



Wauwatosa, WI

Design Review Board

Meeting Agenda - Final

7725 W. North Avenue
Wauwatosa, WI 53213

Thursday, January 18, 2024

7:00 PM

Committee Room 1

Regular Meeting

CALL TO ORDER

ROLL CALL

NEW BUSINESS

1. 116th Street Park Buildings and Structures [23-1365](#)
2. 11530 Burleigh - Horicon Bank - RTU Screening [23-843](#)
3. 900 N 92nd Street - Froedtert Hospital Expansion [24-0050](#)

ADJOURNMENT

NOTICE TO PERSONS WITH A DISABILITY

Persons with a disability who need assistance to participate in this meeting should call the City Clerk's office at (414) 479-8917 or send an email to tclerk@wauwatosa.net, with as much advance notice as possible.



Staff Report

File #: 23-1365

Agenda Date: 1/18/2024

Agenda #: 1.

116th Street Park Buildings and Structures

Submitted by:

Alex Krutsch - Parks and Forestry Superintendent

Department:

Public Works

A. Issue

Staff is seeking Board approval of the exterior design and aesthetic qualities of the restroom, picnic pavilion, and playground shade structures being planned for the 116th Street Park.

B. Background/Options

The Common Council of Wauwatosa has allocated 2 million dollars of American Rescue Plan Act (ARPA) funds through the City's Capital Improvement Plan (CIP) for the development of a new city park located at the intersection of 116th Street and Gilbert Avenue on the City's West side.

In addition to the ARPA funds staff and our consultants have secured close to \$2 million in grant funding for the park. This funding has allowed staff to plan additional amenities such as a restroom, shade structures, and a picnic pavilion. These upgraded facilities will certainly create a more comfortable and enjoyable experience for residents visiting the park.

The restroom, shade structures, and picnic pavilion being planned for the park are all pre-fabricated structures. Sourcing pre-fabricated structures has allowed staff to select vandal resistant materials, keep costs within the limits of grant funding, and procure structures in accordance with the park's construction timeline while providing attractive amenities that fit with the overall aesthetic of the park. Pre-fabricated structures have the added benefit of a manufacturer's warranty.

Included in the agenda packet are restroom elevations with floorplan, picnic pavilion drawings with precedent imagery, shade structure renderings, and a park site plan for the Boards consideration. Members of the Board will notice two possible color schemes represented on the restroom elevations. These schemes were presented by the manufacturer as examples of a subdued color scheme (scheme "A") and a more vibrant color scheme (scheme "B") and are meant to show how color can be applied to the structure. The colors themselves do not represent staffs color selection. With that said, staff believes the use of color in "Scheme B" continues the fun and vibrant aesthetic of the playground and helps unify the space. Staff will present the board with physical color samples for the structure at the board meeting.

C. Strategic Plan (Area of Focus)

Priority Area Three: Infrastructure

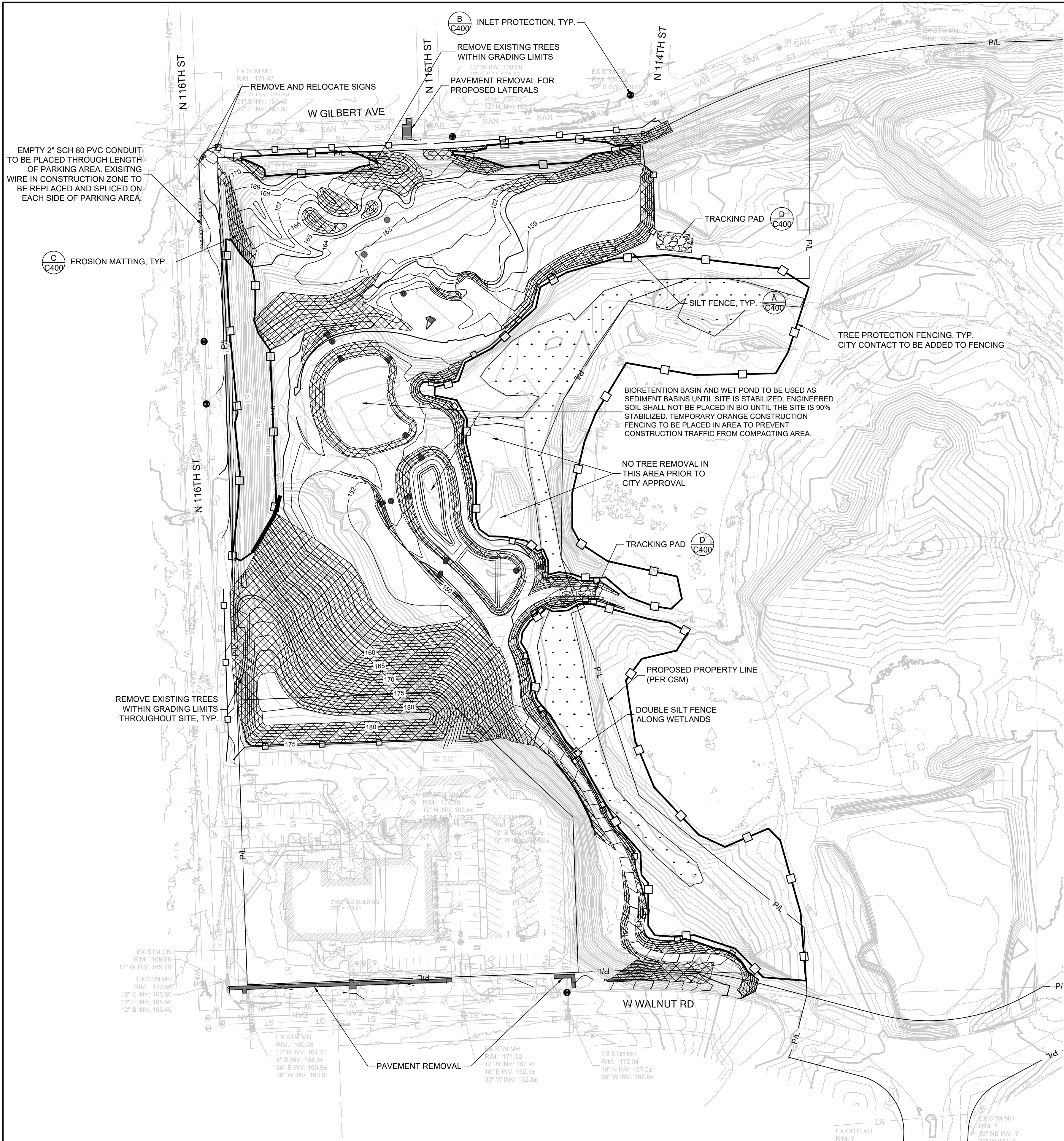
Priority Area Five: Quality of Life

D. Fiscal Impact

The initial expense of the structures is being covered by grant funding. Staff has selected vandal resistant, low maintenance finishes such as steel roofs, cement board siding, and split block facades. This should keep maintenance expenses low for years to come. While there will certainly be some expense with maintaining and operating these buildings it is anticipated that the parks current operating budget will be able to absorb those costs.

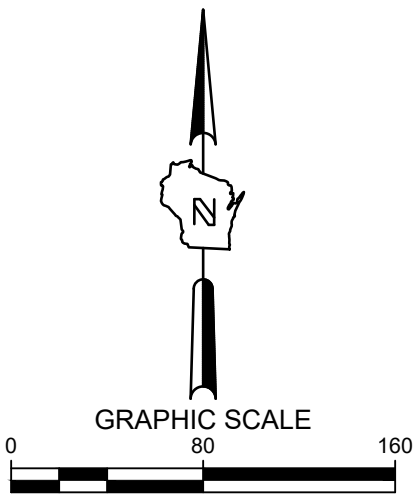
E. Recommendation

Staff recommends approval of the exterior design and finishes of the restroom, picnic pavilion, and shade structures being planned for the 116th Street Park.



LEGEND:

- PROPOSED SILT FENCE
- PROPOSED INLET PROTECTION
- PROPOSED TRACKING PAD
- PROPOSED EROSION MATTING WISDOT APPROVED CLASS 1 TYPE B
- PROPOSED TREE PROTECTION FENCE (SEE SHEET L501)
- PAVEMENT REMOVAL
- EXISTING CONTOUR
- PROPOSED CONTOUR
- CURB REMOVAL
- STRUCTURE REMOVAL



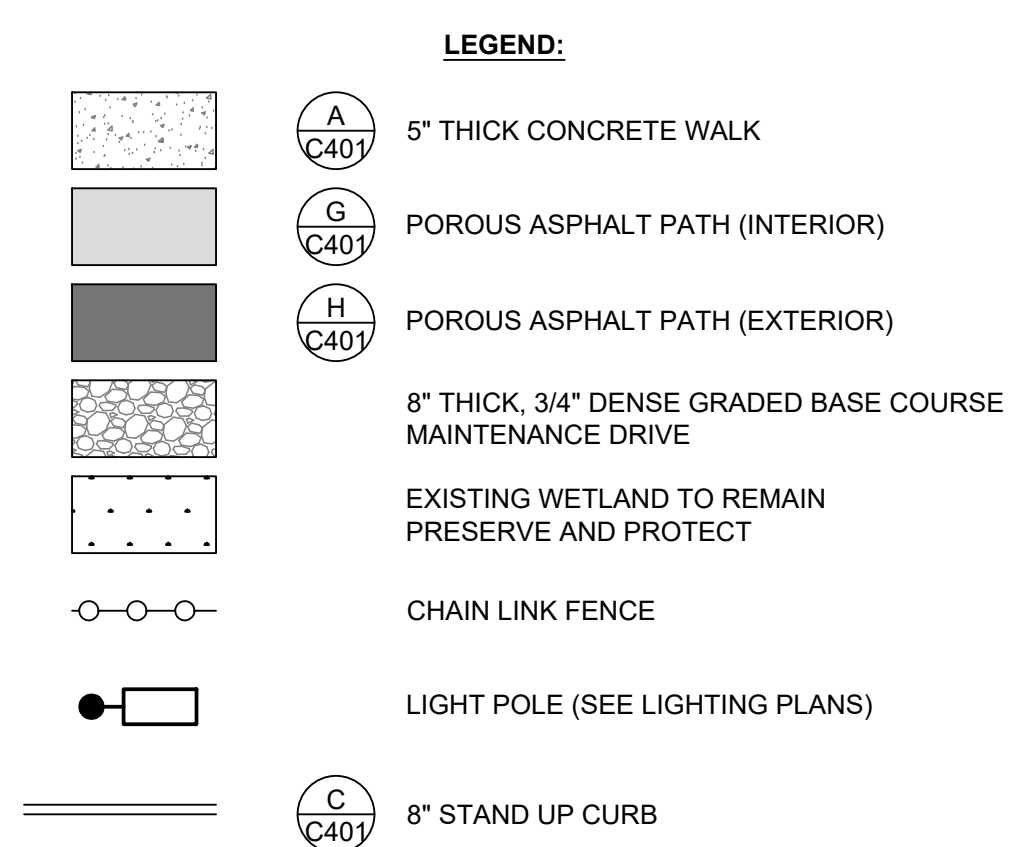
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 - VERIFY ACTUAL LOCATIONS AND INVERTS IN THE FIELD. ANY POTENTIAL ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
 - WORK TO BE COMPLETED IS INDICATED IN BOLD TYPE LINES AND EXISTING CONDITIONS ARE INDICATED BY LIGHT TYPE LINES.
 - ELECTRONIC CIVIL FILES ARE AVAILABLE UPON WRITTEN REQUEST. DO NOT USE ELECTRONIC CIVIL FILES TO LAYOUT FOUNDATIONS, COLUMN LINES, LIGHT POLES, OR OTHER NON CIVIL SITE WORK. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF BUILDING AND ARCHITECTURAL FEATURES.
 - SEE SHEET C400 FOR A COMPLETE LIST OF EROSION CONTROL NOTES AND DETAILS. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO START OF LAND DISTURBING ACTIVITIES.
 - DO NOT BEGIN LAND DISTURBING ACTIVITIES UNTIL AN EROSION CONTROL PERMIT IS OBTAINED FROM LOCAL JURISDICTION.
 - PRIVATE CONSTRUCTION THAT DISTURBS UNDERGROUND UTILITIES IS REQUIRED TO INSTALL AND MAINTAIN ENCLOSED RAT TRAPS OR BAIT STATIONS.

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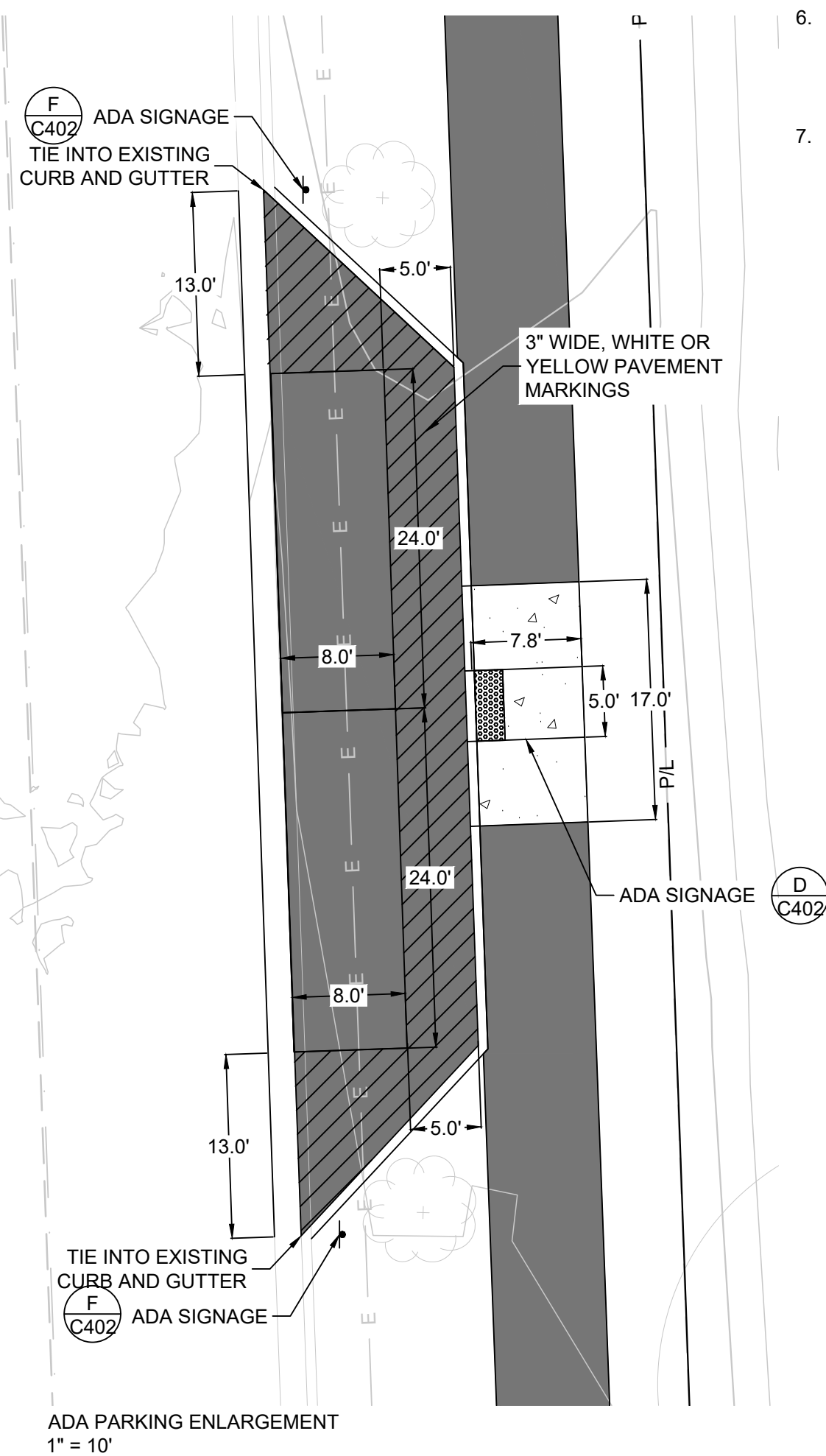
CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE
WIS. STATUTE 182.07(2)(1974)
REQUIRES MIN. 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE
MILW. AREA 259-1181

CONTRACT: 21231		C002
FILE NO: JRG		
DRAWN BY: CTC		
CHECKED BY: AS SHOWN		
SCALE:		
EROSION CONTROL PLAN		
1900 N 116TH STREET WAUWATOSA, WI 53226		
CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION		
SIGMA GROUP THE SITE		
CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION		
DESCRIPTION		
DATE		



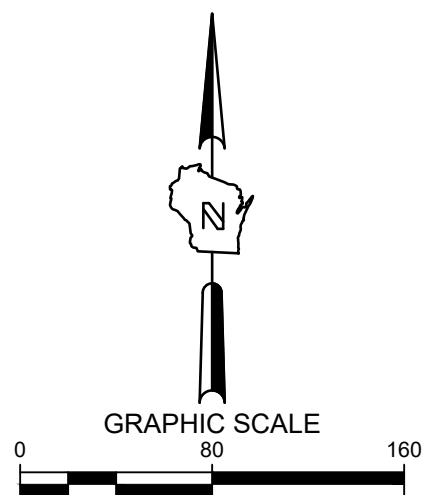
SITE INFORMATION			
SITE AREA	521611	11.975 AC	
SITE DISTURBED AREA	372576	8.553 AC	
EXISTING IMPERVIOUS AREA	1590	0.037 AC	0.3 %
EXISTING PERVIOUS AREA	370986	8.517 AC	99.6 %
PROPOSED IMPERVIOUS AREA	90710	2.082 AC	24.3 %
PROPOSED PERVIOUS AREA	280276	6.434 AC	75.2 %
ADA PARKING SPACES	4		
BIKE PARKING SPACES	9		

NOTE:
ALL PAVEMENT MARKINGS ARE TO BE 3 INCH WIDE STRIPES OF WHITE
OR YELLOW PAINT.



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 5. DIMENSIONS ARE FROM FACE OF CURB OR EDGE OF PAVEMENT.
 6. WORK WITHIN THE PUBLIC RIGHT OF WAY, INCLUDING BUT NOT LIMITED TO DRIVEWAY OPENINGS, SIDEWALK AND RAMPS, PAVING, AND CURB AND GUTTER SHALL BE COMPLETED PER MUNICIPAL AND/OR COUNTY REQUIREMENTS AND STANDARDS.
 7. EARTHWORK SHALL BE IN ACCORDANCE WITH GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.



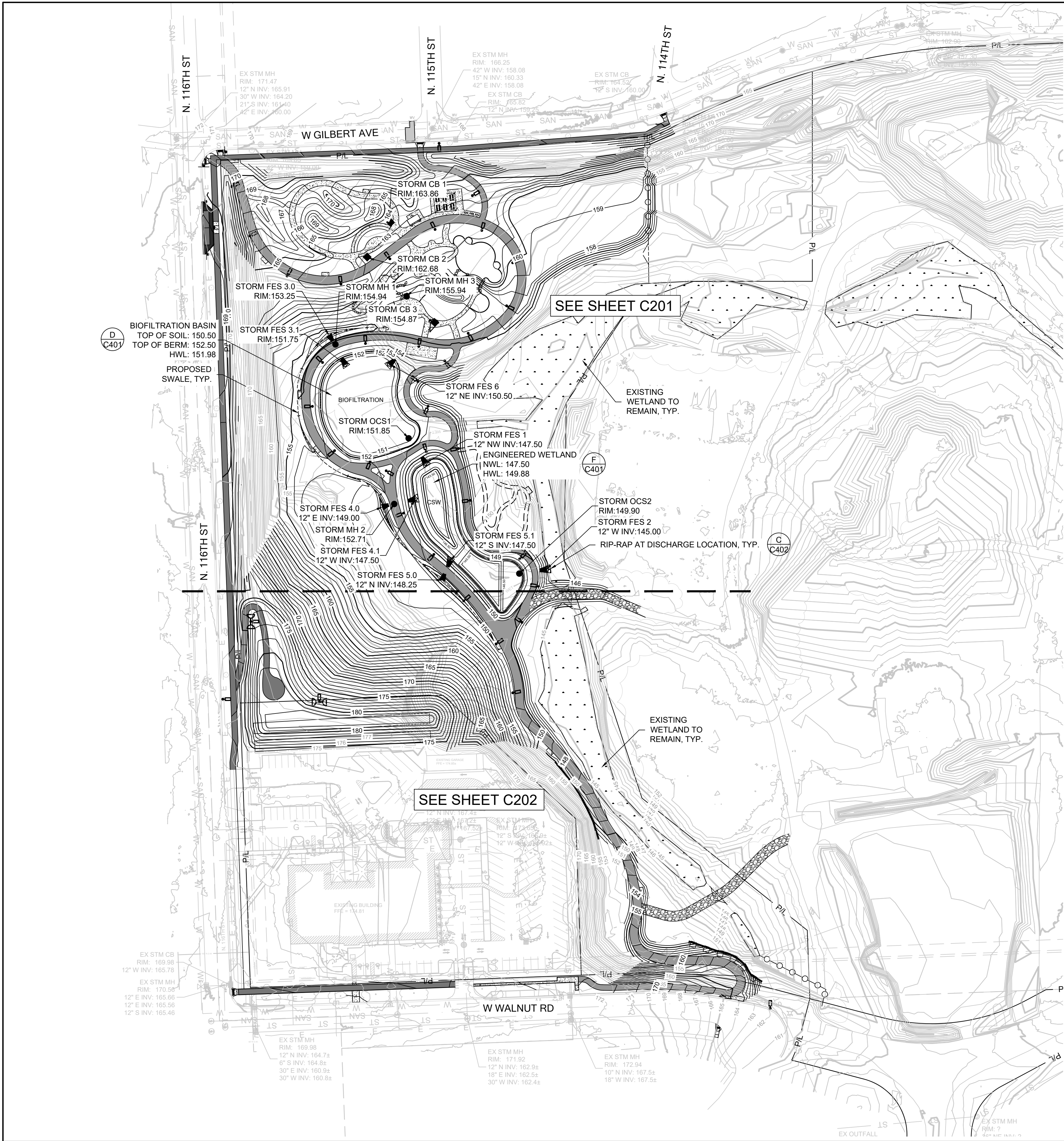
TO OBTAIN LOCATIONS OF
PARTICIPANTS UNDERGROUND
FACILITIES BEFORE YOU
DIG IN WISCONSIN



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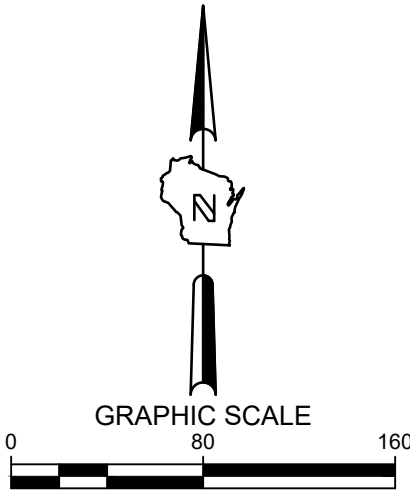


LEGEND:

- 5" THICK CONCRETE WALK
- POROUS ASPHALT PATH (INTERIOR)
- POROUS ASPHALT PATH (EXTERIOR)
- 8" THICK, 3/4" DENSE GRADED BASE COURSE MAINTENANCE DRIVE
- EXISTING WETLAND TO REMAIN PRESERVE AND PROTECT
- CHAIN LINK FENCE
- LIGHT POLE (SEE LIGHTING PLANS)
- 8" STAND UP CURB
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SWALE
- PROPOSED CURB & GUTTER SPOT GRADE
T/C: TOP OF CURB GRADE
FL: FLOW LINE CURB GRADE
- PROPOSED SURFACE SPOT GRADE
- PROPOSED TOP OF WALL AT FINISHED GRADE
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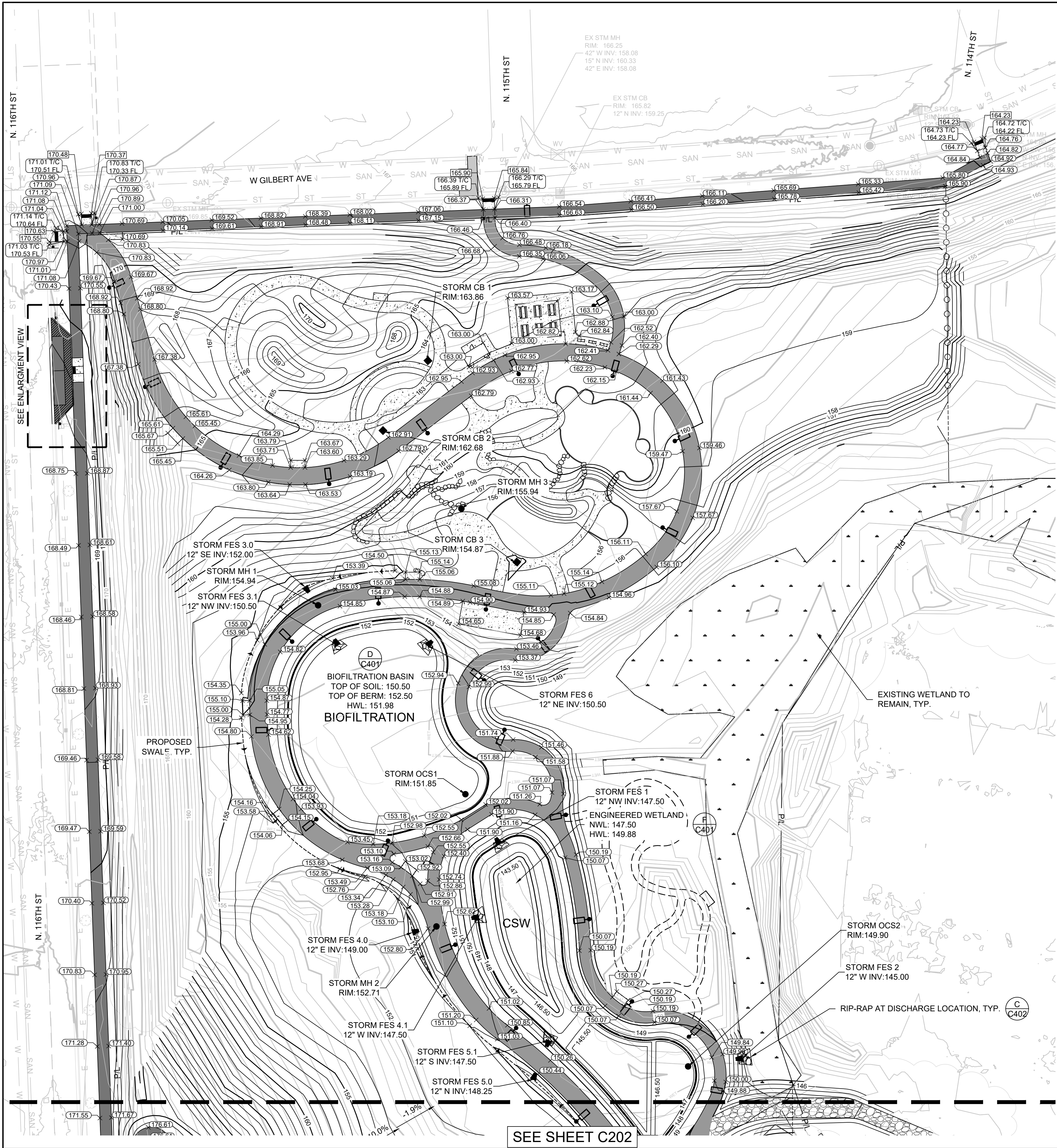
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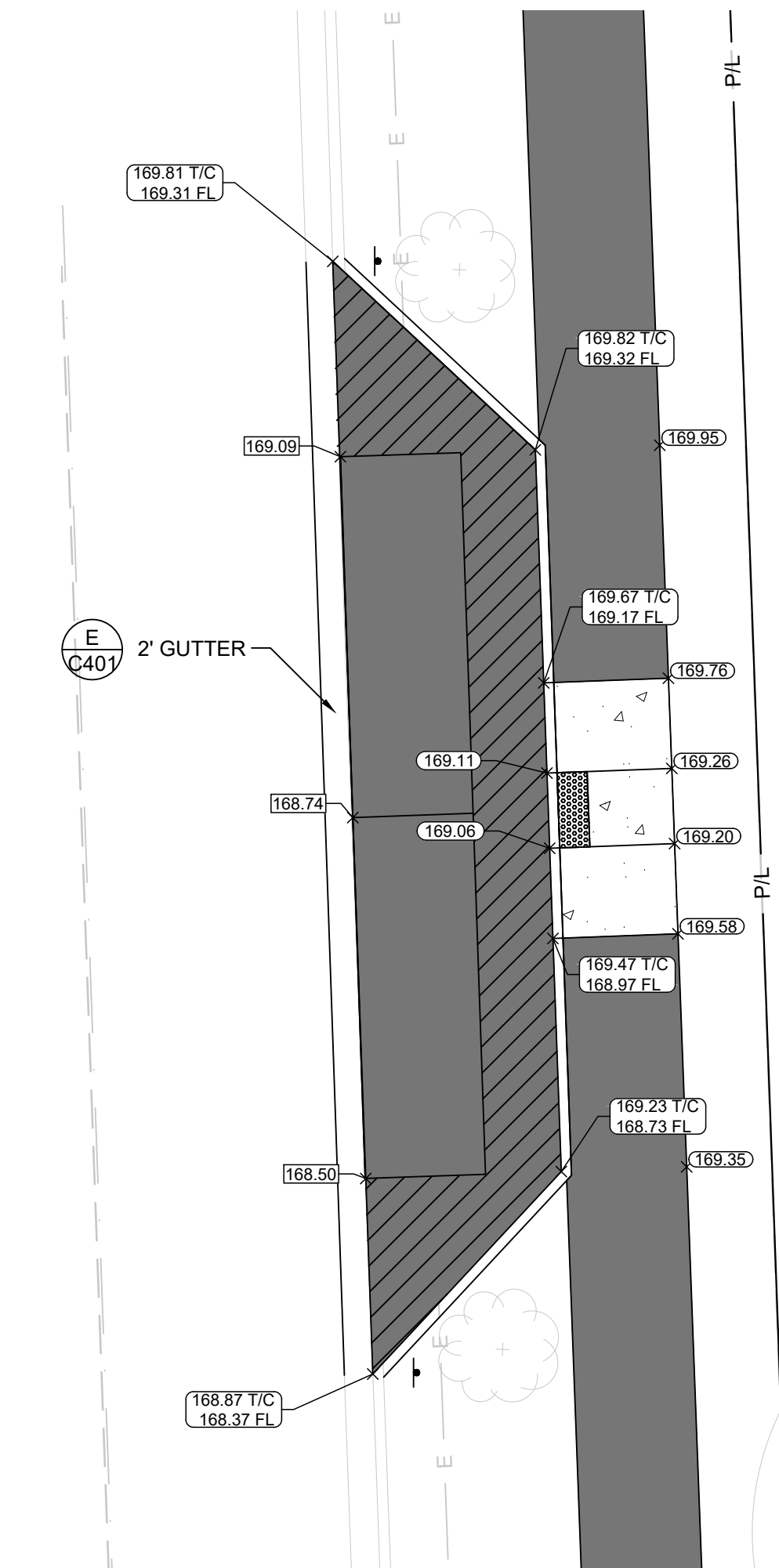
WIS. STATUTE 182.075(1074)
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CONTRACT: 21231		C200
FILE NO:	JRG	
DRAWN BY:	CTC	
CHECKED BY:	AS SHOWN	
SCALE:		
GRADING PLAN		
1900 N 116TH STREET WAUWATOSA, WI 53226		
CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION		
SIGMA GROUP The Site		
DESCRIPTION		
DATE		

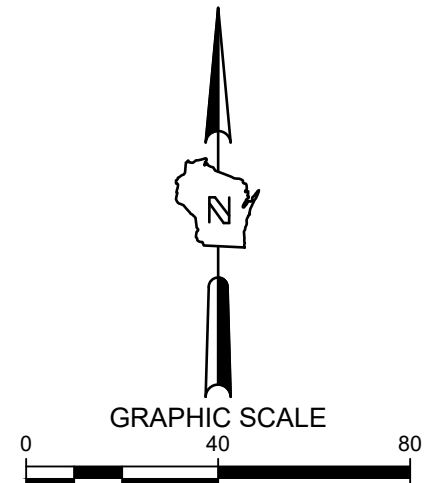


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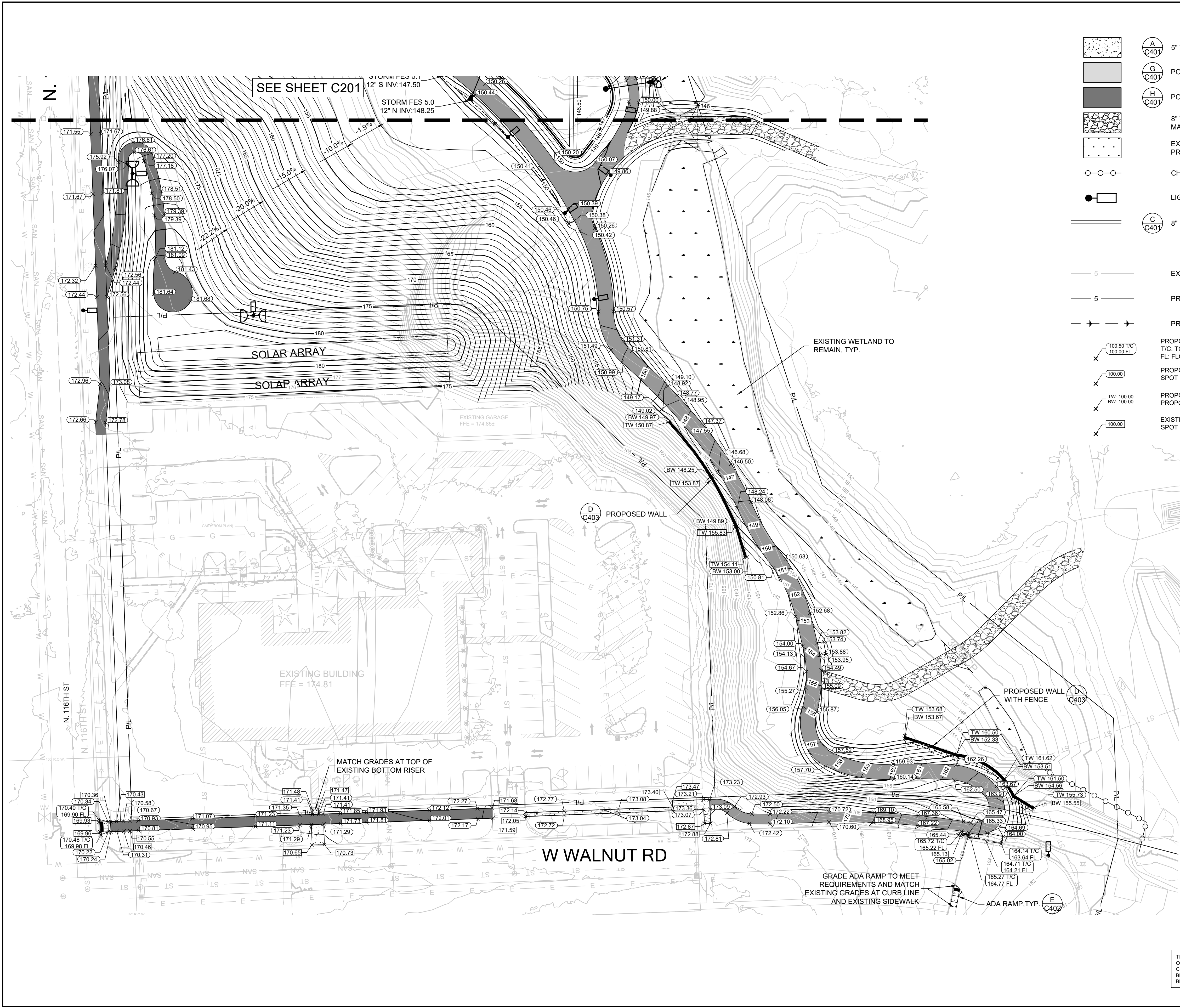
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CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION	
THE SIGMA GROUP Single Source. Sound Solutions.	
DETAILED GRADING PLAN	
1900 N 116TH STREET WAUWATOSA, WI 53226	
CONTRACT: 21231	FILE NO: JRG
DRAWN BY: CTC	CHECKED BY: AS SHOWN
SCALE: C201	



LEGEND:

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- (G) POROUS ASPHALT PATH (INTERIOR)
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GRAPHIC SCALE: 0 40 80

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

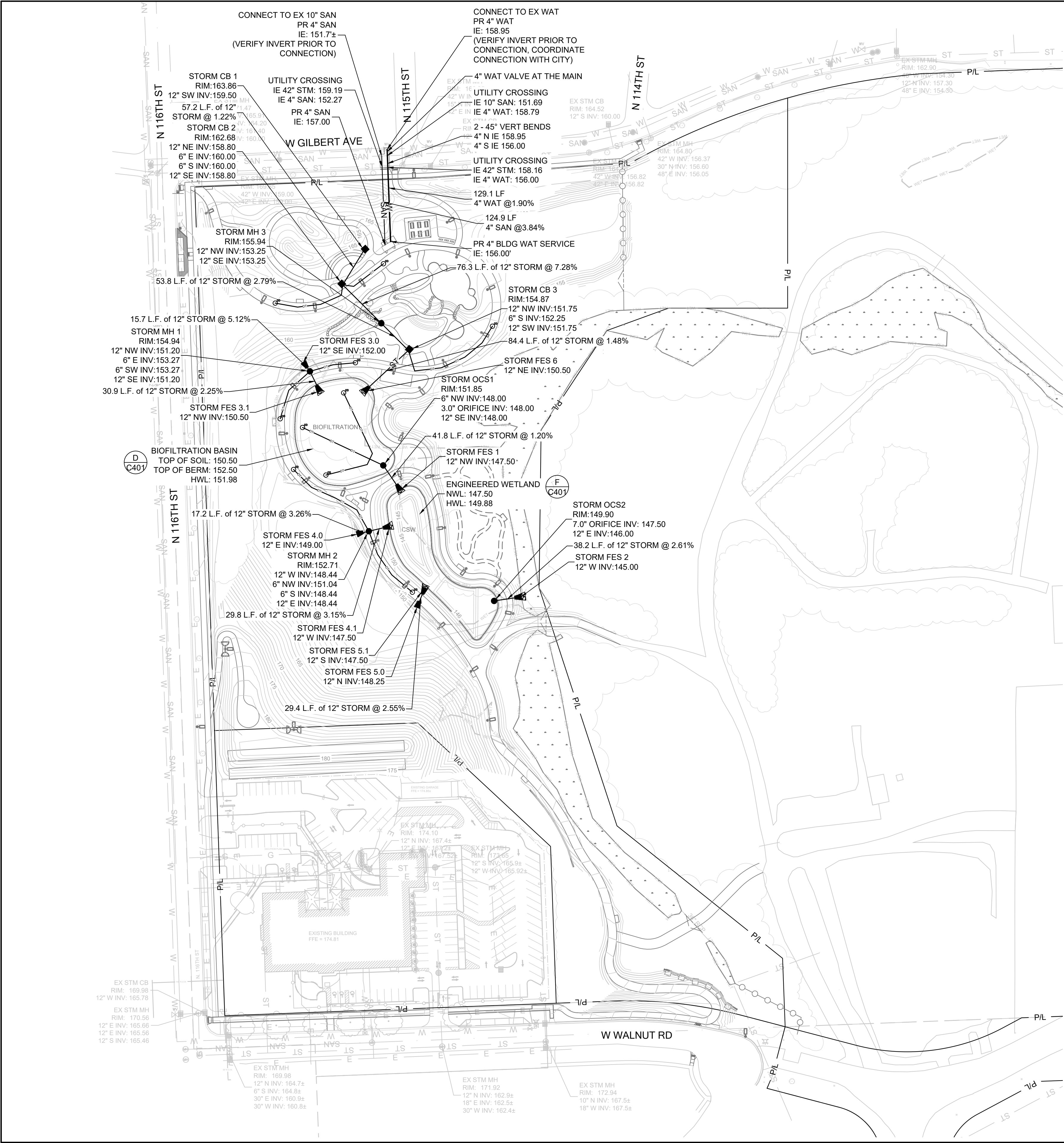
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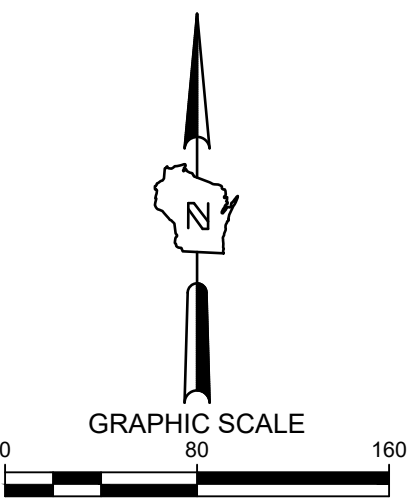
CONTRACT:		21231	
FILE NO:		JRG	
DRAWN BY:		CTC	
CHECKED BY:		AS SHOWN	
SCALE:		C202	
CITY OF WAUWATOSA		ENGINEERING SERVICES DIVISION	
1900 N 116TH STREET		WAUWATOSA, WI 53226	
DETAILED GRADING PLAN		SHEET: C202	



- LEGEND:**
- W — PROPOSED WATER SERVICE
 - SAN — PROPOSED SANITARY SERVICE
 - ST — PROPOSED STORM SEWER
 - DT — PROPOSED DRAIN TILE (UNDERDRAIN)
 - E — PROPOSED ELECTRICAL SERVICE
 - T — PROPOSED TELEPHONE SERVICE
 - G — PROPOSED GAS SERVICE

- (A) C402 PROPOSED STORM INLET
- (B) C402 PROPOSED STORM MANHOLE
- ▲ (C) C402 PROPOSED FLARED END SECTION

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 - ALL UTILITIES WITHIN 5 FEET OF PAVED AREAS SHALL REQUIRE GRANULAR BACKFILL. SLURRY BACKFILL IS REQUIRED FOR ALL WORK IN PUBLIC RIGHT OF WAY.
 - PRIVATE STORM INLETS IN PAVEMENT SHALL REQUIRE DRAIN TILE STUBS OF 10 FEET IN TWO DIRECTIONS FOR SUBDRAINAGE. RIM GRADE FOR STORM INLETS IN CURB AND GUTTER ARE FLOW LINE GRADES.
 - WORK IN PUBLIC RIGHT OF WAY SHALL FOLLOW MATERIAL AND INSTALLATION REQUIREMENTS PER MUNICIPAL AND/OR COUNTY.
 - PRIVATE STORM SEWER 12-INCH DIAMETER OR LARGER SHALL BE HDPE. BELOW 12-INCH DIAMETER SHALL BE PVC SDR-35 ASTM D3034. PRIVATE WATER MAIN SHALL BE CLASS 235 DR 18 PVC CONFORMING TO AWWA C-900. PRIVATE SANITARY SEWER SHALL BE PVC SDR-35 ASTM D3034.
 - COORDINATE FINAL LOCATION AND DESIGN OF PRIVATE UTILITY SERVICES (ELECTRIC, GAS, PHONE, CABLE) WITH UTILITY COMPANIES.
 - IF PROJECT IS DESIGN BUILD MEP, THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE FINAL SEWER AND WATER DESIGN SHOWING LOCATION, INVERTS AND SIZES TO THE ENGINEER FOR FINAL REVIEW AND VERIFICATION PRIOR TO STARTING UNDERGROUND UTILITY CONSTRUCTION.
 - WATER MAIN CONNECTION: TAP WATER MAIN WITH SIZE AND LOCATION INDICATED ON PLAN IN ACCORDANCE WITH LOCAL WATER UTILITY REQUIREMENTS. COORDINATE CONNECTION WITH LOCAL WATER UTILITY. ALL JOINTS SHALL BE RESTRAINED FROM CONNECTION OF WATER MAIN TO BUILDING WALL. SUBMIT JOINT RESTRAINT DETAILS FOR ALL JOINT TYPES INCLUDING PUSH-ON AND MECHANICAL CONNECTIONS. INSTALL MEGA-LUG OR APPROVED EQUAL TIGHT TO WALL FOR RESTRAINT FOR ALL BUILDING WALL PENETRATIONS AS APPROVED BY LOCAL PLUMBING INSPECTOR AND WATER UTILITY. INSTALL THRUST BLOCKING AND MEGA-LUG AT BEND BELOW FLOOR FOR ALL FLOOR PENETRATIONS.
 - INSTALL JOINT RESTRAINT AND CONCRETE THRUST BLOCKS AT ALL OFFSET FITTINGS (TEES, BENDS, DEAD ENDS, VALVES, REDUCERS) USING MEGA-LUG OR APPROVED EQUAL. CONCRETE THRUST BLOCKS SHALL BE INSTALLED PER FILE NO'S:44,45,46 FROM THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN. SEE DETAIL FOR MINIMUM LENGTH OF RESTRAINED JOINT REQUIRED. SUBMIT JOINT RESTRAINT DETAILS FOR ALL JOINT TYPES INCLUDING PUSH-ON AND MECHANICAL CONNECTIONS.



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DESCRIPTION		DATE	
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UTILITY PLAN		1900 N 116TH STREET WAUWATOSA, WI 53226	
CONTRACT:	21231	FILE NO:	JRG
DRAWN BY:	CTC	CHECKED BY:	AS SHOWN
SCALE:	C300		

NOTE: ADDITIONAL POST DEPTH OR THE BACKS MAY BE REQUIRED IN UNSTABLE SOILS ③

WOOD POSTS LENGTH 3'-4" 20" DEPTH IN GROUND

3'-0" MAX. 3'-0" MAX. 3'-0" MAX. 3'-0" MAX.

GEOTEXTILE FABRIC ONLY

BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL

ATTACH THE FABRIC TO THE POSTS WITH WIRE STAPLES OR WOODEN LATH AND NAILS

FLOW DIRECTION

SUPPORT CORD

GEOTEXTILE FABRIC

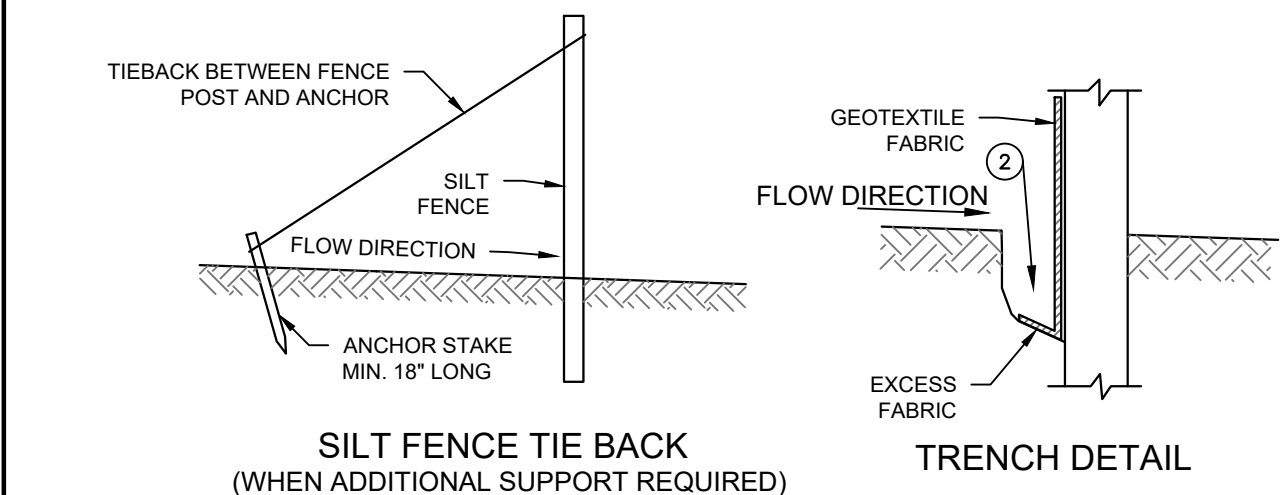
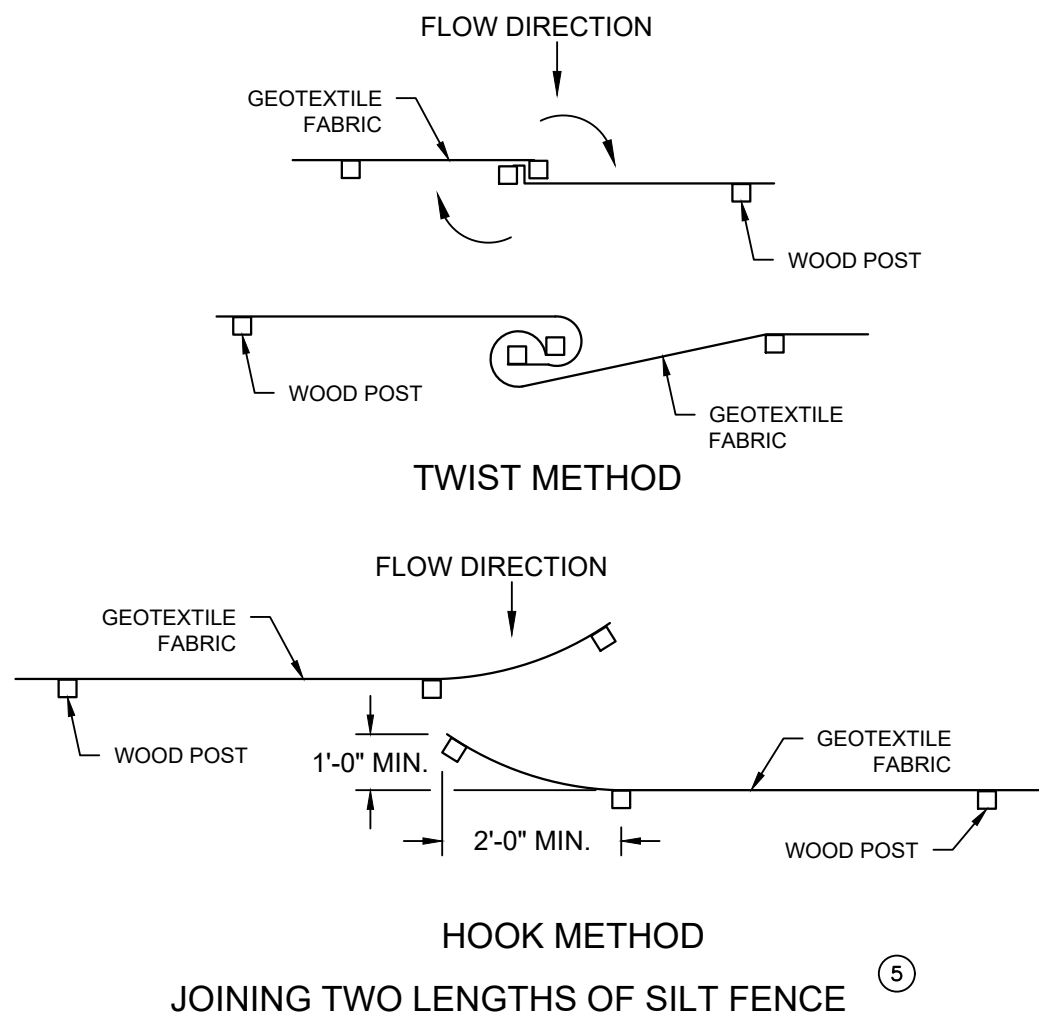
FOLD 3" MAX.

FLOW

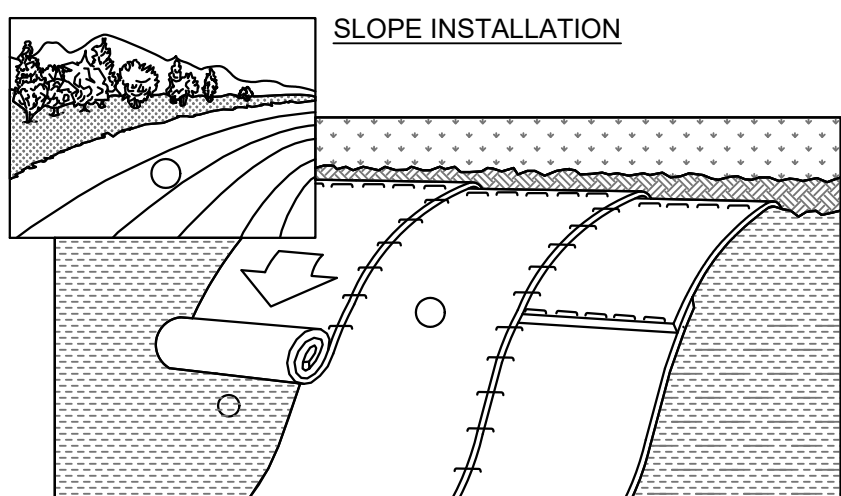
②

* NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE



A **SILT FENCE - WDNR TS-1056**
SCALE: NTS

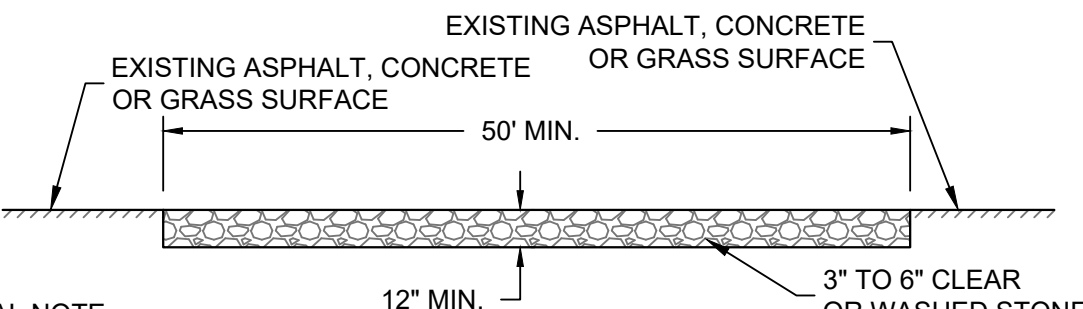


1. ECRMS (EROSION CONTROL REVEGATIVE MATS) SHALL BE INSTALLED AFTER ALL TOPSOILING, FERTILIZING, LIMING, AND SEEDING IS COMPLETE
2. THE MAT SHALL BE IN FIRM AND INTIMATE CONTACT WITH THE SOIL. IT SHALL BE INSTALLED AND ANCHORED PER THE MANUFACTURER'S RECOMMENDATION.
3. TRMS (TURF-REINFORCEMENT MAT) SHALL BE INSTALLED IN CONJUNCTION WITH THE TOPSOILING OPERATION AND SHALL BE FOLLOWED BY ECRM INSTALLATION.
4. AT TIME OF INSTALLATION, DOCUMENT THE MANUFACTURER AND MAT TYPE BY RETENTION OF MATERIAL LABELS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. RETAIN THIS DOCUMENTATION UNTIL THE SITE HAS BEEN STABILIZED.

NOTES:

1. EROSION MATTING SHALL CONFORM TO WDNR CONSERVATION PRACTICE STANDARD #1052.
2. INSTALL PER MANUFACTURERS SPECIFICATIONS.

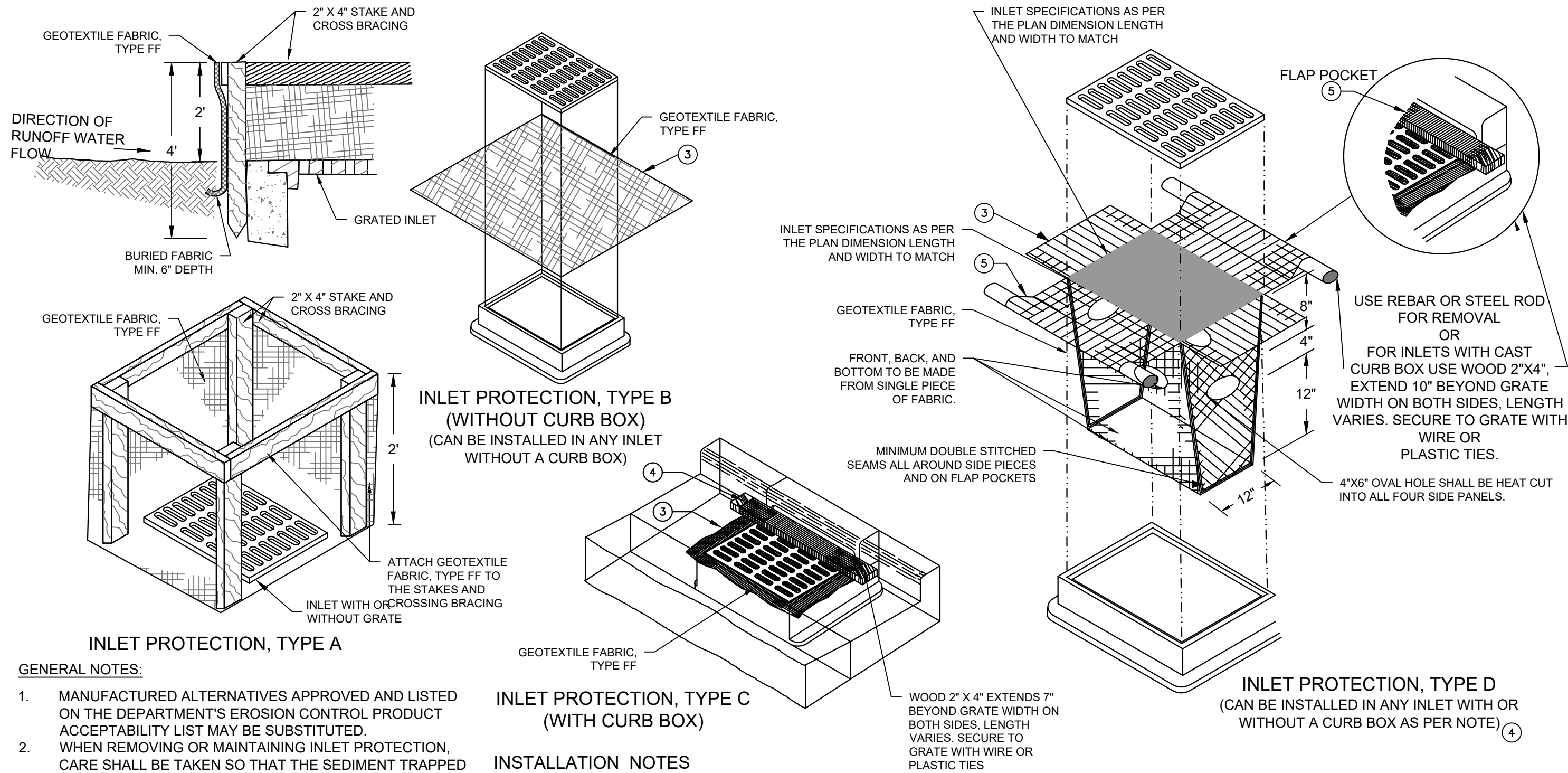
C EROSION MATTING - WDNR TS-1052
SCALE: NTS



GENERAL NOTE:

1. STONE TRACKING PAD SHALL CONFORM TO WDNR CONSERVATION PRACTICE STANDARD #1057
2. AN APPROVED MANUFACTURED TRACKOUT CONTROL DEVICE SYSTEM CONFORMING TO WDNR TECHNICAL STANDARD #1057 MAY BE USED AS AN ALTERNATIVE TO A STONE TRACKING PAD

(D) CONSTRUCTION ENTRANCE - WDNR TS-1057
SCALE: NTS



INLET PROTECTION, TYPE A

GENERAL NOTES:

1. MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.
2. 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.
- ③ FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXCEED A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL
- ④ 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.
- ⑤ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2x4.

B INLET PROTECTION - WDNR TS-1060
SCALE:NTS

INLET PROTECTION, TYPE C
(WITH CURB BOX)

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.

TYPE D
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 PLACES AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.




INLET PROTECTION, TYPE D
(CAN BE INSTALLED IN ANY INLET WITH OR
WITHOUT A CURB BOX AS PER NOTE)

GENERAL NOTE
INLET PROTECTION SHALL CONFORM TO WDNF
CONSERVATION PRACTICE STANDARD #1060

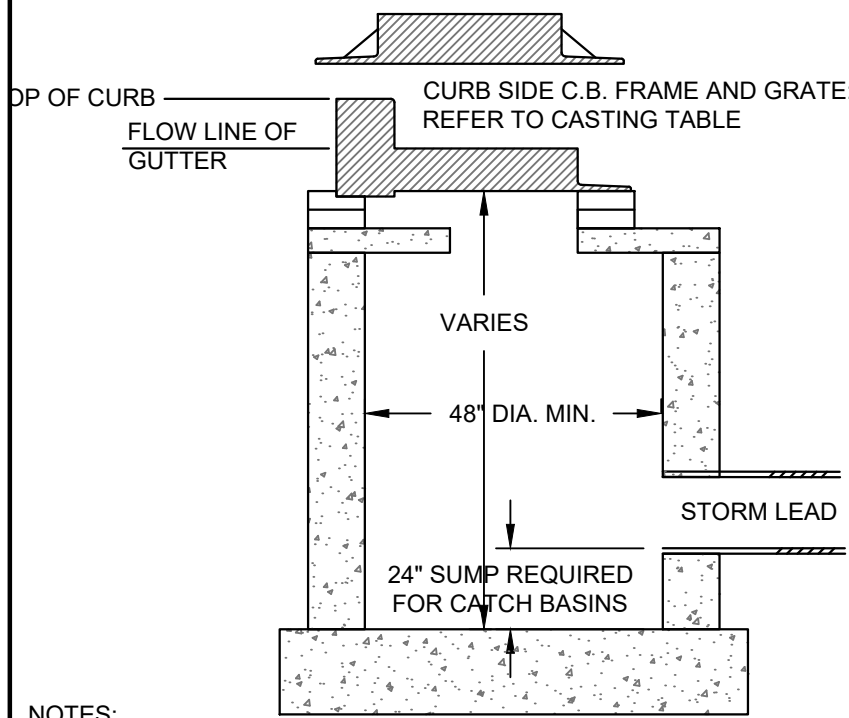
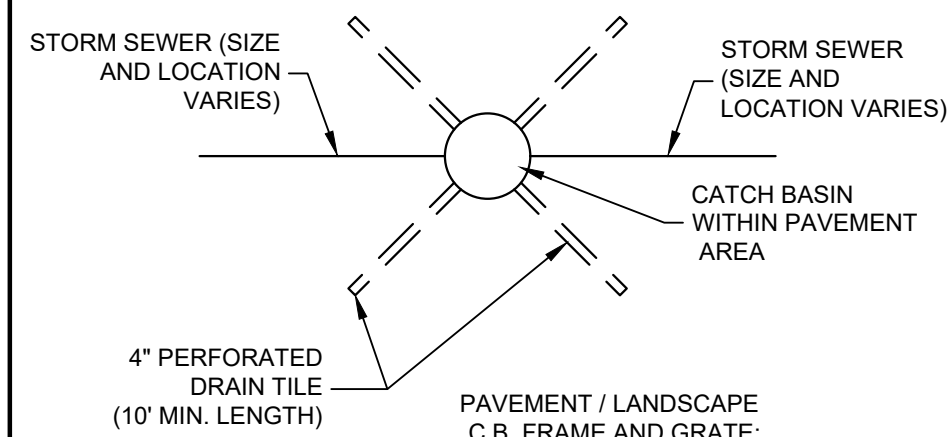
THIS DRAWING IS BASED ON
WISCONSIN DEPARTMENT
OF TRANSPORTATION
STANDARD DETAIL DRAWING
8 E 10-2

EROSION CONTROL NOTES:

3. CONSTRUCTION SITE EROSION CONTROL AND SEDIMENTATION CONTROL SHALL COMPLY WITH THE REQUIREMENTS OF THE LOCAL MUNICIPALITY AND SHALL EMPLOY EROSION CONTROL METHODS AS SHOWN AND SPECIFIED IN THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS.
2. ALL EROSION CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND SHALL BE INSTALLED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE SITE.
3. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED FOR STABILITY AND OPERATION AFTER A RAINFALL OF 0.5 INCHES OR MORE, BUT NO LESS THAN ONCE EVERY WEEK. MAINTENANCE OF ALL EROSION CONTROL STRUCTURES SHALL BE PROVIDED TO INSURE INTENDED PURPOSE IS ACCOMPLISHED. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP AND REMOVAL OF ALL SEDIMENT WHEN LEAVING PROPERTY. EROSION CONTROL MEASURES MUST BE IN WORKING CONDITION AT END OF EACH WORK DAY. DOCUMENT AND MAINTAIN RECORDS OF INSPECTIONS IN ACCORDANCE WITH WDNR NR216 REQUIREMENTS.
4. SILT FENCE SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE CONSTRUCTION PLANS. SEDIMENT DEPOSITS SHALL BE REMOVED FROM BEHIND THE SILT FENCE WHEN DEPOSITS REACH A DEPTH OF 6 INCHES. THE SILT FENCE SHALL BE REPAIRED OR REPLACED AS NECESSARY TO MAINTAIN A BARRIER.
5. FILTER FABRIC SHALL BE INSTALLED BENEATH INLET COVERS TO TRAP SEDIMENT PER INLET PROTECTION DETAIL IN THE LOCATIONS SHOWN ON THE CONSTRUCTION PLANS.
6. EROSION CONTROL MEASURES SHALL BE MAINTAINED ON A CONTINUING BASIS UNTIL SITE IS FULLY STABILIZED.
7. PERIODIC STREET SWEEPING SHALL BE COMPLETED TO MAINTAIN ADJACENT STREETS FREE OF DUST AND DIRT.
8. SILT FENCE SHALL BE INSTALLED IN HORSESHOE FASHION AROUND ANY TOPSOIL AND FILL STOCKPILES.
9. SITE DEWATERING. WATER PUMPED FROM THE SITE SHALL BE TREATED BY SEDIMENT BASINS OR OTHER APPROPRIATE MEASURES SPECIFIED IN THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS. WATER MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE, ADJACENT SITES OR RECEIVING CHANNELS.
10. WASTE AND MATERIAL DISPOSAL. ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS, OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED AND NOT ALLOWED TO BE CARRIED OFF-SITE BY RUNOFF OR WIND.
11. TRACKING. EACH SITE SHALL HAVE GRAVELED ROADS, ACCESS DRIVES AND PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH TO PREVENT SEDIMENT FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY STREET CLEANING, TO THE SATISFACTION OF THE **THE CITY OF WAUWATOSA**, BEFORE THE END OF EACH WORKDAY. FLUSHING MAY NOT BE USED UNLESS SEDIMENT WILL BE CONTROLLED BY A SEDIMENT BASIN OR PRACTICE SPECIFIED IN THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS. NOTIFY MUNICIPALITY OF ANY CHANGES IN STABILIZED CONSTRUCTION ENTRANCE LOCATION.
12. SEDIMENT CLEANUP. ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF A STORM EVENT SHALL BE CLEANED UP BY THE END OF THE NEXT WORKDAY. ALL OTHER OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE CLEANED UP BY THE END OF THE WORKDAY.
13. ALL DISTURBED GROUND LEFT INACTIVE FOR SEVEN OR MORE DAYS SHALL BE STABILIZED BY TEMPORARY OR PERMANENT SEEDING, MULCHING, SODDING, COVERING WITH TARPS, OR EQUIVALENT PRACTICE FOUND IN THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARD. IF TEMPORARY SEEDING IS USED, A PERMANENT COVER SHALL ALSO BE REQUIRED AS PART OF THE FINAL SITE STABILIZATION. SEEDING OR SODDING SHALL BE REQUIRED AS PART OF THE FINAL SITE STABILIZATION.
14. SOIL AND DIRT STORAGE PILES SHALL BE LOCATED A MINIMUM OF TWENTY-FIVE FEET FROM ANY DOWNSLOPE ROAD, LAKE, STREAM, WETLAND, OR DRAINAGE CHANNEL. STRAW BALE FILTER FABRIC FENCES SHALL BE PLACED ON THE DOWN SLOPE SIDE OF THE PILES. IF REMAINING FOR MORE THAN THIRTY DAYS, PILES SHALL BE STABILIZED BY MULCHING, VEGETATIVE COVER, TARPS OR OTHER MEANS.
15. WHEN THE DISTURBED AREA HAS BEEN STABILIZED BY PERMANENT VEGETATION OR OTHER MEANS, TEMPORARY PRACTICES, SUCH AS FILTER FABRIC FENCES, STRAW BALES, SEDIMENT AND SEDIMENT TRAPS, FOUND IN THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS SHALL BE REMOVED.
16. NOTIFY THE LOCAL MUNICIPALITY HAVING JURISDICTION WITHIN TWO WORKING DAYS OF COMMENCING ANY LAND DEVELOPMENT OR LAND DISTURBING ACTIVITY.
17. OBTAIN PERMISSION FROM THE LOCAL MUNICIPALITY HAVING JURISDICTION PRIOR TO MODIFYING THE EROSION CONTROL PLAN.
18. REPAIR ANY SILTATION OR EROSION DAMAGE TO ADJOINING SURFACES AND DRAINAGE WAYS RESULTING FROM LAND DEVELOPMENT OR LAND DISTURBING ACTIVITIES.
19. KEEP A COPY OF THE EROSION CONTROL PLAN ON SITE.
20. CONTRACTOR SHALL, TO THE EXTENT POSSIBLE, MINIMIZE DISTURBANCE OF EXISTING VEGETATION DURING CONSTRUCTION.
21. CONTRACTOR SHALL, TO THE EXTENT POSSIBLE, MINIMIZE COMPACTION OF TOPSOIL AND PRESERVE TOPSOIL IN GREENSPACE AREAS.
22. WASH WATER FROM VEHICLES AND WHEEL WASHING SHALL BE CONTAINED AND TREATED PRIOR TO DISCHARGE.
23. CONTRACTOR SHALL MAINTAIN SPILL KITS ON-SITE.
24. PERMANENT TURF SEEDING OF DISTURBED AREA MUST OCCUR PRIOR TO SEPTEMBER 15TH. IF ADEQUATE TIME IS NOT AVAILABLE TO APPLY PERMANENT SEEDING PRIOR TO SEPTEMBER 15TH, THEN DISTURBED AREAS SHALL BE TEMPORARILY SEEDDED WITH AN ANNUAL RYE GRASS PER WDNR TECHNICAL STANDARD 1059, WHERE THE TEMPORARY SEEDING MUST OCCUR PRIOR TO OCTOBER 15TH.
25. IF TEMPORARY SEEDING IS NOT COMPLETED BY OCTOBER 15TH, APPLY SOIL STABILIZERS AND DORMANT SEED TO DISTURBED AREA PER WDNR TECHNICAL STANDARD 1050. INSPECT ANIONIC PAM APPLICATION AT A MINIMUM FREQUENCY OF EVERY TWO MONTHS AND REAPPLY AS NECESSARY.

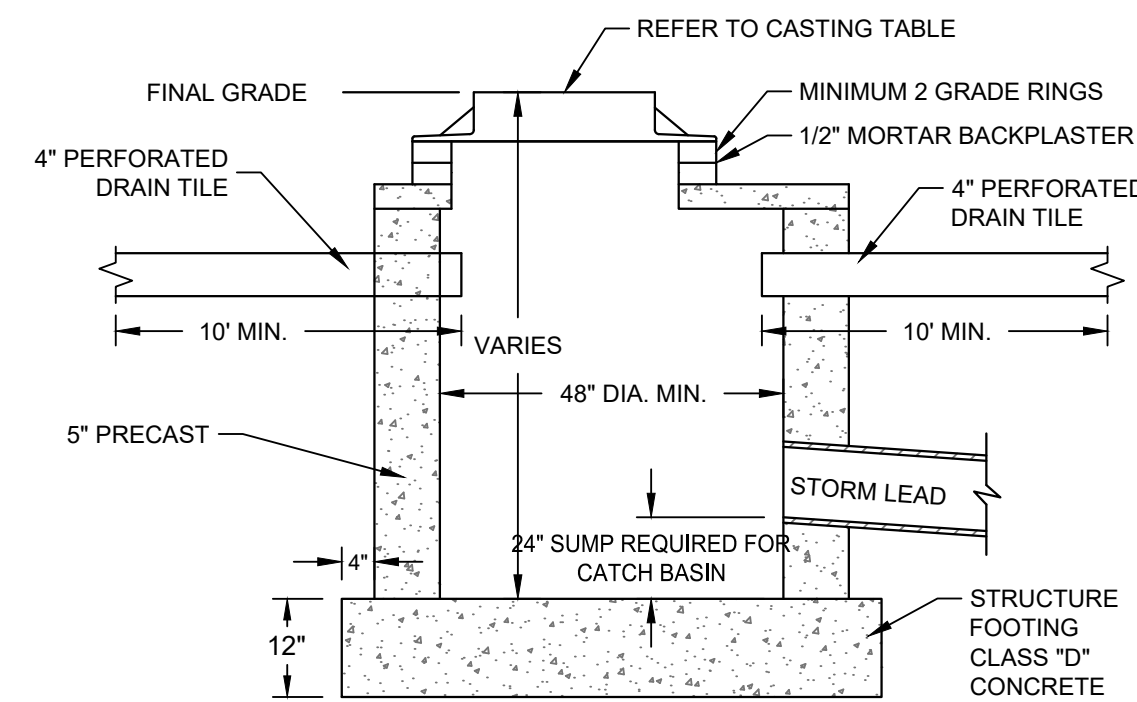
CITY OF WAUWATOSA		ENGINEERING SERVICES DIVISION	DATE	DESCRIPTION
				
				
				
EROSION CONTROL DETAILS				
		1900 N 116TH STREET		
		WAUWATOSA, WI 53226		
CONTRACT:	<small>PROJECT NO.</small>			
FILE NO:	21231			
DRAWN BY:	JRG			
CHECKED BY:	CTC			
SCALE:	AS SHOWN			
C400				

CATCH BASIN
WITHIN LOW POINT OF PAVEMENT AREA

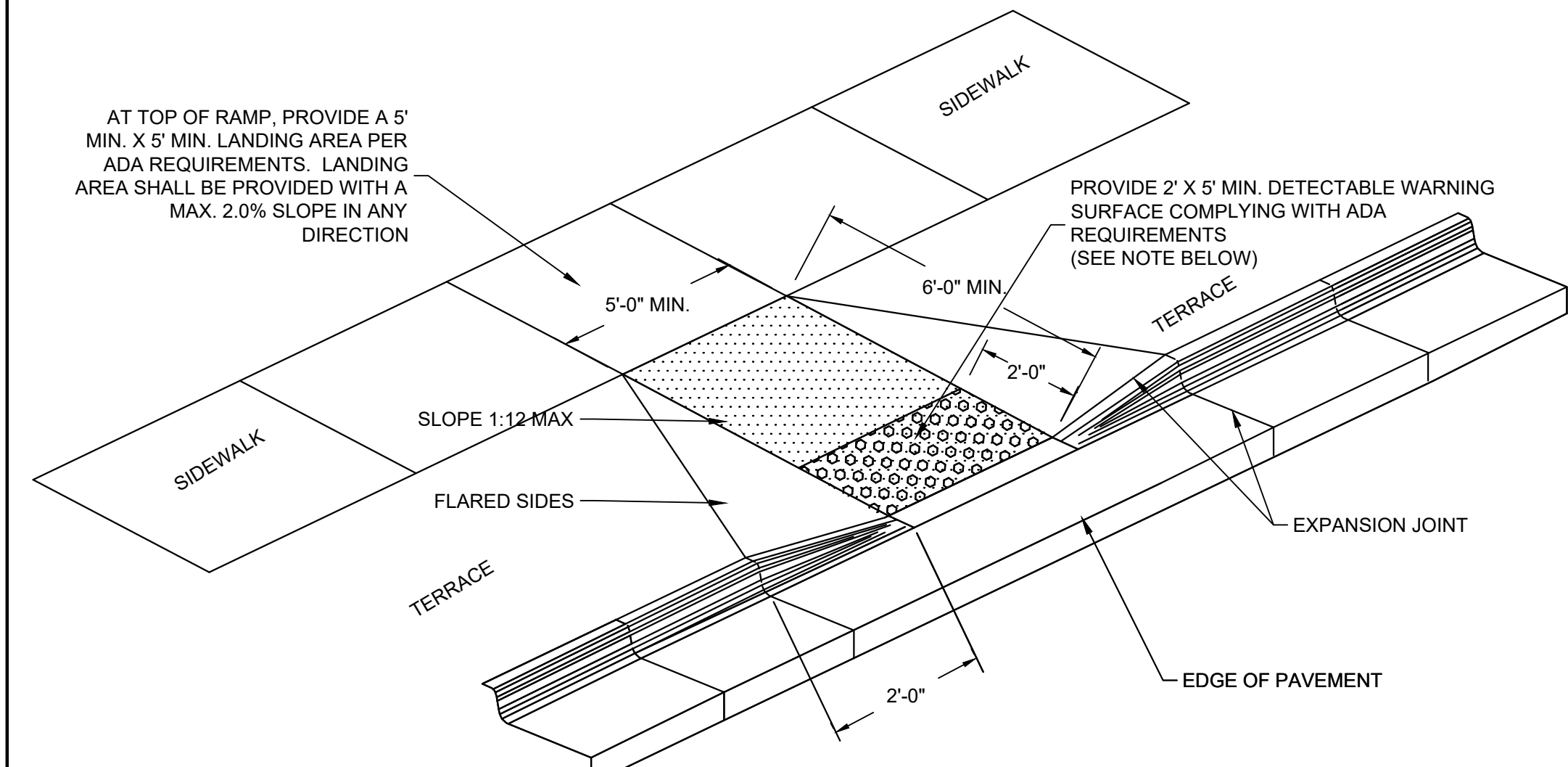


- NOTES:
1. ADJUST FRAME TO GRADE WITH CONCRETE RINGS OF VARIABLE THICKNESS. MAXIMUM RING HEIGHT = 6". MINIMUM RING HEIGHT = 2". CONCRETE RINGS SHALL BE REINFORCED WITH ONE LINE OF STEEL CENTERED WITHIN THE RING.
 2. CONCRETE AND REINFORCEMENT STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION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

A INLET AND CATCH BASIN
SCALE:NTS



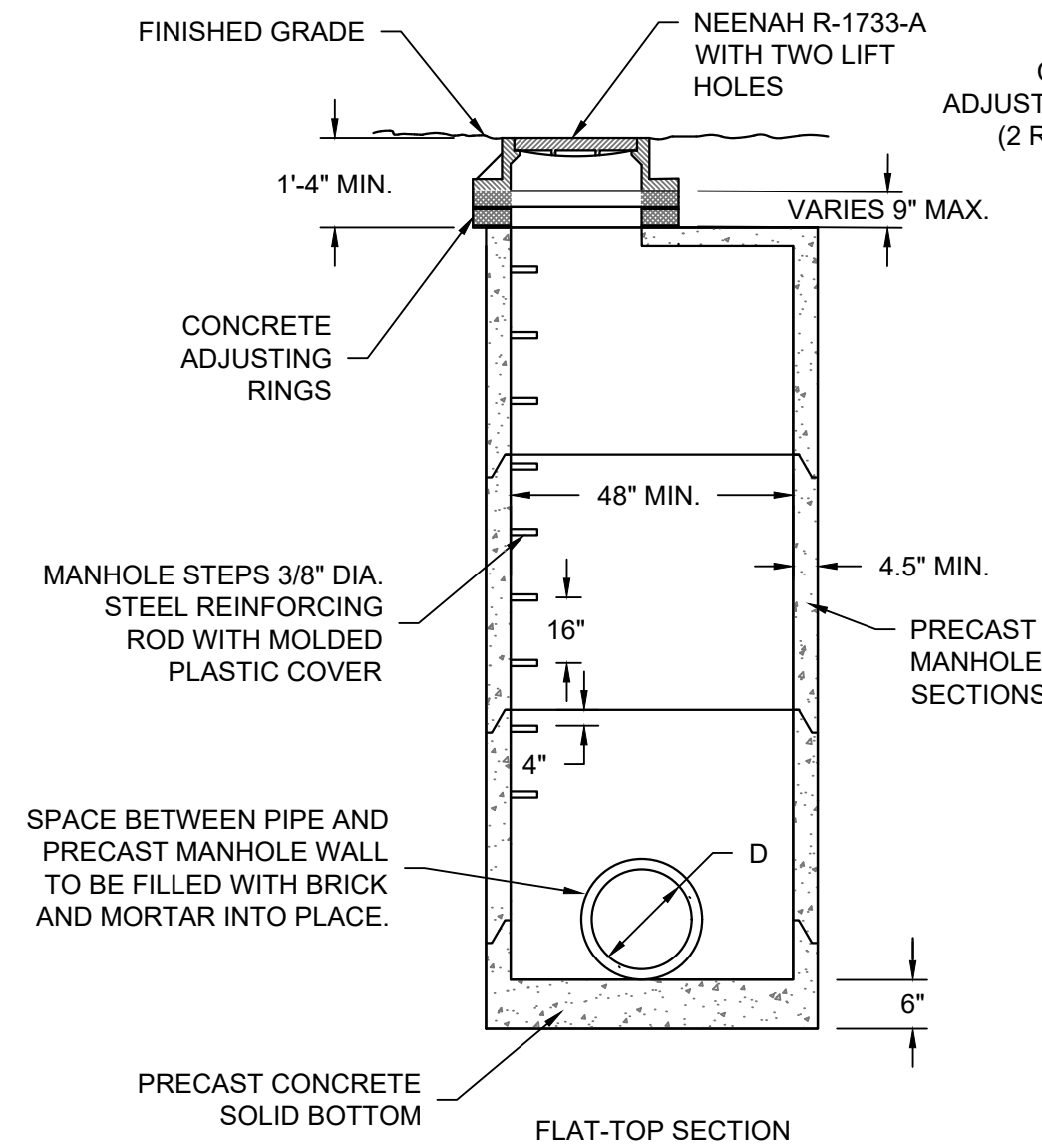
CATCH BASIN / INLET CASTING TABLE						
	IF 18" CURB & GUTTER		IF 24" CURB & GUTTER		IF 30" CURB AND GUTTER	
	CASTING	GRATE	CASTING	GRATE	CASTING	GRATE
CURB INLET	NEENAH R-3067	A	NEENAH R-3067	A	NEENAH R-3228H	C
AREA INLET	NEENAH R-1661-B	R-2467-D				



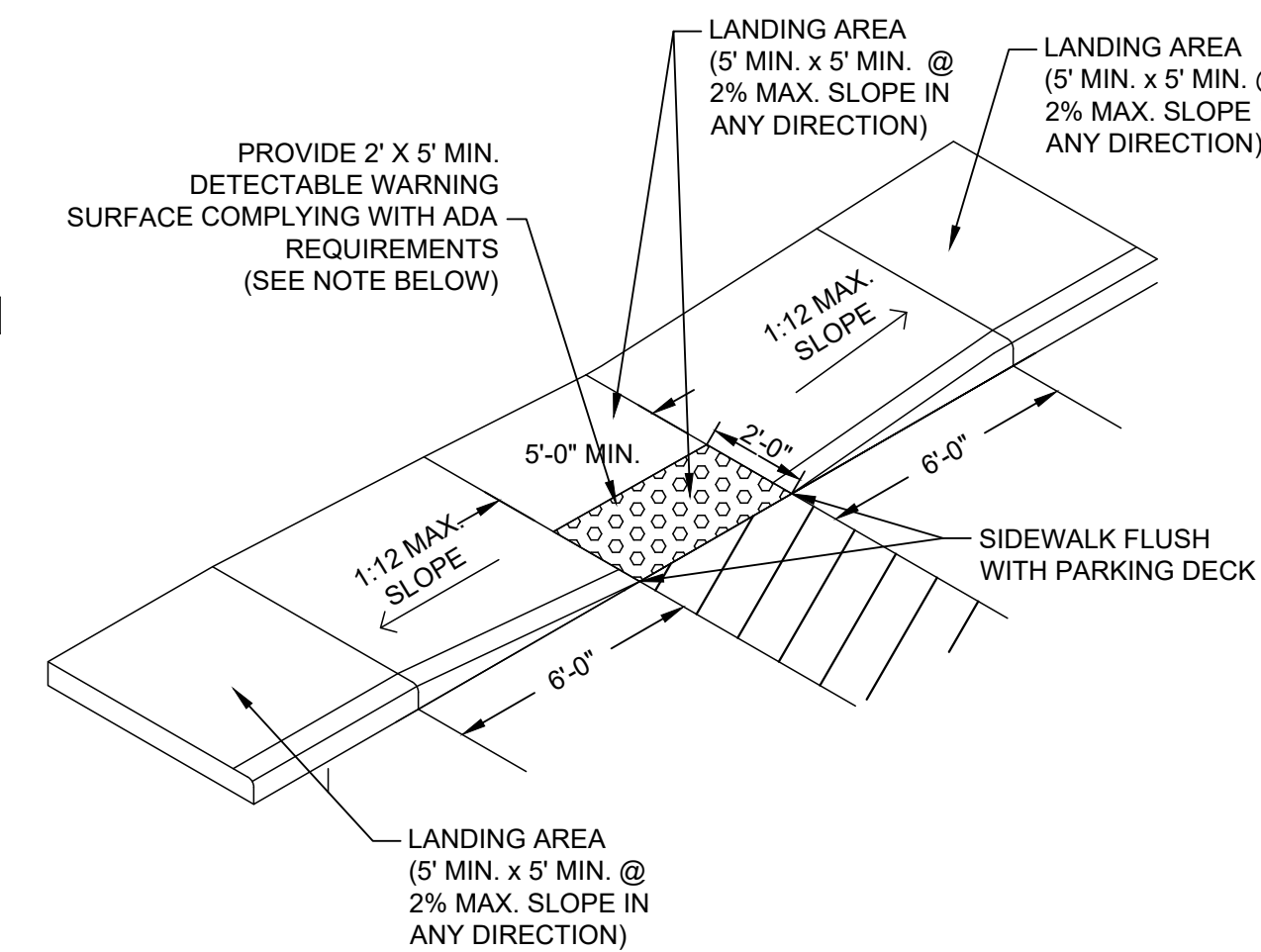
NOTES:

1. CONTRACTOR TO VERIFY ADA RAMP DETAIL WITH CITY AND ADJUST AS NEEDED.
2. PROVIDE DETECTABLE WARNING CONSISTING OF RAISED TRUNCATED DOMES OF SIZE, SPACING AND CONTRAST REQUIRED BY ADA GUIDELINES.
3. DETECTABLE WARNINGS SHALL BE PER CITY STANDARDS.

E ADA RAMP - TYPE 2
SCALE:NTS



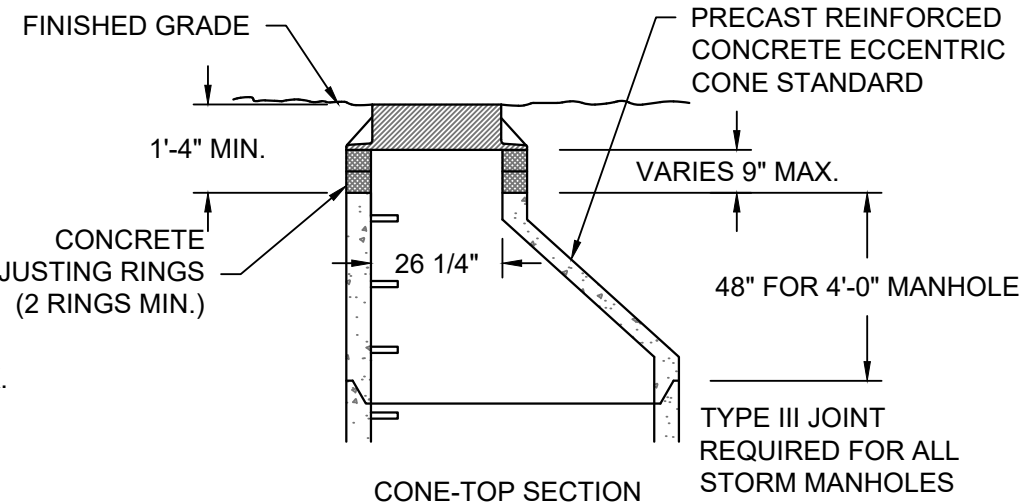
B PRECAST STORM MANHOLE
SCALE:NTS



NOTES:

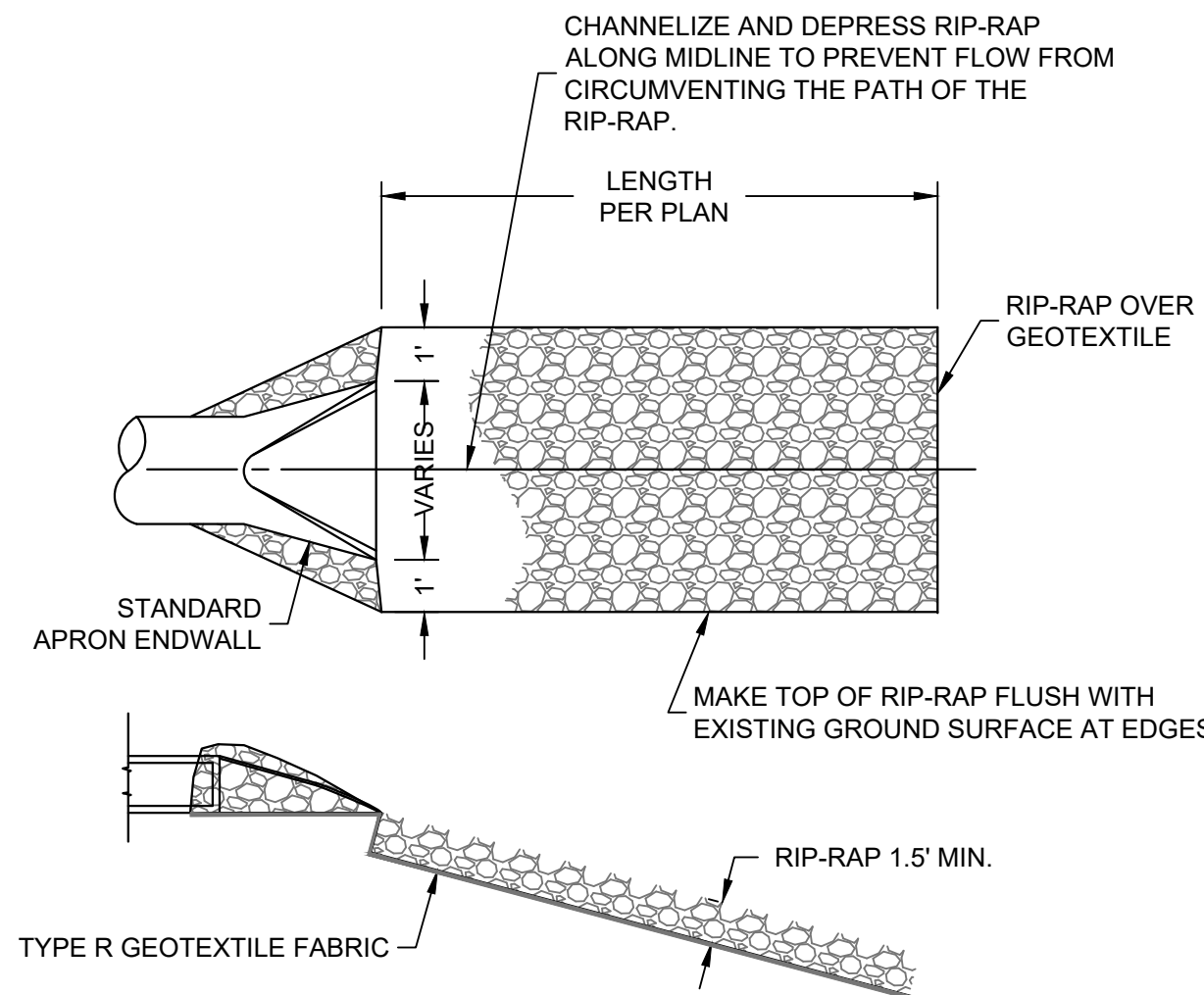
1. CONTRACTOR TO VERIFY ADA RAMP DETAIL WITH CITY AND ADJUST AS NEEDED.
2. PROVIDE DETECTABLE WARNING CONSISTING OF RAISED TRUNCATED DOMES OF SIZE, SPACING AND CONTRAST REQUIRED BY ADA GUIDELINES.
3. DETECTABLE WARNINGS SHALL BE PER CITY STANDARDS.

D ADA RAMP - TYPE 1
SCALE:NTS



NOTES:

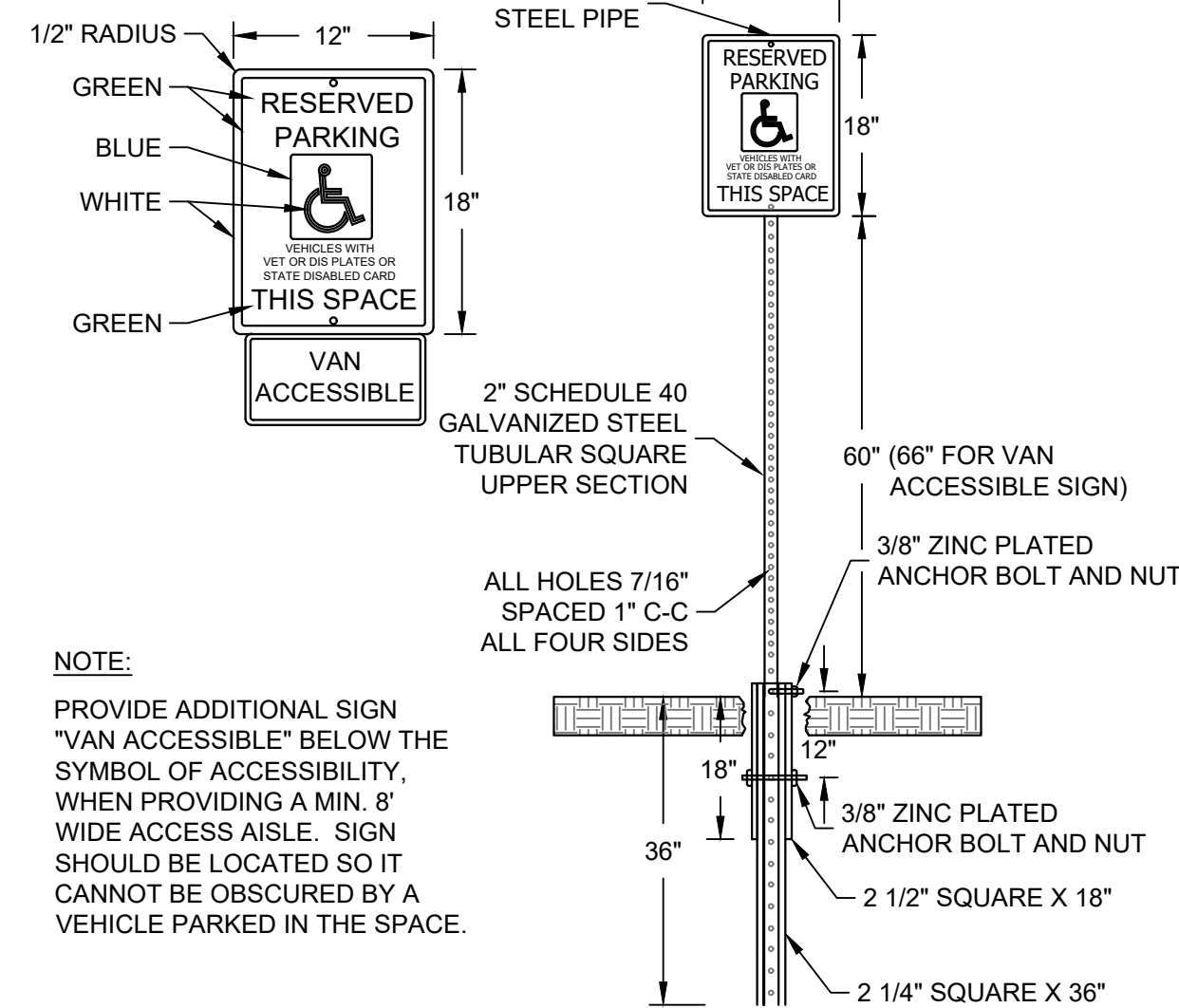
1. CONSTRUCT MANHOLE IN ACCORDANCE WITH FILE NO. 12 OF THE STATE STANDARD SPECIFICATIONS FOR SEWER AND WATER.
2. ADJUST FRAME TO GRADE WITH CONCRETE RINGS OF VARIABLE THICKNESS. MAXIMUM RING HEIGHT = 6". MINIMUM RING HEIGHT = 2". CONCRETE RINGS SHALL BE REINFORCED WITH ONE LINE OF STEEL CENTERED WITHIN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



NOTES:

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

C RIP-RAP DISCHARGE APRON
SCALE:NTS

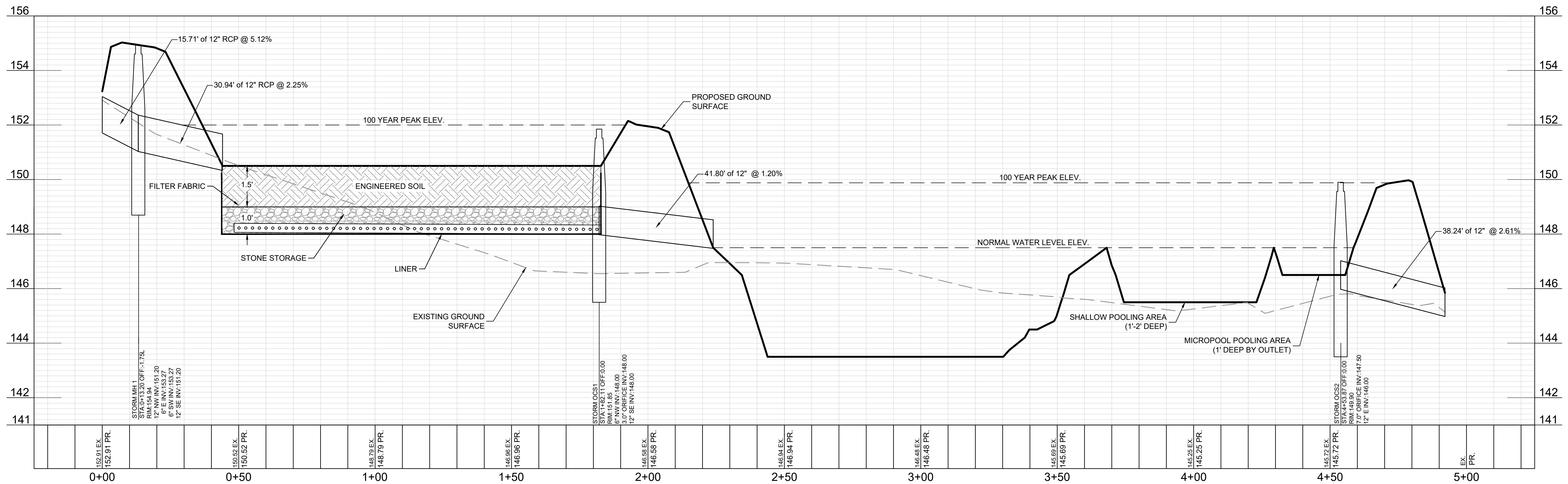


NOTE:

- PROVIDE ADDITIONAL SIGN "VAN ACCESSIBLE" BELOW THE SYMBOL OF ACCESSIBILITY, WHEN PROVIDING A MIN. 8" WIDE ACCESS AISLE. SIGN SHOULD BE LOCATED SO IT CANNOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.

F ADA SIGN AND POST
SCALE:NTS

CONTRACT:	21231	FILE NO:	JRG	DRAWN BY:	CTC	CHECKED BY:	AS SHOWN	SCALE:	C402
UTILITY DETAILS									
1900 N 116TH STREET WAUWATOSA, WI 53226									
CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION									
SIGMA GROUP Single Source. Sound Solutions.									
SITe									



C404	GI CROSS SECTION		 Single Source, Sound Solutions. 	 CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION	DATE	DESCRIPTION
	CONTRACT: *****					
	FILE NO: 21231					
	DRAWN BY: JRG					
	CHECKED BY: CTC					
	SCALE: AS SHOWN					

SEGMENTAL RETAINING WALL CONT.:

43. DRAINAGE AGGREGATE SHALL BE INSTALLED TO THE LINE, GRADES AND SECTIONS SHOWN ON THE FINAL P.E.-SEALED RETAINING WALL PLANS. DRAINAGE AGGREGATE SHALL BE PLACED TO THE MINIMUM THICKNESS SHOWN ON THE CONSTRUCTION PLANS BETWEEN AND BEHIND UNITS (A MINIMUM OF 1 CUBIC FOOT FOR EACH EXPOSED SQUARE FOOT OF WALL FACE UNLESS OTHERWISE NOTED ON THE FINAL WALL PLANS).
44. DRAINAGE COLLECTION PIPES SHALL BE INSTALLED TO MAINTAIN GRAVITY FLOW OF WATER OUTSIDE THE REINFORCED-SOIL ZONE. THE DRAINAGE COLLECTION PIPE SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE FINAL CONSTRUCTION DRAWINGS. THE DRAINAGE COLLECTION PIPE SHALL DAYLIGHT INTO A STORM SEWER OR ALONG A SLOPE, AT AN ELEVATION BELOW THE LOWEST POINT OF THE PIPE WITHIN THE AGGREGATE DRAIN. DRAINAGE LATERALS SHALL BE SPACED AT A MAXIMUM 50-FOOT SPACING ALONG THE WALL FACE.
45. THE REINFORCED BACKFILL SHALL BE PLACED AS SHOWN IN THE FINAL WALL PLANS IN THE MAXIMUM COMPACTED LIFT THICKNESS OF 8 INCHES AND SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR DENSITY (ASTM D 698) AT A MOISTURE CONTENT WITHIN -1% POINT TO +3% POINTS OF OPTIMUM. THE BACKFILL SHALL BE PLACED AND SPREAD IN SUCH A MANNER AS TO ELIMINATE WRINKLES OR MOVEMENT OF THE GEOSYNTHETIC REINFORCEMENT AND THE SRW UNITS.
46. ONLY HAND-OPERATED COMPACTION EQUIPMENT SHALL BE ALLOWED WITHIN 3 FEET OF THE BACK OF THE WALL UNITS. COMPACTION WITHIN THE 3 FEET BEHIND THE WALL UNITS SHALL BE ACHIEVED BY AT LEAST THREE PASSES OF A LIGHTWEIGHT MECHANICAL TAMPER, PLATE, OR ROLLER.
47. AT THE END OF EACH DAY'S OPERATION, THE CONTRACTOR SHALL SLOPE THE LAST LEVEL OF BACKFILL AWAY FROM THE WALL FACING AND REINFORCED BACKFILL TO DIRECT WATER RUNOFF AWAY FROM THE WALL FACE.
48. AT COMPLETION OF WALL CONSTRUCTION, BACKFILL SHALL BE PLACED LEVEL WITH FINAL TOP OF WALL ELEVATION. IF FINAL GRADING, PAVING, LANDSCAPING AND/OR STORM DRAINAGE INSTALLATION ADJACENT TO THE WALL IS NOT PLACED IMMEDIATELY AFTER WALL COMPLETION, TEMPORARY GRADING AND DRAINAGE SHALL BE PROVIDED TO ENSURE WATER RUNOFF IS NOT DIRECTED AT THE WALL NOR ALLOWED TO COLLECT OR POND BEHIND THE WALL UNTIL FINAL CONSTRUCTION ADJACENT TO THE WALL IS COMPLETED.
49. SRW CAPS SHALL BE PROPERLY ALIGNED AND GLUED TO UNDERLYING UNITS WITH VERSA-LOK ADHESIVE, A FLEXIBLE, HIGH-STRENGTH CONCRETE ADHESIVE. RIGID ADHESIVE OR MORTAR ARE NOT ACCEPTABLE.
50. CAPS SHALL OVERHANG THE TOP COURSE OF UNITS BY 3/4 INCH TO 1 INCH. SLIGHT VARIATION IN OVERHANG IS ALLOWED TO CORRECT ALIGNMENT AT THE TOP OF THE WALL.
51. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT CONSTRUCTION BY OTHERS ADJACENT TO THE WALL DOES NOT DISTURB THE WALL OR PLACE TEMPORARY CONSTRUCTION LOADS ON THE WALL THAT EXCEED DESIGN LOADS, INCLUDING LOADS SUCH AS WATER PRESSURE, TEMPORARY GRADES, OR EQUIPMENT LOADING. HEAVY PAVING OR GRADING EQUIPMENT SHALL BE KEPT A MINIMUM OF 3 FEET BEHIND THE BACK OF THE WALL FACE. EQUIPMENT WITH WHEEL LOADS IN EXCESS OF 150 PSF LIVE LOAD SHALL NOT BE OPERATED WITHIN 10 FEET OF THE FACE OF THE RETAINING WALL DURING CONSTRUCTION ADJACENT TO THE WALL. CARE SHOULD BE TAKEN BY THE GENERAL CONTRACTOR TO ENSURE WATER RUNOFF IS DIRECTED AWAY FROM THE WALL STRUCTURE UNTIL FINAL GRADING AND SURFACE DRAINAGE COLLECTION SYSTEMS ARE COMPLETED.

BIOFILTRATION BASIN:

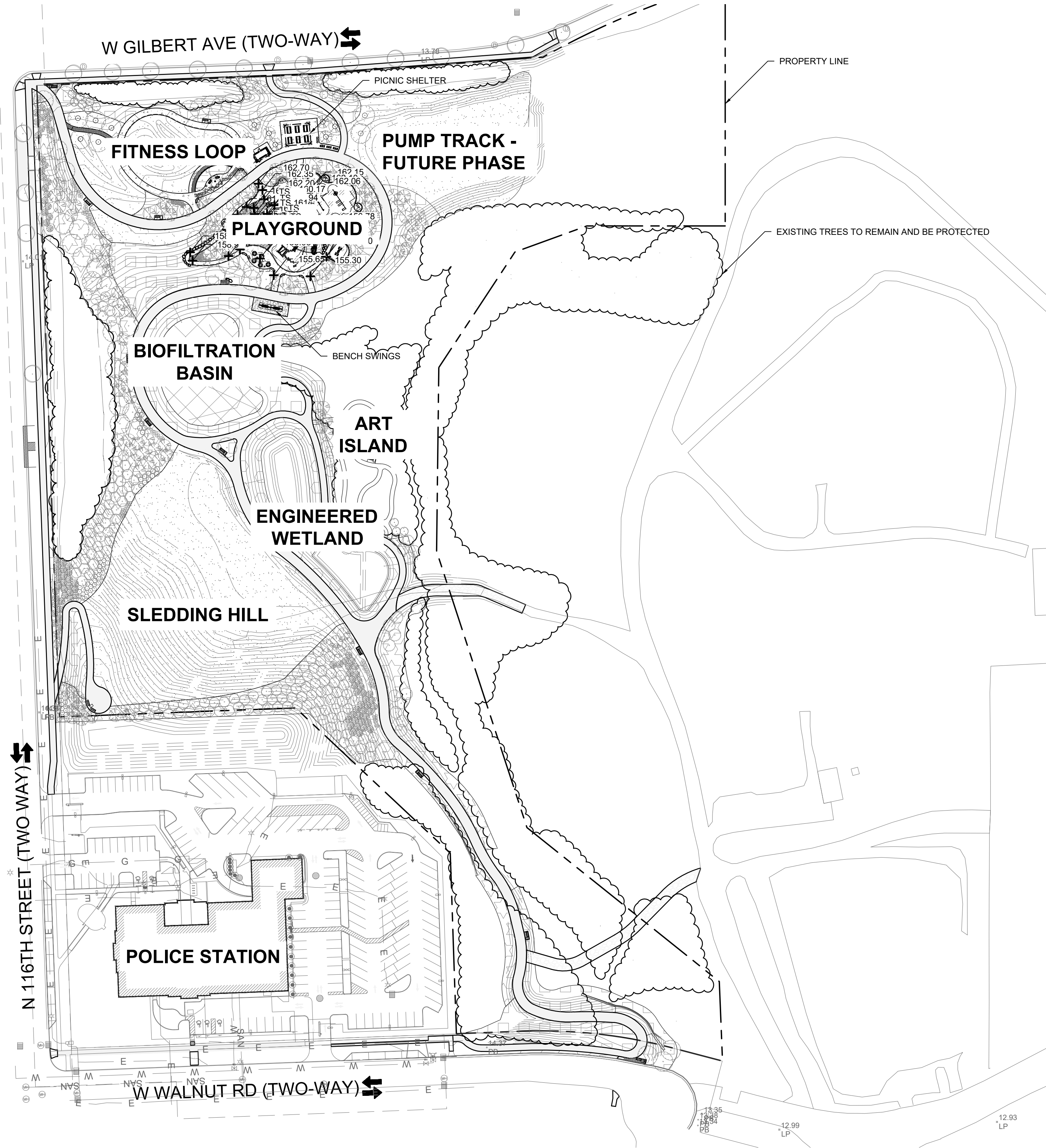
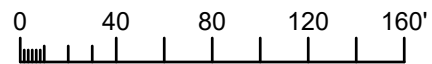
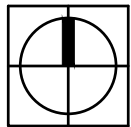
1. BIOFILTRATION BASIN SHALL BE CONSTRUCTED IN GENERAL ACCORDANCE WITH WDNr TECHNICAL STANDARD 1004: BIORETENTION FOR INFILTRATION AND THESE SPECIFICATIONS.
2. ENGINEERED SOIL MIX SHALL CONSIST OF A MIX OF 70 TO 85% SAND AND 15 TO 30% COMPOST BASED ON VOLUME. SAND SHALL MEET THE REQUIREMENTS FOR FINE AGGREGATE SAND SPECIFIED SECTION 501.2.5.3.4 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION OR MEET ASTM C33 (FINE AGGREGATE CONCRETE SAND).
3. PRIOR TO PLACEMENT IN THE BIOFILTRATION BASIN, THE ENGINEERED SOIL SHALL BE PREMIXED AND THE MOISTURE CONTENT SHALL BE LOW ENOUGH TO PREVENT CLUMPING AND COMPACTION DURING PLACEMENT.
4. THE ENGINEERED SOIL SHALL BE PLACED IN MULTIPLE LIFTS, EACH APPROXIMATELY 12 INCHES IN DEPTH.
5. ENGINEERED SOIL MIX SHALL BE FREE OF ROCKS, STUMPS, ROOTS, BRUSH OR OTHER MATERIAL OVER ONE INCH IN DIAMETER. NO OTHER MATERIALS SHALL BE MIXED WITH THEE PLANTING SOIL THAT MAY BE HARMFUL TO PLANT GROWTH OR BE A HINDRANCE TO PLANTING OR MAINTENANCE.
6. ENGINEERED SOIL AND GRAVEL SHALL BE IN ACCORDANCE WITH THE LATEST WDNr TECHNICAL STANDARD 1004.
7. PEA GRAVEL SHALL BE GRADED SUCH THAT MINIMUM PARTICLE SIZE IS LARGE ENOUGH TO PREVENT FALLING THROUGH PERFORATIONS OF THE UNDERDRAIN PIPE.
8. BIOFILTRATION BASIN DRAIN PIPE: 6-INCH CORRUGATED HDPE PIPE MEETING PERFORATION REQUIREMENTS OF AASHTO M278 HIGHWAY UNDERDRAIN SPECIFICATIONS WITH 3/8" PERFORATIONS ON 6" CENTERS WITH 4 HOLES PER ROW.
9. BEEHIVE INLET: NEENAH R-256I, OR EQUAL
10. RISER STRUCTURE: 48" DIAMETER PRECAST CATCH BASIN STRUCTURE WITH 24" TOP OPENING TO ACCOMMODATE BEEHIVE INLET. IN GENERAL ACCORDANCE WITH FILE NO. 26 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN.
11. GRAVEL STORAGE LAYER (IF INDICATED ON PLANS): COURSE AGGREGATE #2 IN ACCORDANCE WITH SECTION 501.2.5.4.4 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
12. FILTER FABRIC: GEOTEXTILE FABRIC IN ACCORDANCE WITH SECTION 645.2.2.4 OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION
13. EXCAVATE TO GRADES AS INDICATED ON PLANS.
14. CONSTRUCT TEMPORARY DIVERSION SWALES OR PROVIDE OTHER MEANS AS NECESSARY TO PREVENT CONSTRUCTION SITE RUNOFF FROM DISTURBED AREAS, AND RUNOFF FROM PERVIOUS AREAS WHICH HAVE NOT YET BEEN STABILIZED, FROM ENTERING THE BIORETENTION AREA.
15. CONSTRUCTION SHALL BE SUSPENDED DURING PERIODS OF RAINFALL OR SNOWMELT. CONSTRUCTION SHALL REMAIN SUSPENDED IF PONDED WATER IS PRESENT OR IF RESIDUAL SOIL MOISTURE CONTRIBUTES SIGNIFICANTLY TO THE POTENTIAL FOR SOIL SMEARING, CLUMPING OR OTHER FORMS OF COMPACTION.
16. COMPACTION AND SMEARING OF THE ENGINEERED SOIL AND TOP SOIL BENEATH THE FLOORS, IN THE SOIL PLANTING BED, AND THE SIDE SLOPES OF THE BASIN, AND COMPACTION OF THE ENGINEERED SOILS IN THE BASIN SHALL BE MINIMIZED. DURING SITE DEVELOPMENT, THE AREA DEDICATED TO THE BIOFILTRATION BASIN SHALL BE CORDONED OFF TO PREVENT ACCESS BY HEAVY EQUIPMENT. ACCEPTABLE EQUIPMENT FOR CONSTRUCTING THE BIOFILTRATION BASIN INCLUDES EXCAVATION HOES, LIGHT EQUIPMENT WITH TURF TYPE TIRES, MARSH EQUIPMENT OR WIDE-TRACK LOADERS.
17. IF COMPACTION OCCURS AT THE BASE OF THE BIOFILTRATION BASIN, THE SOIL SHALL BE REFRRACTURED TO A DEPTH OF AT LEAST 12 INCHES. IF SMEARING OCCURS, THE SMEARED AREAS OF THE INTERFACE SHALL BE CORRECTED BY RAKING OR ROTO-TILLING.
18. STEPS MAY BE TAKEN TO INDUCE MILD SETTLLING OF THE ENGINEERED SOIL BED AS NEEDED TO PREPARE A STABLE PLANTING MEDIUM AND TO STABILIZE THE PONDING DEPTH. VIBRATING PLATE-STYLE COMPACTORS SHALL NOT BE UTILIZED.
19. ANY SEDIMENT ACCUMULATED IN THE BASIN DUE TO CONSTRUCTION ACTIVITIES SHOULD BE REMOVED AND THE ENGINEERED SOIL SHALL BE DEEP TILLED PRIOR TO PLANTING.
20. IMPERVIOUS LINER SHALL BE 45 MIL FIRESTONE EPDM (GSI PRODUCTS), OR 30 MIL PVC (GSI PRODUCTS), OR EQUAL.

POROUS PAVEMENT:

1. THE COMPOSITION, PLACING AND CONSTRUCTION OF ASPHALTIC PAVEMENTS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 450, 455, 460, 465, AND 475 OF THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION (WISDOT STANDARD SPECIFICATIONS) AND WISCONSIN ASPHALT PAVEMENT ASSOCIATION (WAPA) POROUS ASPHALT PAVEMENTS TECHNICAL BULLETIN.
2. CONTRACTOR SHALL PROVIDE PRODUCT DATA FOR EACH TYPE OF PRODUCT INDICATED - INCLUDE TECHNICAL DATA AND TESTED PHYSICAL AND PERFORMANCE PROPERTIES; JOB-MIX DESIGNS: CERTIFICATION THAT MIX MEETS OR EXCEEDS WISDOT STANDARD SPECIFICATIONS; AND MATERIAL CERTIFICATES CERTIFYING COMPLIANCE WITH WISDOT STANDARD SPECIFICATIONS.
3. MANUFACTURER QUALIFICATIONS: MANUFACTURER SHALL BE REGISTERED WITH AND APPROVED BY THE DOT OF THE STATE IN WHICH PROJECT IS LOCATED.
4. ENVIRONMENTAL LIMITATIONS: DO NOT APPLY ASPHALT MATERIALS IF BASE COURSE IS WET OR EXCESSIVELY DAMP OR IF THE FOLLOWING CONDITIONS ARE NOT MET: APPLY TACK COAT WHEN AMBIENT TEMPERATURE IS ABOVE 50 DEGREES FAHRENHEIT AND WHEN TEMPERATURE HAS NOT BEEN BELOW 35 DEGREES FAHRENHEIT FOR 12 HOURS IMMEDIATELY PRIOR TO APPLICATION; PLACE ASPHALTIC CONCRETE SURFACE COURSE WHEN TEMPERATURE IS ABOVE 40 DEGREES FAHRENHEIT; BASE COURSE MAY BE PLACED WHEN AIR TEMPERATURE IS ABOVE 30 DEGREES FAHRENHEIT AND RISING. PROCEED WITH PAVEMENT MARKING ONLY ON CLEAN, DRY SURFACES. DO NOT APPLY BELOW THE MINIMUM PAVEMENT TEMPERATURE AS RECOMMENDED BY THE MANUFACTURER.
5. AGGREGATES SHALL BE IN ACCORDANCE WITH SECTION 460.2.2 OF THE WISDOT STANDARD SPECIFICATIONS AS MODIFIED BY THE WAPA POROUS ASPHALT PAVEMENTS TECHNICAL BULLETIN.
6. ASPHALT MATERIALS SHALL BE IN ACCORDANCE WITH CHAPTER 455 OF THE WISDOT STANDARD SPECIFICATIONS AS MODIFIED BY THE WAPA POROUS ASPHALT PAVEMENTS TECHNICAL BULLETIN.
7. PAVEMENT MARKING PAINT: PROVIDE PAINT FROM THE WISCONSIN DEPARTMENT OF TRANSPORTATION'S APPROVED PRODUCTS LIST. COLOR SHALL BE WHITE UNLESS INDICATED OTHERWISE ON PLANS.
8. POROUS ASPHALT: POROUS ASPHALT MIXES SHALL BE COMPATIBLE WITH WISDOT-APPROVED WARM-MIX ASPHALT TECHNOLOGIES. ASPHALTIC BINDER SHALL BE GRADE 28 IN ACCORDANCE WITH WAPA POROUS ASPHALTIC TECHNICAL BULLETIN.
9. AGGREGATE STORAGE RESERVOIR: USE A WASHED OR OPEN-GRADED BASE CONSISTING OF CRUSHED STONE OR CRUSHED GRAVEL WITH NO GREATER THAN 50% PASSING THE NO. 200 SIEVE. PROVIDE A MINIMUM POROSITY OF 30% PER ASTM C29 STANDARD TEST METHOD FOR BULK DENSITY AND VOIDS IN AGGREGATE. COMPLY WITH SOUNDNESS, WEAR, AND FRACTURE REQUIREMENTS LISTED IN WISCONSIN DOT STANDARD SPECIFICATION SECTION 301.2.4.5 - AGGREGATE BASE PHYSICAL PROPERTIES.
10. PAVEMENT PLACEMENT GENERAL: ASPHALT CONCRETE PAVING EQUIPMENT, WEATHER LIMITATIONS, JOB-MIX FORMULA, MIXING, CONSTRUCTION METHODS, COMPACTION, FINISHING, TOLERANCE AND PROTECTION SHALL CONFORM TO THE REQUIREMENTS OF THE APPROPRIATE SECTIONS OF THE WISDOT STANDARD SPECIFICATIONS AS MODIFIED BY THE WAPA POROUS ASPHALT PAVEMENTS TECHNICAL BULLETIN.
11. PREPARE AND PROOFROLL SUBGRADES AND AGGREGATE BASE COURSE AS OUTLINED IN EARTH MOVING SPECIFICATIONS PRIOR TO PLACEMENT OF ASPHALT PAVEMENTS. THE SLOPE OF THE SUBGRADE SHALL BE AS FLAT AS POSSIBLE BUT NO GREATER THAN 2%.
12. SWEEP LOOSE GRANULAR PARTICLES FROM SURFACE OF AGGREGATE BASE COURSE PRIOR TO PAVEMENT PLACEMENT. DO NOT DISLODGE OR DISTURB AGGREGATE EMBEDDED IN COMPACTED SURFACE OF BASE COURSE.
13. SPREAD AND FINISH ASPHALTIC MIXTURE IN ACCORDANCE WITH SECTION 450.3.2.5 OF THE WISDOT STANDARD SPECIFICATIONS AS MODIFIED BY THE WAPA POROUS PAVEMENTS TECHNICAL BULLETIN. PAVEMENT THICKNESSES SHALL BE AS INDICATED ON THE PLANS.
14. PROMPTLY CORRECT SURFACE IRREGULARITIES IN PAVING COURSE BEHIND PAVER. USE SUITABLE HAND TOOLS TO REMOVE EXCESS MATERIAL FORMING HIGH SPOTS. FILL DEPRESSIONS WITH POROUS ASPHALT TO PREVENT SEGREGATION OF MIX; USE SUITABLE HAND TOOLS TO SMOOTH SURFACE.
15. COMPACT ASPHALTIC PAVEMENT IN ACCORDANCE WITH SECTION 450.3.2.6 OF THE WISDOT STANDARD SPECIFICATIONS AS MODIFIED BY THE WAPA POROUS ASPHALT PAVEMENTS TECHNICAL BULLETIN. POROUS ASPHALT SHOULD BE COMPACTED WITH TWO TO FOUR PASSES OF A 10-TON ROLLER.
16. PROTECTION: AFTER FINAL ROLLING, DO NOT PERMIT VEHICULAR TRAFFIC ON PAVEMENT FOR AT LEAST 24 HOURS. ERECT BARRICADES TO PROTECT PAVING FROM TRAFFIC UNTIL MIXTURE HAS COOLED ENOUGH NOT TO BECOME MARKED.
17. THICKNESS TOLERANCE: COMPACT EACH COURSE TO PRODUCE THE THICKNESS INDICATED WITHIN PLUS/MINUS ¼ INCH FOR BINDER COURSE AND PLUS ¼ INCH FOR SURFACE COURSE, NO MINUS.
18. SURFACE SMOOTHNESS TOLERANCE: COMPACT EACH COURSE TO PRODUCE A SURFACE SMOOTHNESS WITHIN THE FOLLOWING TOLERANCES AS DETERMINED BY USING A 10-FOOT STRAIGHTEDGE APPLIED TRANSVERSELY OR LONGITUDINALLY TO PAVED AREAS: BINDER COURSE: ¼ INCH; SURFACE COURSE: 1/8 INCH. REMOVE AND REPLACE ALL HUMPS OR DEPRESSIONS EXCEEDING THE SPECIFIED TOLERANCES.
19. DO NOT APPLY PAVEMENT-MARKING PAINT UNTIL LAYOUT, COLORS, AND PLACEMENT HAVE BEEN VERIFIED WITH ENGINEER.
20. APPLY MARKINGS TO A DRY SURFACE FREE FROM FROST, REMOVE DUST, DIRT, OIL, GREASE, GRAVEL, DEBRIS OR OTHER MATERIAL THAT MAY PREVENT BONDING TO THE PAVEMENT.
21. APPLY PAINT AS THE MANUFACTURER SPECIFIES WITH MECHANICAL EQUIPMENT TO PRODUCE PAVEMENT MARKINGS, OF DIMENSIONS INDICATED, WITH UNIFORM, STRAIGHT EDGES. APPLY AT MANUFACTURER'S RECOMMENDED RATES AT A MINIMUM RATE OF 17.6 GALLONS/MILE FOR A CONTINUOUS 4" LINE.
22. TESTING AGENCY: CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS AND TO PREPARE TEST REPORTS.

1

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



LEGEND



	PROPERTY LINE		BENCH, TYPE 2
	RAISED CONCRETE CURB		BENCH, TYPE 3
	FLUSH CONCRETE CURB		GAME TABLE
	EXPANSION JOINT		BIKE RACK
	CONTROL JOINT		HOT COAL RECEPTACLE
	THICKENED EDGE CONCRETE PAVEMENT		ADA CLEARANCE
	STABILIZED AGGREGATE PAVING	NOTE: SEE SCHEDULES TO DETERMINE FURNISH AND INSTALLATION RESPONSIBILITIES	
	CONCRETE PAVEMENT		
	PLAY TURF SURFACING W/ AGGREGATE SUBBASE		
	PLAY TURF SURFACING W/ CONCRETE SUBBASE		
	ENGINEERED WOOD FIBER		
	BOULDERS		
	STONE STEPPERS		
	LAWN SEED MIX		
	PERENNIALS AND ORNAMENTAL GRASSES		
	LOW PRAIRIE SEED MIX		
	BASIN SEED MIX		
	EMERGENT SLOPE SEED MIX		
	NO MOW LAWN SEED MIX		
	SHADE TREE		
	ORNAMENTAL TREE		
	EVERGREEN TREE		
	SHRUBS		
	EXISTING TREES TO REMAIN AND BE PROTECTED		
	HANDRAIL		
	WOODEN PLATFORM		
	TRASH RECEPTACLE		
	RECYCLING RECEPTACLE		
	BENCH SWINGS		
	PICNIC TABLE, TYPE 1		
	PICNIC TABLE, TYPE 2		
	PICNIC TABLE, TYPE 3		
	BENCH, TYPE 1		

FILE NAME:

PLOT DATE:

PLOTTED BY:

SHEET:

CONTRACT:		OVERALL SITE PLAN (FOR REFERENCE ONLY)	1700 N 116TH STREET WAUWATOSA, WI 53226			CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION	DATE	DESCRIPTION
FILE NO:								
DRAWN BY:								
CHECKED BY:								
SCALE:								
L002								

CONCRETE AND FORMWORK NOTES:

- ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING (INCLUDING BUT NOT LIMITED TO) AMERICAN CONCRETE INSTITUTE PUBLICATIONS:
 - ACI 301 - SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
 - ACI 304 - GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE
 - ACI 311 - GUIDE FOR CONCRETE INSPECTION
 - ACI 315 - DETAILS AND DETAILING OF CONCRETE REINFORCEMENT
 - ACI 318 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY
 - ACI 347 - GUIDE TO FORMWORK FOR CONCRETE
- CONCRETE SHALL BE AS FOLLOWS:
 - CONCRETE F'C PSI @ 28 DAYS
 - FOUNDATIONS AND FOOTINGS NORMAL WEIGHT (145 PCF) F'C = 4000 PSI
 - GRADE BEAMS NORMAL WEIGHT (145 PCF) F'C = 4000 PSI
 - EXTERIOR SLAB ON GRADE NORMAL WEIGHT (145 PCF) F'C = 4000 PSI
 - PADS FOR MEP EQUIP. NORMAL WEIGHT (145 PCF) F'C = 4000 PSI
 - ELEVATED SLABS, BEAMS NORMAL WEIGHT (145 PCF) F'C = 8000 PSI
- ALL EXTERIOR EXPOSED CONCRETE SHALL BE AIR- ENTRAINED TO GIVE THE CONCRETE AN AIR CONTENT OF 6 +/- 1 1/2% BY VOLUME. WATER REDUCING PLASTICIZING ADMIXTURES MAY BE USED, PENDING APPROVAL OF THE AOR, SOR AND LA.
- NO CALCIUM CHLORIDE OR CHLORIDE ION PRODUCING ADD MIXTURE SHALL BE USED IN ANY CONCRETE.
- FORMWORK FOR ALL CONCRETE WHICH WILL BE EXPOSED IN COMPLETED STRUCTURES SHALL BE CONSTRUCTED FROM A SUITABLE PLASTIC SURFACED PLYWOOD WHICH WILL PRODUCE AN ACCEPTABLY SMOOTH SURFACE. ALSO SEE THE SPECIFICATIONS.
- THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS SHOWING THE LOCATIONS OF ALL FORM TIES, CONSTRUCTION JOINTS, CURBS AND SLAB DEPRESSIONS. IF ANY, AND DESCRIBE THE CONCRETE PLACEMENT SEQUENCING. ALL CURBS SHALL BE REINFORCED WITH AT LEAST (1) - #4 CONTINUOUS AND #3 AT 16" O/C DOWELS TO THE STRUCTURE BELOW. UNO.
- ALL CONSTRUCTION JOINTS SHALL BE WIRE BRUSHED AND CLEANED IMMEDIATELY PRIOR TO PLACING NEW CONCRETE. ALLOW 24 HOURS MINIMUM TO ELAPSE BETWEEN POURS
- SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF ALL INTERIOR FLOOR FINISHES, FLOOR DEPRESSIONS AND CURBS AND FOR ALL WATERPROOFING/DAMP-PROOFING DETAILS. SEE MEP DRAWINGS FOR ADDITIONAL WALL AND/OR SLAB OPENINGS, AND EQUIPMENT PADS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- SLOPE CONCRETE SLABS, WHERE REQUIRED, DRAINS SHOWN ON THE ARCHITECTURAL CIVIL AND/OR MEP.
- CONCRETE PROTECTION FOR REINFORCING BARS SHALL BE AS FOLLOWS:
 - FOOTINGS 1" CLEAR, SIDES AND BOTTOM
 - WALLS 2" CLEAR, OUTSIDE FACE, 1 1/2" CLEAR, INSIDE FACE
 - SLABS 1" CLEAR
 - PIERS 2" CLEAR TO TIES

DIMENSIONAL LUMBER:

- ALL WOOD CONSTRUCTION SHALL CONFORM TO THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION," LATEST EDITION, BY THE NATIONAL FOREST PRODUCT ASSOCIATION.
- STRUCTURAL LUMBER SHALL HAVE THE FOLLOWING MINIMUM IN GRADE UNIFORM STRESSES:
 - GRADE: STRUCTURAL SELECT, REFER TO SPECIFICATIONS FOR SPECIES
 - FB = 1200 PSI
 - FB = 160 PSI
 - FC = 1,200 PSI
 - JFC = 615 PSI
 - FT = 650 PSI
 - E = 1,400,000 PSI
- ALL LUMBER SHALL HAVE AN AVERAGE MOISTURE CONTENT OF NOT MORE THAN 19%.
- BOLT HEADS & NUTS BEARING ON WOOD SHALL BE PROVIDED WITH STANDARD CUT WASHERS.
- ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED UNO.
- MINIMUM NAILED CONNECTIONS FOR WOOD FRAMING MEMBERS SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE LATEST VERSION OF THE APPLICABLE JURISDICTIONAL BUILDING CODES.
- ALL STRUCTURAL WOOD EXPOSED TO THE ELEMENTS SHALL BE PRESSURE TREATED.
- ALL CONNECTIONS THROUGH PRESSURE TREATED WOOD SHALL BE MADE WITH CORROSION RESISTANT FASTENERS.

PLANTING PROTECTION AND REMOVAL NOTES:

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

MOCKUP NOTES:

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

LANDSCAPE DRAINAGE NOTES:

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

STRUCTURAL STEEL NOTES:

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

HARDSCAPE NOTES:

- PRIOR TO THE COMMENCEMENT OF HARDSCAPE SCOPE OF WORK, CONVENE A PRE-CONSTRUCTION CONFERENCE WITH AOR, LA, CONTRACTOR AND ANY ASSOCIATED AND RELEVANT DESIGN TEAM MEMBERS, SUBCONTRACTORS AND AHJ TO REVIEW WORK SCOPE, SCHEDULE AND TO REVIEW Q&A BY DESIGN TEAM, AHJ AND CONTRACTORS. CONTRACTOR TO PROVIDE MINIMUM 5 BUSINESS DAY NOTICE FOR ALL MEETINGS.
- CONFIRM ALL HARDSCAPE QUANTITIES AND DIMENSIONS.
- STAKE AND PAINT OUT ALL STRUCTURE EXTENTS AND FOOTING LOCATIONS, WALL FACES/BACKS, STAIR LOCATIONS, CURB FACES/BACKS AND PAVING EDGES PER PLANS FOR AOR AND LA REVIEW AND APPROVAL PRIOR TO EXCAVATION AND INSTALLATION. ADJUST ANY LAYOUT MODIFICATIONS BY AOR AND LA AT NO ADDITIONAL COST TO THE OWNER. ALL SURVEY AND LAYOUT COSTS BY CONTRACTOR.
- ESTABLISH APPROVED LAYOUT LINES AND GRADES AND MAINTAIN THROUGH CONSTRUCTION FOR VERIFICATION BY AOR AND LA. ALL LINES TO BE STRAIGHT AND TRUE. ALL CURVES SHALL BE SMOOTH AND NON-FACETED WITH BOTH IN ACCORDANCE WITH THE PLANS AND APPROVED FIELD LAYOUT BY AOR AND LA.
- FOR PRECISION OF LAYOUT REQUIREMENTS SEE SPECS. ALL EDGES OF HARDSCAPE ELEMENTS TO BE PAINTED AND MAINTAINED FOR AOR AND LA REVIEW AND APPROVAL PRIOR TO FORMING. ALL FORMING AND REINFORCEMENT TO BE REVIEWED AND APPROVED BY AOR AND LA PRIOR TO POURING.
- MATCH LINE AND GRADE OF PAVEMENT, LAWN AND PLANTING AREAS TO EXISTING ADJACENT AREAS.
- TRANSITION SMOOTHLY BETWEEN DIFFERENT SLOPES WITHOUT ABRUPT CHANGES IN SLOPE. REFER TO GRADING PLAN.
- GRADE ALL HARDSCAPE SURFACES TO A MAXIMUM 5% SLOPE WITH A MAXIMUM GROSS SLOPE OF 2% AND A MINIMUM SLOPE OF 1% SLOPE ALL PAVEMENT TO DRAIN.
- ADJUST UTILITY STRUCTURES TO MEET FINISH GRADE.
- LAYOUT CONTROL JOINTS AT A MAX 5' OC AND EXPANSION JOINTS AT A MAX 30' OC UNO. IF PAVEMENT IS ARCED, LAYOUT CONTROL JOINTS EQUALLY ALONG LENGTH OF ARCH AND PERPENDICULAR TO CENTERLINE OF ARC UNO.
- ALL CONTROL JOINTS AND EXPANSION JOINTS ARE PERPENDICULAR AND PARALLEL TO BUILDING FACADE UNO.
- CLEARLY MARK ALL VISIBLE SAW CUT CONTROL JOINTS PRIOR TO CUTTING FOR REVIEW AND APPROVAL BY AOR AND LA.
- ALL EXPOSED VERTICAL CONCRETE EDGES TO BE CHAMFERED 1/2", 45 UNO.
- REFER TO SPECIFICATIONS FOR PAVEMENT REPAIR AND RESTORATION CRITERIA.
- SET BOULDERS OR ANY OTHER VERTICAL ELEMENTS OR FEATURES PRIOR TO PLACING ADJACENT HARDSCAPES. PROVIDE EXPANSION JOINT BETWEEN VERTICAL ELEMENTS AND ADJACENT HORIZONTAL SURFACES. COORDINATE WITH AOR AND LA IN FIELD PRIOR TO FINAL PLACEMENT OF BOULDERS.
- COORDINATE REQUIREMENTS OF FOUNDATIONS FOR UTILITIES, LIGHTING, IRRIGATION AND SITE FURNISHINGS SCOPE IN CONJUNCTION WITH ALL HARDSCAPE OPERATIONS.
- FOR HARDSCAPE DETAILS, SEE SHEET(S) L-502A, L-503B, L-503C, L-503D, L-503E.
- FOR HARDSCAPE SCHEDULE, SEE SHEET(S) L-603.

SOIL NOTES:

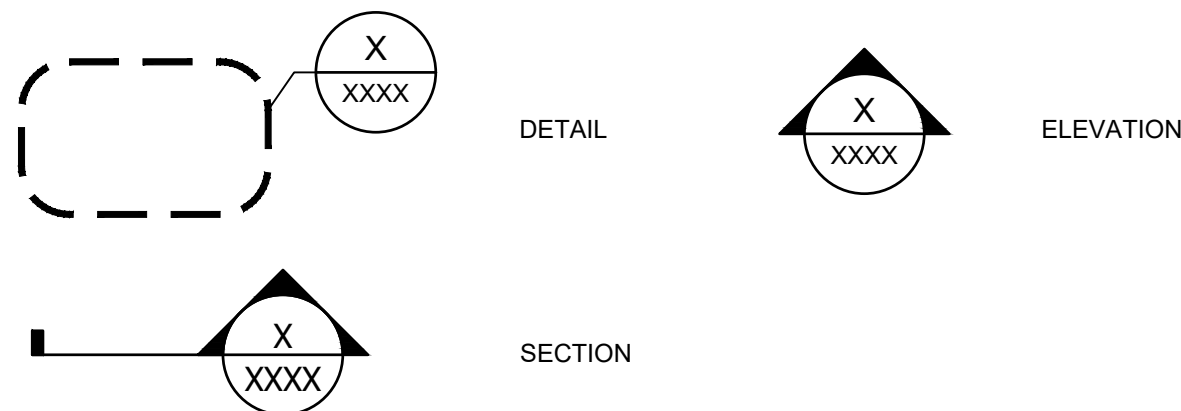
- CONFIRM ALL SOIL QUANTITIES AND DIMENSIONS.
- BASE SOIL MIX SHALL BE AS FOLLOWS:
 - PLANTING TOPSOIL, EITHER EXISTING ON SITE OR IMPORTED, TO BE USED FOR NEW PLANTING SOILS ACROSS THE ENTIRE SITE SHALL MEET THE FOLLOWING CRITERIA (AMEND AS NECESSARY TO MEET SPEC):
 - CLAY VALUE NOT TO EXCEED (IDEAL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

PLANTING NOTES:

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

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

SYMBOLS:



ABBREVIATIONS:

&	AND	MAX	MAXIMUM
@	AT	MIN	MINIMUM
AHJ	AUTHORITY HAVING JURISDICTION	NIC	NOT INCLUDING IN CONTRACT
AOR	ARCHITECT OF RECORD	NPT	NATIONAL PIPE THREAD
BIT	BITUMINOUS	NTS	NOT TO SCALE
BOC	BACK OF CURB	OC	ON CENTER
BSG	BELOW SURFACE GRADE	OFOI	OWNER FURNISHED, OWNER INSTALLED
CB	CATCH BASIN	PAV-1	PAVING - ONE
CCD	CITY OF CHICAGO DATUM	PAV-2	PAVING - TWO
C	CONTROL JOINT	PC	PORTLAND CEMENT
CJ	CENTER LINE	PCC	PORTLAND CEMENT CONCRETE
CIP	CAST IN PLACE	R	RADIUS
CONC	CONCRETE	ROW	RIGHT OF WAY
DIA.	DIAMETER	SIM	SIMILAR
EL	ELEVATION	SRO	SOIL REMEDIATION OBJECTIVE
EJ	EXPANSION JOINT	SS	STAINLESS STEEL
EMT	ELECTRICAL METALLIC TUBING	STR	STAIR
ESC	ESCALATOR	TYP	TYPICAL
EXIST	EXISTING	UNO	UNLESS NOTED OTHERWISE
G	GUTTER	UST	UNDERGROUND STORAGE TANK
H	HEIGHT	VCP	VITRIFIED CLAY PIPE
HP	HIGH POINT	VIF	VERIFY IN FIELD
INV	INVERT	W	WIDTH
INLET	DRAIN INLET	WP	WATERPROOF
LA	LANDSCAPE ARCHITECT	WT	WEIGHT
L	LENGTH	WWF	WELDED WIRE FRAME
LBS. #	POUNDS	W/	WITH
MH	MANHOLE		

SHEET INDEX

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L603	HARDSCAPE SCHEDULE
L604	SITE FURNISHINGS SCHEDULE
L606	PLANTING SCHEDULE
L1000	AREAS TO BE IRRIGATED

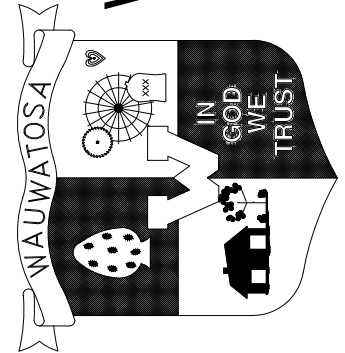
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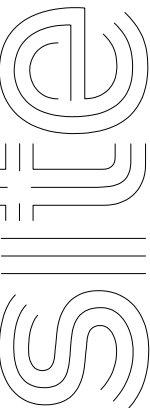
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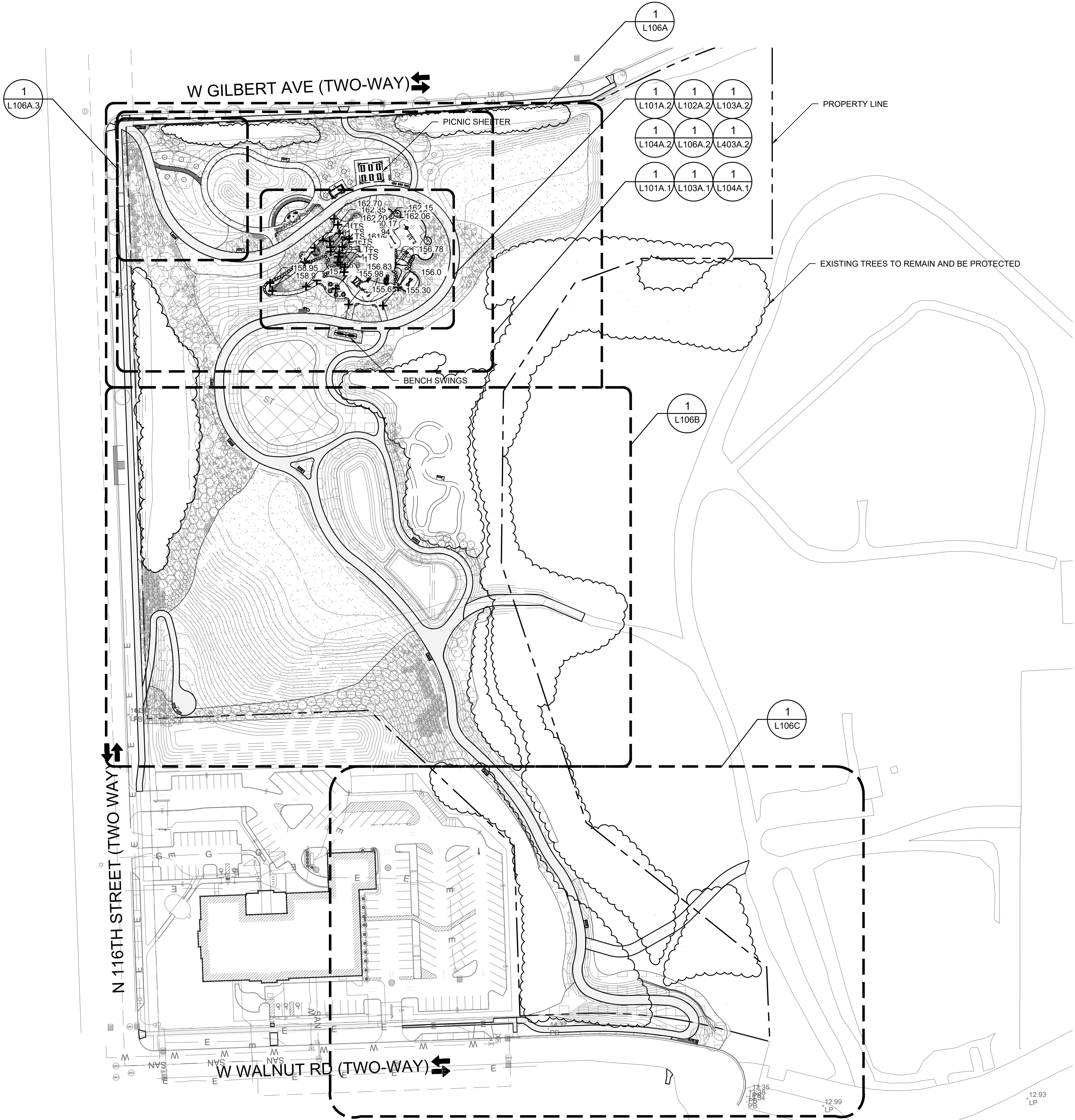
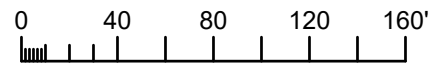
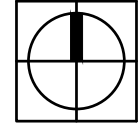
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1700 N 116TH STREET
WAUWATOSA, WI 53226

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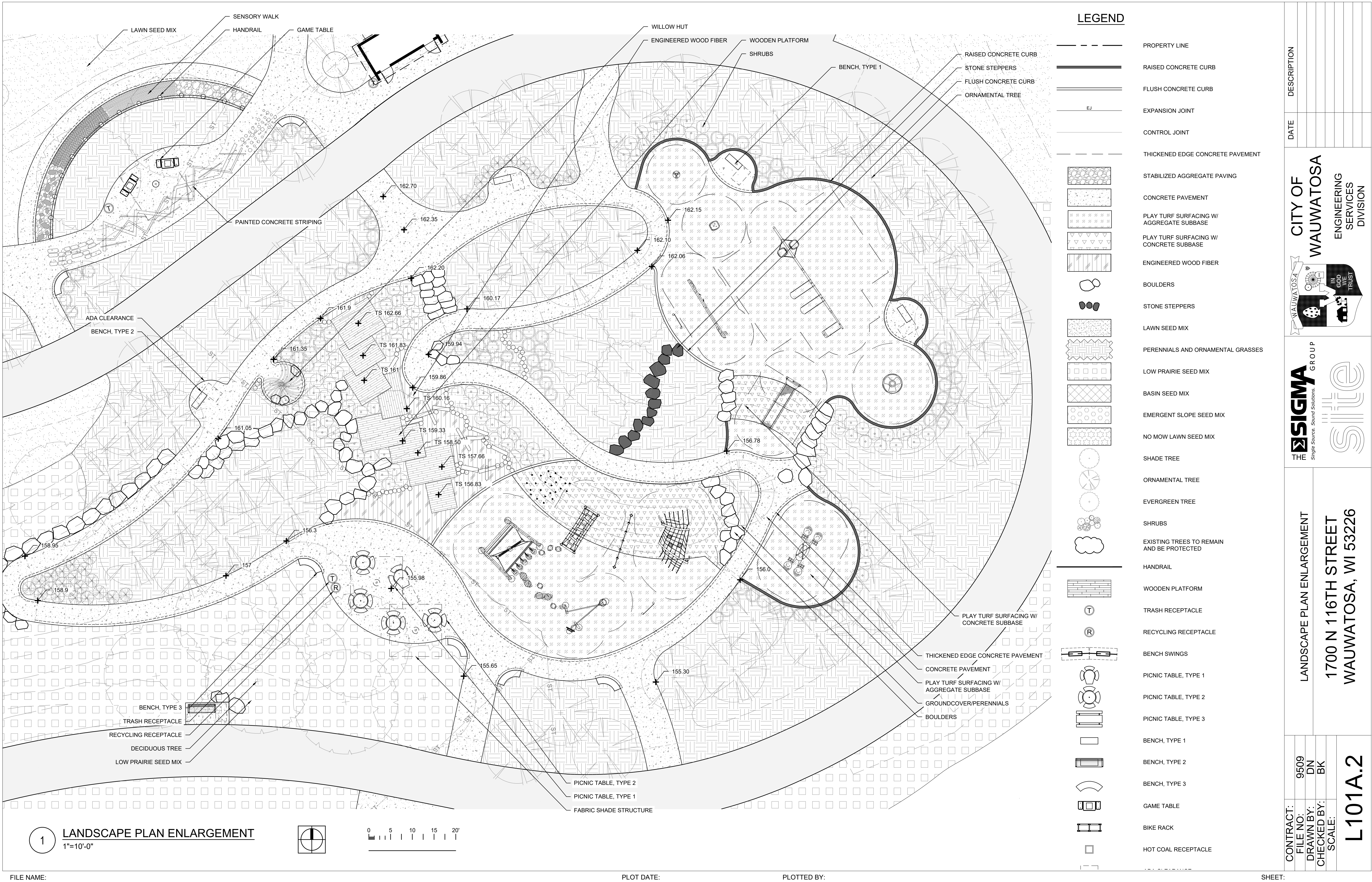
1 LANDSCAPE SITE PLAN
1"=80'-0"



LEGEND

	PROPERTY LINE		BENCH, TYPE 2
	RAISED CONCRETE CURB		BENCH, TYPE 3
	FLUSH CONCRETE CURB		GAME TABLE
	EXPANSION JOINT		BIKE RACK
	CONTROL JOINT		HOT COAL RECEPTACLE
	THICKENED EDGE CONCRETE PAVEMENT		ADA CLEARANCE
	STABILIZED AGGREGATE PAVING		
	CONCRETE PAVEMENT		
	PLAY TURF SURFACING W/ AGGREGATE SUBBASE		
	PLAY TURF SURFACING W/ CONCRETE SUBBASE		
	ENGINEERED WOOD FIBER		
	BOULDERS		
	STONE STEPPERS		
	LAWN SEED MIX		
	PERENNIALS AND ORNAMENTAL GRASSES		
	LOW PRAIRIE SEED MIX		
	BASIN SEED MIX		
	EMERGENT SLOPE SEED MIX		
	NO MOW LAWN SEED MIX		
	SHADE TREE		
	ORNAMENTAL TREE		
	EVERGREEN TREE		
	SHRUBS		
	EXISTING TREES TO REMAIN AND BE PROTECTED		
	HANDRAIL		
	WOODEN PLATFORM		
	TRASH RECEPTACLE		
	RECYCLING RECEPTACLE		
	BENCH SWINGS		
	PICNIC TABLE, TYPE 1		
	PICNIC TABLE, TYPE 2		
	PICNIC TABLE, TYPE 3		
	BENCH, TYPE 1		

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L101				



CONTRACT: 9509
FILE NO: DN
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SCALE: 1"=10'-0"

LANDSCAPE PLAN ENLARGEMENT
1700 N 116TH STREET
WAUWATOSA, WI 53226

L101A.2

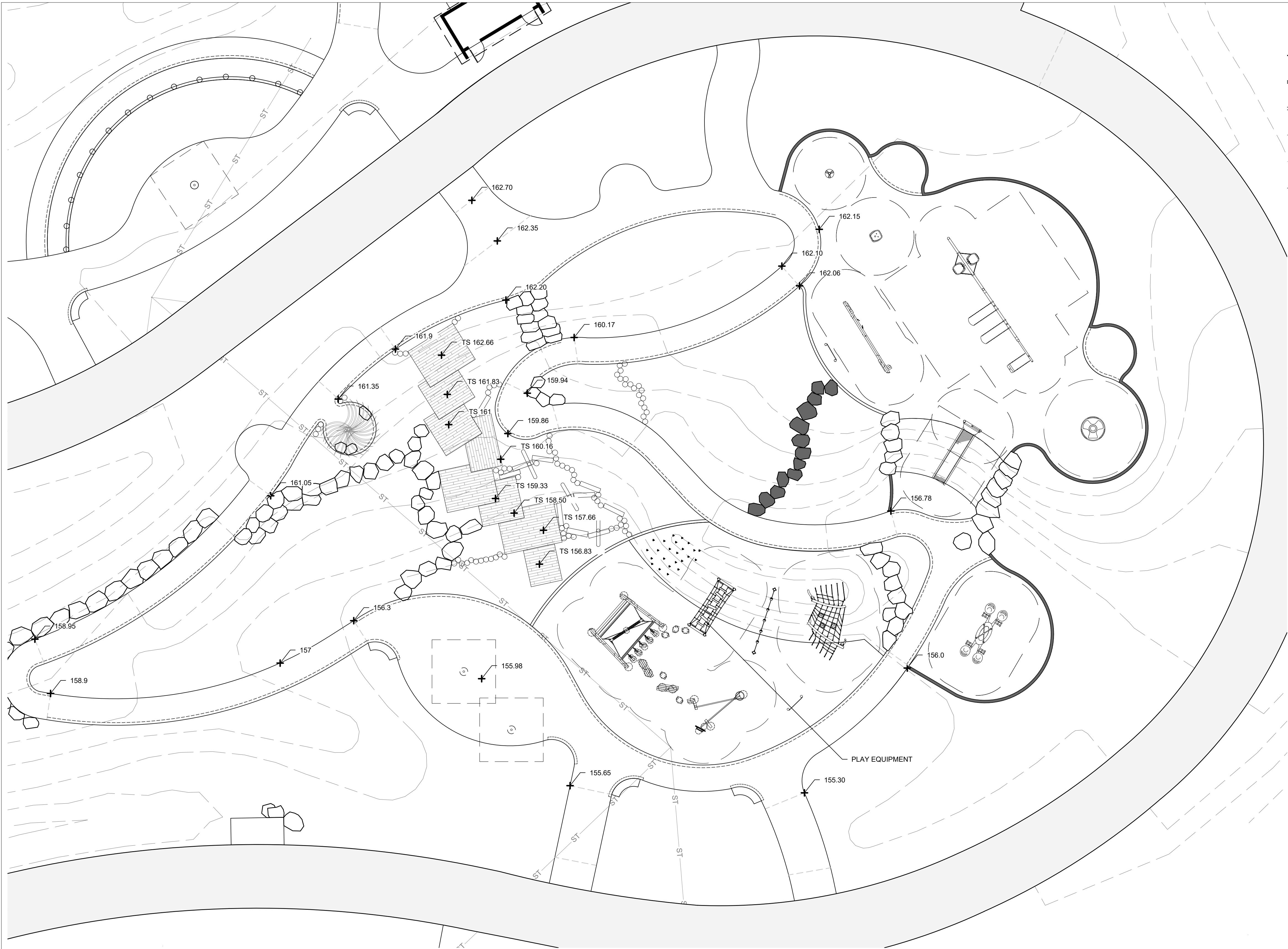
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WAUWATOSA, WI 53226

DATE

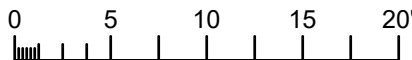
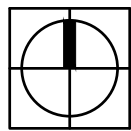
DESCRIPTION



LEGEND

- PROPERTY LINE
- RAISED CONCRETE CURB
- FLUSH CONCRETE CURB
- EJ
- EXPANSION JOINT
- CONTROL JOINT
- THICKENED EDGE CONCRETE PAVEMENT
- BOULDERS
- STONE STEPPERS
- WOODEN PLATFORM
- SPOT ELEVATIONS

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



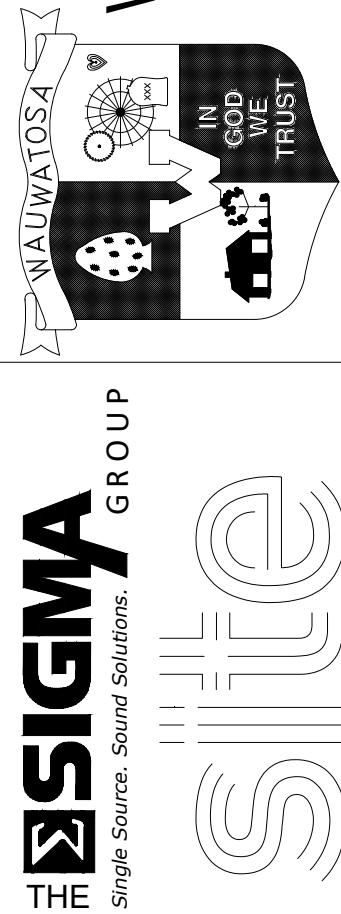
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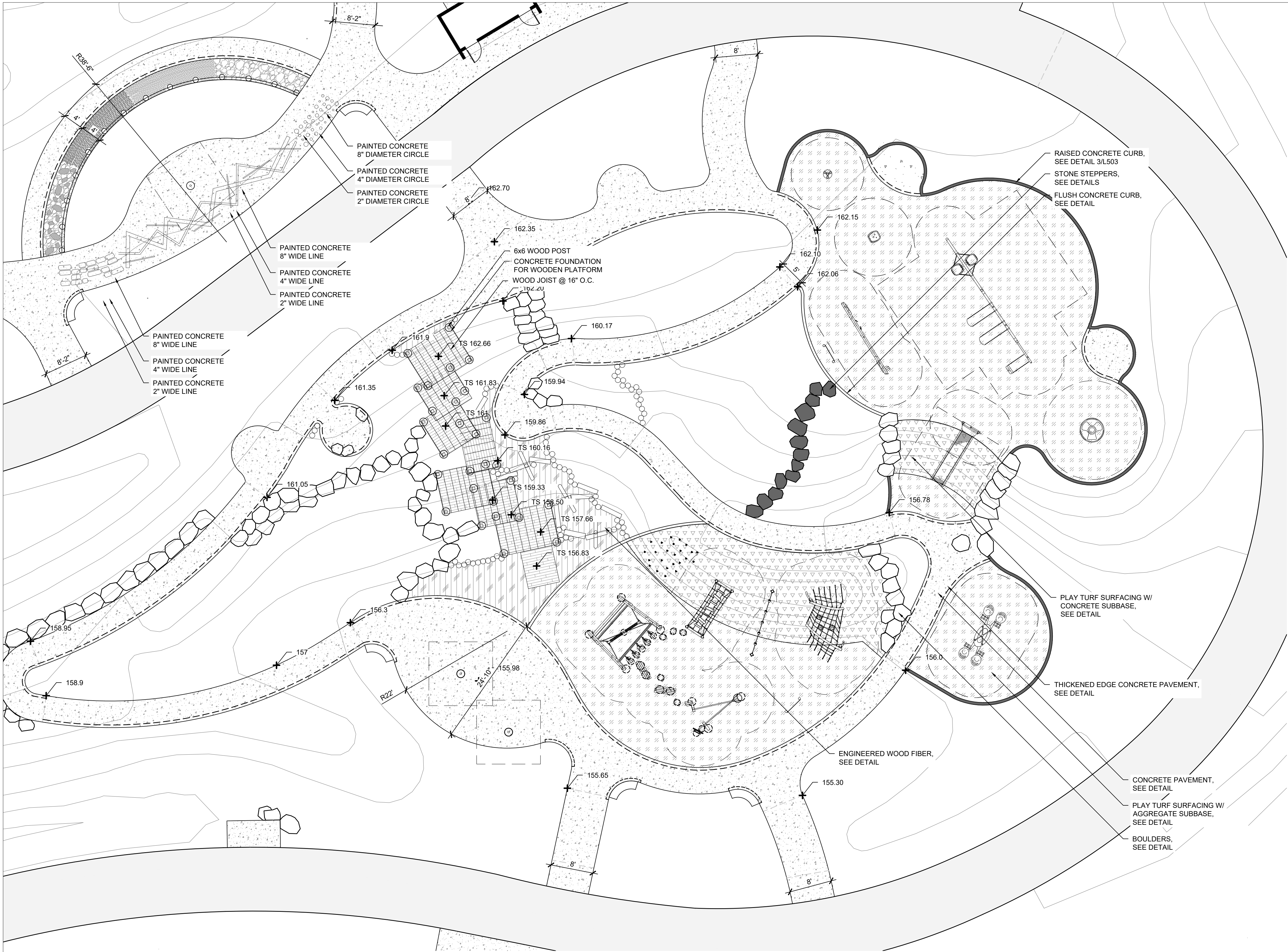
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PLAYGROUND GRADING PLAN ENLARGEMENT		1700 N 116TH STREET WAUWATOSA, WI 53226		
L102A.2				

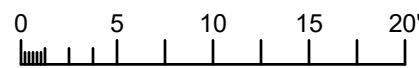
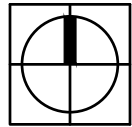




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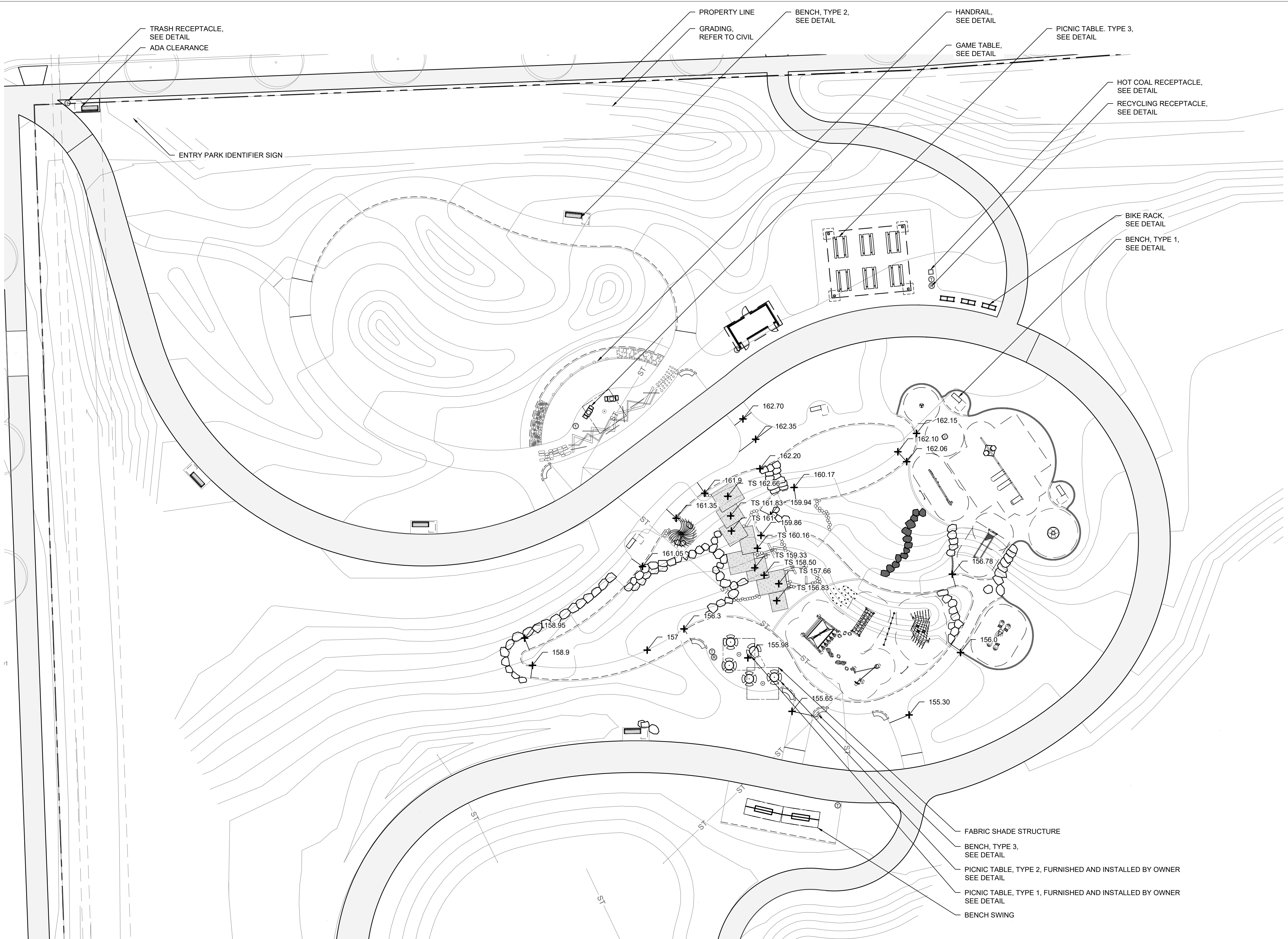
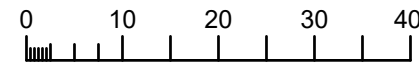
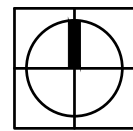
- PROPERTY LINE
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- ENGINEERED WOOD FIBER
- BOULDERS
- STONE STEPPERS

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



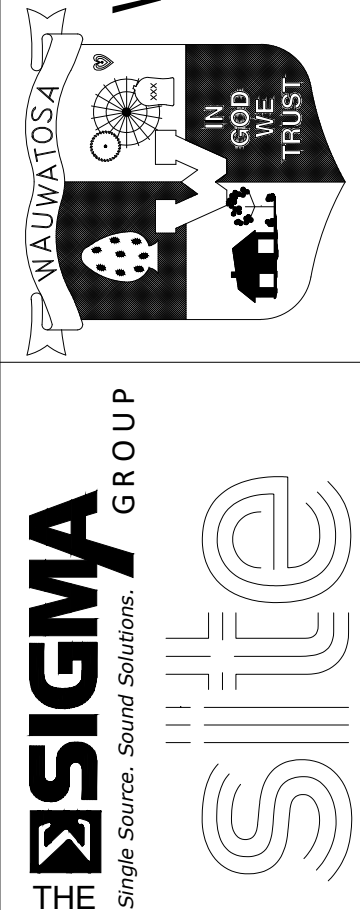
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HARDSCAPE PLAN ENLARGEMENT			
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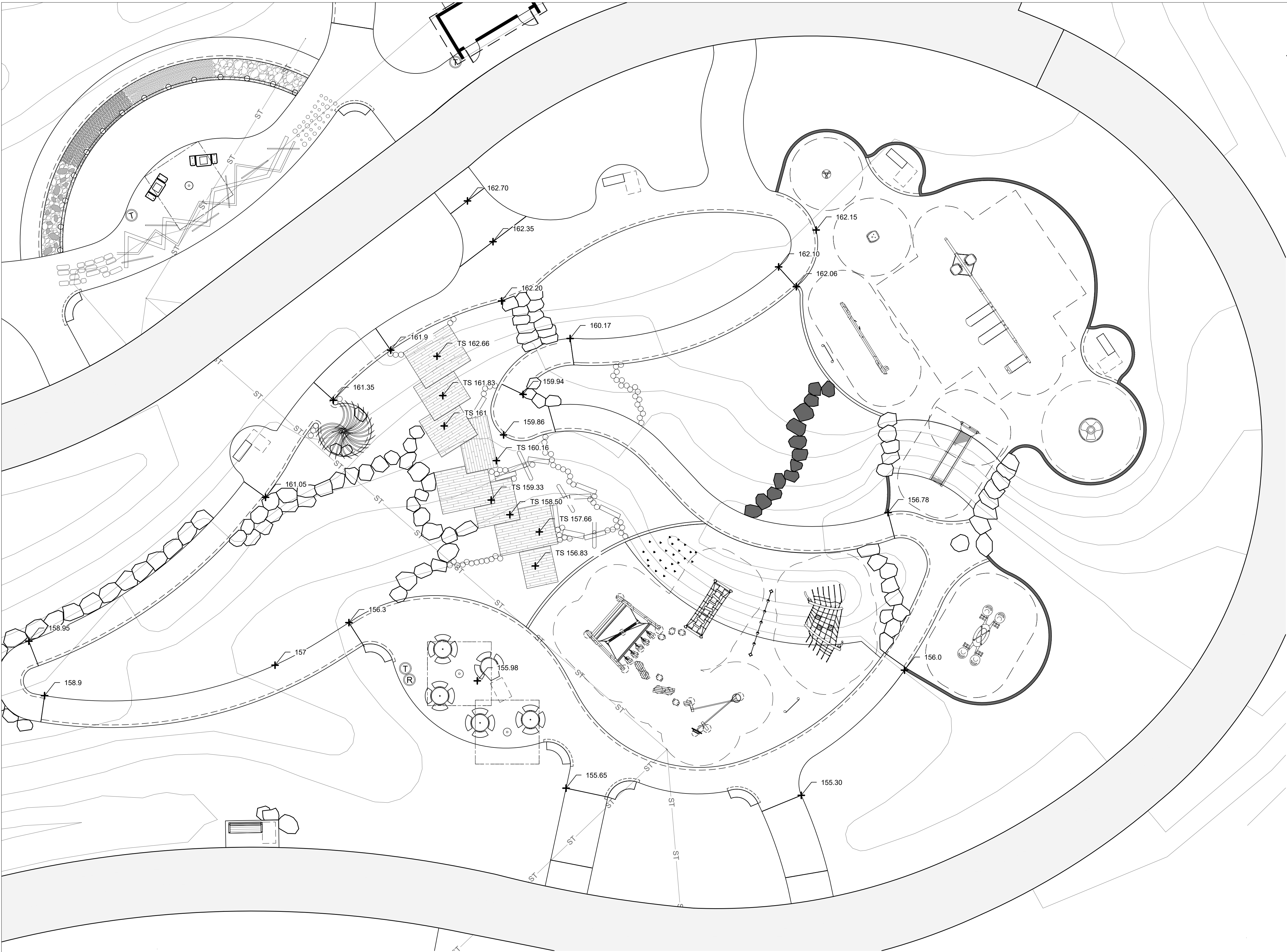
1 SITE FURNISHINGS PLAN ENLARGEMENT
1"= 20'-0"



- LEGEND**
- PROPERTY LINE
 - WOODEN PLATFORM
 - BENCH SWINGS
 - TRASH RECEPTACLE
 - RECYCLING RECEPTACLE
 - PICNIC TABLE, TYPE 1
 - PICNIC TABLE, TYPE 2
 - PICNIC TABLE, TYPE 3
 - BENCH, TYPE 1
 - BENCH, TYPE 2
 - BENCH, TYPE 3
 - GAME TABLE
 - BIKE RACK
 - HOT COAL RECEPTACLE
 - ADA CLEARANCE

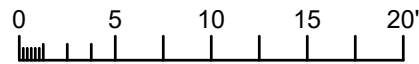
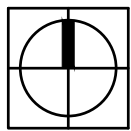
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SITE FURNISHINGS PLAN ENLARGEMENT			1700 N 116TH STREET WAUWATOSA, WI 53226	
L104A.1				





- LEGEND**
- PROPERTY LINE
 - WOODEN PLATFORM
 - BENCH SWINGS
 - TRASH RECEPTACLE
 - RECYCLING RECEPTACLE
 - PICNIC TABLE, TYPE 1
 - PICNIC TABLE, TYPE 2
 - PICNIC TABLE, TYPE 3
 - BENCH, TYPE 1
 - BENCH, TYPE 2
 - BENCH, TYPE 3
 - GAME TABLE
 - BIKE RACK
 - HOT COAL RECEPTACLE
 - ADA CLEARANCE

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

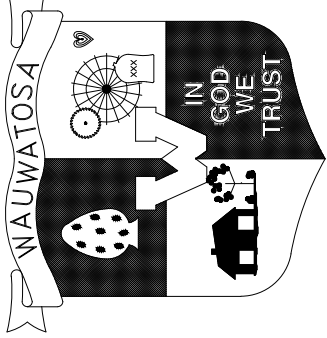



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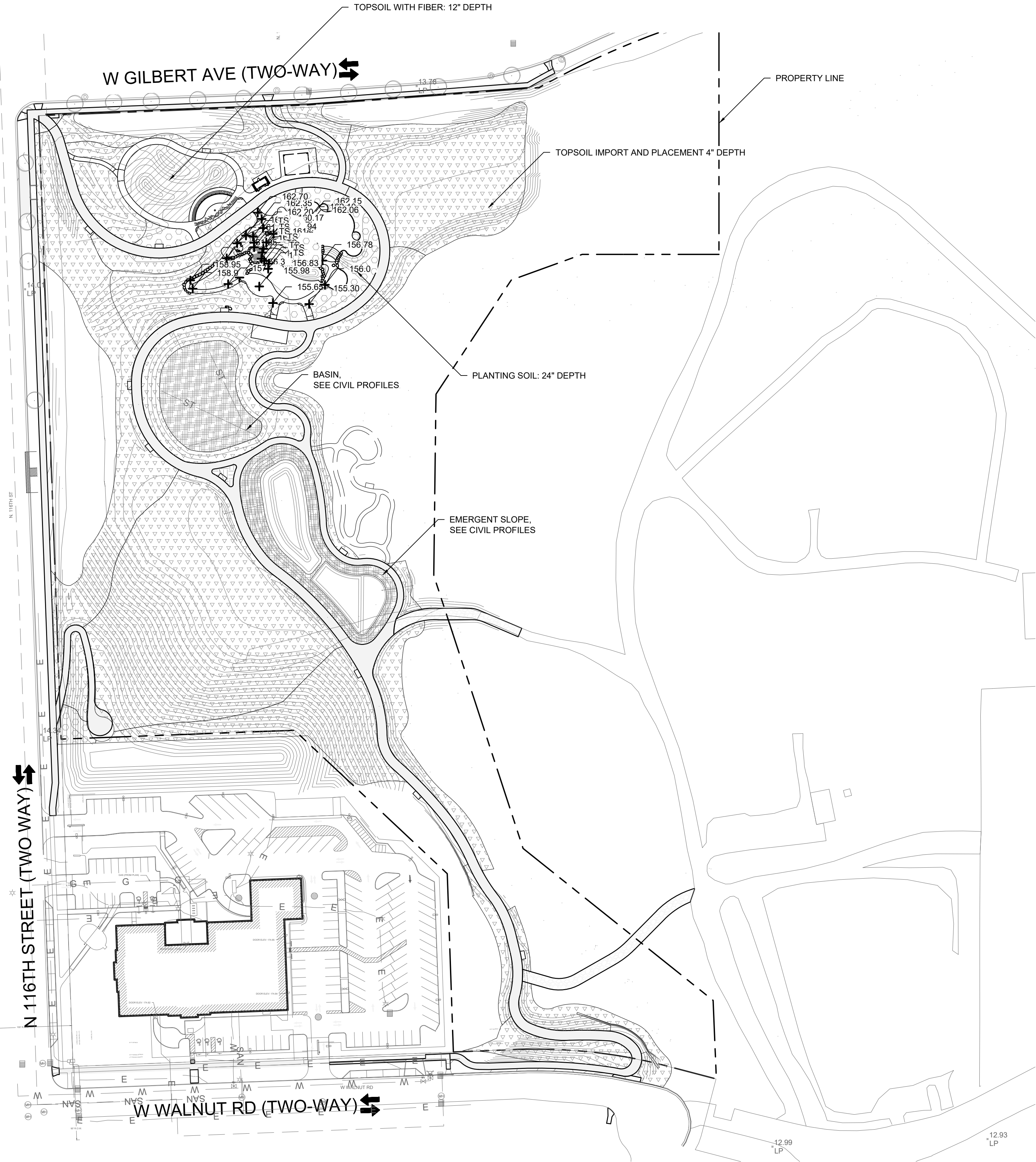
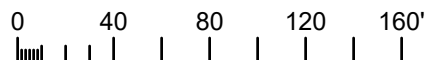
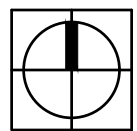
PLOT DATE:

PLOTTED BY:

SHEET:

CONTRACT:	9509	CITY OF WAUWATOSA  ENGINEERING SERVICES DIVISION
FILE NO:	DN	
DRAWN BY:	BK	
CHECKED BY:		
SCALE:		
PLAYGROUND EQUIPMENT ENLARGEMENT PLAN (FOR REFERENCE ONLY)		 sigma Single Source. Sound Solutions. GROUP
1700 N 116TH STREET WAUWATOSA, WI 53226		
L104A.2		

1 SOILS PLAN
1"=30'-0"



LEGEND	
	PROPERTY LINE
	TOPSOIL IMPORT AND PLACEMENT 4" DEPTH
	PLANTING SOIL: 24" DEPTH
	TOPSOIL WITH FIBER: 12" DEPTH

FILE NAME:

PLOT DATE:

PLOTTED BY:

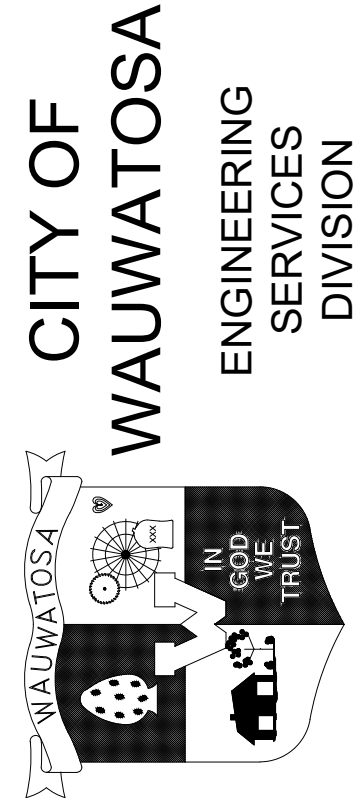
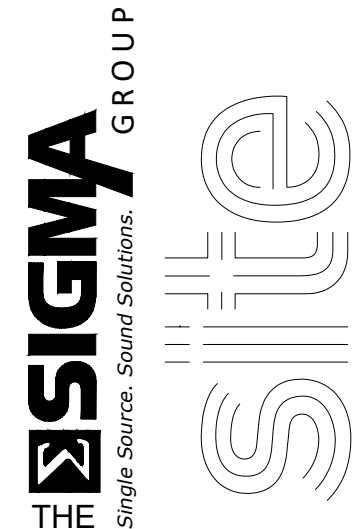
SHEET:

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

L105

SOILS PLAN

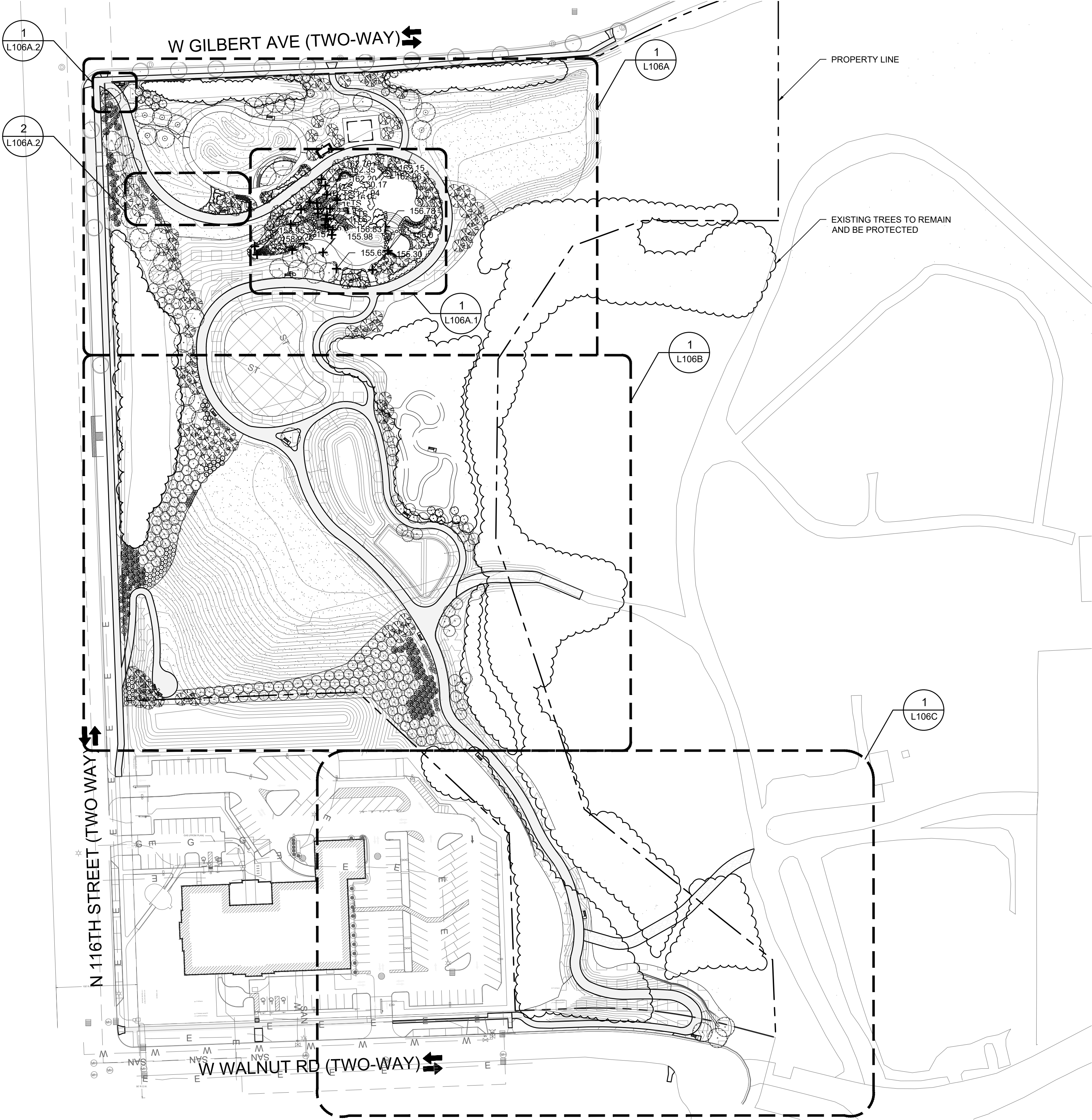
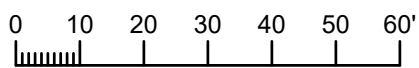
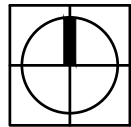
1700 N 116TH STREET
WAUWATOSA, WI 53226



DATE	DESCRIPTION

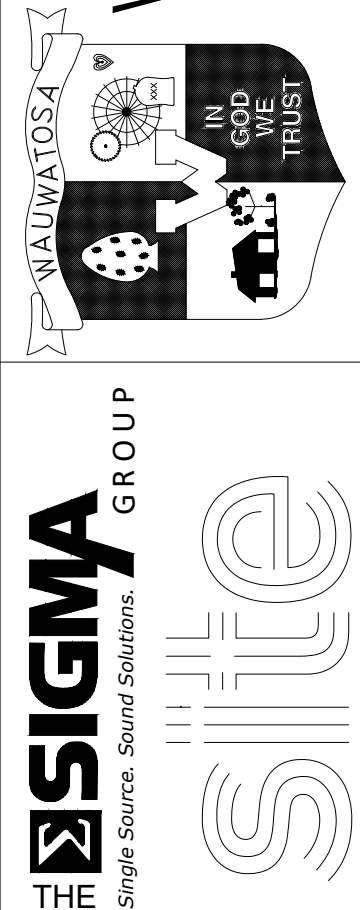
1

PLANTING PLAN
1"=80'-0"



LEGEND	
	PROPERTY LINE
	LAWN SEED MIX
	PERENNIALS AND ORNAMENTAL GRASSES
	LOW PRAIRIE SEED MIX
	BASIN SEED MIX
	EMERGENT SLOPE SEED MIX
	NO MOW TURF
	SHADE TREE
	ORNAMENTAL TREE
	EVERGREEN TREE
	SHRUBS
	EXISTING TREES TO REMAIN AND BE PROTECTED
	EXISTING TREE TO REMAIN

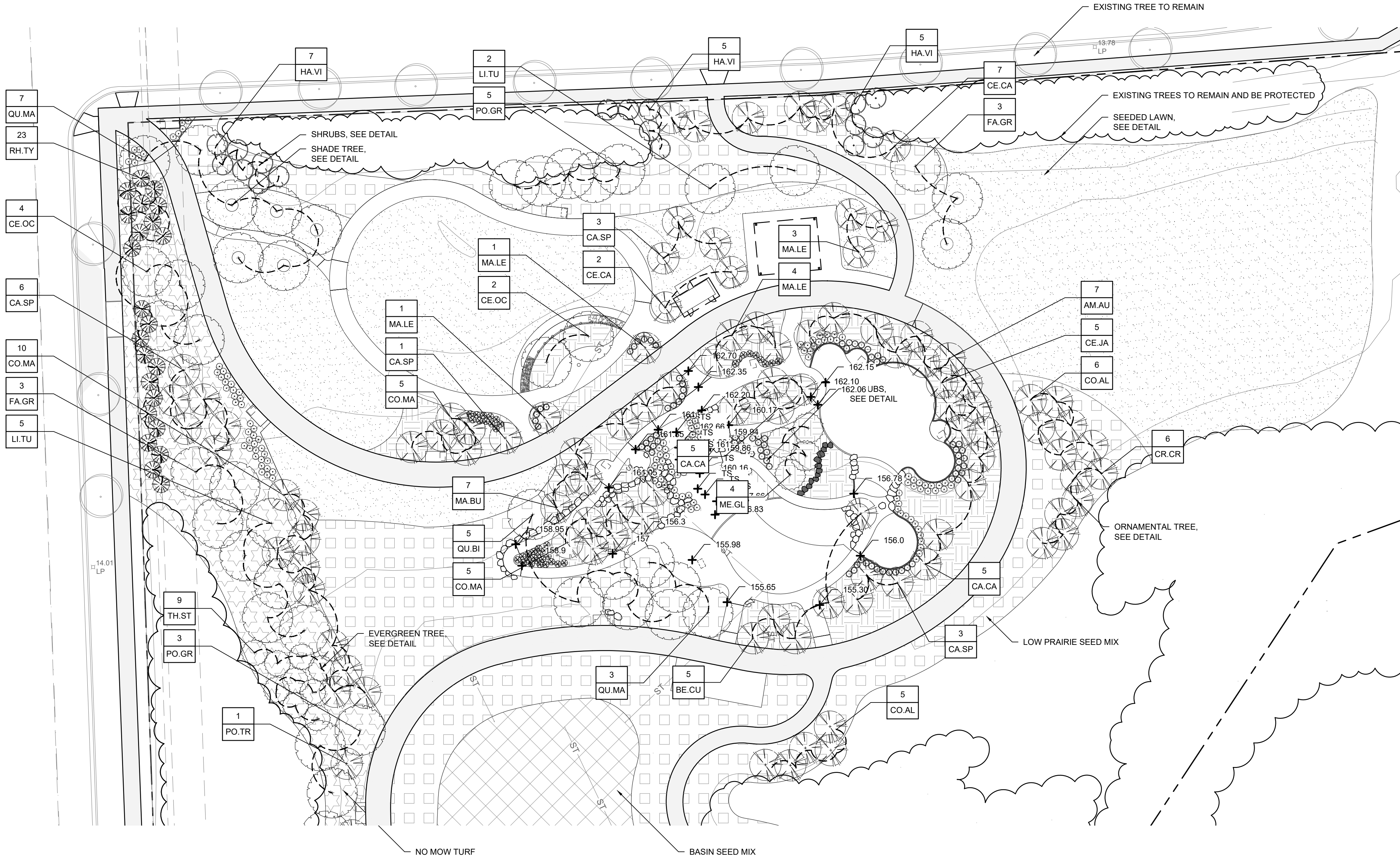
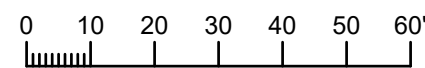
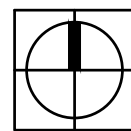
CONTRACT: FILE NO: DRAWN BY: CHECKED BY: SCALE:	9509 DN BK	PLANTING PLAN 1700 N 116TH STREET WAUWATOSA, WI 53226	CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION	DESCRIPTION
L106			DATE	



1

NORTH TREES AND SHRUBS PLANTING PLAN ENLARGEMENT

1"= 30'-0"



LEGEND




- PROPERTY LINE
- LAWN SEED MIX
- PERENNIALS AND ORNAMENTAL GRASSES
- LOW PRAIRIE SEED MIX
- BASIN SEED MIX
- EMERGENT SLOPE SEED MIX
- NO MOW TURF
- SHADE TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- SHRUBS
- EXISTING TREES TO REMAIN AND BE PROTECTED
- EXISTING TREE TO REMAIN

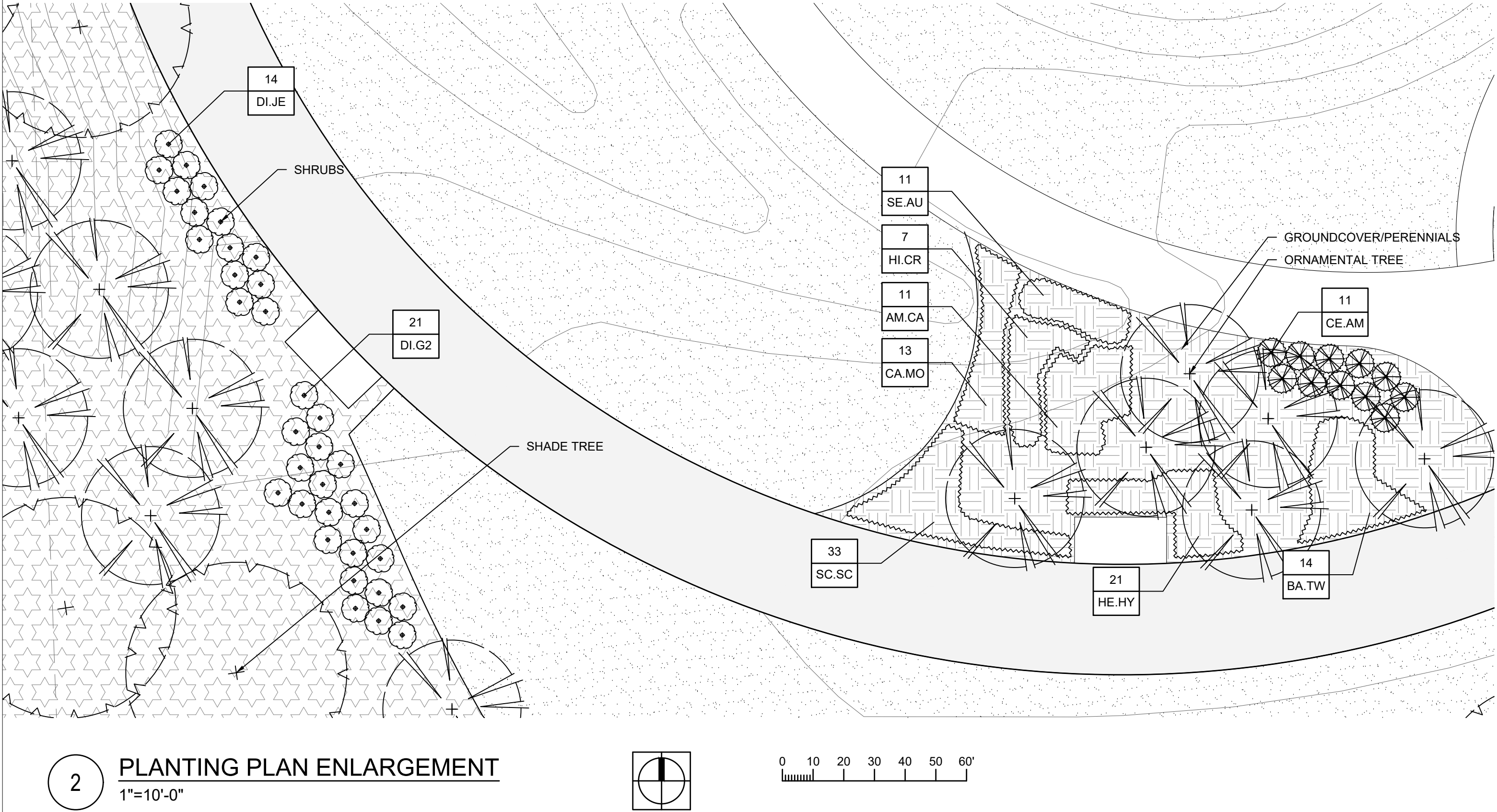
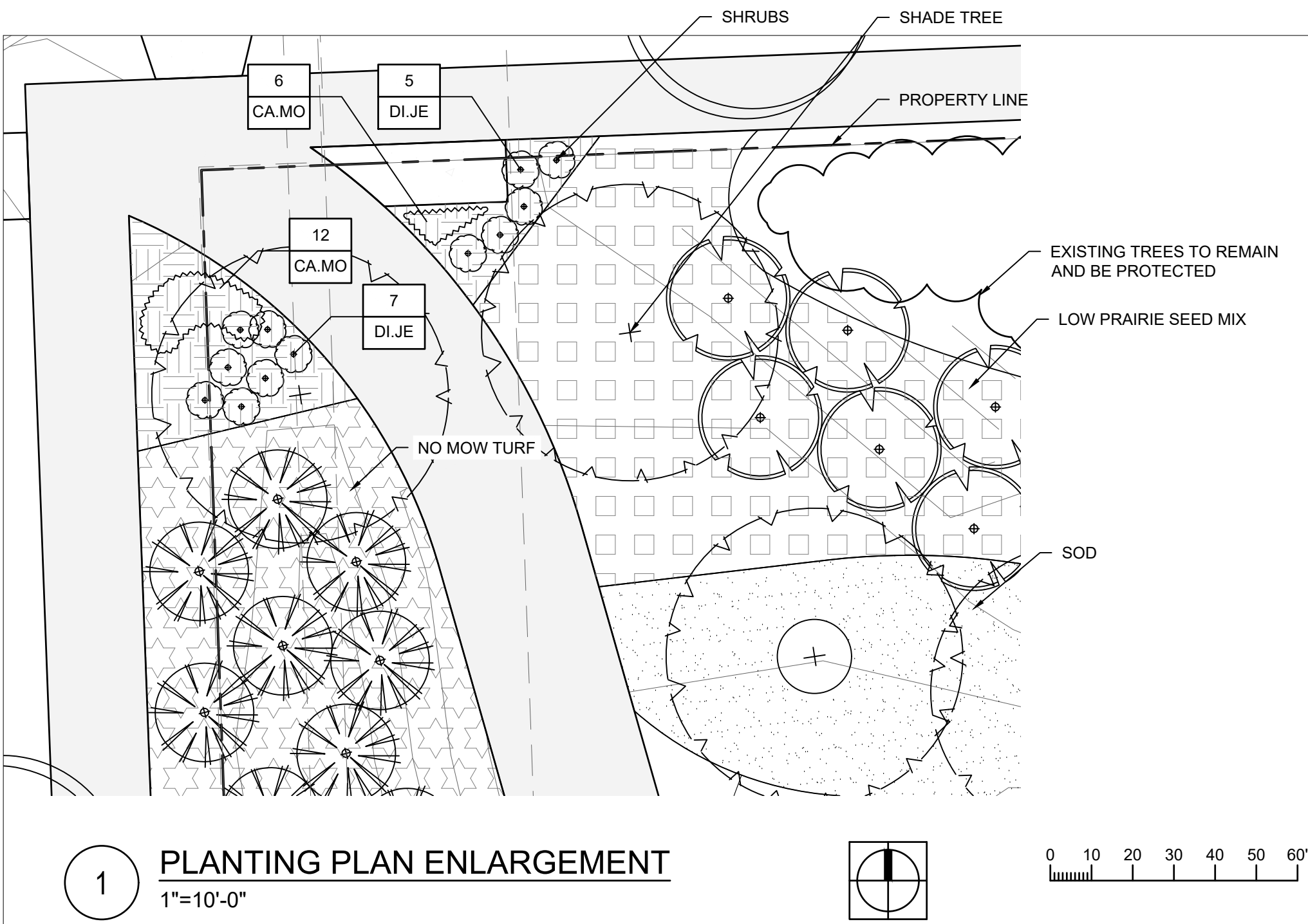
FILE NAME:

PLOT DATE:

PLOTTED BY:

SHEET:

CONTRACT:		9509	CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION	DATE	DESCRIPTION			
FILE NO:								
DRAWN BY:								
CHECKED BY:								
SCALE:								
L106A								
NORTH TREES AND SHRUBS PLANTING PLAN ENLARGEMENT						 		
1700 N 116TH STREET								
WAUWATOSA, WI 53226								



LEGEND

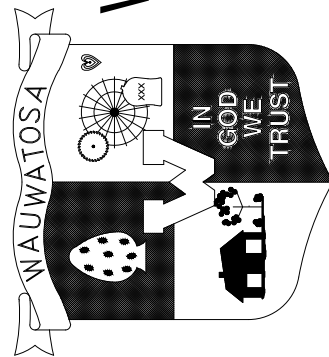
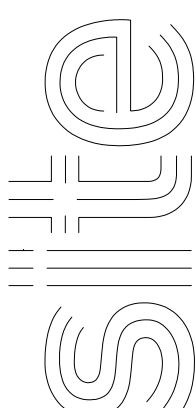
- PROPERTY LINE
- LAWN SEED MIX
- PERENNIALS AND ORNAMENTAL GRASSES
- LOW PRAIRIE SEED MIX
- BASIN SEED MIX
- EMERGENT SLOPE SEED MIX
- NO MOW TURF
- SHADE TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- SHRUBS
- EXISTING TREES TO REMAIN AND BE PROTECTED
- EXISTING TREE TO REMAIN

FILE NAME:

PLOT DATE:

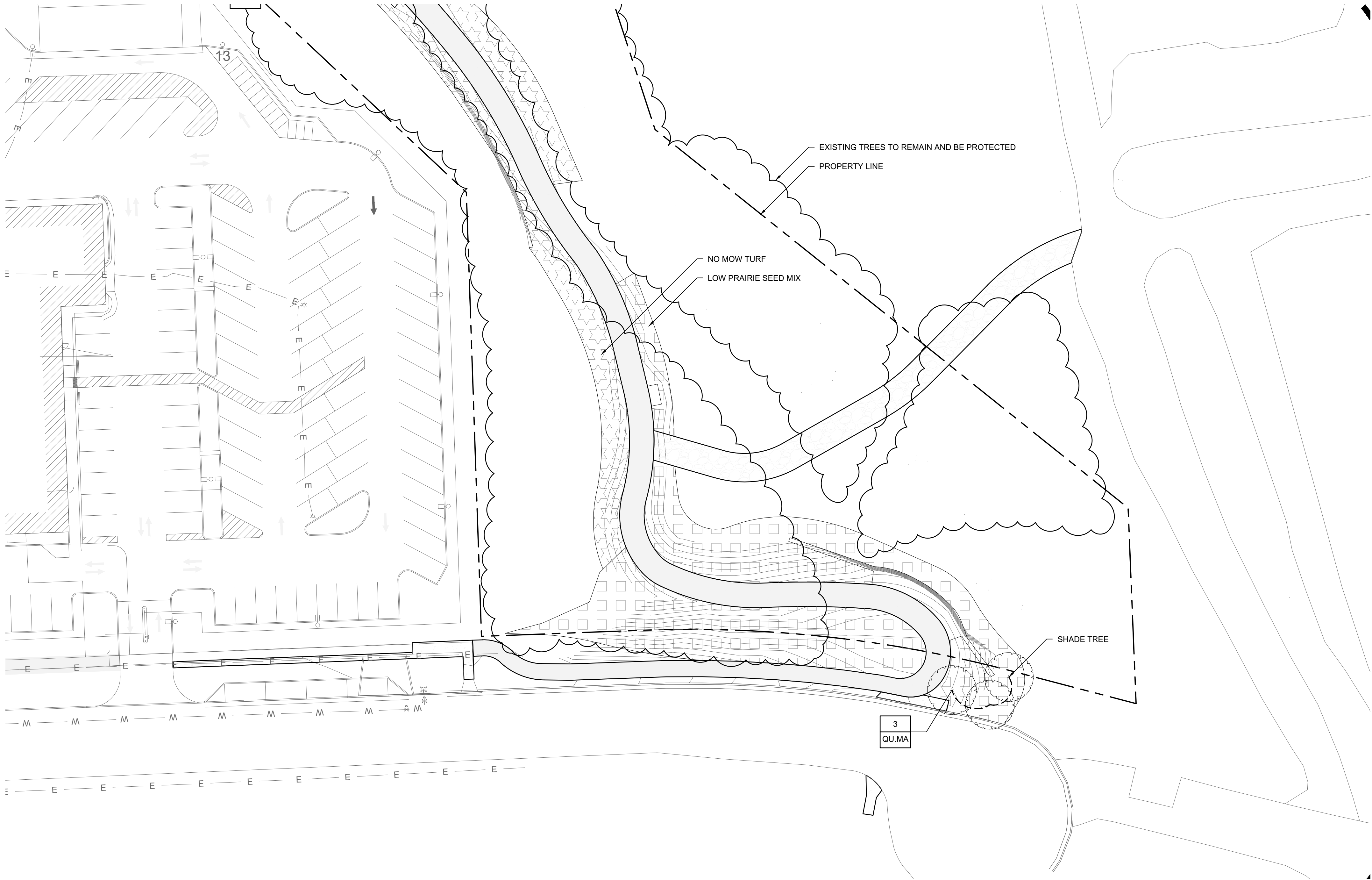
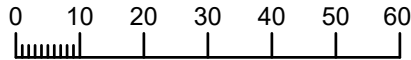
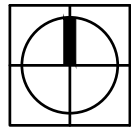
PLOTTED BY:

SHEET:

CONTRACT:		9509	CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION		THE SIGMA GROUP <small>Single Source. Sound Solutions.</small>		PLANTING PLAN ENLARGEMENT	1700 N 116TH STREET WAUWATOSA, WI 53226	L106A.2
FILE NO:									
DRAWN BY: DN									
CHECKED BY: BK									
SCALE:									

1

PLANTING PLAN ENLARGEMENT
1"= 30'-0"



LEGEND

PROPERTY LINE

LAWN SEED MIX

PERENNIALS AND ORNAMENTAL GRASSES

LOW PRAIRIE SEED MIX

BASIN SEED MIX

EMERGENT SLOPE SEED MIX

NO MOW TURF

SHADE TREE

ORNAMENTAL TREE

EVERGREEN TREE

SHRUBS

EXISTING TREES TO REMAIN AND BE PROTECTED

EXISTING TREE TO REMAIN

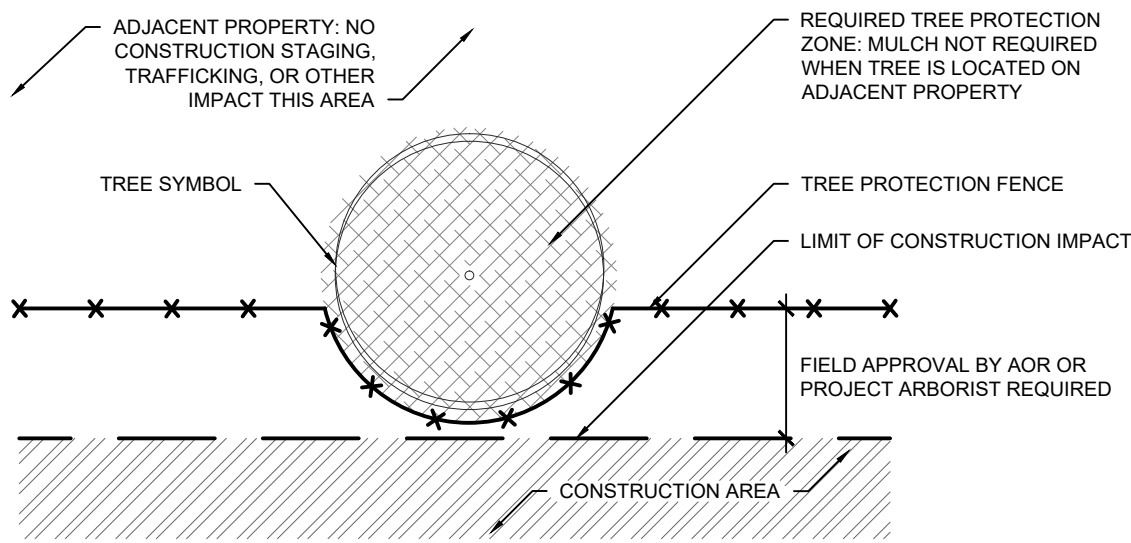
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FILE NO: DN
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CHECKED BY: BK
SCALE:

L106C

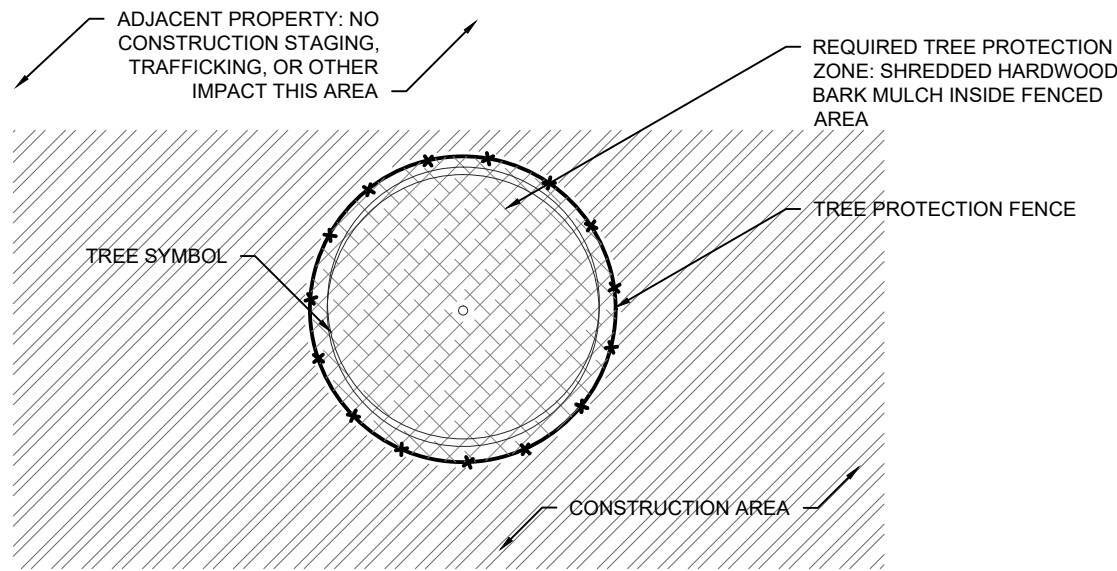
PLANTING PLAN ENLARGEMENT
1700 N 116TH STREET
WAUWATOSA, WI 53226

DATE

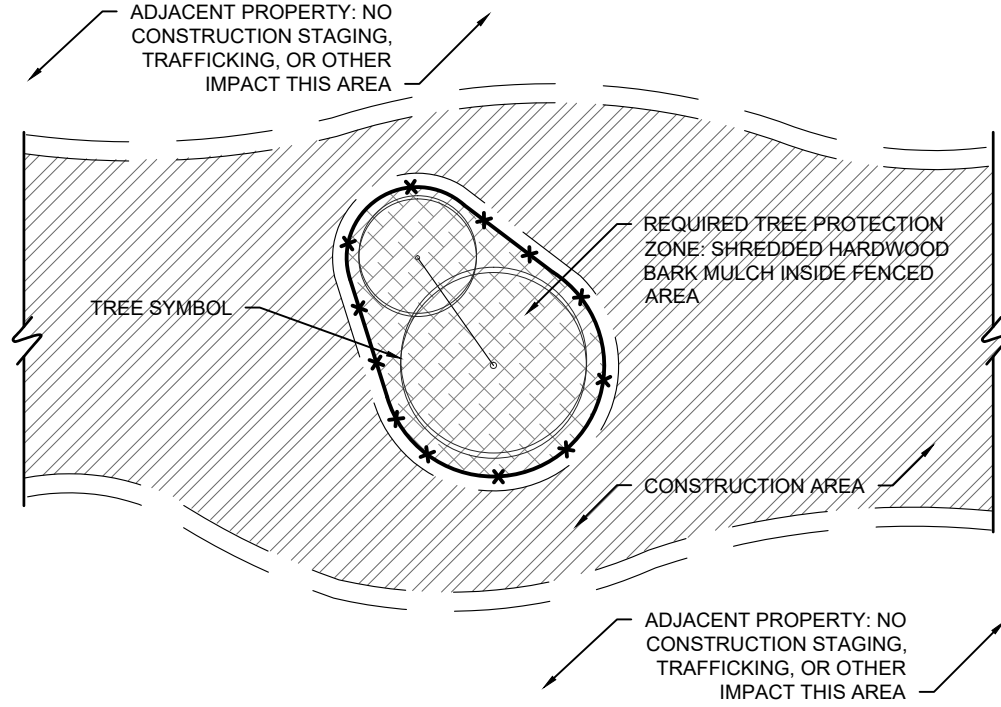
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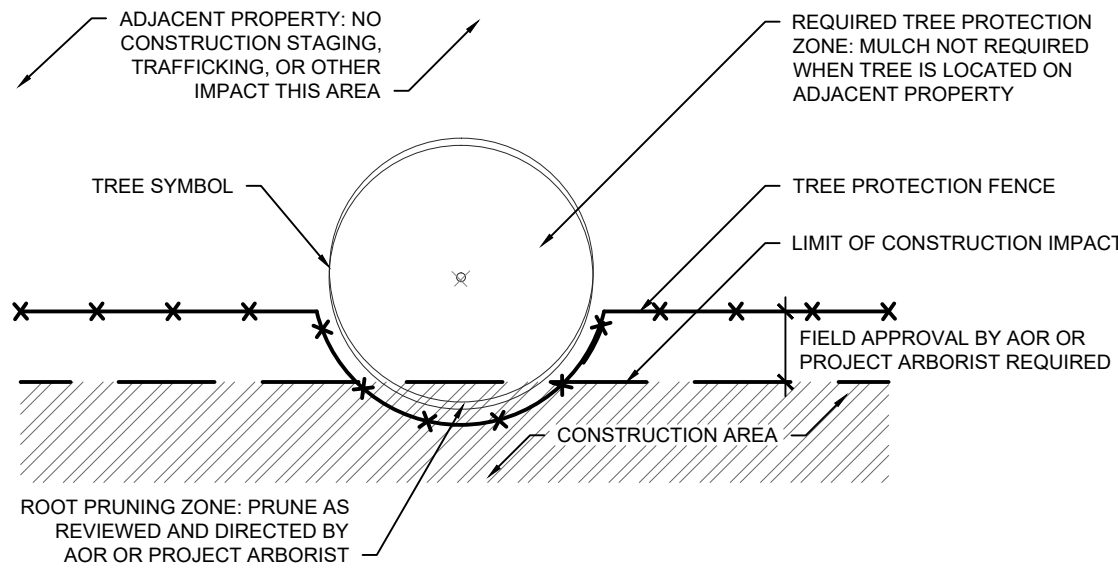
1A **TREE PROTECTION FENCE INTERSECTS PROPERTY LIMIT;
NO ROOT PRUNING REQUIRED PLAN**
NOT TO SCALE



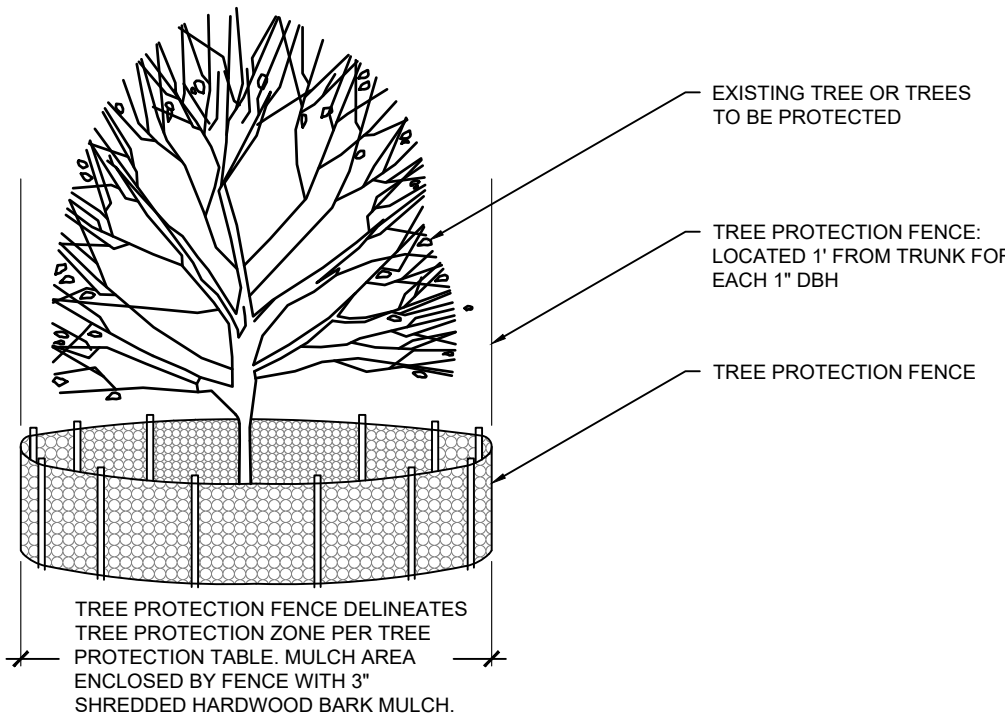
2A **TREE PROTECTION ENTIRELY
WITHIN CONSTRUCTION AREA PLAN**
NOT TO SCALE



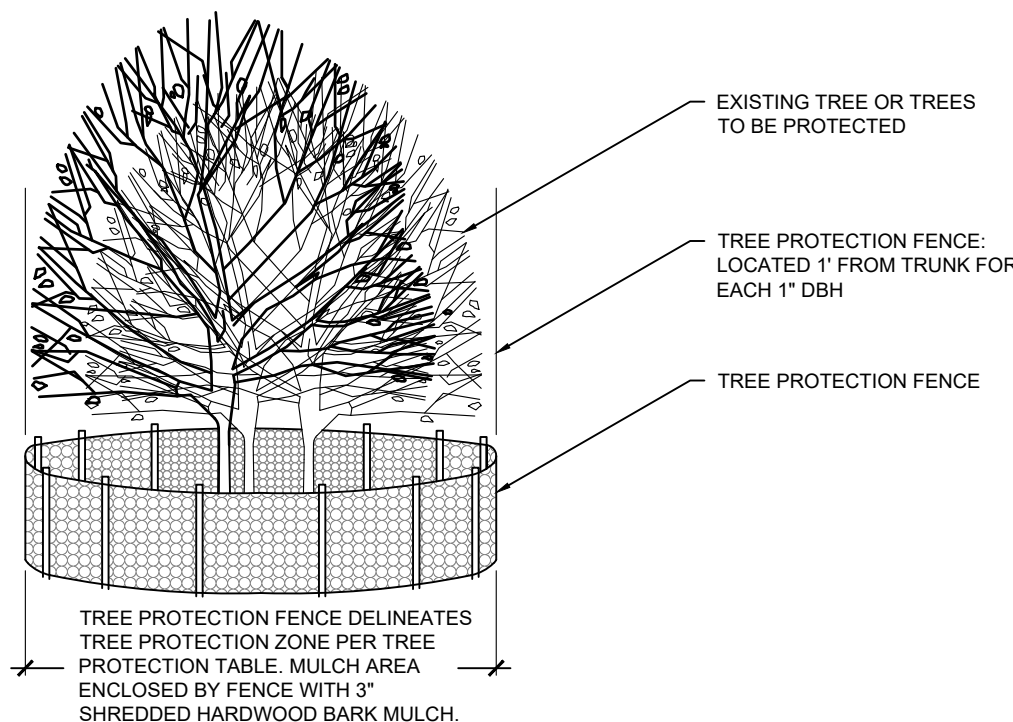
3A **GROUP TREE PROTECTION
ENTIRELY WITHIN CONSTRUCTION AREA PLAN**
NOT TO SCALE



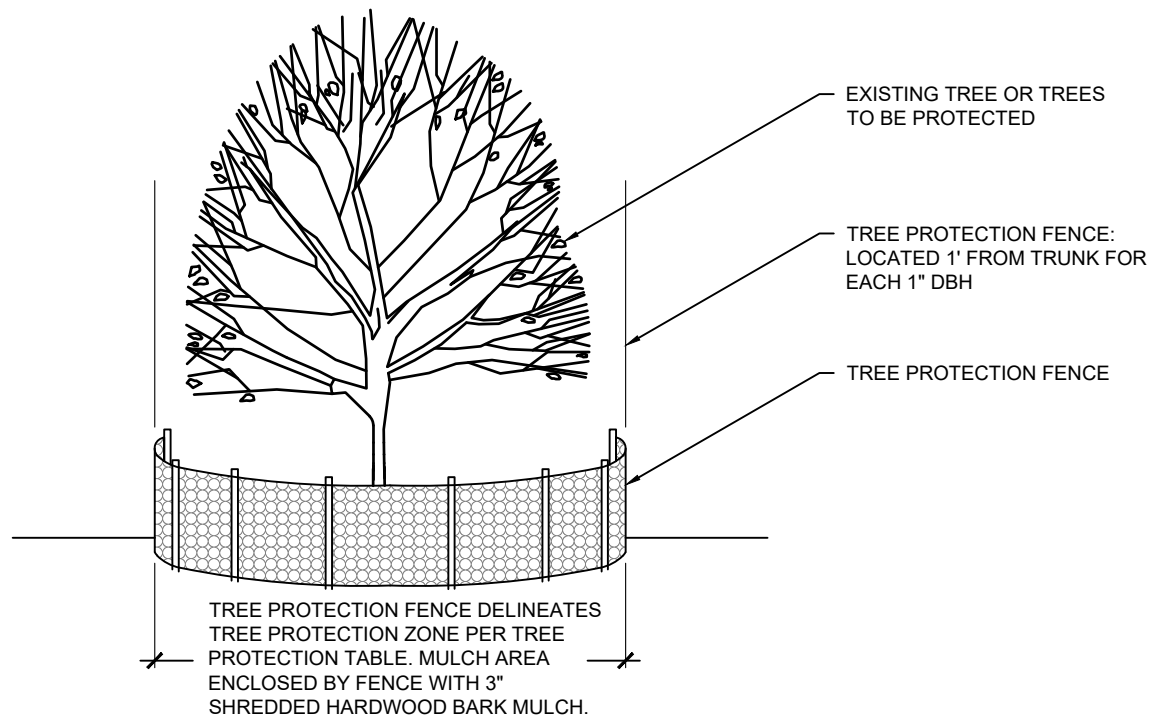
1B **TREE PROTECTION FENCE INTERSECTS PROPERTY LIMIT;
ROOT PRUNING REQUIRED PLAN**
NOT TO SCALE



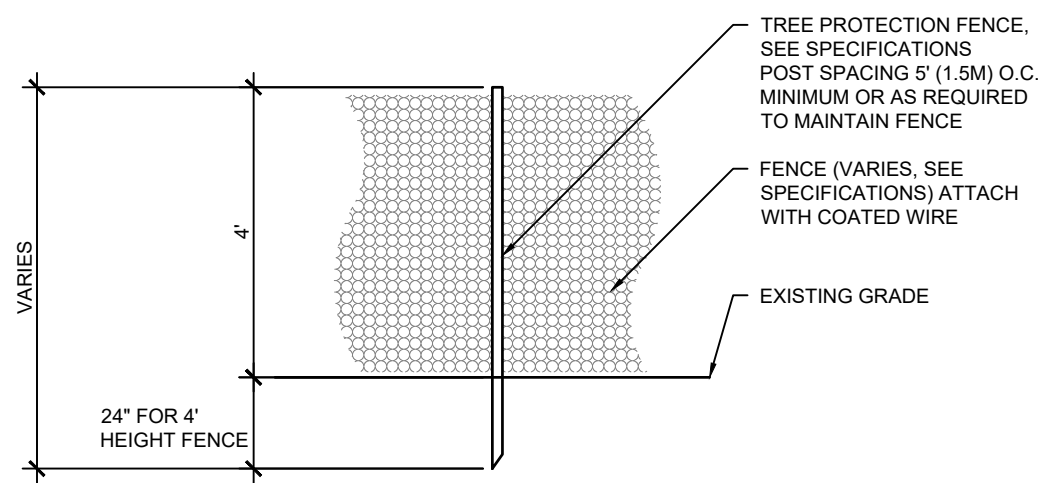
2B **TREE PROTECTION ENTIRELY
WITHIN CONSTRUCTION AREA ELEVATION**
NOT TO SCALE



3B **GROUP TREE PROTECTION
ENTIRELY WITHIN CONSTRUCTION AREA ELEVATION**
NOT TO SCALE



1C **TREE PROTECTION FENCE INTERSECTS PROPERTY LIMIT;
NO ROOT PRUNING REQUIRED ELEVATION**
NOT TO SCALE

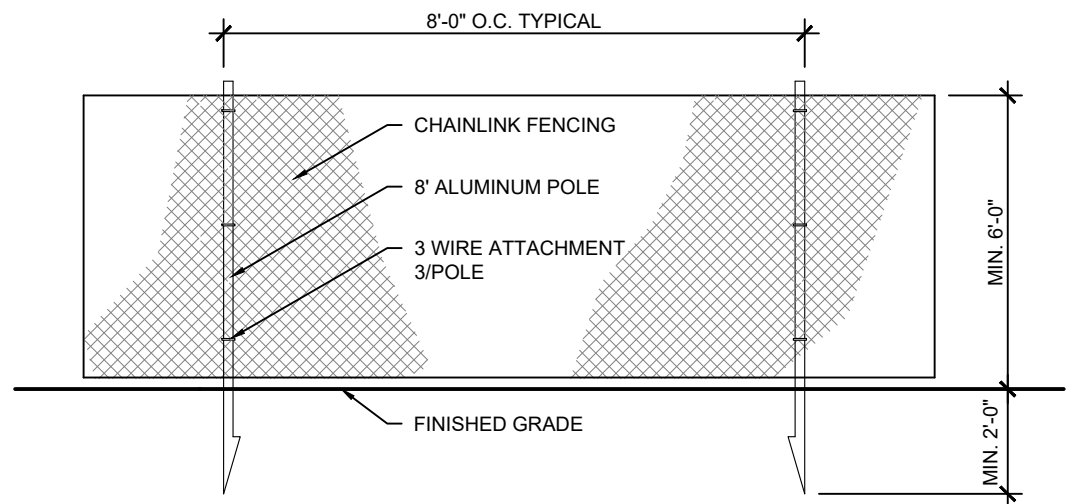


4 **TREE PROTECTION FENCE**
NOT TO SCALE

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

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

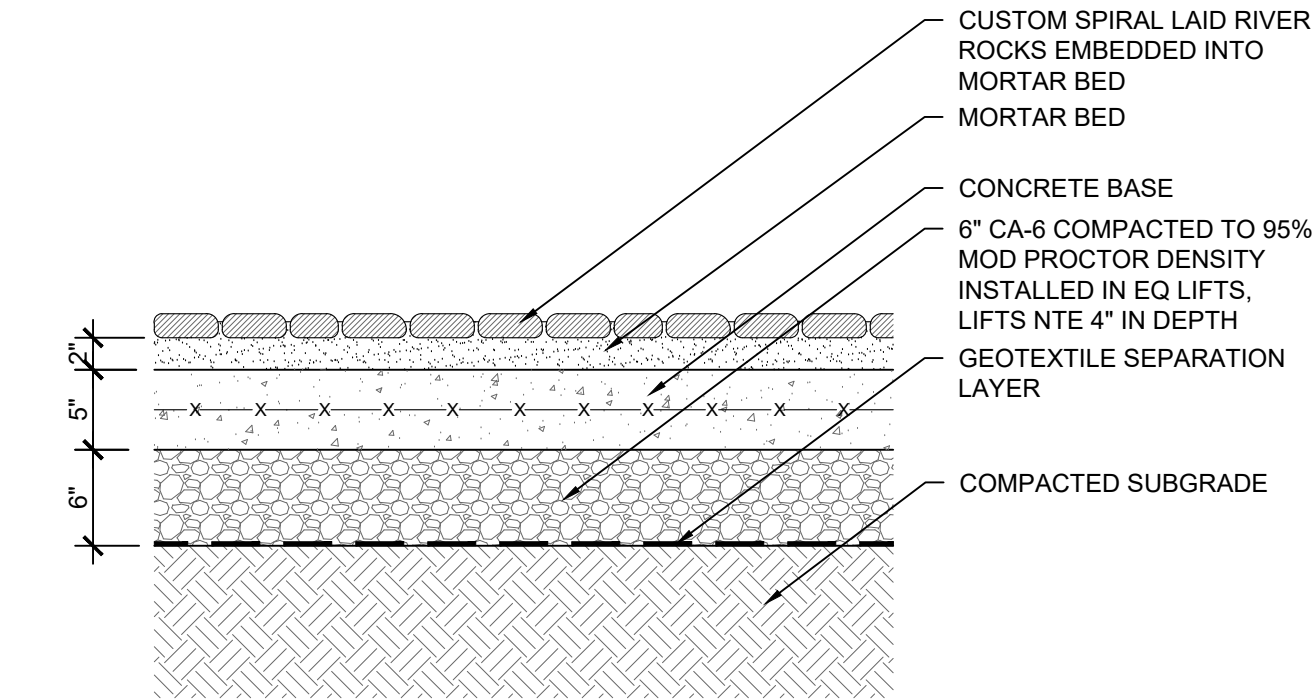
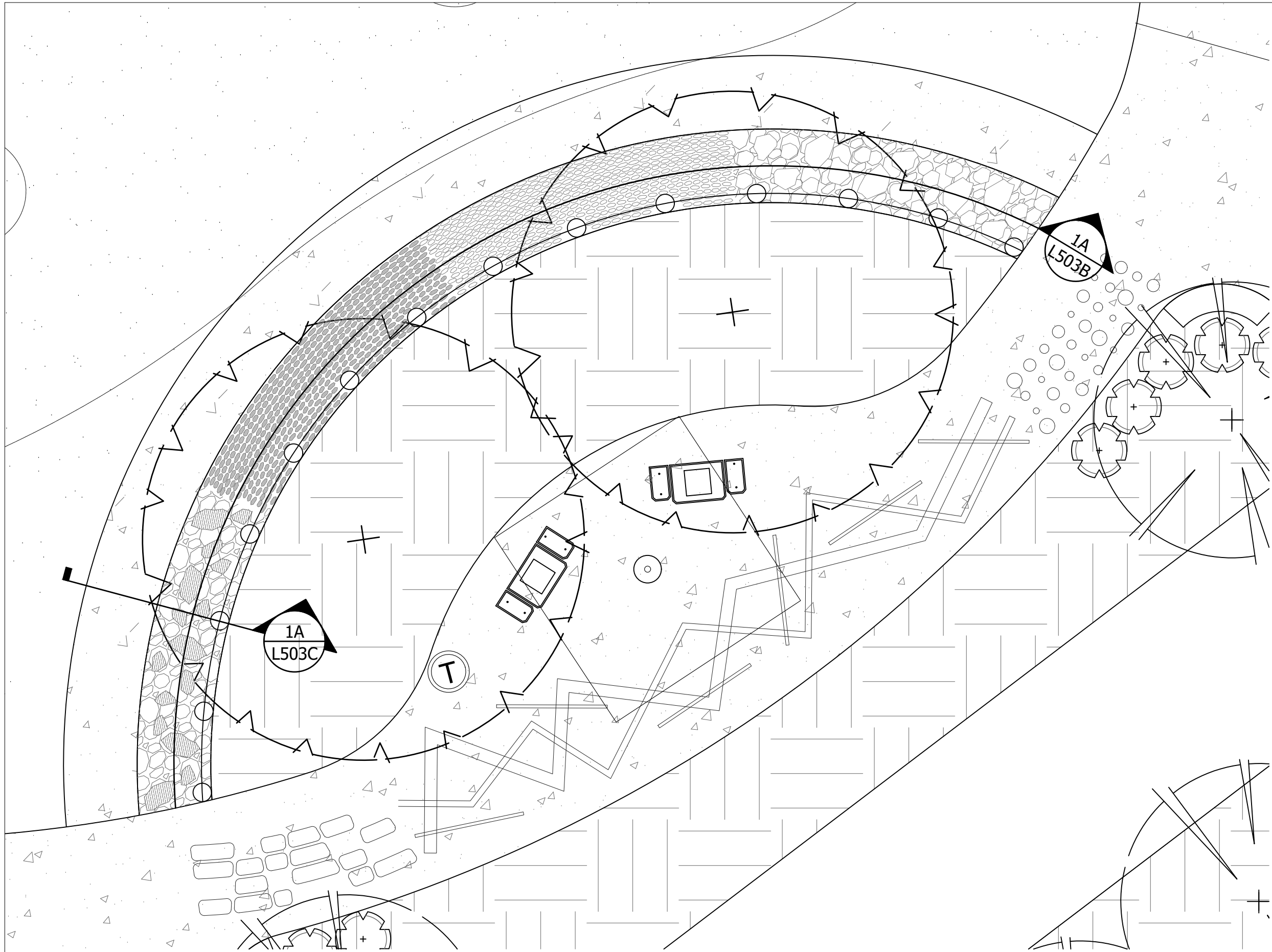
5 **TREE PROTECTION TABLE AND NOTES**
NOT TO SCALE



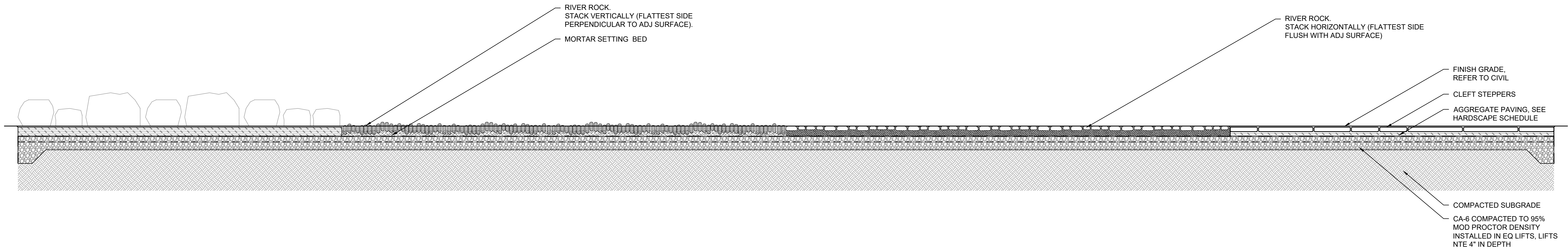
6 **6'H CONSTRUCTION FENCE ELEVATION**
NOT TO SCALE

CONTRACT:	9509	CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION
FILE NO:	DN	
DRAWN BY:	BK	
CHECKED BY:		
SCALE:		
L501		


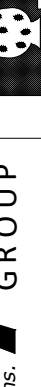
PRESERVATION AND DEMOLITION DETAILS	1700 N 116TH STREET WAUWATOSA, WI 53226
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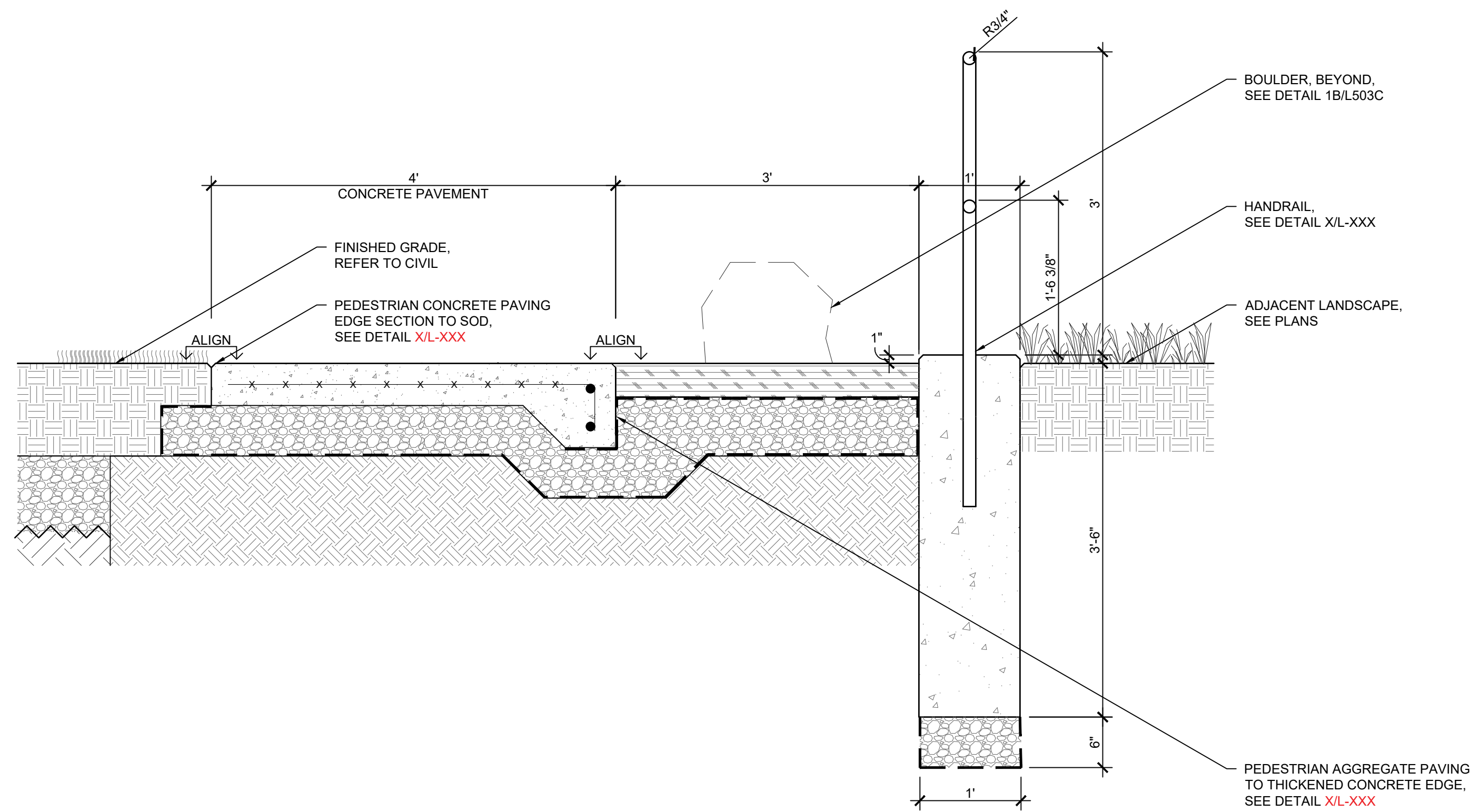


2 RIVER ROCK SECTION
1" = 1'-0"

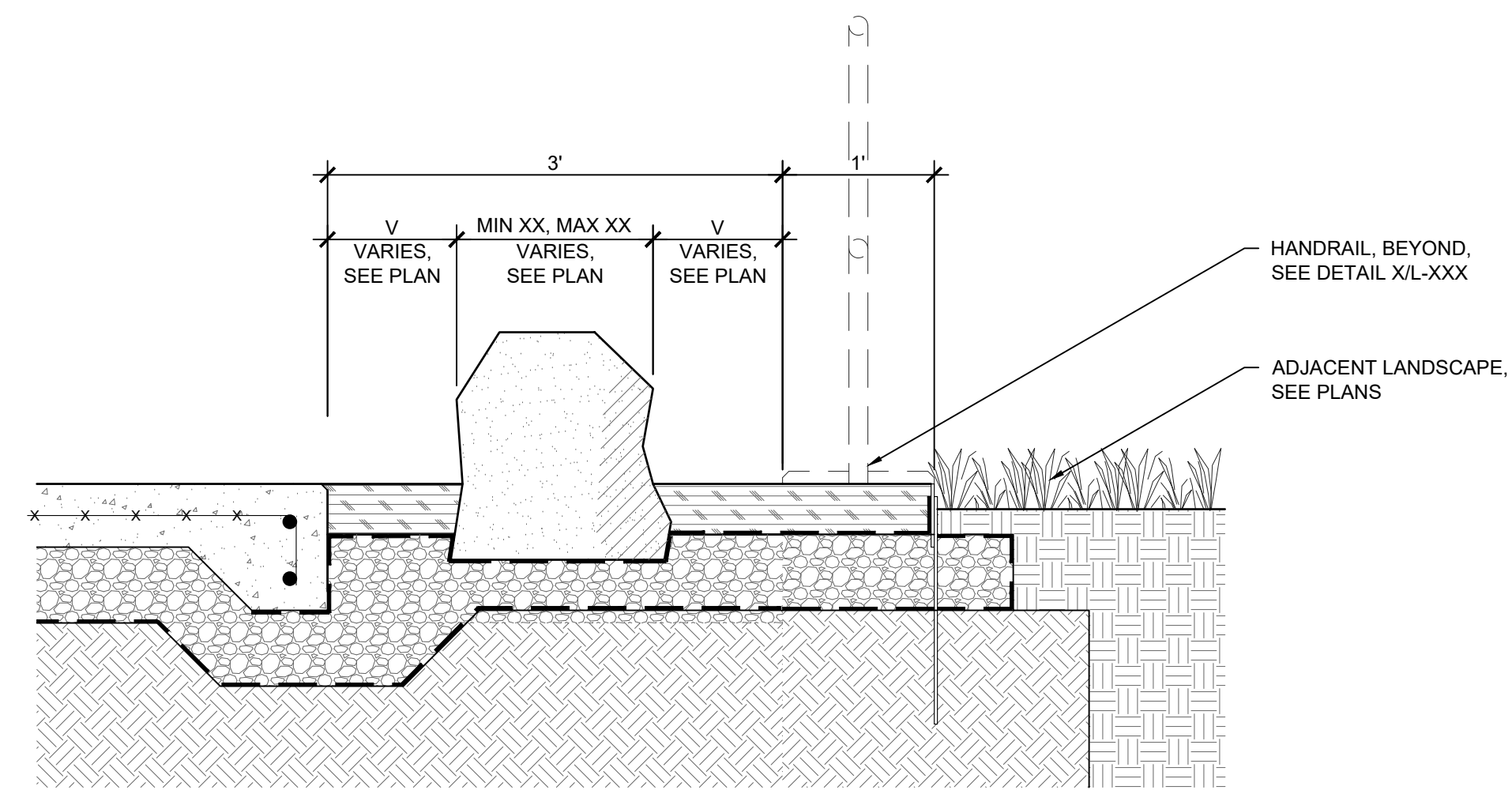


1A SENSORY WALKING PATH SECTION
1/2" = 1'-0"

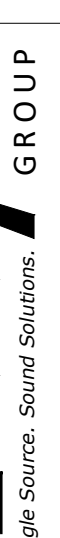

CONTRACT:		9509	<div>CITY OF WAUWATOSA</div> <div>ENGINEERING SERVICES DIVISION</div>	DATE	DESCRIPTION
FILE NO:		DN			
DRAWN BY:		BK			
CHECKED BY:					
SCALE:					
L503B					
1700 N 116TH STREET WAUWATOSA, WI 53226					
HARDSCAPE DETAILS					
THE SIGMA GROUP <small>Single Source. Sound Solutions.</small>					
					

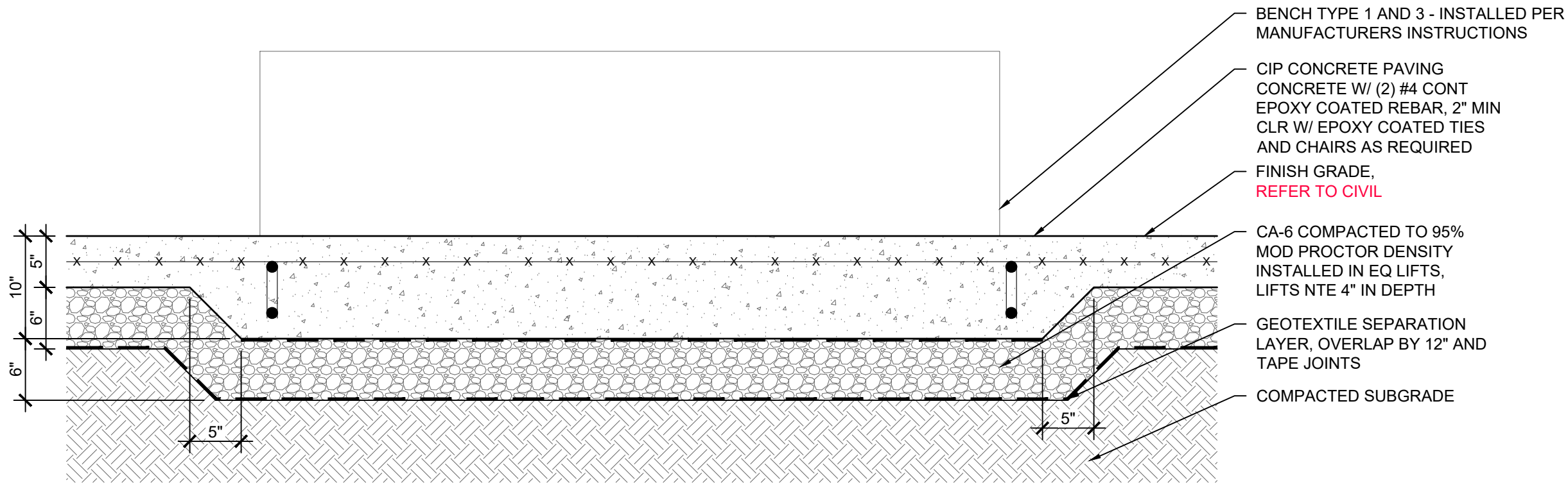


1A SENSORY WALKING PATH SECTION
1" = 1'-0"

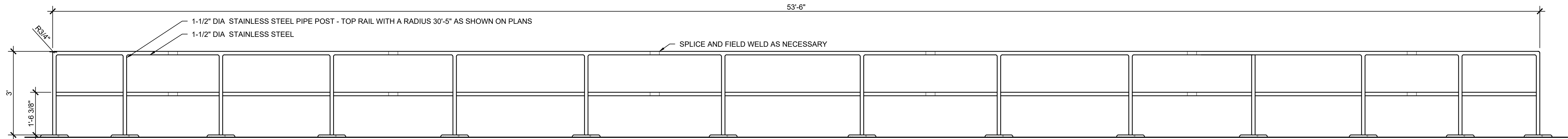


1B BOULDER IN SENSORY WALKING PATH SECTION
1" = 1'-0"

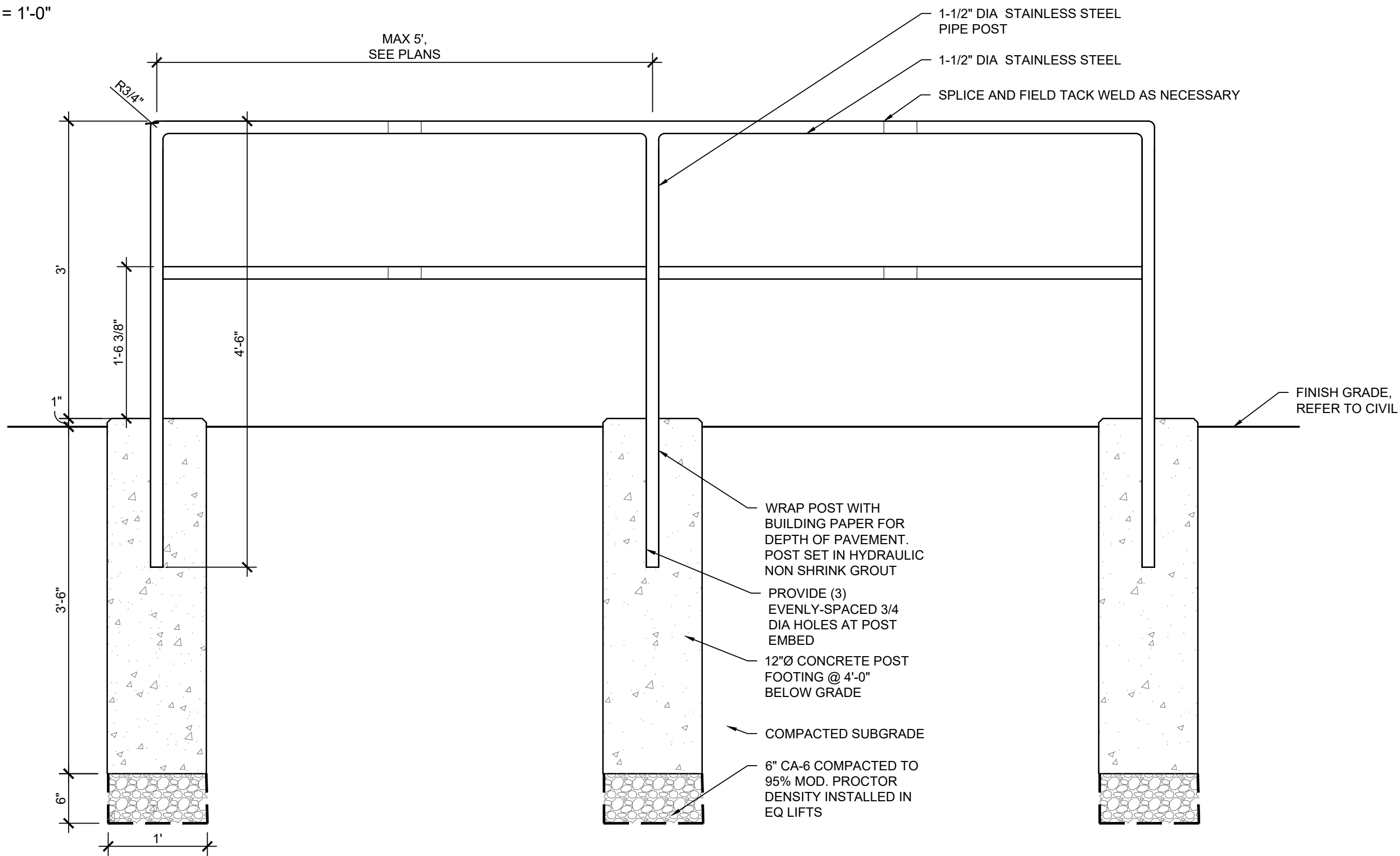
CONTRACT: FILE NO: 9509 DRAWN BY: DN CHECKED BY: BK SCALE:	L503C		HARDSCAPE DETAILS 1700 N 116TH STREET WAUWATOSA, WI 53226				DATE	DESCRIPTION



X BENCH TYPE 1 AND 3 THICKENED CONCRETE PAD SECTION
1" = 1'-0"



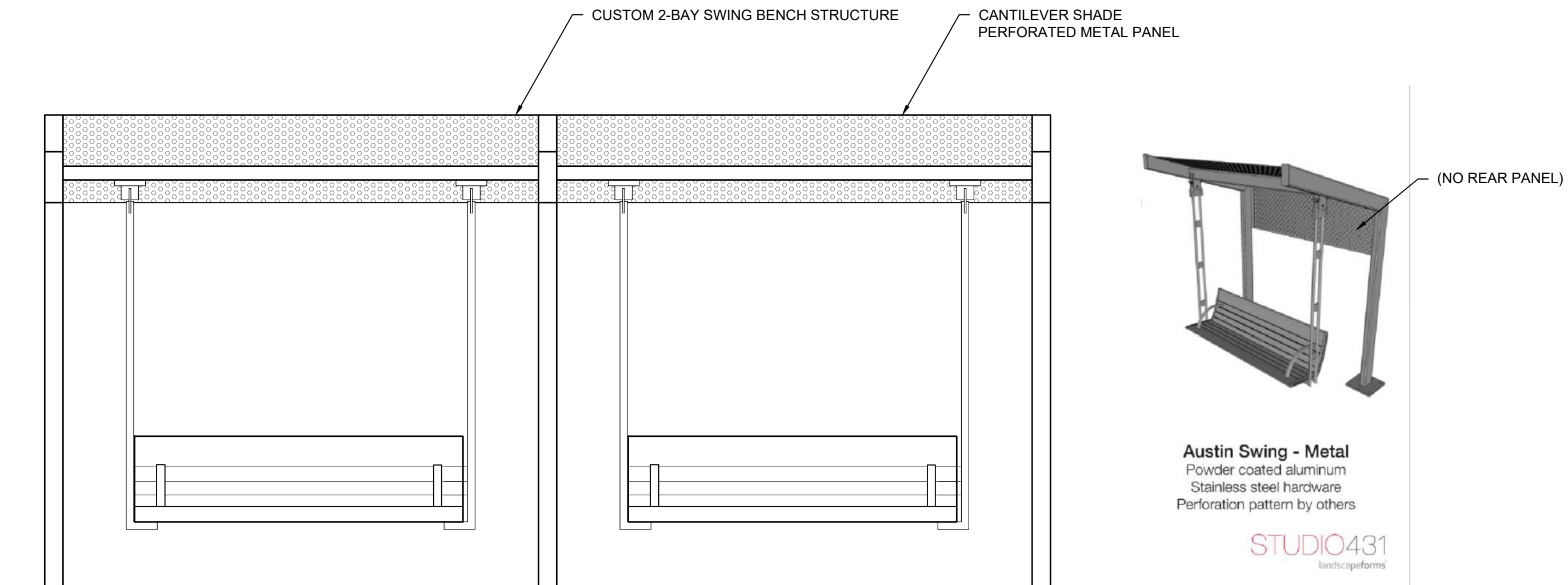
X HANDRAIL ELEVATION DETAIL
1/2" = 1'-0"



X HANDRAIL SECTION
1" = 1'-0"

CONTRACT:	9509	DESCRIPTION	
FILE NO:	DN	DATE	
DRAWN BY:	BK		
CHECKED BY:			
SCALE:			
L503D		CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION	
HARDSCAPE DETAILS		1700 N 116TH STREET WAUWATOSA, WI 53226	

1 BENCH SWING (FOR REFERENCE ONLY)
NTS



6 IN. SQUARE STEEL POSTS WITH WELDED ON BASE PLATE TO PIERS (PIERS BY OTHERS)

ANCHOR BOLT AND STEEL BASE PLATE PER MANUFACTURER BOLTED TO CONCRETE FOUNDATION

3/4" MIN. HIGH-STRENGTH, NONSHRINK GROUT. (f_{cg} = 5000 PSI)

ADJACENT FINISH GRADE

1/2" CHAMFER ALL SIDES

1/2" EXPANSION JOINT

#4 @ 12" HORIZONTAL TIES, (6) #6 EPOXY COATED VERT BARS

EPOXY-COATED REBAR CAGE WITH 3" CONCRETE COVER

4'-0"

1'-6"

1'-6"

SHADE STRUCTURE POST FOOTING DETAIL

2

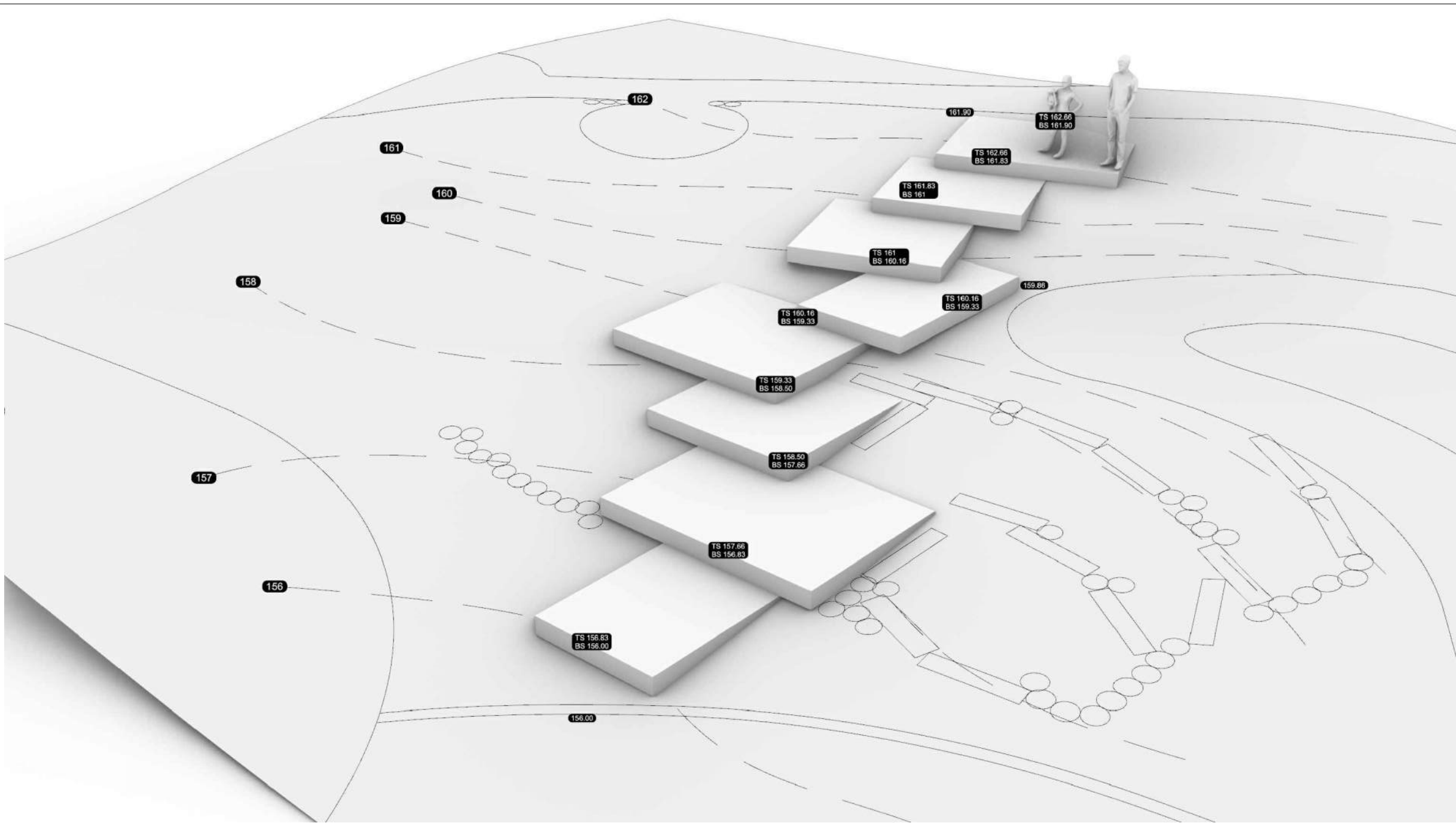
1/2" = 1'-0"



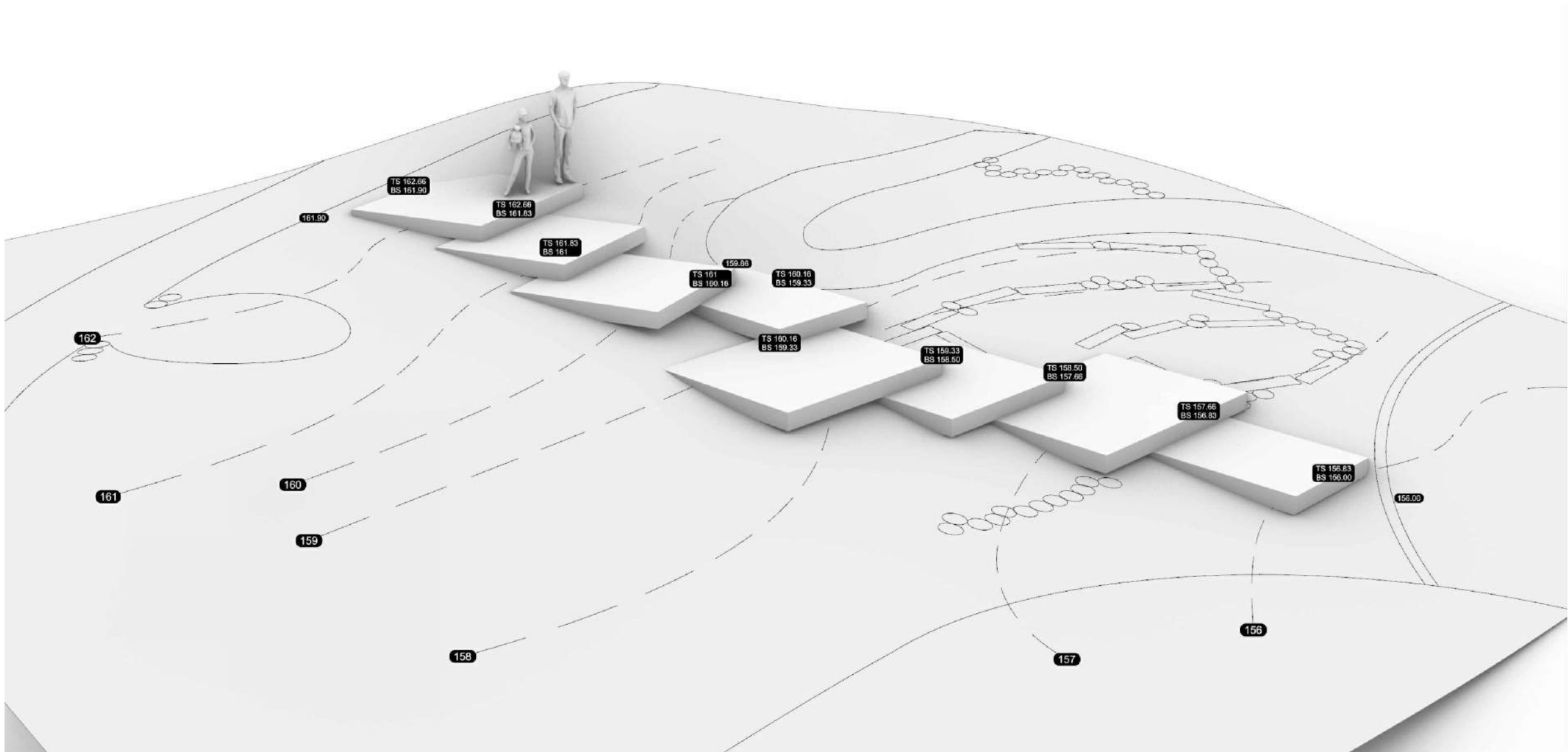
1 WOOD PLATFORM KEY PLAN
1/4" = 1'-0"

2 SECTION AT WOOD PLATFORM
1/4" = 1'-0"

FILE NAME:



3 RENDERING AT WOOD PLATFORM - FROM EAST
NTS



4 RENDERING AT WOOD PLATFORM - FROM WEST
NTS

5 SECTION AT WOOD PLATFORM
1" = 1'-0"



PLOT DATE:

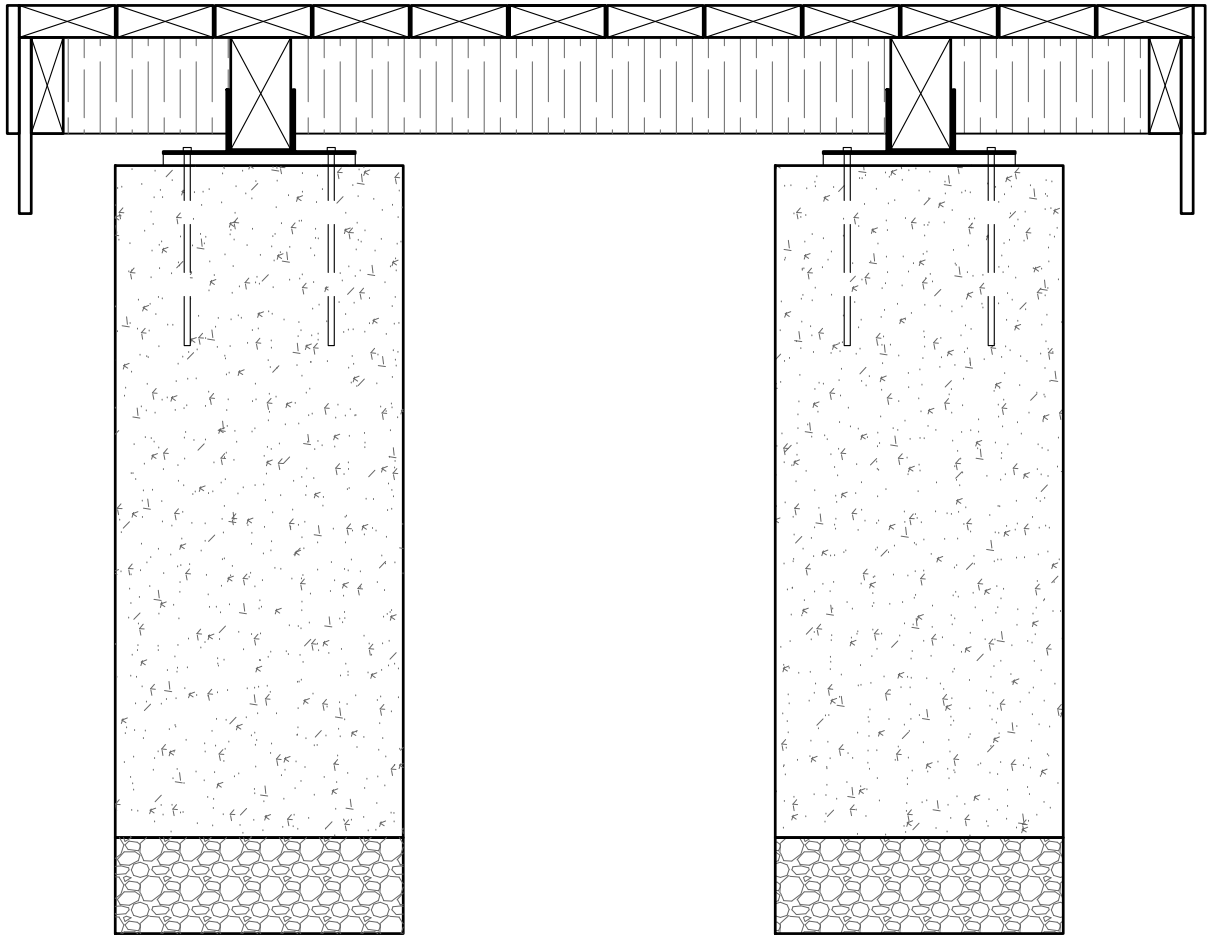
PLOTTED BY:

IN PROGRESS

6 SECTION AT WOOD PLATFORM
1" = 1'-0"

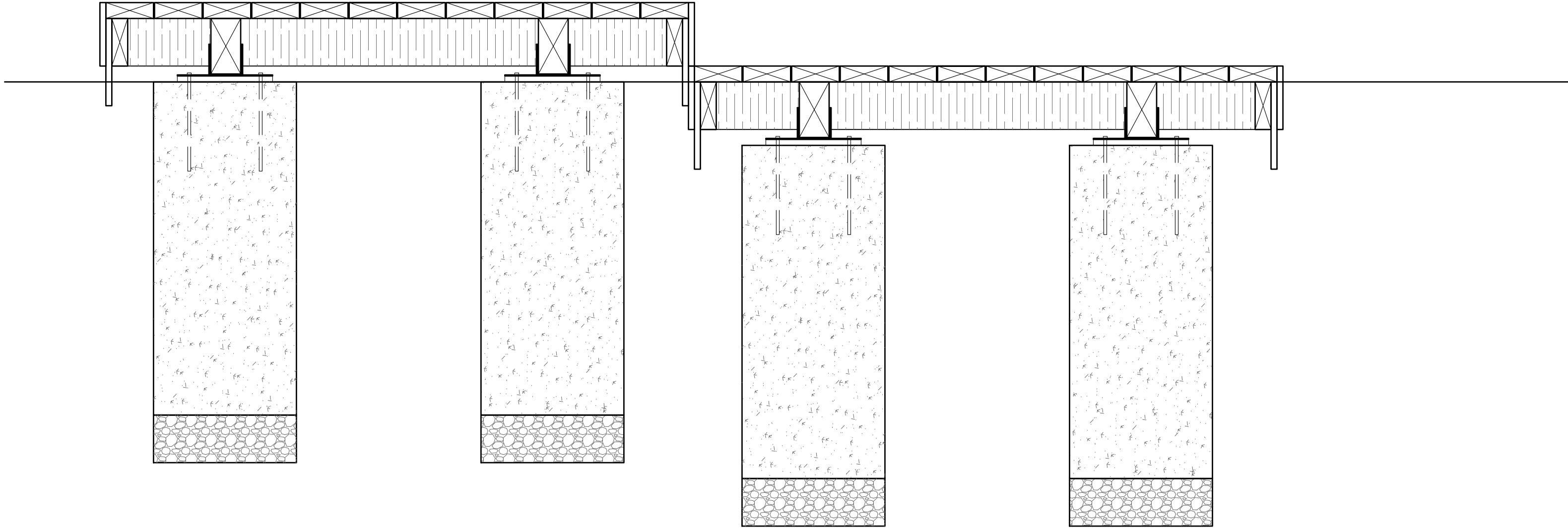
SHEET:

CONTRACT:		CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION	DATE	DESCRIPTION
FILE NO:				
DRAWN BY:				
CHECKED BY:				
SCALE:				
L504A				SITE STRUCTURES



1 TYPICAL WOOD PLATFORM DETAIL
1" = 1'-0"

IN PROGRESS




2 TYPICAL WOOD PLATFORM DETAIL
1" = 1'-0"

FILE NAME:

PLOT DATE:

PLOTTED BY:

SHEET:

CONTRACT:		<div>SITE</div>	<div>CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION</div>	DATE	DESCRIPTION
FILE NO:					
DRAWN BY:					
CHECKED BY:					
SCALE:		<div>SITE STRUCTURES</div>	<div></div>		
L504B					



1 PLAYGROUND RENDERING
NTS



2 PLAYGROUND RENDERING
NTS



3 PLAYGROUND RENDERING
NTS



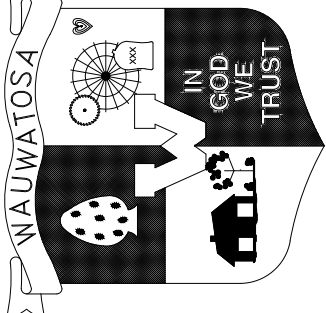
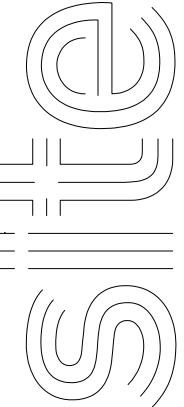
4 PLAYGROUND RENDERING
NTS



5 PLAYGROUND RENDERING
NTS



6 PLAYGROUND RENDERING
NTS

CONTRACT:		CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION	DATE	DESCRIPTION
FILE NO:				
DRAWN BY:				
CHECKED BY:				
SCALE:				
PLAYGROUND FURNISHING RENDERINGS				
L504D				

MOCKUPS															
CODE	COMPONENT	SOURCE	MATERIAL	SIZE	COLOR	FINISH	NOTES	SHEET	DETAIL	SPECIFICATION					
PA-01	CONCRETE PAVING MOCKUP (10' x 10')	-	PROVIDE MOCKUP FOR EVERY TYPE PER SCHEDULE	FULL PROFILE PER DETAIL	PER SCHEDULE	PER SCHEDULE	PROVIDE EXAMPLES OF EACH UNIQUE CONDITION PER PLANS/DETAILS	L-X	X	XX XX XX					
SW-01	SENSORY WALK TYPE 1 MOCKUP (3' x 10')	-	PER SCHEDULE	FULL PROFILE PER DETAIL	SENSORY WALK TYPE 1	PER SCHEDULE	PROVIDE EXAMPLES OF EACH UNIQUE CONDITION PER PLANS/DETAILS	L-X	X	XX XX XX					
SW-02	SENSORY WALK TYPE 2 MOCKUP (3' x 10')	-	PER SCHEDULE	FULL PROFILE PER DETAIL	SENSORY WALK TYPE 2	PER SCHEDULE	PROVIDE EXAMPLES OF EACH UNIQUE CONDITION PER PLANS/DETAILS	L-X	X	XX XX XX					
PM-01	PAINTED WALK MOCKUP (3' x 10')	-	PER SCHEDULE	FULL PROFILE PER DETAIL	PAINTED WALK	PER SCHEDULE	PROVIDE EXAMPLES OF EACH UNIQUE CONDITION PER PLANS/DETAILS	L-X	X	XX XX XX					
STRUCTURES AND ASSEMBLIES															
CODE	FURNISH/INSTALL SCOPE	COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET	DETAIL	
BD-1	OF-CI	RESTROOM BUILDING	[Owner Furnished] 6707 E. Flamingo Ave. Bldg 300 Nampa, ID 83687	Precast concrete flush toilet building	Denali CXT Standard Building	19'-8 x 10'-3" x 13'-0" H	N/A	N/A	N/A	N/A	[Owner Furnished] REQUIRED	N/A	N/A	N/A	
ASSEMBLY COMPONENT FOR ITEM ABOVE	CF-CI	FOUNDATION	N/A	Concrete Footing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
ST-01	OF-CI	PICNIC SHELTER	[Owner Furnished] Gerber Leisure Products, Inc. Contact: Meghan Barrett p. 608-514-6323 meghan@gerberleisure.com	Steel Frame Shelter	MP25x30S-P3	25' x 30' x 15'-2.3" H	N/A	N/A	N/A	N/A	[Owner Furnished] REQUIRED	N/A	N/A	N/A	
ASSEMBLY COMPONENT FOR ITEM ABOVE	CF-CI	CONCRETE FOOTING	N/A	Concrete Footing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
ST-02	OF-CI	BENCH SWINGS	[Owner Furnished] Landscape Forms Studio 431 7800 E. Michigan Ave Kalamazoo, MI 49048 Contact: Jennifer Woods P. 800-430-6206 x 1336 jennferw@landscapeforms.com	Steel Frame	2-Bay Austin Cantilever Structure with Perforated Metal Roof	Per Manufacturer 19' L	N/A	N/A	N/A	N/A	N/A	N/A	L-X	X	
ASSEMBLY COMPONENT FOR ITEM ABOVE	CF-CI	CONCRETE FOOTING	N/A	Concrete Footing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
WALLS															
CODE		COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET	DETAIL	
REFER TO CIVIL	CF-CI	RETAINING WALL	REFER TO CIVIL	MODULAR BLOCK MSE RETAINING WALLS	REFER TO CIVIL	SEE DETAIL(S)	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REQUIRED	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	
CURBS															
CODE		COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET	DETAIL	
CB-01	CF-CI	RAISED CONCRETE CURB	N/A	CIP Concrete Barrier Curb w/ Rebar Reinforcement	N/A	SEE DETAIL(S)	N/A	Light Broom	Caulked Snap Cap Expansion Joints w/ Saw-cut Control Joints	N/A	N/A	N/A	L503	X	
CB-02	CF-CI	FLUSH CONCRETE CURB	N/A	CIP Concrete Flush Curb w/ Rebar Reinforcement	N/A	SEE DETAIL(S)	N/A	Light Broom	Caulked Snap Cap Expansion Joints w/ Saw-cut Control Joints	N/A	N/A	N/A	L503	X	
PAVING															
CODE		COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET	DETAIL	
PA-01	CF-CI	CONCRETE PAVEMENT	N/A	CIP Concrete w/ Steel Mesh Reinforcement	N/A	5" THK	N/A	Light Broom	Caulked Snap Cap Expansion Joints w/ Saw-cut Control Joints	N/A	N/A	N/A	L503	1	
ASSEMBLY COMPONENT FOR ITEM ABOVE	CF-CI	THICKENED EDGE CONCRETE PAVING	N/A	N/A	N/A	X	N/A	N/A	N/A	N/A	N/A	N/A	L503	X	
PA-02	CF-CI	STABILIZED AGGREGATE PAVING	Kafka Granite 550 East Hwy 153 Mosinee, WI 54455	Stabilized Stone Aggregate Paving	X	3" THK	N/A	N/A	N/A	REQUIRED	N/A	N/A	L503	X	
PA-03	OF-ON	PLAY TURF SURFACING	Forever Lawn 8007 Beeson St Louisville, OH 44641 p. 866.992.7879	Protective Play Surface, Synthetic Turf	Playground Grass	X	X	N/A	X	REQUIRED	REQUIRED	X	L503	X	
ASSEMBLY COMPONENT FOR ITEM ABOVE	CF-CI	SITE PREP: GRADING, SUBBASE, AGGREGATE CONCRETE BASE	N/A	N/A	N/A	N/A	N/A	N/A	X	N/A	N/A	N/A	N/A	N/A	
PA-04	CF-CI	ENGINEERED WOOD FIBER	X	Protective Play Surface, Engineered Wood Fiber	X	12" THK	N/A	N/A	X	N/A	N/A	N/A	L503A	1	
SW-01	CF-CI	SENSORY WALK TYPE 1	N/A	X	X	12" THK	X	N/A	'Advanced' Sensory Walk.	REQUIRED	REQUIRED	REQUIRED	L-X	X	
SW-02	CF-CI	SENSORY WALK TYPE 2	N/A	X	X	12" THK	X	N/A	'Intermediate' Sensory Walk.	REQUIRED	REQUIRED	REQUIRED	L-X	X	
PM-01	CF-CI	PAINTED WALK	X	Pavement Markings	StreetBond SB 150AL with primer	SEE DETAIL(S)	SW 6939 - Turquoise SW 6921 - Electric Lime SW 6839 Kimono Violet SW 6926 - Lucky Green	N/A	'Beginner' Sensory Walk.	N/A	REQUIRED	REQUIRED	L-X	X	
REFER TO CIVIL	CF-CI	ADA TACTILE WARNING TILES	REFER TO CIVIL	Tactile Warning Surfacing	REFER TO CIVIL	2' x 5'	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	
REFER TO CIVIL	CF-CI	POROUS ASPHALTIC PAVEMENT	REFER TO CIVIL	POROUS ASPHALTIC PAVEMENT	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	
DECKING															
CODE		COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET	DETAIL	
DK-01	CF-CI	NATURE PLAY WOOD PLATFORM	N/A	Wood Decking and Framing, Robinia	N/A	SEE DETAIL(S)	N/A	N/A	N/A	N/A	REQUIRED	N/A	L504A	X	
WOOD EDGING															
CODE		COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET	DETAIL	
WE-01	CF-CI	WOOD LOG EDGE TYPE 1	N/A	Robina Wood Log	N/A	SEE DETAIL(S)	N/A	N/A	Vertical Log	N/A	REQUIRED	N/A	L504A	X	
WE-02	CF-CI	WOOD LOG EDGE TYPE 2	N/A	Robina Wood Log	N/A	SEE DETAIL(S)	N/A	N/A	Horizontal Log	N/A	REQUIRED	N/A	L504A	X	
FENCES															
CODE		COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET	DETAIL	
REFER TO CIVIL	CF-CI	8' HT CHAIN LINK	N/A	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	Black	Yinyl Coating	N/A	N/A	N/A	N/A	REFER TO CIVIL	REFER TO CIVIL	
GATES															
CODE		COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET	DETAIL	
REFER TO CIVIL	CF-CI	ACCESS GATE (SWING)	N/A	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	Black	Yinyl Coating	N/A	N/A	N/A	N/A	REFER TO CIVIL	REFER TO CIVIL	
HANDRAILS															
CODE		COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET	DETAIL	
HR-01	CF-CI	SENSORY WALK HANDRAIL	N/A	Stainless Steel Pipe Handrail	N/A	1.5" OD PIPE	N/A	X	N/A	N/A	Required	N/A	L-X	X	
ASSEMBLY COMPONENT FOR ITEM ABOVE	CF-CI	CONCRETE FOOTING	N/A	Concrete Footing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
NATURAL STONE															
CODE		COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET	DETAIL	
NS-01	OF-CI	BOULDERS	OWNER PROVIDED	N/A	N/A	N/A	N/A	N/A	Coordinate and install owner provided boulders	N/A	N/A	N/A	L503A	N/A	
NS-02	OF-CI	STONE STEPPERS	OWNER PROVIDED	N/A	N/A	N/A	N/A	N/A	Coordinate and install owner provided stone steppers	N/A	N/A	N/A	L503A	N/A	

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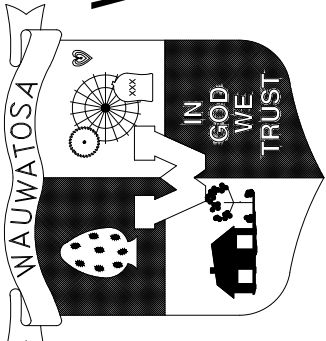
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DESCRIPTION

DATE

CITY OF WAUWATOSA



ENGINEERING SERVICES DIVISION

CONTRACT:

FILE NO:

DRAWN BY:

CHECKED BY:

SCALE:

9509

DN

BK

L603

HARDSCAPE SCHEDULE

1700 N 116TH STREET

WAUWATOSA, WI 53226

PLAY EQUIPMENT															
CODE	UNIT	FURNISH/INSTALL SCOPE	COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET	DETAIL
PG-01	LS	OF-CI	PLAYGROUND EQUIPMENT	[Owner Furnished] Gerber Leisure Products, Inc. Contact: Meghan Barrett p. 608-514-6323 meghan@gerberleisure.com	N/A	Landscape Structures, Inc. Freestanding System Project ID: 23091802	See LSI Drawing #23092802-02	N/A	N/A	Owner Furnished, Contractor Installed	N/A	N/A	N/A	L504C	(for reference only)
ASSEMBLY COMPONENT FOR ITEM ABOVE		CF-CI	CONCRETE FOOTINGS	N/A	Concrete Footing	N/A	Per Manufacturer	N/A	N/A	N/A	N/A	N/A	N/A	L504B	3
SIGNAGE															
CODE	UNIT		COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET	DETAIL
REFER TO CIVIL	EA	CF-CI	GENERAL SIGNAGE	N/A	ALUMINUM PANEL SIGN, PAINT AND VINYL GRAPHICS,	N/A	N/A	N/A	N/A	PROVIDE AND INSTALL SIGNS WHERE SHOWN ON PLANS INCLUDING ADA. FURNISH AND INSTALL POSTS, SIGNS, FOOTINGS, INCLUDING HARDWARE	N/A	REQUIRED	N/A	REFER TO CIVIL	
MS-1	EA		ENTRY SIGN	X	PRECAST CONCRETE WALL WITH CUSTOM METAL FABRICATED SIGNAGE	N/A	16' L x 1'-1" W x 4' H	N/A	N/A	X	REQUIRED	REQUIRED	N/A	L503D L503E	ALL
ASSEMBLY COMPONENT FOR ITEM ABOVE		CF-CI	CONCRETE FOOTING	N/A	Concrete Footing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503E	1
BIKE RACKS															
CODE	UNIT		COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET	DETAIL
BR-01	EA	OF-OI	BIKE RACKS	[Owner Furnished] Wadax Graber Manufacturing, Inc. Waunakee, WI 53597	Powder Coated Steel	3 Hoop on Rail U190-6-P	21" W x 36" H x 66" L	Patriot Blue	Powder Coat	Surface Mount	N/A	N/A	N/A	N/A	N/A
ASSEMBLY COMPONENT FOR ITEM ABOVE		CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1
FURNITURE															
CODE	UNIT		COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET	DETAIL
BN-01	EA	OF-CI	BENCH TYPE 1	[Owner Furnished] Wausau Tile P.O. BOX 1520 Wausau, WI 64402 www.wausautile.com	Precast Concrete	TF5117	48" L, 18" W, 18" HT,	N/A	N/A	Surface Mount	N/A	N/A	N/A	N/A	N/A
ASSEMBLY COMPONENT FOR ITEM ABOVE		CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1
BN-02	EA	OF-OI	BENCH TYPE 2	[Owner Furnished] Thomas Steele Division of Graber Manufacturing, Inc. 1080 Uniek Drive, Waunakee, WI 53597 P. 800.241.2505, F. 608.849.1081	Steel Frame Recycled Plastic Slats	6 Ft Walden Circle Arm Bench	76" L x 31" H x 24" W	Walnut (Slats) Storm Metallic (Frame)	Powder Coated	Surface Mount	N/A	N/A	N/A	N/A	N/A
ASSEMBLY COMPONENT FOR ITEM ABOVE		CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1
BN-03	EA	OF-CI	BENCH TYPE 3	[Owner Furnished] Wausau Tile P.O. BOX 1520 Wausau, WI 64402 www.wausautile.com	Precast Concrete	TF5116	Arc: Total Length 73-1/2"; 18" Seat Width 18" HT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASSEMBLY COMPONENT FOR ITEM ABOVE		CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1
TB-01	EA	OF-OI	PICNIC TABLE- TYPE 1	[Owner Furnished] Wausau Tile P.O. BOX 1520 Wausau, WI 64402 www.wausautile.com	Precast Concrete	TF3128	66" L x 64" W x 30" H	Darkest Gray A38y	Standard Ground and Polish Top and Bench, Acid Wash Legs	N/A	N/A	N/A	N/A	N/A	N/A
ASSEMBLY COMPONENT FOR ITEM ABOVE		CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1
TB-02	EA	OF-OI	PICNIC TABLE- TYPE 2	[Owner Furnished] Wausau Tile P.O. BOX 1520 Wausau, WI 64402 www.wausautile.com	Precast Concrete	TF3125	66" DIA x 30" H	Darkest Gray A38y	Standard Ground and Polish Top and Bench, Acid Wash Legs	N/A	N/A	N/A	N/A	N/A	N/A
ASSEMBLY COMPONENT FOR ITEM ABOVE		CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1
TB-03	EA	OF-OI	PICNIC TABLE- TYPE 3	[Owner Furnished] Kay Park Recreation 1301 Pine St. Janesville, IA 50647 P. 866.741.8266	Galvanized Steel Pipe Frame Composite Slats	J2 Series	8' L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASSEMBLY COMPONENT FOR ITEM ABOVE		CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1
TB-04	EA	OF-OI	GAME TABLE	[Owner Furnished] Wausau Tile P.O. BOX 1520 Wausau, WI 64402 www.wausautile.com	Precast Concrete	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASSEMBLY COMPONENT FOR ITEM ABOVE		CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1
TR-01	EA	OF-OI	MESH TRASH RECEPTACLES	[Owner Furnished] Kay Park Recreation 1301 Pine St. Janesville, IA 50647 P. 866.741.8266	Steel Mesh	52 Gallon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASSEMBLY COMPONENT FOR ITEM ABOVE		CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1
TR-02	EA	OF-OI	TRASH RECEPTACLES, TYPE 1	[Owner Furnished] Max-R W248 N5499 Executive Drive Sussex, WI 53089 P. 855.204.3560	HDPE Recycled Plastic	Infinity Round Rivited	55 Gallon	Black	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASSEMBLY COMPONENT FOR ITEM ABOVE		CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1
TR-03	EA	OF-OI	RECYCLING RECEPTACLE	[Owner Furnished] Max-R W248 N5499 Executive Drive Sussex, WI 53089 P. 855.204.3560	HDPE Recycled Plastic	Infinity Round Rivited	N/A	Blue	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASSEMBLY COMPONENT FOR ITEM ABOVE		CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1
CR-01	EA	OF-OI	HOT COAL RECEPTACLE	[Owner Furnished] Kay Park Recreation 1301 Pine St. Janesville, IA 50647 P. 866.741.8266	Precast Concrete	Concrete Hot Ash Receptacle SKU: CHAR2235	22" x 22" x 35" H	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASSEMBLY COMPONENT FOR ITEM ABOVE		CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1

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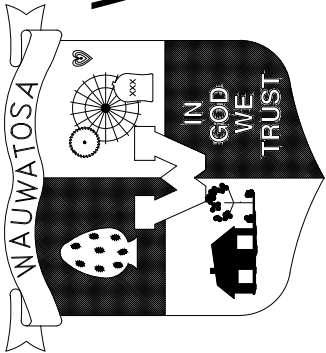
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SCALE:

CITY OF WAUWATOSA
ENGINEERING SERVICES DIVISION



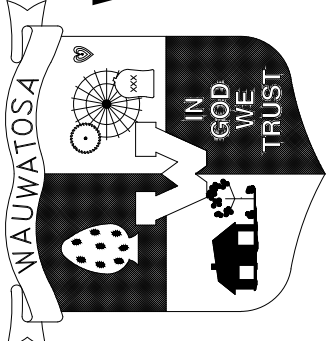


SITE FURNISHINGS SCHEDULE
1700 N 116TH STREET
WAUWATOSA, WI 53226

L604

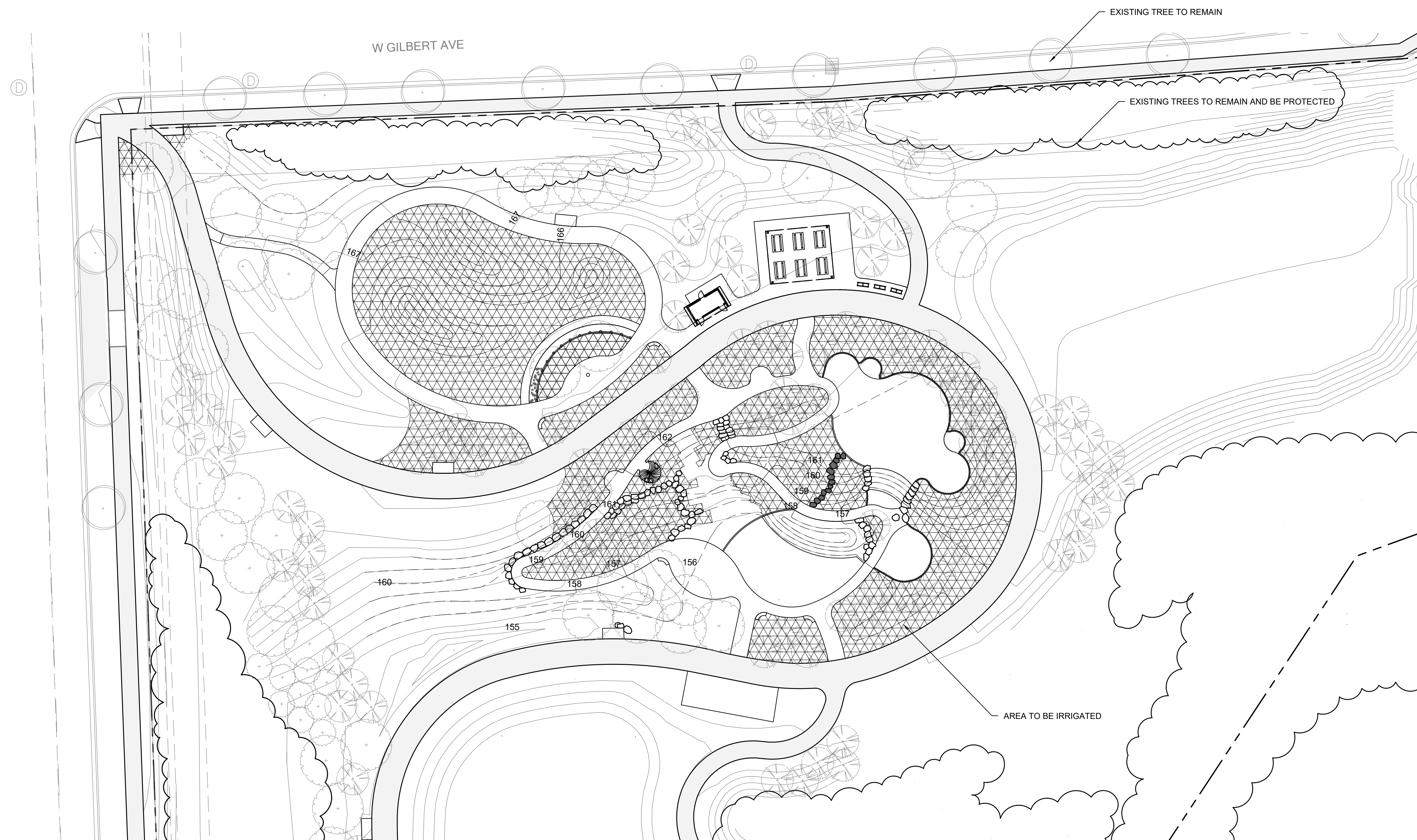
Code	Nursery	Trees	Common Name	Mature Size	Purchase Size	Quantity	Unit Price	Total
SHADE TREES								
CE.OC	Johnson's	<i>Celtis occidentalis</i>	Common Hackberry	40' ht x 60' spread	#5 container	6	\$ 99.00	\$ 594.00
FA.GR	Johnson's	<i>Fagus granifolia</i>	American Beech	60' ht x 55' spread	1.5"	7	\$ 285.00	\$ 1,995.00
LI.TU	Wayside	<i>Liriodendron tulipifera</i>	Tulip Tree	80' ht x 45' spread	1.75"	8	\$ 195.00	\$ 1,560.00
PO.GR	Johnson's	<i>Populus grandidentata</i>	Big-tooth Aspen	60' ht x 14' spread	#5 container	13	\$ 45.00	\$ 585.00
QU.BI	Johnson's	<i>Quercus bicolor</i>	Swamp White Oak	75' ht x 65' spread	#25 container	5	\$ 195.00	\$ 975.00
QU.MA	Johnson's	<i>Quercus macrocarpa</i>	Bur Oak	60' ht x 60' spread	#25 container	13	\$ 195.00	\$ 2,535.00
						52		\$ 15,047.00
ORNAMENTAL TREES								
AM.AU		<i>Amelanchier x grandiflora</i> 'Autumn Brilliance'	Autumn Brilliance Serviceberry	15' ht x 25' spread	#5 container	18		
BE.CU	Wayside	<i>Betula nigra</i> 'Cully'	Heritage River Birch	40' tall x 40' wide (multi-stem)	6'	5	\$ 144.00	\$ 720.00
CA.CA	Wayside	<i>Carpinus caroliniana</i>	Musclewood	25' ht x 25' spread	2"	18	\$ 215.00	\$ 3,870.00
CA.SP	Wayside	<i>Catalpa speciosa</i>	Northern Catalpa	40' ht x 30' spread	1.75"	13	\$ 150.00	\$ 1,950.00
CE.CA	Wayside	<i>Cercis canadensis</i>	Redbud	20' ht x 25' spread (multi-stem)	6'	9	\$ 192.00	\$ 1,728.00
CE.JA	Wayside	<i>Cercidiphyllum japonicum</i>	Katsura Tree	50' ht x 20' spread	1.75"	5	\$ 199.00	\$ 995.00
CO.AL	Wayside	<i>Cornus alternifolia</i>	Pagoda Dogwood	15'ht x 15' spread	4'	16	\$ 92.00	\$ 1,472.00
CO.MA	Wayside	<i>Cornus mas</i>	Corneliancherry Dogwood	20' ht x 15' spread (tree-form)	1.75"	20	\$ 167.00	\$ 3,340.00
CR.CR		<i>Crataegus crus-galli</i>	Cockspur Hawthorn	20-30' ht x 25-35' spread	#5 container	6	\$ 108.00	\$ 648.00
MA.BU	Wayside	<i>Magnolia</i> 'Butterflies'	Magnolia 'Butterflies'	20' ht x 20' spread	1.75"	7	\$ 230.00	\$ 1,610.00
MA.LE	Wayside	<i>Magnolia</i> 'Leonard Messel'	Magnolia 'Leonard Messell'	15' ht x 20' spread (multi-stem)	5'	9	\$ 180.00	\$ 1,620.00
PO.TR	Wayside	<i>Populus tremuloides</i>	Quaking Aspen	40' ht x 25' spread (multi-stem)	8'	20	\$ 170.00	\$ 3,400.00
						128		\$ 21,353.00
EVERGREEN TREES								
JU.CO	Johnson's	<i>Juniper communis</i>	Old Field Common Juniper	4'h x 10' spread	#2 container	50	\$ 27.00	\$ 1,350.00
JU.VI	Johnson's	<i>Juniperus virginiana</i>	Eastern Redcedar	30-40'ht x 8-20' spread	#5 container	56	\$ 50.00	\$ 2,800.00
LA.LA	Johnson's	<i>Larix laricina</i>	Tamarack	30-50' ht x 10-15' spread	#10 container	28	\$ 93.00	\$ 2,604.00
ME.GL	Wayside	<i>Metasequoia glyptostroboides</i>	Dawn Redwood	75' ht x 15-25' spread	2"	4	\$ 170.00	\$ 680.00
PI.AB	Wayside	<i>Picea abies</i>	Norway Spruce		6'	50	\$ 250.00	\$ 12,500.00
TH.ST	Wayside	<i>Thuja plicata</i> 'Standishii'	Green Giant Arborvitae	60' ht x 12-20' spread	5'	34	\$ 160.00	\$ 5,440.00
						222		\$ 15,047.00
SHRUBS								
CE.AM	Midwest	<i>Ceanothus americanus</i>	New Jersey Tea	2-3' ht x 4' spread	#3 container	40	\$ 19.75	\$ 790.00
CO.SE	Midwest	<i>Cornus sericea</i>	Red osier Dogwood	6' ht x 6' spread	#5 container	18	\$ 19.25	\$ 346.50
DI.G2	Midwest	<i>Diervilla</i> x 'G2X88544'	Kodiak Orange Diervilla	4' ht x 4' spread	#3 container	65	\$21.75	\$ 1,413.75
DI.JE	Johnson's	<i>Diervilla lonicera</i> 'Jewell'	Jewel Honeysuckle	4' ht x 4' spread	#2 container	77	\$ 17.00	\$ 1,309.00
DI.SM	Midwest	<i>Diervilla rivularis</i> 'SMNDRSF'	Kodiak Black Diervilla	4' ht x 4' spread	#3 container	26	\$21.75	\$ 565.50
FO.NI	Midwest	<i>Forsythia</i> x 'NIMBUS'	Sugar Baby Forsythia	24" ht x 4' spread	#3 container	62	\$ 21.75	\$ 1,348.50
HA.VI	Midwest	<i>Hamamelis virginiana</i>	Common Witchhazel	12' ht x 12' spread	#5 container	24	\$ 29.50	\$ 708.00
PH.PO	Midwest	<i>Physocarpus opulifolius</i> 'Podaras 3'	Lemon Candy Ninebark	2.5' ht x 3' spread	#5 container	40	\$ 25.50	\$ 1,020.00
RH.BA	Midwest	<i>Rhus typhina</i> 'Bailtiger'	Tiger Eye Sumac	10'ht x 10' spread	#5 container	9	\$ 25.50	\$ 229.50
RH.TY	Midwest	<i>Rhus typhina</i>	Staghorn Sumac	12' ht x 20' spread	#5 container	80	\$ 24.25	\$ 1,940.00
SP.CO	Wayside	<i>Spiraea betulifolia</i> 'COURISPI01'	Pink Sparkler Spirea	4' ht x 4' spread	18"	43	\$ 21.00	\$ 903.00
SY.BL	Midwest	<i>Syringa</i> x 'Bloomerang Lilac'	Bloomerang Lilac dark purple	4' ht x 4' spread	#3 container	11	\$ 22.50	\$ 247.50
						495		\$ 10,821.25
FORBS								
AL.SU	Radtke	<i>Allium</i> 'Summer Beauty'	Summer Beauty Allium	18"ht x 12" spread	#1 container	57	\$ 7.25	\$ 413.25
AM.CA	Radtke	<i>Amorpha canescens</i>	Lead Plant	3'ht x 4' spread	quart	21	\$ 6.25	\$ 131.25
AS.TU	Radtke	<i>Asclepias tuberosa</i>	Butterfly Weed	2'ht x 12" spread	#1 container	69	\$ 7.50	\$ 517.50
BA.TW	Radtke	<i>Baptisia x varicolor</i> 'Twilite'	Twilite Prairieblues Baptisia	24" ht x 4' spread	#1 container	34	\$ 10.50	\$ 357.00
BA.VA	Radtke	<i>Baptisia Decadence</i> 'Vanilla Cream'	Baptisia Vanilla Cream	24" ht x 4' spread	#1 container	19	\$ 14.00	\$ 266.00
CA.MO	Radtke	<i>Calamintha nepeta</i> 'Montrose White'	Montrose White Catmint	18"ht x 24" spread	#1 container	82	\$ 6.50	\$ 533.00
EU.BA	Radtke	<i>Eupatorium dubium</i> 'Baby Joe'	Baby Joe-pye Weed	2'ht x 2' spread	quart	36	\$ 4.00	\$ 144.00
HE.BE	Radtke	<i>Heemerocallis</i> 'Bela Lugosi' (sub)	Bela Lugosi Daylily (sub)	28" ht x 1.5' spread	#1 container	71	\$ 10.00	\$ 710.00
HE.HY	Radtke	<i>Heemerocallis</i> 'Hyperion'	Hyperion Daylily	3' ht x 1.5' spread	#1 container	74	\$ 7.50	\$ 555.00
HI.CR	Midwest	<i>Hibiscus Summerific</i> 'Cranberry Crush'	Cranberry Crush Hibiscus	3' ht x 4' spread	#2 container	7	\$ 13.95	\$ 97.65
RU.LI	Radtke	<i>Rudbeckia fulgida</i> var. <i>sullivantii</i> 'Little Goldstar'	Little Goldstar Black-eyed Susan	14" x 14"	#1 container	107	\$ 10.00	\$ 1,070.00
SA.CA	Radtke	<i>Salvia nemerosa</i> 'Caradonna'	Caradonna Salvia	24" ht x 24" spread	#1 container	67	\$ 6.50	\$ 435.50
SA.MA	Radtke	<i>Salvia nemerosa</i> 'Mainacht'	May Night Salvia	18" ht x 24" spread	#1 container	35	\$ 6.50	\$ 227.50
ST.HU	Radtke	<i>Stachys monieri</i> 'Hummelo'	Hummelo Lamb's Ear	20" ht x 20" spread	#1 container	51	\$ 6.50	\$ 331.50
						730		\$ 5,789.15
GRASSES								
AN.GE	Radtke	<i>Andropogon gerardii</i>	Big Bluestem	4' ht x 24" spread	#1 container	91	\$ 6.25	\$ 568.75
CH.LA	Radtke	<i>Chasmanthium latifolium</i>	Northern Sea Oats	30" ht x 12" spread	#1 container	47	\$ 6.25	\$ 293.75
PA.SH	Radtke	<i>Panicum virgatum</i> 'Shenandoah'	Shenandoah Switch Grass	4' ht x 2' spread	#1 container	61	\$ 9.50	\$ 579.50
SC.SC	Radtke	<i>Schizachyrium scoparium</i>	Little Bluestem	2' ht x 12" spread	#1 container	163	\$ 7.00	\$ 1,141.00
SE.AU	Radtke	<i>Sesleria autumnalis</i>	Autumn Moor Grass	3' ht x2' spread	#1 container	117	\$ 9.50	\$ 1,111.50
						479		\$ 3,694.50
SEED MIXES								
		<i>Lawn Turf</i>			SF	109100		
	Agrecol	<i>Low Prairie Seed Mix</i>			SF	51,800		
		<i>No Mow Turf</i>			SF	55900		
	Agrecol	<i>Basin Seed Mix</i>			SF	13600		
	Agrecol	<i>Emergent Slope Mix</i>			SF	12,600		
		<i>Mulch area/planting bed</i>			SF	16170		

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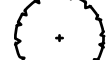




CITY OF WAUWATOSA		ENGINEERING SERVICES DIVISION	
			
THE SIGMA GROUP		site	

PLANTING SCHEDULE	1700 N 116TH STREET WAUWATOSA, WI 53226
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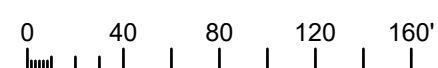
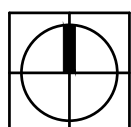
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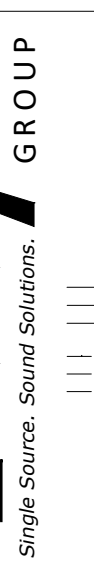



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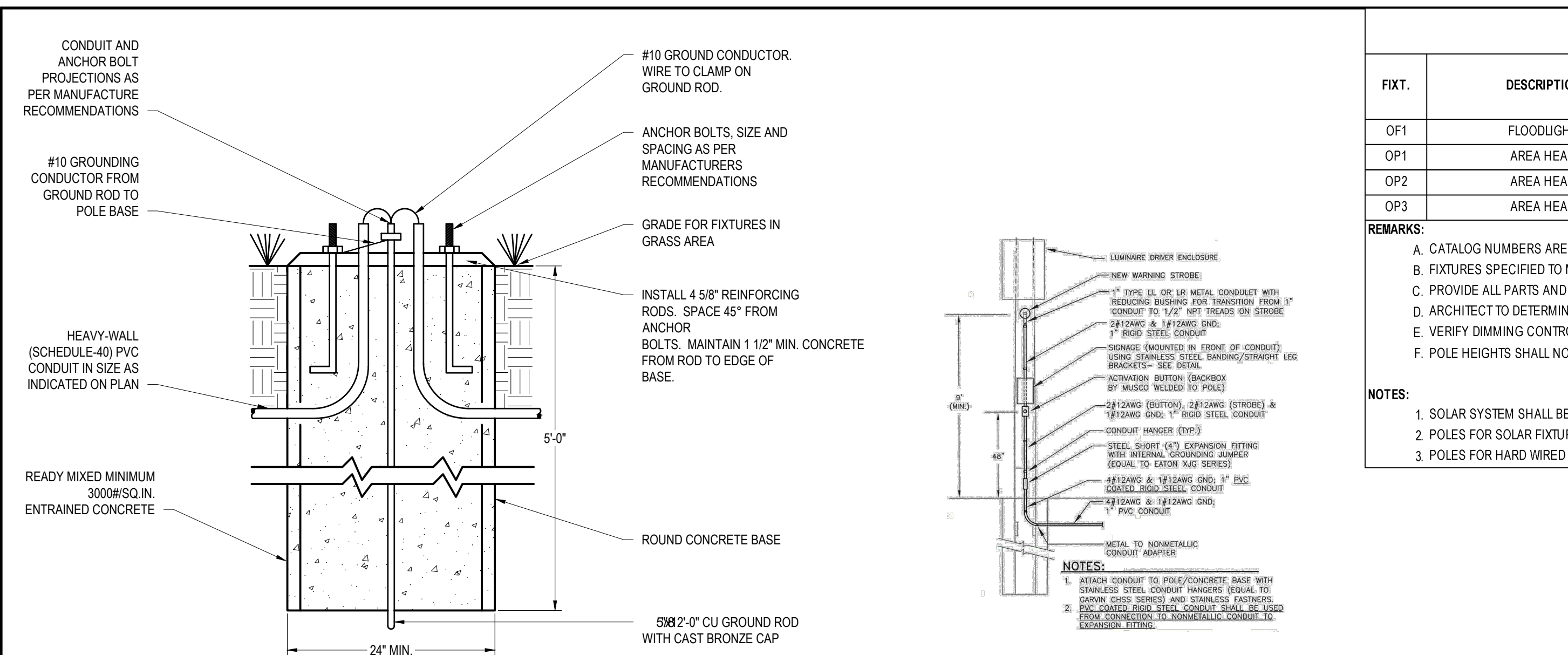
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|---|--|
|  | PROPERTY LINE |
|  | AREA TO BE IRRIGATED |
|  | SHADE TREE |
|  | ORNAMENTAL TREE |
|  | EVERGREEN TREE |
|  | EXISTING TREES TO REMAIN
AND BE PROTECTED |
|  | EXISTING TREE TO REMAIN |

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



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

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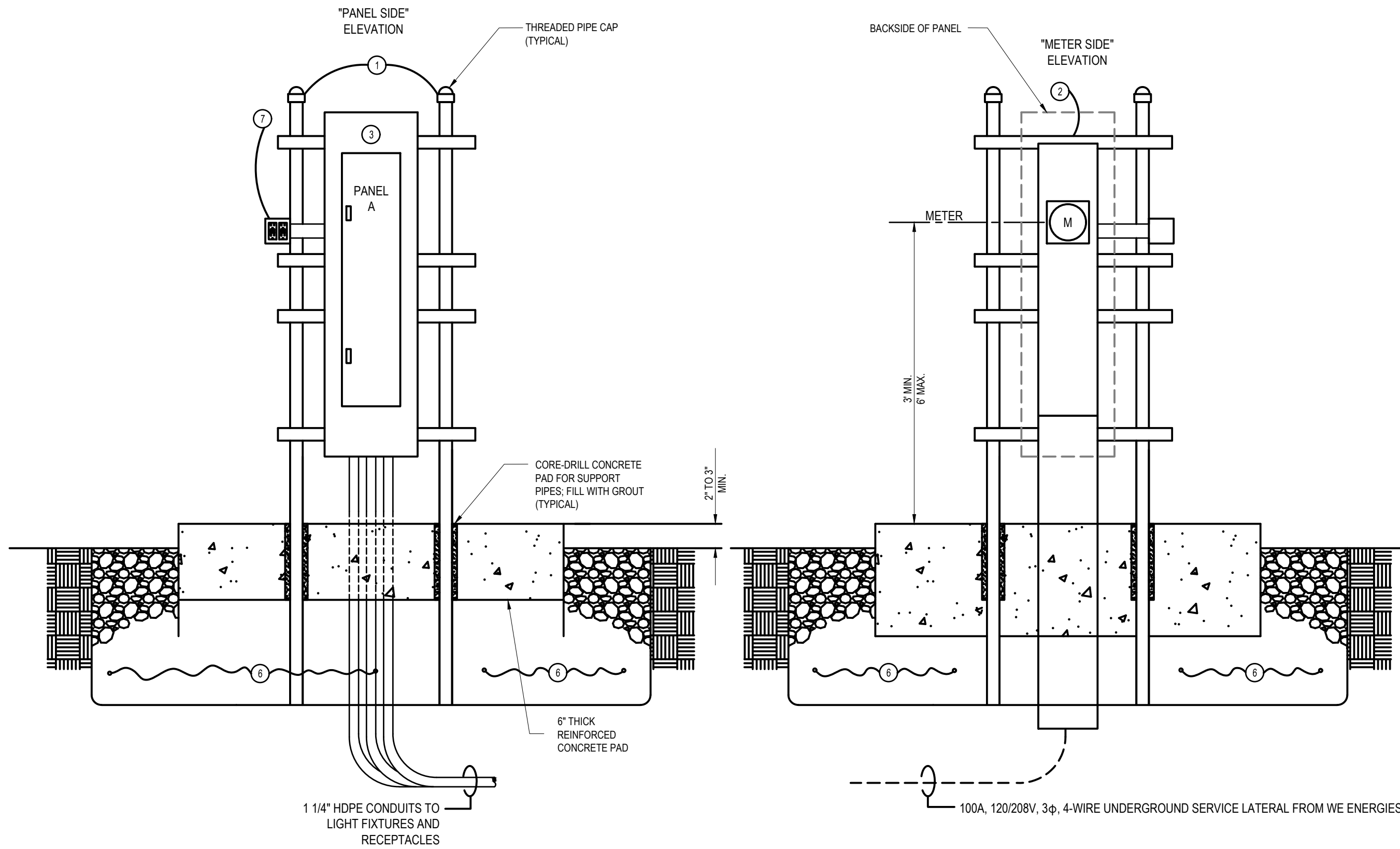
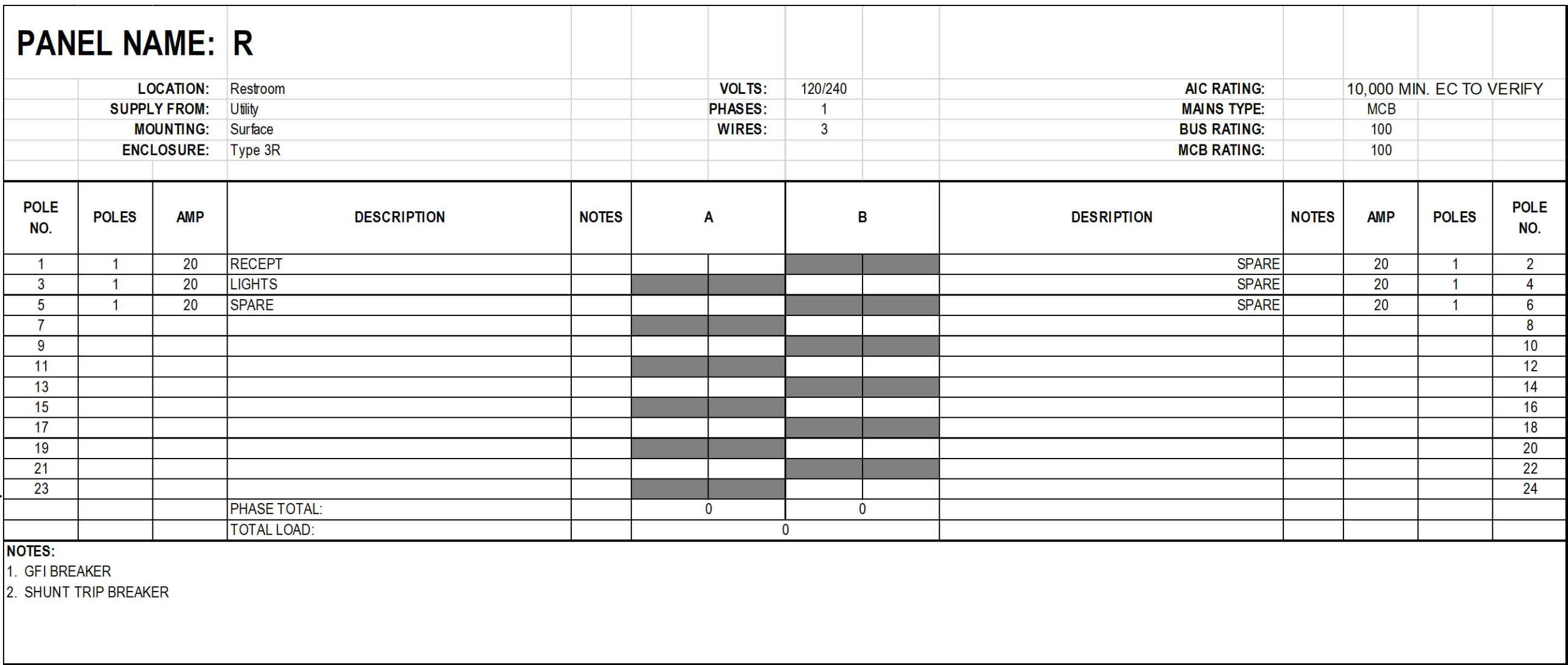
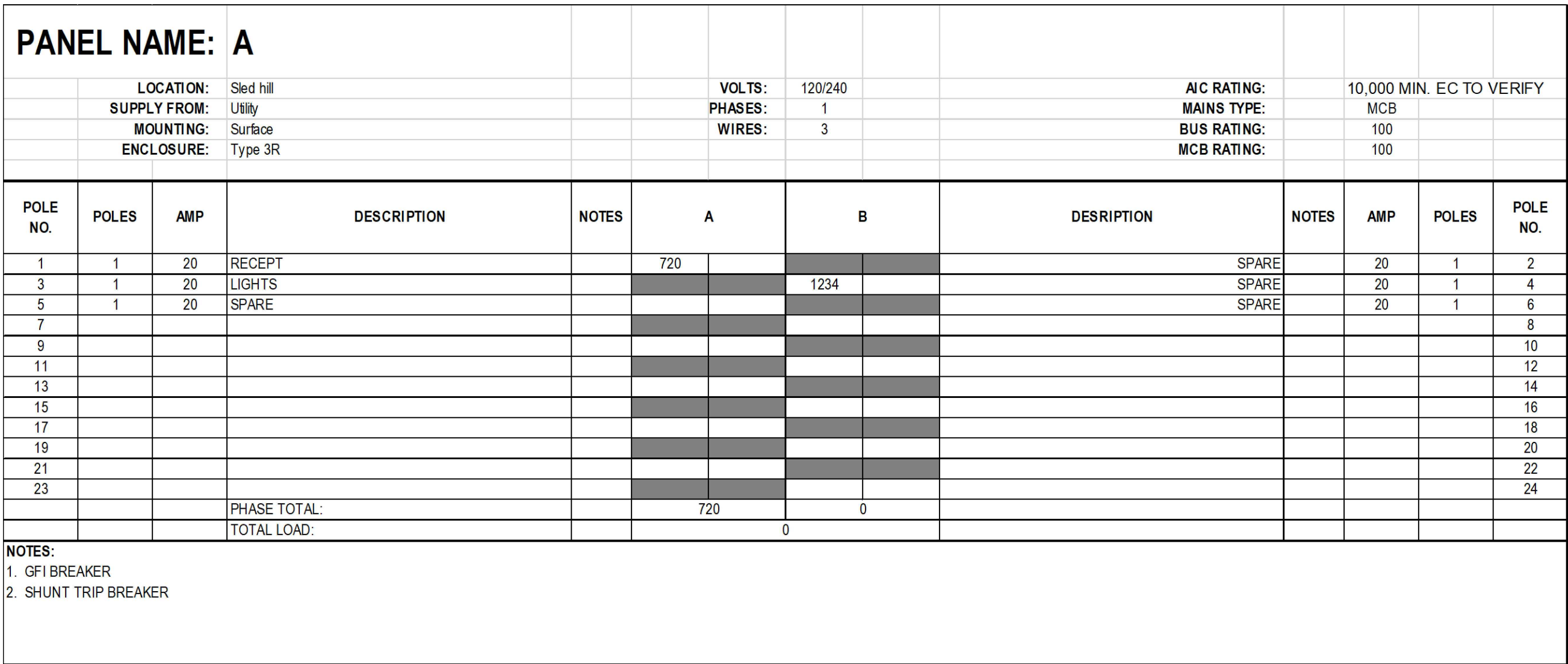
LIGHTING FIXTURE SCHEDULE

FIXT.	DESCRIPTION	TYPE	INPUT	VOLT	MANUFACTURER	CATALOG NUMBER	MOUNTING	SEE NOTE
			W					
OF1	FLOODLIGHT	18,000 LUMEN, 3000K	170W	120V	LITHONIA	DSXF3 LED-6-P2-30K-70CRI-MSP-[VOLTAGE]-[MOUNTING]-[OPTIONS]-DBLXD	POLE	3
OP1	AREA HEAD	3700 LUMEN, 3000K	22W	SOLAR	SUNNA DESIGN	SL249-1-[LIGHTING PROFILE]-290-RL204-3-120-2-27	POLE	1.2
OP2	AREA HEAD	3700 LUMEN, 3000K	22W	SOLAR	SUNNA DESIGN	SL249-1-[LIGHTING PROFILE]-290-RL204-3-120-2-07	POLE	1.2
OP3	AREA HEAD	33,000 LUMEN, 3000K	277W	120V	LITHONIA	DSX1 LED-P9-30K-70CRI-TM-[VOLTAGE]-[MOUNTING]-[OPTIONS]-DBLXD	POLE	3

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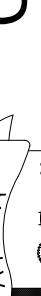
NOTES:

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



ELECTRICAL SERVICE EQUIPMENT

N.T.S.

CITY OF WAUWATOSA		DESCRIPTION
		
ENGINEERING SERVICES DIVISION		



THE SIGMA GROUP
Single Source. Sound Solutions.

ELECTRICAL SCHEDULES

1900 N 116TH STREET
WAUWATOSA, WI 53226

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



ibcengineering
services, inc.
WISCONSIN | ILLINOIS | FLORIDA
IBC PROJECT NO: 2023032

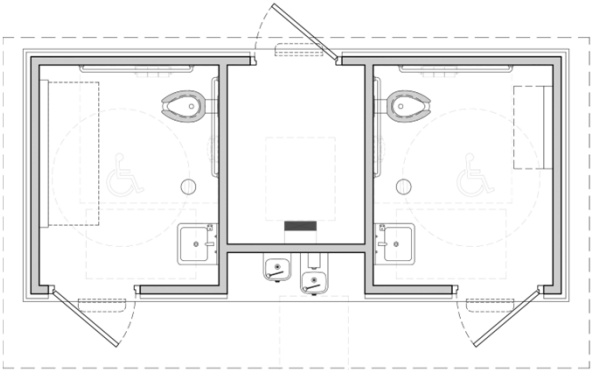
NOT FOR CONSTRUCTION





SkyWays® Single Post Hypar (12'x12') Shade

Model #267724 January 6, 2020



FLOOR PLAN

SCALE: NOT TO SCALE

**COLOR
SCHEME 'A'**

116TH STREET



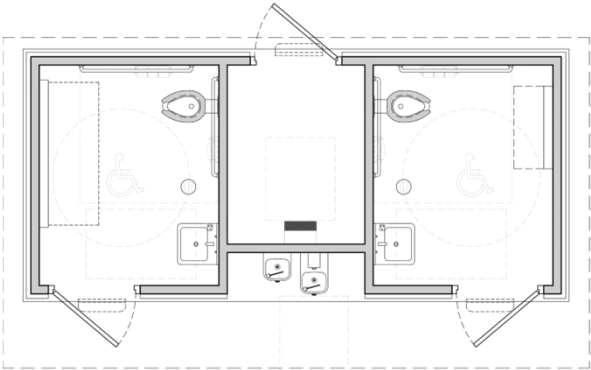
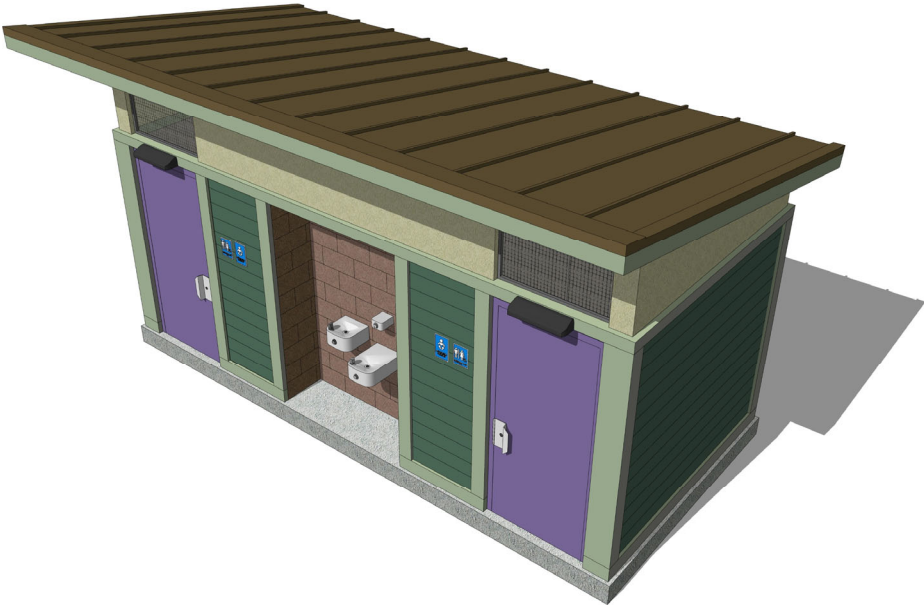
www.PublicRestroomCompany.com

2587 BUSINESS PARKWAY
MINDEN NEVADA 89423
P: 888-888-2060 F: 888-888-1448

WAUWATOSA,
WISCONSIN
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FLOOR PLAN

SCALE: NOT TO SCALE

COLOR
SCHEME 'B'

116TH STREET



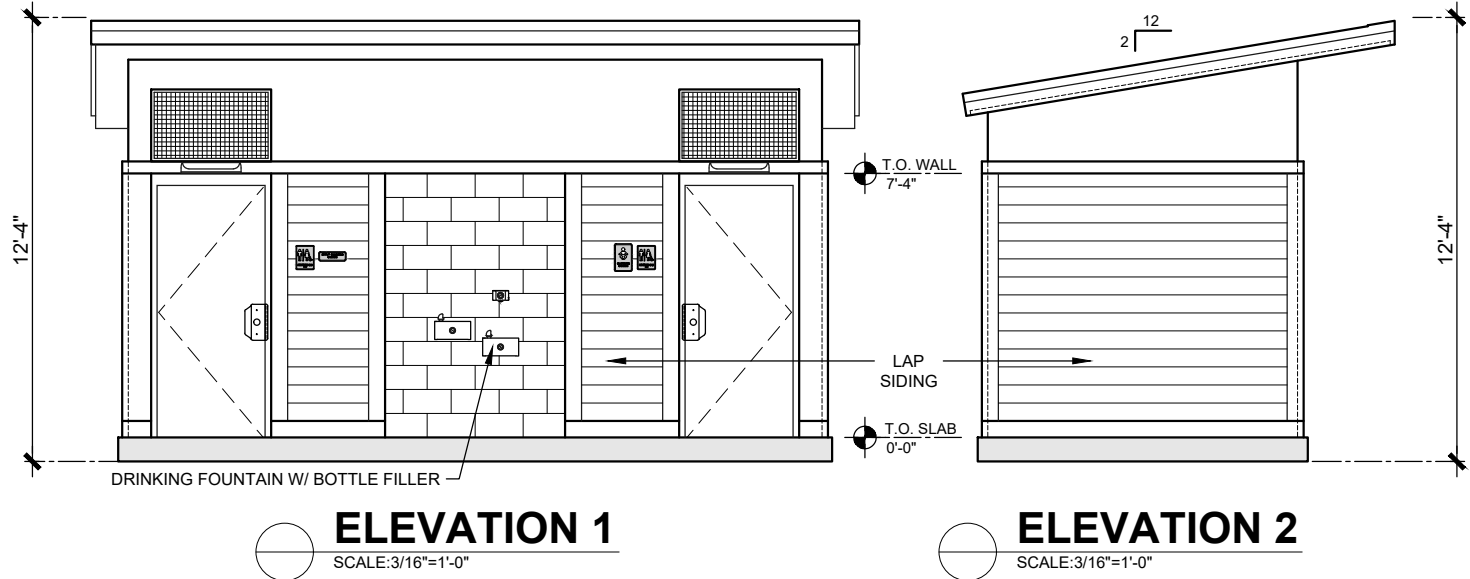
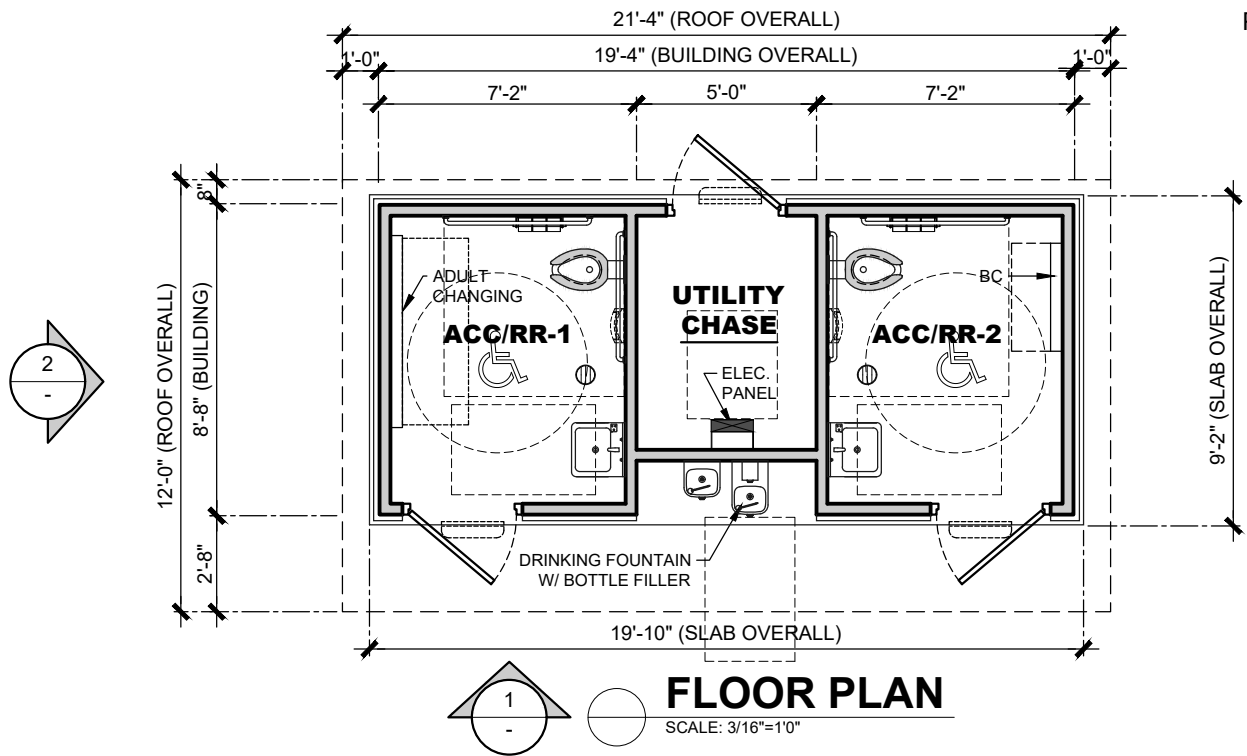
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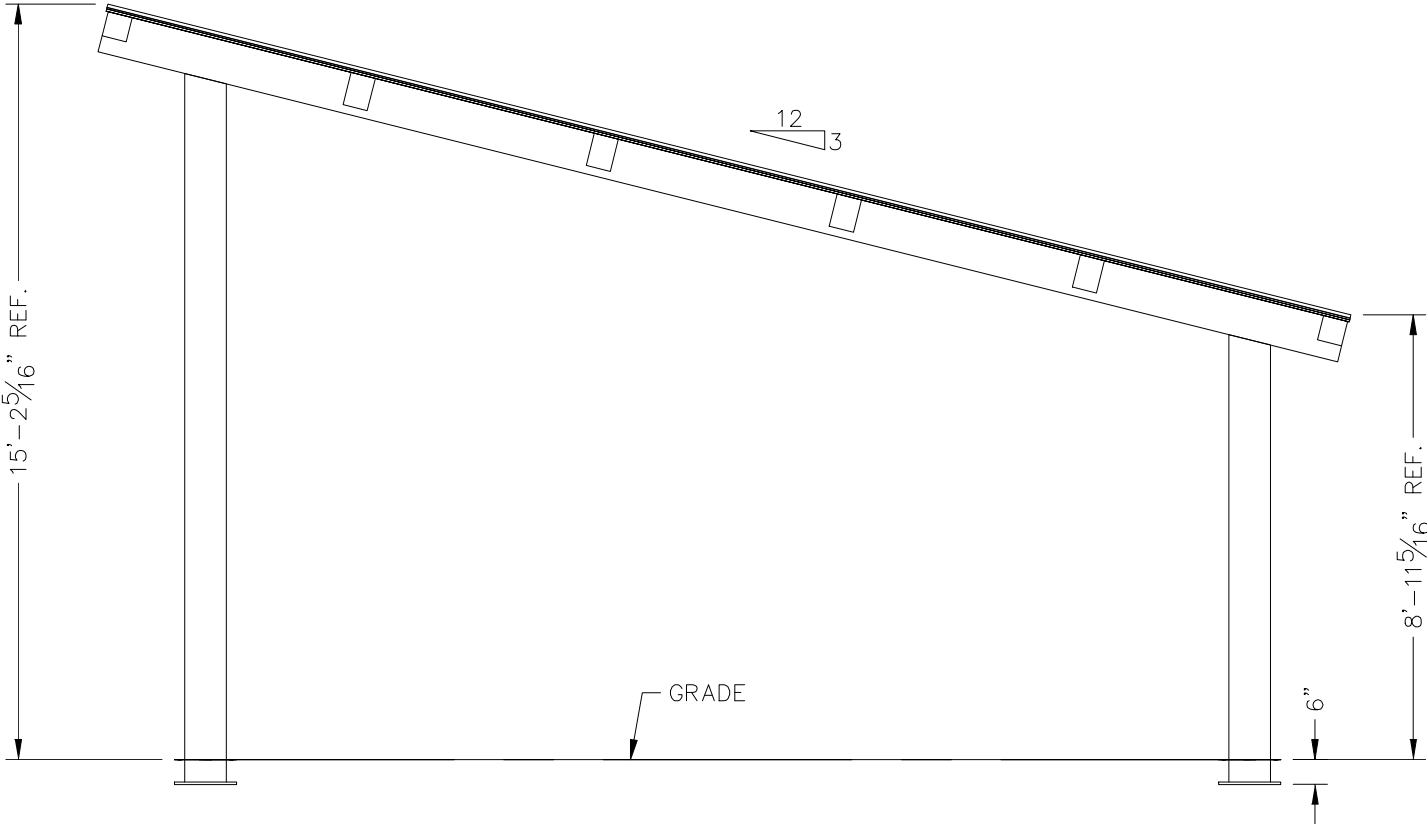
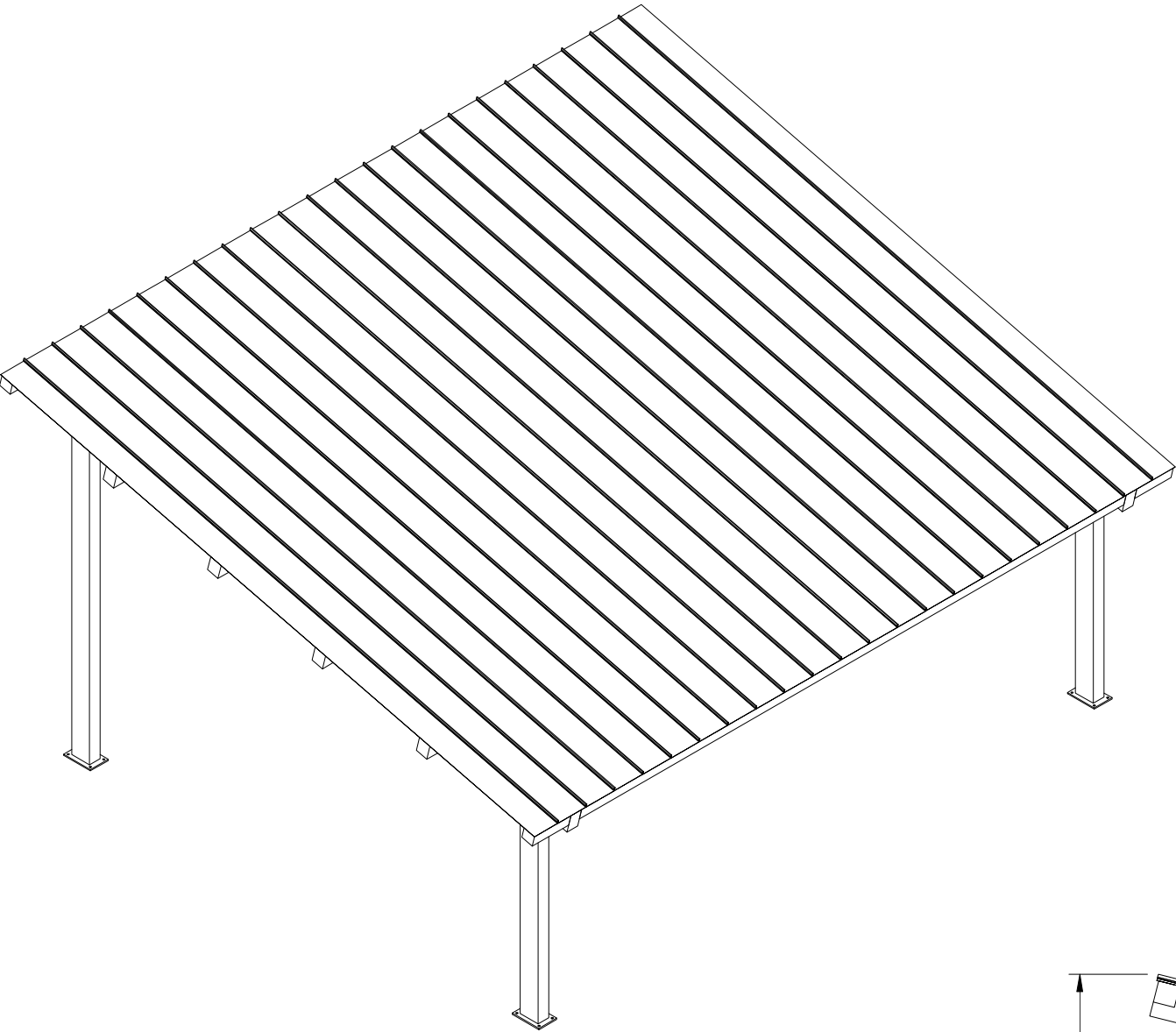
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			PROJECT #: 11551	DRAWN BY: EOR	
				START DATE: 10/24/2023 DRAWN BY: EOR	



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SYSTEMS, INC.
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616.396.0919
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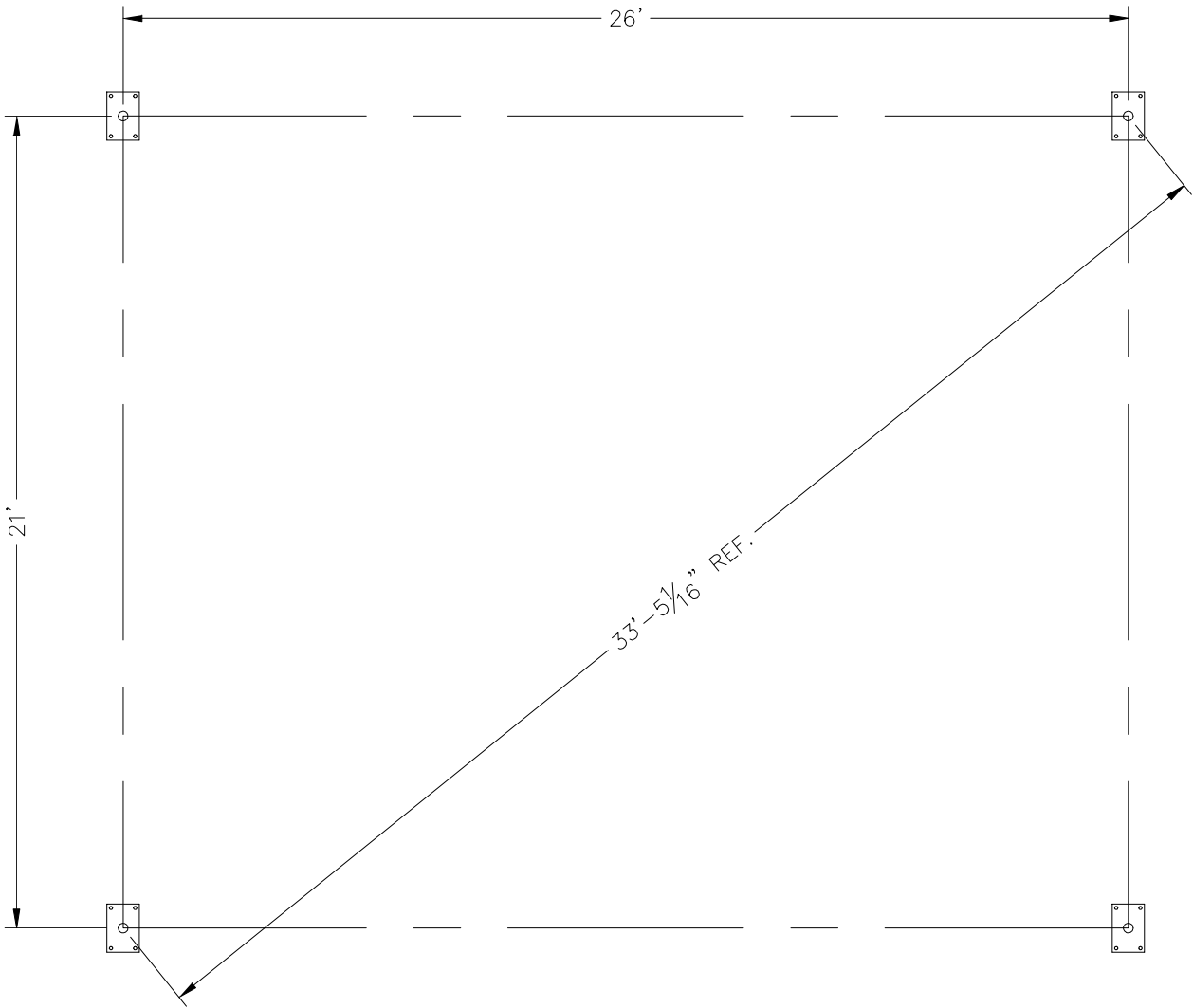
Elevation

DRAWN BY:
MH
DATE:
10/30/2023
PRELIMINARY ID:
81298
REVISION:
A
BUILDING TYPE:
MP25X30S-P3
PROJECT NAME:

SHEET
1062

Engineering\AcadStandards\Blocks\Titles\IC
QF-73-01-42

DWG:ineering\Standards\MP\25X30\S-P3-35-90-11\Drawings\Preliminary\MP25x30S-P3-35-90-11~81298.dwg



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Anchor Bolt Layout

3/4" ANCHOR BOLT
W/ (2) 3/4" NUTS
(4) PLCS

LEVELING NUTS

6" EMBEDMENT

4"

10"

CONCRETE FOOTING
NOT TO SCALE

ACTUAL FOOTING DESIGN
SHOWN ON INSTALLATION
DRAWINGS

PRELIMINARY DRAWINGS SHOWN AS 6" BURIED
STANDARD BASE CONNECTION
COLUMN TYPE: A (6" BURIED)

BASE COVERS
OPTIONAL

3/4" ANCHOR BOLT
W/ 3/4" NUTS (4) PLCS

2 1/2"

11 1/2"

CONCRETE FOOTING
NOT TO SCALE

ACTUAL FOOTING DESIGN
SHOWN ON INSTALLATION
DRAWINGS

OPTIONAL BASE CONNECTION
COLUMN TYPE: B (SURFACE MOUNT W/ COVERS)

DRAWN BY:
MH

DATE:
10/30/2023

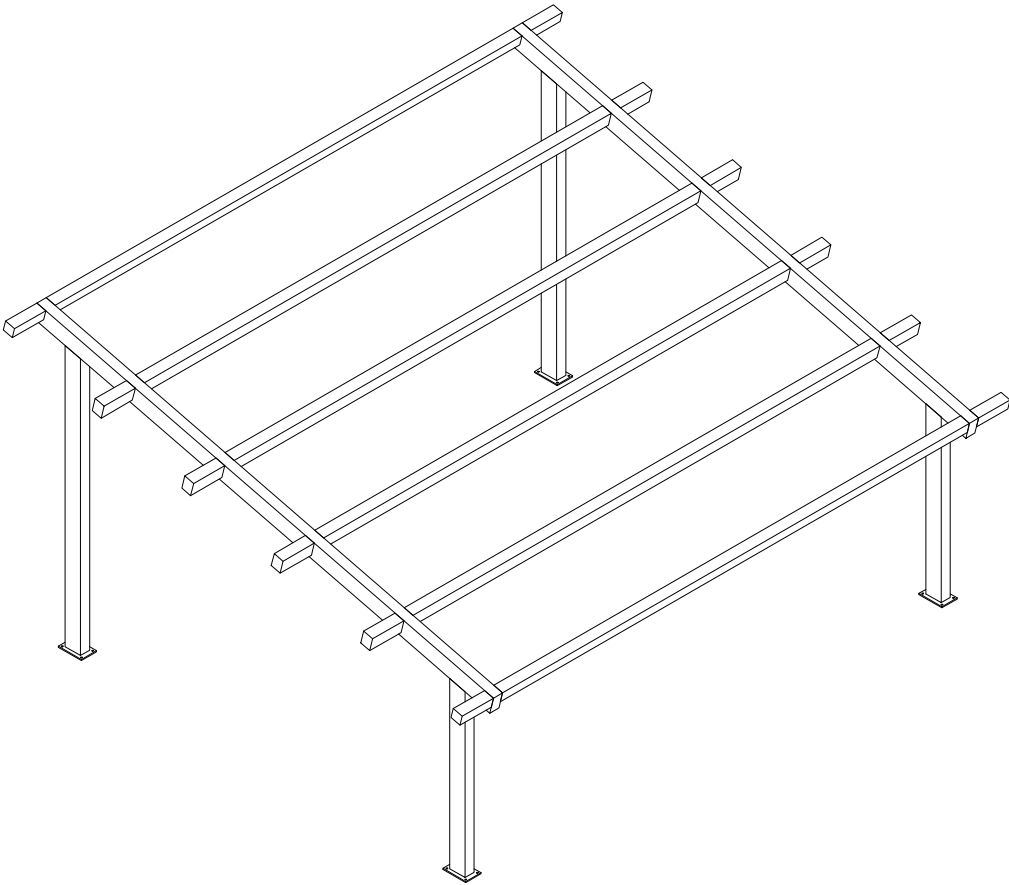
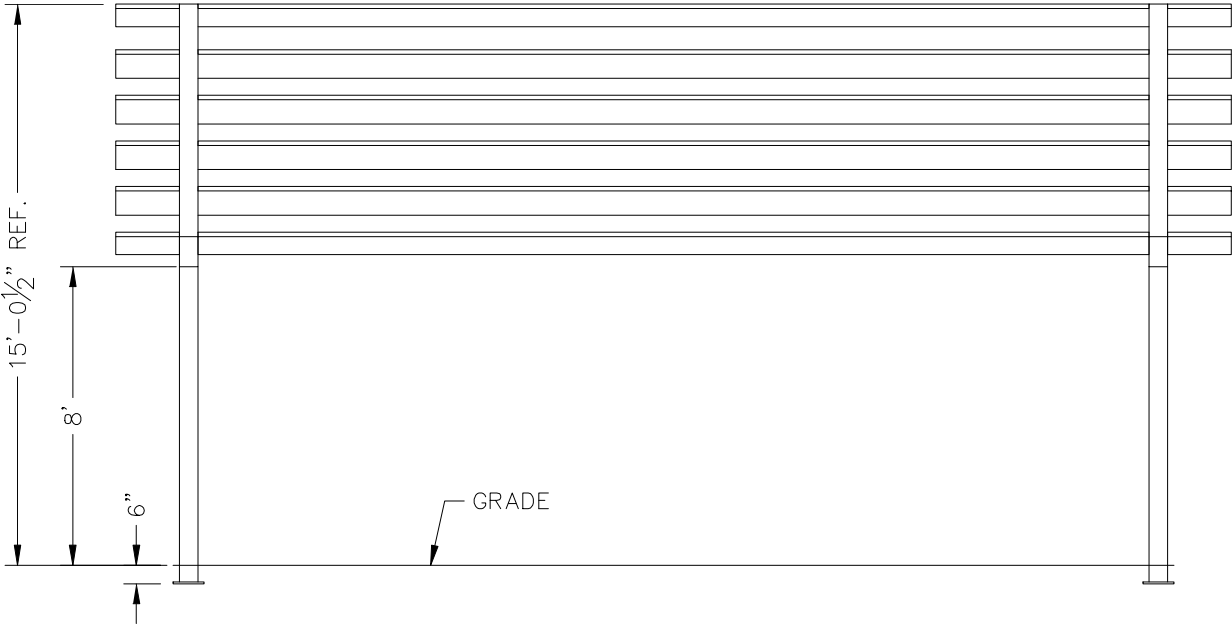
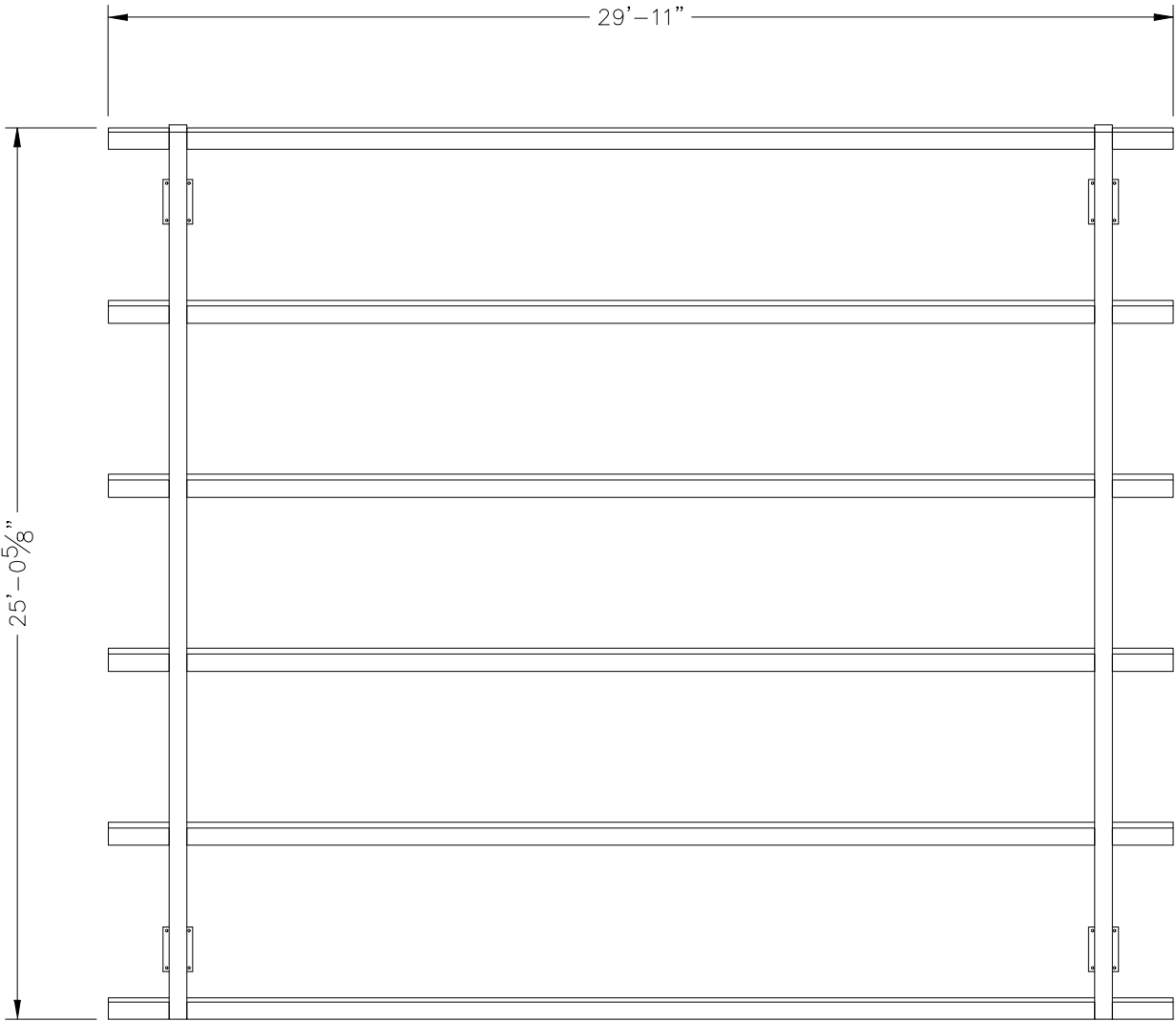
PRELIMINARY ID:
81298

REVISION:
A

BUILDING TYPE:
MP25X30S-P3

PROJECT NAME:

DWG:ineering\Standards\MP\25X30\S-P3-35-90-11\Drawings\Preliminary\MP25x30S-P3-35-90-11~81298.dwg



ALL STRUCTURAL COMPONENTS WILL BE:
TUBE: ASTM A500 GRADE B
PLATE: ASTM A36
BOLTS: ASTM A325
NUTS: ASTM A563
WELDING: GMAW

NOTE:
COLUMN SIZE: HSS 10x6x3/16

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Frame

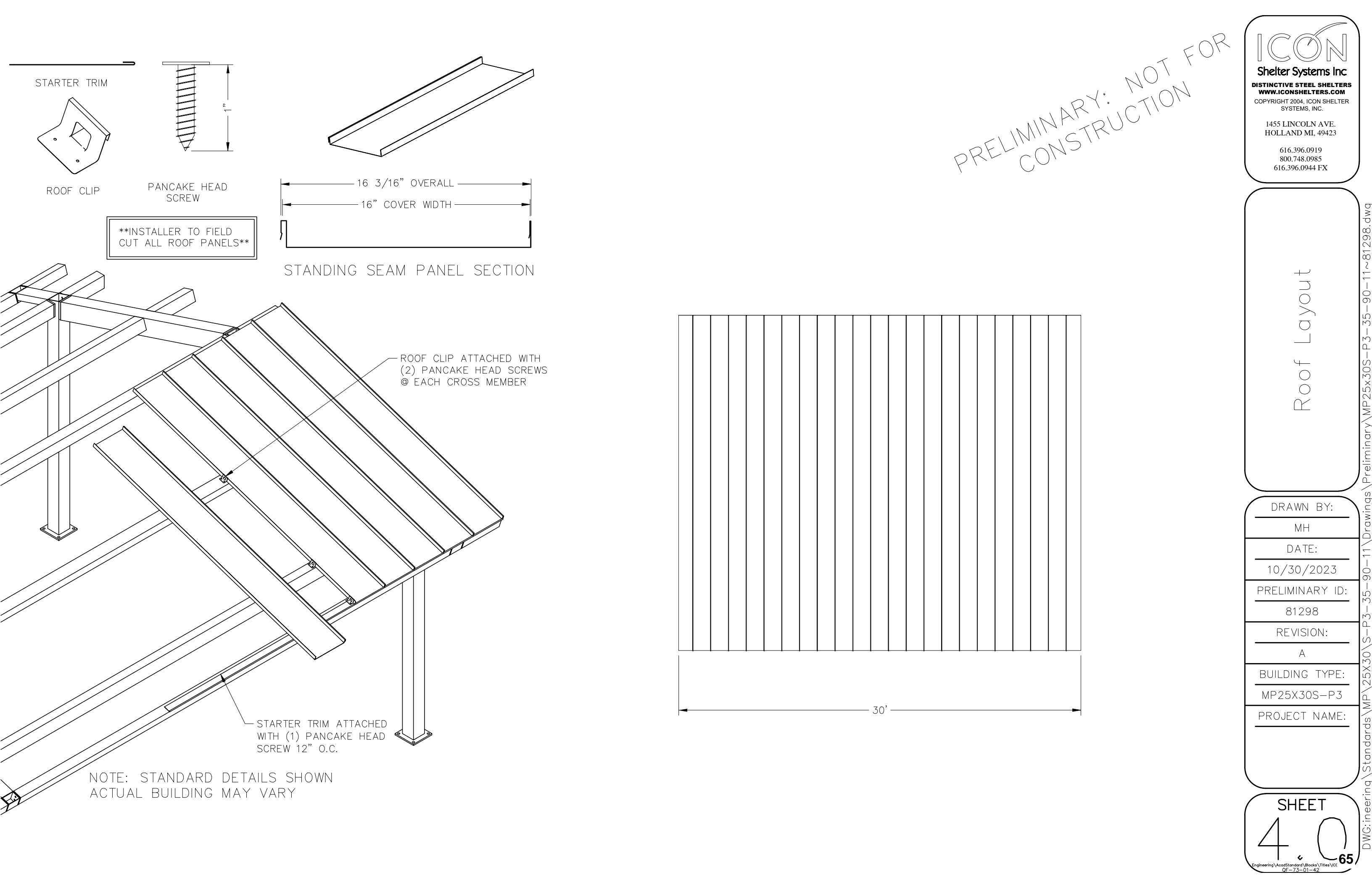
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MH
DATE:
10/30/2023
PRELIMINARY ID:
81298
REVISION:
A
BUILDING TYPE:
MP25X30S-P3
PROJECT NAME:

SHEET

30

64

DWG:ineering\Standards\MP\25X30\S-P3-35-90-11\Drawings\Preliminary\MP25x30S-P3-35-90-11~81298.dwg



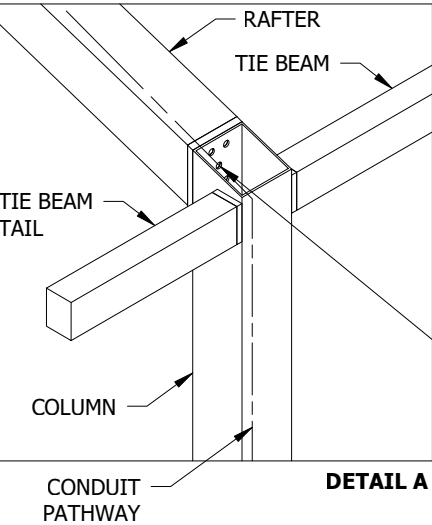
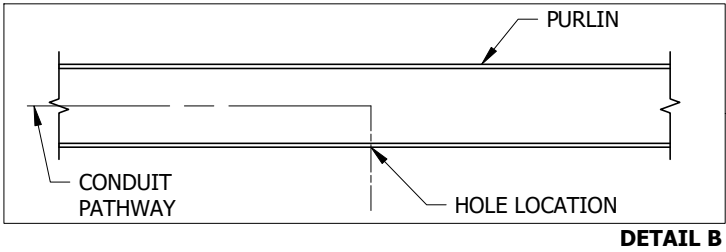
ELECTRICAL INFORMATION - MONOSLOPE

ICON'S STANDARD ELECTRICAL IS DESIGNED TO ACCOMMODATE Ø1/2" CONDUIT WITH A Ø3" INLET HOLE ON THE BOTTOM OF EACH COLUMN. THE CONDUIT PATHWAY RUNS THROUGH THE COLUMN, RAFTER, AND RIDGE BEAM THROUGH ALL BOLTED CONNECTIONS AS SHOWN. IF YOU HAVE SPECIAL ELECTRICAL REQUIREMENTS, PLEASE OUTLINE ANY CHANGES BELOW AS DESCRIBED.

PLEASE NOTE: DESIGN LIMITATIONS ON HOLE/CUTOUT SIZES MAY APPLY. ICON WILL REACH OUT TO DISCUSS ANY SUCH LIMITATIONS AS NEEDED.

NOTE: ICON SHELTER FRAME IS NOT UL LISTED TO ACT AS A CONDUIT FOR ELECTRICAL WIRING. CONSULT LOCAL BUILDING CODES WHEN PLANNING YOUR ELECTRICAL SYSTEM.

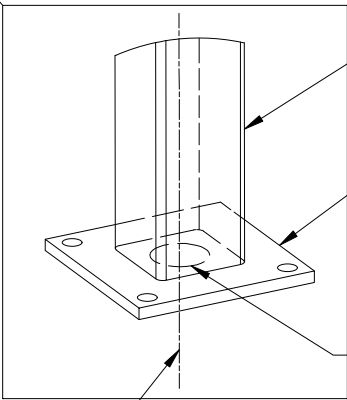
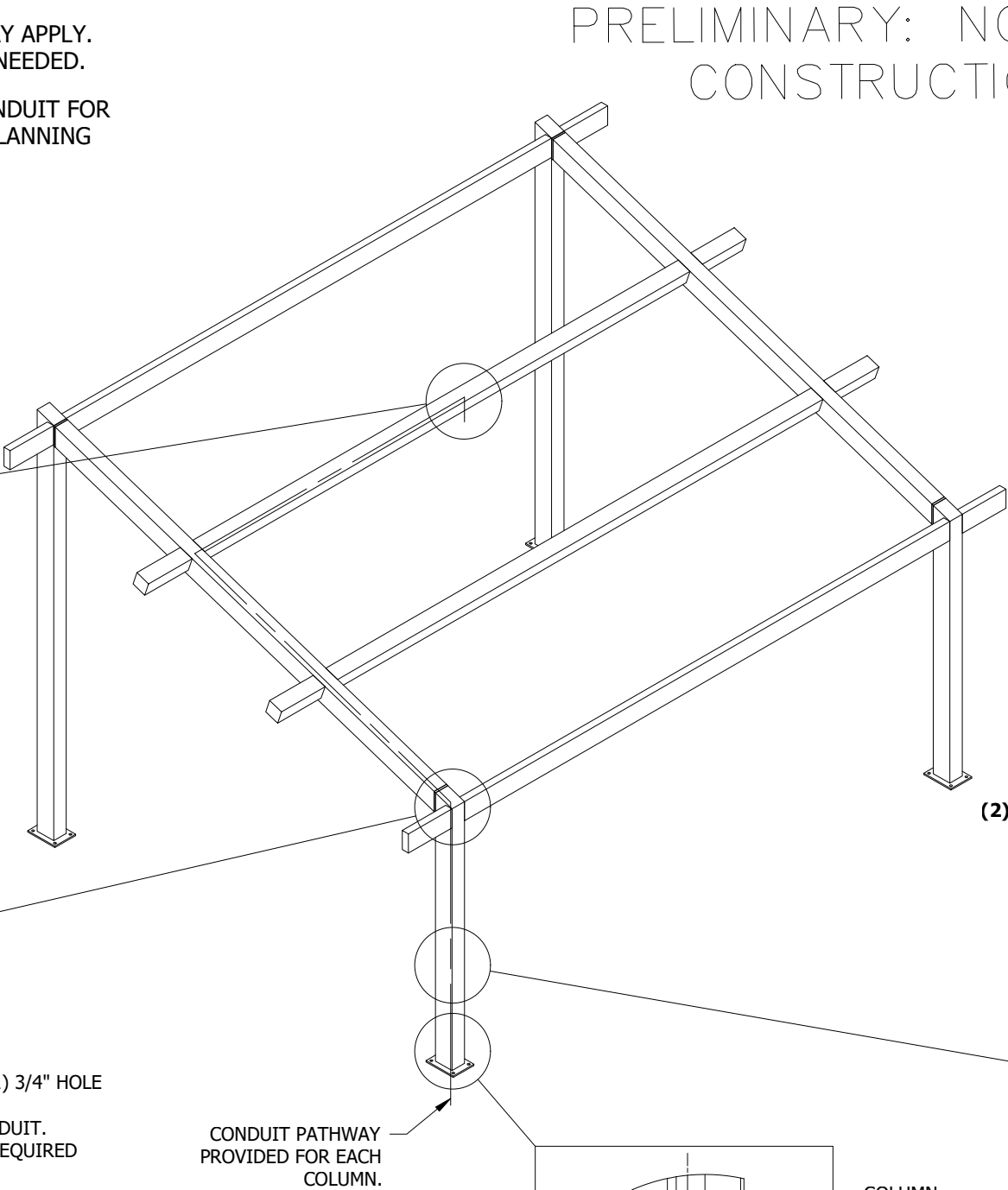
OPTIONAL EXIT HOLES
IF REQUIRED, EXIT HOLES FOR LIGHTING, ETC. CAN BE PLACED IN THE RAFTER AND/OR PURLIN. USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED EXIT HOLE LOCATIONS AND SIZE.



ICON PROVIDES A MINIMUM OF (1) 3/4" HOLE AT EACH CONNECTION FOR 1/2" CONDUIT. IF APPLICABLE, PLEASE SPECIFY REQUIRED CONDUIT SIZE: (CHARGES APPLY)

- ☐ 3/4" CONDUIT (1" HOLES)
- ☐ 1" CONDUIT (1 1/4" HOLES)
- ☐ OTHER (PLEASE SPECIFY)

NOTE: BUILDING DEPICTED ON THIS SHEET FOR ILLUSTRATION PURPOSES ONLY. ACTUAL LAYOUT AND FRAME MEMBER QUANTITIES VARY BY DESIGN. PLEASE REFER TO ELEVATION AND FRAME SHEETS IN THIS PRELIMINARY FOR ORDER-SPECIFIC CONFIGURATION.

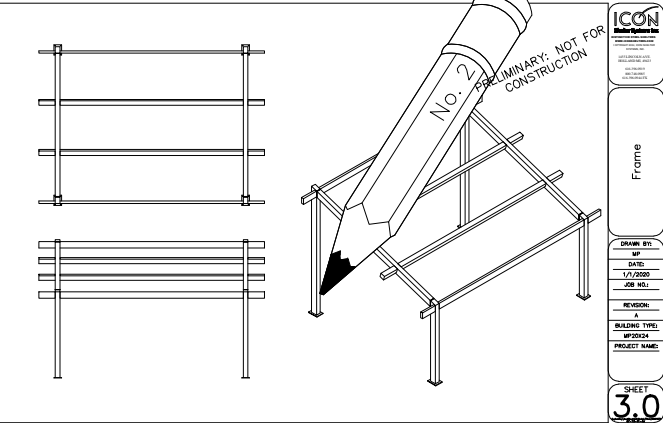


CONDUIT (NOT BY ICON)

PRELIMINARY: NOT FOR CONSTRUCTION

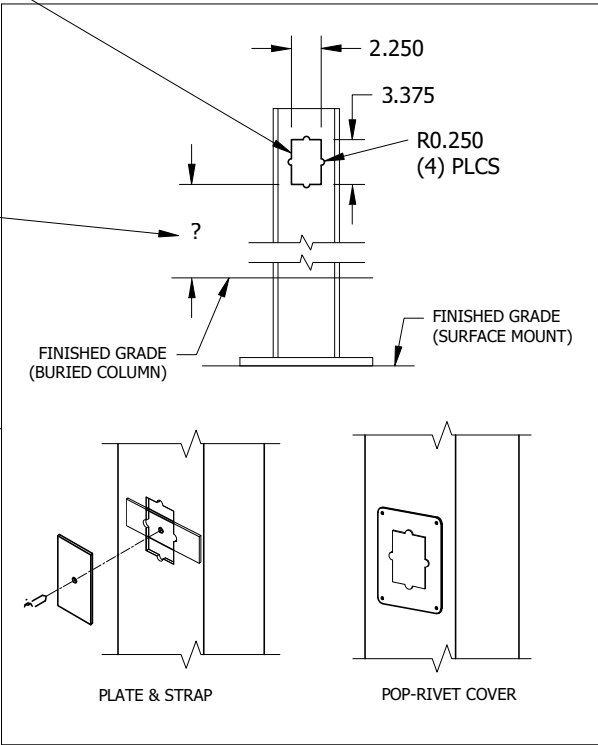
- STEPS:**
1. CONDUIT HOLE SIZE (DETAIL A)
 2. ELECTRICAL EXIT HOLES (DETAIL B)
 3. ELECTRICAL ACCESS & COVER PLATES (DETAIL C)
 4. ELECTRICAL CONDUIT PATHWAY (DETAIL D)

IF REQUIRED, PLEASE DRAW THE NECESSARY ELECTRICAL CONDUIT PATHWAY ON THE FRAME SHEET OF THIS PRELIMINARY.



OPTIONAL CUTOUTS
USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED CUTOUT LOCATIONS (CHARGES APPLY) SEE REQUIRED INFO BELOW

- (1) STANDARD CUTOUT SIZE SHOWN. SPECIFY IF OTHER SIZE REQUIRED.
- (2) CUTOUTS WILL BE ON INSIDE FACE OF COLUMN UNLESS OTHERWISE INDICATED ON FRAME SHEET.
- (3) SPECIFY HEIGHT ABOVE FINISHED GRADE FOR EACH CUTOUT AS SHOWN



- (4) COVER PLATES PROVIDED UPON REQUEST (CHARGES APPLY)
PLEASE SPECIFY TYPE AND QUANTITY REQUIRED:
- ☐ PLATE & STRAP
 - ☐ POP-RIVET COVER PLATE
- HOW MANY REQUIRED? _____

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Electrical

DRAWN BY: _____
MH

DATE: _____
10/30/2023

PRELIMINARY ID: _____
81298

REVISION: _____
A

BUILDING TYPE: _____
MP25X30S-P3

PROJECT NAME: _____

SHEET
5.0
66

DWG: ineeering\Standards\MP\25X30\S-P3-35-90-11\Drawings\Preliminary\MP25X30S-P3-35-90-11~81298.dwg







Wauwatosa, WI

7725 W. North Avenue
Wauwatosa, WI 53213

Staff Report

File #: 23-843

Agenda Date:

Agenda #: 2.

11530 Burleigh - Horicon Bank - RTU Screening



South Elevation

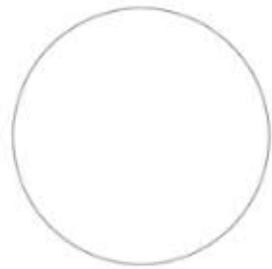


East Elevation



North Elevation

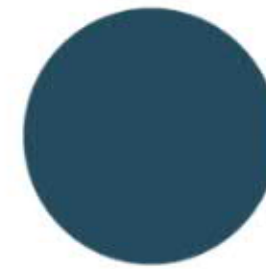
Acrylicap® ABS Panels are most often ordered in one of the colors below. Want something unique?
Provide a sample, RAL or PMS number and we will color match to your specifications.



ALABASTER



ELECTRIC BLACK



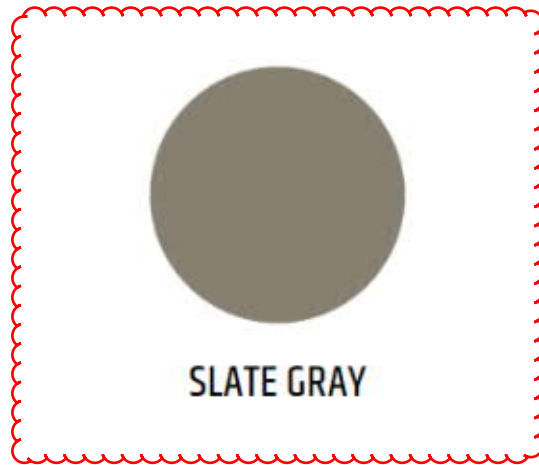
SLATE BLUE



FOREST GREEN



SHADOW GRAY



SLATE GRAY



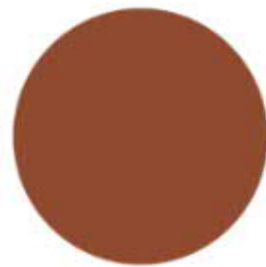
DARK BRONZE



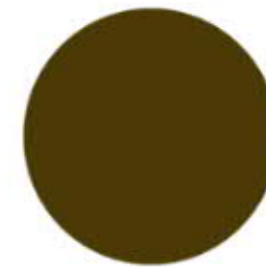
OYSTER



PUTTY



TERRACOTTA



MANSARD BROWN

Swatches viewed on a computer screen or on printed material are intended to be a guide to our product color choices. For best results, contact us to request material samples that will provide true color representation.

envisor[®]

SCREENING SYSTEMS

cityScapes[®]
ARCHITECTURAL INNOVATIONS



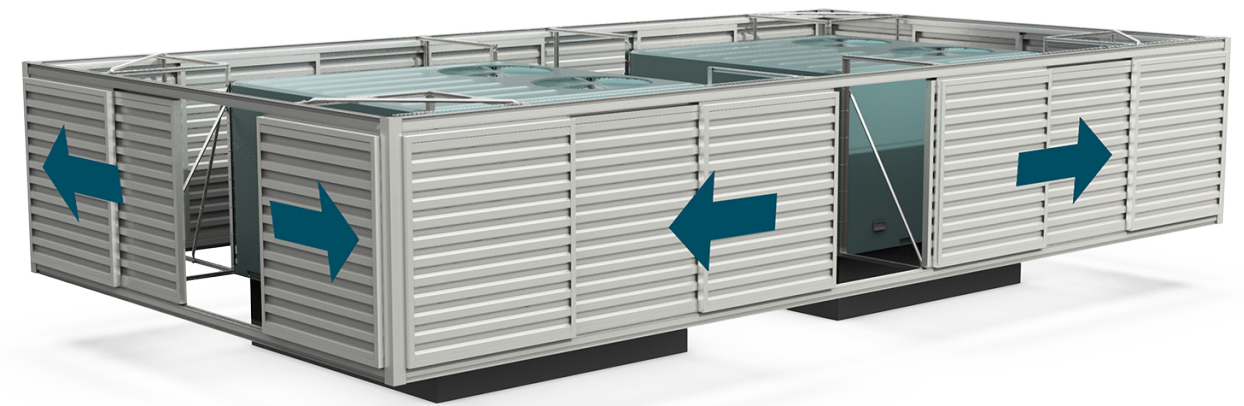
Office Building
Indianapolis, IN

ENVISOR[®]

ROOF SCREENS WITH SOARING GOOD LOOKS

Set the bar high with durable and attractive Envisor[®] roof screens. Affordable and elegant, Envisor makes meeting code simple and blends into any design. Better yet, no rooftop penetration is required for installation, which gives you a clean, modern look.

- Practical solution for municipal screening requirements of HVAC units, chillers, air handlers, and more.
- Create your own custom design for your specific application.
- Nationwide project management and installation available.
- Designed in-house and manufactured in a state-of-the-art facility.



ZERO ROOFTOP PENETRATION

UV and rust resistant finishes to protect from harsh environments

CODE COMPLIANT

Practical solution for municipal screening requirements of HVAC units, chillers, air handlers, and more

WIND LOAD AND RESISTANCE

Ultimate wind speed resistance

EASY MAINTENANCE

Panels slide for easy service access

PANEL STYLES BLEND BUILDING DESIGN & UTILITY

Envisor® offers over 15 panel designs and variety of colors to choose from, ensuring that your HVAC screening perfectly matches your building design.





Hospital
Richmond, VA

ACRYLICAP[®] ABS INFILLS

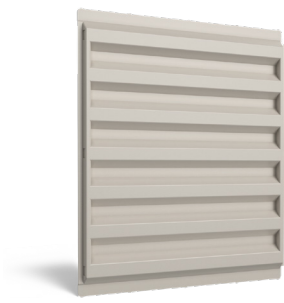
- Acrylicap[®] uses .187 acrylic-capped ABS for UV protection.
- Standard panel heights are 35", 52", 70".
- Panels can be stacked for additional coverage.
- PE Stamped drawings are available on all North America projects.



Louver



Horizontal Rib



7.2 Rib



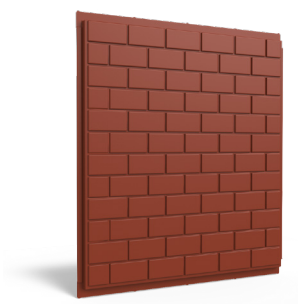
Flat Pan




Batten



Vertical Rib



Brick

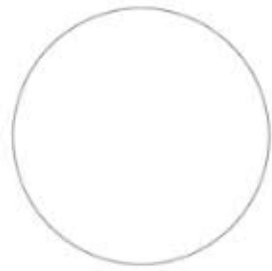


We are working with Cityscapes to provide a panel with this tree pattern in the Slate Grey color.

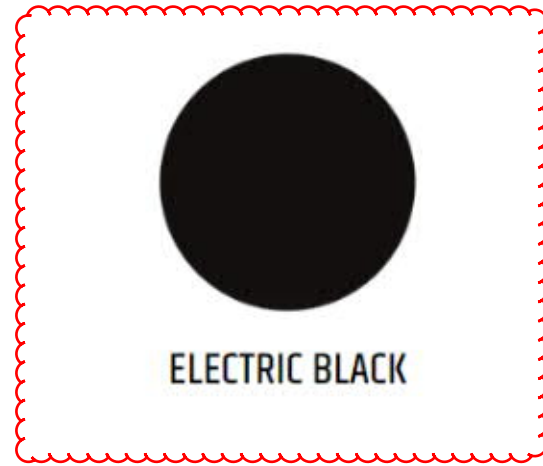
Actual color swatch will be provided at the Design Review Board meeting

Custom

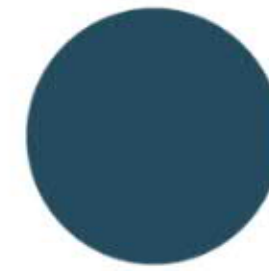
Acrylicap® ABS Panels are most often ordered in one of the colors below. Want something unique?
Provide a sample, RAL or PMS number and we will color match to your specifications.



ALABASTER



ELECTRIC BLACK



SLATE BLUE



FOREST GREEN



SHADOW GRAY



SLATE GRAY



DARK BRONZE



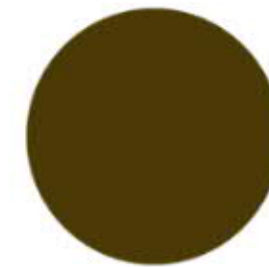
OYSTER



PUTTY



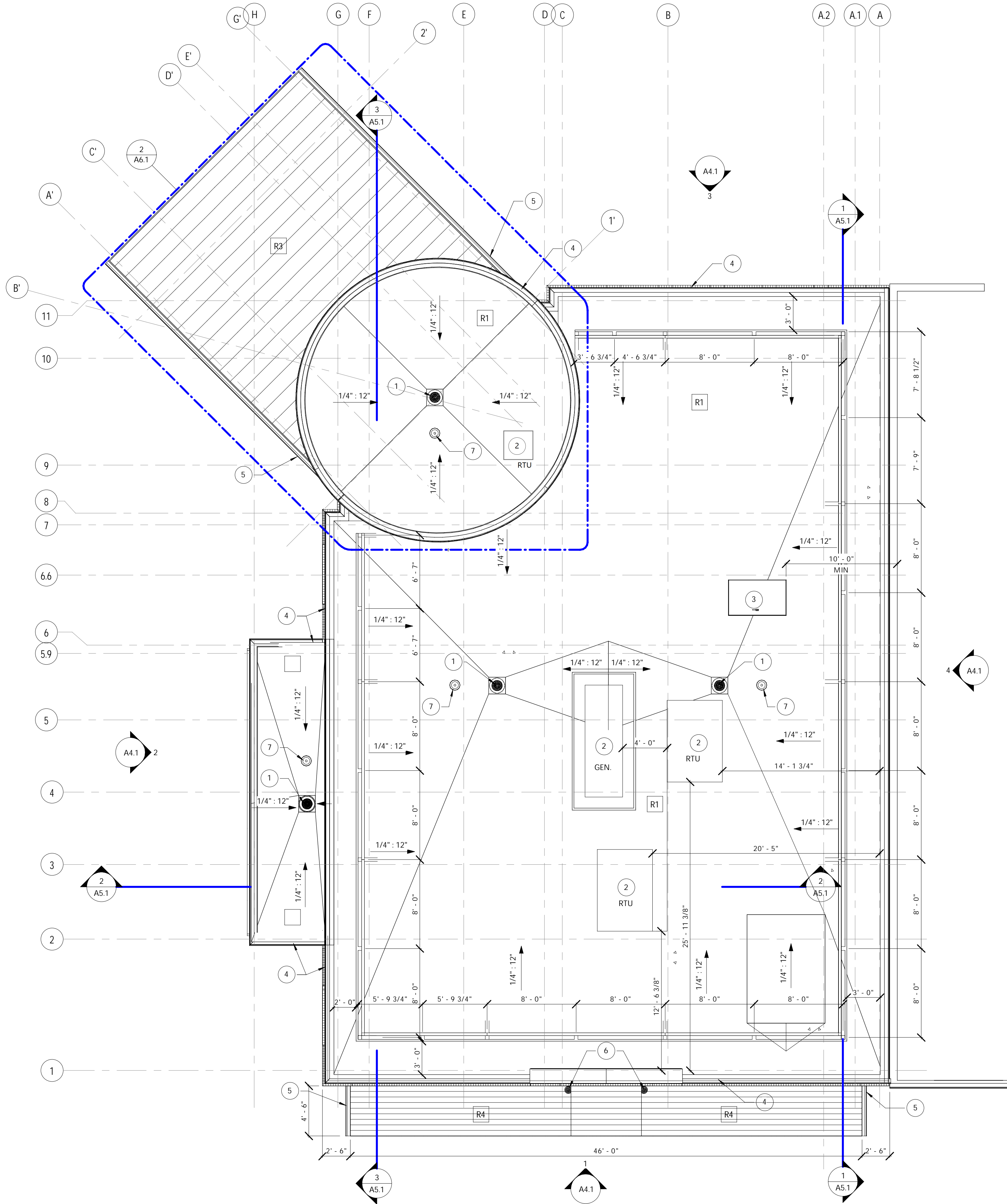
TERRACOTTA



MANSARD BROWN

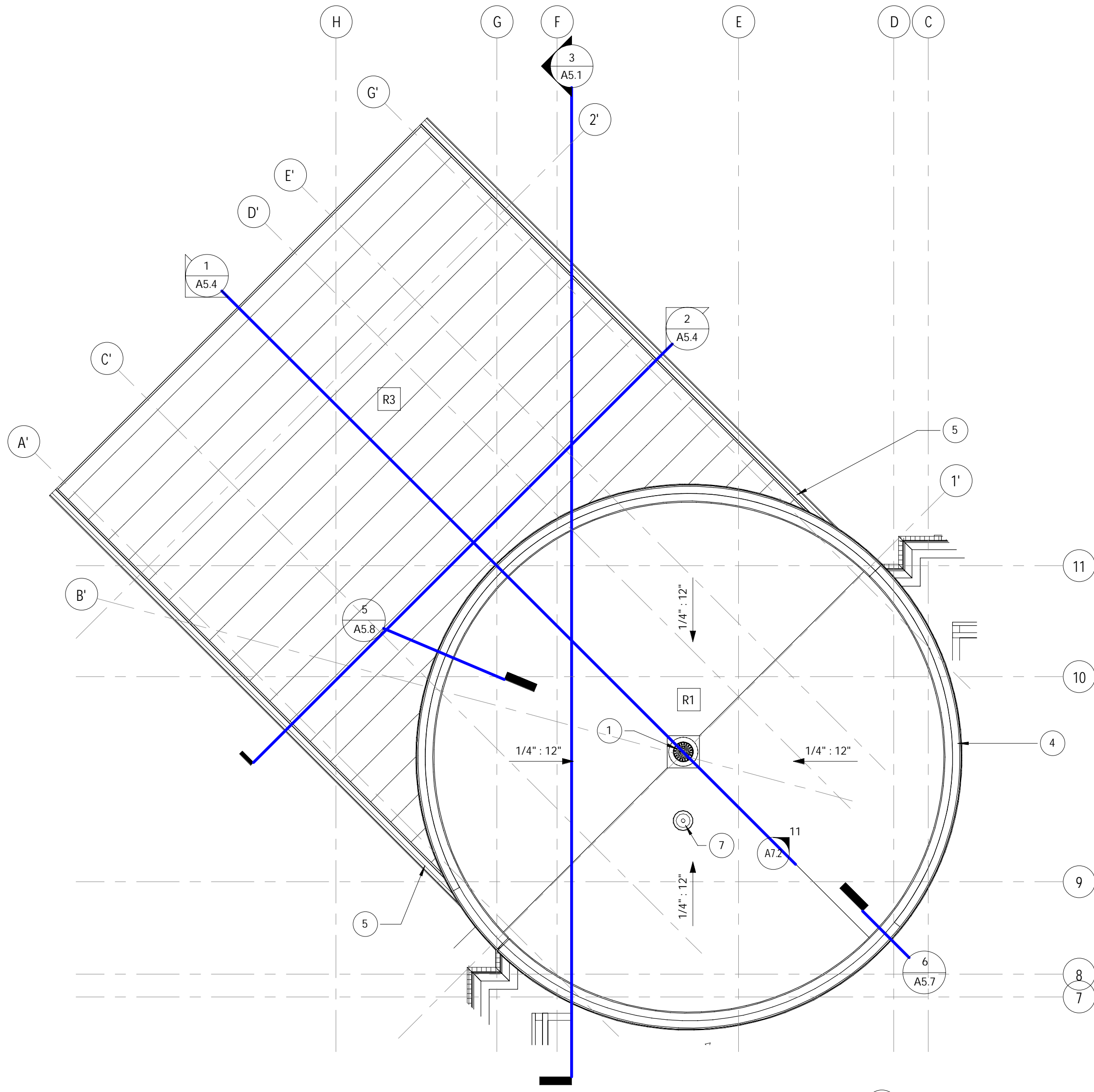
Swatches viewed on a computer screen or on printed material are intended to be a guide to our product color choices. For best results, contact us to request material samples that will provide true color representation.

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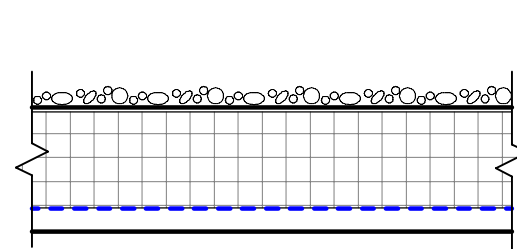


1 ROOF
A6.1 3/16" = 1'-0"

KEYED ROOF PLAN NOTES	
TAG #	DESCRIPTION
1	ROOF DRAIN
2	MECHANICAL EQUIPMENT. SEE MECHANICAL FOR ADDITIONAL INFORMATION
3	ROOF HATCH WITH FIXED WALL-MOUNTED ACCESS LADDER
4	PREFINISHED METAL COPING/GRAVEL STOP- PAC CLAD "DARK GRAY", TYPICAL FOR ALL COPINGS
5	PREFINISHED METAL FASCIA AND GUTTERS. GUTTERS TO RUN TO STORM
6	ROOF DRAIN- RUN TO INTERIOR OF BUILDING
7	ROOF DRAIN- RUN TO INTERIOR OF BUILDING
18	ROOF DRAIN- RUN TO INTERIOR OF BUILDING



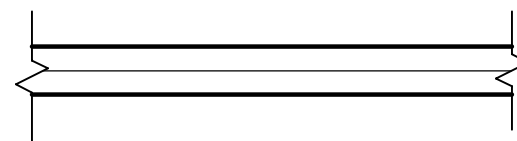
2 ENLARGED ROOF PLAN
A6.1 1/4" = 1'-0"



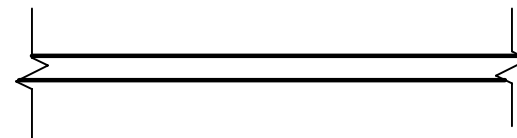
ROOF R1:
- 60MIL BLACK EPDM, BALLASTED
- TAPERED XPS INSULATION
- MINIMUM 6" (R24) XPS INSULATION (2 LAYERS) W/ STAGGERED JOINTS
- 30 MIL VAPOR BARRIER
- METAL DECK PER STRUCTURAL
- FRAMING PER STRUCTURAL

ROOF R2:

NOT USED



ROOF R3:
STANDING SEAM METAL ROOF ON 1 1/2" METAL DECK

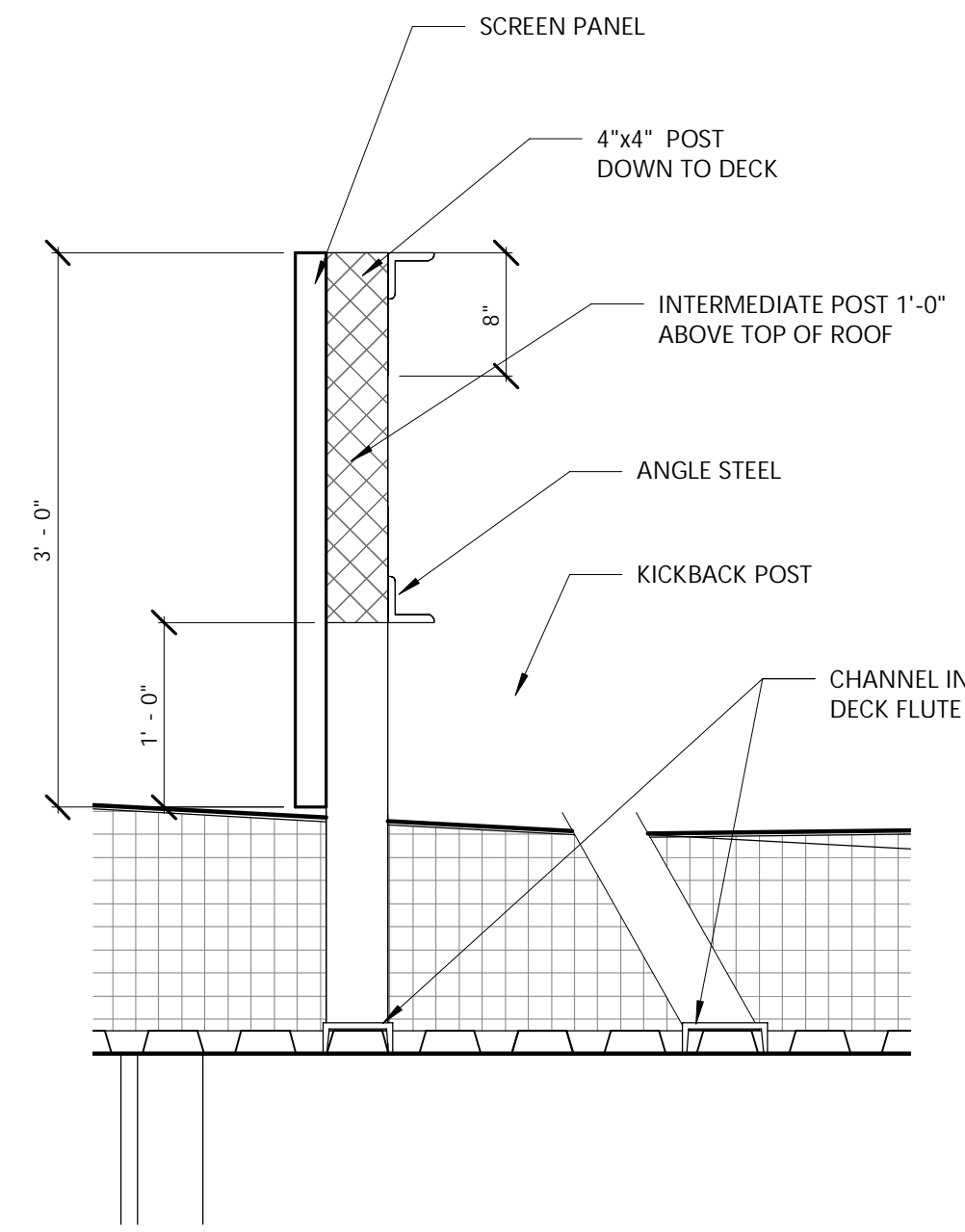


ROOF R4:
STANDING SEAM METAL ROOF

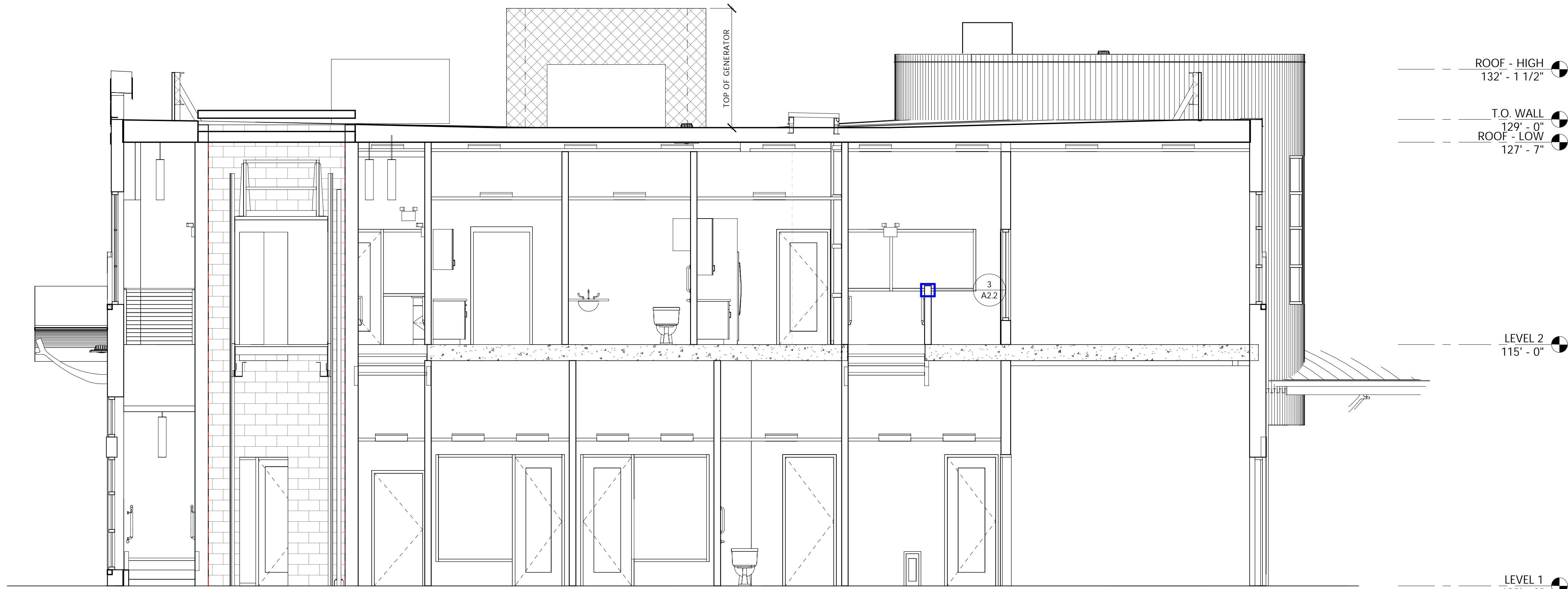
ROOF TYPES
1" = 1'-0"



1 SHORT SECTION
A5.0 1/4" = 1'-0"



3 Detail 2
A5.0 1" = 1'-0"



2 LONG SECTION
A5.0 1/4" = 1'-0"

SHEET TITLE

BUILDING SECTIONS W/
ROOFTOP SCREEN

REVISIONS

PROJECT DATA

DATE
1/10/2024
JOB NO.
20-00219
SET USE
DRAWN BY
TJD
SHEET NO.

A5.0

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**DISTANCE AWAY FROM
BUILDING BEFORE YOU WILL
START TO SEE THE TOP OF
THE RTU.**
NORTH: 722'
EAST: 374'

EVERY LINE IS 50'

DESIGN

2

CONSTRUCT

DEVELOPMENT CORPORATION

N173 W21010
NORTHWEST PASSAGE WAY
JACKSON, WI 53037

•

PHONE 262.677.9933
FAX 262.677.9934

•

info@design2construct.com

BUILDING DESIGN FOR:
HORICON BANK

11530 W. BURLEIGH STREET
WAUWATOSA, WI 53213

SHEET TITLE

RTU SITE PLAN LAYOUT

REVISIONS

PROJECT DATA

DATE	1/10/2024
JOB NO.	20-00219
SET USE	
DRAWN BY	TJD
SHEET NO.	

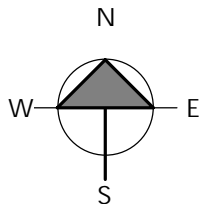
A1.1

1

A1.1

SITE PLAN

1" = 100'-0"



BUILDING DESIGN FOR:

HORICON BANK

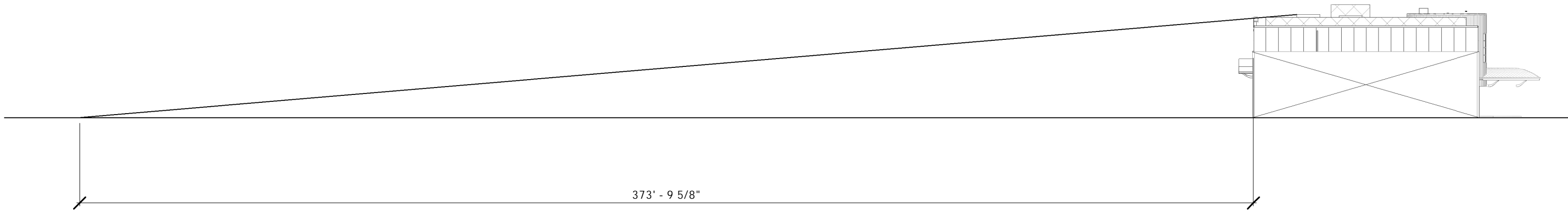
11530 W. BURLEIGH STREET

WAUWATOSA, WI 53213

SHEET TITLE
SCREENED RTU ELEVATION

REVISIONS

PROJECT DATA
DATE
1/10/2024
JOB NO.
20-00219
SET USE
DRAWN BY
TJD
SHEET NO.
A1.2

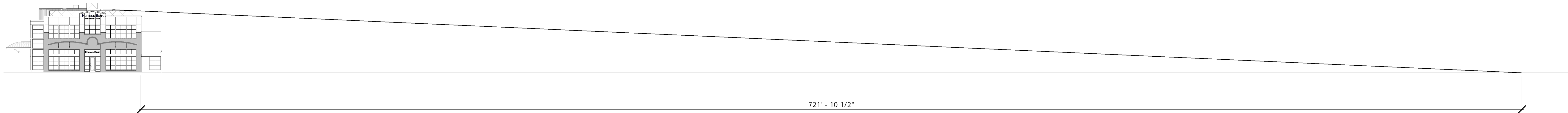


2

A1.2

BUILDING ELEVATION - NORTH

1" = 30'-0"



1

A1.2

BUILDING ELEVATION - EAST

1" = 30'-0"



South Elevation



East Elevation



North Elevation

envisor[®]

SCREENING SYSTEMS

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ARCHITECTURAL INNOVATIONS



Office Building
Indianapolis, IN

ENVISOR[®]

ROOF SCREENS WITH SOARING GOOD LOOKS

Set the bar high with durable and attractive Envisor[®] roof screens. Affordable and elegant, Envisor makes meeting code simple and blends into any design. Better yet, no rooftop penetration is required for installation, which gives you a clean, modern look.

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- Create your own custom design for your specific application.
- Nationwide project management and installation available.
- Designed in-house and manufactured in a state-of-the-art facility.



ZERO ROOFTOP PENETRATION

UV and rust resistant finishes to protect from harsh environments

CODE COMPLIANT

Practical solution for municipal screening requirements of HVAC units, chillers, air handlers, and more

WIND LOAD AND RESISTANCE

Ultimate wind speed resistance

EASY MAINTENANCE

Panels slide for easy service access

PANEL STYLES BLEND BUILDING DESIGN & UTILITY

Envisor® offers over 15 panel designs and variety of colors to choose from, ensuring that your HVAC screening perfectly matches your building design.





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ACRYLICAP® ABS INFILLS

- Acrylicap® uses .187 acrylic-capped ABS for UV protection.
- Standard panel heights are 35", 52", 70".
- Panels can be stacked for additional coverage.
- PE Stamped drawings are available on all North America projects.



Louver



Horizontal Rib



7.2 Rib



Flat Pan



Batten



Vertical Rib



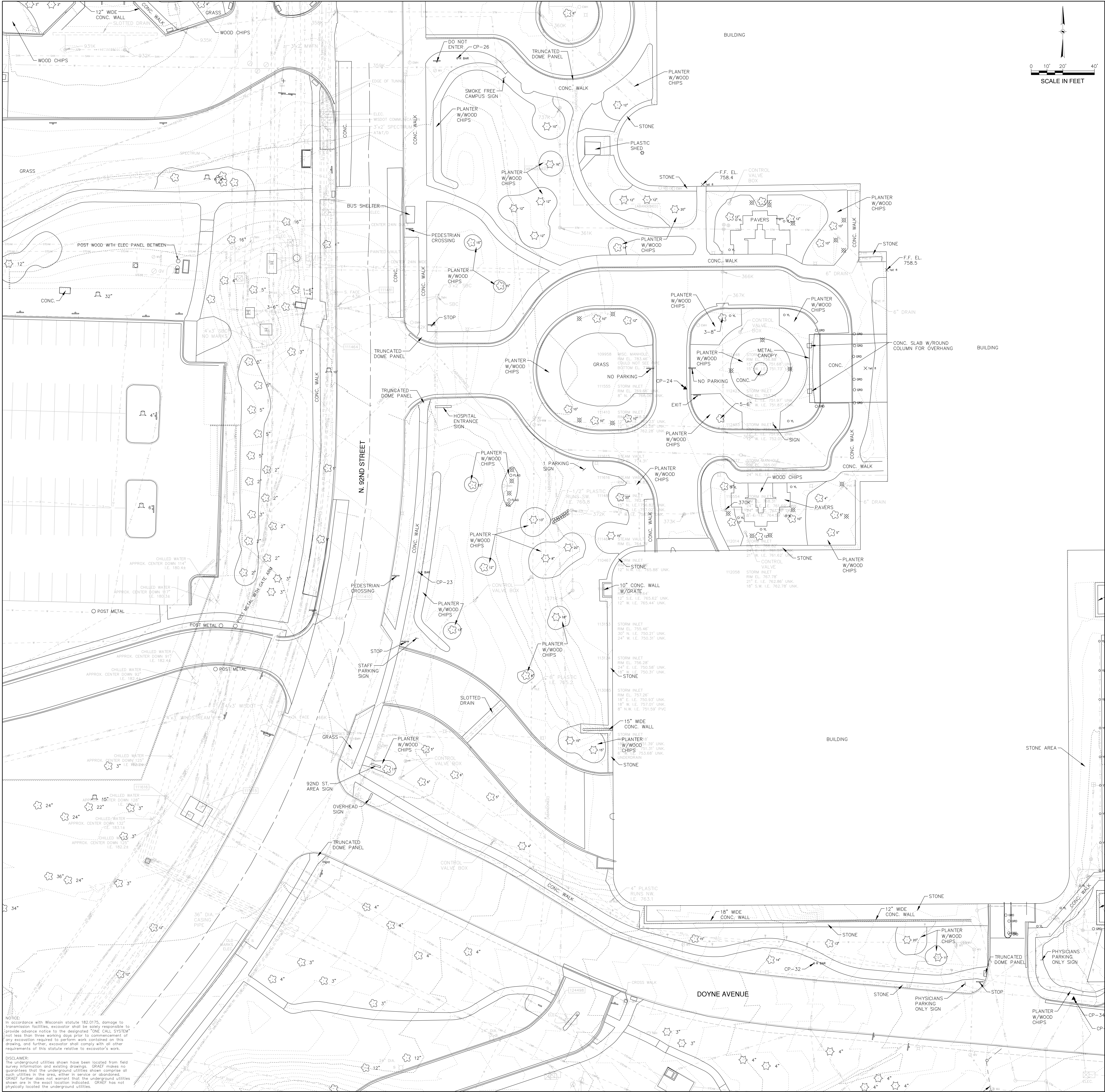
Brick



Custom







GENERAL SHEET NOTES

1. SEE SHEET C0002 FOR GENERAL NOTES.
2. SEE SHEET C0002 FOR SURVEY NOTES.

SHEET KEYNOTES

SHEET LEGEND



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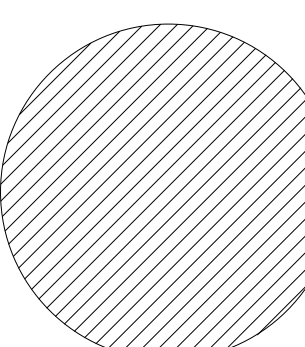
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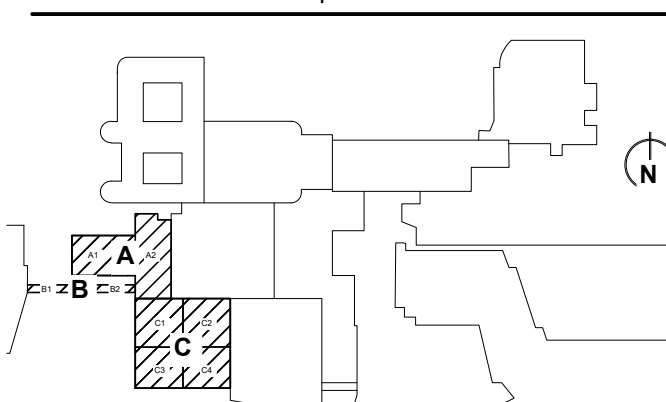


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KEY PLAN

Drawing Title:

EXISTING CONDITIONS

Project No.: 009002.00

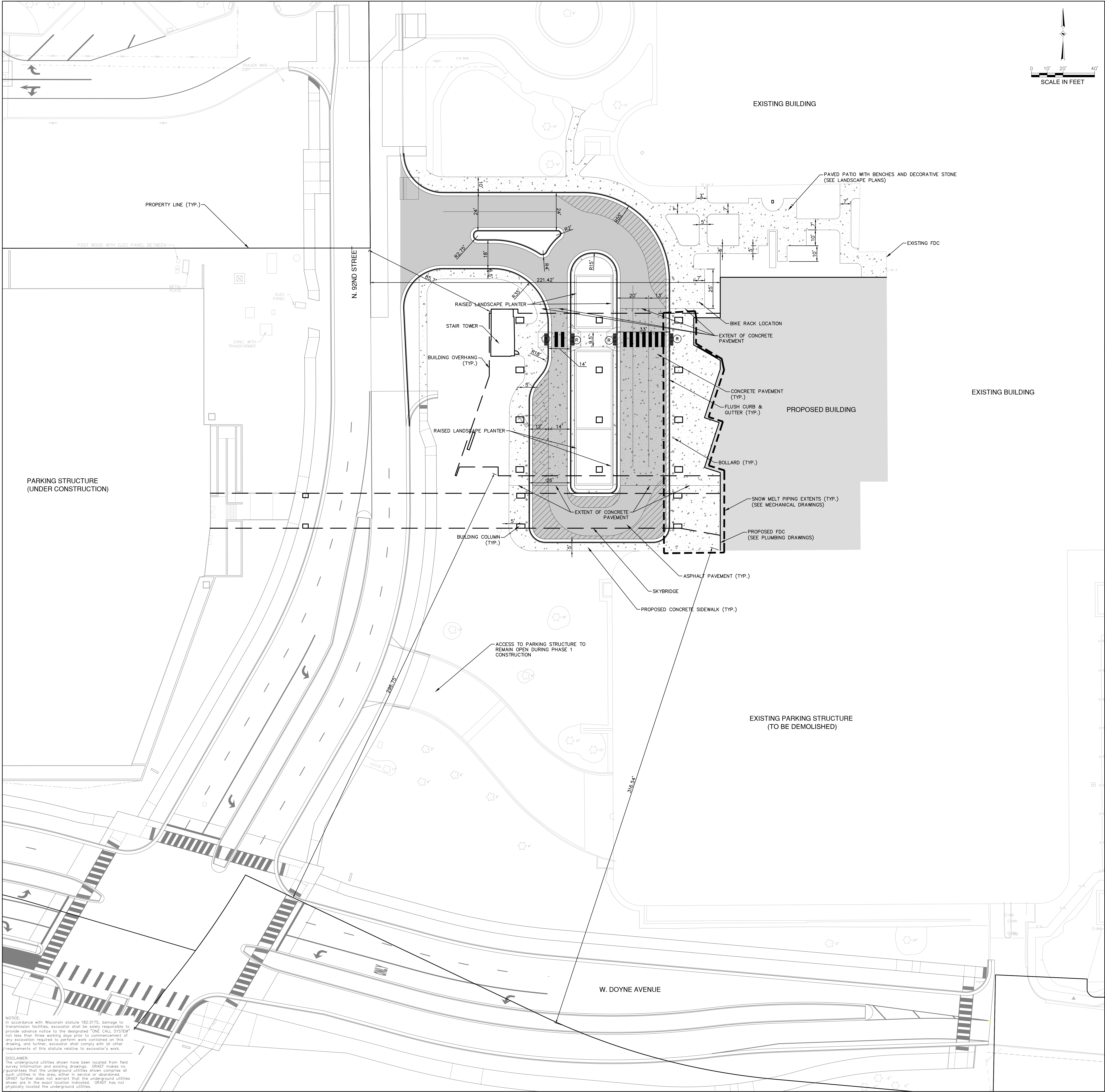
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NOTICE:
In accordance with Wisconsin statute 192.0175, damage to transmission facilities, excavator shall be solely responsible to provide advance notice to the designated "ONE CALL SYSTEM" not less than three working days prior to commencement of any excavation required to perform work contained on this drawing, and further, excavator shall comply with all other requirements of this statute relative to excavator's work.

DISCLAIMER:
The underground utilities shown have been located from field survey information and existing drawings. GRAEF makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. GRAEF further does not warrant that the underground utilities shown are in the exact location indicated. GRAEF has not physically located the underground utilities.



GENERAL SHEET NOTES

1. SEE SHEET C0002 FOR GENERAL NOTES.

2. SEE SHEET C0002 FOR LAYOUT NOTES.

SHEET KEYNOTES

SHEET LEGEND

-PROPOSED ASPHALT PAVEMENT

-PROPOSED CONCRETE SIDEWALK

-PROPOSED CONCRETE PAVEMENT

-PROPOSED CONCRETE CURB AND GUTTER

(R)

-PROPOSED ADA RAMP WITH TRUNCATED DOMES

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Description

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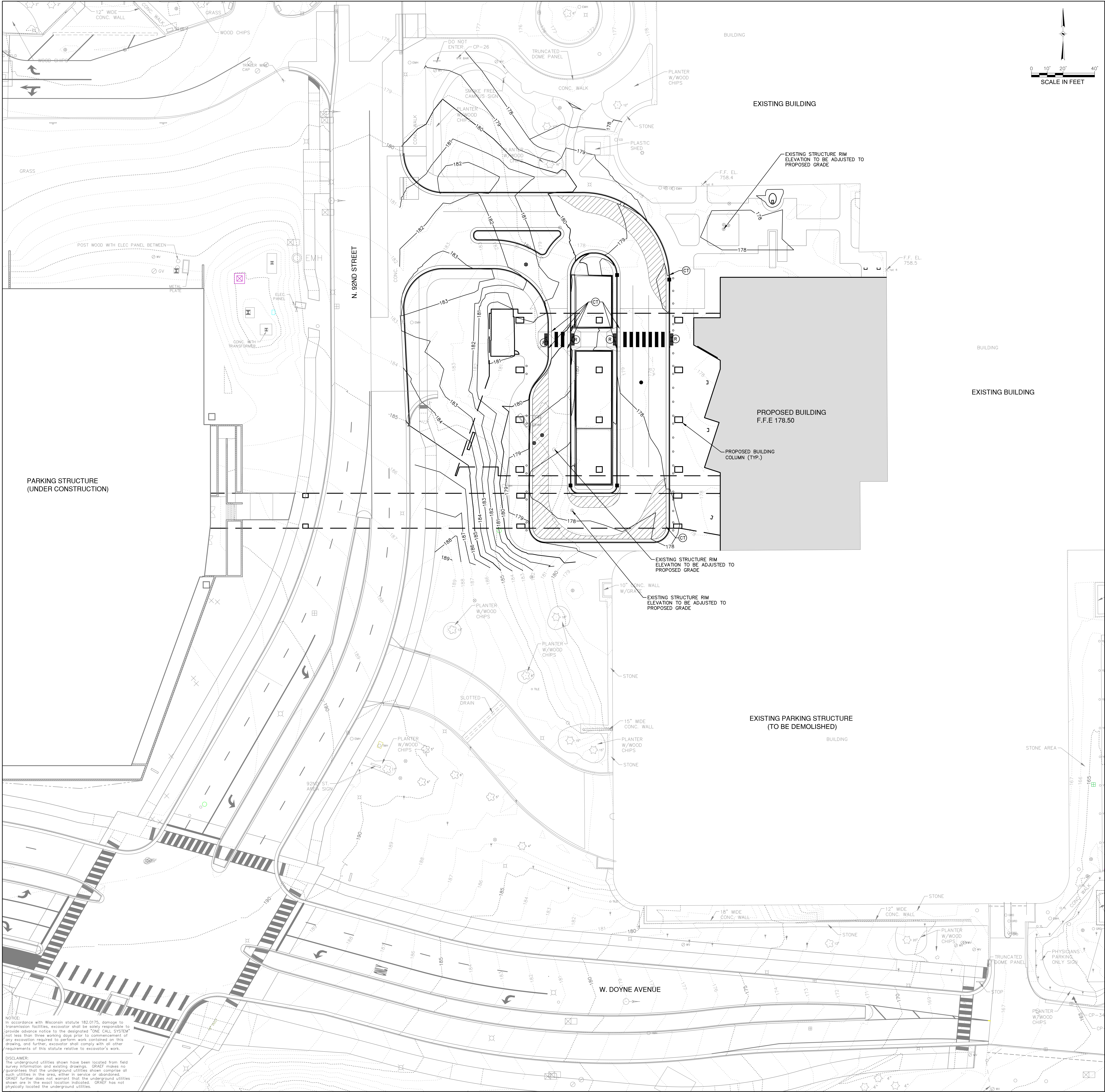
SITE LAYOUT PLAN

Project No.: 009602.00

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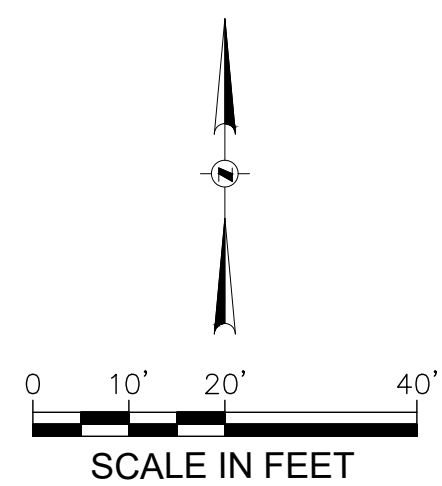
C-2

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GENERAL SHEET NOTES

1. SEE SHEET C0002 FOR GENERAL NOTES.
2. SEE SHEET C0002 FOR GRADING NOTES.



SHEET KEYNOTES

SHEET LEGEND

- EXISTING CONTOUR
- - - PROPOSED CONTOUR
- PROPOSED MANHOLE
- PROPOSED CATCH BASIN
- ⊗ PROPOSED ADA RAMP WITH TRUNCATED DOMES
- ⊕ PROPOSED CURB TAPER
- ⊙ PROPOSED GATE VALVE
- ⊖ PROPOSED HYDRANT
- ⊔ PROPOSED UTILITY PLUG

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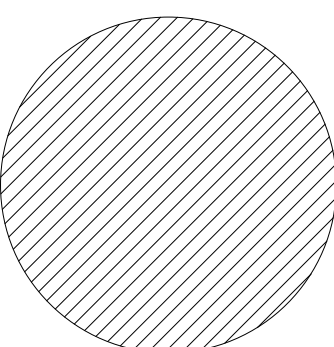
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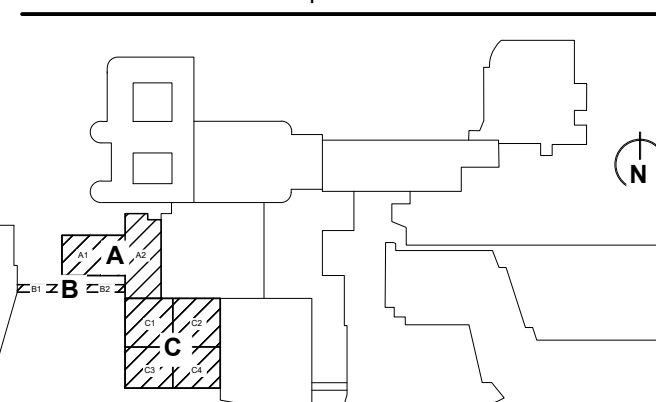


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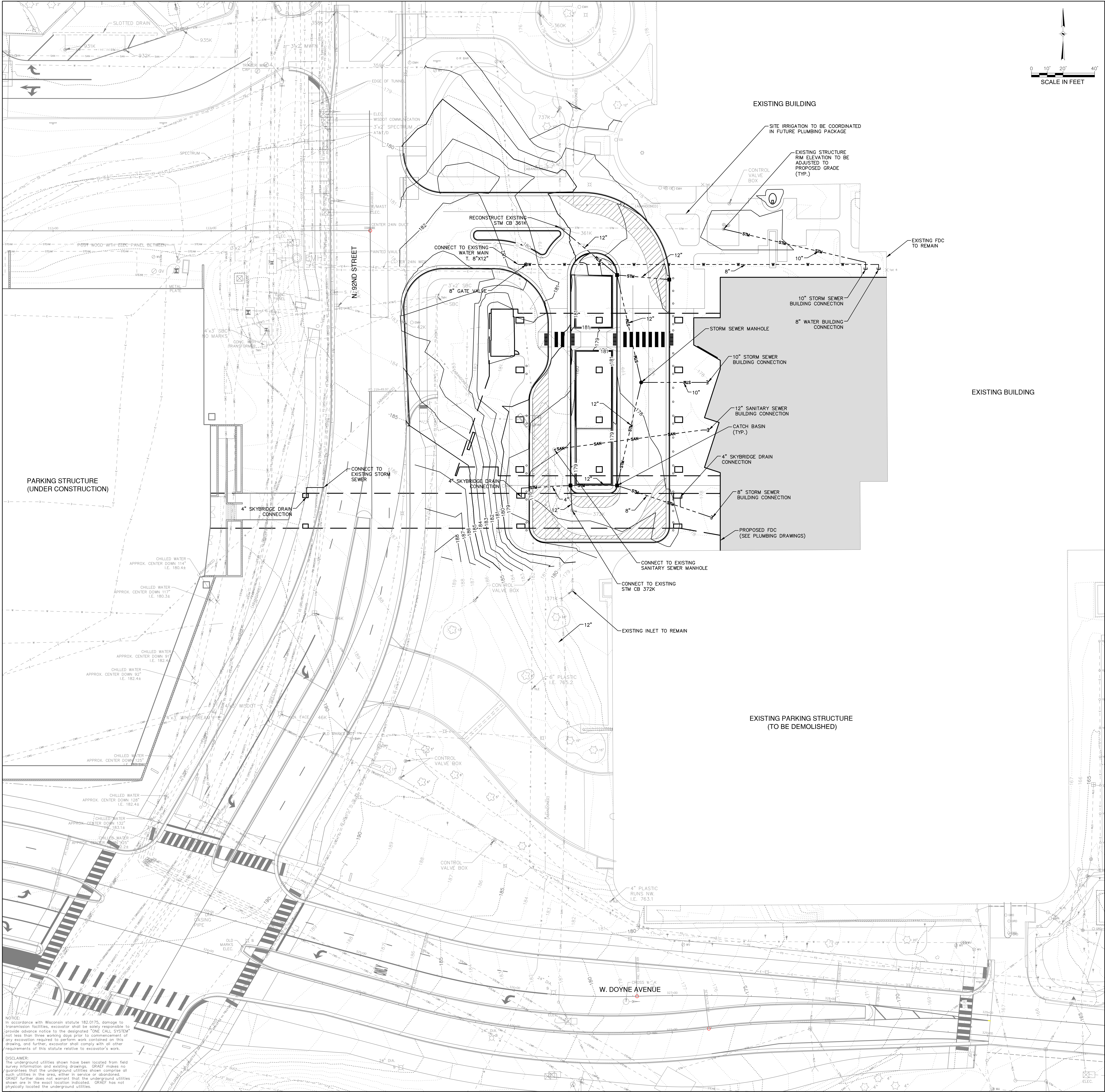
Drawing Title:

SITE GRADING PLAN

Project No.: 009602.00

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C-3



GENERAL SHEET NOTES

- SEE SHEET C0002 FOR GENERAL NOTES.
- SEE SHEET C0002 FOR UTILITY NOTES.

SHEET KEYNOTES

SHEET LEGEND

---	EXISTING CONTOUR
100	PROPOSED CONTOUR
●	PROPOSED MANHOLE
■	PROPOSED CATCH BASIN
STM	PROPOSED STORM SEWER
SAN	PROPOSED SANITARY SEWER
W	PROPOSED WATER MAIN
E	PROPOSED ELECTRICAL
●	PROPOSED MANHOLE
■	PROPOSED CATCH BASIN
⊗	PROPOSED GATE VALVE
▼	PROPOSED HYDRANT
⊥	PROPOSED UTILITY PLUG

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KEY PLAN

Drawing Title:

SITE UTILITY PLAN

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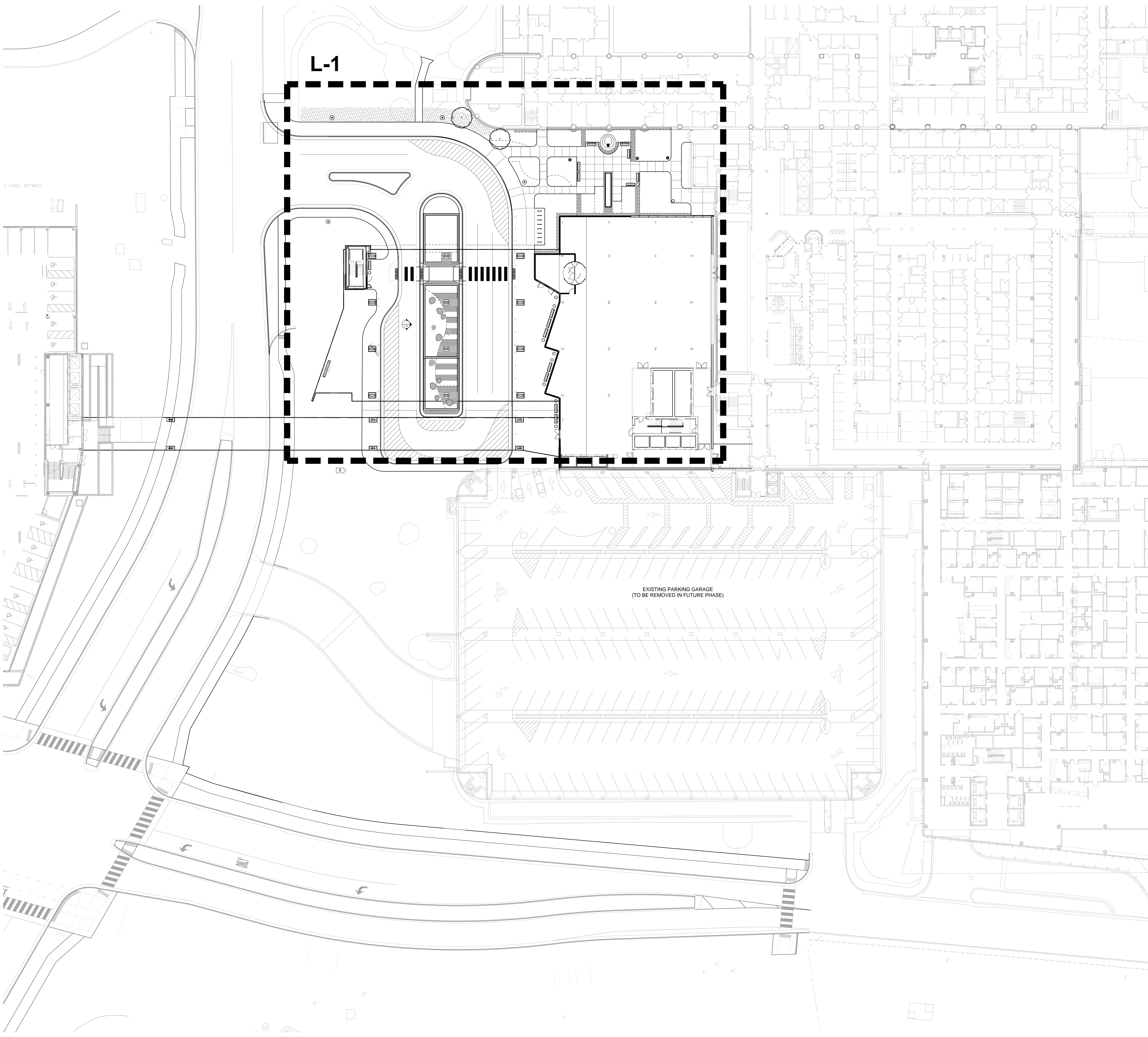
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C: PANEL BETWEEN

L-1

EXISTING PARKING GARAGE
(TO BE REMOVED IN FUTURE PHASE)

KEYNOTES:

- 1 BITUMINOUS PAVING
- 2 CONCRETE (REGULAR) WALK
- 3 EDGING
- 4 LOW PLANTER WALL (HEIGHT VARIES, PIP); REFER TO L-3s
- 5 BENCH 6'
- 6 PLANTER (Tournesol or sim)
- 7 DECORATIVE STONE AGGREGATE, TYPE 1, REFER TO 3/L210
- 8 DECORATIVE STONE AGGREGATE, TYPE 2, REFER TO 3/L210
- 9 PLANTING AREA
- 10 FUTURE SCULPTURE
- 11 DECORATIVE BOULDERS
- 12 BIKE RACK
- 13 RAISED BERM (2' to 3' ht.)
- 14 TRAFFIC BOLLARD, REFER TO CIVIL
- 15 LITTER & RECYCLING RECEPTACLE
- 16 ROADWAY POLE LIGHT
- 17 MULTI-HEAD PEDESTRIAN POLE LIGHT

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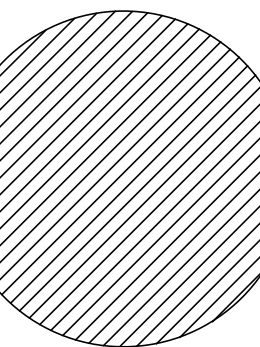
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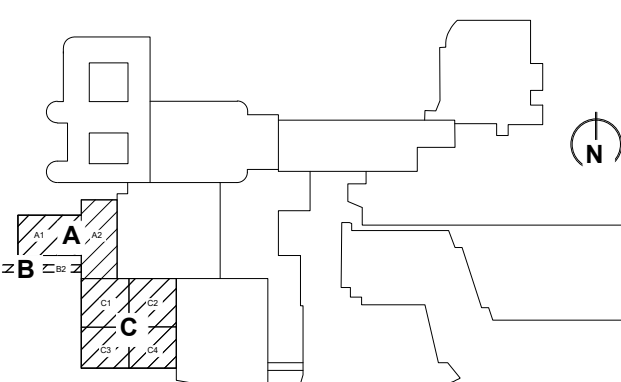
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KEY PLAN

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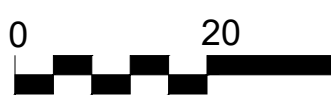
LAYOUT AND
MATERIALS
REFERENCE PLAN

Project No.: 009002.00

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L-1

SCALE IN FEET



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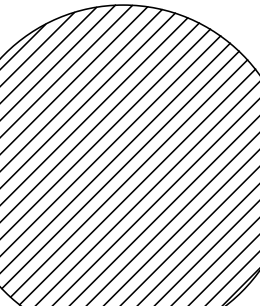
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KEYNOTES:

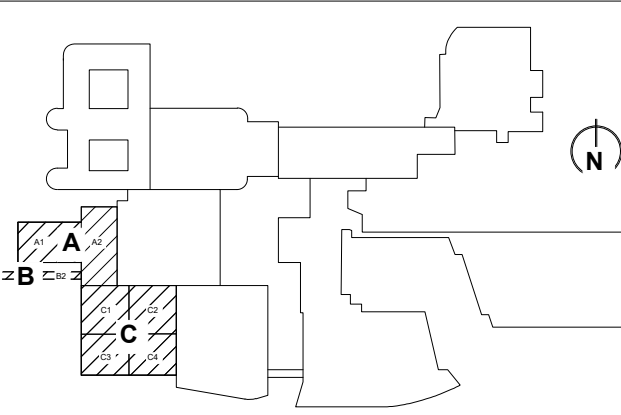
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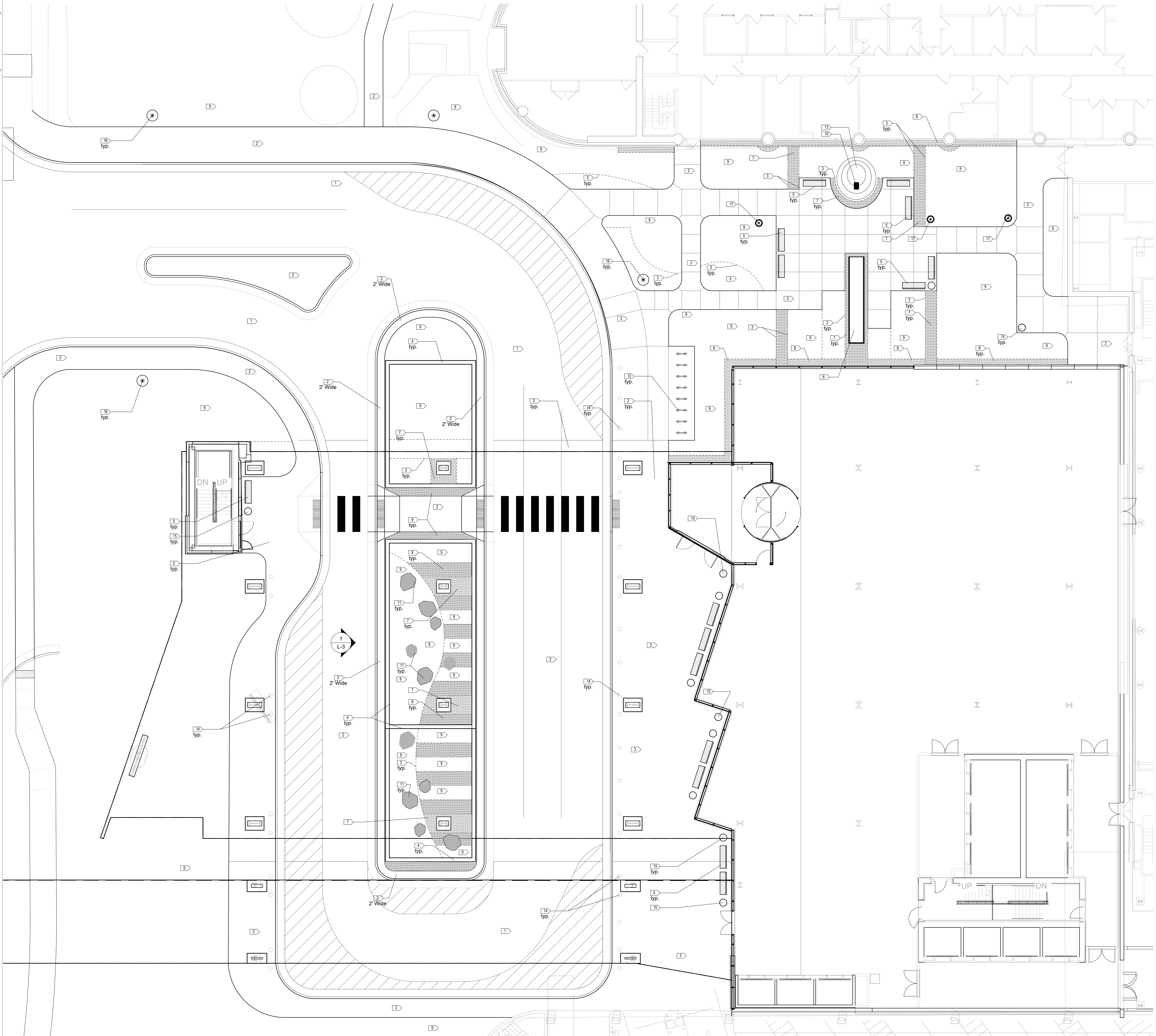
Drawing Title:

LAYOUT AND MATERIALS PLAN
AREA NORTH

Project No.: 00902.00

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L1.1



C PANEL BETWEEN

L-2.1

EXISTING PARKING GARAGE
(TO BE DEMOLISHED)

LEGEND

- EXISTING TREE TO REMAIN
- NEW SHADE TREE
- NEW ORNAMENTAL TREE
- NEW CONIFEROUS TREE
- NEW CONIFEROUS SHRUB
- NEW DECIDUOUS SHRUB
- NEW PERENNIALS
- NEW ORNAMENTAL GRASSES
- METAL EDGING
- TURF SOD/SEED

GENERAL NOTES:

- ALL PLANTS SHALL BE MULCHED WITH SHREDDED HARDWOOD MULCH
- ALL PLANTS SHALL BE IRRIGATED, INCLUDING ALL PLANTED AREAS UNDER THE OVERHANG
- ALL LAWN AREAS SHALL BE SODDED

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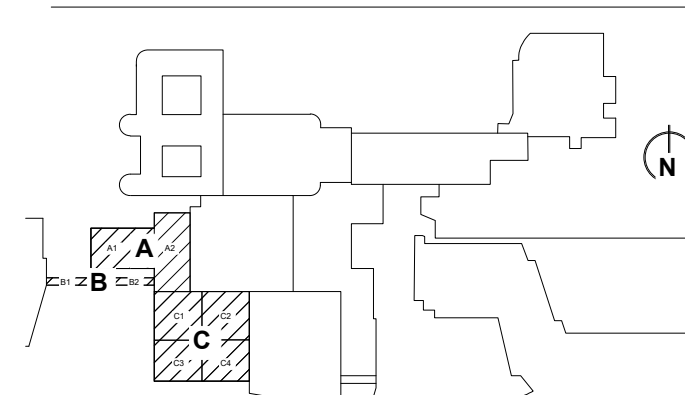
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KEY PLAN

Drawing Title:

PLANTING REFERENCE PLAN

Project No.: 00902.00

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L-2

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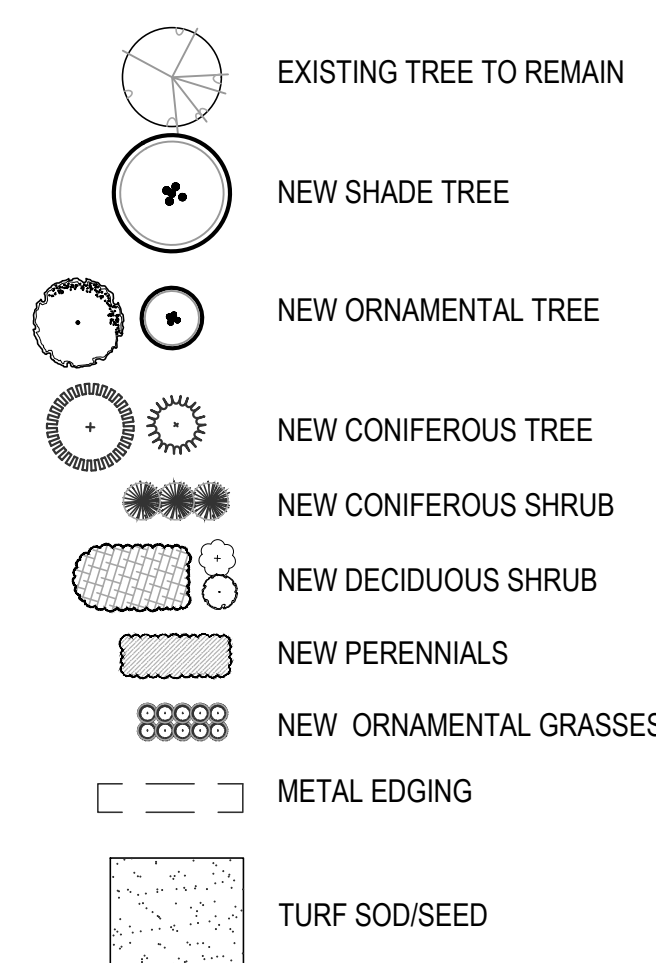
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LEGEND

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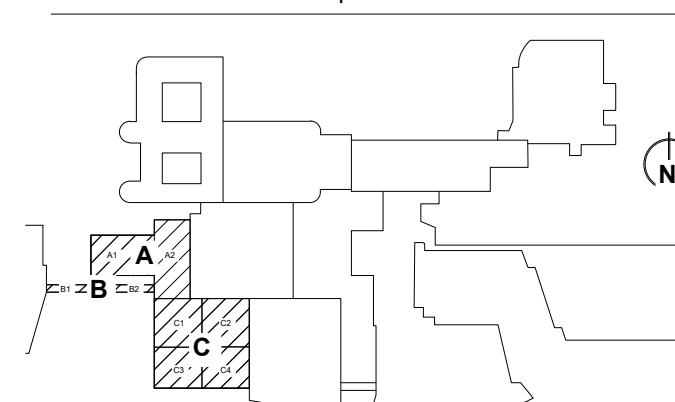
PLANT SCHEDULE

	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	ROOT	NOTES
Deciduous Trees							
Ace / Arm	2	<i>Acer x freemanii 'Armstrong'</i>	Armstrong Maple	2"	As shown	BB	
Ace / psu	2	<i>Acer pseudo-sieboldiana</i>	Korean Maple	8" ht.	As shown	BB	multi-stem
Ame / Aut	1	<i>Amelanchier x grandiflora 'Autumn Brilliance'</i>	Autumn Brilliance Serviceberry	8" ht.	As shown	BB	multi-stem
Cer / can	1	<i>Cercis canadensis</i>	Eastern Redbud	8" ht.	As shown	BB	multi-stem
Til / Ste	2	<i>Tilia tomentosa 'Sterling' PP 6511</i>	Sterling Linden	3"	As shown	BB	
Evergreen Trees							
Tax / Nov	3	<i>Taxus cuspidata 'Nova'</i>	Nova Japanese Yew	24"	As shown	BB	
Evergreen Shrubs							
Tax / Tau	38	<i>Taxus x media 'Tauntonii'</i>	Tauntoni Yew	7 gallon	As shown	Cont.	
Evergreen Shrubs (broadleaf)							
Bux / Gle	17	<i>Buxus x 'Glencoe'</i>	Chicagoland Green Boxwood	5 gallon	As shown	Cont.	
Rho / Pjm	9	<i>Rhododendron x 'PJM'</i>	PJM Rhododendron	7 gallon	5' o.c.	Cont.	
Deciduous Shrubs							
Hyd / Sik	4	<i>Hydrangea quercifolia 'Sikes Dwarf'</i>	Sike's Dwarf Oakleaf Hydrangea	3 gallon	As shown	Cont.	
Rhu / Gro	77	<i>Rhus aromatica 'Gro-low'</i>	Gro-low Sumac	2 gallon	5' o.c.	Cont.	
Perennials							
Euo / Col	55	<i>Euonymus fortunei 'Coloratus'</i>	Purple Wintercreeper	1 gallon	24" o.c.	Cont.	
Ger / Bev	41	<i>Geranium macrorrhizum 'Bevan's Variety'</i>	Bevan's Variety Geranium	1 gallon	24" o.c.	Cont.	
Hem / Hap	19	<i>Hemerocallis x Happy Returns</i>	Happy Returns Daylily	1 gallon	24" o.c.	Cont.	
Hem / Par	24	<i>Hemerocallis x Pardon Me</i>	Pardon Me Daylily	1 gallon	24" o.c.	Cont.	
Hos / Pal	5	<i>Hosta 'Big Daddy'</i>	Big Daddy Hosta	1 gallon	36" o.c.	Cont.	
Hos / Pal	4	<i>Hosta 'Guacamole'</i>	Guacamole Hosta	1 gallon	36" o.c.	Cont.	
Hos / Pal	15	<i>Hosta 'Paul's Glory'</i>	Paul's Glory Hosta	1 gallon	36" o.c.	Cont.	
Hos / Sum	33	<i>Hosta 'Sum and Substance'</i>	Sum and Substance Hosta	1 gallon	36" o.c.	Cont.	
Hos / Str	20	<i>Hosta 'Stirplease'</i>	Stirplease Hosta	1 gallon	24" o.c.	Cont.	
Mon / Mar	7	<i>Morinda didyma 'Marshall's Delight'</i>	Marshall's Delight Bee Balm	1 gallon	30" o.c.	Cont.	
Nep / Wal	21	<i>Nepeta faassenii 'Walker's Low'</i>	Walker's Low Catmint	1 gallon	30" o.c.	Cont.	
Osm / cinn	155	<i>Osmunda cinnamomea</i>	Cinnamon Fern	1 gal	18" o.c.	Cont.	
Pac / Gre	492	<i>Pachysandra terminalis 'Green Carpet'</i>	Green Carpet Pachysandra	4"	18" o.c.	Cont.	
Ornamental Grasses							
Cal / Ove	8	<i>Calamagrostis acutiflora 'Overdam'</i>	Overdam Feather Reed Grass	1 gallon	30" o.c.	Cont.	
Car / pen	155	<i>Carex pennsylvanica</i>	Pennsylvania Sedge	1 gallon	18" o.c.	Cont.	
Des / ces	54	<i>Deschampsia cespitosa</i>	Tufted hair grass	1 gallon	30" o.c.	Cont.	
Hak / Aur	48	<i>Hakonechloa macra 'Aureola'</i>	Golden Variegated Hakone Grass	1 gallon	24" o.c.	Cont.	
Pha / Fee	60	<i>Phalaris arundinacea 'Feeney'</i>	Strawberries and Cream Ribbon Grass	1 gallon	30" o.c.	Cont.	
Mol / Sky	17	<i>Molinia caerulea arundinacea 'Skyracer'</i>	Molinia Skyracer	1 gallon	30" o.c.	Cont.	
Spo / Tar	18	<i>Sporobolus heterolepis 'Tara'</i>	Dwarf Prairie Dropseed Tara	1 gallon	30" o.c.	Cont.	

NOT FOR CONSTRUCTION

FOR REFERENCE ONLY

No. Description Date


KEY PLAN

Drawing Title:

PLANTING PLAN AREA NORTH

Project No.: 009602.00

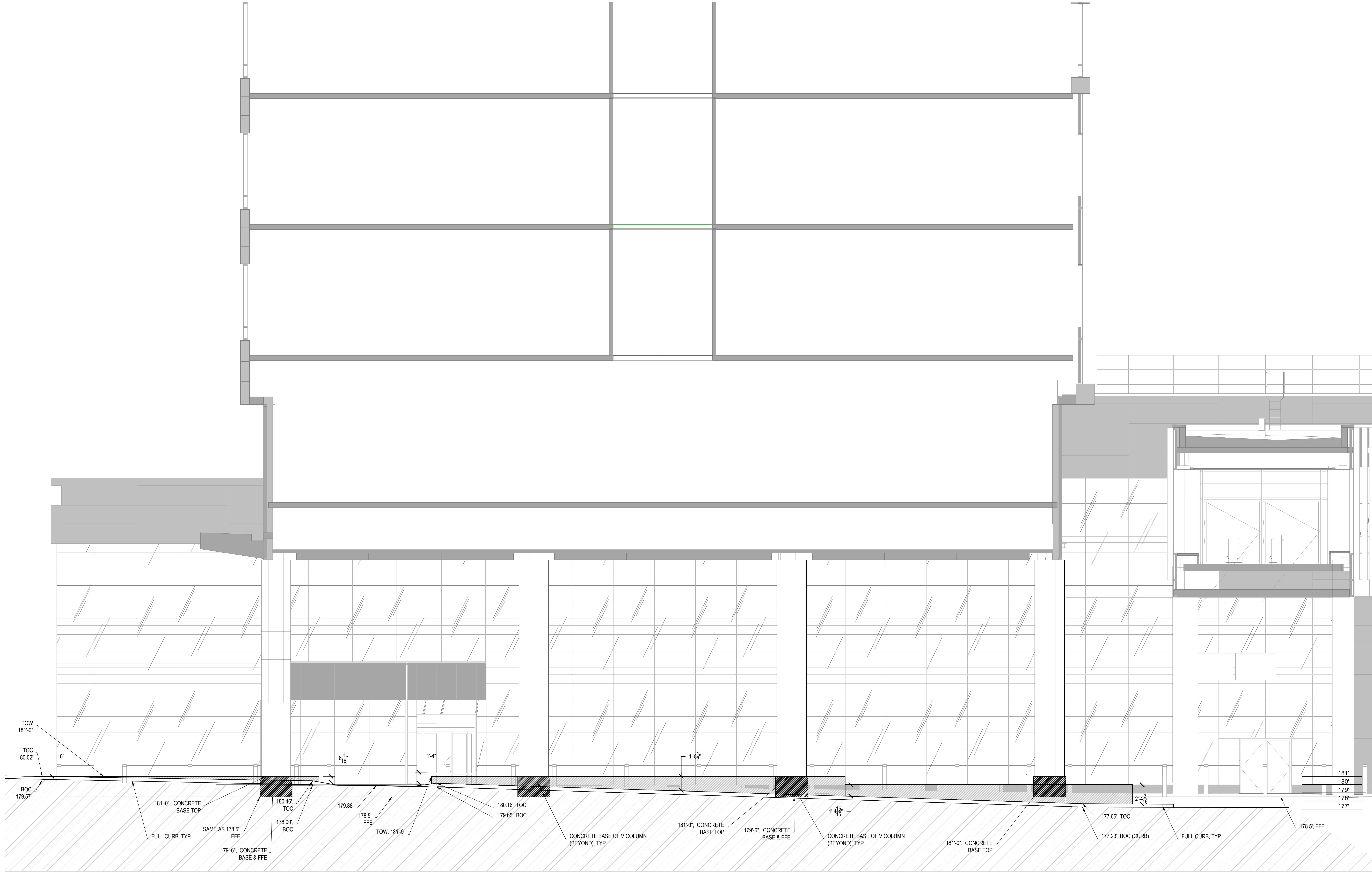
Checked by: Checker

L-2.1

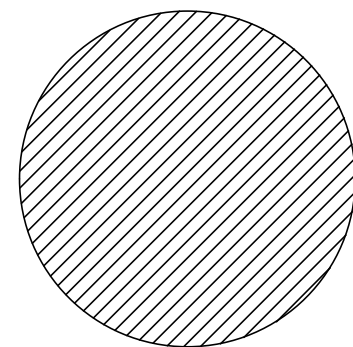
SCALE IN FEET



Autodesk Docs/009002.00_Froedter Health Tower SPT13_A.dgn



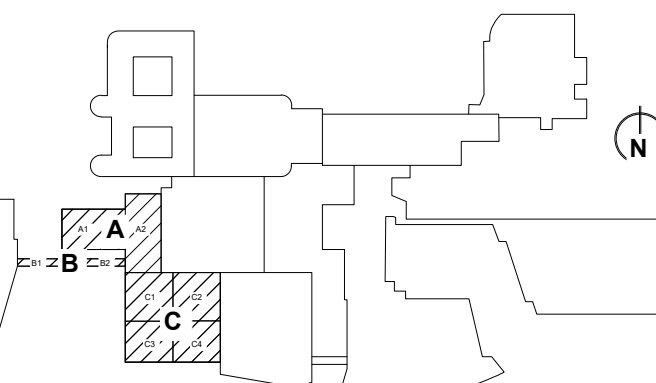
1 DROP-OFF ISLAND PLANTER ELEVATION - LOOKING EAST
L220.1 SCALE: 1/4"=1'-0"



**NOT FOR
CONSTRUCTION**

FOR REFERENCE ONLY

No. Description Date



KEY PLAN

Drawing Title:

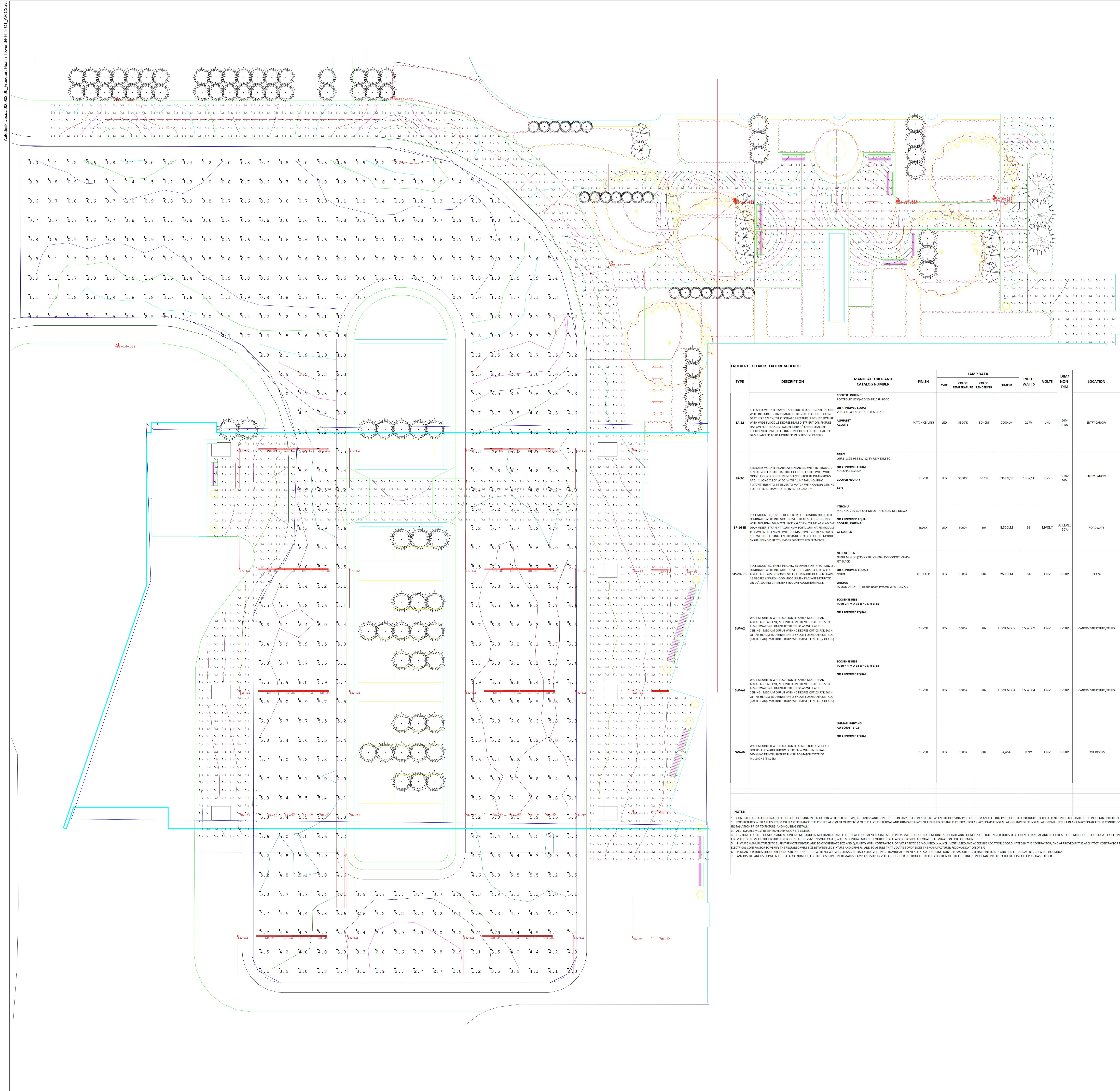
**DROP-OFF ISLAND
PLANTER ELEVATION
- LOOKING EAST**

Project No.: 009002.00

Checked by:

Checker

L-3

[illegible]

GENERAL SHEET NOTES



HOSPITAL EXPANSION

CANNONDESIGN

225 North Michigan Avenue, Suite 1100
Chicago, Illinois 60601
T: 312.332.9600

Baltimore ■ Boston ■ Buffalo ■ Chicago ■ Houston
Irvine ■ Los Angeles ■ Mumbai ■ New York
St. Louis ■ San Diego ■ Toronto ■ Washington DC

Mortenson Construction
Construction Manager
17975 W Sarah Lane
Brookfield, WI 53045
T: 262.879.2500

American Design
Associate Architect
1661 N Water Street, #307
Milwaukee, WI 53202
T: 414.446.3715

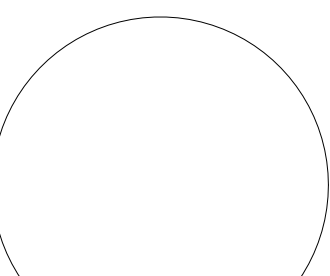
BR+A
MEP/FP Engineering
5 Madison Avenue, 10th Floor
New York, NY 10016
Tel: 212 213 0000

Graef USA
Civil and Structural Engineering
Honey Creek, Corporate Center
125 S 84th Street, Suite 401
Milwaukee, WI 53214
T: 414.259.1500

Lorch Bates
Vertical Transportation
3 S Jefferson Street, Suite 760
Chicago, IL 60661
T: 312.625.4804

Rippe Associates
Food Service Design
50 Red Circle Drive, Suite 100
Minneapolis, MN 55343
T: 952.933.0313

SHEET KEYNOTES



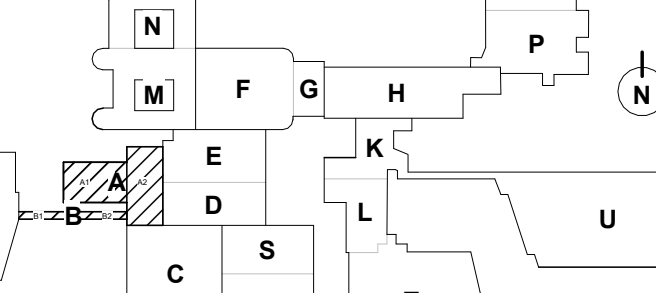
**NOT FOR
CONSTRUCTION**

 FOR REFERENCE ONLY

SHEET LEGEND

DESIGN REVIEW BOARD 1.18.2024

No.	Description	Date
-----	-------------	------



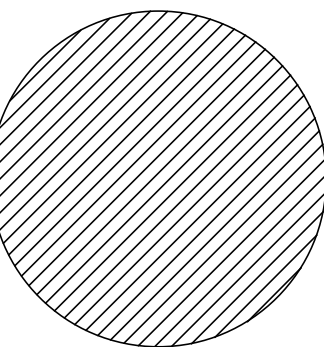
KEY PLAN

Drawing Title:

LIGHTING FIXTURE SCHEDULE AND PHOTOMETRICS

Project No.: 006902.00	Checked by:	Checked
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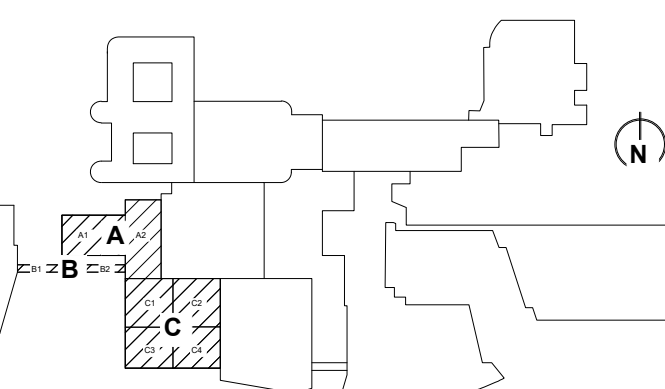
E1



NOT FOR CONSTRUCTION

FOR REFERENCE ONLY

No.	Description	Date
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KEY PLAN

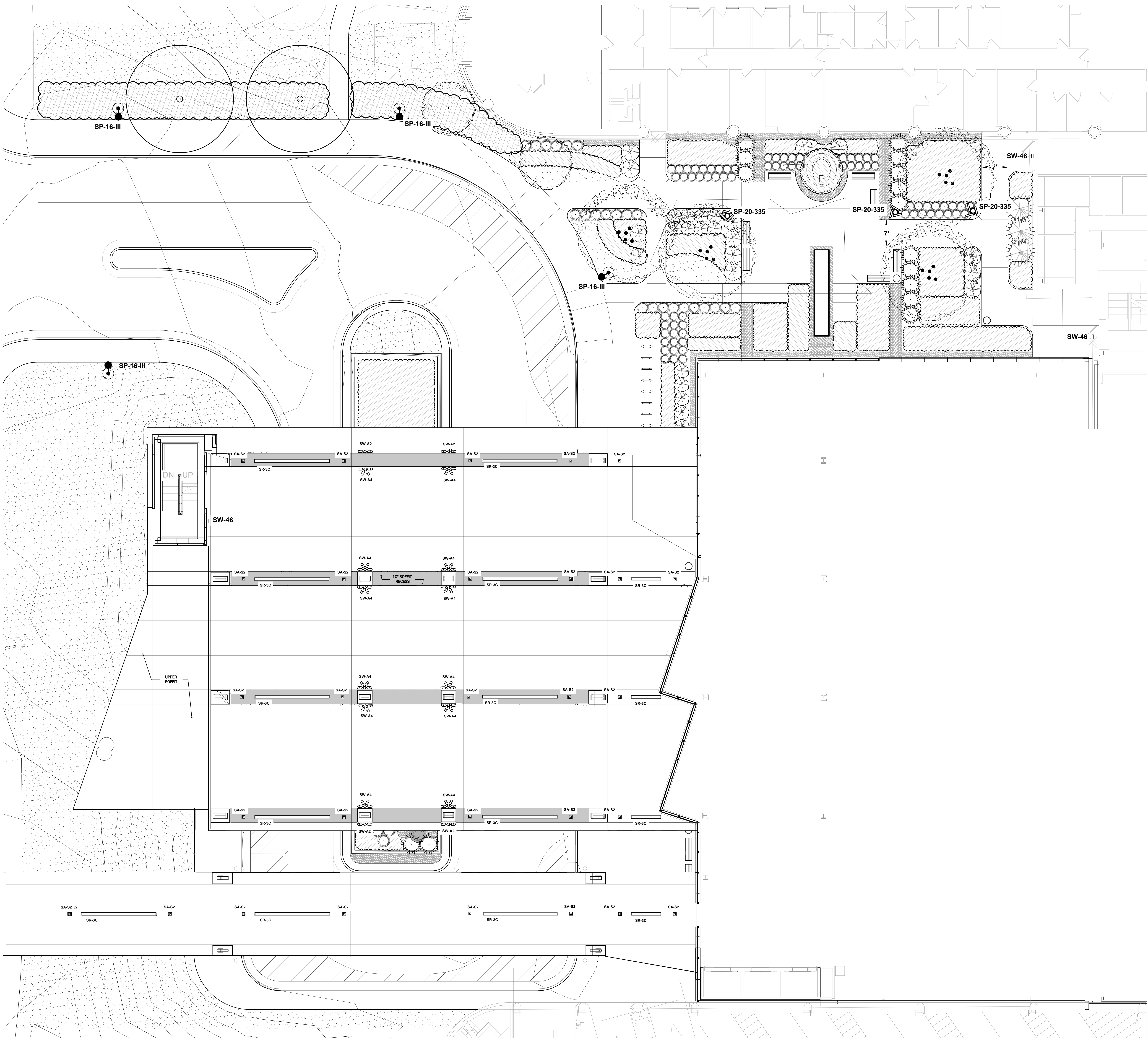
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LIGHTING PLAN

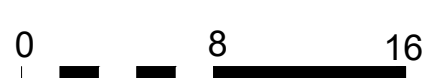
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Checked by: Checker

E2



SCALE IN FEET

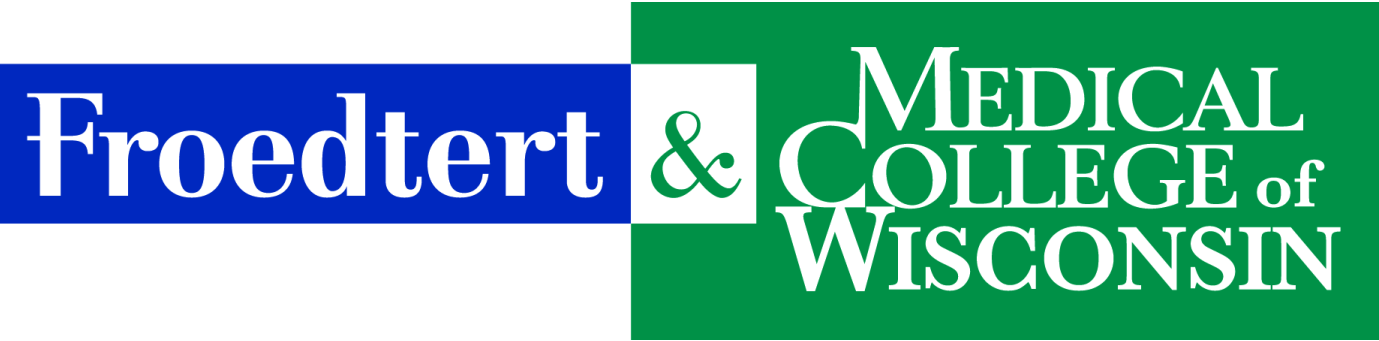


FROEDTERT AND THE MEDICAL COLLEGE OF WISCONSIN

Hospital Expansion

Wauwatosa Design Review Board
Submission: January 9th 2024
Presentation: January 18th 2024





HOSPITAL EXPANSION

9200 West Wisconsin Ave
Milwaukee, WI 53226

The Froedtert Hospital Expansion Project is designed to provide *fostering environments of healing, learning and wellness that honor the evolving human experience and needs of our diverse teams and communities.*

The project submitted for review includes 225,280 gross square feet of new construction and will provide five new levels of inpatient care floors, with four planned for immediate construction, as well as a new main lobby expansion and bridge connection to the new parking structure being constructed across 92nd Street.

The new expansion will provide a new gateway to the campus, finding inspiration in the Doyne avenue design precedents while shaping a new identity for the future of the campus. The design is meant to be a companion to the adjacent Center for Advanced Care, completed in 2020, extending the design brand established by that project into the new expansion.

Context of Existing Facilities and Surroundings

The project site is an open parcel of land within the Froedtert Hospital land holdings – a long term lease from Milwaukee County. The current site is used for a surface drop-off/pick-up at West Clinics Building entrance to the east and parking garage entry/exit to the south. The parking structure located to the south (commonly known as Parking Area 1) will be demolished as part of the master plan. The West Clinics building (1990) is located immediately to the east of Phase 1. The new building will tie directly into the West Clinics building at Levels 1, 2, 3 and 4 via fire-rated openings between the structures. The buildings will act independently from a life safety perspective. The West Hospital Building (1980) is located to the north of the new tower and will remain untouched.

Booklet

- G-1 TITLE SHEET
- G-2 INDEX
- G-3 CAMPUS MAP / SITE PHOTOS
- G-4 SITE PHOTOS

- A-1 SITE PLAN
- A-2 LEVEL 03.5 PLAN (BRIDGE LEVEL)
- A-3 LEVEL 04 PLAN
- A-4 LEVEL 05-09 PLAN (TYPICAL INPATIENT)
- A-5 ROOF PLAN
- A-6 SOUTH VIEW
- A-7 SOUTHWEST VIEW
- A-8 BRIDGE VIEW
- A-9 NORTHWEST VIEW
- A-10 NORTH VIEW
- A-11 FACADE PATTERN DETAIL
- A-12 DIGITAL MATERIALS
- A-13 WEST SECTION
- A-14 BRIDGE NORTH ELEVATIONS
- A-15 BRIDGE SOUTH ELEVATIONS
- A-16 SOUTH ELEVATION
- A-17 NORTH ELEVATION
- A-18 EAST ELEVATION
- A-19 WEST ELEVATION
- A-20 WALL SECTIONS

Sheets

- C-1 EXISTING CONDITIONS
- C-2 SITE PLAN
- C-3 SITE GRADING PLAN
- C-4 SITE UTILITY PLAN

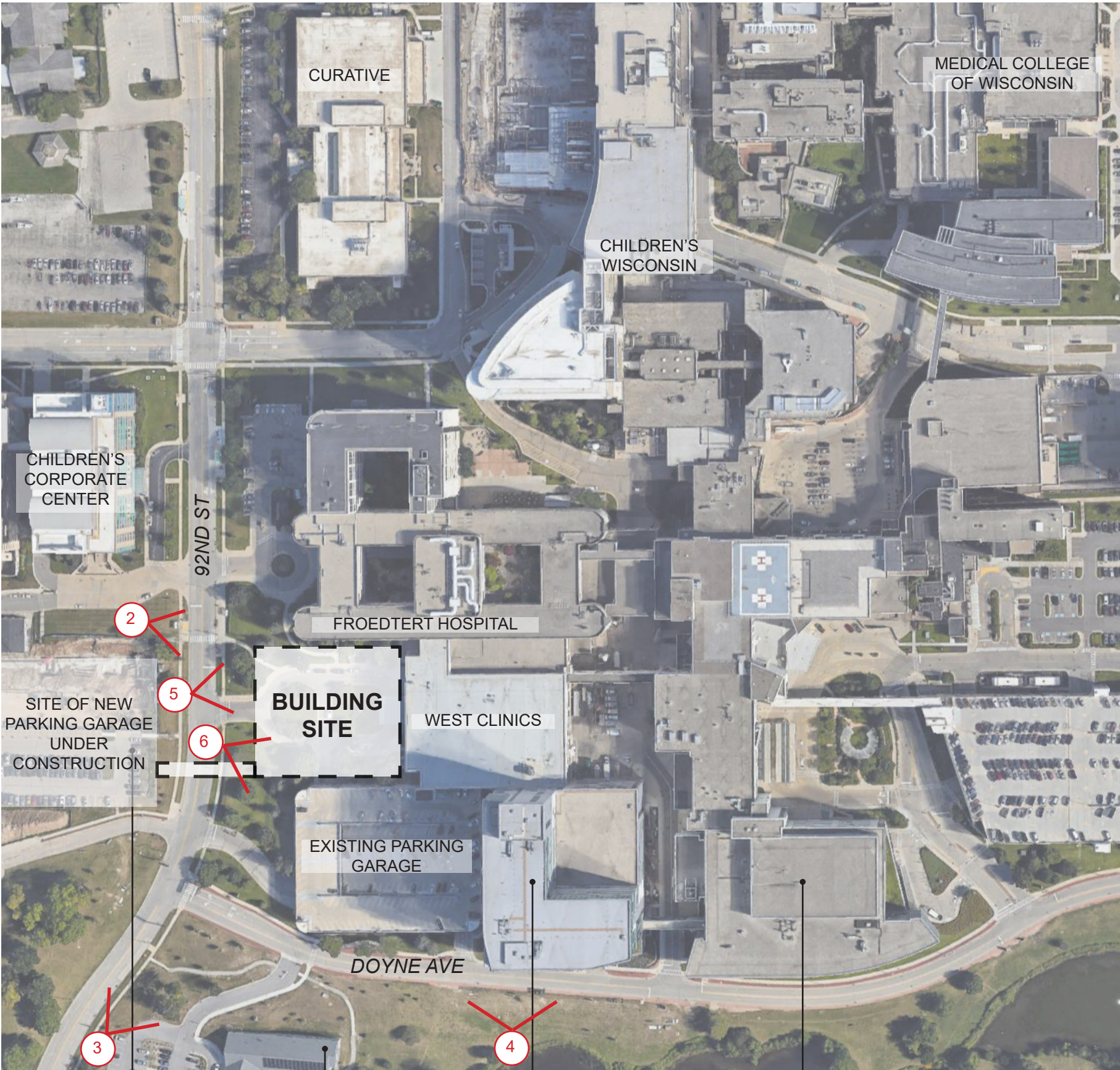
- L-1 LAYOUT AND MATERIALS REFERENCE PLAN
- L-1.1 LAYOUT AND MATERIALS PLAN AREA NORTH
- L-2 PLANTING REFERENCE PLAN
- L-2.1 PLANTING PLAN AREA NORTH
- L-3 DROP OFF ISLAND PLANTER ELEVATION

- E-1 LIGHT FIXTURE SCHEDULE AND PHOTOMETRICS
- E-2 LIGHTING PLAN
- E-3 LIGHTING FIXTURE CUT SHEETS



JANUARY 18, 2024

FROEDTERT HOSPITAL EXPANSION



PARKING GARAGE UNDER CONSTRUCTION
KATHY'S HOUSE
CENTER FOR ADVANCED CARE

FROEDTERT HOSPITAL EXPANSION
CAMPUS MAP / SITE PHOTOS



1. OVERHEAD VIEW FROM WEST



2. VIEW FROM WEST



6. EXISTING CENTER FOR ADVANCED CARE



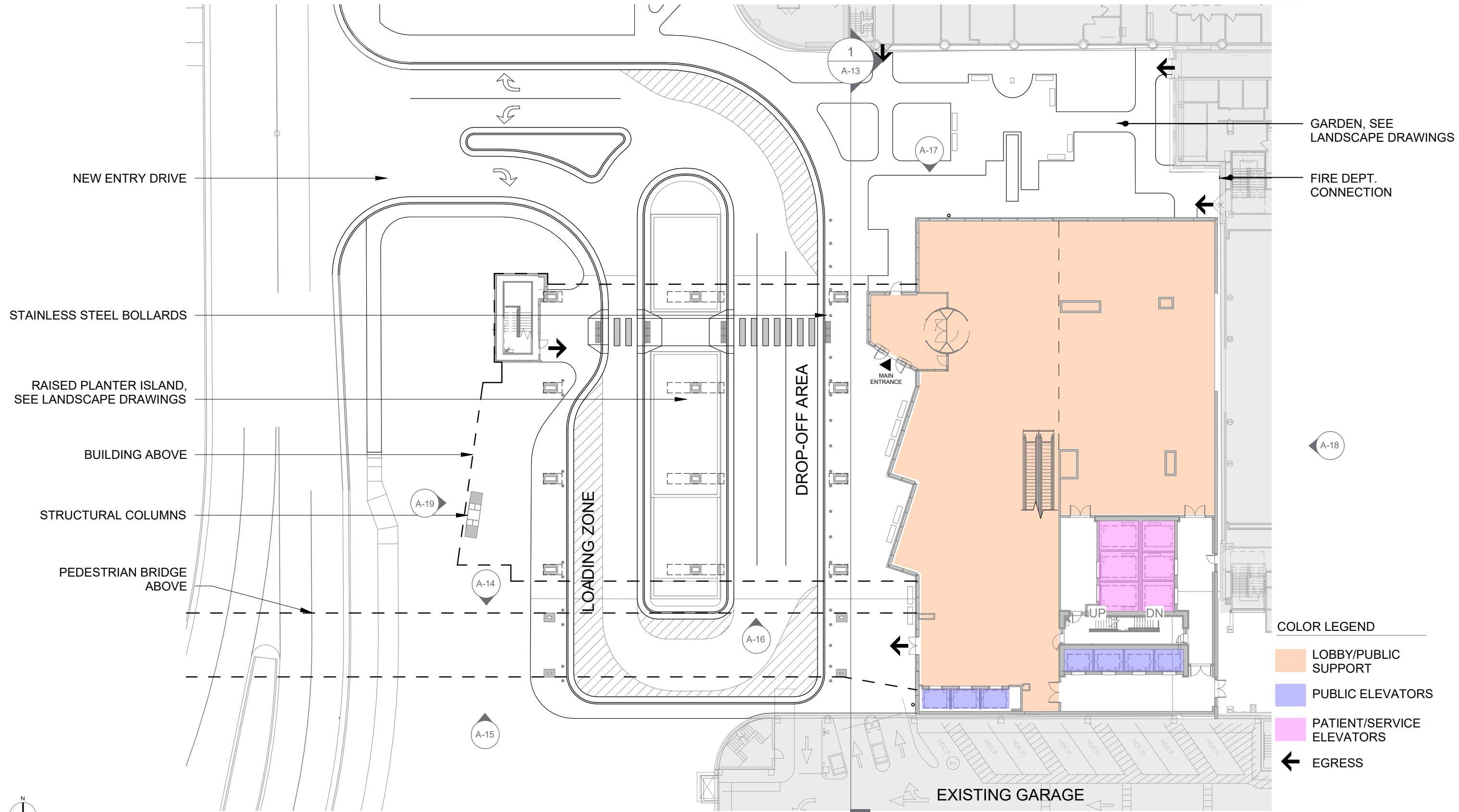
4. EXISTING CENTER FOR ADVANCED CARE



5. EXISTING WEST CLINICS ENTRANCE



3. OVERHEAD VIEW FROM SOUTH



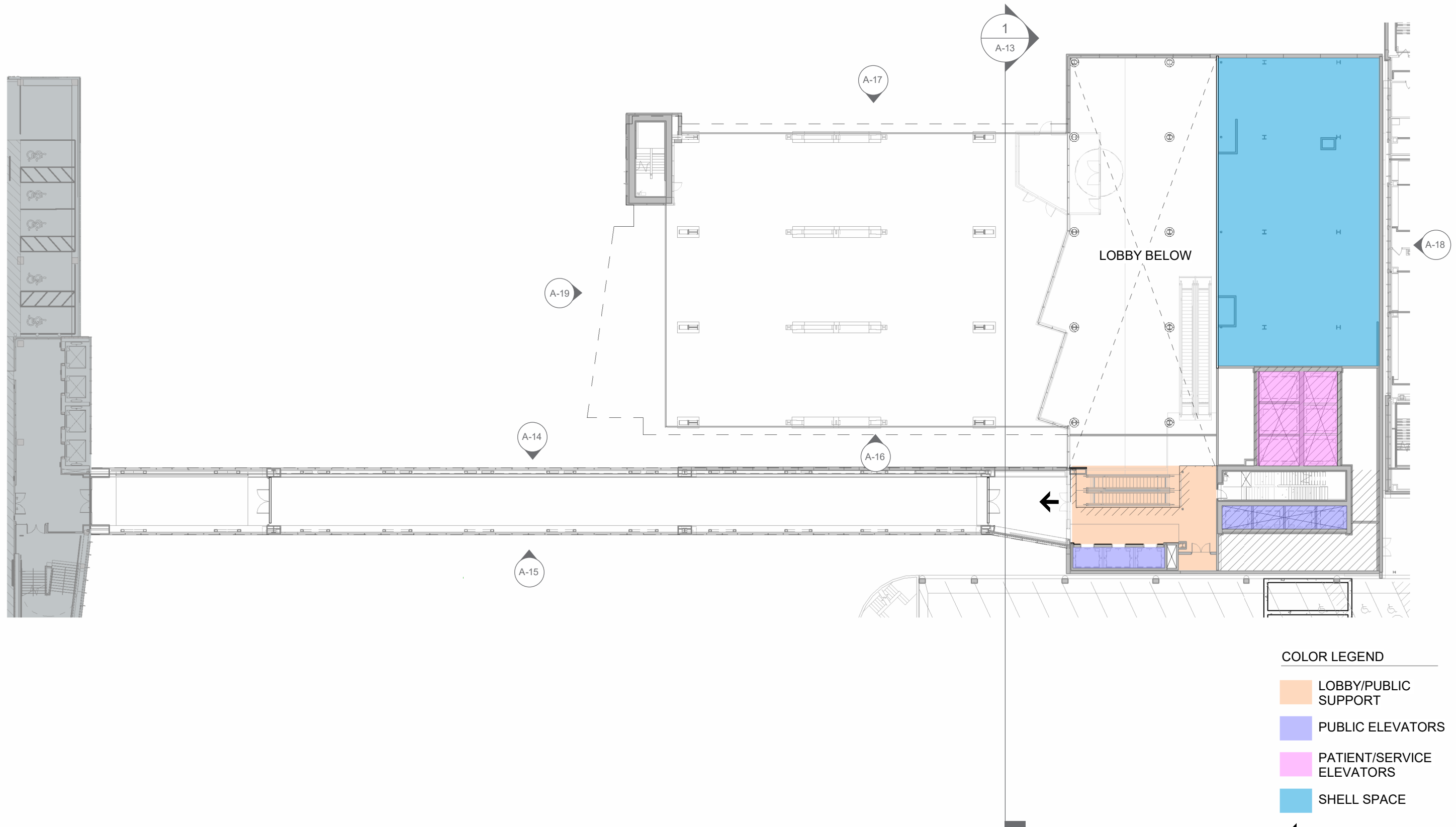
SCALE 1/32" = 1'



JANUARY 18, 2024

FROEDTERT HOSPITAL EXPANSION SITE PLAN

0 64



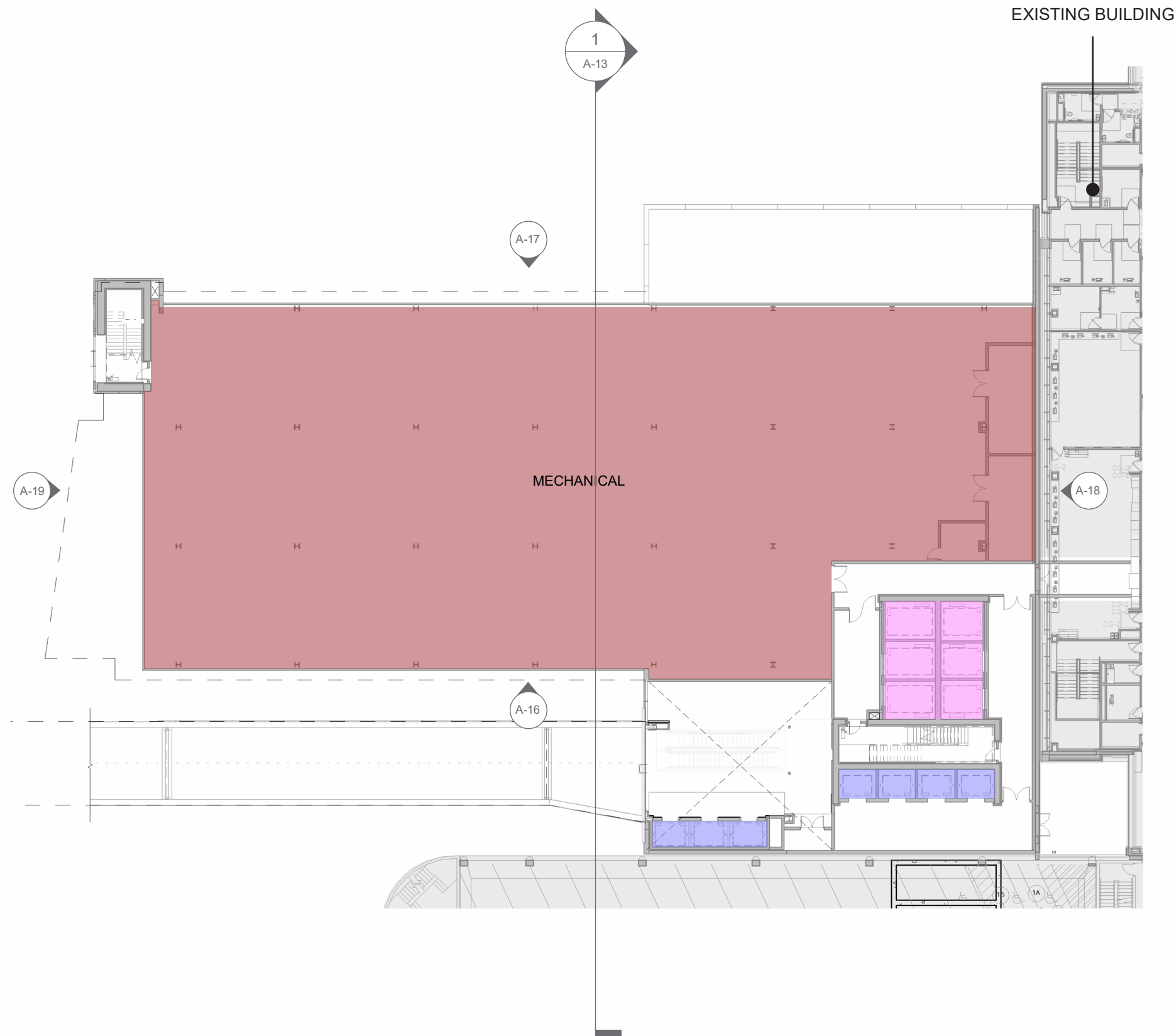
COLOR LEGEND

- LOBBY/PUBLIC SUPPORT
- PUBLIC ELEVATORS
- PATIENT/SERVICE ELEVATORS
- SHELL SPACE
- EGRESS



SCALE 1/32" = 1'

0 64



COLOR LEGEND

- SHELL SPACE
- MECHANICAL
- PUBLIC ELEVATORS
- PATIENT/SERVICE ELEVATORS

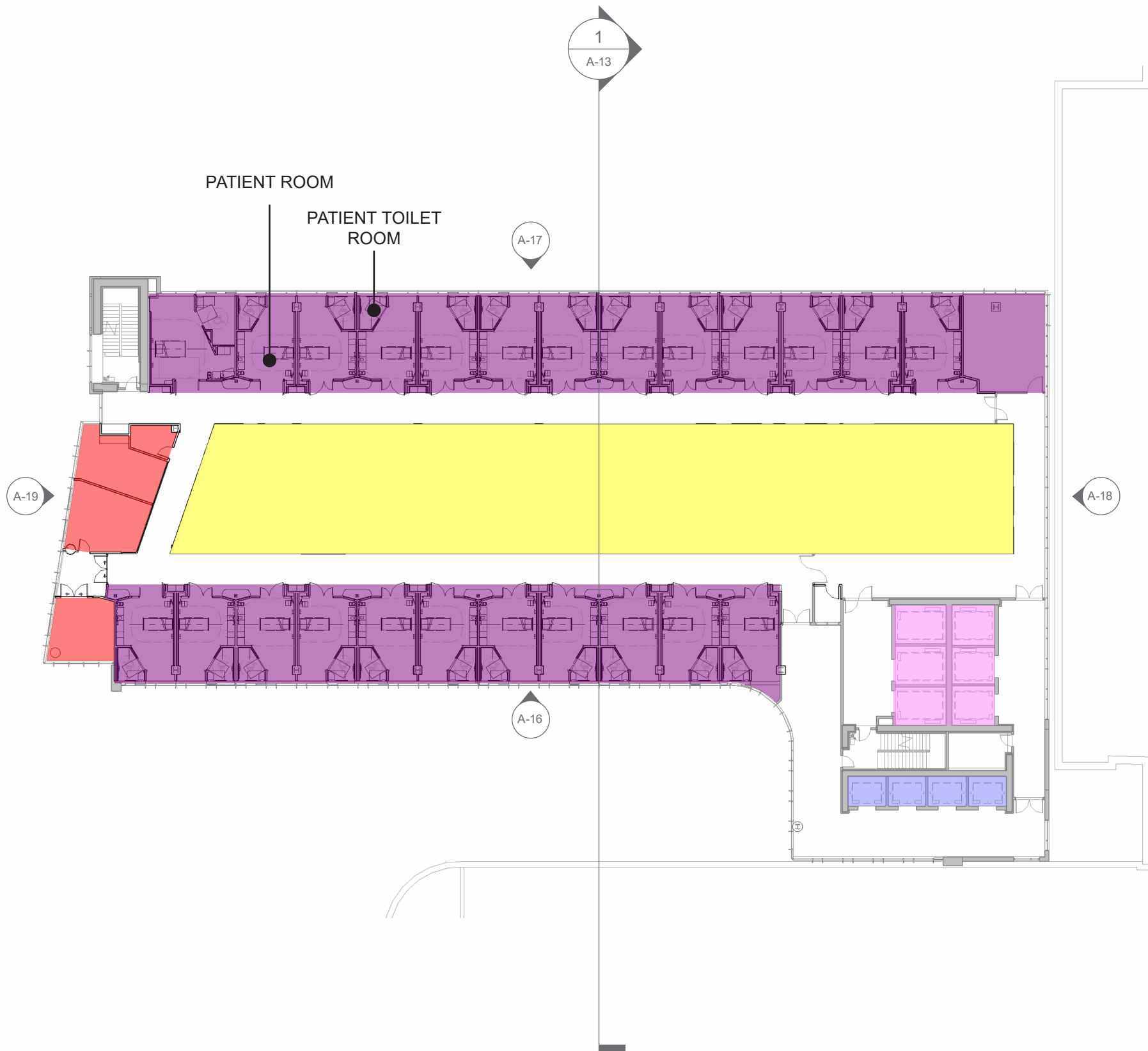


SCALE 1/32" = 1'



FROEDTERT HOSPITAL EXPANSION LEVEL 04 PLAN





- COLOR LEGEND
- INPATIENT CARE
 - CLINICAL SUPPORT
 - STAFF/PATIENT SUPPORT
 - PUBLIC ELEVATORS
 - PATIENT/SERVICE ELEVATORS



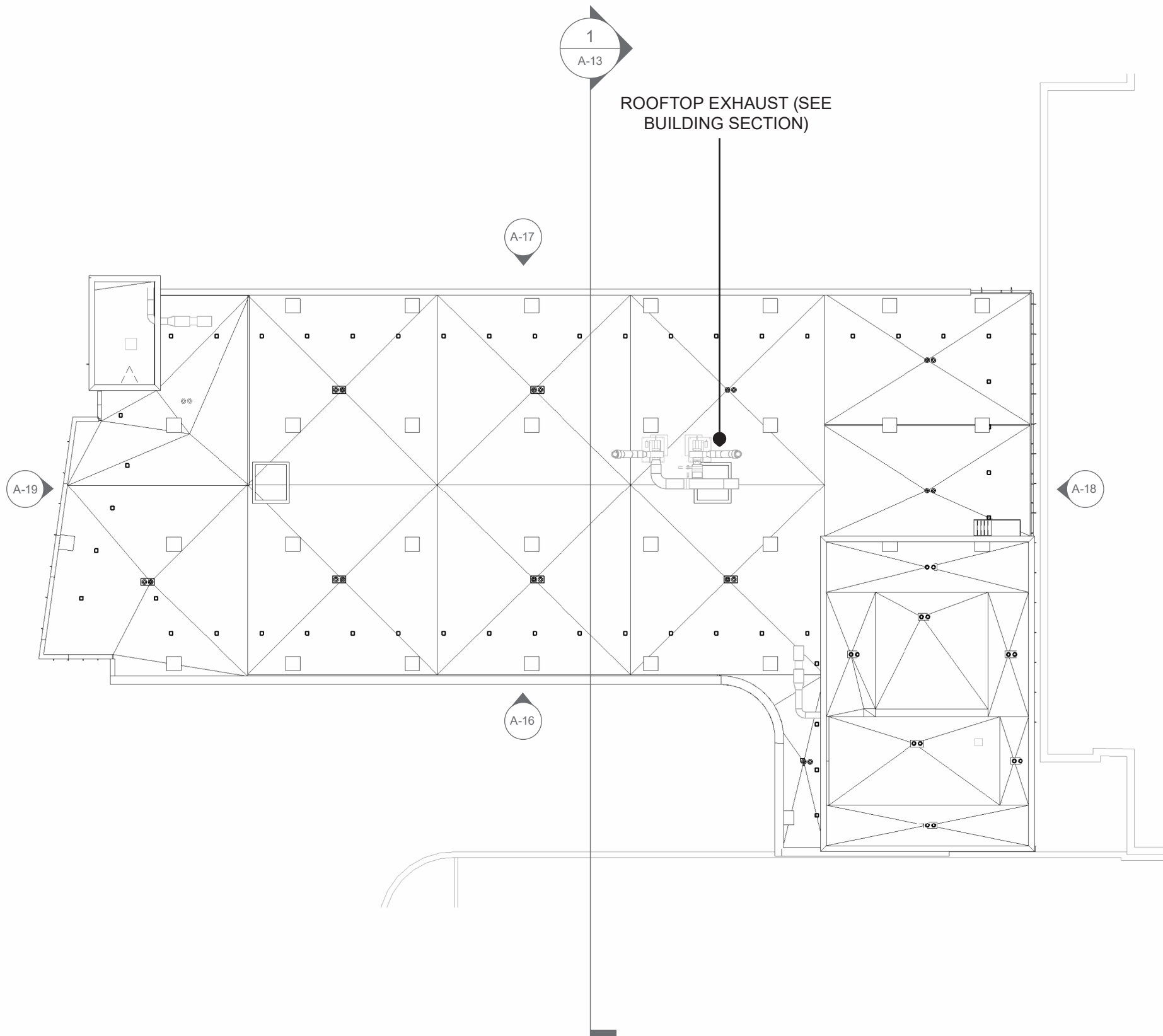
SCALE 1/32" = 1'



JANUARY 18, 2024

FROEDTERT HOSPITAL EXPANSION LEVEL 05-09 PLAN (TYPICAL INPATIENT)





SCALE 1/32" = 1'



JANUARY 18, 2024

FROEDTERT HOSPITAL EXPANSION ROOF PLAN













Southwest Tower Detail



Existing CFAC Images



GL-2S (Accent Spandrel)

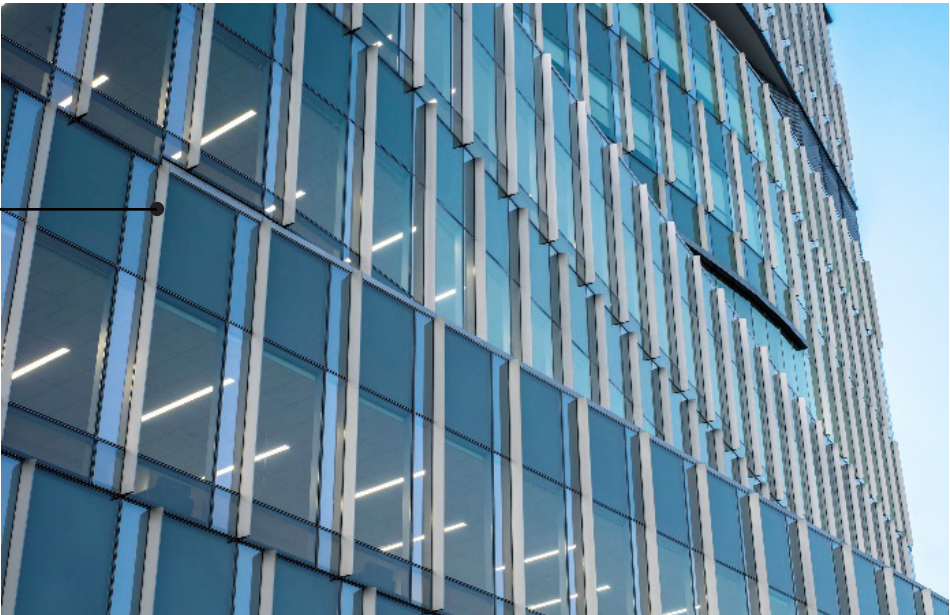
GL-2 (Accent Vision)

GL-1 (Vision)

GL-1S (Spandrel)

GL-3 (Frosted Glass at Patient Bathrooms)

Aluminum Mullion Extension



(See Material Palette
Slide for Sample Images)

GL-2 (Reflective)

GL-1

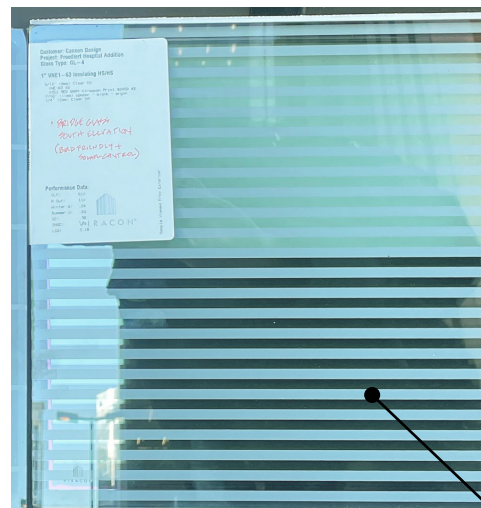
GL-3 (Frosted)

Composite Metal Panel

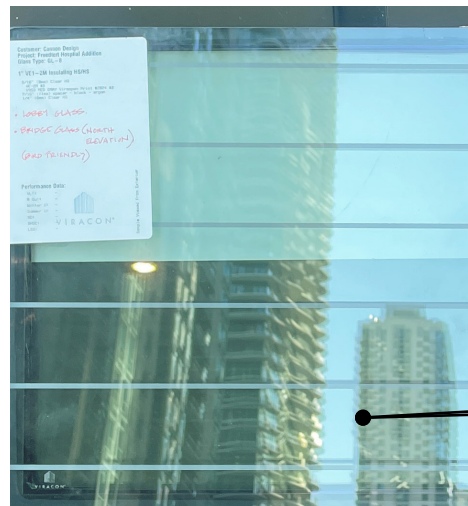
Precast Concrete

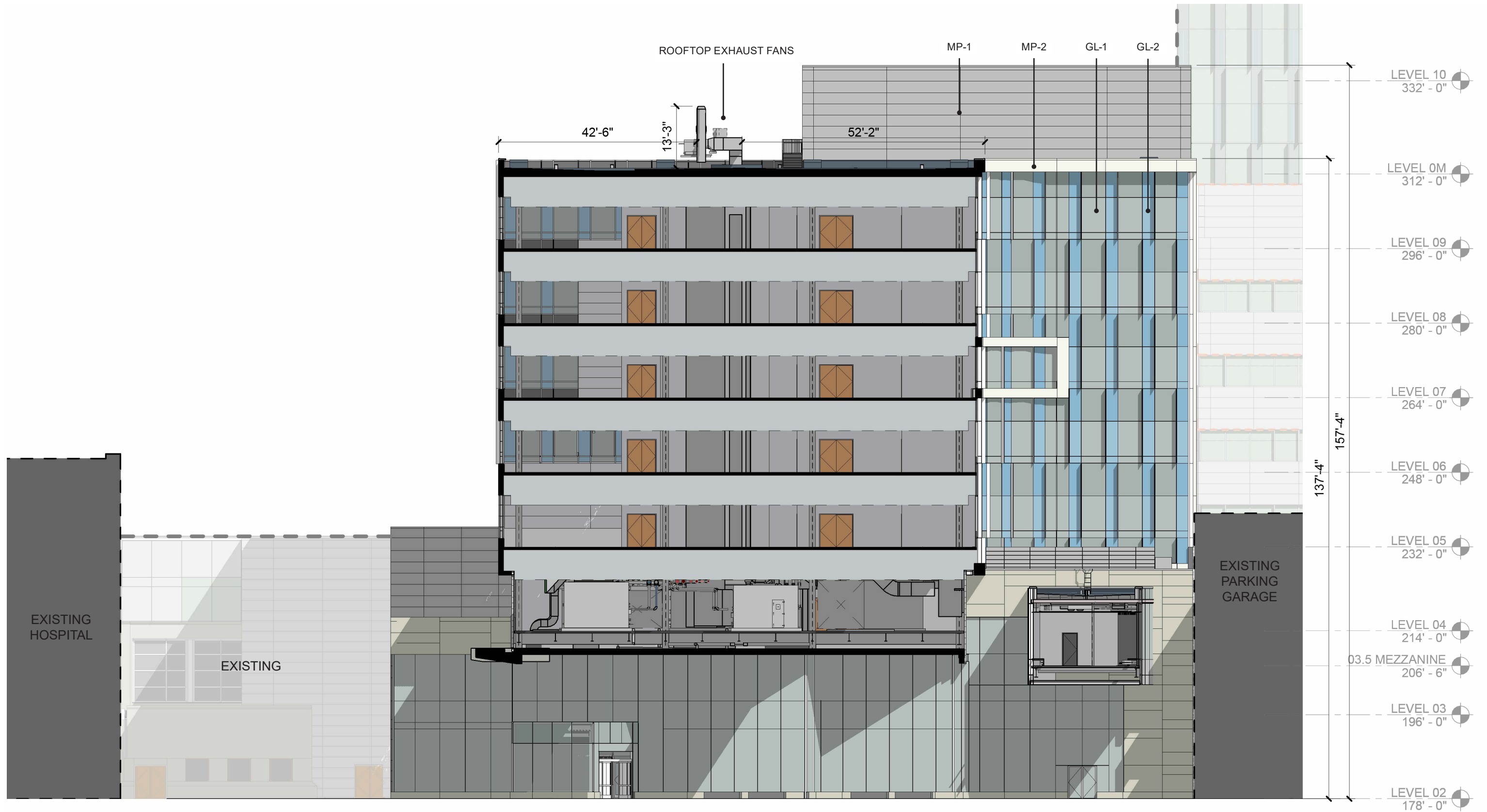


GL-4 (Bird-Friendly Lined Pattern)



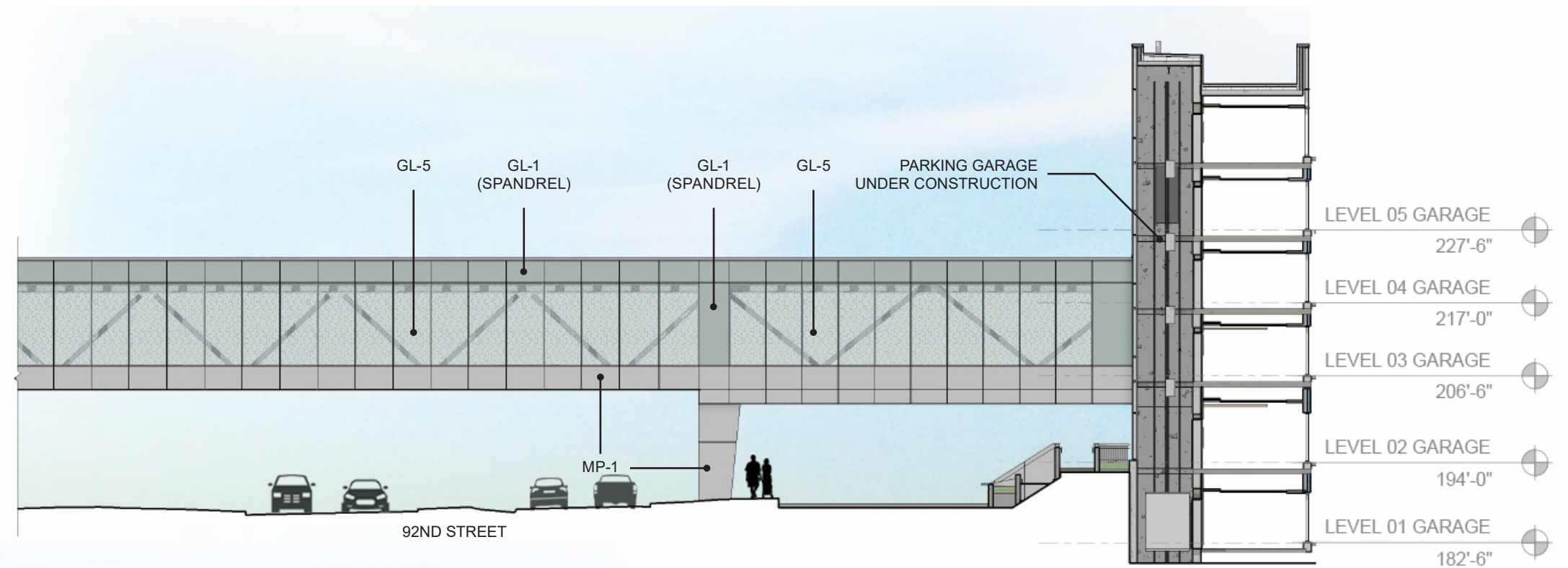
GL-5 (Bird-Friendly Lined Pattern)



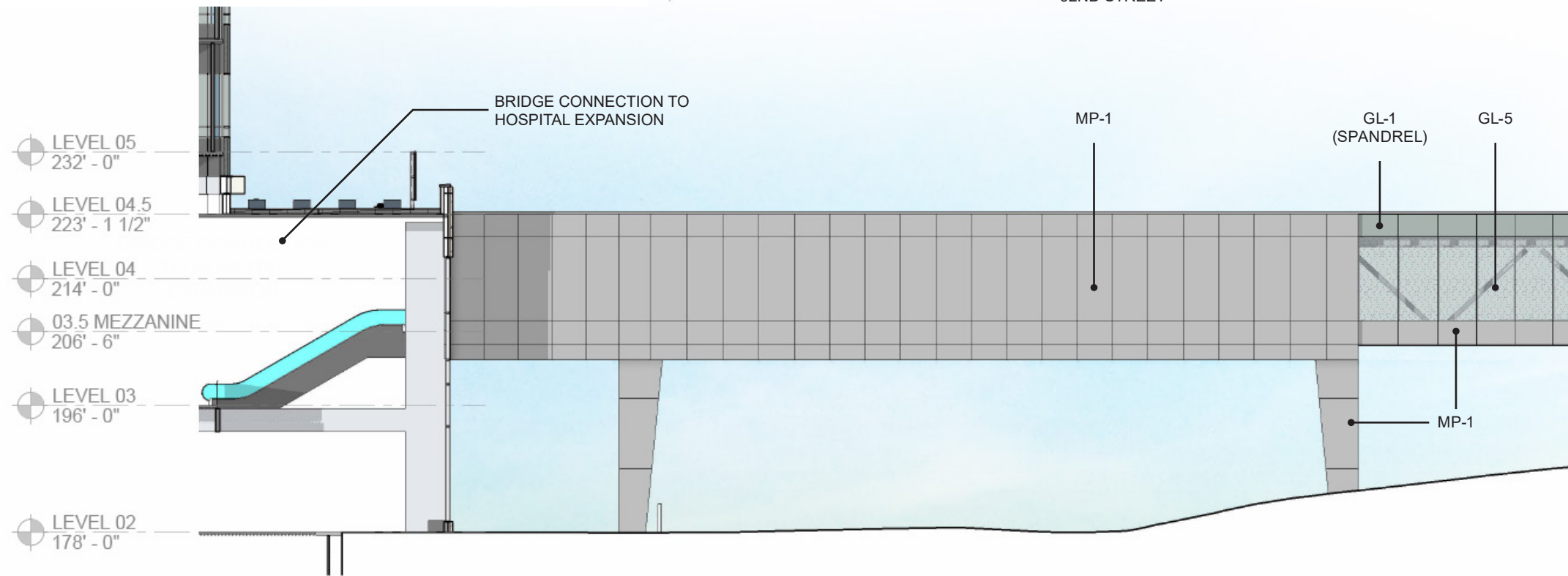


SCALE 1" = 20'





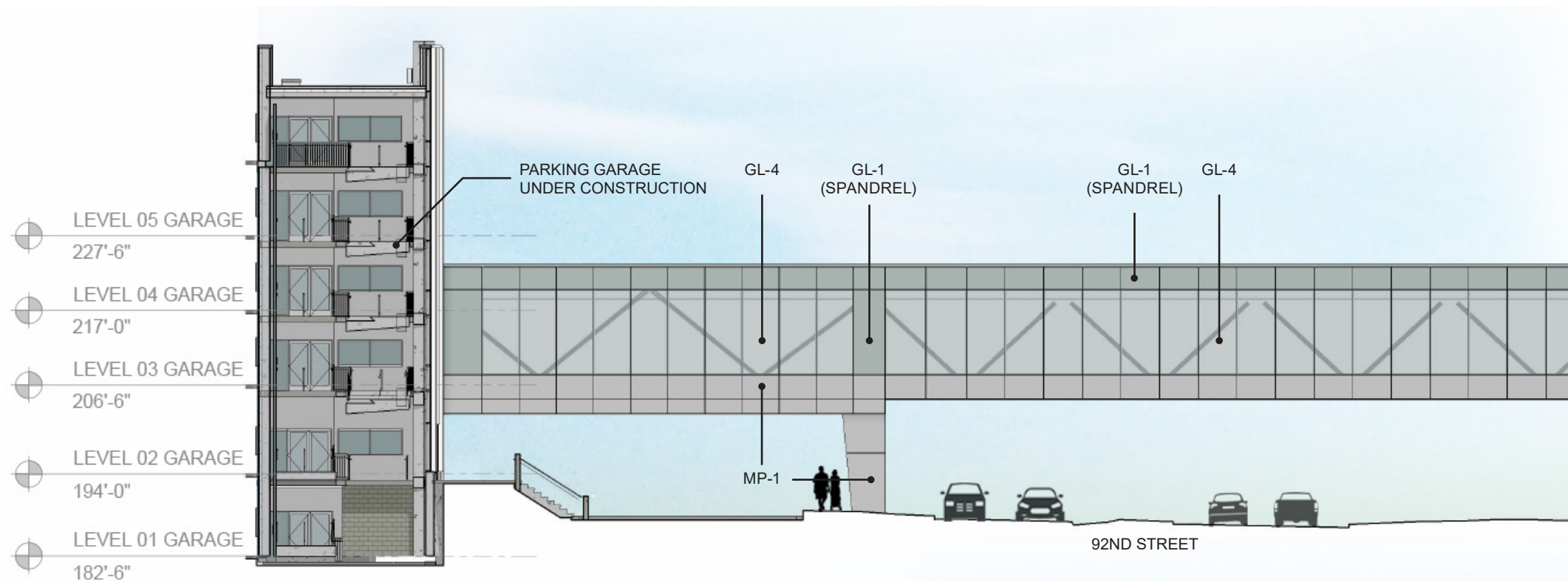
NORTHWEST ELEVATION



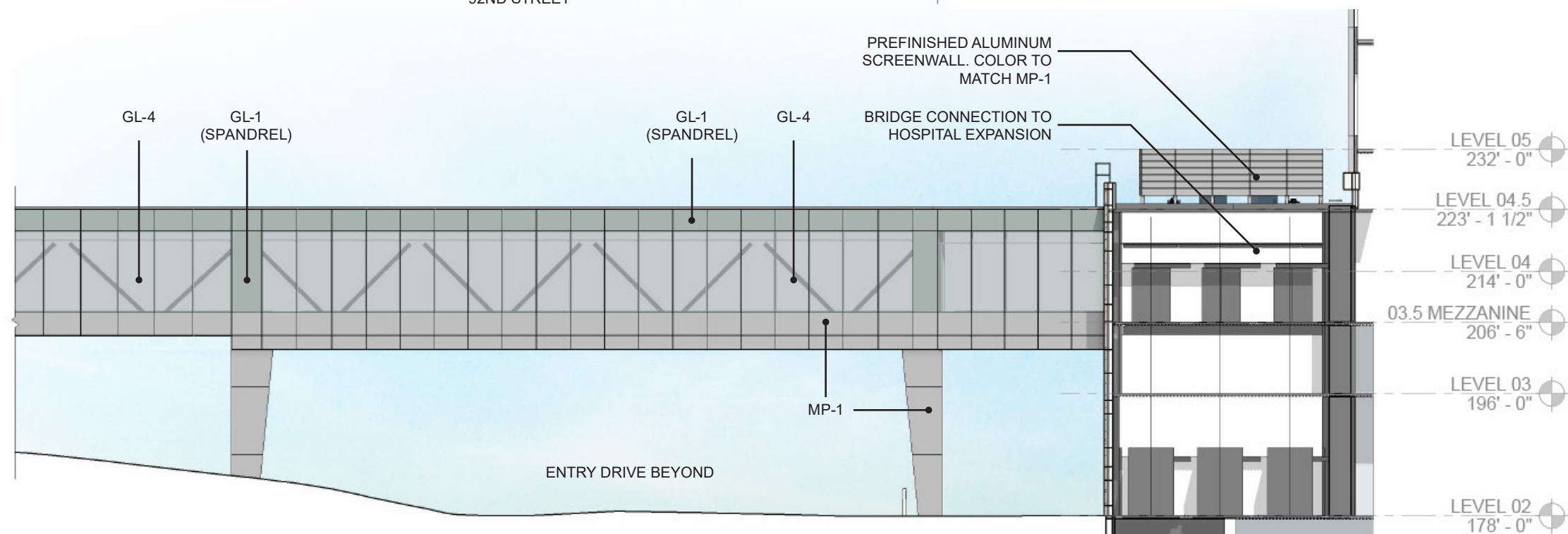
NORTHEAST ELEVATION

SCALE 1" = 20'





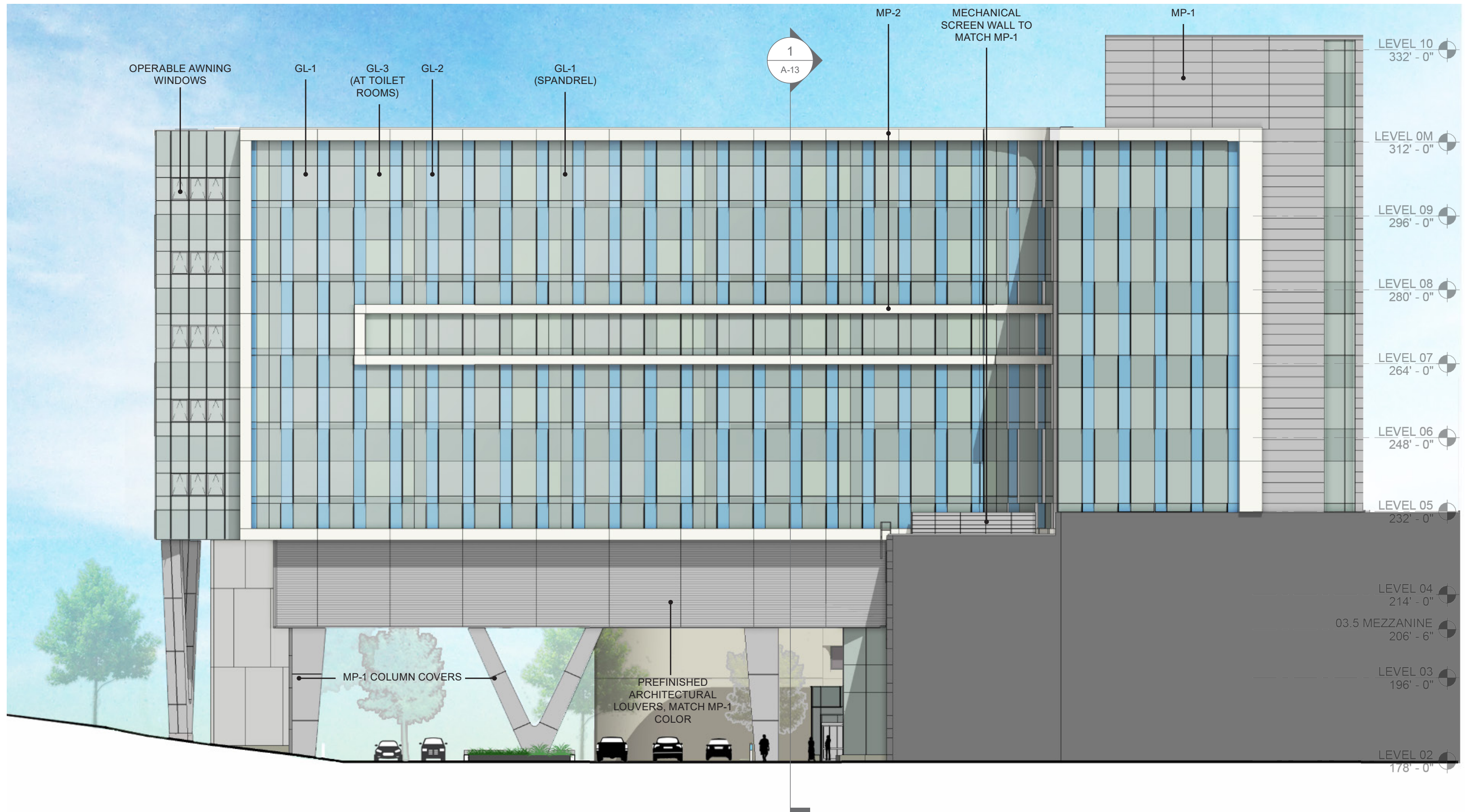
SOUTHWEST ELEVATION



SOUTHEAST ELEVATION

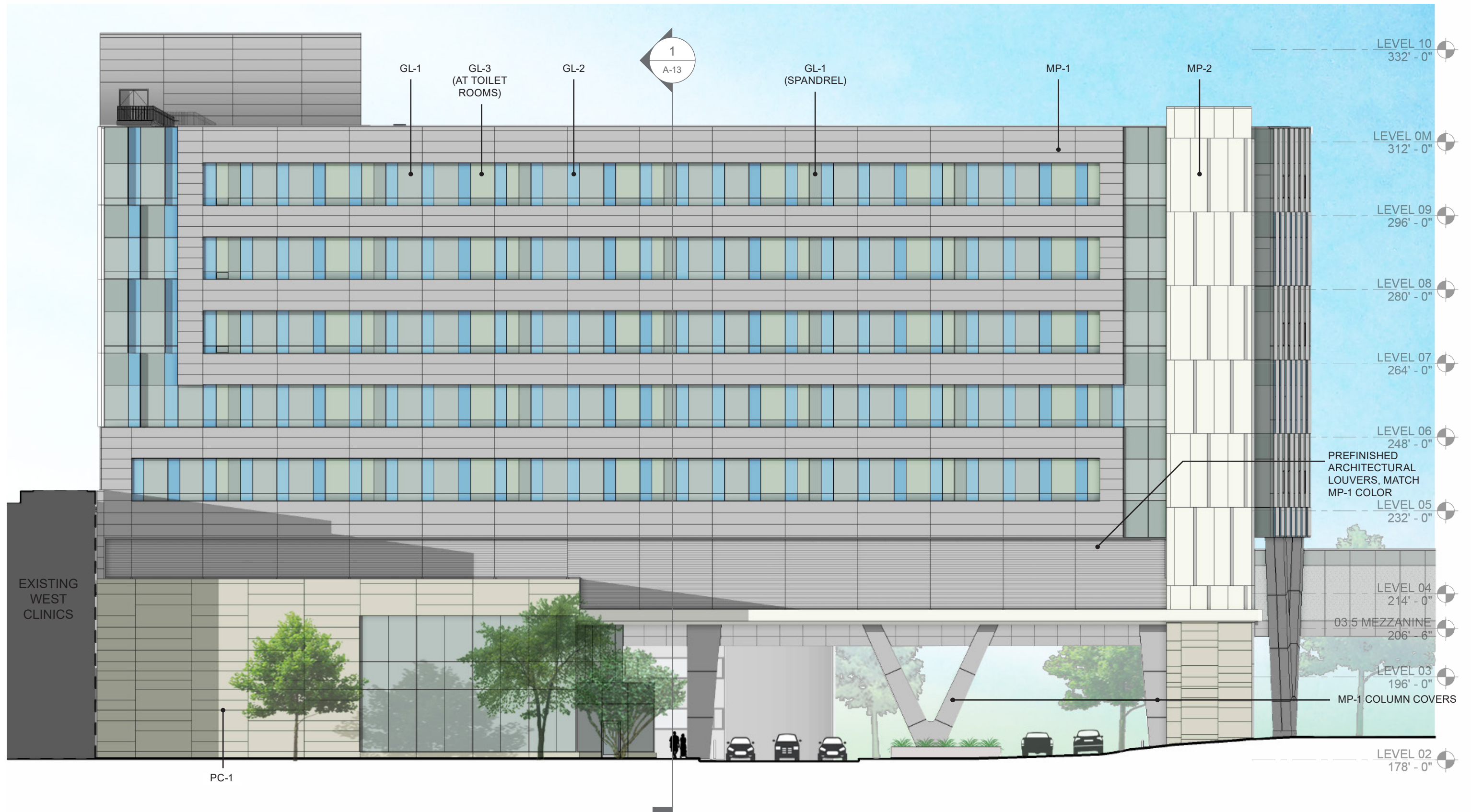
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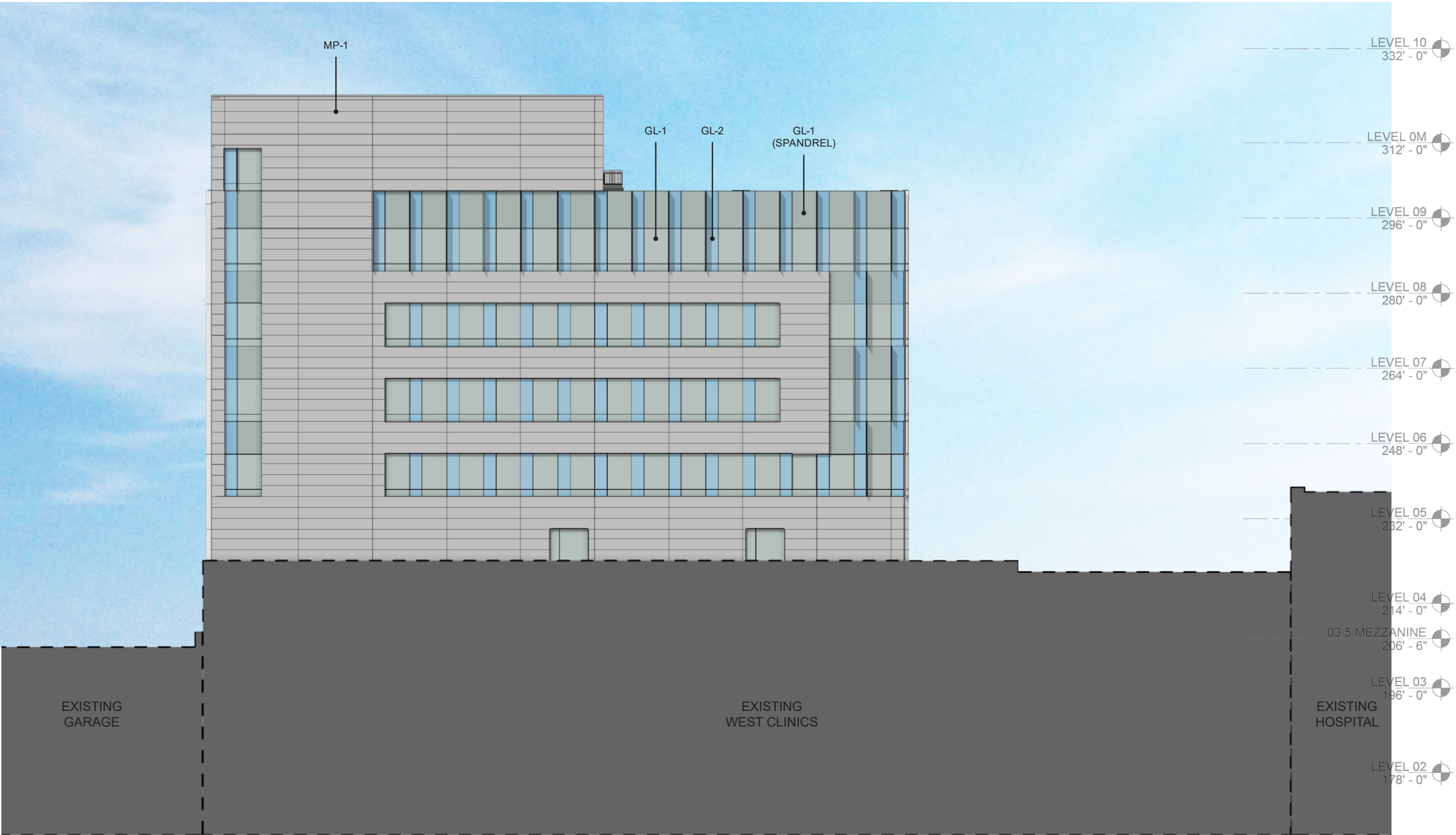
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0 40



SCALE 1" = 20'

0 40

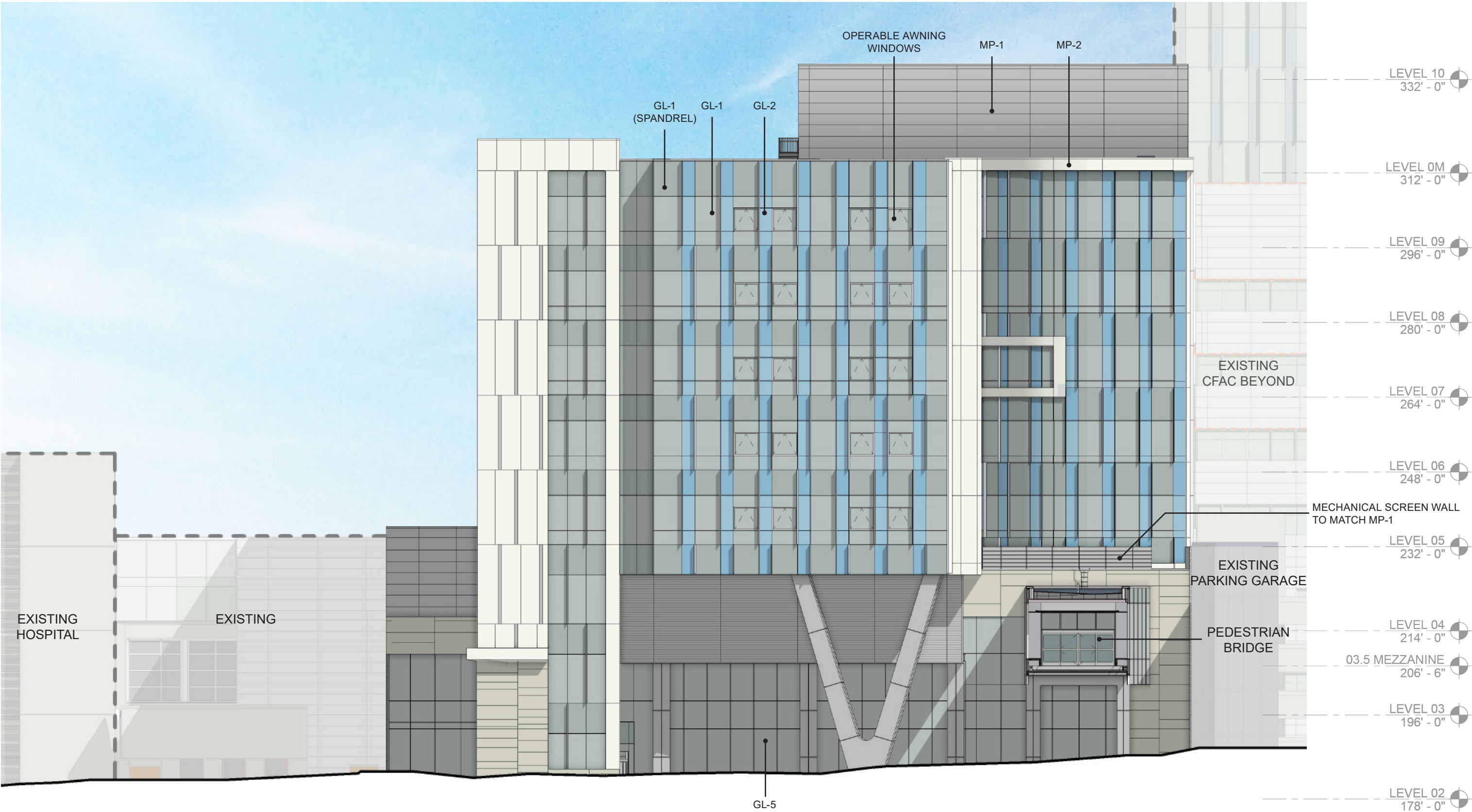


SCALE 1" = 20'



JANUARY 18, 2024

FROEDTERT HOSPITAL EXPANSION
EAST ELEVATION



SCALE 1" = 20'

FROEDTERT HOSPITAL EXPANSION
WEST ELEVATION

