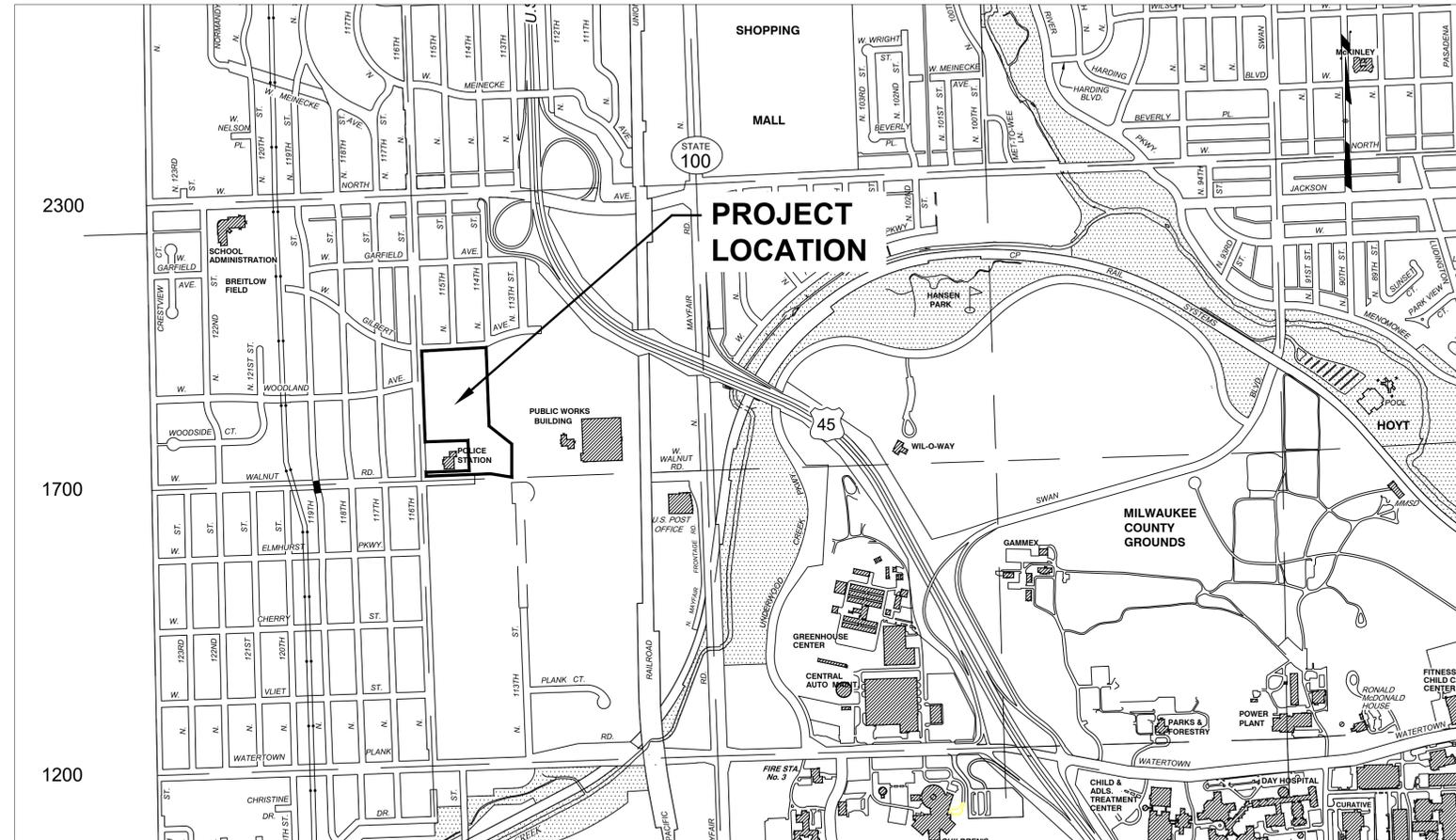


**CITY OF WAUWATOSA
 CONTRACT 24-02
 116TH STREET PARK
 CITY PROJECT #8045
 SIGMA PROJECT #21231**

SHEET NO:	DESCRIPTION
C 001	SITE SURVEY
C 002	EROSION CONTROL AND SITE PREPARATION PLAN
C 100	OVERALL SITE PLAN
C 200	GRADING PLAN
C 201	DETAILED GRADING PLAN
C 202	DETAILED GRADING PLAN
C 300	UTILITY PLAN
C 400	EROSION CONTROL DETAILS
C 401	PAVING & SITE DETAILS
C 402	UTILITY DETAILS
C 403	GI CROSS SECTION DETAIL
C 404	BIORETENTION DETAILS
C 405	CONSTRUCTED WETLAND DETAILS
C 406	RESTROOM BUILDING DETAILS
C 500-501	SPECIFICATIONS

site

SHEET NO:	DESCRIPTION
L002	OVERALL SITE PLAN (FOR REFERENCE ONLY)
L003	GENERAL NOTES
L101	LANDSCAPE SITE PLAN
L101A.1	LANDSCAPE SITE PLAN ENLARGEMENT
L101A.2	LANDSCAPE PLAN ENLARGEMENT
L102A.2	PLAYGROUND GRADING PLAN ENLARGEMENT
L103A.1	HARDSCAPE PLAN ENLARGEMENT
L103A.2	HARDSCAPE PLAN ENLARGEMENT
L104A.1	SITE FURNISHINGS PLAN ENLARGEMENT
L104A.2	PLAYGROUND EQUIPMENT ENLARGEMENT PLAN (FOR REFERENCE ONLY)
L105	SOILS PLAN
L106	PLANTING PLAN
L106A.1	PLANTING PLAN ENLARGMENT
L106A.2	PLANTING PLAN ENLARGMENT
L106A.3	PLANTING PLAN ENLARGMENT
L106B	PLANTING PLAN ENLARGMENT
L106C	PLANTING PLAN ENLARGMENT
L501	PRESERVATION AND DEMOLITION DETAILS
L503	HARDSCAPE DETAILS
L503A	HARDSCAPE DETAILS
L503B	HARDSCAPE DETAILS
L503C	HARDSCAPE DETAILS
L503D	HARDSCAPE DETAILS
L504	SITE FURNISHING DETAILS
L504A	SITE STRUCTURES
L504B	SITE STRUCTURES
L504C	PLAYGROUND DETAILS
L504D	PLAYGROUND FURNISHING RENDERINGS (FOR REFERENCE ONLY)
L506	PLANTING DETAILS
L506A	PLANTING DETAILS
L603	HARDSCAPE SCHEDULE
L603A	HARDSCAPE SCHEDULE
L604	SITE FURNISHING SCHEDULE
L606	PLANTING SCHEDULE
L1000	IRRIGATION PLAN



ibc engineering services, inc.
 WISCONSIN | ILLINOIS | FLORIDA

SHEET NO:	DESCRIPTION
E 000	LEGEND AND NOTES
E 100	ELECTRICAL SITE PLANS
E 500	ELECTRICAL SCHEDULES

PROJECT COORDINATION:
 ALEX KRUTSCH
 PARKS & FORESTRY SUPERINTENDENT
 (414) 471-8422
 AKRUTSCH@WAUWATOSA.NET

NICK DEMING, PE
 CONSTRUCTION MANAGER
 (414) 479-3541
 NDEMING@WAUWATOSA.NET

THE SIGMA GROUP:
 CHRISTOPHER CARR, PE
 VICE PRESIDENT
 (414) 643-4163
 CCARR@THESIGMAGROUP.COM

SITE DESIGN LANDSCAPE ARCHITECTURE:
 BRENDA KIESGEN
 PROJECT MANAGER
 (708) 691-0601
 BKIESGEN@SITE-DESIGN.COM

IBC ENGINEERING SERVICES:
 COLLEEN HOFFMANN, PE
 ELECTRICAL ENGINEER
 (262) 522-4423
 COLLEENH@IBCENGINEERING.COM

Issued for Board of Public Works Approval Only
Not to Be Used for Bidding

APPROVED BY THE BOARD OF PUBLIC WORKS OF THE CITY OF WAUWATOSA, WISCONSIN BY RESOLUTION ADOPTED:

DATE _____ CITY CLERK _____

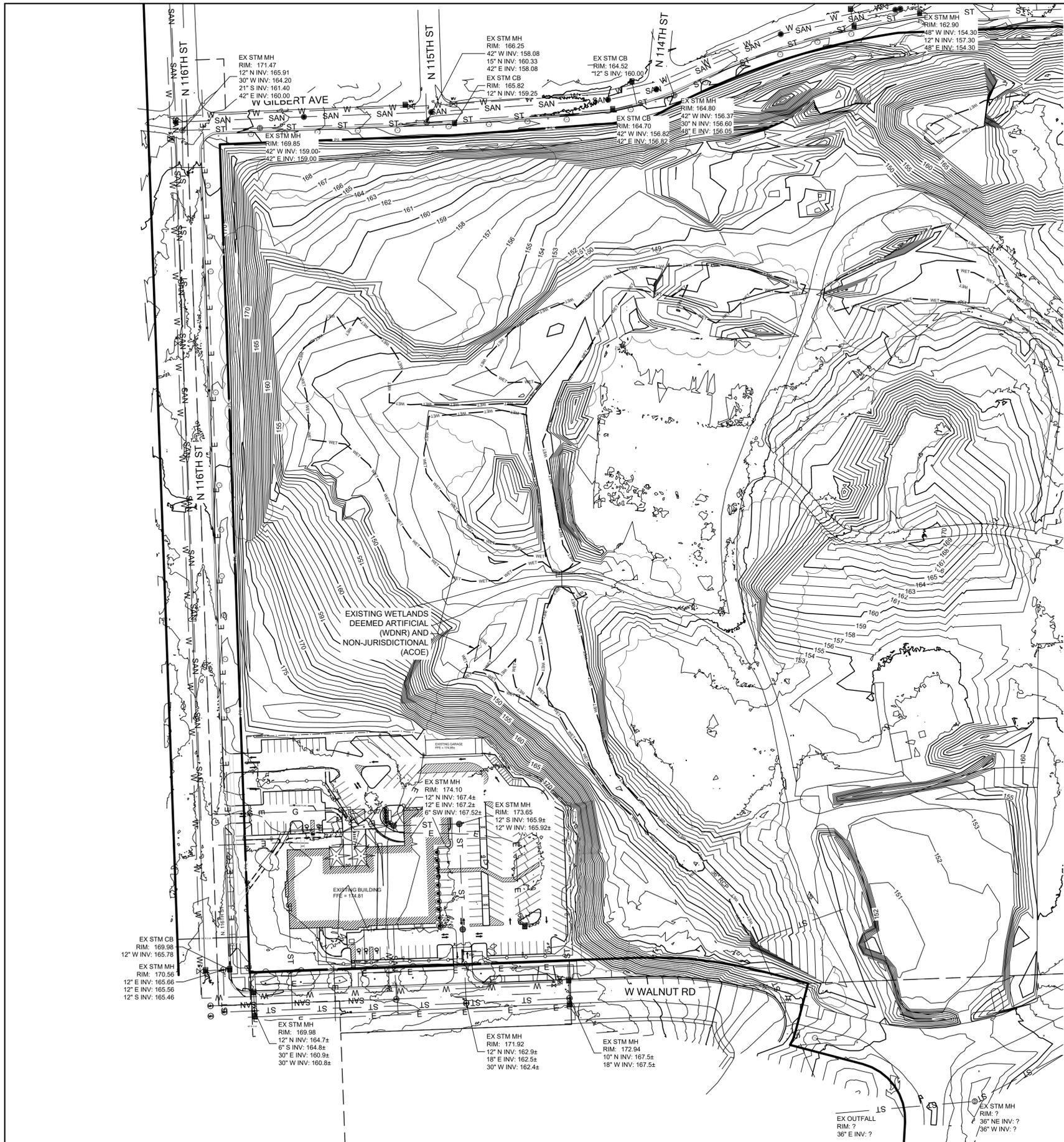
SUBMITTED FOR APPROVAL:
FEBRUARY 15, 2024
 DATE _____ CITY ENGINEER REG. PROF. ENGR. _____

CITY OF WAUWATOSA
 ENGINEERING SERVICES DIVISION

116TH STREET PARK

1900 N. 116TH STREET

SCALE: AS NOTED SHEETS: _____

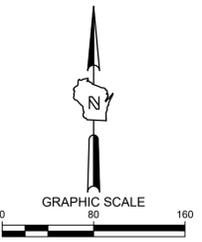


- LEGEND:**
- SECTION 1/4 SECTION LINE
 - PROPERTY LINE
 - EASEMENT
 - X- CHAIN LINK FENCE
 - TREE LINE
 - OH --- OVERHEAD UTILITY LINE
 - E --- ELECTRIC
 - TEL --- TELEPHONE
 - FO --- FIBER OPTIC
 - CTV --- CABLE TV
 - SAN --- SANITARY SEWER
 - FM --- FORCE MAIN
 - ST --- STORM SEWER
 - W --- WATER MAIN
 - G --- GAS
 - 670 --- EXISTING CONTOUR
 - WET --- WETLAND
 - FP --- FLOODPLAIN

- MANHOLE
- ⊕ CATCH BASIN
- CATCH BASIN (ROUND)
- ⊙ ROOF DRAIN
- ⊕ HYDRANT
- ⊕ WATER VALVE
- ⊕ GAS VALVE
- ⊕ UTILITY POLE
- ⊕ GUY WIRE
- ⊕ GAS METER
- ⊕ ELECTRIC METER
- ⊕ UTILITY PEDESTAL
- ⊕ TRAFFIC SIGNAL
- ⊕ LIGHT POLE
- ⊕ SOIL BORING
- ⊕ MONITORING WELL
- IRON PIPE FOUND/SET
- REBAR FOUND/SET
- ⊗ CHISELED CROSS FOUND/SET
- ⊕ PK NAIL FOUND/SET
- SPIKE/NAIL
- ⊕ MONUMENT
- ⊕ BENCHMARK
- ⊕ SIGN
- DECIDUOUS TREE
- ⊕ CONIFEROUS TREE
- BUSH
- ⊕ POST

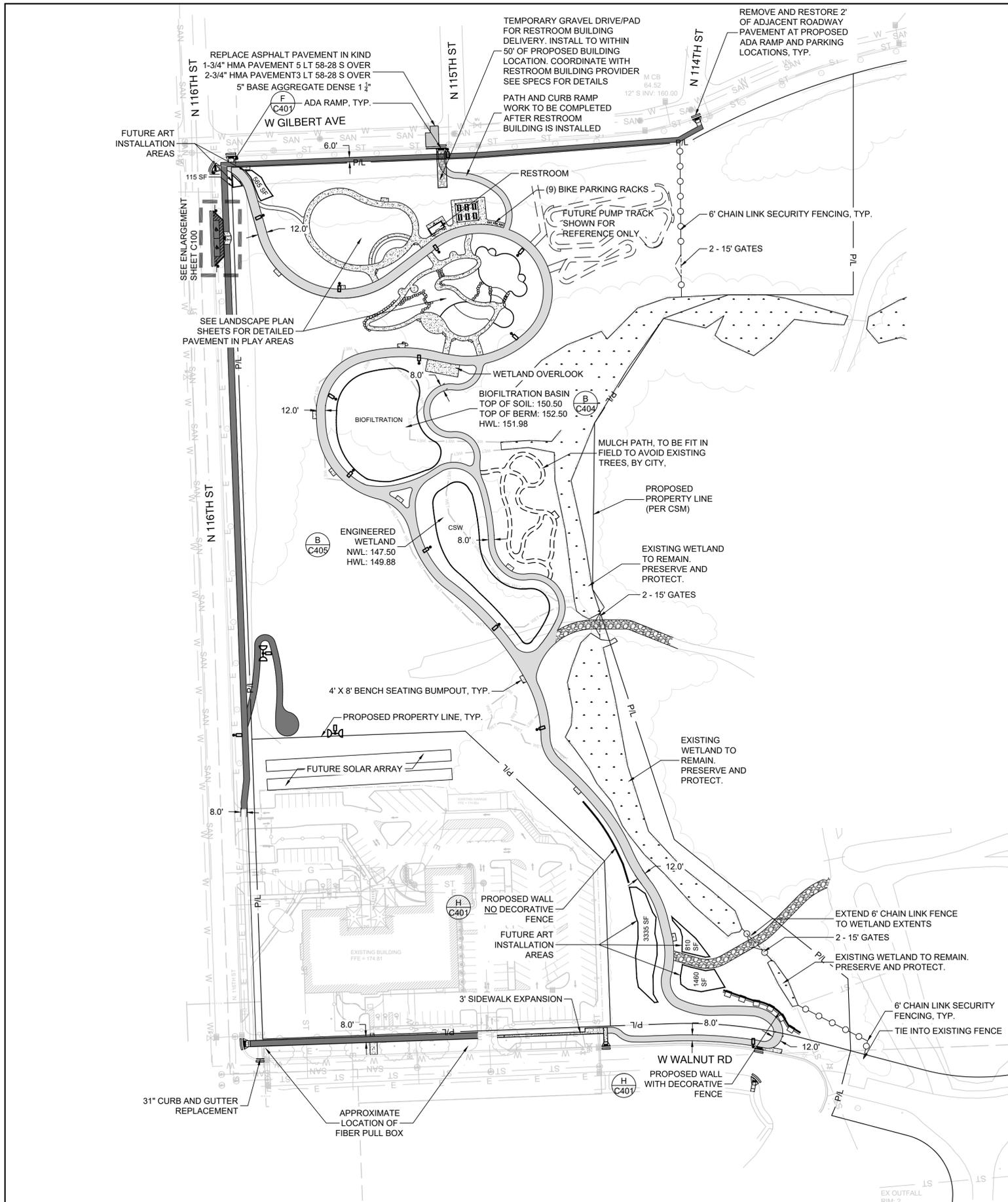
- GENERAL NOTES:**
1. THE UNDERGROUND UTILITY INFORMATION SHOWN ON THIS DRAWING IS BASED ON FIELD LOCATIONS AND/OR RECORDS FURNISHED BY MUNICIPALITIES AND UTILITY COMPANIES. THE LOCATION AND ACCURACY OF WHICH CANNOT BE GUARANTEED. THERE MAY BE ADDITIONAL UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
 2. VERIFY ACTUAL LOCATIONS AND INVERTS IN THE FIELD. ANY POTENTIAL ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
 3. DRAWING IS BASED ON FIELD SURVEY COMPLETED BY THE CITY OF WAUWATOSA ON OCTOBER 2022.
 4. DATUM FOR THE PROJECT SURVEY IS WAUWATOSA DATUM.
 5. CONTRACTOR TO VERIFY EXISTING CONDITIONS, CONTACT ENGINEER WITH DISCREPANCIES.
 6. PRIVATE CONSTRUCTION THAT DISTURBS UNDERGROUND UTILITIES IS REQUIRED TO INSTALL AND MAINTAIN ENCLOSED RAT TRAPS OR BAIT STATIONS.

THE UNDERGROUND UTILITY INFORMATION SHOWN ON THIS MAP IS BASED ON FIELD MARKINGS AND INFORMATION FURNISHED BY UTILITY COMPANIES AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED.



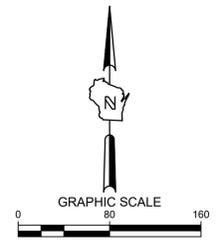
CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE
MS STATUTE 182.07(2)(17A)
REQUIRES 48 HOURS NOTICE BEFORE YOU EXCAVATE
MILW. AREA 259-1181

CONTRACT:	24-02	DESCRIPTION
FILE NO.:	21231	
DRAWN BY:	JRG	
CHECKED BY:	CTC	
SCALE:	AS SHOWN	
CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION		
SIGMA GROUP		
SITE SURVEY		
1900 N 116TH STREET		
WAUWATOSA, WI 53226		
C001		



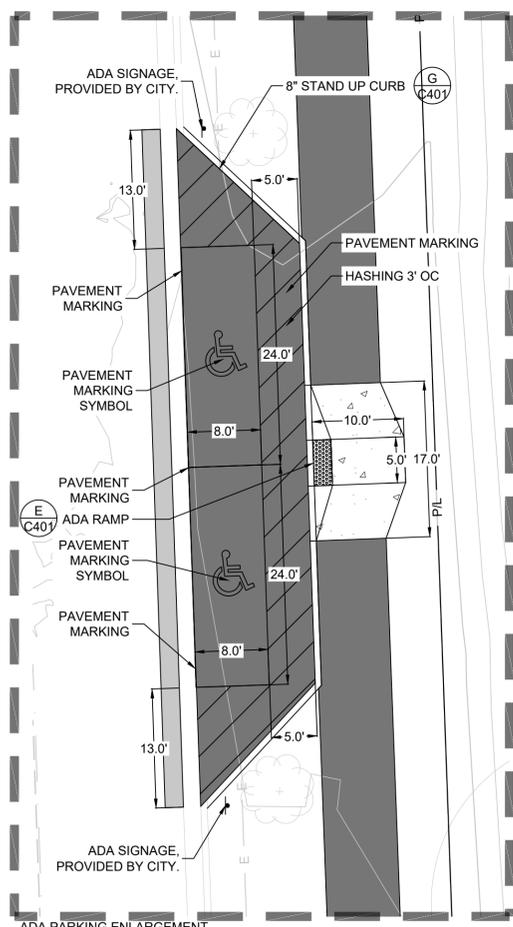
LEGEND:

- 5" THICK CONCRETE WALK
- POROUS ASPHALT PATH (INTERIOR)
- POROUS ASPHALT PATH (EXTERIOR)
- 8" THICK, 3/4" DENSE GRADED BASE COURSE MAINTENANCE DRIVE
- EXISTING WETLAND TO REMAIN PRESERVE AND PROTECT
- CHAIN LINK FENCE
- DECORATIVE CEDAR SPLIT RAIL FENCE
- LIGHT POLE (SEE LIGHTING PLANS)
- 8" STAND UP CURB



SITE INFORMATION			
SITE AREA	521611	11.975 AC	
SITE DISTURBED AREA	372576	8.553 AC	
EXISTING IMPERVIOUS AREA	1590	0.037 AC	0.3 %
EXISTING PERVIOUS AREA	370986	8.517 AC	99.6 %
PROPOSED IMPERVIOUS AREA	90710	2.082 AC	24.3 %
PROPOSED PERVIOUS AREA	280276	6.434 AC	75.2 %
ADA PARKING SPACES	2		
BIKE PARKING SPACES	9		

NOTE:
ALL PAVEMENT MARKING LINES ARE TO BE 4 INCH WIDE STRIPES OF WHITE PAINT.



- GENERAL NOTES:**
1. THE UNDERGROUND UTILITY INFORMATION SHOWN ON THIS DRAWING IS BASED ON FIELD LOCATIONS AND/OR RECORDS FURNISHED BY MUNICIPALITIES AND UTILITY COMPANIES. THE LOCATION AND ACCURACY OF WHICH CANNOT BE GUARANTEED. THERE MAY BE ADDITIONAL UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
 2. VERIFY ACTUAL LOCATIONS AND INVERTS IN THE FIELD. ANY POTENTIAL ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
 3. WORK TO BE COMPLETED IS INDICATED IN BOLD TYPE LINES AND EXISTING CONDITIONS ARE INDICATED BY LIGHT TYPE LINES.
 4. ELECTRONIC CIVIL FILES ARE AVAILABLE UPON WRITTEN REQUEST. DO NOT USE ELECTRONIC CIVIL FILES TO LAYOUT FOUNDATIONS, COLUMN LINES, LIGHT POLES, OR OTHER NON CIVIL SITE WORK. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF BUILDING AND ARCHITECTURAL FEATURES.
 5. DIMENSIONS ARE FROM FACE OF CURB OR EDGE OF PAVEMENT.
 6. WORK WITHIN THE PUBLIC RIGHT OF WAY, INCLUDING BUT NOT LIMITED TO DRIVEWAY OPENINGS, SIDEWALK AND RAMPS, PAVING, AND CURB AND GUTTER SHALL BE COMPLETED PER CITY OF WAUWATOSA SPECIFICATIONS.
 7. EARTHWORK SHALL BE IN ACCORDANCE WITH GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.



CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE

WIS STATUTE 182.017(1974)
REQUIRES MIN. 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE

MILW. AREA 259-1181

DATE	DESCRIPTION

CITY OF WAUWATOSA
ENGINEERING SERVICES DIVISION

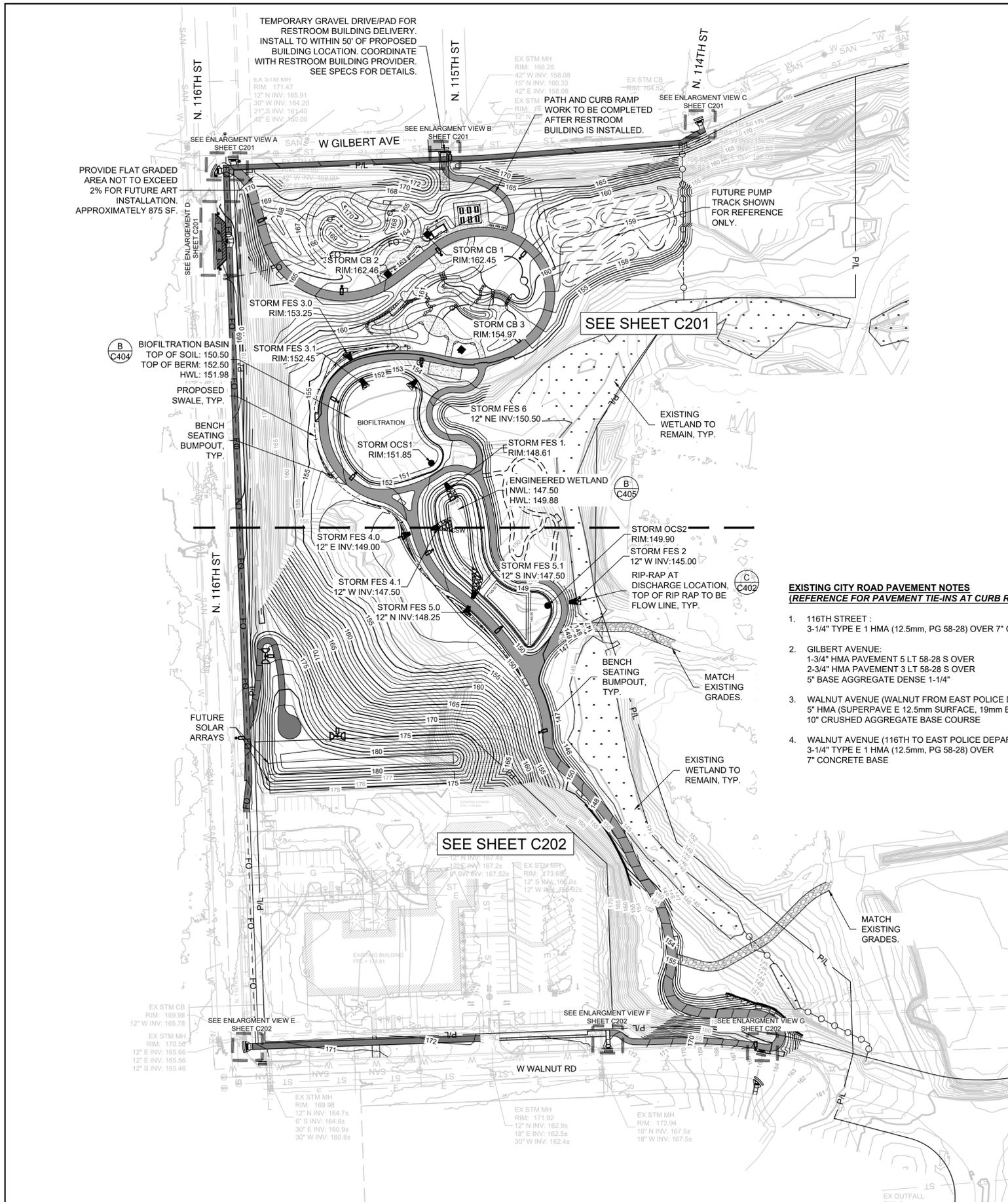
SIGMA GROUP
Single Source, Sound Solutions.

site

OVERALL SITE PLAN
1900 N 116TH STREET
WAUWATOSA, WI 53226

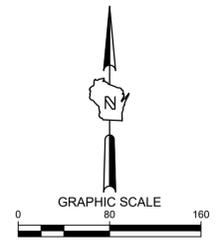
CONTRACT:	24-02
FILE NO.:	21231
DRAWN BY:	JRG
CHECKED BY:	CTC
SCALE:	AS SHOWN

C100



LEGEND:

- 5' THICK CONCRETE WALK (A/C401)
- POROUS ASPHALT PATH (INTERIOR) (F/C402)
- POROUS ASPHALT PATH (EXTERIOR) (G/C402)
-
- EXISTING WETLAND TO REMAIN PRESERVE AND PROTECT
- CHAIN LINK FENCE (I/C401)
- DECORATIVE CEDAR SPLIT RAIL FENCE (I/C401)
- LIGHT POLE (SEE LIGHTING PLANS)
-
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SWALE
- PROPOSED CURB & GUTTER SPOT GRADE
T/C: TOP OF CURB GRADE
FL: FLOW LINE CURB GRADE
- PROPOSED SURFACE SPOT GRADE
- PROPOSED TOP OF WALL AT FINISHED GRADE
PROPOSED BOTTOM OF WALL AT FINISHED GRADE
- EXISTING SURFACE SPOT GRADE (MATCH)



- EXISTING CITY ROAD PAVEMENT NOTES**
(REFERENCE FOR PAVEMENT TIE-INS AT CURB RAMPS AND ADA PARKING LANE)
- 116TH STREET :
3-1/4" TYPE E 1 HMA (12.5mm, PG 58-28) OVER 7" CONCRETE
 - GILBERT AVENUE:
1-3/4" HMA PAVEMENT 5 LT 58-28 S OVER
2-3/4" HMA PAVEMENT 3 LT 58-28 S OVER
5" BASE AGGREGATE DENSE 1-1/4"
 - WALNUT AVENUE (WALNUT FROM EAST POLICE DEPARTMENT P/L TO CUL-DE-SAC)
5" HMA (SUPERPAVE E 12.5mm SURFACE, 19mm BINDER) OVER
10" CRUSHED AGGREGATE BASE COURSE
 - WALNUT AVENUE (116TH TO EAST POLICE DEPARTMENT P/L)
3-1/4" TYPE E 1 HMA (12.5mm, PG 58-28) OVER
7" CONCRETE BASE

- GENERAL NOTES:**
- THE UNDERGROUND UTILITY INFORMATION SHOWN ON THIS DRAWING IS BASED ON FIELD LOCATIONS AND/OR RECORDS FURNISHED BY MUNICIPALITIES AND UTILITY COMPANIES. THE LOCATION AND ACCURACY OF WHICH CANNOT BE GUARANTEED. THERE MAY BE ADDITIONAL UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
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 - DIMENSIONS ARE FROM FACE OF CURB OR EDGE OF PAVEMENT.
 - WORK WITHIN THE PUBLIC RIGHT OF WAY, INCLUDING BUT NOT LIMITED TO DRIVEWAY OPENINGS, SIDEWALK AND RAMPS, PAVING, AND CURB AND GUTTER SHALL BE COMPLETED PER CITY OF WAUWATOSA SPECIFICATIONS.
 - EARTHWORK SHALL BE IN ACCORDANCE WITH GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.

THE UNDERGROUND UTILITY INFORMATION SHOWN ON THIS MAP IS BASED ON FIELD MARKINGS AND INFORMATION FURNISHED BY UTILITY COMPANIES AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED.



CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE

MS STATUTE 182.012(1)(174)
REQUIRES MIN. 3 WORK DAYS
NOTICE BEFORE YOU DIG/AWITE
MILW. AREA 259-1181

DATE	DESCRIPTION

CITY OF WAUWATOSA
ENGINEERING DIVISION

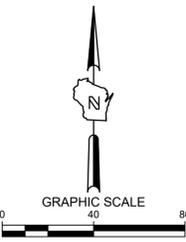
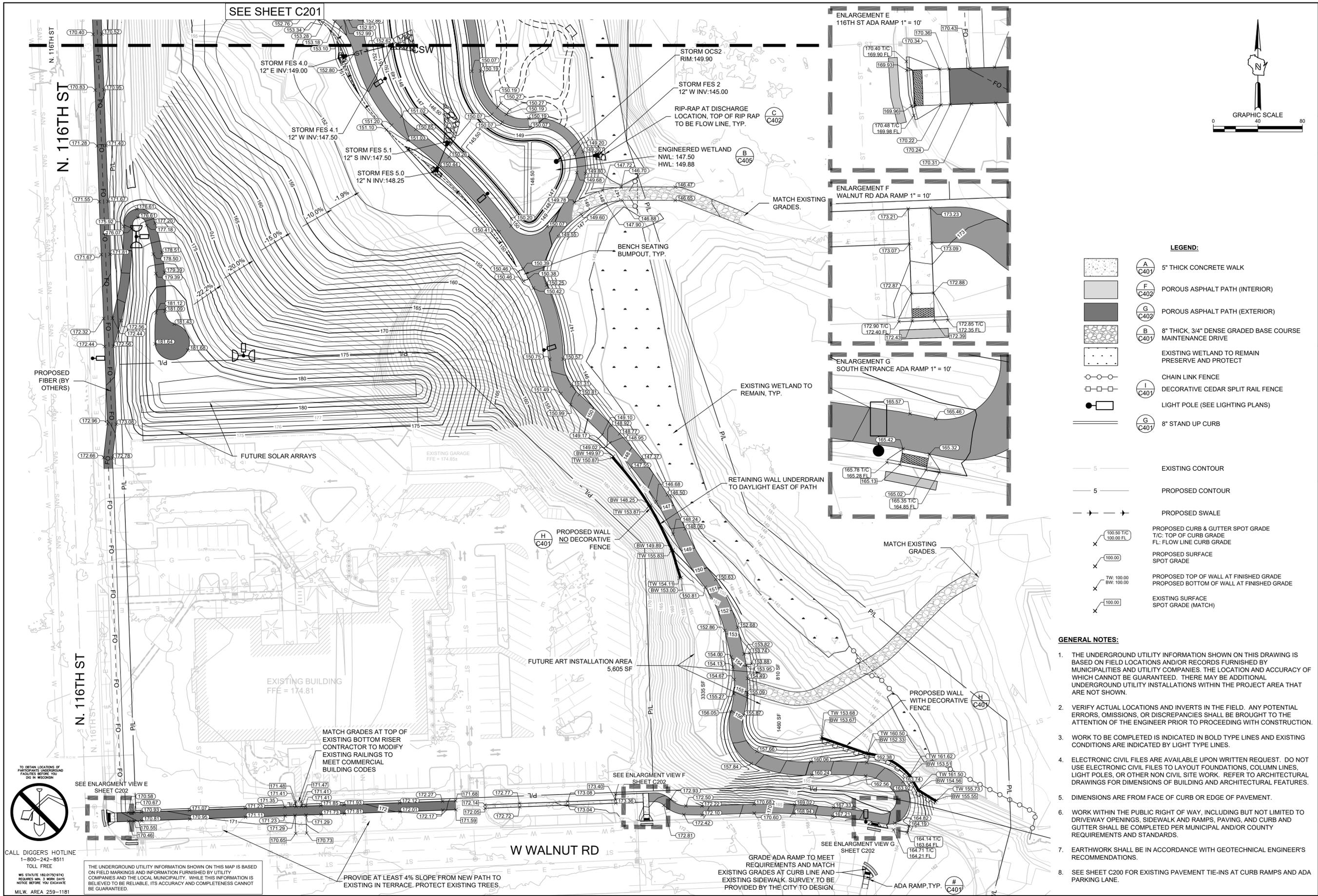
SIGMA GROUP
Single Source. Sound Solutions.

Site

GRADING PLAN
1900 N 116TH STREET
WAUWATOSA, WI 53226

CONTRACT: 24-02
FILE NO: 21231
DRAWN BY: JRG
CHECKED BY: CTC
SCALE: AS SHOWN

C200



- LEGEND:**
- 5" THICK CONCRETE WALK (A C401)
 - POROUS ASPHALT PATH (INTERIOR) (F C402)
 - POROUS ASPHALT PATH (EXTERIOR) (G C402)
 - 8" THICK, 3/4" DENSE GRADED BASE COURSE MAINTENANCE DRIVE (B C401)
 - EXISTING WETLAND TO REMAIN PRESERVE AND PROTECT
 - CHAIN LINK FENCE (I C401)
 - DECORATIVE CEDAR SPLIT RAIL FENCE (I C401)
 - LIGHT POLE (SEE LIGHTING PLANS)
 - 8" STAND UP CURB (G C401)
 - EXISTING CONTOUR
 - PROPOSED CONTOUR
 - PROPOSED SWALE
 - PROPOSED CURB & GUTTER SPOT GRADE
T/C: TOP OF CURB GRADE
FL: FLOW LINE CURB GRADE
 - PROPOSED SURFACE SPOT GRADE
 - PROPOSED TOP OF WALL AT FINISHED GRADE
PROPOSED BOTTOM OF WALL AT FINISHED GRADE
 - EXISTING SURFACE SPOT GRADE (MATCH)

- GENERAL NOTES:**
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 2. VERIFY ACTUAL LOCATIONS AND INVERTS IN THE FIELD. ANY POTENTIAL ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
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 4. ELECTRONIC CIVIL FILES ARE AVAILABLE UPON WRITTEN REQUEST. DO NOT USE ELECTRONIC CIVIL FILES TO LAYOUT FOUNDATIONS, COLUMN LINES, LIGHT POLES, OR OTHER NON CIVIL SITE WORK. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF BUILDING AND ARCHITECTURAL FEATURES.
 5. DIMENSIONS ARE FROM FACE OF CURB OR EDGE OF PAVEMENT.
 6. WORK WITHIN THE PUBLIC RIGHT OF WAY, INCLUDING BUT NOT LIMITED TO DRIVEWAY OPENINGS, SIDEWALK AND RAMPS, PAVING, AND CURB AND GUTTER SHALL BE COMPLETED PER MUNICIPAL AND/OR COUNTY REQUIREMENTS AND STANDARDS.
 7. EARTHWORK SHALL BE IN ACCORDANCE WITH GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
 8. SEE SHEET C200 FOR EXISTING PAVEMENT TIE-INS AT CURB RAMPS AND ADA PARKING LANE.

DATE	DESCRIPTION

CITY OF WAUWATOSA
ENGINEERING SERVICES DIVISION

SIGMA GROUP
Single Source. Sound Solutions.

Site

DETAILED GRADING PLAN	1900 N 116TH STREET
CONTRACT: 24-02	FILE NO.: 21231
DRAWN BY: JRG	CHECKED BY: CTC
SCALE: AS SHOWN	C202

TO OBTAIN LOCATIONS OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

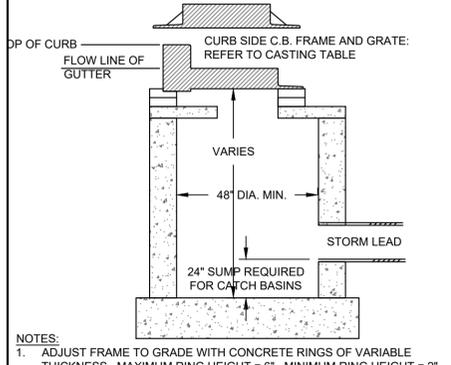
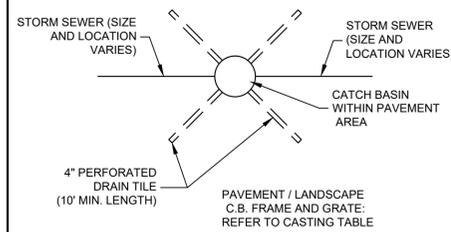
CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE

MS STATUTE 182.07(2)(97A)
REQUIRES MIN. 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE
M.L.W. AREA 259-1181

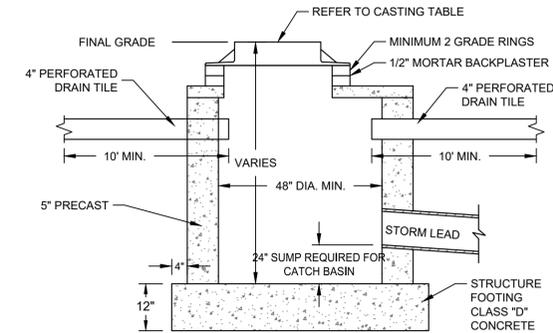
THE UNDERGROUND UTILITY INFORMATION SHOWN ON THIS MAP IS BASED ON FIELD MARKINGS AND INFORMATION FURNISHED BY UTILITY COMPANIES AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED.

PROVIDE AT LEAST 4% SLOPE FROM NEW PATH TO EXISTING IN TERRACE. PROTECT EXISTING TREES.

**CATCH BASIN
WITHIN LOW POINT OF PAVEMENT AREA**



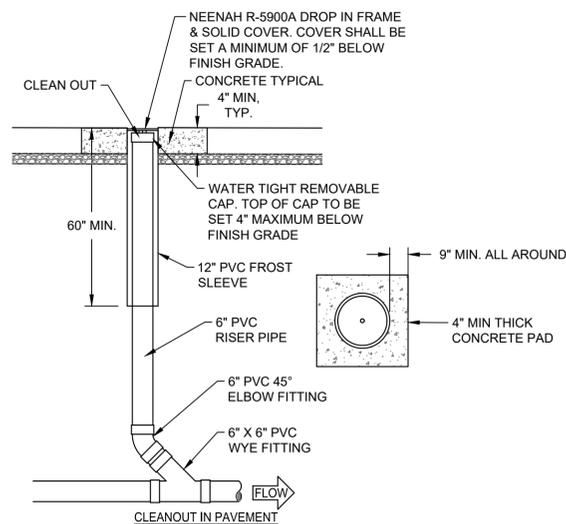
- NOTES:**
- ADJUST FRAME TO GRADE WITH CONCRETE RINGS OF VARIABLE THICKNESS. MAXIMUM RING HEIGHT = 6". MINIMUM RING HEIGHT = 2". CONCRETE RINGS SHALL BE REINFORCED WITH ONE LINE OF STEEL CENTERED WITHIN THE RING.
 - CONCRETE AND REINFORCEMENT STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION C-478.
 - 3" MIN. BEDDING OF STONE UNDER BASE REQUIRED. ADDITIONAL BEDDING STONE MAY BE REQUIRED ON WET SUB-GRADE.
 - UNLESS NOTED ON THE PLANS CONTRACTOR IS RESPONSIBLE FOR ALL CATCH BASIN SIZING AND SHALL PROVIDE A SHOP DRAWING TO THE SIGMA GROUP, INC. BEFORE THEY ARE RELEASED FOR PRODUCTION.



CATCH BASIN / INLET CASTING TABLE

	IF 18" CURB & GUTTER		IF 24" CURB & GUTTER		IF 30" CURB AND GUTTER	
	CASTING	GRATE	CASTING	GRATE	CASTING	GRATE
CURB INLET	NEENAH R-3067	A	NEENAH R-3067	A	NEENAH R-3228H	C
AREA INLET	NEENAH R-1661-B	R-2467-D				

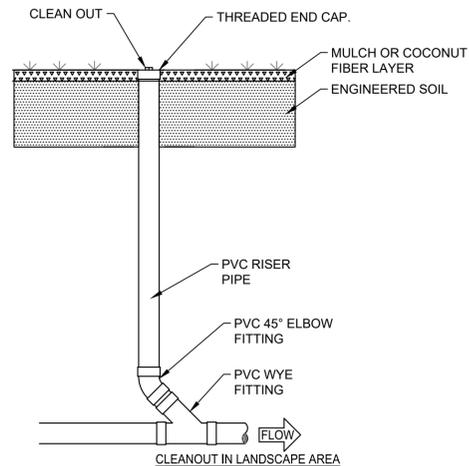
**A INLET AND CATCH BASIN
SCALE: NTS**



COMM TABLE 82.35

DIA. OF LATERAL	MIN. DI. OF CLEANOUT RISER	MIN. DI. OF RISER CAP
1.5	1.5	1.5
2	1.5	1.5
3	3	2.5
4	4	3.5
5	5	4
6	6	5
8+	6	6

**D CLEANOUT
SCALE: NTS**

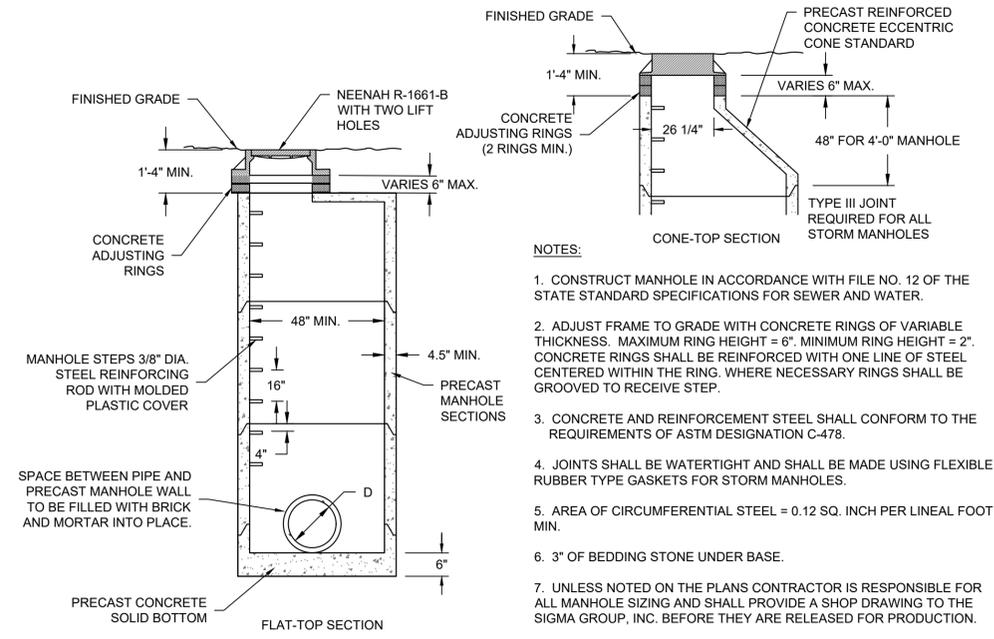


COMM TABLE 82.35

DIA. OF LATERAL	MIN. DI. OF CLEANOUT RISER	MIN. DI. OF RISER CAP
1.5	1.5	1.5
2	1.5	1.5
3	3	2.5
4	4	3.5
5	5	4
6	6	5
8+	6	6

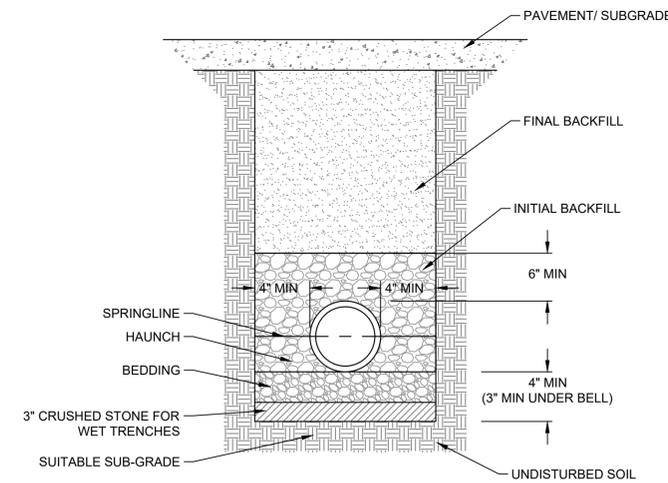
**D CLEANOUT
SCALE: NTS**

**B PRECAST STORM MANHOLE
SCALE: NTS**



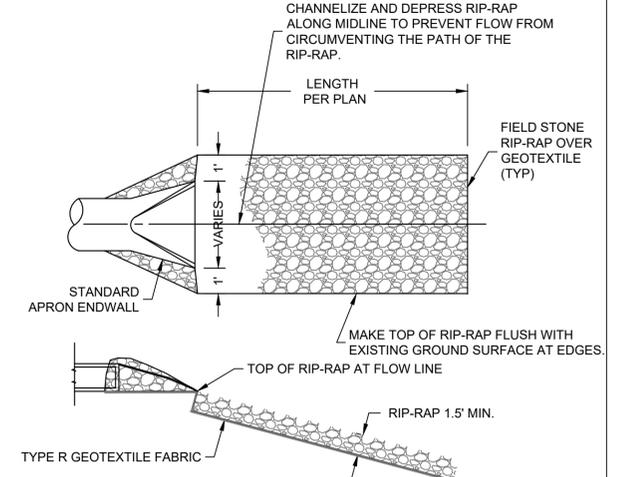
- NOTES:**
- CONSTRUCT MANHOLE IN ACCORDANCE WITH FILE NO. 12 OF THE STATE STANDARD SPECIFICATIONS FOR SEWER AND WATER.
 - ADJUST FRAME TO GRADE WITH CONCRETE RINGS OF VARIABLE THICKNESS. MAXIMUM RING HEIGHT = 6". MINIMUM RING HEIGHT = 2". CONCRETE RINGS SHALL BE REINFORCED WITH ONE LINE OF STEEL CENTERED WITHIN THE RING. WHERE NECESSARY RINGS SHALL BE GROOVED TO RECEIVE STEP.
 - CONCRETE AND REINFORCEMENT STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION C-478.
 - JOINTS SHALL BE WATERTIGHT AND SHALL BE MADE USING FLEXIBLE RUBBER TYPE GASKETS FOR STORM MANHOLES.
 - AREA OF CIRCUMFERENTIAL STEEL = 0.12 SQ. INCH PER LINEAL FOOT MIN.
 - 3" OF BEDDING STONE UNDER BASE.
 - UNLESS NOTED ON THE PLANS CONTRACTOR IS RESPONSIBLE FOR ALL MANHOLE SIZING AND SHALL PROVIDE A SHOP DRAWING TO THE SIGMA GROUP, INC. BEFORE THEY ARE RELEASED FOR PRODUCTION.

**E UTILITY TRENCH
SCALE: NTS**



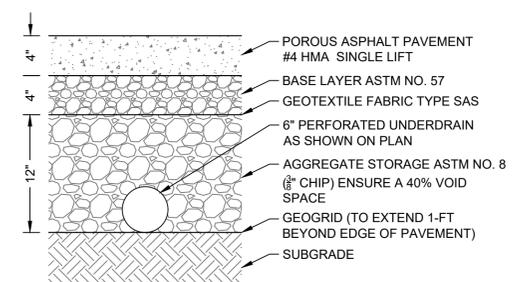
- NOTES:**
- INSTALL ALL PIPE IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND STANDARD SPECIFICATIONS FOR SEWER AND WATER IN WISCONSIN, LATEST EDITION.
 - FOUNDATION:** TRENCH BOTTOMS WITH UNSTABLE OR UNYIELDING MATERIAL SHALL BE EXCAVATED TO A DEPTH DIRECTED BY THE GEOTECHNICAL ENGINEER AND REPLACED WITH SUITABLE MATERIAL FOR UNSTABLE MATERIALS. GEOTEXTILE MAY BE USED TO STABILIZE THE TRENCH BOTTOM, IF DIRECTED BY THE GEOTECHNICAL ENGINEER.
 - BEDDING:** APPROPRIATE BEDDING IS REQUIRED TO PROVIDE UNIFORM SUPPORT FOR THE PIPE AND TO SUSTAIN GRADE.
 - HAUNCHING:** ADEQUATE HAUNCH SUPPORT IS CRITICAL TO THE INSTALLED PERFORMANCE OF BURIED PIPE. THE HAUNCH AREA ENCOMPASSES THE BEDDING ZONE UP TO THE SPRINGLINE OF THE PIPE. IF COMPACTION IS NECESSARY, AVOID DISTURBING PIPE ALIGNMENT DURING COMPACTION OPERATIONS. ALWAYS WORK ENOUGH MATERIAL UNDER THE HAUNCH TO PROVIDE ADEQUATE COMPACTION.
 - BACKFILLING:** IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION.

**E UTILITY TRENCH
SCALE: NTS**



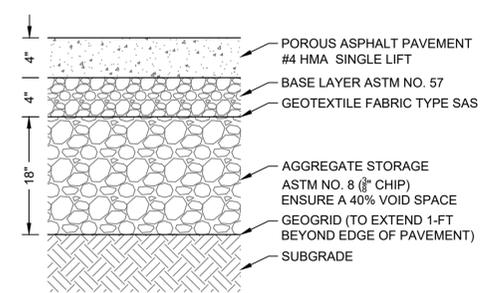
- NOTES:**
- INSTALL FIELD STONE RIP-RAP UNLESS OTHERWISE SHOWN ON PLANS.
 - FOR PERMANENT POOL (WET) DETENTION BASINS: EXTEND RIP-RAP FROM OUTFALL TO AT LEAST 10 FEET BEYOND THE NORMAL WATER LEVEL.
 - RIP-RAP SHALL BE MEDIUM RIP-RAP PER WISDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
 - GEOTEXTILE FABRIC SHALL BE TYPE R PER WISDOT STANDARD SPECIFICATIONS PER HIGHWAY AND STRUCTURE CONSTRUCTION.

**C RIP-RAP DISCHARGE APRON
SCALE: NTS**



- NOTES:**
- PAVEMENT SURFACE PERCENT VOIDS SHOULD BE LESS THAN 25%.
 - JOINT STONE AND BEDDING COURSE SHALL CONSIST OF ASTM C-33, 8, 9, 89, OR 57 AGGREGATE.
 - UNDERDRAINS CAN BE LOCATED WITHIN OR BELOW THE AGGREGATE STORAGE RESERVOIR. UNDERDRAINS (OR EQUIVALENT) ARE REQUIRED IF THE AGGREGATE STORAGE RESERVOIR DRAIN DOWN TIME WILL EXCEED 72 HOURS. THE SLOPE OF THE SUBGRADE SHALL BE AS FLAT AS POSSIBLE BE NO GREATER THAN 2%.
 - POROUS PAVEMENT SHALL CONFORM TO THE WDNR TECHNICAL STANDARD # 1008

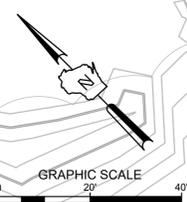
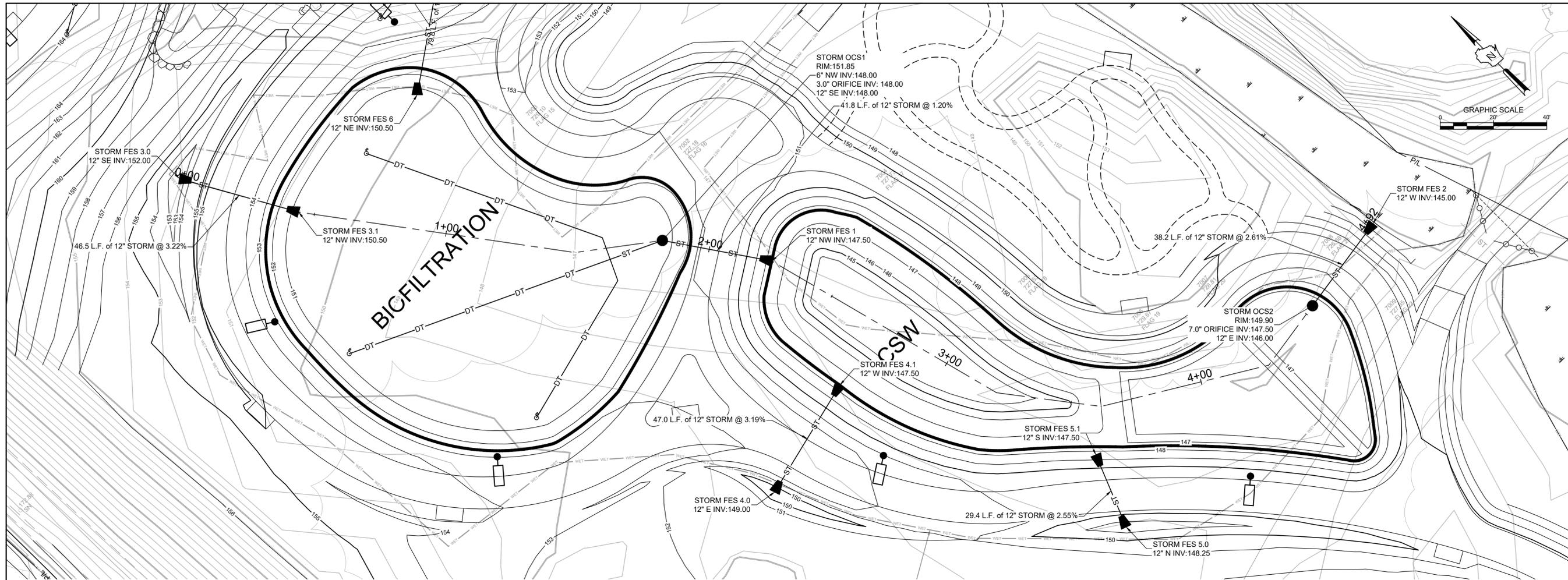
**F INTERIOR POROUS PAVEMENT
SCALE: 1" = 1'**



- NOTES:**
- PAVEMENT SURFACE PERCENT VOIDS SHOULD BE LESS THAN 25%.
 - JOINT STONE AND BEDDING COURSE SHALL CONSIST OF ASTM C-33, 8, 9, 89, OR 57 AGGREGATE.
 - POROUS PAVEMENT SHALL CONFORM TO THE WDNR TECHNICAL STANDARD # 1008

**G EXTERIOR POROUS PAVEMENT
SCALE: 1" = 1'**

CONTRACT:	24-02	DESCRIPTION	
FILE NO.:	21231	DATE	
DRAWN BY:	JRG		
CHECKED BY:	CTC		
SCALE:	AS SHOWN		
UTILITY DETAILS		CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION	
1900 N 116TH STREET WAUWATOSA, WI 53226			
C402			

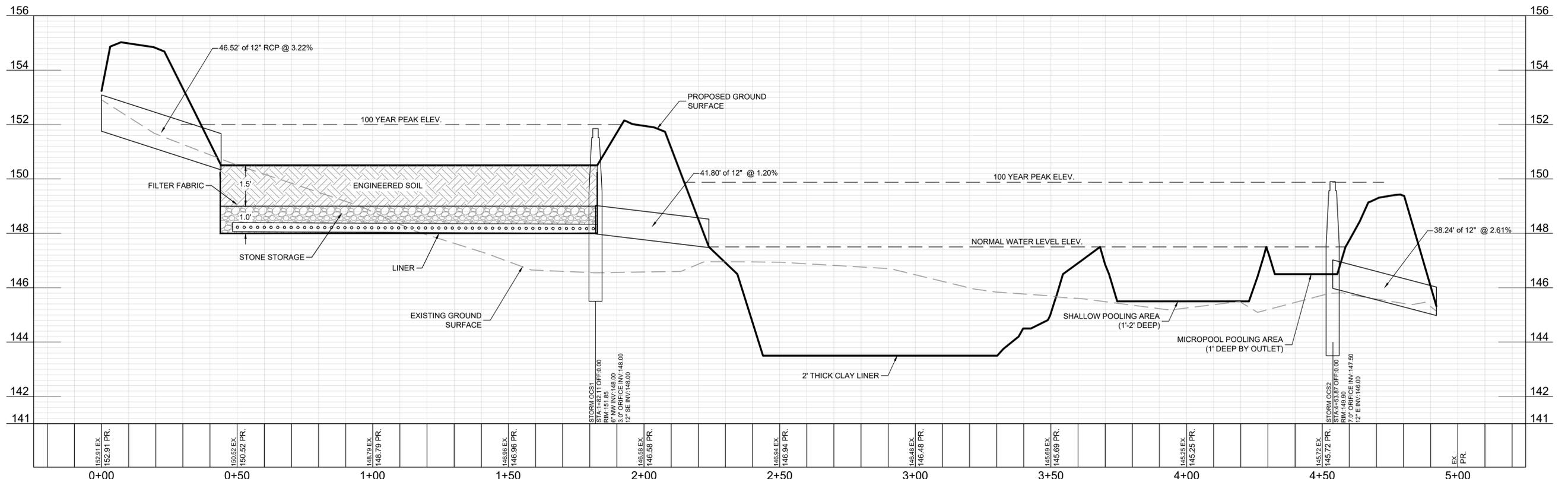


DATE	DESCRIPTION


CITY OF WAUWATOSA
 ENGINEERING SERVICES DIVISION


SIGMA GROUP
 Single Source. Sound Solutions.

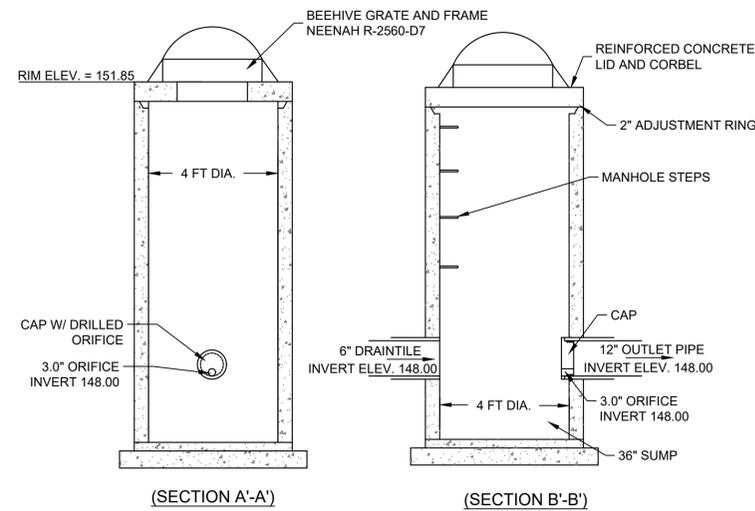

Site



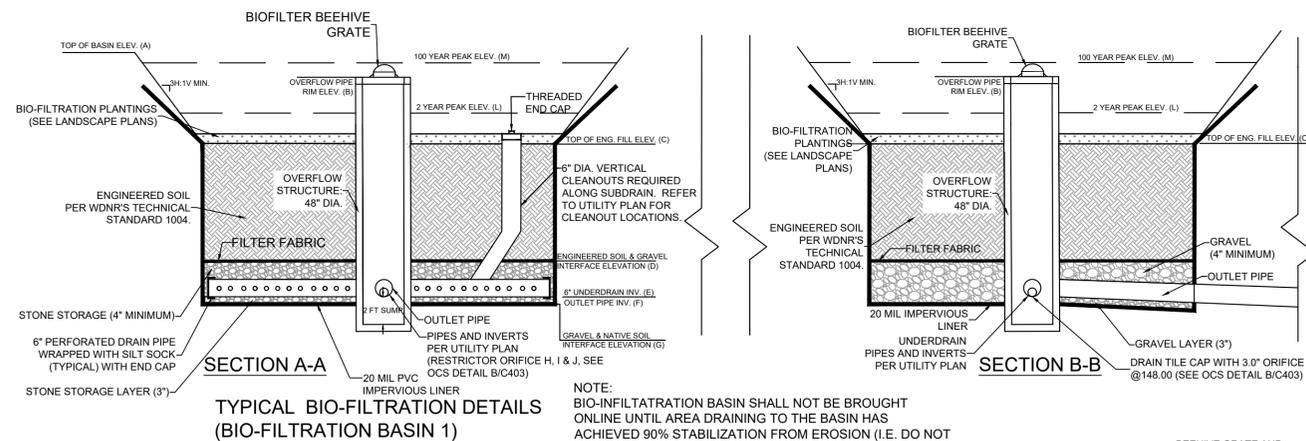
GI CROSS SECTION
 1900 N 116TH STREET
 WAUWATOSA, WI 53226

CONTRACT:	24-02
FILE NO.:	21231
DRAWN BY:	JRG
CHECKED BY:	CTC
SCALE:	AS SHOWN

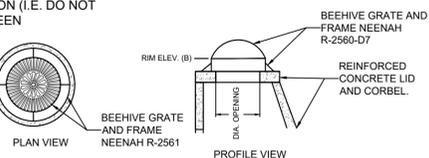
C403



A OUTLET CONTROL - BIOFILTRATION
SCALE: NTS



**TYPICAL BIO-FILTRATION DETAILS
(BIO-FILTRATION BASIN 1)**



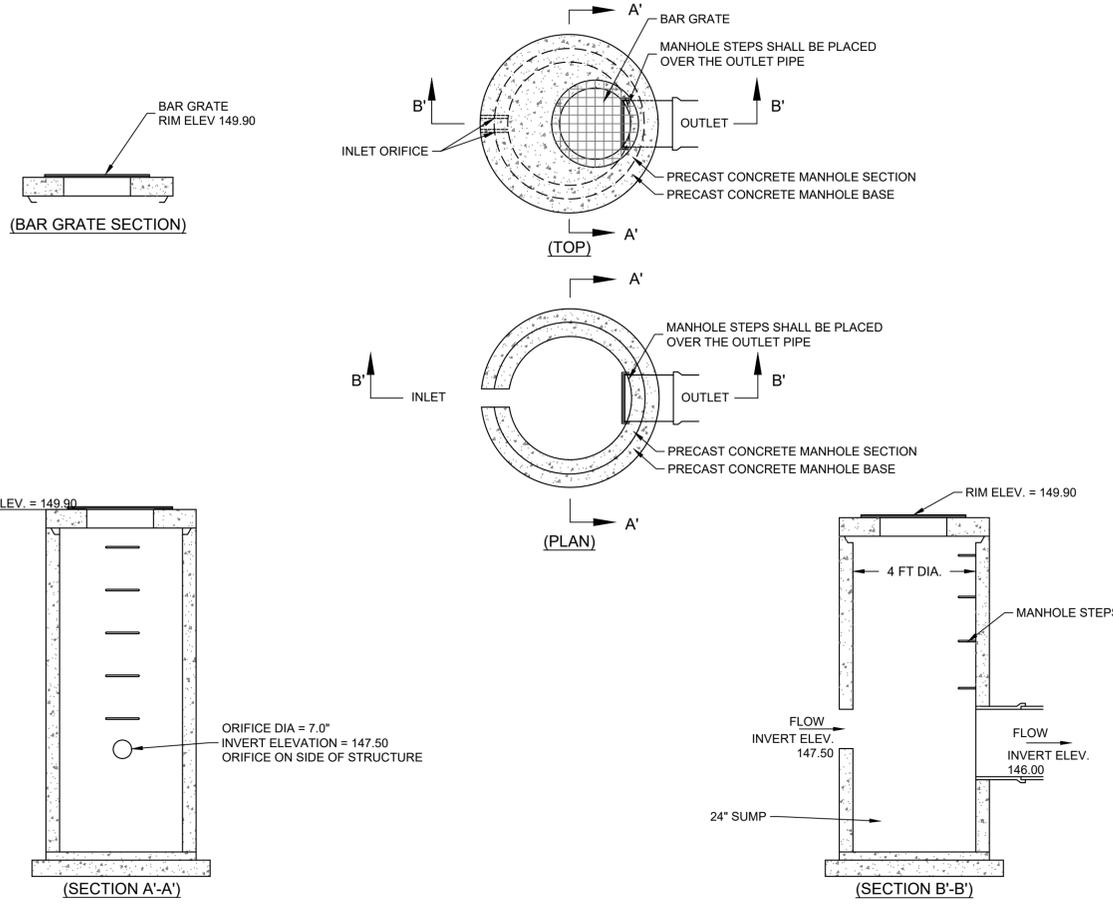
BIOFILTRATION AREA - GRATE DETAIL
NOT TO SCALE

- NOTE:**
- BIO-FILTRATION BASINS THAT HAVE MULTIPLE VERTICAL ORIFICES SHALL BE INSTALLED AT THE SAME ELEVATION AS IDENTIFIED IN THE TABLE.
 - MULTIPLE VERTICAL ORIFICES SHALL HAVE A MINIMUM OF 12 INCHES HORIZONTAL SEPARATION.

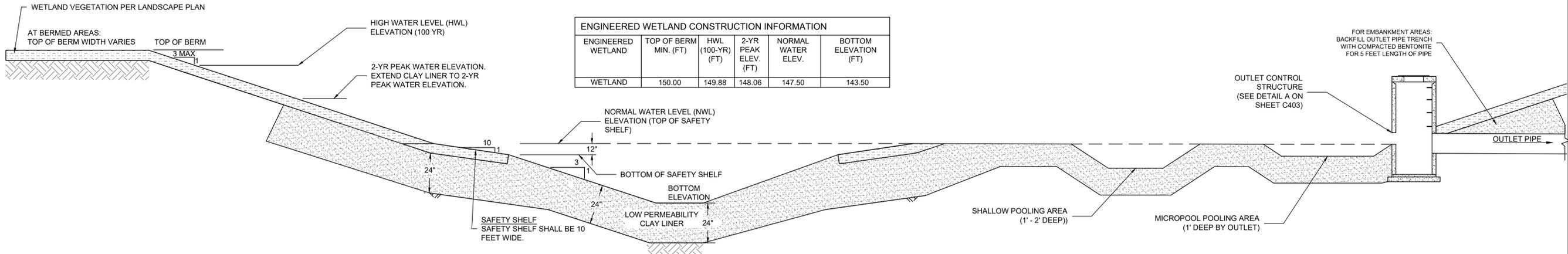
BIO-FILTRATION SUMMARY TABLE														
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	
BIO-FILTRATION AREA	TOP OF POND	OVERFLOW RIM ELEVATION	TOP OF ENGINEERED FILL ELEVATION	ENGINEERED SOIL AND GRAVEL INTERFACE ELEVATION	6" DIAMETER UNDERDRAIN ELEVATION	OUTLET PIPE SIZE	OUTLET PIPE ELEVATION	GRAVEL AND NATIVE SOIL INTERFACE ELEVATION	VERTICAL ORIFICE DIAMETER (INCH)	VERTICAL ORIFICE ELEVATION	# OF VERTICAL ORIFICES	SPILLWAY CREST ELEVATION	2 YR WATER ELEVATION	100 YR WATER ELEVATION
BIO 1	152.50	151.85	150.50	149.00	148.00	12	148.00	148.00	3	148.00	1	-	150.10	151.98

B BIOFILTRATION BASIN
SCALE: NTS

CONTRACT:	24-02	DESCRIPTION	
FILE NO:	21231	DATE	
DRAWN BY:	JRG		
CHECKED BY:	CTC		
SCALE:	AS SHOWN		
C404		CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION	
BIORETENTION DETAILS		1900 N 116TH STREET WAUWATOSA, WI 53226	



A OUTLET CONTROL - WETLAND
SCALE: NTS



ENGINEERED WETLAND CONSTRUCTION INFORMATION					
ENGINEERED WETLAND	TOP OF BERM MIN. (FT)	HWL (100-YR) (FT)	2-YR PEAK ELEV. (FT)	NORMAL WATER ELEV.	BOTTOM ELEVATION (FT)
WETLAND	150.00	149.88	148.06	147.50	143.50

LOW PERMEABILITY CLAY POND LINER:
MATERIAL FOR LOW PERMEABILITY CLAY POND LINER SHALL BE A NATURAL CLAY SOIL (CL MATERIAL) AS DEFINED BY THE UNIFIED SOIL CLASSIFICATION SYSTEM, FREE FROM ORGANIC OR OTHER DELETERIOUS MATERIAL. CLAY LINER SHALL BE A TYPE "B" LINER PER WDNR TECHNICAL STANDARD 1001 WHICH INCLUDES THE FOLLOWING CRITERIA: 50 PERCENT FINES (200 SIEVE) OR MORE, AN IN-PLACE HYDRAULIC CONDUCTIVITY OF 1X10E-6 CM/SEC OR LESS, AN AVERAGE LIQUID LIMIT VALUE OF 16 OR GREATER, WITH NO VALUE LESS THAN 14, AN AVERAGE PI OF 7 OR MORE WITH NO VALUES LESS THAN 5. IN-SITU CLAY (IF PRESENT) AT THE BASIN MAY BE USED TO SATISFY THE LINER REQUIREMENT PROVIDED IT MEETS THE WDNR TYPE B LINER REQUIREMENTS AND IS PRESENT IN-SITU AT A THICKNESS OF 3 OR MORE FEET. SUBMIT TEST DATA DEMONSTRATING ANY MATERIALS INTENDED FOR USE AS THE BASIN LINER MEET THE REQUIRED CRITERIA FOR A TYPE B LINER.
CLAY SOURCE SHALL BE APPROVED PRIOR TO INITIATING PLACEMENT OF THE CLAY MATERIAL. SUBMIT REPRESENTATIVE MOISTURE-DENSITY DATA FOR PROPOSED CLAY MATERIAL PRIOR TO START OF WORK. IF REQUESTED, FURNISH ENGINEER WITH REPRESENTATIVE CLAY MATERIAL SAMPLES FOR TESTING.
FIELD THICKNESS AND FIELD COMPACTION OF CLAY TO BE TESTED BY OWNER'S INDEPENDENT TESTING AGENCY.

LOW PERMEABILITY CLAY/POND LINER SHALL BE PLACED USING STANDARD COMPACTION TECHNIQUES, AS PER THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, SECTION 207.3.6. PERCENT COMPACTION SHALL BE GREATER THAN 95% OF STANDARD PROCTOR. MATERIAL SHALL BE COMPACTED WITH MOISTURE CONTENT WET OF OPTIMUM DENSITY MOISTURE. MATERIAL SHOULD BE PLACED IN LAYERS GENERALLY NOT EXCEEDING 8 INCHES IN THICKNESS BEFORE COMPACTION.
CLEARING AND SUBGRADE PREPARATION:
ALL EXISTING TOPSOIL, ROOTMAT, AND ANY OTHER SOFT OR UNSUITABLE MATERIALS SHALL BE REMOVED FROM THE CLEARING AND STRIPPING LIMITS. PRIOR TO INITIATION OF FILL PLACEMENT, THE STRIPPED AREA SHALL BE OBSERVED BY AN EXPERIENCED GEOTECHNICAL ENGINEER OR HIS AUTHORIZED REPRESENTATIVE TO AID IN LOCATING UNSUITABLE AND/OR HIGHLY PLASTIC MATERIALS WHICH REQUIRE COMPLETE AND/OR PARTIAL REMOVAL. THE PREPARATION OF FILL SUBGRADES OF EMBANKMENTS SHALL BE OBSERVED ON A FULL-TIME BASIS BY AN EXPERIENCED GEOTECHNICAL ENGINEER OR HIS AUTHORIZED REPRESENTATIVE TO ENSURE THAT ALL UNSUITABLE MATERIALS HAVE BEEN COMPLETELY REMOVED.

FILL PLACEMENT:
FILL MATERIALS SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL RECOMMENDATIONS.
THE FOOTPRINT OF THE EMBANKMENT AREAS SHALL BE WELL DEFINED, INCLUDING THE LIMITS OF THE FILL ZONES, AT THE TIME OF FILL PLACEMENT, WITH GRADE CONTROL MAINTAINED THROUGHOUT THE FILL PLACEMENT OPERATIONS.
FILL OPERATIONS SHALL BE OBSERVED ON A FULL-TIME BASIS BY A QUALIFIED SOIL TECHNICIAN, WHO SHALL PERFORM IN PLACE DENSITY TESTS TO DETERMINE IF MINIMUM COMPACTION REQUIREMENTS ARE BEING MET.
FILL MATERIALS SHALL NOT BE PLACED ON FROZEN SOILS. SIMILARLY, BORROW FILL MATERIALS SHALL NOT CONTAIN FROZEN MATERIALS AT THE TIME PLACEMENT. FROZEN SOILS, FROM BOTH SUBGRADE AND FILL, SHALL BE REMOVED PRIOR TO CONTINUATION OF FILL OPERATIONS.
AREAS RECEIVING FILL SHALL BE GRADED TO FACILITATE POSITIVE DRAINAGE OF ANY FREE WATER ASSOCIATED WITH PRECIPITATION AND SURFACE RUNOFF.

B ENGINEERED CONSTRUCTED WETLAND
SCALE: NTS

CONTRACT:	24-02	CONSTRUCTED WETLAND DETAILS
FILE NO.:	21231	1900 N 116TH STREET
DRAWN BY:	JRG	WAUWATOSA, WI 53226
CHECKED BY:	CTC	
SCALE:	AS SHOWN	
CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION		
DESCRIPTION	DATE	

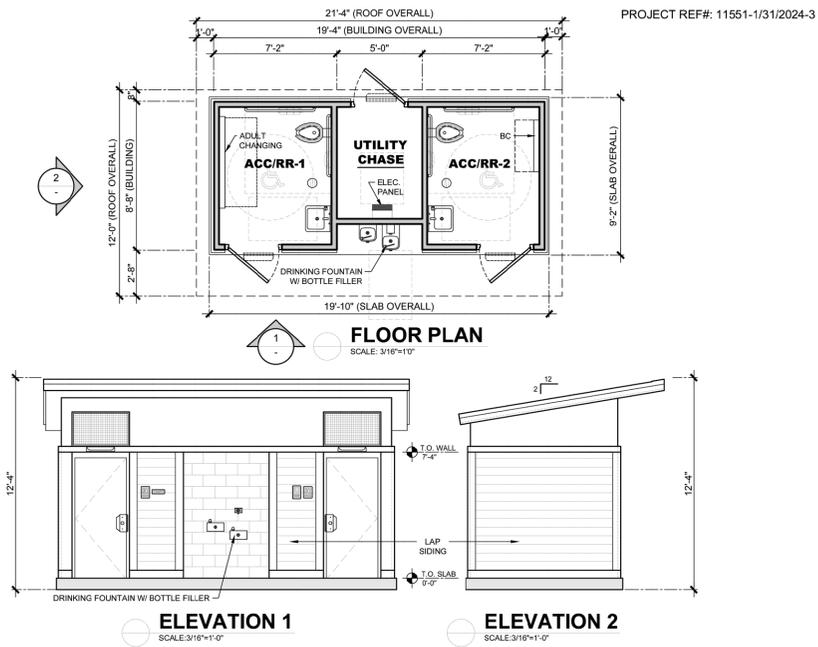


116TH STREET PARK WAUWATOSA, WISCONSIN
RESTROOM BUILDING

PUBLIC RESTROOM COMPANY
Building Better Places To Go.™

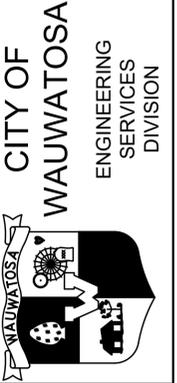
www.PublicRestroomCompany.com
2387 BUSINESS PARKWAY
MENDENHALL, NEVADA 89423
P: 888-888-2060 F: 888-888-1448

OWNER: CITY OF WAUWATOSA
ARCHITECT: JRG
DATE: 10/24/2023
SCALE: AS SHOWN



	BUILDING TYPE:	RESTROOM BUILDING	REVISION #	3	REVISION DATE:	1/31/2024	SHEET#	A-1
	PROJECT:	116TH STREET PARK WAUWATOSA, WI	PROJECT #:	11551	START DATE:	10/24/2023	MAX. PERSON/HOUR:	45 S
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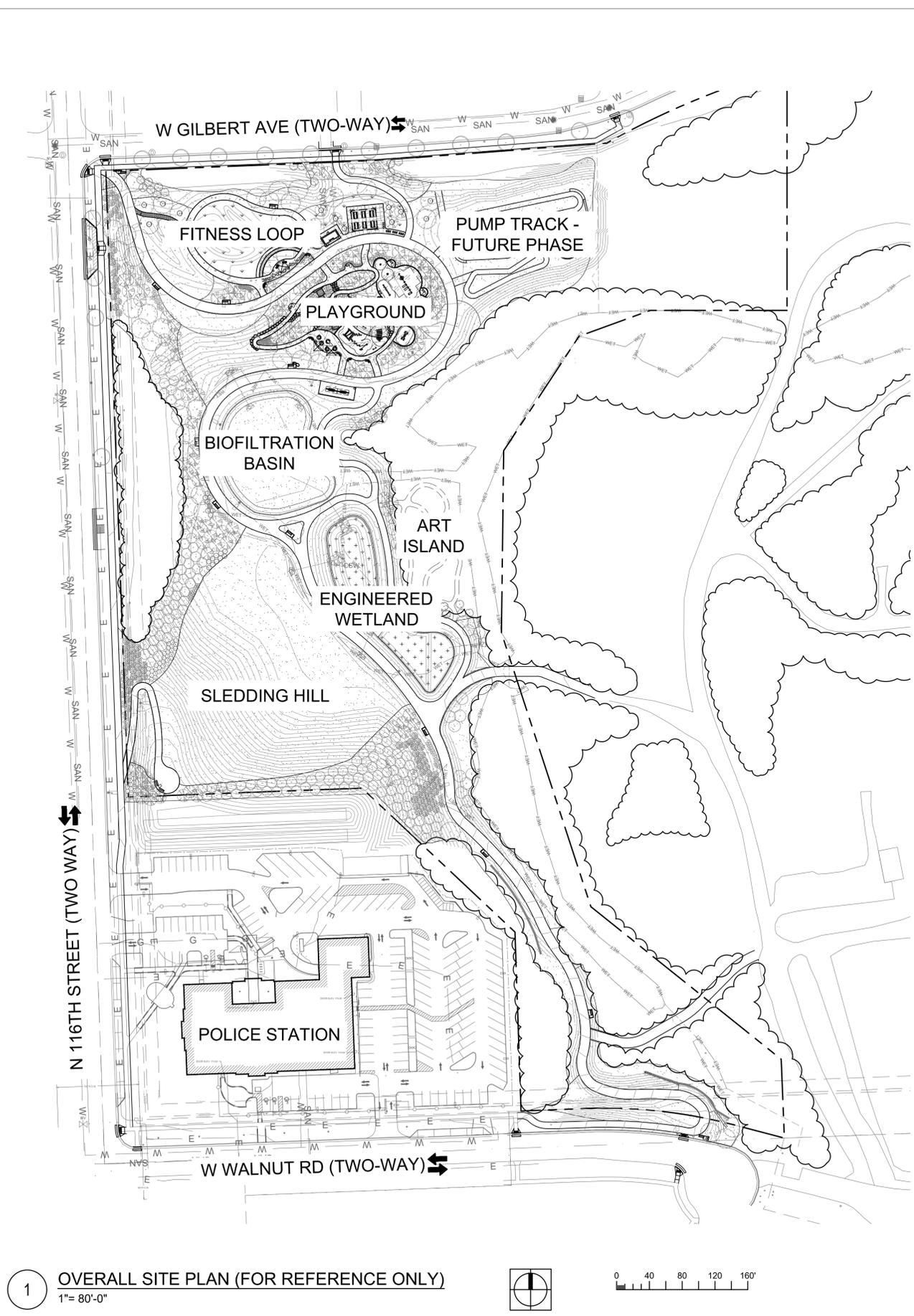
DATE	DESCRIPTION



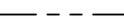
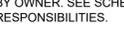
RESTROOM BUILDING DETAILS

1900 N 116TH STREET
WAUWATOSA, WI 53226

CONTRACT:	24-02
FILE NO.:	21231
DRAWN BY:	JRG
CHECKED BY:	CTC
SCALE:	AS SHOWN
C406	



LEGEND

-  PROPERTY LINE
-  RAISED CONCRETE CURB
-  FLUSH CONCRETE CURB
-  CONCRETE PAVEMENT
-  CONCRETE PAVEMENT THICKENED EDGE
-  EXPANSION JOINT
-  CONTROL JOINT
-  PLAY TURF SURFACING W/ AGGREGATE SUBBASE
-  PLAY TURF SURFACING W/ CONCRETE SUBBASE
-  ENGINEERED WOOD FIBER
-  STABILIZED AGGREGATE PAVING
-  SENSORY WALK
-  BOULDERS
-  LEDGE ROCK
-  STONE STEPPERS
-  EXISTING TREE TO REMAIN
-  TREES: FOR REFERENCE ONLY
-  EXISTING TREES TO REMAIN AND BE PROTECTED
-  SHRUBS: FOR REFERENCE ONLY
-  PERENNIALS AND ORNAMENTAL GRASSES FOR REFERENCE ONLY
-  SOD
-  EMERGENT PLUGS
-  SEED MIX - SEE PLANTING PLANS
-  MULCH RING
-  HANDRAIL
-  WOODEN PLATFORM
-  CONCRETE LOG BEAM
-  WOODEN LOG BEAM AND STEPPERS
-  BENCH SWINGS
-  PICNIC TABLES
-  BENCHES
-  GAME TABLE
-  BIKE RACK
-  HOT COAL RECEPTACLE
-  TRASH AND RECYCLING RECEPTACLES

NOTES:
 1. FURNISHINGS AND PLANTINGS NOT INCLUDING SEED TO BE FURNISHED BY OWNER. SEE SCHEDULES FOR CONTRACTOR INSTALLATION RESPONSIBILITIES.

1 OVERALL SITE PLAN (FOR REFERENCE ONLY)
 1" = 80'-0"



CONTRACT:	9509	DATE	DESCRIPTION
FILE NO:	DN		
DRAWN BY:	BK		
CHECKED BY:			
SCALE:			
			
			
OVERALL SITE PLAN (FOR REFERENCE ONLY) 1700 N 116TH STREET WAUWATOSA, WI 53226			
L002			

CONCRETE AND FORMWORK NOTES:

- ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING (INCLUDING BUT NOT LIMITED TO) AMERICAN CONCRETE INSTITUTE PUBLICATIONS:
 - ACI 301 - SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
 - ACI 304 - GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE
 - ACI 311 - GUIDE FOR CONCRETE INSPECTION
 - ACI 315 - DETAILS AND DETAILING OF CONCRETE REINFORCEMENT
 - ACI 318 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY
 - ACI 347 - GUIDE TO FORMWORK FOR CONCRETE
- CONCRETE SHALL BE AS FOLLOWS:
 - CONCRETE F'c PSI @ 28 DAYS
 - FOUNDATIONS AND FOOTINGS NORMAL WEIGHT (145 PCF) F'c = 4000 PSI
 - GRADE BEAMS NORMAL WEIGHT (145 PCF) F'c = 4000 PSI
 - EXTERIOR SLAB ON GRADE NORMAL WEIGHT (145 PCF) F'c = 4000 PSI
 - PADS FOR MEP EQUIP. NORMAL WEIGHT (145 PCF) F'c = 4000 PSI
 - ELEVATED SLABS, BEAMS NORMAL WEIGHT (145 PCF) F'c = 8000 PSI
- ALL EXTERIOR EXPOSED CONCRETE SHALL BE AIR-ENTRAINED TO GIVE THE CONCRETE AN AIR CONTENT OF 6 +/- 1.12% BY VOLUME. WATER REDUCING PLASTICIZING ADMIXTURES MAY BE USED, PENDING APPROVAL OF THE AOR, SOR AND LA.
- NO CALCIUM CHLORIDE OR CHLORIDE ION PRODUCING ADD MIXTURE SHALL BE USED IN ANY CONCRETE.
- FORMWORK FOR ALL CONCRETE WHICH WILL BE EXPOSED IN COMPLETED STRUCTURES SHALL BE CONSTRUCTED FROM A SUITABLE PLASTIC SURFACED PLYWOOD WHICH WILL PRODUCE AN ACCEPTABLY SMOOTH SURFACE. ALSO SEE THE SPECIFICATIONS.
- THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS SHOWING THE LOCATIONS OF ALL FORM TIES, CONSTRUCTION JOINTS, CURBS AND SLAB DEPRESSIONS, IF ANY, AND DESCRIBE THE CONCRETE PLACEMENT SEQUENCING. ALL CURBS SHALL BE REINFORCED WITH AT LEAST (1) - #4 CONTINUOUS AND #3 AT 18" C/C DOVELS TO THE STRUCTURE BELOW UNO.
- ALL CONSTRUCTION JOINTS SHALL BE WIRE BRUSHED AND CLEANED IMMEDIATELY PRIOR TO PLACING NEW CONCRETE. ALLOW 24 HOURS MINIMUM TO ELAPSE BETWEEN POURS.
- SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF ALL INTERIOR FLOOR FINISHES, FLOOR DEPRESSIONS AND CURBS AND FOR ALL WATERPROOFING/DAMP-PROOFING DETAILS. SEE MEP DRAWINGS FOR ADDITIONAL WALL AND/OR SLAB OPENINGS, AND EQUIPMENT PADS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- SCORE CONCRETE SLABS, WHERE REQUIRED, DRAINS SHOWN ON THE ARCHITECTURAL CIVIL AND/OR MEP.
- CONCRETE PROTECTION FOR REINFORCING BARS SHALL BE AS FOLLOWS:
 - FOOTINGS 3" CLEAR, SIDES AND BOTTOM
 - WALLS 2" CLEAR, OUTSIDE FACE, 1 1/2" CLEAR, INSIDE FACE
 - SLABS 1" CLEAR
 - PIERS 2" CLEAR TO TIES

DIMENSIONAL LUMBER:

- ALL WOOD CONSTRUCTION SHALL CONFORM TO THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION," LATEST EDITION, BY THE NATIONAL FOREST PRODUCT ASSOCIATION.
- STRUCTURAL LUMBER SHALL HAVE THE FOLLOWING MINIMUM IN-GRADE UNIT STRESSES:
 - GRADE: STRUCTURAL SELECT, REFER TO SPECIFICATIONS FOR SPECIES
 - FB = 1200 PSI
 - FV = 160 PSI
 - FC = 1,200 PSI
 - LF = 815 PSI
 - FT = 650 PSI
 - E = 1,400,000 PSI
- ALL LUMBER SHALL HAVE AN AVERAGE MOISTURE CONTENT OF NOT MORE THAN 19%.
- BOLT HEADS & NUTS BEARING ON WOOD SHALL BE PROVIDED WITH STANDARD CUT WASHERS.
- ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED UNO.
- MINIMUM NAILED CONNECTIONS FOR WOOD FRAMING MEMBERS SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE LATEST VERSION OF THE APPLICABLE JURISDICTIONAL BUILDING CODES.
- ALL STRUCTURAL WOOD EXPOSED TO THE ELEMENTS SHALL BE PRESSURE TREATED.
- ALL CONNECTIONS THROUGH PRESSURE TREATED WOOD SHALL BE MADE WITH CORROSION RESISTANT FASTENERS.

PLANTING PROTECTION AND REMOVAL NOTES:

- PRIOR TO THE COMMENCEMENT OF PLANTING PROTECTION AND REMOVAL SCOPE OF WORK, CONVENE A PRE-CONSTRUCTION CONFERENCE WITH AOR, LA, CONTRACTOR AND ANY ASSOCIATED AND RELEVANT DESIGN TEAM MEMBERS, SUBCONTRACTORS AND AHJ TO REVIEW WORK SCOPE, SCHEDULE AND TO REVIEW Q&A BY DESIGN TEAM, AHJ AND CONTRACTORS. CONTRACTOR TO PROVIDE MINIMUM 5 BUSINESS DAY NOTICE FOR ALL MEETINGS.
- CONFIRM ALL PLANTING REMOVAL AND PROTECTION QUANTITIES AND DIMENSIONS.
- INSTALL PLANT PROTECTION FENCING PRIOR TO SITE WORK AND MAINTAIN THROUGHOUT CONSTRUCTION PERIOD. NO STORAGE OF MATERIALS, VEHICULAR ACCESS OR ANY OTHER CONSTRUCTION ACTIVITIES PERMITTED WITHIN THE TREE PROTECTION ZONE UNO.
- ALL PLANT AND SITE PROTECTION FENCING TO BE INSTALLED PRIOR TO HARDSCAPE DEMOLITION AND/OR CONSTRUCTION OPERATIONS.
- ADJUST PLANT PROTECTION FENCING AS NEEDED THROUGHOUT CONSTRUCTION OPERATIONS TO PROTECT CRITICAL ROOT ZONES OF ALL TREES.
- MARK ALL ROOT PRUNING LOCATIONS PRIOR TO EXECUTION FOR REVIEW AND APPROVAL BY LA.
- PROVIDE 2 INCH (AFTER SETTLING) MULCH LAYER WITHIN CRITICAL ROOT ZONE OF EXISTING TREES AS MIN PROTECTION DURING CONSTRUCTION OPERATIONS. COORDINATE WITH AOR AND LA FOR ADDITIONAL MEASURES IF CRITICAL ROOT ZONES NEED TO BE ACCESSED FOR ANY REASON DURING CONSTRUCTION OPERATIONS. MULCH LAYER TO BE A 50/50 BLEND OF 1/4 INCH SHREDDED HARDWOOD BARK FINES AND 1/2 INCH PINE BARK FINES.
- PROVIDE TEMPORARY IRRIGATION FOR ALL EXISTING PLANT MATERIAL AND MAINTAIN THROUGHOUT CONSTRUCTION OPERATIONS. PROVIDE IN SUCH A MANNER AS TO NOT IMPACT EXISTING ROOT SYSTEMS OF PLANT MATERIAL.
- REMOVE ALL EXISTING TREE AND SHRUB STUMPS AND ROOTS THAT IMPACT WORK. GRIND OUT STUMPS TO A MINIMUM DEPTH OF 18". BRING TO FINISH GRADE PRIOR TO COMPLETION OF WORK.
- REMOVE MULCH, LAWN, AND PLANTING BEDS AND EXCAVATE EARTH TO COORDINATE WITH GRADING, EARTHWORK AND SITE IMPROVEMENTS.
- FOR PLANTING REMOVAL AND PROTECTION DETAILS, SEE SHEET(S) L-008, L-501.
- FOR PLANTING REMOVAL AND PROTECTION SCHEDULE, SEE SHEET(S) L-008.

MOCKUP NOTES:

- PRIOR TO THE COMMENCEMENT OF MOCKUPS, CONVENE A PRE-CONSTRUCTION CONFERENCE WITH AOR, LA, CONTRACTOR AND ANY ASSOCIATED AND RELEVANT DESIGN TEAM MEMBERS, SUBCONTRACTORS AND AHJ TO REVIEW WORK SCOPE, SCHEDULE AND TO REVIEW Q&A BY DESIGN TEAM, AHJ AND CONTRACTORS. CONTRACTOR TO PROVIDE MINIMUM 5 BUSINESS DAY NOTICE FOR ALL MEETINGS.

LANDSCAPE DRAINAGE NOTES:

- PRIOR TO THE COMMENCEMENT OF DRAINAGE SCOPE OF WORK, CONVENE A PRE-CONSTRUCTION CONFERENCE WITH AOR, LA, CONTRACTOR AND ANY ASSOCIATED AND RELEVANT DESIGN TEAM MEMBERS, SUBCONTRACTORS AND AHJ TO REVIEW WORK SCOPE, SCHEDULE AND TO REVIEW Q&A BY DESIGN TEAM, AHJ AND CONTRACTORS. CONTRACTOR TO PROVIDE MINIMUM 5 BUSINESS DAY NOTICE FOR ALL MEETINGS.
- CONFIRM ALL DRAINAGE QUANTITIES AND DIMENSIONS.
- LANDSCAPE DRAINAGE SHOWN IS IN ADDITION TO CIVIL DRAINAGE, REFER TO CIVIL.
- ALL DRAINAGE PIPING AND ACCESSORIES TO BE INSTALLED IN SEGMENTS WITH APPLICABLE CONNECTIONS. CONNECTION BETWEEN DRAINAGE PIPING IS NOT SHOWN BUT IS TO BE ASSUMED AND TO BE INCLUDED IN COSTS.
- COORDINATE TAP LOCATIONS WITH CIVIL, REFER TO CIVIL.

STRUCTURAL STEEL NOTES:

- ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITIONS OF ALL AISC AND AWS SPECIFICATIONS AND CODES.
- ALL STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL MEET THE REQUIREMENTS OF ASTM A992, Fy = 50 KSI, UNLESS NOTED OTHERWISE. ALL STRUCTURAL STEEL PIPES AND TUBES SHALL MEET THE REQUIREMENTS OF ASTM A500, GRADE B. ALL OTHER STRUCTURAL STEEL SHAPES SHALL MEET THE REQUIREMENTS OF ASTM A36 UNO ALL STEEL TO BE HOT DIP GALVANIZED.
- ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325 OR ASTM A440. ALL ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF ASTM F1554, Fy=36 KSI, UNO. ALL FASTENERS TO BE HOT DIP GALVANIZED UNO.
- ALL WELDING ELECTRODES SHALL BE E70XX UNO. ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS AND SHALL CONFORM TO AWS "CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION", LATEST EDITION.
- SHOP CONNECTIONS MAY BE WELDED UNO. MINIMUM WELDS NOT SHOWN ON THE DRAWINGS SHALL BE 1/4" FILLET WELDS ALL AROUND.
- UNO ON THE DRAWINGS, ALL CONNECTIONS SHALL BE STANDARD DOUBLE ANGLE SHEAR CONNECTIONS. ALL BOLTS SHALL BE MINIMUM 3/4" DIAMETER. ASTM A325. THE MINIMUM NUMBER OF VERTICAL ROWS OF BOLTS SHALL BE AS BELOW, UNLESS NOTED OTHERWISE ON THE DRAWINGS. IN CASES WHERE REACTIONS ARE NOT INDICATED, PROVIDE AT LEAST 75% OF THE UNIFORM LOAD CARRYING CAPACITY OF THE BEAM AS DETERMINED IN THE TABLES FOR "UNIFORM LOAD CONSTANTS FOR BEAMS" IN THE AISC MANUAL OF STEEL CONSTRUCTION, 14TH EDITION, OR THE REACTION FORCE WHEN INDICATED ON THE DRAWING AS (F=XX KIPS).
 - W6,W8, W10: (2) ROWS
 - W12 & W14: (3) ROWS
- SEE SPECIFICATIONS FOR CONNECTIONS DESIGN RESPONSIBILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES WITH RELATION TO TEMPERATURE DIFFERENTIAL AND TEMPORARY STRUCTURAL STABILITY.
- STEEL SHALL BE CLEANED OF RUST, LOOSE MILL SCALE AND OTHER FOREIGN MATERIALS WHERE REQUIRED FOR PROPER FABRICATION, FITTING UP OR WELDING.
- THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT THE PRIOR WRITTEN APPROVAL OF THE AOR, SOR AND LA.
- REFER TO THE ARCHITECTURAL AND/OR MEP DRAWINGS FOR ADDITIONAL STRUCTURAL AND MISCELLANEOUS STEEL REQUIREMENTS. ALL EXTERIOR EDGE ANGLES, LINTELS AND SHELF ANGLES SHALL BE STAINLESS STEEL OR GALVANIZED AFTER FABRICATION. SEE SPECIFICATION FOR REQUIREMENTS.

HARDSCAPE NOTES:

- PRIOR TO THE COMMENCEMENT OF HARDSCAPE SCOPE OF WORK, CONVENE A PRE-CONSTRUCTION CONFERENCE WITH AOR, LA, CONTRACTOR AND ANY ASSOCIATED AND RELEVANT DESIGN TEAM MEMBERS, SUBCONTRACTORS AND AHJ TO REVIEW WORK SCOPE, SCHEDULE AND TO REVIEW Q&A BY DESIGN TEAM, AHJ AND CONTRACTORS. CONTRACTOR TO PROVIDE MINIMUM 5 BUSINESS DAY NOTICE FOR ALL MEETINGS.
- CONFIRM ALL HARDSCAPE QUANTITIES AND DIMENSIONS.
- STAKE AND MARK ALL STRUCTURE EXTENTS AND FOOTING LOCATIONS, WALL FACES/BACKS, STAIR LOCATIONS, CURB FACES/BACKS AND PAVING EDGES PER PLANS FOR AOR AND LA REVIEW AND APPROVAL PRIOR TO EXCAVATION AND INSTALLATION. ADJUST ANY LAYOUT MODIFICATIONS BY AOR AND LA AT NO ADDITIONAL COST TO THE OWNER. ALL SURVEY AND LAYOUT COSTS BY CONTRACTOR.
- ESTABLISH APPROVED LAYOUT LINES AND GRADES AND MAINTAIN THROUGH CONSTRUCTION FOR VERIFICATION BY AOR AND LA. ALL LINES TO BE STRAIGHT AND TRUE. ALL CURVES SHALL BE SMOOTH AND NON-FACETED WITH BOTH IN ACCORDANCE WITH THE PLANS AND APPROVED FIELD LAYOUT BY AOR AND LA.
- FOR PRECISION OF LAYOUT REQUIREMENTS SEE SPECS. ALL EDGES OF HARDSCAPE ELEMENTS TO BE PAINTED AND MAINTAINED FOR AOR AND LA REVIEW AND APPROVAL PRIOR TO FORMING. ALL FORMING AND REINFORCEMENT TO BE REVIEWED AND APPROVED BY AOR AND LA PRIOR TO POURING.
- MATCH LINE AND GRADE OF PAVEMENT, LAWN AND PLANTING AREAS TO EXISTING ADJACENT AREAS.
- TRANSITION SMOOTHLY BETWEEN DIFFERENT SLOPES WITHOUT ABRUPT CHANGES IN SLOPE. REFER TO GRADING PLAN.
- GRADE ALL HARDSCAPE SURFACES TO A MAXIMUM 5% SLOPE WITH A MAXIMUM CROSS SLOPE OF 2% AND A MINIMUM SLOPE OF 1%. SLOPE ALL PAVEMENT TO DRAIN.
- ADJUST UTILITY STRUCTURES TO MEET FINISH GRADE.
- LAYOUT CONTROL JOINTS AT A MAX 5' OC AND EXPANSION JOINTS AT A MAX 30' OC UNO. IF PAVEMENT IS ARCED, LAYOUT CONTROL JOINTS EQUALLY ALONG LENGTH OF ARCH AND PERPENDICULAR TO CENTERLINE OF ARC UNO.
- ALL CONTROL JOINTS AND EXPANSION JOINTS ARE PERPENDICULAR AND PARALLEL TO BUILDING FACADE UNO.
- CLEAR ALL CONTROL JOINTS AND EXPANSION JOINTS PRIOR TO CUTTING FOR REVIEW AND APPROVAL BY AOR AND LA.
- ALL EXPOSED VERTICAL CONCRETE EDGES TO BE CHAMFERED 1/2" 45 UNO.
- REFER TO SPECIFICATIONS FOR PAVEMENT REPAIR AND RESTORATION CRITERIA.
- SET BOULDER OR ANY OTHER STONE ELEMENTS OR FEATURES PRIOR TO PLACING ADJACENT HARDSCAPES. PROVIDE EXPANSION JOINT BETWEEN VERTICAL ELEMENTS AND ADJACENT HORIZONTAL SURFACES. COORDINATE WITH AOR AND LA IN FIELD PRIOR TO PLACEMENT OF BOULDERS.
- COORDINATE REQUIREMENTS OF FOUNDATIONS FOR UTILITIES, LIGHTING, IRRIGATION AND SITE FURNISHINGS SCOPE IN CONJUNCTION WITH ALL HARDSCAPE OPERATIONS.
- FOR HARDSCAPE DETAILS, SEE SHEET(S) L-503A, L-503B, L-503C, L-503D, L-503E.
- FOR HARDSCAPE SCHEDULE, SEE SHEET(S) L-603.

SOIL NOTES:

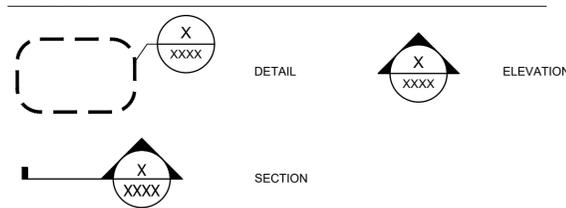
- CONFIRM ALL SOIL QUANTITIES AND DIMENSIONS.
- BASE SOIL MIX SHALL BE AS FOLLOWS:
 - PLANTING TOPSOIL, EITHER EXISTING ON SITE OR IMPORTED, TO BE USED FOR NEW PLANTING SOILS ACROSS THE ENTIRE SITE SHALL MEET THE FOLLOWING CRITERIA (AMEND AS NECESSARY TO MEET SPEC):
 - CLAY VALUE NOT TO EXCEED (IDEAL RANGE 10-15%)
 - SAND VALUE (IDEAL RANGE 60-70%) SAND VALUES SHALL BE MOSTLY MEDIUM TO COURSE ON THE .25 AND .50 SIEVE
 - REMAINDER TO BE SILT (IDEAL RANGE 15-30%)
 - ORGANIC MATTER NOT LESS THAN 3.5% AND NOT MORE THAN 5%
 - MIXED TOPSOIL, EITHER EXISTING ON SITE OR IMPORTED, TO BE USED FOR NEW PLANTING SOILS ACROSS THE ENTIRE SITE SHALL MEET THE FOLLOWING CRITERIA (AMEND AS NECESSARY TO MEET SPEC):
 - CLAY VALUE NOT TO EXCEED 25% (IDEAL RANGE 5-25%)
 - SAND VALUE (IDEAL RANGE 25-50%) SAND VALUES SHALL BE MOSTLY MEDIUM TO COURSE ON THE .25 AND .50 SIEVE
 - REMAINDER TO BE SILT (IDEAL RANGE 25-50%)
 - ORGANIC MATTER NOT LESS THAN 3.5% AND NOT MORE THAN 5%
- AMENDMENTS FOR PLANTING MIXES:
 - MIXED SOIL AMENDMENTS (4" DEPTH PROFILE TILLED INTO THE PROPOSED SOIL PROFILE DEPTH):
 - 4 PARTS AGED PINE FINES
 - 2 PARTS COMPOSTED RICE HULLS
 - 2 PARTS COMPOSTED RICE HULLS
 - PLACED SOIL AMENDMENTS:
 - GYPSUM-50#/1000 SF
 - UMAXX UREA-4#/1000 SF
 - POTASSIUM SULFATE-5#/1000SF
 - POTASSIUM SULFATE-5#/1000SF
 - MONO-AMMONIUM PHOSPHATE-21#/1000SF
- AMENDMENTS FOR LAWN MIXES:
 - MIXED SOIL AMENDMENTS:
 - N/A
 - PLACED SOIL AMENDMENTS:
 - GYPSUM-50#/1000 SF
 - UMAXX UREA-4#/1000 SF
 - POTASSIUM SULFATE-5#/1000SF
 - POTASSIUM SULFATE-5#/1000SF
 - MONO-AMMONIUM PHOSPHATE-21#/1000SF
- PROVIDE MULTIPLE SEPARATE SOURCES FOR INITIAL TESTING IN HOPE TO MINIMIZE THE NEED FOR ADDITIONAL SOIL AMENDMENTS.
- PROVIDE 1 QUART SAMPLE ALONG WITH TESTING DATA FOR AOR AND LA REVIEW AND APPROVAL PRIOR TO FINAL PROCUREMENT AND PLACEMENT.
- PLANTING MIX SHALL BE LOOSELY MIXED WITH A LOADER BUCKET AS FOLLOWS AND AS NECESSARY TO MEET SPEC. MIX "MIXED" SOIL AMENDMENTS TOGETHER SEPARATELY IN THE CORRECT PROPORTION. ADD SOIL AMENDMENTS BLEND TO UNSCREENED TOPSOIL. USE A PUSH AND DRAG MOTION WITH THE LOADER BUCKET. MIX THE COMPONENTS. DO NOT OVER MIX. USE TECHNIQUES THAT PRESERVE SOIL PIDS IN THE FINAL MIX.
- LAWN MIX TO BE APPROVED TOPSOIL WITHOUT AMENDMENTS UNO.
- PRIOR TO PLACEMENT SCARIFY/FRACTURE SUB-GRADE AND VERTICAL EDGES OF PLANTING SOIL EXCAVATIONS.
- IMPORT SOIL TO MEET PROPOSED GRADES AFTER SETTLING. TOP OF SOIL PROFILE TO MEET 85% MODIFIED PROCTOR AFTER SETTLING.
- PROVIDE TEST RESULTS FOR EVERY 1000 YARDS OF PLACED SOIL TO ENSURE ALL SOIL CONFORMS TO APPROVED PARAMETERS.
- ONCE PLACED, SOIL PROFILES SHOULD BE PROTECTED FROM COMPACTION. SOIL PROFILES AFFECTED BY COMPACTION SHOULD BE REMOVED AND REPLACED OR AMENDED IN PLACE UNDER THE REVIEW OF AOR AND LA.

PLANTING NOTES:

- PRIOR TO THE COMMENCEMENT OF PLANTING SCOPE OF WORK, CONVENE A PRE-CONSTRUCTION CONFERENCE WITH AOR, LA, CONTRACTOR AND ANY ASSOCIATED AND RELEVANT DESIGN TEAM MEMBERS, SUBCONTRACTORS AND AHJ TO REVIEW WORK SCOPE, SCHEDULE AND TO REVIEW Q&A BY DESIGN TEAM, AHJ AND CONTRACTORS. CONTRACTOR TO PROVIDE MINIMUM 5 BUSINESS DAY NOTICE FOR ALL MEETINGS.
- CONFIRM ALL PLANTING QUANTITIES AND DIMENSIONS. QUANTITIES PROVIDED ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR TO VERIFY IMPLIED COVERAGE ON THE PLANTING PLANS. CONTRACTOR TO BRING ANY DISCREPANCIES TO THE ATTENTION OF THE LA AT THE TIME OF BID.
- ALL PLANT MATERIAL TO BE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
- OBTAIN PERMIT FROM CITY OF CHICAGO BUREAU OF FORESTRY FOR ANY TREES REMOVED OR REPLACED IN THE PUBLIC ROW IF APPLICABLE.
- OBTAIN A PERMIT TO REMOVE, SPRAY OR OTHERWISE AFFECT THE GENERAL HEALTH OR STRUCTURE OF EXISTING OR NEW TREES AND/OR OTHER PLANT MATERIAL.
- EXISTING PARKWAY AND INTERIOR TREES/FENCING TO BE PROTECTED WHILE PROJECT IS UNDER CONSTRUCTION AND WILL BE REPLACED IF DAMAGED BY CONTRACTOR.
- TAKE GREAT CARE NOT TO DAMAGE EXISTING OR NEW TREES OR OTHER PLANT MATERIAL DURING EXCAVATION, PLANTING AND OTHER CONSTRUCTION OPERATIONS. SEEK AOR AND LA APPROVAL TO WORK WITHIN THE DRIP LINE OF EXISTING TREES.
- TAKE GREAT CARE WHEN WORKING WITHIN THE DRIP LINE OF ANY TREE IF APPROVED BY AOR AND LA. WHEN TRENCHING WITHIN DRIP LINES OF ANY TREE, OPERATIONS SHOULD BE CONDUCTED BY HAND WORKING IN A WHEEL AND SPOKE MANNER WORKING FROM THE TRUNK OF TREE OUTWARD. DAMAGED OR TORN ROOTS SHOULD BE IMMEDIATELY REPAIRED WITH A SMOOTH, CLEAN CUT. TAKE GREAT CARE DURING TILLAGE OPERATIONS WITHIN SPECIFIED TREE PROTECTION ZONES OF TREES TO REMAIN. WHEN MAJOR ROOTS ARE ENCOUNTERED EXCAVATE BY HAND TO AVOID DAMAGE TO ROOT SYSTEM.
- ALL PLANT MATERIAL TO BE SPECIFIC QUALITY, WELL MATCHED IN FORM, NURSERY GROWN, SOUND, HEALTHY, VIGOROUS AND FREE OF INSECTS, DISEASE AND INJURIES WITH HABIT OF GROWTH THAT IS TYPICAL FOR THE SPECIES. SIZES SHALL BE EQUAL TO OR GREATER THAN THOSE NOTED ON THE PLANT LIST(S). DO NOT PROCEED WITH PLANTING UNLESS LA HAS APPROVED ALL PLANT MATERIAL. ALL B&B MATERIAL TO BE OBTAINED FROM NURSERIES WITH SIMILAR SOIL CONDITIONS AS THE PROJECT SITE.
- PROVIDE AOR AND LA WITH PLANT LIST AND INTENDED NURSERY SUPPLIERS FOR EACH ITEM TO LA WITHIN 30 DAYS OF AWARD OF CONTRACT. ANY UNAVAILABLE PLANT MATERIAL SHOULD BE NOTED AT THAT TIME. AOR AND LA RESERVES THE RIGHT TO ASSIST IN PLANT SOURCING AS NECESSARY. PROVIDE AOR AND LA WITH SUBSTITUTION LIST IN THE EVENT PROPOSED MATERIALS ARE UNAVAILABLE PRIOR TO PROCUREMENT FOR FINAL REVIEW AND APPROVAL.
- COORDINATE NURSERY SELECTION AND TAGGING WITH AOR AND LA. AOR AND LA RESERVES THE RIGHT TO ACCEPT OR REJECT ANY AND ALL PLANT MATERIAL AS IT RELATES TO THE REQUIREMENTS IN THE SPECIFICATIONS. AOR AND LA RESERVES THE RIGHT TO REJECT PLANT MATERIAL IF DAMAGED OR UNHEALTHY UPON ARRIVAL TO THE PROJECT SITE EVEN AFTER INITIAL APPROVAL.
- PROVIDE IDENTIFICATION TAG FROM THE SUPPLYING NURSERY SHOWING COMMON AND BOTANICAL PLANT NAMES FOR AT LEAST ONE PLANT OF EACH UNIQUE SPECIES DELIVERED TO THE SITE.
- PRIOR TO PLANTING INSTALLATION, VERIFY PLANTING AREAS ARE GRADED AT +/-0.1 FEET TO FINISHED GRADE.
- CONFIRM PLANTING AREAS ARE MIN 4 INCHES BELOW FINISH FLOOR ELEVATION UNO.
- FINISHED GRADE OF PLANTING AREAS TO MEET ADJACENT HARDSCAPES 2 INCHES BELOW ELEVATION OF HARDSCAPES UNO.
- IF PLANTING PITS ARE MACHINE EXCAVATED AND GLAZING IS PRONOUNCED, SCARIFY ALL SIDES.
- REMOVE ALL ROCK AND DEBRIS 1 INCH AND LARGER FROM PLANTING AREAS. LEGALLY DISPOSE ALL EXCESS MATERIALS RESULTING FROM THE WORK.

- WITHIN PLANTING EXCAVATIONS, REMOVE CRUSHED AGGREGATE TO AN ADEQUATE DEPTH TO ENSURE THAT NO PART OF THE PLANT MATERIAL OR FUTURE EXTENTS OF ROOT SYSTEM IS IN CONTACT OR AFFECTED BY THE LIME OR LIMESTONE WITHIN THE AGGREGATE.
- STAKE ALL TREES AND FLAG ALL SHRUB LOCATIONS FOR REVIEW AND APPROVAL BY AOR AND LA PRIOR TO PLANTING. PROVIDE LA WITH A MINIMUM OF 5 BUSINESS DAYS NOTICE PRIOR TO REVIEW.
- SET ALL TREES AND SHRUBS ON TOP OF FINISHED GRADE PER APPROVED STAKED AND FLAGGED LOCATIONS FOR FACING AND FINAL APPROVAL BY AOR AND LA PRIOR TO PLANTING.
- FOR ALL GRASSES, PERENNIALS, GROUNDCOVER AND ANNUALS, SET OUT PLANT MATERIAL ON TOP OF PROPOSED GRADE FOR AOR AND LA REVIEW PRIOR TO PLANTING IN ACCORDANCE WITH PLANTING PLANS. AOR AND LA RESERVE THE RIGHT TO MODIFY THE PLANTINGS AS NEEEDED.
- INSTALL ALL PLANT MATERIAL IN ACCORDANCE WITH THE DETAILS AND SPECIFICATIONS.
- REMOVE ALL PLANT TYING MATERIAL AND MARKING TAPES AT THE TIME OF PLANTING. LEAVE AOR AND LA NURSERY SEALS IN PLACE FOR THE DURATION OF THE SPECIFIED WARRANTY PERIOD.
- FOR B&B MATERIAL, REMOVE TOP 1/3 OF METAL CAGE AND BURLAP FROM ROOT BALL AND PROPERLY DISPOSE. DO NOT FOLD DOWN, CAGE MUST BE REMOVED. IMMEDIATELY REPORT ANY DAMAGE TO ROOT BALLS OR PLANTS TO AOR AND LA. FOR CONTAINER MATERIAL WHERE APPLICABLE LOOSEN ROOT MASS BY HAND OR IF REQUIRED BY CUTTING (4) 1 INCH DEEP VERTICAL SLITS EVENLY SPACED AROUND ROOT BALL OF PLANT PRIOR TO PLANTING. REPEAT SLITS IN X PATTERN ON BOTTOM OF ROOT MASS.
- ROOT FLARE OF PLANTS TO BE SET MIN AT FINISHED GRADE OR NO MORE THAN 3 INCHES ABOVE FINISHED GRADE.
- ROOT FLARE OF PLANTS INSTALLED IMMEDIATELY ADJACENT TO HARDSCAPE TO BE PLANTED NO MORE THAN 1 INCH ABOVE FINISHED GRADE TO ENSURE SMOOTH TRANSITION TO HARDSCAPE.
- FOR PERENNIALS AND GROUNDCOVERS, PLANT 1 INCH ABOVE SOIL PROFILE TO ACCOMMODATE MULCH LAYER.
- DURING BACKFILL OF ALL PLANTS (WITH THE EXCEPTION OF SOD AND SEEDED LAWS) SUPPLEMENT BACKFILL WITH PLANTING SOIL SUPPLEMENTS AS NOTED IN THE SPECS. REFER TO MANUFACTURER REQUIREMENTS FOR INSTALLATION.
- DO NOT ALLOW AIR POCKETS TO FORM IN SOIL WHILE BACKFILLING.
- TREE STAKING AND GUYING TO BE REVIEWED WITH AOR AND LA WHEN DEEMED NECESSARY PRIOR TO INSTALLATION.
- ALL NEWLY INSTALLED PLANT MATERIAL SHALL BEAR THE SAME RELATIONSHIP TO THE NEW GRADE AS THEY BORE TO NURSERY GRADES UNO.
- WATER AND MAINTAIN PLANT MATERIAL WHILE BEING STORED ON SITE, IMMEDIATELY AFTER PLANTING AND UNTIL FINAL ACCEPTANCE.
- ALL PLANTINGS BED EDGES TO HAVE A SPADED EDGE UNO. BOTTOM OF SPADED EDGE TO BE 2 INCHES BELOW THATCH OR ADJACENT HARDSCAPE SURFACE.
- PROVIDE 2 INCH (AFTER SETTLEMENT) OF MULCH OVER ALL PLANTING BEDS UPON COMPLETION OF PLANTING OPERATIONS. MULCH TO BE A 50/50 BLEND OF 1/4 INCH SHREDDED HARDWOOD BARK FINES AND 1/2 INCH PINE BARK FINES UNO.
- SOD IS TO BE CUT WITH 1 INCH OF SOIL UNO.
- DO NOT ALLOW SOD TO BE ROLLED UP FOR A PERIOD LONGER THAN 12 CONSECUTIVE HOURS.
- AOR AND LA TO APPROVE FINE GRADING OF LAWN SOIL PRIOR TO SOD INSTALLATION.
- SCARIFY LAWN SOIL 1/2 INCH PRIOR TO INSTALLATION AND APPROVED BY LA.
- ALTERNATE SOD SEAMS TO ELIMINATE CONTINUOUS SEAMS, OVERLAPPING ADJACENT SOD PANEL BY 1/2 FOR SMALL ROLL SOD.
- INSTALL AND MAINTAIN SOD TO ELIMINATE LUMPS IN SURFACE AND SEAMS.
- SOD TO MEET ALL ADJACENT HARDSCAPE SURFACES FLUSH WITH TOP OF THATCH LAYER.
- ROLL SOD WITH APPROPRIATELY SIZED ROLLER TO PROVIDE PROPER SOD TO SOIL INTERFACE.
- COMPLETELY WATER IN SOD DEEPLY IMMEDIATELY AFTER ROLLING.
- PROTECT SEEDED AREAS AND SLOPES AGAINST EROSION AND SEED LOSS DUE TO BIRDS AND OTHER WILDLIFE BY APPLYING SHORT TERM, BIODEGRADABLE EROSION CONTROL, BLANKETS, MATS, AND/OR NETTING AFTER COMPLETION OF SEEDING OPERATIONS. ADHERE TO MANUFACTURER'S REQUIREMENTS FOR REQUIRED PLACEMENT AND STAKING.
- PRUNING OPERATIONS SHOULD FOLLOW APPLICABLE ANS STANDARDS UNO. UPON COMPLETION OF WORK UNDER THIS CONTRACT, PRUNE AND REPAIR INJURIES TO ALL PLANTS. LIMIT AMOUNT OF PRUNING TO MINIMUM NECESSARY TO REMOVE INJURED OR DAMAGED BRANCHES, TWIGS AND STEMS AND TO COMPENSATE FOR THE LOSS OF ROOTS AS A RESULT OF TRANSPILANTING OPERATIONS. PRUNE IN SUCH A MANNER AS NOT TO CHANGE NATURAL HABIT OR SHAPE UNO. ALL HEDGE PRUNING TO BE COMPLETED UNDER THE REVIEW BY AOR AND LA.
- DURING PUNCH LIST REVIEW, COORDINATE WITH AOR AND LA TO REVIEW AESTHETIC PRUNING NEEDS FOR ALL PLANTS. AOR AND LA TO MARK (WITH YELLOW RIBBON) OR SELF-CONDUCT AESTHETIC PRUNING WITH CONTRACTOR AS PART OF THE SUBSTANTIAL COMPLETION REVIEW.
- WARRANTY ALL PLANT MATERIAL FOR A MIN PERIOD OF 1 YEAR FROM FINAL ACCEPTANCE UNO IN THE SPECIFICATIONS. REMOVE AND REPLACE PLANTS AS DETERMINED BY LA TO BE SIGNIFICANTLY UNHEALTHY OR DEAD PER THE CRITERIA SET FORTH IN THE SPECS. CONDUCT REPLACEMENTS DURING THE APPROPRIATE PLANTING SEASON AS DETERMINED BY THE LOCAL CLIMATE AND INDUSTRY STANDARDS. REPLACEMENTS SHOULD CONFORM TO THE CRITERIA SHOWN AND SPECIFIED. SEE SPECS FOR ALL MAINTENANCE REQUIREMENTS. SIZE, CHARACTER AND FORM OF ALL REPLACEMENTS TO BE SIMILAR TO THE ORIGINAL APPROVED MATERIAL AND APPROVED BY THE AOR AND LA.
- ALL PLANT MATERIAL IS SHOWN AS ANTICIPATED SIZE AT INSTALLATION. PLANT GROWTH VARIES BY SPECIES AND YEARLY CLIMATIC CONDITIONS.

SYMBOLS:



Sheet List Table

Sheet Number	Sheet Title
L002	OVERALL SITE PLAN (FOR REFERENCE ONLY)
L003	GENERAL NOTES
L101	LANDSCAPE SITE PLAN
L101A.1	LANDSCAPE SITE PLAN ENLARGEMENT
L101A.2	LANDSCAPE PLAN ENLARGEMENT
L102A.2	PLAYGROUND GRADING PLAN ENLARGEMENT
L103A.1	HARDSCAPE PLAN ENLARGEMENT
L103A.2	HARDSCAPE PLAN ENLARGEMENT
L104A.1	SITE FURNISHINGS PLAN ENLARGEMENT
L104A.2	PLAYGROUND EQUIPMENT ENLARGEMENT PLAN (FOR REFERENCE ONLY)
L105	SOILS PLAN
L106	PLANTING PLAN
L106A	NORTH TREES AND SHRUBS PLANTING PLAN ENLARGEMENT
L106A.1	PLAYGROUND SHRUBS AND PERENNIALS PLANTING PLAN ENLARGEMENT
L106A.2	PLANTING PLAN ENLARGEMENT
L106B	PLANTING PLAN ENLARGEMENT
L106C	PLANTING PLAN ENLARGEMENT
L501	PRESERVATION AND DEMOLITION DETAILS
L503	HARDSCAPE DETAILS
L503A	HARDSCAPE DETAILS
L503B	HARDSCAPE DETAILS
L503C	HARDSCAPE DETAILS
L503D	HARDSCAPE DETAILS
L504	SITE FURNISHING DETAILS
L504A	SITE STRUCTURES
L504B	SITE STRUCTURES
L504C	PLAYGROUND DETAILS
L504D	PLAYGROUND FURNISHING RENDERINGS
L506	PLANTING DETAILS
L506A	PLANTING DETAILS
L603	HARDSCAPE SCHEDULE
L603A	HARDSCAPE SCHEDULE
L604	SITE FURNISHINGS SCHEDULE
L606	PLANTING SCHEDULE
L1000	AREAS TO BE IRRIGATED

DESCRIPTION	DATE	 CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION	 THE SIGMA GROUP Single Source. Sound Solutions.	 1700 N 116TH STREET WAUWATOSA, WI 53226	CONTRACT: 9509 FILE NO.: DN DRAWN BY: BK CHECKED BY: BK SCALE:	L003



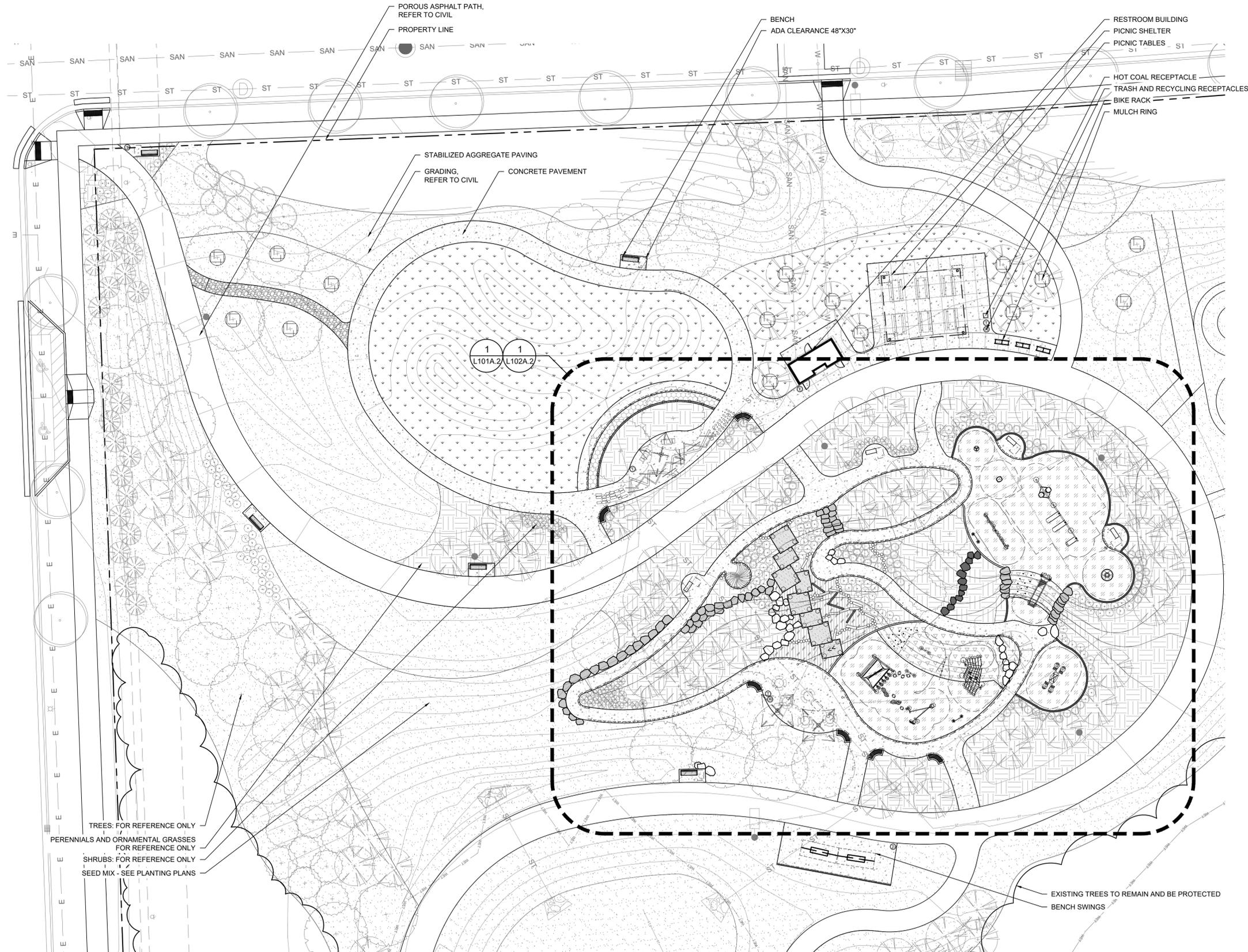
1 OVERALL SITE PLAN (FOR REFERENCE ONLY)
1" = 80'-0"



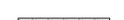
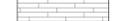
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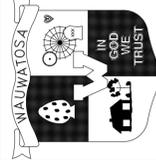
- PROPERTY LINE
- RAISED CONCRETE CURB
- FLUSH CONCRETE CURB
- CONCRETE PAVEMENT
- CONCRETE PAVEMENT THICKENED EDGE
- EXPANSION JOINT
- CONTROL JOINT
- PLAY TURF SURFACING W/ AGGREGATE SUBBASE
- PLAY TURF SURFACING W/ CONCRETE SUBBASE
- ENGINEERED WOOD FIBER
- STABILIZED AGGREGATE PAVING
- SENSORY WALK
- BOULDERS
- LEDGE ROCK
- STONE STEPPERS
- EXISTING TREE TO REMAIN
- TREES: FOR REFERENCE ONLY
- EXISTING TREES TO REMAIN AND BE PROTECTED
- SHRUBS: FOR REFERENCE ONLY
- PERENNIALS AND ORNAMENTAL GRASSES FOR REFERENCE ONLY
- SOD
- EMERGENT PLUGS
- SEED MIX - SEE PLANTING PLANS
- MULCH RING
- HANDRAIL
- WOODEN PLATFORM
- CONCRETE LOG BEAM
- WOODEN LOG BEAM AND STEPPERS
- BENCH SWINGS
- PICNIC TABLES
- BENCHES
- GAME TABLE
- BIKE RACK
- HOT COAL RECEPTACLE
- TRASH AND RECYCLING RECEPTACLES

CONTRACT:	9509	DESCRIPTION:
FILE NO:	DN	DATE:
DRAWN BY:	BK	
CHECKED BY:		
SCALE:		
L101		
LANDSCAPE SITE PLAN		
1700 N 116TH STREET WAUWATOSA, WI 53226		
ENGINEERING SERVICES DIVISION		



LEGEND

-  PROPERTY LINE
-  RAISED CONCRETE CURB
-  FLUSH CONCRETE CURB
-  CONCRETE PAVEMENT
-  CONCRETE PAVEMENT THICKENED EDGE
-  EXPANSION JOINT
-  CONTROL JOINT
-  PLAY TURF SURFACING W/ AGGREGATE SUBBASE
-  PLAY TURF SURFACING W/ CONCRETE SUBBASE
-  ENGINEERED WOOD FIBER
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-  HOT COAL RECEPTACLE
-  TRASH AND RECYCLING RECEPTACLES

CONTRACT:	9509	DATE	DESCRIPTION
FILE NO:	DN		
DRAWN BY:	BK		
CHECKED BY:			
SCALE:			
LANDSCAPE SITE PLAN ENLARGEMENT		CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION	
1700 N 116TH STREET WAUWATOSA, WI 53226			
L101A.1			

1 LANDSCAPE SITE PLAN ENLARGEMENT
1"=20'-0"



BENCHES
SOD
PERENNIALS AND ORNAMENTAL GRASSES FOR REFERENCE ONLY
TREES: FOR REFERENCE ONLY
GAME TABLE
SENSORY WALK
HANDRAIL
PAINTED CONCRETE STRIPING

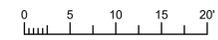
ADA CLEARANCE
RAISED CONCRETE CURB
STONE STEPPERS
FLUSH CONCRETE CURB
PLAY TURF SURFACING W/ AGGREGATE SUBBASE
PLAY TURF SURFACING W/ CONCRETE SUBBASE

LEGEND

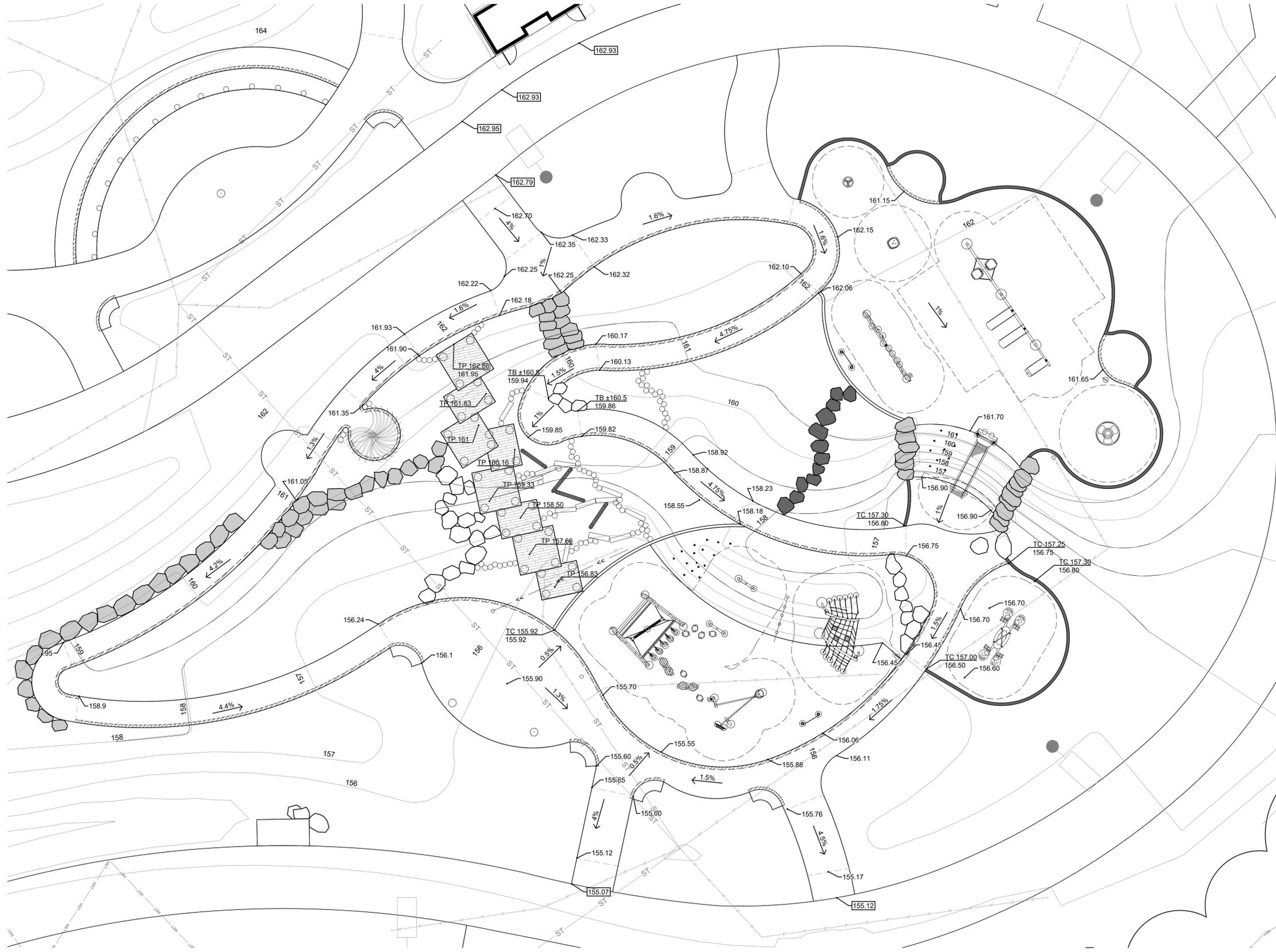
- PROPERTY LINE
- RAISED CONCRETE CURB
- FLUSH CONCRETE CURB
- CONCRETE PAVEMENT
- CONCRETE PAVEMENT THICKENED EDGE
- EXPANSION JOINT
- CONTROL JOINT
- PLAY TURF SURFACING W/ AGGREGATE SUBBASE
- PLAY TURF SURFACING W/ CONCRETE SUBBASE
- ENGINEERED WOOD FIBER
- STABILIZED AGGREGATE PAVING
- SENSORY WALK
- BOULDERS
- LEDGE ROCK
- STONE STEPPERS
- EXISTING TREE TO REMAIN
- TREES: FOR REFERENCE ONLY
- EXISTING TREES TO REMAIN AND BE PROTECTED
- SHRUBS: FOR REFERENCE ONLY
- PERENNIALS AND ORNAMENTAL GRASSES FOR REFERENCE ONLY
- SOD
- EMERGENT PLUGS
- SEED MIX - SEE PLANTING PLANS
- MULCH RING
- HANDRAIL
- WOODEN PLATFORM
- CONCRETE LOG BEAM
- WOODEN LOG BEAM AND STEPPERS
- BENCH SWINGS
- PICNIC TABLES
- BENCHES
- GAME TABLE
- BIKE RACK
- HOT COAL RECEPTACLE
- TRASH AND RECYCLING RECEPTACLES

WILLOW HUT
LEDGEROCK
CONCRETE PAVEMENT
CONCRETE PAVEMENT THICKENED EDGE
WOODEN LOG AND STEPPERS
CONCRETE LOG
SHRUBS: FOR REFERENCE ONLY
WOODEN PLATFORM
ENGINEERED WOOD FIBER
TRASH AND RECYCLING RECEPTACLES
FABRIC SHADE STRUCTURE
PICNIC TABLES

1 LANDSCAPE PLAN ENLARGEMENT
1"=10'-0"



CONTRACT:	DESCRIPTION
9509	
FILE NO. DN	
DRAWN BY: BK	
CHECKED BY: BK	
SCALE:	
CITY OF WAUWATOSA	
ENGINEERING DIVISION	
LANDSCAPE PLAN ENLARGEMENT	
1700 N 116TH STREET	
WAUWATOSA, WI 53226	
L101A.2	



LEGEND

- PROPERTY LINE
- RAISED CONCRETE CURB
- FLUSH CONCRETE CURB
- BOULDERS
- STONE STEPPERS
- WOODEN PLATFORM
- CONCRETE LOG
- WOODEN LOG AND STEPPERS
- SITE GRADING SPOT ELEVATION REFER TO CIVIL

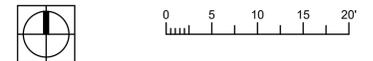
PLAYGROUND GRADING

- GRADE BREAK LINE
- SPOT ELEVATION
- T/B SPOT ELEVATION
- SLOPE INDICATOR

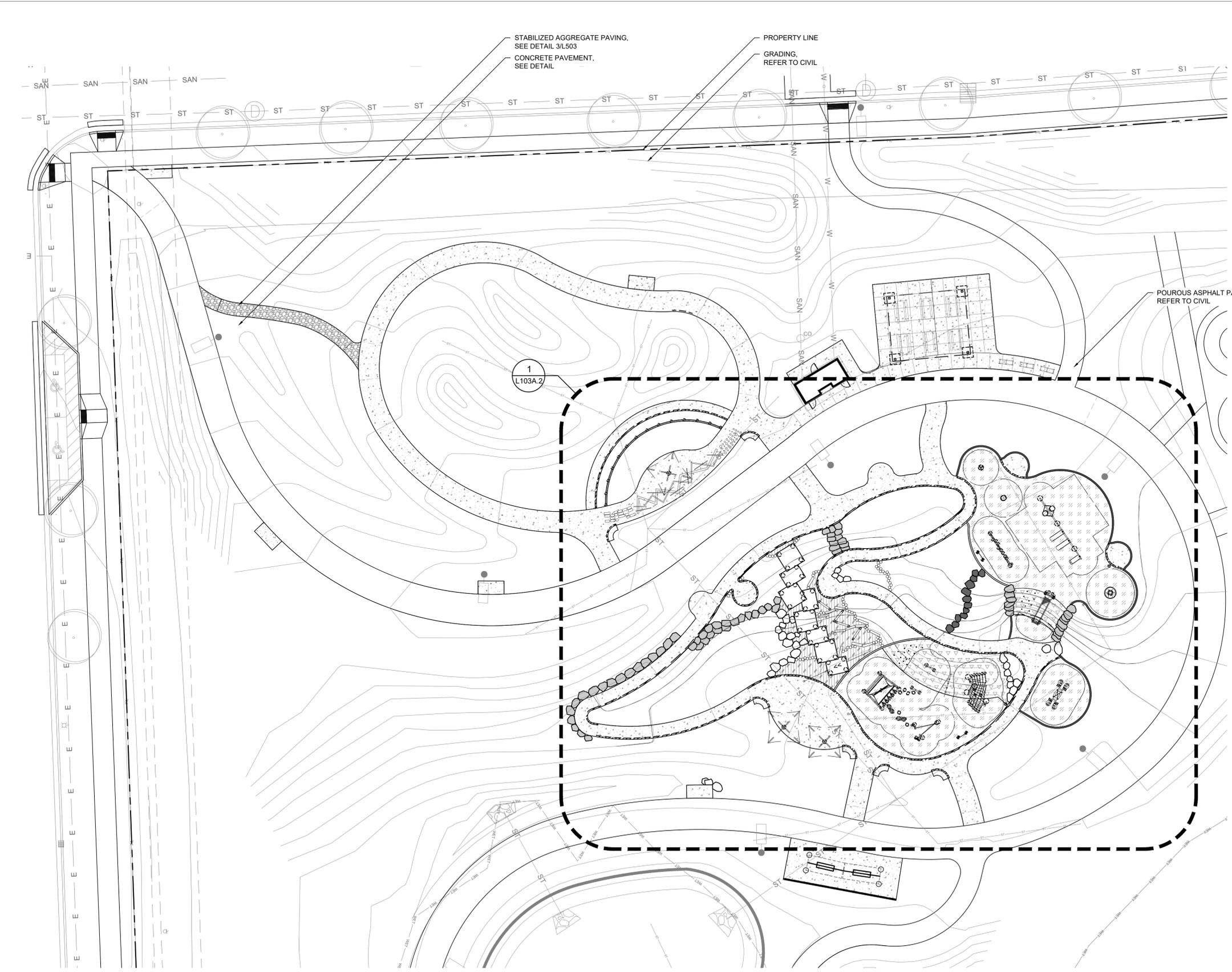
GRADING ABBREVIATIONS:

- TB TOP OF BOULDER
- TC TOP OF CURB
- TLB TOP OF LOG BALANCE BEAM
- TLS TOP OF LOG STEPPER
- TS TOP OF STONE STEPPER
- TP TOP OF PLATFORM

1 PLAYGROUND GRADING PLAN ENLARGEMENT
1"=10'-0"



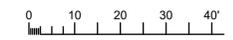
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FILE NO: DN		
DRAWN BY: BK		
CHECKED BY: BK		
SCALE: L102A.2		THE SIGMA GROUP site
PLAYGROUND GRADING PLAN ENLARGEMENT		
1700 N 116TH STREET WAUWATOSA, WI 53226		DATE: _____ DESCRIPTION: _____



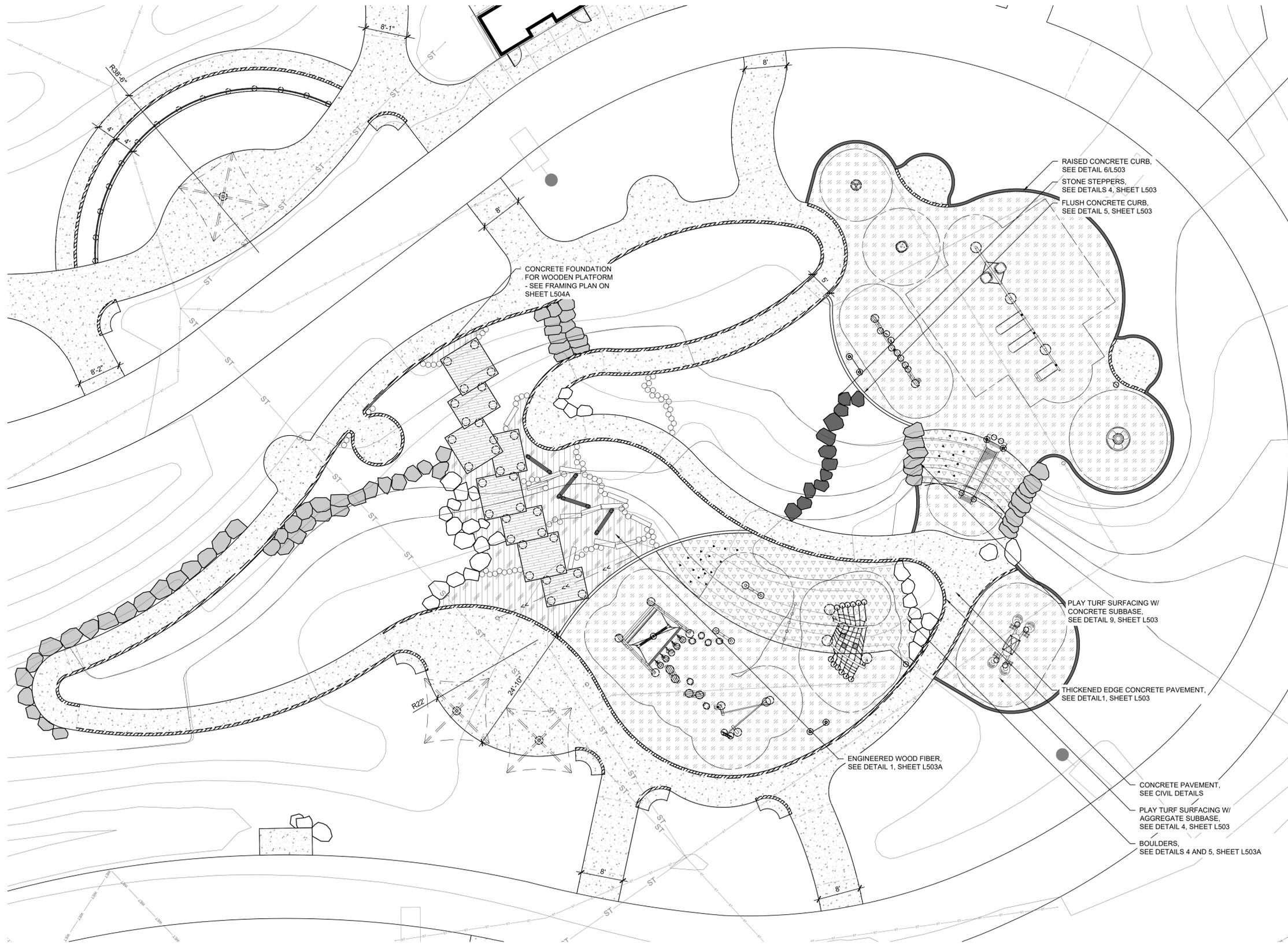
LEGEND

-  PROPERTY LINE
-  RAISED CONCRETE CURB
-  FLUSH CONCRETE CURB
-  CONCRETE PAVEMENT
-  CONCRETE PAVEMENT THICKENED EDGE
-  EXPANSION JOINT
-  CONTROL JOINT
-  PLAY TURF SURFACING W/ AGGREGATE SUBBASE
-  PLAY TURF SURFACING W/ CONCRETE SUBBASE
-  ENGINEERED WOOD FIBER
-  STABILIZED AGGREGATE PAVING
-  SENSORY WALK
-  BOULDERS
-  LEDGE ROCK
-  STONE STEPPERS

1 HARDSCAPE PLAN ENALRGEMENT
1"= 20'-0"



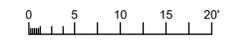
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FILE NO:	DN	DATE
DRAWN BY:	BK	
CHECKED BY:		
SCALE:		
L103A.1		
HARDSCAPE PLAN ENALRGEMENT		
1700 N 116TH STREET		
WAUWATOSA, WI 53226		
 		



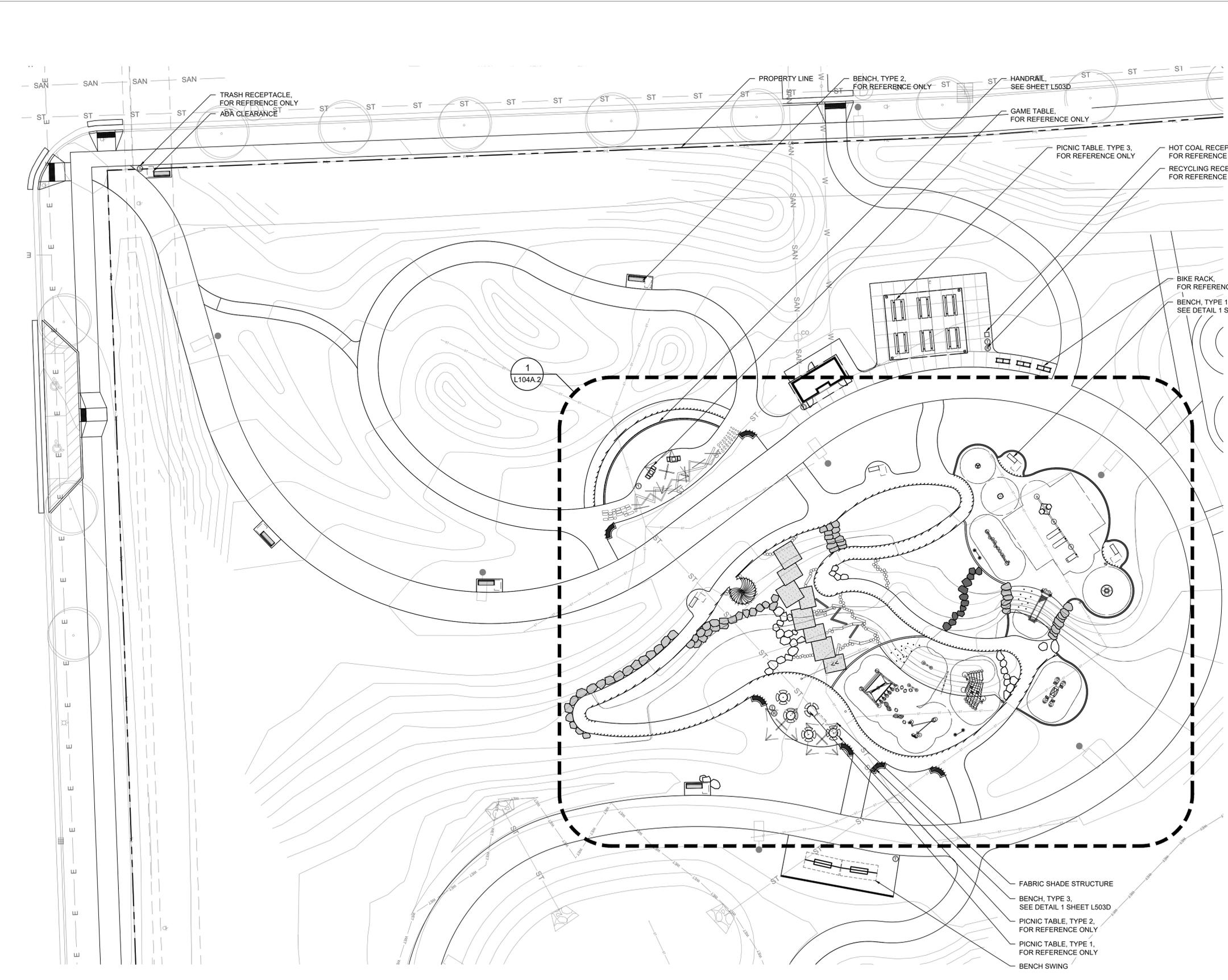
LEGEND

	PROPERTY LINE
	RAISED CONCRETE CURB
	FLUSH CONCRETE CURB
	CONCRETE PAVEMENT
	CONCRETE PAVEMENT THICKENED EDGE
	EXPANSION JOINT
	CONTROL JOINT
	PLAY TURF SURFACING W/ AGGREGATE SUBBASE
	PLAY TURF SURFACING W/ CONCRETE SUBBASE
	ENGINEERED WOOD FIBER
	STABILIZED AGGREGATE PAVING
	SENSORY WALK
	BOULDERS
	LEDGE ROCK
	STONE STEPPERS

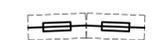
1 HARDSCAPE PLAN ENLARGEMENT
1"= 10'-0"



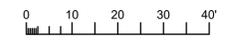
CONTRACT:	9509
FILE NO:	DN
DRAWN BY:	BK
CHECKED BY:	BK
SCALE:	1"= 10'-0"
<p>CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION</p>	
<p>SIGMA GROUP Single Source. Sound Solutions.</p>	
<p>HARDSCAPE PLAN ENLARGEMENT</p> <p>1700 N 116TH STREET WAUWATOSA, WI 53226</p>	
<p>L103A.2</p>	

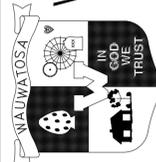


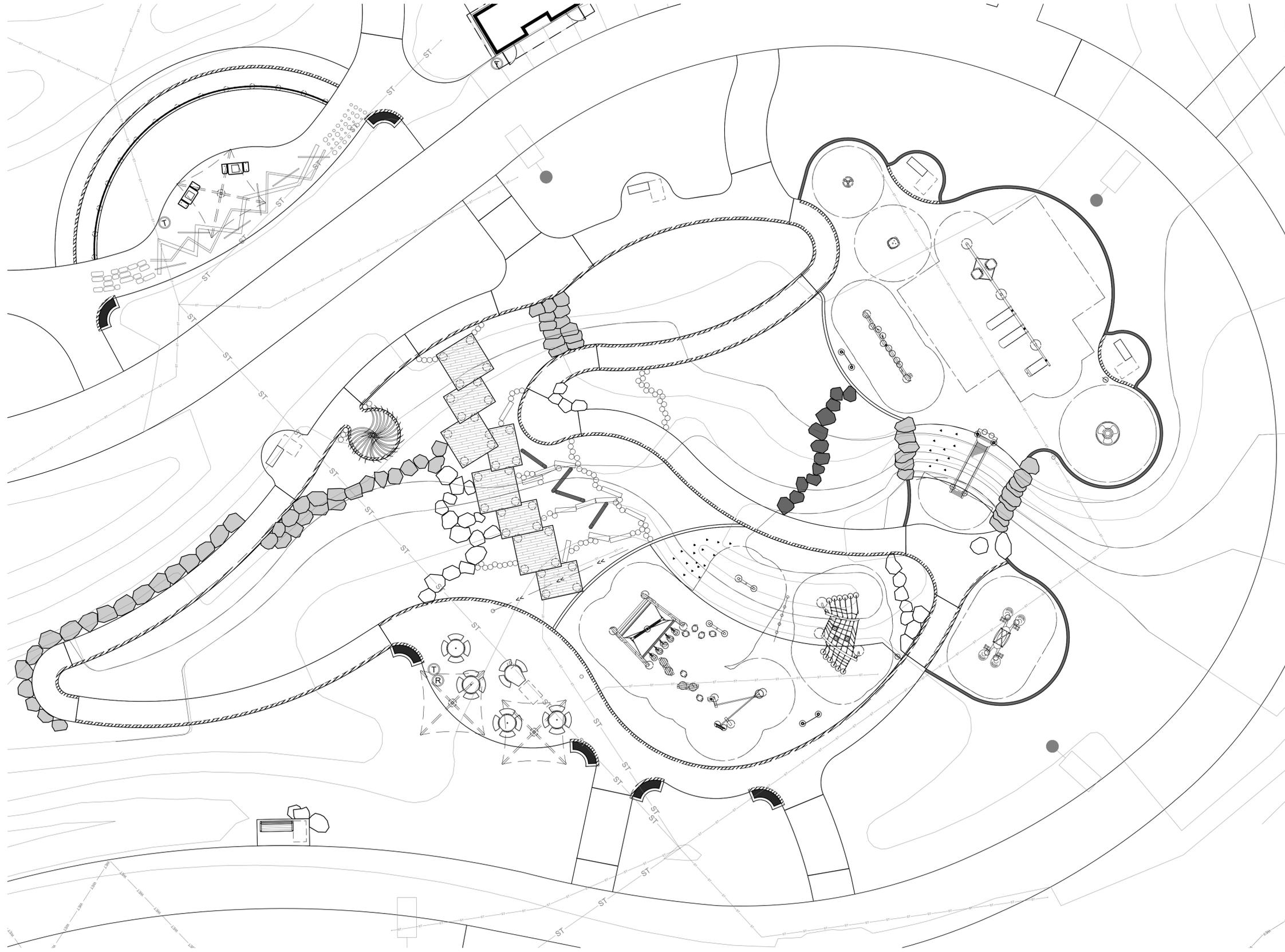
LEGEND

-  PROPERTY LINE
-  HANDRAIL
-  WOODEN PLATFORM
-  CONCRETE LOG
-  WOODEN LOG AND STEPPERS
-  BENCH SWINGS
-  TRASH RECEPTACLE
-  RECYCLING RECEPTACLE
-  PICNIC TABLE, TYPE 1
-  PICNIC TABLE, TYPE 2
-  PICNIC TABLE, TYPE 3
-  BENCH, TYPE 1
-  BENCH, TYPE 2
-  BENCH, TYPE 3
-  GAME TABLE
-  BIKE RACK
-  HOT COAL RECEPTACLE
-  ADA CLEARANCE

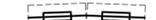
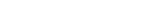
1 SITE FURNISHINGS PLAN ENLARGEMENT
1"= 20'-0"



CONTRACT:	9509	DATE	DESCRIPTION
FILE NO:	DN		
DRAWN BY:	BK		
CHECKED BY:			
SCALE:			
 CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION			
 THE SIGMA GROUP Single Source. Sound Solutions.			
 site			
SITE FURNISHINGS PLAN ENLARGEMENT 1700 N 116TH STREET WAUWATOSA, WI 53226			
L104A.1			



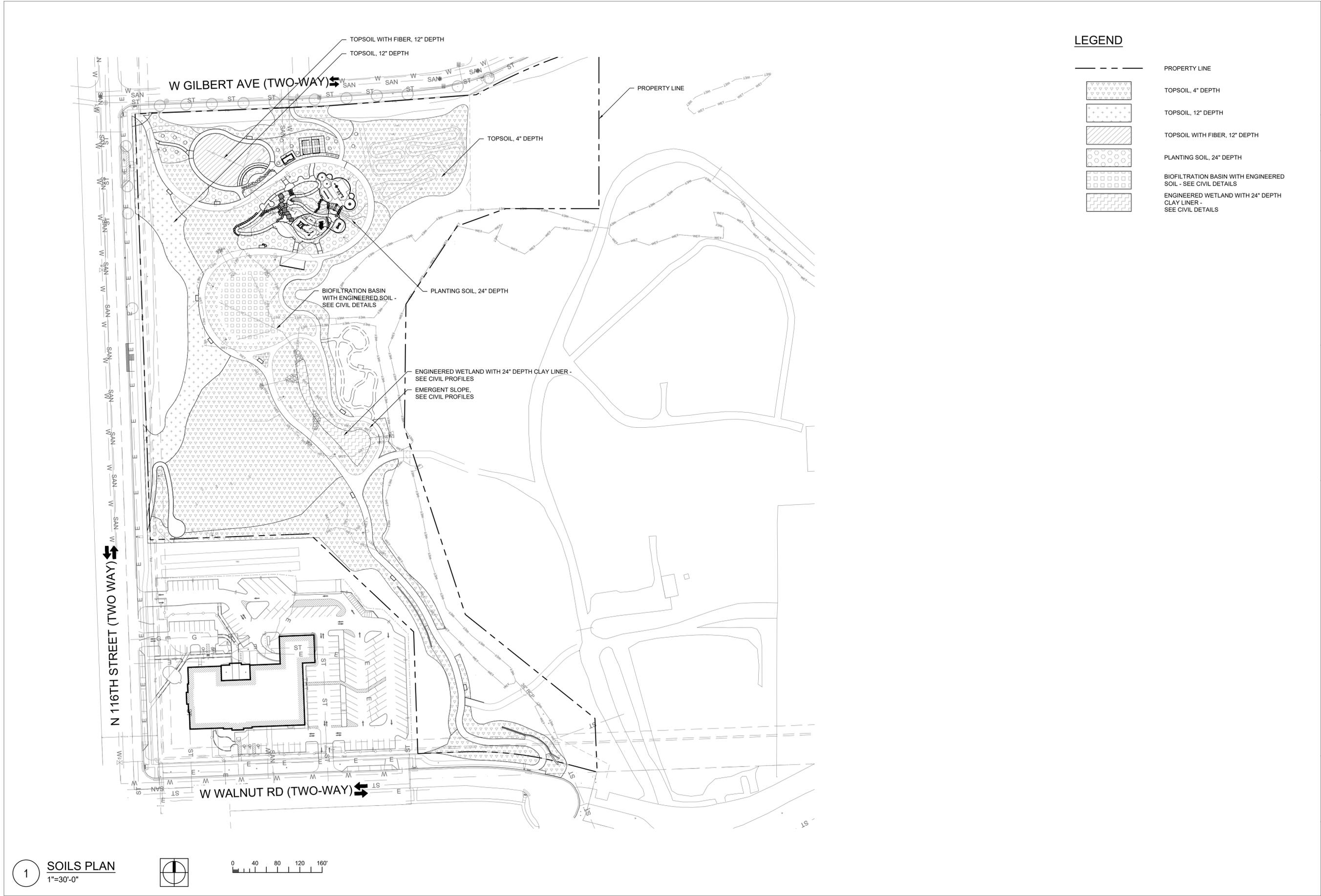
LEGEND

-  PROPERTY LINE
-  HANDRAIL
-  WOODEN PLATFORM
-  CONCRETE LOG
-  WOODEN LOG AND STEPPERS
-  BENCH SWINGS
-  TRASH RECEPTACLE
-  RECYCLING RECEPTACLE
-  PICNIC TABLE, TYPE 1
-  PICNIC TABLE, TYPE 2
-  PICNIC TABLE, TYPE 3
-  BENCH, TYPE 1
-  BENCH, TYPE 2
-  BENCH, TYPE 3
-  GAME TABLE
-  BIKE RACK
-  HOT COAL RECEPTACLE
-  ADA CLEARANCE

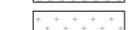
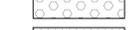
1 PLAYGROUND EQUIPMENT ENLARGEMENT PLAN (FOR REFERENCE ONLY)
1"=10'-0"



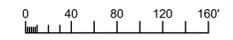
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FILE NO:	DN	DATE
DRAWN BY:	BK	
CHECKED BY:		
SCALE:		
L104A.2		
PLAYGROUND EQUIPMENT ENLARGEMENT PLAN (FOR REFERENCE ONLY)		
1700 N 116TH STREET WAUWATOSA, WI 53226		
 		 CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION



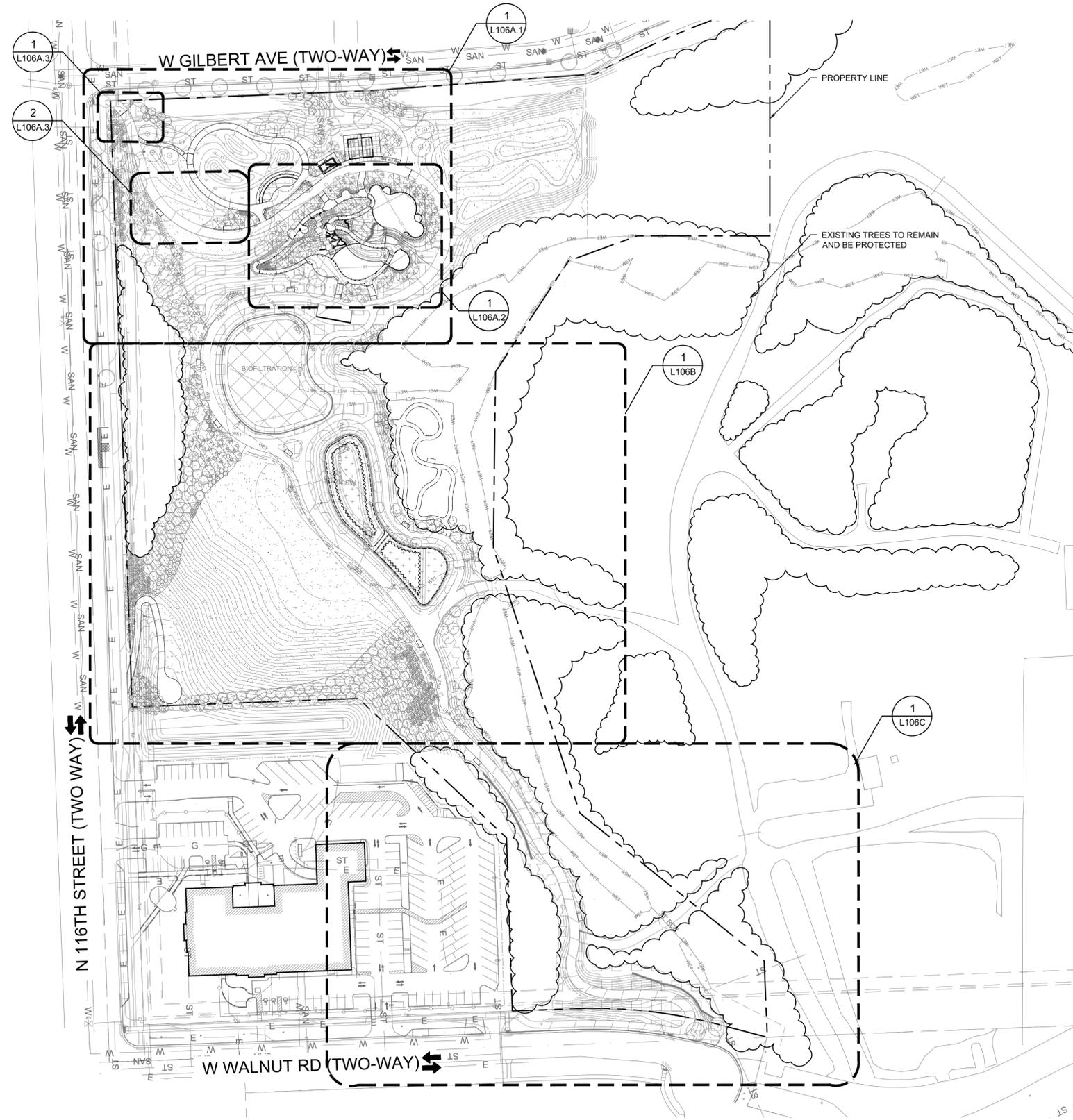
LEGEND

-  PROPERTY LINE
-  TOPSOIL, 4" DEPTH
-  TOPSOIL, 12" DEPTH
-  TOPSOIL WITH FIBER, 12" DEPTH
-  PLANTING SOIL, 24" DEPTH
-  BIOFILTRATION BASIN WITH ENGINEERED SOIL - SEE CIVIL DETAILS
-  ENGINEERED WETLAND WITH 24" DEPTH CLAY LINER - SEE CIVIL DETAILS

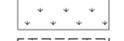
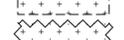
1 SOILS PLAN
1"=30'-0"



CONTRACT:	9509	DESCRIPTION
FILE NO:	DN	
DRAWN BY:	BK	
CHECKED BY:		
SCALE:		
L105		
SOILS PLAN		
1700 N 116TH STREET WAUWATOSA, WI 53226		
 		 CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION



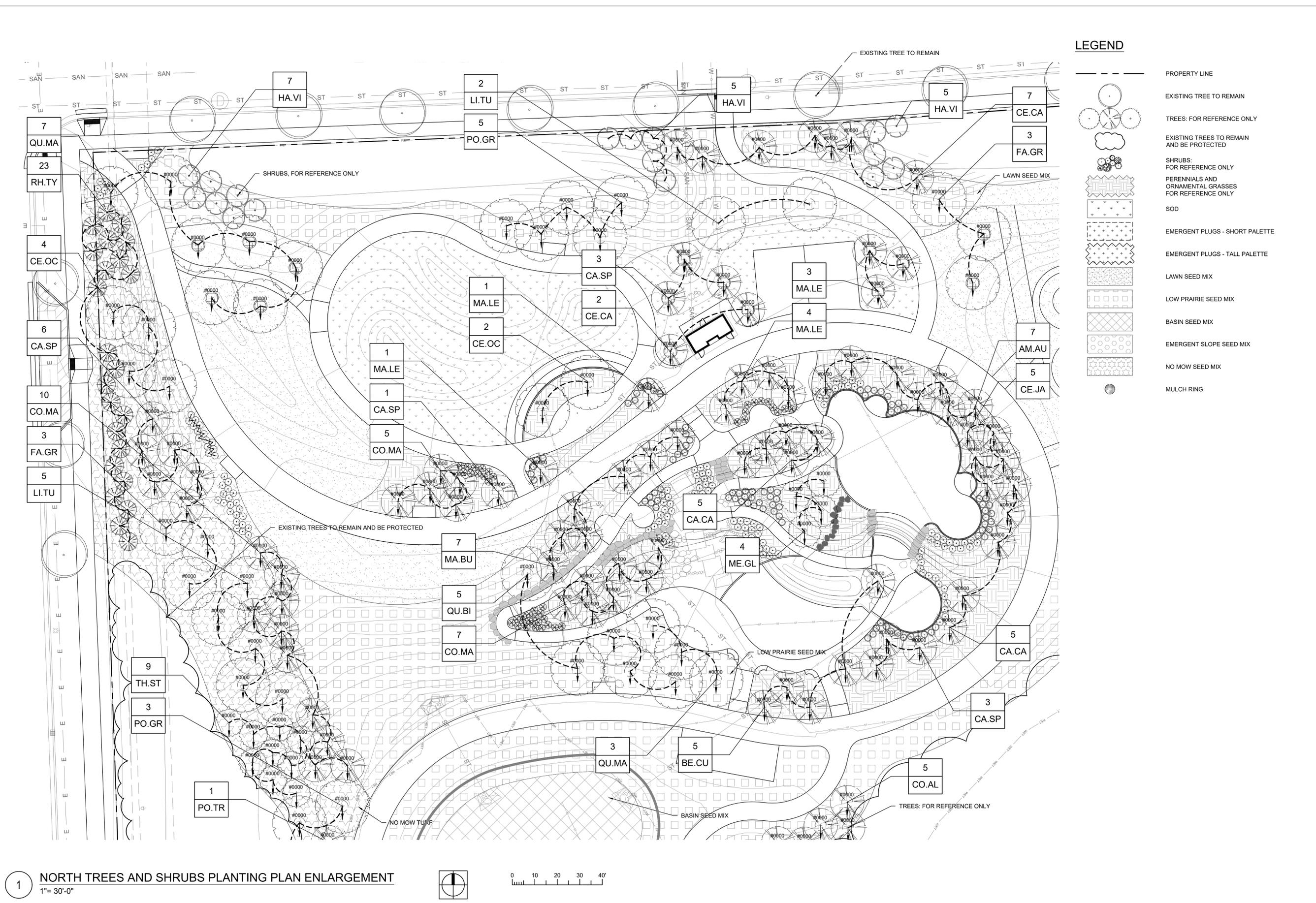
LEGEND

-  PROPERTY LINE
-  EXISTING TREE TO REMAIN
-  TREES: FOR REFERENCE ONLY
-  EXISTING TREES TO REMAIN AND BE PROTECTED
-  SHRUBS: FOR REFERENCE ONLY
-  PERENNIALS AND ORNAMENTAL GRASSES FOR REFERENCE ONLY
-  SOD
-  EMERGENT PLUGS - SHORT PALETTE
-  EMERGENT PLUGS - TALL PALETTE
-  LAWN SEED MIX
-  LOW PRAIRIE SEED MIX
-  BASIN SEED MIX
-  EMERGENT SLOPE SEED MIX
-  NO MOW SEED MIX
-  MULCH RING

1 PLANTING PLAN
1"=80'-0"



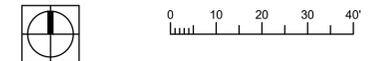
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9509	DN		
DRAWN BY:	DN		
CHECKED BY:	BK		
SCALE:			
PLANTING PLAN			
1700 N 116TH STREET WAUWATOSA, WI 53226			
L106			
THE SIGMA GROUP <small>Single Source. Sound Solutions.</small>		site	
CITY OF WAUWATOSA		ENGINEERING SERVICES DIVISION	



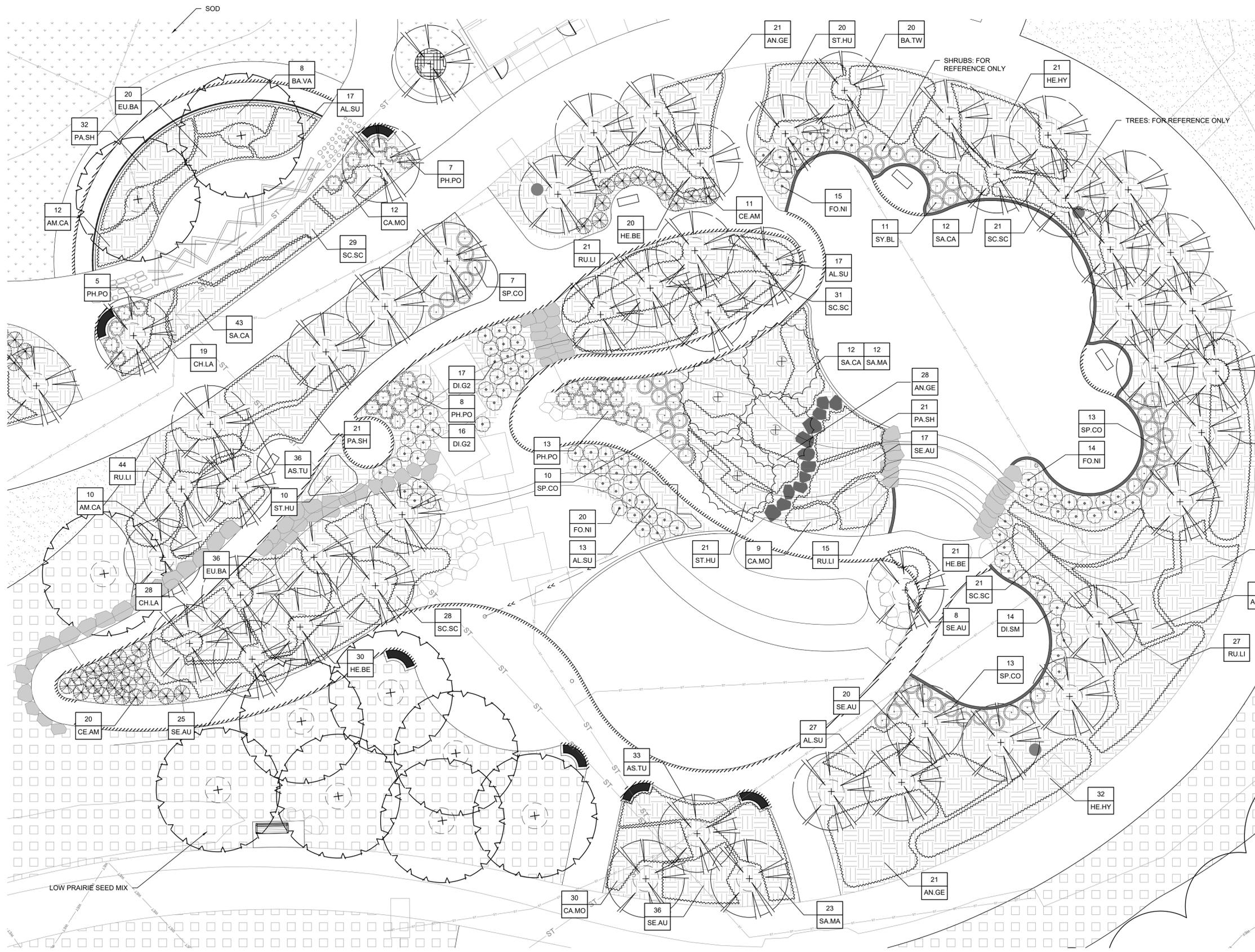
LEGEND

- PROPERTY LINE
- EXISTING TREE TO REMAIN
- TREES: FOR REFERENCE ONLY
- EXISTING TREES TO REMAIN AND BE PROTECTED
- SHRUBS: FOR REFERENCE ONLY
- PERENNIALS AND ORNAMENTAL GRASSES FOR REFERENCE ONLY
- SOD
- EMERGENT PLUGS - SHORT PALETTE
- EMERGENT PLUGS - TALL PALETTE
- LAWN SEED MIX
- LOW PRAIRIE SEED MIX
- BASIN SEED MIX
- EMERGENT SLOPE SEED MIX
- NO MOW SEED MIX
- MULCH RING

1 NORTH TREES AND SHRUBS PLANTING PLAN ENLARGEMENT
1"= 30'-0"



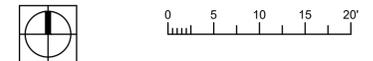
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FILE NO:	DN	
DRAWN BY:	BK	
CHECKED BY:		
SCALE:		
L106A.1		
NORTH TREES AND SHRUBS PLANTING PLAN ENLARGEMENT		
1700 N 116TH STREET WAUWATOSA, WI 53226		
THE SIGMA GROUP 		CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION



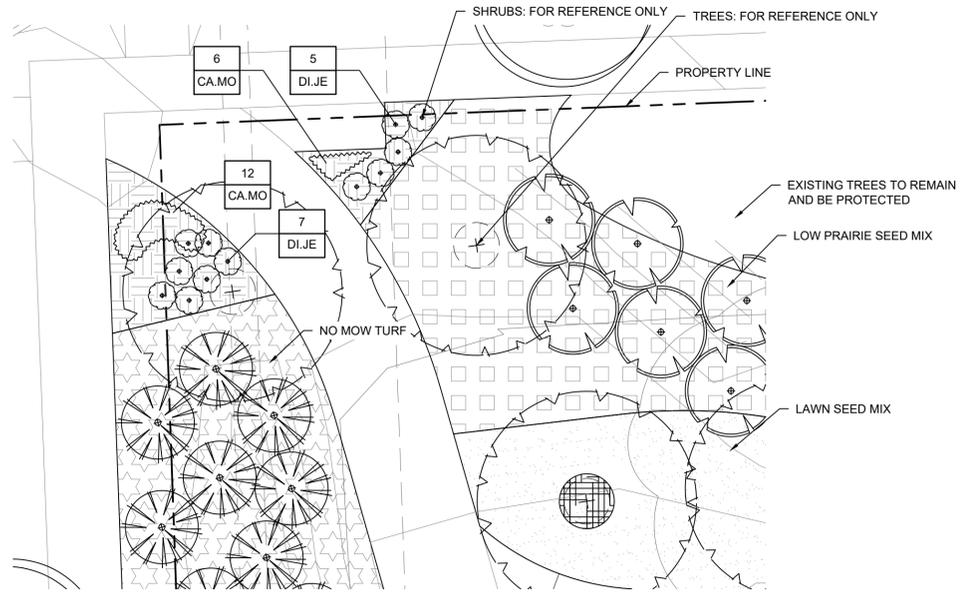
LEGEND

- PROPERTY LINE
- EXISTING TREE TO REMAIN
- TREES: FOR REFERENCE ONLY
- EXISTING TREES TO REMAIN AND BE PROTECTED
- SHRUBS: FOR REFERENCE ONLY
- PERENNIALS AND ORNAMENTAL GRASSES FOR REFERENCE ONLY
- SOD
- EMERGENT PLUGS - SHORT PALET
- EMERGENT PLUGS - TALL PALET
- LAWN SEED MIX
- LOW PRAIRIE SEED MIX
- BASIN SEED MIX
- EMERGENT SLOPE SEED MIX
- NO MOW SEED MIX
- MULCH RING

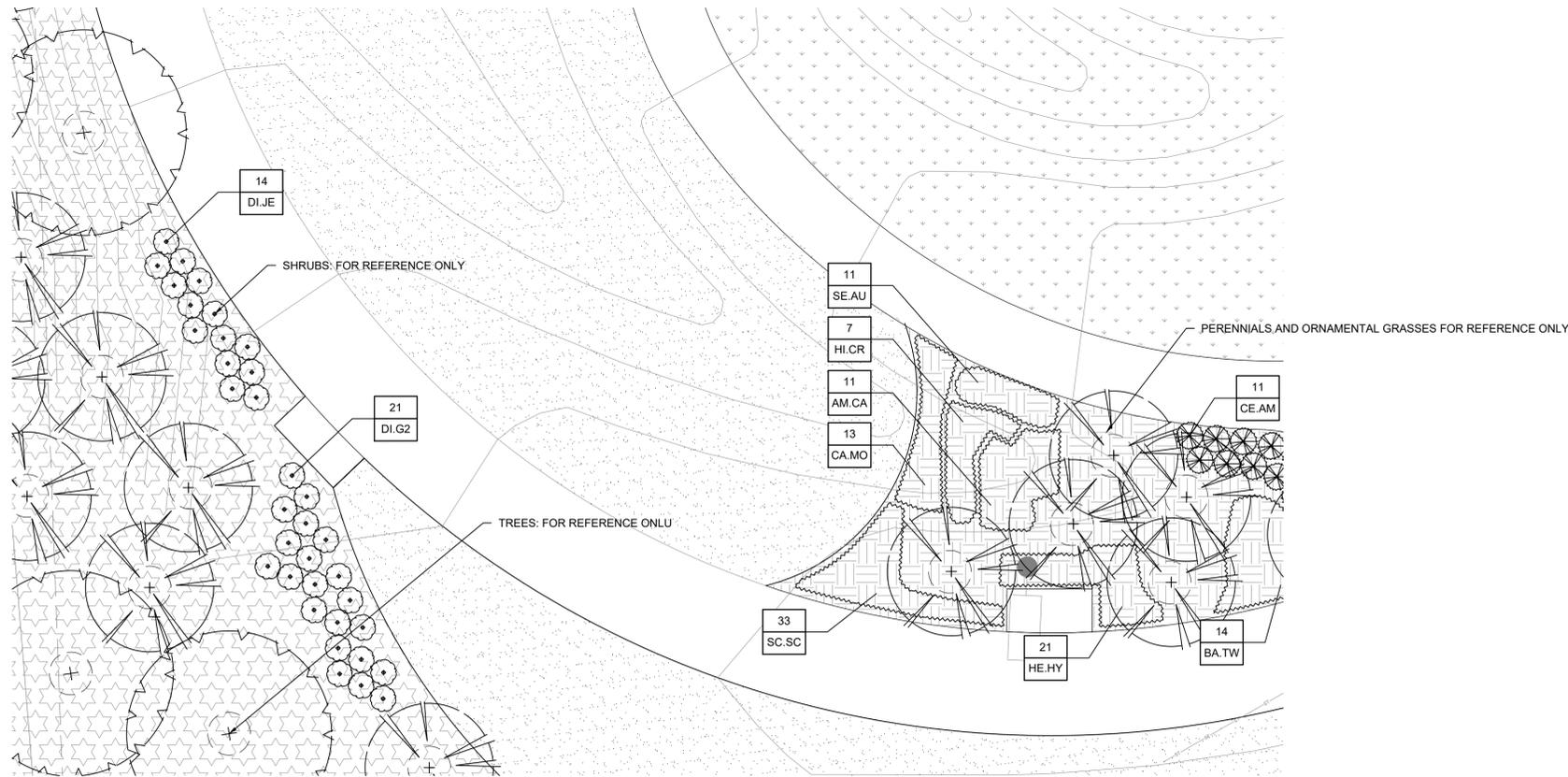
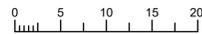
1 PLAYGROUND SHRUBS AND PERENNIALS PLANTING PLAN ENLARGEMENT
1"= 10'-0"



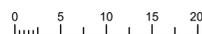
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				DATE
L106A.2			 	



1 PLANTING PLAN ENLARGEMENT
1"=10'-0"



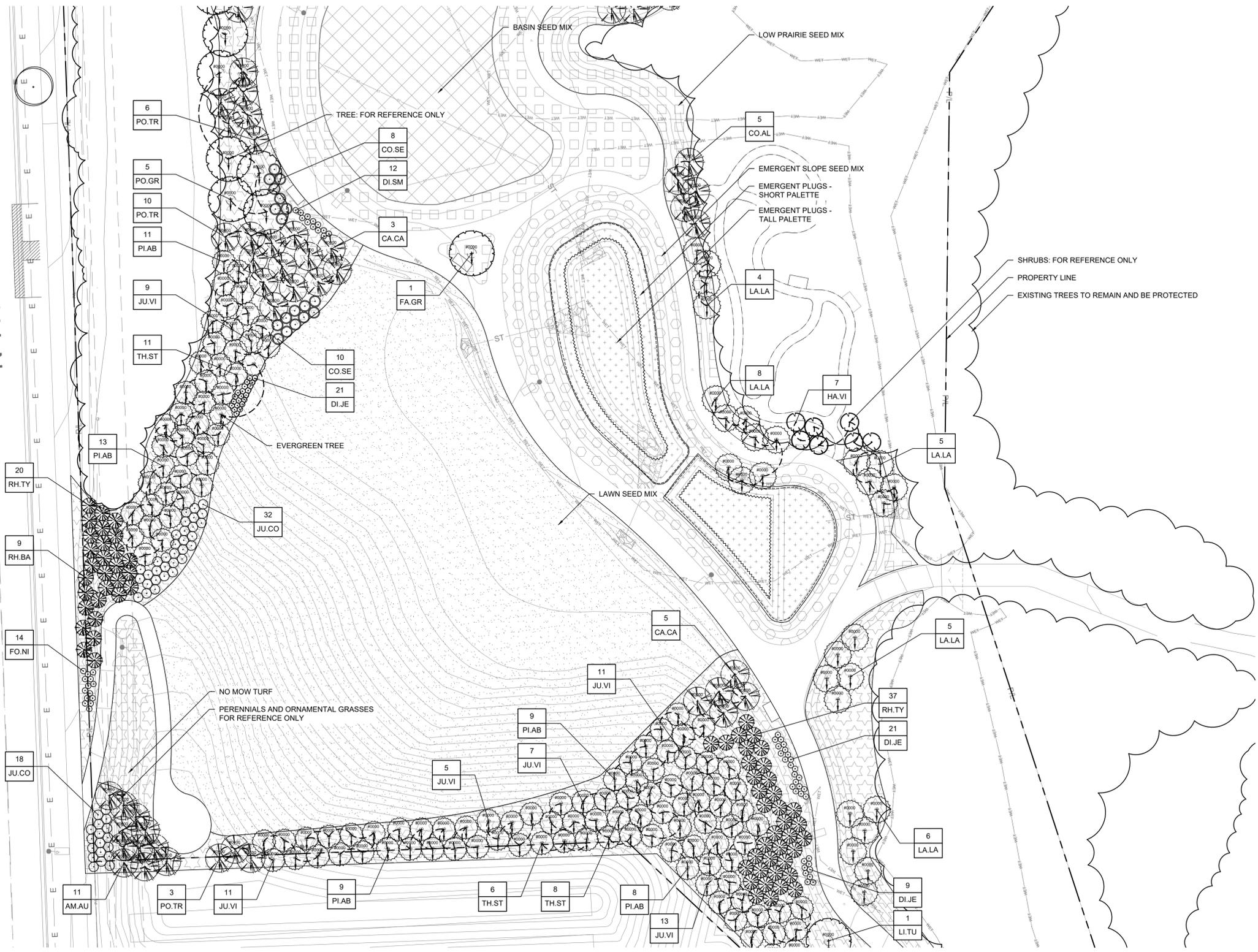
2 PLANTING PLAN ENLARGEMENT
1"=10'-0"



LEGEND

- PROPERTY LINE
- EXISTING TREE TO REMAIN
- TREES: FOR REFERENCE ONLY
- EXISTING TREES TO REMAIN AND BE PROTECTED
- SHRUBS: FOR REFERENCE ONLY
- PERENNIALS AND ORNAMENTAL GRASSES FOR REFERENCE ONLY
- SOD
- EMERGENT PLUGS - SHORT PALETTE
- EMERGENT PLUGS - TALL PALETTE
- LAWN SEED MIX
- LOW PRAIRIE SEED MIX
- BASIN SEED MIX
- EMERGENT SLOPE SEED MIX
- NO MOW SEED MIX
- MULCH RING

CONTRACT:	9509	DESCRIPTION
FILE NO:	DN	DATE
DRAWN BY:	BK	
CHECKED BY:		
SCALE:		
CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION		
PLANTING PLAN ENLARGEMENT 1700 N 116TH STREET WAUWATOSA, WI 53226		
L106A.3		



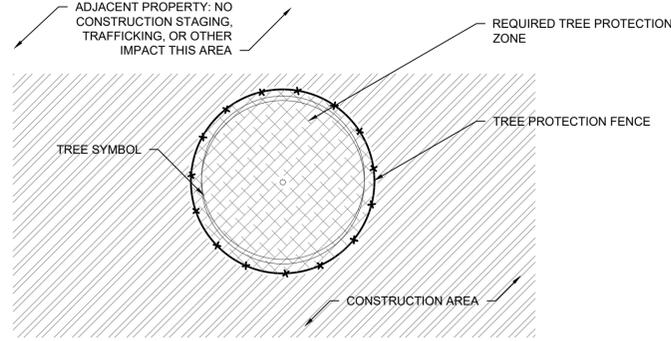
LEGEND

- PROPERTY LINE
- EXISTING TREE TO REMAIN
- TREES: FOR REFERENCE ONLY
- EXISTING TREES TO REMAIN AND BE PROTECTED
- SHRUBS: FOR REFERENCE ONLY
- PERENNIALS AND ORNAMENTAL GRASSES FOR REFERENCE ONLY
- SOD
- EMERGENT PLUGS - SHORT PALETTE
- EMERGENT PLUGS - TALL PALETTE
- LAWN SEED MIX
- LOW PRAIRIE SEED MIX
- BASIN SEED MIX
- EMERGENT SLOPE SEED MIX
- NO MOW SEED MIX
- MULCH RING

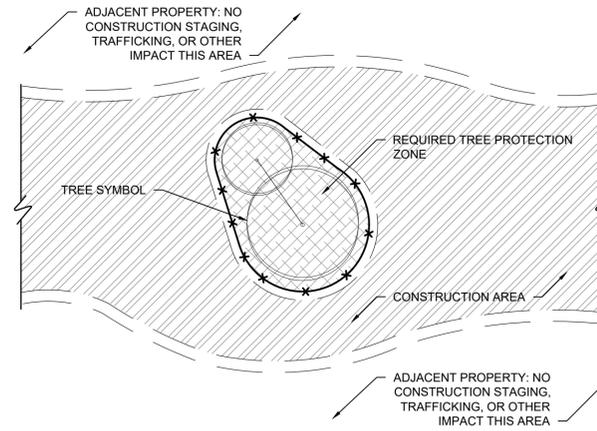
1 PLANTING PLAN ENLARGEMENT
1"= 30'-0"



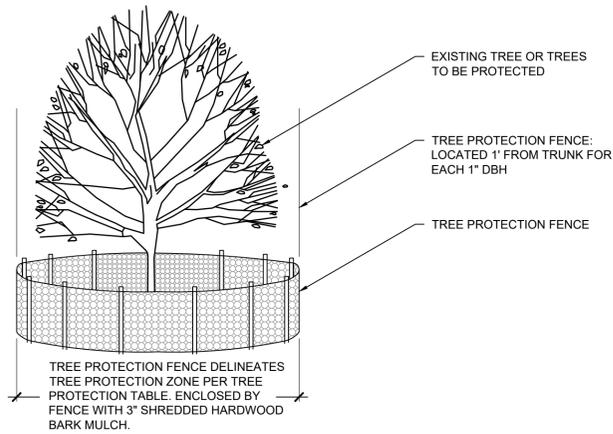
CONTRACT:	9509	DESCRIPTION
FILE NO:	DN	
DRAWN BY:	BK	
CHECKED BY:		
SCALE:		
L106B		
PLANTING PLAN ENLARGEMENT		
1700 N 116TH STREET		
WAUWATOSA, WI 53226		



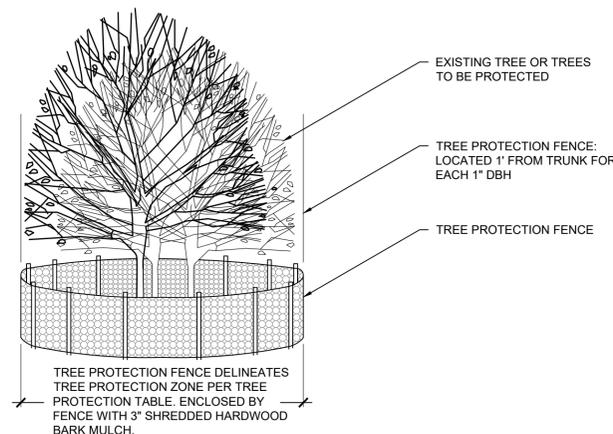
1 TREE PROTECTION ENTIRELY
WITHIN CONSTRUCTION AREA PLAN
NOT TO SCALE



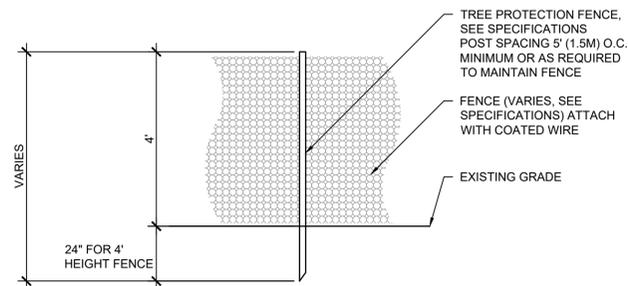
2 GROUP TREE PROTECTION
NOT TO SCALE



3 TREE PROTECTION ENTIRELY
WITHIN CONSTRUCTION AREA ELEVATION
NOT TO SCALE



4 GROUP TREE PROTECTION
ENTIRELY WITHIN CONSTRUCTION AREA ELEVATION
NOT TO SCALE

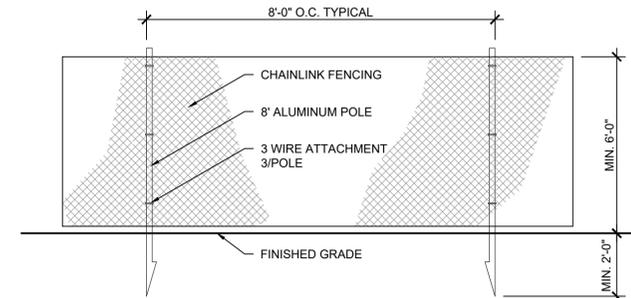


5 TREE PROTECTION FENCE
NOT TO SCALE

TREE PROTECTION	FLAG TAPE COLOR	RADIUS OF TREE PROTECTION FENCE FROM TRUNK	MULCH TREE PROTECTION ZONE
ADJACENT PROPERTY	NONE	NONE, TREE PROTECTED BY TREE PROTECTION FENCE AT PROJECT LIMITS	NO
TREE WITH TREE PROTECTION FENCE	GREEN	1' (30 cm) RADIUS FOR EACH 1" (2.54 cm) DBH*, OR AS APPROVED BY AOR OR PROJECT ARBORIST	YES, 3" DEPTH OF HARDWOOD BARK MULCH, NOT IN CONTACT WITH THE TRUNK
TREE WITH TREE PROTECTION FENCE, ROOTPRUNED	GREEN & YELLOW	1' (30 cm) RADIUS FOR EACH 1" (2.54 cm) DBH*, OR AS APPROVED BY AOR OR PROJECT ARBORIST	YES, 3" DEPTH OF HARDWOOD BARK MULCH, NOT IN CONTACT WITH THE TRUNK
TREE TO BE RELOCATED	BLUE	1' (30 cm) RADIUS FOR EACH 1" (2.54 cm) DBH*, OR AS APPROVED BY AOR OR PROJECT ARBORIST	YES, 3" DEPTH OF HARDWOOD BARK MULCH, NOT IN CONTACT WITH THE TRUNK
TREE TO BE REMOVED	RED	NONE, TREES MUST BE REMOVED PRIOR TO START OF CONSTRUCTION	NO

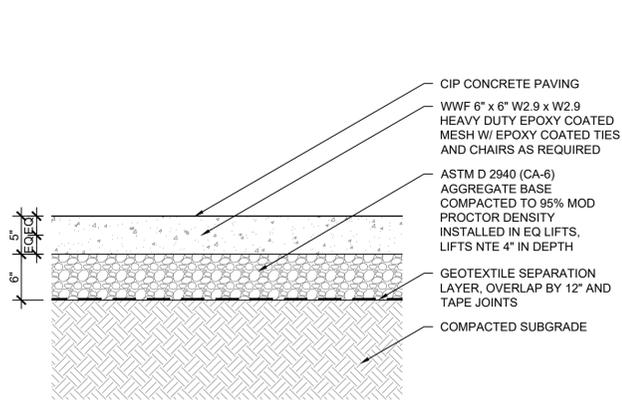
*DBH - DIAMETER AT BREAST HEIGHT MEASURED AT 4.5' FROM BASE OF TREE.

6 TREE PROTECTION TABLE AND NOTES
NOT TO SCALE

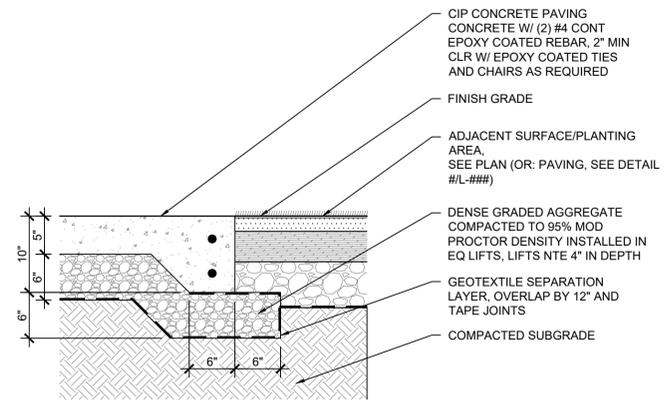


7 6'H CONSTRUCTION FENCE ELEVATION
NOT TO SCALE

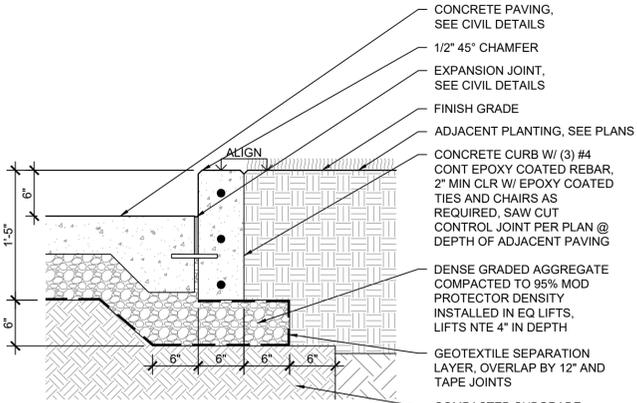
CONTRACT:	9509	PRESERVATION AND DEMOLITION DETAILS 1700 N 116TH STREET WAUWATOSA, WI 53226 L501
FILE NO.:	DN	
DRAWN BY:	BK	
CHECKED BY:	BK	
SCALE:		
DATE		CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION
DESCRIPTION		



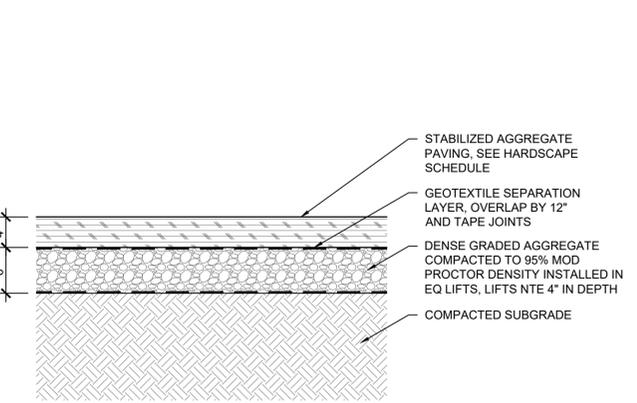
1 CONCRETE PAVEMENT SECTION
1" = 1'-0"



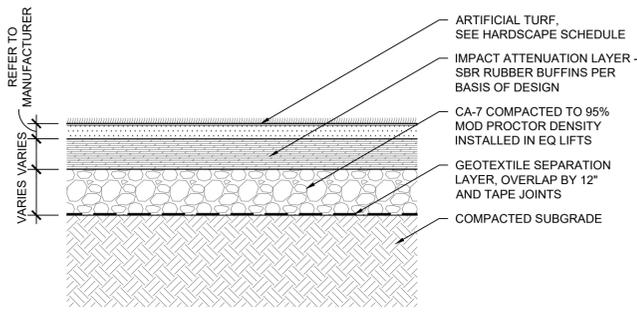
2 CONCRETE PAVEMENT THICKENED EDGE SECTION
1" = 1'-0"



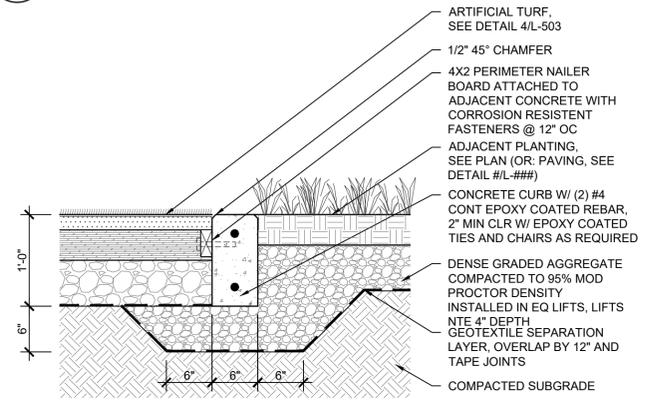
3 CONCRETE PAVEMENT W/ RAISED CONCRETE CURB SECTION
1" = 1'-0"



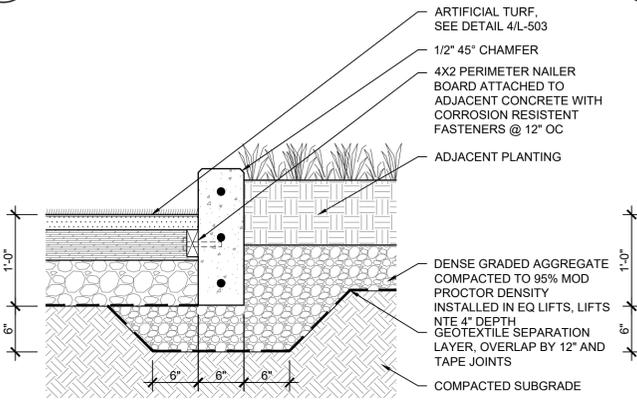
4 STABILIZED AGGREGATE PAVING SECTION
1" = 1'-0"



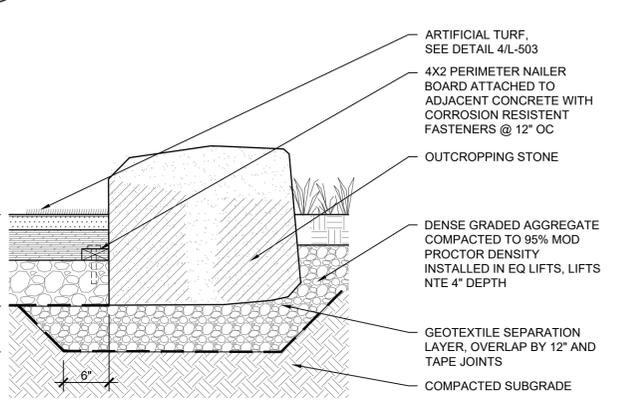
5 PLAY TURF SURFACING SECTION
1" = 1'-0"



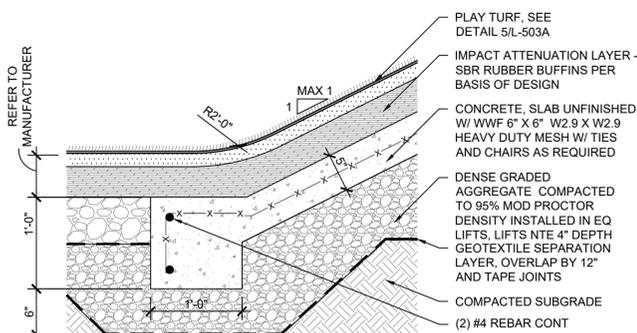
6 PLAY TURF SURFACING W/ FLUSH CONCRETE CURB SECTION
1" = 1'-0"



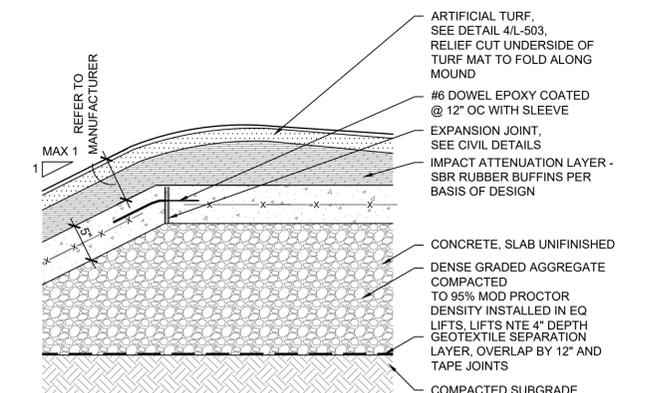
7 PLAY TURF SURFACING W/ RAISED CONCRETE CURB SECTION
1" = 1'-0"



8 PLAY TURF SURFACING W/ OUTCROPPING SECTION
1" = 1'-0"



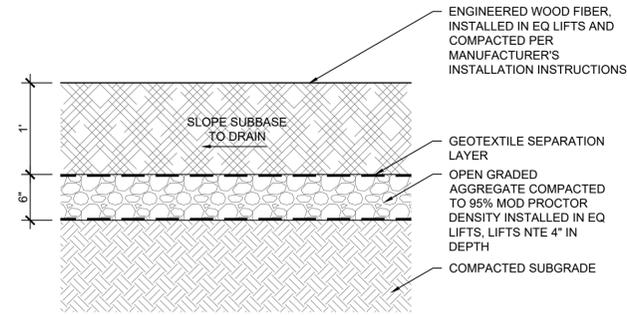
8 PLAY TURF SURFACING AT BOTTOM OF BERM W/ THICKENED CONCRETE EDGE SECTION
1" = 1'-0"



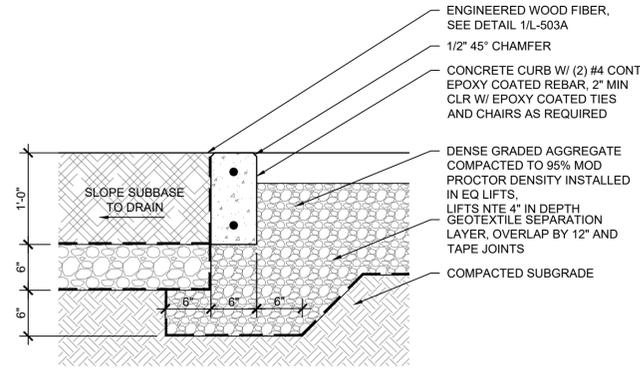
9 PLAY TURF SURFACING AT TOP OF BERM SECTION
1" = 1'-0"

CONTRACT:	9509	DESCRIPTION
FILE NO:	DN	DATE
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CHECKED BY:		
SCALE:		
 CITY OF WAUWATOSA ENGINEERING DIVISION		
 SIGMA GROUP <small>Single Source. Sound Solutions.</small> site		
HARDSCAPE DETAILS 1700 N 116TH STREET WAUWATOSA, WI 53226		
L503		

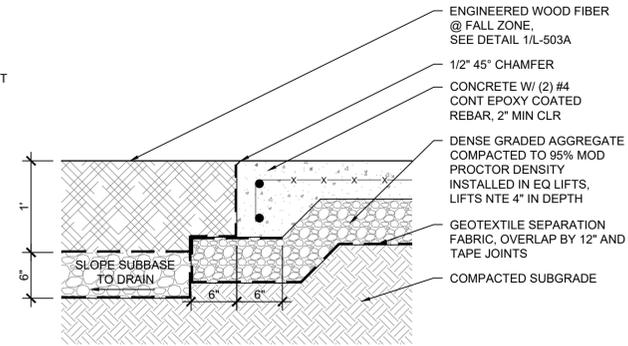
NOTE:
1. INSTALL ENGINEERED WOOD FIBER PER MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS.



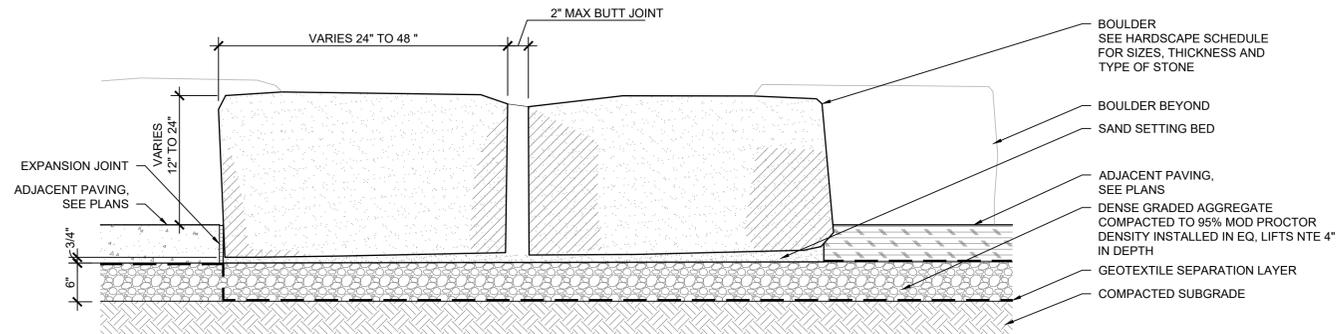
1 ENGINEERED WOOD FIBER SECTION
1" = 1'-0"



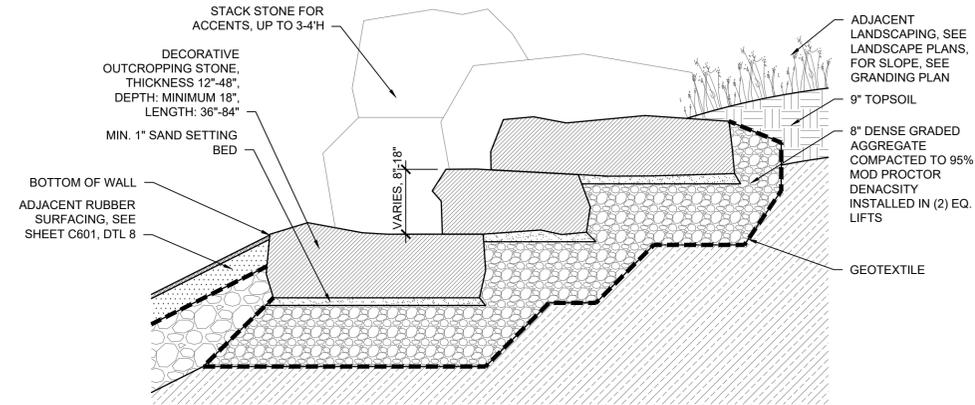
2 ENGINEERED WOOD FIBER W/ FLUSH CURB SECTION
1" = 1'-0"



3 ENGINEERED WOOD FIBER AT FALL ZONE TO THICKENED CONCRETE EDGE SECTION
1" = 1'-0"



4 BOULDER SECTION
1" = 1'-0"



5 EMBANKMENT BOULDER DETAIL
1" = 1'-0"

DESCRIPTION

DATE

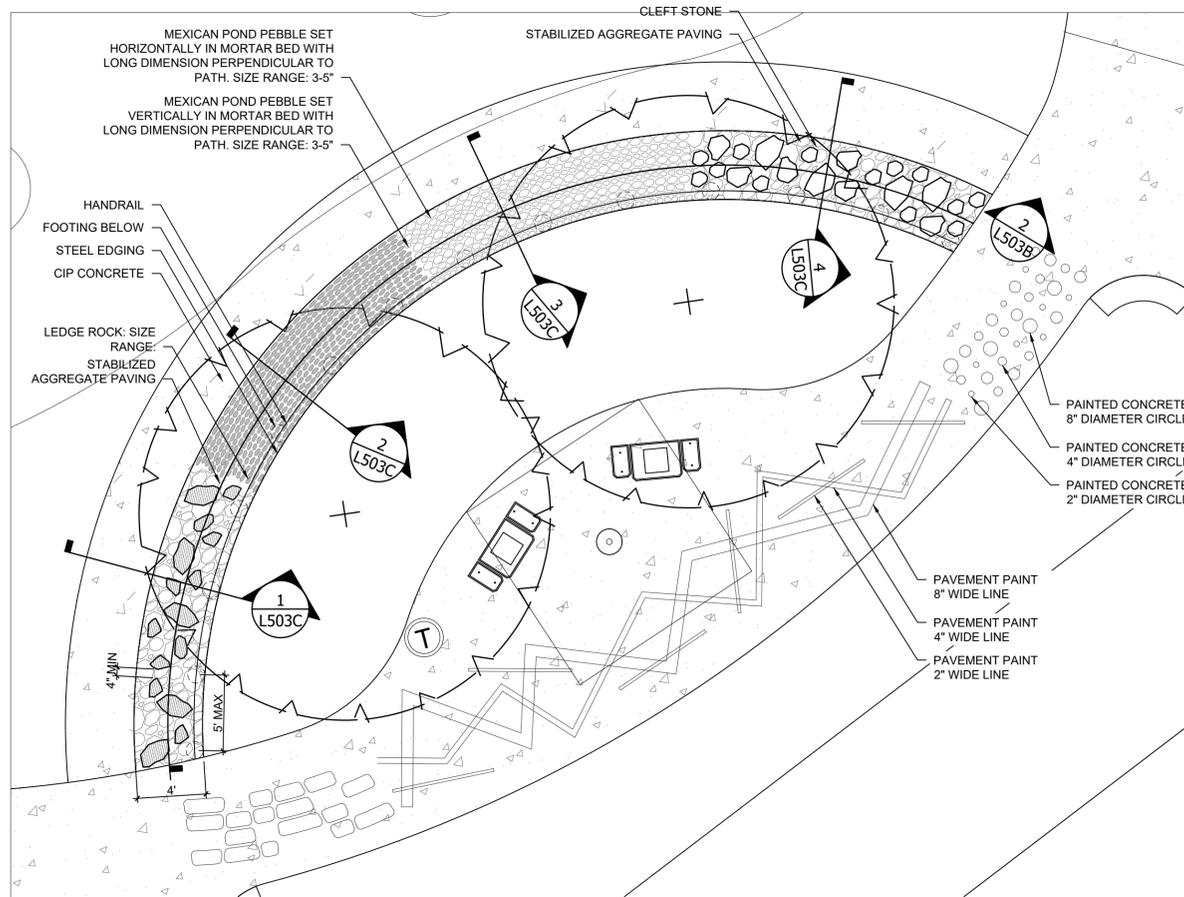


HARDSCAPE DETAILS

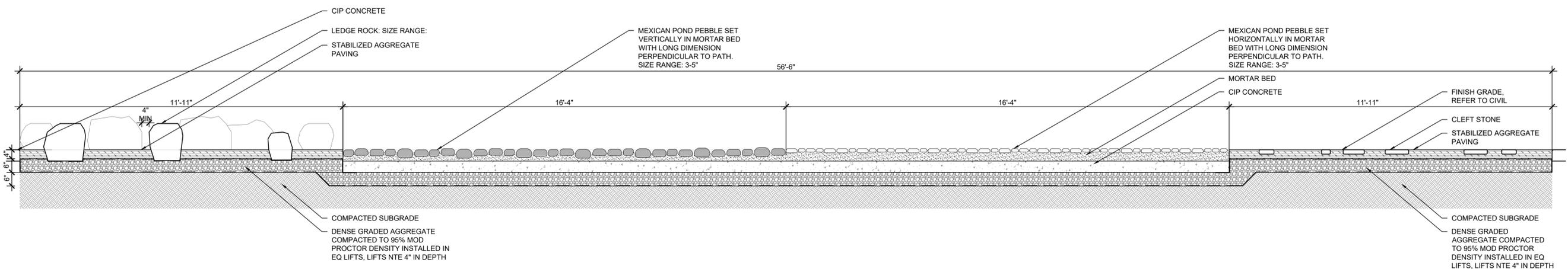
1700 N 116TH STREET
WAUWATOSA, WI 53226

CONTRACT: 9509
FILE NO: DN
DRAWN BY: BK
CHECKED BY: BK
SCALE:

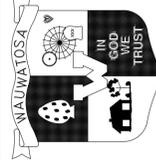
L503A

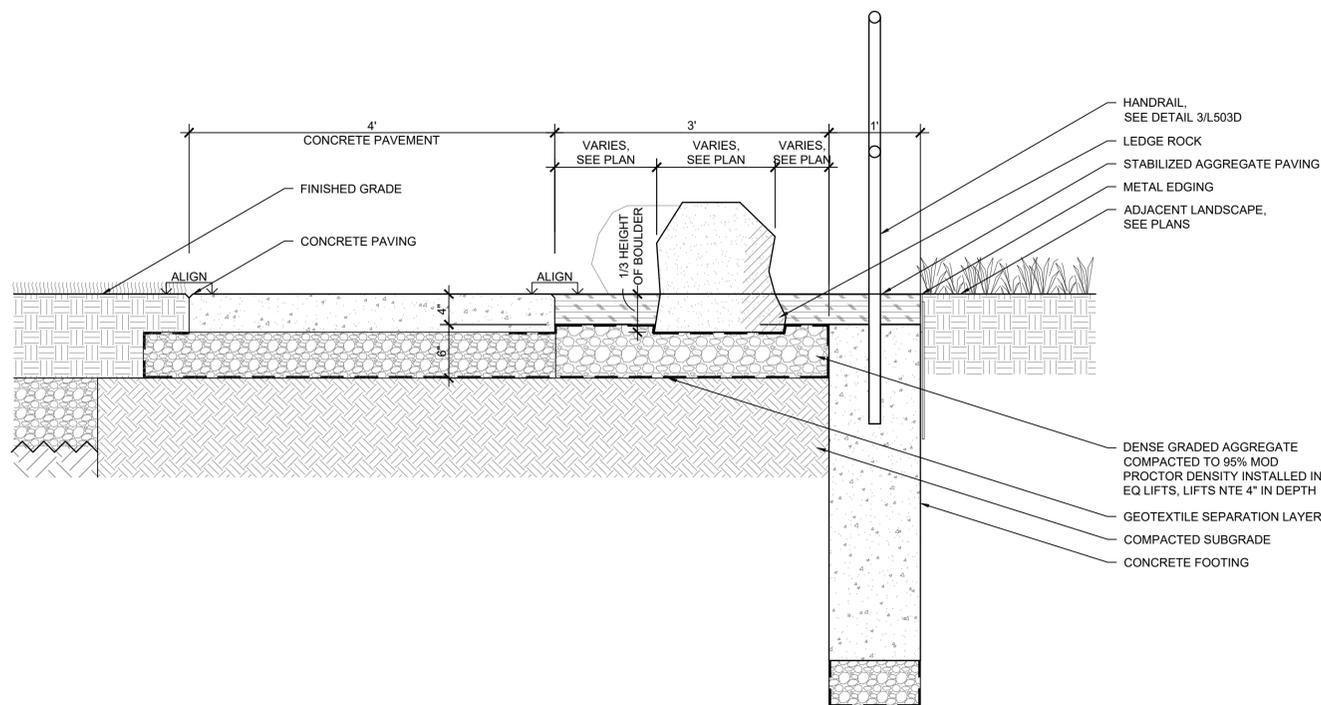


1 SENSORY WALKING PATH PLAN ENLARGEMENT
3/16" = 1'-0"

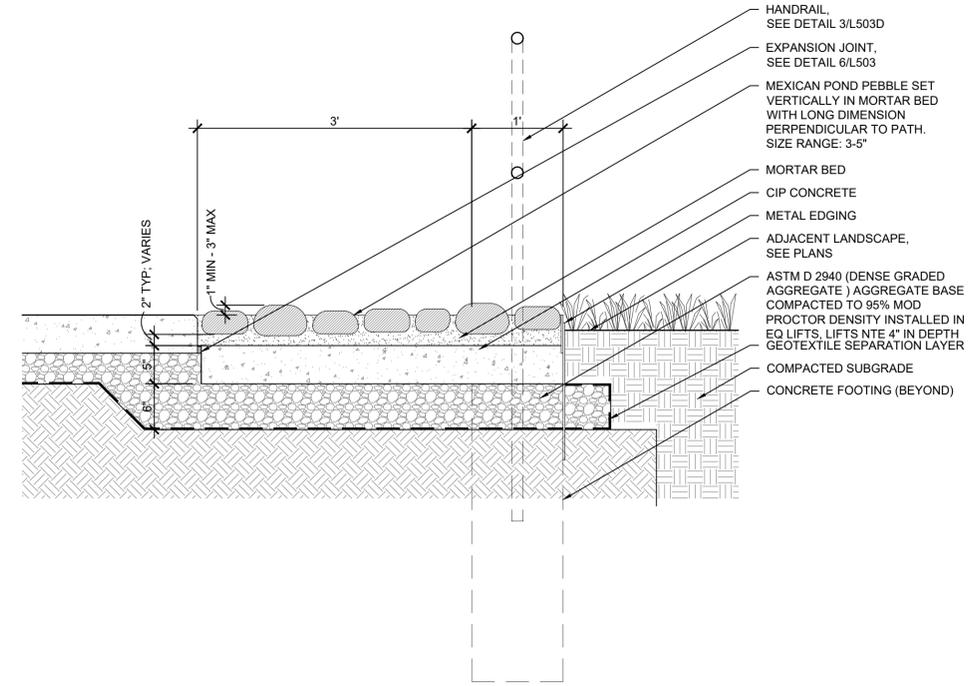


2 SENSORY WALKING PATH SECTION
1/2" = 1'-0"

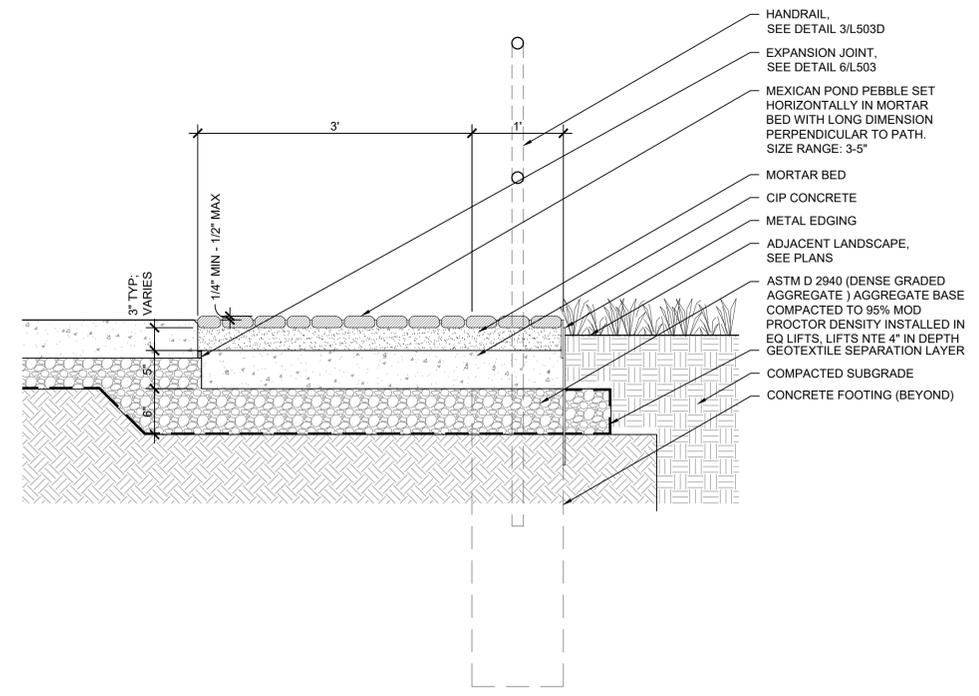
CONTRACT:	DESCRIPTION
9509	
FILE NO: DN	
DRAWN BY: BK	
CHECKED BY:	
SCALE:	
CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION	
	
	
HARDSCAPE DETAILS	
1700 N 116TH STREET WAUWATOSA, WI 53226	
L503B	



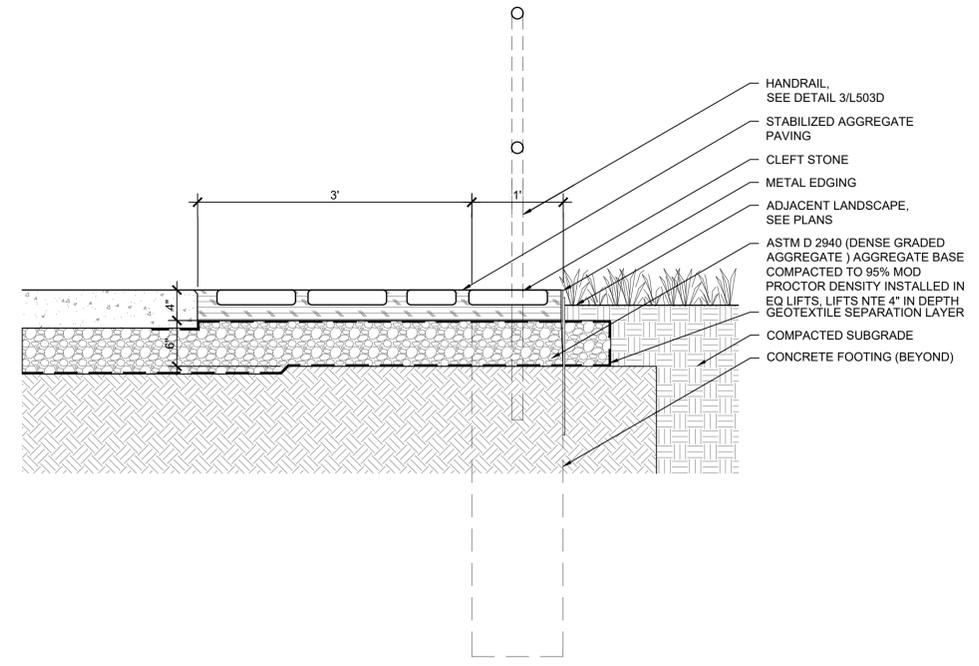
1 LEDGE ROCK AT SENSORY WALKING PATH SECTION
1" = 1'-0"



2 VERTICAL PEBBLE PAVING AT SENSORY WALKING PATH SECTION
1" = 1'-0"



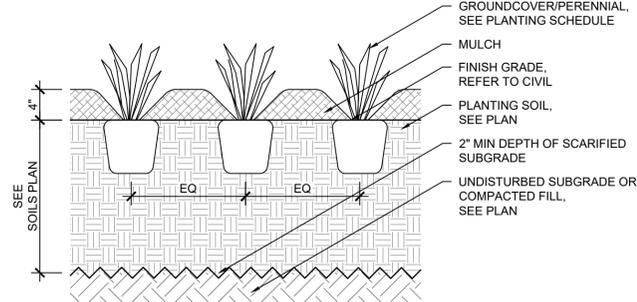
3 HORIZONTAL PEBBLE PAVING AT SENSORY WALKING PATH SECTION
1" = 1'-0"



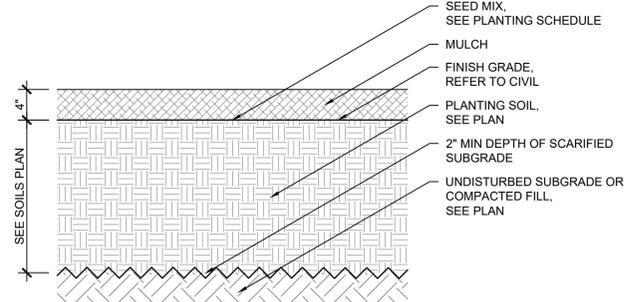
4 CLEFT STONE PAVING AT SENSORY WALKING PATH SECTION
1" = 1'-0"

CONTRACT:	DESCRIPTION
9509	
FILE NO. DN	
DRAWN BY: BK	
CHECKED BY:	
SCALE:	
CITY OF WAUWATOSA	
ENGINEERING SERVICES DIVISION	
THE SIGMA GROUP	
site	
HARDSCAPE DETAILS	
1700 N 116TH STREET	
WAUWATOSA, WI 53226	
L503C	

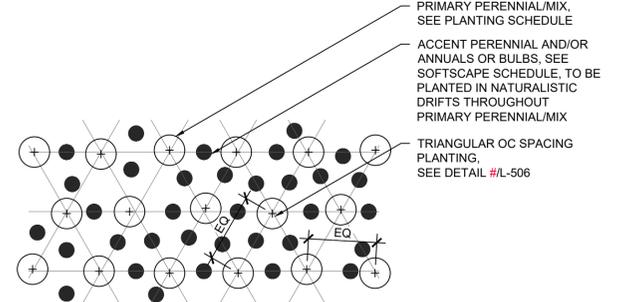
NOTES:
 1. RAISE PLANTING BED FOR ADEQUATE DRAINAGE. PROPOSED DRAINAGE, REFER TO CIVIL
 2. PLANT SHALL BE HANDLED BY CONTAINER, NOT BY STEMS OR BRANCHES



1 GROUNDCOVER/PERENNIAL SECTION
 1" = 1'-0"

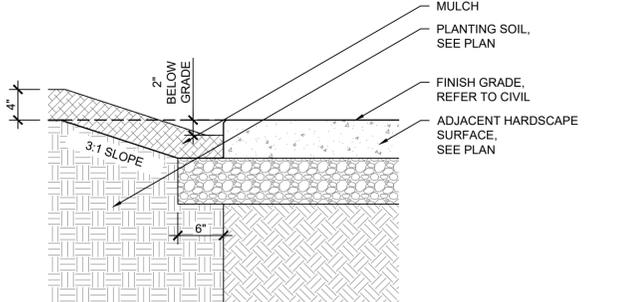


2 SEED SECTION
 1" = 1'-0"

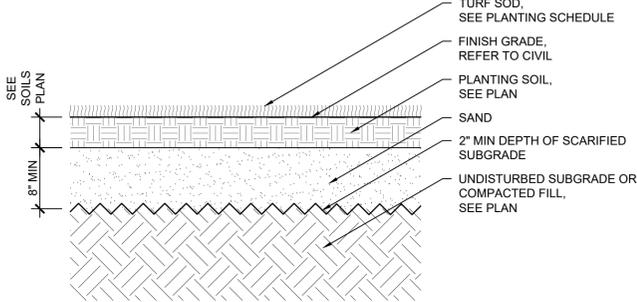


3 GROUNDCOVER INTERPLANTING PLAN
 NTS

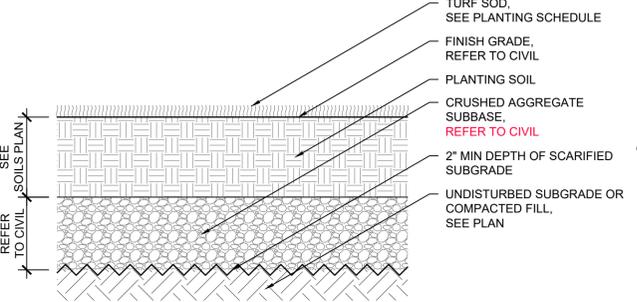
NOTES:
 1. RAISE PLANTING BED FOR ADEQUATE DRAINAGE. PROPOSED DRAINAGE, REFER TO CIVIL



4 PLANTING MATERIAL EDGE TO HARDSCAPE SURFACE SECTION
 1" = 1'-0"

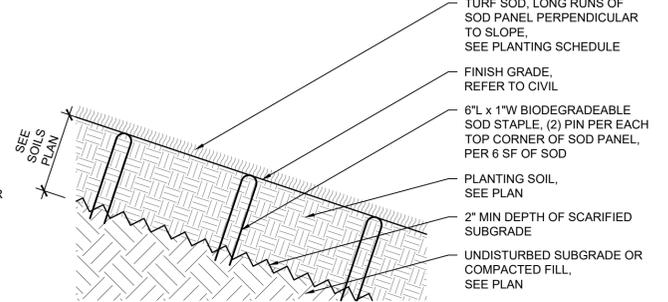


5 SOD (EVENT LAWN) SECTION
 1" = 1'-0"

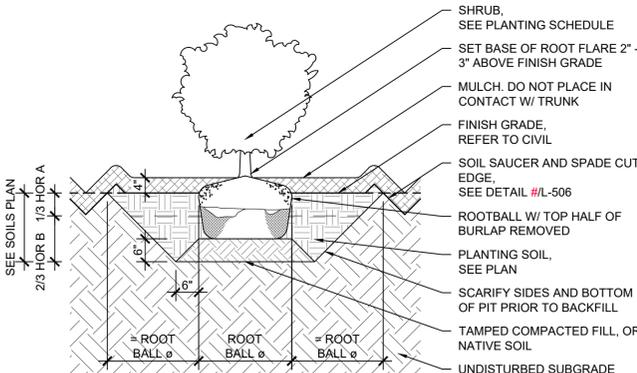


6 SOD SECTION
 1" = 1'-0"

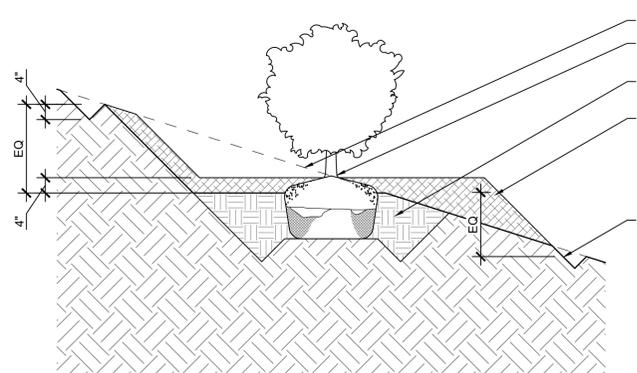
NOTES:
 1. PROVIDE SOD STAPLES ON SLOPES GREATER THAN 1:4
 2. BUTT ALL SEAMS, NO GAPS



7 SOD ON SLOPE SECTION
 1" = 1'-0"

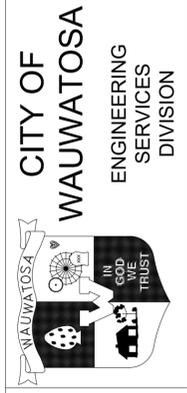


8 SHRUB SECTION
 1/2" = 1'-0"



9 SHRUB ON SLOPE SECTION
 1/2" = 1'-0"

DATE	DESCRIPTION



PLANTING DETAILS
 1700 N 116TH STREET
 WAUWATOSA, WI 53226

CONTRACT:	
FILE NO:	9509
DRAWN BY:	DN
CHECKED BY:	BK
SCALE:	L506

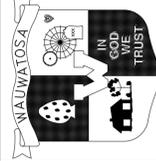
STRUCTURES AND ASSEMBLIES

CODE	UNIT	FURNISH/INSTALL SCOPE	COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	DTL/SHEET
ST-01	LS	OWNER FURNISHED CONTRACTOR INSTALLED	RESTROOM BUILDING	Public Restroom Company 2587 Business Parkway Minden, Nevada 89423 888-888-2060	Prefab flush toilet building	Public Restroom Company Project #11551	19'-4" x 8'-8" x 12'-4" H	As Approved by Owner	-	Pre-Installation Conference with Manufacturer Required	-	REQUIRED	-	REFER TO CIVIL
ASSEMBLY COMPONENT FOR ITEM ABOVE	LS	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	FOUNDATION	-	Concrete Footing	-	Per Manufacturer	-	-	-	-	-	-	
ST-02	LS	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	PICNIC SHELTER	ICON Shelter Systems 1455 Lincoln Ave Holland, MI 49423 800-748-0985 Rep: Gerber Leisure Products, Inc. Contact: Meghan Barrett p. 608-514-6323 meghan@gerberleisure.com	Steel Frame Shelter	MP25x30S-P3 Monoslope Structure with 4 Columns	25' x 30' x 14'-9 H	Steel Posts: Bronze Texture Roof: Surrey Beige	Steel Roof: GalumePlus Posts: Powdercoated	Pre-Installation Conference with Manufacturer Required Delegated Design Contractor to Procure Signed and Sealed Structural Drawings and Calculations.	-	REQUIRED	-	1/L504
ASSEMBLY COMPONENT FOR ITEM ABOVE	EA	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	CONCRETE FOOTING	-	Concrete Footing	-	Contractor to procure Signed and Sealed Structural Design Drawings and Calculations for Footings	-	-	-	-	-	-	2/L504
ST-03	EA	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	BENCH SWINGS	ICON Shelter Systems 1455 Lincoln Ave Holland, MI 49423 800-748-0985 Rep: Gerber Leisure Products, Inc. Contact: Meghan Barrett p. 608-514-6323 meghan@gerberleisure.com	Steel Frame Wood Pergola Slats Metal Bench	AR8.5x21Z	-	As Approved by Owner	Powder coat	Delegated Design Contractor to procure Signed and Sealed Structural Drawings and Calculations.	-	REQUIRED	-	3/504
ASSEMBLY COMPONENT FOR ITEM ABOVE	EA	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	CONCRETE FOOTING	-	Concrete Footing	-	Contractor to procure Signed and Sealed Structural Design Drawings and Calculations for Footings	-	-	-	-	-	-	4/504
ST-04	LS	OWNER FURNISHED OWNER INSTALLED	SHADE SAIL	Gerber Leisure Products, Inc. Contact: Meghan Barrett p. 608-514-6323 meghan@gerberleisure.com	Landscape Structures, Inc. Freestanding System Project ID: 23091802	Skyways Single Post Hypar See LSI Drawing #23092802-02	12' x 12'	Shade Fabric: Purple FR Mat Most: Peacock	Powder coat post	-	REQUIRED	-	L504C	11 68 00
ASSEMBLY COMPONENT FOR ITEM ABOVE	EA	OWNER FURNISHED OWNER INSTALLED	CONCRETE FOOTING	-	Concrete Footing	-	Owner to procure Signed and Sealed Structural Design Drawings and Calculations For Footings	-	-	-	-	-	-	-
WALLS														
CODE	UNIT	FURNISH/INSTALL SCOPE	COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET
REFER TO CIVIL	SFF	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	RETAINING WALL	REFER TO CIVIL	MODULAR BLOCK MSE RETAINING WALLS	REFER TO CIVIL	SEE DETAIL(S)	As Approved by Owner	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REQUIRED	REFER TO CIVIL	REFER TO CIVIL
CURBS														
CODE	UNIT	FURNISH/INSTALL SCOPE	COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET
CB-01	LF	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	RAISED CONCRETE CURB	-	CIP Concrete Barrier Curb w/ Rebar Reinforcement	-	SEE DETAIL(S)	-	Light Broom	Caulked Snap Cap Expansion Joints w/ Saw-cut Control Joints	-	-	-	x/L503
CB-02	LF	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	FLUSH CONCRETE CURB	-	CIP Concrete Flush Curb w/ Rebar Reinforcement	-	SEE DETAIL(S)	-	Light Broom	Caulked Snap Cap Expansion Joints w/ Saw-cut Control Joints	-	-	-	x/L503
PAVING														
CODE	UNIT	FURNISH/INSTALL SCOPE	COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET
PA-01	SF	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	CONCRETE PAVEMENT	-	CIP Concrete w/ Steel Mesh Reinforcement	-	SEE DETAIL(S)	-	Light Broom	Caulked Snap Cap Expansion Joints w/ Saw-cut Control Joints	-	-	10' x 10'	1/L503
ASSEMBLY COMPONENT FOR ITEM ABOVE	LF	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	THICKENED EDGE CONCRETE PAVING	-	-	-	SEE DETAIL(S)	-	-	-	-	-	-	x/L503
PA-02	SF	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	STABILIZED AGGREGATE PAVING	Kalka Granite 550 East Hwy 153 Mosinee, WI 54455	Stabilized Aggregate Paving Granite	-	SEE DETAIL(S)	Midnight Blue'	-	-	REQUIRED	-	-	x/L503
PA-03	-	OWNER FURNISHED OWNER INSTALLED	PLAY TURF SURFACING w/ AGGREGATE BASE	Forever Lawn 8007 Beeson St Louisville, OH 44641 p. 866.992.7879	Protective Play Surface, Synthetic Turf	Playground Grass	-	As Approved by Owner	-	-	REQUIRED	REQUIRED	-	x/L503
ASSEMBLY COMPONENT FOR ITEM ABOVE	-	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	SITE PREP: GRADING, SUBBASE	-	-	-	-	-	-	-	-	-	-	-
PA-03	-	OWNER FURNISHED OWNER INSTALLED	PLAY TURF SURFACING w/ CONCRETE BASE	Forever Lawn 8007 Beeson St Louisville, OH 44641 p. 866.992.7879	Protective Play Surface, Synthetic Turf	Playground Grass	-	As Approved by Owner	-	-	REQUIRED	REQUIRED	-	x/L503
ASSEMBLY COMPONENT FOR ITEM ABOVE	-	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	SITE PREP: GRADING, CONCRETE BASE	-	-	-	-	-	-	-	-	-	-	-
PA-04	SF	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	ENGINEERED WOOD FIBER	-	Protective Play Surface, Engineered Wood Fiber	-	SEE DETAIL(S)	-	-	-	-	-	-	1/L503A
PA-05	SF	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	SENSORY WALK TYPE 1	-	-	-	SEE DETAIL(S)	-	-	'Advanced' Sensory Walk.	REQUIRED	REQUIRED	3' x 10'	L503B
ASSEMBLY COMPONENT FOR ITEM ABOVE	-	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	MEXICAN POND PEBBLES	Lurvey 30560 North Russell Dr Volo, IL 60073	Mexican Pond Pebble in Mortar Setting Bed	-	-	-	-	Set Flat	-	-	-	-
ASSEMBLY COMPONENT FOR ITEM ABOVE	-	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	CLEFT STEPPER	Lurvey 30560 North Russell Dr Volo, IL 60073	Stone Stepper	Paver Arctic Natural Cleft Stepper	Irregular, 18x24" - 1" THK	-	Natural Cleft	-	-	-	-	-
PA-06	SF	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	SENSORY WALK TYPE 2	-	-	-	SEE DETAIL(S)	-	-	'Intermediate' Sensory Walk.	REQUIRED	REQUIRED	3' x 10'	L503B
ASSEMBLY COMPONENT FOR ITEM ABOVE	-	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	MEXICAN POND PEBBLES	Lurvey 30560 North Russell Dr Volo, IL 60073	Mexican Pond Pebble in Mortar Setting Bed	-	3-5" Round	-	-	Set Vertically	-	-	-	-
ASSEMBLY COMPONENT FOR ITEM ABOVE	-	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	STEPPING STONE	-	-	-	-	-	-	-	-	-	-	-
PA-06	SF	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	PAINTED WALK	StreetBond 1 Campus Drive Parlisppany, NJ 07054	Pavement Markings	SB 150AL with primer	SEE DETAIL(S)	SW 6939 - Turquoise SW 6921 - Electric Lime SW 6839 Kimono Violet SW 6926 - Lucky Green	-	'Beginner' Sensory Walk.	-	REQUIRED	3' x 10'	x/ L-X
PA-07	EA	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	ADA TACTILE WARNING TILES	REFER TO CIVIL	Tactile Warning Surfacing	REFER TO CIVIL	2' x 5'	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL
PA-08	-	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	POROUS ASPHALTIC PAVEMENT	REFER TO CIVIL	POROUS ASPHALTIC PAVEMENT	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL

CONTRACT:	9509
FILE NO.:	DN
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CHECKED BY:	BK
SCALE:	

L603

CITY OF WAUWATOSA
ENGINEERING SERVICES DIVISION




HARDSCAPE SCHEDULE

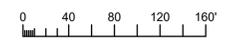
1700 N 116TH STREET
WAUWATOSA, WI 53226



LEGEND

	PROPERTY LINE
	AREA TO BE IRRIGATED OVERHEAD SPRAY ONLY

1 **AREAS TO BE IRRIGATED**
1"=30'-0"



CONTRACT:	9509	DATE		DESCRIPTION
FILE NO:	DN			
DRAWN BY:	BK			
CHECKED BY:				
SCALE:				
L1000				
AREAS TO BE IRRIGATED				
1700 N 116TH STREET				
WAUWATOSA, WI 53226				
 				
				
CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION				

ABBREVIATIONS		LIGHTING LEGEND		POWER LEGEND		GENERAL LEGEND		GENERAL NOTES			
AC	ALTERNATING CURRENT	NIC	NOT INCLUDED IN CONTRACT	⊕	SINGLE RECEPTACLE	□	NEW ELECTRICAL COMPONENT	<p>1. DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL REQUIRED COMPONENTS FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL FURNISH AND INSTALL MATERIAL EQUIPMENT, DEVICES, FIXTURES, SERVICE REQUIREMENTS NECESSARY TO CONFORM TO THE STRUCTURE, EQUIPMENT CONNECTIONS, FOR A COMPLETE AND FUNCTIONAL INSTALLATION AND SHALL MAINTAIN APPROPRIATE CLEARANCES.</p> <p>2. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, LOCAL CODES, FEDERAL AND STATE REGULATIONS, AND ALL REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.</p> <p>3. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.</p> <p>4. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE FULL EXTENT OF WORK AND PROJECT CONDITIONS. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT.</p> <p>5. THE CONTRACTOR SHALL CHECK ALL DRAWINGS AND SPECIFICATIONS OF OTHER TRADES AND INCLUDE IN THEIR BID ANY ADDITIONAL WORK REQUIRED BY THIS TRADE.</p> <p>6. CONTRACTOR SHALL VERIFY ALL EQUIPMENT CONNECTION CONFIGURATIONS BEFORE PURCHASE. ALL DEVICES SHOWN ARE FOR REFERENCE ONLY. TO COMMUNICATE DESIGN INTENT, FINAL LOCATIONS SHALL BE VERIFIED PRIOR TO INSTALLATION. THIS NOTE SHALL APPLY TO, BUT NOT BE LIMITED TO, RECEPTACLES, SWITCHES, DATA PORTS, AUDIO/VIDEO DEVICES, AND TELEPHONE JACKS.</p> <p>7. CONDUCTOR SIZES INDICATED ARE MINIMUM SIZES BASED ON 60°C COPPER CONDUCTOR 100 AMPS OR LESS AND 75°C COPPER CONDUCTOR GREATER THAN 100 AMPS. CAPACITIES OF CONDUCTORS DO NOT TAKE VOLTAGE DROP INTO CONSIDERATION. CONTRACTOR SHALL SIZE CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS TO PREVENT A VOLTAGE DROP EXCEEDING 3 PERCENT AT THE FARTHEST OUTLET OF POWER, HEATING, AND LIGHTING LOADS, OR COMBINATION OF SUCH LOADS, AND WHERE THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST OUTLET DOES NOT EXCEED 5 PERCENT, TO PROVIDE REASONABLE EFFICIENCY OF OPERATION.</p>	DATE	DESCRIPTION	
AFF	ABOVE FINISHED FLOOR	NL	NIGHT LIGHT	⊕ ₃	THREE WAY WALL SWITCH	□	EXISTING ELECTRICAL COMPONENT		CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION		
AFG	ABOVE FINISHED GRADE	NO	NORMALLY OPEN	⊕ ₄	FOUR WAY WALL SWITCH	⊕	DEMOLISHED ELECTRICAL COMPONENT				
AHJ	AUTHORITY HAVING JURISDICTION	NTS	NOT TO SCALE	⊕ _D	DIMMING SWITCH	⊕ _{6"}	KEY NOTE				
AIC	AMPERE INTERRUPTING CAPACITY			⊕ _{D3}	THREE WAY DIMMING SWITCH	⊕ _{6"}	TYPICAL CIRCUIT				
ALT	ALTERNATE	OC	ON CENTER	⊕ _{D4}	FOUR WAY DIMMING SWITCH	⊕ _{6"}	UNSWITCHED CIRCUIT				
AMP	AMPERE	OD	OUTSIDE DIAMETER	⊕ _{SD}	STEP DIMMING SWITCH	⊕ _{6"}					
AOR	AREA OF REFUGE	OL	OVERLOAD	⊕ _K	KEYED SWITCH	⊕ _{6"}					
AORM	AREA OF REFUGE MASTER STATION	OS	OPTIONAL STANDBY	⊕ _{K3}	THREE WAY KEYED SWITCH	⊕ _{6"}					
AORR	AREA OF REFUGE REMOTE STATION			⊕ _{K4}	FOUR WAY KEYED SWITCH	⊕ _{6"}					
ATS	AUTOMATIC TRANSFER SWITCH	P	POLE	⊕ _{SS}	DUAL LEVEL SWITCH	⊕ _{6"}					
AUTO	AUTOMATIC	PA	PUBLIC ADDRESS	⊕ _{SS}	SWITCH STATION	⊕ _{6"}					
AV	AUDIO VISUAL	PB	PUSHBUTTON	⊕ _{OS}	WALL MOUNT OCCUPANCY SENSOR	⊕ _{6"}					
BLDG	BUILDING	PC	PLUMBING CONTRACTOR	⊕ _{OS}	CEILING MOUNT OCCUPANCY SENSOR	⊕ _{6"}					
BOT	BOTTOM	PE	PHOTOELECTRIC CELL, PHOTOEYE	⊕ _{VS}	SWITCH-BOX VACANCY SENSOR	⊕ _{6"}					
C	CONDUIT	PED	PEDESTAL	⊕ _{VS}	WALL MOUNT VACANCY SENSOR	⊕ _{6"}					
CAB	CABINET	PEND	PENDANT	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
CATV	COMMUNITY ANTENNA TELEVISION	PF	POWER FACTOR	⊕ _{VS}	WALL MOUNT VACANCY SENSOR	⊕ _{6"}					
CB	CIRCUIT BREAKER	PH	PHASE	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
CCTV	CLOSED CIRCUIT TELEVISION	PL	PILOT LIGHT	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
CD	CANDELA OR CONSTRUCTION DOCUMENT	PNL	PANEL	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
CKT	CIRCUIT	PWR	POWER	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
CLG	CEILING	RC	REMOTE CONTROL	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
COAX	COAXIAL CABLE	RCP	REFLECTED CEILING PLAN	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
CP	CONTROL PANEL	REC	RECESSED	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
CT	CURRENT TRANSFORMER	RECP	RECEPTACLE	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
CU	COPPER	SCC	SHORT CIRCUIT CAPACITY	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
dB	DECIBEL	SF	SQUARE FOOT (FEET)	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
DB	DIRECT BURIAL	SPD	SURGE PROTECTION DEVICE SPECIFICATION	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
DEMO	DEMOLITION	SPEC	SPECIFICATION	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
DISC	DISCONNECT	SPST	SINGLE POLE, SINGLE THROW SWITCH STATION	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
DIST	DISTRIBUTION	SW	SWITCH	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
DM	DIMMING	T	TAMPERPROOF	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
DN	DOWN	TC	TIMECLOCK	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
DPDT	DOUBLE POLE, DOUBLE THROW	TV	TELEVISION	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
DPST	DOUBLE POLE, SINGLE THROW	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
DS	DAYLIGHT SENSOR	TYP	TYPICAL	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
DWG	DRAWING			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
EBU	EMERGENCY BATTERY UNIT	UL	UNDERWRITERS LABORATORY	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
EC	ELECTRICAL CONTRACTOR	UNV	UNIVERSAL	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
ELEV	ELEVATOR	UPS	UNINTERRUPTIBLE POWER SUPPLY	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
EM	EMERGENCY	V	VOLT	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
ENCL	ENCLOSURE	VA	VOLT AMPERE	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
ER	ELEVATOR RECALL	VAC	VOLT AMPERE CURRENT	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
ERL	EXISTING TO BE RELOCATED	VFD	VARIABLE FREQUENCY DRIVE	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
ES	ELECTRIC STRIKE	W	WATT OR WIRE	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
ETR	EXISTING TO REMAIN	WAP	WIRELESS ACCESS POINT	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
FA	FIRE ALARM	WP	WEATHERPROOF	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
FAAP	FIRE ALARM ANNUNCIATOR PANEL			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
FACP	FIRE ALARM CONTROL PANEL	X-	EXISTING TRANSFER	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
FC	FOOT-CANDLE	XFER	TRANSFER	⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
FLA	FULL LOAD AMPERE			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
FP	FIRE PROTECTION			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
FSS	FUSED SAFETY SWITCH			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
FVNR	FULL VOLTAGE NON-REVERSING			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
FVR	FULL VOLTAGE REVERSING			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
GEN	GENERATOR			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
GRD	GROUND			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
GC	GENERAL CONTRACTOR			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
GFI / GFCI	GROUND FAULT CIRCUIT INTERRUPTER			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
HID	HIGH INTENSITY DISCHARGE			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
HOA	HAND-OFF-AUTO			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
HP	HORSE POWER			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
HZ	HERTZ			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
IG	INSULATED GROUND			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
K	KEY OPERATED			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
JB	JUNCTION BOX			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
KV	KILOVOLT			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
KVA	KILOVOLT AMPERE			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
KW	KILOWATT			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
KWH	KILOWATT HOUR			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
LCP	LIGHTING CONTROL PANEL			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
LED	LIGHT EMITTING DIODE			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
LF	LINEAR FOOT (FEET)			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
LM	LUMEN			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
LPS	LOW PRESSURE SODIUM			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
LRA	LOCKED ROTOR AMPERAGE			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
LTG	LIGHTING			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
LV	LOW VOLTAGE			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
MAG	MAGNETIC STARTER			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
MAN	MANUAL STARTER			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
MATV	MASTER ANTENNA TELEVISION SYSTEM			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
MC	MECHANICAL CONTRACTOR			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
MCA	MINIMUM CIRCUIT AMPACITY			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
MCB	MAIN CIRCUIT BREAKER			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
MFG	MANUFACTURER			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
MH	MANHOLE			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
MOCPP	MAXIMUM OVERCURRENT PROTECTION			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
MLO	MAIN LUG ONLY			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
MTD	MOUNTED			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
MTS	MANUAL TRANSFER SWITCH			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
MV	MEDIUM VOLTAGE			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
N	NEUTRAL			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
NA	NOT APPLICABLE			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
NAC	NOTIFICATION APPLIANCE CIRCUIT			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
NC	NORMALLY CLOSED			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
NEC	NATIONAL ELECTRICAL CODE			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
NFPA	NATIONAL FIRE PROTECTION AGENCY			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					
NFSS	NON-FUSED SAFETY SWITCH			⊕ _{VS}	CEILING MOUNT VACANCY SENSOR	⊕ _{6"}					

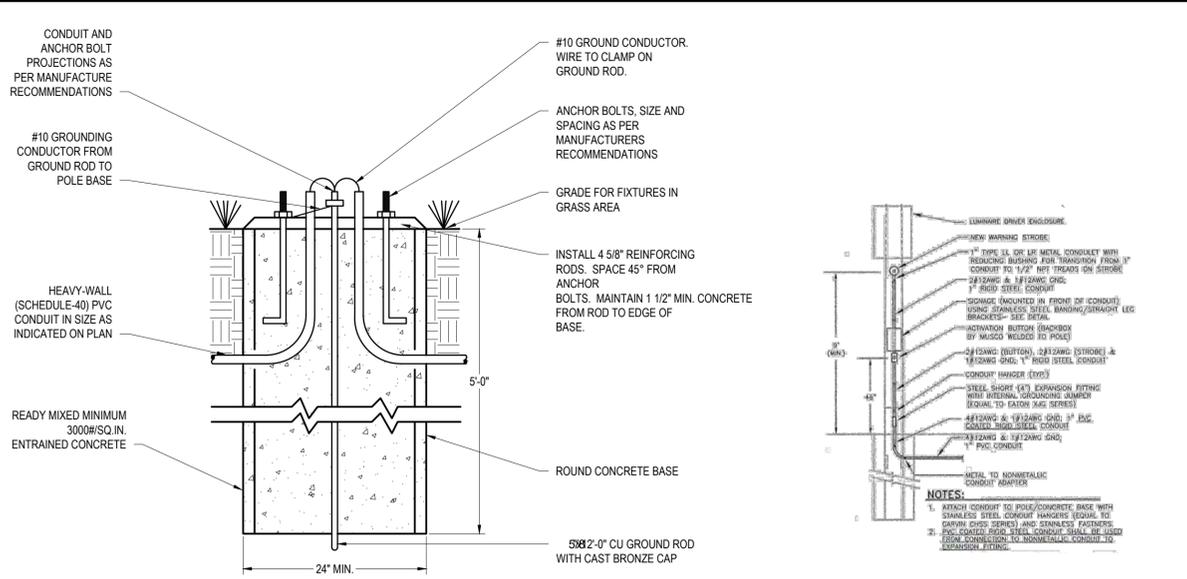


ELECTRICAL LEGEND AND NOTES
 1900 N 116TH STREET
 WAUWATOSA, WI 53226

NOT FOR CONSTRUCTION



CONTRACT NO:	21231
FILE NO:	FA
DRAWN BY:	DH
CHECKED BY:	AS SHOWN
SCALE:	E000

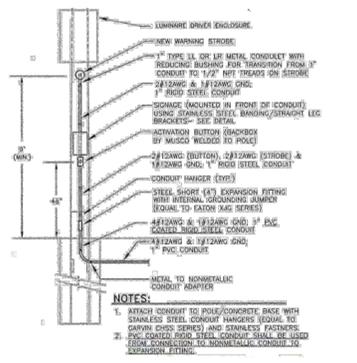


LIGHTING FIXTURE SCHEDULE

FIXT.	DESCRIPTION	TYPE	INPUT		MANUFACTURER	CATALOG NUMBER	MOUNTING	SEE NOTE
			W	VOLT				
OF1	FLOODLIGHT	18,000 LUMEN, 3000K	170W	120V	LITHONIA	DSXF3 LED-6P2-30K-70CRI-MSP-[VOLTAGE]-[MOUNTING]-[OPTIONS]-DBLXD	POLE	3
OP1	AREA HEAD	3700 LUMEN, 3000K	22W	SOLAR	SUNNA DESIGN	SL4249-1-[LIGHTING PROFILE]-290-RL204-3-120-2-27	POLE	1,2
OP2	AREA HEAD	3700 LUMEN, 3000K	22W	SOLAR	SUNNA DESIGN	SL4249-1-[LIGHTING PROFILE]-290-RL204-3-120-2-07	POLE	1,2
OP3	AREA HEAD	33,000 LUMEN, 3000K	277W	120V	LITHONIA	DSX1 LED-P9-30K-70CRI-T4M-[VOLTAGE]-[MOUNTING]-[OPTIONS]-DBLXD	POLE	3

REMARKS:
 A. CATALOG NUMBERS ARE TO PROVIDE GUIDANCE ONLY AND MAY NOT BE COMPLETE.
 B. FIXTURES SPECIFIED TO MEET DESIGN INTENT. EQUALS MAY BE SUBSTITUTED SUBJECT TO DESIGN TEAM'S APPROVAL WITH PROOF OF SYSTEM PERFORMANCE VIA CALCULATION AND PRODUCT DOCUMENTATION.
 C. PROVIDE ALL PARTS AND PIECES NECESSARY FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
 D. ARCHITECT TO DETERMINE ALL FINISHES.
 E. VERIFY DIMMING CONTROLS ARE COMPATIBLE WITH DIMMING DRIVER SELECTED FOR FIXTURE.
 F. POLE HEIGHTS SHALL NOT EXCEED 25' FEET AFG.

NOTES:
 1. SOLAR SYSTEM SHALL BE CONFIGURED AND AIMED PER MANUFACTURER'S GUIDELINES.
 2. POLES FOR SOLAR FIXTURES ARE INCLUDED TOGETHER AS A UNIT WITH SOLAR PANELS, LIGHTING FIXTURES, AND BATTERIES.
 3. POLES FOR HARD WIRED FIXTURES SHALL BE PROVIDED BASED ON THE COMPLETE INSTALLATION OF ALL LIGHT FIXTURES AND MOUNTING EQUIPMENT AS DIRECTED BY FIXTURE MANUFACTURER. MANUFACTURER SHALL PROVIDE SHOP DRAWING FOR THIS INSTALLATION.



3 LIGHT POLE BASE

N.T.S.

2 SLED PUSHBUTTON/STROBE DETAIL

N.T.S.

POLE HEIGHT	BASE EMBEDMENT / DIAMETER			
	EPA 2.0 FT ² OR LESS	EPA 4.0 FT ² TO 2.1 FT ²	EPA 6.0 FT ² TO 4.1 FT ²	EPA 6.1 FT ² OR GREATER
15'-0"	6'5 1/2"-6"	6'5 1/2"-6"	6'5 1/2"-6"	6'5 1/2"-6"
20'-0"	6'5 1/2"-6"	6'5 1/2"-6"	8'-0 1/2"-6"	8'-0 1/2"-6"
25'-0"	6'5 1/2"-6"	8'-0 1/2"-6"	9'-0 1/2"-6"	10'-0 1/2"-6"
30'-0"	8'-0 1/2"-6"	9'-0 1/2"-6"	10'-0 1/2"-6"	10'-0 1/2"-6"

NOTES:
 1. TABLE IS BASED ON SOIL BEARING PRESSURE OF 300 PSF.

PARK SERVICE ENCLOSURE EQUIPMENT LIST

- FREE-STANDING 3" GALVANIZED PIPE AND STAINLESS STEEL UNISTRUT (BACK-TO-BACK DOUBLE CHANNEL P1001 SERIES) SUPPORT FRAME FOR MOUNTING ELECTRICAL EQUIPMENT. PROVIDE A MINIMUM OF (2) PIPES. TOP OF PIPES TO BE CAPPED. INSTALL SUPPORT FRAME PIPES THRU CORE-DRILLED HOLES IN CONCRETE PAD.
- UTILITY APPROVED 100A, 120/240V, 1φ, 3W OUTDOOR TRANSOCKET WITH METER SOCKET MOUNTED ON COVER. MOUNT TRANSOCKET TO FREE-STANDING 3" GALVANIZED PIPE (MINIMUM OF 3 CAPPED PIPES) AND STAINLESS STEEL UNISTRUT SUPPORT FRAME. INSTALL SUPPORT FRAME PIPES THRU CORE-DRILLED HOLES IN CONCRETE PAD.
- 24 CKT., 120/240V, 1φ, 3-WIRE PANELBOARD WITH 100A MAIN BREAKER-SQUARE D TYPE NO. PANEL TO BE TYPE NEMA 3R ENCLOSURE. ENCLOSURE TO HAVE HASP FOR PADLOCK. REFER TO PANELS SCHEDULE FOR MORE INFORMATION.
- PROVIDE GRAVEL A MINIMUM OF 12" DEEP BELOW PAD AND EXTENDING 12" OUT FROM EDGES OF PAD.
- 20A, 120V DOUBLE-DUPLEX GFCI WEATHER RESISTANT RECEPTACLES, WITH WEATHERPROOF "WHILE-IN-USE" COVER.

PANEL NAME: A

LOCATION:	Sled hill	VOLTS:	120/240	AIC RATING:	10,000 MIN. EC TO VERIFY
SUPPLY FROM:	Utility	PHASES:	1	MAINS TYPE:	MCB
MOUNTING:	Surface	WIRES:	3	BUS RATING:	100
ENCLOSURE:	Type 3R			MCB RATING:	100

POLE NO.	POLES	AMP	DESCRIPTION	NOTES	A	B	DESCRIPTION	NOTES	AMP	POLES	POLE NO.
1	1	20	RECEPT		720			SPARE	20	1	2
3	1	20	LIGHTS			1234		SPARE	20	1	4
5	1	20	SPARE					SPARE	20	1	6
7											8
9											10
11											12
13											14
15											16
17											18
19											20
21											22
23											24
PHASE TOTAL:					720	0					
TOTAL LOAD:					720	0					

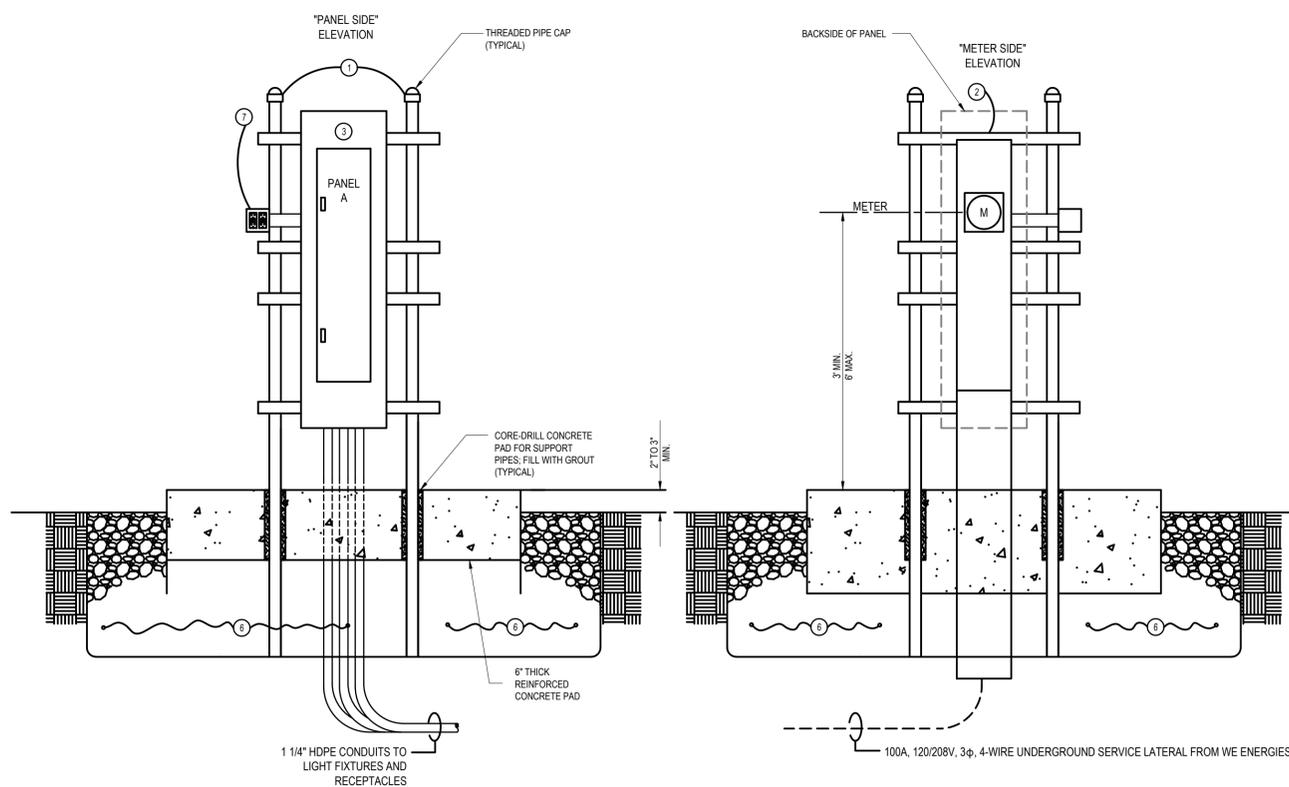
NOTES:
 1. GFI BREAKER
 2. SHUNT TRIP BREAKER

PANEL NAME: R

LOCATION:	Restroom	VOLTS:	120/240	AIC RATING:	10,000 MIN. EC TO VERIFY
SUPPLY FROM:	Utility	PHASES:	1	MAINS TYPE:	MCB
MOUNTING:	Surface	WIRES:	3	BUS RATING:	100
ENCLOSURE:	Type 3R			MCB RATING:	100

POLE NO.	POLES	AMP	DESCRIPTION	NOTES	A	B	DESCRIPTION	NOTES	AMP	POLES	POLE NO.
1	1	20	RECEPT					SPARE	20	1	2
3	1	20	LIGHTS					SPARE	20	1	4
5	1	20	SPARE					SPARE	20	1	6
7											8
9											10
11											12
13											14
15											16
17											18
19											20
21											22
23											24
PHASE TOTAL:					0	0					
TOTAL LOAD:					0	0					

NOTES:
 1. GFI BREAKER
 2. SHUNT TRIP BREAKER



1 ELECTRICAL SERVICE EQUIPMENT

N.T.S.

NOT FOR CONSTRUCTION

CONTRACT:	21231
FILE NO.:	FA
DRAWN BY:	DH
CHECKED BY:	AS SHOWN
SCALE:	E500

ELECTRICAL SCHEDULES
 1900 N 116TH STREET
 WAUWATOSA, WI 53226

CITY OF WAUWATOSA
 ENGINEERING SERVICES DIVISION

THE SIGMA GROUP
 Single Source, Sound Solutions

site

