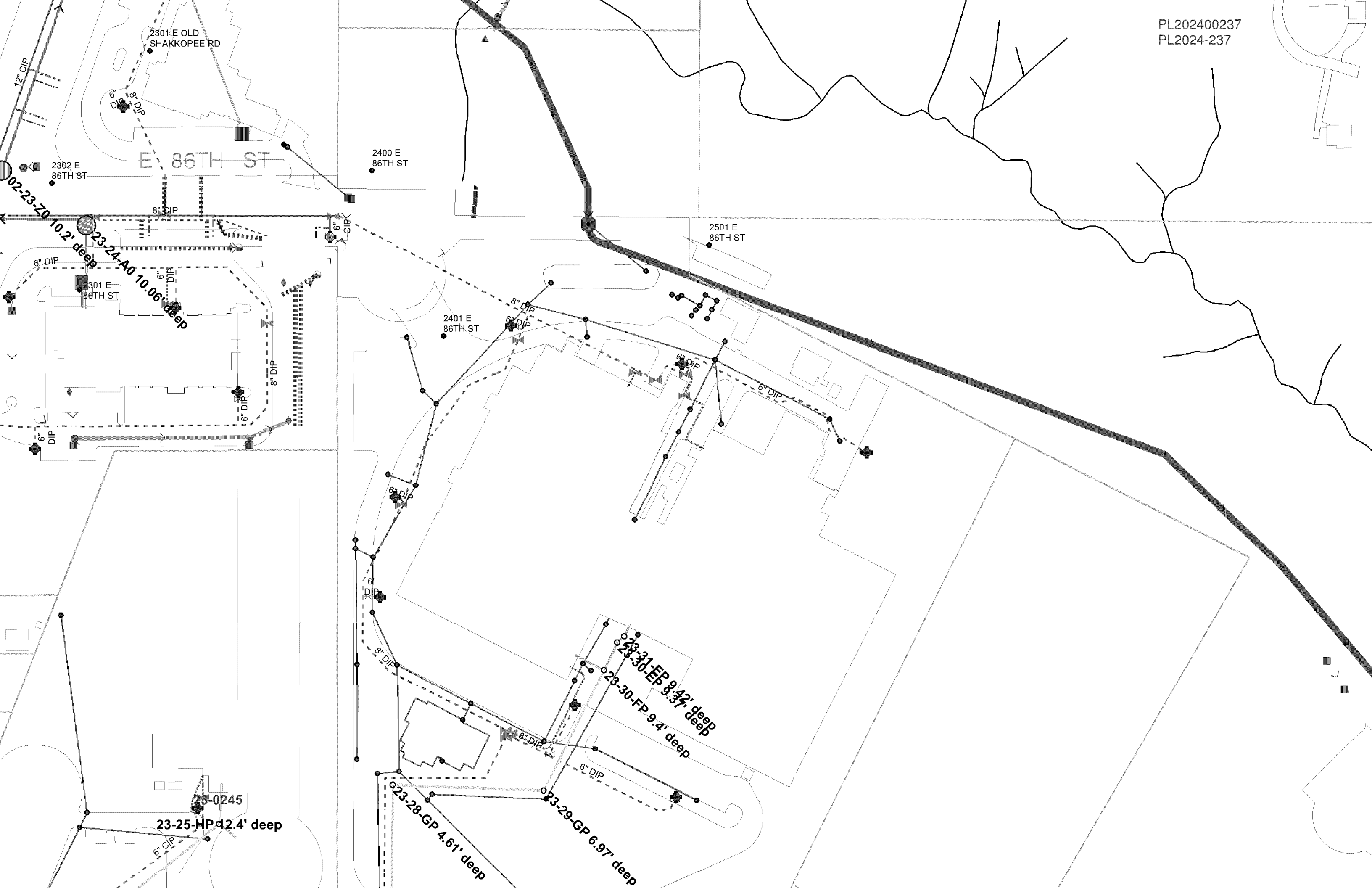
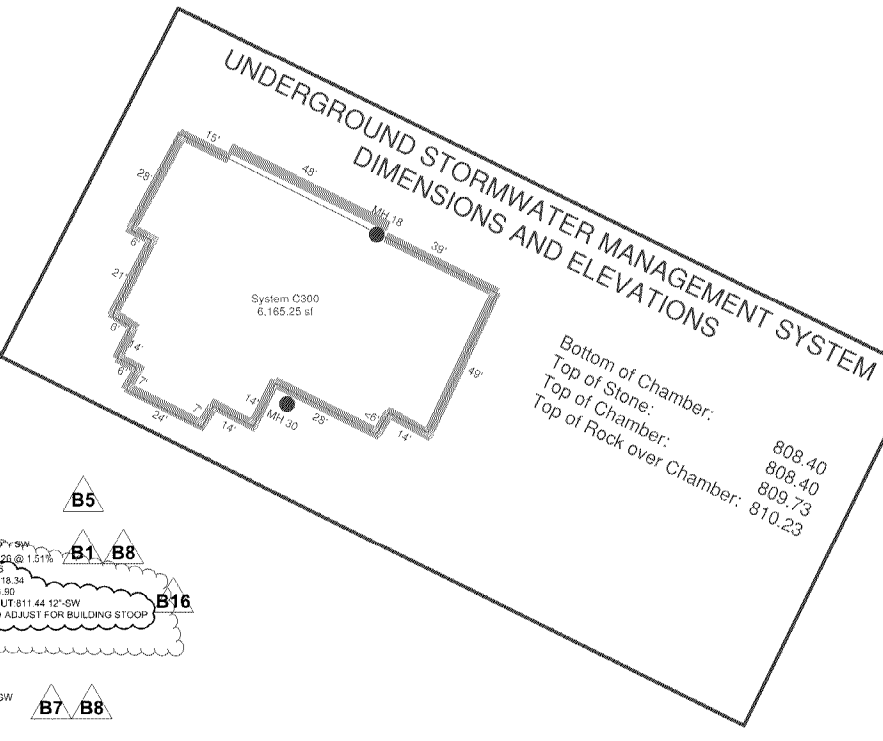
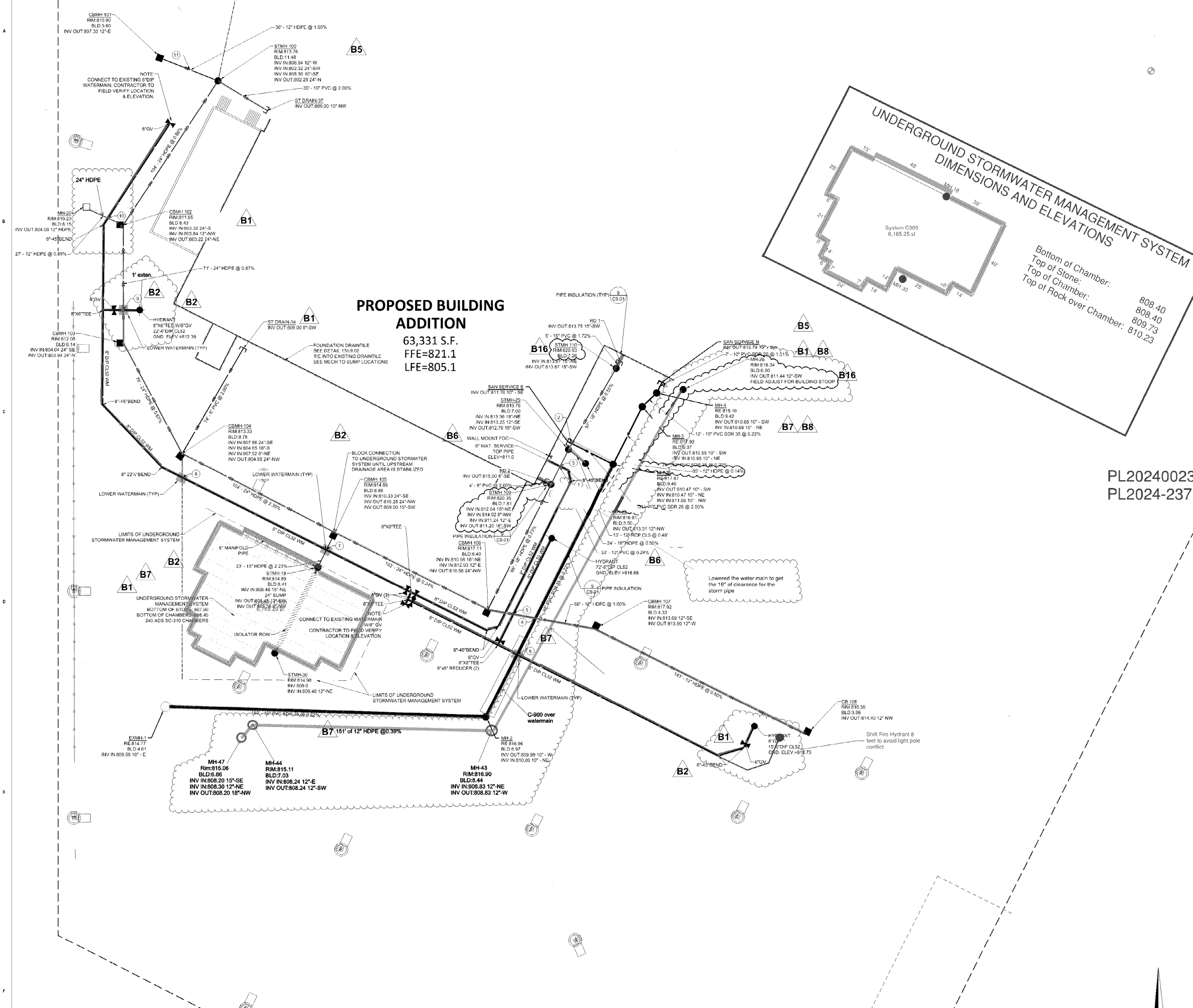






PROPOSED BUILDING ADDITION
63,331 S.F.
FFE=821.1
LFE=805.1

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- CONTRACTOR SHALL OBTAIN A COPY OF THESE SPECIFICATIONS.
- 1.1. ALL UTILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY REQUIREMENTS.
- 1.2. CONTRACTOR SHALL NOT OPEN, TURN OFF, INTERFERE WITH, OR ATTACH ANY PIPE OR HOSE TO OR TAP WATERMAIN BELONGING TO THE CITY UNLESS DULY AUTHORIZED TO DO SO BY THE CITY. ANY ADVERSE CONSEQUENCES OF ANY SCHEDULED OR UNSCHEDULED DISRUPTIONS OF SERVICE TO THE PUBLIC ARE THE LIABILITY OF CONTRACTOR.
- 1.3. A MINIMUM VERTICAL SEPARATION OF 18 INCHES AND HORIZONTAL SEPARATION OF 10-FEET BETWEEN OUTSIDE PIPE DIAMETERS IS REQUIRED AT ALL WATERMAIN AND SEWER MAIN BUILDING, STORM AND SANITARY CROSSINGS.
2. ALL MATERIALS SHALL BE AS SPECIFIED IN CREAM SPECIFICATIONS EXCEPT AS MODIFIED HEREIN.
- 2.1. ALL MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY.
- 2.2. ALL SANITARY SEWER TO BE PVC SDR-35, UNLESS NOTED OTHERWISE.
- 2.2.1. ALL SANITARY SEWER SERVICES TO BUILDING SHALL BE PVC SCH 40 CONFORMING TO ASTM D2665.
- 2.2.2. ALL SANITARY SEWER SHALL HAVE 8" MINIMUM COVER. SANITARY SEWER WITH LESS THAN 8" COVER SHALL BE INSULATED IN ACCORDANCE WITH DETAIL 411 SHEET C0.03.
- 2.2.3. CHIMNEY SEALS ARE REQUIRED ON ALL SANITARY SEWER MANHOLES.
- 2.3. ALL WATERMAIN TO BE DUCTILE IRON - CLASS 52, WITH 8-MIL POLY WRAP, UNLESS NOTED OTHERWISE.
- 2.3.1. ALL WATERMAIN TO HAVE 8 FEET MIN. TO 10-FEET MAX. OF COVER OVER TOP OF WATERMAIN.
- 2.3.2. PROVIDE THRUST BLOCKING AND MECHANICAL JOINT RESTRAINTS ON ALL WATERMAIN JOINTS PER CITY STANDARDS.
- 2.3.3. ALL TAPS OF LIVE WATERMANS SHALL BE DONE BY CITY FORCES AND PAID FOR AND COORDINATED BY THE CONTRACTOR.
- 2.3.4. ALL COMPONENTS OF THE WATER SYSTEM, UP TO THE WATER METER OF FIRE SERVICE EQUIPMENT MUST UTILIZE PROTECTIVE INTERNAL COATINGS MEETING CURRENT ANSI/AWWA STANDARDS FOR CEMENT MORTAR LINING OR SPECIAL COATINGS. THE USE OF UNLINED OR UNCOATED PIPE IS NOT ALLOWED.
- 2.4. ALL STORM SEWER PIPE TO BE SMOOTH INTERIOR DUAL WALL HDPE PIPE WITH WATER TIGHT GASKETS, UNLESS NOTED OTHERWISE.
- 2.4.1. ALL STORM SEWER PIPE FOR ROOF DRAIN SERVICES TO BUILDING SHALL BE PVC SCH 40 CONFORMING TO ASTM D2665.
- 2.4.2. HDPE PIPE CONNECTIONS INTO ALL CONCRETE STRUCTURES MUST BE MADE WITH WATER TIGHT MATERIALS UTILIZING AN A LOK OR WATERSTOP GASKET OR BOOT, CAST-IN-PLACE RUBBER BOOT, OR APPROVED EQUAL. WHERE THE ALIGNMENT PRECLUDES THE USE OF THE ABOVE APPROVED WATERTIGHT METHODS, CONSOLE 231 WATERSTOP SEALANT, OR APPROVED EQUAL WILL ONLY BE ALLOWED AS APPROVED BY THE ENGINEER.
- 2.5. RIP RAP SHALL BE MINOR CLASS 3.
3. COORDINATE ALL BUILDING SERVICE CONNECTION LOCATIONS AND INVERT ELEVATIONS WITH MECHANICAL CONTRACTOR PRIOR TO CONSTRUCTION.
4. ALL BUILDING STORM SERVICE CONNECTIONS WITH FIVE FEET OR LESS COVER ARE TO BE INSULATED FROM BUILDING TO POINT WHERE 6" FEET OF COVER IS ACHIEVED.
5. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
6. SAFETY NOTICE TO CONTRACTORS: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE ENGINEER OR THE DEVELOPER TO CONDUCT CONSTRUCTION REVIEW OF CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE CONSTRUCTION SITE.
7. ALL AREAS OUTSIDE THE PROPERTY BOUNDARIES THAT ARE DISTURBED BY UTILITY CONSTRUCTION SHALL BE RESTORED TO KIND, SODDED AREAS SHALL BE RESTORED WITH 6 INCHES OF TOPSOIL PLACED BENEATH THE SOO.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. TRAFFIC CONTROL DEVICES SHALL CONFORM TO APPROPRIATE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARDS.
9. ALL SOILS TESTING SHALL BE COMPLETED BY AN INDEPENDENT SOILS ENGINEER. EXCAVATION FOR THE PURPOSE OF REMOVING UNSTABLE OR UNSUITABLE SOILS SHALL BE COMPLETED AS REQUIRED BY THE SOILS ENGINEER. THE UTILITY BACKFILL CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE SOILS ENGINEER.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED SOILS TESTS AND SOIL INSPECTIONS WITH THE SOILS ENGINEER.
11. CONTRACTOR SHALL PROVIDE UTILITY AS-BUILTS TO THE CITY PRIOR TO CERTIFICATE OF OCCUPANCY.
12. COMBINATION FIRE AND DOMESTIC SERVICES MUST TERMINATE WITH A THREADED FLANGE OR AN M10 TO FLANGE ADAPTER.

Crossing #	Structure	Structure	Bottom	WM Top	San Pipe	San Pipe	Clearance	HD	Lowering
1	36	2	811.4	811.3	811.3	811.3	0.1		
2	36	2	811.4	811.3	811.3	811.3	0.1		
3	29	109	812.7	811.0	811.0	811.0	1.7		
4	107	106	813.2	811.3	811.3	811.3	1.9		
5	107	106	813.0	810.1	810.1	810.1	2.9		
6	3	2	808.4	808.4	808.4	808.4	1.5	Yes	
7	105	18	808.6	807.1	807.1	807.1	1.5	Yes	
8	Ex	104	804.8	803.3	803.3	803.3	1.5	Yes	
9	103	102	803.7	802.2	802.2	802.2	1.5	Yes	
10	Ex	102	803.9	802.4	802.4	802.4	1.5	Yes	
11	41	100	811.3	811.0	811.0	811.0	0.3	Yes	

ICE CASTLE

ARCHITECT
Alliance
400 Clifton Avenue
Minneapolis, MN 55403
612.874.1100

STRUCTURAL ENGINEER
Meyer Borgman Johnson
510 Marquette Ave. South, Suite 900
Minneapolis, MN 55402
612.338.0713

MECHANICAL/ELECTRICAL/PLUMBING ENGINEERS
DUNHAM
50 South Sixth Street, Suite 1100
Minneapolis, MN 55402
612.465.7550

LANDSCAPE DESIGN
SAMBATEK
12800 Whitewater Drive, Suite 300
Minnetonka, MN 55343
763.476.6010

CIVIL ENGINEER
EVS, Inc.
10025 Valley View Road, Suite 140
Eden Prairie, MN 55344
952.646.0236

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Engineer under the laws of the State of Minnesota.

FOR
BY: *Daniel Bower, PE*
NAME: Daniel Bower, PE
DATE: 2019.09.12
REG. NO.: 45018

ISSUED FOR	DATE
Construction Package No. 1	2019.09.13
Bulletin No. 1	2019.09.28
Bulletin No. 2	2019.10.11
Bulletin No. 3	2019.10.29
Bulletin No. 4	2019.11.01
Bulletin No. 5	2019.11.11
Bulletin No. 6	2020.02.24
Bulletin No. 7	2020.04.10
Bulletin No. 8	
Bulletin No. 9	
Bulletin No. 10	
Bulletin No. 11	
Bulletin No. 12	
Bulletin No. 13	
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Bulletin No. 100	

As built per plan unless

alliance

2401 E. 86TH ST

CYPRESS
1994

PL202400237
PL2024-237

NOTES

INSPECTIONS	
HYDROSTATIC	_____
CONDUCTIVITY	_____
BACTERIA TEST	_____
SAN.S. AIR TEST	_____
MANDREL TEST	_____
VISUALS	_____

LEGEND

	EXIST. CATCH BASIN
	FIRE HYDRANT
	DENOTES SURFACE DRAINAGE
	GATE VALVE
	PROPOSED SPO. ELEVATION
	EXIST. GAS LINE (UNDERGROUND)
	EXIST. TELEPHONE (UNDERGROUND)
	EXIST. ELECTRICITY (UNDERGROUND)
	EXIST. SANITARY SEWER
	EXIST. WATER LINE
	EXIST. STORM LINE
	EXIST. CONTOUR LINE
	PROPOSED CONTOUR LINE
	NEW MANHOLE
	NEW CATCH BASIN
	BLDG. INGRESS/EGRESS
	PROPOSED STORM SEWER
	NEW TRENCH DRAIN
	EXISTING LIGHT POLE

NOTES

1. ALL EXISTING INFORMATION FROM SURVEY BY DUNN, LAND SURVEYING INC., DATED APRIL 20, 1979
2. SURVEYED AND LOC. VERIFICATION BY SITE CONSULTANTS TO PROJECT NO. 58834
3. CONDUCTED SOIL POLLUTION BY ALL EXISTING CONDITIONS AND ANY DISCREPANCIES IN THE CONTRACTING ARCHITECT
4. EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. LOCATIONS OF UTILITIES ARE NOT TO BE A BASIS FOR ALL EXISTING ELECTRIC, TELEPHONE, GAS, WATER OR SEWER OR OTHER UTILITIES. NEW SEWER AND WATERMAIN CONTRACTOR UTILITY COMPANIES, OWNER AND CONTRACTOR SHALL CONDUCT AND SHALL CORRECT ANY EXISTING
5. SEE SHEET C-4 FOR TEMPORARY EROSION CONTROL REQUIREMENTS
6. CONTRACTOR TO PROTECT FROM DAMAGE ALL EXISTING UTILITIES, STRUCTURES & UTILITIES THAT WILL REMAIN
7. NEW WATERMAIN TO BE CLASS 34 AND HAVE 8" (MIN) COVER OVER TOP OF PIPE
8. ALL EXISTING UTILITIES TO REMAIN UNLESS NOTED OTHERWISE
9. 1500' OF EXISTING WATERMAIN TO BE COVERED 18" THICK MIN. CONCRETE. 1500' TOP OF PIPE TO BE TO FIELD VERIFICATION OF EXISTING PIPE. BEFORE REINSTALLATION
10. EXISTING WATER AND SEWER MAINS, NEW SEWER AND WATERMAIN CONTRACTOR TO COORDINATE AS REQUIRED
11. EXISTING MIN. TO BE REMOVED EXCEPT 4" OF SAGGARY SEWER TO BE REMOVED BY GENERAL CONTRACTOR TO BE DEEP AND CONFORM TO MINNESOTA PUMPING CODE
12. ALL WORK TO CONFORM WITH CITY OF BLOOMINGTON UTILITY DEPARTMENT'S REGULATIONS
13. EXISTING BUILDING FLOOR ELEVATIONS ARE ASSUMED. NEW FINISH FLOOR ELEVATIONS TO MATCH EXISTING SEE NOTE

**VAN SICKLE, ALLEN
& ASSOCIATES, INC.**
1964 DUXON MEMORIAL HIGHWAY
MAYFIELD, OHIO 44130
(216) 441-1800 (246) 612/642-1185
CONSULTING ENGINEERS - CIVIL - STRUCTURAL

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SEAL

SIGNATURE

DATE

DR. RCB	DATE 5/27/94
OSDN AJP	CHRG
OK AJP	FILE
OFF	NUMBER
	JOB NO. 94043
CNO FILE NO. 94043C3	

CRSS Northwest Division
Portland, Oregon

CYPRESS SEMICONDUCTOR
(MINNESOTA) INC.

DRAWING TITLE
UTILITY PLAN

100

CROSS DRAWING NUMBER

C3

UTILITY PLAN

0 40' 80' 120'

COPYRIGHT CRS SIRRINE ENGINEERS, INC.,
AS OF LAST DATE INDICATED