.
 - 3" B.C. 15KV CLASS STATION POST INSULATOR. CATALOG # T.R.205.
 - 6" INSULATOR STOOL FOR 3" B.C.
 - 3" B.C. GALVANIZED STEEL INSULATOR SUPPORTS.
 - RAYCHEM TERMINATORS FOR 500 MCM CABLE.
 - REMOVE SECTION OF EXISTING BUS TO FACILITATE ROUTING BOTH BUSES TO FRONT DISTRIBUTION GARDER.
 - TERMINATE NEW FEEDER CONDUCTORS ONTO EXISTING FEEDER TERMINALS.
 - NEW FEEDERS FOR METALCLAD SWITCHGEAR'S TRANSFER BUS CONSISTING OF THREE PARALLEL RUNS OF 2 #500MCM (15KV) EACH.
 - NEW FEEDERS FOR METALCLAD SWITCHGEAR'S MAIN BUS CONSISTING OF THREE PARALLEL RUNS OF 2 #500MCM (15KV) EACH.
 - INSTALL 2 NEW RUNS OF 5" CONDUIT.
 - EXISTING BREAKER FOR CIRCUIT 1-3. RESET OVERCURRENT TRIP SETTINGS TO 800 AMPS.



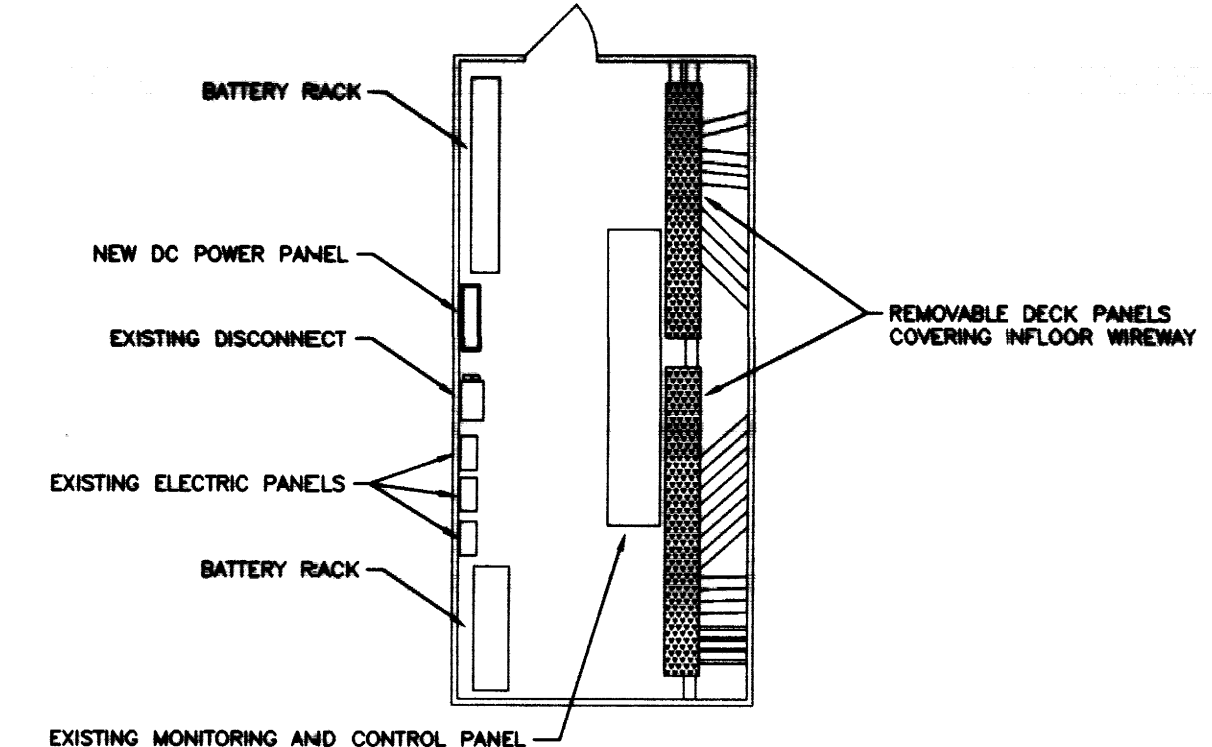
METALCLAD SWITCHGEAR BLOCK DIAGRAM
NO SCALE



SUBSTATION #1 - NEW SWITCHGEAR INSTALLATION DETAIL - PLAN VIEW
NO SCALE

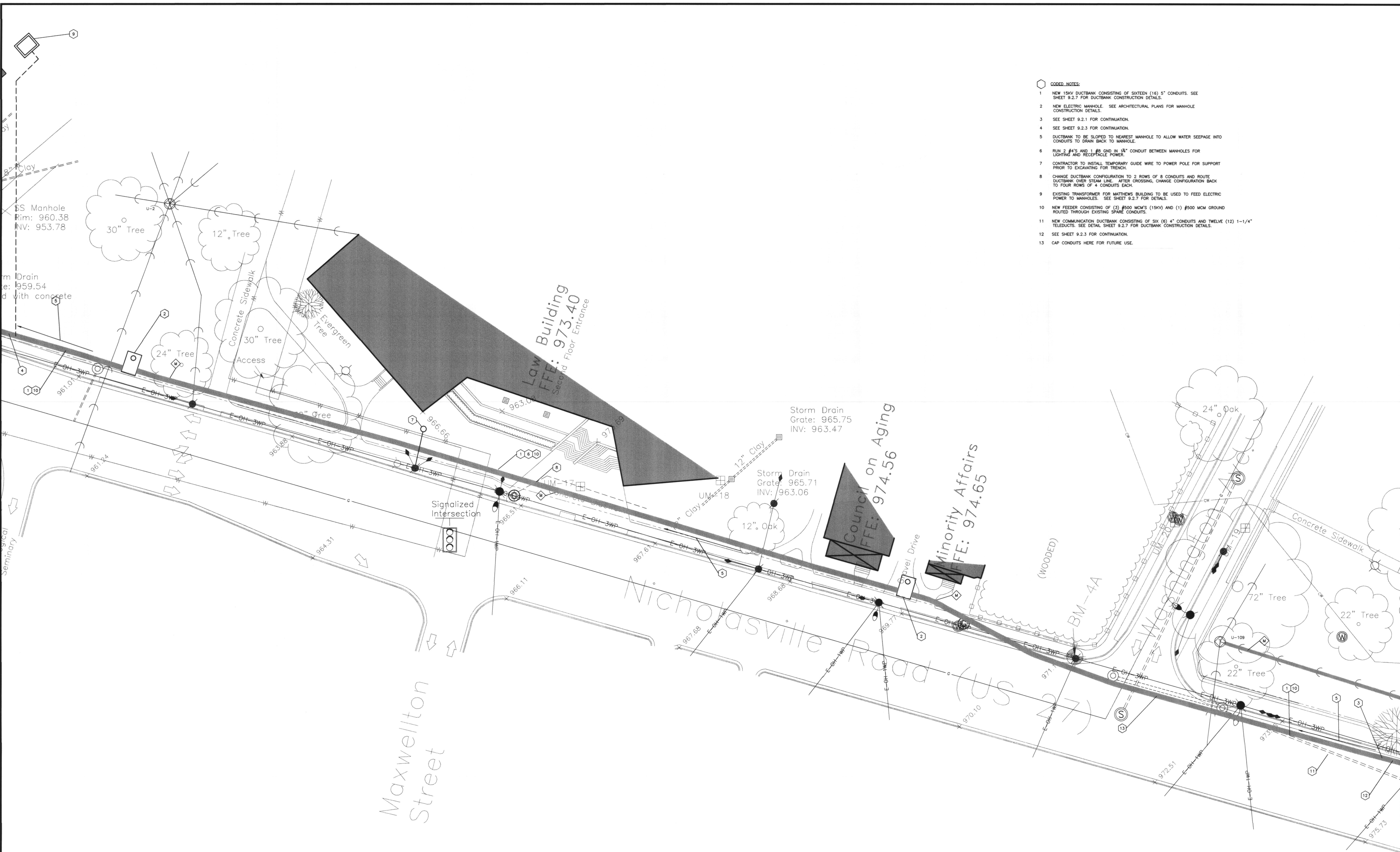


METALCLAD SWITCHGEAR CONTROL SCHEMATICS
NO SCALE



DC POWER PANEL INSTALLATION DETAIL - CONTROL HOUSE
NO SCALE

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- CODED NOTES:**
- 1 NEW 15KV DUCTBANK CONSISTING OF SIXTEEN (16) 5" CONDUITS. SEE SHEET 9.2.7 FOR DUCTBANK CONSTRUCTION DETAILS.
 - 2 NEW ELECTRIC MANHOLE. SEE ARCHITECTURAL PLANS FOR MANHOLE CONSTRUCTION DETAILS.
 - 3 SEE SHEET 9.2.1 FOR CONTINUATION.
 - 4 SEE SHEET 9.2.3 FOR CONTINUATION.
 - 5 DUCTBANK TO BE SLOPED TO NEAREST MANHOLE TO ALLOW WATER SEEPAGE INTO CONDUITS TO DRAIN BACK TO MANHOLE.
 - 6 RUN 2 #4'S AND 1 #6 GND IN 3/4" CONDUIT BETWEEN MANHOLES FOR LIGHTING AND RECEPTACLE POWER.
 - 7 CONTRACTOR TO INSTALL TEMPORARY GUIDE WIRE TO POWER POLE FOR SUPPORT PRIOR TO EXCAVATING FOR TRENCH.
 - 8 CHANGE DUCTBANK CONFIGURATION TO 2 ROWS OF 8 CONDUITS AND ROUTE DUCTBANK OVER STEAM LINE. AFTER CROSSING, CHANGE CONFIGURATION BACK TO FOUR ROWS OF 4 CONDUITS EACH.
 - 9 EXISTING TRANSFORMER FOR MATTHEWS BUILDING TO BE USED TO FEED ELECTRIC POWER TO MANHOLES. SEE SHEET 9.2.7 FOR DETAILS.
 - 10 NEW FEEDER CONSISTING OF (3) #500 MCM'S (15KV) AND (1) #500 MCM GROUND ROUTED THROUGH EXISTING SPARE CONDUITS.
 - 11 NEW COMMUNICATION DUCTBANK CONSISTING OF SIX (6) 4" CONDUITS AND TWELVE (12) 1-1/4" TELECOMS. SEE DETAIL SHEET 9.2.7 FOR DUCTBANK CONSTRUCTION DETAILS.
 - 12 SEE SHEET 9.2.3 FOR CONTINUATION.
 - 13 CAP CONDUITS HERE FOR FUTURE USE.

NOTE:
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ELECTRICAL SITE PLAN - SECTION "C"
 SCALE: 1" = 20'



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 CHRISTIAN - MILLER - WOODFORD - INC.
 ARCHITECTURE ENGINEERING PLANNING INTERIORS LANDSCAPE ARCHITECTURE
 285 S. BROADWAY LEXINGTON, KENTUCKY 40517 (606) 254-6662

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STATE OF KENTUCKY
 REGISTERED PROFESSIONAL ENGINEER
 14715
 1975

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ELECTRICAL SITE PLAN - SECTION "C"
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

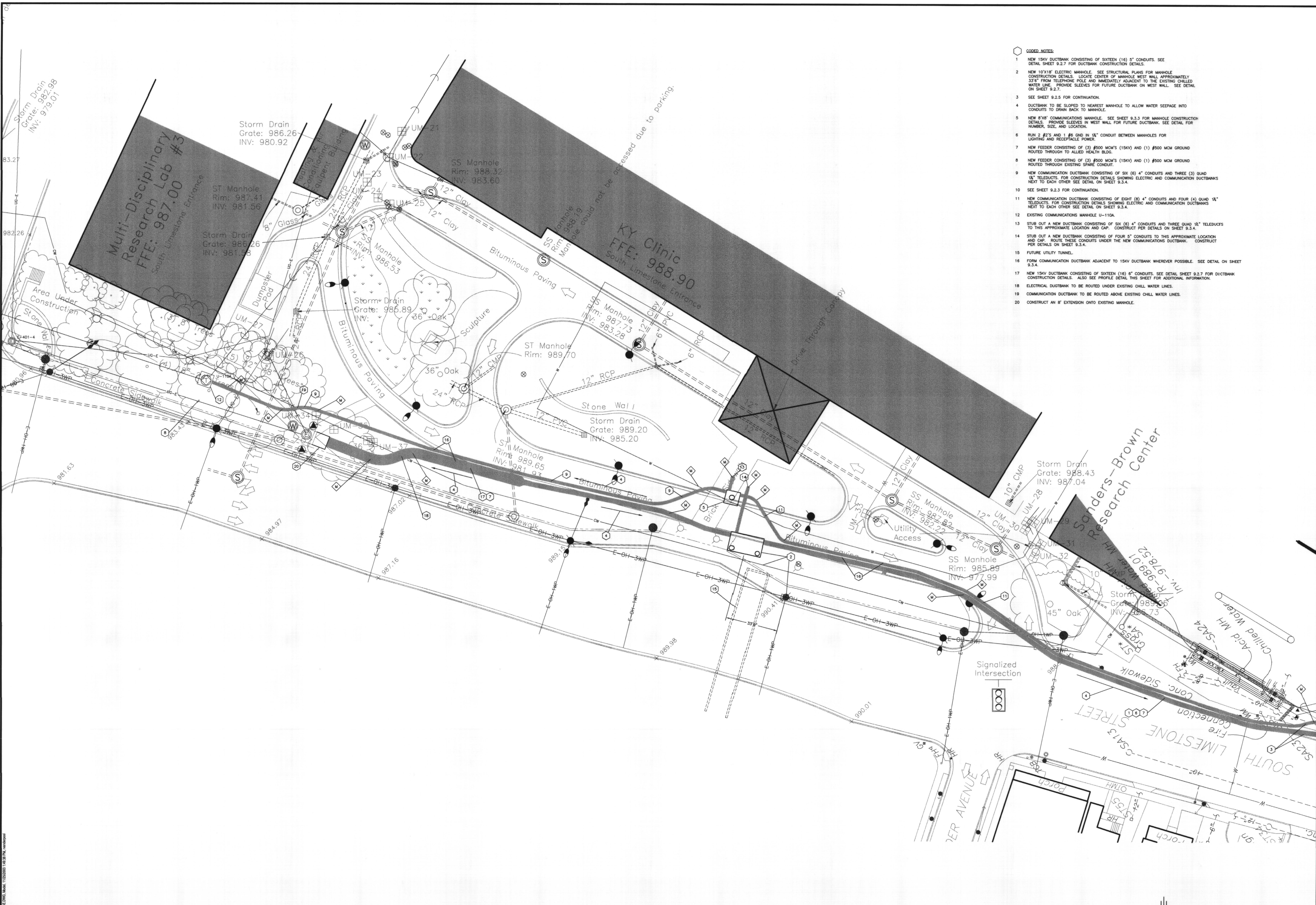
SHT. PROJECT TITLE
 DATE: DECEMBER, 2000
 DRAWN BY: WFW
 CHECKED BY: CCK
 REVISED:
 DATE

SHEET NUMBER
9.2.2

PROJECT NUMBER
 99024.02

Doc #
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Document #
 C-2 25512

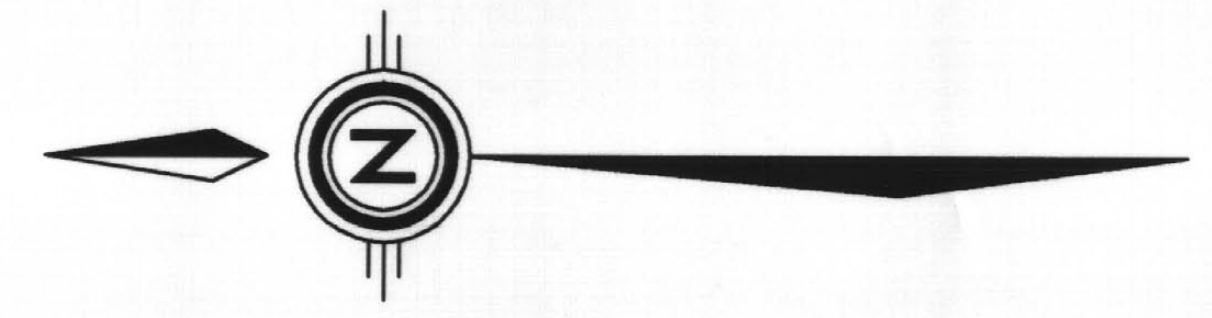


- CODED NOTES:**
- 1 NEW 15KV DUCTBANK CONSISTING OF SIXTEEN (16) 5" CONDUITS. SEE DETAIL SHEET 9.2.7 FOR DUCTBANK CONSTRUCTION DETAILS.
 - 2 NEW 10'x18" ELECTRIC MANHOLE. SEE STRUCTURAL PLANS FOR MANHOLE CONSTRUCTION DETAILS. LOCATE CENTER OF MANHOLE WEST WALL APPROXIMATELY 33" FROM TELEPHONE POLE AND IMMEDIATELY ADJACENT TO THE EXISTING CHILLED WATER LINE. PROVIDE SLEEVES FOR FUTURE DUCTBANK ON WEST WALL. SEE DETAIL ON SHEET 9.2.7.
 - 3 SEE SHEET 9.2.5 FOR CONTINUATION.
 - 4 DUCTBANK TO BE SLOPED TO NEAREST MANHOLE TO ALLOW WATER SEEPAGE INTO CONDUITS TO DRAIN BACK TO MANHOLE.
 - 5 NEW 8'x8" COMMUNICATIONS MANHOLE. SEE SHEET 9.3.3 FOR MANHOLE CONSTRUCTION DETAILS. PROVIDE SLEEVES IN WEST WALL FOR FUTURE DUCTBANK. SEE DETAIL FOR NUMBER, SIZE, AND LOCATION.
 - 6 RUN 2 #2'S AND 1 #6 GND IN 1/2" CONDUIT BETWEEN MANHOLES FOR LIGHTING AND RECEPTACLE POWER.
 - 7 NEW FEEDER CONSISTING OF (3) #500 MCM'S (15KV) AND (1) #500 MCM GROUND ROUTED THROUGH TO ADJACENT HEALTH BLDG.
 - 8 NEW FEEDER CONSISTING OF (3) #500 MCM'S (15KV) AND (1) #500 MCM GROUND ROUTED THROUGH EXISTING SPARE CONDUIT.
 - 9 NEW COMMUNICATION DUCTBANK CONSISTING OF SIX (6) 4" CONDUITS AND THREE (3) QUAD 1/2" TELEDUCTS. FOR CONSTRUCTION DETAILS SHOWING ELECTRIC AND COMMUNICATION DUCTBANKS NEXT TO EACH OTHER SEE DETAIL ON SHEET 9.3.4.
 - 10 SEE SHEET 9.2.3 FOR CONTINUATION.
 - 11 NEW COMMUNICATION DUCTBANK CONSISTING OF EIGHT (8) 4" CONDUITS AND FOUR (4) QUAD 1/2" TELEDUCTS. FOR CONSTRUCTION DETAILS SHOWING ELECTRIC AND COMMUNICATION DUCTBANKS NEXT TO EACH OTHER SEE DETAIL ON SHEET 9.3.4.
 - 12 EXISTING COMMUNICATIONS MANHOLE U-110A.
 - 13 STUB OUT A NEW DUCTBANK CONSISTING OF SIX (6) 4" CONDUITS AND THREE QUAD 1/2" TELEDUCTS TO THIS APPROXIMATE LOCATION AND CAP. CONSTRUCT PER DETAILS ON SHEET 9.3.4.
 - 14 STUB OUT A NEW DUCTBANK CONSISTING OF FOUR 5" CONDUITS TO THIS APPROXIMATE LOCATION AND CAP. ROUTE THESE CONDUITS UNDER THE NEW COMMUNICATIONS DUCTBANK. CONSTRUCT PER DETAILS ON SHEET 9.3.4.
 - 15 FUTURE UTILITY TUNNEL.
 - 16 FORM COMMUNICATION DUCTBANK ADJACENT TO 15KV DUCTBANK WHEREVER POSSIBLE. SEE DETAIL ON SHEET 9.3.4.
 - 17 NEW 15KV DUCTBANK CONSISTING OF SIXTEEN (16) 5" CONDUITS. SEE DETAIL SHEET 9.2.7 FOR DUCTBANK CONSTRUCTION DETAILS. ALSO SEE PROFILE DETAIL THIS SHEET FOR ADDITIONAL INFORMATION.
 - 18 ELECTRICAL DUCTBANK TO BE ROUTED UNDER EXISTING CHILL WATER LINES.
 - 19 COMMUNICATION DUCTBANK TO BE ROUTED ABOVE EXISTING CHILL WATER LINES.
 - 20 CONSTRUCT AN 8' EXTENSION ONTO EXISTING MANHOLE.

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ELECTRICAL SITE PLAN - SECTION "E"
 SCALE: 1" = 20'



AREA #4 - LIMESTONE

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 Stoggs and Fisher
 Consulting Engineers, Inc.
 3294 Letcher Avenue Lexington, Kentucky 40517

REGISTERED PROFESSIONAL ENGINEER
 STATE OF KENTUCKY
 CATEGORY 6
 LICENSE NO. 44715

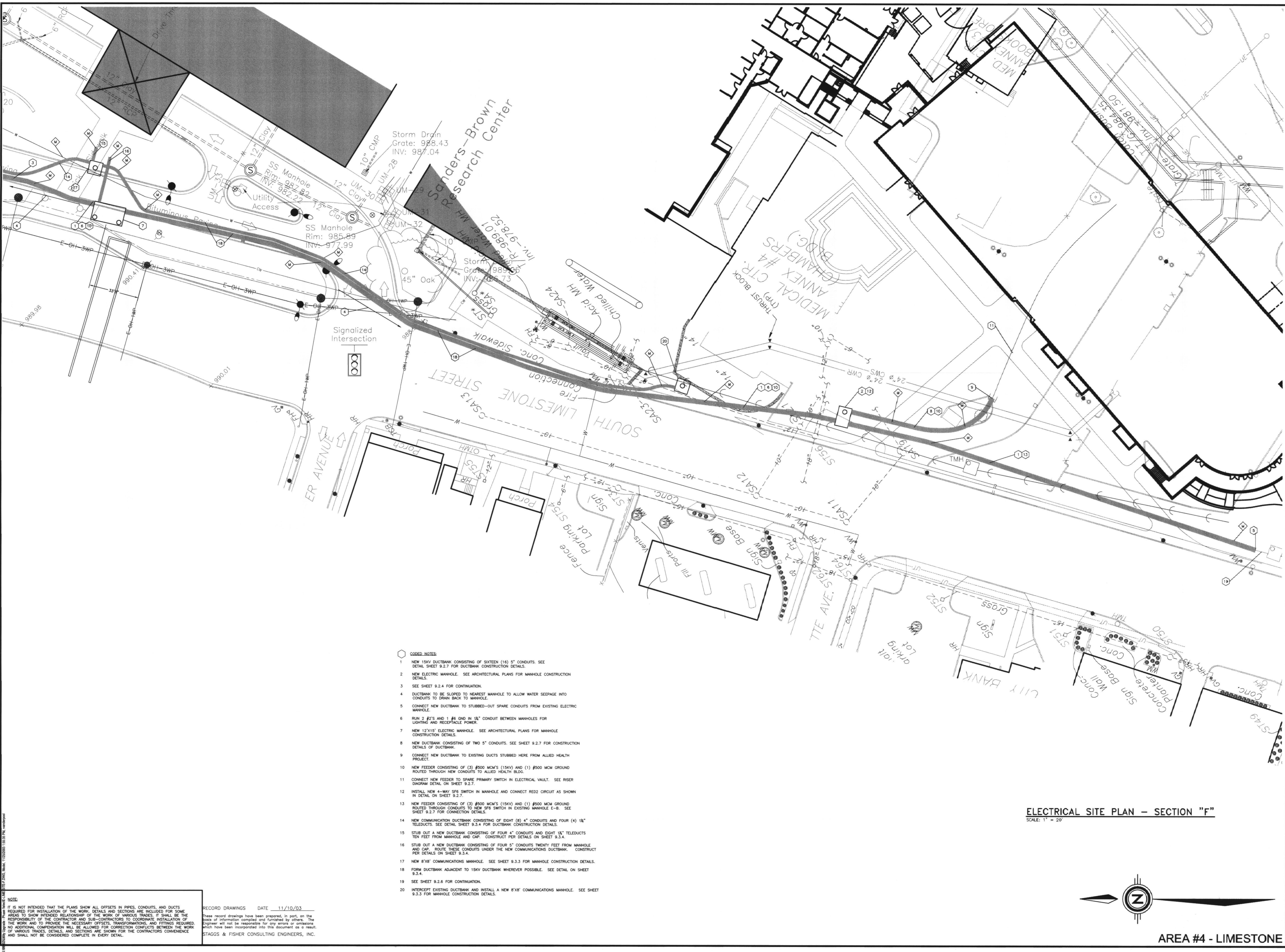
DATE: DECEMBER, 2000
 DRAWN BY: WPW
 CHECKED BY: GGC
 REVISED:

DATE	REVISION #
6/21/01	REVISION #1
7/23/01	REVISION #2
8/2/01	REVISION #3
9/17/01	REVISION #4

SHEET NUMBER
9.2.4

PROJECT NUMBER
 99024.02

SHT. PROJECT TITLE
ELECTRICAL SITE PLAN - SECTION "E"
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

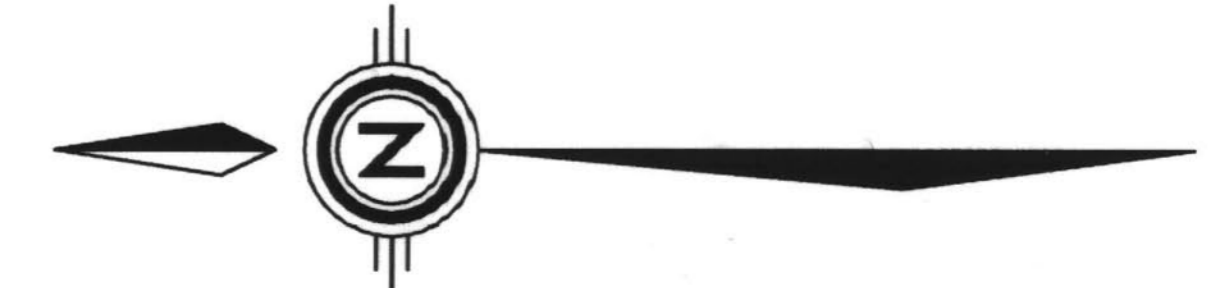


- CODED NOTES:**
- 1 NEW 15KV DUCTBANK CONSISTING OF SIXTEEN (16) 5" CONDUITS. SEE DETAIL SHEET 9.2.7 FOR DUCTBANK CONSTRUCTION DETAILS.
 - 2 NEW ELECTRIC MANHOLE. SEE ARCHITECTURAL PLANS FOR MANHOLE CONSTRUCTION DETAILS.
 - 3 SEE SHEET 9.2.4 FOR CONTINUATION.
 - 4 DUCTBANK TO BE SLOPED TO NEAREST MANHOLE TO ALLOW WATER SEEPAGE INTO CONDUITS TO DRAIN BACK TO MANHOLE.
 - 5 CONNECT NEW DUCTBANK TO STUBBED-OUT SPARE CONDUITS FROM EXISTING ELECTRIC MANHOLE.
 - 6 RUN 2 #2'S AND 1 #6 GND IN 1 1/2" CONDUIT BETWEEN MANHOLES FOR LIGHTING AND RECEPTACLE POWER.
 - 7 NEW 12"X15" ELECTRIC MANHOLE. SEE ARCHITECTURAL PLANS FOR MANHOLE CONSTRUCTION DETAILS.
 - 8 NEW DUCTBANK CONSISTING OF TWO 5" CONDUITS. SEE SHEET 9.2.7 FOR CONSTRUCTION DETAILS OF DUCTBANK.
 - 9 CONNECT NEW DUCTBANK TO EXISTING DUCTS STUBBED HERE FROM ALLIED HEALTH PROJECT.
 - 10 NEW FEEDER CONSISTING OF (3) #500 MCM'S (15KV) AND (1) #500 MCM GROUND ROUTED THROUGH NEW CONDUITS TO ALLIED HEALTH BLDG.
 - 11 CONNECT NEW FEEDER TO SPARE PRIMARY SWITCH IN ELECTRICAL VAULT. SEE RISER DIAGRAM DETAIL ON SHEET 9.2.7.
 - 12 INSTALL NEW 4-WAY SP6 SWITCH IN MANHOLE AND CONNECT RED2 CIRCUIT AS SHOWN IN DETAIL ON SHEET 9.2.7.
 - 13 NEW FEEDER CONSISTING OF (3) #500 MCM'S (15KV) AND (1) #500 MCM GROUND ROUTED THROUGH CONDUITS TO NEW SP6 SWITCH IN EXISTING MANHOLE E-8. SEE SHEET 9.2.7 FOR CONNECTION DETAILS.
 - 14 NEW COMMUNICATION DUCTBANK CONSISTING OF EIGHT (8) 4" CONDUITS AND FOUR (4) 1 1/2" TELEDUCTS. SEE DETAIL SHEET 9.3.4 FOR DUCTBANK CONSTRUCTION DETAILS.
 - 15 STUB OUT A NEW DUCTBANK CONSISTING OF FOUR 4" CONDUITS AND EIGHT 1 1/2" TELEDUCTS TEN FEET FROM MANHOLE AND CAP. CONSTRUCT PER DETAILS ON SHEET 9.3.4.
 - 16 STUB OUT A NEW DUCTBANK CONSISTING OF FOUR 5" CONDUITS TWENTY FEET FROM MANHOLE AND CAP. ROUTE THESE CONDUITS UNDER THE NEW COMMUNICATIONS DUCTBANK. CONSTRUCT PER DETAILS ON SHEET 9.3.4.
 - 17 NEW 8"X8" COMMUNICATIONS MANHOLE. SEE SHEET 9.3.3 FOR MANHOLE CONSTRUCTION DETAILS.
 - 18 FORM DUCTBANK ADJACENT TO 15KV DUCTBANK WHEREVER POSSIBLE. SEE DETAIL ON SHEET 9.3.4.
 - 19 SEE SHEET 9.2.6 FOR CONTINUATION.
 - 20 INTERCEPT EXISTING DUCTBANK AND INSTALL A NEW 8"X8" COMMUNICATIONS MANHOLE. SEE SHEET 9.3.3 FOR MANHOLE CONSTRUCTION DETAILS.

NOTE:
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ELECTRICAL SITE PLAN - SECTION "F"
 SCALE: 1" = 20'



AREA #4 - LIMESTONE

LEGEND DOCUMENTS OR

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 ARCHITECTURE, ENGINEERING, PLANNING, INTERIORS, LANDSCAPE ARCHITECTURE
 300 S. BRADLEY
 LEXINGTON, KENTUCKY 40517

CJM
 CHRISTIAN - MILLER - WOODFORD - INC.
 ARCHITECTURE, ENGINEERING, PLANNING, INTERIORS, LANDSCAPE ARCHITECTURE
 300 S. BRADLEY
 LEXINGTON, KENTUCKY 40517

SE
 Staggs and Fisher
 Consulting Engineers, Inc.
 3204 Lockwood Drive
 Lexington, Kentucky 40517

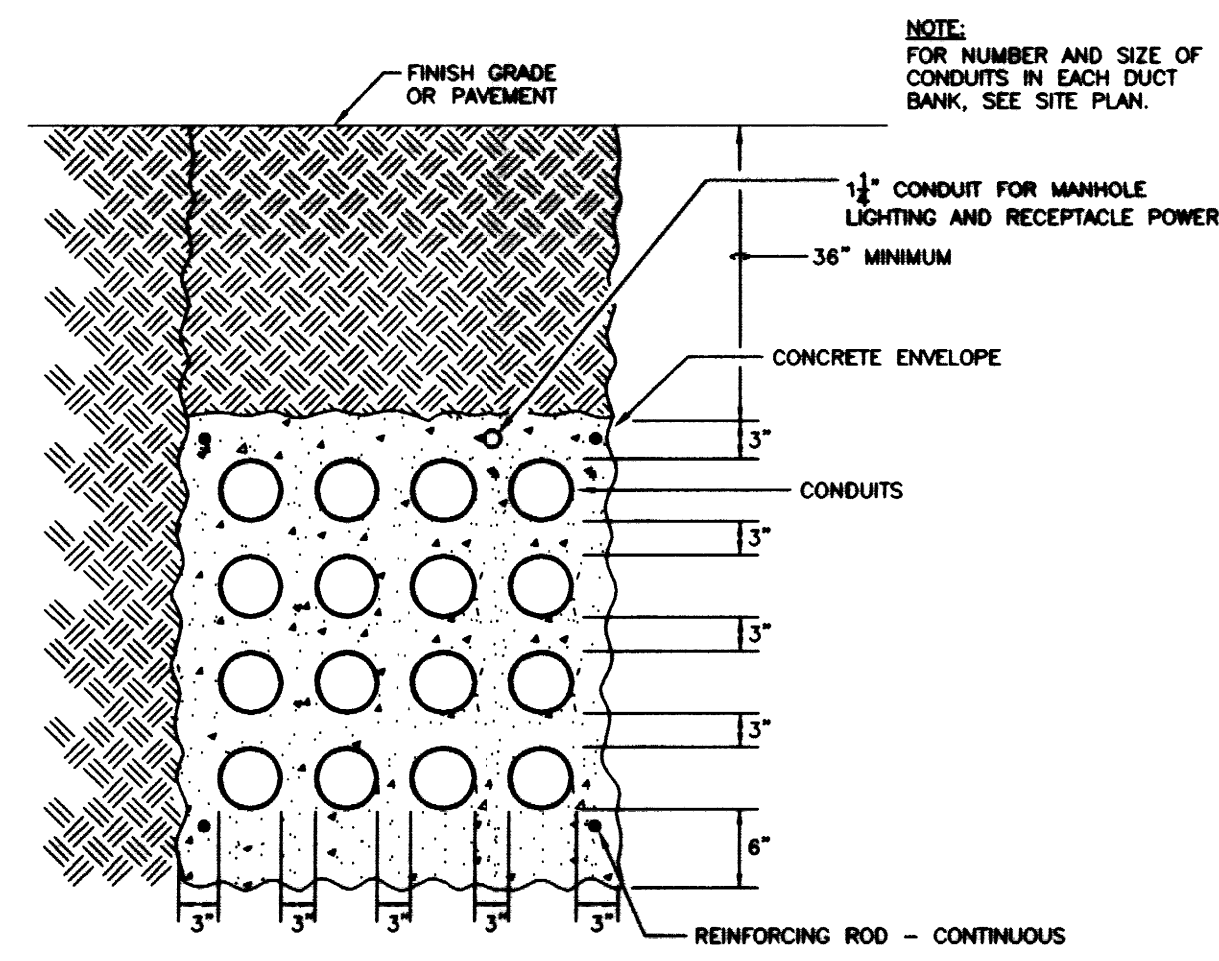
ELECTRICAL SITE PLAN - SECTION "F"
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

DATE: DECEMBER 2000
 DRAWN BY: WVP
 CHECKED BY: GGC
 REVISED: DATE

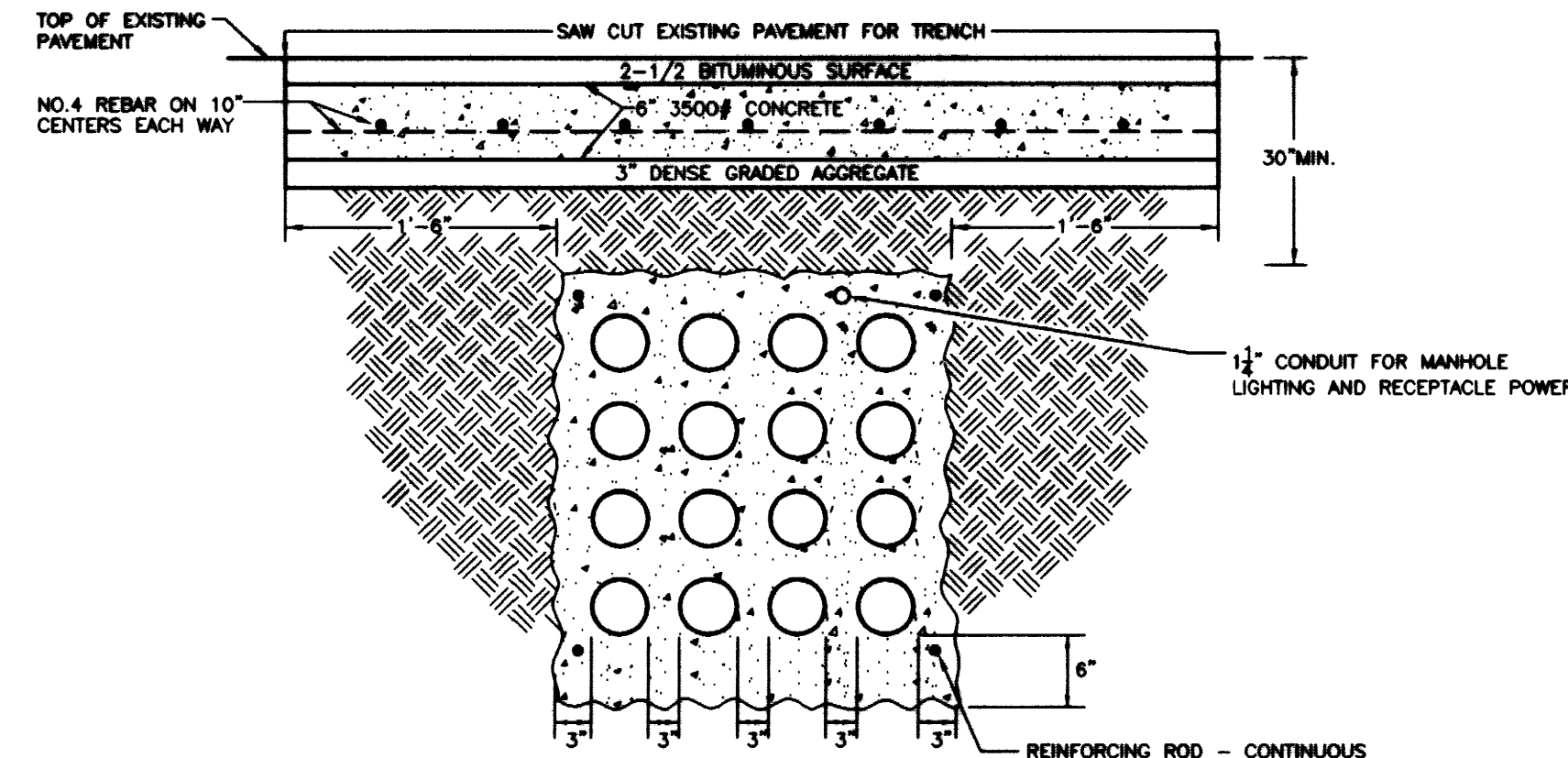
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PROJECT NUMBER
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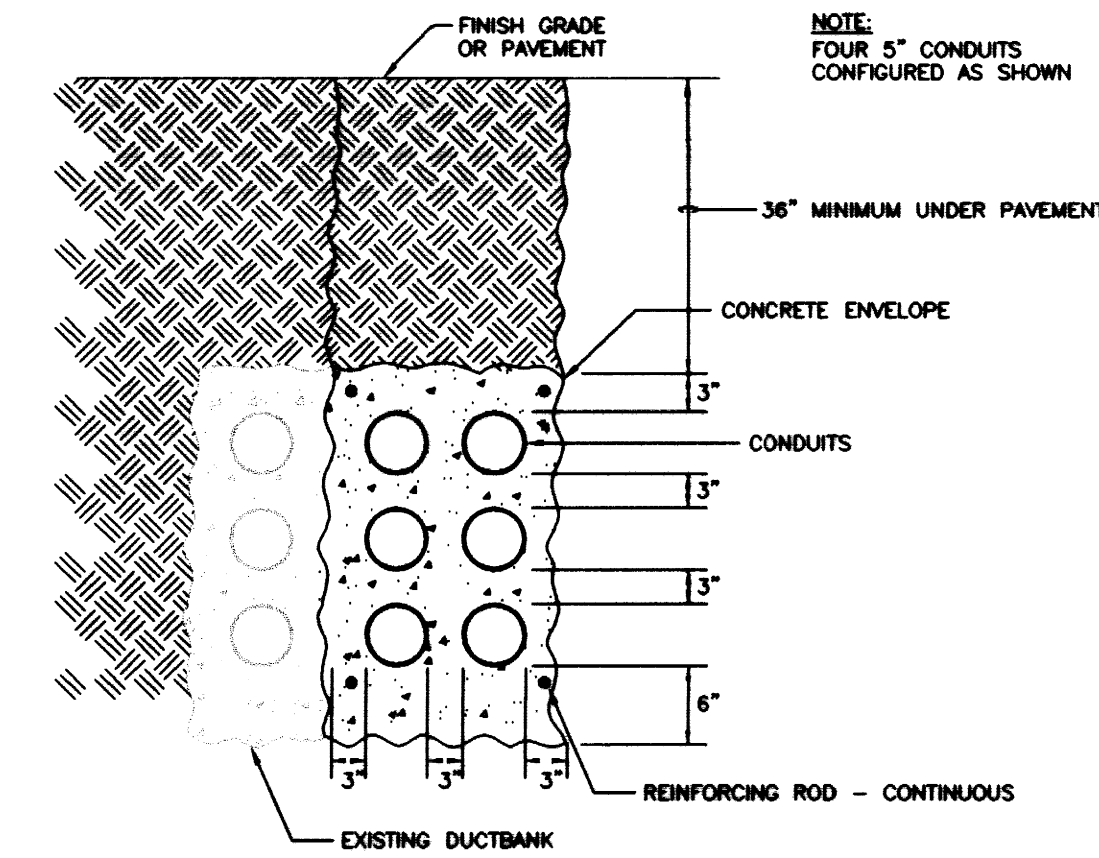
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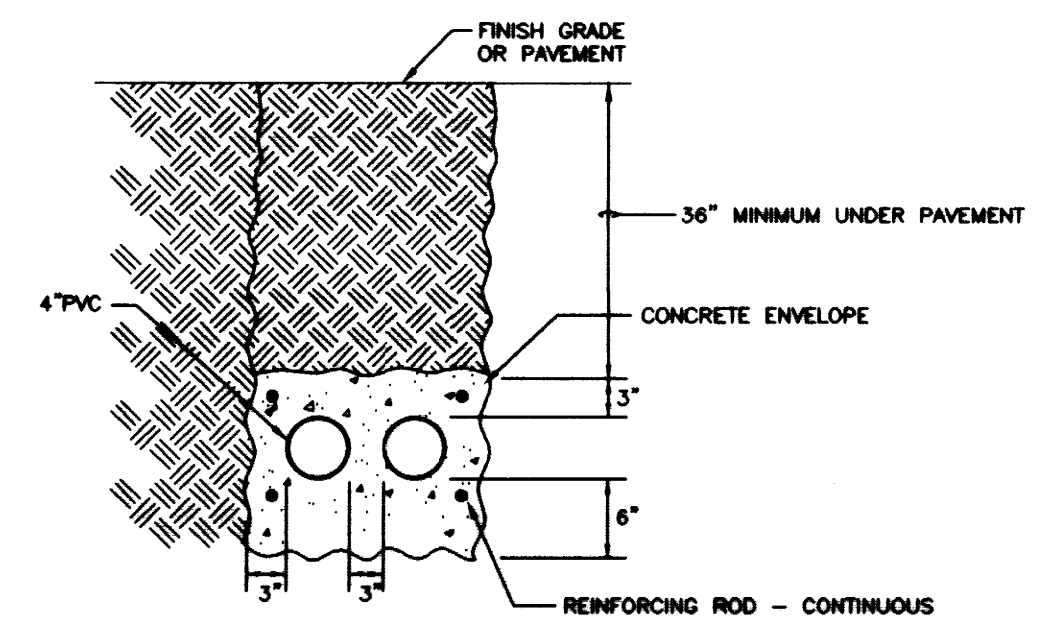
TYPICAL PRIMARY CONDUIT INSTALLATION DETAIL
NO SCALE



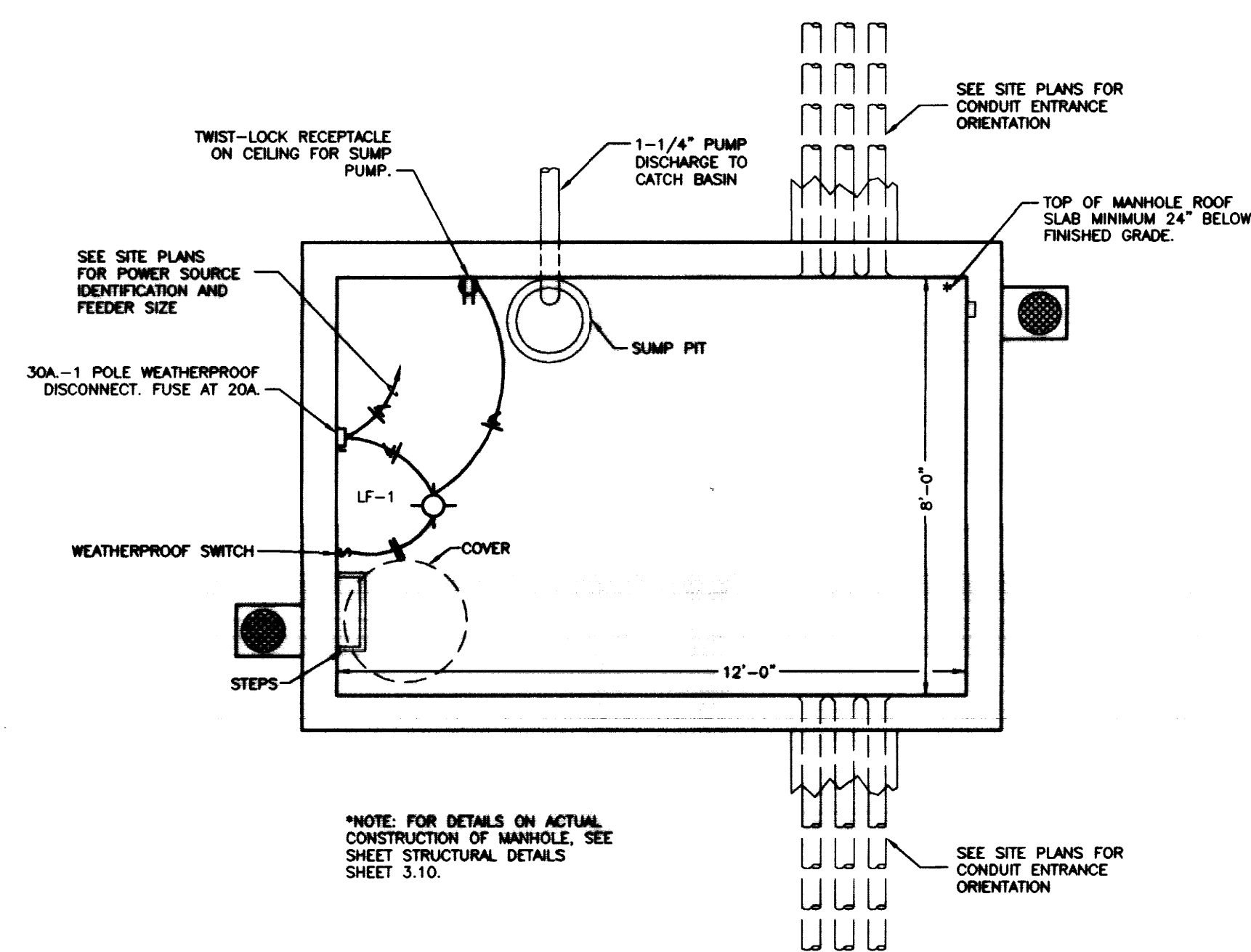
TYPICAL INSTALLATION DETAIL OF DUCTBANK UNDER ROADWAY
NO SCALE



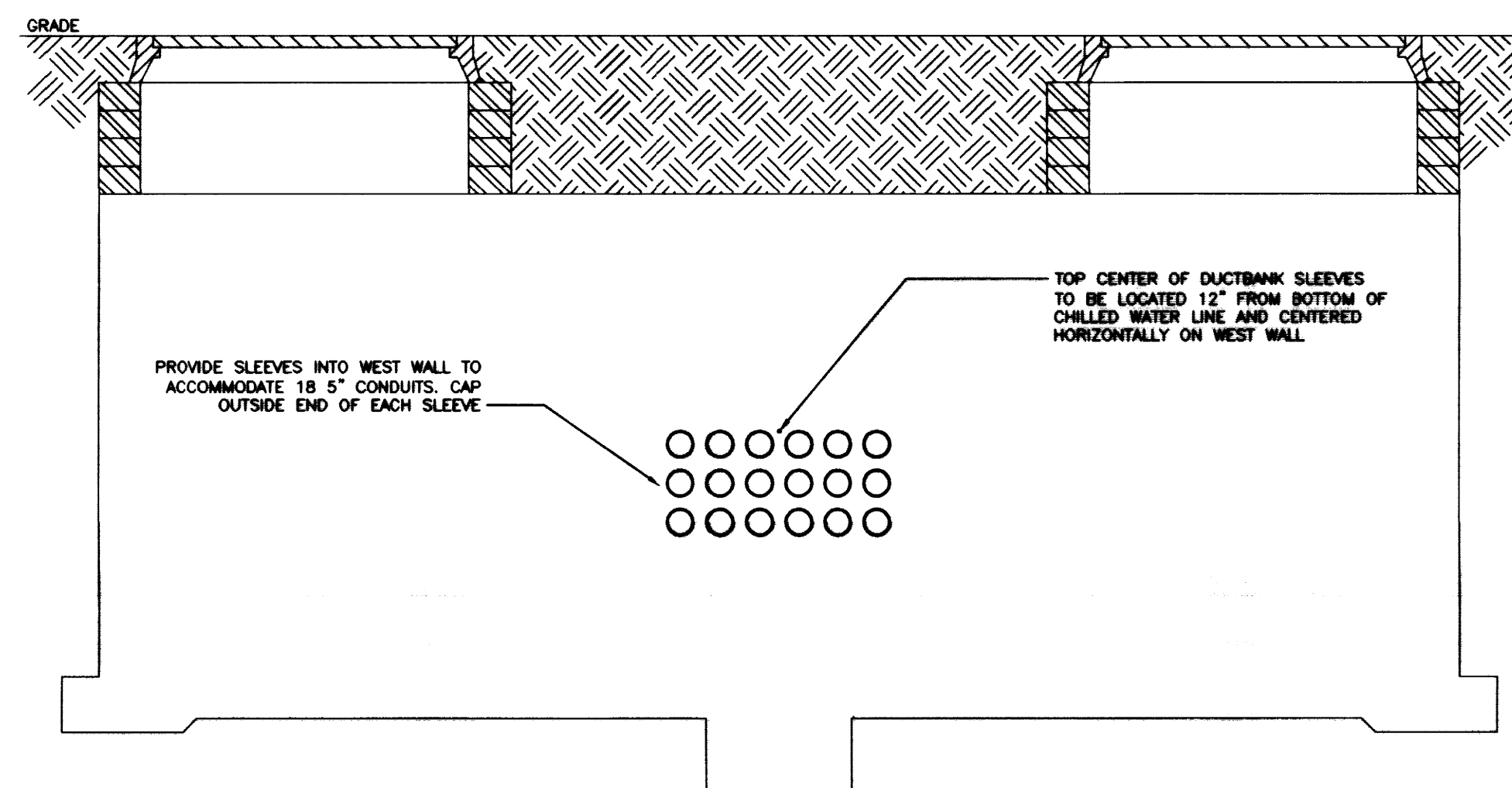
ADDITIONAL DUCTBANK INSTALLATION DETAIL BETWEEN MANHOLES 102 AND 103
NO SCALE



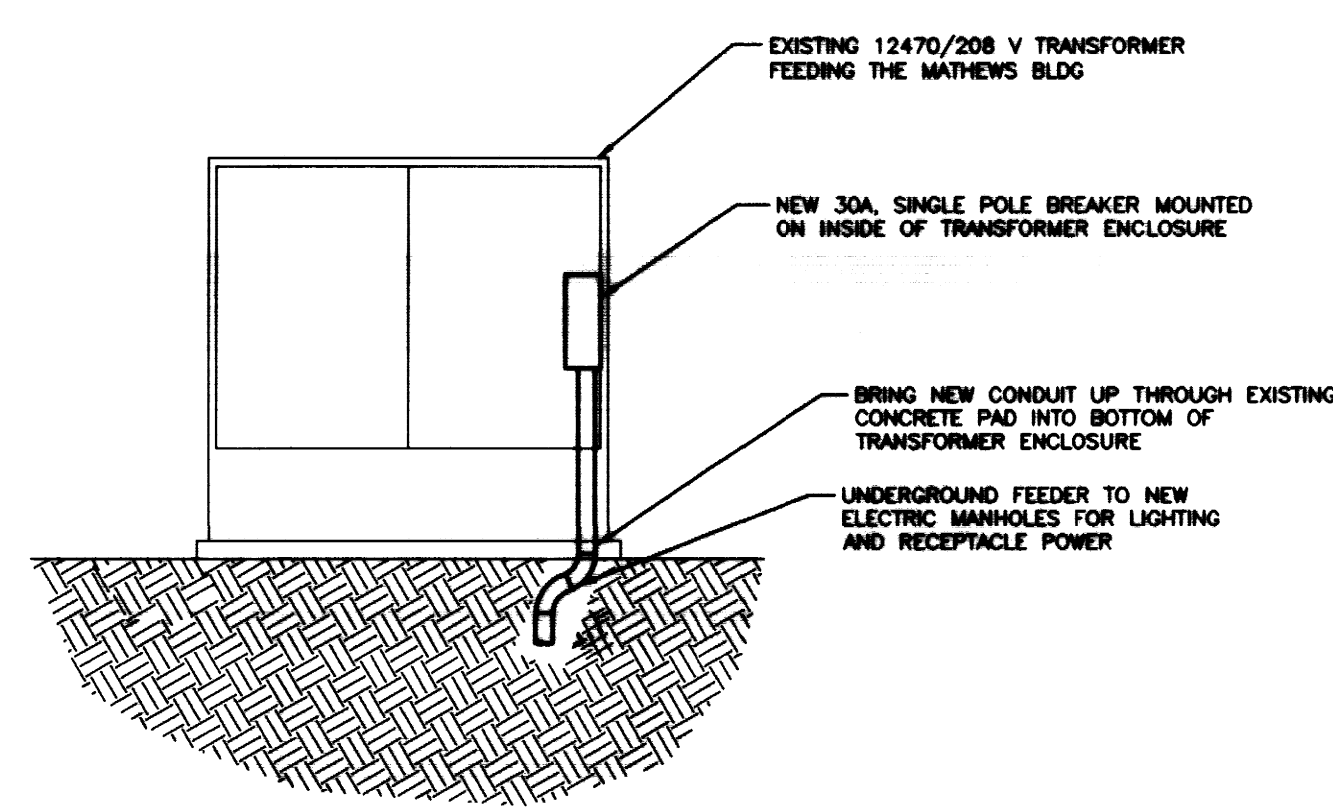
ALLIED HEALTH PRIMARY CONDUIT INSTALLATION DETAIL
NO SCALE



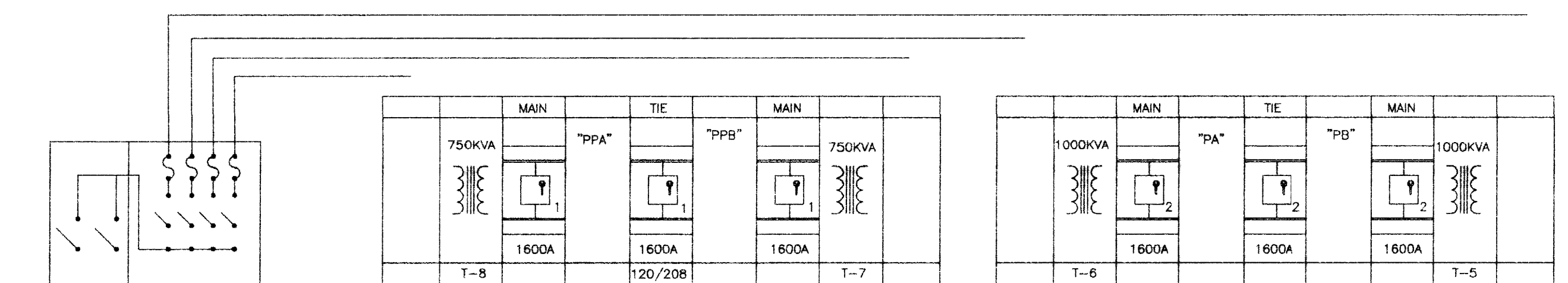
PUMP, LIGHT, & ELECTRIC LOCATIONS IN MANHOLE DETAIL
NO SCALE



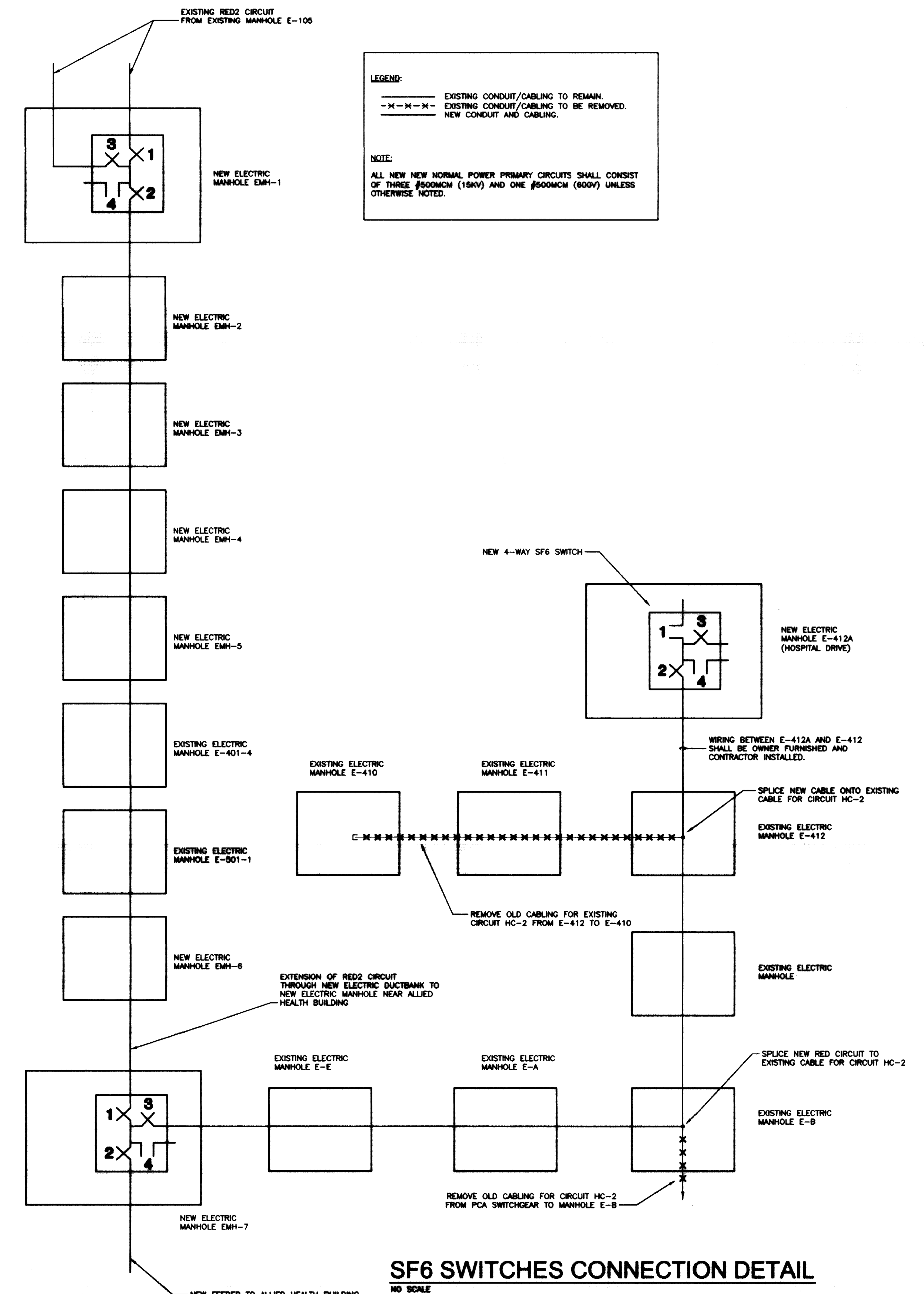
LOCATION OF SLEEVES FOR FUTURE DUCTBANK ON WEST WALL OF NEW 10' X 18' ELECTRIC MANHOLE
NO SCALE



MANHOLE ELECTRIC POWER DISCONNECT MOUNTING DETAIL
SCALE: 1/4" = 1'-0"



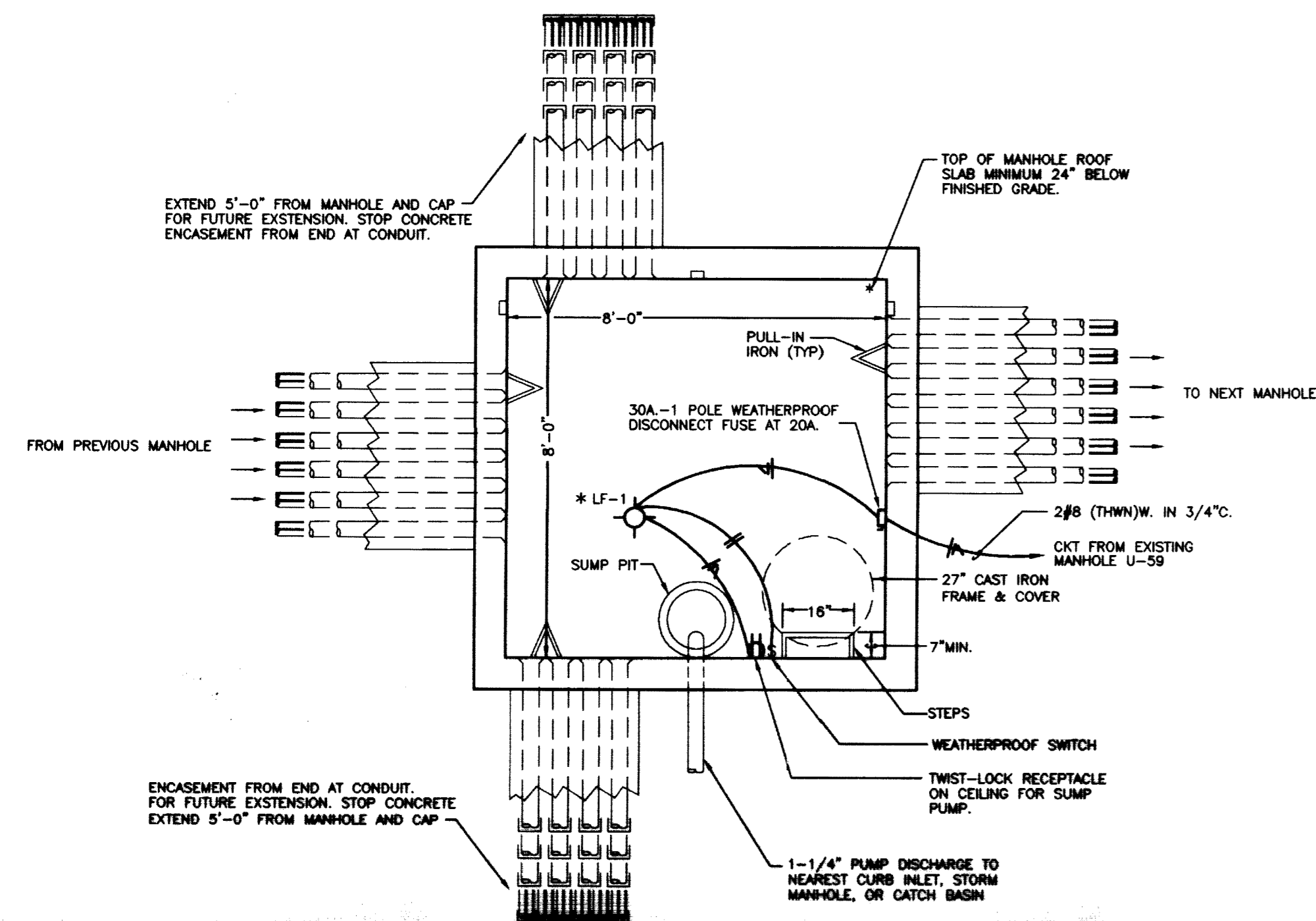
ALLIED HEALTH PRIMARY SWITCHGEAR CONNECTION DETAIL
NO SCALE



SF6 SWITCHES CONNECTION DETAIL
NO SCALE

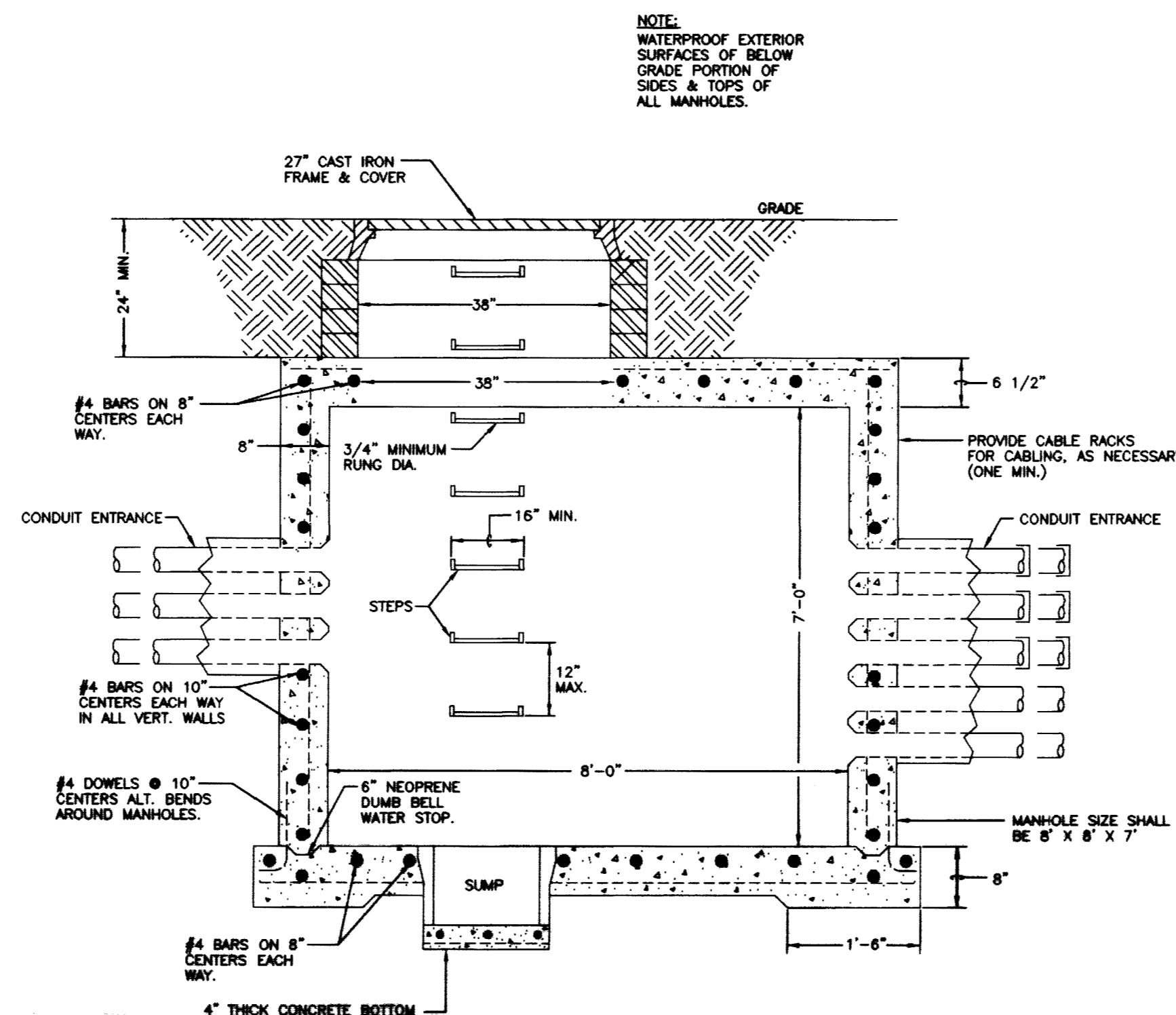
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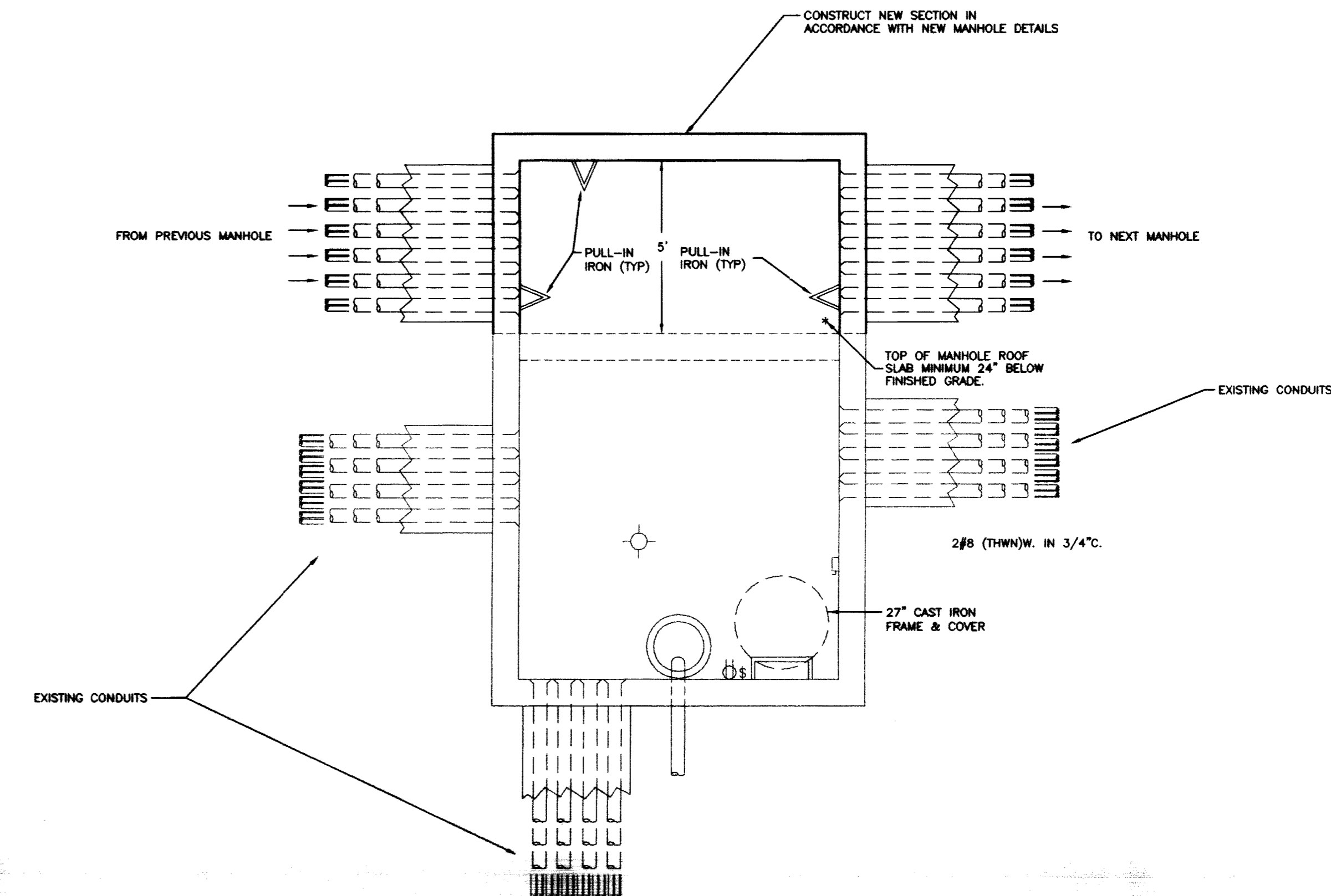


PLAN - NEW COMMUNICATION MANHOLE
NO SCALE

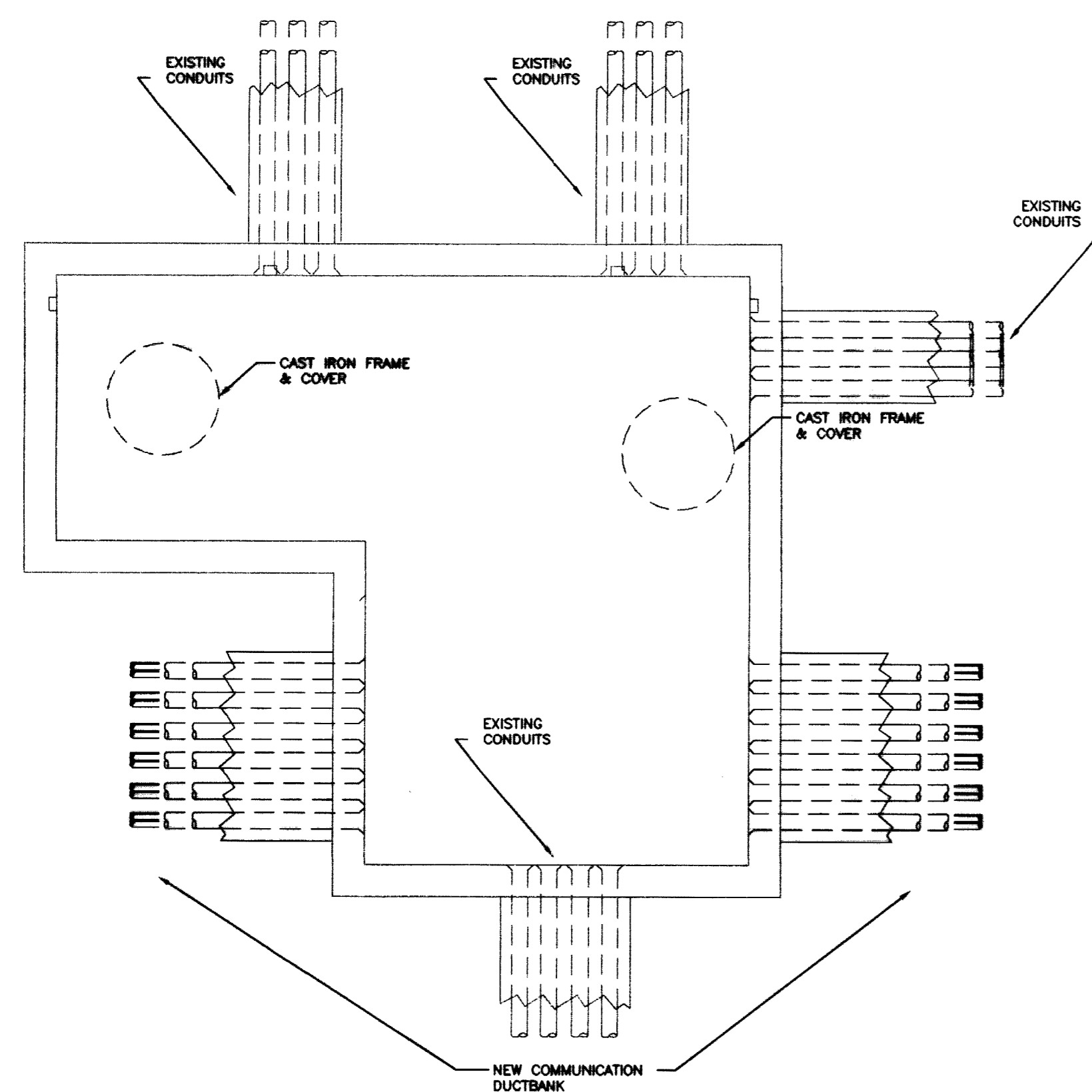
* SEE SHEET 9.1.7 FOR LIGHTING FIXTURE SCHEDULE.



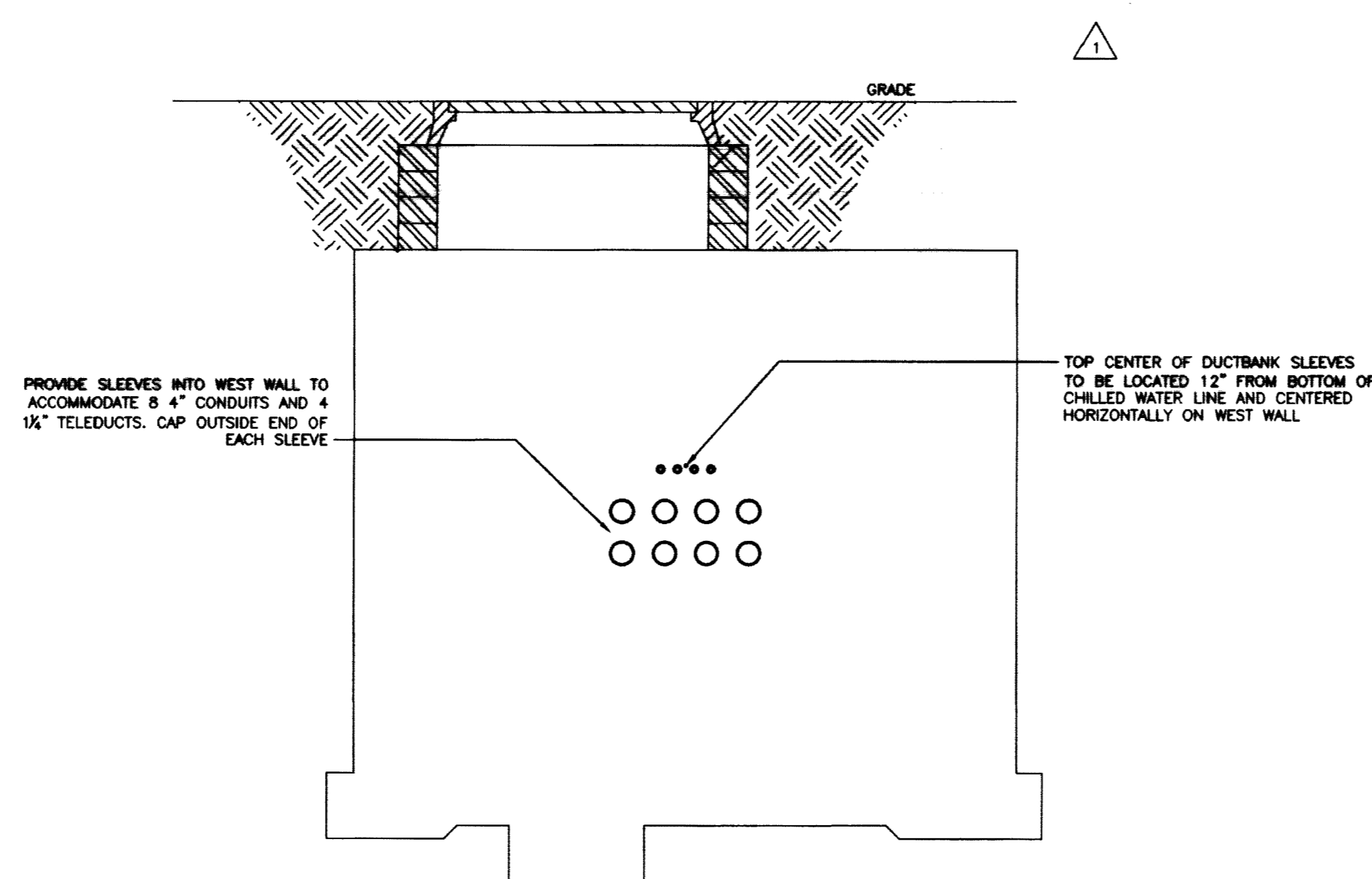
SECTION THROUGH NEW COMMUNICATION MANHOLE
NO SCALE



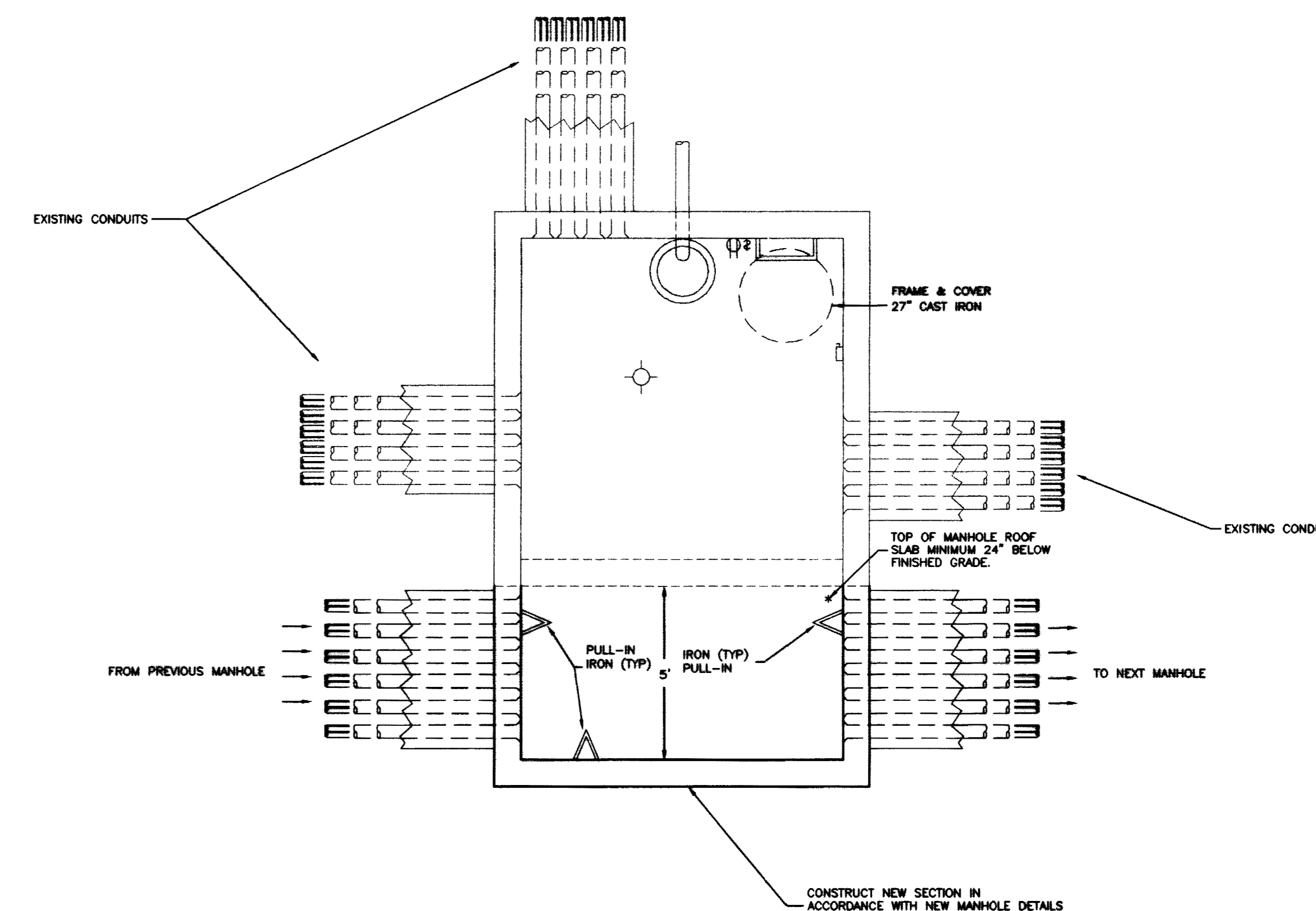
PLAN A - EXPANSION OF EXISTING COMMUNICATION MANHOLE
NO SCALE



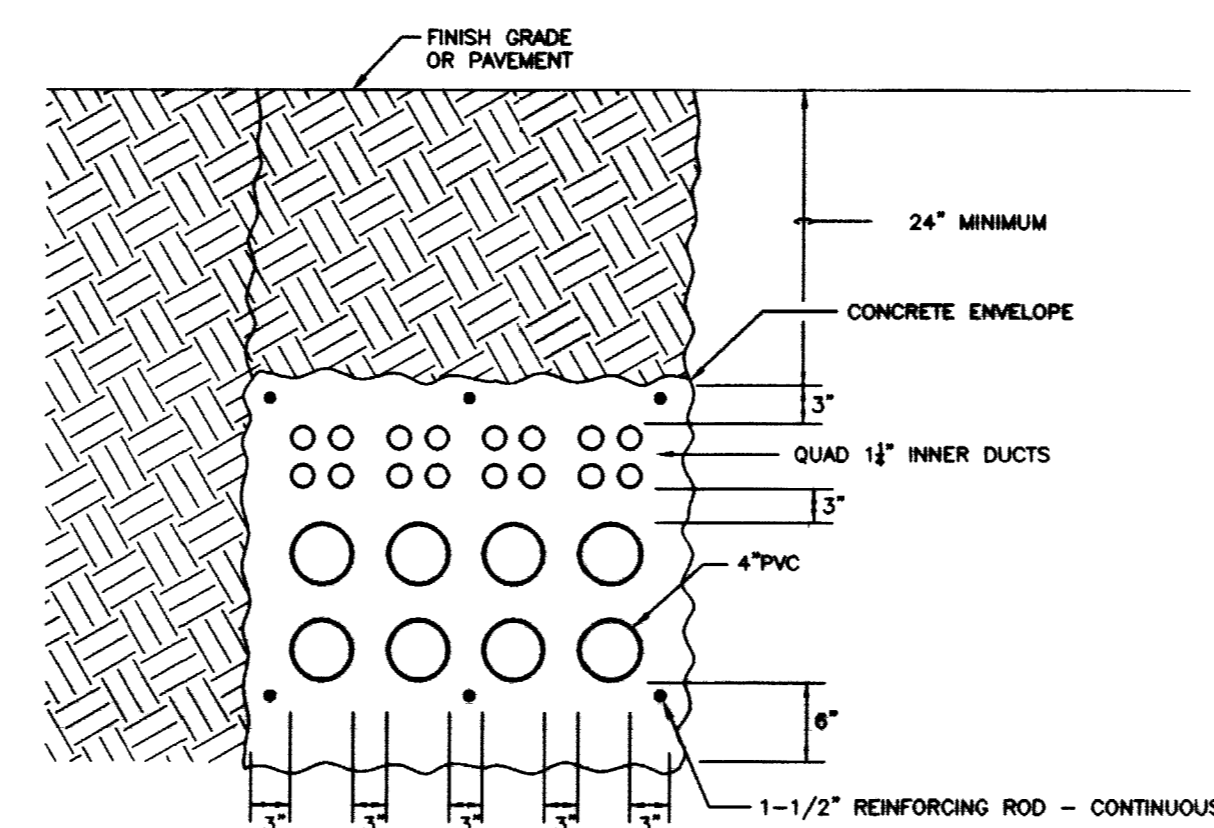
PLAN - EXISTING COMMUNICATION MANHOLE U-34/26
NO SCALE



LOCATION OF SLEEVES FOR FUTURE DUCTBANK ON WEST WALL OF NEW COMMUNICATIONS MANHOLE IN FRONT OF KY CLINIC
NO SCALE



PLAN B - EXPANSION OF EXISTING COMMUNICATION MANHOLE
NO SCALE



COMMUNICATION DUCTBANK INSTALLATION DETAIL FOR DUCTBANK BETWEEN KY CLINIC MANHOLE AND SANDERS-BROWN MANHOLE
NO SCALE

RECORD DRAWINGS DATE 11/10/03
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CJM
CHRISTIAN MILLER WOODFORD, INC.
ARCHITECTURE ENGINEERING PLANNING INTERIORS LANDSCAPE ARCHITECTURE
305 S. BROADWAY LEXINGTON, KENTUCKY 40517
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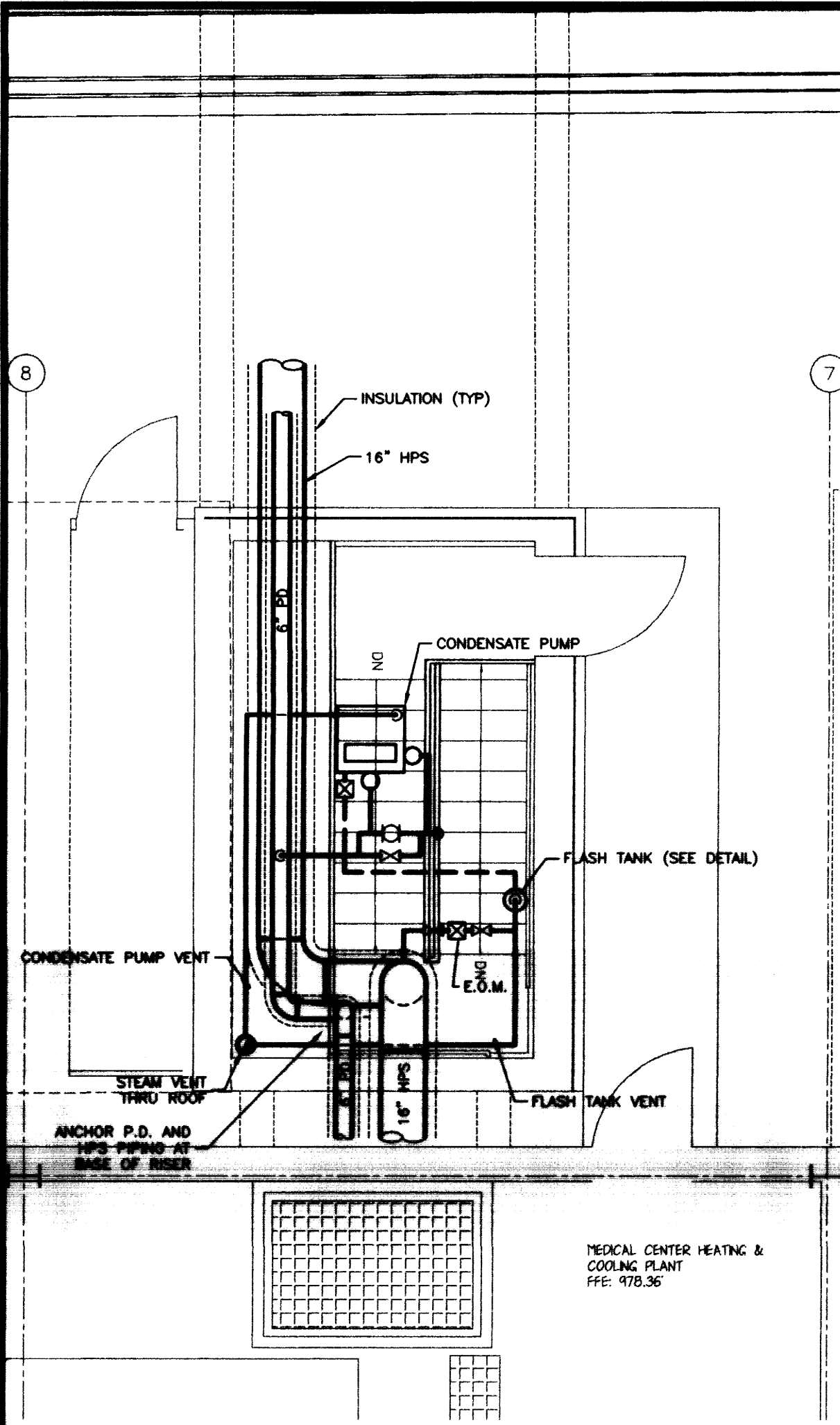
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Staggs and Fisher
Consulting Engineers, Inc.
305 S. BROADWAY LEXINGTON, KENTUCKY 40517
(606) 254-6622

REGISTERED PROFESSIONAL ENGINEER
STATE OF KENTUCKY
NO. 14715
EXPIRES 12/31/04

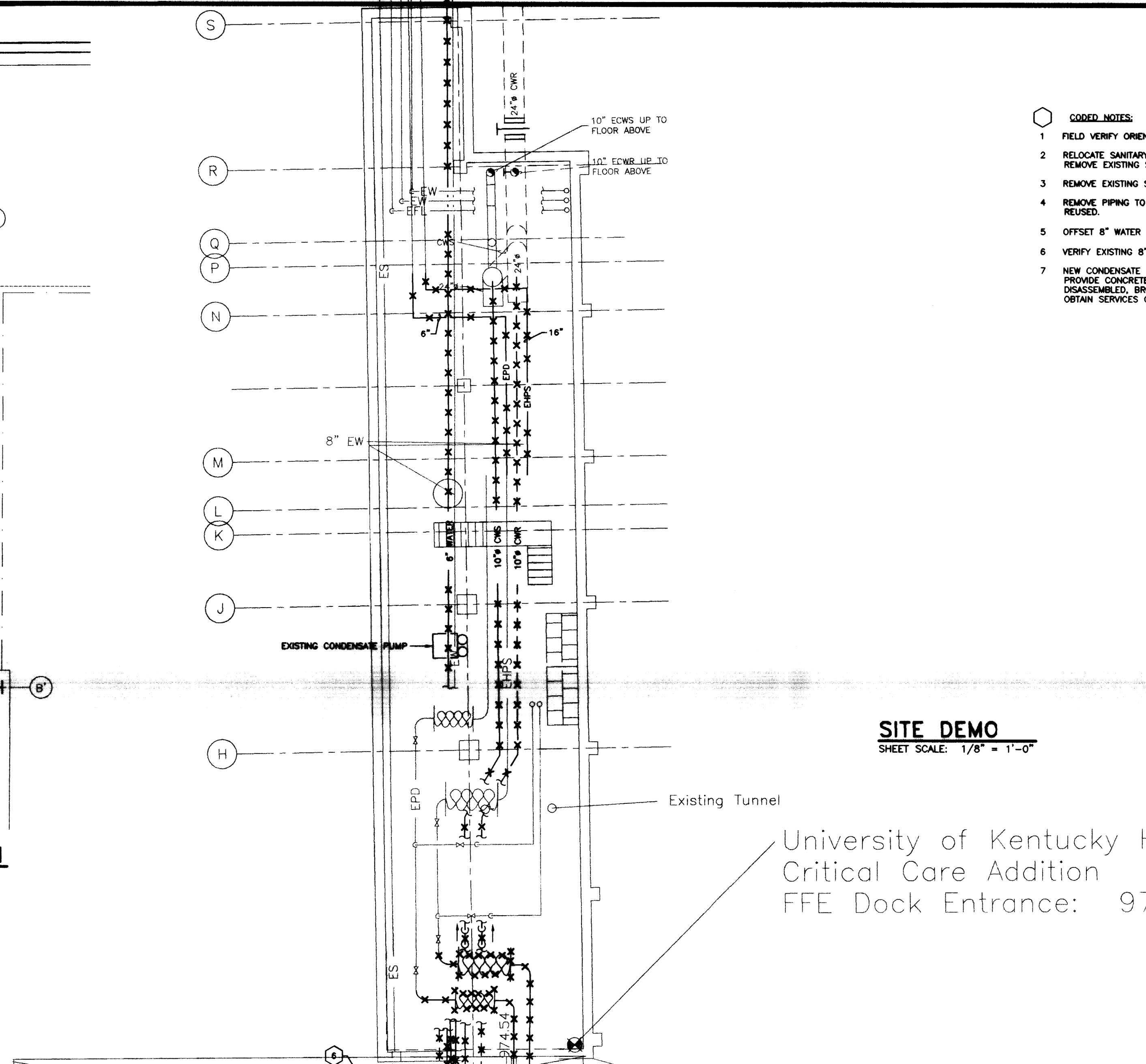
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DATE: [Date]

ELECTRICAL DETAILS
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE
DATE: DECEMBER 2000
DRAWN BY: wpw
CHECKED BY: ggc
REVISED:
DATE: 8/2/01 REVISION #1
SHEET NUMBER
9.3.3
PROJECT NUMBER
99024.02

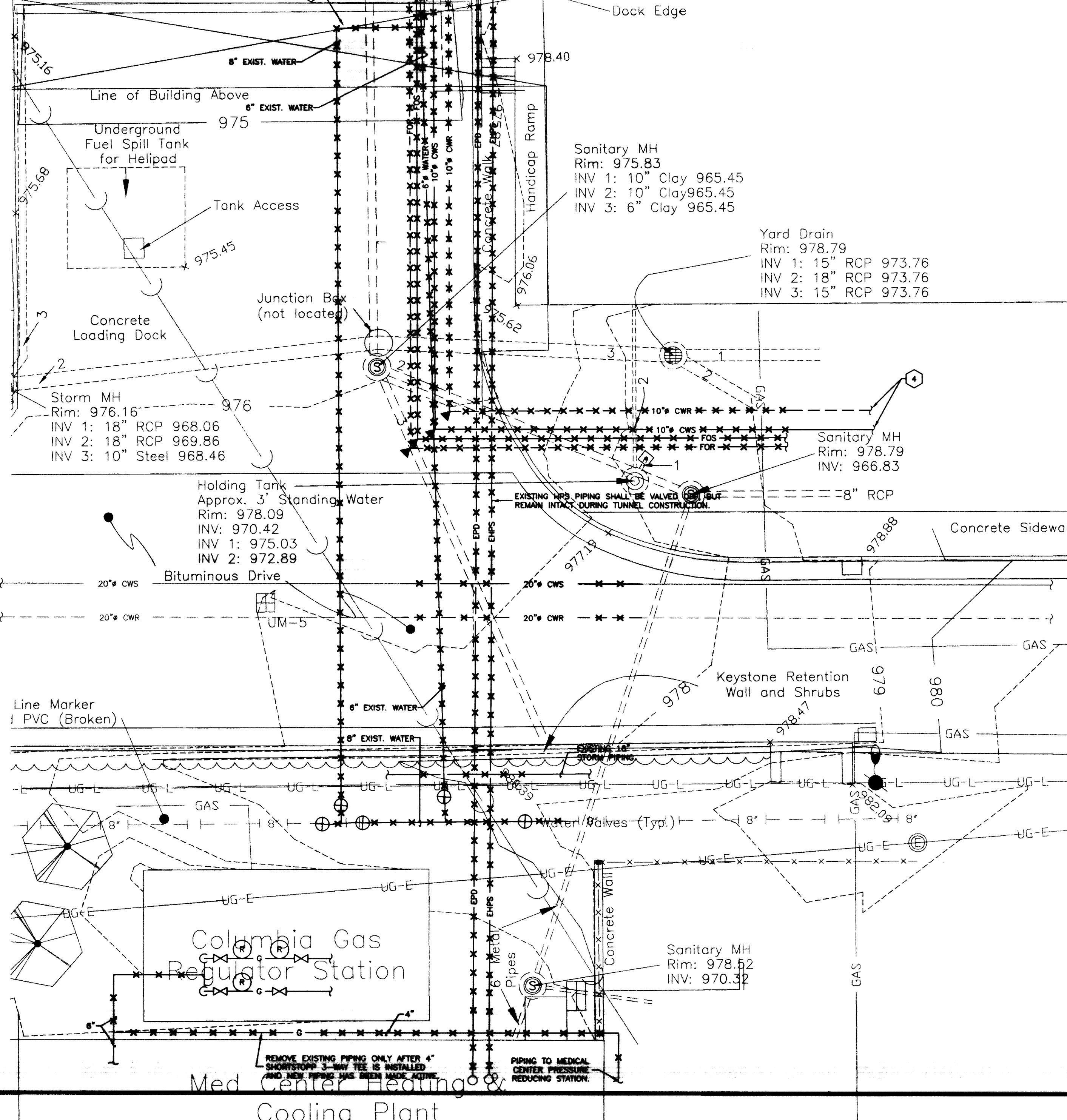


ENLARGED STAIR TOWER PIPING PLAN
SHEET SCALE: 1/4" = 1'-0"



SITE DEMO
SHEET SCALE: 1/8" = 1'-0"

University of Kentucky F
Critical Care Addition
FFE Dock Entrance: 97



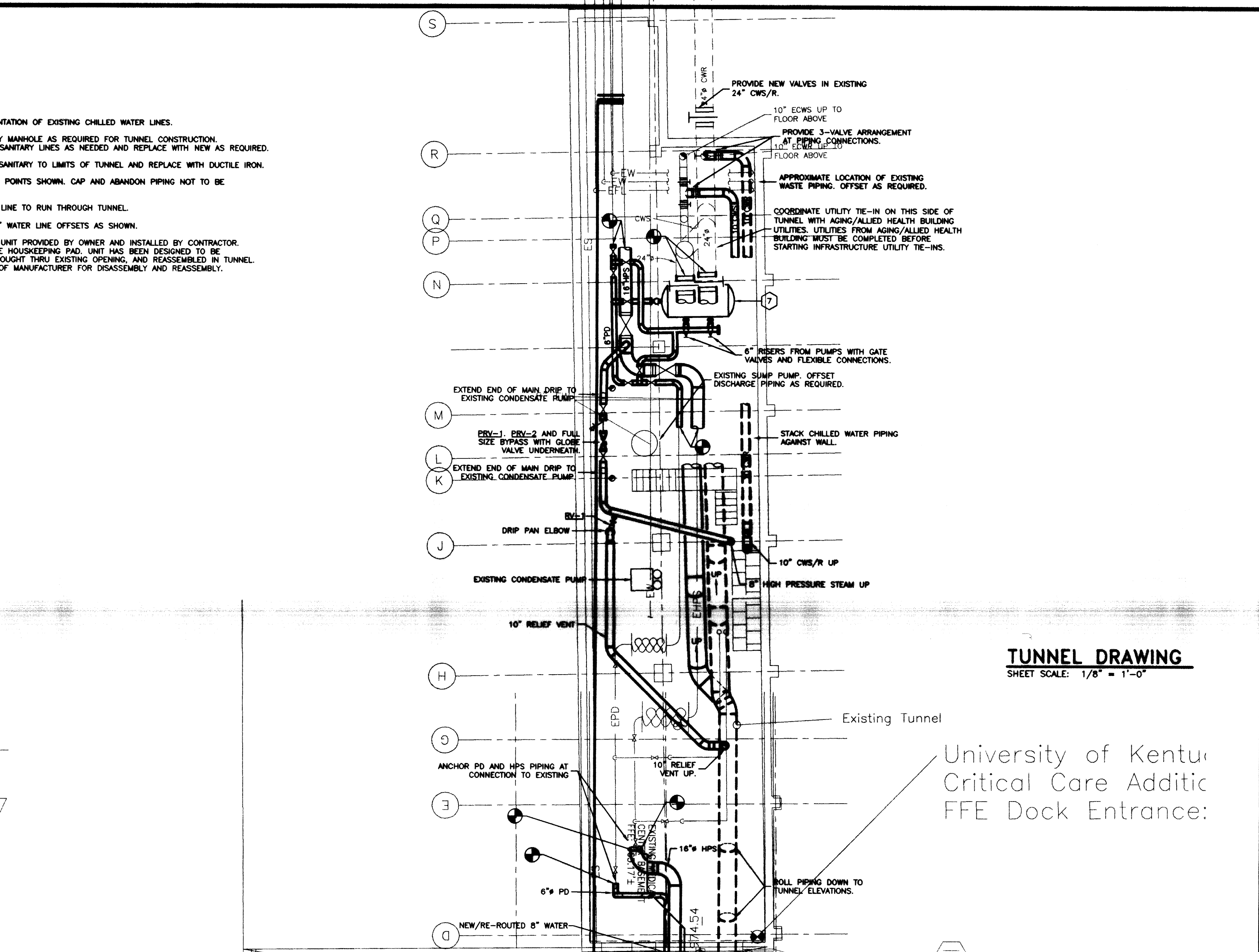
RECORD DRAWINGS DATE 11/10/03

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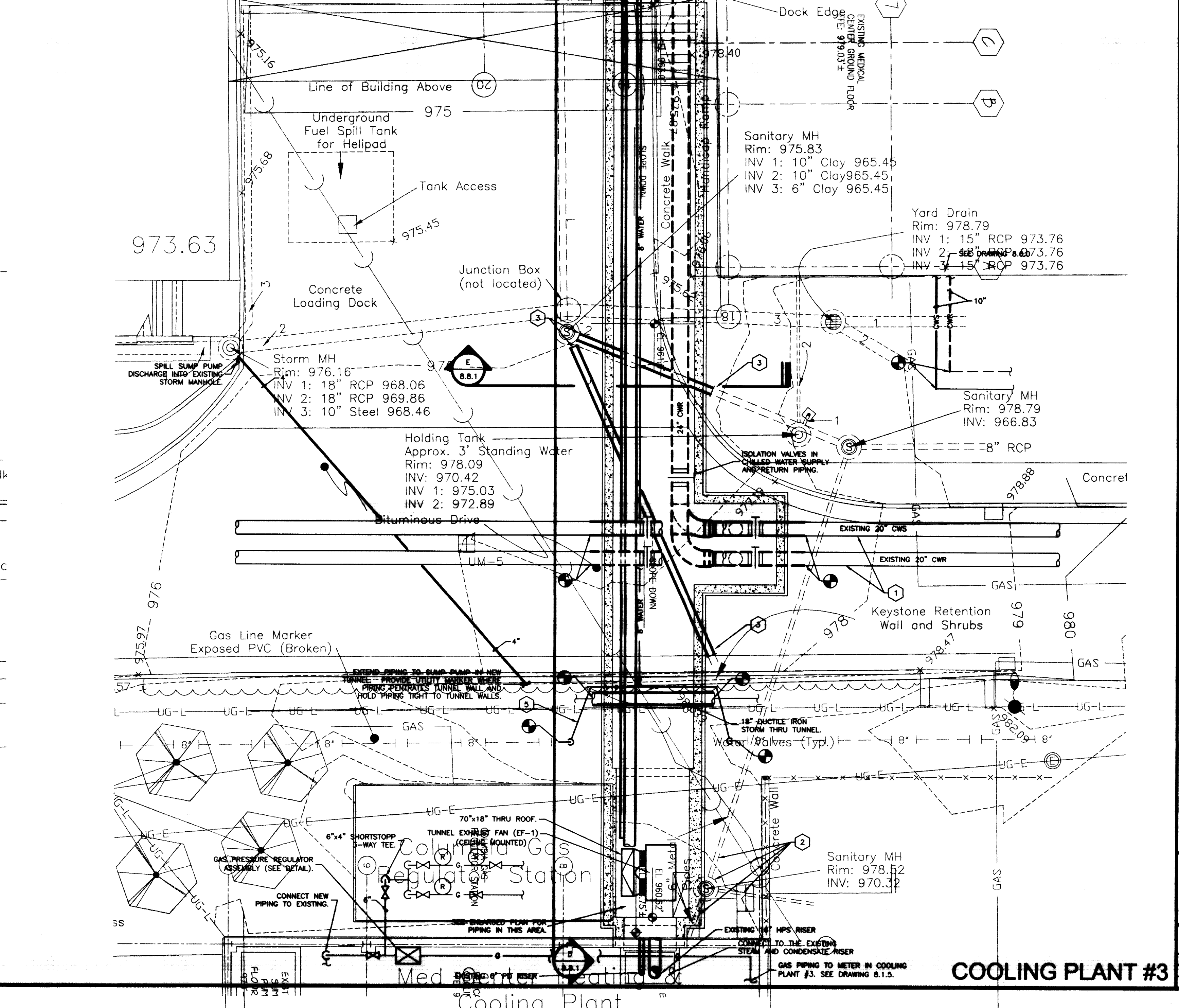
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REMOVE EXISTING PIPING ONLY AFTER 4\"/>



TUNNEL DRAWING
SHEET SCALE: 1/8" = 1'-0"

University of Kentucky
Critical Care Addition
FFE Dock Entrance:



COOLING PLANT #3

CJM
CHRISMAN - MILLER - WOODFORD - INC.
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STATE OF KENTUCKY REGISTERED PROFESSIONAL ENGINEER
CHRISMAN - MILLER - WOODFORD - INC.
No. 10000
EXPIRES 12/31/04

UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

COOLING PLANT #3 - H.V.A.C. DEMO NEW WORK - TUNNEL PLAN

SHT. PROJECT TITLE

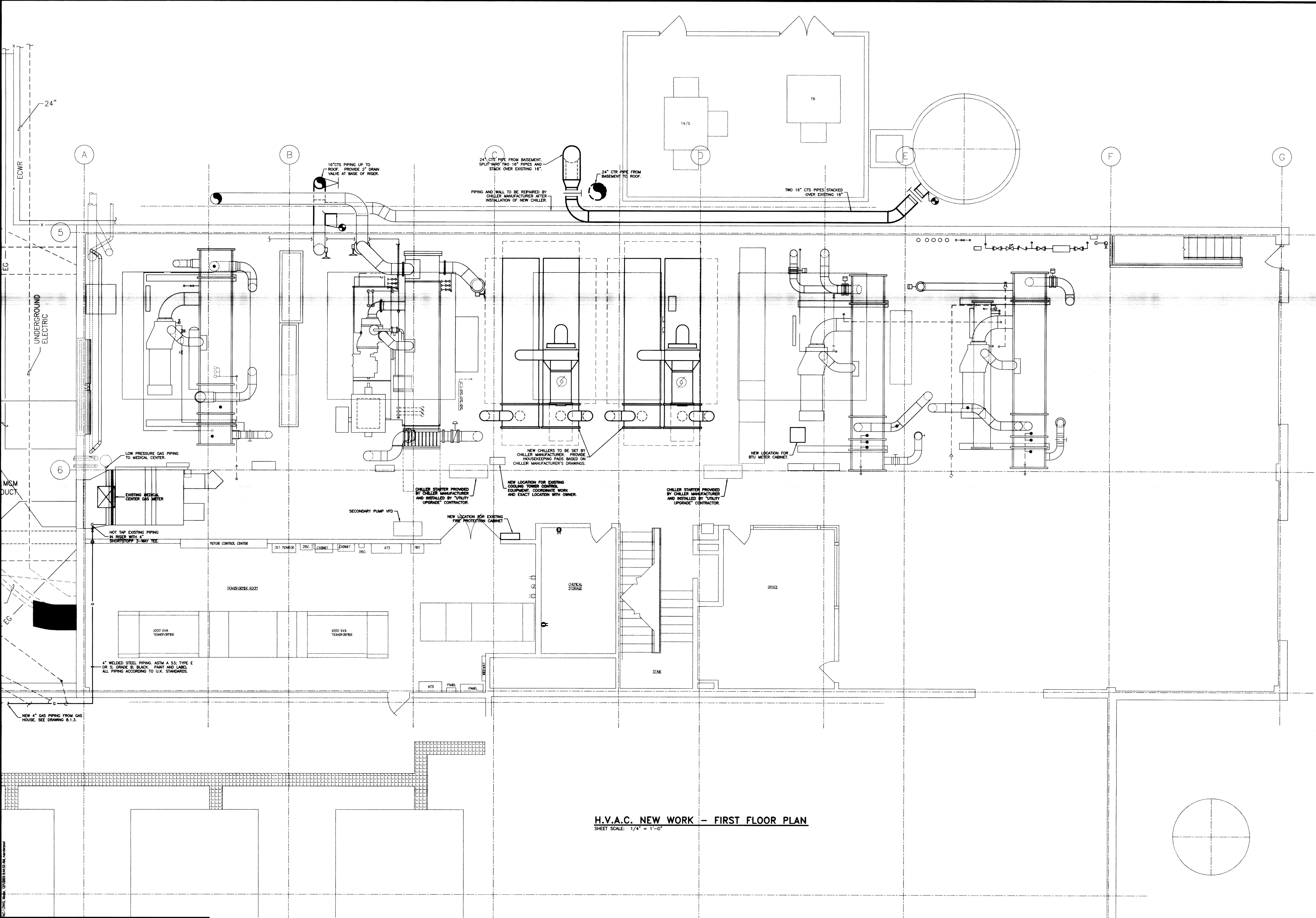
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DRAWN BY: MFD
CHECKED BY: COK
REVISED:

DATE: 12/30/01 ADDENDUM #1
1/24/01 COND PUMP
1/27/01 GAS PIPING
2/14/02 FIELD REV.

8.1.3

PROJECT NUMBER
99024.02

Proj # 174 Doc # 25488



H.V.A.C. NEW WORK - FIRST FLOOR PLAN
SHEET SCALE: 1/4" = 1'-0"

NOTE:
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RECORD DRAWINGS DATE 11/10/03
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STAGGS & FISHER CONSULTING ENGINEERS, INC.

FAILURE TO MAKE BY THE CONTRACTOR THE FOLLOWING: VERIFY ALL FIELD CONDITIONS AND CONDITIONS OF WORK BEFORE BEGINNING WORK; OBTAIN ALL NECESSARY PERMITS AND APPROVALS; MAINTAIN ACCESS TO ALL UTILITIES; PROTECT ALL EXISTING UTILITIES AND STRUCTURES; MAINTAIN CLEAR ACCESS TO ALL EXITS AND EGRESS ROUTES; MAINTAIN CLEAR ACCESS TO ALL SERVICE AREAS; MAINTAIN CLEAR ACCESS TO ALL MATERIAL STORAGE AREAS; MAINTAIN CLEAR ACCESS TO ALL WORK AREAS; MAINTAIN CLEAR ACCESS TO ALL MATERIAL STORAGE AREAS; MAINTAIN CLEAR ACCESS TO ALL WORK AREAS.

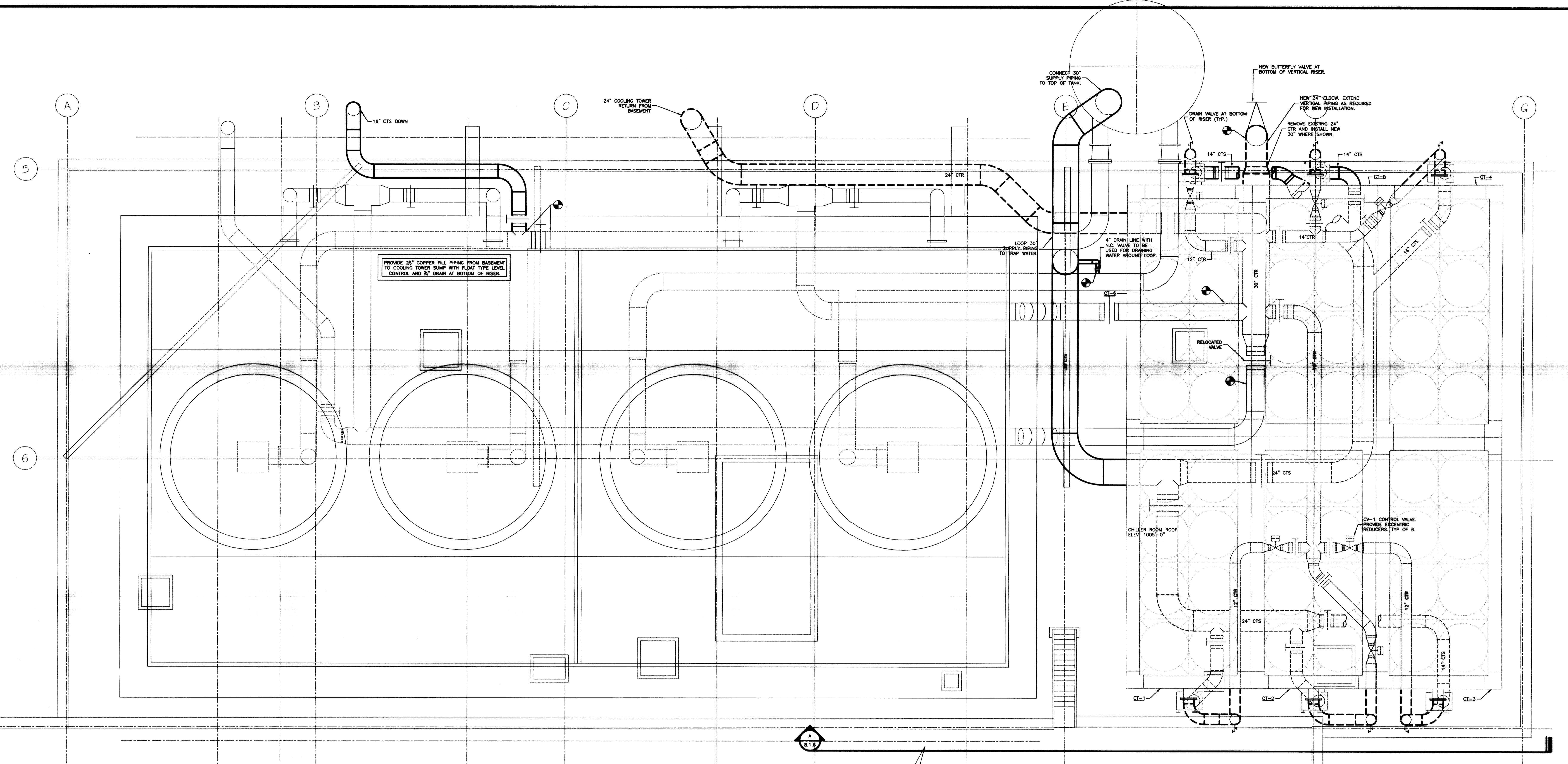
H.V.A.C. NEW WORK - FIRST FLOOR PLAN
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHT.	PROJECT TITLE
DATE	DECEMBER, 2000
DRAWN BY:	COK
CHECKED BY:	COK
REVISED:	
1	3/27/01 ADDENDUM
2	3/27/01 ADDENDUM
3	4/23/01 STARTER RENT
4	12/4/01 ONE PIPING
SHEET NUMBER	
8.1.5	
PROJECT NUMBER	99024.02
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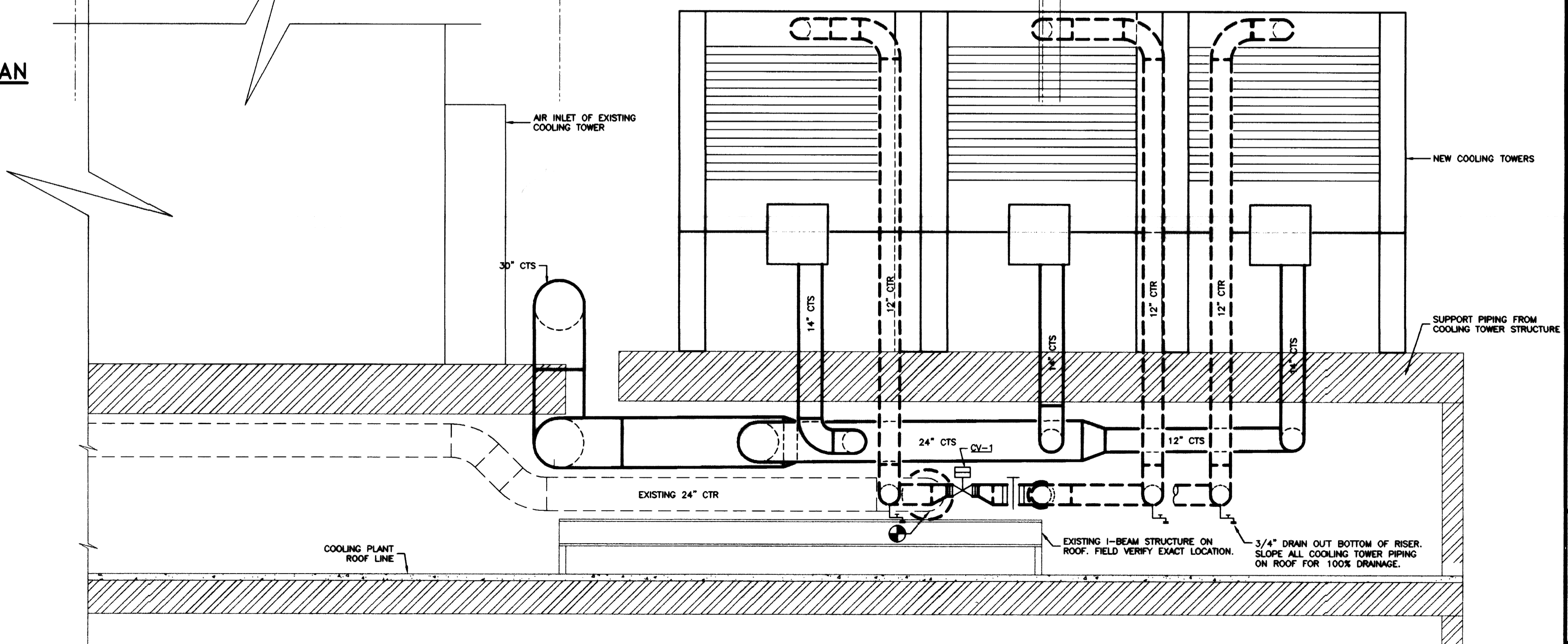
FAILURE TO MAKE BY THE CONTRACTOR TO OBTAIN NECESSARY PERMITS OR TO OBTAIN NECESSARY APPROVALS FROM THE LOCAL, STATE OR FEDERAL AGENCIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER'S RESPONSIBILITY IS LIMITED TO THE DESIGN AND CONSTRUCTION OF THE WORK SHOWN ON THIS DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE OR FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL, STATE OR FEDERAL AGENCIES.

H.V.A.C. NEW WORK - ROOF PLAN
 UTILITY UPGRADE - PHASE 1
 UNIVERSITY OF KENTUCKY
 LEXINGTON, KENTUCKY

SHT: PROJECT TITLE
 DATE: DECEMBER, 2000
 DRAWN BY: COK
 CHECKED BY: COK
 REVISED:
 DATE: 3/2/01 ADDENDUM
 8/2/01 SHOP DRAWING
 2/2/02 FIELD REV
 2/11/02 FIELD REV
 SHEET NUMBER
8.1.6
 PROJECT NUMBER
 99024.02
 SHEET NUMBER
 174 C-1 25491
 Cab # 174 C-1 25491
 Document



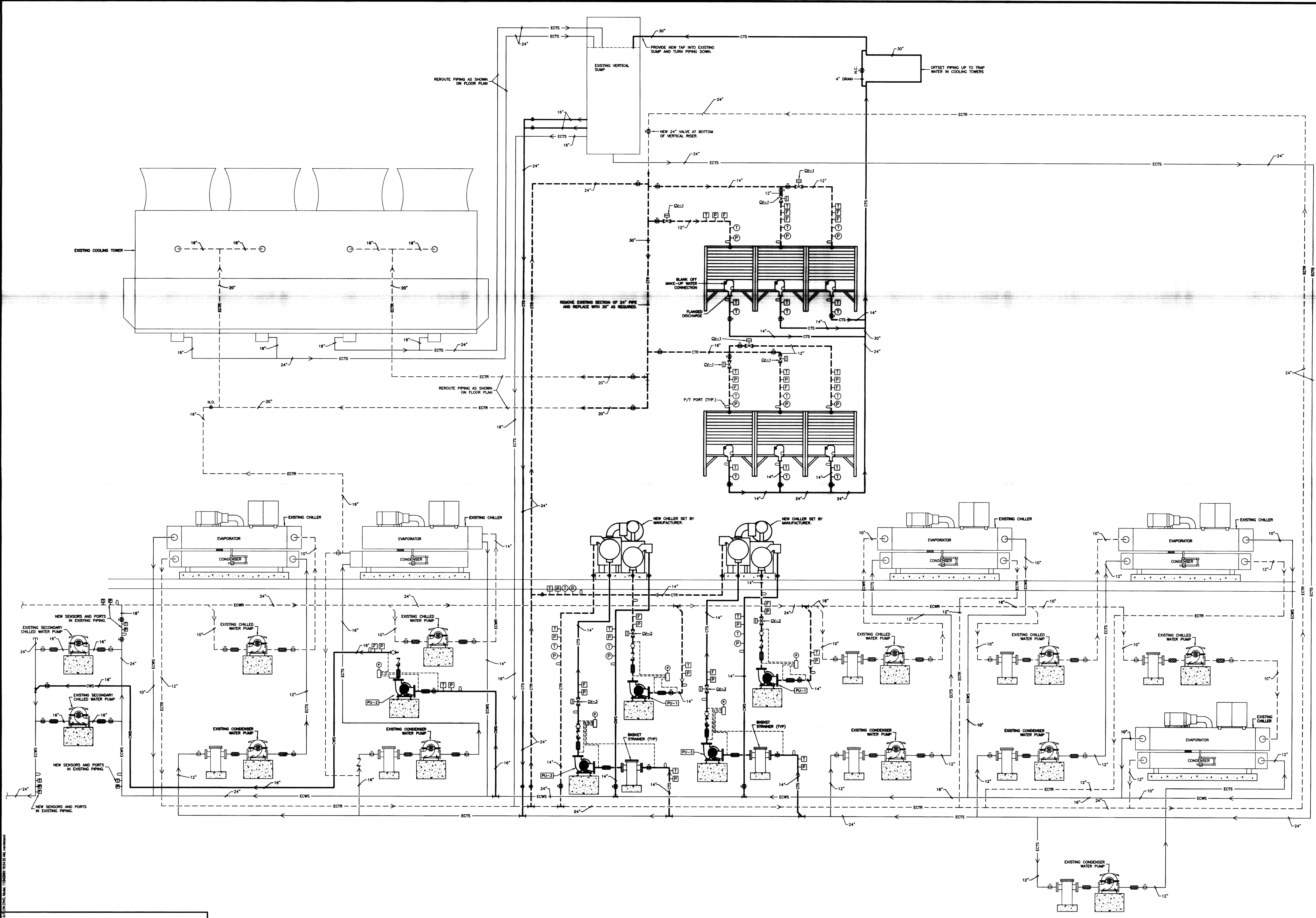
H.V.A.C. NEW WORK - ROOF PLAN
 SHEET SCALE: 1/4" = 1'-0"



COOLING TOWER SECTION
 SHEET SCALE: 1/4" = 1'-0"

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 STAGGS & FISHER CONSULTING ENGINEERS, INC.



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STAGGS & FISHER CONSULTING ENGINEERS, INC.

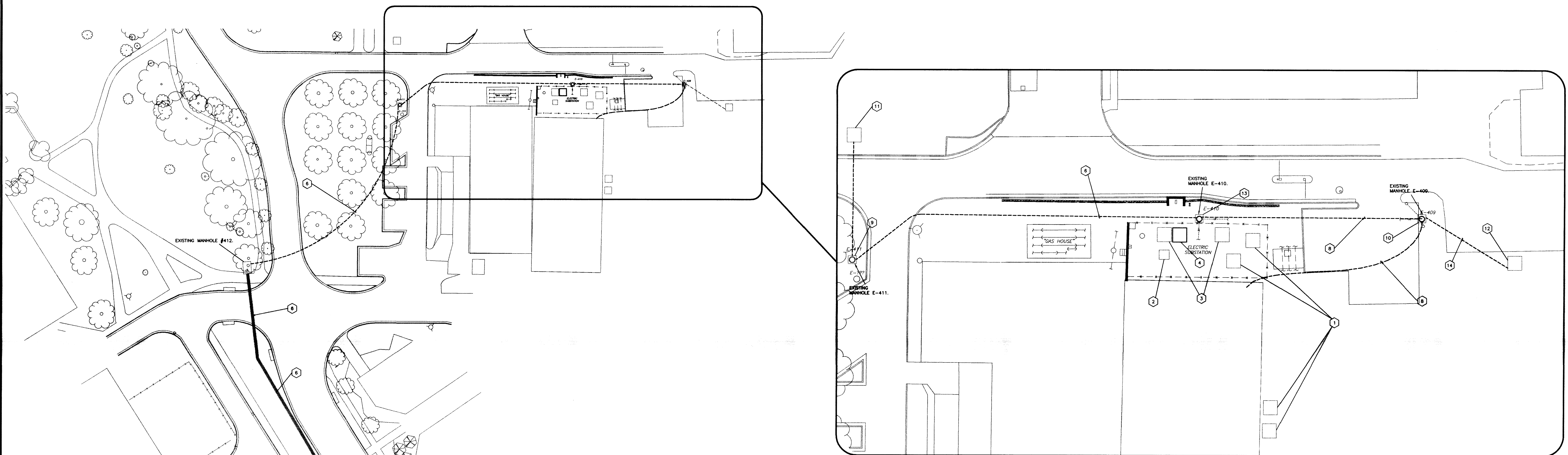
FAILURE TO ADHERE TO THESE CONDITIONS MAY BE CAUSE FOR THE ENGINEER TO WITHDRAW FROM THE PROJECT AND TO TAKE ALL NECESSARY AND APPROPRIATE ACTION TO PROTECT HIS INTERESTS AND THE INTERESTS OF HIS CLIENTS. THE ENGINEER'S LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED BY HIM OR HIS FIRM. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACTIONS OR OMISSIONS OF ANY OTHER PROFESSIONAL ENGINEERS OR ARCHITECTS WHOSE SERVICES ARE USED IN CONNECTION WITH THIS PROJECT. CONTACT WITH SUCH OTHER PROFESSIONALS IS THE RESPONSIBILITY OF THE CLIENT.

H.V.A.C. FLOW DIAGRAM
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

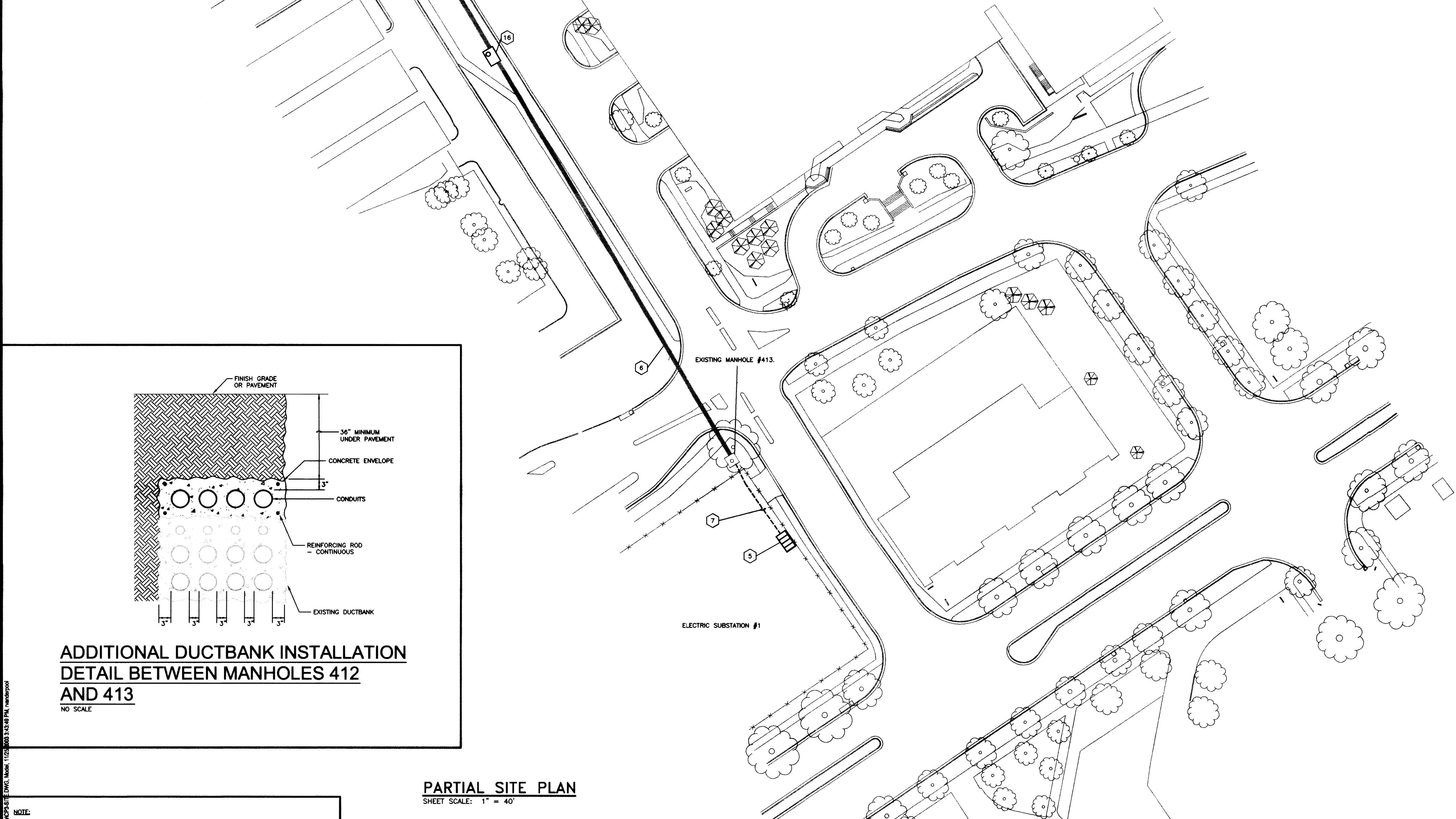
SHT. PROJECT TITLE
 DATE: DECEMBER 2000
 DRAWN BY: CCK
 CHECKED BY: CCK
 REVISED: DATE

SHEET NUMBER
8.1.7

PROJECT NUMBER
 99024.02



ALLIS CHALMER SUBSTATION DETAIL
SHEET SCALE: 1" = 20'



**ADDITIONAL DUCTBANK INSTALLATION
DETAIL BETWEEN MANHOLES
412 AND 413**
NO SCALE

PARTIAL SITE PLAN
SHEET SCALE: 1" = 40'

- CODED NOTES:**
- EXISTING TRANSFORMERS FEEDING HEATING & COOLING PLANT CHILLERS SHALL BE CONNECTED TO NEW HEATING/COOLING PLANT SWITCHGEAR.
 - REMOVE EXISTING PAD MOUNTED 3-WAY VACUUM SWITCH.
 - REMOVE EXISTING 12470/4160 VOLT TRANSFORMERS AT ALLIS CHALMER SUBSTATION.
 - NEW CHILLER TRANSFORMER.
 - NEW METALCLAD SWITCHGEAR AT SUBSTATION #1. SEE ENLARGED PLAN OF SUBSTATION ON SHEET 9.1.8.
 - TWO NEW FEEDERS IN NEW DUCTBANK EACH CONSISTING OF 3 #500 MCM'S (15KV) AND 1 #2000 MCM (800V) GROUND.
 - NEW PRIMARY DUCTBANK CONSISTING OF FOUR 8" CONDUITS FROM MANHOLE E-413 TO NEW METALCLAD SWITCHGEAR. ENCLOSE NEW DUCTBANK INSTALLATION AREA AS REQUIRED FOR PUBLIC SAFETY.
 - TWO NEW FEEDERS IN EXISTING DUCTBANK SPARE CONDUITS. SEE ELECTRICAL 9.1.6 FOR FEEDER SIZES.
 - REMOVE EXISTING 3-WAY SWITCH IN MANHOLE E-411. SEE SHEET 9.1.6 FOR DETAILS.
 - REMOVE EXISTING 4-WAY SWITCH IN MANHOLE E-409. SEE SHEET 9.1.6 FOR DETAILS.
 - EXISTING TRANSFORMER FOR PARKING STRUCTURE.
 - EXISTING TRANSFORMER FOR MRI FACILITY.
 - INSTALL NEW 4-WAY SP8 SWITCH IN MANHOLE E-410. SEE SHEET 9.1.6 FOR DETAILS.
 - INSTALL NEW UNDERGROUND FEEDER TO EXISTING MRI TRANSFORMER CONSISTING OF 3 #4/0'S (15KV) AND 1 #2 GROUND IN ONE 4" CONDUIT. SEE SHEET 9.1.7 FOR DUCTBANK CONSTRUCTION DETAILS. EXISTING TRANSFORMER IS DUAL-WOUND. CONNECT NEW FEEDER TO 15KV WINDING IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 - NEW PRIMARY DUCTBANK CONSISTING OF FOUR 5" CONDUITS ARRANGED IN A SINGLE ROW ATOP THE EXISTING DUCTBANK.
 - NEW 8'X12' ELECTRIC MANHOLE. CONSTRUCT PER DETAILS ON STRUCTURAL DRAWINGS. FORM MANHOLE TO ENCOMPASS EXISTING DUCTBANK AND CHP AWAY CONCRETE FROM DUCTBANK. PROVIDE CABLE RACK SUPPORTS FOR EXISTING AND NEW CABLEING.
- GENERAL NOTES - SITE UTILITIES**
- EXISTING UTILITIES SHOWN MAY ACTUALLY BE IN DIFFERENT LOCATIONS AND ADDITIONAL UTILITIES NOT SHOWN MAY EXIST AND MAY BE IN USE.
 - TOP ELEVATIONS OF NEW UNDERGROUND STRUCTURE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. ACTUAL TOP ELEVATIONS MUST BE THE SAME AS FINISHED GRADE IN THE SAME AREA. SEE ARCHITECTURAL PLANS FOR FINISHED GRADES.
 - LOCATIONS OF UTILITIES ARE APPROXIMATE AND SUBJECT TO MINOR CHANGES IN THE FIELD. DO NOT SCALE THE DRAWINGS.
 - INSTALL UNDERGROUND FEEDERS WITH 3'-0" MINIMUM COVER.
 - VERIFY EXACT SIZES AND ROUTING OF EXISTING UNDERGROUND UTILITIES WITH APPROPRIATE UTILITY COMPANIES BEFORE DOING ANY EXCAVATING.
 - THE CONTRACT DOCUMENTS SHOW THE APPROXIMATE LOCATION OF THE EXISTING AND NEW SUBSURFACE UTILITY LINES. THESE LINES HAVE BEEN IDENTIFIED AND LOCATED AS ACCURATELY AS POSSIBLE USING AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL LOCATIONS. IF ANY CHARTED, UNCHARTED OR MISLOCATED UTILITY SERVICE IS INTERRUPTED FOR ANY REASON, THE CONTRACTOR WILL WORK CONTINUOUSLY TO RESTORE SERVICE TO THE SATISFACTION OF THE OWNER.
 - EXCAVATION: MATERIALS TO BE EXCAVATED SHALL INCLUDE EARTH AND ANY OTHER MATERIAL, INCLUDING ROCK, ENCOUNTERED IN THE TRENCH EXCAVATION. SEE SPECIFICATIONS.
 - ALL CURB AND SIDEWALK CUTS SHALL BE SAW CUT.
 - CONTRACTOR RESPONSIBLE FOR REPAIRING SITE WORK TO MATCH THOSE CONDITIONS EXISTING PRIOR TO THE START OF WORK.

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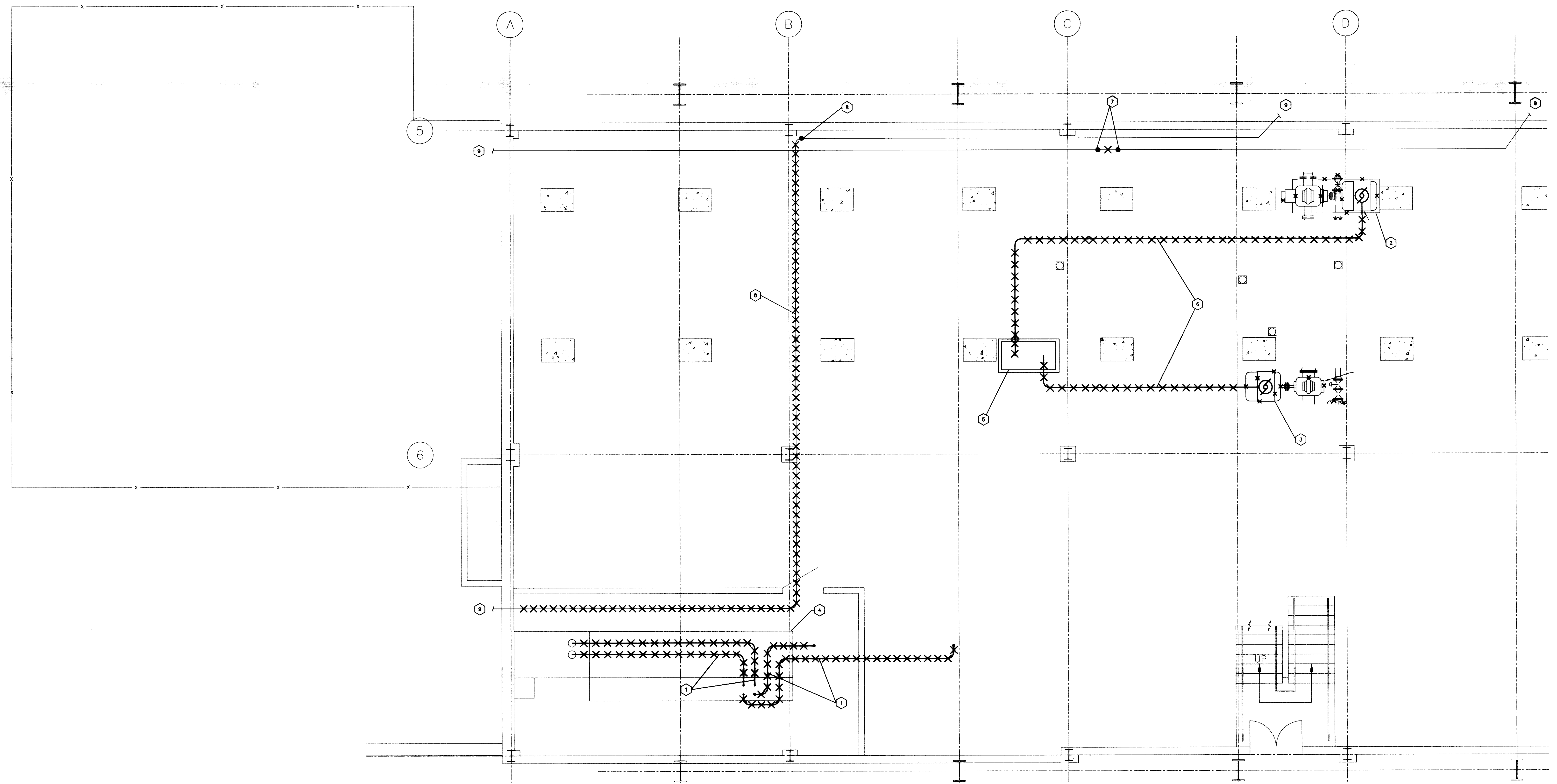
RECORD DRAWINGS DATE 11/10/03
These record drawings have been prepared, in part, on the basis of information compiled and furnished by others. The Engineer will not be responsible for any errors or omissions which have been incorporated into this document as a result.
STAGGS & FISHER CONSULTING ENGINEERS, INC.

FAILURE TO MARK BY DATE TO OBTAIN CLEARANCE TO OBTAIN CLEARANCE
THE DESIGN PROFESSIONAL, WHETHER ANY PROFESSIONAL SEAL OR SIGNATURE IS USED, SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT.

SITE PLAN
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHT.	PROJECT TITLE
DATE:	DECEMBER, 2000
DRAWN BY:	WPW
CHECKED BY:	GGC
REVISED:	
DATE	ADDENDUM #2
7/7/77	7/7/77
11/13/02	ADDED DUCTBANK FEEDER CHANN
1/2/02	
SHEET NUMBER	
9.0.0	
PROJECT NUMBER	99024.02

- CODED NOTES:**
- 1 REMOVE FEEDERS TO UNIT SUBSTATION ON FIRST FLOOR AFTER INSTALLING TEMPORARY FEEDER. SEE SHEET 9.1.2 FOR DETAILS.
 - 2 125 HP PUMP UNIT TO BE REPLACED.
 - 3 100 HP PUMP UNIT TO BE REPLACED.
 - 4 REMOVE EXISTING 4160V DISTRIBUTION SWITCHGEAR WHEN ALL LOADS HAVE BEEN REMOVED.
 - 5 EXISTING MOTOR CONTROL CENTER TO REMAIN. RELABEL PUMP STARTERS AS SPARES.
 - 6 REMOVE EXISTING MOTOR FEEDERS.
 - 7 EXISTING FEEDER TO CHILLER #6. REMOVE SECTION OF CONDUIT AT LOCATIONS INDICATED FOR EXTENSION TO NEW 15KV SWITCHBOARD. SEE SHEET 9.1.2 FOR DETAILS ON LOCATIONS.
 - 8 EXISTING FEEDER FOR CHILLER #4/5. REMOVE CABLING AND CONDUIT TO POINT INDICATED.



POWER PLAN - DEMOLITION - BASEMENT
 SHEET SCALE: 1/4" = 1'-0"

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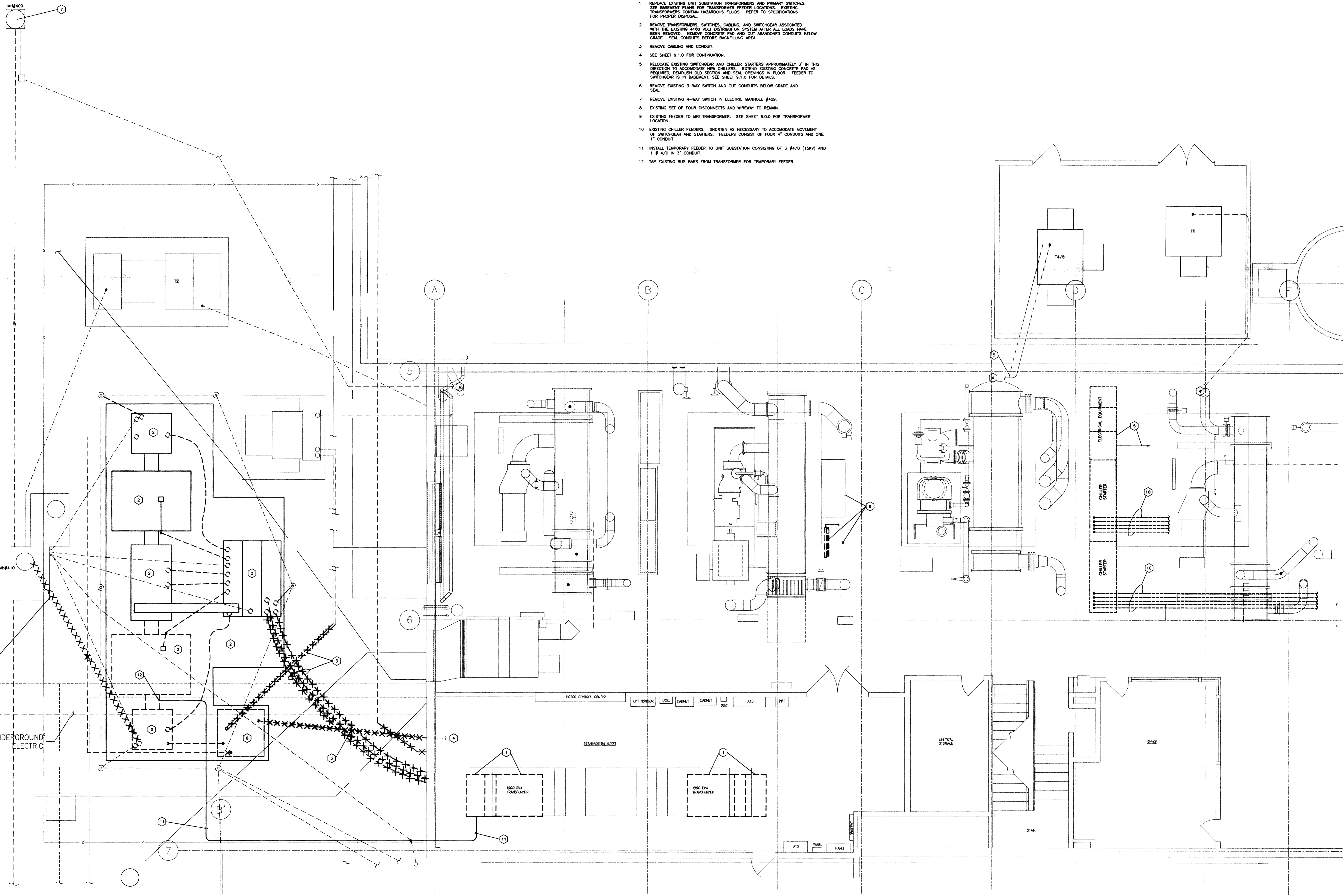
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 STAGGS & FISHER CONSULTING ENGINEERS, INC.

FAILURE TO MAKE BY THE CONTRACTOR THE NECESSARY CHECKS FOR THE ACCURACY OF THE INFORMATION PROVIDED TO THE ENGINEER SHALL BE AT THE CONTRACTOR'S RISK AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

POWER - DEMOLITION - BASEMENT PLAN
 UTILITY UPGRADE - PHASE 1
 UNIVERSITY OF KENTUCKY
 LEXINGTON, KENTUCKY

SHEET: PROJECT TITLE
 DATE: DECEMBER, 2000
 DRAWN BY: WFW
 CHECKED BY: GGC
 REVISED: DATE

SHEET NUMBER
9.1.0
 PROJECT NUMBER
 99024.02
 Cdb #



MANHOLE

UNDERGROUND ELECTRIC

NOTE:
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STAGGS & FISHER CONSULTING ENGINEERS, INC.

- CODED NOTES:
- 1 REPLACE EXISTING UNIT SUBSTATION TRANSFORMERS AND PRIMARY SWITCHES. SEE BASEMENT PLANS FOR TRANSFORMER FEEDER LOCATIONS. EXISTING TRANSFORMERS CONTAIN HAZARDOUS FLUIDS. REFER TO SPECIFICATIONS FOR PROPER DISPOSAL.
 - 2 REMOVE TRANSFORMERS, SWITCHES, CABLING, AND SWITCHGEAR ASSOCIATED WITH THE EXISTING 480 VOLT DISTRIBUTION SYSTEM AFTER ALL LOADS HAVE BEEN REMOVED. REMOVE CONCRETE PAD AND CUT ABANDONED CONDUITS BELOW GRADE. SEAL CONDUITS BEFORE BACKFILLING AREA.
 - 3 REMOVE CABLING AND CONDUIT.
 - 4 SEE SHEET 9.1.0 FOR CONTINUATION.
 - 5 RELOCATE EXISTING SWITCHGEAR AND CHILLER STARTERS APPROXIMATELY 3' IN THIS DIRECTION TO ACCOMMODATE NEW CHILLERS. EXTEND EXISTING CONCRETE PAD AS REQUIRED. DEMOLISH OLD SECTION AND SEAL OPENINGS IN FLOOR. FEEDER TO SWITCHGEAR IS IN BASEMENT. SEE SHEET 9.1.0 FOR DETAILS.
 - 6 REMOVE EXISTING 3-WAY SWITCH AND CUT CONDUITS BELOW GRADE AND SEAL.
 - 7 REMOVE EXISTING 4-WAY SWITCH IN ELECTRIC MANHOLE #409.
 - 8 EXISTING SET OF FOUR DISCONNECTS AND WIRING TO REMAIN.
 - 9 EXISTING FEEDER TO MRI TRANSFORMER. SEE SHEET 9.0.0 FOR TRANSFORMER LOCATION.
 - 10 EXISTING CHILLER FEEDERS. SHORTEN AS NECESSARY TO ACCOMMODATE MOVEMENT OF SWITCHGEAR AND STARTERS. FEEDERS CONSIST OF FOUR 4" CONDUITS AND ONE 1" CONDUIT.
 - 11 INSTALL TEMPORARY FEEDER TO UNIT SUBSTATION CONSISTING OF 3 #4/0 (15KV) AND 1 # 4/0 IN 3" CONDUIT.
 - 12 TAP EXISTING BUS BARS FROM TRANSFORMER FOR TEMPORARY FEEDER.

POWER PLAN - DEMOLITION - FIRST FLOOR
SHEET SCALE: 1/4" = 1'-0"

POWER - DEMOLITION - 1ST FLOOR PLAN
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE
DATE: DECEMBER 2000
DRAWN BY: WPW
CHECKED BY: GGC
REVISED:
DATE 7/7/02 ADDENDUM
8/3/01 REVISION #2
1/31/02 REVISION #3

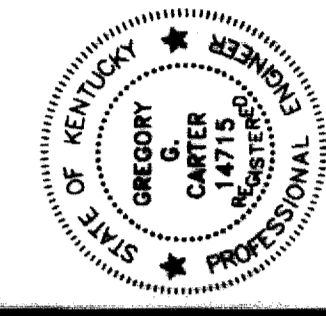
SHEET NUMBER
9.1.1

PROJECT NUMBER
99024.02

174 C-2 25502

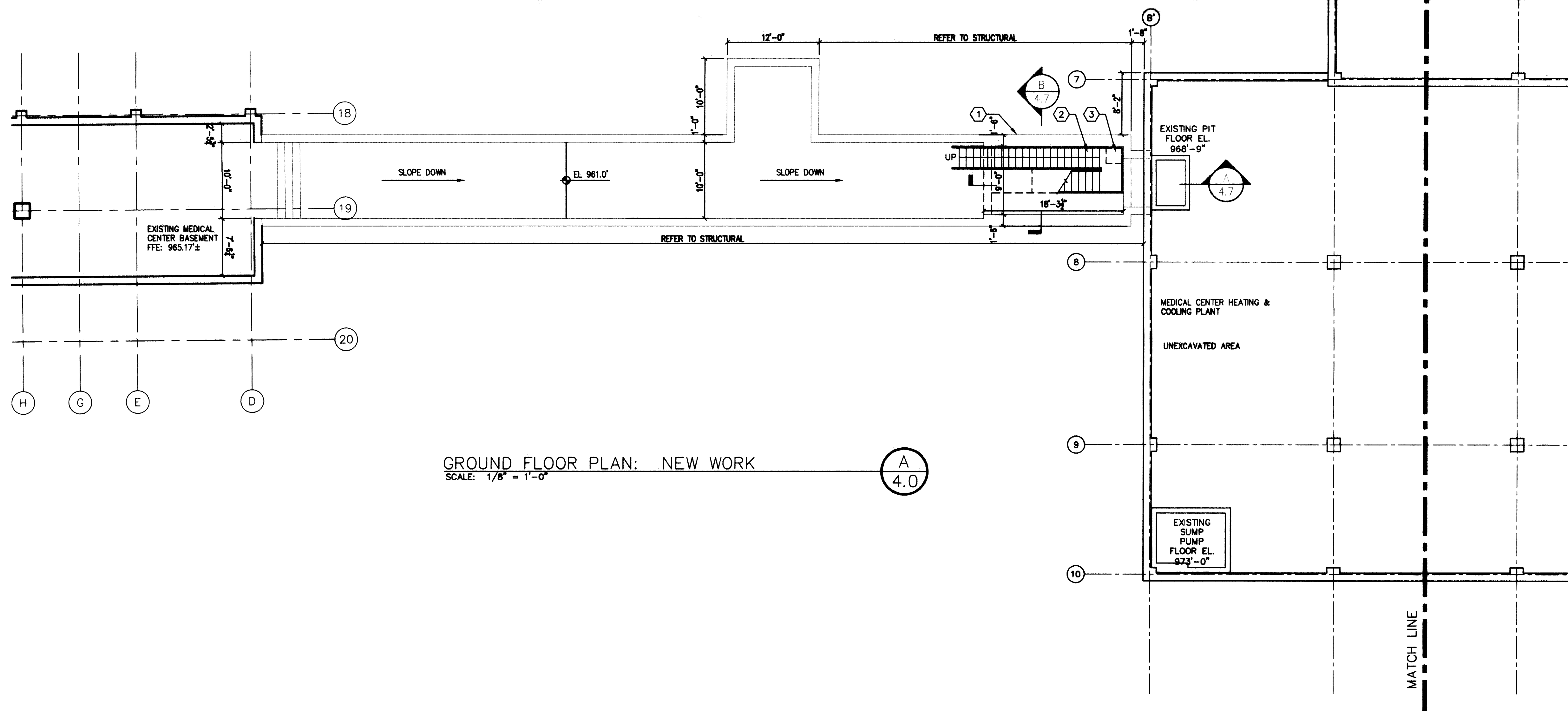
CJM
CHRISTIAN M. MILLER - WOODFORD, INC.
ARCHITECTURE ENGINEERING PLANNING INTERIORS LANDSCAPE ARCHITECTURE
205 S. BROADWAY
LEWISTON, KENTUCKY 40363
(606) 254-8623

SF
Staggs and Fisher
Consulting Engineers,
Architects
Lexington, Kentucky 40517



ALL WORK TO BE DONE BY
THE CONTRACTOR SHALL BE IN
ACCORDANCE WITH THE
REQUIREMENTS OF THE
KENTUCKY ELECTRICAL
CODE AND THE NATIONAL
ELECTRICAL CODE (NEC).
THE CONTRACTOR SHALL BE
RESPONSIBLE FOR OBTAINING
ALL NECESSARY PERMITS
AND FOR COMPLYING WITH
ALL APPLICABLE REGULATIONS.
CONCRETE REPAIRS ARE ALLOWED.

COOLING PLANT #3



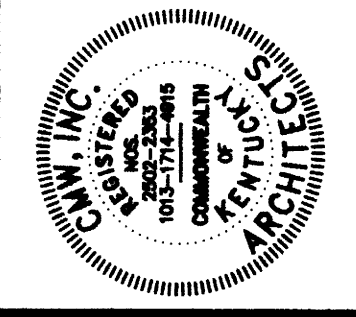
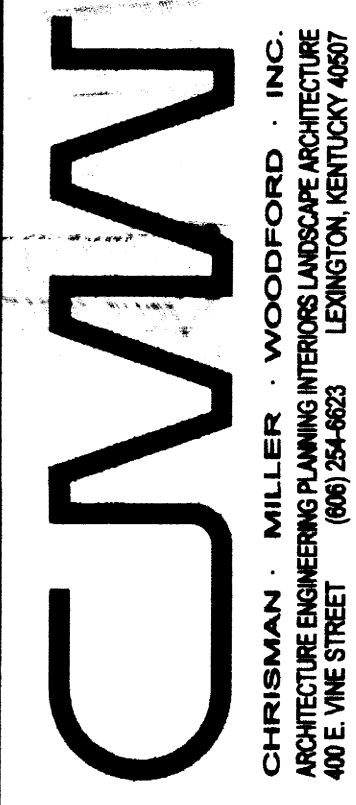
GROUND FLOOR PLAN: NEW WORK
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. DIMENSIONS ARE TO EDGE OF METAL STUD, EDGE OF BRICK, EDGE OF CONCRETE OR CENTERLINE OF COLUMN UNLESS NOTED OTHERWISE.
2. REFER TO STRUCTURAL DRAWINGS FOR TUNNEL DIMENSIONS AND DETAILS.

SHEET NOTES

1. CONCRETE STAIR TOWER/SHAFT: CAST-IN-PLACE CONCRETE STRUCTURE, WITH BRICK VENEER.
2. STEEL STAIR: TREADS AND LANDINGS SHALL BE OPEN GRATING TYPE. STEEL SHALL BE SHOP PRIMED AND FIELD PAINTED. REFER TO ENLARGED PLAN A/4.6.
3. SUMP PIT AND PUMP: REFER TO STRUCTURAL AND MECHANICAL.



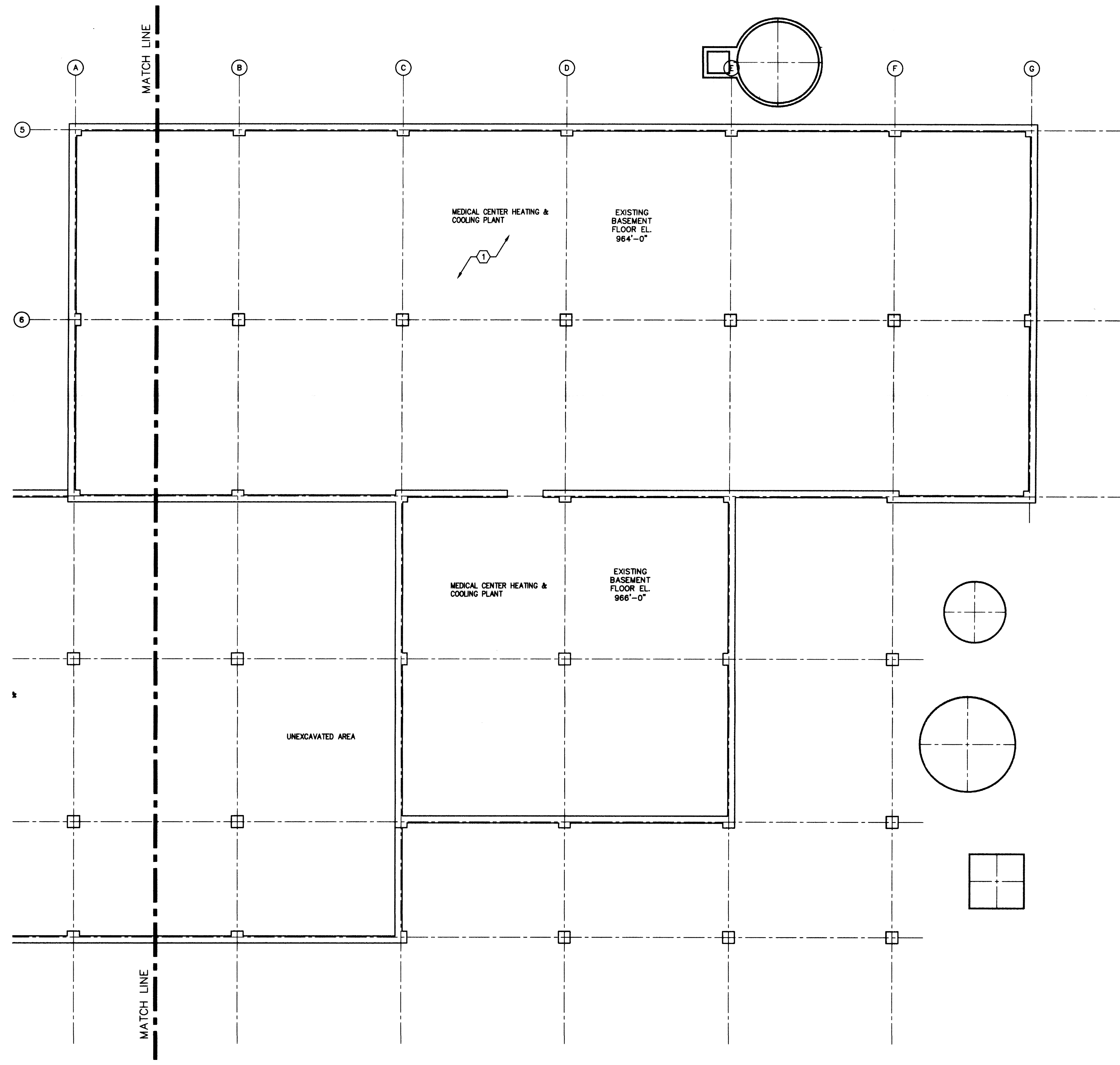
PLEASE TO BE USED BY THE CONTRACTOR TO OBTAIN CLEARANCE. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AND CONDITIONS OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ADJACENT PROPERTIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ADJACENT UTILITIES AND STRUCTURES.

CRITICAL CARE BASEMENT PLAN
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE
DATE: DECEMBER, 2000
DRAWN BY: M.W.
CHECKED BY: B.D.
REVISED:
DATE 1
2
4

SHEET NUMBER
4.0
PROJECT NUMBER
99024.02
JOB # 174 C-1 25/76

RECORD DRAWINGS DATE 11/20/2003
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CMW, INC.



BASEMENT PLAN
 1/8" = 1'-0"

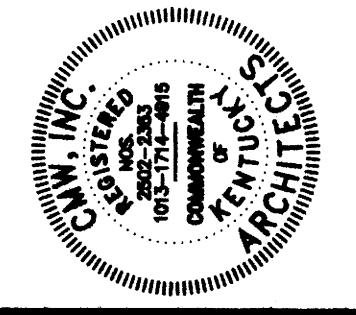
GENERAL NOTES

1. DIMENSIONS ARE TO EDGE OF METAL STUD, EDGE OF BRICK, EDGE OF CONCRETE OR CENTERLINE OF COLUMN UNLESS NOTED OTHERWISE.

SHEET NOTES

① REFER TO MECHANICAL DRAWINGS FOR WORK IN THIS AREA. PATCH AND REPAIR SURFACES TO ORIGINAL CONDITION AFTER INSTALLATION.

CMW
 CHRISTIAN M. MILLER, WOODFORD, INC.
 ARCHITECTURE ENGINEERING INTERIOR ARCHITECTURE
 400 E. VINE STREET LEXINGTON, KENTUCKY 40507
 (606) 254-6623



PERMITTED TO MAKE BY:
 GENERAL DOCUMENTS OR
 TO OBTAIN EXEMPTION
 FROM ALL REQUIREMENTS OF THE
 PROFESSIONAL ENGINEERING ACT
 OF THE STATE OF KENTUCKY
 THE BOARD OF ENGINEERING
 PROFESSIONALS OF THE STATE OF
 KENTUCKY HAS GRANTED AN
 EXEMPTION TO THE ABOVE
 PROJECT TO THE FOLLOWING
 INDIVIDUALS WHOSE NAMES
 ARE LISTED BELOW.

BASEMENT PLAN
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE
 DATE: DECEMBER, 2000
 DRAWN BY: M.W.
 CHECKED BY: B.O.
 REVISED:
 DATE 1 #
 2 #
 4 #
 SHEET NUMBER
4.1
 PROJECT NUMBER
 99024.02
 SHEET DOCUMENT #
 25477
 174 C-1
 CMW, INC.

RECORD DRAWINGS DATE 11/20/2003
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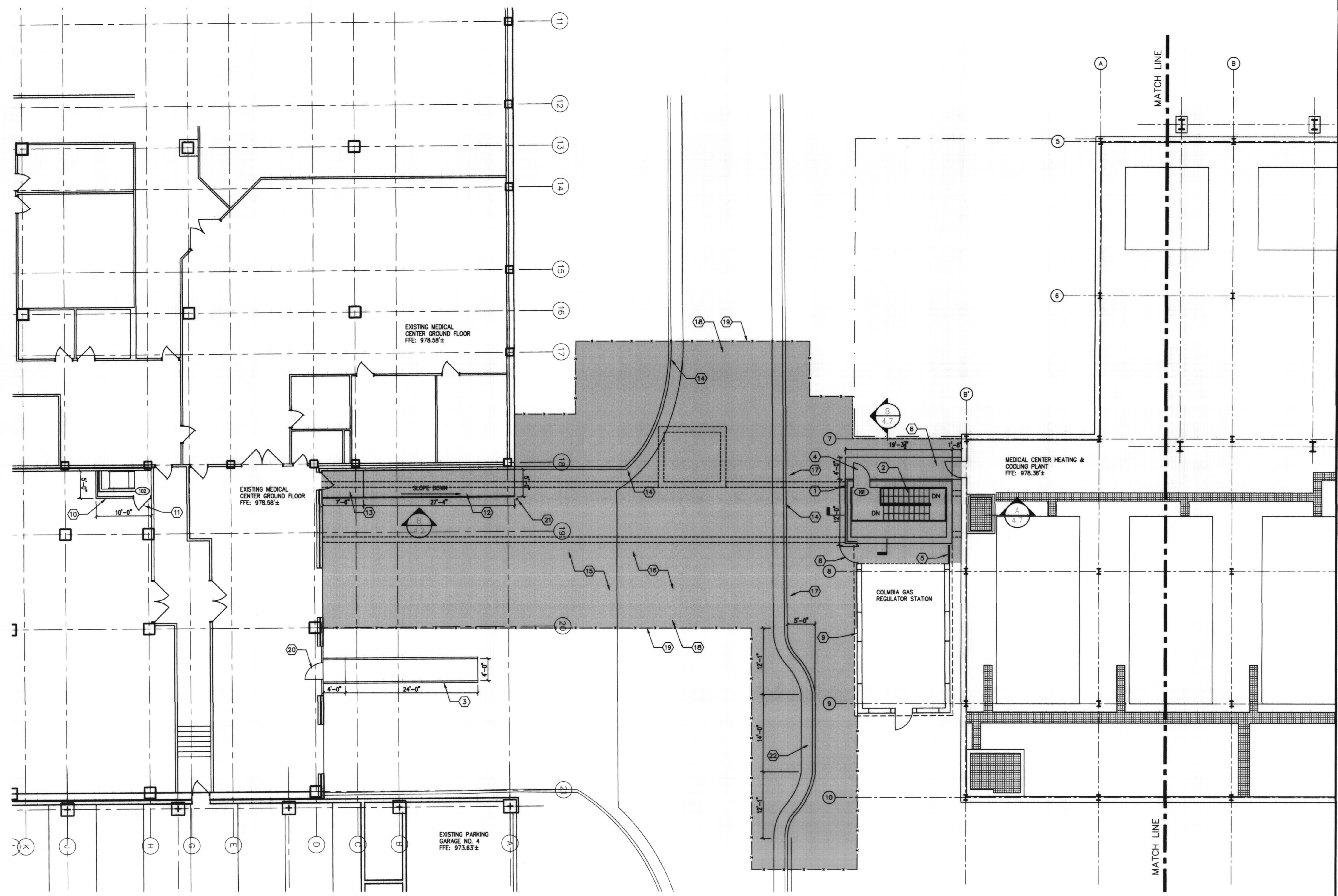


GENERAL NOTES

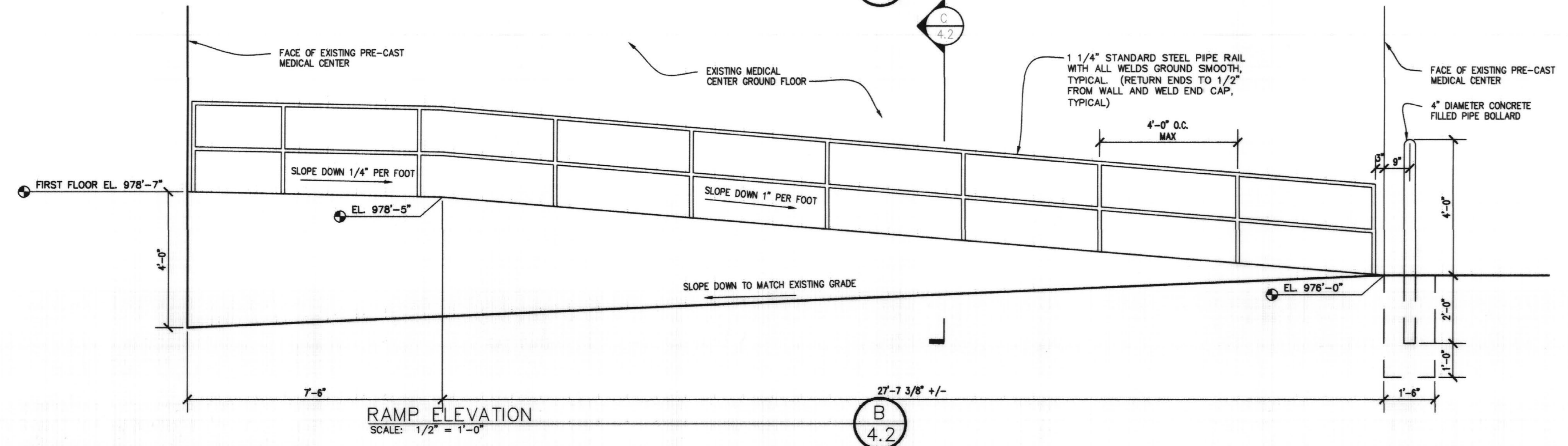
1. DIMENSIONS ARE TO EDGE OF METAL STUD, EDGE OF BRICK, EDGE OF CONCRETE OR CENTERLINE OF COLUMN UNLESS NOTED OTHERWISE.
2. REFER TO STRUCTURAL DRAWINGS FOR TUNNEL DIMENSIONS AND DETAILS.

SHEET NOTES

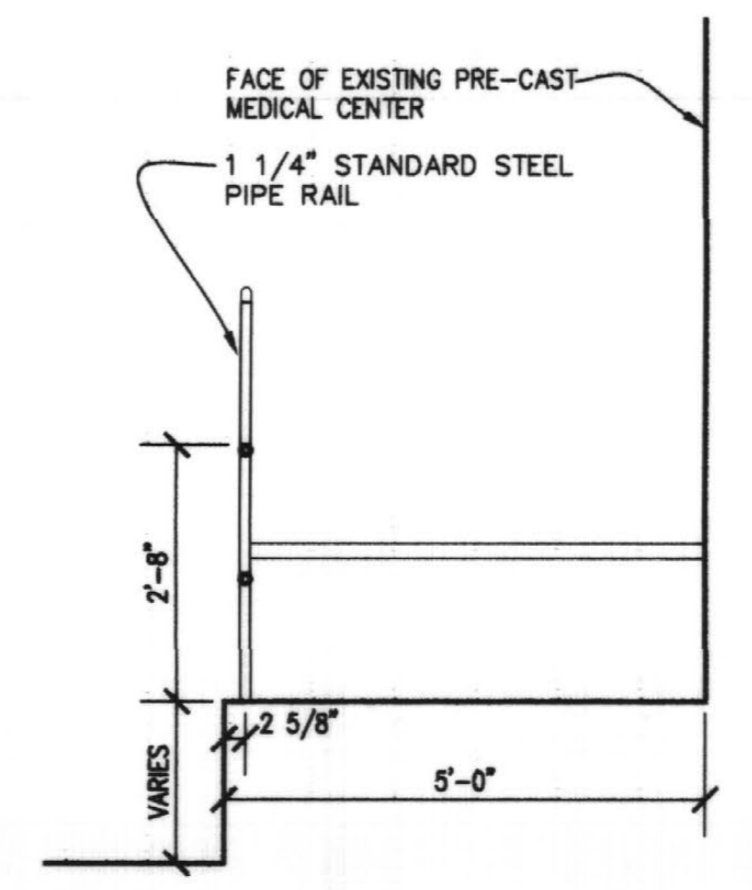
1. CONCRETE STAIR TOWER/SHAFT: CAST-IN-PLACE CONCRETE STRUCTURE, WITH BRICK VENEER.
2. STEEL STAIR: TREADS AND LANDINGS SHALL BE OPEN GRATING TYPE. STEEL SHALL BE SHOP PRIMED AND FIELD PAINTED. REFER TO ENLARGED PLAN A/4.7.
3. TEMPORARY WOOD RAMP: 4'-0" WIDE WITH WOOD SAFETY RAIL AND 4'-0" X 4'-0" LANDING AT TOP. SLOPE SHALL NOT EXCEED 1:8. FIELD VERIFY LENGTH.
4. PERSONNEL DOOR: HOLLOW METAL DOOR, HALF GLASS TYPE, 3'X7'. REFER TO ENLARGED PLAN B/4.7.
5. PERMANENT CHAIN LINK FENCE: 3'X7'.
6. RELOCATED DOOR AND FRAME.
7. NOT USED
8. CONCRETE SLAB: EXTERIOR SLAB ON GRADE.
9. EXISTING GAS HOUSE: EXISTING ROOF STRUCTURE SHALL BE MODIFIED AND ADJOIN ROOF OF NEW CONCRETE STAIR TOWER, REFER TO STRUCTURAL DRAWINGS.
10. 3 5/8" STEEL STUD WALL WITH 5/8" GYPSUM BOARD ON BOTH SIDES. FRAMED TO DECK ABOVE.
11. PERSONNEL DOOR: HOLLOW METAL DOOR, 3'X7'.
12. CONCRETE RAMP: CAST-IN-PLACE CONCRETE STRUCTURE, WITH NON-SLIP BROOM FINISH.
13. CONCRETE LANDING: CAST-IN-PLACE CONCRETE STRUCTURE. SLOPE 1/4" PER FOOT, AWAY FROM DOOR.
14. CONCRETE CURB TO MATCH EXISTING.
15. CONCRETE SLAB TO MATCH EXISTING.
16. ASPHALT TO MATCH EXISTING.
17. KEYSTONE RETAINING WALL AND SHRUBS TO MATCH EXISTING.
18. SHADED AREA INDICATES APPROXIMATE EXCAVATION AREA FOR TUNNEL.
19. CONSTRUCTION LIMITS: TEMPORARY CHAIN LINK FENCE, 6'-0" HIGH.
20. TEMPORARY WOOD WALL AND DOOR.
21. 4" DIAMETER CONCRETE FILLED PIPE BOLLARD.
22. 5'-0" SET BACK OF ASPHALT, CONCRETE CURB AND BLOCK RETAINING WALL.



GROUND FLOOR PLAN: NEW WORK
 SCALE: 1/8" = 1'-0"



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



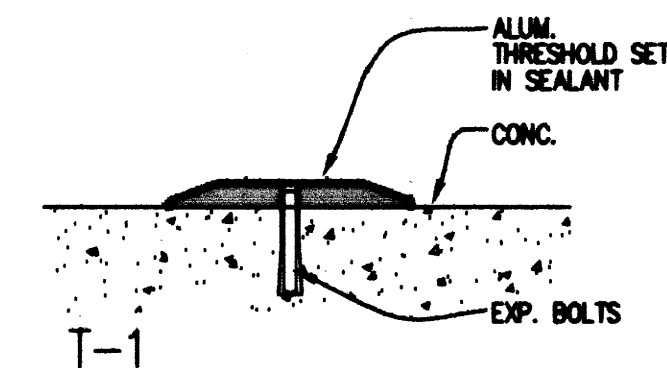
RAMP SECTION
 SCALE: 1/2" = 1'-0"

CRITICAL CARE FIRST FLOOR PLAN
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE
 DATE: DECEMBER, 2000
 DRAWN BY: M.W.
 CHECKED BY: B.D.
 REVISED:
 DATE 1,
 2,
 4.

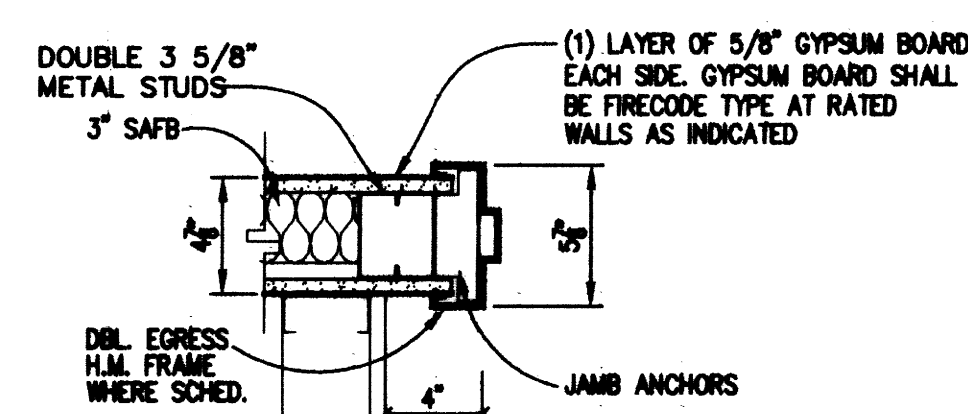
RECORD DRAWINGS DATE 11/20/2003
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SHEET NUMBER
4.2
 PROJECT NUMBER
 99024.02

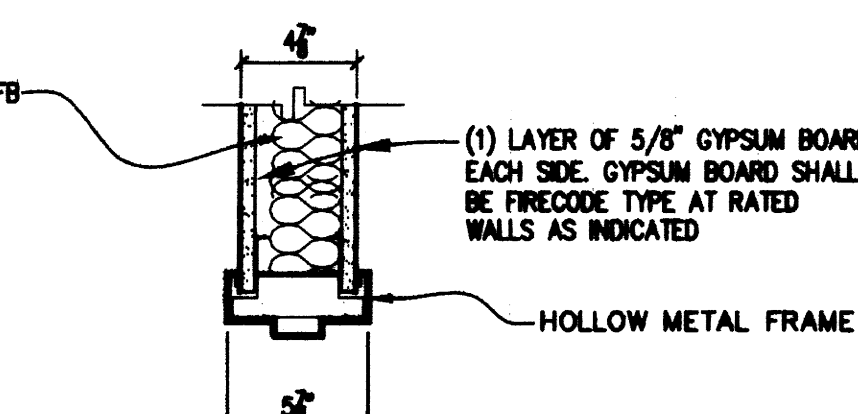


THRESHOLD DETAILS
3" = 1'-0"

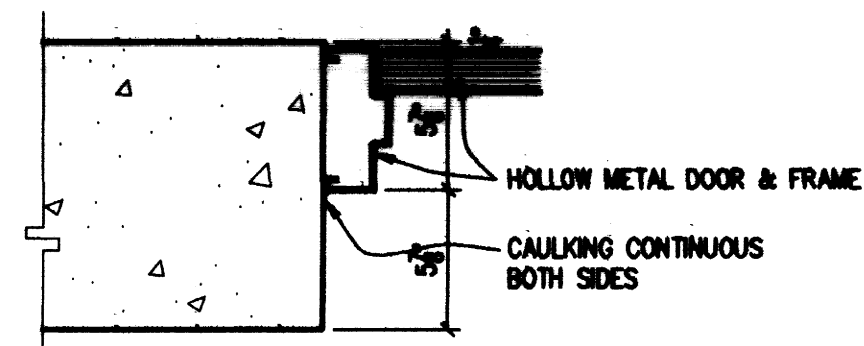
REFER TO DOOR SCHEDULE FOR LOCATION



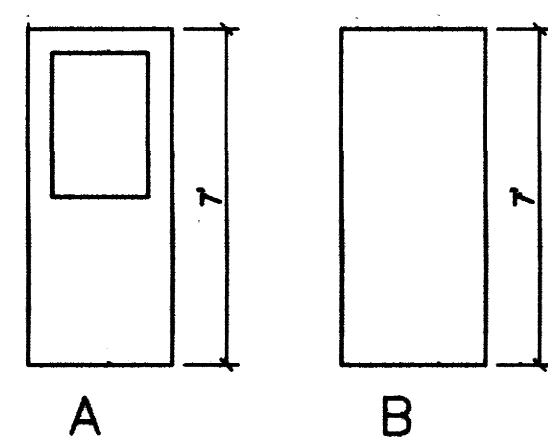
JAMB
SCALE: 1-1/2" = 1'-0" (A) 4.3



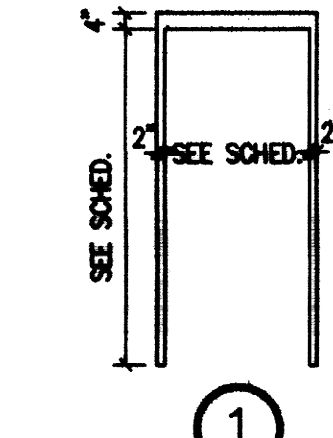
HEAD
SCALE: 1-1/2" = 1'-0" (B) 4.3



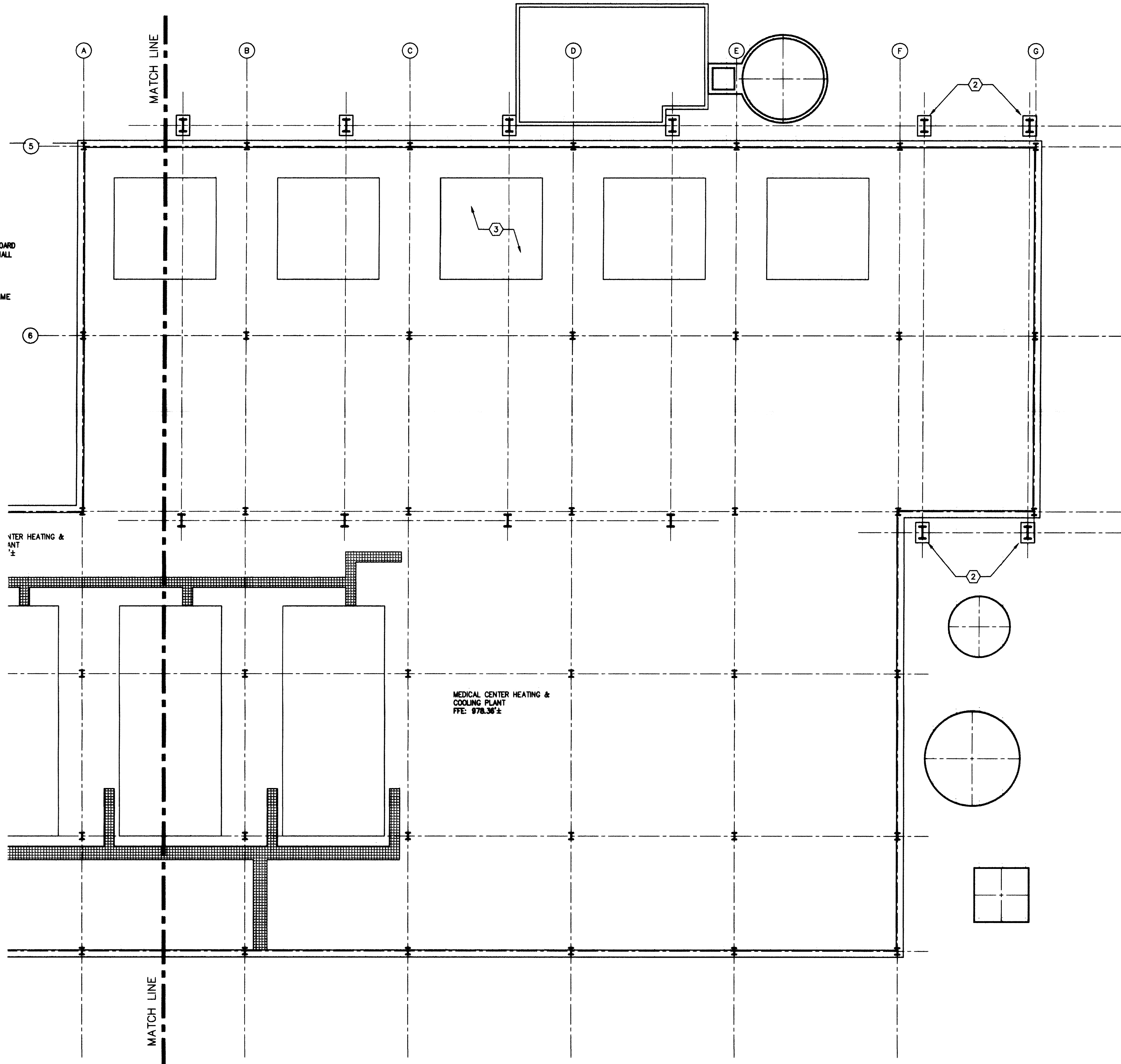
HEAD / JAMB
SCALE: 1-1/2" = 1'-0" (C) 4.3



DOOR ELEVATION
1/4" = 1'-0"



FRAME ELEVATION
1/4" = 1'-0"



FIRST FLOOR PLAN
1/8" = 1'-0"

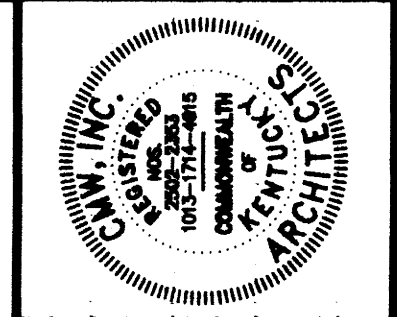
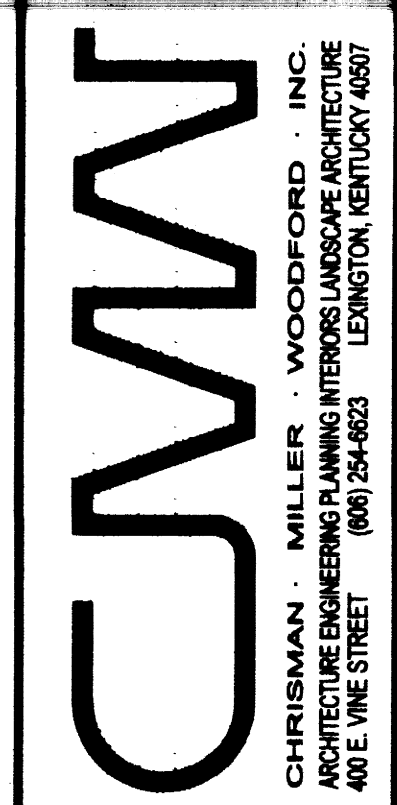
DOOR SCHEDULE GROUND FLOOR		DOOR OPENING SIZE		FRAME		WALL		DOOR		HARDWARE		CLOSURE		REMARKS		DOOR NO.									
NO.	LOCATION	INSIDE	NO.	WIDTH	HEIGHT	THICK	MATL.	GA.	ELEV.	JAMB D.	HEAD	JAMB	GLAZING	MATERIAL	MATL.	GA.	ELEV.	GLAZING	LABEL	20 MIN	1	2	THR	REMARKS	NO.
101	KEYSIDE	STAIR TOWER	1	3'-0"	7'-0"	1-3/4"	HM	16	1	5-7/8"	C/4.3	C/4.3	---	CONC.	HM	---	A	WIRE GL.	---	20 MIN	1	---	T-1	---	101
102	MECHANICAL ROOM	AXIS LADDER	1	3'-0"	7'-0"	1-3/4"	HM	16	1	5-7/8"	B/4.3	A/4.3	---	GYP. BD.	HM	---	B	---	---	20 MIN	2	---	T-1	---	102

GENERAL NOTES

1. DIMENSIONS ARE TO EDGE OF METAL STUD, EDGE OF BRICK, EDGE OF CONCRETE OR CENTERLINE OF COLUMN UNLESS NOTED OTHERWISE.

SHEET NOTES

- ① MASONRY INFILL: N.I.C. INFILL WALL SHALL BE DONE BY CHILLER CONTRACTOR. REFER TO ELEVATION A/4.5.
- ② STEEL COLUMNS: SUPPORT FOR NEW COOLING TOWER. REFER TO STRUCTURAL DRAWINGS.
- ③ CONCRETE HOUSEKEEPING PAD, N.I.C. PAD SHALL BE DONE BY CHILLER CONTRACTOR.



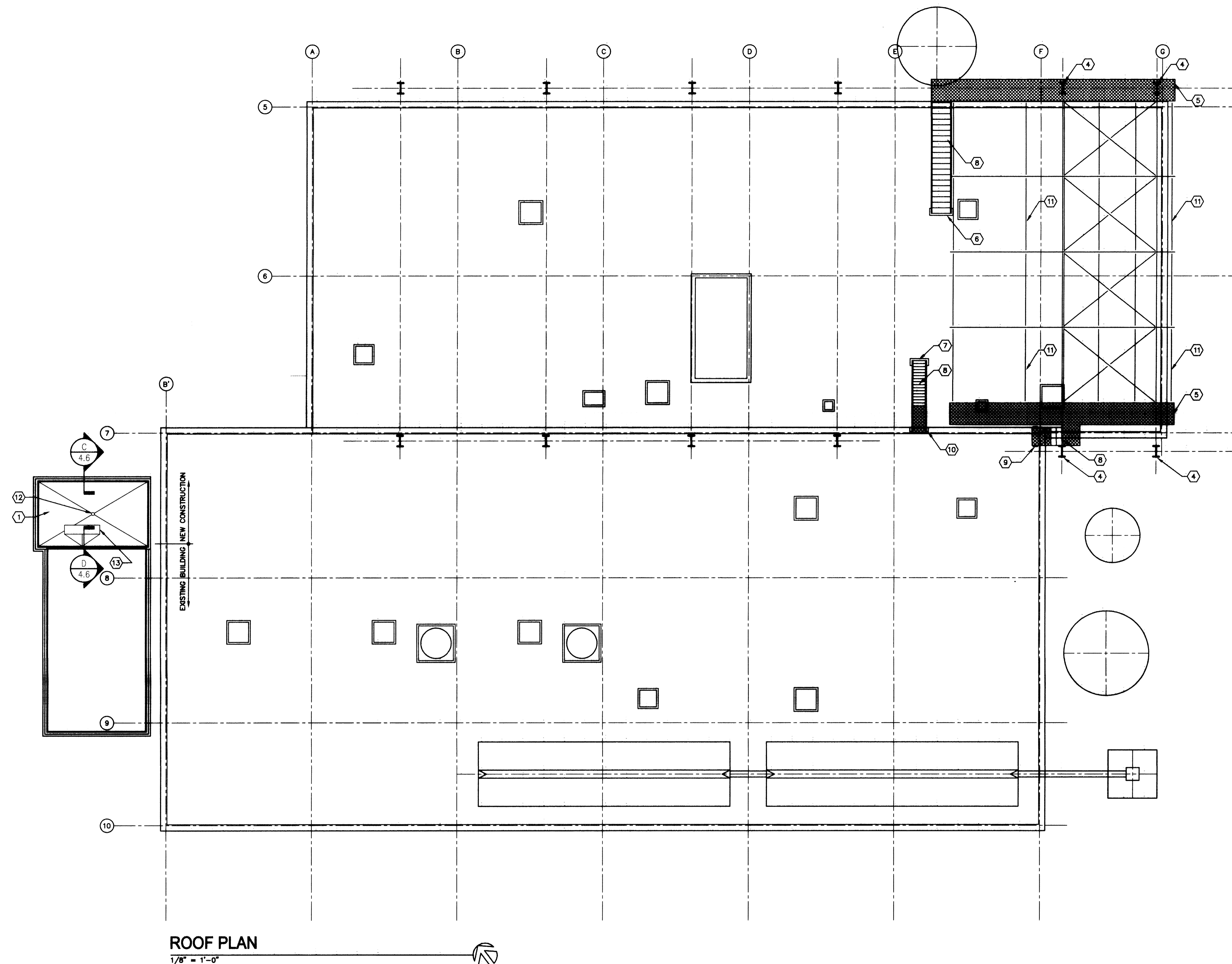
FAILURE TO ADHERE TO THESE CONDITIONS OF CONTRACT SHALL BE AT THE RISK OF THE CONTRACTOR. THE ARCHITECT ASSUMES NO LIABILITY FOR CONSTRUCTION DEFECTS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.

FIRST FLOOR PLAN
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

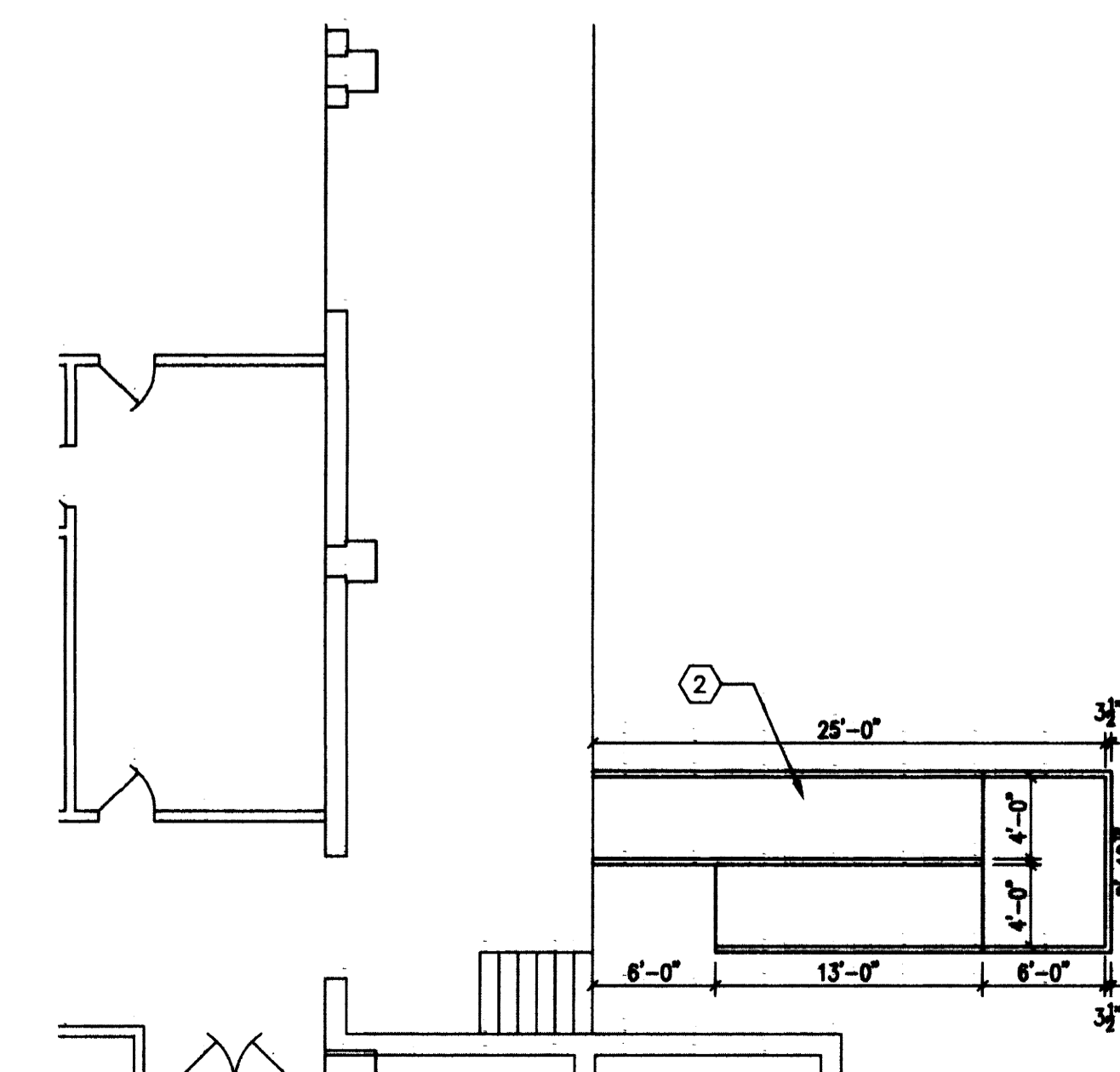
SHT. PROJECT TITLE
DATE: DECEMBER, 2000
DRAWN BY: M.W.
CHECKED BY: B.D.
REVISED:
DATE 1:
DATE 2:
SHEET NUMBER: **43**
PROJECT NUMBER: 99024.02
CMW, INC.

RECORD DRAWINGS DATE 11/20/2003

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ROOF PLAN
1/8" = 1'-0"



LOADING DOCK 2 PLAN
1/8" = 1'-0"

GENERAL NOTES

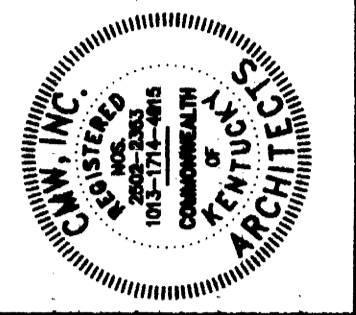
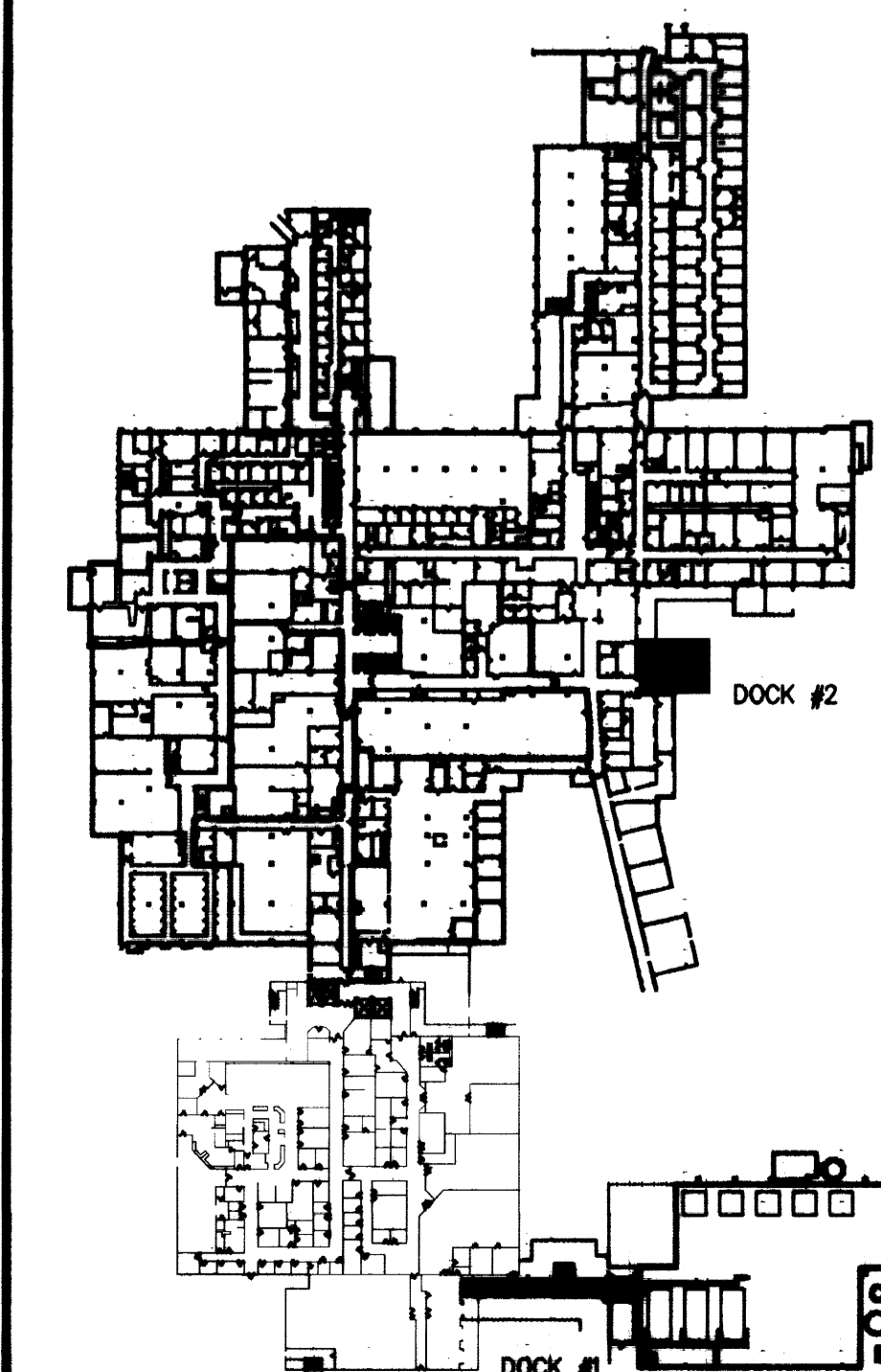
1. DIMENSIONS ARE TO EDGE OF METAL STUD, EDGE OF BRICK OR CENTERLINE OF COLUMN UNLESS NOTED OTHERWISE.
2. ALL NEW CONCRETE PADS AT THE ROOF SHALL BE INSTALLED WATER TIGHT INTO THE EXISTING ROOF. PROVIDE CANTS AND EXTEND NEW ROOFING SPLICE UNDER CONTINUOUS FLASHING AT ALL SIDES.

SHEET NOTES

1. MODIFIED BITUMINOUS MEMBRANE ROOFING
2. TEMPORARY WOOD RAMP: 4'-0" WIDE WITH WOOD SAFETY RAIL. SLOPE SHALL NOT EXCEED 1:8. FIELD VERIFY LENGTH. LOCATE RAMP WITHIN STRIPING FOR SOUTHMOST DOCK BAY.
3. CURB AROUND EXHAUST VENT
4. STEEL COLUMNS: SUPPORT FOR NEW COOLING TOWER. REFER TO STRUCTURAL DRAWINGS.
5. SERRATED GALVANIZED STEEL BAR GRATING
6. CONCRETE PAD 3'-0"L X 1'-2"W X 10 1/2"H
7. CONCRETE PAD 3'-10"L X 1'-2"W X 10 1/2"H
8. STEEL STAIR: TREAD AND LANDINGS SHALL BE OPEN GRATING TYPE. STEEL SHALL BE SHOP PRIMED AND FIELD PAINTED. REFER TO STRUCTURAL DRAWINGS.
9. CONCRETE PAD 3'-4"L X 8"W X 5"H
10. CONCRETE PAD 3'-0"L X 8"W X 7"H
11. STEEL BEAMS: SUPPORT FOR NEW COOLING TOWER. REFER TO STRUCTURAL DRAWINGS.
12. 6" ROOF DRAIN
13. EXHAUST FAN CURB

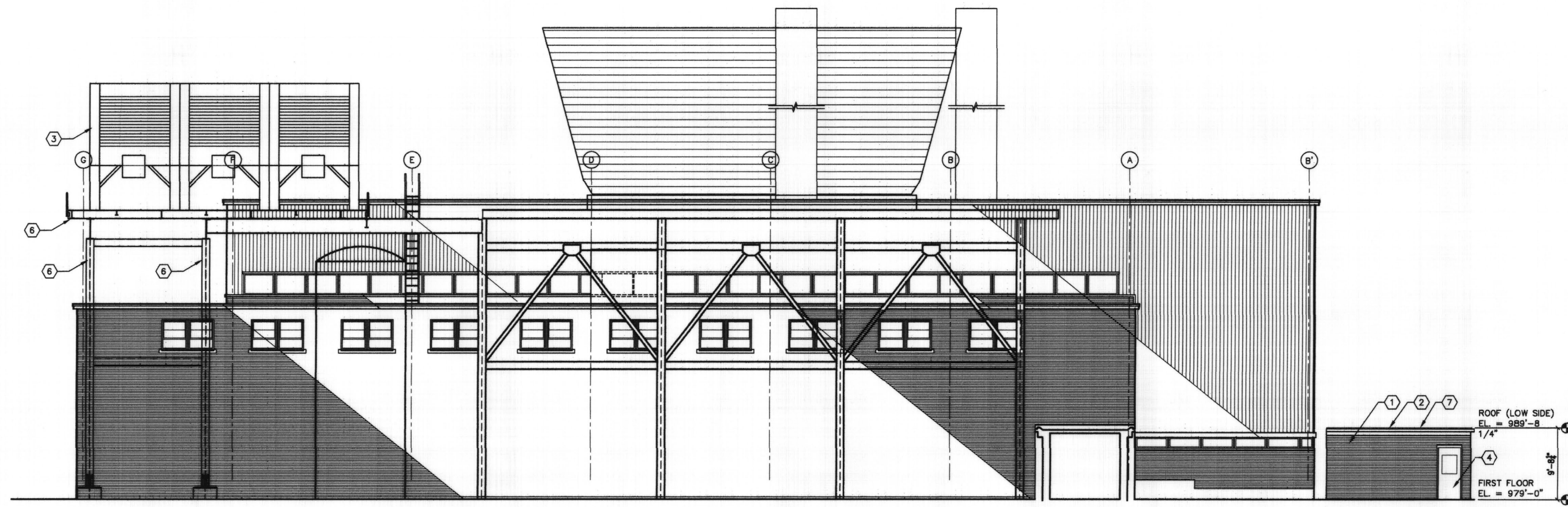
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KEY PLAN



ROOF PLAN AND LOADING DOCK 2 PLAN
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE
 DATE: DECEMBER 2000
 DRAWN BY: M.W.
 CHECKED BY: B.D.
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 DATE 1.
 SHEET NUMBER
4.4
 PROJECT NUMBER
 99024.02

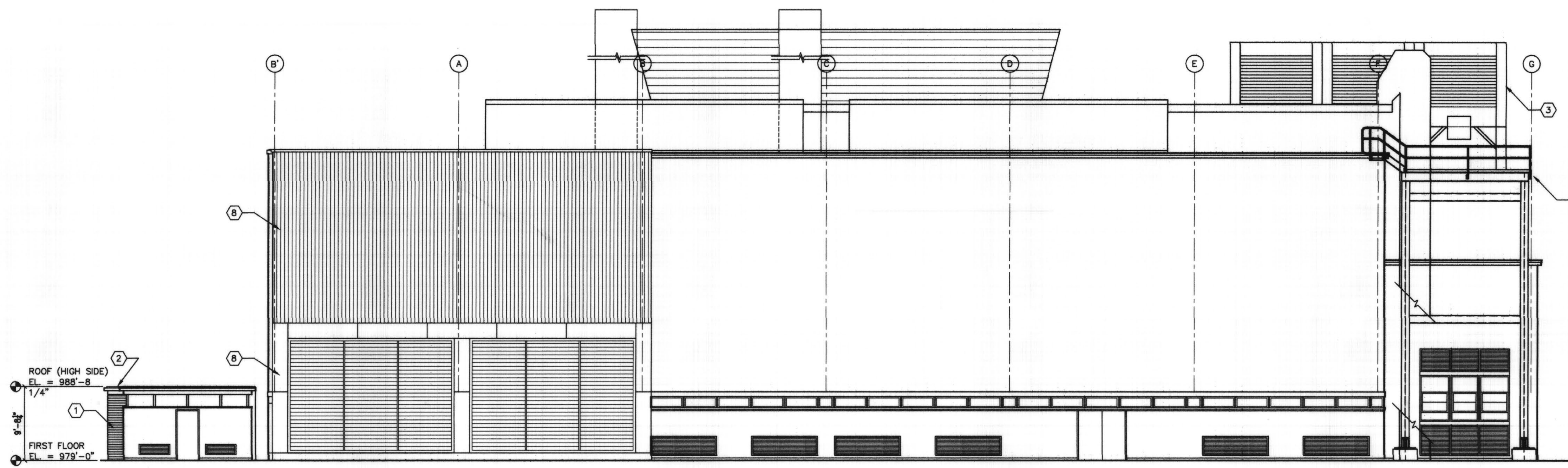


NORTH ELEVATION

1/8" = 1'-0"

A
4.5

EXISTING BUILDING NEW CONSTRUCTION



SOUTH ELEVATION

1/8" = 1'-0"

B
4.5

GENERAL NOTES

1. ALL EXTERIOR EXPOSED CONCRETE TO HAVE RUBBED FINISH AND SEALANT.

SHEET NOTES

- ① CONCRETE STAIR TOWER/SHAFT: CAST-IN-PLACE CONCRETE STRUCTURE. WITH BRICK VENEER. BRICK SHALL MATCH EXISTING BRICK AT GAS HOUSE.
- ② CONCRETE ROOF STRUCTURE: MATCH EXISTING ROOF PROFILE. REFER TO DETAIL C/4.6
- ③ NEW COOLER TOWERS
- ④ PERSONEL DOOR: HOLLOW METAL DOOR, HALF GLASS TYPE, 3'X7'. REFER TO ENLARGED PLAN D/4.7
- ⑤ BRICK AND BLOCK INFILL, N.I.C. INFILL WALL SHALL BE DONE BY CHILLER CONTRACTOR.
- ⑥ STEEL COLUMNS: SUPPORT FOR NEW COOLING TOWER. REFER TO STRUCTURAL DRAWINGS.
- ⑦ MODIFIED BITUMEN ROOFING.
- ⑧ COOLING PLANT EXPANSION N.I.C.

CMW
CHRISTIAN MALLER WOODFORD, INC.
ARCHITECTURE ENGINEERING PLANNING INTERIORS LANDSCAPE ARCHITECTURE
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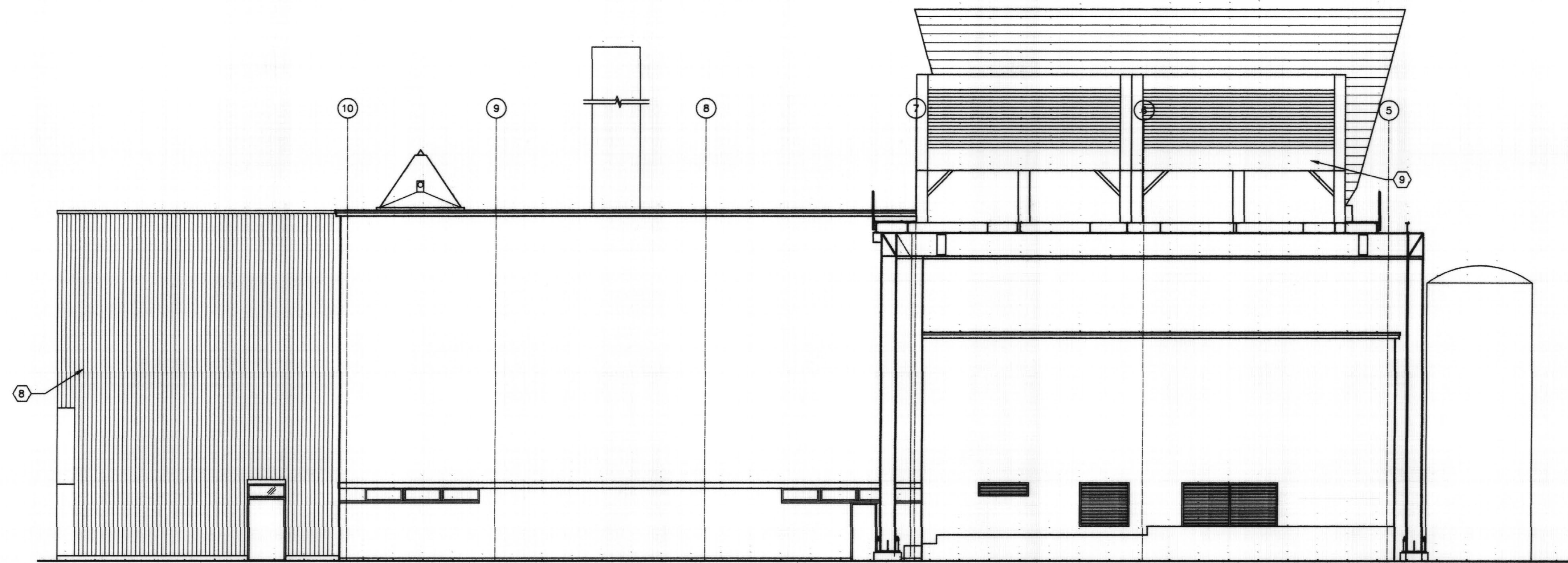
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ELEVATIONS
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE
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DATE: 1.
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SHEET NUMBER
4.5
PROJECT NUMBER
99024.02
Cab # Slot Document #
174 C-1

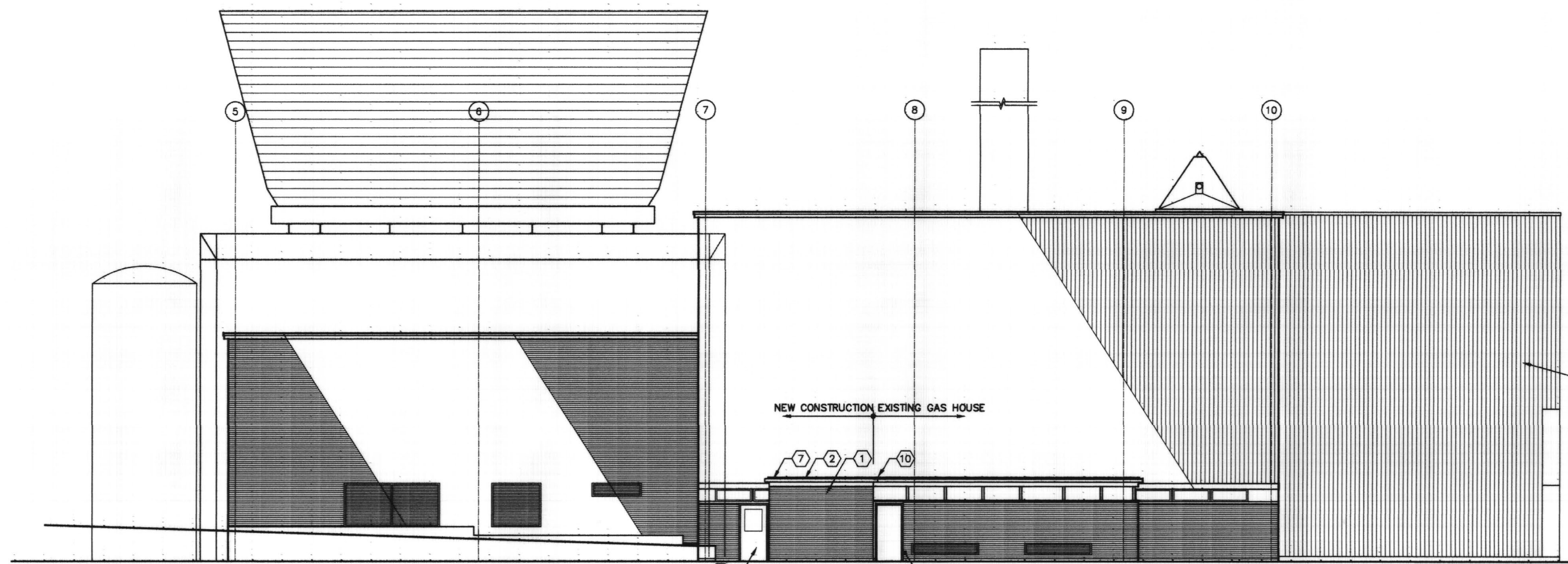
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EAST ELEVATION

1/8" = 1'-0"

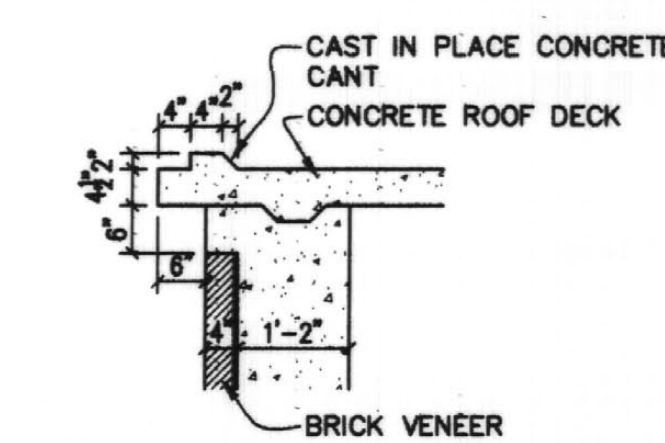
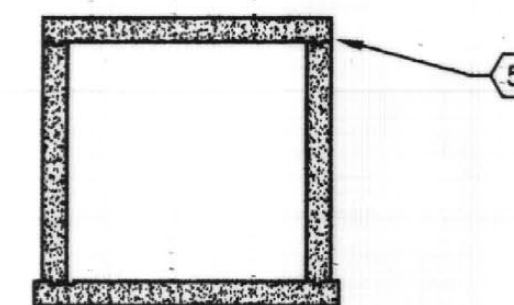
4.6



WEST ELEVATION

1/8" = 1'-0"

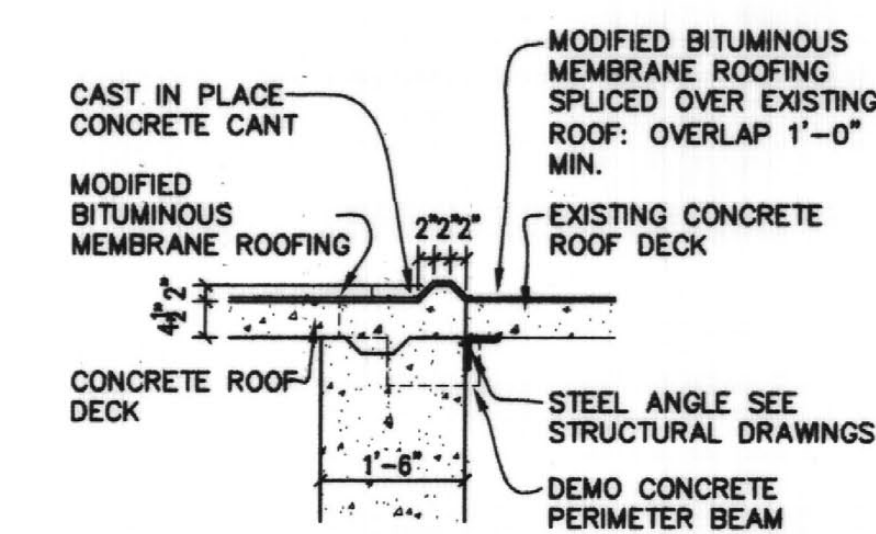
4.6



DETAIL

1/2" = 1'-0"

4.6



DETAIL

1/2" = 1'-0"

4.6

GENERAL NOTES

1. ALL EXTERIOR EXPOSED CONCRETE TO HAVE RUBBED FINISH AND SEALANT.

SHEET NOTES

- 1 CONCRETE STAIR TOWER/SHAFT: CAST-IN-PLACE CONCRETE STRUCTURE, WITH BRICK VENEER. BRICK SHALL MATCH EXISTING BRICK AT GAS HOUSE.
- 2 CONCRETE ROOF STRUCTURE: MATCH EXISTING ROOF PROFILE. REFER TO DETAIL C/4.6
- 3 EXISTING DOOR BEYOND.
- 4 RELOCATED EXISTING DOOR AND FRAME.
- 5 CONCRETE TUNNEL: CAST-IN-PLACE CONCRETE STRUCTURE, WITH BENTONITE WATER PROOFING.
- 6 STEEL COLUMNS: SUPPORT FOR NEW COOLING TOWER. REFER TO STRUCTURAL DRAWINGS.
- 7 MODIFIED BITUMEN ROOFING.
- 8 COOLING PLANT EXPANSION N.I.C.
- 9 NEW COOLING TOWERS
- 10 SEE ENLARGED DETAIL D/4.6



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ELEVATIONS
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE
DATE: DECEMBER, 2000
DRAWN BY: BJ
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DATE 1. #
2. #
3. #
4. #
SHEET NUMBER
4.6
PROJECT NUMBER
99024.02
Cub # Slot Document
174 C-1

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MECH. AND ELEC. LEGEND/KEY PLAN
 UTILITY UPGRADE - PHASE 1
 UNIVERSITY OF KENTUCKY
 LEXINGTON, KENTUCKY

SHEET PROJECT TITLE
 DATE: DECEMBER 2000
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 DATE: _____
 SHEET NUMBER
8.0.0
 PROJECT NUMBER
 90024.02
 Cab # 5104 Document #
 174 C-1 255.694

SITE UTILITIES

SITE UTILITIES LEGEND	
MECHANICAL	
ES	EXISTING SANITARY SEWER
S	NEW SANITARY SEWER
SS	NEW STORM SEWER
FP	FIRE PROTECTION LINE
DW	EXISTING COLD WATER SERVICE
W	NEW COLD WATER SERVICE
EG	EXISTING GAS
G	NEW GAS
CV	CURB VALVE WITH VALVE BOX
V	VALVE WITH VALVE BOX
UM	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
T.E.	TOP ELEVATION
ELECTRICAL	
OH	EXISTING OVERHEAD UTILITIES
OC	OVERHEAD ELECTRIC
EU	ELECTRIC UNDERGROUND
ELUE	EXISTING ELECTRIC UNDERGROUND
BCU	BRANCH CIRCUIT UNDERGROUND
UGP	UNDERGROUND PRIMARY SERVICE
EP	EXISTING UNDERGROUND PRIMARY SERVICE
ET	EXISTING TELEPHONE UNDERGROUND
T	UNDERGROUND TELEPHONE CONDUIT
ESL	EXISTING STREET LIGHTING
LS	LIGHTING STANDARD
PL	EXISTING POST LIGHT
PL	POST LIGHT

MECHANICAL

PLUMBING LEGEND	
SW	SANITARY OR WASTE PIPING
V	VENT PIPING
RL	ROOF LEADER PIPING
SS	STORM SEWER PIPING
SD	STORM DRAIN PIPING
LD	UNDERFLOOR DRAINAGE PIPING
DT	DRAIN TILE
CW	COLD WATER PIPING
HW	HOT WATER PIPING
HR	HOT WATER RECIRCULATING PIPING
G	GAS PIPING
A	AIR PIPING
ELB (UP)	ELBOW (UP)
ELB (DOWN)	ELBOW (DOWN)
ELB (SIDE)	ELBOW (SIDE)
TEE (UP)	TEE (UP)
TEE (DOWN)	TEE (DOWN)
TEE (SIDE)	TEE (SIDE)
UNION	UNION
REDUCER OR INCREASER	REDUCER OR INCREASER

MEDICAL GAS LEGEND

O ₂	OXYGEN PIPING
N ₂ O	NITROUS OXIDE PIPING
N ₂	NITROGEN PIPING
MA	MEDICAL AIR PIPING
CO ₂	CARBON DIOXIDE SYSTEM

MECHANICAL

FIRE PROTECTION LEGEND	
FP	FIRE PROTECTION MAN
SBP	SPRINKLER BRANCH PIPING
ELB (UP)	ELBOW (UP)
ELB (DOWN)	ELBOW (DOWN)
ELB (SIDE)	ELBOW (SIDE)
TEE (UP)	TEE (UP)
TEE (DOWN)	TEE (DOWN)
TEE (SIDE)	TEE (SIDE)
SV	SUPERVISED VALVE
ITP	INSPECTOR'S TEST PIPING
FS	FLOW SWITCH
SH	SPRINKLER HEAD (PENDENT)
SHU	SPRINKLER HEAD (UPRIGHT)
SHS	SPRINKLER HEAD (SIDEWALL)
SHSE	SPRINKLER HEAD (SIDEWALL - EXTENDED COVERAGE)
HC	HYDRAULIC CALCULATION REFERENCE POINT

H.V.A.C. PIPING LEGEND

HP	HIGH PRESSURE STEAM
HPR	HIGH PRESSURE CONDENSATE RETURN
MP	MEDIUM PRESSURE STEAM
MPR	MEDIUM PRESSURE CONDENSATE RETURN
LP	LOW PRESSURE STEAM
LPR	LOW PRESSURE CONDENSATE RETURN
SV	STEAM VENT
PD	CONDENSATE PUMP DISCHARGE
SVV	SAFETY RELIEF VALVE VENT
V	VENT
CDS	CONDENSER WATER SUPPLY
CDR	CONDENSER WATER RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
CWS	CHILLED WATER SUPPLY
CWR	CHILLED WATER RETURN
CD	CONDENSATE DRAINAGE
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
TPS	TEMPERATURE CONTROL PRESSURE SENSOR
TPS	TEMPERATURE CONTROL TEMPERATURE SENSOR
GV (SCREWED) --- PLAN, END VIEW	GATE VALVE (SCREWED) --- PLAN, END VIEW
GV (FLANGED) --- PLAN, END VIEW	GATE VALVE (FLANGED) --- PLAN, END VIEW
GV (SCREWED) --- PLAN, END VIEW	GLOBE VALVE (SCREWED) --- PLAN, END VIEW
GV (FLANGED) --- PLAN, END VIEW	GLOBE VALVE (FLANGED) --- PLAN, END VIEW
CV	CHECK VALVE, SILENT CHECK VALVE
3-WAY CONTROL VALVE, 2-WAY CONTROL VALVE	3-WAY CONTROL VALVE, 2-WAY CONTROL VALVE
CB	COMB. BALANCING SHUT-OFF VALVE --- PLAN, END VIEW
BS	BASKET STRAINER
3/4" DRAIN VALVE WITH HOSE CONNECTION	3/4" DRAIN VALVE WITH HOSE CONNECTION
SRV	SAFETY RELIEF VALVE
Y-TYPE STRAINER WITH DRAIN VALVE	Y-TYPE STRAINER WITH DRAIN VALVE
FC	FLEXIBLE CONNECTOR
PG	PRESSURE GAUGE
TEMPERATURE GAUGE	TEMPERATURE GAUGE
UNION	UNION
MAV (PLAN, ELEVATION)	MANUAL AIR VENT --- PLAN, ELEVATION
AAV (PLAN, ELEVATION)	AUTOMATIC AIR VENT --- PLAN, ELEVATION
CR	CONCENTRIC REDUCER --- PLAN, ELEVATION
ECR	ECCENTRIC REDUCER --- PLAN, ELEVATION
BV	BUTTERFLY VALVE
BV	BALL VALVE
FC	FLANGED CONNECTION
NV	NEEDLE VALVE IN GAUGE LINE
FI	FLOW INDICATOR

MECHANICAL ABBREVIATIONS

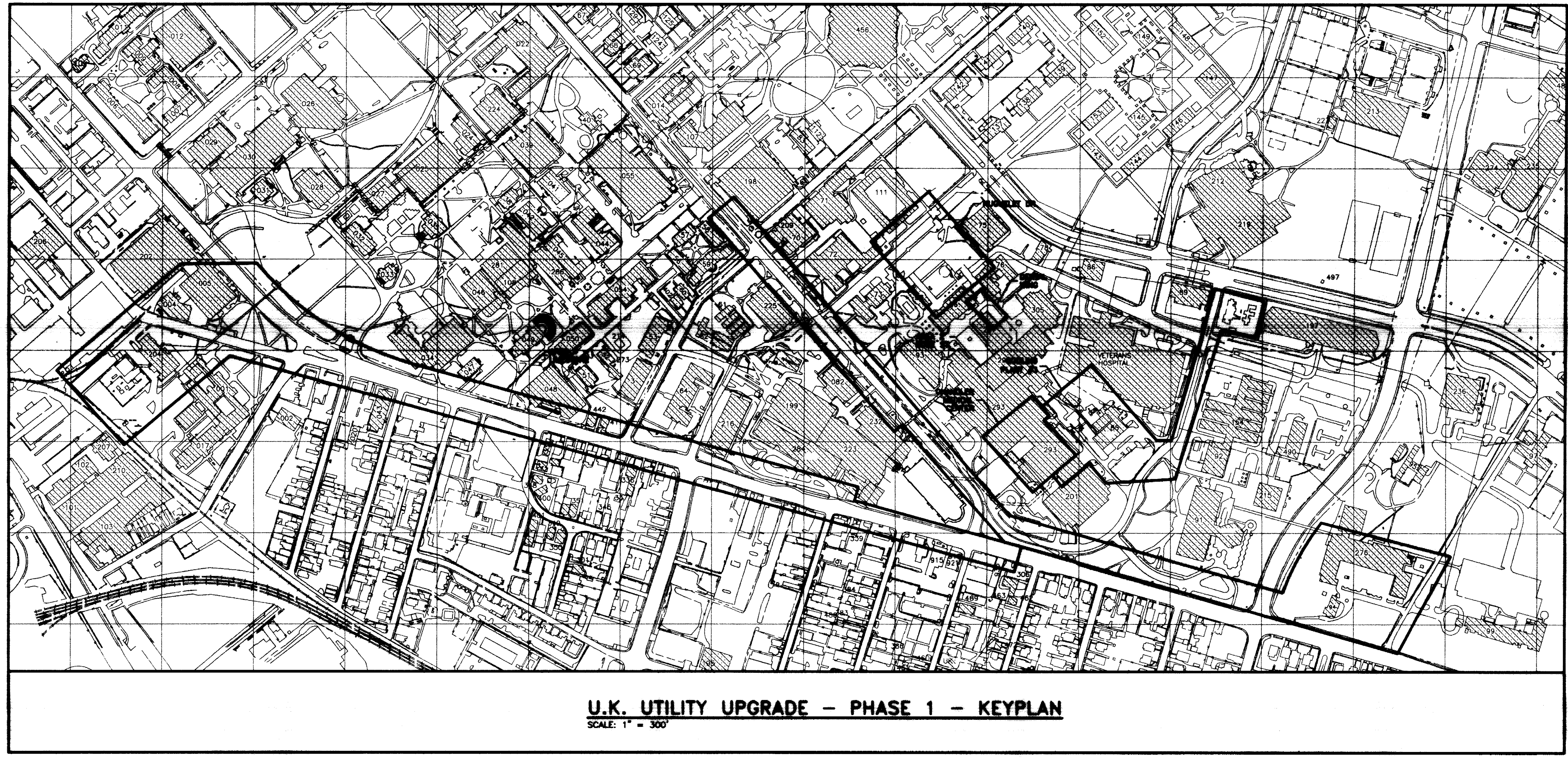
PLUMBING	
C.I.	CAST IRON
C.O.	CLEANOUT
CW	COLD WATER
FD	FLOOR DRAIN
HW	HOT WATER
RD	ROOF DRAIN
VTR	VENT-THROUGH-ROOF
VCP	VITRIFIED CLAY PIPE
H.V.A.C.	
A.A.V.	AUTOMATIC AIR VENT
A.D.	ACCESS DOOR
A.F.	ABOVE FLOOR
E.M.D.	END OF MAIN DRIP
F.M.S.	FLOW MEASURING STATION
M.A.V.	MANUAL AIR VENT
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
T.A.V.	THERMOSTATIC AIR VENT
T.C.P.	TEMPERATURE CONTROL PANEL
V.B.	VACUUM BREAKER
V.F.C.	VARIABLE FREQUENCY CONTROLLER

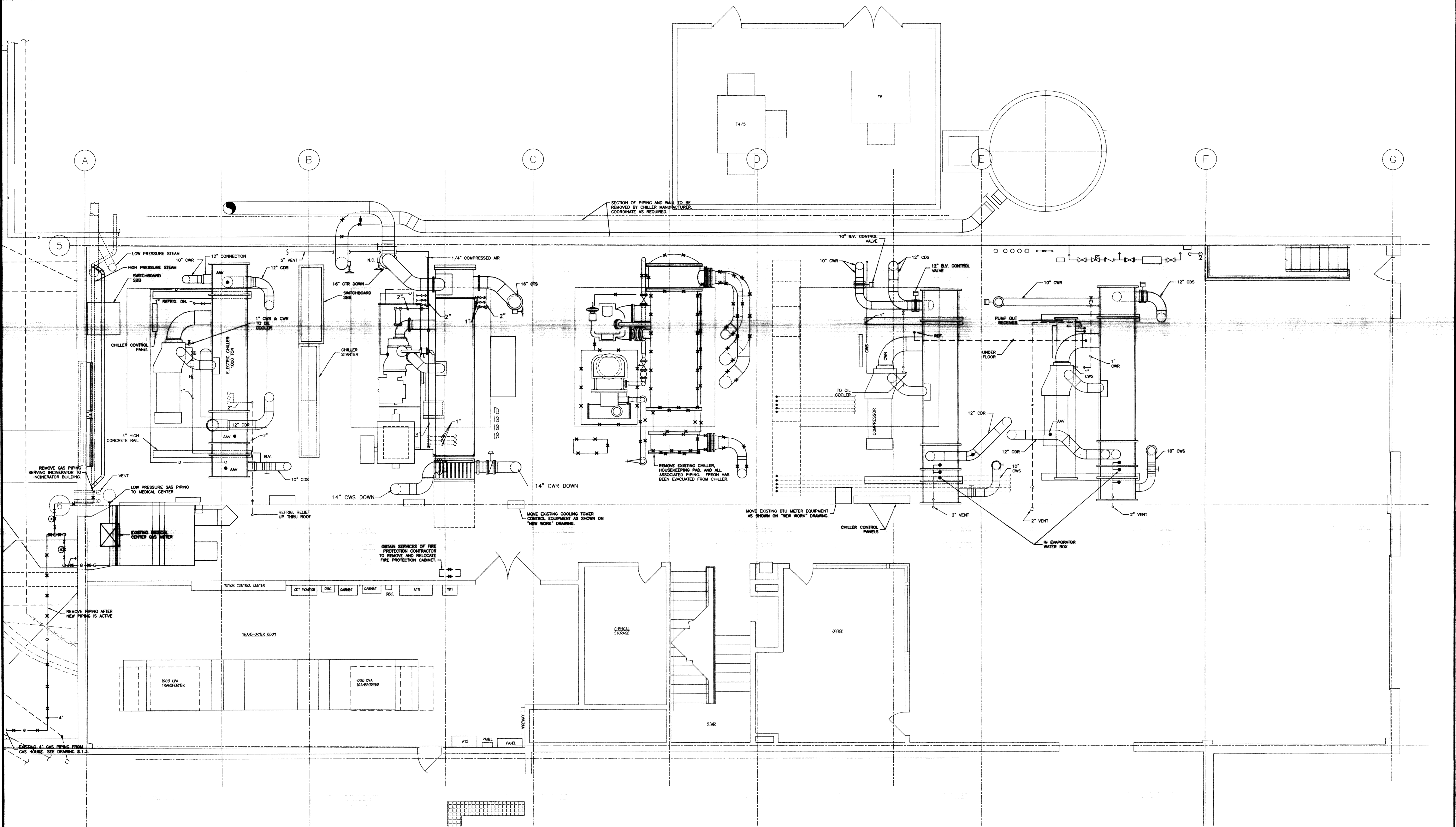
ELECTRICAL CONDUITS, LIGHTING, ETC.

CB	CONDUIT BELOW FLOOR
CA	CONDUIT ABOVE FLOOR
WB	WIREWAY OR DUCT BANK
DC	D.C. CIRCUIT IN CONDUIT (MINIMUM #10 WIRE)
CO	CEILING OUTLET FOR LIGHT FIXTURE
EP	ENTRANCE POINT OF CONDUIT THROUGH FLOOR
PC	PANELBOARD OR TERMINAL CABINET
JB	JUNCTION BOX
DS	DISCONNECT SWITCH
SEE NOTE 1 THIS SHEET	SEE NOTE 1 THIS SHEET
RO	RECEPTACLES (BOTTOM 16" A.F.F.) (EXCEPT AS NOTED OTHERWISE)
GFI	GROUND FAULT INTERRUPTING OUTLET
WO	WEATHERPROOF OUTLET
WO	WALL OUTLET (240V., 1-PHASE) (RATING AS NOTED)
WS	WALL SWITCHES (BOTTOM 44" A.F.F.) (EXCEPT AS NOTED OTHERWISE)
SP	SINGLE POLE

ELECTRICAL ELECTRICAL ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
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
NOTE: ALL DASHED DEVICES, OUTLETS, ETC., ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.	
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	



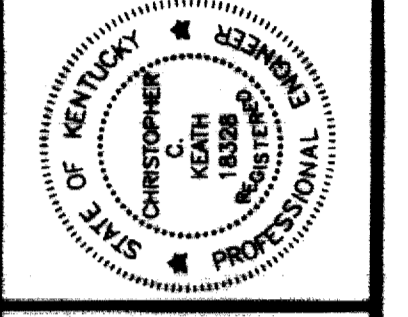


H.V.A.C. DEMOLITION - FIRST FLOOR PLAN

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

NOTE:
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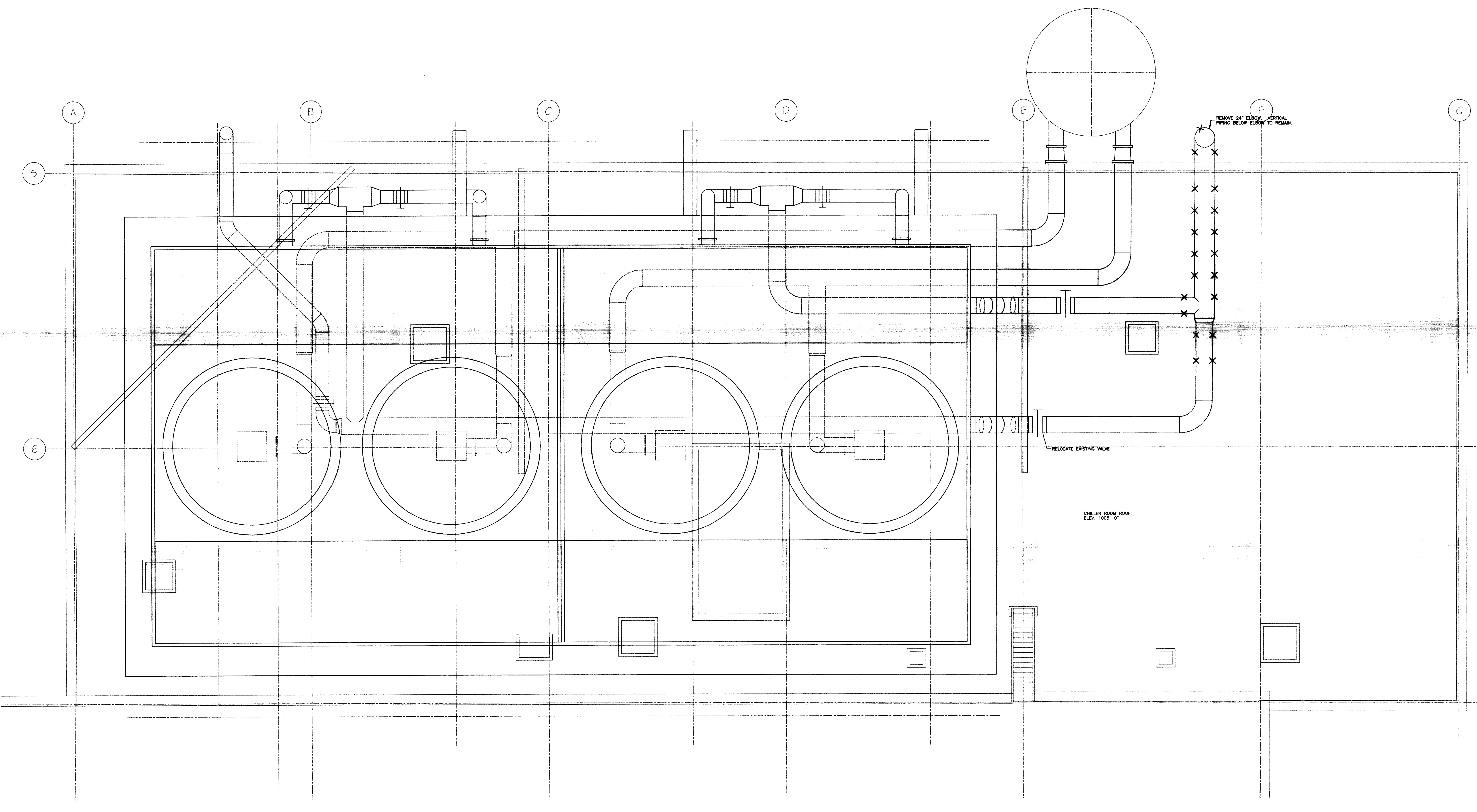
RECORD DRAWINGS DATE 11/10/03
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 STAGGS & FISHER CONSULTING ENGINEERS, INC.



DESIGNED BY: [Name]
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 IN CHARGE: [Name]
 PROJECT NO. 98024.02

H.V.A.C. DEMOLITION - FIRST FLOOR PLAN
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHT.	PROJECT TITLE
DATE:	DECEMBER, 2000
DRAWN BY:	OKK
CHECKED BY:	OKK
REVISION:	
DATE:	3/7/01 ADDITIONAL
	3/3/01 ADDITIONAL
	8/3/01 STARTER REV
	12/8/01 GAS PIPING
SHEET NUMBER:	8.1.1
PROJECT NUMBER:	98024.02
Doc #	
174	C-1



H.V.A.C. DEMOLITION - ROOF PLAN
 SHEET SCALE: 1/4" = 1'-0"

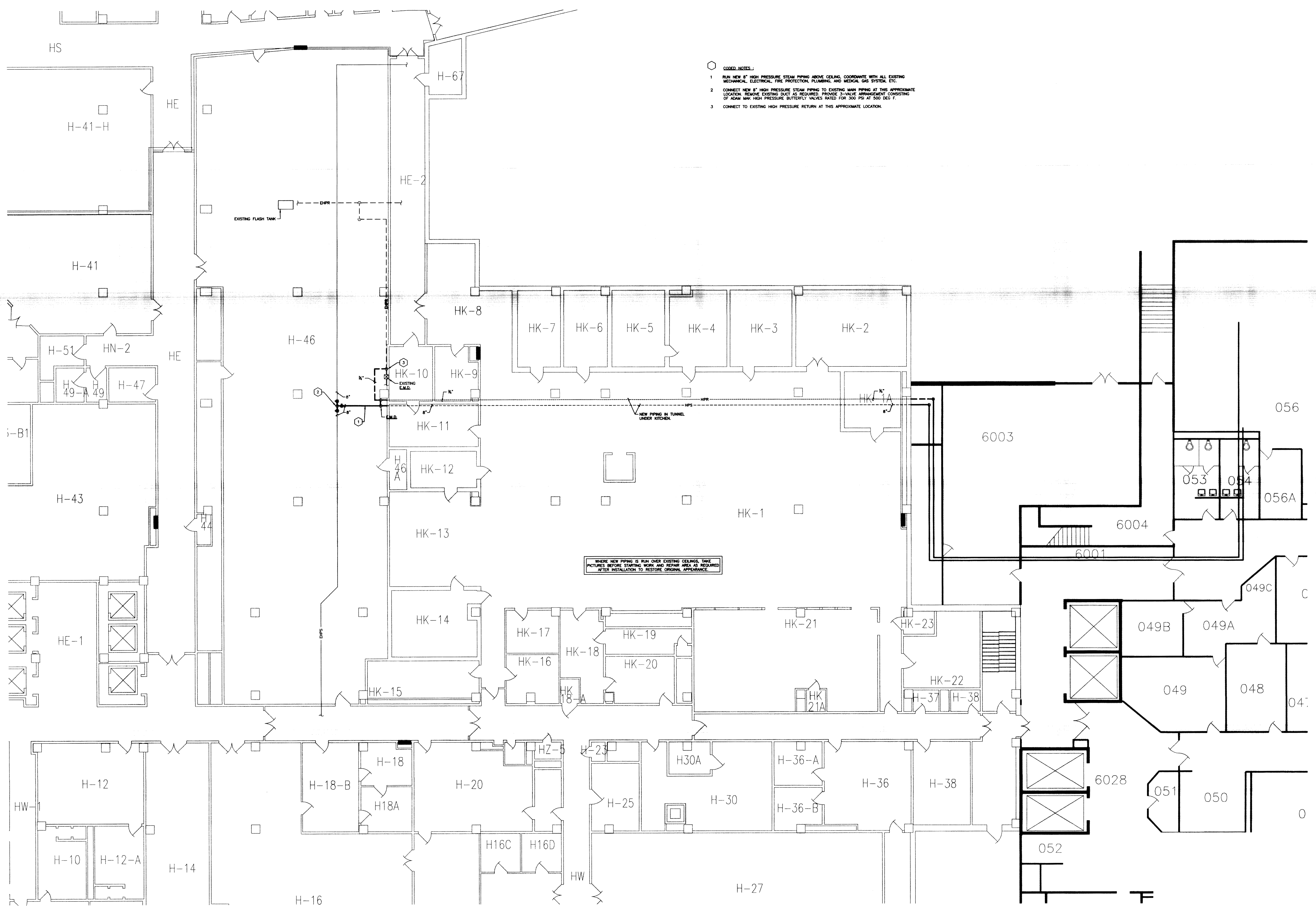
NOTE:
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RECORD DRAWINGS DATE 11/10/03
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 STAGGS & FISHER CONSULTING ENGINEERS, INC.

FAILURE TO MAKE BY THE CONTRACTOR THE NECESSARY PROVISIONS FOR THE PROTECTION OF THE EXISTING UTILITIES AND STRUCTURES SHALL BE AT THE CONTRACTOR'S RISK AND WITHOUT LIABILITY TO THE ENGINEER.

H.V.A.C. DEMOLITION - ROOF PLAN
 UTILITY UPGRADE - PHASE 1
 UNIVERSITY OF KENTUCKY
 LEXINGTON, KENTUCKY

SHT. PROJECT TITLE
 DATE: DECEMBER, 2000
 DRAWN BY: CCK
 CHECKED BY: CCK
 REVISED:
 DATE: 2/3/02 FIELD REV.
 SHEET NUMBER: 8.1.2
 PROJECT NUMBER: 99024.02
 174 C-1 25487



- CODED NOTES:**
- 1 RUN NEW 8" HIGH PRESSURE STEAM PIPING ABOVE CEILING, COORDINATE WITH ALL EXISTING MECHANICAL, ELECTRICAL, FIRE PROTECTION, PLUMBING, AND MEDICAL GAS SYSTEM, ETC.
 - 2 CONNECT NEW 8" HIGH PRESSURE STEAM PIPING TO EXISTING MAIN PIPING AT THIS APPROXIMATE LOCATION. REMOVE EXISTING DUCT AS REQUIRED. PROVIDE 3-VALVE ARRANGEMENT CONSISTING OF ADAM MARK HIGH PRESSURE BUTTERFLY VALVES RATED FOR 300 PSI AT 500 DEG F.
 - 3 CONNECT TO EXISTING HIGH PRESSURE RETURN AT THIS APPROXIMATE LOCATION.

WHERE NEW PIPING IS RUN OVER EXISTING CEILINGS, TAKE PICTURES BEFORE STARTING WORK AND REPAIR AREA AS REQUIRED AFTER INSTALLATION TO RESTORE ORIGINAL APPEARANCE.

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NEW STEAM PIPING PLAN - PARTIAL BASEMENT FLOOR
 SHEET SCALE: 1/8" = 1'-0"

CHANDLER MEDICAL CENTER

CJM
 CHRISTMAN - MILLER - WOODFORD - INC.
 205 S. BROADWAY - LEXINGTON, KENTUCKY 40517

SF
 Stagg and Fisher
 Consulting Engineers, Inc.
 1204 Lokenburg Drive
 Lexington, Kentucky 40517

STATE OF KENTUCKY
 PROFESSIONAL ENGINEER
 No. 10000
 STAGGS & FISHER CONSULTING ENGINEERS, INC.

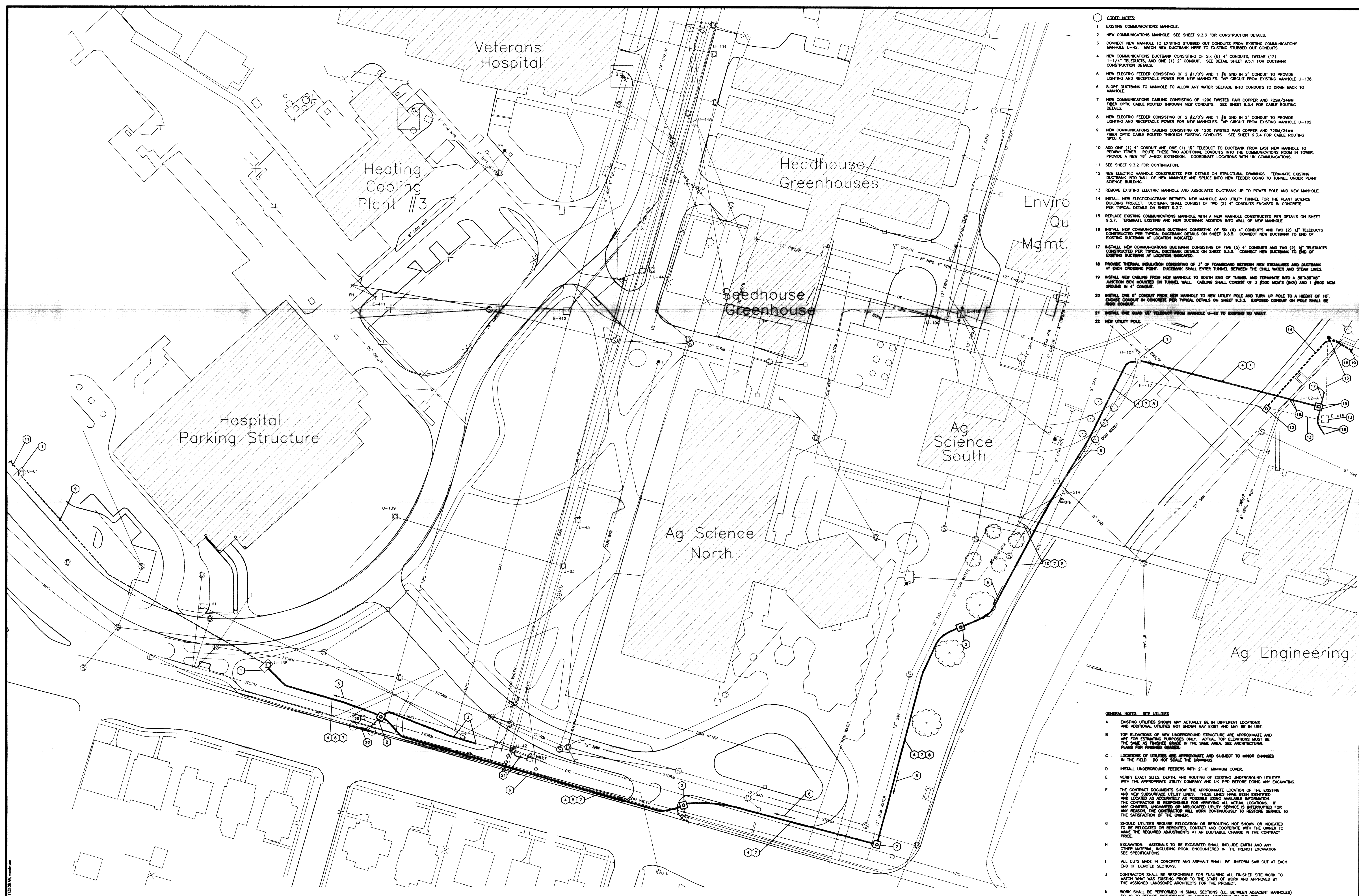
NEW STEAM PIPING PLAN - PARTIAL BASEMENT FLOOR
 UTILITY UPGRADE - PHASE 1
 UNIVERSITY OF KENTUCKY
 LEXINGTON, KENTUCKY

SHT. PROJECT TITLE
 DATE: DECEMBER, 2000
 DRAWN BY: ag
 CHECKED BY: cck
 REVISED: 1
 DATE
 1 10/11/01 STEAM PIPING
 2 11/24/01 STEAM PIPING

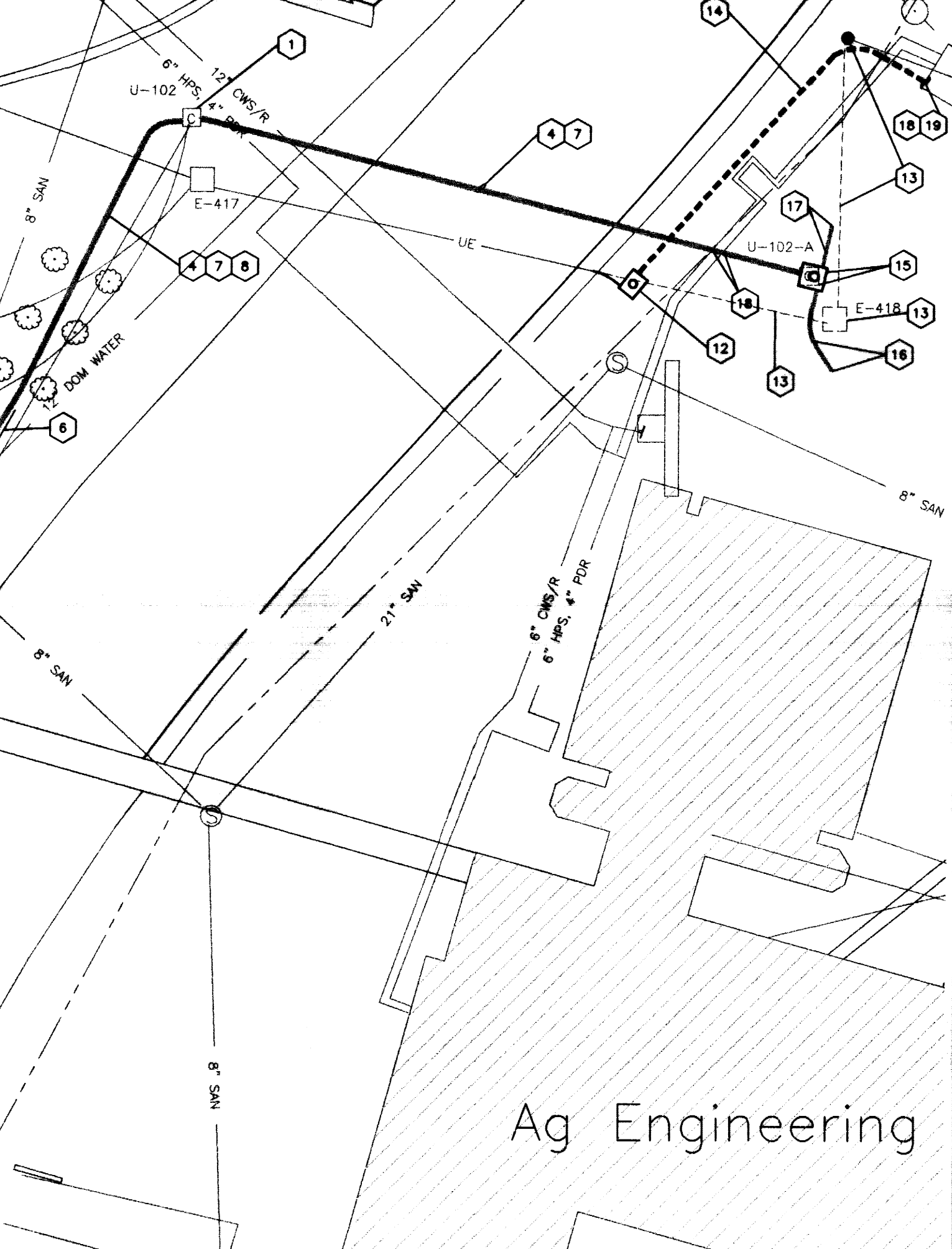
SHEET NUMBER
8.6.1

PROJECT NUMBER
 99024.02

Cad # 174 C-1 25494



- COULD NOTES:**
- EXISTING COMMUNICATIONS MANHOLE. SEE SHEET 9.3.3 FOR CONSTRUCTION DETAILS.
 - NEW COMMUNICATIONS MANHOLE. SEE SHEET 9.3.3 FOR CONSTRUCTION DETAILS.
 - CONNECT NEW MANHOLE TO EXISTING STUBBED OUT CONDUITS FROM EXISTING COMMUNICATIONS MANHOLE U-42. MATCH NEW DUCTBANK HERE TO EXISTING STUBBED OUT CONDUITS.
 - NEW COMMUNICATIONS DUCTBANK CONSISTING OF SIX (6) 4" CONDUITS, TWELVE (12) 1-1/4" TELEDUCTS, AND ONE (1) 2" CONDUIT. SEE DETAIL SHEET 9.3.1 FOR DUCTBANK CONSTRUCTION DETAILS.
 - NEW ELECTRIC FEEDER CONSISTING OF 2 #1/0'S AND 1 #6 GND IN 2" CONDUIT TO PROVIDE LIGHTING AND RECEPTACLE POWER FOR NEW MANHOLES. TAP CIRCUIT FROM EXISTING MANHOLE U-138.
 - SLOPE DUCTBANK TO MANHOLE TO ALLOW ANY WATER SEEPAGE INTO CONDUITS TO DRAIN BACK TO MANHOLE.
 - NEW COMMUNICATIONS CABLES CONSISTING OF 1200 TWISTED PAIR COPPER AND 725M/24MM FIBER OPTIC CABLE ROUTED THROUGH NEW CONDUITS. SEE SHEET 9.3.4 FOR CABLE ROUTING DETAILS.
 - NEW ELECTRIC FEEDER CONSISTING OF 2 #2/0'S AND 1 #6 GND IN 2" CONDUIT TO PROVIDE LIGHTING AND RECEPTACLE POWER FOR NEW MANHOLES. TAP CIRCUIT FROM EXISTING MANHOLE U-102.
 - NEW COMMUNICATIONS CABLES CONSISTING OF 1200 TWISTED PAIR COPPER AND 725M/24MM FIBER OPTIC CABLE ROUTED THROUGH EXISTING CONDUITS. SEE SHEET 9.3.4 FOR CABLE ROUTING DETAILS.
 - ADD ONE (1) 4" CONDUIT AND ONE (1) 1/2" TELEDUCT TO DUCTBANK FROM LAST NEW MANHOLE TO PEDWAY TOWER. ROUTE THESE TWO ADDITIONAL CONDUITS INTO THE COMMUNICATIONS ROOM IN TOWER. PROVIDE A NEW 4" 180' EXTENSION. COORDINATE LOCATIONS WITH UK COMMUNICATIONS.
 - SEE SHEET 9.3.2 FOR CONTINUATION.
 - NEW ELECTRIC MANHOLE CONSTRUCTED PER DETAILS ON STRUCTURAL DRAWINGS. TERMINATE EXISTING DUCTBANK INTO WALL OF NEW MANHOLE AND SPICE INTO NEW FEEDER GOING TO TUNNEL UNDER PLANT SCIENCE BUILDING.
 - REMOVE EXISTING ELECTRIC MANHOLE AND ASSOCIATED DUCTBANK UP TO POWER POLE AND NEW MANHOLE.
 - INSTALL NEW ELECTRODUCTBANK BETWEEN NEW MANHOLE AND UTILITY TUNNEL FOR THE PLANT SCIENCE BUILDING PROJECT. DUCTBANK SHALL CONSIST OF TWO (2) 4" CONDUITS ENCASED IN CONCRETE PER TYPICAL DETAILS ON SHEET 9.2.7.
 - REPLACE EXISTING COMMUNICATIONS MANHOLE WITH A NEW MANHOLE CONSTRUCTED PER DETAILS ON SHEET 9.3.7. TERMINATE EXISTING AND NEW DUCTBANK ADDITION INTO WALL OF NEW MANHOLE.
 - INSTALL NEW COMMUNICATIONS DUCTBANK CONSISTING OF SIX (6) 4" CONDUITS AND TWO (2) 1/2" TELEDUCTS CONSTRUCTED PER TYPICAL DUCTBANK DETAILS ON SHEET 9.3.3. CONNECT NEW DUCTBANK TO END OF EXISTING DUCTBANK AT LOCATION INDICATED.
 - INSTALL NEW COMMUNICATIONS DUCTBANK CONSISTING OF FIVE (5) 4" CONDUITS AND TWO (2) 1/2" TELEDUCTS CONSTRUCTED PER TYPICAL DUCTBANK DETAILS ON SHEET 9.3.3. CONNECT NEW DUCTBANK TO END OF EXISTING DUCTBANK AT LOCATION INDICATED.
 - PROVIDE THERMAL INSULATION CONSISTING OF 3" OF FOAMBOARD BETWEEN NEW STEAMLINES AND DUCTBANK AT EACH CROSSING POINT. DUCTBANK SHALL ENTER TUNNEL BETWEEN THE CHILL WATER AND STEAM LINES.
 - INSTALL NEW CABLES FROM NEW MANHOLE TO SOUTH END OF TUNNEL AND TERMINATE INTO A 36"x36"x18" SECTION BOX MOUNTED ON TUNNEL WALL. CABLES SHALL CONSIST OF 3 #000 MCM'S (3WY) AND 1 #000 MCM GROUND IN 4" CONDUIT.
 - INSTALL ONE 8" CONDUIT FROM NEW MANHOLE TO NEW UTILITY POLE AND TURN UP POLE TO A HEIGHT OF 10'. ENCASE CONDUIT IN CONCRETE PER TYPICAL DETAILS ON SHEET 9.3.3. EXPOSED CONDUIT ON POLE SHALL BE PROTECTED BY 1/2" GALVANIZED STEEL BUSHING.
 - INSTALL ONE QUAD 1/2" TELEDUCT FROM MANHOLE U-42 TO EXISTING KIP VALVE.
 - NEW UTILITY POLE.



- GENERAL NOTES - SITE UTILITIES**
- EXISTING UTILITIES SHOWN MAY ACTUALLY BE IN DIFFERENT LOCATIONS AND ADDITIONAL UTILITIES NOT SHOWN MAY EXIST AND MAY BE IN USE.
 - TOP ELEVATIONS OF NEW UNDERGROUND STRUCTURE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. ACTUAL TOP ELEVATIONS MUST BE THE SAME AS FINISHED GRADE IN THE SAME AREA. SEE ARCHITECTURAL PLANS FOR FINISHED GRADES.
 - LOCATIONS OF UTILITIES ARE APPROXIMATE AND SUBJECT TO MINOR CHANGES IN THE FIELD. DO NOT SCALE THE DRAWINGS.
 - INSTALL UNDERGROUND FEEDERS WITH 2'-0" MINIMUM COVER.
 - VERIFY EXACT SIZES, DEPTH, AND ROUTING OF EXISTING UNDERGROUND UTILITIES WITH THE APPROPRIATE UTILITY COMPANY AND UK PPD BEFORE DOING ANY EXCAVATING.
 - THE CONTRACT DOCUMENTS SHOW THE APPROXIMATE LOCATION OF THE EXISTING AND NEW UNDERGROUND UTILITY LINES. THESE LINES HAVE BEEN IDENTIFIED AND LOCATED AS ACCURATELY AS POSSIBLE USING AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL LOCATIONS. IF ANY CHANGED, UNLOCATED OR MISLOCATED UTILITY SERVICE IS IDENTIFIED FOR ANY REASON, THE CONTRACTOR WILL WORK CONTINUOUSLY TO RESTORE SERVICE TO THE SATISFACTION OF THE OWNER.
 - IF UTILITIES REQUIRE RELOCATION OR REROUTING NOT SHOWN OR INDICATED TO BE RELOCATED OR REROUTED, CONTACT AND COOPERATE WITH THE OWNER TO MAKE THE REQUIRED ADJUSTMENTS AT AN EQUITABLE CHANGE IN THE CONTRACT PRICE.
 - EXCAVATION: MATERIALS TO BE EXCAVATED SHALL INCLUDE EARTH AND ANY OTHER MATERIALS, INCLUDING ROCK, ENCOUNTERED IN THE TRENCH EXCAVATION. SEE SPECIFICATIONS.
 - ALL CUTS MADE IN CONCRETE AND ASPHALT SHALL BE UNIFORM SAW CUT AT EACH END OF DEMOTED SECTIONS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL FINISHED SITE WORK TO MATCH WHAT WAS EXISTING PRIOR TO THE START OF WORK AND APPROVED BY THE ASSIGNED LANDSCAPE ARCHITECTS FOR THE PROJECT.
 - WORK SHALL BE PERFORMED IN SMALL SECTIONS (I.E. BETWEEN ADJACENT MANHOLES) SO AS TO REDUCE DISTURBANCE OF NORMAL ACTIVITIES ON THE SITE.
 - KEEP ALL EXCAVATION WORK OUTSIDE OF TREE DRIP LINES WHENEVER POSSIBLE. WHENEVER ROOT ZONES ARE ENCOUNTERED, HAND DIG AROUND ROOTS TO RELIEVE.
 - ALL TRENCH PATHS FOR EACH NEW SECTION OF DUCTBANK SHALL BE STAKED OUT FOR TRENCH WIDTH AND APPROVED BY OWNER, ARCHITECTS, AND ENGINEERS PRIOR TO START OF EXCAVATION.
 - REFER TO H.V.A.C. DETAILS (SHEET 8.9.2) FOR UTILITY MARKER DETAIL.

NEW COMMUNICATION DUCTBANK - AG SCIENCE
SCALE: 1" = 40'

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STAGGS & FISHER CONSULTING ENGINEERS, INC.

CJM
CHRISMAN MILLER WOODFORD, INC.
ARCHITECTURE ENGINEERING PLANNING INTERIORS LANDSCAPE ARCHITECTURE
505 BROADWAY
LEXINGTON, KENTUCKY 40517
(606) 254-8423

SF
Staggs and Fisher
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2000 Lexington Road
Lexington, Kentucky 40517
(606) 254-8423

AGRICULTURAL SCIENCE - ELECTRICAL SITE PLAN
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

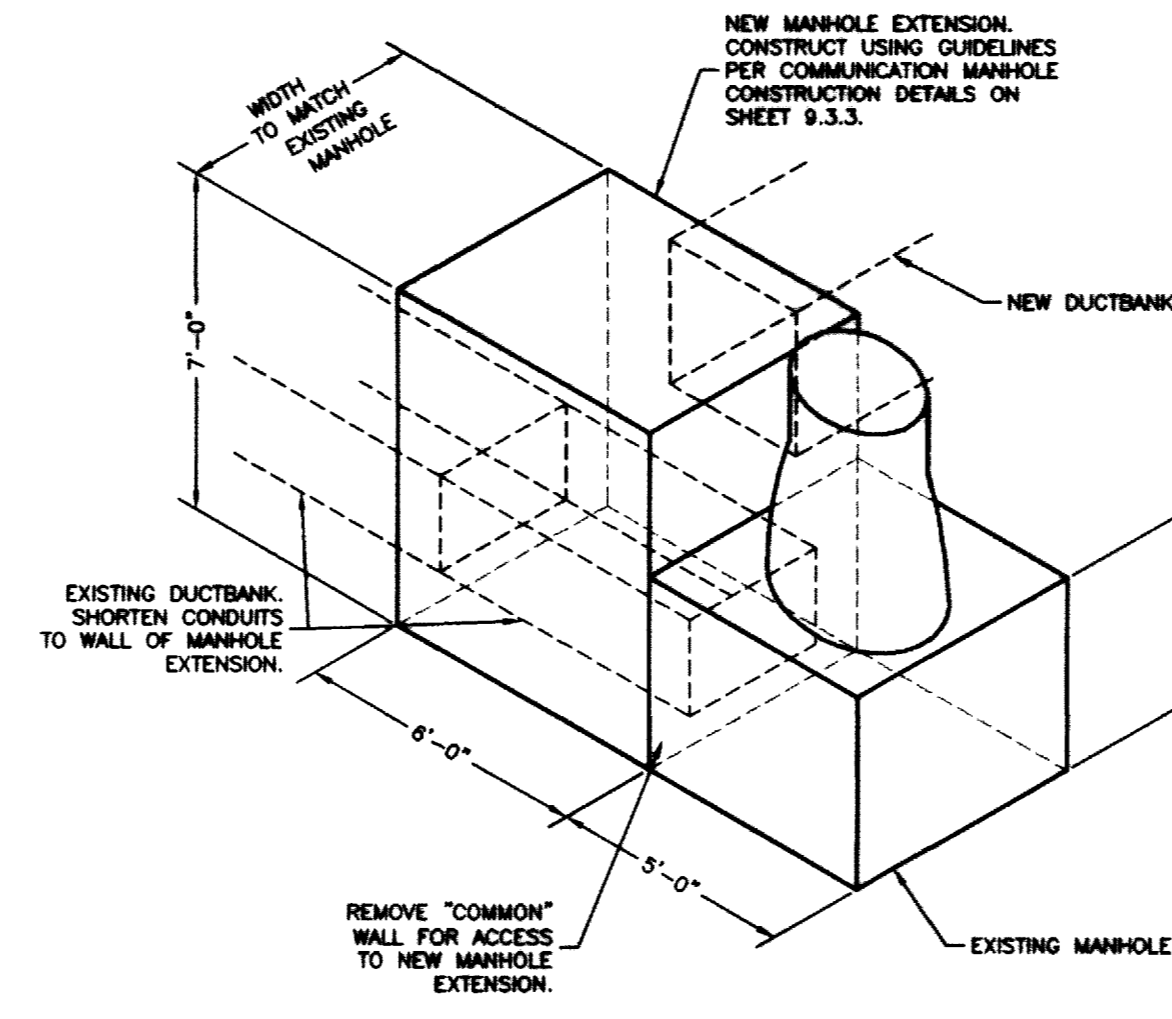
SHT. PROJECT TITLE

DATE: DECEMBER, 2000
DRAWN BY: wph
CHECKED BY: gdc
REVISION:
DATE 4/17/01 REVISION 1
8/28/01 REVISION 2
8/30/01 REVISION 3
9/17/01 REVISION 4

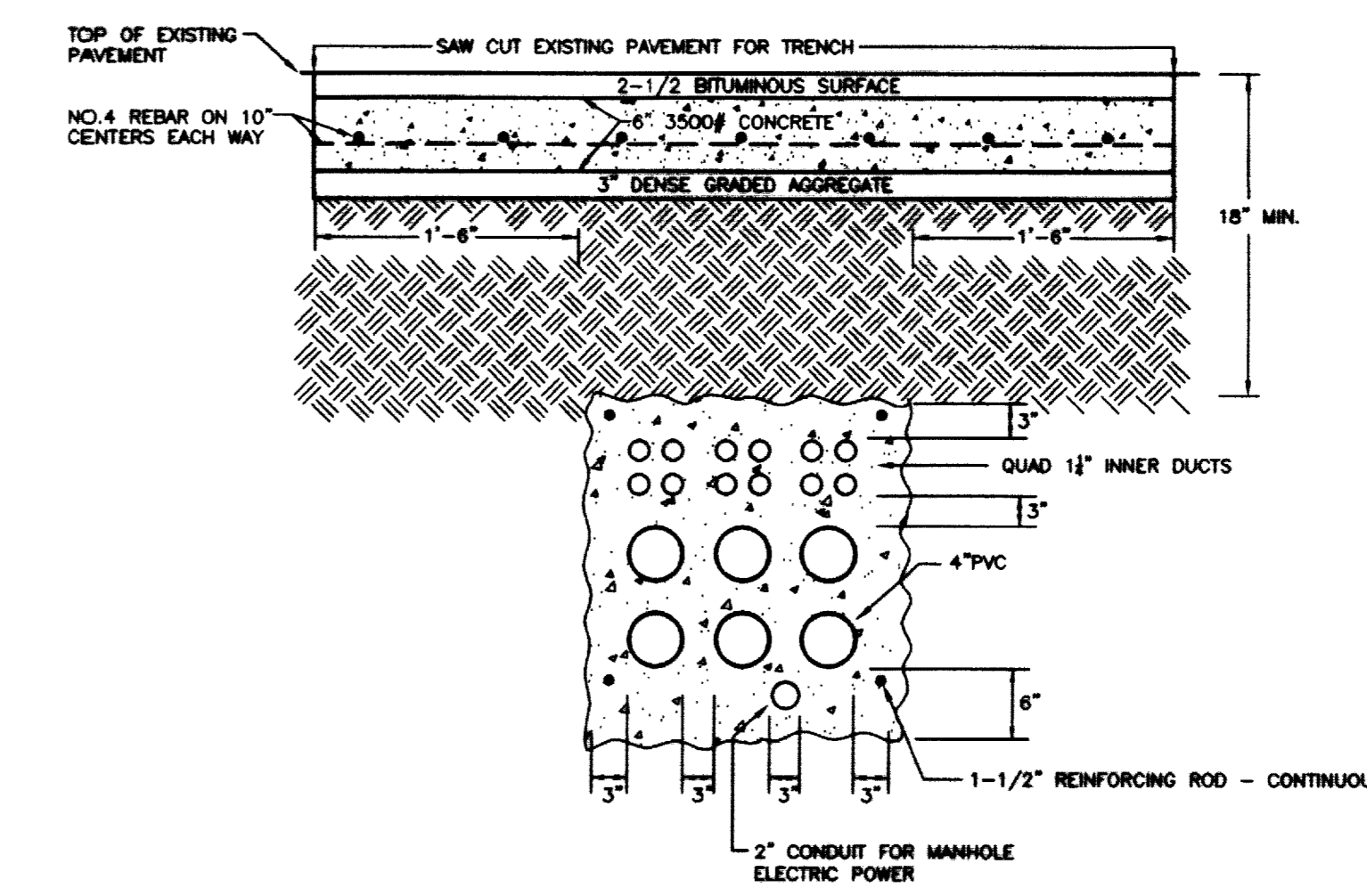
SHEET NUMBER
9.5.0

PROJECT NUMBER
99024.02

AREA #5 - AG SCIENCE

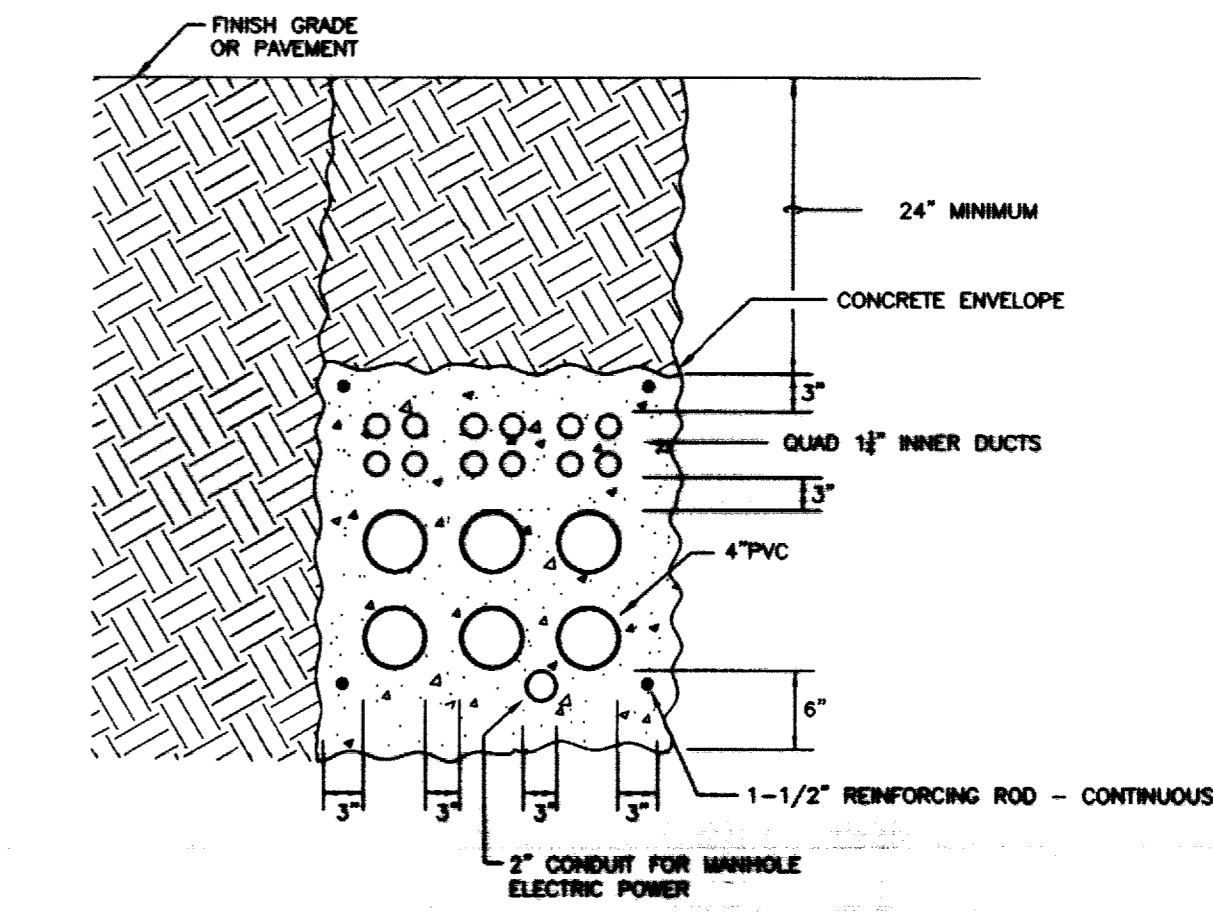


EXTENSION TO MANHOLE U-102



NOTE:
SEE SHEET 9.5.0 FOR
NUMBER OF CONDUITS

**TYPICAL INSTALLATION DETAIL
OF DUCTBANK UNDER ROADWAY**
NO SCALE



NOTE:
SEE SHEET 9.5.0 FOR
NUMBER OF CONDUITS

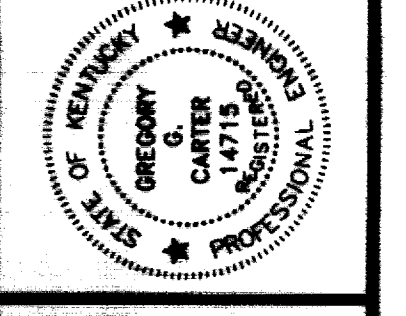
**TYPICAL COMMUNICATION CONDUIT
INSTALLATION DETAIL**
NO SCALE

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STAGGS & FISHER CONSULTING ENGINEERS, INC.

CJM
CHRISTOPHER MILLER, P.E.
REGISTERED PROFESSIONAL ENGINEER
KENTUCKY
1981-24-4823

SF
Staggs and Fisher
Consulting Engineers, Inc.
Lexington, Kentucky 40517



ALL WORK TO BE DONE BY CONTRACTOR. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS. CONTRACTOR TO MAINTAIN ALL NECESSARY RECORDS AND TO PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO PREVENT DAMAGE TO EXISTING UTILITIES AND STRUCTURES. CONTRACTOR TO MAINTAIN ALL NECESSARY RECORDS AND TO PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO PREVENT DAMAGE TO EXISTING UTILITIES AND STRUCTURES.

AGRICULTURAL SCIENCE - ELECTRICAL DETAILS
UTILITY UPGRADE - PHASE 1
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE
DATE: DECEMBER, 2000
DRAWN BY: WFW
CHECKED BY: GAC
REVISED:
DATE

SHEET NUMBER
9.5.1

PROJECT NUMBER
99024.02



CERTIFICATE OF

SUBSTANTIAL COMPLETION & BENEFICIAL OCCUPANCY (All Data On This Sheet Must Be Typed)

1999

PROJECT NUMBER: 1949.0 PROJECT NAME: UTILITY UPGRADE - PHASE I

PROJECT LOCATION: HOSPITAL DRIVE

PROJECT GROSS SQ. FT. 15,000 (PLANT ONLY) CONSTRUCTION COST: DETERMINED AT COMPLETION

SQ. FT.: RENOVATION 15,000 ADDITION N/A NEW BUILDING N/A

SPRINKLER SYSTEM: YES X NO IF YES, % TYPE:

OTHER SYSTEMS:

SPRINKLER COMPANY:

ADDRESS: PHONE:

ROOF CONSTRUCTION: EXTERIOR SKIN:

FLOOR CONSTRUCTION: INTERIOR WALLS:

A list of items to be completed or corrected, prepared by the Consultant and Owner's Representative, is appended hereto. The failure to include any items on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

STAGGS & FISHER Consultant By Chris Kutt Date 7/25/02

The contractor will complete or correct the Work on the list of items appended hereto with 30 days from the above Date of Substantial Completion.

ENGLISH PAVING Contractor By V.P. Date 7/23/02

The Owner accepts the Work or designated portion thereof as substantially complete and will assume full possession and Beneficial Occupancy thereof at 12:01 A.M. on 06/01/02 (date).

The Owner agrees to assume the responsibility of the operation, maintenance, utilities, and insurance of the Work or designated portion thereof beginning on the above mentioned Date of Substantial Completion.

The year-end inspection is hereby scheduled for 06/01/03 (date).

UNIVERSITY OF KENTUCKY Project Manager Date

This action has been acknowledged by of (Sector).

- Director of Capital Project Management
CPMD Project Manager
Sector Representative
Consultant
Contractor
Beneficial Occupancy File
Business Office
Risk Management
Physical Plant Division
Equipment Inventory

Senior Accountant Date