

# CITY OF ARDEN HILLS

## CONSTRUCTION PLANS FOR

# 2026 PMP STREET & UTILITY IMPROVEMENTS

**Attachment B**

WATERMAIN, STORM SEWER, UTILITY REHABILITATIONS, LAKE PUMP SYSTEM IMPROVEMENTS, TRAIL REHABILITATION, CONCRETE PEDESTRIAN RAMPS & SPOT CURB & GUTTER REPLACEMENT, STREET PAVEMENT REHABILITATION

FEBRUARY, 2026

**RESOURCE LIST**

**CITY OF ARDEN HILLS**

CITY HALL  
1245 W HIGHWAY 96  
ARDEN HILLS, MN 55112  
651-792-7800

CITY ADMINISTRATOR:  
JESSICA JAGOE

MAYOR:  
DAVID GRANT

CITY COUNCIL MEMBERS:  
EMILY ROUSSEAU  
BRENDA HOLDEN  
TENA MONSON  
KURT WEBER

PUBLIC WORKS DIRECTOR/CITY ENGINEER:  
DAVID SWEARINGEN, P.E.

PUBLIC WORKS SUPERINTENDENT:  
JEFF FRID

**UTILITIES**

**GAS**

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**COMMUNICATIONS**

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**LUMEN (CENTURY LINK)**

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**COMCAST**

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**ZAYO BANDWIDTH**

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**RAMSEY COUNTY PUBLIC WORKS**

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JOSEPH.GROTHJAN@CO.RAMSEY.MN.US

**ELECTRIC**

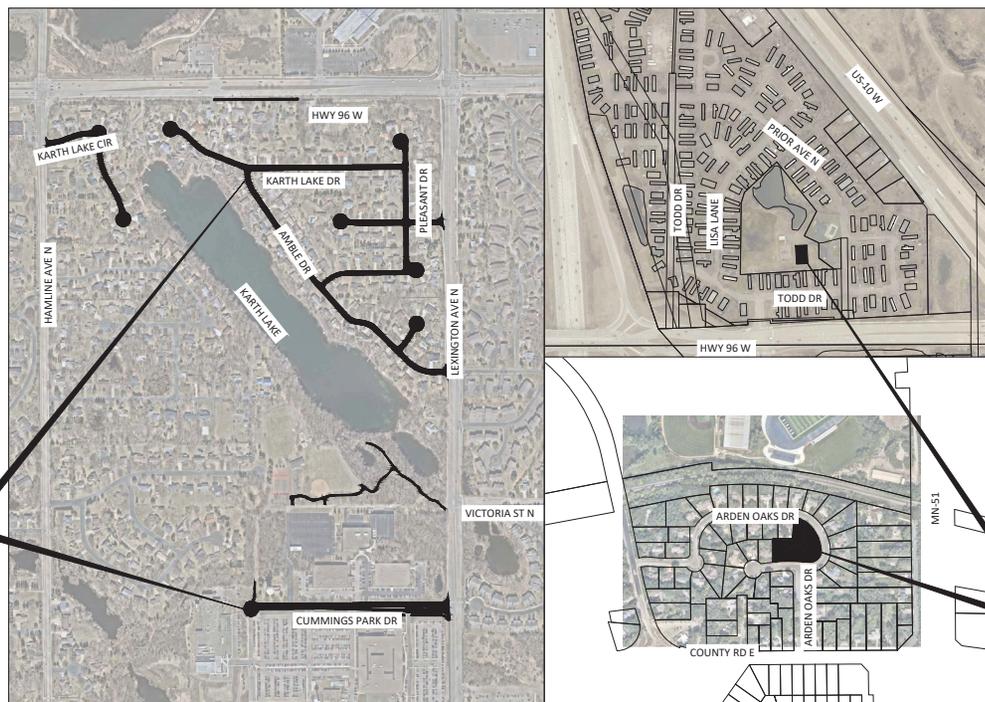
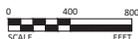
XCEL  
SCOTT TOMFORD  
SCOTT.TOMFORD@XCELENERGY.COM  
762-439-3418

NOTE: EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY GOPHER STATE ONE CALL, 1-800-252-1166 OR 651-454-0002.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL "D". THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-22, ENTITLED "STANDARD GUIDELINES FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES."

**PROJECT LOCATION**

MAP OF THE CITY OF ARDEN HILLS  
RAMSEY COUNTY, MN



**MAP LEGEND**

PROJECT LIMITS

SHEET NUMBER	SHEET TITLE
<b>GENERAL</b>	
G0.01 - G0.03	TITLE SHEET, LEGEND, GENERAL NOTES
G1.01	STATEMENT OF ESTIMATED QUANTITIES
<b>CIVIL</b>	
C0.00 - C0.10	EXISTING CONDITIONS, REMOVALS PLAN
C1.01 - C1.16	TABLES, DETAILS, TYPICAL SECTIONS, PHASING PLAN
C2.01 - C2.13	EROSION CONTROL PLAN, SWPPP
C3.01	GRADING PLAN
C4.00 - C4.09	SANITARY SEWER & WATER PLAN & PROFILE
C5.00 - C5.04	STORM SEWER PLAN & PROFILE
C6.01 - C6.13	STREET PLAN & PROFILE, INTERSECTION DETAILS
C7.01 - C7.07	TRAFFIC CONTROL, SIGNING & STRIPING, SIGNALS
C8.01 - C8.07	CROSS SECTIONS
<b>ELECTRICAL</b>	
E1.01 - E1.04	STORM PUMP STATION ELECTRIC PLANS
E2.01	SIGNAL PLAN
<b>PARKS</b>	
L1.00 - L1.06	ARDEN MANOR PARK BASKETBALL IMPROVEMENTS
L2.00 - L2.05	ARDEN OAKS PARK ADA TRAIL IMPROVEMENTS

THIS PLAN SET CONTAINS 105 SHEETS.

REVIEWED & APPROVED \_\_\_\_\_ PUBLIC WORKS DIRECTOR DATE: \_\_\_\_\_

+ BM=1006.05 TOP NUT HYDRANT NORTH OF INNOVATION WAY & CUMMINGS PARK DR INTERSECTION	PROJECT DATUM: HORIZONTAL: RAMSEY COUNTY COORDINATE SYSTEM (NAD83 (2011 ADJ.)) VERTICAL: NAVD88	RECORD DRAWING INFORMATION DESIGNED: DRAWN: CHECKED: DATE:
	CITY OF ARDEN HILLS, MINNESOTA 2026 PMP STREET & UTILITY IMPROVEMENTS TITLE SHEET	

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

*Bradley J. Fisher*  
 BRADLEY J. FISHER  
 56395  
 DATE: 02/09/2026



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DESIGNED	DRAWN	CHECKED	DATE
JJ/BAP	BAP	BIF	02/09/2026
COUNTY PROJ. NO. PW-26-0100			

SHEET  
**G0.01**

**EXISTING TOPOGRAPHIC SYMBOLS**

	ACCESS GRATE		REGULATION STATION GAS
	AIR CONDITION UNIT		SATELLITE DISH
	ANTENNA		SIGN TRAFFIC
	AUTO SPRINKLER CONNECTION		SIGNAL CONTROL CABINET
	BARRICADE PERMANENT		SOIL BORING
	BASKETBALL POST		SIREN
	BENCH		TELEPHONE BOOTH
	BIRD FEEDER		TILE INLET
	BOLLARD		TILE OUTLET
	BUSH		TILE RISER
	CATCH BASIN RECTANGULAR CASTING		TRANSFORMER-ELECTRIC
	CATCH BASIN CIRCULAR CASTING		TREE-CONIFEROUS
	CURB STOP		TREE-DEAD
	CLEAN OUT		TREE-DECIDUOUS
	CULVERT END		TREE STUMP
	DRINKING FOUNTAIN		TRAFFIC ARM BARRIER
	DOWN SPOUT		TRAFFIC SIGNAL
	ELECTRIC CAR CHARGE STATION		TRASH CAN
	FILL PIPE		UTILITY MARKER
	FIRE HYDRANT		VALVE
	FLAG POLE		VALVE POST INDICATOR
	FLARED END / APRON		VALVE VAULT
	FUEL PUMP		VAULT
	GRILL		VENT PIPE
	GUY WIRE ANCHOR		WATER SPIGOT
	HANDHOLE		WELL
	HANDICAP SPACE		WETLAND DELINEATED MARKER
	IRRIGATION SPRINKLER HEAD		WETLAND
	IRRIGATION VALVE BOX		WET WELL
	LIFT STATION CONTROL PANEL		YARD HYDRANT
	LIFT STATION		
	LIGHT POLE		

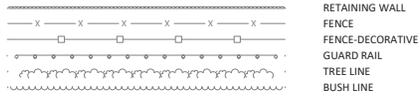
**PROPOSED TOPOGRAPHIC SYMBOLS**

	CLEANOUT
	MANHOLE
	LIFT STATION
	STORM SEWER CIRCULAR CASTING
	STORM SEWER RECTANGULAR CASTING
	STORM SEWER FLARED END / APRON
	STORM SEWER OUTLET STRUCTURE
	STORM SEWER OVERFLOW STRUCTURE
	CURB BOX
	FIRE HYDRANT
	WATER VALVE
	WATER REDUCER
	WATER BEND
	WATER TEE
	WATER CROSS
	WATER SLEEVE
	WATER CAP / PLUG
	RIP RAP
	DRAINAGE FLOW
	TRAFFIC SIGNS

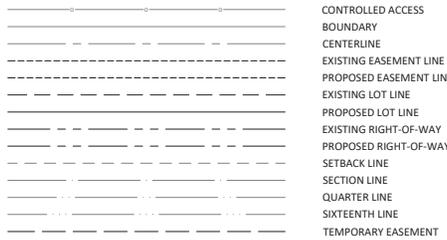
**SURVEY SYMBOLS**

	BENCHMARK LOCATION		CAST IRON MONUMENT
	CONTROL POINT		STONE MONUMENT
	MONUMENT FOUND		

**EXISTING TOPOGRAPHIC LINES**



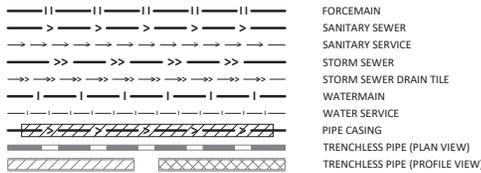
**SURVEY LINES**



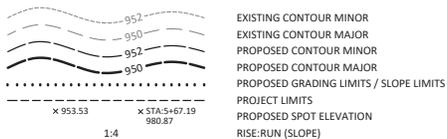
**EXISTING UTILITY LINES**



**PROPOSED UTILITY LINES**



**GRADING INFORMATION**



**HATCH PATTERNS**



**EXISTING PRIVATE UTILITY LINES**

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	UNDERGROUND FIBER OPTIC
	UNDERGROUND ELECTRIC
	UNDERGROUND GAS
	UNDERGROUND COMMUNICATION
	OVERHEAD ELECTRIC
	OVERHEAD COMMUNICATION
	OVERHEAD UTILITY

**UTILITIES IDENTIFIED WITH A QUALITY LEVEL:**

LINE TYPES FOLLOW THE FORMAT: UTILITY TYPE - QUALITY LEVEL  
EXAMPLE: - G - A UNDERGROUND GAS, QUALITY LEVEL A  
UTILITY QUALITY LEVEL (A,B,C,D) DEFINITIONS CAN BE FOUND IN C/ASCE 38-22.

**UTILITY QUALITY LEVELS:**

**QUALITY LEVEL D:** PROVIDES THE MOST BASIC LEVEL OF INFORMATION. IT INVOLVES COLLECTING DATA FROM EXISTING UTILITY RECORDS. RECORDS MAY INCLUDE AS-BUILT DRAWINGS, DISTRIBUTION AND SERVICES MAPS, EXISTING GEOGRAPHIC INFORMATION SYSTEM DATABASES, CONSTRUCTION PLANS, ETC.

**QUALITY LEVEL C:** INVOLVES SURVEYING VISIBLE SUBSURFACE UTILITY STRUCTURES SUCH AS MANHOLES, HAND-HOLES, UTILITY VALVES AND METERS, FIRE HYDRANTS, PEDESTALS AND UTILITY MARKERS, AND THEN CORRELATING THE INFORMATION WITH EXISTING UTILITY RECORDS TO CREATE COMPOSITE DRAWINGS. INCLUDES QUALITY LEVEL D ACTIVITIES.

**QUALITY LEVEL B:** INVOLVES DESIGNATING THE HORIZONTAL POSITION OF SUBSURFACE UTILITIES THROUGH SURFACE DETECTION METHODS AND COLLECTING THE INFORMATION THROUGH A SURVEY METHOD. INCLUDES QUALITY LEVEL C AND D TASKS.

**QUALITY LEVEL A:** PROVIDES THE HIGHEST LEVEL OF ACCURACY. IT INVOLVES LOCATING OR POT-HOLING UTILITIES AS WELL AS ACTIVITIES IN QUALITY LEVELS B, C, AND D. THE LOCATED FACILITY INFORMATION IS SURVEYED AND MAPPED AND THE DATA PROVIDES PRECISE PLAN AND PROFILE INFORMATION.

**ABBREVIATIONS**

A	ALGEBRAIC DIFFERENCE	GRAV	GRAVEL	RSC	RIGID STEEL CONDUIT
ADJ	ADJUST	GU	GUTTER	RT	RIGHT
ALT	ALTERNATE	GV	GATE VALVE	SAN	SANITARY SEWER
B-B	BACK TO BACK	HDPE	HIGH DENSITY POLYETHYLENE	SCH	SCHEDULE
BIT	BITUMINOUS	HH	HANDHOLE	SERV	SERVICE
BLDG	BUILDING	HP	HIGH POINT	SHLD	SHOULDER
BMP	BEST MANAGEMENT PRACTICE	HVL	HIGH WATER LEVEL	STA	STATION
BR	BEGIN RADIUS	HYD	HYDRANT	STD	STANDARD
BV	BUTTERFLY VALVE	I	INVERT	STM	STORM SEWER
CB	CATCH BASIN	K	CURVE COEFFICIENT	TC	TOP OF CURB
C&G	CURB AND GUTTER	L	LENGTH	TE	TEMPORARY EASEMENT
CIP	CAST IRON PIPE	LO	LOWEST OPENING	TEMP	TEMPORARY
CIPP	CURED-IN-PLACE PIPE	LP	LOW POINT	TRH	TOP NUT HYDRANT
CL	CENTER LINE	LT	LEFT	TP	TOP OF PIPE
CLASS	CLASS	MAX	MAXIMUM	TYP	TYPICAL
CLVT	CULVERT	MH	MANHOLE	VCP	VITRIFIED CLAY PIPE
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM	VERT	VERTICAL
C.O.	CHANGE ORDER	MR	MID RADIUS	VPC	VERTICAL POINT OF CURVE
COMM	COMMUNICATION	NIC	NOT IN CONTRACT	VPI	VERTICAL POINT OF INTERSECTION
CON	CONCRETE	NMC	NON-METALLIC CONDUIT	VPT	VERTICAL POINT OF TANGENT
CSP	CORRUGATED STEEL PIPE	NTS	NOT TO SCALE	WM	WATERMAIN
DIA	DIAMETER	NWL	NORMAL WATER LEVEL		
DIP	DUCTILE IRON PIPE	OHW	ORDINARY HIGH WATER LEVEL		
DWY	DRIVEWAY	PC	POINT OF CURVE	AC	ACRES
E	EXTERNAL CURVE DISTANCE	PCC	POINT OF COMPOUND CURVE	CF	CUBIC FEET
ELEC	ELECTRIC	PE	PERMANENT EASEMENT	CV	COMPACTED VOLUME
ELEV	ELEVATION	PED	PEDESTRIAN, PEDESTAL	CY	CUBIC YARD
EOF	EMERGENCY OVERFLOW	PERF	PERFORATED PIPE	EA	EACH
ER	END RADIUS	PERM	PERMANENT	EV	EXCAVATED VOLUME
ESMT	EASEMENT	PI	POINT OF INTERSECTION	LB	POUND
EX	EXISTING	PL	PROPERTY LINE	LF	LINEAR FEET
FES	FLARED END SECTION	PRC	POINT OF REVERSE CURVE	LS	LUMP SUM
F-F	FACE TO FACE	PT	POINT OF TANGENT	LV	LOOSE VOLUME
FF	FINISHED FLOOR	PVC	POLYVINYL CHLORIDE PIPE	SF	SQUARE FEET
F&I	FURNISH AND INSTALL	PVMT	PAVEMENT	SV	STOCKPILE VOLUME
FM	FORCEMAIN	R	RADIUS	SY	SQUARE YARD
FO	FIBER OPTIC	R/W	RIGHT-OF-WAY		
F.O.	FIELD ORDER	RCP	REINFORCED CONCRETE PIPE		
GRAN	GRANULAR	RET	RETAINING		

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

*Bradley J. Fisher*  
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02/09/2026



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DESIGNED	JJ/BAP	DATE	02/09/2026
DRAWN	BAP	BID	
CHECKED	BIF		
COUNTY PROJ. NO.	PW-26-0100		

CITY OF ARDEN HILLS, MINNESOTA  
2026 PMP STREET & UTILITY IMPROVEMENTS

LEGEND

SHEET  
**60.02**

## REMOVAL NOTES

1. PRIOR TO REMOVALS, REQUIRED EROSION CONTROL DEVICES ARE TO BE INSTALLED.
2. REMOVALS MUST NOT OCCUR WITHOUT AUTHORIZATION FROM THE ENGINEER.
3. CONTRACTOR TO COORDINATE WITH ALL PRIVATE UTILITY OWNER TO PROTECT, SUPPORT, HOLD, DEENERGIZE OR OTHERWISE ACCOMMODATE FOR CONSTRUCTION ACTIVITY. THIS WORK IS CONSIDERED INCIDENTAL FOR WHICH NO DIRECT COMPENSATION WILL BE MADE.
4. ALL ADJACENT BITUMINOUS AND CONCRETE SURFACES SHALL BE CLEANLY SAWCUT PRIOR TO REMOVAL.
5. REMOVALS SHALL BE LIMITED TO AREAS WITHIN THE DEFINED PROJECT LIMITS. RESTORATION OF AREAS OUTSIDE OF PROJECT LIMITS SHALL BE COMPLETED AT THE CONTRACTOR'S COST UNLESS OTHERWISE APPROVED.
6. WATER AND SANITARY SERVICE REMOVALS ARE NOT ALWAYS SHOWN IN ITS ENTIRETY. SERVICES WILL BE REMOVED AND REPLACED TO THE RIGHT OF WAY OR EXISTING CURB STOP UNLESS DIRECTED BY ENGINEER. CONTRACTOR IS RESPONSIBLE TO LOCATE THE EXISTING SEWER AND WATER SERVICES. SERVICE PIPE REMOVAL SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OF NEW SERVICE.
7. CONTRACTOR SHALL FOLLOW ALL LOCAL, STATE, AND FEDERAL REGULATIONS IN DISPOSING OF MATERIALS REMOVED FROM THIS SITE.
8. DRIVEWAY REMOVAL LIMITS SHOWN ON THE PLAN ARE APPROXIMATE. REMOVAL LIMITS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
9. ANY TREES, SHRUBS, AND PLANTINGS REMOVED MUST BE DESIGNATED IN ADVANCE BY THE ENGINEER.
10. ALL LIGHT POLES TO BE PROTECTED OR OTHERWISE DIRECTED BY ENGINEER
11. CONTRACTOR SHALL PROTECT ALL ITEMS DESIGNATED FOR SALVAGE AND PROVIDE APPROPRIATE STORAGE UNTIL RE-INSTALLATION. ANY ITEMS DESIGNATED TO BE SALVAGED WHICH ARE DAMAGED SHALL BE REPLACED WITH NEW AT NO COST TO THE OWNER. REPAIR OF DAMAGED ITEMS SHALL NOT BE ALLOWED UNLESS APPROVED BY THE ENGINEER.
12. ANY LANDSCAPING MATERIALS REMOVED MUST BE DESIGNATED IN ADVANCE BY THE ENGINEER AND REMOVAL SHALL BE CONSIDERED INCIDENTAL. LANDSCAPING ITEMS SHALL BE PROTECTED TO EXTENT PRACTICAL DURING CONSTRUCTION.
13. ALL ITEMS NOT IDENTIFIED FOR REMOVAL SHALL BE PROTECTED DURING CONSTRUCTION.
14. REMOVAL OF CASTINGS SHALL BE CONSIDERED INCIDENTAL TO REMOVAL/REPLACEMENT OF STRUCTURES.
15. REMOVAL OF EXISTING SERVICE PIPING IS INCIDENTAL TO THE NEW SERVICE INSTALLATION.
16. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. IT IS NOT GUARANTEED THAT ANY OR ALL EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY THEIR FAILURE TO EXACTLY LOCATE AND PROTECT ANY AND ALL UNDERGROUND UTILITIES.
17. CONTRACTOR SHALL TAKE CARE TO PROTECT ALL GATE VALVES, CASTINGS, ETC. DURING RECLAMATION AND MILLING OPERATIONS.
18. SEE PROJECT MANUAL FOR CONTRACTOR'S REQUIREMENTS TO PROVIDE TEMPORARY WATER SERVICE WITH AFFECTED USERS. TEMPORARY WATER SYSTEM MUST BE INSTALLED AND TESTED PRIOR TO COMMENCEMENT OF WATERMAIN CONSTRUCTION OPERATIONS.

## UTILITY CONSTRUCTION NOTES

1. WATER AND SANITARY SERVICE LOCATIONS SHOWN ARE APPROXIMATE AND ALL SERVICES MAY NOT BE SHOWN.
2. NEW SERVICES SHALL MATCH EXISTING SERVICE SIZE EXCEPT MINIMUM SERVICE SIZE SHALL BE 1-INCH FOR WATER. PROVIDE FITTINGS AND COUPLERS AS REQUIRED TO CONNECT TO EXISTING SERVICES.
3. ROUTING OF NEW SERVICE LINES AROUND TREES AND DRIVEWAYS AS DIRECTED BY ENGINEER MAY BE REQUIRED AND SHALL BE CONSIDERED INCIDENTAL.
4. CONTRACTOR SHALL FIELD VERIFY THE SIZE, LOCATION, AND ELEVATION OF ALL SANITARY SEWER AND WATER SERVICES THAT ARE BEING REPLACED SUCH THAT THEY WILL FUNCTION PROPERLY UPON COMPLETION OF WORK. (INCIDENTAL)
5. MAINTAIN 10" MINIMUM HORIZONTAL SEPARATION OF WATERMAIN WITH SANITARY AND STORM SEWER MAINS, UNLESS OTHERWISE NOTED ON PLANS. WHERE FEASIBLE, MAINTAIN 18" VERTICAL CLEARANCE.
6. ALL CONNECTIONS TO EXISTING UTILITIES (WMIN, SAN, STM, ETC.) SHALL BE FIELD VERIFIED FOR LOCATION AND ELEVATION. (INCIDENTAL)
7. WATER AND SANITARY SERVICE PIPE SHALL BE REMOVED TO SERVICE INSTALLATION LIMITS. REMOVAL OF EXISTING SERVICE PIPES AND CURB STOPS SHALL BE CONSIDERED INCIDENTAL TO NEW SERVICE INSTALLATION.
8. EXISTING WATERMAIN DEPTHS AS SHOWN ARE APPROXIMATE.
9. REPLACE ALL WATER SERVICES WITH NEW MAIN AND CURB BOX WITH NEW 1" TYPE K COPPER WATER SERVICE, UNLESS EXISTING IS GREATER THAN 1", THEN MATCH EXISTING SIZE.
10. A TEMPORARY WATER SERVICE PLAN MUST BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL A MINIMUM OF 48 HOURS PRIOR TO PROPOSED TEMPORARY WATER SYSTEM INSTALLATION.
11. THE CONTRACTOR SHALL COORDINATE WATERMAIN WORK WITH THE FIRE DEPARTMENT AND THE CITY. THE CONTRACTOR WILL BE RESPONSIBLE FOR ARRANGING AND PROVIDING ANY REQUIRED WATERMAIN SHUT OFFS WITH THE CITY DURING CONSTRUCTION. ANY COSTS ASSOCIATED WITH WATERMAIN SHUTDOWNS SHALL BE CONSIDERED INCIDENTAL.
12. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH UTILITY OWNERS TO RELOCATE AND PROTECT PRIVATE UTILITIES AS NECESSARY TO CONSTRUCT STREET AND UTILITIES.
13. REFER TO PROJECT SPECIFICATIONS FOR STRUCTURE CASTING FRAME & COVER REQUIREMENTS.
14. A MINIMUM OF 24 HOURS AND MAXIMUM OF 48 HOURS NOTICE SHALL BE GIVEN TO ALL RESIDENTS AFFECTED BY THE TEMPORARY WATER OUTAGES. A MINIMUM OF 48 HOURS AND MAXIMUM OF 72 HOURS NOTICE SHALL BE GIVEN TO ALL MULTI-FAMILY AND COMMERCIAL PROPERTIES. A MINIMUM OF 1 WEEK NOTICE OF ANY SERVICE INTERRUPTIONS (OF ANY TYPE) SHALL BE GIVEN TO ANY DAYCARE ON SITE.
15. EXISTING VALVES MUST BE OPERATED BY CITY PUBLIC WORKS STAFF ONLY.
16. THE STATIONS & OFFSETS SHOWN ON THE STORM SEWER PLANS ARE TO THE CENTER OF STRUCTURES. WHEN NECESSARY, THE CONTRACTOR SHALL ADJUST THE CENTER OF ALL CATCH BASIN STRUCTURES SO THE COVER OPENINGS MATCH THE PROPOSED CURB & GUTTER.
17. ADJUST FRAME & RING CASTING FOR ALL SANITARY & STORM MANHOLE CASTINGS IN THE PROJECT AREA. THIS WORK SHALL INCLUDE THE REPLACEMENT OF ALL ADJUSTING RINGS.
18. ADDITIONAL CASTING REPLACEMENTS BEYOND THOSE SHOWN ON THE PLANS, IF ANY, WILL BE MARKED IN THE FIELD BY THE ENGINEER. CASTING ADJUSTMENT SHALL BE INCLUDED WITH THE NEW CASTING.
19. INTERNAL EPOXY "PAINTED" CHIMNEY SEALS SHALL BE INSTALLED WITH ALL NEW CASTINGS AND CASTING ADJUSTMENTS (BOTH SANITARY AND STORM).
20. EXTERNAL CHIMNEY SEALS SHALL BE INSTALLED WITH ALL NEW SANITARY CASTINGS AND SANITARY CASTING ADJUSTMENTS.
21. ADJUST ALL VALVE BOXES IN THE PROJECT AREA, IF THEY ARE NOT PROPERLY SET FOR THE PROPOSED PAVEMENT GRADE.
22. VALVE BOX REPLACEMENTS, IF ANY, WILL BE MARKED IN THE FIELD BY THE ENGINEER.

## CONSTRUCTION NOTES

1. SUITABLE GRADING MATERIAL ON THIS PROJECT SHALL CONSIST OF ALL SOILS ENCOUNTERED WITH THE EXCEPTION OF TOPSOIL, DEBRIS, ORGANIC MATERIAL, MUCK AND OTHER MATERIALS AS DETERMINED TO BE UNSUITABLE BY THE ENGINEER.
2. EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF MN/DOT SPEC 2105.
3. SUBGRADE PREPARATION IN ACCORDANCE WITH MN/DOT SPEC 2112 SHALL BE CONSIDERED INCIDENTAL IN AREAS OF FULL RECONSTRUCTION AND ONLY PAID IN RECLAIM AREAS. IN AREAS OF FULL RECONSTRUCTION, SUBGRADE SHALL BE DEFINED AS THE EXISTING GROUND SURFACE LOCATED IMMEDIATELY BENEATH THE PROPOSED AGGREGATE BASE OR SAND SECTION AS SPECIFIED IN THE PLAN.
4. SUBGRADE EXCAVATION AND CORRECTION SHALL BE APPLIED IF NECESSARY TO ACHIEVE SATISFACTORY SURFACE STABILITY AS DETERMINED BY THE ENGINEER. AREAS TO RECEIVE SUBGRADE EXCAVATION SHALL BE SPECIFIED BY THE ENGINEER IN THE FIELD FOLLOWING SUBGRADE PREPARATION AND A ROLL TEST. REPLACEMENT MATERIAL IN AREAS OF SUBGRADE PREPARATION SHALL SATISFY THE REQUIREMENTS OF STABILIZING AGGREGATE AS SPECIFIED IN THE SPECIAL PROVISIONS.
5. WHERE A PROPOSED ROADWAY BEGINS OR TERMINATES AT AN EXISTING ROADWAY, PROVIDE A VERTICAL NOTCH TO THE BOTTOM OF THE AGGREGATE OR BITUMINOUS BASE AND A 20R-1V TAPER.
6. PROVIDE 20R-1V TAPERS BETWEEN LONGITUDINAL CHANGES IN SUB-CUT DEPTHS, UNLESS OTHERWISE SPECIFIED IN THE FIELD BY THE ENGINEER.
7. PROVIDE FOR A SAW-CUT WHERE PLACING NEW PAVEMENT IS INSTALLED ADJACENT TO EXISTING PAVEMENT.
8. CONTRACTOR MUST ALLOW FOR ALL MATERIALS TESTING TO BE ACCOMPLISHED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
9. ALL USES OF THE WORD "INCIDENTAL" IN THESE CONSTRUCTION DOCUMENTS SHALL BE CONSTRUED TO MEAN INCIDENTAL WORK FOR WHICH NO DIRECT COMPENSATION SHALL BE MADE.
10. COORDINATE WITH THE ENGINEER IN THE FIELD FOR LOCATION OF REPLACEMENT TREES.
11. ADDITIONAL SPOT CONCRETE CURB & GUTTER REPLACEMENTS WILL BE MARKED DURING CONSTRUCTION IN THE FIELD BY THE ENGINEER. LIMITS SHOWN ON THE PLANS ARE KNOWN LOCATIONS ONLY AND FINAL LIMITS WILL BE MARKED IN THE FIELD BASED ON FIELD EVALUATIONS.
12. BITUMINOUS BASE PATCHING ADJACENT TO SPOT CURB REPLACEMENT AND SURROUNDING CASTING/VALVE BOX WORK SHALL BE CONSIDERED INCIDENTAL TO THE ASSOCIATED WORK.
13. ADDITIONAL BITUMINOUS PATCHING, IF ANY, WILL BE MARKED IN THE FIELD BY THE ENGINEER AFTER COMPLETION OF PAVEMENT MILLING OPERATIONS.
14. BITUMINOUS PAVEMENT SHALL BE INSTALLED TO MATCH/IMPROVE EXISTING DRAINAGE PATTERNS.
15. PEDESTRIAN RAMPS AND TRAILS SHALL BE CONSTRUCTED TO MEET ALL ADA STANDARDS. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ENGINEER IF ADA STANDARDS CANNOT BE ACHIEVED ON ANY ASPECT OF THE PROJECT. IF CONFIRMED INFESABLE BY THE ENGINEER, AT MINIMUM, THE PEDESTRIAN RAMPS SHALL BE CONSTRUCTED TO MEET ADA STANDARDS FROM THE CURB UP TO THE INITIAL LANDING; THE TRAIL BEYOND THE LANDING WILL THEN BE CONSTRUCTED TO MATCH THE EXISTING CONDITIONS.
16. TRAIL ALIGNMENTS, PROFILES, AND CROSS SECTIONS DISPLAYED FOR EXISTING TRAILS ARE A GUIDE FOR CONSTRUCTION TO SHOW A PROOF OF CONCEPT FOR GRADES. HOWEVER, IT IS NOT EXPECTED THAT THE DESIGN WILL BE FOLLOWED STRICTLY. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO MATCH THE ACTUAL EXISTING TRAIL ALIGNMENTS AND GRADES WHILE MAINTAINING EXISTING DRAINAGE PATTERNS AND TYING IN TO EXISTING GRADES AS QUICKLY AFTER THE EDGE OF TRAIL PAVEMENT ON EACH SIDE AS FEASIBLE, WITH ENGINEER APPROVAL. A 2-FT CLEAR ZONE SHALL BE MAINTAINED WHERE POSSIBLE, BUT IT IS UNDERSTOOD THAT EXISTING GRADES MAY NOT ALLOW FOR SUCH A CLEAR ZONE IN SOME AREAS.

## GENERAL TRAFFIC CONTROL NOTES

1. ADVANCED NOTIFICATION SIGNAGE WITH A SCHEDULED START DATE IS REQUIRED TO BE PLACED AT EACH END OF THE STREET 7 DAYS PRIOR TO THE START OF PAVEMENT RECONSTRUCTION OR ANY SUBSTANTIAL WORK. ONCE THE SIGNAGE IS IN PLACE, THE SCHEDULE MUST BE MAINTAINED FOR THAT STREET/AVENUE BLOCK.
2. PEDESTRIAN ACCESS TO RESIDENCES SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT CONSTRUCTION, UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL ALSO SUPPLY VEHICLE ACCESS TO AND FROM THE SITE FOR CONCURRENT CONSTRUCTION PROJECTS, PRIVATE UTILITY IMPROVEMENTS/RELOCATIONS, AND AS OTHERWISE PROVIDED FOR IN THE SPECIAL PROVISIONS.
3. THE CONTRACTOR SHALL MAINTAIN GARBAGE AND RECYCLING SERVICE ACCESS THROUGHOUT EXECUTION OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ACCESS FOR GARBAGE TRUCKS. WHEN INFEASIBLE TO MAINTAIN SUCH ACCESS, THE CONTRACTOR SHALL COLLECT CONTAINERS, RELOCATE THEM TO A LOCATION WHERE SUITABLE ACCESS CAN BE PROVIDED, AND RETURN CONTAINERS IN GOOD WORKING CONDITION TO THE SAME PROPERTY FROM WHICH THEY WERE TAKEN. ALL CONTAINERS MUST BE LABELED WITH THE HOUSE ADDRESS PRIOR TO MOVING. COSTS FOR PROVIDING ACCESS OR HAULING CONTAINERS TO AN ACCESSIBLE LOCATION SHALL BE INCIDENTAL.
4. THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MN MUTCD) AND INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS. TRAFFIC CONTROL NOT IN COMPLIANCE WITH MN MUTCD WILL BE SUBJECT TO VIOLATION IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
5. THE ITEM "TRAFFIC CONTROL" BID AS "LUMP SUM" SHALL INCLUDE ALL COSTS FOR PROVIDING TEMPORARY CONTROLS SPECIFIED IN THE PLAN AND OTHER TRAFFIC CONTROL REQUIRED PER THE MN MUTCD DUE TO THE CONTRACTOR'S OPERATIONS FOR COMPLETION OF THE PROJECT INCLUDING BUT NOT LIMITED TO: RECLAIMING & PAVING UNDER TRAFFIC, TEMPORARY ROAD CLOSURES IN FULL OR TO THRU TRAFFIC, TEMPORARY LANE CLOSURES, ADJUSTMENTS TO THE TRAFFIC CONTROL PLAN FOR LARGE AND SMALL SCALE STAGING OPERATIONS, AND NECESSARY DETOURS FOR MOTORISTS, BICYCLISTS, AND/OR PEDESTRIANS. THE AMOUNT BID SHALL ALSO INCLUDE SUFFICIENT TRAFFIC CONTROL FOR WARNING OF POTENTIAL HAZARDS DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO FLASHING BARRICADES AROUND EQUIPMENT AND OBSTRUCTIONS.

NOTE: EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY GOPHER STATE ONE-CALL 1-800-252-1166 OR 651-454-0002.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

CITY OF ARDEN HILLS, MINNESOTA  
2026 PMP STREET & UTILITY IMPROVEMENTS

GENERAL CONSTRUCTION NOTES

SHEET

60.03

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

*Bradley L. Fisher*  
BRADLEY L. FISHER  
56355  
02/09/2026



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DESCRIPTION	DATE	REVISIONS	DATE
DESIGNED JJ/BAP		BID	02/09/2026
DRAWN BAP			
CHECKED BIF			
CHECKED BY CHRY HILL, M.D.			
PW-26-0100			

**STATEMENT OF ESTIMATED QUANTITIES**

ITEM NO.	SPEC. REF	DESCRIPTION	NOTES	UNIT	TOTAL ESTIMATED QUANTITY
<b>SCHEDULE "A" - BASE BID</b>					
1	2021.501	MOBILIZATION		LUMP SUM	1.00
2	2101.502	CLEARING		EACH	6.00
3	2101.502	GRUBBING		EACH	6.00
4	2101.505	GRUBBING		ACRE	0.62
5	2104.502	REMOVE METAL APRON		EACH	1.00
6	2104.502	REMOVE CASTING	(1)	EACH	51.00
7	2104.502	REMOVE GATE VALVE & BOX		EACH	12.00
8	2104.502	REMOVE VALVE BOX	(1)	EACH	1.00
9	2104.502	REMOVE HYDRANT		EACH	6.00
10	2104.502	REMOVE DRAINAGE STRUCTURE		EACH	7.00
11	2104.502	REMOVE SIGN		EACH	8.00
12	2104.502	SALVAGE SIGN PANEL		EACH	1.00
13	2104.502	SALVAGE MAILBOX SUPPORT		EACH	5.00
14	2104.503	REMOVE WATERMAIN	(2)	LN FT	142.00
15	2104.503	REMOVE SEWER PIPE (STORM)		LN FT	56.00
16	2104.503	REMOVE CURB & GUTTER	(3)	LN FT	3414.00
17	2104.503	REMOVE RETAINING WALL		LN FT	79.00
18	2104.503	SALVAGE FENCE		LN FT	43.00
19	2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT		SQ YD	60.00
20	2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT		SQ YD	240.00
21	2104.518	REMOVE BITUMINOUS WALK	(P)	SQ FT	23674.00
22	2104.518	REMOVE CONCRETE WALK		SQ FT	420.00
23	2104.602	REMOVE CURB STOP BOX		EACH	1.00
24	2104.603	ABANDON WATERMAIN	(4)	LN FT	650.00
25	2104.618	SALVAGE BRICK PAVERS	(5)	SQ FT	55.00
26	2106.507	EXCAVATION - CHANNEL AND POND	(EV) (P)	CU YD	1900.00
27	2106.507	COMMON EMBANKMENT (POND)	(CV) (P)	CU YD	200.00
28	2106.604	CEMENT STABILIZED SUBGRADE	(5)	SQ YD	6130.00
29	2112.604	SUBGRADE PREPARATION (TRAIL)	(P) (6)	SQ YD	2850.00
30	2123.610	EXPLORATORY EXCAVATION	(5)	HOUR	45.00
31	2215.504	FULL DEPTH RECLAMATION	(P)	SQ YD	30939.00
32	2231.604	REMOVE AND PATCH BITUMINOUS PAVEMENT	(7)	SQ YD	437.00
33	2232.504	MILL BITUMINOUS SURFACE (2.5")	(P)	SQ YD	4373.00
34	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	(8)	SQ YD	293.00
35	2360.504	TYPE SF 9.5 WEARING COURSE MIXTURE (2.B) 3.0" THICK		TON	7623.00
36	2360.509	TYPE SF 9.5 WEARING COURSE MIXTURE (3,C)		TON	7623.00
37	2501.502	12" HDPE PIPE APRON	(9)	EACH	2.00
38	2501.502	36" RC PIPE APRON	(9)	EACH	2.00
39	2501.602	ADJUST APRON		EACH	4.00
40	2503.503	12" RC PIPE SEWER		LN FT	24.00
41	2503.503	15" RC PIPE SEWER		LN FT	24.00
42	2503.503	24" RC PIPE SEWER		LN FT	16.00
43	2503.503	27" RC PIPE SEWER		LN FT	8.00
44	2503.503	36" RC PIPE SEWER		LN FT	34.00
45	2503.602	CONNECT TO EXISTING STORM SEWER		EACH	14.00
46	2503.602	SANITARY SEWER SPOT REPAIR		EACH	1.00
47	2503.602	JOINT SEALING SANITARY MANHOLE		EACH	1.00
48	2503.602	REINSTATE LATERALS		EACH	1.00
49	2503.602	CIPP SHORT LINER (12" SEWER PIPE - STORM)		EACH	3.00
50	2503.602	CIPP SHORT LINER (15" SEWER PIPE - STORM)		EACH	1.00
51	2503.602	CIPP SHORT LINER (24" SEWER PIPE - STORM)		EACH	3.00
52	2503.602	CIPP SHORT LINER (27" SEWER PIPE - STORM)		EACH	1.00
53	2503.602	CIPP SHORT LINER (8" SEWER PIPE - SAN)		EACH	1.00
54	2503.603	LINING SEWER PIPE 8" (SAN)		LN FT	295.00
55	2504.601	TEMPORARY WATER SERVICE		LUMP SUM	1.00
56	2504.602	CONNECT TO EXISTING WATERMAIN		EACH	20.00
57	2504.602	HYDRANT		EACH	8.00
58	2504.602	VALVE BOX	(1) (10)	EACH	1.00
59	2504.602	1" CORPORATION STOP	(11)	EACH	5.00
60	2504.602	6" GATE VALVE & BOX		EACH	11.00
61	2504.602	8" GATE VALVE & BOX		EACH	5.00
62	2504.602	ADJUST CURB BOX		EACH	54.00
63	2504.602	CURB STOP BOX		EACH	1.00
64	2504.603	6" WATERMAIN DUCTILE IRON CL 52		LN FT	749.00
65	2504.603	8" WATERMAIN DUCTILE IRON CL 52		LN FT	36.00
66	2504.604	4" POLYSTYRENE INSULATION	(5)	SQ YD	21.00
67	2504.608	DUCTILE IRON FITTINGS		LB	757.00
68	2505.602	ADJUST VALVE BOX	(10)	EACH	22.00
69	2506.502	CASTING ASSEMBLY (SANITARY)	(10) (12)	EACH	31.00
70	2506.502	CASTING ASSEMBLY (STORM)	(10) (13)	EACH	27.00
71	2506.502	ADJUST FRAME & RING CASTING (STORM)	(10) (13)	EACH	7.00
72	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN (2' X3' CB)	(14)	LN FT	7.10
73	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020		LN FT	7.90
74	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4022	(15)	LN FT	7.60
75	2506.503	RECONSTRUCT DRAINAGE STRUCTURE (SANITARY)		LN FT	9.00

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

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 02/09/2026



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ISSUED	JJ/BAP	REV	02/09/2026
DESIGN	BAP		
CHECKED	BIF		
CITY/STATE	MINN		
PROJECT NO.	PW-26-0100		

**CITY OF ARDEN HILLS, MINNESOTA**  
 2026 PMP STREET & UTILITY IMPROVEMENTS

SHEET  
**G1.01**

**STATEMENT OF ESTIMATED QUANTITIES**

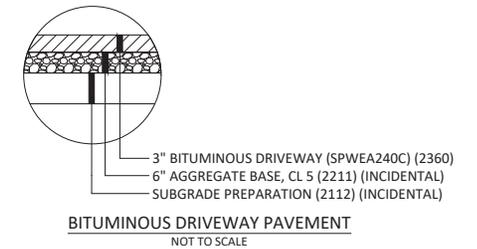
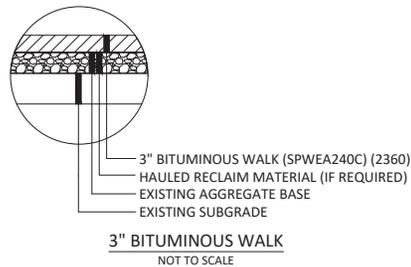
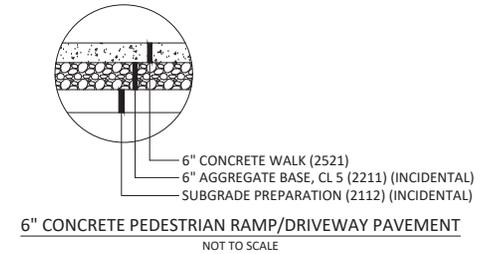
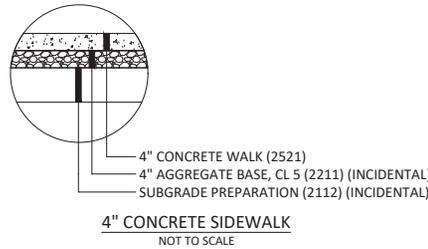
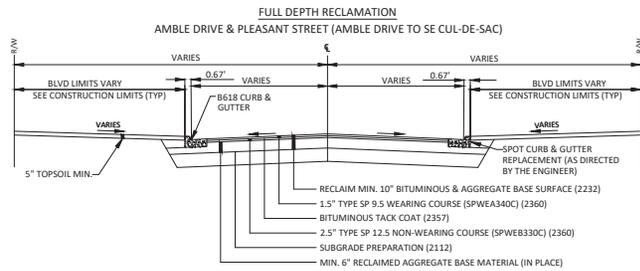
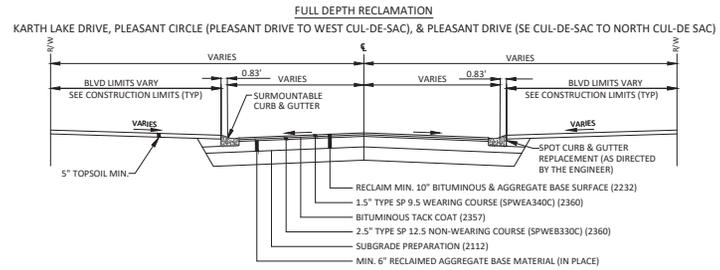
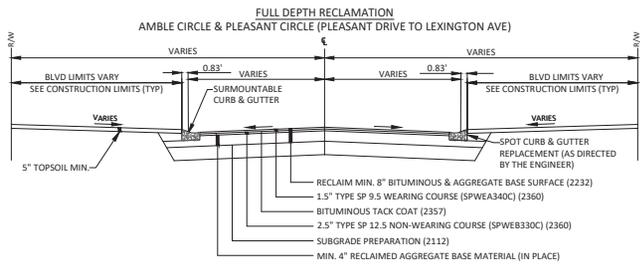
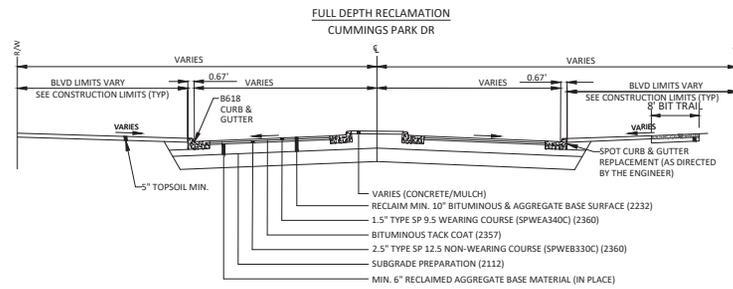
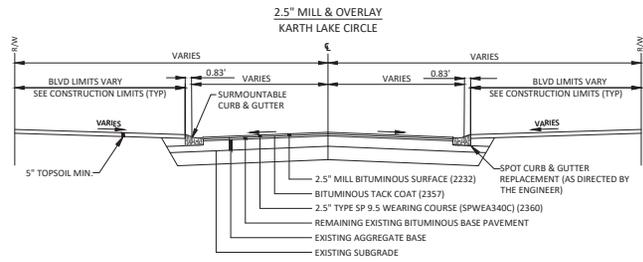
ITEM NO.	SPEC. REF	DESCRIPTION	NOTES	UNIT	ESTIMATED QUANTITY
76	2506.602	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL 1 (SUMP & SAFI BAFFLE)		EACH	1.00
77	2506.602	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL 2 (SUMP & SAFI BAFFLE)		EACH	1.00
78	2506.602	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL 4 (OCS)		EACH	1.00
79	2506.602	GROUT CATCH BASIN OR MANHOLE		EACH	6.00
80	2506.602	CASTING ASSEMBLY SPECIAL (FORD TYPE A-1)	(5)	EACH	7.00
81	2511.507	RANDOM RIPRAP CLASS III		CU YD	72.00
82	2521.518	6" CONCRETE WALK	(8)	SQ FT	913.00
83	2521.518	3" BITUMINOUS WALK		SQ FT	25678.00
84	2521.602	DRILL & GROUT REINF BAR (EPOXY COATED)		EACH	96.00
85	2531.503	CONCRETE CURB & GUTTER DESIGN SPECIAL SURMOUNTABLE (SPOT)	(3)	LN FT	1615.00
86	2531.503	CONCRETE CURB & GUTTER DESIGN B618 (SPOT)	(3)	LN FT	1799.00
87	2531.503	CONCRETE CURB DESIGN V	(5)	LN FT	20.00
88	2531.504	6" CONCRETE DRIVEWAY PAVEMENT	(8)	SQ YD	60.00
89	2531.618	TRUNCATED DOMES		SQ FT	131.00
90	2540.602	INSTALL MAILBOX SUPPORT	(2)	EACH	4.00
91	2540.618	INSTALL BRICK PAVERS	(5)	SQ FT	55.00
92	2557.603	INSTALL FENCE		LN FT	43.00
93	2563.601	TRAFFIC CONTROL		LUMP SUM	1.00
94	2564.502	INSTALL SIGN PANEL	(17)	EACH	1.00
95	2564.518	SIGN PANEL	(17)	SQ FT	16.50
96	2564.602	SIGN PANELS TYPE SPECIAL (STREET NAME BLADES)	(17)	EACH	18.00
97	2565.602	RIGID PVC LOOP DETECTOR 6' X 6'		EACH	9.00
98	2571.502	DECIDUOUS TREE 2.5" CAL B&B	(5)	EACH	14.00
99	2572.602	TREE PRUNING	(5)	HOUR	20.00
100	2573.501	STABILIZED CONSTRUCTION EXIT		LUMP SUM	1.00
101	2573.502	STORM DRAIN INLET PROTECTION		EACH	43.00
102	2573.503	SILT FENCE, TYPE MS		LN FT	502.00
103	2573.503	FLOTATION SILT CURTAIN TYPE STILL WATER		LN FT	133.00
104	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER		LN FT	4018.00
105	2574.507	COMMON TORSPILL BORROW		CU YD	480.00
106	2574.607	CLAY LINER	(CV) (P)	CU YD	186.00
107	2575.504	ROLLED EROSION PREVENTION CATEGORY 20 W/ SEED MIXTURE (XX-XXX)	(18)	SQ YD	3699.00
108	2575.504	ROLLED EROSION PREVENTION CATEGORY 30 W/ SEED MIXTURE (XX-XXX)	(18)	SQ YD	4016.00
109	2575.504	SHORELINE STABILIZATION (GROWBYS PRESTO)		SQ YD	130.00
110	2582.503	4" SOLID LINE MULTI-COMPONENT		LN FT	490.00
111	2582.503	4" BROKEN LINE MULTI-COMPONENT		LN FT	703.00
112	2582.503	4" DOUBLE SOLID LINE MULTI-COMPONENT		LN FT	971.00
113	2582.518	PAVEMENT MESSAGE MULTI-COMPONENT		SQ FT	140.00
114	2582.518	CROSSWALK MULTI-COMPONENT		SQ FT	900.00
<b>SCHEDULE "B" - ALTERNATE 1 (BASE PUMP SYSTEM IMPROVEMENTS)</b>					
115	2545.601	STORM LIFT STATION LUMP SUM ALTERNATE 1		LUMP SUM	1.00
<b>SCHEDULE "C" - ALTERNATE 2 (PUMP SYSTEM IMPROVEMENTS W/ REMOTE MONITORING)</b>					
116	2545.601	STORM LIFT STATION LUMP SUM ALTERNATE 2		LUMP SUM	1.00
<b>SCHEDULE "D" - ALTERNATE 3 (PUMP SYSTEM IMPROVEMENTS W/ REMOTE MONITORING &amp; CONTROLS)</b>					
117	2545.601	STORM LIFT STATION LUMP SUM ALTERNATE 3		LUMP SUM	1.00
<b>SCHEDULE "E" - ALTERNATE 4 (REPLACE CONDUIT &amp; WIRE TO NEW PUMP SYSTEM)</b>					
118	2545.601	REPLACE CONDUIT AND WIRE TO STORM LIFT STATION LUMP SUM ALTERNATE 4		LUMP SUM	1.00
<b>SCHEDULE "F" - ALTERNATE 5 (ARDEN OAKS PARK ADA TRAIL IMPROVEMENTS)</b>					
119	2540.601	ARDEN OAKS PARK ADA TRAIL IMPROVEMENTS LUMP SUM ALTERNATE 5		LUMP SUM	1.00
<b>SCHEDULE "G" - ALTERNATE 6 (ARDEN MANOR PARK BASKETBALL COURT IMPROVEMENTS)</b>					
120	2540.601	ARDEN MANOR PARK BASKETBALL COURT IMPROVEMENTS LUMP SUM ALTERNATE 6		LUMP SUM	1.00

**NOTES:**

- CASTING & VALVE BOX REPLACEMENTS WILL BE AS DIRECTED BY THE ENGINEER IN THE FIELD. TOKEN QUANTITY FOR POTENTIALLY BROKEN/DAMAGED EXISTING CASTINGS & VALVE BOXES.
- MAILBOXES SHALL BE PROTECTED DURING STORAGE. TEMPORARY MAILBOXES SHALL BE INSTALLED DURING CONSTRUCTION (INCIDENTAL), AND FINAL REINSTALLATION LOCATION SHALL BE IDENTIFIED BY THE ENGINEER.
- CONCRETE CURB AND GUTTER SPOT REPLACEMENT WILL BE REQUIRED AROUND ALL CATCH BASIN CASTING REPLACEMENTS, PEDESTRIAN RAMP IMPROVEMENTS, AND FOR DEFICIENT CURB AS MARKED IN THE FIELD BY THE ENGINEER.
- INCLUDES SAND FILLING OF THE ABANDONED INFRASTRUCTURE AND BULKHEADING EACH END WITH CONCRETE & BLOCKS, AS SPECIFIED.
- TOKEN QUANTITY, TO BE USED AS DIRECTED BY THE ENGINEER.
- SUBGRADE PREPARATION IS FOR TRAIL REHABILITATION AREAS ONLY AND INCLUDES THE RE-GRADING, HAULING, PLACEMENT, SUPPLEMENTING, AND PREPARATION OF THE EXISTING AGGREGATE BASE, OR CONSTRUCTION OF A NEW AGGREGATE BASE WITH EXCESS RECLAIM MATERIAL, FOR BITUMINOUS TRAIL CONSTRUCTION.
- PATCH BITUMINOUS PAVEMENT SHALL BE USED FOR BASE PAVEMENT REPLACEMENT IN THE MILL & OVERLAY AREA, AS DIRECTED BY THE ENGINEER AFTER COMPLETION OF THE MILLING OPERATION.
- BID ITEM INCLUDES REQUIRED EXCAVATION FOR AND THE FURNISHING & INSTALLATION OF AGGREGATE BASE MATERIAL, AS SPECIFIED.
- INCLUDES FURNISHING & INSTALLATION OF TRASH GUARD ON INLET APRONS (NOT OUTLETS) AS INDICATED IN THE DETAILS.

- FINAL CASTING/ VALVE BOX ADJUSTMENT SHALL BE INCLUDED IN THE PRICE BID FOR NEW CASTING ASSEMBLIES/ VALVE BOXES OR CASTING/VALVE BOX ADJUSTMENTS. ADJUSTMENTS SHALL INCLUDE THE REMOVAL/ REPLACEMENT OF ALL ADJUSTING RINGS AND SHALL BE CONSIDERED INCIDENTAL TO THE ASSOCIATED WORK.
- CONNECTION TO EXISTING SERVICE PIPES SHALL BE INCIDENTAL, REGARDLESS OF THE EXISTING PIPE SIZE OR MATERIAL, INCLUDING THE NECESSARY FITTINGS AND LABOR AS REQUIRED.
- EXTERNAL CHIMNEY SEALS & INTERNAL CHIMNEY SEALS (AS INDICATED IN THE SPECIFICATIONS) SHALL BE INSTALLED WITH ALL NEW SANITARY MH CASTINGS OR SANITARY CASTING ADJUSTMENTS AND SHALL BE INCLUDED IN THE PRICE BID FOR THE ASSOCIATED BID ITEM.
- INTERNAL CHIMNEY SEALS (AS INDICATED IN THE SPECIFICATIONS) SHALL BE INSTALLED WITH ALL NEW STORM MH/CB CASTINGS OR STORM CASTING ADJUSTMENTS AND SHALL BE INCLUDED IN THE PRICE BID FOR THE ASSOCIATED BID ITEM.
- CONSTRUCT STORM SEWER CATCHBASIN AS SHOWN IN THE DETAILS.
- CONSTRUCT STORM SEWER CATCHBASIN MANHOLES WITH A 2'X3' TOP SLAB OPENING AS SHOWN IN THE DETAILS.
- INCLUDES THE FURNISHING AND INSTALLATION OF GEOTEXTILE FABRIC, AS SPECIFIED.
- SIGN PANELS SHALL INCLUDE NEW SIGN POSTS, HARDWARE, AND INSTALLATION AS REQUIRED AND SHALL BE INCLUDED IN THE PRICE BID.
- INCLUDES THE FURNISHING AND INSTALLATION OF FERTILIZER AND SEED MIXTURE, AS SPECIFIED.
- COMPACTED VOLUME
- EVACUATED VOLUME
- LOOSE VOLUME
- PLAN QUANTITY

02/09/2026 10:53 AM



**TYPICAL SECTION NOTES:**

1. ANY VARIATIONS FROM THE TYPICAL SECTION DIMENSIONS ARE SHOWN ON THE PLAN DRAWINGS
2. PAVEMENT SLOPES AT INTERSECTION LOCATIONS MAY VARY FROM THOSE SHOWN ON THE TYPICAL SECTION
3. GRADE ALL TOPSOIL MATERIAL TO 1" DEPTH BELOW CONCRETE SURFACES PRIOR TO PLACING SOD
4. ELEVATIONS SHOWN ARE RELATIVE TO C/L AND DO NOT RELATE TO ACTUAL CONSTRUCTION GRADES

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

*Bradley J. Fisher*  
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02/09/2026



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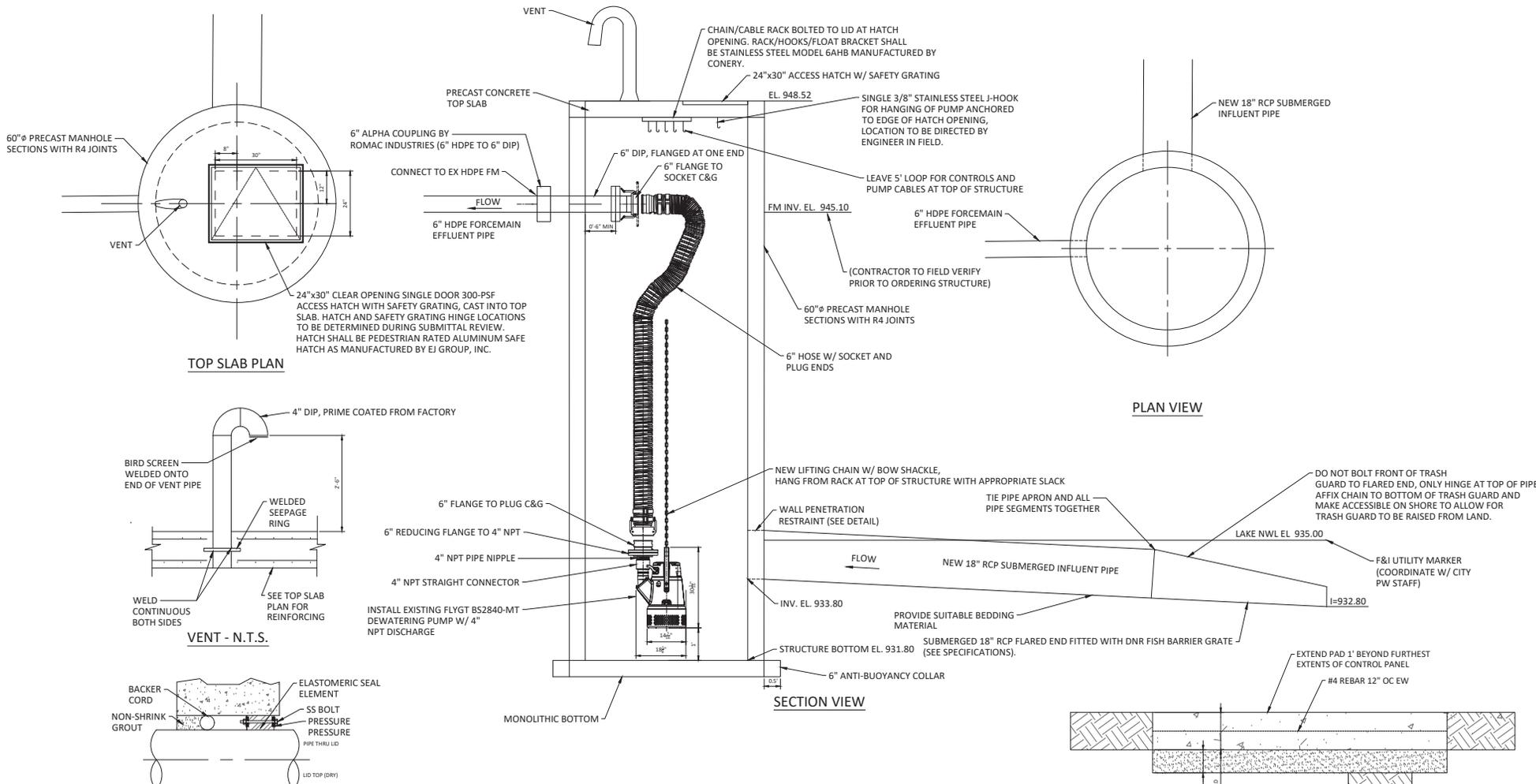


DESIGNED	DRAWN	CHECKED	DATE
JJ/BAP	BAP	BIF	02/09/2026

CITY OF ARDEN HILLS, MINNESOTA  
2026 PMP STREET & UTILITY IMPROVEMENTS

TYPICAL SECTIONS

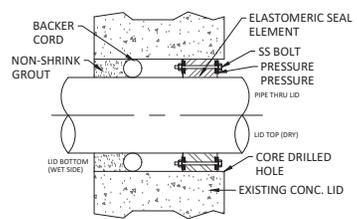
SHEET  
C1.01



**1**  
1.08 **DRAINAGE STRUCTURE DESIGN SPECIAL 3 (STORM LIFT STATION) - N.T.S.**

- NOTES:**
1. ALL PIPE JOINTS SHALL BE TIED.
  2. FIELD VERIFY LOCATION AND ELEVATION OF EXISTING FORCEMAIN.
  3. REFER TO ELECTRIC PLANS FOR LIFT STATION ELECTRIC DETAILS.
  4. ALL WORK IN THIS DETAIL/ON THIS PLAN SHEET IS INCLUDED WITH ALTERNATE 1 OR 2 OR 3.

**WALL PENETRATIONS RESTRAINT  
CONSTRUCTED IN STRUCTURE - N.T.S.**



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*Bradley J. Fisher*  
BRADLEY J. FISHER  
562595  
02/09/2025



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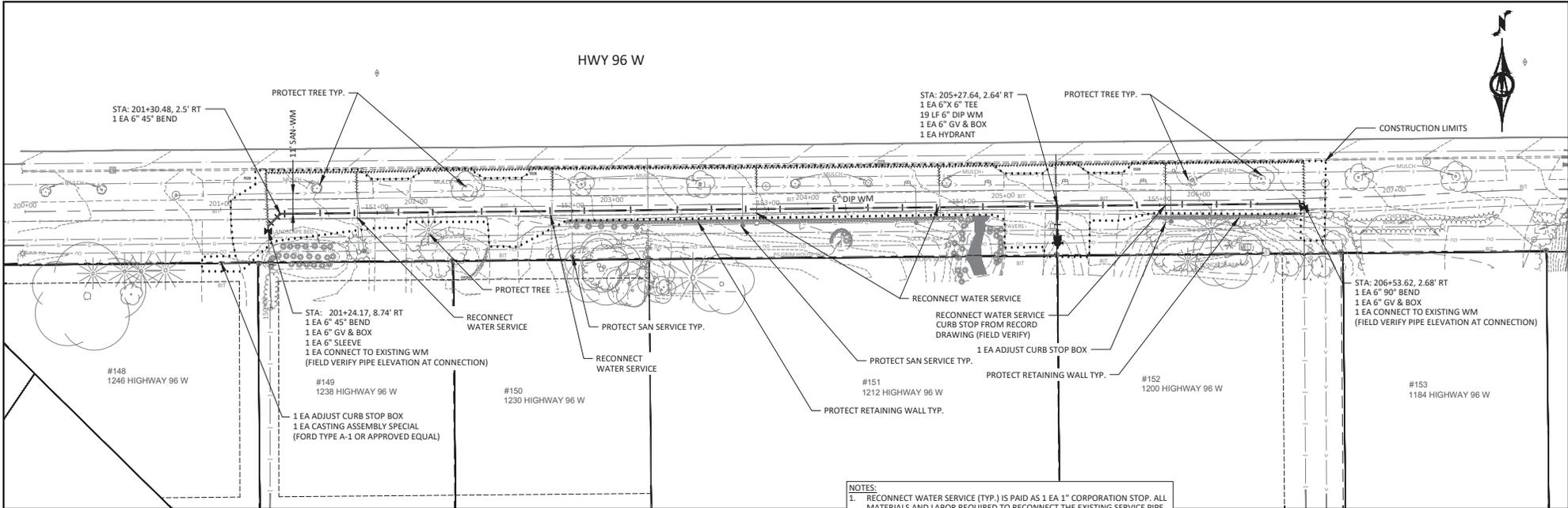
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JJJ/BAP	BID	02/09/2025	
DRAWN	BAP		
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CITY PROJ. NO.	PW-26-0100		

CITY OF ARDEN HILLS, MINNESOTA  
2026 PMP STREET & UTILITY IMPROVEMENTS

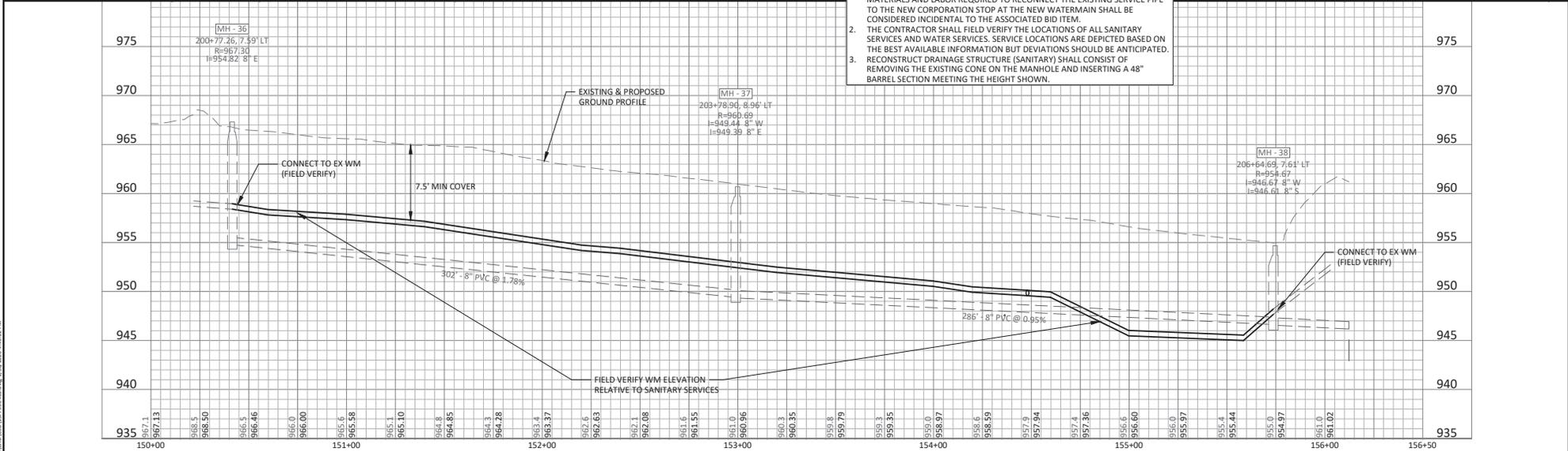
LIFT STATION DETAILS  
ALTERNATE 1 OR 2 OR 3

SHEET  
C1.08

HWY 96 W



- NOTES:**
1. RECONNECT WATER SERVICE (TYP.) IS PAID AS 1 EA 1" CORPORATION STOP. ALL MATERIALS AND LABOR REQUIRED TO RECONNECT THE EXISTING SERVICE PIPE TO THE NEW CORPORATION STOP AT THE NEW WATERMAIN SHALL BE CONSIDERED INCIDENTAL TO THE ASSOCIATED BID ITEM.
  2. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF ALL SANITARY SERVICES AND WATER SERVICES. SERVICE LOCATIONS ARE DEPICTED BASED ON THE BEST AVAILABLE INFORMATION BUT DEVIATIONS SHOULD BE ANTICIPATED.
  3. RECONSTRUCT DRAINAGE STRUCTURE (SANITARY) SHALL CONSIST OF REMOVING THE EXISTING CONE ON THE MANHOLE AND INSERTING A 48" BARREL SECTION MEETING THE HEIGHT SHOWN.



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*Bradley J. Fisher*  
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 56395  
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**ARDEN HILLS**  
 CITY OF ARDEN HILLS, MINNESOTA

DESIGNED	JJ/BAP	DATE	02/09/2026
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CHECKED	BIF		
CURRY PROJ. NO.	PW-26-0100		

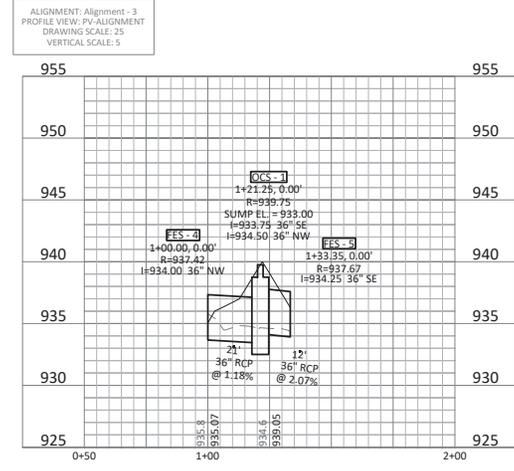
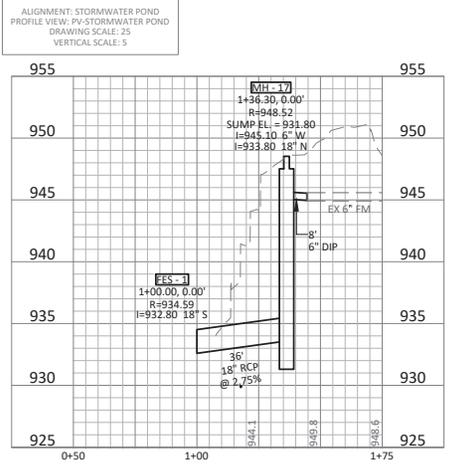
CITY OF ARDEN HILLS, MINNESOTA  
 2026 PMP STREET & UTILITY IMPROVEMENTS  
 SANITARY & WATER PLAN & PROFILE  
 HWY 96 W

SHEET  
**C4.01**

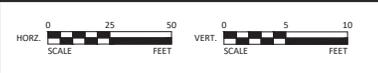
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**ALTERNATE 1 OR 2 OR 3**



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 BRADLEY J. FISHER  
 56295  
 02/09/2026



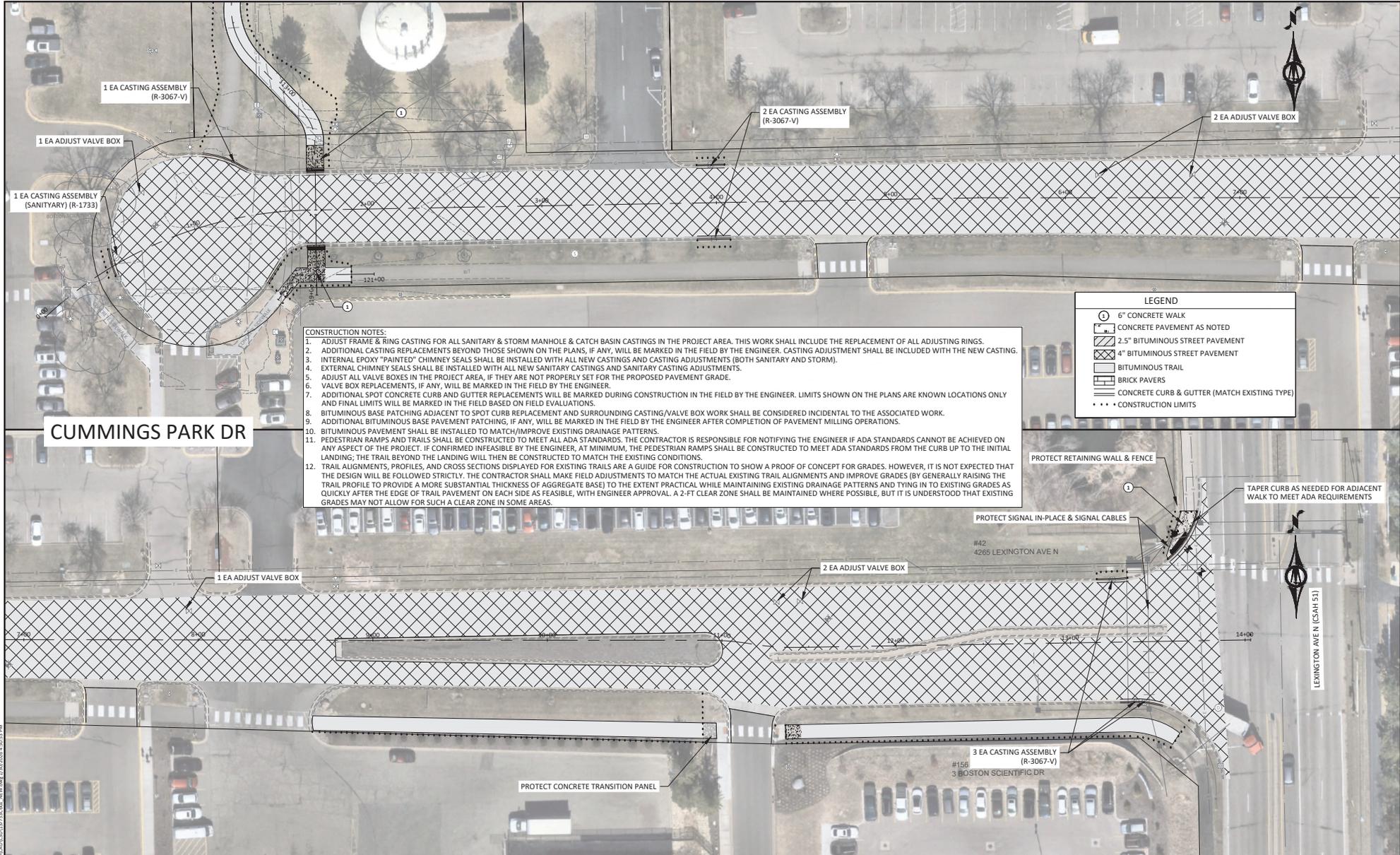
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PROJECT NO.: PW-26-0100			

CITY OF ARDEN HILLS, MINNESOTA  
 2026 PMP STREET & UTILITY IMPROVEMENTS  
 STORM SEWER PLAN & PROFILE

SHEET  
**C5.04**



**LEGEND**

- ① 6" CONCRETE WALK
- ▭ CONCRETE PAVEMENT AS NOTED
- ▨ 2.5" BITUMINOUS STREET PAVEMENT
- ▩ 4" BITUMINOUS TRAIL PAVEMENT
- ▭ BITUMINOUS TRAIL
- ▨ BRICK PAVERS
- ▭ CONCRETE CURB & GUTTER (MATCH EXISTING TYPE)
- CONSTRUCTION LIMITS

**CONSTRUCTION NOTES:**

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**CUMMINGS PARK DR**



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*Bradley J. Fisher*  
 BRADLEY J. FISHER  
 562595 02/09/2026



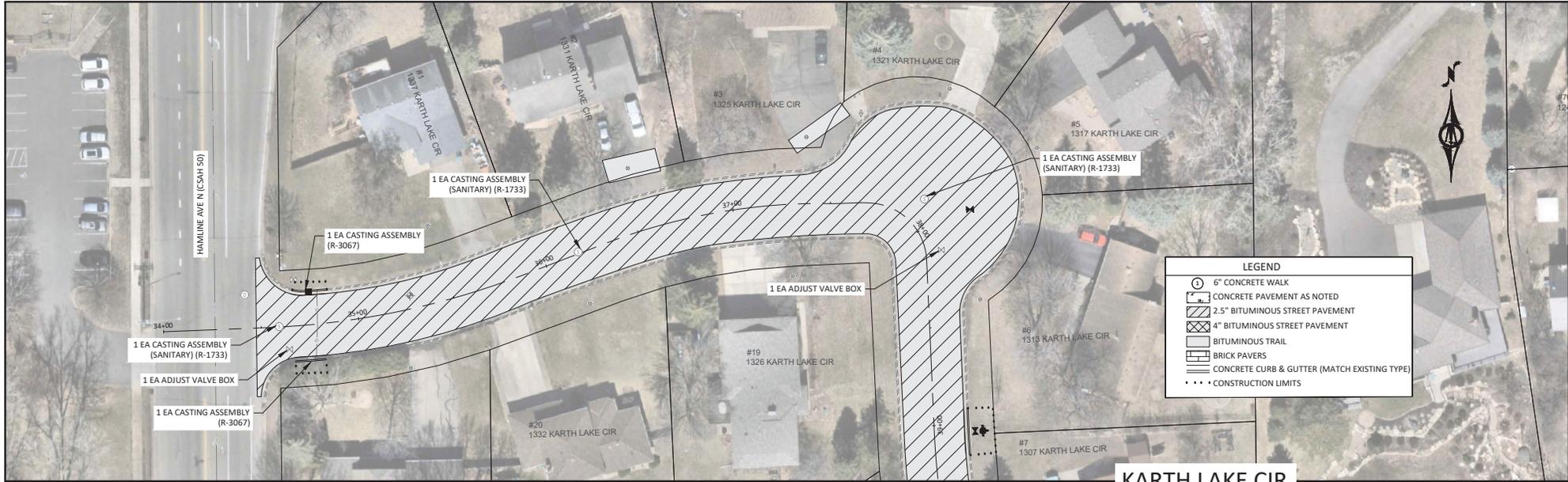
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DESIGNED	DATE	PROJECT NO.	DATE
JJ/BAP	BID	02/09/2026	
DRAWN	BAP		
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COURT FILED, NO.	PW-26-0100		

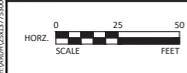
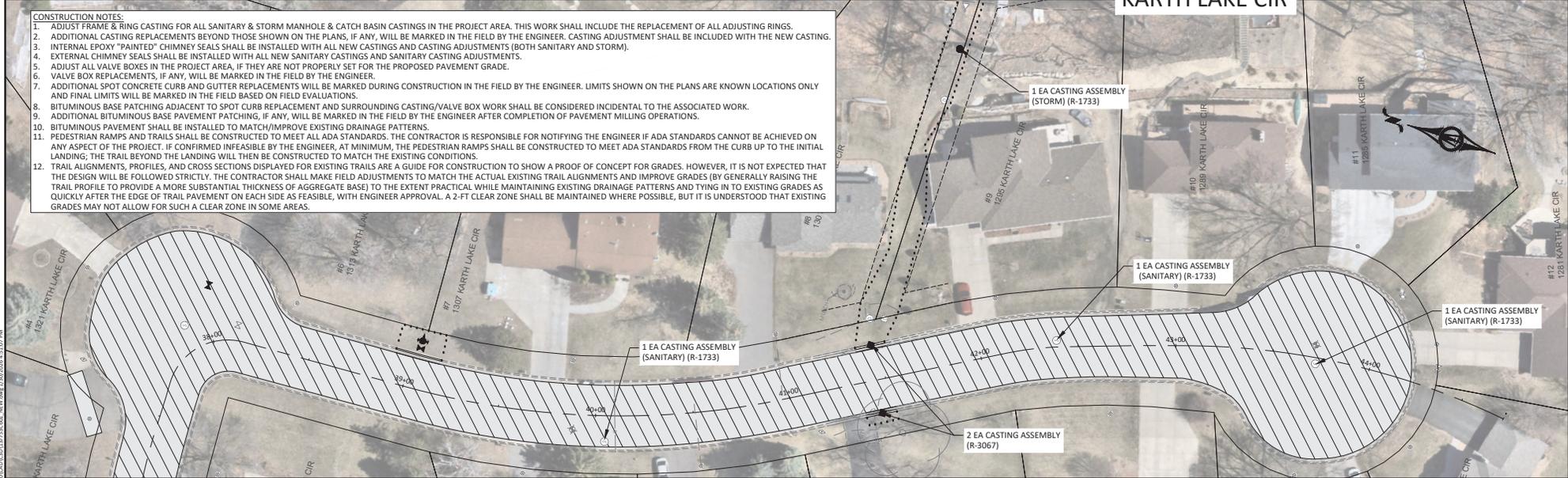
**CITY OF ARDEN HILLS, MINNESOTA**  
 2026 PMP STREET & UTILITY IMPROVEMENTS  
 STREET PLAN  
 CUMMINGS PARK DR

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LEGEND	
	6" CONCRETE WALK
	CONCRETE PAVEMENT AS NOTED
	2.5" BITUMINOUS STREET PAVEMENT
	4" BITUMINOUS STREET PAVEMENT
	BITUMINOUS TRAIL
	BRICK PAVERS
	CONCRETE CURB & GUTTER (MATCH EXISTING TYPE)
	CONSTRUCTION LIMITS

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*Bradley J. Fisher*  
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 56295  
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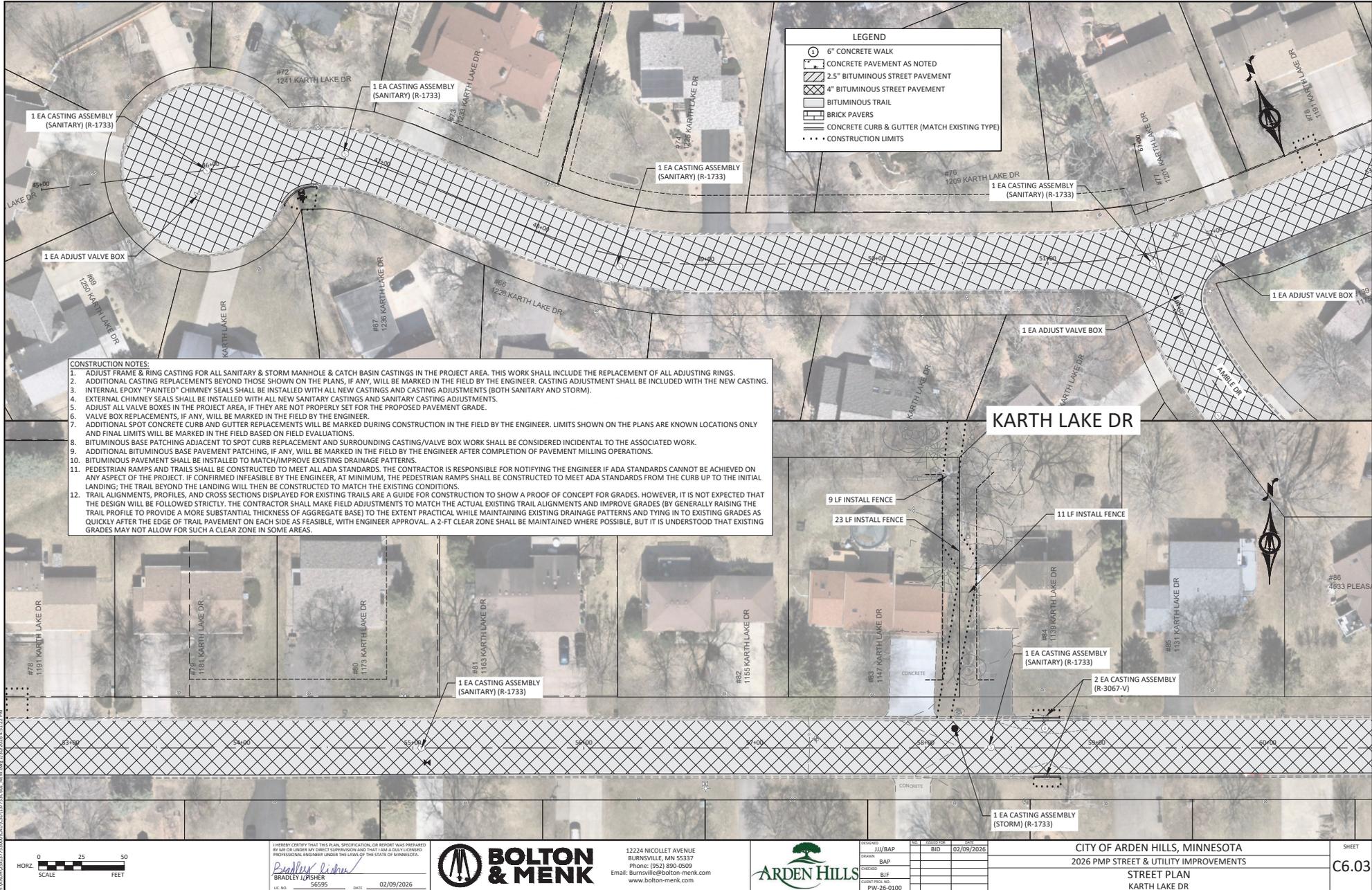


DESIGNED	DATE	PROJECT NO.	DATE
JJJ/BAP		BID	02/09/2026
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PW-26-0100			

CITY OF ARDEN HILLS, MINNESOTA  
 2026 PMP STREET & UTILITY IMPROVEMENTS  
 STREET PLAN  
 KARTH LAKE CIR

SHEET  
 C6.02

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**LEGEND**

- 6" CONCRETE WALK
- CONCRETE PAVEMENT AS NOTED
- 2.5" BITUMINOUS STREET PAVEMENT
- 4" BITUMINOUS STREET PAVEMENT
- BITUMINOUS TRAIL
- BRICK PAVERS
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**Bradley Fisher**  
 BRADLEY FISHER  
 LIC. NO. 56295      DATE: 02/09/2026



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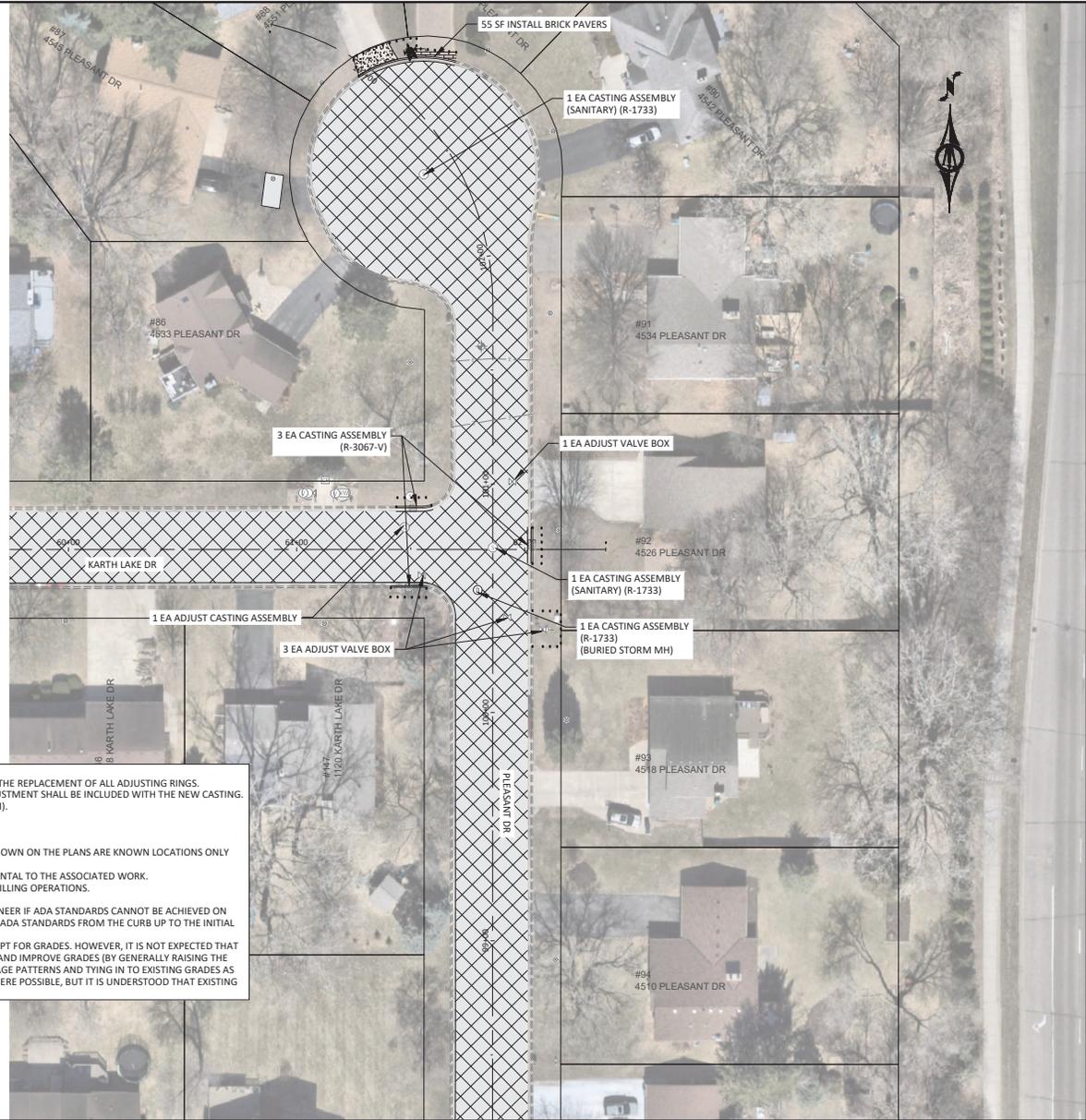


DATE	DESCRIPTION	BY
02/09/2026	BID	JJ/BAP
		BAP
		BIF
		PW-26-0100

CITY OF ARDEN HILLS, MINNESOTA  
 2026 PMP STREET & UTILITY IMPROVEMENTS  
 STREET PLAN  
 KARTH LAKE DR

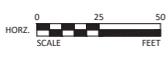
SHEET  
**C6.03**

LEGEND	
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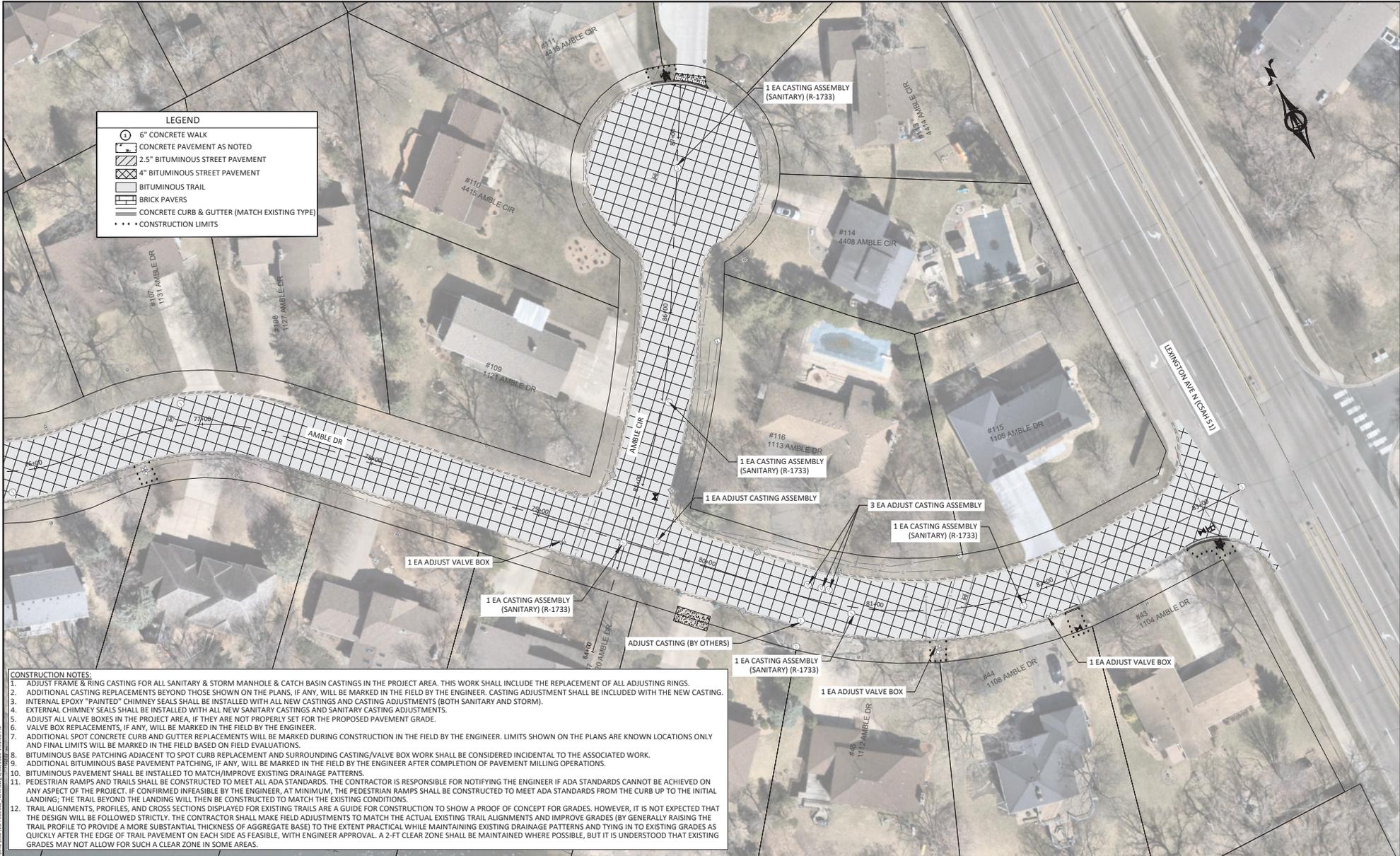


DATE	BY	DESCRIPTION
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	BAP	
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CITY OF ARDEN HILLS, MINNESOTA  
 2026 PMP STREET & UTILITY IMPROVEMENTS  
 STREET PLAN  
 KARTH LAKE DR

SHEET  
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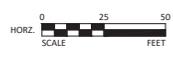




**LEGEND**

- 6" CONCRETE WALK
- CONCRETE PAVEMENT AS NOTED
- 2.5" BITUMINOUS STREET PAVEMENT
- 4" BITUMINOUS STREET PAVEMENT
- BITUMINOUS TRAIL
- BRICK PAVERS
- CONCRETE CURB & GUTTER (MATCH EXISTING TYPE)
- CONSTRUCTION LIMITS

- CONSTRUCTION NOTES:**
- ADJUST FRAME & RING CASTING FOR ALL SANITARY & STORM MANHOLE & CATCH BASIN CASTINGS IN THE PROJECT AREA. THIS WORK SHALL INCLUDE THE REPLACEMENT OF ALL ADJUSTING RINGS.
  - ADDITIONAL CASTING REPLACEMENTS BEYOND THOSE SHOWN ON THE PLANS, IF ANY, WILL BE MARKED IN THE FIELD BY THE ENGINEER. CASTING ADJUSTMENT SHALL BE INCLUDED WITH THE NEW CASTING.
  - INTERNAL EPOXY "PAINTED" CHIMNEY SEALS SHALL BE INSTALLED WITH ALL NEW CASTINGS AND CASTING ADJUSTMENTS (BOTH SANITARY AND STORM).
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  - ADJUST ALL VALVE BOXES IN THE PROJECT AREA, IF THEY ARE NOT PROPERLY SET FOR THE PROPOSED PAVEMENT GRADE.
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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

*Bradley J. Fisher*  
 BRADLEY J. FISHER  
 562925  
 02/09/2026

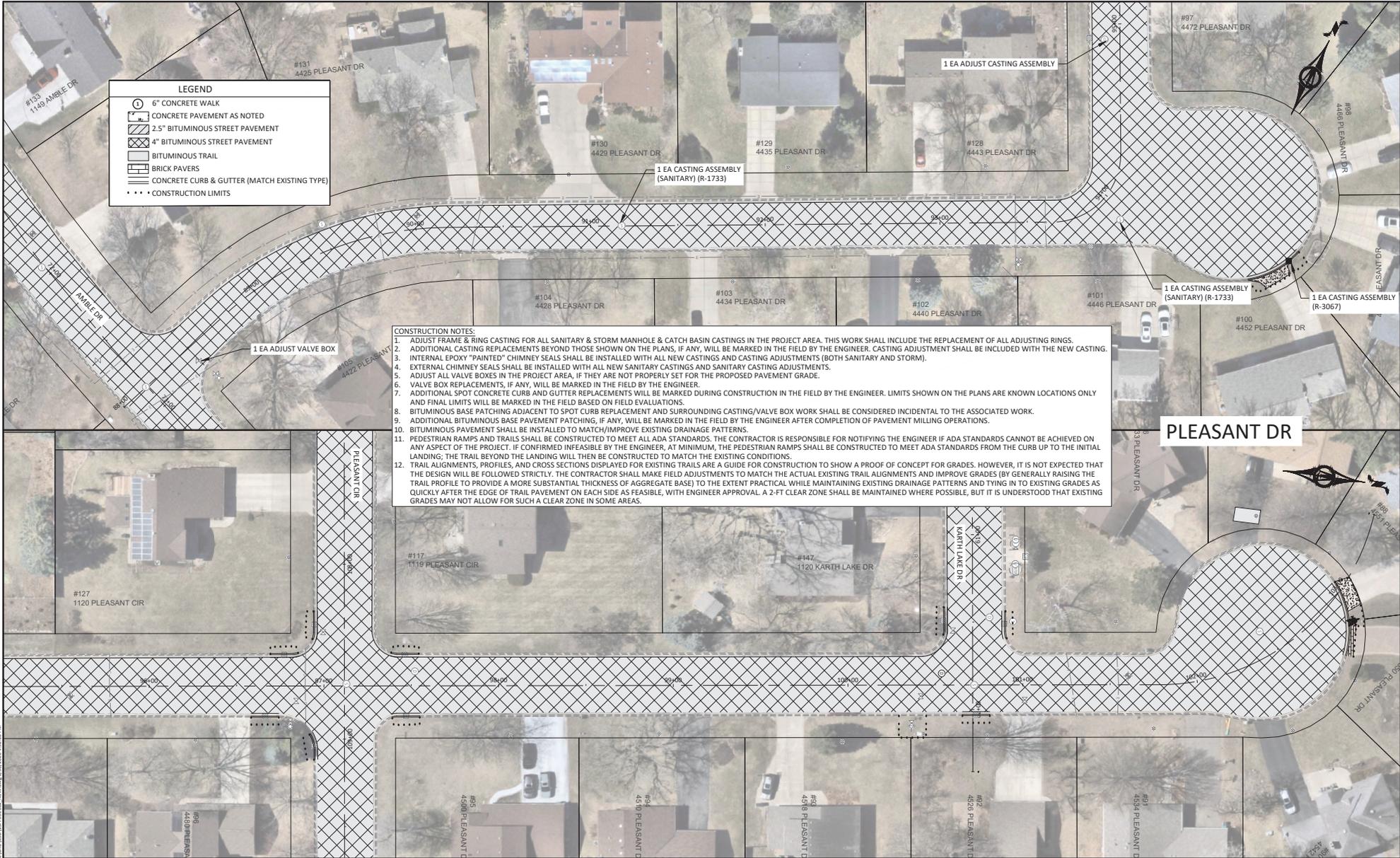


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DESIGNED	DRAWN	CHECKED	DATE
JJ/BAP	BAP	BIF	02/09/2026

CITY OF ARDEN HILLS, MINNESOTA	SHEET
2026 PMP STREET & UTILITY IMPROVEMENTS	
STREET PLAN	
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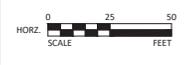


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- BITUMINOUS TRAIL
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*Bradley J. Fisher*  
 BRADLEY J. FISHER  
 LIC. NO. 56395      DATE: 02/09/2026



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DESIGNED	JJ/BAP	DATE	02/09/2026
DRAWN	BAP		
CHECKED	BIF		
COURT FILED NO.	PW-26-0100		

CITY OF ARDEN HILLS, MINNESOTA  
 2026 PMP STREET & UTILITY IMPROVEMENTS  
 STREET PLAN  
 PLEASANT DR

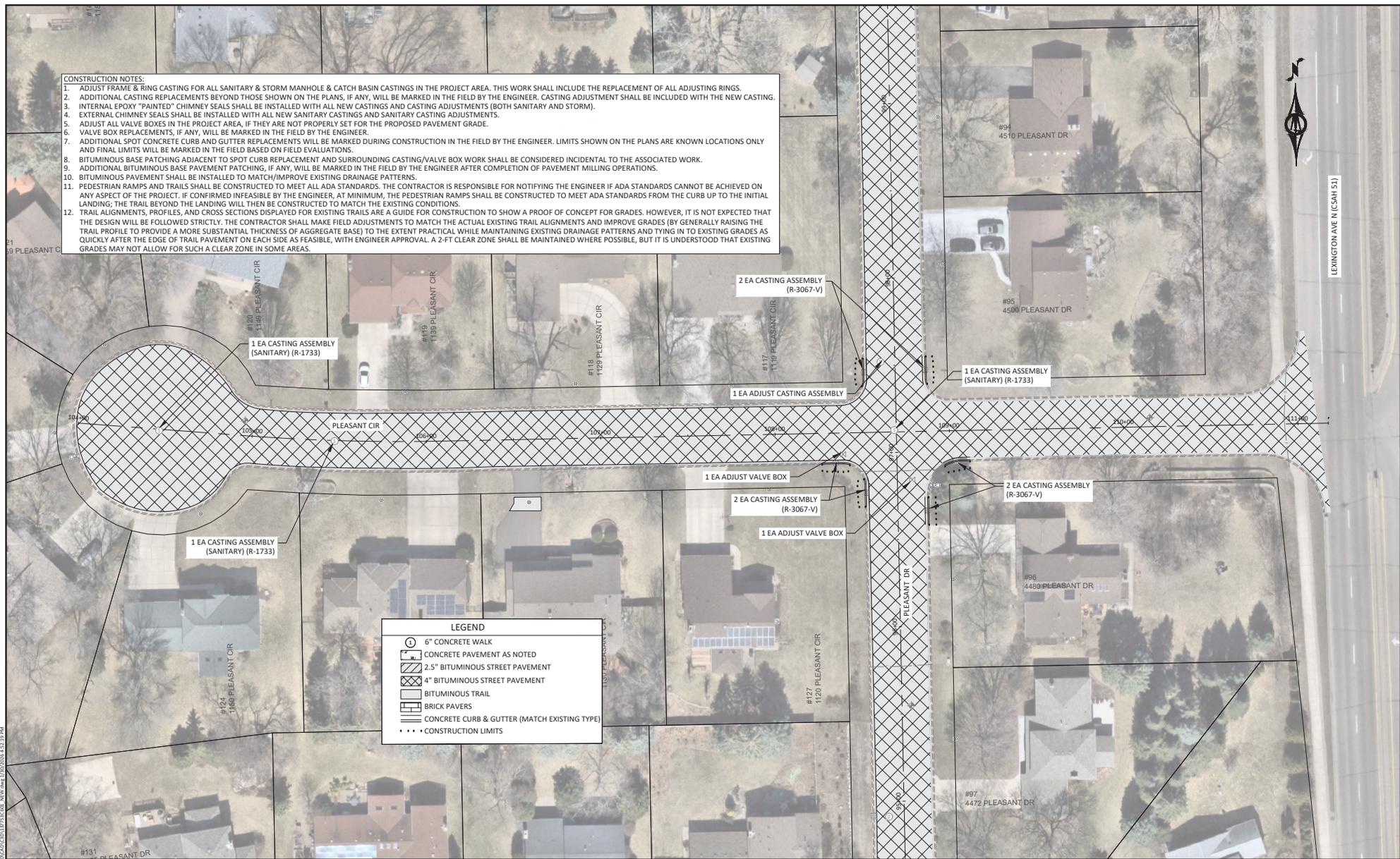
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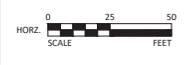
LEXINGTON AVE N (CSAH 51)



**LEGEND**

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*Bradley J. Fisher*  
 BRADLEY J. FISHER  
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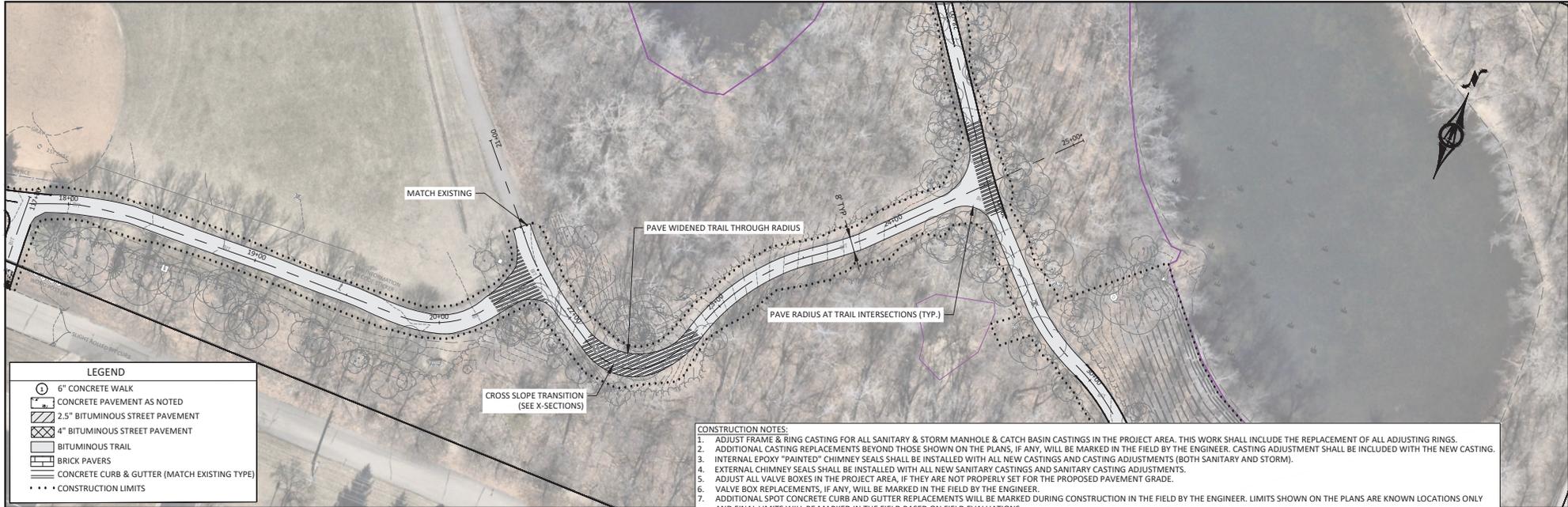


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CITY OF ARDEN HILLS, MINNESOTA  
 2026 PMP STREET & UTILITY IMPROVEMENTS  
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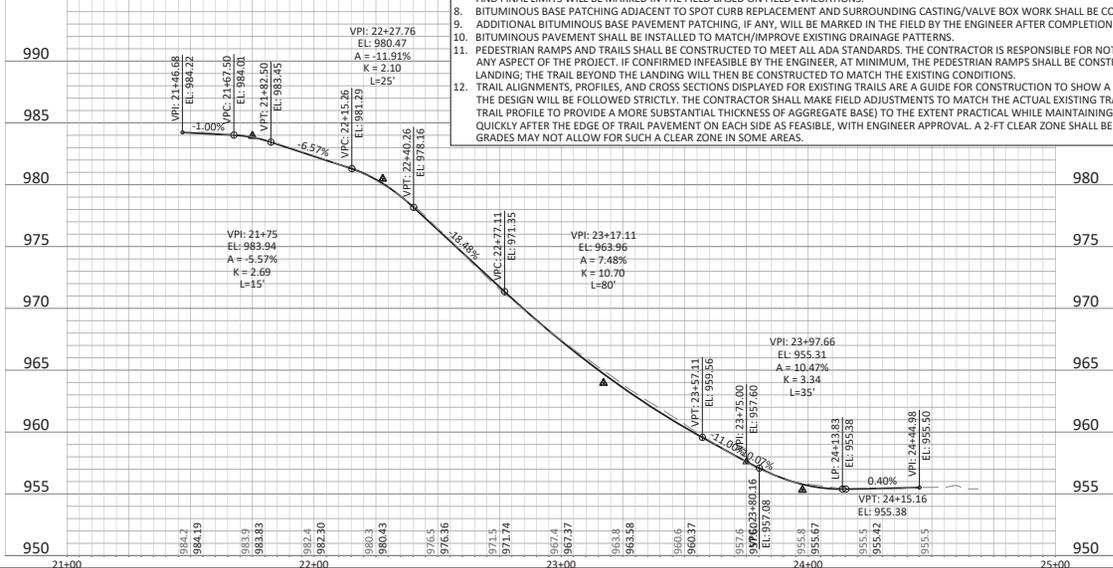




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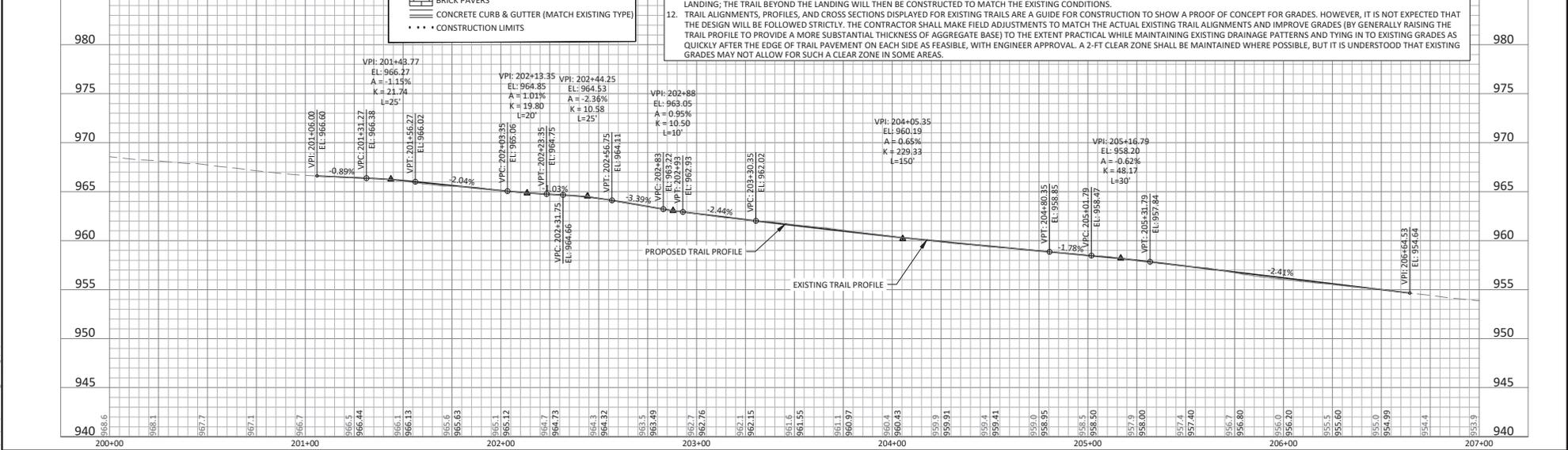
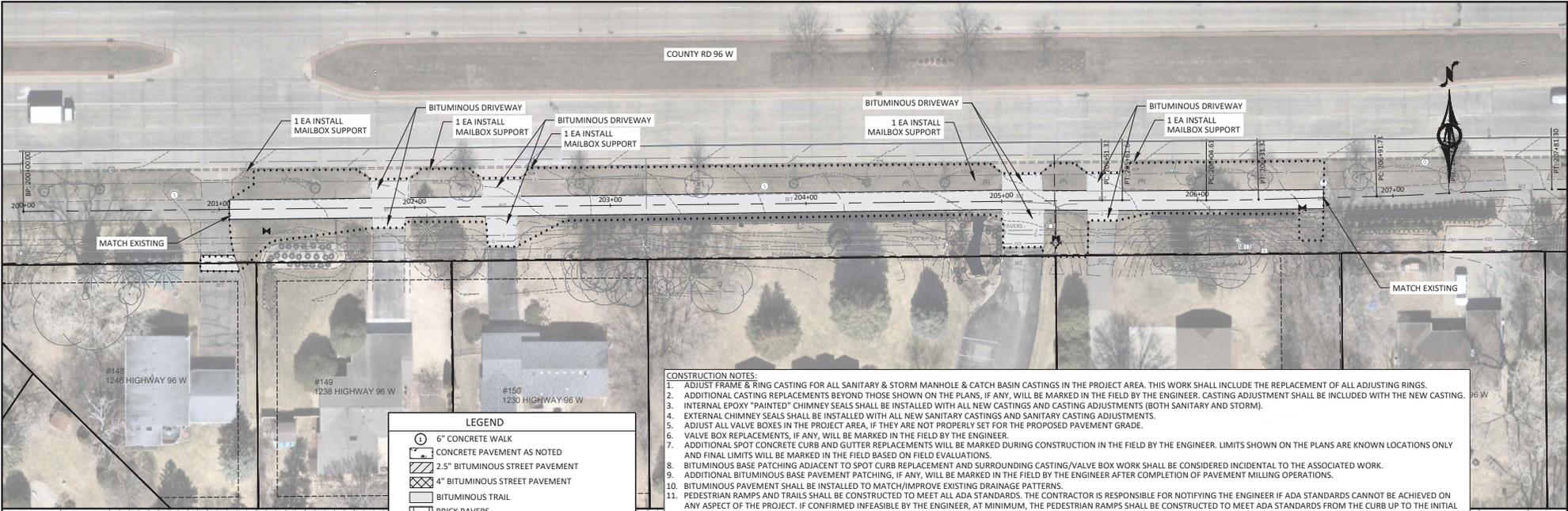
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**BOLTON & MENK**

**ARDEN HILLS**

DESIGNED	JJ/BAP	DATE	02/09/2026
DRAWN	BAP		
CHECKED	BIF		
COUNTY PROJ. NO.	PW-26-0100		

CITY OF ARDEN HILLS, MINNESOTA  
2026 PMP STREET & UTILITY IMPROVEMENTS  
TRAIL PLAN & PROFILE  
HWY 96 TRAIL

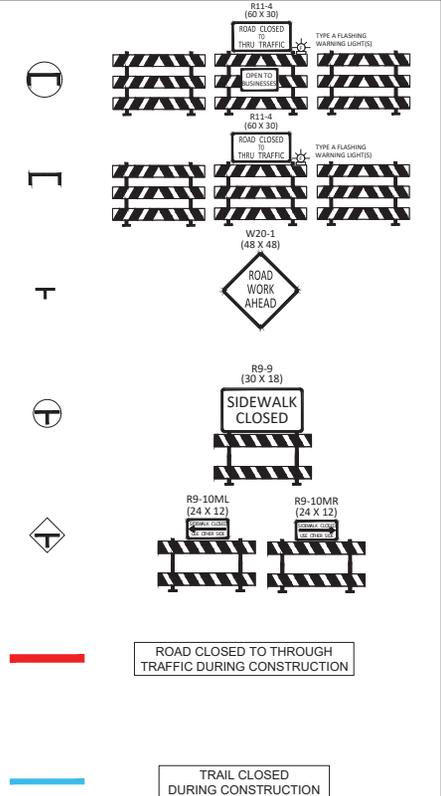
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SUBMITTED TRAFFIC CONTROL PLAN MUST INCLUDE ALL PEDESTRIAN DETOUR SIGNAGE REQUIRED BY RAMSEY COUNTY UNDER THEIR PERMITTING PROCESS TO NAVIGATE PEDESTRIANS AROUND THE WORK ZONE USING THE TRAIL ON THE NORTH SIDE OF HWY 96.

SUBMITTED TRAFFIC CONTROL PLAN MUST INCLUDE A SHOULDER CLOSURE AROUND THE BOULEVARD WORK ZONE, AS REQUIRED BY RAMSEY COUNTY UNDER THEIR PERMITTING PROCESS. A SHOULDER CLOSURE DOES NOT ALLOW THE SHOULDER TO BE USED FOR STOCKPILING MATERIALS OR PARKING OF EQUIPMENT OR VEHICLES (MUST BE CONTAINED BEHIND THE CURB). IF THE CONTRACTOR REQUIRES USE OF THE SHOULDER FOR THESE ACTIVITIES, A CLOSURE OF THE NEAREST THROUGH LANE WILL ALSO BE REQUIRED AND SHOULD BE INCLUDED IN THE PRICE BID (RAMSEY COUNTY MAY LIMIT THE LENGTH OF TIME AND HOURS OF THE DAY THAT THE THROUGH LANE MAY BE CLOSED).

ALL THROUGH LANES ON LEXINGTON AVE MUST BE MAINTAINED AT ALL TIMES. ADDITIONAL SIGNAGE FOR SB RIGHT TURN LANE CLOSURES WILL BE TEMPORARILY REQUIRED FOR WORK BLOCKING THE TURN LANE.

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- TRAFFIC CONTROL NOTES:**
1. THE CONTRACTOR MUST DEVELOP A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL SIGNS AND DEVICES. THE CONTRACTOR MUST NOTIFY RAMSEY COUNTY OF ANY SIGNAGE INSTALLED WITHIN COUNTY ROW, IN ACCORDANCE WITH THE ASSOCIATED PROJECT PERMIT.
  2. ALL CONSTRUCTION AND DETOUR SIGNS INDICATED HEREIN SHALL BE FURNISHED, INSTALLED, AND MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE COMPENSATED UNDER ITEM 2563 TRAFFIC CONTROL AND NO FURTHER COMPENSATION WILL BE MADE THEREFORE. CONTRACTOR SIGNING WILL INCLUDE, BUT NOT BE LIMITED TO, SIGNS AND FLASHERS FOR LANE CLOSURES, DETOURS, LOW SHOULDERS, FRESH OIL, FLAGMAN AHEAD, ETC. THE NUMBER AND LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S OPERATIONS.
  3. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.
  4. TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION WORK BEGINNING.
  5. MNDOT, RAMSEY COUNTY, THE CITY OF ARDEN HILLS, AND THE ENGINEER WILL HAVE THE RIGHT TO MODIFY THE TRAFFIC CONTROL REQUIREMENTS AS DEEMED NECESSARY DUE TO CONDITIONS ENCOUNTERED IN THE FIELD.
  6. THE TRAFFIC CONTROL PLAN MAY NEED TO BE MODIFIED AS A RESULT OF CONTRACTOR SCHEDULING OR AS REQUIRED BY MNDOT, RAMSEY COUNTY, THE CITY OF ARDEN HILLS, AND THE ENGINEER. SAID CHANGES SHALL BE INCIDENTAL.
  7. THE ENGINEER SHALL BE NOTIFIED ONE WEEK PRIOR TO DETOUR BEING SET UP.
  8. IF DEEMED NECESSARY, ADDITIONAL TRAFFIC CONTROL DEVICES OR FLAGGING MAY BE REQUIRED BY THE ENGINEER.
  9. TRAFFIC CONTROL DEVICES SHALL BE MOVED/ REPLACED/ REMOVED AS CONSTRUCTION PROGRESSES. TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ENGINEER DETERMINES IT ACCEPTABLE FOR SIGNS TO BE REMOVED.
  10. CONTRACTOR SHALL COORDINATE WITH IMPACTED BUSINESSES, INCLUDING BOSTON SCIENTIFIC CONTRACTS STAFF, REGARDING ACCESS CLOSURES ALONG CUMMINGS PARK DR. CLOSURES SHALL MEET THE REQUIREMENTS IDENTIFIED IN THE CONTRACT MANUAL.



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56295  
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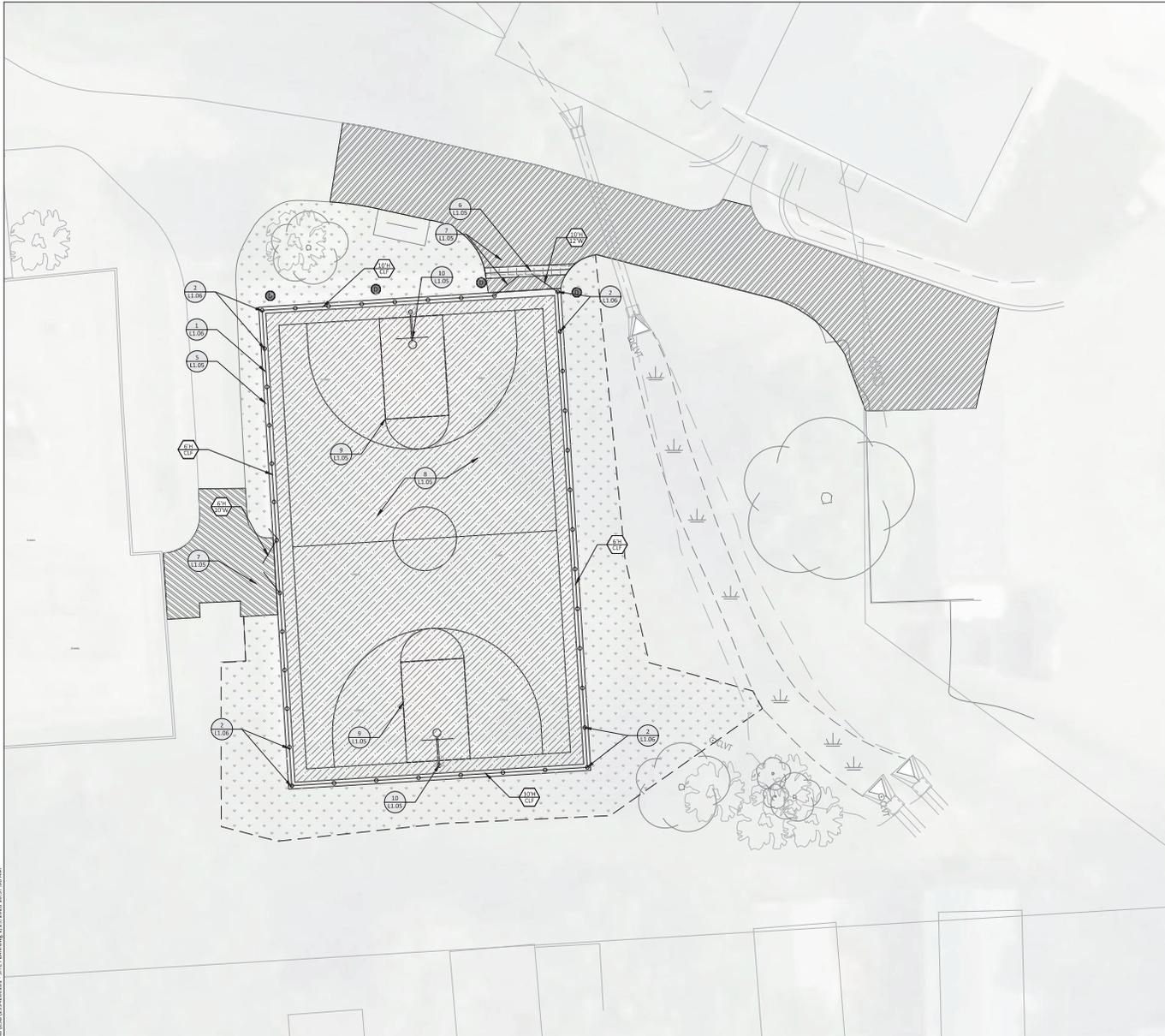
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CITY OF ARDEN HILLS, MINNESOTA  
2026 PMP STREET & UTILITY IMPROVEMENTS  
TRAFFIC CONTROL PLAN

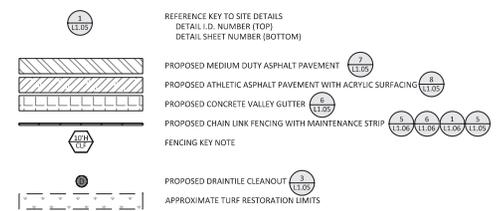
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**NOTES**

1. CHECK ALL PLAN AND DETAIL DIMENSIONS AND VERIFY SAME BEFORE FIELD LAYOUT.
2. ALL DISTURBED AREAS, WHICH ARE NOT DESIGNATED TO BE PAVED, SHALL RECEIVE AT LEAST 6" OF TOPSOIL AND SHALL BE SOD. ALL AREAS NOT DESIGNATED FOR SOD, WHICH ARE DISTURBED BY CONSTRUCTION, SHALL BE SEEDED WITH SEED MIX #1.
3. FAILURE OF TURF DEVELOPMENT, IN THE EVENT THE CONTRACTOR FAILS TO PROVIDE AN ACCEPTABLE TURF, RE-SOD ALL APPLICABLE AREAS, AT NO ADDITIONAL COST TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER OR LANDSCAPE ARCHITECT.

**LEGEND**



**FENCING KEY NOTES**

- 10' HIGH CHAIN LINK FENCE WITH TOP, MIDDLE AND BOTTOM RAIL (POST SPACING = 8' O.C. MAX)
- 6' HIGH CHAIN LINK FENCE WITH TOP, MIDDLE AND BOTTOM RAIL (POST SPACING = 8' O.C. MAX)
- 6' HIGH, 10' WIDE DOUBLE SWING GATE WITH LOCKING DEVICE
- 10' HIGH, 12' WIDE DOUBLE SWING GATE WITH LOCKING DEVICE

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

JONATHAN PRIESEN  
LIC. NO. 52423 DATE: 02/09/2026

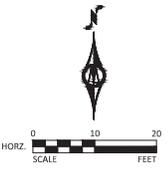


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PW-26-0100			

CITY OF ARDEN HILLS, MINNESOTA  
2026 PMP STREET AND UTILITY IMPROVEMENTS  
ALTERNATE 6: ARDEN MANOR PARK BASKETBALL IMPROVEMENTS  
SITE PLAN



SHEET  
L1.02

