



# Wauwatosa, WI

## Design Review Board

### Meeting Agenda - Final

7725 W. North Avenue  
Wauwatosa, WI 53213

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Thursday, February 20, 2025

6:00 PM

Common Council Chambers

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#### CALL TO ORDER

#### NEW BUSINESS

1. 8220 Harwood - Harwood Place - Exterior Amenity Space - Return to Board [25-0048](#)
2. Foundry Way, Mayfair 2 - New Multi-Family - Return to Board [25-0171](#)

#### 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](mailto:tclerk@wauwatosa.net), with as much advance notice as possible.



# Wauwatosa, WI

7725 W. North Avenue  
Wauwatosa, WI 53213

## Staff Report

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**File #:** 25-0048

**Agenda Date:** 2/20/2025

**Agenda #:** 1.

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8220 Harwood - Harwood Place - Exterior Amenity Space - Return to Board

- GENERAL NOTES:**
- THE INTENTION OF THE PLANS AND SPECIFICATIONS IS TO SET FORTH PERFORMANCE AND CONSTRUCTION MATERIAL STANDARDS FOR THE PROPER EXECUTION OF WORK. ALL WORKS CONTAINED WITHIN THE PLANS AND SPECIFICATIONS SHALL BE COMPLETED IN ACCORDANCE WITH ALL REQUIREMENTS FROM LOCAL, STATE, FEDERAL OR OTHER GOVERNING AGENCY'S LAWS, REGULATIONS, JURISDICTIONAL ORDINANCES/CODES/RULES/ETC., AND THE OWNER'S DIRECTION.
  - A GEOTECHNICAL REPORT HAS BEEN PREPARED BY **ON 20** FOR THE PROJECT SITE. THE DATA ON SUB-SURFACE SOIL CONDITIONS IS NOT INTENDED AS A REPRESENTATION OR WARRANTY OF THE CONTINUITY OF SUCH CONDITIONS BETWEEN BORINGS OR INDICATED SAMPLING LOCATIONS. IT SHALL BE EXPRESSLY UNDERSTOOD THAT OWNER WILL NOT BE RESPONSIBLE FOR ANY INTERPRETATIONS OR CONCLUSIONS DRAWN THERE FROM BY THE CONTRACTOR. DATA IS MADE AVAILABLE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ANY ADDITIONAL SOILS INVESTIGATIONS THEY FEEL IS NECESSARY FOR THE PROPER EVALUATION OF THE SITE FOR PURPOSES OF PLANNING, BIDDING, OR CONSTRUCTING THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
  - THE CONTRACTOR IS RESPONSIBLE TO REVIEW AND UNDERSTAND ALL COMPONENTS OF THE PLANS AND SPECIFICATIONS, INCLUDING FIELD VERIFYING SOIL CONDITIONS, PRIOR TO SUBMISSION OF A BID PROPOSAL.
  - THE CONTRACTOR SHALL PROMPTLY REPORT ANY ERRORS OR AMBIGUITIES LEARNED AS PART OF THEIR REVIEW OF PLANS, SPECIFICATIONS, REPORTS AND FIELD INVESTIGATIONS.
  - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE COMPUTATION OF QUANTITIES AND WORK REQUIRED TO COMPLETE THIS PROJECT. THE CONTRACTOR'S BID SHALL BE BASED ON ITS OWN COMPUTATIONS AND IN NO SUCH INSTANCE RELY ON THE ENGINEER'S ESTIMATE.
  - QUESTIONS/CLARIFICATIONS WILL BE INTERPRETED BY ENGINEER/OWNER PRIOR TO THE AWARD OF CONTRACT. ENGINEER/OWNER WILL SUBMIT OFFICIAL RESPONSES IN WRITING. INTERPRETATIONS PRESENTED IN OFFICIAL RESPONSES SHALL BE BINDING ON ALL PARTIES ASSOCIATED WITH THE CONTRACT. IN NO WAY SHALL WORD-OF-MOUTH DIALOG CONSTITUTE AN OFFICIAL RESPONSE.
  - PRIOR TO START OF WORK, CONTRACTOR SHALL BE COMPLETELY FAMILIAR WITH ALL CONDITIONS OF THE SITE, AND SHALL ACCOUNT FOR CONDITIONS THAT AFFECT, OR MAY AFFECT CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, LIMITATIONS OF WORK ACCESS, SPACE LIMITATIONS, OVERHEAD OBSTRUCTIONS, TRAFFIC PATTERNS, LOCAL REQUIREMENTS, ADJACENT ACTIVITIES, ETC. FAILURE TO CONSIDER SITE CONDITIONS SHALL NOT BE CAUSE FOR CLAIM OF JOB EXTRA.
  - COMMENCEMENT OF CONSTRUCTION SHALL EXPLICITLY CONFIRM THAT THE CONTRACTOR HAS REVIEWED THE PLANS AND SPECIFICATIONS IN ENTIRETY AND THAT THEIR SUBMITTED BID PROPOSAL CONTAINS PROVISIONS TO COMPLETE THE PROJECT WITH THE EXCEPTION OF UNFORESEEN FIELD CONDITIONS; ALL APPLICABLE PERMITS HAVE BEEN OBTAINED, AND CONTRACTOR UNDERSTANDS ALL OF THE REQUIREMENTS OF THE PROJECT.
  - SHOULD ANY DISCREPANCIES OR CONFLICTS IN THE PLANS OR SPECIFICATIONS BE DISCOVERED AFTER THE AWARD OF CONTRACT, ENGINEER SHALL BE NOTIFIED IN WRITING IMMEDIATELY AND CONSTRUCTION OF ITEMS AFFECTED BY THE DISCREPANCIES/CONFLICTS SHALL NOT COMMENCE, OR CONTINUE, UNTIL A WRITTEN RESPONSE FROM ENGINEER/OWNER IS DISTRIBUTED. IN THE EVENT OF A CONFLICT BETWEEN REFERENCED CODES, STANDARDS, SPECIFICATIONS AND PLANS, THE ONE ESTABLISHING THE MOST STRINGENT REQUIREMENTS SHALL BE FOLLOWED.
  - THE CONTRACTOR SHALL, AT ITS OWN EXPENSE, OBTAIN ALL NECESSARY PERMITS AND LICENSES TO COMPLETE THE PROJECT OBTAINING PERMITS, OR DELAYS, IS NOT CAUSE FOR DELAY OF THE CONTRACT OR SCHEDULE. CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS.
  - THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL UTILITY INFORMATION SHOWN ON THE PLANS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL DIGGERS' HOTLINE AT 1-800-242-8511 TO NOTIFY THE UTILITIES OF HIS INTENTIONS, AND TO REQUEST FIELD STAKING OF EXISTING UTILITIES.
  - THE CONTRACTOR SHALL NOTIFY ALL INTERESTED GOVERNING AGENCIES, UTILITY COMPANIES AFFECTED BY THIS CONSTRUCTION PROJECT, AND DIGGERS' HOTLINE IN ADVANCE OF CONSTRUCTION TO COMPLY WITH ALL JURISDICTIONAL ORDINANCES/CODES/RULES/ETC., PERMIT STIPULATIONS, AND OTHER APPLICABLE STANDARDS. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY REQUIRES A STREET OCCUPANCY PERMIT FROM THE CITY.
  - SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE TO INITIATE, INSTITUTE, ENFORCE, MAINTAIN, AND SUPERVISE ALL SAFETY PRECAUTIONS AND JOB SITE SAFETY PROGRAMS IN CONNECTION WITH THE WORK.
  - THE CONTRACTOR SHALL KEEP THE JOBSITE CLEAN AND ORDERLY AT ALL TIMES. ALL LOCATIONS OF THE SITE SHALL BE KEPT IN A WORKING MANNER SUCH THAT DEBRIS IS REMOVED CONTINUOUSLY AND ALL RESPECTIVE CONTRACTORS OPERATE UNDER GENERAL "GOOD HOUSEKEEPING".
  - THE CONTRACTOR SHALL INDEMNIFY THE OWNER, THE ENGINEER, AND THE MUNICIPALITY, THEIR AGENTS, ETC. FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE WORK ON THIS PROJECT.
  - THE PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO THE WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE, LATEST EDITION, THE STANDARD SPECIFICATIONS FOR SEWER & WATER IN WISCONSIN, AND WISCONSIN ADMINISTRATIVE CODE, SPS 360, 382-383, AND THE LOCAL ORDINANCES AND SPECIFICATIONS.
  - THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE MUNICIPALITY FORTY- EIGHT (48) HOURS PRIOR TO THE START OF CONSTRUCTION.
  - THE MUNICIPALITY SHALL HAVE THE RIGHT TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION OF THE PUBLIC PORTIONS OF THE WORK. THE OWNER SHALL HAVE THE RIGHT TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION OF ALL PRIVATE PORTIONS OF THE WORK.
  - ALL SPECIFIC EROSION AND SEDIMENT CONTROL FACILITIES MUST BE INSTALLED PRIOR TO DEMOLITION, CONSTRUCTION OR ANY OTHER LAND DISTURBING ACTIVITY. FOLLOW THE SEQUENCE OF CONSTRUCTION ON THE EROSION CONTROL PLAN FOR MORE DETAILS. INSPECTIONS SHALL BE MADE WEEKLY OR AFTER EVERY RAINFALL OF 0.5" OR MORE. REPAIRS SHALL BE MADE IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EROSION CONTROL FACILITIES ONCE THE THREAT OF EROSION HAS PASSED WITH THE APPROVAL OF THE GOVERNING AGENCY.
  - ANY ADJACENT PROPERTIES OR ROAD RIGHT-OF-WAYS WHICH ARE DAMAGED DURING CONSTRUCTION MUST BE RESTORED BY THE CONTRACTOR.
  - THE OWNER SHALL HAVE THE RIGHT TO HAVE ALL MATERIALS USED IN CONSTRUCTION TESTED FOR COMPLIANCE WITH THESE SPECIFICATIONS.

**DEMOLITION AND CLEARING NOTES:**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE APPROPRIATE GOVERNMENTAL ENTITIES ARE NOTIFIED OF THE WORK AND NECESSARY PERMITS ARE OBTAINED.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ITEMS/DEBRIS, CLASSIFICATION, AND PROPER DISPOSAL.(E.G. - ARRANGE FOR ADEQUATE COLLECTION, AND TRANSPORTATION TO DELIVER THE RECOVERED MATERIALS TO THE APPROVED RECYCLING CENTER OR PROCESSING FACILITY). CONTRACTOR SHALL MAINTAIN RECORDS ACCESSIBLE TO THE OWNER AND GOVERNMENT ENTITIES.
- THE CONTRACTOR SHALL CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS IN MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES.
- THE CONTRACTOR SHALL CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES DESIGNATED TO REMAIN.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION AS REQUIRED FOR SAFETY AND SECURITY.
- THE CONTRACTOR SHALL PROVIDE BARRIERS AND APPROPRIATE SIGNS WHERE NECESSARY TO RESTRICT PEDESTRIANS FROM WANDERING INTO CONSTRUCTION AREAS. PROVIDE ACCEPTABLE TEMPORARY SECURITY BARRIERS WHERE PHYSICAL SECURITY OF BUILDINGS OR FENCES IS COMPROMISED DUE TO DEMOLITION WORK.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY WEATHER PROTECTION DURING INTERVAL BETWEEN DEMOLITION AND REMOVAL OF EXISTING CONSTRUCTION ON EXTERIOR SURFACES AND INSTALLATION OF NEW CONSTRUCTION TO ENSURE NO WATER LEAKAGE OR DAMAGE OCCURS TO STRUCTURE OR INTERIOR AREAS OF EXISTING BUILDING.
- THE CONTRACTOR SHALL ERECT TEMPORARY ENCLOSURES AS NECESSARY TO LIMIT DUST. USE WATER AS NECESSARY TO LAY DUST WHEN CHIPPING, CORING, OR SAWING CONCRETE, MASONRY OR SIMILAR MATERIALS. WATER MUST BE CONTROLLED INSIDE BUILDINGS BY DAMMING, OR OTHER CONTAINMENT METHOD.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN INTERIOR AND EXTERIOR SHORING, BRACING OR STRUCTURAL SUPPORT TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF STRUCTURES AND ADJACENT FACILITIES THAT ARE NOT PART OF DEMOLITION.
- THE CONTRACTOR SHALL COMPLETELY BACKFILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM UTILITY REMOVAL AND OTHER DEMOLITION WORK WITH CLOSE GRADED AGGREGATE OR COHESIVE STRUCTURAL FLL.
- THE CONTRACTOR SHALL RESTORE ANY DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED.

**SITE PLAN NOTES:**

- ALL PAVING DIMENSIONS INCLUDING RADII ARE TO EDGE OF PAVEMENT UNLESS NOTED.
- ALL PROPOSED CURB AND GUTTER SHALL BE 18" STANDARD CURB AND GUTTER (SEE DETAIL) UNLESS OTHERWISE NOTED. CURB AND GUTTER DRAINING AWAY FROM THE FACE OF CURB IS NOTED AS REVERSE CURB AND GUTTER.
- THE CONTRACTOR SHALL CONTACT DIGGERS HOTLINE (1-800-242-8511) PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS.
- REFER TO ELECTRICAL & PHOTOMETRIC SHEETS FOR LIGHTING LOCATIONS, SPECIFICATIONS, AND DETAILS.
- SEE ADDITIONAL NOTES AND DETAILS ON SITE DIMENSIONAL PLANS AND CONSTRUCTION DETAILS.
- ALL PAVING SHALL CONFORM TO STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION CURRENT EDITION, HEREAFTER THIS PUBLICATION WILL BE REFERRED TO AS "STATE HIGHWAY SPECIFICATIONS," AND APPLICABLE CITY OF WAUWATOSA ORDINANCES, AND SPECIFICATIONS CONTAINED WITHIN THIS PLAN SET.
- PAVEMENT MARKING SPECIFICATIONS-  
CODE AND STANDARDS - ALL PAVEMENT MARKINGS SHALL INSTALLED IN ACCORDANCE WITH SECTION 646 OF THE STANDARD SPECIFICATIONS. MARKING DIMENSIONS, LOCATIONS, AND LAYOUT SHALL BE IN ACCORDANCE WITH STANDARD DETAIL DRAWINGS 15c7 AND THE PLAN DOCUMENTS.  
SURFACE PREPARATION AND INSTALLATION - THOROUGHLY CLEAN SURFACES FREE OF DIRT, SAND, GRAVEL, OIL AND OTHER FOREIGN MATTER. CONTRACTOR RESPONSIBLE TO INSPECT EXISTING PAVEMENT SURFACES FOR CONDITIONS AND DEFECTS THAT WILL ADVERSELY AFFECT QUALITY OF WORK, AND WHICH CANNOT BE PUT INTO AN ACCEPTABLE CONDITION THROUGH NORMAL PREPARATORY WORK AS SPECIFIED.  
DO NOT PLACE MARKING OVER UNSOUND PAVEMENTS. IF THESE CONDITIONS EXIST, NOTIFY OWNER. STARTING INSTALLATION CONSTITUTES CONTRACTOR'S ACCEPTANCE OF SURFACE AS SUITABLE FOR INSTALLATION.  
LAYOUT MARKINGS USING GUIDE LINES, TEMPLATES AND FORMS. STENCILS AND TEMPLATES SHALL BE PROFESSIONALLY MADE TO INDUSTRY STANDARDS. "FREE HAND" PAINTING OF ARROWS, SYMBOLS, OR WORDING SHALL NOT BE ALLOWED. APPLY STRIPES STRAIGHT AND EVEN.  
PROTECT ADJACENT CURBS, WALKS, FENCES, AND OTHER ITEMS FROM RECEIVING PAINT.  
BARRICADE MARKED AREAS DURING INSTALLATION AND UNTIL THE MARKING PAINT IS DRIED AND READY FOR TRAFFIC.
- ASPHALT PAVING SPECIFICATIONS-  
CODES AND STANDARDS - THE PLACING, CONSTRUCTION AND COMPOSITION OF THE ASPHALTIC BASE COURSE AND ASPHALTIC CONCRETE SURFACING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 450, 455, 460 AND 465 OF THE STATE HIGHWAY SPECIFICATIONS.

- WEATHER LIMITATIONS - APPLY TACK COATS WHEN AMBIENT TEMPERATURE IS ABOVE 45° F (10° C) AND WHEN TEMPERATURE HAS NOT BEEN WET OR CONTAINS MATERIALS TO BE APPLIED. DO NOT APPLY WHEN BASE IS WET OR CONTAINS EXCESS OF MOISTURE. CONSTRUCT ASPHALTIC CONCRETE SURFACE COURSE WHEN ATMOSPHERIC TEMPERATURE IS ABOVE 40° (4° C) AND WHEN BASE IS DRY AND WHEN WEATHER IS NOT RAINY. BASE COURSE MAY BE PLACED WHEN AIR TEMPERATURE IS ABOVE 30° F (-1° C). FOR CONCRETE PAVEMENTS' PLACEMENT IS NOT TO BE PERFORMED IF THE AMBIENT TEMPERATURE IN THE SHADE FALLS BELOW 35° F UNLESS WRITTEN PERMISSION IS OBTAINED FROM THE ENGINEER. IF FREEZING TEMPERATURES ARE FORECASTED WITHIN 24 HOURS OF A FOUR PROTECTIVE COATING WILL NEED TO BE APPLIED IN ACCORDANCE WITH 415.3.1.2 OF THE STANDARD SPECIFICATIONS.
- GRADE CONTROL - ESTABLISH AND MAINTAIN REQUIRED LINES AND ELEVATIONS FOR EACH COURSE DURING CONSTRUCTION.
- CRUSHED AGGREGATE BASE COURSE - THE BASE COURSE SHALL CONFORM TO SECTIONS 301 AND 305, STATE HIGHWAY SPECIFICATIONS.
- BINDER COURSE AGGREGATE - THE AGGREGATE FOR THE BINDER COURSE SHALL CONFORM TO SECTIONS 460.2.7 AND 315, STATE HIGHWAY SPECIFICATIONS.
- SURFACE COURSE AGGREGATE - THE AGGREGATE FOR THE SURFACE COURSE SHALL CONFORM TO SECTIONS 460.2.7 AND 465, STATE HIGHWAY SPECIFICATIONS.
- ASPHALTIC MATERIALS - THE ASPHALTIC MATERIALS SHALL CONFORM TO SECTIONS 455 AND 460, STATE HIGHWAY SPECIFICATIONS.
- SURFACE PREPARATION - NOTIFY CONTRACTOR OF UNSATISFACTORY CONDITIONS. DO NOT BEGIN PAVING WORK UNTIL DEFICIENT SUBBASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING.
- THE CONTRACTOR IS RESPONSIBLE TO PERFORM A QUALITY MANAGEMENT PROGRAM (QMP) FOR PLACEMENT OF ALL PAVEMENTS IN ACCORDANCE WITH SECTIONS 460.2.8 FOR HMA AND 715 FOR PCC.
- CONCRETE PAVING SPECIFICATIONS - CODES AND STANDARDS - THE PLACING, CONSTRUCTIONS AND COMPOSITION OF THE CONCRETE PAVEMENT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 415 AND 416 OF THE STATE HIGHWAY SPECIFICATIONS.  
CRUSHED AGGREGATE BASE COURSE - THE BASE COURSE SHALL CONFORM TO SECTIONS 301 AND 305, STATE HIGHWAY SPECIFICATIONS. CLEAN RECYCLED CRUSHED CONCRETE MAY BE USED IF APPROVED BY GOTECH ENGINEERING OF RECORD.  
SURFACE PREPARATION - NOTIFY CONTRACTOR OF UNSATISFACTORY CONDITIONS DO NOT BEGIN PAVING WORK UNTIL DEFICIENT SUBBASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING.

**GRADING NOTES:**

- THE CONTRACTOR SHALL VERIFY ALL GRADES, ENSURE ALL AREAS DRAIN PROPERLY AND REPORT ANY DISCREPANCIES TO PINNACLE ENGINEERING GROUP PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.
- ALL EXISTING CONTOURS REPRESENT EXISTING SURFACE GRADES UNLESS OTHERWISE NOTED. ALL PROPOSED GRADES SHOWN ARE FINISH SURFACE GRADES UNLESS OTHERWISE NOTED.
- SPOT ELEVATIONS REPRESENT THE GRADE ALONG THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- ALL EXCAVATIONS AND MATERIAL PLACEMENT SHALL BE COMPLETED TO DESIGN ELEVATIONS AS DEPICTED IN THE PLANS.
- THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE COMPUTATION(S) OF ALL GRADING QUANTITIES. WHILE PEG ATTEMPTS TO PROVIDE A COST-EFFECTIVE APPROACH TO BALANCE EARTHWORK, GRADING DESIGN IS BASED ON MANY FACTORS, INCLUDING SAFETY, AESTHETICS, AND COMMON ENGINEERING STANDARD OF CARE, THEREFORE NO GUARANTEE CAN BE MADE FOR A BALANCED SITE.
- THE CONTRACTOR MAY SOLICIT APPROVAL FROM ENGINEER/OWNER TO ADJUST FINAL GRADES FROM DESIGN GRADES TO PROVIDE AN OVERALL SITE BALANCE AS A RESULT OF FIELD CONDITIONS.
- GRADING ACTIVITIES SHALL BE IN A MANNER TO ALLOW POSITIVE DRAINAGE ACROSS DISTURBED SOILS, WHICH MAY INCLUDE EXCAVATION OF TEMPORARY DITCHES TO PREVENT PONDING, AND IF NECESSARY PUMPING TO ALLEVIATE PONDING. CONTRACTOR SHALL PREVENT SURFACE WATER FROM ENTERING INTO EXCAVATIONS. IN NO WAY SHALL OWNER BE RESPONSIBLE FOR REMEDIATION OF UNSUITABLE SOILS CREATING/OBTAINED AS A RESULT OF IMPROPER SITE GRADING OR RESULTING FROM CONTRACTOR SHALL SEQUENCE GRADING ACTIVITIES TO LIMIT EXPOSURE OF DISTURBED SOILS IN ACCORDANCE WITH THE APPROVED STORMWATER POLLUTION PREVENTION PLAN.
- THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF ALL PAVEMENT BEARING SURFACES IN ACCORDANCE WITH PART 2 OF THE STATE STANDARDS. THE CONTRACTOR SHALL NOTIFY ENGINEER/OWNER IF PROPER COMPACTION CANNOT BE OBTAINED. THE PROJECTS GEOTECHNICAL CONSULTANT SHALL DETERMINE WHICH IN-SITU SOILS ARE TO BE CONSIDERED UNSUITABLE SOILS. THE ENGINEER/OWNER AND GEOTECHNICAL TESTING CONSULTANT WILL DETERMINE IF REMEDIAL MEASURES WILL BE NECESSARY.
- IN THE EVENT THAT ANY MOISTURE-DENSITY TEST(S) FAIL TO MEET SPECIFICATION REQUIREMENTS, THE CONTRACTOR SHALL PERFORM CORRECTIVE WORK AS NECESSARY TO BRING THE MATERIAL INTO COMPLIANCE AND RETEST THE FAILED AREA AT NO COST TO THE OWNER.
- WITH THE AUTHORIZATION OF THE ENGINEER/OWNER, MATERIAL THAT IS TOO WET TO PERMIT PROPER COMPACTION MAY BE SPREAD ON FILL AREAS IN AN EFFORT TO DRY. CONTRACTOR SHALL EARLY FIELD MARK THE EXTERIOR LIMITS OF SPREAD MATERIAL WITH PAINTED LATH AND SUBMIT A PLAN TO THE ENGINEER/OWNER THAT IDENTIFIES THE LIMITS. UNDER NO CONDITION SHALL THE SPREAD MATERIAL DEPTH EXCEED THE MOST RESTRICTIVE OF: THE EFFECTIVE TREATMENT DEPTH OF MACHINERY THAT WILL BE USED TO TURN OVER THE SPREAD MATERIAL; OR THE MAXIMUM COMPACTION LIFT DEPTH.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER/OWNER IF GROUNDWATER IS ENCOUNTERED DURING EXCAVATION.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ADEQUATE AND SAFE TEMPORARY SHORING, BRACING, RETENTION STRUCTURES, AND EXCAVATIONS.
- THE SITE SHALL BE COMPLETED TO WITHIN 0.10-FT (+/-) OF THE PROPOSED GRADES AS INDICATED WITHIN THE PLANS PRIOR TO PLACEMENT OF TOPSOIL OR AGGREGATE BASE. CONTRACTOR IS ENCOURAGED TO SEQUENCE CONSTRUCTION SUCH THAT THE SITE IS DIVIDED INTO SMALLER AREAS TO ALLOW STABILIZATION OF DISTURBED SOILS IMMEDIATELY UPON COMPLETION OF INDIVIDUAL SMALLER AREAS.
- THE CONTRACTOR SHALL CONTACT "DIGGER'S HOTLINE" FOR LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES AND SHALL BE RESPONSIBLE FOR PROTECTING SAID UTILITIES FROM ANY DAMAGE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PROTECT INLETS AND ADJACENT PROPERTIES WITH SILT FENCING OR APPROVED EROSION CONTROL METHODS UNTIL CONSTRUCTION IS COMPLETED. CONTRACTOR SHALL PLACE SILT FENCING AT DOWN SLOPE SIDE OF GRADING LIMITS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING FACILITIES OR UTILITIES. ANY DAMAGE SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE EXPENSE OF THE CONTRACTOR.
- WORK WITHIN ANY ROADWAY RIGHT-OF-WAY SHALL BE COORDINATED WITH THE APPROPRIATE MUNICIPAL OFFICIAL PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FEES. GRADING WITHIN RIGHT-OF-WAY IS SUBJECT TO APPROVAL BY SAID OFFICIALS. RESTORATION OF RIGHT-OF-WAY IS CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE COST OF GRADING. RESTORATION SHALL INCLUDE ALL ITEMS NECESSARY TO RESTORE RIGHT-OF-WAY IN-KIND INCLUDING LANDSCAPING.
- THE CONTRACTOR SHALL COMPLY WITH ALL CITY OF WAUWATOSA CONSTRUCTION STANDARDS/ORDINANCES FOR WORK WITHIN THE RIGHT-OF-WAY.
- LANDSCAPE AND TURF AREAS SHALL HAVE A MINIMUM OF 6-INCH TOPSOIL REPLACEMENT.
- SURVEY BENCHMARKS AND MAPPING HAVE BEEN PROVIDED BY PINNACLE ENGINEERING GROUP. IN NO WAY DOES PEG WARRANT THE BASEMAP IS ALL-INCLUSIVE OR REPRESENTATIVE OF ACTUAL CONDITIONS. CONTRACTOR SHALL PROVIDE CHECKS AS NECESSARY TO VERIFY THE BASEMAP CONTENT AND ACCURACY.

**CITY OF WAUWATOSA EROSION CONTROL NOTES:**

- SITE DEWATERING. WATER PUMPED FROM THE SITE SHALL BE TREATED BY SEDIMENT BASINS OR OTHER APPROPRIATE BEST MANAGEMENT PRACTICES SPECIFIED IN THE WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP) HANDBOOK. WATER MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE, ADJACENT SITE, OR RECEIVING CHANNELS.
- 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.
- 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 CITY, BEFORE THE END OF EACH WORKDAY, FLUSHING MAY NOT BE USED UNLESS SEDIMENT WILL BE CONTROLLED BY A SEDIMENT BASIN OR OTHER APPROPRIATE BEST MANAGEMENT PRACTICE SPECIFIED IN THE BMP HANDBOOK.
- 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 WORK DAY. ALL OTHER OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE CLEANED UP BY THE END OF THE WORK DAY.
- ALL ACTIVITIES ON THE SITE SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE AREA OF BARE SOIL EXPOSED AT ANY ONE TIME.
- ALL DISTURBED GROUND LEFT INACTIVE FOR SEVEN OR MORE DAYS SHALL BE STABILIZED BY TEMPORARY OR PERMANENT SEEDING, TEMPORARY OR PERMANENT SEEDING AND MULCHING, SODDING, COVERING WITH TARPS, OR EQUIVALENT BEST MANAGEMENT PRACTICES. IF TEMPORARY SEEDING IS USED, A PERMANENT COVER SHALL ALSO BE REQUIRED AS A PART OF THE FINAL SITE STABILIZATION. SEEDING OR SODDING SHALL BE REQUIRED AS PART OF THE FINAL SITE STABILIZATION.
- SOIL OR DIRT STORAGE PILES SHALL BE LOCATED A MINIMUM OF TWENTY-FIVE FEET FROM ANY DOWNSLOPE ROAD, LAKE, STREAM, WETLAND, OR DRAINAGE CHANNEL. STRAW BALE OR FILTER FABRIC FENCES SHALL BE PLACED ON THE DOWN SLOPE SIDE OF THE PILES. IF REMAINING FOR MORE THAN SEVEN DAYS, PILES SHALL BE STABILIZED BY MULCHING, VEGETATIVE COVER, TARPS OR OTHER MEANS.
- WHEN DISTURBED AREA HAS BEEN STABILIZED BY PERMANENT VEGETATION OR OTHER MEANS, TEMPORARY BEST MANAGEMENT PRACTICES SUCH AS FILTER FABRIC FENCES, STRAW BALES, SEDIMENT AND SEDIMENT TRAPS SHALL BE REMOVED.
- NOTIFY THE CITY ENGINEERING DEPARTMENT (479-8934) WITHIN TWO WORKING DAYS OF COMMENCING ANY LAND DEVELOPMENT OR LAND DISTURBING ACTIVITY.
- NOTIFY THE CITY OF COMPLETION OF ANY BEST MANAGEMENT PRACTICES WITHIN THE NEXT WORKING DAY AFTER THEIR INSTALLATION.
- OBTAIN PERMISSION IN WRITING FROM THE CITY OF WAUWATOSA ENGINEERING DEPARTMENT PRIOR TO MODIFYING THE EROSION CONTROL PLAN.
- REPAIR ANY SILTATION OR EROSION DAMAGE TO ADJOINING SURFACES AND DRAINAGE WAYS RESULTING FROM LAND DEVELOPMENT OR LAND DISTURBING ACTIVITIES.
- INSPECT THE BEST MANAGEMENT PRACTICES AFTER EACH RAIN OF .5 INCH OR MORE AND AT LEAST ONCE EACH WEEK AND MAKE NEEDED REPAIRS

**UTILITY NOTES:**

- EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE TYPE, LOCATION, SIZE, AND ELEVATION OF UNDERGROUND UTILITIES AS THEY DEEM NECESSARY FOR PROPOSED UTILITY CONNECTIONS AND/OR TO AVOID DAMAGE THERETO. CONTRACTOR SHALL CALL "DIGGER'S HOTLINE" PRIOR TO ANY CONSTRUCTION.

- ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN (LATEST EDITION AND ADDENDUM) AND ALL STATE AND LOCAL CODES AND SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHICH SPECIFICATIONS AND CODES APPLY, AND TO COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE LOCAL AND STATE AUTHORITIES.
- UTILITY CONSTRUCTION AND SPECIFICATIONS SHALL COMPLY WITH THE CITY OF WAUWATOSA SPECIAL PROVISIONS AND WISCONSIN DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES COMM 82.
- LENGTHS OF PROPOSED UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS ARE SHOWN FOR CONTRACTOR CONVENIENCE ONLY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPUTATIONS OF MATERIALS REQUIRED TO COMPLETE WORK. LENGTHS SHALL BE FIELD VERIFIED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL ADJUST AND/OR RECONSTRUCT EXISTING UTILITY COVERS (SUCH AS MANHOLE COVERS, VALVE BOX COVERS, ETC.) TO MATCH FINISHED GRADES OF THE AREAS DISTURBED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS, ELEVATIONS, AND SIZES OF PROPOSED UTILITIES AND CHECK ALL UTILITY CROSSINGS FOR CONFLICTS PRIOR TO ATTEMPTING CONNECTIONS AND BEGINNING UTILITY CONSTRUCTION AND NOTIFY THE OWNER OF ANY DISCREPANCIES OR CONFLICTS.
- ALL ON-SITE SANITARY, STORM AND WATER UTILITIES SHALL BE PRIVATELY OWNED AND MAINTAINED BY THE PROPERTY OWNER, EXCEPT FOR THOSE LOCATED WITHIN THE PUBLIC EASEMENT WILL BE OWNED AND MAINTAINED BY THE CITY OF WAUWATOSA.
- THE CONTRACTOR SHALL CONTACT THE CITY OF WAUWATOSA 48-HOURS IN ADVANCE OF STORM, WATER AND SANITARY CONNECTIONS TO THE CITY-OWNED SYSTEM TO SCHEDULE INSPECTIONS.
- ROUTING OF GAS, ELECTRIC AND TELEPHONE SERVICES ARE SHOWN ON THE ARCHITECTURAL PLANS AND SUBJECT TO CHANGE BASED UPON FINAL REVIEW AND APPROVAL. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPUTATIONS OF MATERIALS REQUIRED TO COMPLETE WORK AND COORDINATE FINAL LOCATIONS FOR ALL UTILITY SERVICES PRIOR TO START OF CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE PROPER AUTHORITIES FOR ANY REQUIRED PERMITS, AUTHORIZATIONS, TRAFFIC CONTROL AND ANY PERMIT FEES REQUIRED.
- FIELD TILE CONNECTION - ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION SHALL BE INCLUDED IN THE UNIT PRICE(S) FOR STORM SEWER. TILE LINES CROSSED BY THE TRENCH SHALL BE REPLACED WITH THE SAME MATERIAL AS THE STORM SEWER.
- THE CONTRACTOR IS RESPONSIBLE FOR THE SIZE, TYPE AND NUMBER OF WATER MAIN BENDS, HORIZONTAL AND VERTICAL, REQUIRED TO COMPLETE CONSTRUCTION. COST FOR BENDS, HORIZONTAL AND VERTICAL, SHALL BE INCIDENTAL AND INCLUDED IN THE OVERALL COST OF THE CONTRACT.
- PRIVATE CONSTRUCTION THAT DISTURBS UNDERGROUND UTILITIES IS REQUIRED TO INSTALL AND MAINTAIN ENCLOSED RATTRAP OR BAIT STATIONS.

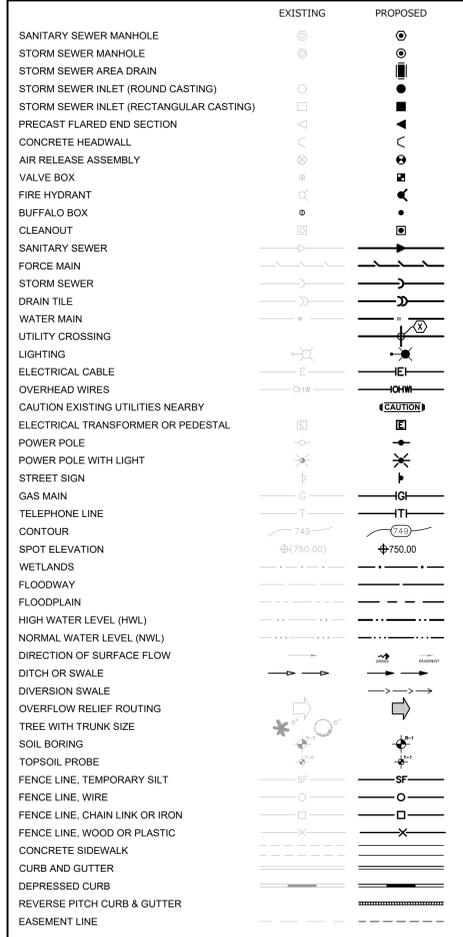
**PRIVATE STORM SEWER NOTES**

- PIPE - REINFORCED CONCRETE PIPE (RCP) SHALL MEET THE REQUIREMENTS OF ASTM CLASS IV (MINIMUM) C-76 WITH RUBBER GASKET JOINTS CONFORMING TO ASTM C-443; HIGH DENSITY DUAL-WALL POLYETHYLENE N-12 CORRUGATED PIPE (HDPE) SHALL BE AS MANUFACTURED BY ADS OR EQUAL WITH WATER TIGHT JOINTS, AND SHALL MEET THE REQUIREMENTS OF AASHTO DESIGNATION M-294 TYPE "S", OR POLYVINYL CHLORIDE (PVC) - CLASS 5946 MEETING AASHTO M278, AS NOTED.
- INLETS/CATCH BASINS - INLETS/CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FILE NO. 25 OF THE "STANDARD SPECIFICATIONS" WITH A 1'-8" X 2'-6" MAXIMUM OPENING. FRAME & GRATE SHALL BE NENEAH R-2502-D, OR EQUAL. FOR MANHOLES, FRAME AND GRATE SHALL BE NENEAH R-1580, TYPE B COVERS SELF SEALING AND NON-ROCKING. ADJUSTING RINGS SHALL BE HDPE MANUFACTURED BY LADTECH, INC OR EQUAL. CURB FRAME & GRATE SHALL BE NENEAH R-3067-L, OR EQUAL. FIELD INLET FRAME AND GRATE SHALL BE R-4349-D, OR EQUAL. AREA DRAIN GRATES SHALL BE R-4350-L OR EQUAL. THE SUMP DEPTH (VERTICAL DISTANCE FROM THE BASE OF THE STRUCTURE TO OUTFALL INVERT OF THE PIPE) SHALL BE 18" MIN. STRUCTURE SHOP DRAWINGS SHALL BE SUBMITTED TO PINNACLE ENGINEERING GROUP FOR REVIEW AND APPROVAL PRIOR TO MANUFACTURING AND INSTALLATION.
- BACKFILL AND BEDDING - STORM SEWER SHALL BE CONSTRUCTED WITH GRAVEL BACKFILL AND CLASS "B" BEDDING IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL. LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL. IN CONFORMANCE WITH SECTION 8.4.3.5 OF THE "STANDARD SPECIFICATIONS", GRANULAR BACKFILL SHALL CONFORM TO TABLE 37 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN THE STATE OF WISCONSIN, LATEST EDITION OR STATE SPECIFICATION SECTION 209 (GRADE 2). PEA GRAVEL IS EXPLICITLY NOT ALLOWED.
- MANHOLE FRAMES AND COVERS - MANHOLE FRAMES AND COVERS SHALL BE NENEAH R-1580 WITH TYPE "B" SELF SEALING LIDS, NON-ROCKING OR EQUAL. IF HOPE PIPE IS USED FOR POND OUTFALLS, A MINIMUM OF THREE (3) SECTIONS (2 STRAPS) SHALL BE STRAPPED TOGETHER.

**PRIVATE WATER MAIN NOTES:**

- PIPE - WATER MAIN SHALL BE POLYVINYL CHLORIDE (PVC) PIPE MEETING THE REQUIREMENTS OF AWWA STANDARD C-900, CLASS 150, DR-18, WITH CAST IRON O.D. AND INTEGRAL ELASTOMERIC BELL AND SPIGOT JOINTS. VALVES AND VALVE BOXES - GATE VALVES SHALL BE AWWA GATE VALVES MEETING THE REQUIREMENTS OF AWWA C-515 AND CHAPTER 8.2.7.0 OF THE "STANDARD SPECIFICATIONS". GATE VALVES AND VALVE BOXES SHALL CONFORM TO LOCAL PLUMBING ORDINANCES. WATER MAIN SIZE IS DETERMINED BY THE CITY OF WAUWATOSA WATER UTILITY. ALL INSTALLATION OF WATER MAIN MEETING THE CRITERIA TO OBTAIN A RIGHT-OF-RECOVERY SHALL COMPLY WITH THE REQUIREMENTS OF THE MUNICIPAL INTERGOVERNMENTAL AGREEMENT FOR WATER SERVICE AND THE RIGHT-OF-RECOVERY PROCEDURES REQUIRED BY THE CITY OF WAUWATOSA.
- HYDRANTS - HYDRANTS SHALL CONFORM TO THE SPECIFICATIONS OF CITY OF WAUWATOSA AND IN ACCORDANCE WITH FILE NO. 38 OF THE "STANDARD SPECIFICATIONS." THE DISTANCE FROM THE GROUND LINE TO THE CENTERLINE OF THE LOWEST NOZZLE AND THE LOWEST CONNECTION OF THE FIRE DEPARTMENT SHALL BE NO LESS THAN 18-INCHES AND NO GREATER THAN 23-INCHES. THE CITY OF WAUWATOSA FIRE DEPARTMENT APPROVAL MUST BE OBTAINED FOR ALL PROPOSED HYDRANT LOCATIONS PRIOR TO CONSTRUCTION.
- BEDDING AND COVER MATERIAL - PIPE BEDDING AND COVER MATERIAL SHALL BE SAND, CRUSHED STONE CHIPS OR CRUSHED STONE SCREENINGS CONFORMING TO THE CITY OF WAUWATOSA SPECIAL CONDITIONS FOR WATERMAIN CONSTRUCTION, LATEST EDITION.
- BACKFILL - BACKFILL MATERIAL AND INSTALLATION SHALL CONFORM TO THE CITY OF WAUWATOSA SPECIAL CONDITIONS FOR WATERMAIN CONSTRUCTION, LATEST EDITION. GRAVEL BACKFILL IS REQUIRED IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL. GRAVEL BACKFILL SHALL CONFORM TO TABLE 37 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION OR STATE SPECIFICATION SECTION 209 (GRADE 2). PEA GRAVEL IS EXPLICITLY NOT ALLOWED. LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.4.3.5 OF THE SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION.
- ALL PRIVATE WATERMAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF WAUWATOSA WATER MAIN SPECIAL PROVISIONS.

**LEGEND**



**ABBREVIATIONS**

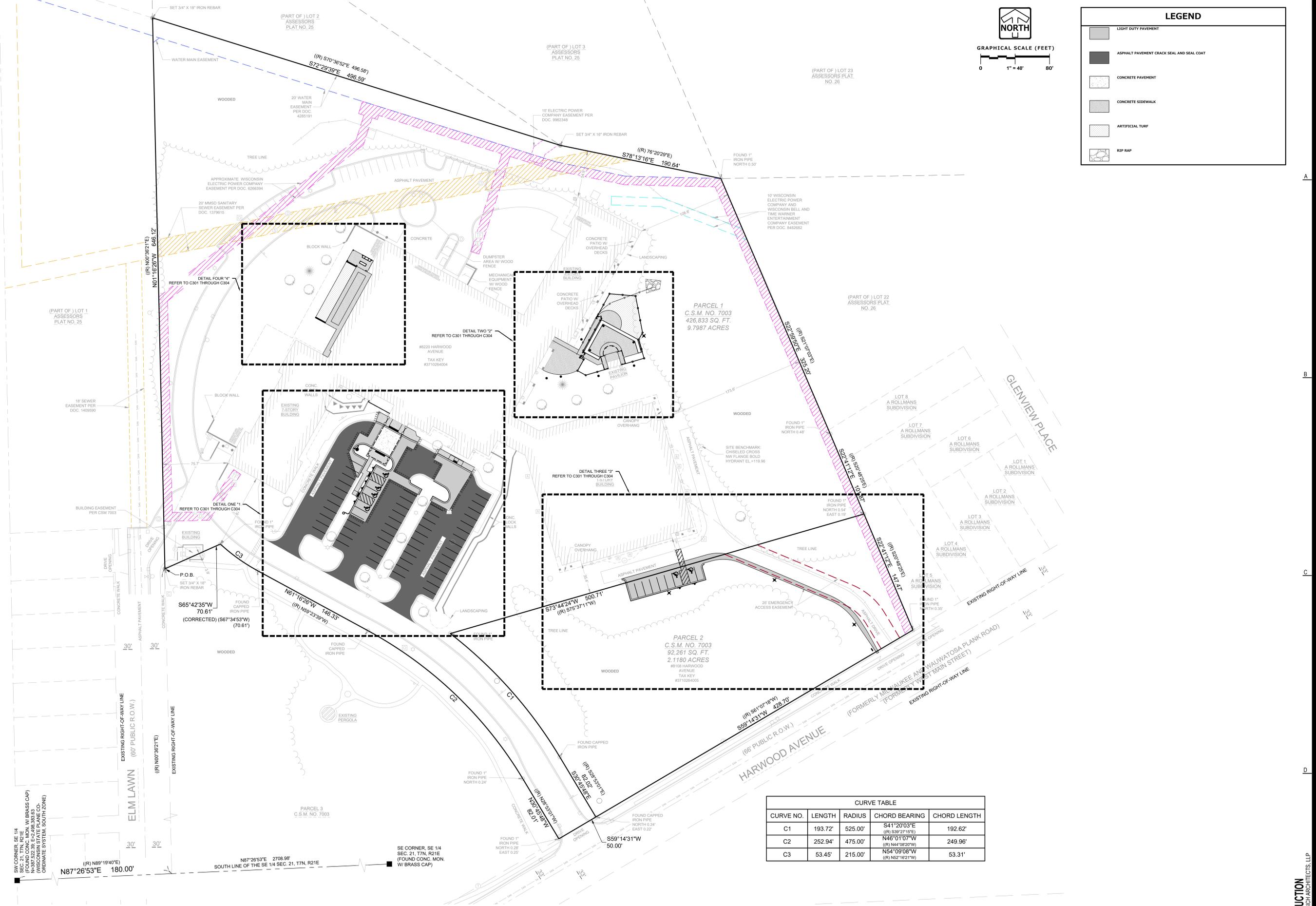
BL	BASE LINE	NWL	NORMAL WATER LEVEL
C	LONG CHORD OF CURVE	PC	POINT OF CURVATURE
C & G	CURB AND GUTTER	PT	POINT OF TANGENCY
CB	CATCH BASIN	PVI	POINT OF VERTICAL INTERSECTION
CL	CENTERLINE	R	RADIUS
D	DEGREE OF CURVE	ROW	RIGHT-OF-WAY
EP	EDGE OF PAVEMENT	SAN	SANITARY SEWER
FF	FINISHED FLOOR	ST	STORM SEWER
FG	FINISHED GRADE	T	TANGENCY OF CURVE
FL			





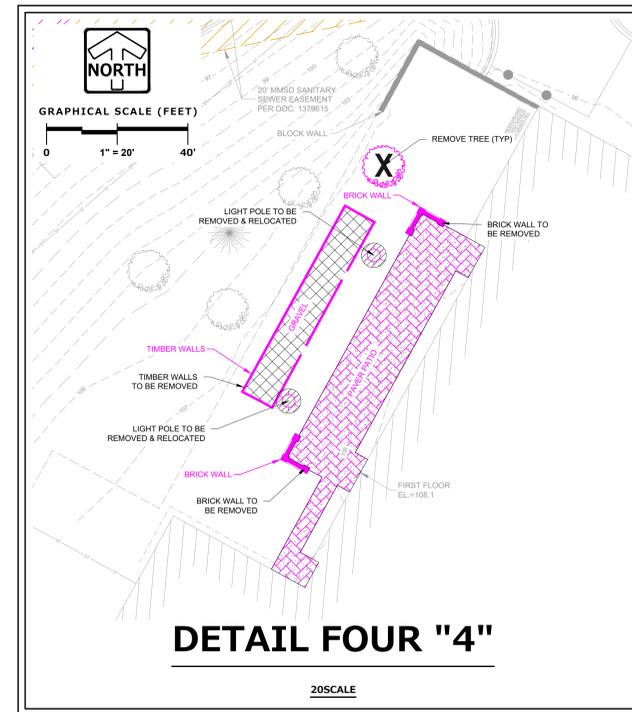
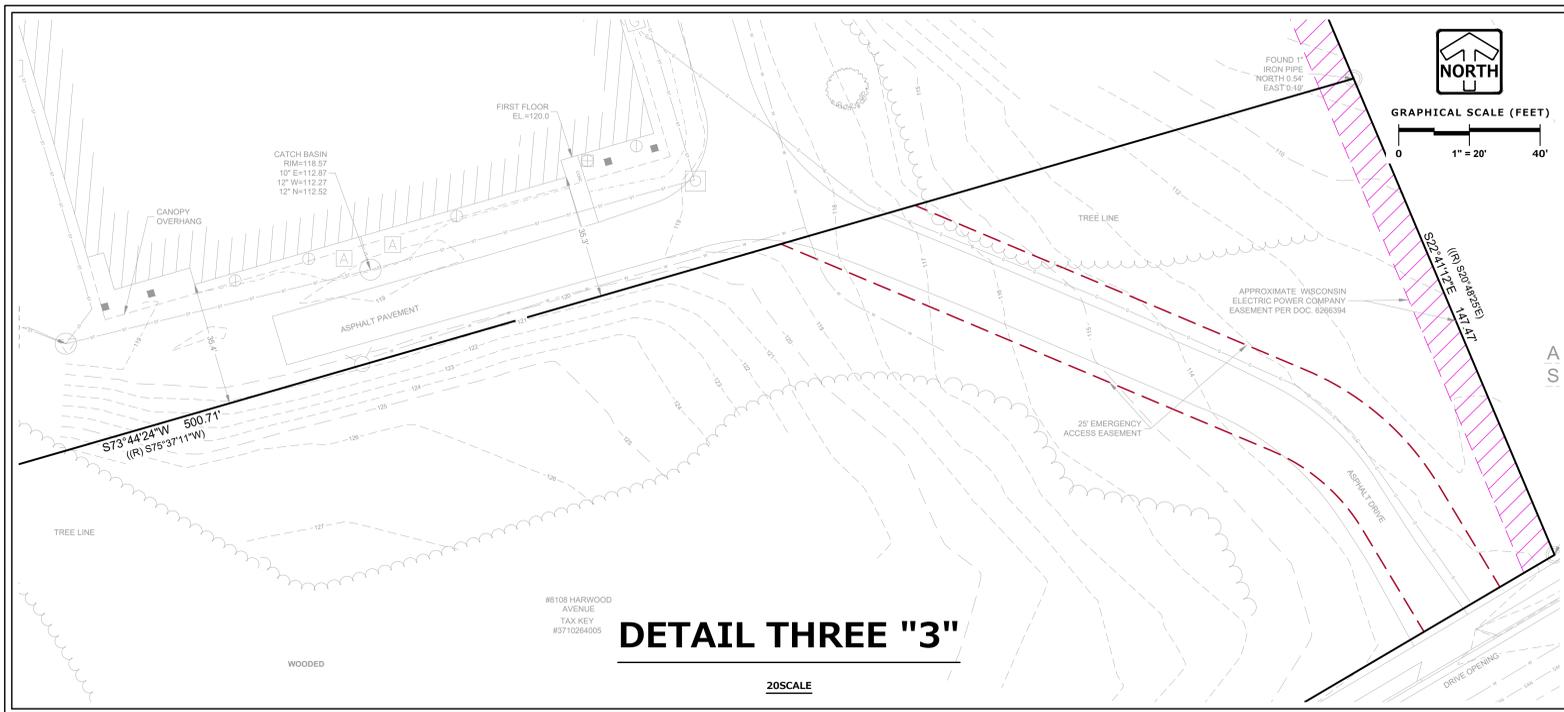
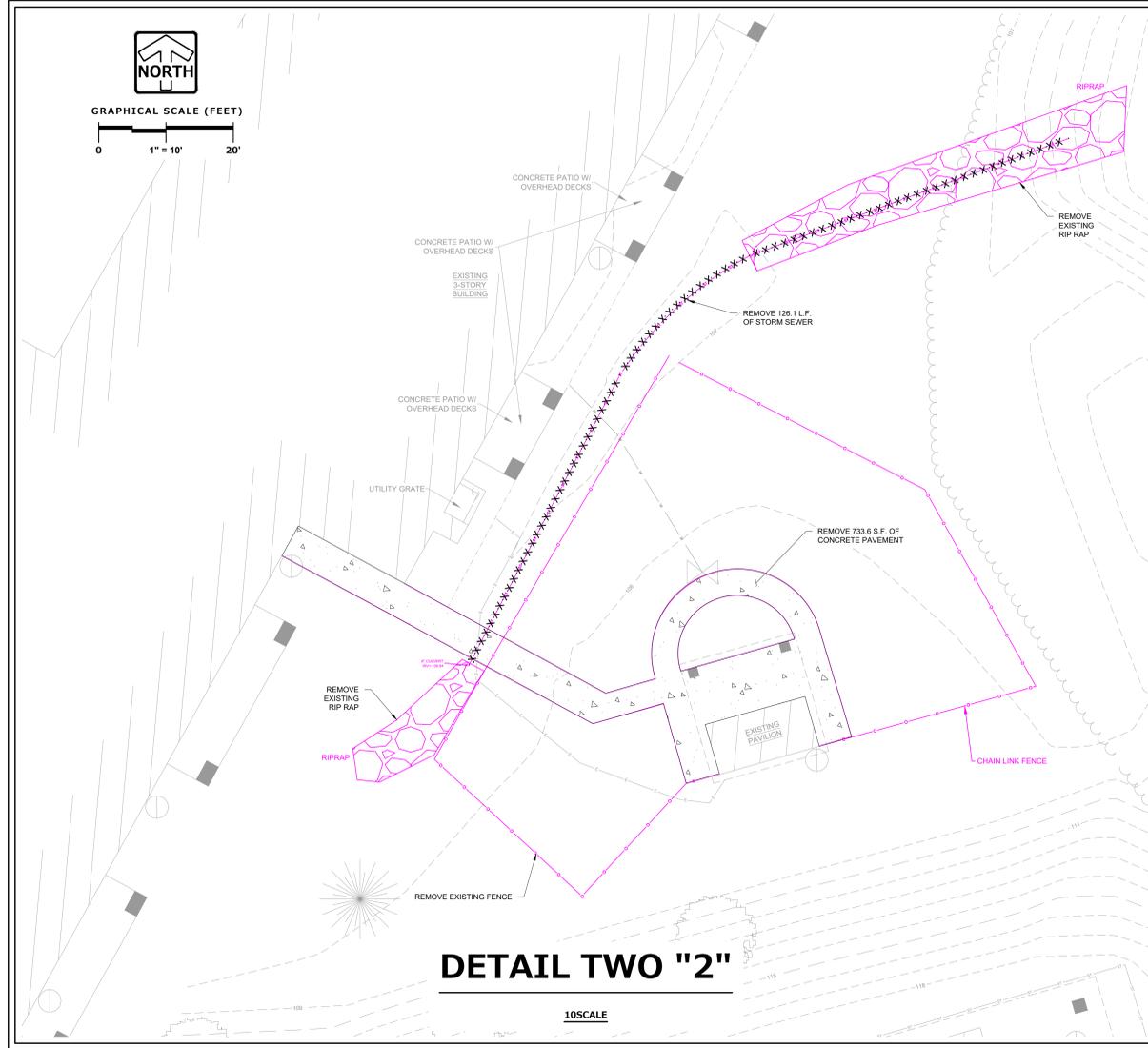
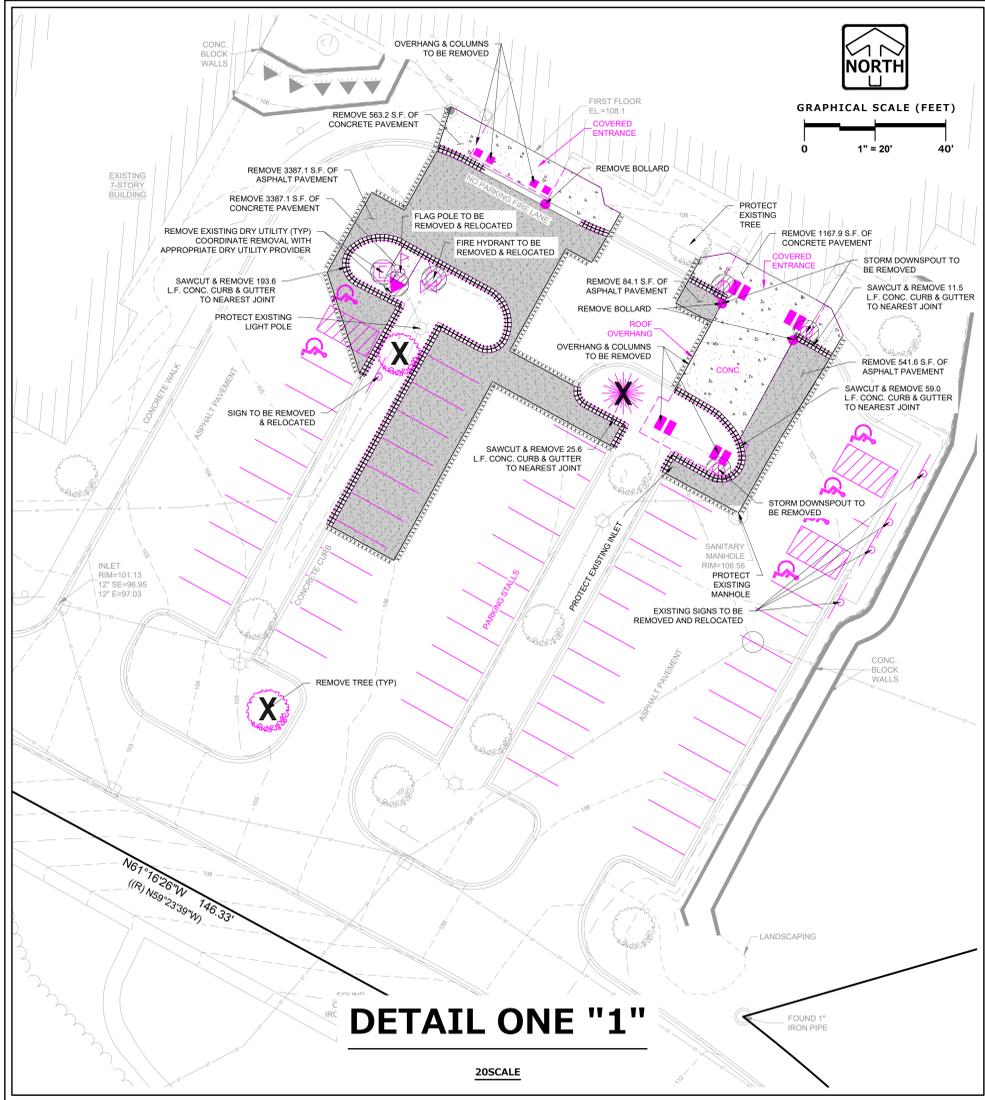
GRAPHICAL SCALE (FEET)  
0 1" = 40' 80'

LEGEND	
	LIGHT DUTY PAVEMENT
	ASPHALT PAVEMENT CRACK SEAL AND SEAL COAT
	CONCRETE PAVEMENT
	CONCRETE SIDEWALK
	ARTIFICIAL TURF
	RIP RAP



CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	193.72'	525.00'	S41°20'03"E (R) S39°22'19"E	192.62'
C2	252.94'	475.00'	N46°01'07"W (R) N44°08'20"W	249.96'
C3	53.45'	215.00'	N54°09'08"W (R) N52°16'21"W	53.31'

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 8220 Harwood Ave., Wauwatosa, WI 53033  
 Tax Key ID Numbers: #3710264005 & #3710264004  
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 BID PACKAGE  
 DATE: 02-11-2025  
 JOB NO.: 230158-01  
 SHEET NO.:  
 C300  
 PINNACLE ENGINEERING GROUP  
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 OVERALL LOCATION PLAN



LEGEND	
	REMOVE EXISTING FEATURE
	REMOVE CONC. CURB & GUTTER
	REMOVE UTILITY (SEE DESCRIPTION ON PLANS)
	SAWCUT EXISTING PAVEMENT
	REMOVE EXISTING CONCRETE
	REMOVE EXISTING ASPHALT
	REMOVE EXISTING GRAVEL
	REMOVE EXISTING PAVERS
	REMOVE EXISTING RIP RAP
	REMOVE EXISTING UTILITY
	REMOVE/RELOCATE EXISTING TREE

**CONTRACTOR RESPONSIBILITY:**

THE INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. IF ADDITIONAL UTILITIES ARE KNOWN TO EXIST IN THE PROPERTY, THE OWNER WILL PROVIDE EXISTING PLANS OF OTHER UTILITIES SERVING THE SITE AND THE BUILDING THAT OTHERWISE CANNOT BE LOCATED BY A VISUAL OBSERVATION OF THE PROPERTY OR OF WHICH THE SURVEYOR WOULD HAVE NO KNOWLEDGE.

THE INFORMATION SHOWN ON THIS DRAWING CONCERNING VIA RAIL PLANS FOR THE UNION PACIFIC RAILROAD TRACK CONSTRUCTION SHALL BE COORDINATED WITH CIVIL PLANS. ANY DISCREPANCIES SHALL BE COORDINATED PRIOR TO CONSTRUCTION.

**REFER TO C100 FOR DEMOLITION AND CLEARING NOTES**

1  
2  
3  
4  
5  
6

A  
B  
C  
D

PROJ. NO. 2310 HARWOOD PL. WILSON, WI. 53093  
DATE: 02-11-2025  
JOB NO.: 230158-01  
SHEET NO.: C301

PLUNKETT RAY SICH ARCHITECTS, LLP  
ARCHITECTS, LLP

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6220 Harwood Ave. Wauwatessa, WI 53093  
Fax Key ID Numbers: #0710264005 & #6371026404

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BID PACKAGE  
DATE: 02-11-2025  
JOB NO.: 230158-01  
SHEET NO.: C301

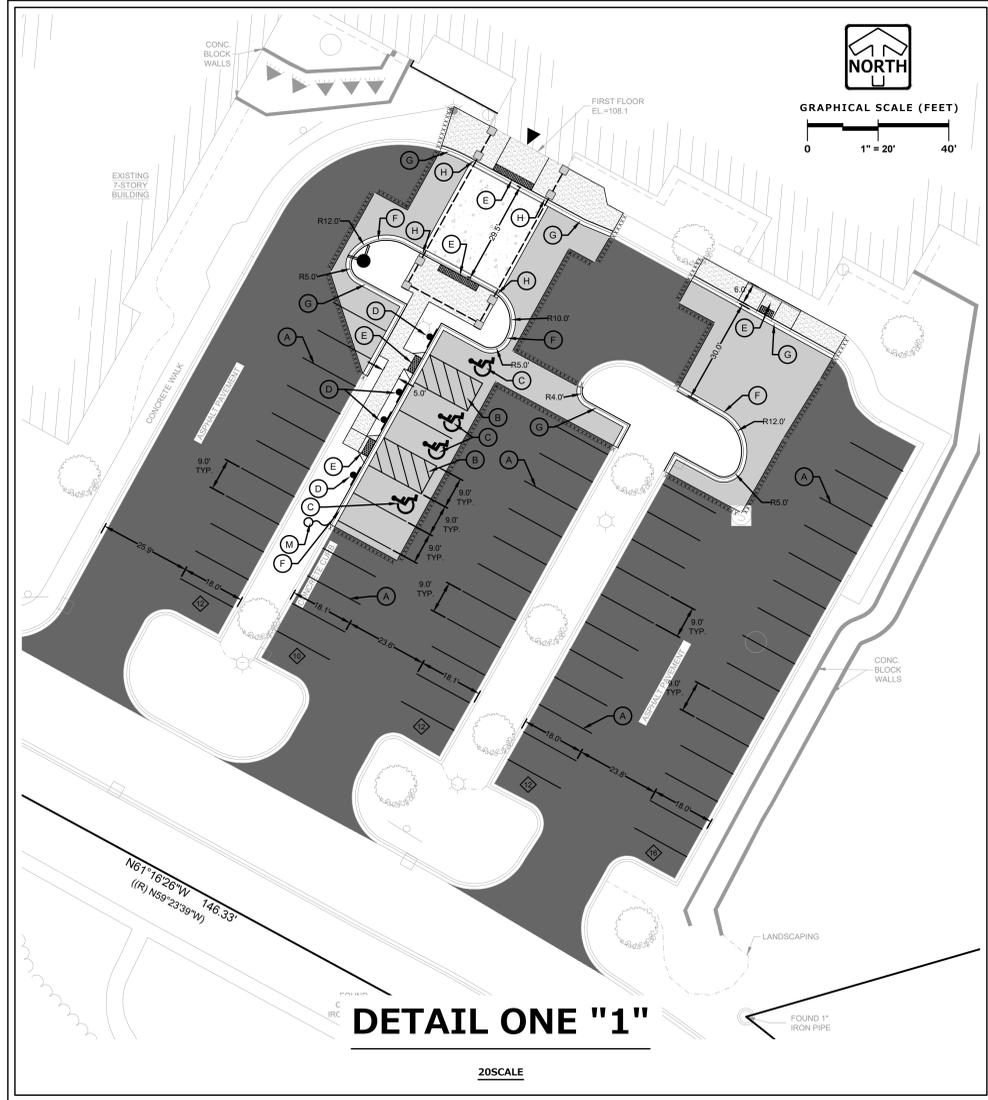
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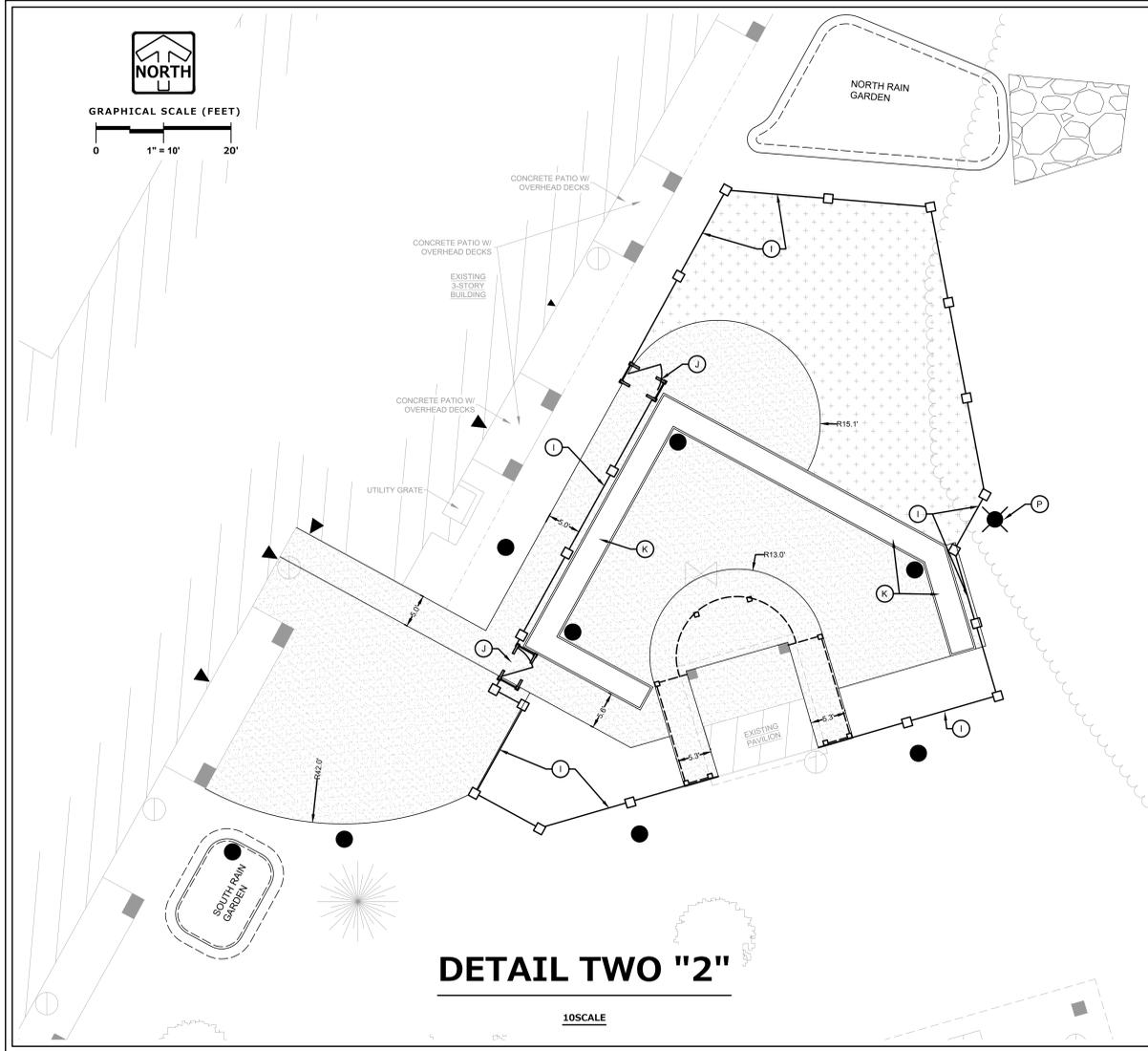
DETAILED DEMOLITION PLAN

DRAWN BY: APM



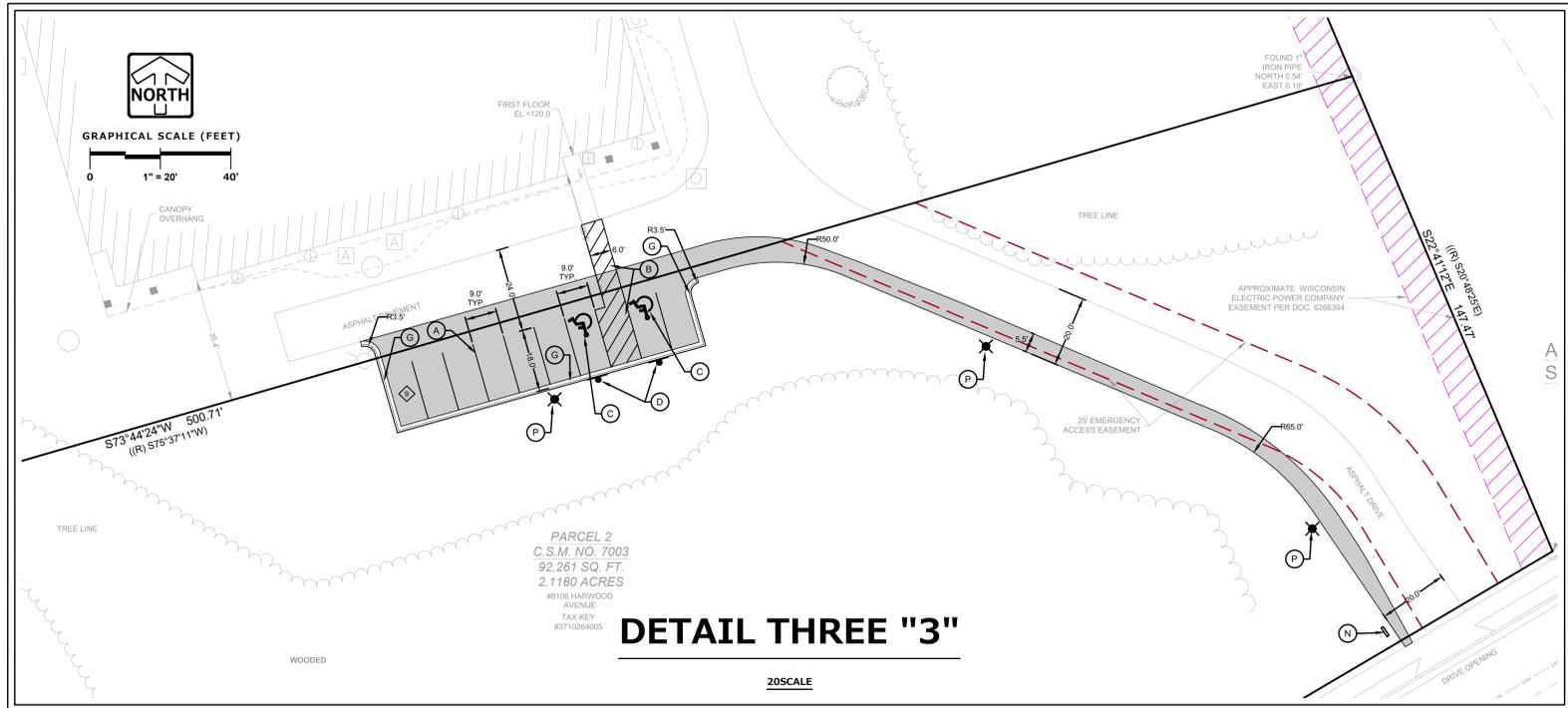
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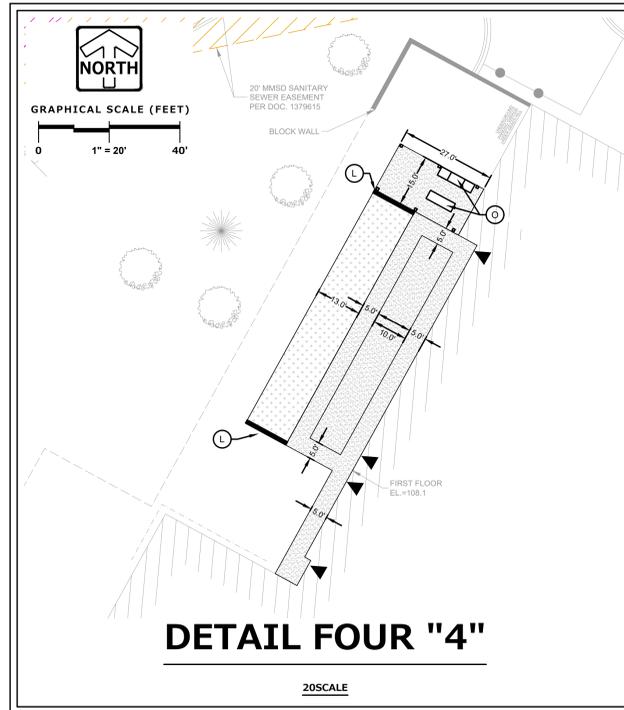
**DETAIL TWO "2"**

10SCALE



**DETAIL THREE "3"**

20SCALE



**DETAIL FOUR "4"**

20SCALE

**LEGEND**

- LIGHT DUTY PAVEMENT  
4" CRUSHED AGGREGATE BASE COURSE (1-1/2" DENSE GRADED LIMESTONE)  
3-1/2" ASPHALTIC CONC. (2 LPTS)  
LOWER LAYER (E-1 MIX, 24.0 mm NOMINAL SIZE)  
UPPER LAYER (E-1 MIX, 9.5 mm NOMINAL SIZE)
- ASPHALT PAVEMENT CRACK SEAL AND SEAL COAT
- CONCRETE PAVEMENT  
4" CRUSHED AGGREGATE BASE COURSE (1-1/2" DENSE GRADED LIMESTONE)  
8" RCC (4000 PSI AIR ENTRAINED CONCRETE WITH 60x60 GAUGE STEEL MESH)
- CONCRETE SIDEWALK  
4" CRUSHED AGGREGATE BASE COURSE (1-1/2" DENSE GRADED LIMESTONE)  
5" RCC (5000 PSI AIR ENTRAINED CONCRETE WITH 60x60 GAUGE STEEL MESH)
- ARTIFICIAL TURF  
DESIGNED BY OTHERS
- RIP RAP  
SEE DETAIL
- SOLID PARKING STRIPE, 3" PAINT (WHITE)
- SOLID DIAGONAL STRIPE AT 45° SPACED 2' O.C., 3" PAINT (WHITE)
- ADA SYMBOL, PAINT (COLOR PER CODE)
- SALVAGED HANDICAP PARKING SIGN (SEE DETAIL)
- ADA COMPLIANT RAMP WITH TRUNCATED DOMES AND DEPRESSIONED CURB (SEE DETAIL)
- 18" CURB & GUTTER (SEE DETAIL)
- 18" REVERSE CURB & GUTTER (SEE DETAIL)
- TAPER CURB HEAD (SEE DETAIL)
- 5' TALL ALUMINUM FENCE (REFER TO LANDSCAPE PLAN)
- 5' TALL ALUMINUM GATE (REFER TO LANDSCAPE PLAN)
- RAISED CONCRETE BLOCK PLANTER (SEE DETAIL)
- CONCRETE BLOCK KNEE WALL (SEE DETAIL)
- SALVAGED FLAG POLE (REFER TO BUILDING PLAN)
- 3' WIDE X 3' TALL POST AND PANEL SIGN (REFER TO BUILDING PLAN)
- OUTDOOR KITCHEN (REFER TO BUILDING PLAN)
- LIGHT POLE (REFER TO BUILDING PLAN)
- PARKING COUNT (FOR INFORMATION ONLY, NOT TO BE PAINTED)
- MAN DOOR

**SITE DATA TABLE**

TOTAL PROPERTY AREA*	519,094 SF (11.9168 AC)
*TOTAL PROPERTY INCLUDES TAX KEYS #3710264005 & #3710264004	
EXISTING PAVEMENT AREA:	327,388 SF (7.5158 AC)
EXISTING IMPERVIOUS AREA:	191,706 SF (4.4010 AC)
PROPOSED PAVEMENT AREA:	319,098 SF (7.3255 AC)
PROPOSED IMPERVIOUS AREA:	199,996 SF (4.5913 AC)
TOTAL DISTURBANCE AREA:	31,263 SF (0.7177 AC)
NET IMPERVIOUS AREA INCREASE:	8,290 SF (0.1903 AC)
EXISTING PARKING STALL COUNT:	91 STALLS
- SURFACE PARKING:	4 ADA STALLS
REQUIRED:	6 ADA STALLS (ALL VAN ACCESSIBLE)
PROVIDED:	
PROPOSED PARKING STALL COUNT:	101 STALLS
- SURFACE PARKING:	5 ADA STALLS
REQUIRED:	6 ADA STALLS (ALL VAN ACCESSIBLE)
PROVIDED:	
BUILDING UNIT BREAKDOWN:	
APARTMENT:	
- 1 BEDROOM: 61 UNITS (30% UNIT TYPE)	
- 2 BEDROOM: 108 UNITS (54% UNIT TYPE)	
- ASSISTED LIVING SUITES: 32 (16% UNIT TYPE)	
- TOTAL: 201 UNITS	

REFER TO C100 FOR SITE PLAN NOTES

REFER TO SHEETS C400 AND C401 FOR CONSTRUCTION DETAILS

ALL CONSTRUCTION MATERIALS TO BE STORED ON SITE

NO TRUCKING IS ALLOWED ON RESIDENTIAL STREETS

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HARWOOD PLACE RENOVATION  
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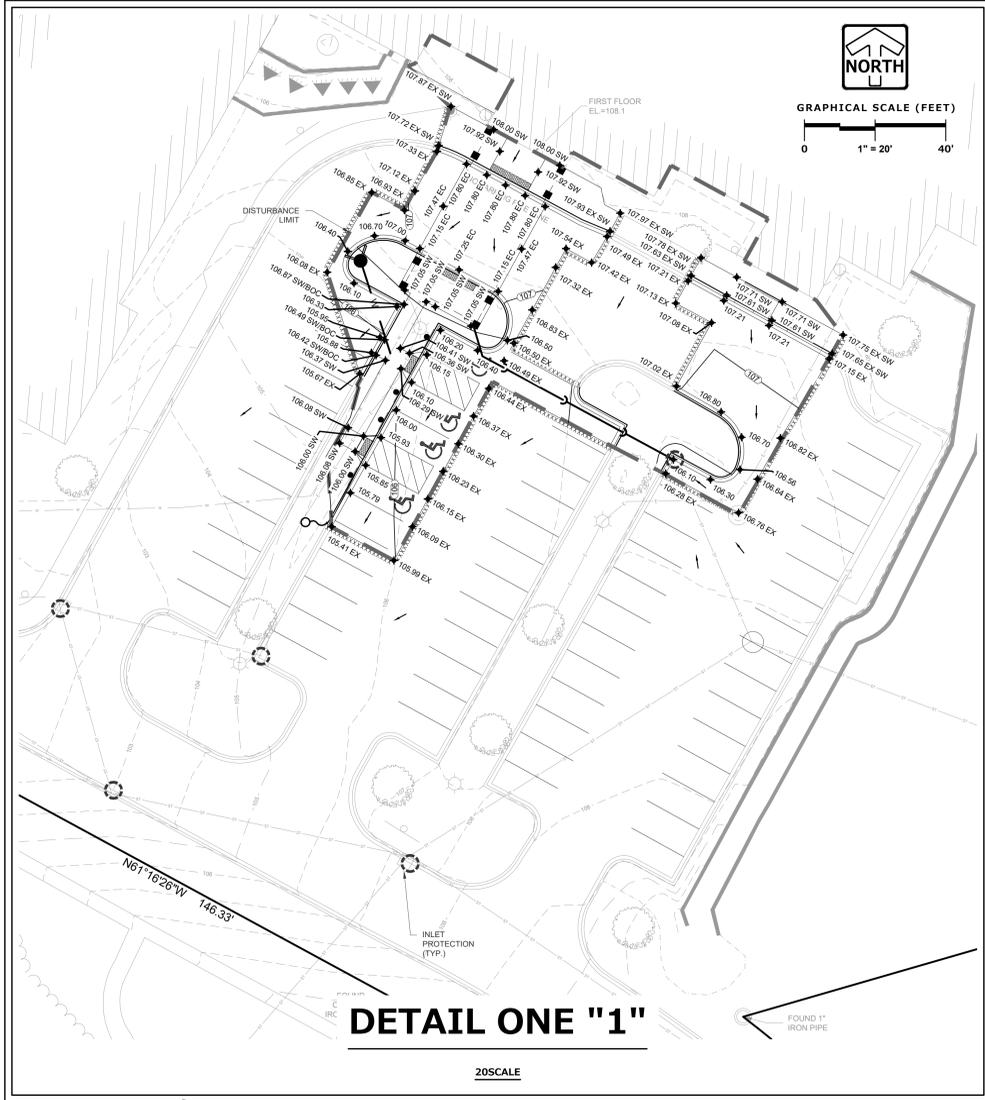
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1975 MAIN STREET, SUITE 201, WATERTOWN, WISCONSIN 53186  
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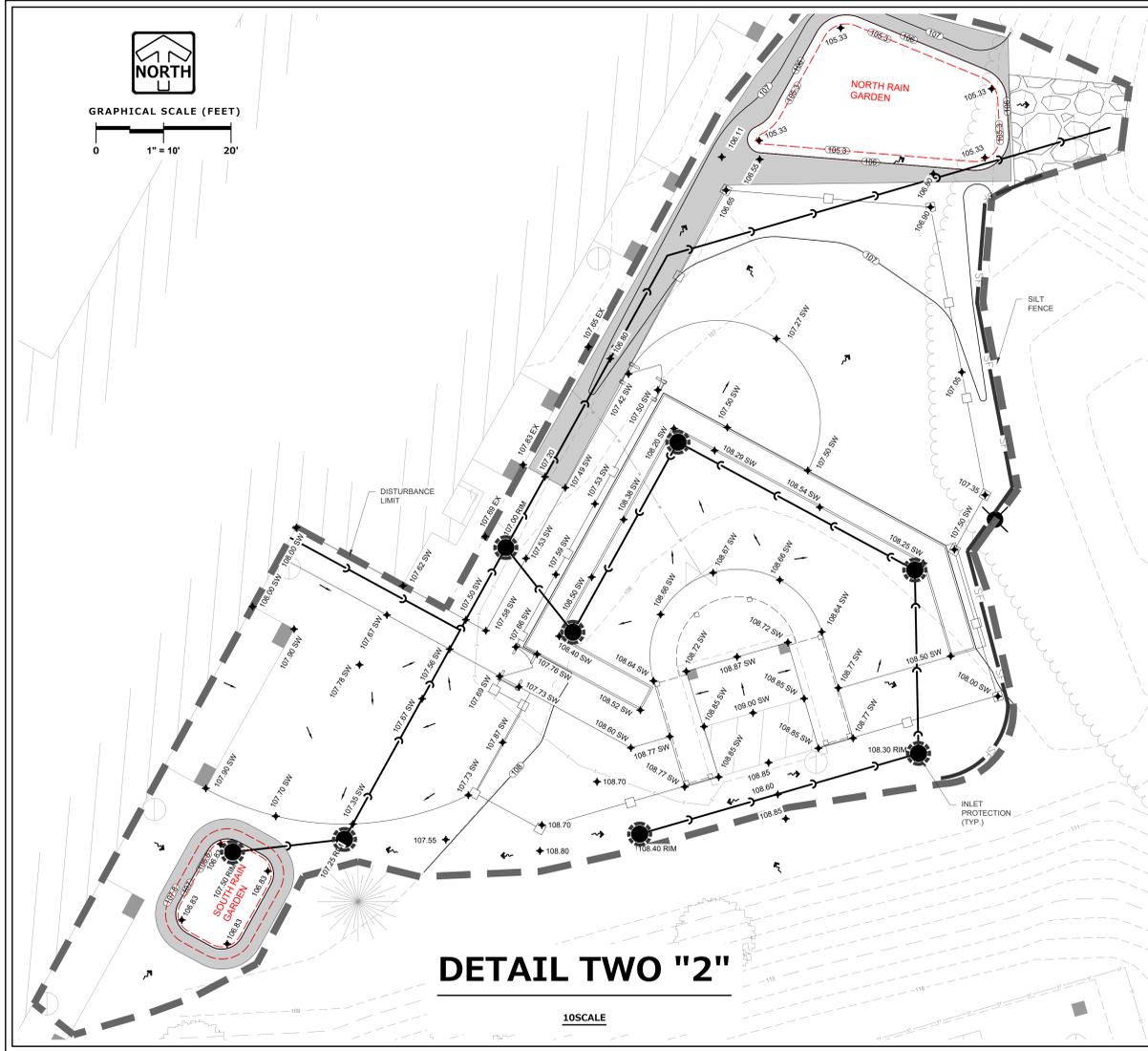
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DETAILED SITE DIMENSIONAL PLAN



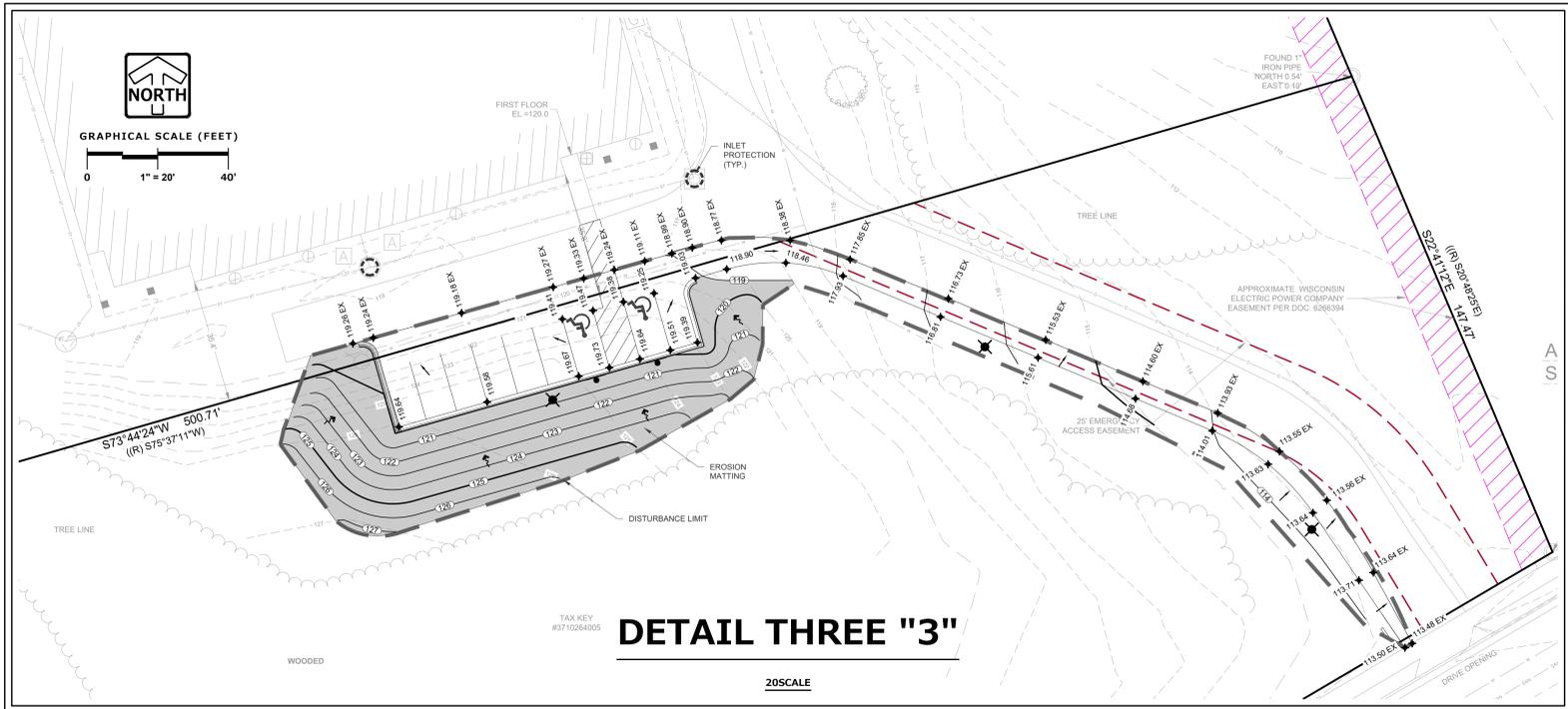
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20SCALE



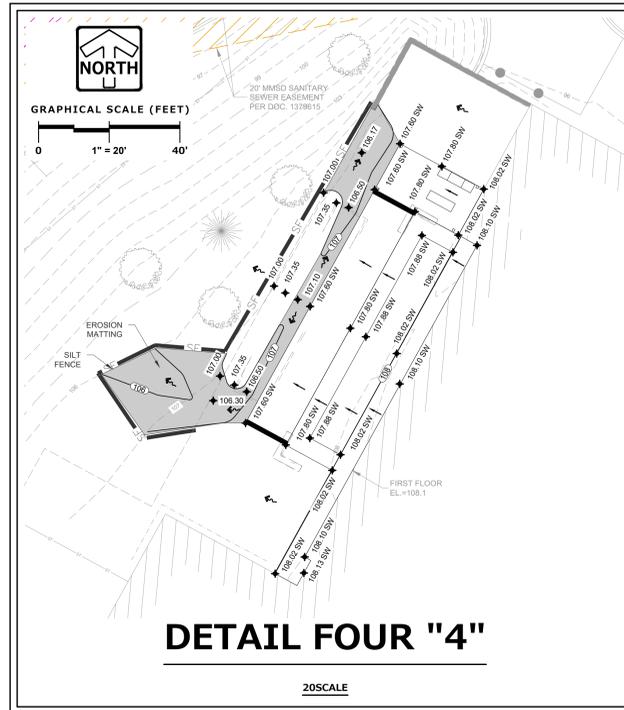
**DETAIL TWO "2"**

10SCALE



**DETAIL THREE "3"**

20SCALE



**DETAIL FOUR "4"**

20SCALE

LEGEND	
	STORM SEWER MANHOLE
	STORM SEWER CATCH BASIN- ROUND CASTING
	STORM SEWER CATCH BASIN- RECTANGULAR CASTING
	PROPOSED CONCRETE FLARED END SECTION
	PROPOSED CONTOUR
	EXISTING CONTOUR
	DIRECTION OF SURFACE FLOW
	DITCH OR SWALE
	SILT FENCE
	INLET PROTECTION
	EROSION CONTROL BLANKET
	CHANNEL- NORTH AMERICAN GREEN C1250N OR EQUAL
	NON-CHANNEL- NORTH AMERICAN GREEN 575 OR EQUAL
	DISTURBANCE LIMIT

REFER TO C100 FOR GRADING AND CITY OF WAUWATOSA EROSION CONTROL NOTES

REFER TO SHEETS C400 AND C401 FOR CONSTRUCTION DETAILS AND EROSION CONTROL NOTES

- CITY OF WAUWATOSA NOTES**
1. NOTIFY THE CITY ENGINEERING DEPARTMENT (479-8934) WITHIN TWO WORKING DAYS OF COMMENCING ANY LAND DEVELOPMENT OR LAND DISTURBING ACTIVITY.
  2. NOTIFY THE CITY OF COMPLETION OF ANY BEST MANAGEMENT PRACTICES WITHIN THE NEXT WORKING DAY AFTER THEIR INSTALLATION.
  3. OBTAIN PERMISSION IN WRITING FROM THE CITY OF WAUWATOSA ENGINEERING DEPARTMENT PRIOR TO MODIFYING THE EROSION CONTROL PLAN.
  4. INSPECT THE BEST MANAGEMENT PRACTICES AFTER EACH RAIN RAIN EVENT OF 0.5 INCHES OR MORE AND AT LEAST ONCE EACH WEEK AND MAKE REPAIRS.
  5. SOIL OR DIRT STORAGE PILES SHALL BE LOCATED A MINIMUM OF TWENTY-FIVE FEET FROM ANY DOWNSTREAM ROAD, LAKE, STREAM, WETLAND OR DRAINAGE CHANNEL. STRAW BALE OR FILTER FABRIC FENCES SHALL BE PLACED ON THE DOWNSIDE OF THE PILES. IF REMAINING FOR MORE THAN SEVEN DAYS, PILES SHALL BE STABILIZED BY MULCHING, VEGETATIVE COVER, TARPS OR OTHER MEANS.

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 311 Corporate Center, Suite 100, Wauwatosa, WI 53190

**pro** PLUNKETT RAYSICH ARCHITECTS, LLP

**THE LUTHERAN HOME**  
**HARWOOD PLACE RENOVATION**  
 8220 Harwood Ave., Wauwatosa, WI 53193  
 Tax Key ID Numbers: #0710284005 & #0710284004

REVISIONS:

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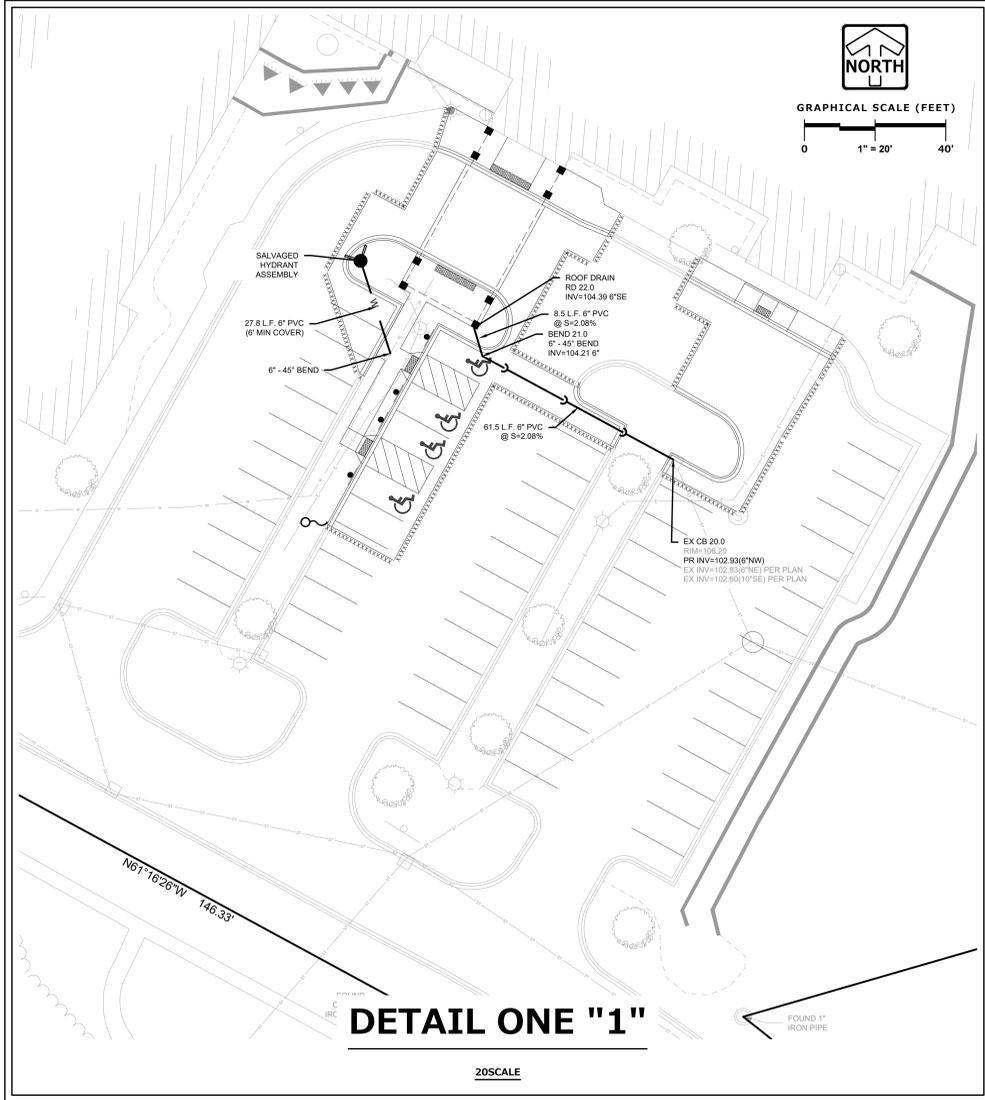
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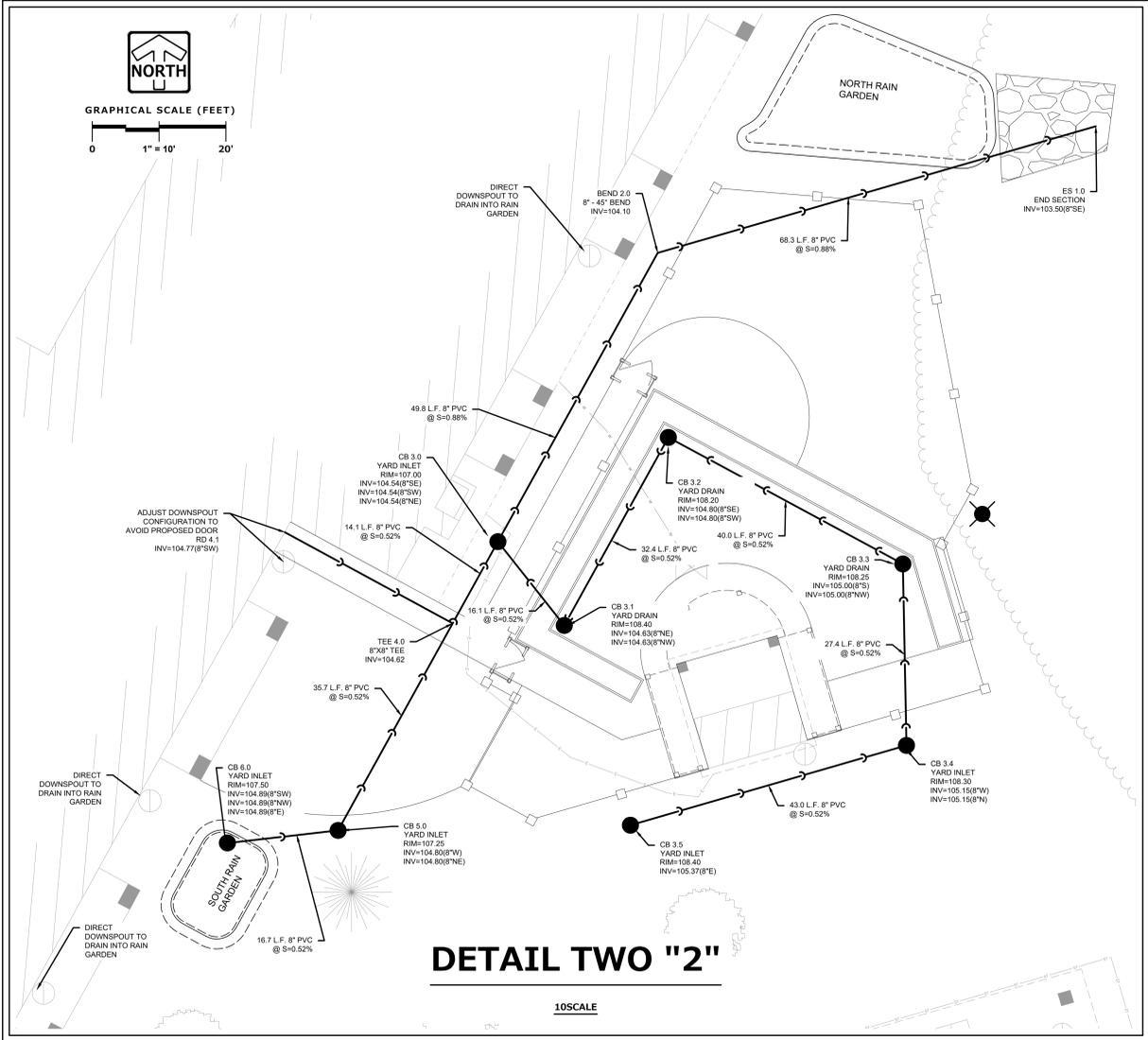
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**C303**



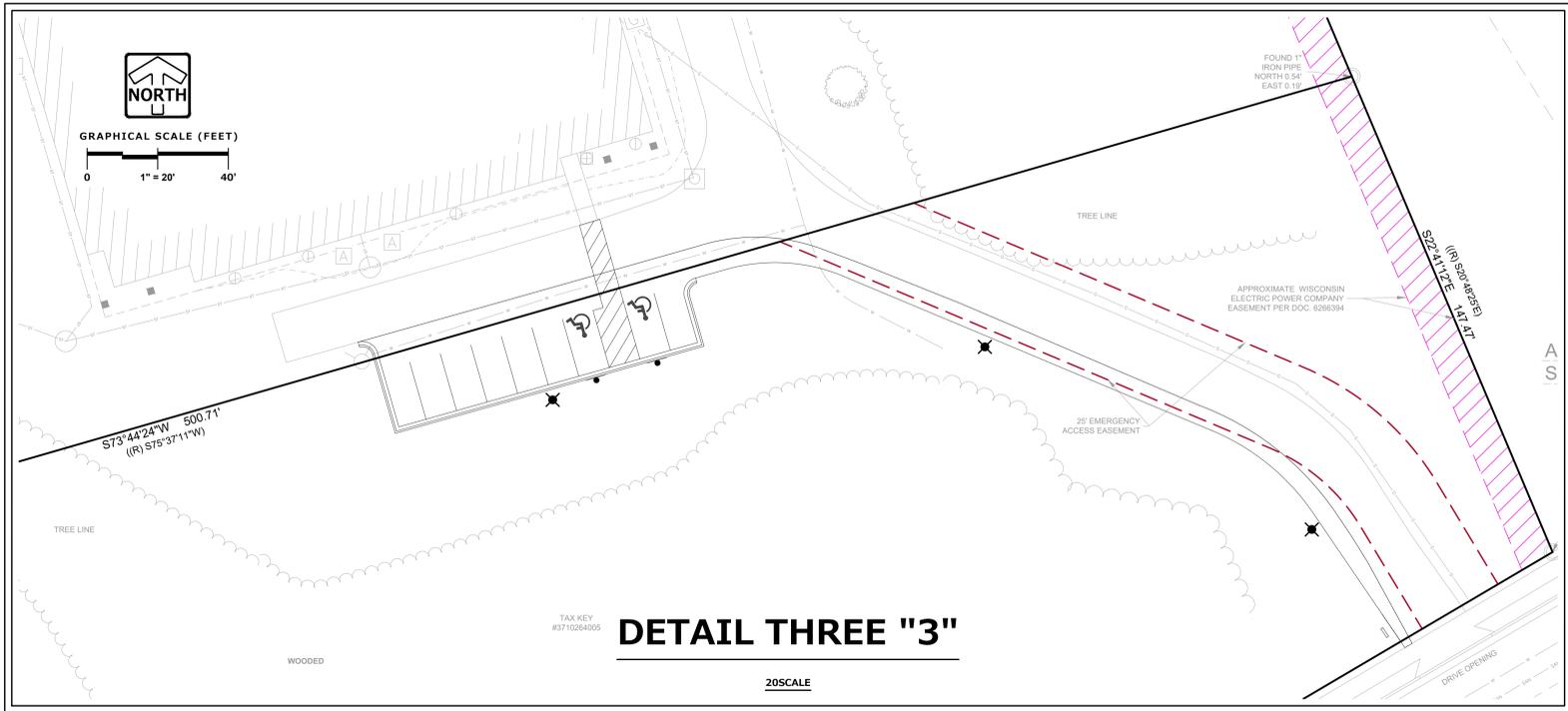
**DETAIL ONE "1"**

20SCALE



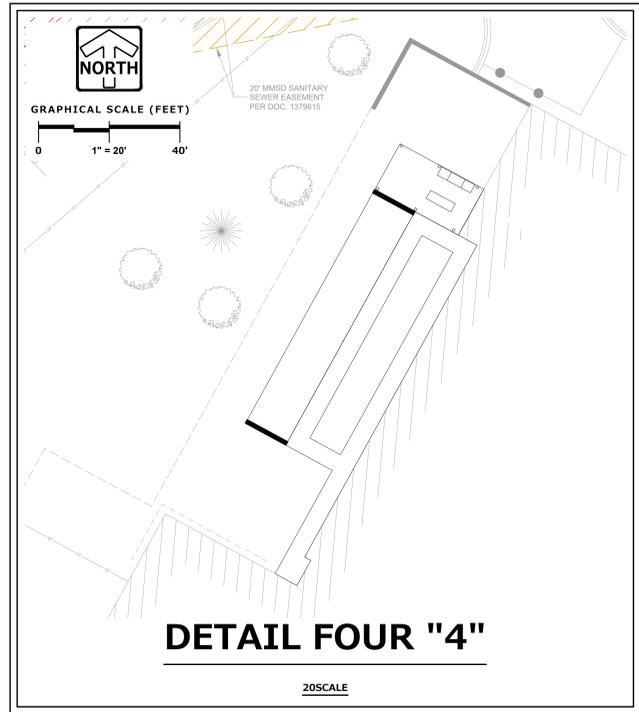
**DETAIL TWO "2"**

10SCALE



**DETAIL THREE "3"**

20SCALE



**DETAIL FOUR "4"**

20SCALE

LEGEND	
	SANITARY SEWER MANHOLE
	STORM SEWER MANHOLE
	STORM SEWER CATCH BASIN (ROUND CASTING)
	STORM SEWER CATCH BASIN (RECTANGULAR CASTING)
	PRECAST CONCRETE FLARED END SECTION
	CLEANOUT
	VALVE BOX
	FIRE HYDRANT
	STORM SEWER
	WATER MAIN
	UTILITY CROSSING

REFER TO CONSTRUCTION DETAIL SHEET C400 & C401 FOR ALL UTILITY RELATED CONSTRUCTION DETAILS

PRIOR TO CONSTRUCTION TELEVIEW ALL PRIVATE UTILITIES IN THE PROJECT AREA TO DETERMINE CONDITION AND REPORT TO OWNER/ENGINEER ANY DEFICIENCIES SHOULD BE CORRECTED PRIOR TO CONSTRUCTION OF THE PROPOSED LATERAL.

REFER TO C100 FOR UTILITY, PRIVATE STORM SEWER, AND PRIVATE WATER MAIN NOTES

- CITY OF WAUWATOSA NOTES**
- CURRENT PERMIT APPLICATION CHARGES ARE \$560 FOR NEW WATER SERVICES INSTALLATION LARGER THAN 2".
  - NEW SERVICES LARGER THAN 2" REQUIRE AN APPROVED TWO PIECE STAINLESS STEEL HEAVY DUTY TAPPING SLEEVE WITH SLIP THROUGH BOLTS AND A RESILIENT WEDGE GATE VALVE.
  - APPROVED STAINLESS STEEL SLEEVES INCLUDE: SMITH-BLAIR 665 OR ROMAC ST5420 BOTH WITH A FLANGE OUTLET.
  - THE CONTRACTOR WILL SUPPLY THE APPROVED MATERIAL (FLANGE TAPPING SLEEVE, FLANGE BY M3 RESILIENT WEDGE GATE VALVE - OPENS RIGHT AND COMPLETE VALVE BOX.)
  - CONTRACTOR IS RESPONSIBLE FOR EXPOSING/PREPPING THE WATER MAIN AND INSTALLING PROPER SHORING.
  - IF THE EXISTING LATERALS FOR THESE PROPOSED BUILDINGS DO NOT EXIST WET TAPS ARE ACCEPTABLE. THE CONTRACTOR WOULD BE REQUIRED TO COMPLETE THE WORK AND PROVIDE ALL PARTS AND TAPS THE MAIN WITH EITHER SMITH-BLAIR 665 OR ROMAC SST ILL.
  - IF NO VALVES FOR THE EXISTING LATERALS ARE FOUND, A NEW VALVE WILL BE REQUIRED FOR EACH LATERAL TO BE LOCATED OFF OF THE PUBLIC MAIN.

2024 PLUNKETT RAYSICH ARCHITECTS, LLP  
 1415 2ND STREET, SUITE 200, WAUWATOSA, WI 53186  
 2620 W. WATER TOWN ROAD, SUITE 100, BROOKFIELD, WI 53136  
 1975 MAIN STREET, SUITE 201, WISCONSIN, WAUKESHA, WI 53186  
 311 SUPERIOR STREET, SUITE 200, WAUKESHA, WI 53186

**pro** PLUNKETT RAYSICH ARCHITECTS, LLP

THE LUTHERAN HOME  
 HARWOOD PLACE RENOVATION  
 8220 Harwood Ave., Wauwatosa, WI 53186  
 REVISIONS: (Tax Key ID Numbers: #3710264005 & #3710264004)

NOT FOR CONSTRUCTION  
 DRB RESUBMITTAL  
 BID PACKAGE  
 DATE: 02-11-2025  
 JOB NO.: 230158-01  
 SHEET NO.: C304

1.0 POTENTIAL POLLUTANT SOURCES

1.0.1 GIVEN THE PROPOSED ACTIVITY ON THE PROJECT SITE, THE PRIMARY POTENTIAL POLLUTANT SOURCE ASSOCIATED WITH THIS CONSTRUCTION PROJECT IS SOIL EROSION AND TRANSPORTATION. REFER TO SECTION 4 OF THIS PLAN. ADDITIONAL POTENTIAL SOURCES OF POLLUTION MAY INCLUDE: FUEL TANKS, WASTE CONTAINERS, OIL OR OTHER PETROLEUM PRODUCTS, DETRITUS, PAINTS, CONSTRUCTION DEBRIS, SANITARY STATIONS, FERTILIZERS, AND DUST; REFER TO SECTION 5 OF THIS PLAN.

2.0 EROSION AND SEDIMENT CONTROL IMPLEMENTATION

2.0.1 THE FOLLOWING ARE DESCRIPTIONS OF THE EROSION AND SEDIMENT CONTROL PRACTICES THAT SHALL BE IMPLEMENTED DURING CONSTRUCTION OF THIS PROJECT. IN ADDITION TO THESE MEASURES, CONTRACTOR SHALL DISTURB ONLY AREAS NECESSARY TO COMPLETE THE CONSTRUCTION PROJECT. ALL PRACTICES SHALL BE CONDUCTED IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES (BMP).

2.1 CONSTRUCTION AND EROSION CONTROL SEQUENCING

2.1.1 CONSTRUCTION SEQUENCING WILL BE UTILIZED AS A MEANS OF CONTROLLING EROSION AND LIMITING SEDIMENT TRANSPORT. SEQUENCING AS LISTED BELOW IS GENERAL IN NATURE AND MAY VARY DEPENDING ON WEATHER CONDITIONS AND/OR PHASING OF CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A DETAILED SITE SEQUENCING PLAN TO OWNER FOR APPROVAL AT LEAST 6 BUSINESS DAYS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. CONTRACTOR MAY MODIFY SEQUENCING AFTER ITEM 6 AS NEEDED TO COMPLETE CONSTRUCTION ONLY IF EROSION CONTROLS ARE MAINTAINED IN ACCORDANCE WITH THE CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL REQUIREMENTS.

- INSTALL TEMPORARY CONSTRUCTION ENTRANCES, INLET PROTECTION ON EXISTING STORM SEWER AND CULVERT INLET LOCATIONS SEDIMENT TRAPS, DIVERSION BERMS, DITCH CHECKS, AND PERIMETER SILT FENCING. ANTICIPATED START DATE: XXXXX XX, 20XX ANTICIPATED END DATE: XXXXX X, 20XX
- INSTALL SILT FENCING ALONG THE PERIMETER OF PROPOSED TOPSOIL STOCKPILE LOCATIONS. THE FIRST TOPSOIL DEPOSITED WITHIN THE STOCKPILE LIMITS SHALL BE PLACED TO CREATE TEMPORARY BERMS ALONG THE SILT FENCE TO PREVENT DIRECT STORMWATER RUNOFF AGAINST SILT FENCING. CONTRACTOR SHALL LIMIT LAND DISTURBING ACTIVITIES ASSOCIATED WITH TEMPORARY BERMING TO A MINIMUM. ANTICIPATED START DATE: XXXXX XX, 20XX ANTICIPATED END DATE: XXXXX X, 20XX
- CONDUCT ROUGH GRADING OPERATIONS AND UTILITY PIPING INSTALLATION. DRAIN TILE SHALL NOT BE INSTALLED UNTIL UPLAND AREAS CONTRIBUTING STORMWATER RUNOFF ARE STABILIZED. DITCH CHECKS SHALL BE INSTALLED WITHIN DRAINAGE DITCHES IMMEDIATELY FOLLOWING CREATION OF DITCHES AND INLET PROTECTION SHALL BE INSTALLED TO PROTECT ANY STORM SEWER OR CULVERTS THAT WILL FUNCTION DURING CONSTRUCTION. ANTICIPATED START DATE: XXXXX XX, 20XX ANTICIPATED END DATE: XXXXX X, 20XX
- FINE GRADE SUB-GRADE SOILS WITHIN PAVEMENT AND BUILDING LIMITS. PLACE STONE BASE MATERIAL AS SOON AS POSSIBLE FOLLOWING COMPLETION OF FINE GRADING EFFORTS. ANTICIPATED START DATE: XXXXX XX, 20XX ANTICIPATED END DATE: XXXXX X, 20XX
- FINE GRADE REMAINING DISTURBED AREAS. PLACE SALVAGED TOPSOIL, EROSION BLANKETS/MATTING, AND SEED/MULCH AS SOON AS POSSIBLE FOLLOWING COMPLETION OF FINE GRADING EFFORTS. ANTICIPATED START DATE: XXXXX XX, 20XX ANTICIPATED END DATE: XXXXX X, 20XX
- EROSION CONTROLS SHALL NOT BE REMOVED UNTIL SITE IS FULLY STABILIZED OR 70% VEGETATIVE COVER IS ESTABLISHED. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF SILT FENCE, TEMPORARY FENCING/PROTECTION, DITCH CHECKS, AND OTHER TEMPORARY CONTROLS, AND RESTORATION PRACTICES AS NECESSARY, TO THE SATISFACTION OF THE OWNER. ANTICIPATED START DATE: XXXXX XX, 20XX ANTICIPATED END DATE: XXXXX X, 20XX

2.2 STABILIZATION PRACTICES

2.2.1 THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES ARE INITIATED, SHALL BE RECORDED ON THE STABILIZATION SCHEDULE FOR MAJOR GRADING ACTIVITIES.

2.2.2 STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE BY THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. NO MORE THAN SEVEN (7) DAYS SHALL PASS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED UNLESS:

2.2.3 THE INITIATION OF STABILIZATION MEASURES BY THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECEDDED BY SNOW COVER. IN THAT EVENT, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.

2.2.4 CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN FOURTEEN (14) DAYS FROM WHEN ACTIVITIES CEASED, (I.E. THE TOTAL TIME PERIOD THAT THE CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN FOURTEEN (14) DAYS). IN THAT EVENT, STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED. SEE THE SOIL PROTECTION CHART PRESENTED IN THE CONSTRUCTION DOCUMENTS FOR RATES OF PERMANENT AND TEMPORARY VEGETATION.

2.2.5 STABILIZATION MEASURES SHALL BE DETERMINED BASED ON SITE CONDITIONS AT THE TIME CONSTRUCTION ACTIVITY HAS CEASED, INCLUDING BUT NOT LIMITED TO WEATHER CONDITIONS AND LENGTH OF TIME MEASURE MUST BE EFFECTIVE. THE FOLLOWING ARE ACCEPTABLE STABILIZATION MEASURES.

- PERMANENT SEEDING: IN ACCORDANCE WITH APPROVED LANDSCAPING PLAN. TEMPORARY SEEDING MAY CONSIST OF SPRING OATS (100LS/ACRE) AND/OR WHEAT OR CEREAL RYE (150LS/ACRE) HYDRO-MULCHING WITH A TACKIFIER
- GEOTEXTILE EROSION MATTING
- SODDING

2.3 STRUCTURAL PRACTICES

2.3.1 THE FOLLOWING ARE DESCRIPTIONS OF STRUCTURAL PRACTICES TO BE IMPLEMENTED TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS, OR OTHERWISE LIMIT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE INCLUDING THE PROPOSED AND EXISTING WETLAND AREAS. SUCH PRACTICES SHALL INCLUDE SILT FENCE, PROTECTION FENCE, CONSTRUCTION ENTRANCE, DITCH CHECK, EROSION CONTROL MATTING, DIVERSION BERM/SWALE, SEDIMENT TRAP, LEVEL SPREADER, INLET PROTECTION, OUTLET PROTECTION, AND TEMPORARY OR PERMANENT SEDIMENT BASIN. THE FOLLOWING STRUCTURAL PRACTICES ARE TO BE UTILIZED DURING THIS PROJECT.

2.3.2 SILT FENCE SHALL BE PLACED DOWN SLOPE OF DISTURBED AREAS OF THE CONSTRUCTION SITE AND AROUND THE PERIMETER OF THE TOPSOIL STOCKPILE. THIS INCLUDES PROTECTION OF EXISTING WETLAND AREAS TO BE MAINTAINED. SILT FENCE MAY ALSO BE USED AS A TEMPORARY CONTROL DEVICE WHERE SEDIMENTATION RUNOFF IS DISCOVERED.

2.3.3 CONSTRUCTION ENTRANCE SHALL BE INSTALLED TO REDUCE SOIL EROSION POLLUTANTS FROM LEAVING THE SITE DURING CONSTRUCTION ACTIVITIES. IF THE CRUSHED STONE DOES NOT ADEQUATELY REMOVE MUD FROM VEHICLE TIRES, THEY SHALL BE HOSED OFF BEFORE ENTERING A PAVED ROADWAY. ANY SOIL DEPOSITED ON THE PUBLIC PAVED ROAD WAY SHALL BE REMOVED IMMEDIATELY.

2.3.4 DITCH CHECK SHALL BE INSTALLED IN DRAINAGE CHANNELS AS NEEDED.

2.3.5 EROSION CONTROL MATTING SHALL BE PLACED ON AREAS OR EMBANKMENTS HAVING SLOPES GREATER THAN OR EQUAL TO 3H:1V, BEFORE VEGETATION IS ESTABLISHED.

2.3.6 INLET PROTECTION SHALL BE INSTALLED AT STORMWATER DRAINAGE INLETS TO REDUCE SEDIMENT WITHIN STORM SEWER CONVEYANCE FEATURES.

2.3.7 OUTLET SCOUR PROTECTION SHALL BE INSTALLED AT STORMWATER DRAINAGE OUTLETS TO DIFFUSE FLOWS.

3.0 ADDITIONAL PRACTICES

3.0.1 ADDITIONAL POLLUTANT CONTROL MEASURES TO BE IMPLEMENTED DURING CONSTRUCTION ACTIVITIES SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING.

3.0.2 CONSTRUCTION WASTE SHALL BE PROPERLY DISPOSED OF. THIS INCLUDES ALL CONSTRUCTION SITE WASTE MATERIAL, SANITARY WASTE, AND WASTE FROM VEHICLE TRACKING OF SEDIMENTS. THE CONTRACTOR SHALL ENSURE THAT NO MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, BURNED, OR DISCHARGED TO THE WATERS OF THE STATE. VEHICLES HAULING MATERIAL AWAY FROM THE SITE SHALL BE COVERED WITH A TARP/LINER TO PREVENT BLOWING DEBRIS.

3.0.3 DUST CONTROL SHALL BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING METHODS:

- COVERING 30% OR MORE OF THE SOIL SURFACE WITH A NON-ERODIBLE MATERIAL.
- ROUGHENING (EQUIPMENT TRACKING) THE SOIL TO PRODUCE RIDGES PERPENDICULAR TO THE PREVAILING WIND. RIDGES SHALL BE AT LEAST SIX (6) INCHES IN HEIGHT.
- FREQUENT WATERING OF EXCAVATION AND FILL AREAS.
- PROVIDING GRAVEL OR PAVING AT ENTRANCE/EXIT DRIVES, PARKING AREAS AND TRANSIT PATHS.

3.0.4 STREET SWEEPING SHALL BE PERFORMED TO IMMEDIATELY REMOVE ANY SEDIMENT TRACKED ON PAVEMENTS.

4.0 EROSION AND SEDIMENT STRUCTURAL PRACTICE MAINTENANCE

4.0.1 THE FOLLOWING MAINTENANCE PRACTICES SHALL BE USED TO MAINTAIN, IN GOOD AND EFFECTIVE OPERATING CONDITIONS, VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES, AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THIS PLAN. UPON IDENTIFICATION, DEFICIENCIES IN STORMWATER CONTROLS SHALL BE ADDRESSED IMMEDIATELY. THE MAINTENANCE PROCEDURES FOR THIS DEVELOPMENT SHALL INCLUDE, BUT NOT BE LIMITED TO THE BELOW.

4.0.2 SILT FENCE - REPAIR OR REPLACE ANY DAMAGED FILTER FABRIC AND/OR STAKES. REMOVE ACCUMULATED SEDIMENT WHEN IT HAS REACHED ONE-HALF THE ABOVE GROUND HEIGHT OF THE FENCE.

4.0.3 CONSTRUCTION ENTRANCE - AS NEEDED, ADD STONE TO MAINTAIN CONSTRUCTION ENTRANCE DIMENSIONS AND EFFECTIVENESS.

4.0.4 DITCH CHECK - RE-SECURE STAKES, ADJUST OR REPOSITION BELTS TO ADDRESS PROPER FLOW OF STORMWATER; AND REMOVE ACCUMULATED SEDIMENT WHEN IT HAS REACHED ONE-HALF THE HEIGHT OF THE BALE.

4.0.5 EROSION CONTROL MATTING - REPAIR MATTING IMMEDIATELY IF INSPECTION REVEALS BREACHED OR FAILED CONDITIONS. REPAIR AND RE-GRADE SOIL WHERE CHANNELIZATION HAS OCCURRED.

4.0.6 INLET PROTECTION - CLEAN, REPAIR OR REPLACE FILTER FABRIC AND/OR STONE WHEN CONTROL MEASURE IS CLOGGED. INLET FILTER BAGS SHALL BE REPLACED ONCE ONE-HALF FULL OF SEDIMENT.

4.0.7 OUTLET PROTECTION - CLEAN, REPAIR OR REPLACE FILTER FABRIC, TURF REINFORCEMENT MATTING AND/OR STONE WHEN CONTROL MEASURE IS ONE-HALF FULL OF SEDIMENT.

5.0 INSPECTION

5.0.1 INSPECTIONS SHALL BE COMPLETED WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A RAINFALL EVENT THAT IS ONE-HALF INCH OR GREATER OR EQUIVALENT SNOWFALL, OR AT A MINIMUM ONCE EVERY SEVEN (7) CALENDAR DAYS. INSPECTIONS SHALL BE UNDERTAKEN BY QUALIFIED PERSONNEL PROVIDED BY THE CONTRACTOR AND SHALL INCLUDE: DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED; STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE. A STORMWATER POLLUTION PREVENTION PLAN INSPECTION REPORT SHALL BE COMPLETED AND ADDED TO THE SWPPP. RAINFALL SHALL BE RECORDED ON THE SWPPP RAINFALL LOG. CONTRACTOR SHALL IMMEDIATELY ARRANGE FOR REPAIR OR REPLACEMENT OF ANY DAMAGED OR DEFICIENT CONTROL MEASURES OBSERVED DURING THE INSPECTION.

5.0.2 QUALIFIED PERSONNEL MEANS A PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROL MEASURES, SUCH AS A LICENSED PROFESSIONAL ENGINEER, A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL, A CERTIFIED EROSION SEDIMENT OR STORMWATER INSPECTOR, OR OTHER TRAINED INDIVIDUAL.

6.0 SPILL PREVENTION

6.1 GENERAL MATERIAL MANAGEMENT PRACTICES

6.1.1 THE GOOD HOUSEKEEPING PRACTICES LISTED BELOW SHALL BE FOLLOWED THROUGHOUT THE CONSTRUCTION PROJECT:

- CONTRACTOR SHALL STORE ONLY ENOUGH PRODUCTS REQUIRED TO COMPLETE THIS PROJECT.
- ALL MATERIAL SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR ORIGINAL CONTAINERS CONTAINING MANUFACTURER'S LABEL.
- MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED.
- MATERIALS REQUIRED TO HAVE A MATERIAL SAFETY DATA SHEET (MSDS) SHALL HAVE A COPY STORED IN THE PROJECT'S MSDS DATA BASE.

6.2 SPILL CONTROL PRACTICES

6.2.1 THE PRACTICES LISTED BELOW SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

- MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE MAINTAINED ON-SITE.
- IMMEDIATELY UPON DISCOVERY, ALL SPILLS SHALL BE CLEANED UP ACCORDING TO THE MANUFACTURERS' RECOMMENDED METHODS.
- PERSONNEL CLEANING UP A SPILL SHALL USE PERSONAL PROTECTIVE EQUIPMENT.
- IMMEDIATELY UPON DISCOVERY, SPILLS OF TOXIC OR HAZARDOUS MATERIALS SHALL BE REPORTED TO THE OWNER AND GENERAL CONTRACTOR.
- NOTIFICATION AND REPORTING TO THE APPROPRIATE FEDERAL, STATE, AND LOCAL GOVERNMENT AGENCIES SHALL BE MADE AS REQUIRED.

GENERAL INFORMATION:

7.0 THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN DEVELOPED TO FULFILL ONE OF THE REQUIREMENTS OF THE GENERAL ENVIRONMENTAL PROTECTION AGENCY (EPA) NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NSD/CORPUS POLLUTION DISCHARGE ELIMINATION SYSTEM) (WPDES) FOR THE DISCHARGE OF STORMWATER ASSOCIATED WITH CONSTRUCTION PROJECTS DISTURBING ONE ACRE OR MORE. THE OWNER AND CONTRACTORS SHALL COMPLY WITH ALL REQUIREMENTS OF THE WPDES FOR ALL SUCH CONSTRUCTION PROJECTS. THE STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY FROM THIS SITE ARE SUBJECT TO THE CONDITIONS AND REQUIREMENTS OF THE PERMITS.

7.1 THE EXECUTED OWNER CERTIFICATION AND THE CONTRACTOR CERTIFICATIONS SHALL BE KEPT ON-SITE WITH THE APPROVED PLANS.

SWPPP AVAILABILITY:

7.2 THE OWNER SHALL RETAIN A COPY OF THE SWPPP AT THE CONSTRUCTION SITE FROM THE DATE OF THE PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

KEEPING PLANS CURRENT:

7.3 THE CONTRACTOR SHALL AMEND THE PLAN WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE STATE AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE PLAN OR IF THE PLAN PROVES TO BE INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY CONTROLLING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION SITE ACTIVITY. IN ADDITION, THE PLAN SHALL BE AMENDED TO IDENTIFY ANY NEW CONTRACTOR AND/OR SUBCONTRACTOR THAT WILL IMPLEMENT A MEASURE OF THE PLAN. AMENDMENTS TO THE PLAN MAY BE REQUIRED BY THE MUNICIPALITY, OWNER, OR OTHER REVIEWING AGENCY. COPIES OF THE AMENDMENTS SHALL BE KEPT ON-SITE AS PART OF THE SWPPP.

RETENTION OF RECORDS:

7.4 THE OWNER SHALL RETAIN COPIES OF THIS AND ALL REPORTS AND NOTICES REQUIRED BY THIS PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT, FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE PERMIT COVERAGE EXPIRES OR IS TERMINATED. THIS PERIOD MAY BE EXTENDED BY THE REQUEST OF THE AGENCY AT ANY TIME. IN ADDITION, THE OWNER SHALL RETAIN A COPY OF THE PLAN REQUIRED BY THIS PERMIT AT THE CONSTRUCTION SITE FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

WPDES NOTICE OF TERMINATION GUIDANCE:

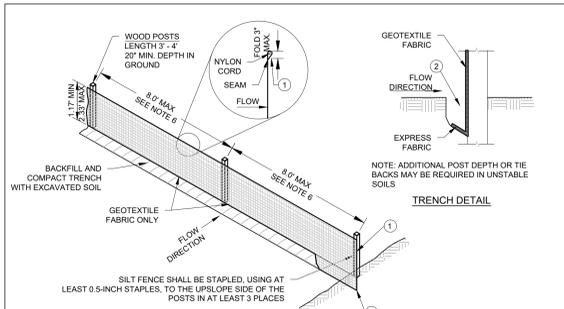
7.5 WHEN A SITE HAS BEEN FINALLY STABILIZED AND ALL STORMWATER DISCHARGES FROM CONSTRUCTION SITES THAT ARE AUTHORIZED BY THE PERMIT ARE ELIMINATED, THE OWNER OF THE FACILITY MUST SUBMIT A COMPLETED NOTICE OF TERMINATION THAT IS SIGNED IN ACCORDANCE WITH THE PERMIT. CONTRACTOR SHALL SUBMIT A COMPLETED NOTICE OF TERMINATION TO OWNER FOR EXECUTION PRIOR TO THEIR FINAL PAY APPLICATION REQUEST.

CONTROL MEASURE GROUP	CONTROL MEASURE	CONTROL MEASURE CHARACTERISTICS
VEGETATIVE SOIL COVER	TEMPORARY SEEDING PERMANENT SEEDING	PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING IS NOT DESIRED OR TIME OF YEAR IS INAPPROPRIATE. PROVIDES PERMANENT VEGETATIVE COVER TO CONTROL EROSION. FILTERS SEDIMENT FROM WATER. MAY BE PART OF FINAL LANDSCAPE PLAN.
NON VEGETATIVE SOIL COVER	AGGREGATE COVER PAVING	PROVIDES TEMPORARY COVER ON ROADS AND PARKING LOTS AND AREAS WHERE VEGETATION CANNOT BE ESTABLISHED. PREVENTS MUD FROM BEING PICKED UP AND TRANSPORTED OFF-SITE. PROVIDES PERMANENT COVER ON PARKING LOTS AND ROADS OR OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED.
DIVERSIONS	DIVERSION BERM / SWALE	DIVERTS RUNOFF TO A SEDIMENT TRAP OR OTHER CONTROL.
ENCLOSED DRAINAGE	STORM SEWER	CONVEYS SEDIMENT LADEN WATER TO A SEDIMENT BASIN.
OUTLETS	APRON ENDWALL OR RIPRAP	PROTECTS DOWNSTREAM CHANNEL FROM HIGH VELOCITY OF FLOW DISCHARGING FROM STRUCTURE.
SEDIMENT BASINS	TEMPORARY SEDIMENT TRAP	CONSTRUCTED TO REMOVE SILTATION FROM RUNOFF FROM SITE DIVERSION BERM/SWALES AND IN OVERLAND FLOOD ROUTE. CAN BE CONVERTED TO PERMANENT SEDIMENT BASIN.
SEDIMENT FILTERS	SILT FENCE INLET PROTECTION	PLACED DOWN SLOPE OF DISTURBED AREA TO KEEP RUNOFF CONTAINED ON-SITE. INSTALLED IN OPEN GRATE STRUCTURES TO COLLECT SEDIMENT.
MUD AND DUST CONTROL	DITCH CHECK CONSTRUCTION ENTRANCE STREET SWEEPING DUST CONTROL	PLACED IN DRAINAGE CHANNELS TO FILTER SEDIMENT FROM RUNOFF. REDUCES SOIL EROSION POLLUTANTS BEING TRANSPORTED OFF-SITE. REDUCES POLLUTANTS TRACKED FROM CONSTRUCTION SITE. PREVENTS DUST FROM LEAVING CONSTRUCTION SITE.

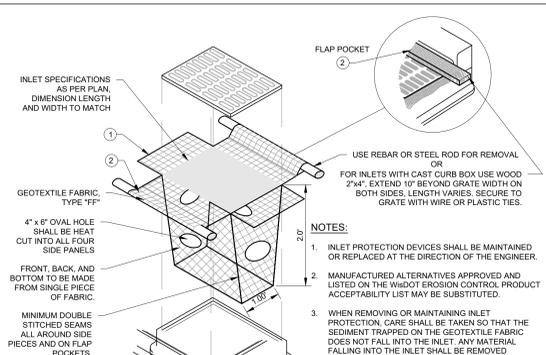
STABILIZATION EFFECTIVENESS (TIME OF YEAR)

STABILIZATION TYPE	STABILIZATION UTILIZATION PERIODS											
	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING				A		*	*	*	*	*	*	*
DORMANT SEEDING	B										B	
TEMPORARY SEEDING			C	*	*	*	*	D	*	*	*	*
SODDING			E	*	*	*	*	*	*	*	*	*

- A. KENTUCKY BLUEGRASS 90 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 30 LBS/ACRE.
  - B. KENTUCKY BLUEGRASS 135 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 45 LBS/ACRE + 2 TONS STRAW MULCH/ACRE.
  - C. SPRING OATS 100 LBS/ACRE.
  - D. WHEAT OR CEREAL RYE 150 LBS/ACRE.
  - E. SOOD.
  - F. STRAW MULCH 2 TONS/ACRE.
- \* IRRIGATION/WATERING REQUIRED TO SUPPORT ESTABLISHMENT AS NEEDED.



- ALL SILT FENCE MATERIALS AND INSTALLATION SHALL BE IN CONFORMANCE WITH WI DNR TECHNICAL STANDARD 1056.
- GEOTEXTILE FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS 1 WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN.
- SILT FENCE SHALL BE ANCHORED BY SPREADING AT LEAST 8-INCHES OF FABRIC IN A 4-INCH WIDE AND 6-INCH DEEP TRENCH OR 8-INCH DEEP V-TRENCH ON THE UPSLOPE SIDE OF THE FENCE. TRENCHES SHALL NOT BE EXCAVATED DEEPER OR WIDER THAN NECESSARY FOR PROPER INSTALLATION.
- FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
- WOOD POSTS SHALL BE A MINIMUM SIZE OF 1.125-INCHES x 1.125-INCHES OF DRIED OAK OR HICKORY.
- SILT FENCE TO EXTEND ABOVE THE TOP OF PIPE, WHERE APPLICABLE.
- POST SPACING SHALL BE SELECTED BASED ON GEOTEXTILE FABRIC (8-FEET FOR WOVEN AND 3-FEET FOR NON-WOVEN).



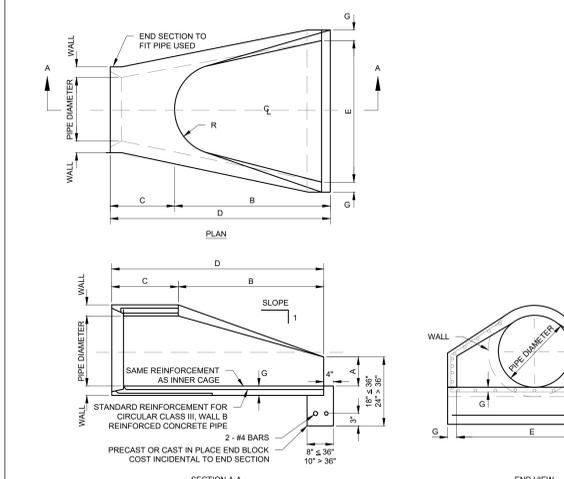
- DO NOT INSTALL INLET PROTECTION TYPE "D" IN INLETS SHALLOWER THAN 30 INCHES, MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.
- TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3 INCHES OF THE GRATE.
- THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE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

INSTALLATION NOTES:

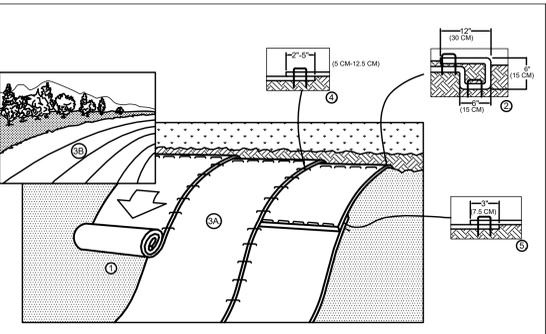
PIPE DIA. (IN)	APPROX QTY.	WALL (IN)	A (IN)	B (IN)	C (IN)	D (IN)	E (IN)	G (IN)	R (IN)	APPROX SLOPE
12"	530	2	4	24	4'-0" 7/8"	6'-0" 7/8"	24	2	1/4"	11.2.4
15"	740	2 1/4	6	27	3'-10"	6'-1"	30	2 1/4"	11.1.2.4	
18"	990	2 1/2	9	27	3'-10"	6'-1"	36	2 1/2"	12.1.2.4	
21"	1280	2 3/4	9	35	3'-8"	6'-1"	36	3-4"	2.34.13	12.4
24"	1620	3	9 1/2	3'-7 1/2"	25 1/2	6'-1 1/2"	4'-0"	3	14	12.5
27"	1930	3 1/4	10 1/2	4'-0"	25 1/2	6'-1 1/2"	4'-6"	3 1/4	14 1/2	12.4
30"	2190	3 1/2	12	4'-6"	19.3/4	6'-1.3/4"	5'-0"	3 1/2	15	12.5
33"	3200	3 3/4	13 1/2	4'-10 1/2"	39.1/4	6'-1.3/4"	5'-6"	3.3/4	17 1/2	12.5
36"	4100	4	15	5'-3"	34.3/4	6'-1.3/4"	6'-0"	4	20	12.5
42"	5380	4 1/2	21	5'-3"	35	6'-2"	6'-6"	4 1/2	22	12.5
48"	6550	5	24	6'-0"	26	6'-2"	7'-0"	5	22	12.5
54"	8240	5 1/2	27	6'-5"	35	6'-4"	7'-6"	5 1/2	24	12.0
60"	8730	6	35	5'-0"	39	6'-3"	8'-0"	5	*	11.9
66"	10710	6 1/2	30	6'-0"	27	6'-3"	8'-6"	5 1/2	*	11.7
72"	12520	7	36	6'-6"	21	6'-3"	9'-0"	6	*	11.8
78"	14770	7 1/2	36	7'-6"	21	9'-3"	9'-6"	6 1/2	*	11.8
84"	18160	8	36	7'-6 1/2"	21	9'-3 1/2"	10'-0"	6 1/2	*	11.6

- PRECAST CONCRETE FLARED END SECTIONS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF ASHOTO M-170 CLASS 3, WALL B REINFORCED CONCRETE PIPE.
- PRECAST CONCRETE FLARED END SECTIONS FOR PIPE DIAMETER REQUIRED SHALL BE AS INDICATED ON DETAIL PLAN FOR EACH INDIVIDUAL INSTALLATION.
- THIS ITEM SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR PRECAST CONCRETE FLARED END SECTION OF THE DIAMETER SPECIFIED WHICH PRICE INCLUDES PROVIDING AND INSTALLATION OF EACH END SECTION SPECIFIED.
- GRATES SHALL BE PROVIDED FOR ALL PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18" IN DIAMETER OR GREATER.

SILT FENCE

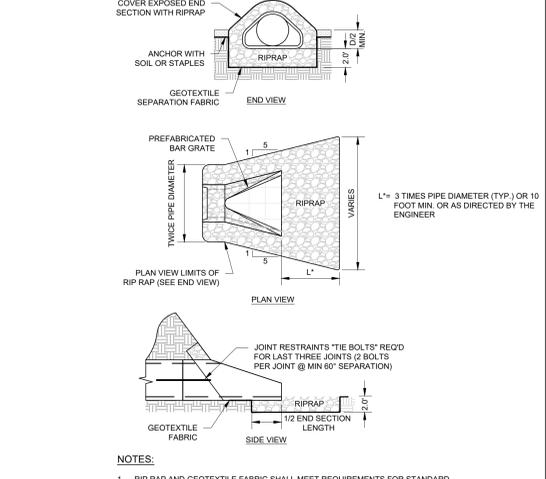


PRECAST FLARED END SECTIONS

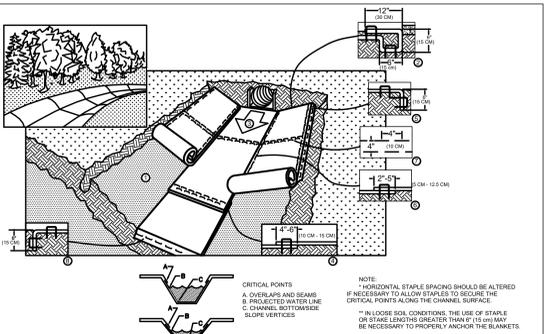


- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELLULOSE-BASED SEED, CELLULOSE-BASED SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30CM) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERNS GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON BLANKET TYPE.
- CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE BLANKET WIDTH.

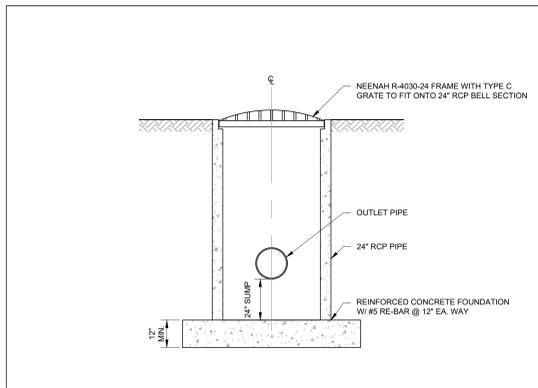
EROSION MATTING - SLOPE INSTALLATION



RIP RAP AT END SECTIONS

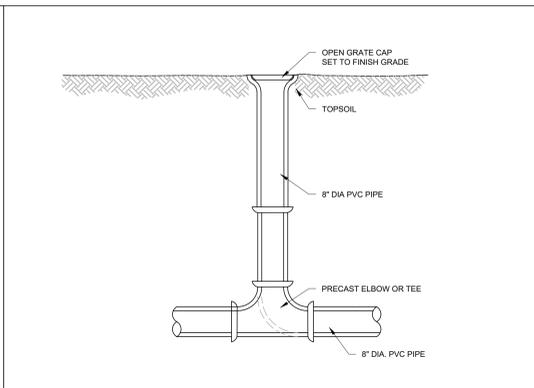


- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELLULOSE-BASED SEED, CELLULOSE-BASED SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING AND APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) ACROSS THE WIDTH OF THE BLANKET.
- ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERNS GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4" - 6" (10 CM - 15 CM) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (



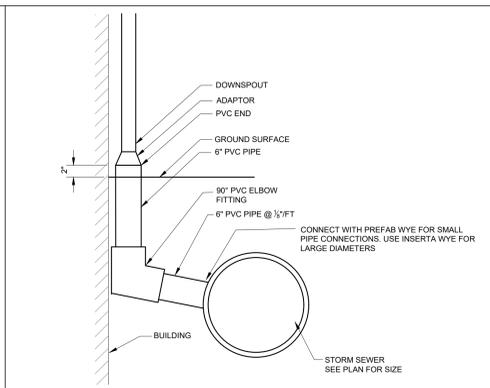
YARD INLET

8/10 01/21



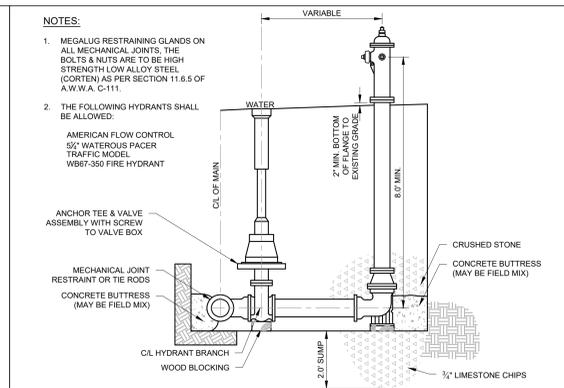
YARD DRAIN

8/08 11/01/4



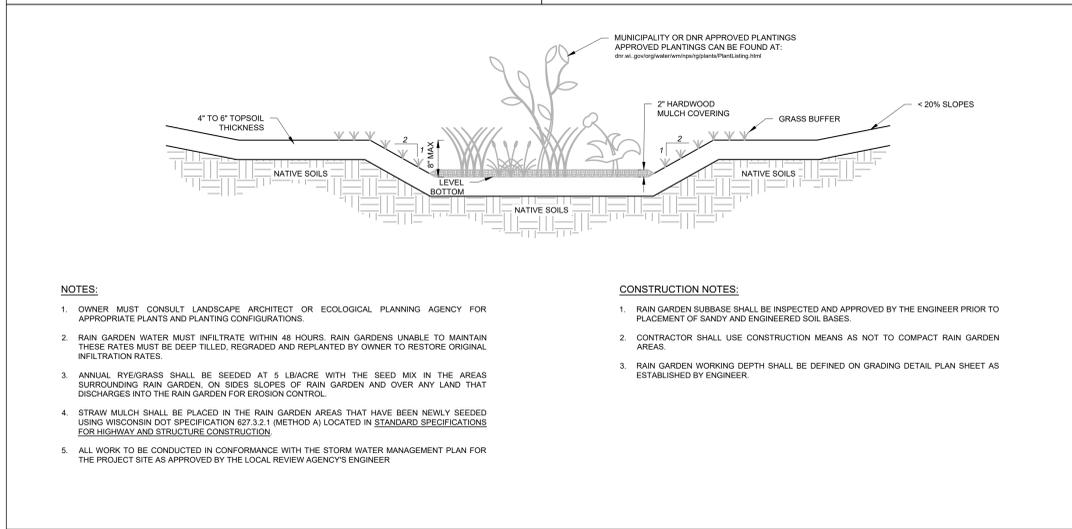
DOWNSPOUT DRAIN BUILDING CONNECTION

7/20/10



FIRE HYDRANT

8/01 10/10/11



RAIN GARDEN

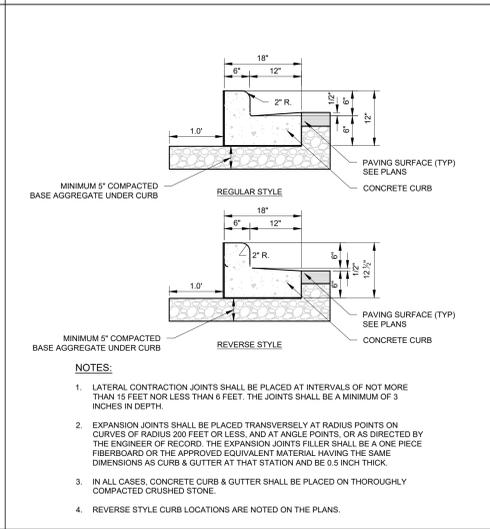
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NOTES:

- OWNER MUST CONSULT LANDSCAPE ARCHITECT OR ECOLOGICAL PLANNING AGENCY FOR APPROPRIATE PLANTS AND PLANTING CONFIGURATIONS.
- RAIN GARDEN WATER MUST INFILTRATE WITHIN 48 HOURS. RAIN GARDENS UNABLE TO MAINTAIN THESE RATES MUST BE DEEP TILLED, REGRADED AND REPLANTED BY OWNER TO RESTORE ORIGINAL INFILTRATION RATES.
- ANNUAL RYEGRASS SHALL BE SEED AT 5 LBS/ACRE WITH THE SEED MIX IN THE AREAS SURROUNDING RAIN GARDEN ON SIDES SLOPES OF RAIN GARDEN AND OVER ANY LAND THAT DISCHARGES INTO THE RAIN GARDEN FOR EROSION CONTROL.
- STRAW MULCH SHALL BE PLACED IN THE RAIN GARDEN AREAS THAT HAVE BEEN NEWLY SEEDDED USING WISCONSIN DOT SPECIFICATION 627.3.2.1 (METHOD A) LOCATED IN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- ALL WORK TO BE CONDUCTED IN CONFORMANCE WITH THE STORM WATER MANAGEMENT PLAN FOR THE PROJECT SITE AS APPROVED BY THE LOCAL REVIEW AGENCY'S ENGINEER.

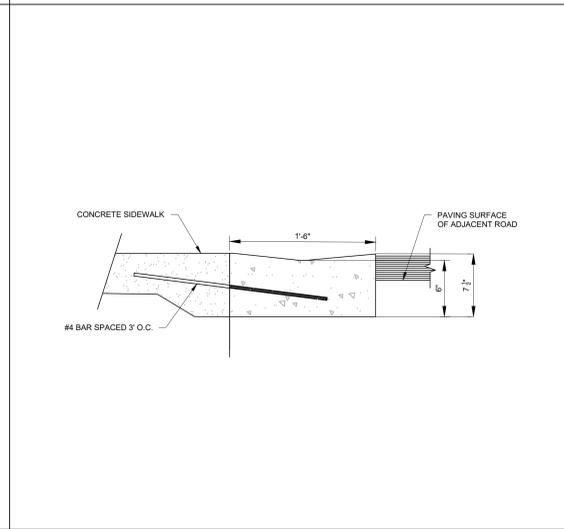
CONSTRUCTION NOTES:

- RAIN GARDEN SUBBASE SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO PLACEMENT OF SANDY AND ENGINEERED SOIL BASES.
- CONTRACTOR WORKING UNDER PROTECTION MEANS AS NOT TO COMPACT RAIN GARDEN AREAS.
- RAIN GARDEN WORKING DEPTH SHALL BE DEFINED ON GRADING DETAIL PLAN SHEET AS ESTABLISHED BY ENGINEER.



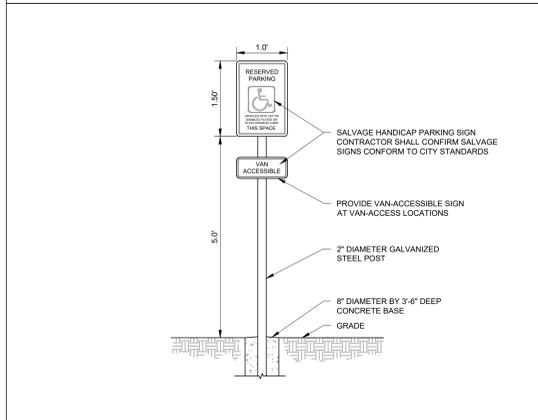
18" VERTICAL FACE CURB

8/20/21 10/27/21



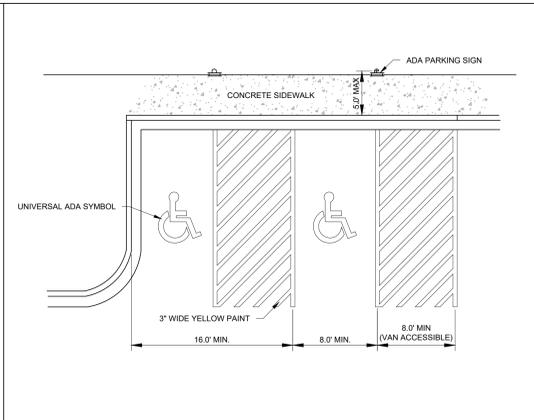
18" CURB WITH VALLEY GUTTER

8/20 2/20/21



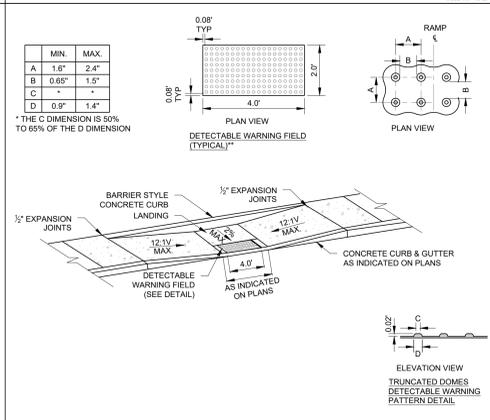
ADA SIGN

8/08 10/11/11



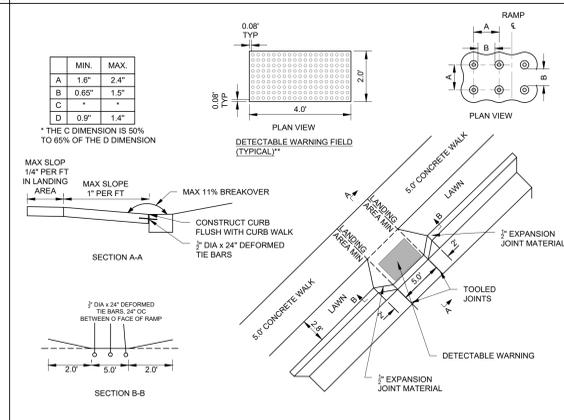
ADA PARKING STRIPING

8/11 2/20/13



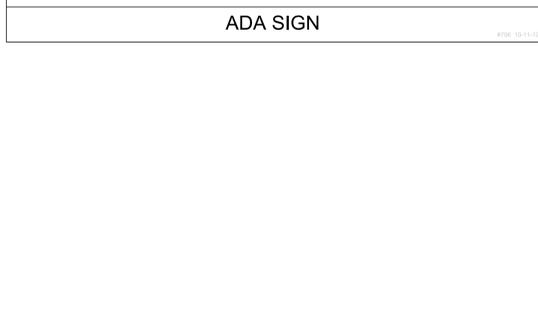
TYPICAL ACCESSIBLE RAMP - SPLIT

8/01 11/01/13



TYPICAL ACCESSIBLE RAMP- TYPE 3

8/03 11/01/11

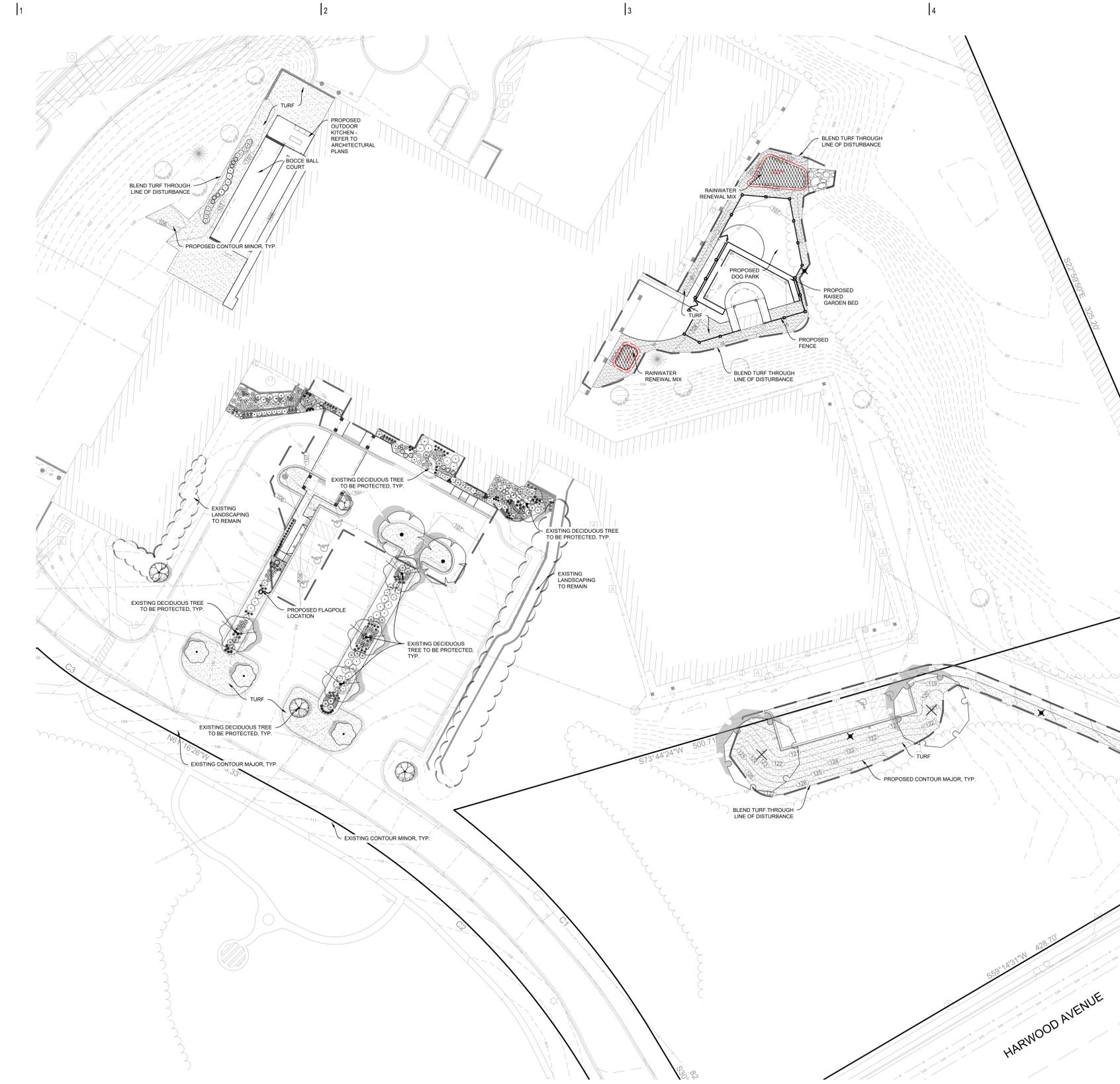


TAPER CURB HEAD

8/03 10/11/11

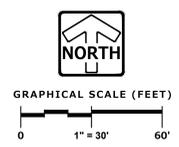
NOTES:

- CONTRACTION JOINTS SHALL BE PLACED EVERY 10 FEET
- EXPANSION JOINTS (3/4\"/>

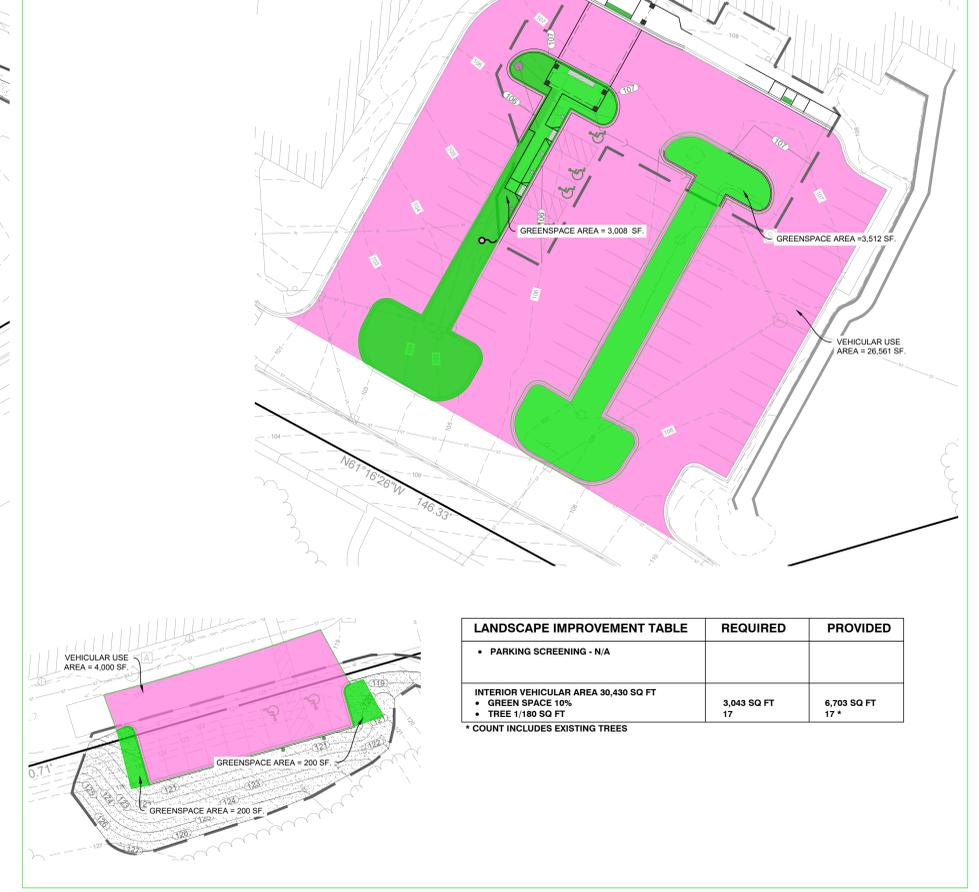


**PLANT SCHEDULE**

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
<b>TREES</b>					
AFM	2	Acer x freemanii 'Marmo'	Marmo Freeman Maple	2.5' Cal.	60' T x 35' W
UAV	2	Ulmus americana 'Valley Forge'	Valley Forge Elm	2.5' Cal.	80' T x 60' W
<b>ORNAMENTAL TREES</b>					
HT	2	Heptacodium miconioides 'SMNHMF'	Temple of Bloom® Seven Son Flower	5' Ht.	20' T x 10' W
MOS	3	Malus x 'Shotzlam'	Malus x 'Shotzlam'	1.5' Cal.	25' T x 20' W
<b>SHRUBS</b>					
CA	10	Cornus sanguinea 'Cato'	Arctic Sun® Bloodtwig Dogwood	2 gal.	3' T x 3' W
CW2	11	Cotinus coggygria 'Lilal'	Lila Dwarf Smoke Tree	2 gal.	4' T x 4' W
HU	14	Hydrangea paniculata 'SMHPCW'	Strawberry Shake™ Panicle Hydrangea	2 gal.	5' T x 4' W
HA	10	Hydrangea paniculata 'SMHPS'	Razzleberry™ Hydrangea	2 gal.	3' T x 3' W
RT2	13	Rhus typhina 'Bailtiger'	Tiger Eyes Cutleaf Staghorn Sumac	2 gal.	5' T x 5' W
RT	6	Rosa rugosa 'Theresa Bugnet'	Theresa Bugnet Rose	2 gal.	7' T x 5' W
RS	6	Rosa x 'Maidswelton'	Sweet Drift® Groundcover Rose	2 gal.	2' T x 3' W
RK	7	Rosa x 'KORivros'	Sunbells® Savannah™ Hybrid Tea Rose	2 gal.	4' T x 3' W
RP	3	Rosa x 'Meithei'	Sweet Spirit™ Rose	2 gal.	4' T x 3' W
SMP	19	Syringa meyeri 'Palibin'	Dwarf Korean Lilac	2 gal.	5' T x 5' W
SB4	5	Syringa x 'SMSJBP7'	Bloomerang Dwarf Purple Lilac	2 gal.	4' T x 3' W
WS2	5	Weigela florida 'Bokrasopin'	Sonic Bloom® Pink Weigela	2 gal.	5' T x 5' W
<b>EVERGREEN SHRUBS</b>					
JB	26	Juniperus chinensis 'Blue Vase'	Blue Vase Juniper	7 gal.	4' T x 3' W
JB2	7	Juniperus horizontalis 'Blue Forest'	Blue Forest Creeping Juniper	7 gal.	1' T x 4' W
PPS	17	Picea abies 'Pumila'	Pumila Spruce	7 gal.	3' T x 4' W
PS	8	Picea pungens 'Sester Dwarf'	Sester Dwarf Colorado Spruce	7 gal.	6' T x 4' W
TA	18	Thuja occidentalis 'Anna Van Vliet'	Anna's Magic Ball® Arborvitae	7 gal.	2' T x 3' W
TT	6	Thuja occidentalis 'Flips Magic Moment'	Flips Magic Moment Arborvitae	7 gal.	6' T x 3' W
<b>ORNAMENTAL GRASSES</b>					
AR	47	Andropogon gerardii 'Red October'	Red October Big Bluestem	1 gal.	4' T x 2' W
CO2	31	Calamagrostis x acutiflora 'Overdam'	Overdam Feather Reed Grass	1 gal.	2' T x 2' W
MI	10	Miscanthus sinensis 'Fire Dragon'	Fire Dragon Eulalia Grass	1 gal.	6' T x 4' W
ML	23	Miscanthus sinensis 'Little Kitten'	Little Kitten Eulalia Grass	1 gal.	24' T x 15' W
SS	52	Schizachyrium scoparium 'Standing Ovator'	Standing Ovator Little Bluestem	1 gal.	4' T x 2' W
<b>PERENNIALS</b>					
AT3	20	Allium x 'Millenium'	Millenium Ornamental Onion	4.5' Cont.	10" o.c. 15' T x 12' W
EL2	12	Echinacea x 'Balsomemym' TM	Sombrero Lemon Yellow Improved Coneflower	4.5' Cont.	24" o.c. 28' T x 28' W
EE	27	Echinacea x 'PAS702917'	PowWow® Wild Berry Coneflower	4.5' Cont.	14" o.c. 22' T x 15' W
EG	10	Eupatorium maculatum 'Gateway'	Gateway Joe-Pye Weed	4.5' Cont.	32" o.c. 48' T x 36' W
NK	42	Nepeta x 'fassenii' 'Cats Meow'	Cats Meow Catmint	4.5' Cont.	20" o.c. 18' T x 30' W
PC	39	Phlox subulata 'Candy Stripe'	Candy Stripe Creeping Phlox	4.5' Cont.	15" o.c. 6' T x 18' W
SA4	23	Sedum x 'Autumn Fire'	Autumn Fire Sedum	4.5' Cont.	18" o.c. 24' T x 18' W
SR	20	Solidago rugosa 'Fireworks'	Fireworks Winkleleaf Goldenrod	4.5' Cont.	22" o.c. 36' T x 24' W
SM2	19	Stachys monieri 'Hummelo'	Common Betony	4.5' Cont.	10" o.c. 20' T x 12' W
<b>AGRECOL MIXES</b>					
SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	SPACING	REMARKS
[Symbol]	626 sf	AGRECOL RAINWATER RENEWAL	AGRECOL RAINWATER RENEWAL SEED MIX		
<b>TURF</b>					
[Symbol]	16,244 sf	Turf Hydroseed	Drought Tolerant Fescue Blend		



**GREENSPACE EXHIBIT**



LANDSCAPE IMPROVEMENT TABLE	REQUIRED	PROVIDED
• PARKING SCREENING - N/A		
INTERIOR VEHICULAR AREA 30,430 SQ FT		
• GREEN SPACE 10%	3,043 SQ FT	6,703 SQ FT
• TREE 1/180 SQ FT	17	17 *

\* COUNT INCLUDES EXISTING TREES

**REFERENCE NOTES SCHEDULE**

SYMBOL	CODE	DESCRIPTION
[Symbol]	1	ARTIFICIAL TURF
[Symbol]	2	SNOW STORAGE AREAS
[Symbol]	3	UNILOCK U-CARA WALL
[Symbol]	4	COUNTRY MATERIALS TRIBUTE WALL

DRAWN BY: APM

2024 PLANNING & DESIGN DELIVERED BY Pinnacle Engineering Group, Inc. 11/15/2023  
 2310 CANTONMENT BLVD., SUITE 200, MADISON, WISCONSIN 53718 608.242.8800  
 1575 MAIN STREET, SUITE 201, WATKINS, MICHIGAN 49783 616.444.8800  
 3111 SUPERIOR AVENUE, SUITE 1000, BOSTON 617.267.0000

**pro** PLUNKETT RAYSICH ARCHITECTS, LLP

**THE LUTHERAN HOME**  
**HARWOOD PLACE RENOVATION**  
 6220 Harwood Ave., Wauwatessa, WI 53093  
 Tax Ref ID Numbers: #0710264005 & #0710264004

REVISIONS:  
 DRB RESUBMITTAL  
 BID PACKAGE  
 DATE: 02-11-2025  
 JOB NO.: 230158-01  
 SHEET NO.:

NOT FOR CONSTRUCTION  
 2024 PLUNKETT RAYSICH ARCHITECTS, LLP  
 LANDSCAPE OVERVIEW  
 L100



GENERAL PLANTING NOTES

- THE LAYOUT OF ALL PLANTING BEDS AND INDIVIDUAL TREES AND SHRUBS SHALL BE STAKED BY THE CONTRACTOR IN ADVANCE OF INSTALLATION. FLAGGING, STAKES, OR PAINT MAY BE USED TO DELINEATE LOCATIONS AS SCALED FROM THE PLANS. AN APPROVED REPRESENTATIVE WILL REVIEW THESE LOCATIONS WITH THE CONTRACTOR AND MAKE MINOR ADJUSTMENTS AS NECESSARY. BED LAYOUT SHALL ALSO INCLUDE PERENNIAL GROUPINGS BY SPECIES.
- THE CONTRACTOR IS RESPONSIBLE FOR INDEPENDENTLY DETERMINING THE PLANT MATERIAL QUANTITIES REQUIRED BY THE LANDSCAPE PLANS. REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
- NO PLANT MATERIAL OR PLANT SIZE SUBSTITUTIONS WILL BE ACCEPTED WITHOUT APPROVAL BY THE LANDSCAPE ARCHITECT. ANY CHANGES SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT IN WRITING PRIOR TO INSTALLATION.
- ALL BNB STOCK SHALL BE NURSERY GROWN IN A CLAY LOAM SOIL FOR A MINIMUM OF THREE GROWING SEASONS WITHIN 200 MILES OF PROJECT LOCATION, IN A ZONE COMPATIBLE WITH USDA HARDINESS ZONE 5A. SEED SHALL BE PROVIDED FROM A NURSERY (WITHIN 200 MILES) WITH A SIMILAR PLANT HARDINESS ZONE AS PROJECT LOCATION. EXISTING SOIL SHALL BE AMENDED PER SOIL ANALYSIS REPORT TO ENSURE A PROPER GROWING MEDIUM IS ACHIEVED.
- ALL PLANT MATERIAL SHALL COMPLY WITH STANDARDS DESCRIBED IN AMERICAN STANDARD OF NURSERY STOCK - Z60.1 ANSI. LANDSCAPE ARCHITECT OR OWNERS AUTHORIZED REPRESENTATIVE RESERVES THE RIGHT TO INSPECT AND POTENTIALLY REJECT ANY PLANT MATERIAL DEEMED TO NOT MEET THE REQUIRED STANDARDS.
- ALL STOCK SHALL BE FREE OF DISEASES AND HARMFUL INSECTS, DAMAGE, DISORDERS AND DEFORMITIES.
- TREES SHALL HAVE SINGLE, STRAIGHT TRUNKS AND WELL BALANCED BRANCH SYSTEMS. MULTI-STEM TREES SHALL HAVE 3-4 STRAIGHT TRUNKS AND WELL BALANCED BRANCH SYSTEMS. HEIGHT-TO-CALIPER RATIOS SHALL BE CONSISTENT WITH THE LATEST EDITION OF ANSI Z60.1.
- ROOT SYSTEMS SHALL BE LARGE ENOUGH TO ALLOW FOR FULL RECOVERY OF THE TREE, AND SHALL CONFORM TO STANDARDS AS THEY APPEAR IN THE MOST CURRENT REVISION OF THE AMERICAN ASSOCIATION OF NURSERYMEN'S AMERICAN STANDARD OF NURSERY STOCK ANSI Z60.1.
- BNB TREES SHALL BE DUG WITH A BALL OF SOIL, NOT SOFT BALLED OR POTTED AND SHALL BE FIRM IN THEIR ROOTBALL. ROOT BALL SHALL BE WRAPPED (WITH BIODEGRADABLE MATERIAL). THE TREE ROOT FLARE, OR COLLAR, SHALL BE AT OR WITHIN THE TOP THREE INCHES OF GRADE.
- ALL SPRING TREES MUST BE FRESHLY DUG IN THE MOST RECENT SPRING.
- ALL AUTUMN TREES MUST BE FRESHLY DUG IN THE MOST RECENT AUTUMN.
- TREES SHALL BE ALIVE, HEALTHY AND APPROPRIATELY MOIST, AT TIME OF DELIVERY. TREES SHALL BE SUBJECT TO INSPECTION FOR CONFORMITY TO SPECIFICATION REQUIREMENTS AND APPROVAL BY THE LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE. THE LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY TREES THAT DO NOT MEET THE SPECIFICATIONS OR THAT HAVE BEEN DAMAGED DURING SHIPMENT. THE LANDSCAPE INSTALLER MUST RECEIVE APPROVAL FROM LANDSCAPE ARCHITECT FOR ANY SUBSTITUTIONS OR ALTERATIONS.
- ALL PLANT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH PLANTING DETAILS.
- ALL PLANTING BEDS SHALL HAVE A MINIMUM 10" DEPTH OF PREPARED SOIL. WITH APPROVAL, EXISTING SOIL MAY BE UTILIZED PROVIDED THE PROPER SOIL AMENDMENTS ARE TILLED THOROUGHLY INTO THE TOP 10" OF SOIL. REFER TO SOIL PLACEMENT NOTES.
- WHILE PLANTING TREES AND SHRUBS, BACKFILL 2/3 OF PLANTING HOLE AND WATER TREE THOROUGHLY BEFORE INSTALLING THE REMAINDER OF SOIL MIXTURE. AFTER ALL SOIL HAS BEEN PLACED INTO THE PLANTING HOLE WATER THOROUGHLY AGAIN.
- THE CONTRACTOR MUST LABEL ALL TREES WITH THE COMMON AND BOTANICAL NAMES PRIOR TO FINAL INSPECTION.
- ALL PLANTING BEDS SHALL BE MULCHED WITH 3" DEEP SHREDDED HARDWOOD MULCH, AND ALL TREES PLANTED IN TURF AREAS SHALL RECEIVE A 3" DEEP SHREDDED HARDWOOD MULCHED RING AS SHOWN IN PLANTING DETAILS.
- ALL PLANTING BEDS AND TREE RINGS SHALL HAVE A 4" DEEP TRENCHED BED EDGE CREATED BY EITHER A FLAT LANDSCAPE SPADE OR MECHANICAL EDGER. BED EDGES ARE TO BE CUT CLEAN AND SMOOTH AS SHOWN ON LANDSCAPE PLANS WITH A CLEAN DEFINITION BETWEEN TURF AND PLANTING AREAS.
- ALL TURF SEED AREAS SHALL RECEIVE A MINIMUM OF 6" DEPTH OF TOPSOIL. WITH APPROVAL, EXISTING SOIL MAY BE UTILIZED PROVIDED THE PROPER SOIL AMENDMENTS ARE TILLED THOROUGHLY INTO THE TOP 6" OF SOIL AS INDICATED IN THE SOIL PLACEMENT NOTES. REQUIRED AMENDMENTS SHALL BE DETERMINED BASED ON A SOIL ANALYSIS TO BE PERFORMED. ALL TOPSOIL AMENDMENT SHALL BE AGED WEED FREE MANURE OR CLASS 1 ORGANIC MATTER.
- FOR LAWN SEEDING, APPLY A STARTER FERTILIZER AND SEED UNIFORMLY AT THE RATE RECOMMENDED BY MANUFACTURER, AND PROVIDE A MULCH COVERING THAT IS SUITABLE TO PROMOTE SEED GERMINATION AND TURF ESTABLISHMENT. CONTRACTOR TO PROVIDE FERTILIZER, SEED, AND MULCH SPECIFICATIONS TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION. EROSION CONTROL MEASURES ARE TO BE INSTALLED IN THOSE AREAS REQUIRING STABILIZATION (SWALES, SLOPES EXCEEDING 1:3, AND THOSE LOCATIONS INDICATED IN CIVIL DRAWINGS).
- THE CONTRACTOR TO ENSURE A SMOOTH, UNIFORM QUALITY TURF IS ACHIEVED WITH NO BARE SPOTS LARGER THAN 6" X 6". ANY BARE SPOTS LARGER THAN 6" X 6" AT THE END OF ESTABLISHMENT PERIOD SHALL BE RESEED AT THE CONTRACTORS EXPENSE TO OBTAIN A DENSE, UNIFORM LAWN.
- ALL FINISH GRADING AND LAWN AREAS TO BE INSTALLED BY LANDSCAPE CONTRACTOR.
- ALL DISTURBED AREAS WITHIN THE PROJECT SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
- ALL DISTURBED AREAS OUTSIDE THE LIMITS OF WORK SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, INCLUDING ANY IRRIGATION LINES, PRIOR TO DIGGING. CONSULT DIGGERS HOTLINE.
- TREES SHALL BE INSTALLED NO CLOSER THAN:
  - 10 FEET FROM ANY FIRE HYDRANT
  - 7 FEET FROM STORM SEWER, SANITARY SEWER LATERALS, AND WATER SERVICE
- THE CONTRACTOR SHALL ENSURE THAT SOIL CONDITIONS AND COMPACTION ARE ADEQUATE TO ALLOW FOR PROPER DRAINAGE AROUND THE CONSTRUCTION SITE. UNDESIRABLE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING OF WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE PROPER SURFACE AND SUBSURFACE DRAINAGE IN ALL AREAS
- THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, FEES, AND LICENSES NECESSARY FOR THE INSTALLATION OF THIS PLAN.
- THE CONTRACTOR IS TO REVIEW ALL SITE ENGINEERING DOCUMENTS PRIOR TO INSTALLATION. ANY CONFLICTS MUST BE REPORTED TO THE LANDSCAPE ARCHITECT. THESE LANDSCAPE DRAWINGS ARE FOR THE INSTALLATION OF PLANT MATERIALS ONLY UNLESS OTHERWISE STATED.
- THE CONTRACTOR SHALL PROVIDE WATERING AND MAINTENANCE SERVICES FOR A PERIOD OF 60 DAYS TO ENSURE VEGETATIVE ESTABLISHMENT. UPON COMPLETION OF THE PROJECT, CONTRACTOR SHALL SUPPLY THE OWNER IN WRITING WITH ONGOING WATERING AND MAINTENANCE INSTRUCTIONS.

- PLANT MATERIALS SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM TIME OF OWNER ACCEPTANCE. ONLY ONE REPLACEMENT PER PLANT WILL BE REQUIRED DURING THE WARRANTY PERIOD EXCEPT IN THE EVENT OF FAILURE TO COMPLY WITH THE SPECIFIED REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE TO CONDUCT A FINAL WALK THROUGH WITH THE LANDSCAPE ARCHITECT AND OR OWNERS REPRESENTATIVE TO ANSWER QUESTIONS, PROVIDE INSTRUCTIONS, AND ENSURE THAT PROJECT REQUIREMENTS HAVE BEEN MET.

SOIL PLACEMENT NOTES

- LOOSEN SUBGRADE TO A MINIMUM DEPTH INDICATED IN PLANTING NOTES USING A CULT-MULCHER OR SIMILAR EQUIPMENT, AND REMOVE STONES MEASURING OVER 1-1/2 INCHES IN ANY DIMENSION, STICKS, RUBBISH AND OTHER EXTRANEIOUS MATTER. AREAS ADJACENT TO WALKS AND PAVEMENT SHALL BE FREE OF EXCESS STONE AND PAVING MATERIALS SO AS TO PROVIDE AN UNINTERRUPTED CROSS SECTION OF SOIL. INTERNAL PARKING ISLANDS SHALL BE LOOSENEED TO A DEPTH OF 30".
- THOROUGHLY BLEND PLANTING SOIL MIX FOR PLANTING BED AREAS. (1 PART EXISTING SOIL, 1 PART TOPSOIL, 1 PART ORGANIC SOIL AMENDMENT, 2.9 POUNDS PER CUBIC YARD OF 4-4-4 ANALYSIS SLOW-RELEASE FERTILIZER)
- TREE AND SHRUB HOLES SHALL BE FILLED WITH A PREPARED PLANTING MIXTURE OF 1 PART TOPSOIL, 2 PARTS PLANTING SOIL MIX.
- SPREAD SOIL AND SOIL AMENDMENTS TO DEPTH INDICATED ON DRAWINGS, BUT NOT LESS THAN REQUIRED TO MEET FINISH GRADES AFTER NATURAL SETTLEMENT. FINISH GRADE OF PLANTING BEDS SHALL BE 3" BELOW ALL ADJACENT SURFACES. FINISH GRADE OF TURF SEEDING AREAS SHALL BE 1" BELOW ALL ADJACENT HARD SURFACES, WALKS, AND CURBS.)
- PLACE APPROXIMATELY 1/2 OF TOTAL AMOUNT OF SOIL REQUIRED. WORK INTO TOP OF LOOSENEED SUBGRADE TO CREATE A TRANSITION LAYER. THEN PLACE REMAINDER OF THE SOIL. SOIL TRANSITION LAYER SHALL BE TILLED TO A MINIMUM DEPTH OF 6" BELOW THE DEPTH OF NEWLY PLACED SOIL. PARKING LOT ISLANDS SHALL BE CROWNED TO A HEIGHT OF 6" TO PROVIDE PROPER DRAINAGE UNLESS OTHERWISE NOTED.
- DO NOT SPREAD IF PLANTING SOIL OR SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET.
- FINISH GRADING: GRADE SOIL TO A SMOOTH, UNIFORM SURFACE PLANE WITH A LOOSE, UNIFORMLY FINE TEXTURE.
- ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES.
- RESTORE PLANTING BEDS IF ERODED OR OTHERWISE DISTURBED AFTER FINISH GRADING AND BEFORE PLANTING.

NATIVE SEEDING & PLUG PLANTINGS

ESTABLISHMENT OF A VIABLE VEGETATION COMMUNITY WILL BE COMPLETED BY HAND-BROADCASTING OF PRE-DESIGNED SEED MIXES AND PLANTING OF PERENNIALS TO CREATE A DYNAMIC PLANTING.

PRIOR TO SEEDING/PLUG PLANTING:

- ALL WEEDS AND EXISTING VEGETATION SHALL BE REMOVED. EXISTING VEGETATION SHALL BE TREATED WITH GLYPHOSATE OR SIMILAR HERBICIDE BY A LICENSED PROFESSIONAL. TREATMENT SHALL OCCUR A MINIMUM OF 10 DAYS PRIOR TO SEEDING/PLANTING. VEGETATION STILL ALIVE AFTER INITIAL HERBICIDE TREATMENT SHALL BE TREATED A SECOND TIME PRIOR TO TILLING INTO THE SOIL. TREATED VEGETATION SHALL BE TILLED INTO THE SOIL NO EARLIER THAN 1 DAY PRIOR TO SEEDING.
- PREPARATION OF SOIL PRIOR TO SEEDING.
  - REFER TO CIVIL PLANS FOR SOIL MIXTURE.
  - ALL FOREIGN MATERIALS LARGER THAN 1-INCH SHALL BE REMOVED FROM THE SOIL PRIOR TO SEEDING OR PLANTING.
  - AREA SHOULD BE FREE FROM UNSIGHTLY VARIATIONS, RIDGES, AND DEPRESSIONS.
  - AVOID DRIVING OVER THE SPECIFIED AREA WITH MACHINERY.

SPECIFICATIONS FOR HAND BROADCASTING:

SEEDING SHALL BE CONDUCTED IN LATE FALL (SEPTEMBER 1- SOIL FREEZE) SO THAT SEEDS MAY LIE DORMANT DURING THE WINTER, ALLOWING FOR STRATIFICATION, OR SPRING (MARCH 1-JUNE 1) TO ALLOW A COMPLETE GROWING SEASON TO BECOME ESTABLISHED.

A. COVER CROP

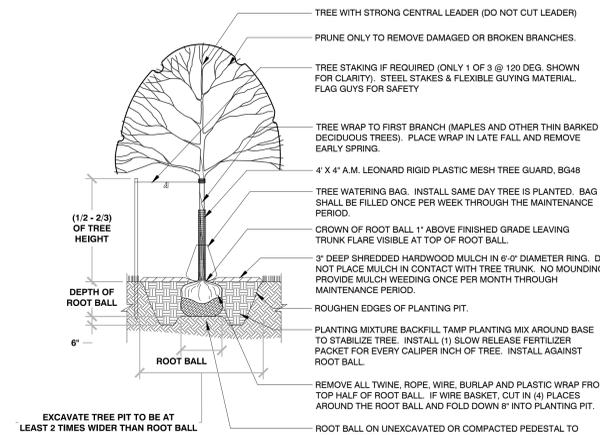
- ANNUAL RYE SHALL BE SPREAD AT A DENSITY OF 20 POUNDS PER ACRE DURING THE PLANTING OR SEEDING OF THE NATIVE PLANT SPECIES TO STABILIZE THE SOIL AND REDUCE THE GROWTH OF UNWANTED VEGETATION. THIS ANNUAL GRASS GROWS RAPIDLY WITHOUT COMPETING WITH THE WILDFLOWERS AND GRASSES THAT ARE PLANTED IN THE TARGET AREAS.
  - WINTER WHEAT OR PERENNIAL RYE SHALL NOT BE USED AS A COVER CROP. THESE GRASSES MAY OUT COMPETE PRAIRIE SEEDLINGS, LEADING TO A REDUCTION IN THE SUCCESS OF THE PLANTINGS.
- B. SEED MIX:
- MIX ALL NATIVE SEED WITH VERMICULITE ACCORDING TO AGRECOL RECOMMENDATIONS AND INSTALLATION GUIDELINES.
  - BROADCAST HALF THE SEED OVER THE ENTIRE SITE OR TARGET AREA.
  - BROADCAST THE OTHER HALF OF SEED PERPENDICULAR TO THE DIRECTION THAT THE FIRST HALF OF THE SEED WAS BROADCAST.
  - COVER SEED WITH 1/4-INCH TO 1/2-INCH OF SOIL (USE ANY EXCESS SOIL FROM THE SITE) WITH RAKE OR DRAG.
  - ROLL SITE TO ENSURE FIRM SEED-TO-GROUND CONTACT.
  - KEEP SEED CONSTANTLY WET THROUGH GERMINATION PERIOD. GENERALLY 3 WEEKS.

ALL SEEDING SHALL BE COVERED WITH 1-INCH OF CLEAN, NON-INVASIVE STRAW (NO MARSH HAY, OR REED CANARY GRASS) WITHOUT SEEDS, WITHIN SEVEN DAYS. WHEAT, RYE, OATS, OR BARLEY ARE ACCEPTABLE FORMS OF STRAW. THOSE AREAS OF SLOPES STEEPER THAN 8:1 (EIGHT FEET HORIZONTAL TO ONE FOOT VERTICAL) SHALL BE PLANTED NO LATER THAN OCTOBER 1 AND STAKED WITH AN EROSION CONTROL BLANKET TO PREVENT EROSION.

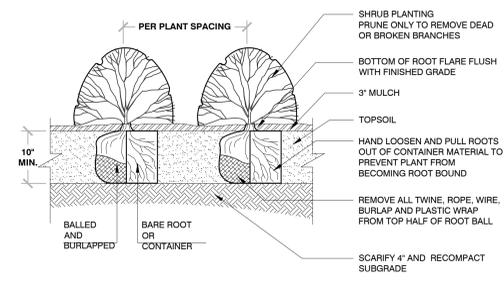
NATIVE PLANTINGS:

WEED SUPPRESSION MEASURES:

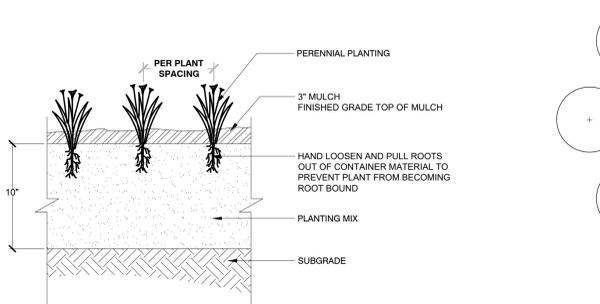
- 1st YEAR** - PERFORM SPOT SPRAY WITH HERBICIDE TO SUPPRESS WEEDS. THIS SHOULD OCCUR APPROXIMATELY EVERY MONTH OF THE GROWING SEASON AFTER NATIVE PLANTINGS HAVE BEEN ROUGH GRADED.
- 2nd YEAR** - IN MAY/JUNE MOW NATIVE PLANTINGS AT 6" HEIGHT TO SUPPRESS THE WEEDS. PERFORM SPOT SPRAY WITH HERBICIDE TO SUPPRESS WEEDS. HAVE PROFESSIONAL ASSESS PLANTINGS. REPEAT MOWING NATIVE PLANTINGS AND SPOT-SPRAY IN EARLY JULY.
- 3rd YEAR** - IN MAY/JUNE MOW NATIVE PLANTINGS AT 8" HEIGHT TO SUPPRESS THE WEEDS. PERFORM SPOT SPRAY WITH HERBICIDE TO SUPPRESS WEEDS.
- 4th YEAR** - IN MAY PERFORM A PRESCRIBED BURN. IN JUNE HAVE A QUALIFIED PROFESSIONAL ASSESS PLANTINGS. IF A PRESCRIBED BURN CAN NOT BE UTILIZED, NATIVE PLANTINGS SHALL BE CUT TO THE GROUND AND ALL CUT MATERIAL SHALL BE REMOVED AND DISPOSED OF OFF SITE.



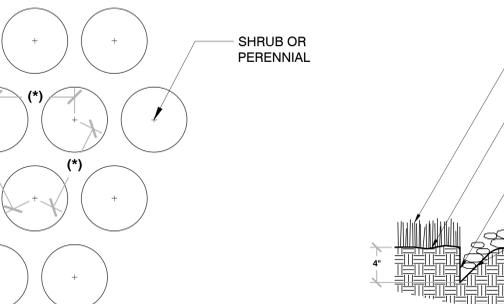
1 TREE PLANTING 1/4" = 1'-0" 3293-01



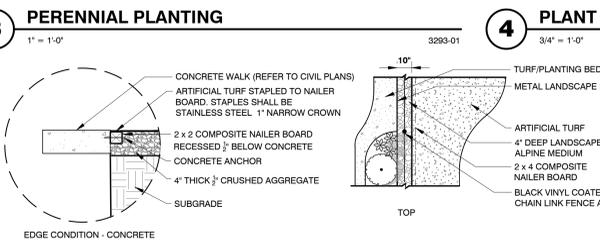
2 SHRUB PLANTING 1/2\"/>



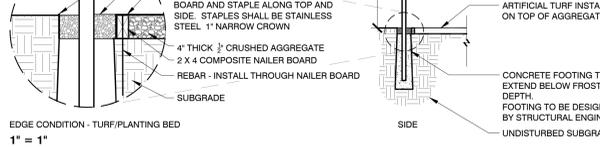
3 PERENNIAL PLANTING 1\"/>



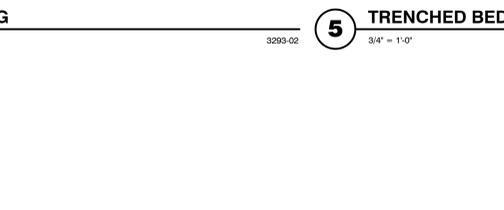
4 PLANT SPACING 3/4\"/>



5 TRENCHED BED EDGE 3/4\"/>



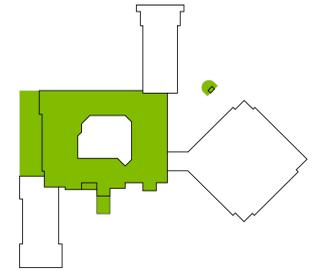
6 DOG RUN DETAIL 1/4\"/>



7 BOCCIE BALL COURT 3/4\"/>



TRUE NORTH  
PLAN NORTH  
FIRST FLOOR OVERALL PLAN  
1/16" = 1'-0"



KEY PLAN

NOT FOR CONSTRUCTION  
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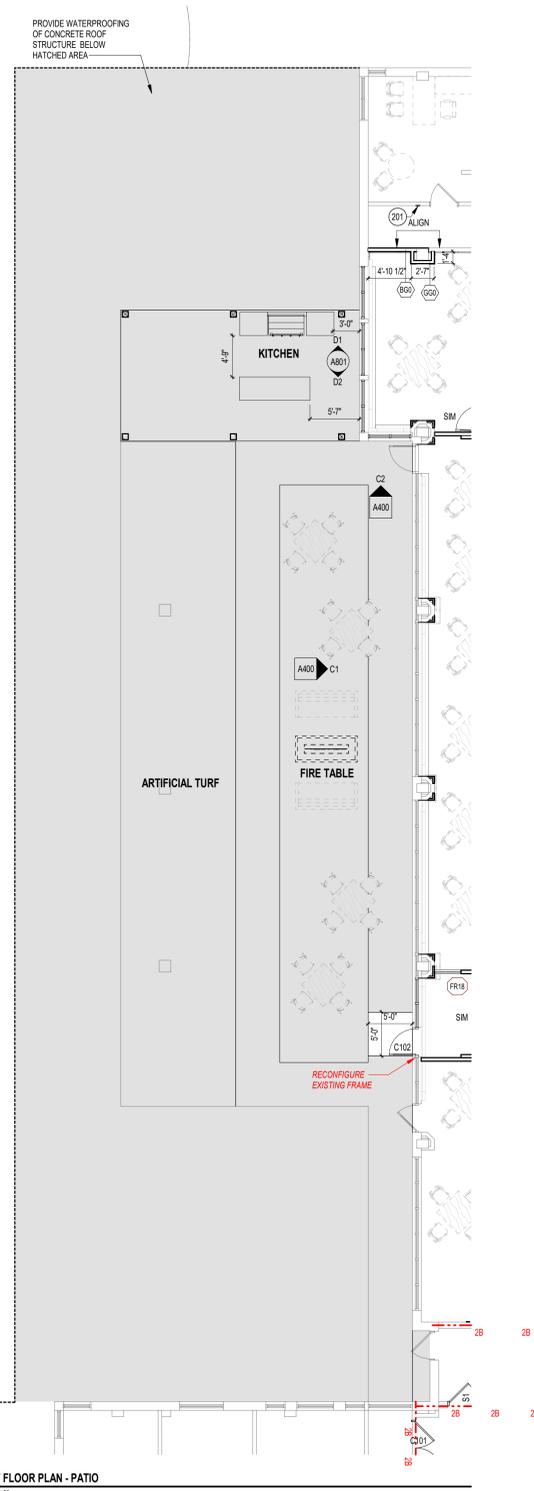
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DATE: 02-11-25  
JOB NO: 230156-01  
SHEET NO:

A200

THE LUTHERAN HOME  
HARWOOD PLACE RENOVATION

8220 Harwood Ave., Wauwatosa, WI 53213

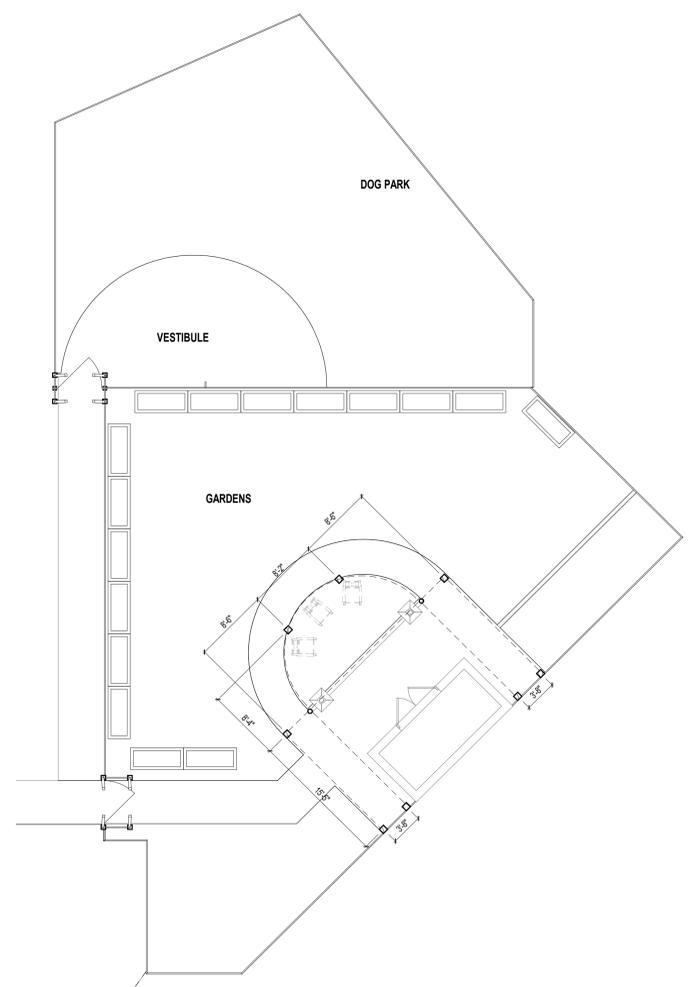
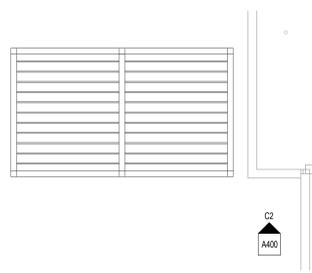
OVERALL FLOOR PLAN



**B2 ROOF PLAN - PATIO**  
1/8" = 1'-0"

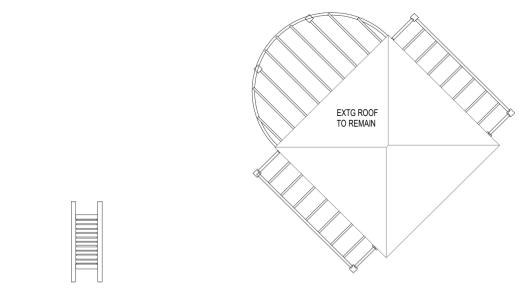
**D1 FIRST FLOOR PLAN - PATIO**  
1/8" = 1'-0"

FLOOR PLAN NOTES	
MARK	DESCRIPTION
201	PATCH GYPSUM BOARD TO MATCH



**C4 FIRST FLOOR PLAN - GARDENS**  
1/8" = 1'-0"

**D4 FIRST FLOOR REFLECTED CEILING PLAN - GARDENS**  
1/8" = 1'-0"



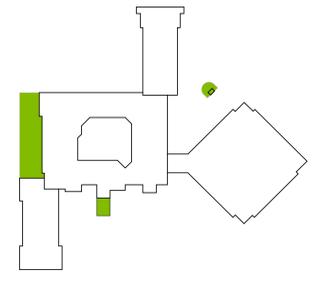
**E4 ROOF PLAN - GARDENS**  
1/8" = 1'-0"

FLOOR PLAN SYMBOLS LEGEND			
	EXISTING WALLS TO REMAIN		NEW WALL/PARTITION
	EXISTING DOOR TO REMAIN		NEW DOOR
	SECTION REFERENCE		EXISTING DOOR RECEIVING NEW WORK - REFER TO DOOR SCHEDULE
	EXTERIOR ELEVATION		DETAIL REFERENCE
	INTERIOR ELEVATION		WINDOW TYPE
	FLOOR PLAN NOTE		WALL/PARTITION TYPE
	CONSTRUCTION LIMITS		FIRE EXTINGUISHERS: • FULLY RECESSED • SEM-RECESSED • SURFACE MOUNTED • BRACKET MOUNTED
	MATCHLINE		ONE HOUR RATED FIRE PARTITION
	TWO HOUR RATED FIRE BARRIER		FLOOR DRAIN - PITCH FLOOR TO DRAIN

- FLOOR PLAN GENERAL NOTES**
- AT MASONRY VENEER WALLS, DIMENSIONS ON FLOOR PLAN ARE BASED ON FACE OF FINISHED WALL TO FACE OF FINISHED WALL (NOMINAL).
  - AT NON-MASONRY VENEER WALLS, DIMENSIONS ON FLOOR PLAN ARE BASED ON EXTERIOR FACE OF SHEATHING TO EXTERIOR FACE OF SHEATHING.
  - VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE. PORTIONS OF EXISTING CONSTRUCTION MAY HAVE BEEN REMOVED BY OWNER.
  - PLUMBING FIXTURES ARE SHOWN FOR REFERENCE ONLY. REFER TO PLUMBING DRAWINGS FOR SPECIFIC FIXTURE TYPE AND SIZES.
  - MAINTAIN CONTINUOUS UTILITY SERVICE TO ALL SPACES IN THE BUILDING NOT AFFECTED BY THIS WORK. COORDINATE WITH OWNER ANY DISRUPTION IN SERVICES REQUIRED TO PERFORM WORK OR TO MODIFY EXISTING PIPING, DUCTWORK OR ANY ASSOCIATED EQUIPMENT.
  - CONTRACTOR TO VERIFY FLOOR TO FLOOR HEIGHTS.
- GYPSUM BOARD PARTITIONS GENERAL NOTES**
- ALL GYPSUM BOARD PARTITIONS SHALL BE @00 UNLESS OTHERWISE NOTED ON FLOOR PLAN.
  - GYPSUM BOARD PARTITION DIMENSIONS ON FLOOR PLAN ARE BASED ON EXTERIOR FACE OF SHEATHING TO EXTERIOR FACE OF SHEATHING.
  - REFER TO GYPSUM BOARD SPECIFICATION FOR LOCATION AND TYPE(S) OF GYPSUM BOARD MATERIAL REQUIRED.
  - PROVIDE ABUSE RESISTANT GYPSUM BOARD AT [list applicable locations here or remove note].
  - PROVIDE FIRE RATED GYPSUM BOARD AT ALL FIRE RATED PARTITIONS.
  - SEAL ALL WALL PENETRATIONS AT PERIMETER AND FIRESTOP ALL FIRE RATED PARTITIONS.
  - EXTEND ALL GYPSUM BOARD PARTITIONS FULL HEIGHT TO UNDERSIDE OF STEEL DECK ABOVE. AT METAL DECK CONSTRUCTION ABOVE PROVIDE SLIP JOINT BETWEEN TOP OF PARTITION AND UNDERSIDE OF METAL DECK/ STRUCTURAL STEEL MEMBER ABOVE. REFER TO DETAIL A1 / A10. EXTEND GYPSUM BOARD FURRING WALLS 3" MIN ABOVE FINISH CEILING.

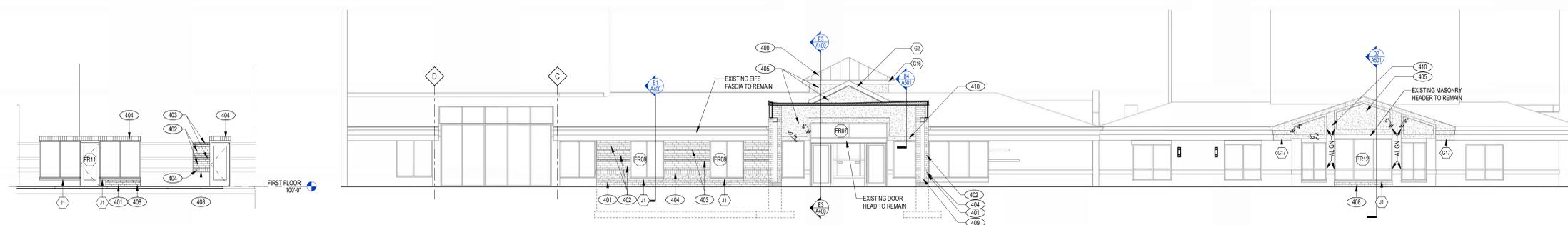
EXTERIOR WALL TYPES	
MARK	ASSEMBLY DESCRIPTION
1A.1	MASONRY VENEER STUD WALL CONSISTING OF 4" FACE BRICK, AIR SPACE, 3" RIGID INSULATION, SPRAY APPLIED AIR AND VAPOR BARRIER SYSTEM ON 5/8" EXTERIOR GYPSUM SHEATHING, 6" GALVANIZED COLD FORMED STEEL STUDS @ 16" OC AND ONE LAYER 5/8" GYPSUM BOARD AT INTERIOR FACE. PROVIDE ADJUSTABLE MASONRY VENEER ANCHORS @ 16" OC EACH WAY. CAVITY DRAINAGE MATERIAL, FLASHING, MASONRY EXPANSION AND CONTROL JOINTS. PROVIDE CAVITY WEEPERS/VENTS @ 24" OC. PROVIDE CAVITY WEEPERS/VENTS AT 12" BOTTOM OF CAVITY.
1A.2	MASONRY VENEER STUD WALL CONSISTING OF 4" FACE BRICK, AIR SPACE, WEATHER BARRIER ON 5/8" EXTERIOR GYPSUM SHEATHING, 6" GALVANIZED COLD FORMED STEEL STUDS W/ G90 COATING @ 16" OC W/ CAVITY FILLED FULL WITH BATT INSULATION. PROVIDE VAPOR RETARDER ON INTERIOR FACE OF STUD AND ONE LAYER 5/8" GYPSUM BOARD AT INTERIOR FACE. PROVIDE ADJUSTABLE MASONRY VENEER ANCHORS @ 16" OC EACH WAY. CAVITY DRAINAGE MATERIAL, FLASHING, MASONRY EXPANSION AND CONTROL JOINTS. PROVIDE CAVITY WEEPERS/VENTS @ 24" OC.
1G.1	EXTERIOR INSULATION AND FINISH SYSTEM (EIFS) STUD WALL CONSISTING OF 3" INSULATION, EIFS MANUFACTURER'S RECOMMENDED AIR/VAPOR BARRIER SYSTEM ON 1/2" EXTERIOR GRADE WOOD SHEATHING, 6" GALVANIZED COLD FORMED STEEL STUDS @ 16" OC W/ CAVITY FILLED FULL WITH BATT INSULATION. PROVIDE VAPOR RETARDER ON INTERIOR FACE OF STUD AND ONE LAYER 5/8" GYPSUM BOARD AT INTERIOR FACE.
1J.2	PANEL WALL SYSTEM CONSISTING OF METAL WALL PANELS, WEATHER BARRIER SYSTEM ON 5/8" EXTERIOR GYPSUM SHEATHING, 3/8" GALVANIZED COLD FORMED STEEL STUDS @ 16" OC.
2A.1	MASONRY VENEER STUD WALL CONSISTING OF 4" FACE BRICK, AIR SPACE, 1" CONTINUOUS RIGID INSULATION, WEATHER BARRIER ON 1/2" EXTERIOR GRADE PLYWOOD/SB SHEATHING, 2 X 6 WOOD STUDS @ 16" OC WITH FULL THICKNESS BATT INSULATION. PROVIDE VAPOR RETARDER AND ONE LAYER 5/8" GYPSUM BOARD AT INTERIOR FACE. PROVIDE ADJUSTABLE MASONRY VENEER ANCHORS @ 16" OC EACH WAY. CAVITY DRAINAGE MATERIAL, FLASHING, CAVITY WEEPERS/VENTS @ 24" OC AND MASONRY EXPANSION AND CONTROL JOINTS. PROVIDE CAVITY WEEPERS/VENTS AT 12" BOTTOM OF CAVITY.
2G.1	EXTERIOR INSULATION AND FINISH SYSTEM (EIFS) STUD WALL CONSISTING OF 1" INSULATION, EIFS MANUFACTURER'S RECOMMENDED AIR/VAPOR BARRIER SYSTEM ON 1/2" EXTERIOR GRADE WOOD SHEATHING, 2 X 6 WOOD STUDS @ 16" OC FILLED FULL WITH BATT INSULATION. PROVIDE VAPOR RETARDER AND ONE LAYER 5/8" GYPSUM BOARD @ INTERIOR FACE.

INTERIOR PARTITION TYPES				
MARK	ASSEMBLY DESCRIPTION	FIRE RATING	UL	INSULATION
	2 x 4 WOOD STUDS @ 16" OC ONE LAYER 5/8" GYPSUM BOARD @ EACH FACE	--	--	--
AG0	3/8" STEEL STUDS @ 16" OC ONE LAYER 5/8" GYPSUM BOARD @ EACH FACE	--	--	--
BG0	3/8" STEEL STUDS @ 16" OC ONE LAYER 5/8" GYPSUM BOARD @ EACH FACE	--	--	3-1/2" SOUND
BL0	1" STEEL STUDS @ 16" OC ONE LAYER 5/8" GYPSUM BOARD @ EACH FACE	--	--	FULL WIDTH SOUND
EF0	2 x 4 WOOD STUDS @ 16" OC ONE LAYER 5/8" GYPSUM BOARD @ EACH FACE	--	--	3-1/2" SOUND
EA0	2 x 6 WOOD STUDS @ 16" OC ONE LAYER 5/8" GYPSUM BOARD @ EACH FACE	--	--	5-1/2" SOUND
EJ1	2 x 6 WOOD STUDS @ 16" OC ONE LAYER 5/8" GYPSUM BOARD @ EACH FACE	1HR	--	5-1/2" SOUND
GC0	7/8" STEEL FURRING CHANNELS @ 16" OC ONE LAYER 5/8" GYPSUM BOARD	--	--	--
GO0	1/2" STEEL STUDS @ 16" OC ONE LAYER 5/8" GYPSUM BOARD	--	--	--
GE0	2-1/2" STEEL STUDS @ 16" OC ONE LAYER 5/8" GYPSUM BOARD	--	--	--
GG0	3/8" STEEL STUDS @ 16" OC ONE LAYER 5/8" GYPSUM BOARD	--	--	--
JG0	2 x 2 WOOD STUDS @ 16" OC ONE LAYER 5/8" GYPSUM BOARD	--	--	--
JF0	2 x 4 WOOD STUDS @ 16" OC ONE LAYER 5/8" GYPSUM BOARD	--	--	--
VA0	ONE LAYER DIRECT BONDED 5/8" GYPSUM BOARD	--	--	--
VG0	3/8" STEEL STUDS @ 16" OC ONE LAYER 5/8" GYPSUM BD. AND 1-1/2" STONE	--	--	--



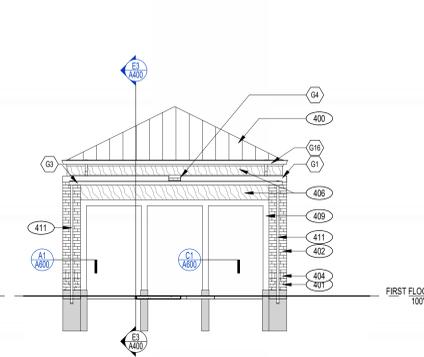
**KEY PLAN**



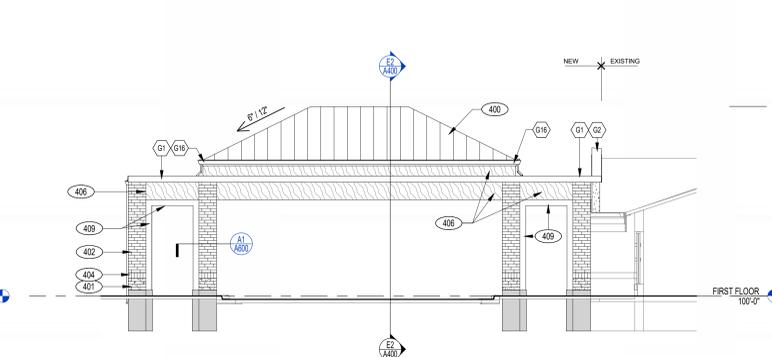


**A1 EAST ELEVATION**  
1/8" = 1'-0"

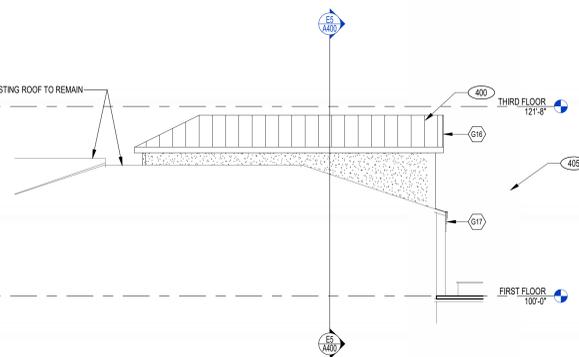
**A2 SOUTH ELEVATION**  
1/8" = 1'-0"



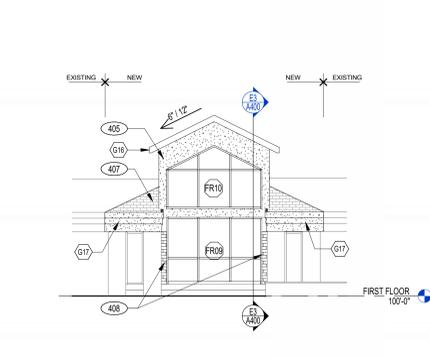
**B1 DROP-OFF CANOPY - SOUTH**  
1/8" = 1'-0"



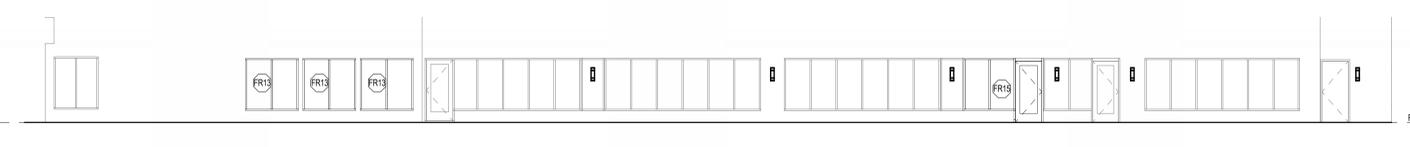
**B2 DROP-OFF CANOPY - EAST**  
1/8" = 1'-0"



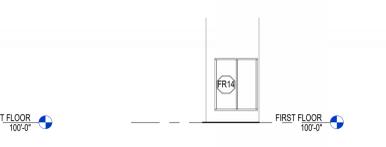
**B3 RAISED ROOF ELEVATION - EAST**  
1/8" = 1'-0"



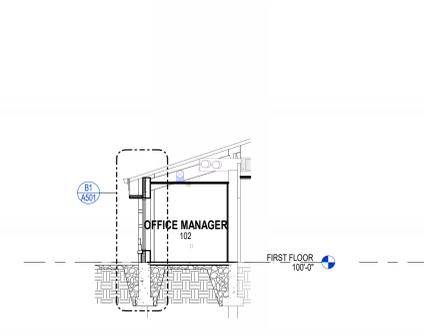
**B4 NORTH ELEVATION - COURTYARD**  
1/8" = 1'-0"



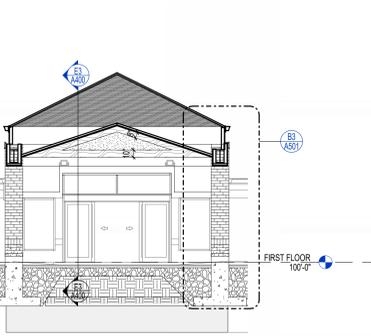
**C1 WEST ELEVATION**  
1/8" = 1'-0"



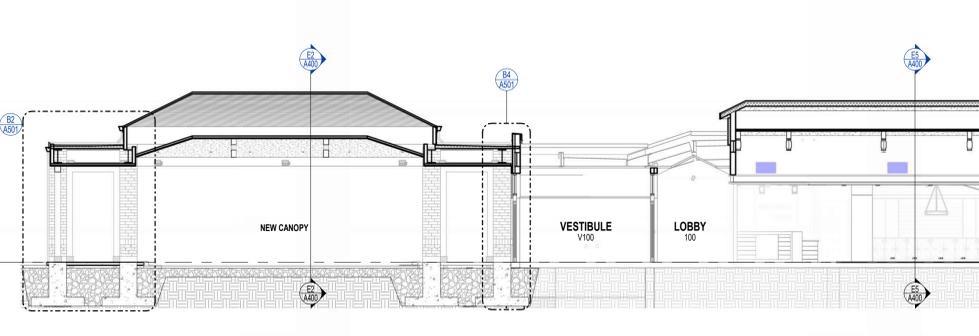
**C2 WEST ELEVATION RETURN**  
1/8" = 1'-0"



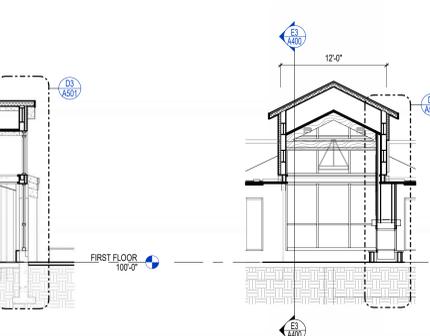
**E1 BUILDING SECTION - ADDITION**  
1/8" = 1'-0"



**E2 BUILDING SECTION - CANOPY (NS)**  
1/8" = 1'-0"



**E3 BUILDING SECTION - CANOPY & CLERESTORY (EW)**  
1/8" = 1'-0"



**E5 BUILDING SECTION - CLERESTORY (EW)**  
1/8" = 1'-0"

**EXTERIOR ELEVATIONS SYMBOLS LEGEND**

SECTION REFERENCE: [Symbol] SECTION REFERENCE  
ELEVATION NOTE: [Symbol] ELEVATION NOTE  
DETAIL REFERENCE: [Symbol] DETAIL REFERENCE  
WINDOW TYPE: [Symbol] WINDOW TYPE  
CONSTRUCTION KEYNOTE: [Symbol] CONSTRUCTION KEYNOTE

**EXTERIOR FINISH PATTERNS**

STANDING SEAM METAL ROOF  
UTILITY BRICK 1  
UTILITY BRICK 2  
UTILITY BRICK 3 (DECORATIVE COURSE)  
ASPHALT SHINGLES  
CLOSURE SIZE BRICK SOLDIER COURSE  
EFS  
WOOD LOOK LINEAR METAL SIDING

**EXTERIOR ELEVATIONS GENERAL NOTES**

A. PAINT ALL EXPOSED STEEL LITELS TO MATCH ADJACENT VENER COLOR  
B. TRIM ALL EXTERIOR LIGHTING FIXTURES, OUTLETS, HOSE BIBBS AND ALL OTHER SIDING PENETRATIONS WITH 1X4 FIBER CEMENT TRIM (TYP.)  
C. REFER TO SHEET A891 FOR WINDOW FRAME ELEVATIONS  
D. SEALANT COLORS TO MATCH ADJACENT FINISHED SURFACES.  
E. PROVIDE CONTROL JOINTS AS SHOWN ON ELEVATIONS AND AT ALL INSIDE CORNERS.

EXTERIOR ELEVATION NOTES	
MARK	DESCRIPTION
400	STANDING SEAM METAL ROOF
401	UTILITY BRICK 1
402	UTILITY BRICK 2
403	UTILITY BRICK 3 (DECORATIVE COURSE)
404	CLOSURE BRICK SOLDIER COURSE
405	EFS
406	WOOD-LOOK LINEAR METAL SIDING
407	ASPHALT SHINGLES
408	INFILL EXISTING MASONRY WALL TO MATCH
409	BREAK METAL WRAPPED COLUMN
410	EFS TRIM
411	DOWNSPOUT CONNECTED TO STORM SEWER

CONSTRUCTION TYPES	
MARK	DESCRIPTION
G1	METAL FASCIA SYSTEM: METAL GRAVEL STOP ON 2x WOOD BLOCKING
G2	METAL COPING SYSTEM: METAL COPING ON 2x WOOD BLOCKING
G3	4" METAL GUTTER
G4	OPEN TOP METAL SCUPPER 4" x 8"
G16	METAL WRAPPED FASCIA: METAL FASCIA ON 1x WOOD BLOCKING
G17	TIERED EFS SOFFIT TO MATCH EXISTING. 1/2" EXTERIOR GYPSUM SHEATHING WITH 1" RIGID INSULATION AND EFS OVER.
J1	PRECAST CONCRETE SILL. SEE DETAIL E1A800 FOR PROFILE.

**C1 WEST ELEVATION**  
1/8" = 1'-0"

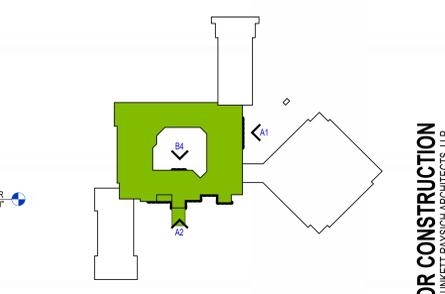
**C2 WEST ELEVATION RETURN**  
1/8" = 1'-0"

**E1 BUILDING SECTION - ADDITION**  
1/8" = 1'-0"

**E2 BUILDING SECTION - CANOPY (NS)**  
1/8" = 1'-0"

**E3 BUILDING SECTION - CANOPY & CLERESTORY (EW)**  
1/8" = 1'-0"

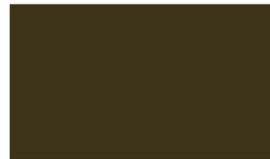
**E5 BUILDING SECTION - CLERESTORY (EW)**  
1/8" = 1'-0"



**KEY PLAN**



Photograph of Existing Front Elevation



DARK BRONZE

STANDING SEAM METAL ROOF

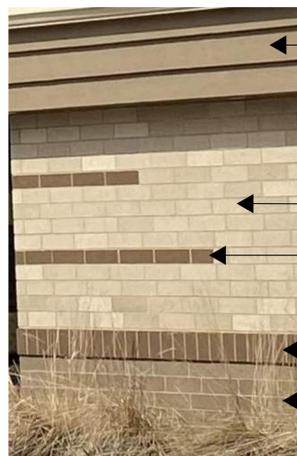


WOOD-LOOK LINEAR METAL SIDING



SIERRA TAN

ALUMINUM WRAPPED COLUMNS



EIFS (MATCH EXISTING)

UTILITY BRICK 2 (MATCH EXISTING)

UTILITY BRICK 3 - DECORATIVE COARSE (MATCH EXISTING)

BRICK SOLDIER COURSE (MATCH EXISTING)

UTILITY BRICK 1 (MATCH EXISTING)



Photograph of Affected Area to Be Built



New Entrance Canopy Rendering

NOTES:

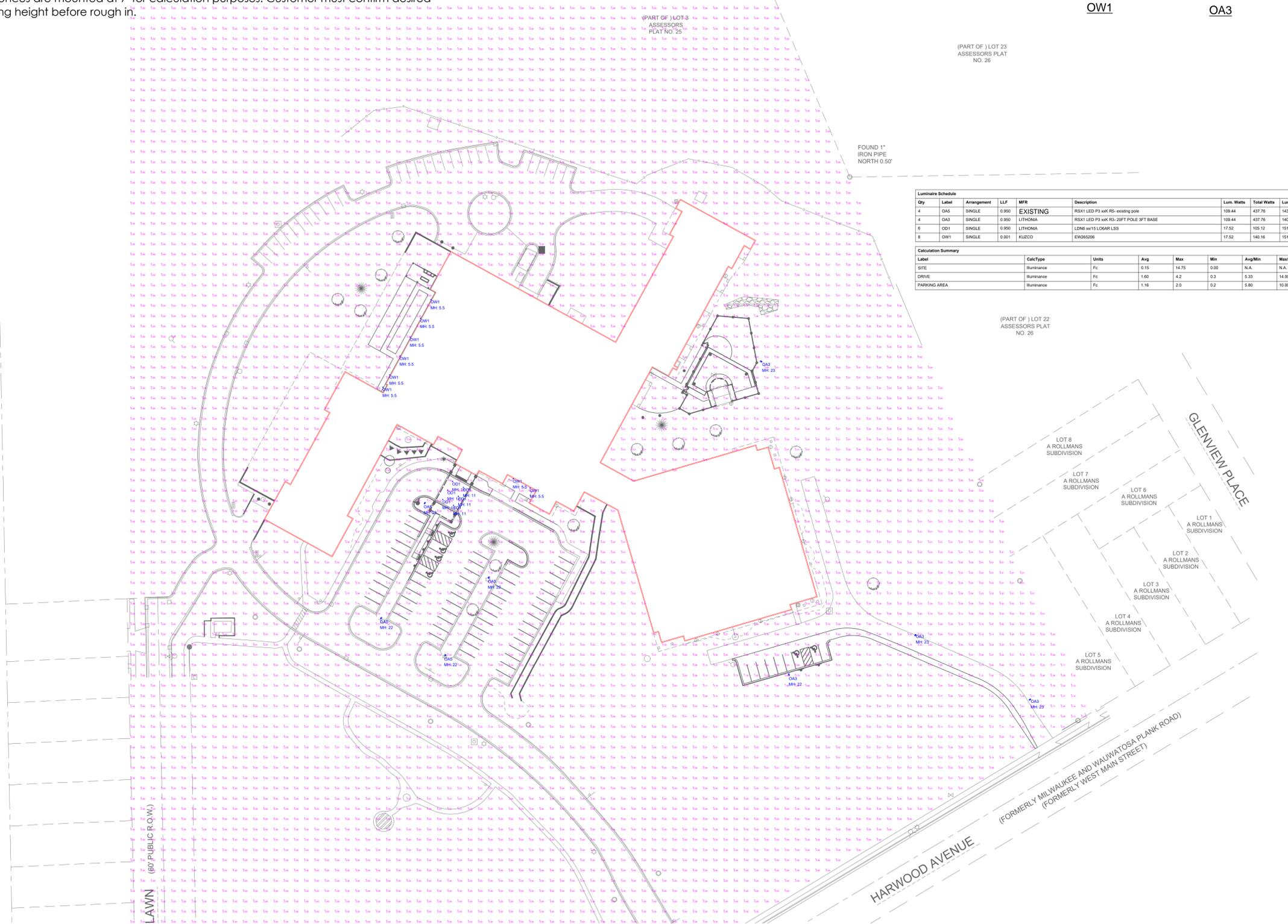
- Customers are responsible for confirming mounting heights, fixture suspension types/ lengths, color temperature, CRI, linear fixture lengths, pole lengths, and bollard heights/ lengths prior to ordering.
- Mounting height (MH) is measured from the bottom of the fixture to the floor.
- This Lighting layout assumes the following unless values are specified and must be confirmed by the customer prior to ordering.
  - Room reflectance of 80, 50, 20 for standard ceilings and 50, 50, 20 for exposed ceilings
  - Wall sconces are mounted at 7' for calculation purposes. Customer must confirm desired mounting height before rough in.



OW1



OA3



Qty	Label	Arrangement	LF	MFR	Description	Lum. Watts	Total Watts	Lum. Lumens
4	OA3	SINGLE	0.950	EXISTING	RIS1 LED P3 w/ R5- existing pole	109.44	437.76	14304
4	OA3	SINGLE	0.950	LITHONIA	RIS1 LED P3 w/ R5-20FT POLE 3FT BASE	109.44	437.76	14022
6	OD1	SINGLE	0.950	LITHONIA	LDN6 w/15 LOGAR LSS	17.52	105.12	1518
8	OW1	SINGLE	0.001	KUZCO	EW265206	17.52	140.16	1518

Label	CalcType	Units	Avg	Max	Min	AvgMin	MaxMin
SITE	Illuminance	Fc	0.15	14.75	0.00	N.A.	N.A.
DRIVE	Illuminance	Fc	1.60	4.2	0.3	5.33	14.00
PARKING AREA	Illuminance	Fc	1.16	2.0	0.2	5.80	10.00



#	DATE	COMMENTS

DRAWN BY : AD
DATE : JAN 6, 2025
SCALE : 1" = 50'-0"

THE LUTHERAN HOME
HARWOOD PLACE
WAUWATOSA, WISCONSIN



# Wauwatosa, WI

7725 W. North Avenue  
Wauwatosa, WI 53213

## Staff Report

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**File #:** 25-0171

**Agenda Date:** 2/20/2025

**Agenda #:** 2.

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Foundry Way, Mayfair 2 - New Multi-Family - Return to Board

**From:** [Steven Braatz](#)  
**To:** [tbuilding](#); [Stefanie Escobedo](#)  
**Cc:** [tclerk](#)  
**Subject:** FW: [External] Written public comment for 2/6 DRB meeting  
**Date:** Wednesday, February 5, 2025 3:01:11 PM

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FYI

**Steven A. Braatz, Jr., WCPC**

*City Clerk* | City of Wauwatosa  
7725 W North Ave | Wauwatosa, WI 53213  
Desk: (414) 479-8920 | Office: (414) 479-8917  
[www.wauwatosa.net](http://www.wauwatosa.net)

**From:** William Steinke <[williamssteinke@gmail.com](mailto:williamssteinke@gmail.com)>  
**Sent:** Wednesday, February 5, 2025 2:59 PM  
**To:** [tclerk](mailto:tclerk@wauwatosa.net) <[tclerk@wauwatosa.net](mailto:tclerk@wauwatosa.net)>  
**Subject:** [External] Written public comment for 2/6 DRB meeting

*Please accept the following as my written public comment for the members of the Design Review board and the Development team of the Foundry Way site:*

Dear Chairperson and Members of the Design Review Board,

The proposed development for the Foundry Way site has 12 bike parking stalls indicated on sheet C2.0 of their plans (page 9 of the agenda packet). From what I can see, these look to be stalls that are trying to meet the short term bicycle parking requirement outlined in Wauwatosa ordinance 24.11.080 due to their proximity to the entrance of the proposed building. However, given that this proposed development would have 125 total dwelling units, the plans as drafted appear to be 13 stalls short of the required 25 short term bicycle stalls per Wauwatosa ordinance (1 bicycle parking stall per 5 dwelling units).

Also, looking at the remainder of the plans, I was not able to see any mention of bicycle parking that would meet the requirements for long term bicycle parking also outlined in ordinance 24.1.080. I would expect to see this outlined somewhere on sheet A1.0 (page 12 of the agenda packet) since this type of bicycle parking is typically located in underground parking structures. This proposed development would be required to provide 31 long term parking stall per ordinance 24.11.080 (1 bicycle parking stall per 4 dwelling units).

I would suggest to the board that they do not approve the proposed design as is until the development team is able to conform to or clarify these discrepancies from Wauwatosa ordinance.

Please share this message with the development team as you see fit.

Best regards,

William Steinke

# MAYFAIR 2

FOUNDRY WAY , WAUWATOSA, WI

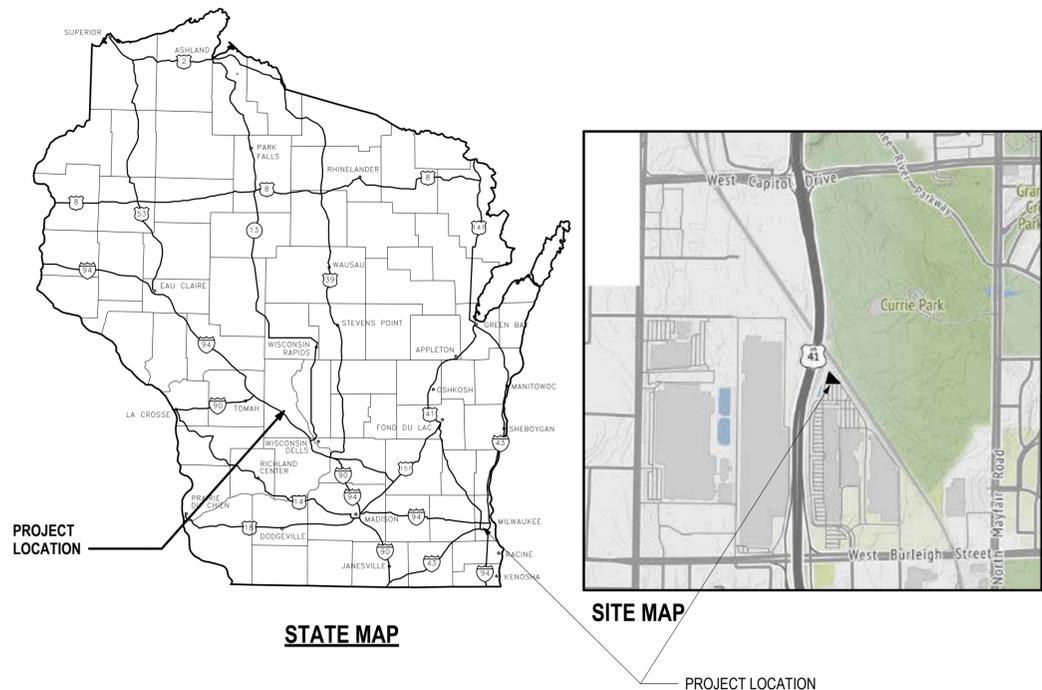
**Architecture :** **Dimension IV - Madison Design Group**  
6515 Grand Teton Plaza, Suite 120, Madison, WI 53719  
p: 608.829.4444 www.dimensionivmadison.com

**Developer:** **MSP Real Estate**  
7901 West National Avenue, West Allis, WI 53214  
p: 414.259.2108 www.msprealestateinc.com

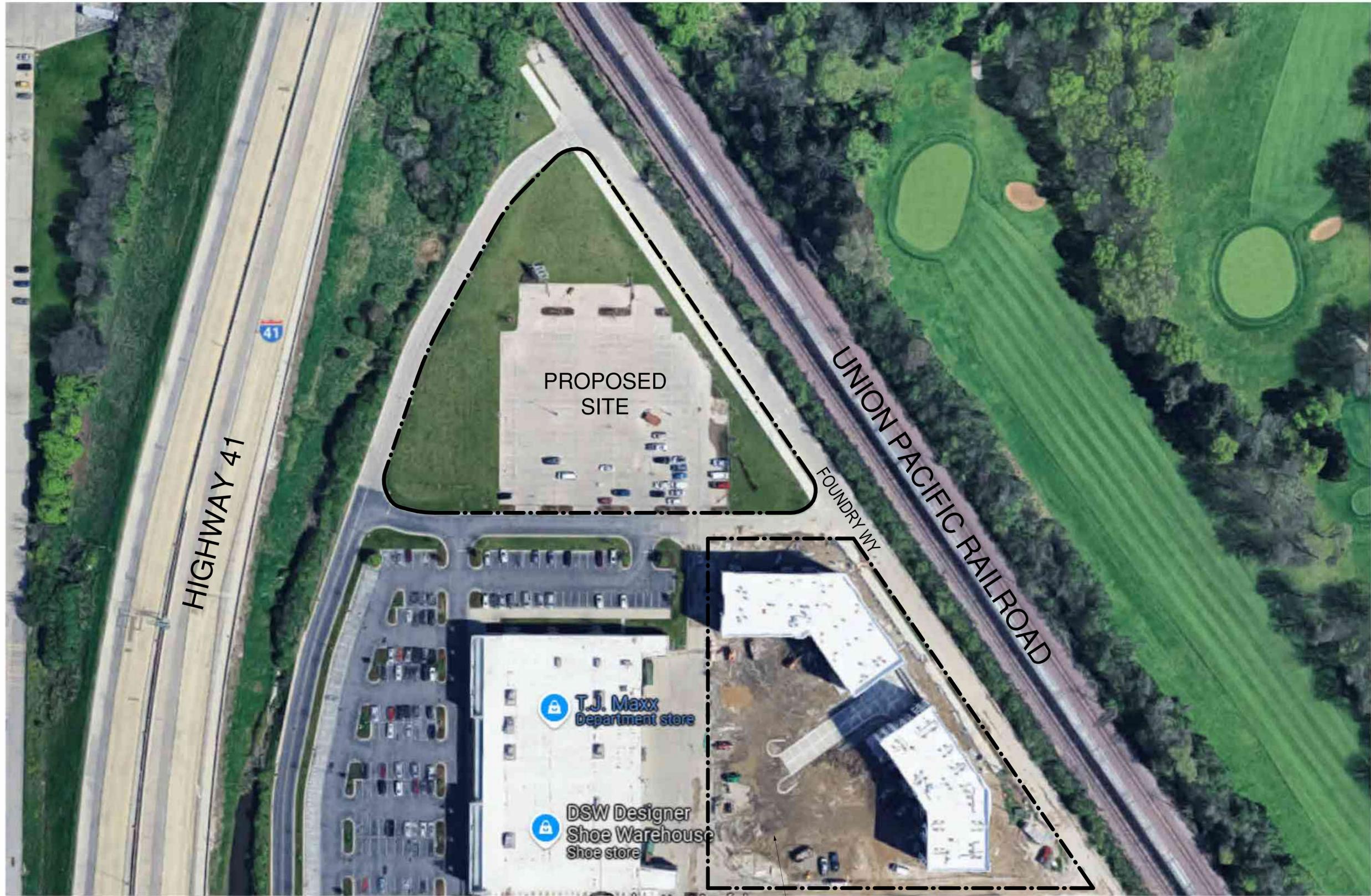
**Civil Engineering:** **CJ Engineering**  
9205 West Center Street, Suite 214, Milwaukee, WI 53222  
p: 414.443.1312 www.cj-engineering.com

**Landscape Architecture** **raSmith**  
16745 W. Bluemound Road, Brookfield, WI 53005-5938  
w:262.781.1000 www.rasmith.com

<b>PHASE 1:</b>					
<b>FLOOR:</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>TOTAL</b>
1 BED-	6	6	7	5	24
2 BED-	3	5	6	6	20
3 BED-	3	3	2	3	11
SUBTOTAL: 55					
<b>PHASE 2:</b>					
<b>FLOOR:</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>TOTAL</b>
1 BED-	11	12	13	12	48
2 BED-	4	4	4	3	15
STUDIO-	3	2	1	1	7
SUBTOTAL: 70					
TOTAL UNITS: 125					
<b>PARKING</b>					
SURFACE PARKING: 67					
UNDERGROUND PARKING: 86					
TOTAL PARKING STALLS: 153					



LIST OF DRAWINGS - DRB		
SHEET NO.	SHEET NAME	DRB
G1.0	DRB COVER SHEET	Yes
G2.0	SITE	Yes
G3.0	SITE PHOTOS	Yes
G4.0	EXISTING PROJECT PHOTOS	Yes
G5.0	MATERIALS SAMPLES	Yes
AL1.0	SITE SURVEY	Yes
C2.0	SITE PLAN	Yes
1 OF 1	SITE LIGHTING PLAN	Yes
L100	SITE LANDSCAPE PLAN	Yes
L200	LANDSCAPE NOTES AND DETAILS	Yes
A1.0	CONCEPT FLOOR PLANS	Yes
A2.0	CONCEPT ELEVATIONS	Yes
A2.1	CONCEPT ELEVATIONS	Yes
A2.2	CONCEPT ELEVATIONS	Yes
A3.0	RENDERS	Yes
S1	SIGNAGE SITE PLAN	Yes
S2	SIGNAGE DETAILS	Yes
S3	SIGNAGE DETAILS	Yes
S4	SIGNAGE DETAILS	Yes
S5	SIGNAGE DETAILS	Yes



1 SITE AERIAL VIEW  
1 1/2" = 1'-0"



(The Regent & The Oxford)  
EXISTING APARTMENT BUILDING



VIEW LOOKING FROM NORTH TOWARDS THE SITE



VIEW LOOKING FROM EAST TOWARDS THE SITE



VIEW LOOKING FROM SOUTH TOWARDS THE SITE



VIEW LOOKING FROM WEST TOWARDS THE SITE



architecture · interior design · planning  
 6515 Grand Teton Plaza, Suite 120, Madison, Wisconsin 53719  
 p608.829.4444 f608.829.4445 dimensionvmadison.com

**G3.0**  
**MAYFAIR 2**

FOUNDRY WAY , WAUWATOSA, WI

SITE PHOTOS

02/11/2025

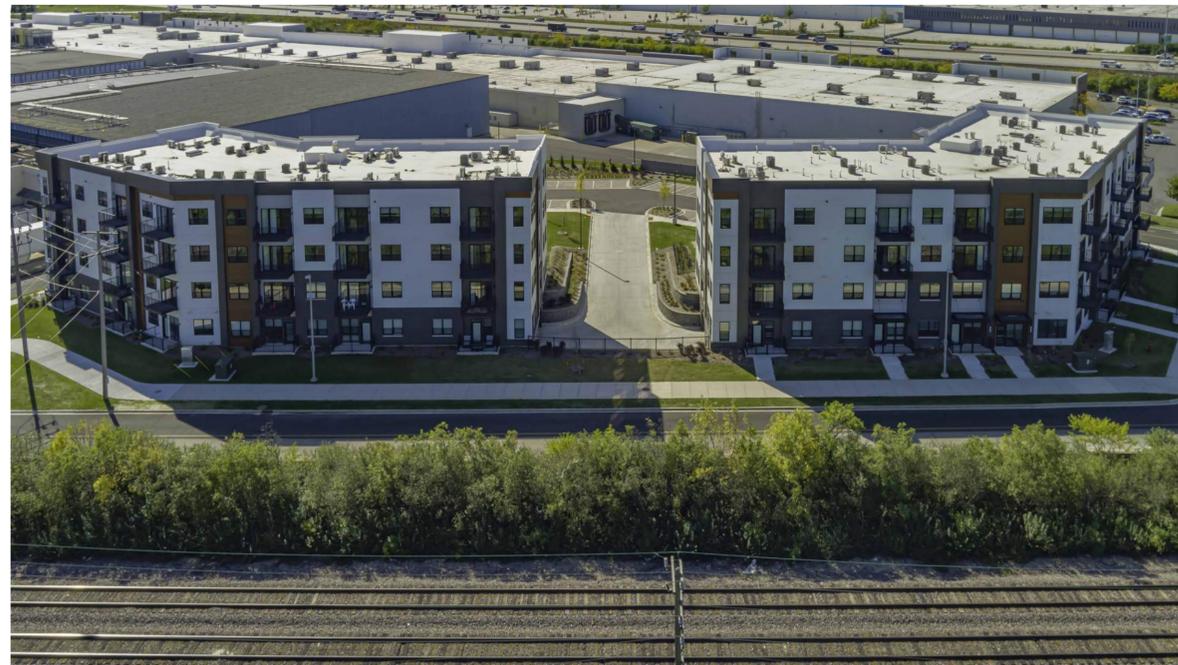
PHOTOS OF *The Regent & The Oxford*, ( EXISTING APARTMENT BUILDINGS AT 3325 AND 3375 FOUNDRY WAY)



VIEW LOOKING FROM WEST TOWARDS BUILDING



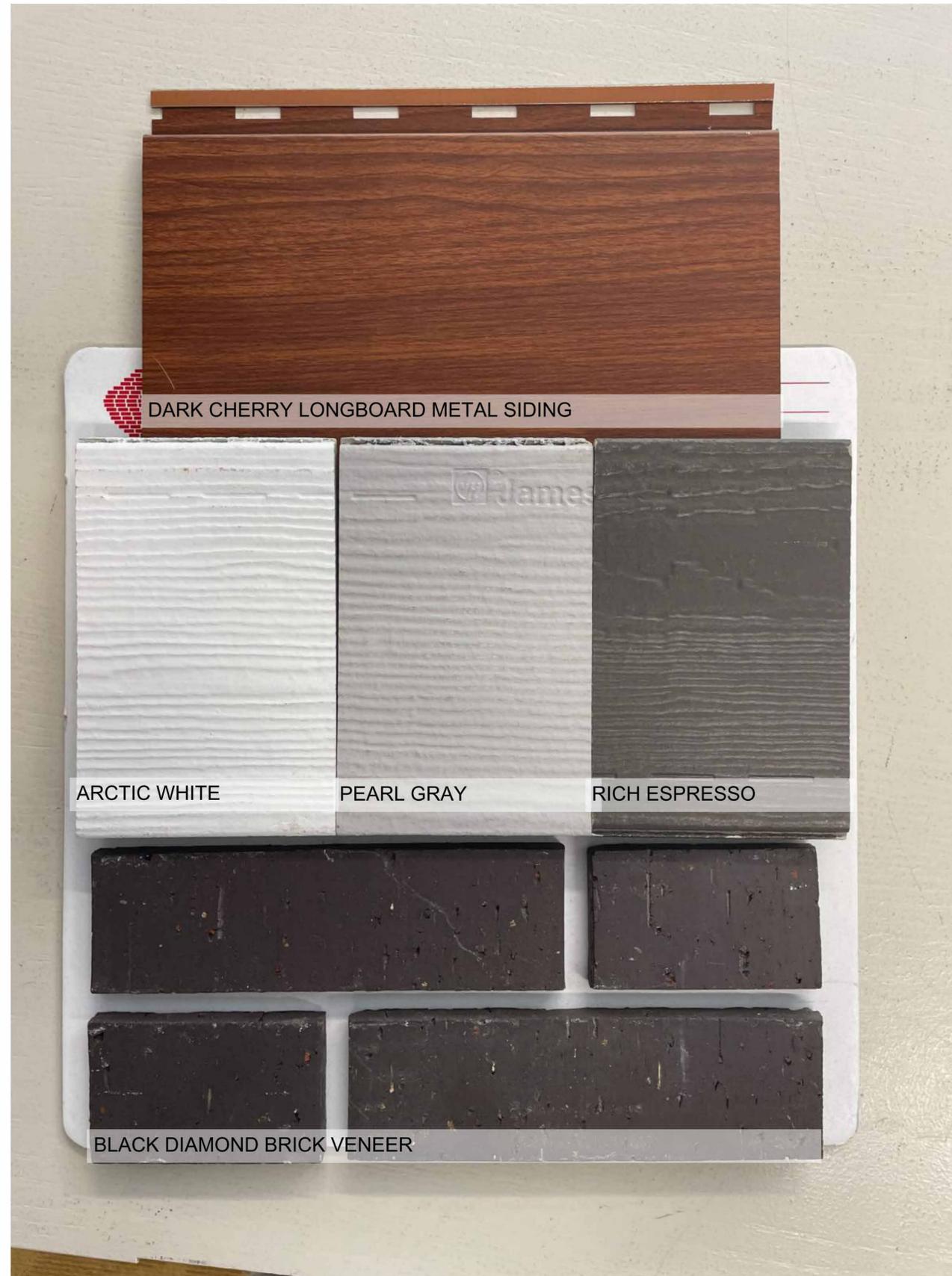
VIEW OF BUILDING A



VIEW LOOKING NORTH FROM SOUTH



VIEW LOOKING FROM SITE TO EXISTING BUILDING



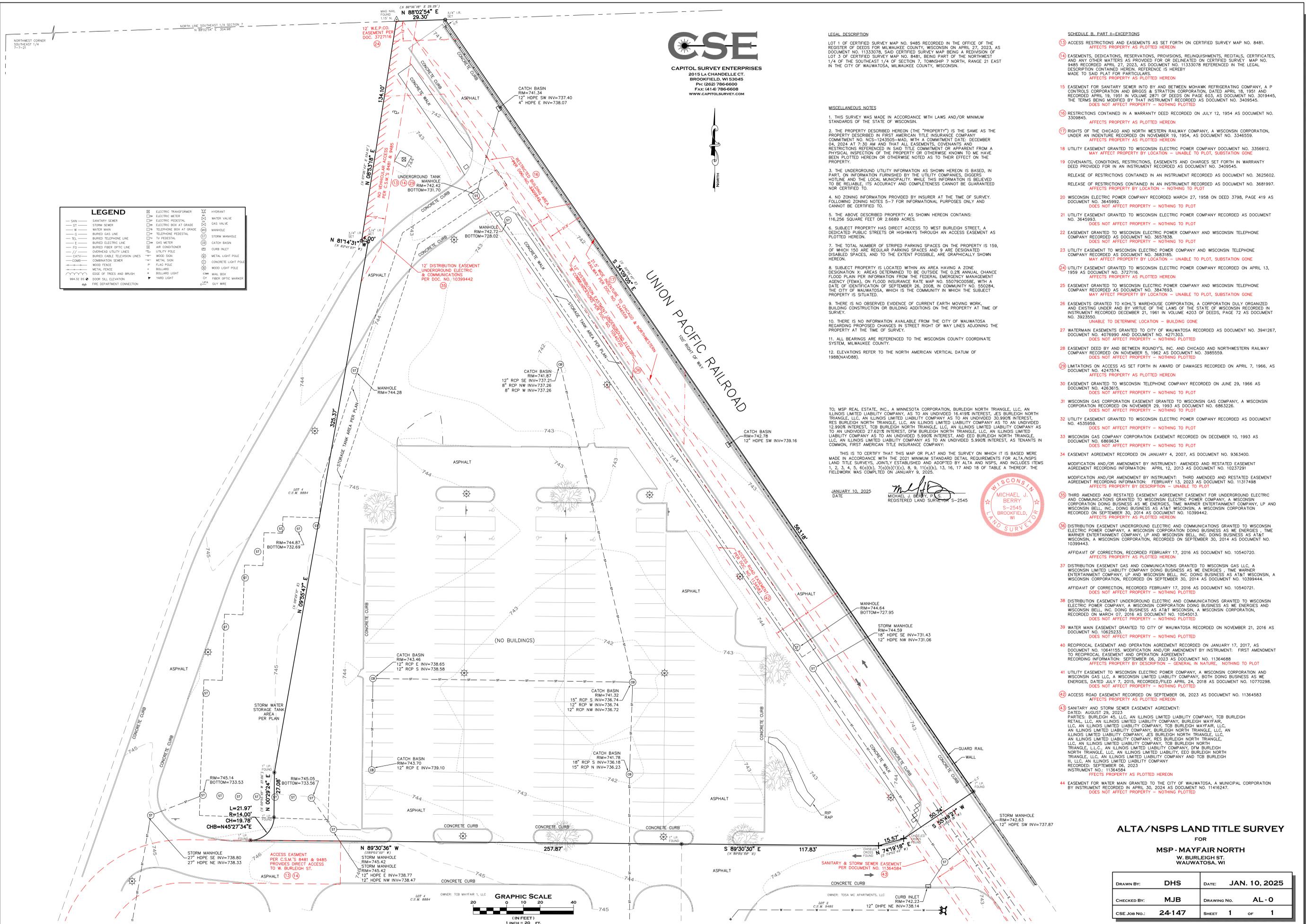
DARK CHERRY LONGBOARD METAL SIDING

ARCTIC WHITE

PEARL GRAY

RICH ESPRESSO

BLACK DIAMOND BRICK VENEER



**LEGAL DESCRIPTION**

LOT 1 OF CERTIFIED SURVEY MAP NO. 9485 RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS FOR MILWAUKEE COUNTY, WISCONSIN ON APRIL 27, 2023, AS DOCUMENT NO. 11333078, SAID CERTIFIED SURVEY MAP BEING A REDIVISION OF LOT 3 OF CERTIFIED SURVEY MAP NO. 9484, BEING PART OF THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 7, TOWNSHIP 7 NORTH, RANGE 21 EAST IN THE CITY OF WAUWATOSA, MILWAUKEE COUNTY, WISCONSIN.

**MISCELLANEOUS NOTES**

1. THIS SURVEY WAS MADE IN ACCORDANCE WITH LAWS AND/OR MINIMUM STANDARDS OF THE STATE OF WISCONSIN.
2. THE PROPERTY DESCRIBED HEREON (THE "PROPERTY") IS THE SAME AS THE PROPERTY DESCRIBED IN FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT NO. NCS-1243505-MAD, WITH A COMMITMENT DATE: DECEMBER 04, 2024 AT 7:30 AM AND THAT ALL EASEMENTS, COVENANTS AND RESTRICTIONS REFERENCED IN SAID TITLE COMMITMENT OR APPARENT FROM A PHYSICAL INSPECTION OF THE PROPERTY OR OTHERWISE KNOWN TO ME HAVE BEEN PLOTTED HEREON OR OTHERWISE NOTED AS TO THEIR EFFECT ON THE PROPERTY.
3. THE UNDERGROUND UTILITY INFORMATION AS SHOWN HEREON IS BASED, IN PART, ON INFORMATION FURNISHED BY THE UTILITY COMPANIES, DIGGERS HOTLINE AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED TO.
4. NO ZONING INFORMATION PROVIDED BY INSURER AT THE TIME OF SURVEY. FOLLOWING ZONING NOTES 5-7 FOR INFORMATIONAL PURPOSES ONLY AND CANNOT BE CERTIFIED TO.
5. THE ABOVE DESCRIBED PROPERTY AS SHOWN HEREON CONTAINS: 116,256 SQUARE FEET OR 2,668.9 ACRES.
6. SUBJECT PROPERTY HAS DIRECT ACCESS TO WEST BURLING STREET, A DEDICATED PUBLIC STREETS OR HIGHWAYS THROUGH AN ACCESS EASEMENT AS PLOTTED HEREON.
7. THE TOTAL NUMBER OF STRIPED PARKING SPACES ON THE PROPERTY IS 159, OF WHICH 150 ARE REGULAR PARKING SPACES AND 9 ARE DESIGNATED DISABLED SPACES, AND TO THE EXTENT POSSIBLE, ARE GRAPHICALLY SHOWN HEREON.
8. SUBJECT PROPERTY IS LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION X; AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN PER INFORMATION FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), ON FLOOD INSURANCE RATE MAP NO. 55079C0058E, WITH A DATE OF IDENTIFICATION OF SEPTEMBER 26, 2008, IN COMMUNITY NO. 550284, THE CITY OF WAUWATOSA, WHICH IS THE COMMUNITY IN WHICH THE SUBJECT PROPERTY IS SITUATED.
9. THERE IS NO OBSERVED EVIDENCE OF CURRENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS ON THE PROPERTY AT TIME OF SURVEY.
10. THERE IS NO INFORMATION AVAILABLE FROM THE CITY OF WAUWATOSA REGARDING PROPOSED CHANGES IN STREET RIGHT OF WAY LINES ADJOINING THE PROPERTY AT THE TIME OF SURVEY.
11. ALL BEARINGS ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY.
12. ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

TO: MSP REAL ESTATE, INC., A MINNESOTA CORPORATION, BURLIEGH NORTH TRIANGLE, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY, AS TO AN UNDIVIDED 16.419% INTEREST, JES BURLIEGH NORTH TRIANGLE, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY AS TO AN UNDIVIDED 30.990% INTEREST, RES BURLIEGH NORTH TRIANGLE, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY AS TO AN UNDIVIDED 12.990% INTEREST, TCB BURLIEGH NORTH TRIANGLE, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY AS TO AN UNDIVIDED 27.621% INTEREST, OFM BURLIEGH NORTH TRIANGLE, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY AS TO AN UNDIVIDED 5.990% INTEREST, AND EEO BURLIEGH NORTH TRIANGLE, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY AS TO AN UNDIVIDED 5.990% INTEREST, AS TENANTS IN COMMON, FIRST AMERICAN TITLE INSURANCE COMPANY.

THIS IS TO CERTIFY THAT THIS MAP OR PLAN AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6(1)(a), 7(a)(1)(i)(a), 8, 9, 11(a)(i), 13, 16, 17 AND 18 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON JANUARY 9, 2025.

JANUARY 10, 2025  
DATE  
MICHAEL J. BERRY, P.L.S.  
REGISTERED LAND SURVEYOR S-2545



**SCHEDULE B - PART II - EXCEPTIONS**

13. ACCESS RESTRICTIONS AND EASEMENTS AS SET FORTH ON CERTIFIED SURVEY MAP NO. 8481, AFFECTS PROPERTY AS PLOTTED HEREON.
14. EASEMENTS, DEDICATIONS, RESERVATIONS, PROVISIONS, RELINQUISHMENTS, RECTALS, CERTIFICATES, AND ANY OTHER MATTERS AS PROVIDED FOR OR DELINEATED ON CERTIFIED SURVEY MAP NO. 9485 RECORDED APRIL 27, 2023, AS DOCUMENT NO. 11333078 REFERENCED IN THE LEGAL DESCRIPTION CONTAINED HEREIN, REFERENCE IS HEREBY MADE TO SAID PLAN FOR PARTICULARS. AFFECTS PROPERTY AS PLOTTED HEREON.
15. EASEMENT FOR SANITARY SEWER INTO BY AND BETWEEN MOHAWK REFRIGERATING COMPANY, A P CONTROLS CORPORATION AND BRIGGS & STRATTON CORPORATION, DATED APRIL 16, 1951 AND RECORDED APRIL 19, 1951 IN VOLUME 2871 OF DEEDS ON PAGE 603, AS DOCUMENT NO. 3019445, THE TERMS BEING SO MODIFIED BY THAT INSTRUMENT RECORDED AS DOCUMENT NO. 3409545. DOES NOT AFFECT PROPERTY - NOTHING PLOTTED.
16. RESTRICTIONS CONTAINED IN A WARRANTY DEED RECORDED ON JULY 12, 1954 AS DOCUMENT NO. 3309845. AFFECTS PROPERTY AS PLOTTED HEREON.
17. RIGHTS OF THE CHICAGO AND NORTH WESTERN RAILWAY COMPANY, A WISCONSIN CORPORATION, UNDER AN INDENTURE RECORDED ON NOVEMBER 19, 1954, AS DOCUMENT NO. 3346559. AFFECTS PROPERTY AS PLOTTED HEREON.
18. UTILITY EASEMENT GRANTED TO WISCONSIN ELECTRIC POWER COMPANY DOCUMENT NO. 3356612. MAY AFFECT PROPERTY BY LOCATION - UNABLE TO PLOT, SUBSTATION GONE.
19. COVENANTS, CONDITIONS, RESTRICTIONS, EASEMENTS AND CHARGES SET FORTH IN WARRANTY DEED PROVIDED FOR IN AN INSTRUMENT RECORDED AS DOCUMENT NO. 3409545. RELEASE OF RESTRICTIONS CONTAINED IN AN INSTRUMENT RECORDED AS DOCUMENT NO. 3625602. RELEASE OF RESTRICTIONS CONTAINED IN AN INSTRUMENT RECORDED AS DOCUMENT NO. 3681997. AFFECTS PROPERTY BY LOCATION - NOTHING TO PLOT.
20. WISCONSIN ELECTRIC POWER COMPANY RECORDED MARCH 27, 1958 ON DEED 3798, PAGE 419 AS DOCUMENT NO. 3645992. DOES NOT AFFECT PROPERTY - NOTHING TO PLOT.
21. UTILITY EASEMENT GRANTED TO WISCONSIN ELECTRIC POWER COMPANY RECORDED AS DOCUMENT NO. 3645993. DOES NOT AFFECT PROPERTY - NOTHING TO PLOT.
22. EASEMENT GRANTED TO WISCONSIN ELECTRIC POWER COMPANY AND WISCONSIN TELEPHONE COMPANY RECORDED AS DOCUMENT NO. 3657858. DOES NOT AFFECT PROPERTY - NOTHING TO PLOT.
23. UTILITY EASEMENT TO WISCONSIN ELECTRIC POWER COMPANY AND WISCONSIN TELEPHONE COMPANY RECORDED AS DOCUMENT NO. 3683185. MAY AFFECT PROPERTY BY LOCATION - UNABLE TO PLOT, SUBSTATION GONE.
24. UTILITY EASEMENT GRANTED TO WISCONSIN ELECTRIC POWER COMPANY RECORDED ON APRIL 13, 1959 AS DOCUMENT NO. 3687858. AFFECTS PROPERTY AS PLOTTED HEREON.
25. EASEMENT GRANTED TO WISCONSIN ELECTRIC POWER COMPANY AND WISCONSIN TELEPHONE COMPANY RECORDED AS DOCUMENT NO. 3647693. MAY AFFECT PROPERTY BY LOCATION - UNABLE TO PLOT, SUBSTATION GONE.
26. EASEMENTS GRANTED TO KOHL'S WAREHOUSE CORPORATION, A CORPORATION DULY ORGANIZED AND EXISTING UNDER AND BY VIRTUE OF THE LAWS OF THE STATE OF WISCONSIN RECORDED IN INSTRUMENT RECORDED DECEMBER 21, 1961 IN VOLUME 4203 OF DEEDS, PAGE 72 AS DOCUMENT NO. 3923550. UNABLE TO DETERMINE LOCATION - BUILDING GONE.
27. WATERMAIN EASEMENTS GRANTED TO CITY OF WAUWATOSA RECORDED AS DOCUMENT NO. 3941267, DOCUMENT NO. 4078990 AND DOCUMENT NO. 4271503. DOES NOT AFFECT PROPERTY - NOTHING PLOTTED.
28. EASEMENT DEED BY AND BETWEEN ROUNDY'S, INC. AND CHICAGO AND NORTHWESTERN RAILWAY COMPANY RECORDED ON NOVEMBER 5, 1962 AS DOCUMENT NO. 3985559. DOES NOT AFFECT PROPERTY - NOTHING PLOTTED.
29. LIMITATIONS ON ACCESS AS SET FORTH IN AWARD OF DAMAGES RECORDED ON APRIL 7, 1966, AS DOCUMENT NO. 4247674. AFFECTS PROPERTY AS PLOTTED HEREON.
30. EASEMENT GRANTED TO WISCONSIN TELEPHONE COMPANY RECORDED ON JUNE 29, 1966 AS DOCUMENT NO. 4263617. DOES NOT AFFECT PROPERTY - NOTHING TO PLOT.
31. WISCONSIN GAS CORPORATION EASEMENT GRANTED TO WISCONSIN GAS COMPANY, A WISCONSIN CORPORATION RECORDED ON NOVEMBER 29, 1993 AS DOCUMENT NO. 6863226. DOES NOT AFFECT PROPERTY - NOTHING TO PLOT.
32. UTILITY EASEMENT GRANTED TO WISCONSIN ELECTRIC POWER COMPANY RECORDED AS DOCUMENT NO. 4339545. DOES NOT AFFECT PROPERTY - NOTHING TO PLOT.
33. WISCONSIN GAS CORPORATION EASEMENT RECORDED ON DECEMBER 10, 1993 AS DOCUMENT NO. 6869634. DOES NOT AFFECT PROPERTY - NOTHING TO PLOT.
34. EASEMENT AGREEMENT RECORDED ON JANUARY 4, 2007, AS DOCUMENT NO. 9363400. MODIFICATION AND/OR AMENDMENT BY INSTRUMENT, AMENDED AND RESTATED EASEMENT AGREEMENT RECORDED ON FEBRUARY 17, 2016 AS DOCUMENT NO. 10237291.
35. THIRD AMENDED AND RESTATED EASEMENT AGREEMENT FOR UNDERGROUND ELECTRIC AND COMMUNICATIONS GRANTED TO WISCONSIN ELECTRIC POWER COMPANY, A WISCONSIN CORPORATION DOING BUSINESS AS WE ENERGIES, TIME WARNER ENTERTAINMENT COMPANY, LP AND WISCONSIN BELL, INC. DOING BUSINESS AS AT&T WISCONSIN, A WISCONSIN CORPORATION RECORDED ON SEPTEMBER 30, 2014 AS DOCUMENT NO. 10399444. AFFECTS PROPERTY AS PLOTTED HEREON.
36. DISTRIBUTION EASEMENT UNDERGROUND ELECTRIC AND COMMUNICATIONS GRANTED TO WISCONSIN ELECTRIC POWER COMPANY, A WISCONSIN CORPORATION DOING BUSINESS AS WE ENERGIES, TIME WARNER ENTERTAINMENT COMPANY, LP AND WISCONSIN BELL, INC. DOING BUSINESS AS AT&T WISCONSIN, A WISCONSIN CORPORATION, RECORDED ON SEPTEMBER 30, 2014 AS DOCUMENT NO. 10399443.
37. AFFIDAVIT OF CORRECTION, RECORDED FEBRUARY 17, 2016 AS DOCUMENT NO. 10540720. AFFECTS PROPERTY AS PLOTTED HEREON.
38. DISTRIBUTION EASEMENT GAS AND COMMUNICATIONS GRANTED TO WISCONSIN GAS LLC, A WISCONSIN LIMITED LIABILITY COMPANY DOING BUSINESS AS WE ENERGIES, TIME WARNER ENTERTAINMENT COMPANY, LP AND WISCONSIN BELL, INC. DOING BUSINESS AS AT&T WISCONSIN, A WISCONSIN CORPORATION, RECORDED ON SEPTEMBER 30, 2014 AS DOCUMENT NO. 10399444.
39. AFFIDAVIT OF CORRECTION, RECORDED FEBRUARY 17, 2016 AS DOCUMENT NO. 10540721. DOES NOT AFFECT PROPERTY - NOTHING PLOTTED.
40. DISTRIBUTION EASEMENT UNDERGROUND ELECTRIC AND COMMUNICATIONS GRANTED TO WISCONSIN ELECTRIC POWER COMPANY, A WISCONSIN CORPORATION DOING BUSINESS AS WE ENERGIES AND WISCONSIN BELL, INC. DOING BUSINESS AS AT&T WISCONSIN, A WISCONSIN CORPORATION, RECORDED ON MARCH 07, 2016 AS DOCUMENT NO. 10545013. DOES NOT AFFECT PROPERTY - NOTHING PLOTTED.
41. WATER MAIN EASEMENT GRANTED TO CITY OF WAUWATOSA RECORDED ON NOVEMBER 21, 2016 AS DOCUMENT NO. 10625233. DOES NOT AFFECT PROPERTY - NOTHING PLOTTED.
42. RECIPROCAL EASEMENT AND OPERATION AGREEMENT RECORDED ON JANUARY 17, 2017, AS DOCUMENT NO. 10641155. MODIFICATION AND/OR AMENDMENT BY INSTRUMENT, FIRST AMENDMENT TO RECIPROCAL EASEMENT AND OPERATION AGREEMENT RECORDED ON SEPTEMBER 06, 2023 AS DOCUMENT NO. 11364688. AFFECTS PROPERTY BY DESCRIPTION - GENERAL IN NATURE. NOTHING TO PLOT.
43. UTILITY EASEMENT TO WISCONSIN ELECTRIC POWER COMPANY, A WISCONSIN CORPORATION AND WISCONSIN GAS LLC, A WISCONSIN LIMITED LIABILITY COMPANY, BOTH DOING BUSINESS AS WE ENERGIES, DATED JULY 7, 2015, RECORDED/FILED APRIL 24, 2018 AS DOCUMENT NO. 10770298. DOES NOT AFFECT PROPERTY - NOTHING PLOTTED.
44. ACCESS ROAD EASEMENT RECORDED ON SEPTEMBER 06, 2023 AS DOCUMENT NO. 11364583. AFFECTS PROPERTY AS PLOTTED HEREON.
45. SANITARY AND STORM SEWER EASEMENT AGREEMENT: DATED: AUGUST 29, 2023 PARTIES: BURLIEGH 45, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY, TCB BURLIEGH RETAIL, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY, BURLIEGH MAYFAIR, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY, TCB BURLIEGH MAYFAIR, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY, BURLIEGH NORTH TRIANGLE, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY, RES BURLIEGH NORTH TRIANGLE, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY, JES BURLIEGH NORTH TRIANGLE, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY, TCB BURLIEGH NORTH TRIANGLE, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY, OFM BURLIEGH NORTH TRIANGLE, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY, EEO BURLIEGH NORTH TRIANGLE, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY AND TCB BURLIEGH RETAIL, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY. RECORDED: SEPTEMBER 06, 2023 INSTRUMENT NO.: 11364584. AFFECTS PROPERTY AS PLOTTED HEREON.
46. EASEMENT FOR WATER MAIN GRANTED TO THE CITY OF WAUWATOSA, A MUNICIPAL CORPORATION BY INSTRUMENT RECORDED IN APRIL 30, 2024 AS DOCUMENT NO. 11416247. DOES NOT AFFECT PROPERTY - NOTHING PLOTTED.

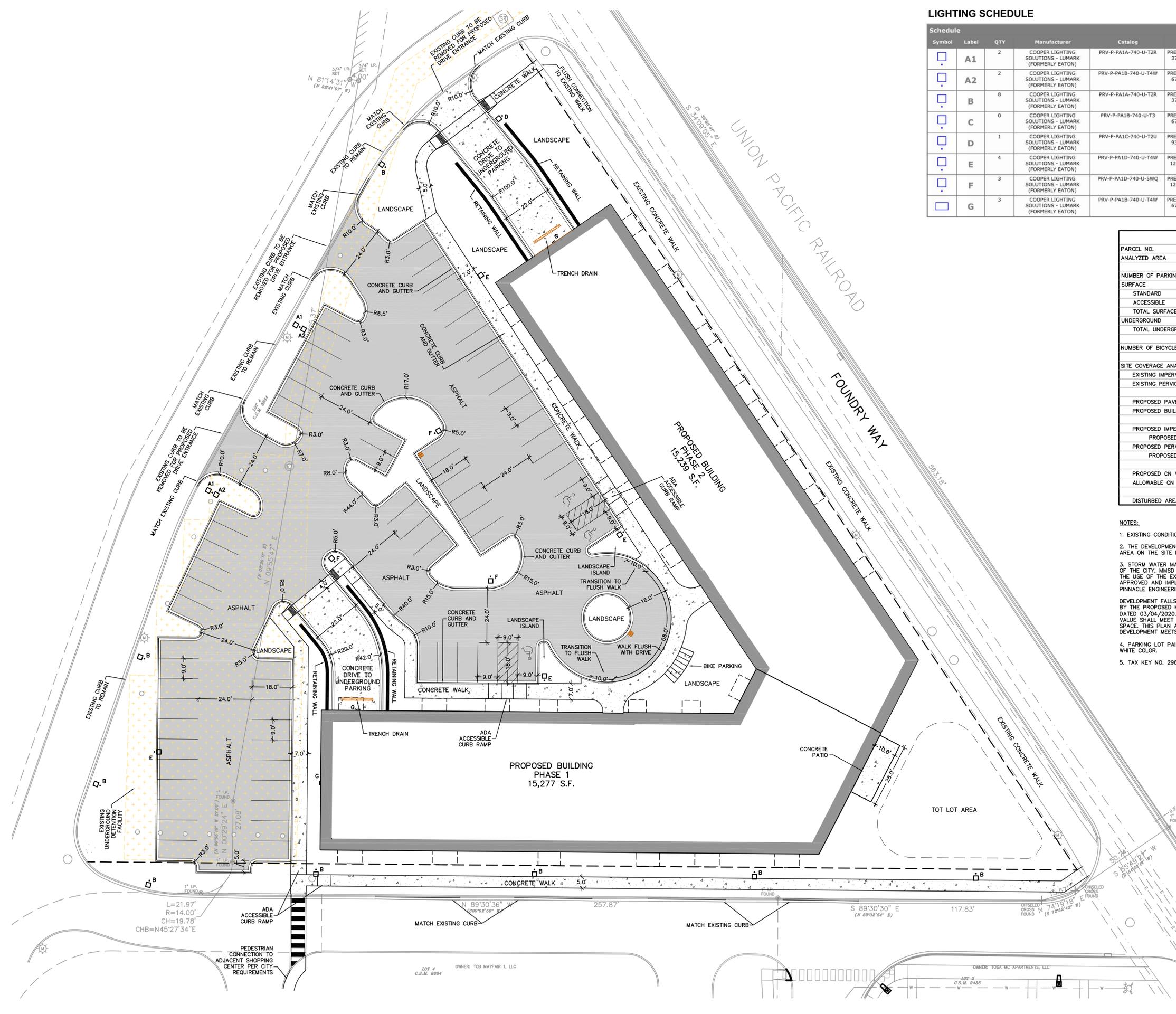
**ALTA/NSPS LAND TITLE SURVEY**  
FOR  
**MSP - MAYFAIR NORTH**  
W. BURLIEGH ST.  
WAUWATOSA, WI

DRAWN BY:	<b>DHS</b>	DATE:	<b>JAN. 10, 2025</b>
CHECKED BY:	<b>MJB</b>	DRAWING NO.:	<b>AL - 0</b>
CSE JOB NO.:	<b>24-147</b>	SHEET	<b>1</b> OF <b>1</b>



**LEGEND**

— SAN	— STORM SEWER	— W	— BURIED GAS LINE	— TEL	— BURIED FIBER OPTIC LINE	— OVERHEAD UTILITY LINES	— COMBINATION SEWER	— WOOD FENCE	— METAL FENCE	— 99A.32	— 99B
— SANITARY SEWER	— WATER MAIN	— BURIED TELEPHONE LINE	— BURIED ELECTRIC LINE	— OVERHEAD UTILITY LINES	— COMBINATION SEWER	— WOOD FENCE	— METAL FENCE	— 99A.32	— 99B	— FIRE DEPARTMENT CONNECTION	—
— ELECTRIC TRANSFORMER	— ELECTRIC METER	— ELECTRIC BOX AT GRADE	— TELEPHONE PEDESTAL	— GAS METER	— AIR CONDITIONER	— WOOD SIGN	— METAL SIGN	— MAIL BOX	— BOLLARD	— FIBER OPTIC MARKER	— GUY WIRE
— HYDRANT	— WATER VALVE	— GAS VALVE	— MANHOLE	— STORM MANHOLE	— CATCH BASIN	— CATCH INLET	— METAL LIGHT POLE	— WOOD LIGHT POLE	— FLAG POLE	— BOLLARD	— FIBER OPTIC MARKER



**LIGHTING SCHEDULE**

Symbol	Label	QTY	Manufacturer	Catalog	Description	LLF	Input Power
□	A1	2	COOPER LIGHTING SOLUTIONS - LUMARK (FORMERLY EATON)	PRV-P-PA1A-740-U-T2R	PREVAIL AREA LUMINAIRE (1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS	1	30.7
□	A2	2	COOPER LIGHTING SOLUTIONS - LUMARK (FORMERLY EATON)	PRV-P-PA1B-740-U-T4W	PREVAIL AREA LUMINAIRE (1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS	1	52.8
□	B	8	COOPER LIGHTING SOLUTIONS - LUMARK (FORMERLY EATON)	PRV-P-PA1A-740-U-T2R	PREVAIL AREA LUMINAIRE (1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS	1	30.7
□	C	0	COOPER LIGHTING SOLUTIONS - LUMARK (FORMERLY EATON)	PRV-P-PA1B-740-U-T3	PREVAIL AREA LUMINAIRE (1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS	1	52.8
□	D	1	COOPER LIGHTING SOLUTIONS - LUMARK (FORMERLY EATON)	PRV-P-PA1C-740-U-T2U	PREVAIL AREA LUMINAIRE (1) 70 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS	1	72.1
□	E	4	COOPER LIGHTING SOLUTIONS - LUMARK (FORMERLY EATON)	PRV-P-PA1D-740-U-T4W	PREVAIL AREA LUMINAIRE (1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS	1	93.4
□	F	3	COOPER LIGHTING SOLUTIONS - LUMARK (FORMERLY EATON)	PRV-P-PA1D-740-U-S1WQ	PREVAIL AREA LUMINAIRE (1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS	1	93.4
□	G	3	COOPER LIGHTING SOLUTIONS - LUMARK (FORMERLY EATON)	PRV-P-PA1B-740-U-T4W	PREVAIL WALL LUMINAIRE (1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS	1	52.8

**SITE INFORMATION**

PARCEL NO.	2961001000
ANALYZED AREA	99,076 S.F. (2.274 ACRES)
<b>NUMBER OF PARKING STALLS</b>	
SURFACE	
STANDARD	64
ACCESSIBLE	3
TOTAL SURFACE	67
<b>UNDERGROUND</b>	
TOTAL UNDERGROUND	86
<b>NUMBER OF BICYCLE STALLS:</b>	
	12
<b>SITE COVERAGE ANALYSIS</b>	
EXISTING IMPERVIOUS SURFACE AREA	49,731 SF (1.142 ACRES)
EXISTING PERVIOUS SURFACE AREA	49,346 SF (1.133 ACRES)
PROPOSED PAVED AREA	38,668 SF (0.888 ACRES)
PROPOSED BUILDING FOOTPRINT	30,516 SF (0.701 ACRES)
PROPOSED IMPERVIOUS SURFACE AREA	69,184 SF (1.588 ACRES)
PROPOSED IMPERVIOUS SITE PERCENTAGE	70%
PROPOSED PERVIOUS SURFACE AREA	29,892 SF (0.686 ACRES)
PROPOSED PERVIOUS SITE PERCENTAGE	30%
PROPOSED CN VALUE	91
ALLOWABLE CN VALUE	92
DISTURBED AREA	99,076 SF (2.274 ACRES)

**NOTES:**

- EXISTING CONDITIONS BASED ON SURVEY BY CAPITOL SURVEY ENTERPRISE
- THE DEVELOPMENT WILL RESULT IN AN INCREASE IN IMPERVIOUS SURFACE AREA ON THE SITE BY 0.45 ACRES.
- STORM WATER MANAGEMENT FOR THIS SITE, MEETING THE REQUIREMENTS OF THE CITY, MMSD AND WI DNR 151 FOR REDEVELOPMENT WILL BE MET BY THE USE OF THE EXISTING UNDERGROUND DETENTION FACILITY DESIGNED, APPROVED AND IMPLEMENTED FROM THE PLAN & REPORT FURNISHED BY PINNACLE ENGINEERING GROUP DATED 07/10/2020.
- DEVELOPMENT FALLS UNDER THE A4 SUBCATCHMENT LIMITS AS DELINEATED BY THE PROPOSED HYDROLOGY EXHIBIT BY PINNACLE ENGINEERING GROUP DATED 03/04/2020. SUBCATCHMENT A4 SPECIFIES THAT THE SITE CN VALUE SHALL MEET THE 92 VALUE REQUIREMENT AND PROVIDE 25% GREEN SPACE. THIS PLAN AND SITE AREA ANALYSIS SHOWS THAT THIS DEVELOPMENT MEETS AND EXCEED THESE REQUIREMENTS.
- PARKING LOT PAINT STRIPING SHALL BE A MINIMUM OF 3" AND IN A WHITE COLOR.
- TAX KEY NO. 2961001000



CREATE THE VISION TELL THE STORY

jsdinc.com

MILWAUKEE REGIONAL OFFICE  
W238 N1610 BUSSE ROAD, SUITE 100  
WAUKESHA, WISCONSIN 53188  
P. 262.513.0666

CLIENT:  
**MSP REAL ESTATE**

CLIENT ADDRESS:  
**7901 West National Avenue  
West Allis, WI, 53214**

PROJECT:  
**MSP Mayfair North**

PROJECT LOCATION:  
**Foundry Way  
Wauwatosa, Milwaukee County  
Wisconsin, 53222**

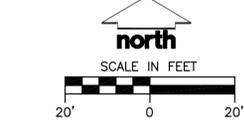
**PLAN MODIFICATIONS:**

#	Date:	Description:
1	02/11/2025	DRB SUBMITTAL
2		
3		
4		
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8		
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14		
15		

Designed By: PJS  
Reviewed By: CAJ  
Approved By:

**SITE PLAN**

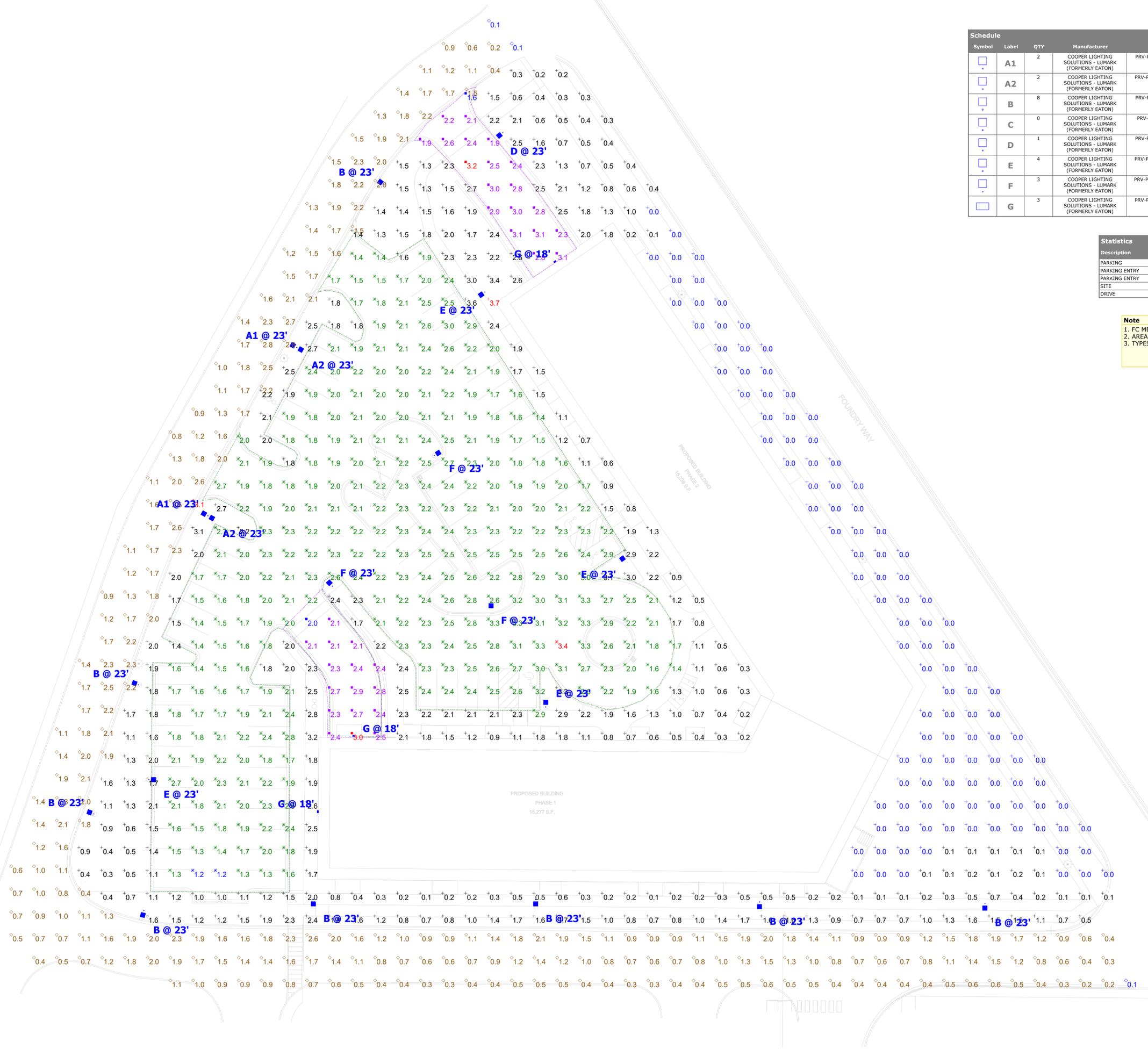
SHEET NUMBER:  
**C2.0**



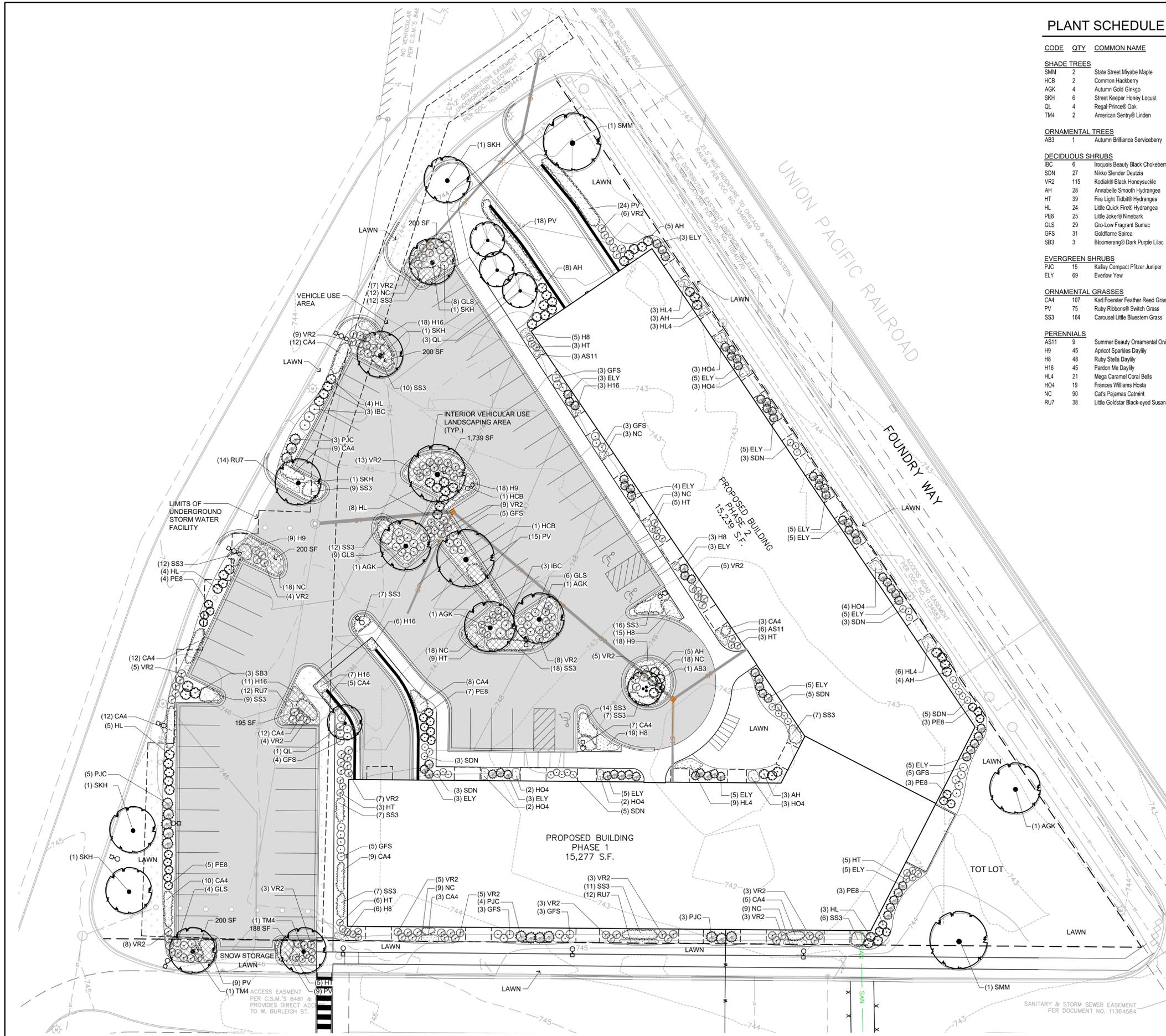
Symbol	Label	QTY	Manufacturer	Catalog	Description	LLF	Input Power
	A1	2	COOPER LIGHTING SOLUTIONS - LUMARK (FORMERLY EATON)	PRV-P-PA1A-740-U-T2R	PREVAIL AREA LUMINAIRE (1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS	1	30.7
	A2	2	COOPER LIGHTING SOLUTIONS - LUMARK (FORMERLY EATON)	PRV-P-PA1B-740-U-T4W	PREVAIL AREA LUMINAIRE (1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS	1	52.8
	B	8	COOPER LIGHTING SOLUTIONS - LUMARK (FORMERLY EATON)	PRV-P-PA1A-740-U-T2R	PREVAIL AREA LUMINAIRE (1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS	1	30.7
	C	0	COOPER LIGHTING SOLUTIONS - LUMARK (FORMERLY EATON)	PRV-P-PA1B-740-U-T3	PREVAIL AREA LUMINAIRE (1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS	1	52.8
	D	1	COOPER LIGHTING SOLUTIONS - LUMARK (FORMERLY EATON)	PRV-P-PA1C-740-U-T2U	PREVAIL AREA LUMINAIRE (1) 70 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS	1	72.1
	E	4	COOPER LIGHTING SOLUTIONS - LUMARK (FORMERLY EATON)	PRV-P-PA1D-740-U-T4W	PREVAIL AREA LUMINAIRE (1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS	1	93.4
	F	3	COOPER LIGHTING SOLUTIONS - LUMARK (FORMERLY EATON)	PRV-P-PA1D-740-U-SWQ	PREVAIL AREA LUMINAIRE (1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS	1	93.4
	G	3	COOPER LIGHTING SOLUTIONS - LUMARK (FORMERLY EATON)	PRV-P-PA1B-740-U-T4W	PREVAIL WALL LUMINAIRE (1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS	1	52.8

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PARKING		2.2 fc	3.4 fc	1.2 fc	2.8:1	1.8:1
PARKING ENTRY		2.4 fc	3.0 fc	2.0 fc	1.5:1	1.2:1
PARKING ENTRY		2.6 fc	3.2 fc	1.6 fc	2.0:1	1.6:1
SITE		1.5 fc	3.7 fc	0.0 fc	N/A	N/A
DRIVE		1.3 fc	3.1 fc	0.1 fc	31.0:1	13.0:1

**Note**  
 1. FC MEASURED AT 0' AFG  
 2. AREA LUMINAIRES MOUNTED TO 20'-0" POLE WITH 3'-0" CONCRETE BASE  
 3. TYPES A1 AND A2 ARE MOUNTED AT 180 DEGREES ON ONE POLE



**Plan View**  
 Scale - 1" = 20ft



**PLANT SCHEDULE SITE**

CODE	QTY	COMMON NAME	BOTANICAL NAME	INSTALLED SIZE	ROOT	SPACING	MATURE SIZE
<b>SHADE TREES</b>							
SMM	2	Slate Street Miyabe Maple	Acer miyabei 'Morton' Slate Stree	2 1/2" CAL	B&B	Spacing as shown	35' x 35'
HCB	2	Common Hackberry	Celtis occidentalis	2 1/2" CAL	B&B	Spacing as shown	50' x 50'
AGK	4	Autumn Gold Ginkgo	Ginkgo biloba 'Autumn Gold' TM	2 1/2" CAL	B&B	Spacing as shown	45' x 30'
SKH	6	Street Keeper Honey Locust	Gleditsia triacanthos 'Draves'	2 1/2" CAL	B&B	Spacing as shown	45' x 20'
QL	4	Regal Prince® Oak	Quercus robur x bicolor 'Long'	2" CAL	CONT	Spacing as shown	45' x 18'
TM4	2	American Sentry® Linden	Tilia americana 'McK Sentry'	2 1/2" CAL	B&B	Spacing as shown	55' x 25'
<b>ORNAMENTAL TREES</b>							
AB3	1	Autumn Brilliance Serviceberry	Amelanchier x grandiflora 'Autumn Brilliance'	7" HT	B&B	Spacing as shown	20' x 20'
<b>DECIDUOUS SHRUBS</b>							
IBC	6	Iroquois Beauty Black Chokeberry	Aronia melanocarpa 'Morton'	18" HT	CONT	Spacing as shown	2.5' x 4.5'
SDN	27	Nikko Slender Deutzia	Deutzia gracilis 'Nikko'	15" HT	CONT	Spacing as shown	2' x 4'
VR2	115	Kodiak® Black Honeysuckle	Diervilla rivularis 'SMNDRSP'	15" HT	CONT	Spacing as shown	3' x 4'
AH	28	Annabelle Smooth Hydrangea	Hydrangea arborescens 'Annabelle'	18" HT	CONT	Spacing as shown	4' x 4'
HT	39	Fire Light Tidbit® Hydrangea	Hydrangea paniculata 'SMNH-HPK'	15" HT	CONT	Spacing as shown	2.5' x 3'
HL	24	Little Joker® Fire® Hydrangea	Hydrangea paniculata 'SMHPLOF'	18" HT	CONT	Spacing as shown	4' x 4'
PE8	25	Little Joker® Ninebark	Physocarpus opulifolius 'Hoogi021'	18" HT	CONT	Spacing as shown	3.5' x 3.5'
GLS	29	Go-Low Fragrant Sumac	Rhus aromatica 'Go-Low'	15" SPD	CONT	Spacing as shown	2.5' x 6'
GFS	31	Goldflame Spirea	Spiraea japonica 'Goldflame'	15" HT	CONT	Spacing as shown	2.5' x 3.5'
SB3	3	Bloomerang® Dark Purple Lilac	Syringa x 'SMSJBP7'	18" HT	CONT	Spacing as shown	5' x 5'
<b>EVERGREEN SHRUBS</b>							
PJC	15	Kalypso Compact Pfitzer Juniper	Juniperus chinensis 'Kallays Compact'	18" SPD	CONT	Spacing as shown	2' x 5'
ELY	69	Everlow Yew	Taxus x media 'Everlow'	15" HT	B&B	Spacing as shown	1.5' x 5'
<b>ORNAMENTAL GRASSES</b>							
CA4	107	Karl Foerster Feather Reed Grass	Calamagrostis x acutiflora 'Karl Foerster'	1 GAL	CONT	24" Spacing	5' x 2'
PV	75	Ruby Ribbons® Switch Grass	Panicum virgatum 'RR1'	1 GAL	CONT	30" Spacing	3' x 2.5'
SS3	164	Carousel Little Bluestem Grass	Schizachyrium scoparium 'Carousel'	1 GAL	CONT	24" Spacing	2.5' x 2.5'
<b>PERENNIALS</b>							
AS11	9	Summer Beauty Ornamental Onion	Allium x 'Summer Beauty'	1 GAL	POT	18" Spacing	1.5' x 1.5'
H9	45	Apricot Sparkles Daylily	Hemerocallis x 'Apricot Sparkles'	1 GAL	POT	18" Spacing	1.5' x 1.5'
H8	48	Ruby Stella Daylily	Hemerocallis x 'Ruby Stella'	1 GAL	POT	18" Spacing	1.5' x 1.5'
H16	45	Pardon Me Daylily	Hemerocallis x 'Pardon Me'	1 GAL	POT	18" Spacing	1.5' x 1.5'
HL4	21	Mega Caramel Coral Bells	Heuchera x 'Mega Caramel'	1 GAL	POT	24" Spacing	1.5' x 2'
HO4	19	Frances Williams Hosta	Hosta sieboldiana 'Frances Williams'	1 GAL	POT	30" Spacing	2' x 4'
NC	90	Cat's Pajamas Catmint	Nepeta x 'Cat's Pajamas'	1 GAL	POT	18" Spacing	1.25' x 1.5'
RU7	38	Little Goldstar Black-eyed Susan	Rutbeckia fulgida var. sullivanti 'Little Goldstar'	1 GAL	POT	18" Spacing	1.25' x 1.5'

LANDSCAPE CALCULATIONS  
 PERIMETER VEHICULAR USE AREA - WHEN PARKING IS WITHIN 100LF OF RIGHT OF WAY AND MORE THAN 5 PARKING STALLS  
 REQUIRED: LANDSCAPE STRIP MIN OF 7' DEPTH MUST BE PROVIDED BETWEEN VEHICLE USE AREA AND ROW MUST INCLUDE 3 DECIDUOUS TREES AND 10 SHRUBS PER 50LF OF VEHICULAR USE FRONTAGE  
 NA-

INTERIOR VEHICULAR USE AREA LANDSCAPE: 5 OR MORE PARKING STALLS  
 AREA = PARKING, DRIVE AISLES, DRIVEWAYS AND DRIVE THROUGH LANES (DOES NOT INCLUDE PARKING IN A STRUCTURE)

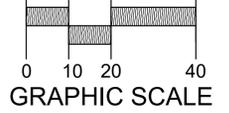
VEHICLE USE AREA = 29,198 - LANDSCAPE AREA REQUIRED = 2,920 SF PROVIDED: 2,922 SF

REQUIRED: AT LEAST 10% OF USE AREA MUST BE LANDSCAPED ISLANDS AND MEDIANS MUST HAVE AT LEAST 135 SF AND BE 10' WIDE AREAS OUTSIDE THE VUA DON'T COUNT TOWARD INTERIOR. CORNERS MAX 200 SF. IF AT LEAST 1 SHADE TREE IS INCLUDED 1 SHADE TREE PER 180 SF OF INTERIOR LANDSCAPE AREA 2,920 / 180 = 17 TREES REQUIRED PROVIDED: 9 TREES. ADDITIONAL TREES LOCATED AROUND PERIMETER. UNDER GROUND STORMWATER FACILITY LIMITS PLACEMENT WITHIN ISLANDS.

SNOW SHALL NOT BE PUSHED ONTO LANDSCAPE ISLANDS.



DATE: 02-11-2025



Know what's below. Call before you dig.

R.A. SMITH, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF R.A. SMITH, INC.  
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DESCRIPTION	
DATE	
16745 W. Bluemound Road Brookfield, WI 53005-5938 (262) 781-1000 <b>raSmith</b> CREATIVITY BEYOND ENGINEERING Brookfield, WI   Milwaukee, WI   Appleton, WI   Madison, WI Cedarburg, WI   Naperville, IL   Irvine, CA <a href="http://rasmith.com">rasmith.com</a>	
<b>MSP - MAYFAIR NORTH</b> <b>CITY OF WAUWATOSA</b> <b>SITE LANDSCAPE PLAN</b>	
© COPYRIGHT 2025 R.A. Smith, Inc. DATE: 02/11/25 SCALE: 1" = 20' JOB NO. 3250016 PROJECT MANAGER: ROB WILLIAMS, PLA DESIGNED BY: REW CHECKED BY: REW <b>SHEET NUMBER</b> L100	





FINISH LEGEND	
FCP - AW	FIBER CEMENT PANEL - ARCTIC WHITE
FCP - RE	FIBER CEMENT PANEL - RICH ESPRESSO
FCLS - PG	FIBER CEMENT LAP SIDING - PEARL GREY
FCLS - AW	FIBER CEMENT LAP SIDING - ARCTIC WHITE
BRK - BD	BLACK DIAMOND BRICK VENEER
WDMS - CH	WOOD METAL SIDING - DARK CHERRY



1 SOUTH ELEVATION - PHASE 1  
3/32" = 1'-0"



2 NORTH ELEVATION - PHASE 1  
3/32" = 1'-0"

**DIMENSION**   
Madison Design Group

architecture · interior design · planning  
6515 Grand Teton Plaza, Suite 120, Madison, Wisconsin 53719  
p608.829.4444 f608.829.4445 dimensionmadison.com

**A2.0**  
**MAYFAIR 2**

FOUNDRY WAY, WAUWATOSA, WI

CONCEPT ELEVATIONS

02/11/2025

FINISH LEGEND	
FCP - AW	FIBER CEMENT PANEL - ARCTIC WHITE
FCP - RE	FIBER CEMENT PANEL - RICH ESPRESSO
FCLS - PG	FIBER CEMENT LAP SIDING - PEARL GREY
FCLS - AW	FIBER CEMENT LAP SIDING - ARCTIC WHITE
BRK - BD	BLACK DIAMOND BRICK VENEER
WDMS - CH	WOOD METAL SIDING - DARK CHERRY



2 SOUTH WEST ELEVATION - PHASE 2  
3/32" = 1'-0"



1 NORTH EAST ELEVATION - PHASE 2  
3/32" = 1'-0"



FINISH LEGEND	
FCP - AW	FIBER CEMENT PANEL - ARCTIC WHITE
FCP - RE	FIBER CEMENT PANEL - RICH ESPRESSO
FCLS - PG	FIBER CEMENT LAP SIDING - PEARL GREY
FCLS - AW	FIBER CEMENT LAP SIDING - ARCTIC WHITE
BRK - BD	BLACK DIAMOND BRICK VENEER
WDMS - CH	WOOD METAL SIDING - DARK CHERRY

**2 SOUTH EAST CORNER ELEVATION**  
3/32" = 1'-0"



**1 NORTH WEST CORNER ELEVATION - PHASE 2**  
3/32" = 1'-0"



**3 WEST CORNER ELEVATION - PHASE 1**  
3/32" = 1'-0"



NORTH EAST VIEW



SOUTHWEST VIEW

**Signage**  
24" illuminated channel letters

**XXXX Signage**  
6" flat cut aluminum, painted white, located on canopy over entrance

**XXXX Signage**  
6" flat cut aluminum, painted white, located on canopy over entrance

**Ground Directional**  
5'h x 3'w, Non-lit

**Signage**  
24" illuminated channel letters

**LIGHTING SCHEDULE**

Schedule	Symbol	Label	QTY	Manufacturer	Catalog	REVISED
A1	[Symbol]	A1	2	COOPER LIGHTING SOLUTIONS - LUMINA (FORMERLY BAYCON)	REV-F-PAL-740-U-T28	8/7/04
A2	[Symbol]	A2	2	COOPER LIGHTING SOLUTIONS - LUMINA (FORMERLY BAYCON)	REV-F-PAL-740-U-T48	8/7/04
B	[Symbol]	B	8	COOPER LIGHTING SOLUTIONS - LUMINA (FORMERLY BAYCON)	REV-F-PAL-740-U-T28	3/7/04
C	[Symbol]	C	8	COOPER LIGHTING SOLUTIONS - LUMINA (FORMERLY BAYCON)	REV-F-PAL-740-U-T23	8/7/04
D	[Symbol]	D	1	COOPER LIGHTING SOLUTIONS - LUMINA (FORMERLY BAYCON)	REV-F-PAL-740-U-T20	8/30/04
E	[Symbol]	E	4	COOPER LIGHTING SOLUTIONS - LUMINA (FORMERLY BAYCON)	REV-F-PAL-740-U-T48	8/30/04
F	[Symbol]	F	3	COOPER LIGHTING SOLUTIONS - LUMINA (FORMERLY BAYCON)	REV-F-PAL-740-U-T42	8/30/04
G	[Symbol]	G	2	COOPER LIGHTING SOLUTIONS - LUMINA (FORMERLY BAYCON)	REV-F-PAL-740-U-T48	8/7/04

PARCEL NO.	
ANALYZED AREA	
NUMBER OF PARKING SPACES	
SURFACE	
STANDARD	
ACCESSIBLE	
TOTAL SURFACE	
UNDERGROUND	
TOTAL UNDERGROUND	
NUMBER OF BICYCLE ST	
SITE COVERAGE ANALYSIS	
EXISTING INFRASTRUCTURE	
EXISTING PERMITS	
PROPOSED PARKING	
PROPOSED BUILDING	
PROPOSED INFRASTRUCTURE	
PROPOSED PERMITS	
PROPOSED FEES	
PROPOSED ON VAL	
ALLOWABLE ON VAL	
ESTIMATED AREA	

**MODEL**

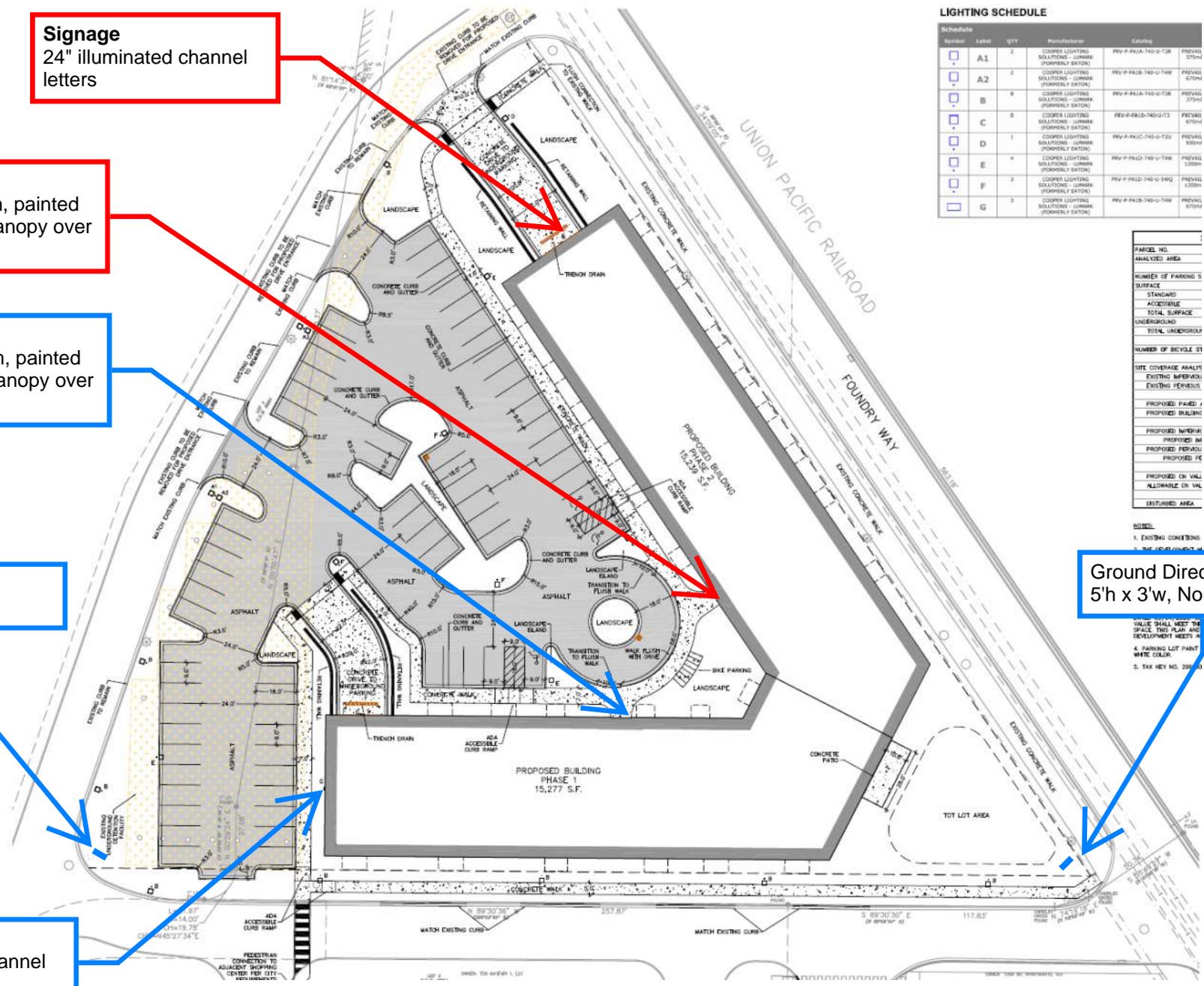
1. EXISTING CONDITIONS  
2. PROPOSED CONDITIONS

3. THE USER SHALL MEET THE SPACE, TIME, PLAN AND DEVELOPMENT NEEDS

4. PARKING LOT PAINT WHITE COLOR

5. TAX KEY NO. 200-0

**Ground Directional**  
5'h x 3'w, Non-lit



**Client**

**Project**

- A - Channel Letters
- B - Channel Letters
- C - Vinyl Graphics
- D - Vinyl Banner

**Consultant**     **Design Art**  
Kyle Sanger     Chris Clark

**Channel Letter Specifications**

- Face-Lit Channel Letters
- Painted to Match Building

**Area**

- 38.66 sqft

**Color Key**

- ① ■ SW 9570 Iron Clad
- ② □ White Face-Lit
- ③ □
- ④ □
- ⑤ □

**Job Number**

**128219 A**

**Creation Date**

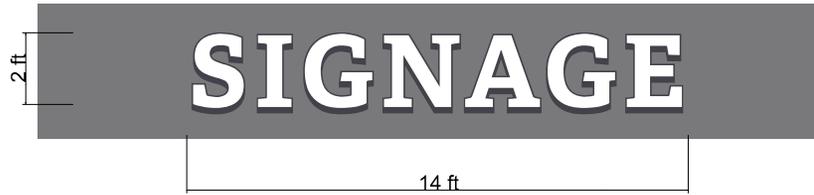
2-3-2025

**Revision Date**

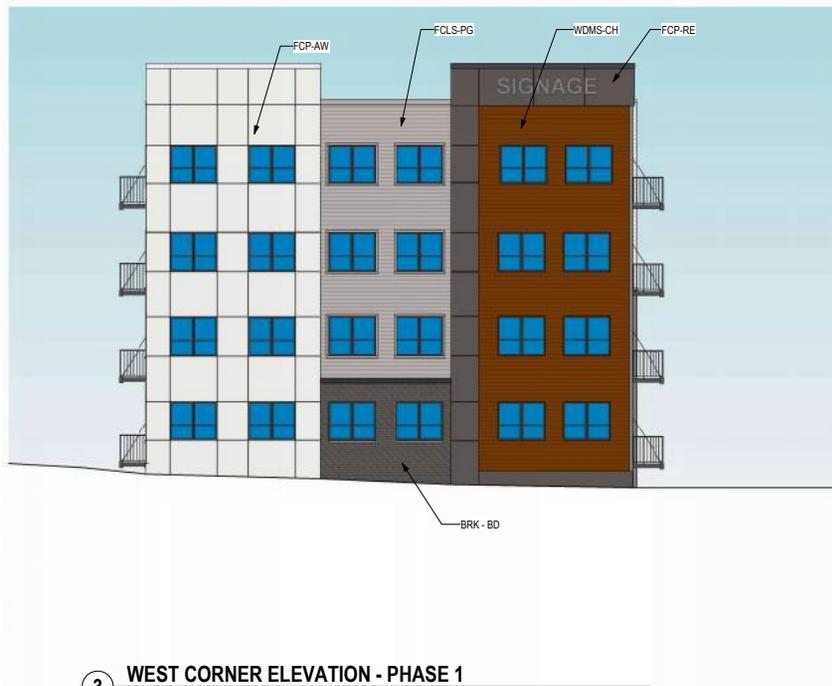
**Revision Number**

**File Path**

C:\Users\Clark\La Crosse Sign Company\Job Files - Documents\T\The Oxford and The Regent\WAWATOSA\125290-Building Letters and Door Vinyl\Design



Face-Lit Channel Letters  
Returns and Trim Cap  
to Match Building



③ WEST CORNER ELEVATION - PHASE 1

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_ Landlord: \_\_\_\_\_ Date: \_\_\_\_\_

\*Colors on sketch are only a representation, actual color of finished product may differ from this sketch.

\*To make the best use of standard sized materials and control costs the size of the finished product may vary slightly.



Face-Lit Channel Letters  
Returns and Trim Cap  
to Match Building



1 NORTH WEST CORNER ELEVATION - PHASE 2

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_ Landlord: \_\_\_\_\_ Date: \_\_\_\_\_

\*Colors on sketch are only a representation, actual color of finished product may differ from this sketch.  
\*To make the best use of standard sized materials and control costs the size of the finished product may vary slightly.

**La Crosse Sign Group**  
lacrossesign.com

1450 Oak Forest Drive Onalaska, WI 54650 608-781-1450  
2242 Mustang Way Madison, WI 53718 608-222-5353  
2502 Melby Street Eau Claire, WI 54703 715-835-6189

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**Client**

**Project**

- A - Channel Letters
- B - Channel Letters
- C - Vinyl Graphics
- D - Aluminum Address Numbers

**Consultant Design Art**

Kyle Sanger Chris Clark

**Channel Letter Specifications**

- Face-Lit Channel Letters
- Painted to Match Building

**Area**

- 39.5 sqft

**Color Key**

- 1 ■ SW 9570 Iron Clad
- 2 □ White Face-Lit
- 3 □
- 4 □
- 5 □

**Job Number**

128219 B

**Creation Date**

2-3-2025

**Revision Date**

**Revision Number**

**File Path**

C:\Users\ClarkC\La Crosse Sign Company\Job Files - Documents\T\The Oxford and The Regent\WAWATOSA\125290-Building Letters and Door Vinyl\Design

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**Client**

**Project**

- A - Channel Letters
- B - Channel Letters
- C - Post & Panel Directional Signs
- D - Aluminum Address Numbers

**Consultant**      **Design Art**  
Kyle Sanger      Chris Clark

**Post and Panel Specifications**

- 3M Vinyl Lettering
- Aluminum Construction
- Painted to Match Building
- Direct Embed

**Area**

-

**Color Key**

- 1  White - 10
- 2  SW 9570 Iron Clad
- 3
- 4
- 5

**Job Number**

**128219 C**

**Creation Date**

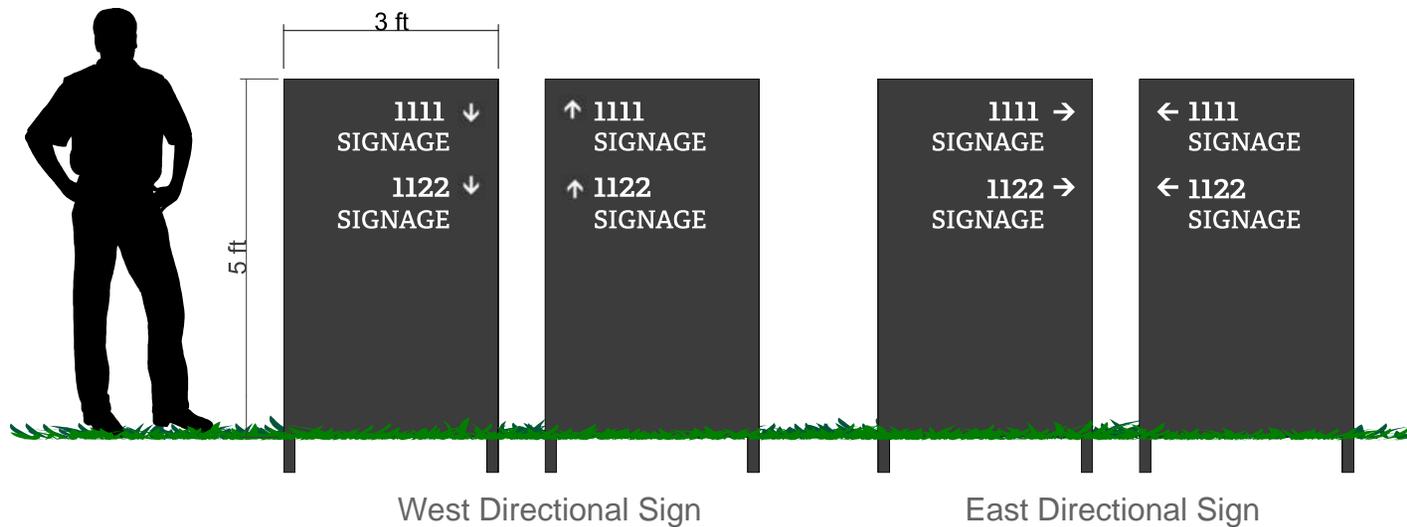
2-3-2025

**Revision Date**

**Revision Number**

**File Path**

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Approved by: \_\_\_\_\_ Date: \_\_\_\_\_ Landlord: \_\_\_\_\_ Date: \_\_\_\_\_

\*Colors on sketch are only a representation, actual color of finished product may differ from this sketch.  
\*To make the best use of standard sized materials and control costs the size of the finished product may vary slightly.

**Client**

**Project**

- A - Channel Letters
- B - Channel Letters
- C - Post & Panel Directional Signs
- D - Aluminum Address Numbers

**Consultant**     **Design Art**  
Kyle Sanger     Chris Clark

**Address Number Specifications**

- Flat Cut and Painted Aluminum
- Stud Mounted Flush

**Area**

**Color Key**

- 1  White
- 2
- 3
- 4
- 5

**Job Number**

**128219 D**

**Creation Date**

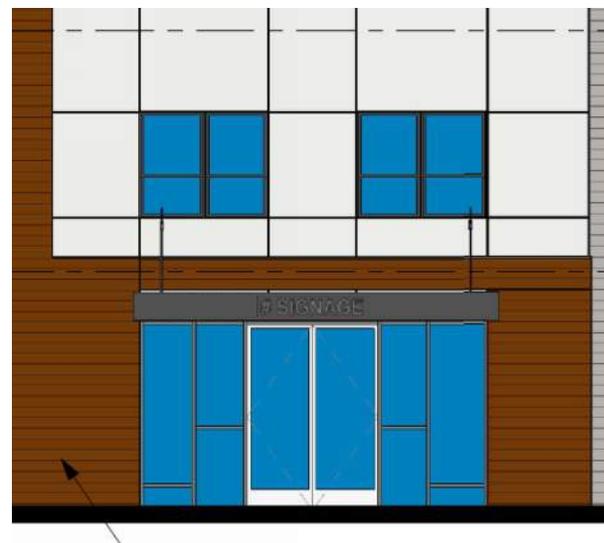
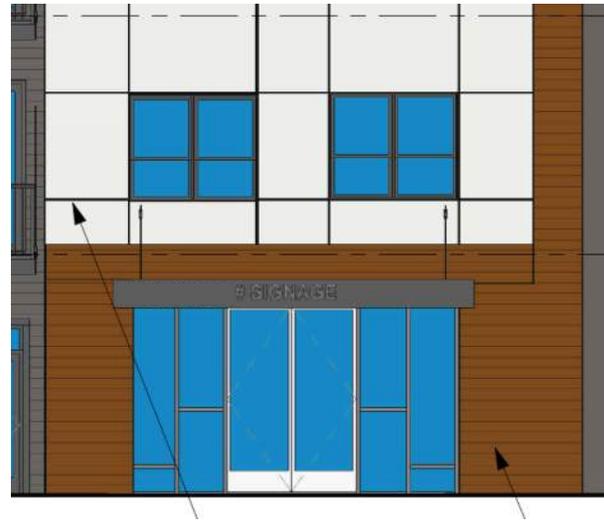
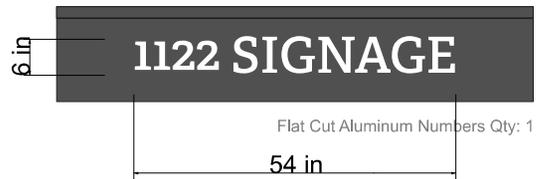
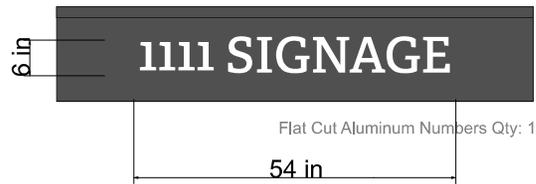
2-3-2025

**Revision Date**

**Revision Number**

**File Path**

C:\Users\Clark\La Crosse Sign Company\Job Files - Documents\The Oxford and The Regent\WAWATOSA\125290-Building Letters and Door Vinyl\Design



Approved by: \_\_\_\_\_ Date: \_\_\_\_\_ Landlord: \_\_\_\_\_ Date: \_\_\_\_\_

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\*To make the best use of standard sized materials and control costs the size of the finished product may vary slightly.



Phone: (262) 790-8400  
Fax: (262) 790-5555  
2030 South 116th Street  
West Allis, WI 53227  
www.HEIN.com

# 2025

## LIGHTING DEPARTMENT

# Drawing Transmittal Letter

TO

JOB NAME

CUSTOMER

The order will not be scheduled for production until receipt of approval drawings with written release instructions. Based on information supplied with your order, these drawings represent our interpretation of your requirements. Please review these drawings for both accuracy and content. Should you find any discrepancies, please indicate necessary corrections and return marked prints for release or submittal.

Freight Terms: By signing this letter (below) the purchasing party is aware of possible freight charges that may occur during this project. These charges are the responsibility of the purchasing party. Hein Electric Supply Company can provide written estimates upon request.

The following drawings are being submitted for APPROVAL:

SIGNATURE FOR APPROVAL

DATE

<b>Project</b>	MSP WAUWATOSA NORTH	<b>Catalog #</b>	PRV-P-PA1A-740-U-T2R-SA-XX	<b>Type</b>	A1
<b>Prepared by</b>		<b>Notes</b>		<b>Date</b>	



# Lumark

## Prevail Discrete LED

Area / Site Luminaire

### Product Features



### Product Certifications



### Interactive Menu

- Ordering Information [page 2](#)
- Mounting Details [page 3, 4](#)
- Optical Configurations [page 5](#)
- Product Specifications [page 5](#)
- Energy and Performance Data [page 6](#)
- Control Options [page 8](#)

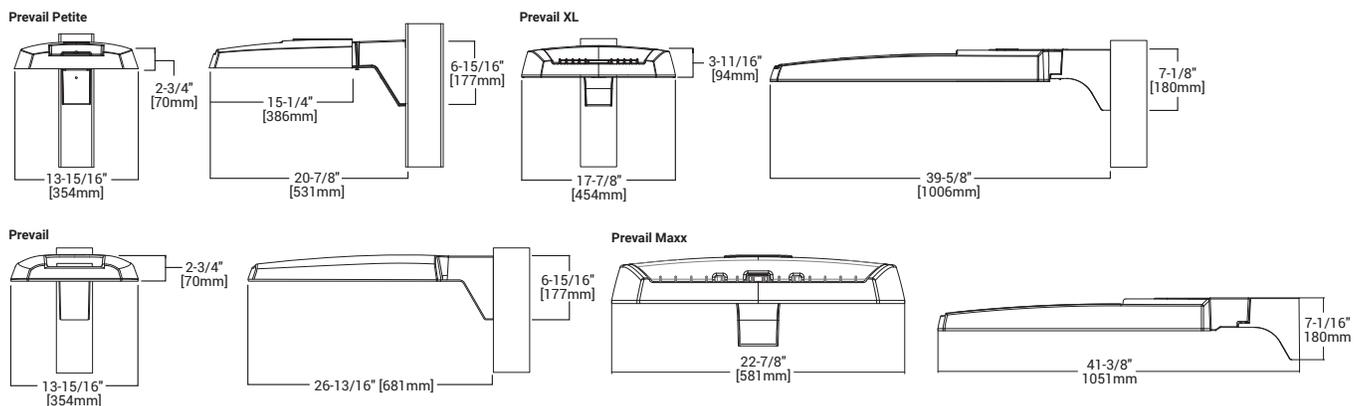
### Quick Facts

- Direct-mounted discrete light engine for improved optical uniformity and visual comfort
- Lumen packages range from 4,300 - 68,000 nominal lumens (30W - 550W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 157 lumens per watt
- Standard universal quick mount arm with universal drill pattern

### Connected Systems

- WaveLinx PRO Wireless
- WaveLinx LITE Wireless

### Dimensional Details



**NOTES:**  
 1. Visit <https://www.designlights.org/search/> to confirm qualification. Not all product variations are DLC qualified.  
 2. IDA Certified for 3000K CCT and warmer only.

Ordering Information

SAMPLE NUMBER: PRV-XL-PA4B-740-U-T4W-BZ

Product Family <sup>1,2</sup>	Light Engine		Color Temperature	Voltage	Distribution	Mounting (Included)	Finish
	Configuration	Drive Current <sup>4</sup>					
<b>PRV-P</b> =Prevail Petite <b>BAA-PRV-P</b> =Prevail Petite BAA Buy American Act Compliant <sup>3</sup> <b>TAA-PRV-P</b> =Prevail Petite TAA Trade Agreements Act Compliant <sup>3</sup>	<b>PA1</b> =1 Panel, 24 LED Rectangle	<b>A</b> =400mA Nominal <b>B</b> =700mA Nominal <b>C</b> =950mA Nominal <b>D</b> =1200mA Nominal	<b>740</b> =70CRI, 4000K <b>730</b> =70CRI, 3000K <b>750</b> =70CRI, 5000K <b>8540</b> =85CRI, 4000K	<b>U</b> =Universal, 120-277V <b>H</b> =High Voltage, 347-480V 1=120V 2=208V 3=240V 4=277V 8=480V <sup>5</sup> 9=347V <b>DV</b> =DuraVolt, 277-480V <sup>5,6</sup>	<b>T2R</b> =Type II Roadway <b>T2U</b> =Type II Urban <b>T3</b> =Type III <b>T4W</b> =Type IV Wide <b>5WQ</b> =Type V Square Wide	<b>SA</b> =QM Standard Versatile Arm <b>MA</b> =QM Mast Arm <b>FMA</b> =Fixed Mast Arm <sup>27</sup> <b>WM</b> =QM Wall Mount Arm <b>ADJA-WM</b> = Adjustable Arm - Wall Mount <sup>29</sup> <b>ADJA</b> =Adjustable Arm - Pole Mount <sup>29</sup> <b>ADJS</b> =Adjustable Arm - Slipfitter, 3" vertical tenon <sup>29</sup> <b>SP2</b> =Adjustable Arm - Slipfitter, 2 3/8" vertical tenon <sup>27, 29</sup>	<b>AP</b> =Grey <b>BZ</b> =Bronze <b>BK</b> =Black <b>DP</b> =Dark Platinum <b>GM</b> =Graphite <b>Metallic</b> <b>WH</b> =White
<b>PRV</b> =Prevail <b>BAA-PRV</b> =Prevail BAA Buy American Act Compliant <sup>3</sup> <b>TAA-PRV</b> =Prevail TAA Trade Agreements Act Compliant <sup>3</sup>	<b>PA1</b> =1 Panel, 24 LED Rectangle <b>PA2</b> =2 Panels, 48 LED Rectangles	<b>A</b> =700mA Nominal <b>B</b> =950mA Nominal					
<b>PRV-XL</b> =PRV XL <b>BAA-PRV-XL</b> =Prevail XL BAA Buy American Act Compliant <sup>3</sup> <b>TAA-PRV-XL</b> =Prevail XL TAA Trade Agreements Act Compliant <sup>3</sup>	<b>PA3</b> =3 Panels, 72 LED Rectangles <b>PA4</b> =4 Panels, 96 LED Rectangles	<b>A</b> =750mA Nominal <b>B</b> =950mA Nominal					
<b>PRV-M</b> =Prevail Maxx <b>BAA-PRV-M</b> =Prevail Maxx BAA Buy American Act Compliant <sup>3</sup> <b>TAA-PRV-M</b> =Prevail Maxx TAA Trade Agreements Act Compliant <sup>3</sup>	<b>PA6</b> = 6 Panels, 144 LED Rectangles	<b>A</b> =600mA Nominal <b>B</b> =800mA Nominal <b>C</b> =1000mA Nominal <b>D</b> =1200mA Nominal					
<b>Options (Add as Suffix)</b>				<b>Accessories (Order Separately) <sup>20,21</sup></b>			
<b>10K</b> =10kV UL 1449 Fused Surge Protective Device <b>20MSP</b> =20kV MOV Surge Protective Device <b>20K</b> =20kV UL 1449 Fused Surge Protective Device <b>F</b> =Single Fuse (Used with Voltages 120, 277 or 347V) <b>FF</b> =Double Fuse (Used with Voltages 208, 240 or 480V) <b>FADC</b> =Field Adjustable Dimming Controller <sup>30</sup> <b>L90</b> =Optics Rotated 90° Left <b>R90</b> =Optics Rotated 90° Right <b>CC</b> =Coastal Construction finish <sup>9</sup> <b>HSS</b> =House Side Shield (Factory Installed) <sup>7</sup> <b>HA</b> =50°C High Ambient Temperature <sup>8</sup> <b>PR</b> =NEMA 3-PIN Twistlock Photocontrol Receptacle <sup>10</sup> <b>PR7</b> =NEMA 7-PIN Twistlock Photocontrol Receptacle <sup>10</sup> <b>MS7/DIM-L08</b> =Motion Sensor for Dimming Operation, Up to 8' Mounting Height <sup>11,12,13</sup> <b>MS7/DIM-L20</b> =Motion Sensor for Dimming Operation, 9' - 20' Mounting Height <sup>11,12,13</sup> <b>MS7/DIM-L40</b> =Motion Sensor for Dimming Operation, 21' - 40' Mounting Height <sup>11,12,13</sup> <b>SPB1</b> =Motion Sensor for Dimming Operation, BLE Interface, Up to 8' Mounting Height <sup>11,14</sup> <b>SPB2</b> =Motion Sensor for Dimming Operation, BLE Interface, 8' - 20' Mounting Height <sup>11,14,27,28</sup> <b>SPB4</b> =Motion Sensor for Dimming Operation, BLE Interface, 21' - 40' Mounting Height <sup>11,14,28</sup>		<b>WPS2XX</b> =Wavelinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting Height <sup>11,12,15,16,17</sup> <b>WPS4XX</b> =Wavelinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting Height <sup>11,12,15,16,17</sup> <b>WLS2XX</b> =WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting <sup>11,12,15,16,17</sup> <b>WLS4XX</b> =WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting <sup>11,12,15,16,17</sup> <b>(See Table Below)</b> =LumenSafe Integrated Network Security Camera <sup>18,19</sup>		<b>PRVSA-XX</b> =Standard Arm Mounting Kit <sup>22</sup> <b>PRVMA-XX</b> =Mast Arm Mounting Kit <sup>22</sup> <b>PRVWM-XX</b> =Wall Mount Kit <sup>22</sup> <b>PRVADJA-XX</b> =Adjustable Arm - Pole Mount Kit <sup>22</sup> <b>PRVADJS-XX</b> =Adjustable Arm - Slipfitter Kit <sup>22</sup> <b>PRVADJA-WM-XX</b> =Adjustable Arm - Wall Mount Kit <sup>22</sup> <b>PRVXLSA-XX</b> =Standard Arm Mounting Kit <sup>28</sup> <b>PRVXLSMA-XX</b> =Mast Arm Mounting Kit <sup>28</sup> <b>PRVXLWM-XX</b> =Wall Mount Kit <sup>28</sup> <b>PRV-XL-ADJA-XX</b> =Adjustable Arm - Pole Mount Kit <sup>28</sup> <b>PRV-XL-ADJA-WM-XX</b> = Adjustable Arm - Wall Mount Kit <sup>28</sup> <b>PRV-XL-ADJS-XX</b> = Adjustable Arm - Slipfitter Kit <sup>28</sup> <b>PRV-M-ADJA-XX</b> =Adjustable Arm - Pole Mount Kit <sup>27</sup> <b>PRV-M-ADJS-XX</b> =Adjustable Arm - Slipfitter Kit <sup>27</sup> <b>PRV-M-ADJA-WM-XX</b> =Adjustable Arm - Wall Mount Kit <sup>27</sup> <b>MA1010-XX</b> =Single Tenon Adapter for 3-1/2" O.D. Tenon <b>MA1011-XX</b> =2@180° Tenon Adapter for 3-1/2" O.D. Tenon		<b>MA1017-XX</b> =Single Tenon Adapter for 2-3/8" O.D. Tenon <b>MA1018-XX</b> =2@180° Tenon Adapter for 2-3/8" O.D. Tenon <b>SRA238</b> =Tenon Adapter from 3" to 2-3/8" <b>PRV/DIS-FDV</b> =Full Drop Visor <sup>23</sup> <b>PRVXL/DIS-FDV</b> =Full Drop Visor <sup>18</sup> <b>HSS-VP</b> =House Side Shield Kit, Vertical Panel <sup>7,24</sup> <b>HSS-HP</b> =House Side Shield Kit, Horizontal Panel <sup>7,24</sup> <b>VGS-ARCH</b> = Panel Drop Shield, Short <b>VGL-ARCH</b> = Panel Drop Shield, Long <b>OA/RA1013</b> =Photocontrol Shorting Cap <b>OA/RA1014</b> =NEMA Photocontrol - 120V <b>OA/RA1016</b> =NEMA Photocontrol - Multi-Tap 105-285V <b>OA/RA1201</b> =NEMA Photocontrol - 347V <b>OA/RA1027</b> =NEMA Photocontrol - 480V <b>FSIR-100</b> =Wireless Configuration Tool for Occupancy Sensor <sup>25</sup> <b>WOLC-7P-10A</b> =WaveLinx Outdoor Control Module (7-PIN) <sup>26</sup>	
<b>NOTES:</b> 1. DesignLights Consortium® Qualified. Refer to <a href="http://www.designlights.org">www.designlights.org</a> Qualified Products List under Family Models for details. 2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications. Refer to installation instructions and pole white paper WPS13001EN for additional support information. 3. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to <a href="http://DOMESTIC.PREFERENCES">DOMESTIC.PREFERENCES</a> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 4. Nominal drive currents shown here. For actual drive current by configuration, refer to Power and Lumens tables. 5. 480V not to be used with ungrounded or impedance grounded systems. 6. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit <a href="http://www.signify.com/duravolt">www.signify.com/duravolt</a> for more information. 7. House Side Shield not for use with 5WQ distribution. 8. Not available with PATD light engine in Petite housing (PRV-P). 9. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 10. If High Voltage (H) or DuraVolt (DV) is specified, use a photocontrol that matches the input voltage used. 11. Controls system is not available in combination with a photocontrol receptacle (PR or PR7) or another controls system (MS SPB). 12. Option not available with High Voltage (H) or DuraVolt (DV). Must specify Universal (U), 347V (9), or 480V (8) voltage. 13. Utilizes the Wattstopper sensor FSP-211. Sensor color white unless specified otherwise via PDR. To field-configure, order FSIR-100 accessory separately. 14. Utilizes the Wattstopper sensor FSP-3XX series. Sensor color determined by product finish. See Sensor Color Reference Table. Field-configures via mobile application. See Controls section for details. 15. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F). 16. In order for the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more WaveLinx application information. 17. Replace XX with sensor color (WH, BZ or BK). 18. Only available in PRV-XL configurations. 19. Not available with High Voltage (H, DV, 8 or 9) or HA options. Consult LumenSafe system product pages for additional details and compatibility information. 20. Replace XX with paint color. 21. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 22. Not for use with PRV-XL or PRV-M configurations. 23. Only for use with PRV. Not applicable to PRV-M, PRV-XL, or PRV-P. 24. Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 3, 4, or 6). Refer to House Side Shield reference table for details. 25. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information. 26. Requires 7-PIN NEMA twistlock photocontrol receptacle (PR7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS or LWR). Only for use at 120-347V. 27. Only available for PRV-M configurations. 28. Only for use with PRV-XL. 29. Fixed for PRV-M. 30. Cannot be used with PR7 or other motion response control options.							

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul
<b>L</b> =LumenSafe Technology 	<b>H</b> =Dome Camera, High Res <b>Z</b> =Dome Camera, Remote PTZ	<b>C</b> =Cellular, Customer Installed SIM Card <b>A</b> =Cellular, Factory Installed AT&T SIM Card <b>V</b> =Cellular, Factory Installed Verizon SIM Card <b>S</b> =Cellular, Factory Installed Sprint SIM Card <b>E</b> =Ethernet Networking

<b>Project</b>	MSP WAUWATOSA NORTH	<b>Catalog #</b>	PRV-P-PA1B-740-U-T4W-SA-XX	<b>Type</b>	A2
<b>Prepared by</b>		<b>Notes</b>		<b>Date</b>	



# Lumark

## Prevail Discrete LED

Area / Site Luminaire

### Product Features



### Product Certifications



### Interactive Menu

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- Optical Configurations [page 5](#)
- Product Specifications [page 5](#)
- Energy and Performance Data [page 6](#)
- Control Options [page 8](#)

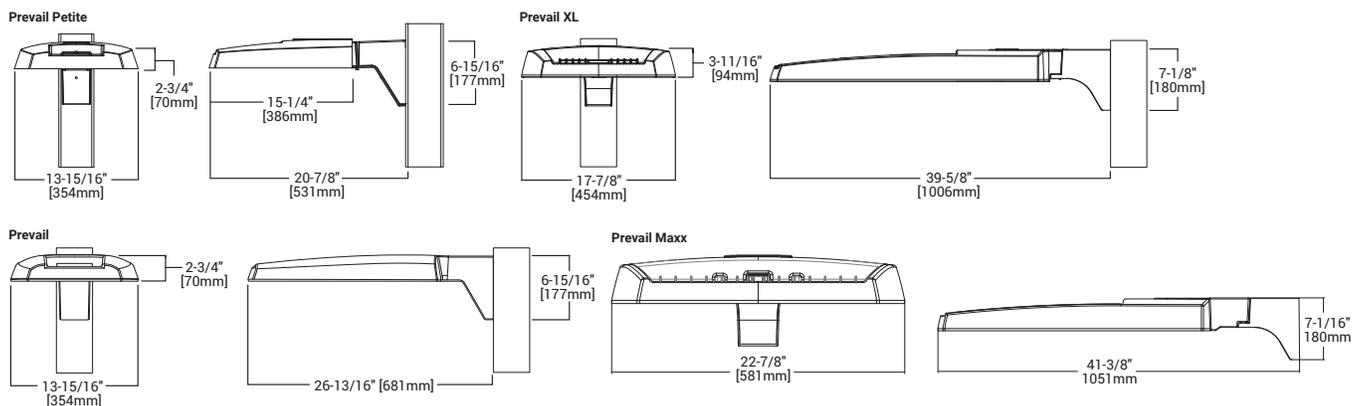
### Quick Facts

- Direct-mounted discrete light engine for improved optical uniformity and visual comfort
- Lumen packages range from 4,300 - 68,000 nominal lumens (30W - 550W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 157 lumens per watt
- Standard universal quick mount arm with universal drill pattern

### Connected Systems

- WaveLinx PRO Wireless
- WaveLinx LITE Wireless

### Dimensional Details



**NOTES:**  
 1. Visit <https://www.designlights.org/search/> to confirm qualification. Not all product variations are DLC qualified.  
 2. IDA Certified for 3000K CCT and warmer only.

Ordering Information

SAMPLE NUMBER: PRV-XL-PA4B-740-U-T4W-BZ

Product Family <sup>1,2</sup>	Light Engine		Color Temperature	Voltage	Distribution	Mounting (Included)	Finish		
	Configuration	Drive Current <sup>4</sup>							
<b>PRV-P</b> =Prevail Petite <b>BAA-PRV-P</b> =Prevail Petite BAA Buy American Act Compliant <sup>3</sup> <b>TAA-PRV-P</b> =Prevail Petite TAA Trade Agreements Act Compliant <sup>3</sup>	<b>PA1</b> =1 Panel, 24 LED Rectangle	<b>A</b> =400mA Nominal <b>B</b> =700mA Nominal <b>C</b> =950mA Nominal <b>D</b> =1200mA Nominal	<b>740</b> =70CRI, 4000K <b>730</b> =70CRI, 3000K <b>750</b> =70CRI, 5000K <b>8540</b> =85CRI, 4000K	<b>U</b> =Universal, 120-277V <b>H</b> =High Voltage, 347-480V 1=120V 2=208V 3=240V 4=277V 8=480V <sup>5</sup> 9=347V <b>DV</b> =DuraVolt, 277-480V <sup>5,6</sup>	<b>T2R</b> =Type II Roadway <b>T2U</b> =Type II Urban <b>T3</b> =Type III <b>T4W</b> =Type IV Wide <b>5WQ</b> =Type V Square Wide	<b>SA</b> =QM Standard Versatile Arm <b>MA</b> =QM Mast Arm <b>FMA</b> =Fixed Mast Arm <sup>27</sup> <b>WM</b> =QM Wall Mount Arm <b>ADJA-WM</b> = Adjustable Arm - Wall Mount <sup>29</sup> <b>ADJA</b> =Adjustable Arm - Pole Mount <sup>29</sup> <b>ADJS</b> =Adjustable Arm - Slipfitter, 3" vertical tenon <sup>29</sup> <b>SP2</b> =Adjustable Arm - Slipfitter, 2 3/8" vertical tenon <sup>27, 29</sup>	<b>AP</b> =Grey <b>BZ</b> =Bronze <b>BK</b> =Black <b>DP</b> =Dark Platinum <b>GM</b> =Graphite <b>Metallic</b> <b>WH</b> =White		
<b>PRV</b> =Prevail <b>BAA-PRV</b> =Prevail BAA Buy American Act Compliant <sup>3</sup> <b>TAA-PRV</b> =Prevail TAA Trade Agreements Act Compliant <sup>3</sup>	<b>PA1</b> =1 Panel, 24 LED Rectangle <b>PA2</b> =2 Panels, 48 LED Rectangles	<b>A</b> =700mA Nominal <b>B</b> =950mA Nominal							
<b>PRV-XL</b> =PRV XL <b>BAA-PRV-XL</b> =Prevail XL BAA Buy American Act Compliant <sup>3</sup> <b>TAA-PRV-XL</b> =Prevail XL TAA Trade Agreements Act Compliant <sup>3</sup>	<b>PA3</b> =3 Panels, 72 LED Rectangles <b>PA4</b> =4 Panels, 96 LED Rectangles	<b>A</b> =750mA Nominal <b>B</b> =950mA Nominal							
<b>PRV-M</b> =Prevail Maxx <b>BAA-PRV-M</b> =Prevail Maxx BAA Buy American Act Compliant <sup>3</sup> <b>TAA-PRV-M</b> =Prevail Maxx TAA Trade Agreements Act Compliant <sup>3</sup>	<b>PA6</b> = 6 Panels, 144 LED Rectangles	<b>A</b> =600mA Nominal <b>B</b> =800mA Nominal <b>C</b> =1000mA Nominal <b>D</b> =1200mA Nominal							
Options (Add as Suffix)			Accessories (Order Separately) <sup>20,21</sup>						
<b>10K</b> =10kV UL 1449 Fused Surge Protective Device <b>20MSP</b> =20kV MOV Surge Protective Device <b>20K</b> =20kV UL 1449 Fused Surge Protective Device <b>F</b> =Single Fuse (Used with Voltages 120, 277 or 347V) <b>FF</b> =Double Fuse (Used with Voltages 208, 240 or 480V) <b>FADC</b> =Field Adjustable Dimming Controller <sup>30</sup> <b>L90</b> =Optics Rotated 90° Left <b>R90</b> =Optics Rotated 90° Right <b>CC</b> =Coastal Construction finish <sup>9</sup> <b>HSS</b> =House Side Shield (Factory Installed) <sup>7</sup> <b>HA</b> =50°C High Ambient Temperature <sup>8</sup> <b>PR</b> =NEMA 3-PIN Twistlock Photocontrol Receptacle <sup>10</sup> <b>PR7</b> =NEMA 7-PIN Twistlock Photocontrol Receptacle <sup>10</sup> <b>MS7/DIM-L08</b> =Motion Sensor for Dimming Operation, Up to 8' Mounting Height <sup>11,12,13</sup> <b>MS7/DIM-L20</b> =Motion Sensor for Dimming Operation, 9' - 20' Mounting Height <sup>11,12,13</sup> <b>MS7/DIM-L40</b> =Motion Sensor for Dimming Operation, 21' - 40' Mounting Height <sup>11,12,13</sup> <b>SPB1</b> =Motion Sensor for Dimming Operation, BLE Interface, Up to 8' Mounting Height <sup>11,14</sup> <b>SPB2</b> =Motion Sensor for Dimming Operation, BLE Interface, 8' - 20' Mounting Height <sup>11,14,27,28</sup> <b>SPB4</b> =Motion Sensor for Dimming Operation, BLE Interface, 21' - 40' Mounting Height <sup>11,14,28</sup>			<b>WPS2XX</b> =Wavelinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting Height <sup>11,12,15,16,17</sup> <b>WPS4XX</b> =Wavelinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting Height <sup>11,12,15,16,17</sup> <b>WLS2XX</b> =WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting Height <sup>11,12,15,16,17</sup> <b>WLS4XX</b> =WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting Height <sup>11,12,15,16,17</sup> <b>(See Table Below)</b> =LumenSafe Integrated Network Security Camera <sup>18,19</sup>			<b>PRVSA-XX</b> =Standard Arm Mounting Kit <sup>22</sup> <b>PRVMA-XX</b> =Mast Arm Mounting Kit <sup>22</sup> <b>PRVWM-XX</b> =Wall Mount Kit <sup>22</sup> <b>PRVADJA-XX</b> =Adjustable Arm - Pole Mount Kit <sup>22</sup> <b>PRVADJS-XX</b> =Adjustable Arm - Slipfitter Kit <sup>22</sup> <b>PRVADJA-WM-XX</b> =Adjustable Arm - Wall Mount Kit <sup>22</sup> <b>PRVXLSA-XX</b> =Standard Arm Mounting Kit <sup>28</sup> <b>PRVXLSMA-XX</b> =Mast Arm Mounting Kit <sup>28</sup> <b>PRVXLWM-XX</b> =Wall Mount Kit <sup>28</sup> <b>PRVXL-ADJA-XX</b> =Adjustable Arm - Pole Mount Kit <sup>28</sup> <b>PRVXL-ADJA-WM-XX</b> = Adjustable Arm - Wall Mount Kit <sup>28</sup> <b>PRVXL-ADJS-XX</b> = Adjustable Arm - Slipfitter Kit <sup>28</sup> <b>PRV-M-ADJA-XX</b> =Adjustable Arm - Pole Mount Kit <sup>27</sup> <b>PRV-M-ADJS-XX</b> =Adjustable Arm - Slipfitter Kit <sup>27</sup> <b>PRV-M-ADJA-WM-XX</b> =Adjustable Arm - Wall Mount Kit <sup>27</sup> <b>MA1010-XX</b> =Single Tenon Adapter for 3-1/2" O.D. Tenon <b>MA1011-XX</b> =2@180° Tenon Adapter for 3-1/2" O.D. Tenon		<b>MA1017-XX</b> =Single Tenon Adapter for 2-3/8" O.D. Tenon <b>MA1018-XX</b> =2@180° Tenon Adapter for 2-3/8" O.D. Tenon <b>SRA238</b> =Tenon Adapter from 3" to 2-3/8" <b>PRV/DIS-FDV</b> =Full Drop Visor <sup>23</sup> <b>PRVXL/DIS-FDV</b> =Full Drop Visor <sup>18</sup> <b>HSS-VP</b> =House Side Shield Kit, Vertical Panel <sup>7,24</sup> <b>HSS-HP</b> =House Side Shield Kit, Horizontal Panel <sup>7,24</sup> <b>VGS-ARCH</b> = Panel Drop Shield, Short <b>VGL-ARCH</b> = Panel Drop Shield, Long <b>OA/RA1013</b> =Photocontrol Shorting Cap <b>OA/RA1014</b> =NEMA Photocontrol - 120V <b>OA/RA1016</b> =NEMA Photocontrol - Multi-Tap 105-285V <b>OA/RA1201</b> =NEMA Photocontrol - 347V <b>OA/RA1027</b> =NEMA Photocontrol - 480V <b>FSIR-100</b> =Wireless Configuration Tool for Occupancy Sensor <sup>25</sup> <b>WOLC-7P-10A</b> =WaveLinx Outdoor Control Module (7-PIN) <sup>26</sup>	
<b>NOTES:</b> 1. DesignLights Consortium® Qualified. Refer to <a href="http://www.designlights.org">www.designlights.org</a> Qualified Products List under Family Models for details. 2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications. Refer to installation instructions and pole white paper WPS13001EN for additional support information. 3. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to <a href="http://www.designlights.org">www.designlights.org</a> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 4. Nominal drive currents shown here. For actual drive current by configuration, refer to Power and Lumens tables. 5. 480V not to be used with ungrounded or impedance grounded systems. 6. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit <a href="http://www.signify.com/duravolt">www.signify.com/duravolt</a> for more information. 7. House Side Shield not for use with 5WQ distribution. 8. Not available with PATD light engine in Petite housing (PRV-P). 9. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 10. If High Voltage (H) or DuraVolt (DV) is specified, use a photocontrol that matches the input voltage used. 11. Controls system is not available in combination with a photocontrol receptacle (PR or PR7) or another controls system (MS SPB). 12. Option not available with High Voltage (H) or DuraVolt (DV). Must specify Universal (U), 347V (9), or 480V (8) voltage. 13. Utilizes the Wattstopper sensor FSP-211. Sensor color white unless specified otherwise via PDR. To field-configure, order FSIR-100 accessory separately. 14. Utilizes the Wattstopper sensor FSP-3XX series. Sensor color determined by product finish. See Sensor Color Reference Table. Field-configures via mobile application. See Controls section for details. 15. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F). 16. In order for the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more Wavelinx application information. 17. Replace XX with sensor color (WH, BZ or BK). 18. Only available in PRV-XL configurations. 19. Not available with High Voltage (H, DV, 8 or 9) or HA options. Consult LumenSafe system product pages for additional details and compatibility information. 20. Replace XX with paint color. 21. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 22. Not for use with PRV-XL or PRV-M configurations. 23. Only for use with PRV. Not applicable to PRV-M, PRV-XL, or PRV-P. 24. Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 3, 4, or 6). Refer to House Side Shield reference table for details. 25. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information. 26. Requires 7-PIN NEMA twistlock photocontrol receptacle (PR7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS or LWR). Only for use at 120-347V. 27. Only available for PRV-M configurations. 28. Only for use with PRV-XL. 29. Fixed for PRV-M. 30. Cannot be used with PR7 or other motion response control options.									

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul
<b>L</b> =LumenSafe Technology 	<b>H</b> =Dome Camera, High Res <b>Z</b> =Dome Camera, Remote PTZ	<b>C</b> =Cellular, Customer Installed SIM Card <b>A</b> =Cellular, Factory Installed AT&T SIM Card <b>V</b> =Cellular, Factory Installed Verizon SIM Card <b>S</b> =Cellular, Factory Installed Sprint SIM Card <b>E</b> =Ethernet Networking

<b>Project</b>	MSP WAUWATOSA NORTH	<b>Catalog #</b>	PRV-P-PA1A-740-U-T2R-SA-XX	<b>Type</b>	B
<b>Prepared by</b>		<b>Notes</b>		<b>Date</b>	



# Lumark

## Prevail Discrete LED

Area / Site Luminaire

### Product Features



### Product Certifications



### Interactive Menu

- Ordering Information [page 2](#)
- Mounting Details [page 3, 4](#)
- Optical Configurations [page 5](#)
- Product Specifications [page 5](#)
- Energy and Performance Data [page 6](#)
- Control Options [page 8](#)

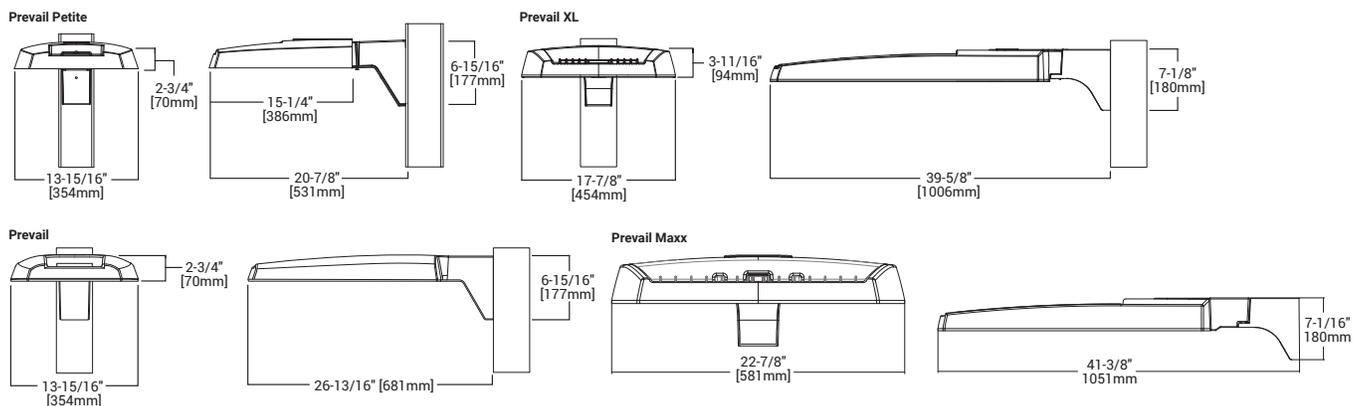
### Quick Facts

- Direct-mounted discrete light engine for improved optical uniformity and visual comfort
- Lumen packages range from 4,300 - 68,000 nominal lumens (30W - 550W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 157 lumens per watt
- Standard universal quick mount arm with universal drill pattern

### Connected Systems

- WaveLinx PRO Wireless
- WaveLinx LITE Wireless

### Dimensional Details



**NOTES:**  
 1. Visit <https://www.designlights.org/search/> to confirm qualification. Not all product variations are DLC qualified.  
 2. IDA Certified for 3000K CCT and warmer only.

Ordering Information

SAMPLE NUMBER: PRV-XL-PA4B-740-U-T4W-BZ

Product Family <sup>1,2</sup>	Light Engine		Color Temperature	Voltage	Distribution	Mounting (Included)	Finish
	Configuration	Drive Current <sup>4</sup>					
<b>PRV-P=Prevail Petite</b> <b>BAA-PRV-P=Prevail Petite BAA Buy American Act Compliant <sup>3</sup></b> <b>TAA-PRV-P=Prevail Petite TAA Trade Agreements Act Compliant <sup>3</sup></b>	<b>PA1=1 Panel, 24 LED Rectangle</b>	<b>A=400mA Nominal</b> <b>B=700mA Nominal</b> <b>C=950mA Nominal</b> <b>D=1200mA Nominal</b>	<b>740=70CRI, 4000K</b> <b>730=70CRI, 3000K</b> <b>750=70CRI, 5000K</b> <b>8540=85CRI, 4000K</b>	<b>U=Universal, 120-277V</b> <b>H=High Voltage, 347-480V</b> 1=120V 2=208V 3=240V 4=277V 8=480V <sup>5</sup> 9=347V <b>DV=DuraVolt, 277-480V <sup>5,6</sup></b>	<b>T2R=Type II Roadway</b> <b>T2U=Type II Urban</b> <b>T3=Type III</b> <b>T4W=Type IV Wide</b> <b>5WQ=Type V Square Wide</b>	<b>SA=QM Standard Versatile Arm</b> <b>MA=QM Mast Arm</b> <b>FMA=Fixed Mast Arm <sup>27</sup></b> <b>WM=QM Wall Mount Arm</b> <b>ADJA-WM= Adjustable Arm - Wall Mount <sup>29</sup></b> <b>ADJA=Adjustable Arm - Pole Mount <sup>29</sup></b> <b>ADJS=Adjustable Arm - Slipfitter, 3" vertical tenon <sup>29</sup></b> <b>SP2=Adjustable Arm - Slipfitter, 2 3/8" vertical tenon <sup>27, 29</sup></b>	<b>AP=Grey</b> <b>BZ=Bronze</b> <b>BK=Black</b> <b>DP=Dark Platinum</b> <b>GM=Graphite</b> <b>Metallic</b> <b>WH=White</b>
<b>PRV=Prevail</b> <b>BAA-PRV=Prevail BAA Buy American Act Compliant <sup>3</sup></b> <b>TAA-PRV=Prevail TAA Trade Agreements Act Compliant <sup>3</sup></b>	<b>PA1=1 Panel, 24 LED Rectangle</b> <b>PA2=2 Panels, 48 LED Rectangles</b>	<b>A=700mA Nominal</b> <b>B=950mA Nominal</b>					
<b>PRV-XL=PRV XL</b> <b>BAA-PRV-XL=Prevail XL BAA Buy American Act Compliant <sup>3</sup></b> <b>TAA-PRV-XL=Prevail XL TAA Trade Agreements Act Compliant <sup>3</sup></b>	<b>PA3=3 Panels, 72 LED Rectangles</b> <b>PA4=4 Panels, 96 LED Rectangles</b>	<b>A=750mA Nominal</b> <b>B=950mA Nominal</b>					
<b>PRV-M=Prevail Maxx</b> <b>BAA-PRV-M=Prevail Maxx BAA Buy American Act Compliant <sup>3</sup></b> <b>TAA-PRV-M=Prevail Maxx TAA Trade Agreements Act Compliant <sup>3</sup></b>	<b>PA6= 6 Panels, 144 LED Rectangles</b>	<b>A=600mA Nominal</b> <b>B=800mA Nominal</b> <b>C=1000mA Nominal</b> <b>D=1200mA Nominal</b>					
<b>Options (Add as Suffix)</b>				<b>Accessories (Order Separately) <sup>20,21</sup></b>			
<b>10K=10kV UL 1449 Fused Surge Protective Device</b> <b>20MSP=20kV MOV Surge Protective Device</b> <b>20K=20kV UL 1449 Fused Surge Protective Device</b> <b>F=Single Fuse (Used with Voltages 120, 277 or 347V)</b> <b>FF=Double Fuse (Used with Voltages 208, 240 or 480V)</b> <b>FADC=Field Adjustable Dimming Controller <sup>30</sup></b> <b>L90=Optics Rotated 90° Left</b> <b>R90=Optics Rotated 90° Right</b> <b>CC=Coastal Construction finish <sup>9</sup></b> <b>HSS=House Side Shield (Factory Installed) <sup>7</sup></b> <b>HA=50°C High Ambient Temperature <sup>8</sup></b> <b>PR=NEMA 3-PIN Twistlock Photocontrol Receptacle <sup>10</sup></b> <b>PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle <sup>10</sup></b> <b>MS7/DIM-L08=Motion Sensor for Dimming Operation, Up to 8' Mounting Height <sup>11,12,13</sup></b> <b>MS7/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height <sup>11,12,13</sup></b> <b>MS7/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height <sup>11,12,13</sup></b> <b>SPB1=Motion Sensor for Dimming Operation, BLE Interface, Up to 8' Mounting Height <sup>11,14</sup></b> <b>SPB2=Motion Sensor for Dimming Operation, BLE Interface, 8' - 20' Mounting Height <sup>11,14,27,28</sup></b> <b>SPB4=Motion Sensor for Dimming Operation, BLE Interface, 21' - 40' Mounting Height <sup>11,14,28</sup></b>		<b>WPS2XX=Wavelinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting Height <sup>11,12,15,16,17</sup></b> <b>WPS4XX=Wavelinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting Height <sup>11,12,15,16,17</sup></b> <b>WLS2XX=WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting <sup>11,12,15,16,17</sup></b> <b>WLS4XX=WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting <sup>11,12,15,16,17</sup></b> <b>(See Table Below)=LumenSafe Integrated Network Security Camera <sup>18,19</sup></b>		<b>PRVSA-XX=Standard Arm Mounting Kit <sup>22</sup></b> <b>PRVMA-XX=Mast Arm Mounting Kit <sup>22</sup></b> <b>PRVWM-XX=Wall Mount Kit <sup>22</sup></b> <b>PRV-ADJA-XX=Adjustable Arm - Pole Mount Kit <sup>22</sup></b> <b>PRV-ADJS-XX=Adjustable Arm - Slipfitter Kit <sup>22</sup></b> <b>PRV-ADJA-WM-XX=Adjustable Arm - Wall Mount Kit <sup>22</sup></b> <b>PRVXLSA-XX=Standard Arm Mounting Kit <sup>28</sup></b> <b>PRVXLMA-XX=Mast Arm Mounting Kit <sup>28</sup></b> <b>PRVXLWM-XX=Wall Mount Kit <sup>28</sup></b> <b>PRV-XL-ADJA-XX=Adjustable Arm - Pole Mount Kit <sup>28</sup></b> <b>PRV-XL-ADJA-WM-XX= Adjustable Arm - Wall Mount Kit <sup>28</sup></b> <b>PRV-XL-ADJS-XX= Adjustable Arm - Slipfitter Kit <sup>28</sup></b> <b>PRV-M-ADJA-XX=Adjustable Arm - Pole Mount Kit <sup>27</sup></b> <b>PRV-M-ADJS-XX=Adjustable Arm - Slipfitter Kit <sup>27</sup></b> <b>PRV-M-ADJA-WM-XX=Adjustable Arm - Wall Mount Kit <sup>27</sup></b> <b>MA1010-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon</b> <b>MA1011-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon</b>		<b>MA1017-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon</b> <b>MA1018-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon</b> <b>SRA238=Tenon Adapter from 3" to 2-3/8"</b> <b>PRV/DIS-FDV=Full Drop Visor <sup>23</sup></b> <b>PRVXL/DIS-FDV=Full Drop Visor <sup>18</sup></b> <b>HSS-VP=House Side Shield Kit, Vertical Panel <sup>7,24</sup></b> <b>HSS-HP=House Side Shield Kit, Horizontal Panel <sup>7,24</sup></b> <b>VGS-ARCH= Panel Drop Shield, Short</b> <b>VGL-ARCH= Panel Drop Shield, Long</b> <b>OA/RA1013=Photocontrol Shorting Cap</b> <b>OA/RA1014=NEMA Photocontrol - 120V</b> <b>OA/RA1016=NEMA Photocontrol - Multi-Tap 105-285V</b> <b>OA/RA1201=NEMA Photocontrol - 347V</b> <b>OA/RA1027=NEMA Photocontrol - 480V</b> <b>FSIR-100=Wireless Configuration Tool for Occupancy Sensor <sup>25</sup></b> <b>WOLC-7P-10A=WaveLinx Outdoor Control Module (7-PIN) <sup>26</sup></b>	
<b>NOTES:</b> 1. DesignLights Consortium® Qualified. Refer to <a href="http://www.designlights.org">www.designlights.org</a> Qualified Products List under Family Models for details. 2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications. Refer to installation instructions and pole white paper WPS13001EN for additional support information. 3. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to <a href="http://www.designlights.org">DOMESTIC PREFERENCES</a> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 4. Nominal drive currents shown here. For actual drive current by configuration, refer to Power and Lumens tables. 5. 480V not to be used with ungrounded or impedance grounded systems. 6. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit <a href="http://www.signify.com/duravolt">www.signify.com/duravolt</a> for more information. 7. House Side Shield not for use with 5WQ distribution. 8. Not available with PATD light engine in Petite housing (PRV-P). 9. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 10. If High Voltage (H) or DuraVolt (DV) is specified, use a photocontrol that matches the input voltage used. 11. Controls system is not available in combination with a photocontrol receptacle (PR or PR7) or another controls system (MS SPB). 12. Option not available with High Voltage (H) or DuraVolt (DV). Must specify Universal (U), 347V (9), or 480V (8) voltage. 13. Utilizes the Wattstopper sensor FSP-211. Sensor color white unless specified otherwise via PDR. To field-configure, order FSIR-100 accessory separately. 14. Utilizes the Wattstopper sensor FSP-3XX series. Sensor color determined by product finish. See Sensor Color Reference Table. Field-configures via mobile application. See Controls section for details. 15. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F). 16. In order for the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more WaveLinx application information. 17. Replace XX with sensor color (WH, BZ or BK). 18. Only available in PRV-XL configurations. 19. Not available with High Voltage (H, DV, 8 or 9) or HA options. Consult LumenSafe system product pages for additional details and compatibility information. 20. Replace XX with paint color. 21. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 22. Not for use with PRV-XL or PRV-M configurations. 23. Only for use with PRV. Not applicable to PRV-M, PRV-XL, or PRV-P. 24. Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 3, 4, or 6). Refer to House Side Shield reference table for details. 25. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information. 26. Requires 7-PIN NEMA twistlock photocontrol receptacle (PR7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS or LWR). Only for use at 120-347V. 27. Only available for PRV-M configurations. 28. Only for use with PRV-XL. 29. Fixed for PRV-M. 30. Cannot be used with PR7 or other motion response control options.							

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul
L=LumenSafe Technology 	H=Dome Camera, High Res Z=Dome Camera, Remote PTZ	C=Cellular, Customer Installed SIM Card A=Cellular, Factory Installed AT&T SIM Card V=Cellular, Factory Installed Verizon SIM Card S=Cellular, Factory Installed Sprint SIM Card E=Ethernet Networking

<b>Project</b>	MSP WAUWATOSA NORTH	<b>Catalog #</b>	PRV-P-PA1B-740-U-T3-SA-XX	<b>Type</b>	C
<b>Prepared by</b>		<b>Notes</b>		<b>Date</b>	



# Lumark

## Prevail Discrete LED

Area / Site Luminaire

### Product Features



### Product Certifications



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- Optical Configurations [page 5](#)
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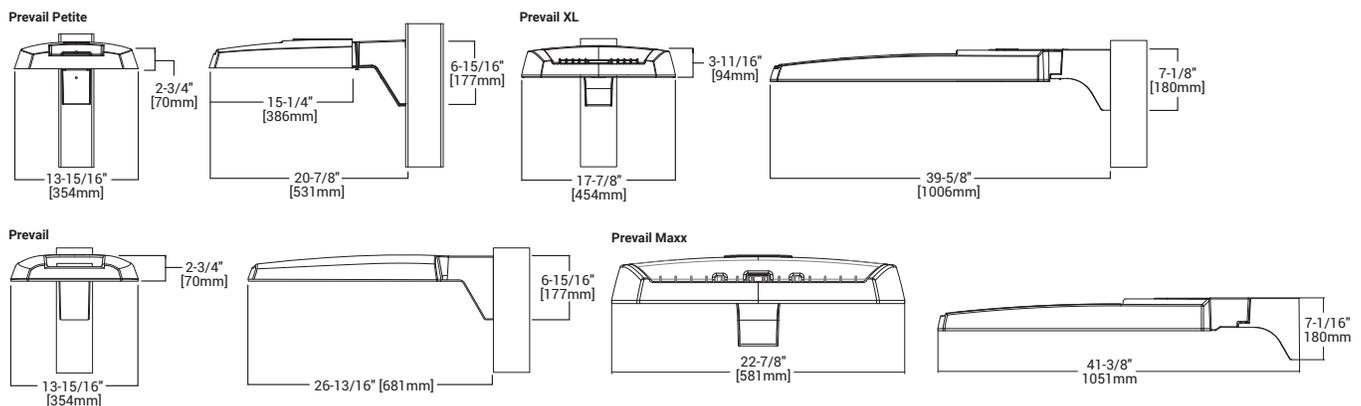
### Quick Facts

- Direct-mounted discrete light engine for improved optical uniformity and visual comfort
- Lumen packages range from 4,300 - 68,000 nominal lumens (30W - 550W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 157 lumens per watt
- Standard universal quick mount arm with universal drill pattern

### Connected Systems

- WaveLinx PRO Wireless
- WaveLinx LITE Wireless

### Dimensional Details



**NOTES:**  
 1. Visit <https://www.designlights.org/search/> to confirm qualification. Not all product variations are DLC qualified.  
 2. IDA Certified for 3000K CCT and warmer only.

Ordering Information

SAMPLE NUMBER: PRV-XL-PA4B-740-U-T4W-BZ

Product Family <sup>1,2</sup>	Light Engine		Color Temperature	Voltage	Distribution	Mounting (Included)	Finish
	Configuration	Drive Current <sup>4</sup>					
<b>PRV-P=Prevail Petite</b> <b>BAA-PRV-P=Prevail Petite BAA Buy American Act Compliant <sup>3</sup></b> <b>TAA-PRV-P=Prevail Petite TAA Trade Agreements Act Compliant <sup>3</sup></b>	<b>PA1=1 Panel, 24 LED Rectangle</b>	<b>A=400mA Nominal</b> <b>B=700mA Nominal</b> <b>C=950mA Nominal</b> <b>D=1200mA Nominal</b>	<b>740=70CRI, 4000K</b> <b>730=70CRI, 3000K</b> <b>750=70CRI, 5000K</b> <b>8540=85CRI, 4000K</b>	<b>U=Universal, 120-277V</b> <b>H=High Voltage, 347-480V</b> 1=120V 2=208V 3=240V 4=277V 8=480V <sup>5</sup> 9=347V <b>DV=DuraVolt, 277-480V <sup>5,6</sup></b>	<b>T2R=Type II Roadway</b> <b>T2U=Type II Urban</b> <b>T3=Type III</b> <b>T4W=Type IV Wide</b> <b>5WQ=Type V Square Wide</b>	<b>SA=QM Standard Versatile Arm</b> <b>MA=QM Mast Arm</b> <b>FMA=Fixed Mast Arm <sup>27</sup></b> <b>WM=QM Wall Mount Arm</b> <b>ADJA-WM= Adjustable Arm - Wall Mount <sup>29</sup></b> <b>ADJA=Adjustable Arm - Pole Mount <sup>29</sup></b> <b>ADJS=Adjustable Arm - Slipfitter, 3" vertical tenon <sup>29</sup></b> <b>SP2=Adjustable Arm - Slipfitter, 2 3/8" vertical tenon <sup>27, 29</sup></b>	<b>AP=Grey</b> <b>BZ=Bronze</b> <b>BK=Black</b> <b>DP=Dark Platinum</b> <b>GM=Graphite</b> <b>Metallic</b> <b>WH=White</b>
<b>PRV=Prevail</b> <b>BAA-PRV=Prevail BAA Buy American Act Compliant <sup>3</sup></b> <b>TAA-PRV=Prevail TAA Trade Agreements Act Compliant <sup>3</sup></b>	<b>PA1=1 Panel, 24 LED Rectangle</b> <b>PA2=2 Panels, 48 LED Rectangles</b>	<b>A=700mA Nominal</b> <b>B=950mA Nominal</b>					
<b>PRV-XL=PRV XL</b> <b>BAA-PRV-XL=Prevail XL BAA Buy American Act Compliant <sup>3</sup></b> <b>TAA-PRV-XL=Prevail XL TAA Trade Agreements Act Compliant <sup>3</sup></b>	<b>PA3=3 Panels, 72 LED Rectangles</b> <b>PA4=4 Panels, 96 LED Rectangles</b>	<b>A=750mA Nominal</b> <b>B=950mA Nominal</b>					
<b>PRV-M=Prevail Maxx</b> <b>BAA-PRV-M=Prevail Maxx BAA Buy American Act Compliant <sup>3</sup></b> <b>TAA-PRV-M=Prevail Maxx TAA Trade Agreements Act Compliant <sup>3</sup></b>	<b>PA6= 6 Panels, 144 LED Rectangles</b>	<b>A=600mA Nominal</b> <b>B=800mA Nominal</b> <b>C=1000mA Nominal</b> <b>D=1200mA Nominal</b>					
<b>Options (Add as Suffix)</b>				<b>Accessories (Order Separately) <sup>20,21</sup></b>			
<b>10K=10kV UL 1449 Fused Surge Protective Device</b> <b>20MSP=20kV MOV Surge Protective Device</b> <b>20K=20kV UL 1449 Fused Surge Protective Device</b> F=Single Fuse (Used with Voltages 120, 277 or 347V) FF=Double Fuse (Used with Voltages 208, 240 or 480V) <b>FADC=Field Adjustable Dimming Controller <sup>30</sup></b> L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right CC=Coastal Construction finish <sup>9</sup> HSS=House Side Shield (Factory Installed) <sup>7</sup> HA=50°C High Ambient Temperature <sup>8</sup> PR=NEMA 3-PIN Twistlock Photocontrol Receptacle <sup>10</sup> PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle <sup>10</sup> MS7/DIM-L08=Motion Sensor for Dimming Operation, Up to 8' Mounting Height <sup>11,12,13</sup> MS7/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height <sup>11,12,13</sup> MS7/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height <sup>11,12,13</sup> SPB1=Motion Sensor for Dimming Operation, BLE Interface, Up to 8' Mounting Height <sup>11,14</sup> SPB2=Motion Sensor for Dimming Operation, BLE Interface, 8' - 20' Mounting Height <sup>11,14,27,28</sup> SPB4=Motion Sensor for Dimming Operation, BLE Interface, 21' - 40' Mounting Height <sup>11,14,28</sup>		<b>WPS2XX=Wavelinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting Height <sup>11,12,15,16,17</sup></b> <b>WPS4XX=Wavelinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting Height <sup>11,12,15,16,17</sup></b> <b>WLS2XX=WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting <sup>11,12,15,16,17</sup></b> <b>WLS4XX=WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting <sup>11,12,15,16,17</sup></b> (See Table Below)=LumenSafe Integrated Network Security Camera <sup>18,19</sup>		<b>PRVSA-XX=Standard Arm Mounting Kit <sup>22</sup></b> <b>PRVMA-XX=Mast Arm Mounting Kit <sup>22</sup></b> <b>PRVWM-XX=Wall Mount Kit <sup>22</sup></b> <b>PRV-ADJA-XX=Adjustable Arm - Pole Mount Kit <sup>22</sup></b> <b>PRV-ADJS-XX=Adjustable Arm - Slipfitter Kit <sup>22</sup></b> <b>PRV-ADJA-WM-XX=Adjustable Arm - Wall Mount Kit <sup>22</sup></b> <b>PRVXLSA-XX=Standard Arm Mounting Kit <sup>28</sup></b> <b>PRVXLSMA-XX=Mast Arm Mounting Kit <sup>28</sup></b> <b>PRVXLWM-XX=Wall Mount Kit <sup>28</sup></b> <b>PRV-XL-ADJA-XX=Adjustable Arm - Pole Mount Kit <sup>28</sup></b> <b>PRV-XL-ADJA-WM-XX= Adjustable Arm - Wall Mount Kit <sup>28</sup></b> <b>PRV-XL-ADJS-XX= Adjustable Arm - Slipfitter Kit <sup>28</sup></b> <b>PRV-M-ADJA-XX=Adjustable Arm - Pole Mount Kit <sup>27</sup></b> <b>PRV-M-ADJS-XX=Adjustable Arm - Slipfitter Kit <sup>27</sup></b> <b>PRV-M-ADJA-WM-XX=Adjustable Arm - Wall Mount Kit <sup>27</sup></b> <b>MA1010-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon</b> <b>MA1011-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon</b>		<b>MA1017-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon</b> <b>MA1018-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon</b> <b>SRA238=Tenon Adapter from 3" to 2-3/8"</b> <b>PRV/DIS-FDV=Full Drop Visor <sup>23</sup></b> <b>PRVXL/DIS-FDV=Full Drop Visor <sup>18</sup></b> <b>HSS-VP=House Side Shield Kit, Vertical Panel <sup>7,24</sup></b> <b>HSS-HP=House Side Shield Kit, Horizontal Panel <sup>7,24</sup></b> <b>VGS-ARCH= Panel Drop Shield, Short</b> <b>VGL-ARCH= Panel Drop Shield, Long</b> <b>OA/RA1013=Photocontrol Shorting Cap</b> <b>OA/RA1014=NEMA Photocontrol - 120V</b> <b>OA/RA1016=NEMA Photocontrol - Multi-Tap 105-285V</b> <b>OA/RA1201=NEMA Photocontrol - 347V</b> <b>OA/RA1027=NEMA Photocontrol - 480V</b> <b>FSIR-100=Wireless Configuration Tool for Occupancy Sensor <sup>25</sup></b> <b>WOLC-7P-10A=WaveLinx Outdoor Control Module (7-PIN) <sup>26</sup></b>	
<b>NOTES:</b> 1. DesignLights Consortium® Qualified. Refer to <a href="http://www.designlights.org">www.designlights.org</a> Qualified Products List under Family Models for details. 2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications. Refer to installation instructions and pole white paper WPS13001EN for additional support information. 3. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to <a href="http://www.designlights.org">DOMESTIC PREFERENCES</a> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 4. Nominal drive currents shown here. For actual drive current by configuration, refer to Power and Lumens tables. 5. 480V not to be used with ungrounded or impedance grounded systems. 6. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit <a href="http://www.signify.com/duravolt">www.signify.com/duravolt</a> for more information. 7. House Side Shield not for use with 5WQ distribution. 8. Not available with PATD light engine in Petite housing (PRV-P). 9. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 10. If High Voltage (H) or DuraVolt (DV) is specified, use a photocontrol that matches the input voltage used. 11. Controls system is not available in combination with a photocontrol receptacle (PR or PR7) or another controls system (MS SPB). 12. Option not available with High Voltage (H) or DuraVolt (DV). Must specify Universal (U), 347V (9), or 480V (8) voltage. 13. Utilizes the Wattstopper sensor FSP-211. Sensor color white unless specified otherwise via PDR. To field-configure, order FSIR-100 accessory separately. 14. Utilizes the Wattstopper sensor FSP-3XX series. Sensor color determined by product finish. See Sensor Color Reference Table. Field-configures via mobile application. See Controls section for details. 15. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F). 16. In order for the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more Wavelinx application information. 17. Replace XX with sensor color (WH, BZ or BK). 18. Only available in PRV-XL configurations. 19. Not available with High Voltage (H, DV, 8 or 9) or HA options. Consult LumenSafe system product pages for additional details and compatibility information. 20. Replace XX with paint color. 21. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 22. Not for use with PRV-XL or PRV-M configurations. 23. Only for use with PRV. Not applicable to PRV-M, PRV-XL, or PRV-P. 24. Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 3, 4, or 6). Refer to House Side Shield reference table for details. 25. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information. 26. Requires 7-PIN NEMA twistlock photocontrol receptacle (PR7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS or LWR). Only for use at 120-347V. 27. Only available for PRV-M configurations. 28. Only for use with PRV-XL. 29. Fixed for PRV-M. 30. Cannot be used with PR7 or other motion response control options.							

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul
L=LumenSafe Technology 	H=Dome Camera, High Res Z=Dome Camera, Remote PTZ	C=Cellular, Customer Installed SIM Card A=Cellular, Factory Installed AT&T SIM Card V=Cellular, Factory Installed Verizon SIM Card S=Cellular, Factory Installed Sprint SIM Card E=Ethernet Networking

<b>Project</b>	MSP WAUWATOSA NORTH	<b>Catalog #</b>	PRV-P-PA1C-740-U-T2U-SA-XX	<b>Type</b>	D
<b>Prepared by</b>		<b>Notes</b>		<b>Date</b>	



# Lumark

## Prevail Discrete LED

Area / Site Luminaire

### Product Features



### Product Certifications



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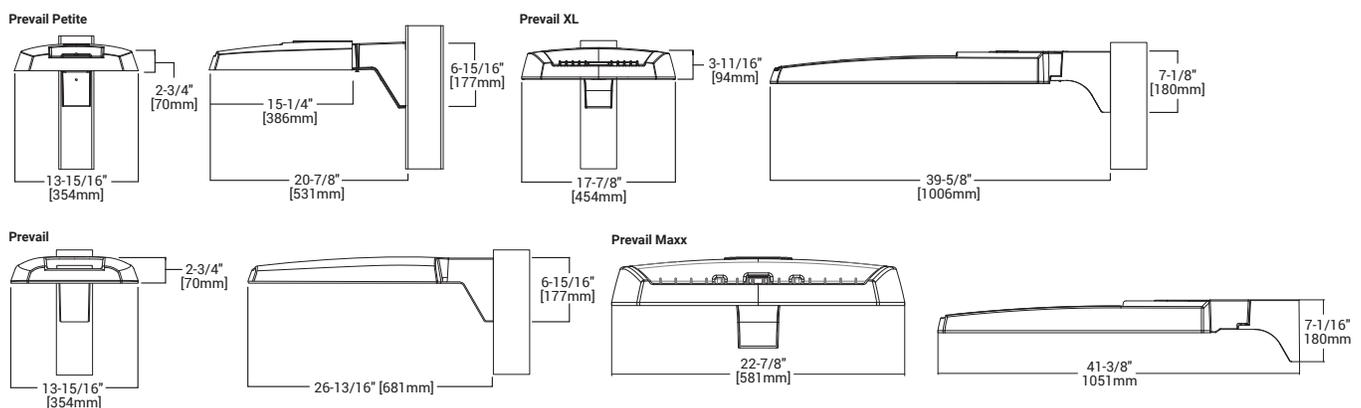
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- WaveLinx LITE Wireless

### Dimensional Details



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Ordering Information

SAMPLE NUMBER: PRV-XL-PA4B-740-U-T4W-BZ

Product Family <sup>1,2</sup>	Light Engine		Color Temperature	Voltage	Distribution	Mounting (Included)	Finish		
	Configuration	Drive Current <sup>4</sup>							
<b>PRV-P</b> =Prevail Petite <b>BAA-PRV-P</b> =Prevail Petite BAA Buy American Act Compliant <sup>3</sup> <b>TAA-PRV-P</b> =Prevail Petite TAA Trade Agreements Act Compliant <sup>3</sup>	<b>PA1</b> =1 Panel, 24 LED Rectangle	<b>A</b> =400mA Nominal <b>B</b> =700mA Nominal <b>C</b> =950mA Nominal <b>D</b> =1200mA Nominal	<b>740</b> =70CRI, 4000K <b>730</b> =70CRI, 3000K <b>750</b> =70CRI, 5000K <b>8540</b> =85CRI, 4000K	<b>U</b> =Universal, 120-277V H=High Voltage, 347-480V 1=120V 2=208V 3=240V 4=277V 8=480V <sup>5</sup> 9=347V DV=DuraVolt, 277-480V <sup>5,6</sup>	<b>T2R</b> =Type II Roadway <b>T2U</b> =Type II Urban <b>T3</b> =Type III <b>T4W</b> =Type IV Wide <b>5WQ</b> =Type V Square Wide	<b>SA</b> =QM Standard Versatile Arm <b>MA</b> =QM Mast Arm <b>FMA</b> =Fixed Mast Arm <sup>27</sup> <b>WM</b> =QM Wall Mount Arm <b>ADJA-WM</b> = Adjustable Arm - Wall Mount <sup>29</sup> <b>ADJA</b> =Adjustable Arm - Pole Mount <sup>29</sup> <b>ADJS</b> =Adjustable Arm - Slipfitter, 3" vertical tenon <sup>29</sup> <b>SP2</b> =Adjustable Arm - Slipfitter, 2 3/8" vertical tenon <sup>27, 29</sup>	<b>AP</b> =Grey <b>BZ</b> =Bronze <b>BK</b> =Black <b>DP</b> =Dark Platinum <b>GM</b> =Graphite <b>Metallic</b> <b>WH</b> =White		
<b>PRV</b> =Prevail <b>BAA-PRV</b> =Prevail BAA Buy American Act Compliant <sup>3</sup> <b>TAA-PRV</b> =Prevail TAA Trade Agreements Act Compliant <sup>3</sup>	<b>PA1</b> =1 Panel, 24 LED Rectangle <b>PA2</b> =2 Panels, 48 LED Rectangles	<b>A</b> =700mA Nominal <b>B</b> =950mA Nominal							
<b>PRV-XL</b> =PRV XL <b>BAA-PRV-XL</b> =Prevail XL BAA Buy American Act Compliant <sup>3</sup> <b>TAA-PRV-XL</b> =Prevail XL TAA Trade Agreements Act Compliant <sup>3</sup>	<b>PA3</b> =3 Panels, 72 LED Rectangles <b>PA4</b> =4 Panels, 96 LED Rectangles	<b>A</b> =750mA Nominal <b>B</b> =950mA Nominal							
<b>PRV-M</b> =Prevail Maxx <b>BAA-PRV-M</b> =Prevail Maxx BAA Buy American Act Compliant <sup>3</sup> <b>TAA-PRV-M</b> =Prevail Maxx TAA Trade Agreements Act Compliant <sup>3</sup>	<b>PA6</b> = 6 Panels, 144 LED Rectangles	<b>A</b> =600mA Nominal <b>B</b> =800mA Nominal <b>C</b> =1000mA Nominal <b>D</b> =1200mA Nominal							
Options (Add as Suffix)			Accessories (Order Separately) <sup>20, 21</sup>						
<b>10K</b> =10kV UL 1449 Fused Surge Protective Device <b>20MSP</b> =20kV MOV Surge Protective Device <b>20K</b> =20kV UL 1449 Fused Surge Protective Device <b>F</b> =Single Fuse (Used with Voltages 120, 277 or 347V) <b>FF</b> =Double Fuse (Used with Voltages 208, 240 or 480V) <b>FADC</b> =Field Adjustable Dimming Controller <sup>30</sup> <b>L90</b> =Optics Rotated 90° Left <b>R90</b> =Optics Rotated 90° Right <b>CC</b> =Coastal Construction finish <sup>9</sup> <b>HSS</b> =House Side Shield (Factory Installed) <sup>7</sup> <b>HA</b> =50°C High Ambient Temperature <sup>8</sup> <b>PR</b> =NEMA 3-PIN Twistlock Photocontrol Receptacle <sup>10</sup> <b>PR7</b> =NEMA 7-PIN Twistlock Photocontrol Receptacle <sup>10</sup> <b>MS7/DIM-L08</b> =Motion Sensor for Dimming Operation, Up to 8' Mounting Height <sup>11, 12, 13</sup> <b>MS7/DIM-L20</b> =Motion Sensor for Dimming Operation, 9' - 20' Mounting Height <sup>11, 12, 13</sup> <b>MS7/DIM-L40</b> =Motion Sensor for Dimming Operation, 21' - 40' Mounting Height <sup>11, 12, 13</sup> <b>SPB1</b> =Motion Sensor for Dimming Operation, BLE Interface, Up to 8' Mounting Height <sup>11, 14</sup> <b>SPB2</b> =Motion Sensor for Dimming Operation, BLE Interface, 8' - 20' Mounting Height <sup>11, 14, 27, 28</sup> <b>SPB4</b> =Motion Sensor for Dimming Operation, BLE Interface, 21' - 40' Mounting Height <sup>11, 14, 28</sup>			<b>WPS2XX</b> =Wavelinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting Height <sup>11, 12, 15, 16, 17</sup> <b>WPS4XX</b> =Wavelinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting Height <sup>11, 12, 15, 16, 17</sup> <b>WLS2XX</b> =WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting Height <sup>11, 12, 15, 16, 17</sup> <b>WLS4XX</b> =WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting Height <sup>11, 12, 15, 16, 17</sup> <b>(See Table Below)</b> =LumenSafe Integrated Network Security Camera <sup>18, 19</sup>			<b>PRVSA-XX</b> =Standard Arm Mounting Kit <sup>22</sup> <b>PRVMA-XX</b> =Mast Arm Mounting Kit <sup>22</sup> <b>PRVWM-XX</b> =Wall Mount Kit <sup>22</sup> <b>PRVADJA-XX</b> =Adjustable Arm - Pole Mount Kit <sup>22</sup> <b>PRVADJS-XX</b> =Adjustable Arm - Slipfitter Kit <sup>22</sup> <b>PRVADJA-WM-XX</b> =Adjustable Arm - Wall Mount Kit <sup>22</sup> <b>PRVXLSA-XX</b> =Standard Arm Mounting Kit <sup>28</sup> <b>PRVXLSMA-XX</b> =Mast Arm Mounting Kit <sup>28</sup> <b>PRVXLWM-XX</b> =Wall Mount Kit <sup>28</sup> <b>PRV-XL-ADJA-XX</b> =Adjustable Arm - Pole Mount Kit <sup>28</sup> <b>PRV-XL-ADJA-WM-XX</b> = Adjustable Arm - Wall Mount Kit <sup>28</sup> <b>PRV-XL-ADJS-XX</b> = Adjustable Arm - Slipfitter Kit <sup>28</sup> <b>PRV-M-ADJA-XX</b> =Adjustable Arm - Pole Mount Kit <sup>27</sup> <b>PRV-M-ADJS-XX</b> =Adjustable Arm - Slipfitter Kit <sup>27</sup> <b>PRV-M-ADJA-WM-XX</b> =Adjustable Arm - Wall Mount Kit <sup>27</sup> <b>MA1010-XX</b> =Single Tenon Adapter for 3-1/2" O.D. Tenon <b>MA1011-XX</b> =2@180° Tenon Adapter for 3-1/2" O.D. Tenon		<b>MA1017-XX</b> =Single Tenon Adapter for 2-3/8" O.D. Tenon <b>MA1018-XX</b> =2@180° Tenon Adapter for 2-3/8" O.D. Tenon <b>SRA238</b> =Tenon Adapter from 3" to 2-3/8" <b>PRV/DIS-FDV</b> =Full Drop Visor <sup>23</sup> <b>PRVXL/DIS-FDV</b> =Full Drop Visor <sup>18</sup> <b>HSS-VP</b> =House Side Shield Kit, Vertical Panel <sup>7, 24</sup> <b>HSS-HP</b> =House Side Shield Kit, Horizontal Panel <sup>7, 24</sup> <b>VGS-ARCH</b> = Panel Drop Shield, Short <b>VGL-ARCH</b> = Panel Drop Shield, Long <b>OA/RA1013</b> =Photocontrol Shorting Cap <b>OA/RA1014</b> =NEMA Photocontrol - 120V <b>OA/RA1016</b> =NEMA Photocontrol - Multi-Tap 105-285V <b>OA/RA1201</b> =NEMA Photocontrol - 347V <b>OA/RA1027</b> =NEMA Photocontrol - 480V <b>FSIR-100</b> =Wireless Configuration Tool for Occupancy Sensor <sup>25</sup> <b>WOLC-7P-10A</b> =WaveLinx Outdoor Control Module (7-PIN) <sup>26</sup>	
<b>NOTES:</b> 1. DesignLights Consortium® Qualified. Refer to <a href="http://www.designlights.org">www.designlights.org</a> Qualified Products List under Family Models for details. 2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications. Refer to installation instructions and pole white paper WPS13001EN for additional support information. 3. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to <a href="http://DOMESTIC.PREFERENCES">DOMESTIC.PREFERENCES</a> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 4. Nominal drive currents shown here. For actual drive current by configuration, refer to Power and Lumens tables. 5. 480V not to be used with ungrounded or impedance grounded systems. 6. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit <a href="http://www.signify.com/duravolt">www.signify.com/duravolt</a> for more information. 7. House Side Shield not for use with 5WQ distribution. 8. Not available with PATD light engine in Petite housing (PRV-P). 9. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 10. If High Voltage (H) or DuraVolt (DV) is specified, use a photocontrol that matches the input voltage used. 11. Controls system is not available in combination with a photocontrol receptacle (PR or PR7) or another controls system (MS SPB). 12. Option not available with High Voltage (H) or DuraVolt (DV). Must specify Universal (U), 347V (9), or 480V (8) voltage. 13. Utilizes the Wattstopper sensor FSP-211. Sensor color white unless specified otherwise via PDR. To field-configure, order FSIR-100 accessory separately. 14. Utilizes the Wattstopper sensor FSP-3XX series. Sensor color determined by product finish. See Sensor Color Reference Table. Field-configures via mobile application. See Controls section for details. 15. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F). 16. In order for the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more Wavelinx application information. 17. Replace XX with sensor color (WH, BZ or BK). 18. Only available in PRV-XL configurations. 19. Not available with High Voltage (H, DV, 8 or 9) or HA options. Consult LumenSafe system product pages for additional details and compatibility information. 20. Replace XX with paint color. 21. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 22. Not for use with PRV-XL or PRV-M configurations. 23. Only for use with PRV. Not applicable to PRV-M, PRV-XL, or PRV-P. 24. Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 3, 4, or 6). Refer to House Side Shield reference table for details. 25. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information. 26. Requires 7-PIN NEMA twistlock photocontrol receptacle (PR7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS or LWR). Only for use at 120-347V. 27. Only available for PRV-M configurations. 28. Only for use with PRV-XL. 29. Fixed for PRV-M. 30. Cannot be used with PR7 or other motion response control options.									

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul
L=LumenSafe Technology 	<b>H</b> =Dome Camera, High Res <b>Z</b> =Dome Camera, Remote PTZ	<b>C</b> =Cellular, Customer Installed SIM Card <b>A</b> =Cellular, Factory Installed AT&T SIM Card <b>V</b> =Cellular, Factory Installed Verizon SIM Card <b>S</b> =Cellular, Factory Installed Sprint SIM Card <b>E</b> =Ethernet Networking

<b>Project</b>	MSP WAUWATOSA NORTH	<b>Catalog #</b>	PRV-P-PA1D-740-U-T4W-SA-XX	<b>Type</b>	E
<b>Prepared by</b>		<b>Notes</b>		<b>Date</b>	



# Lumark

## Prevail Discrete LED

Area / Site Luminaire

### Product Features



### Product Certifications



### Interactive Menu

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- Mounting Details [page 3, 4](#)
- Optical Configurations [page 5](#)
- Product Specifications [page 5](#)
- Energy and Performance Data [page 6](#)
- Control Options [page 8](#)

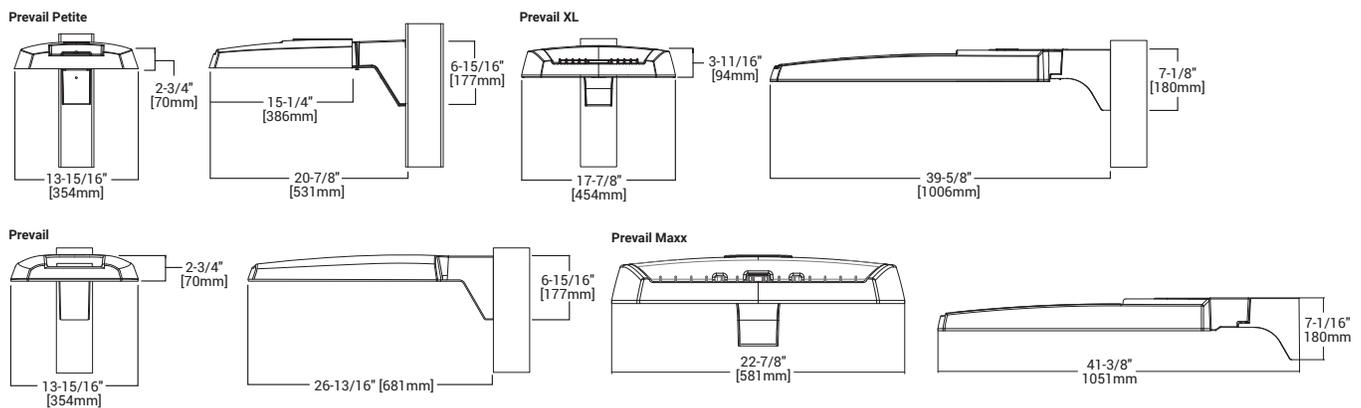
### Quick Facts

- Direct-mounted discrete light engine for improved optical uniformity and visual comfort
- Lumen packages range from 4,300 - 68,000 nominal lumens (30W - 550W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 157 lumens per watt
- Standard universal quick mount arm with universal drill pattern

### Connected Systems

- WaveLinx PRO Wireless
- WaveLinx LITE Wireless

### Dimensional Details



**NOTES:**  
 1. Visit <https://www.designlights.org/search/> to confirm qualification. Not all product variations are DLC qualified.  
 2. IDA Certified for 3000K CCT and warmer only.

Ordering Information

SAMPLE NUMBER: PRV-XL-PA4B-740-U-T4W-BZ

Product Family <sup>1,2</sup>	Light Engine		Color Temperature	Voltage	Distribution	Mounting (Included)	Finish		
	Configuration	Drive Current <sup>4</sup>							
<b>PRV-P</b> =Prevail Petite <b>BAA-PRV-P</b> =Prevail Petite BAA Buy American Act Compliant <sup>3</sup> <b>TAA-PRV-P</b> =Prevail Petite TAA Trade Agreements Act Compliant <sup>3</sup>	<b>PA1</b> =1 Panel, 24 LED Rectangle	<b>A</b> =400mA Nominal <b>B</b> =700mA Nominal <b>C</b> =950mA Nominal <b>D</b> =1200mA Nominal	<b>740</b> =70CRI, 4000K <b>730</b> =70CRI, 3000K <b>750</b> =70CRI, 5000K <b>8540</b> =85CRI, 4000K	<b>U</b> =Universal, 120-277V <b>H</b> =High Voltage, 347-480V 1=120V 2=208V 3=240V 4=277V 8=480V <sup>5</sup> 9=347V <b>DV</b> =DuraVolt, 277-480V <sup>5,6</sup>	<b>T2R</b> =Type II Roadway <b>T2U</b> =Type II Urban <b>T3</b> =Type III <b>T4W</b> =Type IV Wide <b>SWQ</b> =Type V Square Wide	<b>SA</b> =QM Standard Versatile Arm <b>MA</b> =QM Mast Arm <b>FMA</b> =Fixed Mast Arm <sup>27</sup> <b>WM</b> =QM Wall Mount Arm <b>ADJA-WM</b> = Adjustable Arm - Wall Mount <sup>29</sup> <b>ADJA</b> =Adjustable Arm - Pole Mount <sup>29</sup> <b>ADJS</b> =Adjustable Arm - Slipfitter, 3" vertical tenon <sup>29</sup> <b>SP2</b> =Adjustable Arm - Slipfitter, 2 3/8" vertical tenon <sup>27, 29</sup>	<b>AP</b> =Grey <b>BZ</b> =Bronze <b>BK</b> =Black <b>DP</b> =Dark Platinum <b>GM</b> =Graphite Metallic <b>WH</b> =White		
<b>PRV</b> =Prevail <b>BAA-PRV</b> =Prevail BAA Buy American Act Compliant <sup>3</sup> <b>TAA-PRV</b> =Prevail TAA Trade Agreements Act Compliant <sup>3</sup>	<b>PA1</b> =1 Panel, 24 LED Rectangle <b>PA2</b> =2 Panels, 48 LED Rectangles	<b>A</b> =700mA Nominal <b>B</b> =950mA Nominal							
<b>PRV-XL</b> =PRV XL <b>BAA-PRV-XL</b> =Prevail XL BAA Buy American Act Compliant <sup>3</sup> <b>TAA-PRV-XL</b> =Prevail XL TAA Trade Agreements Act Compliant <sup>3</sup>	<b>PA3</b> =3 Panels, 72 LED Rectangles <b>PA4</b> =4 Panels, 96 LED Rectangles	<b>A</b> =750mA Nominal <b>B</b> =950mA Nominal							
<b>PRV-M</b> =Prevail Maxx <b>BAA-PRV-M</b> =Prevail Maxx BAA Buy American Act Compliant <sup>3</sup> <b>TAA-PRV-M</b> =Prevail Maxx TAA Trade Agreements Act Compliant <sup>3</sup>	<b>PA6</b> = 6 Panels, 144 LED Rectangles	<b>A</b> =600mA Nominal <b>B</b> =800mA Nominal <b>C</b> =1000mA Nominal <b>D</b> =1200mA Nominal							
Options (Add as Suffix)			Accessories (Order Separately) <sup>20,21</sup>						
<b>10K</b> =10kV UL 1449 Fused Surge Protective Device <b>20MSP</b> =20kV MOV Surge Protective Device <b>20K</b> =20kV UL 1449 Fused Surge Protective Device <b>F</b> =Single Fuse (Used with Voltages 120, 277 or 347V) <b>FF</b> =Double Fuse (Used with Voltages 208, 240 or 480V) <b>FADC</b> =Field Adjustable Dimming Controller <sup>30</sup> <b>L90</b> =Optics Rotated 90° Left <b>R90</b> =Optics Rotated 90° Right <b>CC</b> =Coastal Construction finish <sup>9</sup> <b>HSS</b> =House Side Shield (Factory Installed) <sup>7</sup> <b>HA</b> =50°C High Ambient Temperature <sup>8</sup> <b>PR</b> =NEMA 3-PIN Twistlock Photocontrol Receptacle <sup>10</sup> <b>PR7</b> =NEMA 7-PIN Twistlock Photocontrol Receptacle <sup>10</sup> <b>MS7/DIM-L08</b> =Motion Sensor for Dimming Operation, Up to 8' Mounting Height <sup>11,12,13</sup> <b>MS7/DIM-L20</b> =Motion Sensor for Dimming Operation, 9' - 20' Mounting Height <sup>11,12,13</sup> <b>MS7/DIM-L40</b> =Motion Sensor for Dimming Operation, 21' - 40' Mounting Height <sup>11,12,13</sup> <b>SPB1</b> =Motion Sensor for Dimming Operation, BLE Interface, Up to 8' Mounting Height <sup>11,14</sup> <b>SPB2</b> =Motion Sensor for Dimming Operation, BLE Interface, 8' - 20' Mounting Height <sup>11,14,27,28</sup> <b>SPB4</b> =Motion Sensor for Dimming Operation, BLE Interface, 21' - 40' Mounting Height <sup>11,14,28</sup>			<b>WPS2XX</b> =Wavelinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting Height <sup>11,12,15,16,17</sup> <b>WPS4XX</b> =Wavelinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting Height <sup>11,12,15,16,17</sup> <b>WLS2XX</b> =WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting Height <sup>11,12,15,16,17</sup> <b>WLS4XX</b> =WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting Height <sup>11,12,15,16,17</sup> <b>(See Table Below)</b> =LumenSafe Integrated Network Security Camera <sup>18,19</sup>			<b>PRVSA-XX</b> =Standard Arm Mounting Kit <sup>22</sup> <b>PRVMA-XX</b> =Mast Arm Mounting Kit <sup>22</sup> <b>PRVWM-XX</b> =Wall Mount Kit <sup>22</sup> <b>PRV-ADJA-XX</b> =Adjustable Arm - Pole Mount Kit <sup>22</sup> <b>PRV-ADJS-XX</b> =Adjustable Arm - Slipfitter Kit <sup>22</sup> <b>PRV-ADJA-WM-XX</b> =Adjustable Arm - Wall Mount Kit <sup>22</sup> <b>PRVXLSA-XX</b> =Standard Arm Mounting Kit <sup>28</sup> <b>PRVXLSMA-XX</b> =Mast Arm Mounting Kit <sup>28</sup> <b>PRVXLWM-XX</b> =Wall Mount Kit <sup>28</sup> <b>PRV-XL-ADJA-XX</b> =Adjustable Arm - Pole Mount Kit <sup>28</sup> <b>PRV-XL-ADJA-WM-XX</b> = Adjustable Arm - Wall Mount Kit <sup>28</sup> <b>PRV-XL-ADJS-XX</b> = Adjustable Arm - Slipfitter Kit <sup>28</sup> <b>PRV-M-ADJA-XX</b> =Adjustable Arm - Pole Mount Kit <sup>27</sup> <b>PRV-M-ADJS-XX</b> =Adjustable Arm - Slipfitter Kit <sup>27</sup> <b>PRV-M-ADJA-WM-XX</b> =Adjustable Arm - Wall Mount Kit <sup>27</sup> <b>MA1010-XX</b> =Single Tenon Adapter for 3-1/2" O.D. Tenon <b>MA1011-XX</b> =2@180° Tenon Adapter for 3-1/2" O.D. Tenon		<b>MA1017-XX</b> =Single Tenon Adapter for 2-3/8" O.D. Tenon <b>MA1018-XX</b> =2@180° Tenon Adapter for 2-3/8" O.D. Tenon <b>SRA238</b> =Tenon Adapter from 3" to 2-3/8" <b>PRV/DIS-FDV</b> =Full Drop Visor <sup>23</sup> <b>PRVXL/DIS-FDV</b> =Full Drop Visor <sup>18</sup> <b>HSS-VP</b> =House Side Shield Kit, Vertical Panel <sup>7,24</sup> <b>HSS-HP</b> =House Side Shield Kit, Horizontal Panel <sup>7,24</sup> <b>VGS-ARCH</b> = Panel Drop Shield, Short <b>VGL-ARCH</b> = Panel Drop Shield, Long <b>OA/RA1013</b> =Photocontrol Shorting Cap <b>OA/RA1014</b> =NEMA Photocontrol - 120V <b>OA/RA1016</b> =NEMA Photocontrol - Multi-Tap 105-285V <b>OA/RA1201</b> =NEMA Photocontrol - 347V <b>OA/RA1027</b> =NEMA Photocontrol - 480V <b>FSIR-100</b> =Wireless Configuration Tool for Occupancy Sensor <sup>25</sup> <b>WOLC-7P-10A</b> =WaveLinx Outdoor Control Module (7-PIN) <sup>26</sup>	
<b>NOTES:</b> 1. DesignLights Consortium® Qualified. Refer to <a href="http://www.designlights.org">www.designlights.org</a> Qualified Products List under Family Models for details. 2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications. Refer to installation instructions and pole white paper WPS13001EN for additional support information. 3. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to <a href="http://www.designlights.org">www.designlights.org</a> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 4. Nominal drive currents shown here. For actual drive current by configuration, refer to Power and Lumens tables. 5. 480V not to be used with ungrounded or impedance grounded systems. 6. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit <a href="http://www.signify.com/duravolt">www.signify.com/duravolt</a> for more information. 7. House Side Shield not for use with 5WQ distribution. 8. Not available with PATD light engine in Petite housing (PRV-P). 9. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 10. If High Voltage (H) or DuraVolt (DV) is specified, use a photocontrol that matches the input voltage used. 11. Controls system is not available in combination with a photocontrol receptacle (PR or PR7) or another controls system (MS SPB). 12. Option not available with High Voltage (H) or DuraVolt (DV). Must specify Universal (U), 347V (9), or 480V (8) voltage. 13. Utilizes the Wattstopper sensor FSP-211. Sensor color white unless specified otherwise via PDR. To field-configure, order FSIR-100 accessory separately. 14. Utilizes the Wattstopper sensor FSP-3XX series. Sensor color determined by product finish. See Sensor Color Reference Table. Field-configures via mobile application. See Controls section for details. 15. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F). 16. In order for the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more WaveLinx application information. 17. Replace XX with sensor color (WH, BZ or BK). 18. Only available in PRV-XL configurations. 19. Not available with High Voltage (H, DV, 8 or 9) or HA options. Consult LumenSafe system product pages for additional details and compatibility information. 20. Replace XX with paint color. 21. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 22. Not for use with PRV-XL or PRV-M configurations. 23. Only for use with PRV. Not applicable to PRV-M, PRV-XL, or PRV-P. 24. Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 3, 4, or 6). Refer to House Side Shield reference table for details. 25. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information. 26. Requires 7-PIN NEMA twistlock photocontrol receptacle (PR7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS or LWR). Only for use at 120-347V. 27. Only available for PRV-M configurations. 28. Only for use with PRV-XL. 29. Fixed for PRV-M. 30. Cannot be used with PR7 or other motion response control options.									

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul
L=LumenSafe Technology 	<b>H</b> =Dome Camera, High Res <b>Z</b> =Dome Camera, Remote PTZ	<b>C</b> =Cellular, Customer Installed SIM Card <b>A</b> =Cellular, Factory Installed AT&T SIM Card <b>V</b> =Cellular, Factory Installed Verizon SIM Card <b>S</b> =Cellular, Factory Installed Sprint SIM Card <b>E</b> =Ethernet Networking

<b>Project</b>	MSP WAUWATOSA NORTH	<b>Catalog #</b>	PRV-P-PA1D-740-U-5WQ-SA-XX	<b>Type</b>	F
<b>Prepared by</b>		<b>Notes</b>		<b>Date</b>	



# Lumark

## Prevail Discrete LED

Area / Site Luminaire

### Product Features



### Product Certifications



### Interactive Menu

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- Energy and Performance Data [page 6](#)
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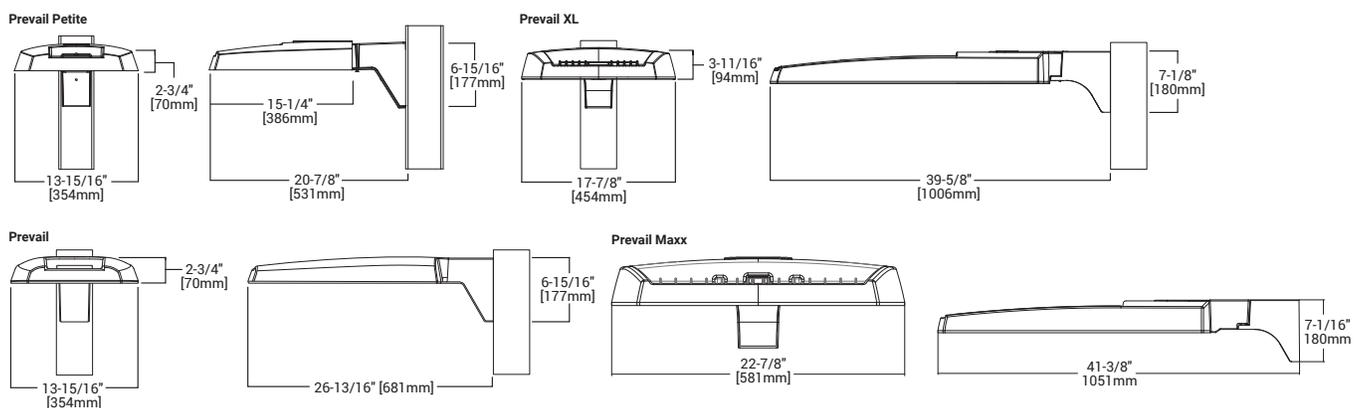
### Quick Facts

- Direct-mounted discrete light engine for improved optical uniformity and visual comfort
- Lumen packages range from 4,300 - 68,000 nominal lumens (30W - 550W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 157 lumens per watt
- Standard universal quick mount arm with universal drill pattern

### Connected Systems

- WaveLinx PRO Wireless
- WaveLinx LITE Wireless

### Dimensional Details



**NOTES:**  
 1. Visit <https://www.designlights.org/search/> to confirm qualification. Not all product variations are DLC qualified.  
 2. IDA Certified for 3000K CCT and warmer only.

Ordering Information

SAMPLE NUMBER: PRV-XL-PA4B-740-U-T4W-BZ

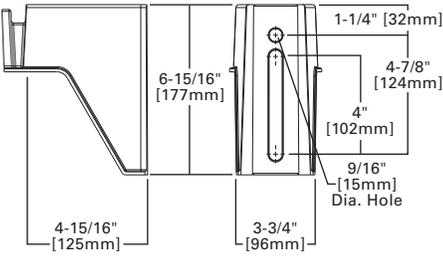
Product Family <sup>1,2</sup>	Light Engine		Color Temperature	Voltage	Distribution	Mounting (Included)	Finish		
	Configuration	Drive Current <sup>4</sup>							
<b>PRV-P</b> =Prevail Petite <b>BAA-PRV-P</b> =Prevail Petite BAA Buy American Act Compliant <sup>3</sup> <b>TAA-PRV-P</b> =Prevail Petite TAA Trade Agreements Act Compliant <sup>3</sup>	<b>PA1</b> =1 Panel, 24 LED Rectangle	<b>A</b> =400mA Nominal <b>B</b> =700mA Nominal <b>C</b> =950mA Nominal <b>D</b> =1200mA Nominal	<b>740</b> =70CRI, 4000K <b>730</b> =70CRI, 3000K <b>750</b> =70CRI, 5000K <b>8540</b> =85CRI, 4000K	<b>U</b> =Universal, 120-277V <b>H</b> =High Voltage, 347-480V 1=120V 2=208V 3=240V 4=277V 8=480V <sup>5</sup> 9=347V <b>DV</b> =DuraVolt, 277-480V <sup>5,6</sup>	<b>T2R</b> =Type II Roadway <b>T2U</b> =Type II Urban <b>T3</b> =Type III <b>T4W</b> =Type IV Wide <b>5WQ</b> =Type V Square Wide	<b>SA</b> =QM Standard Versatile Arm <b>MA</b> =QM Mast Arm <b>FMA</b> =Fixed Mast Arm <sup>27</sup> <b>WM</b> =QM Wall Mount Arm <b>ADJA-WM</b> = Adjustable Arm - Wall Mount <sup>29</sup> <b>ADJA</b> =Adjustable Arm - Pole Mount <sup>29</sup> <b>ADJS</b> =Adjustable Arm - Slipfitter, 3" vertical tenon <sup>29</sup> <b>SP2</b> =Adjustable Arm - Slipfitter, 2 3/8" vertical tenon <sup>27, 29</sup>	<b>AP</b> =Grey <b>BZ</b> =Bronze <b>BK</b> =Black <b>DP</b> =Dark Platinum <b>GM</b> =Graphite <b>Metallic</b> <b>WH</b> =White		
<b>PRV</b> =Prevail <b>BAA-PRV</b> =Prevail BAA Buy American Act Compliant <sup>3</sup> <b>TAA-PRV</b> =Prevail TAA Trade Agreements Act Compliant <sup>3</sup>	<b>PA1</b> =1 Panel, 24 LED Rectangle <b>PA2</b> =2 Panels, 48 LED Rectangles	<b>A</b> =700mA Nominal <b>B</b> =950mA Nominal							
<b>PRV-XL</b> =PRV XL <b>BAA-PRV-XL</b> =Prevail XL BAA Buy American Act Compliant <sup>3</sup> <b>TAA-PRV-XL</b> =Prevail XL TAA Trade Agreements Act Compliant <sup>3</sup>	<b>PA3</b> =3 Panels, 72 LED Rectangles <b>PA4</b> =4 Panels, 96 LED Rectangles	<b>A</b> =750mA Nominal <b>B</b> =950mA Nominal							
<b>PRV-M</b> =Prevail Maxx <b>BAA-PRV-M</b> =Prevail Maxx BAA Buy American Act Compliant <sup>3</sup> <b>TAA-PRV-M</b> =Prevail Maxx TAA Trade Agreements Act Compliant <sup>3</sup>	<b>PA6</b> = 6 Panels, 144 LED Rectangles	<b>A</b> =600mA Nominal <b>B</b> =800mA Nominal <b>C</b> =1000mA Nominal <b>D</b> =1200mA Nominal							
<b>Options (Add as Suffix)</b>			<b>Accessories (Order Separately) <sup>20, 21</sup></b>						
<b>10K</b> =10kV UL 1449 Fused Surge Protective Device <b>20MSP</b> =20kV MOV Surge Protective Device <b>20K</b> =20kV UL 1449 Fused Surge Protective Device <b>F</b> =Single Fuse (Used with Voltages 120, 277 or 347V) <b>FF</b> =Double Fuse (Used with Voltages 208, 240 or 480V) <b>FADC</b> =Field Adjustable Dimming Controller <sup>30</sup> <b>L90</b> =Optics Rotated 90° Left <b>R90</b> =Optics Rotated 90° Right <b>CC</b> =Coastal Construction finish <sup>9</sup> <b>HSS</b> =House Side Shield (Factory Installed) <sup>7</sup> <b>HA</b> =50°C High Ambient Temperature <sup>8</sup> <b>PR</b> =NEMA 3-PIN Twistlock Photocontrol Receptacle <sup>10</sup> <b>PR7</b> =NEMA 7-PIN Twistlock Photocontrol Receptacle <sup>10</sup> <b>MS7/DIM-L08</b> =Motion Sensor for Dimming Operation, Up to 8' Mounting Height <sup>11, 12, 13</sup> <b>MS7/DIM-L20</b> =Motion Sensor for Dimming Operation, 9' - 20' Mounting Height <sup>11, 12, 13</sup> <b>MS7/DIM-L40</b> =Motion Sensor for Dimming Operation, 21' - 40' Mounting Height <sup>11, 12, 13</sup> <b>SPB1</b> =Motion Sensor for Dimming Operation, BLE Interface, Up to 8' Mounting Height <sup>11, 14</sup> <b>SPB2</b> =Motion Sensor for Dimming Operation, BLE Interface, 8' - 20' Mounting Height <sup>11, 14, 27, 28</sup> <b>SPB4</b> =Motion Sensor for Dimming Operation, BLE Interface, 21' - 40' Mounting Height <sup>11, 14, 28</sup>			<b>WPS2XX</b> =Wavelinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting Height <sup>11, 12, 15, 16, 17</sup> <b>WPS4XX</b> =Wavelinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting Height <sup>11, 12, 15, 16, 17</sup> <b>WLS2XX</b> =WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting <sup>11, 12, 15, 16, 17</sup> <b>WLS4XX</b> =WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting <sup>11, 12, 15, 16, 17</sup> <b>(See Table Below)</b> =LumenSafe Integrated Network Security Camera <sup>18, 19</sup>			<b>PRVSA-XX</b> =Standard Arm Mounting Kit <sup>22</sup> <b>PRVMA-XX</b> =Mast Arm Mounting Kit <sup>22</sup> <b>PRVWM-XX</b> =Wall Mount Kit <sup>22</sup> <b>PRVADJA-XX</b> =Adjustable Arm - Pole Mount Kit <sup>22</sup> <b>PRVADJS-XX</b> =Adjustable Arm - Slipfitter Kit <sup>22</sup> <b>PRVADJA-WM-XX</b> =Adjustable Arm - Wall Mount Kit <sup>22</sup> <b>PRVXLSA-XX</b> =Standard Arm Mounting Kit <sup>28</sup> <b>PRVXLSMA-XX</b> =Mast Arm Mounting Kit <sup>28</sup> <b>PRVXLWM-XX</b> =Wall Mount Kit <sup>28</sup> <b>PRV-XL-ADJA-XX</b> =Adjustable Arm - Pole Mount Kit <sup>28</sup> <b>PRV-XL-ADJA-WM-XX</b> = Adjustable Arm - Wall Mount Kit <sup>28</sup> <b>PRV-XL-ADJS-XX</b> = Adjustable Arm - Slipfitter Kit <sup>28</sup> <b>PRV-M-ADJA-XX</b> =Adjustable Arm - Pole Mount Kit <sup>27</sup> <b>PRV-M-ADJS-XX</b> =Adjustable Arm - Slipfitter Kit <sup>27</sup> <b>PRV-M-ADJA-WM-XX</b> =Adjustable Arm - Wall Mount Kit <sup>27</sup> <b>MA1010-XX</b> =Single Tenon Adapter for 3-1/2" O.D. Tenon <b>MA1011-XX</b> =2@180° Tenon Adapter for 3-1/2" O.D. Tenon		<b>MA1017-XX</b> =Single Tenon Adapter for 2-3/8" O.D. Tenon <b>MA1018-XX</b> =2@180° Tenon Adapter for 2-3/8" O.D. Tenon <b>SRA238</b> =Tenon Adapter from 3" to 2-3/8" <b>PRV/DIS-FDV</b> =Full Drop Visor <sup>23</sup> <b>PRVXL/DIS-FDV</b> =Full Drop Visor <sup>18</sup> <b>HSS-VP</b> =House Side Shield Kit, Vertical Panel <sup>7, 24</sup> <b>HSS-HP</b> =House Side Shield Kit, Horizontal Panel <sup>7, 24</sup> <b>VGS-ARCH</b> = Panel Drop Shield, Short <b>VGL-ARCH</b> = Panel Drop Shield, Long <b>OA/RA1013</b> =Photocontrol Shorting Cap <b>OA/RA1014</b> =NEMA Photocontrol - 120V <b>OA/RA1016</b> =NEMA Photocontrol - Multi-Tap 105-285V <b>OA/RA1201</b> =NEMA Photocontrol - 347V <b>OA/RA1027</b> =NEMA Photocontrol - 480V <b>FSIR-100</b> =Wireless Configuration Tool for Occupancy Sensor <sup>25</sup> <b>WOLC-7P-10A</b> =WaveLinx Outdoor Control Module (7-PIN) <sup>26</sup>	
<b>NOTES:</b> 1. DesignLights Consortium® Qualified. Refer to <a href="http://www.designlights.org">www.designlights.org</a> Qualified Products List under Family Models for details. 2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications. Refer to installation instructions and pole white paper WPS13001EN for additional support information. 3. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to <a href="http://www.designlights.org">www.designlights.org</a> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 4. Nominal drive currents shown here. For actual drive current by configuration, refer to Power and Lumens tables. 5. 480V not to be used with ungrounded or impedance grounded systems. 6. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit <a href="http://www.signify.com/duravolt">www.signify.com/duravolt</a> for more information. 7. House Side Shield not for use with 5WQ distribution. 8. Not available with PATD light engine in Petite housing (PRV-P). 9. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 10. If High Voltage (H) or DuraVolt (DV) is specified, use a photocontrol that matches the input voltage used. 11. Controls system is not available in combination with a photocontrol receptacle (PR or PR7) or another controls system (MS SPB). 12. Option not available with High Voltage (H) or DuraVolt (DV). Must specify Universal (U), 347V (9), or 480V (8) voltage. 13. Utilizes the Wattstopper sensor FSP-211. Sensor color white unless specified otherwise via PDR. To field-configure, order FSIR-100 accessory separately. 14. Utilizes the Wattstopper sensor FSP-3XX series. Sensor color determined by product finish. See Sensor Color Reference Table. Field-configures via mobile application. See Controls section for details. 15. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F). 16. In order for the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more Wavelinx application information. 17. Replace XX with sensor color (WH, BZ or BK). 18. Only available in PRV-XL configurations. 19. Not available with High Voltage (H, DV, 8 or 9) or HA options. Consult LumenSafe system product pages for additional details and compatibility information. 20. Replace XX with paint color. 21. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 22. Not for use with PRV-XL or PRV-M configurations. 23. Only for use with PRV. Not applicable to PRV-M, PRV-XL, or PRV-P. 24. Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 3, 4, or 6). Refer to House Side Shield reference table for details. 25. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information. 26. Requires 7-PIN NEMA twistlock photocontrol receptacle (PR7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS or LWR). Only for use at 120-347V. 27. Only available for PRV-M configurations. 28. Only for use with PRV-XL. 29. Fixed for PRV-M. 30. Cannot be used with PR7 or other motion response control options.									

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

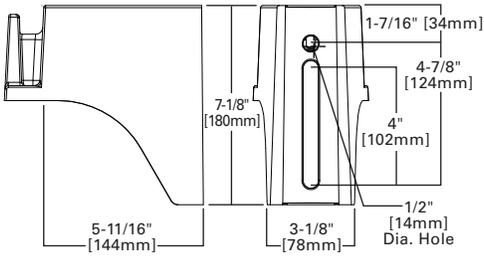
Product Family	Camera Type	Data Backhaul
<b>L</b> =LumenSafe Technology 	<b>H</b> =Dome Camera, High Res <b>Z</b> =Dome Camera, Remote PTZ	<b>C</b> =Cellular, Customer Installed SIM Card <b>A</b> =Cellular, Factory Installed AT&T SIM Card <b>V</b> =Cellular, Factory Installed Verizon SIM Card <b>S</b> =Cellular, Factory Installed Sprint SIM Card <b>E</b> =Ethernet Networking

Mounting Details

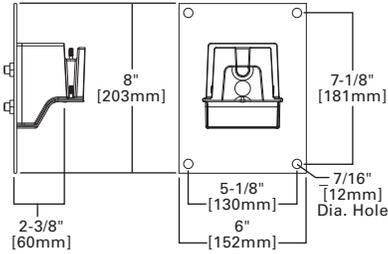
SA=QM Pole Mount Arm (PRV & PRV-P)



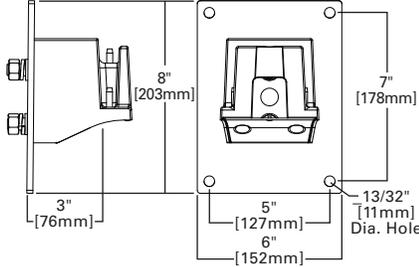
SA=QM Pole Mount Arm (PRV-XL)



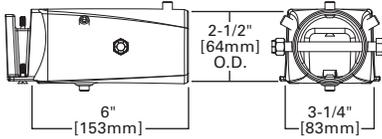
WM=QM Wall Mount Arm (PRV & PRV-P)



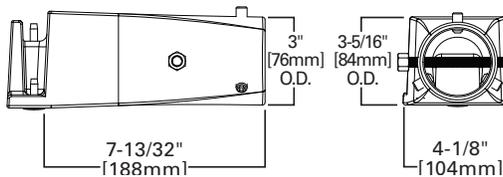
WM=QM Wall Mount Arm (PRV-XL)



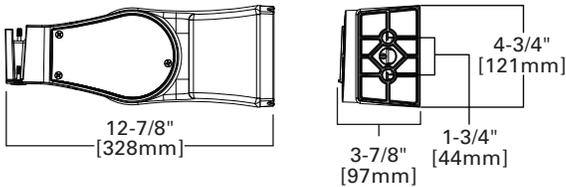
MA=QM Mast Arm (PRV & PRV-P)



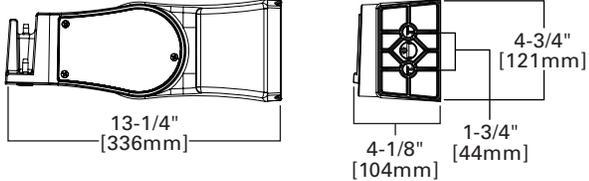
MA=QM Mast Arm (PRV-XL)



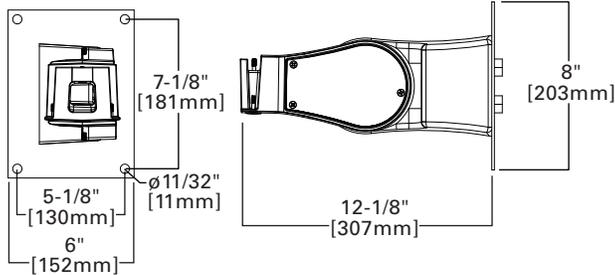
ADJA=Adjustable Arm Pole Mount (PRV & PRV-P)



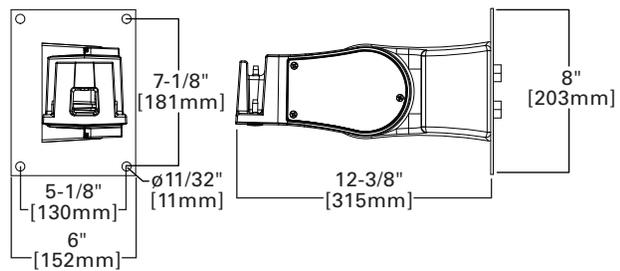
ADJA=Adjustable Arm Pole Mount (PRV-XL)



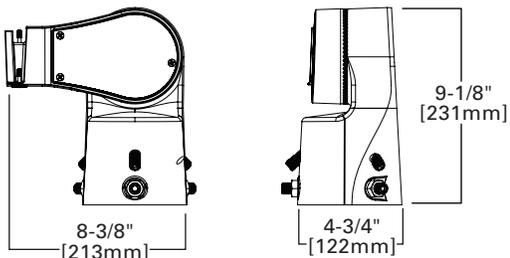
ADJA-WM=Adjustable Arm Wall Mount (PRV & PRV-P)



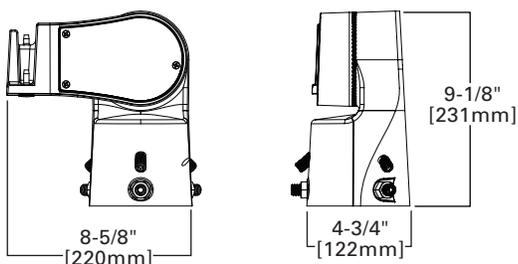
ADJA-WM=Adjustable Arm Wall Mount (PRV-XL)



ADJS=Adjustable Slipfitter 3 (PRV & PRV-P)

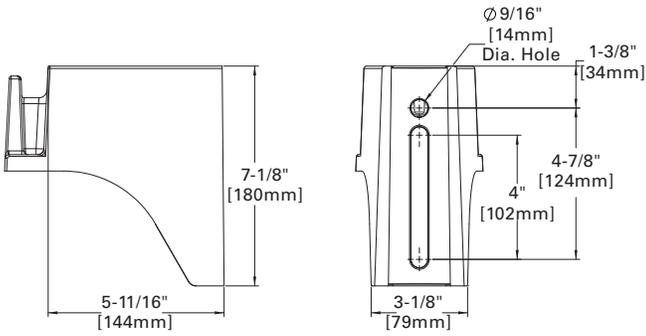


ADJS=Adjustable Slipfitter 3 (PRV-XL)

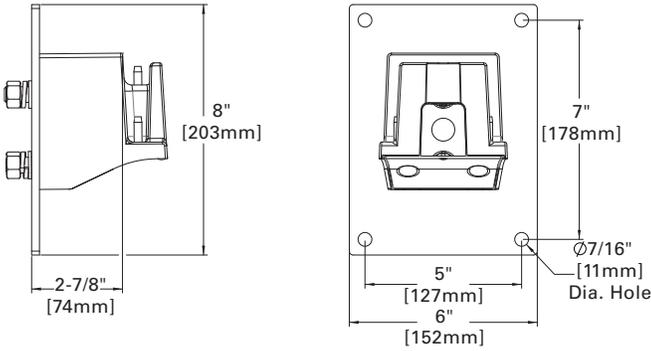


Mounting Details

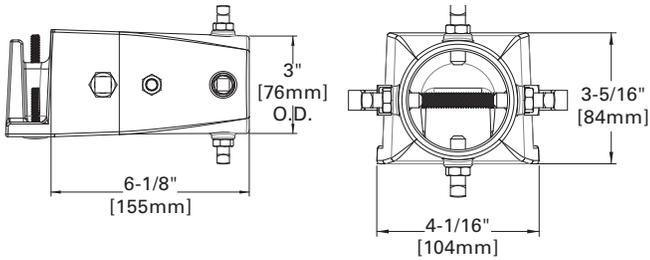
SA=QM Pole Mount Arm (PRV-M)



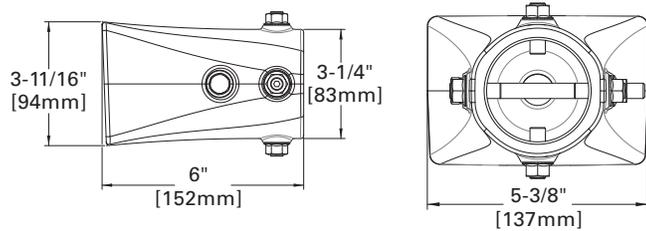
WM=QM Wall Mount Arm (PRV-M)



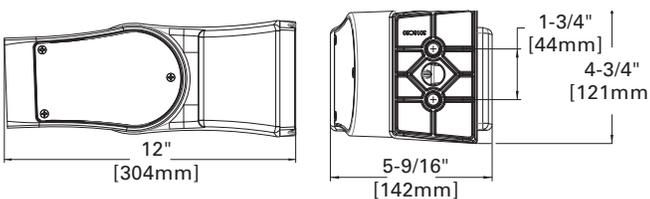
MA=QM Mast Arm (PRV-M)



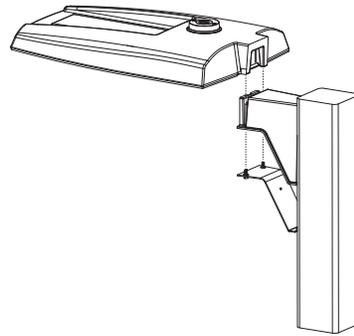
FMA=Fixed Mast Arm (PRV-M)



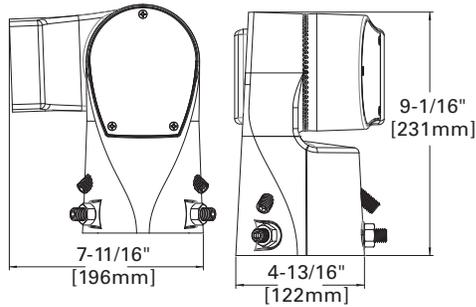
ADJA=Adjustable Pole Mount Arm (PRV-M)



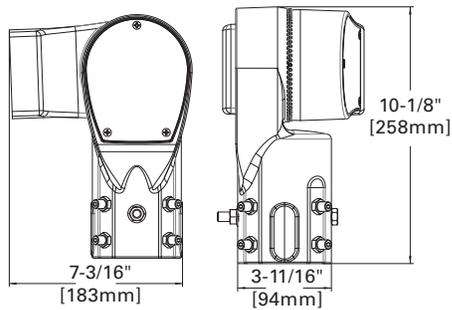
Versatile Mount System



ADJS=Adjustable Slipfitter (PRV-M)



SP2=Adjustable Slipfitter 2-3/8\" (PRV-M)



## Mounting Details

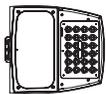
### Mounting Configurations and EPAs

**NOTE:** For 2 PRV's mounted at 90°, requires minimum 3" square or 4" round pole for fixture clearance. For 2 PRV-XL's mounted at 90°, requires minimum 4" square or round pole for fixture clearance. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications

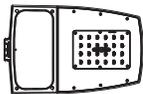
Housing Size	Tilt Angle (Degrees)	Arm Mount Single	Arm Mount 2 @ 180°	Arm Mount 2 @ 90°	Arm Mount 3 @ 90°	Arm Mount 4 @ 90°
Prevail Petite	0°	0.54	1.08	0.84	1.38	1.38
	60°	1.68	1.85	2.42	3.15	3.30
Prevail	0°	0.92	1.35	1.42	1.63	1.63
	60°	2.20	2.40	3.05	3.88	4.07
	60° + Full Drop Visor	2.20	2.40	3.25	4.28	4.47
Prevail XL	0°	1.12	2.25	2.13	2.52	2.52
	60°	3.99	4.30	5.26	6.51	6.79
	60° + Full Drop Visor	3.99	4.30	5.59	7.17	7.49
Prevail Maxx	0°	1.28	2.56	1.7	2.69	2.69
	60°	5.09	5.52	6.34	7.49	7.81

## Optical Configurations

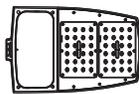
PRV-P-PA1X



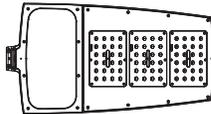
PRV-PA1X



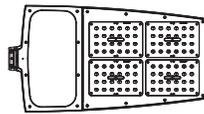
PRV-PA2X



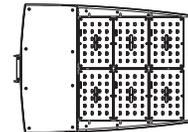
PRV-XL-PA3X



PRV-XL-PA4X



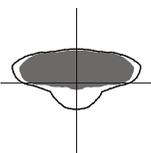
PRV-M-PA6X



### Optical Distributions

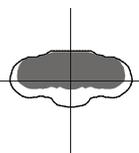
T2R

(Type II Roadway)



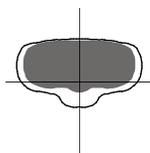
T2U

(Type II Urban)



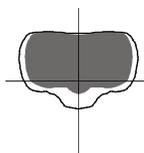
T3

(Type III)



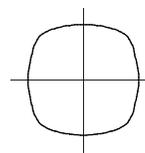
T4W

(Type IV Wide)



5WQ

(Type V Square Wide)



■ = Distribution with House Side Shield (HSS)  
□ = Optical Distribution

## Product Specifications

### Construction

- Single-piece die-cast aluminum housing
- Tethered die-cast aluminum door

### Optics

- Dark Sky Approved (3000K CCT and warmer only)
- Precision molded polycarbonate optics

### Electrical

- -40°C minimum operating temperature
- 40°C maximum operating temperature
- >.9 power factor
- <20% total harmonic distortion
- Class 1 electronic drivers have expected life of 100,000 hours with <1% failure rate
- 0-10V dimming driver is standard with leads external to the fixture
- Standard MOV surge protective device designed to withstand 10kV of transient line surge

- Luminaire available with the field adjustable dimming controller (FADC) to manually adjust wattage and reduce the total lumen output and light levels; Comes pre-set to the highest position at the lumen output selected

### Mounting

- Versatile, patented, standard mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8" (Type M drilling recommended for new installations)
- A knock-out on the standard mounting arm enables round pole mounting
- Adjustable pole and wall mount arms adjust in 5° increments from 0° to 60°; Downward facing orientation only (Type N drilling required for ADJA mount)
- Adjustable slipfitter arm adjusts in 5° increments from -5° to 85°; Downward facing orientation only
- Prevail and Prevail Petite: 3G vibration rated (all arms)
- Prevail XL Mast Arm: 3G vibration rated

- Prevail XL Standard Arm: 1.5G vibration rated
- Adjustable Arms: 1.5G vibration rated

### Finish

- Five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Finish is compliant to 3,000 hour salt spray standard (per ASTM B117)

### Typical Applications

- Parking lots, Walkways, Roadways and Building Areas

### Shipping Data

- Prevail Petite: 18 lbs. (7.94 kgs.)
- Prevail: 20 lbs. (9.09 kgs.)
- Prevail XL: 45 lbs. (20.41 kgs.)
- Prevail Maxx: 49 lbs. (22.23 kgs.)

### Warranty

- Five year limited warranty, consult website for details. [www.cooperlighting.com/legal](http://www.cooperlighting.com/legal)

Energy and Performance Data

Power and Lumens

[View PRV-P IES files](#)

[View PRV IES files](#)

[View PRV-XL IES files](#)

Product Family		Prevail Petite				Prevail				Prevail XL				Prevail Maxx			
Light Engine		PA1A	PA1B	PA1C	PA1D	PA1A	PA1B	PA2A	PA2B	PA3A	PA3B	PA4A	PA4B	PA6A	PA6B	PA6C	PA6D
Power (Watts)		31	53	72	93	54	74	113	151	172	234	245	303	274	366	457	544
Drive Current (mA)		375	670	930	1200	670	930	720	970	750	980	785	970	600	800	1000	1200
Input Current @ 120V (A)		0.26	0.44	0.60	0.78	0.45	0.62	0.93	1.26	1.44	1.95	2.04	2.53	2.30	3.05	3.83	4.54
Input Current @ 277V (A)		0.12	0.20	0.28	0.35	0.21	0.28	0.41	0.55	0.62	0.85	0.93	1.12	0.99	1.30	1.62	1.94
Input Current @ 347V (A)		0.10	0.17	0.23	0.29	0.17	0.23	0.33	0.45	0.52	0.70	0.74	0.90	0.78	1.05	1.32	1.60
Input Current @ 480V (A)		0.07	0.13	0.17	0.22	0.12	0.17	0.24	0.33	0.39	0.52	0.53	0.65	0.58	0.76	0.95	1.14
<b>Distribution</b>																	
Type II Roadway	4000K/5000K Lumens	4,505	7,362	9,495	11,300	7,605	9,896	15,811	19,745	24,718	30,648	34,067	39,689	41,611	52,596	61,921	67,899
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	147	139	132	121	141	134	141	131	144	131	139	131	152	144	135	125
	3000K Lumens <sup>1</sup>	4,103	6,705	8,647	10,291	6,926	9,012	14,399	17,982	22,511	27,912	31,025	36,145	37,896	47,900	56,392	61,837
Type II Roadway w/ HSS	4000K/5000K Lumens	3,727	6,091	7,855	9,349	6,006	7,815	12,487	15,594	19,521	24,204	26,094	31,334	32,874	41,553	48,919	53,642
	BUG Rating	B0-U0-G1	B0-U0-G2	B0-U0-G2	B1-U0-G2	B0-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G4	B1-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5
	Lumens per Watt	121	115	109	100	111	106	111	103	113	103	107	103	120	114	107	99
	3000K Lumens <sup>1</sup>	3,394	5,547	7,154	8,514	5,470	7,117	11,372	14,201	17,778	22,043	24,502	28,545	29,939	37,843	44,552	48,853
Type II Urban	4000K/5000K Lumens	4,496	7,347	9,476	11,277	7,597	9,886	15,795	19,724	24,692	30,616	34,031	39,647	41,372	52,294	61,565	67,509
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	146	139	131	121	141	134	141	131	144	131	139	131	151	143	135	124
	3000K Lumens <sup>1</sup>	4,095	6,691	8,630	10,271	6,919	9,003	14,384	17,963	22,488	27,882	30,992	36,107	37,678	47,625	56,068	61,481
Type II Urban w/ HSS	4000K/5000K Lumens	3,253	5,316	6,856	8,160	5,297	6,893	11,013	13,753	17,217	21,347	23,728	27,644	28,951	36,594	43,082	47,241
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
	Lumens per Watt	106	101	95	87	98	93	97	91	100	91	97	91	106	100	94	87
	3000K Lumens <sup>1</sup>	2,963	4,841	6,244	7,431	4,824	6,277	10,029	12,525	15,680	19,441	21,609	25,176	26,366	33,327	39,235	43,023
Type III	4000K/5000K Lumens	4,443	7,261	9,364	11,145	7,575	9,857	15,749	19,667	24,621	30,527	33,932	39,532	41,155	52,020	61,242	67,155
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	145	138	130	119	140	133	141	130	143	130	138	130	150	142	134	123
	3000K Lumens <sup>1</sup>	4,046	6,612	8,528	10,150	6,899	8,977	14,343	17,911	22,423	27,802	30,903	36,002	37,480	47,375	55,774	61,159
Type III w/ HSS	4000K/5000K Lumens	3,406	5,566	7,179	8,543	5,592	7,277	11,626	14,519	18,176	22,536	25,049	29,183	30,159	38,121	44,879	49,212
	BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	111	105	100	91	104	98	103	96	106	96	102	96	110	104	98	90
	3000K Lumens <sup>1</sup>	3,102	5,069	6,538	7,781	5,093	6,627	10,588	13,222	16,553	20,524	22,813	26,578	27,466	34,717	40,872	44,818
Type IV Wide	4000K/5000K Lumens	4,348	7,106	9,164	10,906	7,484	9,738	15,560	19,431	24,325	30,161	33,525	39,057	41,207	52,086	61,320	67,240
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	142	135	127	117	139	132	139	129	141	129	137	129	151	142	134	124
	3000K Lumens <sup>1</sup>	3,960	6,471	8,346	9,932	6,816	8,869	14,170	17,696	22,153	27,468	30,531	35,570	37,528	47,435	55,845	61,236
Type IV Wide w/ HSS	4000K/5000K Lumens	3,318	5,422	6,993	8,323	5,420	7,053	11,268	14,072	17,617	24,843	24,279	28,286	30,005	37,926	44,650	48,961
	BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	108	103	97	89	100	95	100	93	102	106	99	93	110	104	98	90
	3000K Lumens <sup>1</sup>	3,022	4,938	6,369	7,580	4,936	6,423	10,262	12,816	16,044	19,892	22,111	25,760	27,326	34,540	40,664	44,589
Type V Square Wide	4000K/5000K Lumens	4,497	7,349	9,478	11,280	7,831	10,190	16,281	20,332	25,453	31,559	35,079	40,868	42,947	54,285	63,909	70,079
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B3-U0-G2	B4-U0-G3	B4-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	146	139	131	121	145	138	145	135	148	135	143	135	157	143	136	129
	3000K Lumens <sup>1</sup>	4,095	6,693	8,632	10,273	7,132	9,280	14,827	18,517	23,180	28,741	31,947	37,219	39,112	49,438	58,203	63,822

NOTES:  
1. For 3000K or HSS BUG Ratings, refer to published IES files

## Energy and Performance Data

House Side Shield Reference Table

Product Family		Prevail	Prevail		Prevail XL		Prevail Maxx
Light Engine		PA1	PA1	PA2	PA3	PA4	PA6
Rotated Optics	Standard	HSS-HP (Qty 1)	HSS-VP (Qty 1)	HSS-HP (Qty 2)	HSS-HP (Qty 3)	HSS-VP (Qty 4)	HSS-HP (qty 6)
	L90 or R90 option	HSS-VP (Qty 1)	HSS-HP (Qty 1)	HSS-VP (Qty 2)	HSS-VP (Qty 3)	HSS-HP (Qty 4)	HSS-VP (qty 6)

Sensor Color Reference Table (SPBx)

Housing Finish	Sensor Color
AP=Grey	Grey
BZ=Bronze	Bronze
BK=Black	Black
DP=Dark Platinum	Grey
GM=Graphite Metallic	Black
WH=White	White

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

FADC Settings

FADC Postion	Percent of Typical Lumen Output
1	25%
2	48%
3	55%
4	62%
5	72%
6	77%
7	82%
8	85%
9	90%
10	100%

Note: +/-5% typical value

Lumen Maintenance

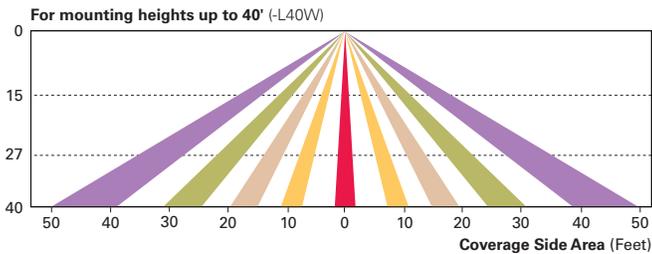
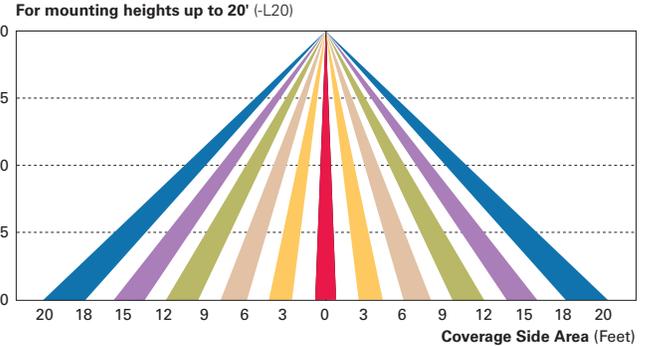
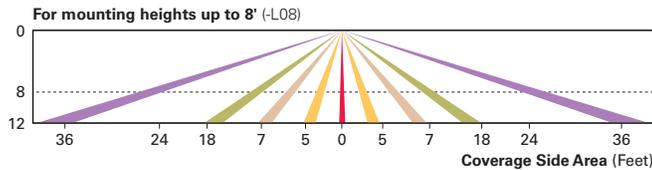
Ambient Temperature	TM-21 Lumen Maintenance (78,000 Hours)	Theoretical L70 (Hours)
Up to 50°C	96.76%	> 896,000

### Control Options

**0-10V** This fixture provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

**Photocontrol** (PR and PR7) Photocontrol receptacles provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-PIN standards can be utilized with the PR7 receptacle.

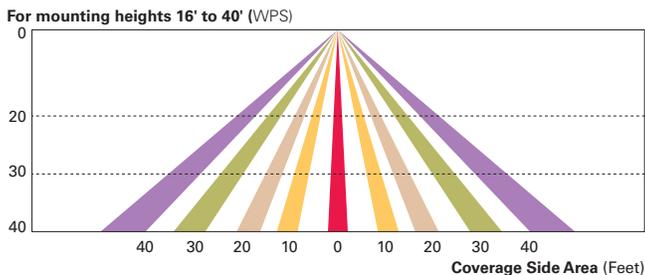
**Dimming Occupancy Sensor** (SPB, MS/DIM-LXX) These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the luminaire will dim down after five minutes of no activity detected. When activity is detected, the luminaire returns to full light output. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or "daylight harvesting." Factory default is enabled for the MS sensors and disabled for the SPB. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes.



**WaveLinx Wireless Control and Monitoring System** Available in 7-PIN or 4-PIN configurations, the WaveLinx Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets).

**WaveLinx Outdoor Control Module (WOLC-7P-10A)** A photocontrol that enables astronomical or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

**WaveLinx PRO Wireless Sensor (WPS2 and WPS4)** These outdoor sensors offer passive infrared (PIR) occupancy sensing and a photocell for closed-loop daylight sensing. These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected, and the photocell for "dusk-to-dawn" control is default enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.



**LumenSafe (LD)** The LumenSafe integrated network camera is a streamlined, outdoor-ready camera that provides high definition video surveillance. This IP camera solution is optimally designed to integrate into virtually any video management system or security software platform of choice. No additional wiring is needed beyond providing line power to the luminaire. LumenSafe features factory-installed power and networking gear in a variety of networking options allowing security integrators to design the optimal solution for active surveillance.

# Spec Sheets

## SQUARE STRAIGHT STEEL POLES

### Specifications, Options, and Accessories

United Lighting Standard's Square Straight Steel Poles are engineered to meet the rigorous demands of the natural environment. The Information below can be used to determine the exact pole needed for a variety of lighting applications.

Please note that standards mounted on structures (parking garages, buildings, bridges, piers, etc.) require factory consultation.

#### Pole Shaft Specifications

- The pole shaft is one-piece construction — fabricated from a weldable-grade carbon steel structural tubing with a uniform wall thickness. The pole shaft material shall conform to ASTM A-500 Grade B with a minimum yield strength of 46,000 psi. It has a full-length longitudinal resistance weld and is uniformly square in cross section with flat sides, small corner radii, and excellent torsional properties.

#### Base Plate Cover

- For our anchor-base designs, a full base cover is supplied. The base cover is made of automotive structural grade ABS plastic with a UV inhibitor to eliminate color fading. It is rust proof and tamper resistant.

#### Anchor Bolts

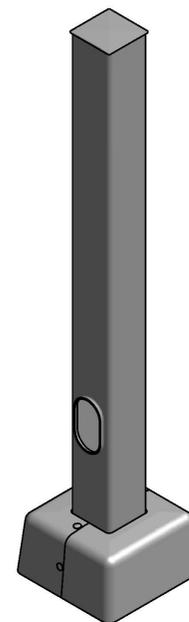
- Complete sets of (4) anchor bolts are included with each of our poles. The size of the bolts are determined by the pole type. Our 3/4" anchor bolts are fully galvanized. All other sizes are partially galvanized on the threaded side of the bolt only. Fully galvanized bolts are available upon request.

#### Direct Burial

- For embedded designs, an optional alkali-resistant, coal-tar epoxy can be applied to the burial portion of embedded poles. Our direct-burial poles are supplied complete with a 2"x4" wiring slot below grade.

#### Hand Hole

- All of our straight steel poles come standard with a 3"x5" hand hole, centered at 14" above grade. Each pole comes with a complete ABS hand hole cover assembly to match the finish of the pole.



# Wind Loading Data: AASHTO

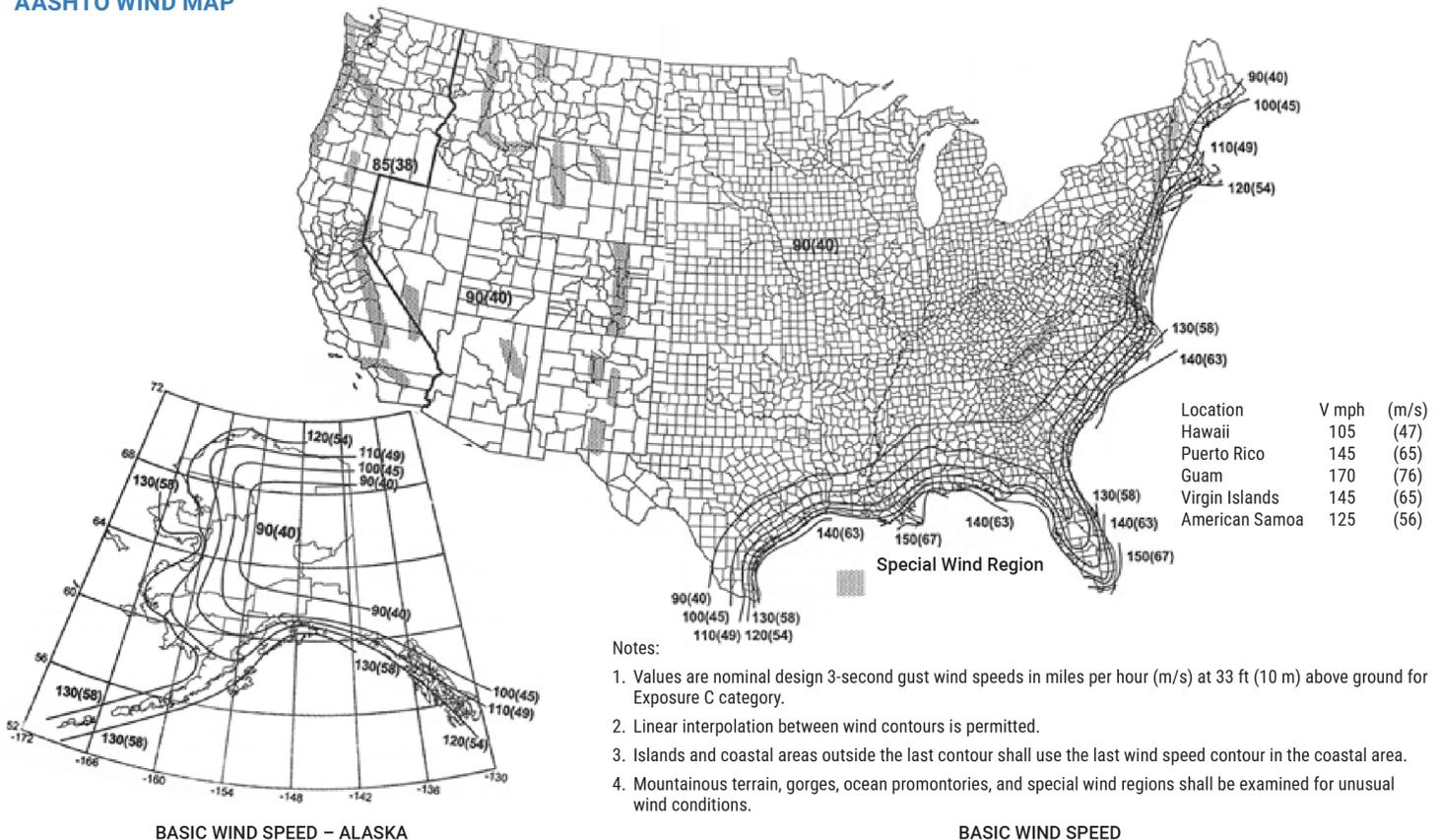
## 2013 AASHTO LTS-6

ULS PART #	Mounting Height (ft)	Diameter (A)x Wall (B)x Height (C)	Plate	Bolt Circle (Range)	Bolt Dia x Vertical x Horizontal	Max Luminaire Weight	Pole EPA Rating						
							80 MPH	90 MPH	100 MPH	110 MPH	120 MPH	130 MPH	140 MPH
RPSQ 10-4-11	10	4" x 11 ga. x 10'	8" x 0.75"	8.0/9.0" (8.5)	.75 x 17 x 3	200	35.7	27.6	21.8	17.6	14.3	11.8	9.8
RPSQ 12-4-11	12	4" x 11 ga. x 12'	8" x 0.75"	8.0/9.0" (8.5)	.75 x 17 x 3	200	28.6	21.9	17.1	13.5	10.8	8.7	7.1
RPSQ 14-4-11	14	4" x 11 ga. x 14'	8" x 0.75"	8.0/9.0" (8.5)	.75 x 17 x 3	200	23.3	17.6	13.5	10.5	8.2	6.4	5
RPSQ 15-4-11	15	4" x 11 ga. x 15'	8" x 0.75"	8.0/9.0" (8.5)	.75 x 17 x 3	200	21.1	15.8	12	9.2	7.1	5.4	4.1
RPSQ 16-4-11	16	4" x 11 ga. x 16'	8" x 0.75"	8.0/9.0" (8.5)	.75 x 17 x 3	200	19.1	14.2	10.7	8	6	4.5	3.3
RPSQ 18-4-11	18	4" x 11 ga. x 18'	8" x 0.75"	8.0/9.0" (8.5)	.75 x 17 x 3	200	15.6	11.3	8.2	5.9	4.2	2.8	1.8
RPSQ 20-4-11	20	4" x 11 ga. x 20'	8" x 0.75"	8.0/9.0" (8.5)	.75 x 17 x 3	200	12.5	8.7	6	4.1	2.6	1.4	0.4
RPSQ 20-4-7	20	4" x 7 ga. x 20'	8" x 0.75"	8.0/9.0" (8.5)	.75 x 17 x 3	200	19.4	14.3	10.7	8	5.9	4.3	3.1
RPSQ 25-4-11	25	4" x 11 ga. x 25'	8" x 0.75"	8.0/9.0" (8.5)	.75 x 17 x 3	200	6.7	3.9	1.9	0.4	N/A	N/A	N/A
RPSQ 25-4-7	25	4" x 7 ga. x 25'	8" x 0.75"	8.0/9.0" (8.5)	.75 x 17 x 3	200	8.7	8.7	6	3.9	2.3	1.1	N/A
RPSQ 20-5-11	20	5" x 11 ga. x 20'	11" x 0.75"	10.5/11.5" (11.0")	.75 x 17 x 3	200	19.3	13.8	9.8	6.9	4.7	3	1.6
RPSQ 20-5-7	20	5" x 7 ga. x 20'	11" x 1.00"	10.5/11.5" (11.0")	1 x 36 x 4	200	38	28.7	22	17.1	13.3	10.4	8.1
RPSQ 25-5-11	25	5" x 11 ga. x 25'	11" x 0.75"	10.5/11.5" (11.0")	.75 x 17 x 3	200	11.2	7.1	4.1	1.9	0.3	N/A	N/A
RPSQ 25-5-7	25	5" x 7 ga. x 25'	11" x 1.00"	10.5/11.5" (11.0")	1 x 36 x 4	200	25.6	18.6	13.6	9.9	7.1	4.9	3.1
RPSQ 30-5-11	30	5" x 11 ga. x 30'	11" x 0.75"	10.5/11.5" (11.0")	.75 x 17 x 3	200	5.4	2.2	N/A	N/A	N/A	N/A	N/A
RPSQ 30-5-7	30	5" x 7 ga. x 30'	11" x 1.00"	10.5/11.5" (11.0")	1 x 36 x 4	200	17.1	11.6	7.6	4.7	2.5	0.7	N/A
RPSQ 35-5-7	35	5" x 7 ga. x 35'	11" x 1.00"	10.5/11.5" (11.0")	1 x 36 x 4	200	10.7	6.2	3	0.6	N/A	N/A	N/A
RPSQ 25-6-7	25	6" x 7 ga. x 25'	12" x 1.00"	11.0/12.0" (11.5")	1 x 36 x 4	200	38.2	28.1	20.9	15.8	11.5	8.4	5.9
RPSQ 30-6-7	30	6" x 7 ga. x 30'	12" x 1.00"	11.0/12.0" (11.5")	1 x 36 x 4	200	26.9	18.8	13.1	8.8	5.5	3	1
RPSQ 35-6-7	35	6" x 7 ga. x 35'	12" x 1.00"	11.0/12.0" (11.5")	1 x 36 x 4	200	18.2	11.6	6.8	3.3	0.7	N/A	N/A
RPSQ 39-6-7	39	6" x 7 ga. x 39'	12" x 1.00"	11.0/12.0" (11.5")	1 x 36 x 4	200	6.7	6.6	2.6	N/A	N/A	N/A	N/A

For steel poles, we have the ability to modify the base plate to accommodate alternate bolt circles to fit existing anchor bolt patterns. Note that we can only increase the size to the standard bolt circle; we cannot accommodate decreased bolt circle sizes for our cataloged poles. Contact the factory with any questions. New anchor bolts should be set using factory-supplied anchor bolt templates.

Vibration dampeners are recommended for poles 25' and above.

### AASHTO WIND MAP



# Wind Loading Data: Florida Building Code

2020 FBC / ASCE-7

ULS PART #	Mounting Height (ft)	Diameter (A)x Wall (B)x Height (C)	Plate	Bolt Circle (Range)	Bolt Dia x Vertical x Horizontal	Max Luminaire Weight	Pole EPA Rating						
							120 MPH	130 MPH	140 MPH	150 MPH	160 MPH	170 MPH	180 MPH
RPSQ 10-4-11	10	4" x 11 ga. x 10'	8" x 0.75"	8.0/9.0" (8.5)	.75 x 17 x 3	200	31.1	26	22.1	18.9	16.2	14.1	12.2
						500	29.9	25	21.2	18.1	15.5	13.4	11.8
RPSQ 12-4-11	12	4" x 11 ga. x 12'	8" x 0.75"	8.0/9.0" (8.5)	.75 x 17 x 3	200	24.8	20.7	17.4	14.7	12.5	10.7	9.2
						500	23.8	19.8	16.6	14	11.9	10.2	8.7
RPSQ 14-4-11	14	4" x 11 ga. x 14'	8" x 0.75"	8.0/9.0" (8.5)	.75 x 17 x 3	200	20.3	16.7	13.8	11.5	9.7	8.1	6.8
						500	19.5	15.9	13.2	11	9.2	7.7	6.4
RPSQ 15-4-11	15	4" x 11 ga. x 15'	8" x 0.75"	8.0/9.0" (8.5)	.75 x 17 x 3	200	18.4	15	12.4	10.2	8.5	7	5.8
						500	17.5	14.3	11.8	9.7	8	6.6	5.4
RPSQ 16-4-11	16	4" x 11 ga. x 16'	8" x 0.75"	8.0/9.0" (8.5)	.75 x 17 x 3	200	16.5	13.4	10.9	8.9	7.3	6	4.8
						500	15.7	12.7	10.4	8.4	6.9	5.6	4.5
RPSQ 18-4-11	18	4" x 11 ga. x 18'	8" x 0.75"	8.0/9.0" (8.5)	.75 x 17 x 3	200	13.3	10.6	8.4	6.7	5.3	4.1	3.2
						500	12.6	10	7.9	6.3	4.9	3.8	2.9
RPSQ 20-4-11	20	4" x 11 ga. x 20'	8" x 0.75"	8.0/9.0" (8.5)	.75 x 17 x 3	200	10.6	8.3	6.4	4.9	3.6	2.6	1.7
						500	10	7.8	6	4.5	3.3	2.3	1.5
RPSQ 20-4-7	20	4" x 7 ga. x 20'	8" x 0.75"	8.0/9.0" (8.5)	.75 x 17 x 3	200	11.2	8.8	7	5.4	4.2	3.2	2.3
						500	10.6	8.3	6.5	5.1	3.8	2.9	2
RPSQ 25-4-11	25	4" x 11 ga. x 25'	8" x 0.75"	8.0/9.0" (8.5)	.75 x 17 x 3	200	5.7	3.9	2.4	1.3	0.3	N/A	N/A
						500	5.2	3.5	2	1	N/A	N/A	N/A
RPSQ 25-4-7	25	4" x 7 ga. x 25'	8" x 0.75"	8.0/9.0" (8.5)	.75 x 17 x 3	200	6.4	4.6	3.1	2	1	N/A	N/A
						500	5.9	4.2	2.8	1.7	0.8	N/A	N/A
RPSQ 20-5-11	20	5" x 11 ga. x 20'	11" x 0.75"	10.5/11.5" (11.0")	.75 x 17 x 3	200	13.8	10.8	8.3	6.3	4.7	3.4	2.3
						500	13.3	10.3	7.9	6	4.4	3.1	2
RPSQ 20-5-7	20	5" x 7 ga. x 20'	11" x 1.00"	10.5/11.5" (11.0")	1 x 36 x 4	200	33.2	27.4	22.7	19	15.9	13.3	11.2
						500	32.8	27.1	22.4	18.7	15.7	13.1	11
RPSQ 25-5-11	25	5" x 11 ga. x 25'	11" x 0.75"	10.5/11.5" (11.0")	.75 x 17 x 3	200	7.4	5	3.2	1.7	0.4	N/A	N/A
						500	6.9	4.7	2.8	1.4	N/A	N/A	N/A
RPSQ 25-5-7	25	5" x 7 ga. x 25'	11" x 1.00"	10.5/11.5" (11.0")	1 x 36 x 4	200	22.5	18	14.5	11.6	9.3	7.3	5.7
						500	22.2	17.7	14.2	11.4	9.1	7.1	5.5
RPSQ 30-5-11	30	5" x 11 ga. x 30'	11" x 0.75"	10.5/11.5" (11.0")	.75 x 17 x 3	200	2.7	0.8	N/A	N/A	N/A	N/A	N/A
						500	2.3	0.5	N/A	N/A	N/A	N/A	N/A
RPSQ 30-5-7	30	5" x 7 ga. x 30'	11" x 1.00"	10.5/11.5" (11.0")	1 x 36 x 4	200	15.1	11.5	8.6	6.3	4.5	2.9	1.6
						500	14.8	11.3	8.4	6.2	4.3	2.8	1.5
RPSQ 35-5-7	35	5" x 7 ga. x 35'	11" x 1.00"	10.5/11.5" (11.0")	1 x 36 x 4	200	9.5	6.5	4.2	2.3	0.7	N/A	N/A
						500	9.3	6.3	4	2.1	0.6	N/A	N/A
RPSQ 25-6-7	25	6" x 7 ga. x 25'	12" x 1.00"	11.0/12.0" (11.5")	1 x 36 x 4	200	22	17.3	13.6	10.5	8.1	6	4.3
						500	21.6	17	13.3	10.3	7.9	5.9	4.2
RPSQ 30-6-7	30	6" x 7 ga. x 30'	12" x 1.00"	11.0/12.0" (11.5")	1 x 36 x 4	200	13.9	10.1	7.2	4.7	2.8	1.1	N/A
						500	13.6	9.9	7	4.6	2.6	1	N/A
RPSQ 35-6-7	35	6" x 7 ga. x 35'	12" x 1.00"	11.0/12.0" (11.5")	1 x 36 x 4	200	7.8	4.7	2.2	N/A	N/A	N/A	N/A
						500	7.6	4.5	2	N/A	N/A	N/A	N/A
RPSQ 39-6-7	39	6" x 7 ga. x 39'	12" x 1.00"	11.0/12.0" (11.5")	1 x 36 x 4	200	3.7	1	N/A	N/A	N/A	N/A	N/A
						500	3.5	0.8	N/A	N/A	N/A	N/A	N/A

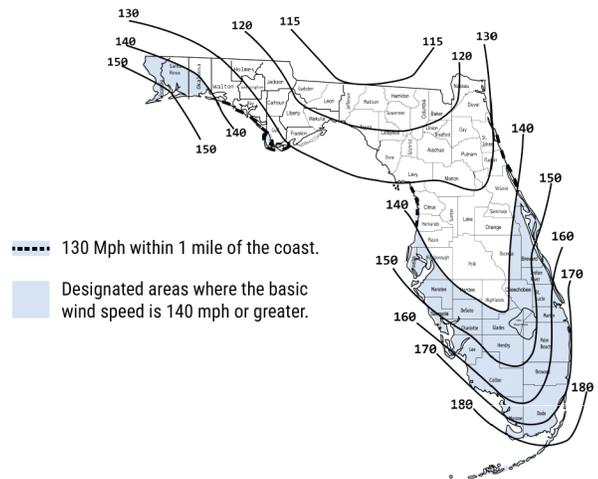
For steel poles, we have the ability to modify the base plate to accommodate alternate bolt circles to fit existing anchor bolt patterns. Note that we can only increase the size to the standard bolt circle; we cannot accommodate decreased bolt circle sizes for our cataloged poles. Contact the factory with any questions. New anchor bolts should be set using factory-supplied anchor bolt templates.

Vibration dampeners are recommended for poles 25' and above.

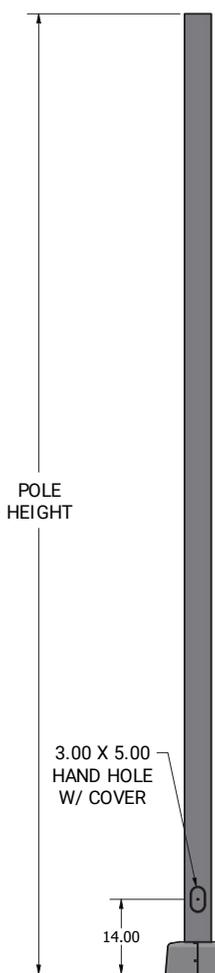
## FBC WIND MAP

Notes:

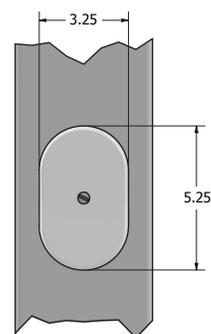
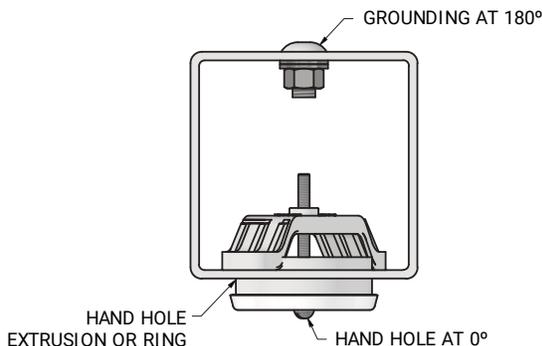
1. Values are nominal design 3-second gust wind speeds in miles per hour (m/s) at 33 ft (10 m) above ground for Exposure C category.
2. Linear interpolation between wind contours is permitted.
3. Islands and coastal areas outside the last contour shall use the last wind speed contour in the coastal area.
4. Mountainous terrain, gorges, ocean promontories, and special wind regions shall be examined for unusual wind conditions.
5. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (Annual Exceedance Probability = 0.00143, MRI = 700 years).
6. This map is accurate to the county. Local Governments establish specific wind speed/wind-borne debris lines using physical landmarks such as major roads, canals, rivers and shorelines.
7. Within 1 mile (1.61 km) of the mean high-water line where and Exposure D condition exists upwind at the waterline and the ultimate design wind speed,  $V_{ult}$  is 130 mph (58 m/s) or greater.
8. Location-specific wind speeds shall be permitted to be determined using the ASCE Wind Design Geodatabase. The ASCE Wind Design Geodatabase can be accessed at the ASCE 7 Hazard Tool (<https://asce7hazardtool.online>) or equivalent.



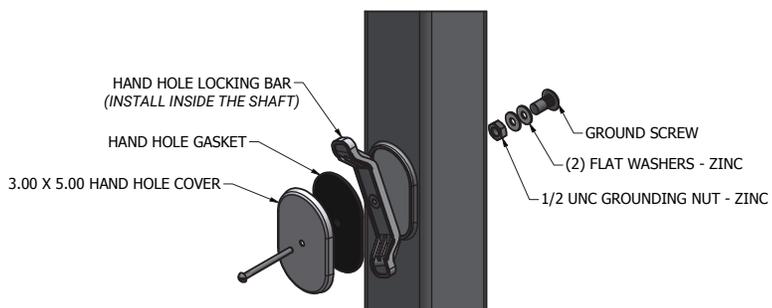
# Pole Details



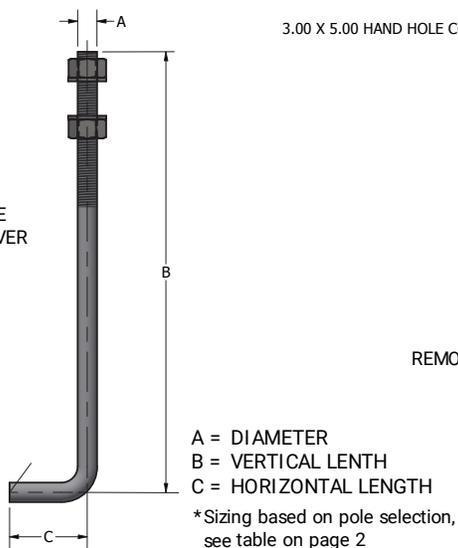
## Hand Hole Detail



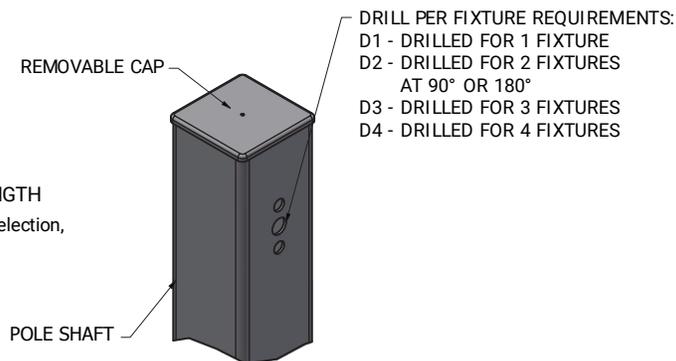
## Hand Hole Cover Assembly



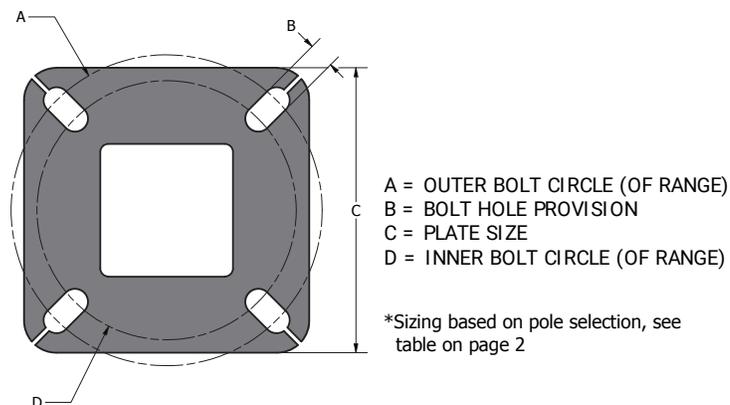
## Anchor Bolt Detail



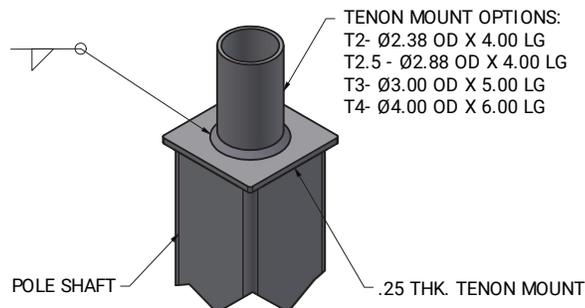
## Drill Mount Options



## Base Plate / Bolt Circle



## Tenon Mount Options



# Build Your Part Number

The information below allows you to pull together the exact part number for the Square Straight Steel Pole required for your application. Details about the various options and accessories available can be found on the following pages. Please note that each option and accessory must denote a mounting orientation (hand hole is at 0°) and height from base the of the pole.

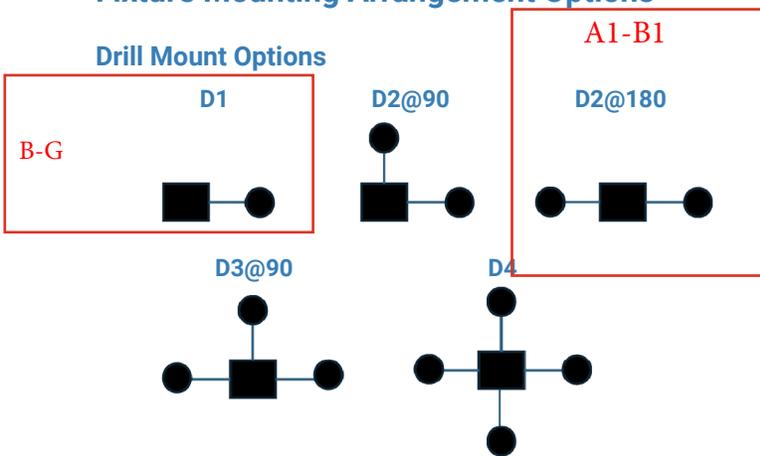
Catalog Number (found in wind load tables)				Mounting Type	Fixture Mounting Arrangement	Finish	Options			Accessories		
Design	Shaft Size	Wall Thickness	Mounting Height				Design	Orientation	Height From Base	Design	Orientation	Height From Base

## Mounting Type Options

AB = Anchor Base  
 EMB = Embedded (Direct Burial)

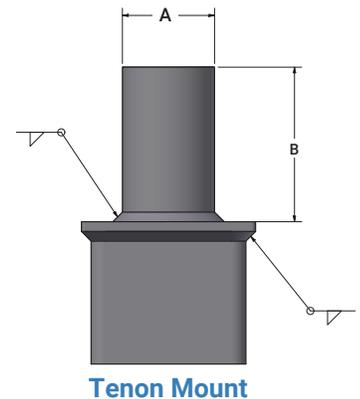
## Fixture Mounting Arrangement Options

### Drill Mount Options



### Tenon Mount Options

Design	Dia. (A)	Length (B)
T2	2.38"	4.00"
T2.5	2.88"	4.00"
T3	3.00"	5.00"
T4	4.00"	6.00"



## Finish Options

### Standard Finishes

- |                      |                              |                       |
|----------------------|------------------------------|-----------------------|
| DP = Dark Platinum   | TMB = Textured Medium Bronze | TGR = Textured Gray   |
| MG = Moss Green      | NB = New Bronze              | MA = Matte Aluminum   |
| WH = White           | SL = Silver                  | PSP = Platinum Silver |
| TWH = Textured White | MGY = Medium Gray            | BK = Black            |
| DB = Dark Bronze     | GR = Gray                    | TBK = Textured Black  |
| HB = Harvest Bronze  |                              |                       |

### Premium Finishes

- GM = Graphite Metallic
- DP = Dark Platinum
- MG = Moss Green

## Available Options

- |   |                                  |   |
|---|----------------------------------|---|
| CSBC = Custom Steel Base Cover                    | CMB = Camera Mounting Bracket    | XHH = Extra Hand Hole   |
| MODBASE = Modified Steel Base Plate               | CMP = Camera Mounting Plate      | FGAB = Fully Galvanized Anchor Bolts  |
| VD = Vibration Dampener                           | WB = Welded Bracket              | L/AB = Anchor Bolt Deduct   |
| GFI = Ground Fault Circuit Interrupter            | WC = Welded Coupling             | UL = UL Listed  |
| FESTOON = Switch or Receptacle Mounting Provision | WN = Welded Nipple               | CSA = CSA Listed  |
|   | PE = Pad Eye                     | BUY AMERICA = Buy America Act (BAA) Requirement for US-Sourced Steel (must be requested at time of order) |
|   | SCP = Shielded Circuit Provision |   |

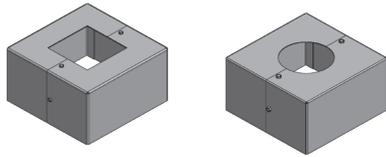
## Available Accessories

- BA = Banner Arm
- FH = Flag Holder
- FPH = Flower Pot Holder
- PTTA = Pole Top Tenon Adapter
- BAC = Breakaway Couplings
- TTAP = Two-Tier Adapter Plate

# Available Options Detail

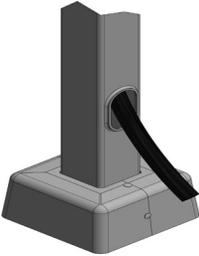
## Custom Steel Base Cover

Design	Description
CSBC	Custom Steel Base Cover



## Vibration Dampener\*

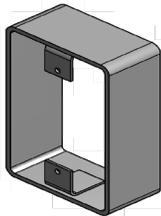
Design	Description
VD	Recommended for use with all poles 25' and higher



\*All vibration dampeners are plus freight if purchased and shipped separately.

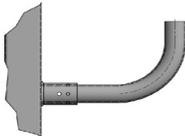
## Festoon - Switch or Receptacle Mounting Provision

Design	Description
FESTOON	Mounting provision for customer-supplied switch or standard receptacle.



## Welded Bracket

Design	Description
WB	2-3/8" OD Bent Slip-fit Pipe Bracket Welded on Pole



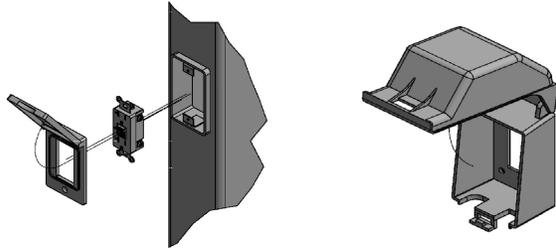
## Modified Steel Base Plate\*

Catalog Number	Description
MODBASE	Accommodate existing bolt patterns or other required specifications on steel poles. Plates can only be made to increase the standard bolt circle of a pole, smaller bolt circles cannot be accommodated. Bolt circle size must be provided to release an order.

\*Includes custom steel base cover to fit

## Ground Fault Circuit Interrupter\*

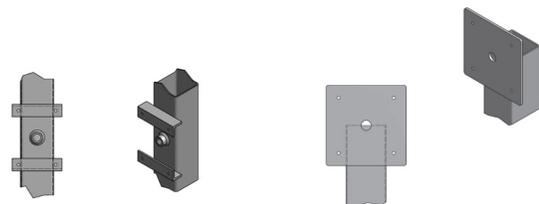
Design	Description
GFI	Weatherproof 15-20 amp, 125V A/C Recessed Ground Fault Circuit Interrupter with In Use Cover



\*Requires a mounting location of a minimum of 10" above hand hole to not affect the structural integrity of the pole.

## Mounting Bracket

Design	Description
CMB	Mounting Bracket
CMP	Mounting Plate



## Welded Coupling\*

Design	Description
WC	Threaded Pipe Coupling with Wire Hole Welded to Pole



\*See cutsheet on our website for available coupling sizes.

## Available Options Detail (continued)

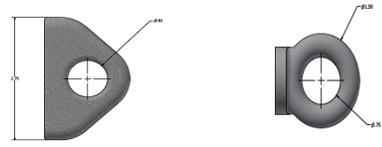
### Welded Nipple

Design	Description
WN	Threaded Pipe Nipple with Wire Hole Welded to Pole
	

### Shielded Circuit Provision

Design	Description
SCP	Shielded Circuit Mounting Provision
	

### Pad Eye

Design	Description
PE	Welded Padeye Provision Available in Aluminum or Steel to Match Pole
	

### Extra Hand Hole\*

Design	Description
XHH	Extra Hand Hole Provision Located as Specified on Order
	

\*Includes hand hole cover assembly.

### Fully Galvanized Anchor Bolts\*

Catalog Number	Description (in.)
FGAB	3/4" x 20"
	3/4" x 28"
	1" o.d.
	1.5" o.d.



\*3/4" x 20" standard bolt is fully galvanized, all other anchor bolts are partially galvanized on the threaded end only.

### Anchor Bolt Deduct – Used When Customer Does Not Want Anchor Bolts Shipped

Catalog Number	Description
L/AB	Deduct amount for all 3/4" anchor bolts (see pole type matrices for anchor bolt size)
	Deduct amount for all 1" anchor bolts (see pole type matrices for anchor bolt size)

### UL or CSA Listing

Catalog Number	Description
UL	Poles can be ordered to meet UL requirements. "UL" must appear in the part number. UL Listed poles include a metal hand hole cover and UL label.
CSA	Poles can be ordered to meet CSA requirements. "CSA" must appear in the part number. CSA approved poles include required grounding provision and CSA label.



LUMINAIRE POLE WITH RESPECT TO ELECTRICAL HAZARDS ONLY <E473617>



CLASS - 3426 03 - LUMINAIRES - LUMINAIRE POLES

CATALOG NUMBER

YEAR OF MANUFACTURE

SUITABLE FOR WET LOCATIONS.

# Available Accessories Detail

## Banner Arm – Includes Top And Bottom Arm

Catalog Number	Description
BA	Banner Arm 25" or 31"



## Flower Pot Holder

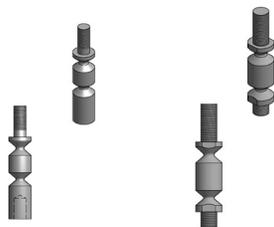
Catalog Number	Description
FPH	Flower Pot Holder



## Break Away Couplings\*

Catalog Number	To Fit Anchor Bolt Size (in.)
BAC-.75-SET	0.75 O.D.
BAC-1.0-SET	1.00 O.D.

\*Break away couplings provided with square skirt cover.



## Flag Holder

Catalog Number	Description
FH	Flag Holder



## Ptta – Square Pole Top Tenon Adapters

Catalog Number	Drill Mount Options	Height (in.)	Pole Size (in. sq.)
PTTA-4SQ-DXX	D1,D2,D3,D4	13	4
PTTA-5SQ-DXX	D1,D2,D3,D4	13	5
PTTA-6SQ-DXX	D1,D2,D3,D4	13	6



## Two-Tier Adapter Plate\*

Catalog Number	Min Bolt Circle (in.)	Max Bolt Circle (in.)	Included Base Cover
TTAP	-----	12	YES
TTAP-16	12	16	YES

\*Includes connecting hardware and Square Steel Base Cover

