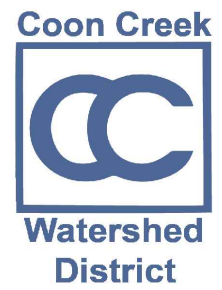


CONSTRUCTION PLANS FOR PLEASURE CREEK BIOCHAR-AND- IRON-ENHANCED SAND FILTER JULY 2019

OWNER



COON CREEK WATERSHED DISTRICT
13632 VANBUREN STREET NORTHEAST
HAM LAKE, MN 55304
(P)- 763-755-0975
CONTACT: JON JANKE

ENGINEER

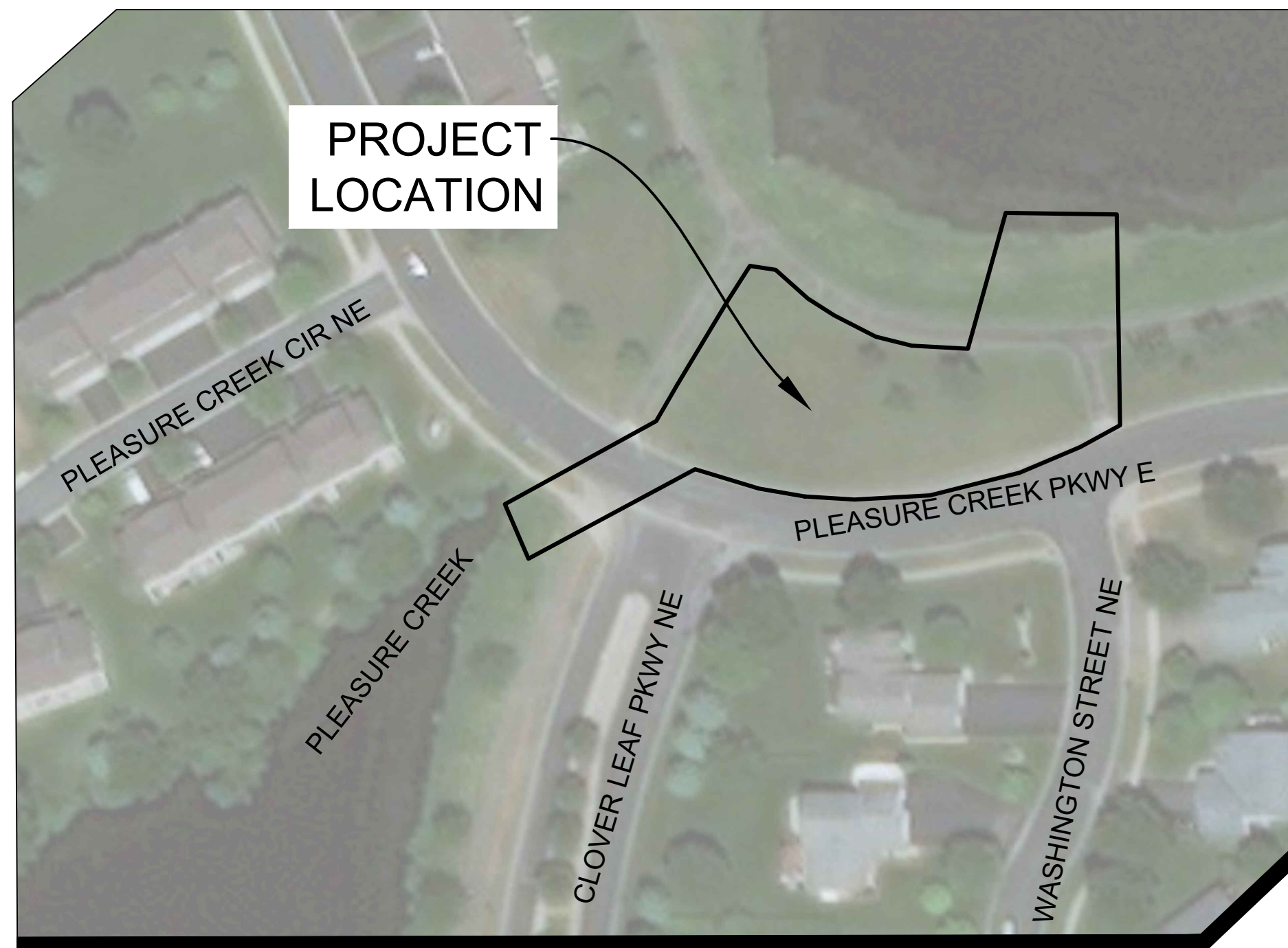


WENCK ASSOCIATES, INC.
7500 OLSON MEMORIAL HWY
SUITE 300
GOLDEN VALLEY, MN 55427
(P) - 763-252-6800
CONTACT: ED MATTHIESEN, P.E.

PARTNER



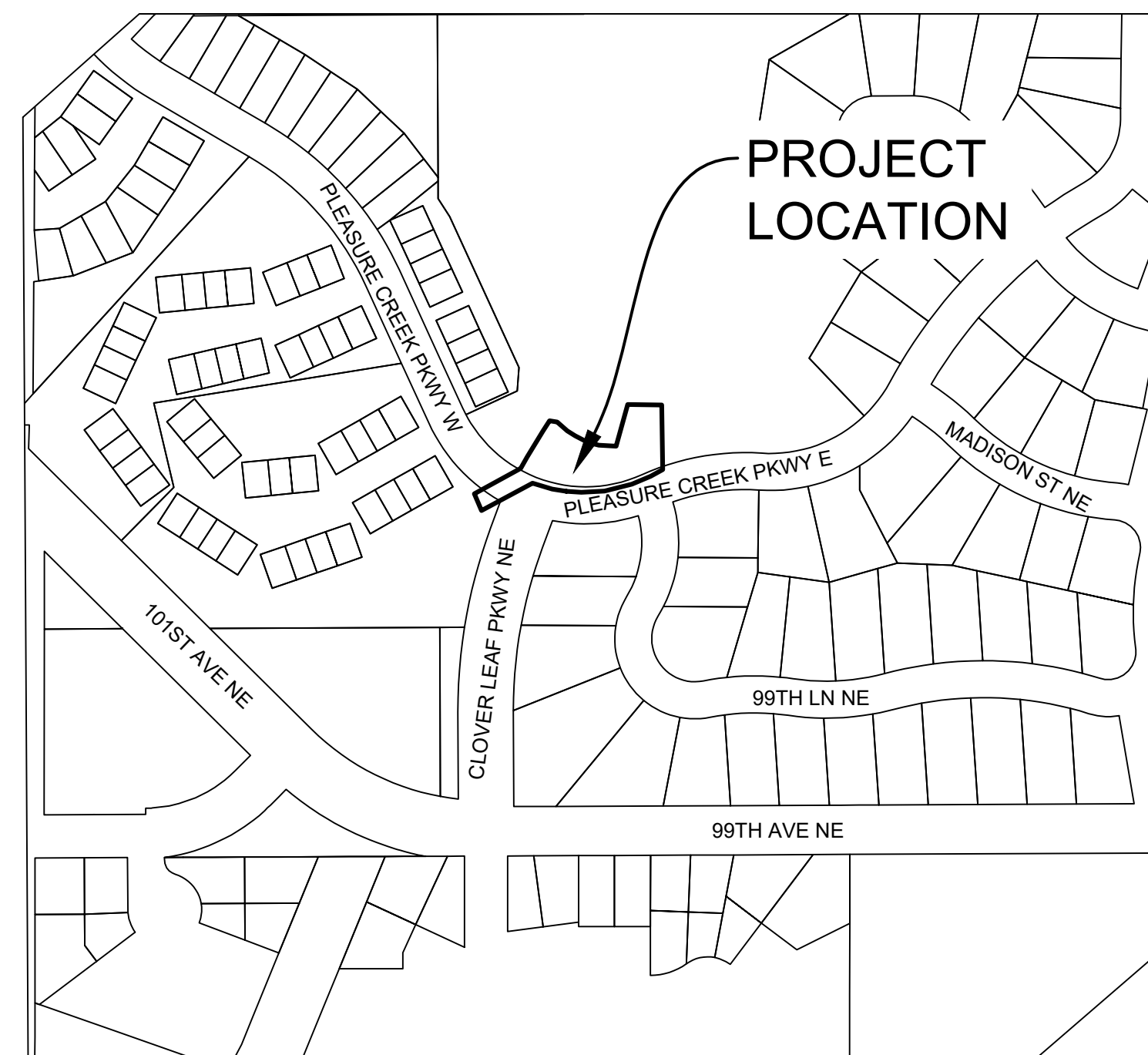
BLAINE



PROJECT LOCATION MAP

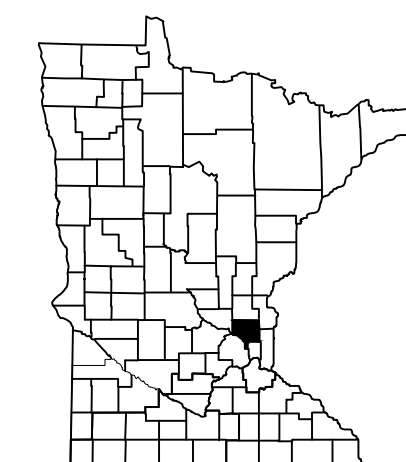
NOT TO SCALE

SHEET INDEX	
Sheet Number	Sheet Title
G-100	COVER SHEET
C-200	EXISTING CONDITIONS, REMOVALS AND SURCHARGE PLAN
C-300	PRE-CONSTRUCTION EROSION CONTROL PLAN
C-301	POST CONSTRUCTION EROSION CONTROL PLAN
C-400	GRADING AND UTILITY PLAN
C-800	DETAILS
C-801	DETAILS
C-802	DETAILS
L-100	LANDSCAPE PLAN
E-100	ELECTRICAL PLAN



PROJECT VICINITY MAP

NOT TO SCALE



PROJECT LOCATION
CITY: BLAINE
COUNTY: ANOKA

WARNING:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

CALL BEFORE YOU DIG

GOPHER STATE ONE CALL

TWIN CITY AREA: 651-454-0002
TOLL FREE 1-800-252-1166



Responsive partner.
Exceptional outcomes.

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FAX: 952-831-1268
WWW.WENCK.COM

CLIENT:



13632 VANBUREN STREET NE
HAM LAKE, MN 55304
PHONE: 763-755-0975
WWW.COONCREEKWD.ORG

PLEASURE CREEK BIOCHAR-AND-
IRON-ENHANCED SAND FILTER

BLAINE
ANOKA COUNTY, MN

PROJECT TITLE:

ISSUE NO:

1		
2		
3		

DESCRIPTION:

60% DESIGN PLANS		
80% DESIGN PLANS		
CITY/CARD COMMENTS		

DATE:

06/18/2019		
07/11/2019		
07/23/2019		

CERTIFICATION:

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A FULLY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

LICENSE NO.:

DATE:

PROJECT NO.: 1239-0100-04

DWN BY: BJS CHKD BY: ERM APP'D BY: EAM

ISSUE DATE: 7/2019

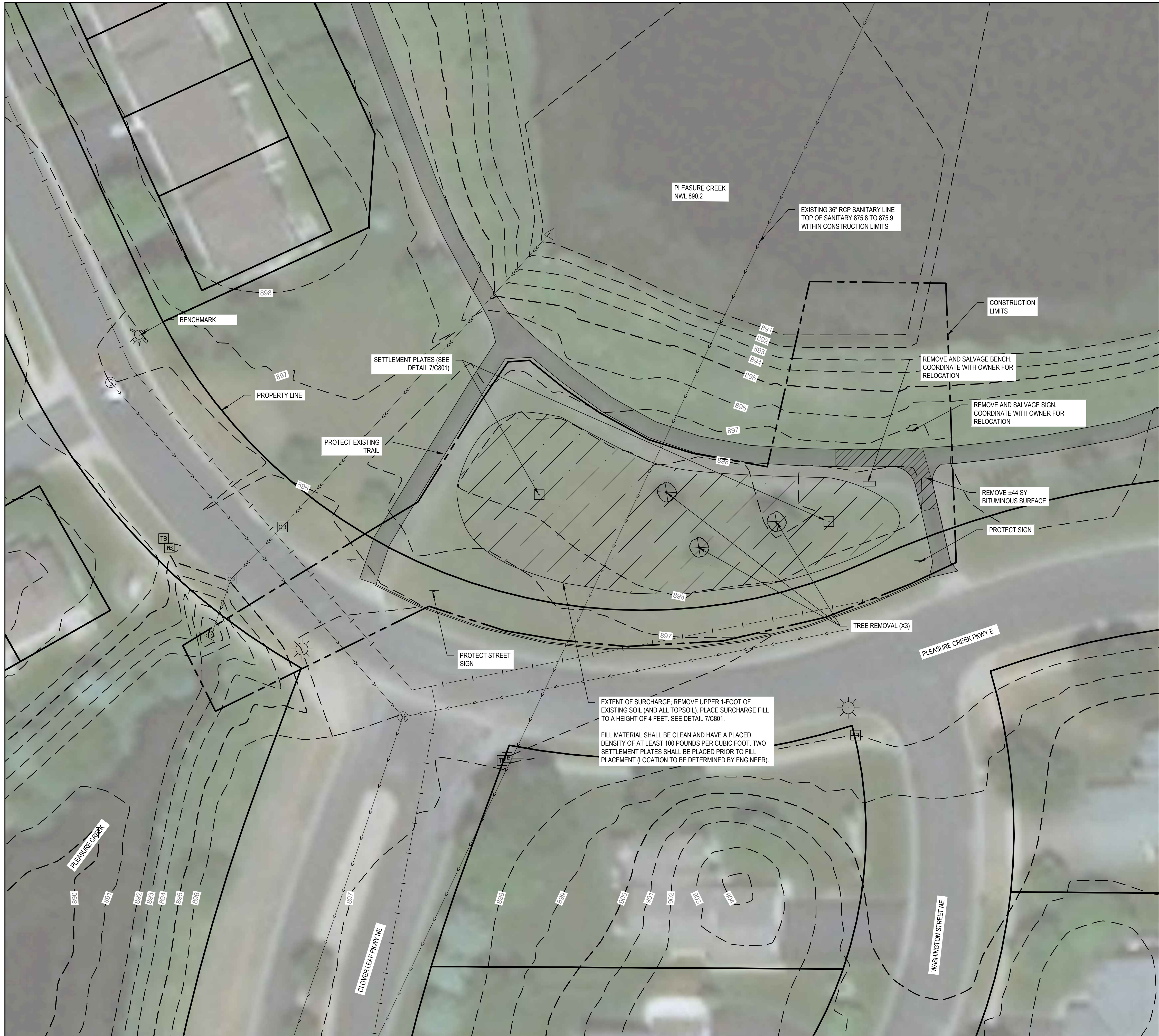
ISSUE NO.: ISSUE #

SHEET TITLE:

COVER SHEET

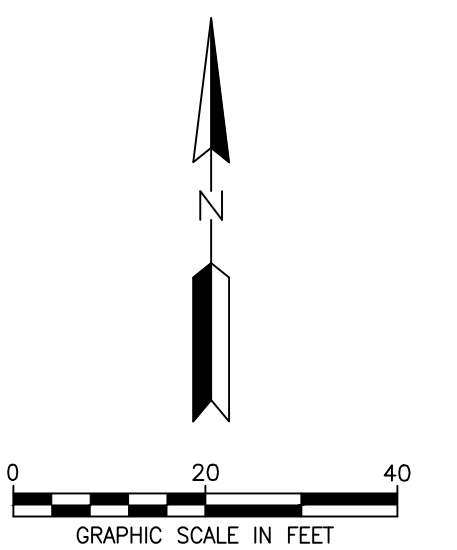
SHEET NO.:

G-100



EXISTING CONDITIONS, REMOVALS, AND SURCHARGE LEGEND

- PROPERTY LINE
- 901 EXISTING MINOR CONTOUR
- 900 EXISTING MAJOR CONTOUR
- CONSTRUCTION LIMITS
- EXISTING CURB AND GUTTER
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING COMMUNICATIONS PEDESTAL
- EXISTING SANITARY MANHOLE
- EXISTING STORM SEWER MANHOLE
- EXISTING STORM SEWER INLET
- EXISTING FLARED END SECTION
- EXISTING HYDRANT
- EXISTING LIGHT POLE
- EXISTING SIGN
- EXISTING BITUMINOUS
- REMOVE BITUMINOUS PAVEMENT
- REMOVE DECIDUOUS TREE
- SURCHARGE AREA



GENERAL NOTES

1. EXISTING CONDITIONS SHOWN ARE FROM A TOPOGRAPHIC SURVEY COMPLETED BY WENCK ASSOCIATES DATED APRIL 29, 2019. EXISTING FEATURES MAY NOT BE EXACT TO THEIR LOCATION. CONTRACTOR RESPONSIBLE FOR VERIFYING THE CONDITIONS OF THE SITE AND MUST IMMEDIATELY NOTIFY THE ENGINEER OF DISCREPANCIES OR VARIATIONS FROM THE DRAWINGS.
2. CONTRACTOR RESPONSIBLE FOR CONTACTING GOPHER STATE ONE CALL (1-800-252-1166) A MINIMUM OF 48 HOURS IN ADVANCE (EXCLUDING HOLIDAYS AND WEEKENDS) BEFORE STARTING WORK FOR LOCATIONS OF UNDERGROUND UTILITIES.
3. QUANTITIES ARE APPROXIMATE, AND MAY VARY TO ALLOW COMPLETION OF WORK.
4. WORK AND MATERIALS MUST COMPLY WITH CITY, COUNTY, STATE, AND FEDERAL (INCLUDING OSHA) REGULATIONS AND CODES.
5. CONTRACTOR SHALL COORDINATE AND MAINTAIN STORMWATER DRAINAGE CONVEYANCE THROUGHOUT CONSTRUCTION (BOTH PIPED AND OVERLAND FLOW).
6. CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING PAVEMENT, SITE FEATURES, UTILITIES, TREES, ETC., UNLESS NOTED OR SHOWN OTHERWISE.
7. EXISTING PAVEMENT AND SITE CONDITIONS HAVE BEEN DOCUMENTED AND ANY DAMAGE TO THE EXISTING PAVEMENT, CURBING, STRIPING, OR OTHER SITE FEATURE TO REMAIN MUST BE REPLACED BY THE CONTRACTOR, TO OWNER'S SATISFACTION, AT NO ADDITIONAL COST TO THE OWNER.
8. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING CONSTRUCTION AND WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES.
9. CONTRACTOR MUST IMMEDIATELY NOTIFY THE OWNER AND ENGINEER OF DISCREPANCIES OR CONFLICTS IN THE CONTRACT DOCUMENTS BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS ARE TO BE MADE WITHOUT PRIOR APPROVAL FROM THE OWNER AND ENGINEER. FAILURE TO NOTIFY OWNER AND ENGINEER OF AN IDENTIFIABLE CONFLICT BEFORE PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
10. CONTRACTOR SHALL HAVE ONE COPY OF EACH REQUIRED CONSTRUCTION PERMIT AND ONE COPY OF THE MOST CURRENT AND COMPLETE SET OF CONSTRUCTION DOCUMENTS (INCLUDING PLANS, SPECIFICATIONS, GEOTECHNICAL REPORT AND SPECIAL CONDITIONS AND PROVISIONS) AVAILABLE AT THE PROJECT SITE AT ALL TIMES.
11. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR IMPLEMENTATION AND ENFORCEMENT OF SAFE WORK PRACTICES, INCLUDING, BUT NOT LIMITED TO PERSONNEL MONITORING, USE OF TRENCHING, SHEETING, AND SHORING, SCAFFOLDING, MATERIALS HANDLING AND DRILLING, OPERATION OF EQUIPMENT, AND SAFETY OF PUBLIC DURING PROGRESS OF WORK.
12. CONTRACTOR SHALL PLAN FOR AND ENSURE PERSONNEL COMPLY WITH BASIC PROVISIONS OF OSHA SAFETY AND HEALTH STANDARDS (29 CFR 1910) AND GENERAL CONSTRUCTION STANDARDS (29 CFR 1926) AS APPROPRIATE.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH WORK. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS FOR SAFETY OF EMPLOYEES ON PROJECT SITE AND OTHER PERSONS AND ORGANIZATIONS WHO MAY BE AFFECTED BY THE PROJECT. CONTRACTOR'S DUTIES AND RESPONSIBILITIES FOR SAFETY IN CONNECTION WITH WORK SHALL CONTINUE UNTIL SUCH TIME AS ALL WORK IS COMPLETED, AND ENGINEER HAS ISSUED NOTICE TO CONTRACTOR THAT WORK IS COMPLETE.

HORIZONTAL AND VERTICAL CONTROL NOTES

1. HORIZONTAL DATUM: ANOKA COUNTY COORDINATE SYSTEM NAD83(11)
2. VERTICAL DATUM: NAVD88
3. BENCHMARK: TOP NUT HYDRANT

WARNING:

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WWW.COONCREEKWD.ORG

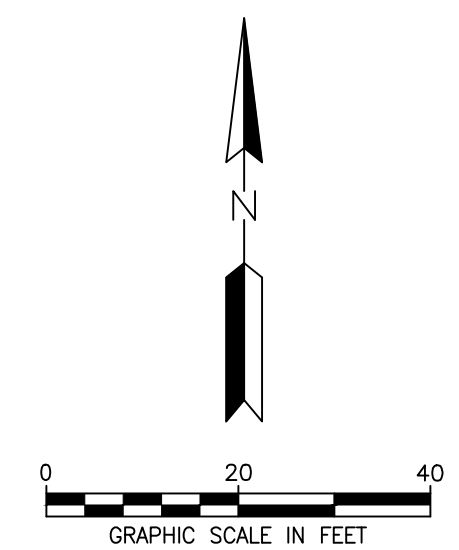
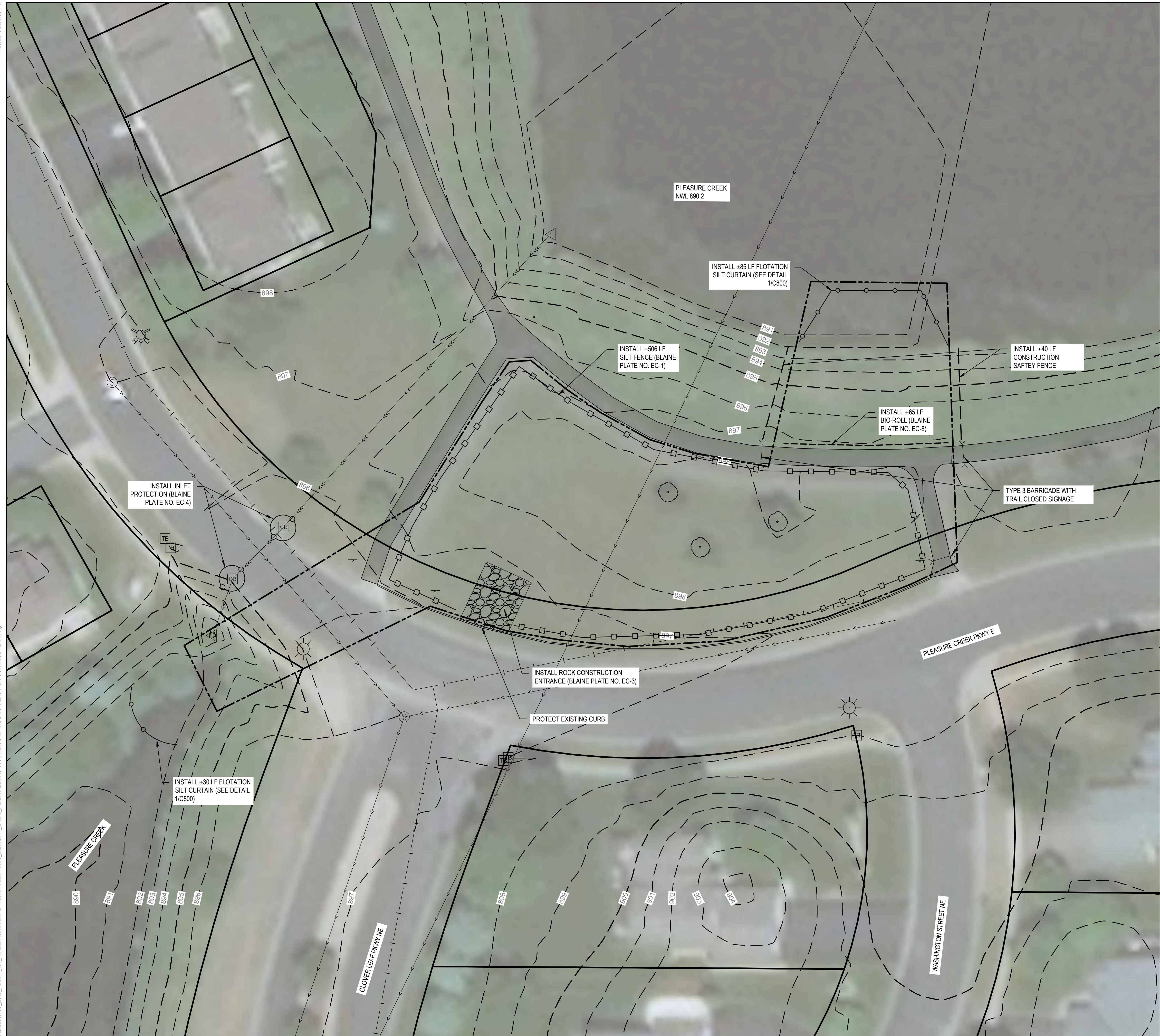
PROJECT TITLE:
PLEASURE CREEK BIOCHAR-AND-IRON-ENHANCED SAND FILTER

BLAINE
ANOKA COUNTY, MN

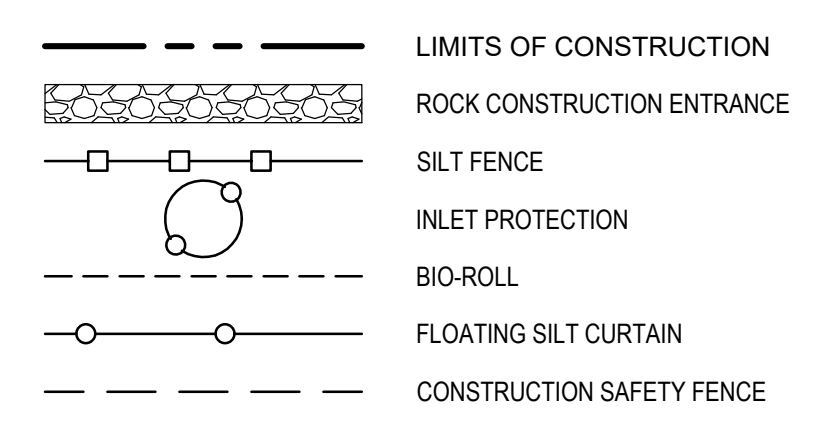
ISSUE NO.	DESCRIPTION	DATE
1	60% DESIGN PLANS	06/18/2019
2	80% DESIGN PLANS	07/01/2019
3	CITY/CORP COMMENTS	07/26/2019

CERTIFICATION:
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

LICENSE NO.: _____
DATE: _____
PROJECT NO.: 1239-0100-04
DWN BY: BJS CHKD BY: ERM APPD BY: EAM
ISSUE DATE: 7/2019
ISSUE NO.: _____ ISSUE # _____
SHEET TITLE:
EXISTING CONDITIONS, REMOVALS AND SURCHARGE PLAN
SHEET NO.: _____



EROSION CONTROL LEGEND



EROSION CONTROL NOTES:

- BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS, OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER, OR AS SITE CONDITIONS DICTATE.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDING ON SITE CONDITIONS DURING CONSTRUCTION. COORDINATE WITH ENGINEER.
- ALL EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO COMMENCEMENT OF WORK, MAINTAINED THROUGHOUT DURATION OF PROJECT, AND REMOVED UPON ESTABLISHMENT OF FINAL STABILIZATION AS DIRECTED BY ENGINEER. EROSION CONTROL MEASURES USED FOR CONSTRUCTION SHALL NOT BE REMOVED UNTIL AUTHORIZED BY OWNER OR ENGINEER.
- MINIMIZE DUST FROM CONSTRUCTION OPERATIONS BY PROVIDING WATER OR OTHER APPROVED METHOD ON A DAILY BASIS (INCIDENTAL).
- FINAL STABILIZATION TO BE COMPLETED WITHIN ONE WEEK (7 DAYS) OF SITE GRADING. ALL DISTURBED AREAS SHALL BE STABILIZED WITH SEED, SOD, OR ROCK BASE, AS DETAILED ON THE CONSTRUCTION DOCUMENTS.
- TEMPORARY SEEDING OR OTHER APPROVED METHODS OF STABILIZATION SHALL BE INITIATED WITHIN 7 DAYS OF THE LAST DISTURBANCE ON ANY AREA OF THE SITE.
- SOIL STOCKPILES SHALL BE FITTED WITH SEDIMENT TRAPPING MEASURES AND STABILIZED WITHIN 7 DAYS OF INACTIVITY.
- SITE ENTRY AND EXIT LOCATIONS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ON A PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR OTHER BMP. ALL FINES IMPOSED FOR DISCHARGING SEDIMENT ONTO PUBLIC AREAS SHALL BE PAID BY THE CONTRACTOR.
- SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.

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GOPHER STATE ONE CALL

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TOLL FREE 1-800-252-1166

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Exceptional outcomes.

7500 OLSON MEMORIAL HWY
SUITE 300
GOLDEN VALLEY, MN 55427
PHONE: 763-252-6800
FAX: 952-831-1268
WWW.WENCK.COM

CLIENT:

13632 VANBUREN STREET NE
HAM LAKE, MN 55304
PHONE: 763-755-0975
WWW.COONCREEKWD.ORG

PROJECT TITLE:
PLEASURE CREEK BIOCHAR-AND-IRON-ENHANCED SAND FILTER

BLAINE
ANOKA COUNTY, MN

DATE	DESCRIPTION	ISSUE NO.
06/18/2019	60% DESIGN PLANS	1
07/01/2019	80% DESIGN PLANS	2
07/23/2019	CITY/CADD COMMENTS	3

CERTIFICATION:
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LICENSE NO.: _____
DATE: _____

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DWN BY: BJS CHKD BY: ERM APP'D BY: EAM
ISSUE DATE: 7/2019

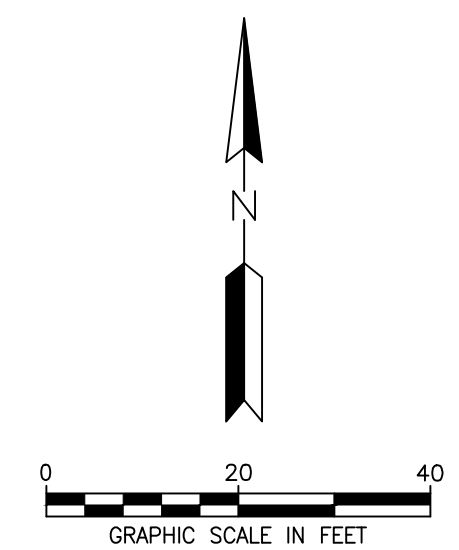
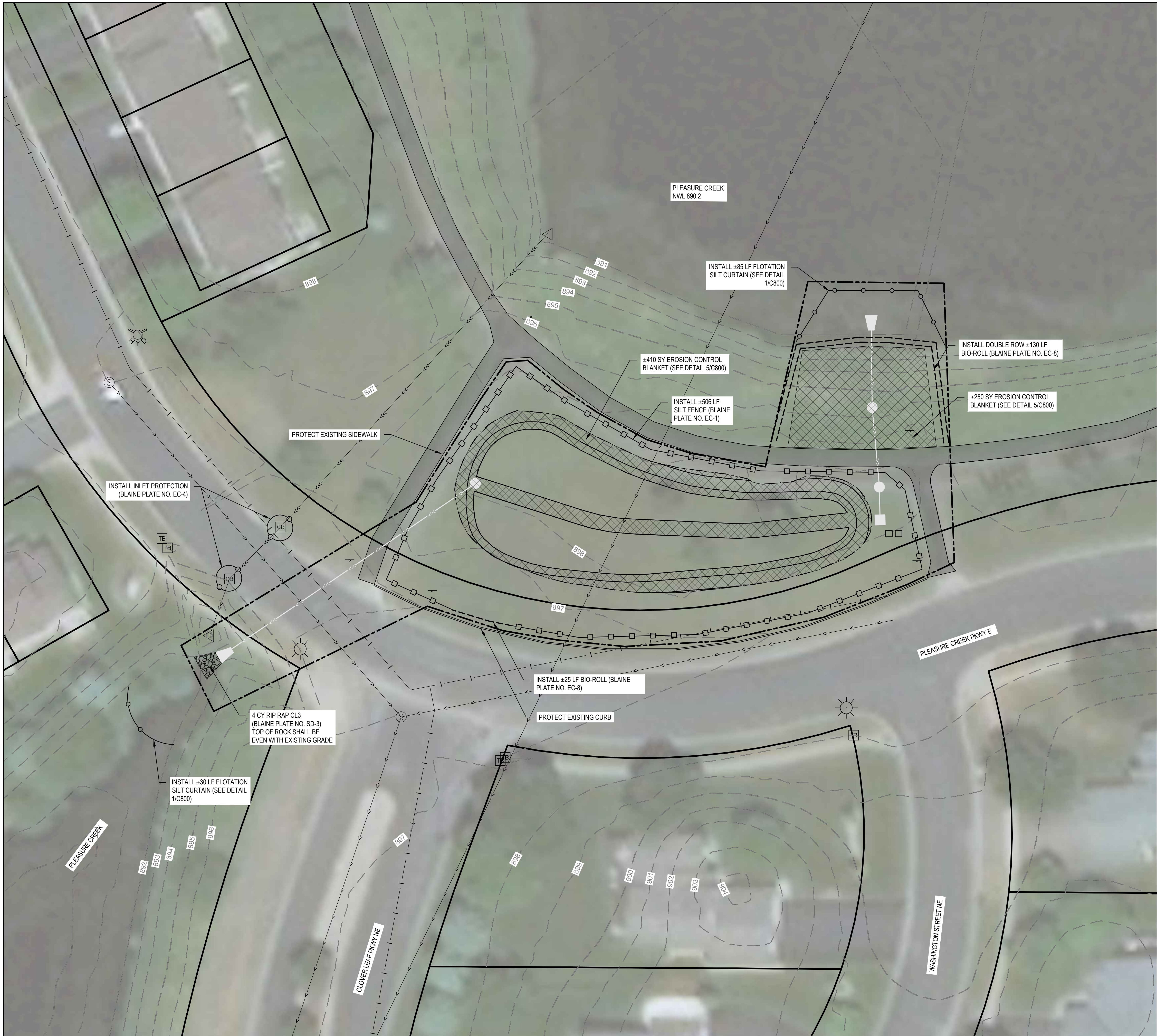
ISSUE NO.: _____ ISSUE # _____

SHEET TITLE:
PRE-CONSTRUCTION EROSION CONTROL PLAN

SHEET NO.: **C-300**

7/26/2019 3:51:46 PM

M:\12380100_2019_Planning\04_Pleasure Creek Iron-Enhanced Sand Filter\5_DESIGN\1_CADD\1_PLANSHEET\301_POST-CONSTRUCTION EROSION CONTROL PLAN.dwg



EROSION CONTROL LEGEND

- LIMITS OF CONSTRUCTION
- [Pattern] ROCK CONSTRUCTION ENTRANCE
- [Pattern] EROSION CONTROL BLANKET (CATEGORY 2, TYPE 2S) WITH MNDOT SEED MIX 33-262
- [Symbol] RIPRAP
- [Symbol] SILT FENCE
- [Symbol] INLET PROTECTION
- [Symbol] BIO-ROLL
- [Symbol] FLOATING SILT CURTAIN

EROSION CONTROL NOTES:

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4. CONTRACTOR TO ENSURE NO SEDIMENT ENTERS THE BIOCHAR-AND-IRON-ENHANCED SAND FILTERS. IF SEDIMENT ENTERS THE FILTERS, CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF SEDIMENT.
5. MINIMIZE DUST FROM CONSTRUCTION OPERATIONS BY PROVIDING WATER OR OTHER APPROVED METHOD ON A DAILY BASIS (INCIDENTAL).
6. FINAL STABILIZATION TO BE COMPLETED WITHIN ONE WEEK (7 DAYS) OF SITE GRADING. ALL DISTURBED AREAS SHALL BE STABILIZED WITH SEED, SOD, OR ROCK BASE, AS DETAILED ON THE CONSTRUCTION DOCUMENTS.
7. TEMPORARY SEEDING OR OTHER APPROVED METHODS OF STABILIZATION SHALL BE INITIATED WITHIN 7 DAYS OF INACTIVITY.
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CLIENT:

Coon Creek Watershed District

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 HAM LAKE, MN 55304
 PHONE: 763-755-0975
 WWW.COONCREEKWD.ORG

PLEASURE CREEK BIOCHAR-AND-IRON-ENHANCED SAND FILTER

BLAINE
 ANOKA COUNTY, MN

PROJECT TITLE:

ISSUE NO.	DESCRIPTION	DATE
1	60% DESIGN PLANS	06/18/2019
2	80% DESIGN PLANS	07/01/2019
3	CITY/CARD COMMENTS	07/25/2019

CERTIFICATION:

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DATE: _____

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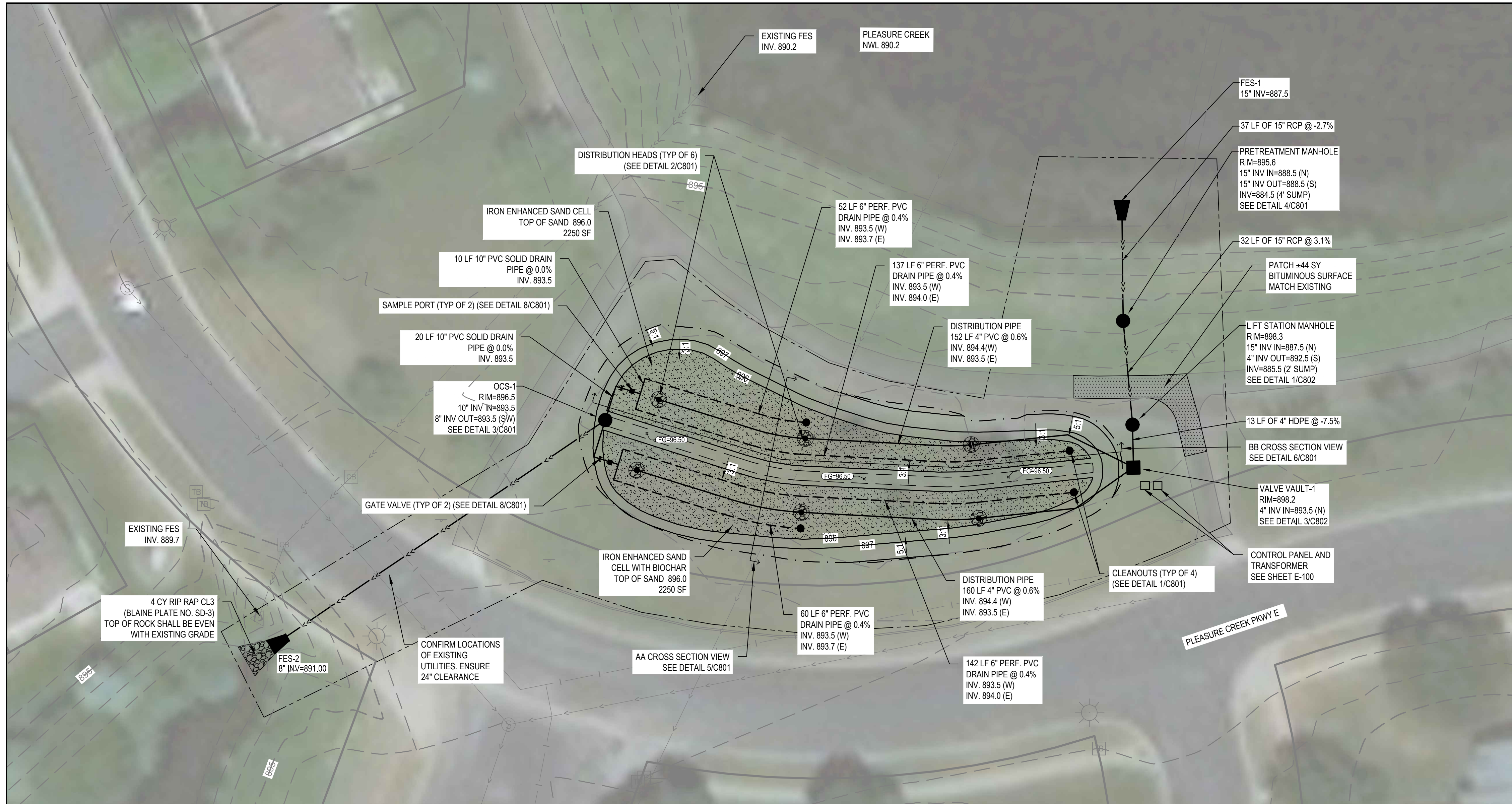
ISSUE DATE: 7/2019

ISSUE NO.: _____ ISSUE # _____

SHEET TITLE:
POST CONSTRUCTION EROSION CONTROL PLAN

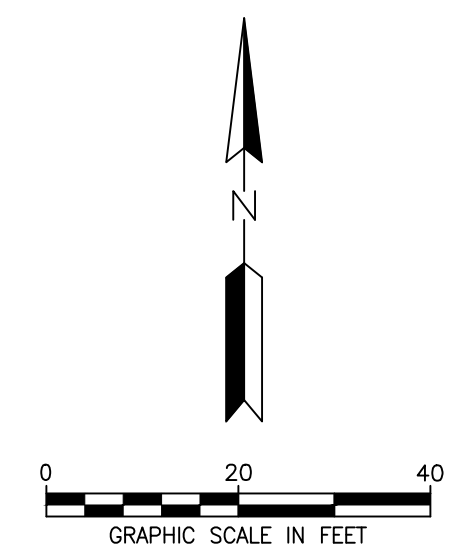
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C-301

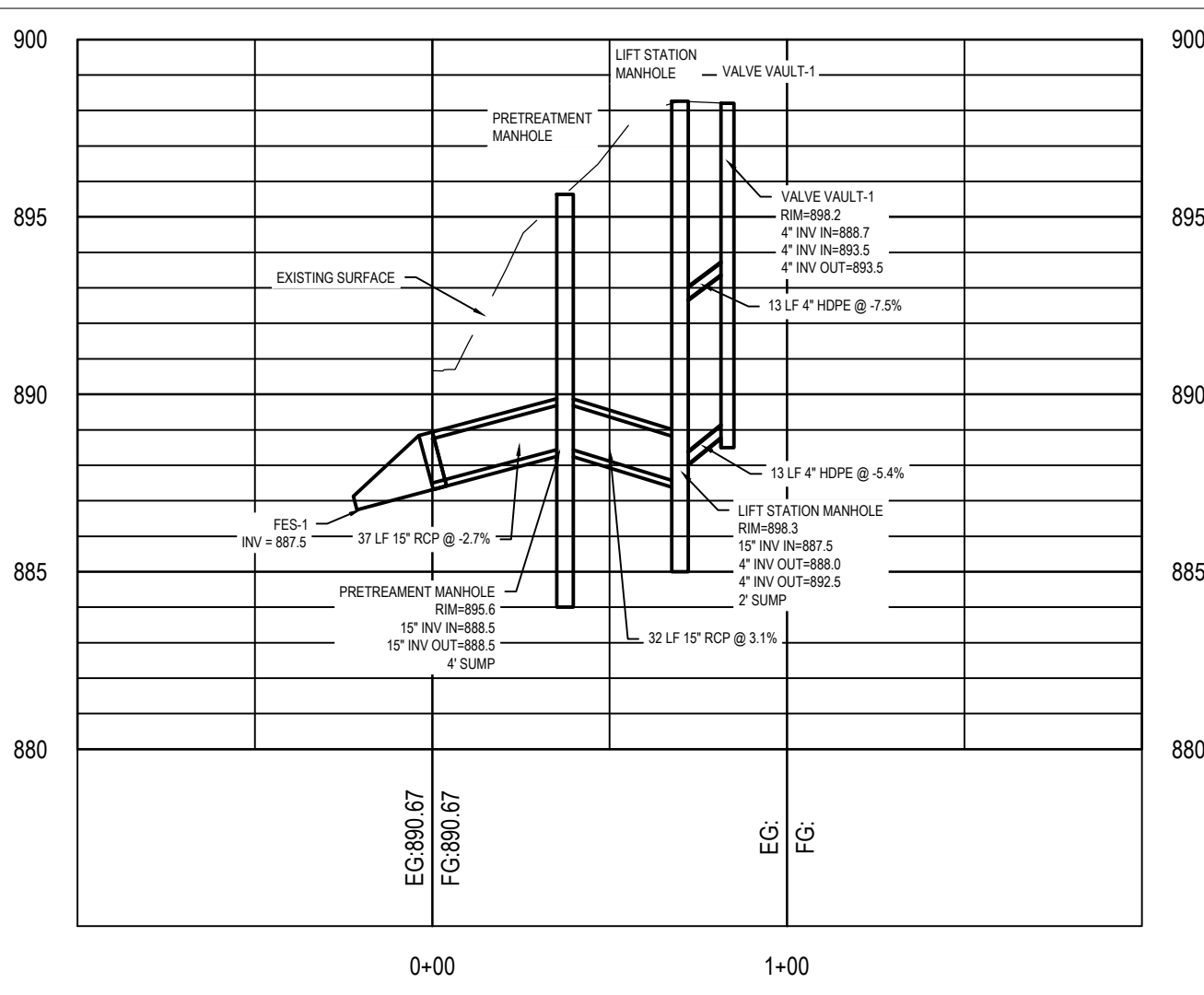
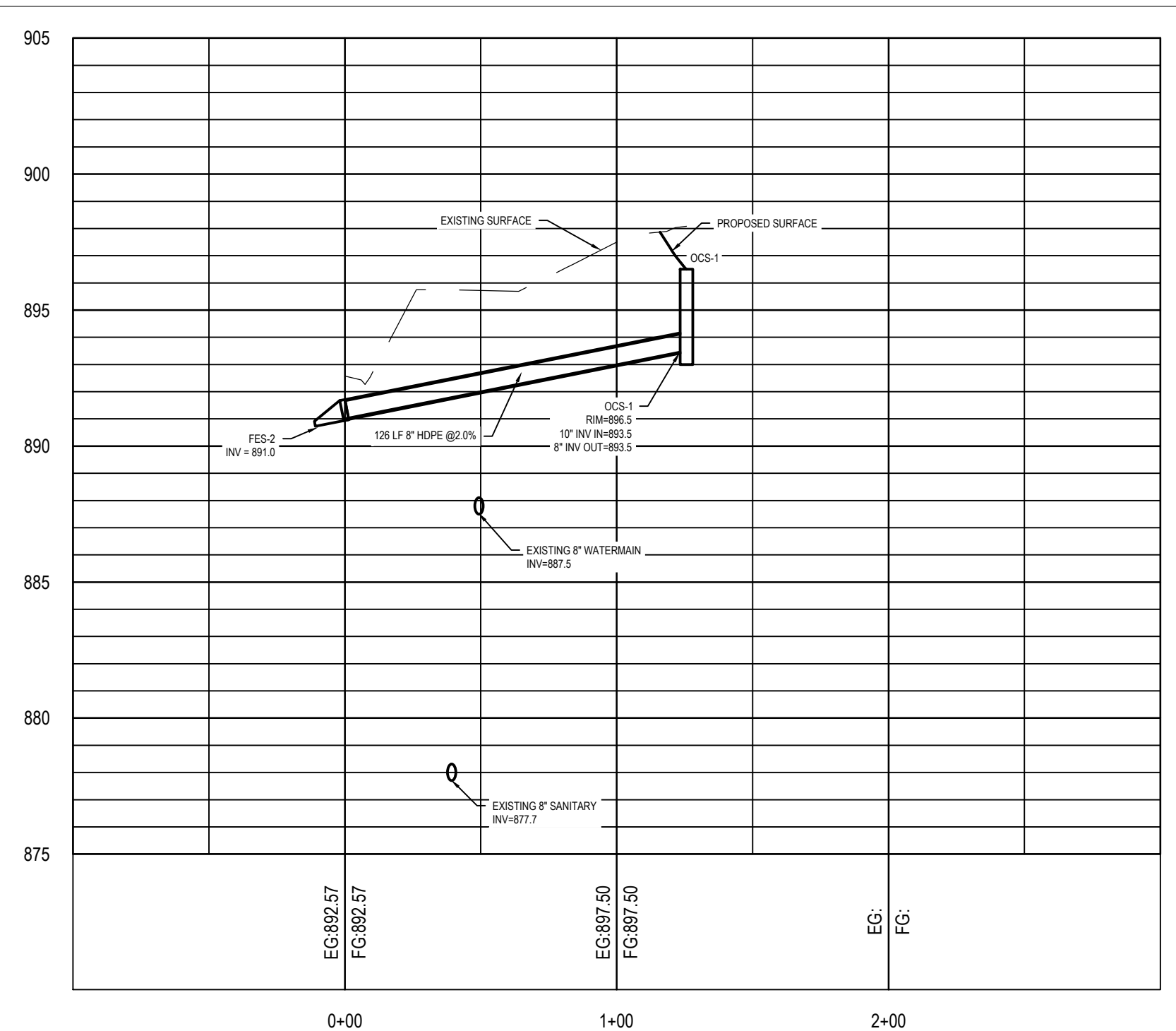


GRADING & UTILITY LEGEND

- 901 — EXISTING MINOR CONTOUR
- 900 — EXISTING MAJOR CONTOUR
- → → EXISTING STORM SEWER
- → → EXISTING SANITARY SEWER
- — — EXISTING WATERMAIN
- ⊙ EXISTING SANITARY MANHOLE
- ⊙ EXISTING STORM SEWER MANHOLE
- ⊙ EXISTING STORM SEWER INLET
- ⊙ EXISTING STORM SEWER INLET
- △ EXISTING FLARED END SECTION
- ⊙ EXISTING HYDRANT
- 901 — PROPOSED MINOR CONTOUR
- 900 — PROPOSED MAJOR CONTOUR
- - - GRADING LIMITS
- - - CONSTRUCTION LIMITS
- EG-XXX.XX FINISHED GRADE ELEVATION
- 1.00% SURFACE GRADE & FLOW DIRECTION
- → → STORM SEWER
- - - DRAINTILE
- STORM MANHOLE
- STORM CATCH BASIN
- △ FLARED END SECTION
- CLEANOUT
- ⊙ GATE VALVE
- ⊙ RIPRAP
- ▨ BITUMINOUS PAVEMENT



STORM SEWER PROFILE VIEW



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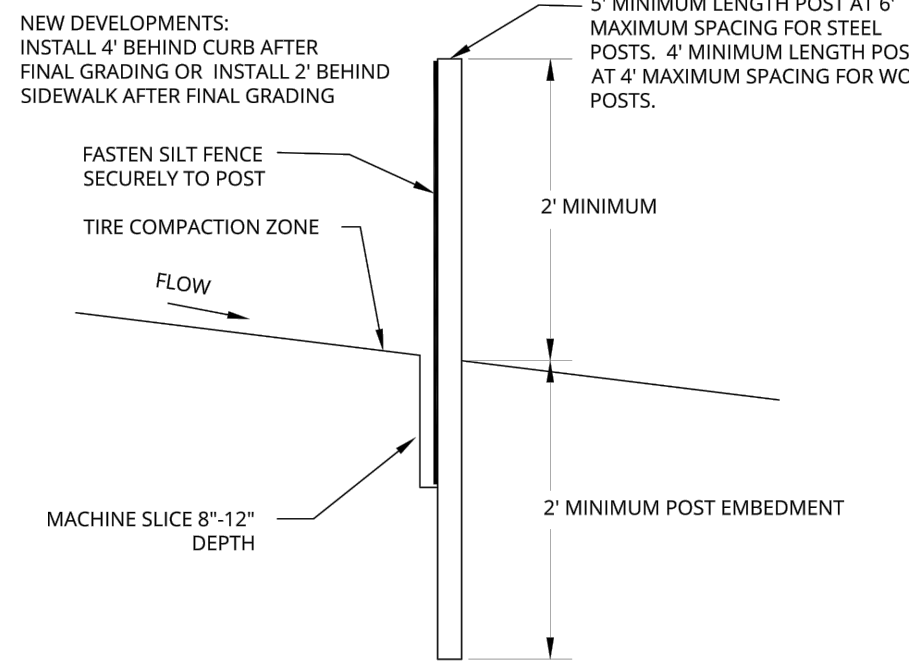
ISSUE DATE: 7/2019

ISSUE NO.: _____ ISSUE # _____

SHEET TITLE:
GRADING AND UTILITY PLAN

SHEET NO.: **C-400**

- USE PROPER EQUIPMENT SUCH THAT THE SOIL IS SLICED, NOT TURNED OVER.
- GEOTEXTILE FABRIC EMBEDDED 8" TO 12" IN THE SOIL SLIT, LEAVING ABOUT 2' OF FABRIC ABOVE GROUND.
- COMPACT THE SOIL IMMEDIATELY NEXT TO THE GEOTEXTILE BY DRIVING OVER IT WITH A TRACTOR TIRE AT LEAST TWICE.
- STEEL T-POSTS PLACED ON DOWNSTREAM SIDE OF WATER FLOW EMBEDDED AT LEAST 2' INTO THE GROUND. MAXIMUM SPACING 6'. NIPPLES ON POST FACE AWAY FROM THE GEOTEXTILE TO KEEP TIES FROM SLIPPING ON POST.
- FOR STEEL POSTS USE 3 PLASTIC ZIP TIES (50 LB TENSILE) AT LEAST 1' APART TO SECURE THE GEOTEXTILE TO EACH POST WITHIN THE TOP 8".
- FENCE SHALL BE HEAVY DUTY TYPE.
- RIFE WOOD LATHE AND STAPLES ON FACE OF SILT FENCE TO SECURE TO WOOD POSTS.
- CONTRACTOR SHALL REMOVE FENCE AND POSTS PER SPECIFICATIONS.



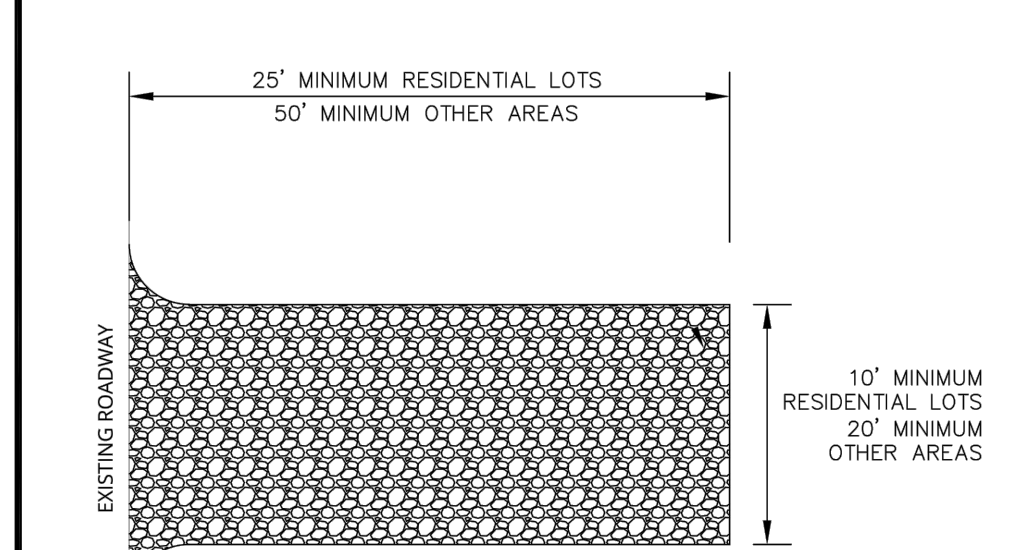
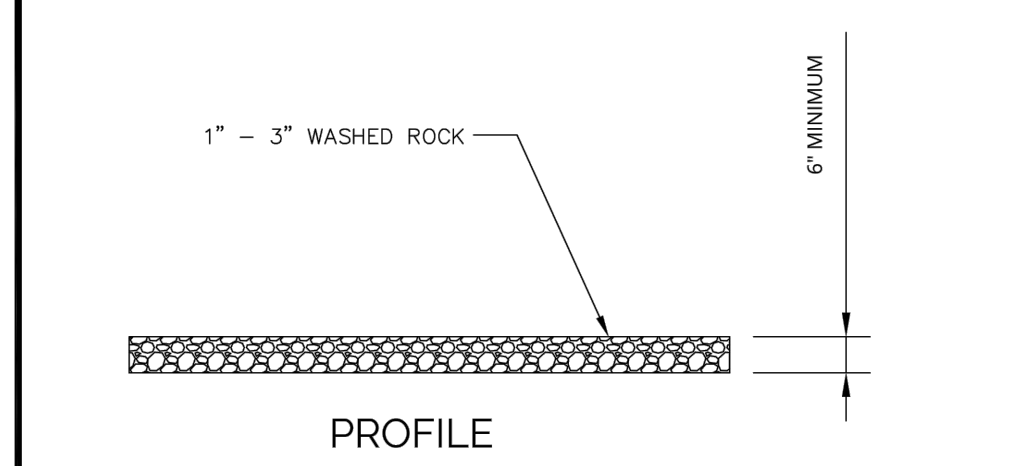
SILT FENCE MATERIALS SHALL MEET MNDOT SPECIFICATION 3886
CONTRACTOR SHALL REMOVE FENCE AND POSTS PER SPECIFICATIONS.

MACHINE SLICED SILT FENCE

Plate No. EC-1

2019 STANDARD DETAIL PLATE

City of Blaine - Engineering Department
10801 Town Square Drive NE, Blaine, Minnesota 55449 (763)785-6172 Fax(763)785-6139

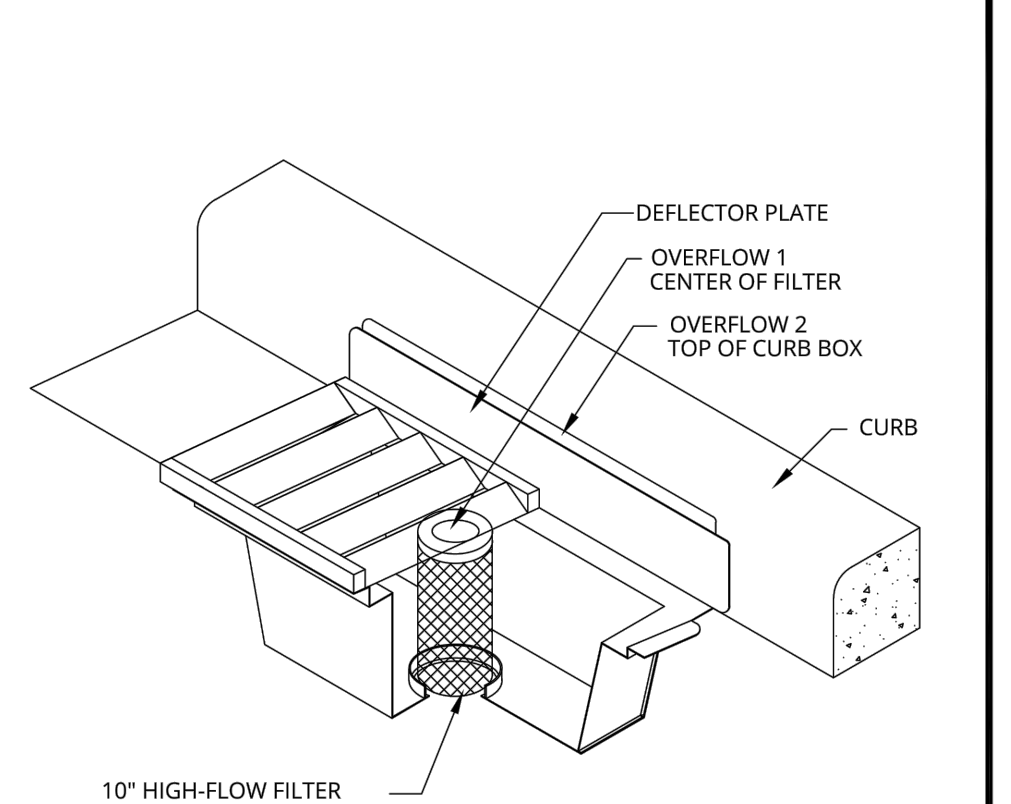


ROCK CONSTRUCTION ENTRANCE

Plate No. EC-3

2019 STANDARD DETAIL PLATE

City of Blaine - Engineering Department
10801 Town Square Drive NE, Blaine, Minnesota 55449 (763)785-6172 Fax(763)785-6139



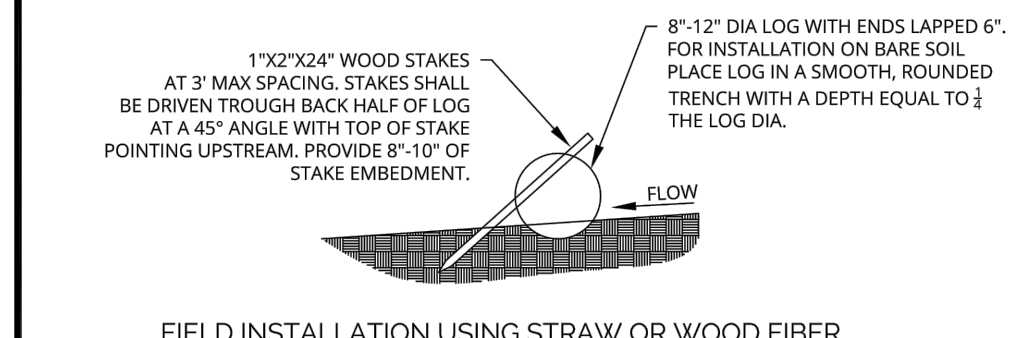
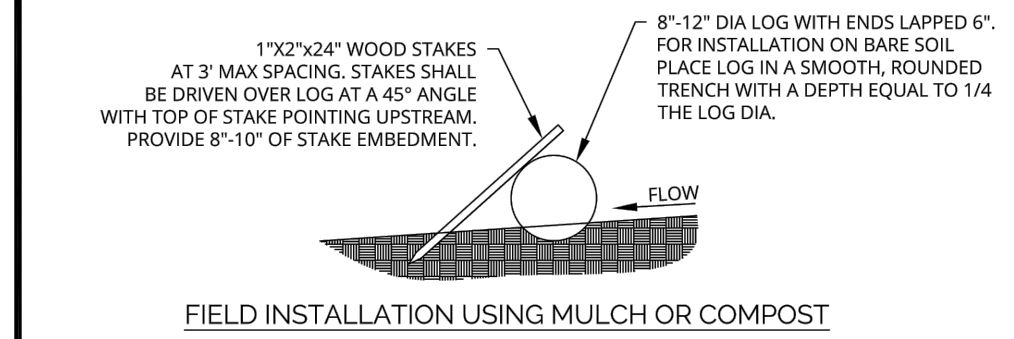
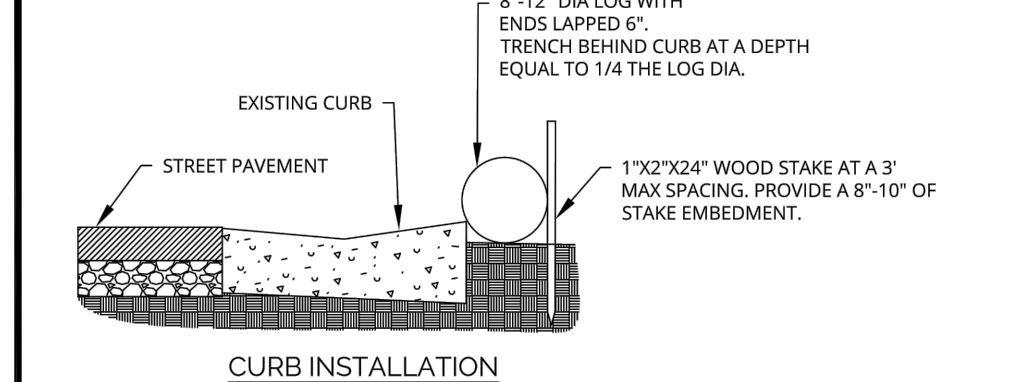
- NOTES:
- WIMCO CG MODEL OR APPROVED EQUAL TO MATCH CASTING
 - SILT FENCE/FABRIC NOT ALLOWED TO BE USED AS INLET PROTECTION

INLET PROTECTION FOR CURB AND GUTTER

Plate No. EC-4

2019 STANDARD DETAIL PLATE

City of Blaine - Engineering Department
10801 Town Square Drive NE, Blaine, Minnesota 55449 (763)785-6172 Fax(763)785-6139

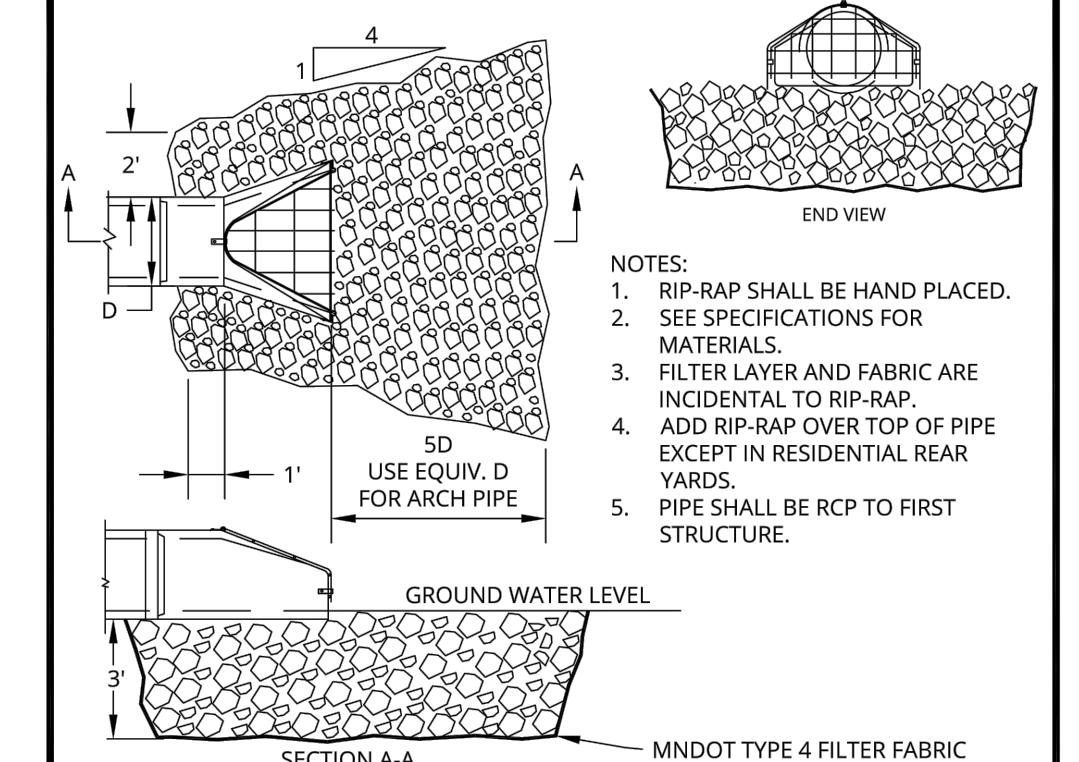


SEDIMENT CONTROL LOG INSTALLATION

Plate No. EC-8

2019 STANDARD DETAIL PLATE

City of Blaine - Community Standards
10801 Town Square Drive NE, Blaine, Minnesota 55449 (763)785-6172 Fax(763)785-6139



PIPE DIA.	RIP-RAP QUANTITIES (C.Y.)				
	RIP-RAP	PIPE DIA.	RIP-RAP	PIPE DIA.	RIP-RAP
12"	6	24"	14	42"	35
15"	8	27"	17	48"	43
18"	9	30"	21	54"	50
21"	12	36"	28	60"	58

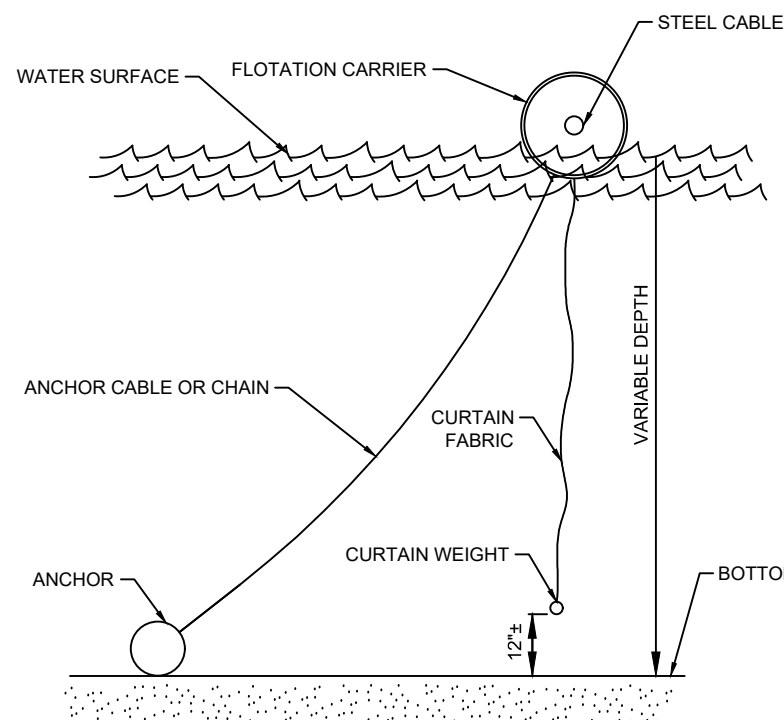
- HEAVY DUTY TRASH GUARD REQUIRED ON:**
- UPSTREAM APRONS
 - DOWNSTREAM APRONS 27" OR LARGER IN MAINTAINED RESIDENTIAL AREAS
 - NO TRASH GUARD ON DITCH CROSSINGS UNLESS OTHERWISE DIRECTED

RIP-RAP FOR OUTLET TO WET DITCH OR BASIN

Plate No. SD-3

2019 STANDARD DETAIL PLATE

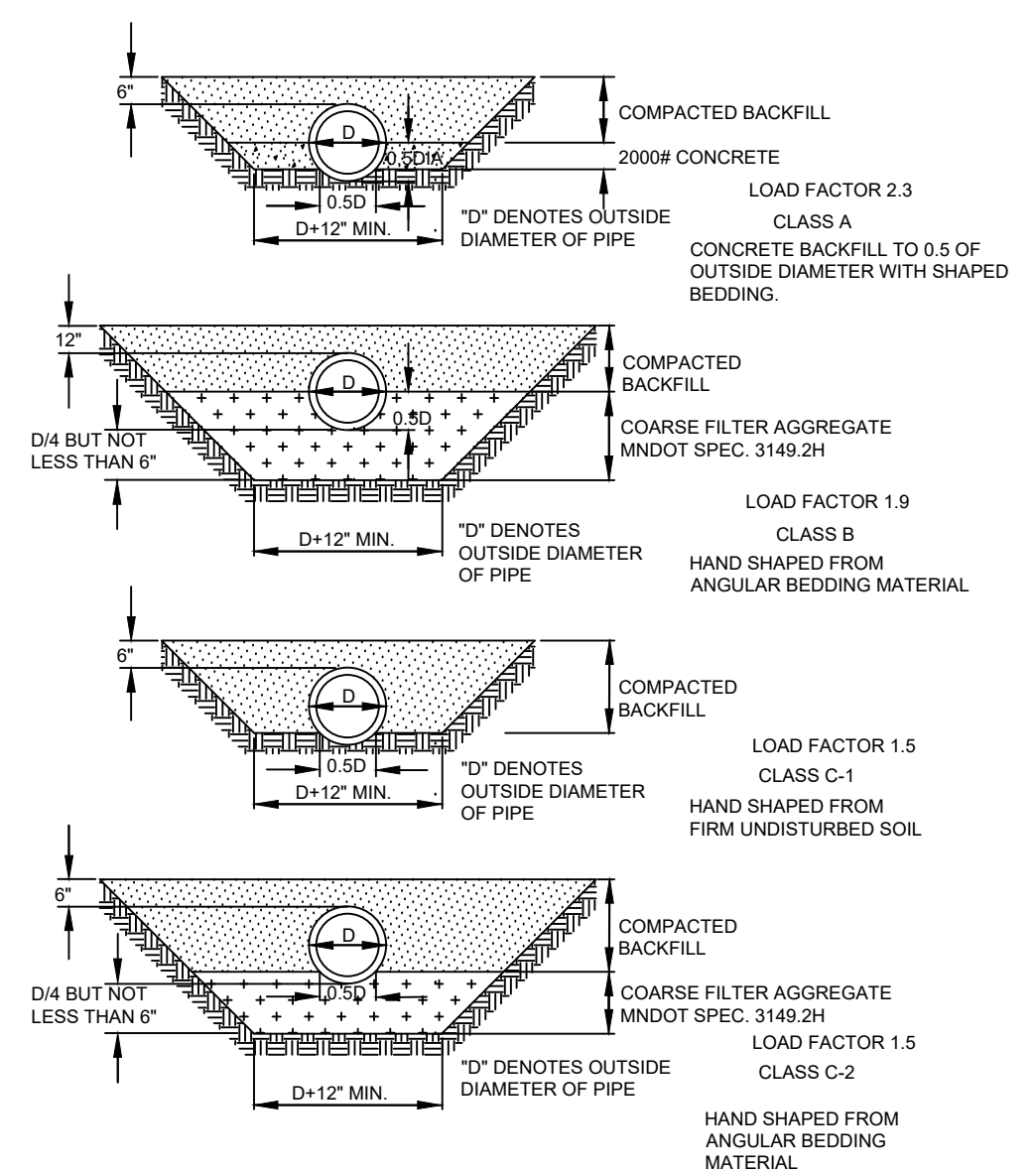
City of Blaine - Engineering Department
10801 Town Square Drive NE, Blaine, Minnesota 55449 (763)785-6172 Fax(763)785-6139



NOTE: CURTAIN LENGTH TO MATCH BOTTOM PROFILE AS CLOSELY AS POSSIBLE. MAXIMUM INTERVAL FOR SPACING OF WEIGHT IS 15'.

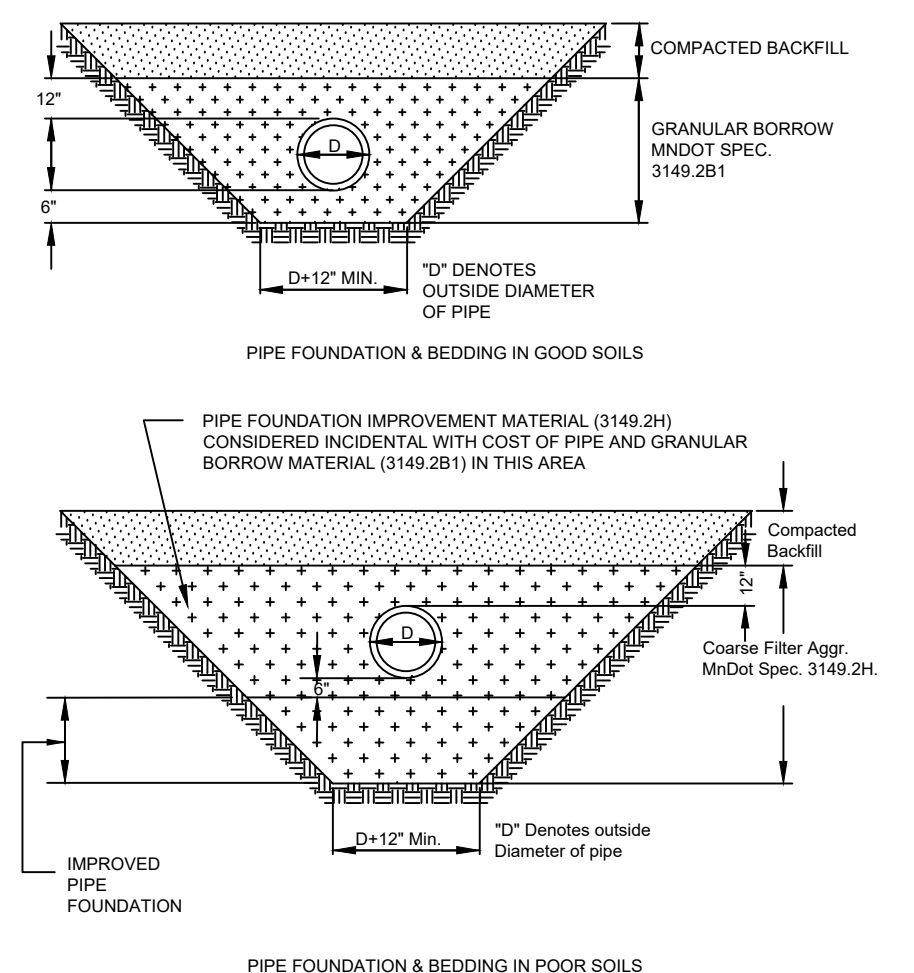
1 FLOATING SILT CURTAIN

C800



2 BEDDING METHODS FOR RCP, CMP & DIP

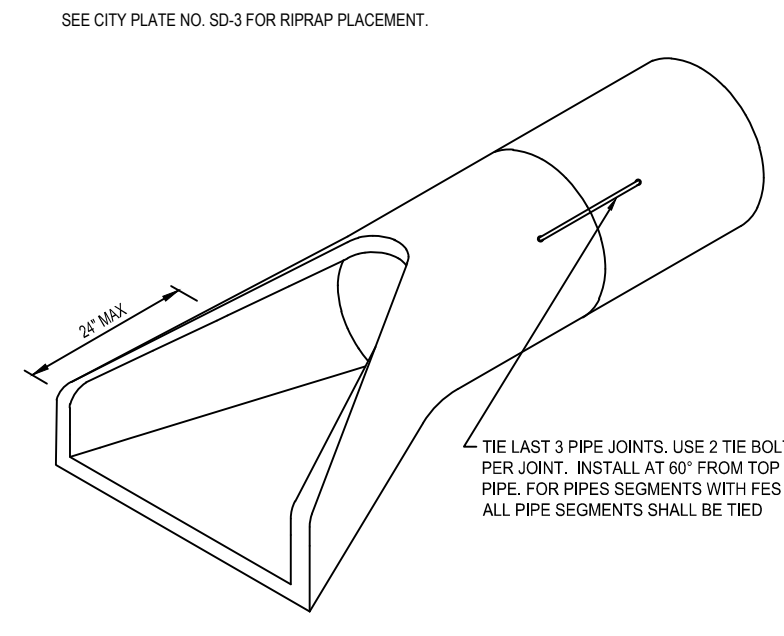
C800



- NOTE:
1. ALL SDR-35 PVC SHALL BE USED TO A DEPTH NOT TO EXCEED 16'. SDR-26 PVC SHALL BE USED FOR DEPTHS GREATER THAN 16'. C-900 PVC SHALL BE USED FOR DEPTHS GREATER THAN 37'.

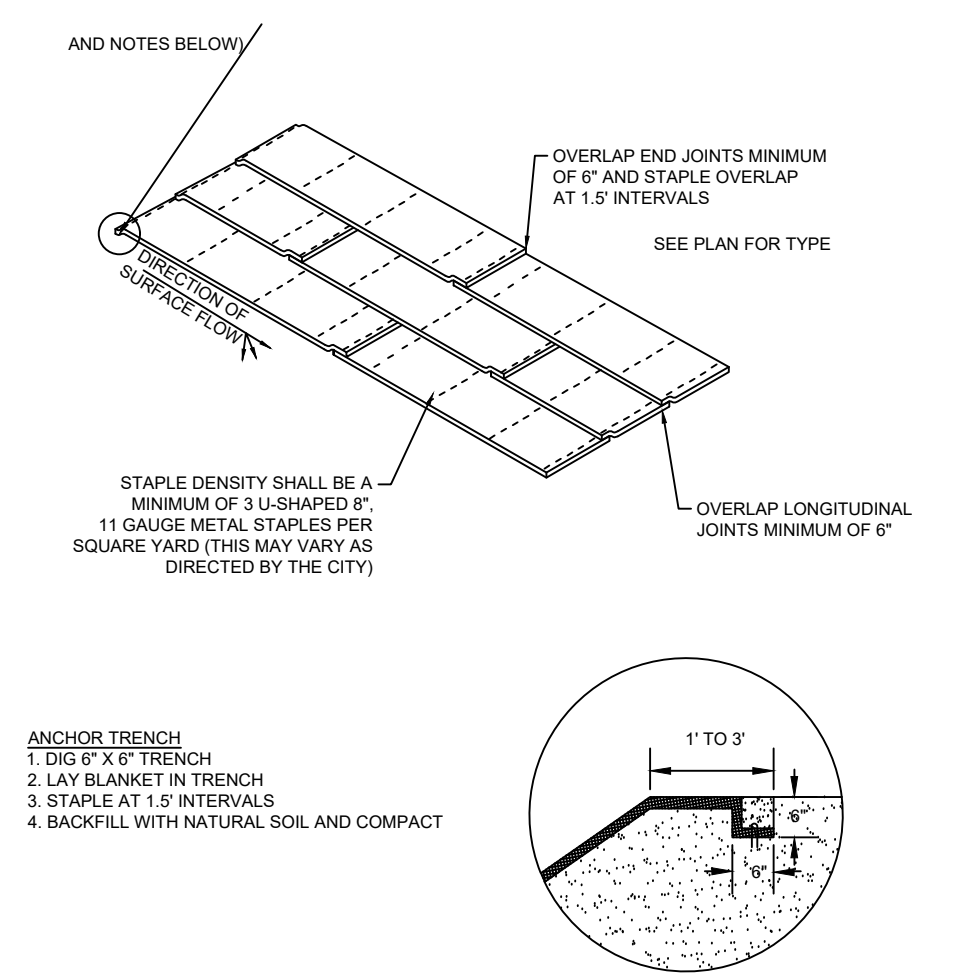
3 BEDDING METHODS FOR PVC

C800



4 FLARED END SECTION

C800



5 EROSION CONTROL BLANKET INSTALLATION

C800

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SUITE 300
GOLDEN VALLEY, MN 55427
PHONE: 763-252-6800
FAX: 952-831-1268
WWW.WENCK.COM

CLIENT:

13632 VANBUREN STREET NE
HAM LAKE, MN 55304
PHONE: 763-755-0975
WWW.COONCREEKWD.ORG

PLEASURE CREEK BIOCHAR-AND-IRON-ENHANCED SAND FILTER

BLAINE ANOKA COUNTY, MN

PROJECT TITLE:

ISSUE NO.	DESCRIPTION	DATE
1	80% DESIGN PLANS	06/18/2019
2	80% DESIGN PLANS	07/01/2019
3	CITY/CARD COMMENTS	07/23/2019

CERTIFICATION:

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

LICENSE NO.: _____

DATE: _____

PROJECT NO.: 1239-0100-04

DWN BY: BJS CHKD BY: ERM APPD BY: EAM

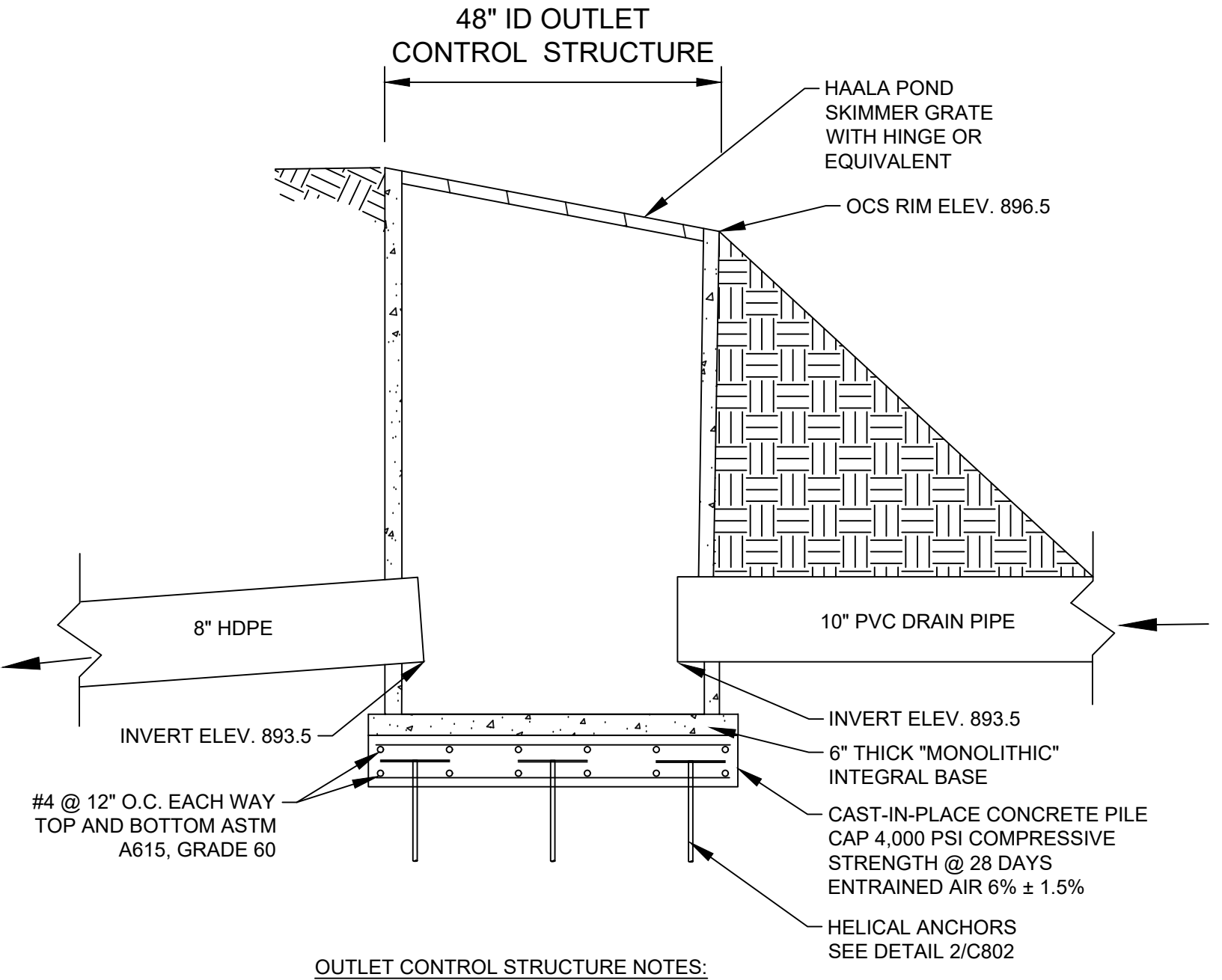
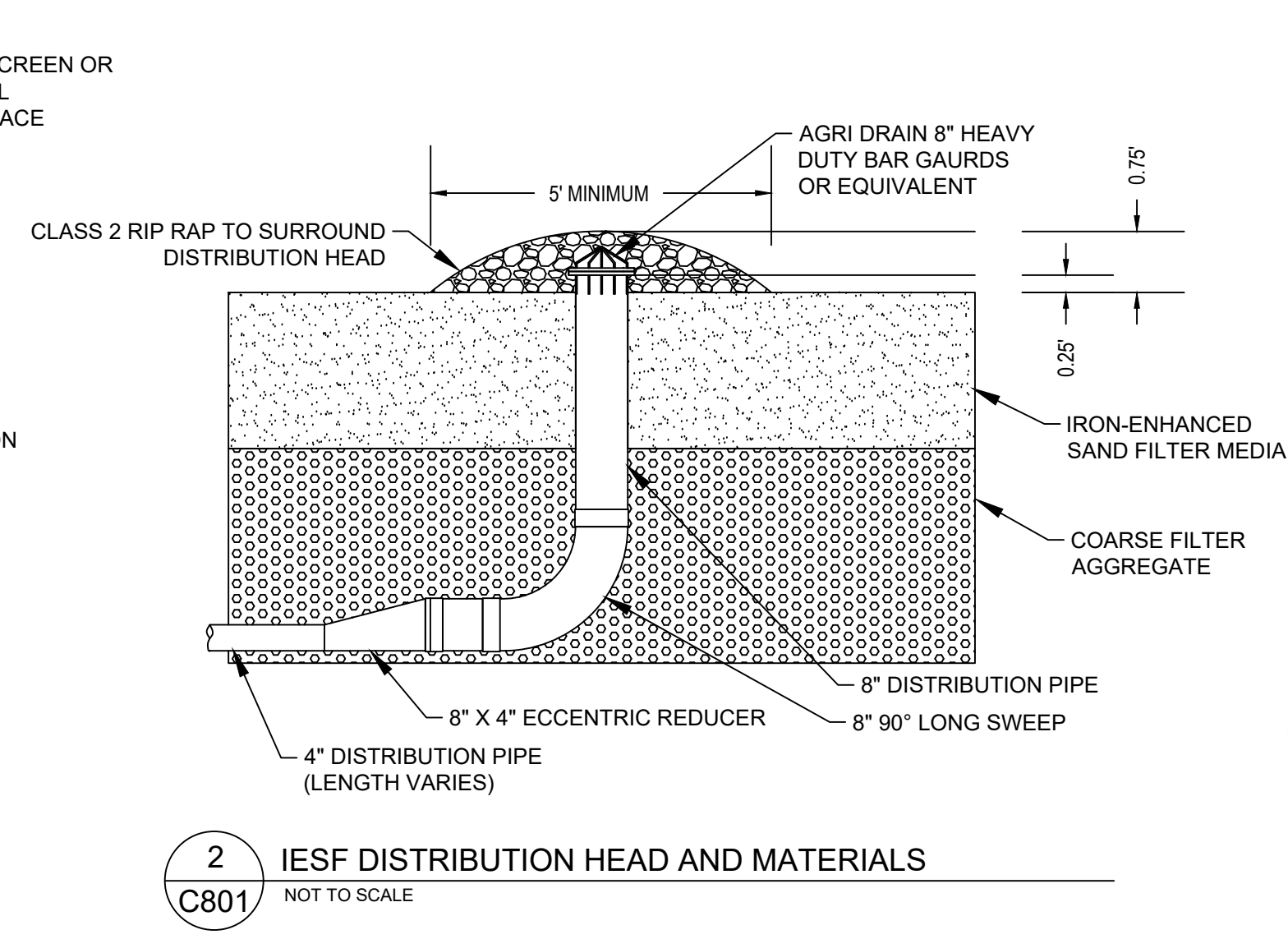
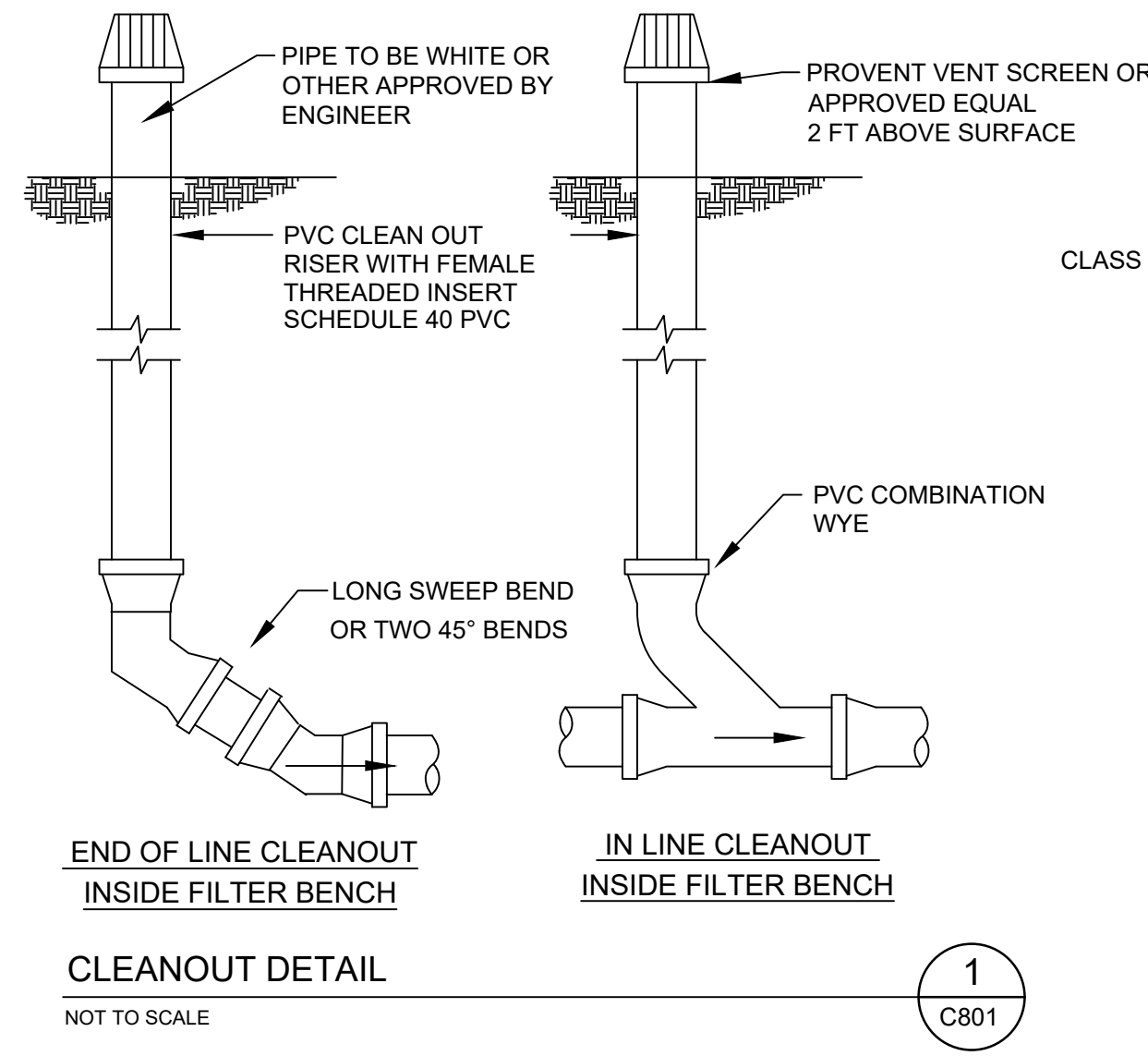
ISSUE DATE: 7/2019

ISSUE NO.: _____ ISSUE # _____

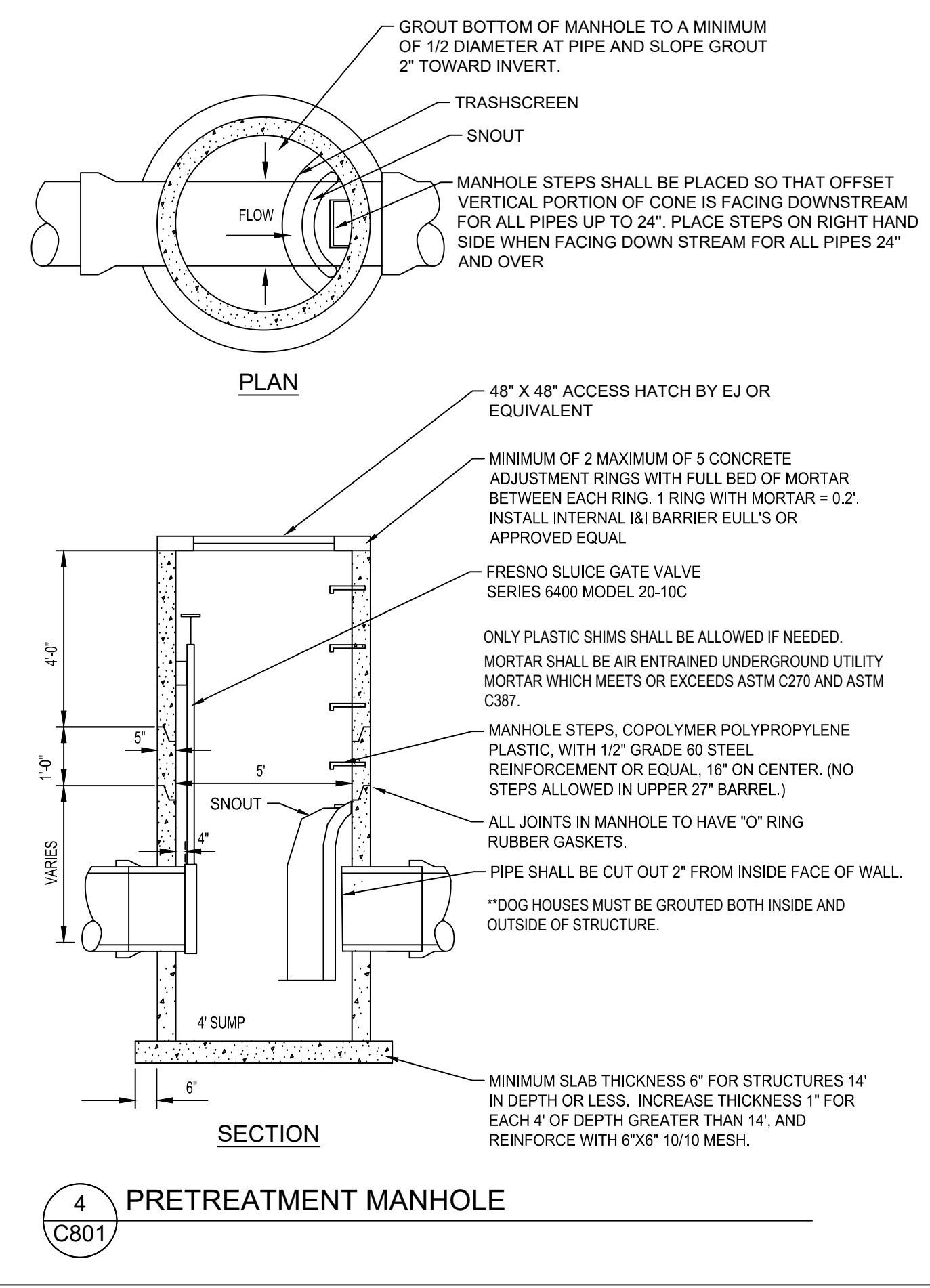
SHEET TITLE: DETAILS

SHEET NO.: C-800

7/20/2019 2:46:48 PM



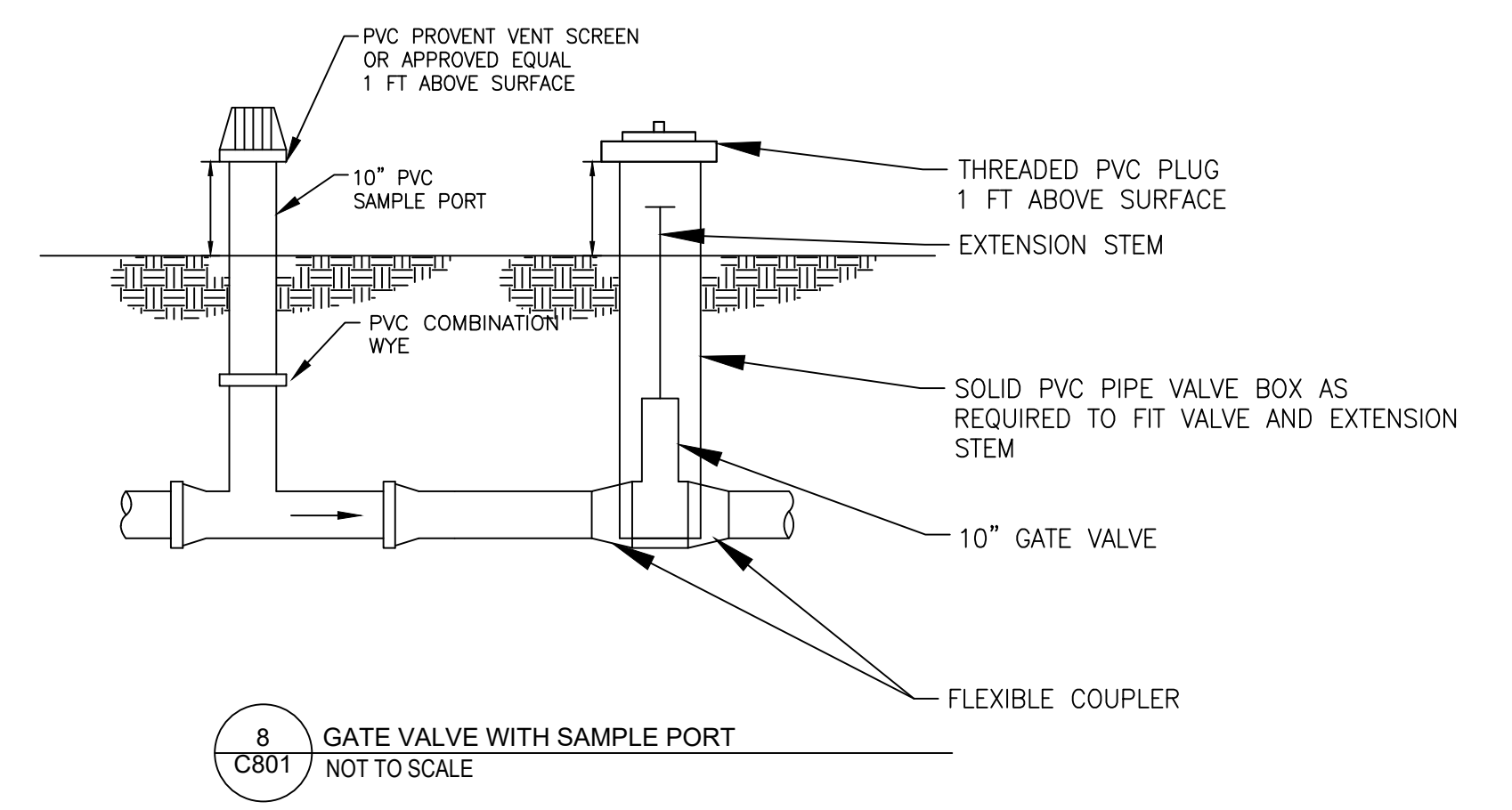
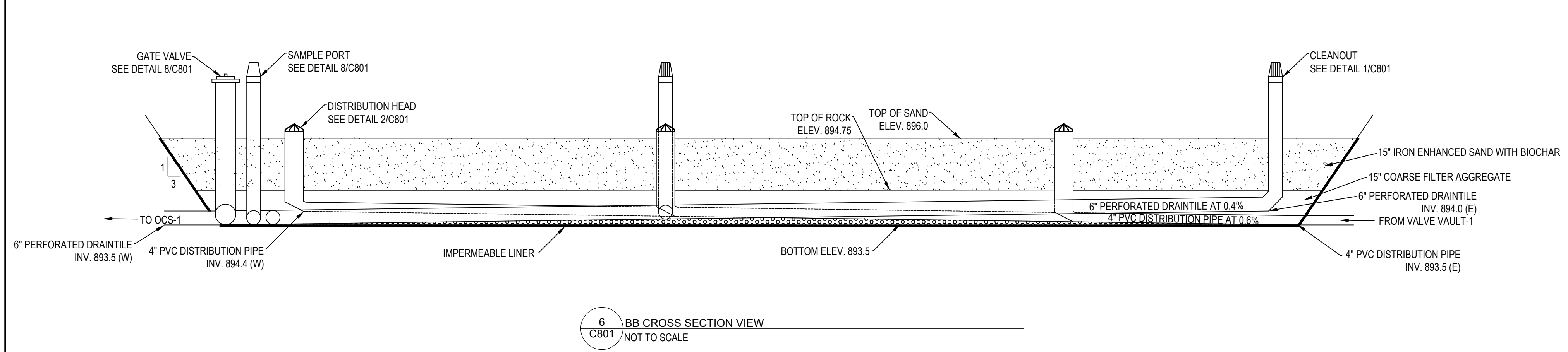
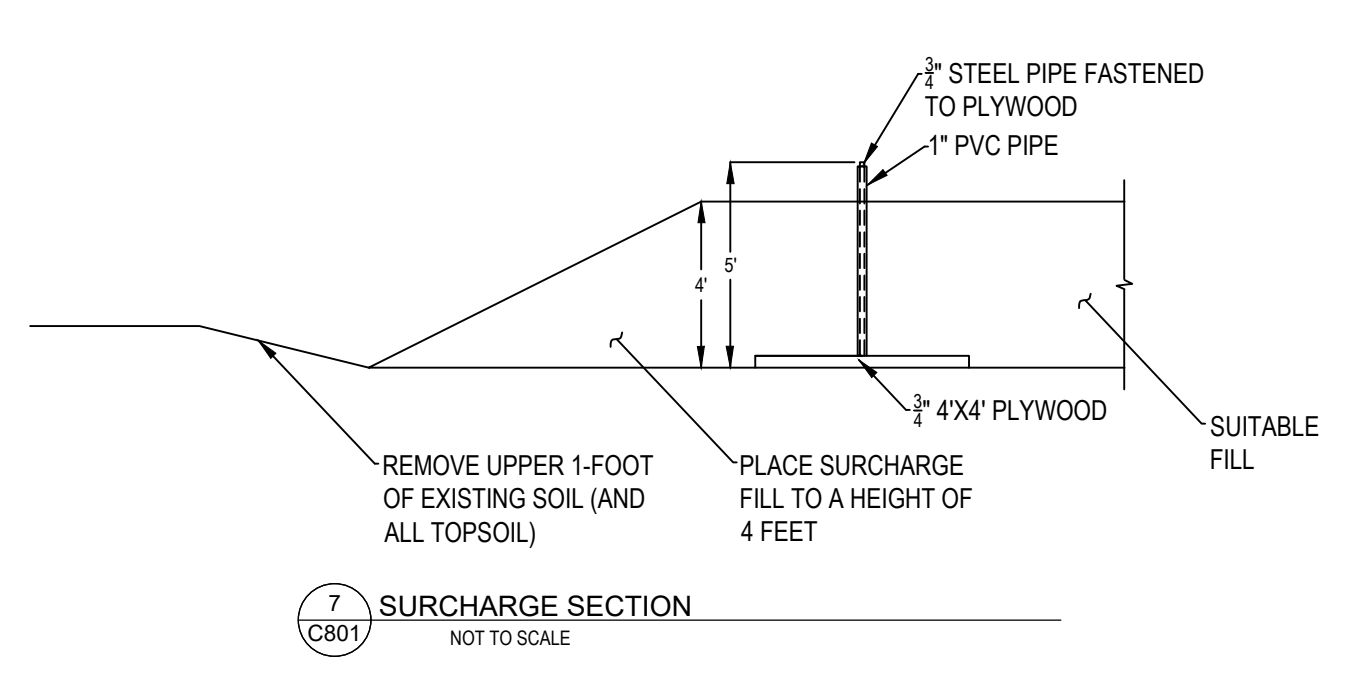
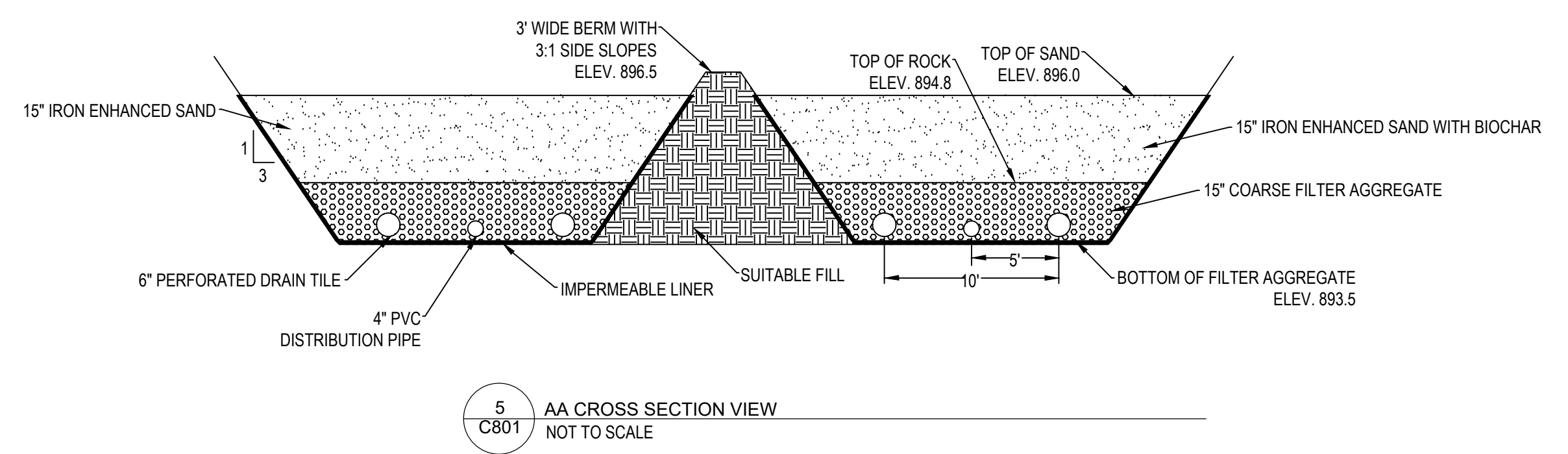
- OUTLET CONTROL STRUCTURE NOTES:**
1. OVER-EXCAVATE APPROXIMATELY 1 FOOT BELOW BASE ELEVATION AND OVERSIZE DIAMETER 2 FEET
 2. DEWATER AS NECESSARY TO KEEP EXCAVATION DRY
 3. SCARIFY AND RECOMPACT NATIVE SAND MATERIAL TO MINIMUM 98% STANDARD PROCTOR DRY DENSITY
 4. INSTALL STRUCTURE ON AGGREGATE BASE
 5. BACKFILL WITH NON-ORGANIC SANDY SOIL FROM ONSITE STOCKPILE, COMPACT TO MINIMUM 95% STANDARD PROCTOR DRY DENSITY



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CLIENT:
Coon Creek Watershed District
13632 VANBUREN STREET NE HAM LAKE, MN 55304
PHONE: 763-755-0975 WWW.COONCREEKWD.ORG

PROJECT TITLE:
PLEASURE CREEK BIOCHAR-AND-IRON-ENHANCED SAND FILTER
BLAINE ANOKA COUNTY, MN

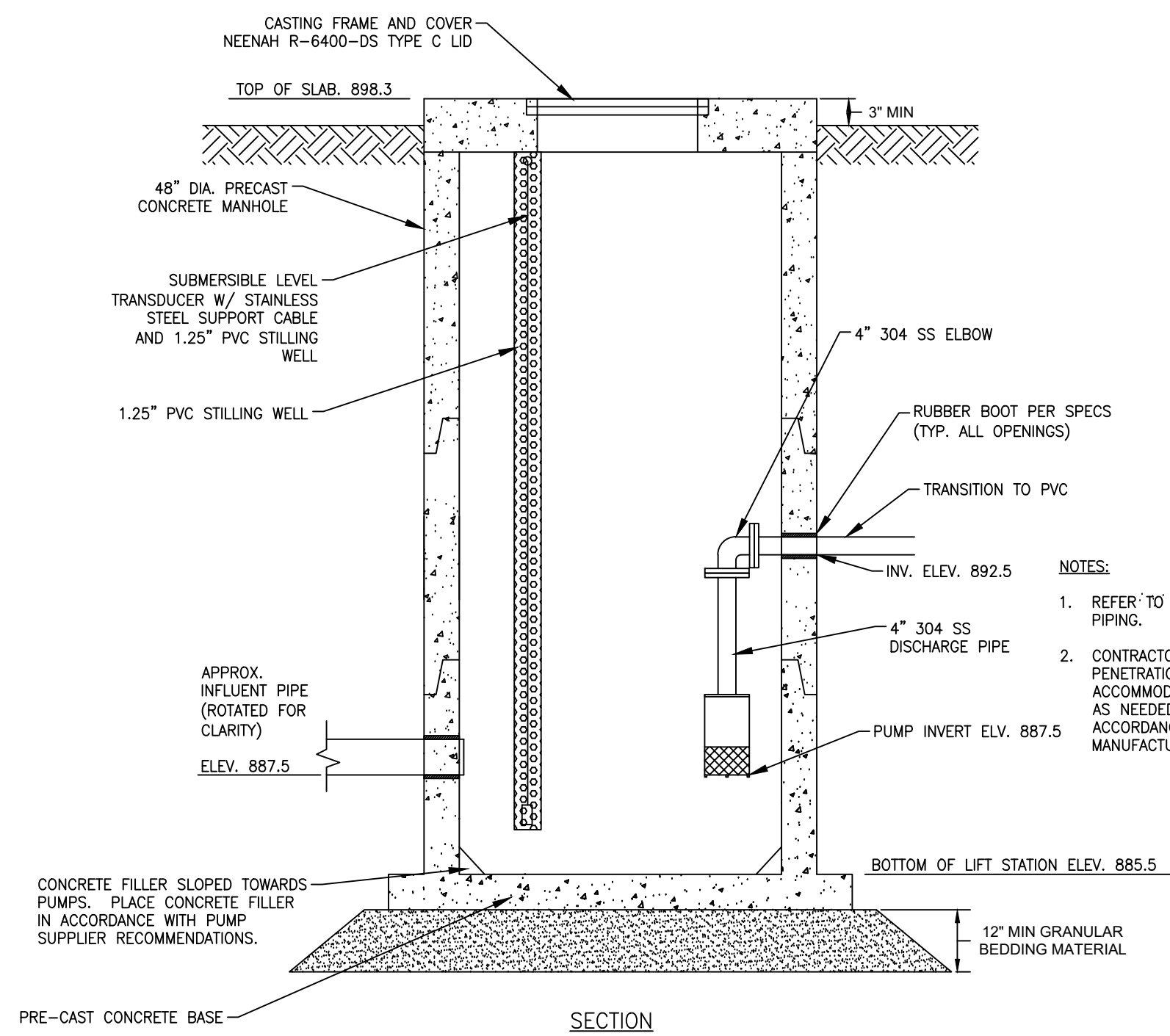


DATE	ISSUE NO.	DESCRIPTION
06/18/2019	1	60% DESIGN PLANS
07/01/2019	2	80% DESIGN PLANS
07/23/2019	3	CITY/CARD COMMENTS

CERTIFICATION:
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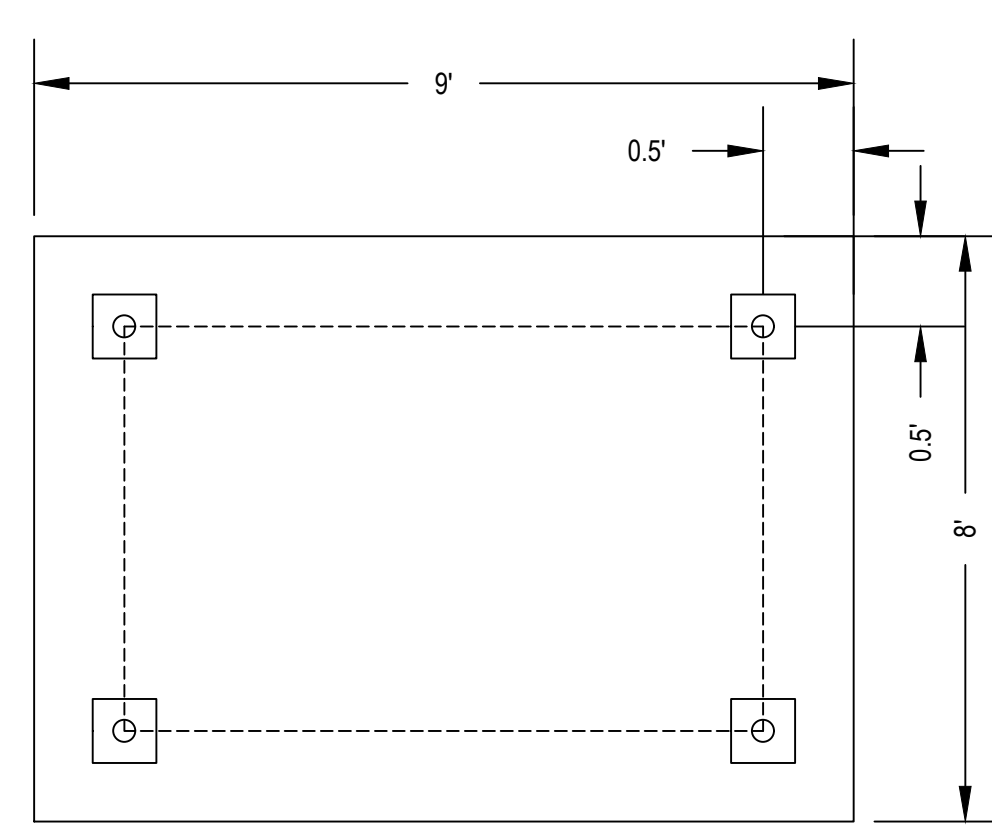
LICENSE NO.:
DATE:
PROJECT NO.: 1239-0100-04
DWN BY: BJS CHKD BY: ERM APP'D BY: EAM
ISSUE DATE: 7/2019
ISSUE NO.: ISSUE #
SHEET TITLE: DETAILS
SHEET NO.: C-801

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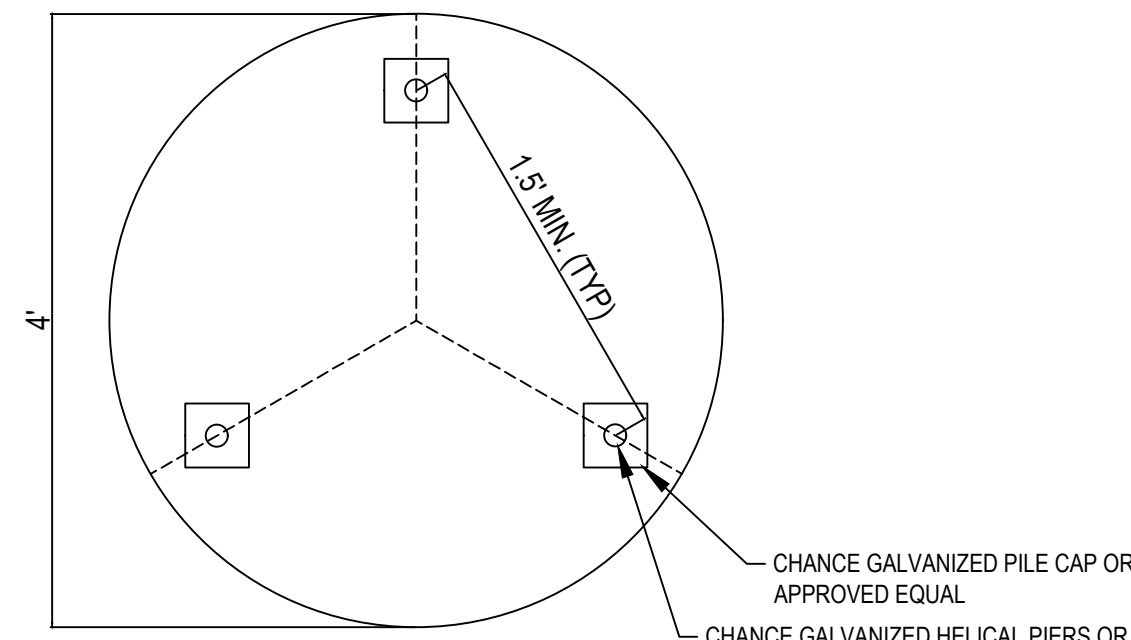


1 LIFT STATION DETAIL
C802 NOT TO SCALE

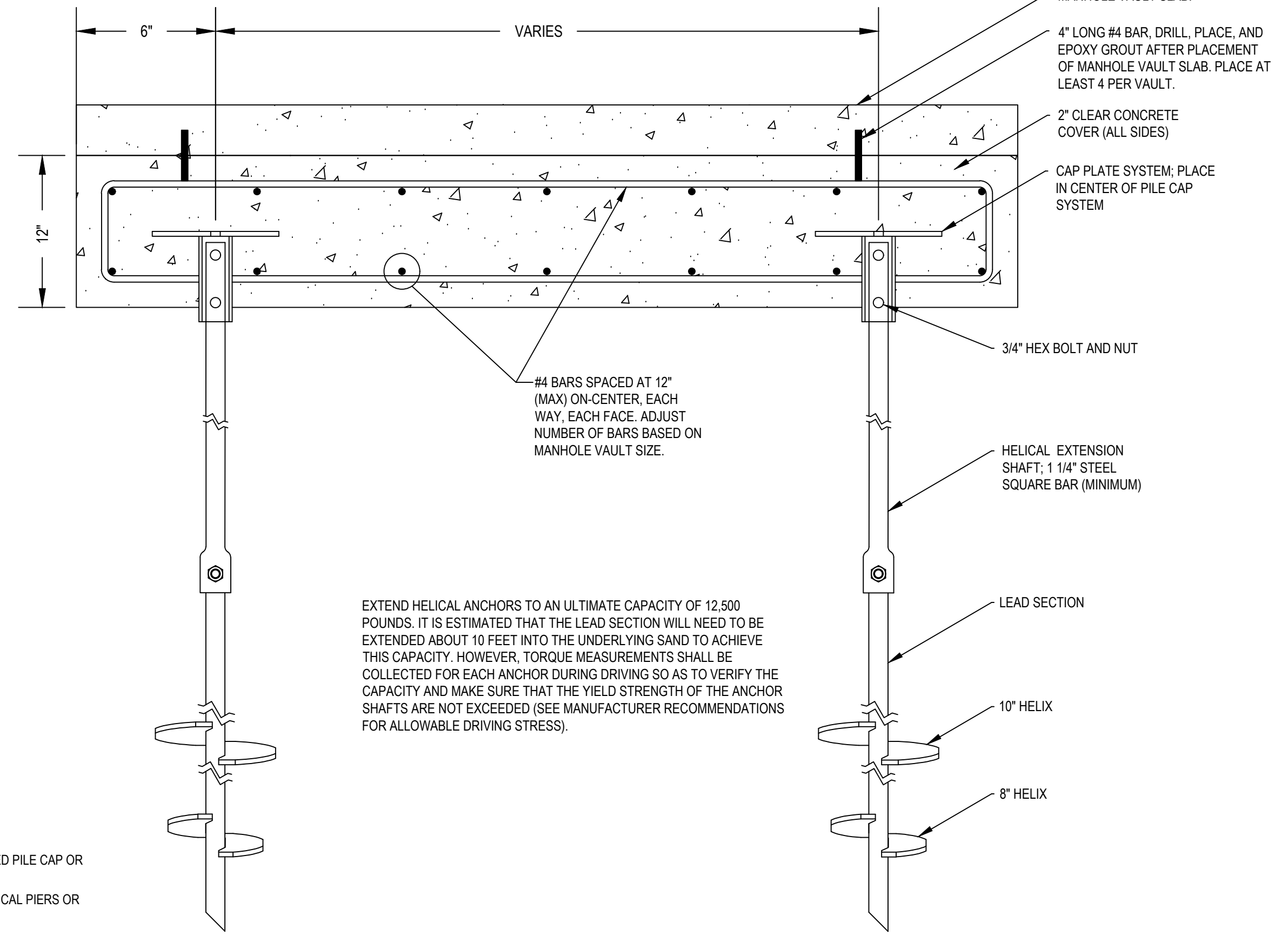
- NOTES:
1. REFER TO PLAN VIEW FOR TRUE ORIENTATION OF PIPING.
 2. CONTRACTOR IS RESPONSIBLE FOR MAKING PENETRATIONS THROUGH STRUCTURES TO ACCOMMODATE ELECTRICAL AND CONTROLS WIRING AS NEEDED. LOCATE AND SIZE PENETRATIONS IN ACCORDANCE WITH PUMP AND INSTRUMENT MANUFACTURER RECOMMENDATIONS



PILE CAP PLAN VIEW FOR VALVE VAULT-1

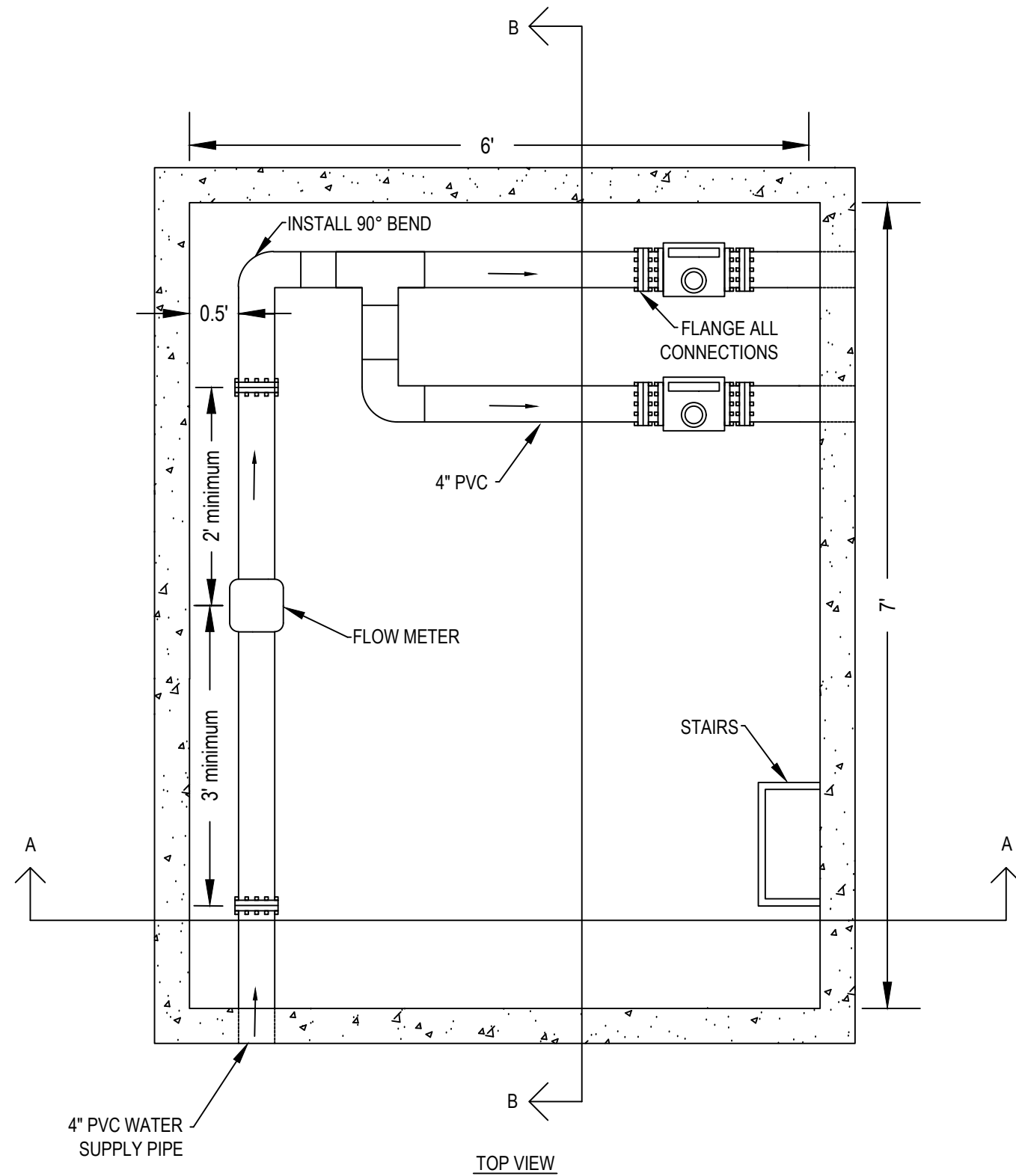


PILE CAP PLAN VIEW FOR OCS-1

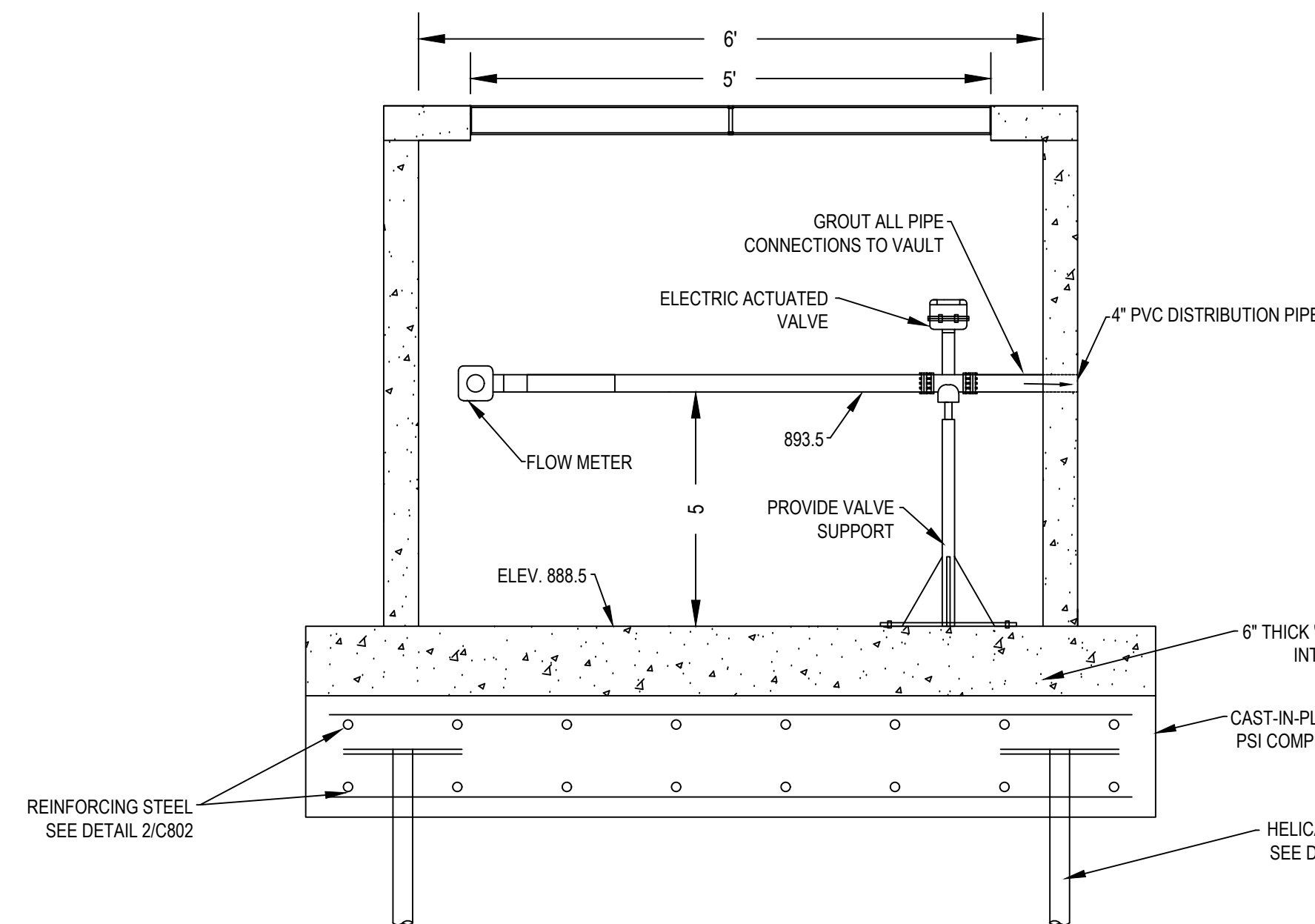


2 HELICAL ANCHOR
C802 NOT TO SCALE

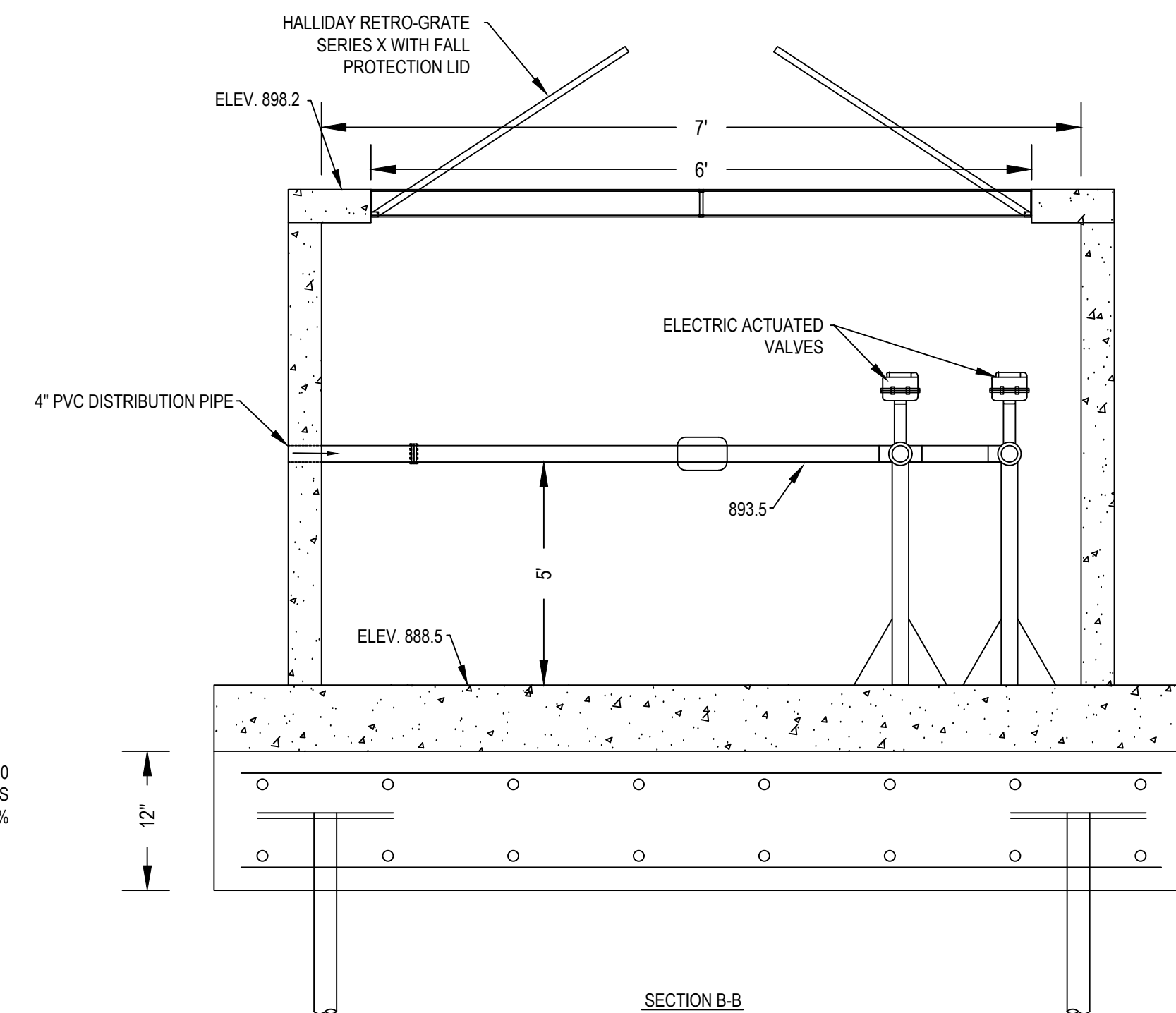
EXTEND HELICAL ANCHORS TO AN ULTIMATE CAPACITY OF 12,500 POUNDS. IT IS ESTIMATED THAT THE LEAD SECTION WILL NEED TO BE EXTENDED ABOUT 10 FEET INTO THE UNDERLYING SAND TO ACHIEVE THIS CAPACITY. HOWEVER, TORQUE MEASUREMENTS SHALL BE COLLECTED FOR EACH ANCHOR DURING DRIVING SO AS TO VERIFY THE CAPACITY AND MAKE SURE THAT THE YIELD STRENGTH OF THE ANCHOR SHAFTS ARE NOT EXCEEDED (SEE MANUFACTURER RECOMMENDATIONS FOR ALLOWABLE DRIVING STRESS).



3 VALVE VAULT-1
C802 NOT TO SCALE



SECTION A-A



SECTION B-B

ISSUE NO.	DATE	DESCRIPTION
1	06/18/2019	60% DESIGN PLANS
2	07/01/2019	80% DESIGN PLANS
3	07/23/2019	CITY/CARD COMMENTS

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LICENSE NO.:

DATE:

PROJECT NO.: 1239-0100-04

DWN BY: BJS CHKD BY: ERM APPD BY: EAM

ISSUE DATE: 7/2019

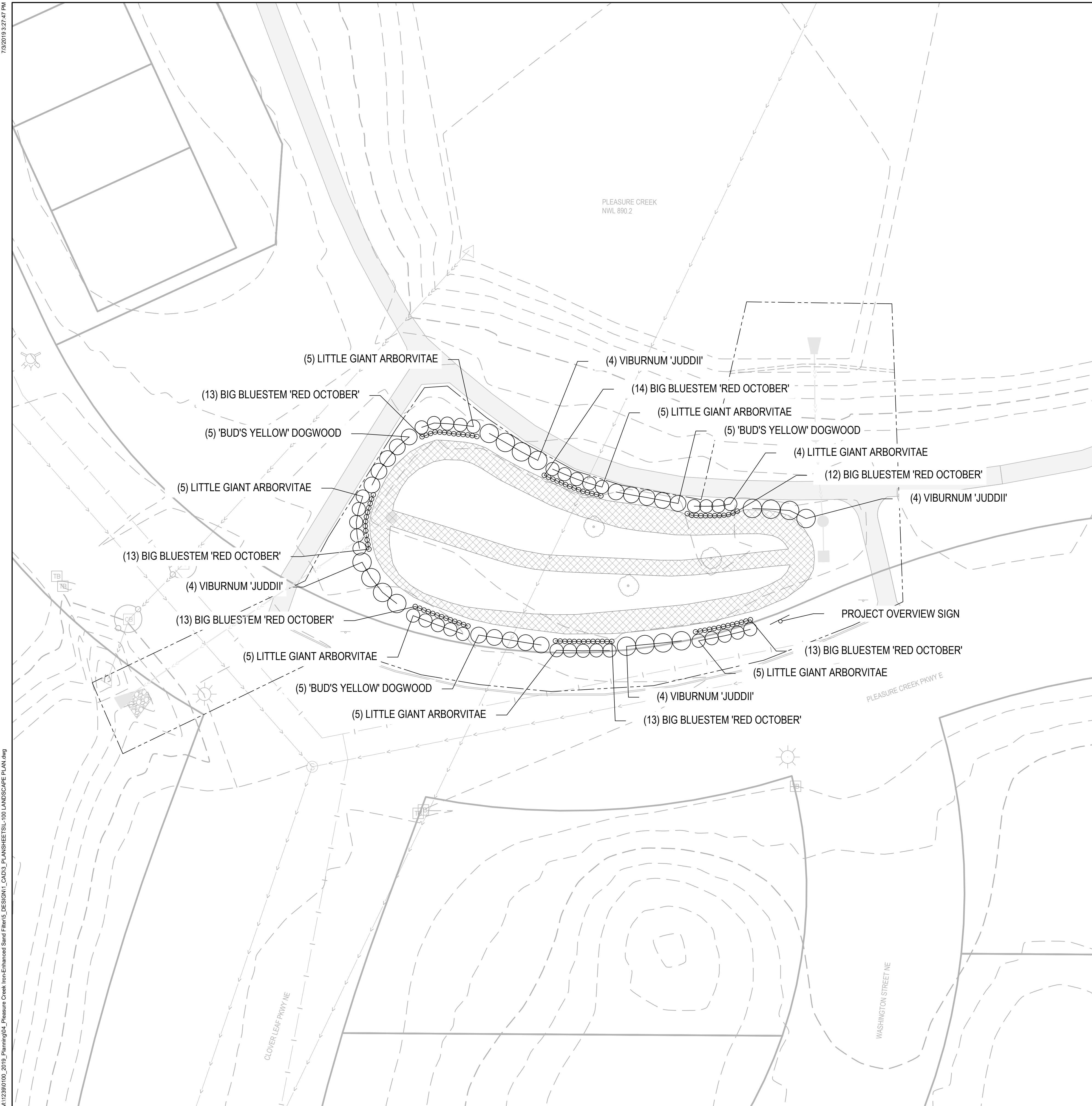
ISSUE NO.: ISSUE #

SHEET TITLE:

DETAILS

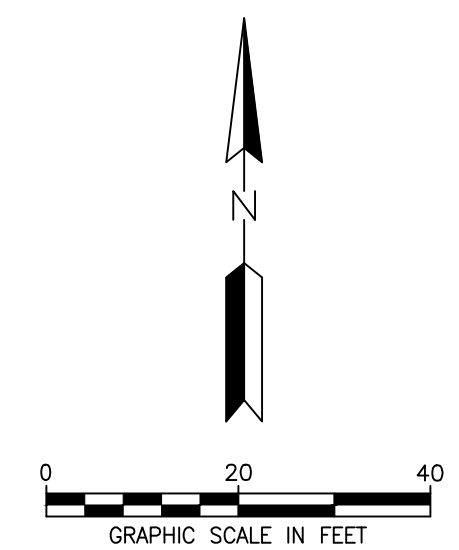
SHEET NO.:

7/20/2019 3:27:47 PM



LANDSCAPE LEGEND

- VIBURNUM JUDDII
- 'BUD'S YELLOW DOGWOOD'
- LITTLE GIANT ARBORVITAE
- BIG BLUESTEM 'RED OCTOBER'



PLANTING SCHEDULE						
TYPE	QTY	COMMON NAME	LATIN NAME	HEIGHT	WIDTH	SIZE
SHRUB	16	VIBURNUM JUDDII	VIBURNUM X JUDDII	8' TALL	10' WIDE	5 GAL.
	15	'BUD'S YELLOW' DOGWOOD	CORNUS ALBA 'BUD'S YELLOW	8' TALL	6' WIDE	5 GAL.
	34	LITTLE GIANT ARBORVITAE	THUJA OCCIDENTALIS 'LITTLE GIANT	6' TALL	6' WIDE	5 GAL.
GRASS	91	BIG BLUESTEM 'RED OCTOBER'	ANDROPOGON 'RED OCTOBER'	60" TALL	24" WIDE	1 GAL.

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GOLDEN VALLEY, MN 55427
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FAX: 952-831-1268
WWW.WENCK.COM

CLIENT:

13632 VANBUREN STREET NE
HAM LAKE, MN 55304
PHONE: 763-755-0975
WWW.COONCREEKWD.ORG

PROJECT TITLE:
PLEASURE CREEK BIOCHAR-AND-IRON-ENHANCED SAND FILTER
BLAINE
ANOKA COUNTY, MN

ISSUE NO.	DESCRIPTION	DATE
1	60% DESIGN PLANS	06/18/2019
2	80% DESIGN PLANS	07/01/2019

CERTIFICATION:
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LICENSE NO.: _____
DATE: _____

PROJECT NO.: 1239-0100-04

DWN BY:	CHKD BY:	APP'D BY:
BJS	ERM	EAM

ISSUE DATE: 6/2019

ISSUE NO.: _____ ISSUE # _____

SHEET TITLE:
LANDSCAPE PLAN

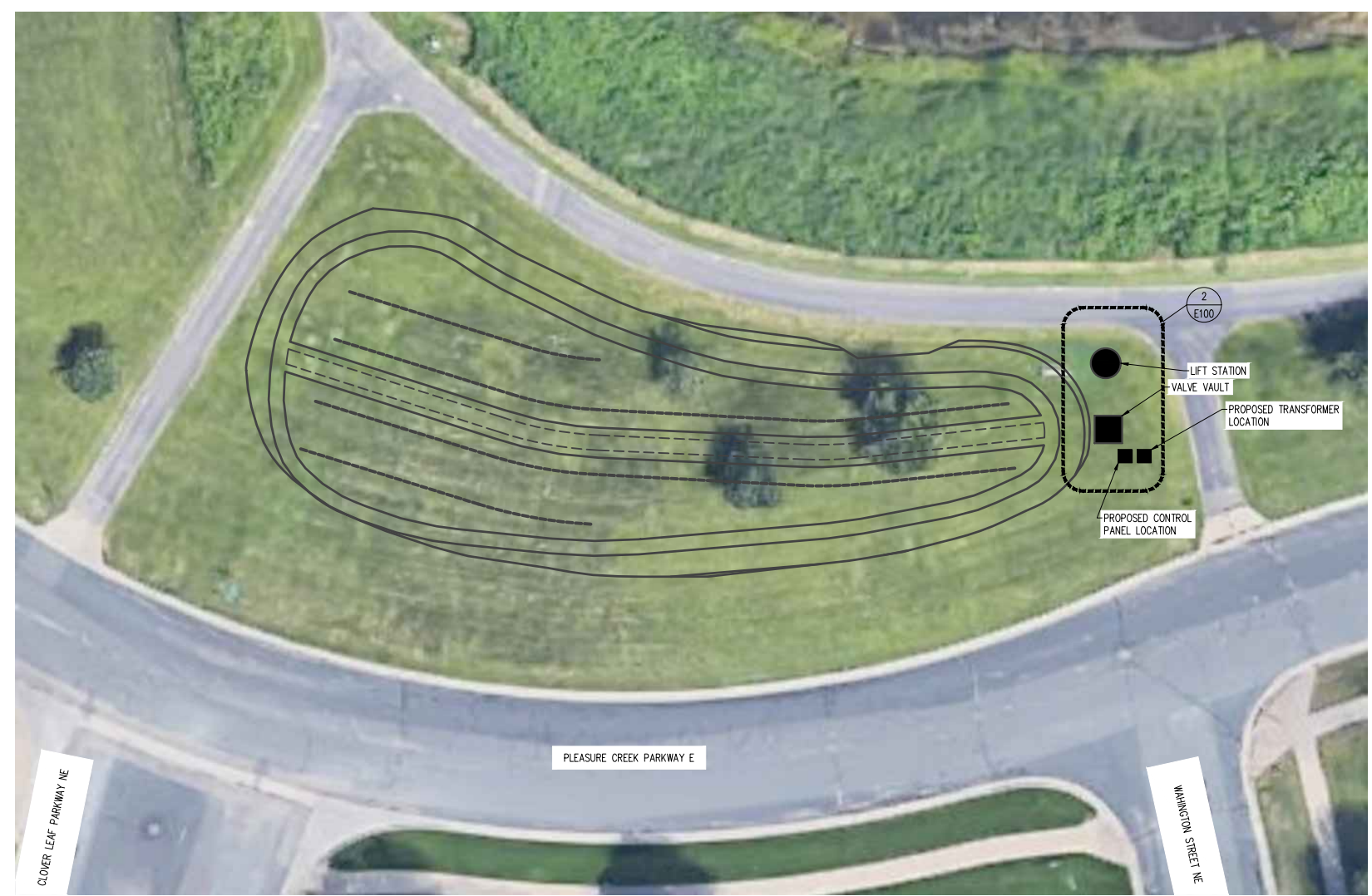
SHEET NO.:
L-100

WARNING:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.

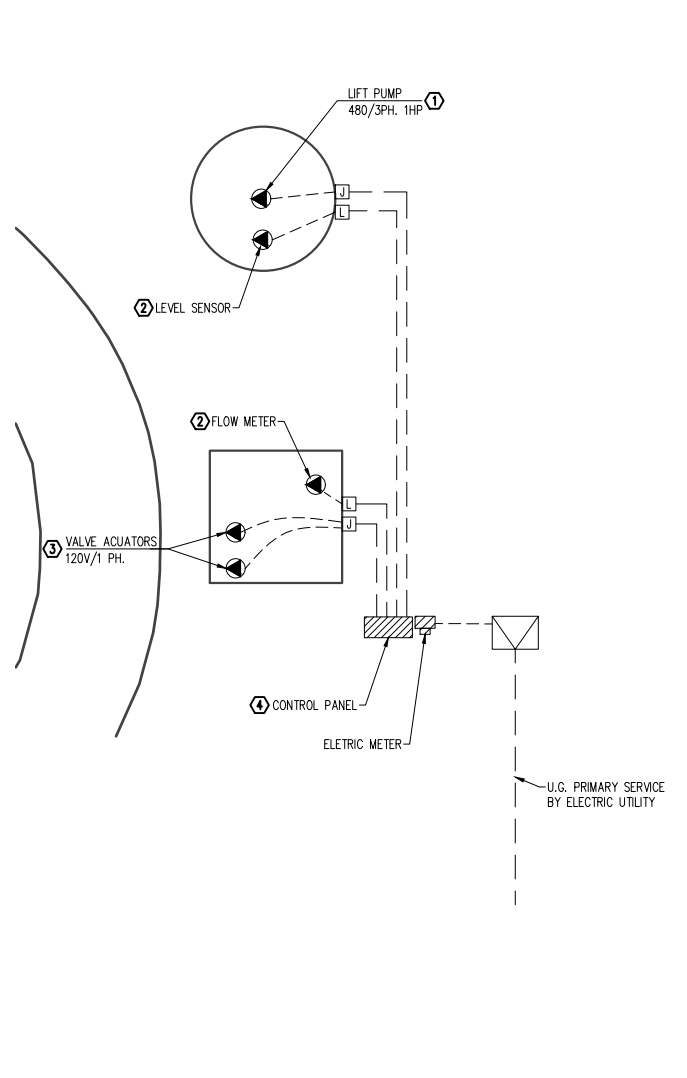
THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

CALL BEFORE YOU DIG
GOPHER STATE ONE CALL
TWIN CITY AREA: 651-454-0002
TOLL FREE 1-800-252-1166

M:\12390100_2019_Planning04_Pleasure Creek Iron-Enhanced Sand Filter\5_DESIGN\LANDSCAPE\LANDSCAPE PLAN.dwg



1 ELECTRICAL SITE PLAN
SCALE: 1/32" = 1'-0"



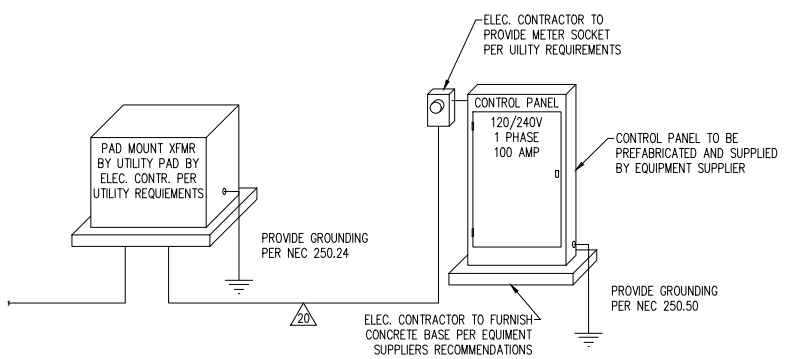
2 ENLARGED ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

FEEDER SCHEDULE						
3 PHASE 4 WIRE						
FEEDER IDENTIFIER	AMPS	CONDUCTOR 75	GROUNDING CONDUCTOR	CONDUIT		# OF RUNS
				PVC	EMT	
1	60	(4)#4	#8	1-1/4"	1-1/4"	1
2	100	(4)#1	#6	1-1/2"	1-1/2"	1
3	125	(4)#2/0	#4	2"	2"	1
4	150	(4)#3/0	#4	2"	2"	1
5	200	(4)#250	#4	2-1/2"	2-1/2"	1
6	225	(4)#300	#2	3"	2-1/2"	1
7	250	(4)#350	#2	3"	2-1/2"	1
8	300	(4)#500	#2	3-1/2"	3"	1
9	400	(4)#250	#1	2-1/2"	2-1/2"	2
10	600	(4)#500	#2/0	3-1/2"	3"	2
11	800	(4)#400	#3/0	3"	3"	3
12	1000	(4)#350	#4/0	3"	3"	4
13	1200	(4)#500	#250	3-1/2"	3"	4
14	1600	(4)#400	#350	3-1/2"	3"	6
15	2000	(4)#350	#400	3"	3"	8
16	2500	(4)#350	#600	3-1/2"	3"	10
17	3000	(4)#500	#600	3-1/2"	3-1/2"	10

1 PHASE 3 WIRE						
FEEDER IDENTIFIER	AMPS	CONDUCTOR 75	GROUNDING CONDUCTOR	CONDUIT		# OF RUNS
				PVC	EMT	
18	40	(3)#8	#8	1"	1"	1
19	60	(3)#4	#8	1"	1"	1
20	100	(3)#1	#6	1-1/4"	1-1/4"	1
21	125	(3)#2/0	#4	1-1/2"	1-1/2"	1
22	150	(3)#3/0	#4	2"	2"	1
23	200	(3)#250	#4	2"	2"	1
24	225	(3)#300	#2	2-1/2"	2-1/2"	1

GENERAL NOTES:
1. ALL FEEDERS ARE SIZED USING ALUMINUM CONDUCTORS.

POWER & COMMUNICATION LEGEND	
⊕	120V DUPLEX OUTLET
⊕	120V QUAD OUTLET
⊕	240 VOLT RECEPTACLE
⊕	120V SWITCHED RECEPTACLE
▽	DATA/COMMUNICATIONS OUTLET
▽	TELEPHONE OUTLET
▽	TELEVISION OUTLET
▽	TELE/DATA/CATV COMBO OUTLET
▽	FLOOR MOUNTED 120V. QUAD OUTLET
⊔	JUNCTION BOX
⊔	PUSHBUTTON STATION
⊔	SPEAKER
⊔	TIME CLOCK
⊔	PUSHBUTTON
⊔	MOTOR CONNECTION
⊔	ELECTRICAL DISCONNECT
⊔	ELECTRICAL STARTER DISCONNECT
⊔	ELECTRICAL CONNECTION W/NON-FUSED DISCONNECT
⊔	ELECTRICAL CONNECTION W/FUSED DISCONNECT
⊔	ELECTRICAL CONNECTION W/WEATHER PROOF DISCONNECTS
⊔	ELECTRICAL CONNECTION W/20A SWITCH FUSE
▨	PANELBOARD
⊔	THERMOSTAT MOUNTED AT 48" A.F.F.
⊔	LOW VOLTAGE JUNCTION BOX



3 ONE LINE DIAGRAM
NOT TO SCALE

A.C/a
Auth•Consulting/associates

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406 Technology Drive E.
Suite A
Menomonie, WI 54751
Tel 715-232-8490
Fax 715-232-8492

BRANCH OFFICE
2920 Erlow Street
Suite 101
Hudson, WI 54016
Tel 715-381-8277

- ELECTRICAL GENERAL NOTES**
- CONDUITS SHALL BE 3/4" MINIMUM SIZE. MINIMUM CIRCUIT WIRING SHALL BE 75C, 2-#12AWG, 1-#12AWG GND.
 - ALL CONDUCTORS SHALL BE COPPER. POWER, INSTRUMENTATION, CONTROL, AND COMMUNICATIONS CABLING SHALL BE IN SEPARATE CONDUITS.
 - ALL SPARE CONDUITS SHALL BE PROVIDED WITH PULL ROPE.
 - ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH NATIONAL, STATE AND LOCAL ELECTRICAL CODES.
 - COORDINATE WORK WITH ALL OTHER TRADES.
 - EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - ALL WIRING SHALL BE INSTALLED IN APPROVED RACEWAYS.
 - ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED AT ALL LOCATIONS.
 - USE COMMERCIAL GRADE RECEPTACLES AND SWITCHES.
- ELECTRICAL KEYED NOTES**
- GENERAL NOTES:**
- CONDUIT ROUTES ARE SCHEMATIC. ELECTRICAL CONTRACTOR TO COORDINATE FINAL ROUTES AND ADD PULL BOXES AS NECESSARY.
 - LIFT PUMP WILL BE SUPPLIED WITH SUBMERSIBLE POWER CABLE, ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND PULLING WIRE BACK TO CONTROL PANEL.
 - SCHEDULE 40 PVC IS ALLOWED FOR BURIED CONDUIT
 - ELECTRIC CONTRACTOR IS RESPONSIBLE FOR DRILLING/CORING ALL CONDUITS THROUGH CONCRETE MAN HOLES AND VAULTS SEAL AROUND ALL CONDUIT PENETRATIONS
 - ELECTRIC CONTRACTOR TO PROVIDE (4) RUNS OF 3/4" CONDUIT TO DESIGNATED JUNCTION BOXES. ELECTRIC CONTRACTOR TO PROVIDE AND INSTALL (4) WEATHER PROOF JUNCTION/PULL BOXES, AND NECESSARY BOOKING TO MOUNT JUNCTION BOXES.
 - 1. LIFT PUMP IS TO BE PROVIDED WITH SUBMERSIBLE CORD. ELECTRIC CONTRACTOR TO PROVIDE AND INSTALL COMPLETE BRANCH CIRCUIT ASSEMBLY. PULL ALL WIRING AND TERMINATE BRANCH CIRCUIT CONTROL PANEL.
 - 2. ELECTRIC CONTRACTOR TO INSTALL ALL RACEWAY AND PULL WIRING FOR LOW VOLTAGE DEVICE. PROVIDE 2 WIRE 18 AWG SHIELDED WIRE AND COORDINATE WITH CONTROL PANEL MANUFACTURER TO TERMINATED WIRING IN CONTROL PANEL.
 - 3. PROVIDE DEDICATED 120V BRANCH CIRCUITS TO (2) VALVE ACTUATORS. PROVIDE AND INSTALL COMPLETE BRANCH CIRCUIT ASSEMBLY INCLUDING CONDUIT, WIRING, AND PULL BOXES. COORDINATE WITH CONTROL PANEL MANUFACTURER TO TERMINATE WIRING IN CONTROL PANEL.
 - 4. CONTROL PANEL TO BE PRE-FABRICATED BY OTHERS. ELECTRIC CONTRACTOR TO PROVIDE AND MOUNT METER SOCKET ON SIDE OF CONTROL PANEL AND PROVIDE CONDUIT PER UTILITY REQUIREMENTS. CONNECT SERVICE TO MAIN CIRCUIT BREAKER ON CONTROL PANEL. ELECTRIC CONTRACTOR TO PROVIDE CONCRETE BASE FOR CONTROL PANEL. COORDINATE WITH CONTROL PANEL MANUFACTURER FOR FINAL DIMENSIONS.

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GOLDEN VALLEY, MN 55427
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CLIENT:
Coon Creek Watershed District

PLEASURE CREEK IRON-ENHANCED SAND FILTER
BLAINE ANOKA COUNTY, MN

PROJECT TITLE: PLEASURE CREEK IRON-ENHANCED SAND FILTER

ISSUE NO.	ISSUE #	DESCRIPTION	DATE
1		ISSUED FOR BUILDING	6/28/2019

CERTIFICATION:

NOT FOR CONSTRUCTION

PROJECT NO.: 1073-005-019

DWN BY: GLP CHKD BY: TJA II APP'D BY: TJA

ISSUE DATE: 6/2019 ISSUE #: E100

SHEET TITLE: ELECTRICAL PLAN

SHEET NO.: E100

WARNING:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

CALL BEFORE YOU DIG
GOPHER STATE ONE CALL
TWIN CITY AREA: 651-454-0002
TOLL FREE 1-800-252-1166