2024 Green Infrastructure Upgrades

Greenfield Bilingual School, Site #202

1711 S 35TH STREET Milwaukee, WI 53215

JANUARY 25, 2024 100% CONSTRUCTION DOCUMENTS

MPS Project Number: 8318 SmithGroup Project Number: 14895

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L502

Sheet Number Sheet Title COVER SHEET G001 GENERAL NOTES AND LEGEND CV100 **EXISTING CONDITIONS** CV101 **EXISTING CONDITIONS** SITE PREPARATION AND EROSION CONTROL CE100 CS100 SITE LAYOUT CG100 GRADING PLAN CU100 UTILITIES PLAN PAVEMENT MARKINGS PLAN CP100 CE500 **EROSION CONTROL DETAILS** CS500 SITE DETAILS CS501 SITE DETAILS CS502 SITE DETAILS CU500 UTILITY DETAILS CU501 UTILITY DETAILS CU502 UTILITY DETAILS CP500 PAVEMENT MARKING DETAILS CP501 PAVEMENT MARKING DETAILS L300 PLANTING PLAN L500 PLANTING NOTES & DETAILS L501 PLANTING DETAILS

PLANTING SCHEDULE

Prepared for:



Milwaukee Public Schools 5225 W. Vliet Street Milwaukee, WI 53208 Switchboard: (414) 475-8393

Prepared by:

SMITHGROUP

MILWAUKEE, WI 53202 www.smithgroup.com



1836 W. FOND DU LAC AVE. MILWAUKEE, WI 53205 414.622.0103

DEDUCT ALTERNATES

DEDUCT ALTERNATE 1 - NATURE PLAY

BASE BID INCLUDES THE FULL INSTALLATION OF NATURE PLAY AREA AS INDICATED ON THE PLANS.

INSTALLATION OF CONCRETE CURB, ENGINEERED WOOD FIBER, ADA RAMP PRODUCT, AND UNDERDRAIN ONLY. NO INSTALLATION OF NATURE PLAYGROUND PLAY FEATURES.

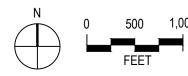
DEDUCT ALTERNATE 2 (INCLUDING ALTERNATE 2-A, 2-B, AND 2-C) - METAL SEATING
BASE BID INCLUDES THE FULL INSTALLATION OF EXPANDED METAL BENCHES AND PICNIC TABLES AS INDICATED ON THE PLANS.

INSTALLATION OF CONCRETE BENCH PADS AND ASPHALT SURFACE ONLY. BENCHES AND PICNIC TABLES SHALL NOT BE PROVIDED.

BASE BID INCLUDES THE FULL INSTALLATION OF MUSICAL INSTRUMENTS AS INDICATED ON THE PLANS. DEDUCT ALTERNATE INCLUDES: INSTALLATION OF CONCRETE PAD ONLY, MUSICAL INSTRUMENTS SHALL NOT BE PROVIDED.

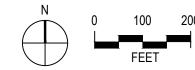


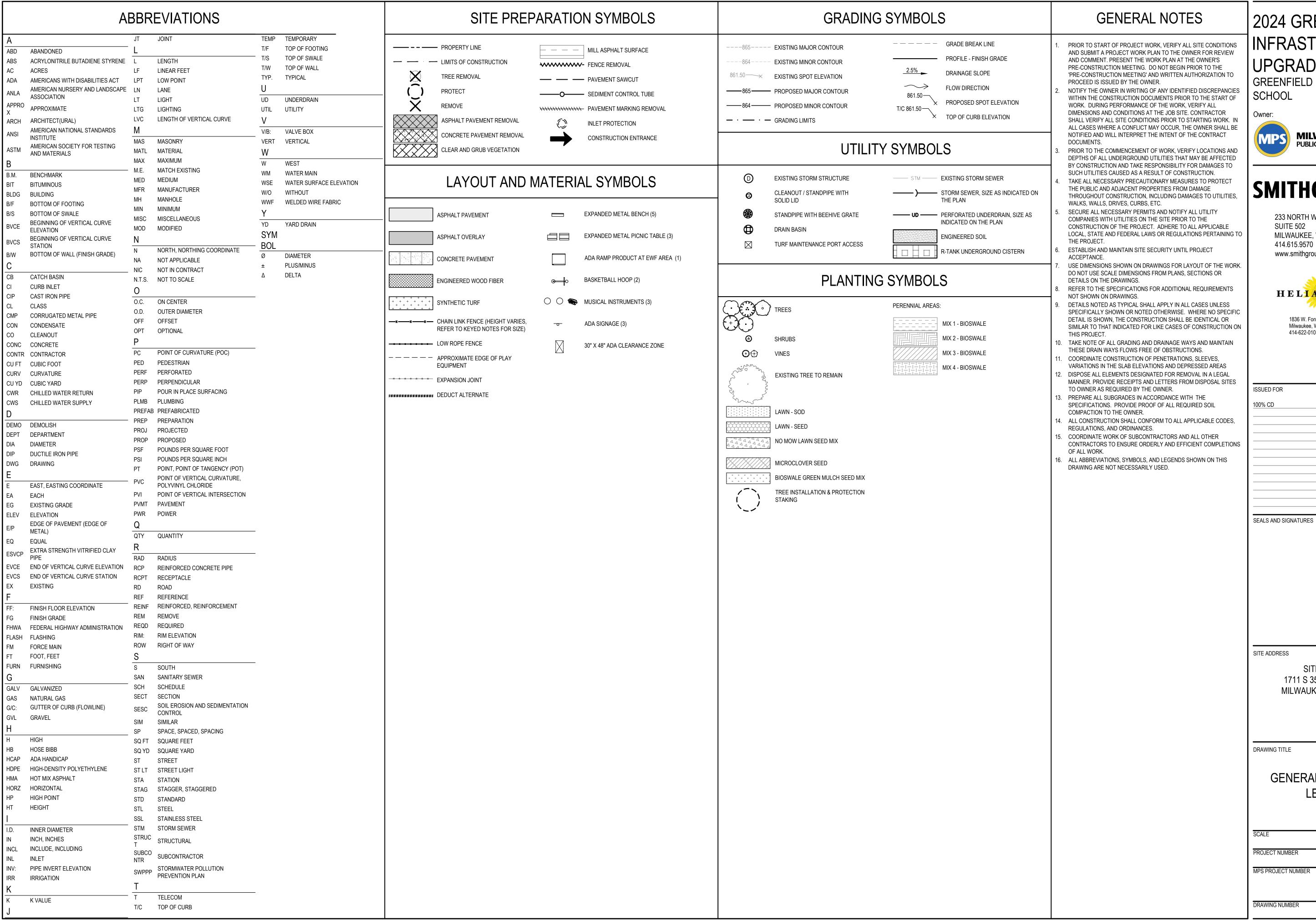
PROJECT VICINITY MAP





PROJECT LOCATION MAP





2024 GREEN INFRASTRUCTURE

UPGRADES GREENFIELD BILINGUAL



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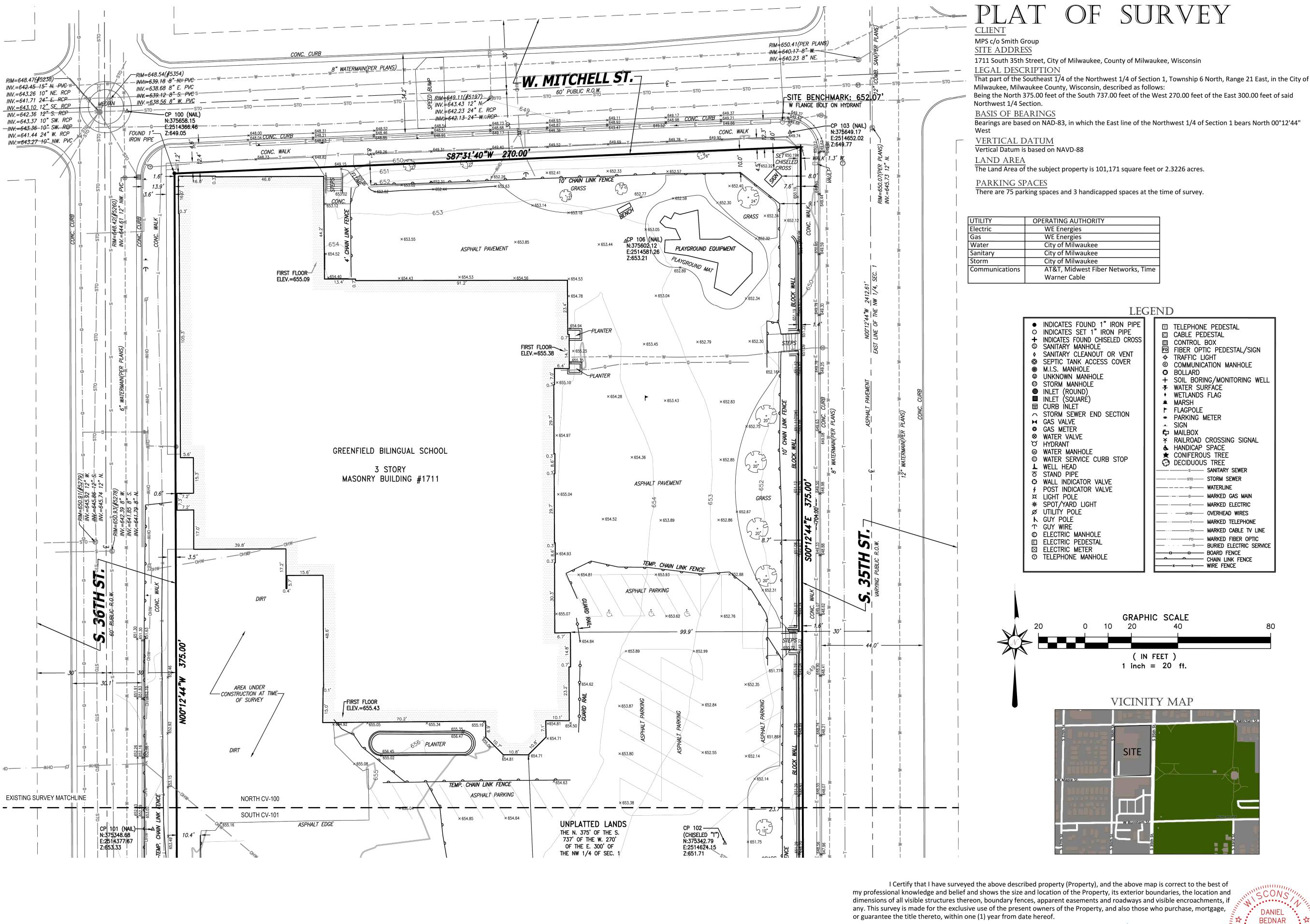
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100% CD		01/25/2024
	_	
	_	

SITE # 202 1711 S 35TH STREET MILWAUKEE, WI 53215

GENERAL NOTES AND LEGEND

	\sim
MPS PROJECT NUMBER	
	8318, DIVISION
PROJECT NUMBER	
	1489

G002



2024 GREEN
INFRASTRUCTURE
UPGRADES

GREENFIELD BILINGUAL SCHOOL

Owner:



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SEALS AND SIGNATURES		

SITE ADDRESS

SITE # 202 1711 S 35TH STREET MILWAUKEE, WI 53215

DRAWING TITLE

S-2812

GERMANTOWN WI

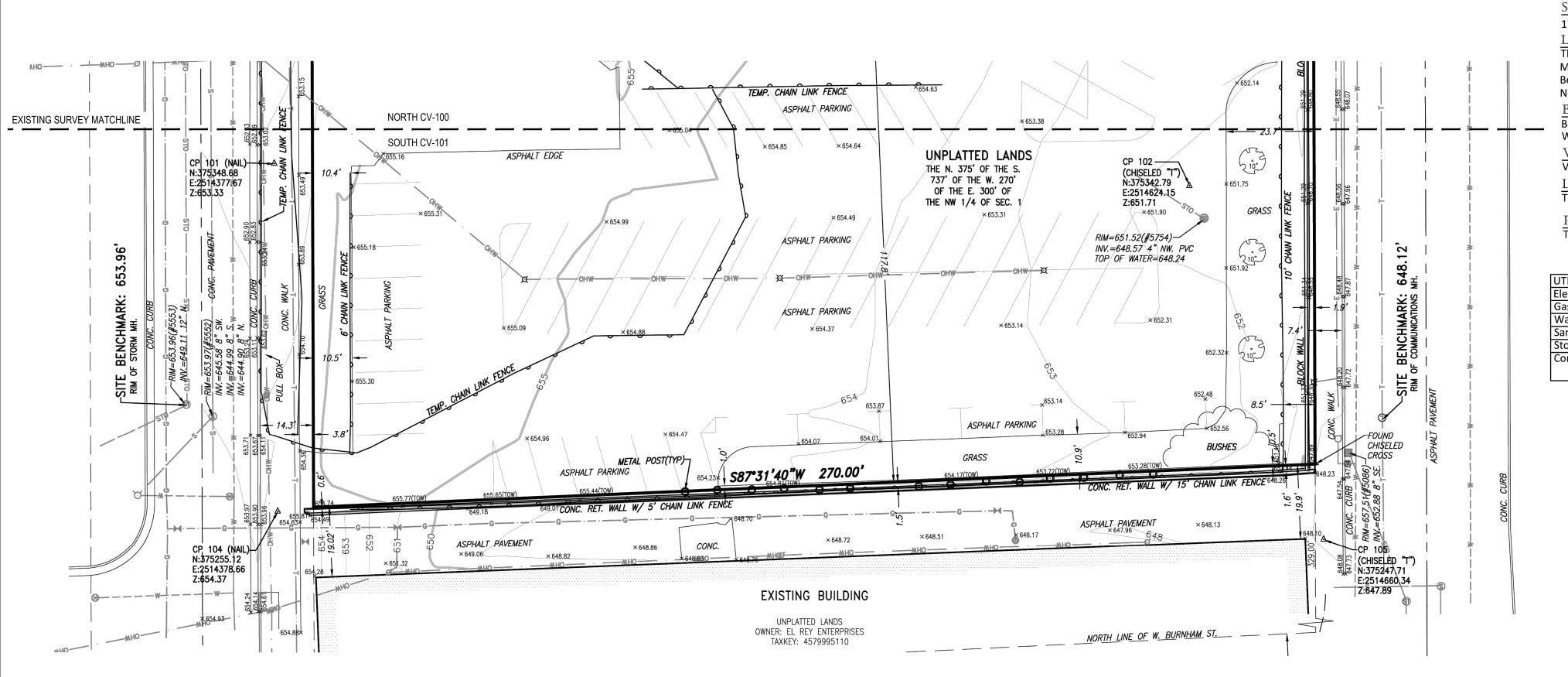
EXISTING CONDITIONS

SCALE	1489
PROJECT NUMBER	8318, DIVISION
MPS PROJECT NUMBER	CV100
DRAWING NUMBER	

Date: October 25, 2023

Daniel E. Bednar
Professional Land Surveyor

Registration Number S-2812



PLAT OF SURVEY

MPS c/o Smith Group SITE ADDRESS

1711 South 35th Street, City of Milwaukee, County of Milwaukee, Wisconsin

LEGAL DESCRIPTION

That part of the Southeast 1/4 of the Northwest 1/4 of Section 1, Township 6 North, Range 21 East, in the City of Milwaukee, Milwaukee County, Wisconsin, described as follows: Being the North 375.00 feet of the South 737.00 feet of the West 270.00 feet of the East 300.00 feet of said

Northwest 1/4 Section. BASIS OF BEARINGS

Bearings are based on NAD-83, in which the East line of the Northwest 1/4 of Section 1 bears North 00°12'44"

VERTICAL DATUM

Vertical Datum is based on NAVD-88

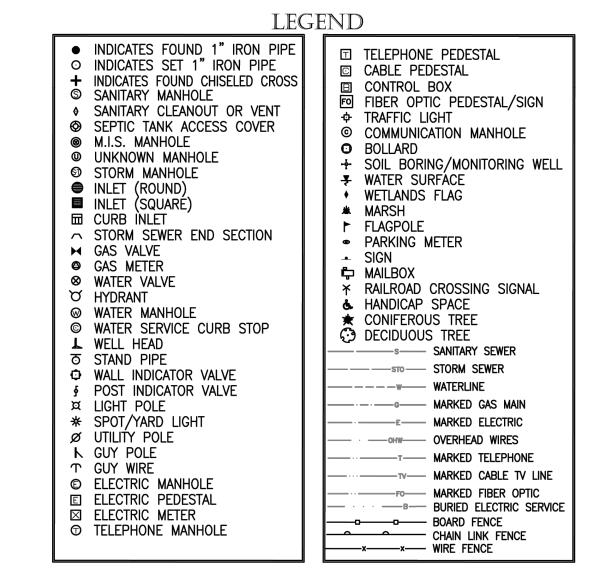
LAND AREA

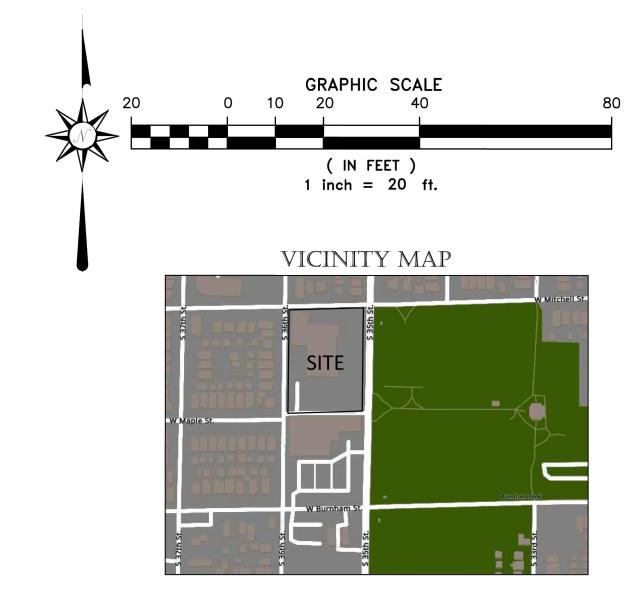
The Land Area of the subject property is 101,171 square feet or 2.3226 acres.

PARKING SPACES

There are 75 parking spaces and 3 handicapped spaces at the time of survey.

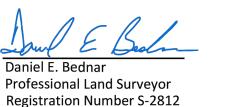
UTILITY	OPERATING AUTHORITY
Electric	WE Energies
Gas	WE Energies
Water	City of Milwaukee
Sanitary	City of Milwaukee
Storm	City of Milwaukee
Communications	AT&T, Midwest Fiber Networks, Time
	Warner Cable

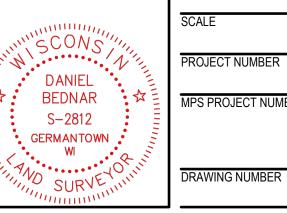




I Certify that I have surveyed the above described property (Property), and the above map is correct to the best of my professional knowledge and belief and shows the size and location of the Property, its exterior boundaries, the location and dimensions of all visible structures thereon, boundary fences, apparent easements and roadways and visible encroachments, if any. This survey is made for the exclusive use of the present owners of the Property, and also those who purchase, mortgage, or guarantee the title thereto, within one (1) year from date hereof.

Date: October 25, 2023





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GREENFIELD BILINGUAL SCHOOL

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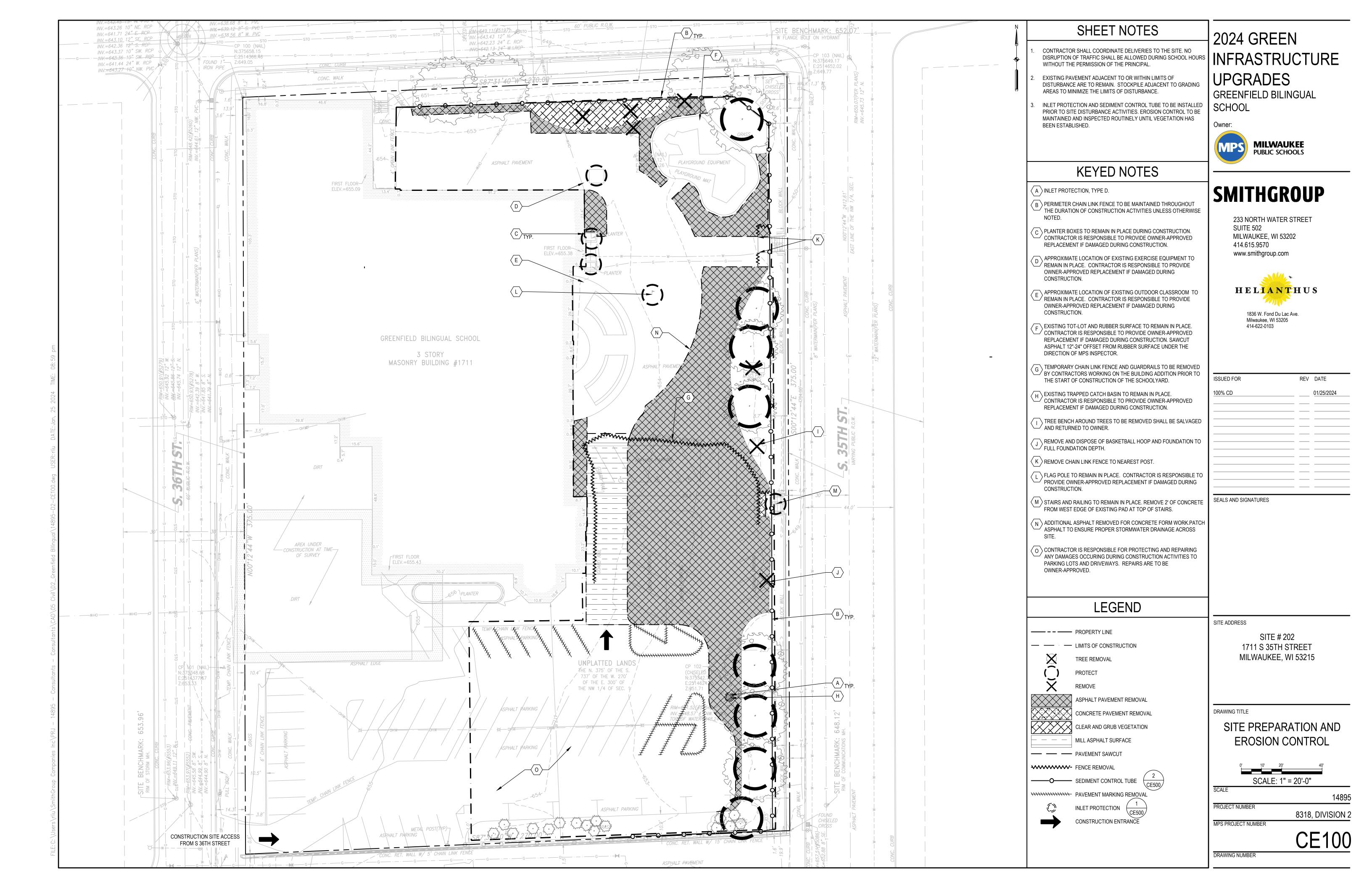
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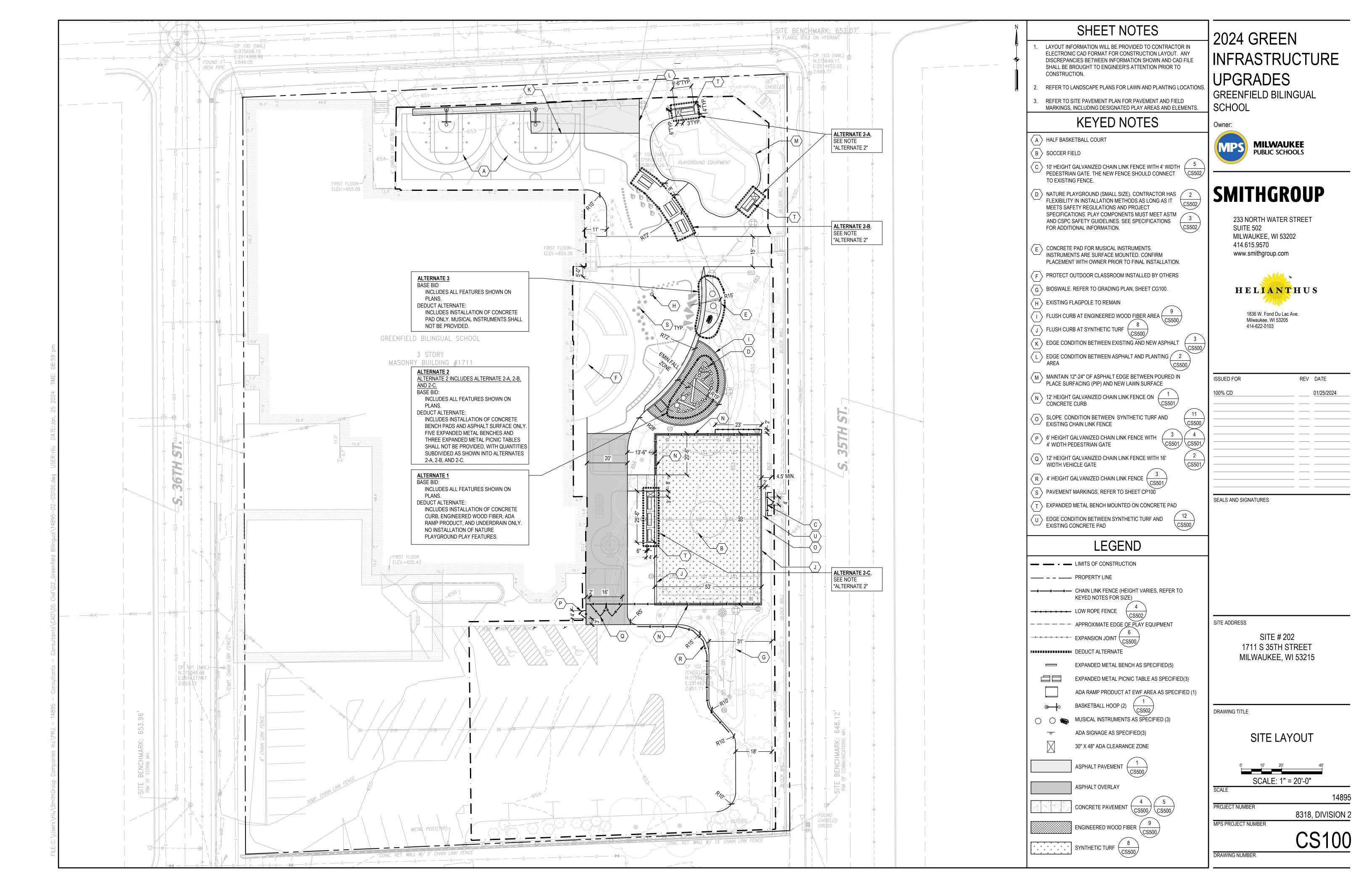
SITE # 202 1711 S 35TH STREET MILWAUKEE, WI 53215

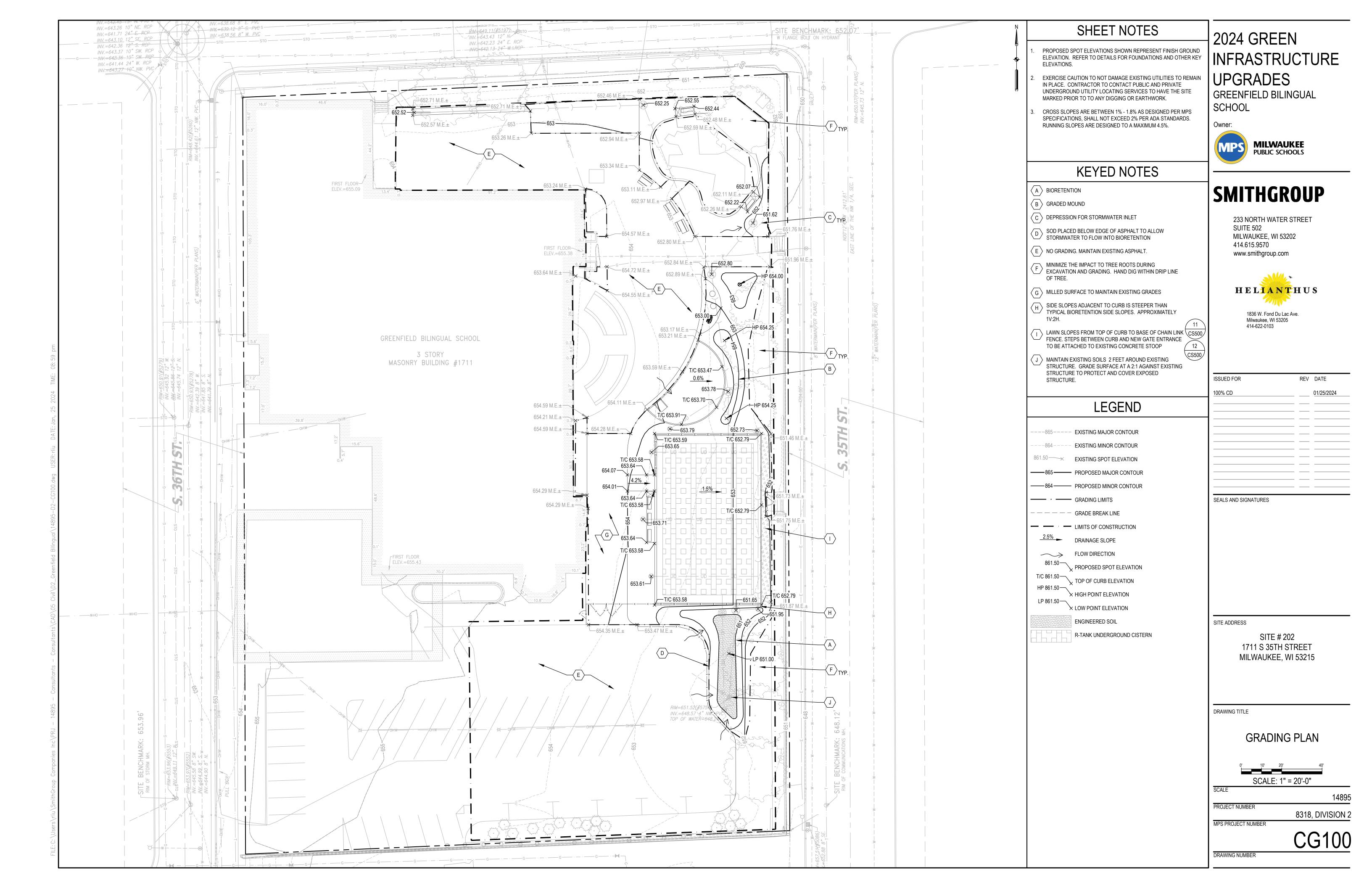
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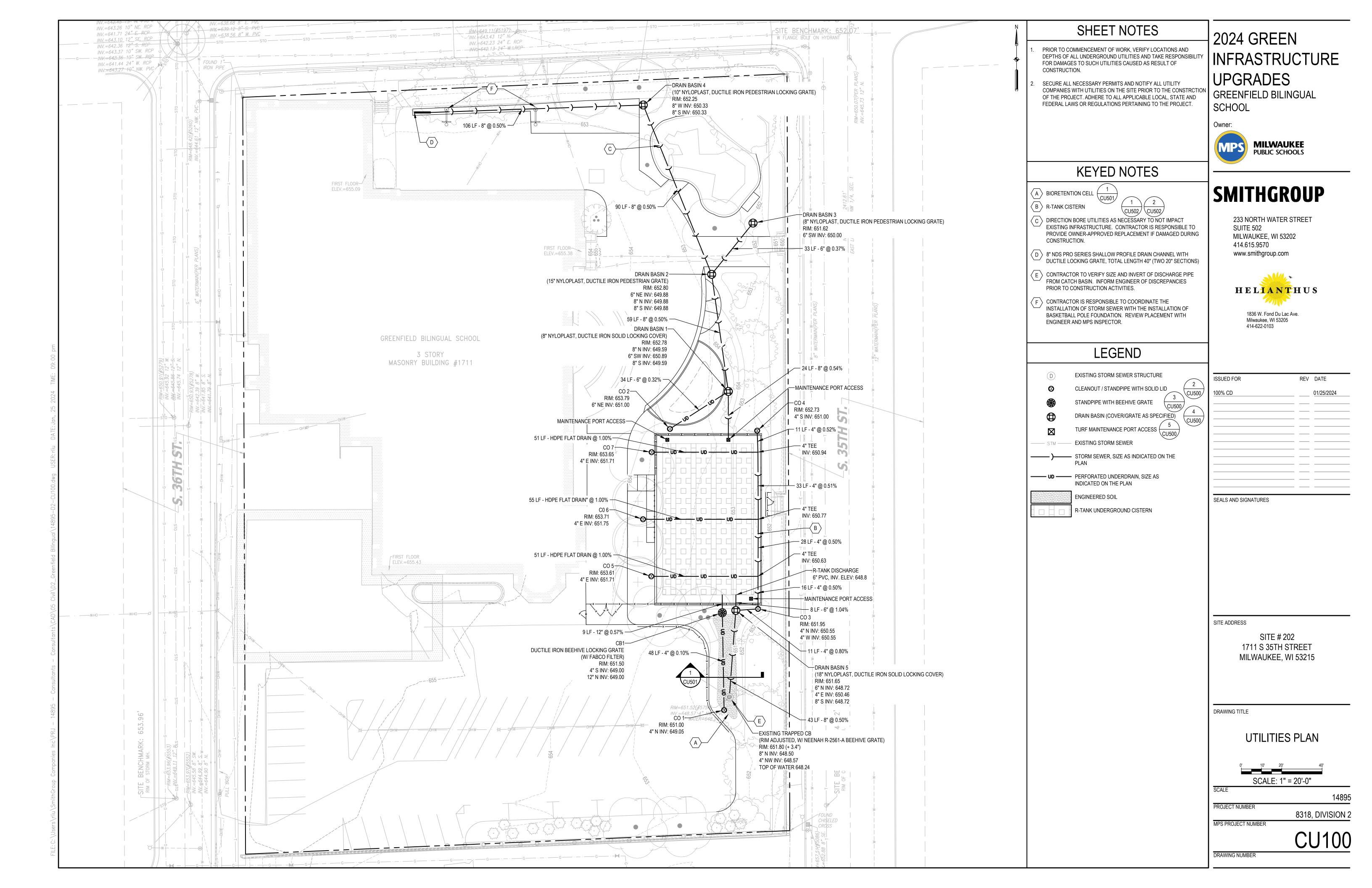
EXISTING CONDITIONS

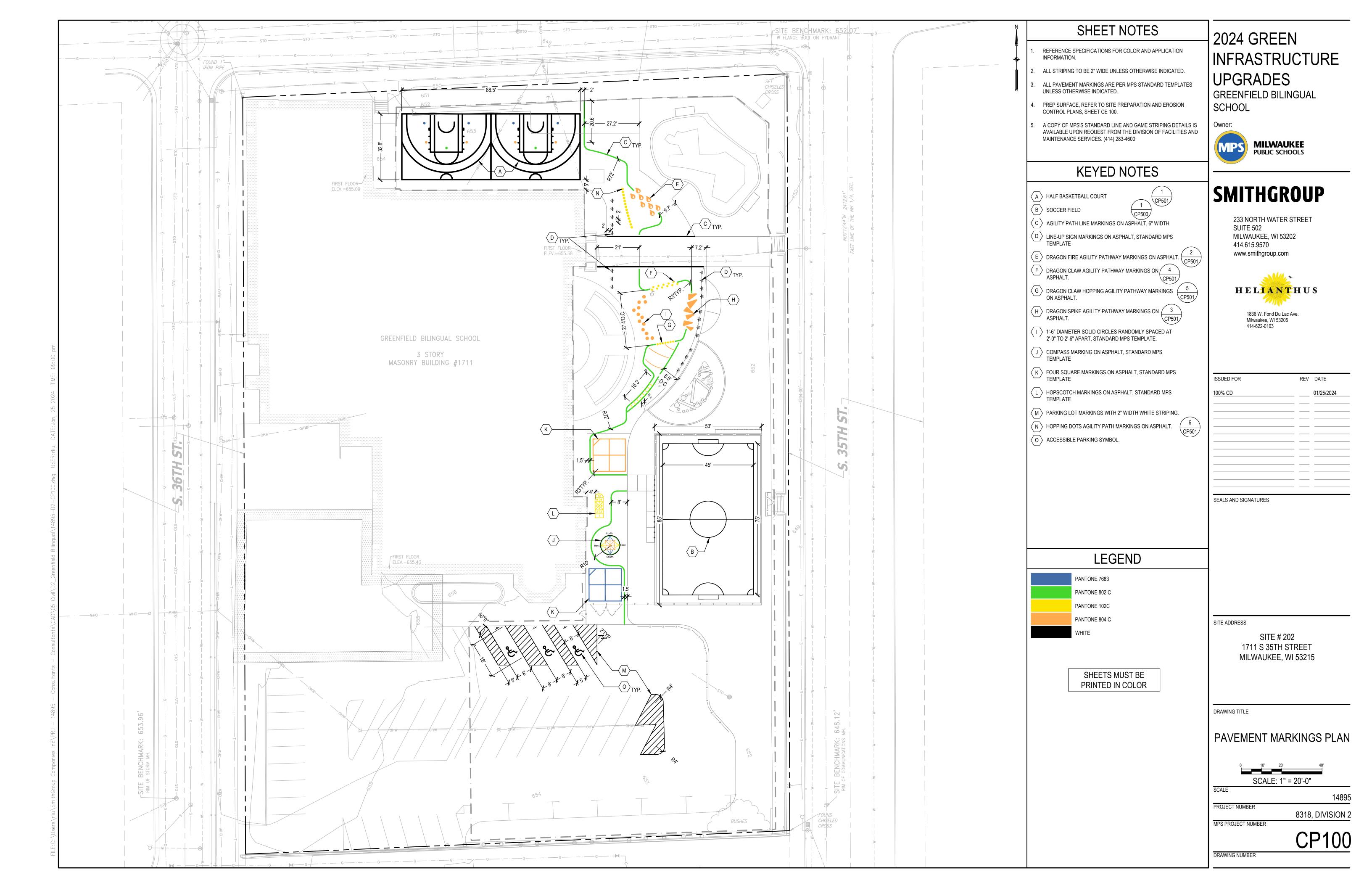
	CV10′
MPS PROJECT NUMBER	8318, DIVISION 2
PROJECT NUMBER	
SCALE	14895









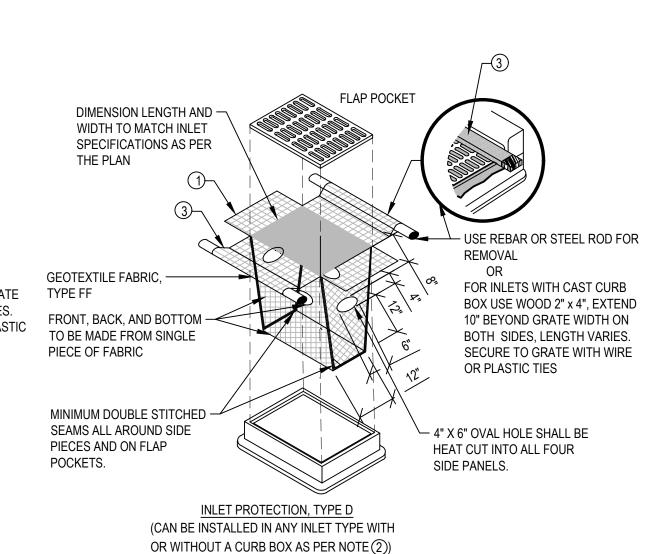


GENERAL NOTES:

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- 1. FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- 3. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2x4.

INLET PROTECTION



INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE. TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

SEDIMENT CONTROL TUBE

SCALE: 1/2"=1'-0"

, 2'-0" OVERLAP

MIN.

PLAN VIEW - FLOW LESS THAN 45° TO

, 2'-0" OVERLAP

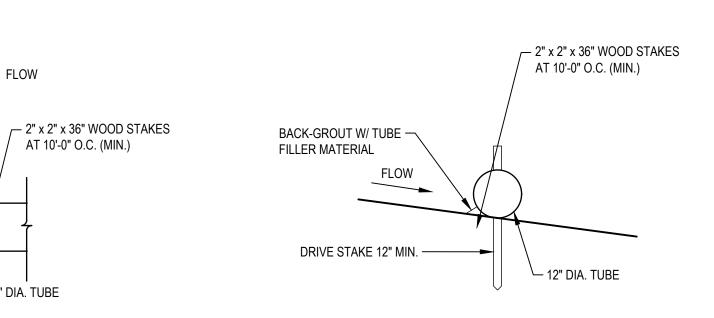
- 2" x 2" x 36" WOOD STAKES ⊁

AT 10'-0" O.C. (MIN.)

PLAN VIEW - FLOW 45 TO 90° TO TUBE

4'-0" (MIN.) HOOK

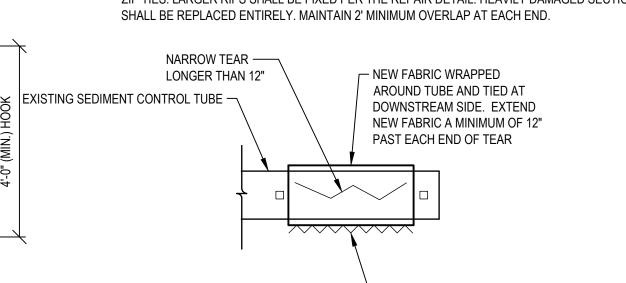
└─ 12" DIA. TUBE



SECTION VIEW

WHEN SEDIMENT CONTROL TUBE IS USED ON A PAVED SURFACE CONCRETE BLOCKS SHALL BE

- USED TO SECURE SEDIMENT CONTROL TUBE IN PLACE OF STAKING. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM BEHIND THE SEDIMENT CONTROL TUBE
- WHEN IT HAS REACHED A HEIGHT EQUAL TO HALF OF THE TUBE HEIGHT. SMALL HOLES OR NARROW RIPS LESS THAN 12" LONG MAY BE STITCHED CLOSED USING PLASTIC ZIP TIES. LARGER RIPS SHALL BE FIXED PER THE REPAIR DETAIL. HEAVILY DAMAGED SECTIONS



- PLASTIC TIES

OR STITCHING

REPAIR DETAIL - TEAR GREATER THAN 12 INCHES

SCALE: 1/2" = 1'-0"

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GREENFIELD BILINGUAL SCHOOL

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SITE ADDRESS

SEALS AND SIGNATURES

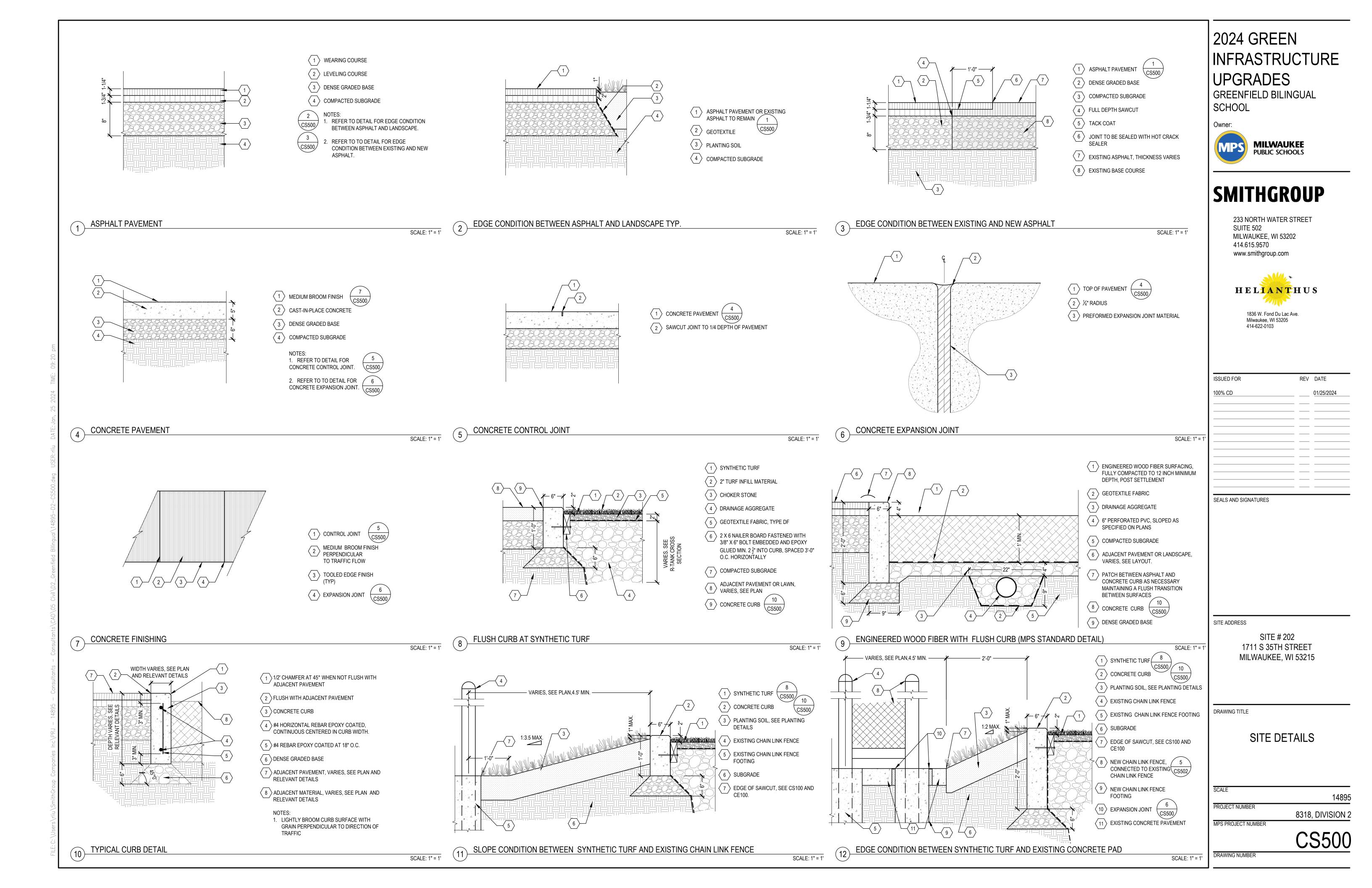
SITE # 202 1711 S 35TH STREET MILWAUKEE, WI 53215

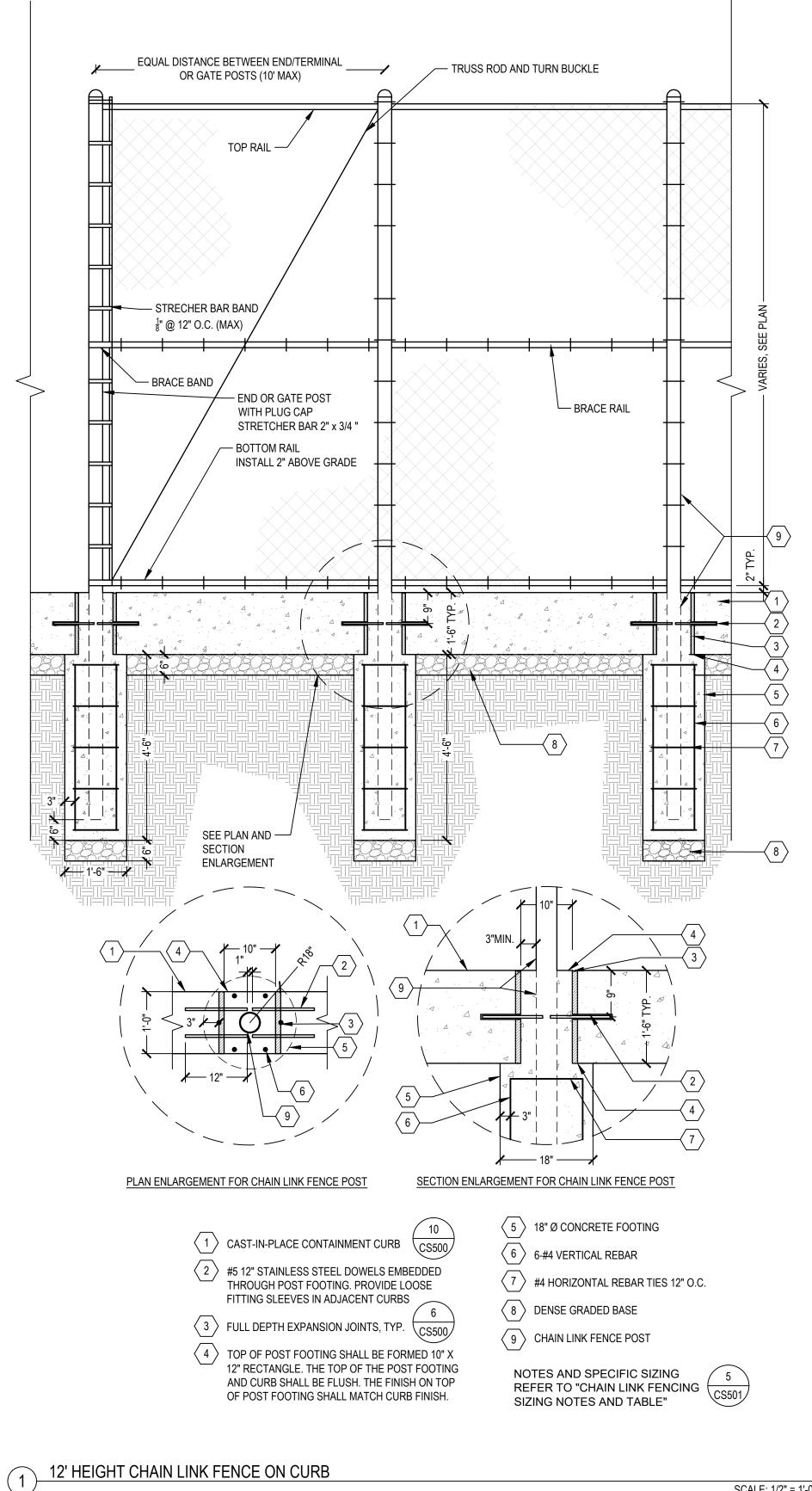
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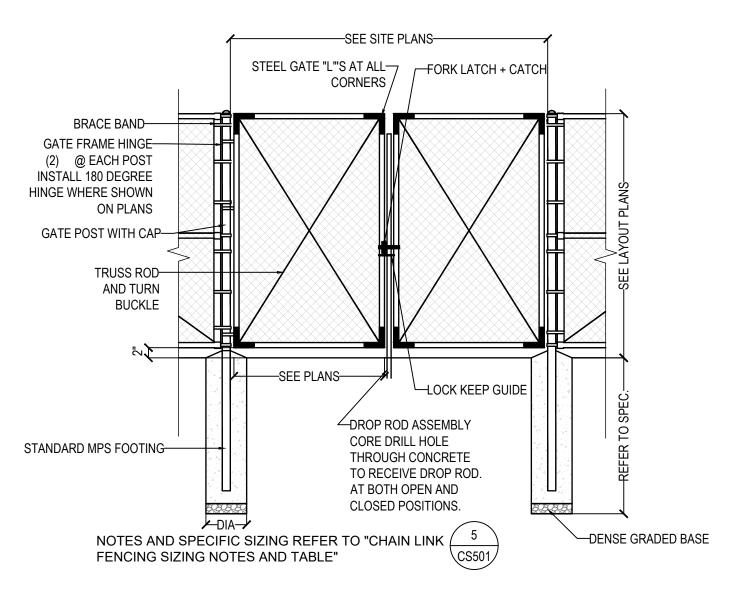
EROSION CONTROL DETAILS

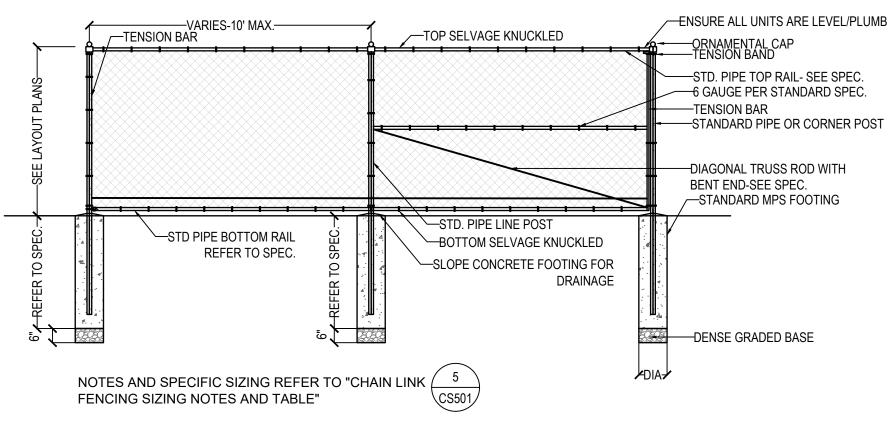
SCALE 8318, DIVISION 2 MPS PROJECT NUMBER

DRAWING TITLE









CHAIN LINK VEHICLE DOUBLE GATE (MPS STANDARD DETAILS)

CHAIN LINK FENCE (MPS STANDARD DETAILS)

NOT TO SCALE

FOOT DEPTH MIN. (") FOOT DIA. MIN. (")

0'-10"

0'-10"

1'-0"

0'-10"

1'-0"

1'-0"

1'-0"

1'-0"

4'-0"

4'-0"

6'-0"

4'-0"

4'-0"

6'-0"

6'-0"

6'-0"

FINAL DEPTH OF FOOTING NOT TO BE LESS THAN 4' OF CONCRETE

5. SLOPE TOP OF FOOTINGS 1-2% PITCHING AWAY FROM POSTS

CHAINLINK FENCE SIZING —SEE SITE PLAN FORK LATCH AND CATCH LOCK KEEPER AND GUIDE POST TYPE HEIGHT (") POST DIA.(") BRACE BAND-< 4' LINE 0'-2" GATE FRAME HINGE-(2) @ EACH POST LINE 4' - 14' 0'-2 1/2" **INSTALL 180 DEGREE** LINE > 14' 3'-0" WHERE SHOWN ON **PLANS** END < 4' 0'-2 1/2" GATE POST WITH POST CAP END 4' - 12' 0'-3" TRUSS ROD-AND TURN BUCĶLE END > 12' 0'-4" GATE 4' - 6' 0'-3" GATE 7' - 12' 0'-4" STANDARD-GATE ^"FOOTING DEPTH" IS INCLUSIVE OF 6" OF STONE 1. COORDINATE LAYOUT AND INSTALLATION WITH CONCRETE WORK. AT BOTTOM OF HOLE. POST DENSE GRADED BASE-LOCATE FENCE POSTS AT CONCRETE SCORE JOINTS AS SHOWN EMBEDMENT TO BE 6" LESS ON PLANS WHERE APPLICABLE. NOTES AND SPECIFIC SIZING REFER TO "CHAIN LINK (5)THAN DIMENSION SHOWN. SUBMIT SHOP DRAWINGS FOR FENCE AS SPECIFIED FENCING SIZING NOTES AND TABLE" SEE SPECIFICATIONS FOR FENCE FOOTING REQUIREMENTS

NOT TO SCALE

CHAIN LINK PEDESTRIAN GATE (MPS STANDARD DETAILS)

*REVIEW AGAINST FIELD

CONDITIONS AND CONFIRM

W/ OWNER DURING SHOP DRAWING REVIEW

CHAIN LINK FENCE SIZING TABLE AND NOTES

2024 GREEN INFRASTRUCTURE ENSURE ALL UNITS ARE LEVEL/PLUMB UPGRADES

GREENFIELD BILINGUAL SCHOOL

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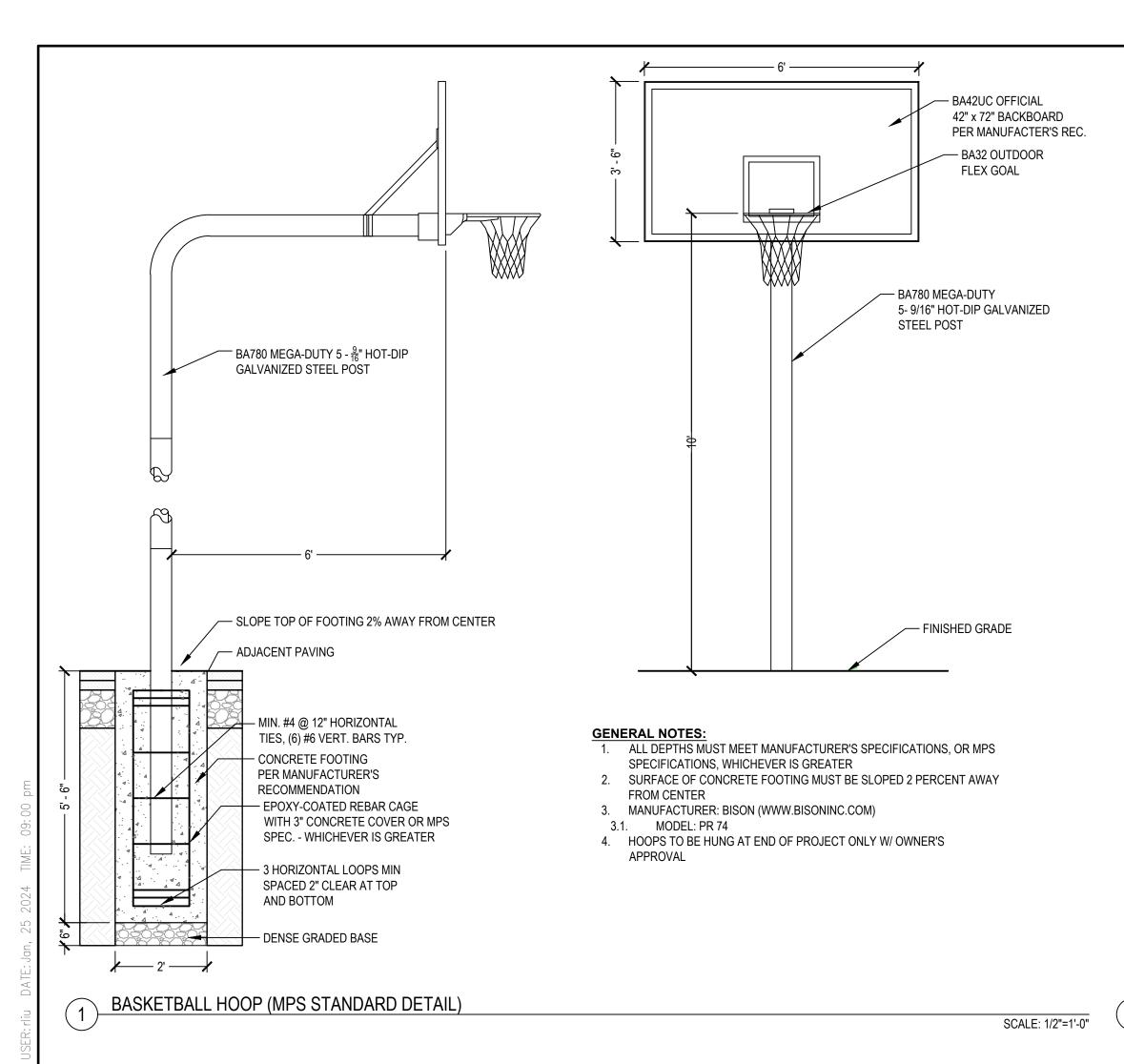
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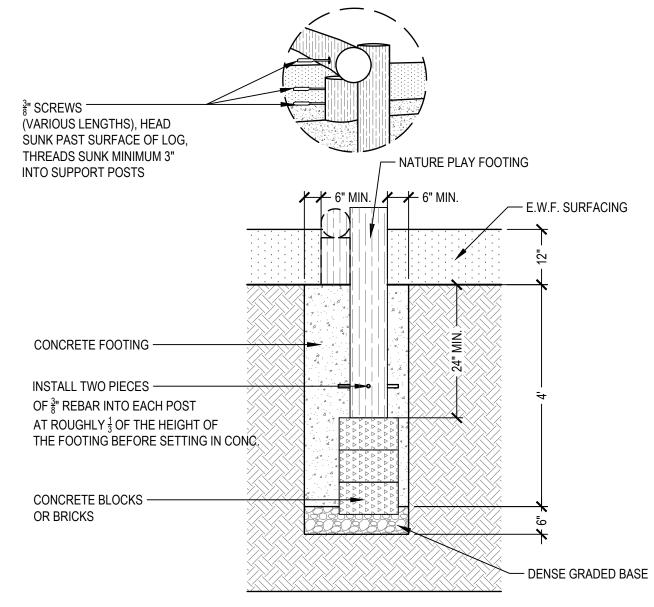
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PROJECT NUMBER	
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	8318, DIVISION
MPS PROJECT NUMBER	
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DRAWING NUMBER

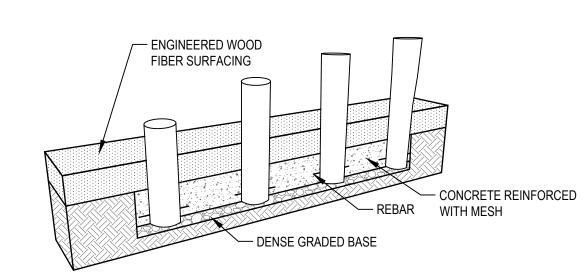
SCALE: 1/2" = 1'-0"

NOT TO SCALE





- ALL DEPTHS MUST MEET MANUFACTURER'S SPECIFICATIONS, OR MPS SPECIFICATIONS, WHICHEVER IS GREATER. 2. MAKE FOOTINGS BETWEEN 18"-24" DEEP AND MAKE SURE THERE IS A MINIMUM OF 6" OF CONCRETE AROUND THE SUPPORT
- 3. ONE SUPPORT POST MUST BE POSITIONED DIRECTLY UNDER THE LOG TO SUPPORT THE WEIGHT, WHILE THE OTHER WILL STABILIZE THE LOG LATERALLY ONCE THE HARDWARE IS INSTALLED.
- 4. INSTALL TWO PIECES OF 3" REBAR INTO EACH SUPPORT POST AT ROUGHLY A THIRD OF THE HEIGHT OF THE FOOTING BEFORE SETTING IN CONCRETE.
- 5. PRE-DRILL A COUNTERSINK HOLE INTO THE LOG DEEP ENOUGH SO THAT WASHER AND SCREW HEAD DO NOT PROTRUDE
- BEYOND THE SURFACE OF THE LOG TO PREVENT POTENTIAL ENTANGLEMENTS HAZARDS. 6. PLEASE NOTE: BLACK LOCUST (ROBINIA) IS EXTREMELY DENSE. NOT DRILLING A PILOT HOLE WILL POTENTIALLY RESULT IN A
- SHEARED LAG SCREW.
- 7. ATTACH LOG TO A SECOND SUPPORT POST WITH 8",10",12" OR LONGER, $\frac{3}{8}$ " STRUCTURAL, COATED LAG SCREW.
- 8. ROUND ALL EXPOSED EDGES AND REMOVE SAW MARKS WITH A SANDER.



- 1. ALL DEPTHS MUST MEET MANUFACTURER'S SPECIFICATIONS, OR MPS SPECIFICATIONS,
- WHICHEVER IS GREATER. STUMP JUMPERS TO BE INSTALLED AS A STRIP FOOTING.
- MAKE TRENCH 15"-16" DEEP; 12" OF CONCRETE AND 3"-4" OF COMPACTED GRAVEL, AND MAKE SURE THERE IS A MINIMUM OF 6" OF CONCRETE AROUND THE SIDES OF THE JUMPERS.
- 4. INSTALL TWO PIECES OF $\frac{2}{8}$ " REBAR INTO EACH SUPPORT JUMPER AT ROUGHLY $\frac{1}{3}$ OF THE HEIGHT OF THE FOOTING BEFORE SETTING IN CONCRETE.
- 5. LENGTH OF STUMP JUMPERS VARIES DEPENDING ON DESIRED HEIGHT AND AGE GROUP, 4 STANDARD LENGTHS ARE PROVIDED; 32", 42", 48", AND 52", BUT THEY CAN BE CUT TO CUSTOM
- 6. STUMP JUMPERS MUST BE A MIN. OF 10" IN DIAMETER.
- STUMP JUMPERS MUST NOT BE HIGHER THAN 20" FROM PROTECTIVE SURFACING WHEN
 - INTENDED FOR 2-5 YEAR OLDS, AND 30" FOR 5-12 YEAR OLDS.
- 8. ROUND ALL EXPOSED EDGES AND REMOVE SAW MARKS WITH A SANDER OR GRINDER. 9. INSTALLER TO PROVIDE PERMANENT HIGH AND LOW MARKS (AT LEAST 3 VERTICALS) FOR
- ENGINEER WOOD FIBER SAFETY SURFACING.





NOT TO SCALE

2024 GREEN

UPGRADES

SCHOOL

Owner:

GREENFIELD BILINGUAL

INFRASTRUCTURE

MILWAUKEE PUBLIC SCHOOLS

SMITHGROUP

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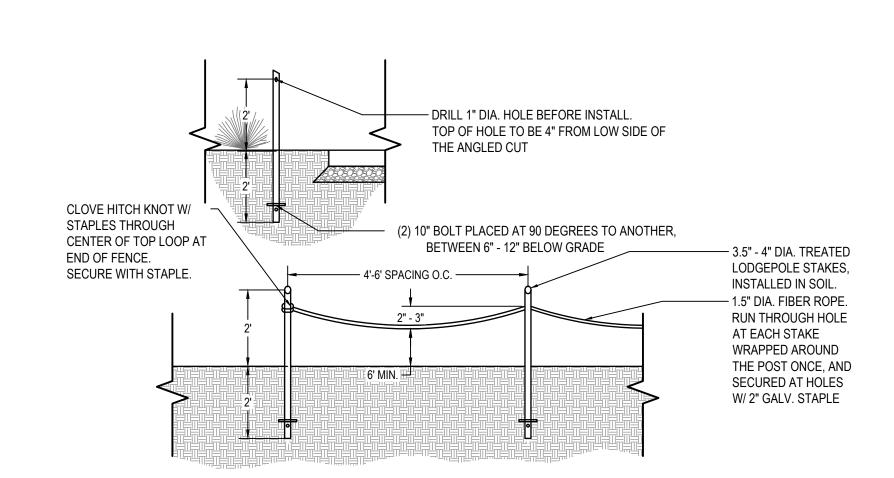
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SUITE 502

414.615.9570



LOW ROPE FENCE (MPS STANDARD DETAIL)

CUT TOP OF POLE AT A 30 DEGREE ANGLE. THE ANGLED SIDE IS TO FACE THE ACTIVE AREA.

2. SAND TOP OF EACH POLE AFTER INSTALL TO REMOVE ANY SPLINTERS. 3. ROPE TO COME WITHIN 3" OF GROUND IF STEPPED ON.

NOT TO SCALE (2) CHAIN LINK FABRIC: KNUCKLED AT TOP AND BOTTOM (3) LINE POST 4 BRACE BAND √ 5

√ TENSION BAR

√ 5

√ TENSION BAR

√ 5

√ TENSION BAR

√ 5

√ TENSION BAR

√ 5

√ TENSION BAR

✓ TEN 6 TENSION BANDS 12" O.C. (TYP.) 7 BOTTOM RAIL $\langle 8 \rangle$ TOP RAIL ⟨ 9 ⟩ CONCRETE FOUNDATION $\langle 10 \rangle$ #5 VERTICAL BAR $\langle 11 \rangle$ #3 HORIZONTAL BAR @ 12" SPACING (12) GATE FRAME HINGE (13) FORK LATCH AND CATH (14) LOCK KEEPER AND GUIDE 15 TRUSS ROD AND TURN BUCKLE 16 STEEL GATE "L"S AT ALL NOTES AND SPECIFIC SIZING REFER TO "CHAIN LINK FENCING SIZING NOTES AND TABLE" CS501/ **├**─ DIA. **─**

10' HEIGHT CHAIN LINK FENCE WITH 4' WIDTH PEDESTRIAN GATE

DRAWING TITLE SITE DETAILS

> SCALE PROJECT NUMBER 8318, DIVISION 2 MPS PROJECT NUMBER

SITE # 202

1711 S 35TH STREET

MILWAUKEE, WI 53215

DRAWING NUMBER

NOT TO SCALE

SCALE: 1/2"=1'-0"

BEDDING AND INITIAL BACKFILL:

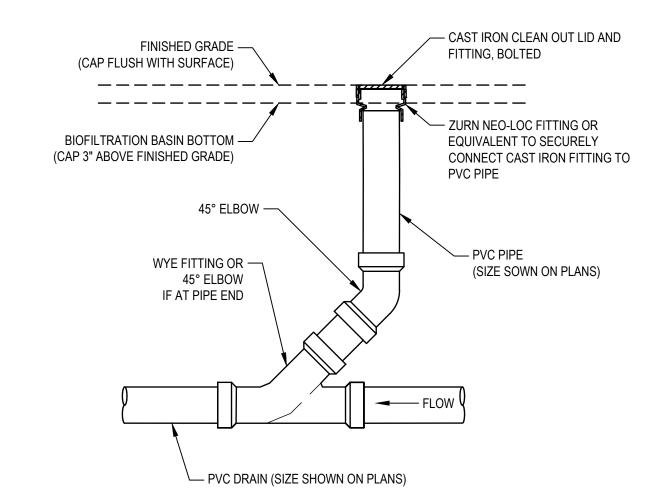
BACKFILL MATERIAL CONTAINING NO STONES LARGER THAN 3" AND NO HARD OR FROZEN LUMPS OF EARTH, PER SPECIFICATIONS

CRUSHED STONE BEDDING*

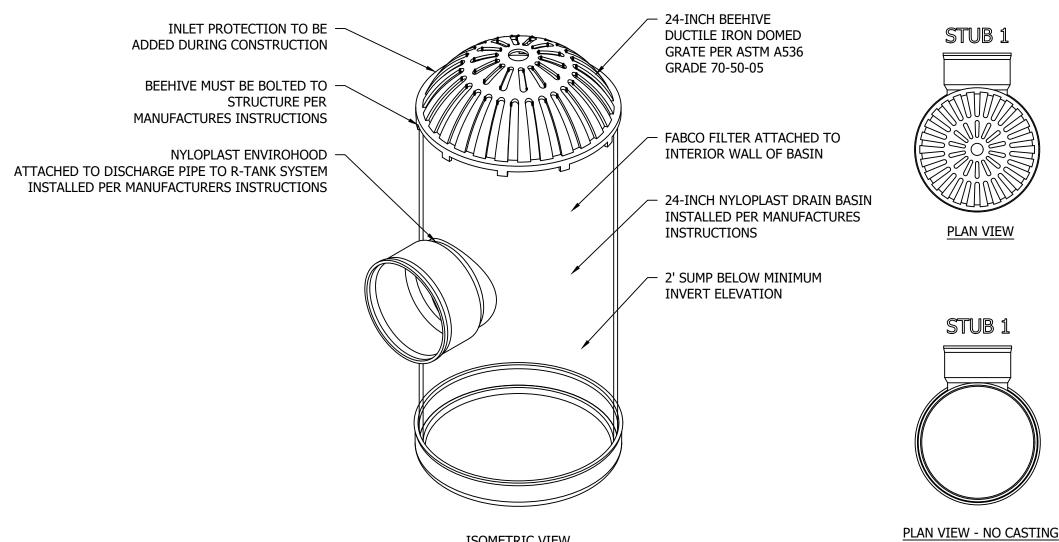
* BEDDING SAND OR CRUSHED STONE SCREENINGS SHALL BE USED FOR DUCTILE IRON PIPE

PIPE BEDDING

SCALE: 1" = 1'-0"



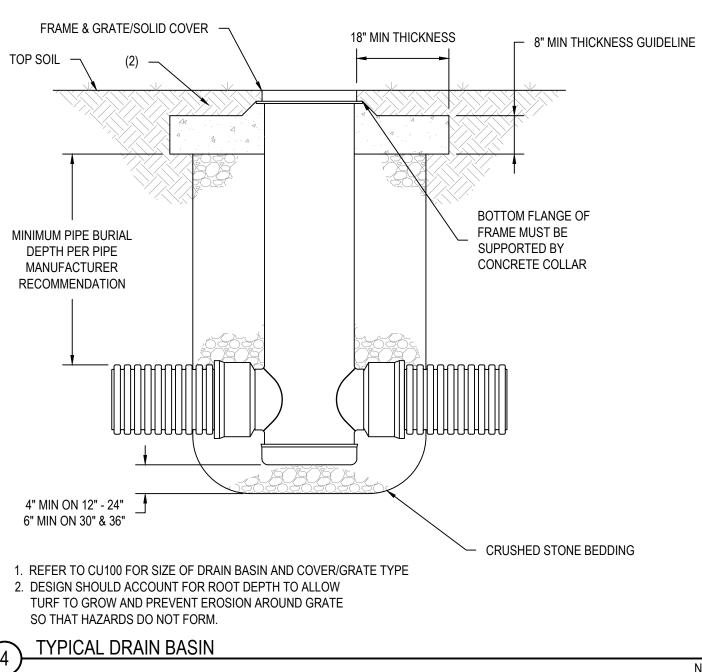
UNDERDRAIN CLEANOUT SCALE: 3/4" = 1'-0"



ISOMETRIC VIEW

STANDPIPE WITH BEEHIVE GRATE (CB1)

SCALE: 1" = 1'-0"



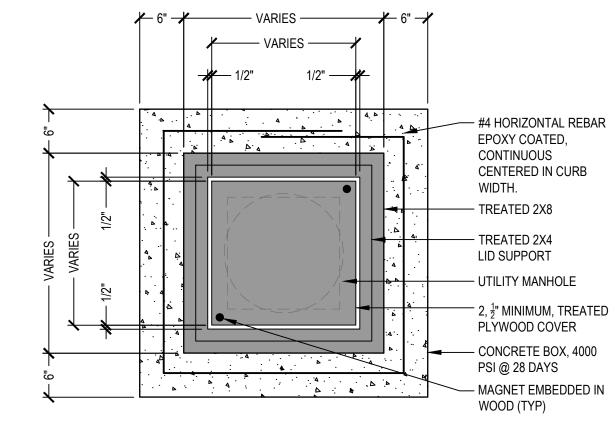
TYPICAL DRAIN BASIN

CONCRETE BOX AND — VARIES — WOOD COVER PER TURF AND INFILL MIX — MANUFACTURERS 1/2" — 🚜 RECOMMENDATION TREATED 2X8 FORM TO -REMAIN FLUSH WITH TOP - #4 HORIZONTAL REBAR 3" MIN 3" MIN +/X OF CONCRETE. EPOXY COATED, USE STAINLESS STEEL CONTINUOUS. FASTENERS @ 6" O.C. - STONE BASE TREATED 2X4 LID SUPPORT USE STAINLESS STEEL $^{-}$ 2, $\frac{1}{2}$ " MINIMUM, TREATED SCREWS TO ATTACHED TO PLYWOOD COVER 2X8 @ 9" O.C. - PLACE MAGNETS IN 2 CONCRETE BOX, 4000 — OPPOSING CORNERS PSI @28 DAYS OF EACH LID MAINTENANCE PORT -TURF MAINTENANCE COVER PROFILE VIEW

— VARIES — 6" —

- ADHERE TURF TO

SCALE: 1" = 1'-0"



(6) TURF MAINTENANCE COVER PLAN VIEW

SCALE: 1" = 1'-0"

2024 GREEN INFRASTRUCTURE UPGRADES

GREENFIELD BILINGUAL SCHOOL

Owner:

PLAN VIEW



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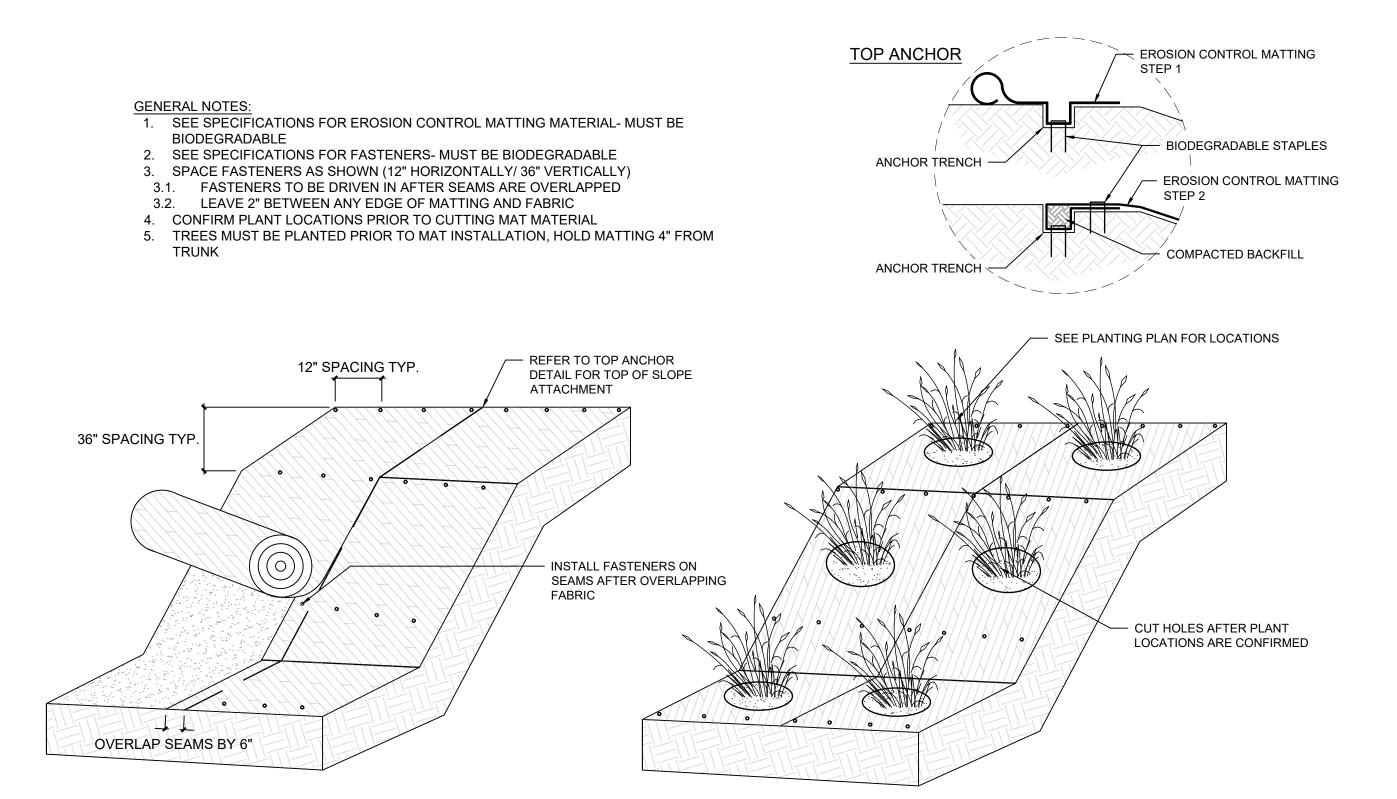
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DRAWING TITLE

DRAWING NUMBER

UTILITY DETAILS

SCALE	1489
PROJECT NUMBER	8318, DIVISION
MPS PROJECT NUMBER	CU500



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ISSUED FOR	REV	DATE
100% CD		01/25/2024

SITE ADDRESS

SEALS AND SIGNATURES

SCALE: 1" = 1'

SITE # 202 1711 S 35TH STREET MILWAUKEE, WI 53215

DRAWING TITLE

DRAWING NUMBER

UTILITY DETAILS

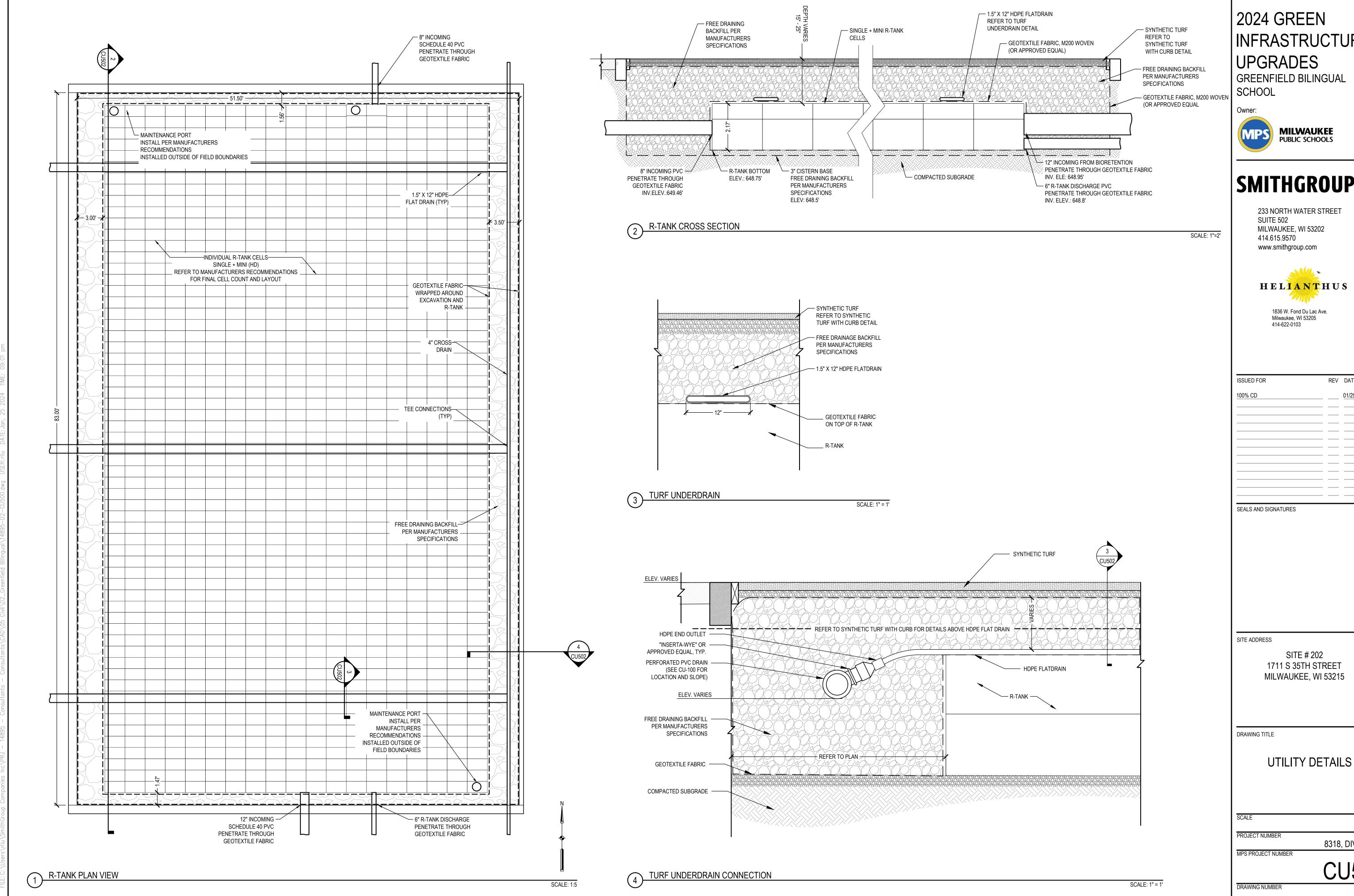
	CU50
MPS PROJECT NUMBER	
	8318, DIVISION
PROJECT NUMBER	
SCALE	148

(

EROSION CONTROL MATTING ON SLOPE (MPS STANDARD)

BIORETENTION CELL

ITC



INFRASTRUCTURE



SMITHGROUP

233 NORTH WATER STREET

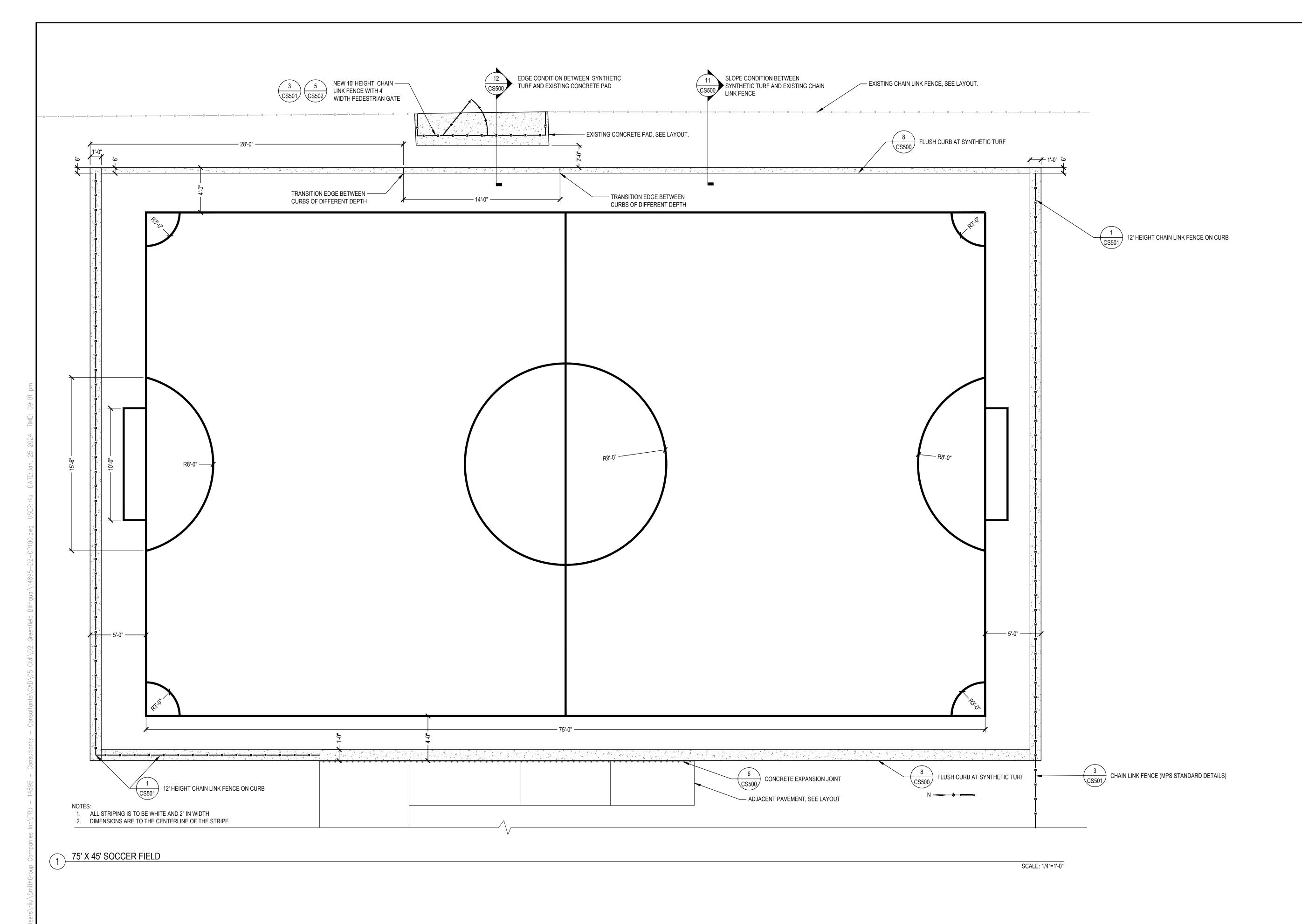


ISSUED FOR	REV	DATE
100% CD		01/25/2024

1711 S 35TH STREET MILWAUKEE, WI 53215

SCALE	14895
PROJECT NUMBER	8318, DIVISION 2
MPS PROJECT NUMBER	
	OIIFOO

CU502



2024 GREEN INFRASTRUCTURE UPGRADES

GREENFIELD BILINGUAL SCHOOL



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KEV	DATE
	01/25/2024
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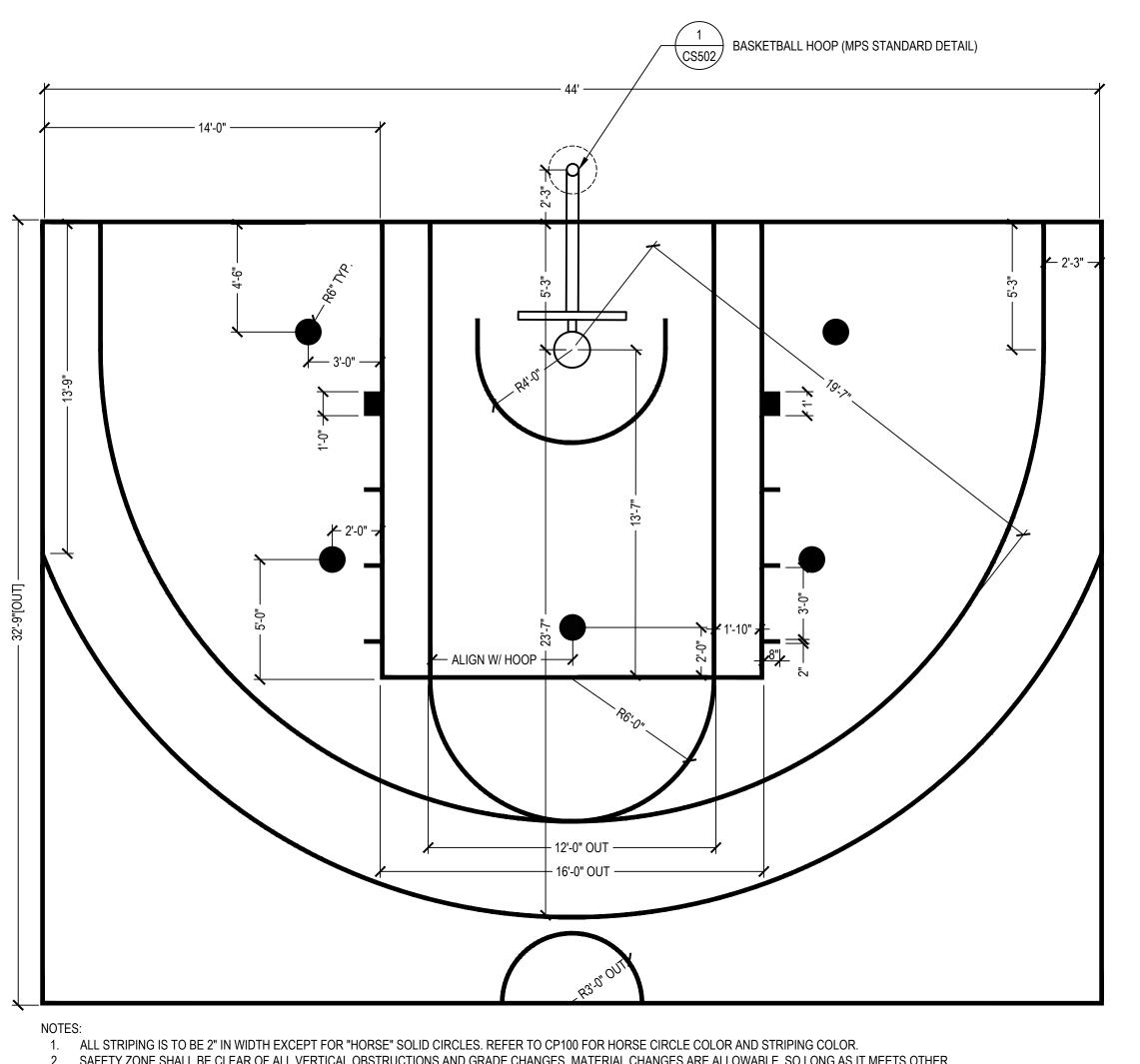
SITE ADDRESS

SITE # 202 1711 S 35TH STREET MILWAUKEE, WI 53215

DRAWING TITLE

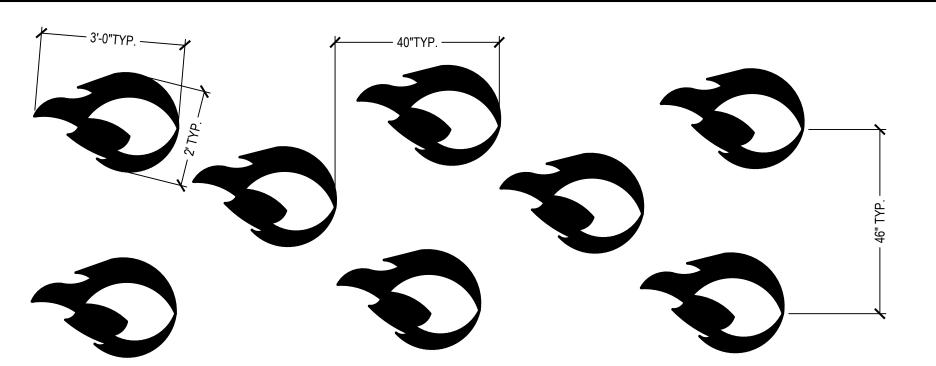
PAVEMENT MARKING DETAILS

14895
8318, DIVISION 2
CP500
01 000



→ HALF BASKETBALL COURT

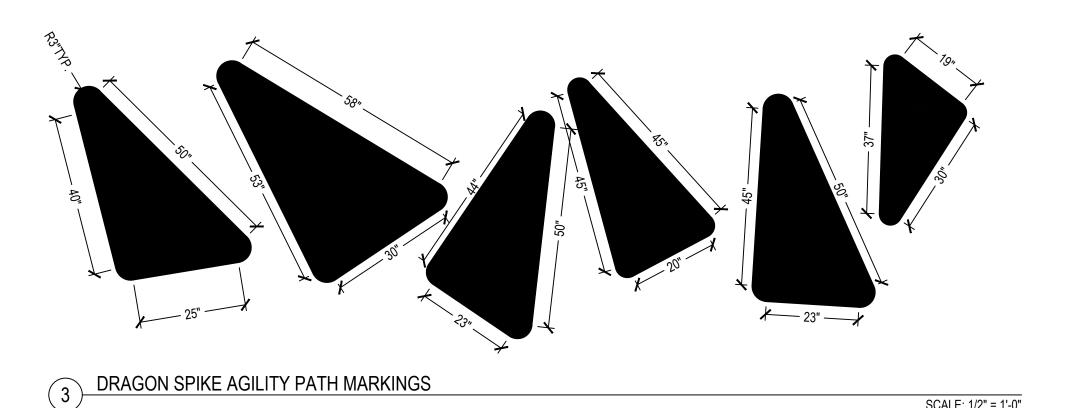
- SAFETY ZONE DIMENSIONS SHOULD REFER TO LAYOUT SHEET, CS100
 DIMENSIONS INSIDE OF STRIPING UNLESS INDICATED OTHERWISE BY "OUT" IN THE ANNOTATION.
- 5. LENGTH OF HOOP GOOSENECK TO BE 4'-0" TO 6'-0" AND POST LOCATION UPDATED ACCORDINGLY.



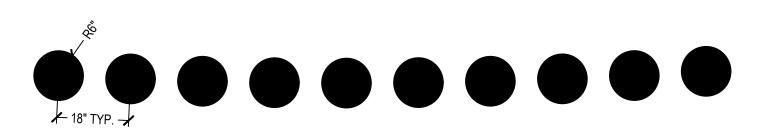
DRAGON FIRE AGILITY PATH MARKINGS

SCALE: 1/2" = 1'-0"

SCALE: 1/2" = 1'-0"



DRAGON CLAW AGILITY PATH MARKINGS



6 HOPPING DOTS MARKINGS

SCALE: 1/2' = 1'-0"

2024 GREEN INFRASTRUCTURE UPGRADES

GREENFIELD BILINGUAL SCHOOL

Owner:



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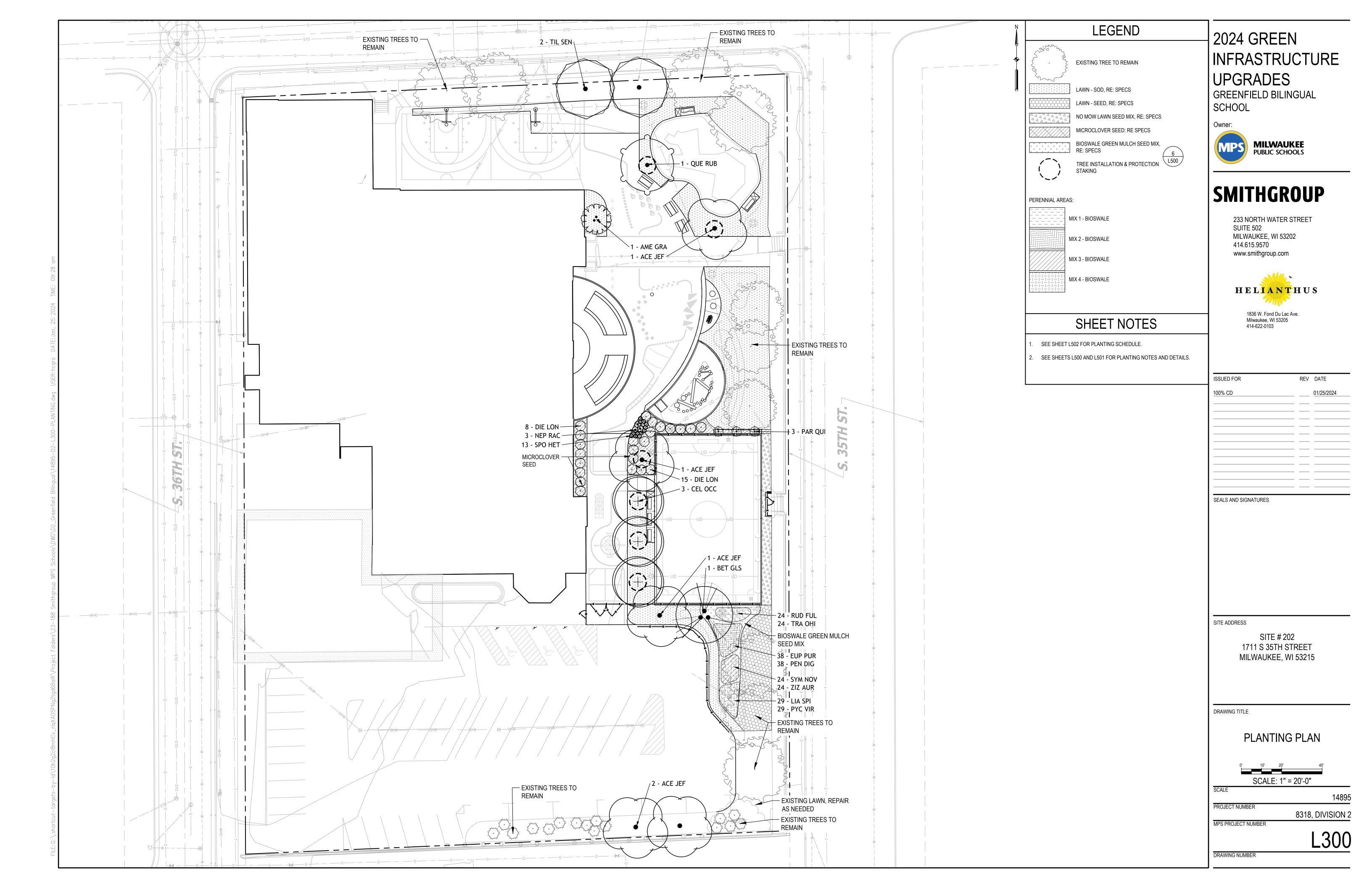
SITE ADDRESS

SITE # 202 1711 S 35TH STREET MILWAUKEE, WI 53215

DRAWING TITLE

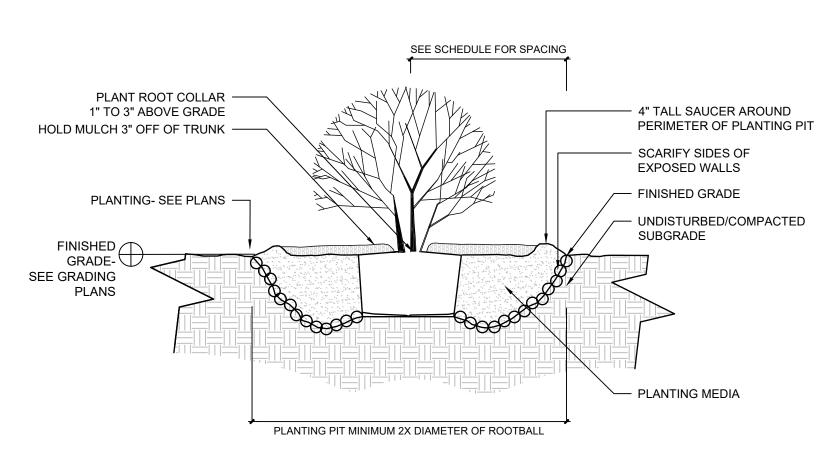
PAVEMENT MARKING **DETAILS**

SCALE	
	14895
PROJECT NUMBER	
	8318, DIVISION 2
MPS PROJECT NUMBER	
	CP501
	01 00 1
DRAWING NUMBER	



PLANTING NOTES

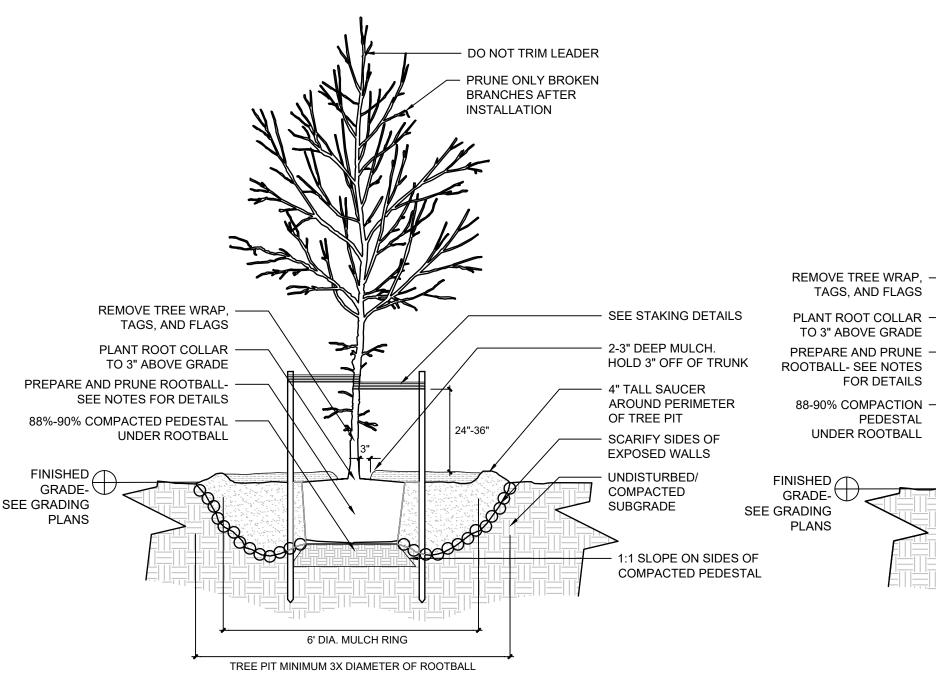
- CONTRACTOR SHALL INSPECT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS RELATED TO THE NATURE AND SCOPE OF WORK.
- 2. CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND AND ABOVE GROUND UTILITIES AND PROVIDE THE NECESSARY PROTECTION BEFORE CONSTRUCTION BEGINS.
- CONTRACTOR SHALL VERIFY PLAN LAYOUT AND DIMENSIONS SHOWN AND BRING TO THE ATTENTION OF THE PRIME CONSULTANT DISCREPANCIES WHICH MAY COMPROMISE THE DESIGN AND/OR INTENT OF THE PROJECT'S LAYOUT.
- 4. CONTRACTOR SHALL ASSURE COMPLIANCE WITH APPLICABLE CODES AND REGULATIONS GOVERNING THE WORK AND/OR MATERIALS SUPPLIED.
- CONTRACTOR SHALL PROTECT EXISTING ROADS, CURBS/GUTTERS, TRAILS, SIDEWALKS, TREES, LAWNS AND OTHER SITE ELEMENTS DURING CONSTRUCTION OPERATIONS. DAMAGE TO SAME SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR TO MAINTAIN EXISTING GRADE WITHIN THE TREE CANOPY LINE (MINIMUM) OF TREES TO BE PRESERVED AND PROTECTED UNLESS OTHERWISE INDICATED ON THE PLANS. REFERENCE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION INFORMATION.
- NO PRUNING SHALL BE PERFORMED ON TREES TO BE PRESERVED EXCEPT BY APPROVED ARBORIST.
- 8. NO EQUIPMENT SHALL OPERATE INSIDE THE DRIP LINE (AT MINIMUM) OF TREES TO BE PRESERVED.
- HAND WORK ONLY AND NO MACHINERY OR MATERIAL STORAGE WITHIN DRIP LINE OF TREES TO BE PRESERVED.
- 10. EXISTING TREES TO REMAIN SHALL BE FERTILIZED AND PRUNED TO REMOVE DEAD WOOD, DAMAGED, AND/OR RUBBING BRANCHES.
- 11. CONTRACTOR SHALL COORDINATE THE PHASES OF CONSTRUCTION AND PLANTING INSTALLATION WITH OTHER CONTRACTORS WORKING ON THE SITE.
- 12. CONTRACTOR TO COMPLETE SOIL PREPARATION PER SPECIFICATIONS.
- 13. CONTRACTOR TO SUPPLY AND INSTALL SOD, TREES, SHRUBS, PERENNIALS, GRASSES, PLUGS, AND GROUNDCOVERS.
- 14. PROPOSED PLANT MATERIAL SHALL COMPLY WITH THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1 UNLESS NOTED OTHERWISE. DECIDUOUS SHRUBS SHALL HAVE AT LEAST 5 CANES AT THE SPECIFIED HEIGHT. ORNAMENTAL TREES SHALL HAVE NO "V" CROTCHES AND SHALL BEGIN BRANCHING NO LOWER THAN 3 FEET ABOVE ROOT BALL. SHADE TREES SHALL BEGIN BRANCHING NO LOWER THAN 6' ABOVE FINISHED GRADE.
- 15. ALL PLANTS AND TREES SHALL BE PLANTED PER DETAILS AND SPECS.
- 16. ALL TREES, AS IDENTIFIED ON THE PLANS. SHALL BE STAKED AS SHOWN ON THE PLANTING DETAILS UNLESS NOTED OTHERWISE ON THE PLANS.
- 17. NO PLANTS SHALL BE INSTALLED UNTIL FINAL GRADES AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- 18. WHEN QUANTITIES ARE LISTED THEY ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. ALL COUNTS MUST BE VERIFIED BY THE CONTRACTOR. IN THE CASE OF A DISCREPANCY BETWEEN THE LEGEND AND THE PLAN, PLANTS INDICATED ON THE PLAN SHALL SUPERCEDE QUANTITIES LISTED IN THE LEGEND. SPECIFICATIONS AND DETAILS TAKE PRECEDENCE OVER NOTES.
- 19. NO PLANT MATERIAL SUBSTITUTIONS WILL BE ACCEPTED UNLESS APPROVAL IS REQUESTED OF THE LANDSCAPE ARCHITECT BY THE LANDSCAPE CONTRACTOR PRIOR TO THE SUBMISSION OF BID AND/OR QUOTATION.
- 20. ADJUSTMENTS IN LOCATION OF PROPOSED PLANT MATERIAL MAY BE NEEDED IN FIELD. PRIME CONSULTANT MUST BE NOTIFIED PRIOR TO THE ADJUSTMENT OF PLANTS.
- 21. CONTRACTOR SHALL VERIFY PLANT QUANTITIES SHOWN ON THE PLAN AND PROVIDE A LIST TO THE CLIENT IDENTIFYING THE SPECIES AND SIZES TO BE USED THROUGHOUT THE PROJECT. THE LANDSCAPE ARCHITECT AND THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY SUBSTANDARD PLANT MATERIAL. REJECTED MATERIAL SHALL BE REMOVED FROM THE PROJECT SITE IMMEDIATELY.



GENERAL NOTES:

- PLANTING SPECIFICATIONS SHALL REFER TO ANY SOIL
- AMENDMENTS REQUIRED PLANTS ARE TO THOROUGHLY WATERED AFTER TRANSPLANTING
- IS COMPLETED- SEE SPECIFICATION FOR FULL WATERING NOTES
- REMOVE BURLAP, WIRE CAGE, AND PLASTIC CONTAINERS (SEE ROOTBALL PREPARATION DETAIL)
- 4. THIS TREE PLANTING DETAIL MEETS THE REQUIREMENTS OUTLINED IN THE WISCONSIN DNR "Developing Planting Specifications'

SHRUB PLANTING NOT TO SCALE

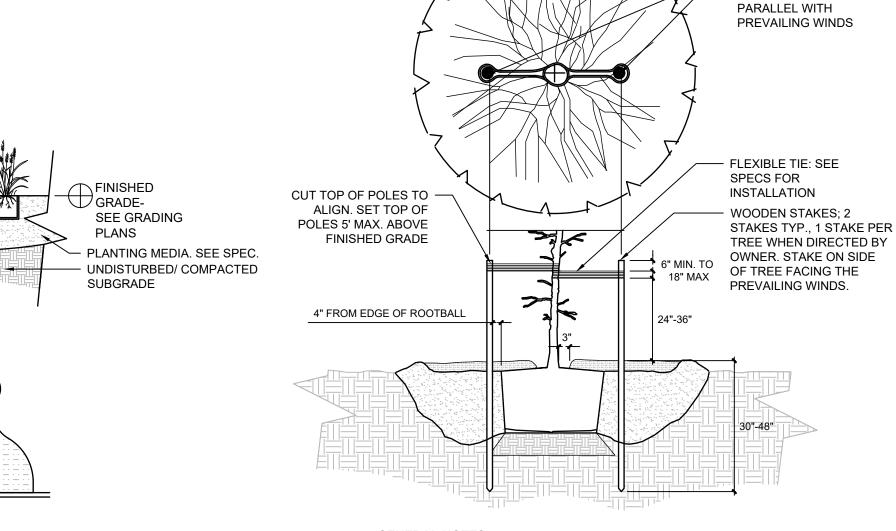


- PLANTING SPECIFICATIONS SHALL REFER TO ANY SOIL AMENDMENTS REQUIRED
- 2. USE TYPICAL TREE STAKING DETAIL UNLESS DESIGNATED AS "TREE INSTALLATION AND PROTECTION STAKING" ON PLANS 3. PLANTS ARE TO THOROUGHLY WATERED AFTER TRANSPLANTING IS COMPLETED-
- SEE SPECIFICATION FOR FULL WATERING NOTES
- 4. REMOVE BURLAP, WIRE CAGE, AND PLASTIC CONTAINERS (SEE ROOTBALL PREPARATION DETAIL)
- 5. THIS TREE PLANTING DETAIL MEETS THE REQUIREMENTS OUTLINED IN THE
- WISCONSIN DNR "Developing Planting Specifications' (2006)
- 6. USE EXISTING SOIL REMOVED FROM HOLE AS BACK FILL. USE 2/3 PARTS EXISTING SOIL AND 1/3 IMPORTED TOPSOIL. FERTILIZE WITH A 20-10-5 TREE PLANTING TABLET PER THE MANUFACTURER'S RECOMMENDED RATES. DO NOT PLACE TABLETS IN THE BOTTOM OF THE HOLE

CONIFEROUS TREE PLANTING

BOTTOM OF THE HOLE

PREPARATION DETAIL)



GENERAL NOTES:

- 1. REFER TO TREE PLANTING DETAILS FOR TRANSPLANTING AND PREPARATION
- 2. USE TYPICAL TREE STAKING DETAIL UNLESS DESIGNATED AS "TREE INSTALLATION

LODGEPOLE PINE

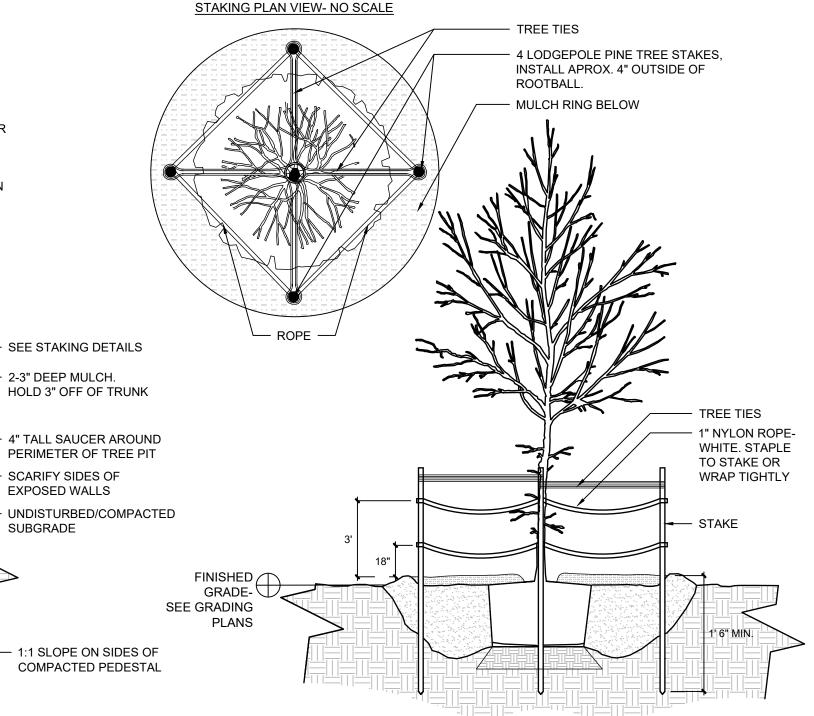
STAKING TO BE

- AND PROTECTION STAKING" ON PLANS STAKES SHALL BE LEVEL WITH ANOTHER
- SEE SPECIFICATION FOR STAKING REMOVAL INFORMATION

TREE STAKING PLAN VIEW

- DO NOT OVERLY TIGHTEN TIES
- 6. THIS TREE PLANTING DETAIL MEETS THE REQUIREMENTS OUTLINED IN THE WISCONSIN DNR "Developing Planting Specifications' (2006)
- 7. LODGEPOLES TO BE DRIVEN TO DEPTH SUFFICIENT TO WITHSTAND MODERATE FORCE BY AN ADULT PUSHING ON ANY SIDE WITHOUT DEFLECTING MORE THAN 4"





- 1. REFER TO TREE PLANTING DETAILS FOR TRANSPLANTING AND PREPARATION **PROCEDURES**
- 2. USE TYPICAL TREE STAKING DETAIL UNLESS DESIGNATED AS "TREE
- INSTALLATION AND PROTECTION STAKING" ON PLANS
- 3. STAKES SHALL BE LEVEL WITH ANOTHER 4. SEE SPECIFICATION FOR STAKING REMOVAL INFORMATION
- 5. DO NOT OVERLY TIGHTEN NYLON ROPE, 1-4" OF SLACK IS PREFERRED 6. THIS TREE PLANTING DETAIL MEETS THE REQUIREMENTS OUTLINED IN THE
- WISCONSIN DNR "Developing Planting Specifications' (2006) 7. LODGEPOLES TO BE DRIVEN TO DEPTH SUFFICIENT TO WITHSTAND
- MODERATE FORCE BY AN ADULT PUSHING ON ANY SIDE WITHOUT DEFLECTING MORE THAN 4"



2024 GREEN INFRASTRUCTURE UPGRADES GREENFIELD BILINGUAL

SCHOOL



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ISSUED FOR REV DATE 100% CD 01/25/2024 SEALS AND SIGNATURES

SITE ADDRESS

SITE # 202 1711 S 35TH STREET MILWAUKEE, WI 53215

DRAWING TITLE

PLANTING NOTES & DETAILS

SCALE PROJECT NUMBER 8318, DIVISION 2 MPS PROJECT NUMBER

DECIDUOUS TREE PLANTING

NOT TO SCALE

NOT TO SCALE

EQUIDISTANT

PLANTS NEXT TO HARDSCAPE TO BE PLANTED AT DISTANCE

SHOWN ON SCHEDULE

EROSION MATTING

PLUG PLANTING

THOROUGHLY WATERING

GENERAL NOTES:

SPACING

NOT TO SCALE

SECTION VIEW

PLAN VIEW

1. IF PLUGS ARE TO BE INSTALLED IN EROSION MATTING- CUT MATTING

PRIOR TO PLANTING. SEEDING TO OCCUR PRIOR TO INSTALLING

DO NOT TRIM LEADER

AFTER INSTALLATION

2-3" DEEP MULCH.

SCARIFY SIDES OF

EXPOSED WALLS

SUBGRADE

PRUNE ONLY **BROKEN BRANCHES**

BELOW LOWEST

PLANTING SPECIFICATIONS SHALL REFER TO ANY SOIL AMENDMENTS REQUIRED

2. USE TYPICAL TREE STAKING DETAIL UNLESS DESIGNATED AS "TREE INSTALLATION

3. PLANTS ARE TO THOROUGHLY WATERED AFTER TRANSPLANTING IS COMPLETED-

6. USE EXISTING SOIL REMOVED FROM HOLE AS BACK FILL. USE 2/3 PARTS EXISTING

SOIL AND 1/3 IMPORTED TOPSOIL. FERTILIZE WITH A 20-10-5 TREE PLANTING TABLET

PER THE MANUFACTURER'S RECOMMENDED RATES. DO NOT PLACE TABLETS IN THE

4. REMOVE BURLAP, WIRE CAGE, AND PLASTIC CONTAINERS (SEE ROOTBALL

5. THIS TREE PLANTING DETAIL MEETS THE REQUIREMENTS OUTLINED IN THE

BRANCHES /

2. SEE PLANTING SCHEDULE FOR GROUNDCOVER SPECIES AND

3. SETTLE SOIL AROUND ROOT BALL AROUND EACH SPECIMEN BY

CROWN/ ROOT FLARE

TO FINISHED ELEV.

ROOTBALL BEFORE

OF PLANT TO BE EQUAL

LOOSEN OUTER 25% OF

PLANTING CONTAINER

PLANTS. REMOVE ANY

ENCIRCLING ROOTS.

PLANTS TO BE SPACED

TRIANGULARLY UNLESS

PLANT CROWNS MUST

MAINTAIN 6" CLEARANCE

FROM ANY HARDSCAPE EDGE

FOR DETAILS

PEDESTAL

OTHERWISE NOTED BY PLANS

6' DIA. MULCH RING

TREE PIT MINIMUM 3X DIAMETER OF ROOTBALL

AND PROTECTION STAKING" ON PLANS

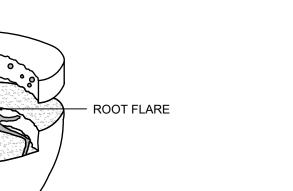
SEE SPECIFICATION FOR FULL WATERING NOTES

WISCONSIN DNR "Developing Planting Specifications' (2006)

NOT TO SCALE

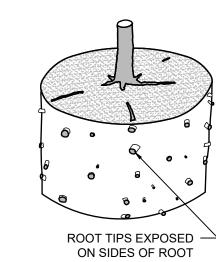
DRAWING NUMBER

REMOVE STRUCTURAL ROOTS - PEEL BACK BURLAP AND FULLY OUTSIDE OF BURLAP. ROOTS REMOVE OFF SIDES. LESS THAN $\frac{1}{4}$ " IN DIAMETER **CUT WIRE CAGE** MAY REMAIN AND REMOVE OFF SIDES. **GENERAL NOTES:** 2. FOR CONTAINER PLANTS, PLASTIC CONTAINERS MUST BE FULLY REMOVED. <u>DNR NOTES:</u> THIS PLANTING DETAIL CONFORMS TO TREE PLANTING GUIDELINES AS SPECIFIED IN DNR DOCUMENT 'DEVELOPING PLANTING SPECIFICATIONS' REVISED 10.25. ROOT BALL PREPARATION NOT TO SCALE SHAVE SIDES OF - SHAVE ROOT BALL HERE ROOTBALL $\frac{1}{2}$ " - 1". TO REMOVE ALL ROOTS GROWING ON PERIPHERY 1- SHAVING TO BE CONDUCTED USING A CLEAN, SHARP BLADE OR HANDSAW. 2- BLADE MUST BE CLEANED AND STERILIZED BETWEEN ROOT SHAVINGS/ 3- ROOT PRUNING ONLY TO OCCUR AT NURSERY OR IMMEDIATELY PRIOR TO TRANSPLANTING TO FINAL 5- FOR PLANT POTS UNDER 15 GAL., AGITATE ROOTS PRIOR TO PLANTING **ROOT BALL PRUNING** NOT TO SCALE APPLY 2-3" OF IMPORTED -MEDIA AFTER FIRST TILLING SEE SPECIFICATIONS EXISTING GRADE AFTER -FIRST TILLING SECOND TILLING- LIGHTLY TILL EXISTING SOIL -AND IMPORTED MEDIA TOGETHER. APPLY CHEMICAL AMENDMENTS AS NEEDED AFTERWARDS - SEE SPECIFICATIONS. **GENERAL NOTES:** MULCHING THEN COVER SURFACE WITH FABRIC OR MATTING
2. SEE SPECIFICATIONS FOR INFORMATION ON CHEMICAL AMENDMENT AND IMPORTED 4. ALL PLANTS ARE TO BE INSTALLED AFTER SOIL AMENDMENTS **SOIL AMENDMENT** NOT TO SCALE



- GENTLY REMOVE SOIL OFF OF ROOTBALL SO THAT THE TOP OF THE ROOT FLARE IS EXPOSED.

ALL PLANTS MUST HAVE BURLAP AND WIRE CAGE REMOVED FROM THE SIDES OF THE ROOTBALL.

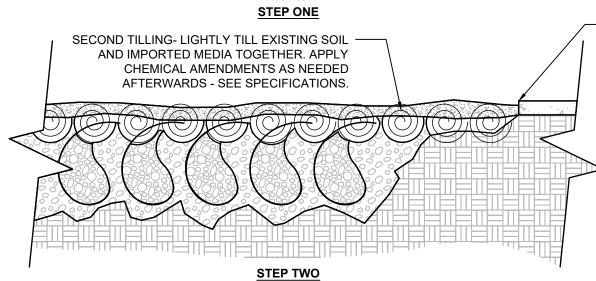


BALL. ALL ROOTS **GROWING AROUND** SIDES TO BE REMOVED

4- ONLY SHAVE 15 GAL. CONTAINER PLANTS AND LARGER, INCLUDING BALLED AND BURLAPPED PLANTS.

<u>DNR NOTES:</u> THIS PLANTING DETAIL CONFORMS TO TREE PLANTING GUIDELINES AS SPECIFIED IN DNR DOCUMENT 'DEVELOPING PLANTING SPECIFICATIONS' REVISED 10.25.

FIRST TILLING- BREAK UP SOIL USING A BACKHOE OR TILLER.



- FINISHED GRADE TO BE AT GRADE WITH ADJACENT PAVEMENT IF NO FURTHER TREATMENT REQUIRED. IF MULCHING, THEN FINISHED GRADE IS TO BE 3" BELOW ADJACENT PAVEMENT.

1. IF SOILS ARE AMENDED MORE THAN 1 WEEK PRIOR TO TRANSPLANTING OR

- 3. AREAS OF CHEMICAL AMENDMENT AND IMPORTED MEDIA SHOULD BE INDICATED ON

2024 GREEN INFRASTRUCTURE UPGRADES

GREENFIELD BILINGUAL SCHOOL

Owner:



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SITE ADDRESS

SEALS AND SIGNATURES

SITE # 202 1711 S 35TH STREET MILWAUKEE, WI 53215

DRAWING TITLE

DRAWING NUMBER

PLANTING DETAILS

SCALE PROJECT NUMBER 8318, DIVISION 2 MPS PROJECT NUMBER

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	PLANTING SIZE	MATURE HT	MATURE SP	QTY
TREES							

				<u> </u>			_
ΓREES							
	ACE JEF	Acer x freemanii `Jeffsred` / Autumn Blaze Maple	B & B	2.5" Min. Cal.	50`	40`	5

B & B

B & B

B & B

25`

75`

35`

AME GRA	Amelanchier x grandiflora `Autumn Brilliance` / `Autumn Brilliance` Serviceberry	B & B	6 FT. Tall Min. Multi-stem
BET GLS	Betula nigra 'Cully Improved' / Heritage® Improved River Birch Multi-trunk	B & B	6 FT. Tall Min.

کرہ		
(•)	TIL SEN	Tilia americana `Sentry` / American Sentry Linden

Quercus rubra / Red Oak

Celtis occidentalis / Common Hackberry

	DIE LON	Diervilla lonicera / Dwarf Bush Honeysuckle	3 gal	Container	4`	5`	23
,							

2.5" Min. Cal.

2.5" Min. Cal.

2.5" Min. Cal.

PERENNIALS & GRASSES

	NEP RAC	Nepeta racemosa `Walker`s Low` / Catmint	#1	Container	2.5`	3`	3
**************************************	SPO HET	Sporobolus heterolepis / Prairie Dropseed	PLUG	32-CELL FLAT OR EQUIVALENT	3`	2`	13

VINES

PAR QUI	Parthenocissus quinquefolia / Virgina Creeper	1 gal	Pot		3
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SYMBOL CODE BOTANICAL / COMMON NAME CONT PLANTING SIZE MATURE HT MATURE SP SPACING QTY

PERENNIAL AREAS

	<u></u>						
	MIX 1 - BIOSWALE						102 sf
RUD FUL	Rudbeckia fulgida / Coneflower	PLUG	32-CELL FLAT OR EQUIVALENT	3`	2`	50% @ 18" o.c.	24
TRA OHI	Tradescantia ohiensis / Spiderwort	PLUG	32-CELL FLAT OR EQUIVALENT	2`	1.5`	50% @ 18" o.c.	24
	MIX 2 - BIOSWALE						166 sf
EUP PUR	Eupatorium purpureum / Savannah Joe-Pye Weed	PLUG	32-CELL FLAT OR EQUIVALENT	6`	2`	50% @ 18" o.c.	38
PEN DIG	Penstemon digitalis / Beard-tongue	PLUG	32-CELL FLAT OR EQUIVALENT	3`	1.5`	50% @ 18" o.c.	38
	MIX 3 - BIOSWALE						106 sf
SYM NOV	Symphyotrichum novae-angliae / New England Aster	PLUG	32-CELL FLAT OR EQUIVALENT	5`	3`	50% @ 18" o.c.	24
ZIZ AUR	Zizia aurea / Golden Alexander	PLUG	32-CELL FLAT OR EQUIVALENT	2`	2`	50% @ 18" o.c.	24
	MIX 4 - BIOSWALE						125 sf
- - - - - LIA SPI	Liatris spicata / Blazing Star	PLUG	32-CELL FLAT OR EQUIVALENT	3`	1`	50% @ 18" o.c.	29
PYC VIR	Pycnanthemum virginianum / Mountain Mint	PLUG	32-CELL FLAT OR EQUIVALENT	2`	2`	50% @ 18" o.c.	29

BIOSWALE GREEN MULCH SEED MIX

		PLS
Botanical Name	Common Name	Ounces/Acre
Cover Crop:		
Regreen	Regreen Winter Wheat	160
Grasses & Sedges:		
Carex brevior	Plains Oval Sedge	6
Carex bromoides	Brome Hummock Sedge	8
Carex vulpinoidea	Brown Fox Sedge	16
Penstemon digitalis	Foxglove Beardtongue	2
Rudbeckia hirta	Black-eyed Susan	3
Sporobolus heterolepis	Prairie Dropseed	36
	Total	231
	LBS	14.44

2024 GREEN INFRASTRUCTURE

UPGRADES GREENFIELD BILINGUAL

Owner:

SCHOOL



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DRAWING TITLE

PLANTING SCHEDULE

	1.502
MPS PROJECT NUMBER	
	8318, DIVISION
PROJECT NUMBER	
OOALL	1489
SCALE	

DRAWING NUMBER