

**PERMIT REPORT**

**To:** Board of Managers

**From:** Erin Manlick, Permitting Assistant

**Date:** June 10, 2019

**Re:** Permit 19-110: The Blake School, 110 Blake Road South, Hopkins

**Recommendation:**

Approval of MCWD permit application on the following conditions:

1. Submission of draft Maintenance Declaration for Wetland Buffers and Stormwater Facilities for District approval and then execution;
2. Reimbursement of engineering review fees and public notice mailing costs
3. Submission of Financial Assurance for Stormwater Management and Erosion Control

**Background:**

The Blake School (Applicant) has applied for a Minnehaha Creek Watershed District permit for Erosion Control, Stormwater Management, and Wetland Protection for a lobby addition and parking lot reconstruction on the school's campus. The proposed construction is the fifth phase of campus improvements permitted by MCWD since 2015. The application was completed on June 10, 2019 and a public notice was sent to property owners within 600 feet of the project on April 15<sup>th</sup>, 2019. A member of the public requested the permit application appear before the Board of Managers for consideration. District staff have been in communication with the resident and have conducted a meeting onsite to discuss the project. A Board Consideration notification was sent to property owners within 600 feet of the project on May 30<sup>th</sup>, 2019.

**District Rule Analysis:**Erosion Control Rule

The District's Erosion Control Rule is applied when a project proposes 5,000 square feet of land disturbance or 50 cubic yards of fill, excavation, or stockpiling on-site. The Applicant is proposing 203,275 square feet of disturbance, therefore the rule is triggered. In accordance with the rule provisions, the Applicant has submitted an erosion control plan which identifies erosion and sediment control best management practices. These include a rock construction entrance, silt fence down gradient of disturbed areas, and inlet protection where necessary. Additionally, a vegetative stabilization plan including the incorporation of six-inches of topsoil into underlying soils prior to final stabilization has been provided. The Project's concrete washout will be conducted offsite. A Minnesota Pollution Control Agency National Discharge Elimination System (NPDES)/State Disposal System (SDS) stormwater permit for construction activity has

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been obtained by the Applicant (Permit Number C00053670). The project, as proposed, meets the Erosion Control Rule.

#### Wetland Protection Rule and the Wetland Conservation Act

The wetland boundaries and types were delineated on October 9, 2014 and approved by the District on February 20, 2015 (see Attachment 3: Boundary and Type Notice of Decision). There are no proposed wetland impacts.

The buffer provision of the Wetland Protection Rule is applicable whenever any of the Wetland Protection, Waterbody Crossings & Structures, or Stormwater Management rules are triggered. Because the Stormwater Management rule is triggered, the buffer provision of the Wetland Protection rule is applicable. The project site contains two wetlands, one of which requires a buffer under this permit. The second wetland, located in the northwest corner of the campus, was modified into a stormwater pond in 2000 (MCWD Permit 00-377) and is not downgradient of any proposed disturbance in this phase.

Per section 5(a) of the Wetland Protection rule, buffers must be provided around all disturbed wetlands and on wetland edges downgradient of disturbance. The applicant has provided plans demonstrating that buffers will be provided on all applicable wetland areas. Additional analysis on buffer width has been provided under section 6(c) below.

Per section 5(b) of the rule, buffers are required, and have been analyzed under section 6, below.

Per section 5(c) of the rule, buffers must be documented by a declaration or other recordable instrument. An executed maintenance declaration for Wetland Protection is listed as a condition of recommended approval.

Section 5(d) of the rule requires a permanent wetland buffer monument to be installed at each lot line where it intersects the buffer, and where needed to indicate the contour of the buffer, with a maximum spacing of 100 feet. The applicant has provided a wetland buffer exhibit that demonstrates monumentation placed along the wetland buffer contour spaced no more than 100 feet apart and at each property line (Attachment 4).

Per section 6(a) of the rule, buffer width requirements are determined by the management class of the wetland (Table 1). The District's Functional Assessment of Wetlands (FAW) did not list a classification for the wetland present on the project site. The Applicant submitted a MnRAM analysis that classifies the wetland as Manage 2. The certified wetland delineator on staff reviewed the MnRAM analysis and concurs with the Manage 2 classification, which corresponds to a 30-foot wetland buffer. No reductions in Applied Buffer Width per section 6(b) have been sought by the Applicant.

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<b>Management Class</b>	<b>Base Buffer Width</b>	<b>Minimum Applied Buffer Width</b>
Manage 3	20 feet	16 feet
Manage 2	30 feet	24 feet
Manage 1	40 feet	34 feet
Preserve	75 feet	67 feet

*Table 1: Wetland Management Classifications & Buffer Widths*

Per section 6(c) of the rule, buffer averaging is permitted should the full width of the buffer not be able to be provided in all locations. Under this provision of the rule, buffer averaging may encompass minimum buffer widths of 50% of the Applied Buffer Width, and no more than 200% of the Applied Buffer Width, provided there is no reduction in total buffer area. A minimum buffer width of 15 feet and maximum width of 60 feet is allowable for Manage 2 wetlands. Based on review of the plans and specifications, the project as proposed meets the buffer averaging provision, with a minimum width of 18.7 feet and maximum width of 35 feet. The proposed buffer area of 5,021 square feet exceeds the required area of 5,013 square feet.

Section 6(d) of the rule does not apply as the Applicant has not requested a reduction in Applied Buffer Width based on the proposed buffer providing value equal to or greater than would be provided by a buffer of the applicable Applied Buffer Width.

Section 6(e) of the rule does not apply as this is not a Linear Reconstruction Project.

Section 6(f) of this rule does not apply as this project is not a New Principal Residential Structure.

The applicant has submitted plans and specifications sufficient to show that the existing buffer will not be disturbed. The Wetland Buffer declaration outlines the prohibited buffer activities, such as mowing, fertilizing, and placement of yard waste within the buffer area, and is listed as a condition for recommended approval.

Section 7(b) of this rule does not apply as the property is not public land, right-of-way, or owned by a homeowners association.

Section 7(c) of this rule does not apply as no grading or construction activities requiring revegetation will take place within the buffer.

In summary, the project, as proposed, meets the Wetland Protection Rule, with the listed condition of a Wetland Buffer Declaration.

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Stormwater Management Rule

The Stormwater Management Rule is triggered whenever new impervious surface is proposed. The project proposes 203,275 square feet (4.66 acres) of disturbance on a 2,306,649 square foot (52.95 acre) site. The site is comprised of several parcels owned by the Applicant. Prior to the campus improvement phases, the site’s total impervious surface was 624,980 square feet (14.35 acres). Phase 5 proposes to bring the total impervious surface to 769,143 square feet (17.66 acres). Per section 2 of the rule, activity subject to the rule on adjacent sites under common or related ownership is considered aggregate, and the requirements applicable to the activity under this rule are determined with respect to all development that has occurred on the a site, or on adjacent sites under common or related ownership. Since the total proposed site disturbance is less than 40% and the proposed increase in impervious is less than 50%, phosphorus, rate, and volume control must be provided only for the site’s new impervious surface, as shown in Tables 2 and 3 below.

Phase Name and Year	Disturbance (Square Feet)	Change in Impervious (Square Feet)
Baseball Diamonds, 2015	225,743	0
Athletic Triangle, 2016	254,557	+16,683
Ice Arena, 2017	12,040	-796
Dining Hall Addition, 2018	73,528	+16,155
Proposed Lobby and Parking Lot, 2019	203,275	+65,732
<b>Total</b>	769,143	+97,774
<b>Total Percent of Site</b>	33%	16%

Table 2: Cumulative disturbance and change in impervious surface at The Blake School since 2015.

Site Size	Site Disturbance	Impervious Surface Increase	Requirements	Treatment Scope
≤ 1 acre	N/A	N/A	Incorporate BMPs	N/A
> 1 acre	< 40% site disturbance	< 50% increase in impervious surface	Phosphorus Control, Rate Control, and Volume Control	Additional impervious surface
		≥ 50% increase in impervious surface		Entire site’s impervious surface
	≥ 40% site disturbance	N/A	Phosphorus Control, Rate Control, and Volume Control	Entire site’s impervious surface

Table 3: Stormwater Requirements for redevelopment resulting in an increase in impervious surface.

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The new impervious surface will receive stormwater treatment through an existing stormwater pond, the expansion of an existing infiltration basin, and the addition of two underground filtration systems.

*Volume Control*

The volume control requirement is met by abstracting the first inch of rainfall from the site’s new impervious surfaces. Based on the plans, stormwater calculations, and narrative the Applicant submitted, the project proposes to increase impervious surface by 65,732 square feet, which requires an abstraction volume of 7,780 cf. The Applicant has provided an abstraction volume of 30,049 cf. Based on staff and the District Engineer’s analysis of the submittals provided by the Applicant, the provided abstraction volume is in excess of the required abstraction. Based on this review and analysis, the volume control requirement is met.

*Rate Control*

The rate control requirement dictates that no net increase in the peak runoff rates for the 1-, 10-, and 100-year design storms may occur anywhere stormwater discharges across the downgradient site boundary. The Applicant has submitted plans, a stormwater model, stormwater calculations, and a narrative to demonstrate conformance with this criteria. An existing and proposed conditions of rates has been prepared by the Applicant to highlight anticipated rates, as shown in Table 4. Based on this analysis, staff and the District Engineer have determined the rate control requirement is met.

	1-year Storm (cfs)		10-year Storm (cfs)		100-year Storm (cfs)	
	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
NW Stormwater Pond	2.58	2.34	5.04	4.56	6.71	6.16
Infiltration Basin	1.85	0.44	5.62	4.78	6.93	6.42
Excelsior Blvd.	2.58	2.34	9.73	7.55	13.09	11.79
Offsite West	5.07	4.32	7.85	7.34	9.67	9.65
Offsite South	0.37	0.34	8.45	3.65	17.61	11.36
<b>Total</b>	<b>12.45</b>	<b>9.78</b>	<b>36.69</b>	<b>27.88</b>	<b>54.01</b>	<b>45.34</b>

Table 4: Existing and proposed rates of runoff for 1, 10, and 100-year storm events

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*Phosphorus Control*

The phosphorus control requirement is met by meeting the abstraction requirements as outlined in the Volume Control section. Because the Applicant has demonstrated conformance with the volume control requirement, the phosphorus control requirement has been met.

*Best Management Practices*

Per section 3(d) of the rule, best management practices must be incorporated to limit the creation of impervious surface, maintain or enhance on-site infiltration, peak flow, and limit pollution generation on and discharge from the site. The Applicant has provided plans, stormwater modeling, stormwater calculations, and a narrative to demonstrate conformance with this requirement. Based on review of the Applicant’s submittals, staff and the District Engineer have determined that the proposed underground filtration systems, infiltration basin expansion, and existing stormwater pond have been designed in conformance with the criteria as outlined in the Minnesota Stormwater Manual and their incorporation satisfies the requirements of this provision.

*High Water Elevation*

The high water elevation requirement of the rule requires two vertical feet of separation between the 100 year flood elevation and the low openings to structures. Based on the Applicant’s submittals (Table 5), and review and analysis by staff and the District Engineer, the highest 100 year high water elevation of the BMPs is 943.85 and the low opening to the proposed building is 955.18. The applicant has demonstrated 11.33 feet of freeboard, meeting the minimum 2 foot requirement.

<b>BMP</b>	<b>100 Year Flood Elevation</b>
NW Stormwater Pond	918.39
Infiltration Basin	914.19
Underground Filtration #1	940.18
Underground Filtration #2	943.85

*Table 5: 100-year flood elevations of onsite BMPs*

*Downstream Waterbodies*

The downstream waterbodies section of the rule regulates new point sources and changes to the bounce and inundation of water basins. Per section 8(a) of the rule, no new point source may discharge to a waterbody without pretreatment for sediment and nutrient removal. As there is no new point source of discharge proposed on this site, section 8(a) does not apply.

Section 8(b) regulates the permitted bounce in water level and duration of inundation during the 1, 10, and 100 year storm events, as well as the change in elevation of the runout control. The wetland within the project area is classified as a Manage 2, and therefore allows for the changes shown in Table 6.

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Wetland Management Class/ Waterbody	Permitted Bounce for 1-, 10-, and 100-Year Event	Inundation Period for 1-Year Event	Inundation Period for 10- and 100-Year Event	Runout Control Elevation
<b>Preserve</b>	Existing	Existing	Existing	No change
<b>Manage 1</b>	Existing plus 0.5 feet	Existing plus 1 day	Existing plus 2 days	No change
<b>Manage 2</b>	Existing plus 1.0 feet	Existing plus 2 days	Existing plus 14 days	0 to 1.0 ft above existing runout
<b>Manage 3</b>	No limit	Existing plus 7 days	Existing plus 21 days	0 to 4.0 ft above existing runout
<b>Lakes</b>	Existing	N/A	N/A	No change

Table 6: Allowable impacts to downstream waterbodies

Based on the Applicant’s submittals (Table 7), and review and analysis by staff and the District Engineer, the bounce will be reduced and inundation will be within limits during the 1, 10, and 100 year events. There is no proposed change in the elevation of the runout control of the waterbody. Based on analysis of the submitted calculations, staff and the District Engineer have determined this requirement of the rule has been met.

Criteria	Existing	Proposed
Bounce, 1 Year	938.18’	938.15’
Bounce, 10 Year	938.54’	938.38’
Bounce, 100 Year	938.81’	938.64’
Inundation, 1 Year	24.72 hours	20.90 hours
Inundation, 10 Year	25.16 hours	25.20 hours
Inundation, 100 Year	25.36 hours	25.45 hours
Runout Control Elevation	938.10’	938.10’

Table 7: Existing and proposed conditions of the Manage 2 wetland.

Per section 11(a) of the rule, Stormwater Facilities must be documented by a declaration or other recordable instrument. An executed maintenance declaration for Stormwater Facilities is listed as a condition of recommended approval.

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In summary, the project, as proposed, meets the Stormwater Management Rule, with the listed condition of a Stormwater Facilities Maintenance Declaration.

**Summary:**

The Blake School has applied for a Minnehaha Creek Watershed District permit under the Erosion Control, Wetland Protection, and Stormwater Management rules for a lobby addition and parking lot reconstruction on the school's campus. The proposed project meets the applicable requirements under the applicable rules, upon satisfaction of the recommended conditions. Staff recommends approval of the permit with the conditions listed.

**Attachments:**

1. Water Resources Application Form
2. Site Plans
3. Boundary and Type NOD
4. Wetland Buffer Exhibit

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**WATER RESOURCE PERMIT APPLICATION FORM**

Use this form to notify/apply to the Minnehaha Creek Watershed District (MCWD) of a proposed project or work which may fall within their jurisdiction. Fill out this form completely and submit with your site plan, maps, etc. to the MCWD at:  
15320 Minnetonka Blvd. Minnetonka, MN 55345.

Keep a copy for your records.

**YOU MUST OBTAIN ALL REQUIRED AUTHORIZATIONS BEFORE BEGINNING WORK.**

1. Name of each property owner: The Blake School, c/o Lisa Uhler (Director of Buildings and Grounds)  
Mailing Address: 110 Blake Road South City: Hopkins State: MN Zip: 55343  
Email Address: luhler@blakeschool.org Phone: 952-988-3454 Fax: \_\_\_\_\_

2. Property Owner Representative Information (not required) (licensed contractor, architect, engineer, etc...)  
Business Name: Larson Engineering Representative Name: Eric Meyer  
Business Address: 3524 Labore Road City: White Bear Lake State: MN Zip: 55110  
Email Address: emeyer@larsonengr.com Phone: 651-481-9120 Fax: 651-481-9201

3. Project Address: 110 Blake Road South City: Hopkins  
State: MN Zip: 55343 Qtr Section(s): SW Section(s): 19 Township(s): 117 Range(s): 21  
Lot: 001 Block: 001 Subdivision: The Blake School PID: 19-117-21-43-0006

4. Size of project parcel (square feet or acres): 54.275 acres  
Area of disturbance (square feet): 203,275 sf Volume of excavation/fill (cubic yards): \_\_\_\_\_  
Area of existing impervious surface: 624,980 sf Area of proposed impervious surface: 690,712 sf  
Length of shoreline affected (feet): 0 Waterbody (& bay if applicable): n/a

5. Type of permit being applied for (Check all that apply):  
 EROSION CONTROL  WATERBODY CROSSINGS/STRUCTURES  
 FLOODPLAIN ALTERATION  STORMWATER MANAGEMENT  
 WETLAND PROTECTION  APPROPRIATIONS  
 DREDGING  ILLICIT DISCHARGE  
 SHORELINE/STREAMBANK STABILIZATION

6. Project purpose (Check all that apply):  
 SINGLE FAMILY HOME  MULTI FAMILY RESIDENTIAL (apartments)  
 ROAD CONSTRUCTION  COMMERCIAL or INSTITUTIONAL  
 UTILITIES  SUBDIVISIONS (include number of lots)  
 DREDGING  LANDSCAPING (pools, berms, etc.)  
 SHORELINE/STREAMBANK STABILIZATION  OTHER (DESCRIBE): School Addition (lobby)

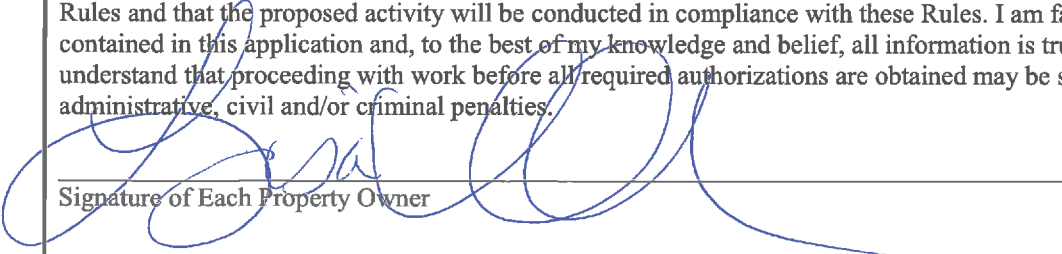
7. NPDES/SDS General Stormwater Permit Number (if applicable): N/A

8. Waterbody receiving runoff from site: Excelsior Boulevard storm sewer

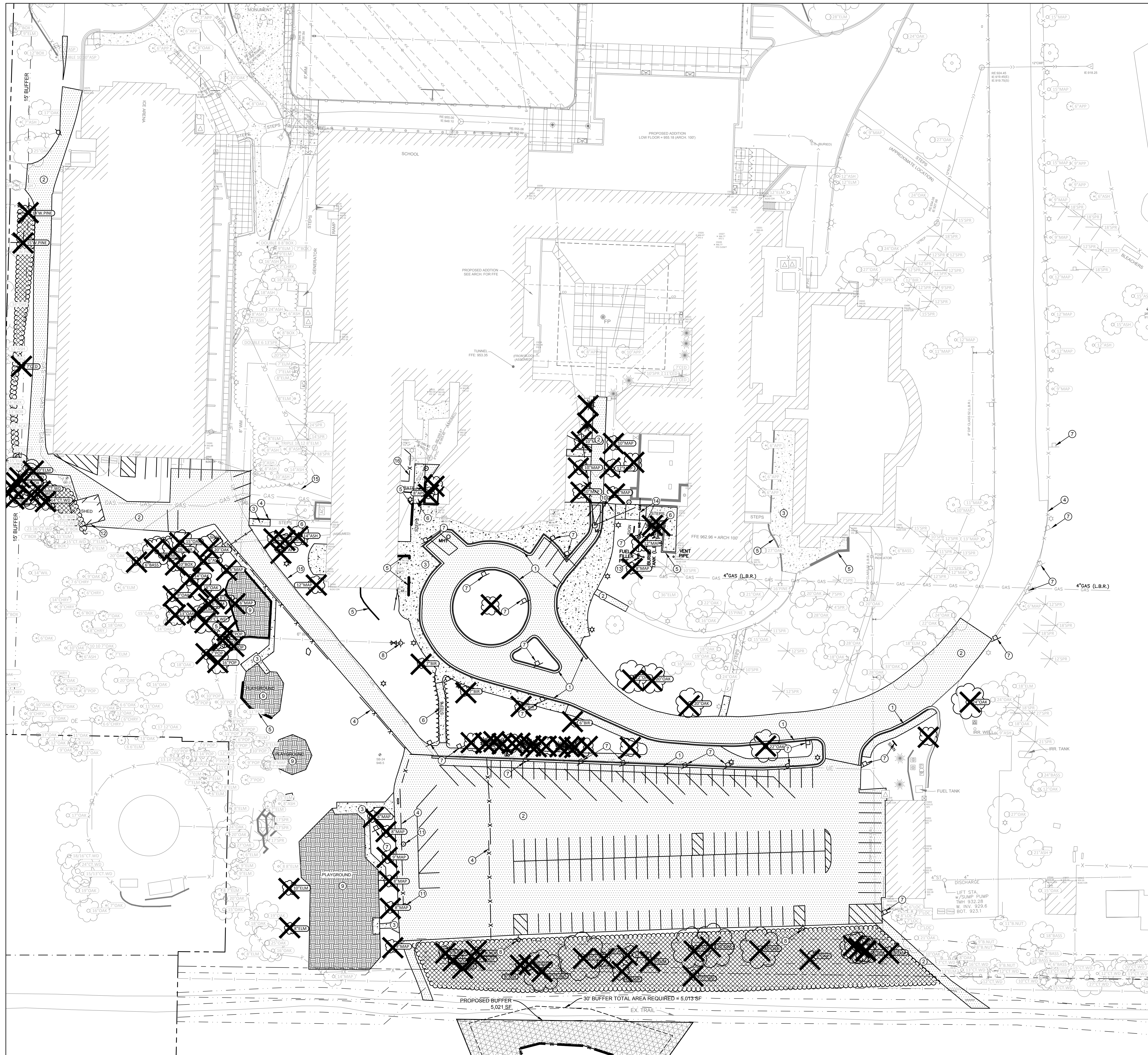
9. Project Timeline: Start Date: May 2019 Completion Date: September 2020

Permits have been applied for: City  County  MN Pollution Control Agency  DNR  COE   
Permits have been received: City  County  MN Pollution Control Agency  DNR  COE

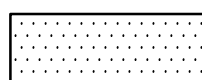

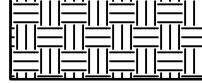
By signing below, I hereby request a permit to authorize the activities described herein. I certify that I am familiar with MCWD Rules and that the proposed activity will be conducted in compliance with these Rules. I am familiar with the information contained in this application and, to the best of my knowledge and belief, all information is true, complete and accurate. I understand that proceeding with work before all required authorizations are obtained may be subject to federal, state and/or local administrative, civil and/or criminal penalties.

  
Signature of Each Property Owner

3/12/19  
Date



**SYMBOL LEGEND**

-  REMOVE AND DISPOSE OF EXISTING BITUMINOUS PAVEMENT SECTION
-  REMOVE AND DISPOSE OF EXISTING CONCRETE PAVEMENT SECTION
-  REMOVE AND DISPOSE OF EXISTING PLAYGROUND MATERIAL

**DEMOLITION NOTES**

1. Verify all existing utility locations.
2. It is the responsibility of the Contractor to perform or coordinate all necessary utility demotions and relocations from existing utility locations to all onsite amenities and buildings. These connections include, but are not limited to, water, sanitary sewer, cable tv, telephone, gas, electric, site lighting, etc.
3. Prior to beginning work, contact Gopher State OneCall (651-454-0002) to locate utilities throughout the area under construction. The Contractor shall retain the services of a private utility locator to locate the private utilities.
4. Sawcut along edges of pavements, sidewalks, and curbs to remain.
5. All construction shall be performed in accordance with state and local standard specifications for construction.

**KEY NOTES**

- ① SAWCUT, REMOVE, AND DISPOSE OF EXISTING CONCRETE CURB AND GUTTER.
- ② REMOVE AND DISPOSE OF EXISTING BITUMINOUS PAVEMENT.
- ③ REMOVE AND DISPOSE OF EXISTING CONCRETE.
- ④ REMOVE AND DISPOSE OF EXISTING FENCE.
- ⑤ REMOVE AND DISPOSE OF EXISTING RETAINING WALL.
- ⑥ REMOVE AND DISPOSE OF EXISTING STEPS.
- ⑦ REMOVE AND DISPOSE SIGN.
- ⑧ REMOVE AND DISPOSE OF EXISTING HYDRANT.
- ⑨ REMOVE AND DISPOSE OF EXISTING PLAYGROUND MATERIAL.
- ⑩ REMOVE AND DISPOSE OF SANITARY SEWER.
- ⑪ REMOVE AND SALVAGE BASKETBALL HOOP.
- ⑫ REMOVE AND DISPOSE OF BUILDING AND ALL APPURTENANCES.
- ⑬ REMOVE AND DISPOSE OF EXISTING FUEL OIL TANK AND LINES.
- ⑭ RELOCATE GAS SERVICE.
- ⑮ SEE ELECTRICAL.
- ⑯ REMOVE AND SALVAGE MEMORIAL GARDEN AND FENCE. REINSTALL AT LOCATION DETERMINED BY OWNER.

**U+B** architecture & design, inc.  
 2609 Aldrich Avenue South  
 Suite 100  
 Minneapolis, Minnesota 55408  
 T | 612-870-2538  
 www.uplusb.com

**Project Contacts**

Paul Udris, AIA, LEED AP  
 C | 612-616-1915  
 paul.udris@uplusb.com

**Larson Engineering, Inc.**  
 3524 Labore Road  
 White Bear Lake, MN 55110  
 651.481.9120 (f) 651.481.9201  
 www.larsonengr.com

**Hopkins Campus Lobby Addition**  
**PERMIT SET**

February 15, 2019

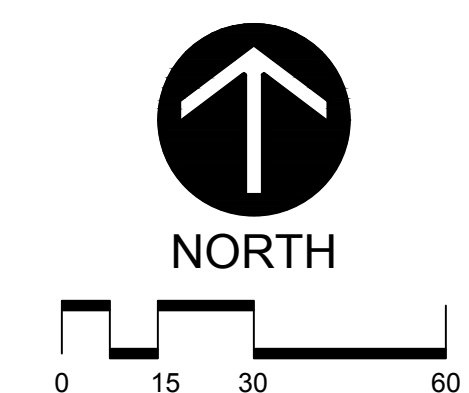
110 Blake Road South  
 Hopkins, MN 55343

Project: 2014020BLKE-2

Drawings Issued	Date
Bid Set	December 18, 2018
△ Addendum 1	January 21, 2019
△ Addendum 2	February 6, 2019
Permit Set	February 15, 2019
△ Watershed Revisions	April 9, 2019
△ City Comments	April 16, 2019
△ ASI 2	May 15, 2019
△ Watershed Revisions	June 3, 2019

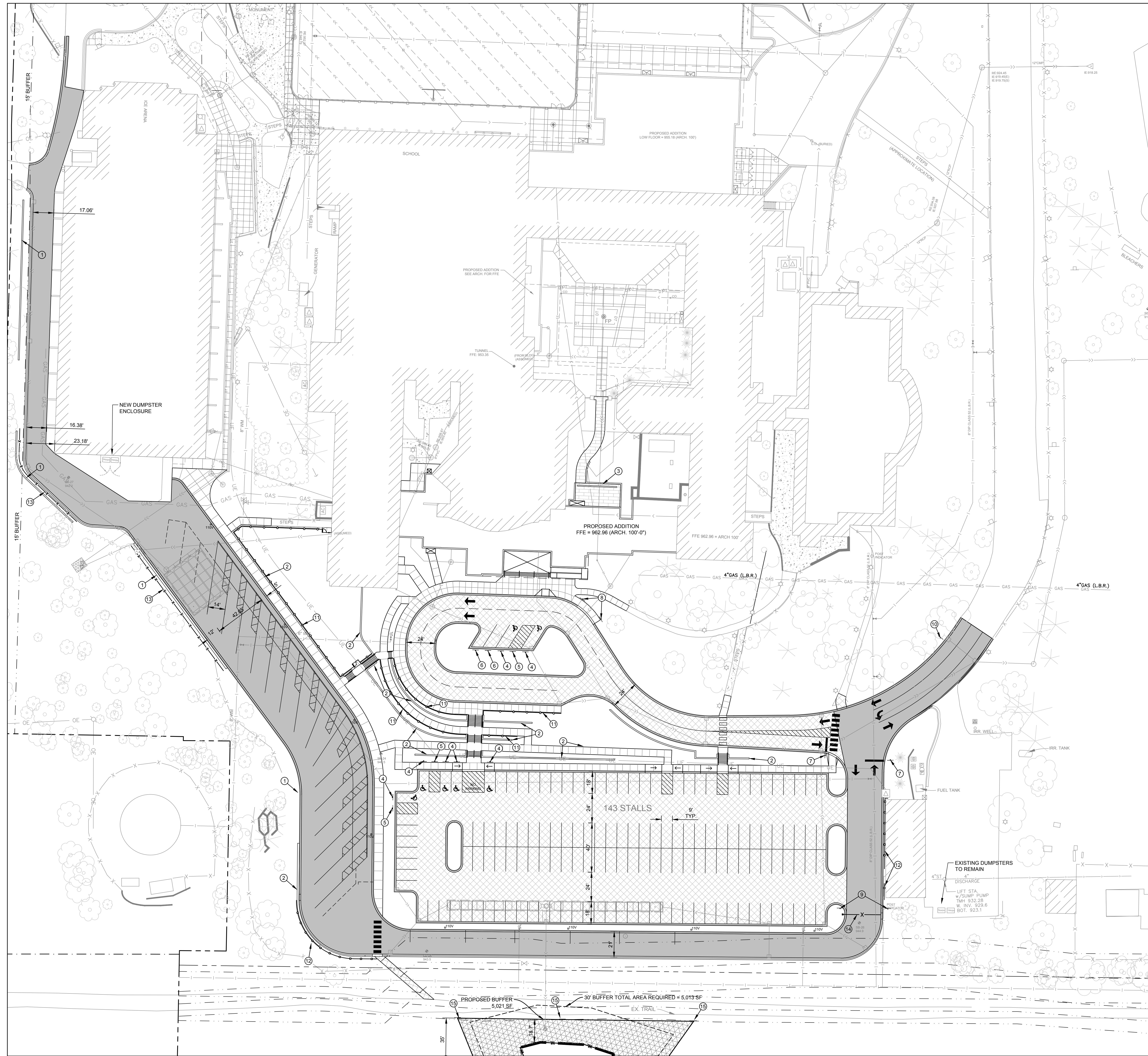
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature *Eric G. Meyer*  
 Printed Name Eric G. Meyer, P.E.  
 Registration Number 44592



**DEMOLITION PLAN**

**C100**



**SYMBOL LEGEND**

- NEW HEAVY-DUTY BITUMINOUS PAVEMENT  
SEE DETAIL 1/C500
- NEW LIGHT-DUTY BITUMINOUS PAVEMENT  
SEE DETAIL 2/C500
- PAVERS, SEE LANDSCAPE PLAN
- NEW CONCRETE PAVEMENT  
SEE DETAIL 3/C500

**KEY NOTES**

- ① RECON RETAINING WALL  
SEE DETAIL 7/C500
- ② SEGMENTAL RETAINING WALL  
SEE DETAIL 6/C500
- ③ RETAINING WALL  
SEE LANDSCAPE
- ④ ADA PARKING SIGN
- ⑤ ADA ACCESS AISLE SIGN
- ⑥ VISITOR PARKING
- ⑦ STOP SIGN
- ⑧ ADA LOADING
- ⑨ BUSES ONLY
- ⑩ LANE USE SIGN
- ⑪ ORNAMENTAL FENCE, SEE DETAIL 12/C500
- ⑫ SCREENING FENCE, SEE LANDSCAPE
- ⑬ CHAINLINK FENCE
- ⑭ LIFT ARM GATE
- ⑮ WETLAND BUFFER SIGN FROM  
MINNEHAHA CREEK WATERSHED DISTRICT

**ADA PARKING CALCULATION**

TOTAL PROPOSED STALLS: 147  
 REQUIRED ADA STALLS: 5  
 PROPOSED ADA STALLS: 7

**U+B** architecture & design, inc.  
 2609 Aldrich Avenue South  
 Suite 100  
 Minneapolis, Minnesota 55408  
 T | 612-870-2538  
 www.uplusb.com

**Project Contacts**  
 Paul Udris, AIA, LEED AP  
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 paul.udris@uplusb.com

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 651.481.9120 (f) 651.481.9201  
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**Hopkins Campus  
 Lobby Addition  
 PERMIT SET**

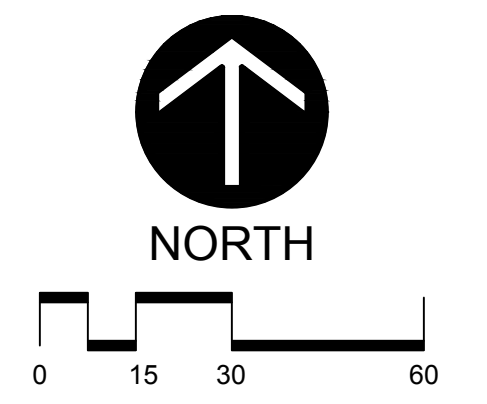
February 15, 2019

110 Blake Road South  
 Hopkins, MN 55343  
 Project: 2014020BLKE-2

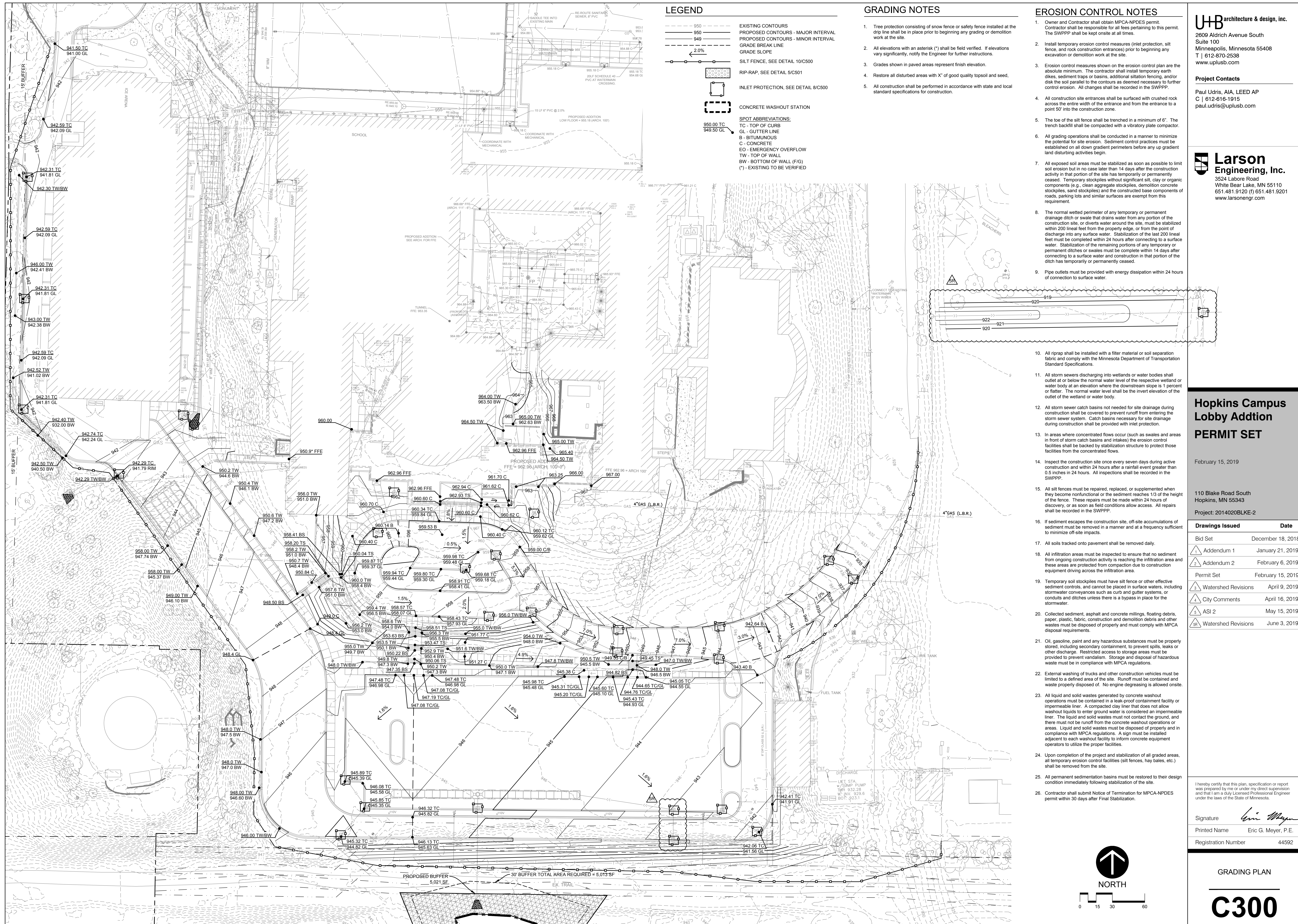
Drawings Issued	Date
Bid Set	December 18, 2018
△ Addendum 1	January 21, 2019
△ Addendum 2	February 6, 2019
Permit Set	February 15, 2019
△ Watershed Revisions	April 9, 2019
△ City Comments	April 16, 2019
△ ASI 2	May 15, 2019
△ Watershed Revisions	June 3, 2019

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.

Signature   
 Printed Name Eric G. Meyer, P.E.  
 Registration Number 44592



PAVING PLAN  
**C200**



**LEGEND**

- 950 --- EXISTING CONTOURS
- 950 --- PROPOSED CONTOURS - MAJOR INTERVAL
- 949 --- PROPOSED CONTOURS - MINOR INTERVAL
- 2.0% --- GRADE BREAK LINE
- 2.0% --- GRADE SLOPE
- SILT FENCE, SEE DETAIL 10/C500
- RIP-RAP, SEE DETAIL 5/C501
- INLET PROTECTION, SEE DETAIL 8/C500
- CONCRETE WASHOUT STATION
- SPOT ABBREVIATIONS:  
 TC - TOP OF CURB  
 GL - GUTTER LINE  
 B - BITUMINOUS  
 C - CONCRETE  
 EO - EMERGENCY OVERFLOW  
 TW - TOP OF WALL  
 BW - BOTTOM OF WALL (FIG)  
 (\*) - EXISTING TO BE VERIFIED

**GRADING NOTES**

1. Tree protection consisting of snow fence or safety fence installed at the drip line shall be in place prior to beginning any grading or demolition work at the site.
2. All elevations with an asterisk (\*) shall be field verified. If elevations vary significantly, notify the Engineer for further instructions.
3. Grades shown in paved areas represent finish elevation.
4. Restore all disturbed areas with X" of good quality topsoil and seed.
5. All construction shall be performed in accordance with state and local standard specifications for construction.

**EROSION CONTROL NOTES**

1. Owner and Contractor shall obtain MPCA-NPDES permit. Contractor shall be responsible for all fees pertaining to this permit. The SWPPP shall be kept onsite at all times.
2. Install temporary erosion control measures (silt fence, silt fence, and rock construction entrances) prior to beginning any excavation or demolition work at the site.
3. Erosion control measures shown on the erosion control plan are the absolute minimum. The contractor shall install temporary earth dikes, sediment traps or basins, additional siltation fencing, and/or disk the soil parallel to the contours as deemed necessary to further control erosion. All changes shall be recorded in the SWPPP.
4. All construction site entrances shall be surfaced with crushed rock across the entire width of the entrance and from the entrance to a point 50' into the construction zone.
5. The toe of the silt fence shall be trenched in a minimum of 6". The trench backfill shall be compacted with a vibratory plate compactor.
6. All grading operations shall be conducted in a manner to minimize the potential for site erosion. Sediment control practices must be established on all down gradient perimeters before any up gradient land disturbing activities begin.
7. All exposed soil areas must be stabilized as soon as possible to limit soil erosion but in no case later than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Temporary stockpiles without significant silt, clay or organic components (e.g., clean aggregate stockpiles, demolition concrete stockpiles, sand stockpiles) and the constructed base components of roads, parking lots and similar surfaces are exempt from this requirement.
8. The normal wetted perimeter of any temporary or permanent drainage ditch or swale that drains water from any portion of the construction site, or diverts water around the site, must be stabilized within 200 lineal feet from the property edge, or from the point of discharge into any surface water. Stabilization of the last 200 lineal feet must be completed within 24 hours after connecting to a surface water. Stabilization of the remaining portions of any temporary or permanent ditches or swales must be complete within 14 days after connecting to a surface water and construction in that portion of the ditch has temporarily or permanently ceased.
9. Pipe outlets must be provided with energy dissipation within 24 hours of connection to surface water.
10. All riprap shall be installed with a filter material or soil separation fabric and comply with the Minnesota Department of Transportation Standard Specifications.
11. All storm sewers discharging into wetlands or water bodies shall outlet at or below the normal water level of the respective wetland or water body at an elevation where the downstream slope is 1 percent or flatter. The normal water level shall be the invert elevation of the outlet of the wetland or water body.
12. All storm sewer catch basins not needed for site drainage during construction shall be covered to prevent runoff from entering the storm sewer system. Catch basins necessary for site drainage during construction shall be provided with inlet protection.
13. In areas where concentrated flows occur (such as swales and areas in front of storm catch basins and intakes) the erosion control facilities shall be backed by stabilization structure to protect those facilities from the concentrated flows.
14. Inspect the construction site once every seven days during active construction and within 24 hours after a rainfall event greater than 0.5 inches in 24 hours. All inspections shall be recorded in the SWPPP.
15. All silt fences must be repaired, replaced, or supplemented when they become nonfunctional or the sediment reaches 1/3 of the height of the fence. These repairs must be made within 24 hours of discovery, or as soon as field conditions allow access. All repairs shall be recorded in the SWPPP.
16. If sediment escapes the construction site, off-site accumulations of sediment must be removed in a manner and at a frequency sufficient to minimize off-site impacts.
17. All soils tracked onto pavement shall be removed daily.
18. All infiltration areas must be inspected to ensure that no sediment from ongoing construction activity is reaching the infiltration area and these areas are protected from compaction due to construction equipment driving across the infiltration area.
19. Temporary soil stockpiles must have silt fence or other effective sediment controls, and cannot be placed in surface waters, including stormwater conveyances such as curbs and gutter systems, or conduits and ditches unless there is a bypass in place for the stormwater.
20. Collected sediment, asphalt and concrete millings, floating debris, paper, plastic, fabric, construction and demolition debris and other wastes must be disposed of properly and must comply with MPCA disposal requirements.
21. Oil, gasoline, paint and any hazardous substances must be properly stored, including secondary containment, to prevent spills, leaks or other discharge. Restricted access to storage areas must be provided to prevent vandalism. Storage and disposal of hazardous waste must be in compliance with MPCA regulations.
22. External washing of trucks and other construction vehicles must be limited to a defined area of the site. Runoff must be contained and waste properly disposed of. No engine degreasing is allowed onsite.
23. All liquid and solid wastes generated by concrete washout operations must be contained in a leak-proof containment facility or impermeable liner. A compacted clay liner that does not allow washout liquids to enter ground water is considered an impermeable liner. The liquid and solid wastes must not contact the ground, and there must not be runoff from the concrete washout operations or areas. Liquid and solid wastes must be disposed of properly and in compliance with MPCA regulations. A sign must be installed adjacent to each washout facility to inform concrete equipment operators to utilize the proper facilities.
24. Upon completion of the project and stabilization of all graded areas, all temporary erosion control facilities (silt fences, hay bales, etc.) shall be removed from the site.
25. All permanent sedimentation basins must be restored to their design condition immediately following stabilization of the site.
26. Contractor shall submit Notice of Termination for MPCA-NPDES permit within 30 days after Final Stabilization.

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**Hopkins Campus  
 Lobby Addition  
 PERMIT SET**

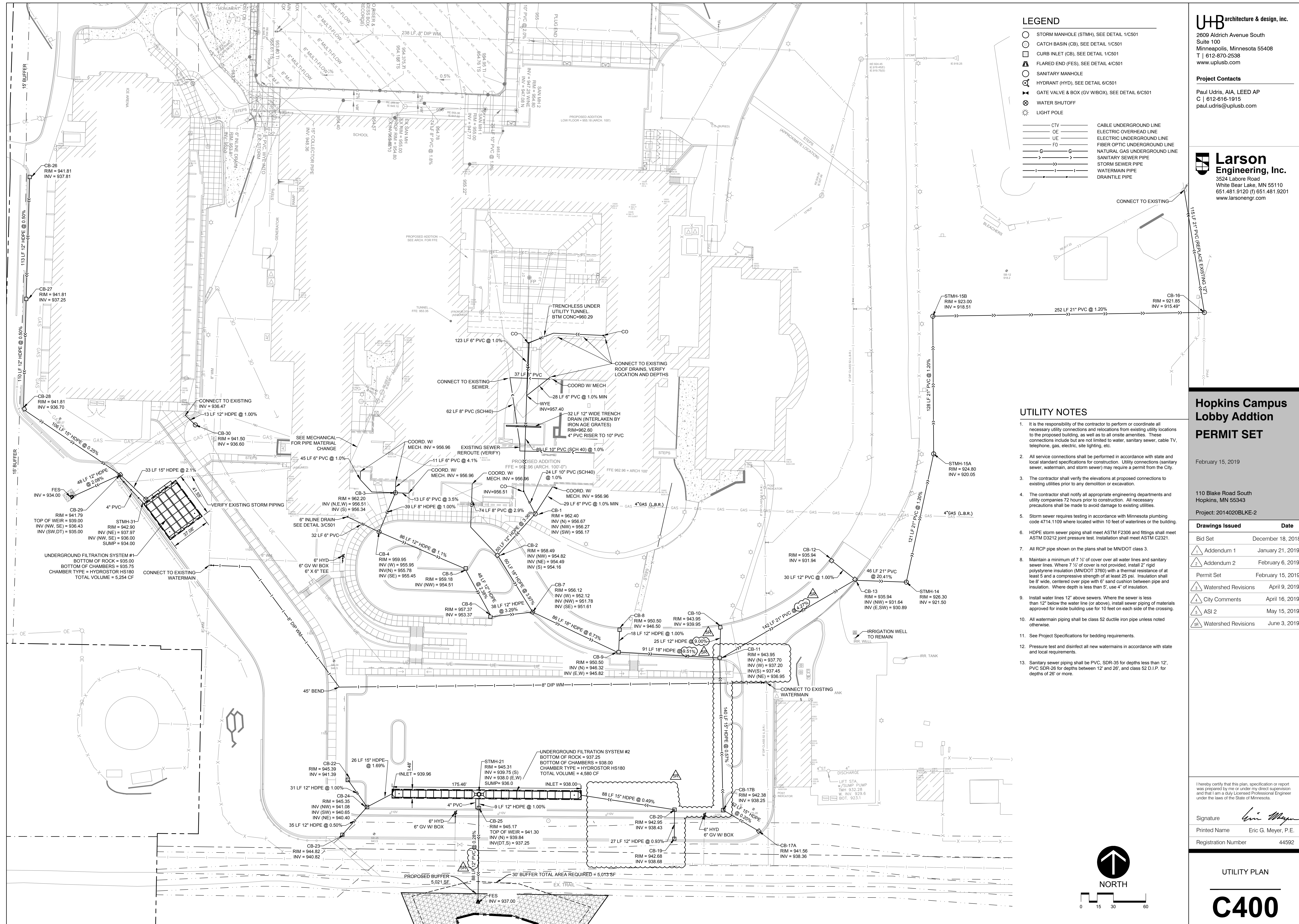
February 15, 2019  
 110 Blake Road South  
 Hopkins, MN 55343  
 Project: 2014020BLKE-2

Drawings Issued	Date
Bid Set	December 18, 2018
△ Addendum 1	January 21, 2019
△ Addendum 2	February 6, 2019
Permit Set	February 15, 2019
△ Watershed Revisions	April 9, 2019
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Signature *Eric G. Meyer*  
 Printed Name Eric G. Meyer, P.E.  
 Registration Number 44592

GRADING PLAN  
**C300**



### LEGEND

	STORM MANHOLE (STMH), SEE DETAIL 1/C501
	CATCH BASIN (CB), SEE DETAIL 1/C501
	CURB INLET (CB), SEE DETAIL 1/C501
	FLARED END (FES), SEE DETAIL 4/C501
	SANITARY MANHOLE
	HYDRANT (HYD), SEE DETAIL 6/C501
	GATE VALVE & BOX (GV W/BOX), SEE DETAIL 6/C501
	WATER SHUTOFF
	LIGHT POLE
	CABLE UNDERGROUND LINE
	ELECTRIC OVERHEAD LINE
	ELECTRIC UNDERGROUND LINE
	FIBER OPTIC UNDERGROUND LINE
	NATURAL GAS UNDERGROUND LINE
	SANITARY SEWER PIPE
	STORM SEWER PIPE
	WATERMAIN PIPE
	DRAIN TILE PIPE

- ### UTILITY NOTES
- It is the responsibility of the contractor to perform or coordinate all necessary utility connections and relocations from existing utility locations to the proposed building, as well as to all onsite amenities. These connections include but are not limited to water, sanitary sewer, cable TV, telephone, gas, electric, site lighting, etc.
  - All service connections shall be performed in accordance with state and local standard specifications for construction. Utility connections (sanitary sewer, watermain, and storm sewer) may require a permit from the City.
  - The contractor shall verify the elevations at proposed connections to existing utilities prior to any demolition or excavation.
  - The contractor shall notify all appropriate engineering departments and utility companies 72 hours prior to construction. All necessary precautions shall be made to avoid damage to existing utilities.
  - Storm sewer requires testing in accordance with Minnesota plumbing code 4714.1109 where located within 10 feet of waterlines or the building.
  - HDPE storm sewer piping shall meet ASTM F2306 and fittings shall meet ASTM D3212 joint pressure test. Installation shall meet ASTM C2321.
  - All RCP pipe shown on the plans shall be MNDOT class 3.
  - Maintain a minimum of 7 1/2' of cover over all water lines and sanitary sewer lines. Where 7 1/2' of cover is not provided, install 2" rigid polystyrene insulation (MNDOT 3760) with a thermal resistance of at least 5 and a compressive strength of at least 25 psi. Insulation shall be 8' wide, centered over pipe with 6" sand cushion between pipe and insulation. Where depth is less than 5', use 4" of insulation.
  - Install water lines 12" above sewers. Where the sewer is less than 12" below the water line (or above), install sewer piping of materials approved for inside building use for 10 feet on each side of the crossing.
  - All watermain piping shall be class 52 ductile iron pipe unless noted otherwise.
  - See Project Specifications for bedding requirements.
  - Pressure test and disinfect all new watermains in accordance with state and local requirements.
  - Sanitary sewer piping shall be PVC, SDR-35 for depths less than 12', PVC SDR-26 for depths between 12' and 26', and class 52 D.I.P. for depths of 26' or more.

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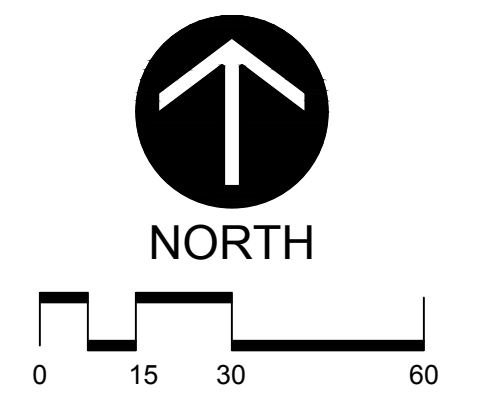
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February 15, 2019  
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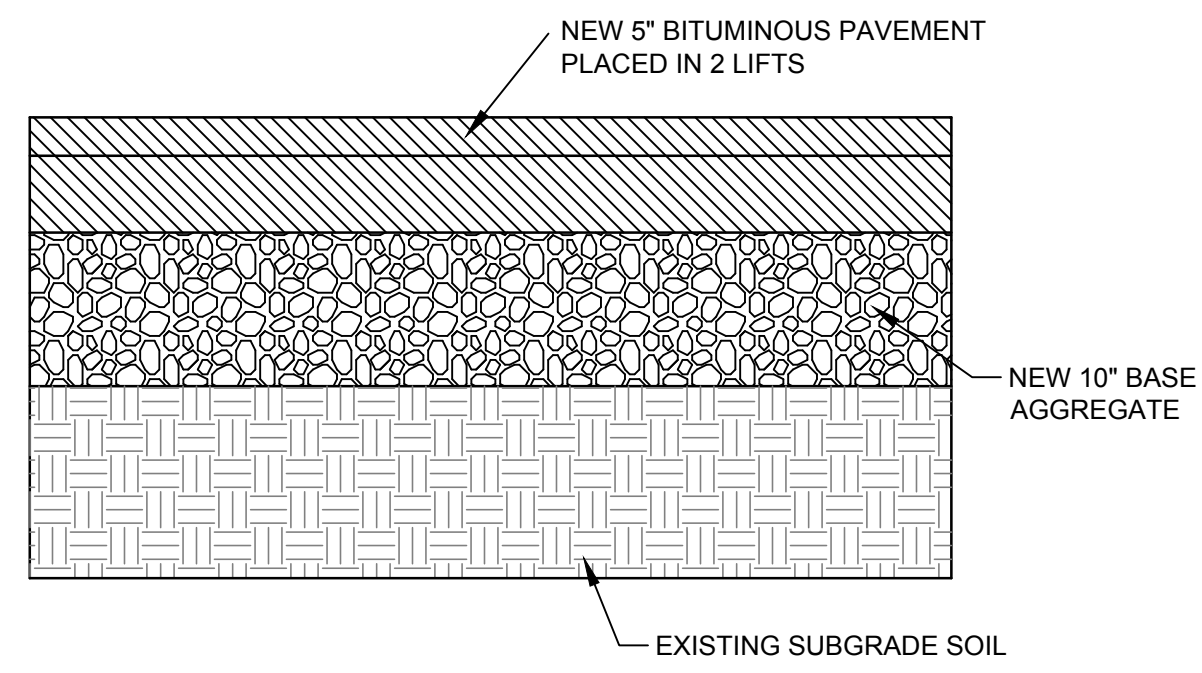
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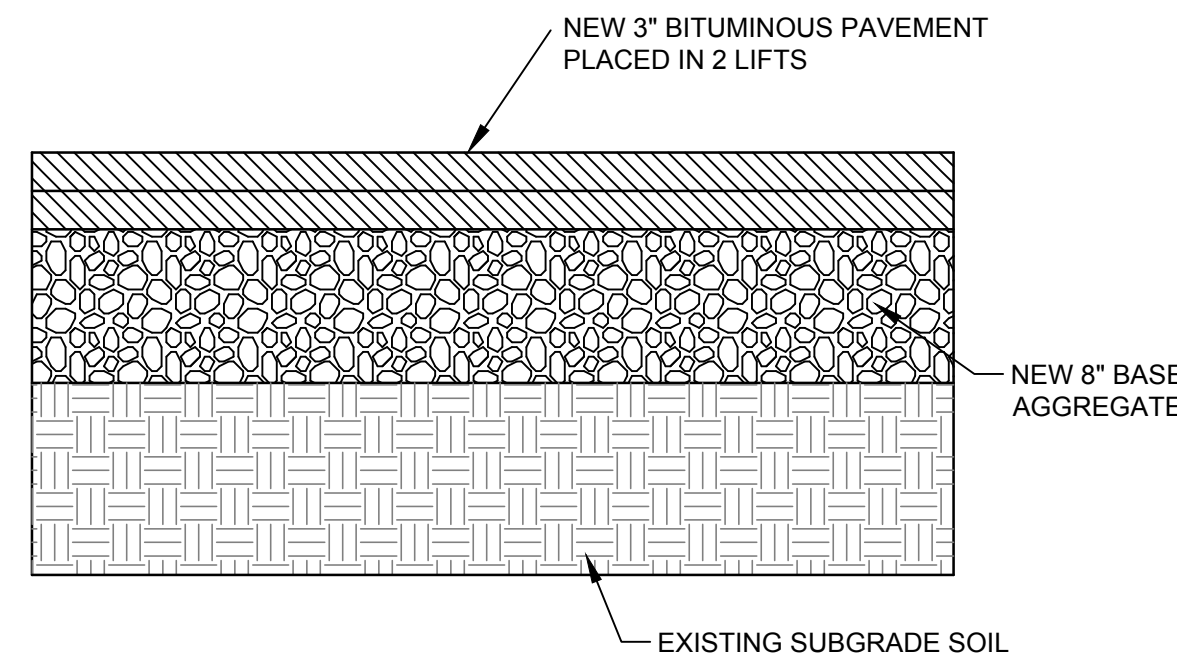
Signature *Eric G. Meyer*  
 Printed Name Eric G. Meyer, P.E.  
 Registration Number 44592



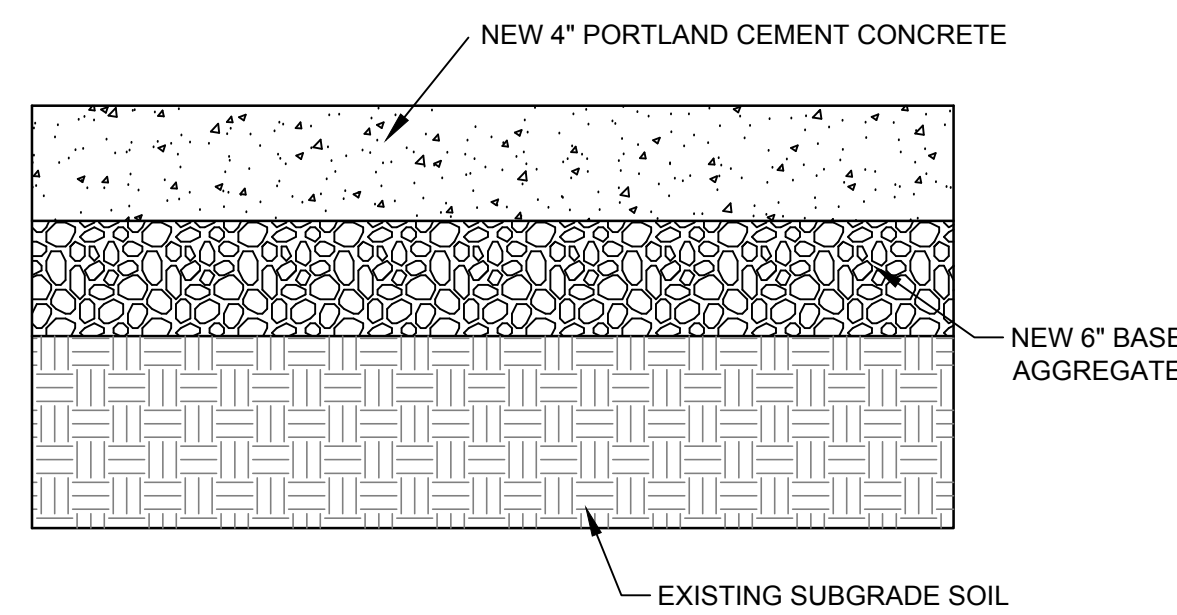
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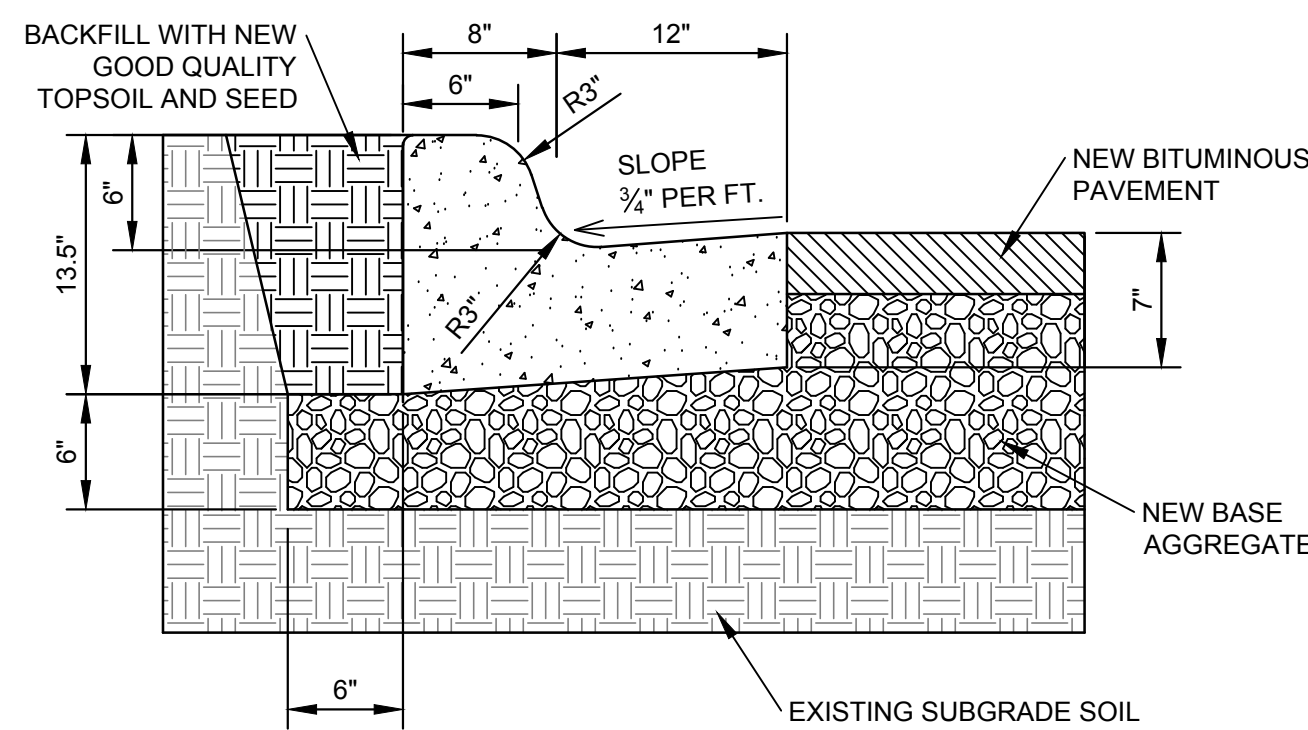
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C500  
**HEAVY-DUTY BITUMINOUS PAVEMENT SECTION**  
NOT TO SCALE



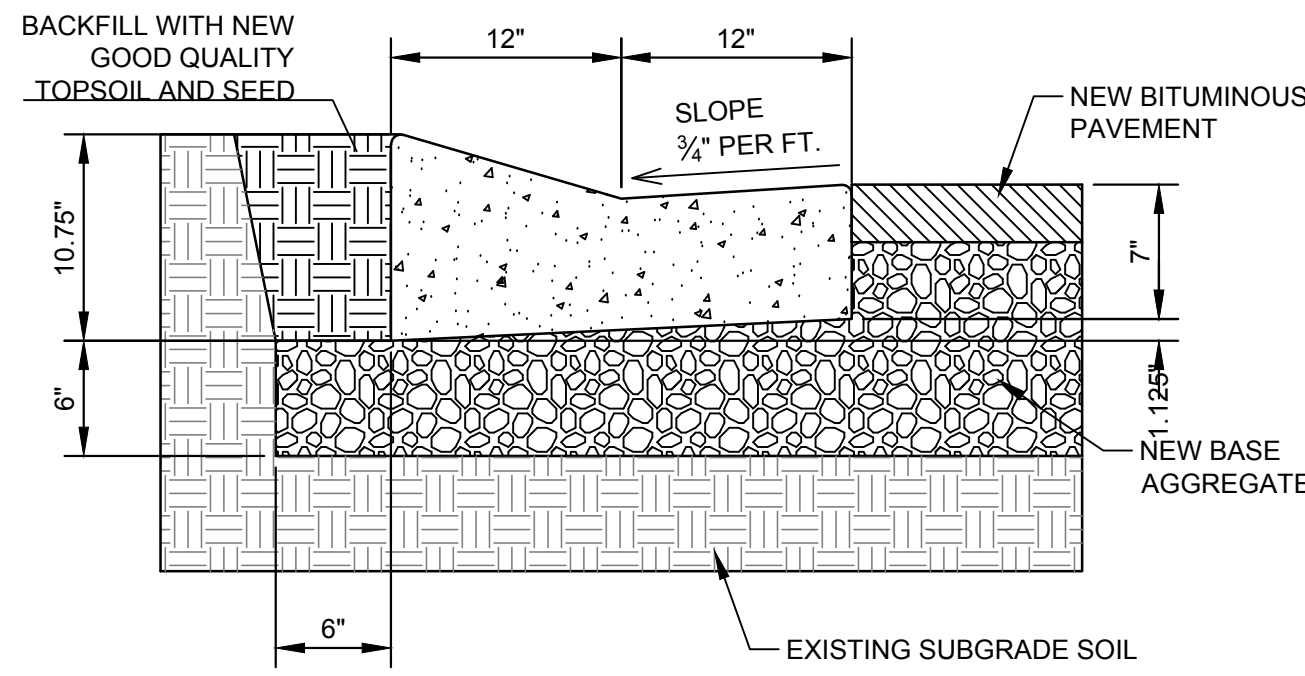
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**LIGHT-DUTY BITUMINOUS PAVEMENT SECTION**  
NOT TO SCALE



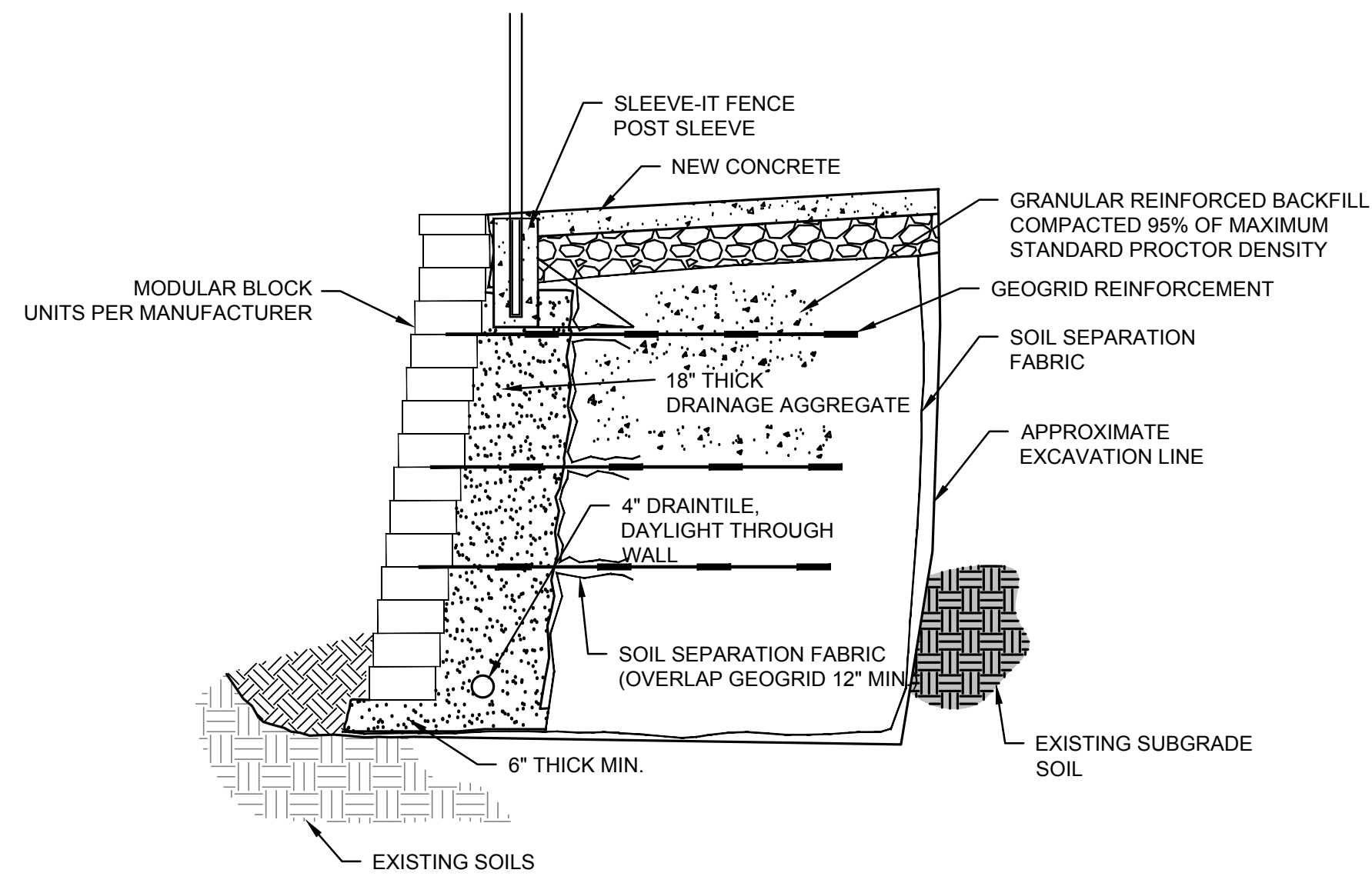
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**CONCRETE CONSTRUCTION DETAIL**  
NOT TO SCALE



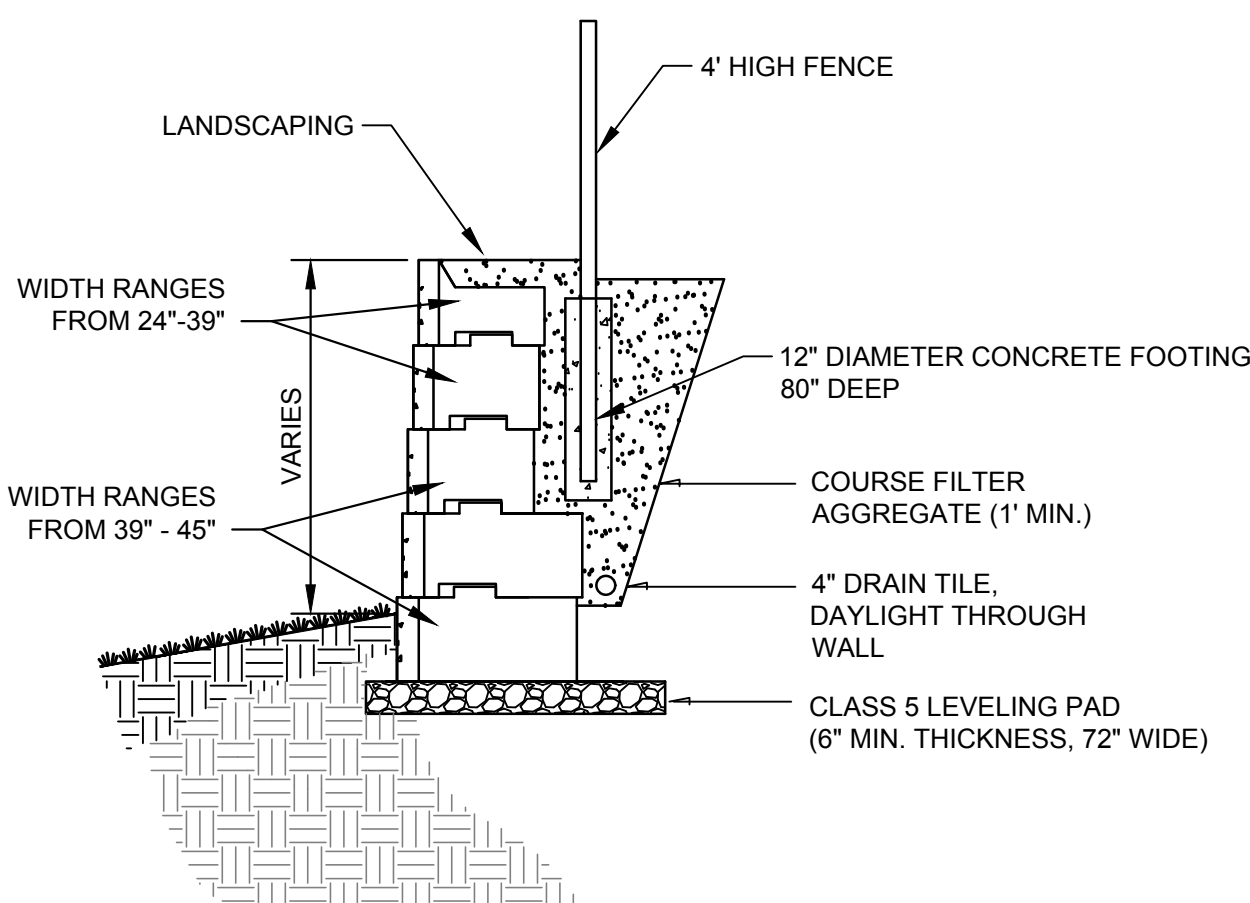
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C500  
**B612 CONCRETE CURB & GUTTER DETAIL**  
NOT TO SCALE



5  
C500  
**SURMOUNTABLE CURB & GUTTER DETAIL**  
NOT TO SCALE

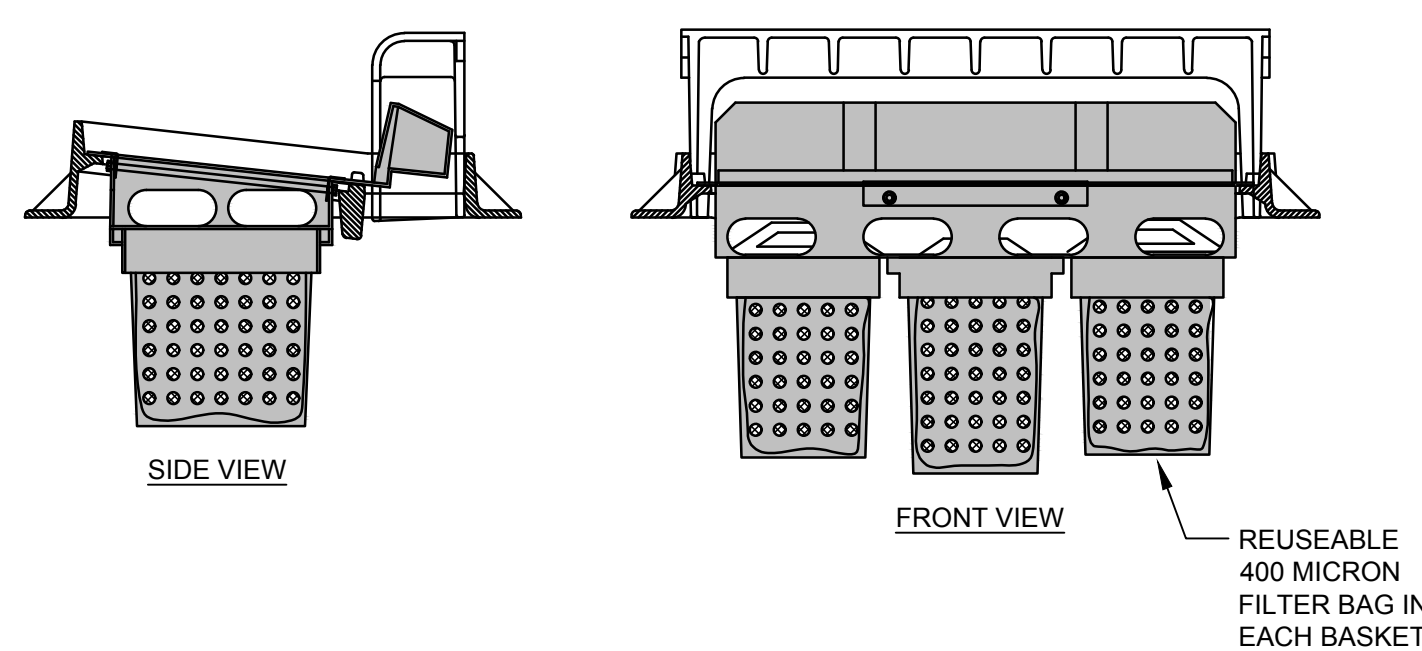


6  
C500  
**SEGMENTAL RETAINING WALL DETAIL**  
NOT TO SCALE

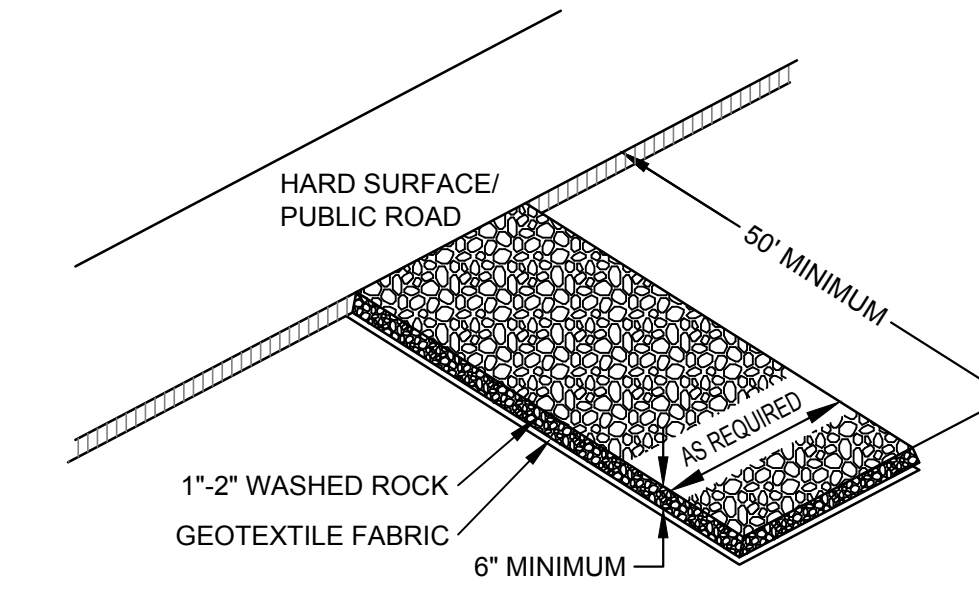


7  
C500  
**RECON RETAINING WALL DETAIL**  
NOT TO SCALE

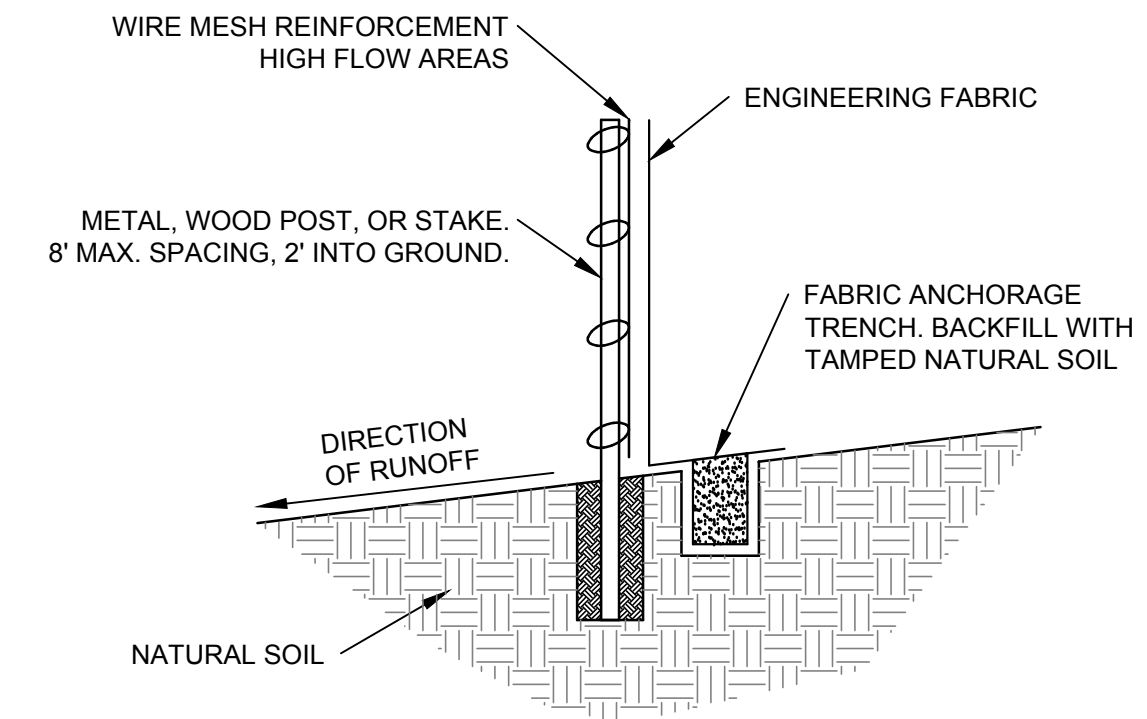
FILTER AREA	6.5 FT <sup>2</sup>
OVERFLOW AREA	0.6 FT <sup>2</sup>
MAXIMUM OVERFLOW RATE (@ 7\"/>	
MAXIMUM OVERFLOW RATE (@ 1.3\"/>	
BASKET WEIGHT (EMPTY)	1 LB
BASKET WEIGHT (FULL-APPROX.)	70 LBS



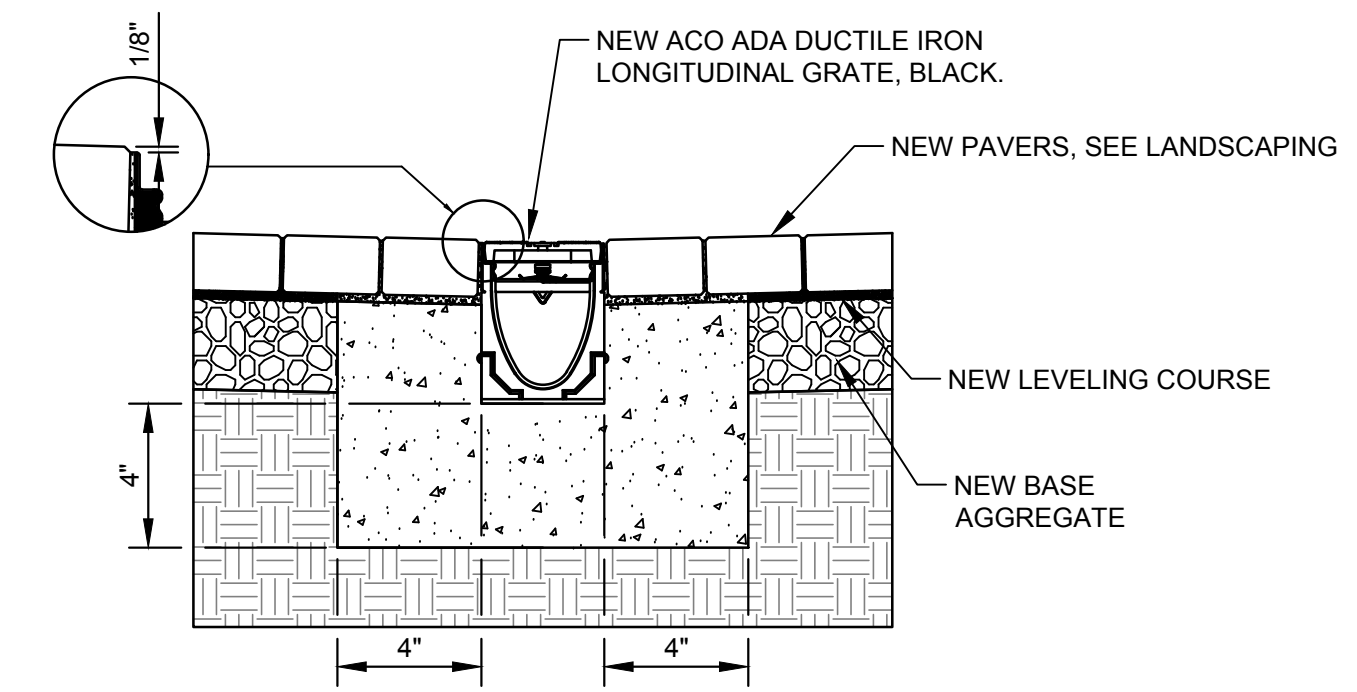
8  
C500  
**INFRA SAFE INLET PROTECTION DEVICE (OR EQUAL)**  
NOT TO SCALE



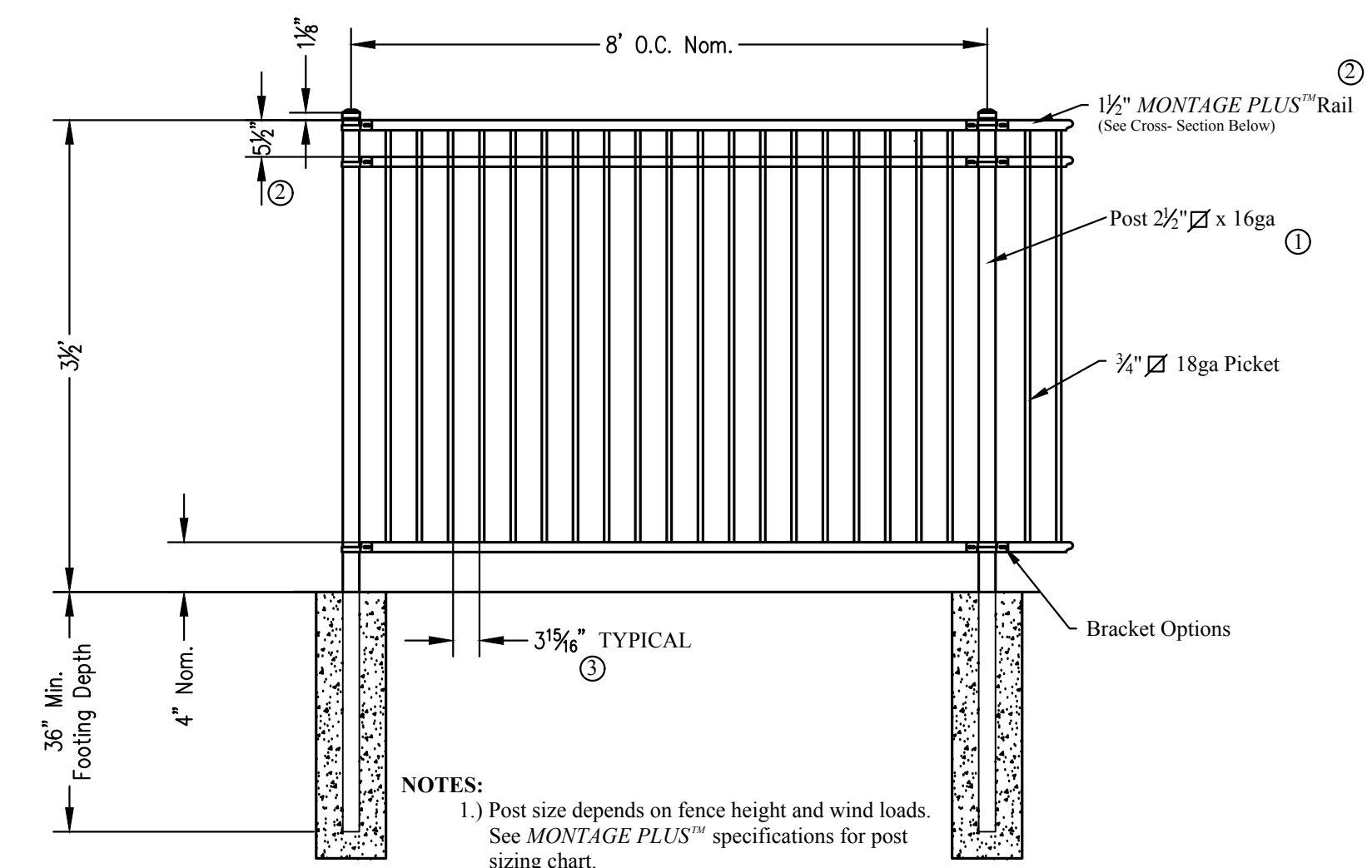
9  
C500  
**ROCK CONSTRUCTION ENTRANCE**  
NOT TO SCALE



10  
C500  
**SILT FENCE INSTALLATION DETAIL**  
NOT TO SCALE



11  
C500  
**TRENCH DRAIN INSTALLATION DETAIL**  
NOT TO SCALE



12  
C500  
**MONTAGE PLUS MAJESTIC 3-RAIL FENCE DETAIL**  
NOT TO SCALE

**Project Contacts**

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C | 612-616-1915  
paul.udris@uplusb.com

**Hopkins Campus Lobby Addition PERMIT SET**

February 15, 2019

110 Blake Road South  
Hopkins, MN 55343

Project: 2014020BLKE-2

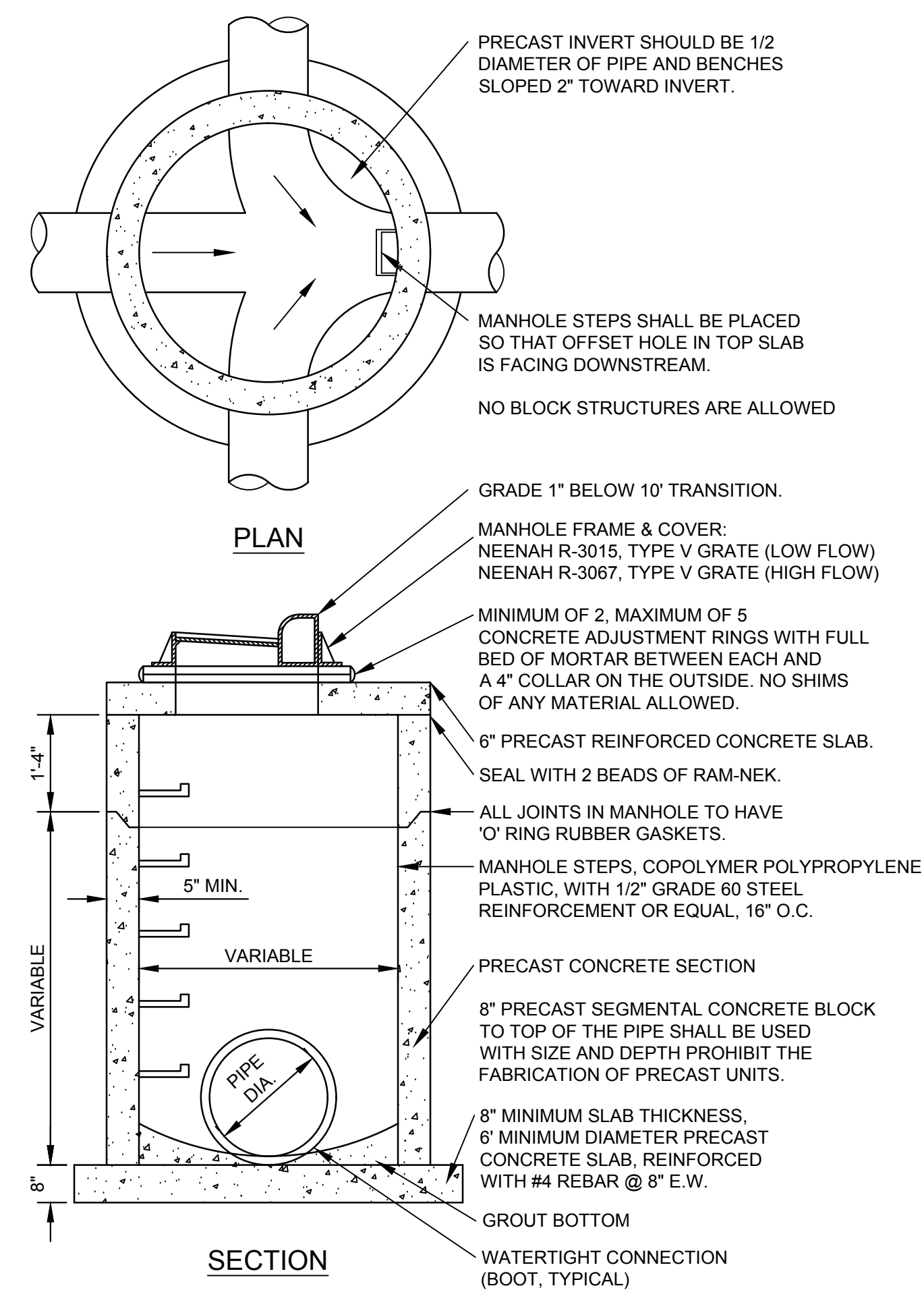
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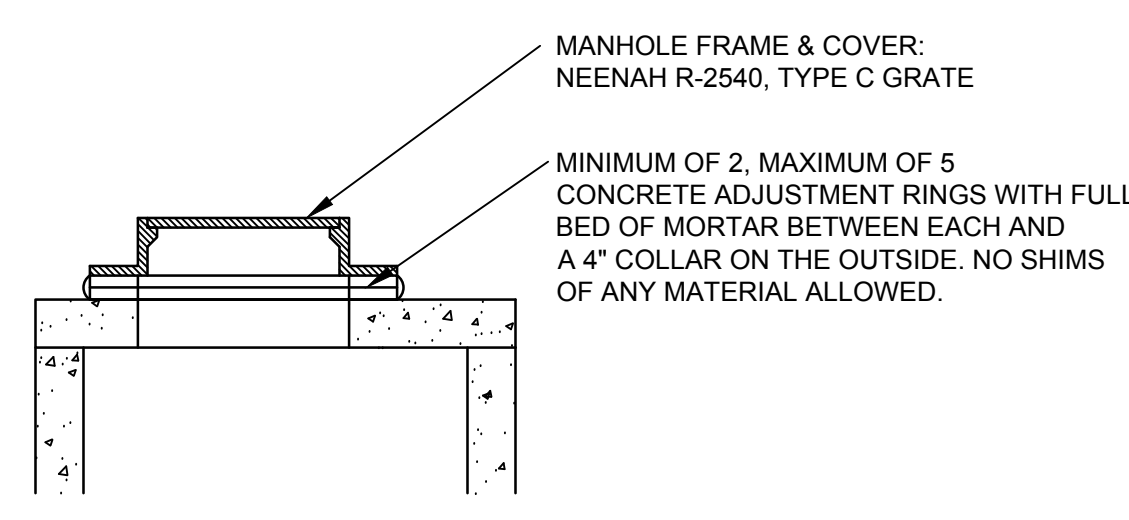
Signature *Eric G. Meyer*  
Printed Name Eric G. Meyer, P.E.  
Registration Number 44592

DETAILS

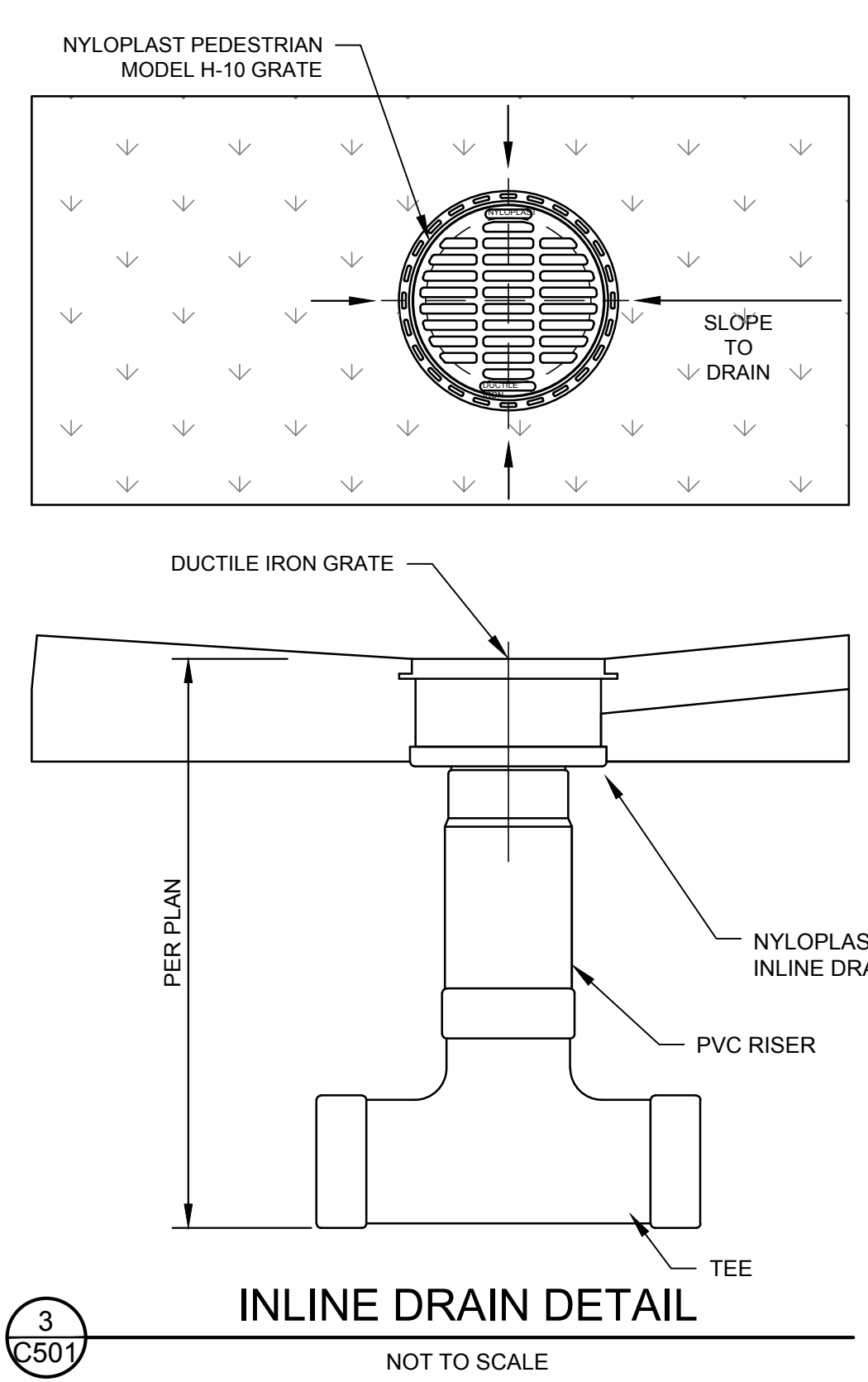
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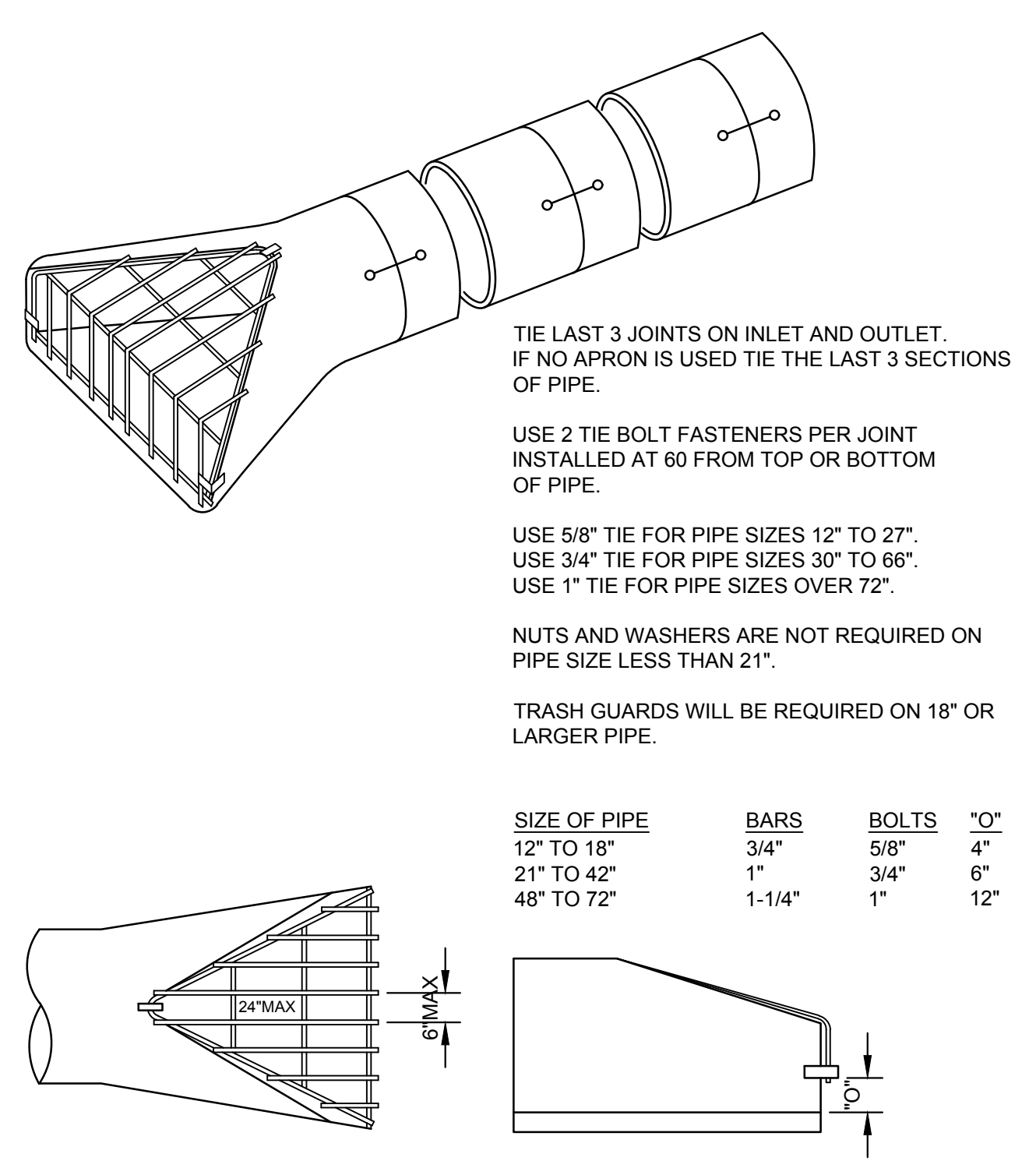
**1**  
C501  
**CATCH BASIN MANHOLE DETAIL**  
NOT TO SCALE



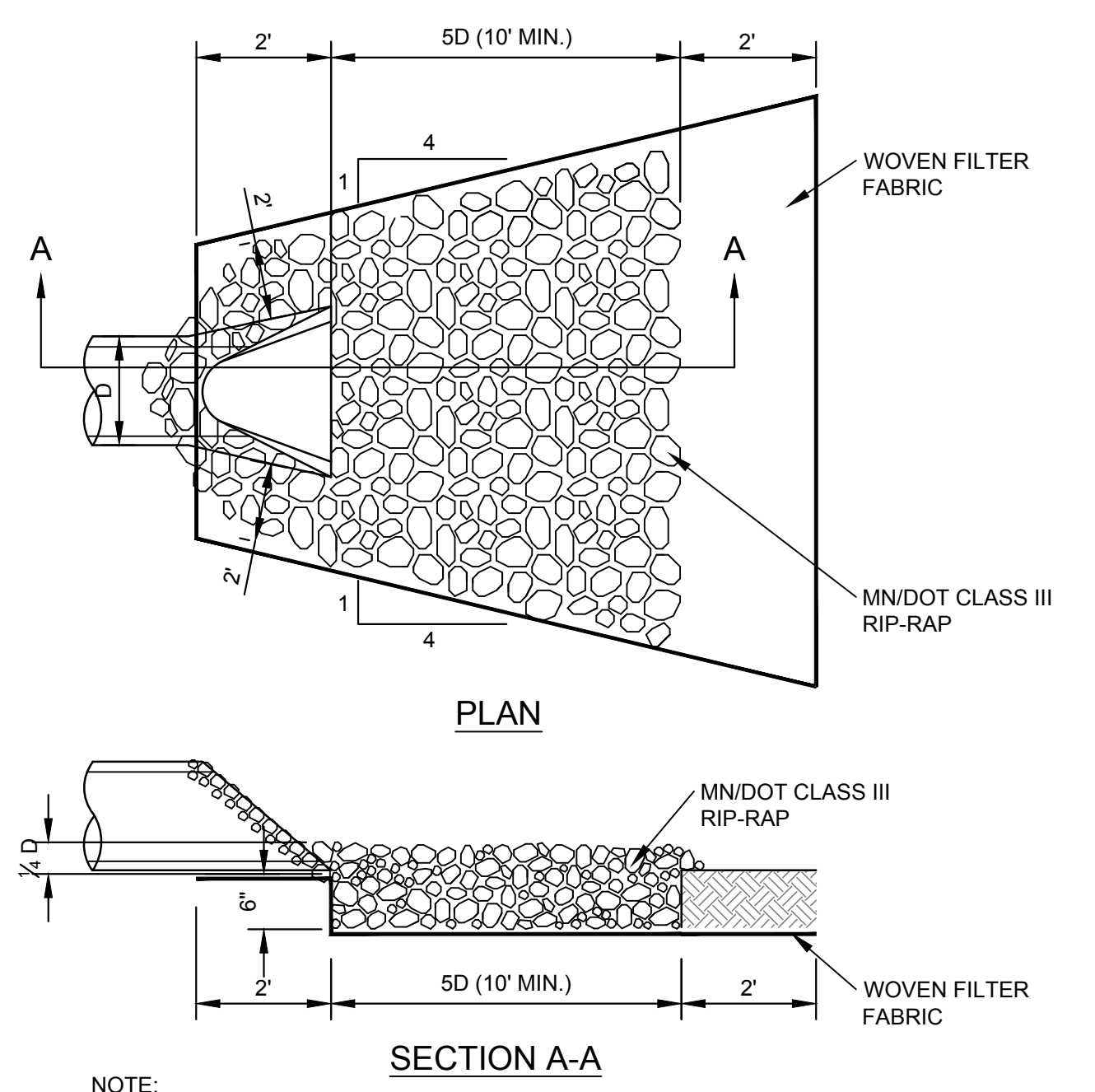
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C501  
**CATCH BASIN / MANHOLE FRAME DETAIL**  
NOT TO SCALE



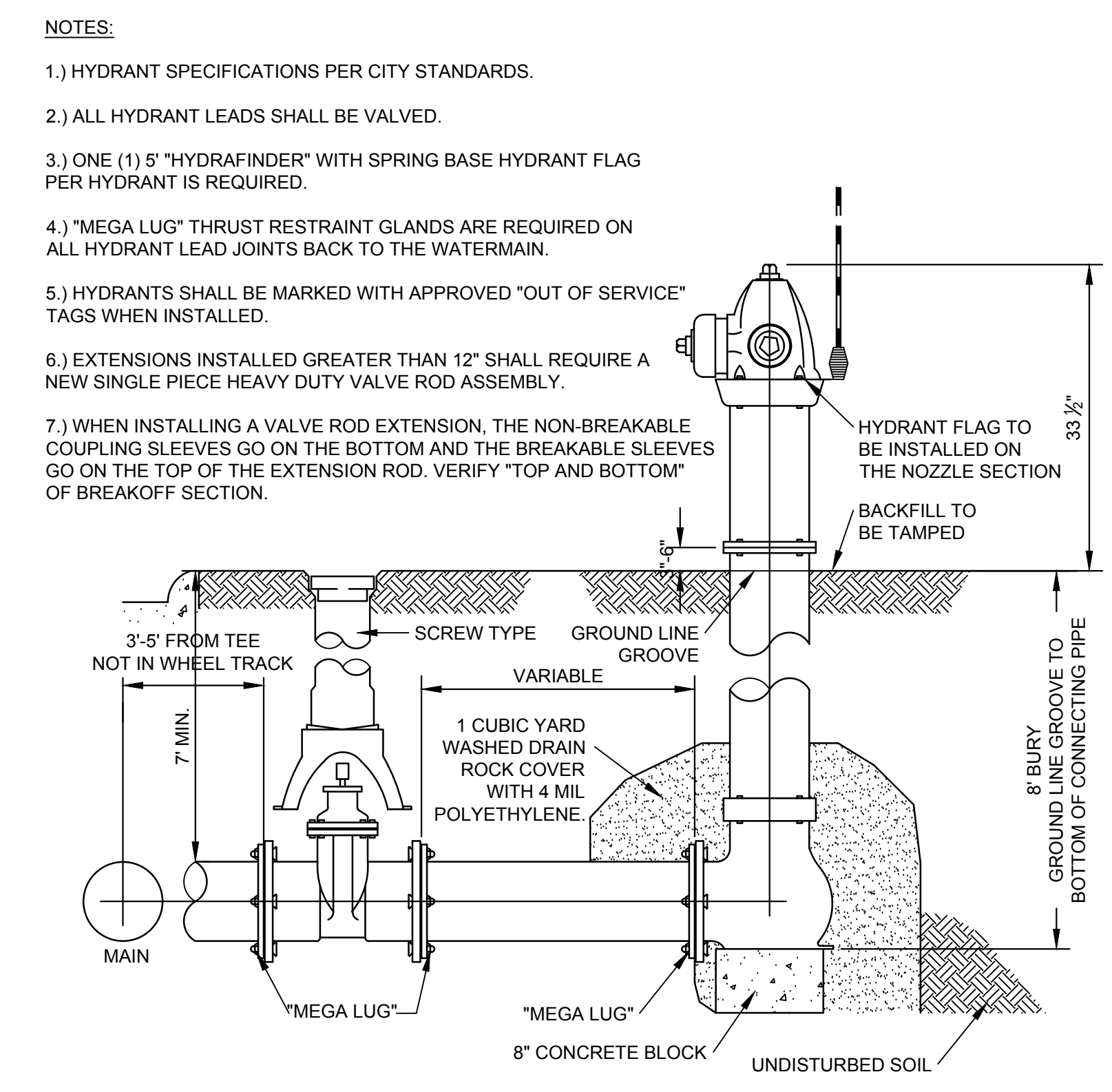
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C501  
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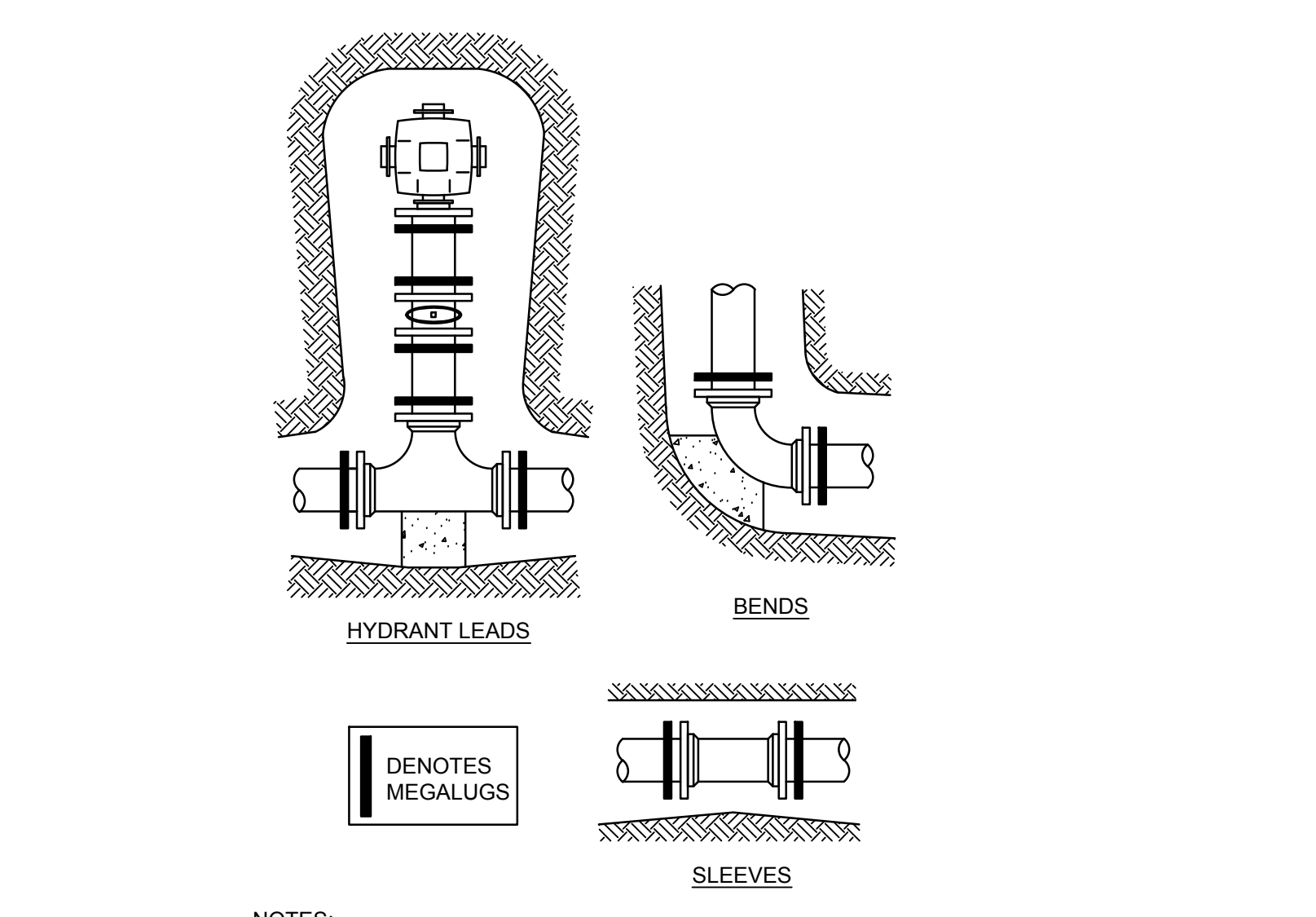
**4**  
C501  
**FLARED END SECTION DETAIL**  
NOT TO SCALE



**5**  
C501  
**RIP-RAP AT OUTLETS**  
NOT TO SCALE



**6**  
C501  
**HYDRANT & GATE VALVE INSTALLATION DETAIL**  
NOT TO SCALE



**7**  
C501  
**TYPICAL MEGALUG AND THRUST BLOCK LOCATIONS**  
NOT TO SCALE

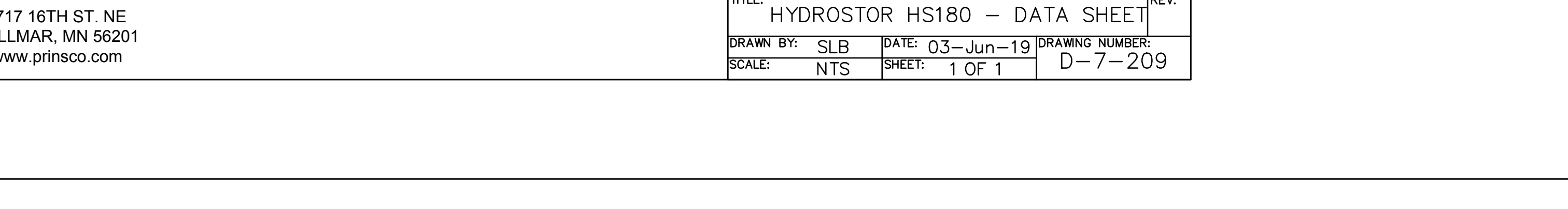
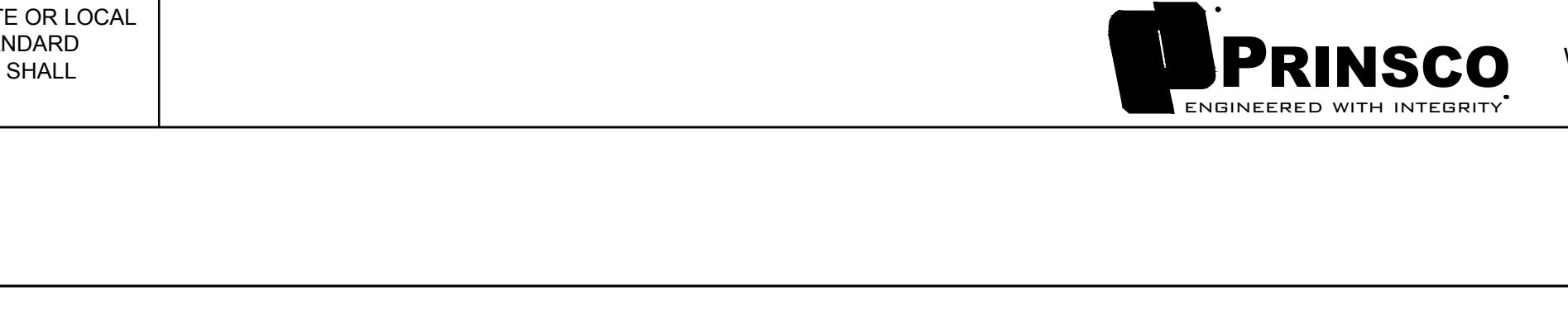
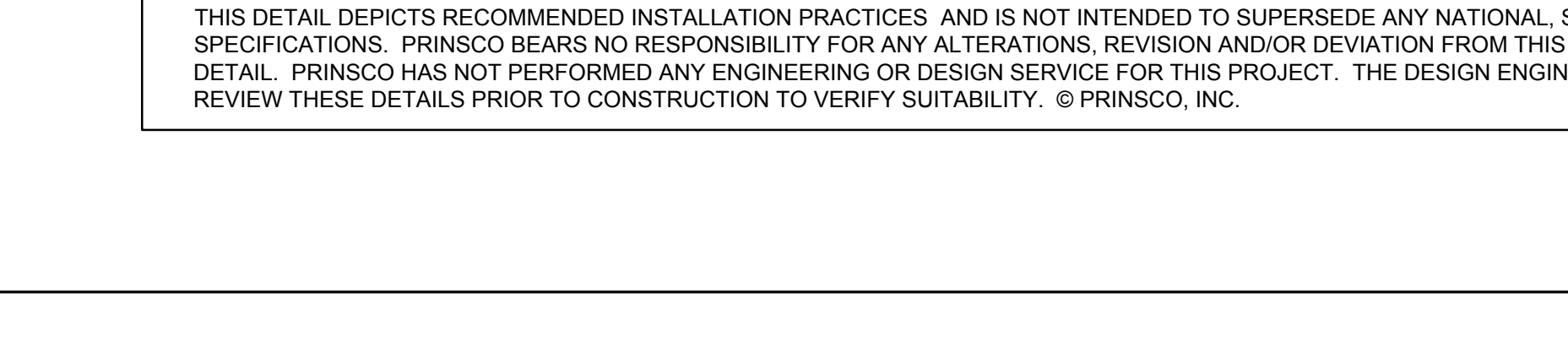
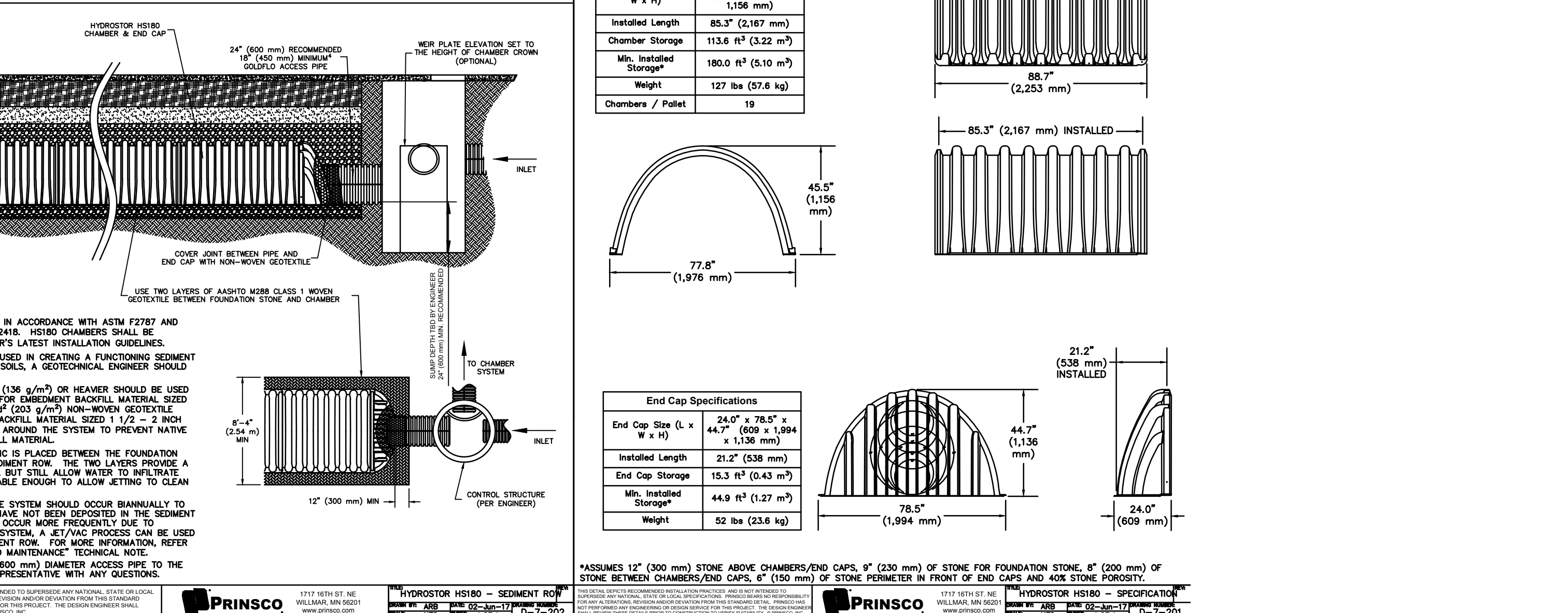
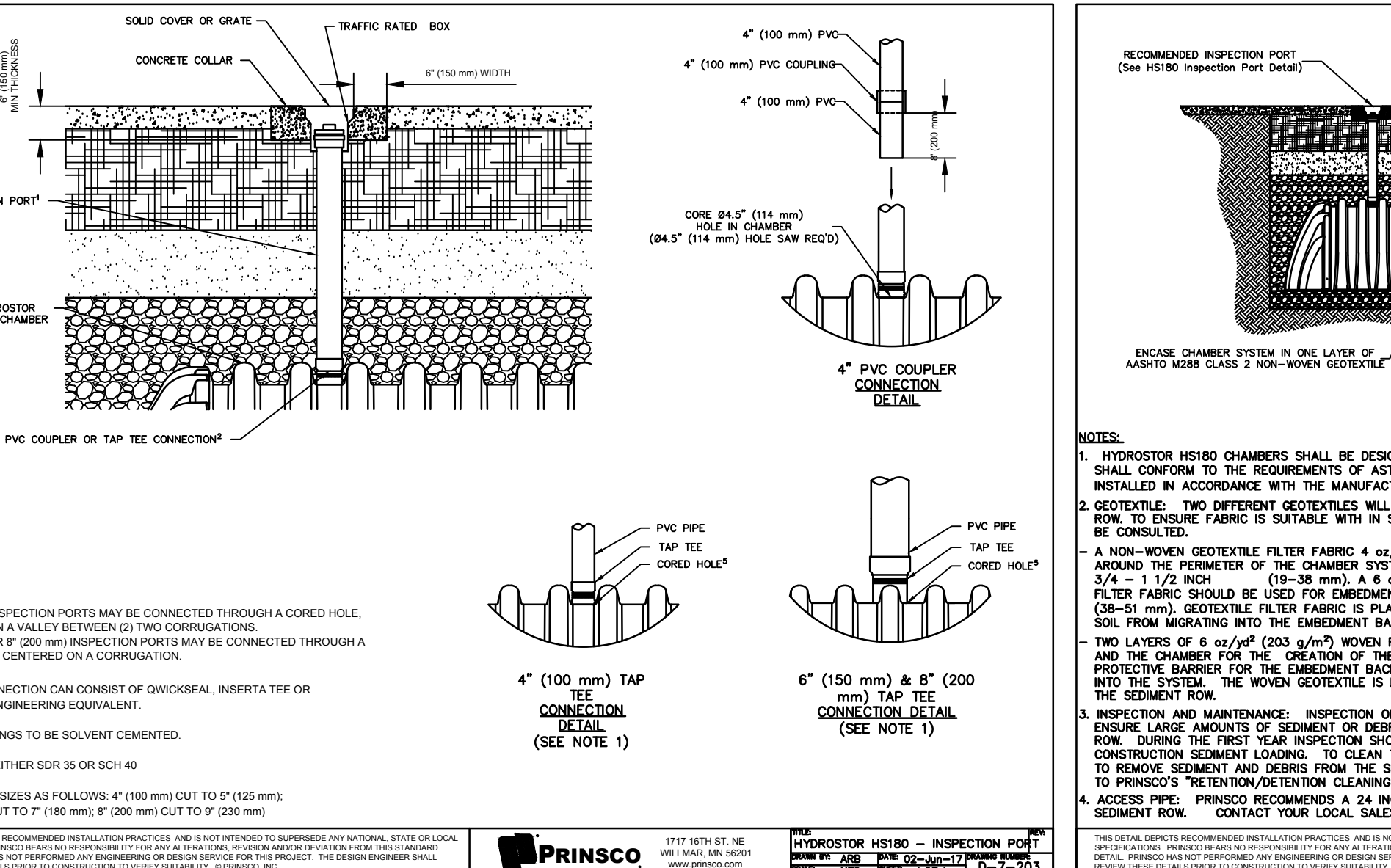
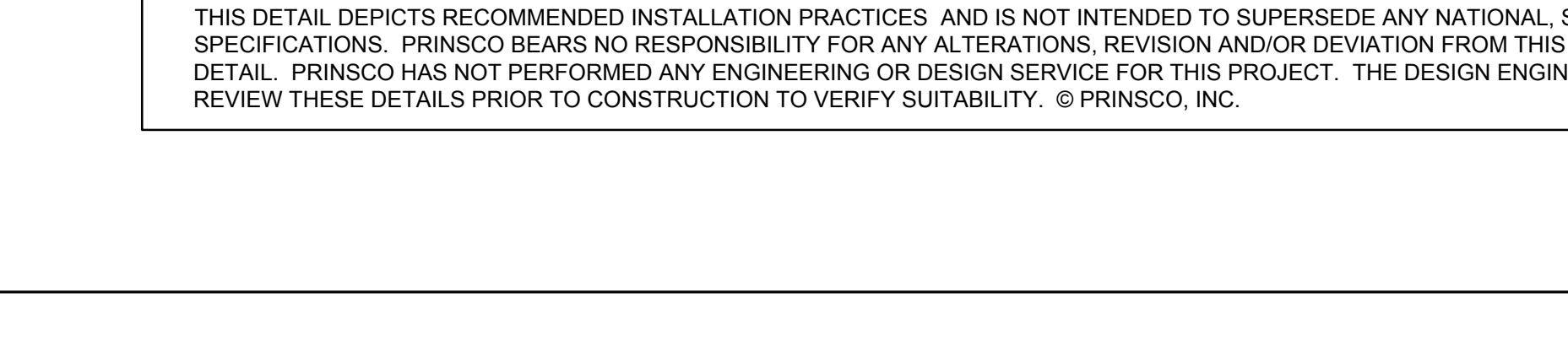
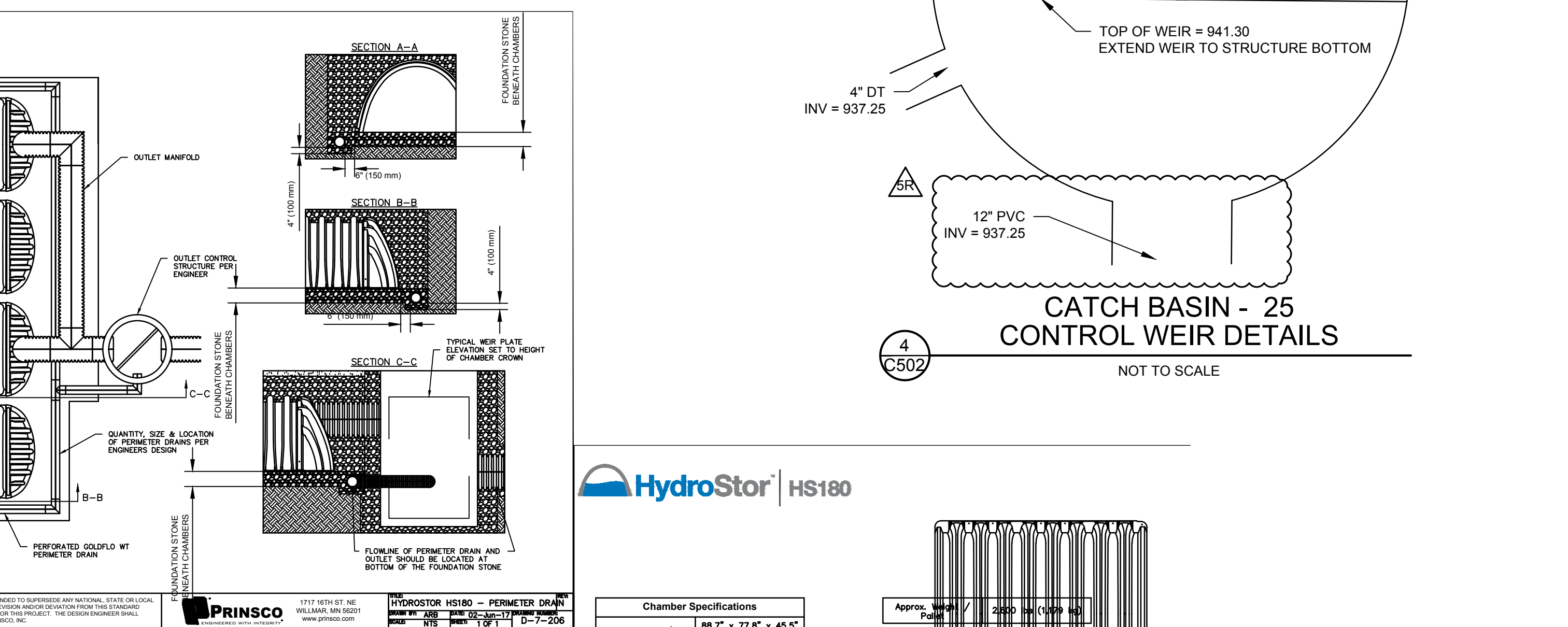
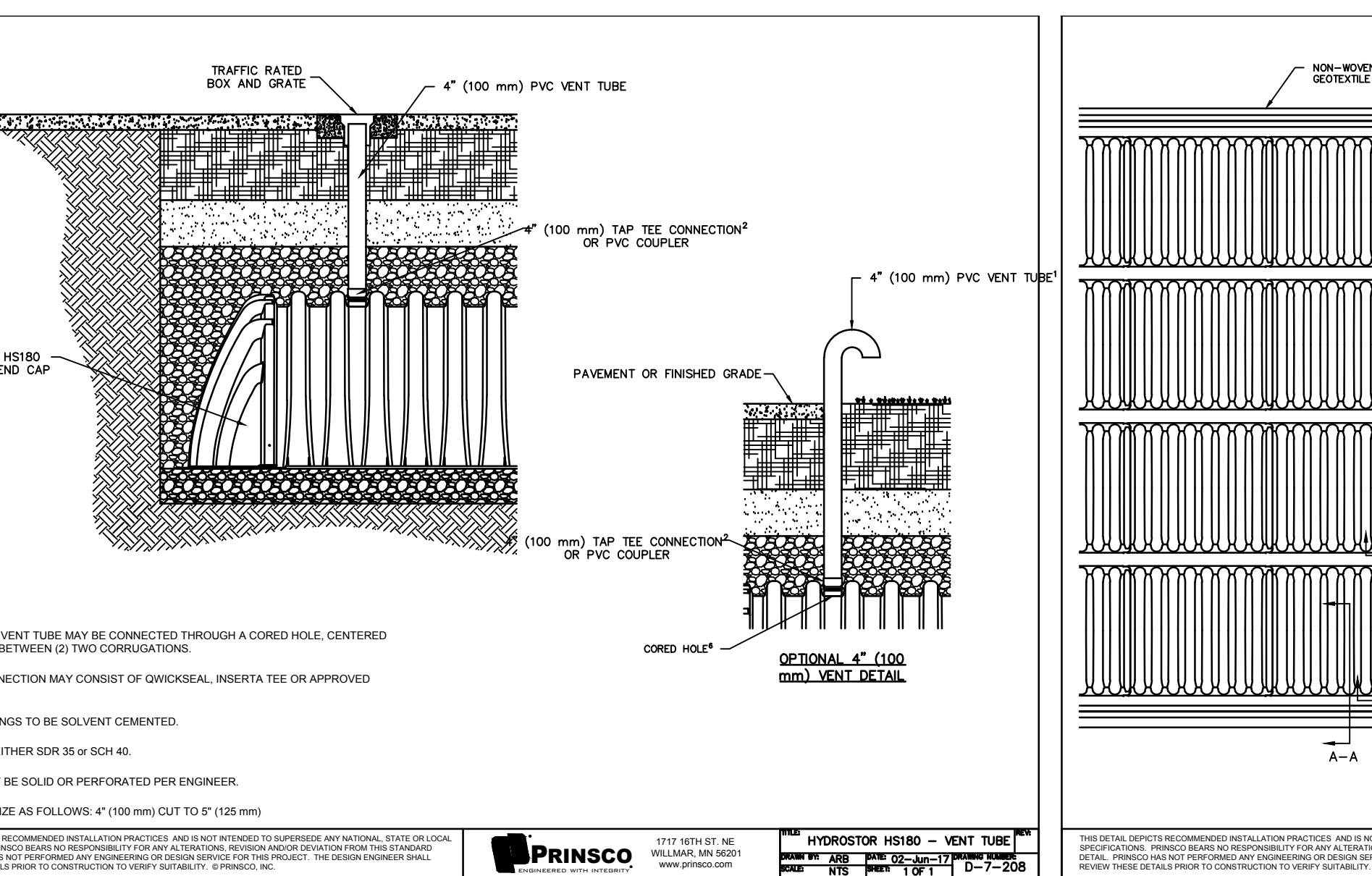
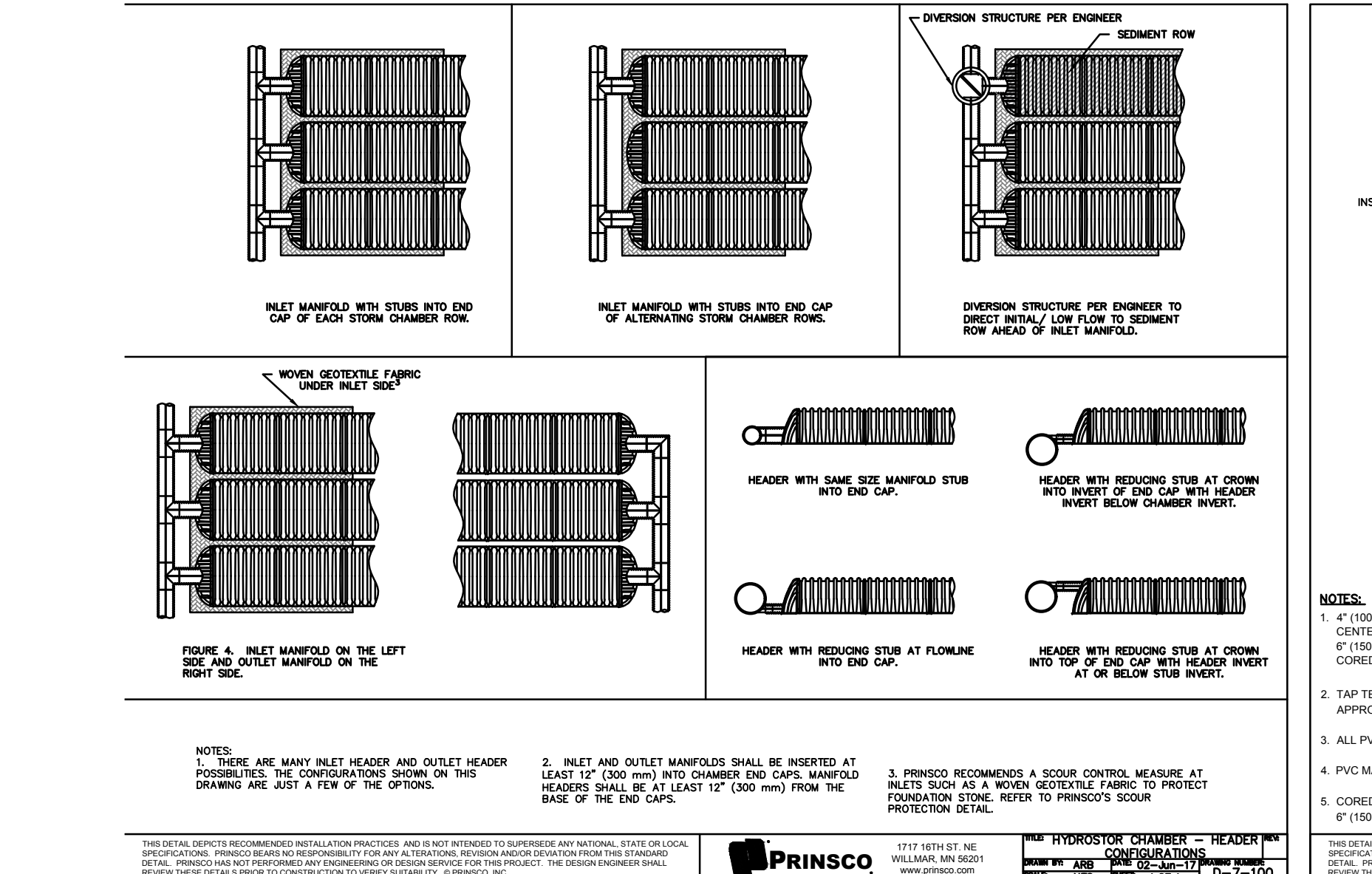
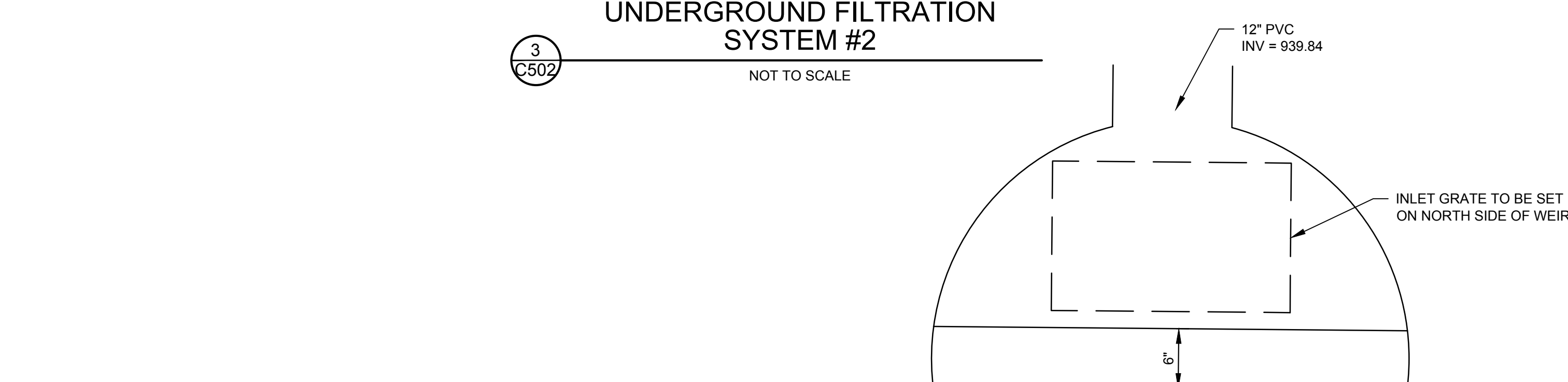
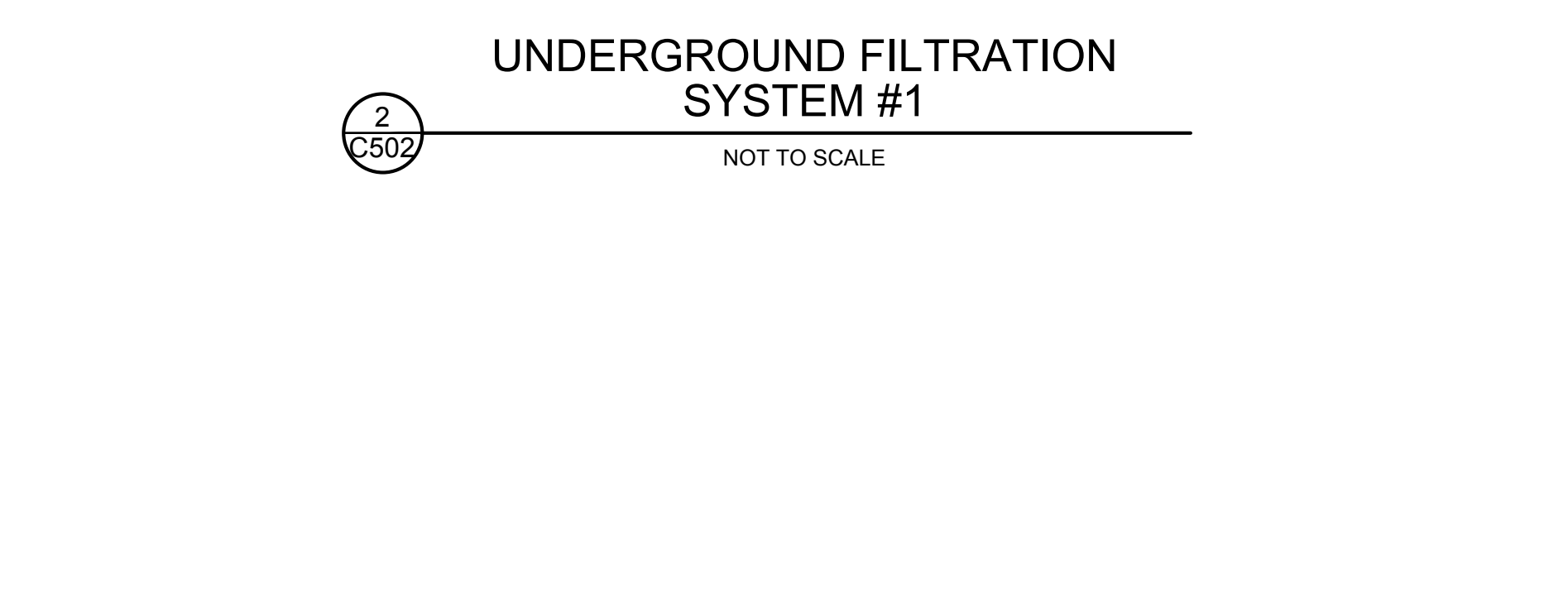
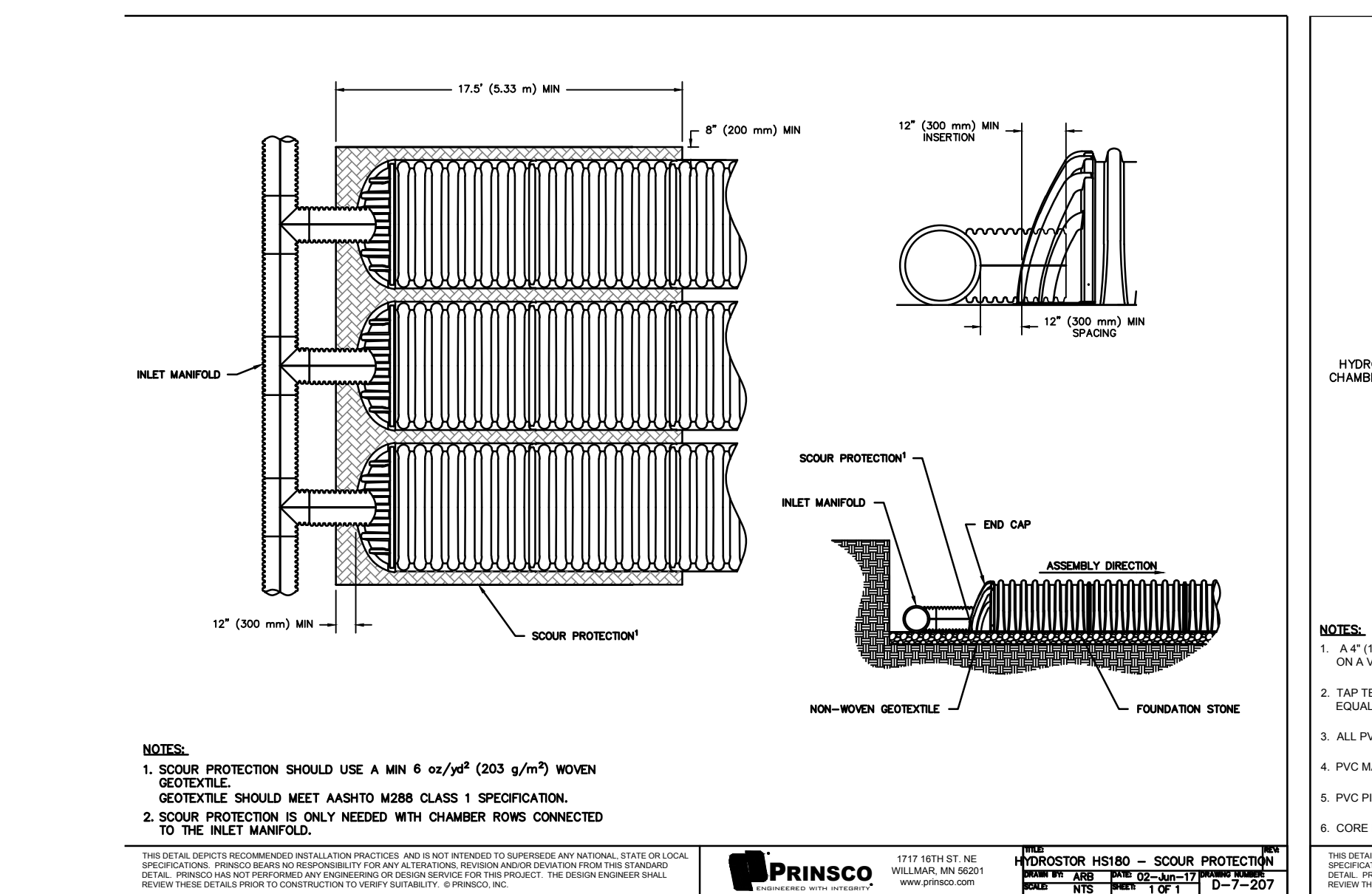
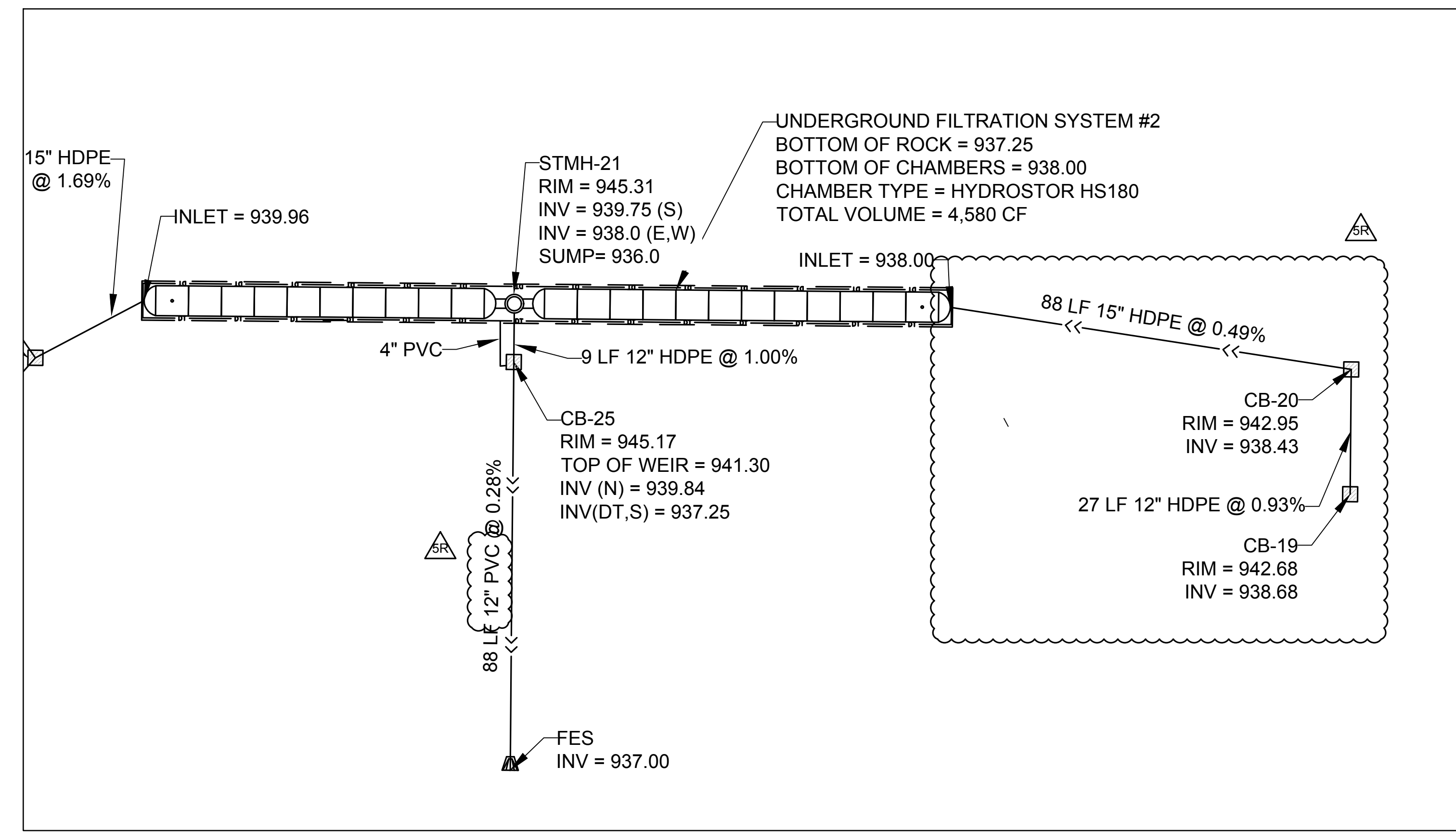
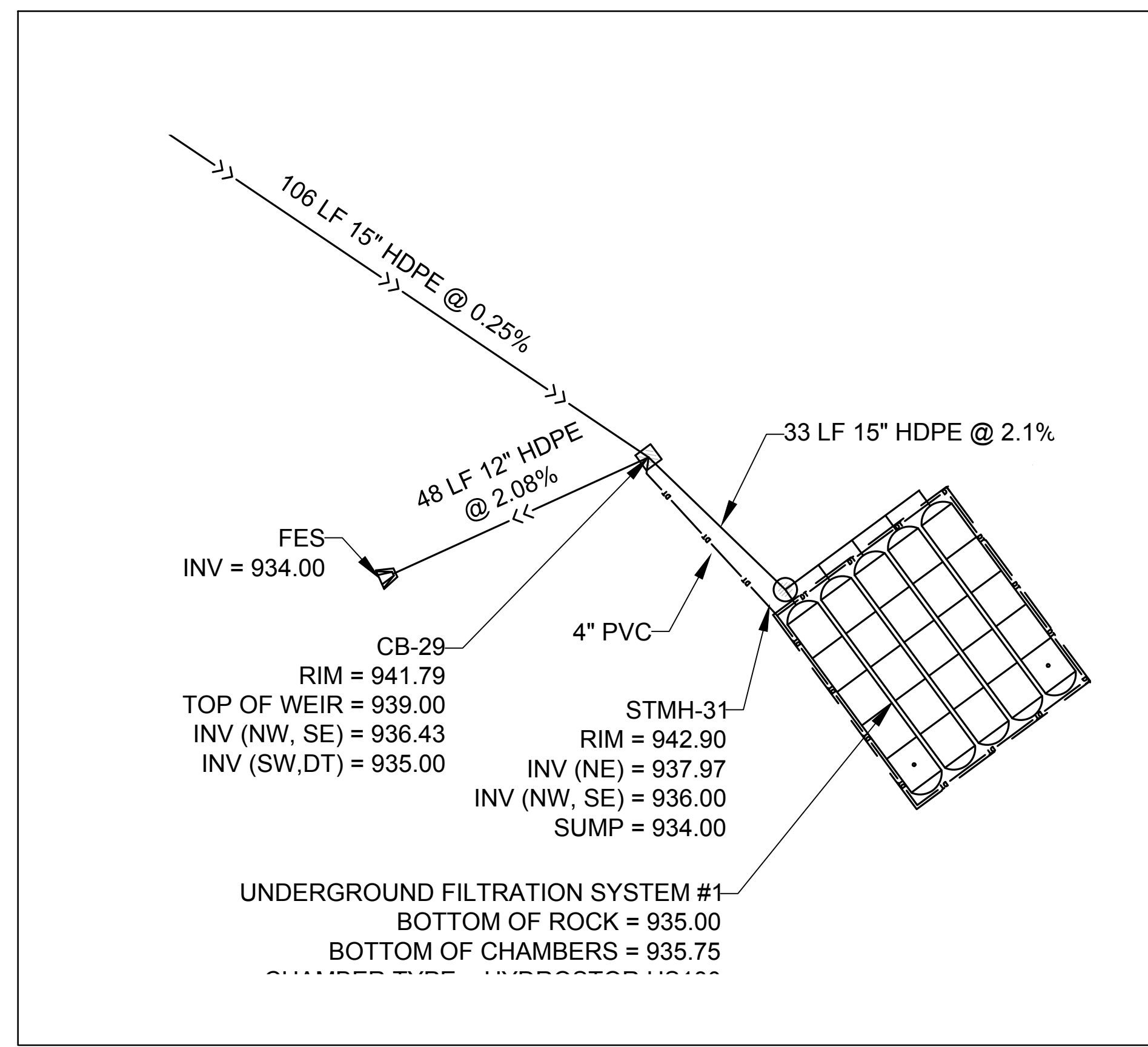
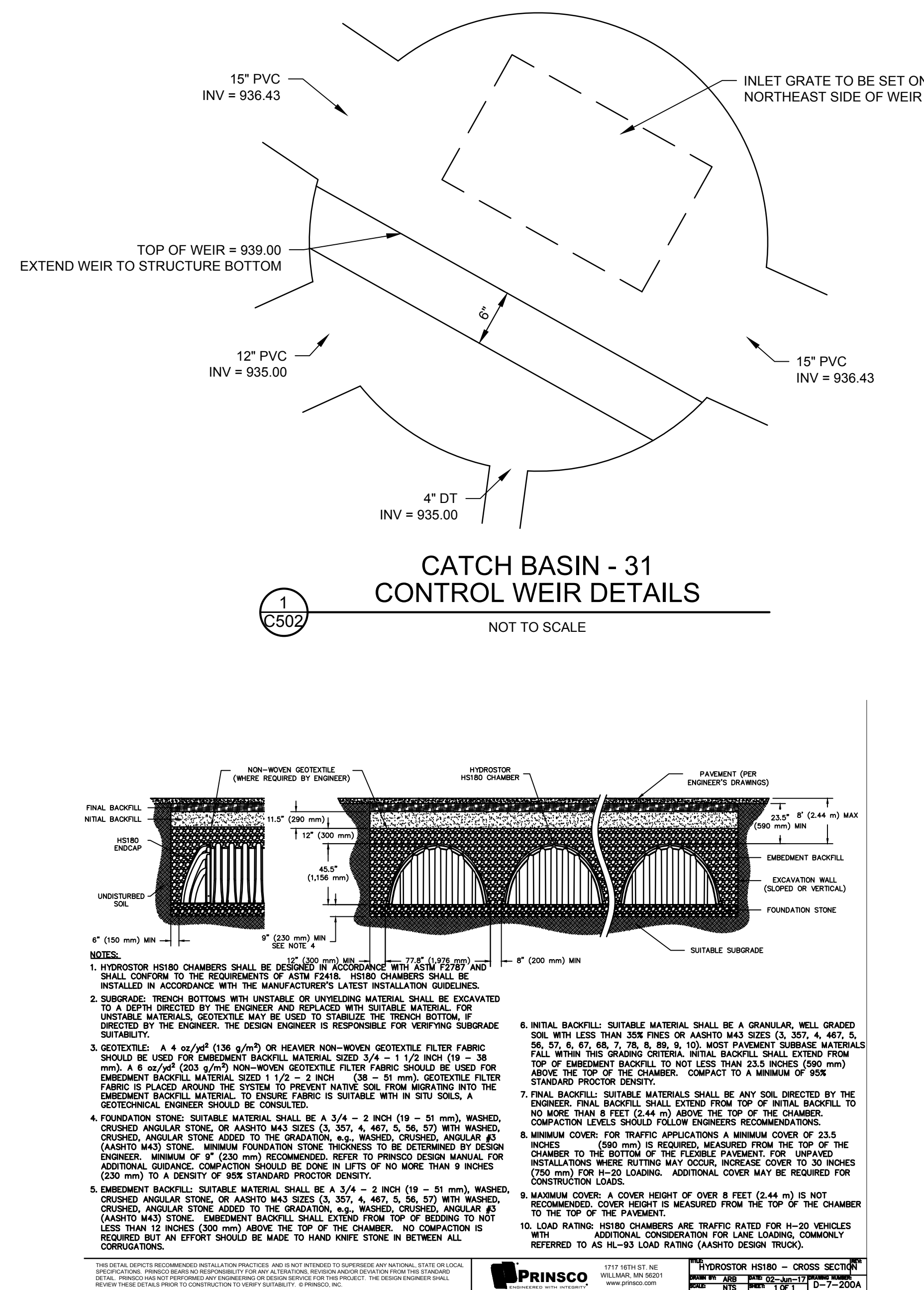
- NOTES:**
- 1.) HYDRANT SPECIFICATIONS PER CITY STANDARDS.
  - 2.) ALL HYDRANT LEADS SHALL BE VALVED.
  - 3.) ONE (1) 5" HYDRAFINDER WITH SPRING BASE HYDRANT FLAG PER HYDRANT IS REQUIRED.
  - 4.) "MEGA LUG" THRUST RESTRAINT GLANDS ARE REQUIRED ON ALL HYDRANT LEAD JOINTS BACK TO THE WATERMAIN.
  - 5.) HYDRANTS SHALL BE MARKED WITH APPROVED "OUT OF SERVICE" TAGS WHEN INSTALLED.
  - 6.) EXTENSIONS INSTALLED GREATER THAN 12' SHALL REQUIRE A NEW SINGLE PIECE HEAVY DUTY VALVE ROD ASSEMBLY.
  - 7.) WHEN INSTALLING A VALVE ROD EXTENSION, THE NON-BREAKABLE COUPLING SLEEVES GO ON THE BOTTOM AND THE BREAKABLE SLEEVES GO ON THE TOP OF THE EXTENSION ROD. VERIFY "TOP AND BOTTOM" OF BREAKOFF SECTION.

SIZE OF PIPE	BAR	BOLTS	"O"
12" TO 18"	3/4"	5/8"	4"
21" TO 42"	1"	3/4"	6"
48" TO 72"	1-1/4"	1"	12"

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Registration Number 44592

**DETAILS**  
**C502**

**HydroStor HS180**

Chamber Specifications	
Chamber Size (L x W x H)	88.7" x 77.8" x 45.5" (2263 x 1976 x 1156 mm)
Installed Length	85.3" (2167 mm)
Chamber Storage	113.4 m <sup>3</sup> (322 m <sup>3</sup> )
Min. Installed Storage*	180.0 m <sup>3</sup> (510 m <sup>3</sup> )
Weight	127 lbs (57.6 kg)
Chambers / Palet	19

End Cap Specifications	
End Cap Size (L x W x H)	24.0" x 78.5" x 44.7" (609 x 1994 x 1136 mm)
Installed Length	21.2" (538 mm)
End Cap Storage	15.3 m <sup>3</sup> (428 m <sup>3</sup> )
Min. Installed Storage*	44.9 m <sup>3</sup> (127 m <sup>3</sup> )
Weight	52 lbs (23.6 kg)



# Minnesota Wetland Conservation Act

## Notice of Decision

Local Government Unit (LGU) <b>Minnehaha Creek Watershed District</b>	Address <b>15320 Minnetonka Blvd          Minnetonka, MN 55391</b>
--	---

### 1. PROJECT INFORMATION

Applicant Name <b>The Blake School (Marc Bogursky)</b>	Project Name <b>The Blake School Delineation</b>	Date of Application <b>12/3/2014          12/23/2014          (complete)</b>	Application Number <b>W14-49</b>
<input checked="" type="checkbox"/> Attach site locator map			

Type of Decision:

<input checked="" type="checkbox"/> Wetland Boundary or Type	<input type="checkbox"/> No-Loss	<input type="checkbox"/> Exemption	<input type="checkbox"/> Sequencing
<input type="checkbox"/> Replacement Plan	<input type="checkbox"/> Banking Plan		

Technical Evaluation Panel Findings and Recommendation (if any):

<input type="checkbox"/> Approve	<input type="checkbox"/> Approve with conditions	<input type="checkbox"/> Deny
Summary (or attach):  		

### 2. LOCAL GOVERNMENT UNIT DECISION

Date of Decision: <b>2/20/2015</b>
<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Approved with conditions (include below) <input type="checkbox"/> Denied

LGU Findings and Conclusions (attach additional sheets as necessary):

<p>The Blake School (Marc Bogursky) has applied for wetland boundary &amp; type approval for the wetlands located at the Blake School in the City of Hopkins (PID 1911721430006).</p> <p>A wetland delineation was conducted by Kjolhaug Environmental Services Company, Inc on October 9, 2014. A complete application was sent on December 23, 2014. Two wetlands were delineated on site. The boundaries were reviewed in the field by MCWD staff on October 22, 2014. MCWD staff were in agreement with the boundaries flagged in the field.</p> <p>Wetland 1 was classified as a Type 5 Shallow Open Water Wetland. The applicant requested that a portion of Wetland 1 be reviewed for incidental status. After review of MCWD permit #00-377 and evidence submitted by the applicant, MCWD found that there was evidence that there was a historic wetland in the area of Wetland 1. The MCWD found that contour elevations provided evidence of a closed depression and information from the tree survey suggested a dominance of hydrophytic vegetation. The MCWD found that the evidence from the survey suggested that the 915 contour was the historic wetland the boundary as trees on the survey showed a transition to upland at this contour. Therefore, any wetland area that exists today that is above the historic 915 contour would be</p>
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considered incidental wetland.

Wetland 2 was classified as a Type 1 Seasonally Flooded Basin. MCWD agrees with this determination.

Area A was identified as a constructed filtration basin and did not contain hydric soil indicators.

Area B did not meet wetland hydrology criteria.

MCWD approves the wetland boundary as delineated in the field and documented in the delineation report (Figure 2). This decision is valid for five years. A future project located on this property may require a permit from the MCWD.

For Replacement Plans using credits from the State Wetland Bank:

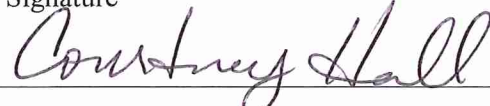
Bank Account #	Bank Service Area	County	Credits Approved for Withdrawal (sq. ft. or nearest .01 acre)

**Replacement Plan Approval Conditions.** In addition to any conditions specified by the LGU, the approval of a Wetland Replacement Plan is conditional upon the following:

- Financial Assurance:** For project-specific replacement that is not in-advance, a financial assurance specified by the LGU must be submitted to the LGU in accordance with MN Rule 8420.0522, Subp. 9 (List amount and type in LGU Findings).
- Deed Recording:** For project-specific replacement, evidence must be provided to the LGU that the BWSR "Declaration of Restrictions and Covenants" and "Consent to Replacement Wetland" forms have been filed with the county recorder's office in which the replacement wetland is located.
- Credit Withdrawal:** For replacement consisting of wetland bank credits, confirmation that BWSR has withdrawn the credits from the state wetland bank as specified in the approved replacement plan.

**Wetlands may not be impacted until all applicable conditions have been met!**

LGU Authorized Signature:

Signing and mailing of this completed form to the appropriate recipients in accordance with 8420.0255, Subp. 5 provides notice that a decision was made by the LGU under the Wetland Conservation Act as specified above. If additional details on the decision exist, they have been provided to the landowner and are available from the LGU upon request.		
Name <b>Courtney Hall</b>	Title <b>Wetland Specialist</b>	
Signature 	Date <b>3/20/15</b>	Phone Number and E-mail <b>(952) 473-2855 chall@minnehahacreek.org</b>

THIS DECISION ONLY APPLIES TO THE MINNESOTA WETLAND CONSERVATION ACT. Additional approvals or permits from local, state, and federal agencies may be required. Check with all appropriate authorities before commencing work in or near wetlands.

Applicants proceed at their own risk if work authorized by this decision is started before the time period for appeal (30 days) has expired. If this decision is reversed or revised under appeal, the applicant may be responsible for restoring or replacing all wetland impacts.

This decision is valid for three years from the date of decision unless a longer period is advised by the TEP and specified in this notice of decision.

### 3. APPEAL OF THIS DECISION

Pursuant to MN Rule 8420.0905, any appeal of this decision can only be commenced by mailing a petition for appeal, including applicable fee, within thirty (30) calendar days of the date of the mailing of this Notice to the following as indicated:

Check one:

<input checked="" type="checkbox"/> Appeal of an LGU staff decision. Send petition and \$0 fee (if applicable) to: <b>Minnehaha Creek Watershed District</b> <b>15320 Minnetonka Blvd</b> <b>Minnetonka, MN 55391</b>	<input type="checkbox"/> Appeal of LGU governing body decision. Send petition and \$500 filing fee to: Executive Director Minnesota Board of Water and Soil Resources 520 Lafayette Road North St. Paul, MN 55155
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### 4. LIST OF ADDRESSEES

<input checked="" type="checkbox"/> SWCD TEP member: <b>Stacey Lijewski – Stacey.Lijewski@co.hennepin.mn.us</b> <input checked="" type="checkbox"/> BWSR TEP member: <b>Ben Meyer – ben.meyer@state.mn.us</b> <input type="checkbox"/> LGU TEP member (if different than LGU Contact): <input type="checkbox"/> DNR TEP member: <input checked="" type="checkbox"/> DNR Regional Office (if different than DNR TEP member): <b>Brooke Haworth - brooke.haworth@state.mn.us</b> <input type="checkbox"/> WD or WMO (if applicable): <input checked="" type="checkbox"/> Applicant (notice only) and Landowner (if different): <b>Marc Bogursky (The Blake School) – mbogursky@blakeshool.org</b> <input checked="" type="checkbox"/> Members of the public who requested notice (notice only): <b>Matt Woodruff (Larson Engineering) – mwoodruff@larsonengr.com; Melissa Barrett (Kjolhaug Env Services) – melissa@kjolhaugenv.com</b> <input checked="" type="checkbox"/> Corps of Engineers Project Manager (notice only): <b>Melissa Jenny – Melissa.m.jenny@usace.army.mil</b> <input type="checkbox"/> BWSR Wetland Bank Coordinator (wetland bank plan applications only)
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### 5. MAILING INFORMATION

- For a list of BWSR TEP representatives: [www.bwsr.state.mn.us/aboutbwsr/workareas/WCA\\_areas.pdf](http://www.bwsr.state.mn.us/aboutbwsr/workareas/WCA_areas.pdf)
- For a list of DNR TEP representatives: [www.bwsr.state.mn.us/wetlands/wca/DNR\\_TEP\\_contacts.pdf](http://www.bwsr.state.mn.us/wetlands/wca/DNR_TEP_contacts.pdf)

➤ Department of Natural Resources Regional Offices:

NW Region:	NE Region:	Central Region:	Southern Region:
Reg. Env. Assess. Ecol. Div. Ecol. Resources 2115 Birchmont Beach Rd. NE Bemidji, MN 56601	Reg. Env. Assess. Ecol. Div. Ecol. Resources 1201 E. Hwy. 2 Grand Rapids, MN 55744	Reg. Env. Assess. Ecol. Div. Ecol. Resources 1200 Warner Road St. Paul, MN 55106	Reg. Env. Assess. Ecol. Div. Ecol. Resources 261 Hwy. 15 South New Ulm, MN 56073

For a map of DNR Administrative Regions, see: [http://files.dnr.state.mn.us/aboutdnr/dnr\\_regions.pdf](http://files.dnr.state.mn.us/aboutdnr/dnr_regions.pdf)

- For a list of Corps of Project Managers: [www.mvp.usace.army.mil/regulatory/default.asp?pageid=687](http://www.mvp.usace.army.mil/regulatory/default.asp?pageid=687) or send to:

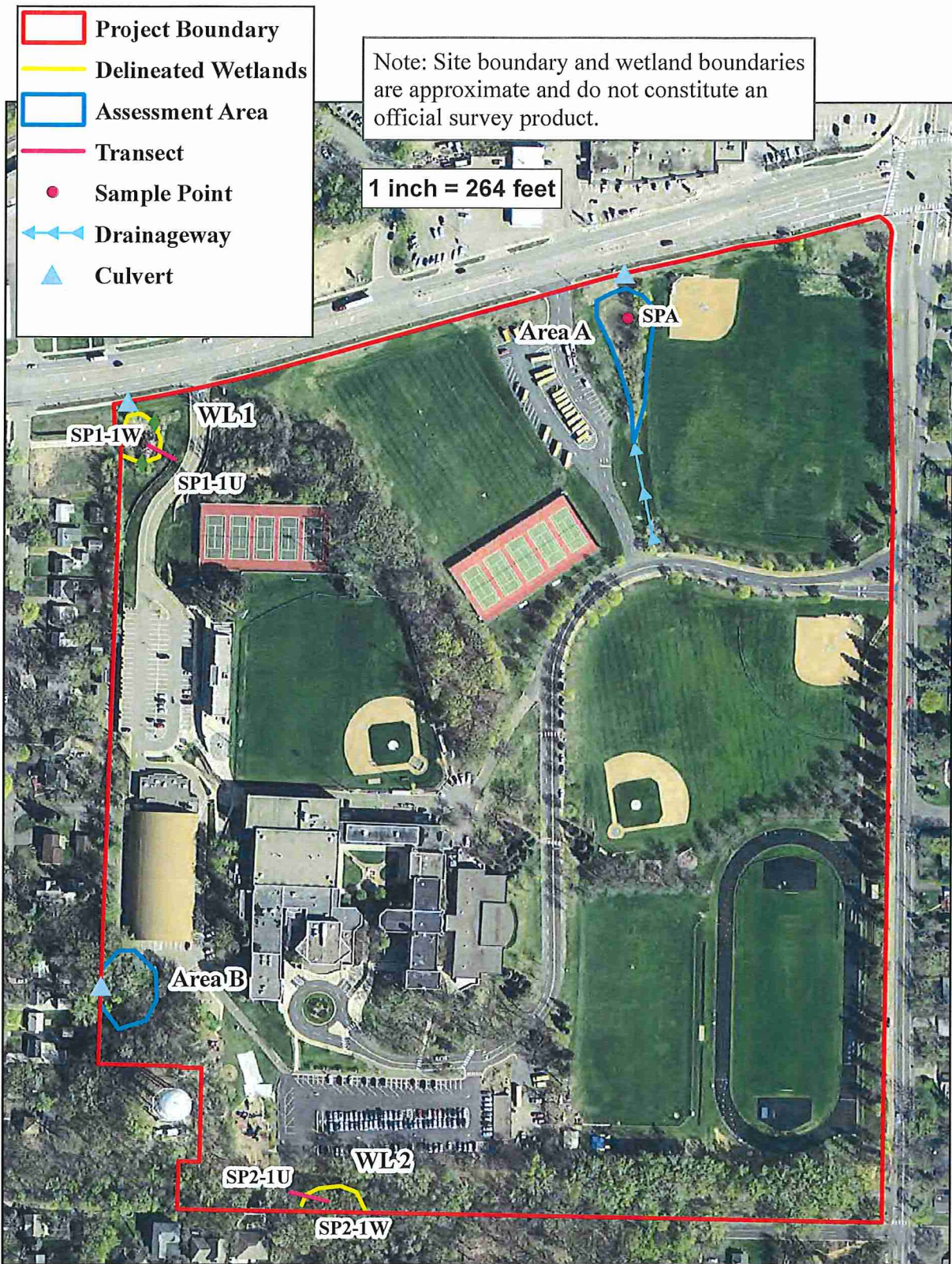
US Army Corps of Engineers  
 St. Paul District, ATTN: OP-R  
 180 Fifth St. East, Suite 700  
 St. Paul, MN 55101-1678

- For Wetland Bank Plan applications, also send a copy of the application to:  
 Minnesota Board of Water and Soil Resources  
 Wetland Bank Coordinator  
 520 Lafayette Road North

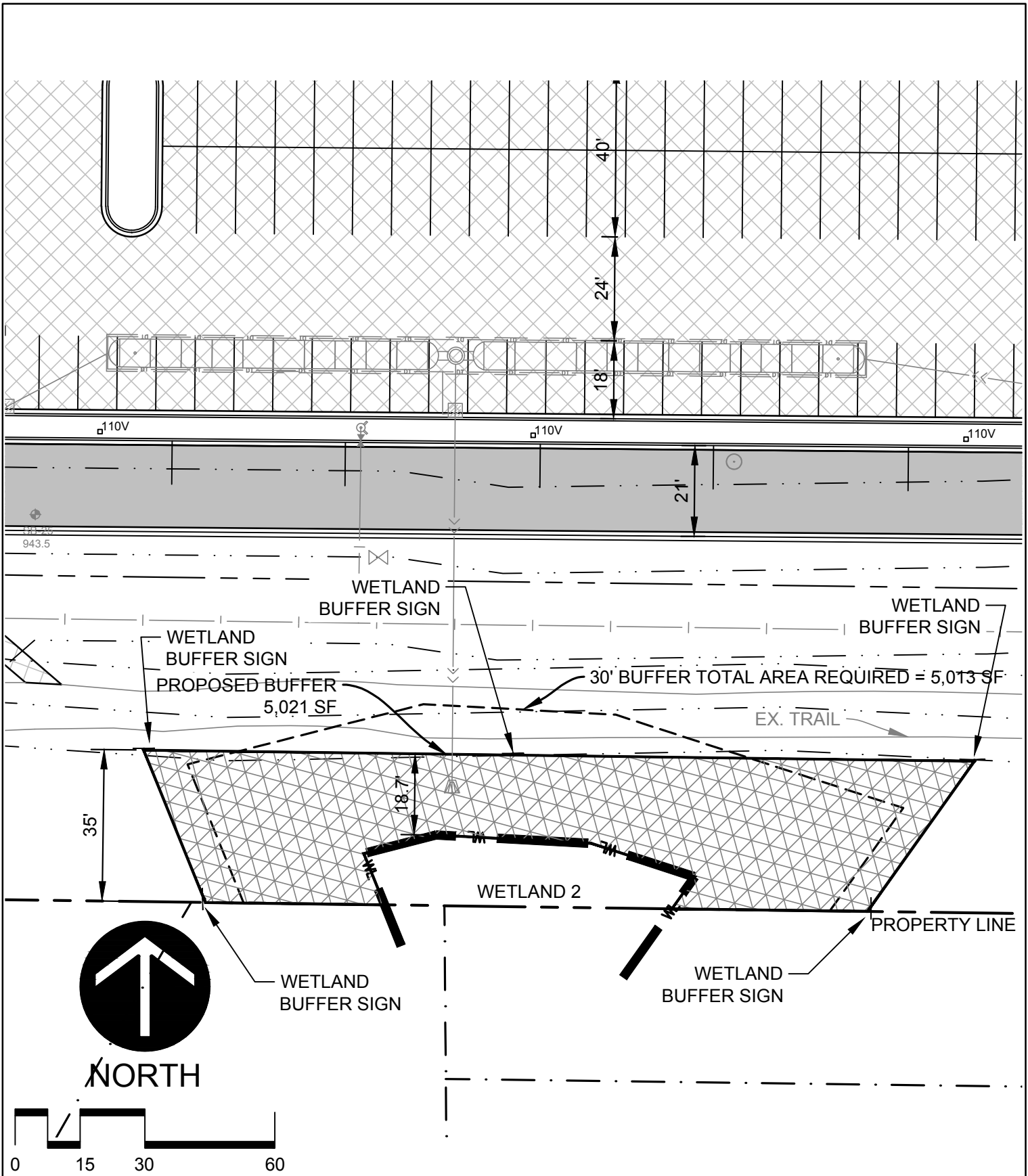
### 6. ATTACHMENTS

In addition to the site locator map, list any other attachments:

**Figure 2**



**Figure 2 - 2014 Delineated Wetlands (2012 Photograph)**



**Larson Engineering, Inc.**  
 3524 Labore Road  
 White Bear Lake, MN 55110  
 651.481.9120 (f) 651.481.9201  
 www.larsonengr.com

Sheet Title:	WETLAND BUFFER	Project #:	12146149.100
Project Title:	LOBBY ADDITION THE BLAKE SCHOOL	Attachment:	A1
Revision:		Issue Date:	06.05.19