

LUTHER SEMINARY SOUTH CAMPUS OLSON CAMPUS CENTER + GULLIXSON HALL

SAINT PAUL, MN

CONSTRUCTION DOCUMENTS

GOPHER STATE ONE CALL (GSOC)
STATE LAW REQUIRES CONTRACTOR TO CONTACT AND PROVIDE NOTICE
TO THE NOTIFICATION CENTER BEFORE BEGINNING ANY EXCAVATION.
(REFER TO MINNESOTA STATE STATUTE CHAPTER 216D FOR DETAILS)
E-TICKET: WWW.GSOCSUBMIT.ORG
BY PHONE: EMERGENCY TICKETS: 866-640-3637
TWIN CITIES METRO: 651-454-0002
GREATER MN AREA: 800-252-1166
NATIONALLY: 811



2375 Como Avenue
St. Paul, MN 55108

Gensler

706 2nd Avenue South
Suite 1200
Minneapolis, MN 55402
United States

Tel 612.333.1113
Fax 612.333.1997



Dunham Engineering
50 South Sixth Street, Suite
1100
Minneapolis, MN 55402-1540
Tel 612.465.7550
Fax 612.465.7551



BKBM Engineers
6120 Earle Brown Dr, Suite
700
Minneapolis, MN 55430
Tel 763.843.0420



SRF Consulting Group
1 Carlson Parkway North,
Suite 150
Minneapolis, MN 55447-4443
Tel 763.249.6796



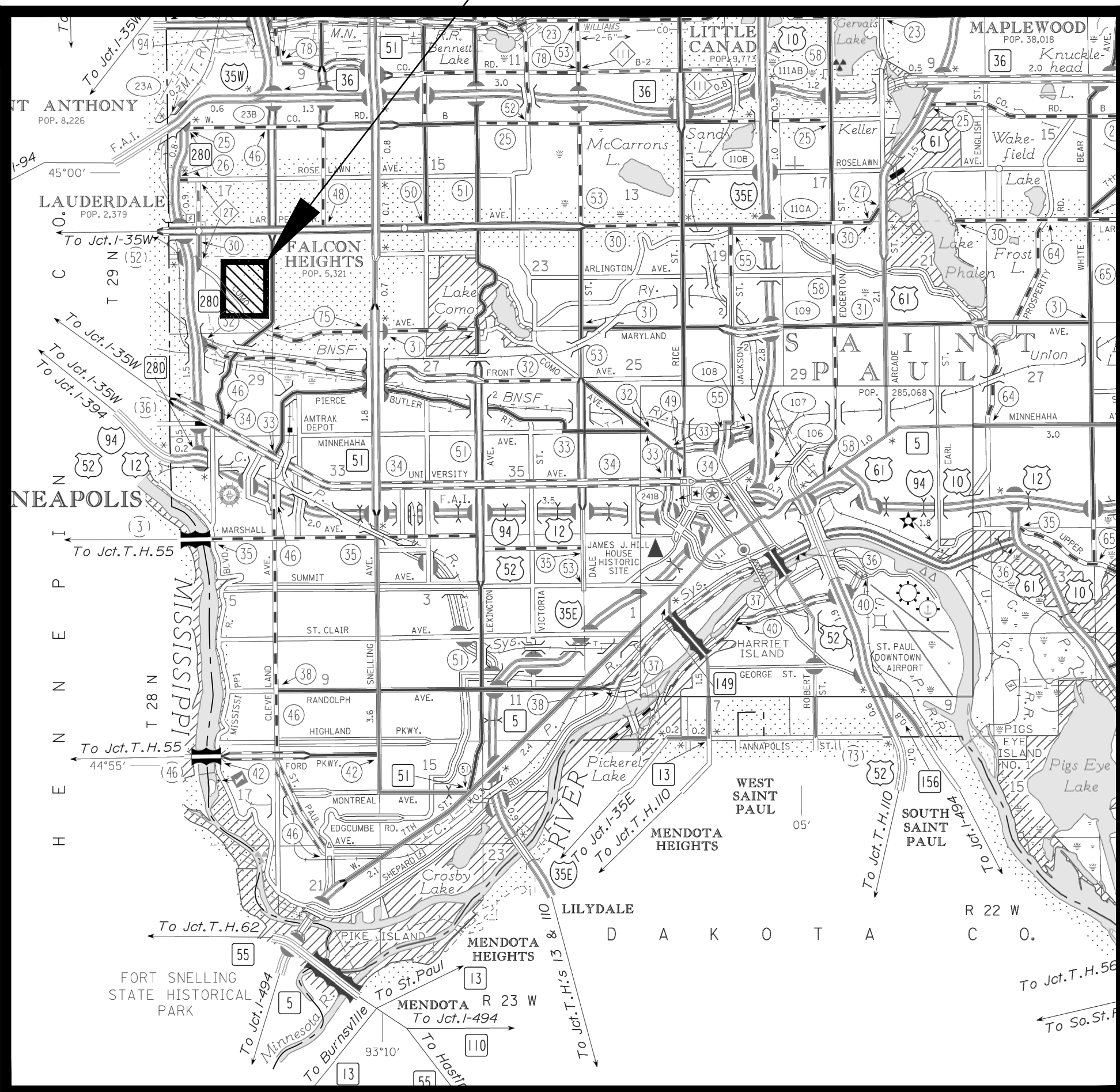
Ten x Ten Studio
575 SE 9th St, Suite 210
Minneapolis, MN 55414
Tel 612.440.8369

THIS DRAWING DEVELOPED BY:
SRF CONSULTING GROUP

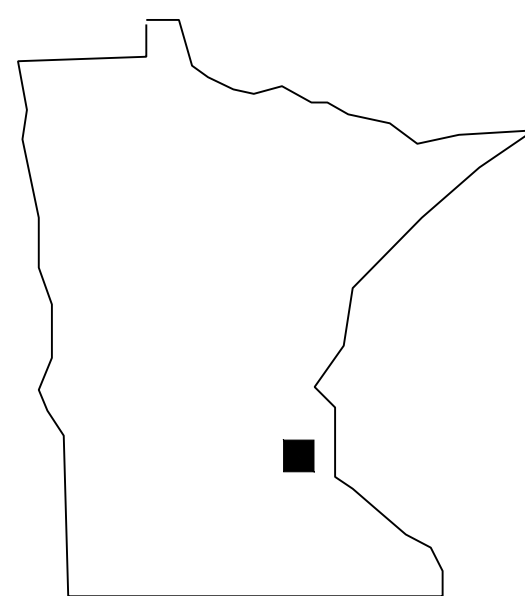
SHEET INDEX

SHEET NO.	DESCRIPTION
C0.0	TITLE SHEET
C0.1	OVERALL SITE PLAN
C1.0 - C1.1	EXISTING CONDITIONS
C2.0 - C2.1	REMOVALS PLAN
C3.0 - C3.1	SITE PLAN
C4.0 - C4.1	GRADING, DRAINAGE, AND EROSION CONTROL PLAN
C4.2	STORMWATER POLLUTION PREVENTION PLAN & NOTES
C5.0 - C5.1	UTILITY PLAN
C6.0 - C6.3	CIVIL DETAILS
C6.4 - C6.5	DRAINAGE DETAILS

PROJECT LOCATION

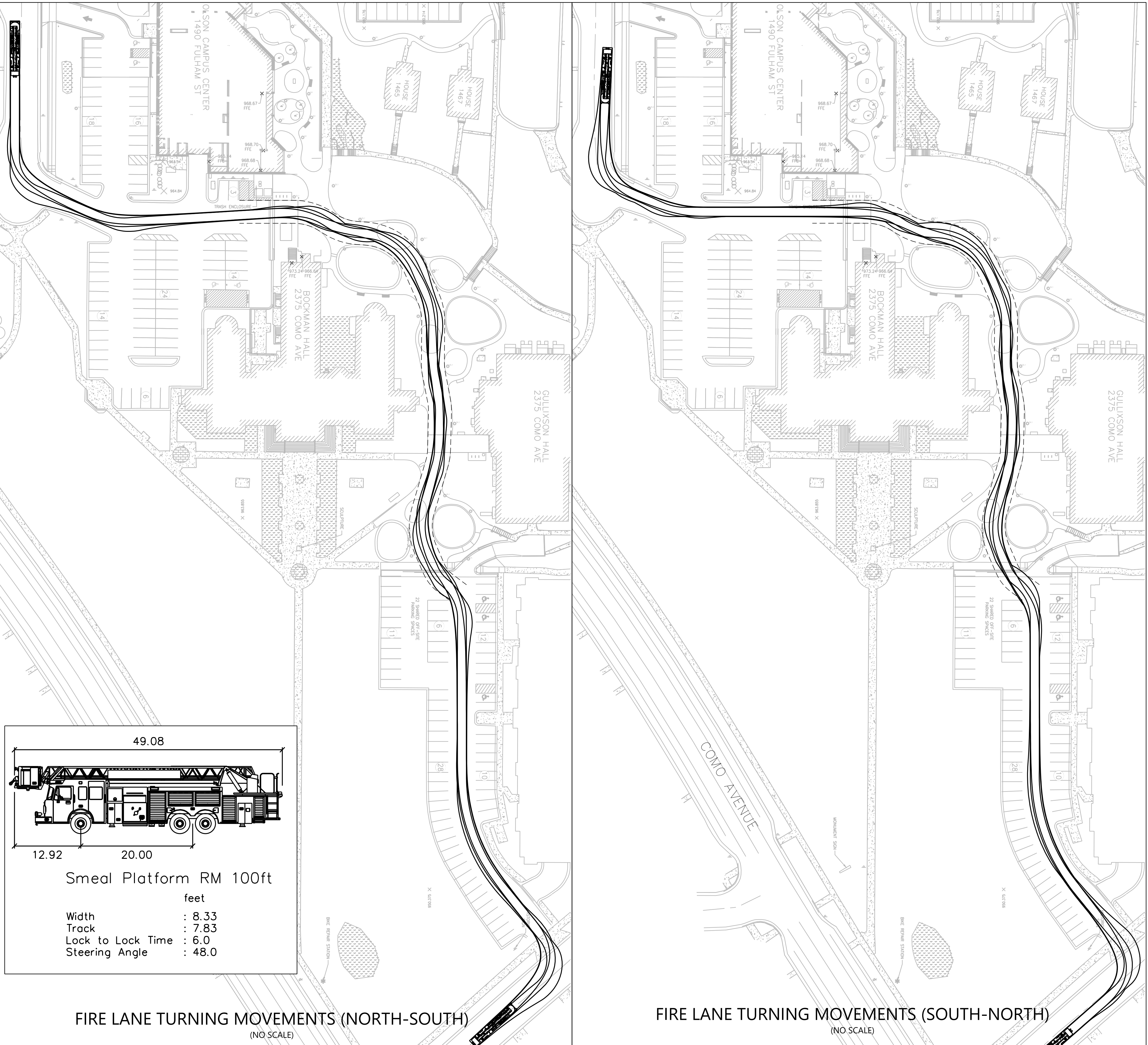


VICINITY MAP (NO SCALE)



NOTES

- THESE PLANS AND/OR SPECIFICATIONS WERE PREPARED FOR THIS PROJECT ONLY. ANY RE-USE OF THIS WORK FOR OTHER PROJECTS IS NOT AUTHORIZED BY THE DESIGNER.
- THE PERSON, AGENCY OR CORPORATION USING THESE PLANS AND/OR SPECIFICATIONS WILL BE HELD LIABLE FOR ANY DUPLICATION OF THIS WORK FOR OTHER PROJECTS.
- SEE EXISTING CONDITIONS FOR DESCRIPTION OF SUBSURFACE UTILITY INFORMATION.



Date	Description
12/07/18	SD Pricing
02/15/19	DD Pricing
02/22/19	Site Plan Review & Watershed Submittal
05/21/19	Design Team Review
06/10/19	Issue for Permit and Construction
09/23/19	Site Plan Review/Watershed Resubmittal

Seal / Signature
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 Professional Engineer under the laws of the State of Minnesota.

PRINT NAME: BRADY P. RUTMAN

SIGNATURE:
DATE: JUNE 10, 2019
LICENSE #: 56607

Project Name
LUTHER SEMINARY OLSON CENTER +
GULLIXSON HALL

Project Number
30.7644.000 (SRF #11404.00)

Scale

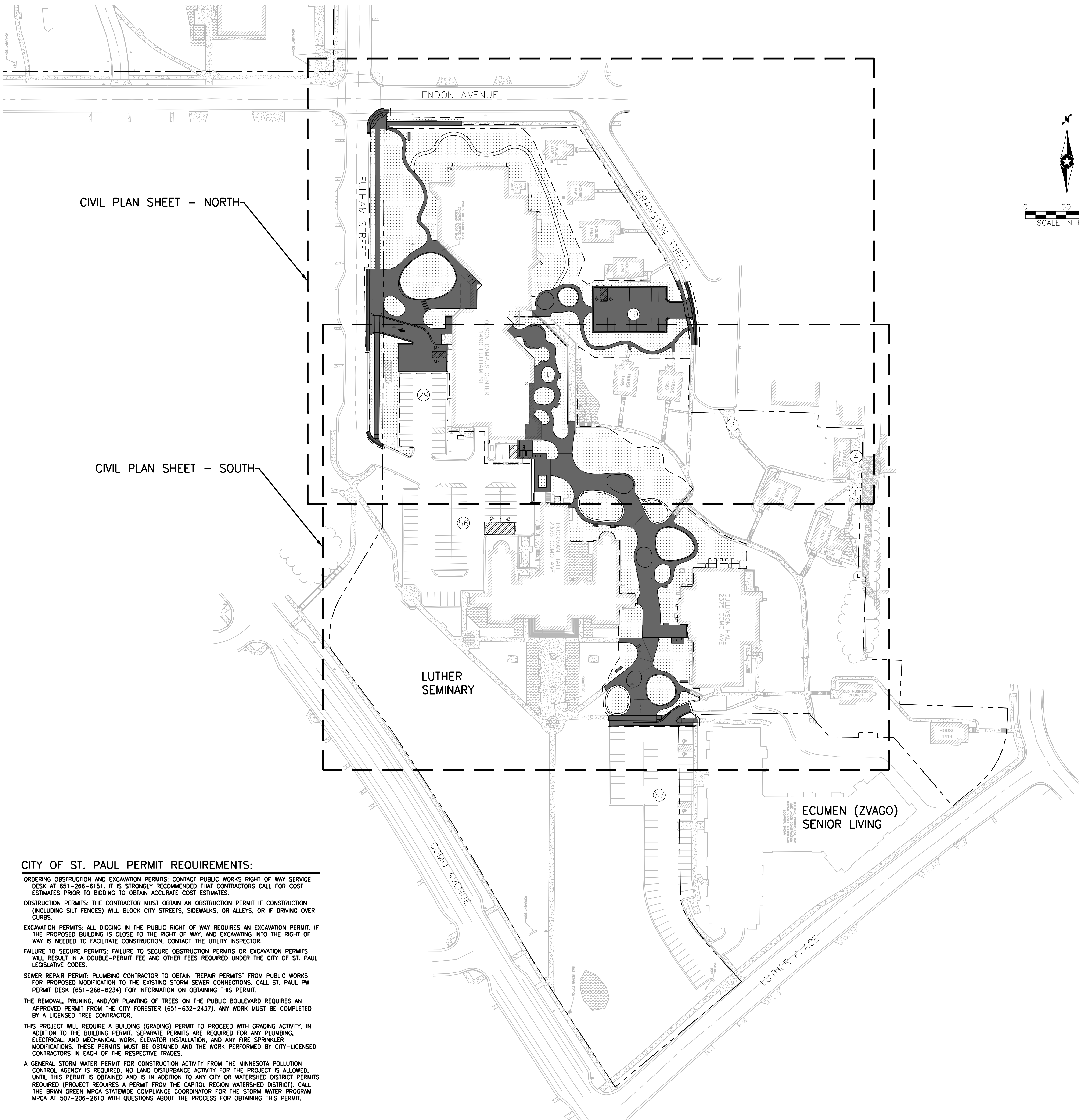
1" = 20'

Description

TITLE SHEET

C0.0

© 2018 Gensler



GOPHER STATE ONE CALL (GSOC)
STATE LAW REQUIRES CONTRACTOR TO CONTACT AND PROVIDE NOTICE TO THE NOTIFICATION CENTER BEFORE BEGINNING ANY EXCAVATION. (REFER TO MINNESOTA STATE STATUTE CHAPTER 216D FOR DETAILS)
E-TICKET: WWW.GSOCSUBMIT.ORG
BY PHONE: EMERGENCY TICKETS: 866-640-3637
TWIN CITIES METRO: 651-454-0002
GREATER MN AREA: 800-252-1166
NATIONALLY: 811

SITE LEGEND

- PROPERTY LINE
- EXISTING CONDITIONS
- PROPOSED PAVEMENT (ALL TYPES)
- TURF AND PLANTING BEDS (ALL TYPES)
- LIMITS OF DISTURBANCE
- PARKING SPACES PER LOT

OVERALL SITE AND PARKING SUMMARY (SOUTH CAMPUS)

- CAMPUS AREA**
- 10.72 ACRES (SOUTH CAMPUS)
 - 3.0± ACRES SITE PROJECT AREA (EXCLUDING BUILDINGS)
 - EXISTING ZONING = R3-ONE FAMILY (NORTH 1/3), T1-TRADITIONAL NEIGHBORHOOD (SOUTH 2/3)
 - CONDITIONAL USE PERMIT = AMENDED IN 2019
 - BUILDINGS = 10 TOTAL
 - 3 MAIN(OLSON, BOCKMAN, GULLIXSON)
 - 9 HOUSES (RESIDENTIAL)
 - 1 HISTORIC CHURCH (MUSKEGO)
- REQUIRED PARKING CATEGORIES (LUTHER SEMINARY LONG TERM PROJECTED DATA)**
- FULL-TIME STUDENTS LIVING OFF-CAMPUS = 1 SPACE PER EVERY 3 STUDENTS (163 STUDENTS)
 - STUDENTS LIVING ON-CAMPUS RESIDENTIAL HOUSES = 1.5 SPACES PER FAMILY DWELLING (9 SINGLE FAMILY HOUSES/FAMILIES OR 30 STUDENTS)
 - STUDENTS/GUESTS LIVING ON-CAMPUS RESIDENTIAL DORMITORY (BOCKMAN) = 1 SPACE PER EVERY 3 DORMITORY BEDS (50 BEDS)
 - STAFF = 1 SPACE PER EVERY 2 EMPLOYEES (110 STAFF)
 - SUNRISE BANK PARKING AGREEMENT = 7 SPACES
- REQUIRED PARKING SPACES**
- 51.33 SPACES = FULL TIME STUDENTS (154 / 3)
 - 13.50 SPACES = STUDENTS LIVING ON-CAMPUS RESIDENTIAL HOUSES (9 X 1.5)
 - 16.67 SPACES = STUDENTS/GUESTS LIVING ON-CAMPUS RESIDENTIAL DORMITORY-BOCKMAN (50 / 3)
 - 55.00 SPACES = STAFF (110 / 2)
 - 07.00 SPACES = SUNRISE BANK(7 PER AGREEMENT)
 - 143.50 SPACES TOTAL REQUIRED
- EXISTING PARKING PROVIDED**
- 188 SPACES (INCLUDING ECUMEN 22 SHARED PARKING)
- PARKING PROVIDED**
- 159 SPACES LUTHER SEMINARY PROPERTY
 - 22 SPACES ECUMEN SHARED PARKING
 - 181 SPACES TOTAL PROVIDED
- 2019 CONDITIONAL USE PERMIT PARKING PROVIDED**
- 155 SPACES LUTHER SEMINARY PROPERTY
 - 22 SPACES ECUMEN SHARED PARKING
 - 177 SPACES TOTAL PROVIDED (SUMMARY)
 - 183 SPACES TOTAL SHOWN (PER PLAN)
- BIKE PARKING**
- REQUIRED = 10 SPACES (1 PER 20 VEHICLE SPACES, FOR 181 SPACES)
 - PROVIDED = 22 SPACES (3 LOCATIONS, 11 LOOPS-DOUBLE SIDED)

CITY OF ST. PAUL NOTES:

INSPECTION CONTACT: THE DEVELOPER SHALL CONTACT THE RIGHT OF WAY INSPECTOR DICK ROHLAND, 651-485-1688 ONE WEEK PRIOR TO BEGINNING WORK TO DISCUSS TRAFFIC CONTROL, PEDESTRIAN SAFETY, AND COORDINATION OF ALL WORK IN THE PUBLIC RIGHT OF WAY. NOTE: IF A ONE WEEK NOTICE IS NOT PROVIDED TO THE CITY, ANY RESULTING DELAYS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

AS PART OF THE ROW PERMITTING PROCESS, TWO WEEKS BEFORE ANY WORK BEGINS THAT IMPACTS THE ROW IN ANY WAY THE DEVELOPER SHALL PROVIDE TO THE ROW INSPECTOR THE NAME AND CONTACT INFORMATION OF THE CONSTRUCTION PROJECT MANAGER OR CONSTRUCTION PROJECT SUPERINTENDENT. IF THIS INFORMATION IS NOT PROVIDED THERE MAY A DELAY IN OBTAINING PERMITS FOR THE WORK IN THE ROW. SAID DELAYS WILL BE THE SOLE RESPONSIBILITY OF THE DEVELOPER.

SAFE WORK SITE REQUIREMENTS: THE CONTRACTOR SHALL PROVIDE A CONTINUOUS, ACCESSIBLE AND SAFE PEDESTRIAN WALKWAY THAT MEETS ADA AND MN MUTCD STANDARDS IF WORKING IN A SIDEWALK AREA, AND TRAFFIC CONTROL PER MN MUTCD REQUIREMENTS FOR WORK IN THE PUBLIC RIGHT OF WAY.

SIGNING: SIGNS REGULATING PARKING AND/OR TRAFFIC ON PRIVATE PROPERTY SHALL BE INSTALLED BY THE PROPERTY OWNER OR CONTRACTOR OUTSIDE THE PUBIC RIGHT OF WAY (ROW). REMOVAL OF SIGNS WITHIN THE PUBLIC ROW SHALL BE COMPLETED BY THE CITY. NEW SIGNS OR THE REINSTALLATION OF EXISTING SIGNS, AS APPROVED BY PUBLIC WORKS TRAFFIC ENGINEERING, REGULATING PARKING AND/OR TRAFFIC IN THE PUBLIC ROW FOR THIS DEVELOPMENT SHALL BE INSTALLED BY THE CITY AT THE EXPENSE OF THE DEVELOPMENT. CONTACT CHRIS GULDEN OF PUBLIC WORKS 651-266-9778 TWO WEEKS IN ADVANCE OF NEEDED SIGN WORK.

CONSTRUCTION IN RIGHT OF WAY: ALL WORK ON CURBS, DRIVEWAYS, AND SIDEWALKS WITHIN THE PUBLIC RIGHT OF WAY MUST BE DONE TO CITY STANDARDS AND SPECIFICATIONS BY A CONTRACTOR LICENSED TO WORK IN THE CITY RIGHT OF WAY UNDER A PERMIT FROM PUBLIC WORKS SIDEWALK SECTION (651-266-6108). SIDEWALK GRADES MUST BE CARRIED ACROSS DRIVEWAYS.

RIGHT OF WAY RESTORATION: RESTORATION OF ASPHALT AND CONCRETE PAVEMENTS ARE PERFORMED BY THE PUBLIC WORKS STREET MAINTENANCE DIVISION. THE CONTRACTOR IS RESPONSIBLE FOR PAYMENT TO THE CITY FOR THE COST OF THESE RESTORATIONS. THE CONTRACTOR SHALL CONTACT PUBLIC WORKS STREET MAINTENANCE TO SET UP A WORK ORDER PRIOR TO BEGINNING ANY REMOVALS IN THE STREET AT 651-266-9700. PROCEDURES AND UNIT COSTS ARE FOUND IN STREET MAINTENANCE'S "GENERAL REQUIREMENTS - ALL RESTORATIONS" AND ARE AVAILABLE AT THE PERMIT OFFICE.

FIRE: CONTRACTOR TO MAINTAIN ACCESS TO THE FIRE DEPARTMENT CONNECTION FOR FIRE DEPARTMENT PERSONNEL AT ALL TIMES DURING THE CONSTRUCTION PERIOD.

CITY FORESTRY NOTES:

EXISTING STREET TREES TO BE PROTECTED AT ALL TIMES. TREES DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE RESTORED OR REPLACED TO THE SATISFACTION OF, AND AT NO COST TO, THE CITY AS DETERMINED BY THE FORESTRY MANAGER.

CONSTRUCTION SUPPLIES, MATERIALS, SPOILS, EQUIPMENT, AND VEHICLES SHALL NOT BE STORED OR OPERATED WITHIN THE DRIP LINE OF ANY PUBLIC STREET TREE OR ON TURF BOULEVARDS WITHOUT PRIOR WRITTEN APPROVAL FROM THE CITY FORESTER. IF THE BOULEVARD MUST BE USED FOR CONSTRUCTION ACTIVITIES, SITE ACCESS ROUTES, MATERIAL STORAGE, OR OTHER RELATED ACTIVITIES, PROTECTIVE MEASURES APPROVED BY THE CITY FORESTER SHALL BE TAKEN TO REDUCE SOIL COMPACTION AND PROTECT TREE(S) FROM DAMAGE.

STREET TREES SHALL BE PROTECTED BY ESTABLISHING A TREE PROTECTION ZONE USING 4' TALL FENCING INSTALLED AT THE DRIP LINE OF THE TREE. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO THE START OF ANY SITE WORK AND MAINTAINED FOR THE DURATION OF THE PROJECT. PROPOSED WORK WITHIN, OR CHANGES TO THE LOCATION OF TREE PROTECTION FENCING SHALL BE REVIEWED BY THE CITY FORESTER PRIOR TO THE ALTERATION.

CONTRACTOR SHALL CONTACT THE CITY FORESTER (651-632-2437), PRIOR TO DEMOLITION OR OTHER LAND DISTURBANCE ASSOCIATED WITH SITE CONSTRUCTION, TO VERIFY TREE PROTECTION MEASURES.

BOULEVARD RESTORATION IS TO INCLUDE THE FOLLOWING: 1) WHERE DRIVEWAYS, SIDEWALKS, OR OTHER SURFACE PAVING ARE REMOVED ALL CONCRETE, ASPHALT, AND BASE MATERIALS SHALL BE REMOVED; 2) BOULEVARD SOILS ARE TO BE PROTECTED DURING CONSTRUCTION. SOIL COMPACTION DUE TO CONSTRUCTION ACTIVITIES SHALL BE MITIGATED AND SOILS LOOSENED PRIOR TO FINAL GRADING; 3) BOULEVARDS SHALL BE RESTORED WITH A MINIMUM OF 6" OF TOPSOIL.

CITY OF ST. PAUL PERMIT REQUIREMENTS:

ORDERING OBSTRUCTION AND EXCAVATION PERMITS: CONTACT PUBLIC WORKS RIGHT OF WAY SERVICE DESK AT 651-266-6151. IT IS STRONGLY RECOMMENDED THAT CONTRACTORS CALL FOR COST ESTIMATES PRIOR TO BIDDING TO OBTAIN ACCURATE COST ESTIMATES.

OBSTRUCTION PERMITS: THE CONTRACTOR MUST OBTAIN AN OBSTRUCTION PERMIT IF CONSTRUCTION (INCLUDING SILT FENCES) WILL BLOCK CITY STREETS, SIDEWALKS, OR ALLEYS, OR IF DRIVING OVER CURBS.

EXCAVATION PERMITS: ALL DIGGING IN THE PUBLIC RIGHT OF WAY REQUIRES AN EXCAVATION PERMIT. IF THE PROPOSED BUILDING IS CLOSE TO THE RIGHT OF WAY, AND EXCAVATING INTO THE RIGHT OF WAY IS NEEDED TO FACILITATE CONSTRUCTION, CONTACT THE UTILITY INSPECTOR.

FAILURE TO SECURE PERMITS: FAILURE TO SECURE OBSTRUCTION PERMITS OR EXCAVATION PERMITS WILL RESULT IN A DOUBLE-PERMIT FEE AND OTHER FEES REQUIRED UNDER THE CITY OF ST. PAUL LEGISLATIVE CODES.

SEWER REPAIR PERMIT: PLUMBING CONTRACTOR TO OBTAIN "REPAIR PERMITS" FROM PUBLIC WORKS FOR PROPOSED MODIFICATION TO THE EXISTING STORM SEWER CONNECTIONS. CALL ST. PAUL PW PERMIT DESK (651-266-6234) FOR INFORMATION ON OBTAINING THIS PERMIT.

THE REMOVAL, PRUNING, AND/OR PLANTING OF TREES ON THE PUBLIC BOULEVARD REQUIRES AN APPROVED PERMIT FROM THE CITY FORESTER (651-632-2437). ANY WORK MUST BE COMPLETED BY A LICENSED TREE CONTRACTOR.

THIS PROJECT WILL REQUIRE A BUILDING (GRADING) PERMIT TO PROCEED WITH GRADING ACTIVITY. IN ADDITION TO THE BUILDING PERMIT, SEPARATE PERMITS ARE REQUIRED FOR ANY PLUMBING, ELECTRICAL, AND MECHANICAL WORK, ELEVATOR INSTALLATION, AND ANY FIRE SPRINKLER MODIFICATIONS. THESE PERMITS MUST BE OBTAINED AND THE WORK PERFORMED BY CITY-LICENSED CONTRACTORS IN EACH OF THE RESPECTIVE TRADES.

A GENERAL STORM WATER PERMIT FOR CONSTRUCTION ACTIVITY FROM THE MINNESOTA POLLUTION CONTROL AGENCY IS REQUIRED, NO LAND DISTURBANCE ACTIVITY FOR THE PROJECT IS ALLOWED, UNTIL THIS PERMIT IS OBTAINED AND IS IN ADDITION TO ANY CITY OR WATERSHED DISTRICT PERMITS REQUIRED (PROJECT REQUIRES A PERMIT FROM THE CAPITOL REGION WATERSHED DISTRICT). CALL THE BRIAN GREEN MPCA STATEWIDE COMPLIANCE COORDINATOR FOR THE STORM WATER PROGRAM MPCA AT 507-206-2610 WITH QUESTIONS ABOUT THE PROCESS FOR OBTAINING THIS PERMIT.

LUTHER SEMINARY

2375 Como Avenue
St. Paul, MN 55108

Gensler

706 2nd Avenue South
Suite 1200
Minneapolis, MN 55402
United States

Tel 612.333.1113
Fax 612.333.1997

DUNHAM
Dunham Engineering
50 South Sixth Street, Suite 1100
Minneapolis, MN 55402-1540
Tel 612.465.7550
Fax 612.465.7551

BKBM ENGINEERS
BKBM Engineers
6120 Earle Brown Dr, Suite 700
Minneapolis, MN 55430
Tel 763.843.0420

SRF
SRF Consulting Group
1 Carlson Parkway North, Suite 150
Minneapolis, MN 55447-4443
Tel 763.249.6796

TEN x TEN
Ten x Ten Studio
575 SE 9th St, Suite 210
Minneapolis, MN 55414
Tel 612.440.8369

THIS DRAWING DEVELOPED BY:
SRF CONSULTING GROUP

△	Date	Description
1	12/07/18	SD Pricing
2	02/15/19	DD Pricing
3	02/22/19	Site Plan Review & Watershed Submittal
4	05/21/19	Design Team Review
5	06/10/19	Issue for Permit and Construction
6	09/23/19	Site Plan Review/Watershed Resubmittal

Seal / Signature

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 Professional Engineer under the laws of the State of Minnesota.

PRINT NAME: BRADY P. RUTMAN

SIGNATURE:

DATE: JUNE 10, 2019

LICENSE #: 56607

Project Name

LUTHER SEMINARY OLSON CENTER + GULLIXSON HALL

Project Number

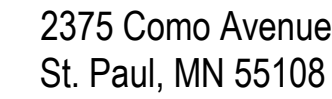
30.7644.000 (SRF #11404.00)

Scale

1" = 20'

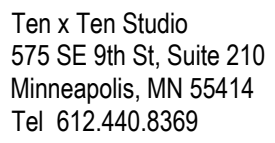
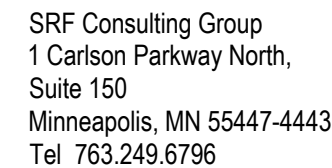
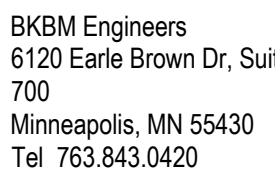
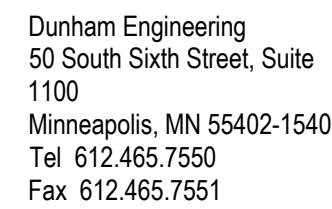
Description

OVERALL SITE PLAN



706 2nd Avenue South
Suite 1200
Minneapolis, MN 55402
United States


Tel 612.333.1113
Fax 612.333.1997



THIS DRAWING DEVELOPED BY:
SRF CONSULTING GROUP

Seal / Signature

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 Professional Engineer under the laws of the State of Minnesota.

PRINT NAME: BRADY P. RUTMAN
SIGNATURE: 
DATE: JUNE 10, 2019
LICENSE #: 56607

Project Name
LUTHER SEMINARY OLSON CENTER + GULLIXSON HALL

Project Number
30.7644.000 (SRF #11404.00)

Scale

$$1'' = 20$$

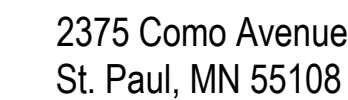
Description
EXISTING CONDITIONS - NORTH

C1.0

© 2018 Gensle

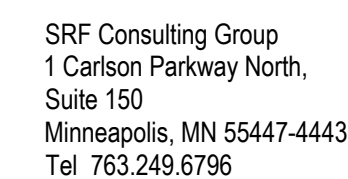
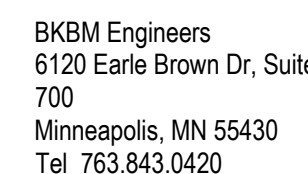
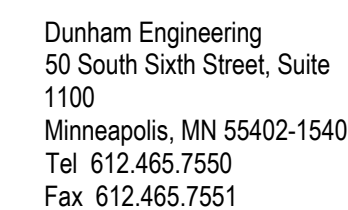
MATCH LINE - SEE SHEET #C1.1

MATCH LINE - SEE SHEET #C1.




706 2nd Avenue South
Suite 1200
Minneapolis, MN 55402
United States

Tel 612.333.1113
Fax 612.333.1997



THIS DRAWING DEVELOPED BY:
SRF CONSULTING GROUP

	Date	Description
1	12/07/18	SD Pricing
2	02/15/19	DD Pricing
3	02/22/19	Site Plan Review & Watershed Submittal
4	05/21/19	Design Team Review
5	06/10/19	Issue for Permit and Construction
6	09/23/19	Site Plan Review/Watershed Resubmittal

Seal / Signature

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 Professional Engineer under the laws of the State of Minnesota.

PRINT NAME: BRADY P. RUTMAN

SIGNATURE

DATE _____

LICENSE #:

Project Name

LUTHER SEMINARY OLSON CENTER +
GULLIXSON HALL

Project Number

30.7644.000 (SRF #11404.00)

Scale

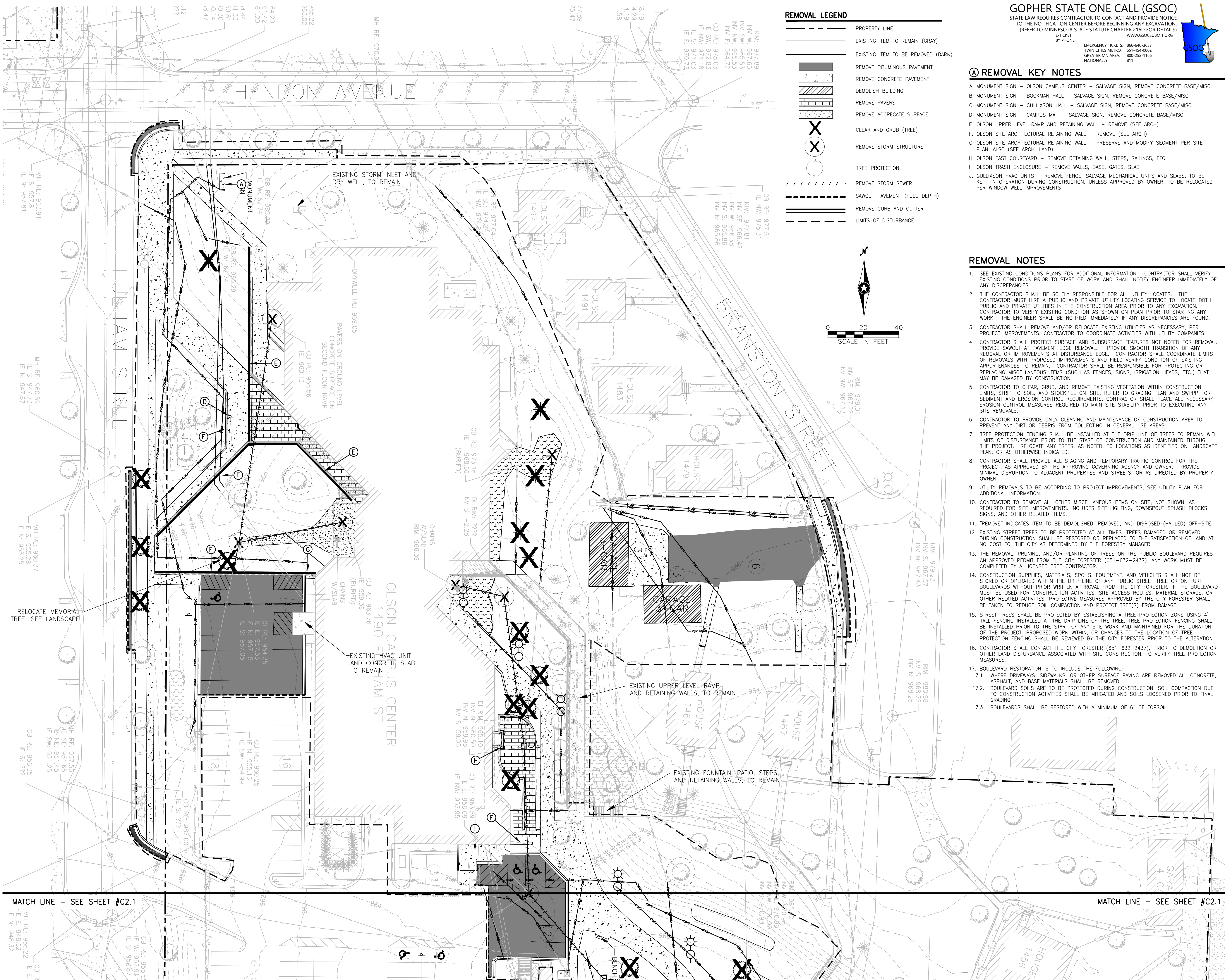
 $1'' = 20$

	Description
1	1.0000
2	1.0000
3	1.0000
4	1.0000
5	1.0000
6	1.0000
7	1.0000
8	1.0000
9	1.0000
10	1.0000
11	1.0000
12	1.0000
13	1.0000
14	1.0000
15	1.0000
16	1.0000
17	1.0000
18	1.0000
19	1.0000
20	1.0000
21	1.0000
22	1.0000
23	1.0000
24	1.0000
25	1.0000
26	1.0000
27	1.0000
28	1.0000
29	1.0000
30	1.0000
31	1.0000
32	1.0000
33	1.0000
34	1.0000
35	1.0000
36	1.0000
37	1.0000
38	1.0000
39	1.0000
40	1.0000
41	1.0000
42	1.0000
43	1.0000
44	1.0000
45	1.0000
46	1.0000
47	1.0000
48	1.0000
49	1.0000
50	1.0000
51	1.0000
52	1.0000
53	1.0000
54	1.0000
55	1.0000
56	1.0000
57	1.0000
58	1.0000
59	1.0000
60	1.0000
61	1.0000
62	1.0000
63	1.0000
64	1.0000
65	1.0000
66	1.0000
67	1.0000
68	1.0000
69	1.0000
70	1.0000
71	1.0000
72	1.0000
73	1.0000
74	1.0000
75	1.0000
76	1.0000
77	1.0000
78	1.0000
79	1.0000
80	1.0000
81	1.0000
82	1.0000
83	1.0000
84	1.0000
85	1.0000
86	1.0000
87	1.0000
88	1.0000
89	1.0000
90	1.0000
91	1.0000
92	1.0000
93	1.0000
94	1.0000
95	1.0000
96	1.0000
97	1.0000
98	1.0000
99	1.0000
100	1.0000

EXISTING CONDITIONS - SOUTH

© 2018 Gensle





GOPHER STATE ONE CALL (GSOC)
STATE LAW REQUIRES CONTRACTOR TO CONTACT AND PROVIDE NOTICE TO THE NOTIFICATION CENTER BEFORE BEGINNING ANY EXCAVATION. (REFER TO MINNESOTA STATE STATUTE CHAPTER 216D FOR DETAILS)
E-TEXT: WWW.GSOC.MN.GOV
BY PHONE: EMERGENCY TICKETS: 866-640-3637
TWIN CITIES METRO: 651-454-0002
GREATER MN AREA: 800-252-1166
NATIONALLY: 811



LUTHER SEMINARY
2375 Como Avenue
St. Paul, MN 55108

Gensler
706 2nd Avenue South
Suite 1200
Minneapolis, MN 55402
United States
Tel 612.333.1113
Fax 612.333.1997

DUNHAM
Durham Engineering
50 South Sixth Street, Suite 1100
Minneapolis, MN 55402-1540
Tel 612.465.7550
Fax 612.465.7551

SRF
SRF Consulting Group
1 Carlson Parkway North, Suite 150
Minneapolis, MN 55447-4443
Tel 763.249.6796

THIS DRAWING DEVELOPED BY:
SRF CONSULTING GROUP

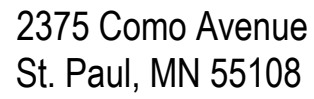
△	Date	Description
1	12/07/18	SD Pricing
2	02/15/19	DD Pricing
3	02/22/19	Site Plan Review & Watershed Submittal
4	05/21/19	Design Team Review
5	06/10/19	Issue for Permit and Construction
6	09/23/19	Site Plan Review/Watershed Resubmittal

Seal / Signature
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 Professional Engineer under the laws of the State of Minnesota.
PRINT NAME: BRADY P. RUTMAN
SIGNATURE: [Signature]
DATE: JUNE 10, 2019
LICENSE #: 56607

Project Name
LUTHER SEMINARY OLSON CENTER + GULLIXSON HALL
Project Number
30.7644.000 (SRF #11404.00)

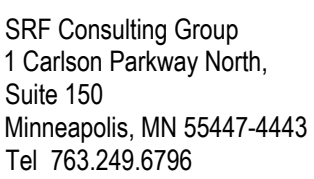
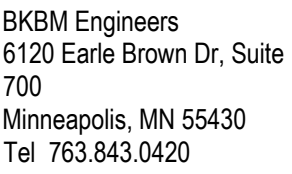
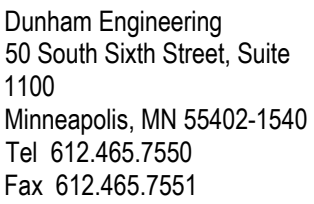
Scale
1" = 20'
Description
REMOVALS PLAN - NORTH

C2.0




706 2nd Avenue South
Suite 1200
Minneapolis, MN 55402
United States

Tel 612.333.1113
Fax 612.333.1997



THIS DRAWING DEVELOPED BY:
SRF CONSULTING GROUP

	Date	Description
1	12/07/18	SD Pricing
2	02/15/19	DD Pricing
3	02/22/19	Site Plan Review & Watershed Submittal
4	05/21/19	Design Team Review
5	06/10/19	Issue for Permit and Construction
6	09/23/19	Site Plan Review/Watershed Resubmittal

Seal / Signature

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 Professional Engineer under the laws of the State of Minnesota.

PRINT NAME: BRADY P. RUTMAN

SIGNATURE:

DATE: JUNE 10, 2019

LICENSE #:

Project Name

Project Name
LUTHER SEMINARY OLSON CENTER +
GULLIXSON HALL

Project Number
30.7644.000 (SRF #11404.00)

Scale

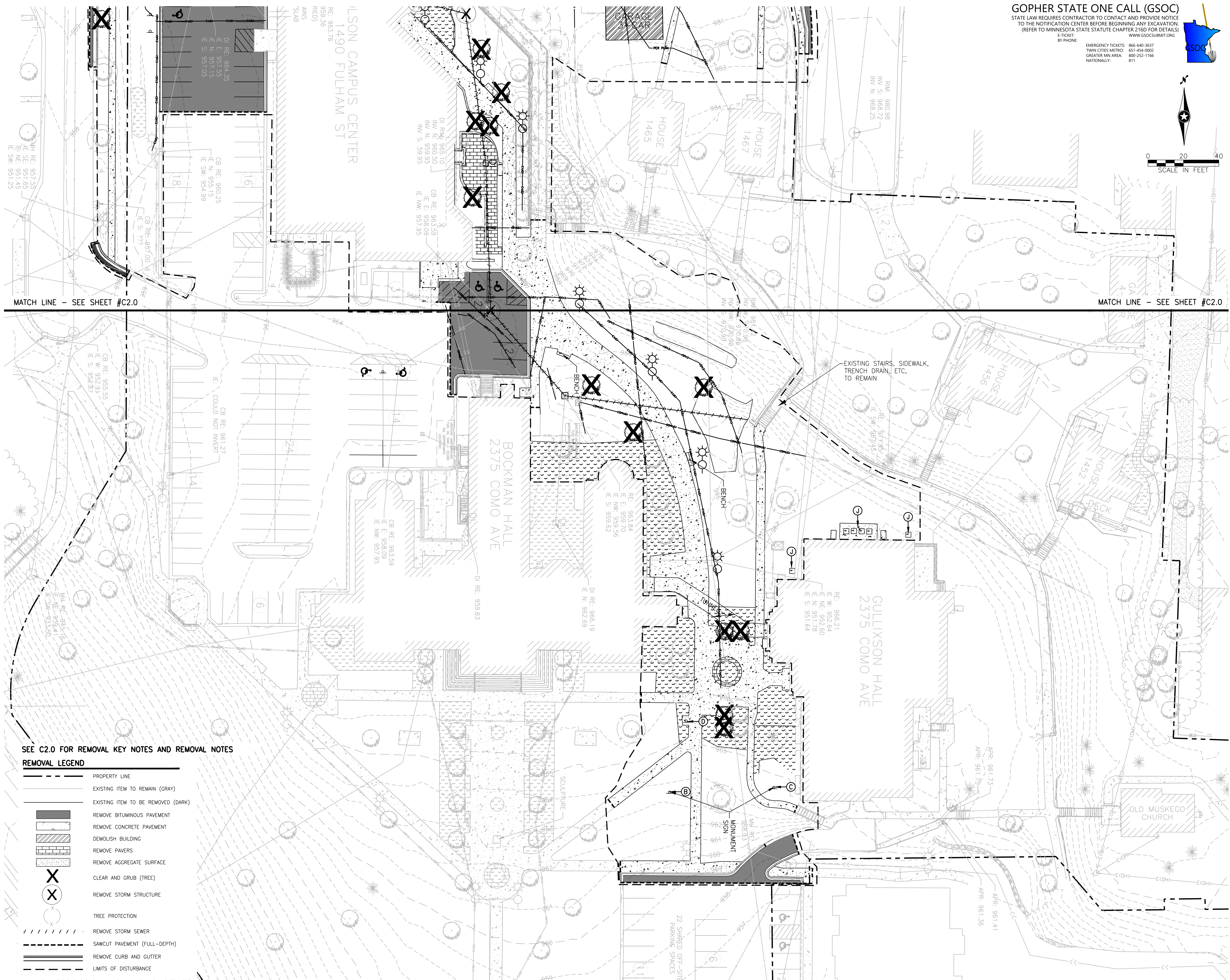
$$1'' = 20'$$

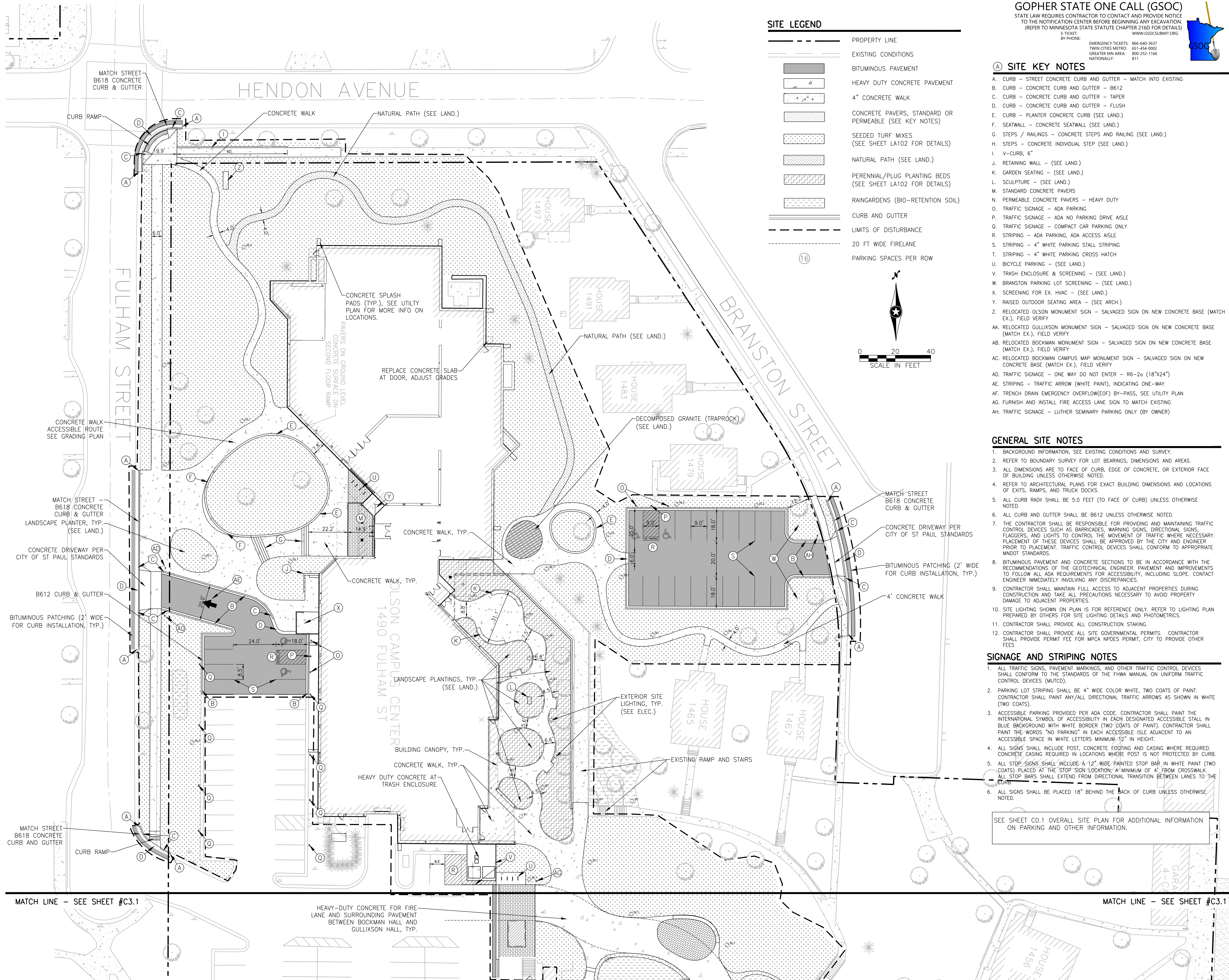
	Description
1	1.0000
2	1.0000
3	1.0000
4	1.0000
5	1.0000
6	1.0000
7	1.0000
8	1.0000
9	1.0000
10	1.0000
11	1.0000
12	1.0000
13	1.0000
14	1.0000
15	1.0000
16	1.0000
17	1.0000
18	1.0000
19	1.0000
20	1.0000
21	1.0000
22	1.0000
23	1.0000
24	1.0000
25	1.0000
26	1.0000
27	1.0000
28	1.0000
29	1.0000
30	1.0000
31	1.0000
32	1.0000
33	1.0000
34	1.0000
35	1.0000
36	1.0000
37	1.0000
38	1.0000
39	1.0000
40	1.0000
41	1.0000
42	1.0000
43	1.0000
44	1.0000
45	1.0000
46	1.0000
47	1.0000
48	1.0000
49	1.0000
50	1.0000
51	1.0000
52	1.0000
53	1.0000
54	1.0000
55	1.0000
56	1.0000
57	1.0000
58	1.0000
59	1.0000
60	1.0000
61	1.0000
62	1.0000
63	1.0000
64	1.0000
65	1.0000
66	1.0000
67	1.0000
68	1.0000
69	1.0000
70	1.0000
71	1.0000
72	1.0000
73	1.0000
74	1.0000
75	1.0000
76	1.0000
77	1.0000
78	1.0000
79	1.0000
80	1.0000
81	1.0000
82	1.0000
83	1.0000
84	1.0000
85	1.0000
86	1.0000
87	1.0000
88	1.0000
89	1.0000
90	1.0000
91	1.0000
92	1.0000
93	1.0000
94	1.0000
95	1.0000
96	1.0000
97	1.0000
98	1.0000
99	1.0000
100	1.0000

REMOVALS PLAN - SOUTH

C2.1

© 2018 Gensler





SITE LEGEND

- PROPERTY LINE
- EXISTING CONDITIONS
- BITUMINOUS PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- 4" CONCRETE WALK
- CONCRETE PAVERS, STANDARD OR PERMEABLE (SEE KEY NOTES)
- SEEDDED TURF MIXES (SEE SHEET LA102 FOR DETAILS)
- NATURAL PATH (SEE LAND.)
- PERENNIAL/PLUG PLANTING BEDS (SEE SHEET LA102 FOR DETAILS)
- RAINGARDENS (BIO-RETENTION SOIL)
- CURB AND GUTTER
- LIMITS OF DISTURBANCE
- 20 FT WIDE FIRELANE
- PARKING SPACES PER ROW

GOPHER STATE ONE CALL (GSOC)

STATE LAW REQUIRES CONTRACTOR TO CONTACT AND PROVIDE NOTICE TO THE NOTIFICATION CENTER BEFORE BEGINNING ANY EXCAVATION. (REFER TO MINNESOTA STATE STATUTE CHAPTER 216D FOR DETAILS)

EMERGENCY TICKETS: 866-640-3637
TWIN CITIES METRO: 651-454-0002
GREATER MN AREA: 800-252-1166
NATIONALLY: 811



SITE KEY NOTES

- A. CURB - STREET CONCRETE CURB AND GUTTER - MATCH INTO EXISTING
- B. CURB - CONCRETE CURB AND GUTTER - B612
- C. CURB - CONCRETE CURB AND GUTTER - TAPER
- D. CURB - CONCRETE CURB AND GUTTER - FLUSH
- E. CURB - PLANTER CONCRETE CURB (SEE LAND.)
- F. SEATWALL - CONCRETE SEATWALL (SEE LAND.)
- G. STEPS / RAILINGS - CONCRETE STEPS AND RAILING (SEE LAND.)
- H. STEPS - CONCRETE INDIVIDUAL STEP (SEE LAND.)
- I. V-CURB, 6"
- J. RETAINING WALL - (SEE LAND.)
- K. GARDEN SEATING - (SEE LAND.)
- L. SCULPTURE - (SEE LAND.)
- M. STANDARD CONCRETE PAVERS
- N. PERMEABLE CONCRETE PAVERS - HEAVY DUTY
- O. TRAFFIC SIGNAGE - ADA PARKING
- P. TRAFFIC SIGNAGE - ADA NO PARKING DRIVE AISLE
- Q. TRAFFIC SIGNAGE - COMPACT CAR PARKING ONLY
- R. STRIPING - ADA PARKING, ADA ACCESS AISLE
- S. STRIPING - 4" WHITE PARKING STALL STRIPING
- T. STRIPING - 4" WHITE PARKING CROSS HATCH
- U. BICYCLE PARKING - (SEE LAND.)
- V. TRASH ENCLOSURE & SCREENING - (SEE LAND.)
- W. BRANSTON PARKING LOT SCREENING - (SEE LAND.)
- X. SCREENING FOR EX. HVAC - (SEE LAND.)
- Y. RAISED OUTDOOR SEATING AREA - (SEE ARCH.)
- Z. RELOCATED OLSON MONUMENT SIGN - SALVAGED SIGN ON NEW CONCRETE BASE (MATCH EX.), FIELD VERIFY
- AA. RELOCATED GULLIXSON MONUMENT SIGN - SALVAGED SIGN ON NEW CONCRETE BASE (MATCH EX.), FIELD VERIFY
- AB. RELOCATED BOCKMAN MONUMENT SIGN - SALVAGED SIGN ON NEW CONCRETE BASE (MATCH EX.), FIELD VERIFY
- AC. RELOCATED BOCKMAN CAMPUS MAP MONUMENT SIGN - SALVAGED SIGN ON NEW CONCRETE BASE (MATCH EX.), FIELD VERIFY
- AD. TRAFFIC SIGNAGE - ONE WAY DO NOT ENTER - R6-2a (18"x24")
- AE. STRIPING - TRAFFIC ARROW (WHITE PAINT), INDICATING ONE-WAY
- AF. TRENCH DRAIN EMERGENCY OVERFLOW(EOF) BY-PASS, SEE UTILITY PLAN
- AG. FURNISH AND INSTALL FIRE ACCESS LANE SIGN TO MATCH EXISTING
- AH. TRAFFIC SIGNAGE - LUTHER SEMINARY PARKING ONLY (BY OWNER)

GENERAL SITE NOTES

- 1. BACKGROUND INFORMATION, SEE EXISTING CONDITIONS AND SURVEY.
- 2. REFER TO BOUNDARY SURVEY FOR LOT BEARINGS, DIMENSIONS AND AREAS.
- 3. ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF CONCRETE, OR EXTERIOR FACE OF BUILDING UNLESS OTHERWISE NOTED.
- 4. REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS AND LOCATIONS OF EXITS, RAMPS, AND TRUCK DOCKS.
- 5. ALL CURB RADI SHALL BE 5.0 FEET (TO FACE OF CURB) UNLESS OTHERWISE NOTED.
- 6. ALL CURB AND GUTTER SHALL BE B612 UNLESS OTHERWISE NOTED.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGGERS, AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. PLACEMENT OF THESE DEVICES SHALL BE APPROVED BY THE CITY AND ENGINEER PRIOR TO PLACEMENT. TRAFFIC CONTROL DEVICES SHALL CONFORM TO APPROPRIATE MNDOT STANDARDS.
- 8. BITUMINOUS PAVEMENT AND CONCRETE SECTIONS TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. PAVEMENT AND IMPROVEMENTS TO FOLLOW ALL ADA REQUIREMENTS FOR ACCESSIBILITY, INCLUDING SLOPE. CONTACT ENGINEER IMMEDIATELY INVOLVING ANY DISCREPANCIES.
- 9. CONTRACTOR SHALL MAINTAIN FULL ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES.
- 10. SITE LIGHTING SHOWN ON PLAN IS FOR REFERENCE ONLY. REFER TO LIGHTING PLAN PREPARED BY OTHERS FOR SITE LIGHTING DETAILS AND PHOTOMETRICS.
- 11. CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION STAKING.
- 12. CONTRACTOR SHALL PROVIDE ALL SITE GOVERNMENTAL PERMITS. CONTRACTOR SHALL PROVIDE PERMIT FEE FOR MPCA NPDES PERMIT, CITY TO PROVIDE OTHER FEES.

SIGNAGE AND STRIPING NOTES

- 1. ALL TRAFFIC SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE STANDARDS OF THE FHWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 2. PARKING LOT STRIPING SHALL BE 4" WIDE COLOR WHITE, TWO COATS OF PAINT. CONTRACTOR SHALL PAINT ANY/ALL DIRECTIONAL TRAFFIC ARROWS AS SHOWN IN WHITE (TWO COATS).
- 3. ACCESSIBLE PARKING PROVIDED PER ADA CODE. CONTRACTOR SHALL PAINT THE INTERNATIONAL SYMBOL OF ACCESSIBILITY IN EACH DESIGNATED ACCESSIBLE STALL IN BLUE BACKGROUND WITH WHITE BORDER (TWO COATS OF PAINT). CONTRACTOR SHALL PAINT THE WORDS "NO PARKING" IN EACH ACCESSIBLE ISLE ADJACENT TO AN ACCESSIBLE SPACE IN WHITE LETTERS MINIMUM 12" IN HEIGHT.
- 4. ALL SIGNS SHALL INCLUDE POST, CONCRETE FOOTING AND CASING WHERE REQUIRED. CONCRETE CASING REQUIRED IN LOCATIONS WHERE POST IS NOT PROTECTED BY CURB.
- 5. ALL STOP SIGNS SHALL INCLUDE A 12" WIDE PAINTED STOP BAR IN WHITE PAINT (TWO COATS) PLACED AT THE STOP SIGN LOCATION, A MINIMUM OF 4' FROM CROSSWALK. ALL STOP BARS SHALL EXTEND FROM DIRECTIONAL TRANSITION BETWEEN LANES TO THE CURB.
- 6. ALL SIGNS SHALL BE PLACED 18" BEHIND THE BACK OF CURB UNLESS OTHERWISE NOTED.

SEE SHEET C0.1 OVERALL SITE PLAN FOR ADDITIONAL INFORMATION ON PARKING AND OTHER INFORMATION.



2375 Como Avenue
St. Paul, MN 55108

Gensler

706 2nd Avenue South
Suite 1200
Minneapolis, MN 55402
United States

Tel 612.333.1113
Fax 612.333.1997



Dunham Engineering
50 South Sixth Street, Suite
1100
Minneapolis, MN 55402-1540
Tel 612.465.7550
Fax 612.465.7551



BKBM Engineers
6120 Earle Brown Dr, Suite
700
Minneapolis, MN 55430
Tel 763.843.0420
Tel 763.843.0420



SRF Consulting Group
1 Carlson Parkway North,
Suite 150
Minneapolis, MN 55447-4443
Tel 763.249.6796



Ten x Ten Studio
575 SE 9th St, Suite 210
Minneapolis, MN 55414
Tel 612.440.8369

THIS DRAWING DEVELOPED BY:
SRF CONSULTING GROUP

Date	Description
12/07/18	SD Pricing
02/15/19	DD Pricing
02/22/19	Site Plan Review & Watershed Submittal
05/21/19	Design Team Review
06/10/19	Issue for Permit and Construction
09/23/19	Site Plan Review/Watershed Resubmittal

Seal / Signature

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 Professional Engineer under the laws of the State of Minnesota.

PRINT NAME: BRADY P. RUTMAN

SIGNATURE:

DATE: JUNE 10, 2019

LICENSE #: 56607

Project Name

LUTHER SEMINARY OLSON CENTER + GULLIXSON HALL

Project Number

30.7644.000 (SRF #11404.00)

Scale

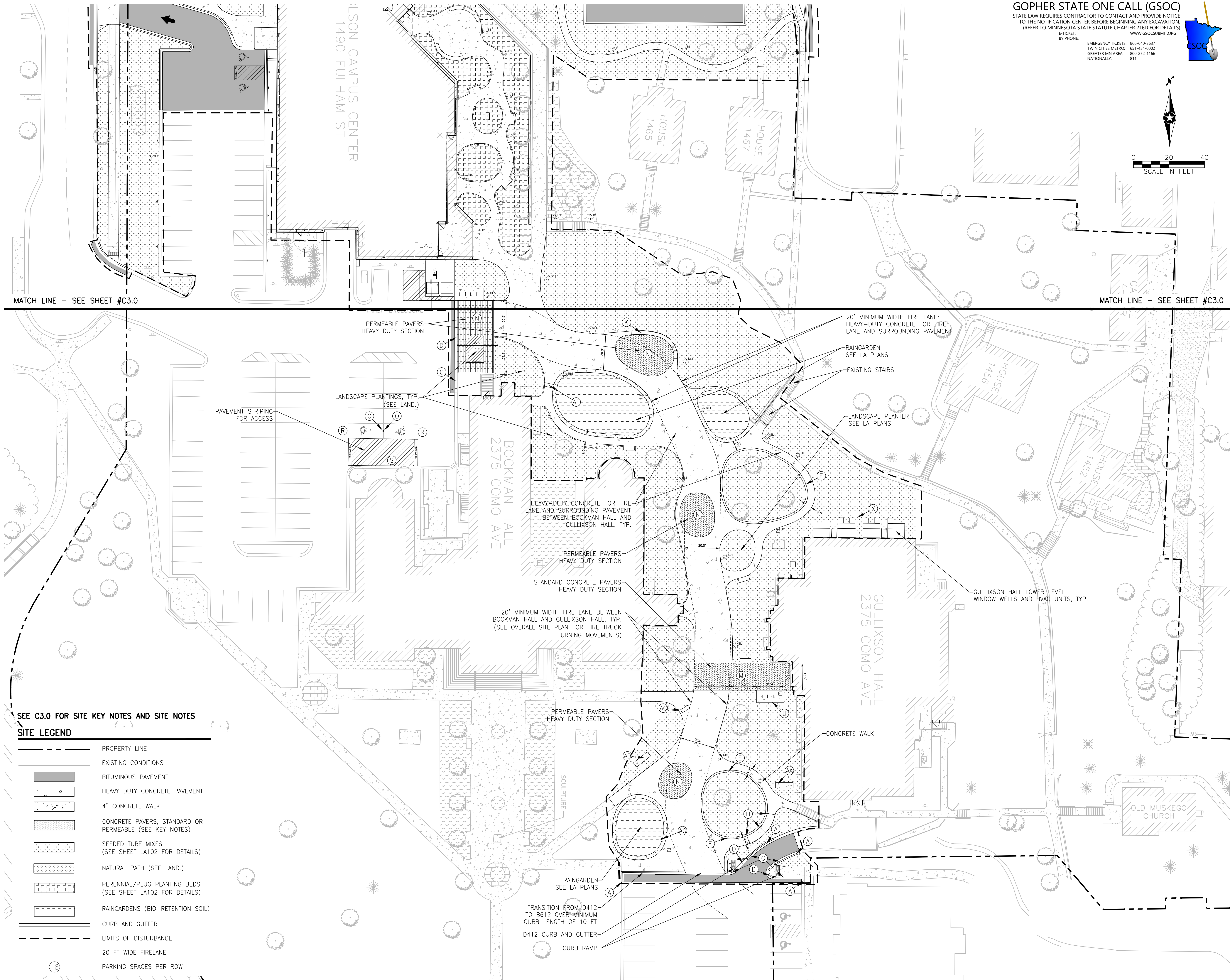
1" = 20'

Description

SITE PLAN - NORTH

C3.0

© 2018 Gensler



GOPHER STATE ONE CALL (GSOC)
STATE LAW REQUIRES CONTRACTOR TO CONTACT AND PROVIDE NOTICE
TO THE NOTIFICATION CENTER BEFORE BEGINNING ANY EXCAVATION.
(REFER TO MINNESOTA STATE STATUTE CHAPTER 216D FOR DETAILS)
E-TICKET: WWW.GSOC.SUBMIT.ORG
BY PHONE: EMERGENCY TICKETS: 866-640-3637
TWIN CITIES METRO: 651-454-0002
GREATER MN AREA: 800-252-1166
NATIONALLY: 811



2375 Como Avenue
St. Paul, MN 55108

Gensler

706 2nd Avenue South
Suite 1200
Minneapolis, MN 55402
United States

Tel 612.333.1113
Fax 612.333.1997



Dunham Engineering
50 South Sixth Street, Suite
1100
Minneapolis, MN 55402-1540
Tel 612.465.7550
Fax 612.465.7551



BKBM Engineers
6120 Earle Brown Dr, Suite
700
Minneapolis, MN 55430
Tel 763.843.0420



SRF Consulting Group
1 Carlson Parkway North,
Suite 150
Minneapolis, MN 55447-4443
Tel 763.249.6796



Ten x Ten Studio
575 SE 9th St, Suite 210
Minneapolis, MN 55414
Tel 612.440.8369

THIS DRAWING DEVELOPED BY:
SRF CONSULTING GROUP

△	Date	Description
1	12/07/18	SD Pricing
2	02/15/19	DD Pricing
3	02/22/19	Site Plan Review & Watershed Submittal
4	05/21/19	Design Team Review
5	06/10/19	Issue for Permit and Construction
6	09/23/19	Site Plan Review/Watershed Resubmittal

Seal / Signature

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 Professional Engineer under the laws of the State of Minnesota.

PRINT NAME: BRADY P. RUTMAN

SIGNATURE:

DATE: JUNE 10, 2019

LICENSE #: 56607

Project Name

LUTHER SEMINARY OLSON CENTER + GULLIXSON HALL

Project Number

30.7644.000 (SRF #11404.00)

Scale

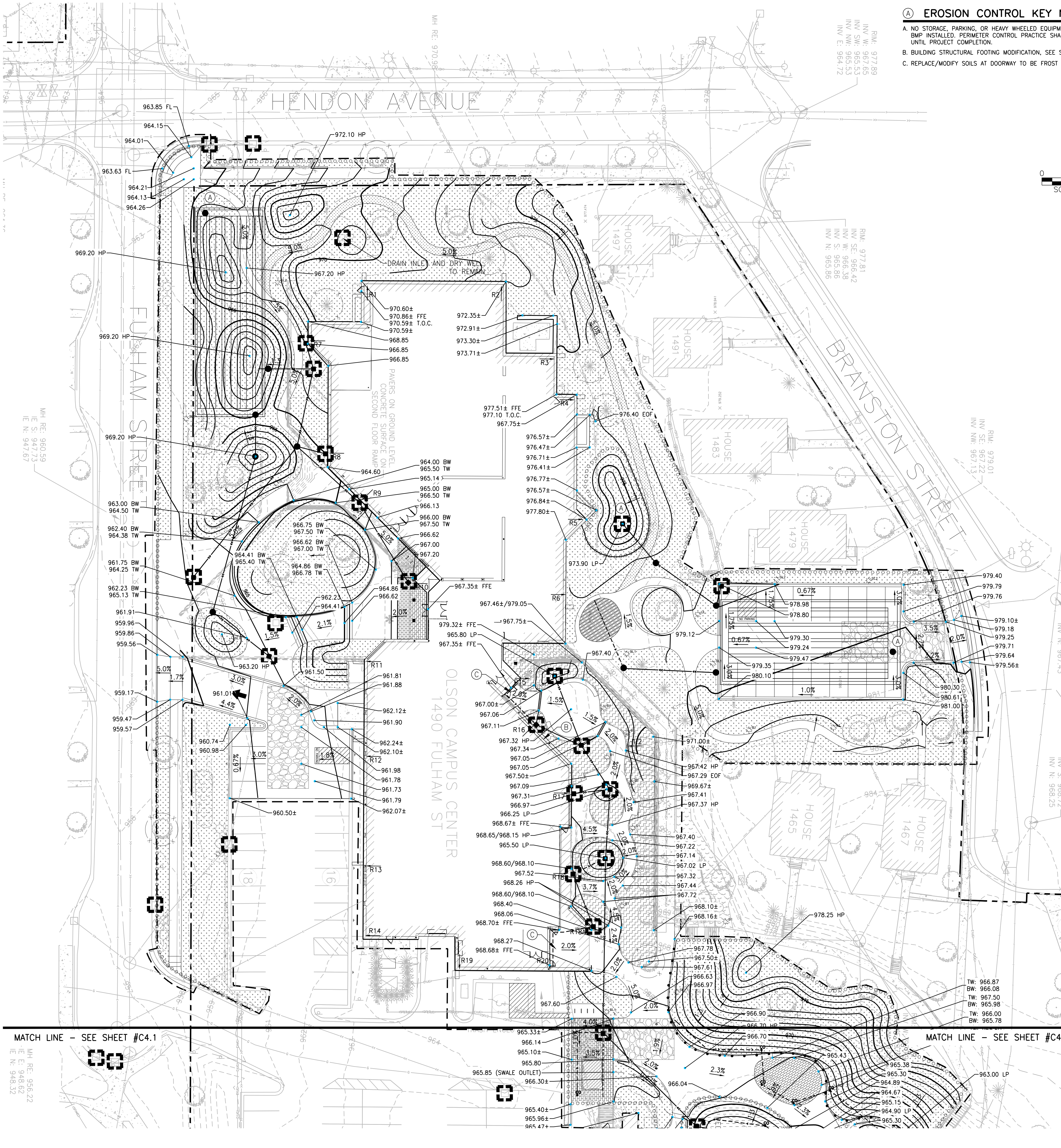
1" = 20'

Description

SITE PLAN - SOUTH

C3.1

© 2018 Gensler



EROSION CONTROL KEY NOTES

- NO STORAGE, PARKING, OR HEAVY WHEELED EQUIPMENT ALLOWED AFTER BMP INSTALLED. PERIMETER CONTROL PRACTICE SHALL REMAIN IN PLACE UNTIL PROJECT COMPLETION.
- BUILDING STRUCTURAL FOOTING MODIFICATION, SEE STRUCTURAL.
- REPLACE/MODIFY SOILS AT DOORWAY TO BE FROST NON-SUSCEPTIBLE

GOPHER STATE ONE CALL (GSOC)

STATE LAW REQUIRES CONTRACTOR TO CONTACT AND PROVIDE NOTICE TO THE NOTIFICATION CENTER BEFORE BEGINNING ANY EXCAVATION. (REFER TO MINNESOTA STATE STATUTE CHAPTER 216D FOR DETAILS)

BY PHONE: 866-640-3637
TWIN CITIES METRO: 651-454-0002
GREATER MN AREA: 800-252-1166
NATIONALLY: 811



GRADING AND EROSION CONTROL LEGEND

- PROPERTY LINE
- PROPOSED CONTOURS
- EXISTING CONTOURS
- PROPOSED SPOT ELEVATION
- EMERGENCY OVERTFLOW
- PROPOSED SURFACE SLOPE
- SILT FENCE
- BIO ROLL
- INLET PROTECTION
- TREE PROTECTION
- ROCK CONSTRUCTION ENTRANCE
- PERMEABLE PAVERS
- SEEDED TURF MIXES (SEE LAND. FOR DETAILS)
- PERENNIAL/PLUG PLANTING BEDS (SEE LAND. FOR DETAILS)
- RAINGARDENS (BIO-RETENTION SOIL)
- DEPRESSED PLANTER EDGE (SEE LA PLANS)
- PROPOSED STORM SEWER (SEE UTILITY PLAN)
- PROPOSED DRAIN TILE (SEE UTILITY PLAN)
- LIMITS OF DISTURBANCE
- EXISTING STORM SEWER
- PROPOSED STORM MANHOLE/CATCH BASIN
- EXISTING STORM STRUCTURES

GRADING, DRAINAGE, AND EROSION CONTROL NOTES

- THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C/ASCE 38-2, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."
- SPOT ELEVATIONS REPRESENT FINISHED SURFACE GRADES, GUTTER/FLOW LINE, FACE OF BUILDING, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- CATCH BASINS AND MANHOLES IN PAVED AREAS SHALL BE SUMPED 0.04 FEET. ALL CATCH BASINS IN GUTTERS SHALL BE SUMPED 0.16 FEET. RIM ELEVATIONS SHOWN ON PLANS DO NOT REFLECT SUMPED ELEVATIONS.
- ALL DISTURBED UNPAVED AREAS ARE TO RECEIVE MINIMUM OF 6 INCHES OF TOP SOIL AND SEED/MULCH OR SOD. THESE AREAS SHALL BE WATERED/MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION IS ESTABLISHED.
- FOR SITE RETAINING WALLS "TW" EQUALS SURFACE GRADE AT TOP FACE OF WALL (NOT TOP OF WALL), "GW" EQUALS SURFACE GRADE AT WALL GRADE TRANSITION, AND "BW" EQUALS SURFACE GRADE AT BOTTOM FACE OF WALL (NOT BOTTOM OF BURIED WALL COURSES).
- STREETS MUST BE CLEANED AND SWEEPED WHENEVER TRACKING OF SEDIMENTS OCCURS AND BEFORE SITES ARE LEFT IDLE FOR WEEKENDS AND HOLIDAYS. A REGULAR SWEEPING SCHEDULE MUST BE ESTABLISHED.
- DUST MUST BE ADEQUATELY CONTROLLED.
- ALL SLOPES 1:3(V:H) OR GREATER TO RECEIVE EROSION CONTROL; MAINTAIN SHEET FLOW AND MINIMIZE RILLS AND/OR GULLIES.
- ALL STORM DRAINS AND INLETS MUST BE PROTECTED UNTIL ALL SOURCES OF POTENTIAL DISCHARGE ARE STABILIZED.
- TEMPORARY SOIL STOCKPILES MUST HAVE EFFECTIVE SEDIMENT CONTROL AND CAN NOT BE PLACED IN SURFACE WATERS OR STORM WATER CONVEYANCE SYSTEMS. TEMPORARY STOCKPILES WITHOUT SIGNIFICANT AMOUNT OF SILT, CLAY, OR ORGANIC COMPOUNDS ARE EXEMPT EX: CLEAN AGGREGATE STOCK PILES, DEMOLITION CONCRETE STOCKPILES, SAND STOCKPILES.
- FINAL STABILIZATION REQUIRES THAT ALL SOIL DISTURBING ACTIVITIES HAVE BEEN COMPLETED AND THAT DISTURBED AREAS ARE STABILIZED BY A UNIFORM PERENNIAL VEGETATIVE COVER WITH 70% OF THE EXPECTED FINAL DENSITY, AND THAT ALL PERMANENT PAVEMENTS HAVE BEEN INSTALLED. ALL TEMPORARY BMP'S SHALL BE REMOVED, DITCHES STABILIZED, AND SEDIMENT SHALL BE REMOVED FROM PERMANENT CONVEYANCES AND SEDIMENTATION BASINS IN ORDER TO RETURN THE POND TO DESIGN CAPACITY.
- NOTIFY THE CAPITOL REGION WATERSHED DISTRICT INSPECTOR AT (651)-644-8888 AT LEAST 24 HOURS PRIOR TO THE CONSTRUCTION OF STORMWATER BMP'S.
- SEE SWPPP NOTES AND DETAILS FOR ADDITIONAL EROSION CONTROL NOTES AND REQUIREMENTS. CONTRACTOR SHALL PROVIDE ALL REQUIRED EROSION CONTROL, PERMITS/FEE'S, INSPECTORS, INSPECTIONS, AND DOCUMENTATION. REFER TO THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT FOR ANY ADDITIONAL SITE PREPARATION INFORMATION OR REQUIREMENTS.
- PROTECT ALL STORMWATER BMP'S FROM COMPACTION DURING CONSTRUCTION.
- PROTECT RAIN GARDENS FROM EROSION AT ALL TIMES AND CORRECT ANY CONTAMINATION OF THE SOIL IMMEDIATELY.
- IF GROUND WATER IS PRESENT IN THE EXCAVATION, OR IF THE EXPOSED SOILS ARE WET AND UNSTABLE, CONTACT THE OWNER OR ENGINEER FOR A RECOMMENDATION FROM THE GEOTECHNICAL ENGINEER.
- CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES PRIOR TO COMMENCING GRADING ACTIVITIES AND SHALL MAINTAIN SAID MEASURES FOR DURATION OF CONSTRUCTION ACTIVITIES. UPON ESTABLISHMENT OF TURF, THE CONTRACTOR SHALL REMOVE THE EROSION CONTROL MEASURES AND DISPOSE OF OFF SITE.
- CONTRACTOR TO PREVENT DIRT AND/OR DEBRIS FROM ENTERING STORM SEWER OR BEING TRANSPORTED OFF SITE IN AN UNCONTROLLED MANNER. CONTRACTOR TO VERIFY AT PROJECT CLOSEOUT THAT STORM SEWER SYSTEM IS CLEAR OF SEDIMENT AND/OR DEBRIS AND IS FULLY FUNCTIONAL.
- CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES AFTER EVERY RAINFALL EVENT AND/OR EVERY 7 DAYS.
- ALL DISTURBED NON-PAVED AREAS SHALL RECEIVE TEMPORARY PROTECTION OR PERMANENT COVER WITHIN 14 DAYS OF DISTURBANCE OPERATIONS.
- WHEN TRAPPED SEDIMENT REACHES 1/3 OF THE HEIGHT OF SILT FENCE, IT SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR.
- CATCH BASIN SEDIMENT FILTER SACKS SHALL BE CLEANED WHEN SEDIMENT REACHES 1/3 THE CAPACITY OF THE SACK.
- WHEN SEDIMENT IS TRACKED ON TO PAVED SURFACES, IT SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY.
- ANY SEDIMENT FROM THE CONSTRUCTION SITE THAT ACCUMULATES ON OR OFF THE OWNER'S PROPERTY SHALL BE REMOVED BY THE CONTRACTOR AT HIS/HER EXPENSE. ANY DAMAGE THAT OCCURS FROM THE ACCUMULATED SEDIMENT OR FROM THE CONTRACTOR'S REMOVAL OF THE SEDIMENT, SHALL BE REPAIRED BY THE CONTRACTOR AT HIS/HER EXPENSE.
- ALL EXCAVATIONS MUST COMPLY WITH THE REQUIREMENTS OF OSHA 29 CFR, PART 1926, SUBPART P, "EXCAVATIONS AND TRENCHES." THIS DOCUMENT STATES THAT EXCAVATION SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR MUST COMPLY WITH THE REQUIREMENTS OF THE PROJECT SPECIFIC STORM WATER POLLUTION PREVENTION PLAN. TEMPORARY STORMWATER IMPROVEMENTS SHALL BE PROVIDED UNTIL THE PERMANENT IMPROVEMENTS ARE ESTABLISHED. CONTRACTOR TO DESIGN AND SUBMIT ALL TEMPORARY STORMWATER ITEMS FOR ENGINEER APPROVAL.



2375 Como Avenue
St. Paul, MN 55108



706 2nd Avenue South
Suite 1200
Minneapolis, MN 55402
United States

Tel 612.333.1113
Fax 612.333.1997



Dunham Engineering
50 South Sixth Street, Suite
1100
Minneapolis, MN 55402-1540
Tel 612.465.7550
Fax 612.465.7551



BKBM Engineers
6120 Earle Brown Dr, Suite
700
Minneapolis, MN 55430
Tel 763.843.0420
Fax 612.465.7551



SRF Consulting Group
1 Carlson Parkway North,
Suite 150
Minneapolis, MN 55447-4443
Tel 763.249.6796



Ten x Ten Studio
575 SE 9th St, Suite 210
Minneapolis, MN 55414
Tel 612.440.8369

THIS DRAWING DEVELOPED BY:
SRF CONSULTING GROUP

Date	Description
------	-------------

12/07/18	SD Pricing
02/15/19	DD Pricing
02/22/19	Site Plan Review & Watershed Submittal
05/21/19	Design Team Review
06/10/19	Issue for Permit and Construction
09/23/19	Site Plan Review/Watershed Resubmittal

Seal / Signature

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 Professional Engineer under the laws of the State of Minnesota.

PRINT NAME: BRADY P. RUTMAN

SIGNATURE:
DATE: JUNE 10, 2019
LICENSE #: 56607

Project Name

LUTHER SEMINARY OLSON CENTER + GULLIXSON HALL

Project Number

30.7644.000 (SRF #11404.00)

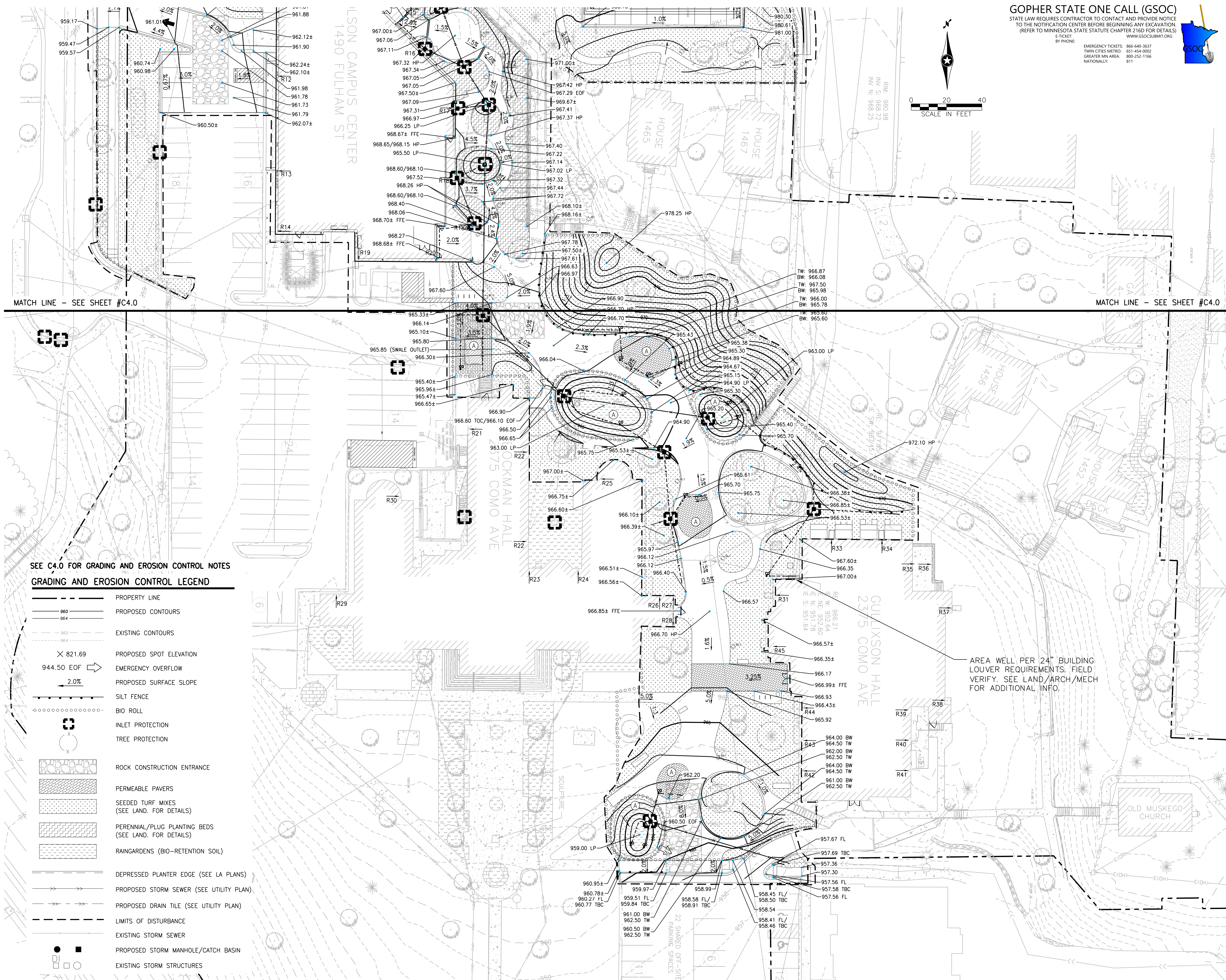
Scale

1" = 20'

Description

GRADING, DRAINAGE, AND EROSION CONTROL PLAN - NORTH

C4.0



GOPHER STATE ONE CALL (GSOC)
STATE LAW REQUIRES CONTRACTOR TO CONTACT AND PROVIDE NOTICE
TO THE NOTIFICATION CENTER BEFORE BEGINNING ANY EXCAVATION.
(REFER TO MINNESOTA STATE STATUTE CHAPTER 216D FOR DETAILS)
E-TICKET: WWW.GSOCSUBMIT.ORG
BY PHONE: EMERGENCY TICKETS: 866-640-3637
TWIN CITIES METRO: 651-454-0002
GREATER MN AREA: 800-252-1166
NATIONALLY: 811



2375 Como Avenue
St. Paul, MN 55108

Gensler

706 2nd Avenue South
Suite 1200
Minneapolis, MN 55402
United States

Tel 612.333.1113
Fax 612.333.1997



Dunham Engineering
50 South Sixth Street, Suite
1100
Minneapolis, MN 55402-1540
Tel 612.465.7550
Fax 612.465.7551



BKBM Engineers
6120 Earle Brown Dr, Suite
700
Minneapolis, MN 55430
Tel 763.843.0420



SRF Consulting Group
1 Carlson Parkway North,
Suite 150
Minneapolis, MN 55447-4443
Tel 763.249.6796



Ten x Ten Studio
575 SE 9th St, Suite 210
Minneapolis, MN 55414
Tel 612.440.8369

THIS DRAWING DEVELOPED BY:
SRF CONSULTING GROUP

△	Date	Description
1	12/07/18	SD Pricing
2	02/15/19	DD Pricing
3	02/22/19	Site Plan Review & Watershed Submittal
4	05/21/19	Design Team Review
5	06/10/19	Issue for Permit and Construction
6	09/23/19	Site Plan Review/Watershed Resubmittal

Seal / Signature

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 Professional Engineer under the laws of the State of Minnesota.

PRINT NAME: BRADY P. RUTMAN

SIGNATURE:

DATE: JUNE 10, 2019

LICENSE #: 56607

Project Name

LUTHER SEMINARY OLSON CENTER + GULLIXSON HALL

Project Number

30.7644.000 (SRF #11404.00)

Scale

1" = 20'

Description

GRADING, DRAINAGE, AND EROSION CONTROL PLAN - SOUTH

C4.1

© 2018 Gensler

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE

PROJECT DESCRIPTION/LOCATION AND SCOPE

SEE COVER SHEET FOR LOCATION MAP AND PROJECT NUMBERS. THE SCOPE OF THIS PROJECT INCLUDES GROUND IMPROVEMENTS AROUND SEVERAL EXISTING BUILDINGS AS WELL AS SOME PARKING LOT RECONSTRUCTION AT LUTHER SEMINARY IN ST. PAUL, MINNESOTA. PERMANENT STORMWATER BEST MANAGEMENT PRACTICES (BMPs) ARE REQUIRED DUE TO THE FULL RECONSTRUCTION OF IMPERVIOUS SURFACES AND AN OVERALL INCREASE IN IMPERVIOUS SURFACE.

SPECIAL AND IMPAIRED WATERS
THERE ARE NO SPECIAL OR IMPAIRED WATERS WITHIN ONE MILE OF THE PROJECT LIMITS.

ENVIRONMENTALLY SENSITIVE AREAS
THERE ARE NO WETLANDS WITHIN OR ADJACENT TO THE PROJECT THAT WILL BE IMPACTED.

LONG TERM MAINTENANCE AND OPERATION
LONG TERM MAINTENANCE AND OPERATION OF BMPs WILL BE PERFORMED BY LUTHER SEMINARY.

SWPPP DEVELOPMENT AND MAINTENANCE
THIS SWPPP WAS PREPARED BY PERSONNEL WHO ARE CERTIFIED IN THE DESIGN OF CONSTRUCTION SWPPPS. COPIES OF THE CERTIFICATIONS ARE AVAILABLE UPON REQUEST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A CERTIFIED EROSION AND SEDIMENT CONTROL SUPERVISOR WHO SHALL BE RESPONSIBLE FOR FINALIZING, CERTIFYING, AND MAINTAINING THE SWPPP DOCUMENT AND OVERSEEING THE IMPLEMENTATION OF THE SWPPP. SEE BELOW FOR ADDITIONAL REQUIREMENTS.

SWPPP AMENDMENTS
THE SWPPP SHALL BE AMENDED WHEN:

- A. THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE, WEATHER OR SEASON HAVING A SIGNIFICANT EFFECT ON DISCHARGE OF POLLUTANTS.
- B. INSPECTIONS INDICATE THE SWPPP IS NOT EFFECTIVE.
- C. A WATER QUALITY STANDARD CHANGES AND THE MPCA DETERMINES THE SWPPP SHALL BE AMENDED TO COMPLY.

A DESCRIPTION OF ANY CHANGE TO THE SWPPP, ALONG WITH THE DATE AND NAME OF THE REVISION SHALL BE RECORDED AND INCLUDED WITH THE SWPPP AND RETAINED ON SITE. THE OWNER SHALL RETAIN ALL RECORDS AFTER COMPLETION OF THE PROJECT.

DRINKING WATER SOURCE MANAGEMENT AREA (DWSMA) AND KARST REGIONS
THE PROJECT IS NOT LOCATED IN A DWSMA OR KARST AREA.

SOIL TYPES
SOIL TYPES FOUND ON THIS PROJECT CAN VARY SIGNIFICANTLY BETWEEN SILTY SANDS, SILTY GRAVELLY SANDS, AND CLAYEY SOILS.

LAND FEATURE CHANGE
LAND FEATURE CHANGES ARE ANTICIPATED WITH THIS PROJECT TO ACCOMMODATE THE PROPOSED FIRE STATION BUILDING, ADJACENT DRIVEWAYS AND PARKING AREAS, AND PERMANENT BMPs.

TOTAL DISTURBED AREA = 2.98 AC
EXISTING IMPERVIOUS AREA = 0.74 AC
PROPOSED IMPERVIOUS AREA = 0.87 AC
INCREASED IMPERVIOUS AREA = 0.23 AC

PROJECT CONTACTS
THE OWNER AND CONTRACTOR ARE RESPONSIBLE FOR THE IMPLEMENTATION OF THE SWPPP AND INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPs BEFORE, DURING AND AFTER CONSTRUCTION UNTIL THE NOTICE OF TERMINATION HAS BEEN FILED.

ORGANIZATION
CITY OF ST. PAUL, MN CONTACT NAME: BRYAN MURPHY PHONE: 651-266-6411

SRF CONSULTING GROUP BRADY RUTMAN 763-475-0010

MPCA DUTY OFFICER 24 HOUR EMERGENCY NOTIFICATION: 651-649-5451 800-422-0798

LOCATION OF SWPPP REQUIREMENTS
THE REQUIRED SWPPP ELEMENTS MAY BE LOCATED IN MANY PLACES WITHIN THE PLAN SET AS WELL AS IN THE SPECIAL PROVISIONS, CONSTRUCTION DIARIES ARE ON FILE WITH THE PROJECT OWNER. THERE MAY BE ADDITIONAL REQUIRED SWPPP ELEMENTS INCLUDED ON THE PROJECT THAT ARE NOT LISTED ON THIS SHEET. IN ADDITION, THE MINNESOTA NPDES/SDS CONSTRUCTION STORMWATER PERMIT SHOULD BE REVIEWED AND CONSULTED BY THE EROSION AND SEDIMENT CONTROL SUPERVISOR.

SITE MAPS AND DESIGN CALCULATIONS
IN ADDITION TO WHAT IS LOCATED WITHIN THIS PLAN, SITE MAPS AND BMP DESIGN CALCULATIONS ARE AVAILABLE UPON REQUEST. PLEASE CONTACT THE ENGINEER OF RECORD WITH ANY QUESTIONS REGARDING THE SITE MAPS OR CALCULATIONS.

GENERAL SWPPP NOTES FOR CONSTRUCTION ACTIVITY

1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION STORMWATER PERMIT AT ALL TIMES UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA (FORM IS AVAILABLE FROM MPCA WEBSITE). THE CONTRACTOR SHALL DEVELOP A CHAIN OF COMMAND WITH ALL OPERATORS ON THE SITE TO ENSURE THAT THE SWPPP SHALL BE IMPLEMENTED AND STAY IN EFFECT UNTIL THE CONSTRUCTION PROJECT IS COMPLETE, THE ENTIRE SITE HAS UNDERGONE FINAL STABILIZATION, AND THE NOTICE OF TERMINATION (NOT) HAS BEEN SUBMITTED TO THE MPCA. CONTRACTOR IS RESPONSIBLE FOR ALL GOVERNMENTAL PERMITS, INCLUDING APPLICATIONS AND FEES. INCLUDING, BUT NOT LIMITED TO: MPCA NPDES, RAMSEY-WASHINGTON METRO WATERSHED, AND THE CITY OF ST. PAUL.
2. THE CONTRACTOR SHALL PREPARE A WRITTEN, NOT ORAL, WEEKLY SCHEDULE OF PROPOSED EROSION CONTROL ACTIVITIES FOR THE PROJECT ENGINEER'S APPROVAL AS PER MNDOT SPEC. 1717.2C.
3. IT IS NOT ANTICIPATED THAT THE CONTRACTOR WILL BE REQUIRED TO PERFORM BURNING OF ANY MATERIAL WITHIN PROJECT BOUNDARY.
4. THE CONTRACTOR SHALL PLACE STABILIZED CONSTRUCTION EXITS, AS NECESSARY, TO PREVENT TRACKING OF SEDIMENT ONTO PAVED SURFACES AND IN COMPLIANCE WITH PART IV.C. OF THE NPDES PERMIT. STABILIZED CONSTRUCTION EXITS SHALL BE SUFFICIENTLY SIZED AND MAINTAINED TO PREVENT TRACK OUT. STABILIZED CONSTRUCTION EXITS SHALL BE INCIDENTAL. MATERIALS, MEANS, AND METHODS TO BE APPROVED PRIOR TO CONSTRUCTION ACTIVITY.
5. ALL TOPSOIL IN DISTURBED AREAS SHALL BE REMOVED AND STOCKPILED FOR LATER PLACEMENT. AVOID COMPACTION AS MUCH AS IS FEASIBLE IN ALL AREAS WHERE COMPACTION IS NOT REQUIRED FOR CONSTRUCTION. COMPACTION SHALL BE AVOIDED IN ALL AREAS DESIGNATED FOR INFILTRATION.
6. DO NOT DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS. DELINEATE AREAS NOT TO BE DISTURBED PRIOR TO STARTING GROUND DISTURBING ACTIVITIES. IF IT BECOMES NECESSARY TO DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS OBTAIN WRITTEN PERMISSION PRIOR TO PROCEEDING. PRESERVE ALL BUFFERS (IF ANY) SHOWN ON THE PLANS.
7. DIRECT DISCHARGES FROM BMPs TO VEGETATED AREAS AND ROUTE STORMWATER AROUND UNSTABILIZED AREAS OF THE SITE WHENEVER POSSIBLE. PROVIDE EROSION CONTROL AND VELOCITY DISSIPATION DEVICES AS NEEDED TO PREVENT EROSION AND NUISANCE CONDITIONS.
8. PROVIDE STABILIZATION IN ANY TRENCHES CUT FOR DEWATERING OR SITE DRAINING PURPOSES.
9. TEMPORARY DEWATERING ACTIVITIES MAY BE REQUIRED. ALL TEMPORARY DEWATERING SHALL BE DISCHARGED TO AN APPROVED LOCATION FOR TREATMENT PRIOR TO DISCHARGE TO THE RECEIVING WATER. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT SITE MANAGEMENT PLANS TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK ACCORDING TO SPEC 1717.2D. TEMPORARY DEWATERING SHALL BE INCIDENTAL.
10. BASIN DRAINING ACTIVITIES OF TURBID OR SEDIMENT LADEN WATER SHALL BE DISCHARGED TO TEMPORARY SEDIMENT BASINS WHENEVER POSSIBLE. IN THE EVENT THAT IT IS NOT POSSIBLE TO DISCHARGE THE SEDIMENT LADEN WATER TO A TEMPORARY SEDIMENT BASIN THE WATER SHALL BE TREATED SO THAT IT DOES NOT CAUSE A NUISANCE CONDITION IN THE RECEIVING WATERS OR TO DOWNSTREAM LANDOWNERS.
11. IT IS NOT ANTICIPATED THAT POLYMERS, FLOCCULANTS OR OTHER SEDIMENTATION TREATMENT CHEMICALS SHALL BE USED. HOWEVER, IF THE USE OF SUCH CHEMICALS BECOMES NECESSARY TO COMPLY WITH PERMIT REQUIREMENTS, IT SHALL BE IN ACCORDANCE WITH PART IV.C.10. OF THE CONSTRUCTION GENERAL PERMIT.
12. PLANS AND NOTES FOR EROSION CONTROL PRACTICES ARE THE MINIMUM. ADDITIONAL PRACTICES MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION.

POLLUTION PREVENTION NOTES

1. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS REGARDING POLLUTION PREVENTION MANAGEMENT DURING CONSTRUCTION, WHICH SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING THE FOLLOWING (ITEMS LISTED ARE INCIDENTAL):
 - A. WASHOUT AREAS FOR CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS FOR USE BY ALL SUBCONTRACTORS AND MATERIAL TESTING PERSONNEL. LOCATION OF WASHOUT AREAS SHALL BE IDENTIFIED BY SIGNAGE AND SHALL BE AT LEAST 200 FT. FROM SITE MANAGEMENT PLAN REQUIREMENT AREAS (IF APPLICABLE) OR ENVIRONMENTALLY SENSITIVE AREAS, AND UTILIZE A LEAK-PROOF CONTAINMENT FACILITY OR IMPERMEABLE LINER THAT PREVENTS RUNOFF ONTO ADJACENT SOILS. AN ENGINEERED COLLECTION SYSTEM CAN ALSO BE USED IF IT IS APPROVED BY THE PROJECT ENGINEER.
 - B. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE PROJECT ENGINEER FOR A CHEMICAL STORAGE AREA AND SHALL DESIGNATE AN AREA FOR FUELING AND MINOR MAINTENANCE OF CONSTRUCTION VEHICLES (INCLUDING WASHING) WITH MEANS TO CAPTURE ANY FUEL SPILLS. RUNOFF SHALL BE CONTAINED IN A TEMPORARY SEDIMENT BASIN OR OTHER EFFECTIVE CONTROL AND ALL WASTE GENERATED SHALL BE PROPERLY DISPOSED OF. NO ENGINE DEGREASING IS ALLOWED ON SITE.
 - C. SOLID WASTE COLLECTION AND REMOVAL.
 - D. SECONDARY CONTAINMENT FOR STORAGE OF HAZARDOUS MATERIALS.
 - E. SECURED HAZARDOUS WASTE STORAGE CONTAINERS
 - F. CHEMICAL SPILL KITS (SHALL BE PROVIDED AT EACH LOCATION WHERE CHEMICALS ARE USED OR STORED AND ANY LOCATION WHERE VEHICLES ARE FUELED OR MAINTAINED).
 - G. PORTABLE RESTROOM FACILITIES THAT ARE ANCHORED TO PREVENT TIPPING.
2. CHEMICALS SHALL BE KEPT IN A SECURE STORAGE AREA WITH RESTRICTED ACCESS IN SEALED CONTAINERS WHEN NOT IN USE. RETURN ALL CHEMICALS TO THE DESIGNATED STORAGE AREA BY THE END OF THE DAY UNLESS INFEASIBLE. CHEMICAL STORAGE CONTAINERS SHALL HAVE SECONDARY CONTAINMENT WHEN BEING USED OR STORED ON THE PROJECT SITE, AND PRODUCTS OR CHEMICALS THAT MAY LEACH POLLUTANTS SHALL BE UNDER COVER (PLASTIC SHEETING OR TEMPORARY ROOF). CHEMICAL SPILLS OF ANY KIND (OIL, FUEL, FERTILIZER, ETC.) SHALL BE CLEANED UP AND REMOVED FROM THE SITE IMMEDIATELY. THE CONTRACTOR SHALL HAVE A SPILL KIT ON SITE AT ALL TIMES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING AND FOLLOWING A WRITTEN DISPOSAL PLAN FOR ALL HAZARDOUS WASTE MATERIALS. THE PLAN SHALL INCLUDE HOW THE MATERIAL SHALL BE DISPOSED OF AND THE LOCATION OF THE DISPOSAL SITE AND SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO WORK ON SITE. LEAKS, SPILLS, OR OTHER RELEASES SHALL BE RESPONDED TO IN ACCORDANCE WITH MPCA SPILL CONTAINMENT AND REMEDIAL ACTION PROCEDURES.
4. THE CONTRACTOR SHALL USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT CONCRETE DUST, PARTICLES, SAW CUT SLURRY, PLANING WASTE AND OTHER BITUMINOUS WASTES FROM AREAS OF EXISTING OR FUTURE VEGETATED SOILS, AND ALL WATER CONVEYANCE SYSTEMS, INCLUDING INLETS, DITCHES AND CURB FLOW LINES.
5. THE CONTRACTOR SHALL USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT CONCRETE DUST, PARTICLES, SAW CUT SLURRY, PLANING WASTE AND OTHER CONCRETE WASTES FROM LEAVING PUBLIC RIGHT OF WAY, DEPOSITING IN EXISTING OR FUTURE VEGETATED AREAS OR ENTERING STORMWATER CONVEYANCE SYSTEM INCLUDING INLETS AND CURB FLOW LINES. ONSITE RELEASE OF CONCRETE SLURRY IS PERMISSIBLE IF MINNESOTA POLLUTION CONTROL GUIDANCE FOR ROAD CONSTRUCTION CONCRETE SLURRY AND THE REQUIREMENTS OF THE SPECIAL PROVISIONS ARE FOLLOWED.

EROSION CONTROL SUPERVISOR, INSPECTIONS AND MAINTENANCE NOTES

1. IN ACCORDANCE WITH SPEC. 2573.3 A1, THE CONTRACTOR SHALL PROVIDE A CERTIFIED EROSION CONTROL SUPERVISOR IN GOOD STANDING WHO IS KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPs. PROVIDE PROOF OF CERTIFICATION (UNIVERSITY OF MINNESOTA - CONSTRUCTION SITE MANAGEMENT) AT THE PRECONSTRUCTION MEETING. WORK SHALL NOT BE ALLOWED TO COMMENCE UNTIL PROOF OF CERTIFICATION HAS BEEN PROVIDED. THE EROSION CONTROL SUPERVISOR IS INCIDENTAL.
2. THE EROSION CONTROL SUPERVISOR SHALL WORK WITH THE PROJECT ENGINEER TO OVERSEE THE IMPLEMENTATION OF THE SWPPP AND THE INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPs BEFORE, DURING AND AFTER CONSTRUCTION UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA.
3. THE EROSION CONTROL SUPERVISOR IS RESPONSIBLE FOR COMPLYING WITH ALL THE INSPECTION AND MAINTENANCE REQUIREMENTS STATED IN THE NPDES PERMIT PART IV. E. INSPECTIONS OF THE ENTIRE CONSTRUCTION SITE SHALL OCCUR A MINIMUM OF ONCE EVERY SEVEN DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS (IN NO CASE SHALL THE TIME BETWEEN INSPECTIONS EXCEED 7 DAYS). RAINFALL AMOUNTS SHALL BE OBTAINED USING A PROPERLY MAINTAINED RAIN GAUGE ONSITE OR BY A WEATHER STATION THAT IS WITHIN ONE MILE. THE EROSION CONTROL SUPERVISOR SHALL THOROUGHLY INSPECT ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPs TO ENSURE INTEGRITY AND EFFECTIVENESS OF EACH BMP.
4. ALL INSPECTIONS AND MAINTENANCE CONDUCTED DURING CONSTRUCTION SHALL BE RECORDED IN WRITING WITHIN 24 HOURS AND THESE RECORDS SHALL BE RETAINED WITH THE SWPPP. INSPECTION REPORTS SHALL BE SUBMITTED TO THE PROJECT ENGINEER AND SWPPP DESIGNER IN A FORMAT APPROVED BY THE ENGINEER. INSPECTION RECORDS SHALL INCLUDE:
 - A. DATE AND TIME OF INSPECTIONS;
 - B. NAME OF PERSONS CONDUCTING INSPECTIONS;
 - C. FINDINGS OF INSPECTIONS, INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIONS;
 - D. CORRECTIVE ACTIONS TAKEN INCLUDING DATES, TIMES, AND THE PARTY COMPLETING MAINTENANCE ACTIVITIES;
 - E. DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCH IN 24 HOURS;
 - F. LOCATION, DESCRIPTION AND PHOTO OF ANY DISCHARGES OFF THE PROJECT SITE.
 - G. DOCUMENTS AND CHANGES MADE TO THE SWPPP.
5. THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING INSPECTION AND MAINTENANCE REQUIREMENTS (INSPECTIONS MAY BE REDUCED UNDER CERTAIN CONDITIONS AS COVER IS ESTABLISHED AND CONDITIONS CHANGE AS DESCRIBED IN PART IV. E OF THE NPDES PERMIT):
 - A. SILT FENCE SHALL BE REPAIRED, REPLACED OR SUPPLEMENTED WHEN IT BECOMES NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT OF THE SILT FENCE. REPAIRS SHALL BE MADE WITHIN 24 HOURS OF DISCOVERY.
 - B. INLET PROTECTION DEVICES SHOULD BE REPAIRED WHEN THEY BECOME NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT AND/OR DEPTH OF THE DEVICE.
 - C. TEMPORARY SEDIMENT BASINS, IF REQUIRED, SHALL HAVE THE SEDIMENT REMOVED ONCE THE SEDIMENT HAS REACHED 1/2 THE STORAGE VOLUME WITHIN 72 HOURS OF DISCOVERY.
 - D. REMOVE ANY SEDIMENT DEPOSITED IN SURFACE WATERS. SEDIMENT SHALL BE REMOVED AND ANY AREA DISTURBED BY THE REMOVAL RESTABILIZED WITHIN 7 DAYS OF DISCOVERY. A SITE MANAGEMENT PLAN IS REQUIRED FOR WORK IN ANY SURFACE WATER AND APPROPRIATE AUTHORITIES SHALL BE CONTACTED PRIOR TO COMMENCING WORK.
 - E. TRACKED SEDIMENT SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OF TRACKING ONTO PAVED SURFACES.
 - F. ALL OTHER NONFUNCTIONAL BMPs SHALL BE REPAIRED, REPLACED, OR SUPPLEMENTED WITHIN 24 HOURS OF DISCOVERY.
 - G. REINSTALL AS QUICKLY AS POSSIBLE ANY BMP REMOVED TO ACCOMMODATE SHORT TERM ACTIVITIES.
 - H. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL BMPs UNTIL WORK HAS BEEN COMPLETED, SITE HAS GONE UNDER FINAL STABILIZATION, AND THE NOTICE OF TERMINATION HAS BEEN SUBMITTED TO THE MPCA IN ACCORDANCE WITH PART II.C. OF THE CONSTRUCTION GENERAL PERMIT. SEDIMENT REMOVAL AND MAINTENANCE OF BMPs IS INCIDENTAL.
6. CLEAN OUT ALL PERMANENT STORMWATER BASINS REGARDLESS OF WHETHER USED AS A TEMPORARY SEDIMENT BASIN OR SEDIMENT TRAP TO THE DESIGN CAPACITY AFTER ALL UPGRADIENT LAND DISTURBING ACTIVITY IS COMPLETED.

STORMWATER MANAGEMENT OPERATION AND MAINTENANCE (NOT IN CONTRACT):

- 1) SWEEP STREET AND PARKING LOTS BI-ANNUALLY
- 2) INSPECT STORM SEWER SYSTEM BI-ANNUALLY. REMOVE ACCUMULATED DEBRIS FROM GRATES, STRUCTURES, AND PIPES. REMOVE SEDIMENT FROM PRETREATMENT DEVICES/SUMP MANHOLES WHEN LESS THAN 50% CAPACITY REMAINS.
- 3) INSPECT INFILTRATION BASIN VEGETATION ANNUALLY AND REPLACE ANY NON-VIABLE MATERIAL.
- 4) REMOVE & REPLACE BIO-MEDIA IF BASIN FAILS TO DRAIN WITHIN 72 HOURS OF A STORM EVENT.
- 5) KEEP A COPY OF THE OPERATION AND MAINTENANCE PLAN/MANUAL ON THE SITE OR IN AN AREA EASILY ACCESSIBLE TO MAINTENANCE STAFF.
- 6) PREPARE AND MAINTAIN A RECORD LOG OF ALL MAINTENANCE ACTIVITIES INCLUDING INSPECTION DATES, CONDITION OF FACILITIES AND MAINTENANCE OPERATIONS PERFORMED.

CAPITOL REGION WATERSHED DISTRICT NOTES

- 1) INFILTRATION PERIMETER CONTROL AND EROSION CONTROL PRACTICES SHALL REMAIN IN PLACE UNTIL THE FINAL COMPLETION OF THE PROJECT OR VEGETATION HAS BEEN ESTABLISHED (WHICHEVER IS LATER).
- 2) INSTALLATION OF INFILTRATION/FILTRATION PRACTICES SHALL BE DONE DURING PERIODS OF DRY WEATHER AND COMPLETED BEFORE A RAINFALL EVENT. PLACEMENT OF ENGINEERED SOILS SHALL BE ON DRY NATIVE SOIL ONLY.
- 3) EXCAVATION OF INFILTRATION AREAS SHALL BE COMPLETED USING A BACKHOE WITH A TOOTHED BUCKET.
- 4) NATIVE SOILS IN INFILTRATION AREAS SHALL BE DE-COMPACTED TO A MINIMUM DEPTH OF 18 INCHES.
- 5) THE BOTTOM EXCAVATION SURFACE OF INFILTRATION AREAS SHALL BE LEVEL WITHOUT DIPS OR SWALES.
- 6) DURING CONSTRUCTION, STORMWATER MUST BE ROUTED AROUND INFILTRATION AREAS UNTIL ALL CONSTRUCTION ACTIVITY HAS CEASED AND TRIBUTARY SURFACES ARE CLEANED OF SEDIMENT.
- 7) ENGINEERED SOIL SHALL REMAIN UNCONTAMINATED (NOT MIXED WITH OTHER SOIL) BEFORE AND DURING INSTALLATION.
- 8) SILT FENCE OR FABRIC PLACED UNDER THE GRATE IS NOT AN APPROVED FORM OF INLET PROTECTION.

GOPHER STATE ONE CALL (GSOC)

STATE LAW REQUIRES CONTRACTOR TO CONTACT AND PROVIDE NOTICE TO THE NOTIFICATION CENTER BEFORE BEGINNING ANY EXCAVATION. (REFER TO MINNESOTA STATE STATUTE CHAPTER 216D FOR DETAILS)
E-TICKET: WWW.GSOC.SUBMIT.ORG
BY PHONE:

EMERGENCY TICKETS: 866-640-3637
TWIN CITIES METRO: 651-454-0002
GREATER MN AREA: 800-252-1166
NATIONALLY: 811



2375 Como Avenue
St. Paul, MN 55108

Gensler

706 2nd Avenue South
Suite 1200
Minneapolis, MN 55402
United States

Tel 612.333.1113
Fax 612.333.1997



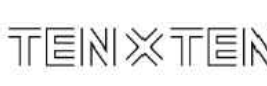
Dunham Engineering
50 South Sixth Street, Suite
1100
Minneapolis, MN 55402-1540
Tel 612.465.7550
Fax 612.465.7551



BKBM Engineers
6120 Earle Brown Dr, Suite
700
Minneapolis, MN 55430
Tel 763.843.0420



SRF Consulting Group
1 Carlson Parkway North,
Suite 150
Minneapolis, MN 55447-4443
Tel 763.249.6796



Ten x Ten Studio
575 SE 9th St, Suite 210
Minneapolis, MN 55414
Tel 612.440.8369

THIS DRAWING DEVELOPED BY:
SRF CONSULTING GROUP

△	Date	Description
---	------	-------------

1	12/07/18	SD Pricing
2	02/15/19	DD Pricing
3	02/22/19	Site Plan Review & Watershed Submittal
4	05/21/19	Design Team Review
5	06/10/19	Issue for Permit and Construction
6	09/23/19	Site Plan Review/Watershed Resubmittal

Seal / Signature

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 Professional Engineer under the laws of the State of Minnesota.

PRINT NAME: BRADY P. RUTMAN

SIGNATURE:

DATE: JUNE 10, 2019

LICENSE #: 56607

Project Name

LUTHER SEMINARY OLSON CENTER + GULLIXSON HALL

Project Number

30.7644.000 (SRF #11404.00)

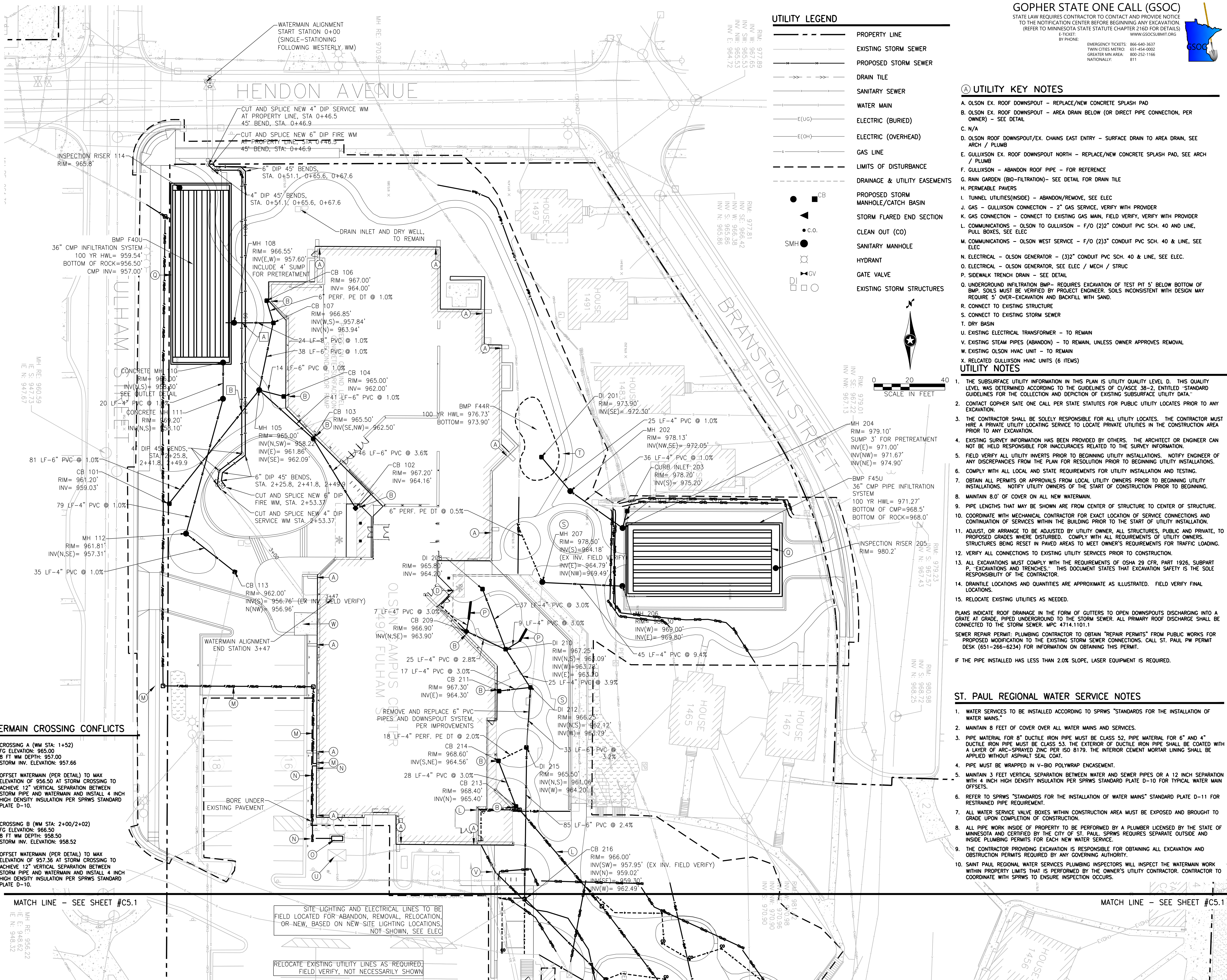
Scale

1" = 20'

Description

STORMWATER POLLUTION PREVENTION PLAN & NOTES

C4.2



GOPHER STATE ONE CALL (GSOC)
STATE LAW REQUIRES CONTRACTOR TO CONTACT AND PROVIDE NOTICE TO THE NOTIFICATION CENTER BEFORE BEGINNING ANY EXCAVATION. (REFER TO MINNESOTA STATE STATUTE CHAPTER 216D FOR DETAILS)
E-TICKET: WWW.GSOCSUBMIT.ORG
BY PHONE: 866-640-3637
TWIN CITIES METRO: 651-454-0002
GREATER MN AREA: 800-252-1166
NATIONALLY: 811

- UTILITY LEGEND**
- PROPERTY LINE
 - EXISTING STORM SEWER
 - PROPOSED STORM SEWER
 - DRAIN TILE
 - SANITARY SEWER
 - WATER MAIN
 - ELECTRIC (BURIED)
 - ELECTRIC (OVERHEAD)
 - GAS LINE
 - LIMITS OF DISTURBANCE
 - DRAINAGE & UTILITY EASEMENTS
 - PROPOSED STORM MANHOLE/CATCH BASIN
 - STORM FLARED END SECTION
 - CLEAN OUT (CO)
 - SANITARY MANHOLE
 - HYDRANT
 - GATE VALVE
 - EXISTING STORM STRUCTURES

- UTILITY KEY NOTES**
- OLSON EX. ROOF DOWNSPOUT - REPLACE/NEW CONCRETE SPLASH PAD
 - OLSON EX. ROOF DOWNSPOUT - AREA DRAIN BELOW (OR DIRECT PIPE CONNECTION, PER OWNER) - SEE DETAIL
 - N/A
 - OLSON ROOF DOWNSPOUT/EX. CHAINS EAST ENTRY - SURFACE DRAIN TO AREA DRAIN, SEE ARCH / PLUMB
 - GULLIXSON EX. ROOF DOWNSPOUT NORTH - REPLACE/NEW CONCRETE SPLASH PAD, SEE ARCH / PLUMB
 - GULLIXSON - ABANDON ROOF PIPE - FOR REFERENCE
 - RAIN GARDEN (BIO-FILTRATION)- SEE DETAIL FOR DRAIN TILE
 - PERMEABLE PAVERS
 - TUNNEL UTILITIES(INSIDE) - ABANDON/REMOVE, SEE ELEC
 - GAS - GULLIXSON CONNECTION - 2" GAS SERVICE, VERIFY WITH PROVIDER
 - KAS CONNECTION - CONNECT TO EXISTING GAS MAIN, FIELD VERIFY, VERIFY WITH PROVIDER
 - COMMUNICATIONS - OLSON TO GULLIXSON - F/O (2)2" CONDUIT PVC SCH. 40 AND LINE, PULL BOXES, SEE ELEC
 - COMMUNICATIONS - OLSON WEST SERVICE - F/O (2)3" CONDUIT PVC SCH. 40 & LINE, SEE ELEC
 - ELECTRICAL - OLSON GENERATOR - (3)2" CONDUIT PVC SCH. 40 & LINE, SEE ELEC.
 - ELECTRICAL - OLSON GENERATOR, SEE ELEC / MECH / STRUC
 - SEWAGE TRENCH DRAIN - SEE DETAIL
 - UNDERGROUND INFILTRATION BMP - REQUIRES EXCAVATION OF TEST PIT 5' BELOW BOTTOM OF BMP. SOILS MUST BE VERIFIED BY PROJECT ENGINEER. SOILS INCONSISTENT WITH DESIGN MAY REQUIRE 5' OVER-EXCAVATION AND BACKFILL WITH SAND.
 - CONNECT TO EXISTING STRUCTURE
 - CONNECT TO EXISTING STORM SEWER
 - DRY BASIN
 - EXISTING ELECTRICAL TRANSFORMER - TO REMAIN
 - EXISTING STEAM PIPES (ABANDON) - TO REMAIN, UNLESS OWNER APPROVES REMOVAL
 - EXISTING OLSON HVAC UNIT - TO REMAIN
 - RELOCATED GULLIXSON HVAC UNITS (6 ITEMS)
- UTILITY NOTES**
- THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C/ASCE 38-2, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."
 - CONTACT GOPHER STATE ONE CALL PER STATE STATUTES FOR PUBLIC UTILITY LOCATES PRIOR TO ANY EXCAVATION.
 - THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL UTILITY LOCATES. THE CONTRACTOR MUST HIRE A PRIVATE UTILITY LOCATING SERVICE TO LOCATE PRIVATE UTILITIES IN THE CONSTRUCTION AREA PRIOR TO ANY EXCAVATION.
 - EXISTING SURVEY INFORMATION HAS BEEN PROVIDED BY OTHERS. THE ARCHITECT OR ENGINEER CAN NOT BE HELD RESPONSIBLE FOR INACCURACIES RELATED TO THE SURVEY INFORMATION.
 - FIELD VERIFY ALL UTILITY INVERTS PRIOR TO BEGINNING UTILITY INSTALLATIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES FROM THE PLAN FOR RESOLUTION PRIOR TO BEGINNING UTILITY INSTALLATIONS.
 - COMPLY WITH ALL LOCAL AND STATE REQUIREMENTS FOR UTILITY INSTALLATION AND TESTING.
 - OBTAIN ALL PERMITS OR APPROVALS FROM LOCAL UTILITY OWNERS PRIOR TO BEGINNING UTILITY INSTALLATIONS. NOTIFY UTILITY OWNERS OF THE START OF CONSTRUCTION PRIOR TO BEGINNING.
 - MAINTAIN 8.0' OF COVER ON ALL NEW WATERMAIN.
 - PIPE LENGTHS THAT MAY BE SHOWN ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
 - COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION OF SERVICE CONNECTIONS AND CONTINUATION OF SERVICES WITHIN THE BUILDING PRIOR TO THE START OF UTILITY INSTALLATION.
 - ADJUST, OR ARRANGE TO BE ADJUSTED BY UTILITY OWNER, ALL STRUCTURES, PUBLIC AND PRIVATE, TO PROPOSED GRADES WHERE DISTURBED. COMPLY WITH ALL REQUIREMENTS OF UTILITY OWNERS. STRUCTURES BEING RESET IN PAVED AREAS TO MEET OWNER'S REQUIREMENTS FOR TRAFFIC LOADING.
 - VERIFY ALL CONNECTIONS TO EXISTING UTILITY SERVICES PRIOR TO CONSTRUCTION.
 - ALL EXCAVATIONS MUST COMPLY WITH THE REQUIREMENTS OF OSHA 29 CFR, PART 1926, SUBPART P, EXCAVATIONS AND TRENCHING. THIS DOCUMENT STATES THAT EXCAVATION SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 - DRAINILE LOCATIONS AND QUANTITIES ARE APPROXIMATE AS ILLUSTRATED. FIELD VERIFY FINAL LOCATIONS.
 - RELOCATE EXISTING UTILITIES AS NEEDED.
- PLANS INDICATE ROOF DRAINAGE IN THE FORM OF GUTTERS TO OPEN DOWNSPOUTS DISCHARGING INTO A GRATE AT GRADE, PIPED UNDERGROUND TO THE STORM SEWER. ALL PRIMARY ROOF DISCHARGE SHALL BE CONNECTED TO THE STORM SEWER. MPC 4714.1101.1
- SEWER REPAIR PERMIT: PLUMBING CONTRACTOR TO OBTAIN "REPAIR PERMITS" FROM PUBLIC WORKS FOR PROPOSED MODIFICATION TO THE EXISTING STORM SEWER CONNECTIONS. CALL ST. PAUL PW PERMIT DESK (651-266-6234) FOR INFORMATION ON OBTAINING THIS PERMIT.
- IF THE PIPE INSTALLED HAS LESS THAN 2.0% SLOPE, LASER EQUIPMENT IS REQUIRED.

- ST. PAUL REGIONAL WATER SERVICE NOTES**
- WATER SERVICES TO BE INSTALLED ACCORDING TO SPRWS "STANDARDS FOR THE INSTALLATION OF WATER MAINS."
 - MAINTAIN 8 FEET OF COVER OVER ALL WATER MAINS AND SERVICES.
 - PIPE MATERIAL FOR 8" DUCTILE IRON PIPE MUST BE CLASS 52. PIPE MATERIAL FOR 6" AND 4" DUCTILE IRON PIPE MUST BE CLASS 53. THE EXTERIOR OF DUCTILE IRON PIPE SHALL BE COATED WITH A LAYER OF ARC-SPRAYED ZINC PER ISO 8179. THE INTERIOR CEMENT MORTAR LINING SHALL BE APPLIED WITHOUT ASPHALT SEAL COAT.
 - PIPE MUST BE WRAPPED IN V-BIO POLYWRAP ENCASEMENT.
 - MAINTAIN 3 FEET VERTICAL SEPARATION BETWEEN WATER AND SEWER PIPES OR A 12 INCH SEPARATION WITH 4 INCH HIGH DENSITY INSULATION PER SPRWS STANDARD PLATE D-10 FOR TYPICAL WATER MAIN OFFSETS.
 - REFER TO SPRWS "STANDARDS FOR THE INSTALLATION OF WATER MAINS" STANDARD PLATE D-11 FOR RESTRAINED PIPE REQUIREMENT.
 - ALL WATER SERVICE VALVE BOXES WITHIN CONSTRUCTION AREA MUST BE EXPOSED AND BROUGHT TO GRADE UPON COMPLETION OF CONSTRUCTION.
 - ALL PIPE WORK UNDER OF PROPERTY TO BE PERFORMED BY A PLUMBER LICENSED BY THE STATE OF MINNESOTA AND CERTIFIED BY THE CITY OF ST. PAUL. SPRWS REQUIRES SEPARATE OUTSIDE AND INSIDE PLUMBING PERMITS FOR EACH NEW WATER SERVICE.
 - THE CONTRACTOR PROVIDING EXCAVATION IS RESPONSIBLE FOR OBTAINING ALL EXCAVATION AND OBSTRUCTION PERMITS REQUIRED BY ANY GOVERNING AUTHORITY.
 - SAINT PAUL REGIONAL WATER SERVICES PLUMBING INSPECTORS WILL INSPECT THE WATERMAIN WORK WITHIN PROPERTY LIMITS THAT IS PERFORMED BY THE OWNER'S UTILITY CONTRACTOR. CONTRACTOR TO COORDINATE WITH SPRWS TO ENSURE INSPECTION OCCURS.

WATERMAIN CROSSING CONFLICTS

- A** CROSSING A (WM STA: 1+52)
FG ELEVATION: 965.00
8 FT WM DEPTH: 957.00
STORM INV. ELEVATION: 957.66
- OFFSET WATERMAIN (PER DETAIL) TO MAX ELEVATION OF 956.50 AT STORM CROSSING TO ACHIEVE 12" VERTICAL SEPARATION BETWEEN STORM PIPE AND WATERMAIN AND INSTALL 4 INCH HIGH DENSITY INSULATION PER SPRWS STANDARD PLATE D-10.
- B** CROSSING B (WM STA: 2+00/2+02)
FG ELEVATION: 966.50
8 FT WM DEPTH: 958.50
STORM INV. ELEVATION: 958.52
- OFFSET WATERMAIN (PER DETAIL) TO MAX ELEVATION OF 957.36 AT STORM CROSSING TO ACHIEVE 12" VERTICAL SEPARATION BETWEEN STORM PIPE AND WATERMAIN AND INSTALL 4 INCH HIGH DENSITY INSULATION PER SPRWS STANDARD PLATE D-10.

MATCH LINE - SEE SHEET #C5.1

MATCH LINE - SEE SHEET #C5.1

SITE LIGHTING AND ELECTRICAL LINES TO BE FIELD LOCATED FOR ABANDON, REMOVAL, RELOCATION, OR NEW, BASED ON NEW SITE LIGHTING LOCATIONS. NOT SHOWN, SEE ELEC

RELOCATE EXISTING UTILITY LINES AS REQUIRED; FIELD VERIFY, NOT NECESSARILY SHOWN

LUTHER SEMINARY

2375 Como Avenue
St. Paul, MN 55108

Gensler

706 2nd Avenue South
Suite 1200
Minneapolis, MN 55402
United States

Tel 612.333.1113
Fax 612.333.1997

DUNHAM

Dunham Engineering
50 South Sixth Street, Suite 1100
Minneapolis, MN 55402-1540
Tel 612.465.7550
Fax 612.465.7551

BKBM

BKBM Engineers
6120 Earle Brown Dr, Suite 700
Minneapolis, MN 55430
Tel 763.843.0420

SRF

SRF Consulting Group
1 Carlson Parkway North, Suite 150
Minneapolis, MN 55447-4443
Tel 763.249.6796

TEN x TEN

Ten x Ten Studio
575 SE 9th St, Suite 210
Minneapolis, MN 55414
Tel 612.440.8369

THIS DRAWING DEVELOPED BY:
SRF CONSULTING GROUP

Seal / Signature

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 Professional Engineer under the laws of the State of Minnesota.

PRINT NAME: BRADY P. RUTMAN

SIGNATURE:

DATE: JUNE 10, 2019

LICENSE #: 56607

Project Name

LUTHER SEMINARY OLSON CENTER + GULLIXSON HALL

Project Number

30.7644.000 (SRF #11404.00)

Scale

1" = 20'

Description

UTILITY PLAN - NORTH

C5.0

© 2018 Gensler

GOPHER STATE ONE CALL (GSOC)

STATE LAW REQUIRES CONTRACTOR TO CONTACT AND PROVIDE NOTICE TO THE NOTIFICATION CENTER BEFORE BEGINNING ANY EXCAVATION. (REFER TO MINNESOTA STATE STATUTE CHAPTER 216D FOR DETAILS)

BY PHONE: EMERGENCY TICKETS: 866-640-3637
TWIN CITIES METRO: 651-454-0002
GREATER MN AREA: 800-252-1166
NATIONALLY: 811



2375 Como Avenue
St. Paul, MN 55108

Gensler

706 2nd Avenue South
Suite 1200
Minneapolis, MN 55402
United States

Tel 612.333.1113
Fax 612.333.1997



Dunham Engineering
50 South Sixth Street, Suite
1100
Minneapolis, MN 55402-1540
Tel 612.465.7550
Fax 612.465.7551



BKBM Engineers
6120 Earle Brown Dr, Suite
700
Minneapolis, MN 55430
Tel 763.843.0420



SRF Consulting Group
1 Carlson Parkway North,
Suite 150
Minneapolis, MN 55447-4443
Tel 763.249.6796



Ten x Ten Studio
575 SE 9th St, Suite 210
Minneapolis, MN 55414
Tel 612.440.8369

THIS DRAWING DEVELOPED BY:
SRF CONSULTING GROUP

△	Date	Description
1	12/07/18	SD Pricing
2	02/15/19	DD Pricing
3	02/22/19	Site Plan Review & Watershed Submittal
4	05/21/19	Design Team Review
5	06/10/19	Issue for Permit and Construction
6	09/23/19	Site Plan Review/Watershed Resubmittal

Seal / Signature

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 Professional Engineer under the laws of the State of Minnesota.

PRINT NAME: BRADY P. RUTMAN

SIGNATURE:

DATE: JUNE 10, 2019

LICENSE #: 56607

Project Name

LUTHER SEMINARY OLSON CENTER + GULLIXSON HALL

Project Number

30.7644.000 (SRF #11404.00)

Scale

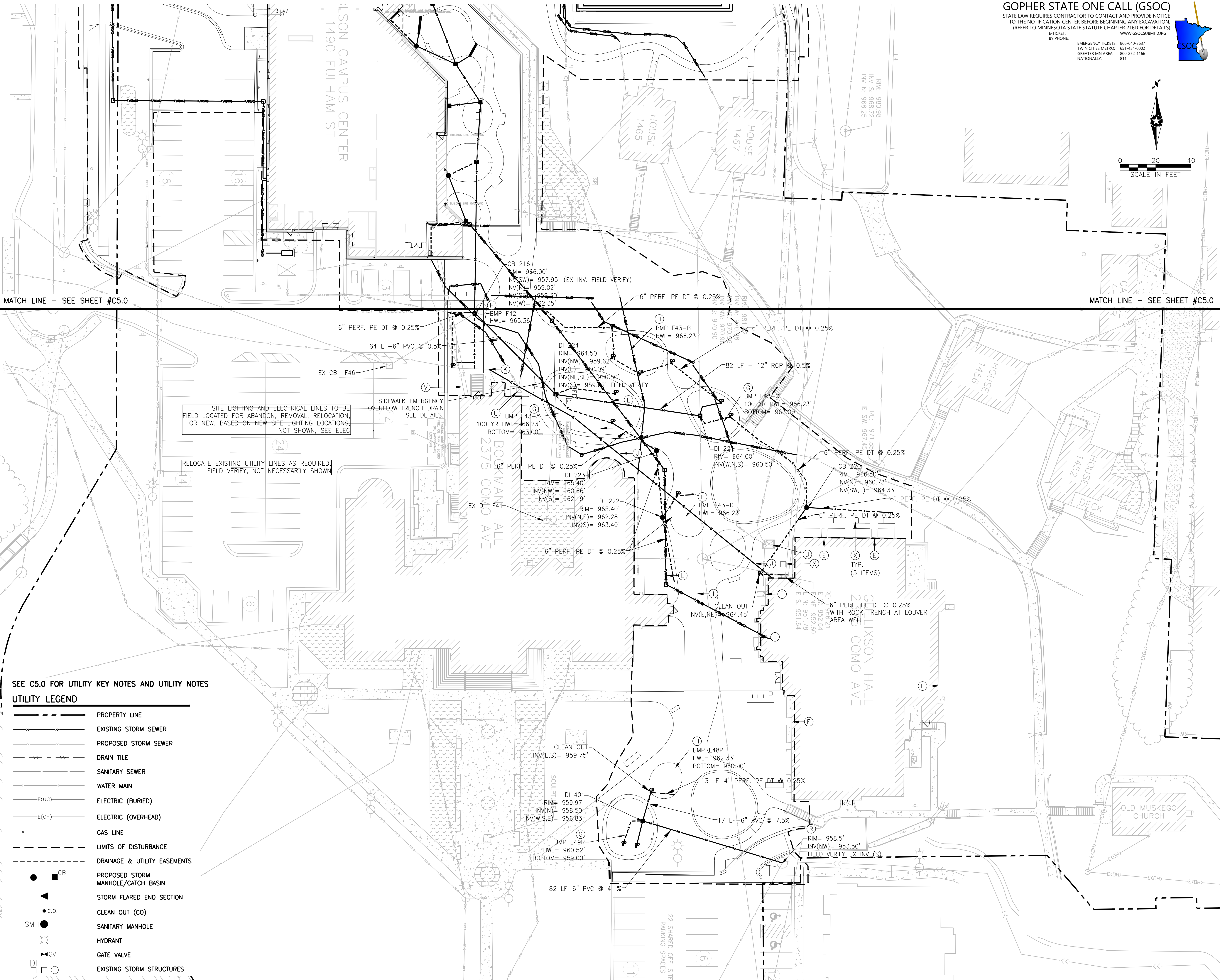
1" = 20'

Description

UTILITY PLAN - SOUTH

C5.1

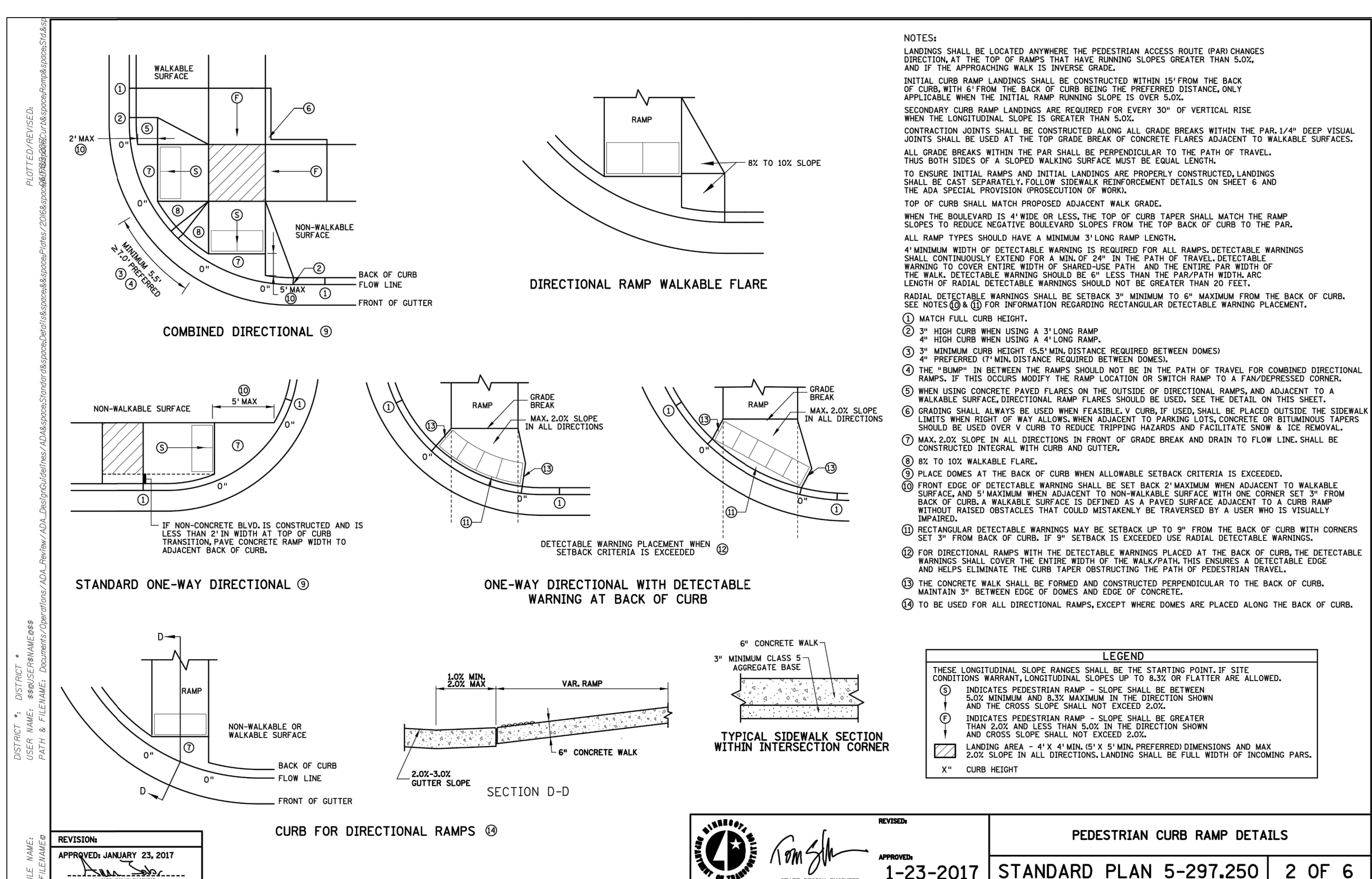
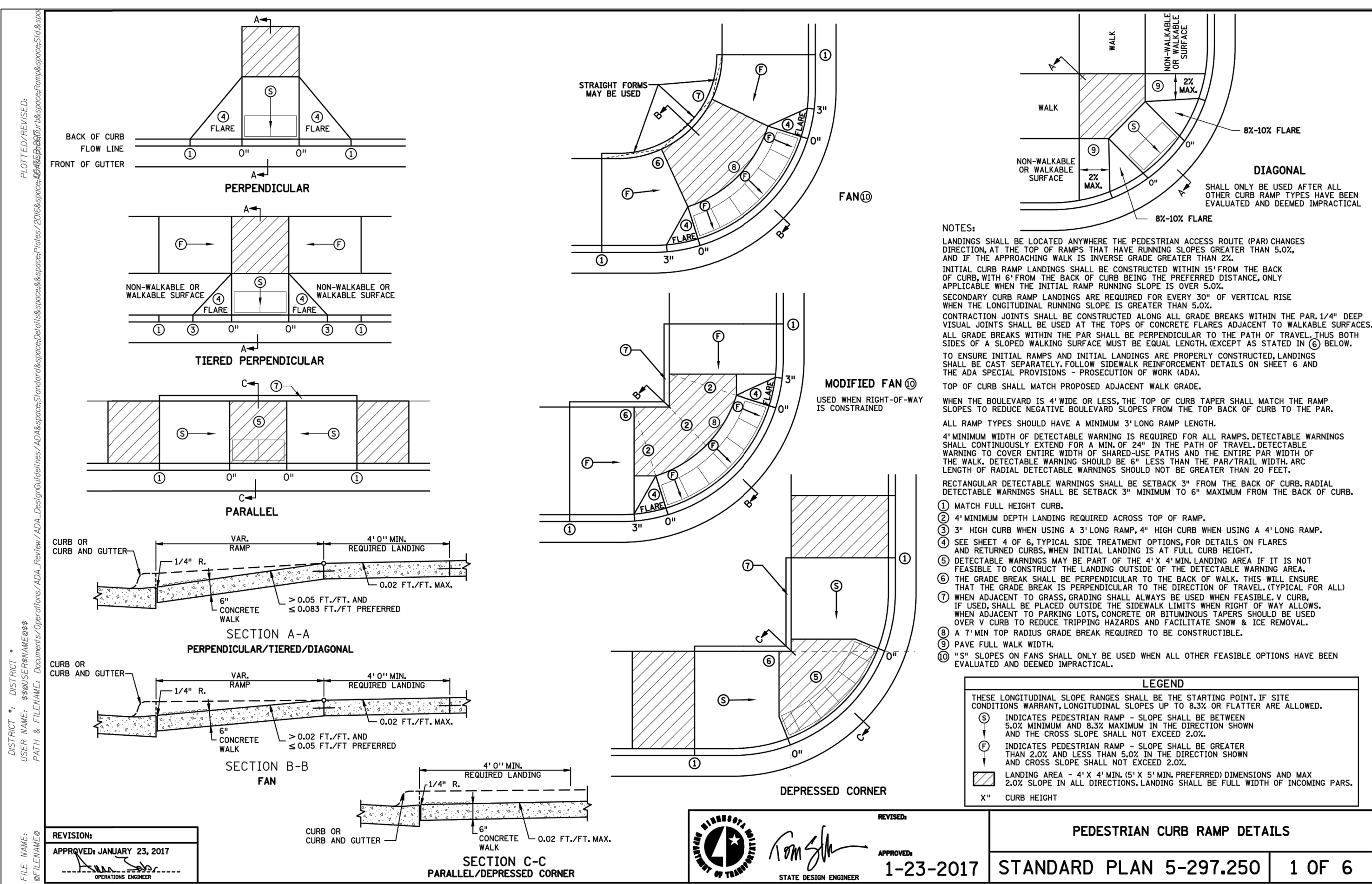
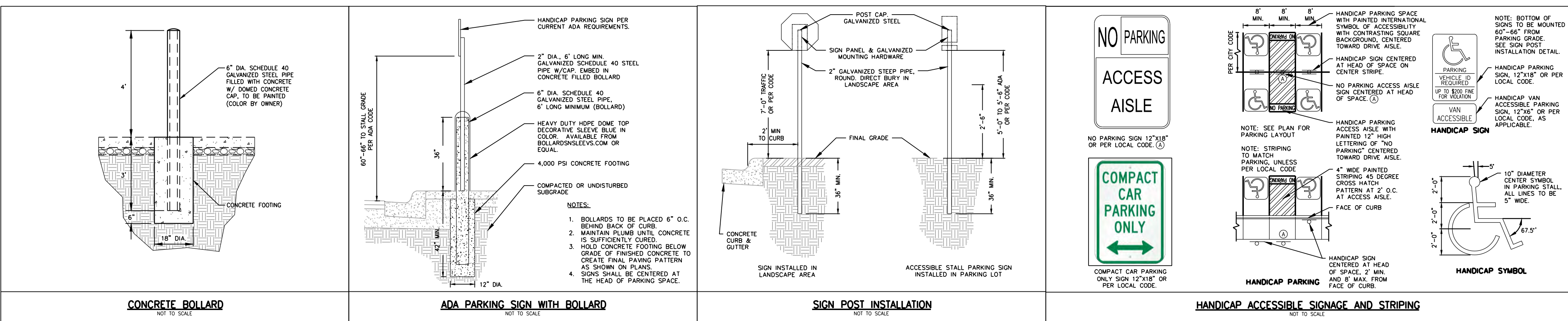
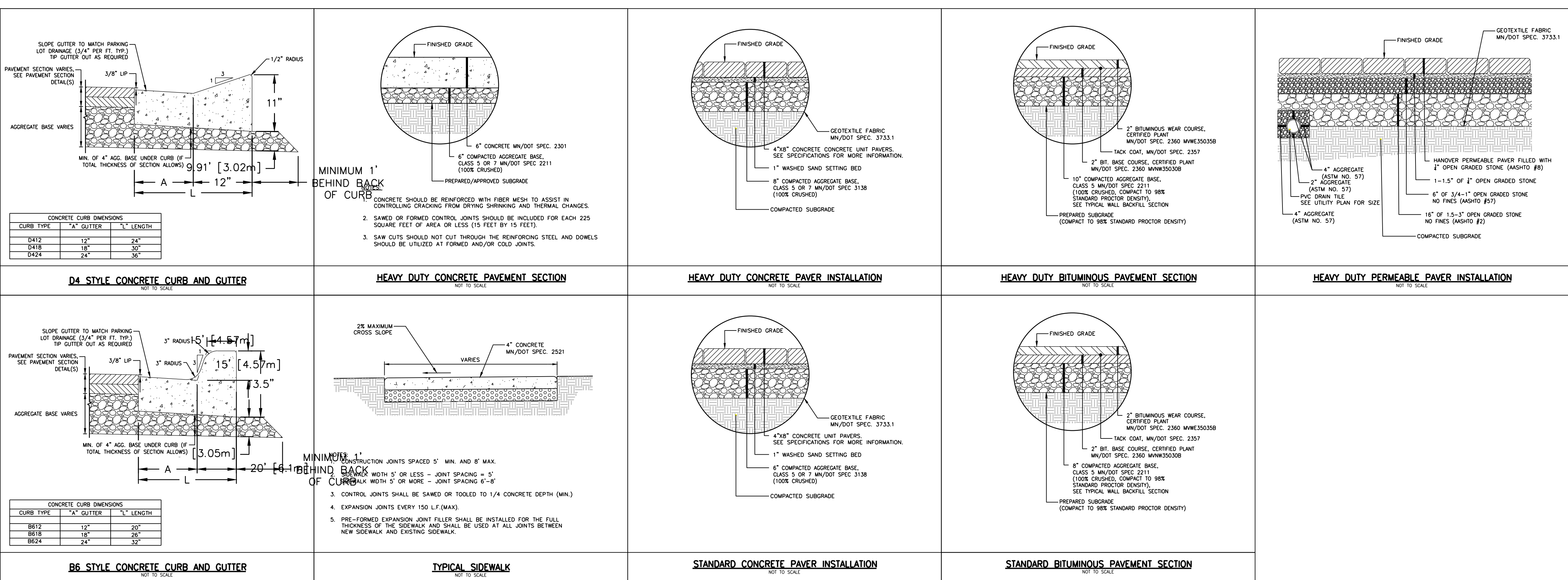
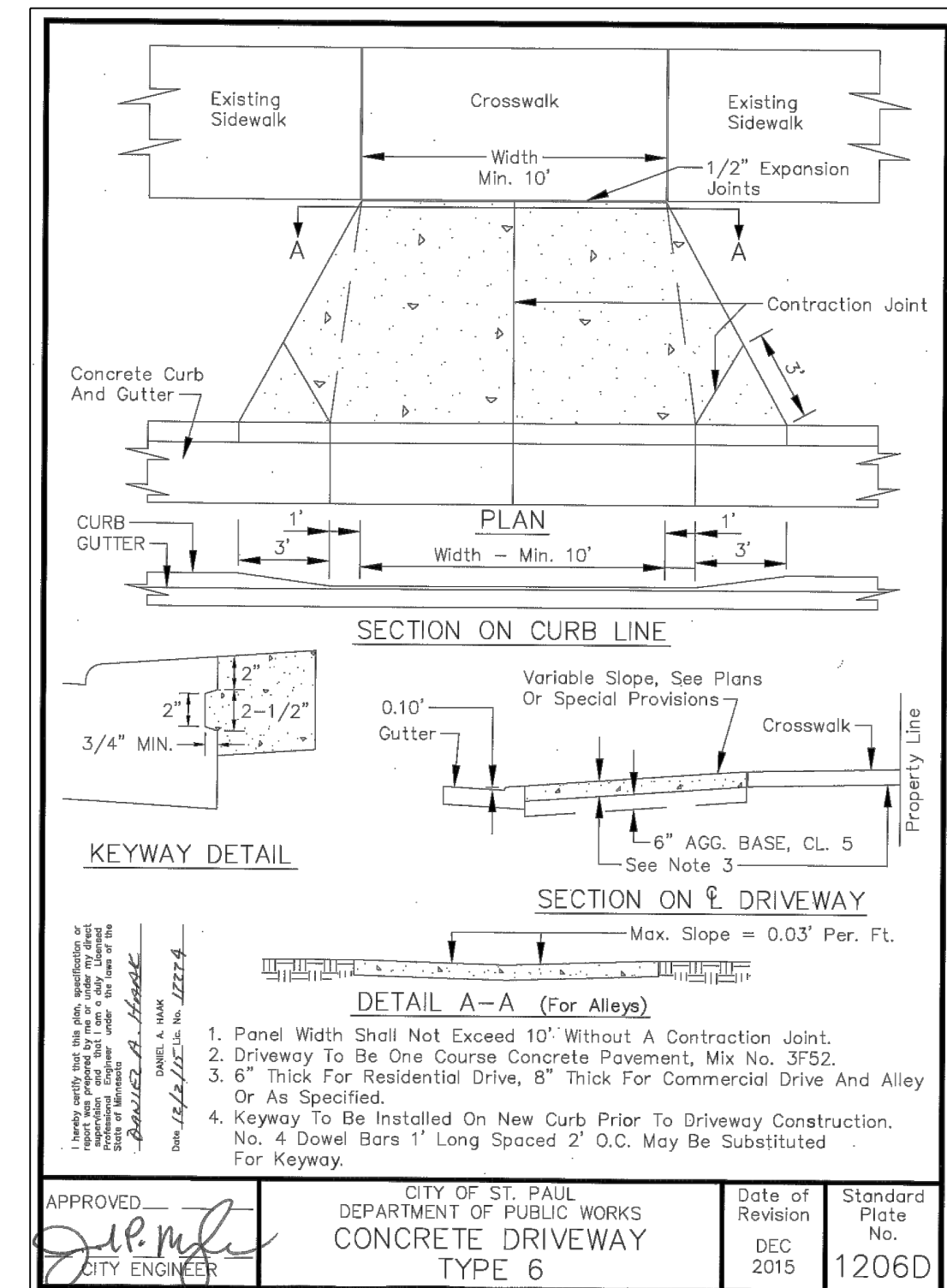
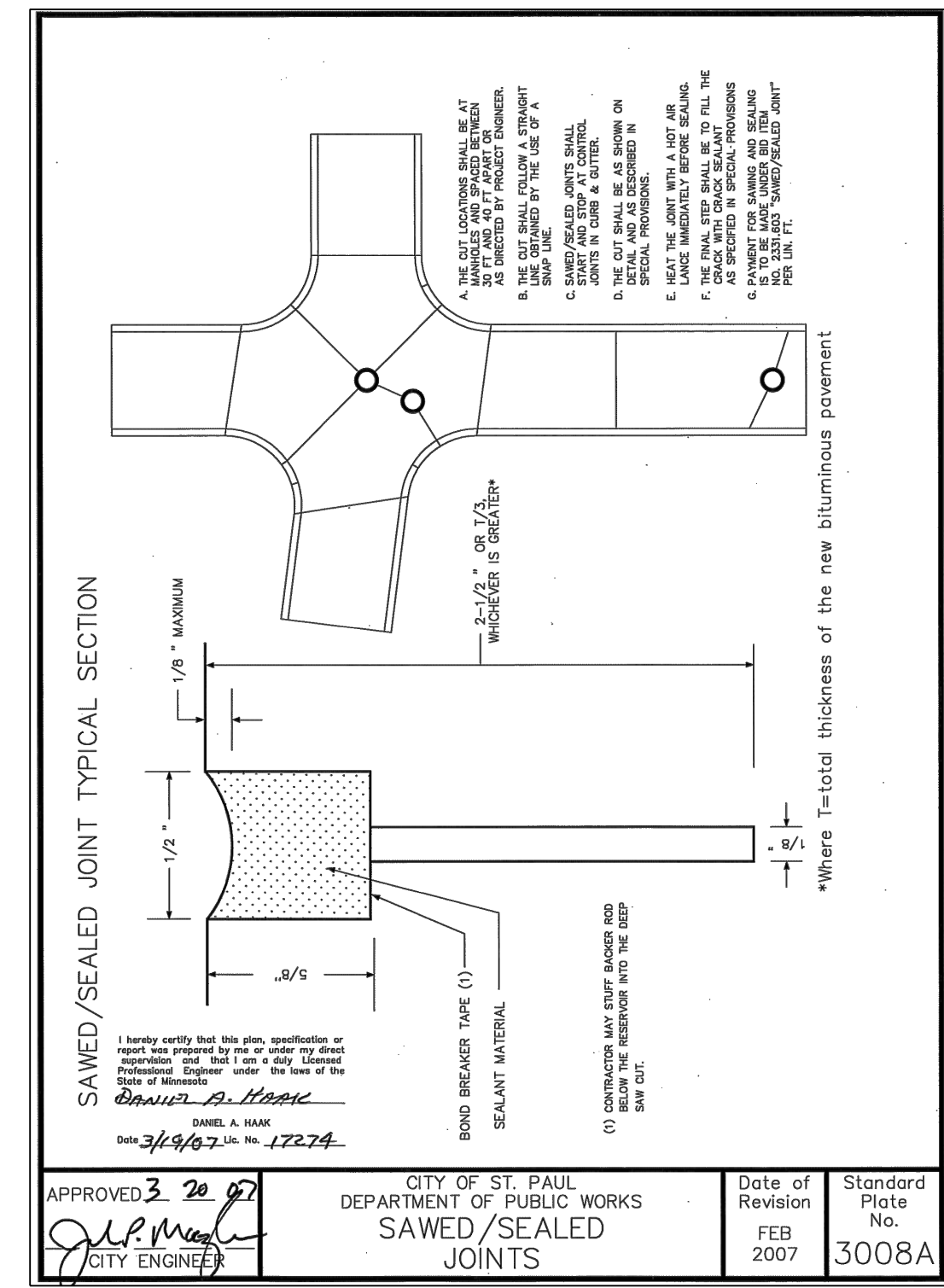
© 2018 Gensler

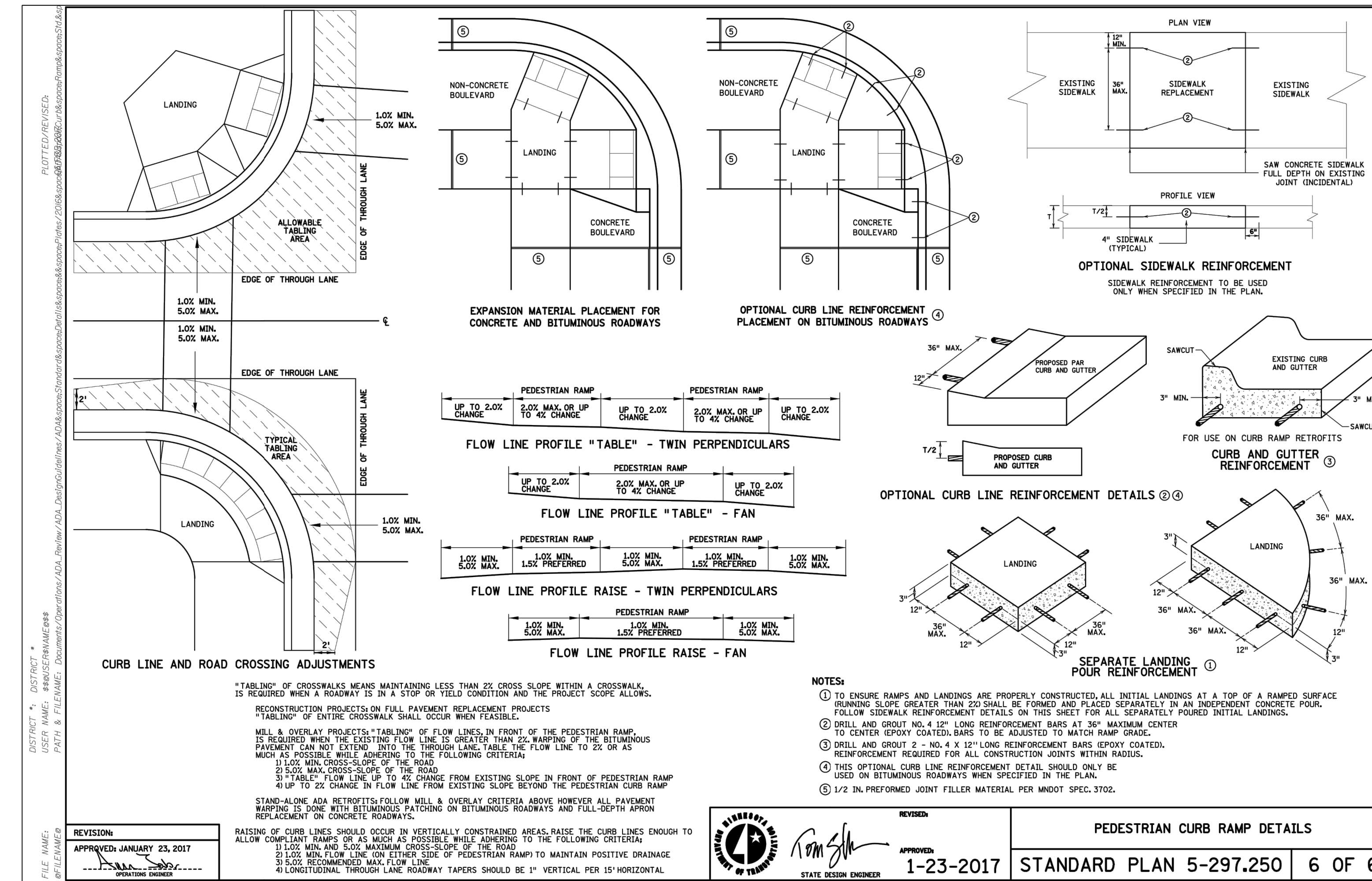
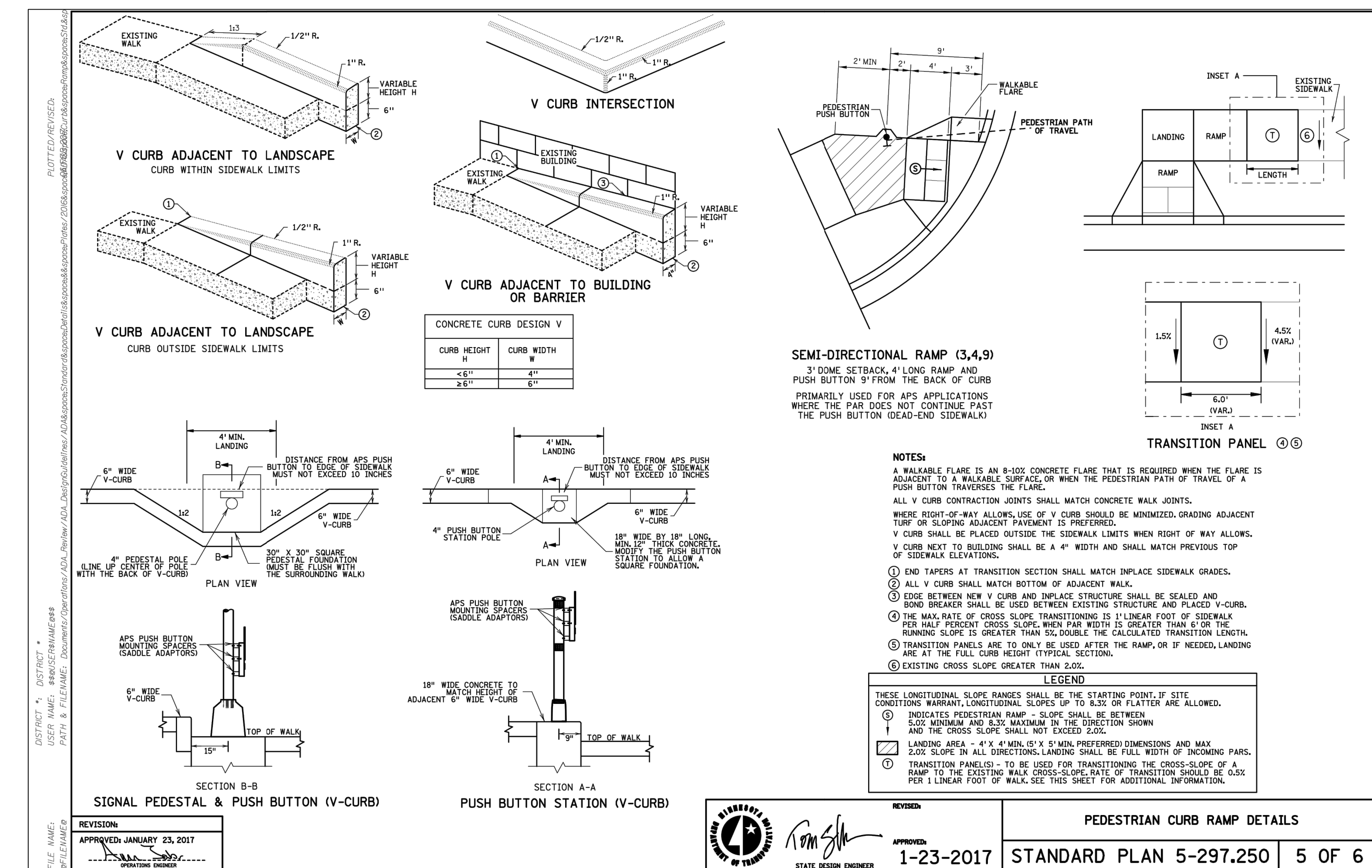
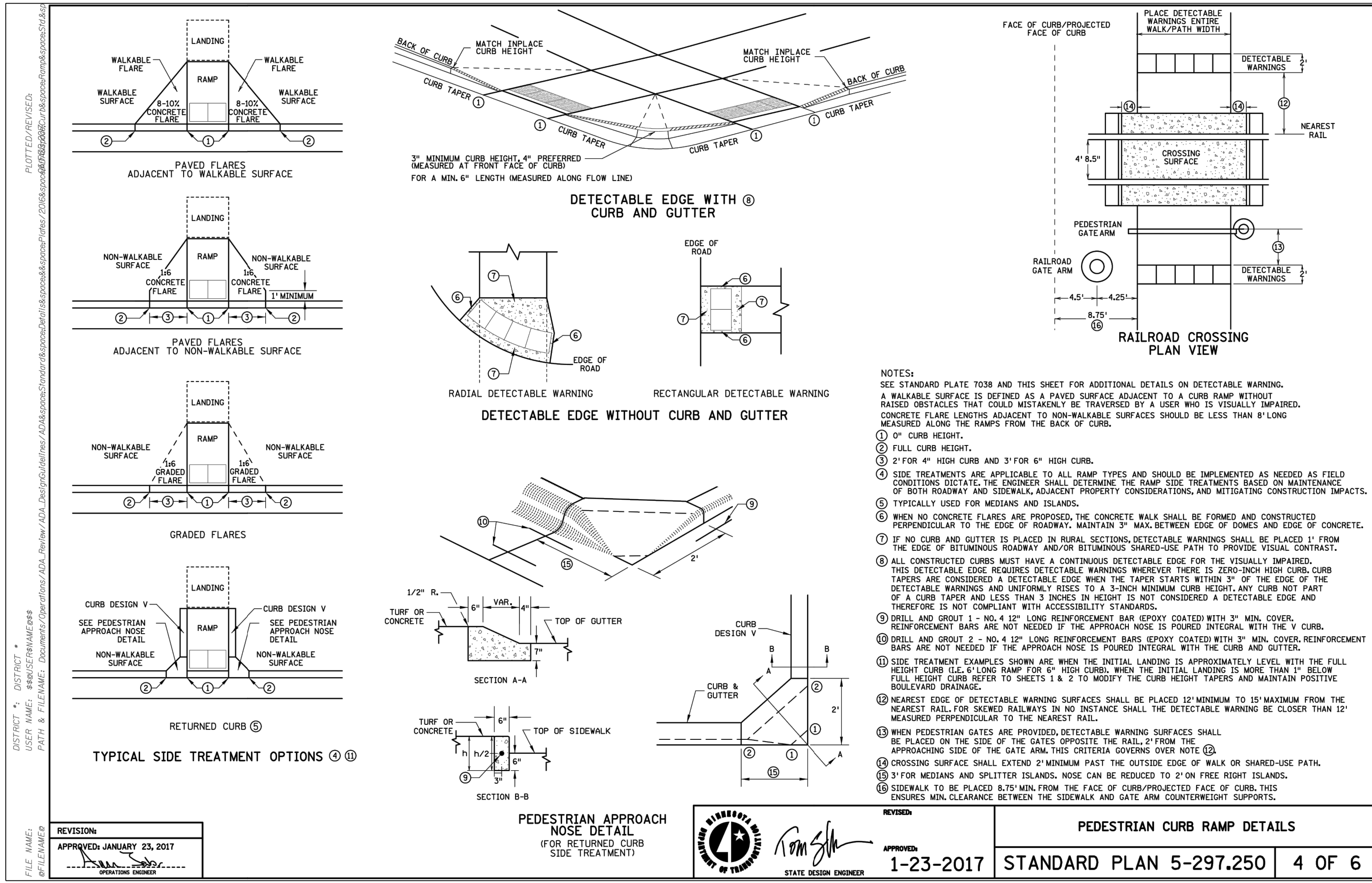
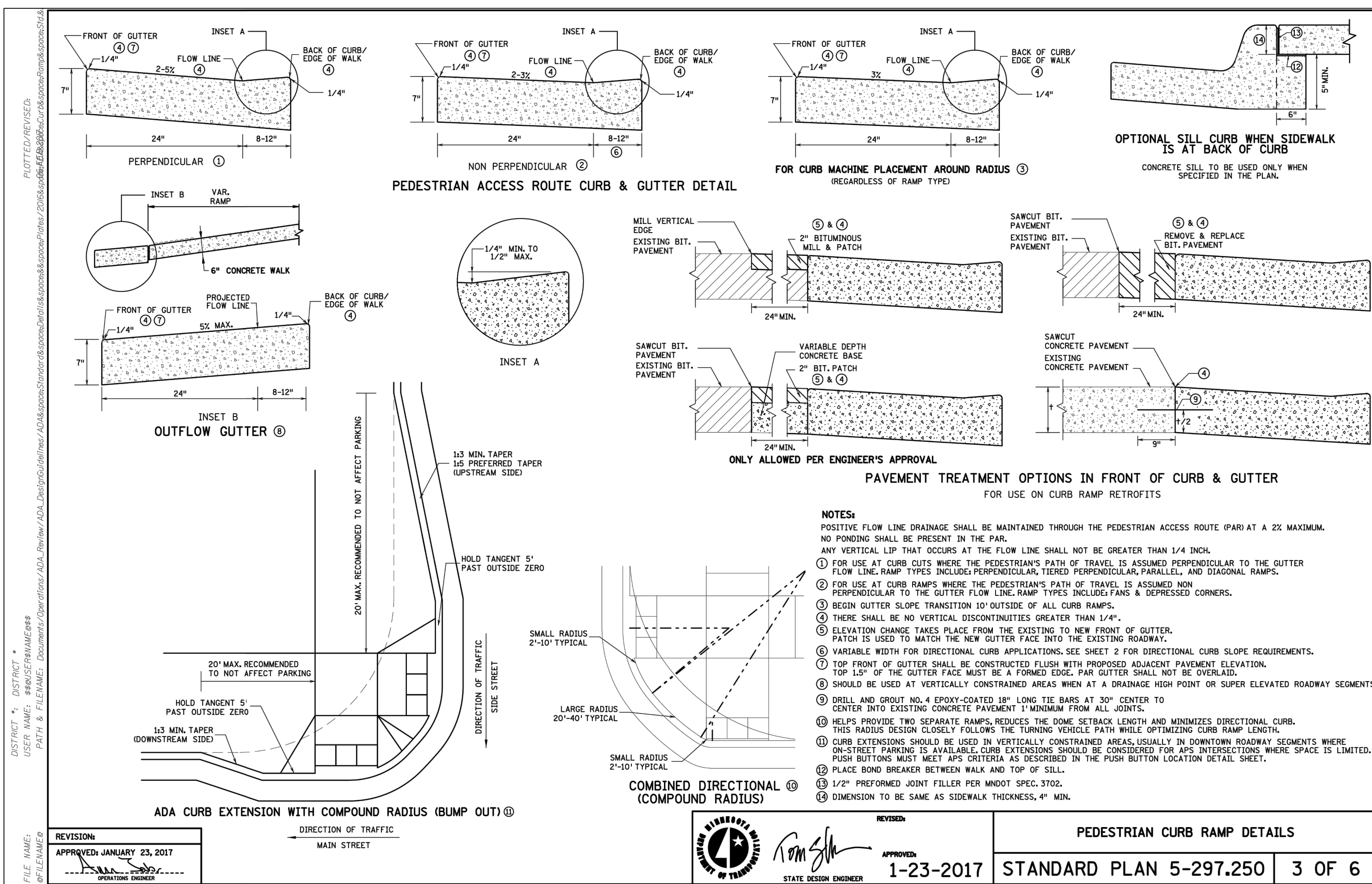


SEE C5.0 FOR UTILITY KEY NOTES AND UTILITY NOTES

UTILITY LEGEND

	PROPERTY LINE
	EXISTING STORM SEWER
	PROPOSED STORM SEWER
	DRAIN TILE
	SANITARY SEWER
	WATER MAIN
	ELECTRIC (BURIED)
	ELECTRIC (OVERHEAD)
	GAS LINE
	LIMITS OF DISTURBANCE
	DRAINAGE & UTILITY EASEMENTS
	PROPOSED STORM MANHOLE/CATCH BASIN
	STORM FLARED END SECTION
	CLEAN OUT (CO)
	SANITARY MANHOLE
	HYDRANT
	GATE VALVE
	EXISTING STORM STRUCTURES





Date	Description
12/07/18	SD Pricing
02/15/19	DD Pricing
02/22/19	Site Plan Review & Watershed Submittal
05/21/19	Design Team Review
06/10/19	Issue for Permit and Construction
09/23/19	Site Plan Review/Watershed Resubmittal

Seal / Signature

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 Professional Engineer under the laws of the State of Minnesota.

PRINT NAME: BRADY P. RUTMAN

SIGNATURE: *Brady P. Rutman*

DATE: JUNE 10, 2019

LICENSE #: 56607

Project Name

LUTHER SEMINARY OLSON CENTER + GULLIXSON HALL

Project Number

30.7644.000 (SRF #11404.00)

Scale

1" = 20'

Description

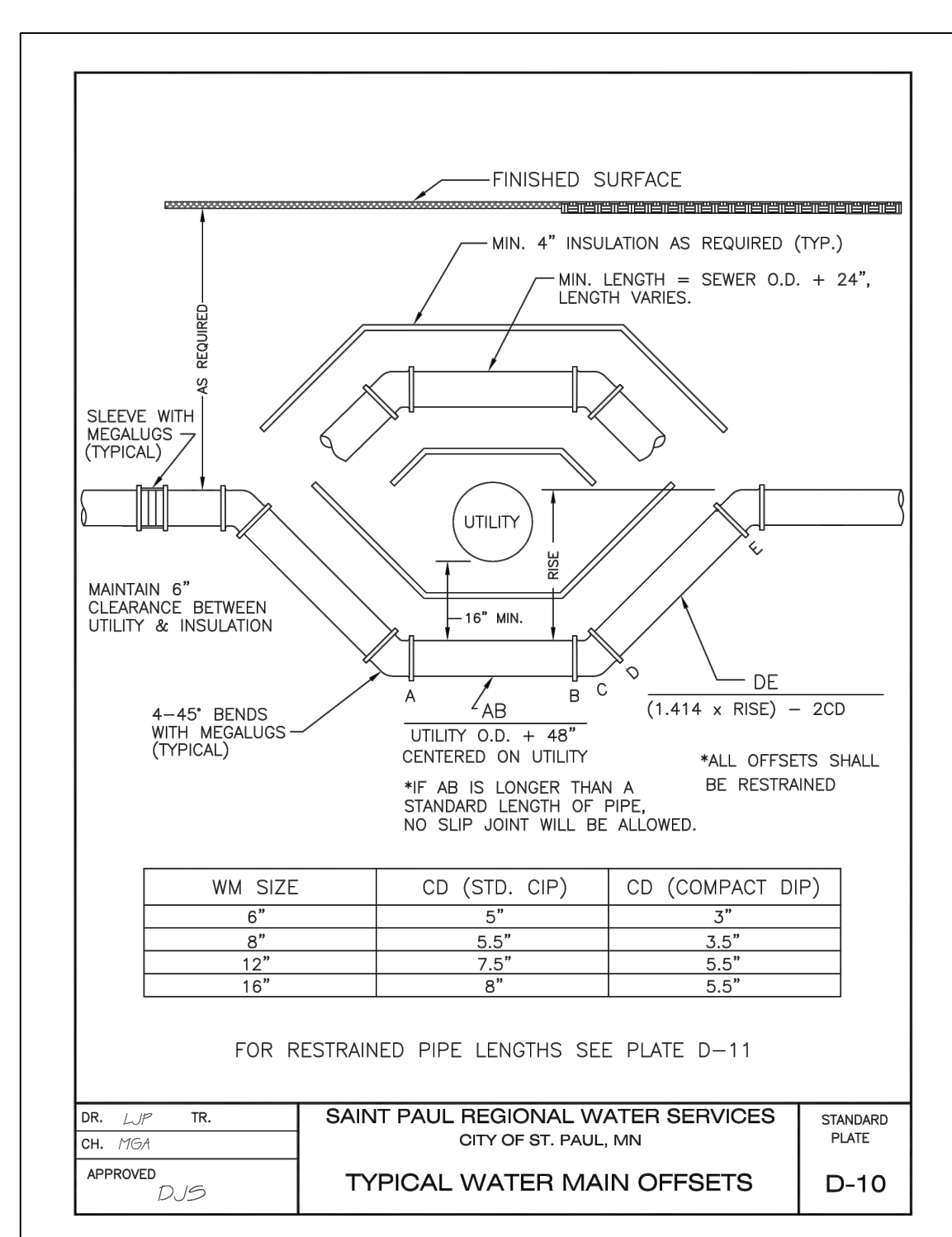
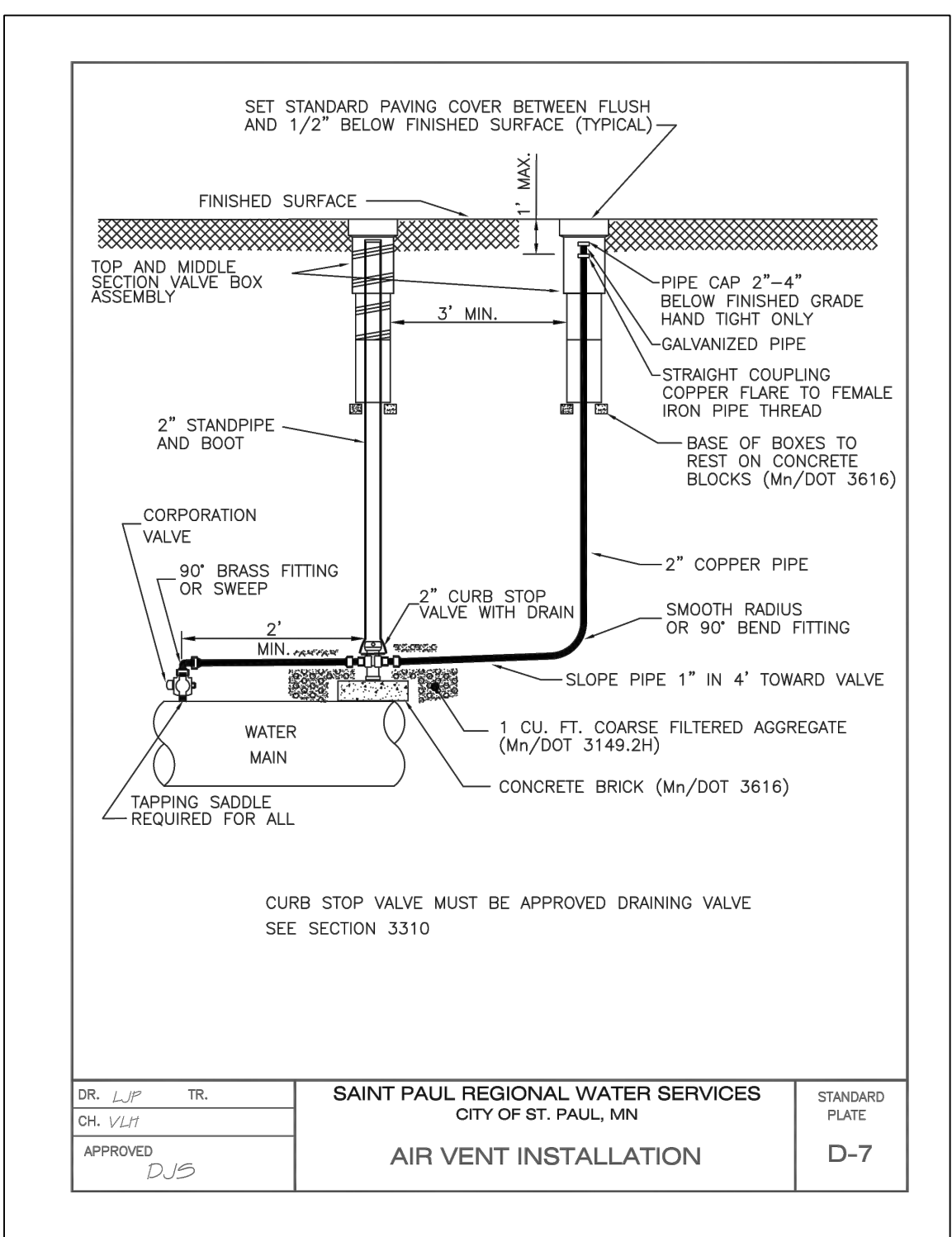
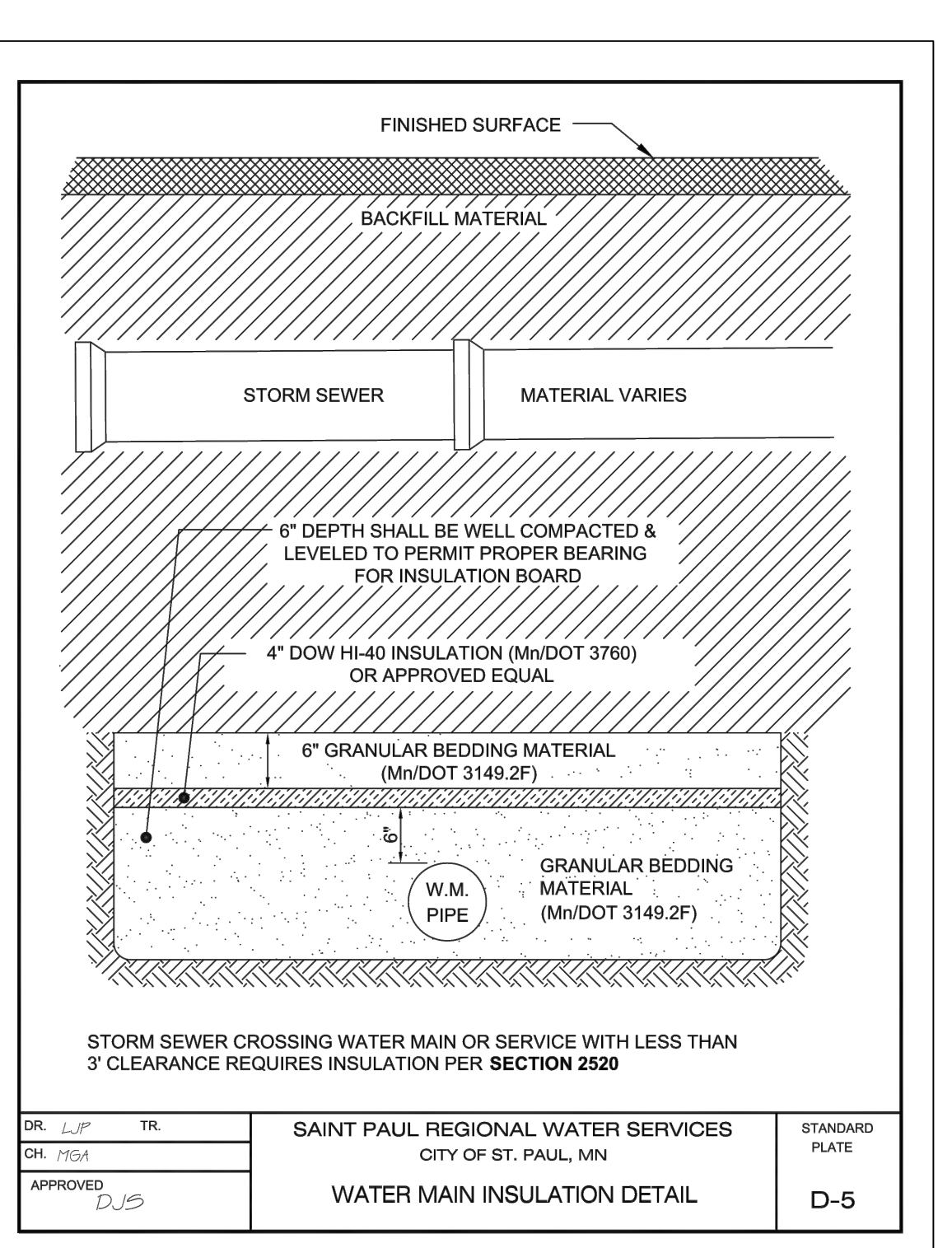
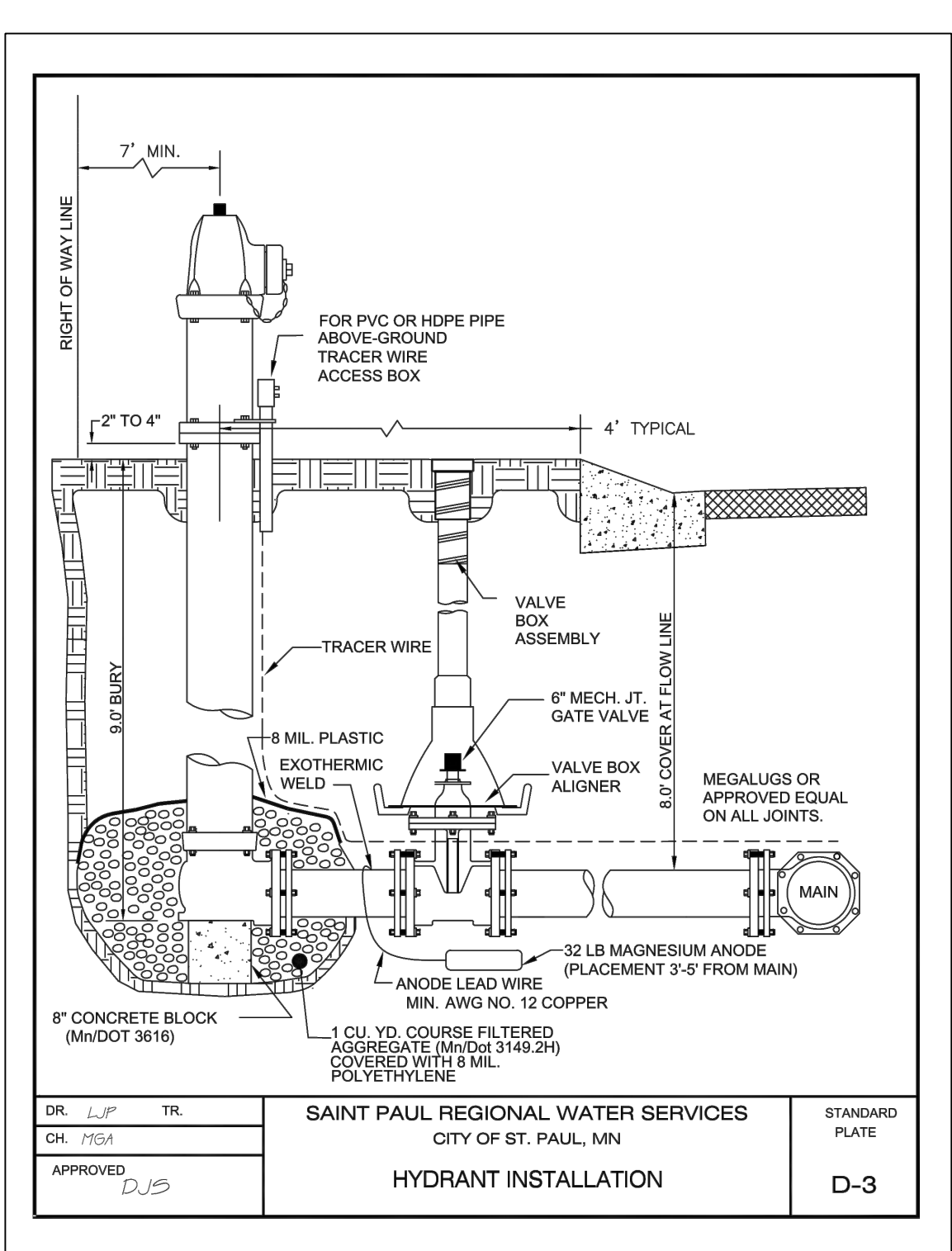
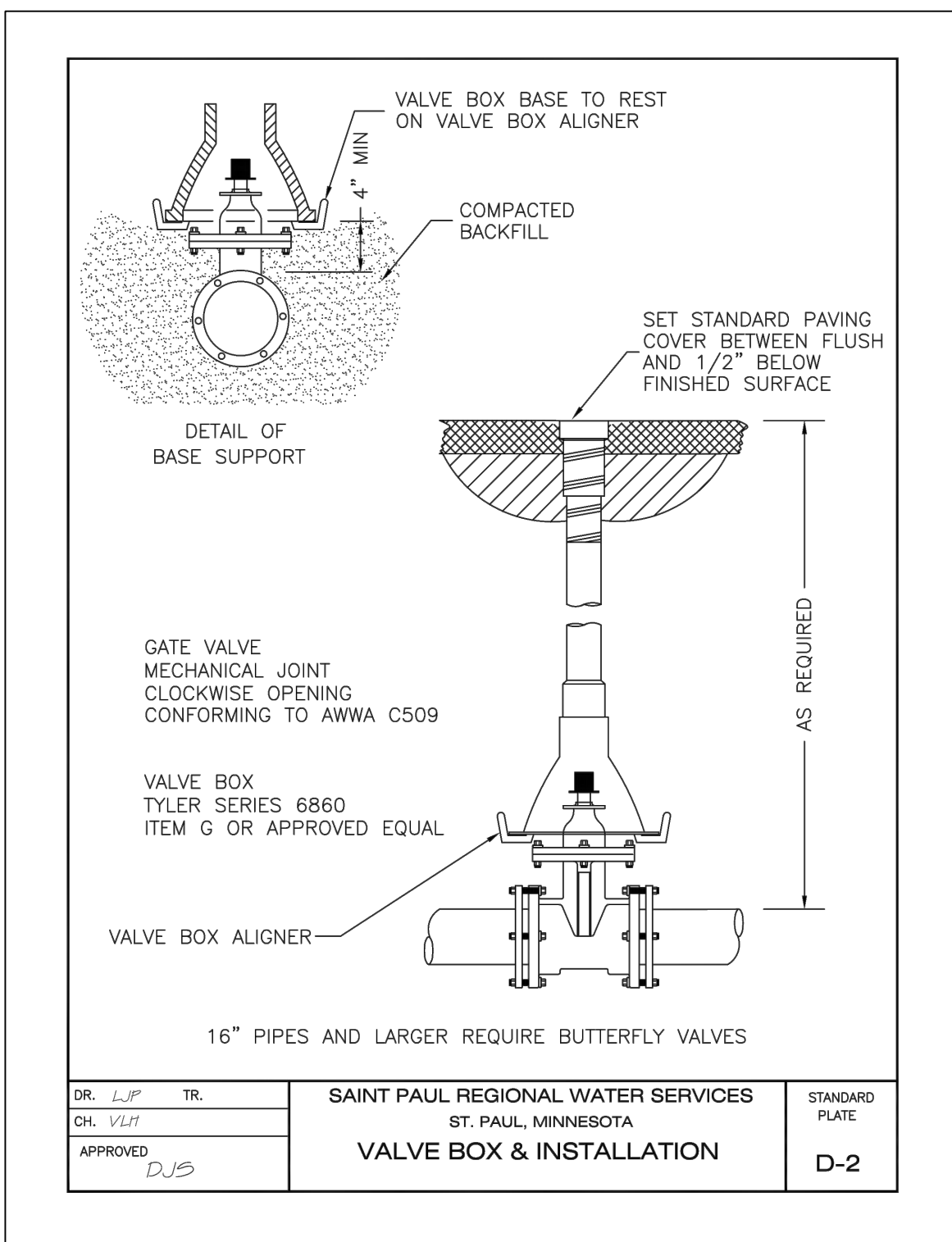
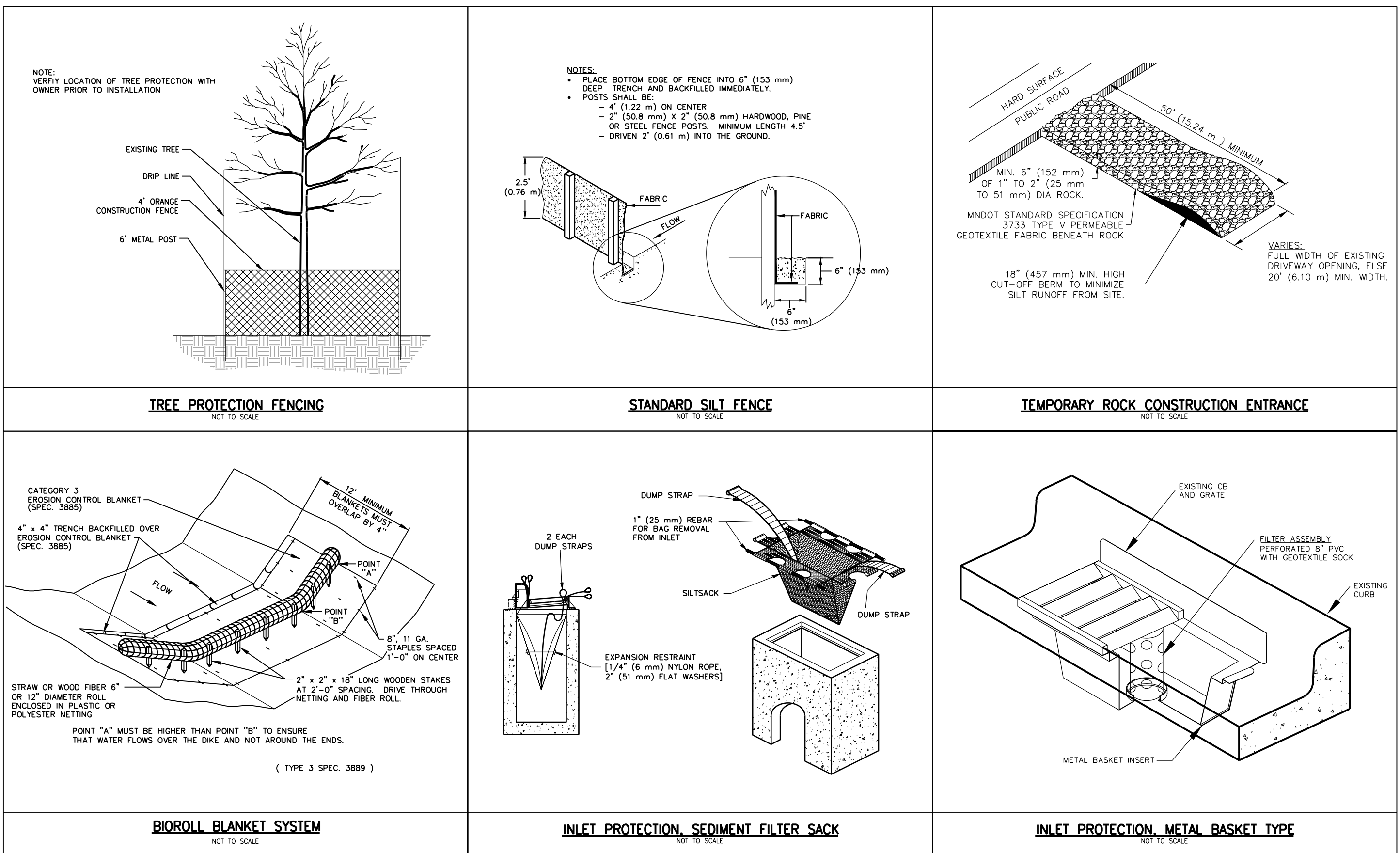
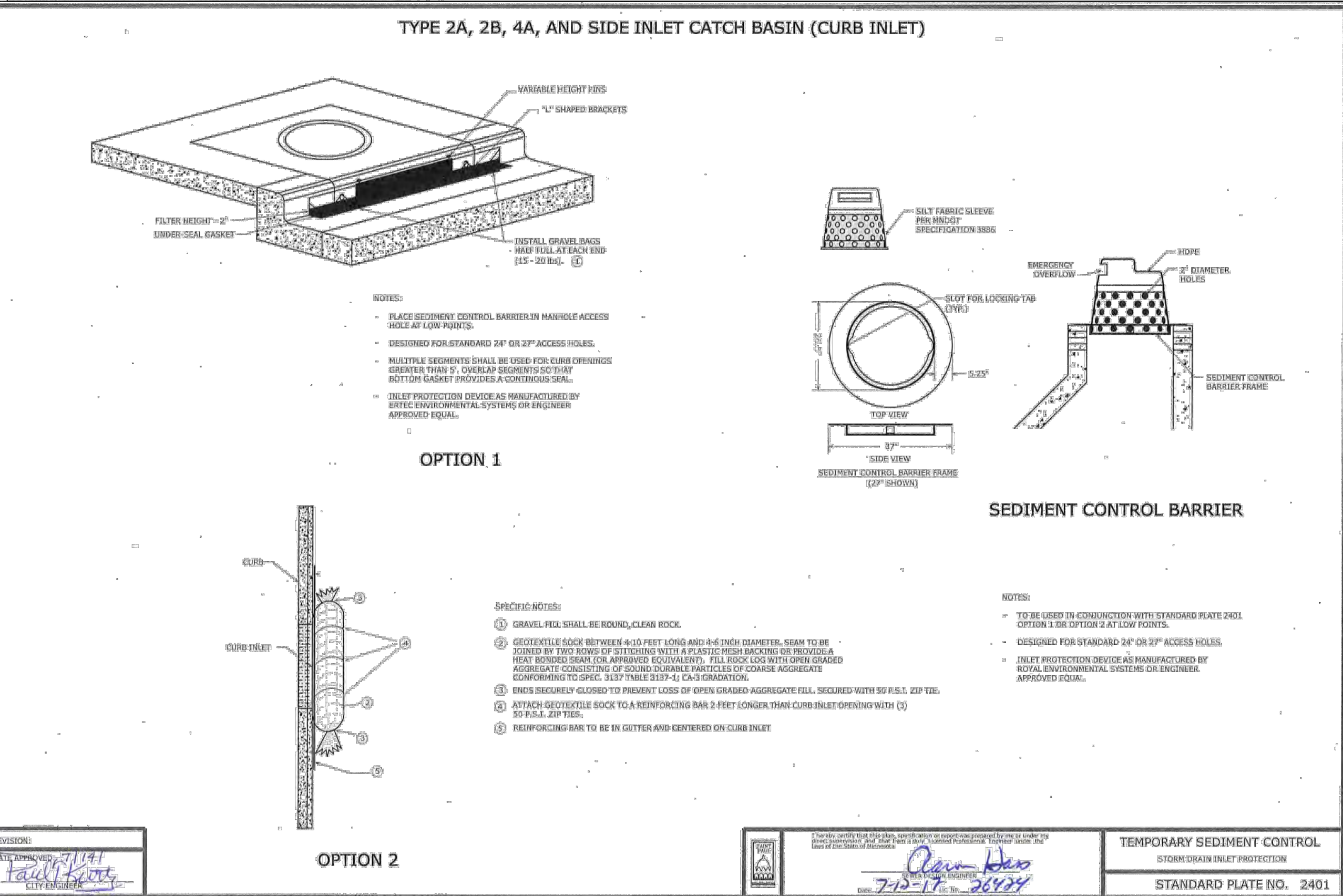
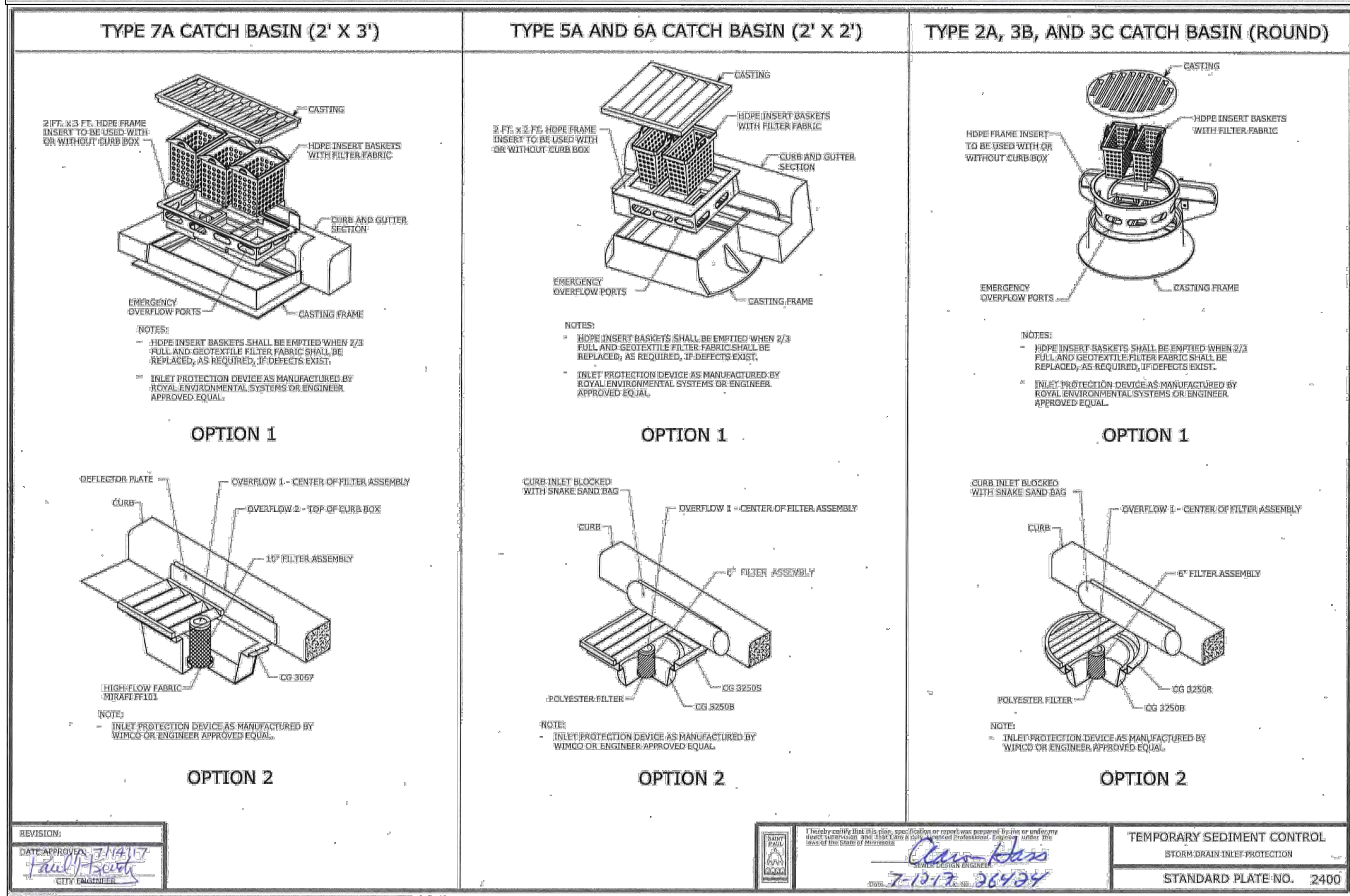
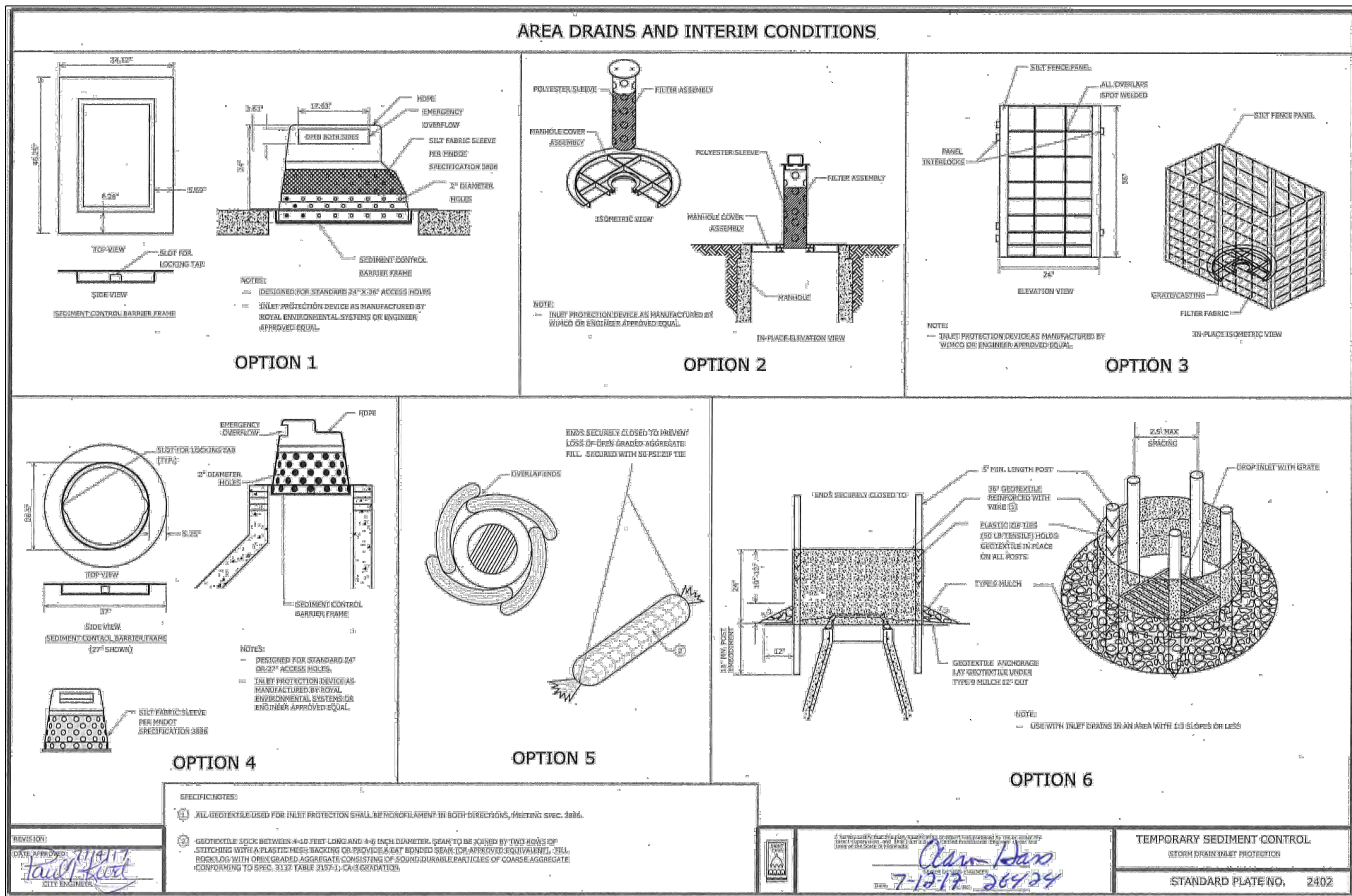
CIVIL DETAILS

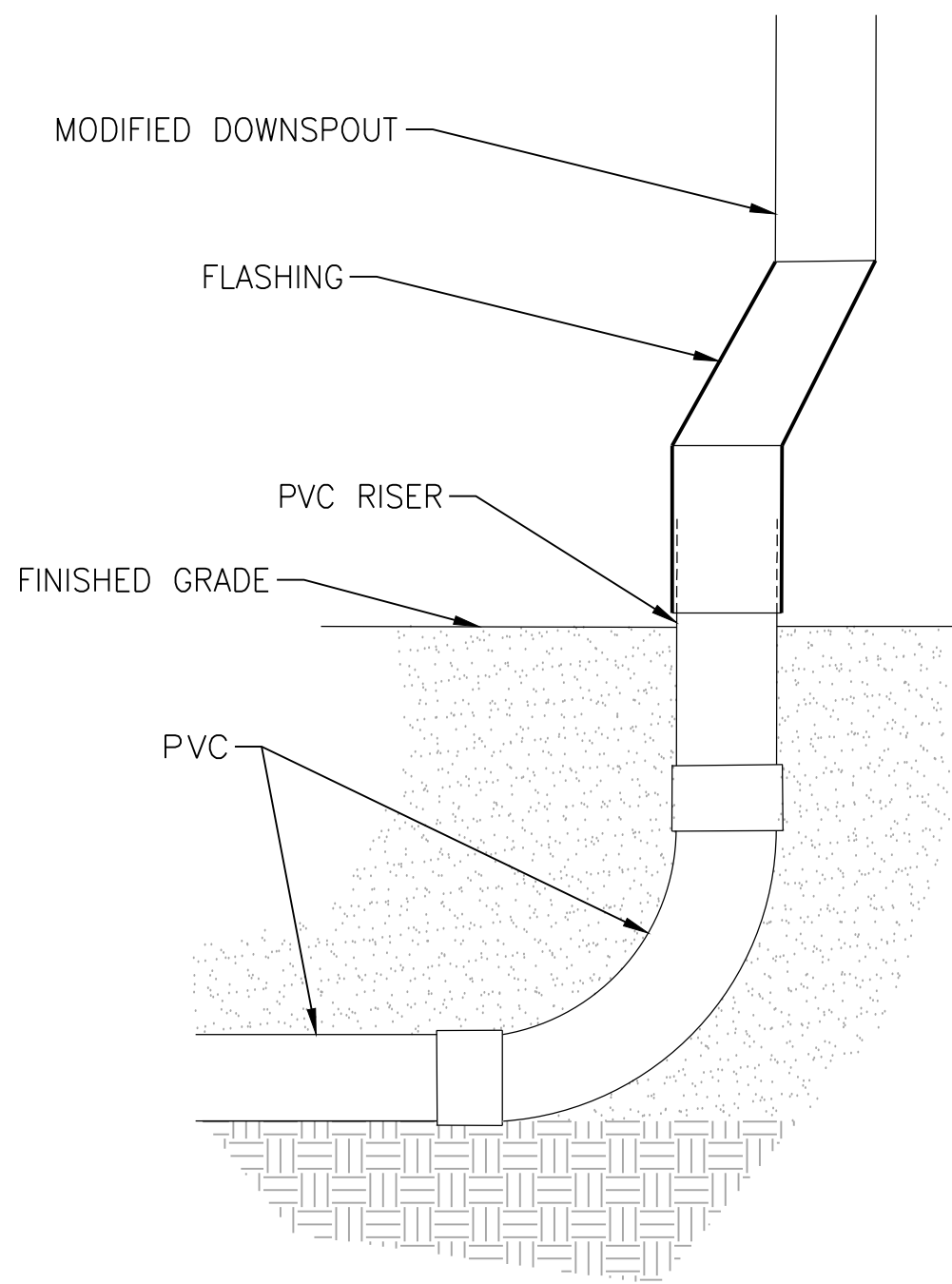
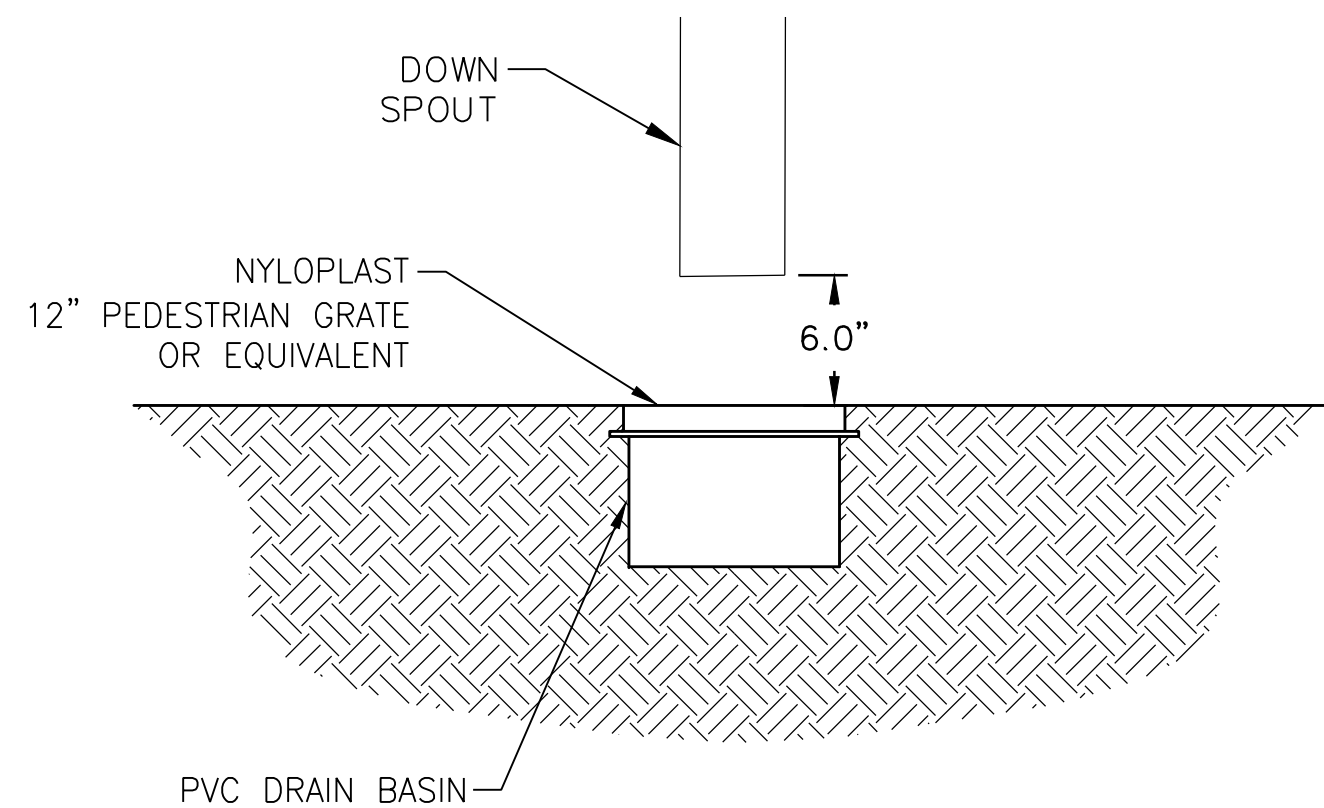
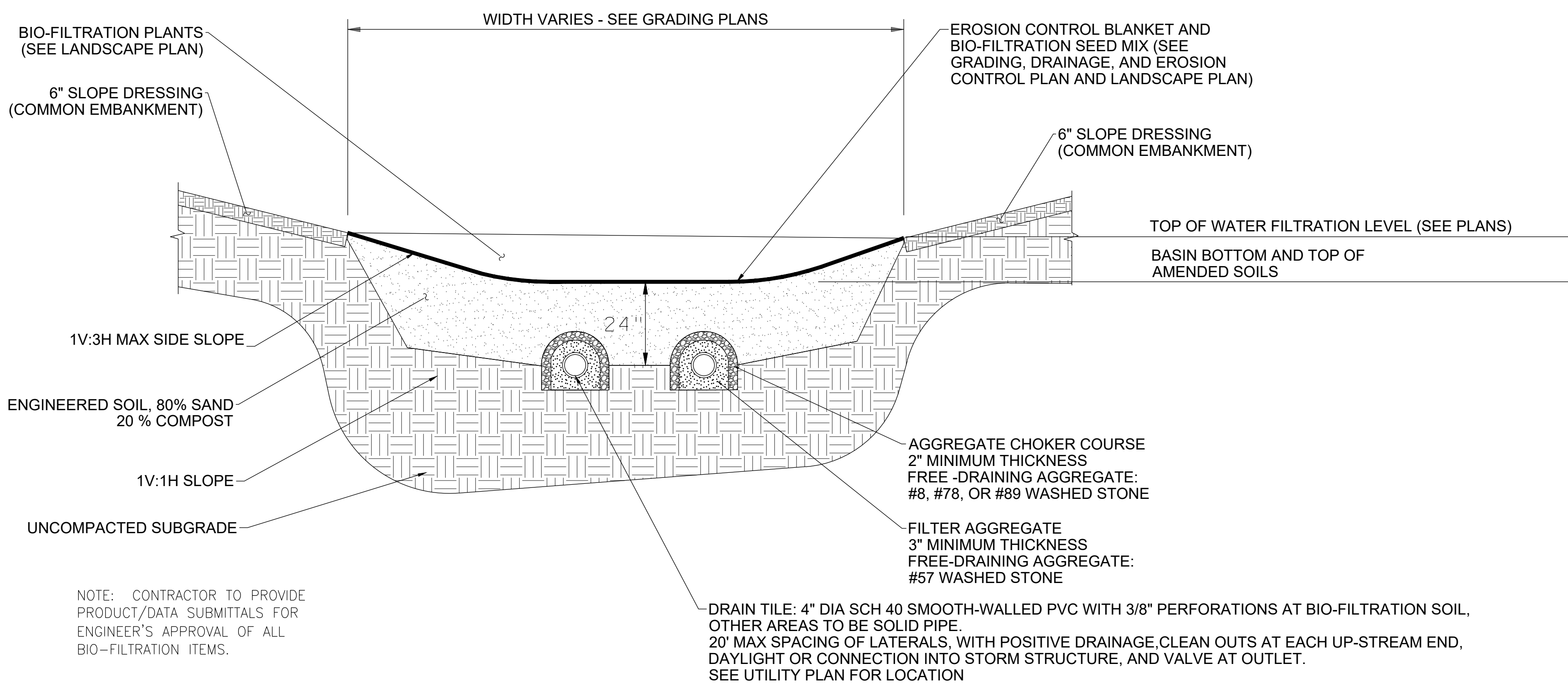
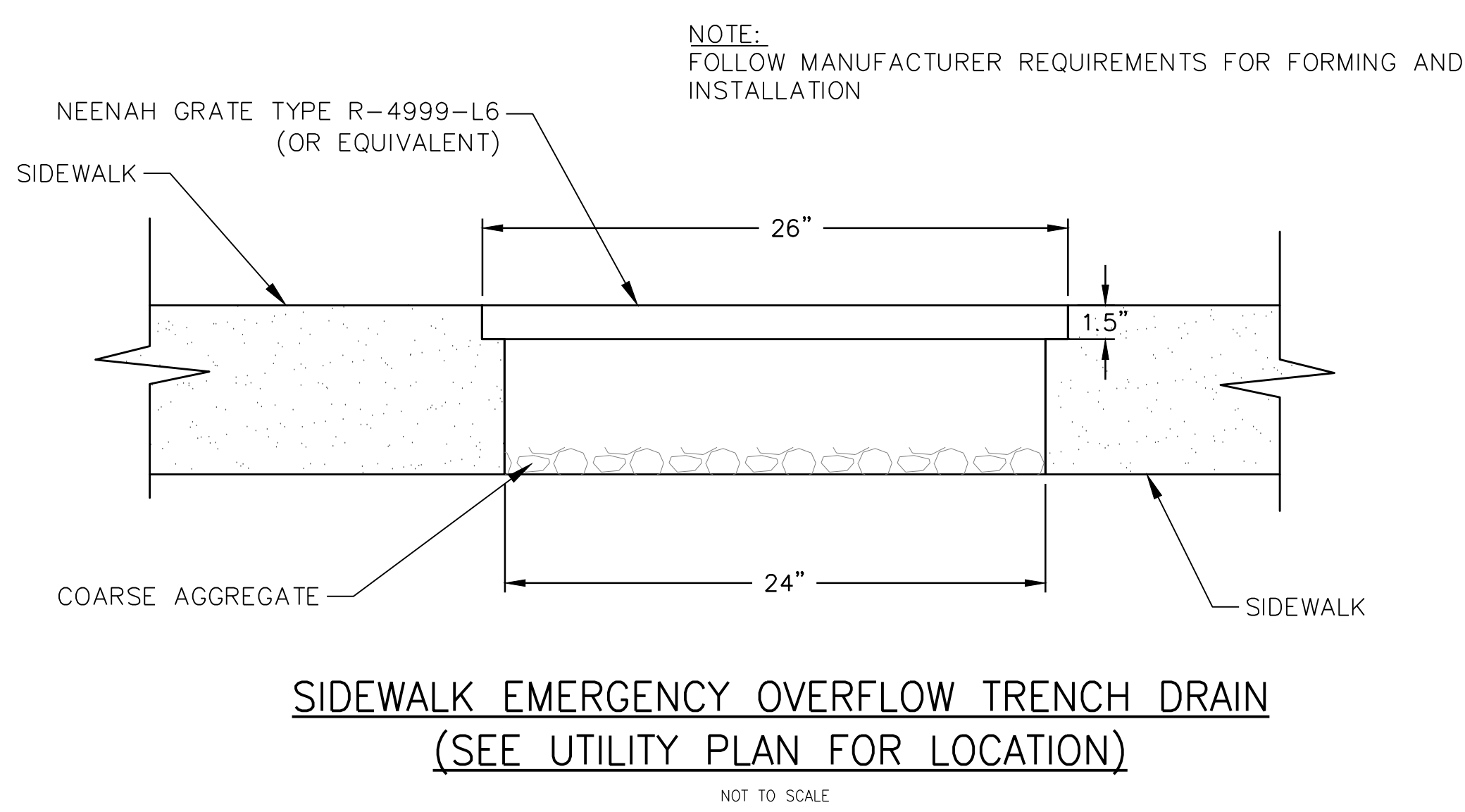
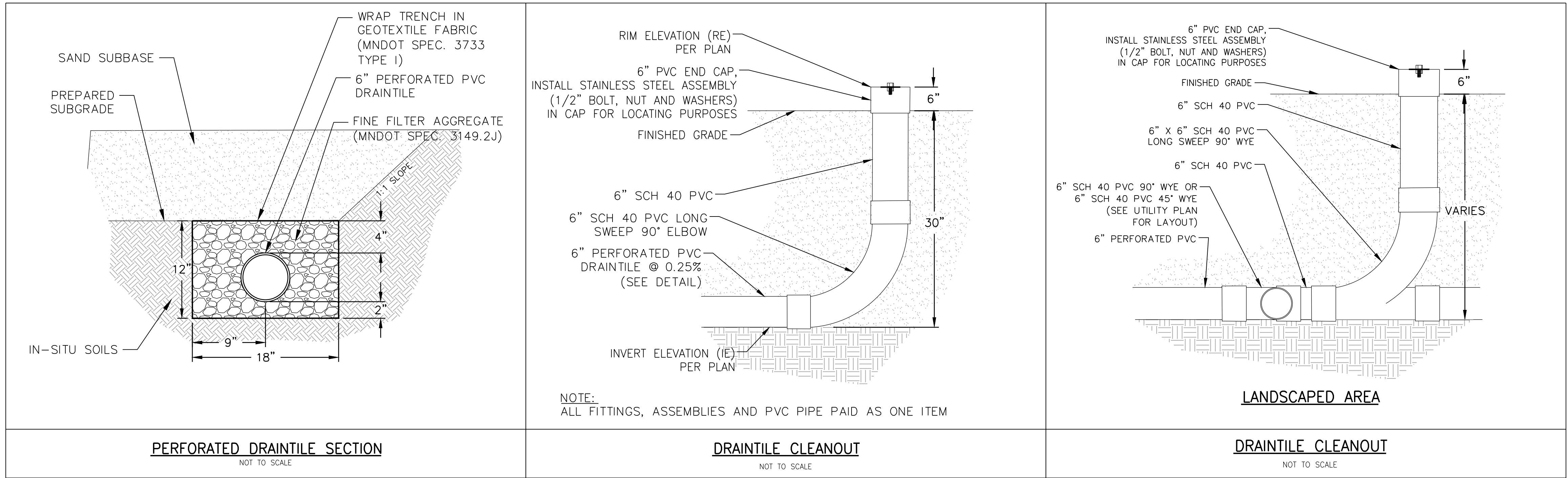
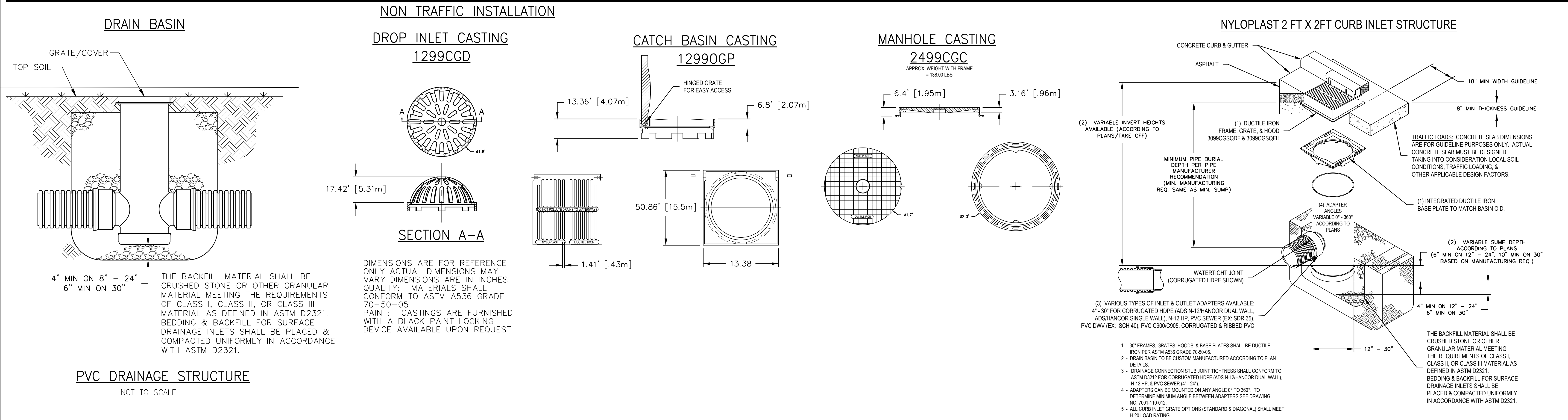
Date	Description
12/07/18	SD Pricing
02/15/19	DD Pricing
02/22/19	Site Plan Review & Watershed Submittal
05/21/19	Design Team Review
06/10/19	Issue for Permit and Construction
09/23/19	Site Plan Review/Watershed Resubmittal

Seal / Signature
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 Professional Engineer under the laws of the State of Minnesota.
PRINT NAME: BRADY P. RUTMAN
SIGNATURE: *Brady P. Rutman*
DATE: JUNE 10, 2019
LICENSE #: 56607

Project Name
LUTHER SEMINARY OLSON CENTER + GULLIXSON HALL
Project Number
30.7644.000 (SRF #11404.00)

Scale
1" = 20'
Description
CIVIL DETAILS



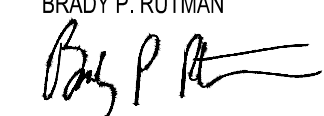


△	Date	Description
1	12/07/18	SD Pricing
2	02/15/19	DD Pricing
3	02/22/19	Site Plan Review & Watershed Submittal
4	05/21/19	Design Team Review
5	06/10/19	Issue for Permit and Construction
6	09/23/19	Site Plan Review/Watershed Resubmittal

Seal / Signature

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 Professional Engineer under the laws of the State of Minnesota.

PRINT NAME: BRADY P. RUTMAN

SIGNATURE: 

DATE: JUNE 10, 2019

LICENSE #: 56607

Project Name

LUTHER SEMINARY OLSON CENTER + GULLIXSON HALL

Project Number

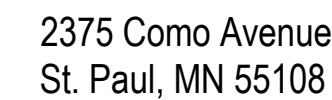
30.7644.000 (SRF #11404.00)

Scale

1" = 20'

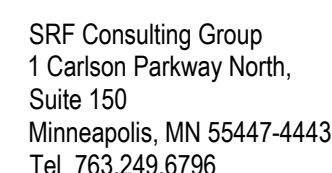
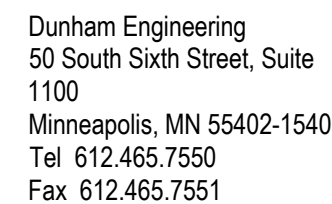
Description


CIVIL DETAILS



706 2nd Avenue South
Suite 1200
Minneapolis, MN 55402
United States


Tel 612.333.1113
Fax 612.333.1997



	Date	Description
1	12/07/18	SD Pricing
2	02/15/19	DD Pricing
3	02/22/19	Site Plan Review & Watershed Submittal
4	05/21/19	Design Team Review
5	06/10/19	Issue for Permit and Construction
6	09/23/19	Site Plan Review/Watershed Resubmittal
7	10/11/19	Watershed Comments

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 Professional Engineer under the laws of the State of Minnesota.

PRINT NAME: BRADY P. RUTMAN

SIGNATURE: 
DATE: JUNE 10, 2019
LICENSE #: 56607

Project Name
LUTHER SEMINARY OLSON CENTER -
GULLIXSON HALL

Project Number
30.7644.000 (SRF #11404.00)

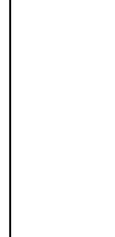
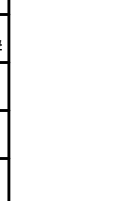
Scale

$$1'' = 20$$

Description

DRAINAGE DETAILS

© 2018 Gensle





**LUTHER
SEMINARY**

2375 Como Avenue
St. Paul, MN 55108

DUNHAM 
 Dunham Engineering
 50 South Sixth Street, Suite
 1100
 Minneapolis, MN 55402-1540
 Tel 612.465.7550
 Fax 612.465.7551

THIS DRAWING DEVELOPED BY:
SRF CONSULTING GROUP

1) RIGID OR FLEXIBLE PAVEMENT

2) GRANULAR ROAD BASE

3) 1/2" MIN. FOR DIAMETERS THROUGH 16" 1/4" MIN. FOR DIAMETERS FROM 16" AND LARGER MEASURED TO TOP OF RIGID OR BOTTOM OF FLEXIBLE PAVEMENT.

4) FREE DRAINING ANGULAR WASHED STONE 3/4" 2" MIN. PARTICLE SIZE

5) VOLUME PROVIDED BELOW OUTLET IS 1.485 CF

6) GRANULAR BEDDING, ROUGHLY SHAPED TO FIT THE BOTTOM OF PIPE, 4" IN DEPTH

7) EXCLUDE FABRIC AT BOTTOM OF INFILTRATION PRACTICE.

TYPICAL MANWAY DETAIL
SCALE: N.T.S.

ELEVATION

TYPICAL RISER DETAIL
SCALE: N.T.S.

TYPICAL SECTION VIEW
LINER OVER ROWS
SCALE: N.T.S.

FOUNDATION/BEDDING PREPARATION

PRIOR TO PLACING THE BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, THEY SHALL BE REMOVED AND BROUGHT BACK TO THE GRADE WITH A FILL MATERIAL AS APPROVED BY THE ENGINEER. ONCE THE FOUNDATION PREPARATION IS COMPLETE, THE 4 INCHES OF A WELL-GRADED GRANULAR MATERIAL SHALL BE PLACED AS THE BEDDING.

BACKFILL

THE BACKFILL MATERIAL SHALL BE DOUBLE-WASHED, ANGULAR, UNIFORM (UNIFORMITY COEFFICIENT OF 2 OR SMALLER) AGGREGATE BETWEEN 1.5 AND 30-60 MESH (DUAL-PASS) ADAPTABLE ROCK TYPES: GNEISS AND ORGYANAL METAMORPHIC (GRANITE, RHYOLITE, GABBRO, BASALT, QUARTZITE). UNACCEPTABLE ROCK TYPES: CARBONATE LIMESTONE, COAL, COAL LUMES AND NON-CRYSTALLINE METAMORPHIC (SHALE) MATERIAL SHALL BE PLACED IN 6" MAXIMUM LIFT MATERIAL SHALL BE INJECTED INTO THE TYPE MANHOLES BY MEANS OF SHOVEL-SLICING, RODDING, AIR-TAMPER, VIBRATORY ROD, OR OTHER EFFECTIVE MEANS OF COMPACTION. CONSIDERING ADEQUATE WHEN FURTHER YIELDING OF THE MATERIAL IS OBSERVED UNDER THE COMPACTOR OR UNDER FOOT, AND THE PROJECT ENGINEER OR HIS REPRESENTATIVE'S SATISFIED WITH THE LEVEL OF COMPACTION, ADEQUATE COMPACTION CAN LEAD TO EXCESSIVE DEFLECTIONS WITHIN THE SYSTEM AND SETTLEMENT OF THE TIES OVER THE SYSTEM. BACKFILL SHALL BE PLACED SUCH THAT THERE IS NO MORE THAN A 2.0 INCH DIFFERENTIAL BETWEEN THE SIDES OF ANY PIPE IN THE SYSTEM AT ALL TIMES DURING THE BACKFILL PROCESS. BACKFILL SHALL BE ADVANCING THE LENGTH OF THE SYSTEM AT THE SAME RATE TO AVOID DIFFERENTIAL LOADING ON ANY PIPES IN THE SYSTEM.

BACKFILL DETAIL
SCALE: N.T.S.

NOTE:

THESE DRAWINGS ARE FOR CONCEPTUAL PURPOSES AND DO NOT REFLECT ANY LOCAL PREFERENCES OR REGULATIONS. PLEASE CONTACT YOUR LOCAL CONTEXT FOR MODIFICATIONS.

PLAN

TYPICAL MANWAY DETAIL
SCALE: N.T.S.

ELEVATION

TYPICAL RISER DETAIL
SCALE: N.T.S.

TYPICAL SECTION VIEW
LINER OVER ROWS
SCALE: N.T.S.

NOTE:

IF SALTING AGENTS FOR SNOW AND ICE REMOVAL ARE USED ON OR NEAR THE PROJECT, A GEOMEMBRANE BARRIER IS RECOMMENDED WITH THE SYSTEM. THE GEOMEMBRANE LINER IS INTENDED TO HELP PROTECT THE SYSTEM FROM THE POTENTIAL ADEQUATE EFFECTS THAT MAY RESULT FROM A CHANGE IN THE SURROUNDING ENVIRONMENT OVER A PERIOD OF TIME. PLEASE REFER TO THE CORRUGATED METAL PIPE DETENTION DESIGN GUIDE FOR ADDITIONAL INFORMATION.

FRONT

NOTE:

MANWAY DETAIL APPLICABLE FOR CMP SYSTEMS WITH DIAMETERS 48" AND LARGER. MANWAYS MAY BE REQUIRED ON SMALLER SYSTEMS DEPENDING ON ACTUAL SITE SPECIFIC CONDITIONS.

RISE (TYP.)
SEE DETAIL

END

NOTE:

LADDERS ARE OPTIONAL AND ARE NOT REQUIRED FOR ALL SYSTEMS.

NOTE:

IF SALTING AGENTS FOR SNOW AND ICE REMOVAL ARE USED ON OR NEAR THE PROJECT, A GEOMEMBRANE BARRIER IS RECOMMENDED WITH THE SYSTEM. THE GEOMEMBRANE LINER IS INTENDED TO HELP PROTECT THE SYSTEM FROM THE POTENTIAL ADEQUATE EFFECTS THAT MAY RESULT FROM A CHANGE IN THE SURROUNDING ENVIRONMENT OVER A PERIOD OF TIME. PLEASE REFER TO THE CORRUGATED METAL PIPE DETENTION DESIGN GUIDE FOR ADDITIONAL INFORMATION.

PROJECT NO: 11189-1-0
PROJECT NAME: Luther Seminary
Saint Paul, MN
DESCRIPTION: E PARKING LOT

DATE: 11/18/2019
BY: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]

CONTECH
ENGINEERED SOLUTIONS LLC

3025 Centre Drive, Suite 400, West Chester, OH 45390
800-338-1122 513-645-7000 513-645-7983 FAX

www.ContechES.com

CONTECH
CMP DETENTION SYSTEMS

CONTECH
OYODS
DESIGNS

PROJECT NO: 11189-1-0
PROJECT NAME: Luther Seminary
Saint Paul, MN
DESCRIPTION: E PARKING LOT

DATE: 11/18/2019
BY: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]

PROJECT NO: 11189-1-0
PROJECT NAME: Luther Seminary
Saint Paul, MN
DESCRIPTION: E PARKING LOT

DATE: 11/18/2019
BY: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]

PROJECT NO: 11189-1-0
PROJECT NAME: Luther Seminary
Saint Paul, MN
DESCRIPTION: E PARKING LOT

PAVER	SURFACE ELEVATION	TOP OF STORAGE ELEVATION	BOTTOM OF STORAGE ELEVATION	PPE INVERT
FAB	962.20	961.83	960.00	959.75
F42	965.10	964.43	962.60	962.20
F43.0	965.38	965.01	963.18	962.93
F43.0	965.70	965.33	963.50	963.25

NOTES:
 SET SPECIFIC PROVISIONS:
 REFER TO CIVIL DETAILS FOR PAVER TYPICAL SECTION.
 TOP OF STORAGE AT TOP OF 3'-6" OPEN GRADED STONE.
 BOTTOM OF STORAGE AT BOTTOM OF 1.5'-3" OPEN GRADED STONE.

PERMEABLE PAVERS

NOT TO SCALE

The drawing illustrates a slotted drain system with two views: a profile view (top) and a plan view (bottom).

Profile View (Top): This view shows the drain installed in a concrete bed. A 6" PVC outlet pipe enters from the left, connected to a 45-degree elbow. The pipe passes through a vertical outlet plate into the drain channel. The channel is covered with a removable metal grate. Arrows indicate the flow direction from right to left. The drain is capped at the right end. The entire assembly is supported by a 4" minimum concrete bedding. Labels include: 6" PVC OUTLET PIPE, Vertical Outlet Plate, REMOVABLE METAL GRATE, END CAP, FLOW, 4" MIN. CONCRETE BEDDING, PLASTIC CHANNEL DRAIN, and PROFILE VIEW NOT TO SCALE.


Plan View (Bottom): This view shows the drain from above. It features a 6" PVC outlet pipe on the left, connected to a drop inlet or manhole. The pipe passes through a vertical outlet plate into the drain channel. The channel is covered with a removable metal grate. Arrows indicate the flow direction from right to left. The drain is capped at the right end. The entire assembly is supported by a 4" minimum concrete bedding. Labels include: 6" PVC OUTLET PIPE, Vertical Outlet Plate, REMOVABLE METAL GRATE, END CAP, FLOW, 4" MIN. CONCRETE BEDDING, and PLAN VIEW NOT TO SCALE.

INSTALLATION NOTES:

- ① ENGINEER WILL PROVIDE DIRECTION FOR LOCATION
- ② USE PolyDrain OR EQUIVALENT

SLOTTED DRAIN SYSTEM ① ②

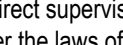
NOT TO SCALE

	Date	Description
1	12/07/18	SD Pricing
2	02/15/19	DD Pricing
3	02/22/19	Site Plan Review & Watershed Submittal
4	05/21/19	Design Team Review
5	06/10/19	Issue for Permit and Construction
6	09/23/19	Site Plan Review/Watershed Resubmittal

Seal / Signature

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 Professional Engineer under the laws of the State of Minnesota.

PRINT NAME: BRADY P. RUTMAN

SIGNATURE: 

DATE: JUNE 10, 2019

LICENSE #: 56607

Project Name

LUTHER SEMINARY OLSON CENTER + GULLIXSON HALL

Project Number

30.7644.000 (SRF #11404.00)

Scale
1" = 20'
Description
DRAINAGE DETAILS