JACKSON COMMONS PARK

CITY OF SHAKOPEE

JACKSON TOWNSHIP
SHAKOPEE, MN 55379



CIVIL
WESTWOOD
12701 WHITEWATER DRIVE, SUITE 300
MINNETONKA, MN 55343
PH: (952) 937-5150
CORY MEYER

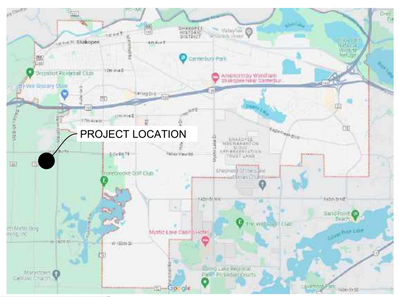
LANDSCAPE ARCHITECT
CONFLUENCE
530 N THIRD STREET, SUITE 120
MINNEAPOLIS, MN 55401
PH: (612) 333-3702
www.thinkconfluence.com
TERRY MINARIK

CONFLUENCE

SHEET INDEX

SHEET NO.	SHEET TITLE
G001	COVER SHEET
	CIVIL SHEETS
01	COVER
02	EXISTING CONDITIONS
03	OVERALL SITE PLAN
04	PARK SITE & UTILITY CONSTRUCTION PLAN
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09	DETAILS
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12	TEMPORARY EROSION CONTROL PLAN
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L211	SITE LAYOUT PLAN - ENLARGEMENT
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L214	BIKE SKILLS LAYOUT PLAN
L410	PLANTING PLAN
L411	PLANTING PLAN
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L511	SITE DETAILS
L512	SITE DETAILS
L513	SITE DETAILS
L550	PLANTING DETAILS

VICINITY MAP



ISSUED FOR
95% CD SET
4/15/2024

Know what's below. Call before you dig.

COVER SHEET

CONFLUENCE PROJECT # 23551

G001

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File Location: N:\2023\23551_Jackson Commons Park Implementation\23551_WORKING\AUTOCAD\SHEETS\23551 G001 Cover Sheet / Drawn by: XX / Checked by: XX

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CONSTRUCTION DOCUMENTS

FOR

SITE IMPROVEMENTS

FOR

JACKSON COMMONS PARK

SHAKOPEE, MN



Vicinity Map
(NOT TO SCALE)

PREPARED FOR:

CITY OF SHAKOPEE

JACKSON TOWNSHIP
SHAKOPEE, MN, 55379
CONTACT: MICHAEL KERSKI
PHONE: 952-233-9346
EMAIL: MKERSKI@SHAKOPEEMN.GOV

PREPARED BY:

Westwood

Phone (952) 937-5150
Fax (952) 937-5822
Toll Free (888) 937-5150
12701 Whitewater Drive, Suite #300
Minnetonka, MN 55343
westwoodps.com

Westwood Professional Services, Inc.

PROJECT NUMBER: 0051141.00
CONTACT: RYAN M. BLUHM

SHEET INDEX

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17	MNDOT Erosion Control Details
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19	SWPPP Notes
20	SWPPP Maps

NO.	DATE	REVISION	SHEETS
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CONSTRUCTION DOCUMENTS
FOR
SITE IMPROVEMENTS
FOR
JACKSON COMMONS PARK
SHAKOPEE, MN

INITIAL SUBMITTAL DATE: 04/15/24 SHEET: 01 OF 20

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Common Ground Alliance

WINDERMERE

HIGHVIEW PARK PHASE 1

130TH STREET W

MARYSTOWN RD

ZUMBRO AVE

RAINIER DRIVE

HIGHVIEW PARK PHASE 1

EXISTING POND

EXISTING POND

SURVEYED EDGE OF WATER

SURVEYED EDGE OF WATER

OUTLOT F

Proposed Right of Entry Easement

100 ft Highway Easement per Doc No. 61475 (Parcel No. 17A)

Highway Easement per Doc No. 264411

35 ft Proposed Drainage & Utility Easement

50 ft Pipeline Easement per Doc No. 161703

20 ft Easement in favor of the City of Shakopee per Doc No. 181175

Easement in favor of U.S. West Communications per Doc No. 282413

JACKSON TOWNSHIP PARK SIGN

FIBER OPTIC

ELECTRICAL

NATURAL GAS

LEGEND

- SANITARY MANHOLE
- STORM MANHOLE
- BEEHIVE CATCH BASIN
- CATCH BASIN
- FLARED END SECTION
- HYDRANT
- GATE VALVE
- MONITORING WELL
- BOUNDARY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- SECTION LINE
- TREE LINE
- GAS — GAS LINE
- FUG — POWER UNDERGROUND
- SAN — SANITARY SEWER
- STO — STORM SEWER
- WAT — WATERMAIN
- FO — FIBER OPTIC
- X — FENCE LINE
- CURB & GUTTER
- CONCRETE SURFACE
- BITUMINOUS SURFACE
- GRAVEL SURFACE
- FOUND MONUMENT (SEE LABEL)
- CAST IRON MONUMENT (SEE LABEL)

1" = 120'

0' 120' 240' 360'

CONSTRUCTION DOCUMENTS

N:\0051141.00\DWG\CIVIL\PARK PLAN\0051141.00C EXF01.DWG

JACKSON COMMONS PARK

DESIGNED: #
CHECKED: #
DRAWN: #
HORIZONTAL SCALE: 120'
VERTICAL SCALE: 24' OR 12'

INITIAL ISSUE: 04/15/24
REVISIONS:
1 . .
2 . .
3 . .
4 . .
5 . .

PREPARED FOR:

CITY OF SHAKOPEE
JACKSON TOWNSHIP
SHAKOPEE, MN, 55379

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA

CHRIS AMBOURN
DATE: 05/03/24 LICENSE NO. 43055

JACKSON COMMONS PARK
SHAKOPEE, MN

Westwood
Phone (952) 937-5150 12701 Whitewater Drive, Suite #300
Fax (952) 937-5822 Minnetonka, MN 55343
Toll Free (888) 937-5150 westwoodps.com
Westwood Professional Services, Inc.

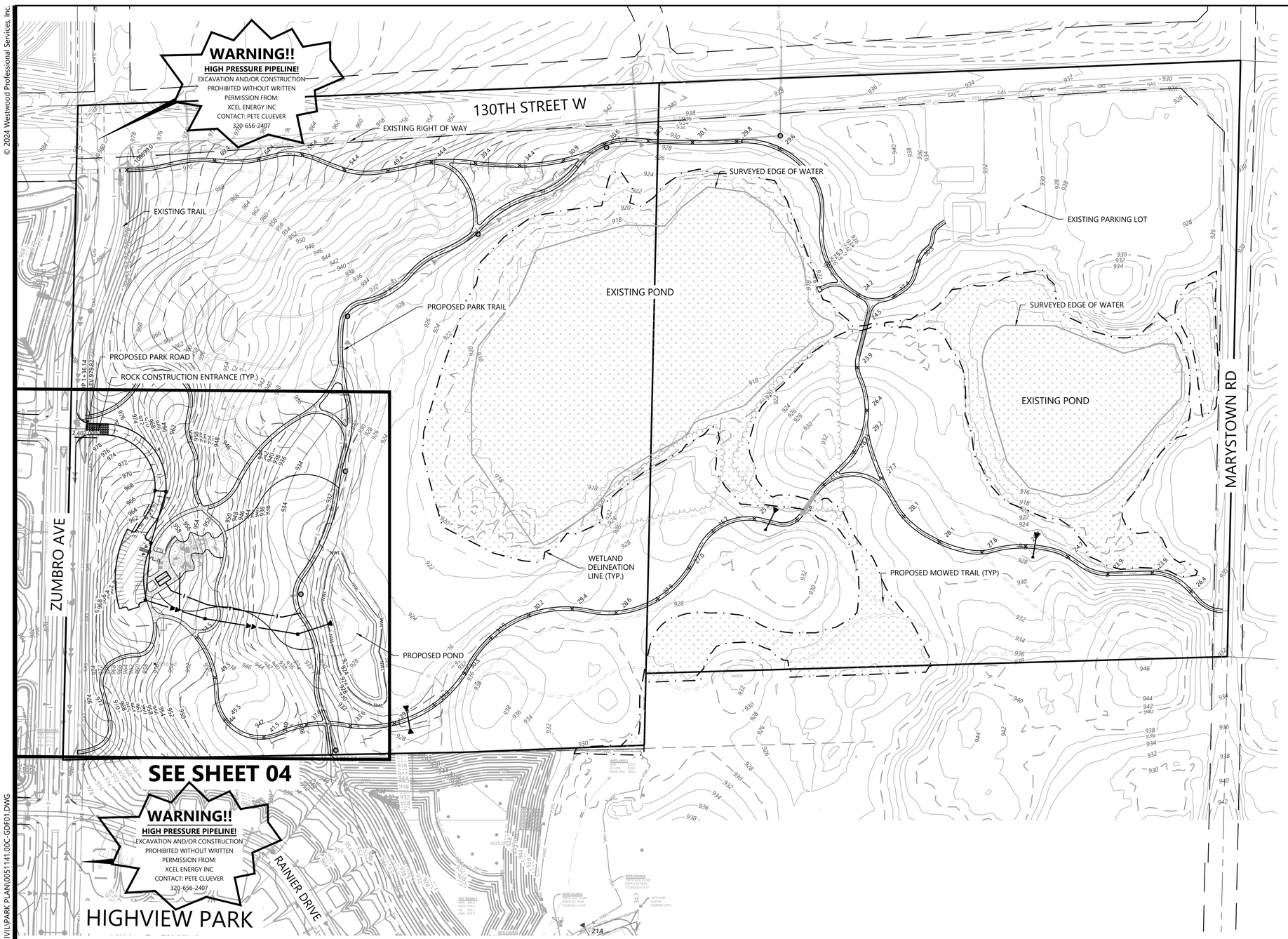
EXISTING CONDITIONS

PROJECT NUMBER: 0051141.00

SHEET NUMBER: 02 OF 20

DATE: 05/03/24

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811 or call811.com
Common Ground Alliance

OVERALL UTILITY LEGEND

EXISTING	PROPOSED	FUTURE	
SAN			SANITARY SEWER
			STORM SEWER
DT			DRAIN TILE
WAT			WATER MAIN
WAT			HYDRANT

GRADING & DRAINAGE NOTES

1. ALL CONTOURS AND SPOT ELEVATIONS ARE SHOWN TO FINISHED SURFACE/GUTTER GRADES UNLESS OTHERWISE NOTED.
2. REFER TO THE SITE PLAN/RECORD PLAT FOR MOST CURRENT HORIZONTAL SITE DIMENSIONS AND LAYOUT.
3. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF EXISTING UTILITIES AND TOPOGRAPHICAL FEATURES WITH THE OWNERS AND FIELD-VERIFY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM PLAN.
4. ALL CONSTRUCTION SHALL CONFORM TO LOCAL RULES.
5. POSITIVE DRAINAGE FROM THE SITE MUST BE PROVIDED AT ALL TIMES.
6. KEEP HEAVY CONSTRUCTION EQUIPMENT OUT OF THE FILTRATION BASIN AREA TO MINIMIZE SOIL COMPACTION.

EROSION CONTROL NOTES

1. ALL SILT FENCE AND OTHER EROSION CONTROL FEATURES SHALL BE IN-PLACE PRIOR TO ANY EXCAVATION/CONSTRUCTION AND SHALL BE MAINTAINED UNTIL VIABLE TURF OR GROUND COVER HAS BEEN ESTABLISHED. EXISTING SILT FENCE ON-SITE SHALL BE MAINTAINED AND OR REMOVED AND SHALL BE CONSIDERED INCIDENTAL TO THE GRADING CONTRACT. IT IS OF EXTREME IMPORTANCE TO BE AWARE OF CURRENT FIELD CONDITIONS WITH RESPECT TO EROSION CONTROL. TEMPORARY PONDING, DIKES, HAY BALES, ETC., REQUIRED BY THE CITY SHALL BE INCIDENTAL TO THE GRADING CONTRACT.
2. ALL STREETS DISTURBED DURING WORKING HOURS MUST BE CLEANED AT THE END OF EACH WORKING DAY. A ROCK ENTRANCE TO THE SITE MUST BE PROVIDED ACCORDING TO DETAILS TO REDUCE TRACKING OF DIRT ONTO PUBLIC STREETS.
3. REDUNDANT PERIMETER SEDIMENT CONTROLS ARE NECESSARY WHEN SOIL DISTURBANCE IS WITHIN 50 FEET OF SURFACE WATERS. REDUNDANT SEDIMENT CONTROLS COULD INCLUDE:
   - 3.1. TWO ROWS OF SILT FENCE (SEPARATED BY 8 FEET); OR
   - 3.2. SILT FENCE AND A TOPSOIL BERM (STABILIZE BERM WITH MULCH); OR
   - 3.3. SILT FENCE AND FIBER LOGS; OR
   - 3.4. TOPSOIL BERM AND FIBER LOGS (STABILIZE BERM WITH MULCH).
4. REDUNDANT SEDIMENT CONTROLS MUST BE INSTALLED PRIOR TO DISTURBING WITHIN 50 FEET OF THE SURFACE WATER.
5. ALL DISTURBED AREAS WITHOUT PERMANENT IMPERMEABLE SURFACES WILL BE VEGETATED FOR FINAL STABILIZATION. IF EROSION CONTROL BLANKET IS NOT REQUIRED, THE SITE SHALL BE STABILIZED WITH MN/DOT SEED MIXTURE 250 APPLIED AT 70 LBS/ACRE AND TYPE-1 MULCH APPLIED AT 2 TONS/ACRE IN ACCORDANCE WITH MN/DOT SPECIFICATION 2575.
6. PERMANENT VEGETATION ESTABLISHMENT PERMANENT TURF SHALL FOLLOW THE RECOMMENDATIONS PER NOTES AND SPECIFICATIONS IN THE GRADING PLAN. SEEDING THAT IS TO OCCUR AFTER OCTOBER 20TH SHALL CONFORM TO THE MN/DOT SPECIFICATIONS FOR DORMANT SEEDING PER THE MN/DOT SEEDING MANUAL 2007.
7. ALL BACKYARD DRAINAGE SWALES MUST BE SODDED & PROTECTED FROM EROSION AT CONCLUSION OF SITE GRADING ACTIVITIES.

GENERAL UTILITY NOTES

1. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE OWNER OF ANY DIFFERENCES.
2. UNLESS OTHERWISE NOTED, ALL MATERIALS, CONST. TECHNIQUES AND TESTING SHALL CONFORM TO THE 2018 ED. OF THE "STANDARD UTILITIES SPECIFICATIONS FOR WATER MAIN AND SERVICE LINE INSTALLATION AND SANITARY SEWER AND STORM SEWER INSTALLATION BY THE CITY ENGINEERING ASSOCIATION OF MINN." AND TO THE "STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION" MINN. DEPT. OF TRANS., 2020 EDITION AND SUPPLEMENTAL SPECIFICATIONS SEPTEMBER 2022. THE CONTRACTOR SHALL BE REQUIRED TO FOLLOW ALL PROCEDURES AS OUTLINED BY THE LOCAL AGENCY.
3. THE CONTRACTOR SHALL RECEIVE THE NECESSARY PERMITS FOR ALL WORK OUTSIDE OF THE PROPERTY LIMITS.
4. VERIFY EXISTING INVERT LOCATION & ELEVATION PRIOR TO BEGINNING CONSTRUCTION.
5. THE CONTRACTOR SHALL CONTACT "GOPHER STATE ONE CALL" FOR FOR UTILITY LOCATIONS PRIOR TO UTILITY INSTALLATION.

1" = 120'
0' 120' 240' 360'

CONSTRUCTION DOCUMENTS

N:\0051141.00\DWG\CIVIL\PARK PLAN\0051141.00C-GDF01.DWG

JACKSON COMMONS PARK

DESIGNED:	CLJ
CHECKED:	RDR
DRAWN:	CLM
HORIZONTAL SCALE:	120'
VERTICAL SCALE:	24' OR 12'

INITIAL ISSUE: 04/15/24
REVISIONS:
1 . .
2 . .
3 . .
4 . .
5 . .

PREPARED FOR:

CITY OF SHAKOPEE
JACKSON TOWNSHIP
SHAKOPEE, MN, 55379

I HEREBY CERTIFY THAT THIS PLAN 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

RYAN M. BLUHM
DATE: 05/03/24 LICENSE NO. 41257

JACKSON COMMONS PARK
SHAKOPEE, MN

Westwood
Phone (952) 937-5150 12701 Whitewater Drive, Suite #300
Fax (952) 937-5822 Minnetonka, MN 55343
Toll Free (888) 937-5150 westwoodps.com
Westwood Professional Services, Inc.

OVERALL SITE PLAN

PROJECT NUMBER: 0051141.00

SHEET NUMBER: 03 OF 20
DATE: 05/03/24

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HIGH PRESSURE PIPELINE (SEE SHEET 03)

PROPOSED PARK ROAD (SEE SHEET 09 FOR DETAIL)

CBMH-30
RE=965.60
IE=961.60 (12" E)
D=4.0

CBMH-31
RE=965.60
IE=961.98 (12" W)
IE=961.35 (15" S)
D=4.2

25 LF-12" RCP @ 1.55%

122 LF-15" RCP @ 5.13%

CBMH-32
RE=959.10
IE=955.10 (15" N)
IE=955.10 (15" S)
D=4.0

128 LF-15" RCP @ 1.40%

CBMH-33
RE=957.30
IE=953.30 (15" N)
IE=953.30 (15" E)
D=4.0

141 LF-15" RCP @ 3.41%

212 LF-15" RCP @ 4.71%

74 LF-18" RCP @ 1.00%

CBMH-34
RE=952.50
IE=948.50 (15" W)
IE=938.50 (15" E)
D=14.0

CBMH-35
RE=932.50
IE=928.50 (15" W)

15" FES-10
4.8 CU YD CLASS III RIPRAP
IE=925.50

PROPOSED POND
NWL = 925.5
100 HWL = 925.6
TOP OF BERM = 926.1
BOTTOM = 920.0

PLAYGROUND SUB & FINISHED GRADE TO BE VERIFIED WITH PLAYGROUND MANUFACTURER/INSTALLER

PROPOSED GRADING SHOWN COMPLETED BY OTHERS

PROPOSED PARK IMPROVEMENTS

PROPOSED 10' BIT TRAIL (SEE SHEET 09 FOR CITY DETAIL)

4" PERFORATED DRAINTILE

PROPOSED 6' CONC. TRAIL (SEE SHEET 09 FOR CITY DETAIL)

PROPOSED 1" COPPER WATER SERVICE

PROPOSED 8' CONC. TRAIL (SEE SHEET 09 FOR CITY DETAIL)

EOF
× 25.5

ZUMBRO AVENUE

ZUMBRO AVE

LEGEND

EXISTING	PROPOSED	
		PROPERTY LINE
SB-19	SB-19	SOIL BORING LOCATION
980	980	INDEX CONTOUR
982	982	INTERVAL CONTOUR
× 900.00	× 900.00	SPOT ELEVATION
	× HP/LP 900.00	HIGH/LOW POINT
	× CL-CL 900.00	CL-CL ELEVATION
	0.00%	FLOW DIRECTION
	TW=XXX.XX BW=XXX.XX	TOP AND BOTTOM OF RETAINING WALL
	E.O.F. ×	EMERGENCY OVERFLOW
	X.XX%	PROPOSED STREET PROFILE GRADE
STO		STORM SEWER
		TREE LINE
	TPF	TREE PROTECTION FENCE
		RETAINING WALL (MODULAR BLOCK)
	GL	GRADING LIMITS
	SF	SILT FENCE
	POST-SF	SILT FENCE-POST GRADING
	HDSF	HEAVY DUTY SILT FENCE
	RSC	REDUNDANT SEDIMENT CONTROL
		INLET PROTECTION
		EROSION CONTROL CHECKS/BIOROLLS
		ROCK CONSTRUCTION ENTRANCE
		EROSION CONTROL BLANKET
		TURF REINFORCEMENT MAT
		POND NORMAL WATER LEVEL
		WETLAND LINE
		WETLAND FILL
		WETLAND BUFFER
		POND ACCESS MAINTENANCE BENCH
		WETLAND BUFFER LIMITS
		WETLAND BUFFER MONUMENT
	DND	DO NOT DISTURB

1" = 30'
0' 30' 60' 90'

CONSTRUCTION DOCUMENTS

N:\0051141.00\DWG\CIVIL\PARK PLAN\0051141.00C-UTF01.DWG

JACKSON COMMONS PARK

DESIGNED:	CLJ
CHECKED:	RDR
DRAWN:	CLM
HORIZONTAL SCALE:	30'
VERTICAL SCALE:	6' OR 3'

INITIAL ISSUE: 04/15/24
REVISIONS:
1 . .
2 . .
3 . .
4 . .
5 . .

PREPARED FOR:

CITY OF SHAKOPEE
JACKSON TOWNSHIP
SHAKOPEE, MN, 55379

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RYAN M. BLUHM
DATE: 05/03/24 LICENSE NO. 41257

JACKSON COMMONS PARK
SHAKOPEE, MN

Westwood
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Fax (952) 937-5822 Minnetonka, MN 55343
Toll Free (888) 937-5150 westwoodps.com
Westwood Professional Services, Inc.

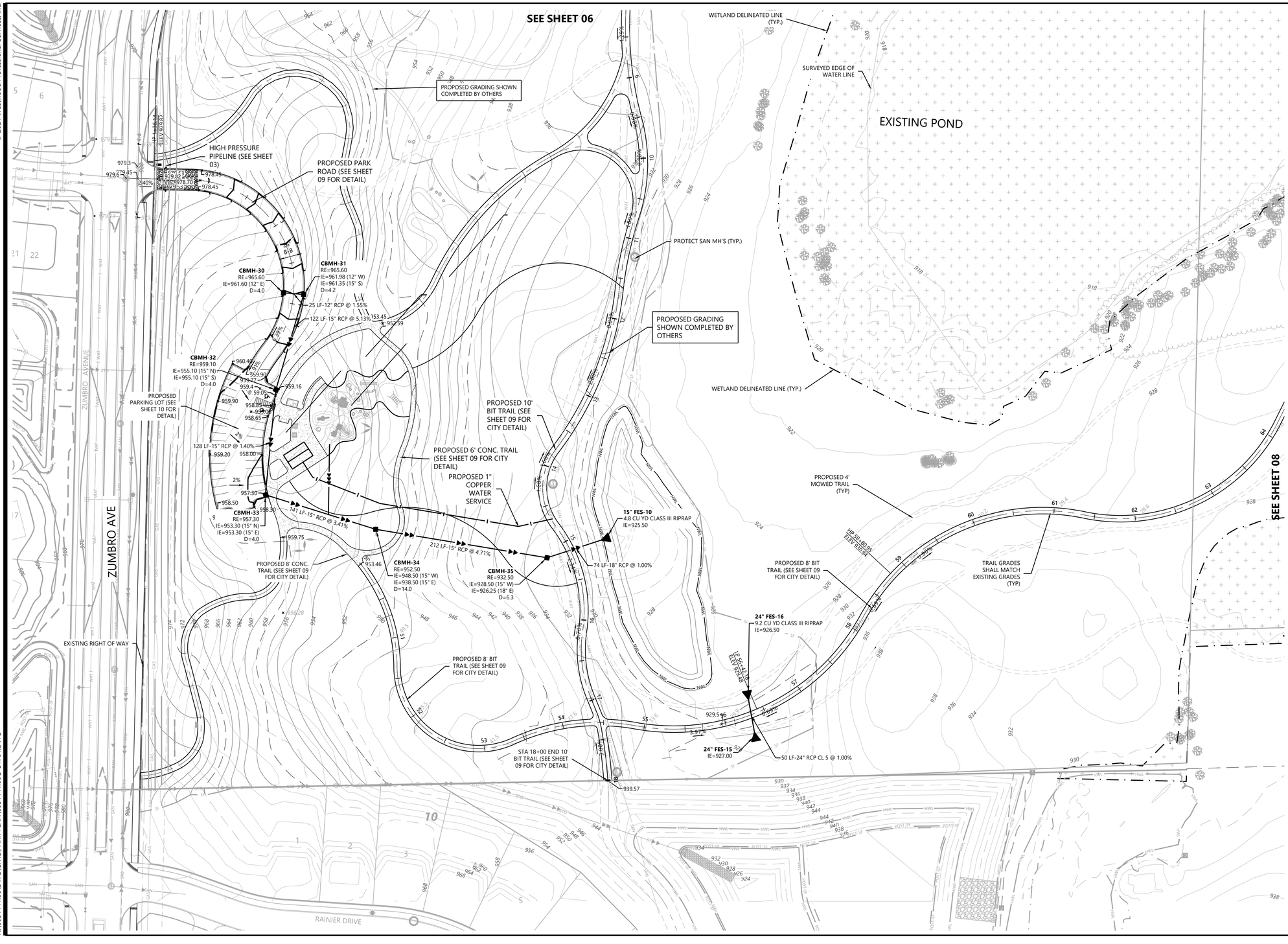
PARK SITE & UTILITY CONSTRUCTION PLAN

PROJECT NUMBER: 0051141.00

SHEET NUMBER: 04 OF 20
DATE: 05/03/24

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GRADING & EROSION CONTROL LEGEND

EXISTING	PROPOSED	
		PROPERTY LINE
SB-19	SB-19	SOIL BORING LOCATION
980	980	INDEX CONTOUR
982	982	INTERVAL CONTOUR
× 900.00	× 900.00	SPOT ELEVATION
	× HP/LP 900.00	HIGH/LOW POINT
	× CL-CL 900.00	CL-CL ELEVATION
	0.00%	FLOW DIRECTION
	TW=XXX.XX BW=XXX.XX	TOP AND BOTTOM OF RETAINING WALL
	E.O.F.	EMERGENCY OVERFLOW
	X.XX%	PROPOSED STREET PROFILE GRADE
STO		STORM SEWER
		TREE LINE
	TPF	TREE PROTECTION FENCE
		RETAINING WALL (MODULAR BLOCK)
	GL	GRADING LIMITS
	SF	SILT FENCE
	POST-SF	SILT FENCE-POST GRADING
	HDSF	HEAVY DUTY SILT FENCE
	RSC	REDUNDANT SEDIMENT CONTROL
		INLET PROTECTION
		EROSION CONTROL CHECKS/BIOROLLS
		ROCK CONSTRUCTION ENTRANCE
		EROSION CONTROL BLANKET
		TURF REINFORCEMENT MAT
		POND NORMAL WATER LEVEL
		WETLAND LINE
		WETLAND FILL
		WETLAND BUFFER
		POND ACCESS MAINTENANCE BENCH
		WETLAND BUFFER LIMITS
	DND	WETLAND BUFFER MONUMENT
		DO NOT DISTURB

N

1" = 60'

0' 60' 120' 180'

CONSTRUCTION DOCUMENTS

N:\0051141.00\DWG\CIVIL\PARK PLAN\0051141.00C-UTF01.DWG

JACKSON COMMONS PARK

DESIGNED:	CLJ
CHECKED:	RDR
DRAWN:	CLM
HORIZONTAL SCALE:	60'
VERTICAL SCALE:	12' OR 6'

INITIAL ISSUE: 04/15/24
REVISIONS:
1 . .
2 . .
3 . .
4 . .
5 . .

PREPARED FOR:

CITY OF SHAKOPEE
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PARK SITE & UTILITY CONSTRUCTION PLAN

PROJECT NUMBER: 0051141.00

SHEET NUMBER: 05 OF 20

DATE: 05/03/24

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130TH ST W

ZUMBRO AVE

EXISTING RIGHT OF WAY

EXISTING TRAIL

PROPOSED 8' BIT TRAIL (SEE SHEET 09 FOR CITY DETAIL)

PROPOSED 4' MOWED TRAIL (TYP)

TRAIL GRADES SHALL MATCH EXISTING GRADES (TYP)

STA 1+00 BEGIN 10' BIT TRAIL . (SEE SHEET 09 FOR CITY DETAIL)

PROPOSED 10' BIT TRAIL (SEE SHEET 09 FOR CITY DETAIL)

PROTECT SAN MH'S (TYP.)

WETLAND DELINEATED LINE (TYP.)

SURVEYED EDGE OF WATER LINE

EXISTING POND

PROPOSED GRADING SHOWN COMPLETED BY OTHERS

HIGH PRESSURE PIPELINE (SEE SHEET 03)

PROPOSED PARK ROAD (SEE SHEET 09 FOR DETAIL)

HP 1-36-14
ELEV 979.82

CBMH-30
RE=965.60
IE=961.60 (12" E)
D=4.0

CBMH-31
RE=965.60
IE=961.98 (12" W)
IE=961.35 (15" S)
D=4.2

25 LF-12" RCP @ 1.55%

SEE SHEET 05

SEE SHEET 07

GRADING & EROSION CONTROL LEGEND

EXISTING	PROPOSED	
		PROPERTY LINE
SB-19	SB-19	SOIL BORING LOCATION
980	980	INDEX CONTOUR
982	982	INTERVAL CONTOUR
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	× CL-CL 900.00	CL-CL ELEVATION
	0.00%	FLOW DIRECTION
	TW=XXX.XX BW=XXX.XX	TOP AND BOTTOM OF RETAINING WALL
	E.O.F.	EMERGENCY OVERFLOW
	X.XX%	PROPOSED STREET PROFILE GRADE
STO		STORM SEWER
		TREE LINE
TPF	TPF	TREE PROTECTION FENCE
		RETAINING WALL (MODULAR BLOCK)
GL	GL	GRADING LIMITS
SF	SF	SILT FENCE
POST-SF	POST-SF	SILT FENCE-POST GRADING
HDSF	HDSF	HEAVY DUTY SILT FENCE
RSC	RSC	REDUNDANT SEDIMENT CONTROL
IP	IP	INLET PROTECTION
		EROSION CONTROL CHECKS/BIOROLLS
		ROCK CONSTRUCTION ENTRANCE
		EROSION CONTROL BLANKET
		TURF REINFORCEMENT MAT
		POND NORMAL WATER LEVEL
		WETLAND LINE
		WETLAND FILL
		WETLAND BUFFER
		POND ACCESS MAINTENANCE BENCH
		WETLAND BUFFER LIMITS
	DND	WETLAND BUFFER MONUMENT
		DO NOT DISTURB

1" = 50'

0' 50' 100' 150'

CONSTRUCTION DOCUMENTS

N:\0051141.00\DWG\CIVIL\PARK PLAN\0051141.00C-UTF01.DWG

JACKSON COMMONS PARK

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CHECKED:	RDR
DRAWN:	CLM
HORIZONTAL SCALE:	50'
VERTICAL SCALE:	10' OR 5'

INITIAL ISSUE: 04/15/24
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SHAKOPEE, MN

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Toll Free (888) 937-5150 westwoodps.com
Westwood Professional Services, Inc.

PARK SITE & UTILITY CONSTRUCTION PLAN

PROJECT NUMBER: 0051141.00

SHEET NUMBER: 06 OF 20

DATE: 05/03/24

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Call 48 Hours before digging:
811 or call811.com
Common Ground Alliance

130TH ST W

EXISTING RIGHT OF WAY

PROTECT SAN MH'S (TYP.)

PROPOSED 8' BIT TRAIL (SEE SHEET 09 FOR CITY DETAIL)

SURVEYED EDGE OF WATER LINE

EXISTING POND

TRAIL GRADES SHALL MATCH EXISTING GRADES (TYP)

LP 71+39.24
ELEV 923.39

SILT FENCE (TYP.)

PROPOSED BOARDWALK (TYP.)

SURVEYED EDGE OF WATER LINE

WETLAND DELINEATED LINE (TYP.)

SURVEYED EDGE OF WATER LINE

LP 68+85.89
ELEV 928.84

DURING INSTALLATION OF TRAIL THROUGH NON-GRADED AREAS, CONTRACTOR SHALL INSTALL BIOROLLS ON THE DOWNHILL SIDE TO PREVENT EROSION (TYP.)

15" FES-11
4.8 CU YD CLASS III RIPRAP

LP 33+87.06
EV 927.70

SEE SHEET 06

SEE SHEET 08

GRADING & EROSION CONTROL LEGEND

EXISTING	PROPOSED	
		PROPERTY LINE
SB-19	SB-19	SOIL BORING LOCATION
980	980	INDEX CONTOUR
982	982	INTERVAL CONTOUR
× 900.00	× 900.00	SPOT ELEVATION
	× HP/LP 900.00	HIGH/LOW POINT
	× CL-CL 900.00	CL-CL ELEVATION
	0.00%	FLOW DIRECTION
	TW=XXX.XX BW=XXX.XX	TOP AND BOTTOM OF RETAINING WALL
	E.O.F.	EMERGENCY OVERFLOW
	X.XX%	PROPOSED STREET PROFILE GRADE
STO		STORM SEWER
		TREE LINE
TPF		TREE PROTECTION FENCE
		RETAINING WALL (MODULAR BLOCK)
GL		GRADING LIMITS
SF		SILT FENCE
POST-SF		SILT FENCE-POST GRADING
HDSF		HEAVY DUTY SILT FENCE
RSC		REDUNDANT SEDIMENT CONTROL
		INLET PROTECTION
		EROSION CONTROL CHECKS/BIOROLLS
		ROCK CONSTRUCTION ENTRANCE
		EROSION CONTROL BLANKET
		TURF REINFORCEMENT MAT
		POND NORMAL WATER LEVEL
		WETLAND LINE
		WETLAND FILL
		WETLAND BUFFER
		POND ACCESS MAINTENANCE BENCH
		WETLAND BUFFER LIMITS
	DND	WETLAND BUFFER MONUMENT
		DO NOT DISTURB

1" = 60

0' 60' 100' 150'

CONSTRUCTION DOCUMENTS

N:\0051141.00\DWG\CIVIL\PARK PLAN\0051141.00C-UTF01.DWG

JACKSON COMMONS PARK

DESIGNED:	CLJ
CHECKED:	RDR
DRAWN:	CLM
HORIZONTAL SCALE:	50'
VERTICAL SCALE:	10' OR 5'

INITIAL ISSUE: 04/15/24
REVISIONS:
1 . .
2 . .
3 . .
4 . .
5 . .

PREPARED FOR:

CITY OF SHAKOPEE
JACKSON TOWNSHIP
SHAKOPEE, MN, 55379

I HEREBY CERTIFY THAT THIS PLAN 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

RYAN M. BLUHM
DATE: 05/03/24 LICENSE NO. 41257

JACKSON COMMONS PARK
SHAKOPEE, MN

Westwood
Phone (952) 937-5150 12701 Whitewater Drive, Suite #300
Fax (952) 937-5822 Minnetonka, MN 55343
Toll Free (888) 937-5150 westwoodps.com
Westwood Professional Services, Inc.

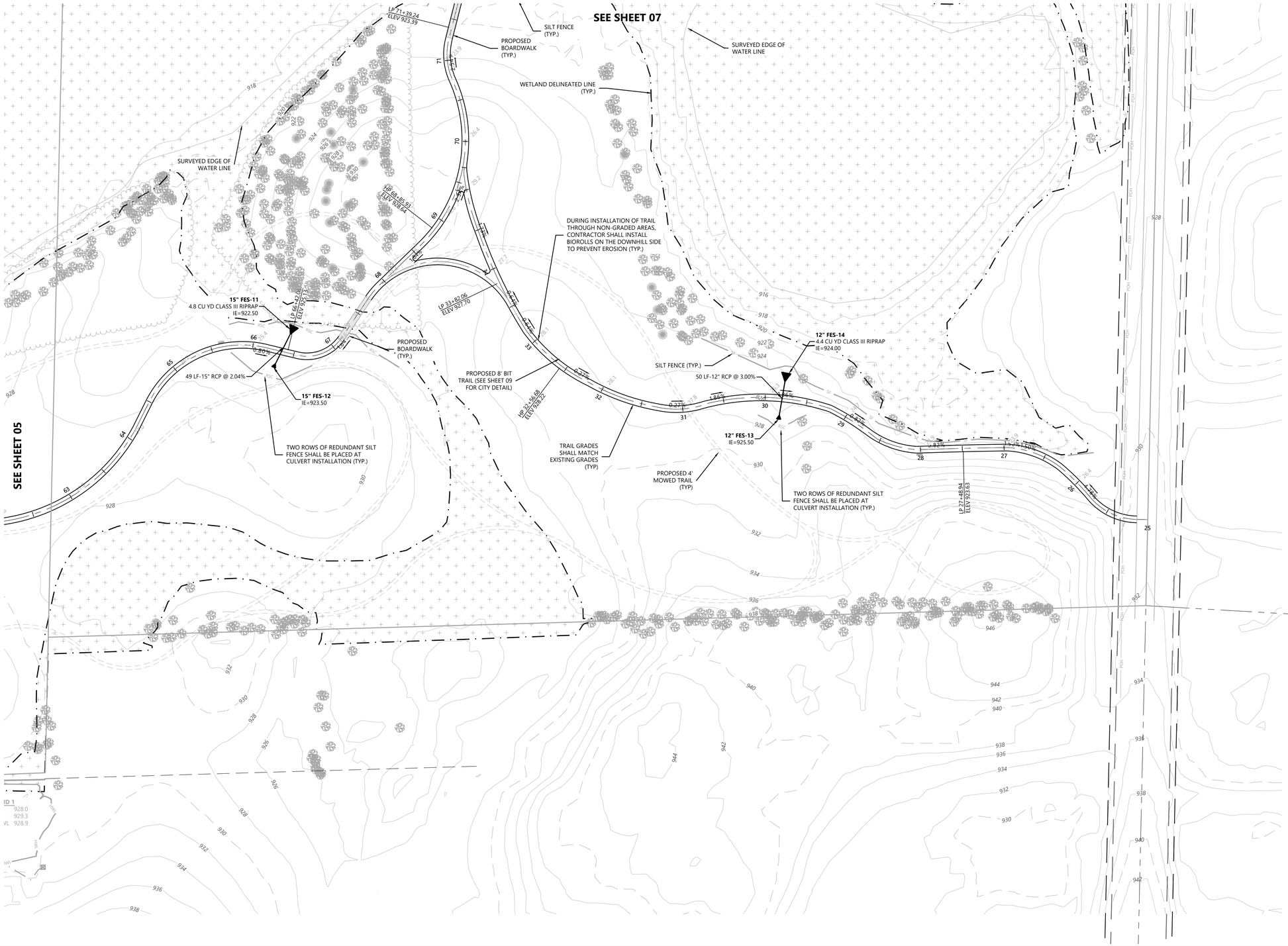
PARK SITE & UTILITY CONSTRUCTION PLAN

PROJECT NUMBER: 0051141.00

SHEET NUMBER: 07 OF 20
DATE: 05/03/24

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DESIGNED: CLJ
CHECKED: RDR
DRAWN: CLM
HORIZONTAL SCALE: 50'
VERTICAL SCALE: 10' OR 5'

INITIAL ISSUE: 04/15/24
REVISIONS:
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PREPARED FOR:

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SHAKOPEE, MN, 55379

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westwoodps.com
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PARK SITE & UTILITY CONSTRUCTION PLAN

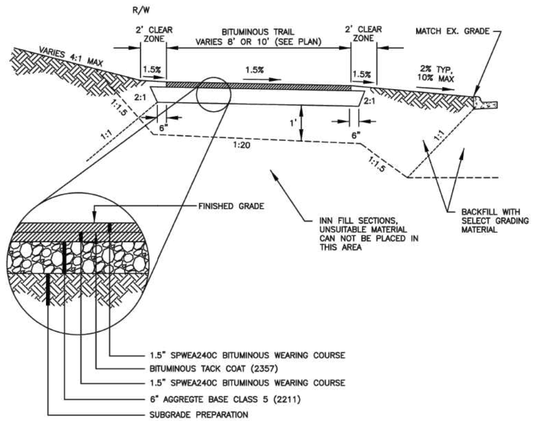
PROJECT NUMBER: 0051141.00

SHEET NUMBER: 08 OF 20

DATE: 05/03/24

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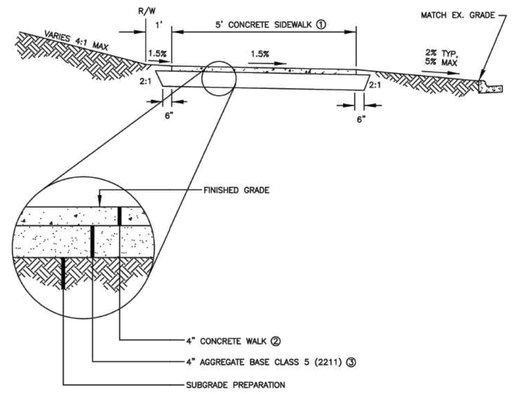
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NOTE:

1. SAND AND/OR GEOTEXTILE FABRIC TO BE INCLUDED AS REQUIRED BY THE CITY ENGINEER.

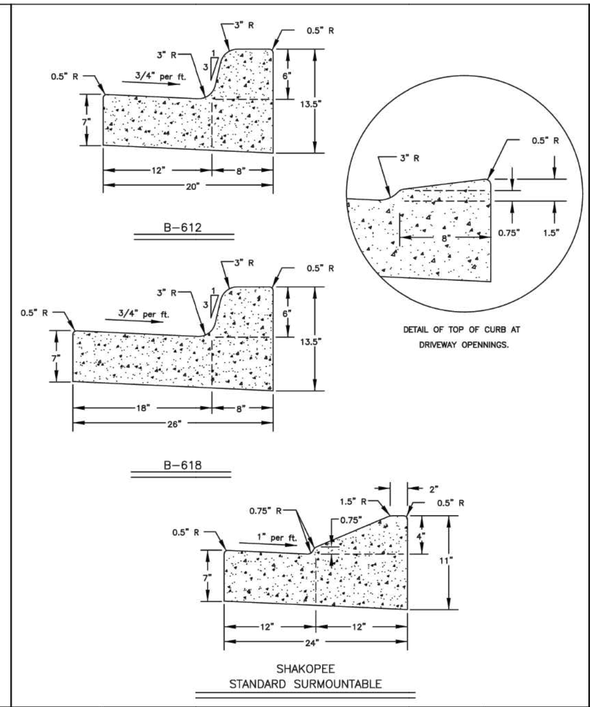
BITUMINOUS TRAIL	APPROVED: 01/2023
Sam L Ebbing	REVISED: 03/2020
PUBLIC WORKS DIRECTOR/CITY ENGINEER	DETAIL NO: 4002



SIDEWALK DIMENSIONS:

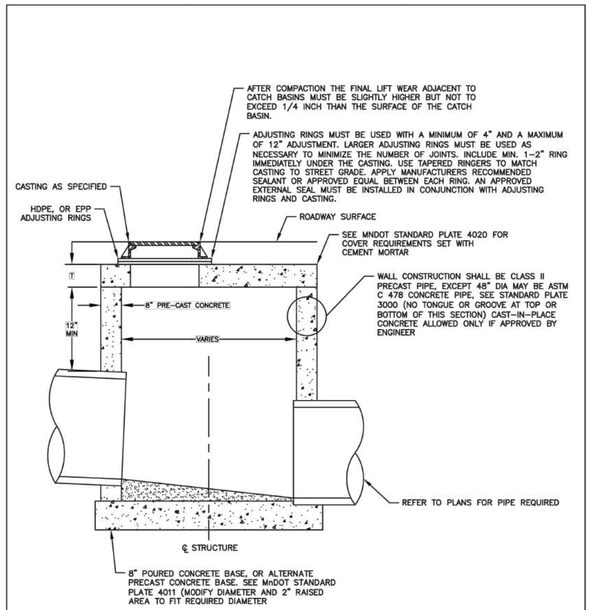
① WIDTH – 5' (NEW) OR MATCH EXISTING (SPOT REPAIRS)
② DEPTH – 4" TYPICAL, 6" AT RESIDENTIAL DRIVEWAYS
6" IN NEW DEVELOPMENTS WHERE SURMOUNTABLE CURB IS CONSTRUCTED AND RESIDENTIAL DRIVEWAYS COULD BE CONSTRUCTED.
8" AT COMMERCIAL DRIVEWAYS
③ BASE DEPTH – 12" GRANULAR BORROW OR 4" OF CLASS 5 AGGREGATE
④ CONTRACTION JOINTS – 5' INTERVALS (APPROX.)
⑤ EXPANSION JOINTS – 100' INTERVALS (MAX.)

TYPICAL SIDEWALK	APPROVED: 01/2023
Sam L Ebbing	REVISED: 05/2021
PUBLIC WORKS DIRECTOR/CITY ENGINEER	DETAIL NO: 4001


3" R
0.5" R
3/4" per ft.
6"
13.5"
7"
12"
8"
20"
B-612
18"
26"
B-618
1.5" R
2"
0.75" R
0.75"
1" per ft.
4"
11"
24"
SHAKOPEE
STANDARD SURMOUNTABLE
0.75"
1.5"

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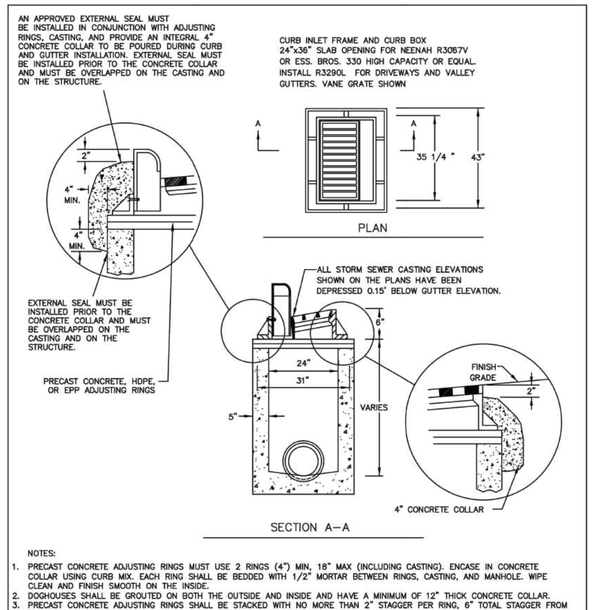
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NOTES:

1. REFER TO STANDARD PLANS FOR HEIGHT AND DIAMETER REQUIRED.
2. REINFORCEMENT AS PER SPEC. 3301, GRADE 60.
3. DOGHOUSES SHALL BE GROUTED ON BOTH THE OUTSIDE AND INSIDE AND HAVE A MINIMUM OF 12" THICK CONCRETE COLLAR.

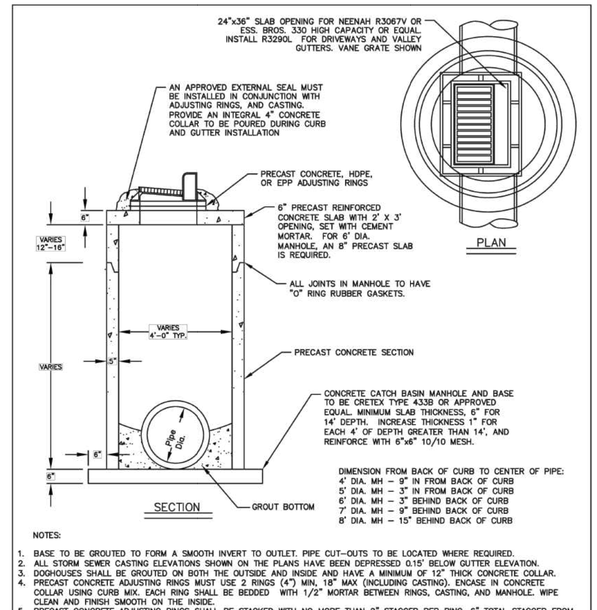
SHAKOPEE PUBLIC WORKS DEPARTMENT	STANDARD MANHOLE FOR STORM SEWER	APPROVED: 01/2023
	Sam L Eddy	REVISED: 01/2023
	PUBLIC WORKS DIRECTOR/CITY ENGINEER	DETAIL NO: 3001



NOTES:

1. PRECAST CONCRETE ADJUSTING RINGS MUST USE 2 RINGS (4") MIN, 18" MAX (INCLUDING CASTING). ENCASE IN CONCRETE COLLAR USING CURB MIX. EACH RING SHALL BE BEDDED WITH 1/2" MORTAR BETWEEN RINGS, CASTING, AND MANHOLE. WIPE CLEAN AND FINISH SMOOTH ON THE INSIDE.
2. DOGHOUSES SHALL BE GROUTED ON BOTH THE OUTSIDE AND INSIDE AND HAVE A MINIMUM OF 12" THICK CONCRETE COLLAR.
3. PRECAST CONCRETE ADJUSTING RINGS SHALL BE STACKED WITH NO MORE THAN 2" STAGGER PER RING, 8" TOTAL STAGGER FROM THE TOP SLAB OF STRUCTURE TO THE CASTING.
4. HDPE AND EPP ADJUSTING RINGS SHALL BE STACKED WITH NO MORE THAN 1" STAGGER PER RING, WITH A MAX OF 4" STAGGER FROM THE TOP SLAB OF STRUCTURE TO THE CASTING.
5. HDPE AND EPP ADJUSTING RINGS SHALL BE INSTALLED WITH MANUFACTURERS RECOMMENDED SEALANT OR APPROVED EQUAL BETWEEN EACH RING.
6. POUR A 3" TO 4" CONCRETE COLLAR AROUND RINGS EXTENDING FROM THE CASTING TO THE PRECAST SECTION.
7. REFER TO PLANS FOR THE PIPE REQUIRED.
8. AFTER COMPACTION THE FINAL LIFT WEAR ADJACENT TO CATCH BASINS MUST BE SLIGHTLY HIGHER BUT NOT TO EXCEED 1/4 INCH THAN THE SURFACE OF THE CATCH BASIN.

SHAKOPEE PUBLIC WORKS DEPARTMENT	2' X 3' CATCH BASIN	APPROVED: 01/2023
	Sam L Eddy	REVISED: 01/2023
	PUBLIC WORKS DIRECTOR/CITY ENGINEER	DETAIL NO: 3002



NOTES:

1. BASE TO BE GROUTED TO FORM A SMOOTH INVERT TO OUTLET. PIPE CUT-OUTS TO BE LOCATED WHERE REQUIRED.
2. ALL STORM SEWER CASTING ELEVATIONS SHOWN ON THE PLANS HAVE BEEN DEPRESSED 0.15' BELOW GUTTER ELEVATION.
3. DOGHOUSES SHALL BE GROUTED ON BOTH THE OUTSIDE AND INSIDE AND HAVE A MINIMUM OF 12" THICK CONCRETE COLLAR.
4. PRECAST CONCRETE ADJUSTING RINGS MUST USE 2 RINGS (4") MIN, 18" MAX (INCLUDING CASTING). ENCASE IN CONCRETE COLLAR USING CURB MIX. EACH RING SHALL BE BEDDED WITH 1/2" MORTAR BETWEEN RINGS, CASTING, AND MANHOLE. WIPE CLEAN AND FINISH SMOOTH ON THE INSIDE.
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7. HDPE AND EPP ADJUSTING RINGS SHALL BE INSTALLED WITH MANUFACTURERS RECOMMENDED SEALANT OR APPROVED EQUAL BETWEEN EACH RING.
8. REFER TO PLANS FOR THE PIPE REQUIRED.
9. AFTER COMPACTION THE FINAL LIFT WEAR ADJACENT TO CATCH BASINS MUST BE SLIGHTLY HIGHER BUT NOT TO EXCEED 1/4 INCH THAN THE SURFACE OF THE CATCH BASIN.

SHAKOPEE PUBLIC WORKS DEPARTMENT	CATCH BASIN MANHOLE	APPROVED: 01/2023
	Sam L Eddy	REVISED: 01/2023
	PUBLIC WORKS DIRECTOR/CITY ENGINEER	DETAIL NO: 3003

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JACKSON COMMONS PARK

DESIGNED: CLJ
CHECKED: RDR
DRAWN: CLM
HORIZONTAL SCALE: ###
VERTICAL SCALE: ### OR ##

INITIAL ISSUE: 04/15/24
REVISIONS:
1 . .
2 . .
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5 . .

PREPARED FOR:

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JACKSON TOWNSHIP
SHAKOPEE, MN, 55379

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RYAN M. BLUHM
DATE: 05/03/24 LICENSE NO. 41257

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SHAKOPEE, MN

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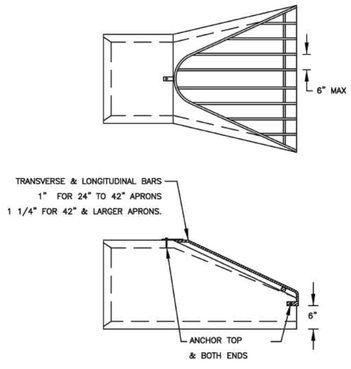
DETAILS

PROJECT NUMBER: 0051141.00

SHEET NUMBER: 10 OF 20
DATE: 05/03/24

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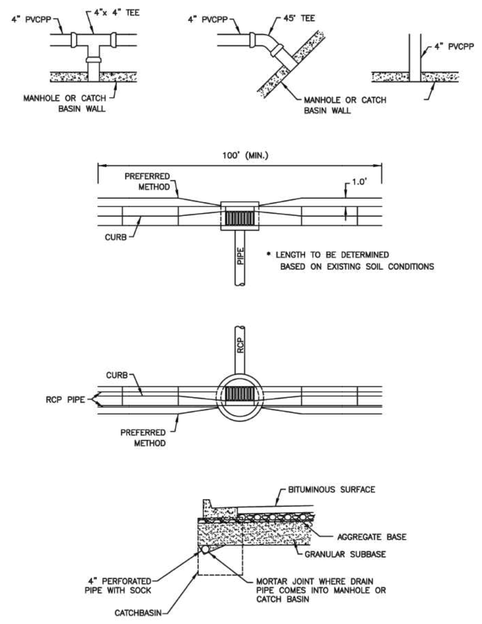
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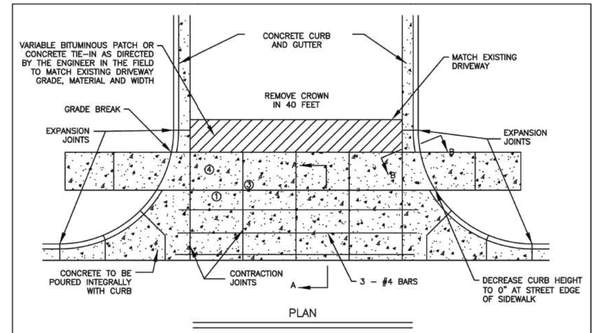
NOTES:

1. REFERENCE MNDOT STANDARD PLATE 3133D FOR RIPRAP DETAILS. ALL RIPRAP SHALL BE FIELDSTONE.
2. TRASH GUARD SHALL BE USED FOR 24" OR GREATER FLARED END.
3. ALL TRASH GUARDS SHALL BE GALVANIZED AFTER FABRICATION PER MNDOT SPEC. 3392 & 3394.
4. TIE LAST 3 PIPE JOINTS. USE 2 GALVANIZED TIE BOLT FASTENERS PER JOINT. INSTALL AT 60° FROM TOP TO BOTTOM OF PIPE.

SHAKOPEE PUBLIC WORKS DEPARTMENT	TRASH GUARD FOR FLARED END SECTION	APPROVED: 01/2023
	Sam L Liebsch	REVISED: 01/2023
	PUBLIC WORKS DIRECTOR/CITY ENGINEER	DETAIL NO: 3006

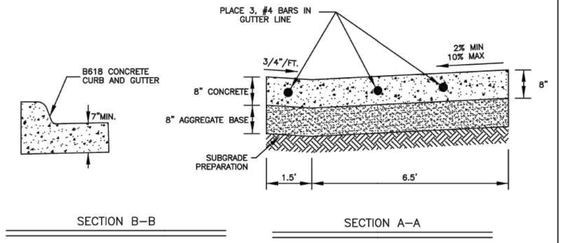


SHAKOPEE PUBLIC WORKS DEPARTMENT	PERFORATED DRAINTILE	APPROVED: 01/2023
	Sam L Liebsch	REVISED: 03/2020
	PUBLIC WORKS DIRECTOR/CITY ENGINEER	DETAIL NO: 3007



NOTES:

1. SPACE CONTROL JOINTS SUCH THAT MAXIMUM PANEL DIMENSIONS ARE 8'X8'.
2. PAVEMENT SECTION SHOWN MUST BE MINIMUM DEPTHS. MATCH THICKER SECTIONS AS DIRECTED BY THE ENGINEER. BITUMINOUS PAVEMENT SECTIONS MUST BE CONSTRUCTED IN MULTIPLE LIFTS 1.5" MINIMUM AND 2.5" MAXIMUM.
3. COORDINATE AND ALIGN JOINTS WITH APRON, SIDEWALK AND EXISTING CONCRETE DRIVEWAY.
4. SIDEWALK THROUGH THE DRIVEWAY SHALL BE 8" THICK AND NOT EXCEED 1.5% CROSS SLOPE.



SHAKOPEE PUBLIC WORKS DEPARTMENT	TYPICAL COMMERCIAL DRIVEWAY WITH SIDEWALK	APPROVED: 01/2023
	Sam L Liebsch	REVISED: 02/2021
	PUBLIC WORKS DIRECTOR/CITY ENGINEER	DETAIL NO: 4006

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JACKSON COMMONS PARK

DESIGNED: CLJ
CHECKED: RDR
DRAWN: CLM
HORIZONTAL SCALE: ###
VERTICAL SCALE: ### OR ##

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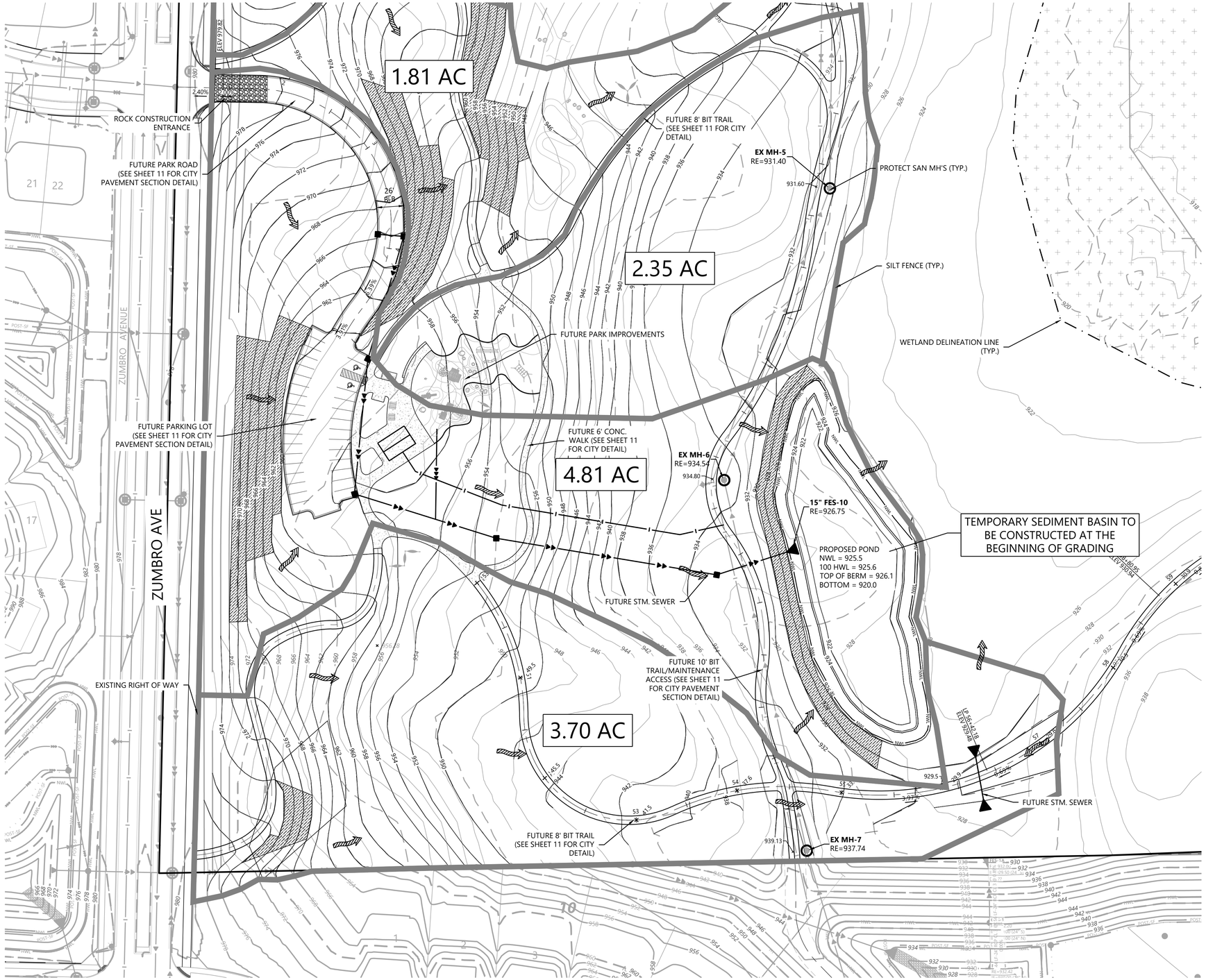
DETAILS

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PREPARED FOR:

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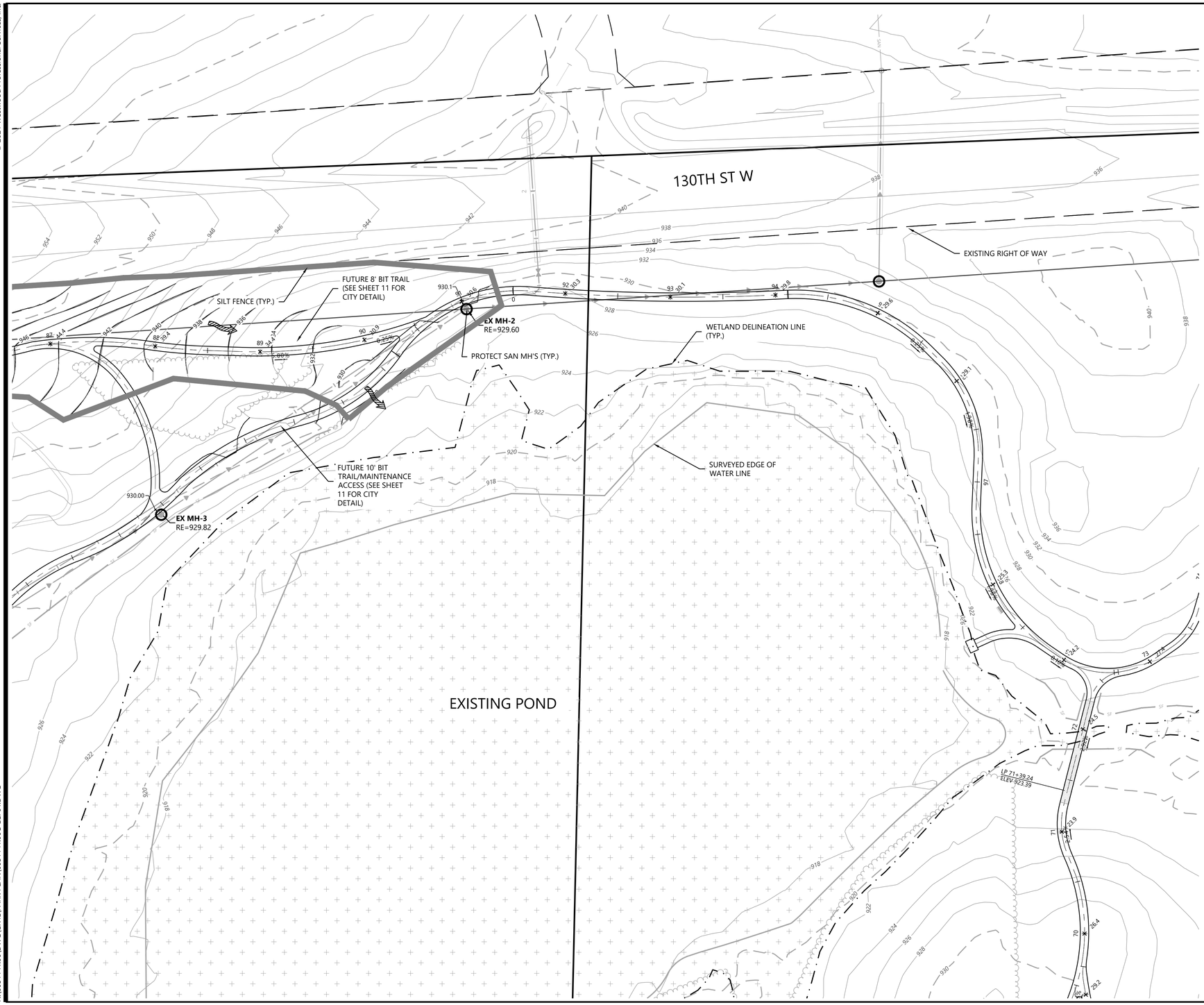
TEMPORARY EROSION CONTROL PLAN

PROJECT NUMBER: 0051141.00

SHEET NUMBER: 12 OF 20

DATE: 05/03/24

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RSC	RSC	REDUNDANT SEDIMENT CONTROL
		INLET PROTECTION
		EROSION CONTROL CHECKS/BIOROLLS
		ROCK CONSTRUCTION ENTRANCE
		EROSION CONTROL BLANKET
		TURF REINFORCEMENT MAT
		POND NORMAL WATER LEVEL
		WETLAND LINE
		WETLAND FILL
		WETLAND BUFFER
		POND ACCESS MAINTENANCE BENCH
		WETLAND BUFFER LIMITS
		WETLAND BUFFER MONUMENT
	DND	DO NOT DISTURB

1" = 50

0' 50' 100' 150'

CONSTRUCTION DOCUMENTS

N:\0051141.00\DWG\CIVIL\PARK PLAN\0051141.00C-ECF01.DWG

JACKSON COMMONS PARK

DESIGNED:	CLJ
CHECKED:	RDR
DRAWN:	CLM
HORIZONTAL SCALE:	50'
VERTICAL SCALE:	10' OR 5'

INITIAL ISSUE: 04/15/24
REVISIONS:
1 - -
2 - -
3 - -
4 - -
5 - -

PREPARED FOR:

CITY OF SHAKOPEE
JACKSON TOWNSHIP
SHAKOPEE, MN, 55379

I HEREBY CERTIFY THAT THIS PLAN 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

RYAN M. BLUHM
DATE: 05/03/24 LICENSE NO. 41257

JACKSON COMMONS PARK
SHAKOPEE, MN

Westwood
Phone (952) 937-5150
Fax (952) 937-5822
Toll Free (888) 937-5150
12701 Whitewater Drive, Suite #300
Minnetonka, MN 55343
westwoodps.com
Westwood Professional Services, Inc.

TEMPORARY EROSION CONTROL PLAN

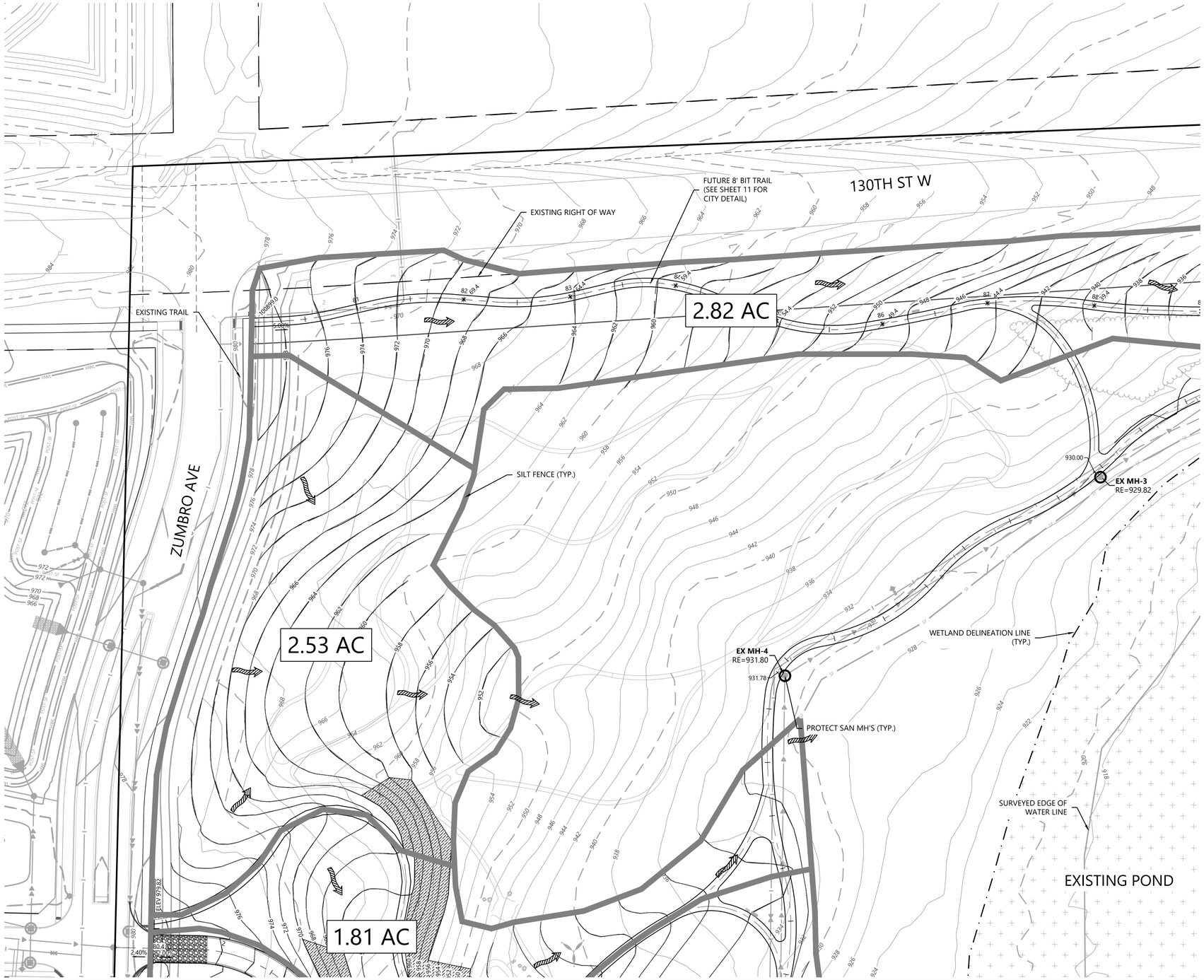
PROJECT NUMBER: 0051141.00

SHEET NUMBER: 13 OF 20

DATE: 05/03/24

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Common Ground Alliance



GRADING & EROSION CONTROL LEGEND

EXISTING	PROPOSED	
		PROPERTY LINE
SB-19	SB-19	SOIL BORING LOCATION
980	980	INDEX CONTOUR
982	982	INTERVAL CONTOUR
× 900.00	× 900.00	SPOT ELEVATION
	× HP/LP 900.00	HIGH/LOW POINT
	× CL-CL 900.00	CL-CL ELEVATION
	0.00%	FLOW DIRECTION
	TW=XXX.XX BW=XXX.XX	TOP AND BOTTOM OF RETAINING WALL
	E.O.F.	EMERGENCY OVERFLOW
	X.XX%	PROPOSED STREET PROFILE GRADE
STO		STORM SEWER
		TREE LINE
TPF		TREE PROTECTION FENCE
		RETAINING WALL (MODULAR BLOCK)
GL	GL	GRADING LIMITS
SF	SF	SILT FENCE
POST-SF	POST-SF	SILT FENCE-POST GRADING
HDSF	HDSF	HEAVY DUTY SILT FENCE
RSC	RSC	REDUNDANT SEDIMENT CONTROL
		INLET PROTECTION
		EROSION CONTROL CHECKS/BIOROLLS
		ROCK CONSTRUCTION ENTRANCE
		EROSION CONTROL BLANKET
		TURF REINFORCEMENT MAT
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		POND ACCESS MAINTENANCE BENCH
		WETLAND BUFFER LIMITS
		WETLAND BUFFER MONUMENT
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0' 50' 100' 150'

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JACKSON COMMONS PARK

DESIGNED:	CLJ
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DRAWN:	CLM
HORIZONTAL SCALE:	50'
VERTICAL SCALE:	10' OR 5'

INITIAL ISSUE: 04/15/24
REVISIONS:
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2 . .
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4 . .
5 . .

PREPARED FOR:

CITY OF SHAKOPEE
JACKSON TOWNSHIP
SHAKOPEE, MN, 55379

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JACKSON COMMONS PARK
SHAKOPEE, MN

Westwood
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Toll Free (888) 937-5150 westwoodps.com
Westwood Professional Services, Inc.

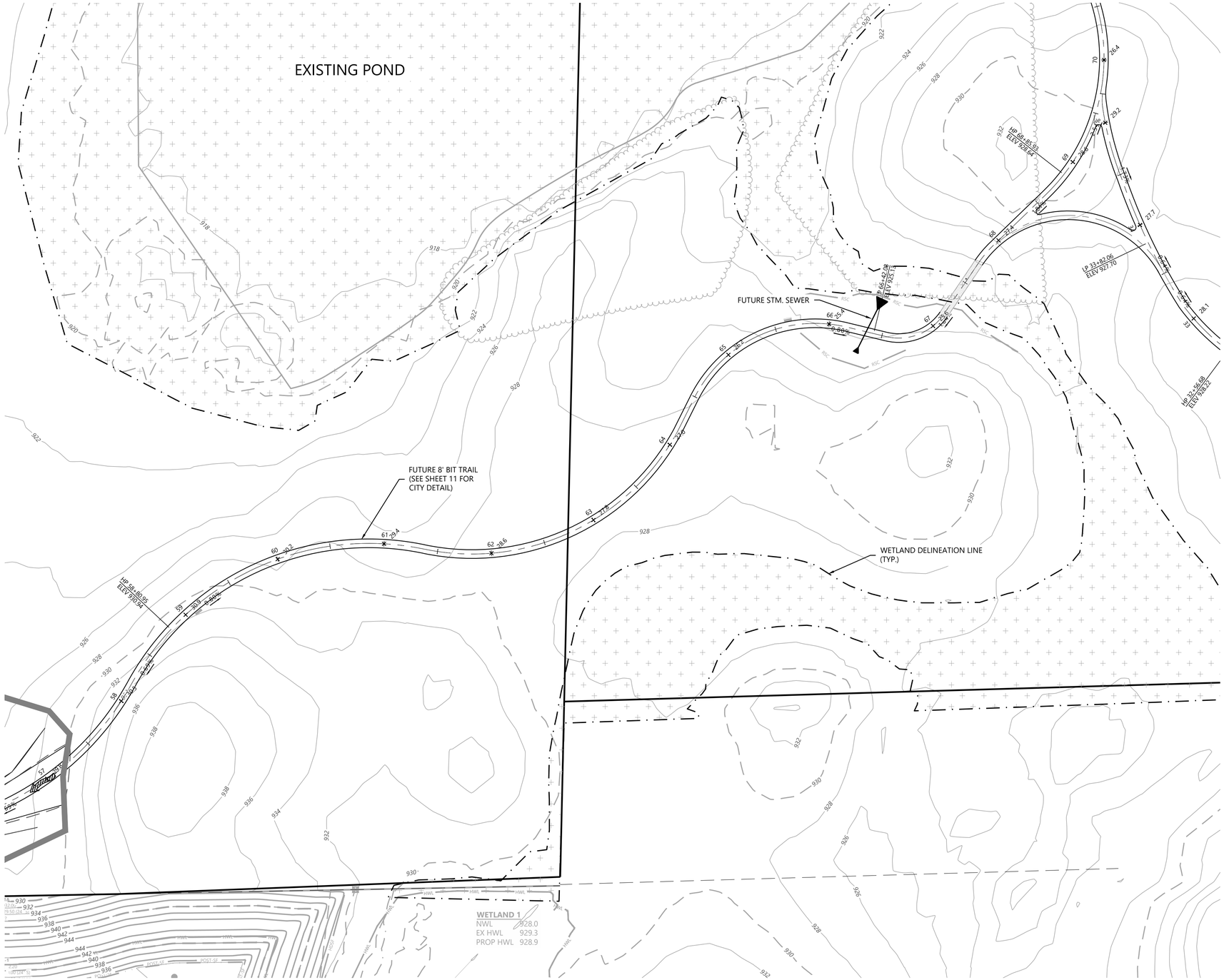
TEMPORARY EROSION CONTROL PLAN

PROJECT NUMBER: 0051141.00

SHEET NUMBER: 14 OF 20

DATE: 05/03/24

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GRADING & EROSION CONTROL LEGEND

EXISTING	PROPOSED	
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	X.XX%	PROPOSED STREET PROFILE GRADE
STO		STORM SEWER
		TREE LINE
	TPF	TREE PROTECTION FENCE
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JACKSON COMMONS PARK

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HORIZONTAL SCALE: 50'
VERTICAL SCALE: 10' OR 5'

INITIAL ISSUE: 04/15/24
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PREPARED FOR:
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RYAN M. BLUHM
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SHAKOPEE, MN

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TEMPORARY EROSION CONTROL PLAN

PROJECT NUMBER: 0051141.00

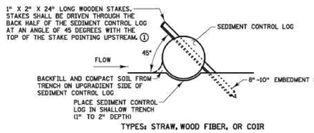
SHEET NUMBER: 15 OF 20
DATE: 05/03/24

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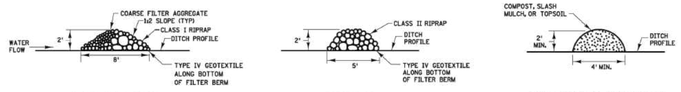
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PLOTTED/REVISED: 24-JAN-2020

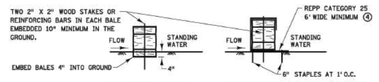
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PATH & FILENAME: G:\Data\projects\work\Development\New Borders\#05_Sarita\#05_3.sprdgn



SEDIMENT CONTROL LOGS



FILTER BERMS



BALE BARRIERS③

NOTES:
REPP = ROLLED EROSION PREVENTION PRODUCT.

SEE SPECS. 2573, 3149, 3874, 3882, 3885, 3886, AND 3897.

① SPACE BETWEEN STAKES SHALL BE A MAXIMUM OF 1' FOR DITCH CHECKS OR 2' FOR OTHER APPLICATIONS.

② PLACE STAKES AS NEEDED TO PREVENT MOVEMENT OF SEDIMENT CONTROL LOGS PLACED ON SLOPES OR AS NEEDED DUE TO OTHER FACTORS. STAKES SHALL BE INCIDENTAL.

③ TO BE USED FOR CRITICAL PERIMETER CONTROL AREAS WHERE STANDING WATER OCCURS 16" MAXIMUM DEPTH. BALES SHALL CONSIST OF TYPE 1 MULCH OF APPROXIMATELY 14" X 18" X 36" LONG. BALES SHALL BE PLACED ON EDGE AND BUTTED TIGHT TO ADJACENT BALES.

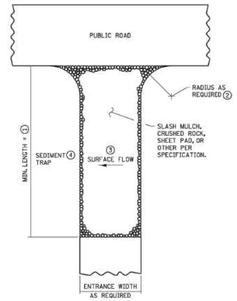
④ INSTEAD OF TRENCHING, PLACE BALE ON THE REPP (BLANKET) AND WRAP BLANKET AROUND THE BALE. PLACE STAKE THROUGH BALE AND BLANKET.

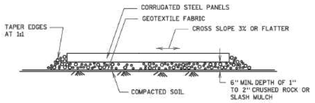
REVISIONS
APPROVED: JANUARY 8, 2020
MARK KARKOSKI
CHIEF ENVIRONMENTAL OFFICER

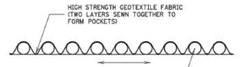
STANDARD PLAN 5-297.405	2 OF 8
APPROVED: 1-8-2020	TEMPORARY SEDIMENT CONTROL
REVISED:	FILTER BERMS, SEDIMENT CONTROL LOGS, AND BALE BARRIERS
TOM SOLBERG, P.E. STATE DESIGN ENGINEER	STATE PROJ. NO. (T.H.) SHEET NO. OF SHEETS

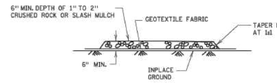
PLOTTED/REVISED: 4-APR-2018

PLOT NAME: _#05_5.pin
PATH & FILENAME: G:\Data\projects\work\Development\New Borders\#05_Sarita\#05_5.sprdgn









NOTES:
SEE SPECS. 2573 & 3882.

① MINIMUM LENGTH SHALL BE THE GREATER OF 50 FEET OR A LENGTH SUFFICIENT TO ALLOW A MINIMUM OF 5 TIRE ROTATIONS ON THE PROVIDED PAD. MINIMUM LENGTH SHALL BE CALCULATED USING THE LARGEST TIRE WHICH WILL BE USED IN TYPICAL OPERATIONS.

② PROVIDE RADIUS OR WIDEN PAD SUFFICIENTLY TO PREVENT VEHICLE TIRES FROM TRACKING OFF OF PAD WHEN LEAVING SITE.

③ IF RUNOFF FROM DISTURBED AREAS FLOWS TOWARD CONSTRUCTION EXITS, PREVENT RUNOFF FROM DRAINING DIRECTLY TO PUBLIC ROAD OVER CONSTRUCTION EXIT BY CROWNING THE EXIT OR SLOPING TO ONE SIDE. IF SURFACE GRADING IS INSUFFICIENT, PROVIDE OTHER MEANS OF INTERCEPTING RUNOFF.

④ IF RUNOFF FROM CONSTRUCTION EXITS WILL DRAIN OFF OF PROJECT SITE, PROVIDE SEDIMENT TRAP WITH STABILIZED OVERFLOW.

⑤ IF A TIRE WASH OFF IS REQUIRED THE CONSTRUCTION EXITS SHALL BE GRADED TO DRAIN THE WASH WATER TO A SEDIMENT TRAP.

⑥ MINIMUM LENGTH OF RUMBLE PAD SHALL BE 20 FEET, OR AS REQUIRED TO REMOVE SEDIMENT FROM TIRES. IF SIGNIFICANT SEDIMENT IS TRACKED FROM THE SITE, THE RUMBLE PAD SHALL BE LENGTHENED OR THE DESIGN MODIFIED TO PROVIDE ADDITIONAL VIBRATION, WASH-OFF LENGTH SHALL BE AS REQUIRED TO EFFECTIVELY REMOVE CONSTRUCTION SEDIMENT FROM VEHICLE TIRES.

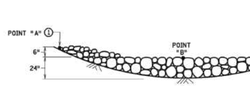
⑦ MAINTENANCE OF CONSTRUCTION EXITS SHALL OCCUR WHEN THE EFFECTIVENESS OF SEDIMENT REMOVAL HAS BEEN REDUCED. MAINTENANCE SHALL CONSIST OF REMOVING SEDIMENT AND CLEANING THE MATERIALS OR PLACING ADDITIONAL MATERIAL (SLASH MULCH OR CRUSHED ROCK) OVER SEDIMENT FILLED MATERIAL TO RESTORE EFFECTIVENESS.

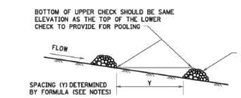
REVISIONS
APPROVED: 2-28-2017
GHOST ENVIRONMENTAL OFFICER

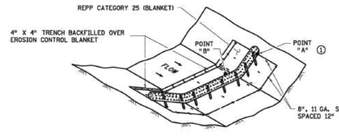
STANDARD PLAN 5-297.405	5 OF 8
APPROVED: 2-28-2017	TEMPORARY SEDIMENT CONTROL
REVISED:	STABILIZED CONSTRUCTION EXIT
TOM SOLBERG, P.E. STATE DESIGN ENGINEER	STATE PROJ. NO. (T.H.) SHEET NO. OF SHEETS

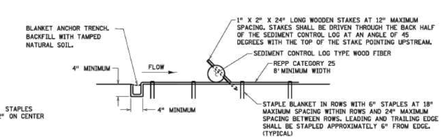
PLOTTED/REVISED: 24-JAN-2020

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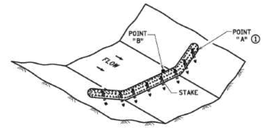








SEDIMENT CONTROL LOG TYPE REPP (BLANKET) SYSTEM ④



NOTES:
REPP = ROLLED EROSION PREVENTION PRODUCT.

SEE SPECS. 2573, 3601, 3733, 3885, 3886 & 3889.

FOR DITCH CHECKS, PLACE SEDIMENT CONTROL LOG PERPENDICULAR TO FLOW AND IN A CRESCENT SHAPE WITH THE ENDS FACING UPSTREAM.

APPROXIMATE SPACING BETWEEN EACH DITCH CHECK SHOULD BE DETERMINED FROM THE FOLLOWING SPACING FORMULA:

APPROXIMATE SPACING OF DITCH CHECKS (FT.) = Y = $\frac{\text{DITCH CHECK HEIGHT (FT.)}}{\text{\% CHANNEL SLOPE}} \times 100$

① POINT "A" MUST BE A MINIMUM OF 6" HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

② ROCK DITCH CHECKS PLACED WITHIN THE CLEAR ZONE ARE TO BE 18" OR LESS IN HEIGHT. A 1v6 APPROACH AND DEPARTURE SLOPE SHALL BE PROVIDED.

③ DITCH GRADE 3% - 5%, MAX. FLOW VELOCITY 12 FT./SEC.

④ DITCH GRADE 1.5% - 3%, MAX. FLOW VELOCITY 4.5 FT./SEC.

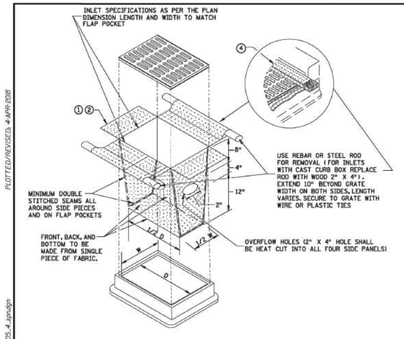
⑤ DITCH GRADE 1.5% - 3%, MAX. FLOW VELOCITY 1.5 FT./SEC.

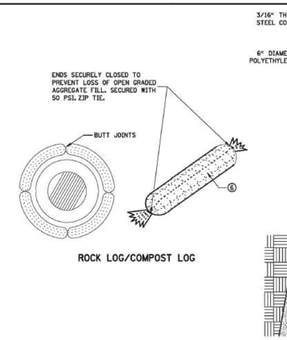
REVISIONS
APPROVED: JANUARY 8, 2020
MARK KARKOSKI
CHIEF ENVIRONMENTAL OFFICER

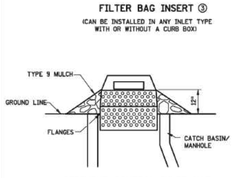
STANDARD PLAN 5-297.405	3 OF 8
APPROVED: 1-8-2020	TEMPORARY SEDIMENT CONTROL
REVISED:	DITCH CHECK
TOM SOLBERG, P.E. STATE DESIGN ENGINEER	STATE PROJ. NO. (T.H.) SHEET NO. OF SHEETS

PLOTTED/REVISED: 4-APR-2018

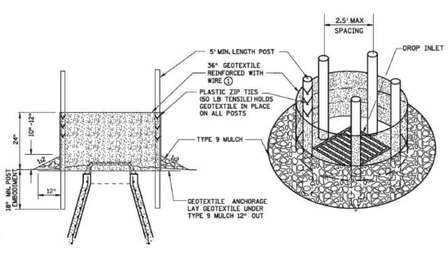
PLOT NAME: _#05_4.pin
PATH & FILENAME: G:\Data\projects\work\Development\New Borders\#05_Sarita\#05_4.sprdgn







NOTE:
THE SEDIMENT CONTROL BARRIER SHALL BE A METAL OR PLASTIC/POLYETHYLENE RISER SIZED TO FIT INSIDE THE CATCH BASIN/MANHOLE) HAVE PERFORATIONS TO ALLOW FOR WATER INFILTRATION) HAVE AN OVERFLOW OPENING, FLANGES AND A LID/COVER.



NOTES:
SEE SPECS. 2573, 3137, & 3886.

DEVICES MUST BE ADJUSTED ACCORDINGLY AS TO NOT CAUSE FLOODING ON ROADWAY THAT WOULD IMPEDE TRAFFIC FLOW.

① ALL GEOTEXTILE USED FOR INLET PROTECTION SHALL BE MONOFILAMENT IN BOTH DIRECTIONS, MEETING SPEC. 3886.

② FINISHED SIZE, INCLUDING POCKETS WHERE REQUIRED SHALL EXTEND A MINIMUM OF 10 INCHES AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

③ INSTALLATION NOTES:
DO NOT PLACE FILTER BAG INSERT IN INLETS SHALLOWER THAN 30 INCHES, MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE. THE PLACED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE OF 3 INCHES BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES. WHERE NECESSARY THE CONTRACTOR SHALL CLINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3 INCH SIDE CLEARANCE.

④ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2 INCH X 4 INCH OR USE A ROCK SOCK OR SAND BAGS IN PLACE OF THE FLAP POCKETS.

⑤ SOCK HEIGHT MUST NOT BE SO HIGH AS TO SLOW DOWN WATER FILTRATION TO CAUSE FLOODING OF THE ROADWAY.

⑥ GEOTEXTILE SOCK BETWEEN 4-10 FEET LONG AND 4-6 INCH DIAMETER, SEAM TO BE JOINED BY TWO ROWS OF STITCHING WITH A PLASTIC MESH BACKING OR PROVIDE A HEAT BONDED SEAM (OR APPROVED EQUIVALENT). FILL ROCK LOG WITH OPEN GRADED AGGREGATE CONSISTING OF SOUND DURABLE PARTICLES OF COARSE AGGREGATE CONFORMING TO SPEC. 3137 TABLE 3137-1; CA-3 GRADATION.

REVISIONS
APPROVED: 2-28-2017
GHOST ENVIRONMENTAL OFFICER

STANDARD PLAN 5-297.405	4 OF 8
APPROVED: 2-28-2017	TEMPORARY SEDIMENT CONTROL
REVISED:	STORM DRAIN INLET PROTECTION
TOM SOLBERG, P.E. STATE DESIGN ENGINEER	STATE PROJ. NO. (T.H.) SHEET NO. OF SHEETS

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JACKSON COMMONS PARK

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VERTICAL SCALE:	### OR ##

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12701 Whitewater Drive, Suite #300
Minnetonka, MN 55343
westwoodps.com
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MNDOT EROSION CONTROL DETAILS

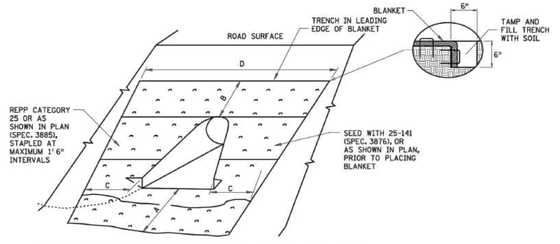
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SHEET NUMBER: 16 OF 20

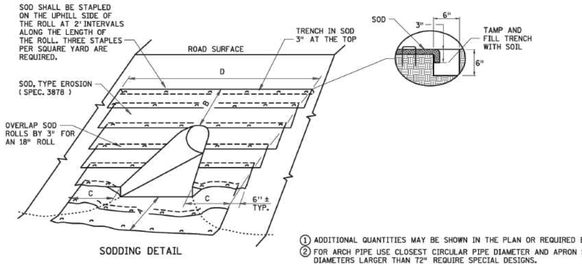
DATE: 05/03/24

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ROLLED EROSION PREVENTION PRODUCT (BLANKET) & SEED DETAIL



SODDING DETAIL

① ADDITIONAL QUANTITIES MAY BE SHOWN IN THE PLAN OR REQUIRED BY THE ENGINEER.
② FOR ARCH PIPE USE CLOSEST CIRCULAR PIPE DIAMETER AND APRON SLOPE. DIAMETERS LARGER THAN 72" REQUIRE SPECIAL DESIGNS.

CULVERT INLET APRON ①

CULVERT DIAMETER ②	SOD OR REPP (SQ. YDS.)									
	CIRCULAR AND ARCH PIPE METAL APRON (PLATE 3123, PLATE 3122)	CIRCULAR AND ARCH PIPE CONCRETE APRON (PLATE 3100, PLATE 3110)	CIRCULAR AND ARCH PIPE METAL SAFETY APRON 1:4 SLOPE (PLATE 3148)	CIRCULAR AND ARCH PIPE METAL SAFETY APRON 1:6 SLOPE (PLATE 3148)	CIRCULAR CORRUGATED METAL PIPE SAFETY APRON 1:6 SLOPE (PLATE 3128)	CIRCULAR CORRUGATED METAL PIPE SAFETY APRON 1:4 SLOPE (PLATE 3128)	"A"	"B"	"C"	"D"
15"	9	9	8	8	N/A	N/A	3'	1.5'	3'	13'
18"	13	12	12	14	16	N/A	3'	3'	3'	16'
21"	14	14	14	16	18	14	3'	3'	3'	17'
24"	16	15	16	19	21	17	3'	3'	3'	18'
27"	N/A	20	N/A	N/A	N/A	N/A	3'	4.5'	3'	20'
30"	23	22	25	30	32	N/A	3'	4.5'	3'	22'
36"	34	34	39	48	51	37	4.5'	4.5'	4.5'	27'
42"	43	40	51	64	N/A	N/A	4.5'	6'	4.5'	30'
48"	54	50	66	82	N/A	N/A	4.5'	7.5'	4.5'	34'
54"	65	58	81	102	N/A	N/A	4.5'	9'	4.5'	37'
60"	69	59	91	115	N/A	N/A	4.5'	9'	4.5'	39'
66"	69	63	N/A	N/A	N/A	N/A	4.5'	9'	4.5'	39'
72"	78	72	99	122	N/A	N/A	4.5'	10.5'	4.5'	41'

CULVERT OUTLET APRON ①

CULVERT DIAMETER ②	SOD OR REPP (SQ. YDS.)									
	CIRCULAR AND ARCH PIPE METAL APRON (PLATE 3123, PLATE 3122)	CIRCULAR AND ARCH PIPE CONCRETE APRON (PLATE 3100, PLATE 3110)	CIRCULAR AND ARCH PIPE METAL SAFETY APRON 1:4 SLOPE (PLATE 3148)	CIRCULAR AND ARCH PIPE METAL SAFETY APRON 1:6 SLOPE (PLATE 3148)	CIRCULAR CORRUGATED METAL PIPE SAFETY APRON 1:6 SLOPE (PLATE 3128)	CIRCULAR CORRUGATED METAL PIPE SAFETY APRON 1:4 SLOPE (PLATE 3128)	"A"	"B"	"C"	"D"
15"	10	10	9	10	N/A	N/A	4.5'	1.5'	3'	13'
18"	13	13	12	14	15	N/A	6'	1.5'	3'	14'
21"	16	14	16	18	19	15	6'	1.5'	3'	15'
24"	18	18	18	21	22	18	7.5'	1.5'	3'	16'
27"	N/A	19	N/A	N/A	N/A	N/A	7.5'	1.5'	3'	17'
30"	23	23	24	28	29	N/A	9'	1.5'	3'	18'
36"	36	35	38	47	48	37	10.5'	1.5'	4.5'	23'
42"	43	40	47	58	N/A	N/A	12'	1.5'	4.5'	25'
48"	50	46	57	70	N/A	N/A	13.5'	1.5'	4.5'	27'
54"	57	50	67	84	N/A	N/A	15'	1.5'	4.5'	29'
60"	74	63	90	113	N/A	N/A	16.5'	1.5'	6'	33'
66"	75	67	N/A	N/A	N/A	N/A	16.5'	1.5'	6'	33'
72"	77	70	92	114	N/A	N/A	16.5'	1.5'	6'	34'

NOTES:
REPP = ROLLED EROSION PREVENTION PRODUCT.

AREA SHOWN IN SQUARE YARDS IS FOR ONE CULVERT END.

QUANTITIES ARE CALCULATED TO INCLUDE SOD REQUIRED TO PROVIDE A 3" OVERLAP ON ALL 18" WIDE ROLLS. THIS ALLOWS FOR SHRINKAGE OF THE SOD.

FOR PIPE ARCHES USE EQUIVALENT PIPE DIAMETER TO APPROXIMATE AREA.

FOR CORRUGATED POLYETHYLENE PIPE METAL APRON (PLATE 3129), USE THE METAL APRON COLUMN (PLATE 3123).

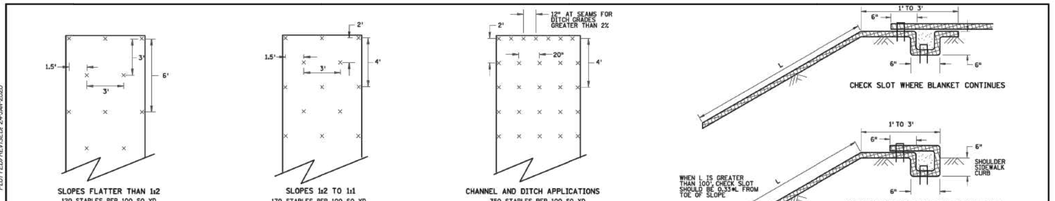
AREAS AND DIMENSIONS ARE APPROXIMATE AND ARE BASED ON APRON SIDE SLOPES OF NO STEEPER THAN 1:2, UNLESS INDICATED AS FOR SAFETY APRONS.

CARE SHOULD BE TAKEN IN SELECTING SOD TO STABILIZE THE APRON. RIP-RAP SHOULD BE USED FOR FLOW VELOCITIES GREATER THAN 6 FPS.

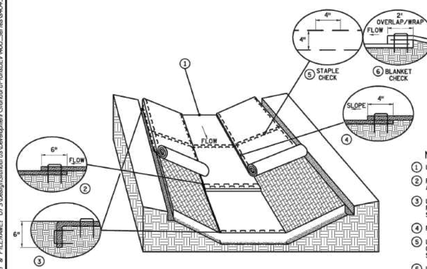
REVISIONS
APPROVED: JANUARY 8, 2020
MARK RAMSDELL
CHIEF ENVIRONMENTAL OFFICER

STANDARD PLAN 5-297.404	2 OF 3
APPROVED: 1-8-2020	
REVISED:	
STATE PROJ. NO.	(T.H.) SHEET NO. OF SHEETS

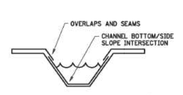
PERMANENT EROSION CONTROL
TURF ESTABLISHMENT DETAIL AT CULVERT ENDS



BLANKET STAPLE PATTERN



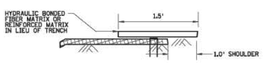
DITCH BLANKET STAPLE DETAIL



DITCH BLANKET CRITICAL POINTS ⑦

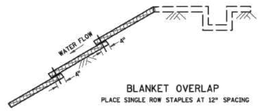
NOTES:
① USE CHECK SLOT DETAIL (NO ALTERNATES).
② PLACE DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER.
③ USE 6" X 6" TRENCH TO PLACE BLANKET. PLACE SINGLE ROW OF STAPLES ON TOP AND TRENCH SIDES AT 12" SPACING. BACKFILL TRENCH WITH SOIL AND TAMP.
④ PLACE SINGLE ROW OF STAPLES AT 12" SPACING.
⑤ USE STAPLE CHECK FOR CHANNEL SLOPES LESS THAN 2.5%, GRADE AT 100' INTERVALS. PLACE DOUBLE ROW OF STAPLES STAGGERED 4" APART AND AT 4' SPACING.
⑥ USE BLANKET CHECKS FOR THE FOLLOWING SLOPES: 2.5%-3% 100' INTERVALS 3%-5% 50' INTERVALS 5%-7% 25' INTERVALS
⑦ CRITICAL POINTS SHALL BE SECURED WITH PROPER STAPLE PATTERNS.

CHECK SLOT REQUIREMENTS
DIG 6" BY 6" TRENCH.
INSERT BLANKET INTO ENTIRE TRENCH PERIMETER.
PLACE SINGLE ROW STAPLES AT 3' SPACING ALONG THE BOTTOM OF THE TRENCH.
BACKFILL TRENCH WITH SOIL AND TAMP.
PLACE SINGLE ROW STAPLES AT 3' SPACING ON OVERLAP.



CHECK SLOT ALTERNATIVE
PLACE SINGLE ROW STAPLES AT 12" SPACING

CHECK SLOT DETAILS



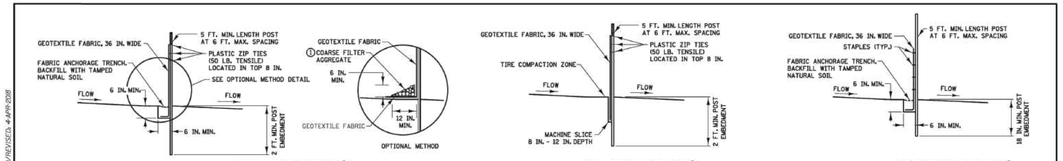
BLANKET OVERLAP
PLACE SINGLE ROW STAPLES AT 12" SPACING

GENERAL BLANKET INSTALLATION REQUIREMENTS
REPP = ROLLED EROSION PREVENTION PRODUCT.
PREPARE SOIL AS PER SPECIFICATION 2574.
LAY PARALLEL OR PERPENDICULAR TO THE DIRECTION OF WATER FLOW.
OVERLAP ADJACENT STRIP EDGES A MINIMUM OF 4".
OVERLAP BLANKET 6" (MINIMUM) AT EACH END. OVERLAP BOTTOM END OF UPPER BLANKET OVER TOP END OF LOWER BLANKET. STAPLE ALONG OVERLAP EVERY 1.5'.
THE UPPERMOST BLANKET OF ALL SLOPE APPLICATIONS MUST START IN A CHECK SLOT. IF SLOPE LENGTH (L) IS 100' OR GREATER, INSERT BLANKET INTO A CHECK SLOT ½ FROM THE BOTTOM OF THE SLOPE.

REVISIONS
APPROVED: JANUARY 8, 2020
MARK RAMSDELL
CHIEF ENVIRONMENTAL OFFICER

STANDARD PLAN 5-297.404	3 OF 3
APPROVED: 1-8-2020	
REVISED:	
STATE PROJ. NO.	(T.H.) SHEET NO. OF SHEETS

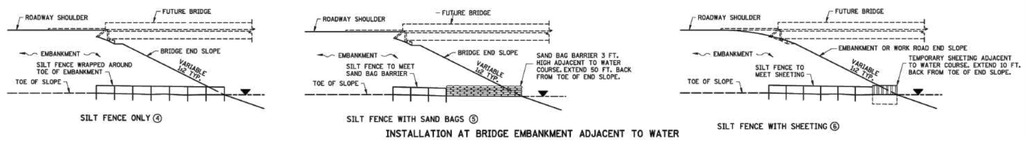
PERMANENT EROSION CONTROL
REPP (BLANKET) STAPLE PATTERN FOR SLOPES



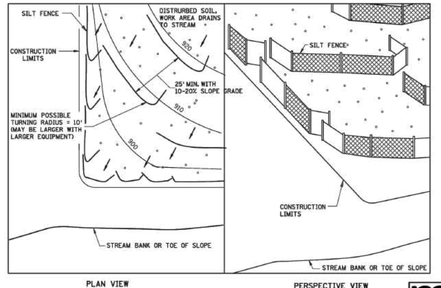
SILT FENCE TYPE HI ② (HAND INSTALLED)

SILT FENCE TYPE MS ② (MACHINE SLICED)

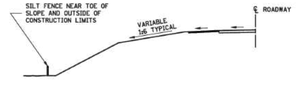
SILT FENCE TYPE PA ⑤ (PREASSEMBLED)



INSTALLATION AT BRIDGE EMBANKMENT ADJACENT TO WATER



J-HOOK INSTALLATION



LOCATION AT TOE OF ROADWAY EMBANKMENT

NOTES:
SEE SPECS. 2573, 3149 & 3886.
① COARSE FILTER AGGREGATE (SPEC. 3149) SHALL BE INCIDENTAL.
② TO PROTECT AREAS FROM SHEET FLOW. MAXIMUM CONTRIBUTING AREA: 1 ACRE.
③ TO PROTECT AREAS FROM SHEET FLOW. MAXIMUM CONTRIBUTING AREA: 0.25 ACRE.
④ WATER COURSE FLOW VELOCITY: STANDING. CONTRIBUTING SLOPE AREA: 1/2 ACRE.
⑤ WATER COURSE FLOW VELOCITY: 1 TO 7 FT./SEC. CONTRIBUTING SLOPE AREA: 1 ACRE.
⑥ WATER COURSE FLOW VELOCITY: 8 TO 15 FT./SEC. CONTRIBUTING SLOPE AREA: 3 ACRES.

REVISIONS
APPROVED: 2-28-2017
CHIEF ENVIRONMENTAL OFFICER

STANDARD PLAN 5-297.405	6 OF 8
APPROVED: 2-28-2017	
REVISED:	
STATE PROJ. NO.	(T.H.) SHEET NO. OF SHEETS

TEMPORARY SEDIMENT CONTROL
SILT FENCE

DESIGNED:	CLJ
CHECKED:	RDR
DRAWN:	CLM
HORIZONTAL SCALE:	###
VERTICAL SCALE:	### OR ##

INITIAL ISSUE: 04/15/24
REVISIONS:
1 . .
2 . .
3 . .
4 . .
5 . .

PREPARED FOR:

CITY OF SHAKOPEE
JACKSON TOWNSHIP
SHAKOPEE, MN, 55379

I HEREBY CERTIFY THAT THIS PLAN 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

RYAN M. BLUHM
DATE: 05/03/24 LICENSE NO. 41257

JACKSON COMMONS PARK
SHAKOPEE, MN

Westwood
Phone (952) 937-5150 12701 Whitewater Drive, Suite #300
Fax (952) 937-5822 Minnetonka, MN 55343
Toll Free (888) 937-5150 westwoodps.com
Westwood Professional Services, Inc.

MNDOT EROSION CONTROL DETAILS

PROJECT NUMBER: 0051141.00

SHEET NUMBER: 17 OF 20
DATE: 05/03/24

JACKSON COMMONS PARK

N:\0051141.00\DWG\CIVIL\PARK PLAN\0051141.00C-DTF01.DWG

PLOTTED/REVISED: 4-APR-2018
PLOT NAME: ..\#04_E.ctb
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PLOTTED/REVISED: 24-JAN-2020
PLOT NAME: ..\#04_I.ctb
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PLOTTED/REVISED: 4-APR-2018
PLOT NAME: ..\#05_E.ctb
PATH & FILENAME: G:\Data\Projects\Jackson\Development\New Border\400_Series\#05_E.dgn

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SWPPP NARRATIVE

THE SWPPP IS PREPARED IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REGULATIONS AS ESTABLISHED BY THE CLEAN WATER ACT. THE MINNESOTA POLLUTION CONTROL AGENCY'S CONSTRUCTION GENERAL PERMIT MN R100001 (CSGP) (EXPIRATION DATE: JULY 31, 2028) PROVIDES A FRAME WORK OF REQUIREMENTS FOR COMPLIANCE TO DISCHARGE STORMWATER FROM A CONSTRUCTION SITE.

THE SWPPP IS FOR IMPLEMENTATION BY THE OWNER AND OPERATOR, AS LISTED BELOW, AT JACKSON PARK. THIS REPORT SHALL BE ON THE SITE AT ALL TIMES DURING CONSTRUCTION. THE OWNER MUST ALSO KEEP THIS SWPPP ON FILE FOR THREE YEARS AFTER SUBMITTAL OF THE NOTICE OF TERMINATION. THE FOLLOWING ARE OUTLINED IN THIS SWPPP:

- CONTROL MEASURES FOR STORM WATER POLLUTION PREVENTION PRIOR TO AND DURING CONSTRUCTION
- CONTROL MEASURES FOR STORM WATER POLLUTION PREVENTION AFTER CONSTRUCTION
- SOURCES OF STORMWATER AND NON-STORMWATER POLLUTION
- INSPECTION AND MAINTENANCE PROCEDURES

THE GRADING AND EROSION CONTROL PLAN PREPARED FOR JACKSON PARK SHALL BE CONSIDERED PART OF THE SWPPP.

PROJECT LOCATION
THIS DOCUMENT PRESENTS A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR JACKSON PARK IN SHAKOPEE, MN. THE SITE IS LOCATED IN THE SE CORNER AT THE INTERSECTION OF ZUMBRO AVENUE AND COUNTY ROAD 78.

PROJECT CONTACT INFORMATION

OWNER/DEVELOPER:	CONTRACTOR:	
MICHEAL KERSKI CITY OF SHAKOPEE 485 GORHAM STREET SHAKOPEE, ,M 55379 952-233-9346 MKERSKI@SHAKOPEEMN.GOV	TBD	
IDENTIFY PERSONNEL INVOLVED WITH THE PROJECT AND THEIR RELATED NECESSARY TRAINING COMMENSURATE WITH THEIR TASK PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.		
SWPPP DESIGNER:	SWPPP INSPECTION:	BMP INSTALLER:
CHAD JOHNSON WESTWOOD PROFESSIONAL SERVICES, INC 12701 WHITEWATER DRIVE, SUITE #300 MINNETONKA, MN 55343 952-906-7489 CHAD.JOHNSON@WESTWOODPS.COM DESIGN OF CONSTRUCTION SWPPP, U OF M 05/31/25	TBD	TBD

OWNER/OPERATOR RESPONSIBILITIES
OWNER
-DEVELOPMENT OF SWPPP PRIOR TO APPLICATION/NOI SUBMITTAL.
-SUBMIT A COMPLETE AND ACCURATE APPLICATION FORM (NOI)
-COMPLIANCE WITH ALL TERMS AND CONDITIONS OF CONSTRUCTION GENERAL STORMWATER PERMIT
-SWPPP SUBMITTAL FOR 30 DAY REVIEW FOR PROTECT GREATER THAN 50 ACRES & DISCHARGING TO SPECIAL/IMPAIRED WATERS WITHIN 1 MILE OF SITE DISCHARGE.
-KEEPING PERMIT COVERAGE UP-TO-DATE (TRANSFER/SUBDIVISION)
-SUBMIT NOTICE OF TERMINATION (NOT) WITHIN 30 DAYS AFTER ALL PERMIT TERMINATION CONDITIONS AS LISTED IN SECTION 13 ARE COMPETE
-SUBMIT NOTICE OF TERMINATION (NOT) WITHIN 30 DAYS OF MEETING REQUIREMENTS OF FINAL STABILIZATION
-IDENTIFY WHO HAS LONG TERM OPERATION AND MAINTENANCE RESPONSIBILITY OF THE PERMANENT STORMWATER SYSTEM.
-DEVELOP CHAIN OF RESPONSIBILITY WITH ALL OPERATORS TO ENSURE NPDES COMPLIANCE.
-IDENTIFY TRAINED PERSONNEL TO DEVELOP THE SWPPP, INSTALL AND MAINTAIN BEST MANAGEMENT PRACTICES, AND OVERSEE THE SWPPP AND CONDUCT INSPECTIONS

OPERATOR
-COMPLETION OF AN ACCURATE NOI WITH THE OWNER
-COMPLIANCE WITH CSGP SECTIONS 3, 4, 6-22, 24 AND ANY APPLICABLE REQUIREMENTS FOR CONSTRUCTION ACTIVITY IN SECTION 23 (MINN. R. 7090)
-KEEPING THE PERMIT UP-TO-DATE WITH THE OWNER (PARTIAL, WHOLE, CONTRACTOR, BUILDER, ETC)
-COMPLETE AND SIGN APPLICATIONS FOR PERMIT TRANSFER AND MODIFICATION AND NOTICE OF TERMINATION WITH OWNER AS NEEDED.

PROJECT DESCRIPTION
THE SITE IS APPROXIMATELY 16.25 ACRES. CONSTRUCTION WILL CONSIST OF, BUT IS NOT LIMITED MASS GRADING WITH PROPOSED POND, DRIVEWAY, PARKING LOT, PLAYGROUND AREAS AND TRAILS.

PROJECT AREA = 16.25 ACRES
DISTURBED AREA = 16.25 ACRES
EXISTING IMPERVIOUS AREA = 0.0 ACRES
PROPOSED IMPERVIOUS AREA = 3.00 ACRES

PRE-DEVELOPMENT SITE CONDITIONS
SITE IS GENERALLY CONSISTENT WITH TYPE "D" SOILS. EXISTING SITE GENERALLY DRAINS FROM WEST TO EAST INTO THE EXISTING JACKSON PARK POND

SOIL TYPES
REFER TO GEOTECHNICAL REPORT DATED 02/10/2023 COMPLETED BY BRAUN INTERTEC FOR HIGHVIEW PARK PROJECT.

POST-DEVELOPMENT SITE CONDITIONS
THE PROPOSED SITE MAINTAINS THE OVERALL EXISTING DRAINAGE PATTERNS. 4.75 ACRES OF THE SITE WILL BE DIRECTED TO THE PROPOSED POND AND THEN DISCHARGE WITH THE REMAINING SITE TO THE EXISTING JACKSON PARK POND.

STORM WATER MANAGEMENT PLAN
THE TEMPORARY STORMWATER MANAGEMENT PLAN WILL CONSIST OF GUIDELINES SET FORTH IN THE SWPPP NOTES SECTION.

THE PERMANENT STORM WATER MANAGEMENT PLAN WILL CONSIST OF SURFACE DRAINAGE BY SWALES AND STORM SEWER PIPE. 4.75 ACRES OF SITE DRAINAGE WILL BE DIRECTED TO THE PROPOSED POND.

REFER TO THE JACKSON PARK STORMWATER MANAGEMENT REPORT FOR MORE INFORMATION REGARDING THE PRE-DEVELOPMENT SITE CONDITIONS, POST-DEVELOPMENT SITE CONDITIONS, STORM WATER MANAGEMENT CALCULATIONS, AND DRAINAGE AREA MAPS.

THE SITE STORM WATER DETENTION FACILITY WILL BE CONSTRUCTED TO MEET OR EXCEED LOCAL, STATE AND FEDERAL REQUIREMENTS.

TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMP'S ALONG WITH THE PROCEDURES TO BE USED TO ESTABLISHED ADDITIONAL TEMPORARY BMP'S AS NECESSARY FOR SITE CONDITIONS DURING CONSTRUCTION ARE IDENTIFIED ON THE SITE GRADING AND EROSION CONTROL PLAN PREPARED FOR THE DEVELOPMENT OF THIS PROJECT, AND WITHIN THE PROJECT STORM WATER POLLUTION PREVENTION PLAN.

RECEIVING WATERS WITHIN 1 MILE OF THE PROJECT SITE

NAME	TYPE	IMPAIRED (Y/N)	SPECIAL (Y/N)	DISTANCE/ DIRECTION FROM SITE
NONE				

POTENTIAL STORM WATER POLLUTANTS
POTENTIAL POLLUTANT SOURCES, INCLUDING CONSTRUCTION AND WASTE MATERIALS THAT ARE USED OR STORED AT THE SITE, ARE DESCRIBED IN THE SECTION. BY IMPLEMENTATION OF THESE BMPS, THE POTENTIAL POLLUTANT SOURCES ARE NOT REASONABLY EXPECTED TO AFFECT THE STORM WATER DISCHARGES FROM THE SITE.

CONSTRUCTION MATERIALS, CHEMICALS AND WASTE MATERIALS THAT WILL BE USED OR STORED AT THE SITE:

POTENTIAL POLLUTANT	LOCATION	CONTROL MEASURE
ANTIFREEZE	VARIOUS	SECONDARY CONTAINMENT / DRIP PAN
DIESEL FUEL	VARIOUS	SECONDARY CONTAINMENT / DRIP PAN
FERTILIZER	LANDSCAPE CONTRACTOR	SECONDARY CONTAINMENT
GASOLINE	IN EQUIPMENT/FUELING AREA	SECONDARY CONTAINMENT / DRIP PAN
GLUE/ADHESIVES	CONTRACTOR	SECONDARY CONTAINMENT
HYDRAULIC OILS/FLUIDS	CONTRACTOR	SECONDARY CONTAINMENT
PAINTS	CONTRACTOR	SECONDARY CONTAINMENT
GREASE	CONTRACTOR	SECONDARY CONTAINMENT / DRIP PAN
SANITARY WASTE	PORTABLE BATHROOMS	SERVICE PROVIDER TO SECURE UNITS FROM TIPPING OVER AND MAINTAINED
SOIL AMENDMENTS	VARIOUS	SECONDARY CONTAINMENT
LANDSCAPING MATERIALS	LANDSCAPE CONTRACTOR	CONTRACTOR RESPONSIBLE
CONCRETE	TRUCK WASHOUT	WASHOUT AREA
CONCRETE / MORTAR	MOBILE MIXER	S.C. / WASHOUT AREA

CONSTRUCTION SEQUENCE
THE INTENDED SEQUENCING OF MAJOR SITE CONSTRUCTION ACTIVITIES IS AS FOLLOWS:

1. INSTALL PERIMETER CONTROL DEVICES (SILT FENCE, BIO-LOGS, ETC.) AND INLET PROTECTION TO EXISTING STRUCTURES AS SHOWN ON PLAN. INSTALL TREE PROTECTION FENCE AS SHOWN ON PLAN.
2. INSTALL STABILIZED ROCK CONSTRUCTION ENTRANCE.
3. CLEAR AND GRUB SITE.
4. STRIP AND STOCKPILE TOPSOIL.
5. ROUGH GRADE OF SITE.
6. STABILIZE DENUDED AREAS AND STOCKPILES.
7. INSTALL SANITARY SEWER, WATERMAIN, STORM SEWER AND SERVICES.
8. INSTALL INLET PROTECTION AROUND CATCH BASINS.
9. INSTALL STREET SECTION.
10. INSTALL CURB AND GUTTER.
11. INSTALL PAVEMENT.
12. INSTALL SMALL UTILITIES (GAS, ELECTRIC, PHONE, CABLE, ETC.)
13. FINE GRADE BOULEVARD, LANDSCAPE AREAS, SEED AND MULCH.
14. REMOVE ACCUMULATED SEDIMENT.
15. FINAL GRADE.
16. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED BY EITHER SEED OR SOD AND LANDSCAPING, REMOVE SILT FENCE AND RESEED ANY AREAS DISTURBED BY THE REMOVAL.

CONSTRUCTION NOTES
IT IS HIGHLY RECOMMENDED THAT THE CONTRACTOR MAINTAIN A STOCKPILE OF EROSION CONTROL DEVICES AND SEDIMENT CONTROL BMP'S ON SITE AT ALL TIMES FOR IMMEDIATE USAGE. IN THE EVENT OF AN ACCIDENTAL SEDIMENT DISCHARGE TO WATERS OF THE STATE, OR ANY DISCHARGE OF HAZARDOUS MATERIAL OF REPORTABLE QUANTITY, CONTACT THE MPCA STATE DUTY OFFICER AT 1-800-422-0798.

TIMING OF BMP INSTALLATION
THE EROSION PREVENTION AND SEDIMENT CONTROL BMP'S SHALL BE INSTALLED TO MINIMIZE EROSION FROM DISTURBED SURFACES AND CAPTURE SEDIMENT ON SITE. THE FOLLOWING LIST DEFINES THE TIMING OF EROSION PREVENTION AND SEDIMENT CONTROL MEASURES IN SPECIFIC AREAS.

- PRIOR TO START OF CONSTRUCTION

THE FOLLOWING EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE SHOWN IN THE PLANS AND SHALL BE IMPLEMENTED PRIOR TO CONSTRUCTION:

1. INSTALL SILT FENCE OR OTHER SEDIMENT CONTROL AROUND THE PERIMETER OF AREAS TO BE GRADED AND ALL AREAS WHICH ARE NOT TO BE DISTURBED AS SHOWN ON THE GRADING AND EROSION CONTROL PLAN.
2. CONSTRUCT GRAVEL CONSTRUCTION ENTRANCES AT FIELD ENTRANCES TO THE SITE AS SHOWN ON THE CONSTRUCTION PLANS.
3. INLET PROTECTION IS TO BE INSTALLED AT ALL STORM WATER INLETS WHICH HAVE THE POTENTIAL TO RECEIVE STORM WATER RUNOFF FROM THE CONSTRUCTION SITE WITHIN 200 FEET OF LIMITS OF CONSTRUCTION.
4. INSTALL SILT FENCE OR OTHER SEDIMENT CONTROL AROUND ALL TEMPORARY INACTIVE STOCKPILES. ALL SILT FENCES FOR STOCKPILES SHALL BE INCIDENTAL TO GRADING CONTRACT IF STOCKPILES ARE PLACED OUTSIDE OF SILT FENCES SHOWN ON THE PLAN.

- DURING CONSTRUCTION

THE FOLLOWING EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE SHOWN IN THE PLANS AND SHALL BE IMPLEMENTED DURING CONSTRUCTION:

1. PHASE GRADING WORK TO MINIMIZE THE DURATION THAT ANY DISTURBED SOIL IS EXPOSED.
2. ALL DISTURBED AREAS SHALL HAVE TEMPORARY PROTECTION OR PERMANENT COVER OVER EXPOSED SOIL AREAS IF NOT BEING ACTIVELY GRADED AND/OR IF NOT AT FINAL GRADE WITHIN **14 DAYS** OF DISTURBANCE ACTIVITY TEMPORARILY OR PERMANENTLY CEASING. TEMPORARY SEED MIX 22-111, APPLIED AT A RATE OF 30.5 LBS/ACRE, SHALL BE USED PRIOR TO WINTER, IF SITE NOT SODDED.
3. STRIP AND STOCKPILE TOPSOIL FOR REPLACEMENT OF 6 INCHES OF TOPSOIL OVER TURF AREAS WHEN GRADING IS COMPLETE.
4. PLACE A MINIMUM OF 2 TONS/ACRE OF STRAW ON ALL AREAS AFTER REACHING FINAL GRADE WITH TOPSOIL AND ANCHOR STRAW WITH EITHER A STRAIGHT DISK, HYDROMULCH OR POLYMER.
5. STABILIZATION OF TEMPORARY OR PERMANENT DRAINAGE DITCHES THAT DRAIN WATER FROM THE CONSTRUCTION SITE MUST BE INITIATED WITHIN 24 HOURS OF CONNECTING THE DRAINAGE DITCH TO ANY CONVEYANCE SYSTEM THAT DISCHARGES TO SURFACE WATERS. THE FIRST 200 LINEAR FEET MUST BE STABILIZED WITHIN 24 HOURS. THE REMAINING DITCH SHALL BE STABILIZED WITHIN **14 DAYS**.
6. INSTALL SILT FENCE AROUND ALL TEMPORARY INACTIVE STOCKPILES WHICH ARE NOT PLACED WITHIN EXISTING SILT FENCES OR OTHER PERIMETER CONTROLS.
7. TEMPORARY OR PERMANENT ENERGY DISSIPATION AT PIPE APRON OUTLETS WILL BE PLACED PRIOR TO BUT NO SOONER THAN 7 DAYS BEFORE APRON IS INSTALLED. RIPRAP SHALL BE INSTALLED UNDER APRON LIP ACCORDING TO THE STANDARD DETAIL.
8. SUFFICIENT PERSONNEL, EQUIPMENT, AND MATERIALS SHALL BE MOBILIZED WITHIN 24 HOURS OF A WRITTEN ORDER BY THE OWNER OR OWNER'S REPRESENTATIVE TO CONDUCT CORRECTIVE WORK AND INSTALL TEMPORARY EROSION CONTROL WORK IN THE CASE OF AN EMERGENCY.
9. REMOVE ANY SEDIMENT THAT HAS BEEN TRACKED ONTO PUBLIC STREETS AT THE END OF THE DAY OR WITHIN 24 HOURS OF DETECTION, OR MORE FREQUENT AT DIRECTION OF SITE INSPECTOR.
10. COLLECT ALL CONSTRUCTION DEBRIS IN DUMPSTERS AND ROLL-OFF BOXES, EMPTY WHEN DEBRIS REACHES TOP OF DUMPSTER
11. INSPECT POLLUTION CONTROL MEASURES AS SPECIFIED WITHIN SECTION 11 OF THE GENERAL PERMIT.

- INLET SEDIMENT CONTROL BMP REMOVAL

IF INLET SEDIMENT CONTROLS (WIMCO TYPE OR EQUAL) BMP'S ARE REMOVED FOR FLOODING / FREEZING CONCERNS UPON REQUEST OF THE MUNICIPALITY, WATERSHED DISTRICT OR OTHER AGENCY, DOCUMENTATION SHALL BE ATTACHED TO THE INSPECTION REPORTS AND THIS SWPPP OR BE AVAILABLE WITHIN 72 HOURS OF REQUEST. DOCUMENTATION SHALL BE A WRITTEN FORM OF CORRESPONDENCE VERIFYING THE NEED FOR REMOVAL.

- UPON COMPLETION OF CONSTRUCTION ACTIVITIES

PERMIT TERMINATION CONDITIONS ARE ACHIEVED FOR THE PROJECT WHEN PERMANENT EROSION CONTROL BMP'S ARE APPLIED TO THE SITE. THE PERMANENT EROSION CONTROL BMP'S MAY BE A COMBINED OF VEGETATIVE AND NON-VEGETATIVE COVER TYPES. ADDITIONAL REQUIREMENTS TO ACHIEVING FINAL STABILIZATION PERMIT TERMINATION CONDITIONS INCLUDE :

1. ALL SOIL DISTURBING ACTIVITY IS COMPLETED. ALL DISTURBED AREA WITHOUT PERMANENT IMPERMEABLE SURFACES ARE VEGETATED FOR FINAL STABILIZATION.
2. PERMANENT STORMWATER TREATMENT SYSTEM (IF REQUIRED) IS CONSTRUCTED AND ACCUMULATED SEDIMENT HAS BEEN REMOVED FROM CONSTRUCTION ACTIVITY. CLEAN OUT ALL SEDIMENT FROM CONVEYANCES AND FROM TEMPORARY SEDIMENT BASINS THAT ARE TO BE USED AS PERMANENT WATER QUALITY MANAGEMENT BASINS. THE CLEAN OUT OF PERMANENT BASINS MUST BE SUFFICIENT TO RETURN THE BASIN TO DESIGN CAPACITY.
3. THE VEGETATIVE COVER FOR THE SITE IS AT A DENSITY, WITH UNIFORM PERENNIAL COVER OF 70% OF THE EXPECTED FINAL GROWTH DENSITY.
4. ALL TEMPORARY, SYNTHETIC BMP'S HAVE BEEN REMOVED.

PERMANENT VEGETATION ESTABLISHMENT
PERMANENT TURF SHALL FOLLOW THE RECOMMENDATIONS PER NOTES AND SPECIFICATIONS IN THE GRADING AND/OR LANDSCAPE PLAN. SEED THAT IS TO OCCUR AFTER OCTOBER 20TH SHALL CONFORM TO THE MNDOT SPECIFICATIONS FOR DORMANT SEEDING.

SWPPP INSPECTIONS AND MAINTENANCE

EROSION AND SEDIMENT CONTROL INSPECTIONS
CONSTRUCTION ACTIVITY AND ALL SUPPORT ACTIVITIES MUST BE INSPECTED (USING MPCA CONSTRUCTION STORMWATER INSPECTION CHECKLIST OR AN ALTERNATIVE FORM) WITHIN THE PARAMETERS OF THE SCHEDULE BELOW. THE INSPECTOR SHALL BE A PERSON TRAINED AND FAMILIAR WITH THE REQUIREMENTS OF THIS SWPPPP AND THE MPCA MN R100001 PERMIT. ALTERNATES WILL INCLUDE INDIVIDUALS TO BE DESIGNATED BY THE OWNER AND MAY INCLUDE CONTRACTOR PERSONNEL OR OTHER QUALIFIED INDIVIDUALS AND SHALL BE LISTED IN THE PROJECT CONTACT INFORMATION SECTION OF THIS PLAN

INSPECTION SCHEDULE

- IF THE SITE IS ACTIVE: INSPECTION NEEDED ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A RAINFALL GREATER THAT 0.5 INCHES.
- INACTIVE AND STABILIZED AREAS: INSPECTION NEEDED ONCE EVERY 30 CALENDAR DAYS.
- INACTIVE AREAS WITH FINAL STABILIZATION: INSPECTION NEEDED ONCE EVERY MONTH FOR 12 MONTHS (NOT INCLUDING FROZEN CONDITIONS).
- SUBJECT TO WINTER/FROZEN CONDITIONS: NOT APPLICABLE/NOT NEEDED IF NO CONSTRUCTION ACTIVITY IS OCCURRING.

SCOPE OF INSPECTION SHALL INCLUDE:

1. RECORD DATE AND TIME OF INSPECTION
2. NAME OF PERSON(S) CONDUCTING INSPECTION
3. FINDINGS OF THE INSPECTION
4. LOCATION AND CORRECTIVE ACTIONS NEEDED
5. CORRECTIVE ACTIONS TAKEN (DATE.TIME/BY WHOM)
6. DATE AND AMOUNT OF RAINFALL (RAINFALL AMOUNTS TO BE TAKEN FROM AN ONSITE RAIN GAUGE)
7. OBSERVED DISCHARGES LOCATIONS
8. DESCRIBE DISCHARGE (COLOR, ODOR, FLOATING. SETTLED, SOLIDS, FOAM, OIL SHEEN)
9. THE SITE INSPECTOR WILL VISUALLY CHECK A DISCHARGE FROM A TEMPORARY OR PERMANENT SEDIMENTATION BASIN TO ENSURE ADEQUATE TREATMENT IS OBTAINED AND DISCHARGE WATER WILL NOT CONTRIBUTE EXCESSIVE SEDIMENT OR OTHER NUISANCE CONDITIONS.
10. RECORD CHANGES MADE TO THE SWPPP. AMENDMENTS FROM INSPECTIONS NEED TO BE COMPLETED WITHIN 7 DAYS.
11. ALL INSPECTIONS SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER COMPLETING THE FIELD INSPECTION AND AVAILABLE IN PAPER OR ELECTRONIC FORM ON SITE.

MAINTENANCE OF EROSION AND SEDIMENT CONTROL DEVICES

THE OWNER/CONTRACTOR IS RESPONSIBLE FOR THE OPERATION, MAINTENANCE OF TEMPORARY AND PERMANENT WATER QUALITY MANAGEMENT BMPS AS WELL AS ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS, FOR THE DURATION OF THE CONSTRUCTION WORK AT THE SITE. THE CONTRACTOR MUST INSPECT ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS AND POLLUTION PREVENTION MANAGEMENT MEASURES TO ENSURE INTEGRITY AND EFFECTIVENESS DURING ALL ROUTINE AND POST RAINFALL EVENTS. ALL NONFUNCTIONAL BMPS MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS UNLESS ANOTHER TIME FRAME IS SPECIFIED BELOW.

THE FOLLOWING GUIDELINES WILL BE USED TO DETERMINE IF THE EROSION AND SEDIMENT CONTROL DEVICES REQUIRE MAINTENANCE, REPAIR, OR REPLACEMENT:

1. ALL NON-FUNCTIONAL BMPS - OBSERVED CONDITION; SEDIMENT OVERTOPPING, UNDER WATER, SCOURED ENDS, UNDERMINED, DESTROYED, NON-FUNCTION AS DESIGNED, ETC. - SHALL BE MAINTAINED OR REPLACED BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY OR NOTIFICATION, OR AS SOON AS FIELD CONDITIONS ALLOW.
2. PERIMETER SEDIMENT CONTROL (SILT FENCE, FIBER LOGS, BERMS, ETC.) - OBSERVED CONDITION TO BE 1/2 FULL OF SEDIMENT, FLATTENED TO 1/2 HEIGHT, DRIVEN OVER, UNDERMINED, SCOURED, MOVED FOR ACCESS, ETC. - SHALL BE MAINTAINED, REPAIRED OR SUPPLEMENTATION OF PERIMETER SEDIMENT CONTROL SHOULD BE DONE BY THE END OF NEXT BUSINESS DAY OR AD FIELD CONDITIONS ALLOW.
3. INLET PROTECTION BMPS, CONVEYANCES, SURFACE WATERS - OBSERVED CONDITION; SEDIMENT DEPOSITION, SEDIMENT DELTAS AN ACCUMULATION OF SEDIMENT MATERIAL, DEVICES APPEAR PLUGGED WITH SEDIMENT - REMOVAL/CLEAN OUT OF ACCUMULATED SEDIMENT AND DELTAS TO BE REMOVED WITHIN 7 DAYS, STABILIZE AS NEEDED IF SOILS ARE EXPOSED DURING REMOVAL/CLEAN OUT.
4. TEMPORARY SEDIMENT BASINS AND TRAPS/PERMANENT SEDIMENT BASINS - OBSERVED TO HAVE SEDIMENT DEPOSITION AND ACCUMULATION TO $\frac{1}{2}$ OF THE STORAGE VOLUME - CLEAN OUT, REMOVE ACCUMULATED SEDIMENT MATERIAL WITHIN 7 DAYS OF OBSERVATION, OR AS FIELD CONDITIONS ALLOW ACCESS.
5. SITE EXIT LOCATIONS, ROCK EXIT PADS, OTHER ANTI-TRACKING PRACTICES - OBSERVED TO HAVE ACCUMULATED SEDIMENT IN ROCK OR OTHER ANTI-TRACKING BMP, TRACKING OF SEDIMENT FROM THE SITE ONTO PAVED SURFACES - TOP DRESS ROCK, MAINTAIN ROCK EXIT OR OTHER ANTI-TRACKING CONTROLS, SCRAP PAVED SURFACES, SWEEP PAVED SURFACES WITHIN 1 CALENDAR DAY OF DISCOVERY.
6. PAVED SURFACES AND ADJACENT STREETS - OBSERVED TO BE TRACKED WITH SEDIMENT AND SOIL MATERIAL FRO THE SITE HAULING OR ACCESS - SWEEP WITHIN 1 CALENDAR DAY OF DISCOVERY, ADDITIONAL AND/OR MORE FREQUENT SWEEPING MAY BE NEEDED TO MAINTAIN PUBLIC SAFETY OR PREVENT WASHING FROM FORECASTED RAINS.

TERMINATION OF COVERAGE
THE PROJECT PERMIT MAY BE TERMINATED IN ONE OF THE FOLLOWING SCENARIOS:

1. ALL CONSTRUCTION ACTIVITY IS COMPLETE, TEMPORARY SYNTHETIC BMP'S ARE REMOVED, ACCUMULATED SEDIMENT FROM CONSTRUCTION IS REMOVED, AND PERMANENT COVER HAS BEEN ACHIEVED WITH VEGETATIVE AND/OR NON-VEGETATIVE COVER. THE NOTICE OF TERMINATION FORM FROM THE PCA SHOULD BE COMPLETED WITHIN 30 DAYS OF MEETING THE CONDITIONS ABOVE. UPON MIDNIGHT OF THE POST MARKED DATE, THE PERMIT COVERAGE IS TERMINATED UNLESS OTHERWISE NOTIFIED BY THE MPCA. OR:
2. WITHIN 30 DAYS OF SELLING OR OTHERWISE LEGALLY TRANSFERRING OWNERSHIP OF THE SITE IN IT'S ENTIRETY (INCLUDING STREET SWEEPING AND STORMWATER INFRASTRUCTURE) FROM THE ORIGINAL OWNER TO ANOTHER PARTY TAKING RESPONSIBILITY OF OWNERSHIP. THE TERMINATION IS EFFECTIVE UPON MIDNIGHT OF THE SUBMISSION DATE OF THE NOT. IF A PORTION OF THE SITE IS TRANSFERRED (I.E. OUTLOTS, LOTS/BLOCKS) THAT PORTION OF THE SITE IS TERMINATED FROM THE ORIGINAL PERMIT COVERAGE AT MIDNIGHT OF THE SUBMISSION DATE. OR:
3. PERMIT COVERAGE CAN BE TERMINATED IF ALL OF THE FOLLOWING ARE MET:
   - 3.a. CONSTRUCTION ACTIVITY HAS CEASED FOR 90 DAYS; AND
   - 3.b. AT LEAST 90% OF THE AREA OF THE ORIGINALLY PROPOSED ACTIVITY HAS BEEN COMPLETED AND PERMANENTLY ESTABLISHED WITH VEGETATION OR NON-VEGETATIVE COVER; AND
   - 3.c. WHERE CONSTRUCTION ACTIVITY IS NOT COMPLETE, PERMANENT COVER HAS BEEN ESTABLISHED; AND
   - 3.d. THE SITE IS COMPLIANT WITH PERMIT SECTIONS 13.3 THROUGH 13.7.
4. WHERE THE PROJECT OBTAINED PERMIT COVERAGE BUT NEVER STARTED CONSTRUCTION ACTIVITY DUE TO CANCELLATION OR OTHER REASONS, DOCUMENTATION SHOULD BE SENT TO THE PCA WITH THE NOT FORM AND IS SUBJECT TO PCA APPROVAL.

WHEN SUBMITTING FOR NOT, GROUND OR AERIAL PHOTOGRAPHS MUST BE SUBMITTED SHOWING PERMANENT/VEGETATIVE COVER REQUIREMENTS HAVE BEEN MET.

SWPPP BMP QUANTITIES

SILT FENCE	5161 LF
TEMPORARY SEED MIX (22-111)	15.6 ACRE
PERMANENT SEED MIX (25-131)	15.6 ACRE
EROSION CONTROL BLANKET	5780 SY
ROCK CONSTRUCTION ENTRANCE	1 EACH
STREET SWEEPING	1 EACH

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JACKSON COMMONS PARK

DESIGNED: CLJ
CHECKED: RDR
DRAWN: CLM
HORIZONTAL SCALE: ###
VERTICAL SCALE: ### OR ##

INITIAL ISSUE: 04/15/24
REVISIONS:
1 . .
2 . .
3 . .
4 . .
5 . .

PREPARED FOR:

CITY OF SHAKOPEE
JACKSON TOWNSHIP
SHAKOPEE, MN, 55379

I HEREBY CERTIFY THAT THIS PLAN 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

RYAN M. BLUHM
DATE: 05/03/24 LICENSE NO. 41257

JACKSON COMMONS PARK
SHAKOPEE, MN

Westwood
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Westwood Professional Services, Inc.

SWPPP NARATIVE

PROJECT NUMBER: 0051141.00

SHEET NUMBER: 18 OF 20
DATE: 05/03/24

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SWPPP NOTES

LISTED BELOW ARE ADDITIONAL BMP'S THAT MAY BE CONSIDERED FOR USE IF THE BMP'S IDENTIFIED IN THE EROSION CONTROL PLANS PROVE TO BE INSUFFICIENT. PAYMENT FOR THESE BMP'S MAY ONLY BE MADE IF PRIOR APPROVAL FROM AN OWNER HAS BEEN GIVEN.

1. WORK ADJACENT TO RESIDENTIAL PROPERTIES
   - INSTALL SILT FENCE FOR PERIMETER BARRIER BETWEEN TOE OF FILL AND PROJECT BOUNDARY.
   - INSTALL RUNOFF DIVERSIONS TO TEMPORARY SEDIMENT BASINS IF 10 OR MORE ACRES ARE DRAINING TOWARD THE PROPERTY BOUNDARY.

2. IMPORTANT VEGETATION
   - SAFETY FENCE OR A SIMILAR METHOD OF PROTECTION SHALL BE INSTALLED TO PROTECT IMPORTANT VEGETATION AND PROHIBIT VEHICULAR TRAFFIC.
   - A SECONDARY SILT FENCE SHALL BE INSTALLED AT FIELD OFFICES, STORED EQUIPMENT (INCLUDING VEHICLE PARKING), CONSTRUCTION MATERIAL LOCATIONS, AND TOPSOIL OR FILL STOCKPILES INSTALLED WITHIN A 25- FOOT MINIMUM BUFFER OUTSIDE THE DRIP LINE OF TREES.

3. DITCH PROTECTION (TEMPORARY OR PERMANENT)
   - THE LAST 200 FEET OF ANY DITCH CONNECTING TO A SURFACE WATER SHALL HAVE TEMPORARY OR PERMANENT STABILIZATION MEASURES IN PLACE WITHIN 24 HOURS OF DIRECT CONNECTION TO A SURFACE WATER. DITCHES MAY BE KEPT IN A "SMOOTH" ROUGH GRADED CONDITION IN ORDER TO PROPERLY INSTALL EROSION CONTROL SEEDING, MULCH, MATS AND BLANKETS.
   - STABILIZATION METHODS FOR DITCH BOTTOM WETTED PERIMETER MAY INCLUDE ONE OF THE FOLLOWING OR COMBINATIONS OF EROSION CONTROL BLANKET, MATS, RIPRAP, BIO-ROLLS OR ROCK CHECK DAMS. THE METHOD CHOSEN WILL BE BASED ON AN ANALYSIS OF THE SLOPE AND VELOCITY OF THE RUNOFF. THESE ARE ADDITIONAL BMP'S WHICH MAY BE CONSIDERED FOR USE IF THE BMP'S IDENTIFIED IN THE EROSION CONTROL PLANS PROVE TO BE INSUFFICIENT. PAYMENT FOR THESE BMP'S MAY ONLY BE MADE IF PRIOR APPROVAL FROM AN OWNER HAS BEEN GIVEN.
   - WHERE DITCH GRADES EXCEED 5%, ROCK CHECK DAMS OR EQUIVALENT BMP SHALL BE INSTALLED. CHECK DAMS TO BE SPACED SO THAT THE CREST OF THE DOWNSTREAM DAM IS AT THE ELEVATION OF THE TOE OF THE UPSTREAM DAM. TEMPORARY EROSION CONTROL DEVICES REQUIRED DUE TO CONTRACTORS METHOD OF SEQUENCING THEIR CONSTRUCTION WORK SHALL BE INCIDENTAL TO THE GRADING CONTRACT.
   - ABOVE THE WETTED PERIMETER, THE DITCH WILL BE STABILIZED BY SEEDING AND MULCH AND/OR EROSION CONTROL BLANKETS DEPENDING ON SIDE SLOPE STEEPNESS AND LENGTH.
   - ALL DITCHES WILL BE STABILIZED WITHIN 14 DAYS.

4. LONG-STEEP CUT/FILL SLOPES
   - THERE WILL BE NO UNBROKEN SURFACE SLOPE LENGTHS OF GREATER THAN 75 FEET FOR SLOPES WITH A GRADE OF 3:1 OR STEEPER WITHIN 200 FEET OF SURFACE WATERS. ALL EXPOSED AREAS WITH A CONTINUOUS POSITIVE SLOPE WITHIN 200 FEET OF A SURFACE WATER WILL HAVE A TEMPORARY OR PERMANENT COVER YEAR ROUND. THE EXPOSED SOILS SHALL BE STABILIZED WITHIN 14 DAYS
   - PLANNED SLOPES OF 3:1 (H:V) OR STEEPER AND GREATER THAN 75 FT IN LENGTH WILL BE TEMPORARILY OR PERMANENTLY STABILIZED IN INCREMENTS NOT TO EXCEED 75 FT, PRIOR TO CONSTRUCTION OR DISTURBING A NEW INCREMENT.
   - LONG SLOPES SHOULD BE BROKEN INTO SHORTER LENGTHS BY INSTALLING STRAW BIOROLLS IN INTERLOCKING HERRINGBONES AS SHOWN ON THE GRADING PLAN. IF TEMPORARY SEEDING AND MULCH CAN NOT BE USED ON SLOPES STEEPER THAN 3:1, THEN THE SLOPE MAY BE COVERED WITH TARPS OR PLASTIC SHEETING. TEMPORARY EROSION CONTROL DEVICES REQUIRED DUE TO CONTRACTORS METHOD OF SEQUENCING THEIR CONSTRUCTION WORK SHALL BE INCIDENTAL TO THE GRADING CONTRACT.
   - THE SOIL SURFACE ON RE-VEGETATED SLOPES WILL BE ROUGHENED USING ANY APPROPRIATE IMPLEMENT THAT CAN BE SAFELY OPERATED ON THE SLOPE, SUCH AS BULLDOZERS OR DISKS. THE GROOVES SHALL BE CREATED PERPENDICULAR TO THE SLOPE TO HELP ESTABLISH VEGETATIVE COVER, REDUCE RUNOFF VELOCITY, INCREASE INFILTRATION, AND PROVIDE FOR SEDIMENT TRAPPING.

5. CULVERT INLET/OUTLET PROTECTION
   - SOD MAY BE PLACED AND ANCHORED AT CULVERT INLETS AS SHOWN ON THE GRADING PLAN, UNLESS VELOCITIES REQUIRE RIPRAP.
   - AT LEAST ONE 2-FOOT WIDE STRIP OF SOD OR FIBER BLANKET SHALL BE PLACED ALONG THE EDGES OF CULVERT HEADWALLS AND WINGWALLS AS SHOWN ON THE GRADING AND/OR UTILITY PLANS.
   - RIPRAP AT PIPE APRON OUTLETS WILL BE PLACED PRIOR TO BUT NO SOONER THAN 7 DAYS BEFORE APRON IS INSTALLED. RIPRAP SHALL BE INSTALLED UNDER APRON LIP ACCORDING TO THE STANDARD DETAIL.

6. STORM SEWER INLET PROTECTION
   - STORM DRAIN INLETS SHALL BE PROTECTED UNTIL THE DISTURBED AREAS THAT COULD DISCHARGE TO AN INLET HAVE BEEN STABILIZED.
   - INFRASAFE SEDIMENT CONTROL BARRIERS OR APPROVED EQUAL SHALL BE USED WHEN CASTINGS ARE NOT IN PLACE. AS INDICATED ON THE UTILITY PLAN AND AS APPROVED BY THE OWNER.
   - INFRASAFE DEBRIS COLLECTION DEVICE OR APPROVED EQUIVALENT SHALL BE USED WHEN CASTINGS ARE IN PLACE AS INDICATED ON THE UTILITY PLAN AND AS APPROVED BY THE OWNER.
   - DOCUMENTATION IS NEEDED WITHIN 72 HOURS IF REMOVAL OF PROTECTION BMPS IS NEEDED DUE TO WINTER CONDITIONS OR FLOODING CONCERNS.

7. STORM WATER POND OUTLETS
   - TEMPORARY OR PERMANENT ENERGY DISSIPATION MEASURES SHALL BE IN PLACE AT THE STORM WATER POND OUTLETS WITHIN 24 HOURS OF DIRECT CONNECTION TO A SURFACE WATER.
   - RIPRAP AT PIPE APRON OUTLETS WILL BE PLACED PRIOR TO APRON INSTALLATION AND SHALL BE INSTALLED UNDER THE APRON LIP.
   - POND EMERGENCY SPILLWAYS SHALL BE LINED BASED ON THE DESIGN DISCHARGE FLOW VELOCITY AND AS INDICATED ON GRADING AND/OR UTILITY PLANS.

8. DEEP UTILITIES: WATER AND SANITARY/GAS LINE
   - SILT FENCE OR A SIMILAR TYPE OF PERIMETER CONTROL SHALL BE PLACED DOWN GRADIENT OF THE EXCAVATED SOIL IF WORK IS DONE WITHIN 200 FEET OF WETLANDS OR STREAMS.
   - DISTURBANCE OF CHANNEL BANKS, WETLANDS, AND IMPORTANT VEGETATION AREAS SHALL BE MINIMIZED TO THE EXTENT POSSIBLE.
   - THE UTILITY CONSTRUCTION SITE SHALL BE SEEDED WITH A TEMPORARY
   - SEED MIX AND MULCH AFTER INSTALLATION IF THE SITE WILL BE IDLE FOR 7, 14, OR 21 DAYS DEPENDING UPON SLOPES OF STEEPER THAN 3:1, 3:1 TO 10:1 AND FLATTER THAN 10:1 RESPECTIVELY.

9. STOCKPILES (TEMPORARY AND PERMANENT)
   - LOCATE STOCKPILES A MINIMUM OF 100 FEET FROM CATCH BASIN INLETS, PONDS, AND SITE DRAINAGE ROUTES
   - PERIMETER CONTROLS SUCH AS SILT FENCE SHALL BE INSTALLED AROUND ALL STOCKPILES PRIOR TO INITIATION OF STOCKPILING IF NOT PLACED WITHIN EXISTING SILT FENCES OR OTHER SEDIMENT CONTROL.
   - TEMPORARY SEED AND MULCH SHALL BE USED TO STABILIZE THE STOCKPILES AND THE STOCKPILES SHALL BE SHAPED TO FACILITATE SEEDING AND MINIMIZE EROSION AND SHALL BE SEEDED WITHIN 7 DAYS. TEMPORARY EROSION CONTROL DEVICES REQUIRED DUE TO CONTRACTORS METHOD OF SEQUENCING THEIR CONSTRUCTION WORK SHALL BE INCIDENTAL TO THE GRADING CONTRACT.
   - IF TEMPORARY SEED AND MULCH CANNOT BE USED, THEN THE STOCKPILES SHALL BE COVERED WITH HYDROMULCH, TARPS OR PLASTIC SHEETING AS APPROVED BY THE OWNER.
   - IF STOCKPILES MUST BE PLACED WITHIN A CONVEYANCE A TEMPORARY BYPASS SHALL BE INSTALLED (I.E. PVC PIPE) TO ADEQUATELY CONVEY RUNOFF. TEMPORARY BYPASS BMPS SHALL BE INCIDENTAL TO THE CONTRACT UNLESS PREVIOUSLY APPROVED BY THE OWNER / ENGINEER

10. CONSTRUCTION DEWATERING
    - DURING DEWATERING ACTIVITIES, THE SEDIMENT LADEN WATER CANNOT CAUSE NUISANCE CONDITIONS AND MUST DISCHARGE TO A SEDIMENT CONTROL DESIGNED TO PREVENT DISCHARGE WITH VISUAL TURBIDITY. OPTIONS FOR REDUCING THE TURBIDITY OF THE WATER INCLUDE:
      - CONSTRUCT A TEMPORARY SEDIMENT TRAP FOR TURBID WATER DISCHARGE.
      - USE A PORTABLE SEDIMENT TRAP SYSTEM.
      - APPLY NATURAL BASED FLOCCULENT TECHNOLOGY SUCH AS CHITOSAN IN SEDIMENT TRAPS OR A SERIES OF DITCH CHECKS TO CONTAIN SEDIMENT.
      - USE A FILTER BAG SYSTEM
      - PUMP TO A TEMPORARY SEDIMENT BASIN.
    - TO THE EXTENT FEASIBLE, USE WELL-VEGETATED UPLAND AREAS OF THE SITE TO INFILTRATE DEWATERING WATER BEFORE DISCHARGE.
    - ENERGY DISSIPATION WILL BE PROVIDED AT ALL DISCHARGE POINTS.
    - DEWATERING OR BASIN DRAINING ACTIVITIES WILL NOT CAUSE EROSION IN RECEIVING CHANNELS OR ADVERSELY IMPACT WETLANDS.
    - DEWATERING DISCHARGE MUST BE VISUALLY CHECKED. PHOTOGRAPH DISCHARGE AT THE BEGINNING AND AT LEAST EVERY 24 HOURS OF OPERATION. DEWATERING THAT ONLY LASTS FOR A FEW MINUTES, AS OPPOSED TO HOURS, AND DO NOT REACH SURFACE WATERS, DO NOT REQUIRE PHOTOGRAPHS OR DOCUMENTATION.
    - IF NUISANCE CONDITIONS RESULT (SEDIMENT PLUME IN THE DISCHARGE, DISCHARGE APPEARS CLOUDY OR OPAQUE, HAS A VISIBLE CONTRAST, HAS A VISIBLE OIL FILM, HAS AQUATIC HABITAT DEGRADATION), DEWATERING MUST BE CEASED IMMEDIATELY AND CORRECTIVE ACTIONS MUST OCCUR BEFORE DEWATERING IS RESUMED.
    - ALL EROSION CONTROL OR SEDIMENT TRAPS REQUIRED FOR CONSTRUCTION DEWATERING SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION ACTIVITY REQUIRING DEWATERING.

11. CONSTRUCTION ENTRANCES
    - A TEMPORARY CRUSHED ROCK OR WOOD CHIP PAD SHALL BE LOCATED WHERE VEHICLES LEAVE THE CONSTRUCTION SITE.
    - THE CONSTRUCTION ENTRANCE PAD SHALL BE AT LEAST 50 FEET IN LENGTH.
    - GEOTEXTILE FABRIC MAY BE PLACED UNDER THE CRUSHED ROCK OR WOOD CHIPS TO PREVENT MIGRATION OF MUD FROM UNDERLYING SOIL INTO THE CONSTRUCTION ENTRANCE MATERIAL.
    - ROCK PADS SHALL BE CONSTRUCTED OF ROCK 1 TO 3 INCHES IN SIZE AND PLACED IN 6 INCH LAYERS.
    - CONSTRUCTION ENTRANCES SHALL BE INSPECTED AT LEAST EVERY 7 DAYS AND MAINTAINED AS NEEDED.
    - TRACKED SEDIMENTS SHALL BE REMOVED FROM PAVED SURFACES AT THE END OF EACH DAY USING PICK-UP TYPE STREET SWEEPER.
    - IF TRACKING INTO ROADWAY BECOMES PROBLEMATIC THE ENTRANCE PADS SHALL BE LENGTHENED OR ANOTHER TECHNIQUE APPLIED. TEMPORARY EROSION CONTROL DEVICES REQUIRED DUE TO CONTRACTORS METHOD OF SEQUENCING THEIR CONSTRUCTION WORK SHALL BE INCIDENTAL TO THE GRADING CONTRACT.
    - THE CONSTRUCTION ENTRANCE SHALL BE MONITORED CLOSELY DURING WET CONDITIONS. IF TRACKING INTO ADJACENT ROADWAYS OCCURS, THE FREQUENCY OF STREET SWEEPING SHALL BE INCREASED.

12. CONCRETE TRUCK WASHOUT
    - CONCRETE TRUCKS SHALL UTILIZE THE CONCRETE WASHOUT AREA SHOWN ON THE PLANS TO WASH AND RINSE THEIR EQUIPMENT PRIOR TO LEAVING THE SITE.
    - WASHOUT OF CONCRETE MIXER TRUCKS WILL BE PERFORMED IN THE DESIGNATED AREAS ONLY.
    - WASHOUTS WILL BE CONSTRUCTED AND MAINTAINED TO PROVIDE SUFFICIENT CONTAINMENT FOR ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
    - WASHOUTS SHALL BE CLEARLY MARKED ON SITE WITH SIGNAGE BY THE UTILITY CONTRACTOR WITH APPROVAL FROM OWNER.
    - WASHOUTS SHALL BE LOCATED A MINIMUM OF 50 FEET FROM DRAINAGE FACILITIES AND WATERCOURSES.
    - CONCRETE WASHOUT AREAS WILL HAVE AN IMPERMEABLE LINER TO PREVENT CONCRETE WASHOUT WATER FROM INFILTRATING/CONTACTING WITH SOIL.
    - IMPERMEABLE LINER SHALL CONSIST OF 10 MIL POLYLINER.
    - WASHOUT SYSTEMS CAN BE USED AS ALTERNATE WASHOUT AREAS.

13. VEHICLE MAINTENANCE
    - ROUTINE MAINTENANCE OF VEHICLES AND EQUIPMENT SHALL OCCUR IN STAGING AREAS ONLY.
    - VEHICLE WASHING SHOULD BE AVOIDED. IF WASHING IS NECESSARY, RUNOFF FROM THE WASHING WILL BE CONTAINED AND LIMITED TO A DEFINED AREA OF THE SITE. RUNOFF MUST BE CONTAINED AND WASTE PROPERLY DISPOSED OF.
    - ENGINE DEGREASING SHALL BE AVOIDED. IF DEGREASING IS NECESSARY, RUNOFF FROM THE OPERATION WILL BE CONTAINED IN A LINED SEDIMENT TRAP AND PROPERLY DISPOSED OF AT A TREATMENT FACILITY.
    - ALL REQUIRED SEDIMENT TRAPS AND CONTAINMENT FACILITIES AND PROPER DISPOSAL OF WASH WATER/DEGREASING AT A TREATMENT FACILITY SHALL BE INCIDENTAL TO THE CONSTRUCTION CONTRACT.

14. FUELING
    - ANY FUEL TANK OR TRUCK STORED ON THE PROJECT SITE SHALL BE PROTECTED BY A SECONDARY CONTAINMENT SYSTEM.
    - FUELING AREAS SHALL NOT BE WASHED OR RINSED WITH WATER SINCE THIS COULD CAUSE FUEL SPILLS TO BE DISCHARGED INTO STORM WATER SYSTEMS.
    - ABSORBENT MATERIALS SHALL BE AVAILABLE ON SITE FOR USE IN CLEANING UP SMALL SPILLS.
    - ALL REQUIRED FUEL CONTAINMENT AND CLEAN-UP MATERIALS AND THE PROPER DISPOSAL OF THE MATERIALS SHALL BE INCIDENTAL TO THE CONSTRUCTION CONTRACT.

15. HAZARDOUS MATERIALS
    - HAZARDOUS MATERIALS SHALL BE PROPERLY STORED TO PREVENT VANDALISM OR UNAUTHORIZED ACCESS.
    - CONTAINMENT UNITS SHALL BE INSTALLED IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
    - MPCA STORING AND DISPOSAL REQUIREMENTS SHALL BE FOLLOWED FOR ALL HAZARDOUS WASTE.
    - NO HAZARDOUS MATERIAL SHOULD BE STORED WITHIN 200 FEET OF AN IDENTIFIED CRITICAL AREA.
    - ABSORBENT MATERIALS SHALL BE AVAILABLE FROM THE CONTRACTOR ON SITE FOR USE IN CLEANING UP SMALL SPILLS.
    - IF BUILDING MATERIALS, CHEMICALS, OR GENERAL REFUSE IS BEING USED, STORED, DISPOSED OF, OR OTHERWISE MANAGED INAPPROPRIATELY, THE CONTRACTOR SHALL CORRECT SUCH DEFECTS WITHIN 24 HOURS OF DETECTION OR NOTIFICATION.
    - ALL REQUIRED CONTAINMENT / STORAGE UNITS / ABSORBENT MATERIAL AND REQUIRED DISPOSAL SHALL BE INCIDENTAL TO THE CONSTRUCTION CONTRACT.

16. CHEMICAL CONTAINMENT
    - GASOLINE, OIL, PAINT, SOLVENTS, AND OTHER CHEMICALS NECESSARY FOR CONSTRUCTION ARE NOT ALLOWED TO CONTACT THE GROUND SURFACE, BE EXPOSED TO GROUNDWATER OR BE RELEASED TO A SURFACE OR GROUNDWATER EXCEPT IN DE MINIMIS QUANTITIES.
    - ALL PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINER, WITH ORIGINAL LABELS STILL ATTACHED, UNLESS THE CONTAINER IS NOT RESEALABLE.
    - HAZARDOUS MATERIALS SHALL BE RETURNED TO THE HAZARDOUS MATERIAL STORAGE AREA AT THE END OF EACH DAY.
    - AN EFFORT SHOULD BE MADE TO STORE ONLY ENOUGH PRODUCTS TO DO THE REQUIRED JOB.
    - THE CONTRACTOR SHALL PROVIDE TANKS OR BARRELS TO COLLECT LIQUID BYPRODUCTS THAT POSE A POLLUTION HAZARD.
    - THE POLLUTANTS SHALL BE REMOVED FROM THE SITE ON A WEEKLY BASIS AND DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
    - ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY, IN ACCORDANCE WITH THE MANUFACTURE'S RECOMMENDED METHODS.
    - ALL REQUIRED CONTAINMENT / STORAGE UNITS / ABSORBENT MATERIAL AND REQUIRED DISPOSAL SHALL BE INCIDENTAL TO THE CONSTRUCTION CONTRACT
    - ALL STORAGE AREAS SHALL BE SECURED TO PREVENT UNAUTHORIZED ACCESS.

17. SOLID WASTE
    - SOLID WASTE SHALL BE STORED IN APPROPRIATE CONTAINERS AND PROPERLY DISPOSED OF ON A REGULAR BASIS.
    - CONTAINERS SHALL BE COVERED TO PREVENT WIND BLOWING THE WASTE AROUND THE SITE.
    - MPCA DISPOSAL REQUIREMENTS WILL BE FOLLOWED FOR ALL SOLID WASTE.
    - SOLID WASTE STORAGE CONTAINERS AND PROPER DISPOSAL SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION CONTRACT.

18. DUST CONTROL
    - THE CONTRACTOR SHALL USE A VARIETY OF DUST CONTROL INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
      - A. RAPID STABILIZATION METHODS ON SLOPES
      - B. WATER ON ROADWAYS AND GRADED AREAS
      - C. ALTERNATIVES: IN THE FORM OF VEGETABLE POLYMERS, WATER AND CALCIUM CHLORIDE PETROLEUM EMULSION RESINS, OR ACRYLIC COPOLYMERS MAY ALSO BE USED.
    - ALL REQUIRED DUST CONTROL SHALL BE INCIDENTAL TO THE CONSTRUCTION CONTRACT AS PER SPECIFICATIONS.

19. WINTER STABILIZATION
    - COVER EXPOSED SOILS ON OR AROUND NOV. 15TH AND/OR PRIOR TO TERMINATION OF CONSTRUCTION ACTIVITIES FOR WINTER
    - ALL EXPOSED SOILS TO BE COVERED WITH 2 TONS TYPE 1 MULCH
    - ALL EXPOSED SOILS TO BE SEEDED WITH MNDOT SEED MIX 21-112ALL LOW POINTS IN ROADS TO BE ADEQUATELY DRAINED IN ACCORDANCE WITH NPDES DEWATERING REQUIREMENTS PART IV. CONSTRUCTION ACTIVITY REQUIREMENTS. SECTION D. DEWATERING AND BASIN DRAINING.
    - PERIMETER SILT FENCE OR OTHER CONTROLS TO BE INSTALLED 3-5 FEET FROM THE BACK OF THE CURB AND OUT OF THE PLOWED SNOW AREA.
    - PERIMETER CONTROLS AROUND PERMANENT STORMWATER BASINS TO BE INSTALLED AND MAINTAINED
    - INLET CONTROLS TO BE REMOVED ACCORDING TO LEGAL REQUIREMENTS WITH DOCUMENTATION WITHIN 72 HOURS FROM LEGAL AUTHORITY.
    - IF WORK HAS OCCURRED NEAR OR IN STREAMS OR OTHER SURFACE WATERS, THE EXPOSED SOILS SHALL BE STABILIZED TO PROTECT AGAINST FLOODING AND SPRING RUNOFF TO THE 100-YR FLOOD ELEVATION.
    - ALL TEMPORARY AND PERMANENT STORMWATER BASINS AND SEDIMENT BASINS SHOULD HAVE OUTLETS AND STABILIZED EMERGENCY OVERFLOWS INSTALLED AS PER THE GRADING AND/OR UTILITY PLAN AND AT THE APPROVAL OF THE OWNER.

20. NON-STORMWATER DEWATERING
    - HYDRANT FLUSHING: FLUSHING OF HYDRANTS WILL BE DISCHARGED
    - THROUGH TEMPORARY PIPES AS NECESSARY, ONTO IMPERVIOUS SURFACES OR TO STABILIZED ARES WITH ENERGY DISSIPATION AT THE DISCHARGE POINT. THE DISCHARGE SHOULD BE COLLECTED BY THE STORM WATER BASINS AND STORM SEWER SYSTEM.
    - POTABLE WATER DISCHARGE: ALL WATER LINES WILL BE FLUSHED USING HOSES AND DISCHARGED ONTO AN IMPERVIOUS SURFACE AND DIRECTED TO THE STORM SEWER INFRASTRUCTURE BY NON-EROSIVE MEANS.

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JACKSON COMMONS PARK

DESIGNED: CLJ
CHECKED: RDR
DRAWN: CLM
HORIZONTAL SCALE: ###
VERTICAL SCALE: ### OR ##

INITIAL ISSUE: 04/15/24
REVISIONS:
1 . .
2 . .
3 . .
4 . .
5 . .

PREPARED FOR:

CITY OF SHAKOPEE
JACKSON TOWNSHIP
SHAKOPEE, MN, 55379

I HEREBY CERTIFY THAT THIS PLAN 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.

RYAN M. BLUHM
DATE: 05/03/24 LICENSE NO. 41257

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Westwood Professional Services, Inc.

SWPPP NOTES

PROJECT NUMBER: 0051141.00

SHEET NUMBER: 19 OF 20
DATE: 05/03/24

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VICINITY MAP/IMPAIRED WATERS MAP

INFEASIBILITY DETERMINATION (ITEMS 5.13, 5.14 AND 5.15)
TEMPORARY SEDIMENT BASIN
IF PERMITTEE DETERMINES A TEMPORARY SEDIMENT BASIN TO MEET SECTION 14 IS INFEASIBLE, DOCUMENT THIS DETERMINATION; PERMITTEES TO CONSIDER PUBLIC SAFETY, SITE FACTORS SUCH AS SITE SOILS, SLOPE, AND AVAILABLE AREA ON SITE.

BUFFER ZONE AS DESCRIBED IN PERMIT ITEMS 9.17 AND 23.11

Call 48 Hours before digging:
811 or call811.com
Common Ground Alliance

SWPPP AMENDMENTS
THIS PLAN AND THE ATTACHMENTS MUST BE AMENDED WITHIN 7 DAYS TO INCLUDE ADDITIONAL REQUIREMENTS OR MODIFIED REQUIREMENTS WHICH TAKE PLACE DURING CONSTRUCTION IF ONE OR MORE OF THE FOLLOWING OCCUR:

1. THERE IS A CHANGE IS DESIGN CONSTRUCTION, OPERATION, MAINTENANCE, WEATHER OR SEASONAL CONDITIONS THAT SIGNIFICANTLY IMPACTS THE DISCHARGE OF POLLUTANTS FROM THE SITE TO SURFACE OR GROUNDWATER.
2. INSPECTIONS OR INVESTIGATIONS BY THE SITE OWNER, OPERATOR, ENVIRONMENTAL PROTECTION AGENCY, MINNESOTA POLLUTION CONTROL AGENCY OFFICIALS INDICATE THIS PLAN IS NOT EFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING THE DISCHARGE OF POLLUTANTS.
3. THIS SWPPP IN NOT ACHIEVING THE GENERAL OBJECTIVES OF MINIMIZING POLLUTANTS IN STORMWATER DISCHARGES OR IF THIS PLAN IS NOT CONSISTENT WITH THE MN R1000011 CONSTRUCTION GENERAL PERMIT.
4. IF THE MPCA NOTIFIES THE OWNER AND/OR OPERATOR (i.e. PERMITTEES) THAT ADDITIONAL REQUIREMENTS ARE NEEDED, REQUIREMENTS ARE NOT BEING NET FOR TMDL OR OTHER WATER QUALITY STANDARDS, OR THAT THE SWPPP DID NOT INCORPORATE THE NECESSARY REQUIREMENTS.
5. CHANGES INVOLVING THE USE OF A LESS STRINGENT BMP MUST INCLUDE A JUSTIFICATION DESCRIBING HOW THE REPLACEMENT BMP IS EFFECTIVE FOR THE SITE CHARACTERISTICS.

THE FOLLOWING TABLE SHOULD BE COMPLETED AS NECESSARY DURING CONSTRUCTION TO DOCUMENT CHANGES AND AMENDMENTS TO THIS DOCUMENT. AMENDMENTS MUST BE MADE BY ONE OF THE FOLLOWING INDIVIDUALS:THOSE PREPARING THIS DOCUMENT; THOSE OVERSEEING THE IMPLEMENTATION OF THE SWPPP; THOSE REVISING THE SWPPP; THOSE PERFORMING INSPECTIONS FOR THE PROJECT; AND/OR OTHER QUALIFIED INDIVIDUAL.

PLACE THE AMENDMENT NUMBER NEXT TO ALL APPLICABLE CHANGES, REDLINES, AND INFORMATION IN THE DOCUMENT TO REFERENCE BACK TO THE CHANGES SUMMARIZED BELOW.

AMENDMENT NO.	DATE	REASON, LOCATION, AND BRIEF DESCRIPTION OF CHANGE OR AMENDMENT	REQUESTED BY	PREPARED BY

N:\0051141.00\DWG\CIVIL\PARK PLAN\0051141.00C-SWPP01.DWG

JACKSON COMMONS PARK

DESIGNED: CLJ
CHECKED: RDR
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HORIZONTAL SCALE: ###
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INITIAL ISSUE: 04/15/24
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RYAN M. BLUHM
DATE: 05/03/24 LICENSE NO. 41257

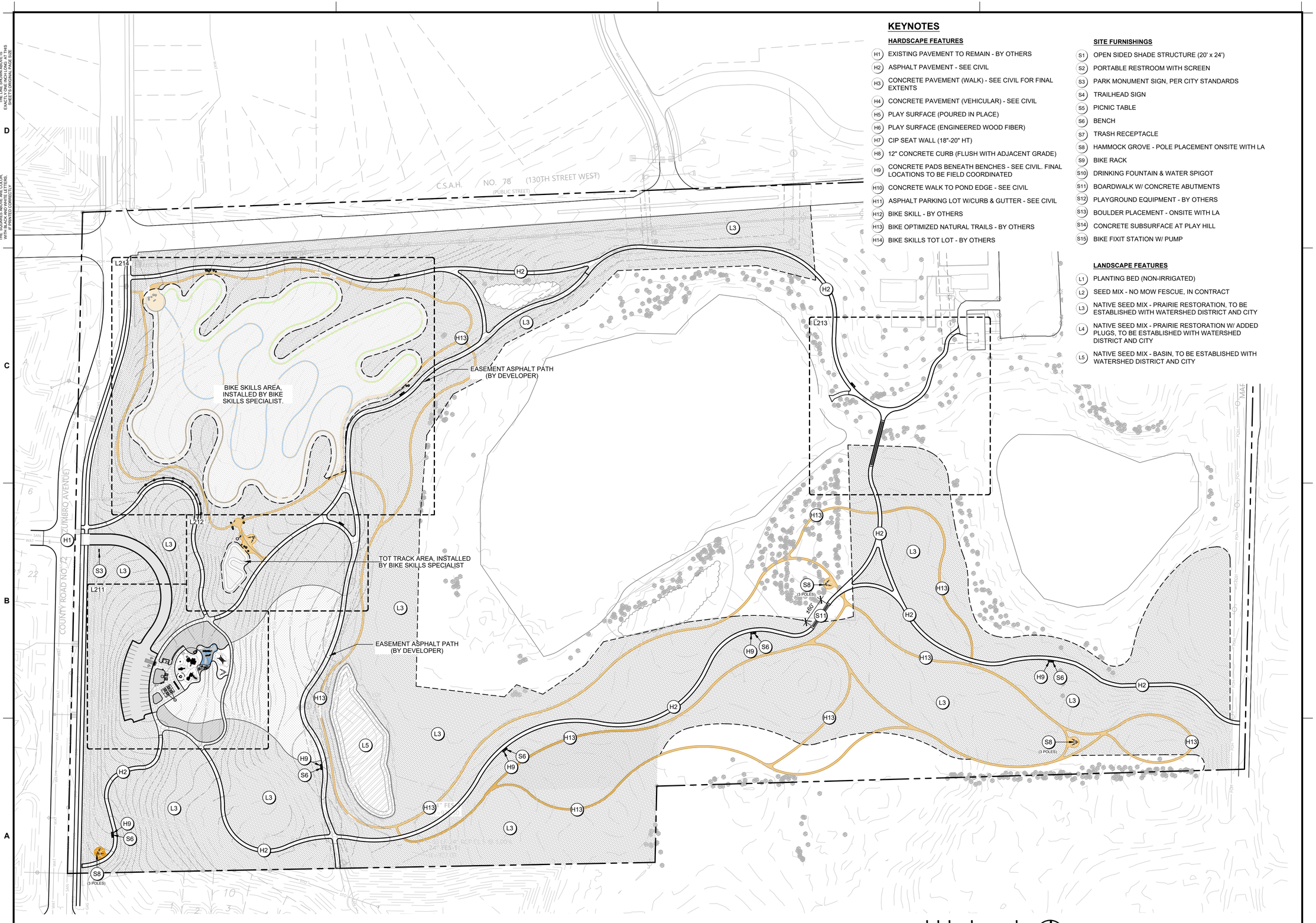
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SWPPP MAPS

PROJECT NUMBER: 0051141.00

SHEET NUMBER: 20 OF 20
DATE: 05/03/24



KEYNOTES

HARDSCAPE FEATURES

- H1 EXISTING PAVEMENT TO REMAIN - BY OTHERS
- H2 ASPHALT PAVEMENT - SEE CIVIL
- H3 CONCRETE PAVEMENT (WALK) - SEE CIVIL FOR FINAL EXTENTS
- H4 CONCRETE PAVEMENT (VEHICULAR) - SEE CIVIL
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- H12 BIKE SKILL - BY OTHERS
- H13 BIKE OPTIMIZED NATURAL TRAILS - BY OTHERS
- H14 BIKE SKILLS TOT LOT - BY OTHERS

SITE FURNISHINGS

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LANDSCAPE FEATURES

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- L2 SEED MIX - NO MOW FESCUE, IN CONTRACT
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01 L210 OVERALL SITE LAYOUT PLAN

SCALE 0' 50' 100' 200'

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NAME: TERRY MINARIK
SIGNATURE:
DATE: 4/15/2024
LIC. No: 4242

Revision Schedule

No.	Date	Description
	4/15/2024	95% CD SET

JACKSON COMMONS PARK
CITY OF SHAKOPEE
JACKSON TOWNSHIP
SHAKOPEE, MN, 55379

Project Number	23551
Issue	00000
Date	YYYY-MM-DD

OVERALL SITE LAYOUT PLAN

L210

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PLAY AREA NOTES

PLAY EQUIPMENT BY OTHERS & TO BE COORDINATED WITH CITY, LA, AND PLAY MANUFACTURER.

PLAY EQUIPMENT COLORS AND FINISHES TO BE COORDINATED WITH CITY, LA, AND PLAY MANUFACTURER.

FINAL LOCATION OF PLAY EQUIPMENT TO BE COORDINATED WITH CITY, LA, AND PLAY MANUFACTURER.

PIP RUBBER SURFACE AT HILL PLAY AREA AND TO BE DESIGNED TO THE THICKNESS TO ACHIEVE FALL ZONE REQUIREMENTS OF PLAY EQUIPMENT. SEE PRODUCT SPECIFICATIONS FOR THE EXTENTS OF THE FALL ZONE.

SURFACE SHALL BE THICKER IN FALL ZONES. COORDINATE WITH INSTALLER & PLAY EQUIPMENT MANUFACTURER.

RE-USE ONSITE / SALVAGED BOULDERS - (2-3) LARGE BOULDERS AND (6-8) SMALL BOULDERS. COORDINATE LOCATION AND PLACEMENT WITH LA IN FIELD.

01 L211 SITE LAYOUT PLAN - ENLARGEMENT

SCALE 0' 10' 20' 40'

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NAME: TERRY MINARIK
SIGNATURE:
DATE: 4/15/2024
LIC. No: 4242

Revision Schedule

No.	Date	Description
	4/15/2024	95% CD SET

JACKSON COMMONS PARK
CITY OF SHAKOPEE
JACKSON TOWNSHIP
SHAKOPEE, MN, 55379

Project Number	23551
Issue	00000
Date	YYYY-MM-DD

SITE LAYOUT PLAN - ENLARGEMENT

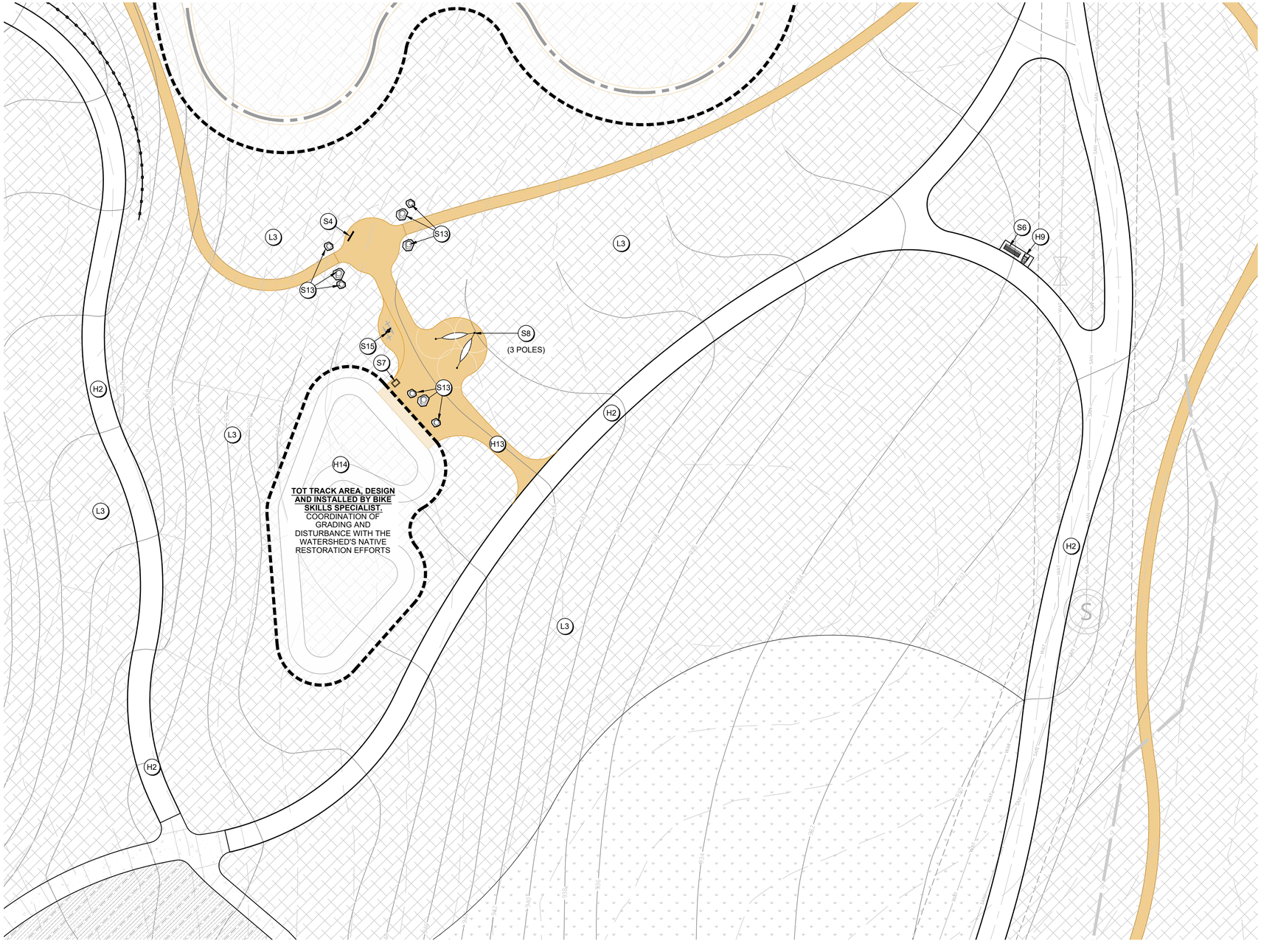
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KEYNOTES

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01 L212 SITE LAYOUT PLAN - ENLARGEMENT

SCALE 0' 10' 20' 40'

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JACKSON COMMONS PARK
CITY OF SHAKOPEE
JACKSON TOWNSHIP
SHAKOPEE, MN, 55379

Project Number	23551
Issue	00000
Date	YYYY-MM-DD

SITE LAYOUT PLAN - ENLARGEMENT

L212

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- S11 BOARDWALK W/ CONCRETE ABUTMENTS
- S12 PLAYGROUND EQUIPMENT - BY OTHERS
- S13 BOULDER PLACEMENT - ONSITE WITH LA
- S14 CONCRETE SUBSURFACE AT PLAY HILL
- S15 BIKE FIXIT STATION W/ PUMP

LANDSCAPE FEATURES

- L1 PLANTING BED (NON-IRRIGATED)
- L2 SEED MIX - NO MOW FESCUE, IN CONTRACT
- L3 NATIVE SEED MIX - PRAIRIE RESTORATION, TO BE ESTABLISHED WITH WATERSHED DISTRICT AND CITY
- L4 NATIVE SEED MIX - PRAIRIE RESTORATION W/ ADDED PLUGS, TO BE ESTABLISHED WITH WATERSHED DISTRICT AND CITY
- L5 NATIVE SEED MIX - BASIN, TO BE ESTABLISHED WITH WATERSHED DISTRICT AND CITY

01 L213 SITE LAYOUT PLAN - ENLARGEMENT

SCALE

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CONFLUENCE
901 North Third Street, Suite 225
Minneapolis, MN 55401
612.333.3702
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Minnetonka, MN 55343
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NAME: TERRY MINARIK
SIGNATURE:
DATE: 4/15/2024
LIC. No: 4242

Revision Schedule

No.	Date	Description
	4/15/2024	95% CD SET

JACKSON COMMONS PARK
CITY OF SHAKOPEE
JACKSON TOWNSHIP
SHAKOPEE, MN, 55379

Project Number	23551
Issue	00000
Date	YYYY-MM-DD

SITE LAYOUT PLAN - ENLARGEMENT

L213

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KEYNOTES

HARDSCAPE FEATURES

- H1 EXISTING PAVEMENT TO REMAIN - BY OTHERS
- H2 ASPHALT PAVEMENT - SEE CIVIL
- H3 CONCRETE PAVEMENT (WALK) - SEE CIVIL
- H4 CONCRETE PAVEMENT (VEHICULAR) - SEE CIVIL FOR FINAL EXTENTS
- H5 PLAY SURFACE (POURED IN PLACE)
- H6 PLAY SURFACE (ENGINEERED WOOD FIBER)
- H7 CIP SEAT WALL (18"-20" HT)
- H8 12" CONCRETE CURB (FLUSH WITH ADJACENT GRADE)
- H9 CONCRETE PADS BENEATH BENCHES - SEE CIVIL. FINAL LOCATIONS TO BE FIELD COORDINATED
- H10 CONCRETE WALK TO POND EDGE - SEE CIVIL
- H11 ASPHALT PARKING LOT W/CURB & GUTTER - SEE CIVIL
- H12 BIKE SKILL - BY OTHERS
- H13 BIKE OPTIMIZED NATURAL TRAILS - BY OTHERS
- H14 BIKE SKILLS TOT LOT - BY OTHERS

SITE FURNISHINGS

- S1 OPEN SIDED SHADE STRUCTURE (20' x 24')
- S2 PORTABLE RESTROOM WITH SCREEN
- S3 PARK MONUMENT SIGN
- S4 TRAILHEAD KIOSK SIGN
- S5 PICNIC TABLE
- S6 BENCH
- S7 TRASH RECEPTACLE
- S8 HAMMOCK GROVE - POLE PLACEMENT ONSITE WITH LA
- S9 BIKE RACK
- S10 DRINKING FOUNTAIN & WATER SPIGOT
- S11 BOARDWALK W/ CONCRETE ABUTMENTS
- S12 PLAYGROUND EQUIPMENT - BY OTHERS
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LANDSCAPE FEATURES

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BIKE LINES

- BEGINNER LEVEL
- INTERMEDIATE LEVEL
- EXPERT LEVEL

BIKE SKILLS FEATURES

- B1 SIDE BERM
- B2 MOUNDED JUMP
- B3 WOODEN JUMP FEATURE

01 L214 BIKE SKILLS LAYOUT PLAN

SCALE 0' 15' 30' 60'

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NAME: TERRY MINARIK
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Revision Schedule

No.	Date	Description
	4/15/2024	95% CD SET

JACKSON COMMONS PARK
CITY OF SHAKOPEE
JACKSON TOWNSHIP
SHAKOPEE, MN, 55379

Project Number	23551
Issue	00000
Date	YYYY-MM-DD

BIKE SKILLS LAYOUT PLAN

L214

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PLANTING HATCH LEGEND

- PLANTING BED (NON-IRRIGATED)
- SEED MIX - NO MOW FESCUE, IN CONTRACT
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PLANT SCHEDULE TRAIL SYSTEM						
SYMBOL	QTY	COMMON / BOTANICAL NAME	CONT	CAL	SIZE	DETAIL
DECIDUOUS TREES						
	20	Red Maple / Acer rubrum	B & B	2.5"Cal		
	20	Common Hackberry / Celtis occidentalis	B & B	2.5"Cal		
	8	Summer Shimmer™ Quaking Aspen / Populus tremuloides 'Select Klaus'	B & B	2.5"Cal		
	25	Swamp White Oak / Quercus bicolor	B & B	2.5"Cal		
	7	Northern Pin Oak / Quercus ellipsoidalis	B & B	2.5"Cal		
	20	Burr Oak / Quercus macrocarpa	B & B	2.5"Cal		
EVERGREEN TREES						
	30	Eastern Red Cedar / Juniperus virginiana	B & B		6-7`	
	12	Tamarack / Larix laricina	B & B		6-7`	
SYMBOL	QTY	COMMON / BOTANICAL NAME	CONT			DETAIL
SHRUBS						
	125	Staghorn Sumac / Rhus typhina	5 gal			

ANTICIPATED SEEDING LIMITS

ANTICIPATED SEEDING LIMITS

L411 ENLARGEMENT

ANTICIPATED SEEDING LIMITS

01 L410 PLANTING PLAN

SCALE 0' 50' 100' 200'

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JACKSON TOWNSHIP
SHAKOPEE, MN, 55379

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PLANTING PLAN

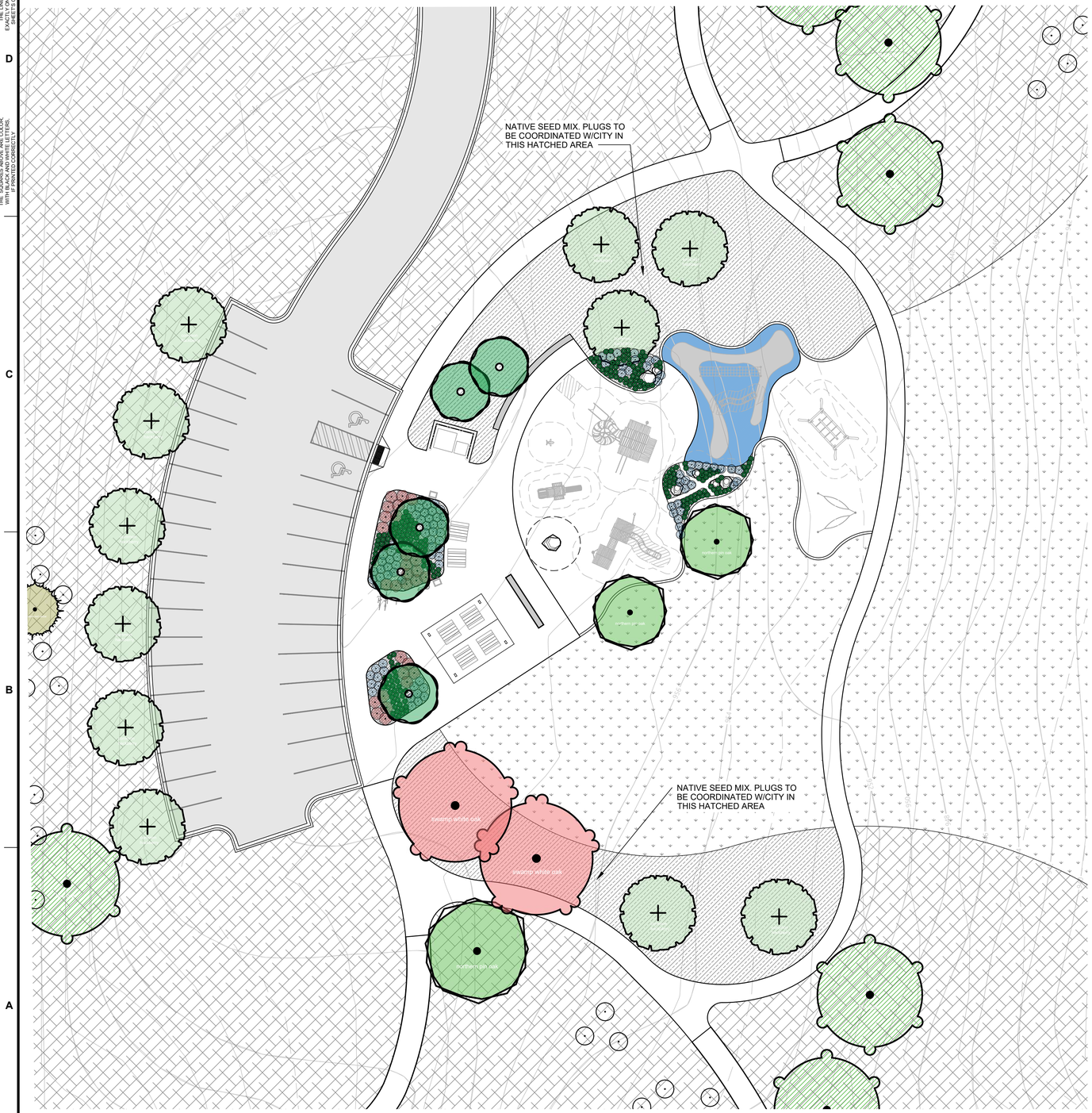
L410

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PLANT SCHEDULE ENTRY/ PLAYGROUND				
SYMBOL	QTY	COMMON / BOTANICAL NAME	CONT	CAL
DECIDUOUS TREES				
	2	AUTUMN BLAZE MAPLE / ACER X FREEMANII `JEFFSRED` TM	B & B	2.5"CAL
	11	COMMON HACKBERRY / CELTIS OCCIDENTALIS	B & B	2.5"CAL
	5	TRUE NORTH KENTUCKY COFFEETREE / GYMNOCLADUS DIOICA 'UMNSYNERGY' TM	B & B	2.5"CAL
	2	SWAMP WHITE OAK / QUERCUS BICOLOR	B & B	2.5"CAL
SYMBOL	QTY	COMMON / BOTANICAL NAME	CONT	
SHRUBS				
	28	GRO-LOW FRAGRANT SUMAC / RHUS AROMATICA `GRO-LOW`	2 GAL	
	94	SEM ASH LEAF SPIREA / SORBARIA SORBIFOLIA `SEM`	2 GAL	
PERENNIALS				
	215	SHENANDOAH SWITCH GRASS / PANICUM VIRGATUM `SHENANDOAH`	1 GAL	

NOTES:

-ALL KENTUCKY COFFEE(GYMNOCLADUS DIOICA) TREES TO BE OF THE MALE VARIETY

01 L211 SITE LAYOUT PLAN - ENLARGEMENT

SCALE 0' 10' 20' 40'

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CITY OF SHAKOPEE
JACKSON TOWNSHIP
SHAKOPEE, MN, 55379

Project Number	23551
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Date	YYYY-MM-DD

PLANTING PLAN

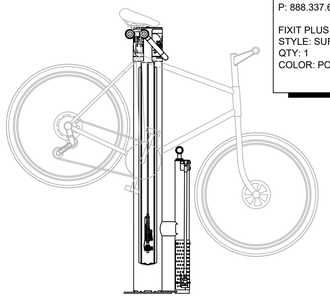
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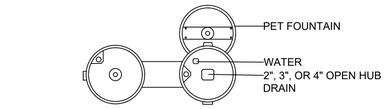
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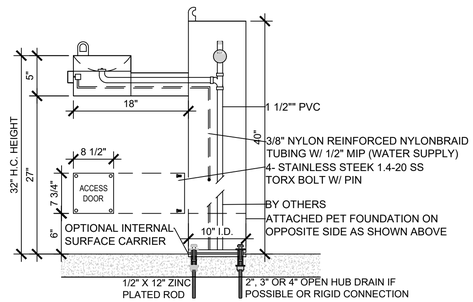
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DERO (OR APPROVED EQUAL)
CONTACT: WWW.DERO.COM
P: 888.337.6729

FIXIT PLUS & AIR KIT PRIME
STYLE: SURFACE MOUNT
QTY: 1
COLOR: POWDER COAT SILVER

05 L510 BIKE FIXIT STATION W/ PUMP SCALE: 3/4" = 1'-0"



PLAN

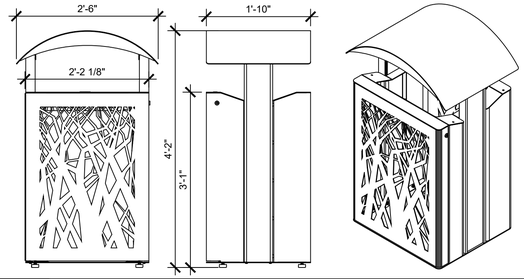


ELEVATION

OWNER TO PROVIDE. CONTRACTOR TO INSTALL. FOR REFERENCE ONLY
MOST DEPENDABLE FOUNTAIN
CONTACT: mdf@mostdependable.com
P: 901-867-0039

440 SMSS W/ PET FOUNTAIN
QTY: 1
COLOR: SILVER

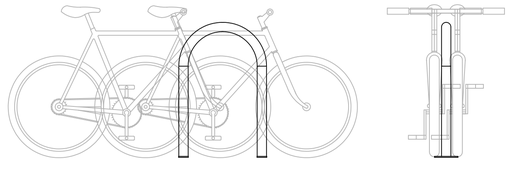
06 L510 DRINKING WATER FOUNTAIN SCALE: 3/4" = 1'-0"



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ANOVA
CONTACT: DAN SCHWERMER
E: dan.s@anovafurnishings.com
P: 314.680.2499

AIRI STIX 45-GALLON TRASH RECEPTACLE W/ SIDE DOOR, CURVE TOP
STYLE: #AE2645CBT-STX
QTY: 4
COLOR: FRAME COLOR TO BE TEXTURED PEWTER, PANEL AND LID COLOR TO BE TEXTURED BRONZE

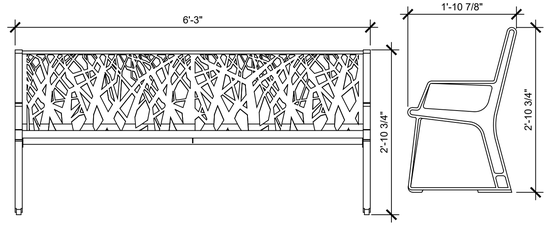
07 L510 WASTE RECEPTACLE SCALE: 3/4" = 1'-0"



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ARC RACK
STYLE: SURFACE MOUNT
QTY: 3
COLOR: POWDER COAT SILVER

04 L510 BIKE RACK SCALE: 3/4" = 1'-0"



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E: dan.s@anovafurnishings.com
P: 314.680.2499

AIRI STIX 6' CONTOUR BENCH
STYLE:AE2680STX QTY: 9
COLOR: FRAME COLOR TO BE TEXTURED PEWTER, PANEL AND LID COLOR TO BE TEXTURED BRONZE

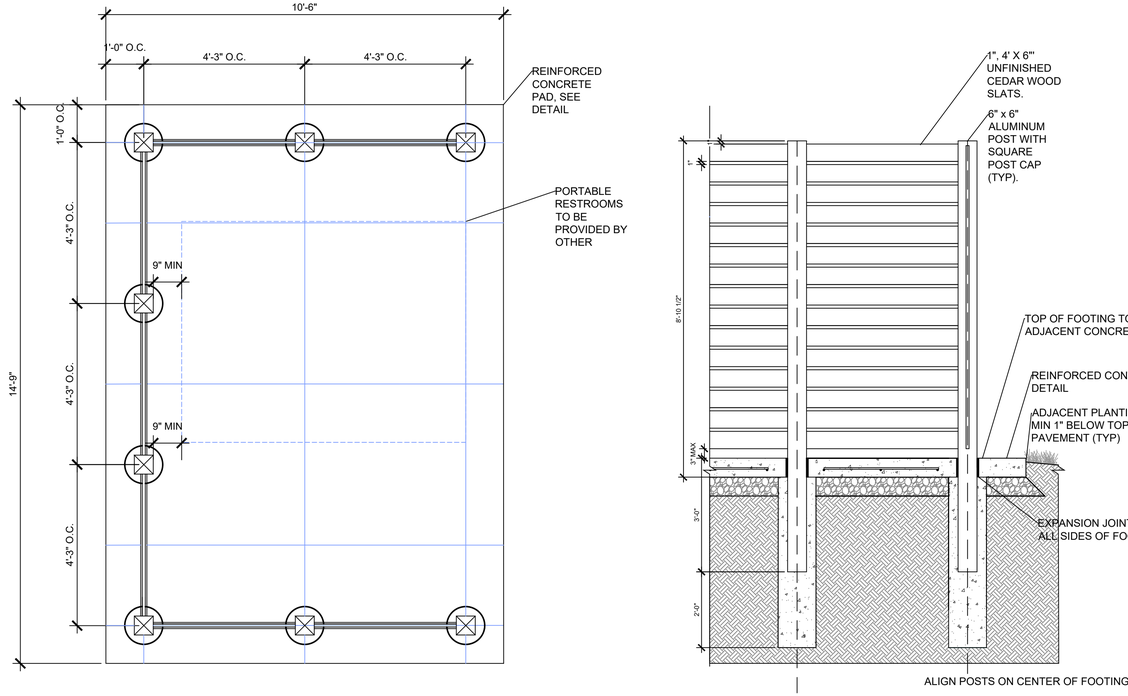
03 L510 BENCH SCALE: 3/4" = 1'-0"



OWNER TO PROVIDE. CONTRACTOR TO INSTALL. FOR REFERENCE ONLY
SUMMIT SUPPLY CORPORATION OF COLORADO
CONTACT: INFO@SUMMITSUPPLYCO.COM
P: 970.247.8858

CITY ASSEMBLED TABLE
STYLE: J2G-6
QTY: 6
FRAME: 2 3/8" STEEL FRAME
TABLE TOP: WOOD
COLOR: CITY STANDARD BLUE

02 L510 PICNIC TABLE SCALE: 3/4" = 1'-0"



PLAN VIEW

SECTION

01 L510 PORTABLE RESTROOM SCREEN 1/2" = 1'-0"

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JACKSON TOWNSHIP
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SITE DETAILS

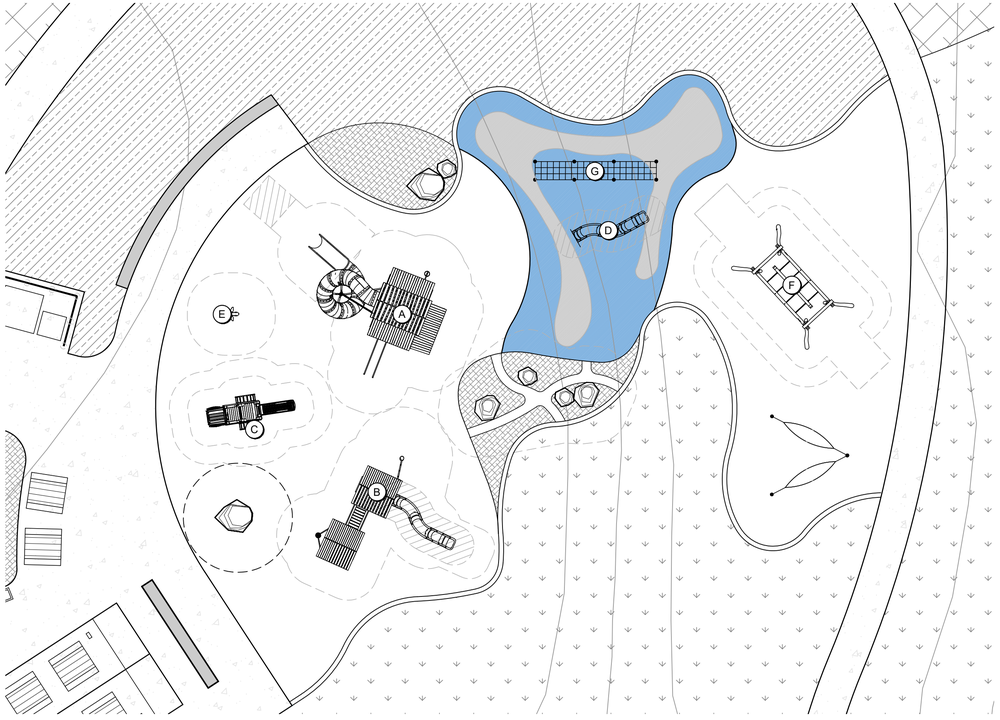
L510

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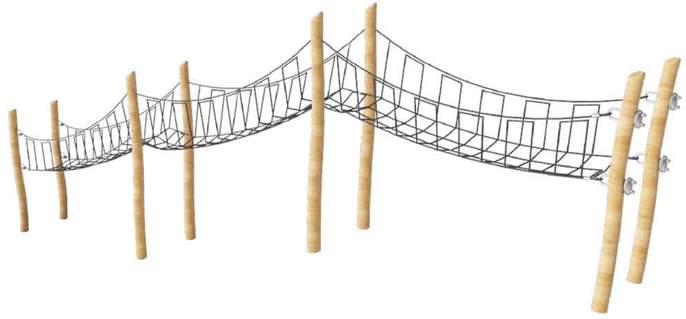
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02 L511 PLAYGROUND LAYOUT KEY N.T.S



G FEATURE



F FEATURE



E FEATURE



FEATURE



A FEATURE



B FEATURE

D



C FEATURE

01 L511 PLAYGROUND EQUIPMENT N.T.S

OWNER TO PROVIDE. CONTRACTOR TO INSTALL. FOR REFERENCE ONLY
KOMPAN (PURCHASED BY CITY)
CONTACT: JOHN ENGFER
E: JOHENG@KOMPAN.COM
P: 800.426.9788

(A) **FEATURE A:**
KOMPAN-GRAIN ELEVATOR
STYLE: KRS8200698
QTY: 1

(B) **FEATURE B:**
KOMPAN-BEE HOUSE
STYLE: KRS8200723
QTY: 1

(C) **FEATURE C:**
KOMPAN-ROBINIA TRACTOR
STYLE: NRO565-0621
QTY: 1

(D) **FEATURE D:**
EMBANKMENT SLIDE
STYLE: PCM110121-0902
QTY: 1

(E) **FEATURE E:**
KOMPAN-ROBINIA BEE
STYLE: NRO118-0421
QTY: 1

(F) **FEATURE F:**
KOMPAN-ROBINIA COCO WAVE
STYLE: NRO915-1001
QTY: 1

(G) **FEATURE G:**
KOMPAN-HILLSIDE CLIMBER
STYLE: 882883
QTY: 1

NOTES:

-PIP RUBBER SURFACE AT PLAY AREAS TO BE DESIGNED TO THE THICKNESS TO ACHIEVE FALL ZONE REQUIREMENTS OF PLAY EQUIPMENT. SEE PLAN AND PRODUCT SPECIFICATIONS FOR THE EXTENTS OF THE FALL ZONE.

-COORDINATE PLAY EQUIPMENT COLOR, LOCATION, AND FINISHES WITH CITY, LA AND PLAY MANUFACTURER

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SITE DETAILS

L511

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* PLAZA SHELTER IMAGE INTENT

- SHELTER TO HAVE OVERHANGS ON EDGES
- WOOD UNDERSIDE OF ROOF AS SHOWN
- METAL SEAM ROOF
- SHELTER FOOTINGS TO BE DESIGNED AND COORDINATED WITH SHELTER MANUFACTURER. TOP OF FOOTINGS TO BE HELD BELOW FINISHED CONCRETE ELEVATION.

PRODUCT NOTES:

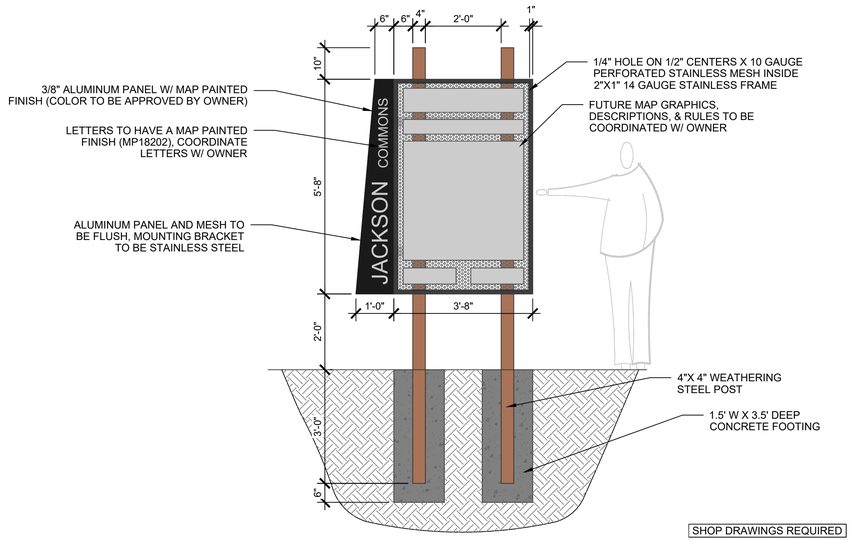
POLIGON - NORTHLAND RECREATION
OR APPROVED EQUAL
CONTACT: BILL JOHNSON
PH: 651-815-4097

POLIGON TO PROVIDE FOOTING DETAILS AND ENGINEERED APPROVED STRUCTURES

COLORS: VERIFIED THROUGH SHOP DRAWINGS

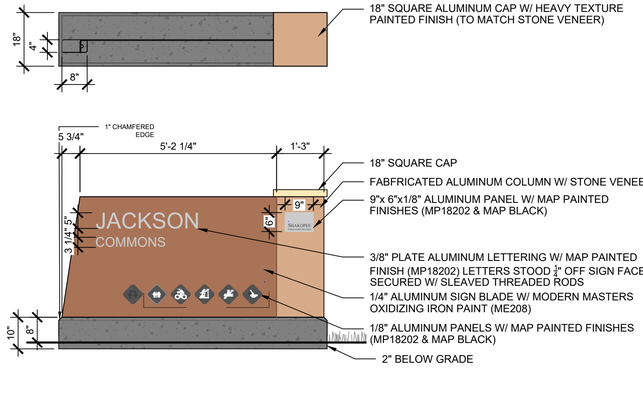
SHOP DRAWINGS REQUIRED

06 L512 **PARK SHELTER** N.T.S

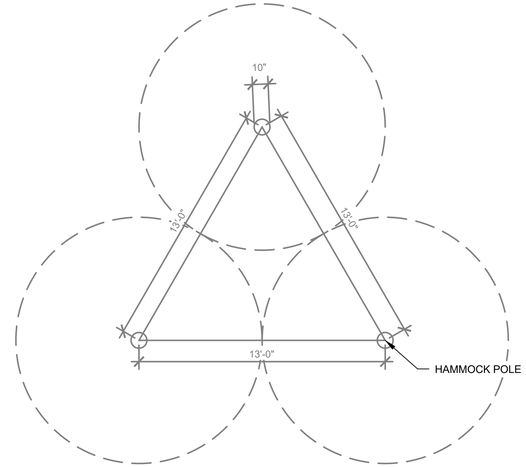


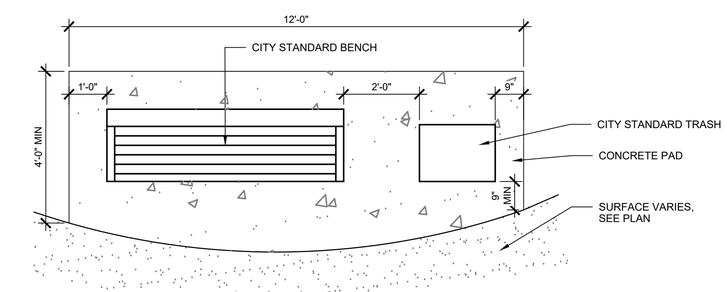
SHOP DRAWINGS REQUIRED

04 L512 **TRAILHEAD SIGN** N.T.S

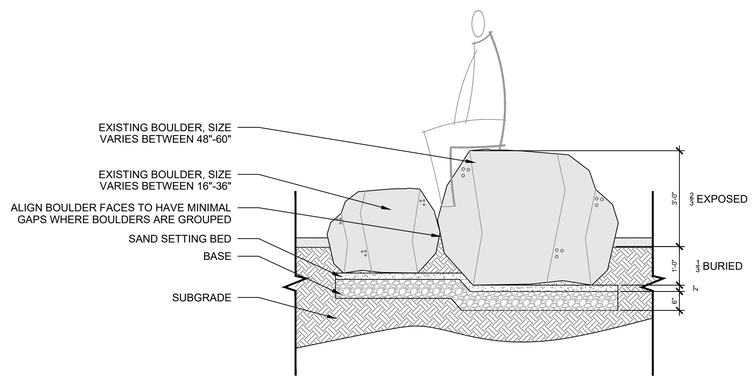


05 L512 **MONUMENT SIGN** N.T.S





01 L512 **CONCRETE BENCH PAD** N.T.S



02 L512 **FIELDSTONE BOULDER, TYP** N.T.S



*VISUAL INTENT. HEIGHT VARIES - (6'-10')

POSSIBLE SOURCE:

KOMPAN, INC.
CONTACT: JOHN ENGFER
E: JOHENG@KOMPAN.COM
P: 800.426.9788

OR

MIDWEST PLAYSCAPES, INC.
ANDREW PUDWILL
E: ANDREW@MIDWESTPLAYSCAPES.COM
P: 952.465.5138

ROBINIA NOTCHED PLAY POSTL
QTY: 15, VARIED HEIGHTS

MIDWEST PLAYSCAPES, INC.
ANDREW PUDWILL

NOTE:
-CONTRACTOR TO PROVIDE & INSTALL. FOR REFERENCE ONLY
-FOOTINGS AND FINAL INSTALLATION TO BE COORDINATED WITH PM BUT FURNISHED BY MANUFACTURER

03 L512 **HAMMOCK GROVE, TYP.** N.T.S

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NAME: TERRY AINKARK
SIGNATURE:
DATE: 4/15/2024
LIC. No: 4242

Revision Schedule

No.	Date	Description
	4/15/2024	95% CD SET

JACKSON COMMONS PARK
CITY OF SHAKOPEE
JACKSON TOWNSHIP
SHAKOPEE, MN, 55379

Project Number	23551
Issue	00000
Date	YYYY-MM-DD

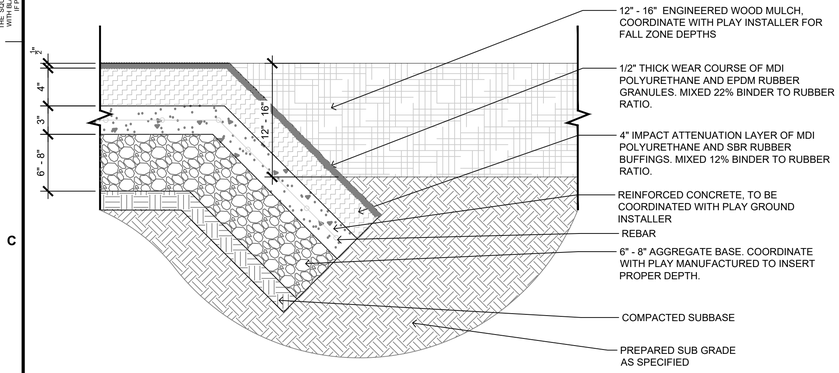
SITE DETAILS

L512

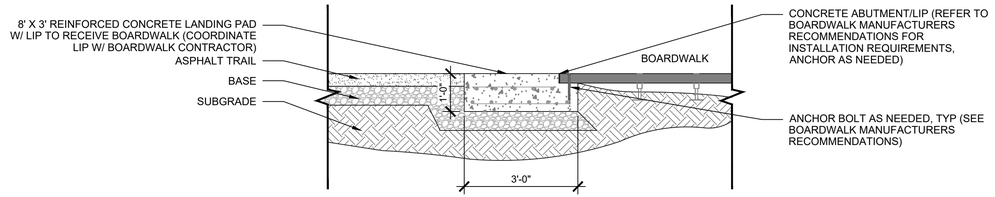
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IF LINE SHOWN ABOVE IS NOT 1" LONG, PLOT ALL DRAWINGS AT EXACTLY HALF SIZE
SHEET'S ORIGINAL PAGE SIZE

THE SQUARES ABOVE ARE COLOR, WHITE AND BLACK. USE TO CHECK IF PRINTED CORRECTLY



05 L513 PIP PLAY SURFACE @ ENGINEERED MULCH 1-1/2" = 1' - 0"



07 L513 BOARDWALK ABUTMENT SCALE: 1/2" = 1'-0"



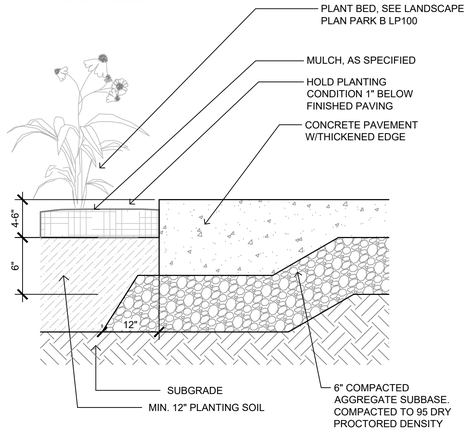
PRODUCT NOTES:
WICKCRAFT BOARDWALKS OR APPROVED EQUAL
CONTACT: CRAIG MAYNE
PH: 800-549-7694

WOODEN BOARDWALK W/ CURB (NO HAND RAILING)
STYLE: 8'X4' PANELS
QTY.: TBD
COLOR: APPROVE W/ OWNER

SHOP DRAWINGS REQUIRED

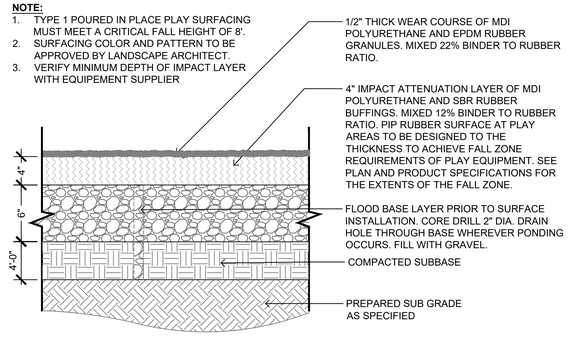
06 L513 BOARDWALK SCALE: 1/2" = 1'-0"

* CONTRACTOR TO SITE VERIFY IF THICKENED EDGE IS NEEDED

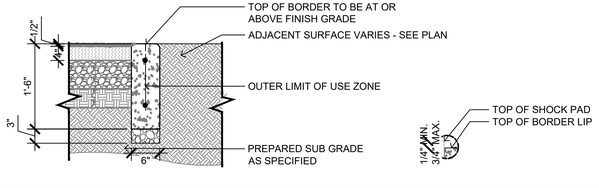


01 L513 CONCRETE SIDEWALK @ PLANT BED 1 1/2" = 1'-0"

NOTE:
1. TYPE 1 POURED IN PLACE PLAY SURFACING MUST MEET A CRITICAL FALL HEIGHT OF 8'.
2. SURFACING COLOR AND PATTERN TO BE APPROVED BY LANDSCAPE ARCHITECT.
3. VERIFY MINIMUM DEPTH OF IMPACT LAYER WITH EQUIPEMENT SUPPLIER



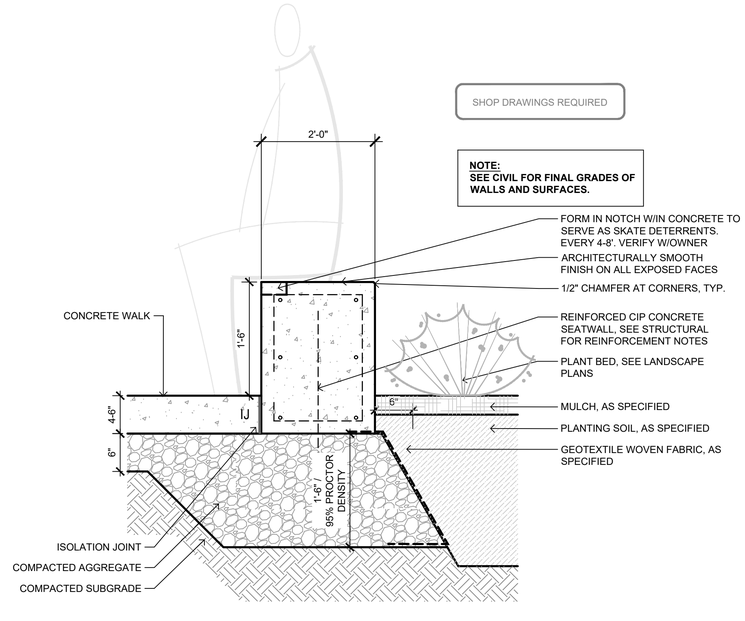
03 L513 SECTION: PIP PLAY SURFACE 1-1/2" = 1' - 0"



02 L513 PIP PLAY SURFACE CURB (EDGE TREATMENT) 3/4" = 1' - 0"

SHOP DRAWINGS REQUIRED

NOTE:
SEE CIVIL FOR FINAL GRADES OF WALLS AND SURFACES.



04 L513 SEATWALL DETAIL N.T.S

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NAME: TERRY MINARIK
SIGNATURE:
DATE: 4/15/2024
LIC. No: 4242

Revision Schedule

No.	Date	Description
	4/15/2024	95% CD SET

JACKSON COMMONS PARK
CITY OF SHAKOPEE
JACKSON TOWNSHIP
SHAKOPEE, MN, 55379

Project Number	23551
Issue	00000
Date	YYYY-MM-DD

SITE DETAILS

L513

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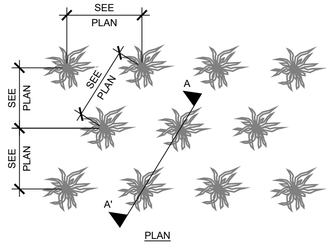
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IF LINE SHOWN ABOVE IS NOT 1" LONG, DRAWING IS AT THE WRONG SCALE
SHEET'S ORIGINAL PAGE SIZE

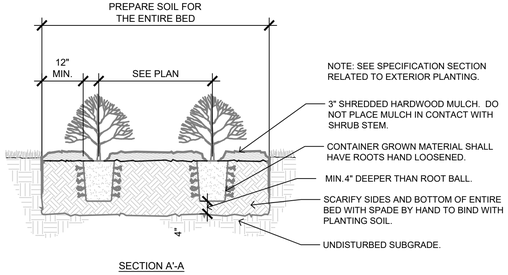
THE SQUARES ABOVE ARE COLOR, WHICH SHOULD APPEAR CORRECTLY IF PRINTED CORRECTLY

C M Y K

01 L550 TREE PLANTING DETAIL, TYP. N.T.S.

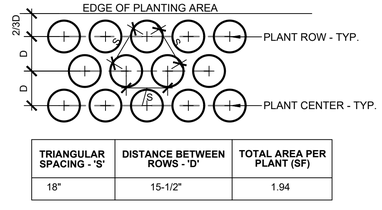


PLAN



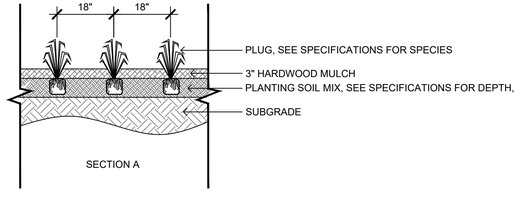
SECTION A'-A

02 L550 SHRUB PLANTING DETAIL, TYP. N.T.S.



TRIANGULAR SPACING - 'S'	DISTANCE BETWEEN ROWS - 'D'	TOTAL AREA PER PLANT (SF)
18"	15-1/2"	1.94

04 L550 PERENNIAL PLANT AND NATIVE GRASS SPACING N.T.S



SECTION A

03 L550 PERENNIAL AND NATIVE GRASS PLUG LAYOUT N.T.S

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Revision Schedule

No.	Date	Description
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JACKSON COMMONS PARK
CITY OF SHAKOPEE
JACKSON TOWNSHIP
SHAKOPEE, MN, 55379

Project Number	23551
Issue	00000
Date	YYYY-MM-DD

PLANTING DETAILS

L550

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File Location: N:\2023\23551_Jackson Commons Park Implementation\23551_WORKING\AUTOCAD\SHEETS\23551 L550 Planting Details / SAVE DATE: 5/7/2024 3:58 PM BY: mlong / PLOT DATE: 5/13/2024 11:22 AM BY: Aaron Hanson