

# MULTI-TENANT BUILDING

4706 E. WASHINGTON AVE.  
MADISON, WI 53704

## PROJECT DATA

LOCATION: 4706 E. WASHINGTON AVE.  
MADISON, WI 53704

REGULATING MUNICIPALITIES:  
CITY OF MADISON  
DANE COUNTY  
STATE OF WISCONSIN

BUILDING CODE:  
CITY OF MADISON ZONING ORDINANCES  
WISCONSIN ADMINISTRATIVE CODE  
2015 INTERNATIONAL BUILDING CODE  
ACCESSIBILITY ANSI A117.1 - 2009

PROJECT DESCRIPTION:  
MULTI-TENANT COMMERCIAL BUILDING, SINGLE STORY

OCCUPANCY TYPE:  
PRIMARY : M

CONSTRUCTION TYPE:  
TYPE VB

ALLOWABLE AREA & HEIGHT:  
HEIGHT (IBC TABLE 504.3) = 40 FEET ABOVE GRADE PLANE  
# STORIES (IBC TABLE 504.4) = 1 STORY  
AREA (IBC TABLE 506.2) = 9,000 SF / FLOOR

BUILDING AREA & HEIGHT:  
HEIGHT = 22 FEET 6 INCHES ABOVE GRADE PLANE  
# STORIES = 1 STORIES  
TOTAL AREA = 5,500 SF

NUMBER OF OCCUPANTS: (TABLE 1004.1.2)  
M OCCUPANCY:  
M OCCUPANCY = 5,500 SF/ 60 SF = 92 OCC

PARKING REQUIREMENTS:  
1 STALLS / 400 SF / OCCUPANTS = 14 STALLS  
1 VAN ACCESSIBLE STALLS REQUIRED  
1 ADA STALLS REQUIRED  
CROSS-PARKED WITH ADJACENT PROPERTY

2 BIKE PARKING STALLS REQUIRED  
TOTAL BIKE PARKING STALLS PROVIDED = 4

PLUMBING:  
ALL FIXTURES TO COMPLY WITH ICC A117.1

FIRE CONTROL:  
NON-SPRINKLERED  
PORTABLE FIRE EXTINGUISHERS (IBC SECTION 906)  
MAX DISTANCE = 75 FEET

SEPARATION:  
NON-SEPERATED USE

EXIT TRAVEL DISTANCE:  
NON-SPRINKLERED:  
B = 200 FT MAX TRAVEL (TABLE 1017.2)  
B = 75 FT COMMON PATH OF TRAVEL (1006.2.1)

EXITS:  
TWO EXISTS FROM BUILDING REQUIRED, TWO PROVIDED FROM EACH TENANT

ACCESSIBILITY:  
ALL FLOORS SHALL BE ACCESSIBLE IF GREATER THAN 1,500 SF  
ALL EXITS SHALL BE ACCESSIBLE  
FOLLOW IBC AND ANSI 117

## GENERAL PROJECT NOTES:

- DIMENSIONS ARE TO FACE OF STUD OR TO COLUMN CENTERLINE UNLESS NOTED OTHERWISE. VERIFY ALL EXISTING CONDITIONS AND ADJUST WALL DIMENSIONS ACCORDINGLY. CONTACT ARCHITECT WITH ANY DISCREPANCIES.
- CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY UPON DISCOVERING ANY DISCREPANCIES OR CONFLICTING INFORMATION IN THESE DOCUMENTS. CONTRACTOR SHALL CAREFULLY REVIEW AND COMPARE ALL DRAWINGS DURING THE BIDDING PERIOD AND BEFORE INSTALLATION OF THEIR WORK. ANY INCONSISTENCIES IN THE DRAWINGS SHALL BE REPORTED PROMPTLY TO THE ARCHITECT AND ENGINEER(S) FOR CLARIFICATION.
- DO NOT SCALE DRAWINGS. THE DRAWINGS ARE NOT NECESSARILY TO SCALE - USE GIVEN DIMENSIONS. DIMENSIONS TAKE PRECEDENCE OVER SCALE. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD.
- CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER IMMEDIATELY UPON DISCOVERING ANY UNANTICIPATED EXISTING SITE CONDITIONS AFFECTING THE EXECUTION OF THESE DOCUMENTS (SUCH AS HAZARDOUS MATERIALS, ETC.).
- CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE AND FEDERAL CODES AND REGULATIONS GOVERNING THIS PROJECT.
- JOB SITE SHALL BE BROOM SWEEPED AND CLEAN AT THE END OF EACH DAY. ALL DEBRIS SHALL BE PICKED UP AND DISPOSED OF PROPERLY INTO APPROVED CONTAINER.
- MAINTAIN DESIGNATED EGRESS ROUTES DURING CONSTRUCTION BY KEEPING CLEAR OF CONSTRUCTION DEBRIS AND CLEARLY MARKING THE PATH OF EGRESS TRAVEL.
- ALL MECHANICAL (HVAC), ELECTRICAL, AND PLUMBING ("MEP") DESIGN AND CONSTRUCTION TO BE BY A DESIGN-BUILD DELIVERY METHOD AND ARE SUBSEQUENTLY NOT PART OF THESE DOCUMENTS. IT IS THE MEP CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE GENERAL CONTRACTOR AND WITH THESE DRAWINGS THE FINAL DESIGN, RETROFIT AND INSTALLATION OF THESE SYSTEMS. NOTIFY THE ARCHITECT PRIOR TO MAKING ANY REVISIONS TO THE STRUCTURE OR ARCHITECTURAL FEATURES.
- ELECTRICIAN TO VERIFY NEW LIGHT FIXTURE LAYOUT AND SUBMIT LIGHTING ENERGY CALC'S AS REQUIRED PER CODE. REVIEW PLAN AND LIGHTING FIXTURE SELECTION WITH ARCHITECT.
- HVAC CONTRACTOR SHALL SUBMIT PROPER DESIGN DRAWINGS AS NEEDED FOR PLAN APPROVAL AND BUILDING PERMITS.
- ENSURE A CLEAR PATHWAY TO ALL EXISTS IS MAINTAINED AND SUSTAINED.
- WITHIN THIS DOCUMENT "NORTH, SOUTH, EAST, WEST" ARE REFERRED TO AS PROJECT NORTH AND MAY NOT BE TRUE NORTH
- ALL EXPOSED WOOD, OR IN CONTACT WITH CONC. OR MASONRY, SHALL BE PRESSURE TREATED
- VERIFY ALL ROUGH OPENINGS WITH RESPECTIVE MFG
- PROVIDE SOUND BATT INSULATION AT ALL DEMISING WALLS, SEPARATION WALLS, AND AT BATHROOM, AND MECHANICAL ROOM WALLS
- PROVIDE MOISTURE RESISTANT GWB AT ALL PLUMBING WALLS
- PROVIDE GFI OUTLETS NEAR WATER SOURCES AND AS REQUIRED BY CODE
- PROVIDE 2X BLOCKING AT ALL GRAB BAR LOCATIONS PER ANSI A117.1 2009
- FIELD VERIFY ALL CABINET LAYOUTS AND COORDINATE DIMENSIONS WITH SELECTED APPLIANCES AND FIXTURES. PROVIDE END PANELS AT ALL EXPOSED CABINET ENDS
- PROVIDE FIRE BLOCKING THROUGHOUT ENTIRE BUILDING PER IBC 717.2
- SUBMIT ALL FIXTURES, APPLIANCES, MATERIALS, SHOP DRAWINGS, PLAN MODIFICATIONS TO THE ARCHITECT FOR REVIEW AND APPROVAL

| SHEET INDEX           |                            |               |          |
|-----------------------|----------------------------|---------------|----------|
| SHEET NUMBER          | SHEET NAME                 | REVISIONS     |          |
|                       |                            | MARK          | DATE     |
| GENERAL               |                            |               |          |
| A0.1                  | COVER SHEET                | UDC SUBMITTAL | 19/03/28 |
| G1.0                  | EXISTING SITE              | UDC SUBMITTAL | 19/03/28 |
| G1.1                  | EXISTING CONDITIONS PHOTOS | UDC SUBMITTAL | 19/03/28 |
| CIVIL                 |                            |               |          |
| C1.0                  | EXISTING CONDITIONS        |               |          |
| C2.0                  | PROPOSED SITE PLAN         |               |          |
| C3.0                  | GRADING PLAN               |               |          |
| C3.1                  | EROSION CONTROL PLAN       |               |          |
| C4.0                  | UTILITY PLAN               |               |          |
| CIVIL - LANDSCAPE     |                            |               |          |
| LS1.1                 | LANDSCAPE PLAN             |               |          |
| CIVIL - SITE LIGHTING |                            |               |          |
| E1                    | SITE LIGHTING LAYOUT       |               |          |
| ARCHITECTURAL         |                            |               |          |
| A2.1                  | FIRST FLOOR PLAN           | UDC SUBMITTAL | 19/03/28 |
| A2.2                  | ROOF PLAN                  | UDC SUBMITTAL | 19/03/28 |
| A3.1                  | EXTERIOR ELEVATIONS        | UDC SUBMITTAL | 19/03/28 |
| A3.2                  | EXTERIOR RENDERING         | UDC SUBMITTAL | 19/03/28 |
| A3.3                  | EXTERIOR RENDERING         | UDC SUBMITTAL | 19/03/28 |

## PROJECT LOCATION



## BUILDING LOCATION



## PROJECT CONTACTS:

**OWNER:**  
GALWAY COMPANIES, LLC  
6430 BRIDGE RD. SUITE 230  
MADISON, WI 53713

**ARCHITECT:**  
SKETCHWORKS ARCHITECTURE, LLC  
7780 ELMWOOD AVE., STE 208  
MIDDLETON, WI 53562

**STRUCTURAL ENGINEER:**  
MP<sup>2</sup> STRUCTURAL ENGINEERS, LLC  
583 D'ONOFRIO DR. SUITE 201  
MADISON, WI 53719

**CIVIL ENGINEER:**  
PROFESSIONAL ENGINEERING, LLC  
818 N. MEADOWBROOK LANE  
WAUNAKEE, WI 53597

**CONTACT:**  
STEVE DORAN  
608-372-4006

**CONTACT:**  
BRAD KONING (ARCHITECT)  
608-836-7570

**CONTACT:**  
MARK LINDLOFF  
608-821-4770

**CONTACT:**  
ROXANNE JOHNSON, P.E.  
608-849-9378



**MULTI-TENANT BUILDING**

**NEW COMMERCIAL BUILDING  
4706 E. WASHINGTON AVE.  
MADISON, WI 53704**

**COVER SHEET**

## Project Status

|   |          |               |
|---|----------|---------------|
| A | 19/01/09 | PC SUBMITTAL  |
| C | 19/03/28 | UDC SUBMITTAL |

**A0.1**





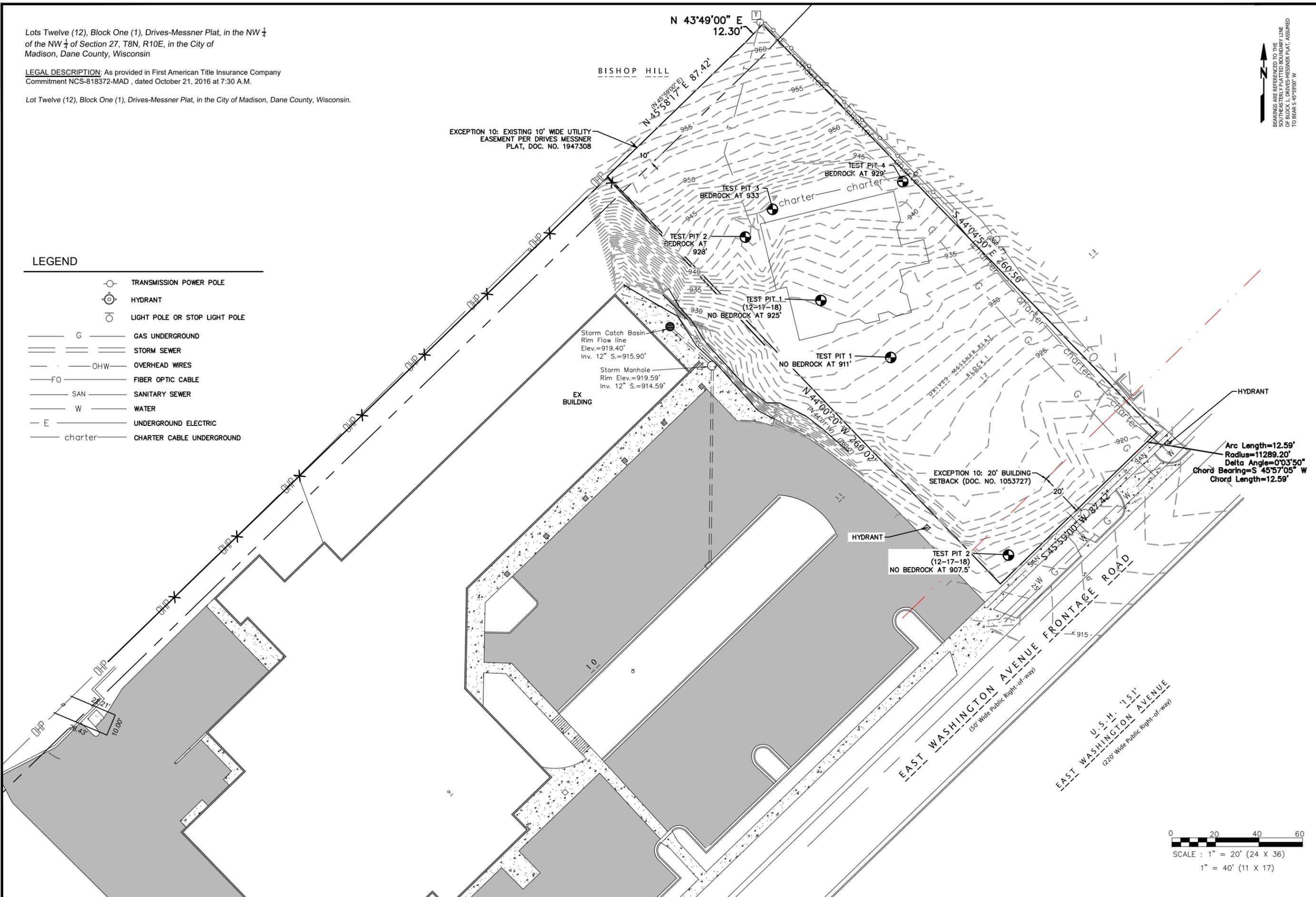
Lots Twelve (12), Block One (1), Drives-Messner Plat, in the NW 1/4 of the NW 1/4 of Section 27, T8N, R10E, in the City of Madison, Dane County, Wisconsin

LEGAL DESCRIPTION: As provided in First American Title Insurance Company Commitment NCS-818372-MAD, dated October 21, 2016 at 7:30 A.M.

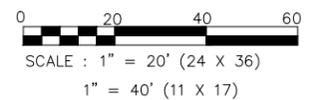
Lot Twelve (12), Block One (1), Drives-Messner Plat, in the City of Madison, Dane County, Wisconsin.

LEGEND

- TRANSMISSION POWER POLE
- HYDRANT
- LIGHT POLE OR STOP LIGHT POLE
- G GAS UNDERGROUND
- STORM SEWER
- OHW OVERHEAD WIRES
- FO FIBER OPTIC CABLE
- SAN SANITARY SEWER
- W WATER
- E UNDERGROUND ELECTRIC
- charter CHARTER CABLE UNDERGROUND



BEARINGS ARE REFERENCED TO THE SOUTHEASTERN PLATTED BOUNDARY LINE OF BLOCK 1, DRIVES-MESSNER PLAT, ASSUMED TO BEAR S 45°59'00" W



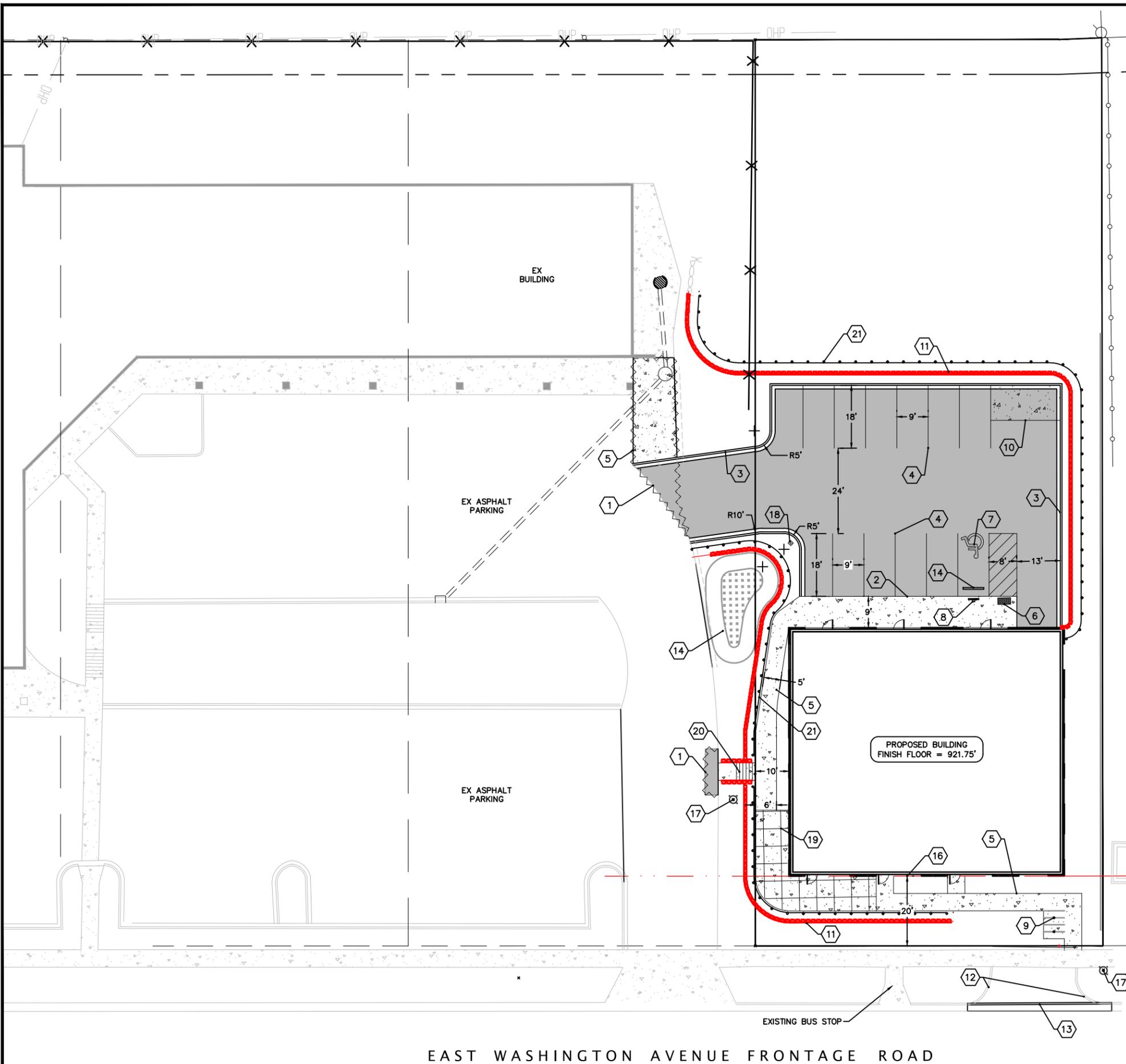
| ISSUANCE/REVISION | DATE     |
|-------------------|----------|
| UDC               | 03-27-19 |

818 N Meadowbrook Ln  
Waukegan, WI 53597  
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www.pe-wi.com

**PROFESSIONAL ENGINEERING** L7C

**4706 E WASHINGTON AVENUE**  
**EXISTING CONDITIONS**  
MADISON, WISCONSIN

**C1.0**



**PLAN KEY**

- ① CUT AND REMOVE EXISTING SIDEWALK/ASPHALT
- ② THICKENED EDGE SIDEWALK
- ③ 18" CURB AND GUTTER
- ④ 4" PAVEMENT STRIPING WITH TWO COATS OF TRAFFIC GRADE LATEX PAINT, TYP
- ⑤ SIDEWALK
- ⑥ DETECTABLE WARNING FIELD, TYP.
- ⑦ VAN ACCESSIBLE STALL, TYP.
- ⑧ VAN ACCESSIBLE PARKING SIGN, TYP.
- ⑨ BIKE RACK TO BE DERO PART# BH-FT-EPX BIKE RACKS SURFACE MOUNT POWDER COAT FINISH
- ⑩ TRASH ENCLOSURE, SEE ARCHITECTURAL PLANS
- ⑪ SEGMENTAL RETAINING WALL
- ⑫ REMOVE EXISTING CONCRETE APRON
- ⑬ 30" CURB AND GUTTER
- ⑭ 6' CONCRETE WHEEL STOP
- ⑮ BIORETENTION DEVICE
- ⑯ EXCEPTION 10: 20' BUILDING SETBACK DOC. NO. 1053727
- ⑰ EX HYDRANT
- ⑱ LIGHT POLE WITH CONCRETE BASE
- ⑲ OUTDOOR PATIO
- ⑳ STAIRS WITH HANDRAILS, SEE ARCHITECTURAL PLANS
- ㉑ GUARDRAIL, SEE ARCHITECTURAL PLANS

**PLAN KEY**

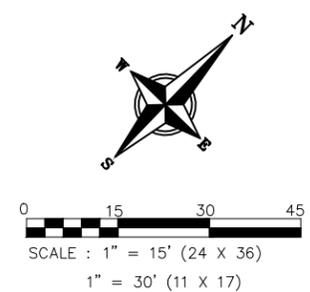
- PAVEMENT
- CONCRETE
- EX CONCRETE
- BIORETENTION POND
- SAW CUT

**LEGAL DESCRIPTION:** AS PROVIDED IN FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT NCS-818372-MAD , DATED OCTOBER 21, 2016 AT 7:30 A.M.

LOT TWELVE (12), BLOCK ONE (1), DRIVES-MESSNER PLAT, IN THE CITY OF MADISON, DANE COUNTY, WISCONSIN.

**SITE INFORMATION**

- SITE ADDRESS = 4706 E. WASHINGTON AVENUE
- SITE ACREAGE = 0.67 ACRES (29,050 SF)
- TOTAL IMPERVIOUS AREA = 15,566 SF
- IMPERVIOUS SURFACE % = 53.6%
- NUMBER OF STORIES (ABOVE GRADE) = 1 STORY
- BUILDING HEIGHT = 22'-6"
- DILHR TYPE OF CONSTRUCTION = VB
- TOTAL SQUARE FOOTAGE OF BUILDING = 5,530 SF
- NUMBER OF PARKING STALLS: 13 (1 HC)
- TOTAL BIKE PARKING: 4 STALLS



**EAST WASHINGTON AVENUE FRONTAGE ROAD**

|                   |          |
|-------------------|----------|
| ISSUANCE/REVISION | DATE     |
| UDC               | 03-27-19 |

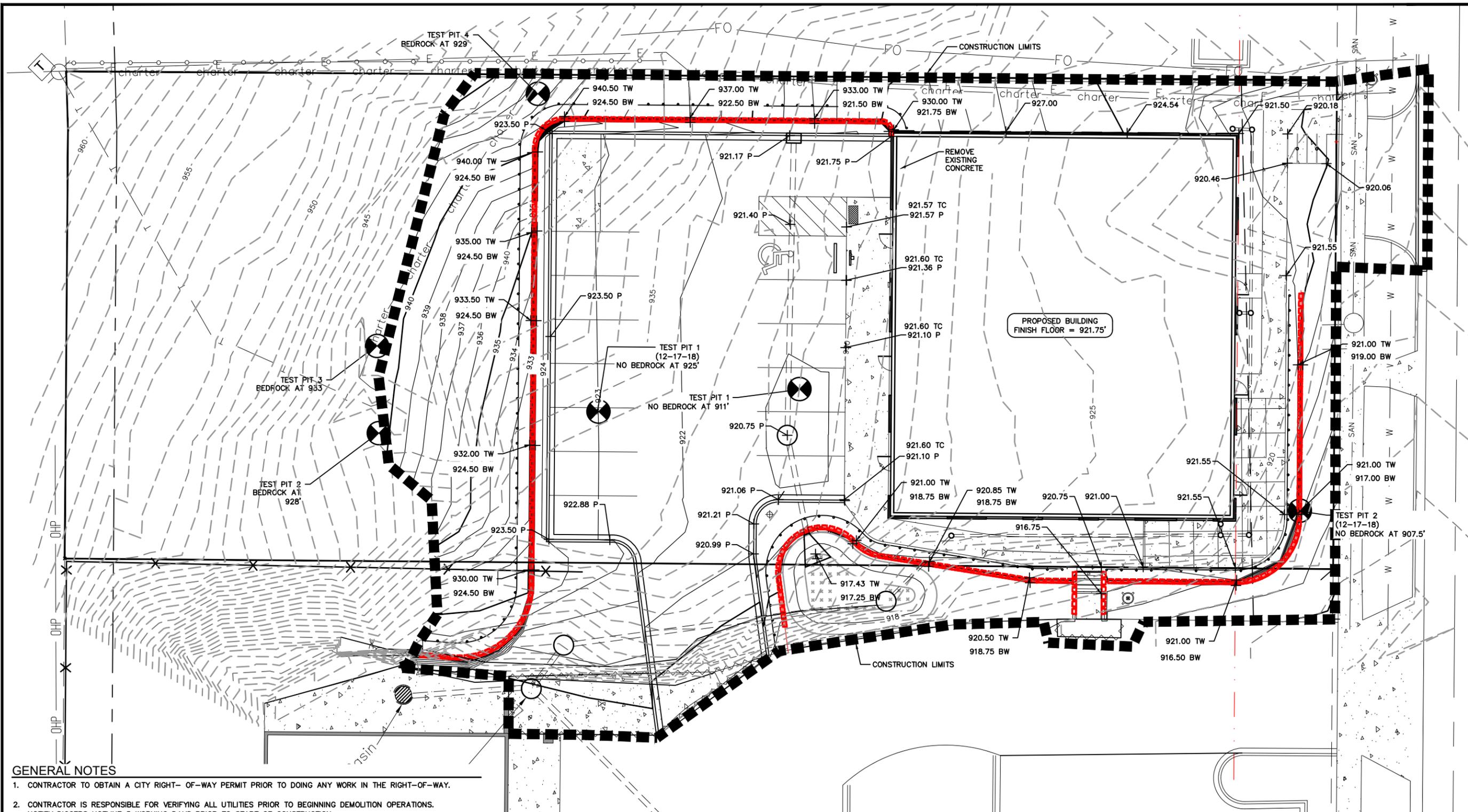
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**PROFESSIONAL ENGINEERING** LLC

**4706 E WASHINGTON AVENUE  
PROPOSED SITE PLAN**

MADISON, WISCONSIN

**C2.0**



**GENERAL NOTES**

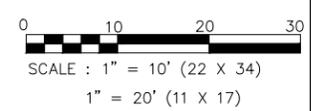
1. CONTRACTOR TO OBTAIN A CITY RIGHT- OF-WAY PERMIT PRIOR TO DOING ANY WORK IN THE RIGHT-OF-WAY.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES PRIOR TO BEGINNING DEMOLITION OPERATIONS. NOTIFY DIGGERS HOTLINE 5 WORKING DAYS PRIOR TO START OF CONSTRUCTION.
3. CONTRACTOR SHALL PROTECT ALL EXISTING FACILITIES (INCLUDING BUT NOT LIMITED TO ELECTRICAL, WATER, SANITARY, SIDEWALKS, SIDEWALK, ETC.) THAT ARE TO REMAIN.
4. INSTALL ALL REQUIRED EROSION CONTROL MEASURES FOR PERIMETER PROTECTION PRIOR TO THE START OF DEMOLITION/ CONSTRUCTION.
5. ALL EROSION CONTROL MEASURES INSTALLED SHALL BE MAINTAINED IN ACCORDANCE WITH THE LOCAL AND STATE GOVERNING AUTHORITIES.
6. ALL EROSION CONTROL ELEMENTS SHALL REMAIN IN PLACE UNTIL A SUFFICIENT GROWTH OF VEGETATION IS ESTABLISHED AND THEN BE REMOVED AS PART OF THE BASE BID.

**GRADING LEGEND**

- EXISTING CONTOUR
- PROPOSED CONTOUR
- X 800.00 P PAVEMENT ELEVATION
- X 800.00 FL FLOW LINE ELEVATION
- X 800.00 TW TOP OF RETAINING WALL ELEVATION
- X 800.00 BW BOTTOM OF RETAINING WALL ELEVATION
- X 800.00 SPOT ELEVATION

**GRADING NOTES**

1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL CITY SPECIFICATIONS.
2. CONTRACTOR SHALL CALL DIGGERS HOTLINE PRIOR TO ANY CONSTRUCTION.
3. ALL MATCHING PAVEMENT AND STORM SEWER ELEVATIONS SHALL BE VERIFIED IN THE FIELD TO ALLOW FOR PROPER DRAINAGE.
4. CONTOUR AND SPOT ELEVATIONS SHOWN ARE FINISH GRADE ELEVATIONS.
5. ALL LAWN AND PLANTING AREAS WHICH HAVE BEEN COMPACTED DUE TO CONSTRUCTION SHALL BE LOOSENEED PRIOR TO ADDITION OF TOPSOIL.



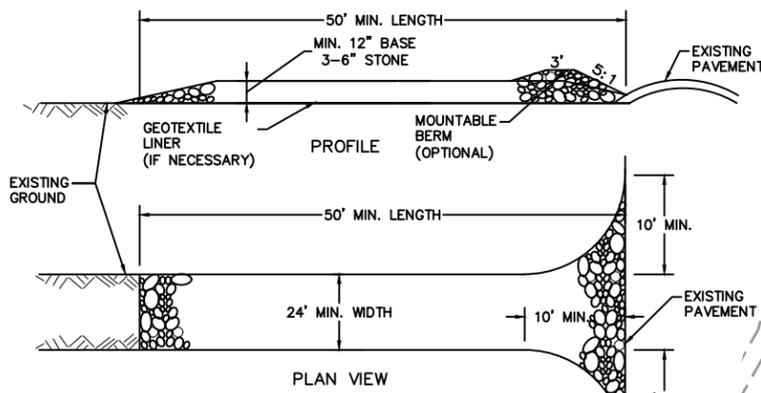
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**PROFESSIONAL ENGINEERING** LLC

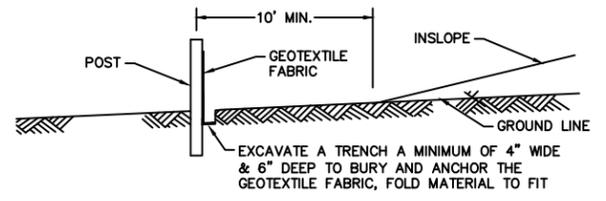
4706 E WASHINGTON AVENUE  
 GRADIGN PLAN  
 MADISON, WISCONSIN

DATE 03-27-19  
 UDC  
 ISSUANCE/REVISION

**C3.0**



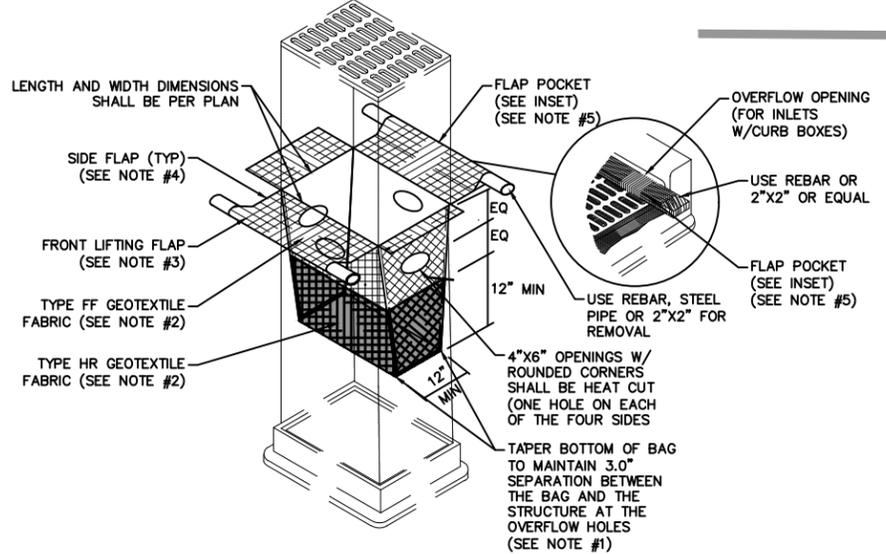
**1** STONE TRACKING PAD  
C3.1 NTS



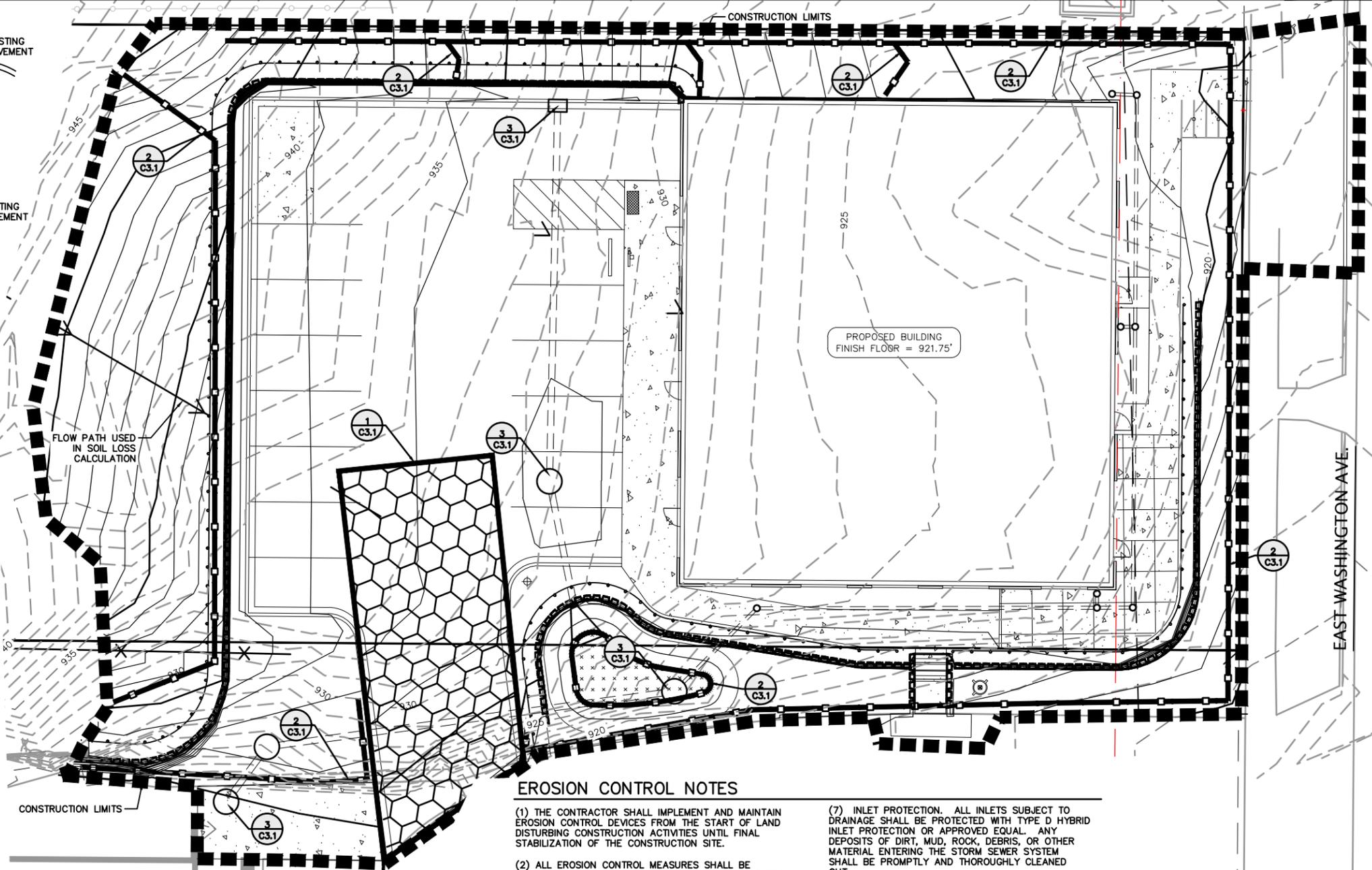
**2** SILT FENCE  
C3.1 NTS

**NOTES:**

1. TAPER BOTTOM OF BAG TO MAINTAIN THREE INCHES OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURAL WALL.
2. GEOTEXTILE FABRIC, TYPE FF FOR FLAPS AND TOP HALF OF FILTER BAG. GEOTEXTILE FABRIC, TYPE HR FOR BOTTOM HALF OF FILTER BAG WITH FRONT, BACK, AND BOTTOM BEING ONE PIECE.
3. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
4. SIDE FLAPS SHALL BE A MAXIMUM OF TWO INCHES LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.
5. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2"x2", THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.

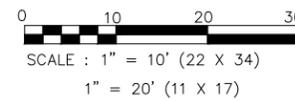


**3** INLET PROTECTIONS, TYPE D - HYBRID  
C3.1 NTS



**EROSION CONTROL NOTES**

- (1) THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN EROSION CONTROL DEVICES FROM THE START OF LAND DISTURBING CONSTRUCTION ACTIVITIES UNTIL FINAL STABILIZATION OF THE CONSTRUCTION SITE.
- (2) ALL EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH CITY EROSION CONTROL AND STORMWATER ORDINANCE AND THE APPROPRIATE WISCONSIN DNR CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL TECHNICAL STANDARDS. THE CITY RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES AS CONDITIONS WARRANT.
- (3) CLEANING. RIGHT-OF-WAY SURFACES SHALL BE THOROUGHLY CLEANED BEFORE THE END OF EACH WORKING DAY WITHOUT HYDRAULIC FLUSHING.
- (4) RESTORATION. RESTORATION SHALL BE COMPLETED AS NOTED IN THE CONSTRUCTION SCHEDULE UNLESS OTHERWISE AUTHORIZED BY THE CITY.
- (5) INSPECTION. THE CONTRACTOR SHALL INSPECT EROSION AND SEDIMENT CONTROL PRACTICES WEEKLY, AND WITHIN 24 HOURS FOLLOWING A RAINFALL OF 0.5 INCHES OR GREATER. DOCUMENTATION OF EACH INSPECTION SHALL INCLUDE THE TIME, DATE AND LOCATION OF INSPECTION, THE PHASE OF LAND DISTURBANCE AT THE CONSTRUCTION SITE, PERSON CONDUCTING THE INSPECTION, ASSESSMENT OF CONTROL PRACTICES, AND A DESCRIPTION OF ANY EROSION OR SEDIMENT CONTROL MEASURE INSTALLATION.
- (6) STONE TRACKING PAD. BEFORE BEGINNING CONSTRUCTION, CONTRACTOR SHALL INSTALL A STONE TRACKING PAD AT EACH POINT WHERE VEHICLES ENTERS/EXITS THE CONSTRUCTION SITE. STONE TRACKING PADS SHOULD BE AT LEAST 24 FEET WIDE AND 50 FEET LONG, AND CONSTRUCTED OF 3-6 INCH WASHED STONE WITH A DEPTH OF AT LEAST 12 INCHES. ON SITES WITH CLAY SOILS, STONE TRACKING PADS MUST BE UNDERLAIN WITH A GEOTEXTILE LINER TO PREVENT THE STONE FROM SINKING INTO THE SOIL.
- (7) INLET PROTECTION. ALL INLETS SUBJECT TO DRAINAGE SHALL BE PROTECTED WITH TYPE D HYBRID INLET PROTECTION OR APPROVED EQUAL. ANY DEPOSITS OF DIRT, MUD, ROCK, DEBRIS, OR OTHER MATERIAL ENTERING THE STORM SEWER SYSTEM SHALL BE PROMPTLY AND THOROUGHLY CLEANED OUT.
- (8) EROSION MAT. AREAS OR EMBANKMENTS HAVING SLOPES GREATER THAN OR EQUAL TO 4H:1V SHALL BE STABILIZED WITH WISCONSIN DOT CLASS 1, URBAN, TYPE B, EROSION MAT.
- (9) TEMPORARY EROSION CONTROL. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
- (10) STABILIZATION. STABILIZE AREAS OF FINAL GRADING WITHIN 7 DAYS OF REACHING FINAL GRADE.
- (11) TOPSOIL. A MINIMUM OF 4 INCHES OF TOPSOIL MUST BE APPLIED TO ALL AREAS TO BE SEEDDED OR SODDED.
- (12) SEEDING. SEED MIXTURE SHALL BE APPLIED AT A RATE OF 2 LBS PER 1,000 SF OF AREA OR AS NOTED ON THE LANDSCAPE PLAN.
- (13) STOCKPILES. IMMEDIATELY STABILIZE STOCKPILES AND SURROUND STOCKPILES AS NEEDED WITH SILT FENCE OR OTHER PERIMETER CONTROL IF STOCKPILES WILL REMAIN INACTIVE FOR 7 DAYS OR LONGER.



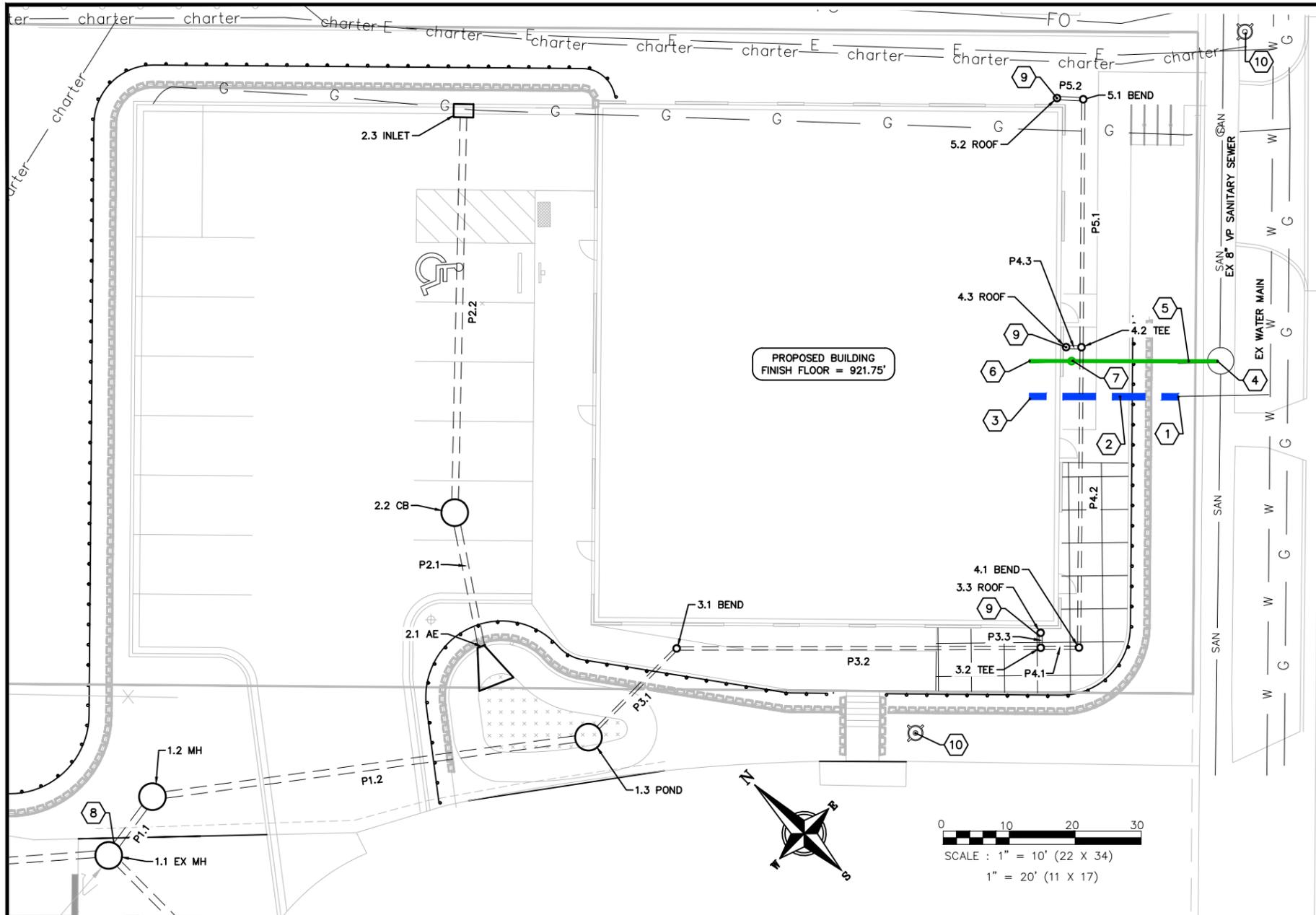
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|-------------------|----------|
| ISSUANCE/REVISION | DATE     |
| UDC               | 03-27-19 |

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**4706 E WASHINGTON AVENUE  
EROSION CONTROL PLAN**  
MADISON, WISCONSIN

**C3.1**



| STRUCTURE TABLE |                              |                |  |                              |                  |
|-----------------|------------------------------|----------------|--|------------------------------|------------------|
| STRUCTURE NAME  | SIZE                         | TOP OF CASTING | PIPES IN   | PIPES OUT                    | CASTING          |
| 1.1 EX MH       |                              | 919.59         | P1.1, 12"<br>INV IN =914.61                              |                              |                  |
| 1.2 MH          | 3-FT DIA.                    | 922.06         | P1.2, 12"<br>INV IN =914.63                              | P1.1, 12"<br>INV OUT =914.67 | NEENAH<br>R-1550 |
| 1.3 POND        | 3-FT DIA.                    | 917.75         | P3.1, 6"<br>INV IN =915.50                               | P1.2, 12"<br>INV OUT =915.00 | HAALA #CG36TM    |
| 2.1 AE          |                              | 918.50         | P2.1, 12"<br>INV IN =917.25                              |                              |                  |
| 2.2 CB          | 3-FT DIA.                    | 920.75         | P2.2, 12"<br>INV IN =917.51                              | P2.1, 12"<br>INV OUT =917.51 | NEENAH<br>R-2050 |
| 2.3 INLET       | 2X3-FT                       | 921.64         |  | P2.2, 12"<br>INV OUT =918.12 | NEENAH<br>R-3067 |
| 3.1 BEND        | BEND                         | 921.25         | P3.2, 6"<br>INV IN =915.88                               | P3.1, 6"<br>INV OUT =915.88  |                  |
| 3.2 TEE         | TEE                          | 921.60         | P4.1, 6"<br>INV IN =917.00<br>P3.3, 6"<br>INV IN =917.00 | P3.2, 6"<br>INV OUT =916.98  |                  |
| 3.3 ROOF        | CONNECT TO ROOF<br>DOWNSPOUT | 921.65         |  | P3.3, 6"<br>INV OUT =917.05  |                  |
| 4.1 BEND        | BEND                         | 921.65         | P4.2, 6"<br>INV IN =917.12                               | P4.1, 6"<br>INV OUT =917.12  |                  |
| 4.2 TEE         | TEE                          | 921.59         | P5.1, 6"<br>INV IN =918.03<br>P4.3, 6"<br>INV IN =918.03 | P4.2, 6"<br>INV OUT =918.03  |                  |
| 4.3 ROOF        | CONNECT TO ROOF<br>DOWNSPOUT | 921.59         |  | P4.3, 6"<br>INV OUT =918.08  |                  |
| 5.1 BEND        | BEND                         | 920.92         | P5.2, 6"<br>INV IN =918.41                               | P5.1, 6"<br>INV OUT =918.41  |                  |
| 5.2 ROOF        | CONNECT TO ROOF<br>DOWNSPOUT | 921.66         |  | P5.2, 6"<br>INV OUT =918.45  |                  |

EAST WASHINGTON AVE. SERVICE ROAD

**UTILITY NOTES**

- CONTRACTOR SHALL CALL DIGGERS HOTLINE PRIOR TO ANY CONSTRUCTION.
- ALL EXISTING UTILITIES SHOWN ON THE PLAN ARE APPROXIMATE AND WERE FIELD LOCATED FROM GROUND MARKING OR BASED OFF OF PREVIOUS PLANS. THE LOCATIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- ALL SITE UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS.
- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL OBTAIN A STREET OPENING PERMIT FOR ANY WORK TO BE DONE WITHIN THE RIGHT-OF-WAY.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PLUGGING/CONNECTION PERMITS FROM THE CITY OF MADISON PRIOR TO ANY UTILITY WORK. CONTRACTOR TO NOTIFY THE PUBLIC WORKS DEPARTMENT A MINIMUM OF 48 HOURS BEFORE CONNECTING TO PUBLIC UTILITIES.
- RESTORATION OF PAVEMENT, CURB & GUTTER, AND SIDEWALK WITHIN THE STREET RIGHT OF WAY IS CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE COST OF THE UNDERGROUND IMPROVEMENTS.
- ALL STORM SEWER PIPE TO BE SDR-35 AS NOTED ON THE STORM SEWER SCHEDULE. ALL BRANCH CONNECTIONS TO BE WYES WITH 45 DEGREE BENDS.
- CONTRACTOR SHALL CONFIRM CONNECTION ELEVATION GRADES OF ALL PIPES PRIOR TO BEGINNING CONSTRUCTION.
- PRIVATE WATER MAIN 4" AND LARGER SHALL BE DUCTILE IRON OR C900 PVC. WATER SERVICES 2" AND SMALLER SHALL BE TYPE K, COPPER.
- SANITARY SEWER SERVICES SHALL BE SDR-35 PVC.
- ANY PERSON WHO INSTALLS A NONCONDUCTIVE WATER OR SEWER LATERAL MUST ALSO INSTALL A LOCATION WIRE OR OTHER EQUALLY EFFECTIVE MEANS FOR MARKING THE LOCATION OF THE LATERAL. METHOD SHALL BE APPROVED BY THE CITY.
- CONTRACTOR TO COORDINATE NEW, RELOCATED AND/OR ABANDONED GAS, ELECTRIC, TELEPHONE, AND CABLE WITH APPROPRIATE UTILITY COMPANIES.
- UTILITIES SERVING PROPOSED BUILDINGS SHALL BE STUBBED WITHIN 5' OF THE PROPOSED BUILDING(S) AND STAKED.
- ALL WATER MAIN PIPE AND FITTINGS SHALL BE INSTALLED TO A MIN. DEPTH OF COVER OF 6.5'. AFTER REGRADING, EXISTING WATER MAIN PIPE WHICH DOES NOT MEET THIS REQUIREMENT SHALL BE INSULATED.
- STORM SEWERS WHICH CROSS AN ACTIVE SEWER OR WATER MAIN OR LATERAL SHALL HAVE A MINIMUM CLEAR VERTICAL CLEARANCE OF THREE (3) FEET. CROSSINGS WITH LESSER VERTICAL CLEARANCE SHALL BE PROTECTED FROM FROST DAMAGE BY PLACEMENT OF 2-INCH THICK POLYSTYRENE BOARD INSULATION.
- BUILDING PLUMBER SHALL VERIFY SIZE, SLOPE, AND EXACT LOCATION OF PROPOSED SANITARY LATERALS AND WATER SERVICES PRIOR TO INSTALLATION.
- CONTRACTOR RESPONSIBLE FOR TRAFFIC CONTROL FOR WORK IN THE RIGHT-OF-WAY

**PLAN KEY**

- CONNECT TO EXISTING WATER LATERAL PER CITY REQUIREMENTS
- 1.5" WATER SERVICE
- CONNECT TO BUILDING WATER SERVICE
- CONNECT TO EXISTING MANHOLE PER CITY REQUIREMENTS
- 6" SANITARY SEWER AT 1.04% SLOPE MINIMUM
- CONNECT TO SANITARY BUILDING SEWER, SEE PLUMBING PLANS
- CLEANOUT
- CONNECT TO EXISTING STORM MANHOLE
- CONNECT TO ROOF DOWNSPOUT
- EXISTING HYDRANT

**PIPE TABLE**

| NAME | SIZE | LENGTH | SLOPE | MATERIAL | START INVERT ELEVATION | END INVERT ELEVATION |
|------|------|--------|-------|----------|------------------------|----------------------|
| P1.1 | 12"  | 12'    | 0.55% | SDR 35   | 914.67'                | 914.61'              |
| P1.2 | 12"  | 67'    | 0.55% | SDR 35   | 915.00'                | 914.63'              |
| P2.1 | 12"  | 21'    | 1.28% | SDR 35   | 917.51'                | 917.25'              |
| P2.2 | 12"  | 61'    | 1.00% | SDR 35   | 918.12'                | 917.51'              |
| P3.1 | 6"   | 19'    | 2.00% | SDR 35   | 915.88'                | 915.50'              |
| P3.2 | 6"   | 56'    | 2.00% | SDR 35   | 916.98'                | 915.88'              |
| P3.3 | 6"   | 3'     | 2.00% | SDR 35   | 917.05'                | 917.00'              |
| P4.1 | 6"   | 6'     | 2.00% | SDR 35   | 917.12'                | 917.00'              |
| P4.2 | 6"   | 46'    | 2.00% | SDR 35   | 918.03'                | 917.12'              |
| P4.3 | 6"   | 3'     | 2.00% | SDR 35   | 918.08'                | 918.03'              |
| P5.1 | 6"   | 38'    | 1.00% | SDR 35   | 918.41'                | 918.03'              |
| P5.2 | 6"   | 4'     | 1.00% | SDR 35   | 918.45'                | 918.41'              |

4706 E WASHINGTON AVENUE  
UTILITY PLAN

MADISON, WISCONSIN

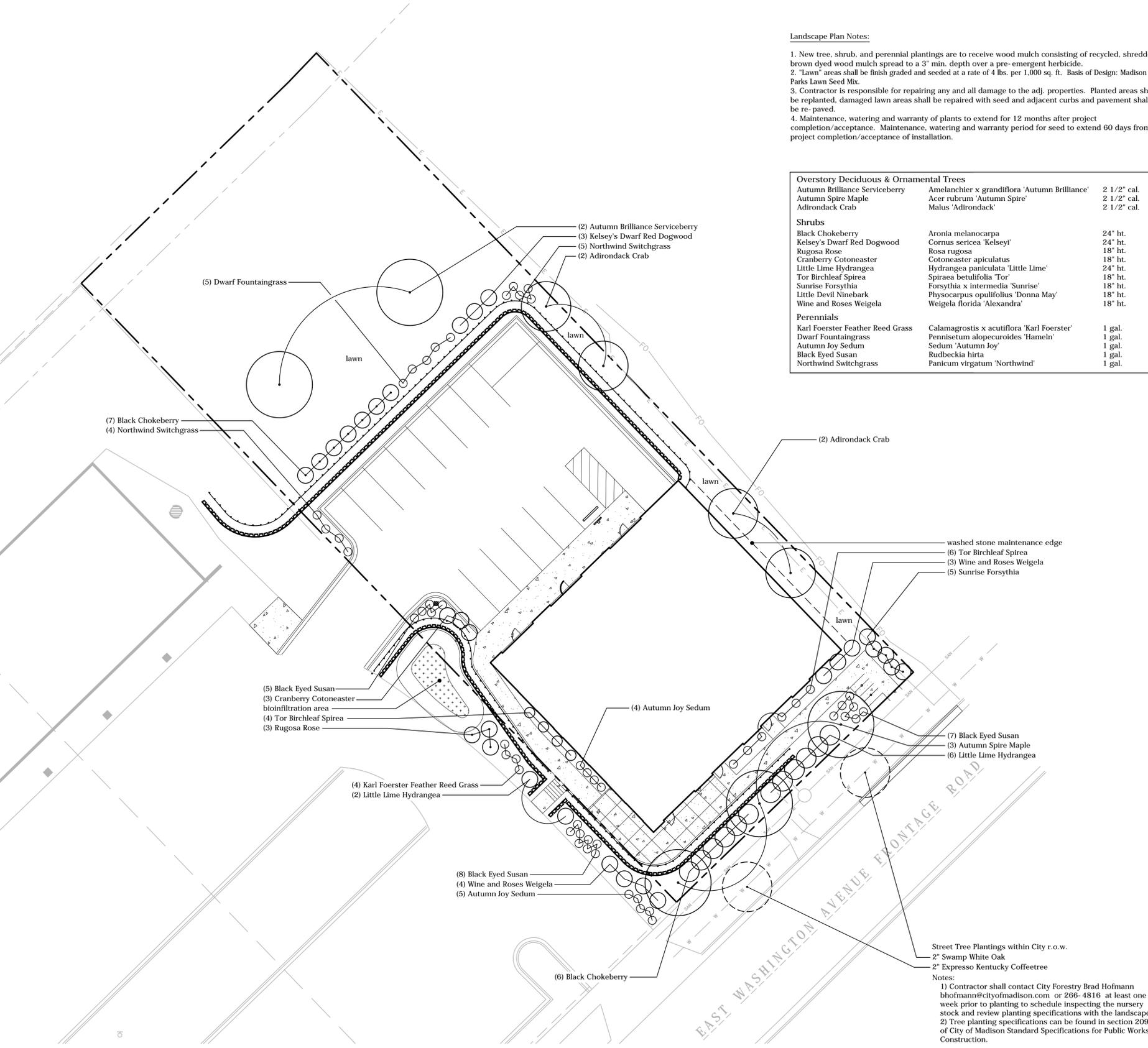
818 N Meadowbrook Ln  
Waukegan, WI 53597  
phone (608) 849-9378  
www.pe-wi.com

**PROFESSIONAL ENGINEERING** LLC

ISSUANCE/REVISION  
UDC

DATE  
03-27-19

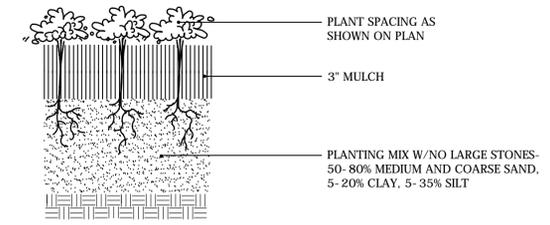
C4.0



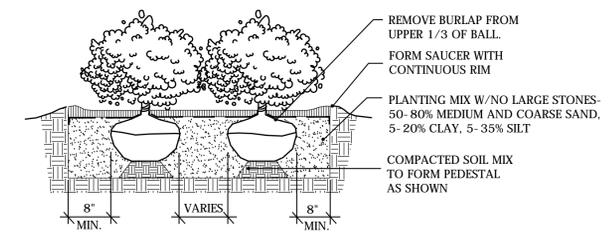
**Landscape Plan Notes:**

1. New tree, shrub, and perennial plantings are to receive wood mulch consisting of recycled, shredded brown dyed wood mulch spread to a 3" min. depth over a pre-emergent herbicide.
2. "Lawn" areas shall be finish graded and seeded at a rate of 4 lbs. per 1,000 sq. ft. Basis of Design: Madison Parks Lawn Seed Mix.
3. Contractor is responsible for repairing any and all damage to the adj. properties. Planted areas shall be replanted, damaged lawn areas shall be repaired with seed and adjacent curbs and pavement shall be re-paved.
4. Maintenance, watering and warranty of plants to extend for 12 months after project completion/acceptance. Maintenance, watering and warranty period for seed to extend 60 days from project completion/acceptance of installation.

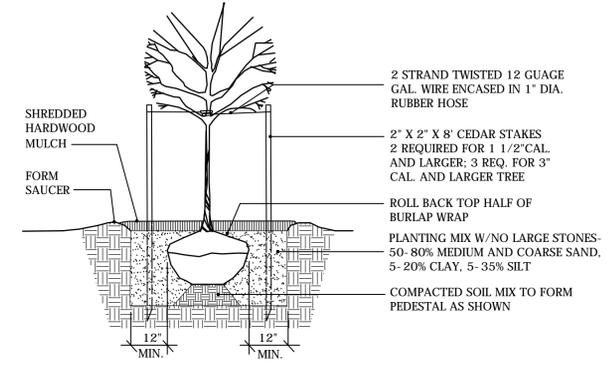
| Overstory Deciduous & Ornamental Trees |   |             |
|--|---|-------------|
| Autumn Brilliance Serviceberry         | Amelanchier x grandiflora 'Autumn Brilliance' | 2 1/2" cal. |
| Autumn Spire Maple                     | Acer rubrum 'Autumn Spire'                    | 2 1/2" cal. |
| Adirondack Crab                        | Malus 'Adirondack'                            | 2 1/2" cal. |
| Shrubs                                 |   |             |
| Black Chokeberry                       | Aronia melanocarpa                            | 24" ht.     |
| Kelsey's Dwarf Red Dogwood             | Cornus sericea 'Kelsey'                       | 24" ht.     |
| Rugosa Rose                            | Rosa rugosa                                   | 18" ht.     |
| Cranberry Cotoneaster                  | Cotoneaster apiculatus                        | 18" ht.     |
| Little Lime Hydrangea                  | Hydrangea paniculata 'Little Lime'            | 24" ht.     |
| Tor Birchleaf Spirea                   | Spiraea betulifolia 'Tor'                     | 18" ht.     |
| Sunrise Forsythia                      | Forsythia x intermedia 'Sunrise'              | 18" ht.     |
| Little Devil Ninebark                  | Physocarpus opulifolius 'Donna May'           | 18" ht.     |
| Wine and Roses Weigela                 | Weigela florida 'Alexandra'                   | 18" ht.     |
| Perennials                             |   |             |
| Karl Foerster Feather Reed Grass       | Calamagrostis x acutiflora 'Karl Foerster'    | 1 gal.      |
| Dwarf Fountaingrass                    | Pennisetum alopecuroides 'Hameln'             | 1 gal.      |
| Autumn Joy Sedum                       | Sedum 'Autumn Joy'                            | 1 gal.      |
| Black Eyed Susan                       | Rudbeckia hirta                               | 1 gal.      |
| Northwind Switchgrass                  | Panicum virgatum 'Northwind'                  | 1 gal.      |



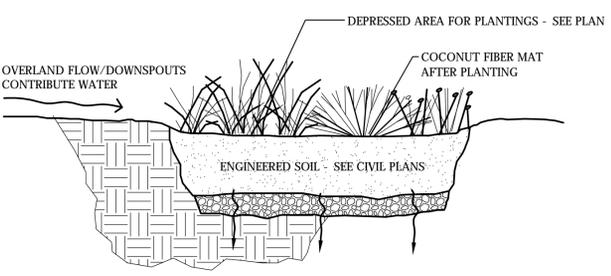
**2 PERENNIAL PLANTING**  
NTS



**3 SHRUB PLANTING**  
NTS



**4 TREE PLANTING**  
NTS



**5 BIOINFILTRATION AREA**  
NTS

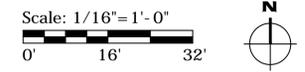
**Landscape Calculations and Distribution:**  
Five (5) landscape points shall be provided per each (300) sf of developed area for first (5) acres  
Total sf of developed area = 6,767 sf (.16 acres)  
Developed area (6,767) divided by (300) x 5 = 113 Points Required

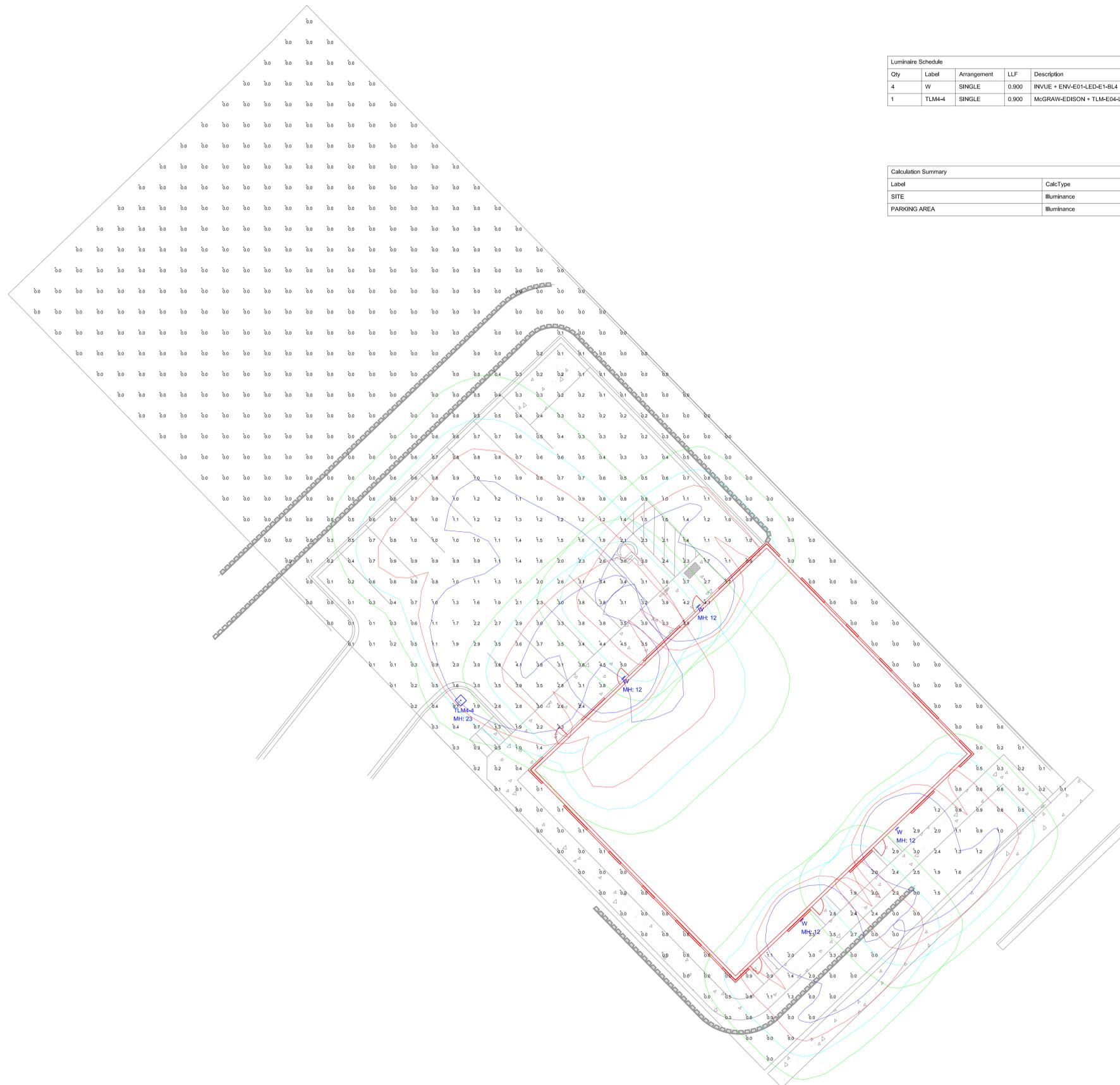
| Development Frontage Landscaping |                      |
|----------------------------------|----------------------|
| Total lf of lot frontage = 100   | Provided Trees = 3   |
| Required Trees = 3               | Provided Shrubs = 17 |
| Required Shrubs = 17             |                      |

| Tabulation of Points and Credits: |                |             |                    |                    |
|-----------------------------------|----------------|-------------|--------------------|--------------------|
| Plant Type/Element                | Min. size      | Points      | Existing Qty. Pts. | Proposed Qty. Pts. |
| Overstory deciduous tree          | 2 1/2" cal.    | 35          | -                  | 5 175              |
| Ornamental tree                   | 1 1/2" cal.    | 15          | -                  | 2 30               |
| Upright evergreen shrub           | 3- 4 feet tall | 10          | -                  | -                  |
| Shrub, deciduous                  | 18" or 3 gal.  | 3           | -                  | 52 156             |
| Shrub, evergreen                  | 18" or 3 gal.  | 4           | -                  | -                  |
| Ornamental grasses                | 18" or 3 gal.  | 2           | -                  | 18 36              |
| Ornamental fence or wall          | na             | 4 per 10 lf | -                  | -                  |
| <b>Total</b>                      |                |             |                    | <b>397</b>         |

397 Total Points Provided (113 Required)

**1 LANDSCAPE PLAN**  
1/16"= 1'- 0"





| Luminaire Schedule |       |             |       |  |            |             |             |
|--------------------|-------|-------------|-------|--|------------|-------------|-------------|
| Qty                | Label | Arrangement | LLF   | Description  | Lum. Watts | Total Watts | Lum. Lumens |
| 4                  | W     | SINGLE      | 0.900 | INVUE + ENV-E01-LED-E1-BL4                             | 24.7       | 98.8        | 2613        |
| 1                  | TLM-4 | SINGLE      | 0.900 | McGRAW-EDISON + TLM-E04-LED-E1-SL4-HSS (20' POLE 3; BA | 97.2       | 97.2        | 8139        |

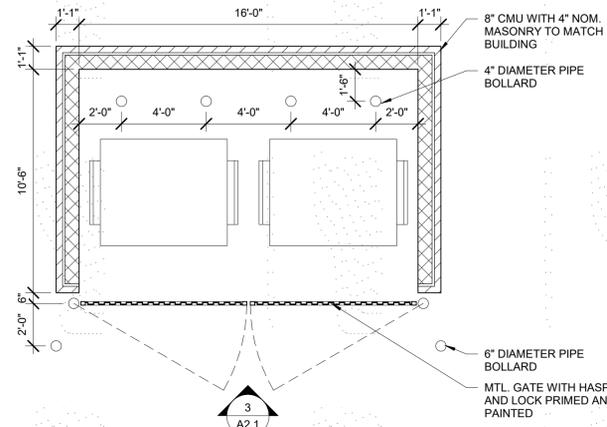
| Calculation Summary |             |       |      |     |     |         |
|---------------------|-------------|-------|------|-----|-----|---------|
| Label               | CalcType    | Units | Avg  | Max | Min | Max/Min |
| SITE                | Illuminance | Fc    | 0.58 | 5.0 | 0.0 | N.A.    |
| PARKING AREA        | Illuminance | Fc    | 1.48 | 4.4 | 0.1 | 14.80   |


**Enterprise Lighting LTD**

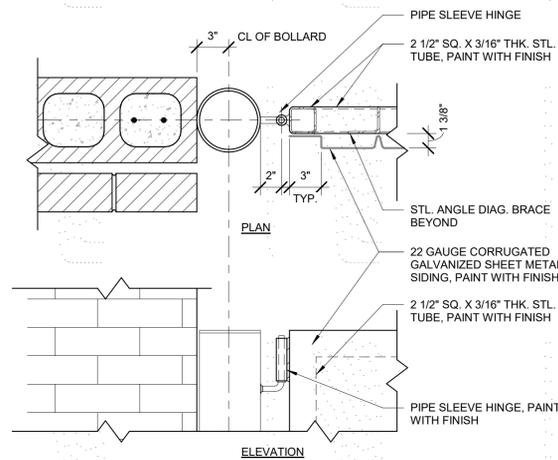
**MULTI-TENANT BUILDING  
4706 E WASHINGTON AVE  
MADISON, WISCONSIN**

**SITE  
LIGHTING LAYOUT**

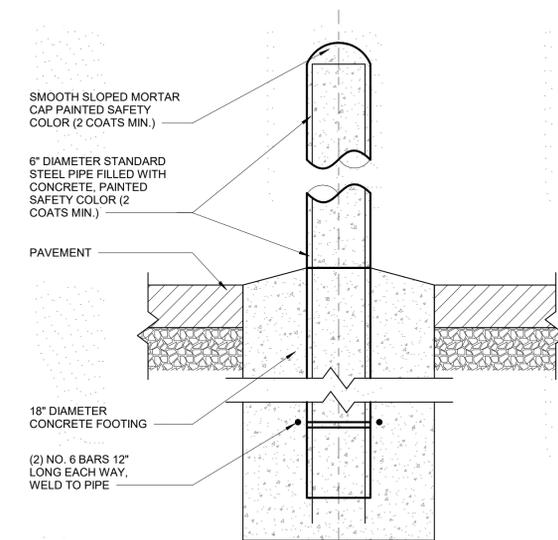
|             |                |              |
|-------------|----------------|--------------|
| DATE        | SCALE          | SHEET NUMBER |
| JAN 8, 2019 | 1/32" = 1'- 0" | E1           |



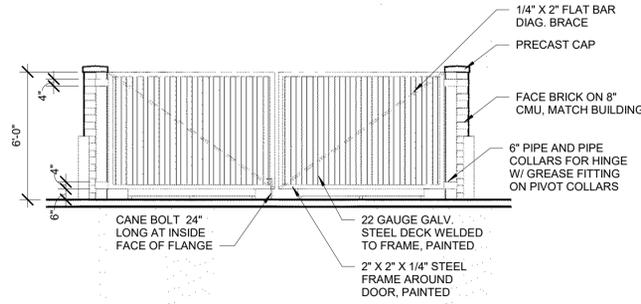
2 TRASH ENCLOSURE PLAN  
1/4" = 1'-0"



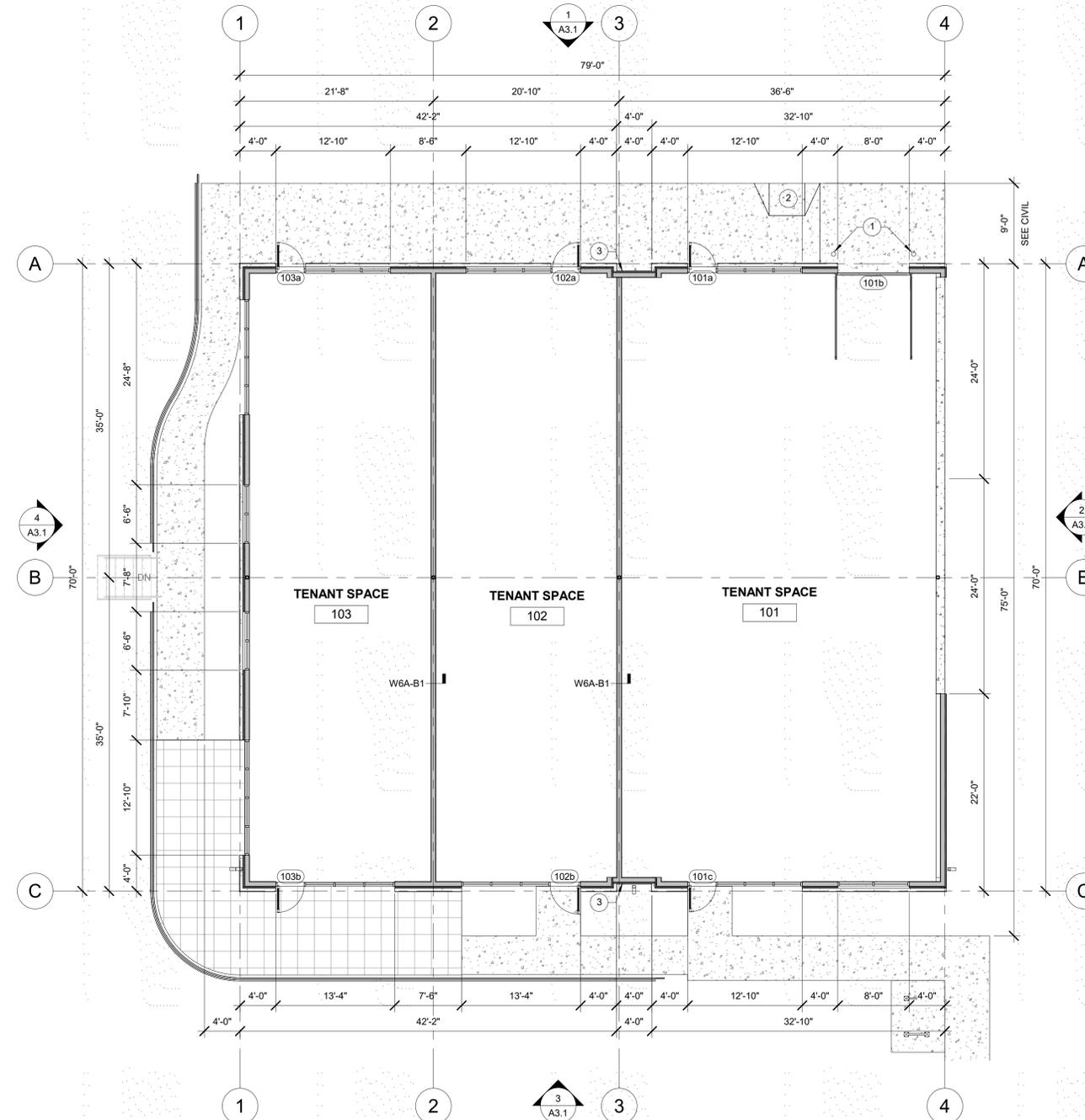
4 TRASH GATE DETAIL  
1 1/2" = 1'-0"



5 BOLLARD DETAIL  
N.T.S.



3 TRASH ENCLOSURE ELEVATION  
1/4" = 1'-0"



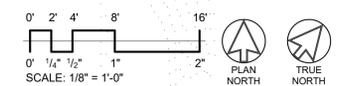
1 FLOOR PLAN  
1/8" = 1'-0"

**GENERAL PLAN NOTES:**

- A. MECHANICAL, ELECTRICAL AND PLUMBING IMPROVEMENTS TO BE DESIGN BUILD UNO. DESIGNED AS REQUIRED BY CURRENT BUILDING CODES. MEP DESIGN BUILD CONTRACTOR(S) RESPONSIBLE FOR ENSURING CODE COMPLIANT CONSTRUCTION OF NEW SYSTEMS IN TENANT SPACES.
- B. PROVIDE ACCESSIBLE TOILET ROOM FIXTURES AND ACCESSORIES PER MOUNTING HEIGHTS INDICATED ON SHEET A0.2
- C. PROVIDE ADA APPROVED THRESHOLDS AT ALL NEW FLOOR TRANSITIONS AND DOORWAYS
- D. EXTERIOR DIMENSIONS ARE FROM GRIDLINE TO GRIDLINE, OR TO EDGE OF FOUNDATION WALL UNO. PLEASE CONTACT ARCHITECT WITH ANY DISCREPANCIES.
- E. INTERIOR DIMENSIONS ARE TO FACE OF FRAME OR COLUMN CENTERLINE UNLESS OTHERWISE NOTED. VERIFY ALL EXISTING CONDITIONS AND ADJUST WALL DIMENSIONS ACCORDINGLY. CONTACT ARCHITECT WITH ANY DISCREPANCIES.
- F. CONTRACTOR SHALL NOTIFY ARCHITECT, ENGINEER AND OWNER IMMEDIATELY UPON DISCOVERING ANY UNANTICIPATED STRUCTURAL CONDITIONS OR DISCREPANCIES WITH PROPOSED MODIFICATIONS.
- G. PROVIDE SOUND INSULATION IN ALL DEMISING WALLS AND INTERIOR WALLS UNO
- H. FIRE EXTINGUISHER CABINETS: SIZE AND DISTRIBUTION PER TABLE 906.3(1) IN THE 2015 IBC. CABINETS TO BE PARTIALLY RECESSED AND RATED TO MEET THE ASSOCIATED WALL FIRE RATING
- I. GENERAL CONTRACTOR TO SECURE CONSTRUCTION AREA DURING CONSTRUCTION WORK. SEAL ALL DOORS AS REQUIRED. CONSTRUCT AND MAINTAIN A FLOOR TO CEILING DUST BARRIER, TO PROVIDE SEPARATION FOR DUST, DEBRIS AND SOUND
- J. GENERAL CONTRACTOR TO COORDINATE CONSTRUCTION SCHEDULE TO MINIMIZE IMPACT ON EXISTING BUILDING OPERATIONS AND PLANNED EVENTS. CONSTRUCTION SPACE MUST BE CLEAN AND AVAILABLE FOR USE PERIODICALLY PER OWNER'S REQUEST. VERIFY SCHEDULED EVENTS WITH OWNER PRIOR TO CONSTRUCTION START AND ARRANGE CONSTRUCTION SCHEDULE TO MEET OWNER'S NEEDS. COORDINATE SYSTEMS AND UTILITY SHUT DOWNS WITH OWNER PRIOR TO COMMENCEMENT OF WORK
- K. GENERAL CONTRACTOR TO MAINTAIN A PATH THROUGH PORTIONS OF THE CONSTRUCTION AREA FOR ACCESS TO EGRESS ROUTES
- L. SUBMIT ALL FINISHES TO THE ARCHITECT FOR APPROVAL

**KEYED PLAN NOTES:**

- 1 PIPE BOLLARDS
- 2 ADA RAMP - SEE CIVIL DRAWINGS
- 3 EXTERIOR HOSE BIB - ALIGN WITH DEMISING WALL



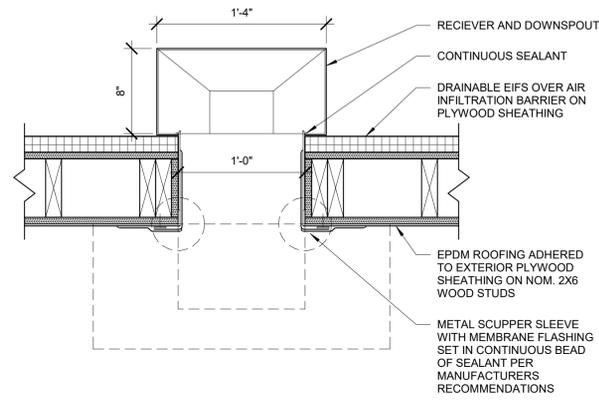
**MULTI-TENANT BUILDING**  
NEW COMMERCIAL BUILDING  
4706 E. WASHINGTON AVE.  
MADISON, WI 53704

**FIRST FLOOR PLAN**

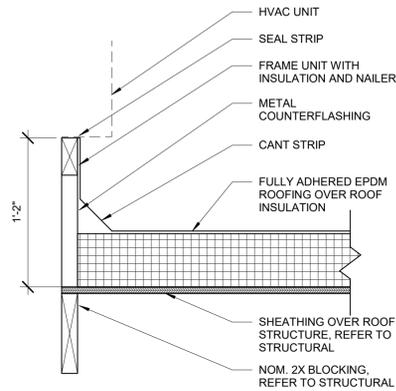
**Project Status**

|   |          |               |
|---|----------|---------------|
| A | 19/01/09 | PC SUBMITTAL  |
| C | 19/03/28 | UDC SUBMITTAL |

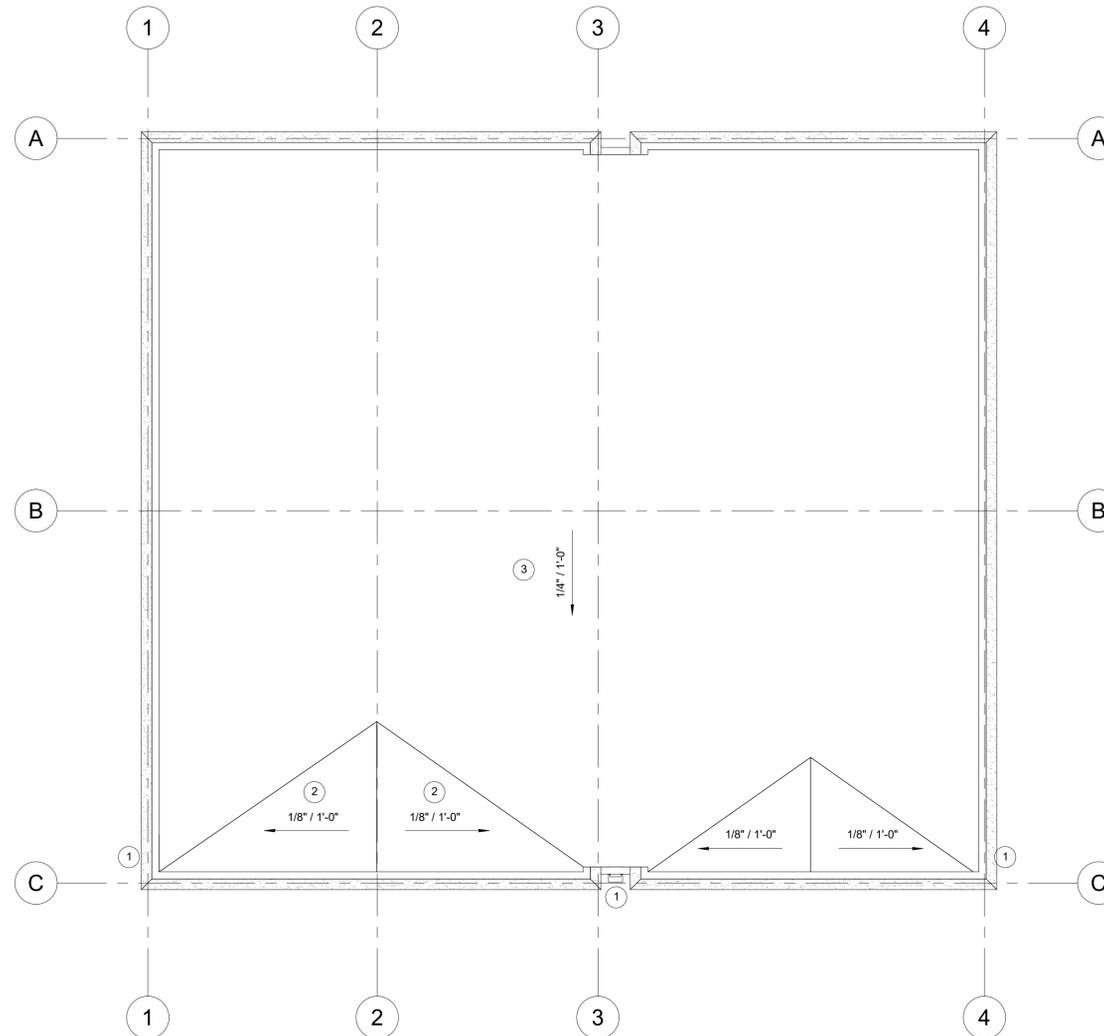
**A2.1**



② SCUPPER DETAIL  
1 1/2" = 1'-0"



③ HVAC CURB DETAIL  
1 1/2" = 1'-0"



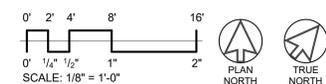
① ROOF PLAN  
1/8" = 1'-0"

**GENERAL ROOF PLAN NOTES:**

- A. EXTERIOR DIMENSIONS ARE FROM GRIDLINE TO GRIDLINE, OR TO EDGE OF FOUNDATION WALL UNLESS OTHERWISE NOTED. PLEASE CONTACT ARCHITECT WITH ANY DISCREPANCIES.
- B. DIMENSIONS ARE TO FACE OF EAVE UNO. VERIFY ALL EXISTING CONDITIONS AND ADJUST WALL DIMENSIONS ACCORDINGLY. CONTACT ARCHITECT WITH ANY DISCREPANCIES.
- C. STAIRWELL, ELEVATOR, AND MECHANICAL CHASE INTERIOR WALLS SHALL BE CONTINUOUS TO BOTTOM OF RATED CEILING ASSEMBLY CAP
- D. PROVIDE APPROPRIATE INSULATION IN ATTIC AREA, PROVIDE VAPOR BARRIER BELOW INSULATION
- E. PROVIDE DRAFTSTOPPING IN ATTIC/ CEILINGS AS REQUIRED
- F. PROVIDE ADEQUATE ATTIC VENTING, 1 SF OF VENTING PER 300 SF ATTIC AREA (PROVIDE VAPOR BARRIER BELOW INSULATION IN ATTIC), 50% EXHAUST AND 50% INTAKE, AS REQUIRED
- G. INSTALL ICE AND WATER SHIELD AT ALL ROOF EAVES AND VALLEYS. EXTEND FROM EAVE TO 24" MIN INSIDE THE EXTERIOR WALL LINE. INSTALL PER MFG SPECIFICATIONS
- H. GUTTERS AT EDGE OF ALL SLOPED ROOF LOCATIONS
- I. FINAL DOWNSPOUT LOCATION SHOULD BE COORDINATED BETWEEN THE ROOFING CONTRACTOR, THE ARCHITECT AND THE CIVIL ENGINEER. VERIFY LOCATION OF DOWNSPOUTS

**KEYED PLAN NOTES:**

- ① PREFINISHED SCUPPER AND DOWNSPOUT, COLOR T.B.D
- ② SLOPED INSULATION ROOF CRICKET
- ③ FULLY ADHERED EPDM ROOFING OVER R-25 MIN. RIGID INSULATION ON ROOF SHEATHING OVER TAPERED ROOF TRUSSES



**MULTI-TENANT BUILDING**

NEW COMMERCIAL BUILDING  
4706 E. WASHINGTON AVE.  
MADISON, WI 53704

**ROOF PLAN**

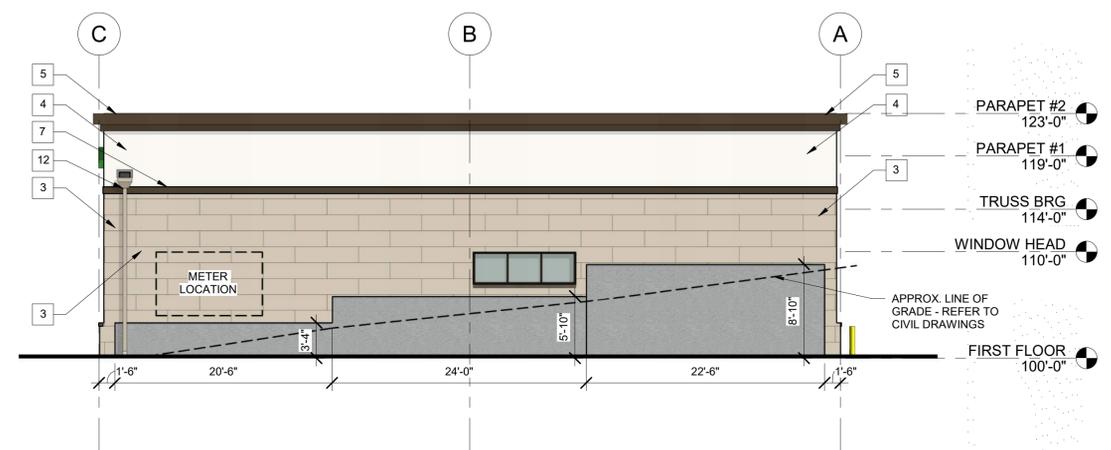
**Project Status**

|   |          |               |
|---|----------|---------------|
| A | 19/01/09 | PC SUBMITTAL  |
| C | 19/03/28 | UDC SUBMITTAL |

**A2.2**



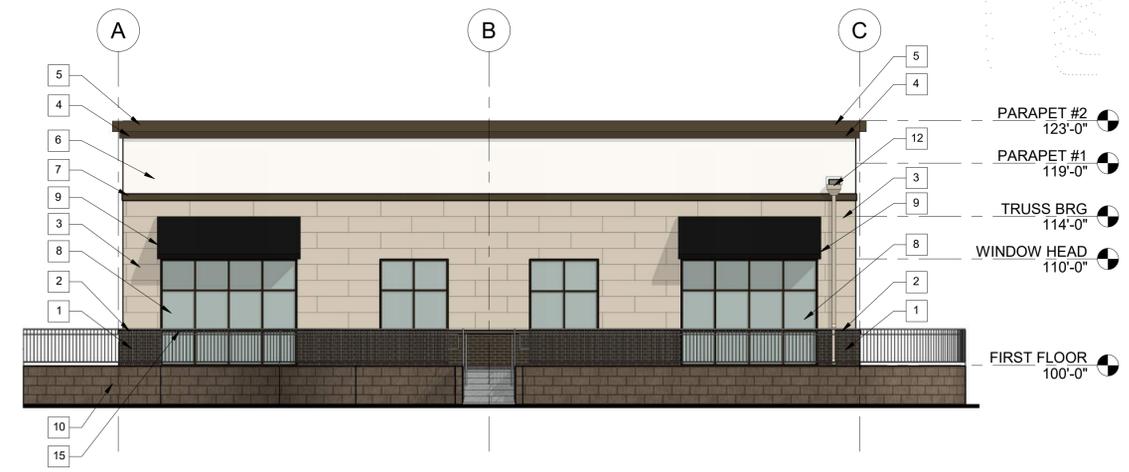
1 NORTH ELEVATION  
1/8" = 1'-0"



2 EAST ELEVATION  
1/8" = 1'-0"



3 SOUTH ELEVATION  
1/8" = 1'-0"



4 WEST ELEVATION  
1/8" = 1'-0"

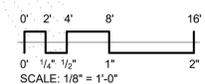
28.060 GENERAL PROVISIONS FOR MIXED-USE COMMERCIAL DISTRICTS - DOOR AND WINDOW OPENING REQUIREMENTS

60% OF LENGTH AT GROUND FLOOR  
REQUIRED: 47'-5"  
PROVIDED: 47'-6"

40% OF AREA OF GROUND FLOOR STREET FACADE  
REQUIRED: 442.4 SF  
PROVIDED: 448.3 SF

50% OF WINDOW SILLS WITHIN 3'-0" OF GRADE  
REQUIRED: 23'-9"  
PROVIDED: 39'-6"

| EXTERIOR MATERIAL LIST |                                   |                            |                   |                        |  |
|------------------------|-----------------------------------|----------------------------|-------------------|------------------------|--|
| #                      | DESCRIPTION                       | MANUFACTURER               | TYPE/STYLE        | COLOR                  | COMMENTS   |
| 1                      | BRICK VENEER                      | SIoux CITY BRICK           | MODULAR           | BLACK HILLS VELOUR     |  |
| 2                      | PRECAST SILL                      | CUSTOM CAST STONE          | SMOOTH FACE       | OLIVE BUFF             |  |
| 3                      | FIBER CEMENT PANEL                | ALLURA OR EQUIVALENT       | SMOOTH FACE PANEL | LINEN                  |  |
| 4                      | EIFS FASCIA                       | DRYVIT                     | SHOT BLAST FINE   | WELL BRED BROWN        |  |
| 5                      | PREFINISHED METAL COPING          | DRYVIT                     | SHOT BLAST FINE   | MEDIUM BRONZE          | MATCH ALUMINUM STOREFRONT                        |
| 6                      | EIFS SIGNAGE BAND                 | DRYVIT                     | SHOT BLAST FINE   | NATURAL WHITE          |  |
| 7                      | EIFS SIGNAGE TRIM                 | DRYVIT                     | SHOT BLAST FINE   | WELL BRED BROWN        |  |
| 8                      | ALUMINUM STOREFRONT               |                            |                   | ANODIZED MEDIUM BRONZE | LOW-E GLAZING                                    |
| 9                      | FABRIC AWNING                     |                            |                   | BLACK                  |  |
| 10                     | CMU RETAINING WALL                |                            |                   |                        | COLOR TO MATCH BLACK HILLS VELOUR BRICK          |
| 11                     | OVERHEAD DOOR                     |                            |                   | ANODIZED DARK BRONZE   | MATCH ALUMINUM STOREFRONT                        |
| 12                     | PREFINISHED SCUPPER AND DOWNSPOUT |                            |                   |                        | COLOR TO MATCH ADJACENT FIBER CEMENT MATERIAL    |
| 13                     | FIBER CEMENT SIDING               | JAMES HARDIE OR EQUIVALENT | SMOOTH TEXTURE    | RICH ESPRESSO          |  |
| 14                     | CAST STONE                        | CUSTOM CAST STONE          | SMOOTH FACE       | OLIVE BUFF             |  |
| 15                     | GUARDRAIL                         |                            |                   |                        |  |
| 16                     | TENANT SIGNABLE AREA              |                            |                   |                        | PROVIDE ELECTRICAL CONNECTION FOR TENANT SIGNAGE |









**Job Name:**  
4706 E Washington Ave

**Catalog Number:**  
ENV-E01-LED-E1-BL4-STD FINISH

**Type:**

**W**

**Notes:**

ELL19-84128

**DESCRIPTION**

The Entri LED luminaire features a classic and stylish design with the added benefits of solid state lighting technology, offering outstanding uniformity and energy savings. Using Eaton's proprietary LED LightBAR™ technology and AccuLED Optics™ system, the Entri LED luminaire offers designers vast versatility in system design, function and performance. Use Entri LED for wall mount architectural lighting applications and egress lighting requirements. UL/cUL listed for use in wet locations.

|                    |  |             |
|--------------------|--|-------------|
| <b>Catalog #</b>   |  | <b>Type</b> |
| <b>Project</b>     |  |             |
| <b>Comments</b>    |  | <b>Date</b> |
| <b>Prepared by</b> |  |             |

**SPECIFICATION FEATURES**

**Construction**

**HOUSING:** Heavy wall, one-piece, die-cast aluminum construction for precise tolerance control and repeatability in manufacturing. Integral extruded aluminum heat sink provides superior thermal heat transfer in +40°C ambient environments. **FACEPLATE / DOOR:** One-piece, die-cast aluminum construction. Captive, side hinged faceplate swings open via release of one flush mount die-cast aluminum latch on housing side panel. **GASKET:** One-piece molded silicone gasket mates perfectly between the door and housing for repeatable seal. **LENS:** Uplight lens is impact-resistant, 5/32" thick tempered frosted glass sealed to housing with continuous bead silicone gasket. Downlight lens is LED board integrated acrylic over-optics, each individually sealed for IP66 rating. **HARDWARE:** Stainless steel mounting screws and latch hardware allow access to electrical components for installation and servicing.

4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K CCT and 5000K CCT.

**Electrical**

LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Greater than 0.9 power factor, less than 20% harmonic distortion, and is suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 10kV/10kA common – and differential – mode surge protection. LightBARs feature and IP66 enclosure rating and maintain greater than 95% lumen maintenance at 60,000 hours per IESNA TM-21. Emergency egress options for -20°C ambient environments, occupancy sensor and dimming options available.

wall surface, forbidding entry of moisture and particulates. Optional mounting arrangements utilize a die-cast mounting adaptor box to allow for LED battery pack, surface conduit and through branch wiring. The Entri LED luminaire is approved for mounting on combustible surfaces.

**Finish**

Housing is finished in five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. LightBAR cover plates are standard white and may be specified to match finish of luminaire housing. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult Outdoor Architectural Colors brochure for a complete selection.

**Warranty**

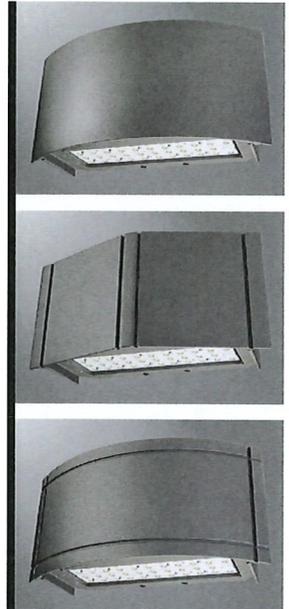
Five-year warranty.

**Optics**

Choice of six patented, high-efficiency AccuLED Optic distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optic technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in

**Mounting**

**JUNCTION BOX:** Standard with zinc-plated, quick-mount junction box plate that mounts directly to 4" J-Box. LightBARs mount facing downward. Fixture slides over mounting plate and is secured with two stainless steel fasteners. Mounting plate features a one-piece EPDM gasket on back side of plate to firmly seal fixture to



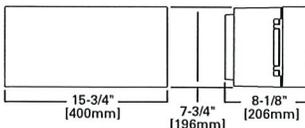
**ENC/ENT/ENV  
ENTRI LED**

**1 - 2 LightBARs  
Solid State LED**

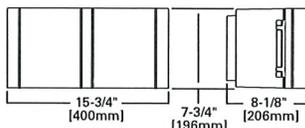
**ARCHITECTURAL WALL  
LUMINAIRE**

**DIMENSIONS**

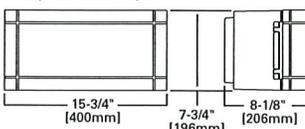
**ENC (Round Clean)**



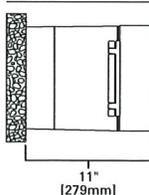
**ENT (Triangle Reveals)**



**ENV (Round Reveals)**



**CONDUIT MOUNT / BATTERY BACK BOX**



**CERTIFICATION DATA**

UL/cUL Listed  
ISO 9001  
IP66 LightBARs  
LM79 / LM80 Compliant

**ENERGY DATA**

Electronic LED Driver  
>0.9 Power Factor  
<20% Total Harmonic Distortion  
120-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz  
-30°C Minimum Temperature  
40°C Ambient Temperature Rating

**SHIPPING DATA**

Approximate Net Weight:  
16 lbs. (7.3 kgs.)



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ENC/ENT/ENV ENTRI LED

**CONTROL OPTIONS**

**0-10V**

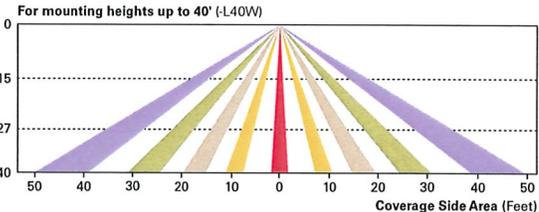
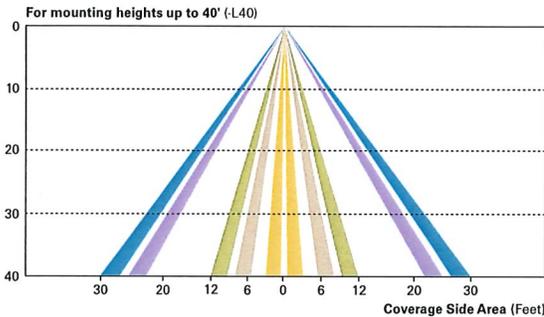
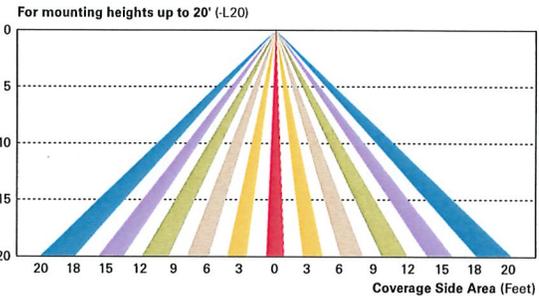
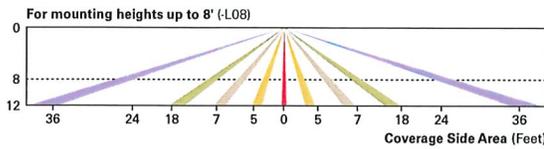
This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

**Dimming Occupancy Sensor (MS/DIM-LXX and MS-LXX)**

These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters.

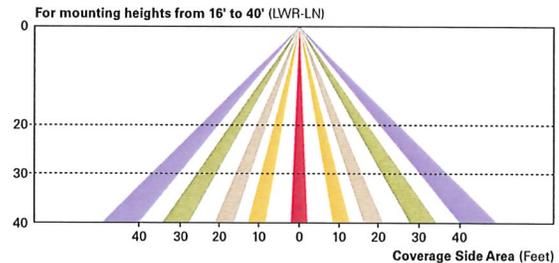
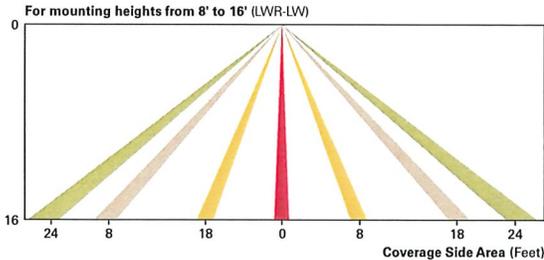
A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.



**LumaWatt Pro Wireless Control and Monitoring System (LWR-LW and LWR-LN)**

The LumaWatt Pro system is a peer-to-peer wireless network of luminaire-integral sensors for any sized project. Each sensor is capable of motion and photo sensing, metering power consumption and wireless communication. The end-user can securely create and manage sensor profiles with browser-based management software. The software will automatically broadcast to the sensors via wireless gateways for zone-based and individual luminaire control. The LumaWatt Pro software provides smart building solutions by utilizing the sensor to provide easy-to-use dashboard and analytic capabilities such as improved energy savings, traffic flow analysis, building management software integration and more.

For additional details, refer to the LumaWatt Pro product guides.



Eaton  
1121 Highway 74 South  
Peachtree City, GA 30269  
P: 770-486-4800  
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

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**Job Name:**  
4706 E Washington Ave

**Catalog Number:**  
ENV-E01-LED-E1-BL4-STD FINISH

Notes:

**Type:**

**W**

ELL19-84128

**ENC/ENT/ENV ENTRI LED**

**POWER AND LUMENS BY BAR COUNT**

| Number of LightBARs | E01             | E02      | F01            | F02      |          |
|---------------------|-----------------|----------|----------------|----------|----------|
|                     | 21 LED LightBAR |          | 7 LED LightBAR |          |          |
| Drive Current       | 35 mA           |          | 1A             |          |          |
| Power (Watts)       | 120-277V        | 25W      | 47W            | 26W      | 50W      |
| Current (A)         | 120V            | 0.22     | 0.40           | 0.22     | 0.42     |
|                     | 277V            | 0.10     | 0.18           | 0.10     | 0.19     |
| Power (Watts)       | 347V or 480V    | 31W      | 52W            | 32W      | 55W      |
| Current (A)         | 347V            | 0.11     | 0.16           | 0.11     | 0.17     |
|                     | 480V            | 0.16     | 0.18           | 0.16     | 0.18     |
| <b>Optics</b>       |                 |          |                |          |          |
| BL2                 | Lumens          | 2,738    | 5,476          | 2,260    | 4,521    |
|                     | Bug Rating      | B1-U0-G1 | B1-U0-G1       | B1-U0-G1 | B1-U0-G1 |
| BL3                 | Lumens          | 2,702    | 5,405          | 2,231    | 4,462    |
|                     | Bug Rating      | B1-U0-G1 | B1-U0-G2       | B1-U0-G1 | B1-U0-G1 |
| BL4                 | Lumens          | 2,613    | 5,225          | 2,157    | 4,313    |
|                     | Bug Rating      | B1-U0-G1 | B1-U0-G2       | B1-U0-G1 | B1-U0-G1 |
| GZW                 | Lumens          | 2,785    | 5,570          | 2,299    | 4,598    |
|                     | Bug Rating      | B2-U0-G2 | B3-U0-G3       | B1-U0-G1 | B2-U0-G2 |
| SLR/SLL             | Lumens          | 2,435    | 4,869          | 2,010    | 4,020    |
|                     | Bug Rating      | B1-U0-G1 | B1-U0-G2       | B1-U0-G1 | B1-U0-G2 |

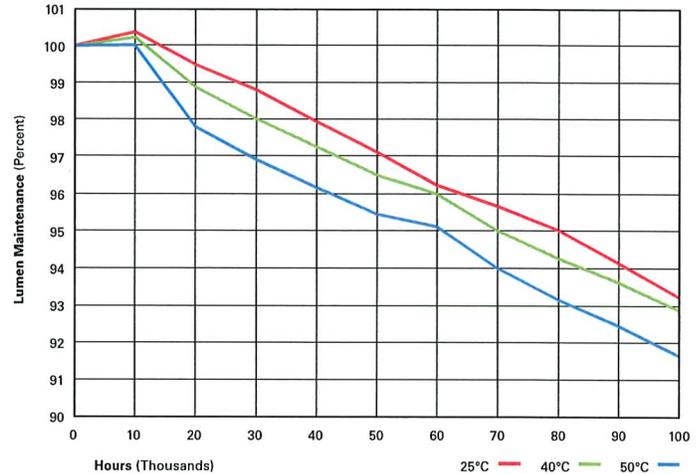
**LUMEN MAINTENANCE**

| Ambient Temperature | 25,000 Hours* | 50,000 Hours* | 60,000 Hours* | 100,000 Hours | Theoretical L70 (Hours) |
|---------------------|---------------|---------------|---------------|---------------|-------------------------|
| 25°C                | > 99%         | > 97%         | > 96%         | > 93%         | > 450,000               |
| 40°C                | > 98%         | > 97%         | > 96%         | > 92%         | > 425,000               |
| 50°C                | > 97%         | > 96%         | > 95%         | > 91%         | > 400,000               |

\* Per IESNA TM-21 data.

**LUMEN MULTIPLIER**

| Ambient Temperature | Lumen Multiplier |
|---------------------|------------------|
| 10°C                | 1.02             |
| 15°C                | 1.01             |
| 25°C                | 1.00             |
| 40°C                | 0.99             |



**ORDERING INFORMATION**

Sample Number: ENC-E02-LED-E1-BL3-GM

**TBD**

| Product Family   | Number of LightBARs <sup>1</sup>   | Lamp Type                             | Voltage   | Distribution   | Color <sup>3</sup>   |
|--|--|---------------------------------------|---|--|--|
| ENC=Entri Round Clean<br>ENT=Entri Triangle Reveals<br>ENV=Entri Round Reveals   | E01=(1) 21 LED LightBAR<br>E02=(2) 21 LED LightBARs<br>F01=(1) 7 LED LightBAR<br>F02=(2) 7 LED LightBARs | LED-Solid State Light Emitting Diodes | E1=Electronic (120-277V)<br>347=347V<br>480=480V <sup>2</sup>   | BL2=Type II w/Back Light Control<br>BL3=Type III w/Back Light Control<br>BL4=Type IV w/Back Light Control<br>GZW=Wall Grazer Wide<br>SLL=90° Spill Light Eliminator Left<br>SLR=90° Spill Light Eliminator Right | AP=Grey<br>BZ=Bronze<br>BK=Black<br>DP=Dark Platinum<br>GM=Graphite Metallic<br>WH=White |
| Options (Add as Suffix)  |  |                                       | Accessories (Order Separately) <sup>9</sup>   |  |  |
| ULG=Uplight Glow (For Uplight Only)<br>PC=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage)<br>WG=Wire Guard<br>TP=Tamper Resistant Hardware<br>LCF=LightBAR Cover Plate Matches Housing Finish<br>7030=70 CRI / 3000K CCT <sup>4</sup><br>7050=70 CRI / 5000K CCT <sup>4</sup><br>8030=80 CRI / 3000K CCT <sup>4</sup><br>OSB=Occupancy Sensor with Back Box (Specify 120V or 277V) <sup>5</sup><br>BBB=Battery Pack with Back Box (Specify 120V or 277V) <sup>6</sup><br>CWB=Cold Weather Battery Pack with Back Box (Specify 120V or 277V) <sup>7</sup><br>DIM=0-10V Dimming Driver<br>LWR-LW= LumaWatt Pro Wireless Sensor, Wide Lens for 8' - 16' Mounting Height <sup>8</sup><br>LWR-LN= LumaWatt Pro Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height <sup>8</sup> |  |                                       | VA2001-XX=Thru-Way Conduit Box<br>VA6172=Wire Guard<br>VA6173=Tamper-Resistant Driver Bit<br>MA1253=10KV Circuit Module Replacement |  |  |

**NOTES:**

- Standard 4000K CCT and greater than 70 CRI. LightBARs for downlight use only.
- Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems)
- Custom and RAL color matching available upon request. Consult your lighting representative at Eaton for more information.
- Extended lead times apply.
- Available with E02 or F02, only one bar on street side will be wired to sensor. Time delay factory setting 15-minutes. When ordered with PC option, both bars are connected to photocontrol as primary switching means. Standard sensor lens covers 8' mounting height, 360° coverage, maximum 48" diameter. Not available in all configurations or with BBB or CWB options.
- Specify 120V or 277V. LED standard integral battery pack is rated for minimum operating temperature 32°F (0°C). Operates one bar for 90-minutes. Not available in all configurations or with OSB option. Consult factory.
- Specify 120V or 277V. LED cold weather integral battery pack is rated for minimum operating temperature -4°F (-20°C). Operates one bar for 90-minutes. Not available in all configurations or with OSB option. Consult factory.
- LumaWatt Pro wireless sensors are factory installed only, order with OSB backbox, requiring network components LWP-EM-1,LWP-GW-1,LWP-PoE8 in appropriate quantities. See www.eaton.com/lighting for LumaWatt Pro application information.
- Replace XX with color suffix.



Eaton  
1121 Highway 74 South  
Peachtree City, GA 30269  
P: 770-486-4800  
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

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**Job Name:**  
4706 E Washington Ave

**Catalog Number:**  
TLM-E04-LED-E1-SL4-STD FINISH-HSS  
**Notes:**

**Type:**  
**TLM-4**  
ELL19-84128

# McGraw-Edison

## DESCRIPTION

The Talon luminaire is the most versatile, functionally designed, universally adaptable outdoor luminaire available. Incorporating modular LED LightBAR™ technology, the Talon luminaire brings outstanding uniformity and energy-conscious illumination to walkways, parking lots, roadways, building areas and any security lighting application. UL/cUL listed for wet locations.

|                    |  |             |  |
|--------------------|--|-------------|--|
| <b>Catalog #</b>   |  | <b>Type</b> |  |
| <b>Project</b>     |  |             |  |
| <b>Comments</b>    |  | <b>Date</b> |  |
| <b>Prepared by</b> |  |             |  |

## SPECIFICATION FEATURES

### Construction

One-piece heavy-wall, die-cast aluminum construction with integral reveal channels along top surface of housing. Optimized for reliable operation from 40°C down to -40°C, internal cast-in wall separates optical and electrical chambers allowing components to operate cooler. Stainless steel latches and hinges allow for tool-less opening and removal of door frame.

### Optics

Choice of twelve patented, high-efficiency AccuLED Optics™ distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optics technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K CCT, 5000K CCT and 5700K CCT. For the ultimate level of spill light control, an optional house-side shield accessory can be field or factory installed. The house-side shield is designed to seamlessly integrate with the SL2, SL3 or SL4 optics.

### Electrical

LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Greater than 0.9 power factor, less than 20% harmonic distortion. All fixtures are shipped standard with 10kV/10kA common – and differential – mode surge protection. LightBARs feature an IP66 enclosure rating and maintain greater than 95% lumen maintenance at 60,000 hours per IESNA TM-21. Occupancy sensor and dimming options available.

### Mounting

Extruded 8" aluminum arm includes internal bolt guides allowing for easy positioning of fixture during installation to pole or wall surface. Standard single carton packaging of housing, square pole arm and round pole adapter for contractor-friendly arrival of product on site. Optional mounting methods include a wall mount plate, an external mast arm that accepts 2-3/8" O.D. horizontal tenons and direct mounting to pole or wall surfaces. Tenon adapters

available to slipfit over poles equipped with 2-3/8" or 3-1/2" O.D. tenon. 3G vibration rated.

### Finish

Housing and arm finished in a five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

### Warranty

Five-year warranty.



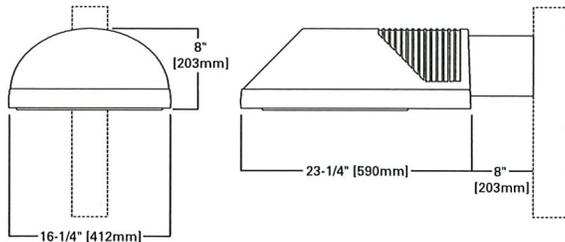
## TLM TALON MEDIUM LED

1 - 6 LightBARs  
Solid State LED

ARCHITECTURAL AREA  
LUMINAIRE



## DIMENSIONS



## CERTIFICATION DATA

UL/cUL Listed  
LM79 / LM80 Compliant  
IP66 LightBARs  
3G Vibration Rated  
ISO 9001  
DesignLights Consortium™ Qualified\*

## ENERGY DATA

Electronic LED Driver  
>0.9 Power Factor  
<20% Total Harmonic Distortion  
120-277V/50 & 60Hz, 347V/60Hz,  
480V/60Hz  
-40°C Minimum Temperature  
40°C Ambient Temperature Rating

## EPA

Effective Projected Area: (Sq. Ft.)  
1.89 with 8" Arm

## SHIPPING DATA

Approximate Net Weight:  
42 lbs. (19.09 kgs.)





TLM TALON MEDIUM LED

POWER AND LUMENS BY BAR COUNT (21 LED LIGHTBARS)

| Number of LightBARS       |            | E01                 | E02      | E03      | E04      | E05      | E06      |
|---------------------------|------------|---------------------|----------|----------|----------|----------|----------|
| <b>Drive Current</b>      |            | 350mA Drive Current |          |          |          |          |          |
| <b>Power (Watts)</b>      |            | 25W                 | 52W      | 75W      | 97W      | 127W     | 149W     |
| <b>Current @ 120V (A)</b> |            | 0.22                | 0.44     | 0.63     | 0.82     | 1.07     | 1.26     |
| <b>Current @ 277V (A)</b> |            | 0.10                | 0.20     | 0.28     | 0.36     | 0.48     | 0.56     |
| <b>Power (Watts)</b>      |            | 31W                 | 58W      | 82W      | 99W      | 132W     | 159W     |
| <b>Current @ 347V (A)</b> |            | 0.11                | 0.19     | 0.28     | 0.29     | 0.39     | 0.48     |
| <b>Current @ 480V (A)</b> |            | 0.09                | 0.15     | 0.20     | 0.21     | 0.30     | 0.36     |
| T2                        | Lumens     | 3,064               | 6,128    | 9,192    | 12,255   | 15,319   | 18,383   |
|                           | BUG Rating | B1-U0-G1            | B2-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 |
| T3                        | Lumens     | 3,084               | 6,168    | 9,252    | 12,336   | 15,420   | 18,504   |
|                           | BUG Rating | B1-U0-G1            | B2-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 |
| T4                        | Lumens     | 3,022               | 6,044    | 9,066    | 12,088   | 15,110   | 18,132   |
|                           | BUG Rating | B1-U0-G1            | B1-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 |
| 5MQ                       | Lumens     | 3,224               | 6,448    | 9,672    | 12,896   | 16,120   | 19,344   |
|                           | BUG Rating | B2-U0-G1            | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B4-U0-G2 |
| 5WQ                       | Lumens     | 3,184               | 6,368    | 9,551    | 12,735   | 15,919   | 19,103   |
|                           | BUG Rating | B2-U0-G1            | B3-U0-G1 | B4-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 |
| 5XQ                       | Lumens     | 3,181               | 6,361    | 9,542    | 12,722   | 15,903   | 19,083   |
|                           | BUG Rating | B2-U0-G2            | B3-U0-G2 | B3-U0-G3 | B4-U0-G3 | B4-U0-G4 | B4-U0-G4 |
| SL2                       | Lumens     | 3,055               | 6,110    | 9,165    | 12,220   | 15,275   | 18,331   |
|                           | BUG Rating | B1-U0-G1            | B1-U0-G2 | B2-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G3 |
| SL3                       | Lumens     | 3,036               | 6,072    | 9,108    | 12,145   | 15,181   | 18,217   |
|                           | BUG Rating | B1-U0-G1            | B1-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 |
| SL4                       | Lumens     | 2,954               | 5,908    | 8,862    | 11,816   | 14,771   | 17,725   |
|                           | BUG Rating | B1-U0-G1            | B1-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 |
| RW                        | Lumens     | 3,124               | 6,248    | 9,372    | 12,496   | 15,620   | 18,744   |
|                           | BUG Rating | B2-U0-G2            | B3-U0-G3 | B3-U0-G3 | B4-U0-G4 | B4-U0-G4 | B4-U0-G4 |
| SLL/SLR                   | Lumens     | 2,782               | 5,565    | 8,347    | 11,130   | 13,912   | 16,695   |
|                           | BUG Rating | B1-U0-G1            | B1-U0-G2 | B1-U0-G3 | B2-U0-G3 | B2-U0-G3 | B2-U0-G4 |

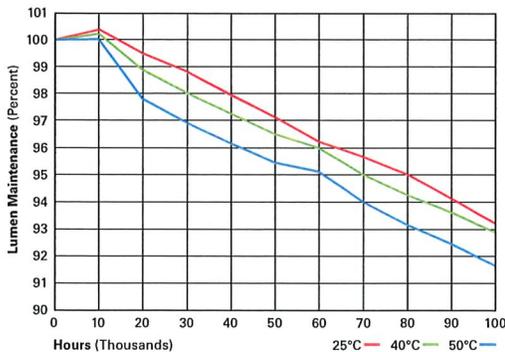
LUMEN MAINTENANCE

| Ambient Temperature | 25,000 Hours* | 50,000 Hours* | 60,000 Hours* | 100,000 Hours | Theoretical L70 (Hours) |
|---------------------|---------------|---------------|---------------|---------------|-------------------------|
| 25°C                | > 99%         | > 97%         | > 96%         | > 93%         | > 450,000               |
| 40°C                | > 98%         | > 97%         | > 96%         | > 92%         | > 425,000               |
| 50°C                | > 97%         | > 96%         | > 95%         | > 91%         | > 400,000               |

\* Per IESNA TM-21 data.

LUMEN MULTIPLIER

| Ambient Temperature | Lumen Multiplier |
|---------------------|------------------|
| 10°C                | 1.02             |
| 15°C                | 1.01             |
| 25°C                | 1.00             |
| 40°C                | 0.99             |
| 50°C                | 0.96             |



Eaton  
1121 Highway 71 South  
Peachtree City, GA 30269  
P: 770-486-4800  
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

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2016-01-13 14:20:24



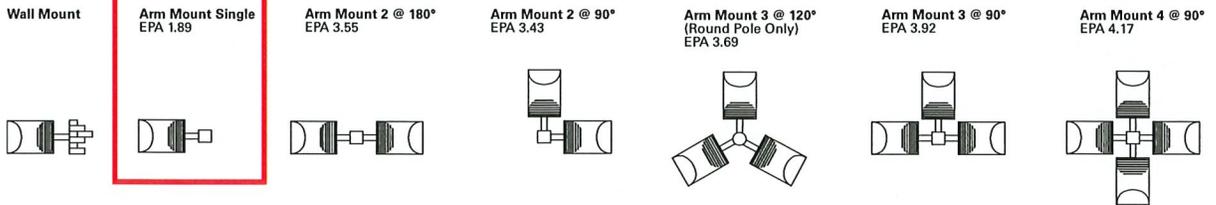
**Job Name:**  
4706 E Washington Ave

**Catalog Number:**  
TLM-E04-LED-E1-SL4-STD FINISH-HSS  
**Notes:**

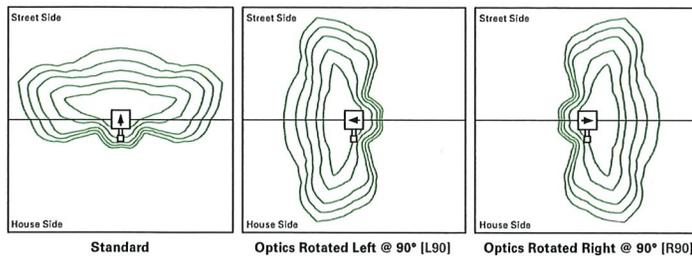
**Type:**  
**TLM-4**  
ELL19-84128

TLM TALON MEDIUM LED

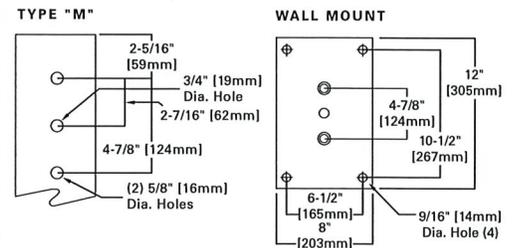
**MOUNTING CONFIGURATIONS**



**OPTIC ORIENTATION**



**ARM DRILLING**



**ORDERING INFORMATION**

Sample Number: TLM-E03-LED-E1-T3-BK

**TBD**

| Product Family <sup>1,2,3</sup>  | Number of LightBARs <sup>4,5</sup>   | Lamp Typ                              | Voltage   | Distribution   | Color <sup>7</sup>   |
|--|--|---------------------------------------|---|--|--|
| TLM=Talon Medium   | E01=(1) 21 LED LightBAR<br>E02=(2) 21 LED LightBARs<br>E03=(3) 21 LED LightBARs<br>E04=(4) 21 LED LightBARs<br>E05=(5) 21 LED LightBARs<br>E06=(6) 21 LED LightBARs<br>F01=(1) 7 LED LightBAR<br>F02=(2) 7 LED LightBARs<br>F03=(3) 7 LED LightBARs<br>F04=(4) 7 LED LightBARs<br>F05=(5) 7 LED LightBARs<br>F06=(6) 7 LED LightBARs | LED=Solid State Light Emitting Diodes | E1=Electronic (120-277V)<br>347=347V<br>480=480V *  | T2=Type II<br>T3=Type III<br>T4=Type IV<br>SL2=Type II w/Spill Control<br>SL3=Type III w/Spill Control<br>SL4=Type IV w/Spill Control<br>5MQ=Type V Square Medium<br>5WQ=Type V Square Wide<br>5XQ=Type V Square Extra Wide<br>RW=Rectangular Wide<br>SL=90° Spill Light Eliminator Left<br>SLR=90° Spill Light Eliminator Right | AP=Grey<br>BZ=Bronze<br>BK=Black<br>DP=Dark Platinum<br>GM=Graphite Metallic<br>WH=White |
| Options (Add as Suffix)  |  |                                       | Accessories (Order Separately) <sup>18</sup>  |  |  |
| P=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage)<br>R=NEMA Twistlock Photocontrol Receptacle<br>PER7=NEMA 7-PINTwistlock Photocontrol Receptacle *<br>PT=Electrical Power Tray<br>2L=Two Circuits *<br>7030=70 CRI / 3000K CCT *<br>7050=70 CRI / 5000K CCT *<br>7060=70 CRI / 5700K CCT *<br>8030=80 CRI / 3000K CCT *<br>LCF=LightBAR Cover Plate Matches Housing Finish<br>WM=Wall Mount with Arm<br>DM=Direct Mount for Round or Square Pole<br>DW=Direct Wall Mount<br>MS=External Mast Arm Adapter<br>ICP=Integral Cold Weather Battery Pack (Specify 120V or 277V) <sup>11</sup><br>MS-LXX=Motion Sensor for On/Off Operation <sup>12</sup><br>MS/X-LXX=Motion Sensor for BI-Level Operation <sup>13</sup><br>MS/DIM-LXX=Motion Sensor for Dimming Operation <sup>14,15</sup><br>DIM=0-10V Dimming Drivers <sup>16</sup><br>HSS=Factory Installed House Side Shield <sup>17</sup> |  |                                       | MA1010-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon<br>MA1011-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon<br>MA1012-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon<br>MA1013-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon<br>MA1014-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon<br>MA1015-XX=2@120° Tenon Adapter for 3-1/2" O.D. Tenon<br>MA1016-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon<br>MA1017-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon<br>MA1018-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon<br>MA1019-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon<br>MA1045-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon<br>MA1048-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon<br>MA1049-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon<br>FSIR-100=Wireless Configuration Tool for Occupancy Sensor <sup>19</sup><br>OA/RA1016=NEMA Twistlock Photocontrol - Multi-Tap<br>OA/RA1027=NEMA Twistlock Photocontrol - 480V<br>OA/RA1201=NEMA Twistlock Photocontrol - 347V<br>OA/RA1013=Photocontrol Shorting Cap<br>MA1253=10kV Circuit Module Replacement<br>LB/HSS-21=Field Installed House Side Shield for "E" LightBARs <sup>20</sup><br>LB/HSS-07=Field Installed House Side Shield for "F" LightBARs <sup>20</sup> |  |  |

**NOTES:**

- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
- Design Lights Consortium™ Qualified. Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for details.
- \* Arm and round pole adapter included with fixture.
- Standard 4000K CCT and minimum 70 CRI.
- 21 LED LightBAR powered at 350mA; 7 LED LightBAR powered at 1A.
- Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
- Custom and RAL color matching available upon request. Consult your lighting representative at Eaton for more information.
- Must order dimming driver.
- Low-Level output varies by bar count specified. Consult Factory.
- Extended lead times apply. See website for IES files.
- Available with E01-E04 or F01-F04 configurations only. Rated for 25°C ambient.
- Sensor housed in external box mounted to the luminaire. Available in E02-E6 and F02-F6 configurations. Replace XX with mounting height in feet for proper lens selection, (e.g., MS-L25). Consult factory for additional information.
- Sensor housed in external box mounted to the luminaire. Available in E02-E6 and F02-F6 configurations. Replace X with number of bars operating in low output mode and replace XX with mounting height for proper lens selection, (e.g., MS/3-L25). Maximum 4 bars in low output mode. Consult factory for additional information.
- Only available in E02-E06 and F02-F06. Includes Dimming Drivers. Not available in 347V or 480V.
- Replace XX with mounting height in feet for proper lens selection, (e.g., MS/DIM-L25).
- Available in E02-E06 and F02-F06 only.
- Only for use with SL2, SL3 and SL4 distributions. Not available with L90 or R90 options.
- Replace XX with color suffix.
- Only compatible with MS/DIM-LXX motion sensor.



Eaton  
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Specifications and dimensions subject to change without notice.

TD500010EN  
2016-01-13 14:20:24

Submitted by Enterprise Lighting, LTD.



**Job Name:**  
4706 E Washington Ave

**Catalog Number:**  
SSS4A20S\*M1

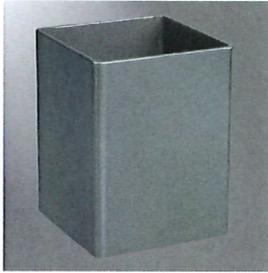
Notes:

**Type:**

**TLM-4**

ELL19-84128

# Steel Poles



## SSS SQUARE STRAIGHT STEEL

|             |  |      |
|-------------|--|------|
| Catalog #   |  | Type |
| Project     |  |      |
| Comments    |  | Date |
| Prepared by |  |      |

**FEATURES**

- ASTM Grade steel base plate with ASTM A366 base cover
- Hand hole assembly 3" x 5" on 5" and 6" pole; and 2" x 4" on 4" pole
- 10'-39' mounting heights
- Drilled or tenon (specify)

**DESIGN CONSIDERATIONS**

Wind induced vibrations resulting from steady, unidirectional winds and other aerodynamic forces, as well as vibration and coefficient of height factors for non-grounded mounted installations (e.g., installations on bridges or buildings) are not included in this document. The information contained herein is for general guidance only and is not a replacement for professional judgement. Consult with a professional, and local and federal standards, before ordering to ensure product is appropriate for the intended purpose and installation location. Also, please review Eaton's Light Pole White Paper for risk factors and design considerations. [Learn more.](#)

Specifications and dimensions subject to change without notice. Consult your lighting representative at Eaton or visit [www.eaton.com/lighting](http://www.eaton.com/lighting) for available options, accessories and ordering information.

**ORDERING INFORMATION**

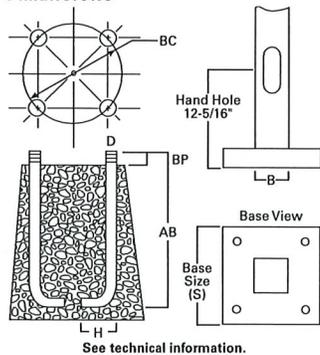
SAMPLE NUMBER: SSA5A20SFM1XG

**TBD**

| Product Family            | Shaft Size (Inches) <sup>1</sup> | Wall Thickness (Inches) | Mounting Height (Feet) | Base Type           | Finish                        | Mounting Type                 | Number and Location of Arms | Arm Lengths (Feet)                  | Options (Add as Suffix)                |
|---------------------------|----------------------------------|-------------------------|------------------------|---------------------|-------------------------------|-------------------------------|-----------------------------|-------------------------------------|--|
| SSS-Square Straight Steel | 4=4"                             | A=0.120"                | 10=10'                 | S=Square Steel Base | F=Dark Bronze                 | 2=2-3/8" O.D. Tenon (4" Long) | 1=Single                    | X=None                              | A=1/2" Tapped Hub <sup>3</sup>         |
|                           | 5=5"                             | M=0.188"                | 15=15'                 |                     | G=Galvanized Steel            | 3=3-1/2" O.D. Tenon (5" Long) | 2=2 at 180°                 | 2=2"                                | B=3/4" Tapped Hub <sup>3</sup>         |
|                           | 6=6"                             | X=0.250"                | 20=20'                 |                     | J=Summit White                | 4=4" O.D. Tenon (6" Long)     | 3=Triple <sup>2</sup>       | 3=2.5'                              | C=Convenience Outlet <sup>4</sup>      |
|                           |                                  |                         | 25=25'                 |                     | K=Carbon Bronze               | 9=3" O.D. Tenon (4" Long)     | 4=4 at 90°                  | 4=4'                                | E=GFCI Convenience Outlet <sup>4</sup> |
|                           |                                  |                         | 25=25'                 | L=Dark Platinum     | 6=2-3/8" O.D. Tenon (6" Long) | 5=2 at 90°                    | 6=6'                        | G=Ground Lug                        |  |
|                           |                                  |                         | 30=30'                 | R=HAT Iron Green    | 7=4" O.D. Tenon (10" Long)    | X=None                        | 8=8'                        | H=Additional Hand Hole <sup>5</sup> |  |
|                           |                                  |                         | 35=35'                 | S=Steel             | A=Type A Drilling             |                               |                             | V=Vibration Dampener                |  |
|                           |                                  |                         | 39=39'                 | T=Graphite Metallic | C=Type C Drilling             |                               |                             |                                     |  |
|                           |                                  |                         |                        | V=Grey              | E=Type E Drilling             |                               |                             |                                     |  |
|                           |                                  |                         |                        | W=White             | F=Type F Drilling             |                               |                             |                                     |  |
|                           |                                  |                         |                        | X=Custom Color      | G=Type G Drilling             |                               |                             |                                     |  |
|                           |                                  |                         |                        | Y=Black             | J=Type J Drilling             |                               |                             |                                     |  |
|                           |                                  |                         |                        |                     | K=Type K Drilling             |                               |                             |                                     |  |
|                           |                                  |                         |                        |                     | M=Type M Drilling             |                               |                             |                                     |  |
|                           |                                  |                         |                        |                     | N=Type N Drilling             |                               |                             |                                     |  |
|                           |                                  |                         |                        |                     | R=Type R Drilling             |                               |                             |                                     |  |
|                           |                                  |                         |                        |                     | S=Standard Upsweep Arm        |                               |                             |                                     |  |
|                           |                                  |                         |                        |                     | Z=Type Z Drilling             |                               |                             |                                     |  |

**NOTES:** 1. All shaft sizes nominal. 2. Square poles are 3 at 90°, round poles are 3 at 120°. 3. Tapped Hub is located 5' below the pole top and on the same side of pole as hand hole, unless specified otherwise. 4. Outlet is located 4' above base and on same side of pole as hand hole, unless specified otherwise. Receptacle not included, provision only. 5. Additional hand hole is located 12" below pole top and 90° from standard hand hole location, unless otherwise specified.

**DIMENSIONS**



TD513013EN  
June 6, 2018 11:14 AM



**Job Name:**  
4706 E Washington Ave

**Catalog Number:**  
SSS4A20S\*M1

Notes:

**Type:**

**TLM-4**

ELL19-84128

**Effective Projected Area (At Pole Top)**

| Mounting Height (Feet) | Catalog Number <sup>1,2</sup> | Wall Thickness (Inches) | Base Square <sup>3</sup> (Inches) | Bolt Circle Diameter (Inches) | Anchor Bolt Projection <sup>3</sup> (Inches) | Shaft Size <sup>3</sup> (Inches) | Anchor Bolt Diameter x Length x Hook (Inches) | Net Weight (Pounds) | Maximum Effective Projected Area (Square Feet) <sup>4</sup> |        |         |         | Max. Fixture Load - Includes Bracket (Pounds) |
|------------------------|-------------------------------|-------------------------|-----------------------------------|-------------------------------|--|----------------------------------|---|---------------------|---|--------|---------|---------|---|
|                        |                               |                         |                                   |                               |  |                                  |   |                     | 80 mph  | 90 mph | 100 mph | 110 mph |   |
| MH                     |                               |                         | S                                 | BC                            | BP   | B                                | D x AB x H                                    |                     |   |        |         |         |   |
| 10                     | SSS4A10S                      | 0.120                   | 10-1/2                            | 11                            | 4-1/2  | 4                                | 3/4 x 25 x 3                                  | 85                  | 30.0  | 22.0   | 17.0    | 13.0    | 100   |
| 15                     | SSS4A15S                      | 0.120                   | 10-1/2                            | 11                            | 4-1/2  | 4                                | 3/4 x 25 x 3                                  | 118                 | 15.0  | 11.5   | 8.7     | 6.5     | 100   |
| 20                     | SSS4A20S                      | 0.120                   | 10-1/2                            | 11                            | 4-1/2  | 4                                | 3/4 x 25 x 3                                  | 150                 | 8.7   | 5.9    | 3.9     | 2.5     | 150   |
| 20                     | SSS5A20S                      | 0.120                   | 10-1/2                            | 11                            | 4-1/2  | 5                                | 3/4 x 25 x 3                                  | 183                 | 15.4  | 11.1   | 7.9     | 5.5     | 150   |
| 25                     | SSS4A25S                      | 0.120                   | 10-1/2                            | 11                            | 4-1/2  | 4                                | 3/4 x 25 x 3                                  | 181                 | 3.7   | 1.7    | 0.3     | --      | 200   |
| 25                     | SSS5A25S                      | 0.120                   | 10-1/2                            | 11                            | 5  | 5                                | 3/4 x 25 x 3                                  | 222                 | 9.3   | 6.0    | 3.5     | 1.6     | 200   |
| 25                     | SSS6A25S                      | 0.120                   | 12-1/2                            | 12-1/2                        | 5  | 6                                | 1 x 36 x 4                                    | 284                 | 9.9   | 6.1    | 3.5     | 1.2     | 200   |
| 30                     | SSS5A30S                      | 0.120                   | 10-1/2                            | 11                            | 4-1/2  | 5                                | 3/4 x 25 x 3                                  | 260                 | 4.7   | 2.1    | --      | --      | 200   |
| 30                     | SSS5M30S                      | 0.188                   | 10-1/2                            | 11                            | 4-1/2  | 5                                | 3/4 x 25 x 3                                  | 392                 | 10.4  | 6.4    | 3.5     | 1.5     | 200   |
| 30                     | SSS6A30S                      | 0.120                   | 12-1/2                            | 12-1/2                        | 5  | 6                                | 1 x 36 x 4                                    | 330                 | 4.3   | 1.4    | --      | --      | 200   |
| 30                     | SSS6M30S                      | 0.188                   | 12-1/2                            | 12-1/2                        | 5  | 6                                | 1 x 36 x 4                                    | 489                 | 19.0  | 13.0   | 8.7     | 5.6     | 200   |
| 35                     | SSS5M35S                      | 0.188                   | 10-1/2                            | 11                            | 4-1/2  | 5                                | 3/4 x 25 x 3                                  | 453                 | 5.8   | 2.8    | --      | --      | 200   |
| 35                     | SSS6M35S                      | 0.188                   | 12-1/2                            | 12-1/2                        | 5  | 6                                | 1 x 36 x 4                                    | 564                 | 12.8  | 7.2    | 3.7     | 1.0     | 200   |
| 35                     | SSS6X35S                      | 0.250                   | 12-1/2                            | 12-1/2                        | 5  | 6                                | 1 x 36 x 4                                    | 738                 | 16.5  | 11.0   | 6.8     | 3.5     | 200   |
| 39                     | SSS6M39S                      | 0.188                   | 12-1/2                            | 12-1/2                        | 5  | 6                                | 1 x 36 x 4                                    | 618                 | 7.3   | 3.0    | --      | --      | 300   |
| 39                     | SSS6X39S                      | 0.250                   | 12-1/2                            | 12-1/2                        | 5  | 6                                | 1 x 36 x 4                                    | 816                 | 13.0  | 7.0    | 3.7     | 0.8     | 300   |

**Effective Projected Area (Two Feet Above Pole Top)**

| Mounting Height (Feet) | Catalog Number <sup>1,2</sup> | Wall Thickness (Inches) | Base Square <sup>3</sup> (Inches) | Bolt Circle Diameter (Inches) | Anchor Bolt Projection <sup>3</sup> (Inches) | Shaft Size <sup>3</sup> (Inches) | Anchor Bolt Diameter x Length x Hook (Inches) | Net Weight (Pounds) | Maximum Effective Projected Area (Square Feet) <sup>4</sup> |        |         |         | Max. Fixture Load - Includes Bracket (Pounds) |
|------------------------|-------------------------------|-------------------------|-----------------------------------|-------------------------------|--|----------------------------------|---|---------------------|---|--------|---------|---------|---|
|                        |                               |                         |                                   |                               |  |                                  |   |                     | 80 mph  | 90 mph | 100 mph | 110 mph |   |
| MH                     |                               |                         | S                                 | BC                            | BP   | B                                | D x AB x H                                    |                     |   |        |         |         |   |
| 10                     | SSS4A10S                      | 0.120                   | 10-1/2                            | 11                            | 4-1/2  | 4                                | 3/4 x 25 x 3                                  | 85                  | 23.0  | 17.5   | 14.0    | 11.0    | 100   |
| 15                     | SSS4A15S                      | 0.120                   | 10-1/2                            | 11                            | 4-1/2  | 4                                | 3/4 x 25 x 3                                  | 118                 | 13.4  | 10.0   | 7.5     | 5.7     | 100   |
| 20                     | SSS4A20S                      | 0.120                   | 10-1/2                            | 11                            | 4-1/2  | 4                                | 3/4 x 25 x 3                                  | 150                 | 7.6   | 5.2    | 3.4     | 2.1     | 150   |
| 20                     | SSS5A20S                      | 0.120                   | 10-1/2                            | 11                            | 4-1/2  | 5                                | 3/4 x 25 x 3                                  | 183                 | 13.8  | 9.9    | 7.1     | 4.9     | 150   |
| 25                     | SSS4A25S                      | 0.120                   | 10-1/2                            | 11                            | 4-1/2  | 4                                | 3/4 x 25 x 3                                  | 181                 | 3.4   | 1.6    | 0.3     | --      | 200   |
| 25                     | SSS5A25S                      | 0.120                   | 10-1/2                            | 11                            | 5  | 5                                | 3/4 x 25 x 3                                  | 222                 | 8.5   | 5.5    | 3.2     | 1.5     | 200   |
| 25                     | SSS6A25S                      | 0.120                   | 12-1/2                            | 12-1/2                        | 5  | 6                                | 1 x 36 x 4                                    | 284                 | 9.1   | 5.6    | 3.0     | 1.2     | 200   |
| 30                     | SSS5A30S                      | 0.120                   | 10-1/2                            | 11                            | 4-1/2  | 5                                | 3/4 x 25 x 3                                  | 260                 | 1.8   | --     | --      | --      | 200   |
| 30                     | SSS5M30S                      | 0.188                   | 10-1/2                            | 11                            | 4-1/2  | 5                                | 3/4 x 25 x 3                                  | 392                 | 9.6   | 5.9    | 1.9     | 0.2     | 200   |
| 30                     | SSS6A30S                      | 0.120                   | 12-1/2                            | 12-1/2                        | 5  | 6                                | 1 x 36 x 4                                    | 330                 | 4.1   | 1.3    | --      | --      | 200   |
| 30                     | SSS6M30S                      | 0.188                   | 12-1/2                            | 12-1/2                        | 5  | 6                                | 1 x 36 x 4                                    | 489                 | 18.5  | 12.5   | 8.4     | 5.3     | 200   |
| 35                     | SSS5M35S                      | 0.188                   | 10-1/2                            | 11                            | 4-1/2  | 5                                | 3/4 x 25 x 3                                  | 453                 | 5.5   | 2.4    | --      | --      | 200   |
| 35                     | SSS6M35S                      | 0.188                   | 12-1/2                            | 12-1/2                        | 5  | 6                                | 1 x 36 x 4                                    | 564                 | 11.8  | 7.0    | 3.5     | 1.0     | 200   |
| 35                     | SSS6X35S                      | 0.250                   | 12-1/2                            | 12-1/2                        | 5  | 6                                | 1 x 36 x 4                                    | 738                 | 16.0  | 10.5   | 6.4     | 3.4     | 200   |
| 39                     | SSS6M39S                      | 0.188                   | 12-1/2                            | 12-1/2                        | 5  | 6                                | 1 x 36 x 4                                    | 618                 | 7.0   | 2.4    | --      | --      | 300   |
| 39                     | SSS6X39S                      | 0.250                   | 12-1/2                            | 12-1/2                        | 5  | 6                                | 1 x 36 x 4                                    | 816                 | 12.0  | 6.7    | 3.0     | 0.5     | 300   |

NOTES:

1. Catalog number includes pole with hardware kit. Anchor bolts not included. Before installing, make sure proper anchor bolts and templates are obtained.
2. Tenon size or machining for rectangular arms must be specified. Hand hole position relative to drill location.
3. Shaft size, base square, anchor bolts and projections may vary slightly. All dimensions nominal.
4. EPAs based on shaft properties with wind normal to flat. EPAs calculated using base wind velocity as indicated plus 30% gust factor.



Eaton  
1121 Highway 74 South  
Peachtree City, GA 30269  
P: 770-486-4800  
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

TD513013EN  
June 6, 2018 11:14 AM