

City of Spring Grove, MN
Spring Grove Industrial Park First Expansion
Infrastructure & Industrial Extension Project

Request for Proposals: Engineering Services

The City of Spring Grove is issuing a Request for Proposals (RFP) for engineering services related to the extension of sanitary sewer and water infrastructure to serve a 10 to 20-acre extension to the current industrial park. Sealed bids must be submitted and be clearly marked:

Request for Engineering Proposals
Spring Grove Industrial Park Expansion Project
City of Spring Grove
P. O. Box 218
Spring Grove, MN 55974
Attn: Jana Elton, City Administrator

All Proposals must be received no later than 4:00 p.m., Thursday, February 15, 2024.

The City of Spring Grove, MN is applying for a grant from the United States Department of Commerce's Economic Development Administration (EDA) to help complete necessary curb, gutter, and bituminous roadways in the current 10-acre industrial park, as well as fund a 10-20 acre expansion of our current industrial park to include a sanitary sewer and watermain extension. The proposed infrastructure will primarily serve a 10-20-acre vacant site that is undeveloped agricultural land immediately east of the current industrial park.

This Project involves the construction of curb, gutter, and roadways in the current industrial park as well as construction/extension of city water and sewer in the proposed additional acreage. As shown in the attached maps, the sewer and water infrastructure would connect to existing infrastructure owned and operated by the City of Spring Grove. The planned development of the site involves a proposed 7-9 lot industrial park on 10-20 acres. The expansion area has not been set and is somewhat flexible to ensure that the expansion is the correct size and layout to be most successful.

As required by the U.S. Department of Commerce Economic Development Administration, the Architectural/Engineering and Inspection services shall be selected competitively by sealed bids (formal advertising). The project price shall be separated into four phases, which are Phase 1- NEPA Environmental Narrative, Phase 2- Preliminary Engineering Report, Phase 3- Design/Bidding and Phase 4- Construction/Project Inspection Phase. Fees shall be on a fixed-price basis; the use of the cost-plus-a percentage-of-cost and percentage forms of compensation are not eligible for EDA participation.

The City of Spring Grove will evaluate the proposals in their entirety for all Phases and will select one respondent, based upon the criteria described herein. The City of Spring Grove intends to award a contract for Phase 1 and Phase 2, initially, as this work is required for the EDA grant application. The City of Spring Grove will award a separate contract for Phases 3 and 4 upon award of the EDA grant and reserves the right to not contract for those services if the EDA grant is not awarded. Please see enclosed Economic Development Administration Architect/Engineer Contracts Checklist for guidance. The City of Spring Grove is required to provide this checklist to the EDA for approval for the services in Phase 3 and 4, which are EDA grant reimbursable expenses.

Background

As shown in the attached drawings, the proposed project involves the development of curb, gutter, and bituminous roadways in the current 10-acre industrial park, as well as fund a 10-20 acre expansion of our current industrial park to include a sanitary sewer and watermain extension in raw, undeveloped land. The land of the proposed development is currently privately owned but the owner has indicated interest in selling to the City for the expansion of the industrial park.

To position the entire 10 to 20 acre expansion for development, the proposed infrastructure project would extend sanitary sewer and water infrastructure from its nearest available source in the current industrial park. (See Attached Project Site Maps)

Scope of Work

NEPA Environmental Narrative - Phase 1

The National Environmental Policy Act (NEPA) requires Federal agencies to assess the potential environmental impacts associated with proposed federal actions, including the financial assistance that will be considered by the Federal EDA for this project. For reference, the NEPA obligations are established under 40 C.F.R. 1500-1508.

Services Sought - The selected engineering firm shall prepare an environmental narrative following the most current version of the attached *EDA Environmental Narrative Requirements*.

Preliminary Engineering Report - Phase 2

The Federal EDA is required to complete an engineering review for all construction and design projects before making an award. The City of Spring Grove must provide a preliminary engineering report for the proposed project with the application to the Federal EDA.

Services Sought - The selected engineering firm shall prepare a preliminary engineering report following the most current version of the attached *EDA Preliminary Engineering Report Requirements*.

Design and Bidding - Phase 3

This phase will require design and bidding services necessary to serve the development area with roadways, curb and gutter, sanitary sewer, and watermain.

Services Sought - The selected engineering firm will guide the City of Spring Grove through the design and engineering of the project, preparation of complete and accurate construction drawings. The firm will also be expected to guide the City of Spring Grove in adhering to all EDA funding requirements throughout the project.

Design/Bidding Phase Scope of Work is as follows:

- 1) Kick-Off meeting with key City staff to discuss the overall project objectives and goals, refine the scope of services if necessary, and get the project firmly started.
- 2) Data Collection of all relevant existing studies, reports, record drawings and data from the City of Spring Grove.
- 3) All necessary field survey work to design the project, including establishing appropriate property boundaries.
- 4) Prepare designs and submit formal design review submissions to the City of Spring Grove at 60% and 90% completion of the project.
- 5) Prepare bid ready technical and construction plans and specifications for this project. The front-end specifications shall be standard Economic Development Administration (EDA) front end documents and shall be tailored to meet the requirements of the Project. Assist the City of Spring Grove throughout the bidding process and make a recommendation of award after reviewing the received bids.
- 6) The consultant shall provide support services to assist the City of Spring Grove in obtaining bids from contractors. The bid period for this project will allow bidders adequate time to become familiar with the work. Bids shall be obtained electronically and shall meet all of the requirements of the EDA.
- 7) Prepare all necessary environmental and/or construction permits from appropriate State and local governmental agencies. This includes, but is not limited to, all permits required to work within the road right-of-way.
- 8) Coordinate the notification process for Disadvantaged Business Enterprises (DBEs) as required by the funding agency.
- 9) Prepare the Advertisements for Bid for publication in the *Caledonia Argus* and notify appropriate industry publications.

- 10) Prepare necessary copies of drawings, contract/bid documents and technical specifications, and distribute them to interested parties.
- 11) Conduct one Pre-Bid Meeting with interested contractors, representatives of regulatory and funding agencies, and the City of Spring Grove.
- 12) Respond to bidder general and technical questions.
- 13) Attend the Bid Opening, administer the receipt of bids, compare bids, check for compliance with the contract requirements, call references, confirm math and tabulate the results. Based upon this review, make a written recommendation for the award of the contract.
- 14) Modify Contract Documents to incorporate information included in bid addenda.
- 15) All engineering services must be in compliance with 2 CFR Appendix II to Part 200 - Contract Provisions for Non Federal Entity Contracts Under Federal Awards.

Construction/Project Inspection - Phase 4

Construction administration and inspection services will be required for this project. Phase 4 includes all work necessary to manage the day-to-day construction activities and to provide full-time construction inspection services.

Services Sought - The selected engineering firm will guide the City of Spring Grove through the construction administration and observation phases of the project. The firm will also be expected to guide the City of Spring Grove in adhering to all EDA funding requirements throughout the construction phase of the project.

Construction/Project Inspection Phase Scope of Work is as follows:

- 1) Construction Administration:
 - a) Prepare for and attend the preconstruction meeting.
 - b) Provide consultation and advice to the City of Spring Grove during construction and be available to meet with City of Spring Grove staff, the Contractor, and other parties throughout the construction phase of the project to discuss/resolve construction issues, construction progress, and to coordinate the work as needed.
 - c) Check detailed construction, shop and erection drawings submitted by the Contractor for compliance with the design concept and design intent.
 - d) Conduct all Davis Bacon Wage Confirmation interviews and provide reports

to the City of Spring Grove.

- e) Prepare supplementary sketches required to clarify/resolve any field construction problems that may arise due to actual field conditions encountered.
 - f) Respond to contractor general and technical questions.
 - g) Attend final review of the completed construction with representatives from the City of Spring Grove, the Contractor, and other concerned parties as needed, and prepare a letter to address any deficiencies, corrective actions required, etc.
 - h) Prepare record (i.e. "as-built") drawings based on construction information.
 - i) Print and distribute construction record drawings for distribution to the City of Spring Grove as required. Record drawings shall be furnished both in electronic PDF compatible format and electronically in AutoCAD compatible format on flash drive.
- 2) Construction Observation: Provide daily construction observation of the construction work in progress based on the Contractor's construction schedule. The engineer shall perform the following functions:
- a) Monitor materials used in the construction for compliance with project specifications.
 - b) Monitor quality of construction and verify compliance with project specifications.
 - c) Prepare site visit observation reports covering observations made of the work in progress, delays to construction, unusual events, etc.
 - d) Monitor project progress and report the same to the City of Spring Grove and to assist in the preparation of quarterly reports to Federal EDA.
 - e) Review and approve monthly Payment Requisitions from the Contractor to confirm quantities of work completed and certify payment requisitions for payment by the City of Spring Grove.
 - f) Interpret the contract plans and specifications and check the construction activities for compliance with the intent of the design.
 - g) Attend meetings as required for coordination among officials from the City of Spring Grove and the Contractor or any state and local agencies (as

- required).
- h) Confirm Substantial Completion of the project and prepare Certificate of Substantial Completion. Prepare a Punch List of outstanding items of work to be completed after Substantial Completion in order to achieve final completion of the construction work.
 - i) Maintain project record ("as-built") information for the development of final record drawings and final project report.
- 3) EDA Funding Requirements During Construction. Tasks that are required to be completed during construction pursuant to the rules and regulations for EDA funded projects include:
- a) Collect and check weekly certified payroll reports from the Contractor and all subcontractors on the project.
 - b) Collect weekly signed Statement of Compliance (wages) from Contractor and Subcontractors.
 - c) Verify hours worked and rates paid for the Contractor and all subcontractors on the project.
 - d) Maintain a file of weekly certified payroll reports.
 - e) Submit a copy of the weekly certified payroll reports to the City of Spring Grove and Federal EDA.
 - f) Conduct at least two (2) (minimum) wage rate interviews to confirm/verify wage rates.
 - g) Document "Buy American" provisions.
 - h) Maintain documentation and records for all equipment and products purchased in accordance with the "Buy American" provisions. Required documentation includes: (1) U.S.-made components; (2) National waivers; (3) project-specific waivers; and (4) "De Minimis" components.
 - i) Prepare a monthly report of project completion status.

Proposal Specifications:

Statement of Qualifications (SOQ) and Price Proposal specifications:

- 1) Statement of Qualifications (SOQ) must include the following information:
 - a) Executive Summary;
 - b) Firm and team history. Include names, qualifications and resumes of key

personnel to participate in the project including educational background and employment history;

- c) Description of other similar infrastructure design and construction inspection projects managed and designed by this firm similar to this project. Please provide a list of similar projects and up to three references, contact names and telephone numbers;
 - d) Provide specific evidence of familiarity with the construction and grant procedure of the United States Economic Development Administration. Please provide a list of previous EDA funded projects that your firm has participated in;
 - e) Statement of availability and location of key personnel to work on the project;
 - f) Brief description of the firm's approach to planning, designing and, implementing this project;
 - g) Price Proposal
- 2) Quantities: Two (2) hard copies and One (1) electronic copy of the Statement of Proposal to include the provided Price Proposal Form. Proposals shall be limited to 40 pages single sided or 20 double sided pages.
- 3) As required by the U.S. Department of Commerce Economic Development Administration, the project price shall be separated into NEPA Environmental Narrative Phase, Preliminary Engineering Report Phase, Design/Bidding Phase and Construction/Project Inspection Phase. Fees shall be on a fixed-price basis; the use of the cost-plus-a percentage-of-cost and percentage forms of compensation are not eligible for EDA participation. Please see enclosed Economic Development Administration Checklist for Architect/Engineer contracts for guidance. The City of Spring Grove is required to provide this checklist to the EDA for approval. All proposed fees shall include all labor, materials, and expenses to complete the work. This includes, but is not limited to; consultations, surveys, soil investigations, supervision, "as-built" drawings, travel expenses and incidental costs.
- 4) Schedule (dates are subject to change):

Award of Phase 1 and 2 Engineering Services Contract	February 20, 2024
Phase 1 and 2 Work Begins	February 21, 2024
Complete Phase 1 and Phase 2 Work	April 10, 2024
EDA Grant Application Submission	April 17, 2024
EDA Grant Award*	June 11, 2024
Award of Phase 3 & 4 Engineering Services Contract	July 16, 2024
Design Begins	July 17, 2024
Design Complete	October 1, 2024
EDA Review of design and bid documents	October 8, 2024
Advertisement for Bids	October 15, 2024
Bid Opening	November 19, 2024
Construction Contract Award	November 19, 2024
Pre-Construction Conference	March 3, 2025
Issuance of Notice to Proceed	March 3, 2025
Substantial Completion Date	July 15, 2025
Final Completion Date/Acceptance by Owner	September 1, 2025

* Timeline for EDA Grant Review and Award is an estimate.

PROPOSAL INSTRUCTIONS

Preparation of Proposals

- 1) The firm shall submit the price proposal upon the forms attached.
- 2) The proposal must be signed with ink by the individual, by one or more members of the partnership, by one or more members or officers of each firm representing a joint venture, by one or more officers of a corporation, or by an agent of the consultant legally qualified and acceptable to the owner. If the proposal is made by an individual, his or her name and post office address must be shown; by a corporation, the name of the corporation and its business address must be shown, together with the name of the state in which it is incorporated, and the names, titles, and business address of the President, Secretary and Treasurer.
- 3) All questions shall be submitted in writing to and received by the Spring Grove Economic Development Authority Executive Director, Courtney Bergey Swanson, at courtney.bergey@cedausa.com, a minimum of seven (7) days prior to the

scheduled opening. The Director will then forward both the question and the response to all prospective firms, who have made themselves known to the Director.

- 4) All materials submitted in response to this invitation will become the property of the City of Spring Grove. All expenses incurred by responding to this invitation shall be the responsibility of the firm.

RFP Evaluation

- 1) A Review Committee, consisting of City staff shall consider the following factors as an integral part of the proposal evaluation process:
 - a) *Roadway, Sewer and Water System Experience.* Ability, capacity and skill to perform the proposed work as evidenced by the number and type of similar projects;
 - b) *Economic Development Administration Engineering Design and Construction Inspection Experience.* Experience with Economic Development Administration grant processes and requirements as evidenced by a list of previous EDA funded engineering work;
 - c) *Firm History and Location.* Past history of the firm, its knowledge of the area and ability to readily serve the project; and
 - d) *Price.* Total price of engineering design and inspection services.
- 2) Proposal Weighting/Evaluation
 - a) Design and Construction Inspection work experience - 35%; and
 - b) Economic Development Administration Engineering Design and Construction Inspection Experience - 20%; and
 - c) Firm History and Location - 20%; and
 - d) Total Price - 25%.

The Review Committee will then present its recommendation to the City Council for an award of bid.

- 3) The City of Spring Grove reserves the right to reject any or all proposals, to waive technicalities or to advertise for new proposals, if in the judgment of the Review Committee and the City Council, the best interest of the City of Spring Grove will be

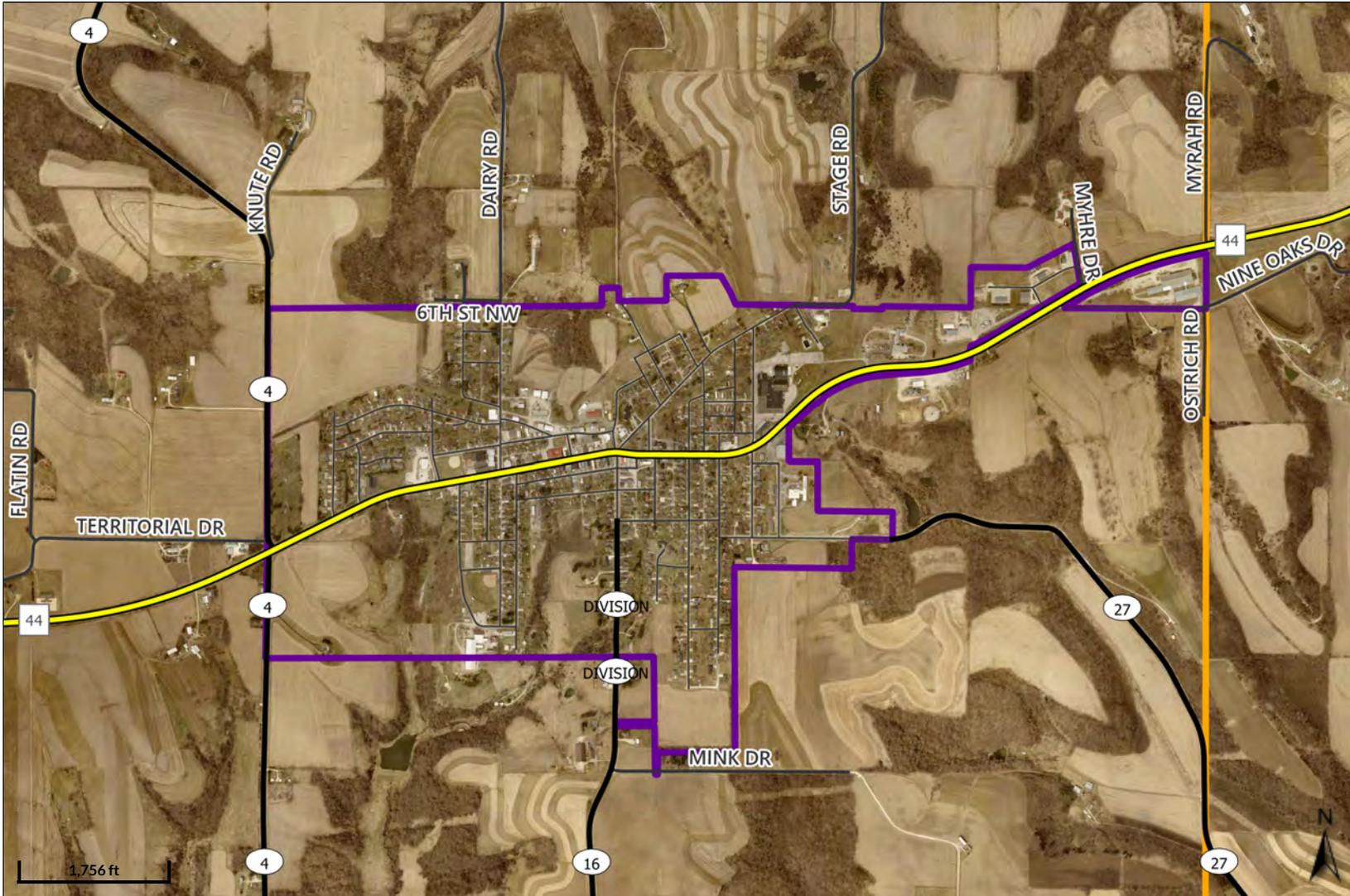
promoted thereby.

Award of Contract

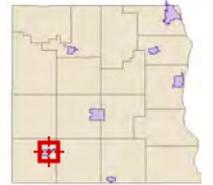
- 1) If a contract is to be awarded, the award will be made to the qualified firm whose proposal complies with all the requirements prescribed in the specifications page(s) and evaluation section of this document, and at the sole discretion of the City of Spring Grove, demonstrates that selection of said firm is in the best interest of the City, as soon as practical after the opening, scheduled to happen on February 15, 2024. The successful firm will be notified at the address listed that the proposal has been accepted.
- 2) The Review Committee will rank firms or consultants based upon proposal evaluations.
- 3) The City of Spring Grove reserves the right to cancel the award of any contract at any time before the execution of such contract by all parties without any liability against the City.

Spring Grove Industrial Park Expansion
City Arial View

Created by: Spring Grove Economic Development Authority - RC



Overview



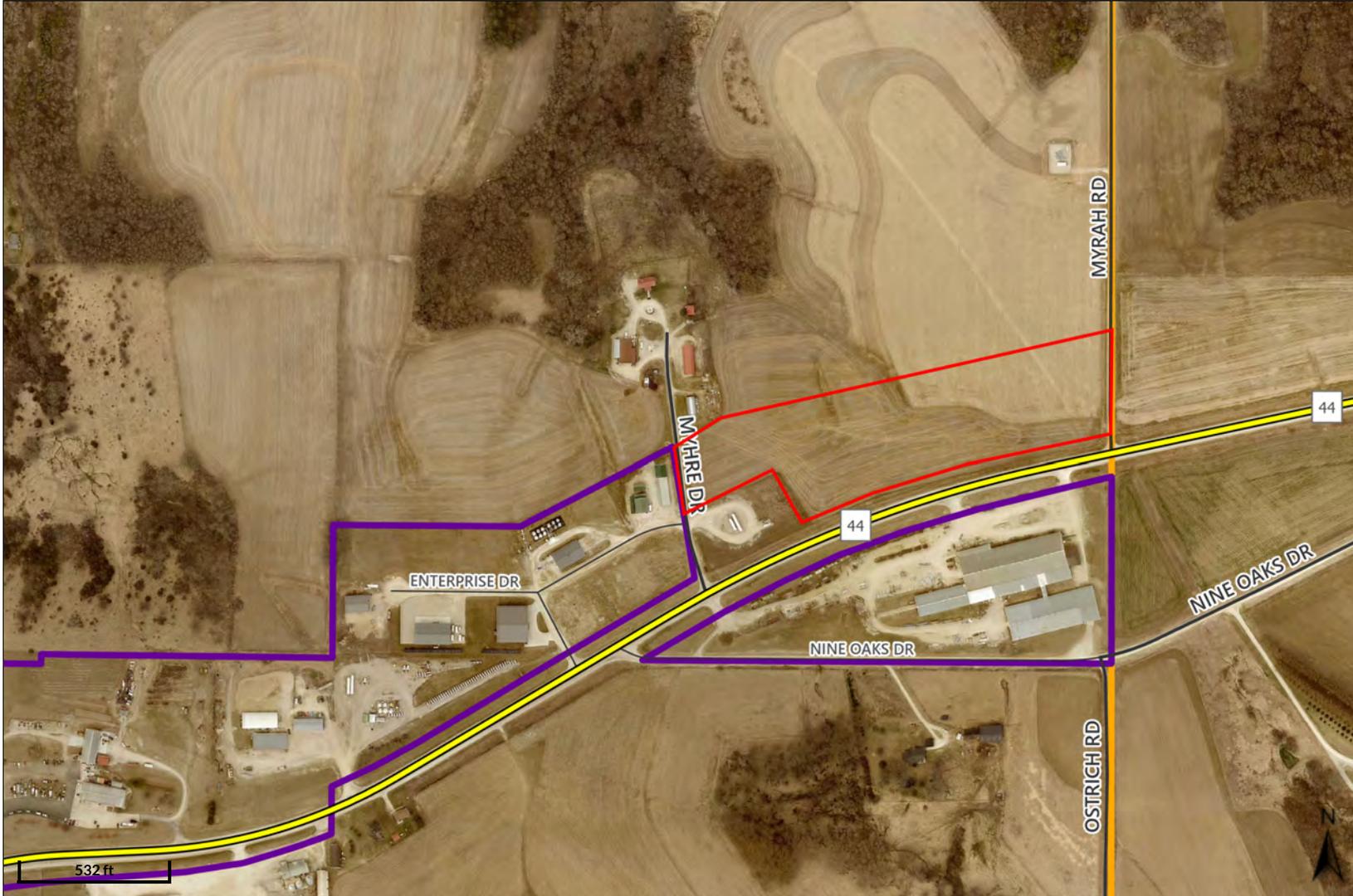
Legend

- Corporate Limits
- Roads
- FEDERAL HIGHWAY
- STATE HIGHWAY
- COUNTY HIGHWAY
- TOWNSHIP ROAD
- MUNICIPAL ROAD
- Political Townships

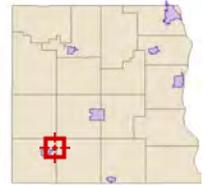
Spring Grove Industrial Park Expansion

Spring Grove Industrial Park Expansion Concept Area & Corporate Boundaries

Created by: Spring Grove Economic Development Authority - RC



Overview



Legend

- Corporate Limits
- Roads**
- FEDERAL HIGHWAY
- STATE HIGHWAY
- COUNTY HIGHWAY
- TOWNSHIP ROAD
- MUNICIPAL ROAD
- Political Townships

Spring Grove Industrial Park Expansion

Sanitary Sewer - Existing and Expansion

Created by: Spring Grove Economic Development Authority - RC



Overview



Legend

Roads

-  FEDERAL HIGHWAY
-  STATE HIGHWAY
-  COUNTY HIGHWAY
-  TOWNSHIP ROAD
-  MUNICIPAL ROAD
-  Political Townships

Date created: 1/22/2024

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Developed by  **Schneider**
GEOSPATIAL

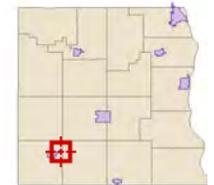
Spring Grove Industrial Park Expansion

Water Main - Existing and Expansion

Created by: Spring Grove Economic Development Authority - RC



Overview



Legend

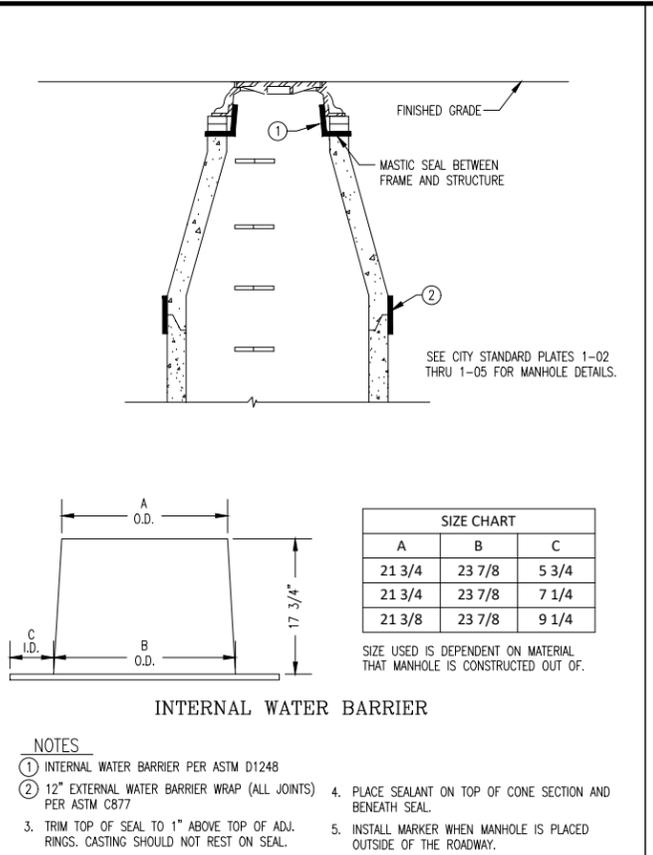
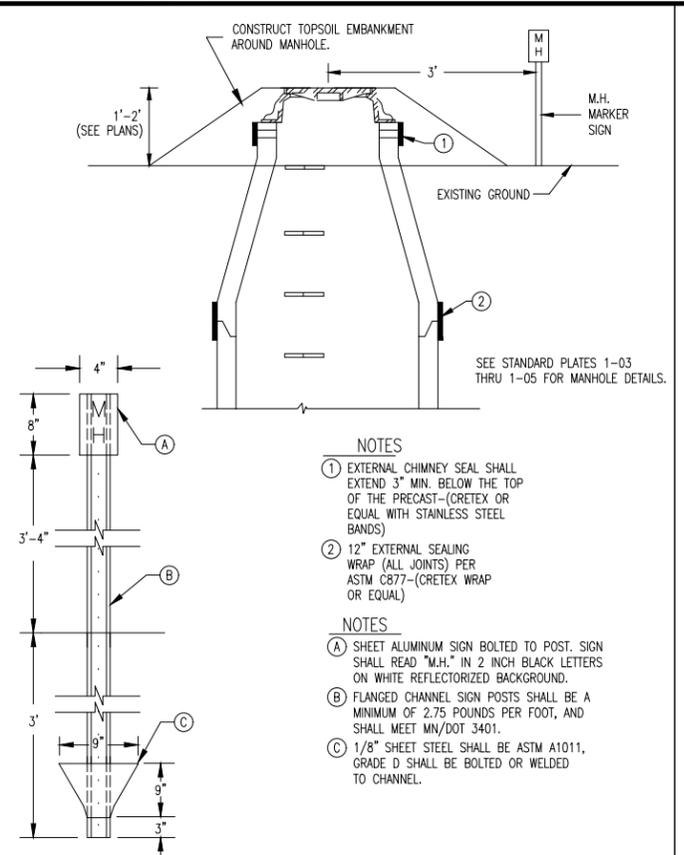
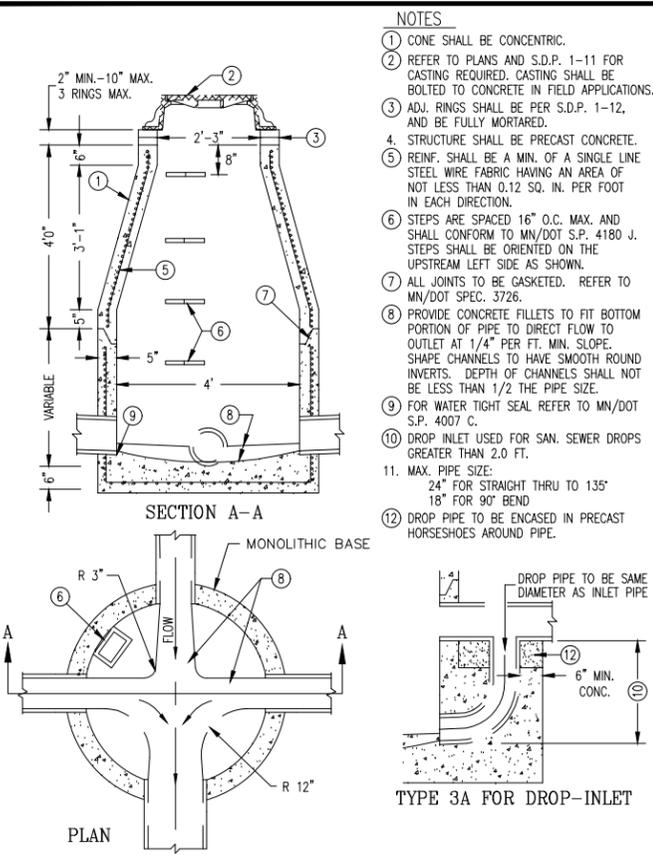
Roads

-  FEDERAL HIGHWAY
-  STATE HIGHWAY
-  COUNTY HIGHWAY
-  TOWNSHIP ROAD
-  MUNICIPAL ROAD
-  Political Townships

Date created: 1/22/2024

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Developed by 



CASTINGS - STRUCTURE TYPE 1				
TYPE	DESCRIPTION	CASTING NUMBER	LID/GRATE	REMARKS
A	2' CURB INLET FRAME GRATE & BOX	R-3010	TYPE R-DIAGONAL	FOR M.H. TYPE STRUCTURE (36" DIA. BASE)
B	3' CURB INLET FRAME GRATE & BOX	R-3067-7002	TYPE R-DIAGONAL	FISH LOGO-3779
C	3' DRIVEWAY CURB INLET FRAME	R-3290-A	TYPE C	USE WHERE DRIVEWAY PRECLUDES USE OF TYPE B IN B. CURB
D	3' DRIVEOVER CURB INLET FRAME & GRATE	R-3510	TYPE C	USE WHERE DRIVEWAY PRECLUDES USE OF TYPE B IN D.O. CURB
V	3' CURB INLET FRAME GRATE & BOX	R-3067-7002	TYPE V	USE WHEN STREET GRADE EXCEEDS 2% FISH LOGO-3779

CASTINGS - OTHER STRUCTURES				
TYPE	DESCRIPTION	CASTING NUMBER	LID/GRATE	REMARKS
1	9" FRAME AND COVER NON-ROCKING	R-1733-B	TYPE B LID	W/2 CONCEALED PICK HOLES
2	9" FRAME & COVER	R-1916-C	SELF-SEALING BOLTED LID	TO BE USED IN FLOOD PRONE OR OFF STREET AREAS & IN CONCRETE PAVING
3	6 1/2" FRAME & COVER NON-ROCKING	R-1700-A	TYPE B LID	NOT FOR USE ON NEW CONSTRUCTION, W/2 CONCEALED PICK HOLES
3A	7" FRAME AND COVER NON-ROCKING	R-1740-B	TYPE B LID	TO BE USED FOR P.R.V. MANHOLES
4	9" FRAME AND GRATE NON-ROCKING	R-2533	TYPE A GRATE	PAVEMENT DRAIN
5	9" BEEHIVE FRAME	R-2560-D3	7" GRATE BEEHIVE	USE ONLY WHEN TYPES 6 OR 7 CANNOT BE USED
6	DITCH GRATE-STOOL TYPE	R-4341-A	STOOL GRATE	HEAVY DUTY
7	DITCH GRATE-STOOL TYPE	R-4342	STOOL GRATE	LIGHT DUTY
8	POND SKIMMER GRATE	*	1/2" STEEL PLATE	HOT DIPPED GALVANIZED

ALL CASTING NUMBERS SHOWN ARE NEENAH FOUNDRY CATALOG NUMBERS. APPROVED EQUAL MAY BE SUBSTITUTED.

* HAALA INDUSTRIES CASTING, OR AN APPROVED EQUAL MAY BE SUBSTITUTED.

STRUCTURE TYPES 3 AND 3A (SANITARY SEWER)

REVISOR: 2/01/08
SHEET: 1 OF 1
PLATE NO. 1-03

MANHOLE WATERPROOFING (NON-PAVED AREAS)

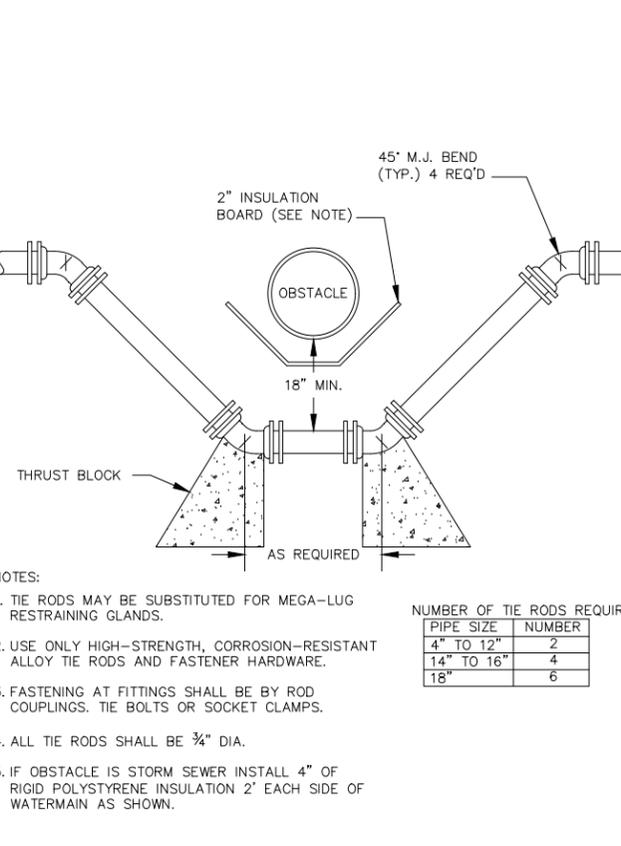
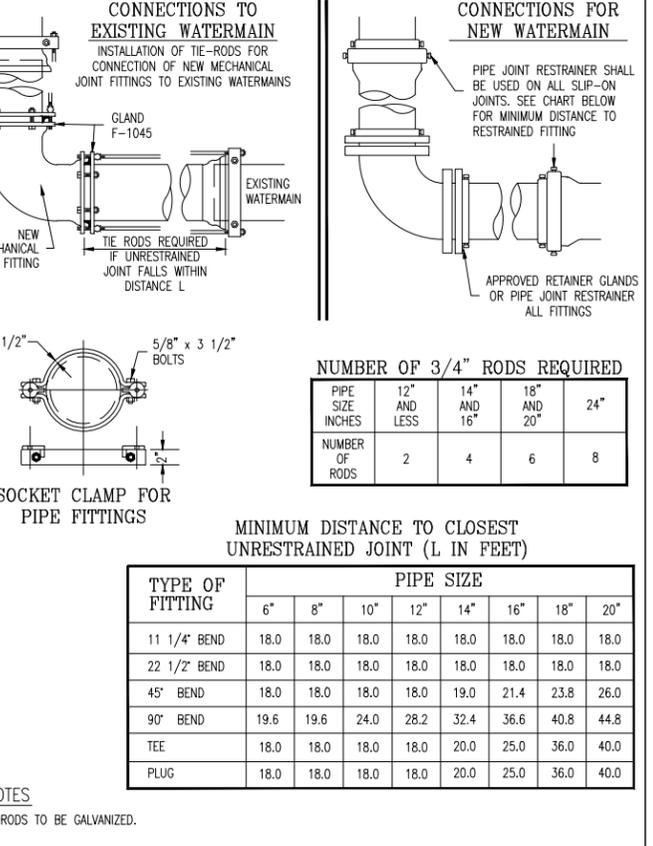
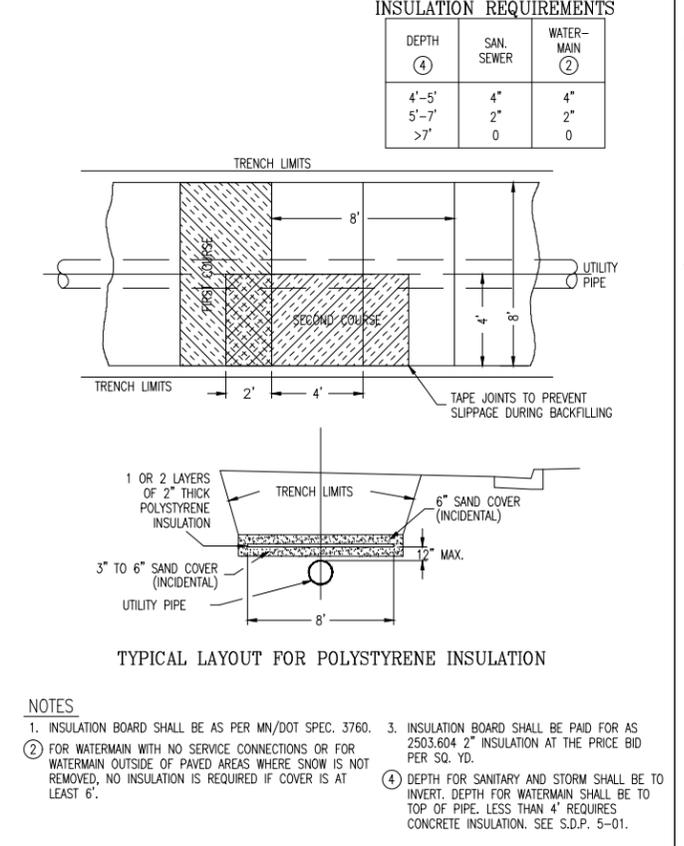
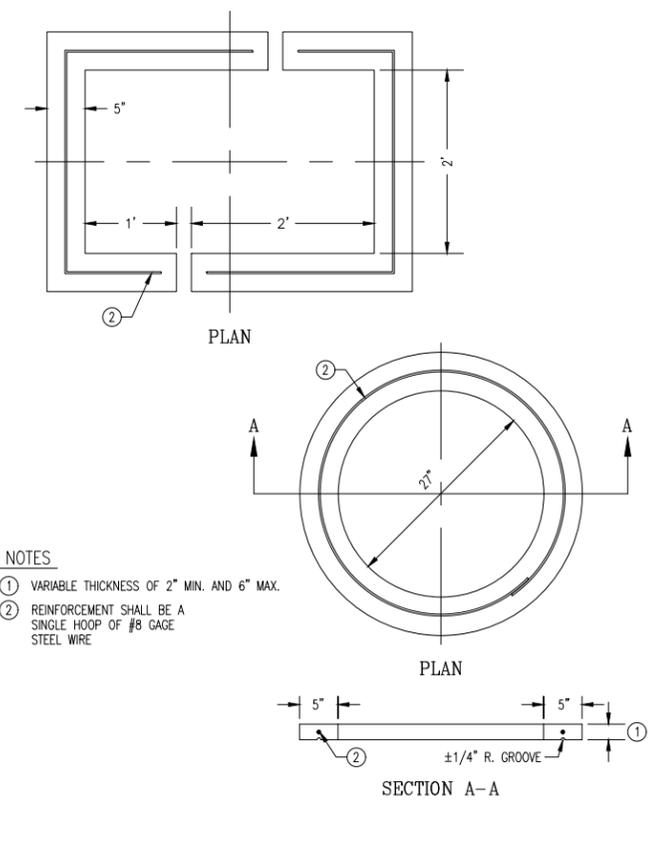
REVISOR: 4/26/12
SHEET: 2 OF 2
PLATE NO. 1-07

MANHOLE WATERPROOFING (PAVED AREAS)

REVISOR: 4/26/12
SHEET: 1 OF 2
PLATE NO. 1-07

CASTING SCHEDULE

REVISOR: 2/01/08
SHEET: 1 OF 1
PLATE NO. 1-11



CONCRETE STRUCTURE ADJUSTING RINGS

REVISOR: 2/01/08
SHEET: 1 OF 3
PLATE NO. 1-12

POLYSTYRENE INSULATION

REVISOR: 2/01/08
SHEET: 1 OF 1
PLATE NO. 5-02

RESTRAINED JOINT DETAIL

REVISOR: 2/01/08
SHEET: 1 OF 1
PLATE NO. 6-05

WATERMAIN LOWERING

REVISOR: 2/01/08
SHEET: 1 OF 1
PLATE NO. 6-18

whks
engineers + planners + land surveyors

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

Timothy A. Fruwka
Date 8/9/17 License No. 44930

REVISIONS

NO.	DATE	DESCRIPTION

DETAILS

COMMERCIAL PARK LIFT STATION
SPRING GROVE, MN
2017

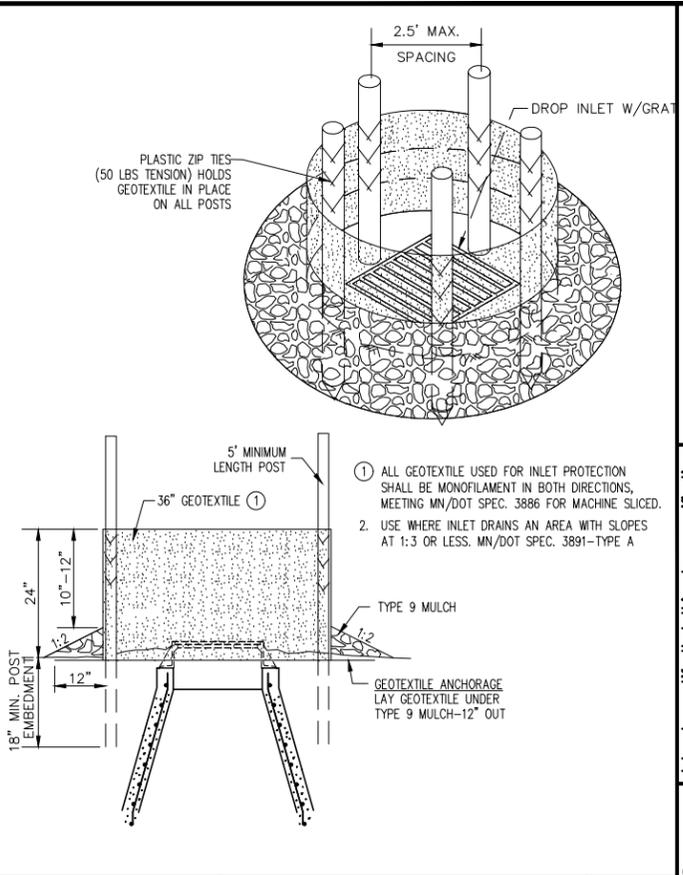
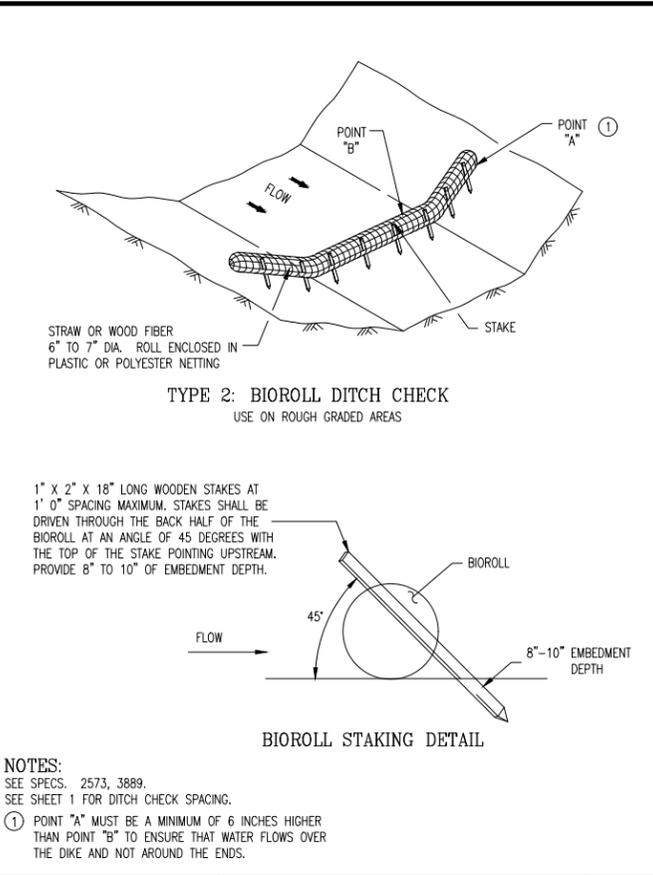
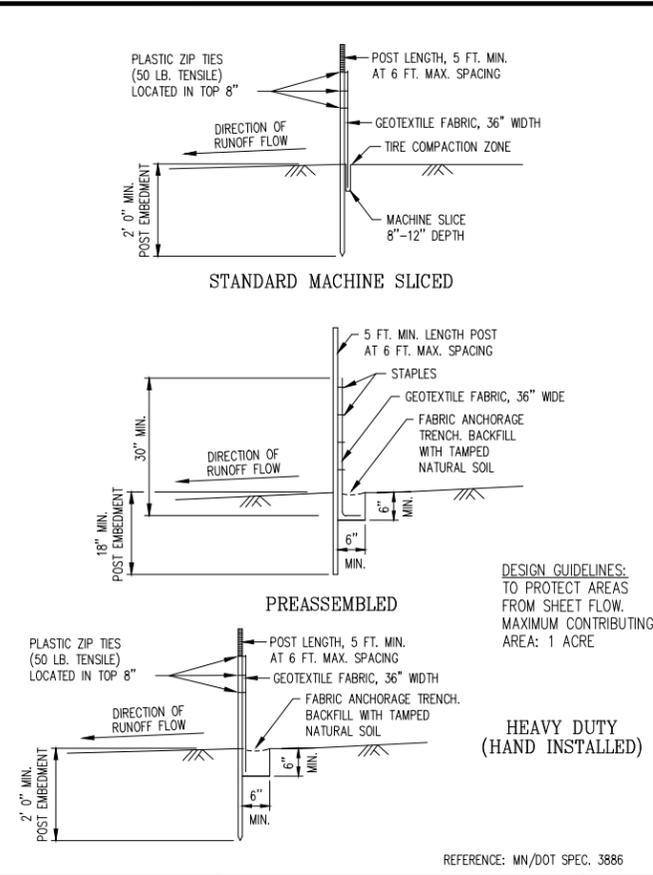
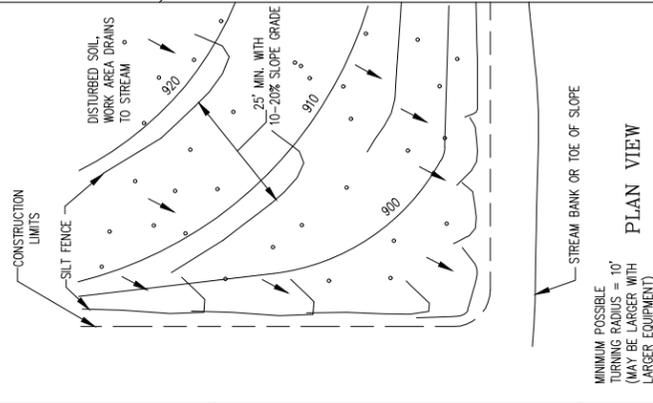
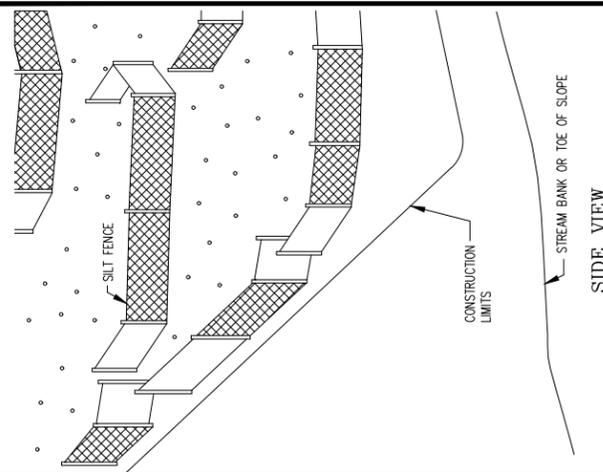
SCALE: AS SHOWN

WHKS PROJECT NO. 8440

DRAWN BY: SGH

CHECKED BY: TAH

SHEET 02 OF 12



whks

SILT FENCE DETAILS—J-HOOK INSTALLATION

REVISOR: 2/01/08
SHEET: 2 OF 2
PLATE NO. 7-01

whks

SILT FENCE DETAILS

REVISOR: 2/01/08
SHEET: 1 OF 2
PLATE NO. 7-01

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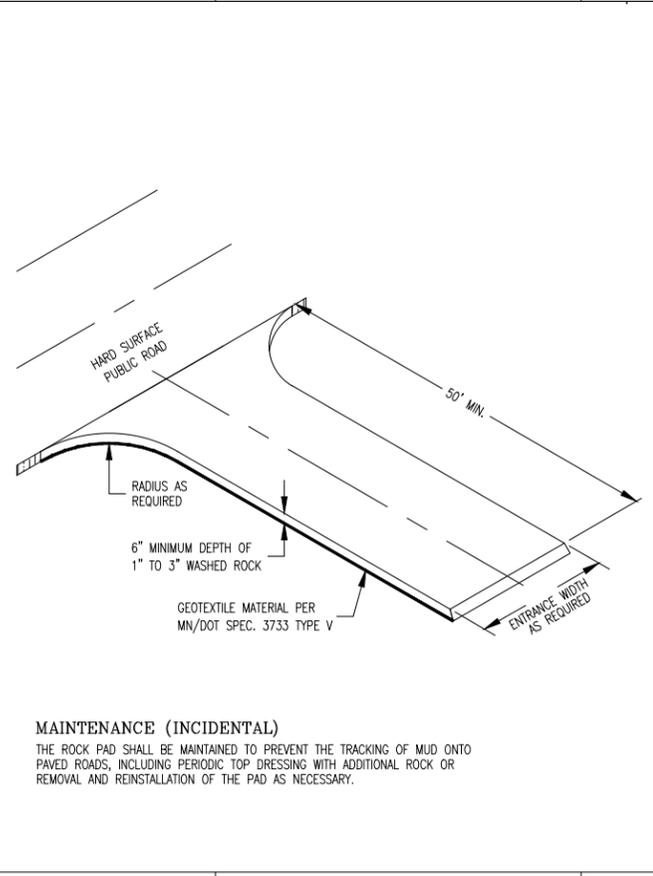
TEMP. SEDIMENT CONTROL TYPE 2 DITCH CHECKS

REVISOR: 2/01/08
SHEET: 3 OF 6
PLATE NO. 7-03

whks

INLET PROTECTION—SILT FENCE RING

REVISOR: 2/01/08
SHEET: 3 OF 5
PLATE NO. 7-05



whks

TEMPORARY ROCK CONSTRUCTION ENTRANCE

REVISOR: 2/01/08
SHEET: 1 OF 1
PLATE NO. 7-06

whks
engineers + planners + land surveyors

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

Timothy A. Hruaka
Date: 8/9/17 License No. 44930

NO.	DATE	DESCRIPTION

REVISIONS

DETAILS

COMMERCIAL PARK LIFT STATION
SPRING GROVE, MN
2017

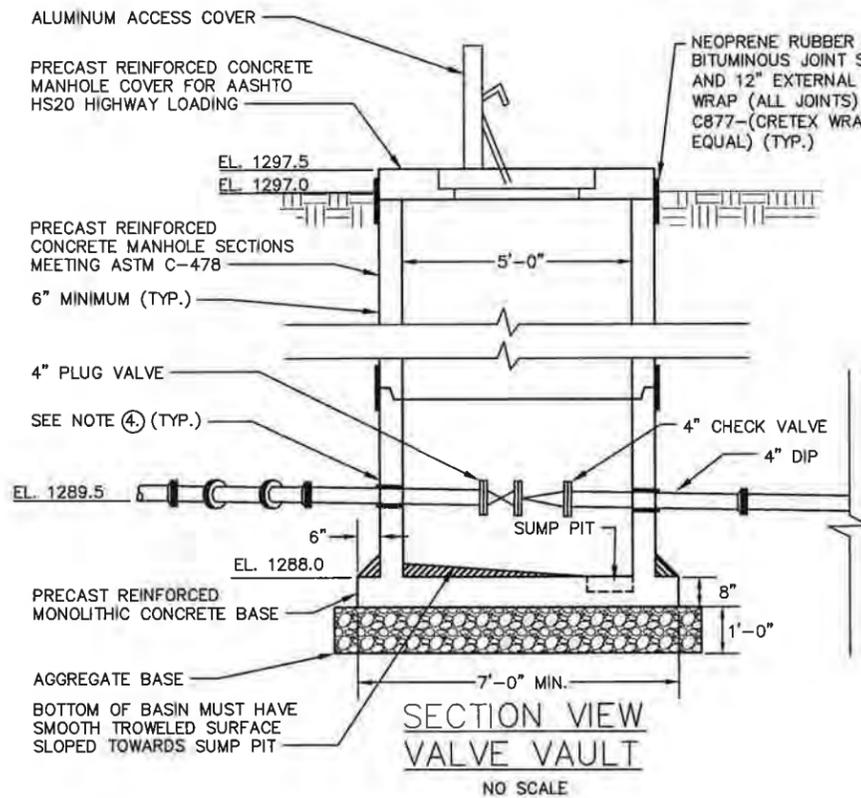
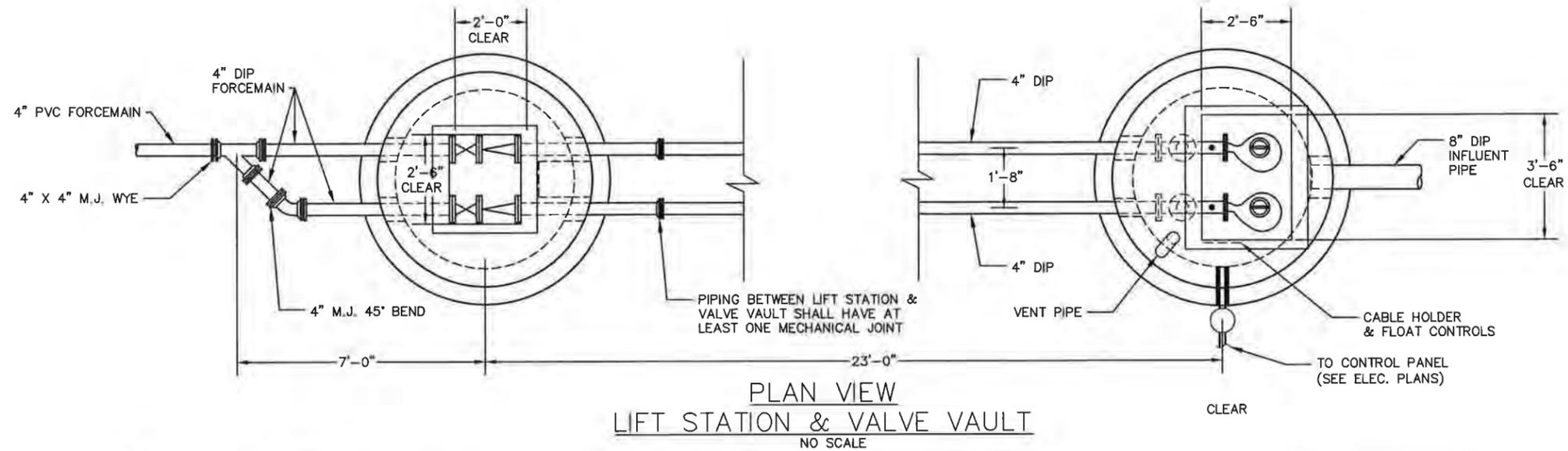
SCALE: AS SHOWN

WHKS PROJECT NO. 8440

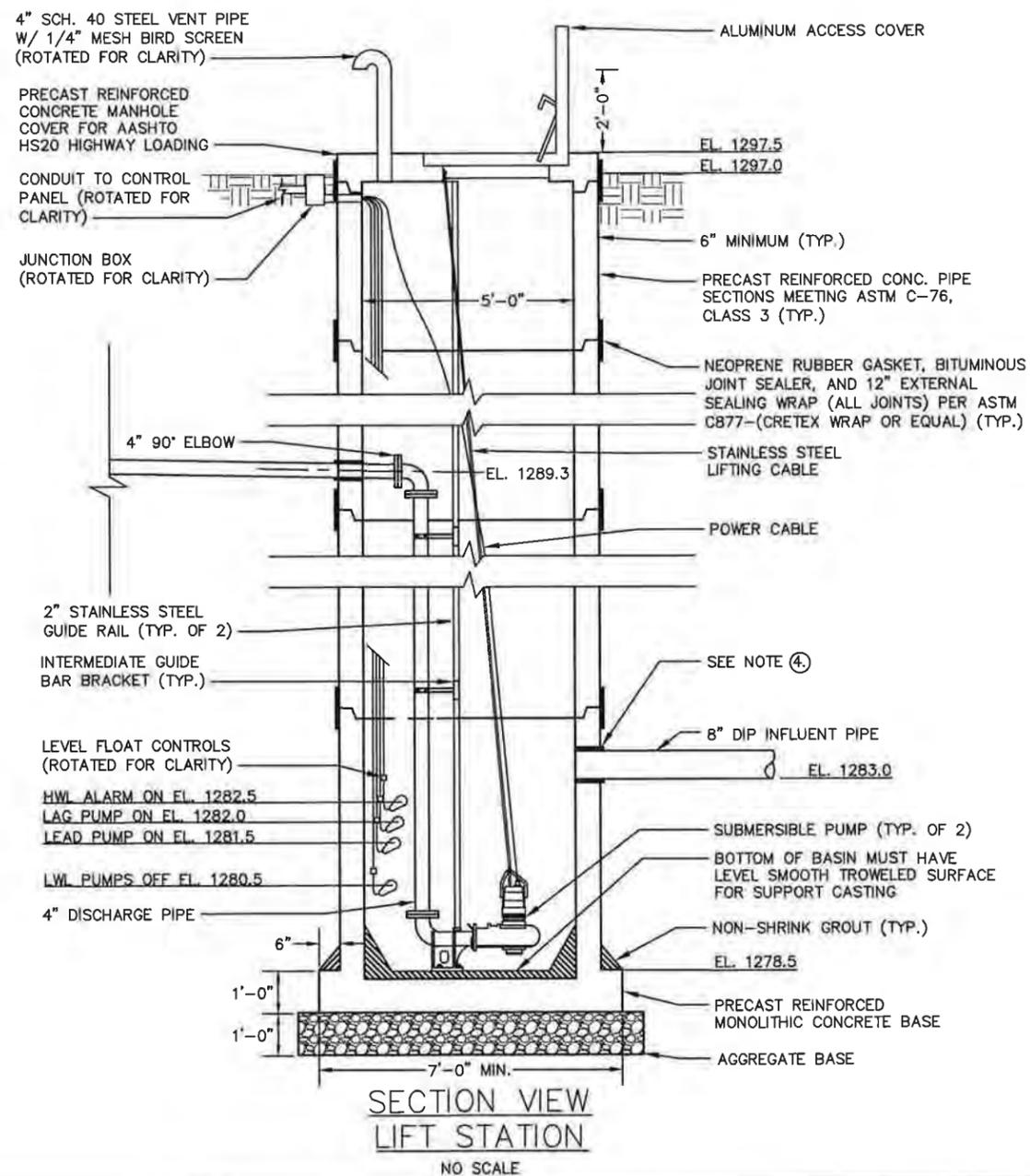
DRAWN BY: SGH

CHECKED BY: TAH

SHEET 03 OF 12



- NOTES:
1. AGGREGATE BASE FOR STRUCTURES SHALL BE PLACED ON UNDISTURBED SOIL.
 2. ALL STRUCTURES SHALL BE BACKFILLED WITH GRANULAR MATERIAL TO WITHIN 2 FT. OF FINISH GRADE.
 3. PROVIDE MINIMUM 3" CLEARANCE BETWEEN PUMP AND HATCH OPENING ON ALL SIDES. CONTRACTOR TO VERIFY PUMP DIMENSIONS FOR MANUFACTURER SELECTED.
 4. PROPOSED FLEXIBLE WATERTIGHT PIPE BOOT SEAL CONNECTION. SEAL NON-SHRINK GROUT AROUND INTERIOR PIPE OPENING FLUSH WITH INTERIOR WALL.

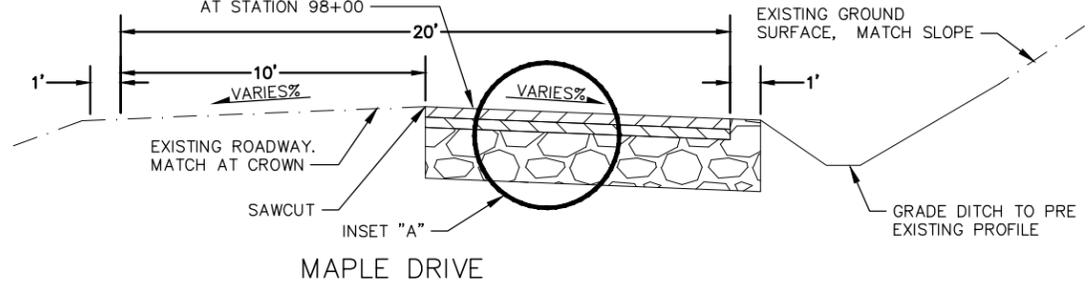
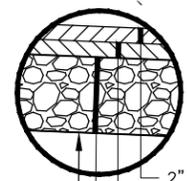
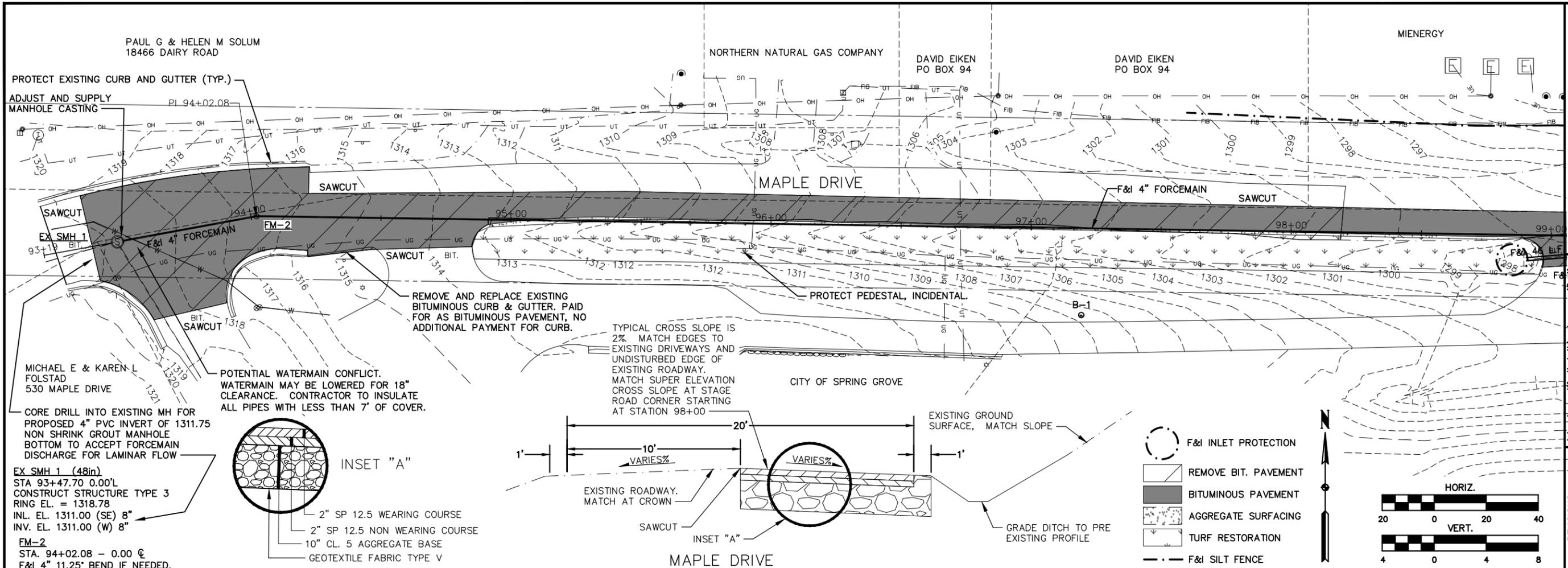


I hereby certify that this plan, specification or report was prepared by me or under my direct personal supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Eric A. Jourdain
Date: 8-9-17 License No. 46320

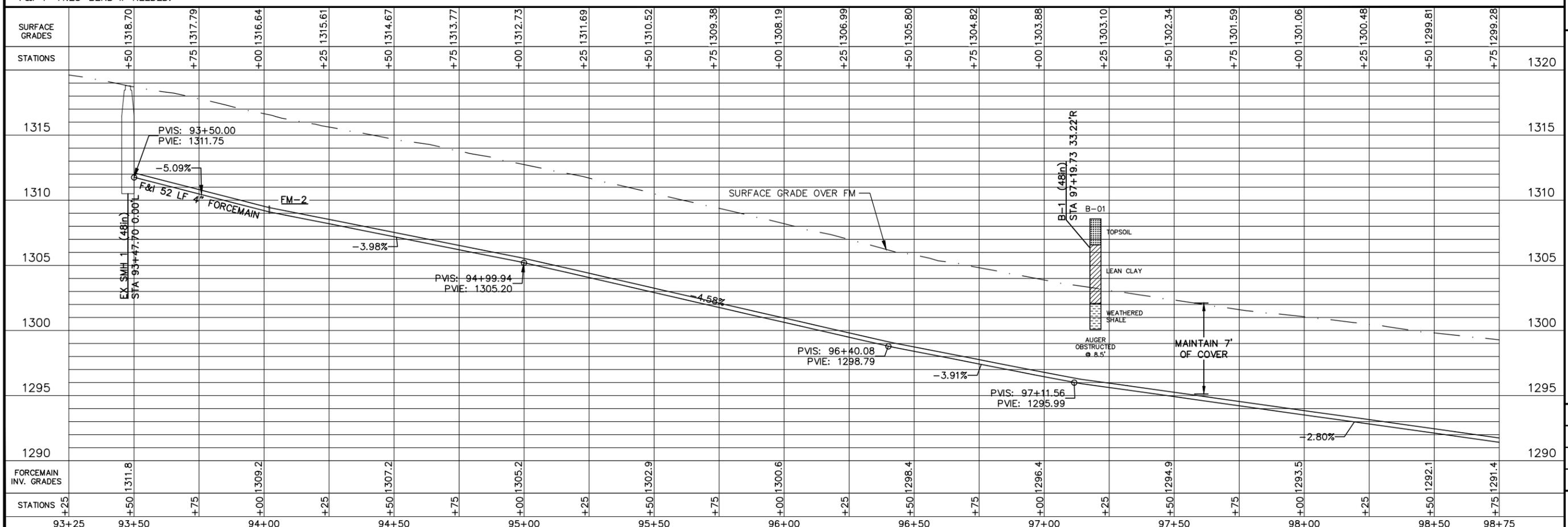
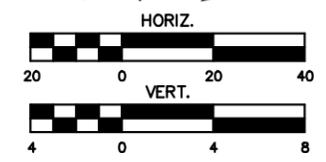
NO.	DATE	REVISIONS	DESCRIPTION

LIFT STATION DETAILS
COMMERCIAL PARK LIFT STATION
SPRING GROVE, MN
2017

SCALE: AS SHOWN
WHKS PROJECT NO. 8440
DRAWN BY: SGH
CHECKED BY: EAT
SHEET 04 OF 12



- F&I INLET PROTECTION
- REMOVE BIT. PAVEMENT
- BITUMINOUS PAVEMENT
- AGGREGATE SURFACING
- TURF RESTORATION
- F&I SILT FENCE



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Timothy A. Hruska
Date 8/9/17 License No. 44930

NO.	DATE	DESCRIPTION

PLAN AND PROFILE

COMMERCIAL PARK LIFT STATION
SPRING GROVE, MN
2017

SCALE: 1" = 20'

WHKS PROJECT NO. 8440

DRAWN BY: SGH

CHECKED BY: TAH

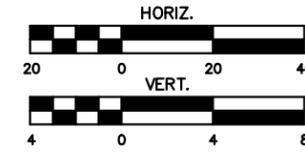
SHEET 05 OF 12

FM-3
 STA. 99+71.99 - 1.00 C
 F&I 4" 45' BEND
 F&I 4"X4" WYE 2.8' SW OF
 BEND AS SHOWN ON
 LIFT STATION DETAIL PAGE.

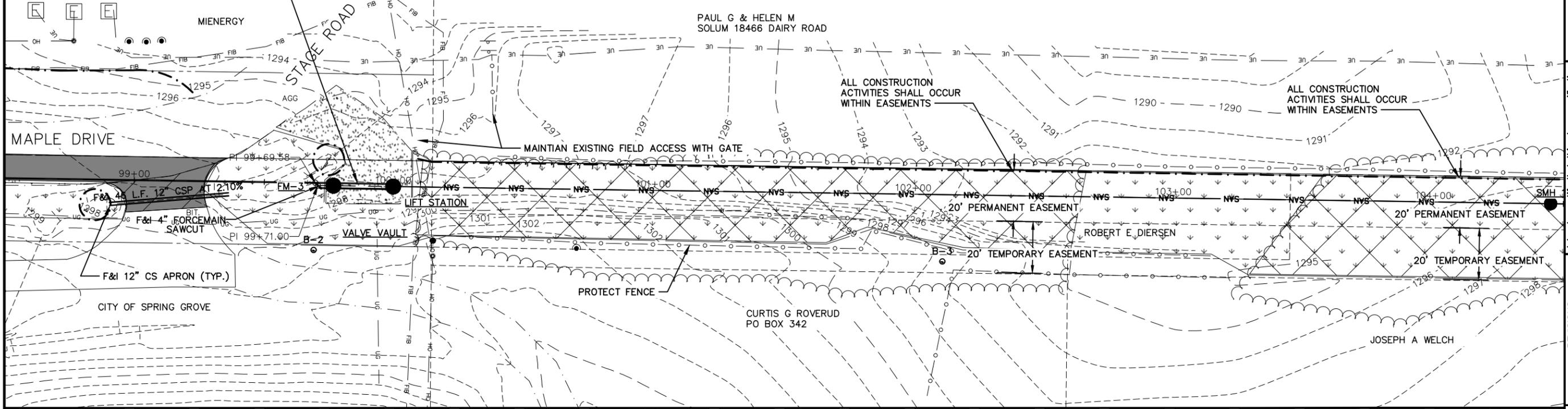
VALVE VAULT (60in)
 STA 99+77.00 0.00'
 CONSTRUCT STRUCTURE TYPE 3
 RING EL. = 1297.50

LIFT STATION (60in)
 STA 100+00.00 0.00'
 CONSTRUCT STRUCTURE TYPE 3
 RING EL. = 1297.50
 INL. EL. 1283.00 (E) 8"

SEE LIFT STATION
 DETAILS SHEET FOR
 DETAILED INFORMATION



- REMOVE BIT. PAVEMENT
- BITUMINOUS PAVEMENT
- AGGREGATE SURFACING (10'')
- TURF RESTORATION
- CLEAR AND GRUB
- F&I SILT FENCE
- F&I INLET PROTECTION



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 Timothy A. Hruka
 Date 8/9/17 License No. 44930

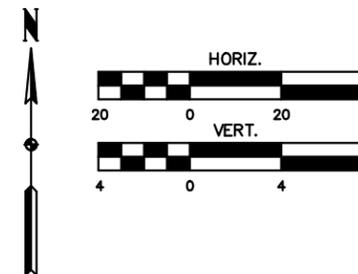
STATIONS	FORCEMAIN INV. GRADES	SAN. SEWER INV. GRADES	PLAN AND PROFILE
98+75	1290.7		
99+00			
99+25			
99+50	1289.7		
99+75			
100+00			
100+25			
100+50			
101+00			
101+25			
101+50			
102+00			
102+25			
102+50			
103+00			
103+25			
103+50			
104+00			
104+25			

NO.	DATE	DESCRIPTION

SCALE: 1" = 20'
 WHKS PROJECT NO. 8440
 DRAWN BY: SGH
 CHECKED BY: TAH
 SHEET 06 OF 12

SMH 1 (48in)
 STA 104+45.09 0.00'R
 CONSTRUCT STRUCTURE TYPE 3
 RING EL. = 1293.30
 INL. EL. 1284.88 (E) 8"
 INV. EL. 1284.78 (W) 8"

SMH 2 (48in)
 STA 108+95.09 0.00'
 CONSTRUCT STRUCTURE TYPE 3
 RING EL. = 1297.27
 INL. EL. 1286.78 (E) 8"
 INV. EL. 1286.68 (W) 8"



- TURF RESTORATION
- CLEAR AND GRUB
- EROSION CONTROL BLANKET

PLACE GEOTEXTILE FABRIC AND 12"
 CLASS 2 RIP RAP IN THIS 20'X20' AREA.
 GRADE EXISTING GROUND THROUGH THIS
 AREA TO PREVENT FUTURE EROSION

POTENTIAL FIELD TILE
 OUTLET CROSSING,
 REPAIR IF DAMAGED.

PAUL G & HELEN M SOLUM
 18466 DAIRY ROAD

ALL CONSTRUCTION
 ACTIVITIES SHALL OCCUR
 WITHIN EASEMENTS

ALL CONSTRUCTION
 ACTIVITIES SHALL OCCUR
 WITHIN EASEMENTS

CONTRACTOR TO REMOVE AND REINSTALL FENCE AS
 NEEDED TO PRE-EXISTING CONDITION OR BETTER (TYP.)

20' PERMANENT EASEMENT

20' TEMPORARY EASEMENT

20' TEMPORARY EASEMENT

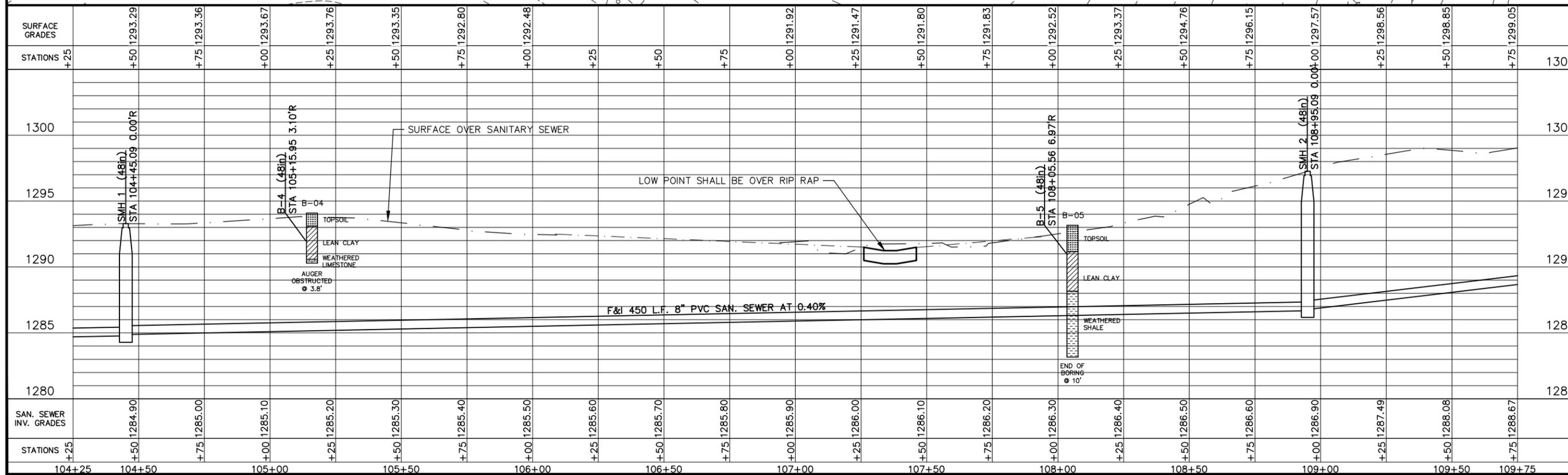
ROBERT E DIERSEN

COUNTY OF
 HOUSTON

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 or report was prepared by me or under
 my direct personal supervision and that I
 am a duly Licensed Professional Engineer
 under the laws of the State of Minnesota.

Timothy A. Hruaka
 Date 8/9/17 License No. 44930

NO.	DATE	DESCRIPTION



PLAN AND PROFILE	
COMMERCIAL PARK LIFT STATION SPRING GROVE, MN 2017	
SCALE:	1" = 20'
WHKS PROJECT NO.	8440
DRAWN BY:	SGH
CHECKED BY:	TAH
SHEET	07 OF 12

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 Timothy A. Hruka
 Date 8/9/17 License No. 44930

NO.	DATE	DESCRIPTION

PLAN AND PROFILE
 COMMERCIAL PARK LIFT STATION
 SPRING GROVE, MN
 2017

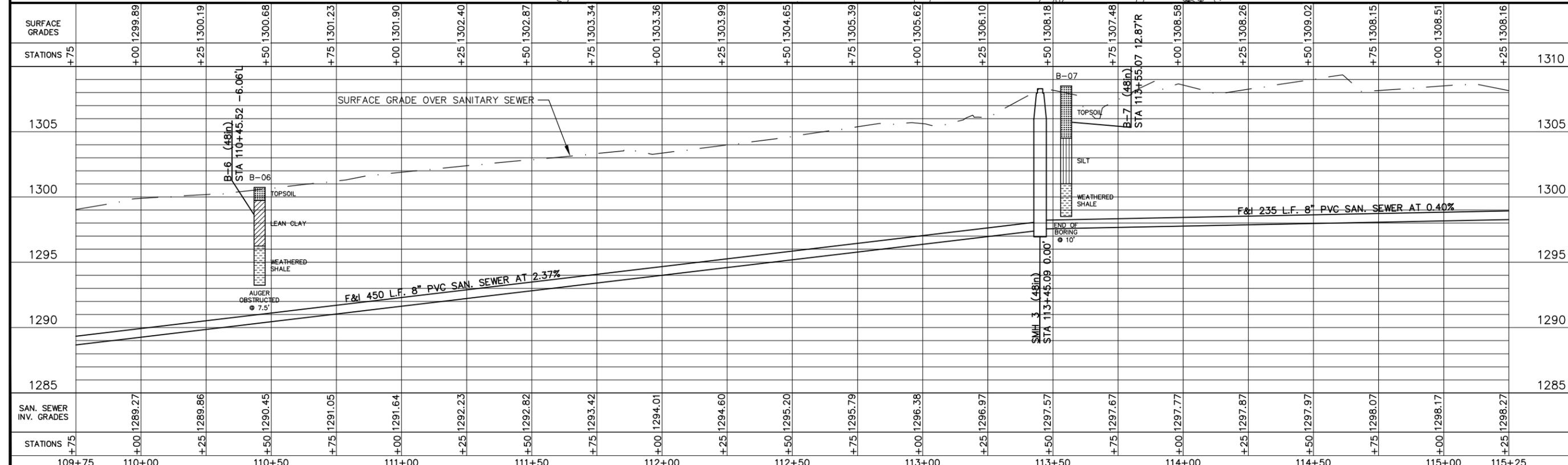
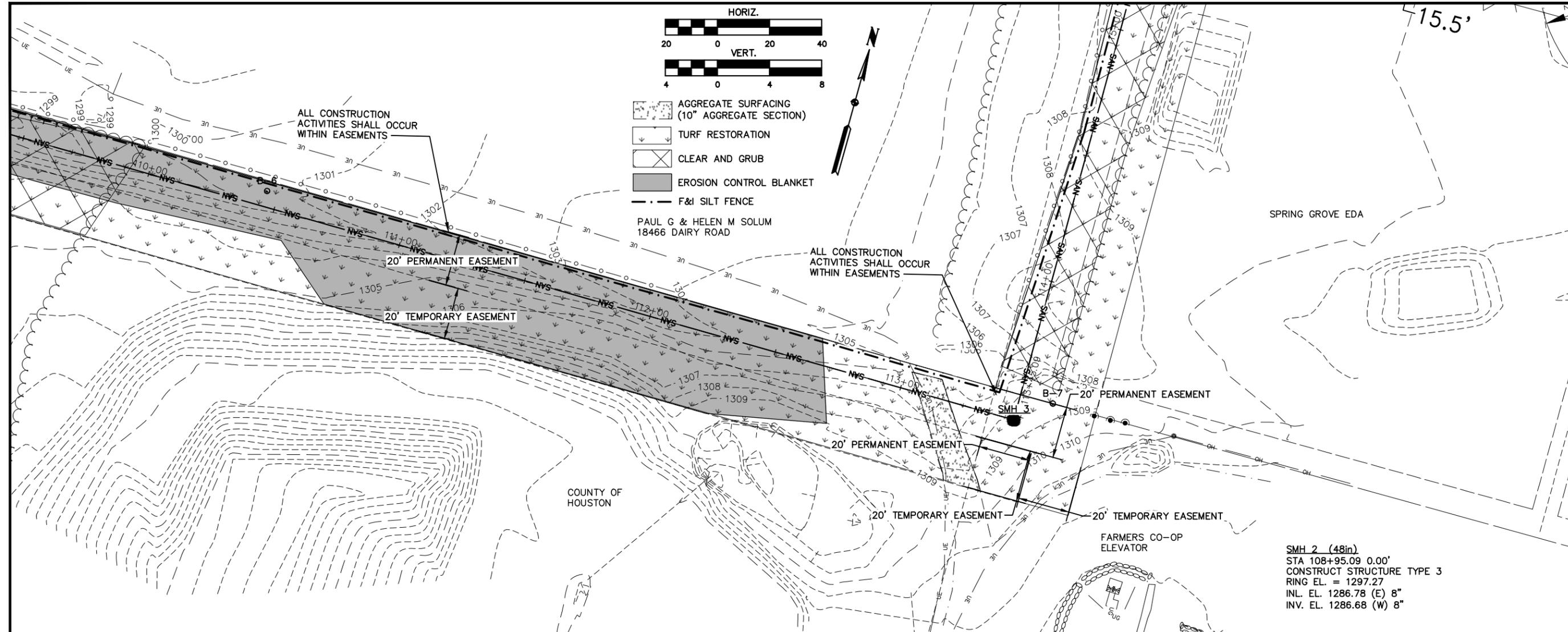
SCALE:
 1" = 20'

WHKS PROJECT NO.
 8440

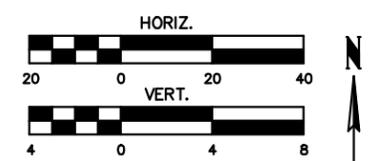
DRAWN BY:
 SGH

CHECKED BY:
 TAH

SHEET
 08 OF 12

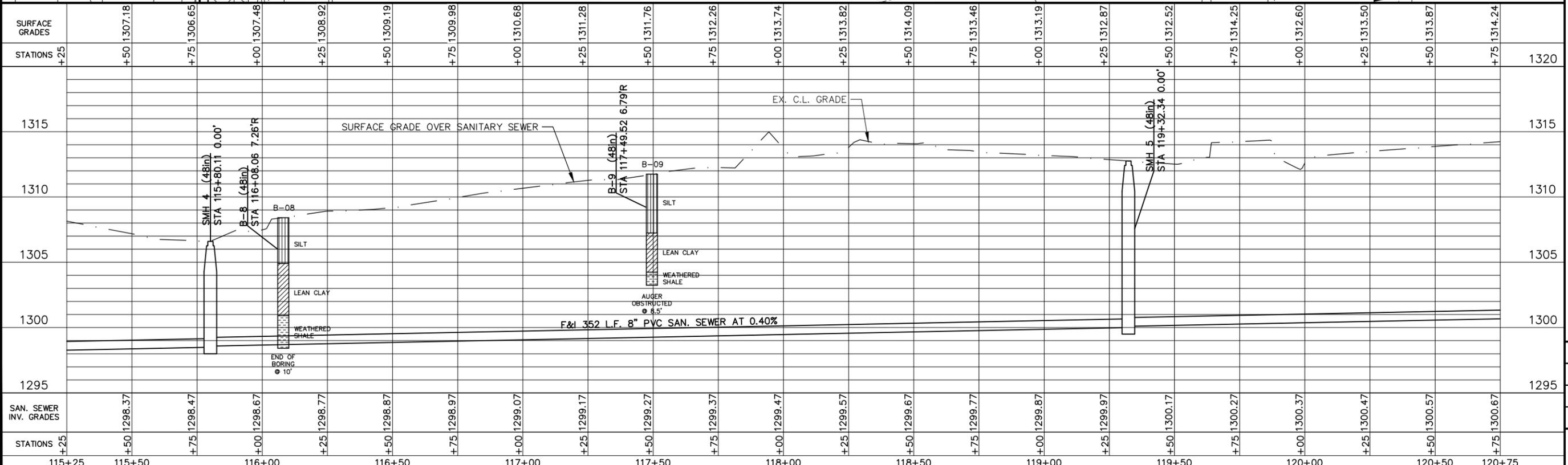
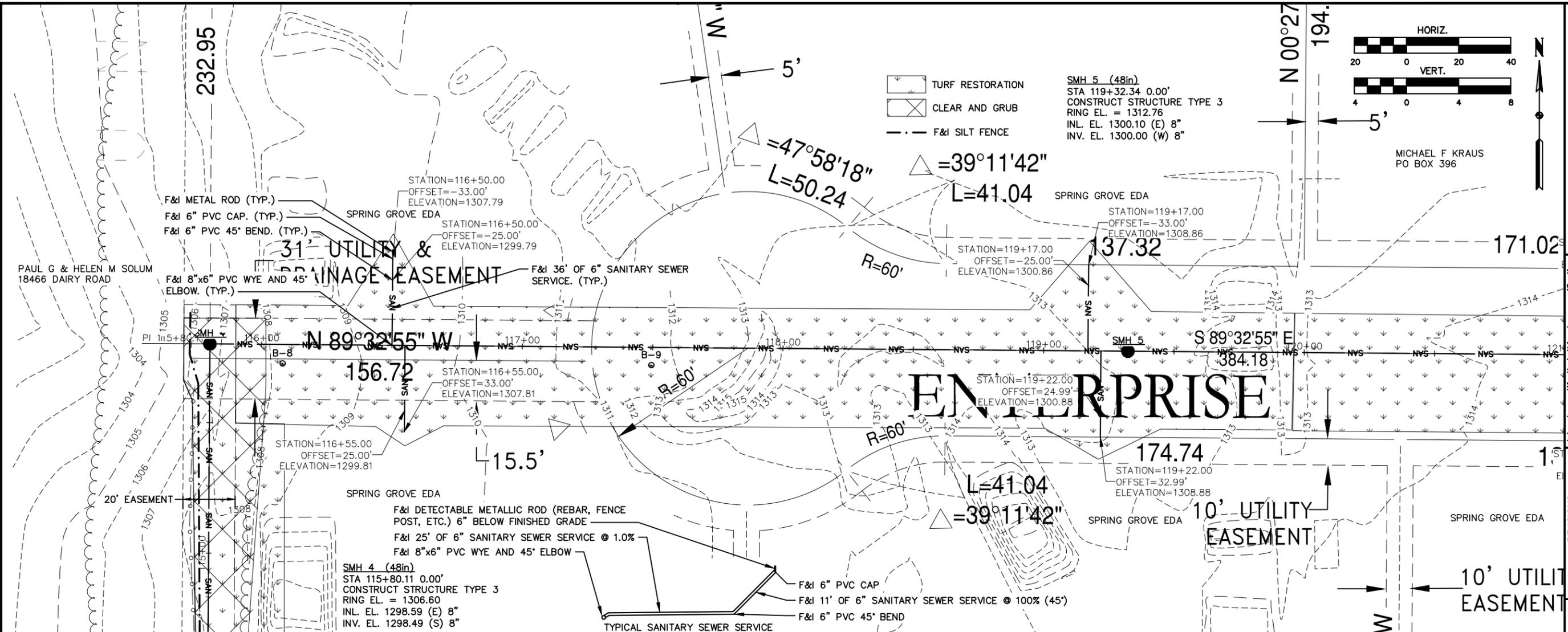


MICHAEL F KRAUS
PO BOX 396



- TURF RESTORATION
- CLEAR AND GRUB
- F&I SILT FENCE

SMH 5 (48in)
STA 119+32.34 0.00'
CONSTRUCT STRUCTURE TYPE 3
RING EL. = 1312.76
INL. EL. 1300.10 (E) 8"
INV. EL. 1300.00 (W) 8"



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Timothy A. Hruaka
Date 8/9/17 License No. 44930

NO.	DATE	DESCRIPTION

PLAN AND PROFILE
COMMERCIAL PARK LIFT STATION
SPRING GROVE, MN
2017

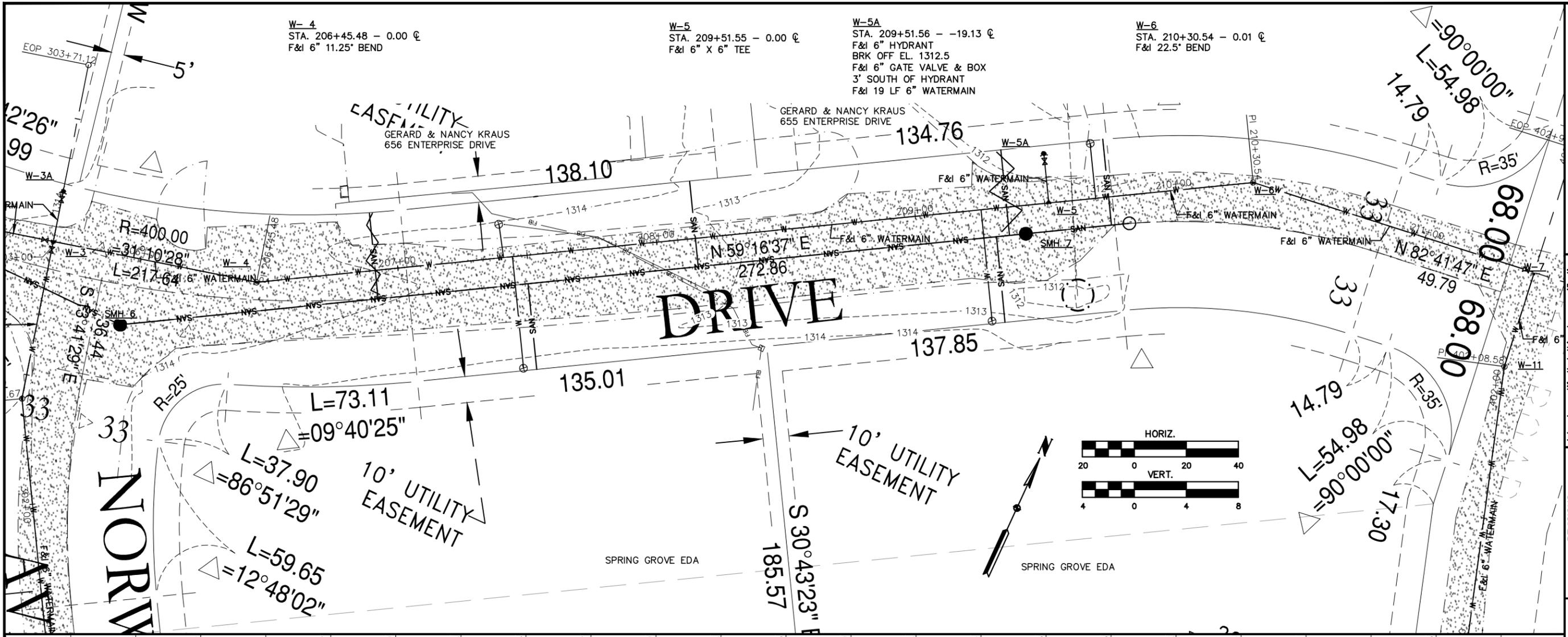
SCALE:
1" = 20'

WHKS PROJECT NO.
8440

DRAWN BY:
SGH

CHECKED BY:
TAH

SHEET
09 OF 12



W-4
STA. 206+45.48 - 0.00 @
F&I 6" 11.25' BEND

W-5
STA. 209+51.55 - 0.00 @
F&I 6" X 6" TEE

W-5A
STA. 209+51.56 - -19.13 @
F&I 6" HYDRANT
BRK OFF EL. 1312.5
F&I 6" GATE VALVE & BOX
3' SOUTH OF HYDRANT
F&I 19 LF 6" WATERMAIN

W-6
STA. 210+30.54 - 0.01 @
F&I 22.5' BEND

whks
engineers + planners + land surveyors

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Timothy A. Hruaka
License No. 44930
Date _____

NO.	DATE	DESCRIPTION

STATIONS	FINISHED C/L GRADES	STATIONS	WATER INV. GRADES
+00	1314.46	+00	1306.20
+25	1314.42	+25	1306.20
+50	1314.36	+50	1306.1
+75	1314.16	+75	1306.03
+100	1313.97	+100	1305.9
+125	1313.79	+125	1305.81
+150	1313.62	+150	1305.7
+175	1313.44	+175	1305.58
+200	1313.27	+200	1305.5
+225	1313.09	+225	1305.36
+250	1312.92	+250	1305.2
+275	1312.75	+275	1305.14
+300	1312.59	+300	1305.0
+325	1312.52	+325	1304.92
+350	1312.46	+350	1304.8
+375	1312.48	+375	1304.86
+400	1312.55	+400	1304.9
+425	1312.62	+425	1304.98
+450	1312.86	+450	1305.2
+475	1313.14	+475	1305.47
+500	1313.41	+500	1305.7
+525	1313.68	+525	1306.00
+550	1314.00	+550	1306.29

PLAN AND PROFILE

COMMERCIAL PARK LIFT STATION
SPRING GROVE, MN
2017

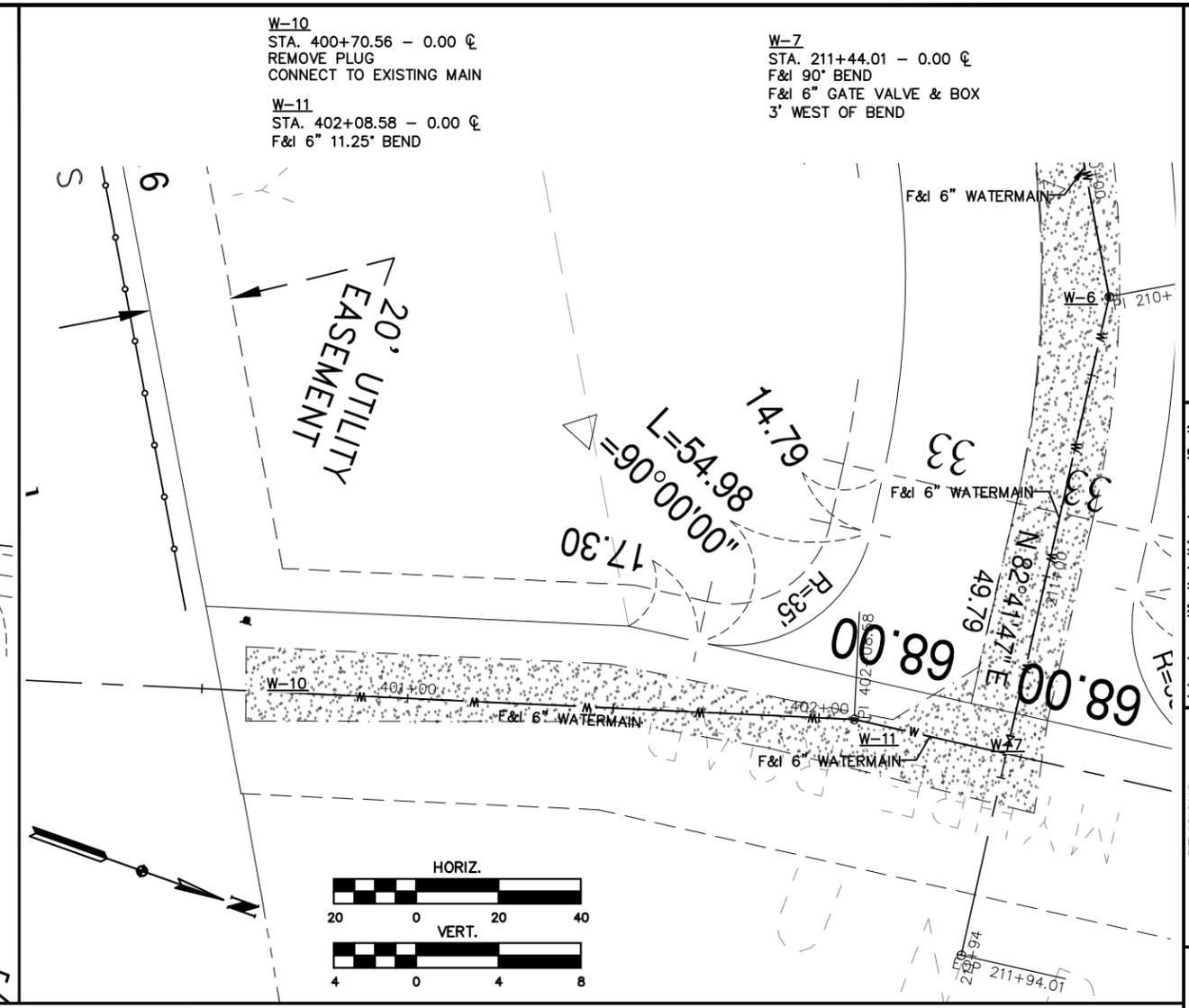
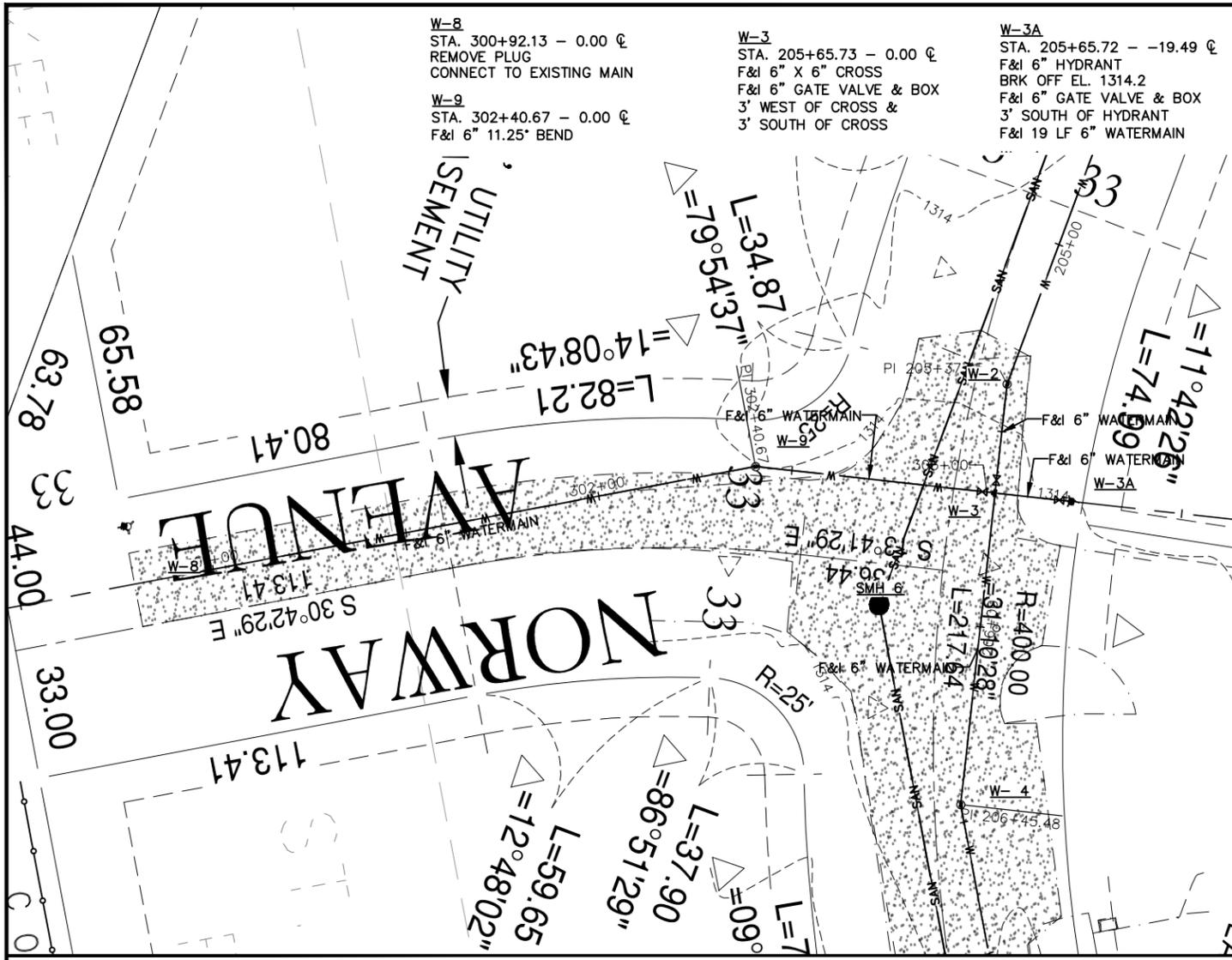
SCALE:
1" = 20'

WHKS PROJECT NO.
8440

DRAWN BY:
SGH

CHECKED BY:
TAH

SHEET
W-20F W-3



STATIONS	WATER INV. GRADES	FINISHED C/L GRADE
+75		1315.66
+00	1307.8	1315.46
+25	1307.54	1315.27
+50	1307.3	1315.08
+75	1307.05	1314.88
+00	1306.8	1314.64
+25	1306.56	1314.38
+50	1306.4	1313.73
+75	1306.36	1314.41
+00	1306.3	1314.53
+25		1312.02

STATIONS	WATER INV. GRADES	FINISHED C/L GRADE
+50		1314.79
+75	1306.69	1314.81
+00	1306.6	1314.77
+25	1306.50	1314.79
+50	1306.4	1314.79
+75	1306.32	1314.65
+00	1306.2	1314.24
+25	1306.20	1314.13
+50		1314.16
+75		1314.12



engineers + planners + land surveyors

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Timothy A. Hruaka License No. 44930 Date _____

NO.	DATE	DESCRIPTION

PLAN AND PROFILE

COMMERCIAL PARK LIFT STATION
SPRING GROVE, MN
2017

SCALE: 1" = 20'

WHKS PROJECT NO. 8440

DRAWN BY: SGH

CHECKED BY: TAH

SHEET W-10 OF W-3

PROJECT LOCATION AND GENERAL SITE INFORMATION

THE PROJECT INCLUDES REMOVING THE EXISTING STREET, UTILITY INSTALLATION, AND ROADWAY CONSTRUCTION.

TRAINING REQUIREMENTS

THE CONTRACTOR WILL ENSURE THAT THE TRAINING REQUIRED IN PART III.A.2 OF THE GENERAL STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY IS COMPLIED WITH.

THE INDIVIDUAL TRAINED AND THE TRAINING RECEIVED WILL BE RECORDED IN THE SWPPP BEFORE THE START OF CONSTRUCTION OR AS SOON AS PERSONNEL FOR THE PROJECT HAVE BEEN DETERMINED.

LONG TERM OPERATION AND MAINTENANCE

THE CITY OF SPRING GROVE MAINTENANCE DEPARTMENT WILL BE RESPONSIBLE FOR THE LONG TERM OPERATION AND MAINTENANCE OF THE PERMANENT STORMWATER MANAGEMENT.

PAUL MORKEN
STREET SUPERINTENDENT
118 1ST AVENUE NW
SPRING GROVE, MN 55974
(507) 498-5221

KARST REGION, PART III.A.7

THERE ARE NO KNOWN KARST FEATURES (SINKHOLES, BLIND VALLEYS, MAPPED CAVES, SPRINGS, OR KARST WINDOWS).

INSPECTIONS AND REPORTS PRACTICES

ROUTINE INSPECTION OF THE ENTIRE CONSTRUCTION SITE SHALL OCCUR AT LEAST ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS.

AT A MINIMUM, INSPECTIONS AND REPORTS MUST INCLUDE THE FOLLOWING:

- (1) DATE AND TIME OF INSPECTION.
- (2) NAME OF PERSON CONDUCTING INSPECTIONS
- (3) CONDITIONS OF SURFACE WATERS, DITCHES, CONVEYANCE SYSTEMS, AND VEHICLE EXITS.
- (4) FINDING OF INSPECTIONS, INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIONS.
- (5) CORRECTIVE ACTIONS TAKEN, INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES.
- (6) DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCHES IN 24 HOURS.
- (7) DOCUMENTATION OF CHANGES MADE TO THE SWPPP WITHIN 7 DAYS.

RECEIVING SURFACE WATERS, DISCHARGE TO IMPAIRED WATERS & SPECIAL WATERS

THE TABLE BELOW IDENTIFIES ALL SURFACE WATERS WITHIN 1-MILE OF THE DISTURBED SOIL PROJECT BOUNDARIES, WHICH WILL RECEIVE STORMWATER RUNOFF FROM THE CONSTRUCTION SITE, DURING OR AFTER CONSTRUCTION.

RECEIVING SURFACE WATERS

NAME OF WATER BODY	SPECIAL WATER (1)	IMPAIRED WATER (2)
UNNAMED TRIBUTARY TO BEAVER CREEK WEST	NO	NO

WETLAND AREAS

THIS PROJECT DOES NOT DISCHARGE STORMWATER WITH THE POTENTIAL FOR SIGNIFICANT ADVERSE IMPACTS TO A WETLAND.

DISTURBED SOIL AREA

TOTAL DISTURBED SOILS AREA FOR THIS PROJECT IS 2.84 ACRES.

IMPERVIOUS SOIL AREA

EXISTING AREA OF IMPERVIOUS SURFACE IS 0.20 ACRES.
POST CONSTRUCTION AREA OF IMPERVIOUS SURFACE IS 0.22 ACRES.
INCREASE OF IMPERVIOUS SURFACE IS 0.02 ACRES.

THE INCREASE OF IMPERVIOUS SURFACES IS LESS THAN 1.00 ACRE.

SOIL TYPES

THE SOIL TYPES FOUND ON THIS PROJECT ARE TYPE B.

TEMPORARY SEDIMENT BASINS

THIS CONSTRUCTION PROJECT AS DESIGNED DOES NOT MEET ANY OF THE TEMPORARY SEDIMENT BASIN DISTURBED AREA THRESHOLD REQUIREMENTS (10 ACRES OF DISTURBED SOIL). THEREFORE A TEMPORARY SEDIMENT BASIN WILL NOT BE REQUIRED.

PERMANENT STORMWATER MANAGEMENT SYSTEM

ALL STORMWATER MUST BE DISCHARGED IN A MANNER THAT DOES NOT CAUSE NUISANCE CONDITIONS, EROSION IN RECEIVING WATERS OR ON DOWNSLOPE PROPERTIES, OR INUNDATION IN WETLANDS CAUSING A SIGNIFICANT ADVERSE IMPACT TO THE WETLANDS.

THIS PROJECT HAS LESS THAN 1 ACRE INCREASE IN IMPERVIOUS AREA.

CONSTRUCTION PHASING – EROSION AND SEDIMENT CONTROL SEQUENCING

SILT FENCE, CONSTRUCTION ENTRANCES, AND/OR OTHER SUITABLE PERIMETER BMP'S AS PROVIDED IN THE PLANS WILL BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITY. CONSTRUCTION WILL BE REQUIRED TO BE PHASED SO THAT ALL DOWN GRADIENT SEDIMENT CONTROL MEASURES ARE INSTALLED PRIOR TO OR IN CONJUNCTION WITH ANY SOIL DISTURBING ACTIVITIES. THESE BMP'S SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION.

WHEN THE EXISTING TOPSOIL IS DISTURBED, THE TOPSOIL WILL BE STRIPPED AND STOCKPILED IN SOIL BERMS. STOCK PILED TOPSOIL BERMS WILL NOT BE PLACED IN ANY STORMWATER CONVEYANCES.

UPON COMPLETION OF THE CONSTRUCTION ACTIVITIES, THE STOCKPILED TOPSOIL BERMS WILL BE RE-SPREAD AND PERMANENT VEGETATION WILL BE ESTABLISHED AS PROVIDED IN THE PLAN.

ALL SOIL DISTURBING ACTIVITIES MUST BE COMPLETED AND ALL SOILS MUST BE STABILIZED BY A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% OVER THE ENTIRE PVIOUS SURFACE AREA, OR OTHER EQUIVALENT MEANS NECESSARY TO PREVENT FUTURE SOIL FAILURE UNDER EROSION CONDITIONS. ALL SEDIMENT MUST BE REMOVED FROM CONVEYANCE SYSTEMS AND DITCHES MUST BE STABILIZED WITH PERMANENT COVER. FINAL STABILIZATION SHALL BE DON IN ACCORDANCE WITH PART IV.G.

EROSION PREVENTION PRACTICES, PART IV.B

FOR AREAS WHERE DISTURBED SOILS DRAIN TO AN IMPAIRED OR SPECIAL WATER THE EXPOSED SOIL MUST BE STABILIZED NO LATER THAN 7 DAYS (14 DAYS IF NOT IMPAIRED OR SPECIAL WATER) AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA CEASED. SEE THE IMPAIRED & SPECIAL WATERS SECTION OF THIS SWPPP FOR ADDITIONAL BMP REQUIREMENTS FOR DISTURBED AREAS THAT DRAIN TO A SPECIAL OR IMPAIRED WATER.

SOILS SHALL BE STABILIZED WITHIN 24 HOURS FOR ACTIVITIES THAT ARE ADJACENT TO AND DRAIN TO PUBLIC WATERS WITH RESTRICTIONS DURING FISH SPAWING TIMES.

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 POINT OF DISCHARGE INTO ANY SURFACE WATER. STABILIZATION OF THE LAST 200 LINEAL FEET MUST BE COMPLETED WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER.

PIPE CULVERT OUTLETS MUST BE PROVIDED WITH TEMPORARY OR PERMANENT ENERGY DISSIPATION WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER. THIS WILL INCLUDE DRAINAGE DITCHES THAT DRAIN WATER FROM ANY PORTION OF THE CONSTRUCTION SITE.

SEDIMENT CONTROL PRACTICES, PART IV.C

TEMPORARY STOCKPILED TOPSOIL BERMS MUST INCLUDE PERIMETER BMP'S AS PROVIDED IN THE PLAN AT LOCATIONS WHERE CONSTRUCTION STORMWATER DRAINS FROM THE PROJECT.

A 50 FOOT NATURAL BUFFER, OR REDUNDANT SEDIMENT CONTROLS IF BUFFER IS NOT FEASIBLE, SHALL BE USED NEAR SURFACE WATERS.

IN ORDER TO MAINTAIN SHEET FLOW AND MINIMIZE RILLS AND/OR GULLIES, THERE SHALL BE NO UNBROKEN SLOPE LENGTH OF GREATER THAN 75 FEET FOR SLOPES WITH A GRADE OF 1:3 OR STEEPER.

ALL STORM DRAIN INLETS AND CULVERTS MUST BE PROTECTED BY APPROPRIATE BMP'S DURING CONSTRUCTION UNTIL ALL SOURCES WITH A POTENTIAL DISCHARGE TO THE INLET OR CULVERT HAVE BEEN STABILIZED.

VEHICLE TRACKING OF SEDIMENT FROM THE CONSTRUCTION SITE MUST BE MINIMIZED BY THE USE OF A STABILIZED CONSTRUCTION ENTRANCE AND OTHER BMP'S. STREET SWEEPING MUST BE USED IF SEDIMENT IS BEING TRACKED OFF THE CONSTRUCTION SITE.

UNLESS OTHERWISE SPECIFIED IN THE PERMIT, ALL NONFUNCTIONAL BMP'S MUST BE CLEANED, REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMP'S WITHIN 24 HOURS AFTER DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW FOR ACCESS.

LOCATION OF SWPPP REQUIREMENTS

REQUIREMENT	TITLE	LOCATION	MN/DOT SPECIFICATION	SPECIAL PROVISION
NPDES PERMIT COMPLIANCE	SWPPP		1701, 1702, & 1717	1717 (AIR, LAND, & WATER) 1717 (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT)
CERTIFIED PERSONNEL IN EROSION AND SEDIMENT CONTROL SITE MANAGEMENT	PROJECT CONTACTS	SWPPP PLANSET PAGE	1506, 1717, & 2573	1717 (AIR, LAND, & WATER) 1717 (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT)
CHAIN OF RESPONSIBILITY	PROJECT CONTACTS			
PROJECT SCHEDULE / WEEKLY EROSION & SEDIMENT CONTROL SCHEDULE / COMPLETED INSPECTION / MAINTENANCE LOG				1717 (AIR, LAND, & WATER) 1717 (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT)
SWPPP PREPARATION				
SITE MAP / RECEIVING WATERS / DIRECTION OF FLOW	GENERAL LAYOUT	PLANS	1717	
PROJECT SPECIFIC CONSTRUCTION STAGING			1717	1717 (AIR, LAND, & WATER) 1717 (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT) 1806 (DETERMINATION AND EXTENSION OF CONTRACT TIME)
TEMPORARY EROSION AND SEDIMENT CONTROL BMP LOCATIONS, INSTALLATION, TIMING OF INSTALLATION, AND TYPE OF BMP	QUANTITY TABULATIONS	PLANS	2573 & 2575	2573 (STORMWATER MANAGEMENT)
ADDITIONAL TEMPORARY AND OR PERMANENT EROSION AND SEDIMENT CONTROL BMP'S NOT PROVIDED OR SHOWN IN THE PLAN			1717, 2573, & 2575	1717 (AIR, LAND, & WATER) 1717 (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT) 2575 (RAPID STABILIZATION SPECIFICATION)
MAINTENANCE OF EROSION AND SEDIMENT CONTROL DEVICES, REMOVAL OF TRACKED SEDIMENT, REMOVAL OF DEVICES	SEDIMENT CONTROL PRACTICES	SWPPP PLANSET PAGE	1717 & 2573	1514 (MAINTENANCE DURING CONSTRUCTION) 1717 (AIR, LAND, & WATER) 1717 (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT)
DEWATERING	DEWATERING & DRAINING	SWPPP DOCUMENT	2105.3B & 2451.3C	DEWATERING MAY ALSO REQUIRE A DNR PERMIT. NO DEWATERING IS ANTICIPATED FOR THIS PROJECT.
FINAL STABILIZATION	QUANTITY TABULATIONS	PLANS & SPECS	1717, 2573, & 2575	1717 (AIR, LAND, & WATER) 1717 (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT)
TEMPORARY EROSION AND SEDIMENT CONTROL DETAILS	EROSION CONTROL	PLAN DETAILS		
PERMANENT EROSION CONTROL DETAILS	EROSION CONTROL	PLAN DETAILS		

PROJECT CONTACTS

RESPONSIBLE AGENCY / PARTY	PERMIT CERTIFIED TRAINING (REFRESHER EVERY 3 YEARS)	INSTRUCTOR, DATE OF TRAINING	CONTACT NAME	PHONE NUMBER
MPCA	NPDES		ROBERTA GETMAN	507-280-2996
MPCA	EMERGENCY		STATE DUTY OFFICER	800-422-0798
DNR	NOT REQUIRED		PETER LEETE	651-296-6569
COE	NOT REQUIRED		DAVE STUDENSKI	507-895-2064
SWPPP PREPARATION	U OF MN DESIGN OF SWPPP EXPIRES 5/19		BRANDON THEOBALD	507-288-3923
INSPECTOR			TO BE DETERMINED	
PROJECT ENGINEER	U OF MN DESIGN OF SWPPP EXPIRES 5/19		BRANDON THEOBALD	507-288-3923
EROSION CONTROL SUPERVISOR (CONTRACTOR)	TO BE DETERMINED		TO BE DETERMINED	
CHAIN OF RESPONSABILITY	NOT REQUIRED		TO BE DETERMINED	

EROSION & SEDIMENT CONTROL SCHEDULE:

- 1) MARK GRADING LIMITS AND "DO NOT DISTURB AREAS".
- 2) INSTALL PERIMETER EROSION CONTROL.
- 3) CONSTRUCT STABILIZED VEHICLE EXITS.
- 4) INSTALL INLET PROTECTION.
- 5) BEGIN GRADING OPERATIONS.
- 6) INCREMENTALLY SEED AND BLANKET AREAS OR SOD AS GRADING PROGRESSES.
- 7) MAINTAIN AND UPDATE INLET PROTECTION THROUGH JOB PHASES.
- 8) COMPLETE MAINTENANCE AND REPAIRS OF EROSION AND SEDIMENT CONTROLS.
- 9) STABILIZE FINAL INCREMENT OF GRADING AREA.
- 10) MONITOR GRASS GROWTH AND RESEED/RESOD WHERE NEEDED UNTIL SITE IS STABILIZED.
- 11) REMOVE SILT FENCE AND OTHER TEMPORARY EROSION CONTROLS.
- 12) CLEAN BASINS OF ALL CONSTRUCTION RELATED SEDIMENTATION WHENEVER VOLUME REACHES 1/2 STORAGE VOLUME; WITHIN 72 HOURS.
- 13) FILE "NOTICE OF TERMINATION" WITH THE MPCA.

RECORD RETENTION

THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WILL BE AMENDED IF THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE, WEATHER OR SEASONAL CONDITIONS THAT HAS A SIGNIFICANT IMPACT ON THE DISCHARGE TO SURFACE WATERS OR UNDERGROUND WATERS. THE PLAN WILL ALSO BE AMENDED IF IT IS PROVEN TO BE INADEQUATE IN CONTROLLING POLLUTANTS IN STORM WATER DISCHARGES DUE TO CONSTRUCTION ACTIVITIES.

THE SWPPP, ORIGINAL AND COPIES, MUST BE KEPT ON SITE DURING CONSTRUCTION BY THE PERMITTEE WHO HAS OPERATIONAL CONTROL OF THE SITE. ALL OWNERS MUST KEEP THE SWPPP, TRAINING DOCUMENTATION, RECORDS OF ALL INSPECTION AND MAINTENANCE, ALL PERMANENT OPERATION AND MAINTENANCE AGREEMENTS, ALL REQUIRED CALCULATIONS FOR DESIGN OF STORMWATER MANAGEMENT SYSTEMS, AND ANY OTHER PERMITS REQUIRED FOR THE PROJECT FOR THREE (3) YEARS AFTER SUBMITTAL OF THE NOTICE OF TERMINATION AS DESCRIBED IN III.D

QUANTITIES:

1	LUMP SUM	STABILIZED CONSTRUCTION EXIT
1732	L.F.	SILT FENCE
3	EACH	INLET PROTECTION

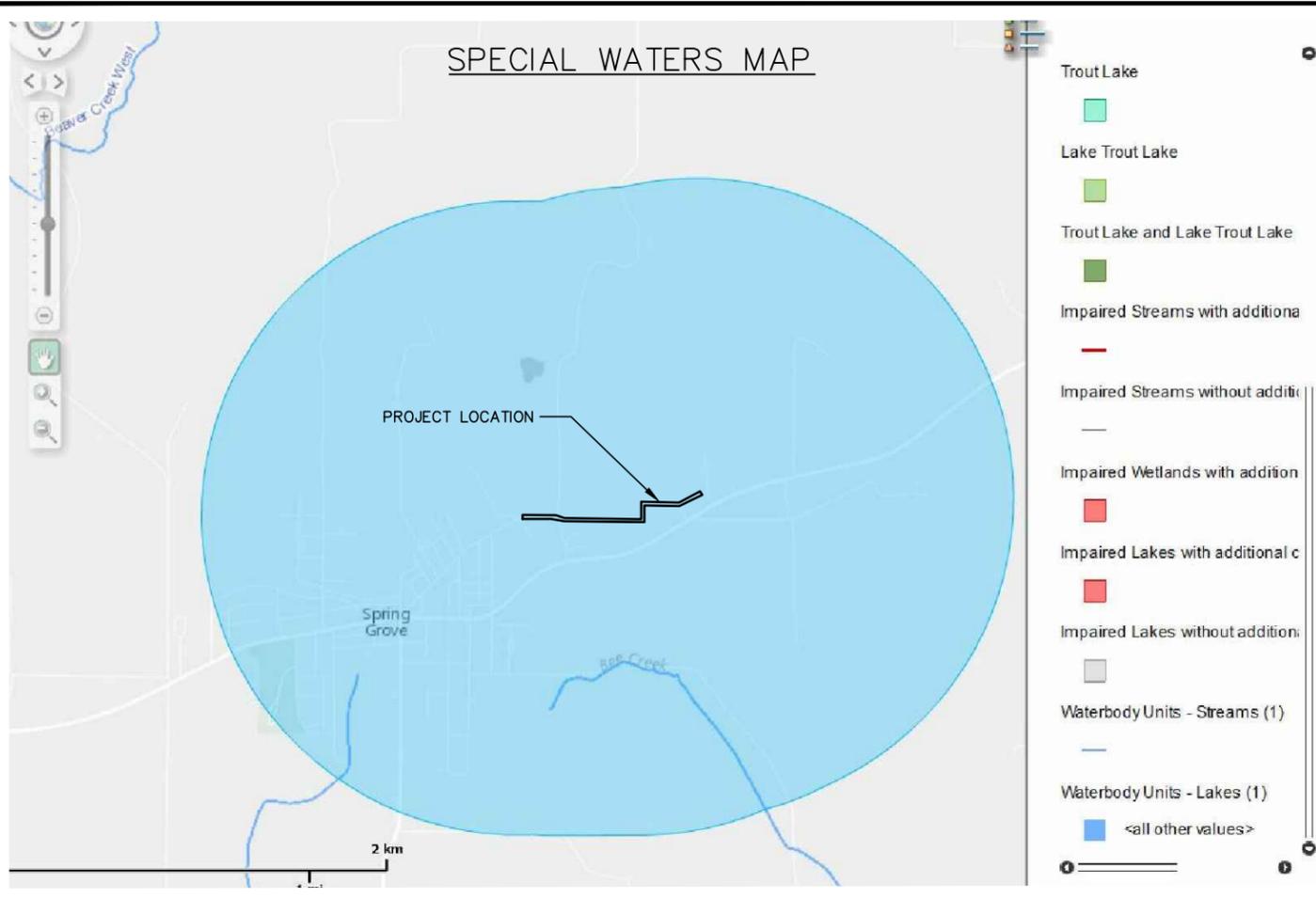
I hereby certify that this plan, specification or report was prepared by me or under my direct personal supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Timothy A. Hruka
Date 8/9/17 License No. 44930

NO.	DATE	DESCRIPTION

SWPPP
COMMERCIAL PARK LIFT STATION
SPRING GROVE, MINNESOTA
2017

SCALE:
AS SHOWN
WHKS PROJECT NO.
8440
DRAWN BY:
SGH
CHECKED BY:
TAH
SHEET
11 OF 12





POLLUTION PREVENTION MEASURES

THE CONTRACTOR WILL IMPLEMENT THE POLLUTION PREVENTION MANAGEMENT MEASURES AS DIRECTED IN THE NPDES PERMIT PART IV.F 1-4 AS PERTAINING TO SOLID WASTE, HAZARDOUS MATERIALS, EXTERNAL TRUCK WASHING, AND CONCRETE WASHOUT ON SITE.

SOLID WASTE: NON-HAZARDOUS WASTE SUCH AS COLLECTED SEDIMENT, FLOATING DEBRIS, PAPER, PLASTIC, FABRIC, CONSTRUCTION DEBRIS AND OTHER WASTES SHALL BE STOCKPILED AT AN APPROVED LOCATION. ALL NON-HAZARDOUS WASTE SHALL BE DISPOSED OF PROPERLY AND IN ACCORDANCE WITH MPCA REQUIREMENTS AND MNDOT SPECIFICATION 1717.A.4.

HAZARDOUS WASTE: ALL HAZARDOUS WASTE SUCH AS OIL, GASOLINE, PAINT AND ANY HAZARDOUS SUBSTANCES MUST BE PROPERLY STORED. STORAGE SHALL INCLUDING SECONDARY CONTAINMENT OR OTHER MEASURES TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGES. ACCESS TO STORAGE AREAS MUST BE RESTRICTED TO PREVENT VANDALISM. STORAGE AND DISPOSAL OF HAZARDOUS WASTE MUST COMPLY WITH MANUFACTURERS' RECOMMENDATIONS AND THE MPCA REQUIREMENTS.

CONSTRUCTION VEHICLE WASHING: EXTERNAL WASHING OF TRUCKS AND CONSTRUCTION VEHICLES WILL NOT BE ALLOWED ON SITE. ENGINE DEGREASING IS NOT ALLOWED ON SITE.

FUELING AND SPILL PLAN: THE CONTRACTOR SHALL HAVE A FUELING OPERATION PLAN AND A PLAN IN THE EVENT OF A SPILL

CHEMICAL TREATMENT PLAN: THE CONTRACTOR SHALL HAVE A CHEMICAL TREATMENT PLAN THAT INCLUDES CHEMICALS USED FOR FLOCCULATION

SANITARY AND SEPTIC WASTE: PORTABLE TOILETS ON THE SITE MUST BE SECURED AND SANITARY WASTE DISPOSAL WILL COMPLY WITH THE MPCA SEPTAGE MANAGEMENT GUIDELINES INCORPORATING 40 CFR PART 503.

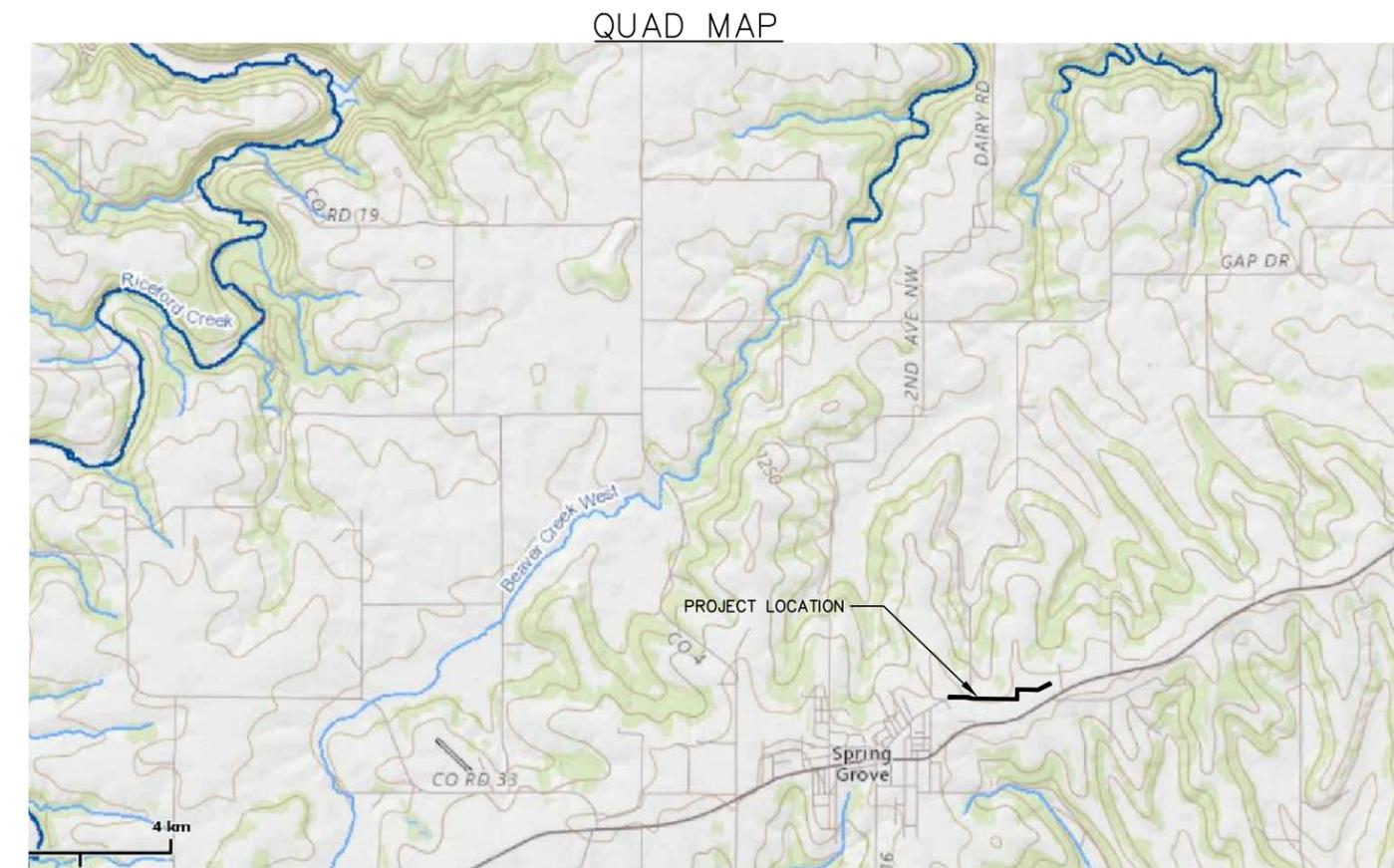
FOR CONCRETE WASHOUT ON SITE, ALL LIQUID AND SOLID WASTES GENERATED BY CONCRETE WASHOUT OPERATIONS MUST BE CONTAINED IN A LEAK-PROOF CONTAINMENT FACILITY OR IMPERMEABLE LINER. A COMPACTED CLAY LINER THAT DOES NOT ALLOW WASHOUT LIQUIDS TO ENTER GROUND WATER IS CONSIDERED AN IMPERMEABLE LINER. THE LIQUID 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.

THESE MANAGEMENT MEASURES FOR POLLUTION PREVENTION WILL BE STRICTLY ENFORCED.

SOILS MAP



Hydrologic Soil Group— Summary by Map Unit — Houston County, Minnesota (MN055)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
285A	Port Byron silt loam, 1 to 3 percent slopes	B	1.2	24.7%
285B	Port Byron silt loam, 3 to 6 percent slopes	B	1.0	20.1%
401B	Mt. Carroll silt loam, 2 to 6 percent slopes, moderately eroded	B	0.1	1.5%
401C	Mt. Carroll silt loam, 6 to 12 percent slopes, moderately eroded	B	2.4	49.1%
476D	Frankville silt loam, 12 to 20 percent slopes	C	0.0	0.1%
492B	Nasset silt loam, 3 to 6 percent slopes	B	0.2	4.5%
Totals for Area of Interest			5.0	100.0%



I hereby certify that this plan, specification or report was prepared by me or under my direct personal supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
 Timothy A. Hruka
 Date 8/9/17 License No. 44930

NO.	DATE	DESCRIPTION

SWPPP
 COMMERCIAL PARK LIFT STATION
 SPRING GROVE, MINNESOTA
 2017

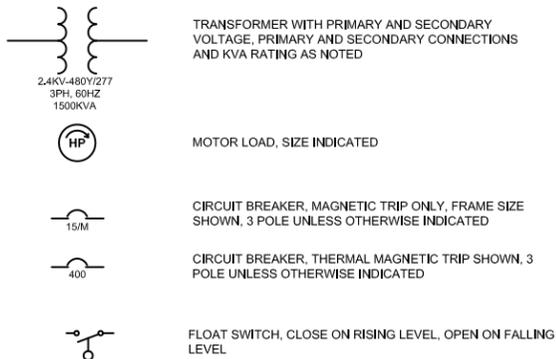
SCALE: AS SHOWN
 WHKS PROJECT NO.
 DRAWN BY: SGH
 CHECKED BY: TAH
 SHEET
 12 OF 12



DIVISION 16 - ELECTRICAL GENERAL REQUIREMENTS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING ALL CONDUITS NOT SHOWN ON THE PLANS. THIS SHALL INCLUDE ALL CONDUITS SHOWN ON THE ONE-LINES AND INDICATED ON THE PLAN DRAWINGS. CONDUITS SHALL BE ROUTED AS DEFINED IN THE SPECIFICATIONS. REUSE EXISTING CONDUIT AND CONDUCTORS WHERE NOTED AND APPLICABLE.
2. DO NOT ROUTE CONDUITS THROUGH OR UNDER EQUIPMENT ACCESS AND OTHER OPENINGS IN FLOOR AND CEILING. DO NOT INSTALL CONDUITS ACROSS SKYLIGHTS, WINDOW OR GLASS BLOCK WALLS, ETC. DO NOT INSTALL CONDUITS UNDER REMOVABLE GRATINGS.
3. SPARE WIRES SHALL BE LABELED, TAPED, AND COILED.
4. IF EQUIPMENT SUPPLIED BY MANUFACTURER HAS A LARGER LOAD THAN VALUE SHOWN, THE CABLE, CONDUIT, AND ELECTRICAL EQUIPMENT SHALL BE ENLARGED, AS REQUIRED, TO ACCOMMODATE THE HIGHER VALUE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING PROPERLY SIZED STARTER OVERLOADS FOR EQUIPMENT FURNISHED.
6. IN GENERAL, LIGHTING, RECEPTACLE, AND OTHER LIGHTING AND POWER PANEL CIRCUITS DESIGNATED ON THE FLOOR PLANS AND ON PANEL SCHEDULES ARE NOT SHOWN ON THE ONE LINES. CONDUCTORS AND CONDUIT SHALL BE SIZED ACCORDING TO THE RESPECTIVE OVERCURRENT DEVICE AND ACCORDING TO THE NATIONAL ELECTRIC CODE. CONDUCTORS FOR LIGHTING, RECEPTACLES, AND MISCELLANEOUS PANELBOARD CIRCUITS SHALL BE MINIMUM NO. 12 AWG FOR CIRCUIT LENGTHS LESS THAN 75 FEET AND NO. 10 AWG FOR LENGTHS GREATER THAN 75 FEET. CONDUIT FOR LIGHTING, RECEPTACLES, AND MISCELLANEOUS PANELBOARD CIRCUITS SHALL BE MINIMUM 3/4".
7. IN AREAS WHERE THERE ARE OVERHEAD BRIDGE CRANES, HOISTS, ETC., NO CONDUITS SHALL BE RUN OVERHEAD THAT WILL INTERFERE WITH THE OPERATION OF THE EQUIPMENT.
8. WIRE AND CONDUIT SIZES GIVEN ARE MINIMUM SIZES, WIRE AND CONDUIT SIZES MAY BE INCREASED AS REQUIRED BY CONTRACTOR BUT IN NO CASE SHALL BE SMALLER THAN THE DESIGNATED SIZES NOTED IN THE DRAWINGS AND SPECIFICATIONS. IF WIRE SIZES ARE INCREASED, INCREASE CONDUIT SIZES ACCORDINGLY TO COMPLY WITH THE NATIONAL ELECTRIC CODE.
9. INSTALL CHANNEL BETWEEN STRUCTURAL SUPPORT BEAMS OF PLATFORMS TO SUPPORT LUMINAIRES, JUNCTION BOXES, ELECTRICAL DEVICES, AND/OR DETECTORS.
10. THE INFORMATION SHOWN ON THE FOLLOWING DRAWINGS HAS BEEN TAKEN FROM PREVIOUS PLAN DOCUMENTS. ACTUAL CONSTRUCTION OF FACILITIES MAY VARY FROM THAT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ACTUAL CONDITIONS.
11. THIS IS A STANDARD LEGEND SHEET, SOME SYMBOLS MAY APPEAR ON THIS DRAWING AND NOT ON THE PLANS.
12. FOR ABBREVIATIONS OF OTHER DIVISIONS, SEE OTHER LEGENDS.

ELECTRICAL SYMBOLS



ABBREVIATIONS

- A AMPERES
- AF AMP FRAME
- AFB ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- BFG BELOW FINISHED GRADE
- BRKR BREAKER
- CB CIRCUIT BREAKER
- CKT CIRCUIT
- CP CONTROL PANEL
- EXST EXISTING
- G GROUND
- GND GROUND
- HH HANDHOLE
- HP HORSEPOWER
- J, J-BOX JUNCTION BOX
- MH MANHOLE
- MSC MANUFACTURER SUPPLIED CABLE
- MTD MOUNTED
- N NEUTRAL
- N/A NOT APPLICABLE
- NEC NATIONAL ELECTRIC CODE
- PNL PANEL
- RCPT RECEPTACLE
- UPS UNINTERRUPTIBLE POWER SUPPLY
- VFD VARIABLE FREQUENCY DRIVE
- V VOLT

DRAWING INDEX

SHEET	DRAWING	TITLE
1	E-1	ELECTRICAL LEGEND AND DETAILS
2	E-2	ELECTRICAL SITE PLAN AND ONE-LINE

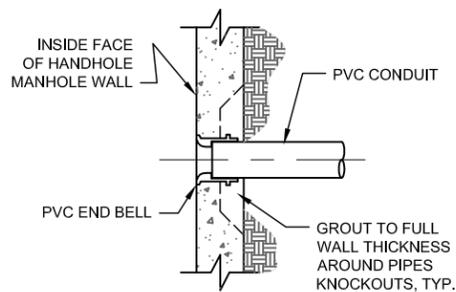
NO.	BY	CHK	APP	REVISIONS	DATE

I hereby certify that this 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.

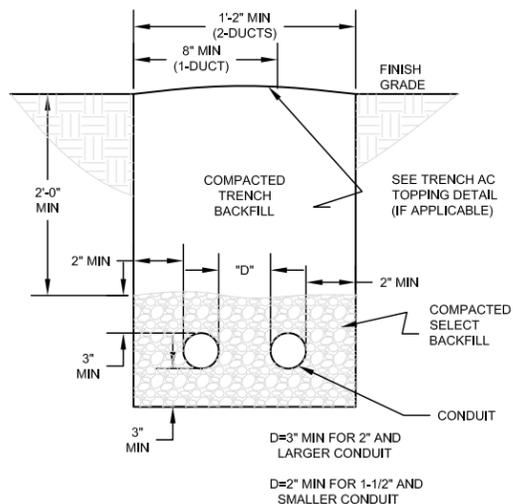
Print Name: ROBERT J. FLAHERTY
Signature: *[Signature]*
Date: 7/27/2017 License # 46239

ELECTRICAL DETAILS

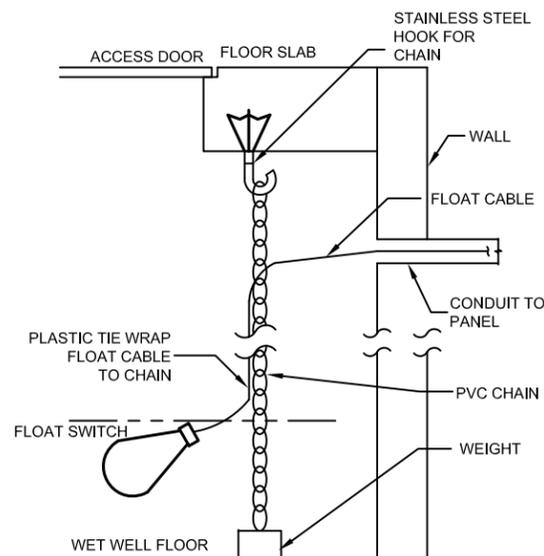
01 CONDUIT HANDHOLE/MANHOLE ENTRANCE



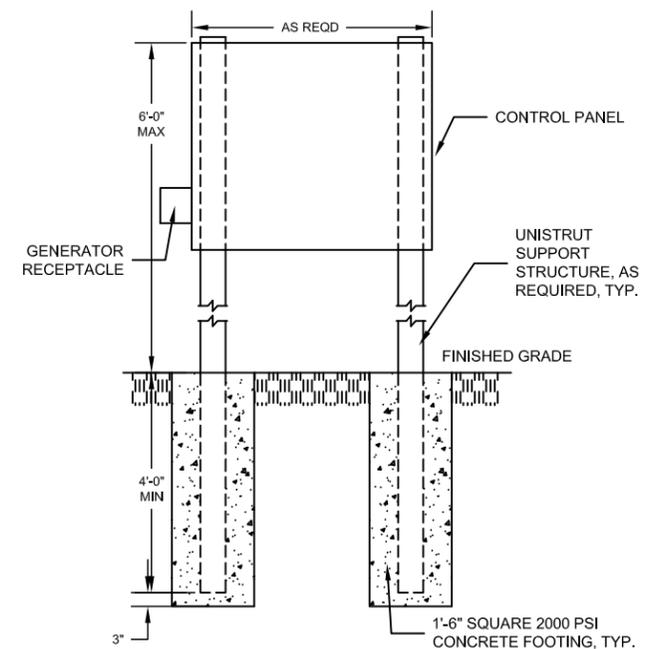
13 TRENCH AND CONDUIT PLACEMENT



41 FLOAT SWITCH INSTALLATION



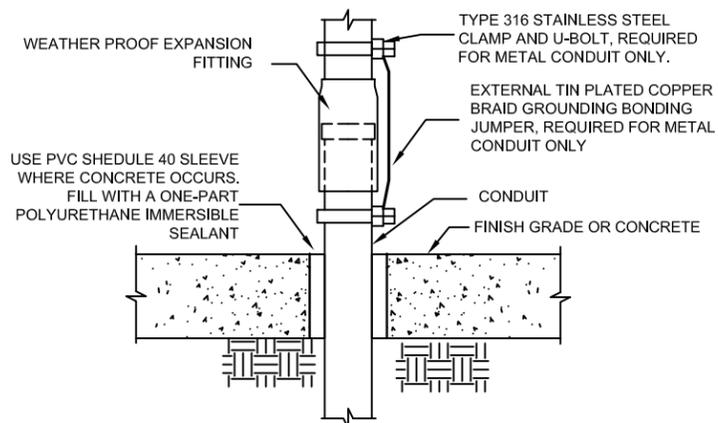
20 ENCLOSURE SUPPORT DETAIL



NOTES:

1. USE STAINLESS STEEL MOUNTING HARDWARE (BOLTS, NUTS, WASHERS, ETC.) FOR ASSEMBLY OF STRUCTURE AND MOUNTING OF EQUIPMENT.
2. MODIFY SUPPORT STRUCTURE FROM THAT SHOWN, AS REQUIRED, FOR PROPER SUPPORT OF EQUIPMENT.

38 EXPANSION FITTING FOR SOIL MOVEMENT



integrated technology
ENGINEERING, INC.
Rochester, Minn.
507-282-5736

**CITY OF SPRING GROVE, MN
COMMERCIAL PARK LIFT STATION
ELECTRICAL
LEGEND AND DETAILS**

DRAWN BY: R.F.
APPROVED: R.F.
DATE: 7/27/2017
PROJECT NO: 8440
SCALE: N/A

DRAWING
E-1
SHEET
1 OF 2

