

# 2023 GREEN INFRASTRUCTURE UPGRADES

## ALEXANDER MITCHELL ELEMENTARY SCHOOL

### SITE #274

1728 S. 23RD STREET, MILWAUKEE, WI 53204

### FINAL PLAN SET

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#### PRIME CONSULTANT

Stormwater Solutions Engineering, LLC.  
 247 W Freshwater Way, Suite 410  
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 Phone: 414-810-1245  
 Kara Koch, P.E., ENV. SP  
 Senior Project Engineer  
 kara@stormwater-solutions-engineering.com



#### LANDSCAPE ARCHITECT CONSULTANT

Learning Landscapes Design, LLC  
 4241 SW Tunnelwood Street  
 Portland, OR 97221

#### ALTERNATE NOTES:

**MANDATORY ALTERNATE BID #1  
 OVERHEAD STRUCTURE:**  
 INSTALL OVERHEAD STRUCTURE WITH FOOTINGS PRIOR TO THE INSTALLATION OF THE CONCRETE STAGE. INSTALL IN ENTIRETY METAL POLYGON STRUCTURE WITH THE GUTTER AND DOWNSPOUT. COORDINATE WITH ENGINEER ON LOCATION FOR DOWNSPOUT AND ROOF PITCH.

**MANDATORY ALTERNATE BID #2  
 FRONT ENTRANCE IMPROVEMENTS:**  
 REMOVE ASPHALT AND SUBBASE PER PLAN. INSTALL CIRCULAR CONCRETE PLANTER, CONCRETE BENCHES, CONCRETE FOR SLAB MOUNTED EXPANDED METAL BENCHES, AND LANDSCAPE PER PLAN.

**MANDATORY ALTERNATE BID #3  
 CLASSROOM EXPANSION:**  
 REMOVE ASPHALT AND SUBBASE PER PLAN. SEED AREA WITH CLOVER GRASS SEED MIX AND INSTALL PICNIC TABLES PER PLAN.

#### CONSTRUCTION BARRICADE NOTES:

FOR CONSTRUCTION BARRICADING WHERE A SEPARATION IS NEEDED BETWEEN AN AREA TO BE RECONSTRUCTED AND AN AREA TO REMAIN, BUT THERE IS NO EXISTING FENCING, A TEMPORARY 6 FOOT HIGH CHAIN LINK FENCE, SELF SUPPORTED, FREE STANDING SHALL BE USED AND MAINTAINED UNTIL THE PROJECT IS COMPLETE.

CONSTRUCTION BARRICADING SHALL BE MAINTAINED ON A DAILY BASIS TO ASSURE THAT AT THE END OF EACH WORK DAY THE SITE IS SECURED.

PROJECT NUMBER: 8174 (DIVISION 3)

PROJECT APPROVAL BY:



MILWAUKEE PUBLIC SCHOOLS  
 DIVISION OF FACILITIES AND MAINTENANCE SERVICES  
 1124 NORTH 11TH STREET  
 MILWAUKEE, WI 53205-0259  
 PHONE: 414-283-4600  
 FAX: 414-283-4682

**SURVEY LEGEND:**

- ( ) INDICATES RECORDED DIMENSION WHERE DIFFERENT FROM ACTUAL MEASUREMENT
- OR SECTION OR 1/4 SECTION CORNER AS DESCRIBED
- 1" DIA. IRON PIPE FOUND (UNLESS OTHERWISE NOTED)
- 1" DIA. IRON PIPE, 18" LONG-SET (UNLESS OTHERWISE NOTED)
- CROSS FND
- BOLLARD
- SOIL BORING/MONITORING WELL
- FLAGPOLE
- MAILBOX
- SIGN
- BILLBOARD
- CONTROL BOX
- TRAFFIC SIGNAL
- RAILROAD CROSSING SIGNAL
- CABLE PEDESTAL
- POWER POLE
- GUY WIRE
- LIGHT POLE
- SPOT/YARD/PEDESTAL LIGHT
- ELECTRIC MANHOLE
- ELECTRIC PEDESTAL
- ELECTRIC METER
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- MARKED FIBER OPTIC
- GAS VALVE
- GAS METER
- GAS WARNING SIGN
- STORM MANHOLE
- ROUND INLET
- SQUARE INLET
- STORM SEWER END SECTION
- SANITARY MANHOLE
- CITY COMMUNICATION MH
- SANITARY CLEANOUT OR SEPTIC VENT
- SANITARY INTERCEPTOR MANHOLE
- MISCELLANEOUS MANHOLE
- WATER VALVE
- HYDRANT
- WATER SERVICE CURB STOP
- WATER MANHOLE
- WELL
- WATER SURFACE
- WETLANDS FLAG
- MARSH
- CONIFEROUS TREE
- DECIDUOUS TREE
- SHRUB
- AC CONDENSOR
- HANDICAP ACCESS
- STUMP
- EDGE OF TREES
- FM - FORCE MAIN
- S - SANITARY SEWER
- STO - STORM SEWER
- W - WATERMAIN
- G - MARKED GAS MAIN
- E - MARKED ELECTRIC
- OHW - OVERHEAD WIRES
- B - BUREAU ELEC. SERV.
- T - MARKED CABLE TV LINE
- TV - MARKED TELEPHONE
- FO - MARKED FIBER OPTIC
- INDICATES EXISTING CONTOUR ELEVATION
- INDICATES EXISTING SPOT ELEVATION
- x 780.55
- EXISTING TREE

**LEGEND:**

- PROPERTY BOUNDARY
- EXISTING MAJOR CONTOUR (5' INTERVAL)
- EXISTING MINOR CONTOUR (1' INTERVAL)
- ASPHALT SAW CUT LINE
- ASPHALT REMOVAL
- REMOVALS (AS NOTED)
- REMOVALS (AS NOTED)
- SILT SOCK
- INLET PROTECTION TYPE B AND C
- INLET PROTECTION TYPE A
- ALTERNATE
- LIMIT OF WORK
- PROPOSED MAJOR CONTOUR (5' INTERVAL)
- PROPOSED MINOR CONTOUR (1' INTERVAL)
- CONCRETE CURB
- COBBLE CHANNEL INLET
- BEEHIVE GRATE
- CLEANOUT
- PROPOSED STORM MANHOLE
- TRENCH DRAIN
- PERFORATED UNDERDRAIN
- STORM SEWER PIPE
- GRADE BREAK
- STORMWATER DRAINAGE DIRECTION
- EXISTING SPOT GRADE
- PROPOSED SPOT GRADE

- 12' CHAINLINK FENCE
- EQUIPMENT USE ZONE - EXTEND A MIN. 6' OF IMPACT SURFACING BEYOND EDGE OF PLAY EQUIPMENT, SEE SPECS
- PROPOSED TREE SEE PLANTING PLAN
- PLANTING AREA 1 - LAWN/MICROCLOVER
- PLANTING AREA 2 - URBAN UPLANDS
- BIOSWALE PLANTING
- CONCRETE PAVING
- ARTIFICIAL TURF SURFACE
- 12" ENGINEERED WOOD FIBER SURFACE
- PERMEABLE PAVERS SURFACE
- EXPANDED MESH BENCHES (TYP. OF 7)
- CONCRETE BENCHES (TYP. OF 4)
- PICNIC TABLE & ADA PICNIC TABLE (TYP. OF 6)
- CONCRETE BENCH PLANTERS (TYP. OF 5)
- BIOSWALE STEPPING STONE PATH
- CONCRETE ADA RAMP
- NATURE PLAYGROUND - LOG CLIMBERS ARE COMPOSED OF BLACK LOCUST (ROBINIA) LOGS AND STRUCTURAL SUPPORTS AS NEEDED. LOGS MUST BE INSTALLED IN A STABLE POSITION FULLY SUPPORTING ITS OWN WEIGHT. CONTRACTOR HAS FLEXIBILITY IN INSTALLATION METHODS AS LONG AS IT MEETS SAFETY REGULATIONS AND PROJECT SPECIFICATIONS. PLAY COMPONENTS MUST MEET ASTM AND CSPC SAFETY GUIDELINES. ALL SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- OVERHEAD STRUCTURE
- RAIN MEASURING POST
- SIGN POST
- SENSORY BOARD (TYP OF 2) SEE SPECS
- MUSICAL INSTRUMENTS (TYP OF 3) SEE SPECS
- BASKETBALL HOOP (TYP OF 2) SEE SPECS

**SURVEY NOTES:**

- 1) SURVEY PREPARED BY HORIZON LAND DEVELOPMENT SERVICES, LLC. REFER TO PLAT OF SURVEY FOR ALL EXISTING CONDITION DETAILS.
- 2) UTILITIES MARKED BY DIGGERS HOTLINE.

**GENERAL NOTES:**

1. THE CONTRACTOR TO COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION OVER THE WORK.
2. CONTRACTOR TO VERIFY DIMENSIONS INDICATED ON DRAWINGS WITH FIELD MEASUREMENTS BEFORE FABRICATION OR ORDERING OF MATERIALS PRIOR TO COMMENCEMENT OF ANY DEMOLITION OR CONSTRUCTION. DO NOT SCALE DRAWINGS.
3. CONTRACTOR TO NOTIFY ENGINEER OF EXISTING CONDITIONS DIFFERING FROM THOSE INDICATED ON THE DRAWINGS.
4. CONTRACTOR TO CONTACT PUBLIC AND PRIVATE UNDERGROUND UTILITY LOCATING SERVICES TO HAVE THE SITE MARKED PRIOR TO ANY DIGGING OR EARTHWORK.
5. CONTRACTOR TO REPLACE ANY INSTALLED MATERIAL NOT MEETING THE SPECIFICATION OR PLAN REQUIREMENTS WITH MATERIAL THAT MEETS THESE REQUIREMENTS WITHOUT ADDITIONAL COST TO THE OWNER.
6. CONTRACTOR TO REPLACE PAVEMENT, CURB AND GUTTER, TREES, LAWN AREA, ANY ABOVE GROUND APPARATUS, OR ANY OTHER ITEM THAT WAS DAMAGED AS A RESULT OF CONSTRUCTION RELATED ACTIVITIES AS DEEMED BY OWNERS REPRESENTATIVE THAT WAS NOT CALLED OUT FOR REMOVAL OR REPLACEMENT. CONTRACTOR TO REPLACE/REPAIR DAMAGED ITEM TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.
7. FOR CONSTRUCTION BARRICADING WHERE A SEPARATION IS NEEDED BETWEEN AN AREA TO BE RECONSTRUCTED AND AN AREA TO REMAIN, BUT THERE IS NO EXISTING FENCING, A TEMPORARY 6 FOOT HIGH CHAIN LINK FENCE, SELF SUPPORTED, FREE STANDING SHALL BE USED AND MAINTAINED UNTIL THE PROJECT IS COMPLETE.
8. CONSTRUCTION BARRICADING SHALL BE MAINTAINED ON A DAILY BASIS TO ASSURE THAT AT THE END OF EACH WORK DAY THE SITE IS SECURED.
9. CONTRACTOR IS TO SECURE CONSTRUCTION AREA FOR SAFETY INCLUDING BUT NOT LIMITED TO: TRAFFIC CONTROL SIGNAGE, BARRICADE ENTRANCE, AND PLACE CONSTRUCTION FENCE AROUND OPEN TRENCHES AND SAWCUT AREAS.

**ABBREVIATIONS**

- @ AT
- % PERCENT Slope, "/, FT/FT
- ABDN ABANDONED
- AGGR AGGREGATE
- ALT ALTERNATE
- APPROX APPROXIMATE
- APVD APPROVED
- ASTM THE AMERICAN SOCIETY OF TESTING AND MATERIALS
- AVE AVENUE
- BLDG BUILDING
- BM BENCHMARK
- CB CATCH BASIN
- CJ CONSTRUCTION JOINT
- CL CENTERLINE
- DIA DIAMETER
- DSGN DESIGNER
- DWG DRAWING
- E EASTING, EAST
- EA EACH
- EG EXISTING GRADE
- EL ELEVATION
- ELEV ELEVATION
- EQL EQUAL
- EJ EXPANSION JOINT
- EX EXISTING
- FT FOOT, FEET
- GND GROUND
- GR GRADE
- HORIZ HORIZONTAL
- HP HIGH POINT
- HYD HYDRANT
- INV INVERT
- LF LINEAL FEET
- LT LEFT
- MAX MAXIMUM
- MH MANHOLE
- MIN MINIMUM
- MISC MISCELLANEOUS
- MMSD MILWAUKEE METROPOLITAN SEWERAGE DISTRICT
- N NORTH, NORTHING
- NE NORTHEAST
- NO NUMBER
- # NUMBER
- NTS NOT TO SCALE
- NW NORTHWEST
- PROP PROPOSED
- PVMT PAVEMENT
- RT RIGHT
- RMV REMOVE
- ROW RIGHT OF WAY
- RW RIGHT OF WAY
- S SOUTH, SLOPE
- SE SOUTHEAST
- SPEC SPECIFICATIONS
- SQ SQUARE
- ST STREET
- STA STATION
- STD STANDARD
- SW SOUTHWEST
- T&B TOP AND BOTTOM
- TOC TOP OF CURB
- TOS TOP OF SLOPE
- TOPO TOPOGRAPHIC
- TYP TYPICAL
- W WITH
- WS WATER SURFACE

**QUANTITY NOTES:**

- 1) THE BELOW QUANTITIES ARE APPROXIMATIONS AND ARE NOT INTENDED TO BE USED DURING CONSTRUCTION ACTIVITIES. CONTRACTORS ARE RESPONSIBLE FOR QUANTIFYING ITEMS PRIOR TO COMMENCING WORK.
- 2) DISCREPANCIES TO BE COMMUNICATED WITH MPS AND THE PROJECT ENGINEER.
- 3) VOLUMES PROVIDED ARE MEASURED AS IN-PLACE CUBIC YARDS.

Item	Quantity	Unit
<b>BASE BID</b>		
<b>GENERAL &amp; SITE PREP</b>		
Mobilization	1	LS
Provide, install, maintain, and remove silt sock	454	LF
Provide, install, and maintain inlet protection	7	EA
Provide, install, and maintain inlet pipe protection	1	EA
Chain Link Fence Removal	205	LF
Existing basketball hoop and foundation removal	5	EA
Sawcutting	1042	LF
Asphalt and/or stone base removal	425	CY
Rough & fine grading	15,231	SF
Clean out existing catch basin	4	EA
Removal of concrete steps	11	SF
Removal of railings	5	LF
Storm sewer pipe removal	30	LF
Storm catch basin removal	1	EA
Haul excess material off site	679	CY
<b>UTILITIES</b>		
4" solid PVC storm sewer pipe and fittings	7	LF
6" perforated PVC underdrain and fittings	81	LF
4" solid PVC storm sewer pipe and fittings	7	LF
6" solid PVC storm sewer pipe and fittings	7	LF
8" solid PVC storm sewer pipe and fittings	130	LF
12" solid PVC storm sewer pipe and fittings	12	LF
6" Clean out with cast iron lid and fitting	1	EA
24 in diameter standpipe (Nyloplast)	1	EA
Metal lockable beehive grate (Nyloplast)	1	EA
Fabco Beehive Overflow Filter	1	EA
48 in diameter Manhole (Vault)	1	EA
Neehan rim and solid lid for vault manhole	1	EA
Dura slope trench with galvanized grate	8	LF
2" Stilling well attached to standpipe	1	EA
4" gate valve, extension stem, and associated fittings	1	EA
<b>BIOSWALE</b>		
Bioswale engineered media	82	CY
Bioswale No. 1 clear stone	85	TONS
Bioswale pea gravel	28	TONS
Bioswale lute mat	325	SF
Cobble drain inlet	1	EA
6" Animal guard	1	EA
Cobble channel inlet	1	EA
<b>UNDERGROUND CISTERN</b>		
Cistern Geotextile Fabric, M200 Tank Wrap	1037	SY
Cistern Geotextile Fabric, M200 Excavation Wrap	1256	SY
Cistern sand bedding layer	53	TONS
Cistern backfill, No. 1 Stone	37	TONS
Underground storage tanks (Single R-Tank HD)	1258	EA
Maintenance ports, boots, misc. materials	1	LS
Cistern - Freight	1	LS
<b>PERMEABLE PAVERS</b>		
Permeable paver, setting bed, and joint stone	418	SF
Permeable paver No. 1 clear stone	10	TONS
Permeable paver metal edging (See Landscape)		
<b>ARTIFICIAL TURF</b>		
Turf No. 8 stone, double washed	59	TONS
Turf No. 1 clear stone	238	TONS
Turf Fiber, Shock Pad, Infill	4939	SF
Turf - Freight	1	LS
Turf 6 inch concrete ribbon	295	LF
<b>HARDSCAPE</b>		
Asphalt paving / patch	709	SF
5" concrete slab / walkway	86	SF
Raised concrete stage	985	SF
Concrete stage steps	22	LF
Raised concrete curb	171	LF
ADA concrete ramp	1	EA
Stone stepping stones	70	LF
12" engineered wood fiber (EWF)	1029	SF
EWF aggregate subbase	17	TONS
Crack fill & clean asphalt surface	18774	SF
Painted Play	1	LS
Cobble Splash Pad (Central Native Planting Area)	1	EA
<b>FURNITURE &amp; EQUIPMENT</b>		
Basketball Hoops	2	EA
Nature Play (log steppers and balancing logs)	1	LS
Musical instruments	2	LS
Picnic Tables	4	EA
Metal Bench	3	EA
Concrete circular tree planter	4	EA
Sensory Panel	3	EA
Rain Measuring Post	1	EA
Sign Post	1	EA
Gaga Pits	2	EA
<b>LANDSCAPE</b>		
Metal edging, steel	10	LF
Topsoil, imported and placed	253	CY
Bioswale seed	1087	SF
Lawn/Micro Clover Seed	6016	SF
Shade trees, 3" cal.	20	EA
Shrubs, 18-24"	66	EA
Grasses, raised planter, cont.	28	EA
Perennials and grasses, plugs	1616	EA
Mulch - shredded hardwood / 3" cover	280	SF
Tree protection staking	14	EA
Urban Erosion Control Mat for Urban Planting areas	109	SY
<b>FENCING</b>		
12' chain link fence	223	LF

<b>ALTERNATE BID</b>	
<b>1 OVERHEAD STRUCTURE</b>	
Overhead Structure	1 EA
<b>2 FRONT ENTRANCE IMPROVEMENTS</b>	
Sawcutting	190 LF
Asphalt and/or stone base removal	46 CY
Rough & fine grading	1,996 SF
Concrete circular tree planter	1 EA
Concrete benches	4 EA
Metal Bench	4 EA
Asphalt patch	140 SF
Topsoil, imported and placed	9 CY
Perennials and grasses, plugs	161 EA
Microcover covercrop	571 SF
Grasses, raised planter, cont.	7 EA
5" concrete slab	46 SF
Shade trees, 3" cal.	1 EA
Tree Protection Staking	1 EA
Urban Erosion Control Mat for Urban Planting areas	63 SY
Mulch - shredded hardwood / 3" cover	70 SF
<b>3 OUTDOOR CLASSROOM EXPANSION</b>	
Sawcutting	126 LF
Asphalt and/or stone base removal	37 CY
Rough & fine grading	2,483 SF
Topsoil, imported and placed	31 CY
Lawn/Micro Clover Seed	3402 SF
Tree protection staking	2 EA
Shade trees, 3" cal.	2 EA
Picnic Tables	3 EA

**STORMWATER SOLUTIONS ENGINEERING LLC**  
 247 W. FRESHWATER WAY, SUITE 410  
 MILWAUKEE, WI 53204  
 PHONE: (414) 810-1245  
 WWW.STORMWATER-SOLUTIONS-ENGINEERING.COM

**Learning Landscapes**  
 LEARNING LANDSCAPES DESIGN, LLC  
 4241 SW TUNNELWOOD STREET  
 PORTLAND, OR 97221

**MPS MILWAUKEE PUBLIC SCHOOLS**

**DIVISION OF FACILITIES AND MAINTENANCE SERVICES**  
 1124 NORTH 11TH STREET  
 MILWAUKEE, WI 53205-0259  
 PHONE: 414-283-4600  
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**SHEET NAME: LEGEND AND NOTES**  
**PROJECT NAME: 2023 GREEN INFRASTRUCTURE UPGRADES**  
**PROJECT ADDRESS: ALEXANDER MITCHELL ELEMENTARY SCHOOL 1728 S. 23RD STREET, MILWAUKEE, WI 53204**

ISSUED FOR:	REV:	DATE:
50% CD		11/14/2022
90% CD		12/22/2022
100% CD		1/23/2023

**DRAWN BY: JRZ**  
**REVIEWED BY: KLK**  
**APPROVED BY: CBG**  
**DATE: JANUARY 2023**

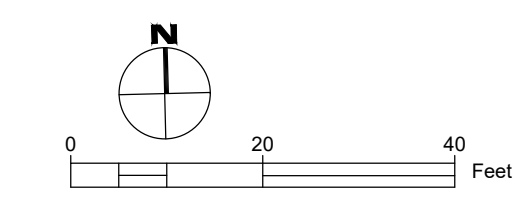
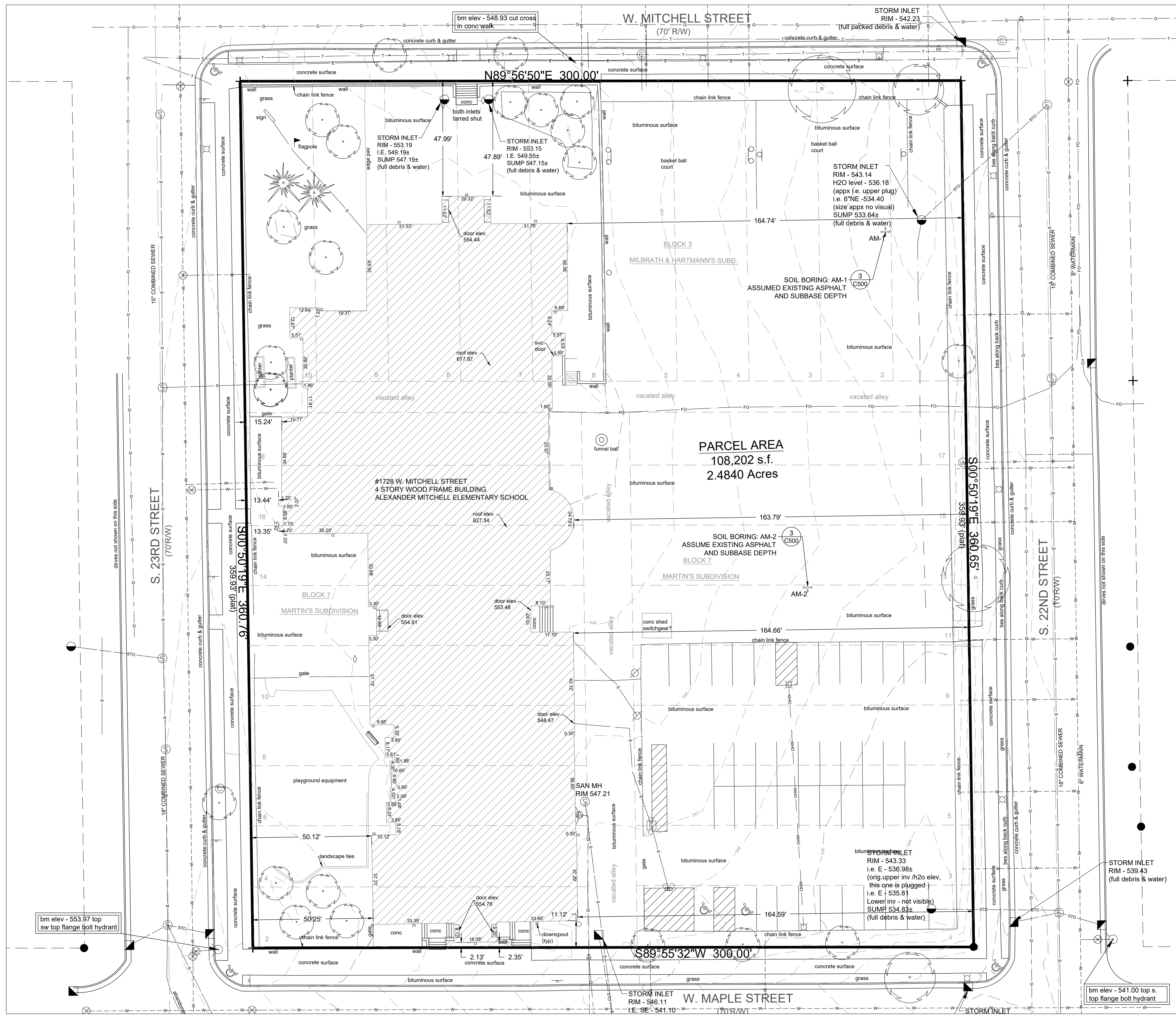
SEAL AND SIGNATURE

PROJECT NUMBER: 8174 (DIVISION 3)

SITE NUMBER: 274

SHEET: **G001**





**SHEET NAME:** EXISTING CONDITIONS  
**PROJECT NAME:** 2023 GREEN INFRASTRUCTURE UPGRADES  
**PROJECT ADDRESS:** ALEXANDER MITCHELL ELEMENTARY SCHOOL  
 1728 S. 23RD STREET, MILWAUKEE, WI 53204

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<b>DRAWN BY:</b>	JRZ
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**C001**

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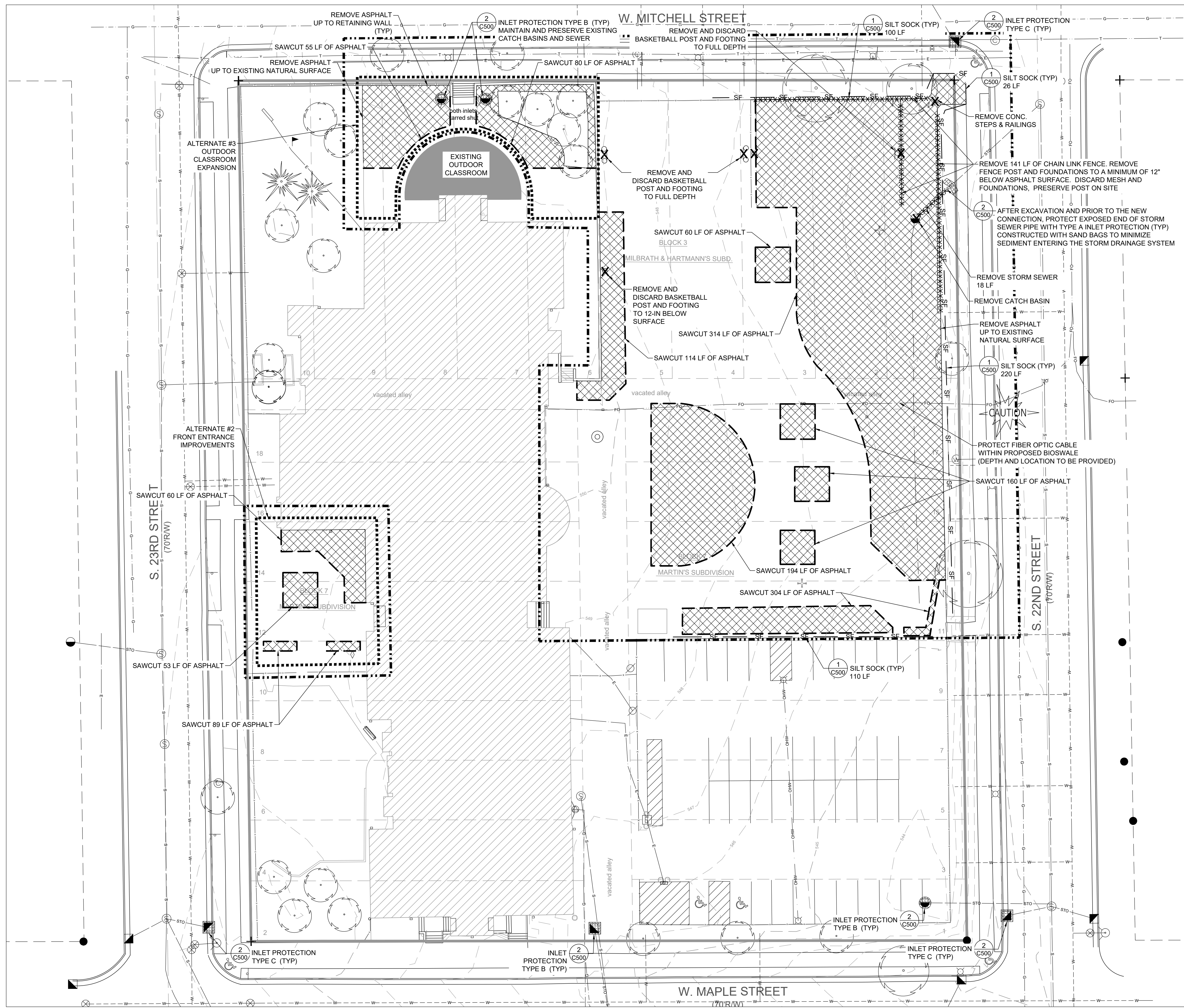
- GENERAL NOTES:**
- SURVEY PREPARED BY HORIZON LAND DEVELOPMENT SERVICES, LLC
  - BEARINGS ARE REFERENCED TO GRID NORTH NAD 83 (2011) WISCONSIN SOUTH ZONE, WITHIN WHICH THE MONUMENTED NORTH LINE OF W. MITCHELL ST. IS ASSUMED TO BEAR N89°56'50"E UTILITIES ARE MARKED BY DIGGERS HOTLINE (TICKETS #2022-3808-946, #2022-3808-958, #2022-3808-991, #2022-3809-000, #2022-3809-020, #2022-3809-039) AND LOCATED.
  - UTILITIES ARE MARKED BY DIGGERS HOTLINE (TICKETS #2022-3808-946, #2022-3808-958, #2022-3808-991, #2022-3809-000, #2022-3809-020, #2022-3809-039) AND LOCATED.
  - 4-INCH DIAMETER PAVEMENT CORES WERE COLLECTED AT THE SOIL BORING LOCATIONS IDENTIFIED ON THE PLANS BY GESTRA ENGINEERING, INC. FOLLOWING A 4-FOOT SUBGRADE SAMPLE WAS COLLECTED BELOW THE CORE SAMPLES. RESULTS ARE PRESENTED IN THE 'DRILLING AND LABORATORY TESTING SUMMARY', DATED OCTOBER 7, 2022.

ISSUED FOR:	REV:	DATE:
50% CD		11/14/2022
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<b>DRAWN BY:</b>	JRZ
<b>REVIEWED BY:</b>	KLK
<b>APPROVED BY:</b>	CBG
<b>DATE:</b>	JANUARY 2023

**SEAL AND SIGNATURE**

PROJECT NUMBER: 8174 (DIVISION 3)  
 SITE NUMBER: 274  
 SHEET: **C002**



- LEGEND:**
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  - CONTRACTOR TO NOTIFY ENGINEER OF EXISTING CONDITIONS DIFFERING FROM THOSE INDICATED ON THE DRAWINGS.
  - CONTRACTOR TO CONTACT PUBLIC AND PRIVATE UNDERGROUND UTILITY LOCATING SERVICES TO HAVE THE SITE MARKED PRIOR TO ANY DIGGING OR EARTHWORK.
  - CONTRACTOR TO REPLACE ANY INSTALLED MATERIAL NOT MEETING THE SPECIFICATION OR PLAN REQUIREMENTS WITH MATERIAL THAT MEETS THESE REQUIREMENTS WITHOUT ADDITIONAL COST TO THE OWNER.
  - CONTRACTOR TO REPLACE PAVEMENT, CURB AND GUTTER, TREES, LAWN AREA, ANY ABOVE GROUND APPARATUS, OR ANY OTHER ITEM THAT WAS DAMAGED AS A RESULT OF CONSTRUCTION RELATED ACTIVITIES AS DEEMED BY OWNERS REPRESENTATIVE THAT WAS NOT CALLED OUT FOR REMOVAL OR REPLACEMENT. CONTRACTOR TO REPLACE/REPAIR DAMAGED ITEM TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.
  - SURVEY PREPARED BY HORIZON LAND DEVELOPMENT, LLC. REFER TO PLAT OF SURVEY FOR FULL EXISTING CONDITION DETAILS.
  - FOR CONSTRUCTION BARRICADING WHERE A SEPARATION IS NEEDED BETWEEN AN AREA TO BE RECONSTRUCTED AND AN AREA TO REMAIN, BUT THERE IS NO EXISTING FENCING, A TEMPORARY 6 FOOT HIGH CHAIN LINK FENCE, SELF SUPPORTED, FREE STANDING SHALL BE USED AND MAINTAINED UNTIL THE PROJECT IS COMPLETE.
  - CONSTRUCTION BARRICADING SHALL BE MAINTAINED ON A DAILY BASIS TO ASSURE THAT AT THE END OF EACH WORK DAY THE SITE IS SECURED.
  - CONTRACTOR IS TO SECURE CONSTRUCTION AREA FOR SAFETY, INCLUDING BUT NOT LIMITED TO: TRAFFIC CONTROL SIGNAGE, BARRICADE ENTRANCE, AND PLACE CONSTRUCTION FENCE AROUND OPEN TRENCHES AND SAWCUT AREAS.

- GENERAL EROSION CONTROL NOTES**
- CONSTRUCTION SITE EROSION CONTROL AND SEDIMENTATION CONTROL TO COMPLY WITH THE REQUIREMENTS OF THE CITY OF MILWAUKEE. CONTRACTOR TO EMPLOY EROSION CONTROL METHODS AS SHOWN AND SPECIFIED.
  - TEMPORARY EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO LAND DISTURBANCE ACTIVITIES.
  - CONTRACTOR TO CONDUCT ALL ACTIVITIES ON THE SITE IN A LOGICAL SEQUENCE TO MINIMIZE THE AREA OF UNSTABILIZED SOIL AT ANY ONE TIME.
  - EROSION CONTROL MEASURES TO REMAIN IN PLACE AND BE MAINTAINED UNTIL SUCH TIME WHEN CONSTRUCTION HAS BEEN COMPLETED AND FINAL STABILIZATION HAS BEEN ESTABLISHED.
  - CONTRACTOR TO PERFORM PERIODIC STREET, PLAYGROUND, AND PARKING LOT SWEEPING TO MAINTAIN THE PUBLIC STREET FREE OF DUST AND SOIL.
  - ALL DISTURBED GROUND LEFT INACTIVE FOR SEVEN OR MORE DAYS TO BE STABILIZED BY TEMPORARY OR PERMANENT SEEDING, MULCHING, SODDING, COVERING WITH TARPS, OR EQUIVALENT BEST MANAGEMENT PRACTICES. IF TEMPORARY SEEDING IS USED, CONTRACTOR TO INSTALL A PERMANENT COVER AS PART OF THE FINAL SITE STABILIZATION.
  - CONTRACTOR TO NOTIFY PERMITTING AGENCIES IN ACCORDANCE WITH PERMIT REQUIREMENTS.
  - CONTRACTOR TO REPAIR ANY SILTATION OR EROSION DAMAGE TO ADJOINING SURFACES AND DRAINAGEWAYS RESULTING FROM LAND DEVELOPMENT OR LAND DISTURBING ACTIVITIES.
  - KEEP A COPY OF THE EROSION CONTROL PLAN ON SITE FOR THE DURATION OF THE PROJECT.



ISSUED FOR:	REV:	DATE:
50% CD		11/14/2022
90% CD		12/22/2022
100% CD		1/23/2023

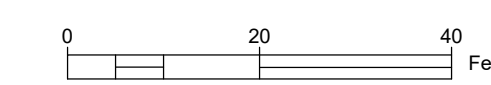
DRAWN BY:	JRZ
REVIEWED BY:	KLK
APPROVED BY:	CBG
DATE:	JANUARY 2023
SEAL AND SIGNATURE	

PROJECT NUMBER: 8174 (DIVISION 3)

SITE NUMBER: 274

SHEET:

**C100**

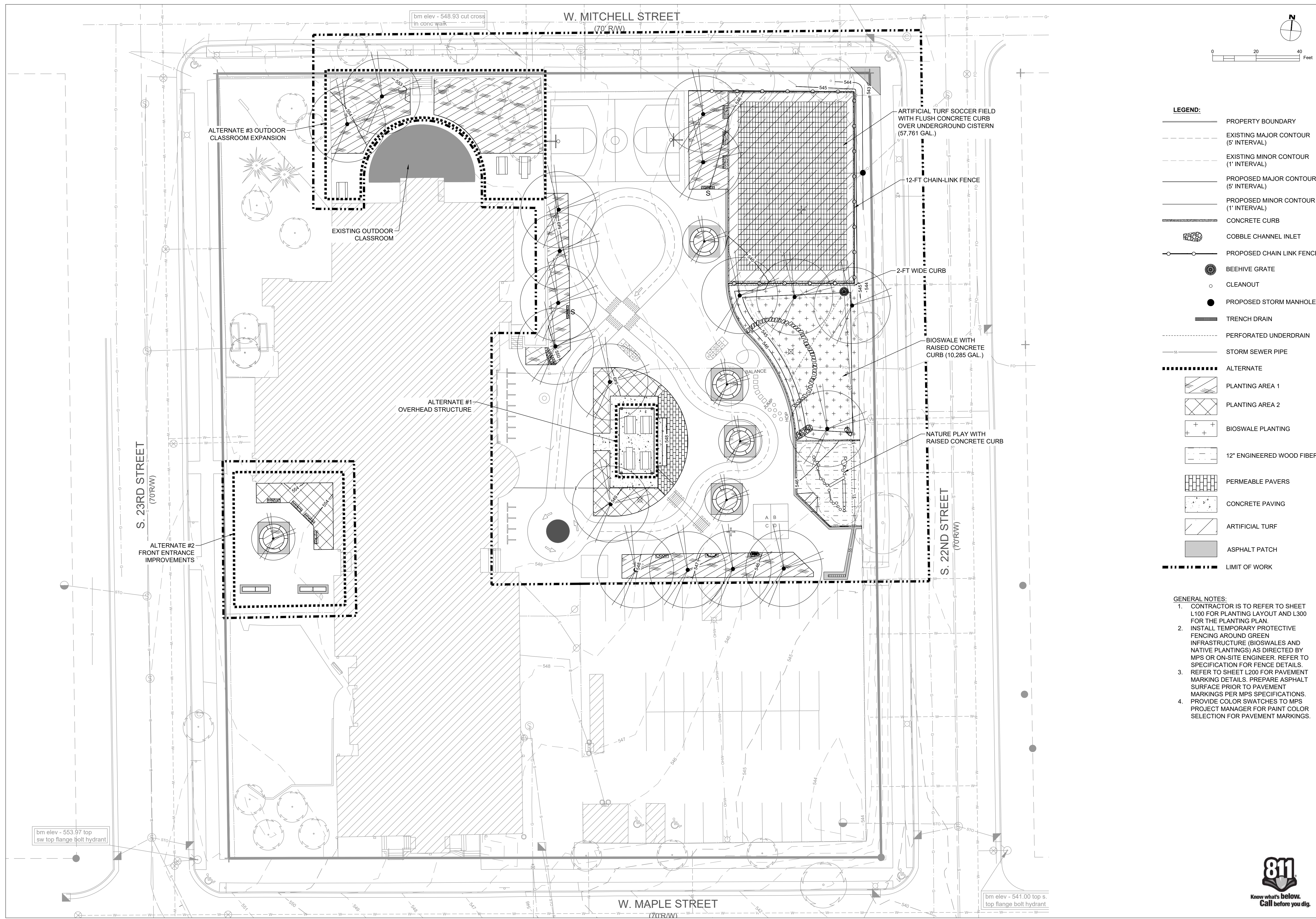


**LEGEND:**

- PROPERTY BOUNDARY
- - - - - EXISTING MAJOR CONTOUR (5' INTERVAL)
- - - - - EXISTING MINOR CONTOUR (1' INTERVAL)
- PROPOSED MAJOR CONTOUR (5' INTERVAL)
- - - - - PROPOSED MINOR CONTOUR (1' INTERVAL)
- CONCRETE CURB
- COBBLE CHANNEL INLET
- PROPOSED CHAIN LINK FENCE
- BEEHIVE GRATE
- CLEANOUT
- PROPOSED STORM MANHOLE
- TRENCH DRAIN
- - - - - PERFORATED UNDERDRAIN
- STORM SEWER PIPE
- ALTERNATE
- ▨ PLANTING AREA 1
- ▩ PLANTING AREA 2
- ▧ BIOSWALE PLANTING
- ▦ 12" ENGINEERED WOOD FIBER
- ▤ PERMEABLE PAVERS
- ▥ CONCRETE PAVING
- ▧ ARTIFICIAL TURF
- ▨ ASPHALT PATCH
- LIMIT OF WORK

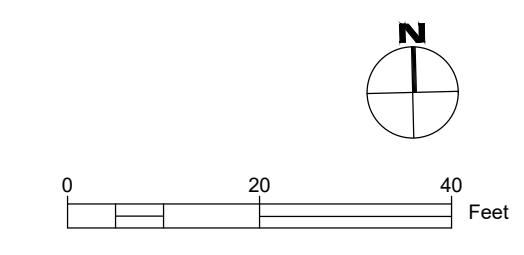
**GENERAL NOTES:**

- CONTRACTOR IS TO REFER TO SHEET L100 FOR PLANTING LAYOUT AND L300 FOR THE PLANTING PLAN.
- INSTALL TEMPORARY PROTECTIVE FENCING AROUND GREEN INFRASTRUCTURE (BIOSWALES AND NATIVE PLANTINGS) AS DIRECTED BY MPS OR ON-SITE ENGINEER. REFER TO SPECIFICATION FOR FENCE DETAILS.
- REFER TO SHEET L200 FOR PAVEMENT MARKING DETAILS. PREPARE ASPHALT SURFACE PRIOR TO PAVEMENT MARKINGS PER MPS SPECIFICATIONS.
- PROVIDE COLOR SWITCHES TO MPS PROJECT MANAGER FOR PAINT COLOR SELECTION FOR PAVEMENT MARKINGS.



ISSUED FOR:	REV:	DATE:
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90% CD		12/22/2022
100% CD		1/23/2023

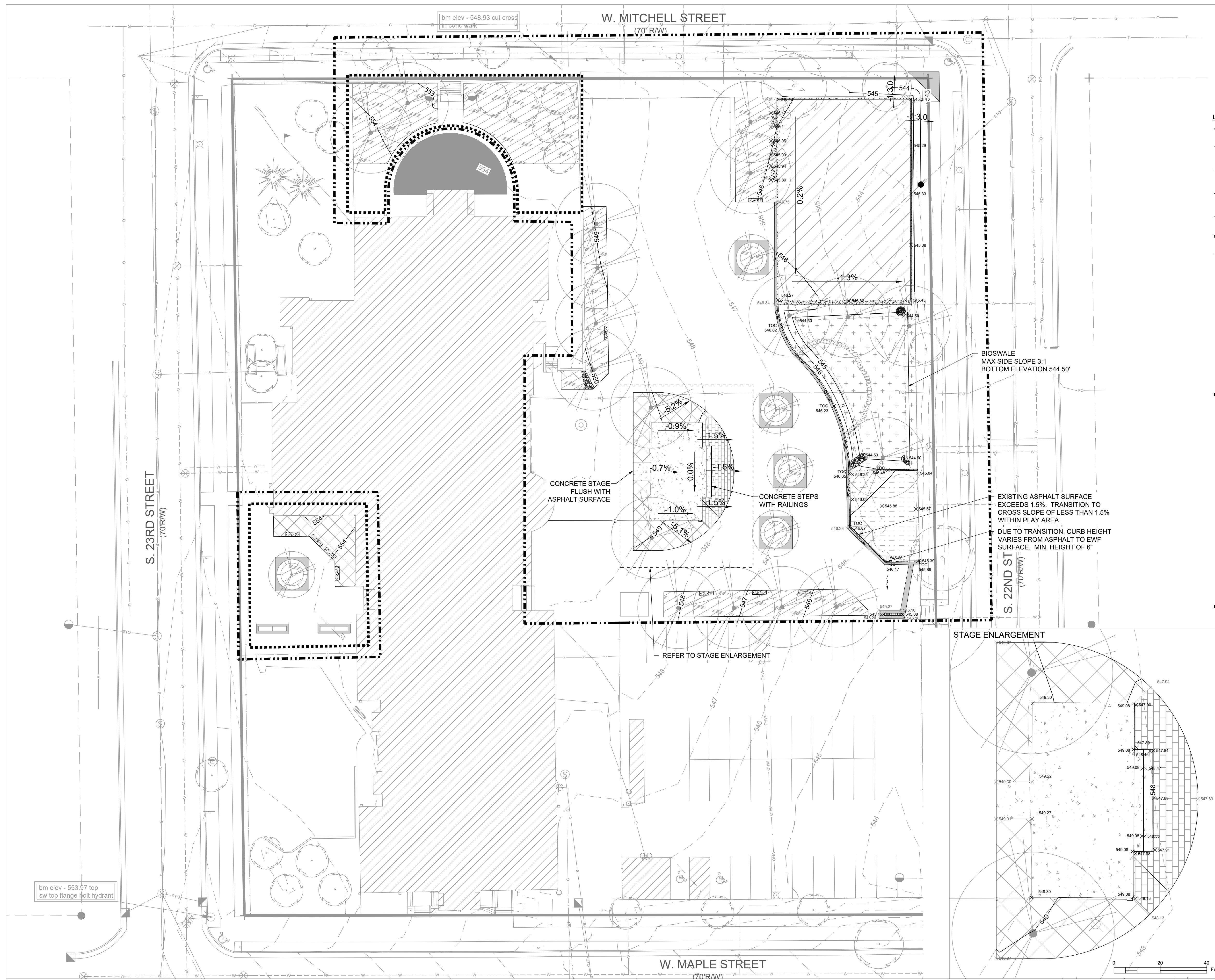
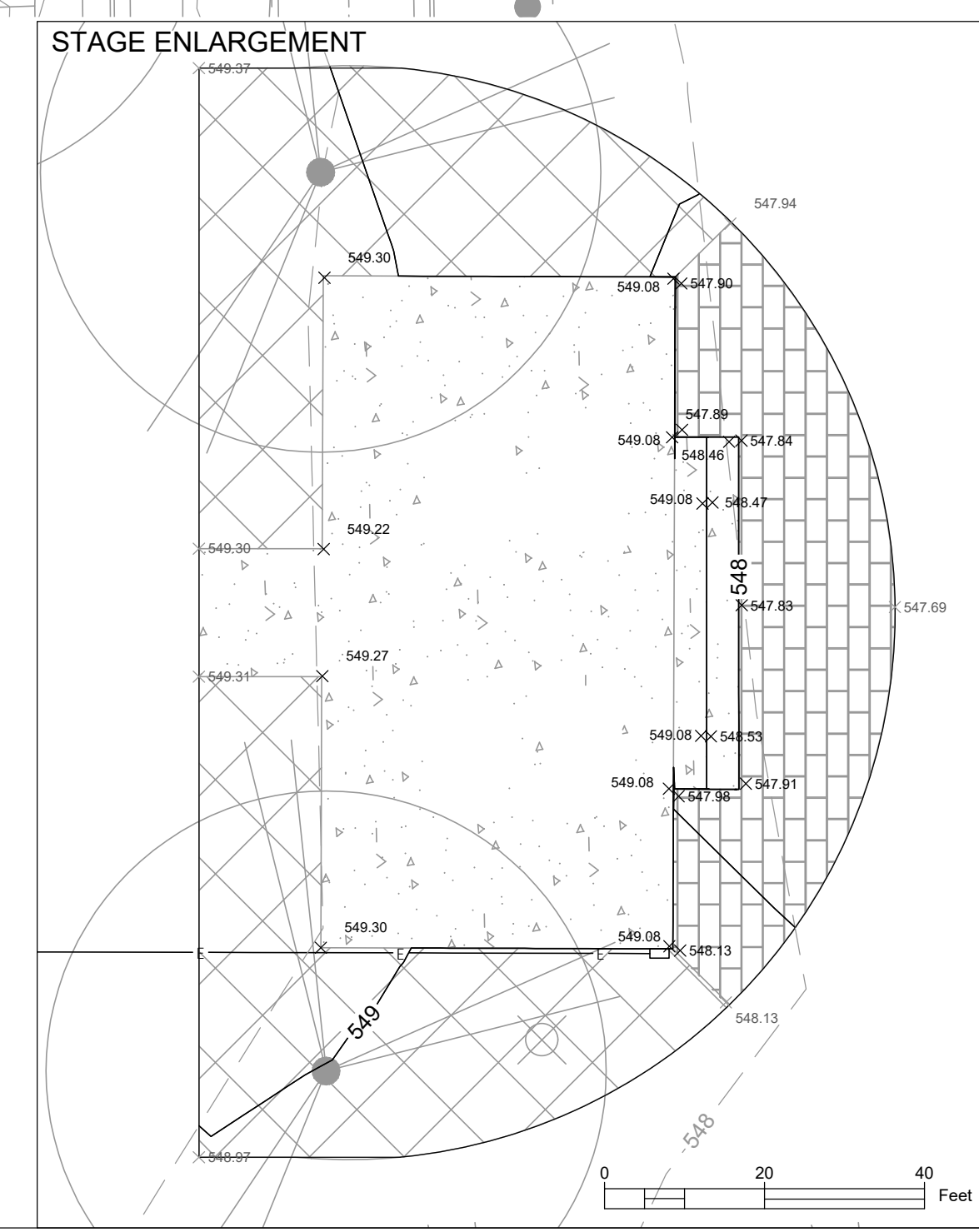
<b>DRAWN BY:</b>	JRZ
<b>REVIEWED BY:</b>	KLK
<b>APPROVED BY:</b>	CBG
<b>DATE:</b>	JANUARY 2023
<b>SEAL AND SIGNATURE</b>	



**LEGEND:**

- PROPERTY BOUNDARY
- - - EXISTING MAJOR CONTOUR (5' INTERVAL)
- - - EXISTING MINOR CONTOUR (1' INTERVAL)
- PROPOSED MAJOR CONTOUR (5' INTERVAL)
- - - PROPOSED MINOR CONTOUR (1' INTERVAL)
- ▬ CONCRETE CURB
- - - GRADE BREAK
- STORMWATER DRAINAGE DIRECTION
- x 82.1 EXISTING SPOT GRADE
- x 80.7 PROPOSED SPOT GRADE
- ⊙ BEEHIVE GRATE
- CLEANOUT
- PROPOSED STORM MANHOLE
- ▬ TRENCH DRAIN
- ▬ ALTERNATE
- ▨ PLANTING AREA 1
- ▩ PLANTING AREA 2
- ⊕ BIOSWALE PLANTING
- ▨ 12" ENGINEERED WOOD FIBER
- ▨ PERMEABLE PAVERS
- ▨ CONCRETE PAVING
- ▨ ARTIFICIAL TURF
- ▨ ASPHALT PATCH
- ▬ LIMIT OF WORK

- GENERAL NOTES:**
- ELEVATIONS SHOWN ON THE PLAN ARE EQUAL TO THE FINISHED TOP OF GRADE.
  - CUT MATERIALS ARE TO BE HAULED OFF SITE.
  - WALKING PATHS ARE GRADED TO MEET THE 2010 ADA STANDARD FOR ACCESSIBLE DESIGN. LONGITUDINAL SLOPES NO GRATER THAN 1:20 FEET AND CROSS SLOPES NO GRATER THAN 1:50 FEET OR BETWEEN 1.5% TO 2.0% MAXIMUM.
  - CUT FILL VOLUMES ARE REPRESENTED IN PLACE CUBIC YARDS AND DO NOT ACCOUNT FOR COMPACTION REQUIREMENTS.



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100% CD		1/23/2023

<b>DRAWN BY:</b>	JRZ
<b>REVIEWED BY:</b>	KLK
<b>APPROVED BY:</b>	CBG
<b>DATE:</b>	JANUARY 2023

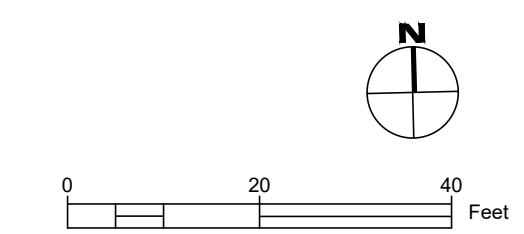
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PROJECT NUMBER: 8174 (DIVISION 3)

SITE NUMBER: 274

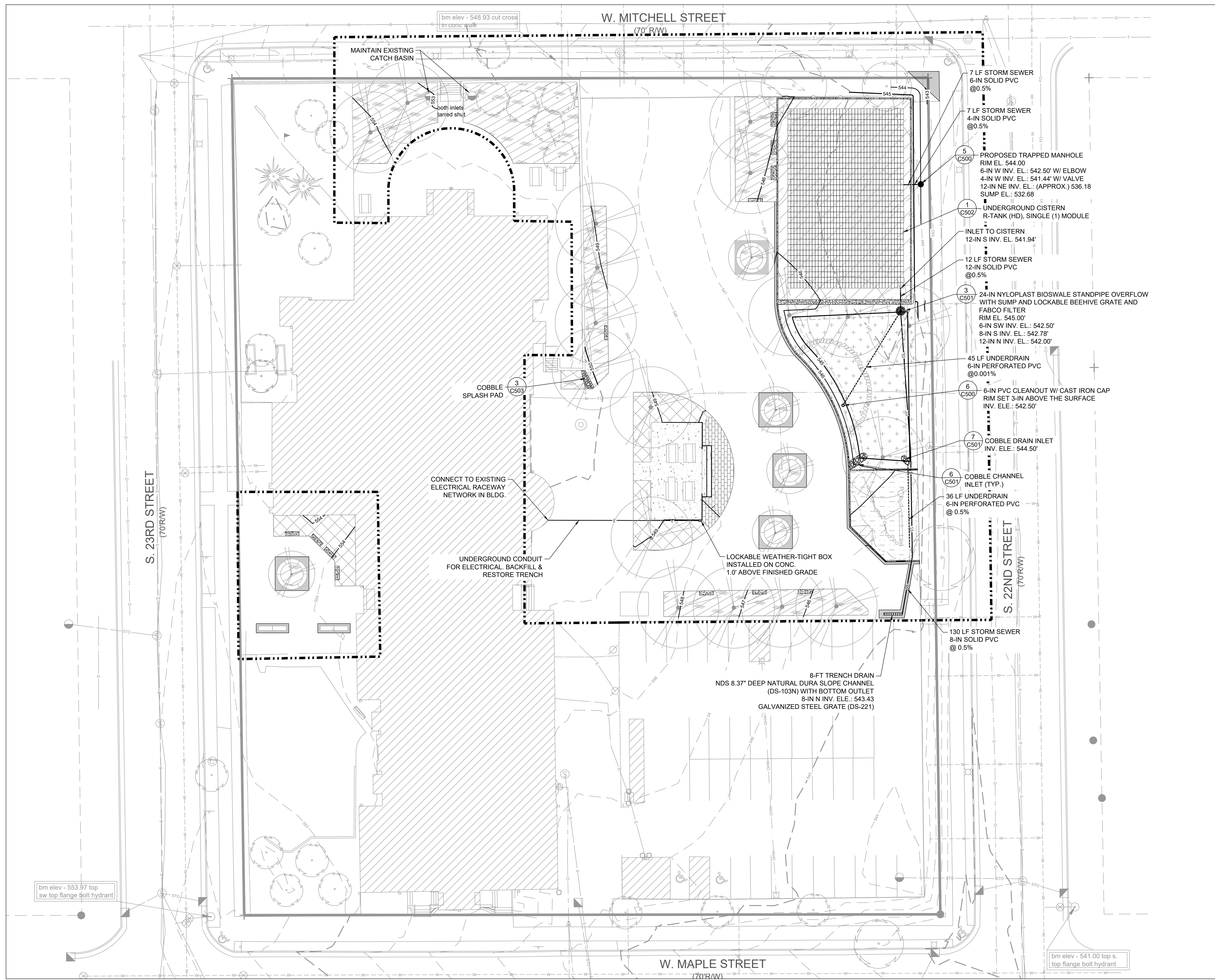
SHEET:

**C300**



- LEGEND:**
- PROPERTY BOUNDARY
  - - - EXISTING MAJOR CONTOUR (5' INTERVAL)
  - - - EXISTING MINOR CONTOUR (1' INTERVAL)
  - PROPOSED MAJOR CONTOUR (5' INTERVAL)
  - PROPOSED MINOR CONTOUR (1' INTERVAL)
  - CONCRETE CURB
  - BEEHIVE GRATE
  - CLEANOUT
  - PROPOSED STORM MANHOLE
  - ▬ TRENCH DRAIN
  - - - PERFORATED UNDERDRAIN
  - STORM SEWER PIPE
  - ALTERNATE
  - ▨ PLANTING AREA 1
  - ▩ PLANTING AREA 2
  - ⊕ BIOSWALE PLANTING
  - ▬ 12" ENGINEERED WOOD FIBER
  - ▨ PERMEABLE PAVERS
  - ▨ CONCRETE PAVING
  - ▨ ARTIFICIAL TURF
  - ▨ ASPHALT PATCH
  - LIMIT OF WORK

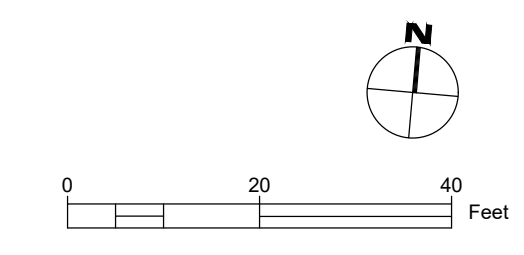
- GENERAL NOTES:**
- CONTRACTOR TO VERIFY IN FIELD AND VERIFY DESIGN WITH ENGINEERS: EXISTING PIPE QUALITY, CONNECTIONS AND PIPE QUALITY, EXISTING INLET STRUCTURAL INTEGRITY, AND PROPOSED GRATE AND FRAME.
  - SUPPLY MATERIALS AS SPECIFIED OR APPROVED EQUAL.
  - EXISTING CATCH BASINS WITHIN PROJECT AREA TO BE CLEANED AFTER CONSTRUCTION.



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100% CD		1/23/2023

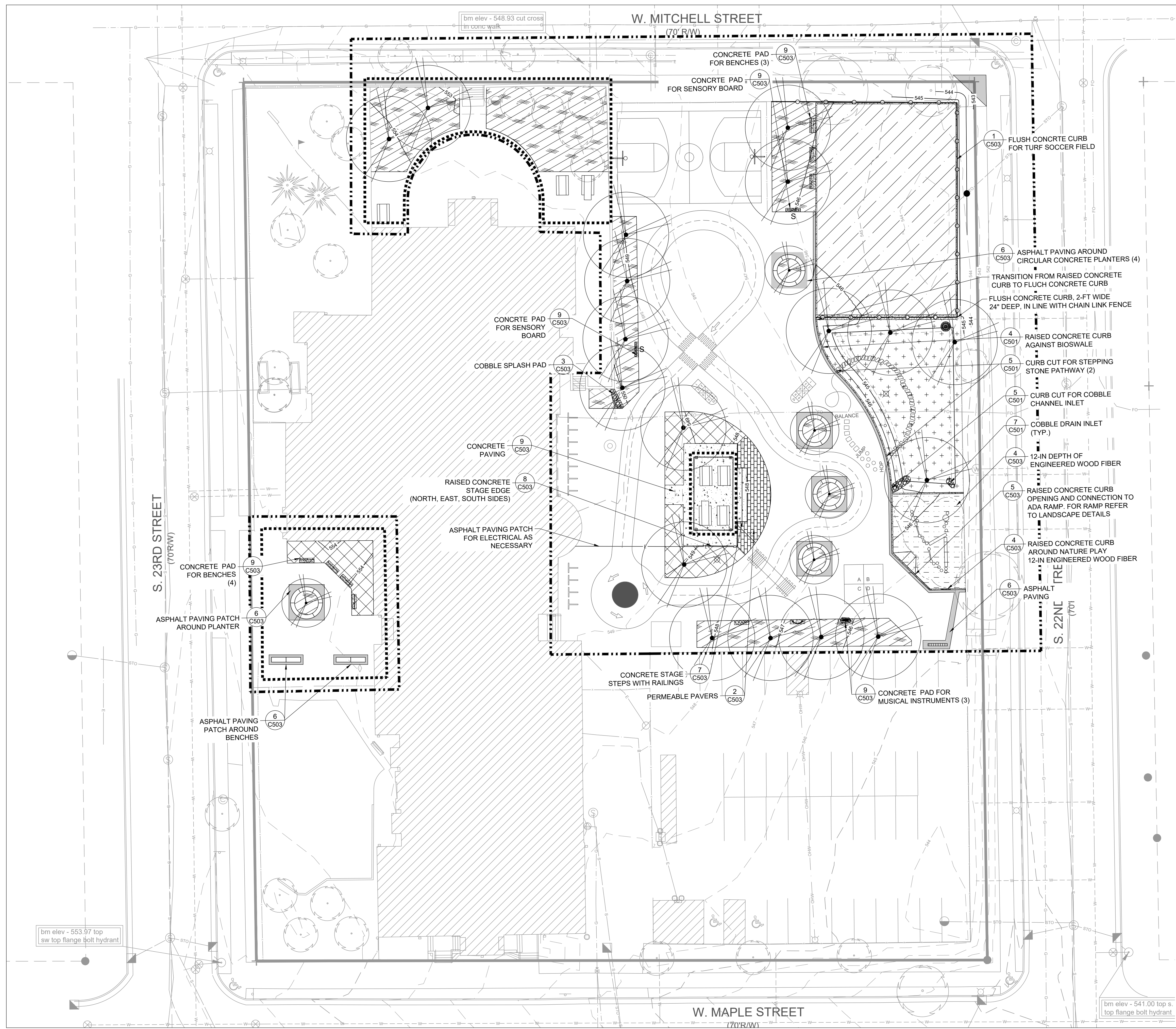
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<b>REVIEWED BY:</b>	KLK
<b>APPROVED BY:</b>	CBG
<b>DATE:</b>	JANUARY 2023

<b>SEAL AND SIGNATURE</b>	
PROJECT NUMBER: 8174 (DIVISION 3)	
SITE NUMBER: 274	
SHEET: C400	



- LEGEND:**
- PROPERTY BOUNDARY
  - - - EXISTING MAJOR CONTOUR (5' INTERVAL)
  - - - EXISTING MINOR CONTOUR (1' INTERVAL)
  - PROPOSED MAJOR CONTOUR (5' INTERVAL)
  - PROPOSED MINOR CONTOUR (1' INTERVAL)
  - CONCRETE CURB
  - BEEHIVE GRATE
  - CLEANOUT
  - PROPOSED STORM MANHOLE
  - TRENCH DRAIN
  - - - - - ALTERNATE
  - [Hatched Box] PLANTING AREA 1
  - [Cross-hatched Box] PLANTING AREA 2
  - [Cross-hatched Box with +] BIOSWALE PLANTING
  - [Dashed Box] 12" ENGINEERED WOOD FIBER
  - [Grid Box] PERMEABLE PAVERS
  - [Dotted Box] CONCRETE PAVING
  - [Diagonal Line Box] ARTIFICIAL TURF
  - [Solid Grey Box] ASPHALT PAVING PATCH
  - - - - - LIMIT OF WORK

- GENERAL NOTES:**
- PREPARE ASPHALT SURFACE PRIOR TO PAVEMENT MARKINGS PER MPS SPECIFICATIONS.
  - REFER TO L200 FOR PAVEMENT MARKINGS.
  - PROVIDE COLOR SWITCHES TO MPS PROJECT MANAGER FOR PAINT COLOR SELECTION FOR PAVEMENT MARKINGS. DAMAGES TO ASPHALT WILL BE EVALUATED AT SUBSTANTIALLY COMPLETED PRIOR TO ASPHALT SEAL COAT FOR REPAIRS BASED ON THE QUALITY OF THE ASPHALT SURFACE PRIOR TO CONSTRUCTION.
  - ASPHALT CURB AND PATCHES ASSOCIATED WITH SUBSTANTIALLY COMPLETING THE CONSTRUCTION PROJECT ARE INCIDENTAL TO THE PROJECT.





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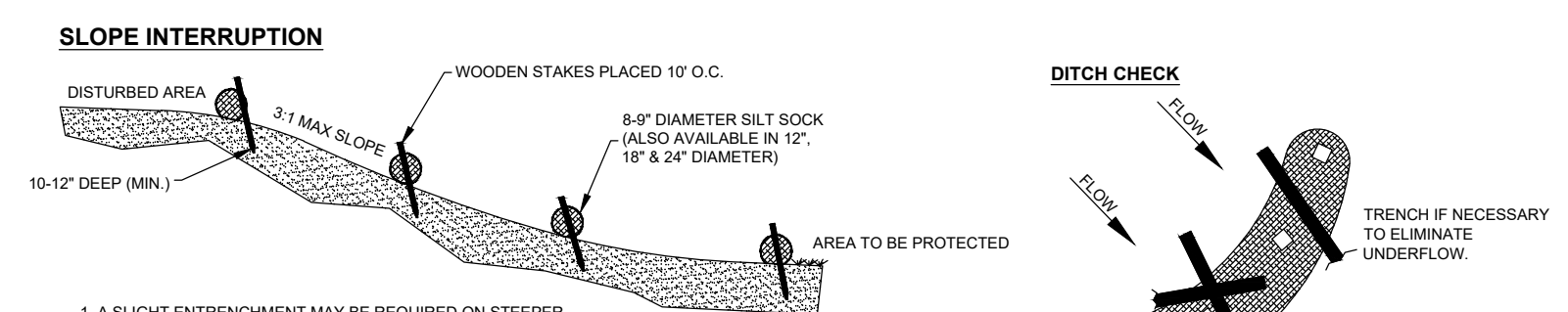
DRAWN BY:	JRZ
REVIEWED BY:	KLK
APPROVED BY:	CBG
DATE:	JANUARY 2023

SEAL AND SIGNATURE

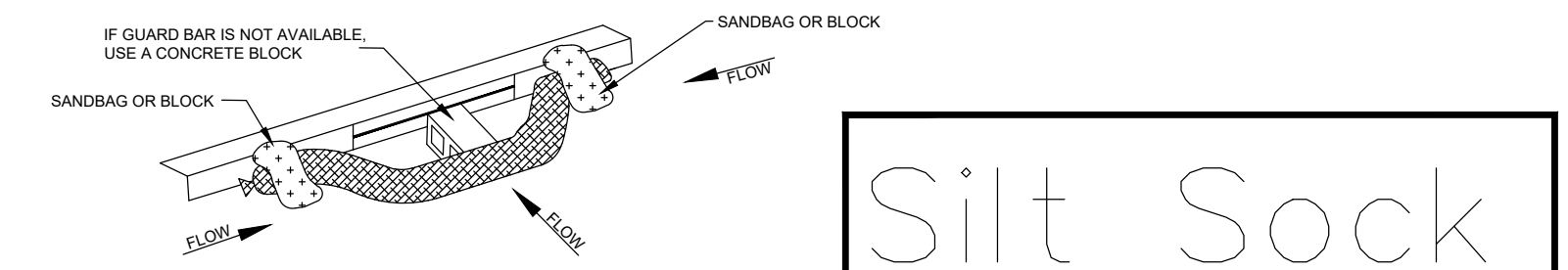
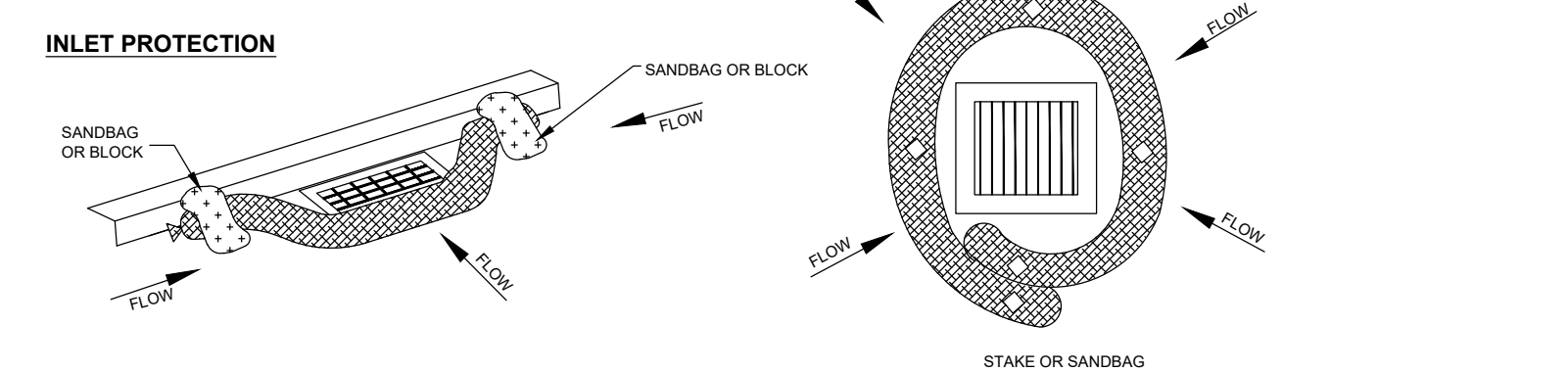
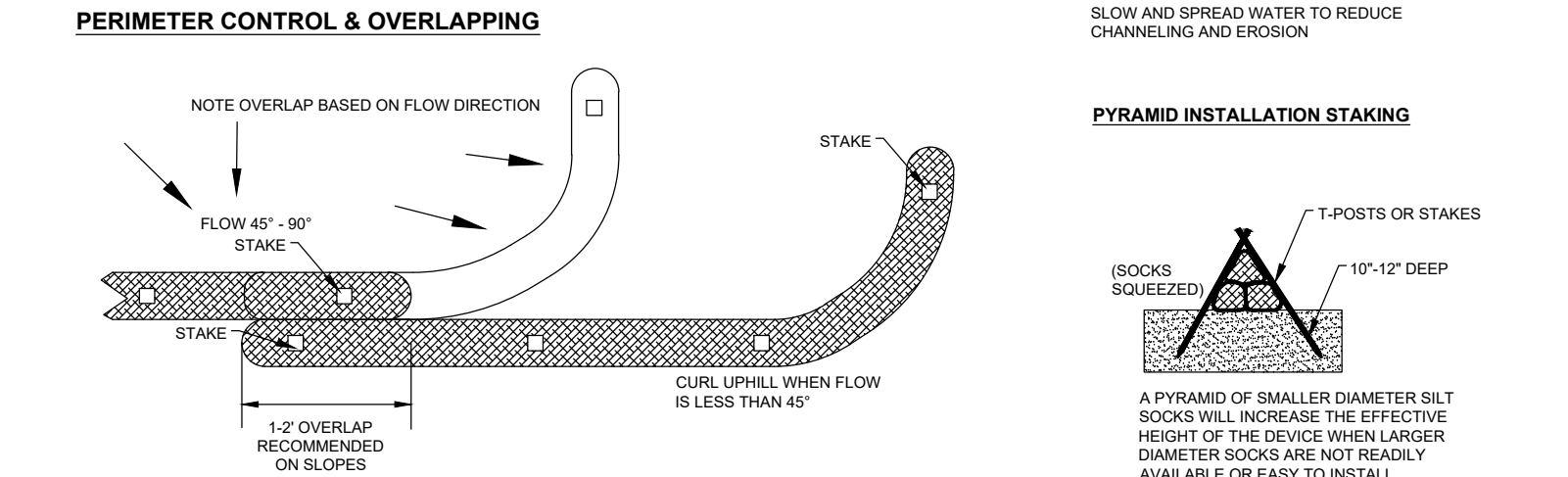
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PROJECT NUMBER: 8174 (DIVISION 3)  
 SITE NUMBER: 274

SHEET:  
**C500**



1. A SLIGHT ENTRENCHMENT MAY BE REQUIRED ON STEEPER SLOPES TO ENSURE INTIMATE GROUND CONTACT.
2. REMOVE SEDIMENT FROM THE UPSLOPE SIDE OF THE SILT SOCK WHEN ACCUMULATION HAS REACHED 1/2 OF EFFECTIVE HEIGHT OF SOCK.
3. LOOSE FILTER MEDIA MAY BE BACKFILLED ON THE UPSLOPE SIDE OF SOCK TO ENHANCE PERFORMANCE.
4. HARDWOOD STAKES 2"x2"x24" (NOMINAL) ARE SUGGESTED.



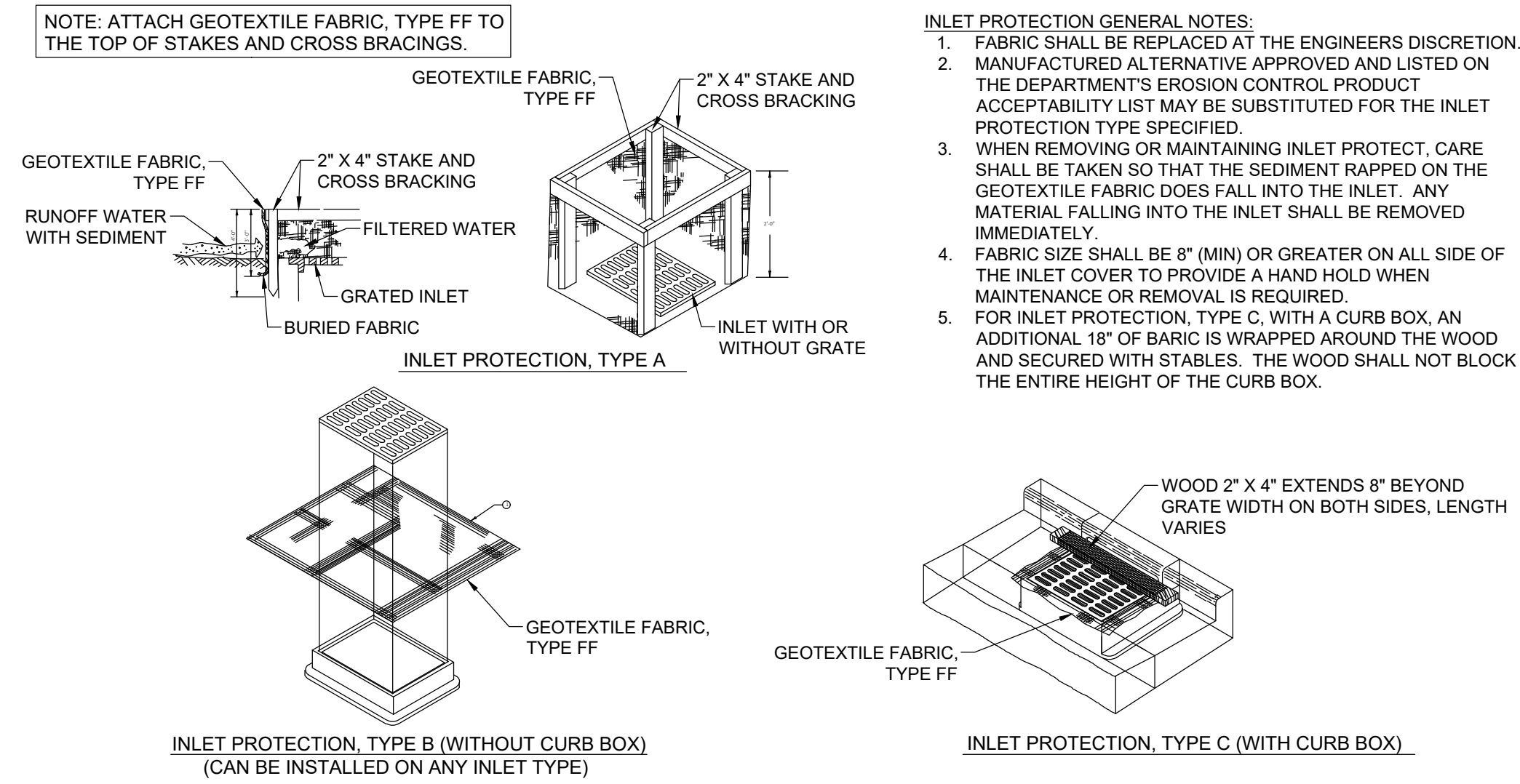
1. THESE GUIDELINES ARE BASED UPON MANUFACTURERS RECOMMENDATIONS. PROJECT SPECIFICATIONS MAY SUPERSEDE THESE GUIDELINES.
2. REFER TO REGULATORY AUTHORITY OR PROJECT ENGINEER FOR DETAILED INSTALLATION PROCEDURES.
3. WOOD FILLER MATERIAL IS PROPERLY SIZED, BIODEGRADABLE, WEED, SEED & DISEASE FREE AND ENVIRONMENTALLY SOUND.

## Silt Sock

EROSION CONTROL PRODUCTS

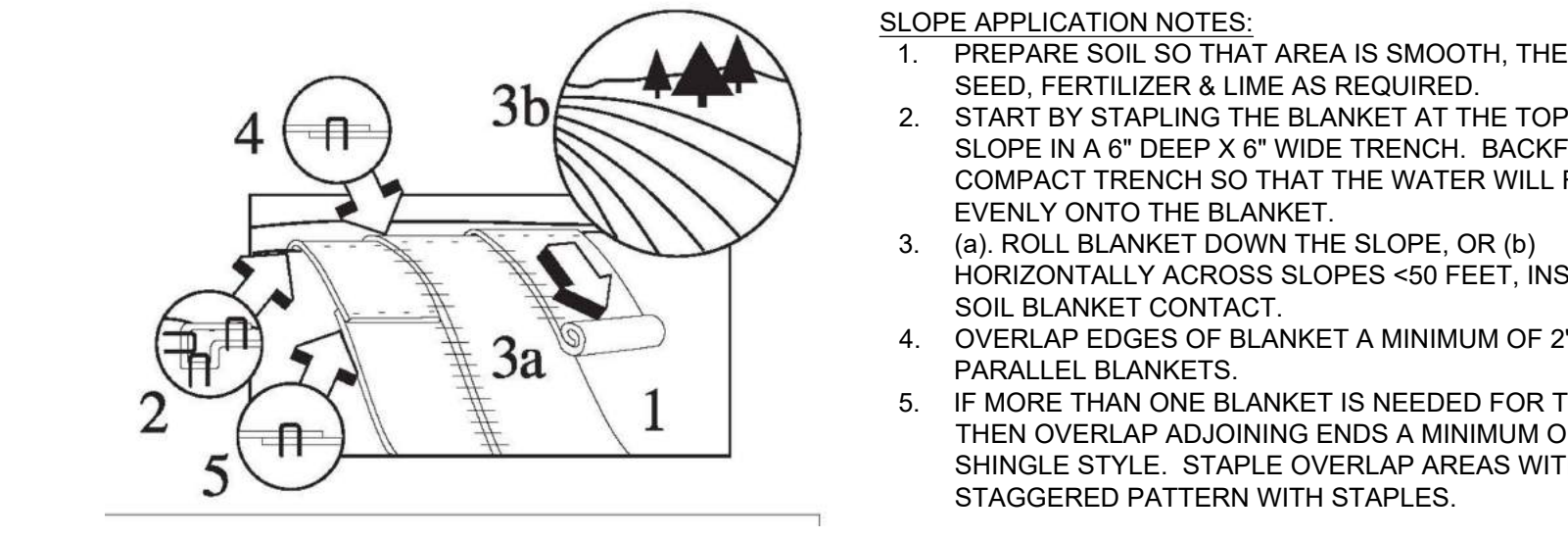
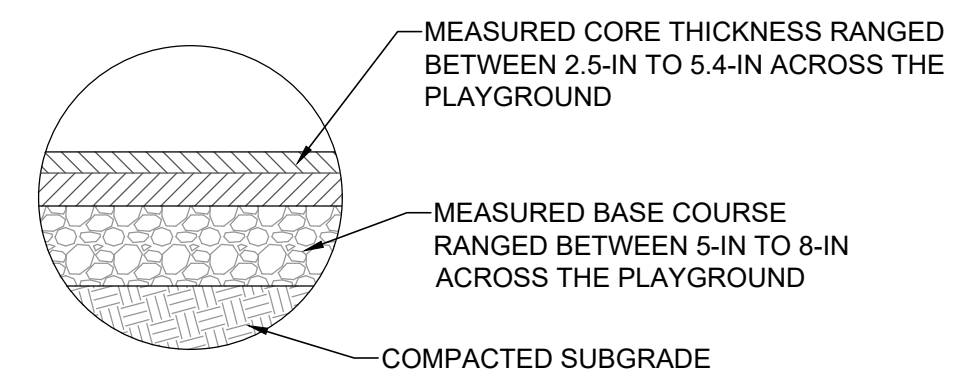
(608) 438-7625  
 WWW.SILT SOCK.NET

**1 SILT SOCK**  
 NTS



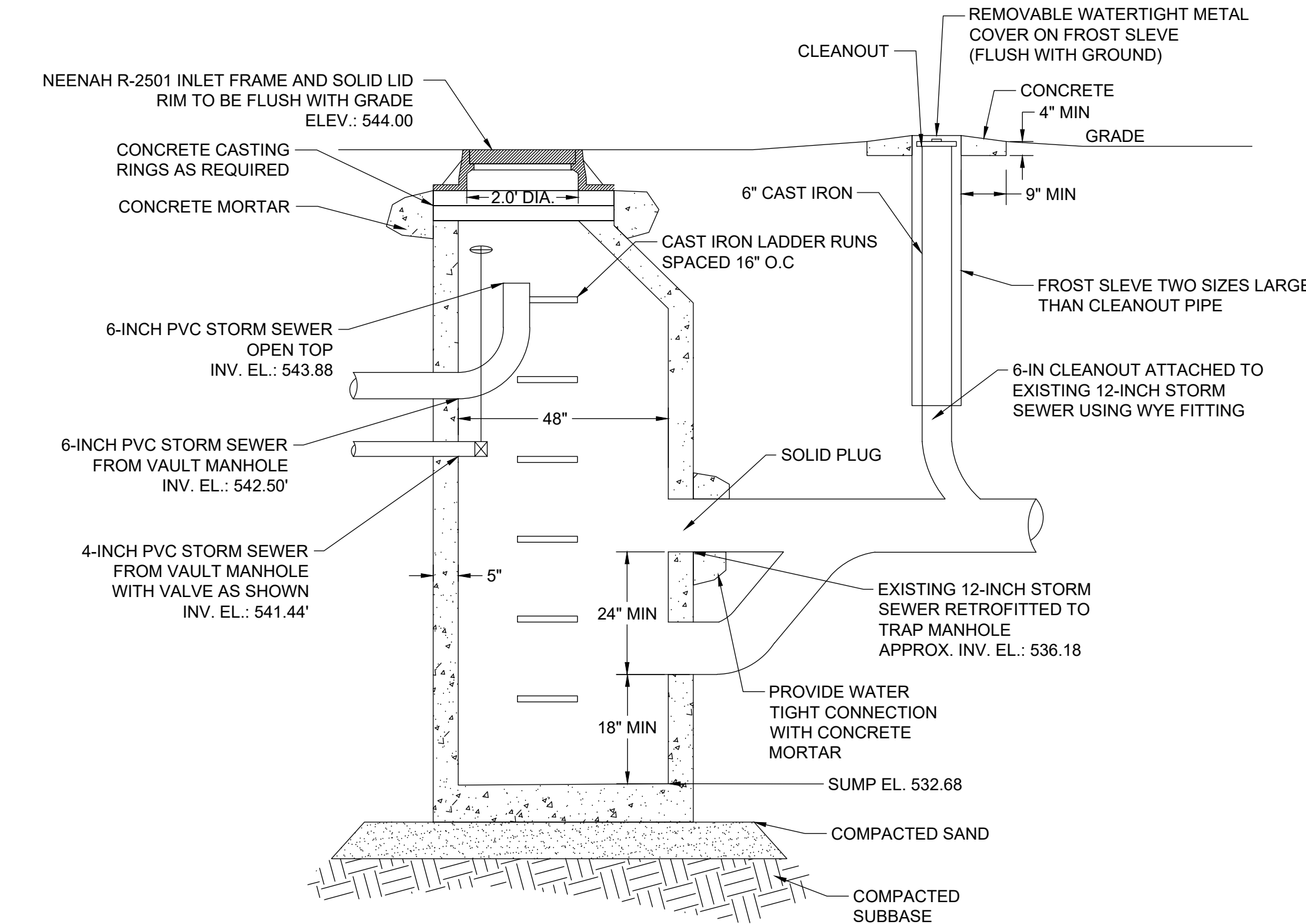
**2 INLET PROTECTION DETAIL**  
 NTS

**3 ASSUMED EXISTING ASPHALT AND BASE DEPTH**  
 NTS

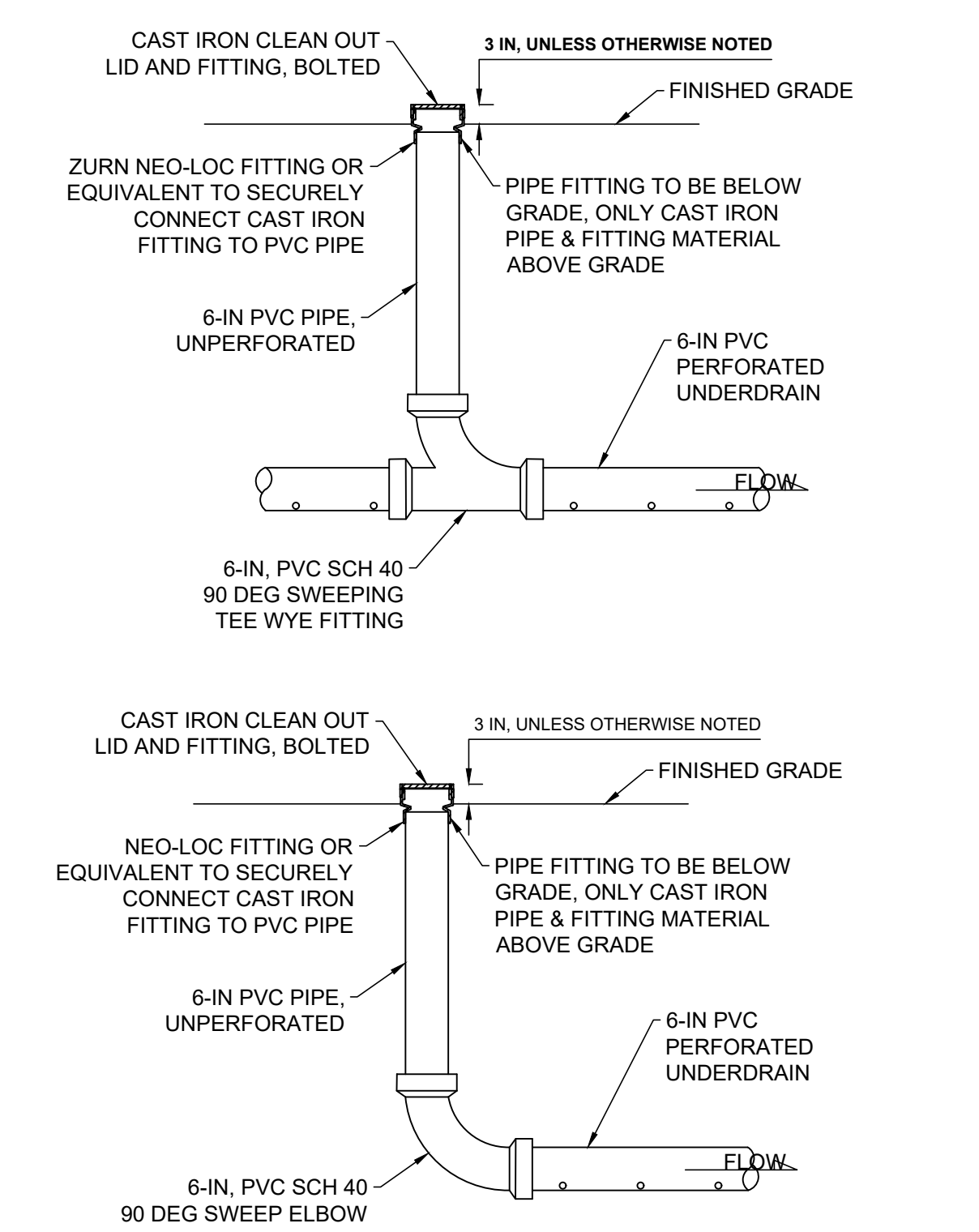


- SLOPE APPLICATION NOTES:**
1. PREPARE SOIL SO THAT AREA IS SMOOTH, THEN ADD SEED, FERTILIZER & LIME AS REQUIRED.
  2. START BY STAPLING THE BLANKET AT THE TOP OF THE SLOPE IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL & COMPACT TRENCH SO THAT THE WATER WILL FLOW EVENLY ONTO THE BLANKET.
  3. (a). ROLL BLANKET DOWN THE SLOPE, OR (b) HORIZONTALLY ACROSS SLOPES <50 FEET, INSURING SOIL BLANKET CONTACT.
  4. OVERLAP EDGES OF BLANKET A MINIMUM OF 2" WITH PARALLEL BLANKETS.
  5. IF MORE THAN ONE BLANKET IS NEEDED FOR THE RUN THEN OVERLAP ADJOINING ENDS A MINIMUM OF 4" SHINGLE STYLE. STAPLE OVERLAP AREAS WITH STAGGERED PATTERN WITH STAPLES.

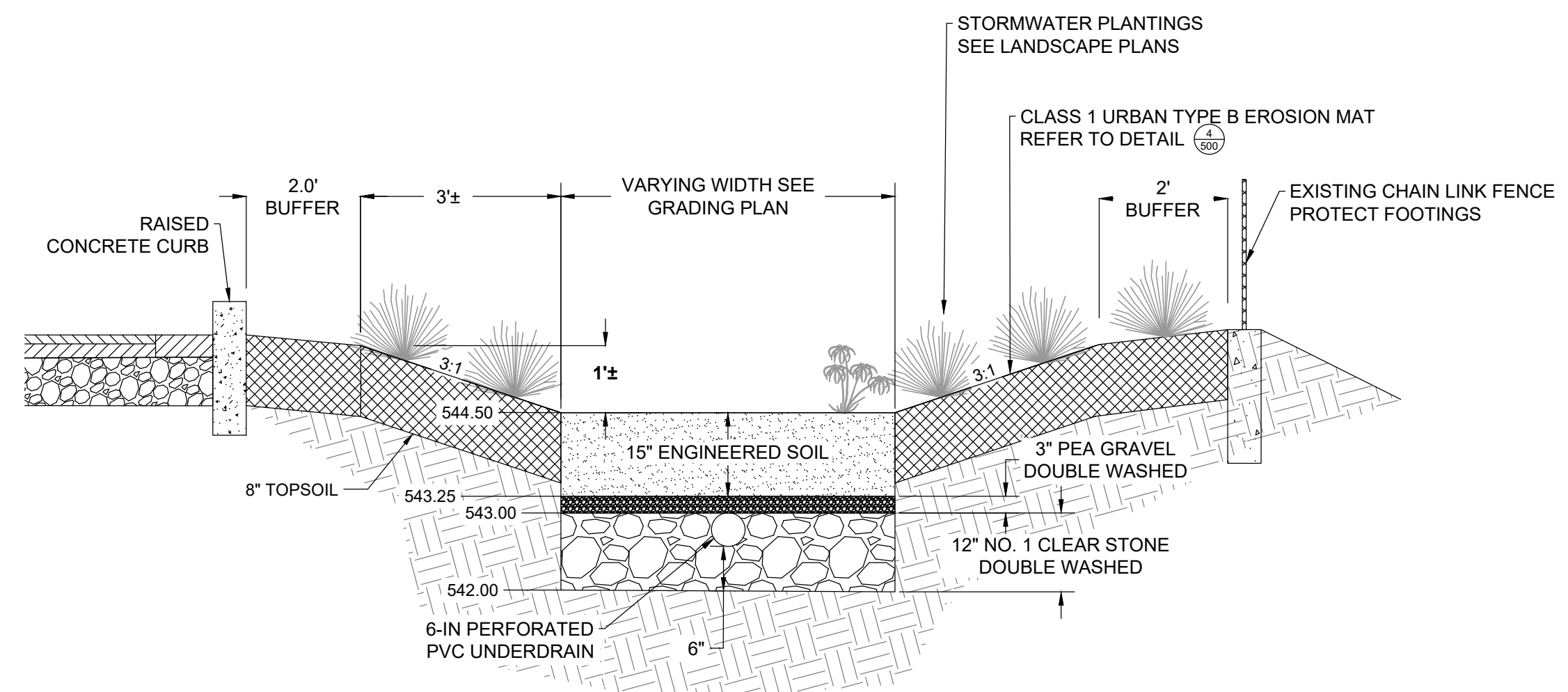
**4 BIOSWALE EROSION CONTROL MATTING INSTALLATION DETAIL**  
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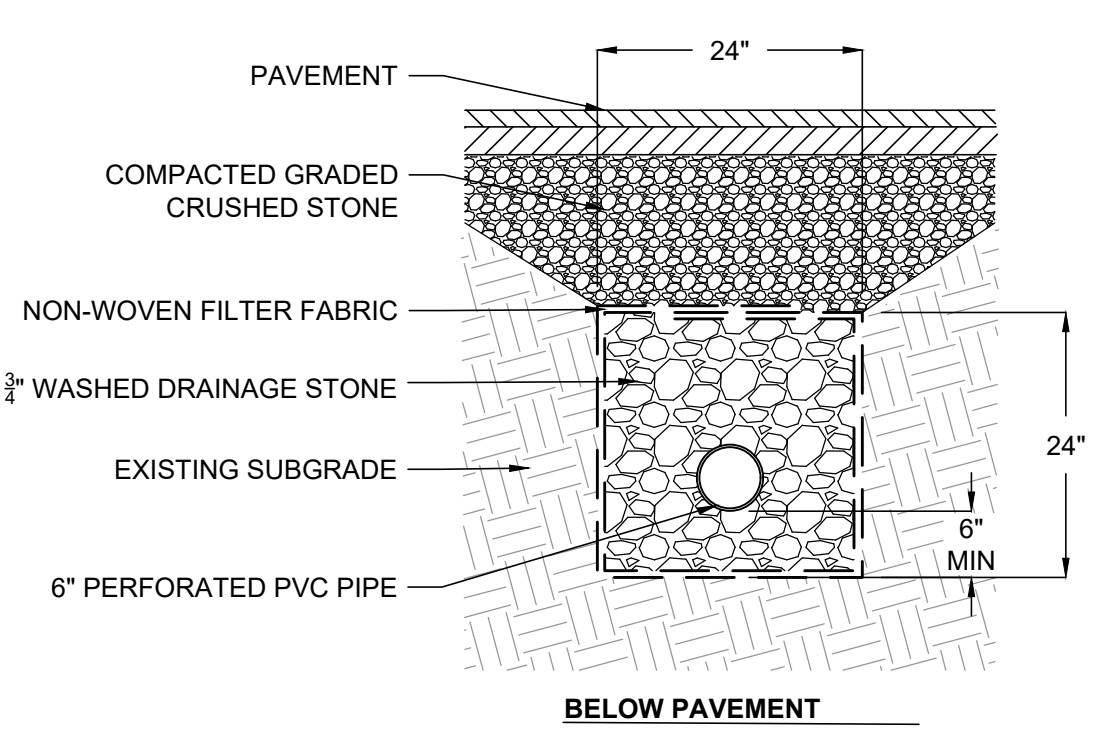
**5 PROPOSED TRAPPED MANHOLE**  
 NTS



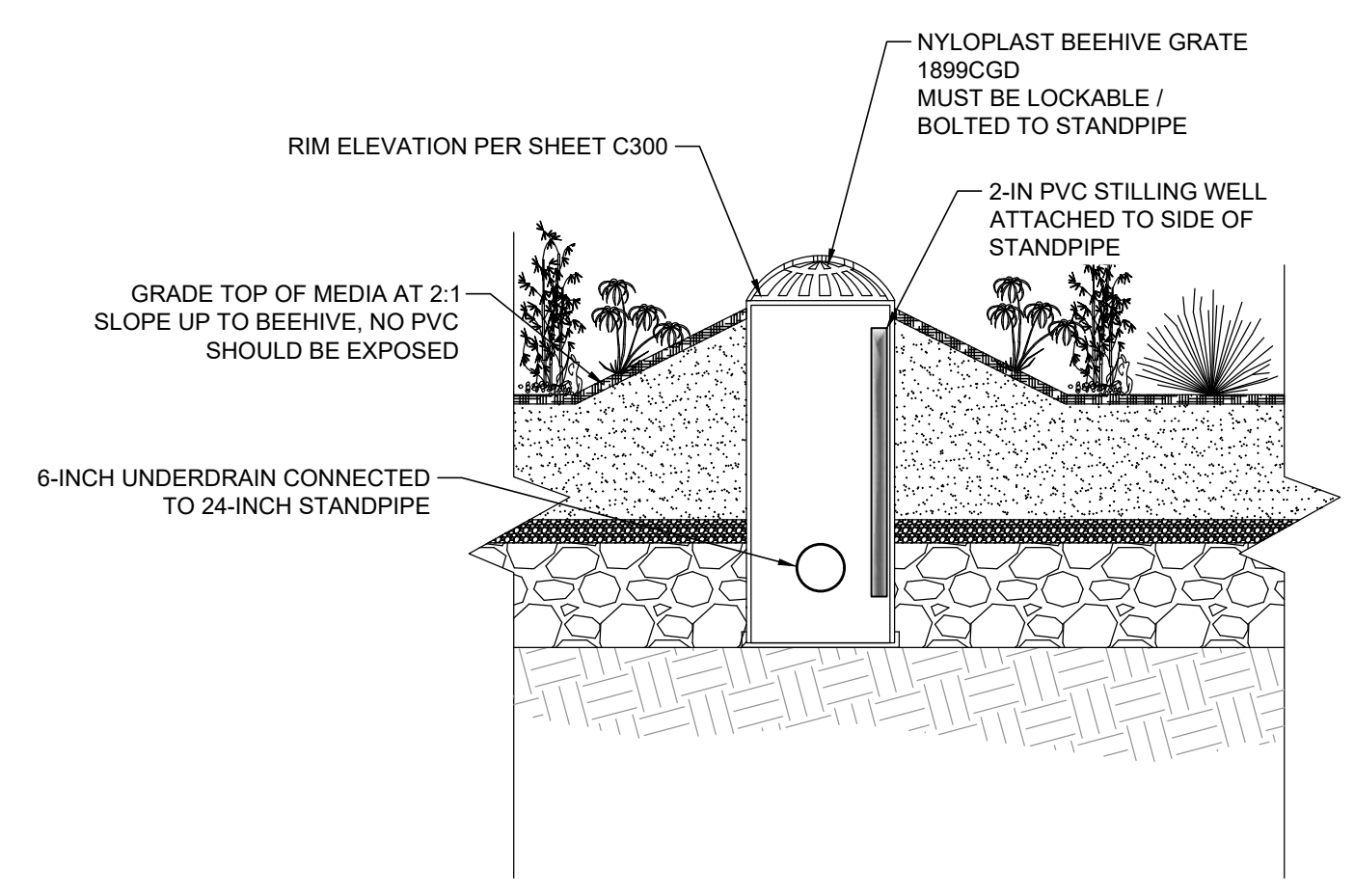
**6 CLEANOUT (TYPICAL)**  
 NTS



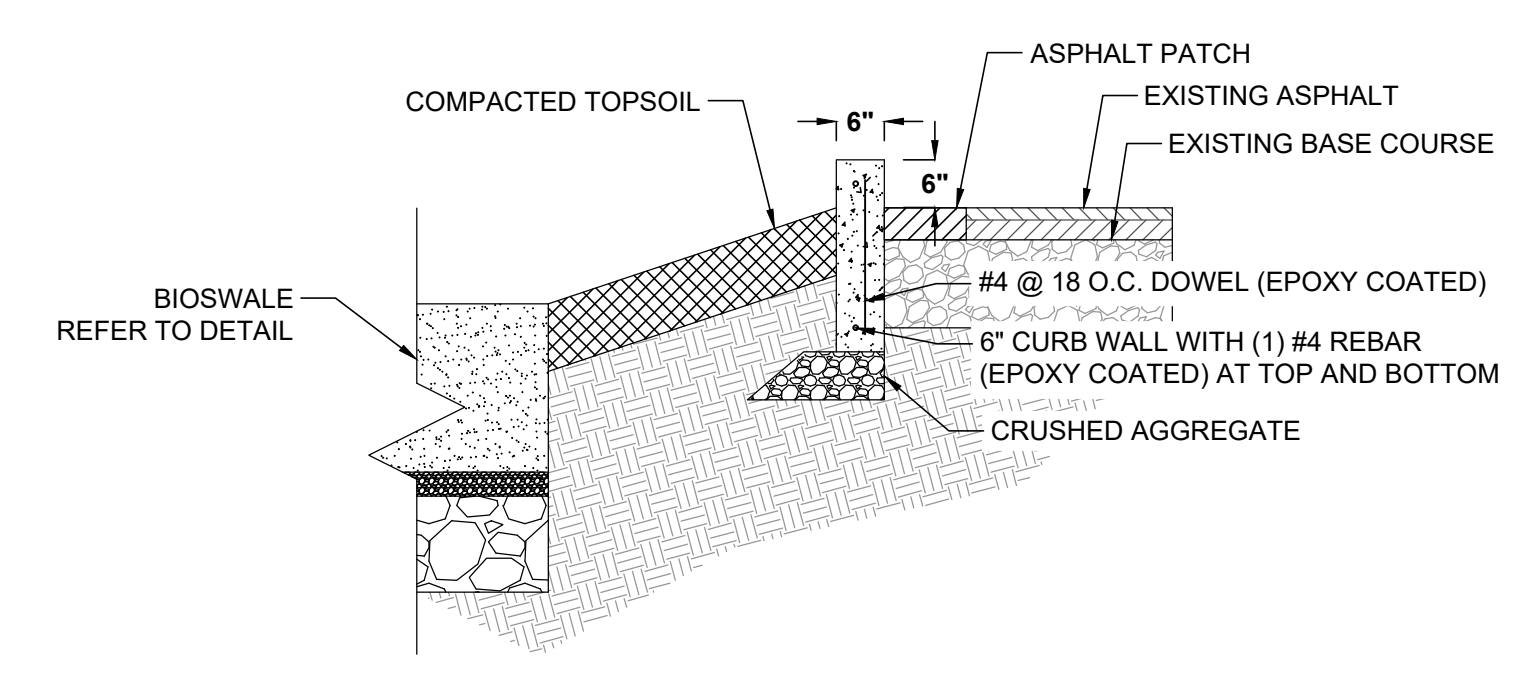
1 BIOSWALE  
NTS



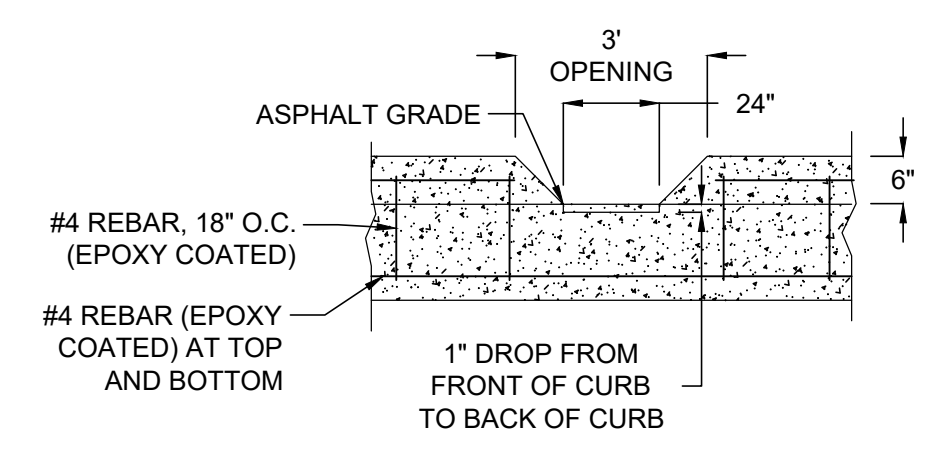
2 STORM SEWER TRENCH  
NTS



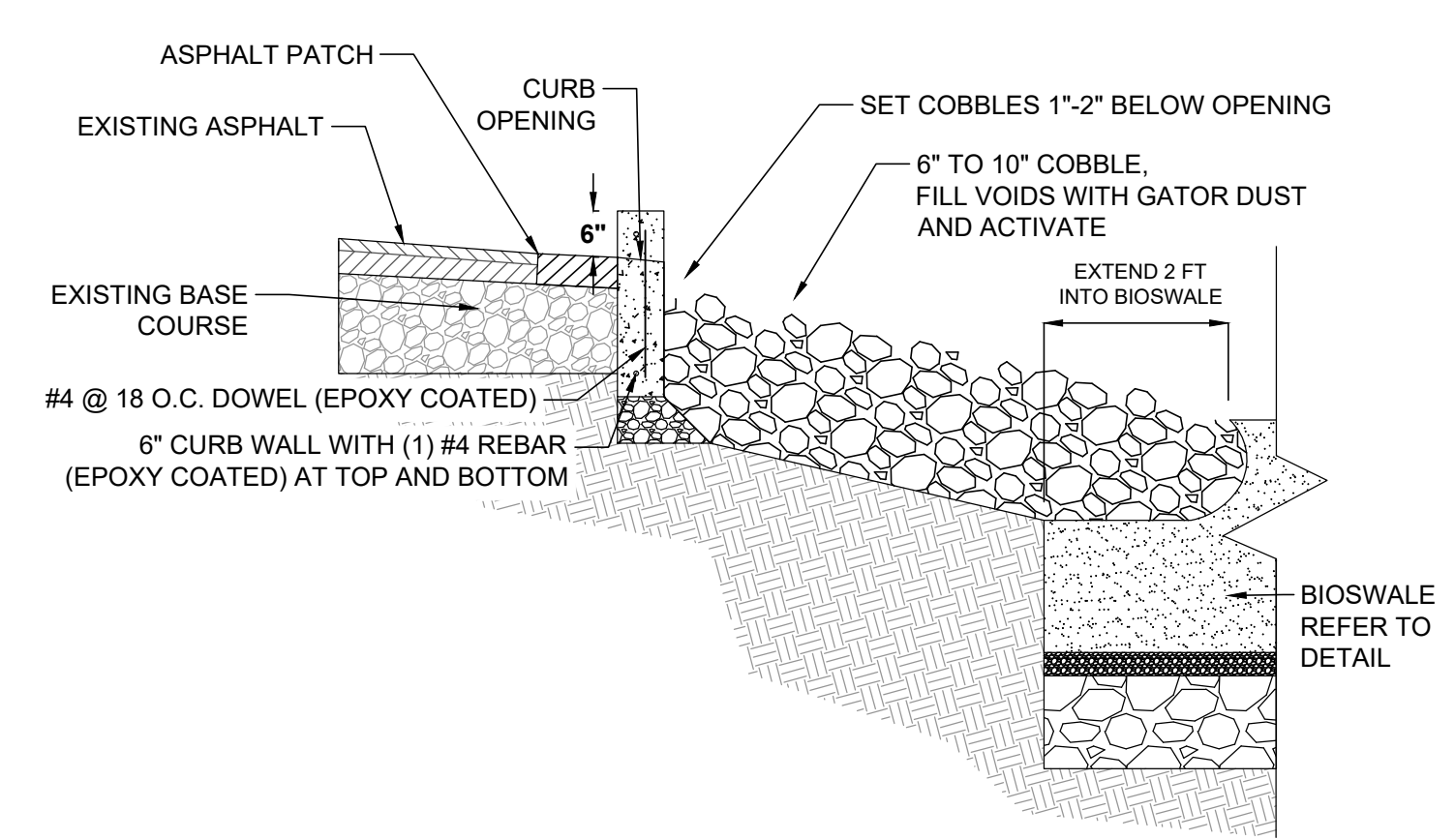
3 24-IN BIOSWALE STANDPIPE OVERFLOW  
NTS



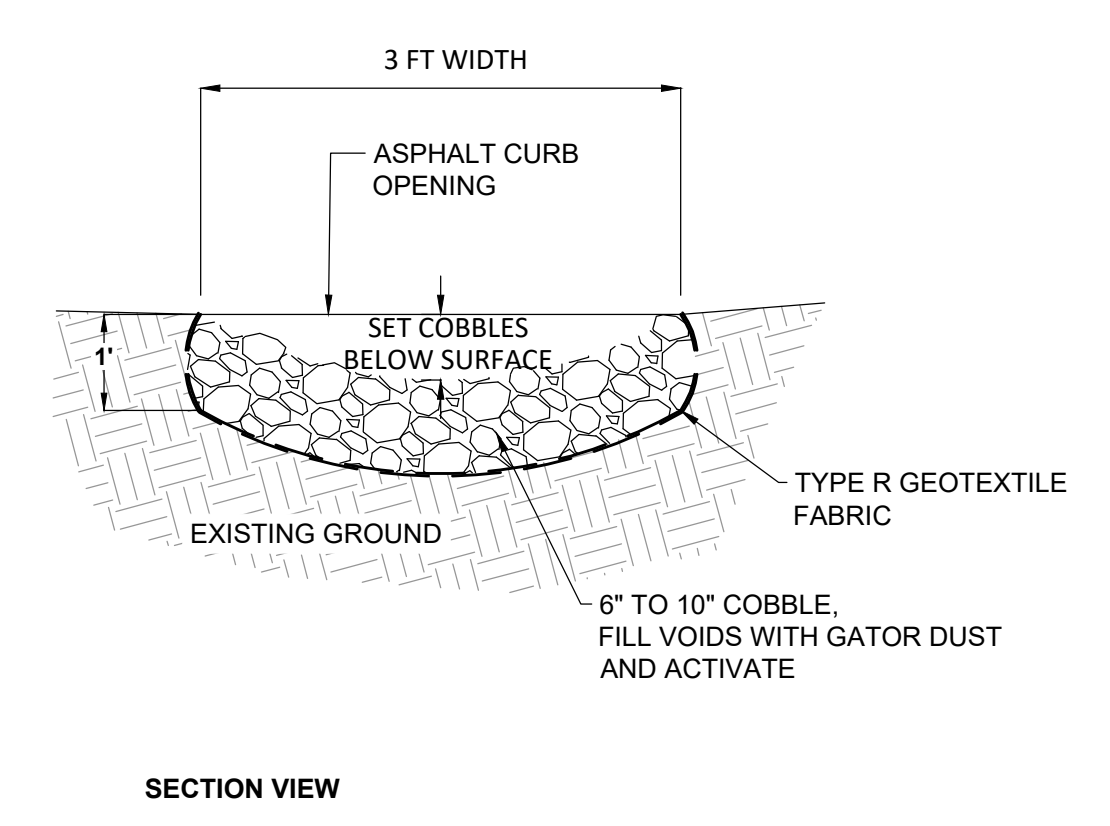
4 RAISED CONCRETE CURB AGAINST BIOSWALE  
NTS



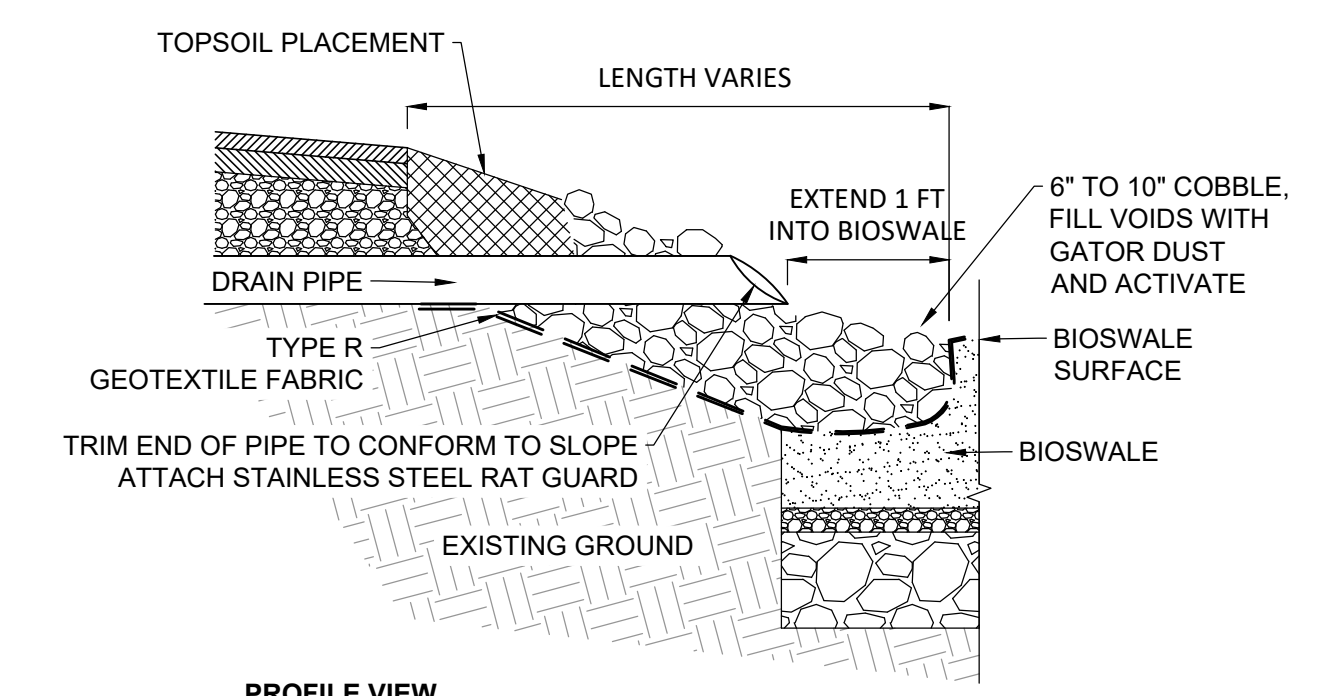
5 CONCRETE CURB OPENING  
NTS



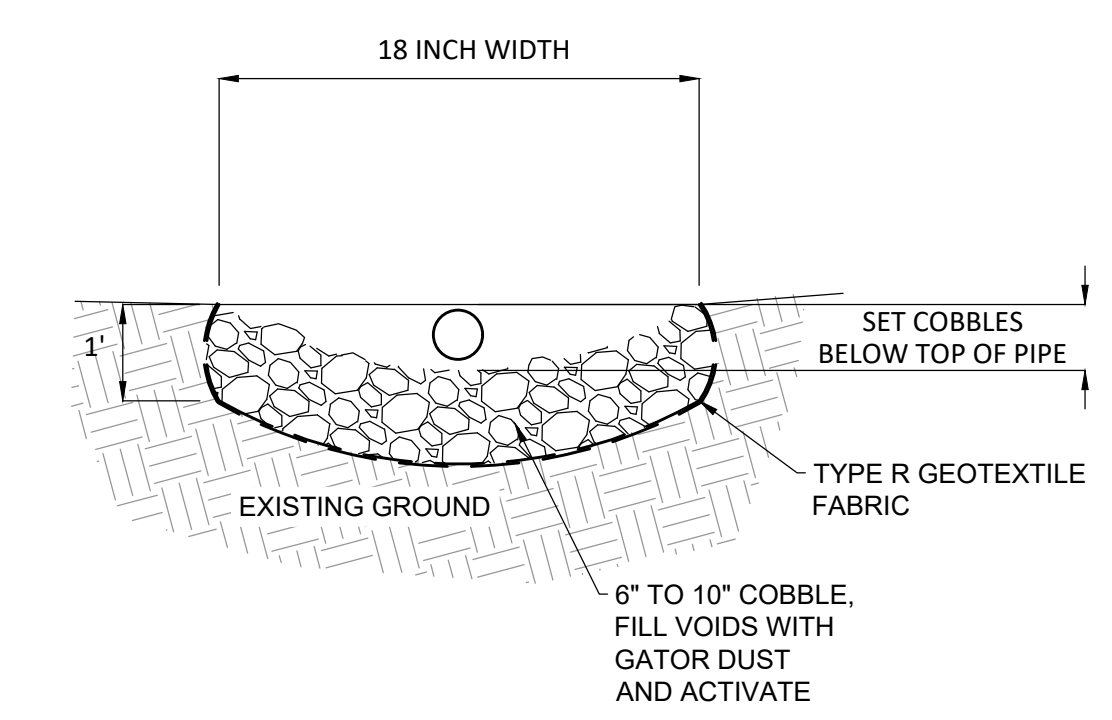
6 COBBLE CHANNEL INLET  
NTS



SECTION VIEW



PROFILE VIEW



SECTION VIEW

7 COBBLE DRAIN INLET  
NTS

SHEET NAME: <b>DETAILS</b>	PROJECT NAME:	PROJECT ADDRESS: <b>ALEXANDER MITCHELL ELEMENTARY SCHOOL 1728 S. 23RD STREET, MILWAUKEE, WI 53204</b>
	<b>2023 GREEN INFRASTRUCTURE UPGRADES</b>	

ISSUED FOR:	REV:	DATE:
50% CD		11/14/2022
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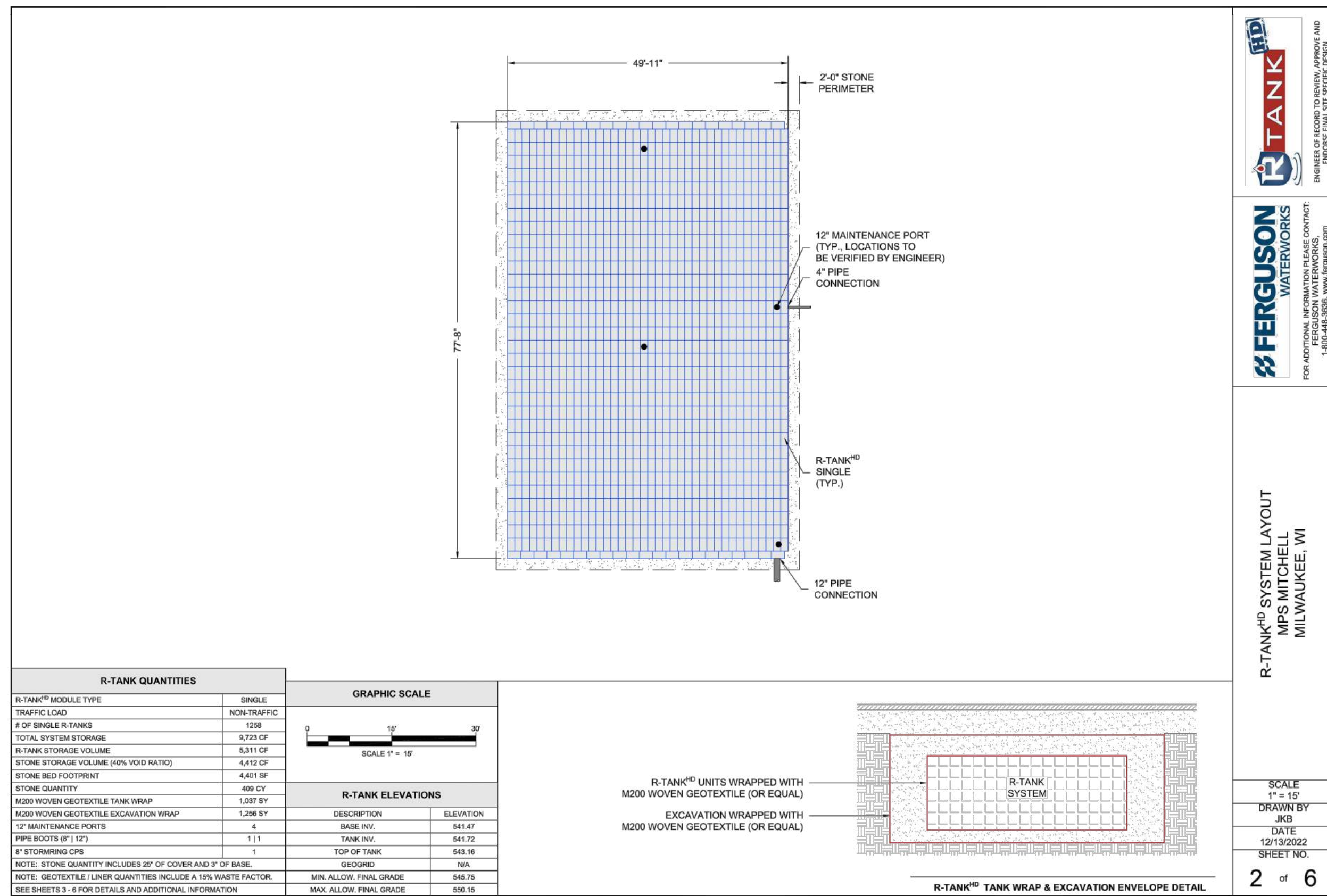
DRAWN BY:	JRZ
REVIEWED BY:	KLK
APPROVED BY:	CBG
DATE:	JANUARY 2023

SEAL AND SIGNATURE

PROJECT NUMBER: 8174 (DIVISION 3)

SITE NUMBER: 274

SHEET:  
**C501**



**R-TANK<sup>HD</sup> SYSTEM LAYOUT**  
MPS MITCHELL  
MILWAUKEE, WI

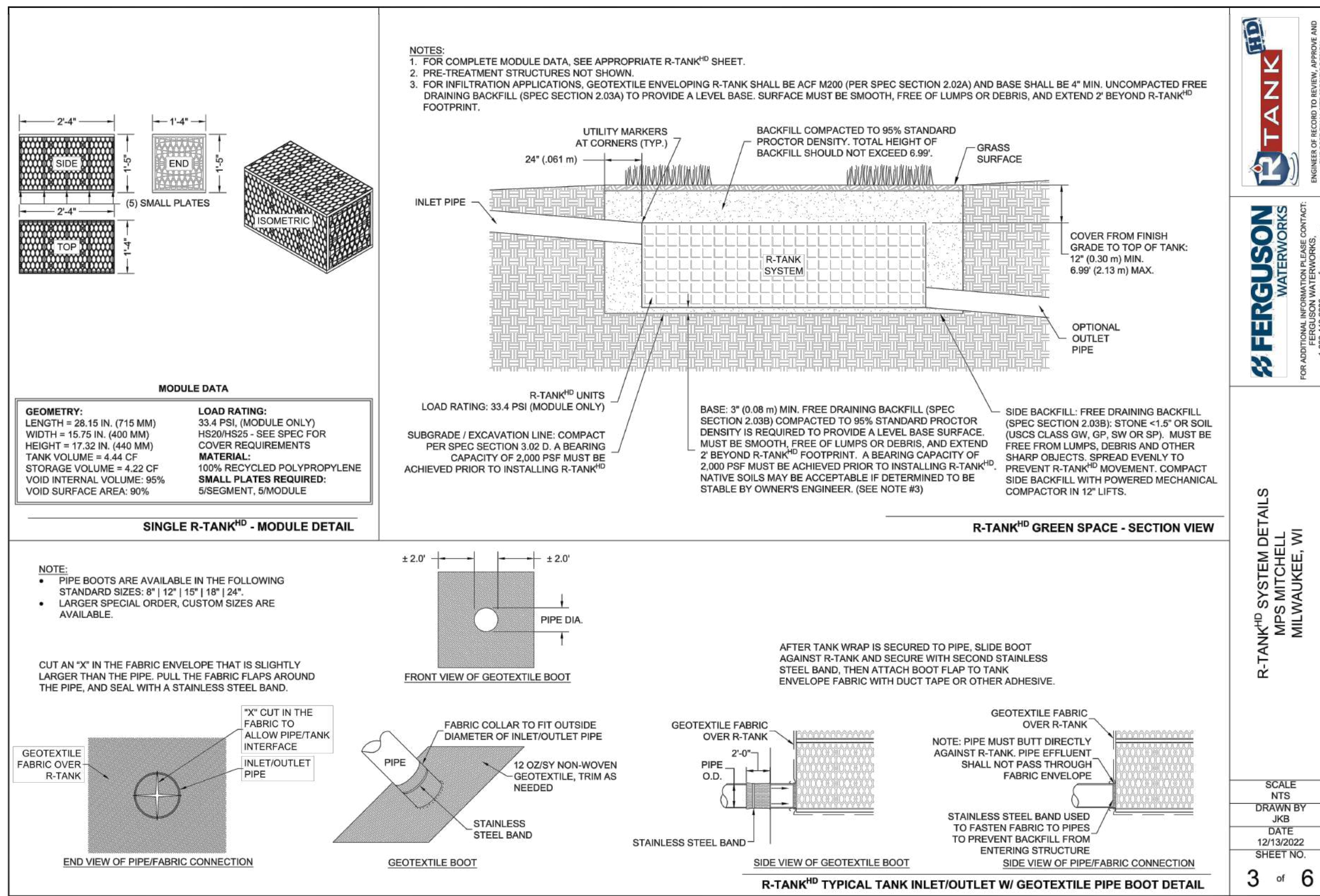
SCALE  
1" = 15'

DRAWN BY  
JKB

DATE  
12/13/2022

SHEET NO.  
2 of 6

1 R-TANK SYSTEM LAYOUT NTS



**R-TANK<sup>HD</sup> SYSTEM DETAILS**  
MPS MITCHELL  
MILWAUKEE, WI

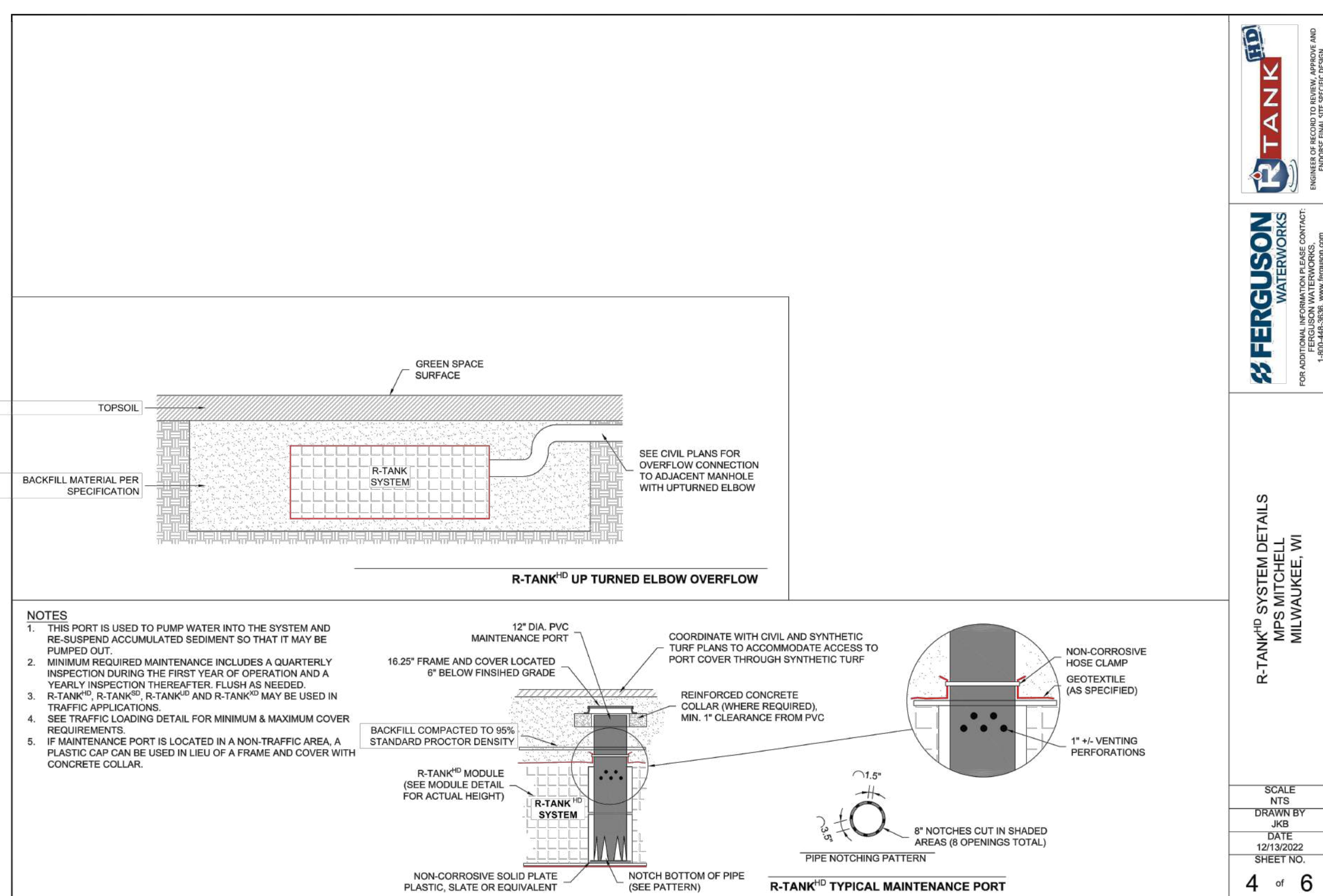
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DRAWN BY  
JKB

DATE  
12/13/2022

SHEET NO.  
3 of 6

2 R-TANK SYSTEM DETAILS NTS



**R-TANK<sup>HD</sup> SYSTEM DETAILS**  
MPS MITCHELL  
MILWAUKEE, WI

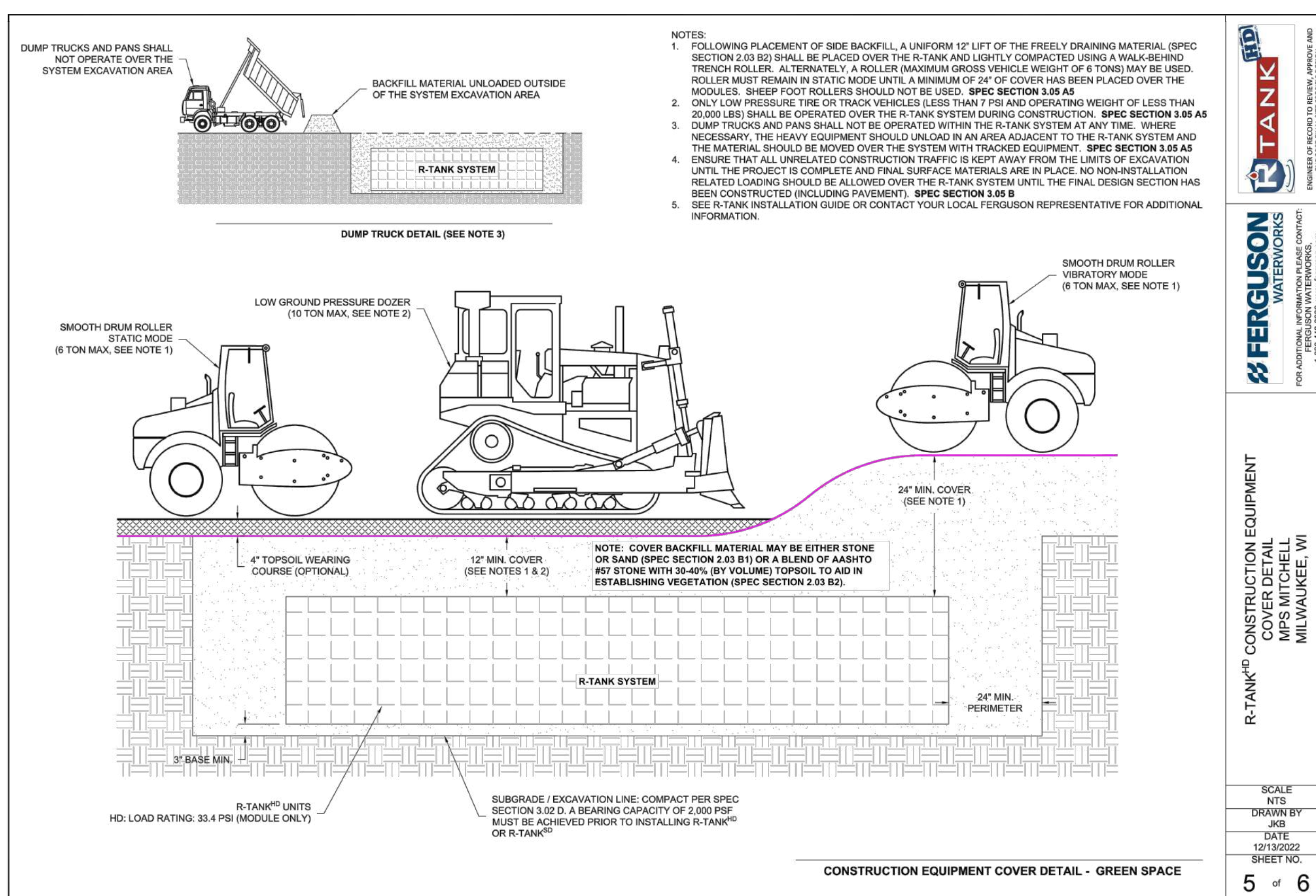
SCALE  
NTS

DRAWN BY  
JKB

DATE  
12/13/2022

SHEET NO.  
4 of 6

3 R-TANK SYSTEM DETAILS NTS



**R-TANK<sup>HD</sup> CONSTRUCTION EQUIPMENT COVER DETAIL**  
MPS MITCHELL  
MILWAUKEE, WI

SCALE  
NTS

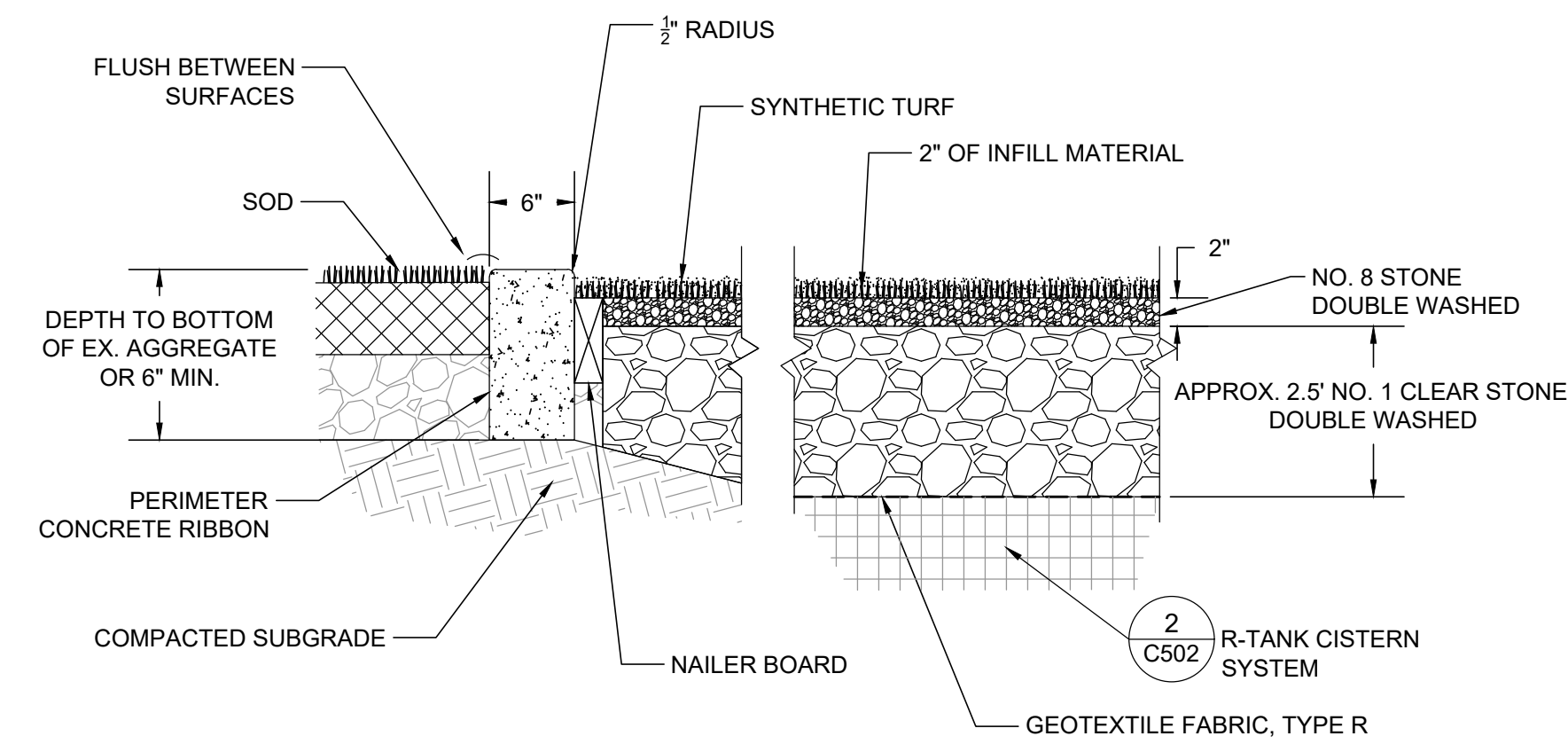
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DATE  
12/13/2022

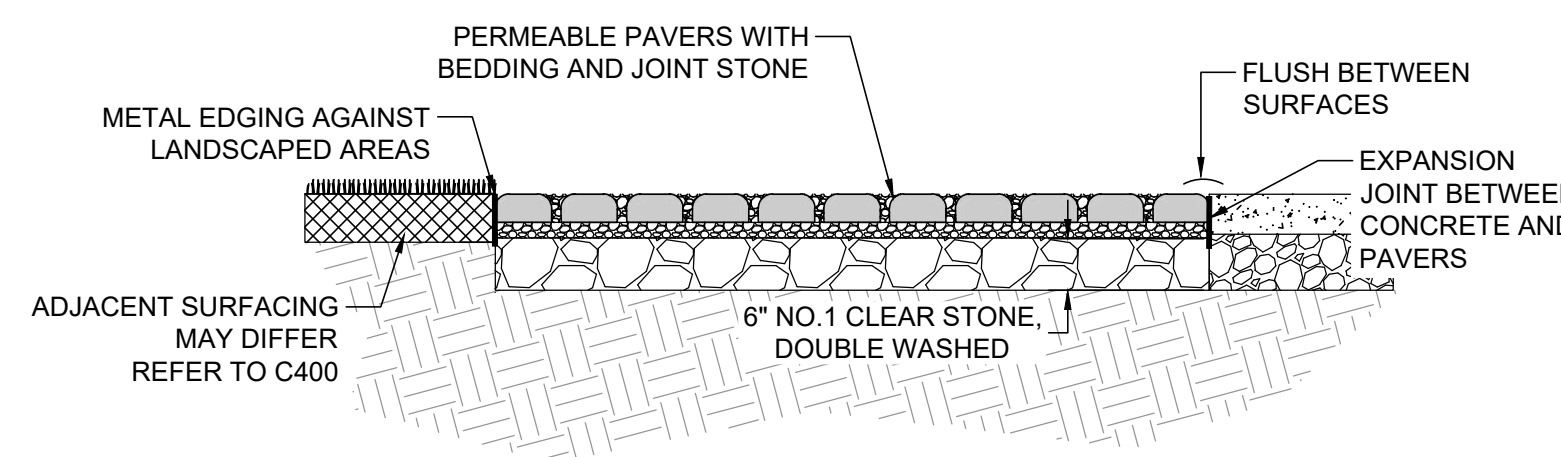
SHEET NO.  
5 of 6

4 R-TANK CONSTRUCTION EQUIPMENT COVER DETAIL NTS

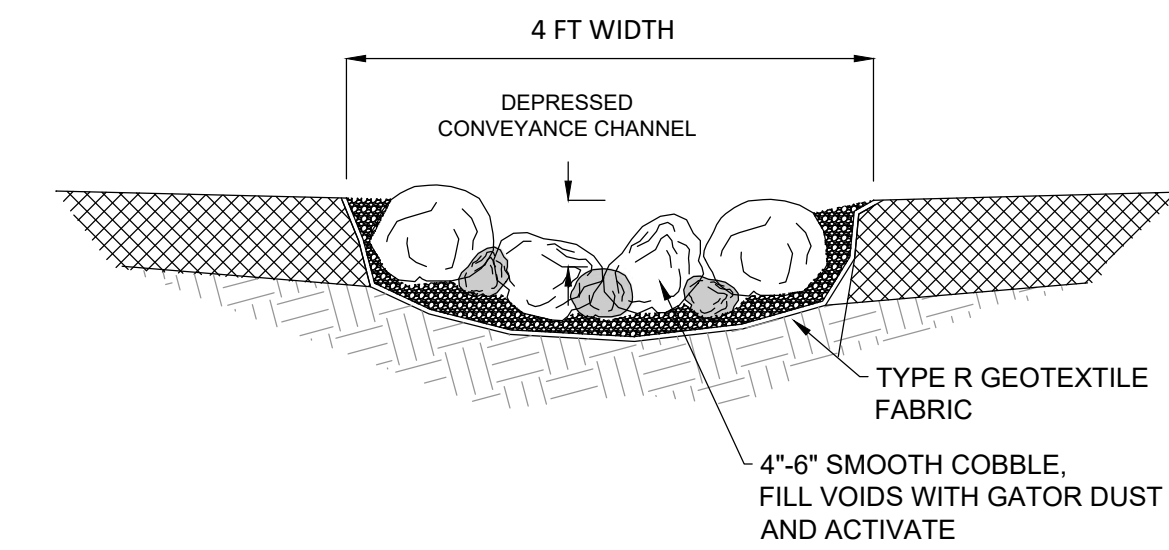
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PROJECT NAME:	2023 GREEN INFRASTRUCTURE UPGRADES		
PROJECT ADDRESS:	ALEXANDER MITCHELL ELEMENTARY SCHOOL 1728 S. 23RD STREET, MILWAUKEE, WI 53204		
ISSUED FOR:	REV:	DATE:	
50% CD		11/14/2022	
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100% CD		1/23/2023	
DRAWN BY:	JKB	REVISED BY:	JKB
REVIEWED BY:	KLK	APPROVED BY:	CBG
DATE:	JANUARY 2023	SCALE AND SIGNATURE	
PROJECT NUMBER:	8174 (DIVISION 3)	SHEET:	C502
SITE NUMBER:	274		



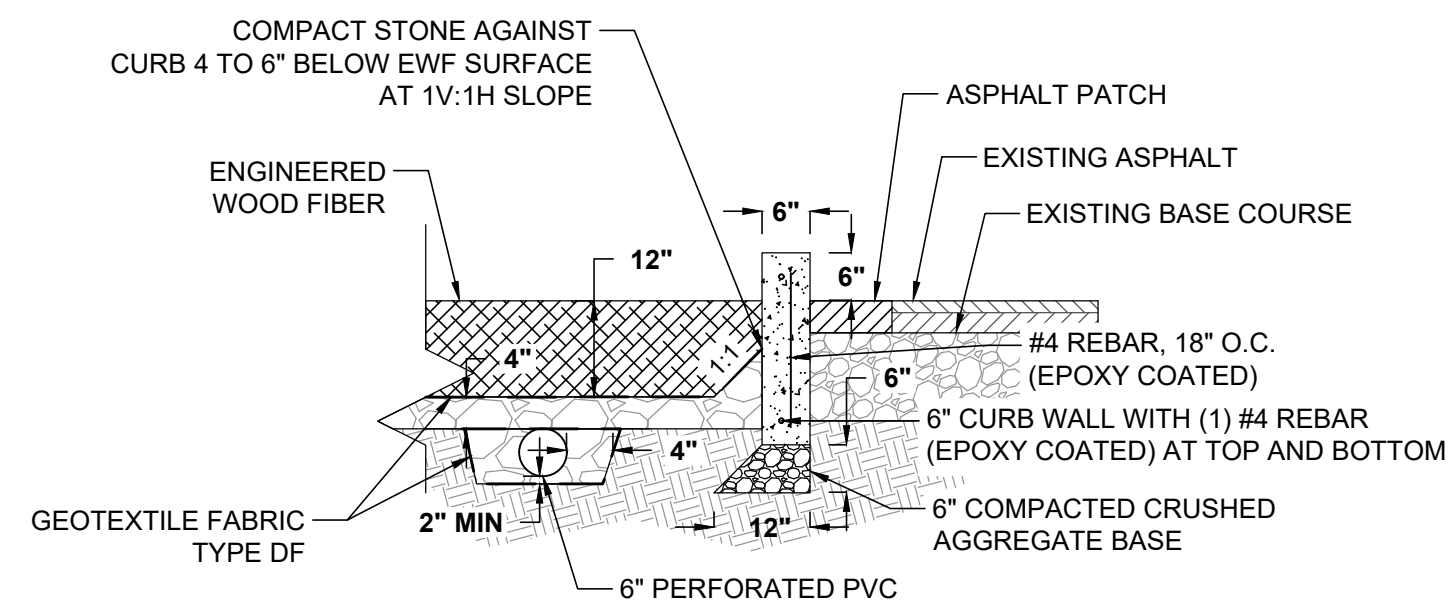
1 FLUSH CONCRETE CURB AND TURF SOCCER FIELD  
NTS



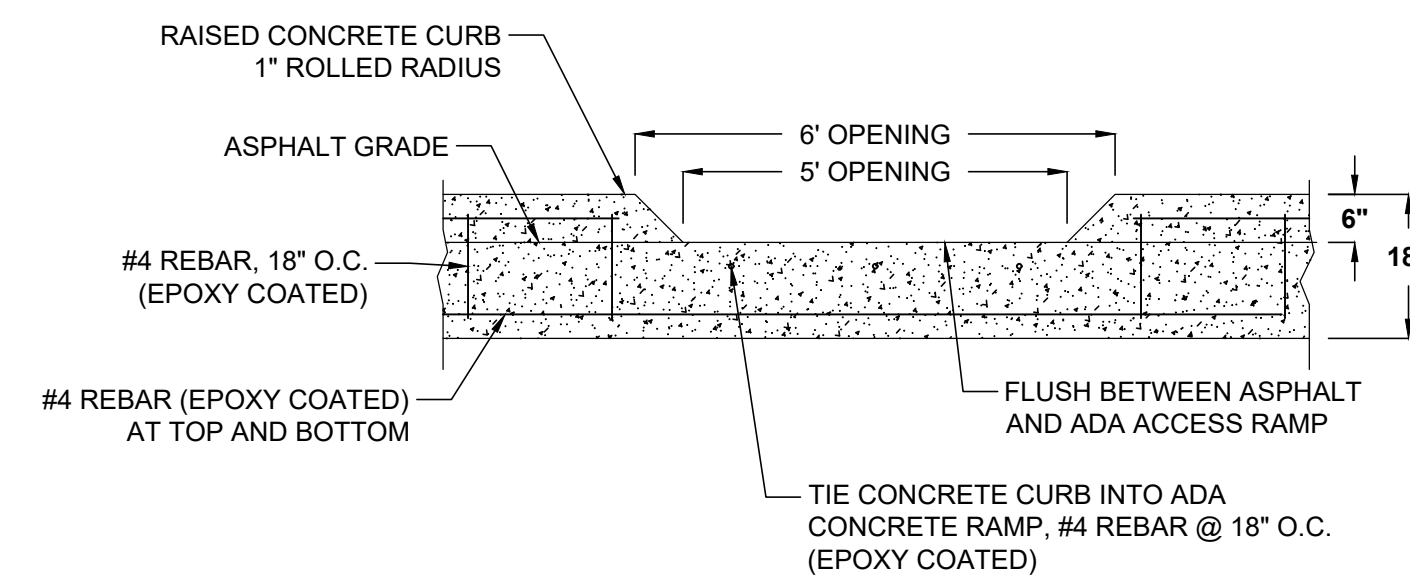
2 PERMEABLE PAVERS - NO STORAGE (TYP.)  
NTS



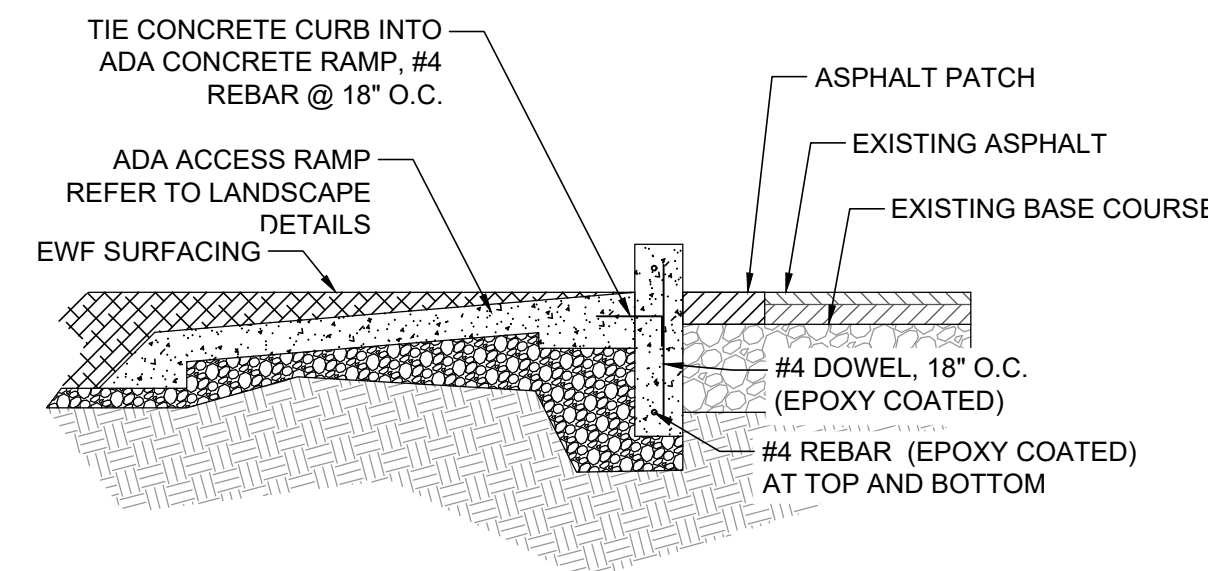
3 COBBLE SPLASH PAD  
NTS



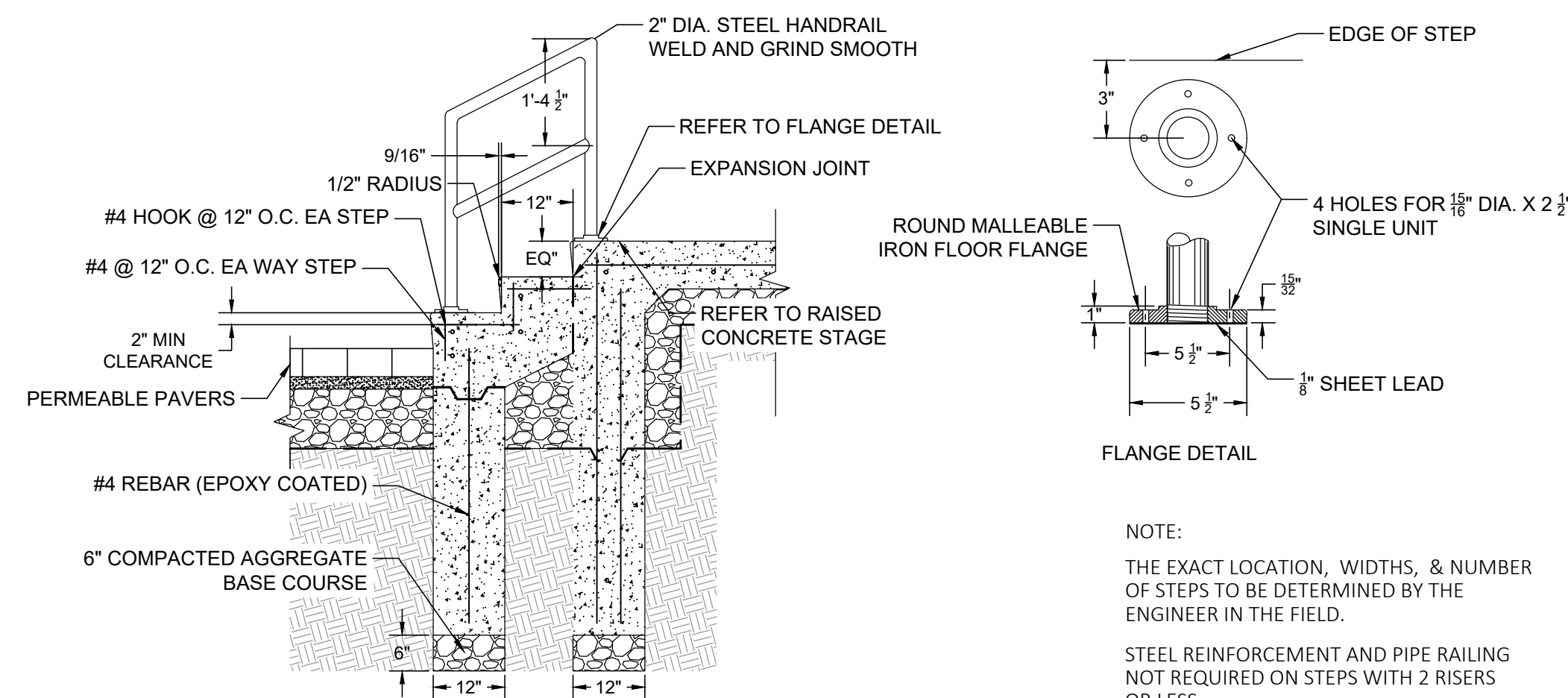
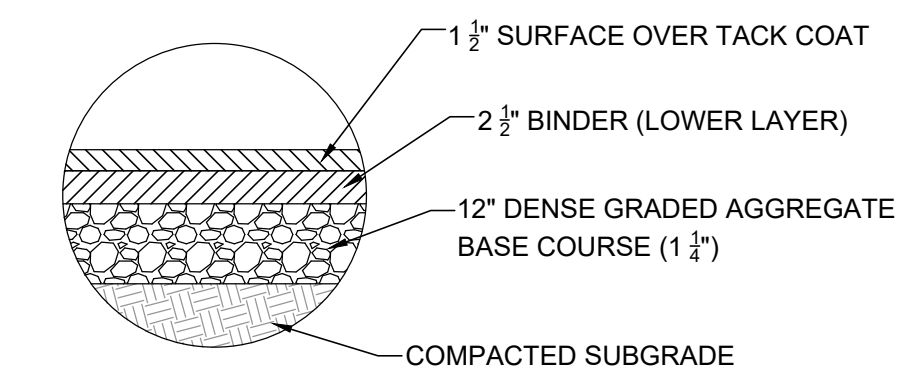
4 RAISED CONCRETE CURB AND ENGINEERED WOOD FIBER  
NTS



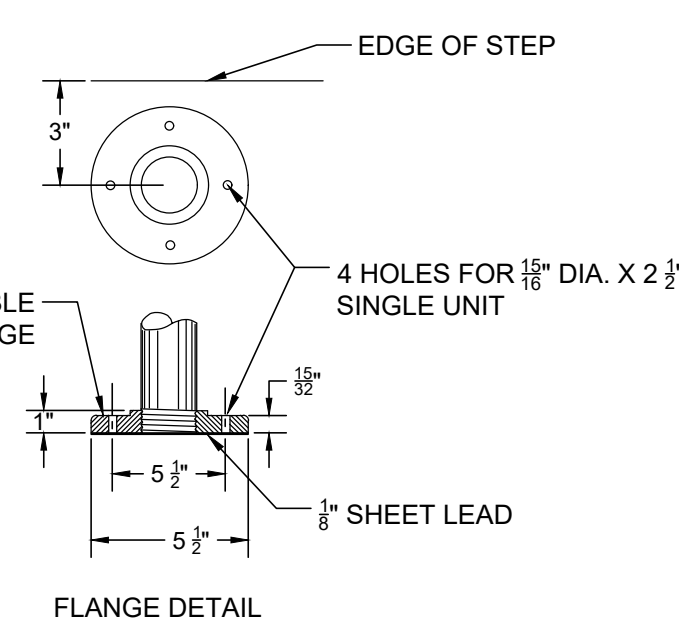
5 CONCRETE CURB OPENING FOR ADA ACCESS RAMP (TYP.)  
NTS



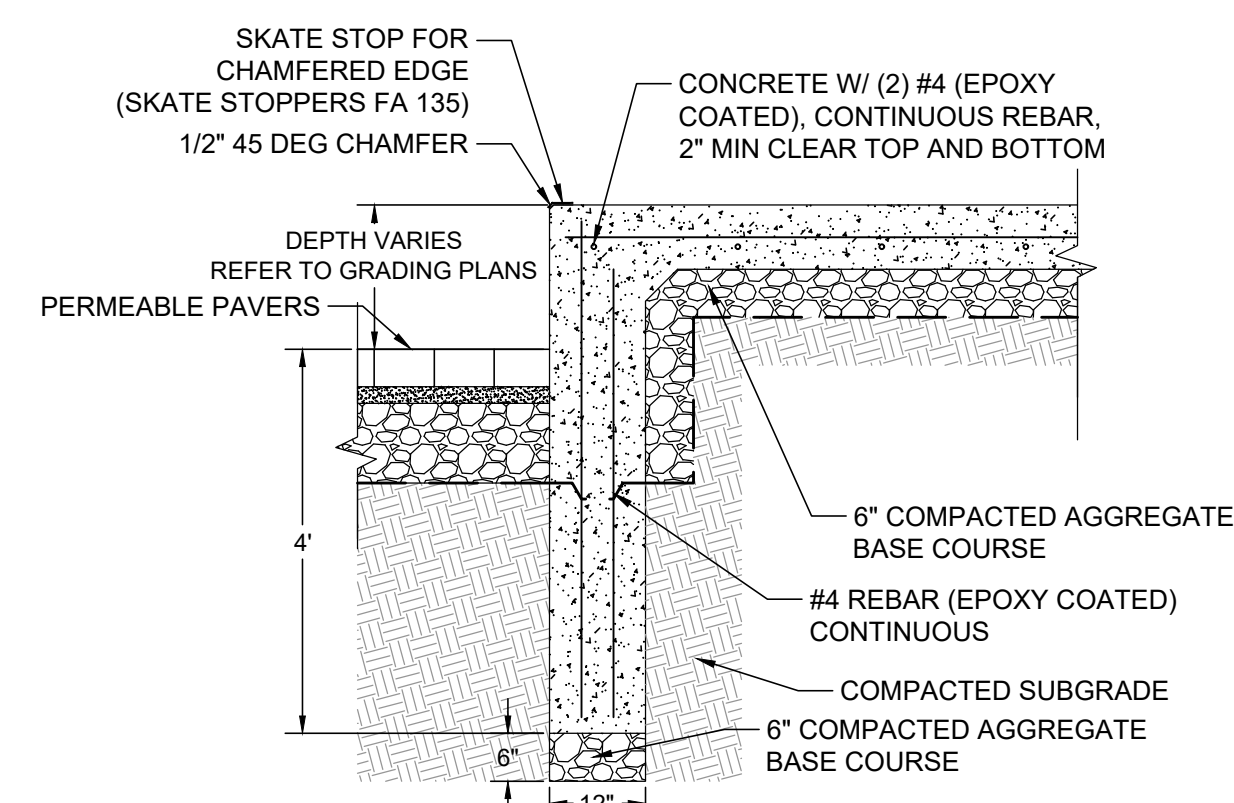
6 ASPHALT PAVING  
NTS



7 CONCRETE STAGE STEPS  
NTS

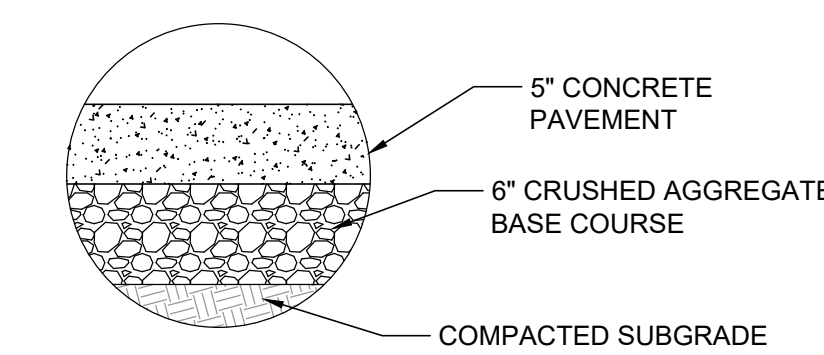


NOTE:  
THE EXACT LOCATION, WIDTHS, & NUMBER OF STEPS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.  
STEEL REINFORCEMENT AND PIPE RAILING NOT REQUIRED ON STEPS WITH 2 RISERS OR LESS.

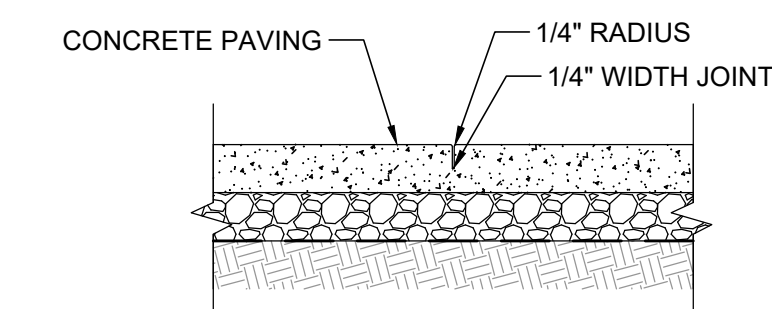


8 RAISED CONCRETE STAGE EDGE  
NTS

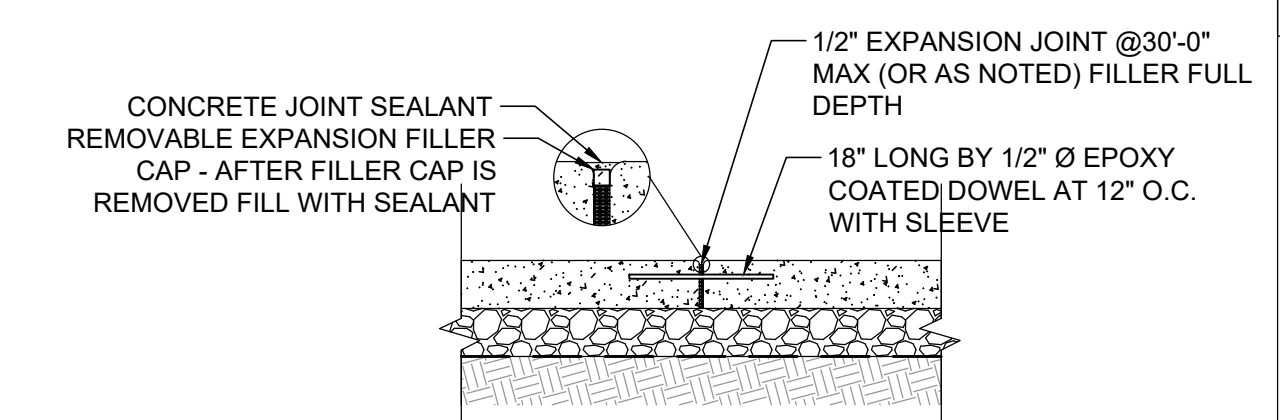
SKATE STOP NOTES:  
1. SKATE STOPPERS TO BE INSTALLED 18 INCHES FROM ALL CORNERS.  
2. SPACED EVENLY 24-36" O.C. ACROSS RAISED STRAIGHT SECTIONS.  
3. SHALL NOT BE PLACED ON ANY JOINTS.  
4. USE KATE STOPPERS FA 135 OR APPROVED EQUAL.



9 CONCRETE PAVING  
NTS



10 CONCRETE TOOLED CONTROL JOINT  
NTS



11 CONCRETE EXPANSION JOINT  
NTS

SHEET NAME: <b>DETAILS</b>	PROJECT NAME: <b>2023 GREEN INFRASTRUCTURE UPGRADES</b>	PROJECT ADDRESS: <b>ALEXANDER MITCHELL ELEMENTARY SCHOOL 1728 S. 23RD STREET, MILWAUKEE, WI 53204</b>
-------------------------------	--	--

ISSUED FOR:	REV:	DATE:
50% CD		11/14/2022
90% CD		12/22/2022
100% CD		1/23/2023

DRAWN BY:	JRZ
REVIEWED BY:	KLK
APPROVED BY:	CBG
DATE:	JANUARY 2023

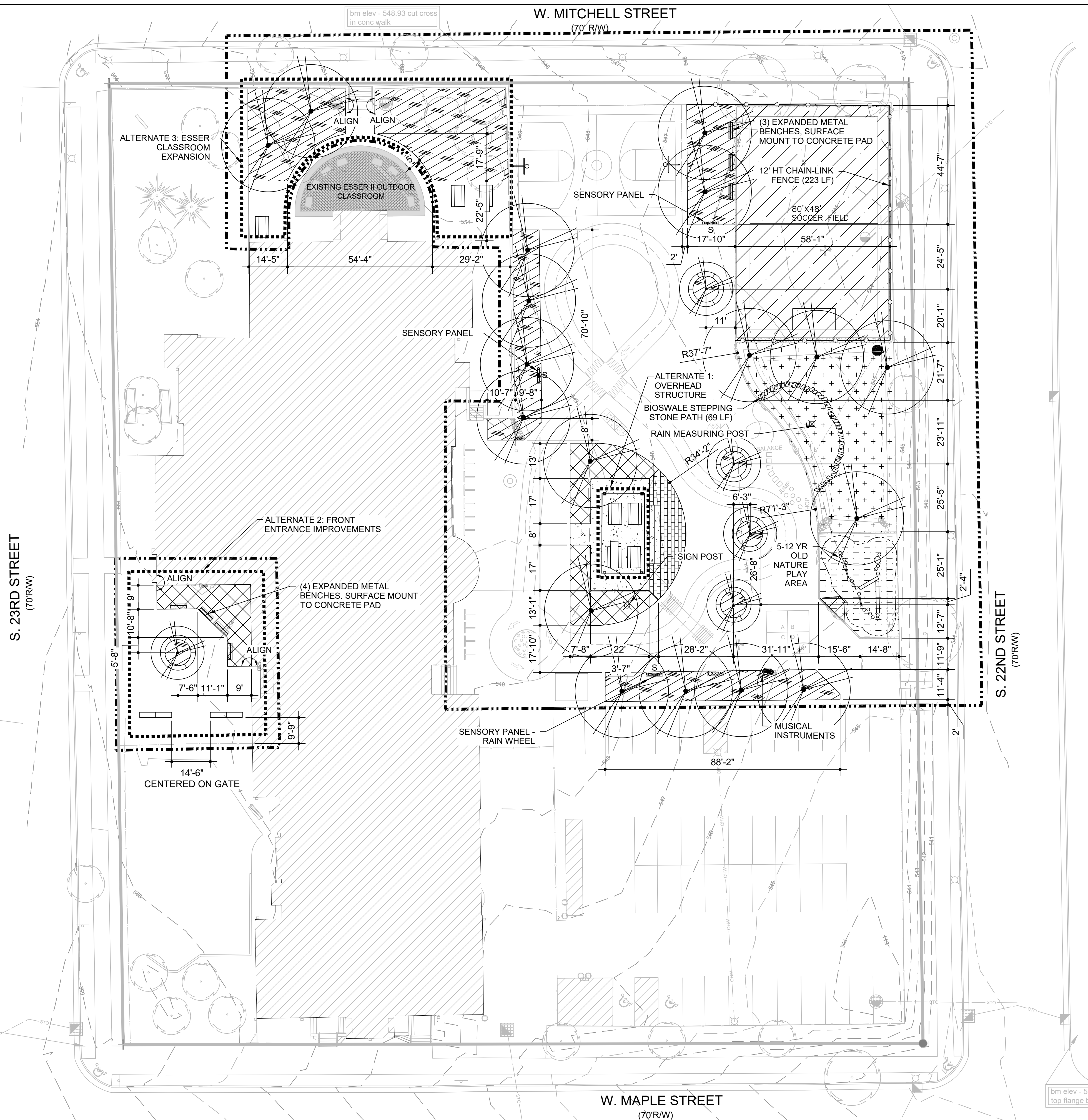
SEAL AND SIGNATURE

PROJECT NUMBER: 8174 (DIVISION 3)

SITE NUMBER: 274

SHEET:

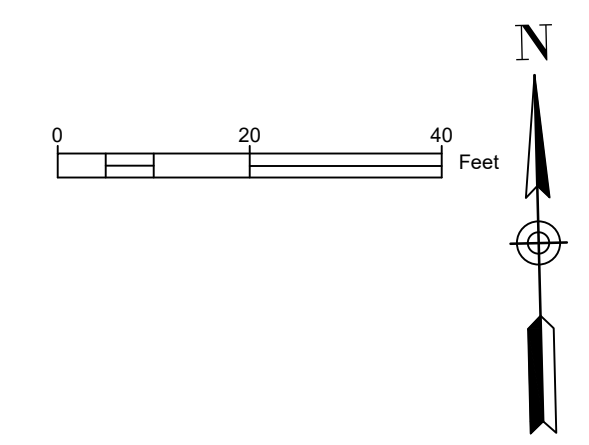
**C503**



**MATERIALS LEGEND**

- 12' CHAINLINK FENCE, SEE SPECS
- EQUIPMENT USE ZONE - EXTEND A MIN. 6' OF IMPACT SURFACING BEYOND EDGE OF PLAY EQUIPMENT, SEE SPECS
- PROPOSED TREE  
SEE PLANTING PLAN
- EXISTING TREE
- PLANTING AREA 1 - LAWN / MICROCLOVER  
SEE PLANTING PLAN
- PLANTING AREA 2 - URBAN UPLANDS  
SEE PLANTING PLAN
- BIOSWALE PLANTING  
SEE PLANTING PLAN
- CONCRETE PAVING  
SEE CIVIL PLANS
- ARTIFICIAL TURF SURFACE  
SEE CIVIL PLANS
- 12" ENGINEERED WOOD FIBER SURFACE  
SEE CIVIL PLANS
- PERMEABLE PAVERS SURFACE  
SEE CIVIL PLANS
- EXPANDED MESH BENCHES (TYP. OF 7)  
AS SPECIFIED
- CONCRETE BENCHES (TYP. OF 4) (2)  
AS SPECIFIED (L402)
- PICNIC TABLE & ADA PICNIC TABLE (TYP. OF 7)  
AS SPECIFIED
- CONCRETE BENCH PLANTERS (TYP. OF 5) (3-4)  
(L402)
- BIOSWALE STEPPING STONE PATH (2)  
(L501)
- CONCRETE ADA RAMP (1)  
(L401)
- OVERHEAD STRUCTURE (L403)  
(L404)
- RAIN MEASURING POST (4)  
(L400)
- SIGN POST (5)  
(L401)
- SENSORY BOARD (TYP OF 3)  
SEE SPECS
- MUSICAL INSTRUMENTS (TYP OF 2)  
SEE SPECS
- BASKETBALL HOOP (TYP OF 2)  
SEE SPECS

NOTES:  
FOR ADDITIONAL LAYOUT INFORMATION A CAD BASE (.DWG FILE) CAN BE PROVIDED TO THE CONTRACTOR UPON REQUEST



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1124 NORTH 11TH STREET  
MILWAUKEE, WI 53205-0259  
PHONE: 414-283-4600  
FAX: 414-283-4682

SHEET NAME: **MATERIALS & LAYOUT PLAN**  
PROJECT NAME: **2023 GREEN INFRASTRUCTURE UPGRADES**  
PROJECT ADDRESS: **ALEXANDER MITCHELL ELEMENTARY SCHOOL  
1728 S. 23RD STREET, MILWAUKEE, WI 53204**

ISSUED FOR:	REV:	DATE:
50% CD		11/14/2022
95% CD		12/22/2022
100% CD		1/23/2023

DRAWN BY: ZWA  
REVIEWED BY: KW  
APPROVED BY: MM  
DATE: January 2023

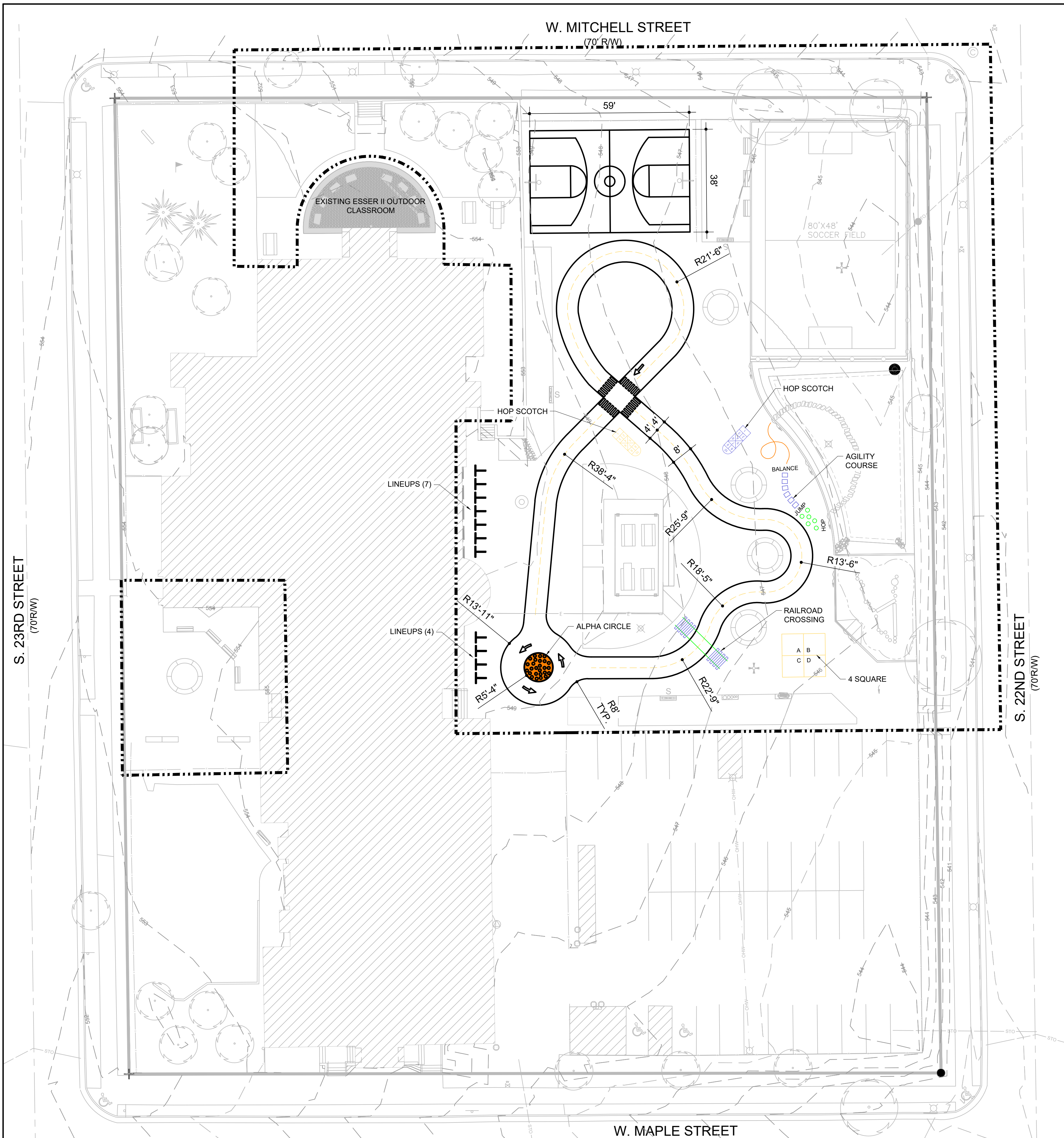
SEAL AND SIGNATURE  
  
KERRY WHITE  
LA-822-14  
WAUWATOSA, WIS.

PROJECT NUMBER: 8174 (DIVISION 3)

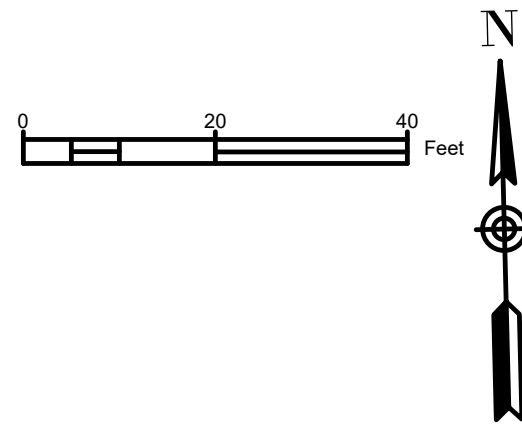
SITE NUMBER: 274

SHEET: **L100**





**\*\*SHEET MUST BE PRINTED IN COLOR\*\***



**PAINT LEGEND**

	PANTONE 7683
	PANTONE 802 C
	PANTONE 102 C
	PANTONE 804 C
	WHITE

- PAINT NOTES**
1. REFERENCE SPECIFICATIONS FOR COLOR AND APPLICATION INFORMATION
  2. ALL PAVEMENT MARKINGS ARE PER MPS STANDARD TEMPLATES UNLESS OTHERWISE STATED
  3. PREP SURFACE AS SPECIFIED, SEE CIVIL PLANS
  4. A COPY OF MPS' STANDARD LINE AND GAME STRIPING DETAILS IS AVAILABLE UPON REQUEST FROM THE DIVISION OF FACILITIES AND MAINTENANCE SERVICES. (414) 283-4600

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 MILWAUKEE, WI 53205-0259  
 PHONE: 414-283-4600  
 FAX: 414-283-4682

SHEET NAME: **PAVEMENT MARKINGS PLAN**  
 PROJECT NAME: **2023 GREEN INFRASTRUCTURE UPGRADES**  
 PROJECT ADDRESS: **ALEXANDER MITCHELL ELEMENTARY SCHOOL  
 1728 S. 23RD STREET, MILWAUKEE, WI 53204**

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 REVIEWED BY: KW  
 APPROVED BY: MM  
 DATE: January 2023

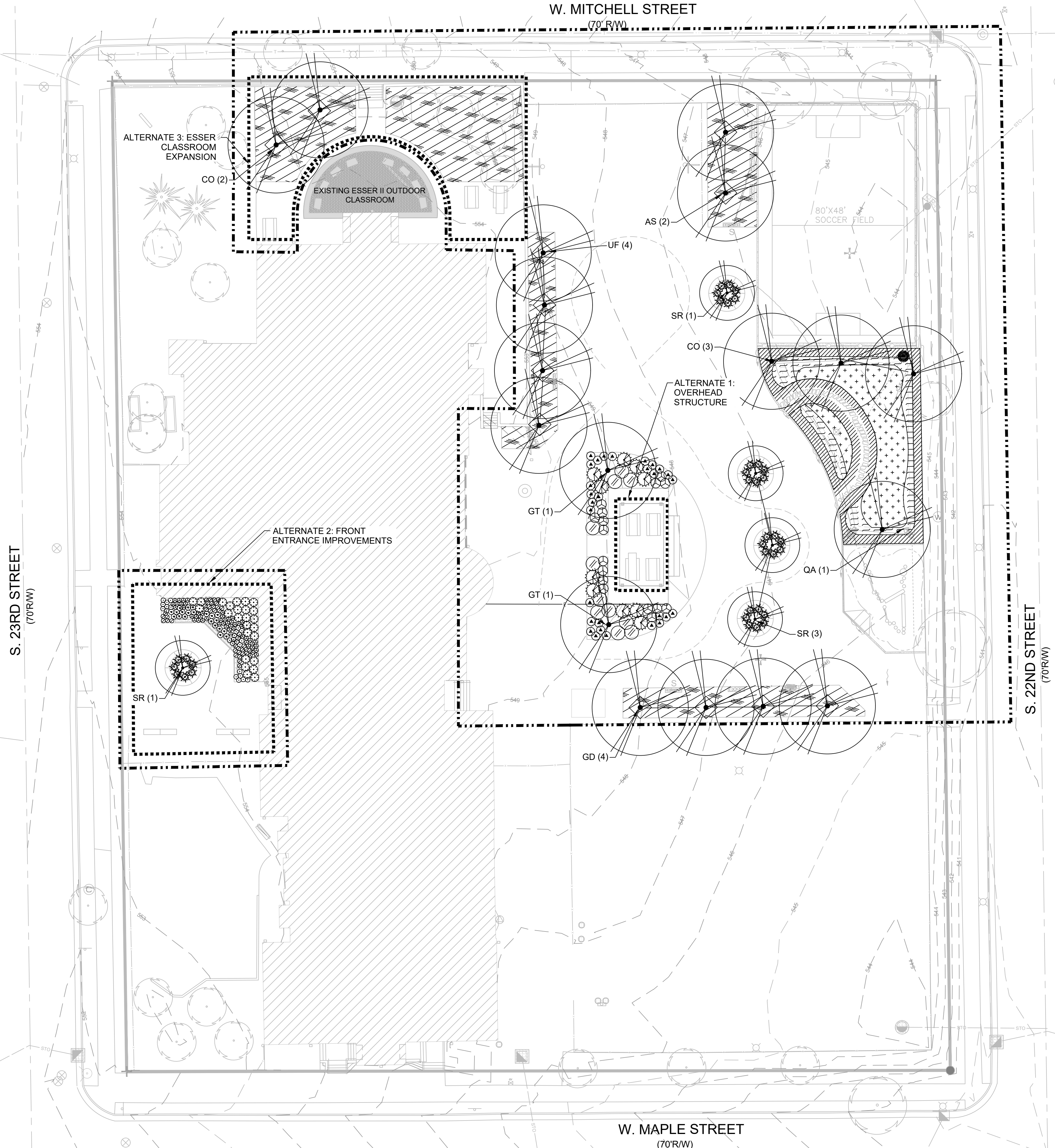
SEAL AND SIGNATURE  
  
 KERRY WHITE  
 LA-822-14  
 WAUWATOSA  
 WIS.

PROJECT NUMBER: 8174 (DIVISION 3)

SITE NUMBER: 274

SHEET:  
**L200**

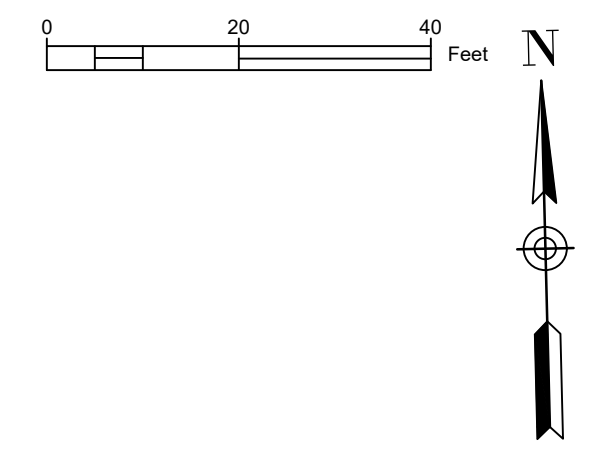




**PLANTING LEGEND**

EXISTING TREE	QUANTITIES		
	BASE BID	ALT 2	ALT 3
PROPOSED TREES <i>Diamond symbol indicates tree installation and protection staking per detail 3/L501. Trees without protection staking shall be staked per detail 3/L500.</i>			
AS   <i>Acer saccharum</i> 'Green Mountain' - Green Mountain Sugar Maple 3" Cal. B&B, Mature Size: 60' ht. x 45' spread	2	-	-
CO   <i>Celtis occidentalis</i> - Common Hackberry 3" Cal. B&B, Mature Size: 50' ht. x 50' spread	3	-	2
GD   <i>Gymnocladus dioica</i> - Kentucky Coffeetree 3" Cal. B&B, Mature Size: 55' ht. x 55' spread	4	-	-
GT   <i>Gleditsia triacanthos</i> 'Skycole' - Skyline Honeylocust 3" Cal. B&B, Mature Size: 55' ht. x 35' spread, Thornless variety	2	-	-
QA   <i>Quercus macrocarpa</i> - Bur Oak 3" Cal. B&B, Mature Size: 80' ht. x 80' spread	1	-	-
SR   <i>Syringa reticulata</i> 'Ivory Silk' - Snowcap Tree Lilac 3" Cal. B&B, Mature Size: 25' ht. x 15' spread	4	1	-
UF   <i>Ulmus</i> 'Frontier' - Frontier Elm 3" Cal. B&B, Mature Size: 50' ht. x 30' spread	4	-	-
Lawn See Specs	-	-	-
Planting Area 1 - Lawn / Microcover See Specs	5036	3402	
<i>Geum triflorum</i> - Prairie Smoke Plant plugs 12" o.c. with triangular spacing	1098	-	-
<b>PLUGS</b>			
<b>ZONE B</b>			
<i>Bio-swale Bottom Seed Mix</i>	1087	-	-
<b>ZONE C</b>			
Bioswale Side Slope Mix Plant plugs 12"-18" O.C. with triangular spacing, group plugs by species in groups of 40-50.	518	-	-
<b>PLUGS</b>			
<i>Allium cernuum</i> - Nodding Onion Plug, Mature Size: 1.5' ht x 1' spread			
<i>Dodecatheon meadia</i> - Shooting Star Plug, Mature Size: 1.5' ht x 1' spread			
<i>Eragrostis Spectabilis</i> - Purple Love Grass Plug, Mature Size: 1' ht x 1.5' spread			
<i>Rudbeckia hirta</i> - Black Eyed Susan Plug, Mature Size: 1-3' ht x 1.5' spread			
<i>Zizia aurea</i> - Golden Alexander Plug, Mature Size: 1-2' ht x 1.5' spread			
<b>URBAN SCHOOLYARD PLANTING AREA</b>			
<i>Aquilegia canadensis</i> - Wild Columbine Plug, Mature Size: 2.5' ht x 1.5' spread	-	26	-
<i>Coreopsis lanceolata</i> - Lance Leaf Coreopsis Plug, Mature Size: 1.5' ht x 1.5' spread	-	36	-
<i>Liatris aspera</i> - Rough Blazing Star Plug, Mature Size: 2.5' ht x 1.5' spread	-	22	-
<i>Schizachyrium Scoparium</i> - Little Bluestem Plug, Mature Size: 2' ht x 1.5' spread	-	51	-
<i>Sporobolus heterolepis</i> - Prairie Dropseed Plug, Mature Size: 3' ht x 3' spread	-	26	-
<b>DENSE SHRUB PLANTING AREA</b>			
<i>Forsythia x 'Cortasol'</i> - Gold Tide Forsythia 5 gal. Container, Mature Size: 2.5' ht x 4' spread	16	-	-
<i>Physocarpus opulifolius 'Nanus'</i> - Dwarf Ninebark 5 gal. Container, Mature Size: 5' ht x 5' spread	10	-	-
<i>Potentilla fruticosa</i> - Bush Cinquefoil 5 gal. Container, Mature Size: 3' ht x 3' spread	29	-	-
<i>Rhus aromatica 'Gro-low'</i> - Gro-Low Sumac 5 gal. Container, Mature Size: 2.5' ht x 8' spread	11	-	-
<b>RAISED CONCRETE PLANTERS</b>			
<i>Sporobolus heterolepis</i> - Prairie Dropseed 3 gal Cont., Mature Size: 3' ht x 3' spread	28	7	-

NOTES  
 1. SEE SHEET L500 AND L501 FOR PLANTING DETAILS AND NOTES  
 2. SEE SPECS FOR SEED MIX SPECIES PERCENT COVERAGE



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 FAX: 414-283-4682

**SHEET NAME: PLANTING PLAN**  
**PROJECT NAME: 2023 GREEN INFRASTRUCTURE UPGRADES**  
**PROJECT ADDRESS: ALEXANDER MITCHELL ELEMENTARY SCHOOL, 1728 S. 23RD STREET, MILWAUKEE, WI 53204**

ISSUED FOR:	REV:	DATE:
50% CD		11/14/2022
95% CD		12/22/2022
100% CD		1/23/2023

**DRAWN BY: ZWA**  
**REVIEWED BY: KW**  
**APPROVED BY: MM**  
**DATE: January 2023**

SEAL AND SIGNATURE  
  
 KERRY WHITE  
 LA-822-14  
 WAUWATOSA  
 WIS.

PROJECT NUMBER: 8174 (DIVISION 3)

SITE NUMBER: 274

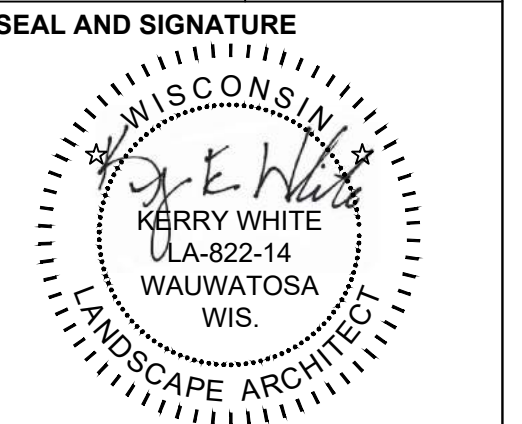
SHEET:  
**L300**



SHEET NAME: <b>SITE DETAILS</b>	PROJECT NAME: <b>2023 GREEN INFRASTRUCTURE UPGRADES</b>	PROJECT ADDRESS: <b>ALEXANDER MITCHELL ELEMENTARY SCHOOL 1728 S. 23RD STREET, MILWAUKEE, WI 53204</b>
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ISSUED FOR:	REV:	DATE:
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DRAWN BY:	ZWA
REVIEWED BY:	KW
APPROVED BY:	MM
DATE:	January 2023



PROJECT NUMBER: 8174 (DIVISION 3)

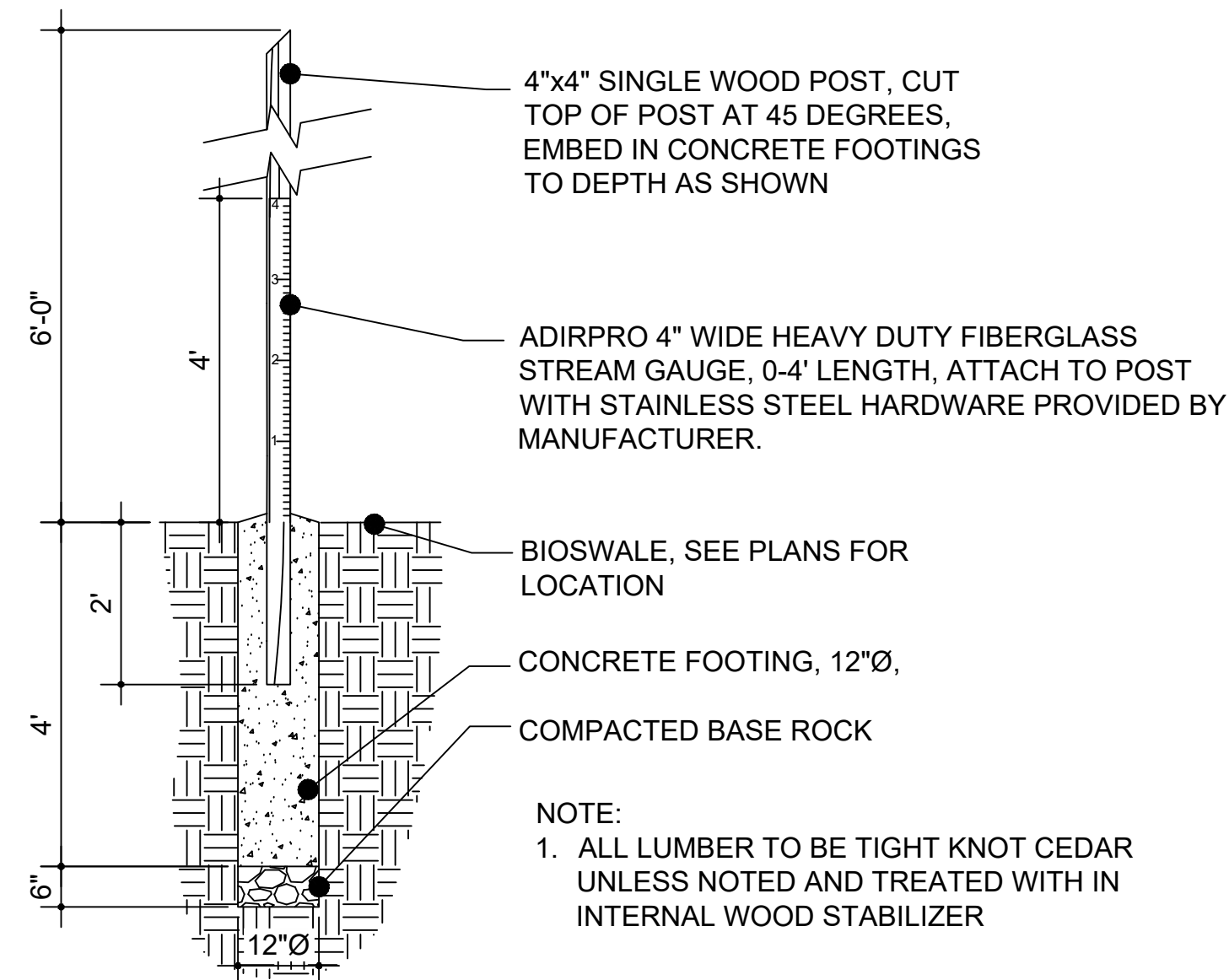
SITE NUMBER: 274

SHEET:  
**L400**

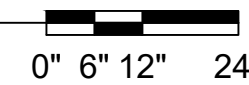
1 NOT USED

2 NOT USED

3 NOT USED



4 RAIN MEASURING POST - IN BIOSWALE SECTION



5 NOT USED

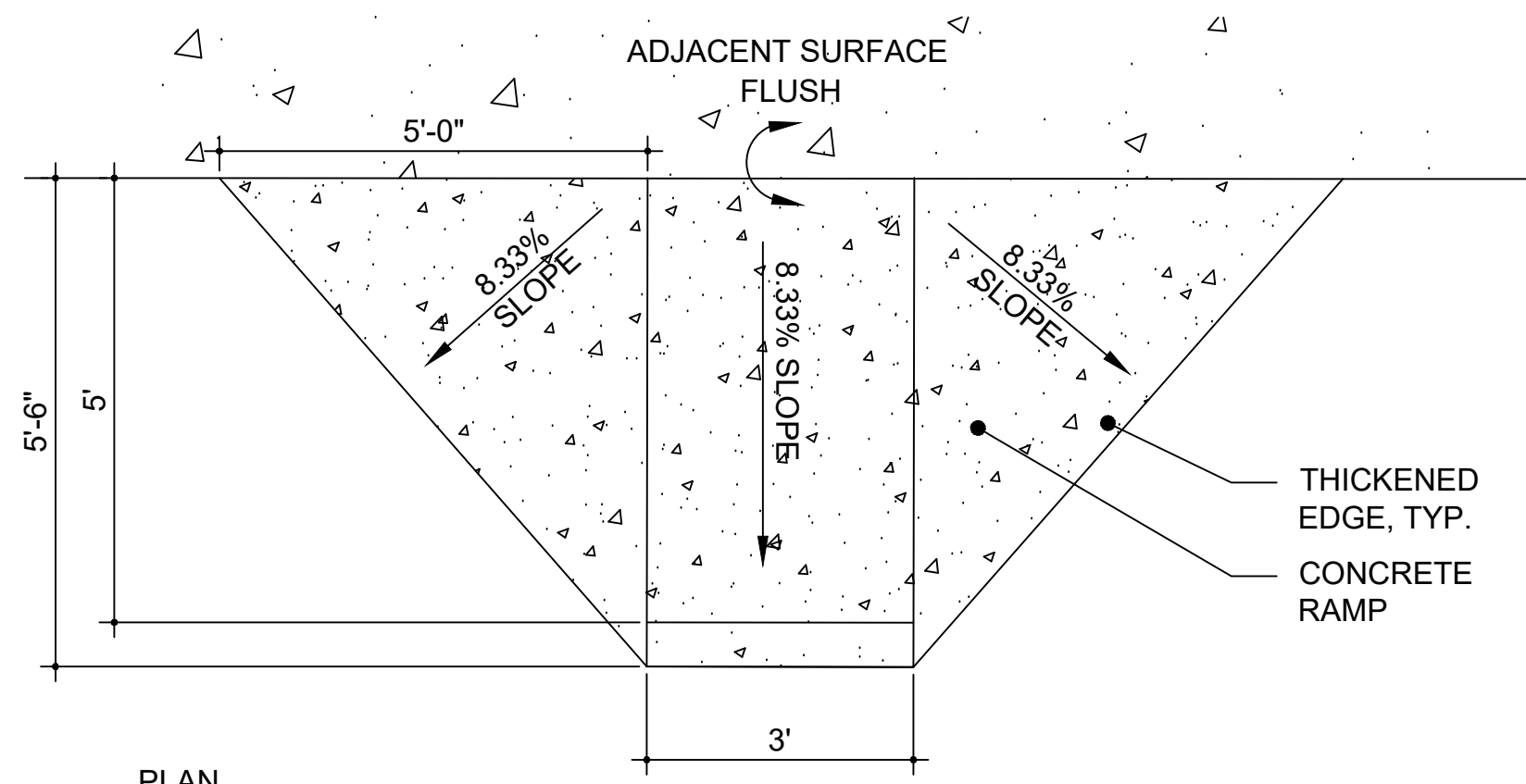
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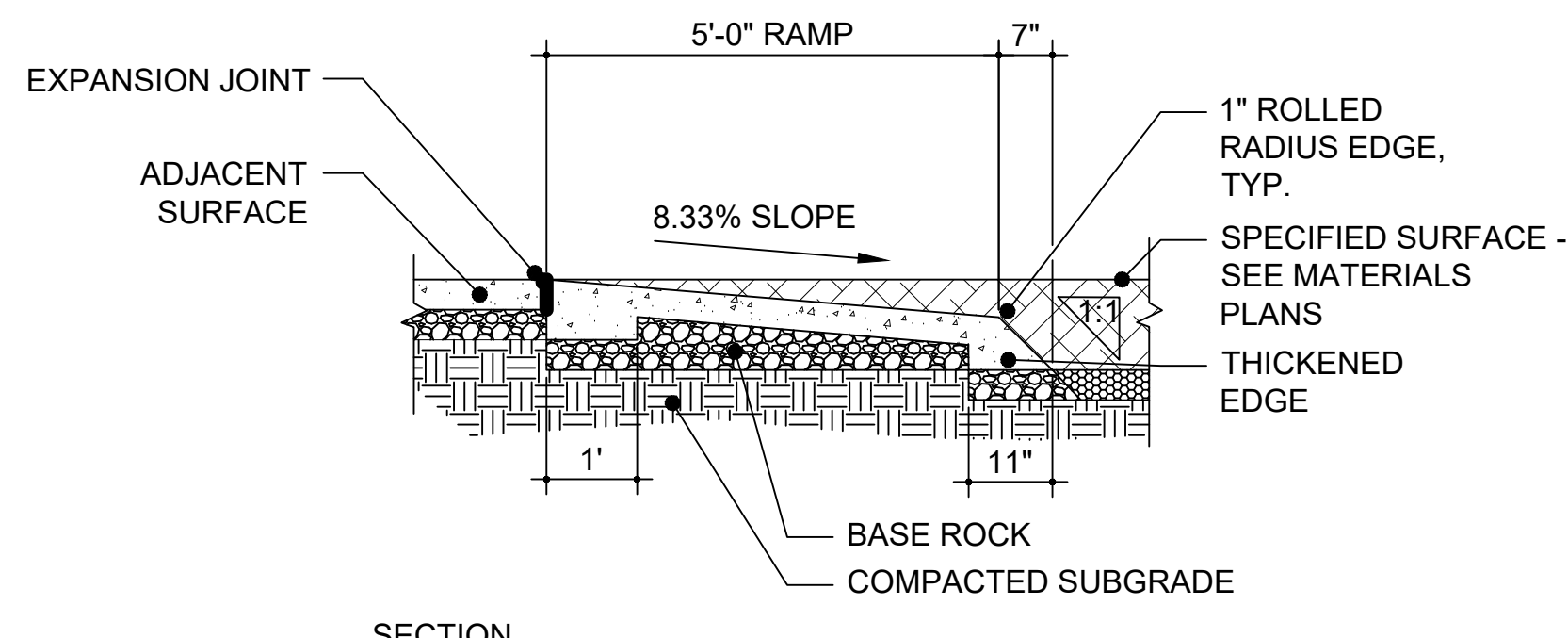
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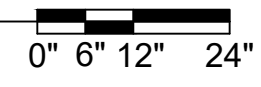




NOTE: PLAY SURFACING SHOULD COMPLETELY COVER RAMP



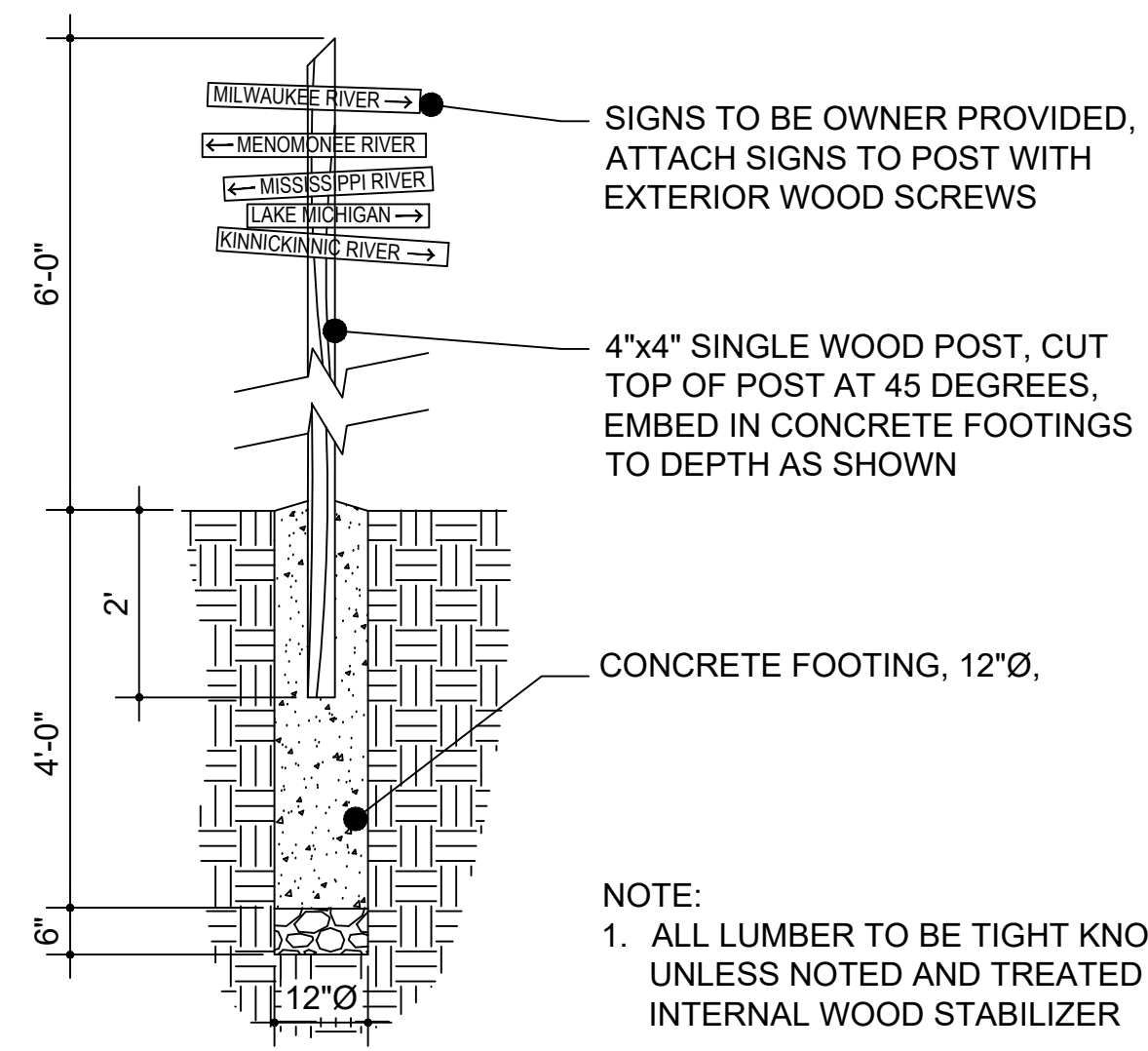
1 ADA ACCESS RAMP  
PLAN AND SECTION



2 NOT USED

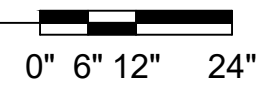
3 NOT USED

4 NOT USED



NOTE:  
1. ALL LUMBER TO BE TIGHT KNOT CEDAR UNLESS NOTED AND TREATED WITH INTERNAL WOOD STABILIZER

5 SIGN POST  
SECTION



6 NOT USED

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SHEET NAME: <b>SITE DETAILS</b>	PROJECT NAME: <b>2023 GREEN INFRASTRUCTURE UPGRADES</b>	PROJECT ADDRESS: <b>ALEXANDER MITCHELL ELEMENTARY SCHOOL 1728 S. 23RD STREET, MILWAUKEE, WI 53204</b>
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DRAWN BY:	ZWA
REVIEWED BY:	KW
APPROVED BY:	MM
DATE:	January 2023

SEAL AND SIGNATURE

PROJECT NUMBER: 8174 (DIVISION 3)

SITE NUMBER: 274

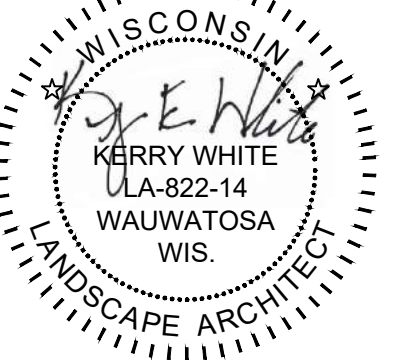
SHEET:  
**L401**



SHEET NAME: **SITE DETAILS**  
 PROJECT NAME: **2023 GREEN INFRASTRUCTURE UPGRADES**  
 PROJECT ADDRESS: **ALEXANDER MITCHELL ELEMENTARY SCHOOL  
 1728 S. 23RD STREET, MILWAUKEE, WI 53204**

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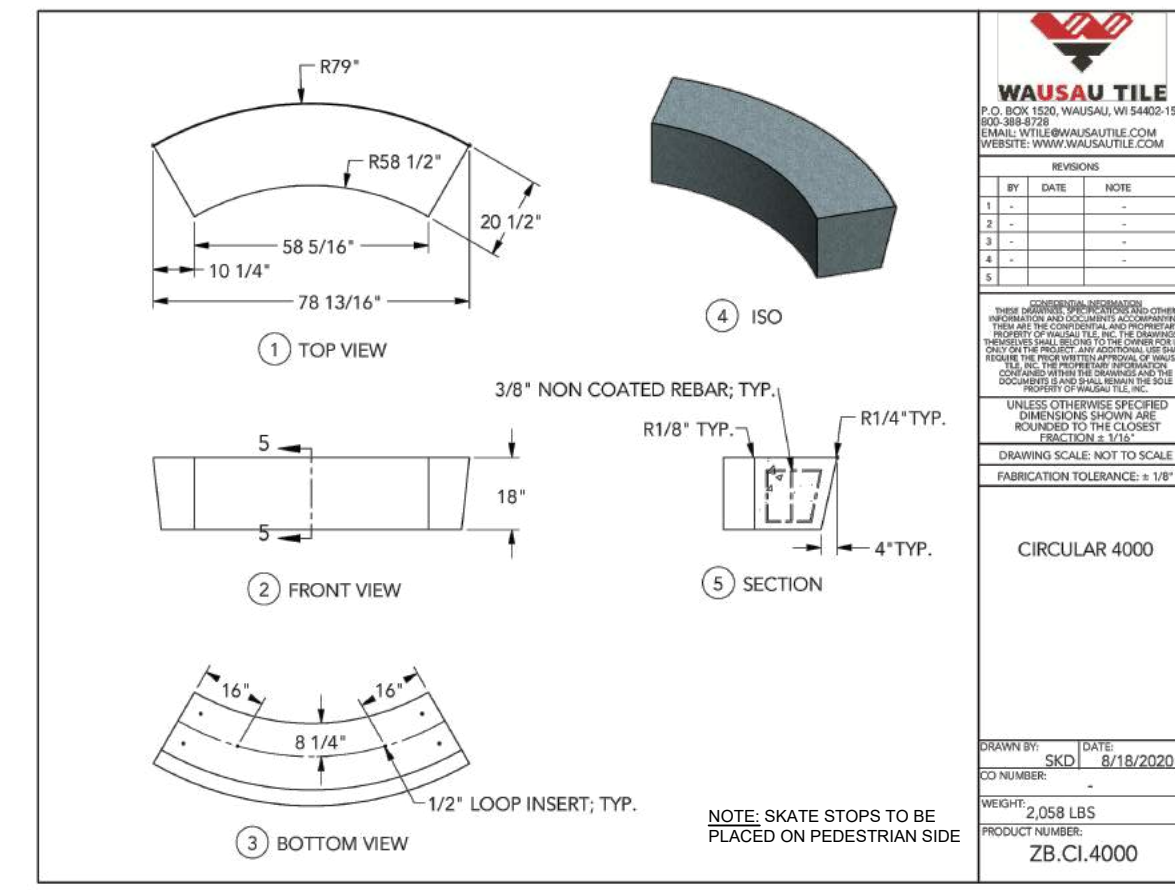
DRAWN BY:	ZWA
REVIEWED BY:	KW
APPROVED BY:	MM
DATE:	January 2023

SEAL AND SIGNATURE  


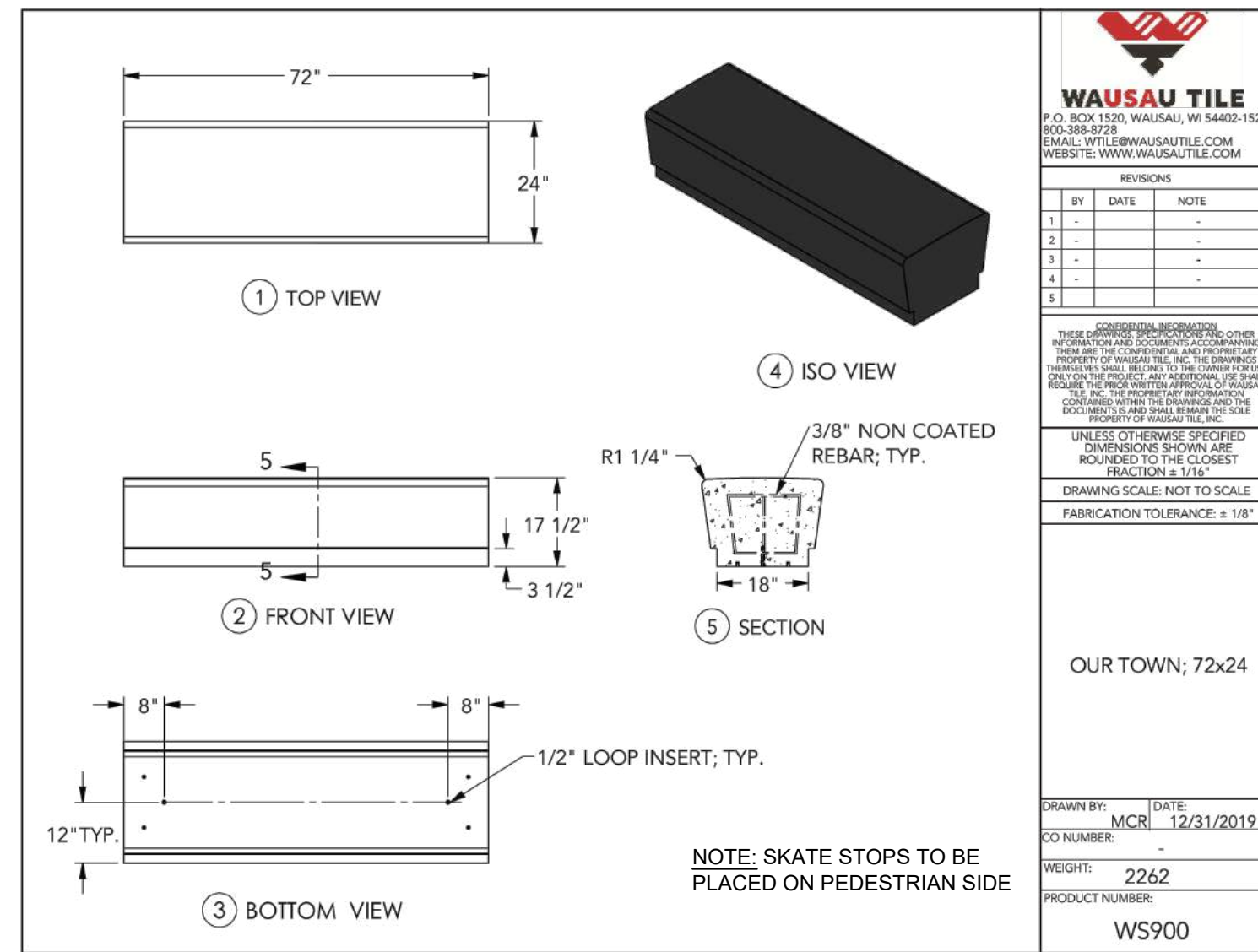
PROJECT NUMBER: 8174 (DIVISION 3)

SITE NUMBER: 274

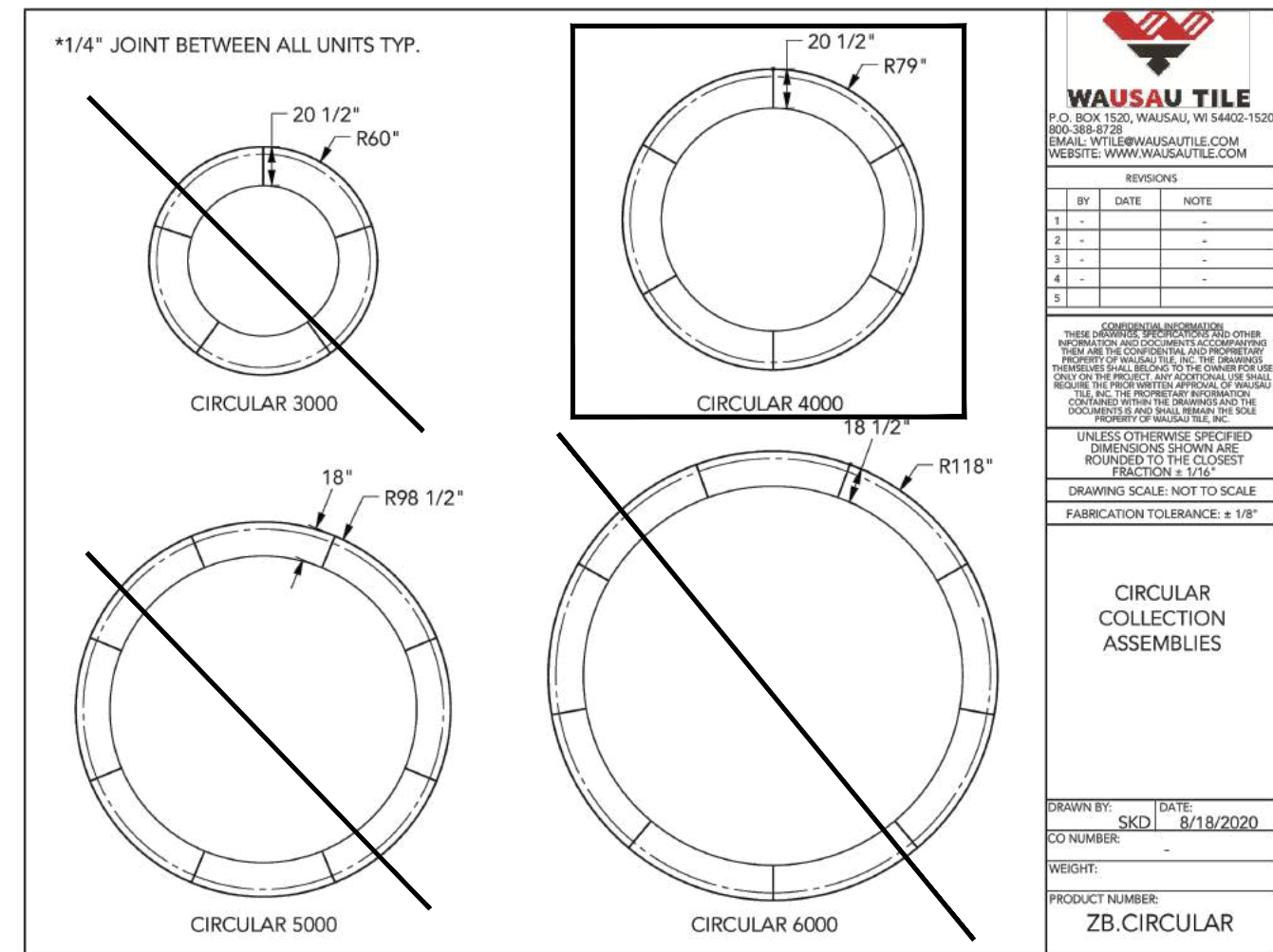
SHEET:  
**L402**



**3 CONCRETE BENCH / TREE PLANTER**  
 PLAN  
 0" 12" 24" 48"



**2 CONCRETE BENCH**  
 SECTION  
 0" 8" 16" 32"



**4 CONCRETE BENCH / TREE PLANTER**  
 PLAN  
 0" 24" 48" 96"

**1 NOT USED**



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PROJECT NAME: OUTDOOR CLASSROOM MPS

PROJECT LOCATION: MILWAUKEE, WI

BUILDING TYPE: MSE 16X30

ROOF TYPE: MULTI-RIB

BUILDING NUMBER: P14115

ORDER NUMBER: 72044

**DRAWING LIST:**

SHEET NUMBER	DRAWING DESCRIPTION
CS	COVER SHEET
1	ARCHITECTURAL ELEVATIONS
2-2.1	ANCHOR AND FOOTING LAYOUT / DETAILS
3	STRUCTURAL FRAMING PLAN
4-4.1	FRAME CONNECTION DETAILS
5	ELECTRICAL DETAILS
6-6.1	ROOF LAYOUT
7-7.1	ROOF CONNECTION DETAILS

**DESIGN CRITERIA:**

**GENERAL:**  
 2015 INTERNATIONAL BUILDING CODE  
 RISK CATEGORY: II

**DEAD LOAD:**  
 ROOF DEAD LOAD: 2 PSF  
 FRAME DEAD LOAD: SELF WEIGHT

**LIVE LOAD:**  
 ROOF LIVE LOAD: 20 PSF

**SNOW DESIGN DATA:**  
 GROUND SNOW LOAD (Pg): 30 PSF  
 FLAT ROOF SNOW LOAD (Pf): 25 PSF  
 SNOW EXPOSURE FACTOR (Ce): 1.0  
 SNOW LOAD IMPORTANCE FACTOR (Ia): 1.0  
 THERMAL FACTOR (Ct): 1.2

**WIND DESIGN DATA:**  
 BASIC WIND SPEED (V): 115 MPH  
 GUST EFFECT FACTOR (G): 0.85  
 INTERNAL PRESSURE COEFFICIENT (GCp): 0  
 WIND EXPOSURE: C

**SEISMIC DESIGN DATA:**  
 STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.  
 SEISMIC IMPORTANCE FACTOR (Ie): 1.0  
 SEISMIC DESIGN CATEGORY: C  
 SEISMIC SITE CLASS: D  
 SEE CALCULATIONS FOR ADDITIONAL DATA

**ADDITIONAL CRITERIA:**  
 NONE

**MANUFACTURER NOTES:**

**MATERIALS:**

DESCRIPTION	ASTM DESIGNATION
TUBE STEEL	A500 (GRADE B)
SCHEDULE PIPE	A53 (GRADE B)
RMT PIPE	A516
LIGHT GAUGE COLD FORMED	A1003 (GRADE 60)
STRUCTURAL STEEL PLATE	A36
ROOF PANELS (STEEL)	A653
ANCHOR BOLTS	SEE SHEET 2.1

**GENERAL NOTES:**  
 UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED TO ONLY SUPPORT WHAT IS SHOWN ON THESE DRAWINGS. POLIGON MUST BE CONTACTED IF ANYTHING ELSE IS TO BE ATTACHED TO THIS STRUCTURE (WALLS, COLUMN WRAPS, RAILINGS, ETC.) SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.

UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED ASSUMING A 20' SEPARATION BETWEEN ANY ADJACENT STRUCTURE WITH AN EAVE HEIGHT EQUAL TO OR GREATER THAN THE EAVE HEIGHT OF THIS STRUCTURE. IF THAT SEPARATION DOES NOT EXIST, POLIGON MUST BE CONTACTED SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.

STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERRECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL.

ALL WELDING IS PERFORMED BY AMERICAN WELDING SOCIETY CERTIFIED WELDERS AND CONFORMS TO THE LATEST EDITION OF AWS D1.1 OR D1.3 AS REQUIRED.

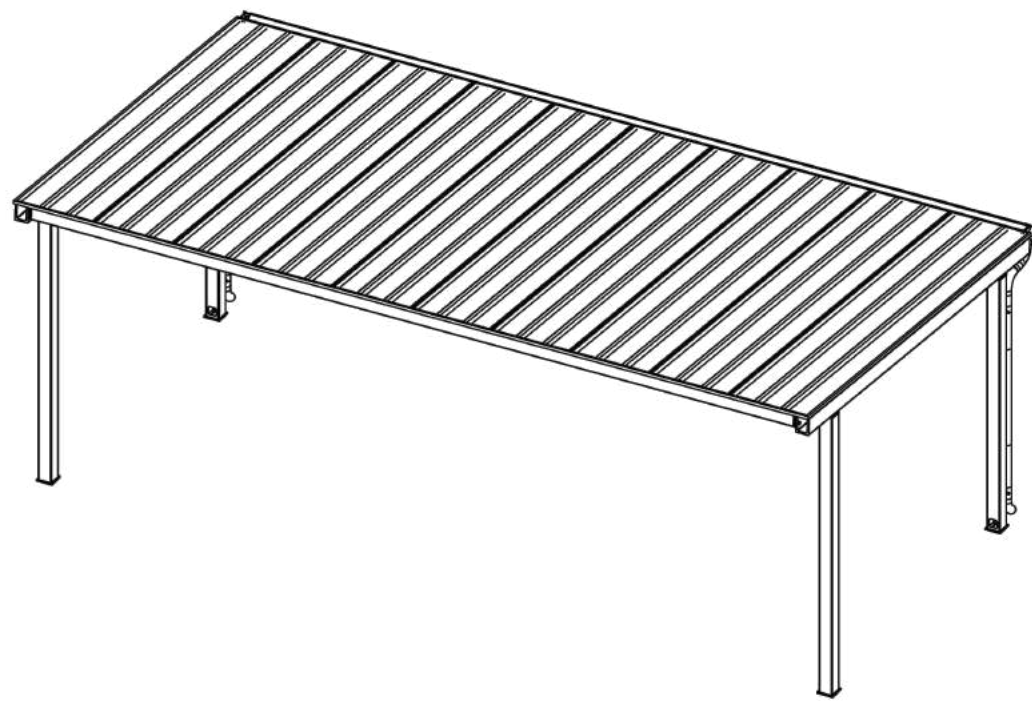
PARTS SHOWN MAY BE UPGRADED DUE TO STANDARDIZED FABRICATION. REFER TO THE SHIPPING BILL OF MATERIALS AND FINAL INSTALLATION INSTRUCTIONS INCLUDED WITH THE STRUCTURE FOR POSSIBLE SUBSTITUTIONS AND IMPROVEMENTS.

FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT THE PRIMARY FRAME INSTALLER AND THE ROOF INSTALLER HAVE A MINIMUM FIVE (5) YEARS DOCUMENTED EXPERIENCE INSTALLING THIS TYPE OF PRODUCT.

FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT ELECTRIC WIRING, IF REQUIRED, BE RUN THROUGH THE STRUCTURAL MEMBERS BEFORE THE BUILDING IS ERRECTED.

**CERTIFICATIONS:**  
 MILWAUKEE COUNTY CERTIFICATE OF COMPETENCY NO. 21-0819.13  
 PCI (POWDER COATING INSTITUTE) 4000 CERTIFIED

**FABRICATOR APPROVALS:**  
 CITY OF PHOENIX, AZ APPROVED FABRICATOR #C08-2010  
 CITY OF LOS ANGELES, CA APPROVED FABRICATOR #F801596  
 CITY OF RIVERSIDE, CA APPROVED FABRICATOR #RF\_000042  
 CITY OF HOUSTON, TX APPROVED FABRICATOR #470  
 CLARK COUNTY, NV APPROVED FABRICATOR #264  
 STATE OF UTAH APPROVED FABRICATOR 02008-14  
 AISC APPROVED FABRICATOR C-00018751

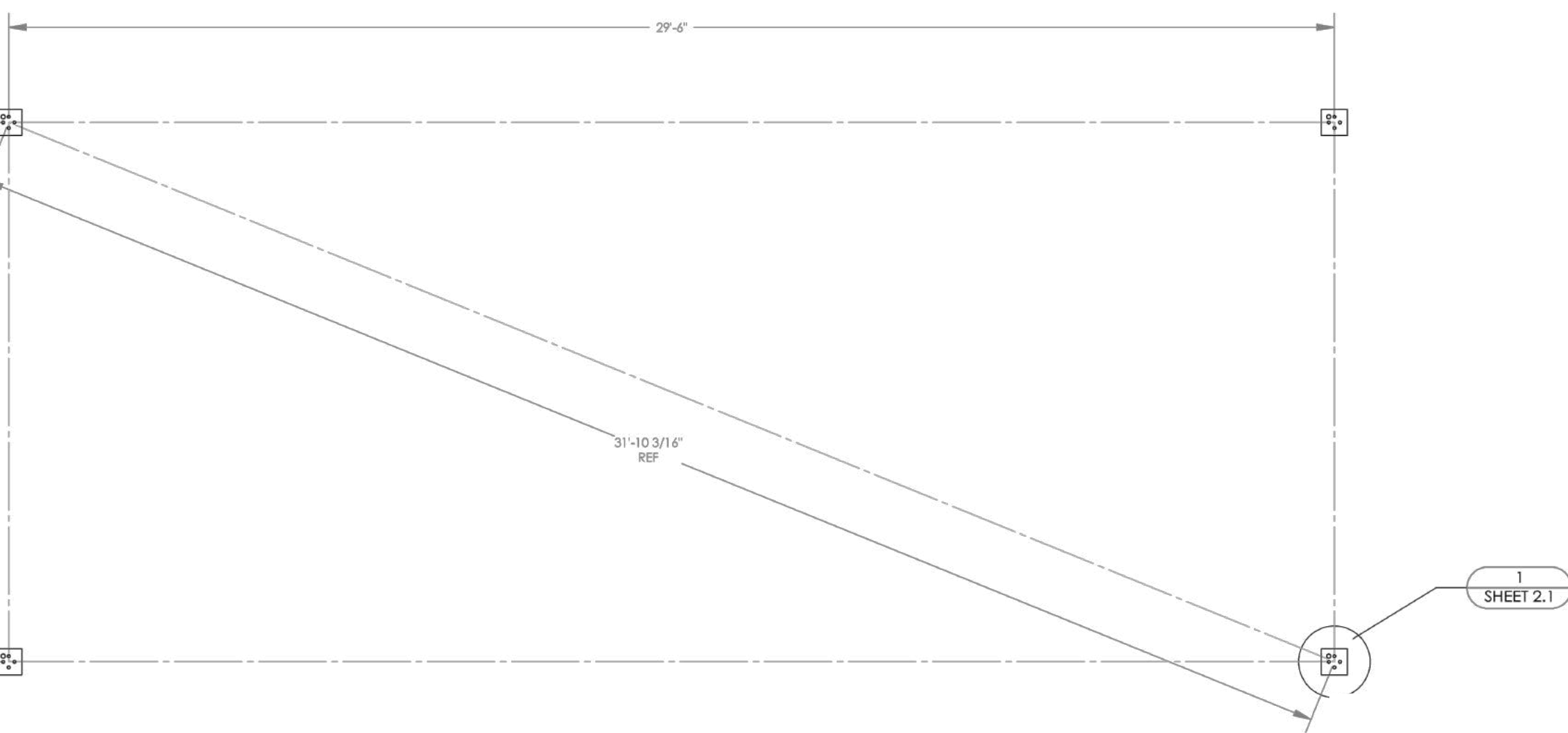
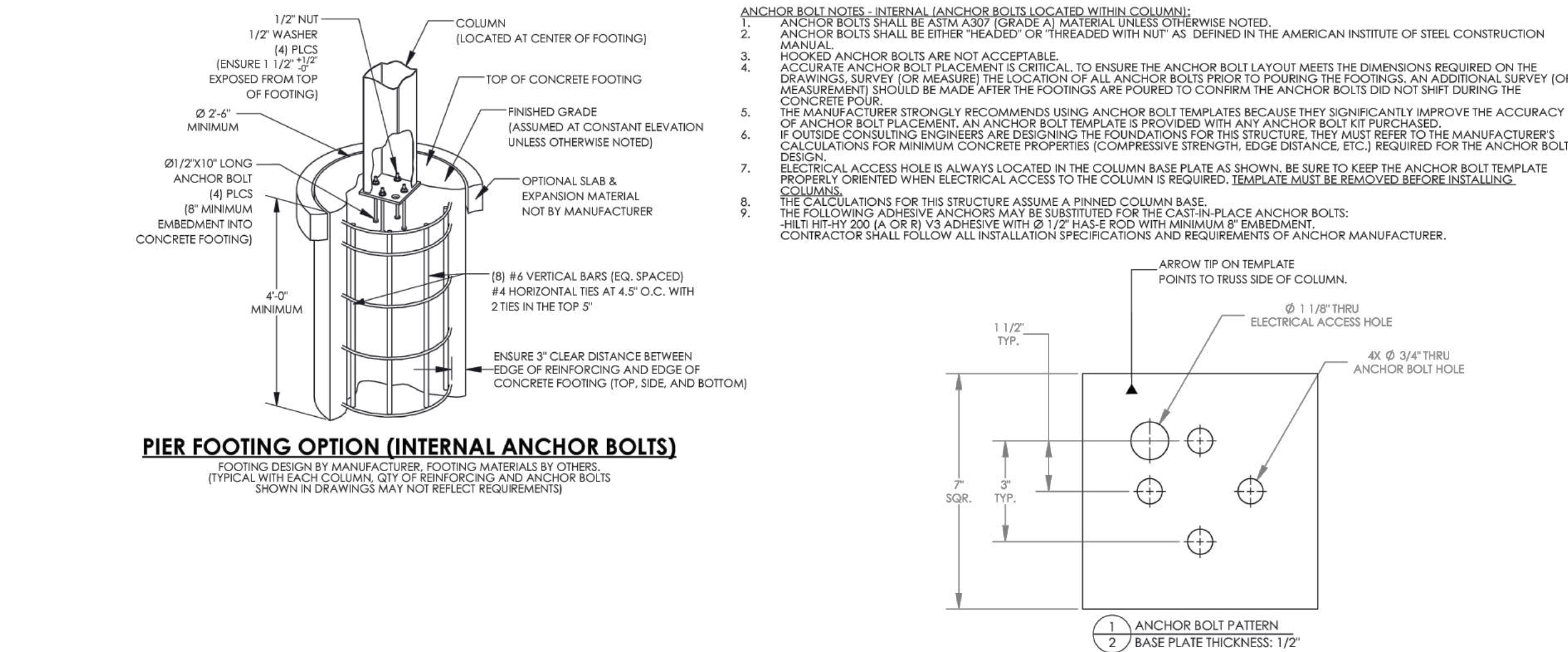


**1 SHADE SHELTER - COVER SHEET**

NOT TO SCALE

**2 SHADE SHELTER - ARCHITECTURAL ELEVATIONS**

NOT TO SCALE



**3 SHADE SHELTER - ANCHOR AND FOOTING LAYOUT**

NOT TO SCALE

**4 SHADE SHELTER - ANCHOR AND FOOTING DETAILS**

NOT TO SCALE

**STORMWATER SOLUTIONS ENGINEERING LLC**  
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 WWW.STORMWATER-SOLUTIONS-ENGINEERING.COM

**Learning Landscapes**  
 LEARNING LANDSCAPES DESIGN, LLC

**MPS MILWAUKEE PUBLIC SCHOOLS**

**DIVISION OF FACILITIES AND MAINTENANCE SERVICES**  
 1124 NORTH 11TH STREET  
 MILWAUKEE, WI 53205-0259  
 PHONE: 414-283-4600  
 FAX: 414-283-4682

**SHEET NAME: SITE DETAILS**  
**PROJECT NAME: 2023 GREEN INFRASTRUCTURE UPGRADES**  
**PROJECT ADDRESS: ALEXANDER MITCHELL ELEMENTARY SCHOOL 1728 S. 23RD STREET, MILWAUKEE, WI 53204**

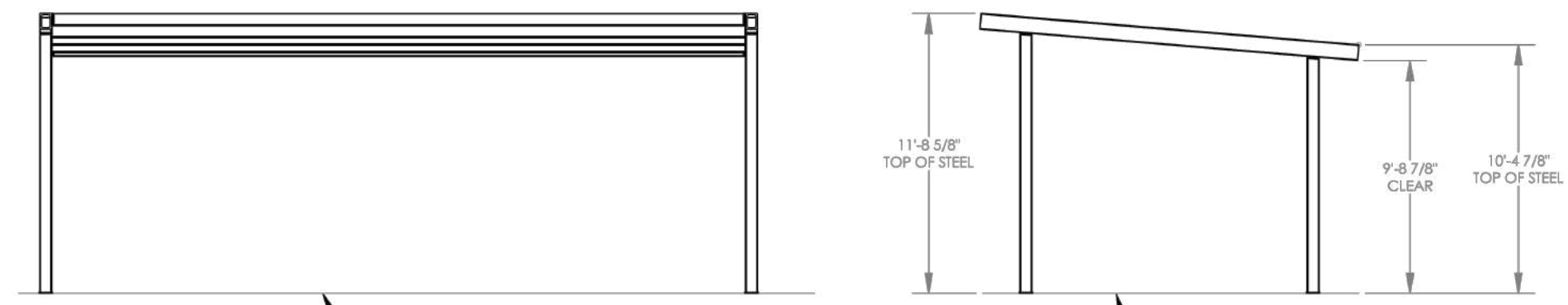
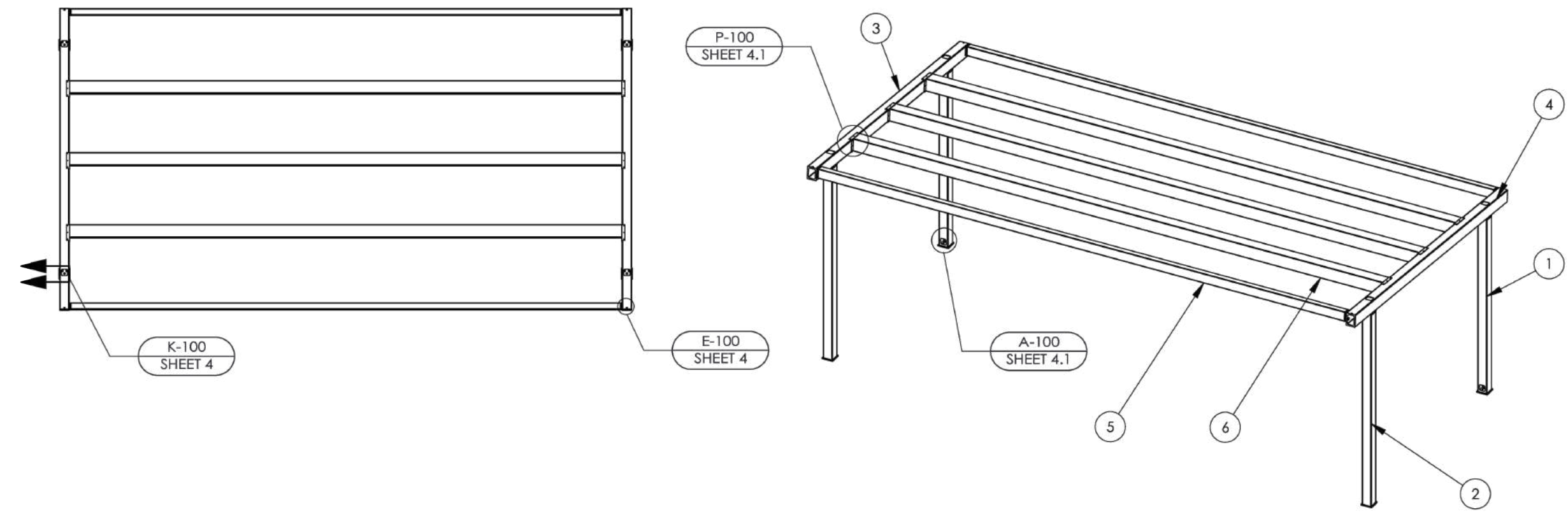
ISSUED FOR:	REV:	DATE:
50% CD		11/14/2022
95% CD		12/22/2022
100% CD		1/23/2023

**DRAWN BY: ZWA**  
**REVIEWED BY: KW**  
**APPROVED BY: MM**  
**DATE: January 2023**

**SEAL AND SIGNATURE**  
  
 KERRY WHITE  
 LA-822-14  
 WAUWATOSA, WI

**PROJECT NUMBER: 8174 (DIVISION 3)**  
**SITE NUMBER: 274**  
**SHEET: L403**





ITEM	QTY	PART NO.	DESCRIPTION	MATERIAL	WEIGHT
6	3	-	PURLIN ASM	HSS8X8X3/16	389.17
5	2	-	EAVE ASM	HSS6X4X3/16	241.49
4	1	-	TRUSS 2 ASM	HSS8X6X3/16	283.74
3	1	-	TRUSS 1 ASM	HSS8X6X3/16	283.74
2	2	-	COLUMN 2 ASM	HSS6X6X3/16	167.62
1	2	-	COLUMN 1 ASM	HSS6X6X3/16	153.19

**5 SHADE SHELTER - STRUCTURAL FRAMING PLAN** NOT TO SCALE

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SHEET NAME: **SITE DETAILS**  
 PROJECT NAME: **2023 GREEN INFRASTRUCTURE UPGRADES**  
 PROJECT ADDRESS: **ALEXANDER MITCHELL ELEMENTARY SCHOOL  
 1728 S. 23RD STREET, MILWAUKEE, WI 53204**

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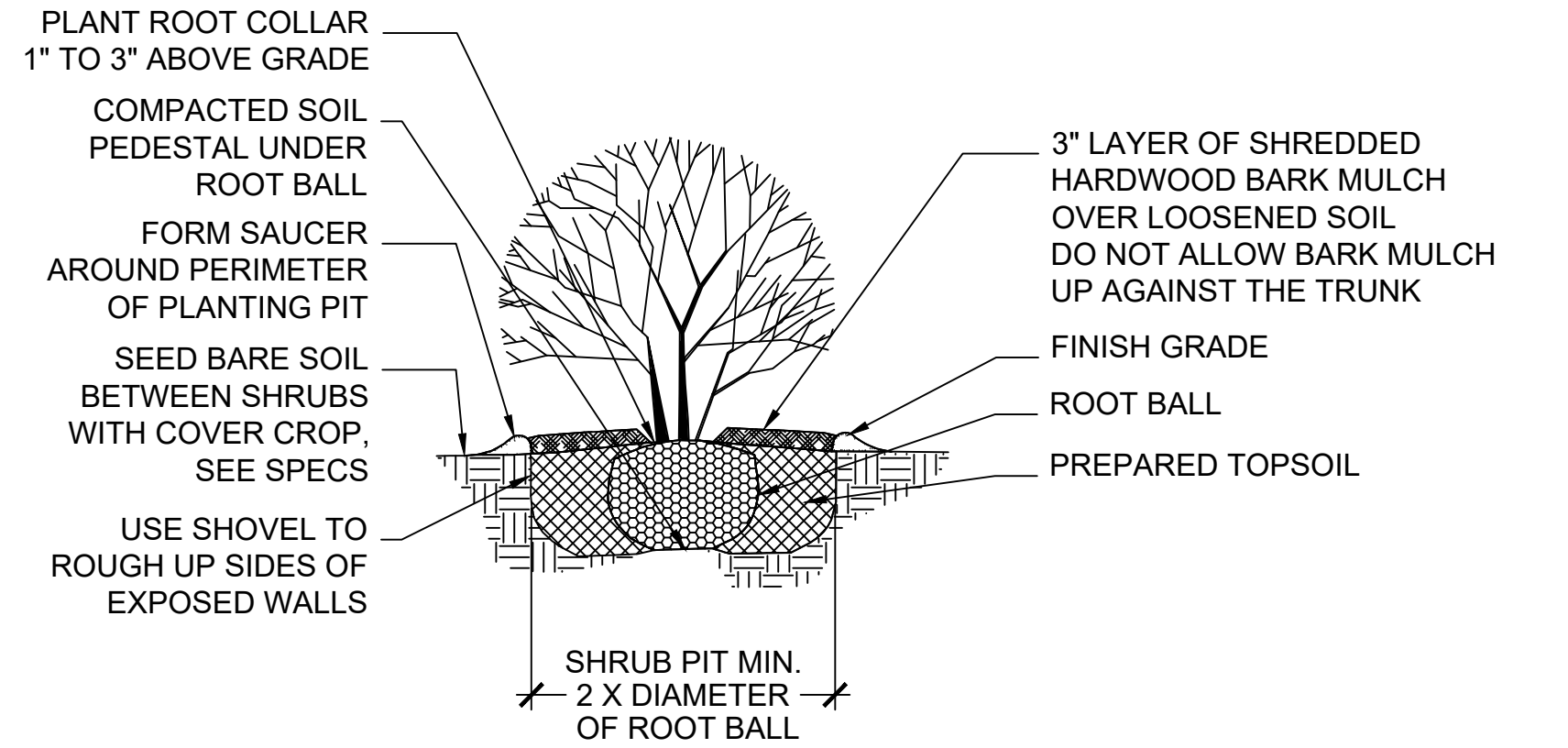
 KERRY WHITE  
 LA-822-14  
 WAUWATOSA  
 WIS.  
 LANDSCAPE ARCHITECT

PROJECT NUMBER: 8174 (DIVISION 3)  
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**L404**



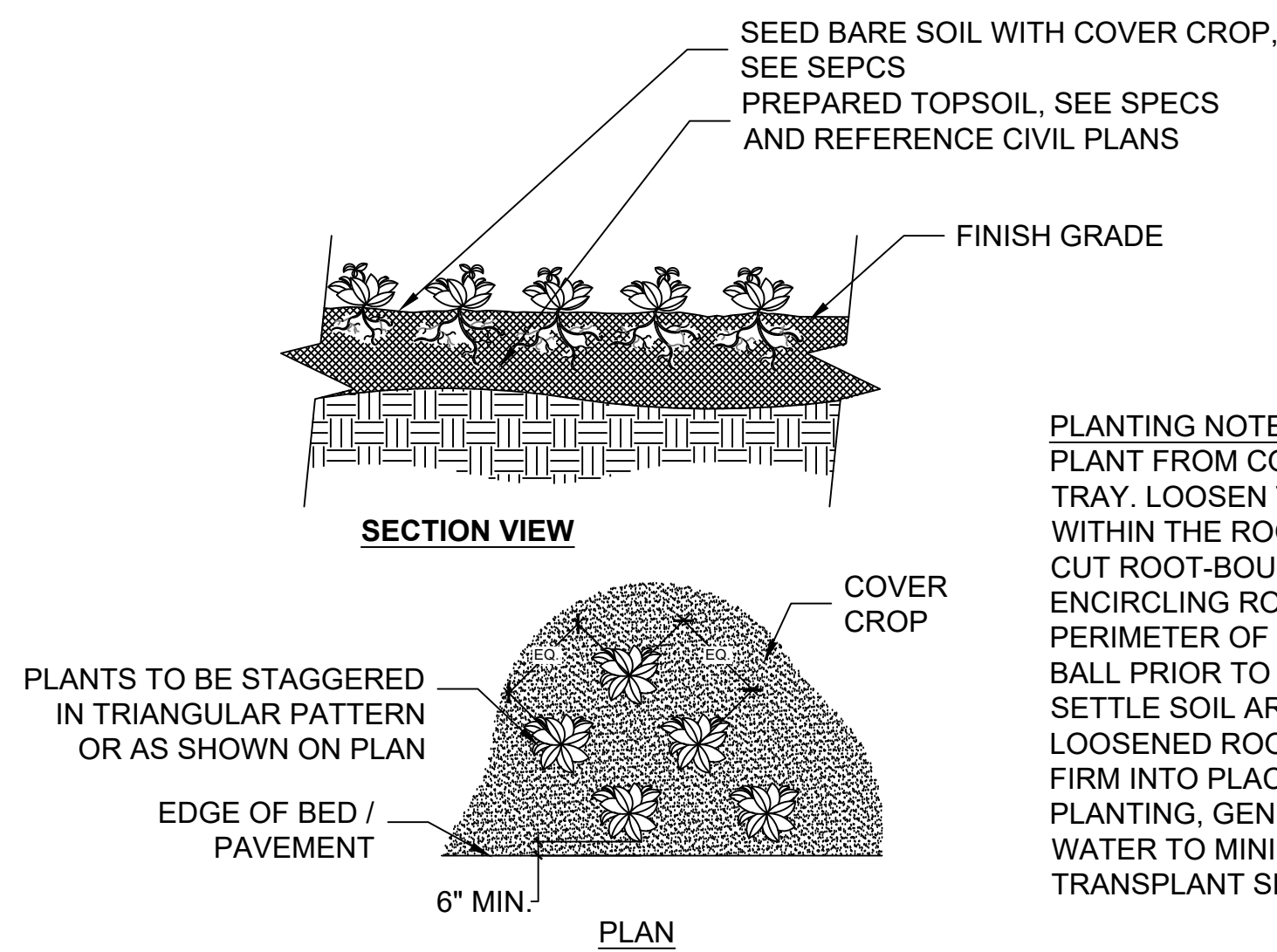
**B & B NOTES:** REMOVE THE ROPE AROUND TRUNK, PEEL THE TOP OF BURLAP BACK AND SCRAPE EXCESS SOIL TO EXPOSE THE ROOT COLLAR. REMOVE THE WIRE BASKET AND PEEL THE BURLAP OFF

**CONTAINER NOTES:** REMOVE PLANT FROM POT. LOOSEN ROOTS / CUT WITH KNIFE TO REDUCE POT-BOUND ROOTS



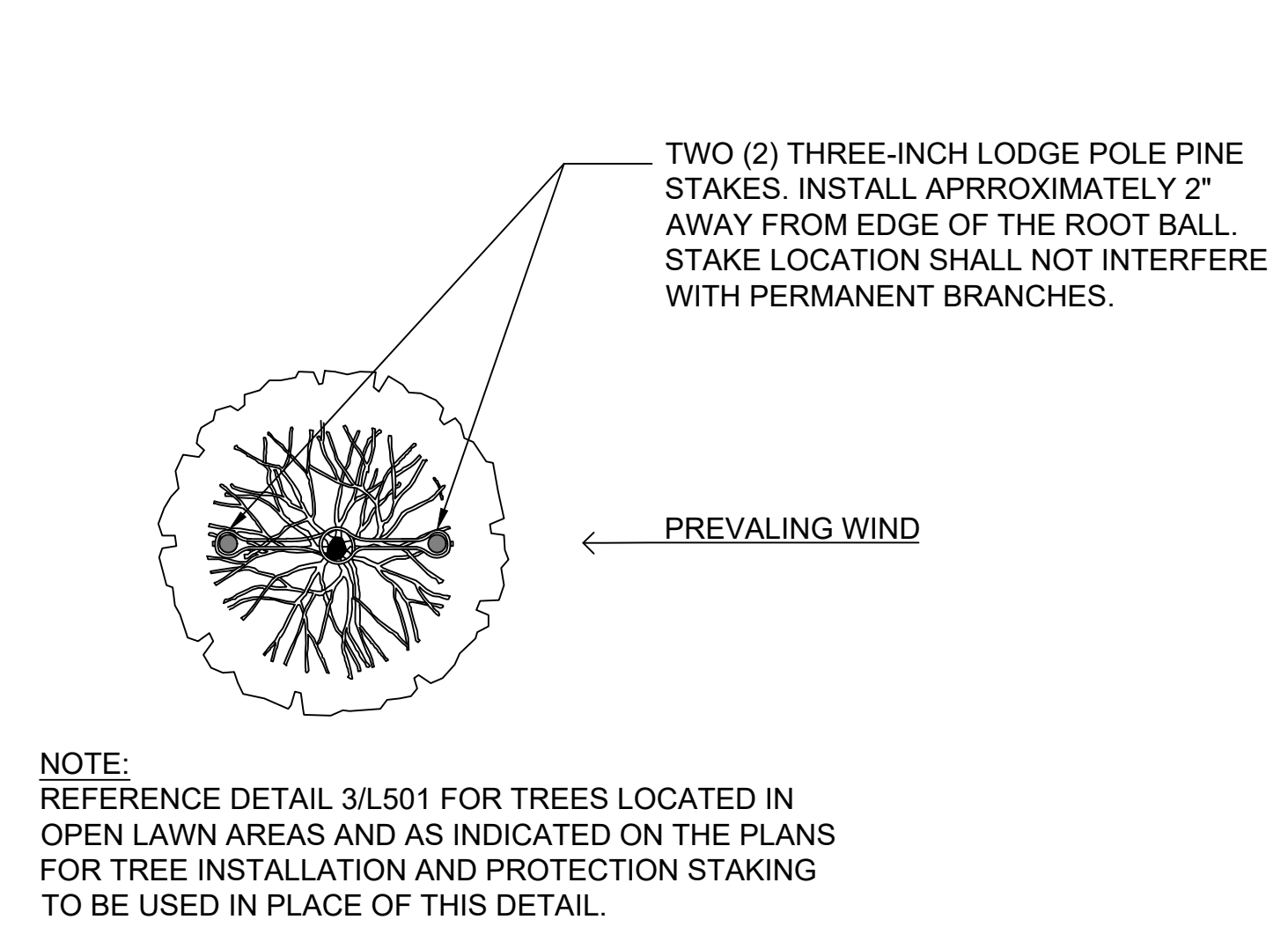
**1 SHRUB PLANTING**

SECTION 0" 6" 12" 24"



**2 PLUG PLANTING**

SECTION 0" 6" 12" 24"

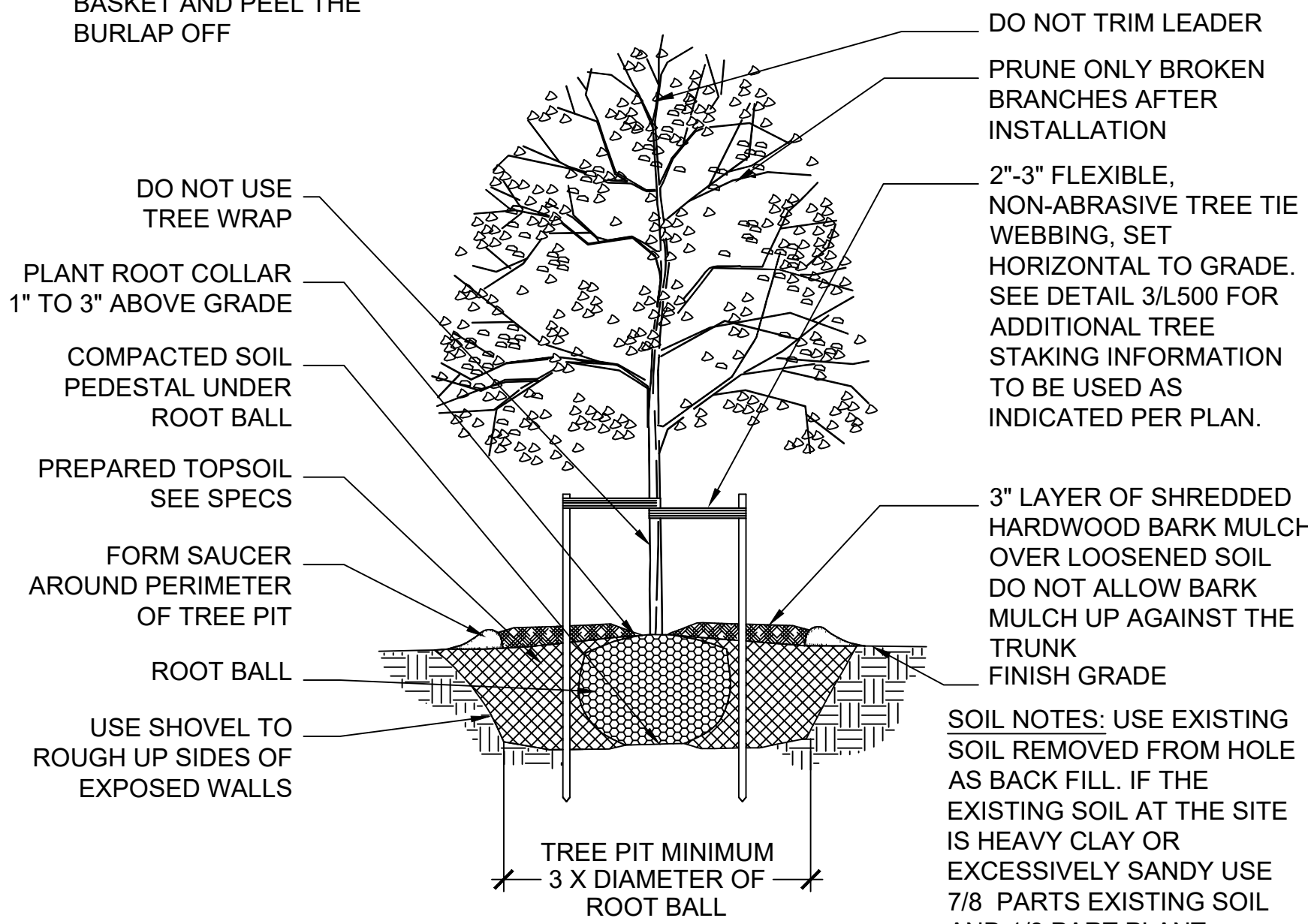


**3 TREE STAKING**

PLAN 0" 6" 12" 24"

**B & B NOTES:** REMOVE THE ROPE AROUND TRUNK, PEEL THE TOP OF BURLAP BACK AND SCRAPE EXCESS SOIL TO EXPOSE THE ROOT COLLAR. REMOVE THE WIRE BASKET AND PEEL THE BURLAP OFF

**DNR NOTES:** THIS PLANTING DETAIL CONFORMS TO TREE PLANTING GUIDELINES AS SPECIFIED IN DNR DOCUMENT, 'DEVELOPING PLANTING SPECIFICATIONS' REVISED 10/25

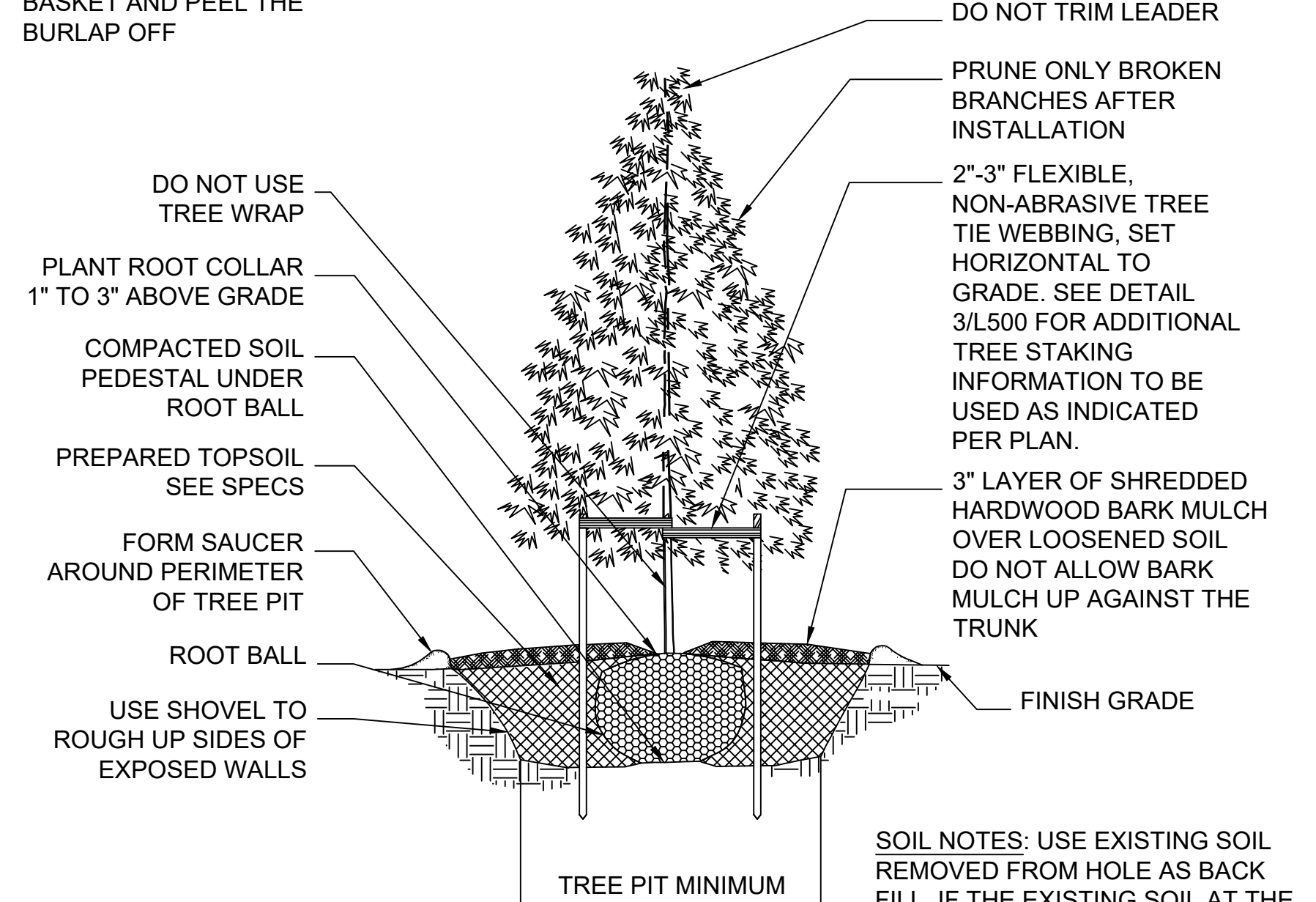


**4 DECIDUOUS TREE PLANTING**

SECTION NTS

**B & B NOTES:** REMOVE THE ROPE AROUND TRUNK, PEEL THE TOP OF BURLAP BACK AND SCRAPE EXCESS SOIL TO EXPOSE THE ROOT COLLAR. REMOVE THE WIRE BASKET AND PEEL THE BURLAP OFF

**DNR NOTES:** THIS PLANTING DETAIL CONFORMS TO TREE PLANTING GUIDELINES AS SPECIFIED IN DNR DOCUMENT, 'DEVELOPING PLANTING SPECIFICATIONS' REVISED 10/25



**5 EVERGREEN TREE PLANTING**

SECTION NTS

SHEET NAME: <b>PLANTING DETAILS</b>	PROJECT NAME: <b>2023 GREEN INFRASTRUCTURE UPGRADES</b>	PROJECT ADDRESS: <b>ALEXANDER MITCHELL ELEMENTARY SCHOOL 1728 S. 23RD STREET, MILWAUKEE, WI 53204</b>

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DRAWN BY:	ZWA
REVIEWED BY:	KW
APPROVED BY:	MM
DATE:	January 2023

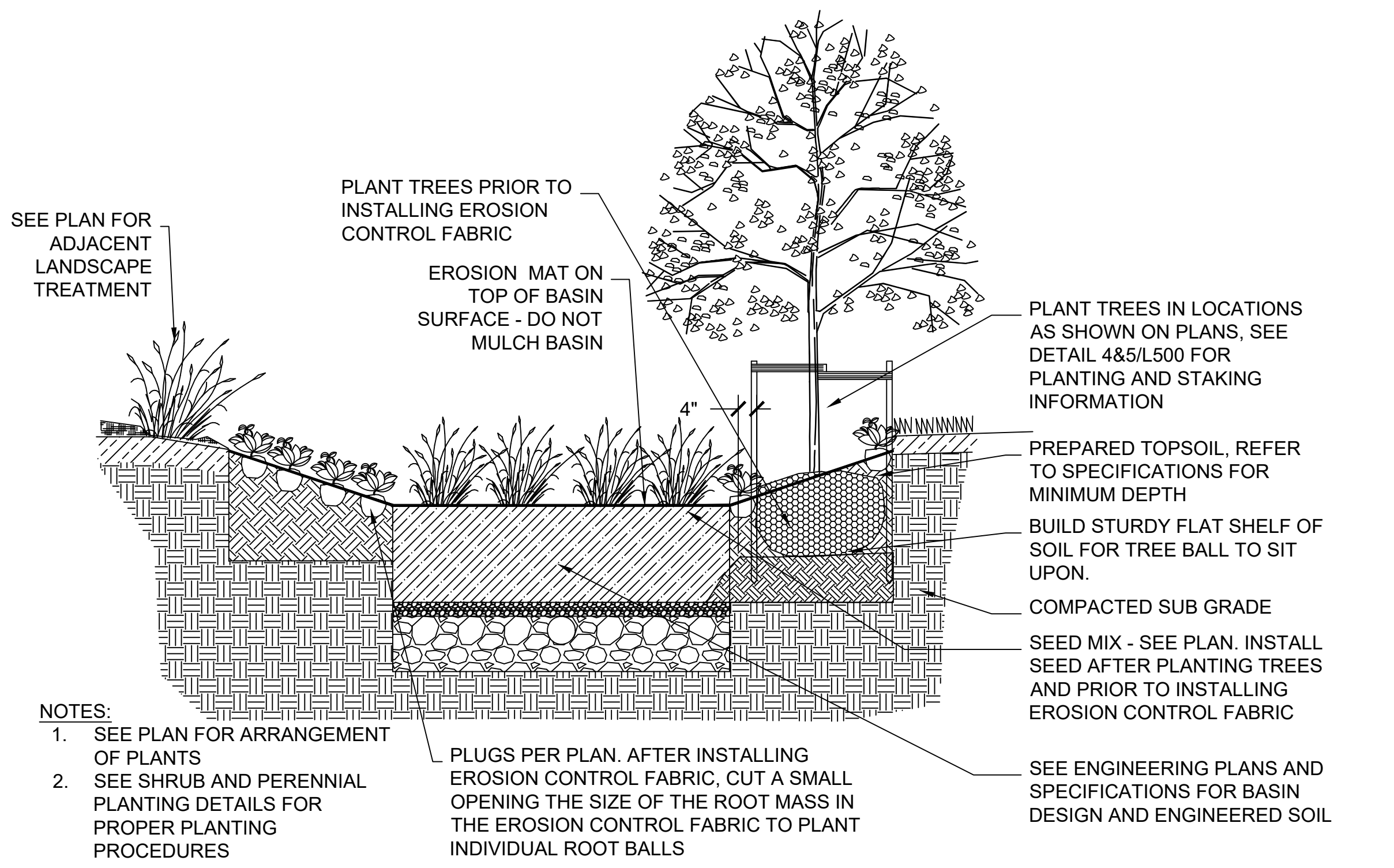
SEAL AND SIGNATURE

PROJECT NUMBER: 8174 (DIVISION 3)

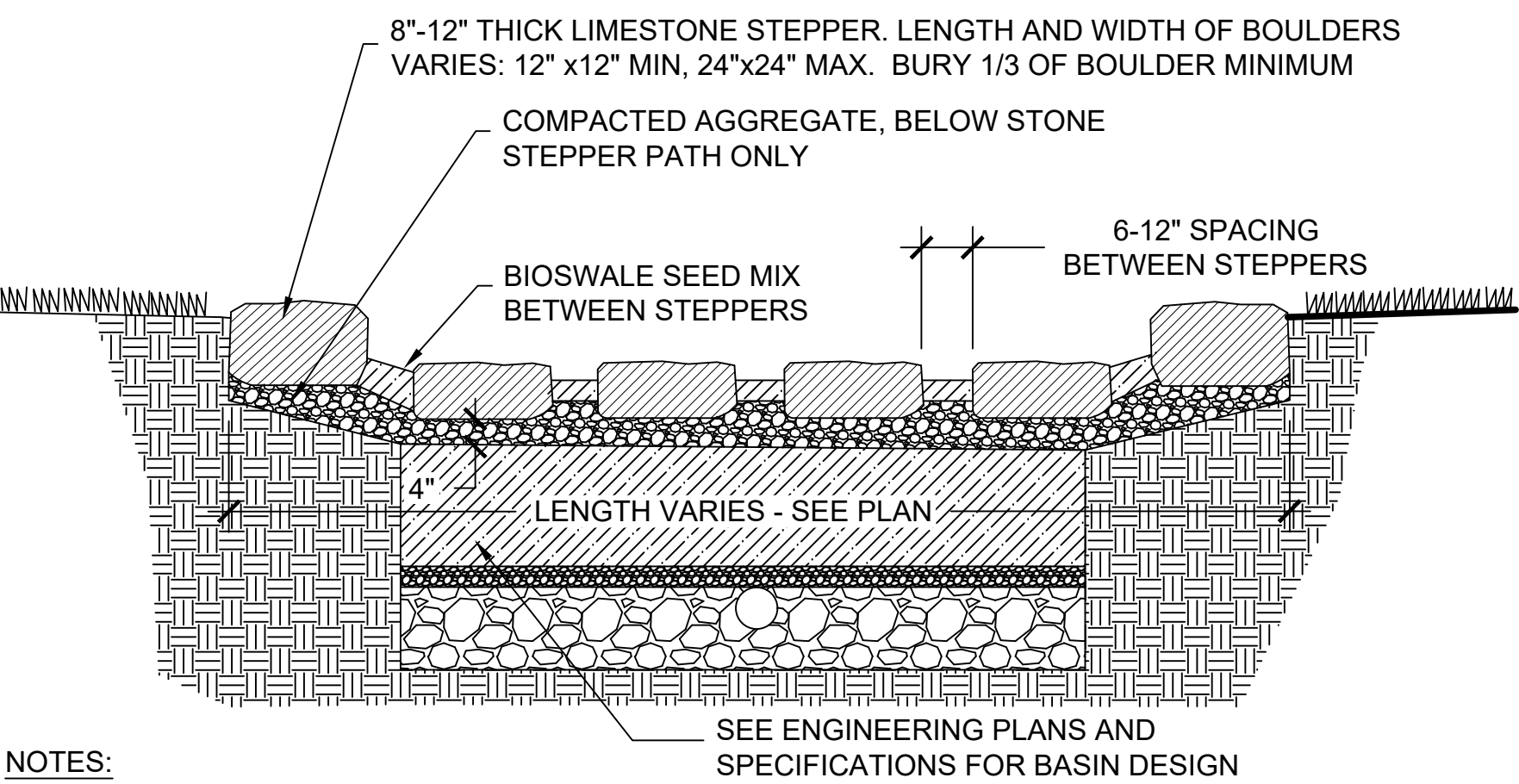
SITE NUMBER: 274

SHEET:  
**L500**

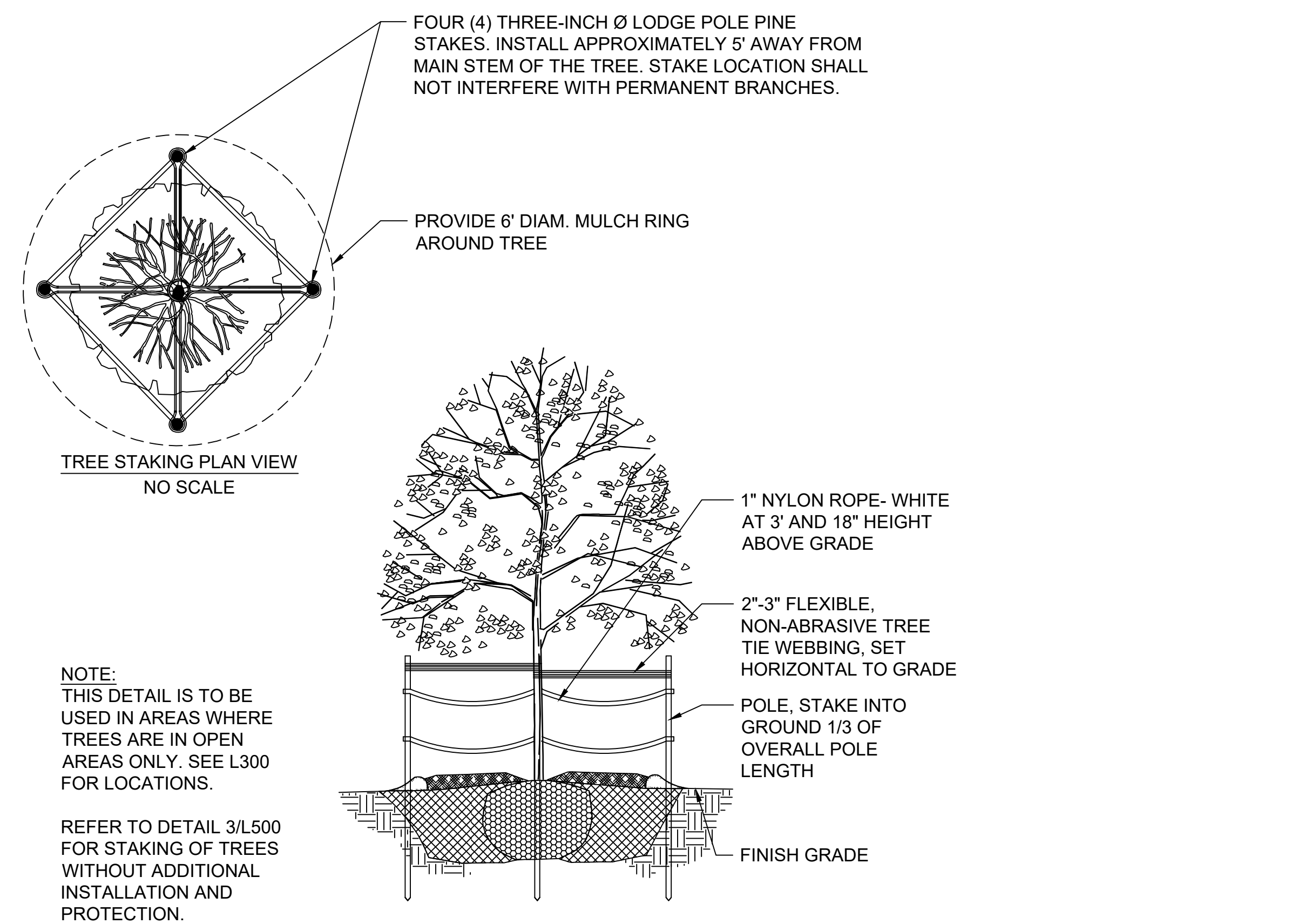




**1 BIOFILTRATION BASIN WITH MIXED PLANT TYPES**  
SECTION  
0" 6" 12" 24"



**2 BIOSWALE STEPPING STONE PATH**  
SECTION  
0" 6" 12" 24"



**3 TREE INSTALLATION AND PROTECTION STAKING**  
SECTION  
NTS

**PLANTING NOTES**

- CONTRACTOR SHALL INSPECT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS RELATED TO THE NATURE AND SCOPE OF WORK.
- 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.
- 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.
- 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.
- EXISTING TREES TO REMAIN SHALL BE FERTILIZED AND PRUNED TO REMOVE DEAD WOOD, DAMAGED, AND/OR RUBBING BRANCHES.
- CONTRACTOR SHALL COORDINATE THE PHASES OF CONSTRUCTION AND PLANTING INSTALLATION WITH OTHER CONTRACTORS WORKING ON THE SITE.
- CONTRACTOR TO COMPLETE SOIL PREPARATION PER SPECIFICATIONS.
- CONTRACTOR TO SUPPLY AND INSTALL SOD, TREES, SHRUBS, PERENNIALS, GRASSES, PLUGS, AND GROUNDCOVERS.
- 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.
- ALL PLANTS AND TREES SHALL BE PLANTED PER DETAILS AND SPECS.
- ALL TREES, AS IDENTIFIED ON THE PLANS, SHALL BE STAKED AS SHOWN ON THE PLANTING DETAILS UNLESS NOTED OTHERWISE ON THE PLANS.
- NO PLANTS SHALL BE INSTALLED UNTIL FINAL GRADES AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- 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.
- 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.
- ADJUSTMENTS IN LOCATION OF PROPOSED PLANT MATERIAL MAY BE NEEDED IN FIELD. PRIME CONSULTANT MUST BE NOTIFIED PRIOR TO THE ADJUSTMENT OF PLANTS.
- 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.

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APPROVED BY: **MM**  
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SEAL AND SIGNATURE

PROJECT NUMBER: 8174 (DIVISION 3)  
SITE NUMBER: 274

SHEET:  
**L501**

