





PROJECT AREA

Feet Contract Drawings For

325 BLAKE RD

REGIONAL STORMWATER AND GREENWAY PROJECT

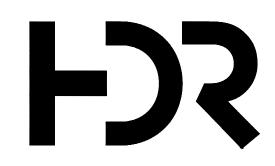
HDR Project No. 10268112

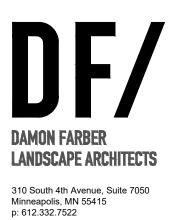
HOPKINS, MINNESOTA FEBRUARY, 2023

<u>GENERAL</u> GC102 GC103 GC104 GC10S GC106 GC107 GC108

<u>SITE WORK</u> EC101 - EC10S SWPPP & EROSION CONTROL PLAN CG301 CGS01 - CGS02 CIVIL DETAILS CIN01 CPS01 S001 SA100 SA301 SB100 SB301 SC100 SC301 SD100 SD301 E001 E401 E601 L000 L001 L002 L020 L021 L030 L130 - L131 SOIL PLANS LS90

STANDARD DETAILS SEE PACKAGE FOR DRAWING LIST





INDEX OF DRAWINGS

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	GENERAL CONS	TRUCTION NOT	ES			
1.	IN THE PLANS. THE C	CONTRACTOR IS REFOR A UTILITY LOCA	HETHER OR NOT THEY A SPONSIBLE FOR CONTAC TE AT LEAST 72 HOURS F	TING		
2.	THE CONTRACTOR IS	S RESPONSIBLE FO	R APPLYING FOR THE MIN TER PERMIT (SWPPP) AN			
3.	STAKE CONSTRUCTI REVIEW PRIOR TO S		NER'S REPRESENTATIVE CTION.	ТО		
4.			O ANY EXISTING STRUCTU RRED IS THE RESPONSIB			
5.	POWER LINES. REVIE AND FOLLOW A PLAN	EW APPLICABLE OS N FOR ALL PERSON	I THE VICINITY OF OVERH HA REQUIREMENTS AND NEL AND VEHICLES THAT LINES THAT FOLLOWS OS	DEVELOP WILL BE		
6.	ALL PRE-PROJECT D OTHERWISE SHOWN		S WILL BE MAINTAINED U CTION DRAWINGS.	NLESS		
7.	RESTORE AREAS DIS PRE-CONSTRUCTION		CONSTRUCTION TO ESS OTHERWISE NOTED.			
8.	DO NOT INTERRUPT	OR BLOCK PUBLIC	ROAD TRAFFIC.			
9.	PROPERTY BY OTHE DEVELOPMENT CON REQUIRED. SEE SHE	R CONTRACTORS. TRACTOR AND CON ET GC106 FOR DET NNEL TO THE SITE	CONSTRUCTION WITHIN TH COORDINATION WITH ALA ISTRUCTION PHASING WI AILS. PROVIDE ACCESS F FROM PUBLIC ROADS AN	ATUS LL BE FOR		
10.	CONTRACTOR'S RES	PONSIBILITY TO MO TS AND PREPARE 1	R LEVELS WILL VARY. IT IS ONITOR CREEK LEVELS AI THE SITE FOR POTENTIAL	ND		
11.	(ROW) AND NON-HAE	BITABLE BUILDING F	R APPLYING FOR RIGHT (PERMITS WITH THE CITY (CITY POINTS OF CONTACT)F		
	ERIC KLINGBEIL, CIT (EKLINGBEIL@HOPK					
	VANCE CAMPBELL, E (VCAMPBELL@HOPK		RDINATION - ROW PERMIT	TING		
	CHRISTOPHER KEAR (CKEARNEY@HOPKI		FICIAL - BUILDING PERMIT	TING		
	DUSTIN PAVEK, STRI (DPAVEK@HOPKINSI		UPERVISOR - LIGHTING/S	IGNAGE		
	AY OF		L		PROJECT MANAGER	ANDREW F. JUDD
0	ALL AVYING					
		しつ				
00		FJS	C 03/28/2023 100% D B 09/14/2022 90% DE			
		V	A 06/13/2022 PFA GF	RANT PACKAGE	PROJECT NUMBER	10268112
WINN	EHAHA CREEK		LIGGE DATE DESCR			10200112

MINNEHAH	A CREEK
WATERSHED	DISTRICT

E	DESCRIPTION
2022	PFA GRANT PACKAC
2022	90% DESIGN
2023	100% DESIGN

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

ANDREW F. JUDD, PE

DATE XX/XX/XXXX LICENSE # 47301

325 BLAKE RD REGIONAL STORMWATER AND GREENWAY

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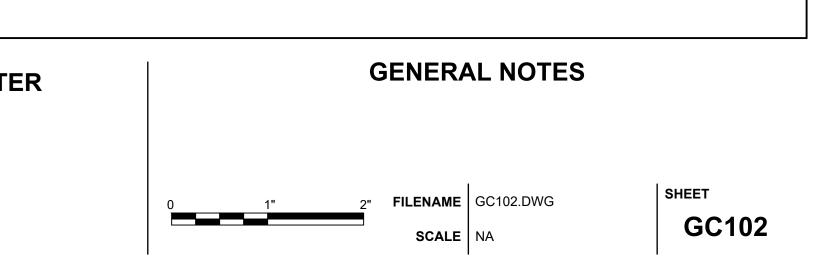
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MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343



$ \Gamma$	CIVIL N	IAPPING SYMBOLOGY	UTILITY/CIVIL LIN	E SYMBOLOGY
		EMBANKMENT SLOPE (CUT)		UTILITY BENEATH STRUCTURE
		EMBANKMENT SLOPE (FILL)		EASEMENT
	H:V	EMBANKMENT SLOPE RIGHT ARROW RIGHT		LIMITS OF CONSTRUCTION
	H:V	EMBANKMENT SLOPE LEFT ARROW LEFT		ROW
	×	SPOT ELEVATION/POINT #		EXISTING CONTOUR (MINOR)
		SURVEY BENCHMARK	25	EXISTING CONTOUR W/ELEVATION (MAJOR)
	CP-X	SURVEY CONTROL POINT		SURVEYED EDGE OF WATER
	<u>A</u>	HORIZONTAL CONTROL POINT		NEW CONTOUR (MINOR)
	\odot	VERTICAL CONTROL POINT		NEW CONTOUR (MAJOR)
	ĕ,	TEST PIT		SEDIMENT CONTROL LOG, TYPE WOOD CHIP
	Ø _x	SOIL BORING	+HI-HI-HI-HI-HI-HI-HI-HI-HI-HI-HI-HI-HI-H	SILT FENCE, TYPE HI
	✓X✓X	FLOW ARROW	F	
	$\overline{\underline{\nabla}}$	WATER LEVEL IN SECTION/PROFILE	G-D	
	Ē	DOWNGUY		SANITARY FORCE MAIN
	(J) ^x	EXTERIOR UTILITY JUNCTION BOX	$\rightarrow \rightarrow $	SANITARY SEWER
	~			WATERMAIN
		INTERSTATE HIGHWAY SYMBOL		OVERHEAD ELECTRICAL
	<u>XXXX</u>	US HIGHWAY SYMBOL		STREET LIGHTS
	XXX	STATE HIGHWAY SYMBOL		CABLE
	xxx	COUNTY ROAD SYMBOL	UGT	UNDERGROUND TELEPHONE
	•	TEMPORARY SEDIMENT TRAP	TEL	TELEPHONE
	O _x	PIEZOMETER		SEDIMENT CONTROL LOG, TYPE ROCK
	Ŕ	RAIL SIGNAL		100-FT MINNEHAHA CREEK BUFFER TEMPORARY PERIMETER CONTROL
	₹¥¢¢			FLOTATION SILT CURTAIN
	~	FIRE HYDRANT		TEMPORARY FENCE
	(MV)	MONITORING WELL	+	HYDRAULIC MULCH
				ROLLED EROSION PREVENTION CATEGORY 3N
	СВ	STORM SQUARE CATCH BASIN		RIPRAP
	Св	STORM ROUND CATCH BASIN		LANDING MIX
	D	STORM DRAINAGE MANHOLE		MNDOT CATEGORY 76 HP-TRM
		DOMESTIC WATER VALVE		EXISTING WETLAND
	PD	PEDESTAL		SOIL TESTING AREA
	\square	POWER BOX		
	Ø	POLE		
		- TARGET ELEVATION		

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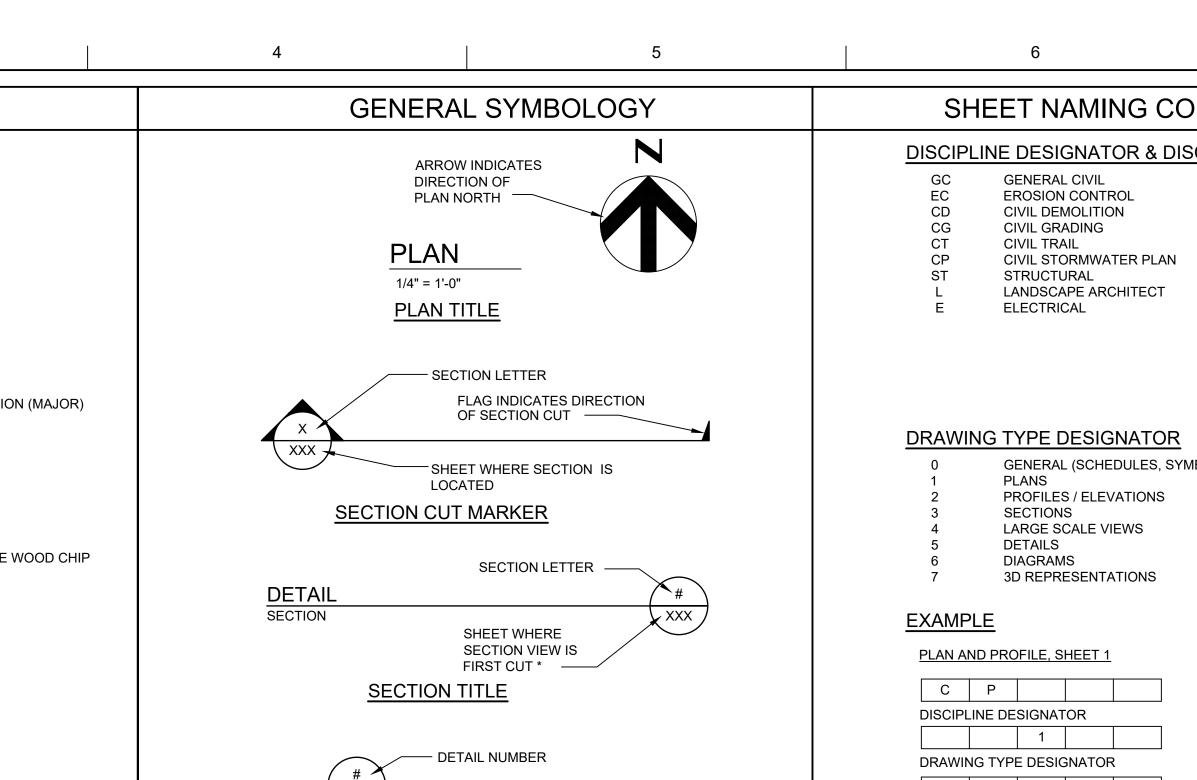
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WATERSHED DISTRICT



С	03/28/2023	100% DESIGN
 	09/14/2022	90% DESIGN
A	06/13/2022	PFA GRANT PACKAGE
ISSUE	DATE	DESCRIPTION



FOR REFERENCING DETAILS INCLUDED IN DRAWING SET.
XXXXXXXXXX

DETAIL MARKER

DETAIL MARKER
FOR REFERENCING DETAILS BOUND IN SPECIFICATIONS OR SEPARATE VOLUME.
DETAIL NUMBER

XXX

XXX

- SHEET WHERE DETAIL

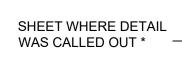
IS LOCATED *



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XXX

XXX 🖵



DETAIL TITLE

-ELEVATION NUMBER - ARROW INDICATES POINT OF VIEW -SHEET WHERE ELEVATION IS LOCATED *

SINGLE ELEVATION OR PHOTO MARKER

- ELEVATION NUMBER

- ARROW INDICATES POINT OF VIEW ELEVATION

- INDICATES SHEET WHERE ELEVATION IS LOCATED

MULTIPLE ELEVATION OR PHOTO MARKER ELEVATION

IDENTIFICATION NUMBER

ELEVATION SCALE

PROJECT MANAGER ANDREW F. JUDD

PROJECT NUMBER 10268112

SHEET WHERE POINT OF VIEW MARKER CAN BE FOUND *

ELEVATION TITLE

- * EXCEPTIONS WHERE THE SHEET NUMBER IS REPLACED BY A DASH (-).
- 1) FOR COMMON DETAILS, SECTIONS, ELEVATIONS OR DETAILS THAT
- ARE CUT OR CALLED OUT ON MULTIPLE SHEETS. 2) SECTIONS, ELEVATIONS OR DETAILS THAT ARE LOCATED ON THE
- SAME SHEET THEY ARE CUT OR CALLED OUT ON.

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

325 BLAKE RD REGIONAL STORMWATE AND GREENWAY

MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343

ANDREW F. JUDD, PE DATE XX/XX/XXXX

LICENSE # 47301

DRAWING TYPE DESIGNATOR 0 1 SHEET NUMBER C P 1 0 1 SAMPLE SHEET NUMBER

GENERAL NOTES:

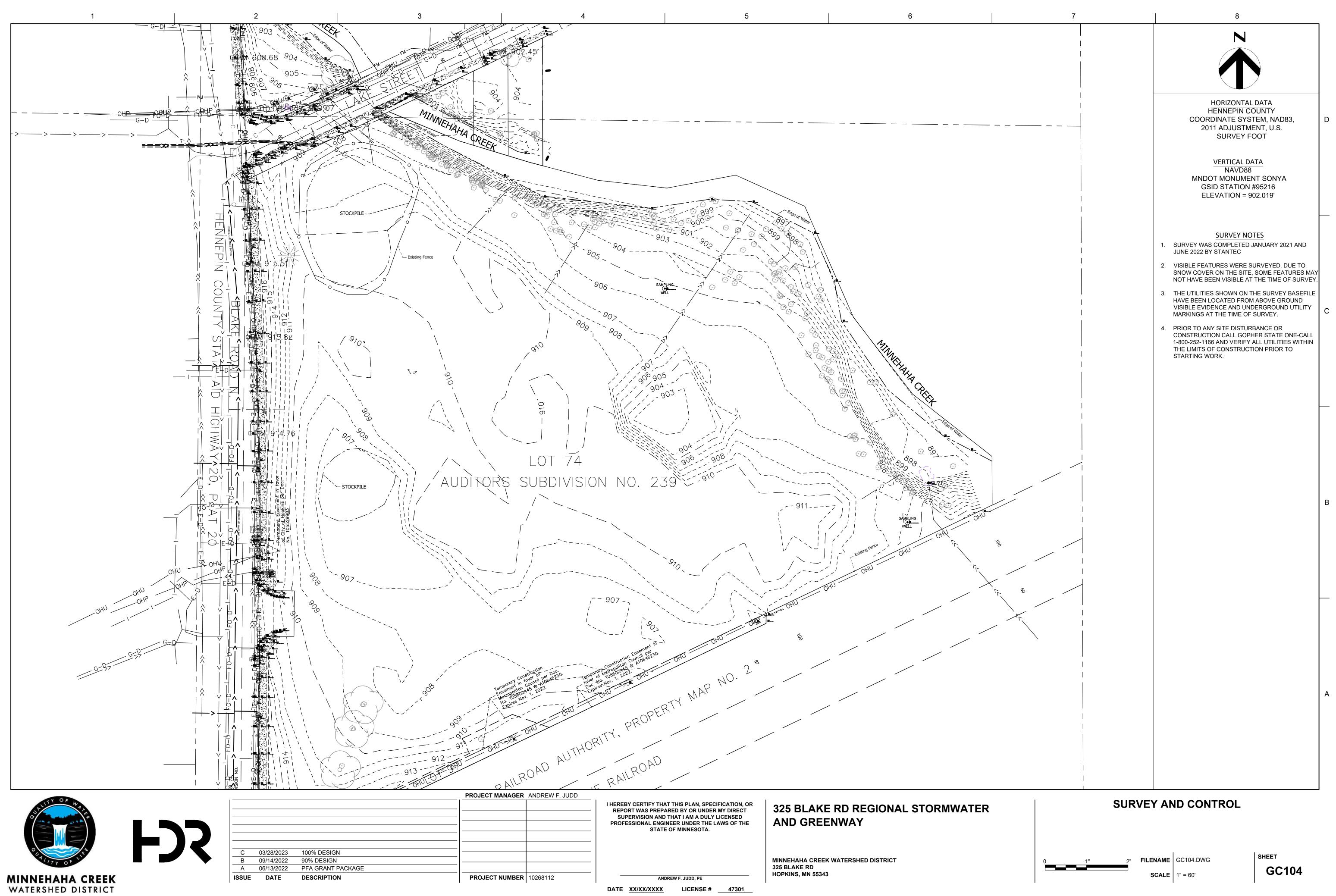
1. THIS IS A STANDARD CIVIL SYMBOLOGY SHEET. NECESSARILY USED ON THIS PROJECT.

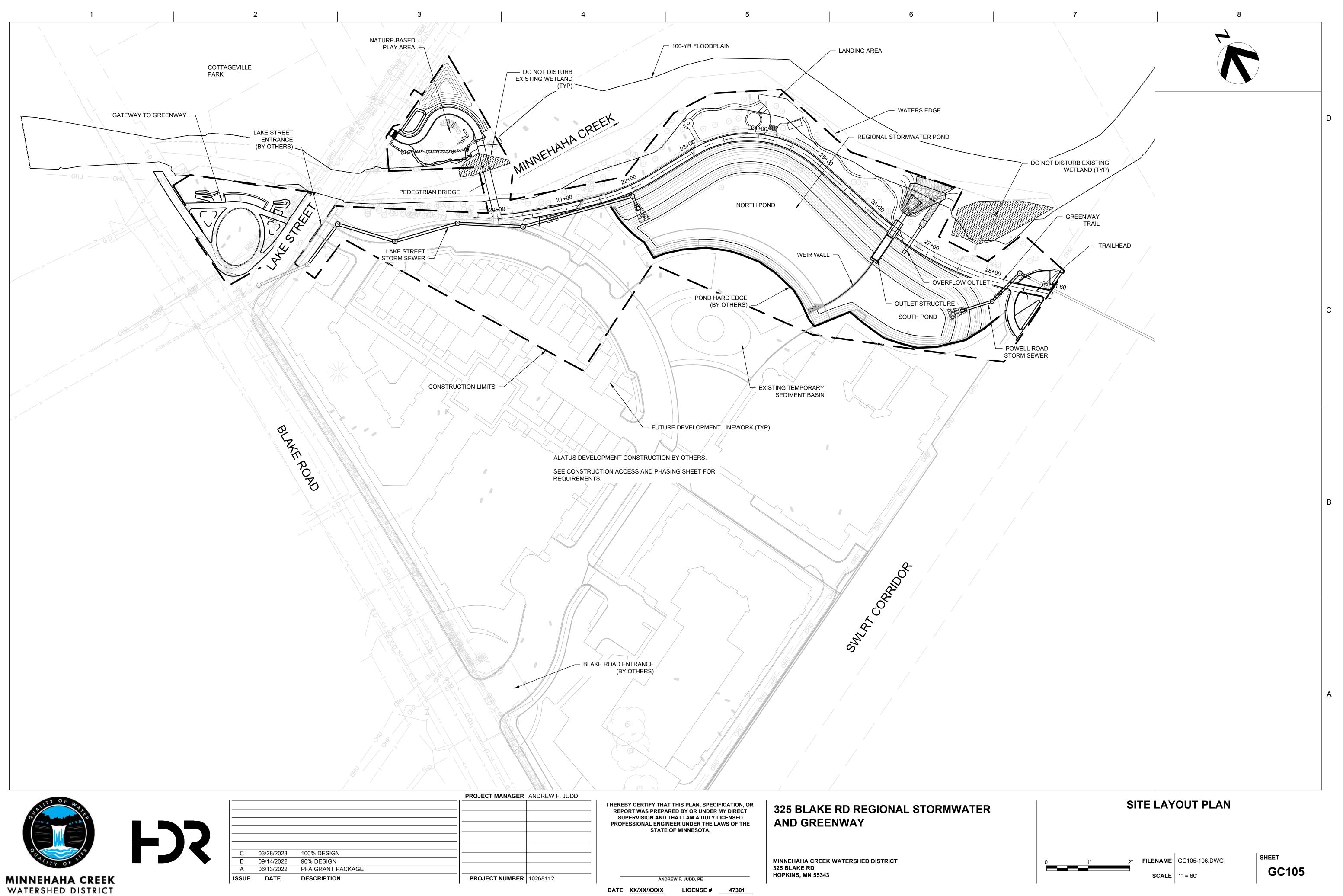
2. SCREENING OR SHADING OF WORK IS USED TO IN OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS WORK. REFER TO CONTEXT OF EACH SHEET FOR L

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ONVENTION				
SCIPLINE ORDER				
				D
MBOLS, LEGENDS)				
			-	
				С
			-	
ALL SYMBOLS ARE NOT				
NDICATE EXISTING COMPONENTS TO HIGHLIGHT SELECTED TRADE				
JSAGE.				В
				A
		CT SYMBOLOG	✓	
ER	FRUJE			
			SHEET	
0 1"	2" FILEI	AME GC103.DWG	CC103	

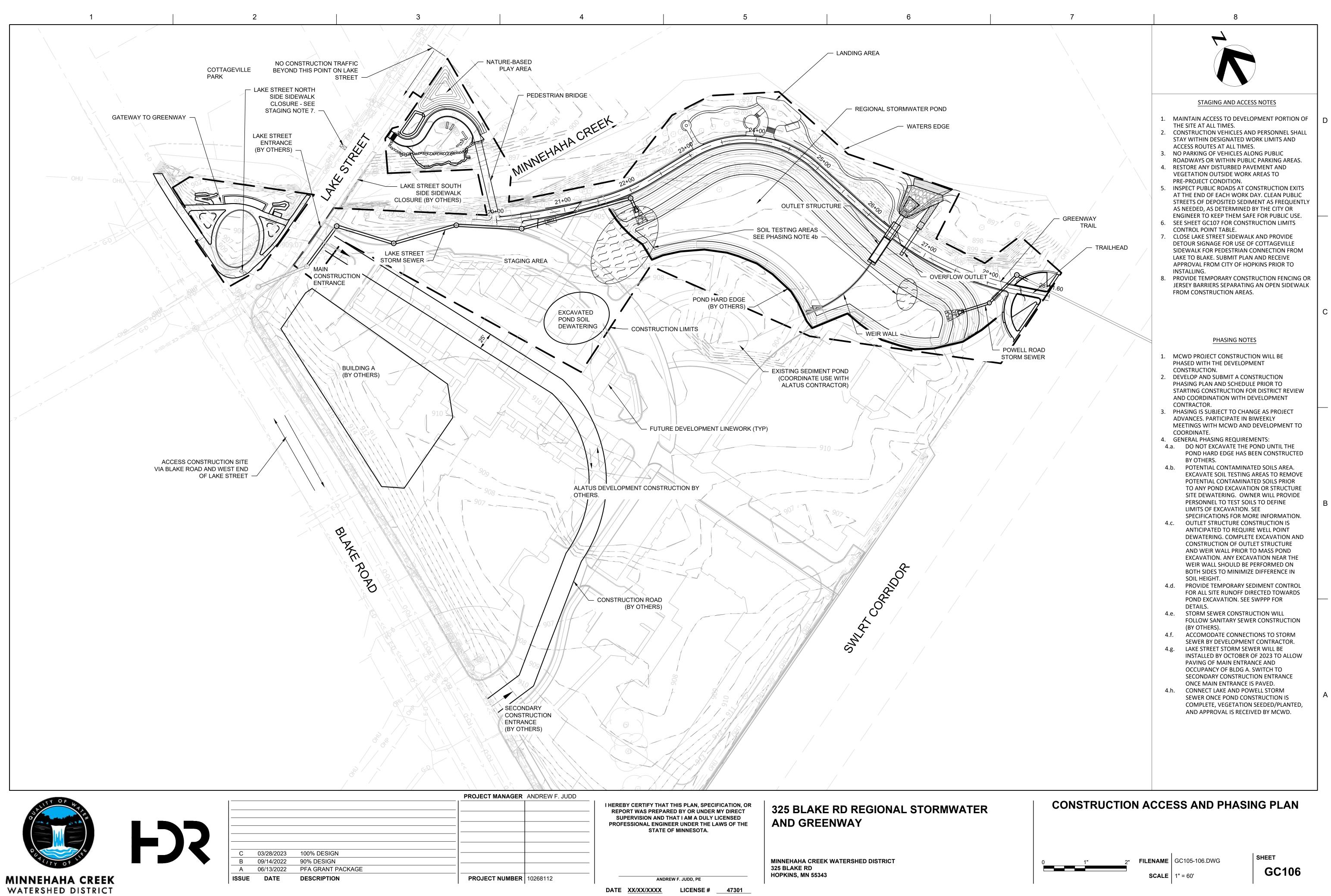
SCALE NA

GC103



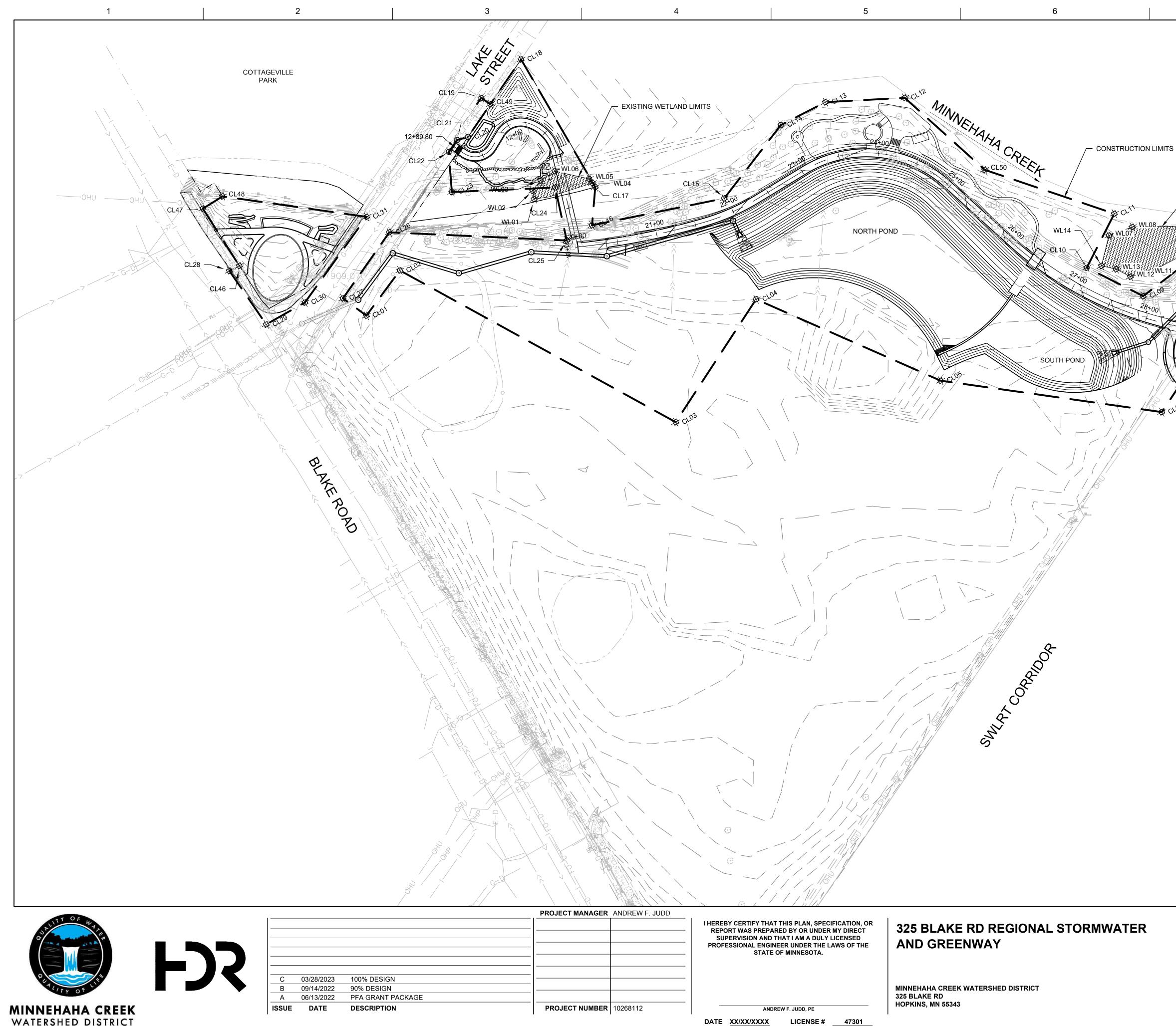


 HOPKINS



MINNEHAHA CREEK WATERSHED DISTRI
325 BLAKE RD
HOPKINS, MN 55343

	ANDRE
DATE	



	() ACTIVATION
PROJECT MANAGER	ANDREW F. JUDD
PROJECT NUMBER	10268112

DATE XX/XX/XXXX LICENSE # 47301

	[CL Point Ta	ble	1	
		Point #	Northing	Easting		
		CL9	150640.611	500397.575		
		CL1	151105.693	499542.915		
		CL2	151133.734	499607.620		
DLIMITS	,	CL3	150796.547	499811.683		
		CL4	150879.497	499975.828	1	
		CL5	150675.662	500124.918	1	
		CL6	150503.155	500345.034	1	
		CL7	150572.987	500486.613		
		CL8	150648.841	500461.458		
		CL10	150706.708	500354.126		
		CL11	150748.011	500417.834		
		CL12	151005.013	500263.039		
		CL13	151049.838	500174.410		
		CL14	151052.940	500111.841		
Tr.		CL15	151008.870	500004.424		
		CL16	151062.461	499844.230		
		CL17	151101.870	499871.624		
		CL18	151286.775	499871.120		
		CL19	151269.767	499803.763		
		CL20	151235.823	499764.880		
		CL21	151239.449	499751.311		
		CL22	151231.688	499735.054		
		CL23	151186.272	499713.033		
		CL24	151126.462	499827.915		
		CL25	151061.782	499807.294		
		CL26	151181.699	499620.025		
		CL27	151139.148	499528.417		
		CL28	151240.128	499422.420		
		CL29	151158.915	499428.896		
		CL30	151158.440	499484.518		
		CL31	151212.759	499604.999		
		CL46	151239.342	499436.441		
		CL47	151324.177	499432.640		
		CL48	151325.167	499461.658		
		CL49	151257.459	499809.796		
		CL50	150876.826	500304.742	J	
			WL Point Ta	ble		
		Point #	Northing	Easting		
		WL01	150693.265	500481.574		
		WL02	151127.183	499797.922		
		WL03	151137.087	499801.425		
		WL04	151143.425	499816.478		
		WL05	151108.119	499871.141		
		WL06	151114.569	499870.284		
		WL07	151144.396	499837.691		
		WL08	150727.719	500398.304		
		WL09	150722.375	500428.996		
		WL10	150659.816	500519.211		
		WL11	150662.499	500417.436		

CL1	151105.693	499542.915
CL2	151133.734	499607.620
CL3	150796.547	499811.683
CL4	150879.497	499975.828
CL5	150675.662	500124.918
CL6	150503.155	500345.034
CL7	150572.987	500486.613
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CL16	151062.461	499844.230
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CL18	151286.775	499871.120
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CL27	151139.148	499528.417
CL28	151240.128	499422.420
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CL46	151239.342	499436.441
CL47	151324.177	499432.640
CL48	151325.167	499461.658
CL49	151257.459	499809.796
CL50	150876.826	500304.742
	WL Point Ta	ble
Point #	Northing	Easting
WL01	150693.265	500481.574
WL02	151127.183	499797.922
WL03	151137.087	499801.425
WL04	151143.425	499816.478
WL05	151108.119	499871.141
WL06	151114.569	499870.284
WL07	151144.396	499837.691
WL08	150727.719	500398.304
WL09	150722.375	500428.996
WL10	150659.816	500519.211
WL11	150662.499	500417.436
WL12	150669.791	500395.852
WL13	150686.806	500385.059
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CONSTRUCTION LIMIT CONTROL POINTS

FILENAME GC107.DWG

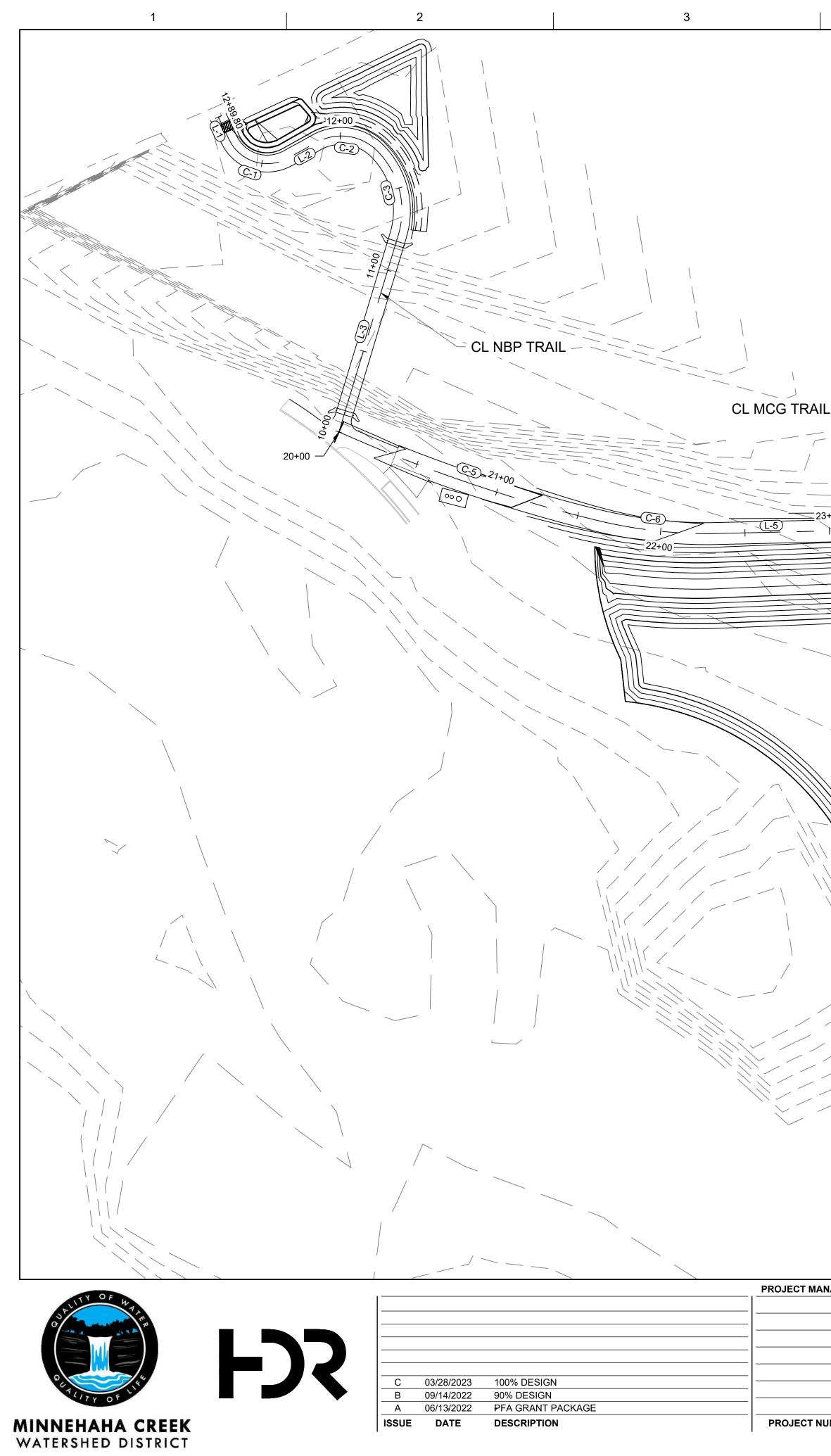
SCALE 1" = 60'

WL14 150699.567 500371.245

SHEET

GC107

D



Trail Alignment									
NUMBER	PI STA	LENGTH	RADIUS	LINE/CHORD DIRECTION	STARTING COORDINATES	ENDING COORDINATES	STATION START	STATION END	Δ
C-4	27+26.30	242.03'	450.00'	S33°14'52"E	E 500287.771 N 150783.579	E 500418.871 N 150583.601	26+02.28	28+44.31	30°49'00
C-5	20+80.65	160.86'	894.00'	S71°03'32"E	E 499815.259 N 151047.751	E 499967.206 N 150995.606	20+00.00	21+60.86	10°18'30
C-6	21+94.83	67.61'	281.00'	S83°06'25"E	E 499967.206 N 150995.606	E 500034.170 N 150987.511	21+60.86	22+28.48	13°47'1
C-7	24+15.08	192.51'	150.00'	S54°36'27"E	E 500108.674 N 150989.218	E 500255.061 N 150885.215	23+03.00	24+95.51	73°32'1
L-4	NA	47.29'	NA	S48°39'20"E	E 500418.871 N 150583.601	E 500454.375 N 150552.360	28+44.31	28+91.60	
L-5	NA	74.52'	NA	N88°41'14"E	E 500034.170 N 150987.511	E 500108.674 N 150989.218	22+28.48	23+03.00	
L-6	NA	106.77'	NA	S17°50'23"E	E 500255.061 N 150885.215	E 500287.771 N 150783.579	24+95.51	26+02.28	

	Weir Wall Alignment								
NUMBER	PI STA	LENGTH	RADIUS	LINE/CHORD DIRECTION	STARTING COORDINATES	ENDING COORDINATES	STATION START	STATION END	Δ
C-8	60+70.74	97.85'	180.00'	N79°23'59"E	E 500155.973 N 150703.775	E 500250.970 N 150721.553	60+20.58	61+18.43	31°08'40"
L-7	NA	6.79'	NA	N63°49'38"E	E 500250.970 N 150721.553	E 500257.060 N 150724.547	61+18.43	61+25.21	
L-8	NA	20.58'	NA	S85°01'39"E	E 500135.471 N 150705.559	E 500155.973 N 150703.775	60+00.00	60+20.58	

	Nature Play Trail Alignment								
NUMBER	PI STA	LENGTH	RADIUS	LINE/CHORD DIRECTION	STARTING COORDINATES	ENDING COORDINATES	STATION START	STATION END	Δ
C-1	12+60.70	39.86'	25.00'	N71°11'28"W	E 499784.084 N 151209.297	E 499750.227 N 151220.829	12+35.11	12+74.97	91°20'30"
C-2	11+98.36	38.60'	30.00'	N82°02'03"W	E 499837.805 N 151214.269	E 499802.164 N 151219.256	11+75.87	12+14.47	73°42'40"
C-3	11+51.82	54.07'	50.00'	N14°11'43"W	E 499850.429 N 151164.363	E 499837.805 N 151214.269	11+21.80	11+75.87	61°57'50"
L-1	NA	14.84'	NA	N25°32'58"W	E 499750.227 N 151220.829	E 499743.828 N 151234.215	12+74.97	12+89.80	
L-2	NA	20.64'	NA	S61°09'11"W	E 499802.164 N 151219.256	E 499784.084 N 151209.297	12+14.47	12+35.11	
L-3	NA	121.80'	NA	N16°47'07"E	E 499815.255 N 151047.752	E 499850.429 N 151164.363	10+00.00	11+21.80	

PROJECT MANAGER	ANDREW F. JUDD
PROJECT NUMBER	10268112
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CL WEIR WALL

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

ANDREW F. JUDD, PE

325 BLAKE RD REGIONAL STORMWATER AND GREENWAY

MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343

DATE XX/XX/XXXX LICENSE # 47301

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ALIGNMENT PLAN AND TABLES

FILENAME GC108.DWG **SCALE** 1" = 40'

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE

PROJECT DESCRIPTION/LOCATION

THE PROPOSED PROJECT IS LOCATED AT 325 BLAKE ROAD NORTH IN THE CITY OF HOPKINS, MN, INCLUDING ADJACENT PARCELS AS DESCRIBED IN THE **PROJECT DESIGN PLANS.**

THE PLANNED SCOPE OF THE PROJECT INCLUDES 1) PUBLIC REALM IMPROVEMENTS, AND 2) MIXED-USE DEVELOPMENT. THESE PROJECT SCOPES ARE INTENDED AS A COMMON PLAN OF DEVELOPMENT, EACH WITH A SEPARATE SET OF DESIGN AND CONSTRUCTION DRAWINGS, CALCULATIONS, AND ASSOCIATED REPORTS.

- 1) PUBLIC REALM IMPROVEMENTS GENERALLY CONSIST OF THE FOLLOWING ACTIVITIES: STORM SEWER CONSTRUCTION, REGIONAL STORWMATER POND EXCAVATION AND CONSTRUCTION, GREENWAY TRAIL GRADING AND CONSTRUCTION, CONSTRUCTION OF A PUBLIC PLAZA (GATEWAY TO GREENWAY), CONSTRUCTION OF A GREENWAY TRAILHEAD AND ASSOCIATED AMENITIES, CONSTRUCTION OF A PUBLIC LEISURE AREA ALONG MINNEHAHA CREEK (THE LANDING), AND CONSTRUCTION OF A NATURE-BASED PLAY AREA. CONSTRUCTION SUPPORT ACTIVITIES INCLUDE THE INSTALLATION OF A MULTI-STAGE STORMWATER POND OUTLET STRUCTURE, LANDSCAPING AND SITE RESTORATION, AND THE INSTALLATION OF TEMPORARY AND PERMANENT STORMWATER BEST MANAGEMENT PRACTICES (BMPs). REFER TO DESIGN PLANS, MODELS, AND REPORTS DEVELOPED BY HDR ENGINEERING, INC. FOR MORE INFORMATION.
- 2) MIXED-USE DEVELOPMENT CONSISTS OF THE CONSTRUCTION OF NEW RESIDENTIAL BUILDINGS, PRIVATE ROADS AND PARKING AREAS, RESTAURANTS, AND ASSOCIATED UTILITIES. CONSTRUCTION AND OPERATION SUPPORT ACTIVITIES INCLUDE THE INSTALLATION OF A WET WELL AND PUMP FOR STORMWATER RE-USE, INSTALLATION OF A STORMWATER CASCADE, INSTALLATION OF TEMPORARY AND PERMANENT STORMWATER BMPs, LANDSCAPING AND SITE RESTORATION. REFER TO DESIGN PLANS, MODELS, AND REPORTS DEVELOPED BY LOUCKS, INC., FOR MORE INFORMATION.

RECEIVING WATERS WITHIN 1-MILE AERIAL RADIUS OF PROJECT

RECEIVING WATER	LOCATION	SPECIAL WATER	IMPAIRED WATER	TROUT
UNNAMED WETLANDS	RIPARIAN EDGE OF	NO	NO	NO
	MINNEHAHA CREEK			
MINNEHAHA CREEK	ADJACENT TO ALL	NO	YES*	NO
	CONSTRUCTION SITES			

* THIS REACH IS IMPAIRED FOR CHLORIDE, FECAL COLIFORM (E. COLI), DISSOLVED OXYGEN (DO), MACROINVERTEBRATES BIOASSESSMENTS, AND FISH **BIOASSESSMENTS.**

** MNDNR INVENTORY OF INFESTED WATERS LISTS THIS REACH FOR ZEBRA MUSSEL, FLOWERING RUSH, AND EURASIAN WATERMILFOIL.

THE RECEIVING WATERS LISTED IN THE TABLE ABOVE ARE LOCATED WITHIN ONE MILE (AERIAL RADIUS) OF THE PROJECT LIMITS AND RECEIVE RUNOFF FROM THE PROJECT SITE. THE PROXIMITY TO IMPAIRED WATERS REQUIRES ADDITIONAL STORMWATER BMPs AS OUTLINED IN APPENDIX A OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT.

AREAS OF ENVIRONMENTAL SENSITIVITY (AES)

IN ADDITION TO THE LIST OF SPECIAL AND IMPAIRED WATERS, THE CONTRACTOR SHALL BE AWARE THAT THERE ARE WETLANDS WITHIN AND NEAR THE PROJECT BOUNDARY, CONTAMINATED SOILS, AND POTENTIAL FOR WILDLIFE TO BE ON OR NEAR SITE REQUIRING PROTECTION.

SOIL TYPES

SOIL TYPES ON THE PROPERTY PRIMARILY CONSIST OF MEDIUM TO COARSE SAND AND GRAVEL, WITH TRACE AMOUNTS OF SILT AND CLAY. IN SOME LOCATIONS, SOILS NEAR THE GROUND SURFACE ARE COMPRISED OF FILL, CONSISTING OF TOPSOIL AND ORGANIC SANDY SILT. THE DOMINANT SAND AND GRAVEL SOIL TEXTURE IS TYPICALLY TO DEPTHS OF 3 TO 6 FEET OR DEEPER, WHICH IS TYPICALLY UNDERLAIN BY 2 TO 4 FEET OF SOFT CLAY BEFORE TRANSITIONING BACK TO SAND AND GRAVEL AT GREATER DEPTHS. THE GROUNDWATER TABLE IS TYPICALLY SIMILAR IN ELEVATION TO THE WATER SURFACE ELEVATION OF THE ADJACENT MINNEHAHA CREEK, WHICH IS SUBJECT TO SEASONAL WEATHER CONDITIONS. GROUNDWATER HAS BEEN REPORTED BETWEEN ELEVATIONS 889.0 AND 897.9 IN DIFFERENT LOCATIONS OF THE PROPERTY OVER MULTIPLE YEARS OF DATA COLLECTION.

LONG TERM MAINTENANCE AND OPERATION

MINNEHAHA CREEK WATERSHED DISTRICT, CITY OF HOPKINS, AND ALATUS, INC. HAVE ENTERED INTO A COOPERATIVE AGREEMENT FOR LONG-TERM OPERATION AND MAINTENANCE OF VARIOUS PROJECT FEATURES, INCLUDING DEFINED RESPONSIBILITIES FOR VARIOUS PROJECT INFRASTRUCTURE. REFER TO THE PROJECT OPERATION, MAINTENANCE, AND MONITORING (OMM) PLAN FOR MORE INFORMATION.

JUPLITY OF WYIN				PROJECT MANAG	ER ANDREW F. JUDD
		03/28/2023	100% DESIGN		
TTY OF		09/14/2022	90% DESIGN		
	A	06/13/2022	PFA GRANT PACKAGE		
MINNEHAHA CREEK	ISSUE	DATE	DESCRIPTION	PROJECT NUMB	ER 10268112
WATERSHED DISTRICT					

Λ Λ	5
7	5

INVASIVE

NO

YES**

TMDL

NO

YES

PROJECT PERSONNEL AND TRAINING

THIS SWPPP WAS PREPARED BY PERSONNEL THAT ARE CERTIFIED IN THE DESIGN OF CONSTRUCTION SWPPPS. COPIES OF THE CERTIFICATIONS ARE AVAILABLE UPON REQUEST. REFER TO APPENDIX F OF THE PROJECT DESIGN MEMO FOR SCANNED COPIES OF CURRENT CERTIFICATIONS.

THE CONTRACTOR SHALL PROVIDE A CERTIFIED EROSION CONTROL SUPERVISOR IN GOOD STANDING WHO IS KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES. THE EROSION CONTROL SUPERVISOR SHALL WORK WITH THE PROJECT ENGINEER, AS NECESSARY, TO OVERSEE THE IMPLEMENTATION OF THE SWPPP AND THE INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPs BEFORE, DURING AND AFTER CONSTRUCTION UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA. THE CONTRACTOR SHALL MAINTAIN PROOF OF EROSION CONTROL TRAINING AND CERTIFICATION AND SHALL MAKE SUCH **RECORDS AVAILABLE UPON REQUEST.** THE CONTRACTOR SHALL PROVIDE AT LEAST ONE CERTIFIED INSTALLER FOR EACH CONTRACTOR OR SUBCONTRACTOR THAT INSTALLS EROSION CONTROL

PRODUCTS LISTED IN THE PROJECT DESIGN PLANS AND SPECIFICATIONS. PROOF OF TRAINING AND CERTIFICATION SHALL BE MADE AVAILABLE UPON **REQUEST.**

CHAIN OF RESPONSIBILITY

THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION PERMIT AT ALL TIMES UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA. THE CONTRACTOR SHALL DEVELOP A CHAIN OF COMMAND WITH SUBCONTRACTORS ON THE SITE TO ENSURE THAT THE SWPPP WILL BE IMPLEMENTED AND STAY IN EFFECT UNTIL THE CONSTRUCTION PROJECT IS COMPLETE, THE ENTIRE SITE HAS UNDERGONE FINAL STABILIZATION, AND AN NOT HAS BEEN SUBMITTED TO THE MPCA. THE ALATUS DEVELOPMENT HAS ITS OWN CONSTRUCTION PERMITS. CONTRACTORS ARE RESPONSIBLE FOR COMPLIANCE WITH THEIR INDIVIDUAL SWPPP'S AND PERMITS IN SHARED AREAS OF CONSTRUCTION.

PROJECT CONTACTS

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

ORGANIZATION	CONTACT NAME	PHONE
MINNEHAHA CREEK WATERSHED DISTRICT	GABE SHERMAN	952-641-4510
ALATUS, LLC	CHRIS OSMUNDSON	612-455-0712
HDR ENGINEERING, INC.	MICHAEL RYAN	763-591-5440
LOUCKS, INC.	MIKE ST. MARTIN	763-496-6713
CONTRACTOR (TBD)		
MPCA DUTY OFFICER 24-HOUR EMERGENCY NOTIF	ICATION: 651-649-5451 OR 800-422-0798	•

LOCATION OF SWPPP REQUIREMENTS

THE REQUIRED SWPPP ELEMENTS MAY BE LOCATED IN MANY PLACES WITHIN THE PLAN SET, IN THE PROJECT SPECIFICATIONS AND SPECIAL PROVISIONS, OR ON FILE WITH MINNEHAHA CREEK WATERSHED DISTRICT AND HDR ENGINEERING, INC. THE NOTES AND TABLE BELOW ARE INTENDED TO BE A QUICK REFERENCE FOR THE CONTRACTOR AND PROJECT ENGINEER TO USE IN THE FIELD. THERE MAY BE ADDITIONAL REQUIRED SWPPP ELEMENTS INCLUDED ON THE PROJECT THAT ARE NOT LISTED ON THIS SHEET.

LOCATION OF SWPPP REQUIREMENTS IN PROJECT PLAN

TEMPORARY EROSION CONTROL MEASURES	CONTRACT DRAWINGS	
PERMANENT EROSION CONTROL MEASURES	CONTRACT DRAWINGS	
DIRECTION OF FLOW	CONTRACT DRAWINGS	
FINAL STABILIZATION	CONTRACT DRAWINGS	
SOILS AND CONSTRUCTION NOTES	CONTRACT DRAWINGS	
DRAINAGE STRUCTURES	CONTRACT DRAWINGS	
DRAINAGE TABULATION	DESIGN REPORT	
STORM SEWER PROFILES	CONTRACT DRAWINGS	
STORM SEWER TABULATION	CONTRACT DRAWINGS	
EROSION AND SEDIMENT CONTROL DETAILS	CONTRACT DRAWINGS	
EROSION CONTROL TABULATION	CONTRACT DRAWINGS	
TURF ESTABLISHMENT TABULATION	CONTRACT DRAWINGS	
SITE MAP	CONTRACT DRAWINGS	
STORMWATER CALCULATIONS	DESIGN REPORT AND APPENDICES	
WATER RESOURCES NOTES	CONTRACT DRAWINGS	

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

ANDREW F. JUDD, PE

325 BLAKE RD REGIONAL STORMWATER AND GREENWAY

MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343

LICENSE # _____ 47301 DATE XX/XX/XXXX

<u>2</u> "	FILENAME	EC101-103.DWG
]	SCALE	NA

SHEET EC101

SWPPP PLAN

OTHER DRAINAGE SYSTEMS. RESTABILIZE ANY AREAS THAT ARE DISTURBED BY SEDIMENT REMOVAL AND STABILIZATION MUST BE COMPLETED WITHIN 7 DA SITE MANAGEMENT PLAN FOR WORKING IN SURFACE WATERS AS NECESSARY PRIOR TO WORKING IN SURFACE WATERS.	ORARY AND PERMANENT W E FINAL STABILIZATION AN ENT DEPOSITION. INSPECT PERTIES FOR EVIDENCE OF NSTRUCTION CONFORMAN 24 HOURS. SUBMIT INSPE	ATER QUALITY MANAGEME D THE NOT HAS BEEN SUBM CONSTRUCTION SITE VEHIC OFF SITE SEDIMENT ACCUN	ENT, EROSION /IITTED. INSPECT CLE EXIT LOCATIONS FOR	1. INITIATE STABILIZATION IMMEDIATELY WHEN CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED ON ANY PORTION OF THE SITE. COMPLETE STABILIZATION WITHIN THE TIME FRAME LISTED. IN MANY INSTANCES THIS WILL REQUIRE STABILIZATION TO OCCUR MORE THAN ONCE DURING THE COURSE OF THE PROJECT. TEMPORARY SOIL STOCKPILES WITHOUT SIGNIFICANT CLAY OR SILT AND STOCKPILED AND CONSTRUCTED ROAD BASE ARE EXEMPT FROM THE STABILIZATION REQUIREMENT.	
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 DIFFERENTLY BELOW: A. REPAIR, REPLACE, OR SUPPLEMENT PERIMETER CONTROL DEVICES WHEN IT I REACHES 1/2 THE HEIGHT OF THE DEVICE. COMPLETE REPAIRS BY THE END OF DISCOVERY. B. REPAIR OR REPLACE INLET PROTECTION DEVICES WHEN THEY BECOME NONF HEIGHT AND/OR DEPTH OF THE DEVICE. C. DRAIN AND REMOVE SEDIMENT FROM TEMPORARY AND PERMANENT SEDIM COMPLETE WORK WITHIN 72 HOURS OF DISCOVERY. D. REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS INCLU OTHER DRAINAGE SYSTEMS. RESTABILIZE ANY AREAS THAT ARE DISTURBED BY SEDIMENT REMOVAL AND STABILIZATION MUST BE COMPLETED WITHIN 7 DA SITE MANAGEMENT PLAN FOR WORKING IN SURFACE WATERS AS NECESSARY PRIOR TO WORKING IN SURFACE WATERS. E. REMOVE TRACKED SEDIMENT FROM PAVED SURFACES BOTH ON AND OFF SITE 					
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HEIGHT AND/OR DEPTH OF THE DEVICE. C. DRAIN AND REMOVE SEDIMENT FROM TEMPORARY AND PERMANENT SEDIM COMPLETE WORK WITHIN 72 HOURS OF DISCOVERY. D. REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS INCLU OTHER DRAINAGE SYSTEMS. RESTABILIZE ANY AREAS THAT ARE DISTURBED BY SEDIMENT REMOVAL AND STABILIZATION MUST BE COMPLETED WITHIN 7 DA SITE MANAGEMENT PLAN FOR WORKING IN SURFACE WATERS AS NECESSARY PRIOR TO WORKING IN SURFACE WATERS. E. REMOVE TRACKED SEDIMENT FROM PAVED SURFACES BOTH ON AND OFF SIT				GENERAL SWPPP NOTES FOR CONSTRUCTION ACTIVITY	
 D. REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS INCLUON OTHER DRAINAGE SYSTEMS. RESTABILIZE ANY AREAS THAT ARE DISTURBED BY SEDIMENT REMOVAL AND STABILIZATION MUST BE COMPLETED WITHIN 7 DA SITE MANAGEMENT PLAN FOR WORKING IN SURFACE WATERS AS NECESSARY PRIOR TO WORKING IN SURFACE WATERS. E. REMOVE TRACKED SEDIMENT FROM PAVED SURFACES BOTH ON AND OFF SITE 			THE STORAGE VOLUME.	1. AMEND THE SWPPP AND DOCUMENT ANY AND ALL CHANGES TO THE SWPPP AND ASSOCIATED PLAN SHEETS IN A TIMELY MANNER. STORE THE SWPPP AND ALL AMENDMENTS ON SITE AT ALL TIMES.	
Sweet ing mat have to becommone of the to minimize of the immac	D. REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS. RESTABILIZE ANY AREAS THAT ARE DISTURBED BY SEDIMENT REMOVAL OPERATIONS. SEDIMENT REMOVAL AND STABILIZATION MUST BE COMPLETED WITHIN 7 DAYS OF DISCOVERY. PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR WORKING IN SURFACE WATERS AS NECESSARY. CONTACT ALL APPROPRIATE AUTHORITIES PRIOR TO WORKING IN SURFACE WATERS. E. REMOVE TRACKED SEDIMENT FROM PAVED SURFACES BOTH ON AND OFF SITE WITHIN 24 HOURS OF DISCOVERY. STREET			2. PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR THE ENGINEER'S ACCEPTANCE FOR CONCRETE MANAGEMENT, CONCRETE SLURRY APPLICATION AREAS, WORK IN AND NEAR AREAS OF ENVIRONMENTAL SENSITIVITY, AREAS IDENTIFIED IN THE PLANS AS "SITE MANAGEMENT PLAN AREA", ANY WORK THAT WILL REQUIRE DEWATERING, AND AS REQUESTED BY THE ENGINEER. SUBMIT ALL SITE MANAGEMENT PLANS TO THE ENGINEER IN WRITING. ALLOW A MINIMUM OF 7 DAYS FOR THE OWNER TO REVIEW AND ACCEPT SITE MANAGEMENT PLAN SUBMITTALS. WORK WILL NOT BE ALLOWED TO COMMENCE IF A SITE MANAGEMENT PLAN IS REQUIRED UNTIL ACCEPTANCE HAS BEEN GRANTED BY THE ENGINEER. THERE WILL BE NO EXTRA TIME ADDED TO THE CONTRACT DUE TO THE UNTIMELY SUBMITTAL.	
SWEEPING. F. MAINTAIN ALL BMPS UNTIL WORK HAS BEEN COMPLETED, SITE HAS GONE UN REEN SURMITTED TO THE MACA			MINATION (NOT) HAS	3. IT IS THE DESIGNER'S INTENT THAT THE CONTRACTOR CONSTRUCT PONDS AND SIMILAR BMPs AND PLACE EROSION CONTROL BMPs AND STABILIZATION MEASURES BEFORE PUTTING THEM INTO ACTIVE SERVICE TO THE MAXIMUM EXTENT PRACTICABLE.	
BEEN SUBMITTED TO THE MPCA.				4. BURNING OF ANY MATERIAL IS NOT ALLOWED WITHIN PROJECT BOUNDARY.	
ENVIRONMENTAL REVIEW STORMWATER IS PROHIBITED FROM MIXING WITH CONTAMINATED SOILS AS IN STORMWATER MITIGATION MEASURES REQUIRED AS A RESULT OF ENVIRONME			THERE ARE NO FURTHER	5. DO NOT DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS. DELINEATE AREAS NOT TO BE DISTURBED PRIOR TO STARTING GROUND DISTURBING ACTIVITIES. IF IT BECOMES NECESSARY TO DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS OBTAIN WRITTEN PERMISSION FROM THE PROJECT ENGINEER PRIOR TO PROCEEDING. PRESERVE ALL NATURAL BUFFERS SHOWN ON THE PLANS.	
THE PROJECT IS NOT LOCATED IN A WELLHEAD PROTETECTION AREA (WHPA) O	R A DRINKING WATER SUP	PLY MANAGEMENT AREA (D	DWSMA).	6. ROUTE STORMWATER AROUND UNSTABILIZED AREAS OF THE SITE WHENEVER FEASIBLE. PROVIDE EROSION CONTROL AND VELOCITY DISSIPATION DEVICES	
LAND FEATURE CHANGES (ACRES)				AS NEEDED TO KEEP CHANNELS FROM ERODING AND TO PREVENT NUISANCE CONDITIONS AT THE OUTLET.	
LAND FEATURE INFORMATIONPUBLIC RESIZE OF SITE3.78		MIXED-USE DEVELOPMENT 13.06	Г	7. DIRECT DISCHARGES FROM BMPs TO VEGETATED AREAS WHENEVER FEASIBLE. PROVIDE VELOCITY DISSIPATION DEVICES AS NEEDED TO PREVENT EROSION.	
TOTAL DISTURBED AREA3.47		13.06		8. THE EROSION PREVENTION AND SEDIMENT CONTROL BMPs SHALL BE PLACED AS NECESSARY TO MINIMIZE EROSION FROM DISTURBED SURFACES AND TO	
TOTAL EXISTING IMPERVIOUS SURFACE AREA 1.37		10.63		CAPTURE SEDIMENT ON SITE. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF ANY REMOVAL WORK AND/OR GROUND	
TOTAL IMPERVIOUS SURFACE AREA0.15TOTAL PROPOSED NET CHANGE IN IMPERVIOUS AREA(-) 1.22		9.15 (-) 1.48		DISTURBING ACTIVITIES.	
STABILIZATION TIME FRAMES		(-) 1.40		9. ESTABLISH SEDIMENT CONTROL DEVICES ON ALL DOWN GRADIENT PERIMETERS AND UPGRADIENT OF ANY BUFFER ZONES BEFORE ANY UP GRADIENT LAND DISTURBING ACTIVITIES BEGIN. MAINTAIN SEDIMENT CONTROL DEVICES UNTIL CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.	
		NOTEC		10. LOCATE PERIMETER CONTROLS ON THE CONTOUR TO CAPTURE OVERLAND, LOW-VELOCITY SHEET FLOWS DOWN-GRADIENT OF ALL EXPOSED SOILS AND	
		NOTES 1, 2, 3		PRIOR TO DISCHARGING TO SURFACE WATERS. PLACE J-HOOKS AT A MAXIMUM OF 100 FOOT INTERVALS.	
	R PROPERTY EDGE	1, 3		11. PROVIDE PERIMETER CONTROL AROUND ALL STOCKPILES. PLACE BMP A MINIMUM 5 FEET FROM THE TOE OF SLOPE WHERE FEASIBLE. DO NOT PLACE STOCKPILES IN NATURAL BUFFER AREAS, SURFACE WATERS OR STORMWATER CONVEYANCES.	
PIPE AND CULVERT OUTLETS 24 HOURS	5				
EXPOSED SOILS AND STOCKPILES 7 DAYS	、	1		12. FLOATING SILT CURTAIN IS ALLOWED AS PERIMETER CONTROL FOR IN WATER WORK ONLY. PLACE THE FLOATING SILT CURTAIN AS CLOSE TO SHORE AS	
WITHIN 200 FEET OF A PUBLIC WATEK 24 HOURS	WITHIN 200 FEET OF A PUBLIC WATER24 HOURS7		I	DOCCIDED DE ACCIDEDINACTED CONTROL DAAD ON LAND INANACDIATELY ACTEDITIE IN WATED WORK IS CONADUCTED	
		7		POSSIBLE. PLACE PERIMETER CONTROL BMP ON LAND IMMEDIATELY AFTER THE IN WATER WORK IS COMPLETED.	

1	2	3	4 5 6 7 8		
SITE INSPECTION AND MAINTENANCE			1. INITIATE STABILIZATION IMMEDIATELY WHEN CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED ON ANY PORTION OF THE SITE. COMPLETE		
			STABILIZATION WITHIN THE TIME FRAME LISTED. IN MANY INSTANCES THIS WILL REQUIRE STABILIZATION TO OCCUR MORE THAN ONCE DURING THE		
NSPECT THE ENTIRE CONSTRUCTION SITE A MINIMUM OF ON			COURSE OF THE PROJECT. TEMPORARY SOIL STOCKPILES WITHOUT SIGNIFICANT CLAY OR SILT AND STOCKPILED AND CONSTRUCTED ROAD BASE ARE EXEMPT		
RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. IN			FROM THE STABILIZATION REQUIREMENT.		
PREVENTION AND SEDIMENT CONTROL BMPs UNTIL THE SITE SURFACE WATER INCLUDING FLOW PATHS FOR SIGNS OF ERO					
EVIDENCE OF TRACKING ONTO PAVED SURFACES. INSPECT SU			2. STABILIZE WETTED PERIMETER OF DITCHES AND SWALES (I.E., WHERE THE DITCH GETS WET).		
STORMWATER BMPs FOR SIGNS OF SEDIMENT DEPOSITION, C			3. APPLICATION OF MULCH, HYDROMULCH, TACKIFIER AND POLYACRYLAMIDE ARE NOT ACCEPTABLE STABILIZATION METHODS IN THESE AREAS.		
RECORD ALL INSPECTIONS AND MAINTENANCE ACTIVITIES IN	WRITING WITHIN 24 HOURS. SUBMIT IN	SPECTION REPORTS IN A FORMAT THAT IS ACCEPTABLE	4. STABILIZE ALL AREAS OF THE SITE PRIOR TO THE ONSET OF WINTER WHERE CONSTRUCTION WILL NOT RESUME. ANY WORK STILL BEING PERFORMED		
TO THE PROJECT OWNER AND ENGINEER. INCLUDE THE FOLL			SHALL BE SNOW MULCHED, SEEDED, AND BLANKETED UPON COMPLETION OF LAND DISTURBANCE WITHIN THE TIME FRAMES DESCRIBED IN THE NPDES		
A. DATE AND TIME OF INSPECTIONS			PERMIT.		
. NAME OF PERSONS CONDUCTING INSPECTIONS					
. FINDINGS OF INSPECTIONS, INCLUDING RECOMMENDATIO			5. TOPSOIL BERMS MUST BE STABILIZED IN ORDER TO BE CONSIDERED PERIMETER CONTROL BMPs. USE RAPID STABILIZATION METHODS CONSISTENT WITH		
CORRECTIVE ACTIONS TAKEN, INCLUDING DATES, TIMES, A		ACTIVITIES	STATE OF MINNESOTA SPECIFICATIONS AND AS APPROVED BY THE ENGINEER.		
. DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER TH	AN 0.5 INCHES IN 24 HOURS		6. KEEP DITCHES AND EXPOSED SOILS IN AN EVEN ROUGH GRADED CONDITION IN ORDER TO BE ABLE TO APPLY EROSION CONTROL MULCHES,		
DOCUMENTS ADDED AND CHANGES MADE TO THE SWPPP			HYDROMULCHES, AND EROSION CONTROL BLANKETS.		
EPLACE, REPAIR OR SUPPLEMENT ALL NONFUNCTIONAL BMI	Ps BY THE END OF THE NEXT BUSINESS I	DAY FOLLOWING DISCOVERY UNLESS LISTED	7. MNDNR LISTS PUBLIC WATER (I.E., MINNEHAHA CREEK) WORK-IN-WATER EXCLUSION DATES BETWEEN MARCH 15 AND JUNE 15. THE CONTRACTOR SHALL		
DIFFERENTLY BELOW:			COMPLY WITH ALL MNDNR GENERAL PUBLIC WATERS WORK PERMIT REQUIREMENTS AS APPLICABLE. STABILIZE ALL EXPOSED SOILS WITHIN 200 FEET OF THE		
A. REPAIR, REPLACE, OR SUPPLEMENT PERIMETER CONTROL D			WATER'S EDGE WITHIN 24 HOURS DURING THE RESTRICTION PERIOD.		
REACHES 1/2 THE HEIGHT OF THE DEVICE. COMPLETE REPAI DISCOVERY.	KS BY THE END OF THE NEXT BUSINESS	DAY FULLOWING			
. REPAIR OR REPLACE INLET PROTECTION DEVICES WHEN TH	EY BECOME NONFUNCTIONAL OR SEDI	MENT REACHES 1/2 THE	GENERAL SWPPP NOTES FOR CONSTRUCTION ACTIVITY		
HEIGHT AND/OR DEPTH OF THE DEVICE.			1. AMEND THE SWPPP AND DOCUMENT ANY AND ALL CHANGES TO THE SWPPP AND ASSOCIATED PLAN SHEETS IN A TIMELY MANNER. STORE THE SWPPP		
. DRAIN AND REMOVE SEDIMENT FROM TEMPORARY AND P	ERMANENT SEDIMENT BASINS ONCE TH	E SEDIMENT HAS REACHED 1/2 THE STORAGE VOLUME.	AND ALL AMENDMENTS ON SITE AT ALL TIMES.		
OMPLETE WORK WITHIN 72 HOURS OF DISCOVERY.					
D. REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFA	CE WATERS INCLUDING DRAINAGE WAY	YS, CATCH BASINS, AND	2. PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR THE ENGINEER'S ACCEPTANCE FOR CONCRETE MANAGEMENT, CONCRETE SLURRY APPLICATION		
OTHER DRAINAGE SYSTEMS. RESTABILIZE ANY AREAS THAT			AREAS, WORK IN AND NEAR AREAS OF ENVIRONMENTAL SENSITIVITY, AREAS IDENTIFIED IN THE PLANS AS "SITE MANAGEMENT PLAN AREA", ANY WORK		
SEDIMENT REMOVAL AND STABILIZATION MUST BE COMPLE			THAT WILL REQUIRE DEWATERING, AND AS REQUESTED BY THE ENGINEER. SUBMIT ALL SITE MANAGEMENT PLANS TO THE ENGINEER IN WRITING. ALLOW A		
SITE MANAGEMENT PLAN FOR WORKING IN SURFACE WATERS AS NECESSARY. CONTACT ALL APPROPRIATE AUTHORITIES		OPRIATE AUTHORITIES	MINIMUM OF 7 DAYS FOR THE OWNER TO REVIEW AND ACCEPT SITE MANAGEMENT PLAN SUBMITTALS. WORK WILL NOT BE ALLOWED TO COMMENCE IF A		
PRIOR TO WORKING IN SURFACE WATERS. E. REMOVE TRACKED SEDIMENT FROM PAVED SURFACES BOTH ON AND OFF SITE WITHIN 24 HOURS OF DISCOVERY. STREET			SITE MANAGEMENT PLAN IS REQUIRED UNTIL ACCEPTANCE HAS BEEN GRANTED BY THE ENGINEER. THERE WILL BE NO EXTRA TIME ADDED TO THE CONTRACT DUE TO THE UNTIMELY SUBMITTAL.		
SWEEPING MAY HAVE TO OCCUR MORE OFTEN TO MINIMIZ					
SWEEPING.			3. IT IS THE DESIGNER'S INTENT THAT THE CONTRACTOR CONSTRUCT PONDS AND SIMILAR BMPS AND PLACE EROSION CONTROL BMPS AND STABILIZATION		
. MAINTAIN ALL BMPs UNTIL WORK HAS BEEN COMPLETED,	SITE HAS GONE UNDER FINAL STABILIZA	TION, AND THE NOTICE OF TERMINATION (NOT) HAS	MEASURES BEFORE PUTTING THEM INTO ACTIVE SERVICE TO THE MAXIMUM EXTENT PRACTICABLE.		
BEEN SUBMITTED TO THE MPCA.					
ENVIRONMENTAL REVIEW			4. BURNING OF ANY MATERIAL IS NOT ALLOWED WITHIN PROJECT BOUNDARY.		
			5. DO NOT DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS. DELINEATE AREAS NOT TO BE DISTURBED PRIOR TO STARTING GROUND DISTURBING		
STORMWATER IS PROHIBITED FROM MIXING WITH CONTAMI	NATED SOILS AS IDENTIFIED THROUGH	STUDIES AND INVESTIGATIONS. THERE ARE NO FURTHER	ACTIVITIES. IF IT BECOMES NECESSARY TO DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS OBTAIN WRITTEN PERMISSION FROM THE PROJECT		
STORMWATER MITIGATION MEASURES REQUIRED AS A RESU	LT OF ENVIRONMENTAL, ARCHAELOGIC	AL, OR AGENCY REVIEW.	ENGINEER PRIOR TO PROCEEDING. PRESERVE ALL NATURAL BUFFERS SHOWN ON THE PLANS.		
THE PROJECT IS NOT LOCATED IN A WELLHEAD PROTETECTION	N AREA (WHPA) OR A DRINKING WATER	SUPPLY MANAGEMENT AREA (DWSMA).	6. ROUTE STORMWATER AROUND UNSTABILIZED AREAS OF THE SITE WHENEVER FEASIBLE. PROVIDE EROSION CONTROL AND VELOCITY DISSIPATION DEVICES		
AND FEATURE CHANGES (ACRES)			AS NEEDED TO KEEP CHANNELS FROM ERODING AND TO PREVENT NUISANCE CONDITIONS AT THE OUTLET.		
			7. DIRECT DISCHARGES FROM BMPs TO VEGETATED AREAS WHENEVER FEASIBLE. PROVIDE VELOCITY DISSIPATION DEVICES AS NEEDED TO PREVENT		
LAND FEATURE INFORMATION	PUBLIC REALM	MIXED-USE DEVELOPMENT	EROSION.		
SIZE OF SITE TOTAL DISTURBED AREA	3.78 3.47	13.06 13.06			
TOTAL EXISTING IMPERVIOUS SURFACE AREA	1.37	10.63	8. THE EROSION PREVENTION AND SEDIMENT CONTROL BMPs SHALL BE PLACED AS NECESSARY TO MINIMIZE EROSION FROM DISTURBED SURFACES AND TO		
TOTAL IMPERVIOUS SURFACE AREA	0.15	9.15	CAPTURE SEDIMENT ON SITE. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF ANY REMOVAL WORK AND/OR GROUND DISTURBING ACTIVITIES.		
TOTAL PROPOSED NET CHANGE IN IMPERVIOUS AREA	(-) 1.22	(-) 1.48			
			9. ESTABLISH SEDIMENT CONTROL DEVICES ON ALL DOWN GRADIENT PERIMETERS AND UPGRADIENT OF ANY BUFFER ZONES BEFORE ANY UP GRADIENT		
STABILIZATION TIME FRAMES			LAND DISTURBING ACTIVITIES BEGIN. MAINTAIN SEDIMENT CONTROL DEVICES UNTIL CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.		
			10. LOCATE PERIMETER CONTROLS ON THE CONTOUR TO CAPTURE OVERLAND, LOW-VELOCITY SHEET FLOWS DOWN-GRADIENT OF ALL EXPOSED SOILS AND		
AREA LAST 200 FEET OF DRAINAGE DITCH OR SWALE		NOTES 1, 2, 3	PRIOR TO DISCHARGING TO SURFACE WATERS. PLACE J-HOOKS AT A MAXIMUM OF 100 FOOT INTERVALS.		
LAJT ZUU FLET UF UNAINAGE UTTUM UK SWALE	WITHIN 24 HOURS OF CONNECTION TO SURFACE				
	WATER OR PROPERTY EDGE		11. PROVIDE PERIMETER CONTROL AROUND ALL STOCKPILES. PLACE BMP A MINIMUM 5 FEET FROM THE TOE OF SLOPE WHERE FEASIBLE. DO NOT PLACE		
REMAINING PORTIONS OF DRAINAGE DITCH OR SWALE	7 DAYS	1, 3	STOCKPILES IN NATURAL BUFFER AREAS, SURFACE WATERS OR STORMWATER CONVEYANCES.		
PIPE AND CULVERT OUTLETS	24 HOURS				
EXPOSED SOILS AND STOCKPILES	7 DAYS		12. FLOATING SILT CURTAIN IS ALLOWED AS PERIMETER CONTROL FOR IN WATER WORK ONLY. PLACE THE FLOATING SILT CURTAIN AS CLOSE TO SHORE AS		
WITHIN 200 FEET OF A PUBLIC WATER	24 HOURS	7	POSSIBLE. PLACE PERIMETER CONTROL BMP ON LAND IMMEDIATELY AFTER THE IN WATER WORK IS COMPLETED.		
			13. DITCH CHECKS AND SLOPE BREAKS SHALL BE PLACED AS INDICATED ON THE PLANS DURING ALL PHASES OF CONSTRUCTION.		





			PROJECT MANAGER	ANDREW F. JUDD
C	03/28/2023	100% DESIGN		
В	09/14/2022	90% DESIGN		
Α	06/13/2022	PFA GRANT PACKAGE		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10268112

4	5	6

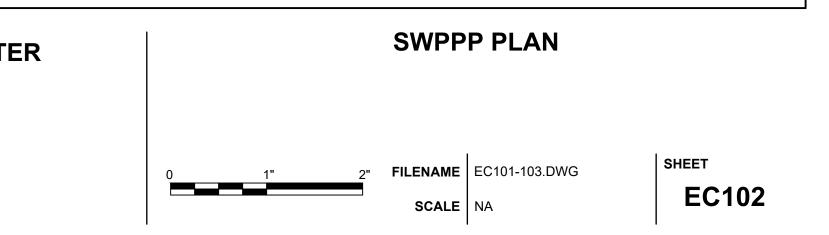
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

ANDREW F. JUDD, PE

DATE XX/XX/XXXX LICENSE # 47301

325 BLAKE RD REGIONAL STORMWATER AND GREENWAY

MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343



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14. PROTECT STORM SEWER INLETS AT ALL TIMES WITH THE APPROPRIATE INLET PROTECTION FOR EACH SPECIFIC PHASE OF CONSTRUCTION. PROVIDE INLET PROTECTION DEVICES WITH EMERGENCY OVERFLOW CAPABILITIES. SILT FENCE PLACED IN THE INLET GRATE IS NOT AN ACCEPTABLE INLET PROTECTION BMP FOR GRADING OPERATIONS. SILT FENCE PLACED IN THE GRATE IS ONLY ALLOWED FOR SHORT INTERVALS DURING MILLING OR PAVING OPERATIONS. INLET PROTECTION DEVICES MAY NEED TO BE PLACED MULTIPLE TIMES IN THE SAME LOCATION OVER THE LIFE OF THE CONTRACT. INLET PROTECTION DEVICES WILL BE PAID FOR ONCE PER INLET REGARDLESS OF THE NUMBER OF TIMES THE BMP IS PLACED. KEEP ALL STORM SEWER INLET PROTECTION DEVICES IN GOOD FUNCTIONAL CONDITION AT ALL TIMES. REPLACE INLET PROTECTION DEVICE WITH A SUITABLE ALTERNATIVE IF THE PROJECT ENGINEER DEEMS AN INLET PROTECTION DEVICE TO BE NONFUNCTIONAL, IN POOR CONDITION, INEFFECTIVE, OR NOT APPROPRIATE FOR THE CURRENT CONSTRUCTION ACTIVITIES. THERE WILL BE NO COST TO MINNEHAHA CREEK WATERSHED DISTRICT FOR REPLACEMENT OF INLET PROTECTION DEVICES.

15. PLACE CONSTRUCTION EXITS, AS NECESSARY, TO PREVENT TRACKING OF SEDIMENT ONTO PAVED SURFACES BOTH ON AND OFF THE PROJECT SITE. PROVIDE CONSTRUCTION EXITS OF SUFFICIENT SIZE TO PREVENT TRACK OUT. MAINTAIN CONSTRUCTION EXITS WHEN EVIDENCE OF TRACKING IS DISCOVERED. REGULAR STREET SWEEPING IS NOT AN ACCEPTABLE ALTERNATIVE TO PROPER CONSTRUCTION EXIT INSTALLATION AND MAINTENANCE.

16. DISCHARGE TURBID OR SEDIMENT LADEN WATER TO TEMPORARY SEDIMENT BASINS WHENEVER FEASIBLE. IN THE EVENT THAT IT IS NOT FEASIBLE TO DISCHARGE THE SEDIMENT LADEN WATER TO A TEMPORARY SEDIMENT BASIN, THE WATER MUST BE TREATED SO THAT IT DOES NOT CAUSE A NUISANCE CONDITION IN THE RECEIVING WATERS OR TO DOWNSTREAM LANDOWNERS. CLEAN OUT ALL PERMANENT STORMWATER BASINS REGARDLESS OF WHETHER USED AS TEMPORARY SEDIMENT BASINS OR TEMPORARY SEDIMENT TRAPS TO THE DESIGN CAPACITY AFTER ALL UPGRADIENT LAND DISTURBING ACTIVITY IS COMPLETED.

17. PROVIDE SCOUR PROTECTION AT ANY OUTFALL OF DEWATERING ACTIVITIES.

18. PROVIDE STABILIZATION IN ANY TRENCHES CUT FOR DEWATERING OR SITE DRAINING PURPOSES.

19. REMOVE SEDIMENT FROM STORMWATER SYSTEMS AT THE END OF PROJECT.

20. PRESERVE A MINIMUM OF 100 FOOT NATURAL BUFFER OR (IF BUFFER IS INFEASIBLE) PROVIDE REDUNDANT SEDIMENT CONTROLS WHEN A SURFACE WATER IS LOCATED WITHIN 100 FEET OF LAND DISTURBANCE AND STORMWATER FLOWS TO THE SURFACE WATER.

POLLUTION PREVENTION

1. PROVIDE A SPILL KIT AT EACH WORK LOCATION ON THE SITE.

2. STORE ALL BUILDING MATERIALS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS, PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS, TREATMENT CHEMICALS, AND LANDSCAPE MATERIALS UNDER COVER AND WITH SECONDARY CONTAINMENT.

3. PROVIDE A SECURE STORAGE AREA WITH RESTRICTED ACCESS FOR ALL HAZARDOUS MATERIALS AND TOXIC WASTE. RETURN ALL HAZARDOUS MATERIALS AND TOXIC WASTE TO THE DESIGNATED STORAGE AREA AT THE END OF THE BUSINESS DAY UNLESS INFEASIBLE. STORE ALL HAZARDOUS MATERIALS AND TOXIC WASTE (INCLUDING BUT NOT LIMITED TO OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT, PETROLEUM BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) IN SEALED CONTAINERS WITH SECONDARY CONTAINMENT. CLEAN UP SPILLS IMMEDIATELY.

4. STORE, COLLECT AND DISPOSE OF ALL SOLID WASTE.

5. POSITION ALL PORTABLE TOILETS SO THAT THEY ARE SECURE AND CANNOT BE TIPPED OR KNOCKED OVER. PROPERLY DISPOSE OF ALL SANITARY WASTE.

6. FUEL AND MAINTAIN VEHICLES IN A DESIGNATED CONTAINED AREA WHENEVER FEASIBLE. USE DRIP PANS OR ABSORBENT MATERIALS TO PREVENT SPILLS OR LEAKED CHEMICALS FROM DISCHARGING TO SURFACE WATER OR STORMWATER CONVEYANCES. PROVIDE A SPILL KIT AT EACH LOCATION THAT VEHICLES AND EQUIPMENT ARE FUELED OR MAINTAINED AT.

7. LIMIT VEHICLE AND EQUIPMENT WASHING TO A DEFINED AREA OF THE SITE. CONTAIN RUNOFF FROM THE WASHING AREA TO A TEMPORARY SEDIMENT BASIN OR OTHER EFFECTIVE CONTROL. PROPERLY DISPOSE OF ALL WASTE GENERATED BY VEHICLE AND EQUIPMENT WASHING. ENGINE DEGREASING IS NOT ALLOWED ON THE SITE.

8. PROVIDE EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS. LIQUID AND SOLID WASHOUT WASTES MUST NOT CONTACT THE GROUND. DESIGN THE CONTAINMENT SO THAT IT DOES NOT RESULT IN RUNOFF FROM THE WASHOUT OPERATIONS OR CONTAINMENT AREA.

9. CREATE AND FOLLOW A WRITTEN DISPOSAL PLAN FOR ALL WASTE MATERIALS. INCLUDE IN THE PLAN HOW THE MATERIAL WILL BE DISPOSED OF AND THE LOCATION OF THE DISPOSAL SITE. SUBMIT PLAN TO THE ENGINEER.

10. USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT DISCHARGE OR PLACEMENT OF BITUMINOUS GRINDINGS, CUTTINGS, MILLINGS, AND OTHER BITUMINOUS WASTES FROM AREAS OF EXISTING OR FUTURE VEGETATED SOILS AND FROM ALL WATER CONVEYANCE SYSTEMS, INCLUDING INLETS, DITCHES AND CURB FLOW LINES.

11. USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT CONCRETE DUST, PARTICLES, CONCRETE WASH OUT, AND OTHER CONCRETE WASTES FROM LEAVING CONSTRUCTION LIMITS, DEPOSITING IN EXISTING OR FUTURE VEGETATED AREAS, AND FROM ENTERING STORMWATER CONVEYANCE SYSTEMS, INCLUDING INLETS, DITCHES AND CURB FLOW LINES. USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT SAW CUT SLURRY AND PLANING WASTE FROM LEAVING CONSTRUCTION LIMITS AND FROM ENTERING STORMWATER CONVEYANCE SYSTEMS INCLUDING PONDS, DITCHES, AND CULVERTS.



WATERSHED DISTRICT



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WATER RESOURCES AND SOIL NOTES

THESE NOTES, ALONG WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE, ARE INTENDED TO PROVIDE INFORMATION ON CRITICAL DRAINAGE FEATURES, NATURAL RESOURCES, AND CONTRACTOR OPERATIONS THAT MAY IMPACT DRAINAGE AND NATURAL RESOURCES.

1. THE SIZE AND ELEVATION OF CULVERTS, STORM SEWER PIPES, CATCH BASINS, PONDS, STORMWATER PONDS AND BMPS, PERMEABLE DITCH CHECKS AND SLOPE BREAKS, AND OVERFLOW DEVICES HAVE BEEN SPECIFICALLY DESIGNED TO CONFORM TO MINNEHAHA CREEK WATERSHED DISTRICT, MINNESOTA POLLUTION CONTROL AGENCY, AND CITY OF HOPKINS PERMIT REQUIREMENTS. THE DESIGN COMPUTATIONS ARE ON FILE WITH HDR ENGINEERING, INC. CHANGING THESE ITEMS OR THE DIRECTION OF FLOW FROM WHAT IS SHOWN ON THE PLANS MAY CAUSE PROBLEMS THAT RESULT IN THE PROJECT BECOMING OUT OF COMPLIANCE WITH APPROVED PERMITS. ANY CHANGES TO THE SIZE, ELEVATION, OR DIRECTION OF FLOW OF THE DRAINAGE SYSTEMS MUST BE APPROVED BY THE ENGINEER.

2. TILL SUBGRADE TO A MINIMUM DEPTH OF 4 INCHES. REMOVE STONES LARGER THAN 6 INCHES IN ANY DIMENSION, ALONG WITH STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER. APPLY AND MIX UNAMENDED SOIL AND AMENDMENTS (AS REQUIRED PER TESTING) CONSISTENT WITH SECTION 32 91 13 OF THE PROJECT SPECIFICATIONS. COMPACT EACH BLENDED LIFT OF PLANTING SOIL TO 75 TO 82 PERCENT OF MAXIMUM STANDARD PROCTOR DENSITY ACCORDING TO ASTM D 698 UNLESS OTHERWISE INDICATED. TEST COMPACTION AFTER PLACING EACH LIFT USING A DENSITOMETER OR SOIL-COMPACTING METER CALIBRATED TO A REFERENCED TEST VALUE IN ACCORDANCE WITH ASTM D 698. GRADE PLANTING SOIL TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET GRADE. PROTECT IN-PLACE AND GRADED SOIL FROM ADDITIONAL COMPACTION, EXCEPT AS REQUIRED TO PERFORM PLANTING OPERATIONS. IF PLANTING SOIL OR SUBGRADE IS OVERCOMPACTED, DISTURBED, OR CONTAMINATED, REMOVE THE SOIL AND RESTORE AS DIRECTED BY THE LANDSCAPE ARCHITECT. REPLACE AS NECESSARY.

3. PROVIDE TOPSOIL FOR ALL DISTURBED AREAS TO BE RESTORED TO VEGETATED SPACE IN ACCORDANCE WITH THE PROJECT DESIGN PLANS AND SPECIFICAITONS. STRIP EXISTING TOPSOIL TO DEPTHS ENCOUNTERED OR AS SPECIFIED WITHIN THE SOILS REPORT, TO A MINIMUM OF 4 INCHES. REMOVE HEAVY GROWTHS OF GRASS BEFORE STRIPPING. STOP TOPSOIL STRIPPING SUFFICIENT DISTANCE FROM TREES TO PREVENT DAMAGE TO ROOT SYSTEMS. SEPARATE TOPSOIL FROM UNDERLYING SUBSOIL OR OBJECTIONABLE MATERIAL. EXISTING TOPSOIL SHALL BE PRESERVED TO BE USED ON SITE, OR REPLACED OR SUPPLEMENTED AS NECESSARY, SUCH THAT A TOPSOIL DEPTH OF AT LEAST 4 INCHES IS PROVIDED IN ALL AREAS TO BE REVEGETATED. PLACE TOPSOIL IN A SINGLE UNCOMPACTED LAYER AND HAND-GRADE TO REQUIRED FINISH ELEVATIONS.

4. AMEND PLANTING SOIL BY BLENDING PRESERVED OR IMPORTED UNAMENDED SOILS WITH THE SOIL AMENDMENTS AND FERTILIZERS (PER TESTING) AS DESCRIBED IN SPECIFICATION SECTION 32 91 13.

5. PERFORM POST INSTALLATION MANDREL TESTING OF ALL PLASTIC PIPE.

6. ANY UNKNOWN SUBSURFACE DRAINAGE SYSTEMS ENCOUNTERED DURING CONSTRUCTION SHALL BE MAINTAINED UNTIL REVIEWED BY THE ENGINEER. IF DAMAGED, THEY SHALL BE REPAIRED, REPLACED OR REROUTED, AND CONNECTED TO A FUNCTIONING DRAINAGE SYSTEM OR DISCHARGED IN ACCORDANCE WITH ALL STATE AND LOCAL REQUIREMENTS. WORK SHALL BE COORDINATED WITH, AND IS SUBJECT TO APPROVAL FROM, THE ENGINEER.

7. THE FOLLOWING WATER RELATED PERMITS APPLY TO THIS PROJECT, AT A MINIMUM:

AGENCY	TYPE OF PERMIT
MINNESOTA POLLUTION CONTROL AGENCY	NPDES CONSTRUCTION PERMIT *
MINNESOTA DEPARTMENT OF NATURAL RESOURCES	PUBLIC WATERS WORK PERMIT
MINNESOTA DEPARTMENT OF NATURAL RESOURCES	WATER APPROPRIATIONS PERMIT **
U.S. ARMY CORPS OF ENGINEERS (USACE)	SECTION 404 (WETLANDS) PERMIT ***

* THE PROPOSED STORMWATER POND WILL TREAT STORMWATER RUNOFF FROM REGIONAL SUBWATERSHEDS, THE PUBLIC REALM DEVELOPMENT, AND THE MIXED-USE DEVELOPMENT.

** TEMPORARY DEWATERING ACTIVITIES MAY BE REQUIRED DURING CONSTRUCTION. A PERMIT FOR THE TEMPORARY APPROPRIATION OF WATERS OF THE STATE, NON-IRRIGATION FROM MNDNR MAY BE REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THIS PERMIT PRIOR TO COMMENCING DEWATERING ACTIVITIES. ALL TEMPORARY DEWATERING SHALL BE DISCHARGED TO AN APPROVED LOCATION FOR TREATMENT PRIOR TO DISCHARGE TO RECEIVING WATERS. THE CONTRACTOR SHALL SUBMIT A SITE MANAGEMEN TPLAN TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK. *** NO WETLAND IMPACTS ARE ANTICIPATED AT THIS TIME. IF WETLAND IMPACTS OCCUR, SECTION 404 PERMITTING WILL BE NECESSARY.

8. NON-TROUT STREAMS (I.E., MINNEHAHA CREEK) HAVE WORK IN WATER EXCLUSIONS. NO WORK IN THE WATER IS ALLOWED DURING THE EXCLUSION DATES BETWEEN MARCH 15 AND JUNE 15. SEE MNDNR GENERAL PUBLIC WATERS WORK PERMIT FOR MORE INFORMATION.

PERMIT TERMINATION CONDITIONS

THE FOLLOWING CONDITIONS MUST BE MET FOR NPDES PERMIT TERMINATION.

1. UNIFORM PERENNIAL VEGETATIVE COVER AT LEAST 70% DENSITY OF THE EXPECTED FINAL GROWTH HAS BEEN ESTABLISHED.

THE PERMANENT STORMWATER TREATMENT SYSTEM IS CONSTRUCTED, MEETS ALL REQUIREMENTS, AND IS OPERATING AS DESIGNED.

3. ALL TEMPORARY SYNTHETIC EROSION AND SEDIMENT CONTROL BMPs HAVE BEEN REMOVED FROM THE SITE.

4. ALL SEDIMENT HAS BEEN CLEANED OUT FROM CONVEYANCE SYSTEMS AND PERMANENT STORMWATER TREATMENT SYSTEMS.

5. A NOTICE OF TERMINATION HAS BEEN SUBMITTED TO MPCA.

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

ANDREW F. JUDD, PE

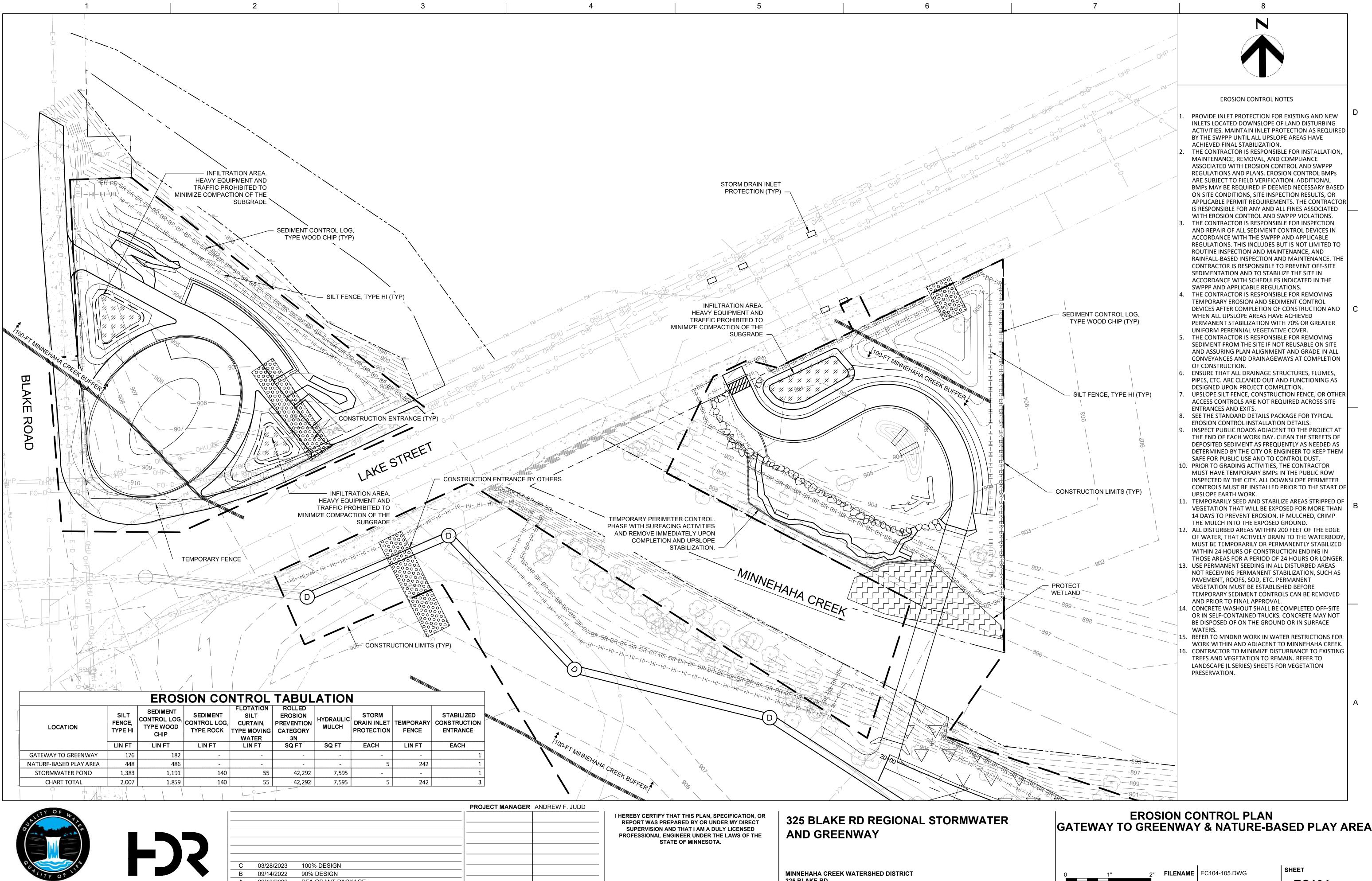
325 BLAKE RD REGIONAL STORMWAT AND GREENWAY

MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343

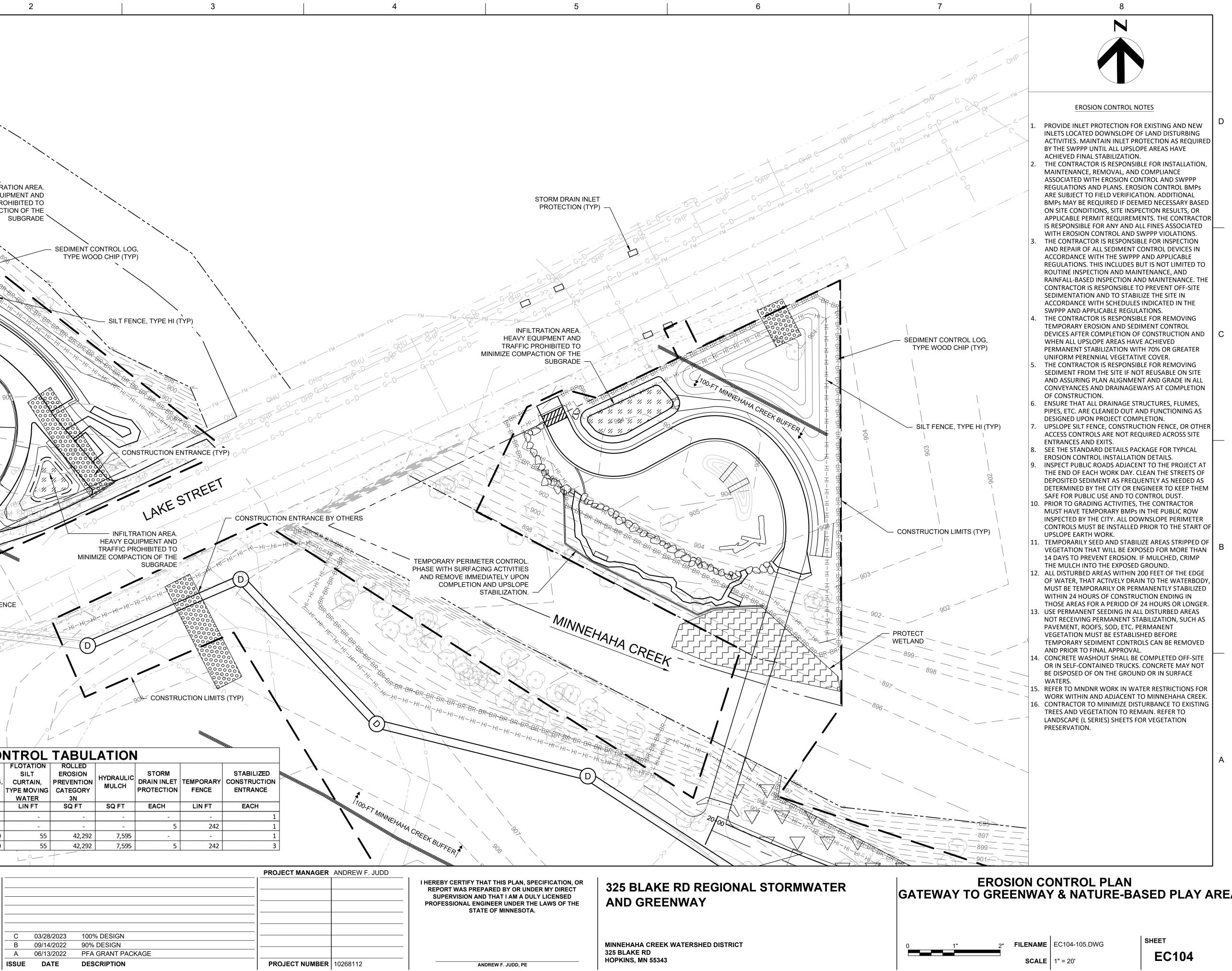
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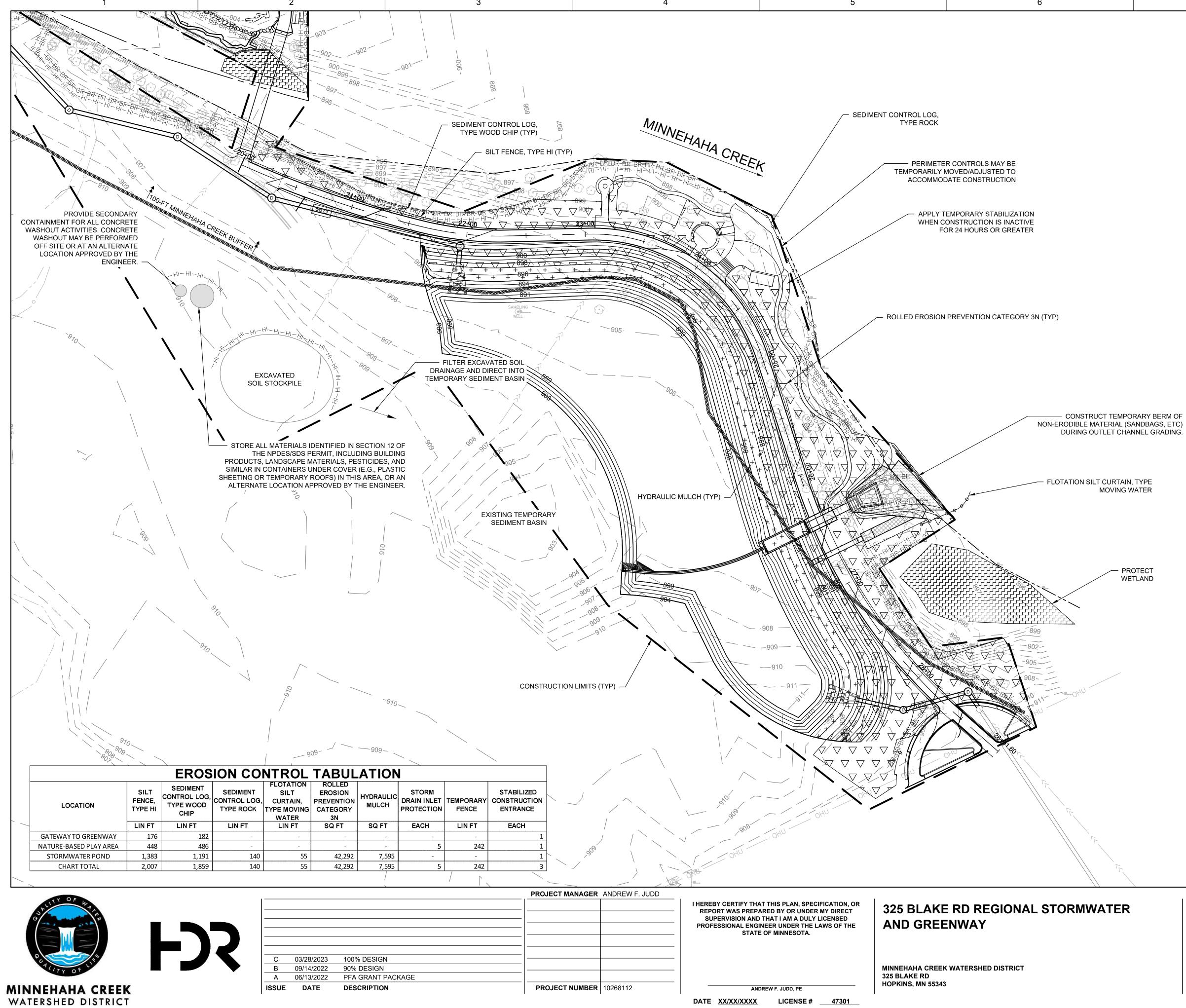
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LICENSE # 47301





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 EROSION CONTROL NOTES PROVIDE INLET PROTECTION FOR EXISTING AND NEW INLETS LOCATED DOWNSLOPE OF LAND DISTURBING ACTIVITIES. MAINTAIN INLET PROTECTION AS REQUIRED BY THE SWPPP UNTIL ALL UPSLOPE AREAS HAVE ACHIEVED FINAL STABILIZATION. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION, MAINTENANCE, REMOVAL, AND COMPLIANCE ASSOCIATED WITH EROSION CONTROL AND SWPPP REGULATIONS AND PLANS. EROSION CONTROL BMPS ARE SUBJECT TO FIELD VERIFICATION. ADDITIONAL BMPS MAY BE REQUIRED IF DEEMED NECESSARY BASED ON SITE CONDITIONS, SITE INSPECTION RESULTS, OR APPLICABLE PERMIT REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL FINES ASSOCIATED WITH EROSION CONTROL AND SWPPP VIOLATIONS. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTION AND REPAIR OF ALL SEDIMENT CONTROL DEVICES IN ACCORDANCE WITH THE SWPPP AND APPLICABLE REGULATIONS. THIS INCLUDES BUT IS NOT LIMITED TO ROUTINE INSPECTION AND MAINTENANCE, AND RAINFALL-BASED INSPECTION AND MAINTENANCE. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING TEMPORARY EROSION AND STABILIZE THE SITE IN ACCORDANCE WITH SCHEDULES INDICATED IN THE SWPPP AND APPLICABLE REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND WHEN ALL UPSLOPE AREAS HAVE ACHIEVED PERMANENT STABILIZATION WITH 70% OR GREATER UNIFORM PERENNIAL VEGETATIVE COVER. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SEDIMENT FROM THE SITE IF NOT REUSABLE ON SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL CONVEYANCES AND DRAINAGEWAYS AT COMPLETION OF CONSTRUCTION. ENSURE THAT ALL DRAINAGE STRUCTURES, FLUMES, PIPES, ETC. ARE CLEANED OUT AND FUNCTIONING AS DESIGNED UPON PROJECT COMPLETION. UPSLOPE SLIT FENCE, CONSTRUCTION FENCE, OR OTHER ACCESS CONTROLS ARE NOT REQUIRED ACROSS SITE ENTRANCES AND DEATILS. INSPECT PUBLIC ROADS ADJACENT TO THE PROJECT AT THE END OF EACH WORK DAY. CLEAN THE STREETS OF DEPOSITED SEDIMENT AS FREQUENTLY AS NEED
 MUST HAVE TEMPORARY BMPS IN THE PUBLIC ROW INSPECTED BY THE CITY. ALL DOWNSLOPE PERIMETER CONTROLS MUST BE INSTALLED PRIOR TO THE START OF UPSLOPE EARTH WORK. 11. TEMPORARILY SEED AND STABILIZE AREAS STRIPPED OF VEGETATION THAT WILL BE EXPOSED FOR MORE THAN 14 DAYS TO PREVENT EROSION. IF MULCHED, CRIMP THE MULCH INTO THE EXPOSED GROUND. 12. ALL DISTURBED AREAS WITHIN 200 FEET OF THE EDGE OF WATER, THAT ACTIVELY DRAIN TO THE WATERBODY, MUST BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 24 HOURS OF CONSTRUCTION ENDING IN THOSE AREAS FOR A PERIOD OF 24 HOURS OR LONGER. 13. USE PERMANENT SEEDING IN ALL DISTURBED AREAS NOT RECEIVING PERMANENT STABILIZATION, SUCH AS
 PAVEMENT, ROOFS, SOD, ETC. PERMANENT VEGETATION MUST BE ESTABLISHED BEFORE TEMPORARY SEDIMENT CONTROLS CAN BE REMOVED AND PRIOR TO FINAL APPROVAL. 14. CONCRETE WASHOUT SHALL BE COMPLETED OFF-SITE OR IN SELF-CONTAINED TRUCKS. CONCRETE MAY NOT BE DISPOSED OF ON THE GROUND OR IN SURFACE WATERS.
 15. REFER TO MNDNR WORK IN WATER RESTRICTIONS FOR WORK WITHIN AND ADJACENT TO MINNEHAHA CREEK. 16. CONTRACTOR TO MINIMIZE DISTURBANCE TO EXISTING TREES AND VEGETATION TO REMAIN. REFER TO LANDSCAPE (L SERIES) SHEETS FOR VEGETATION PRESERVATION.
N CONTROL PLAN

DURING OUTLET CHANNEL GRADING.

MOVING WATER

- PROTECT WETLAND

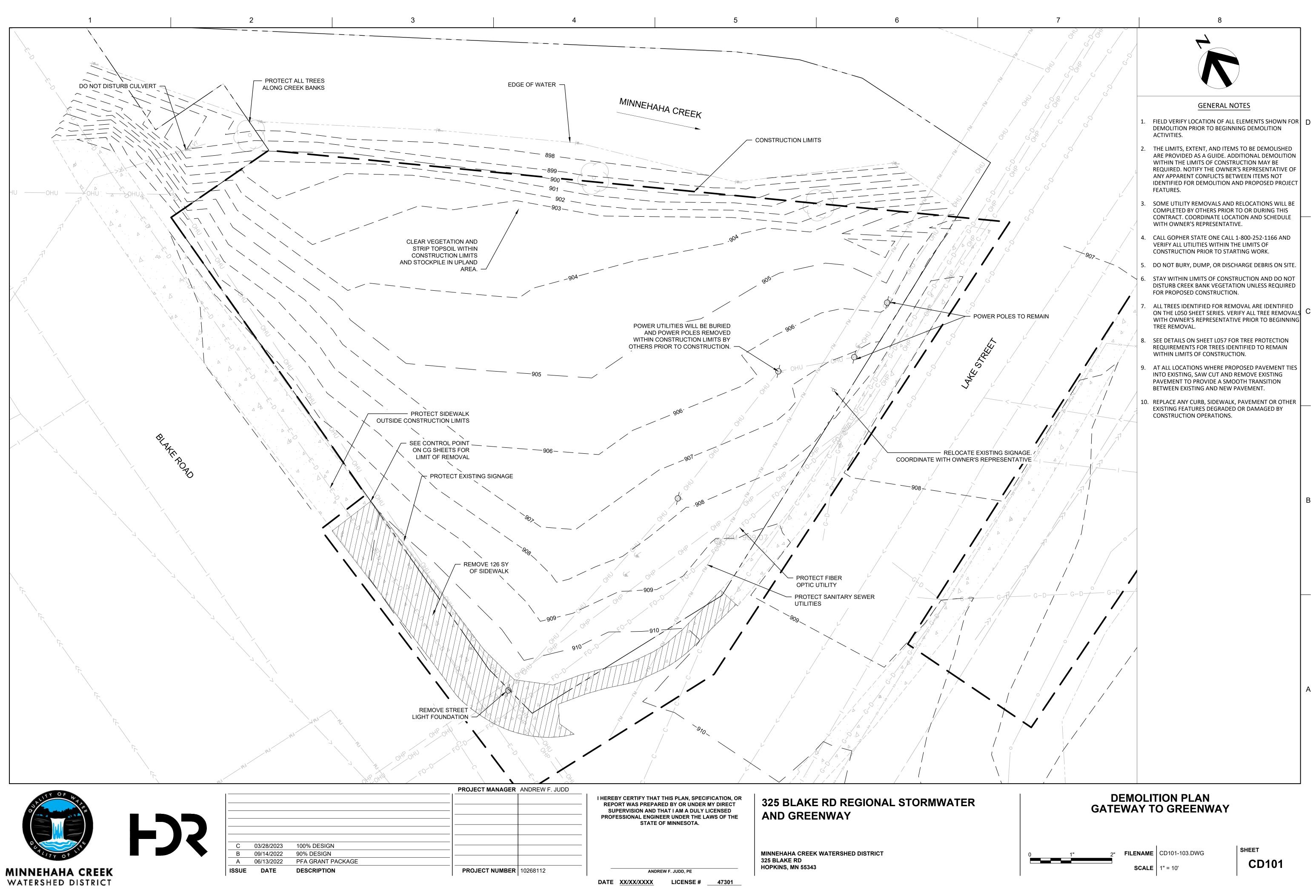
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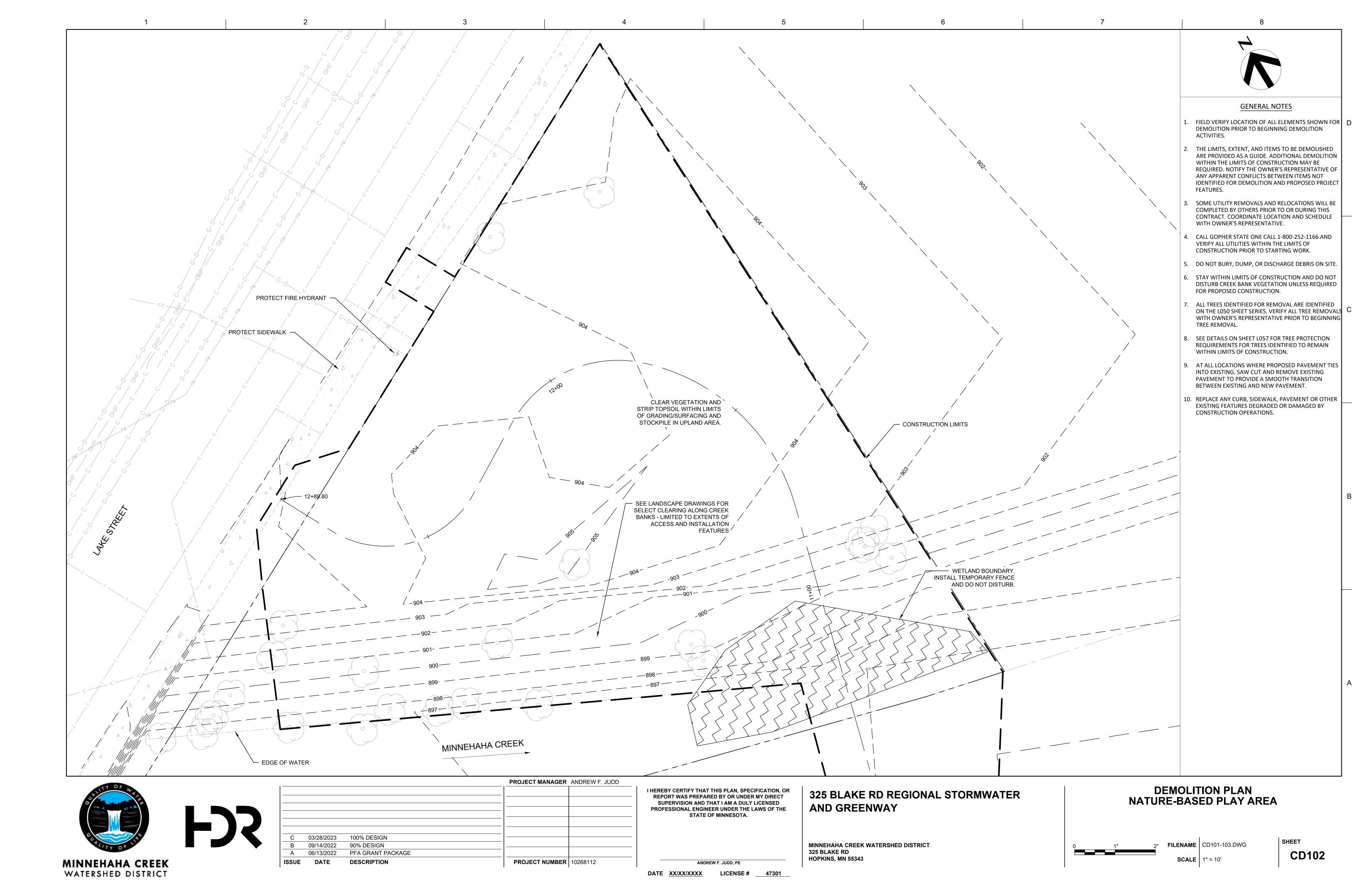
EROSION CONTROL PLAN STORMWATER POND AND TRAILHEAD

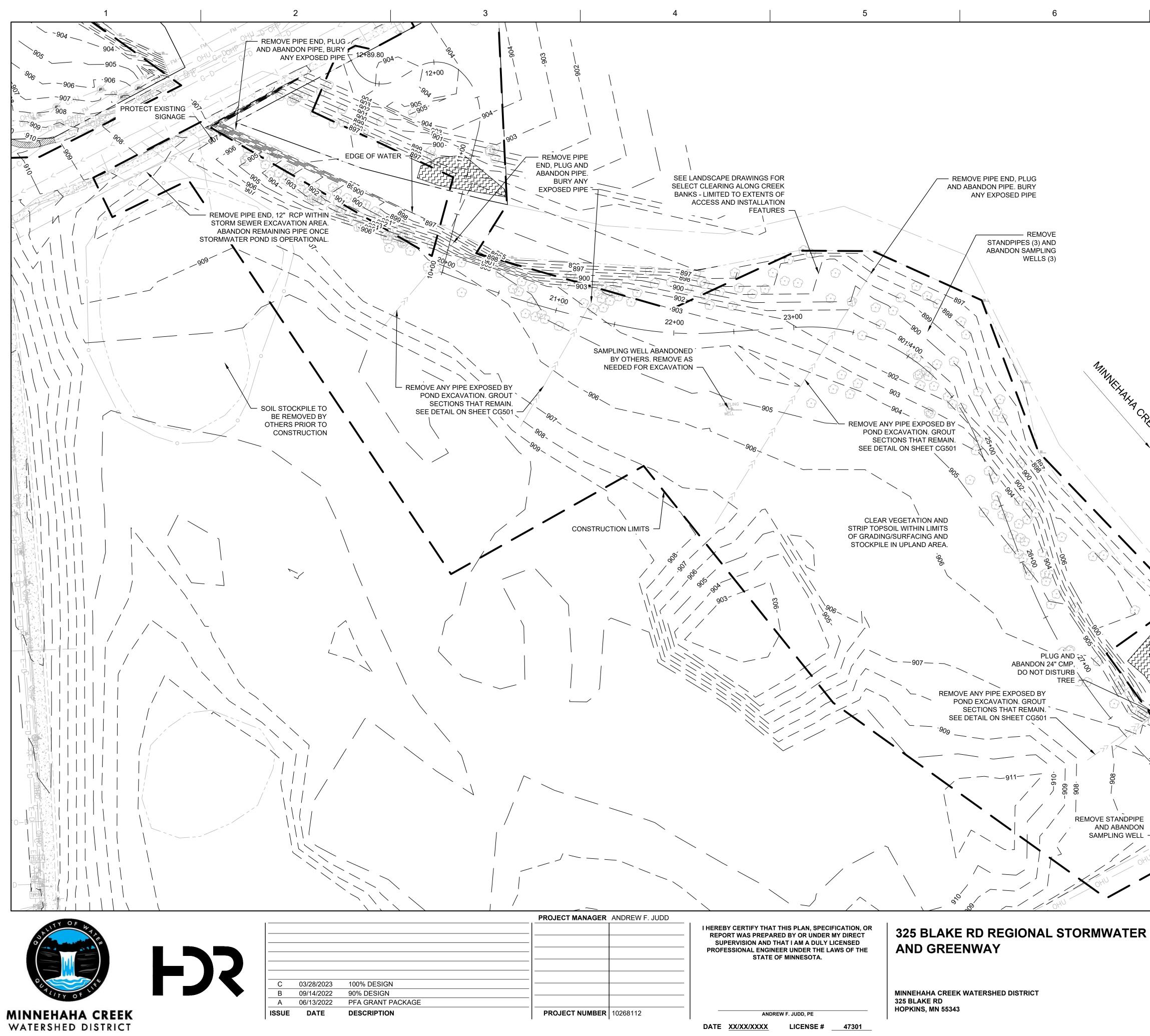
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SHEET EC105

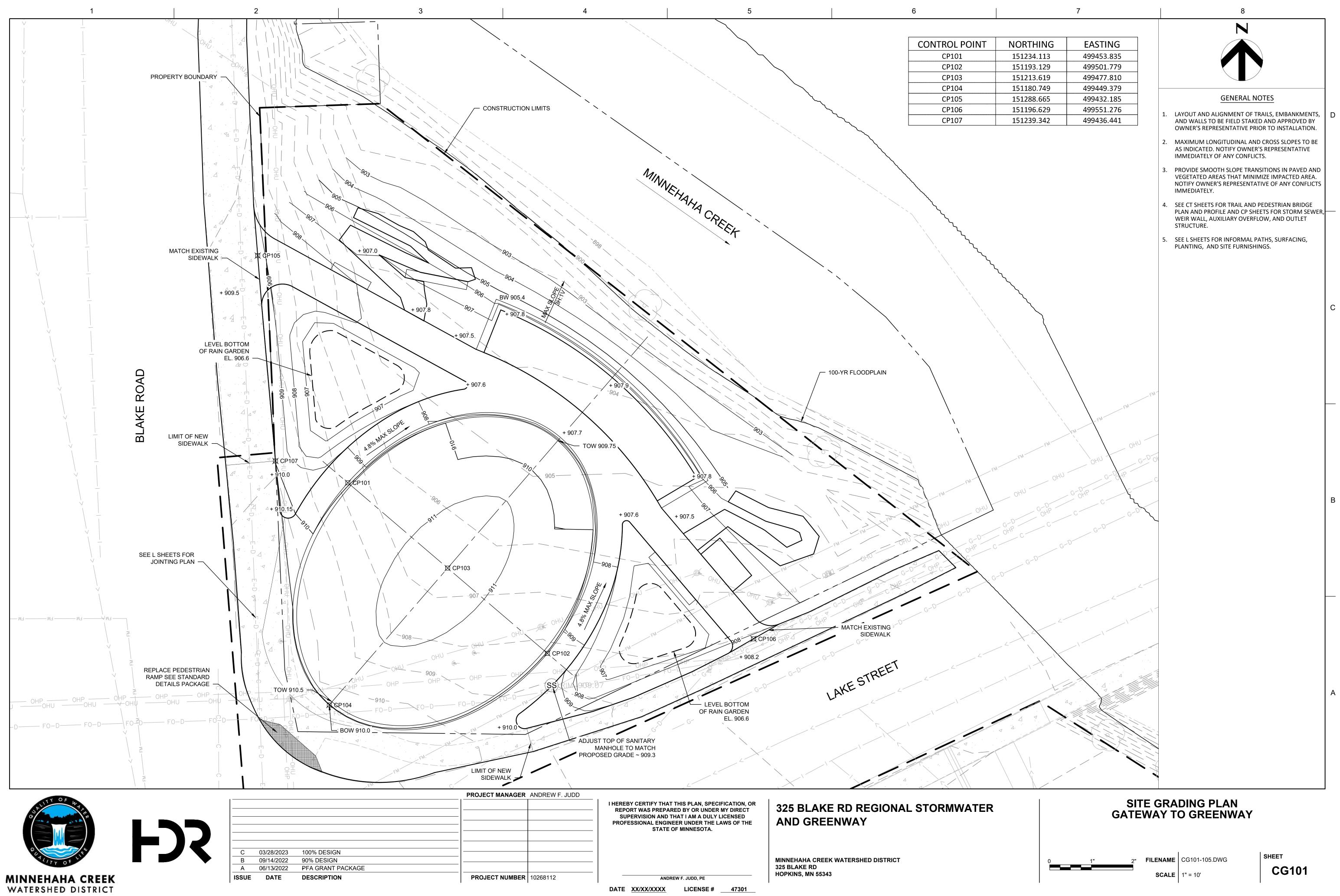


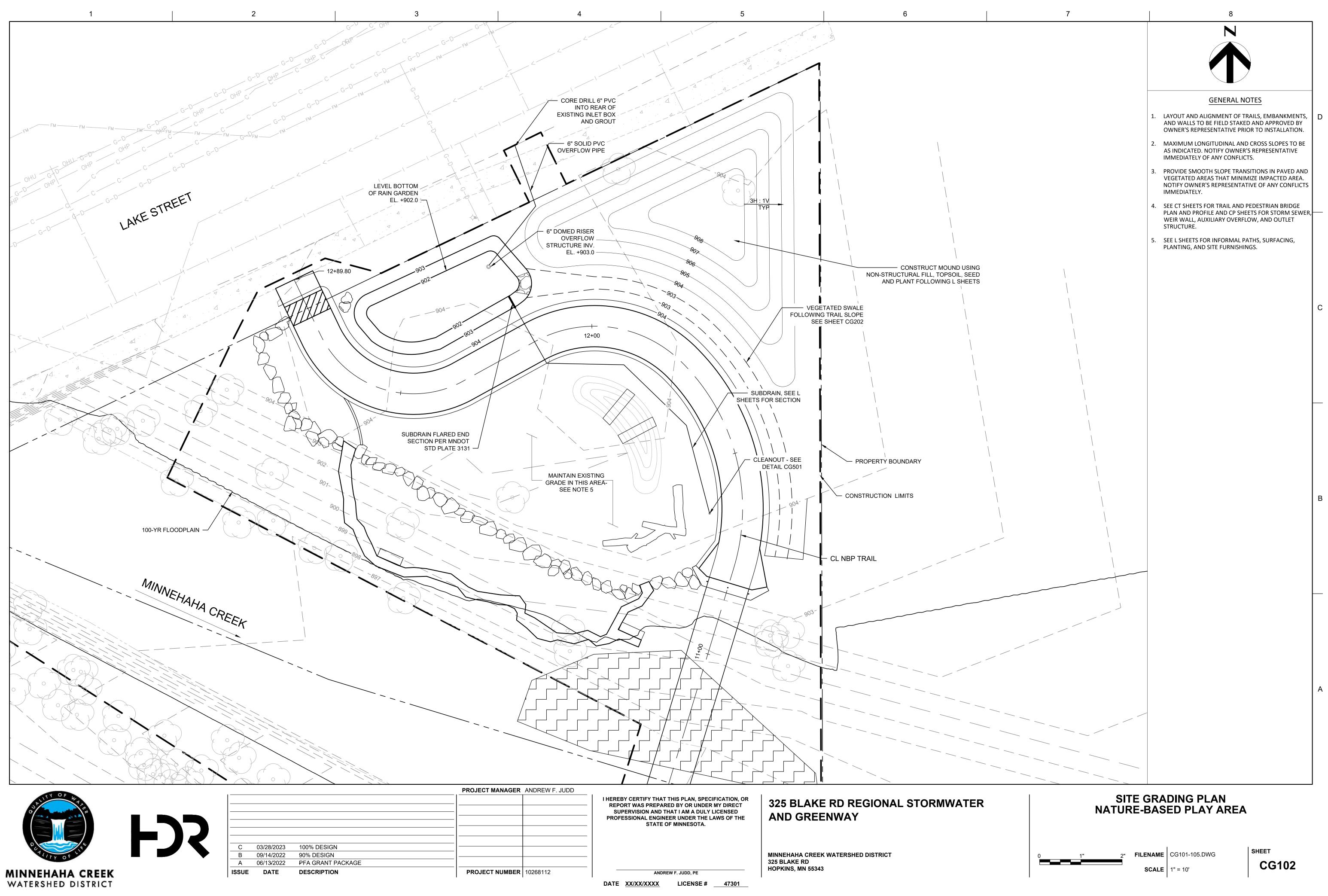


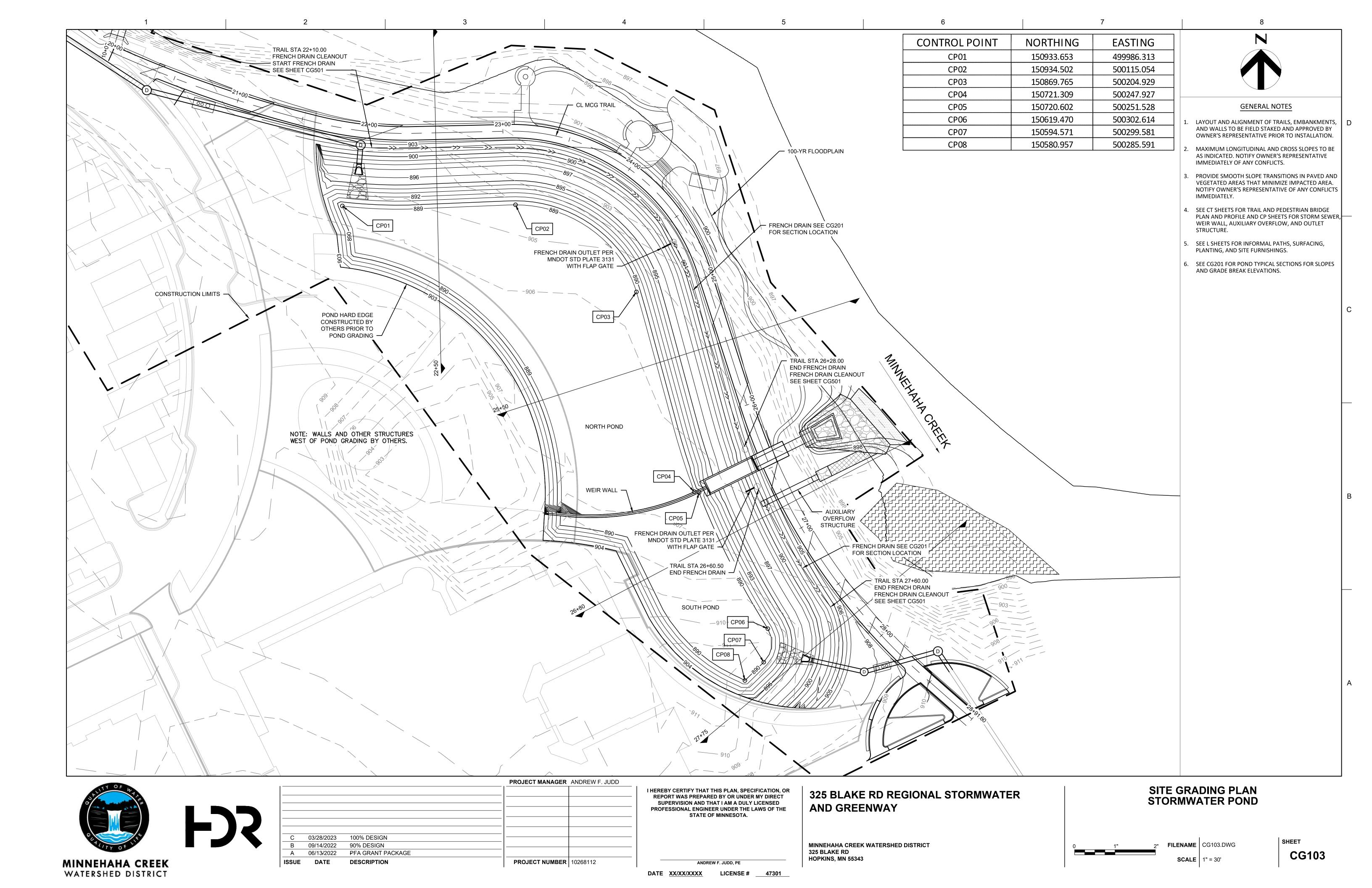


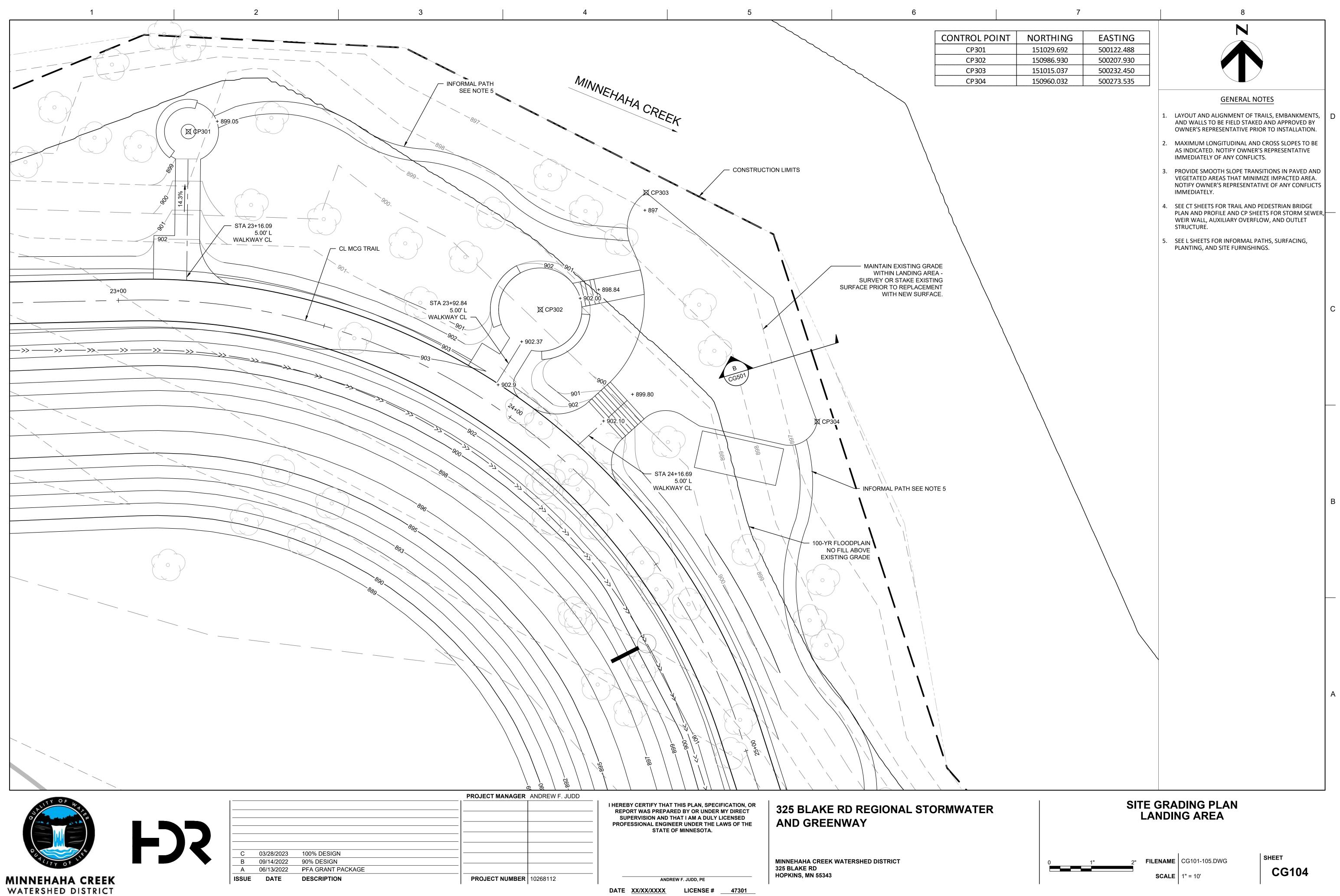
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	GENERAL NOTES	
	1. FIELD VERIFY LOCATION OF ALL ELEMENTS SHOWN FOR DEMOLITION PRIOR TO BEGINNING DEMOLITION ACTIVITIES.	D
	2. THE LIMITS, EXTENT, AND ITEMS TO BE DEMOLISHED ARE PROVIDED AS A GUIDE. ADDITIONAL DEMOLITION WITHIN THE LIMITS OF CONSTRUCTION MAY BE REQUIRED. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY APPARENT CONFLICTS BETWEEN ITEMS NOT IDENTIFIED FOR DEMOLITION AND PROPOSED PROJECT FEATURES.	
	3. SOME UTILITY REMOVALS AND RELOCATIONS WILL BE COMPLETED BY OTHERS PRIOR TO OR DURING THIS CONTRACT. COORDINATE LOCATION AND SCHEDULE WITH OWNER'S REPRESENTATIVE.	
	4. CALL GOPHER STATE ONE CALL 1-800-252-1166 AND VERIFY ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION PRIOR TO STARTING WORK.	
	5. DO NOT BURY, DUMP, OR DISCHARGE DEBRIS ON SITE.	
	6. STAY WITHIN LIMITS OF CONSTRUCTION AND DO NOT DISTURB CREEK BANK VEGETATION UNLESS REQUIRED FOR PROPOSED CONSTRUCTION.	
	7. ALL TREES IDENTIFIED FOR REMOVAL ARE IDENTIFIED ON THE L050 SHEET SERIES. VERIFY ALL TREE REMOVALS WITH OWNER'S REPRESENTATIVE PRIOR TO BEGINNING TREE REMOVAL.	
	8. SEE DETAILS ON SHEET L057 FOR TREE PROTECTION REQUIREMENTS FOR TREES IDENTIFIED TO REMAIN WITHIN LIMITS OF CONSTRUCTION.	
CREEK	9. AT ALL LOCATIONS WHERE PROPOSED PAVEMENT TIES INTO EXISTING, SAW CUT AND REMOVE EXISTING PAVEMENT TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW PAVEMENT.	
	10. REPLACE ANY CURB, SIDEWALK, PAVEMENT OR OTHER EXISTING FEATURES DEGRADED OR DAMAGED BY CONSTRUCTION OPERATIONS.	
		В
WETLAND BOUNDARY. INSTALL TEMPORARY FENCE AND DO NOT DISTURB		
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903 REMOVE 36" FES, PLUG ABANDONED SEGMENT OF PIPE AND BURY PIPE END ONCE STORMWATER POND IS OPERATIONAL	-	
SAMPLING HU		A
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	OLITION PLAN	
	POND AND TRAILHEAD	

FILENAME CD101-103.DWG **SCALE** 1" = 30'

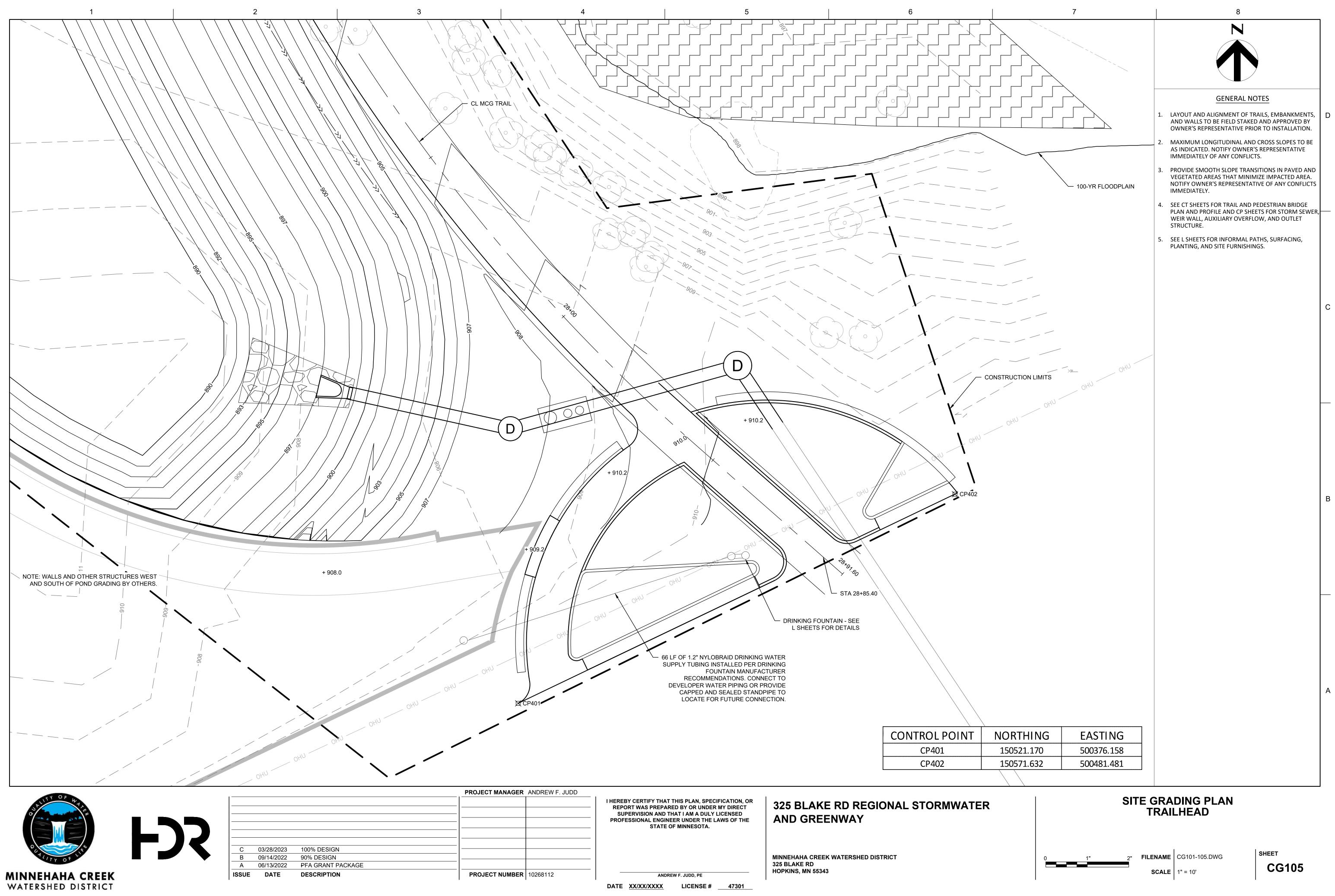






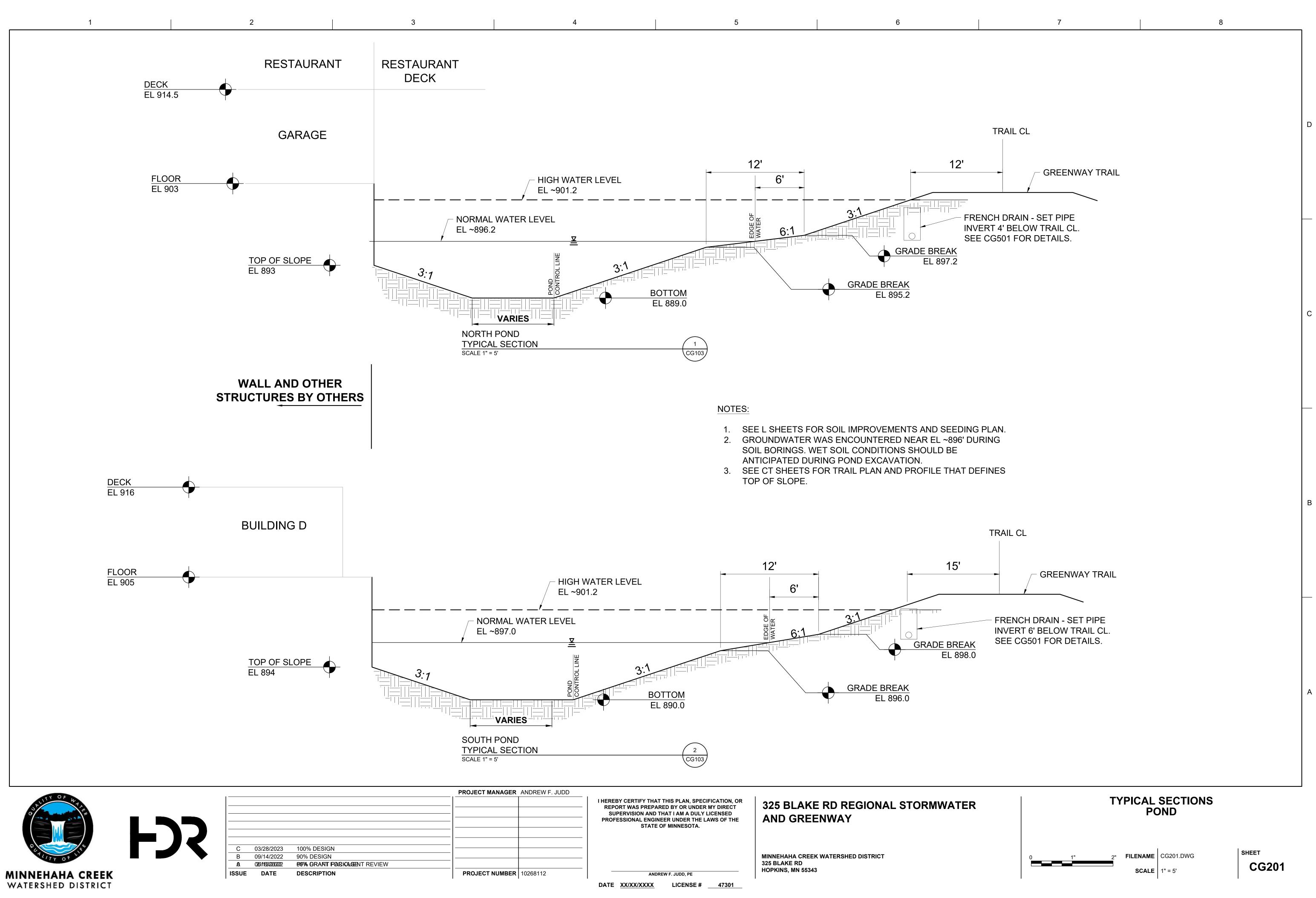


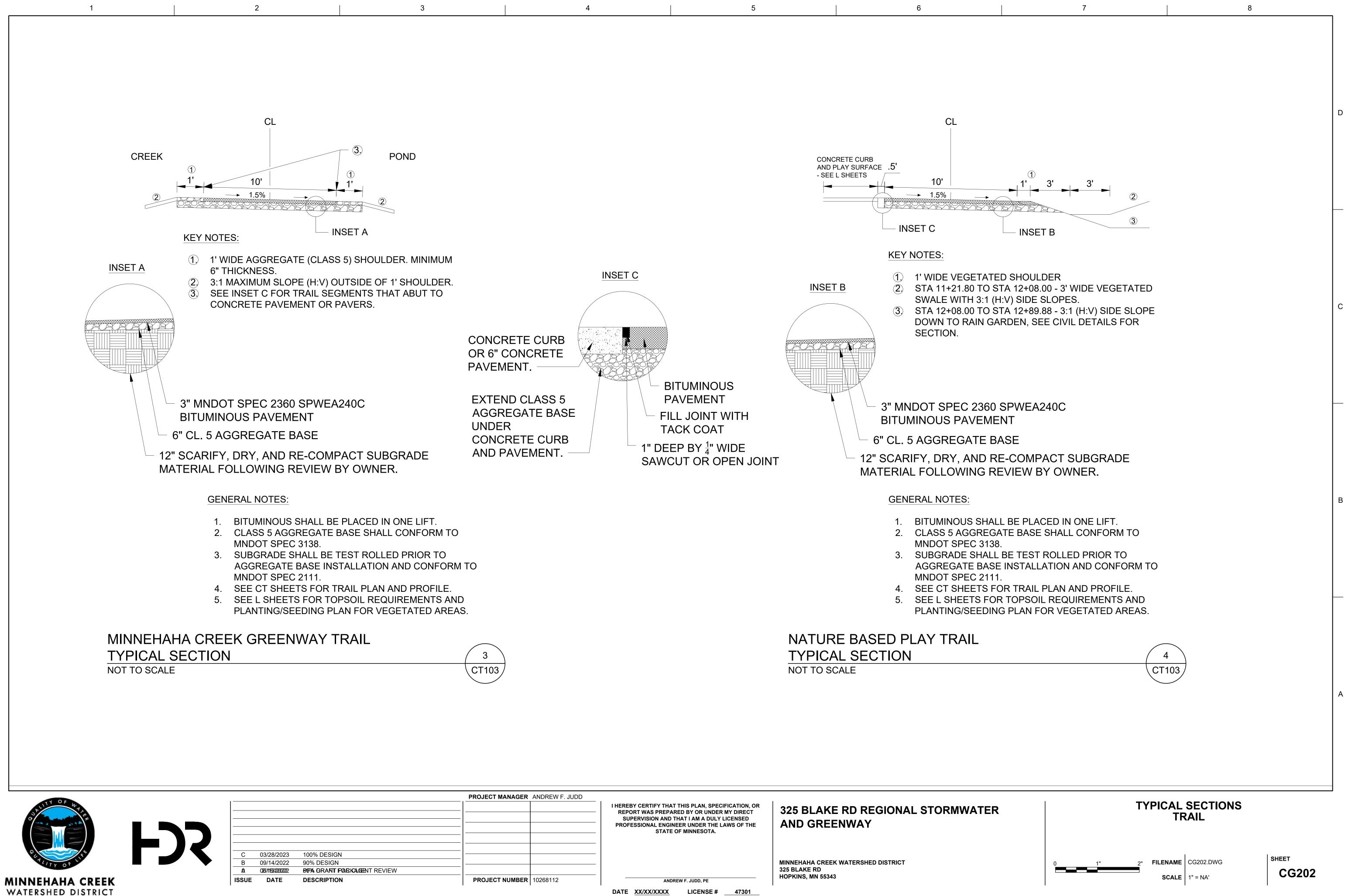
PROJECT MANAGER	ANDREW F. JU	DD
PROJECT NUMBER	10268112	



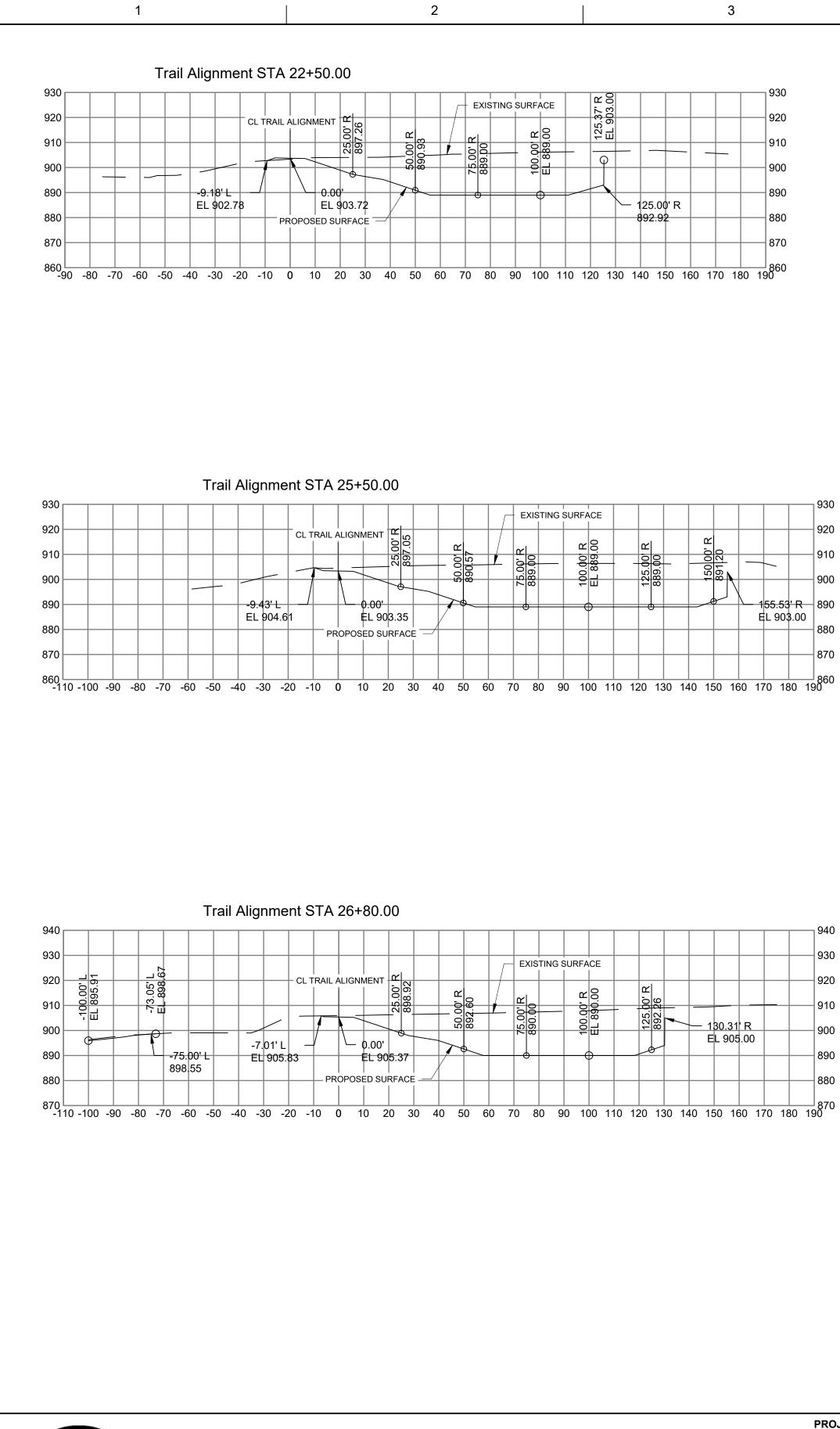
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OI
REPORT WAS PREPARED BY OR UNDER MY DIRECT
SUPERVISION AND THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER UNDER THE LAWS OF THE
STATE OF MINNESOTA.

PROJECT MANAGER	ANDREW F. JUDD
	10268112

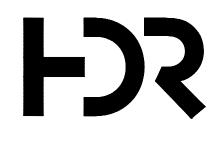




_	PROJECT MANAGER	ANDREW F. JUDD	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE	325 BLAKE AND GREE
-			STATE OF MINNESOTA.	
-				
-				MINNEHAHA CREEP 325 BLAKE RD
-	PROJECT NUMBER	10268112	ANDREW F. JUDD, PE	HOPKINS, MN 55343



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			PROJECT MANAGER	ANDREW F. JUDD
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ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10268112

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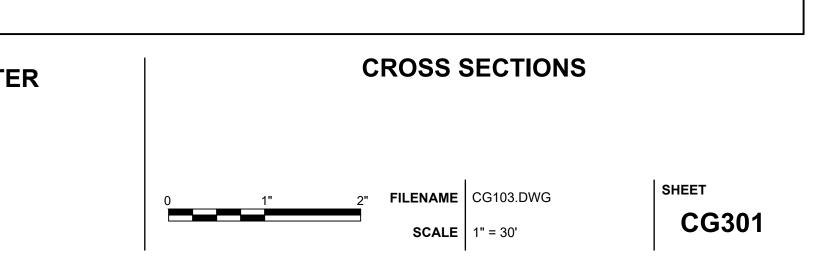
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

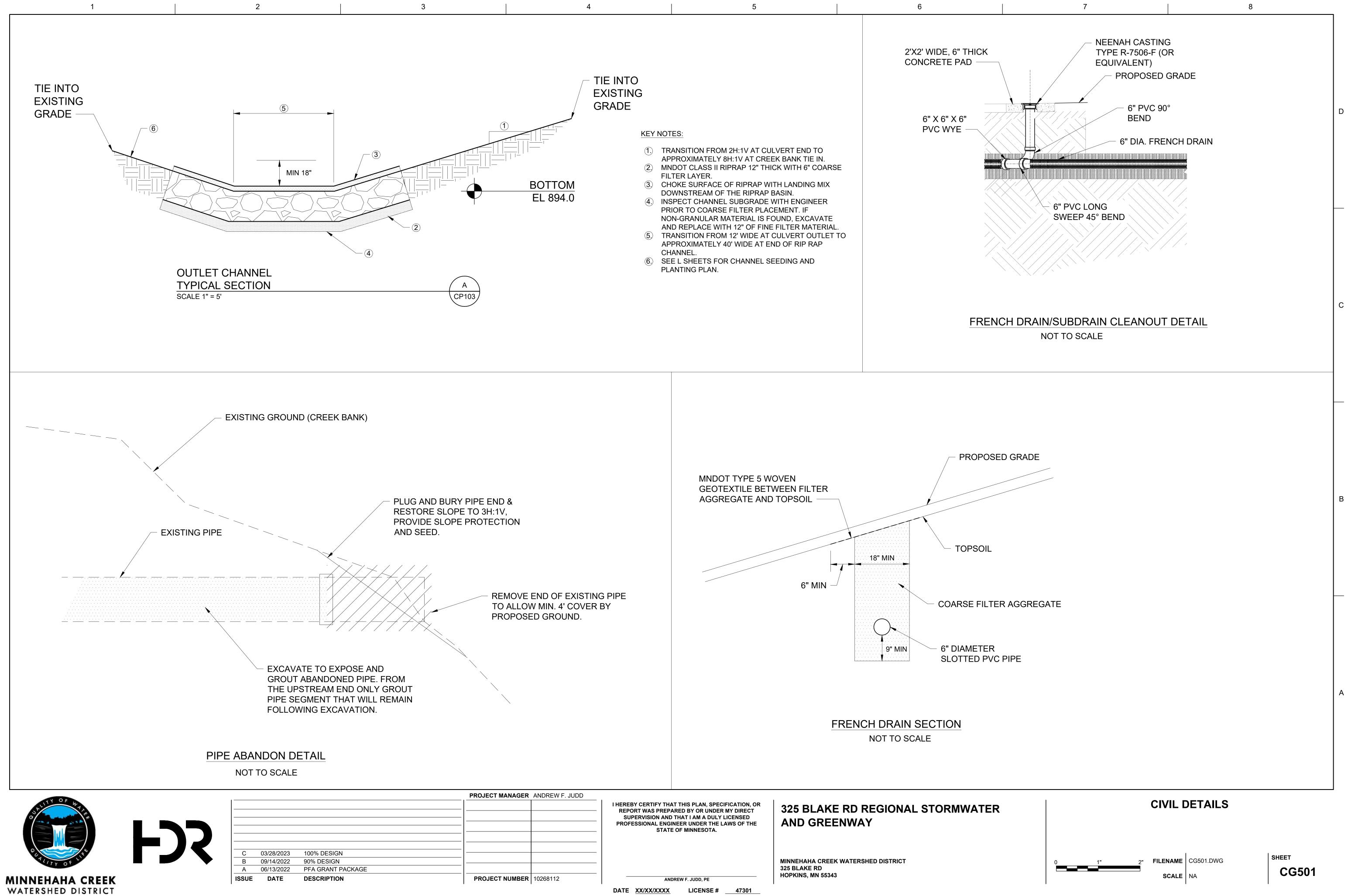
ANDREW F. JUDD, PE

LICENSE # 47301 DATE XX/XX/XXXX

325 BLAKE RD REGIONAL STORMWATER AND GREENWAY

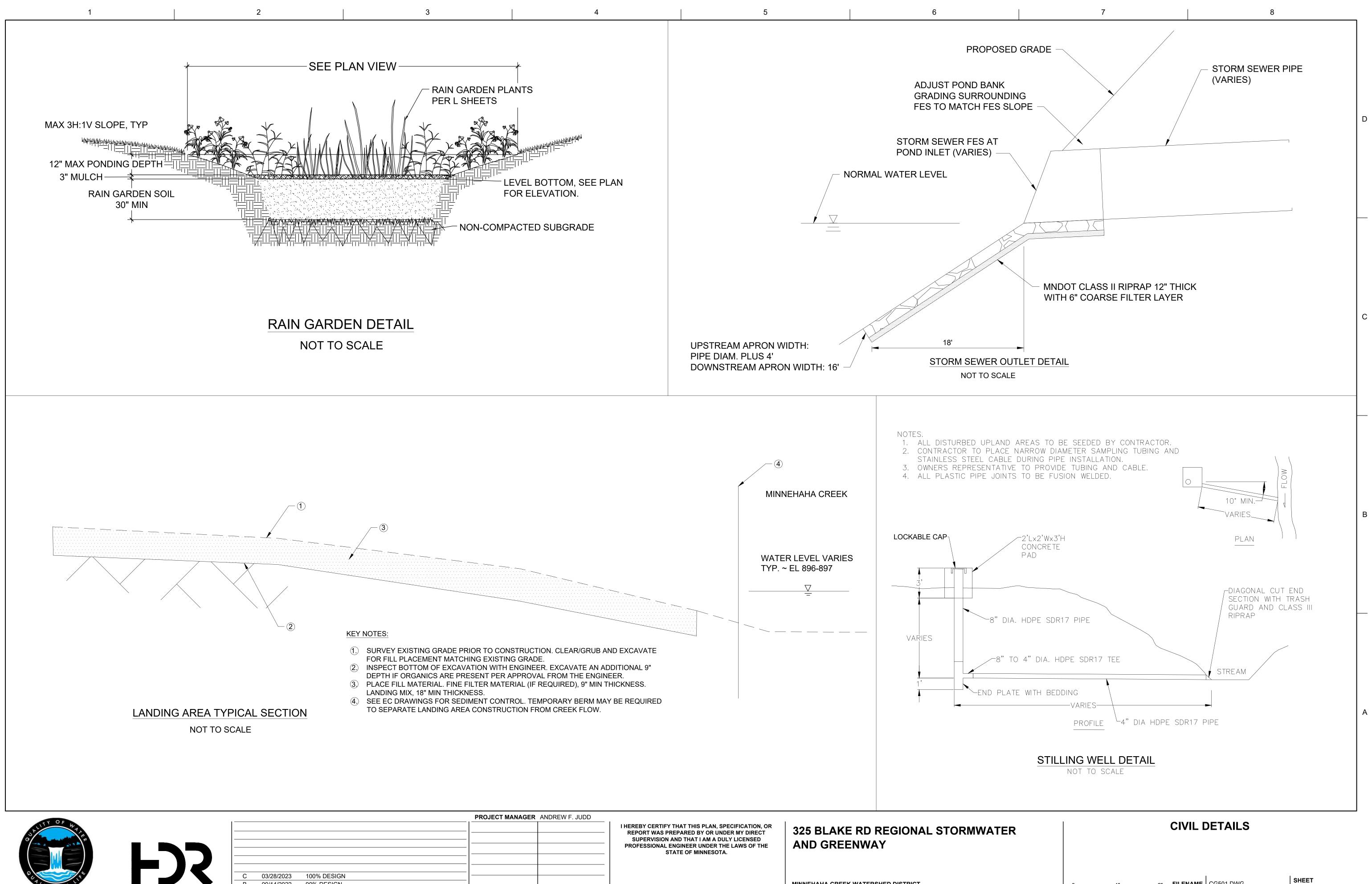
MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343





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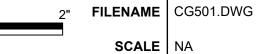
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MINNEHAHA CREEK WATERSHED DISTRIC
325 BLAKE RD
HOPKINS, MN 55343

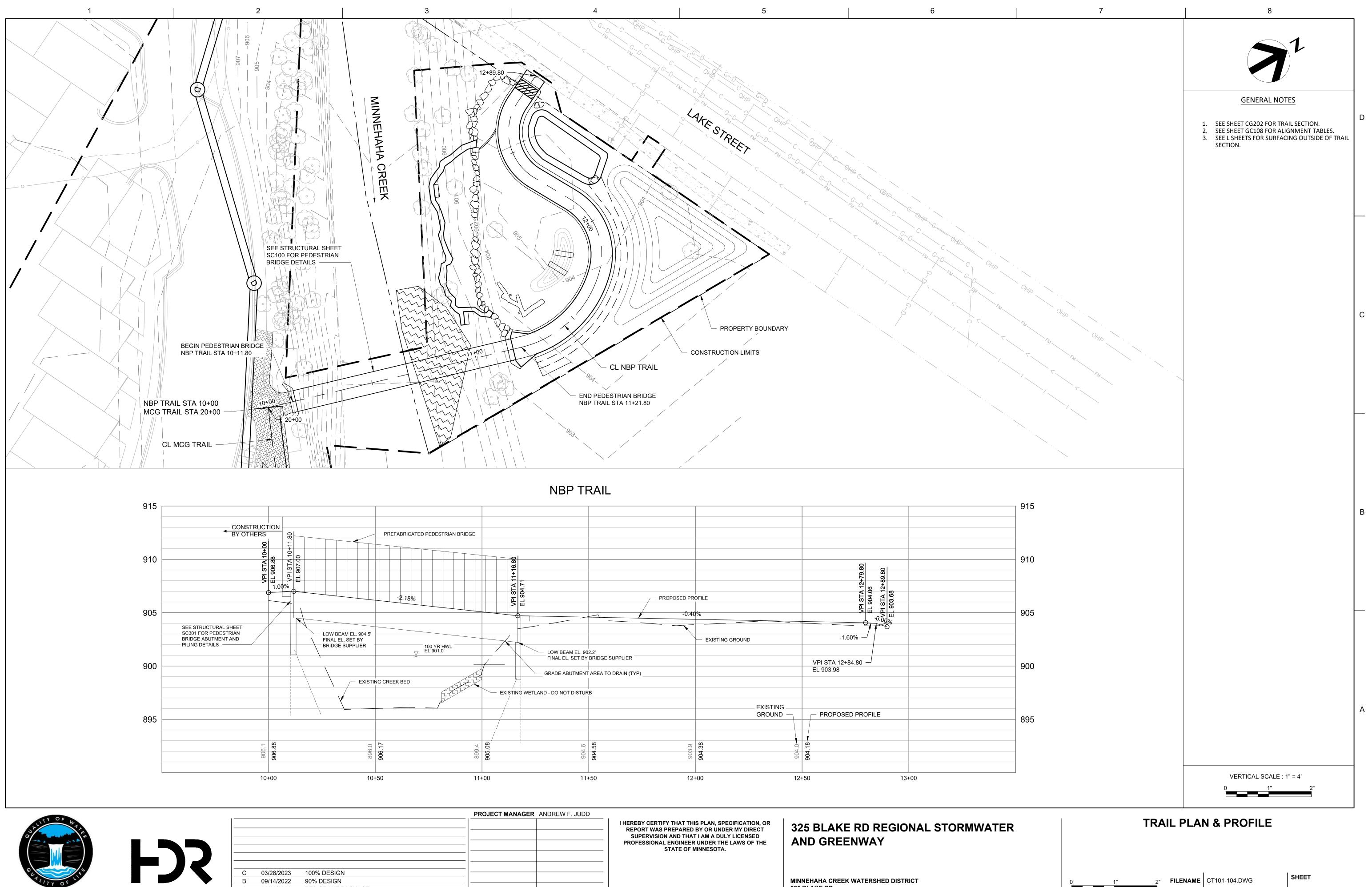
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ANDREW F. JUDD, PE







A 06/13/2022 PFA GRANT PACKAGE DATE DESCRIPTION

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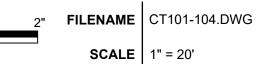
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PROJECT MANAGER	ANDREW F. JUDD
PROJECT NUMBER	10268112
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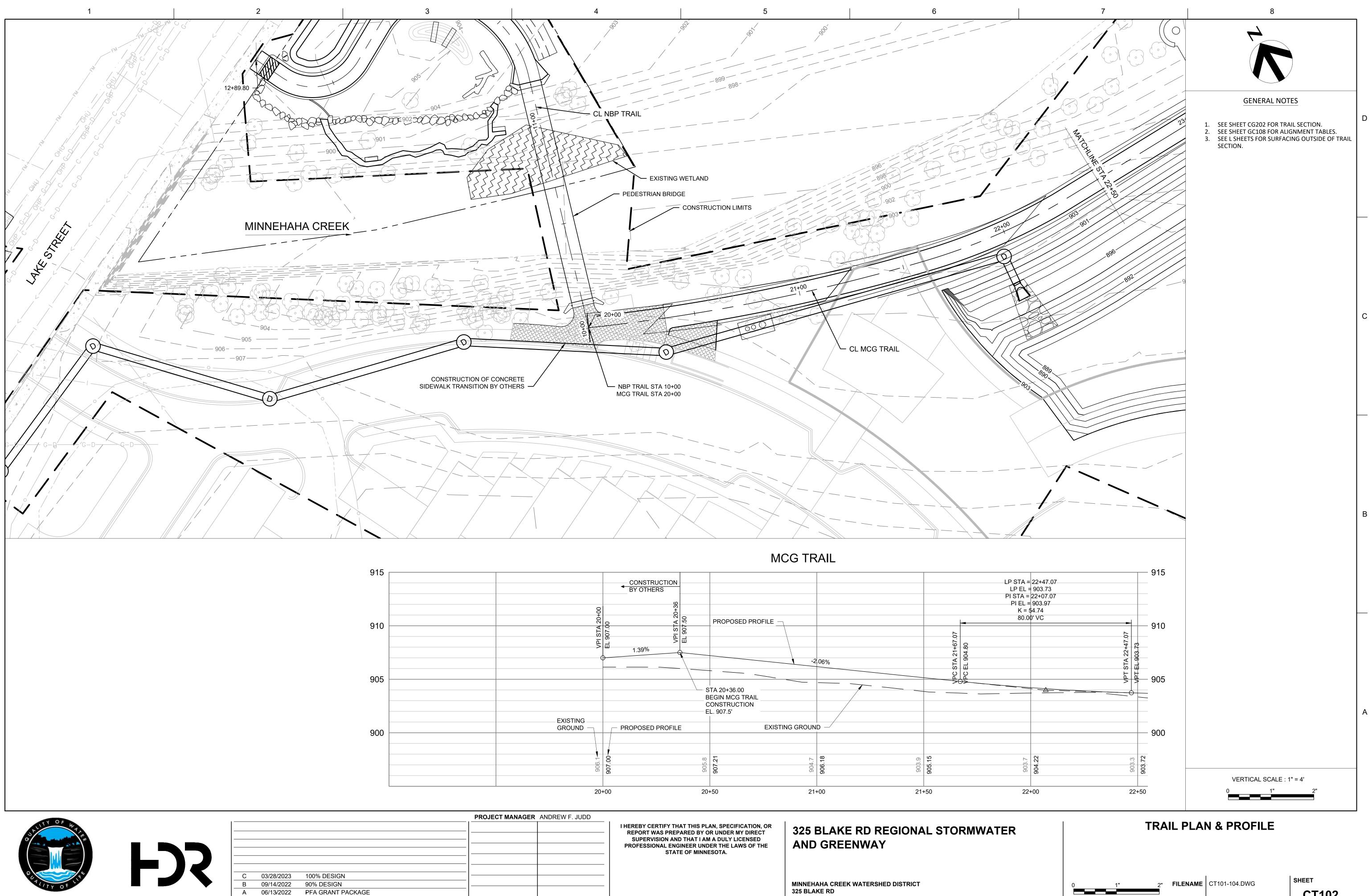
ANDREW F. JUDD, PE

MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343

DATE XX/XX/XXXX LICENSE # 47301







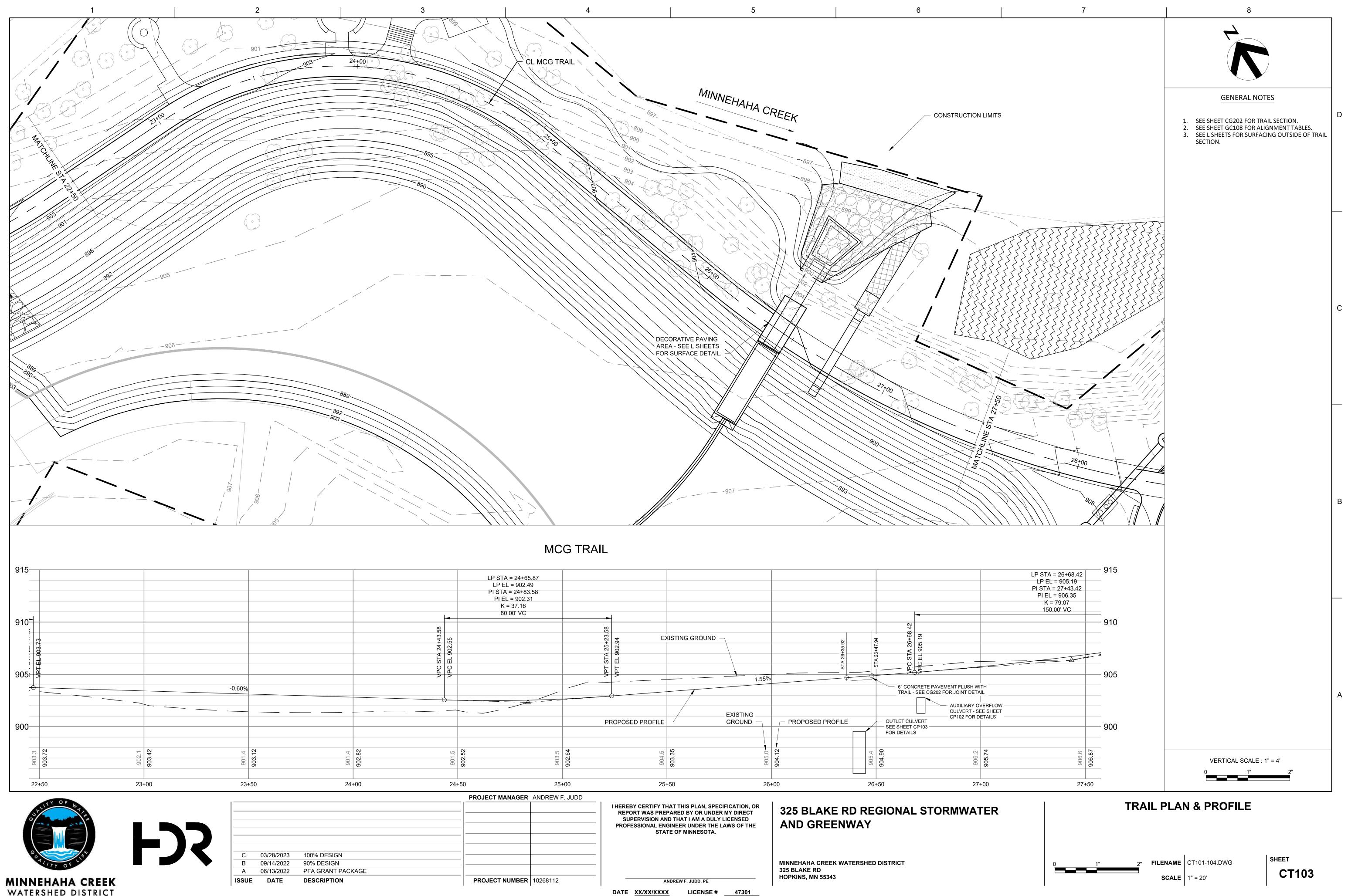
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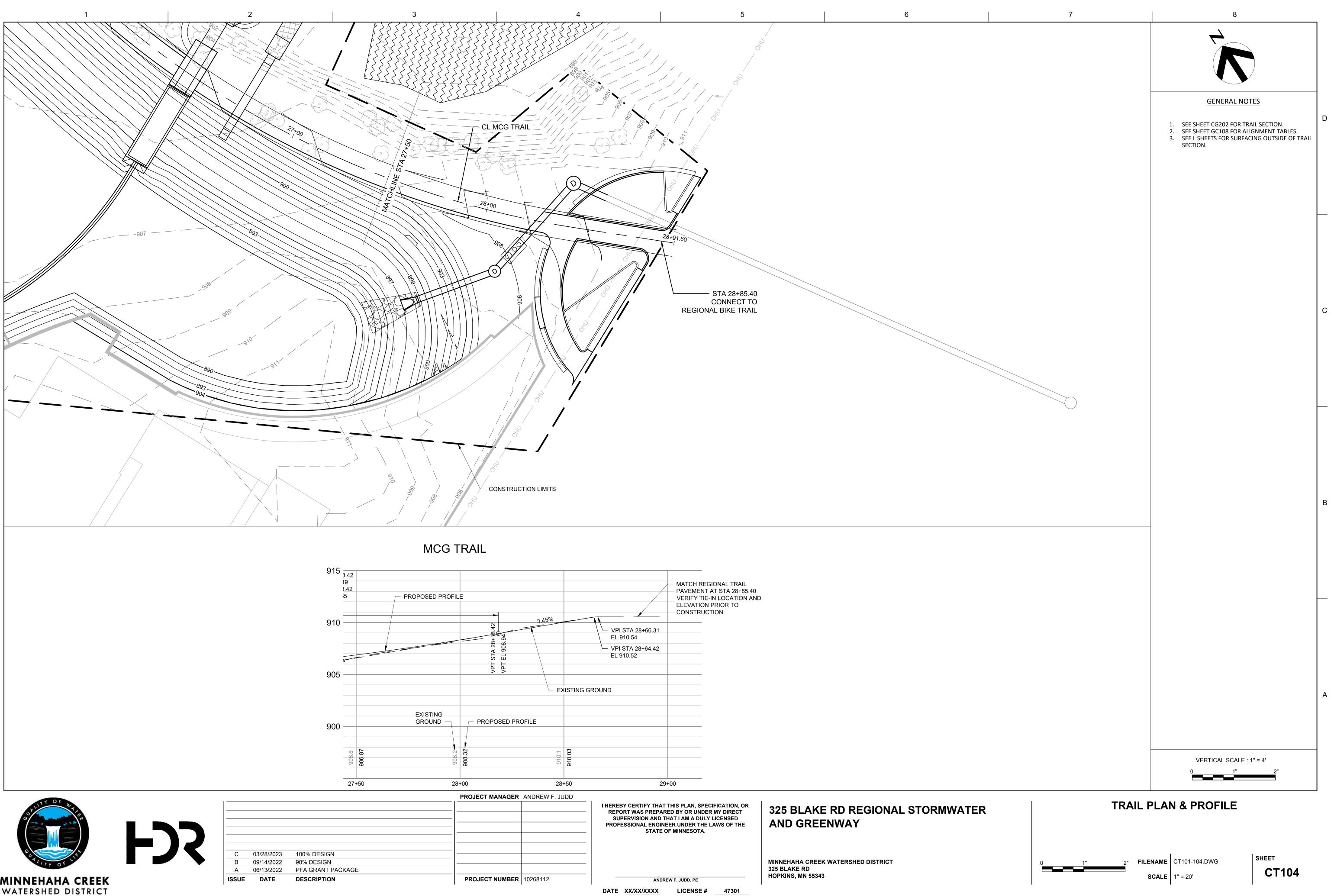
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PROJECT MANAGER	ANDREW F. JUDD				
		REPORT WAS PREPAR SUPERVISION AND T PROFESSIONAL ENGINI	THIS PLAN, SPECIFICATION, OR RED BY OR UNDER MY DIRECT HAT I AM A DULY LICENSED EER UNDER THE LAWS OF THE DF MINNESOTA.	325 BLAKE RD REG AND GREENWAY	IONAL STORMWAT
PROJECT NUMBER	10268112		EW F. JUDD, PE	MINNEHAHA CREEK WATERSHED D 325 BLAKE RD HOPKINS, MN 55343	ISTRICT
	1	DATE <u>XX/XX/XXXX</u>	LICENSE #47301	1	

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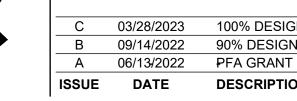
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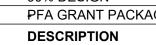


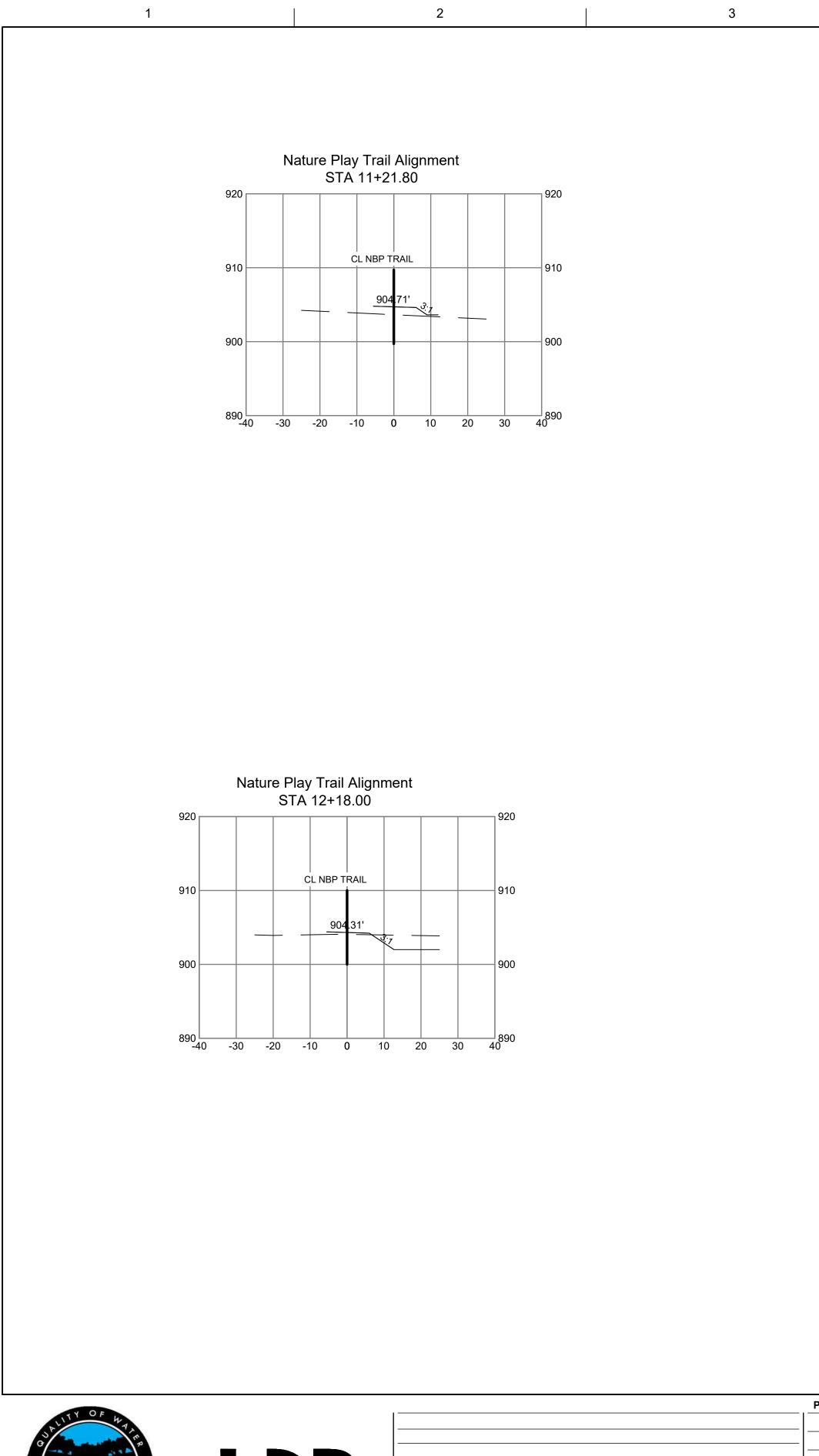
WATERSHED DISTRICT



MINNEHAH	A CREEK
WATERSHED	DISTRICT







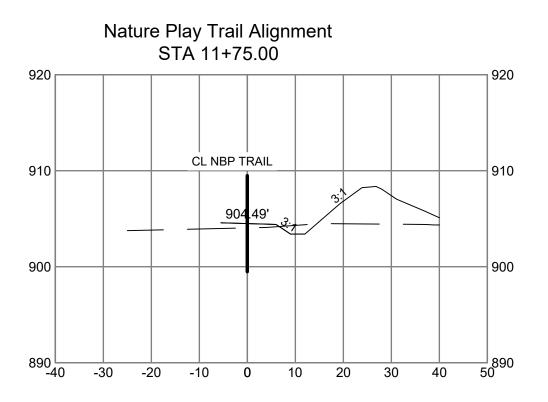
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MINNEHAHA CREEK WATERSHED DISTRICT

 C
 03/28/2023
 100% DESIGN

 B
 09/14/2022
 90% DESIGN

 A
 06/13/2022
 PFA GRANT PACKAGE

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 DATE
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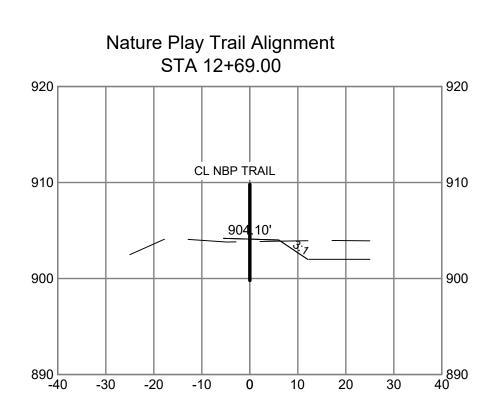


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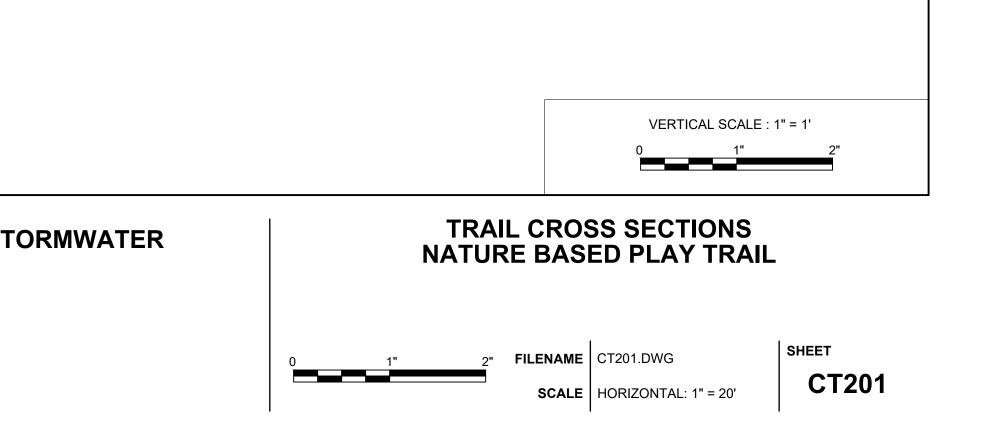
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 PROJECT MANAGER		I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	325 BLAKE RD REGIONAL ST AND GREENWAY
 PROJECT NUMBER	10268112	ANDREW F. JUDD, PE	MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343

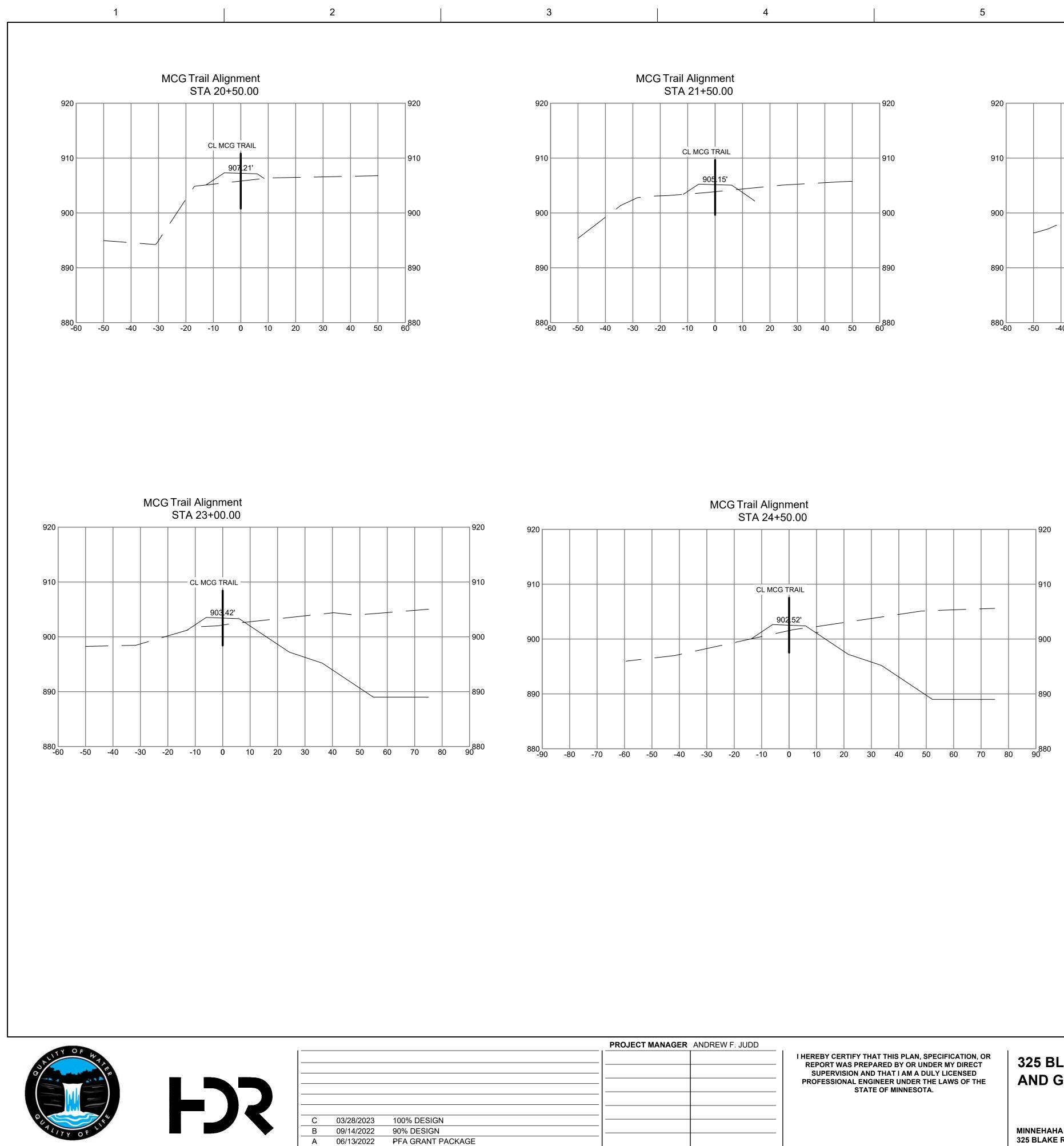


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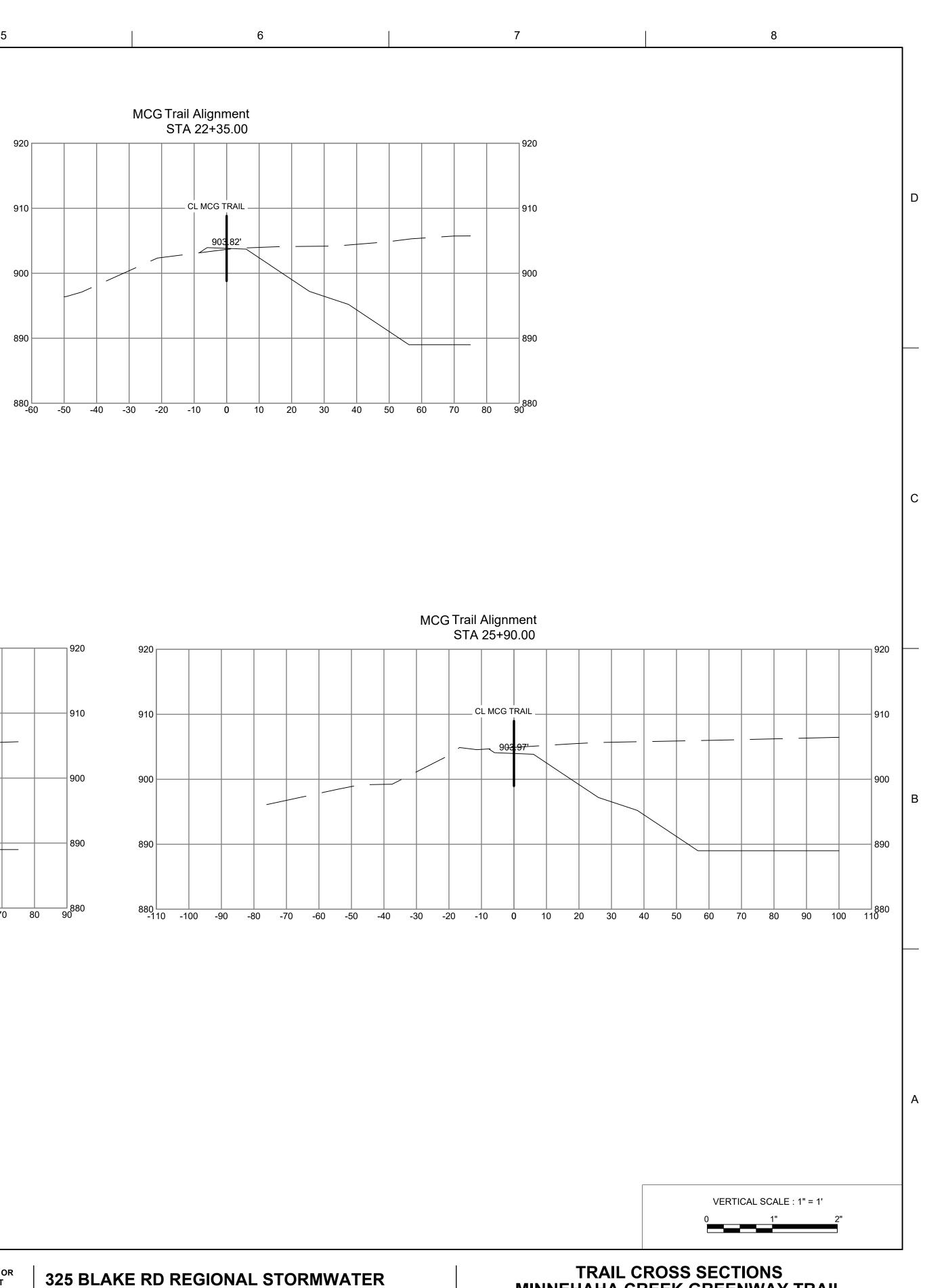
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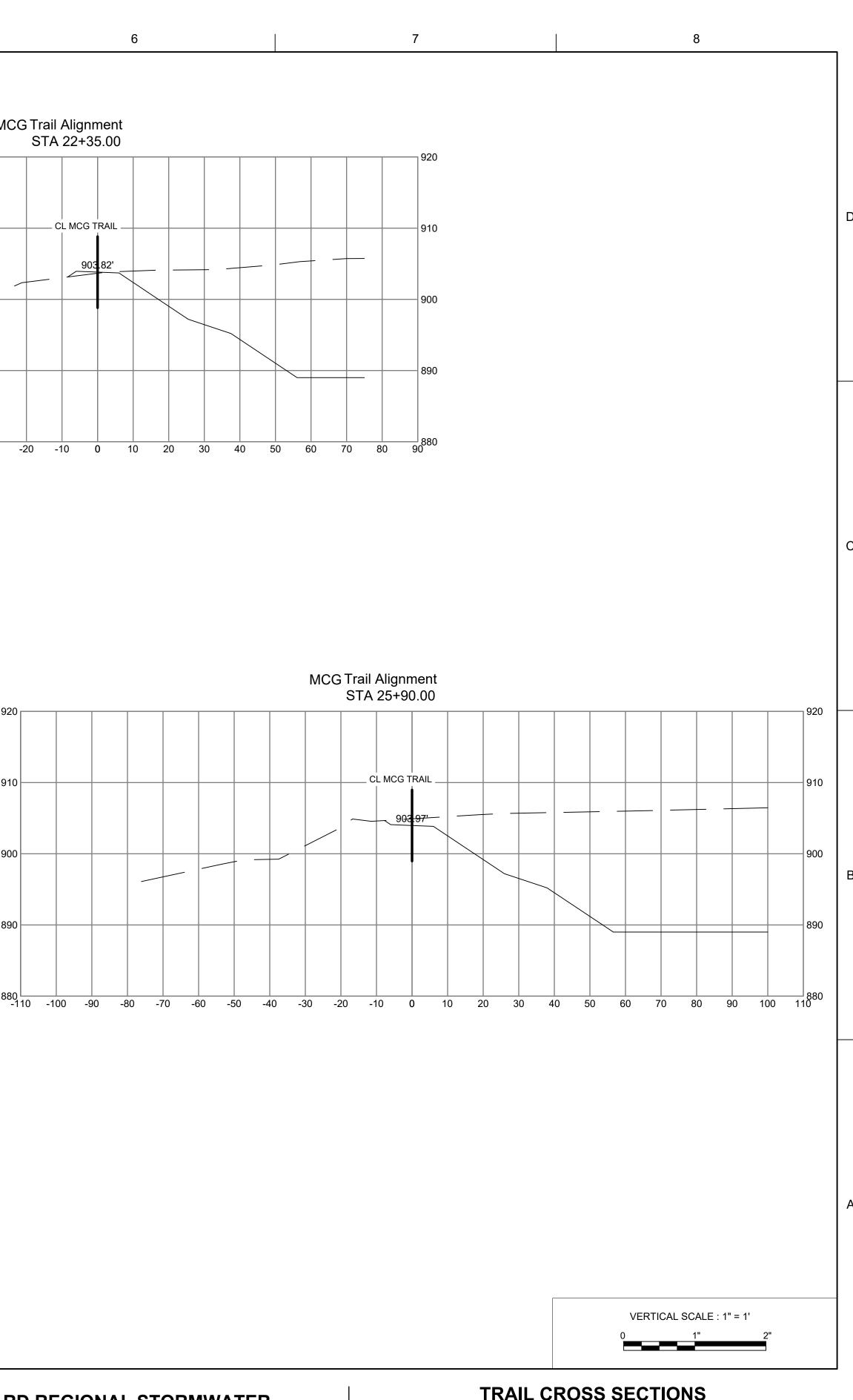
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ISSUE DATE DESCRIPTION



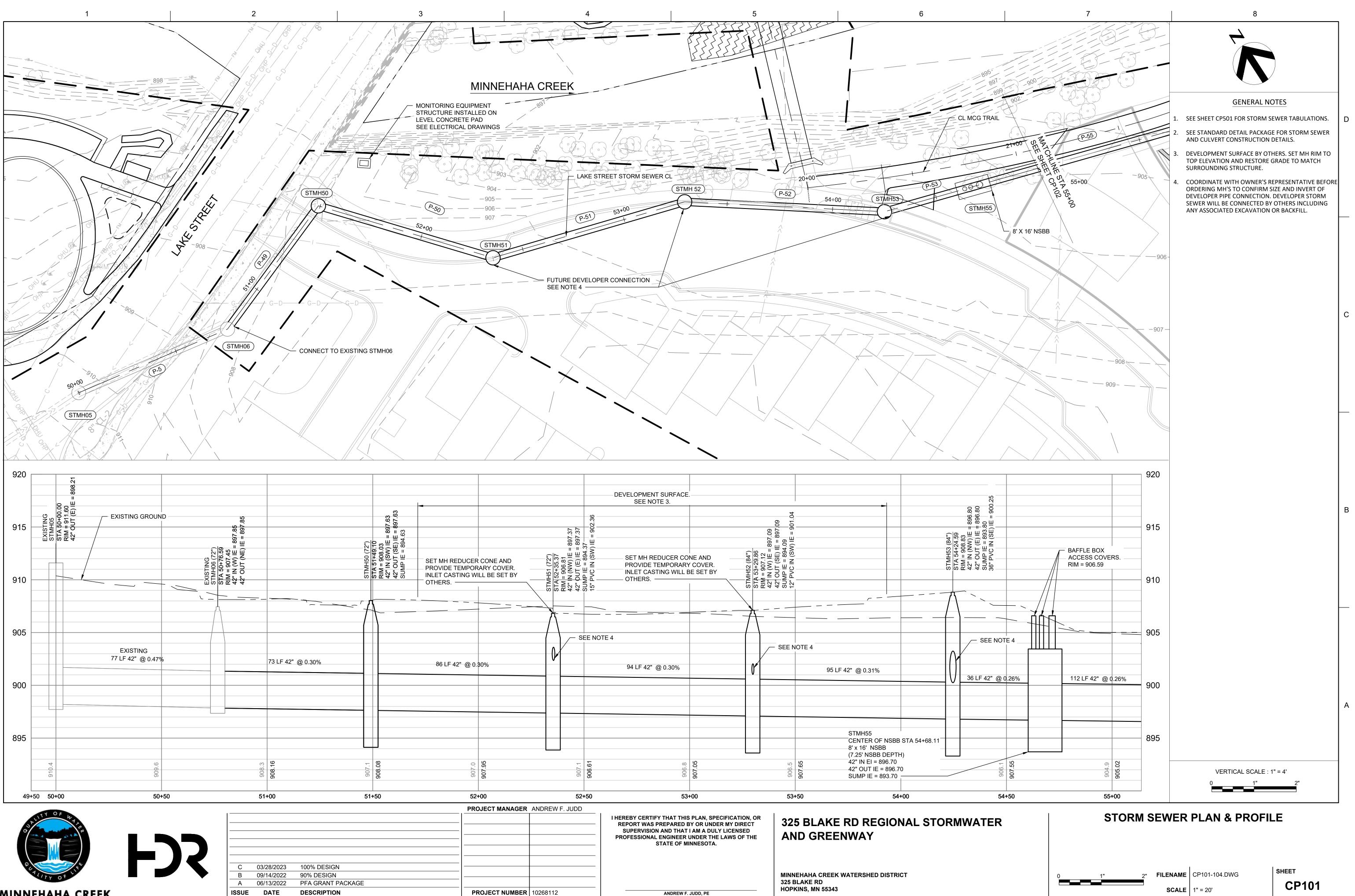




PROJECT MANAGER ANDREW F. JUDD		
	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	325 BLAKE RD REGIONAL STORMWATE AND GREENWAY
		MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343
PROJECT NUMBER 10268112	ANDREW F. JUDD, PE	
	DATE XX/XX/XXXX LICENSE # 47301	

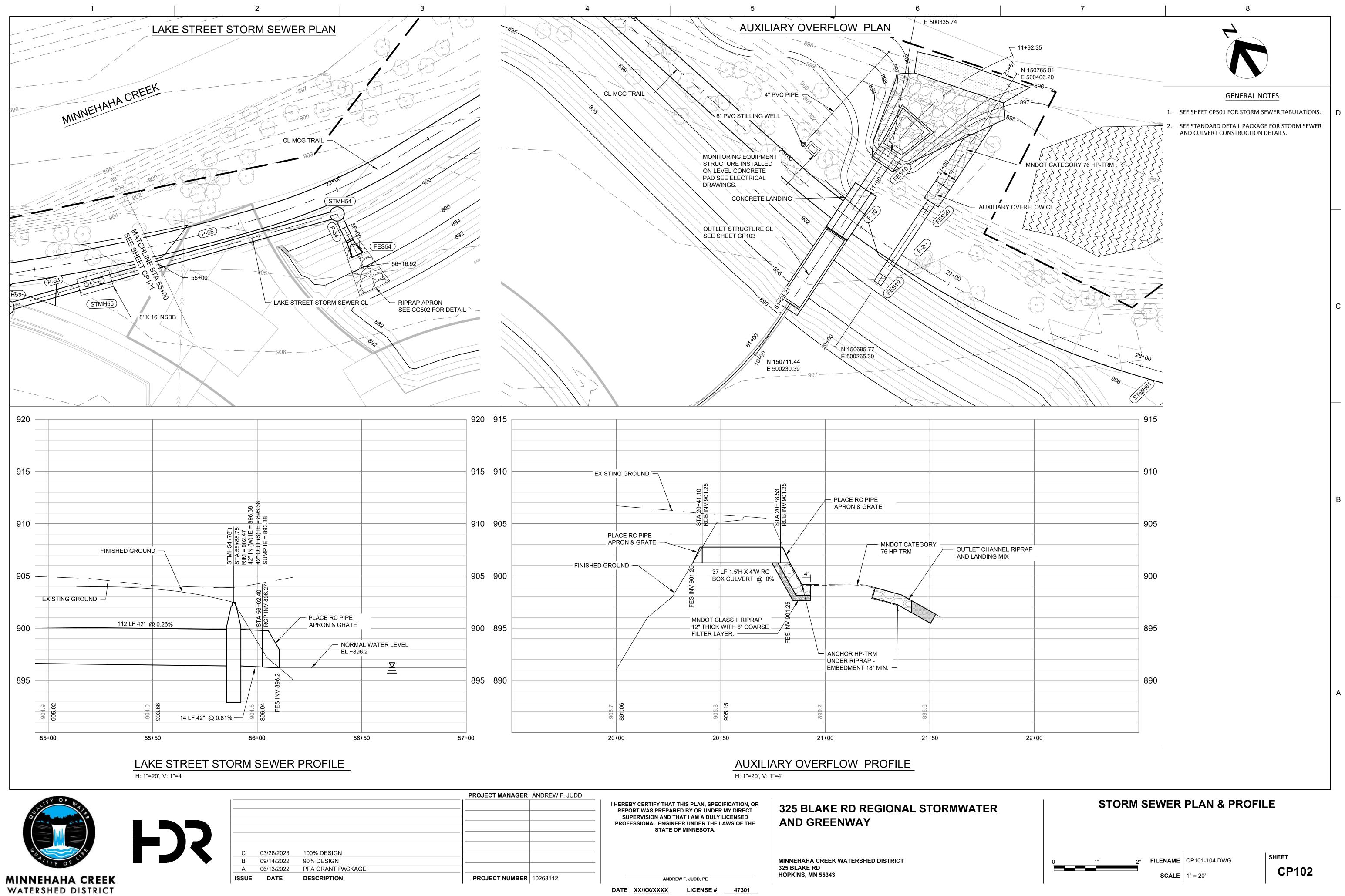
TRAIL CROSS SECTIONS MINNEHAHA CREEK GREENWAY TRAIL

FILENAME CT201.DWG SCALE HORIZONTAL: 1" = 20' SHEET CT202

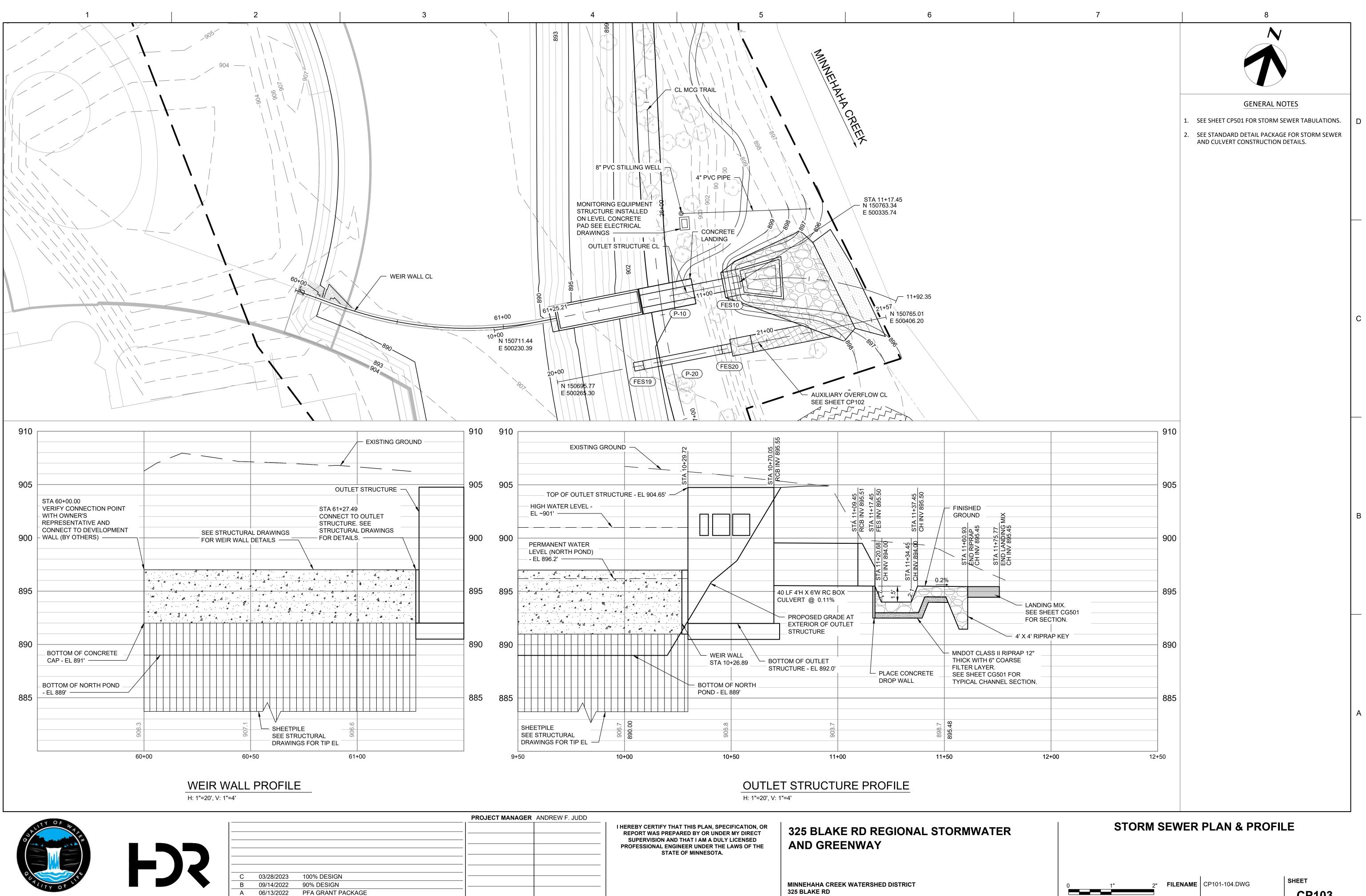


DESCRIPTION

	OJECT MANAGER				I HEREBY CERTIFY THAT THIS REPORT WAS PREPARED E SUPERVISION AND THAT PROFESSIONAL ENGINEER I STATE OF MI	BY OR UNDER MY I AM A DULY LICE UNDER THE LAWS INNESOTA.	DIRECT	AN MINN 325 F	ND GRE	E RD REGION ENWAY		RM	WAT
52+				+50	53-	+00		53	+50	54+(00		
0.708	907.95		907.1	906.61	00 0.0 0.0	907.05		906.5	907.65	STMH55 CENTER OF NSBB S 8' x 16' NSBB (7.25' NSBB DEPTH) 42" IN EI = 896.70 42" OUT IE = 896.70 SUMP IE = 893.70)		
<u>a</u> 0.:	30%		S		FE 4 94 LF 42" @ 0.30%			SEE N	NOTE 4 95	5 LF 42" @ 0.31%			SE
		STMF	42" IN =	SUME	OTHERS		STA STA RIM	42" 42" 8UM				\bigwedge	<u>```</u>



DATE XX/XX/XXXX LICENSE # 47301



PFA GRANT PACKAGE DATE DESCRIPTION

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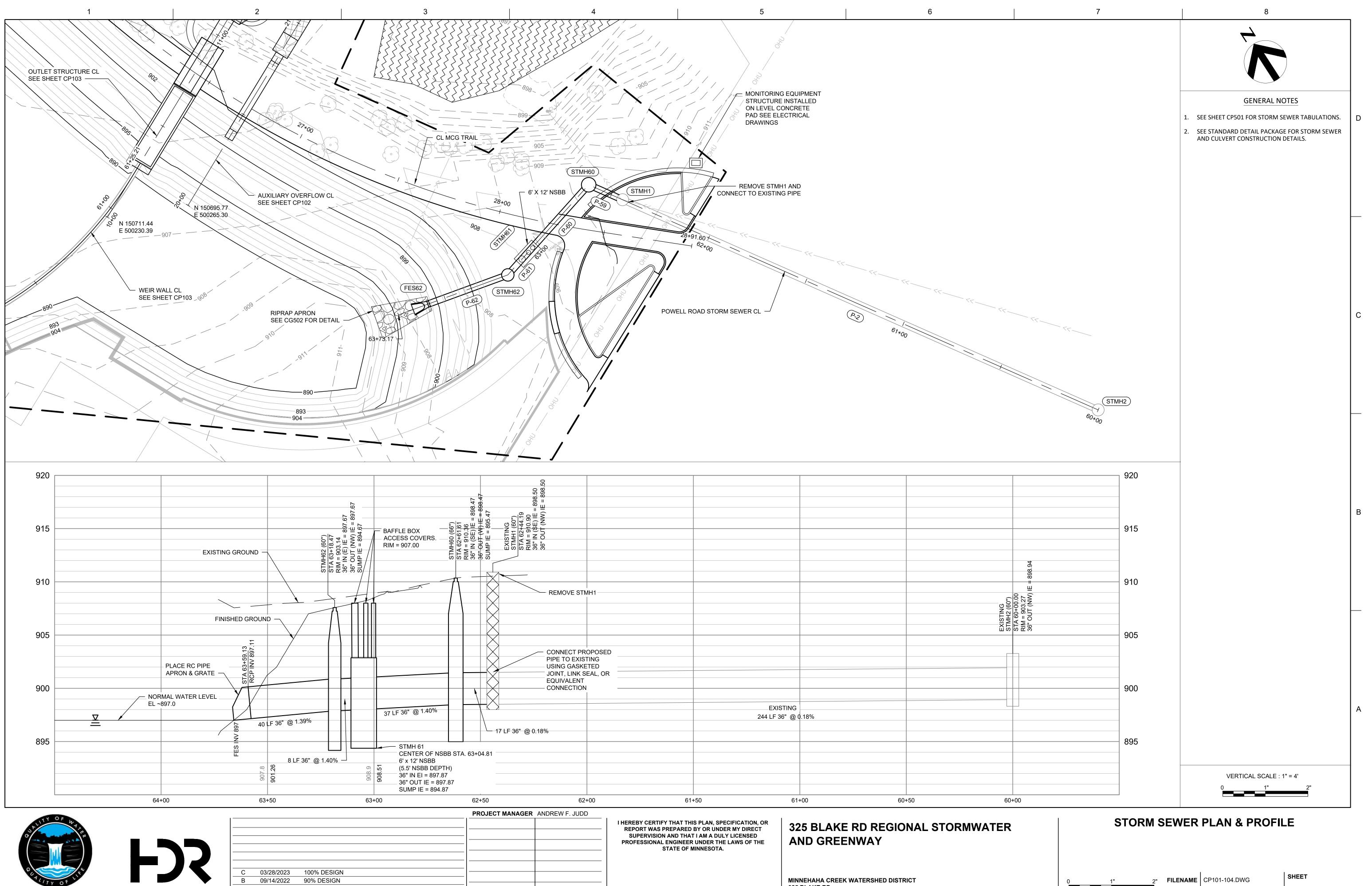
PROJECT MANAGER	ANDREW F. JUDD
PROJECT NUMBER	10268112
PROJECT NUMBER	10268112

ANDREW F. JUDD, PE

DATE XX/XX/XXXX LICENSE # 47301

325 BLAKE RD HOPKINS, MN 55343

SCALE 1" = 20'



PFA GRANT PACKAGE A 06/13/2022 DATE DESCRIPTION

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ISSUE

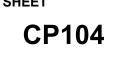
62+50	62+00
PROJECT MANAGER	ANDREW F. JUDD
PROJECT NUMBER	10268112

ANDREW F. JUDD, PE

DATE <u>XX/XX/XXXX</u> LICENSE # <u>47301</u>

MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343

	EXISTING EXISTING STMH1 (60") STA 62+44.19 RIM = 910.90 36" IN (\$E) IE = 898.50 36" OUT (NW) IE = 898.50				
~	.50				
8.47 98.4	808 808 111				
898 = 89 47	∑ <u>2</u> <u>1</u> <u>3</u> <u>4</u> <u>5</u> <u>4</u> <u>5</u> <u>6</u> <u>9</u> <u>8</u>				
2 ≝ ∰ 88	- 44. (00" SE) 10.9 (NN)				
36" IN (SE) IE = 898.47 36" OUT (W) IE = 898.47 SI IMP IE = 805.47	= 311 (62- 0UT (62- 0UT (62-				
	2010 2010 2010 2010 2010 2010 2010 2010				
36" 36"					
	X				
	REMOVE ST	 			
	$\langle \rangle$				
	\bigtriangleup				
	X				
	Χ				
		ROPOSED			
	PIPE TO EXIS USING GASK	STING (ETED			
f	JOINT, LINK EQUIVALENT	SEAL, OR			
		Г N ————————————————————————————————————			
• <		_			
—\-	\bigtriangleup		EXISTING		
			244 LF 36" @ 0	0.18%	
	- 17 LF 36" @ 0.18%				
00.04.0					
63+04.8	31 				
62+50	62	2+00 61	1+50 61-	+00 60	+50



	1			2						3					4					5	
								STO	RM	SEW		BUL	ΑΤΙΟ	DN							
			DRAINAGE STRUC	CTURE											DOWNSTR	EAM PIPE					
	STRUCTU	RE LOCATI	ON				CASTING			UPSTREAM	DRAINS	то	36"	42"	36"	42"		CONNECT TO	1		
STRUCTURE	ALIGN.	STATION	NORTHING EASTING	TYPE	DESIGN			TOP ELEV	STEPS REQ'D	INVERT	STRUCTURE	SLOPE	RCP CL III	RCP CL III	RCP CL V	RCP CL V	DOWNSTREAM	EXISTING STORM	APRON	APRON TYPE	REMARKS
	ALIGN.						TYPE			ELEV	ID	(%)	LIN FT	LIN FT	LIN FT	LINFT		EACH	EACH	-	
STMH06	LAKE STREET STORM SEWER	50+76.59	151128.02 499544.14	MH				907.45		897.85	STMH50	0.30		73			897.63	1		-	Existing structure
STMH50	LAKE STREET STORM SEWER	51+49.10	151156.851 499610.66	MH	72-4020	13.67	A-7	908.30	Y	897.63	STMH51	0.30		86			897.37				
STMH51	LAKE STREET STORM SEWER	52+35.37	151094.01 499669.77	СВ	72-4020	12.44	By Others	906.81	Y	897.37	STMH52	0.30		94			897.09				10
STMH52	LAKE STREET STORM SEWER	53+29.86	151071.316 499761.50	СВ	84-4020	13.03	By Others	907.12	Y	897.09	STMH53	0.31		95			896.80				10
STMH53	LAKE STREET STORM SEWER	54+24.59	151019.694 499840.93	СВ	84-4020	15.03	By Others	908.83	Y	896.80	STMH55	0.26		36			896.70				10
STMH55	LAKE STREET STORM SEWER	54+67.74	151008.817 499883.25	NSBB	4	10.25		906.59 (6)		896.70	STMH54	0.26		112			896.38				
STMH54	LAKE STREET STORM SEWER	55+88.75	150978.882 499999.94	MH	78-4020	9.09	A-7	902.47	Y	896.38	FES54 (7)	0.81				14 (9)	896.20 (8)		1	RC APRON	
STMH1	POWELL ROAD STORM SEWER	62+44.19	150588.16 500438.71	MH						898.50	STMH60	0.18	17				898.47	1			Existing structure to be removed
STMH60	POWELL ROAD STORM SEWER	62+61.61	150602.663 500429.08	MH	66-4020	14.89	A-7	910.36	Y	898.47	STMH61	1.40	37				897.87				
STMH61	POWELL ROAD STORM SEWER	63+04.81	150591.152 500387.34	NSBB	(4)	8.50		907.00 6		897.87	STMH62	1.40	8				897.67				
STMH62	POWELL ROAD STORM SEWER	63+18.47	150587.419 500374.29	MH	60-4020	8.47	A-7	903.14	Y	897.67	FES62 (7)	1.22			40 (9)		897.00 (8)		1	RC APRON	

OUTF	ALL	PIPE	TABUL	ATION

	OUTFALL PIPE TABULATION								
STRUCTURE	ALIGN.	UPSTREAM	SLOPE (%)	DOWNSTREAM	4Hx6W RC BOX CULVERT	1.5Hx4W RC BOX CULVERT	APRON	APRON TYPE	REMARKS
					LIN FT	LIN FT	EACH		
								ΤΥΡΕ Ι	
P-10	OUTLET STRUCTURE CL	895.55	0.11	895.5	40		1	SINGLE	
				8	9			BARREL	
								ΤΥΡΕΙ	
P-20	AUXILIARY OVERFLOW CL	901.25	0	901.25		37	2	SINGLE	
		8		8				BARREL	

				PROJECT MANAGER	ANDREW F. JUDD
FLITYOFWY					
C C C C C C C C C C C C C C C C C C C					
	C	03/28/2023	100% DESIGN	 	
ALITY OF	В	09/14/2022	90% DESIGN		
	Α	06/13/2022	PFA GRANT PACKAGE		
AINNEHAHA CREEK	ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10268112
WATERSHED DISTRICT					

4	5	

SPECIFIC NOTES:

- (1) CENTER OF CASTING (GRATE OR COVER).
- ③ DEPTH CALCULATED AS RIM ELEVATION STRUCTURE INVERT (INCLUDES SUMP).
- (3) FOR SPECIFIC CASTING ASSEMBLY SUMMARY SEE MNDOT STANDARD PLATES 4101 AND 4110.
- ④ SEE SPECIFICATIONS FOR NUTRIENT SEPARATING BAFFLE BOX (NSBB) DETAILS.
- 5 NSBB DEPTH REFERS TO STRUCTURE DEPTH WITH A 3' SUMP.
- 6 RIM ELEVATION FOR NSBB ACCESS COVERS.
- (7) FES54 LOCATED AT STATION 56+02.40. FES62 LOCATED AT STATION 63+59.13.
- 8 INVERT IS GIVEN AT THE END OF APRON.
- 9 TIE JOINTS IN THIS PIPE SEGMENT.
- (1) COORDINATE WITH OWNER'S REPRESENTATIVE FOR FUTURE DEVELOPER CONNECTION.

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

ANDREW F. JUDD, PE

DATE XX/XX/XXXX LICENSE # 47301

325 BLAKE RD REGIONAL STORMWATER AND GREENWAY

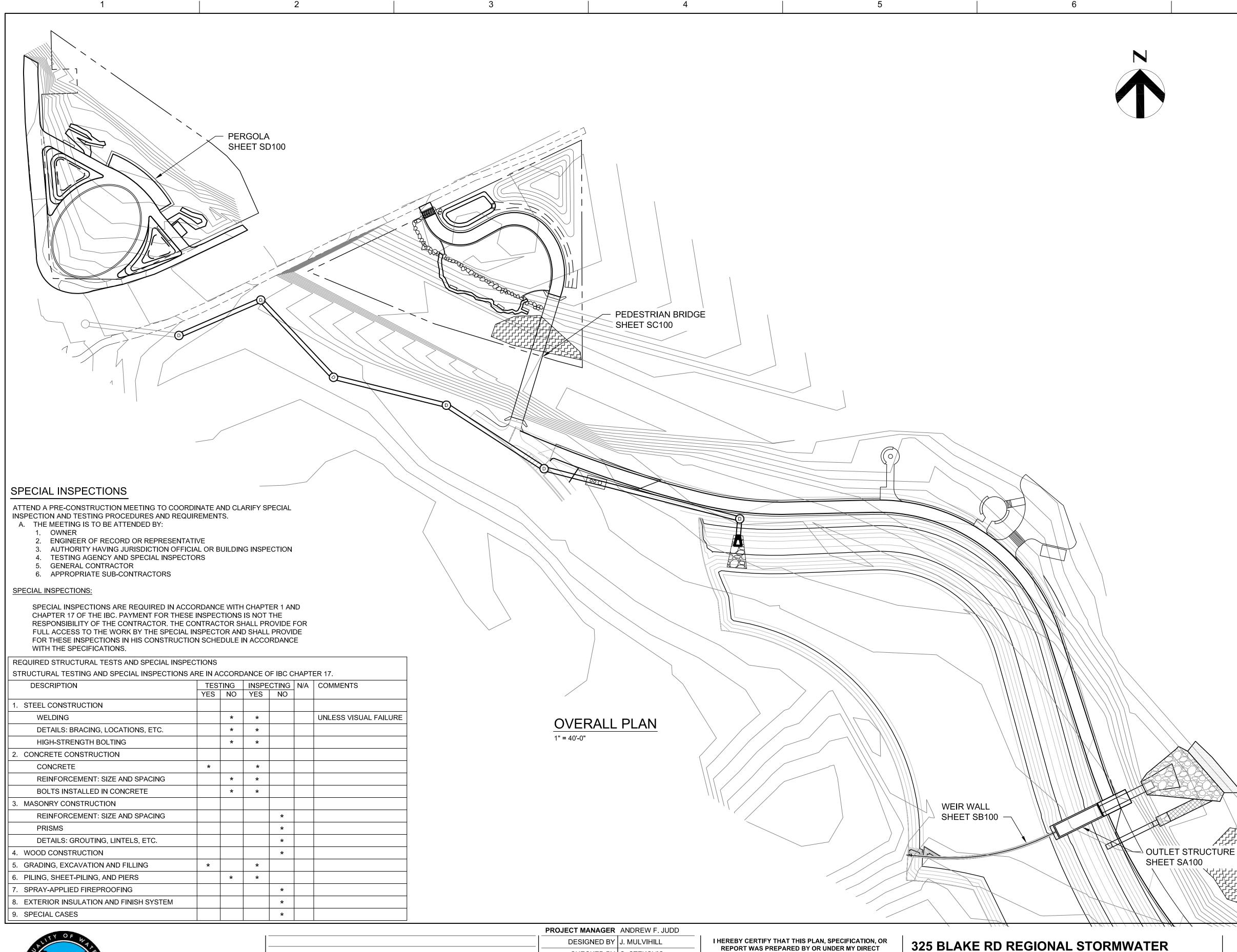
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MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343

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	 INVERT ELEVATIONS ARE GIVEN AT CENTER OF STRUCTURES. PIPE LENGTHS ARE FROM CENTER TO CENTER OF STRUCTURE. IF STEPS REQUIRED, STRUCTURE TO INCLUDE MANHOLE STEPS 16" ON CENTER. SEE MNDOT STANDARD PLATE 4180. ALL PIPE JOINTS SHALL BE TIED FROM APRON TO THE FIRST STRUCTURE. PIPE TIES SHALL BE INCIDENTAL. ALL CONCRETE PIPE SEWER DESIGN 3006 GASKET JOINT PIPE. APRON STATIONS ARE GIVEN AT THE UPSTREAM END OF APRON. 	D
		С
		в
STORM SE		J

0	1"	2'

SCALE NA





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3	03/28/2023	100% DESIGN
2	09/14/2022	90% DESIGN
1	06/13/2022	PFA GRANT PACKAGE
ISSUE	DATE	DESCRIPTION

	PROJECT MANAGER	ANDREW F. JUDD
	DESIGNED BY	J. MULVIHILL
_	CHECKED BY	G. STEKOVIC
_	DRAWN BY	G. STEKOVIC
_		
_		
_		
	PROJECT NUMBER	10268112

REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

JEROME W. MULVIHILL, PE

DATE <u>03/28/2023</u> LICENSE # <u>41241</u>

325 BLAKE RD REGIONAL STORMWATER **AND GREENWAY**

MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343

	7		8				
GEN	IERAL:						
	<u>SCOPE</u>	<u>.</u>					
	AND AF EXCEP STRUC	THE NOTES ON THIS SHEET AND THE STANDARD STRUCTURAL DETAILS ARE GENERAL AND APPLY TO THE ENTIRE PROJECT WHETHER SPECIFICALLY CALLED OUT OR NOT, EXCEPT WHERE THERE ARE SPECIFIC INDICATIONS TO THE CONTRARY ON STRUCTURAL SHEETS. IF THERE ARE QUESTIONS, THEY SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND ANSWERED IN WRITING PRIOR TO CONSTRUCTION.					
	<u>APPLIC</u>	ABLE SPECIFICATIONS	AND CODES:				
A. B. C. D.	2018 IN ACI 318 ACI 350 STRUC)-06 CODE REQUIREME TURES		ETE			
	STAND	ARD DETAILS:					
	THE ST CONDI ⁻ SIMILAI	STANDARD DETAILS: THE STANDARD DETAILS DEPICT TYPICAL DETAILING TO BE USED ON THIS PROJECT. IF CONDITIONS ARE NOT EXPLICITLY SHOWN ON THE DRAWINGS THEY SHALL BE MADE SIMILAR TO THE STANDARD DETAILS. OBTAIN APPROVAL OF ENGINEER IN WRITING FOR SIMILAR CONDITIONS PRIOR TO CONSTRUCTION.					
MAT	ERIAL						
	DESIGN	N STRENGTHS:					
		DRCEMENT A	4000 PSI @ 28 DAYS ASTM A615 GRADE 60 3,000 PSI @ 28 DAYS				
	STEEL:						
	W-SHA HSS-SH SHEET PED BR	IAPE A PILING A RIDGE C	ASTM A992 GRADE 50 ASTM A500 GRADE B ASTM A328 GRADE 50 GALVANIZED STEEL ASTM A500 TUBING ASTM A572 PLATES & OTHER SHAPE	ES GRADE 50			
		UCKLES A	ASTM A1023 ASTM A182, GRADE F316 ASTM A36				
	STRUCT	ION NOTES:					
	EXCAVATION:						
	CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TEMPORARY SHEETING AND BRACING NECESSARY TO PROTECT PERSONNEL AND ADJACENT.						
	CONCRETE:						
Α.	LAP SP	LICES AND 90 DEGREE	HOOKS SHALL BE AS INDICATED D	ELOW			
		BAF	R SCHEDULE]			
				4			

	BAR SCHEDULE					
BAR SIZE	LAP	TOP*	90° HOOK			
#3	19"	24"	6"			
#4	25"	32"	8"			
#5	31"	40"	10"			
#6	37"	48"	12"			
#7	47"	61"	15"			
#8	53"	69"	19"			

* DENOTES TOP BAR SPLICES ARE HORIZONTAL REINFORCEMENT WITH 12" OR MORE OF CONCRETE CAST BELOW SPLICE.

- B. REINFORCING BARS SHALL HAVE THE FOLLOWING CONCRETE COVER UNO: a. CONCRETE CAST AGAINST EARTH 3"
- b. ALL OTHER CONCRETE 2" C. ALL DOWELS THROUGH FORMED SURFACES SHALL BE THREADED OR EQUIPPED
- WITH ADEQUATE LAP SPLICE. CONCRETE SHALL BE PLACED WITHOUT CONSTRUCTION JOINTS EXCEPT WHERE D.
- SPECIFICALLY SHOWN ON THE DRAWINGS OR AS APPROVED BY THE EOR. E. BEVEL ALL EXPOSED CONCRETE 3/4" X 3/4" UNO.

SITE PLAN AND STRUCTURAL NOTES

FILENAME S001.DWG

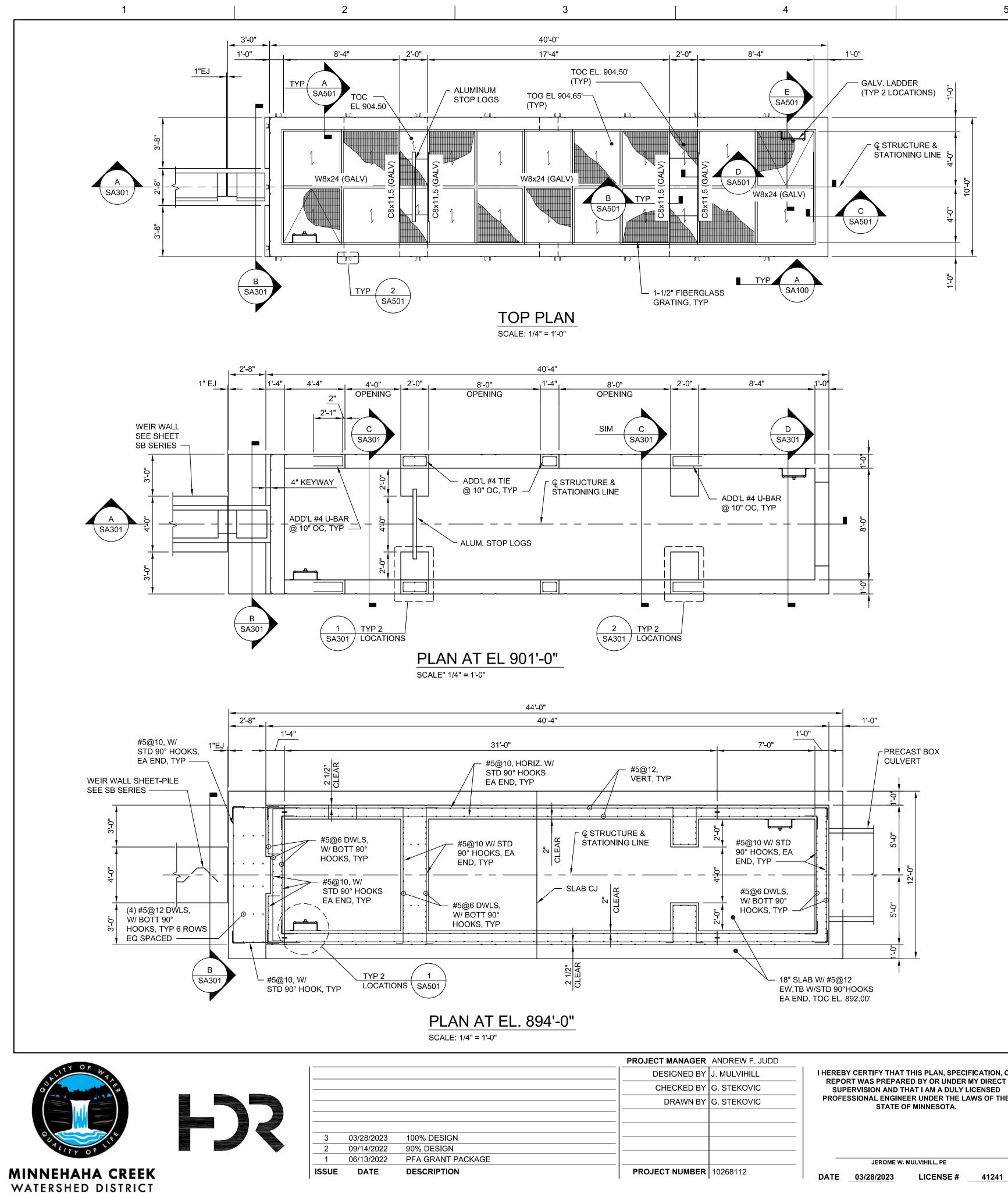
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	PROJECT MANAGER	ANDREW F. JUDD
	DESIGNED BY	J. MULVIHILL
_	CHECKED BY	G. STEKOVIC
_	DRAWN BY	G. STEKOVIC
_		
-		
_	PROJECT NUMBER	10268112
		•

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

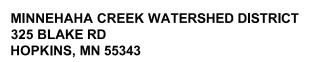
325 BLAKE RD REGIONAL STORMWATER AND GREENWAY

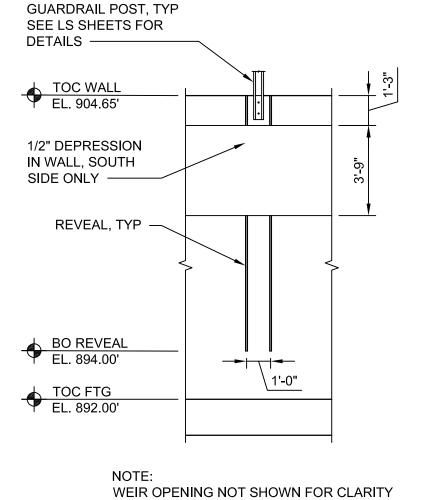
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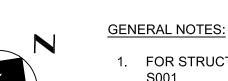
SA100 /

SECTION

SCALE: 1/4" = 1'-0"







- 1. FOR STRUCTURAL GENERAL NOTES, SEE SHEET S001.
- 2. FOR STRUCTURAL DETAILS, SEE SHEET SA501 SERIES.
- 3. REVEALS IN WALLS AS SHOWN. FOR REVEAL DETAIL SEE SA501.
- 4. FOR GUARDRAIL DETAILS REFERENCE LS SHEETS.

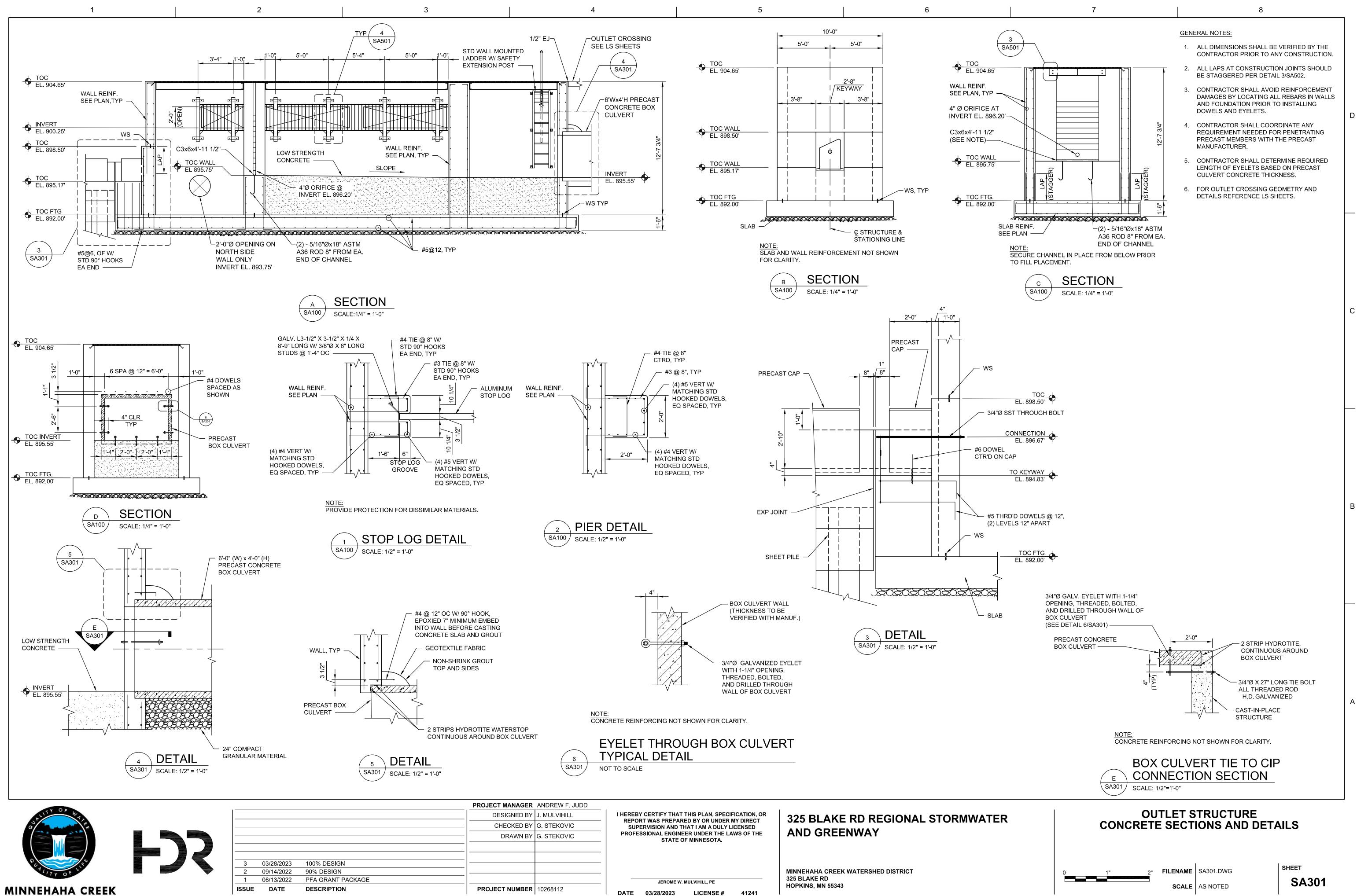
OUTLET STRUCTURE FOUNDATION, PLANS, & SECTION

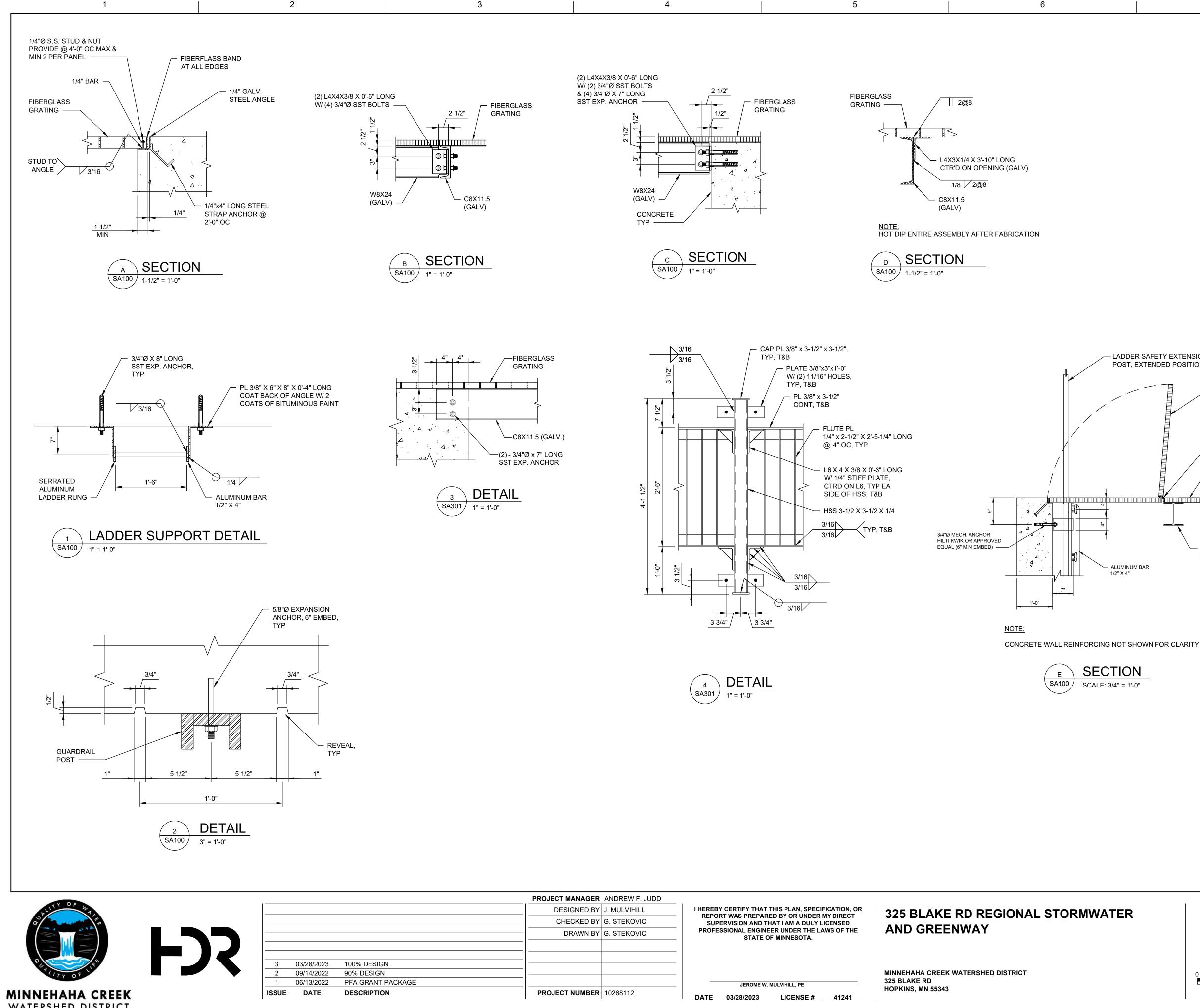
FILENAME SA100.DWG **SCALE** 1/4" = 1'-0"

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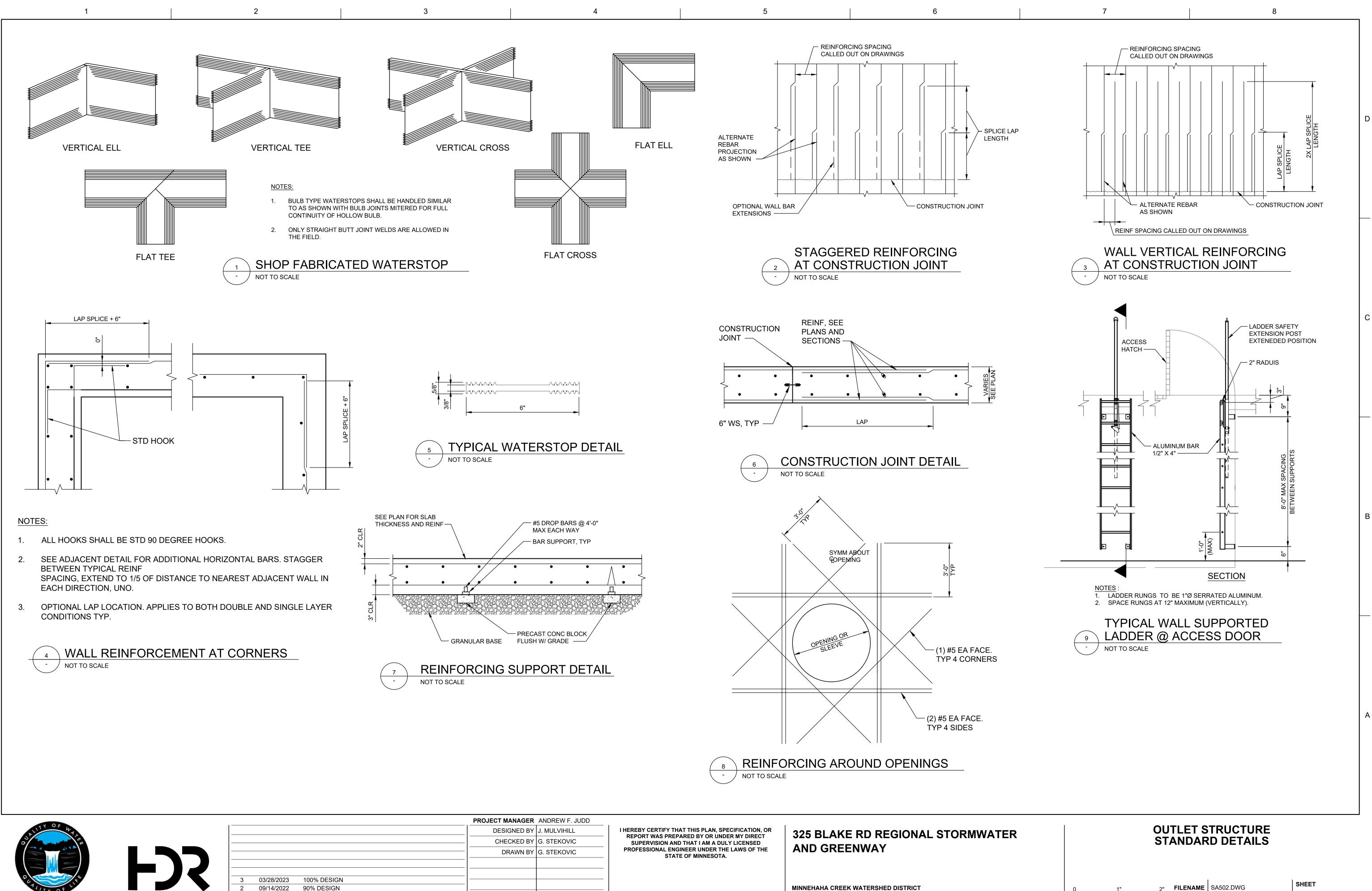
OUTLET STRUCTURE 325 BLAKE RD REGIONAL STORMWATER **STEEL SECTIONS AND DETAILS** SHEET FILENAME SA501.DWG SA501 SCALE AS NOTED

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	o
	GENERAL NOTES:
	1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
	2. CONTRACTOR TO COORDINATE LOCKING MECHANISM FOR GRATING HATCH WITH THE FIBERGLASS GRATING MANUFACTURER.
	3. LADDER SAFETY SYSTEM SHALL COMPLY WITH OSHA REQUIREMENTS.
	4. FIBERGLASS GRATING AND APPURTENANCES TO BE SIZED BY THE FIBERGLASS GRATING MANUFACTURER.
ADDER SAFETY EXTENSION	
OST, EXTENDED POSITION	
GRATING ACCESS HATCH W/ HATCH LOCK	
GRATING HATCH	
HINGE (TYP)	
FIBERGLASS GRATING TOG EL. 904.65'	

- W8X24 GALVANIZED

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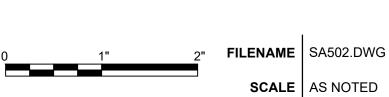


MINNEHAH	A CREEK
WATERSHED	DISTRICT

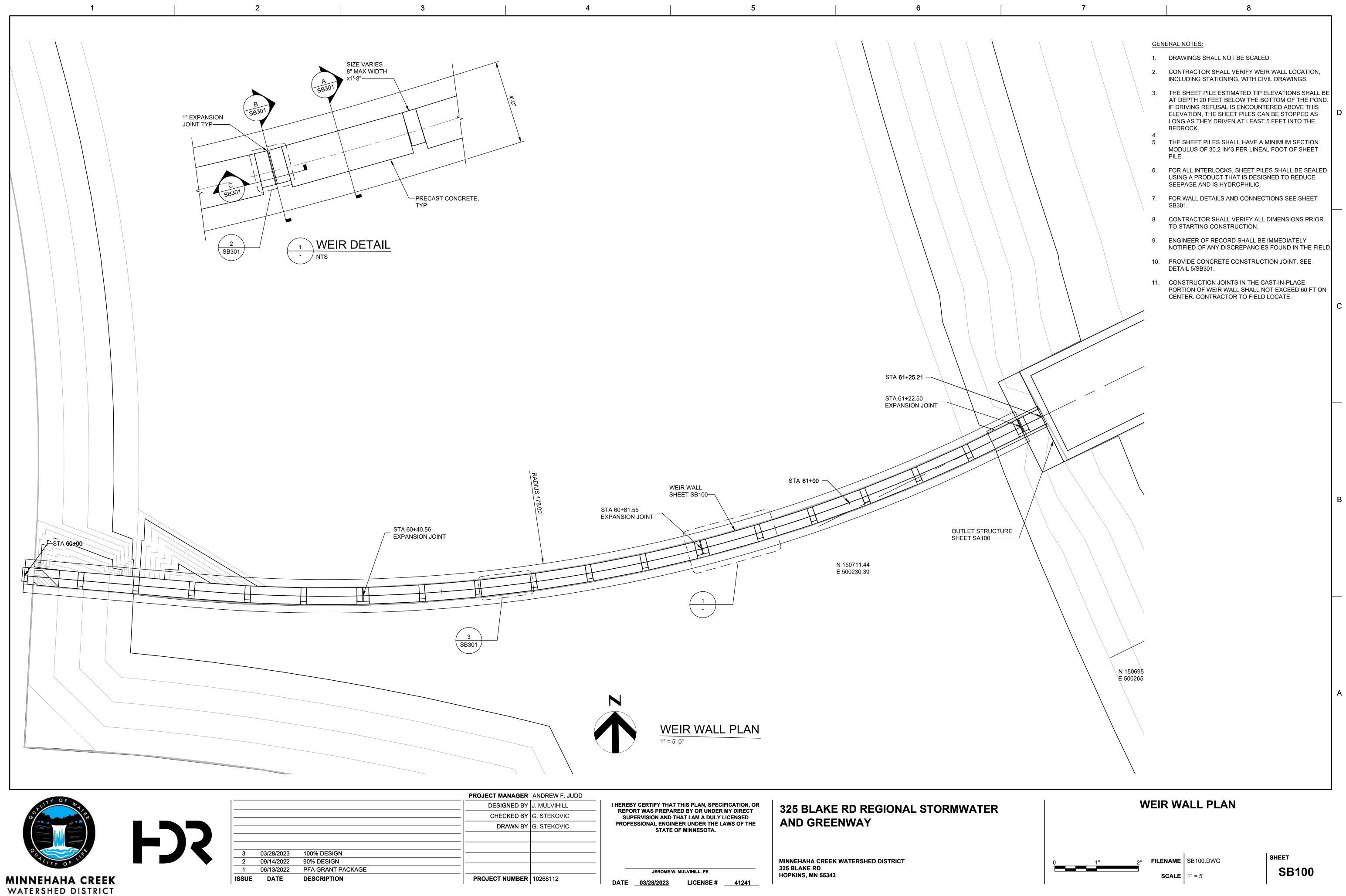
100% DESIGN 03/28/2023 90% DESIGN 09/14/2022 06/13/2022 PFA GRANT PACKAGE 1 ISSUE DATE DESCRIPTION

	PROJECT MANAGER	ANDREW F. JUDD		
_	DESIGNED BY	J. MULVIHILL	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER MY DIRECT	325
_	CHECKED BY	G. STEKOVIC	SUPERVISION AND THAT I AM A DULY LICENSED	
_	DRAWN BY	G. STEKOVIC	PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	
-				
_				
_				
			JEROME W. MULVIHILL, PE	325 BL
_	PROJECT NUMBER	10268112	DATE 03/28/2023 LICENSE # 41241	

NEHAHA CREEK WATERSHED DISTRICT BLAKE RD KINS, MN 55343



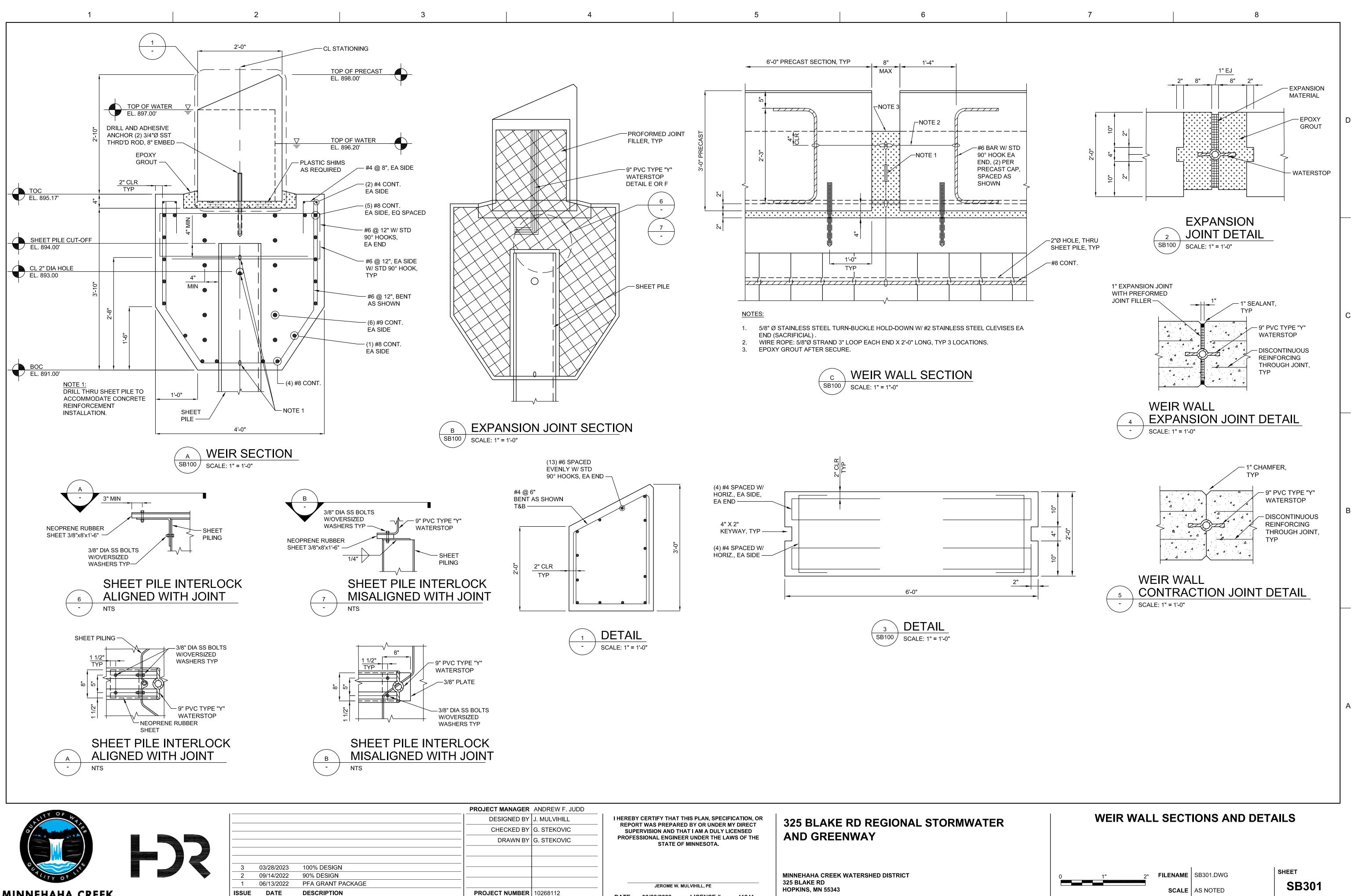
SHEET SA502



MINNEHAHA CREEK WATERSHED DISTRI
325 BLAKE RD
HOPKINS, MN 55343







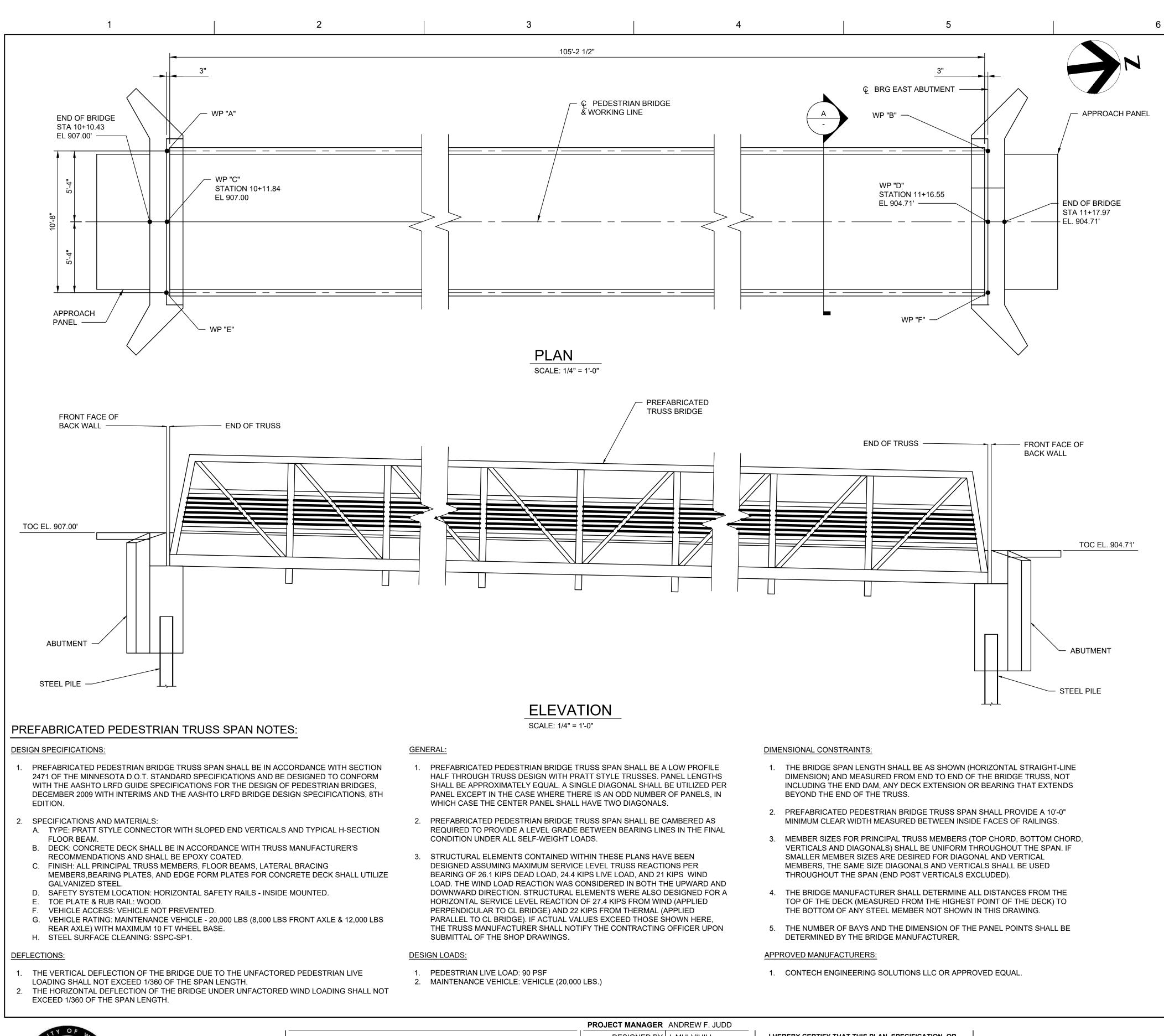
MINNEHAHA CREEK WATERSHED DISTRICT



PROJECT NUMBER 10268112

DATE 03/28/2023

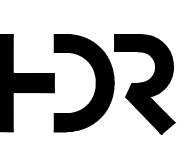
LICENSE # 41241



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MINNEHAHA CREEK

WATERSHED DISTRICT



ISS

UE	DATE	DESCRIPTION
	06/13/2022	PFA GRANT PACKAGE
	09/14/2022	90% DESIGN
	03/28/2023	100% DESIGN

DESIGNED BY J. MULVIHILL CHECKED BY G. STEKOVIC DRAWN BY G. STEKOVIC PROJECT NUMBER 10268112

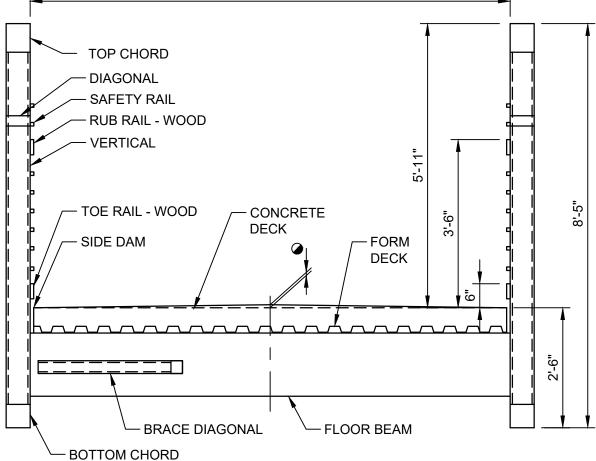
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JEROME W. MULVIHILL, PE DATE 03/28/2023 LICENSE # 41241

325 BLAKE RD REGIONAL STORMWATER AND GREENWAY

MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343

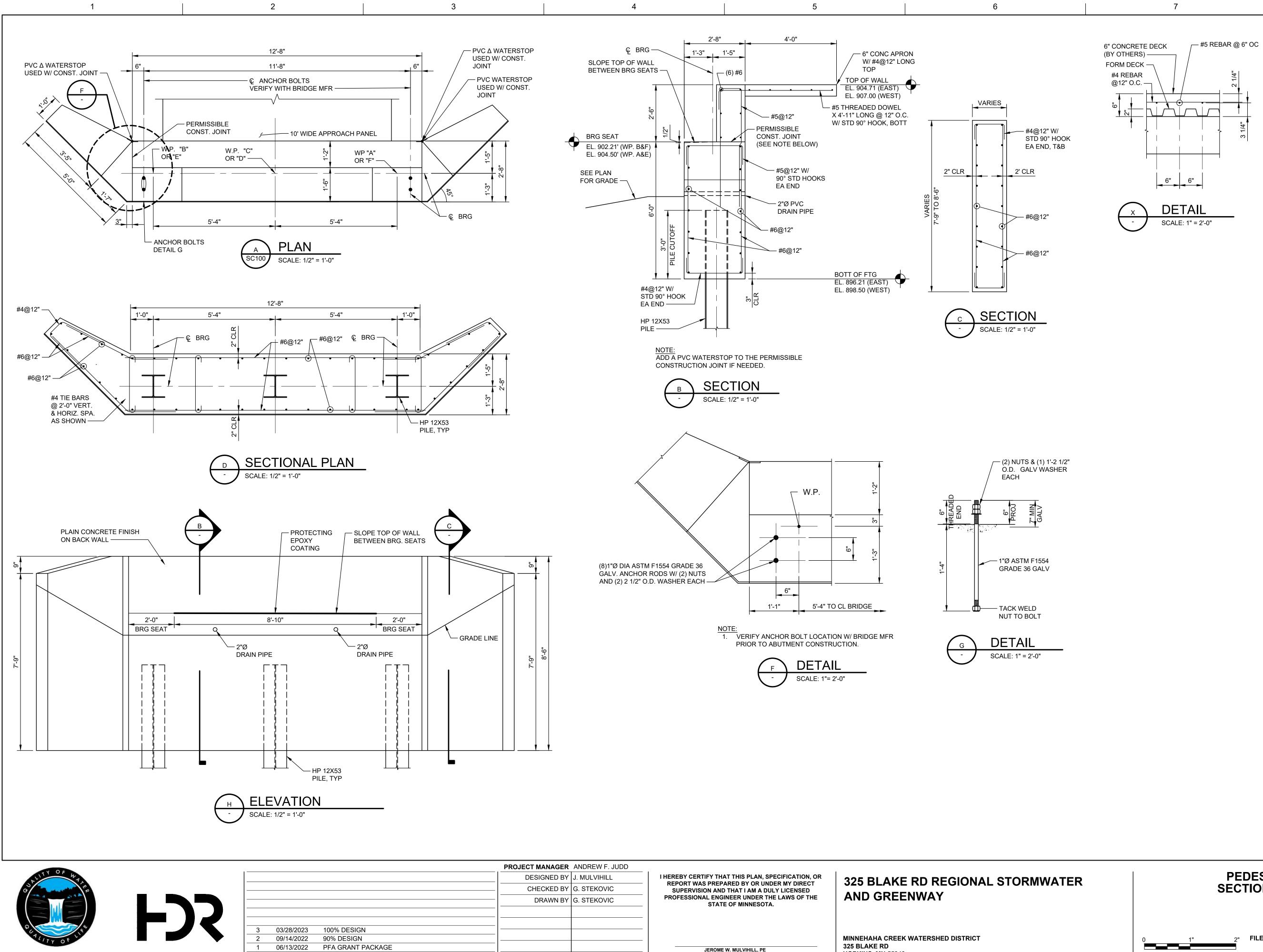
7		8
	GE	ENERAL NOTES:
	1. DF	RAWINGS SHALL NOT BE SCALED
	FIL	ONTRACTOR SHALL DRESS SLOPES AND PLACE LTER MATERIALS AND RIPRAP IN AREAS SHOWN N THIS SHEET AS DIRECTED BY THE ENGINEER.
	SH LC GF EX DE CC	CAVATE TO THE BOTTOM OF THE ELEVATION HOWN FOR EACH SUBSTRUCTURE UNIT AS THE OWER LIMIT AND THE PROPOSED FINISHED RADE FOR THE UPPER LIMIT. THE EXTENT OF CAVATION INCLUDING BACK SLOPE ANGLE TO BE ETERMINED DURING CONSTRUCTION BY THE ONTRACTOR DEPENDING ON THE SOIL ROPERTIES AND OR SAFETY FACTORS.
		ERIFY ENGINEERED BRIDGE DIMENSIONS BEFORE DNSTRUCTING SUBSTRUCTURE UNITS.
		ACKFILL FRONT AND BACK SIDES OF ABUTMENT IN QUAL LIFTS.
	FL SE BL HE	DLYVINYL CHLORIDE WATERSTOP TO EXTEND JLL WIDTH OF ABUTMENT SEAT & VERTICAL FROM EAT TO TOP OF WINGWALL. PCW SHALL BE JTT-SPLICED AT ALL INTERSECTIONS BY USING A EATED SPLICING IRON. HOLD FLUSH TO DNCRETE.
	FC TC TH RE OC RA TII	-SHAPE PILING (3 PER ABUTMENT) ARE DESIGNED OR AN ALLOWABLE COMPRESSION LOAD OF 60 ONS BEARING ON BEDROCK WHICH WILL REQUIRE IAT THE PILES ARE DRIVEN TO REFUSAL. EFUSAL IN BEDROCK IS CONSIDERED TO HAVE CCURRED WHEN THE DRIVING PENETRATION ATE REACHES 10 BLOWS PER INCH AND THE PILE P IS NEAR THE ESTIMATED BEDROCK ELEVATION 5 832.00.
		C
	10'-0"	>



TYPICAL BRIDGE DECK CROWN SHALL TRANSITION TO A LEVEL DECK OVER A DISTANCE OF 8'-0 AT EACH END OF THE BRIDGE. EDGE OF DECK THICKNESS SHALL REMAIN CONSTANT ALONG ENTIRE LENGTH OF BRIDGE.

PEDESTRIAN BRIDGE PLAN, SECTION **AND NOTES**

Α



MINNEHAH	A CREEK
WATERSHED	DISTRICT

DATE DESCRIPTION

ISSUE

PROJECT MANAGER	ANDREW F. JUDD		
DESIGNED BY	J. MULVIHILL	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR	325 BLAKE RD REGIONAL STORMWAT
CHECKED BY	G. STEKOVIC	REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED	
DRAWN BY	G. STEKOVIC	PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	AND GREENWAY
			MINNEHAHA CREEK WATERSHED DISTRICT
		JEROME W. MULVIHILL, PE	325 BLAKE RD
PROJECT NUMBER	10268112	DATE 03/28/2023 LICENSE # 41241	HOPKINS, MN 55343
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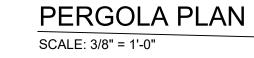
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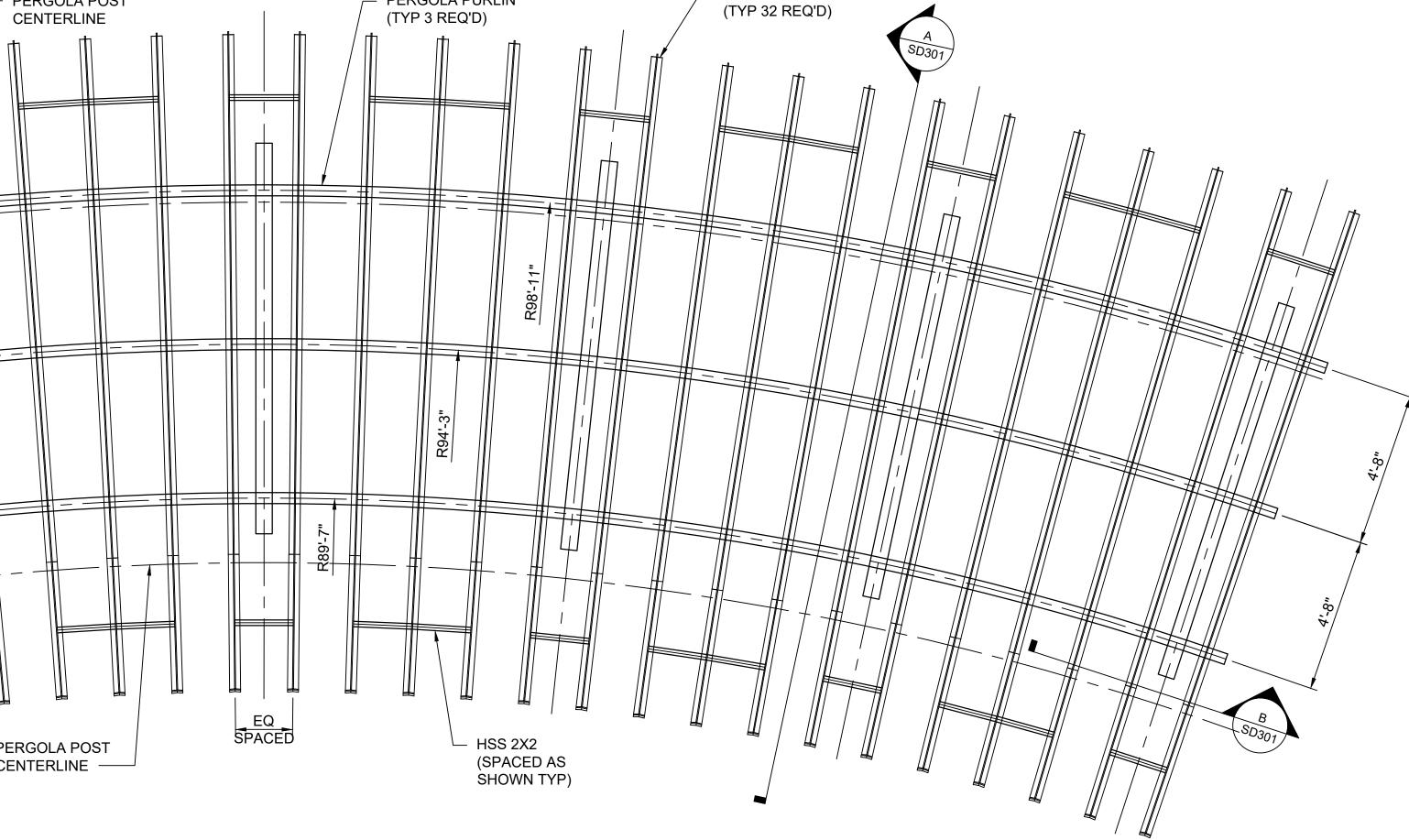
PEDESTRIAN BRIDGE SECTIONS AND DETAILS

FILENAME SC301.DWG SCALE AS NOTED

SHEET SC301

	2	3	4	5
	HSS 10 X 6 PERGOLA FRAME (TYP 7 REQD) —		PERGOLA PURLIN (TYP 3 REQD) Image: provide the second state s	PERCOLA LOUVER (TYP 32 REOT) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D
A A A A A A A A A A A A A A A A A A A		PROJECT MANAGER ANDRE DESIGNED BY J. MULY CHECKED BY G. STE DRAWN BY G. STE	/IHILL I HEREBY CERTIFY THAT THIS PLAN, SPECIFICAT KOVIC REPORT WAS PREPARED BY OR UNDER MY DI SUPERVISION AND THAT I AM A DULY LICENT	RECT J25 DLAKE RD REGIONAL STORIVIVVATER
MINNEHAHA CREEK WATERSHED DISTRICT	3 03/28/2023 100% DESIGN 2 09/14/2022 90% DESIGN 1 06/13/2022 PFA GRANT PACKAGE ISSUE DATE DESCRIPTION	PROJECT NUMBER 102681		MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343 1241







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GENERAL NOTES:

- 1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION.
- 2. ENGINEER-OF-RECORD SHALL BE NOTIFIED OF ANY DISCREPANCIES FOUND PRIOR TO CONTINUING CONSTRUCTION.
- 3. REFERENCE LS SHEETS FOR PERGOLA FINISH.

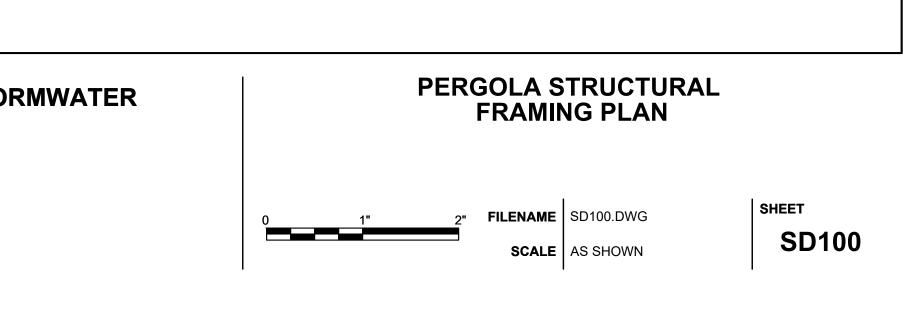
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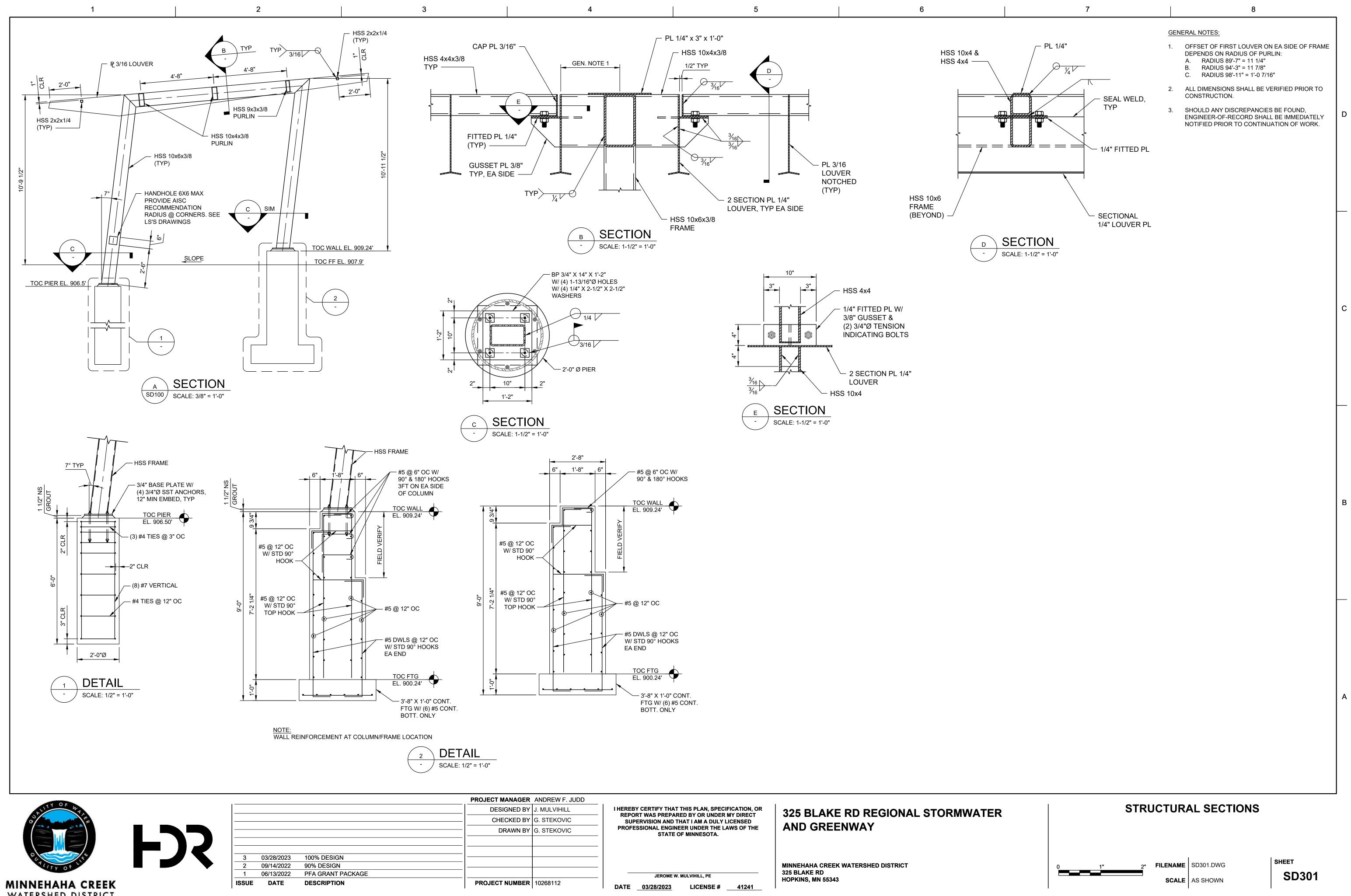
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4. FOR MATERIAL TYPES REFER TO SHEET S001.

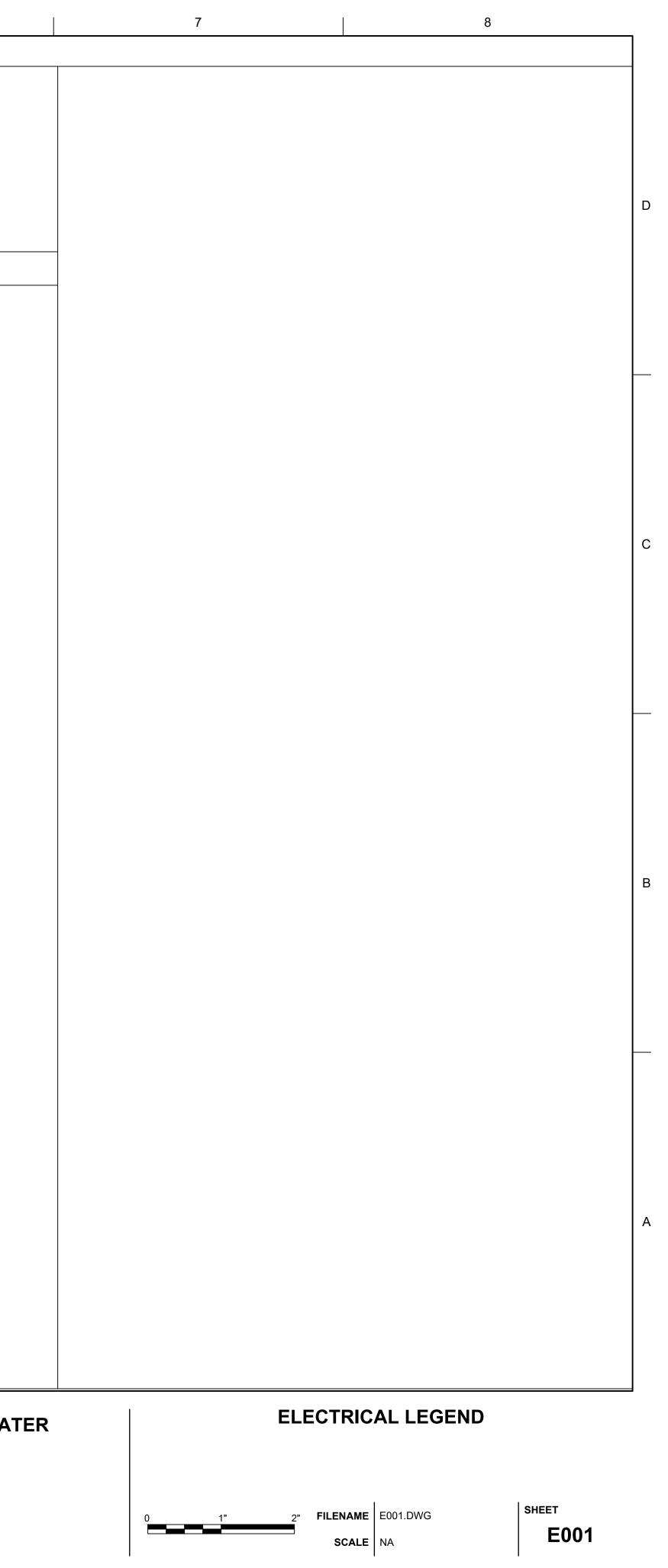


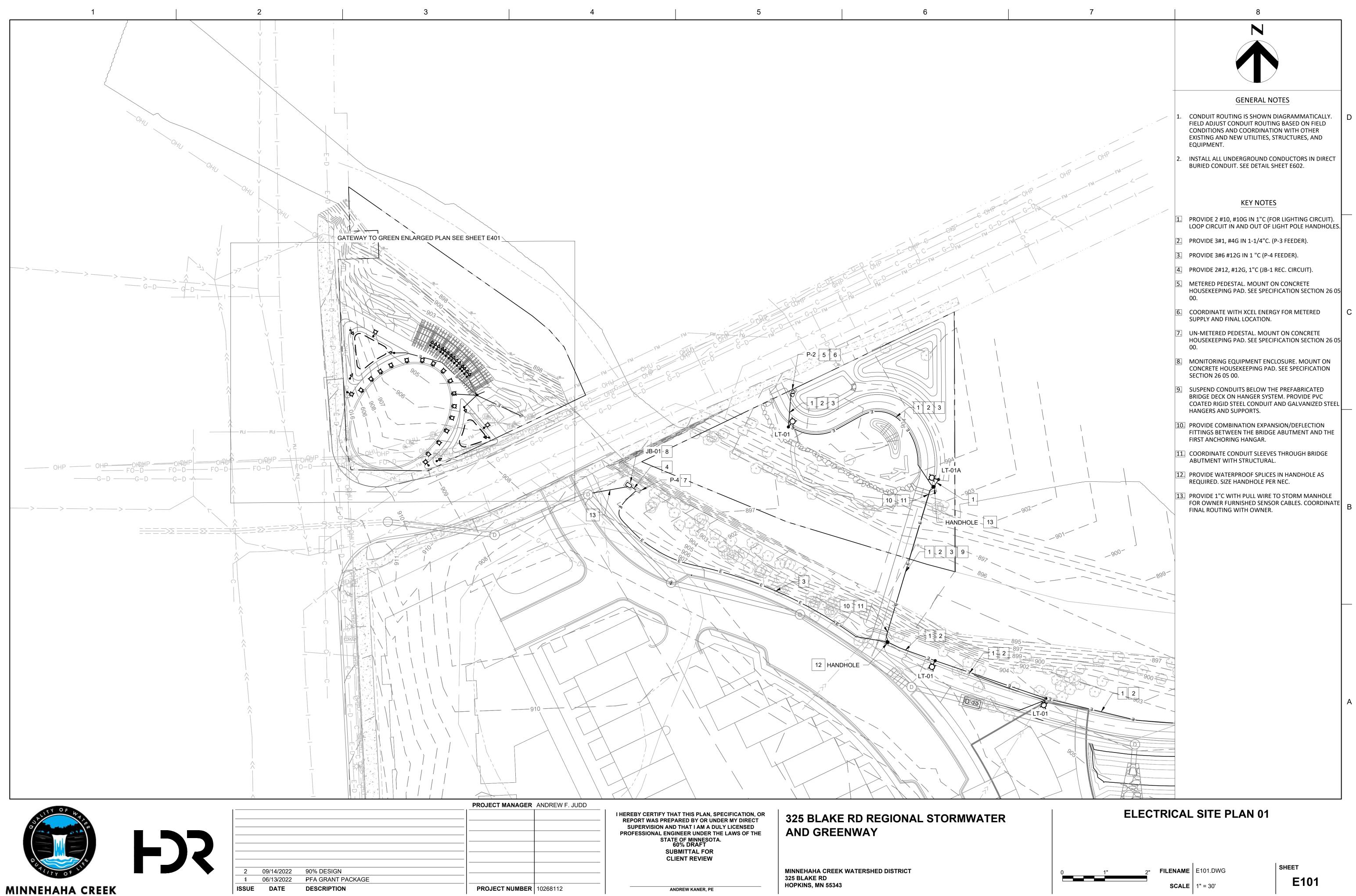


PROJECT MANAGER	ANDREW F. JUDD
DESIGNED BY	J. MULVIHILL
CHECKED BY	G. STEKOVIC
DRAWN BY	G. STEKOVIC
PROJECT NUMBER	10268112
	1

	JEROME W. MULVIHILL, PE					
ATE	03/28/2023	LICENSE #	41241			

	1	2	3	4		5	6
		ONE LINE, POWER AND	D LIGHTING SYME	BOLOGY		SITE SYMBOLOGY	
$ \mathbf{O} \mathbf{A} \mathbf{A} \mathbf{O} A$	X 100AF 80AT 3P X LOW VOLTAGE CIRCUIT BREAKER POLES AS SHOWN. WHEN SPECIF MCCB, IS REQUIRED, X INDICATES	(CB). RATING AND NO. OF IC TYPE, OTHER THAN STYPE.	$\underset{Y}{\overset{X}{\underset{Y}}}_{Y}^{X} \text{ or } \underset{Y}{\overset{X}{\underset{Y}}}$	TWO RECEPTACLES IN 2-GANG BOX UNDER COMM PLATE	MON COVER	POWER POLE	
	LSIGA TYPES:	TRIP UNIT:	μθ _y ^x	DUPLEX RECEPTACLE			IONE
	MCCB - MOLDED CASE ICCB - INSULATED CASE LVP - LOW VOLTAGE POWER	L - LONG TIME PICKUP S - SHORT TIME PICKUP I - INSTANTANEOUS PICKUP	ю _v	SIMPLEX RECEPTACLE	EE	UNDERGROUND ELECTRICAL AND COMMUNICAT SYSTEMS PATHWAY	IUNS
	MCP - MOTOR CIRCUIT PROTE (RATING PER CONNECT	ECTOR G - GROUND FAULT PICKUP	o	CONDUIT TURNING UP	OHE	OVERHEAD ELECTRICAL AND COMMUNICATION S	SYSTEMS PATHWAY
	LOAD)		•	CONDUIT TURNING DOWN			
LP100 208/120V 3Ø, 4W	SWITCHBOARD OR PANELBOARD; NAME, VO NUMBER OF WIRES WHEN INDICATED	DLTAGE, PHASE,	(#X)	HOMERUN TO PANEL SINGLE PHASE: 2#12, 1#12G IN 3/4"C THREE PHASE: 3#12, 1#12G IN 3/4"C UNLESS OTHERWISE NOTED, CONDUCTOR SIZE IS FOR ENTIRE CIRCUIT		CONTROL SYMBOLOGY	
100 KVA	NON-MOTOR LOAD WITH DESIGN KVA, KW, C	DR AMP		CONDUIT CONNECTION TO EQUIPMENT		ELECTRICAL CONNECTION	
	VOLTAGE TRANSFORMER (VT, PT, OR CPT)			CIRCUIT RUN BETWEEN DEVICES EXPOSED IN NON-ARCHITECTURALLY FINISHED AREAS; CONC ARCHITECTURALLY FINISHED AREAS. CONDUIT A	EALED IN I I	- NO ELECTRICAL CONNECTION	
£	CURRENT TRANSFORMER (CT)			CONDUCTOR SIZES SHALL BE THE SAME AS THE THE CIRCUIT. CONDUIT RUN BETWEEN DEVICES CONCEALED IN		CONTROL/RELAY COIL; X INDICATES TYPE, Y INDICATES LOOP NO. WHEN USED	
(WH)	UTILITY WATT-HOUR METER PER UTILITY RE	QUIREMENTS		NON-ARCHITECTURALLY FINISHED AREAS OR UN SLAB. CONDUIT AND CONDUCTOR SIZES SHALL B AS THE HOMERUN FOR THE CIRCUIT.	DER FLOOR	DP - DEFINITE PURPOSE RELAY T	C - PHOTOCELL C - TIME CLOCK
			<u></u>	CIRCUIT HASH MARKS (WHEN INDICATED); LONG, SINGLE DOT, AND DOUBLE DOT REPRESENT PHA EQUIPMENT GROUND, AND ISOLATED EQUIPMEN	SE, NEUTRAL, T GROUND,	LC - LIGHTING CONTACTOR TI M - MOTOR STARTER	R - TIMING RELAY
⊥ ⊥×××		SDECIEIED	(#X)	RESPECTIVELY. #12 IN 3/4" CONDUIT UNLESS OTH INDICATED.		NORMALLY OPEN CONTACT (N.O.)	
HQ X Z Y	WALL MOUNTED LUMINAIRE, LAMP TYPE AS	JF EUIFIED	│	CIRCUIT CONTINUATION		NORMALLY CLOSED CONTACT (N.C.)	
ZX X	CEILING/IN-GROUND UPLIGHT LUMINAIRE, L/	AMP TYPE AS SPECIFIED		CONDUIT STUBBED OUT AND CAPPED			
$\bullet \bigcup_{Z} {}_{Y}^{X}$	POLE/STANCHION MOUNTED LUMINAIRE, LAN	MP TYPE AS SPECIFIED	<u>GENERAL NOTES:</u> 1. THIS IS A STANDARD F	ELECTRICAL SYMBOLOGY SHEET. NOT ALL SYMBOLS	MAY BE USED ON		
ZOX	CEILING/PENDANT MOUNTED LUMINAIRE, LA	MP TYPE AS SPECIFIED	THIS PROJECT.	NG OF WORK IS USED TO INDICATE EXISTING COMPC			
z □♀ ♀	WALL MOUNTED LUMINAIRE, LAMP TYPE AS	SPECIFIED		SED IMPROVEMENTS TO HIGHLIGHT SELECTED TRAI			
	LIGHTING FIXTURE SUBSCRIPTS: X - INDICATES LUMINAIRE TYPE PER LUMIN, Y - INDICATES CIRCUIT NUMBER FROM PAN Z - INDICATES CONTROLLING SWITCH (IF RE NL - NIGHT LIGHT UNSWITCHED	IELBOARD					
\$ [×]	WALL SWITCH						
	SUBSCRIPTS: X - INDICATES TYPE NONE - SINGLE POLE 2 - DOUBLE POLE 3 - THREE-WAY 4 - FOUR-WAY K - KEY SWITCH P - PILOT LIGHT L - LIGHTED HANDLE DM - DIMMING MC - MOMENTARY CONTACT T - TIMER Y - INDICATES CONTROLLING SWITCH (IF REF	QUIRED)					
PC	PHOTOCELL						
ТС	TIME CLOCK						
\$ _{OSX} or OSX	LIGHTING CONTROL OCCUPANCY SENSOR, W SPECIFIC TYPE AS SPECIFIED	ALL MOUNTED, X INDICATES					
	PANELBOARD (LESS THAN 250V)						
ALLITY OF	WY			PROJECT MANAGER ANDREW F. JUDD	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION REPORT WAS PREPARED BY OR UNDER MY DIRE		L STORMWATER
					SUPERVISION AND THAT I AM A DULY LICENSEI PROFESSIONAL ENGINEER UNDER THE LAWS OF STATE OF MINNESOTA.		
CALITY OF		C 03/28/2023 100% DESIGN B 09/14/2022 90% DESIGN A 06/13/2022 PFA GRANT PACKA ISSUE DATE DESCRIPTION	AGE	PROJECT NUMBER 10268112		MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343	
NNEHAHA ATERSHED [ANDREW KANER, PE DATE XX/XX/XXXX LICENSE # XXXX		

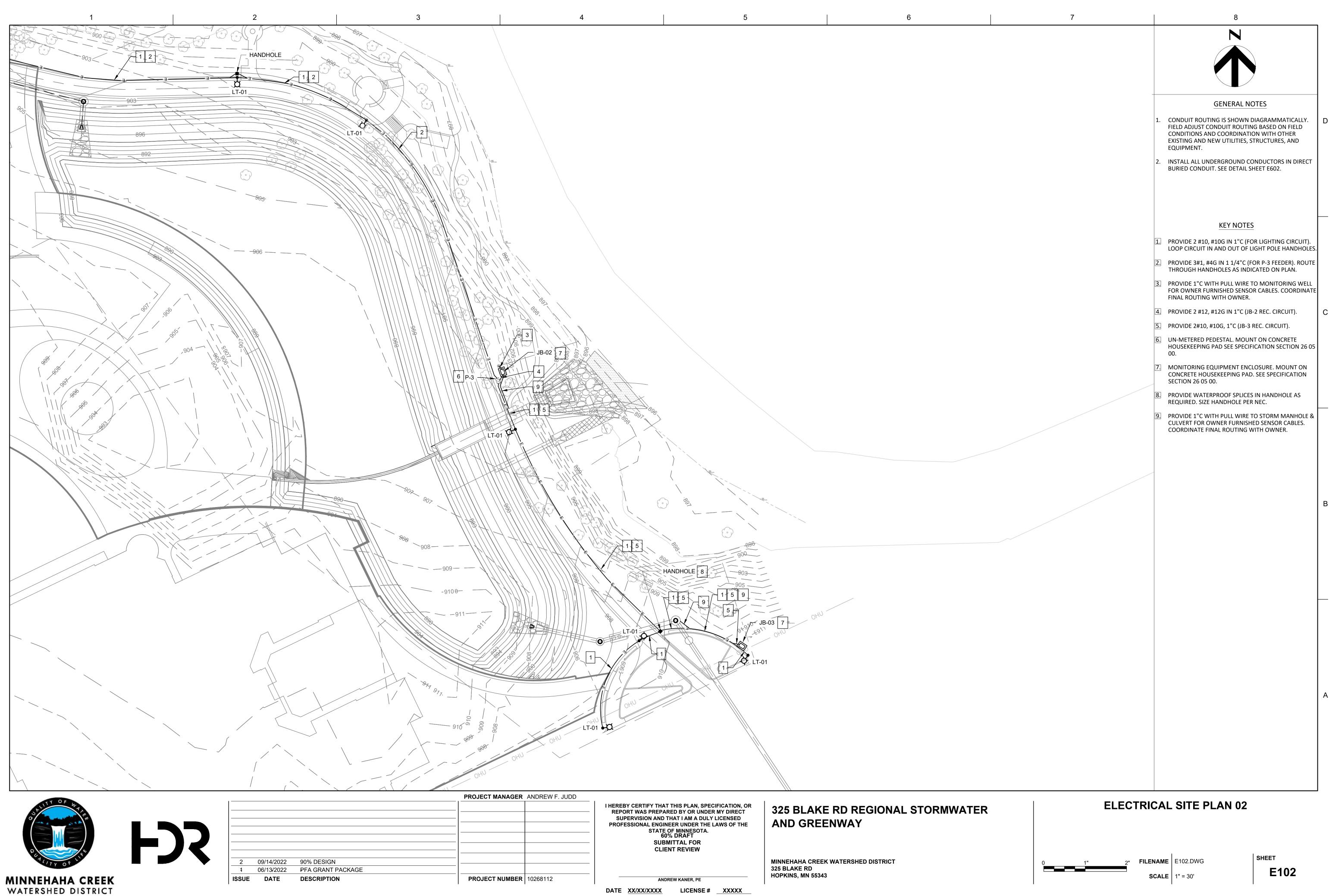


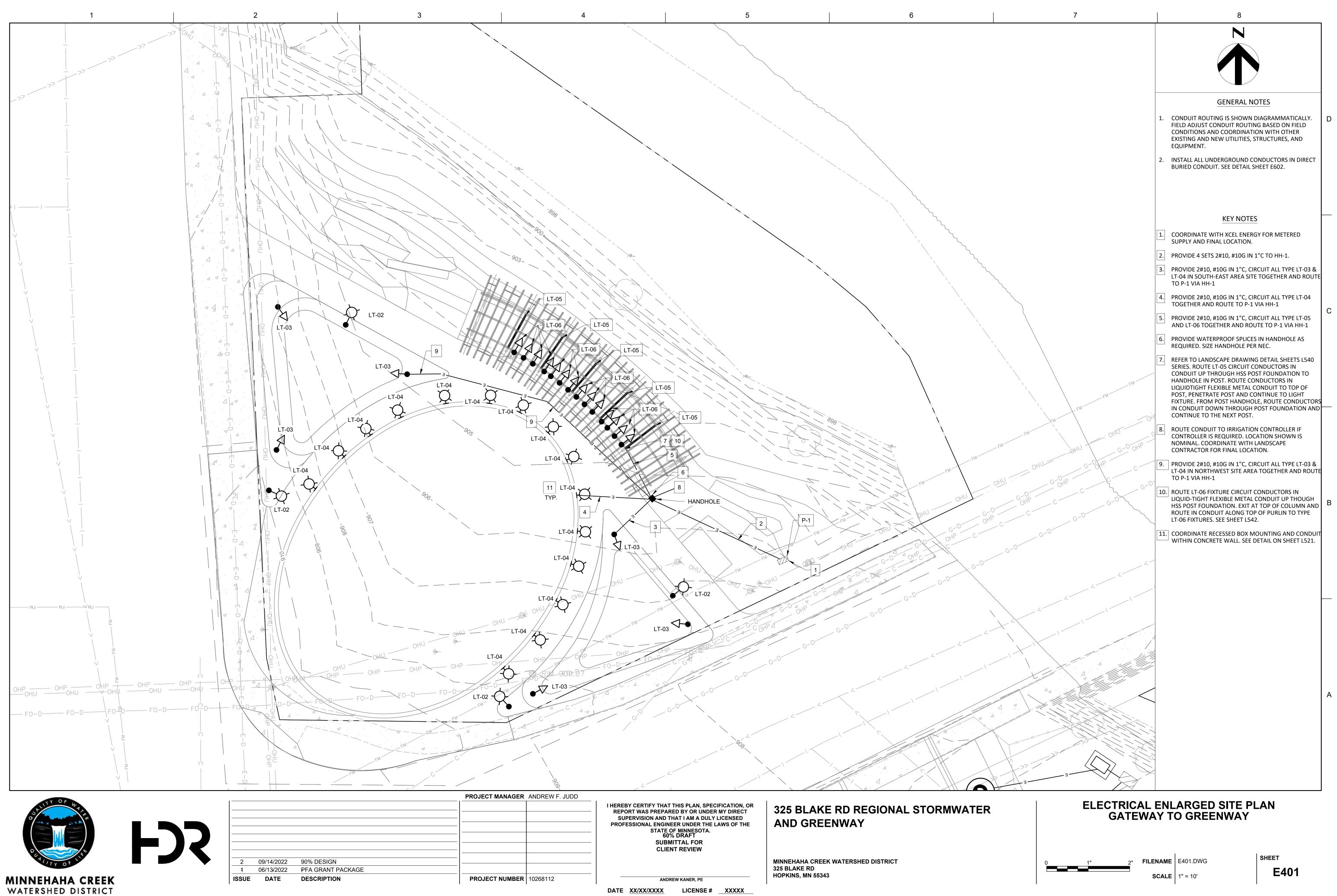


PROJECT MANAGER	ANDREW F. JUDD
PROJECT NUMBER	10268112

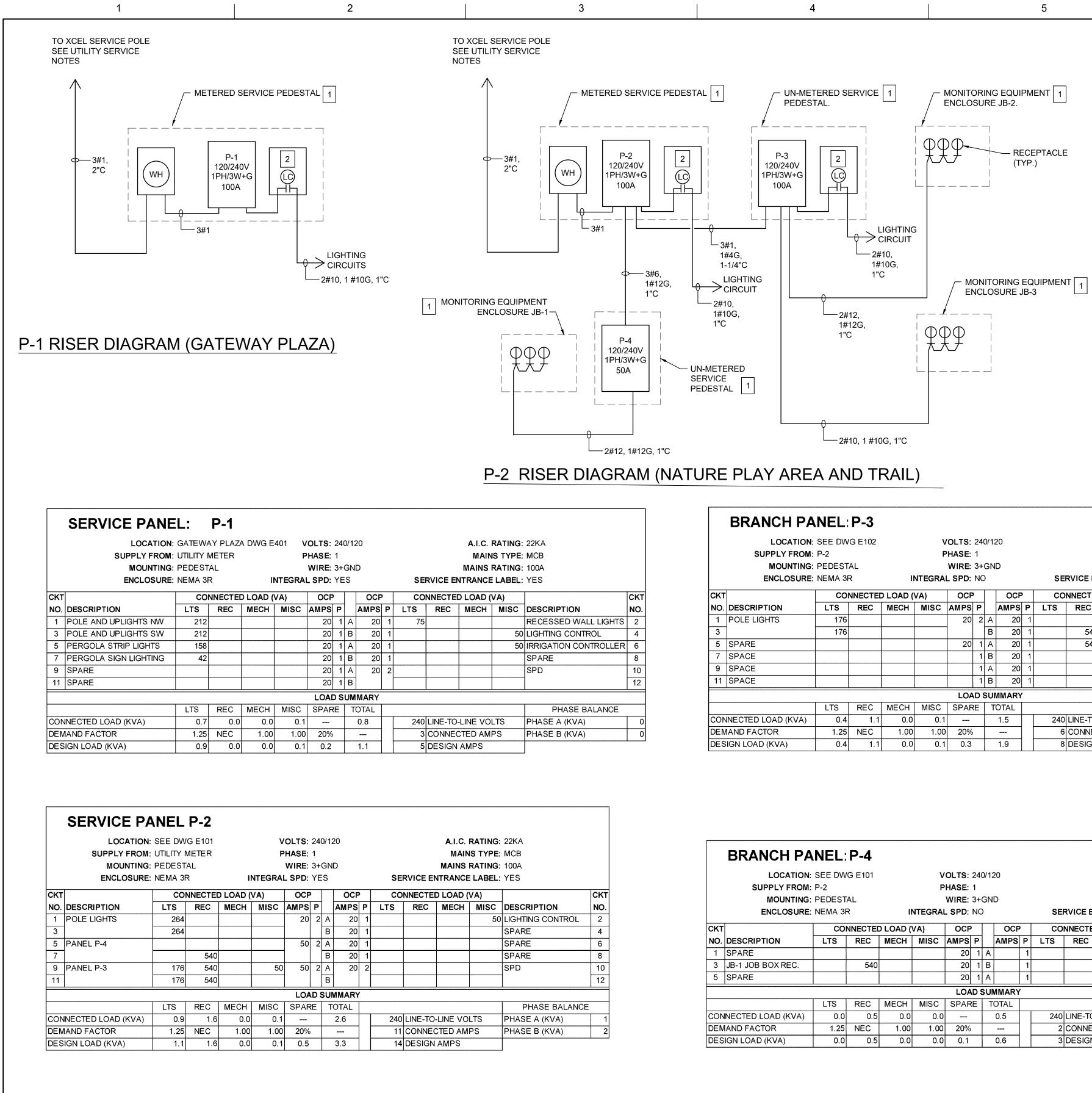
DATE XX/XX/XXXX LICENSE # XXXXX

HOPKINS, MN 55343





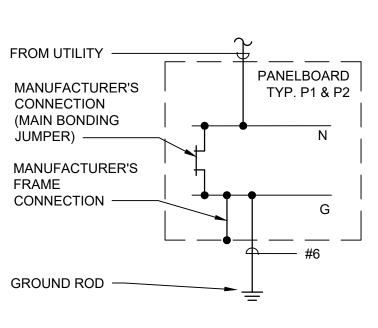
	ANDREW KANER, PE						
DATE	XX/XX/XXXX	LICENSE #	XXXXX				





			PROJECT MANAGER	ANDREW F. JUDD
2	09/14/2022	90% DESIGN		
1	06/13/2022	PFA GRANT PACKAGE		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10268112





GROUNDING DIAGRAM (TYPICAL) METERED SERVICE PEDESTAL

NOT TO SCALE

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2	
2	
0	
0	

	BRANCH PA	NEL:	P-3													
	LOCATION:	SEE DW	G E102		v	OLTS:	24	0/1:	20				A.I.C.	RATING:	10KA	
	SUPPLY FROM:	P-2			P	HASE:	1						MAIN	IS TYPE:	МСВ	
	MOUNTING:	PEDEST	AL			WIRE:	3+	GN	D				MAINS	RATING:	50A	
	ENCLOSURE:	NEMA 3F	२	11	NTEGRA	L SPD:	NC)			SE		ITRANCE	LABEL:	NO	
скт		COI	NNECTE	DLOAD (VA)	OCF	>		OCP		CO	NNECTED	DLOAD (VA)		СКТ
NO.	DESCRIPTION	LTS	REC	MECH	MISC	AMPS	Ρ	1	AMPS	Ρ	LTS	REC	MECH	MISC	DESCRIPTION	NO.
1	POLE LIGHTS	176				20	2	A	20	1				50	LIGHTING CONTROL	2
3		176				1		В	20	1		540			JB-2 JOB BOX REC.	4
5	SPARE					20	1	A	20	1		540			JB-3 JOB BOX REC.	6
7	SPACE						1	В	20	1					SPARE	8
9	SPACE						1	A	20	1					SPARE	10
11	SPACE						1	В	20	1					SPARE	12
	*****					LOA		SU	MMARY							
		LTS	REC	MECH	MISC	SPAF	RE	Т	OTAL						PHASE BALANCE	Ξ
CON	INECTED LOAD (KVA)	0.4	1.1	0.0	0.1				1.5		240	LINE-TO-	LINE VO	LTS	PHASE A (KVA)	1
DEN	IAND FACTOR	1.25	NEC	1.00	1.00	20%)			ľ	6	CONNEC	TED AM	PS	PHASE B (KVA)	1
DES	IGN LOAD (KVA)	0.4	1.1	0.0	0.1	0.3		1	1.9	Ì	8	DESIGN	AMPS	********		

A.I.C. RATING: 10KA MAINS TYPE: MCB MAINS RATING: 50A SERVICE ENTRANCE LABEL: NO CONNECTED LOAD (VA) AMPS P LTS REC MECH MISC DESCRIPTION NO SPACE SPACE | 4 | SPACE 6 PHASE BALANCE 240 LINE-TO-LINE VOLTS PHASE A (KVA) 2 CONNECTED AMPS PHASE B (KVA) 3 DESIGN AMPS

> HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. 60% DRAFT SUBMITTAL FOR **CLIENT REVIEW**

> > ANDREW KANER, PE

DATE XX/XX/XXXX

LICENSE # XXXXX

325 BLAKE RD REGIONAL STORMWATER AND GREENWAY

MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343

FRAME

GROUND ROD -

7	

UTILITY SERVICE NOTES

- MAKE SERVICE APPLICATION, VERIFY POINT OF SERVICE LOCATION AND COORDINATE METER LOCATIONS WITH XCEL ENERGY.
- 2. PROVIDE NRTL LISTED METER SOCKET CONFORMING TO XCEL STANDARDS, BILLING METER PROVIDED BY XCEL

D

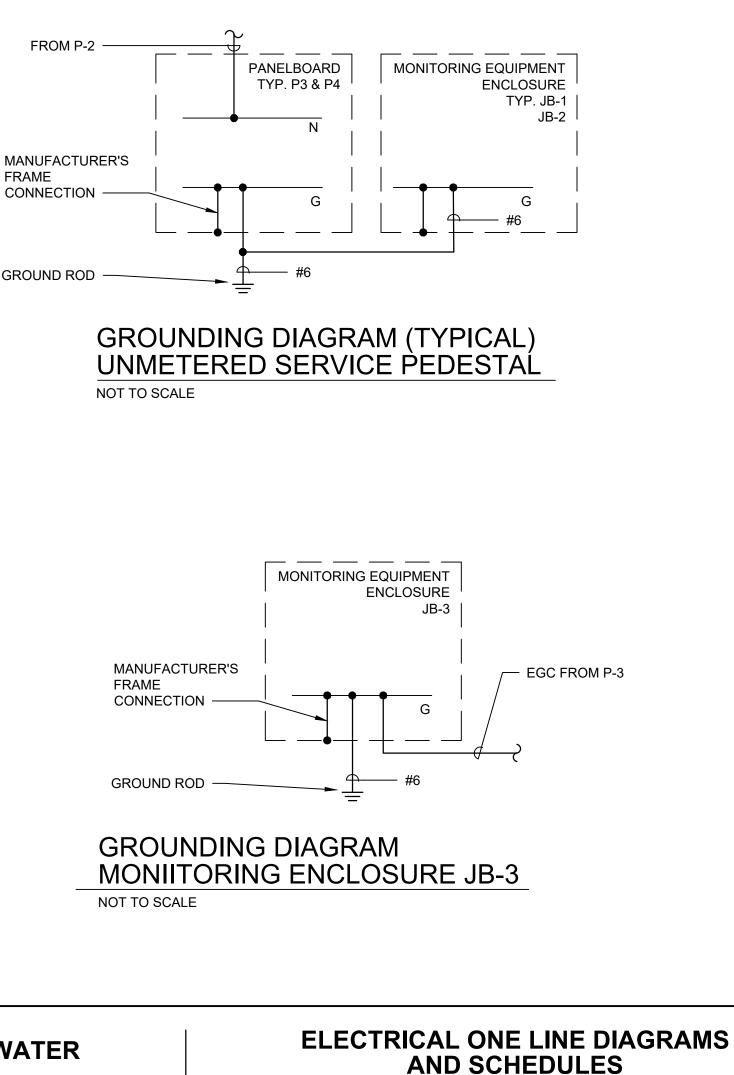
- 3. UNDERGROUND SERVICE CONDUIT SHALL BE SCHEDULE 80 PVC.
- 4. PROVIDE SERVICE ENTRANCE CONDUIT, CONDUCTORS AND OVERHEAD POINT OF ATTACHMENT TO XCEL STANDARDS.
- 5. INSTALL ELBOW AT EXCEL POLE TO MAX 6" ABOVE GRADE AND COIL 32 FEET OF CABLE AT BASE OF XCEL POLE.

GENERAL NOTES

1. CONDUCTOR SIZES HAVE BEEN INCREASED FOR VOLTAGE DROP.

KEY NOTES

- 1. SEE SPEC 26 05 00 FOR PEDESTAL AND MONITORING EQUIPMENT ENCLOSURE REQUIREMENTS.
- 2. ROUTE LIGHTING CIRCUITS THROUGH LIGHTING CONTACTOR. PROVIDE LIGHTING CONTACTOR, TIME CLOCK AND HOA SWITCH WITHIN THE PEDESTAL. PROVIDE AN EXTERIOR MOUTNED PHOTOCELL FOR P-1. SEE LIGHTING CONTROL DETAILS ON SHEET E602.





FILENAME | E601.DWG SCALE NA

SHEET E601 1

2

		LUMINAIRE SCHEDUL	Ε
DWG ID	MANUFACTURER AND SERIES	DESCRIPTION	WATTS (MAX)
LT-01	STERNBERG LIGHTING SOLANA SL660 SERIES	POST TOP LED AREA LIGHT. FOR INSTALLATION ALONG PEDESTRIAN PATHS. TYPE II DISTRIBUTION, CLEAR ACRYLIC LENS, ALUMINUM HOUSING. INTEGRAL TWIST LOCK PHOTOCONTROL. 10' - 0" POLE, ROUND ALUMINUM MANUFACTURER'S STANDARD, WITH MATTE SILVER FINISH. WET LOCATION RATED.	26
LT-01A	STERNBERG LIGHTING SOLANA SL660 SERIES	SAME AS LT-01, WITH BACK LIGHT OPTICAL CONTROL.	26
LT-02	STERNBERG LIGHTING SOLANA SL660 SERIES	SAME AS LT-01, WITHOUT INTEGRAL PHOTOCELL AND SUPPLIED AT 120V	26
LT-03	KIM LIGHTING SCARAB SERIES	MINI PROJECTOR/FLOOD LED. FOR TREE UPLIGHTING. NARROW FLOOD DISTRIBUTION (26 DEGREES). WET LOCATION RATED. BLACK FINISH. INTEGRAL DRIVER. C/W STANCHION MOUNT.	14
LT-04	LIGMAN VIOS 2 UVI-40296 SERIES	RECESSED FAÇADE LED LIGHT. CIRCULAR SHAPE. WET LOCATION RATED. ALUMINUM FRAME. WIDE BEAM DISTRIBUTION. INTEGRAL DRIVER. DARK GREY FINISH. C/W RECESSING BOX.	5
LT-05	PRIMUS ELEMENTS 3 - LED WET SERIES	SURFACE MOUNT LINEAR LED. FOR PERGOLA DOWNLIGHTING. EXTRUDED ALUMINUM HOUSING. 3" WIDE X 2-1/16" DEEP X 9' LONG CONTINUOUS RUN. WET LOCATION RATED. FLAT LENS. SATIN FINISH. INTEGRAL DRIVER.	3.5/FT
LT-06	LIGMAN LADOR (LD-50001) SERIES	MINIATURE OUTDOOR LED PROJECTOR LIGHT. FOR PERGOLA SIGN LIGHTING. WET LOCATION RATED. WIDE BEAM OPTIC (32 DEGREE). WHITE FINISH. INTEGRAL DRIVER.	3

NOTES:

PROVIDE COLOR MATERIAL SAMPLES TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO ORDER

ANGLE PROJECTOR LIGHT AT 30 DEGREES TO ILLUMINATE TREE TRUNK AND CANOPY.

. SEE MOUNTING DETAILS ON LANDSCAPE DRAWING SHEET L541.

4. ANGLE PROJECTOR LIGHT AT CENTER OF SIGNAGE LETTER. ONE PROJECTOR LIGHT PER LETTER. SEE DETAIL ON LANDSCAPE DRAWING SHEET L542.

5. SEE RECESSED WALL MOUNTING DETAIL ON LANDSCAPING DRAWING SHEET L521.

6. SEE STANCHION MOUNTING FOUNDATION DETAIL ON SHEET E602.





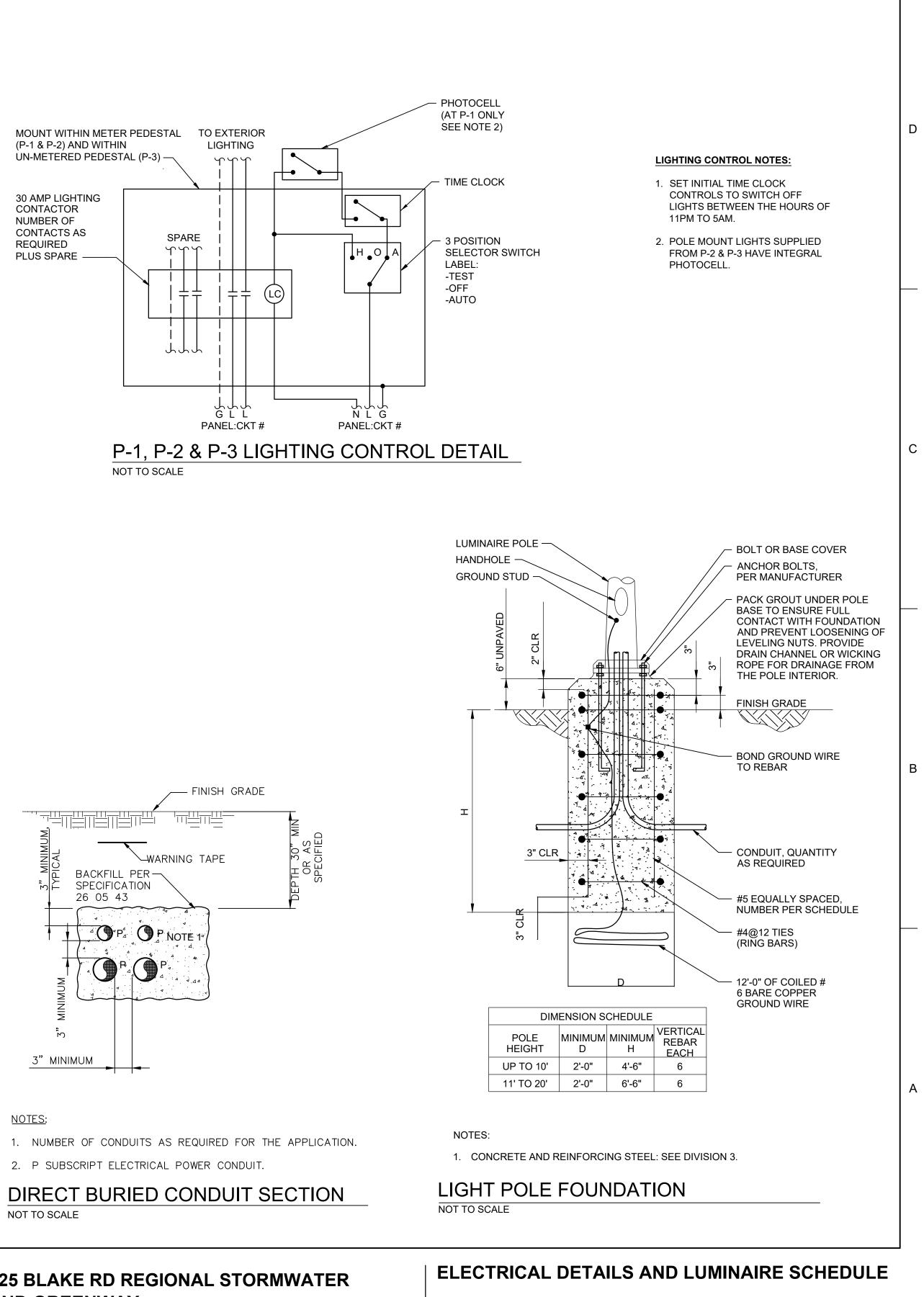
	09/14/2022	90% DESIGN	PRC	DJECT MANAGER	ANDREW F. JUDD	60% SUBM	ED BY OR UNDER I IAT I AM A DULY L	MY DIRECT
1	06/13/2022	PFA GRANT PACKAGE						
ISSUE	DATE	DESCRIPTION	PF	ROJECT NUMBER	10268112	ANDRE	EW KANER, PE	
						DATE XX/XX/XXXX	LICENSE #	XXXXX

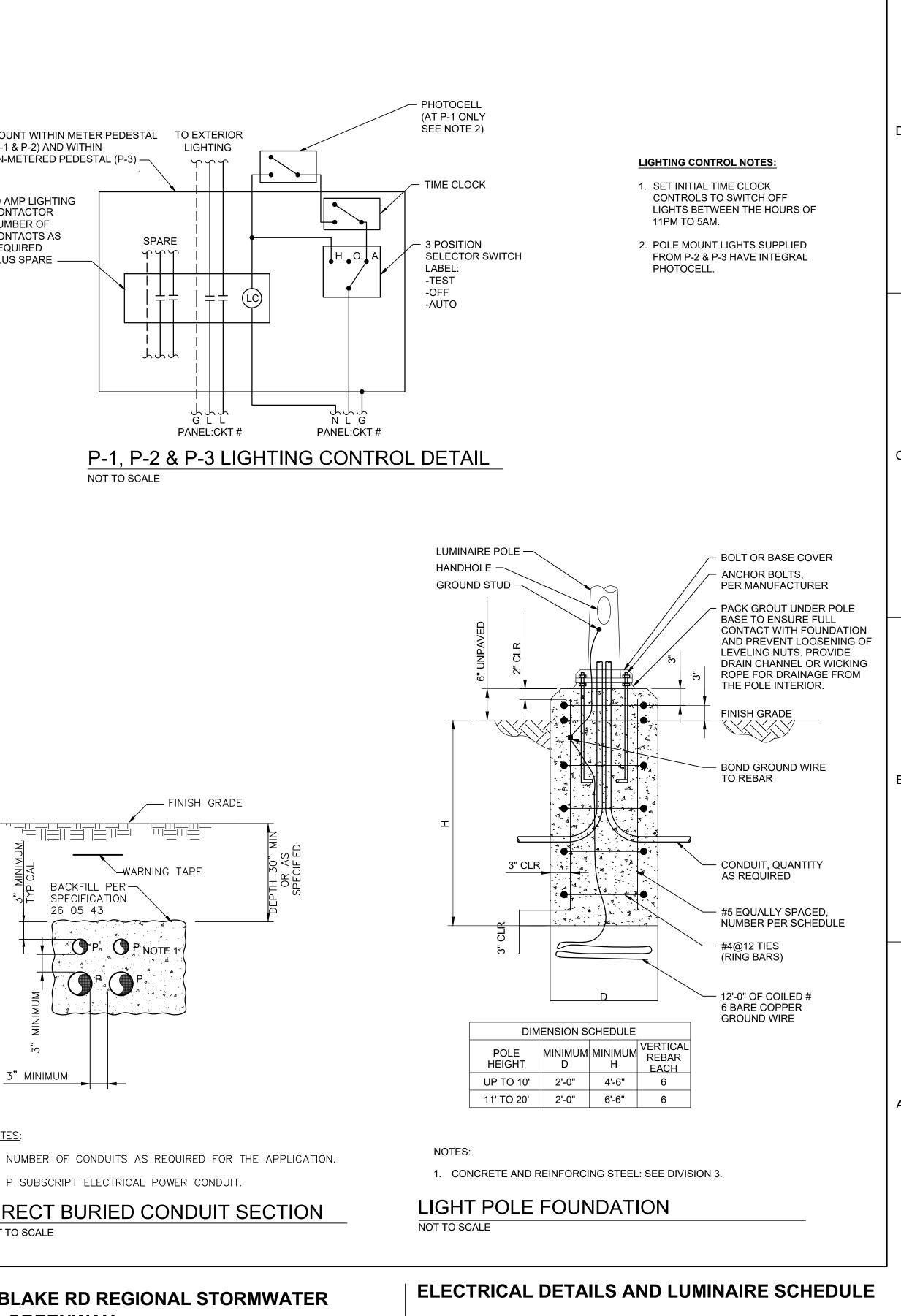
MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343

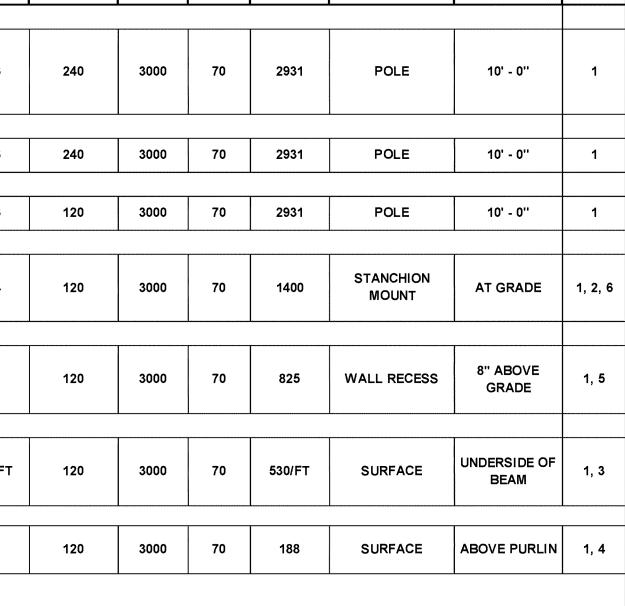
325 BLAKE RD REGIONAL STORMWATER AND GREENWAY

NOT TO SCALE

- 2. P SUBSCRIPT ELECTRICAL POWER CONDUIT.
- <u>NOTES:</u>







COLOR

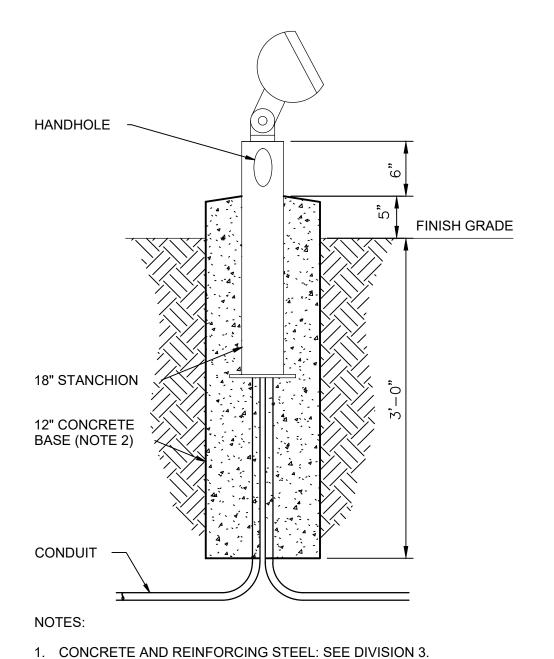
TEMP (K)

VOLTAGE

CRI

(MIN)

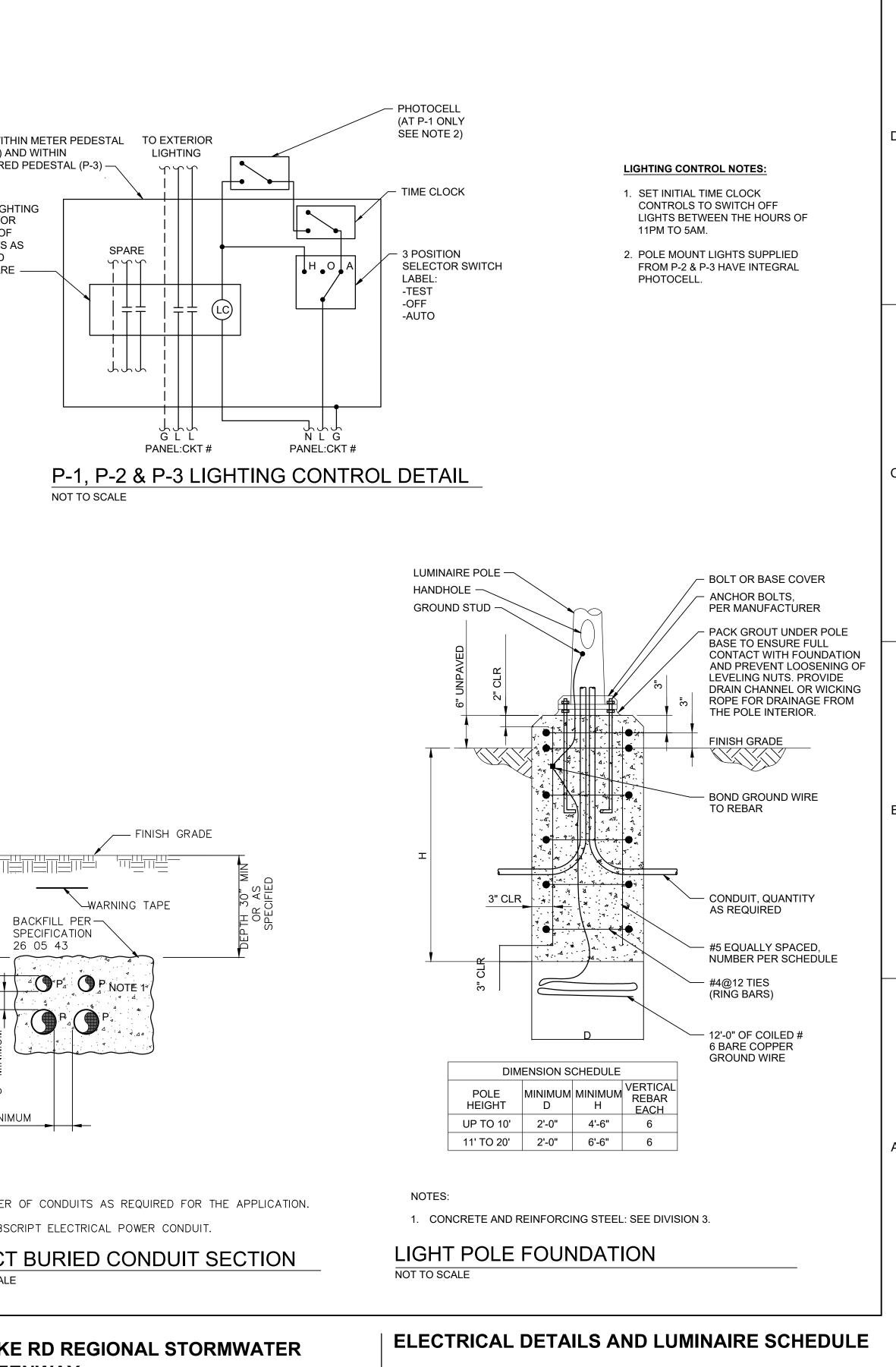
LUMENS



STANCHION MOUNTING FOUNDATION

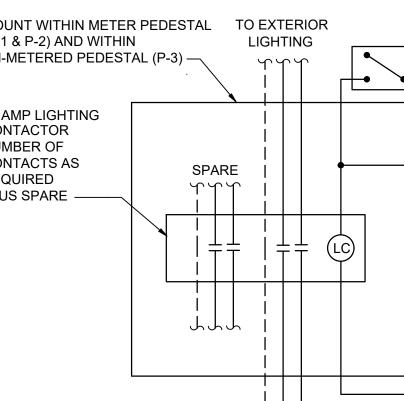
2. ROUND FOUNDATION IN UNPAVED AREAS.

NOT TO SCALE



7

30 AMP LIGHTING CONTACTOR NUMBER OF CONTACTS AS REQUIRED PLUS SPARE —



HEIGHT

NOTES

MOUNTING

TYPE

FILENAME E601.DWG SCALE 1" = XX'

SHEET E602

SITE AND LANDSCAPE NOTES

SITE PREPARATION NOTES

- 1. CONTRACTOR SHALL INSPECT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS RELATING TO THE NATURE AND SCOPE OF WORK.
- 2. CONTRACTOR SHALL VERIFY PLAN LAYOUT AND BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT DISCREPANCIES WHICH MAY COMPROMISE THE DESIGN OR INTENT OF THE LAYOUT.
- CONTRACTOR SHALL ASSURE COMPLIANCE WITH APPLICABLE 3 CODES AND REGULATIONS GOVERNING THE WORK AND MATERIALS SUPPLIED.
- 4. CONTRACTOR SHALL PROTECT EXISTING ROADS, CURBS/GUTTERS, TRAILS. TREES. LAWNS AND SITE ELEMENTS DURING CONSTRUCTION OPERATIONS. DAMAGE TO SAME SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
- 5. CONTRACTOR SHALL VERIFY ALIGNMENT AND LOCATION OF UNDERGROUND AND ABOVE GRADE UTILITIES AND PROVIDE THE NECESSARY PROTECTION FOR SAME BEFORE CONSTRUCTION BEGINS (MINIMUM 10' CLEARANCE).
- 6. CONTRACTOR SHALL COORDINATE THE PHASES OF CONSTRUCTION AND PLANTING INSTALLATION WITH OTHER CONTRACTORS WORKING ON SITE.
- UNDERGROUND UTILITIES SHALL BE INSTALLED SO THAT TRENCHES DO NOT CUT THROUGH ROOT SYSTEMS OF EXISTING TREES TO REMAIN
- 8. EXISTING CONTOURS, TRAILS, VEGETATION, CURB/GUTTER AND OTHER ELEMENTS ARE BASED UPON INFORMATION SUPPLIED TO THE LANDSCAPE ARCHITECT BY OTHERS. CONTRACTOR SHALL VERIFY DISCREPANCIES PRIOR TO CONSTRUCTION AND NOTIFY LANDSCAPE ARCHITECT OF SAME.
- 9. HORIZONTAL AND VERTICAL ALIGNMENT OF PROPOSED WALKS, TRAILS OR ROADWAYS ARE SUBJECT TO FIELD ADJUSTMENT REQUIRED TO CONFORM TO LOCALIZED TOPOGRAPHIC CONDITIONS AND TO MINIMIZE TREE REMOVAL AND GRADING. CHANGES IN ALIGNMENT AND GRADES MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO IMPLEMENTATION.
- 10. CONTRACTOR SHALL REVIEW THE SITE FOR DEFICIENCIES IN SITE CONDITIONS WHICH MIGHT NEGATIVELY AFFECT PLANT ESTABLISHMENT, SURVIVAL OR WARRANTY. UNDESIRABLE SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
- 11. CONTRACTOR IS RESPONSIBLE FOR ONGOING MAINTENANCE OF NEWLY INSTALLED MATERIALS UNTIL TIME OF SUBSTANTIAL COMPLETION. REPAIR OF ACTS OF VANDALISM OR DAMAGE WHICH MAY OCCUR PRIOR TO SUBSTANTIAL COMPLETION SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
- 12. EXISTING TREES OR SIGNIFICANT SHRUB MASSINGS FOUND ON SITE SHALL BE PROTECTED AND SAVED UNLESS NOTED TO BE REMOVED OR ARE LOCATED IN AN AREA TO BE GRADED. QUESTIONS REGARDING EXISTING PLANT MATERIAL SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO REMOVAL.
- 13. EXISTING TREES TO REMAIN, UPON DIRECTION OF LANDSCAPE ARCHITECT, SHALL BE FERTILIZED AND PRUNED TO REMOVE DEAD WOOD. DAMAGED AND RUBBING BRANCHES.
- 14. CONTRACTOR SHALL PREPARE AND SUBMIT A WRITTEN REQUEST FOR THE SUBSTANTIAL COMPLETION INSPECTION OF LANDSCAPE AND SITE IMPROVEMENTS PRIOR TO SUBMITTING FINAL PAY REQUEST.
- 15. CONTRACTOR SHALL PREPARE AND SUBMIT REPRODUCIBLE AS-BUILT DRAWING(S) OF LANDSCAPE INSTALLATION, IRRIGATION AND SITE IMPROVEMENTS UPON COMPLETION OF CONSTRUCTION INSTALLATION AND PRIOR TO SUBSTANTIAL COMPLETION.
- 16. SYMBOLS ON PLAN DRAWING TAKE PRECEDENCE OVER SCHEDULES IF DISCREPANCIES IN QUANTITIES EXIST. SPECIFICATIONS AND DETAILS TAKE PRECEDENCE OVER NOTES.

SOIL TESTING

- 1. CONTRACTOR SHALL OBTAIN A SOIL SAMPLE(S) FROM PROJECT SITE AND/OR SALVAGED TOPSOIL STOCKPILE AND SUBMIT TO INDEPENDENT TESTING AGENCY. ANALYSIS AND RECOMMENDATIONS FOR (INCLUDING BUT NOT LIMITED TO) MACRONUTRIENTS, MICRONUTRIENTS, COMPOSITION AND SOLUBLE SALTS SHALL BE PROVIDED.
- 2. CONTRACTOR SHALL PROVIDE TWO SERIES OF TESTS: FIRST, PRIOR



MINNEHAHA CREEK WATERSHED DISTRICT



DF/ DAMON FARBER LANDSCAPE ARCHITECTS

Minneapolis, MN 55401 p: 612.332.7522

401 North 2nd Avenue, Suite 410

C 03/28/2023 **100% DESIGN** B 09/14/2022 90% DESIGN A 06/13/2022 PFA GRANT PACKAGE ISSUE DATE DESCRIPTION

TO CONSTRUCTION; SECOND, AFTER SOIL IS AMENDED, PRIOR TO PLANTING.

3. CONTRACTOR SHALL PROVIDE ANALYSIS RESULTS AND RECOMMENDATIONS TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO SOIL AMENDMENT AND PRIOR TO PLANTING.

GRADING

2

- ROUGH GRADING AND FINISHED GRADING TO BE DONE BY OTHERS EXCEPT WHERE NOTED.
- 2. GRADING LIMITS ARE DEFINED AS THE JUNCTURE OF PROPOSED GRADE WITH EXISTING GRADE UNLESS NOTED OTHERWISE.
- 3. GRADING LIMITS AND LIMITS OF WORK SHOWN ON PLAN ARE ONLY APPROXIMATE AND MAY BE ADJUSTED IN FIELD BY LANDSCAPE ARCHITECT. WORK OUTSIDE OF THESE LIMITS WILL BE DONE AT LANDSCAPE CONTRACTORS EXPENSE UNLESS DIRECTED BY LANDSCAPE ARCHITECT OR OWNER IN WRITING.
- 4. FILL/CUT AS NECESSARY TO PROVIDE A 1% MINIMUM GRADE AWAY FROM BUILDINGS WITHIN LIMITS OF CONSTRUCTION.
- 5. SALVAGE TOPSOIL FROM THE EARTHWORK AREAS AS APPROPRIATE OR AS INDICATED ON PLANS AND STOCKPILE FOR REUSE.
- 6. MAINTAIN A UNIFORM GRADE BETWEEN CONTOURS IN AREAS TO BE GRADED UNLESS NOTED OTHERWISE.
- 7. ELEVATIONS. IF SHOWN ARE FINISHED ELEVATIONS. SPOT ELEVATIONS TAKE PRECEDENCE OVER CONTOURS.
- 8. ADD EROSION CONTROL MEASURES IF GRADES GREATER THAN 3:1 OR IF CONDITIONS WARRANT. REFER TO MNDOT SPECIFICATIONS FOR EROSION CONTROL.
- CONTRACTOR SHALL CONTACT PUBLIC UTILITIES FOR LOCATION OF 9. UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. LANDSCAPE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE IF DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- 10. CONTRACTOR SHALL PROVIDE PROPER EROSION CONTROL MEASURES AS REQUIRED TO ENSURE THAT EROSION IS KEPT TO AN ABSOLUTE MINIMUM
- 11. PROVIDE TEMPORARY COVERING FOR CATCH BASINS AND MAN HOLES UNTIL FINISHED GRADING IS COMPLETE.
- CONTRACTOR SHALL CONSTRUCT DRAINAGE BASINS AS NEEDED.
- 13. PERIMETER SILT FENCE AND ROCK CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO CONSTRUCTION. REFER TO STATE SPECIFICATIONS FOR AGGREGATE BASE AND SILT FENCE.
- 14. CONTRACTOR SHALL INSTALL CATCH BASIN EROSION CONTROL MEASURES PER LOCAL POLLUTION CONTROL AGENCY AND SPECIFICATIONS.
- 15. WITHIN TWO WEEKS OF FINISHED SITE GRADING, DISTURBED AREAS SHALL BE STABILIZED WITH SEED, SOD, MULCH OR ROCK BASE.
- 16. CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES. INCLUDING THE REMOVAL OF ACCUMULATED SILT IN FRONT OF SILT FENCES AND EXCESS SEDIMENT IN PROPOSED CATCH BASINS, FOR THE DURATION OF CONSTRUCTION.
- 17. CONTRACTOR SHALL REMOVE EROSION CONTROL MEASURES AFTER VEGETATION IS ESTABLISHED AND DISPOSE OF OFF SITE.
- 18. CONTRACTOR SHALL ENSURE THAT SOIL CONDITIONS AND COMPACTION ARE ADEQUATE TO ALLOW FOR PROPER DRAINAGE AROUND THE CONSTRUCTION SITE. UNDESIRABLE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING OF WORK. IT SHALL BE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO ENSURE PROPER SURFACE AND SUBSURFACE DRAINAGE IN PLANTING AREAS.

PLANTING

- SPRING PLANT MATERIAL INSTALLATION IS FROM APRIL 15 TO JUNE 15.
- 2. FALL CONIFEROUS PLANTING IS ACCEPTABLE FROM AUGUST 21 TO SEPTEMBER 30.
- 3. FALL DECIDUOUS PLANTING IS ACCEPTABLE FROM AUGUST 15 UNTIL NOVEMBER 15.
- ADJUSTMENTS TO PLANTING DATES MUST BE APPROVED IN WRITING 4. BY THE LANDSCAPE ARCHITECT.
- 5. STAKE PROPOSED PLANTING LOCATIONS PER PLAN FOR REVIEW

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PROJECT MANAGER	ANDREW F. JUDD
PROJECT NUMBER	10268112
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AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALL

- 6. PLANT MATERIAL SHALL COMPLY WITH THE CURRENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1. UNLESS NOTED OTHERWISE, DECIDUOUS SHRUBS SHALL HAVE AT LEAST 5 CANES AT THE SPECIFIED HEIGHT. ORNAMENTAL TREES SHALL HAVE NO 'V' CROTCHES AND SHALL BEGIN BRANCHING NO LOWER THAN 3' FEET ABOVE THE ROOT BALL. STREET AND BOULEVARD TREES SHALL BEGIN BRANCHING NO LOWER THAN 6' ABOVE PAVED SURFACE.
- 7. INSTALL PLANT MATERIAL AFTER FINAL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- 8. INSTALL PLANT MATERIALS PER PLANTING DETAILS.
- SUBSTITUTION REQUESTS FOR PLANT MATERIAL TYPE & SIZE SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR CONSIDERATION PRIOR TO BIDDING. SUBSTITUTIONS AFTER BIDDING MUST BE APPROVED BY LANDSCAPE ARCHITECT AND ARE SUBJECT TO CONTRACT ADJUSTMENTS.
- 10. ADJUSTMENTS IN LOCATION OF PROPOSED PLANT MATERIALS MAY BE NEEDED IN FIELD. LANDSCAPE ARCHITECT MUST BE NOTIFIED PRIOR TO ADJUSTMENT OF PLANTS.
- 11. FERTILIZE PLANT MATERIALS IN ACCORDANCE WITH SOIL TEST RECOMMENDATIONS.
- 12. INSTALL 18" DEPTH OF PLANTING SOIL IN AREAS RECEIVING GROUND COVER, PERENNIALS, AND ANNUALS. PLANTING SOIL SHALL CONSIST OF MnDOT 3877-B MODIFIED TO CONTAIN A MAXIMUM OF 30% SAND, A PH OF 7.1 MAX. OR AS OTHERWISE SPECIFIED IN THE **PROJECT SPECIFICATIONS MANUAL**
- 13. TREE WRAPPING MATERIAL SHALL BE PAPER APPLIED FROM TRUNK FLARE TO FIRST BRANCH. WRAP SMOOTH-BARKED DECIDUOUS TREES PLANTED IN THE FALL PRIOR TO DECEMBER 1 AND REMOVE WRAPPING AFTER MAY 1.] [DO NOT WRAP TREES.

MULCHING

- 1. INSTALL 4" DEEP FINELY SHREDDED HARDWOOD MULCH RINGS AT **CONIFEROUS & DECIDUOUS TREES WITH NO MULCH IN DIRECT** CONTACT WITH TREE TRUNK. WHERE TREES ARE PLANTED IN NATURAL RIPARIAN AREA, INSTALL MULCH RINGS.
- 2. INSTALL 3" DEEP FINELY SHREDDED HARDWOOD MULCH RINGS AT SHRUB PLANTING AREAS WITH NO MULCH IN DIRECT CONTACT WITH SHRUB STEMS. WHERE MASSED SHRUBS ARE PLANTED IN NATURALIZED/SEEDED AREAS, MULCH AS A CONTINUOUS MASS.
- 3. INSTALL 3" DEEP FINELY SHREDDED MULCH IN PERENNIAL PLANTING BEDS. REMOVE ALL MULCH FROM STEMS OF PERENNIALS; PLANT STEMS SHOULD NOT BE IN DIRECT CONTACT WITH MULCH.
- 4. WHERE PLUGS ARE PLANTED INTO SEEDED AREAS, NO SHREDDED HARDWOOD MULCH IS REQUIRED.

WATERING

- 1. PLANTED MATERIALS SHALL BE WATERED BY TEMPORARY MEANS UNTIL PLANTS ARE ESTABLISHED.
- 2. TEMPORARY WATERING MEANS, METHODS, AND SCHEDULING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. REMOVE TEMPORARY WATERING EQUIPMENT UPON PLANT ESTABLISHMENT.
- PROVIDE AND FILL WATERING BAGS FOR TREE PLANTINGS.

WARRANTY

- 1. WARRANTY NEW PLANT MATERIAL THROUGH TWO CALENDAR YEARS FROM THE DATE OF SUBSTANTIAL COMPLETION. NO PARTIAL ACCEPTANCE WILL BE CONSIDERED.
- 2. PROVIDE ESTABLISHMENT MAINTENANCE (3 YEARS), MAINTENANCE REPORTING, AND WARRANTY TO NATIVE SEEDING AREAS, REFER TO SPECIFICATIONS.

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

THOMAS J WHITLOCK, PLA

DATE XX/XX/XXXX

LICENSE # 26292

325 BLAKE RD REGIONAL STORMWATER AND GREENWAY

MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343

IRRIGATION NOTES

- BUILDING FOUNDATION.
- DESIGN.
- DRAWINGS.
- 4 IRRIGATION PRIOR TO INSTALLATION OF MULCH.
- MATERIAL GROWTH REQUIREMENTS.

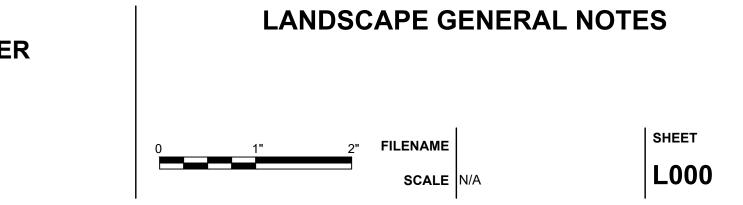
CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN IRRIGATION LAYOUT PLAN AND SPECIFICATION THAT MEETS THE REQUIREMENTS OF THE PROVIDED PERFORMANCE SPECIFICATION AS PART OF THE SCOPE OF WORK. SUBMIT LAYOUT PLAN AND SPECIFICATIONS FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO ORDER AND/OR CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT SODDED/SEEDED AND PLANTED AREAS ARE IRRIGATED PROPERLY, INCLUDING THOSE AREAS DIRECTLY AROUND AND ABUTTING

CONTRACTOR SHALL FIELD VERIFY WATER SUPPLY, VOLUME, PRESSURE AND LOCATION FOR SYSTEM TAP PRIOR TO SYSTEM

CONTRACTOR SHALL CONFIRM COMPLETE LIMITS OF IRRIGATION WITH LANDSCAPE ARCHITECT PRIOR TO SUPPLYING SHOP

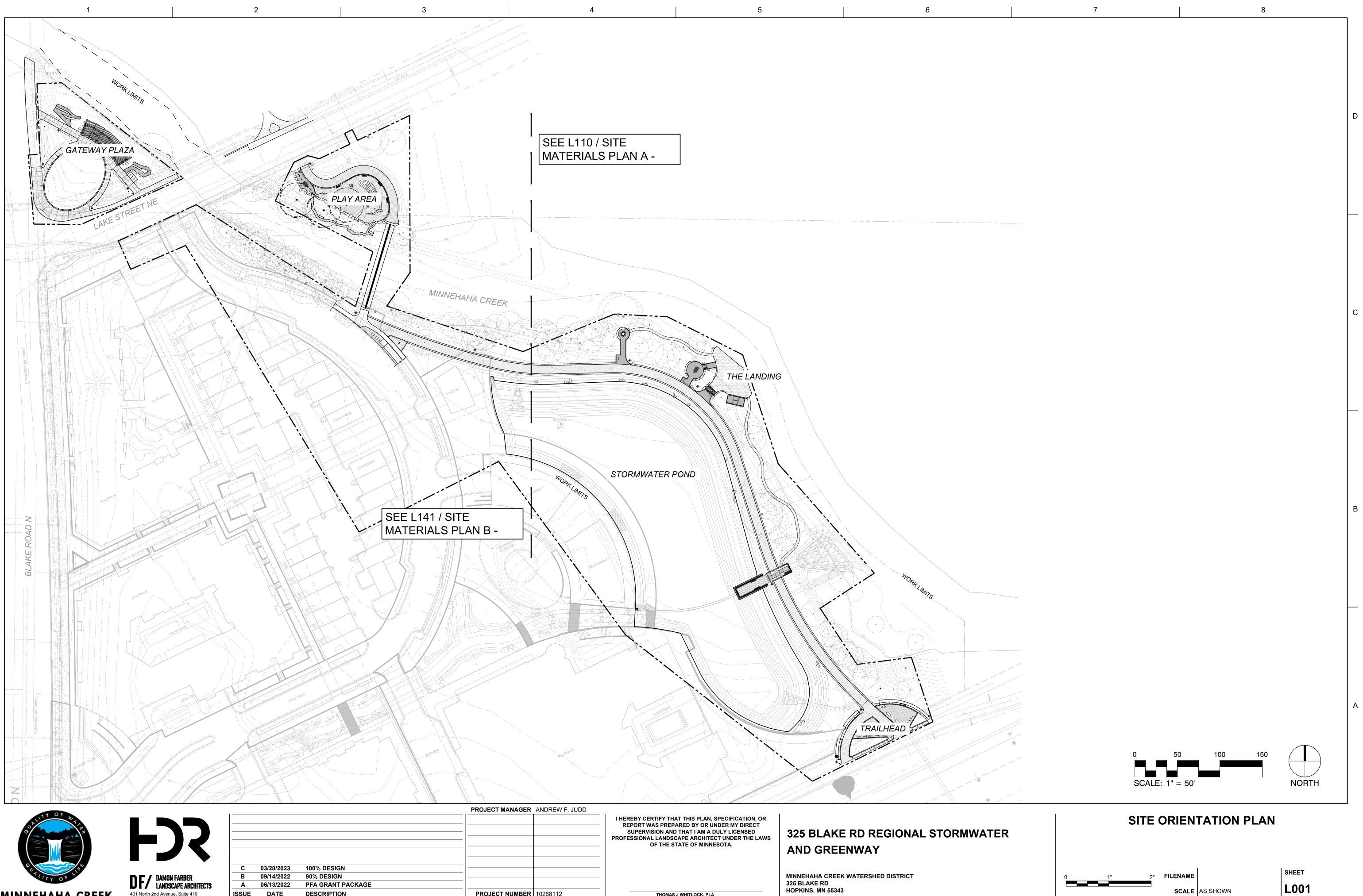
CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR INSPECTION AND APPROVAL OF AREAS RECEIVING DRIP

CONTRACTOR SHALL PROVIDE THE OWNER AND LANDSCAPE ARCHITECT WITH AS-BUILT DRAWINGS, DETAILED SYSTEM **OPERATION INSTRUCTIONS AND AN IRRIGATION SCHEDULE** APPROPRIATE TO THE PROJECT SITE CONDITIONS AND PLANTED

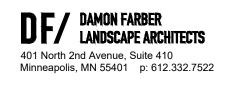


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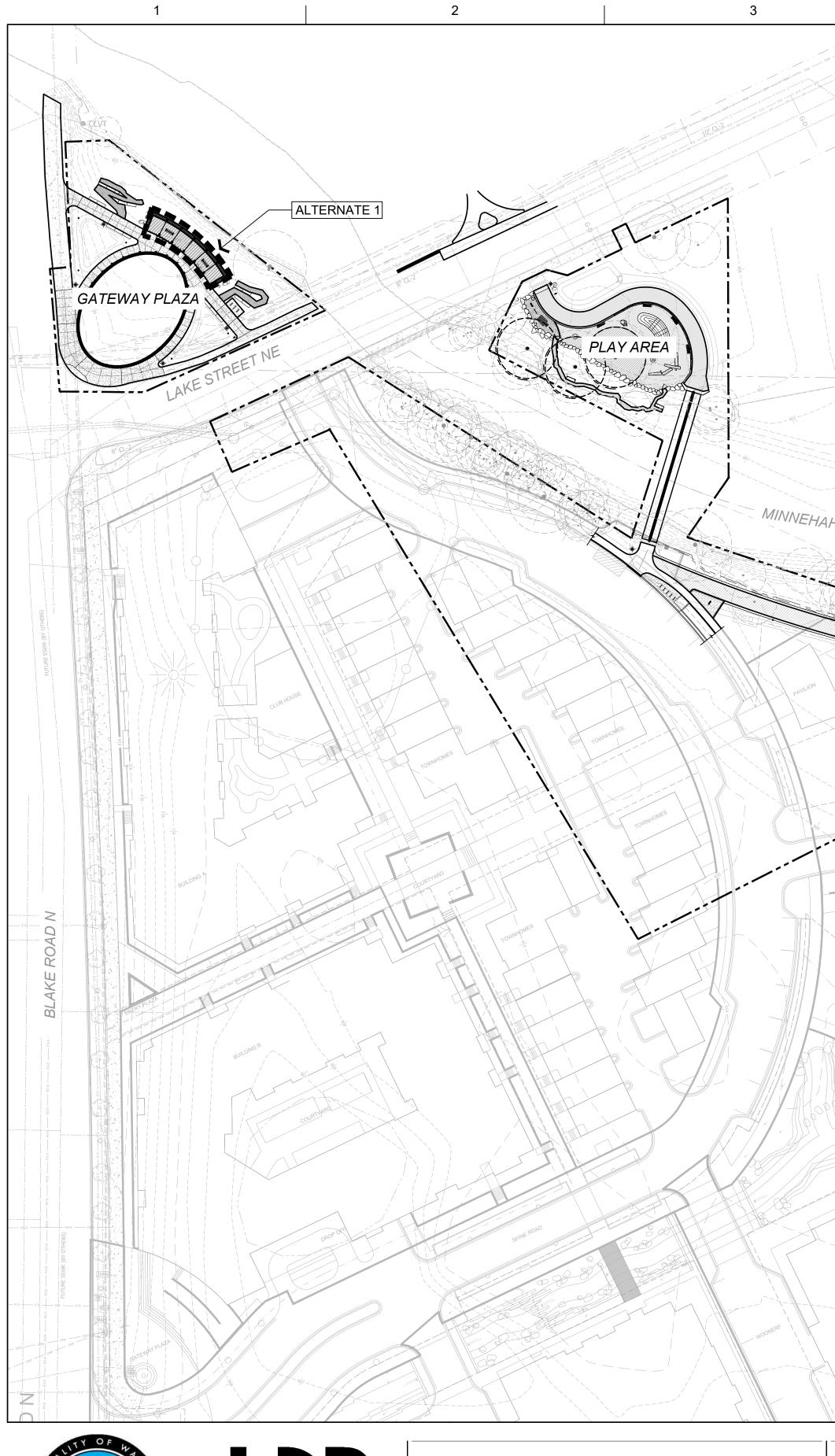
С	03/28/2023	100% DESIGN	
В	09/14/2022	90% DESIGN	
Α	06/13/2022	PFA GRANT PACKAGE	
ISSUE	DATE	DESCRIPTION	

PROJECT MANAGER	ANDREW F. JUDD
PROJECT NUMBER	10268112

THOMAS J WHITLOCK, PLA

MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343

DATE <u>XX/XX/XXXX</u> LICENSE # <u>26292</u>







С	03/28/2023	100% DESIGN	
В	09/14/2022	90% DESIGN	
Α	06/13/2022	PFA GRANT PACKAGE	
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PROJECT MANAGER	ANDREW F. JUDD
PROJECT NUMBER	10268112

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

325 BLAKE RD REGIONAL STORMWATER AND GREENWAY

MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343

THOMAS J WHITLOCK, PLA
DATE XX/XX/XXXX LICENSE # 26292

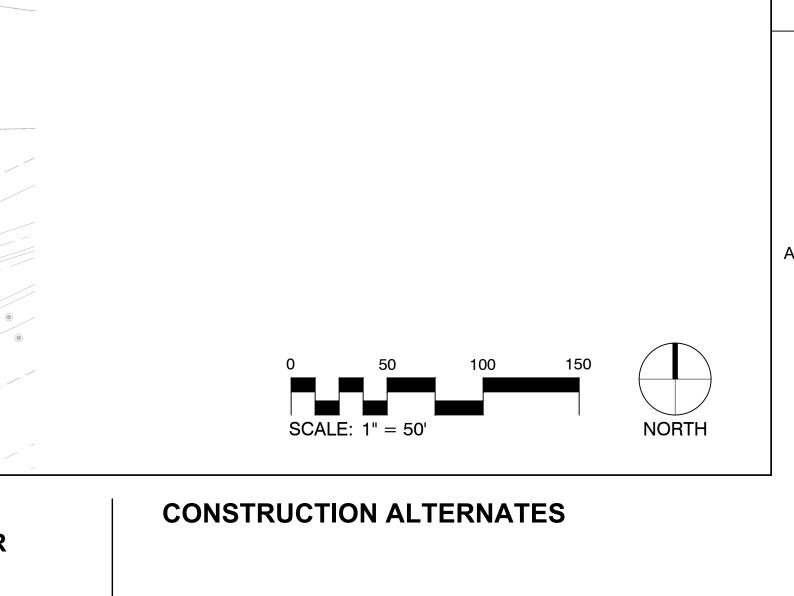
	CONSTRUCTION BID ALTERNATES					
#	DESCRIPTION	BASE BID	ALTERNATE BID	SHEET REFERENCE		
1	P-12 PAVING BELOW PERGOLA	ENGRAVED GRANITE PAVERS (PAVING TYPE 12)	SAND BLASTED DECORATIVE CIP CONCRETE (PAVING TYPE 07 W/ SANDBLAST FINISH)	L011, L214, L543, L544		
2	PLANT WARRANTY WARRANTY EXTENSION ON PLANT MATERIAL BY 1 YEAR	2 YEAR PLANT WARRANTY	3 YEAR PLANT WARRANTY (1 YEAR ADDITIONAL)	SEE PLANTING SPEC		

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TREE PRESERVATION SCHEDULE

SYMBOL	DESCRIPTION	SPECIES	CAL/SIZE	STATUS
T-01	PRESERVE	QUERCUS MACROCARPA	4 DBH	HIGH
T-02	PRESERVE	FRAXINUS PENNSYLVANICA	10 DBH	HIGH
T-03	PRESERVE	ACER NEGUNDO	7 DBH	HIGH
T-04	PRESERVE	ACER NEGUNDO	6 DBH	HIGH
T-05	PRESERVE	ACER NEGUNDO	7 DBH	HIGH
T-06	PRESERVE	ACER NEGUNDO	10 DBH	MEDIUM
T-07	PRESERVE	ACER NEGUNDO	6 DBH	MEDIUM
T-08	PRESERVE	ACER NEGUNDO	6 DBH	LOW
T-09	PRESERVE	ACER NEGUNDO	18 DBH	MEDIUM
T-10	PRESERVE	ACER NEGUNDO	13 DBH	LOW
T-11	PRESERVE	ACER NEGUNDO	9 DBH	LOW
T-12	PRESERVE	ACER NEGUNDO	11 DBH	HIGH
T-13	PRESERVE	ACER NEGUNDO	16 DBH	MEDIUM
T-14	PRESERVE	FRAXINUS PENNSYLVANICA	8 DBH	MEDIUM
T-15	PRESERVE	ACER NEGUNDO	13 DBH	MEDIUM
T-16	PRESERVE	POPULUS GRANDIDENTATA	9 DBH	MEDIUM
T-17	PRESERVE	ACER NEGUNDO	11 DBH	MEDIUM
T-18	DEMO	POPULUS GRANDIDENTATA	9 DBH	LOW
T-19	PRESERVE	ACER NEGUNDO	22 DBH	MEDIUM
T-20	PRESERVE	JUGLANS NIGRA	20 DBH	MEDIUM
T-21	DEMO	POPULUS GRANDIDENTATA	4 DBH	LOW
T-22	DEMO	POPULUS GRANDIDENTATA	6 DBH	LOW
T-23	DEMO	POPULUS GRANDIDENTATA	5 DBH	MEDIUM
T-24	DEMO	POPULUS GRANDIDENTATA	5 DBH	MEDIUM
T-25	DEMO	POPULUS GRANDIDENTATA	6 DBH	MEDIUM
T-26	DEMO	POPULUS GRANDIDENTATA	5 DBH	MEDIUM
T-27	DEMO	ACER NEGUNDO	5 DBH	MEDIUM
T-28	DEMO	FRAXINUS PENNSYLVANICA	6 DBH	MEDIUM
T-29	DEMO	POPULUS DELTOIDES	25 DBH	MEDIUM
T-30	PRESERVE	POPULUS DELTOIDES	19 DBH	HIGH
T-31	PRESERVE	ACER NEGUNDO	4 DBH	HIGH
T-32	DEMO - CLEAR ONLY	ACER NEGUNDO	4 DBH	MEDIUM
T-33	DEMO	POPULUS DELTOIDES	22 DBH	MEDIUM
T-34	DEMO	POPULUS DELTOIDES	22 DBH	MEDIUM
T-35	PRESERVE	ACER NEGUNDO	8 DBH	MEDIUM
T-36	PRESERVE	PRUNUS SEROTINA	12 DBH	HIGH
T-37	DEMO	POPULUS DELTOIDES	13 DBH	MEDIUM
T-38	DEMO	POPULUS DELTOIDES	13 DBH	HIGH
T-39	DEMO	POPULUS DELTOIDES	17 DBH	MEDIUM
T-40	DEMO	ACER NEGUNDO	8 DBH	MEDIUM
T-41	DEMO	POPULUS DELTOIDES	25 DBH	MEDIUM
T-42	PRESERVE	POPULUS DELTOIDES	38 DBH	HIGH
T-43	DEMO	ULMUS AMERICANA	8 DBH	MEDIUM





401 North 2nd Avenue, Suite 410 Minneapolis, MN 55401 p: 612.332.7522

С	03/28/2023	100% DESIGN	
В	09/14/2022	90% DESIGN	
Α	06/13/2022	PFA GRANT PACKAGE	
ISSUE	DATE	DESCRIPTION	

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SYMBOL	DESCRIPTION	SPECIES	CAL/SIZE	STATUS	SYMBOL	DESCRIPTION	SPECIES
T-44	PRESERVE	ACER NEGUNDO	9 DBH	MEDIUM	T-87	PRESERVE	
T-45	PRESERVE	ACER NEGUNDO	5 DBH	MEDIUM	T-88	PRESERVE	ACER NEGUND
T-46	PRESERVE	ACER NEGUNDO	9 DBH	MEDIUM	T-89	PRESERVE	JUNIPERUS VIR
T-47	DEMO	ULMUS AMERICANA	8 DBH	HIGH	T-90	DEMO	JUGLANS NIGRA
Г-48	DEMO	ULMUS AMERICANA	10 DBH	HIGH	T-91	DEMO	ULMUS PUMILA
Г-49	PRESERVE	FRAXINUS PENNSYLVANICA	10 DBH	HIGH	T-92	DEMO	ACER NEGUND
T-50	DEMO	POPULUS GRANDIDENTATA	5 DBH	HIGH	T-93	DEMO	ACER NEGUND
T-51	DEMO	ULMUS PUMILA	7 DBH	MEDIUM	T-94	DEMO	ACER NEGUND
T-52	DEMO	ULMUS AMERICANA	8 DBH	HIGH	T-95	DEMO	ACER NEGUND
T-53	DEMO	ACER NEGUNDO	7 DBH	LOW	T-96	PRESERVE	JUNIPERUS VIR
T-54	PRESERVE	ACER NEGUNDO	6 DBH	MEDIUM	T-97	PRESERVE	JUNIPERUS VIR
T-55	DEMO	ACER NEGUNDO	13 DBH	HIGH	T-98	PRESERVE	PICEA PUNGEN
T-56	DEMO	FRAXINUS PENNSYLVANICA	5 DBH	MEDIUM	T-99	PRESERVE	PICEA PUNGEN
T-57	DEMO	POPULUS DELTOIDES	4 DBH	LOW	T-100	PRESERVE	POPULUS DELT
T-58	DEMO	ACER NEGUNDO	14 DBH	MEDIUM	T-101	PRESERVE	POPULUS DELT
T-59	PRESERVE	ACER NEGUNDO	9 DBH	LOW	T-102	PRESERVE	PRUNUS SERO
T-60	PRESERVE	SALIX NIGRA	19 DBH	LOW	T-103	PRESERVE	PICEA PUNGEN
Г-61	PRESERVE	ACER NEGUNDO	4 DBH	MEDIUM	T-104	PRESERVE	PICEA PUNGEN
Г-62	PRESERVE	ACER NEGUNDO	13 DBH	HIGH	T-105	PRESERVE	PICEA PUNGEN
-63	DEMO	ACER NEGUNDO	15 DBH	HIGH	T-106	PRESERVE	ULMUS AMERIC
Г-64	DEMO	POPULUS DELTOIDES	6 DBH	MEDIUM	T-107	PRESERVE	PICEA PUNGEN
-65	DEMO	ULMUS PUMILA	14 DBH	MEDIUM	T-108	PRESERVE	JUGLANS NIGR
-66	DEMO	ULMUS PUMILA	17 DBH	MEDIUM	T-109	PRESERVE	ACER NEGUND
Г-67	DEMO	FRAXINUS PENNSYLVANICA	6 DBH	HIGH	T-110	PRESERVE	PICEA PUNGEN
-68	DEMO	ULMUS PUMILA	5 DBH	MEDIUM	T-111	PRESERVE	MORUS ALBA
-69	DEMO	POPULUS GRANDIDENTATA	5 DBH	HIGH	T-112	PRESERVE	ACER NEGUND
Γ-70	DEMO	ACER NEGUNDO	7 DBH	MEDIUM	T-113	PRESERVE	ACER NEGUND
-71	DEMO	ACER NEGUNDO	8 DBH	MEDIUM	T-114	PRESERVE	PICEA PUNGEN
-72	PRESERVE	ACER NEGUNDO	13 DBH	MEDIUM	T-115	PRESERVE	
Г-73	DEMO	ACER NEGUNDO	9 DBH	HIGH	T-116	PRESERVE	
Г-74	DEMO	ACER NEGUNDO	11 DBH	MEDIUM	T-117	PRESERVE	PICEA PUNGEN
Г-75	DEMO	ACER NEGUNDO	9 DBH	MEDIUM	T-118	PRESERVE	
Г-76	DEMO	POPULUS GRANDIDENTATA	11 DBH	MEDIUM	T-119	PRESERVE	ACER NEGUND
-77	DEMO	ACER NEGUNDO	8 DBH	LOW	T-120	PRESERVE	ACER NEGUND
Г-78	DEMO	ACER NEGUNDO	19 DBH	HIGH	T-121	PRESERVE	MORUS ALBA
Г-79	DEMO	POPULUS GRANDIDENTATA	10 DBH	MEDIUM	T-122	PRESERVE	MORUS ALBA
Г-80	DEMO	ACER NEGUNDO	8 DBH	MEDIUM	T-123	PRESERVE	MORUS ALBA
-81	DEMO	FRAXINUS PENNSYLVANICA	6 DBH	HIGH	GENERAL	_	
-82	DEMO	FRAXINUS PENNSYLVANICA	4 DBH	MEDIUM		S SUBJECT TO MNDNR BA	
-83	DEMO	FRAXINUS PENNSYLVANICA	4 DBH	LOW		DWING TIME FRAMES: JLY 31 (NLEB REMOVAL RE	STRICTION WINDOW), OF
-84	PRESERVE	FRAXINUS PENNSYLVANICA	5 DBH	HIGH		JLY 31 (OAK WILT RESTRIC	<i>,</i> ,
Г-85	PRESERVE	FRAXINUS PENNSYLVANICA	5 DBH	HIGH		/AY ELECT TO MULCH (DC 'AGED MULCH APPROVED	,
-86	PRESERVE	PRUNUS SEROTINA	10 DBH	HIGH		E PROTECTION PLANS ANI	

PROJECT MANAGER ANDREW F. JUDD

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

325 BLAKE RD REGIONAL STORMWATER AND GREENWAY

MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343

PROJECT NUMBER 10268112

DATE XX/XX/XXXX LICENSE # 26292

THOMAS J WHITLOCK, PLA

SPECIES	CAL/SIZE	STATUS	
ACER NEGUNDO	14 DBH	MEDIUM	
ACER NEGUNDO	4 DBH	MEDIUM	
JUNIPERUS VIRGINIANA	7 DBH	MEDIUM	
JUGLANS NIGRA	18 DBH	HIGH	
ULMUS PUMILA	11 DBH	LOW	
ACER NEGUNDO	14 DBH	LOW	
ACER NEGUNDO	12 DBH	MEDIUM	
ACER NEGUNDO	12 DBH	MEDIUM	
ACER NEGUNDO	13 DBH	LOW	
JUNIPERUS VIRGINIANA	11 DBH	HIGH	
JUNIPERUS VIRGINIANA	13 DBH	MEDIUM	
PICEA PUNGENS	15 DBH	HIGH	
PICEA PUNGENS	17 DBH	MEDIUM	
POPULUS DELTOIDES	41 DBH	MEDIUM	
POPULUS DELTOIDES	28 DBH	MEDIUM	
PRUNUS SEROTINA	6 DBH	LOW	
PICEA PUNGENS	18 DBH	MEDIUM	
PICEA PUNGENS	12 DBH	MEDIUM	
PICEA PUNGENS	15 DBH	LOW	
ULMUS AMERICANA	25 DBH	MEDIUM	
PICEA PUNGENS	16 DBH	HIGH	
JUGLANS NIGRA	8 DBH	MEDIUM	
ACER NEGUNDO	9 DBH	LOW	
PICEA PUNGENS	16 DBH	LOW	
MORUS ALBA	10 DBH	MEDIUM	
ACER NEGUNDO	14 DBH	MEDIUM	
ACER NEGUNDO	9 DBH	MEDIUM	
PICEA PUNGENS	17 DBH	LOW	
ACER NEGUNDO	5 DBH	MEDIUM	
ACER NEGUNDO	13 DBH	MEDIUM	
PICEA PUNGENS	16 DBH	MEDIUM	
ACER NEGUNDO	13 DBH	MEDIUM	
ACER NEGUNDO	14 DBH	MEDIUM	
ACER NEGUNDO	9 DBH	MEDIUM	
MORUS ALBA	5 DBH	LOW	
MORUS ALBA	17 DBH	MEDIUM	
MORUS ALBA	4 DBH	MEDIUM	
BERNACULA/ROOST AND OAK WILT F E VENT DISEASE, ROOT DAMAGE, ANI	-		
RICTION WINDOW), OR; N WINDOW)			
LE SHRED) & STOCKPILE ON SITE MUL R USE IN NATURAL AREAS AROUND T			

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3. REFER TO TREE PROTECTION PLANS AND DETAILS FOR TREE PROTECTION MEASURES & LOCATIONS.

TREE PROTECTION SCHEDULE SHEET FILENAME L005 SCALE N/A

TREE PRESERVATION SCHEDULE

	RESERVATION	DOTIEDULE		
SYMBOL	DESCRIPTION	SPECIES	CAL/SIZE	STATUS
T-124	PRESERVE	MORUS ALBA	7 DBH	MEDIUM
T-125	PRESERVE	ACER NEGUNDO	11 DBH	MEDIUM
T-126	PRESERVE	MORUS ALBA	8 DBH	MEDIUM
T-127	PRESERVE	CELTIS OCCIDENTALIS	8 DBH	MEDIUM
T-128	PRESERVE	CELTIS OCCIDENTALIS	10 DBH	HIGH
T-129	PRESERVE	ACER NEGUNDO	5 DBH	HIGH
T-130	PRESERVE	ACER NEGUNDO	8 DBH	MEDIUM
T-131	DEMO	ACER NEGUNDO	5 DBH	MEDIUM
T-132	DEMO - CLEAR ONLY	MORUS ALBA	10 DBH	MEDIUM
T-133	DEMO - CLEAR ONLY	JUNIPERUS VIRGINIANA	16 DBH	HIGH
T-134	PRESERVE	FRAXINUS PENNSYLVANICA	11 DBH	HIGH
T-135	PRESERVE	ACER NEGUNDO	8 DBH	MEDIUM
T-136	PRESERVE	ACER NEGUNDO	12 DBH	MEDIUM
T-137	PRESERVE	PICEA PUNGENS	16 DBH	MEDIUM
T-138	DEMO	ULMUS AMERICANA	13 DBH	MEDIUM
T-139	DEMO	ACER NEGUNDO	4 DBH	MEDIUM
T-140	DEMO	ACER NEGUNDO	6 DBH	MEDIUM
T-141	DEMO	ACER NEGUNDO	7 DBH	MEDIUM
T-142	DEMO	PICEA PUNGENS	18 DBH	LOW
T-143	DEMO	ACER NEGUNDO	7 DBH	MEDIUM
T-144	DEMO - CLEAR ONLY	CELTIS OCCIDENTALIS	7 DBH	HIGH
T-145	PRESERVE	ACER NEGUNDO	10 DBH	LOW
T-146	DEMO	ACER NEGUNDO	5 DBH	MEDIUM
T-147	PRESERVE	ULMUS AMERICANA	18 DBH	MEDIUM
T-148	PRESERVE	FRAXINUS PENNSYLVANICA	4 DBH	MEDIUM
T-149	PRESERVE	FRAXINUS PENNSYLVANICA	5 DBH	HIGH
T-150	PRESERVE	POPULUS DELTOIDES	22 DBH	HIGH
T-151	DEMO - SALVAGE	QUERCUS MACROCARPA	33 DBH	HIGH
T-152	PRESERVE	POPULUS DELTOIDES	27 DBH	HIGH
T-153	DEMO	TILIA AMERICANA	6 DBH	HIGH
T-154	DEMO	MORUS ALBA	5 DBH	MEDIUM
T-155	DEMO	ULMUS AMERICANA	4 DBH	HIGH
T-156	DEMO	ULMUS AMERICANA	9 DBH	MEDIUM
T-157	PRESERVE	TILIA AMERICANA	6 DBH	HIGH
T-158	PRESERVE	POPULUS DELTOIDES	25 DBH	MEDIUM
T-159	PRESERVE	POPULUS DELTOIDES	21 DBH	HIGH
T-160	PRESERVE	POPULUS DELTOIDES	13 DBH	MEDIUM
T-161	PRESERVE	TILIA AMERICANA	6 DBH	HIGH
T-162	PRESERVE	ULMUS AMERICANA	6 DBH	LOW
T-163	PRESERVE	POPULUS DELTOIDES	20 DBH	LOW
T-164	PRESERVE	ULMUS AMERICANA	5 DBH	MEDIUM
T-165	PRESERVE	ULMUS AMERICANA	4 DBH	MEDIUM
T-166	PRESERVE	ULMUS AMERICANA	9 DBH	MEDIUM
TY OF				





401 North 2nd Avenue, Suite 410 Minneapolis, MN 55401 p: 612.332.7522

С	03/28/2023	100% DESIGN
В	09/14/2022	90% DESIGN
Α	06/13/2022	PFA GRANT PACKAGE
ISSUE	DATE	DESCRIPTION

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SYMBOLDESCRIPTIONSPECIESCAL/SIZESTATUSSYMBOLDESCRT-167PRESERVETILIA AMERICANA4 DBHHIGHT-210PREST-168PRESERVETILIA AMERICANA4 DBHHIGHT-211PREST-169PRESERVETILIA AMERICANA4 DBHHIGHT-212PREST-170PRESERVETILIA AMERICANA9 DBHHIGHT-213PREST-171PRESERVETILIA AMERICANA9 DBHHIGHT-214PREST-172PRESERVETILIA AMERICANA5 DBHMEDIUMT-216PREST-173PRESERVEULMUS AMERICANA6 DBHLOWT-216PREST-174PRESERVETILIA AMERICANA6 DBHHIGHT-218PREST-175PRESERVETILIA AMERICANA4 DBHMEDIUMT-219PREST-176PRESERVEPOPULUS DELTOIDES11 DBHMEDIUMT-220PREST-177PRESERVETILIA AMERICANA4 DBHHIGHT-220PREST-176PRESERVETILIA AMERICANA4 DBHMEDIUMT-220PREST-177PRESERVETILIA AMERICANA4 DBHMEDIUMT-220PREST-176PRESERVETILIA AMERICANA4 DBHHIGHT-221PREST-177PRESERVETILIA AMERICANA4 DBHHIGHT-221PREST-178PRESERVETILIA AMERICANA4 DBHHIGHT-221PREST-177 <th>ERVATI</th>	ERVATI
T-168PRESERVETILIA AMERICANA4 DBHHIGHT-211PREST-169PRESERVETILIA AMERICANA4 DBHHIGHT-212PREST-170PRESERVETILIA AMERICANA9 DBHHIGHT-213PREST-171PRESERVEPOPULUS DELTOIDES15 DBHMEDIUMT-214PREST-172PRESERVETILIA AMERICANA5 DBHHIGHT-215PREST-173PRESERVEULMUS AMERICANA6 DBHLOWT-216PREST-174PRESERVETILIA AMERICANA6 DBHHIGHT-217PREST-175PRESERVETILIA AMERICANA4 DBHHIGHT-218PREST-176PRESERVEPOPULUS DELTOIDES20 DBHMEDIUMT-219PREST-177PRESERVEPOPULUS DELTOIDES11 DBHMEDIUMT-220PREST-178PRESERVETILIA AMERICANA4 DBHHIGHT-221PRES	RIPTION
T-169PRESERVETILIA AMERICANA4 DBHHIGHT-212PREST-170PRESERVETILIA AMERICANA9 DBHHIGHT-213PREST-171PRESERVEPOPULUS DELTOIDES15 DBHMEDIUMT-214PREST-172PRESERVETILIA AMERICANA5 DBHHIGHT-215PREST-173PRESERVEULMUS AMERICANA6 DBHLOWT-216PREST-174PRESERVETILIA AMERICANA6 DBHHIGHT-217PREST-175PRESERVETILIA AMERICANA4 DBHHIGHT-218PREST-176PRESERVEPOPULUS DELTOIDES11 DBHMEDIUMT-220PREST-177PRESERVETILIA AMERICANA4 DBHHIGHT-220PREST-177PRESERVETILIA AMERICANA4 DBHHIGHT-220PREST-177PRESERVETILIA AMERICANA4 DBHHIGHT-221PREST-177PRESERVETILIA AMERICANA4 DBHHIGHT-221PREST-177PRESERVETILIA AMERICANA4 DBHHIGHT-221PRES	ERVE
T-170PRESERVETILIA AMERICANA9 DBHHIGHT-213PREST-171PRESERVEPOPULUS DELTOIDES15 DBHMEDIUMT-214PREST-172PRESERVETILIA AMERICANA5 DBHHIGHT-215PREST-173PRESERVEULMUS AMERICANA6 DBHLOWT-216PREST-174PRESERVETILIA AMERICANA6 DBHHIGHT-217PREST-175PRESERVETILIA AMERICANA4 DBHHIGHT-218PREST-176PRESERVEPOPULUS DELTOIDES20 DBHMEDIUMT-219PREST-177PRESERVEPOPULUS DELTOIDES11 DBHMEDIUMT-220PREST-178PRESERVETILIA AMERICANA4 DBHHIGHT-221PRES	ERVE
T-171PRESERVEPOPULUS DELTOIDES15 DBHMEDIUMT-214PREST-172PRESERVETILIA AMERICANA5 DBHHIGHT-215PREST-173PRESERVEULMUS AMERICANA6 DBHLOWT-216PREST-174PRESERVETILIA AMERICANA6 DBHHIGHT-217PREST-175PRESERVETILIA AMERICANA6 DBHHIGHT-218PREST-176PRESERVETILIA AMERICANA4 DBHMEDIUMT-219PREST-177PRESERVEPOPULUS DELTOIDES11 DBHMEDIUMT-220PREST-178PRESERVETILIA AMERICANA4 DBHHIGHT-221PRES	ERVE
T-172PRESERVETILIA AMERICANA5 DBHHIGHT-215PREST-173PRESERVEULMUS AMERICANA6 DBHLOWT-216PREST-174PRESERVETILIA AMERICANA6 DBHHIGHT-217PREST-175PRESERVETILIA AMERICANA4 DBHHIGHT-218PREST-176PRESERVEPOPULUS DELTOIDES20 DBHMEDIUMT-219PREST-177PRESERVEPOPULUS DELTOIDES11 DBHMEDIUMT-220PREST-178PRESERVETILIA AMERICANA4 DBHHIGHT-221PREST-178PRESERVETILIA AMERICANA4 DBHHIGHT-221PRES	ERVE
T.173PRESERVEULMUS AMERICANA6 DBHLOWT-216PREST.174PRESERVETILIA AMERICANA6 DBHHIGHT-217PREST.175PRESERVETILIA AMERICANA4 DBHHIGHT-218PREST.176PRESERVEPOPULUS DELTOIDES20 DBHMEDIUMT-219PREST.177PRESERVEPOPULUS DELTOIDES11 DBHMEDIUMT-220PREST.178PRESERVETILIA AMERICANA4 DBHHIGHT-221PRES	ERVE
T-174PRESERVETILIA AMERICANA6 DBHHIGHT-217PREST-175PRESERVETILIA AMERICANA4 DBHHIGHT-218PREST-176PRESERVEPOPULUS DELTOIDES20 DBHMEDIUMT-219PREST-177PRESERVEPOPULUS DELTOIDES11 DBHMEDIUMT-220PREST-178PRESERVETILIA AMERICANA4 DBHHIGHT-221PRES	ERVE
T-175PRESERVETILIA AMERICANA4 DBHHIGHT-218PREST-176PRESERVEPOPULUS DELTOIDES20 DBHMEDIUMT-219PREST-177PRESERVEPOPULUS DELTOIDES11 DBHMEDIUMT-220PREST-178PRESERVETILIA AMERICANA4 DBHHIGHT-221PRES	ERVE
T-176PRESERVEPOPULUS DELTOIDES20 DBHMEDIUMT-219PREST-177PRESERVEPOPULUS DELTOIDES11 DBHMEDIUMT-220PREST-178PRESERVETILIA AMERICANA4 DBHHIGHT-221PRES	ERVE
T-177PRESERVEPOPULUS DELTOIDES11 DBHMEDIUMT-220PREST-178PRESERVETILIA AMERICANA4 DBHHIGHT-221PREST-178TILIA AMERICANA4 DBHHIGHT-221PRES	ERVE
T-178 PRESERVE TILIA AMERICANA 4 DBH HIGH T-221 PRES	ERVE
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T-179PRESERVETILIA AMERICANA4 DBHHIGHT-222PRES	ERVE
	ERVE
T-180PRESERVEPOPULUS DELTOIDES21 DBHMEDIUMT-223PRES	ERVE
T-181 PRESERVE TILIA AMERICANA 7 DBH HIGH T-224 PRESERVE	ERVE
T-182PRESERVETILIA AMERICANA4 DBHHIGHT-225PRESERVE	ERVE
T-183PRESERVEPOPULUS DELTOIDES16 DBHMEDIUMT-226PRESERVE	ERVE
T-184PRESERVETILIA AMERICANA5 DBHHIGHT-227PRESERVE	ERVE
T-185PRESERVESORBUS AUCUPARIA8 DBHLOWT-228PRESERVE	ERVE
T-186PRESERVETILIA AMERICANA4 DBHHIGHT-229PRESERVE	ERVE
T-187PRESERVEPOPULUS DELTOIDES14 DBHHIGHT-230PRESERVE	ERVE
T-188PRESERVEPOPULUS DELTOIDES16 DBHMEDIUMT-231PRESERVE	ERVE
T-189PRESERVETILIA AMERICANA6 DBHHIGHT-232PRESERVE	ERVE
T-190PRESERVEULMUS AMERICANA5 DBHMEDIUMT-233PRES	ERVE
T-191 PRESERVE ULMUS AMERICANA 4 DBH HIGH T-234 PRES	ERVE
T-192 PRESERVE ULMUS AMERICANA 7 DBH MEDIUM T-235 PRES	ERVE
T-193PRESERVEULMUS AMERICANA4 DBHLOWT-236PRES	ERVE
T-194PRESERVEPOPULUS DELTOIDES17 DBHMEDIUMT-237PRES	ERVE
T-195PRESERVEPOPULUS DELTOIDES11 DBHMEDIUMT-238DEMO)
T-196PRESERVEPOPULUS DELTOIDES20 DBHHIGHT-239DEMO)
T-197 PRESERVE ULMUS AMERICANA 7 DBH MEDIUM T-240 PRES	ERVE
T-198 PRESERVE ULMUS AMERICANA 6 DBH MEDIUM T-241 DEMO)
T-199PRESERVETILIA AMERICANA7 DBHHIGHT-242PRESERVE	ERVE
T-200PRESERVEPOPULUS DELTOIDES15 DBHHIGHT-247PRES	ERVE
T-201PRESERVEULMUS AMERICANA5 DBHMEDIUMT-248PRES	ERVE
T-202 PRESERVE POPULUS DELTOIDES 15 DBH MEDIUM	
T-203 PRESERVE POPULUS DELTOIDES 32 DBH MEDIUM GENERAL NOTE	
T-204 PRESERVE FRAXINUS PENNSYLVANICA 4 DBH HIGH 1. TREE REMOVALS SU WINTER TREE REMOV	ALS ON F
T-205PRESERVETILIA AMERICANA6 DBHHIGHAND HABITAT DAMAG-JUNE 1- JULY 31	(NLEB RE
T-206 PRESERVE ULMUS AMERICANA 4 DBH MEDIUM -APRIL 1- JULY 3	1 (OAK WI
T-207PRESERVESALIX NIGRA24 DBHMEDIUM2. CONTRACTOR MAY BRANCHES SALVAGED	
T-208 PRESERVE TILIA AMERICANA 4 DBH HIGH AREAS AROUND TREE	
T-209 PRESERVE TILIA AMERICANA 4 DBH HIGH 3. REFER TO TREE PR	

PROJECT MANAGER ANDREW F. JUDD PROJECT NUMBER 10268112

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER MY DIRECT

SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

325 BLAKE RD REGIONAL STORMWATE AND GREENWAY

MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343

THOMAS J WHITLOCK, PLA DATE <u>XX/XX/XXXX</u> LICENSE # <u>26292</u>

<u> </u>	<u>SPECIES</u>	CAL/SIZE	STATUS
		8 DBH	HIGH
		4 DBH	HIGH
		5 DBH	HIGH
		4 DBH	HIGH
		8 DBH	HIGH
	FRAXINUS PENNSYLVANICA	4 DBH	MEDIUM
	FRAXINUS PENNSYLVANICA	9 DBH	-
	FRAXINUS PENNSYLVANICA	4 DBH	HIGH
	FRAXINUS PENNSYLVANICA FRAXINUS PENNSYLVANICA	4 DBH 5 DBH	MEDIUM
	FRAXINUS PENNSYLVANICA	5 DBH 6 DBH	MEDIUM
	ULMUS AMERICANA	5 DBH	
	MORUS ALBA MORUS ALBA	5 DBH 5 DBH	MEDIUM
	MORUS ALBA	5 DBH	MEDIUM
	QUERCUS MACROCARPA	31 DBH	MEDIUM
	ACER NEGUNDO	7 DBH	MEDIUM
	ULMUS AMERICANA	6 DBH	LOW
	ULMUS AMERICANA	6 DBH	MEDIUM
	QUERCUS MACROCARPA	33 DBH	N/A
	ACER NEGUNDO	7 DBH	LOW
	QUERCUS MACROCARPA	30 DBH	MEDIUM
	ULMUS AMERICANA	5 DBH	HIGH
		7 DBH	HIGH
	FRAXINUS PENNSYLVANICA	9 DBH	MEDIUM
	ULMUS AMERICANA	15 DBH	MEDIUM
	ULMUS AMERICANA	12 DBH	HIGH
	ACER NEGUNDO	15 DBH	HIGH
	FRAXINUS PENNSYLVANICA	21 DBH	HIGH
	BETULA PAPYRIFERA	11 DBH	MEDIUM
	POPULUS DELTOIDES	30 DBH	HIGH
	ACER NEGUNDO	9 DBH	HIGH
	ULMUS AMERICANA	10 DBH	MEDIUM
	ACER NEGUNDO	6 DBH	LOW
	FRAXINUS PENNSYLVANICA	10 DBH	HIGH

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TO MNDNR BAT HIBERNACULA/ROOST AND OAK WILT REMOVAL TIMEFRAMES. FROZEN GROUND IS RECOMMENDED TO PREVENT DISEASE, ROOT DAMAGE, NOT REMOVE TREES WITHIN THE FOLLOWING TIME FRAMES: REMOVAL RESTRICTION WINDOW), OR; WILT RESTRICTION WINDOW)

TO MULCH (DOUBLE SHRED) & STOCKPILE ON SITE MULCHED LIMBS & TREE REMOVALS. SALVAGED MULCH APPROVED FOR USE IN NATURAL HRUB PLANTINGS.

ION PLANS AND DETAILS FOR TREE PROTECTION MEASURES & LOCATIONS.

ER	TREE PROTECTION SCHEDU	JLE
	0 1" 2" FILENAME SCALE N/A	sнеет L006

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	S SCHEDULE									
		UIRE CONTRACTOR VERIFIC	JATION							
	MENITY ESCRIPTION	QTY	DETAIL	MATERIAL PROFILE/ASSEMBLY	MANUFACTURER	PRODUCT/M		COLOR/FINISH	COMMENTS	SPEC #
	MENITY TYPE 01 - PEDESTRIAN BRIDGE	102 LI		SEE CIVIL	SEE CIVIL	SEE CIVIL	JDEL	COLOR/FINISH	SEE CIVIL	SEE CIVIL
	MENITY TYPE 02 - PERGOLA	1	2/L542	HSS FRAME WITH WOOD PERLINS OVER	CUSTOM	CUSTOM		WHITE POWDERCOAT FINISH, SUBMIT COLOR		05-5001
		I	2/2042	CONCRETE FOOTINGS GALVANIZED STEEL STRUCTURE OVER		000101		SAMPLES	PROVIDE ENGINEERED SHOP DRAWINGS FOR	
M-03 A	MENITY TYPE 03 - KAYAK RACK	1	2/L581	CONCRETE FOOTINGS	CUSTOM	CUSTOM		CUSTOM	FOOTING DESIGN	05-5001
M-04 A	MENITY TYPE 04 - FIRE PIT	1	1/L580	NATURAL CUT LIMESTONE	CUSTOM OR APPROVED PRODUCT	CUSTOM OR	APPROVED PRODUCT	WEATHERING STEEL		05 5001
M-05 A	MENITY TYPE 05 - BAT ROCKET BOX	1	1/L582	NON-TREATED WOOD BAT HOUSE	CUSTOM OR APPROVED PRODUCT	CUSTOM OR	APPROVED PRODUCT	NO DARK PAINT, NO OIL-BASED STAINS OR PAINTS.		06 1000
M-06 A	MENITY TYPE 06 - BLUEBIRD HOUSE	3	2/L582	NON-TREATED WOOD	CUSTOM OR APPROVED PRODUCT	CUSTOM OR	APPROVED PRODUCT	NEUTRAL COLOR, NO OIL-BASED FINISHES		06 1000
M-07 A	MENITY TYPE 07 - WOOD DUCK BOX	3	3/L582	NON-TREATED WOOD	CUSTOM OR APPROVED PRODUCT	CUSTOM OR	APPROVED PRODUCT	NO OIL BASED OR BRIGHT COLORED FINISHES		06 1000
M-08 A	MENITY TYPE 08 - WOOD ENGRAVING	6	2/L583	SANDBLASTED GRAPHICS WITH PAINT INFILL	CUSTOM	CUSTOM		BLACK PAINT INFILL		09 0000
	MENITY TYPE 09 - STONE ENGRAVING	4	3/L583	SANDBLASTED GRAPHICS WITH PAINT INFILL	CUSTOM	CUSTOM		BLACK PAINT INFILL		09 0000
M-10 A	MENITY TYPE 10 - CONCRETE ENGRAVING	1	1/L584	SANDBLASTED GRAPHICS WITH PAINT INFILL STAINLESS STEEL STAFF GAUGE ATTACHED	CUSTOM	CUSTOM		BLACK PAINT INFILL		09 0000
M-11 A	MENITY TYPE 11 - STAFF GAUGE	2	2/L580	TO OUTLET STRUCTURE	CUSTOM	CUSTOM		BRUSHED STAINLESS STEEL		05 5001
С	URB									
ODE D	ESCRIPTION	QTY	DETAIL	MATERIAL PROFILE/ASSEMBLY	MANUFACTURER	PRODUCT/M	DDEL	COLOR/FINISH	COMMENTS	SPEC #
:B-01 C	URB TYPE 01 - 8" CIP CONCRETE PLANTER CURE	3 210 L	= 1/L510	8" W X 6" H REINFORCED CONCRETE CURB, OVER COMPACTED AGGREGATE, COMPACTED	STANDARD CONCRETE	STANDARD (CONCRETE	BROOM FINISH PARALLEL WITH TRAFFIC FLOW	1	03 0005
:B-02 C	URB TYPE 02 - 8" CIP CONCRETE RIBBON CURB	236 L	= 2/L510	SUBGRADE 8" WIDTH AT GRADE REINFORCED CONCRETE CURB OVER COMPACTED AGGREGATE BASE,	STANDARD CONCRETE	STANDARD (ONCRETE	BROOM FINISH PARALLEL WITH TRAFFIC FLOW	1	03 0005
202 0		200 L		COMPACTED SUBGRADE 12" WIDTH AT GRADE REINFORCED CONCRETE						
B-03 C	URB TYPE 03 - 12" CIP CONCRETE PLAY AREA CL	JRB 158 LI	- 3/L510			STANDARD	ONCRETE	BROOM FINISH PARALLEL WITH TRAFFIC FLOW	1	03 0005
B-04 C	URB TYPE 04 - 12" CIP CONCRETE PLANTER CUR	RB 91 LF	4/L510		STANDARD CONCRETE	STANDARD (ONCRETE	BROOM FINISH PARALLEL WITH TRAFFIC FLOW	/	03 0005
E	DGING									
ODE D	ESCRIPTION	QTY	DETAIL	MATERIAL PROFILE/ASSEMBLY	MANUFACTURER	PRODUCT/M	DDEL	COLOR/FINISH	COMMENTS	SPEC #
D-01 E	DGING TYPE 01 - STONE EDGING	254 L	= 1/L511	LIMESTONE EDGING, 4" WIDTH X 18" LENGTHS OVER COMPACTED AGGREGATE BASE FIELD CUT TO 8" LENGTHS WHEN SET ON RADIUS		LIMESTONE		SPLIT FACES, LIMESTONE TYPE TO MATCH OTHER STONE ELEMENTS		32 3224
D-02 E	DGING TYPE 02 - STEEL EDGING	136 LI	- 3/L511	3/16" GALVANIZED STEEL EDGING W/ 15" STAKE	SEE SPEC			GALV STEEL		32 9300
FI	ENCE & GUARDRAIL									
	ESCRIPTION	QTY	DETAIL	MATERIAL PROFILE/ASSEMBLY	MANUFACTURER	PRODUCT/M	ODEL	COLOR/FINISH	COMMENTS	SPEC #
E-01A G	UARDRAIL TYPE 01A - WALL MOUNT GUARDRAIL	. 84 LF	1/L551	42" HEIGHT CUSTOM GALVANIZED STEEL GUARDRAIL MOUNTED TO CONCRETE WALL	CUSTOM	CUSTOM		HOT-DIPPED GALVANIZED: SEE SPEC		05-5001
E-01B G	UARDRAIL TYPE 01B - PLATE MOUNT GUARDRAII	L 27 LF	2/L551	42" HEIGHT CUSTOM GALVANIZED STEEL GUARDRAIL MOUNTED TO CONCRETE WALK WITH THICKENED CONCRETE EDGE	CUSTOM	CUSTOM		HOT-DIPPED GALVANIZED: SEE SPEC		05-5001
E-02 FI	ENCE TYPE 02 - WOOD POST & ROPE FENCE	82 LF	1/L552	8" DIA TIMBER POSTS WITH GALVANIZED STEEL SHOE MOUNTED TO CONCRETE CURB, 2" HEAVY-DUTY POLYPROPYLENE ROPE	CUSTOM	CUSTOM		CEDAR POST, HOT-DIPPED GALVANIZED SHOE		06 1000
G	ATE									
ODE D	ESCRIPTION	QTY	DETAIL	MATERIAL PROFILE/ASSEMBLY	MANUFACTURER	PRODUCT/M	DDEL	COLOR/FINISH	COMMENTS	SPEC #
A-01 G	ATE TYPE 01 - PLAY AREA TIMBER GATE	2	2/L552	4` X 4` TIMBER FRAME GATE, CEDAR WITH GALV STEEL POST SHOE SET OVER SONOTUBE FOOTING	CUSTOM	CUSTOM		CEDAR FRAME WITH METAL MESH INTERIOR	SHOP DRAWINGS TO BE PROVIDED AND APPROVED BY LANDSCAPE ARCHITECT	06 1000
LI	IGHTING									
ODE D	ESCRIPTION	QTY	DETAIL	MATERIAL PROFILE/ASSEMBLY	MANUFACTURER	PRODUCT/M	DDEL	COLOR/FINISH	COMMENTS	SPEC #
Г-01 LI	IGHT TYPE 01 - PEDESTRIAN SCALE POLE LIGHT	13	2/L584		SEE ELECTRICAL	SEE ELECTR	ICAL	SUBMIT SAMPLES, IN SILVER COLOR FAMILY	SEE ELECTRICAL PLANS	26 50 00
Г-02 LI	GHT TYPE 02 - WALL PACK	26		RECESSED WALL LIGHT SET INTO CONCRETE CIP WALL	SEE ELECTRICAL	SEE ELECTR	ICAL	SUBMIT SAMPLES, IN GRAY COLOR FAMILY	SEE ELECTRICAL PLANS	26 50 00
Г-03 LI	IGHT TYPE 03 - TREE UPLIGHTS	16		FLOOD LIGHT SET ON GROUND SPIKE	SEE ELECTRICAL	SEE ELECTR	ICAL	SUBMIT SAMPLES, IN GRAY COLOR FAMILY	SEE ELECTRICAL PLANS	26 50 00
Г-04 LI	GHT TYPE 04 - PERGOLA LETTERING UPLIGHTS	14		MINI FLOOD LIGHT	SEE ELECTRICAL	SEE ELECTR	ICAL	SUBMIT SAMPLES, IN WHITE COLOR FAMILY	SEE ELECTRICAL PLANS	26 50 00
-05 LI	IGHT TYPE 05 - PERGOLA DOWN LIGHT	50 LF		LED SURFACE MOUNT LIGHT TO BOTTOM OF PERGOLA BEAM	SEE ELECTRICAL	SEE ELECTR	ICAL	SUBMIT SAMPLES, IN WHITE COLOR FAMILY	SEE ELECTRICAL PLANS	26 50 00
M	IINERAL MULCH									
DDE D	ESCRIPTION	QTY	DETAIL			PRODUCT/M		COLOR/FINISH	COMMENTS	SPEC #
M-01 M	IINERAL MULCH TYPE 1 - 6-9" TRAP ROCK	188 S	- /	6-9" ANGULAR TRAP ROCK	DRESSER TRAP ROCK	6-9" WASHEI	, 	CLEAN WASHED		32 1540
Y OF W				PROJECT MANAGER ANDREV	V F. JUDD I HEREBY CERTIFY THAT THIS PLAN, SPE REPORT WAS PREPARED BY OR UNDE				SITE MATERIALS SCH	IEDULE
					SUPERVISION AND THAT I AM A DUL PROFESSIONAL LANDSCAPE ARCHITECT I OF THE STATE OF MINNESO	(LICENSED INDER THE LAWS	325 BLAKE RD REC AND GREENWAY	SIONAL STORMWATER		
		C 03/28/2023 100% DESIG	۸							
TYOF	DF/ DAMON FARBER	3 09/14/2022 90% DESIGN					MINNEHAHA CREEK WATERSHED I 325 BLAKE RD		1" 2" FILENAME	SHEET
and the second	LANDSCAPE ARCHITECTS	A 06/13/2022 PFA GRANT	FAUNAGE							L01





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С	03/28/2023	100% DESIGN		-
В	09/14/2022	90% DESIGN		-
Α	06/13/2022	PFA GRANT PACKAGE		
ISSUE	DATE	DESCRIPTION		
			I	

	TIES DEPICTED BELOW ARE ESTIMATES AND REQUIRE CONTRACTO	OR VERIFICAT	ION				
	PAVING						
CODE	DESCRIPTION	QTY	DETAIL	MATERIAL PROFILE/ASSEMBLY	MANUFACTURER	PRODUCT/MODEL	COLOR/FINISH
P-01	PAVING TYPE 01 - BITUMINOUS PAVING (SEE CIVIL)	11,017 SF		SEE CIVIL PERMEABLE PAVERS OVER PERMEABLE	SEE CIVIL	SEE CIVIL	SEE CIVIL
P-02	PAVING TYPE 02 - PERMEABLE CONCRETE UNIT PAVERS	1,919 SF	3/L500	AGGREGATE BASE OVER COMPACTED SUBGRADE	ENDICOTT	2-1/4" X 4" X 8" PERMEABLE	MANGANESE IRON
P-03	PAVING TYPE 03 - CONCRETE PAVING	540 SF	1/L502	SEE CIVIL	SEE CIVIL	SEE CIVIL	GRAY, MEDIUM BF
P-04A	PAVING TYPE 04A - CRUSHED STONE SURFACING	1,477 SF	4/L501	3/8" LIMESTONE AGGREGATE WITH FINES, 4" DEPTH, INSTALLED IN TWO LIFTS, SET OVER COMPACTED AGGREGATE BASE, OVER COMPACTED SUBGRADE	REGIONALLY SOURCED, PROVIDE SUBMITTAL	LIMESTONE TRAIL MIX - 3/8" MINUS	NATURAL
P-05	PAVING TYPE 05 - LANDING MIX (SEE CIVIL)	1,697 SF		SEE CIVIL "1.5"" THICK LIMESTONE FLAGGING,	SEE CIVIL	SEE CIVIL	SEE CIVIL
P-06	PAVING TYPE 6 - LIMESTONE FLAGGING	15 SF	1/L580	LIMESTONE AGGREGATE SEPARATION LAYER, COMPACTED AGGREGATE BASE OVER COMPACTED SUBGRADE" 4" REINFORCED INTEGRAL COLORED	"BIESANZ, VETTER, KASOTA, OR APPROVED EQUAL "		NATURAL CLEFT
P-07	PAVING TYPE 07 - DECORATIVE CONCRETE PAVING	924 SF	2/L543	CONCRETE PAVING WITH SEEDED AGGREGATE FINISH, SET OVER COMPACTED AGGREGATE BASE, OVER COMPACTED SUBGRADE	BULACH OR APPROVED EQUAL	INTEGRAL COLORED CONCRETE WITH GRANITE TOP CAST	CHARCOAL INTEG
P-08	PAVING TYPE 08 - METAL GRATING (SEE STRUCTURAL)	383 SF		SEE STRUCTURAL	SEE STRUCTURAL	SEE STRUCTURAL	SEE STRUCTURA
P-09A	PAVING TYPE 09A - WOOD FIBER SURFACING (EWF)	1,717 SF	1/L501	ENGINEERED WOOD FIBER, 9" DEPTH WITH SUBSURFACE DRAINGE SYSTEM	SEE SPEC	SEE SPEC	
P-09B	PAVING TYPE 09B - WOOD FIBER SURFACING (EWF)	1,057 SF	2/L501	ENGINEERED WOOD FIBER, 4" DEPTH WITH SUBSURFACE DRAINGE SYSTEM	SEE SPEC	SEE SPEC	
P-10	PAVING TYPE 10 - AGGREGATE SHOULDER (SEE CIVIL)	2,312 SF		SEE CIVIL	SEE CIVIL	SEE CIVIL	SEE CIVIL
P-11	PAVING TYPE 11 - HARDWOOD MULCH PATH	16.56 CY	3/L502	HARDWOOD MULCH	SITE SOURCED OR SUBMIT PRODUCT FOR APPROVAL		NATURAL
P-12	PAVING TYPE 12 - ENGRAVED GRANITE PAVERS	654 SF	4/L500	12" L X 12" W X 2" THICK GRANITE PAVERS, COMPACTED AGGREGATE BASE, COMPACTED SUBCUT	ORIJIN STONE, OR APPROVED EQUAL		MESABI BLACK, SA SLIP-RESISTANCE INTERPRETIVE MA
	PLAY EQUIPMENT						
CODE	DESCRIPTION	QTY	DETAIL	MATERIAL PROFILE/ASSEMBLY	MANUFACTURER	PRODUCT/MODEL	COLOR/FINISH
PE-01	PLAY EQUIPMENT TYPE 01 - LOG STACK	1	1/L585	LOG STACK ANCHORED IN PLACE OVER CONCRETE FOOTINGS	CUSTOM, ROBINIA	CUSTOM	
PE-02	PLAY EQUIPMENT TYPE 02 - PLAY MOUND	278 SF	2/L586	ARTIFICIAL TURF OVER CUSION BASEMAT LAYER OVER SHOTCRETE BASE WITH TUNNEL	CUSTOM, XGRASS	CUSTOM	XGRASS ULTRA
PE-03A	PLAY EQUIPMENT TYPE 03A - PRECAST CONCRETE ACORN TOP	1	1/L587	PRECAST CONCRETE ACORNS OVER AGGREGATE BASE	ARTSTONE, WAUSAU TILE, OR APPROVED EQUAL	CUSTOM	ACID WASHED FIN GRAY, SUBMIT CO APPROVAL. APPL APPROVED EQUA
PE-03B	PLAY EQUIPMENT TYPE 03B - PRECAST CONCRETE ACORN NUT	1	1/L587	PRECAST CONCRETE ACORNS OVER AGGREGATE BASE	ARTSTONE, WAUSAU TILE, OR APPROVED EQUAL	CUSTOM	ACID WASHED FIN GRAY, SUBMIT CO APPROVAL. APPL APPROVED EQUA
	PLAY EQUIPMENT TYPE 03C - PRECAST CONCRETE ACORN	1	1/L587	PRECAST CONCRETE ACORNS OVER AGGREGATE BASE	ARTSTONE, WAUSAU TILE, OR APPROVED EQUAL	CUSTOM	ACID WASHED FIN GRAY, SUBMIT CO APPROVAL. APPL APPROVED EQUA
PE-03C							
PE-03C	ROCK						
	ROCK DESCRIPTION	QTY	DETAIL	MATERIAL PROFILE/ASSEMBLY	COMMENTS	MANUFACTURER	PRODUCT

					PROJECT MANAGER	ANDREW F. JUDD		
	FJS		03/28/2023	100% DESIGN			I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.	325 BLAKE RD REGIONAL STORMWA AND GREENWAY
			09/14/2022	90% DESIGN				MINNEHAHA CREEK WATERSHED DISTRICT
TY OT	DF / DAMON FARBER LANDSCAPE ARCHITECTS	A	06/13/2022	PFA GRANT PACKAGE				325 BLAKE RD HOPKINS, MN 55343
MINNEHAHA CREEK WATERSHED DISTRICT	401 North 2nd Avenue, Suite 410 Minneapolis, MN 55401 p: 612.332.7522		DATE	DESCRIPTION	PROJECT NUMBER	10268112	THOMAS J WHITLOCK, PLA DATE XX/XX/XXXX LICENSE # 26292	

	4	5	6	7	8
	MANUFACTURER SEE CIVIL	PRODUCT/MODEL SEE CIVIL	COLOR/FINISH SEE CIVIL	COMMENTS SEE CIVIL	SPEC # SEE CIVIL
ER PERMEABLE	ENDICOTT	2-1/4" X 4" X 8" PERMEABLE	MANGANESE IRONSPOT	SEE CIVIL	32 1443
	SEE CIVIL	SEE CIVIL	GRAY, MEDIUM BROOM FINISH	REFER TO LA DETAIL FOR TYP JOINTING, SEE CIVIL FOR DEPTH / BASE MATERIALS	
GATE WITH FINES, 4" VO LIFTS, SET OVER TE BASE, OVER	REGIONALLY SOURCED, PROVIDE SUBMITTAL	LIMESTONE TRAIL MIX - 3/8" MINUS	NATURAL		32 1540
	SEE CIVIL	SEE CIVIL	SEE CIVIL	SEE CIVIL	SEE CIVIL
	"BIESANZ, VETTER, KASOTA, OR APPROVED EQUAL "		NATURAL CLEFT		32 3224, 32 1400
AL COLORED H SEEDED T OVER COMPACTED R COMPACTED	BULACH OR APPROVED EQUAL	INTEGRAL COLORED CONCRETE WITH GRANITE TOP CAST	CHARCOAL INTEGRAL COLOR WITH BLACK GRANITE SEEDED AGGREGATE	MOCKUP REQ.	32 1316
	SEE STRUCTURAL	SEE STRUCTURAL	SEE STRUCTURAL	SEE STRUCTURAL	SEE STRUCTURAL
SYSTEM	SEE SPEC	SEE SPEC			32 1816
BER, 4" DEPTH WITH SYSTEM	SEE SPEC	SEE SPEC			32 1816
	SEE CIVIL SITE SOURCED OR SUBMIT PRODUCT FOR APPROVAL	SEE CIVIL	SEE CIVIL NATURAL	SEE CIVIL	SEE CIVIL 32 9300
GRANITE PAVERS,	ORIJIN STONE, OR APPROVED EQUAL		MESABI BLACK, SANDBLAST FINISH FOR SLIP-RESISTANCE, WITH ETCHED INTERPRETIVE MAP	MOCKUP REQ. BASE BID: ENGRAVED GRANITE PAVERS, DEDUCT ALTERNATE: DECORATIVE CONCRETE WITH WATERSHED GRAPHIC SANDBLASTED FINISH	32 1400
EMBLY	MANUFACTURER	PRODUCT/MODEL	COLOR/FINISH	COMMENTS	SPEC #
IN PLACE OVER	CUSTOM, ROBINIA	CUSTOM			11 6815
CUSION BASEMAT E BASE WITH TUNNEL	CUSTOM, XGRASS	CUSTOM	XGRASS ULTRA		32 1813, 03 3713
	ARTSTONE, WAUSAU TILE, OR APPROVED EQUAL	CUSTOM	ACID WASHED FINISH, INTEGRAL COLOR - GRAY, SUBMIT COLOR SAMPLES FOR APPROVAL. APPLY ACL `HIDROLIT` OR APPROVED EQUAL COATING	MOCKUP REQ.	03 4500
	ARTSTONE, WAUSAU TILE, OR APPROVED EQUAL	CUSTOM	ACID WASHED FINISH, INTEGRAL COLOR - GRAY, SUBMIT COLOR SAMPLES FOR APPROVAL. APPLY ACL `HIDROLIT` OR APPROVED EQUAL COATING	MOCKUP REQ.	03 4500
	ARTSTONE, WAUSAU TILE, OR APPROVED EQUAL	CUSTOM	ACID WASHED FINISH, INTEGRAL COLOR - GRAY, SUBMIT COLOR SAMPLES FOR APPROVAL. APPLY ACL `HIDROLIT` OR APPROVED EQUAL COATING	MOCKUP REQ.	03 4500
EMBLY	COMMENTS	MANUFACTURER	PRODUCT	COLOR/FINISH	SPEC #
ING, 12""-48"" SIZES,	COMMENTS	"BIESANZ, VETTER, KASOTA, OR APPROVED	FRODUCT		SFEC#
E BASE, OVER	VARIED SIZES	EQUAL	LIMESTONE	SPLIT FACES, LIMESTONE TYPE TO MATCH OTHER STONE ELEMENTS	32 3224
JECT MANAGER ANDREW F	F. JUDD I HEREBY CERTIFY THAT THIS PLAN, SPECIF REPORT WAS PREPARED BY OR UNDER M			SITE MATERIALS SCI	



FILENAME SCALE N/A

TERIALS SCHEDULE (CONT'D)								
NTITIES DEPICTED BELOW ARE ESTIMATES AND REQUIRE CONTRACT	TOR VERIFICA	TION						
SITE FURNITURE								
DE DESCRIPTION	QTY	DETAIL	MATERIAL PROFILE/ASSEMBLY	MANUFACTURER	PRODUCT/MODEL	COLOR/FINISH	COMMENTS	SPEC #
-01A SITE FURNITURE TYPE 01A - CANTILEVER BENCH	2	3/L560	2` X 6` LINEAR BENCH ATTACHED TO GUARDRAIL POST WITH CUSTOM MOUNTING BRACKET	LANDSCAPE FORMS MODIFIED STANDARD	LINK, BACKLESS	WOOD SLATS SEATING, GALV STEEL FRAME	WALL TOP MOUNT	32 3300
-01B SITE FURNITURE TYPE 01B - BACKED BENCH	1	1/L560	2` X 6` LINEAR BENCH SURFACE MOUNTED TO CONCRETE WALK	LANDSCAPE FORMS	LINK, BACKED	WOOD SLATS SEATING, GALV STEEL FRAME	SURFACE MOUNT	32 3300
-02 SITE FURNITURE TYPE 02 - HAMMOCK POLE	4	1/L562	10" DIA. 5`-6` HEIGHT WOODEN POST, EMBEDDED IN WASHED AGGREGATE	SALVAGE FROM SITE				06 1000
-03 SITE FURNITURE TYPE 03 - ROLLING BIKE RACK	3	4/L562	BIKE RACK EMBEDDED IN CIP CONCRETE FOOTING	DERO	ROLLING RACK	GALVANIZED STEEL		32 3300
-04 SITE FURNITURE TYPE 04 - HOOP BIKE RACK	11	5/L562	BIKE RACK EMBEDDED IN CIP CONCRETE FOOTING	DERO	HOOP RACK	GALVANIZED STEEL		32 3300
05 SITE FURNITURE TYPE 05 - TIMBER BENCH	2	2/L560	RECLAIMED TIMBER BENCH OVER COMPACTED AGGREGATE BASE	CUSTOM, SALVAGE FROM SITE				06 1000
-06 SITE FURNITURE TYPE 06 - PICNIC TABLE	2	1/L561	ACCESSIBLE PICNIC TABLE WITH SEATS	COLUMBIA CASCADE COMPANY	2165-6	GALVANIZED STEEL FRAME		32 3300
07 SITE FURNITURE TYPE 07 - WASTE RECEPTACLE	3	2/L562	STEEL WASTE RECEPTACLE	DUMOR	MODEL 157-32 FTO SIDE OPENING RECEPTACLE	HEAVY DUTY STEEL COATED WITH ZINC-RICH EPOXY AND POWDER COATED FINISH, PROVIDE MATERIAL SAMPLES IN SILVER COLOR FAMILY	PROVIDE BLACK 32-GALLON FORMED POLYETHYLENE LINER AND HINGED SIDE DOOR FOR EASY EMPTYING. 14 GA SPUN STEEL COVER. PROVIDE WITH SURFACE MOUNT HOLE.	32 3300
08 SITE FURNITURE TYPE 08 - BACKED BENCH	4	1/L563	6` SURFACE MOUNTED BENCH	COLUMBIA CASCADE	2140 CONTOUR BENCH	WOOD SLATS SEATING, POWDER COATED STEEL FRAME		32 3300
-09A SITE FURNITURE TYPE 09A - LIMESTONE BLOCK ON AGGREGATE S	SPLIT 12	1/L564	LIMESTONE BLOCK SET OVER COMPACTED AGGREGATE BASE	BIESANZ, VETTER, KASOTA, OR APPROVED EQUAL	6` X 2` X 2` LIMESTONE	LIMESTONE TYPE TO MATCH OTHER STONE ELEMENTS		32 3224
-09B SITE FURNITURE TYPE 09B - LIMESTONE BLOCK ON PAVEMENT SP FACE	LIT 2	/	LIMESTONE BLOCK SET ON GRADE	BIESANZ, VETTER, KASOTA, OR APPROVED EQUAL	6` X 2` X 18" LIMESTONE	LIMESTONE TYPE TO MATCH OTHER STONE ELEMENTS		32 3224
-09C SITE FURNITURE TYPE 09C - LIMESTONE BLOCK ON AGGREGATE SAWN FACE	6	3/L560	LIMESTONE BLOCK SET OVER COMPACTED AGGREGATE BASE	BIESANZ, VETTER, KASOTA, OR APPROVED EQUAL	6` X 2` X 2` LIMESTONE	LIMESTONE TYPE TO MATCH OTHER STONE ELEMENTS		32 3224
-10 SITE FURNITURE TYPE 10 - SWING BENCH	2	2/L563	72" AUSTIN BACKED SWING BENCH WITH WOOD SLATS AND ARMRESTS	LANDSCAPE FORMS	AU9991C-CUS	WOOD SEATING, END ARMS		32 3300
11 SITE FURNITURE TYPE 11 - BIKE FIX-IT STATION	1	1/L565	FIX IT STATION WITH AIR KIT 2, SURFACE MOUNT TO CONC FOOTING	DERO	FIX IT + AIR KIT	STAINLESS STEEL SATIN FINISH		32 3300
-12 SITE FURNITURE TYPE 12 - DRINKING FOUNTAIN	1	2/L565	DRINKING FOUNTAIN SET OVER CONCRETE SONOTUBE FOOTING, WITH INTERNAL SURFACE MOUNT AND JUG FILLER OPTION.	MOST DEPENDABLE FOUNTAIN	440 SMFA	STAINLESS STEEL		32 3300
SIGNAGE								
DE DESCRIPTION	QTY	DETAIL	MATERIAL PROFILE/ASSEMBLY	MANUFACTURER	PRODUCT/MODEL	COLOR/FINISH	COMMENTS	SPEC #
01 SIGN TYPE 01 - DIRECTIONAL	3	1/L572	1/2" THK GALV STEEL PLATE SIGN ANCHORED TO SONOTUBE FOOTING OVER COMPACTED AGGREGATE BASE OVER COMPACTED	CUSTOM	GALV STEEL	GALV STEEL	SUBMIT SHOP DRAWINGS, INCLUDING ENGINEERED DRAWINGS FOR FOOTING DESIGN	10 1423, 05-5001
-02A SIGN TYPE 02A - WAYFINDING KIOSK	1	2/L570	SUBGRADE. ONE SIDED GALVANIZED STEEL FRAME W 3FORM SIGN AND ACRYLIC MAP PANEL, SET ON LIMESTONE BASE, OVER CIP FOOTINGS OVER COMPACTED AGGREGATE BASE, COMPACTED SUBGRADE.	CUSTOM	BIESANZ, VETTER, KASOTA, OR APPROVED EQUAL LIMESTONE BASE, 3FORM 1/2" CHROMA XT CAULDRON CNC ETCH - FACE - PAINTED ETCHING	GALV STEEL	SUBMIT SHOP DRAWINGS, INCLUDING ENGINEERED DRAWINGS FOR FOOTING DESIGN	10 1423
-02B SIGN TYPE 02B - WAYFINDING KIOSK	1	2/L570	TWO SIDED GALVANIZED STEEL FRAME W 3FORM SIGN AND ACRYLIC MAP PANEL, SET ON LIMESTONE BASE, OVER CIP FOOTINGS OVER COMPACTED AGGREGATE BASE, COMPACTED SUBGRADE.	CUSTOM	BIESANZ, VETTER, KASOTA, OR APPROVED EQUAL LIMESTONE BASE, 3FORM 1/2" CHROMA XT CAULDRON CNC ETCH - FACE - PAINTED ETCHING	GALV STEEL	SUBMIT SHOP DRAWINGS, INCLUDING ENGINEERED DRAWINGS FOR FOOTING DESIGN	10 1423
03 SIGN TYPE 03 - STOP SIGN	3	2/L575	TRAIL SIZED STOP SIGN MOUNTED TO STEEL POST SIGN OVER SONOTUBE FOOTING TO FROST 1/2" THK GALV STEEL PLATE SIGN ANCHORED			GALV STEEL		10 1423
04 SIGN TYPE 04 - TRAIL & REGULATION	6	2/L572	TO SONOTUBE FOOTING OVER COMPACTED AGGREGATE BASE OVER COMPACTED SUBGRADE.	CUSTOM	GALV STEEL	GALV STEEL		10 1423
05A SIGNTYPE 05A - INTERPRETIVE SIGN	1	1/L576	GALVANIIZED STEEL PLATE W/ APPLIED GRAPHIC INTERPRETIVE PANEL ATTACHED TO LIMESTONE WALL GALVANIIZED STEEL PLATE W/ APPLIED	CUSTOM	CUSTOM	GALV STEEL		10-1423, 05 5001
-05B SIGN TYPE 05B - INTERPRETIVE SIGN	2	2/L576	GRAPHIC INTERPRETIVE PANEL ATTACHED TO GUARDRAIL	CUSTOM	CUSTOM	GALV STEEL		10-1423, 05 5001
06 SIGN TYPE 06 - THREE RIVERS DIRECTIONAL	1	1/L573	SIGNAGE OVER SONOTUBE FOOTING TO FROST	BY OTHERS	PROVIDE FOOTINGS AS SHOWN IN DETAILS, THREE RIVERS PARK DISTRICT STANDARD SIGN BY OTHERS			03 0005
-07 SIGN TYPE 07 - THREE RIVERS TRAIL KIOSK	1	1/L574	THREE RIVERS PARK DISTRICT TRAIL KIOSK, PROVIDE FOOTINGS, SIGN BY OTHERS	BY OTHERS	PROVIDE FOOTINGS AS SHOWN IN DETAILS, THREE RIVERS PARK DISTRICT STANDARD SIGN BY OTHERS			03 0005
-08 SIGN TYPE 08 - THREE RIVERS SYSTEM KIOSK	1	1/L575	THREE RIVERS PARK DISTRICT SYSTEM KIOSK, PROVIDE FOOTINGS, SIGN BY OTHERS	PV OTHERS	PROVIDE FOOTINGS AS SHOWN IN DETAILS, THREE RIVERS PARK DISTRICT STANDARD			03 0005





401 North 2nd Avenue, Suite 410 Minneapolis, MN 55401 p: 612.332.7522

			PROJECT MANAGER	ANDREW F. JUDD	
					I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR
					 REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED
					PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS
					OF THE STATE OF MINNESOTA.
					-
С	03/28/2023	100% DESIGN			-
В	09/14/2022	90% DESIGN			-
Α	06/13/2022	PFA GRANT PACKAGE			
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10268112	THOMAS J WHITLOCK, PLA
-					DATE XX/XX/XXXX LICENSE #26292

325 BLAKE RD REGIONAL STORMWATER AND GREENWAY

MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343

SITE MATERIALS SCHEDULE

FILENAME

SCALE AS SHOWN

SHEET L012

	1 2			3	4	5	6		7	8
	RIALS SCHEDULE (CONT'D) TIES DEPICTED BELOW ARE ESTIMATES AND REQUIRE CONTRACTOR	R VERIFICAT	ION							
	STAIRS									
CODE	DESCRIPTION	QTY	DETAIL	MATERIAL PROFILE/ASSEMBLY	MANUFACTURER	PRODUCT/MODEL	COLOR/FINISH		COMMENTS	SPEC #
ST-01	STAIR TYPE 01 - STONE STEPPER	18	1/L530	4`L X 1`W X 1` H STONE STEPPER OVER COMPACTED AGGREGATE BASE	BIESANZ, VETTER, KASOTA, OR APPROVED EQUAL	LIMESTONE TREAD UNITS	CUT TOP AND BOTTOM, SPLIT FA LIMESTONE TYPE TO MATCH OTH ELEMENTS			32 3224
	WALL									
CODE	DESCRIPTION	QTY	DETAIL	MATERIAL PROFILE/ASSEMBLY	MANUFACTURER	PRODUCT/MODEL	COLOR/FINISH		COMMENTS	SPEC #
WL-01	WALL TYPE 01 - LIMESTONE SEATWALL @ TRAILHEAD	110 LF	1/L520	2` WIDTH X 1.5` HEIGHT X 4` LENGTH, STRAIGHT SEGMENTS PLACED IN RADIAL LAYOUT PER PLAN, OVER COMPACTED AGGREGATE BASE OVER COMPACTED SUBGRADE	BIESANZ, VETTER, KASOTA, OR APPROVED EQUAL	LIMESTONE BLOCK	SAWN ALL FACES			32 3224
WL-02	WALL TYPE 02 - LIMESTONE SEATWALL @ PLAY AREA	130 LF	2/L520	1.5` HEIGHT X RANDOM WIDTHS & LENGTHS LIMESTONE OUTCROPPINGS OVER AGGREGATE BASE	BIESANZ, VETTER, KASOTA, OR APPROVED EQUAL	LIMESTONE BLOCK	NATURAL TOP AND FACES			32 3224
WL-03	WALL TYPE 03 - LIMESTONE SEATWALL @ PICNIC AREA	50 LF	1/L521	2` WIDTH X 2` HEIGHT X 5` LENGTH LIMESTON CUT ON A RADIUS OVER AGGREGATE BASE OVER COMPACTED SUBGRADE	E BIESANZ, VETTER, KASOTA, OR APPROVED EQUAL	LIMESTONE BLOCK	SAWN ALL FACES			32 3224
WL-04	WALL TYPE 04 - CIP CONCRETE WALL	140 LF	2/L521	1` WIDTH CIP CONCRETE WALL, 3` TALL MAX, OVER COMPACTED AGGREGATE BASE OVER COMPACTED SUBGRADE, WITH INTEGRATED WALL LIGHT	STANDARD CONCRETE	STANDARD CONCRETE	RUBBED FINISH			03 0005
WL-05	WALL TYPE 05 - CIP CONCRETE SEATWALL WITH STONE MASONRY VENEER	90 LF	1/L543	CIP RETAINING WALL WITH LIMESTONE MASONRY AND PRECAST CAP	STANDARD CONCRETE, BIESANZ, VETTER, KASOTA, OR APPROVED EQUAL	STANDARD CONCRETE WITH LIMESTONE BRICK FACING	SAWN ALL FACES LIMESTONE MA PRECAST CAP ACID WASHED FIN LIGHT GRAY, SUBMIT COLOR SAM APPROVAL	IISH, COLOR	MOCKUP REQ.	03 0005, 04 40 00

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	NEHA			
WATE	RSHE	DD	ISTR	SIC.



С	03/28/2023	100% DESIGN
В	09/14/2022	90% DESIGN
Α	06/13/2022	PFA GRANT PACKAGE
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	ANDREW F. JUDD
PROJECT NUMBER	10268112

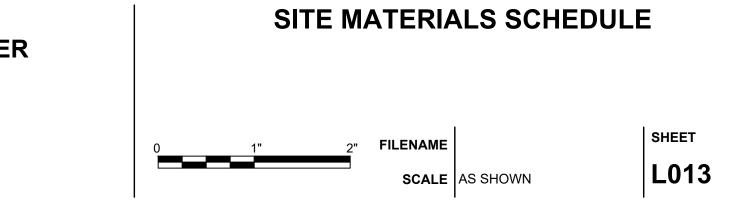
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

THOMAS J WHITLOCK, PLA

325 BLAKE RD REGIONAL STORMWATER AND GREENWAY

MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343

DATE <u>XX/XX/XXXX</u> LICENSE # <u>26292</u>



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PLANT SCHEDU		OTV				CONT				
TREES	CODE	QTY 3	ACER SACCH		SIZE 2" CAL.	CONT. B&B	DETAIL			
مراجع DECIDUOUS TREES	CODE	QTY	BOTANICAL /	COMMON NAME	SIZE	CONT.	DETAIL			
	AAU	5		JM `AUTUMN FLAME` AME RED MAPLE	2.5" CAL.	B&B				
$\langle \rangle$	AH	2	ACER SACCH SILVER MAPI		2" CAL.	B&B				
A CONTRACTOR	BN	8	BETULA NIGE HERITAGE R	RA `CULLY` TM IVER BIRCH	8` HT. MULTI-STEM	B&B				
	CS	3	CATALPA SP NORTHERN (2" CAL.	B&B				
(\cdot)	со	2	CELTIS OCCI COMMON HA		2.5" CAL.	B&B				
	GD	3	GYMNOCLAE KENTUCKY C		3.5" CAL	B&B				
	OV	4	OSTRYA VIR AMERICAN H	GINIANA IOPHORNBEAM	2.5" CAL.	B&B				
	PX	4		ELTOIDES 'SIOUXLAND' DTTONWOOD SIOUXLAND	2" CAL.	B&B				
	PT2	13	POPULUS TR PRAIRIE GOL	REMULOIDES `NE ARB` LD ASPEN	2.5" CAL.	B&B				
$\overline{(\cdot)}$	PW	3	PRUNUS SEF BLACK CHER		2" CAL.	B&B				
	QB	10	QUERCUS BI SWAMP WHI		2.5" CAL.	B&B				
\bigcirc	QS	1		LIPSOIDALIS `MAJESTIC SKIES` KIES NORTHERN PIN OAK	3" CAL.	B&B				
	QM	7	QUERCUS M. BUR OAK	ACROCARPA	2.5" CAL.	B&B				
\bigcirc	QH	1	QUERCUS X HERITAGE EI		2.5" CAL.	B&B				
	UP	1	ULMUS AMER AMERICAN E	RICANA `PRINCETON` ELM	2.5" CAL.	B&B				
A B	US	3		RICANA `ST. CROIX` MERICAN ELM	2.5" CAL.	B&B				
	CODE	QTY	BOTANICAL /	COMMON NAME	SIZE	CONT.	DETAIL			
	AA	9	AMELANCHIE APPLE SERV	ER X GRANDIFLORA ICEBERRY	8` HT. MULTI-STEM	B&B				
< · · · · · · · · · · · · · · · · · · ·	сс	7	CARPINUS C AMERICAN H		8` HT. MULTI-STEM	B&B				
	СА	1	CORNUS ALT PAGODA DO		8` HEIGHT CLUMP	B&B				

PLUTY OF WAR
MINNEHAHA CREEK WATERSHED DISTRICT



С	03/28/2023	100% DESIGN	
В	09/14/2022	90% DESIGN	
Α	06/13/2022	PFA GRANT PACKAGE	
ISSUE	DATE	DESCRIPTION	

	5		6	7			
	-				0175	CONT	
SHRUBS	CODE AM3	QTY 427	BOTANICAL NAME ACHILLEA X 'MOONSHINE'	COMMON NAME MOONSHINE YARROW	SIZE #2	CONT.	DETAIL
	AR	3	AMELANCHIER ALNIFOLIA 'REGENT'	REGENT SERVICEBERRY	#10	CONT.	
	AM4	6	ARONIA MELANOCARPA 'MORTON'	IROQUOIS BEAUTY™ BLACK CHOKEBERRY	#5	CONT.	
	AM	33	ARONIA MELANOCARPA 'MORTON' TM	IROQUOIS BEAUTY BLACK CHOKEBERRY	#5	CONT.	
•	BA2	18	BAPTISIA ALBA	WHITE WILD INDIGO	#1	CONT.	
(+)	BA3	13	BAPTISIA AUSTRALIS	BLUE WILD INDIGO	#1	CONT.	
	CO2	3	CEPHALANTHUS OCCIDENTALIS	BUTTONBUSH	#5	CONT.	
B	CP3	316	COREOPSIS PALMATA	STIFF TICKSEED	#2	CONT.	
•	CO3	15	CORNUS RACEMOSA `MUSZAM`	MUSKINGUM® GRAY DOGWOOD	#2	CONT.	
	CA3	2	CORYLUS AMERICANA	AMERICAN HAZELNUT	#5	CONT.	
	DL2	7	DIERVILLA LONICERA	DWARF BUSH HONEYSUCKLE	#2	CONT.	
\odot	НА	176	HELENIUM AUTUMNALE SALUD YELLOW	SNEEZEWEED	#2	CONT.	
	JO	7	JUNIPERUS VIRGINIANA `GREY OWL`	GREY OWL JUNIPER	#5	CONT.	
	RG	23	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	#5	CONT.	
	RT	25	RHUS TYPHINA	STAGHORN SUMAC	#5	CONT.	
•	RG3	504	RUDBECKIA FULGIDA SULLIVANTII 'GOLDSTURM'	GOLDSTURM CONEFLOWER	#2	CONT.	
	SA2	3	SALIX CANDIDA `JEFBERG` TM	ICEBERG ALLEY SAGELEAF WILLOW	#2	CONT.	
	SE	13	SAMBUCUS CANADENSIS	AMERICAN ELDERBERRY	#5	CONT.	
(+)	SC	21	SILPHIUM PERFOLIATUM	CUP PLANT	#1	CONT.	
(+ 	SS2	305	SOLIDAGO SPECIOSA ' LITTLE MELON"	SHOWY GOLDENROD	#2	CONT.	
	SM	4	SPIRAEA ALBA	MEADOWSWEET	#5	CONT.	
	ST	9	STAPHYLEA TRIFOLIA	AMERICAN BLADDERNUT	#5	CONT.	
+	TD	13	THALICTRUM DIOICUM	EARLY MEADOW RUE	#2	CONT.	
	TT	11	THUJA OCCIDENTALIS 'TECHNY'	TECHNY ARBORVITAE	#15	CONT.	
•	VL	2	VIBURNUM LENTAGO	NANNYBERRY	#5	CONT.	
(\cdot)	VB	6	VIBURNUM TRILOBUM `BAILEY COMPACT`	BAILEY'S COMPACT AMERICAN CRANBERRY BUSH	#5	CONT.	
	ZA2	388	ZIZIA AUREA	GOLDEN ALEXANDER	#2	CONT.	

PROJECT MANAGER ANDREW F. JUDD	
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325 BLAKE RD REGIONAL STORMWAT
AND GREENWAY

MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343

THOMAS J WHITLOCK, PLA

DATE <u>XX/XX/XXXX</u> LICENSE # <u>26292</u>

PROJECT NUMBER 10268112

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ΓER

TREE & SHRUB PLANTING SCHEDULE

FILENAME SCALE N/A SHEET L020

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SHRUB AREAS	CODE	1	BOTANICAL NAME	COMMON NAME	SIZE	CON T.	NOTES	SPACING	REMARKS
		2,953 SF	FORB ENHANCEMENT						PLUG INTO SEEDED AREAS, PLANT IN DRIFTS. EACH DRIFT SHALL CONTAIN 3 INTERMIXED SPECIES. PLANT EACH DRIF IN MINIMUM 50SF MASSES FOR LEGIBILITY
	D2	455	DRIFT 1		PLUG		SPECIES IN DRIFT TO BE DISTRIBUTED EVENLY (EACH SPECIES PLANTED AT 1/3 TOTAL AREA)	33% @ 18" o.c.	DRIFT TYPE 1: LIATRIS PYCHNOSTACHYA ECHINACEA PALLIDA, BAPTISIA ALBA
	D3	455	DRIFT 2		PLUG		SPECIES IN DRIFT TO BE DISTRIBUTED EVENLY (EACH SPECIES PLANTED AT 1/3 TOTAL AREA)	33% @ 18" o.c.	TRADESCANTIA BRACTEATA, VERBENA STRICTA, SYMPHIOTRICHUM LAEVE
	D4	455	DRIFT 3		PLUG		SPECIES IN DRIFT TO BE DISTRIBUTED EVENLY (EACH SPECIES PLANTED AT 1/3 TOTAL AREA)	33% (W 10	(PLANTED AT ELEV 898 AND BELOW) VERBENA HASTATA, LOBELIA SIPHILITICA HELENIUM AUTUMNALE
		4,228 SF	ENTRY FEATURE PLANTING						NATIVE GRASS MASSES W/ INTERSPERSE SEASONAL NATIVE FORB FORMAL PLANTING
	AT	440	ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	1 GAL	CON T		10% @ 12" o.c.	DISTRIBUTE EVENLY THROUGHOUT PLANTING BED, LOCATE BETWEEN SS
	SL	633	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	1 GAL	CON T		90% @ 30" o.c.	
		985 SF	LOW GROWING SHRUB						
	AO	29	ARONIA MELANOCARPA `UCONNAM165` TM	LOW SCAPE MOUND CHOKEBERRY	#2	CON T.		25% @ 36" o.c.	
	DL	16	DIERVILLA LONICERA	DWARF BUSH HONEYSUCKLE	#5	CON T		25% @ 48" o.c.	
	JO	16	JUNIPERUS VIRGINIANA `GREY OWL`	GREY OWL JUNIPER	#5	CON T.		25% @ 48" o.c.	
	RG	16	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	#5	CON T.		25% @ 48" o.c.	
		61 SF	WET MEADOW ENHANCEMENT PLANTINGS						
	CEF	6	CORNUS SERICEA `ARCTIC FIRE`	ARCTIC FIRE RED TWIG DOGWOOD	2 GAL	CON T		50% @ 30" o.c.	MULCH IN MASS
チナンイードアント・チアンショ	IVE	8	IRIS VERSICOLOR	BLUE FLAG	1 GAL	CON T		50% @ 24" o.c.	PLANT INTO SEEDED AREA
		2,651 SF	RAIN GARDEN PLANTING						
	AP	184	ASTER NOVAE-ANGLIAE 'PURPLE DOME'	PURPLE DOME NEW ENGLAND ASTER	1 GAL	CON T		15% @ 18" o.c.	
	CV	207	CAREX VULPINOIDEA	FOX SEDGE	1 GAL	CON T		30% @ 24" o.c.	
	LC	45	LOBELIA CARDINALIS	CARDINAL FLOWER	1 GAL	CON T		10% @ 30" o.c.	
	LB	45	LOBELIA SIPHILITICA 'BIG BLUE'	BIG BLUE GREAT LOBELIA	1 GAL	CON T		10% @ 30" o.c.	
	MDI	69	MONARDA DIDYMA	BEE BALM	1 GAL	CON T		10% @ 24" o.c.	
	RGO	173	RUDBECKIA FULGIDA SULLIVANTII 'GOLDSTURM'	GOLDSTURM CONEFLOWER	1 GAL	CON T		25% @ 24" o.c.	
GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CON T.	NOTES	SPACING	REMARKS
		13,50 2 SF	SEED MIX - WET MEADOW						MNDOT - 34-272 WET MEADOW SOUTH & WEST. SEED AND NATIVE STRAW OR CATEGORY 3 EROSION CONTROL BLANKE ON SLOPES 3:1 AND GREATER.
		13,50 2 SF	-						
		2,787 SF	SEED MIX - WOODLAND EDGE						MNDOT 36-211 WOODLAND EDGE SOUTH WEST. SEED AND NATIVE STRAW OR CATEGORY 3 EROSION CONTROL BLANKE
		2,787 SF	-						

						PROJECT MANAGER	ANDREW F. JUDD
	PHILIP WY						
	C C C C C C C C C C C C C C C C C C C						
	× c		С	03/28/2023	100% DESIGN		
	ALITYOF	D E / DAMON FARBER	В	09/14/2022	90% DESIGN		
		DF / DAMON FARBER LANDSCAPE ARCHITECTS	Α	06/13/2022	PFA GRANT PACKAGE		
Λ	AINNEHAHA CREEK	401 North 2nd Avenue, Suite 410	ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10268112
	WATERSHED DISTRICT	Minneapolis, MN 55401 p: 612.332.7522	•				•
	WATERSTILD DISTRICT						

SHRUB AREAS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CON T.	NOTES	SPACING	REMARKS
		19,46 8 SF	SEED MIX - MESIC PRAIRIE						BWSR PILOT MIXES: "LITTLE BLUESTEM URBAN PRAIRIE". PLANT EACH DRIFT IN MINIMUM 50SF MASSES FOR LEGIBILITY. SEED AND NATIVE STRAW OR CATEGORY 3 EROSION CONTROL BLANKET.
		19,46 8 SF	-						
		3,409 SF	SEED MIX & PLUG- MEADOW						SEED & PLUG SEDGE & FESCUE MEADOW
	AC2	170 SF	ALLIUM CERNUUM	NODDING ONION	PLUG				
	AU	273 SF	ANEMONE PATENS	PASQUEFLOWER	PLUG				
	AC	68 SF	AQUILEGIA CANADENSIS	EASTERN COLUMBINE	PLUG				
	AV	170 SF	ASCLEPIAS VERTICILLATA	WHORLED MILKWEED	PLUG				
	СВ	170 SF	CAREX BLANDA	WOODLAND SEDGE	PLUG				
	СР	170 SF	CAREX PENSYLVANICA	PENNSYLVANIA SEDGE	PLUG				
	CS2	170 SF	CAREX SPRENGELII	SPRENGEL'S SEDGE	PLUG				
	TL	3,409 SF	TURF SEED NO MOW FESCUE MIX		SEED				
		596 SF	WOODLAND PERENNIAL MIX						
	AC3	24	AQUILEGIA CANADENSIS	EASTERN COLUMBINE	1 GAL	CON T.		15% @ 24" o.c.	
	CP4	16	CAREX PENSYLVANICA	PENNSYLVANIA SEDGE	1 GAL	CON T.		10% @ 24" o.c.	
	GM	47	GERANIUM MACULATUM	SPOTTED GERANIUM	1 GAL	CON T.		30% @ 24" o.c.	
	MR	24	MAIANTHEMUM RACEMOSUM	FALSE SOLOMON'S SEAL	1 GAL	CON T.		15% @ 24" o.c.	
	MS	47	MATTEUCCIA STRUTHIOPTERIS	OSTRICH FERN	1 GAL	CON T.		30% @ 24" o.c.	
	AL2	56	ARONIA MELANOCARPA 'UCONNAM165'	LOW SCAPE MOUND® BLACK CHOKEBERRY	1 GAL	CON T.		24" o.c.	
	DM	23	DODECATHEON MEADIA	SHOOTING STAR	PLUG	PLUG		18" o.c.	
	IRI VER	42	IRIS VERSICOLOR	BLUE FLAG	PLUG	PLUG		18" o.c.	
	LG	55	LIATRIS PYCNOSTACHYA	GAYFEATHER	1 GAL	CON T.		18" o.c.	
	RG4	339	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	1 GAL	CON T.		24" o.c.	

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

325 BLAKE RD REGIONAL STORMWATER AND GREENWAY

MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343

THOMAS J WHITLOCK, PLA

DATE <u>XX/XX/XXXX</u> LICENSE # <u>26292</u>

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UNDERSTORY PLANTING SCHEDULE

FILENAME SCALE N/A SHEET L021

	1 2			3	4	5	6		7
SOIL F	PROFILE SCHEDULE								
SYMBOL	DESCRIPTION	QTY	DEPTH	COMPOSITION	IRRIGATION	NOTES		SUBGRADE PREPARATION	
SP-01A	SOIL TYPE 01A - NATIVE/TURF SEEDING SOIL SPEC DF-329113	32,243 SF	4"-6"	INSITU/IMPORTED SOILS AMENDED TO MEET REQUIREMENTS OF MNDOT COMMON TOPSOIL BORROW	SPRAY/NONE	EROSION CONTROL BLANKET, HYDROMULCH, C ON SLOPES 3:1 OR STEEPER. WHERE SEEDING RAKE SOIL SURFACE ONLY, DO NOT TILL. IF AF BY CONSTRUCTION, PREPARE SOIL USING AIR	OCCURS BELOW DRIPLINE OF TREE, HAND REA BELOW A DRIPLINE HAS BEEN COMPACTED	SEE SPECIFICATIONS, TILL TO 4"	
SP-01B	SOIL TYPE 01B - AIR SPADE PREP BELOW EXISTING TREES SPEC DF- 329113, 015639	6,060 SF	4"-6", 6"-8"	INSITU SOIL PREPARATION: ADD 1/2" LAYER OF COMPOST & BIOCHAR. LOOSEN SOIL AND INTEGRATE USING AIR SPADE	SRAY/NONE	SOIL PREP & PLANTING BY HAND MEANS ONLY. TO WORK AROUND EXISTING ROOTS. DO NOT S LOOSEN ONLY TOP 4". FOR PLANTING, LOOSEN BALL DEPTH. APPLY MULCH/EROSION CONTRO	SEVER/CUT ROOTS. FOR SEEDING ZONES, SOIL TO DEPTH OF 6"-8" TO RECIEVE ROOT	AIR SPADE ONLY	
ada ada ada ada ada ada	SOIL TYPE 02A - 18" PLANTING SOIL PERENNIAL/SHRUB IMPORT SPEC DF- 329113	424.57 CY	18"	IMORTED SOILS MEETING REQUIREMENTS OF MNDOT LOAM TOPSOIL BORROW	DRIP	3" THICK FINELY SHREDDED HARDWOOD MULC ON 3:1 OR STEEPER	H. INSTALL MULCH OVER JUTE ECB ON SLOPES	SEE SPECIFICAITONS, TILL TO 4"	
SP-02B	SOIL TYPE 02B - 18" PLANTING SOIL (PERENNIAL/SHRUB) AMEND SPEC DF- 329113	6,387 SF	18"	INSITU AMENDED TO MEET REQUIREMENTS OF MNDOT LOAM TOPSOIL BORROW	NONE	3" THICK FINELY SHREDDED HARDWOOD MULC ON 3:1 OR STEEPER	H, INSTALL MULCH OVER JUTE ECB ON SLOPES	SEE SPECIFICATIONS, DEEP TILL	
SP-03	SOIL TYPE 03 - 24" RAIN GARDEN PLANTING SOIL SPEC DF- 329113	175.49 CY	24"	IMPORTED SOILS MEETING REQUIREMENTS OF MNDOT FILTER TOPSOIL BORROW	DRIP/NONE	3" THICK FINELY SHREDDED HARDWOOD MULC ON 3:1 OR STEEPER	H. INSTALL MULCH OVER JUTE ECB ON SLOPES	SEE SPECIFICATIONS,	
SP-04	SOIL TYPE 04 - 36" PLANTING SOIL (TREES) SPEC DF- 329113	373.15 CY	36"	INSITU WITH AMENDED BACKFILL MEETING REQUIREMENTS OF LOAM TOPSOIL BORROW ENHANCED WITH BIOCHAR. FOR TREE PLANTING IN SEEDED AREAS (AMEND PREPARED SOILS WITH ADDITIONAL COMPOST)	DRIP/WATERING BAGS	ON 3:1 OR STEEPER. WHERE TREE PLANTING	H. INSTALL MULCH OVER JUTE ECB ON SLOPES OCCURS WITHIN ROOT ZONE OF EXISTING IUST PLANTING AS NEEDED TO AVOID DAMAGE	SEE SPECIFICATIONS & TREE PLANTING DETAIL	

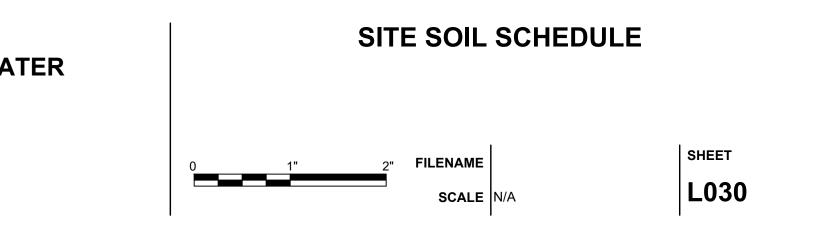
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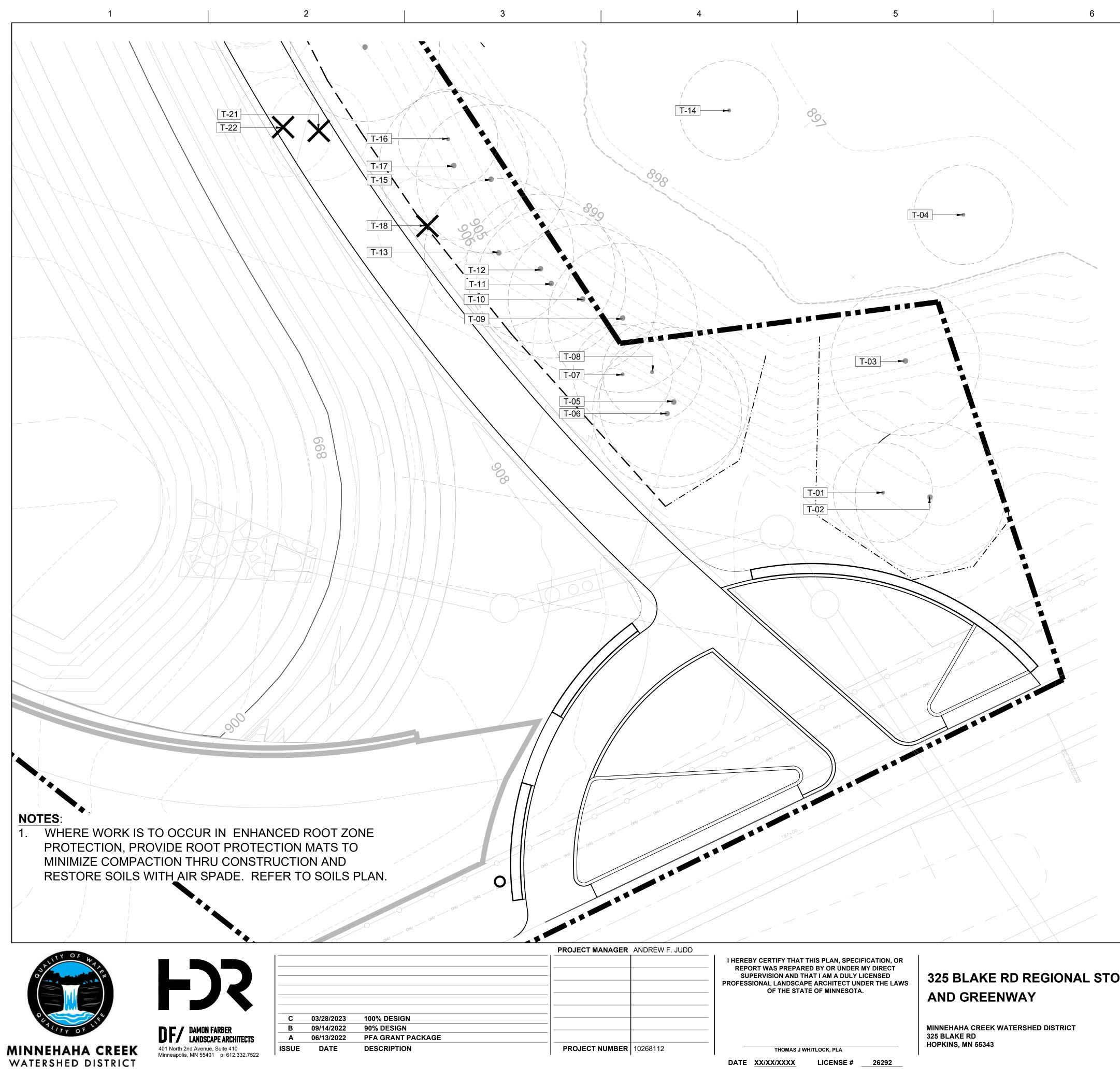


				PROJECT MANAGER	ANDREW F. JUDD		
						I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.	325 BLAKE RD REGIONAL STORMWA AND GREENWAY
	С	03/28/2023	100% DESIGN				
	В	09/14/2022	90% DESIGN				MINNEHAHA CREEK WATERSHED DISTRICT
	Α	06/13/2022	PFA GRANT PACKAGE				325 BLAKE RD
22	ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10268112	THOMAS J WHITLOCK, PLA	HOPKINS, MN 55343
.2						DATE XX/XX/XXXX LICENSE # 26292	

SUBGRADE PREPARATION
SEE SPECIFICATIONS, TILL TO 4"
AIR SPADE ONLY
SEE SPECIFICAITONS, TILL TO 4"
SEE SPECIFICATIONS, DEEP TILL
SEE SPECIFICATIONS,
SEE SPECIFICATIONS & TREE PLANTING DETAIL

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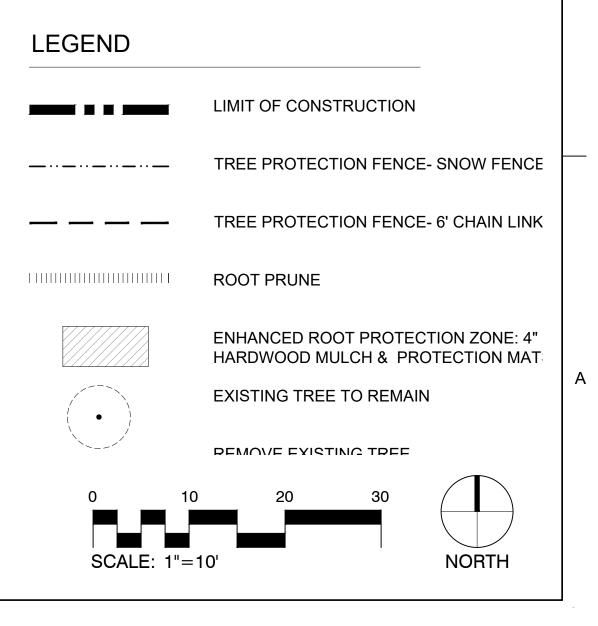


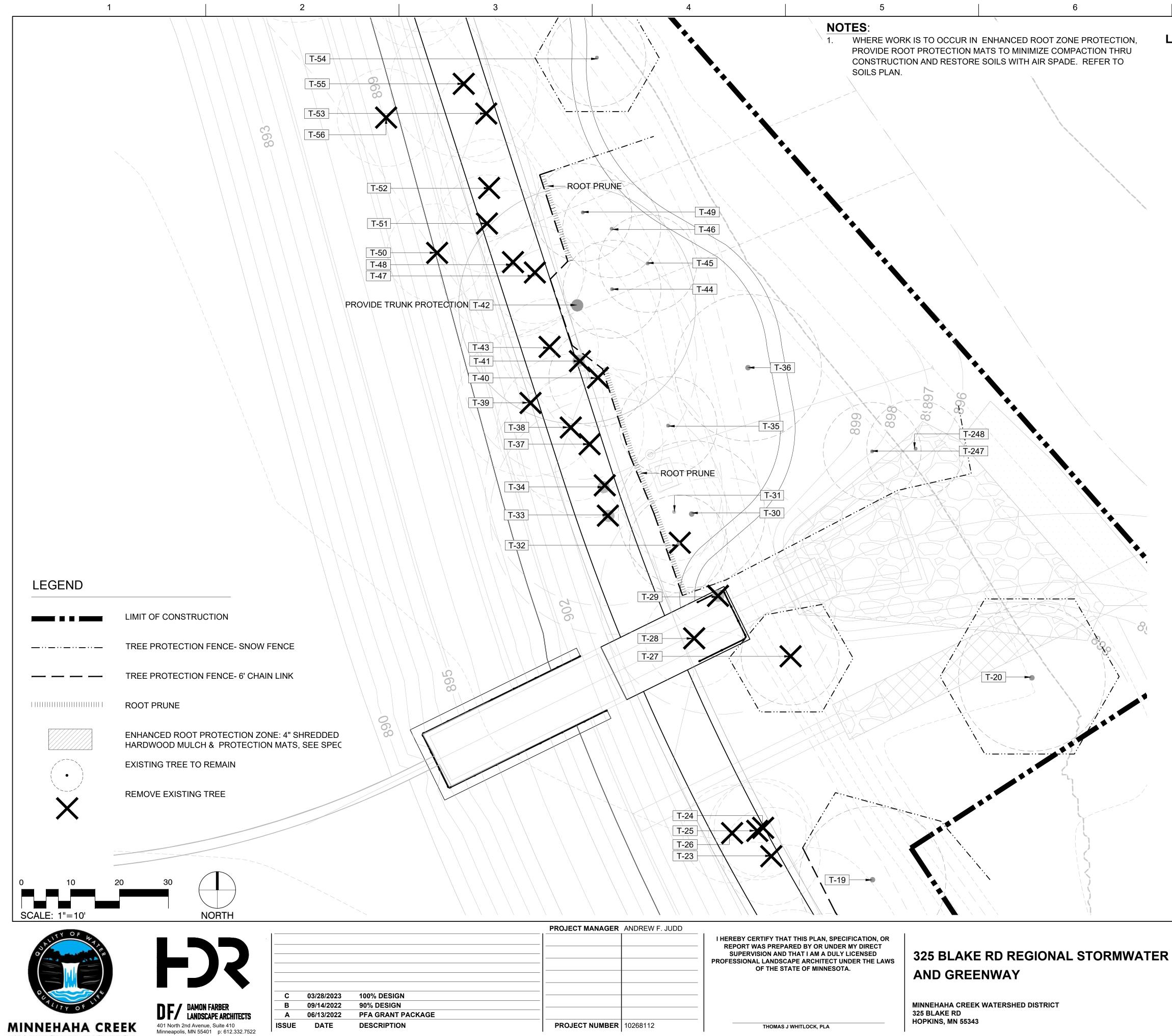
PROJECT MANAGER	ANDREW F. JUDD
PROJECT NUMBER	10268112

TREE PROTECTION PLAN ENLARGEMENT A 325 BLAKE RD REGIONAL STORMWATER SHEET FILENAME L050 SCALE AS SHOWN

LEGEND	TREE PROTE	CTION PLAN ENLAR	GEMENT A	
SYMBOL	TREE PRESERVATION DESCRIPTION	SPECIES	CAL/SIZE	
T-01	PRESERVE	QUERCUS MACROCARPA	4 DBH	
T-02	PRESERVE	FRAXINUS PENNSYLVANICA	10 DBH	
T-03	PRESERVE	ACER NEGUNDO	7 DBH	D
T-04	PRESERVE	ACER NEGUNDO	6 DBH	
T-05	PRESERVE	ACER NEGUNDO	7 DBH	
T-06	PRESERVE	ACER NEGUNDO	10 DBH	
T-07	PRESERVE	ACER NEGUNDO	6 DBH	
T-08	PRESERVE	ACER NEGUNDO	6 DBH	
T-09	PRESERVE	ACER NEGUNDO	18 DBH	
T-10	PRESERVE	ACER NEGUNDO	13 DBH	
T-11	PRESERVE	ACER NEGUNDO	9 DBH	
T-12	PRESERVE	ACER NEGUNDO	11 DBH	
T-13	PRESERVE	ACER NEGUNDO	16 DBH	
T-14	PRESERVE	FRAXINUS PENNSYLVANICA	8 DBH	
T-15	PRESERVE	ACER NEGUNDO	13 DBH	C
T-16	PRESERVE	POPULUS GRANDIDENTATA	9 DBH	
T-17	PRESERVE	ACER NEGUNDO	11 DBH	
T-18	DEMO	POPULUS GRANDIDENTATA	9 DBH	
T-21	DEMO	POPULUS GRANDIDENTATA	4 DBH	
T-22	DEMO	POPULUS GRANDIDENTATA	6 DBH	

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PROJECT MANAGER	ANDREW F. JUDD
PROJECT NUMBER	10268112

DATE XX/XX/XXXX LICENSE # 26292

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LEGEND TREE PROTECTION PLAN ENLARGEMENT B

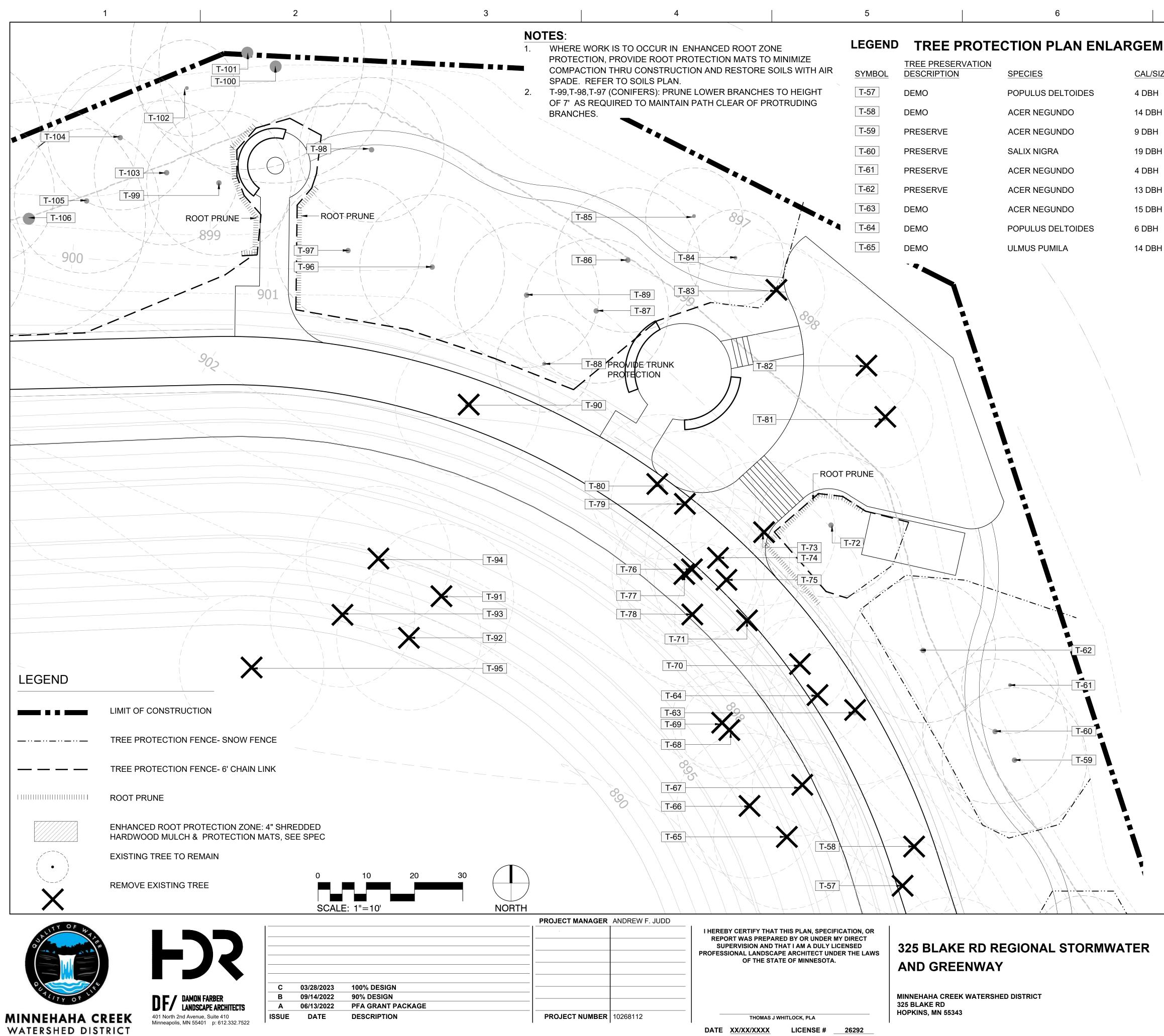
SYMBOL	TREE PRESERVATION	SPECIES	CAL/SIZE
T-19	PRESERVE	ACER NEGUNDO	22 DBH
T-20	PRESERVE	JUGLANS NIGRA	20 DBH
T-23	DEMO	POPULUS GRANDIDENTATA	5 DBH
T-24	DEMO	POPULUS GRANDIDENTATA	5 DBH
T-25	DEMO	POPULUS GRANDIDENTATA	6 DBH
T-26	DEMO	POPULUS GRANDIDENTATA	5 DBH
T-27	DEMO	ACER NEGUNDO	5 DBH
T-28	DEMO	FRAXINUS PENNSYLVANICA	6 DBH
	DEMO	POPULUS DELTOIDES	25 DBH
T-29 T-30	PRESERVE	POPULUS DELTOIDES	19 DBH
T-31	PRESERVE	ACER NEGUNDO	4 DBH
T-32	DEMO - CLEAR ONLY	ACER NEGUNDO	4 DBH
T-33	DEMO - CLEAR ONET	POPULUS DELTOIDES	4 DBH 22 DBH
	DEMO	POPULUS DELTOIDES	22 DBH 22 DBH
T-34 T-35	PRESERVE	ACER NEGUNDO	8 DBH
T-36	PRESERVE	PRUNUS SEROTINA	12 DBH
T-37	DEMO	POPULUS DELTOIDES	13 DBH
T-38	DEMO	POPULUS DELTOIDES	13 DBH
	DEMO	POPULUS DELTOIDES	17 DBH
T-39 T-40	DEMO	ACER NEGUNDO	8 DBH
T-40	DEMO	POPULUS DELTOIDES	25 DBH
T-41	PRESERVE	POPULUS DELTOIDES	38 DBH
T-43	DEMO	ULMUS AMERICANA	8 DBH
T-43	PRESERVE	ACER NEGUNDO	9 DBH
T-44	PRESERVE	ACER NEGUNDO	5 DBH
T-45	PRESERVE	ACER NEGUNDO	9 DBH
	DEMO	ULMUS AMERICANA	8 DBH
T-47	DEMO	ULMUS AMERICANA	о DBH 10 DBH
T-48	PRESERVE	FRAXINUS PENNSYLVANICA	10 DBH
T-50	DEMO	POPULUS GRANDIDENTATA	5 DBH
T-50	DEMO	ULMUS PUMILA	7 DBH
T-51	DEMO	ULMUS AMERICANA	8 DBH
T-52	DEMO	ACER NEGUNDO	7 DBH
T-54	PRESERVE	ACER NEGUNDO	6 DBH
T-54	DEMO	ACER NEGUNDO	13 DBH
T-55	DEMO	FRAXINUS PENNSYLVANICA	5 DBH
T-247	PRESERVE	ACER NEGUNDO	6 DBH
	PRESERVE	FRAXINUS PENNSYLVANICA	о DBH 10 DBH
T-248	FILJERVE		חמע עו

TREE PROTECTION PLAN ENLARGEMENT B

FILENAME SCALE AS SHOWN SHEET L051

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PROJECT MANAGER	ANDREW F. JUDD
PROJECT NUMBER	10268112

DATE XX/XX/XXXX

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RGEMENT	С			
CAL/SIZE	T-66	DEMO	ULMUS PUMILA	17 DBH
4 DBH	T-67	DEMO	FRAXINUS PENNSYLVANICA	6 DBH
4 DBH	T-68	DEMO	ULMUS PUMILA	5 DBH
	T-69	DEMO	POPULUS GRANDIDENTATA	5 DBH
9 DBH	T-70	DEMO	ACER NEGUNDO	7 DBH
19 DBH	T-71	DEMO	ACER NEGUNDO	8 DBH
4 DBH	T-72	PRESERVE	ACER NEGUNDO	13 DBH
13 DBH				

ACER NEGUNDO

ACER NEGUNDO

ACER NEGUNDO

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POPULUS GRANDIDENTATA

POPULUS GRANDIDENTATA

FRAXINUS PENNSYLVANICA

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FRAXINUS PENNSYLVANICA

FRAXINUS PENNSYLVANICA

PRUNUS SEROTINA

ACER NEGUNDO

ACER NEGUNDO

JUGLANS NIGRA

ULMUS PUMILA

ACER NEGUNDO

ACER NEGUNDO

ACER NEGUNDO

ACER NEGUNDO

PICEA PUNGENS

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POPULUS DELTOIDES

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17 DBH

41 DBH

28 DBH

6 DBH

18 DBH

12 DBH

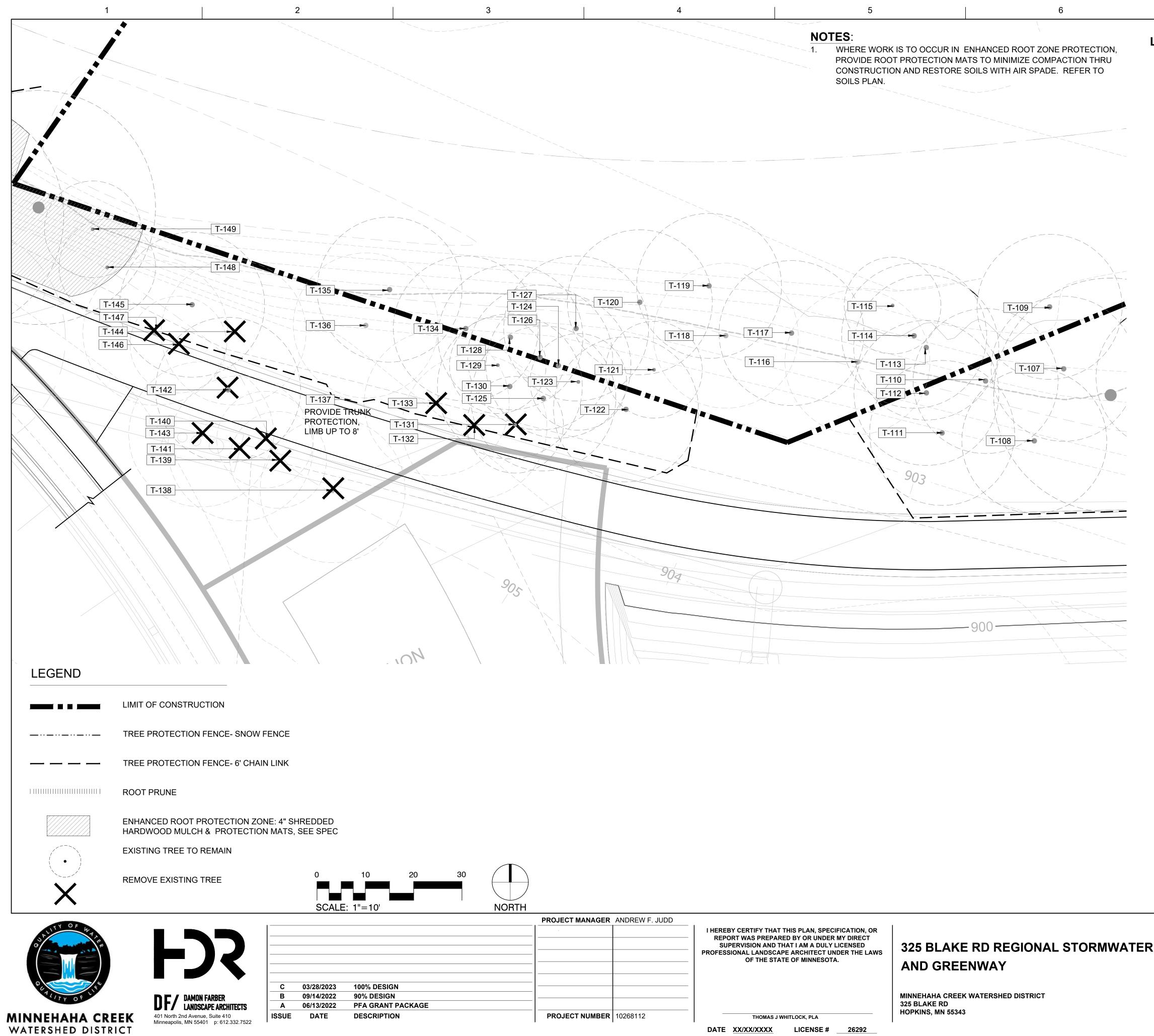
15 DBH

25 DBH

С

TREE PROTECTION PLAN ENLARGEMENT C

FILENAME SCALE AS SHOWN SHEET L052



PROJECT MANAGER ANDREW F. JUDD		
	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.	325 BLAKE RD REGIONAL STORMWAT AND GREENWAY
		MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HODKINS, MN 55242
		HOPKINS, MN 55343

DATE XX/XX/XXXX LICENSE # 26292



FILENAME SCALE AS SHOWN SHEET L053

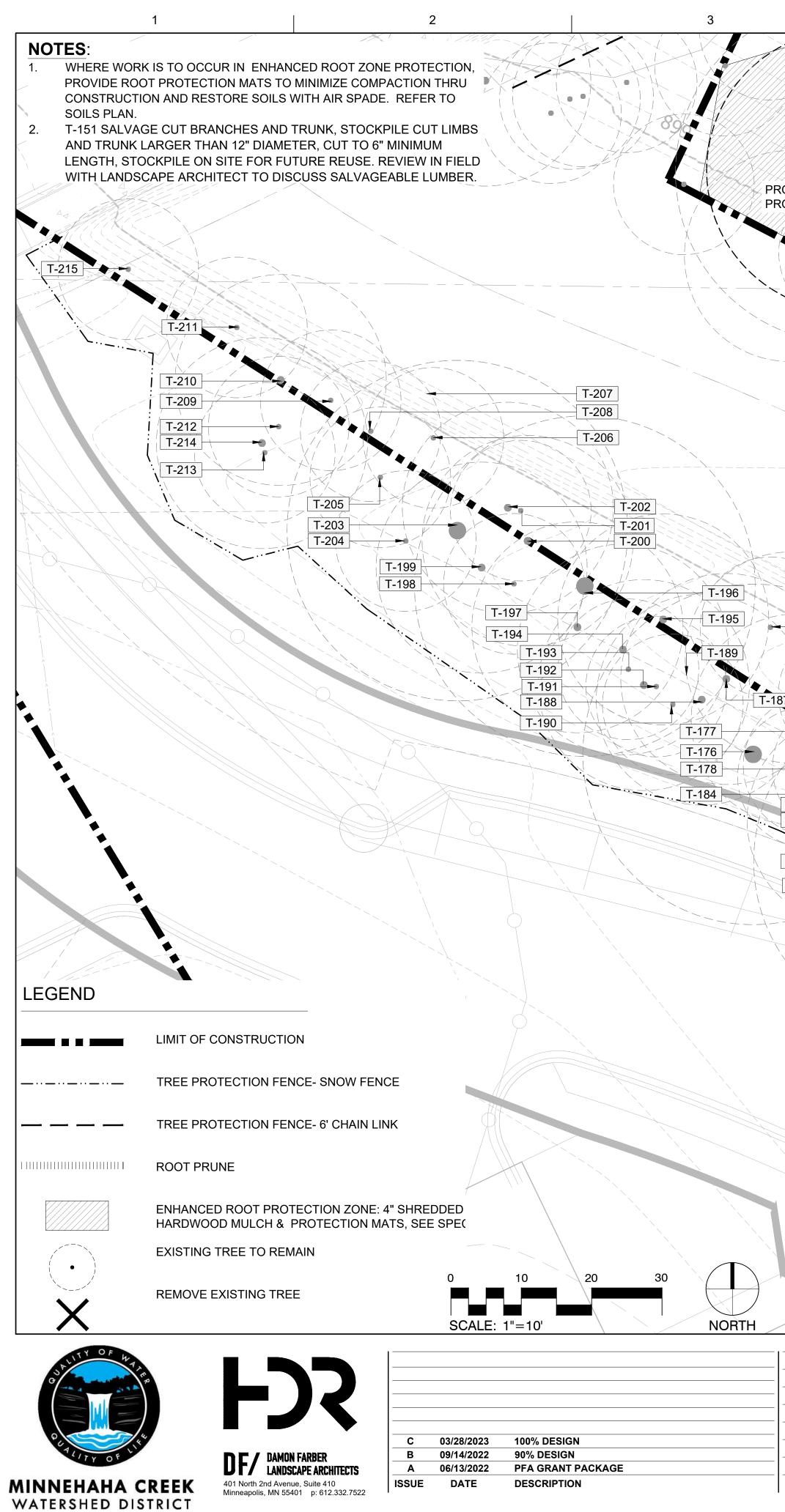
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TREE PROTECTION PLAN ENLARGEMENT D

LEGEND	TREE PROTEC	TION PLAN ENLAR	GEMENT D	
SYMBOL	TREE PRESERVATION DESCRIPTION	SPECIES	CAL/SIZE	
T-107	PRESERVE	PICEA PUNGENS	16 DBH	
T-108	PRESERVE	JUGLANS NIGRA	8 DBH	
T-109	PRESERVE	ACER NEGUNDO	9 DBH	D
T-110	PRESERVE	PICEA PUNGENS	16 DBH	
T-111	PRESERVE	MORUS ALBA	10 DBH	
T-112	PRESERVE	ACER NEGUNDO	14 DBH	
T-113	PRESERVE	ACER NEGUNDO	9 DBH	
T-114	PRESERVE	PICEA PUNGENS	17 DBH	
T-115	PRESERVE	ACER NEGUNDO	5 DBH	<u> </u>
T-116	PRESERVE	ACER NEGUNDO	13 DBH	
T-117	PRESERVE	PICEA PUNGENS	16 DBH	
T-118	PRESERVE	ACER NEGUNDO	13 DBH	
T-119	PRESERVE	ACER NEGUNDO	14 DBH	
T-120	PRESERVE	ACER NEGUNDO	9 DBH	
T-121	PRESERVE	MORUS ALBA	5 DBH	C
T-122	PRESERVE	MORUS ALBA	17 DBH	
T-123	PRESERVE	MORUS ALBA	4 DBH	
T-124	PRESERVE	MORUS ALBA	7 DBH	
T-125	PRESERVE	ACER NEGUNDO	11 DBH	
T-126	PRESERVE	MORUS ALBA	8 DBH	
T-127	PRESERVE	CELTIS OCCIDENTALIS	8 DBH	
T-128	PRESERVE	CELTIS OCCIDENTALIS	10 DBH	
T-129	PRESERVE	ACER NEGUNDO	5 DBH	
T-130	PRESERVE	ACER NEGUNDO	8 DBH	
T-131	DEMO	ACER NEGUNDO	5 DBH	
T-132	DEMO - CLEAR ONLY	MORUS ALBA	10 DBH	В
T-133	DEMO - CLEAR ONLY	JUNIPERUS VIRGINIANA	16 DBH	
T-134	PRESERVE	FRAXINUS PENNSYLVANICA	11 DBH	
T-135	PRESERVE	ACER NEGUNDO	8 DBH	
T-136	PRESERVE	ACER NEGUNDO	12 DBH	
T-137	PRESERVE	PICEA PUNGENS	16 DBH	
T-138	DEMO	ULMUS AMERICANA	13 DBH	
T-139	DEMO	ACER NEGUNDO	4 DBH	
T-140	DEMO	ACER NEGUNDO	6 DBH	
T-141	DEMO	ACER NEGUNDO	7 DBH	
T-142	DEMO	PICEA PUNGENS	18 DBH	
T-143	DEMO	ACER NEGUNDO	7 DBH	A
T-144	DEMO - CLEAR ONLY	CELTIS OCCIDENTALIS	7 DBH	
T-145	PRESERVE	ACER NEGUNDO	10 DBH	
T-146	DEMO	ACER NEGUNDO	5 DBH	
T-147	PRESERVE	ULMUS AMERICANA	18 DBH	
T-148	PRESERVE	FRAXINUS PENNSYLVANICA	4 DBH	
T-149	PRESERVE	FRAXINUS PENNSYLVANICA	5 DBH	J

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LEGEND TREE PROTECTION PLAN ENLARGEMENT E TREE PRESERVATION SYMBOL DESCRIPTION SPECIES CAL T-150 PRESERVE POPULUS DELTOIDES 22 D T-151 DEMO - SALVAGE QUERCUS MACROCARPA 33 DI **PROVIDE TRUNK** T-152 PRESERVE 27 DE POPULUS DELTOIDES PROTECTION T-153 DEMO TILIA AMERICANA 6 DBI T-154 DEMO 5 DB MORUS ALBA PROVIDE TRUNK T-155 DEMO ULMUS AMERICANA 4 DB PROTECTION T-156 DEMO ULMUS AMERICANA 9 DB T-157 PRESERVE TILIA AMERICANA 6 DB T-158 PRESERVE 25 DE POPULUS DELTOIDES T-159 PRESERVE POPULUS DELTOIDES 21 DE T-160 PRESERVE POPULUS DELTOIDES 13 DE T-161 PRESERVE TILIA AMERICANA 6 DB T-162 PRESERVE ULMUS AMERICANA 6 DB T-163 PRESERVE 20 DE POPULUS DELTOIDES T-164 PRESERVE 5 DB ULMUS AMERICANA T-165 PRESERVE ULMUS AMERICANA 4 DB T-166 PRESERVE ULMUS AMERICANA 9 DB T-167 PRESERVE TILIA AMERICANA 4 DB T-186 T-168 PRESERVE TILIA AMERICANA 4 DBI T-185 T-169 PRESERVE 4 DBI TILIA AMERICANA T-175 T-170 PRESERVE TILIA AMERICANA 9 DBI T-174 T-173 T-171 PRESERVE POPULUS DELTOIDES 15 DI **T-171** T-182 **T-170** T-183 **~ +** T-164 T-180 **T-181** T-162 T-169 T-167 T-159 T-165 T-163 T-166 T-160 T-158 **T-168** T-157 T-155 T-161 T-150 T-152 PROVIDE TRUNK T-154 T-153 PROTECT ROOT PRUNE SALVAGE, SEE NOTE T-151

PROJECT MANAGER ANDREW F. JUDD

PROJECT NUMBER | 10268112

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

325 BLAKE RD REGIONAL STORMWATER **AND GREENWAY**

MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343

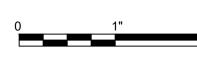
DATE XX/XX/XXXX

THOMAS J WHITLOCK, PLA LICENSE # 26292

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	E			
L/SIZE	T-172	PRESERVE	TILIA AMERICANA	5 DBH
DBH	T-173	PRESERVE	ULMUS AMERICANA	6 DBH
DBH	T-174	PRESERVE	TILIA AMERICANA	6 DBH
DBH	T-175	PRESERVE	TILIA AMERICANA	4 DBH
BH	T-176	PRESERVE	POPULUS DELTOIDES	20 DBH
BH	T-177	PRESERVE	POPULUS DELTOIDES	11 DBH
BH	T-178	PRESERVE	TILIA AMERICANA	4 DBH
BH	T-179	PRESERVE	TILIA AMERICANA	4 DBH
BH	T-180	PRESERVE	POPULUS DELTOIDES	21 DBH
DBH	T-181	PRESERVE	TILIA AMERICANA	7 DBH
DBH	T-182	PRESERVE	TILIA AMERICANA	4 DBH
DBH	T-183	PRESERVE	POPULUS DELTOIDES	16 DBH
BH	T-184	PRESERVE	TILIA AMERICANA	5 DBH
BH	T-185	PRESERVE	SORBUS AUCUPARIA	8 DBH
DBH	T-186	PRESERVE	TILIA AMERICANA	4 DBH
BH	T-187	PRESERVE	POPULUS DELTOIDES	14 DBH
BH	T-188	PRESERVE	POPULUS DELTOIDES	16 DBH
BH	T-189	PRESERVE	TILIA AMERICANA	6 DBH
BH	T-190	PRESERVE	ULMUS AMERICANA	5 DBH
BH	T-191	PRESERVE	ULMUS AMERICANA	4 DBH
BH	T-192	PRESERVE	ULMUS AMERICANA	7 DBH
BH	T-193	PRESERVE	ULMUS AMERICANA	4 DBH
DBH	T-194	PRESERVE	POPULUS DELTOIDES	17 DBH
	T-195	PRESERVE	POPULUS DELTOIDES	11 DBH
	T-196	PRESERVE	POPULUS DELTOIDES	20 DBH
	T-197	PRESERVE	ULMUS AMERICANA	7 DBH
	T-198	PRESERVE	ULMUS AMERICANA	6 DBH
	T-199	PRESERVE	TILIA AMERICANA	7 DBH
	T-200	PRESERVE	POPULUS DELTOIDES	15 DBH
	T-201	PRESERVE	ULMUS AMERICANA	5 DBH
	T-202	PRESERVE	POPULUS DELTOIDES	15 DBH
	T-203	PRESERVE	POPULUS DELTOIDES	32 DBH
	T-204	PRESERVE	FRAXINUS PENNSYLVANICA	4 DBH
\sim	T-205	PRESERVE	TILIA AMERICANA	6 DBH
	T-206	PRESERVE	ULMUS AMERICANA	4 DBH
<u> </u>	T-207	PRESERVE	SALIX NIGRA	24 DBH
X; X;	T-208	PRESERVE	TILIA AMERICANA	4 DBH
	T-209	PRESERVE	TILIA AMERICANA	4 DBH
	T-210	PRESERVE	TILIA AMERICANA	8 DBH
	T-211	PRESERVE	TILIA AMERICANA	4 DBH
\bigvee_{n}	T-212	PRESERVE	TILIA AMERICANA	5 DBH
Ţ	T-213	PRESERVE	TILIA AMERICANA	4 DBH
_	T-214	PRESERVE	TILIA AMERICANA	8 DBH
7	T-215	PRESERVE	FRAXINUS PENNSYLVANICA	4 DBH

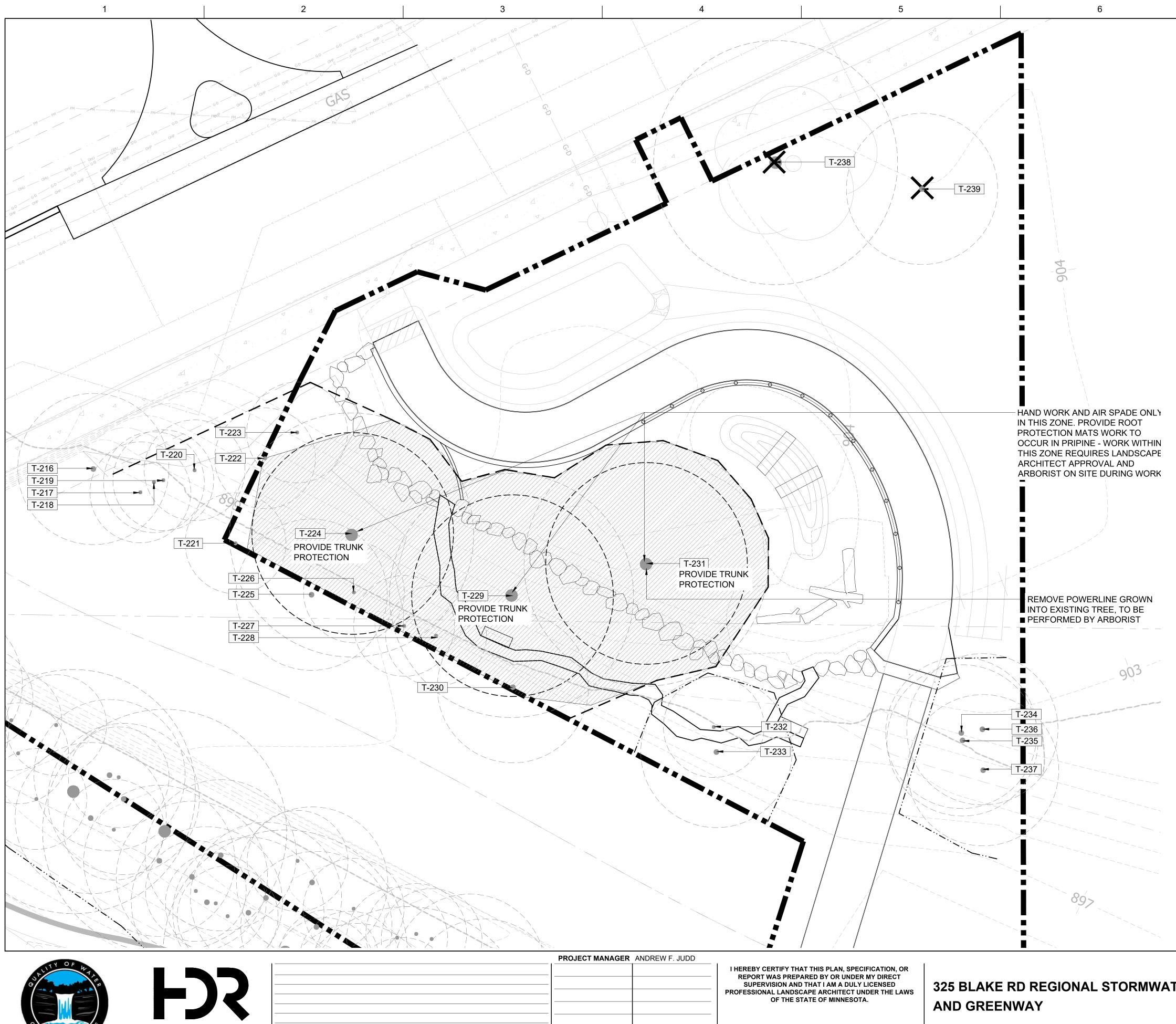
TREE PROTECTION PLAN ENLARGEMENT E



FILENAME SCALE AS SHOWN

SHEET L054

С



MINNEHAH	
WATERSHED	



С	03/28/2023	100% DESIGN
В	09/14/2022	90% DESIGN
Α	06/13/2022	PFA GRANT PACKAGE
ISSUE	DATE	DESCRIPTION

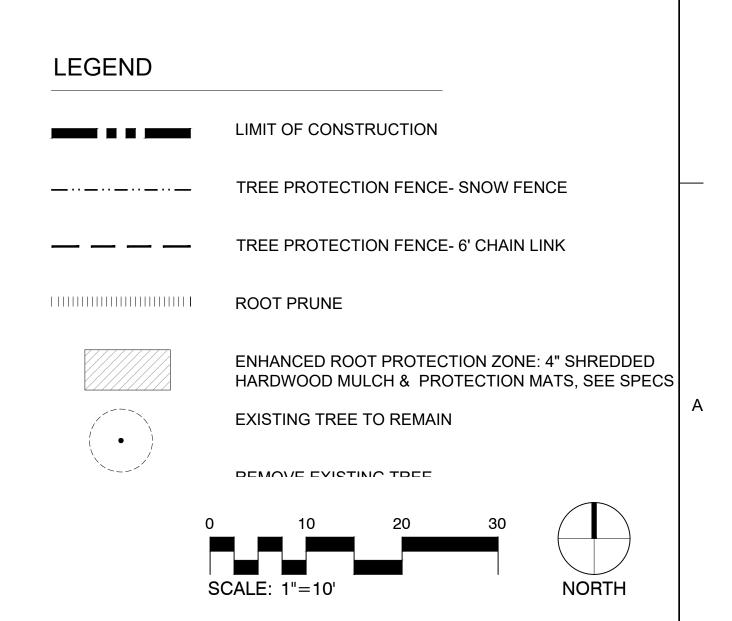
PROJECT MANAGER	ANDREW F. JUDD	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.	325 BLAKE RD REGIONAL STORMWATEI AND GREENWAY
PROJECT NUMBER	10268112	THOMAS J WHITLOCK, PLA	MINNEHAHA CREEK WATERSHED DISTRICT 325 BLAKE RD HOPKINS, MN 55343

THOMAS J WHITLOCK, PLA DATE XX/XX/XXXX LICENSE # 26292

HOPKINS, MN 55343

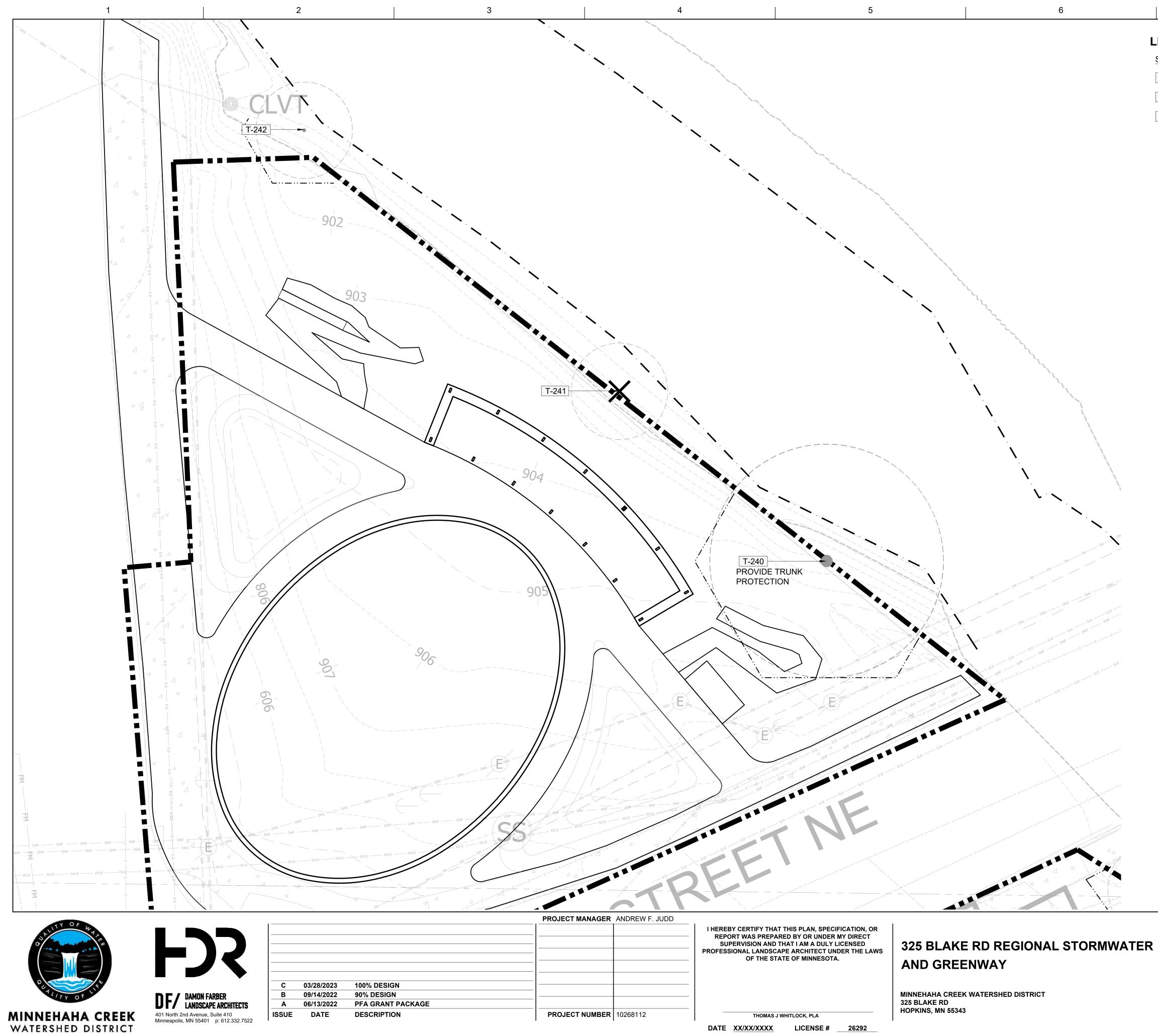
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LEGEND	TREE PROTEC	CTION PLAN ENLAR	GEMENT F	
SYMBOL	TREE PRESERVATION	SPECIES	CAL/SIZE	
T-216	PRESERVE	FRAXINUS PENNSYLVANICA	9 DBH	
T-217	PRESERVE	FRAXINUS PENNSYLVANICA	4 DBH	
T-218	PRESERVE	FRAXINUS PENNSYLVANICA	4 DBH	D
T-219	PRESERVE	FRAXINUS PENNSYLVANICA	5 DBH	
T-220	PRESERVE	FRAXINUS PENNSYLVANICA	6 DBH	
T-221	PRESERVE	ULMUS AMERICANA	5 DBH	
T-222	PRESERVE	MORUS ALBA	5 DBH	
T-223	PRESERVE	MORUS ALBA	5 DBH	
T-224	PRESERVE	MORUS ALBA	5 DBH	
T-225	PRESERVE	QUERCUS MACROCARPA	31 DBH	
T-226	PRESERVE	ACER NEGUNDO	7 DBH	
T-227	PRESERVE	ULMUS AMERICANA	6 DBH	
T-228	PRESERVE	ULMUS AMERICANA	6 DBH	
T-229	PRESERVE	QUERCUS MACROCARPA	33 DBH	
T-230	PRESERVE	ACER NEGUNDO	7 DBH	С
T-231	PRESERVE	QUERCUS MACROCARPA	30 DBH	
T-232	PRESERVE	ULMUS AMERICANA	5 DBH	
T-233	PRESERVE	ULMUS AMERICANA	7 DBH	
T-234	PRESERVE	FRAXINUS PENNSYLVANICA	9 DBH	
T-235	PRESERVE	ULMUS AMERICANA	15 DBH	
T-236	PRESERVE	ULMUS AMERICANA	12 DBH	
T-237	PRESERVE	ACER NEGUNDO	15 DBH	
T-238	DEMO	FRAXINUS PENNSYLVANICA	21 DBH	
T-239	DEMO	BETULA PAPYRIFERA	11 DBH	



В

TREE PROTECTION PLAN ENLARGEMENT F ER SHEET FILENAME L055 SCALE AS SHOWN



PROJECT MANAGER	ANDREW F. JUDD
PROJECT NUMBER	10268112

LEGEND	TREE PR		AN ENLARGEMENT G
SYMBOL	DESCRIPTION	SPECIES	CAL/SIZE
T-240	PRESERVE	POPULUS DELTOIDE	S 30 DBH
T-241	DEMO	ACER NEGUNDO	9 DBH
T-242	PRESERVE	ULMUS AMERICANA	10 DBH

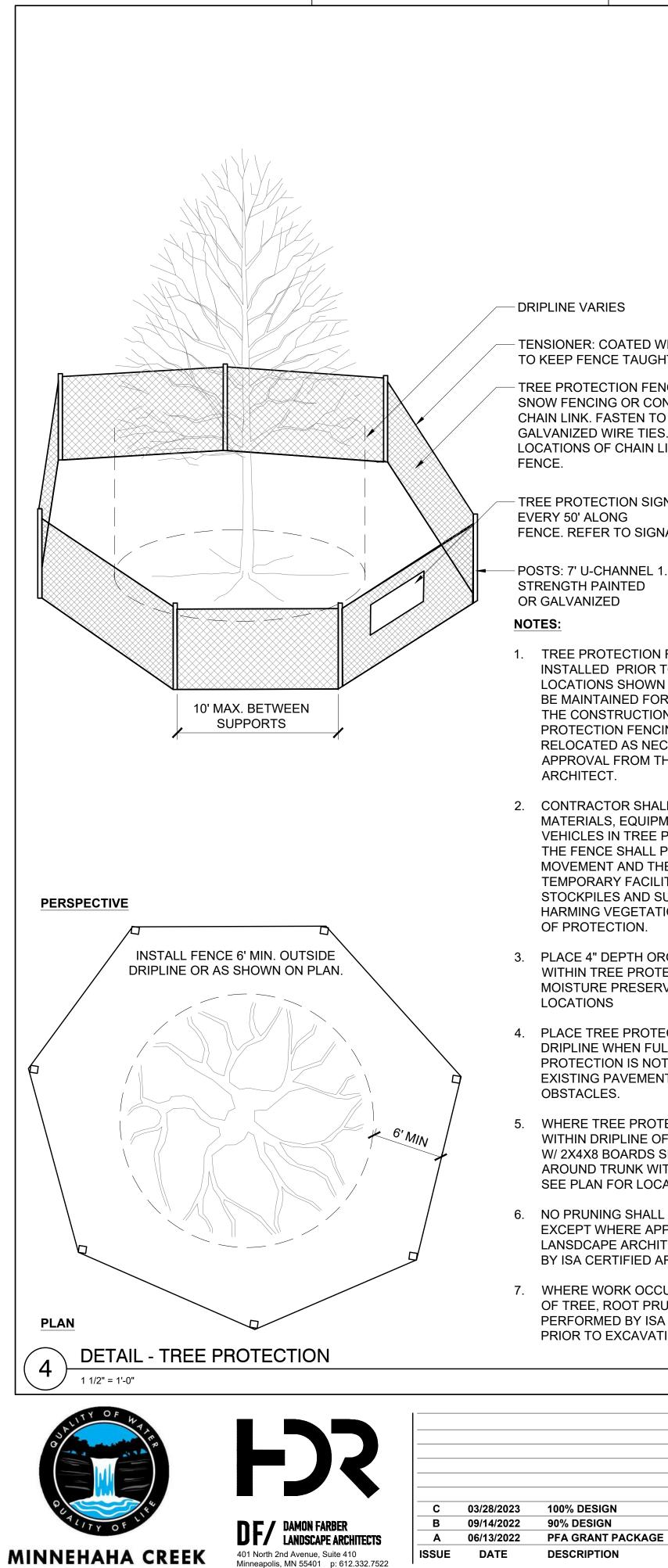
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LEGEND

		1
	LIMIT OF CONSTRUCTION	
	TREE PROTECTION FENCE- SNOW FENCE	
	TREE PROTECTION FENCE- 6' CHAIN LINK	
	ROOT PRUNE	
	ENHANCED ROOT PROTECTION ZONE: 4" SHREDDED HARDWOOD MULCH & PROTECTION MATS, SEE SPEC	
(•)	EXISTING TREE TO REMAIN	A
	REMOVE EXISTING TREE	
0		
SCA	LE: 1"=10' NORTH	
TREE PROTEC	TION PLAN ENLARGEMENT G	1

FILENAME SCALE AS SHOWN

SHEET L056



1

DRIPLINE VARIES

2

- TENSIONER: COATED WIRE OR NYLON ROPE TO KEEP FENCE TAUGHT

TREE PROTECTION FENCING: 48" ORANGE SNOW FENCING OR CONSTRUCTION GRADE CHAIN LINK. FASTEN TO POSTS WITH GALVANIZED WIRE TIES. SEE PLAN FOR LOCATIONS OF CHAIN LINK VS SNOW

TREE PROTECTION SIGNAGE SPACED EVERY 50' ALONG FENCE. REFER TO SIGNAGE DETAIL

POSTS: 7' U-CHANNEL 1.12 LBS/FOOT STRENGTH PAINTED OR GALVANIZED

- TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO DEMOLITION IN LOCATIONS SHOWN ON PLANS AND SHALL BE MAINTAINED FOR THE DURATION OF THE CONSTRUCTION PERIOD.TREE PROTECTION FENCING MAY BE RELOCATED AS NECESSARY WITH APPROVAL FROM THE LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL NOT STORE MATERIALS, EQUIPMENT OR PARK VEHICLES IN TREE PROTECTION ZONES. THE FENCE SHALL PREVENT TRAFFIC MOVEMENT AND THE PLACEMENT OF TEMPORARY FACILITIES, EQUIPMENT, STOCKPILES AND SUPPLIES FROM HARMING VEGETATION WITHIN THE LIMITS OF PROTECTION.
- PLACE 4" DEPTH ORGANIC WOOD MULCH WITHIN TREE PROTECTION FENCING FOR MOISTURE PRESERVATION. SEE PLAN FOR LOCATIONS
- 4. PLACE TREE PROTECTION WITHIN DRIPLINE WHEN FULL DRIPLINE PROTECTION IS NOT FEASIBLE DUE TO EXISTING PAVEMENT OR OTHER OBSTACLES.
- WHERE TREE PROTECTION OCCURS WITHIN DRIPLINE OF TREE, WRAP TRUNK W/ 2X4X8 BOARDS SECURED TIGHTLY AROUND TRUNK WITH STRAP BINDINGS. SEE PLAN FOR LOCATIONS.
- NO PRUNING SHALL BE PERFORMED EXCEPT WHERE APPROVED BY APPROVED LANSDCAPE ARCHITECT AND PERFORMED BY ISA CERTIFIED ARBORIST.
- WHERE WORK OCCURS WITHIN DRIPLINE OF TREE, ROOT PRUNING TO BE PERFORMED BY ISA CERTIFIED ARBORIST PRIOR TO EXCAVATION OR TRENCHING.

P-20.199-45

