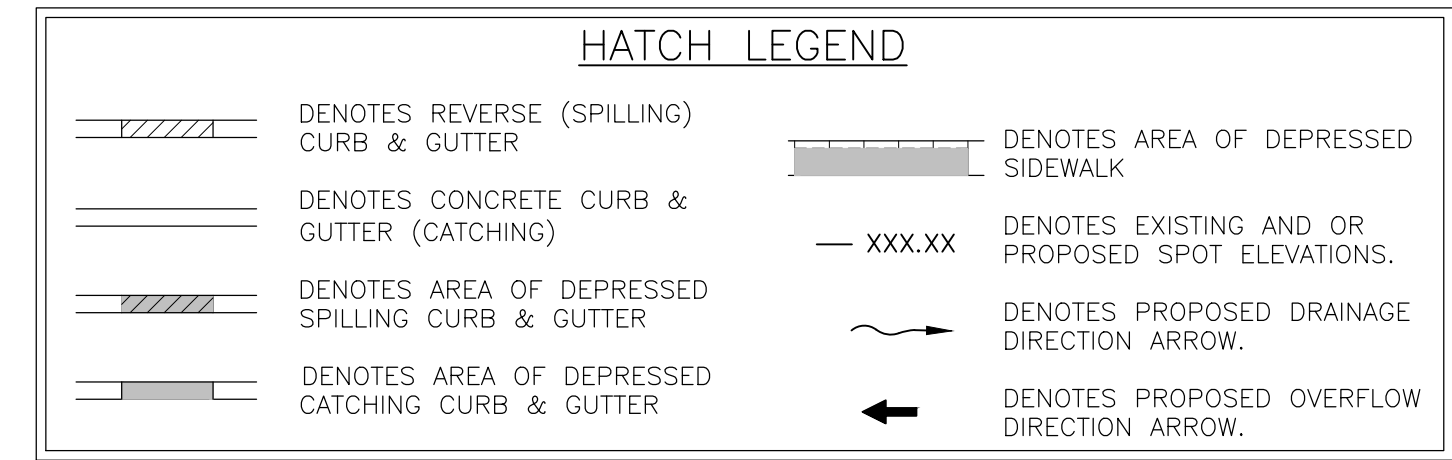
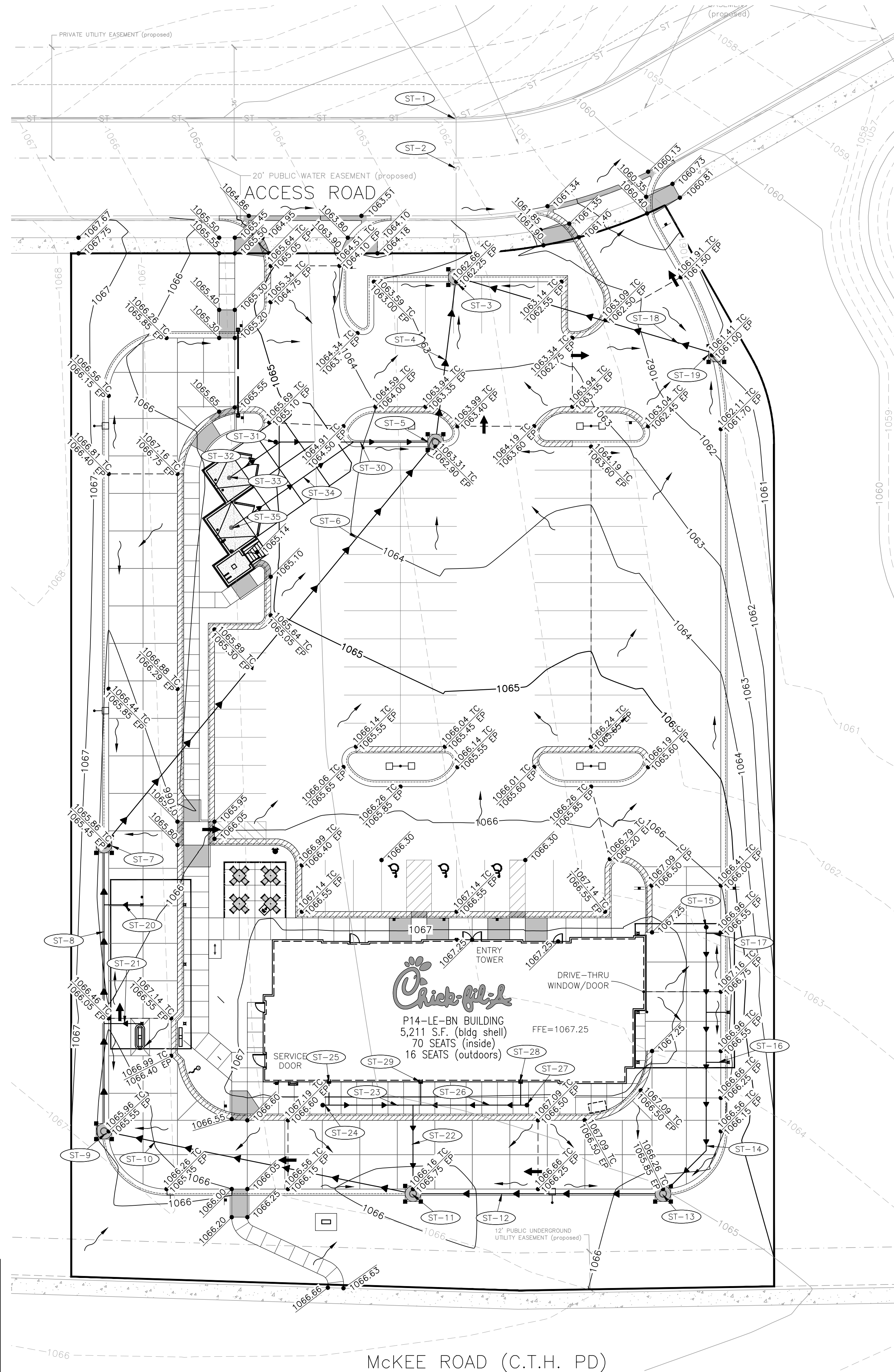


GRADING & DRAINAGE NOTES

- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF SITE PLAN DOCUMENTS AND ARCHITECTURAL DESIGN FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS, GREASE TRAP REQUIREMENTS/DETAILS, DOOR ACCESS, AND EXTERIOR GRADING. THE UTILITY SERVICE SIZES ARE TO BE DETERMINED BY THE ARCHITECT. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES/SERVICES WITH THE INDIVIDUAL COMPANIES, TO AVOID CONFLICTS AND ENSURE PROPER DEPTHS ARE ACHIEVED. THE JURISDICTION UTILITY REQUIREMENTS SHALL ALSO BE MET, AS WELL AS COORDINATING THE UTILITY TIE-INS/CONNECTIONS PRIOR TO CONNECTING TO THE EXISTING UTILITY/SERVICE. WHERE CONFLICTS EXIST WITH THESE SITE PLANS, ENGINEER IS TO BE NOTIFIED PRIOR TO CONSTRUCTION TO RESOLVE SAME.
- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEOTECHNICAL REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED AS OUTLINED IN THE GEOTECHNICAL REPORT. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL BE SUBMITTED IN COMPACTION REPORT PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER, REGISTERED WITH THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT. SUBBASE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT SHALL BE FREE OF ORGANIC AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DETERMINED UNSUITABLE BY OWNER OR OWNER'S REPRESENTATIVE, SUBBASE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED AS DIRECTED BY THE GEOTECHNICAL REPORT.
- ALL FILL, COMPACTION, AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION SHALL BE AS PER THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT AND SHALL BE COORDINATED WITH THE APPLICABLE UTILITY COMPANY SPECIFICATIONS.
- THE CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS AND REGULATIONS, OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE "MEANS AND METHODS" REQUIRED TO MEET THE INTENT AND PERFORMANCE CRITERIA OF OSHA, AS WELL AS ANY OTHER ENTITY THAT HAS JURISDICTION FOR EXCAVATION AND/OR TRENCHING PROCEDURES.
- PAVEMENT SHALL BE SAW CUT IN STRAIGHT LINES TO THE FULL DEPTH OF THE EXISTING PAVEMENT. ALL DEBRIS FROM REMOVAL OPERATIONS SHALL BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS WILL NOT BE PERMITTED.
- THE TOPS OF EXISTING MANHOLES, INLET STRUCTURES, AND SANITARY CLEANOUT TOPS SHALL BE ADJUSTED, IF REQUIRED, TO MATCH PROPOSED GRADES IN ACCORDANCE WITH ALL APPLICABLE STANDARDS.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO ENSURE 0.75% MINIMUM SLOPE ALONG ALL ISLANDS, GUTTERS, AND CURBS; 1.0% ON ALL CONCRETE SURFACES; AND 1.5% MINIMUM ON ASPHALT, TO PREVENT PONDING. ANY DISCREPANCIES THAT MAY AFFECT THE PUBLIC SAFETY OR PROJECT COST MUST BE IDENTIFIED TO THE ENGINEER IN WRITING IMMEDIATELY. PROCEEDING WITH CONSTRUCTION WITHOUT NOTIFICATION IS DONE SO AT THE CONTRACTOR'S OWN RISK.
- PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MINIMUM OF 0.75% GUTTER GRADE ALONG CURB FACE. ENGINEER TO APPROVE FINAL CURBING CUT SHEETS PRIOR TO INSTALLATION.
- IN CASE OF DISCREPANCIES BETWEEN PLANS OR RELATIVE TO OTHER PLANS, THE SITE PLAN WILL TAKE PRECEDENCE. IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY CONFLICTS.
- CONTRACTOR SHALL BE REQUIRED TO SECURE ALL NECESSARY PERMITS AND APPROVALS FOR ALL OFF-SITE MATERIAL SOURCES AND DISPOSAL FACILITIES. CONTRACTOR SHALL SUPPLY A COPY OF APPROVALS TO ENGINEER AND OWNER PRIOR TO INITIATING WORK.
- SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
- SEE EROSION CONTROL PLAN FOR EROSION CONTROL MEASURES AND NOTES.
- ALL EXISTING STRUCTURES, UNLESS OTHERWISE NOTED TO REMAIN, FENCING, TREES, & ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED & DISPOSED OF OFF SITE. NO ON SITE BURNING WILL BE ALLOWED.
- ALL DRAINAGE STRUCTURES SHALL BE PRE-CAST.
- ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES SHALL MEET HEAVY DUTY TRAFFIC (H20) LOADING AND BE INSTALLED ACCORDINGLY.
- GENERAL CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAY PRIOR TO EXCAVATION. CONTRACTOR SHALL CONTACT UTILITY LOCATING COMPANY AND LOCATE ALL UTILITIES PRIOR TO GRADING START.
- NO PART OF THE PROPOSED PROJECT IS LOCATED WITHIN A FLOOD HAZARD AREA.
- SPOT ELEVATIONS SHOWN ARE @ EDGE OF PAVEMENT UNLESS OTHERWISE NOTED ON PLAN.
- ALL CONCRETE CURB & GUTTER SHALL BE TYPE B-6.18 CURB UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL STORM SEWER JOINTS SHALL HAVE O-RING GASKETS.
- MATCH EXISTING GRADES AT PROPERTY LINES AND/OR CONSTRUCTION LIMITS.
- BACKFILL TO THE TOP OF CURBS.
- SITE SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS.
- ALL SIDEWALK CROSS SLOPES SHALL BE A MAXIMUM OF 1.5%.
- DESIGNATED HANDICAP PARKING AREAS SHALL BE GRADED TO A MAXIMUM OF 1.5%.
- SLOPES IN PAVEMENT SHALL BE UNIFORM TO AVOID PONDING OF PAVEMENT.
- THE CONTRACTOR SHALL CONFINE HIS GRADING OPERATIONS TO WITHIN CONSTRUCTION LIMITS AND EASEMENTS SHOWN ON THE PLANS. ANY DAMAGE TO PROPERTIES OUTSIDE THE SITE BOUNDARY SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL APPLY NECESSARY MOISTURE CONTROL TO THE CONSTRUCTION AREA AND HAUL ROADS TO PREVENT THE SPREAD OF DUST.
- ALL FILL TILES ENCOUNTERED SHALL BE REPLACED AND/OR CONNECTED TO THE STORM SEWER SYSTEM AND LOCATED AND IDENTIFIED ON THE RECORD PLANS BY THE CONTRACTOR.
- ALL STORM DRAINAGE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT CITY OF FITCHBURG STANDARDS & SPECIFICATIONS AND THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES STANDARDS.



- GENERAL NOTES:**
- ACCESSIBLE PARKING, RAMPS, AND SIGNAGE SHALL COMPLY WITH ADA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES.
 - ALL WORK SHALL BE IN ACCORDANCE WITH OSHA CODES AND STANDARDS, NOTHING INDICATED ON THE DRAWINGS SHALL RELIEVE THE CONTRACTOR FROM COMPLYING WITH ANY APPROPRIATE SAFETY REGULATIONS.
 - 1 WEEK PRIOR TO CONSTRUCTION WITHIN CITY OR STATE ROW OR ANY CONNECTION TO PUBLIC SEWERS, CONTRACTOR SHALL NOTIFY THE APPROPRIATE CITY ENGINEERING DIVISION.
 - CONTRACTOR TO VERIFY BUILDING DIMENSIONS WITH ARCHITECTURAL PLANS. PLACE 3/4" INCH EXPANSION JOINT BETWEEN ALL P.C.C. PAVEMENT/ SIDEWALKS AND BUILDING. PLACE 1/2" INCH EXPANSION JOINT BETWEEN SIDEWALKS AND P.C.C. PAVEMENT. CUT/TRIM EXPANSION JOINTS TO BE FLUSH WITH SURFACE.
 - ALL PROPERTY PINS SHALL BE PROTECTED FROM GRADING OR OTHER OPERATIONS. ANY PINS DISTURBED SHALL BE RESET AT THE CONTRACTOR'S EXPENSE.
 - DO NOT STORE CONSTRUCTION MATERIALS AND EQUIPMENT IN THE RIGHT-OF-WAY.
 - THE CONTRACTOR SHALL NOT DISTURB DESIRABLE GRASS AREAS AND DESIRABLE TREES OUTSIDE THE CONSTRUCTION LIMITS. THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK OR SERVICE VEHICLES AND EQUIPMENT OR USE THESE AREAS FOR STORAGE OF MATERIALS. STORAGE, PARKING AND SERVICE AREAS WILL BE SUBJECT TO THE APPROVAL OF THE OWNER.
 - THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY AREAS OF PAVEMENT OR SIDEWALK NOT TO BE REMOVED THAT IS DAMAGED DUE TO OPERATING EQUIPMENT ON THE PAVEMENT OR SIDEWALK.
 - THE CONTRACTOR MAY BE REQUIRED TO PLACE TEMPORARY WARNING DEVICES AND SAFETY FENCE AT CERTAIN LOCATIONS WHERE REPLACEMENT FEATURES ARE NOT INSTALLED THE SAME DAY, AS DIRECTED BY THE ENGINEER OR THE CITY.
 - ALL CONSTRUCTION WITHIN PUBLIC ROW/EASEMENTS AND/OR ANY CONNECTION TO PUBLIC SEWERS AND STREETS, SHALL COMPLY WITH THE CITY CONSTRUCTION SPECIFICATIONS FOR SUBDIVISIONS AND LATEST EDITION OF WISDOT DESIGN STANDARDS.
 - EXCAVATION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.
 - CONTRACTOR TO GRADE 4" BELOW THE BACK OF CURB TO ALLOW FOR THE PLACEMENT OF TOPSOIL. A MINIMUM OF 4" OF TOPSOIL SHALL BE PLACED IN ALL PLANTING BEDS AND ALL GRASSSED AREAS. GRADED AREAS TO BE HELD DOWN TO THE APPROPRIATE ELEVATION TO ACCOUNT FOR TOPSOIL. SEE SHEET L-101 FOR DETAILS.

- TRAFFIC CONTROL NOTES:**
- ALL APPLICABLE CITY PERMITS, INCLUDING BUT NOT LIMITED TO CLOSURE PERMITS, SHALL BE OBTAINED PRIOR TO ANY CONSTRUCTION WITHIN CITY ROW OR LANE CLOSURES.
 - ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - SIDEWALK CLOSED SIGNS REQUIRED FOR ALL SIDEWALK CLOSURES.
 - THE CONTRACTOR IS CAUTIONED NEITHER TO OBSTRUCT NOR REMOVE ANY EXISTING PAVEMENT, NOR TO DISTURB THE EXISTING TRAFFIC PATTERNS MORE THAN IS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.

ST-# STORM TAGS

- SEE SHEET PS-101 FOR STORM SEWER TAGS

NOTE:

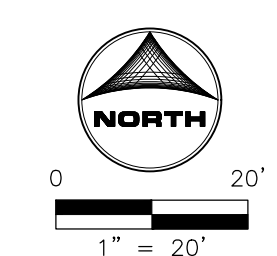
- ALL STORM STRUCTURES WITHIN PAVED AREAS REQUIRE WEEP HOLES. SEE DETAIL 10 ON SHEET C-403 FOR WEEP HOLE DETAILS.

EXISTING SURFACE NOTE:

- EXISTING SURFACE CONTOURS ON PLAN SHOW SITE MASS GRADING CONDITIONS TO BE PREPARED BY LANDLORD. LANDLORD IS RESPONSIBLE FOR PROVIDING CFA A PAD GRADED SITE TO PROPOSED SUBGRADE ELEVATIONS.

SITE DATA:

- LOT SIZE: 74,058± SQ. FT. (1.69 AC.)
- PROPOSED IMPERVIOUS AREA: 55,360± SQ. FT. (74.8%)



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McKEE ROAD & FITCHRONA ROAD
FITCHBURG, WI 53719

FSU# 05918

REVISION SCHEDULE NO.	DATE	DESCRIPTION

PRELIMINARY

ENGINEER'S PROJECT # **2402494**
 PRINTED FOR **PRELIMINARY**
 DATE **10/07/2024**
 DRAWN BY: **ERN**
 CHECKED BY: **JFV**
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 SHEET **GRADING PLAN**
 SHEET NUMBER **C-300**

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WITH THE FOLLOWING:
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 CITY-TOWNSHIP **CITY OF FITCHBURG**
 SEC. & 1/4 SEC. NO.# **SE1/4 OF SEC6-T6N-R9E**

3 working days prior notice before digging.
 Diggers Hotline is open 24 hours a day, 7 days a week, 365 days a year!

UTILITY NOTES

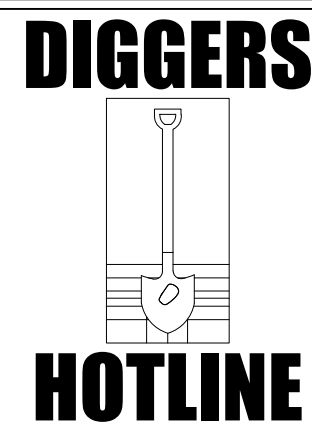
- REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING PLANS FOR DUTY SERVICE SIZES AND EXACT LOCATIONS. CONTRACTOR TO CONFIRM SIZES OF ALL SERVICES PRIOR TO INSTALLATION. REFER TO ELECTRICAL PLANS FOR ELECTRIC AND TELEPHONE SERVICE CONSTRUCTION DETAILS. REFER TO MECHANICAL PLANS FOR GAS SERVICE CONSTRUCTION DETAILS.
- FIELD VERIFY ELEVATIONS AND LOCATIONS OF ALL CONNECTIONS TO EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
- PROVIDE TEMPORARY SUPPORT FOR EXISTING UTILITY LINES THAT ARE ENCOUNTERED DURING CONSTRUCTION UNTIL BACKFILLING IS COMPLETE.
- MAINTAIN A MINIMUM OF 6.0' COVER OVER ALL WATER MAINS.
- MAINTAIN A MINIMUM OF 6.0' COVER OVERALL SANITARY SEWER.
- ADJUST ALL MANHOLES AND FRAMES TO FINISHED GRADES.
- ALL SANITARY SEWER AND WATER SERVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF FITCHBURG AND STATE OF WISCONSIN PLUMBING CODE.
- 12" MINIMUM VERTICAL CLEARANCE BETWEEN STORM SEWER AND SANITARY SEWER PIPES. 18" MINIMUM VERTICAL CLEARANCE BETWEEN SANITARY/STORM SEWER AND WATER MAIN.
- MAINTAIN A MINIMUM OF 8' HORIZONTAL SEPARATION BETWEEN SANITARY SEWER LINES AND PUBLIC WATER MAINS.
- WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS. THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATIONS AND TO AVOID DAMAGE THEREOF. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK. THE CONTRACTOR IS REQUIRED TO UTILIZE THE UTILITY CALL DIGGERS HOTLINE AT 1-800-242-8511 AT LEAST 72 HOURS PRIOR TO EXCAVATING ANYWHERE ON THE PROJECT.
- LOCATION OF SITE UTILITIES SHALL BE VERIFIED WITH PROPER UTILITY COMPANY PROVIDING SERVICE.
- ALL WATER AND SANITARY LEADS TO BUILDING SHALL END 5' OUTSIDE THE BUILDING LIMITS AS SHOWN ON PLAN AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AT END.
- SEE SITE SPECIFICATIONS "UNDERGROUND UTILITIES" FOR BACKFILLING AND COMPACTION REQUIREMENTS.
- GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL TAP AND TIE ON FEES REQUIRED, AS WELL AS COST OF UNDERGROUND SERVICE CONNECTIONS TO THE BUILDING.
- ELECTRICAL SERVICE TO PAD MOUNTED TRANSFORMER SHALL BE RUN UNDERGROUND, FROM ROAD RIGHT-OF-WAY TO TRANSFORMER LOCATION. ASSOCIATED COST BY GENERAL CONTRACTOR.
- ALL EXISTING UTILITIES TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- FOR EXACT LIGHT POLE LOCATIONS SEE PHOTOMETRIC PLAN.
- MATERIAL PERMITTED FOR USE AS SANITARY SEWER PIPES SHALL BE SDR 26 FOR 4" & 6".
- MADISON GAS & ELECTRIC COMPANY WILL FURNISH AND INSTALL THE GAS MAINS AND GAS SERVICE UP TO AND INCLUDING THE METER. MADISON GAS & ELECTRIC COMPANY WILL BORE THE NEW SERVICE LINE UNDER PAVEMENT.
- CONTRACTOR TO FURNISH AND INSTALL (1) 4" SCHEDULE 40 PVC CONDUITS FOR TELEPHONE SERVICE FROM AT&T PEDESTAL TO BUILDING. AT&T TO SUPPLY, PROVIDE AND INSTALL PRIMARY TELEPHONE SERVICE. CONDUITS TO BE INSTALLED A MINIMUM 24" BELOW FINISHED GRADE.
- CONTRACTOR TO FURNISH AND INSTALL (2) 4" SCHEDULE 40 PVC CONDUITS WITH PULL WIRE FOR PRIMARY ELECTRIC SERVICE. MADISON GAS & ELECTRIC COMPANY TO PROVIDE AND INSTALL PRIMARY ELECTRIC SERVICE. CONTRACTOR TO FURNISH AND INSTALL (4) 4" SCHEDULE 40 PVC CONDUITS WITH PULL WIRE FOR SECONDARY ELECTRIC SERVICE. CONDUITS SHALL HAVE A MINIMUM OF 36" OF COVER. CONTRACTOR TO PROVIDE AND INSTALL TRANSFORMER PAD AND SECONDARY SERVICE IN ACCORDANCE WITH MADISON GAS & ELECTRIC COMPANY SPECIFICATIONS AND REQUIREMENTS. TRANSFORMER PAD SHALL BE INSTALLED TO FINAL GRADE AND LEVELED.
- CONTRACTOR TO FURNISH AND INSTALL (1) 3" SCHEDULE 40 PVC CONDUIT WITH PULL STRING FOR ISP SERVICE FROM AT&T MAIN TO BUILDING. AT&T TO SUPPLY, PROVIDE AND INSTALL ISP SERVICE. CONDUIT TO BE INSTALLED MINIMUM 24" BELOW FINISHED GRADE.
- ALL SEWER CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE CITY OF FITCHBURG.
- ALL CONNECTIONS TO PUBLIC SANITARY SEWERS SHALL BE PER CITY STANDARD SPECIFICATIONS.
- THE CFA FIRE WATER SERVICE PIPE SHALL BE PVC C900 PIPE.
- ALL FIELD TILES ENCOUNTERED SHALL BE REPLACED AND/OR CONNECTED TO THE STORM SEWER SYSTEM AND LOCATED AND IDENTIFIED ON THE RECORD PLANS BY THE CONTRACTOR.
- ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
- PROVIDE UNDERDRAINS FROM SEEPS OR SPRINGS ENCOUNTERED. EXTEND TO STORM SEWER SYSTEM OR DAYLIGHT AT THE BOTTOM OF THE FILL SLOPE.
- ALL PROPOSED PIPE CONNECTIONS TO EXISTING OR PROPOSED MANHOLES SHALL CONFORM TO ASTM-C923.
- TRACER WIRE IS REQUIRED PER STATE AND CITY STANDARDS.
- THE LOCATION/SIZE/DEPTH/MATERIAL OF ALL SERVICE STUBS SHALL BE FIELD VERIFIED. NOTIFY ENGINEER WITH ANY DISCREPANCIES FROM PLAN.

MISCELLANEOUS NOTES:

- ALL BUILDING UTILITY SERVICE LOCATIONS TO BE VERIFIED W/ ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.
- FOR EXACT LIGHT POLE LOCATIONS SEE PHOTOMETRIC PLAN.
- AT LEAST ONE WEEK PRIOR TO ANY CONSTRUCTION WITHIN PUBLIC R.O.W./ EASEMENTS AND/OR ANY CONNECTION TO PUBLIC SEWERS AND STREETS, THE CONTRACTOR SHALL CONTACT THE CITY AND/OR WISDOT TO OBTAIN APPLICABLE PERMITS.
- WORK WITHIN THE ROW SHALL BE DONE IN ACCORDANCE WITH THE CITY SPECIFICATIONS.
- ONLY THE CITY OF FITCHBURG PUBLIC WORKS DEPARTMENT MAY OPERATE EXISTING VALVES.
- THE CONTRACTOR MUST CONTACT THE CITY OF FITCHBURG PUBLIC WORKS DEPARTMENT TO SCHEDULE INSPECTIONS FOR ALL WORK WITHIN THE ROW.
- TRACER WIRE SHALL BE INSTALLED ON ALL WATER SERVICE PIPE PER CITY SPECIFICATIONS. TRACER WIRE ON THE WATER SERVICE SHALL BE CONNECTED TO THE TRACER WIRE ON THE WATER MAIN AND INSTALLED IN ACCORDANCE WITH CITY SPECIFICATIONS.

ONSITE WATERLINE NOTES:

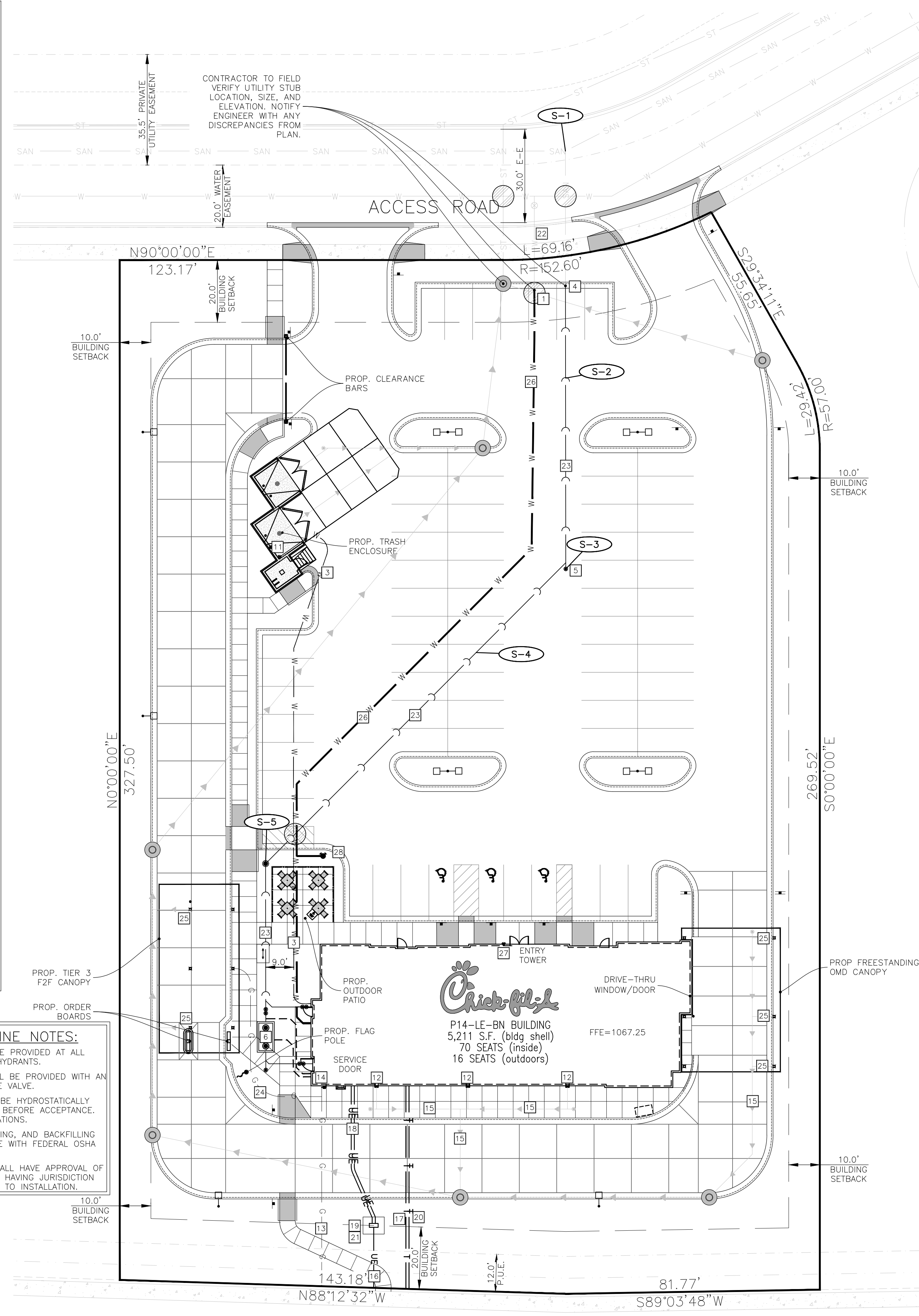
- THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS, TEES, AND FIRE HYDRANTS.
- ALL FIRE HYDRANTS SHALL BE PROVIDED WITH AN APPROVED AUXILIARY GATE VALVE.
- ALL WATER MAINS SHALL BE HYDROSTATICALLY TESTED AND DISINFECTED BEFORE ACCEPTANCE. SEE SITE WORK SPECIFICATIONS.
- ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
- GENERAL CONTRACTOR SHALL HAVE APPROVAL OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THIS SYSTEM PRIOR TO INSTALLATION.



CALL DIGGERS HOTLINE
1-800-242-8511

WITH THE FOLLOWING:
COUNTY DANE COUNTY
CITY-TOWNSHIP CITY OF FITCHBURG
SEC. & 1/4 SEC. NO.# SE1/4 OF SEC6-T6N-R9E

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SITE DATA:

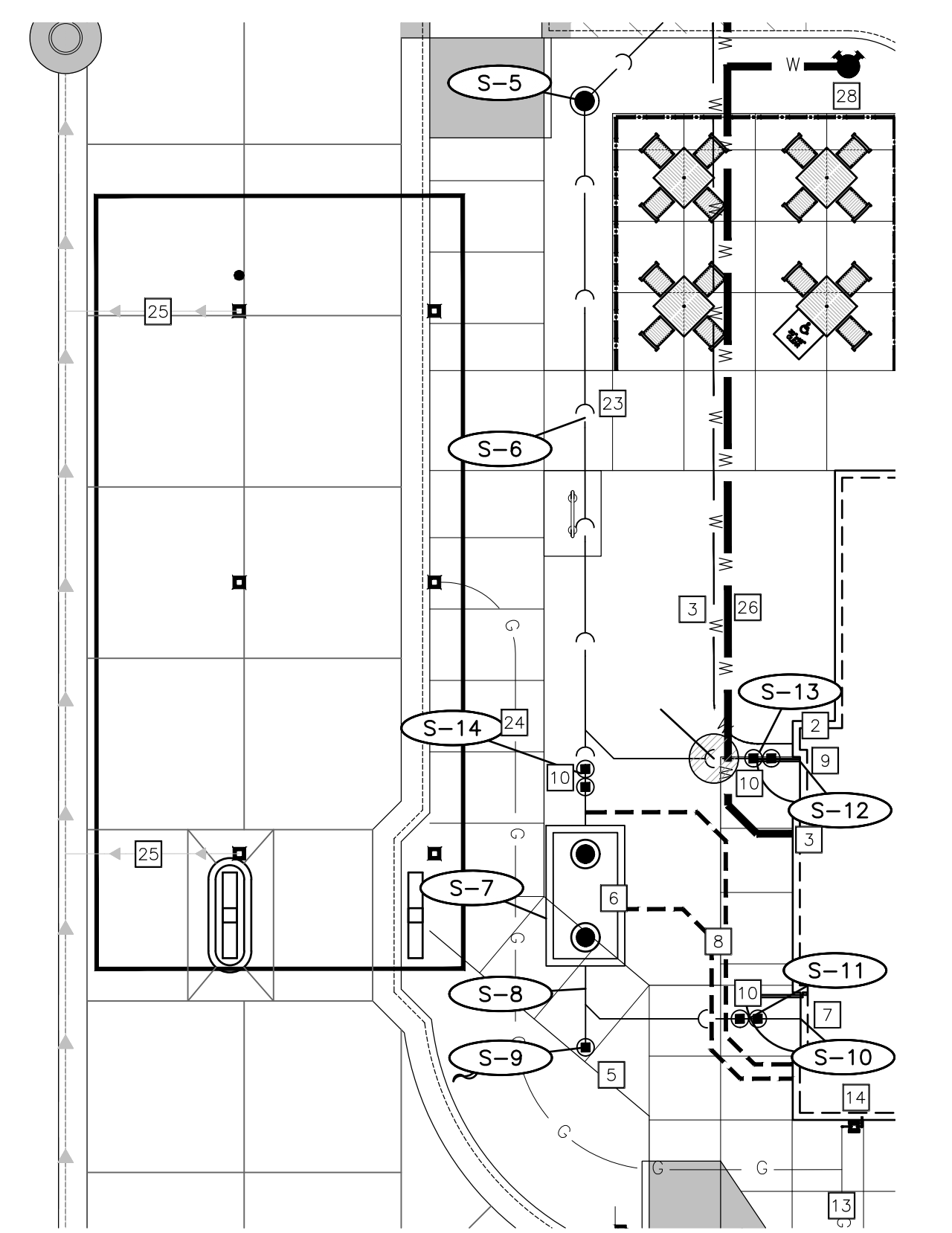
- LOT SIZE: 74,058± SQ. FT. (1.69 AC.)
- PROPOSED IMPERVIOUS AREA: 55,360± SQ. FT. (74.8%)

McKEE ROAD (C.T.H. PD)

LAYOUT NOTES

- PAY CONNECTION FEES FOR 2" DOMESTIC & 6" FIRE WATER SERVICES AND METERS. DOMESTIC SERVICE LINE TO TAP FIRE LINE INTERNAL TO BUILDING.
- 1.5" SOFT COPPER (TYPE K) IRRIGATION LINE TO HAVE SEPARATE METER LOCATION ADJACENT TO DOMESTIC WATER METER INTERNAL TO THE BUILDING. MAINTAIN MIN. 6.0' COVER.
- 3/4" CW TO DUMPSTER POST HYDRANT (SOFT COPPER TYPE K). MAINTAIN MIN. 6.0' COVER.
- CONNECTION TO EXIST. 6" SANITARY SEWER SERVICE STUB. CONTRACTOR TO VERIFY INVERT AT STUB PRIOR TO ORDERING STRUCTURES. SEE SANITARY TAGS FOR INFO.
- 4" OR 6" CLEAN OUT (SEE DETAIL). CLEANOUT SHALL BE FLUSH W/ PAVEMENT & INSTALLED UNDER A PROTECTIVE METAL BOX COVER SIMILAR TO A METER PIT COVER WITH A TRAFFIC BEARING LID.
- PRECAST 2,000 GAL. CAPACITY GREASE TRAP. PLUMBING CONTRACTOR TO COORDINATE WITH BUILDING CONTRACTOR. TOP OF MANHOLE TO BE 0.2' ABOVE FINISH GRADE AND MATCH SIDEWALK GRADES WHERE REQUIRED. VERIFY GREASE TRAP MEETS CITY/STATE SPECIFICATIONS PRIOR TO INSTALLATION. REFER TO PLUMBING PLAN, SHEET P-101.
- 4" KITCHEN WASTE LINE (SEE SANITARY TAGS FOR INFO)
- 3" VENT LINE. CONNECT TO GREASE INTERCEPTOR. (SEE SHEET P-101 FOR LOCATION)
- 4" RESTROOM WASTE LINE (SEE SANITARY TAGS FOR INFO)
- 4" OR 6" TWO-WAY CLEAN OUT (REFER TO PLUMBING PLANS)(SEE DETAIL 37/C-403)
- DUMPSTER POST HYDRANT. REFER TO THE FIXTURE CONNECTION SCHEDULE (P-303) DEPICTED ON THE PROJECT PLUMBING PLANS.
- DOWNSPOUT FOR ROOF DRAINAGE (REFER TO ARCHITECTURAL PLANS)
- PROPOSED GAS SERVICE (SEE NOTE 19)
- COORDINATE GAS METER INSTALLATION WITH GAS COMPANY.
- 8" PVC SDR 26 ROOF DRAIN PIPE SYSTEM (CONNECT TO SITE STORM DRAIN)
- UNDERGROUND PRIMARY ELECTRIC SERVICE. (SEE NOTE 21)
- UNDERGROUND PRIMARY TELEPHONE SERVICE. (SEE NOTE 20)
- UNDERGROUND SECONDARY ELECTRIC SERVICE TO BUILDING. (SEE NOTE 21)
- PROPOSED PAD MOUNTED TRANSFORMER PER ELECTRIC COMPANY STANDARDS. SEE SERVICE UTILITY NOTES, THIS SHEET.
- UNDERGROUND ISP SERVICE (SEE NOTE 22)
- INSTALL TRANSFORMER PAD (SEE NOTE 21)
- EXISTING 6" WATER SERVICE STUB (CONTRACTOR TO VERIFY EXACT LOCATION, MATERIAL, & DEPTH PRIOR TO ORDERING MATERIAL)
- 6" PVC SDR 26 - SANITARY SERVICE PIPE
- 1.5" GAS SERVICE LINE TO DRIVE-THRU CANOPY
- 6" PVC SDR 26 CANOPY DRAIN SYSTEM (CONNECT TO SITE STORM DRAIN)
- 6" FIRE SERVICE LINE - PVC C900 PIPE - OPEN TRENCH
- FIRE DEPARTMENT CONNECTION
- FIRE HYDRANT ASSEMBLY WITH AUXILIARY VALVE & VALVE BOX

S-#	SANITARY SEWER TAGS	CONFLICT TAGS
* SEE SHEET PS-101 FOR TAGS		* SEE SHEET PS-101 FOR TAGS



1 UTILITY LAYOUT BLOW-UP DETAIL
SCALE: 1"=10'

LEGEND:

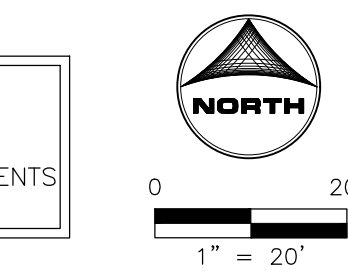
- DENOTES MAINTAIN 18" VERTICAL SEPARATION PER WIDNR'S REQUIREMENTS

LEGEND:

- BAR IS ONE INCH ON OFFICIAL DRAWINGS
- IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY

LEGEND:

- DENOTES MAINTAIN 18" VERTICAL SEPARATION PER WIDNR'S REQUIREMENTS



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30349-2998



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McKEE ROAD & FITCHRONA ROAD
FITCHBURG, WI 53719

FSU# 05918

REVISION SCHEDULE	DESCRIPTION
NO. DATE	

PRELIMINARY

ENGINEER'S PROJECT #	2402494
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CHECKED BY:	JFV
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SHEET	PLUMBING SITE PLAN
SHEET NUMBER	PS-100

ST-# STORM TAGS

ST-1	EXIST. STM SWR MH RIM = 1061.75 (ASSUMED) INV = 1052.37 W/NE INV = 1052.37 S (INVERTS PER LL PLANS. TO BE FIELD VERIFIED. CONTRACTOR TO NOTIFY ENGINEER WITH ANY DISCREPANCIES FROM PLAN.)	ST-20	12 LIN FT SS PVC CANOPY DRAIN, 6" SDR 26 @ 1.00%
ST-2	EXIST. 45 LIN FT SS RCP, 18" (PIPE SIZE ASSUMED) @ 1.00% (ASSUMED) STUB INV = 1052.82 (ASSUMED) (STUB INVERT TO BE FIELD VERIFIED PRIOR TO ORDERING STRUCTURES. CONTRACTOR TO NOTIFY ENGINEER WITH ANY DISCREPANCIES FROM PLAN.)	ST-21	12 LIN FT SS PVC CANOPY DRAIN, 6" SDR 26 @ 1.00%
ST-3	STM SWR CB 6' DIA., R-3235 TY A GRATE T/C = 1062.66 INV = 1052.82 N 18" RCP (TO BE VERIFIED) INV = 1058.25 S 15" RCP INV = 1056.80 SE 15" RCP	ST-22	26 LIN FT SS PVC ROOF DRAIN, 8" SDR 26 @ 1.00%
ST-4	49 LIN FT SS RCP, 15" @ 1.02%	ST-23	29 LIN FT SS PVC ROOF DRAIN, 8" SDR 26 @ 1.00%
ST-5	STM SWR CB 3' DIA., R-3235 TY A GRATE T/C = 1063.31 INV = 1058.75 N 15" RCP INV = 1058.75 W 6" PVC INV = 1058.75 SW 12" RCP	ST-24	CLEANOUT (SEE DETAIL) RIM = 1066.85 INV = 1062.05
ST-6	164 LIN FT SS RCP, 12" @ 0.95%	ST-25	7 LIN FT SS PVC ROOF DRAIN, 8" SDR 26 @ 1.00%
ST-7	STM SWR CB 4' DIA., R-3235 TY A GRATE T/C = 1065.86 INV = 1060.30 N/S 12" RCP	ST-26	36 LIN FT SS PVC ROOF DRAIN, 8" SDR 26 @ 1.00%
ST-8	92 LIN FT SS RCP, 12" @ 0.54%	ST-27	CLEANOUT (SEE DETAIL) RIM = 1066.80 INV = 1062.12
ST-9	STM SWR CB 4' DIA., R-3235 TY A GRATE T/C = 1065.96 INV = 1060.80 N/SE 12" RCP	ST-28	7 LIN FT SS PVC ROOF DRAIN, 8" SDR 26 @ 1.00%
ST-10	97 LIN FT SS RCP, 12" @ 0.41%	ST-29	7 LIN FT SS PVC ROOF DRAIN, 8" SDR 26 @ 1.00%
ST-11	STM SWR CB 4' DIA., R-3235 TY A GRATE T/C = 1066.16 INV = 1061.20 NW/E 12" RCP INV = 1061.50 N 8" PVC	ST-30	48 LIN FT SS PVC, 6" SDR 26 @ 1.00%
ST-12	76 LIN FT SS RCP, 12" @ 0.39%	ST-31	CLEANOUT (SEE DETAIL) RIM = 1065.05 INV = 1061.38
ST-13	STM SWR CB 4' DIA., R-3235 TY A GRATE T/C = 1066.26 INV = 1061.50 W 12" RCP INV = 1061.60 NE 6" PVC	ST-32	20 LIN FT SS PVC, 6" SDR 26 @ 1.00%
ST-14	90 LIN FT SS PVC, 6" SDR 26 @ 1.00%	ST-33	DUMPSTER PAD 8" FLOOR DRAIN, R-4937B RIM = 1065.30 INV = 1061.60 PROVIDE 6" (90 DEG) ELBOW AND 6" x 4" REDUCER AND 3.0 LF 4" DIP RISER
ST-15	CLEANOUT (SEE DETAIL) RIM = 1066.60 INV = 1062.50	ST-34	48 LIN FT SS PVC, 6" SDR 26 @ 1.00%
ST-16	7 LIN FT SS PVC CANOPY DRAIN, 6" SDR 26 @ 1.00%	ST-35	DUMPSTER PAD 8" FLOOR DRAIN, R-4937B RIM = 1065.25 INV = 1061.70 PROVIDE 6" (90 DEG) ELBOW AND 6" x 4" REDUCER AND 3.0 LF 4" DIP RISER
ST-17	7 LIN FT SS PVC CANOPY DRAIN, 6" SDR 26 @ 1.00%		
ST-18	83 LIN FT SS RCP, 15" @ 0.48%		
ST-19	STM SWR CB 3' DIA., R-3235 TY A GRATE T/C = 1061.41 INV = 1057.20 NW 15" RCP		

NOTE:
* ALL STORM STRUCTURES WITHIN PAVED
AREAS REQUIRE WEEP HOLES. SEE
DETAIL 10 ON SHEET C-403 FOR
WEEP HOLE DETAILS.

S-# SANITARY SEWER TAGS

S-1	EXIST. SANITARY SEWER MANHOLE CONTRACTOR TO FIELD VERIFY INVERT AND NOTIFY ENGINEER W/ ANY DISCREPANCIES FROM PLAN INV = 1054.50 (APPROXIMATE - PER LL ENGINEER)
S-1A	44 LIN FT SAN SERVICE STUB, 6" @ 1.00% (ASSUMED) INV @ END OF STUB = 1054.94 (ASSUMED) (CONTRACTOR TO VERIFY EXACT STUB LOCATION, DEPTH, & SIZE PRIOR TO ORDERING STRUCTURES. NOTIFY ENGINEER W/ ANY DISCREPANCIES FROM PLAN.)
S-2	91 LIN FT SAN SERVICE, 6" PVC SDR 26 @ 1.50%
S-3	CLEANOUT (SEE DETAIL) RIM = 1062.99 INV = 1056.30
S-4	135 LIN FT SAN SERVICE, 6" PVC SDR 26 @ 1.50% INV @ S-2 = 1056.27
S-5	SAN SEWER MH 4' DIA., R-1713 CL (SEE DETAIL) RIM = 1065.15 INV = 1058.30 NE 6" PVC INV = 1058.45 S 6" PVC
S-6	50 LIN FT SAN SERVICE, 6" PVC SDR 26 @ 1.00%
S-7	GREASE TRAP (2,000 GAL.) SEE BUILDING PLUMBING PLAN FOR DETAILS RIM(S) = 1065.55 N, 1065.55 S INV = 1059.12 (INLET) INV = 1058.95 (OUTLET)
S-8	6 LIN FT SAN SERVICE, 4" PVC SDR 35 @ 2.00%
S-9	CLEANOUT (SEE DETAIL) RIM = 1065.60 INV = 1059.24
S-10	16 LIN FT SAN SERVICE, 4" PVC SDR 35 @ 2.00% INV @ S-8 = 1059.18 INV @ BLDG = 1059.50 (VERIFY WITH ARCHITECT/PLANS)
S-11	TWO-WAY CLEAN OUT (SEE DETAIL) RIM = 1065.95 INV = +/- 1059.42
S-12	16 LIN FT SAN SERVICE, 4" PVC SDR 35 @ 3.88% INV @ S-6 = 1058.88 INV @ BLDG = 1059.50 (VERIFY WITH ARCHITECT/PLANS)
S-13	TWO-WAY CLEAN OUT (SEE DETAIL) RIM = 1065.95 INV = +/- 1059.38
S-14	TWO-WAY CLEAN OUT (SEE DETAIL) RIM = 1065.44 INV = +/- 1058.92

CONFLICT TAGS

* OMITTED FOR THIS SUBMITTAL.



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FITCHBURG, WI 53719

FSU# 05918

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

PRELIMINARY

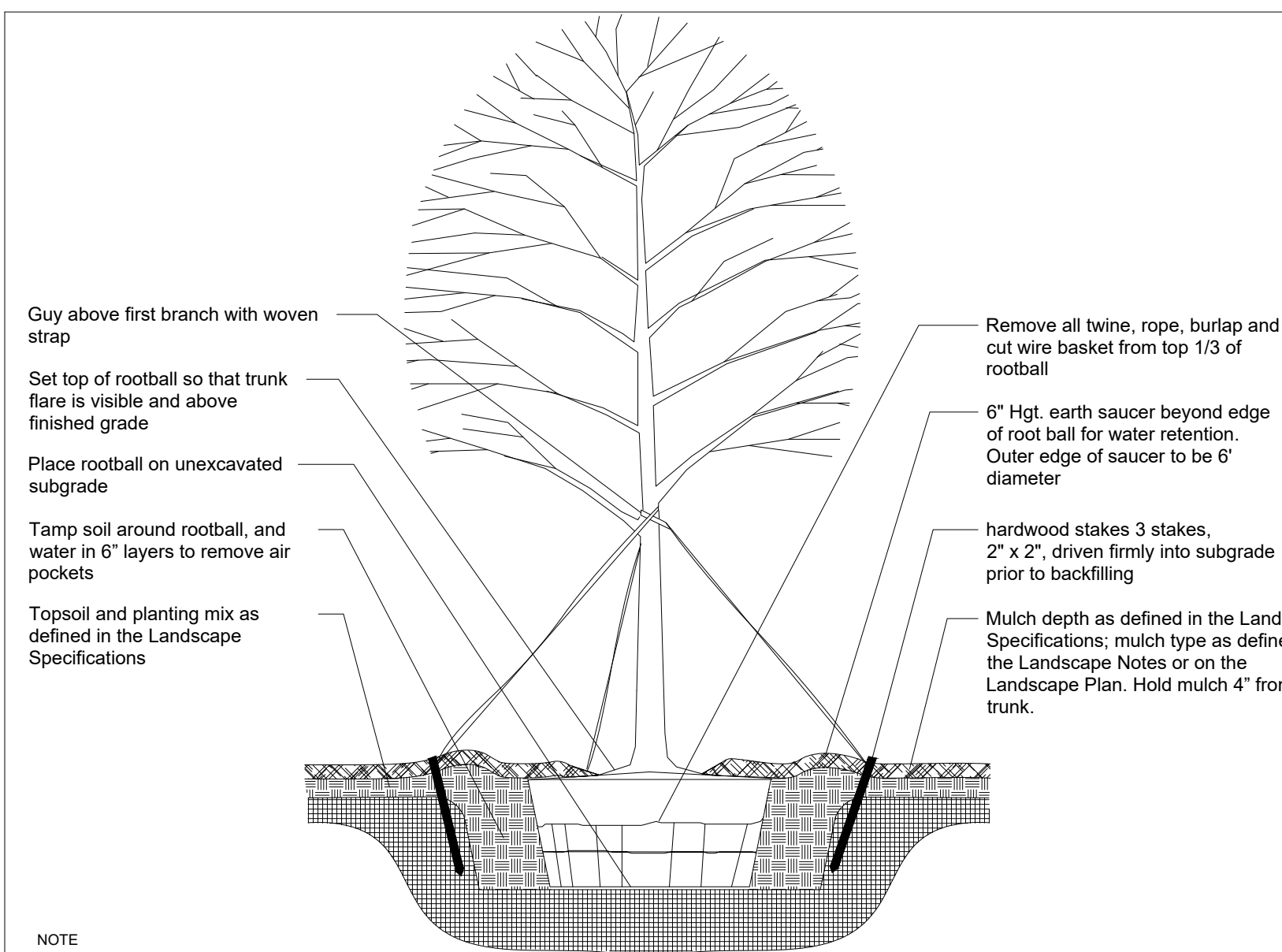
ENGINEER'S PROJECT #	2402494
PRINTED FOR	PRELIMINARY
DATE	10/07/2024
DRAWN BY:	ERN
CHECKED BY:	JFV

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SHEET
UTILITY TAGS

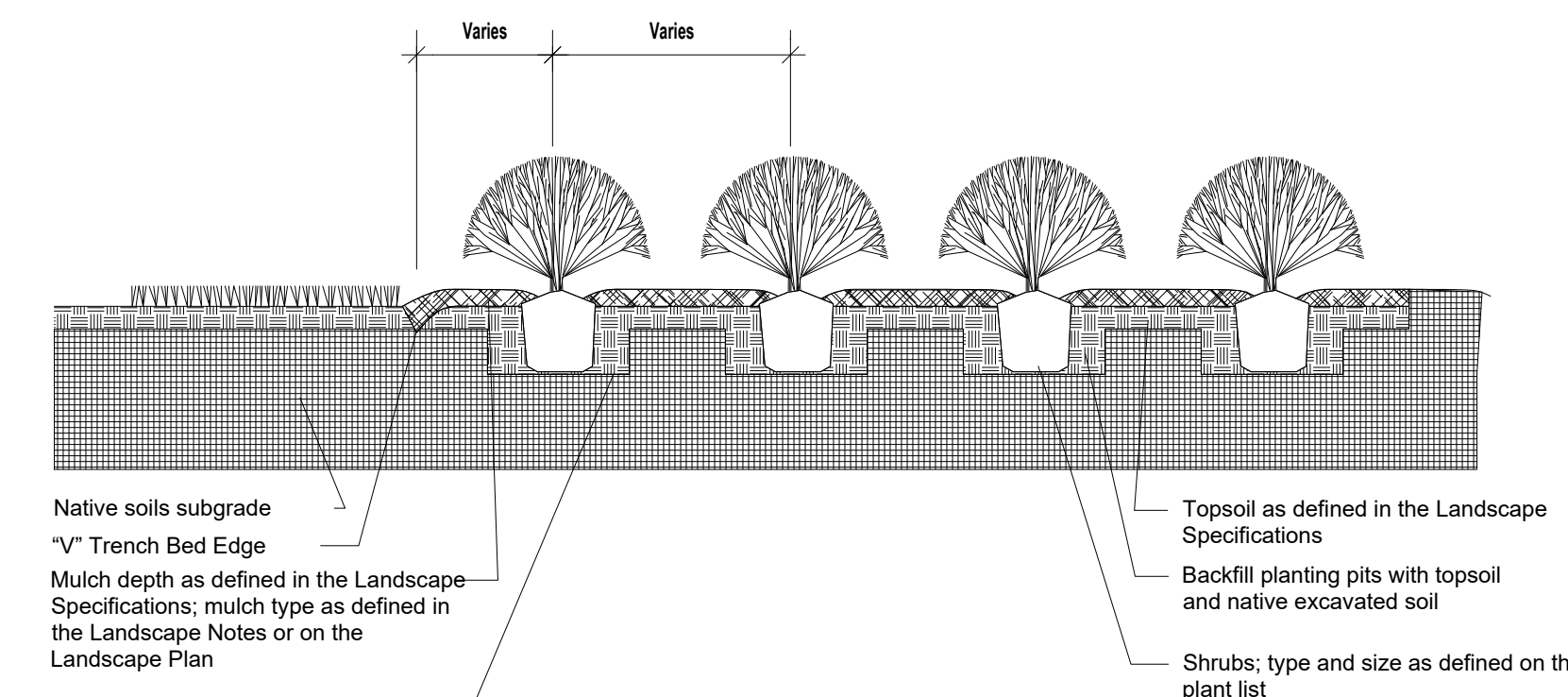
SHEET NUMBER
PS-101

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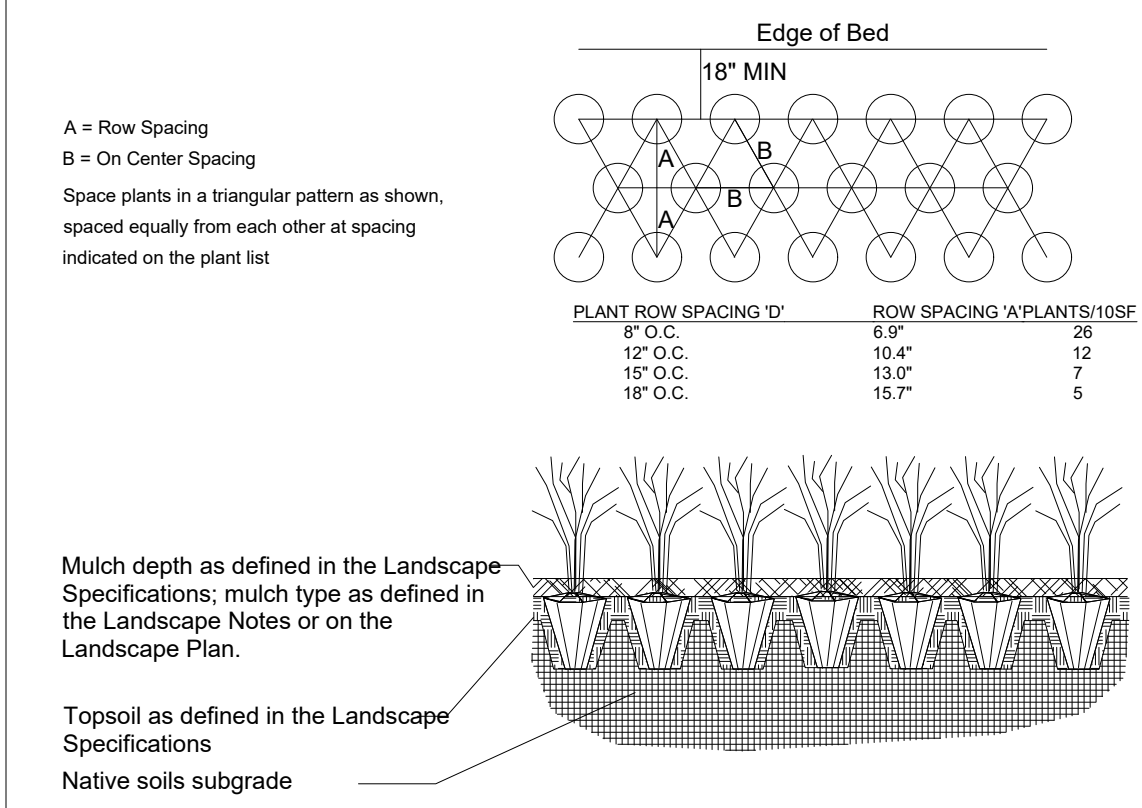


- NOTE
- Hole to be twice the width of the rootball.
 - Do not heavily prune tree at planting. Prune only crossover limbs, broken or dead branches; Do not remove the terminal buds of branches that extend to the edge of the crown.
 - Each tree must be planted such that the trunk flare is visible at the top of the rootball. Trees where the trunk flare is not visible shall be rejected. Do not cover the top of the rootball with soil. Mulch to be held back 4\"/>

1 TREE PLANTING AND STAKING DETAIL
SCALE: NTS

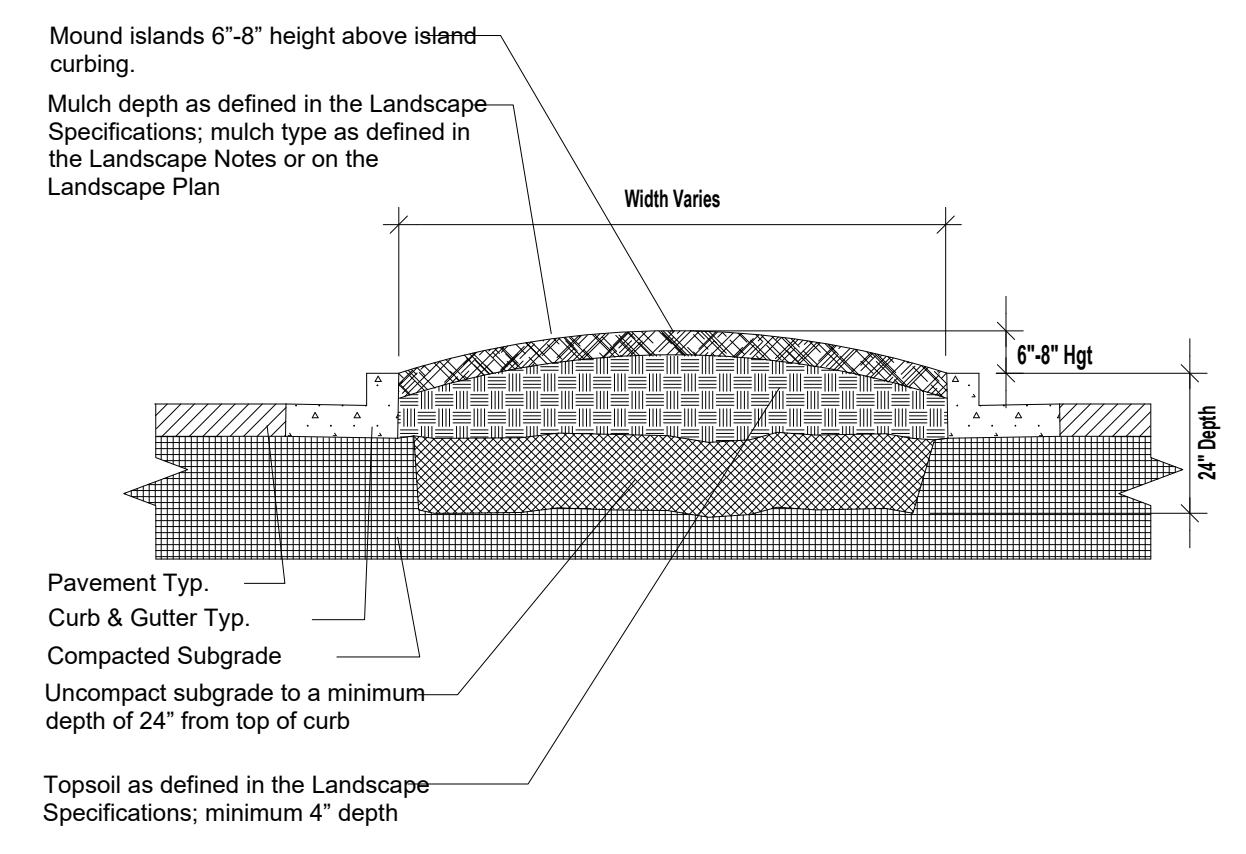


2 SHRUB BED PLANTING DETAIL
SCALE: NTS



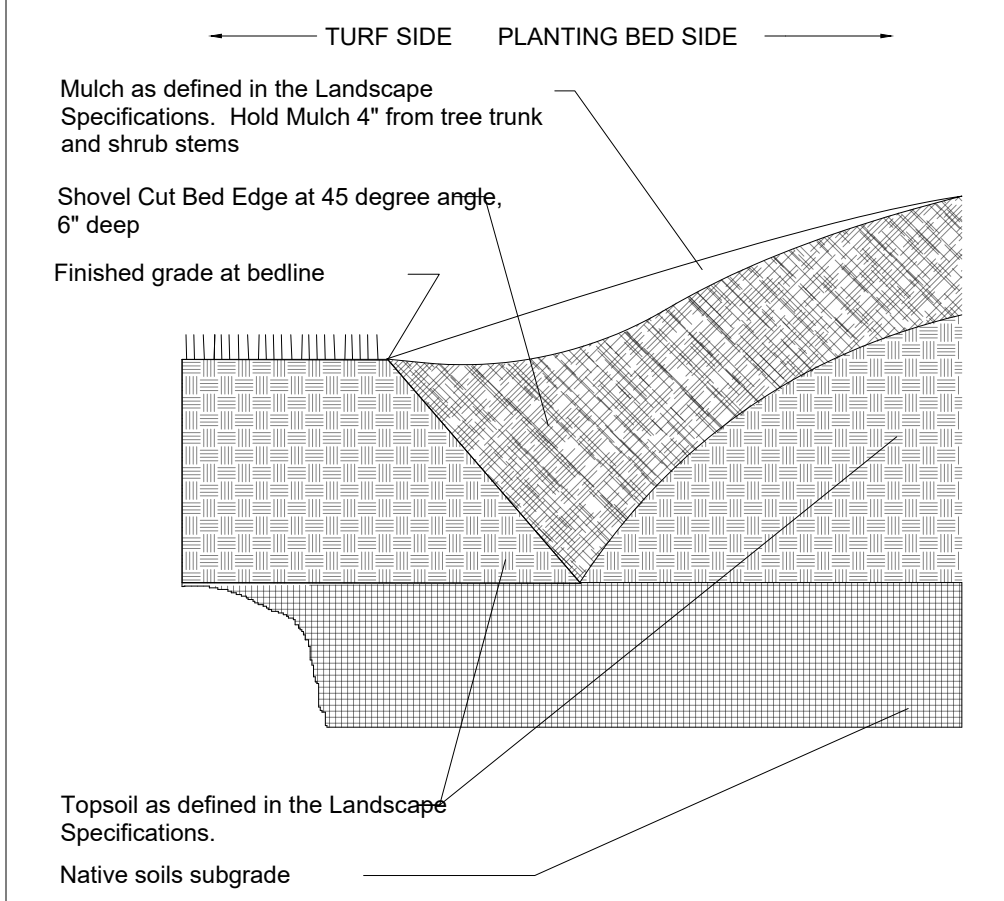
- NOTE
- Space groundcover plants in accordance with indicated spacing listed on the plant list, or as shown on the landscape plan.
 - Adjust spacing as necessary to evenly fill planting bed with indicated quantity of plants.
 - Plant to within 24\"/>

3 GROUND COVER PLANTING DETAIL
SCALE: NTS



- NOTE
- Clean construction debris from within landscape island areas (ie. concrete, rocks, rubble, building materials, ect), prior to installing topsoil and plant material.
 - Fracture/loosen existing subgrade to a minimum 24\"/>

4 PARKING ISLAND BERMING DETAIL
SCALE: NTS



5 V TRENCH BED EDGING
SCALE: NTS

GENERAL NOTES

- BASE MAP INFORMATION IS ACCURATE AS OF THE DATE PRINTED ON THIS PACKAGE.
- THE LANDSCAPE PLANS CONTAINED HEREIN ILLUSTRATE APPROXIMATE LOCATIONS OF ALL SITE CONDITIONS. REFER TO SURVEY, ARCHITECTURAL, CIVIL ENGINEERING, STRUCTURAL, ELECTRICAL, IRRIGATION AND ALL OTHER DRAWINGS, IF AVAILABLE. FOR ADDITIONAL DETAILED INFORMATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING AWARE OF AND FIELD VERIFYING ALL RELATED EXISTING AND PROPOSED CONDITIONS, UTILITIES, PIPES AND STRUCTURES, ETC. PRIOR TO BIDDING AND CONSTRUCTION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR CONTACTING JULIE, THE COUNTY PUBLIC WORKS DEPARTMENT, THE MUNICIPALITY AND ANY OTHER PUBLIC OR PRIVATE AGENCIES NECESSARY FOR UTILITY LOCATION PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF APPARENT CONFLICTS WITH CONSTRUCTION AND UTILITIES SO THAT ADJUSTMENTS CAN BE PLANNED PRIOR TO INSTALLATION. IF FIELD ADJUSTMENTS ARE NECESSARY DUE TO EXISTING UTILITY LOCATIONS THEY MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY AND ALL COSTS OR OTHER LIABILITIES INCURRED DUE TO DAMAGE OF SAID UTILITIES/STRUCTURES/ETC.
- THE CONTRACTOR SHALL COMPLY WITH ALL CODES APPLICABLE TO THIS WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH SUBCONTRACTORS AND OTHER CONTRACTORS OF RELATED TRADES, AS REQUIRED, TO ACCOMPLISH THE PLANTING AND RELATED OPERATIONS.
- THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL PLANT MATERIAL WITH THE INSTALLATION OF OTHER IMPROVEMENTS SUCH AS HARDSCAPE ELEMENTS AND RELATED STRUCTURES. ANY DAMAGE TO EXISTING IMPROVEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE TO RESTORE ALL AREAS OF THE SITE, OR ADJACENT AREAS, WHERE DISTURBED BY OPERATIONS OF OR RELATED TO THE CONTRACTOR'S WORK.
- ALL SURFACE DRAINAGE SHALL BE DIVERTED AWAY FROM STRUCTURES AND NOTED SITE FEATURES IN ALL AREAS AT A MINIMUM OF 2% SLOPE OR AS SHOWN ON THE CIVIL ENGINEERING PLANS. ALL AREAS SHALL POSITIVELY DRAIN AND ALL ISLANDS SHALL BE CROWNED 1\"/>

LANDSCAPE NOTES

- LANDSCAPE CONTRACTOR TO READ AND UNDERSTAND THE LANDSCAPE SPECIFICATIONS (SHEET L-103) PRIOR TO FINALIZING BIDS. THE LANDSCAPE SPECIFICATIONS SHALL BE ADHERED TO THROUGHOUT THE CONSTRUCTION PROCESS.
- CONTRACTOR RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.
- CONTRACTOR RESPONSIBLE FOR PROTECTING EXISTING TREES FROM DAMAGE DURING CONSTRUCTION.
- ALL PLANTING AREAS SHALL BE CLEANED OF CONSTRUCTION DEBRIS (IE. CONCRETE, ROCK, RUBBLE, BUILDING MATERIALS, ETC.) PRIOR TO ADDING AND SPREADING OF THE TOPSOIL.
- ALL SHRUBS BEDS (EXISTING AND NEW) TO BE MULCHED WITH A 3 INCH MINIMUM LAYER OF DOUBLE SHREDDED HARDWOOD MULCH.
- ALL ANNUAL AND PERENNIAL BEDS TO BE TILLED TO A MINIMUM DEPTH OF 12 INCHES AND AMENDED WITH 4 INCHES OF ORGANIC MATERIAL. MULCH PLANTED ANNUAL AND PERENNIAL BEDS WITH 2 INCH DEPTH OF MINI NUGGETS.
- PLANTING HOLES TO BE DUG A MINIMUM OF TWICE THE WIDTH OF THE SIZE OF THE ROOT BALL OF BOTH SHRUB AND TREE. BACK TO BE A MIX OF 4 PARTS TOPSOIL AND 1 PART ORGANIC SOIL CONDITIONER (IE. NATURE'S HELPER OR PRO MIX). BACKFILL AND TAMP BOTTOM OF HOLE PRIOR TO PLANTING SO TOP OF ROOT BALL DOES NOT SETTLE BELOW SURROUNDING GRADE.
- EXISTING GRASS IN PROPOSED PLANTING AREAS TO BE KILLED AND REMOVED AND AREA TO BE HAND RAKED TO REMOVE ALL ROCKS AND DEBRIS LARGER THAN 1 INCH IN DIAMETER PRIOR TO PLANTING SHRUBS.
- ANY EXISTING GRASS DISTURBED DURING CONSTRUCTION TO BE FULLY REMOVED, REGRADED AND REPLACED. ALL TIRE MARKS AND INDENTIONS TO BE REPAIRED.
- SOIL TO BE TESTED TO DETERMINE FERTILIZER AND LIME REQUIREMENTS AND DISTRIBUTED PRIOR TO LAYING SOD.
- SOD TO BE DELIVERED FRESH (CUT LESS THAN 24 HOURS PRIOR TO ARRIVING ON SITE), LAID IMMEDIATELY, ROLLED, AND WATERED THOROUGHLY IMMEDIATELY AFTER PLANTING. EDGE OF SOD IS TO BE V TRENCHED.
- ALL CHANGES TO DESIGN OR PLANT SUBSTITUTIONS ARE TO BE AUTHORIZED BY THE LANDSCAPE ARCHITECT.
- ALL LANDSCAPING SHALL BE INSTALLED IN CONFORMANCE WITH ANSI Z60.1 THE 'AMERICAN STANDARD FOR NURSERY STOCK' AND THE ACCEPTED STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN.
- THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTS INSTALLED FOR ONE FULL YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. ALL PLANTS SHALL BE ALIVE AND AT A VIGOROUS RATE OF GROWTH AT THE END OF THE GUARANTEE PERIOD. THE LANDSCAPE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ACTS OF GOD OR VANDALISM.
- ANY PLANT THAT IS DETERMINED DEAD, IN AN UNHEALTHY OR UNSIGHTLY CONDITION, LOST ITS SHAPE DUE TO DEAD BRANCHES OR OTHER SYMPTOMS OF POOR, NON-VIGOROUS GROWTH SHALL BE REPLACED BY THE LANDSCAPE CONTRACTOR.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR ADDING A MIN OF 4\"/>



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FSU# 05918

REVISION SCHEDULE NO.	DATE	DESCRIPTION

PRELIMINARY

ENGINEER'S PROJECT #	2402494
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SHEET **LANDSCAPE NOTES & DETAILS**
SHEET NUMBER **L-101**

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LANDSCAPE SPECIFICATIONS

PART 1 - GENERAL

DESCRIPTION

PROVIDE TREES, SHRUBS, GROUND COVERS, SOIL, AND ANNUALS/PERENNIALS AS SHOWN AND SPECIFIED ON THE LANDSCAPE PLAN. THE WORK INCLUDES:

1. SOIL PREPARATION.
2. TREES, SHRUBS, GROUND COVERS, AND ANNUALS/PERENNIALS.
3. PLANTING MIXES.
4. TOP SOIL, MULCH AND PLANTING ACCESSORIES.
5. MAINTENANCE.
6. DECORATIVE STONE.

RELATED WORK:

1. IRRIGATION SYSTEM: SEE IRRIGATION SPECIFICATIONS (NOT INCLUDED IN PACKAGE).

QUALITY ASSURANCE

PLANT NAMES INDICATED, COMPLY WITH "STANDARDIZED PLANT NAMES" AS ADOPTED BY THE LATEST EDITION OF THE AMERICAN JOINT COMMITTEE OF HORTICULTURAL NOMENCLATURE. NAMES OF VARIETIES NOT LISTED CONFORM GENERALLY WITH NAMES ACCEPTED BY THE NURSERY TRADE. PROVIDE STOCK TRUE TO BOTANICAL NAME AND LEGIBLY TAGGED.

COMPLY WITH SIZING AND GRADING STANDARDS OF THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK." A PLANT SHALL BE DIMENSIONED AS IT STANDS IN ITS NATURAL POSITION.

ALL PLANTS SHALL BE NURSERY GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR A MINIMUM OF 2 YEARS.

NURSERY STOCK FURNISHED SHALL BE AT LEAST THE MINIMUM SIZE INDICATED. LARGER STOCK IS ACCEPTABLE, AT NO ADDITIONAL COST, AND PROVIDING THAT THE LARGER PLANTS WILL NOT BE CUT BACK TO SIZE INDICATED. PROTECT PLANTS INDICATED BY TWO MEASUREMENTS SO THAT ONLY A MAXIMUM OF 25% ARE OF THE MINIMUM SIZE INDICATED AND 75% ARE OF THE MAXIMUM SIZE INDICATED.

BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL HAVE INVESTIGATED THE SOURCES OF SUPPLY AND BE SATISFIED THAT THEY CAN SUPPLY THE LISTED PLANTS IN THE SIZE, VARIETY AND QUALITY AS SPECIFIED. FAILURE TO TAKE THIS PRECAUTION WILL NOT RELIEVE THE CONTRACTOR FROM THEIR RESPONSIBILITY FOR FURNISHING AND INSTALLING ALL PLANT MATERIALS IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS WITHOUT ADDITIONAL COST TO THE OWNER. THE LANDSCAPE ARCHITECT SHALL APPROVE ANY SUBSTITUTES OF PLANT MATERIAL, OR CHANGES IN PLANT MATERIAL, SIZE, PRIOR TO THE LANDSCAPE CONTRACTOR SUBMITTING A BID.

DELIVER, STORAGE AND HANDLING

TAKE ALL PRECAUTIONS CUSTOMARY IN GOOD TRADE PRACTICE IN PREPARING PLANTS FOR MOVING. WORKMANSHIP THAT FAILS TO MEET THE HIGHEST STANDARDS WILL BE REJECTED. SPRAY DECIDUOUS PLANTS IN FOLIAGE WITH AN APPLIED "ANTI-DESICCANT" IMMEDIATELY AFTER DIGGING TO PREVENT DEHYDRATION. DIG, PACK, TRANSPORT, AND HANDLE PLANTS WITH CARE TO ENSURE PROTECTION AGAINST INJURY. INSPECTION AND REPAIRS REQUIRED BY LAW SHALL ACCOMPANY EACH SHIPMENT INVOICE OR ORDER TO STOCK. PROTECT ALL PLANTS FROM DRYING OUT. IF PLANTS CANNOT BE PLANTED IMMEDIATELY UPON DELIVERY, PROPERLY PROTECT THEM WITH SOIL, WET PEAT MOSS, OR IN A MANNER ACCEPTABLE TO THE LANDSCAPE ARCHITECT. WATER HEADED-IN PLANTINGS DAILY. NO PLANT SHALL BE BOUND WITH ROPE OR WIRE IN A MANNER THAT COULD DAMAGE OR BREAK THE BRANCHES. COVER PLANTS TRANSPORTED ON OPEN VEHICLES WITH A PROTECTIVE COVERING TO PREVENT WIND BURN.

PROJECT CONDITIONS

PROTECT EXISTING UTILITIES, PAVING, AND OTHER FACILITIES FROM DAMAGE CAUSED BY LANDSCAPE OPERATIONS.

A COMPLETE LIST OF PLANTS, INCLUDING A SCHEDULE OF SIZES, QUANTITIES, AND OTHER REQUIREMENTS ARE SHOWN ON THE DRAWINGS. IN THE EVENT THAT QUANTITY DISCREPANCIES OR MATERIAL OMISSIONS OCCUR IN THE PLANT MATERIALS LIST, THE PLANTING PLANS SHALL GOVERN.

THE IRRIGATION SYSTEM WILL BE INSTALLED PRIOR TO PLANTING. LOCATE, PROTECT AND MAINTAIN THE IRRIGATION SYSTEM DURING PLANTING OPERATIONS. REPAIR IRRIGATION SYSTEM COMPONENTS DAMAGED DURING PLANTING OPERATIONS, AT THE CONTRACTOR'S EXPENSE. REFER TO THE IRRIGATION SPECIFICATIONS, IRRIGATION PLAN AND IRRIGATION DETAILS.

DO NOT BEGIN LANDSCAPE ACCESSORY WORK BEFORE COMPLETION OF FINAL GRADING OR SURFACING.

WARRANTY

WARRANT PLANT MATERIAL TO REMAIN ALIVE, BE HEALTHY AND IN A VIGOROUS CONDITION FOR A PERIOD OF 1 YEAR AFTER COMPLETION AND FINAL ACCEPTANCE OF ENTIRE PROJECT.

REPLACE, IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, ALL PLANTS THAT ARE DEAD OR ARE IN AN UNHEALTHY, OR UNSIGHTLY CONDITION, AND HAVE LOST THEIR NATURAL SHAPE, OR DEAD BRANCHES, OR TO THE CONTRACTOR'S NEGLIGENCE. THE COST OF SUCH REPLACEMENT(S) IS AT THE CONTRACTOR'S EXPENSE. WARRANT ALL REPLACEMENT PLANTS FOR 1 YEAR AFTER INSTALLATION.

WARRANTY SHALL NOT INCLUDE DAMAGE, LOSS OF TREES, PLANTS, OR GROUND COVERS CAUSED BY FIRES, FLOODS, FREEZING RAINS, LIGHTNING STORMS, WINDS OVER 15 MILES PER HOUR, WINTER KILL CAUSED BY EXTREME COLD, SEVERE WINTER CONDITIONS NOT TYPICAL OF PLANTING AREA, AND/OR ACTS OF VANDALISM OR NEGLIGENCE ON A PART OF THE OWNER.

REMOVE AND IMMEDIATELY REPLACE ALL PLANTS, FOUND TO BE UNSATISFACTORY DURING THE INITIAL PLANTING INSTALLATION. MAINTAIN AND PROTECT PLANT MATERIAL, LAWNS, AND IRRIGATION UNTIL FINAL ACCEPTANCE IS MADE.

ACCEPTANCE

INSPECTION OF PLANTED AREAS WILL BE MADE BY THE OWNER'S REPRESENTATIVE.

1. PLANTED AREAS WILL BE ACCEPTED PROVIDED ALL REQUIREMENTS, INCLUDING MAINTENANCE, HAVE BEEN COMPLIED WITH AND PLANT MATERIALS ARE ALIVE AND IN A HEALTHY, VIGOROUS CONDITION.

UPON ACCEPTANCE, THE CONTRACTOR SHALL COMMENCE THE SPECIFIED PLANT MAINTENANCE.

CODES, PERMITS AND FEES

OBTAIN ANY NECESSARY PERMITS FOR THIS SECTION OF WORK AND PAY ANY FEES REQUIRED FOR PERMITS.

THE ENTIRE INSTALLATION SHALL FULLY COMPLY WITH ALL LOCAL AND STATE LAWS AND ORDINANCES, AND WITH ALL ESTABLISHED CODES APPLICABLE THERETO, ALSO AS DEPICTED ON THE LANDSCAPE AND IRRIGATION CONSTRUCTION SET.

PART 2 - PRODUCTS

MATERIALS

PLANTS: PROVIDE TYPICAL OF THEIR SPECIES OR VARIETY, WITH NORMAL, DENSELY DEVELOPED BRANCHES AND VIGOROUS, FIBROUS ROOT SYSTEMS. PROVIDE ONLY SOUND, HEALTHY, VIGOROUS PLANTS FREE FROM DEFECTS, DISFIGURING KNOTS, SUN SCALD INJURIES, FROST CRAKS, ABRASIONS OF THE BARK, PLANT DISEASES, INSECT EGGS, BORERS, AND ALL FORMS OF INFESTATION. ALL PLANTS SHALL HAVE A FULLY DEVELOPED FORM WITHOUT VOIDS AND OPEN SPACES. PLANTS HELD ON STORAGE WILL BE REJECTED IF THEY SHOW SIGNS OF GROWTH DURING THE STORAGE PERIOD.

1. BALLED AND PLANTS WRAPPED WITH BURLAP. TO HAVE FIRM, NATURAL BALLS OF EARTH OF SUFFICIENT DIAMETER AND DEPTH TO ENCOMPASS THE FIBROUS AND FEEDING ROOT SYSTEM NECESSARY FOR FULL RECOVERY OF THE PLANT. PROVIDE BALL SIZES COMPLYING WITH THE LATEST EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK," CRACKED OR MUSHROOMED BALLS, OR SIGNS OF CIRCULING ROOTS ARE NOT ACCEPTABLE.
2. CONTAINER- GROWN STOCK: GROWN IN A CONTAINER OF SUFFICIENT LENGTH OF TIME FOR THE ROOT SYSTEM TO HAVE DEVELOPED TO HOLD ITS SOIL TOGETHER, FIRM AND WHOLE.
 - 2.1. NO PLANTS SHALL BE LOOSE IN THE CONTAINER.
 - 2.2. CONTAINER STOCK SHALL NOT BE POT BOUND.
 3. PLANTS PLANTED IN ROWS SHALL BE MATCHED IN FORM.
 4. PLANTS LARGER THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED WHEN ACCEPTABLE TO THE LANDSCAPE ARCHITECT.
 - 4.1. IF THE USE OF LARGER PLANTS IS ACCEPTABLE, INCREASE THE SPREAD OF ROOTS OR ROOT BALL IN PROPORTION TO THE SIZE OF THE PLANT.
 5. THE HEIGHT OF THE TREES, MEASURED FROM THE CROWN OF THE ROOTS TO THE TOP OF THE TOP BRANCH, SHALL NOT BE LESS THAN THE MINIMUM SIZE DESIGNATED IN THE PLANT LIST.
 6. NO PRUNING WOUNDS SHALL BE PRESENT WITH A DIAMETER OF MORE THAN 1" AND SUCH WOUNDS MUST SHOW VIGOROUS BARK ON ALL EDGES.
 7. EVERGREEN TREES SHALL BE BRANCHED TO THE GROUND OR AS SPECIFIED IN PLANT LIST.
 8. SHRUBS AND SMALL PLANTS SHALL MEET THE REQUIREMENTS FOR SPREAD AND HEIGHT INDICATED IN THE PLANT LIST.
 9. THE MEASUREMENTS FOR HEIGHT SHALL BE TAKEN FROM THE GROUND LEVEL TO THE HEIGHT OF THE TOP OF THE PLANT AND NOT THE LONGEST BRANCH.
 - 8.2. SINGLE STEMMED OR THIN PLANTS WILL NOT BE ACCEPTED.
 - 8.3. SIDE BRANCHES SHALL BE GENEROUS, WELL-TWIGGED, AND THE PLANT AS A WHOLE WELL-BUSHED TO THE GROUND.
 - 8.4. PLANTS SHALL BE IN A MOIST, VIGOROUS CONDITION, FREE FROM DEAD WOOD, BRUISES, OR OTHER ROOT OR BRANCH INJURIES.

ACCESSORIES

TOPSOIL: SHALL BE FERTILE, FRABLE, NATURAL, TOPSOIL OF LOAMY CHARACTER, WITHOUT ADMIXTURE OF SUBSOIL MATERIAL, OBTAINED FROM A WELL-DRAINED AERABLE SITE, REASONABLY FREE FROM CLAY, LUMPS, COARSE SANDS, STONES, ROOTS, STICKS, AND OTHER FOREIGN MATERIALS, WITH ACIDITY RANGE OF BETWEEN PH 6.0 AND 6.8.

NOTE: ALL PLANTING AREAS SHALL BE CLEANED OF CONSTRUCTION DEBRIS (IE. CONCRETE, RUBBLE, STONES, BUILDING MATERIAL, ETC.) PRIOR TO ADDING AND SPREADING OF THE TOP SOIL.

1. SOIL AREAS: SPREAD A MINIMUM 4" LAYER OF TOP SOIL AND RAKE SMOOTH.
2. PLANTING BED AREAS: SPREAD A MINIMUM 4" LAYER OF TOP SOIL AND RAKE SMOOTH.
3. LANDSCAPE ISLANDS/MEDIAN: FRACTURED/CROSSLIN EXISTING SUBGRADE TO A MINIMUM 24" DEPTH. REMOVE AND REPLACE ANY SUBGRADE UNSUITABLE FOR PLANTING. ONCE SUBGRADE IS CLEAN OF DEBRIS AND LOOSENEED, ADD TOPSOIL TO A MINIMUM BERM 6"-8" HEIGHT ABOVE ISLAND CURBING.
4. ANNUAL/PERENNIAL BED AREAS: ADD A MINIMUM OF 4" ORGANIC MATTER AND TILL TO A MINIMUM 12" DEPTH.

MULCH: TYPE SELECTED DEPENDENT ON REGION AND AVAILABILITY; SEE LANDSCAPE PLANS FOR TYPE OF MULCH TO BE USED. HOLD MULCH 4" FROM TREE TRUNKS AND SHRUB STEMS.

1. HARDWOOD: 6 MONTH OLD WELL ROTTED DOUBLE SHREDDED NATIVE HARDWOOD BARK MULCH NOT LARGER THAN 4" IN LENGTH AND 1/2" IN WIDTH. FREE OF WOOD CHIPS AND SAWDUST. INSTALL MINIMUM DEPTH OF 3".
2. PINE STRAW: PINE STRAW TO BE FRESH HARVEST, FREE OF DEBRIS, BRIGHT IN COLOR. BALES TO BE WIRED AND TIGHTLY BOUND. NEEDLES TO BE DRY. INSTALL MINIMUM DEPTH OF 3".
3. RIVER ROCK: (COLOR) LIGHT GRAY TO BUFF TO DARK BROWN, WASHED RIVER ROCK, 1" - 3" IN SIZE. INSTALL IN SHRUB BEDS TO AN EVEN DEPTH OF 3". WEED CONTROL BARRIER TO BE INSTALLED UNDER ALL ROCK MULCH AREAS. USE CAUTION DURING INSTALLATION NOT TO DAMAGE PLANT MATERIAL.
4. MINI NUGGETS: INSTALL TO A MINIMUM DEPTH OF 2"-3" AT ALL LOCATIONS OF ANNUAL AND PERENNIAL BEDS. LIFT THE STEMS AND LEAVES OF THE ANNUALS AND CAREFULLY SPREAD THE MULCH TO AVOID INJURING THE PLANTS. GENTLY BRUSH THE MULCH OFF THE PLANTS.

GUYNING/STAKING:

1. ARBORTITE (GREEN OR WHITE) STAKING AND GUYING MATERIAL TO BE FLAT, WOVEN, POLYPROPYLENE MATERIAL, 3/4" WIDE 90 LB. BREAK STRENGTH. ARBORTITE SHALL BE FASTENED TO STAKES IN A MANNER WHICH PERMITS TREE MOVEMENT AND SUPPORTS THE TREE.
2. REMOVE GUYING/STAKING AFTER ONE YEAR FROM PLANTING.

TREE WRAP: TREE WRAPS SHOULD BE USED ON YOUNG, NEWLY PLANTED THIN-BARKED TREES (CHERRY, CRABAPPLE, HONEY LOCUST, LINDEN, MAPLE, MOUNTAIN ASH, PLUM) THAT ARE MOST SUSCEPTIBLE TO SUN SCALD/VIBURNUM. STANDARD WATERPROOF TREE WRAP, MADE OF 2 LAYERS OF CREPE DRAFT PAPER WEIGHING NOT LESS THAN 30 LB. PER ROLL, CEMENTED TOGETHER WITH ASPHALT. WRAP THE TREE IN THE FALL AND LEAVE THE WRAP IN PLACE THROUGHOUT THE WINTER AND EARLY SPRING. TREE WRAPS ARE TEMPORARY AND NO LONGER NEEDED ONCE TREES DEVELOP CORKY BARK.

PART 3 - EXECUTION

INSPECTION

PRIOR TO BEGINNING WORK, THE LANDSCAPE CONTRACTOR SHALL INSPECT THE SUBGRADE, GENERAL SITE CONDITIONS, VERIFY ELEVATIONS, UTILITY LOCATIONS, IRRIGATION, APPROVE TOP SOIL PROVIDED BY THE GENERAL CONTRACTOR AND OBSERVE THE SITE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. NOTIFY THE GENERAL CONTRACTOR OF ANY UNSATISFACTORY CONDITIONS, AND WORK SHALL NOT PROCEED UNTIL SUCH CONDITIONS HAVE BEEN CORRECTED AND ARE ACCEPTABLE TO THE LANDSCAPE CONTRACTOR.

PREPARATION

PLANTING SHALL BE PERFORMED ONLY BY EXPERIENCED WORKMEN FAMILAR WITH PLANTING PROCEDURES UNDER THE SUPERVISION OF A QUALIFIED SUPERVISOR.

LOCATE PLANTS AS INDICATED ON THE PLANS OR AS APPROVED IN THE FIELD AFTER STAKING BY THE LANDSCAPE CONTRACTOR. IF OBSTRUCTIONS ARE ENCOUNTERED THAT ARE NOT SHOWN ON THE DRAWINGS, DO NOT PROCEED WITH PLANTING OPERATIONS UNTIL ALTERNATE PLANT LOCATIONS HAVE BEEN SELECTED AND APPROVED BY THE LANDSCAPE ARCHITECT. SPACING OF PLANT MATERIAL SHALL BE AS SHOWN ON THE LANDSCAPE PLAN.

EXCAVATE CIRCULAR PLANT PITS WITH VERTICAL SIDES, EXCEPT FOR PLANTS SPECIFICALLY INDICATED TO BE PLANTED IN BEDS. PROVIDE SHRUB PITS AT LEAST 12" GREATER THAN THE DIAMETER OF THE ROOT SYSTEM AND 24" GREATER FOR TREES. DEPTH OF PIT SHALL ACCOMMODATE THE ROOT SYSTEM. PROVIDE UNDISTURBED SUB GRADE TO HOLD ROOT BALL AT NURSERY GRADE AS SHOWN ON THE DRAWINGS.

INSTALLATION

SET PLANT MATERIAL IN THE PLANTING PIT TO PROPER GRADE AND ALIGNMENT. SET PLANTS UPRIGHT, PLUMB, AND FACED TO GIVE THE BEST APPEARANCE OR RELATIONSHIP TO EACH OTHER OR ADJACENT STRUCTURE. SET PLANT MATERIAL 1'-3" ABOVE THE FINISH GRADE. NO FILLING WILL BE PERMITTED AROUND TRUNKS OR STEMS. BACKFILL THE PIT WITH TOPSOIL, MIX AND EXCAVATED MATERIAL. DO NOT USE FROZEN OR MUDDY MIXTURES FOR BACKFILLING. FORM A RING OF SOIL AROUND THE EDGE OF EACH PLANTING PIT TO RETAIN WATER.

AFTER BALLED AND WRAPPED IN BURLAP PLANTS ARE SET, MIDDLE PLANTING SOIL MIXTURE AROUND BASES OF BALLS AND FILL ALL VOIDS.

1. REMOVE ALL BURLAP, ROPES, AND WIRES FROM THE TOP 1/3 OF THE ROOT BALL.

SPACE GROUND COVER PLANTS IN ACCORDANCE WITH INDICATED DIMENSIONS. ADJUST SPACING AS NECESSARY TO EVENLY FILL PLANTING BED WITH INDICATED QUANTITY OF PLANTS. PLANT TO WITHIN 24" OF THE TRUNKS OF TREES AND SHRUBS WITHIN PLANTING BED AND TO WITHIN 18" OF EDGE OF BED.

MULCHING:

1. MULCH TREE AND SHRUB PLANTING PITS AND SHRUB BEDS WITH REQUIRED MULCHING MATERIAL (SEE LANDSCAPE PLAN FOR MULCH TYPE); DEPTH OF MULCH AS NOTED ABOVE. HOLD MULCH BACK 4" AWAY FROM TREE TRUNKS AND SHRUB STEMS. THOROUGHLY WATER MULCHED AREAS. AFTER WATERING, RAKE MULCH TO PROVIDE A UNIFORM FINISHED SURFACE.

DECORATIVE STONE: (WHERE INDICATED ON LANDSCAPE PLAN)

1. INSTALL WEED CONTROL BARRIER OVER SUB-GRADE PRIOR TO INSTALLING STONE. LAP 6" ON ALL SIDES.
2. PLACE STONE WITHOUT DAMAGING WEED BARRIER.
3. ARRANGE STONES FOR BEST APPEARANCE AND TO COVER ALL WEED BARRIER FABRIC.

WRAPPING, GUYING, STAKING:

1. INSPECT TREES FOR INJURY TO TRUNKS, EVIDENCE OF INSECT INFESTATION, AND IMPROPER PRUNING BEFORE WRAPPING.
2. WRAPPING:
 - 2.1. WRAP TRUNKS OF ALL YOUNG NEWLY PLANTED TREES KNOWN TO HAVE THIN BARK. WRAP SPIRALLY FROM BOTTOM TO TOP WITH SPECIFIED TREE WRAP AND SECURE IN PLACE.
 - 2.2. OVERLAP 1/2 THE WIDTH OF THE TREE WRAP STRIP AND COVER THE TRUNK FROM THE GROUND TO THE HEIGHT OF THE SECOND BRANCH.
 - 2.3. SECURE TREE WRAP IN PLACE WITH TWINE WOUND SPIRALLY DOWNWARD IN THE OPPOSITE DIRECTION, TIED AROUND THE TREE IN AT LEAST 3 PLACES IN ADDITION TO THE TOP AND BOTTOM.
 - 2.4. WRAP THE TREES IN THE FALL AND LEAVE THE WRAP IN PLACE THROUGHOUT THE WINTER AND EARLY SPRING.
 - 2.5. TREE WRAPS ARE TEMPORARY AND NO LONGER NEEDED ONCE THE TREES DEVELOP CORKY BARK.
3. STAKING/GUYING:
 - 3.1. STAKE/GUY ALL TREES IMMEDIATELY AFTER LAWN SODDING OPERATIONS AND PRIOR TO ACCEPTANCE.
 - 3.2. STAKE DECIDUOUS TREES 2" CALIPER AND LESS. STAKE EVERGREEN TREES UNDER 7'-0" TALL.
 - 3.2.1. STAKES ARE PLACED IN LINE WITH PREVAILING WIND DIRECTION AND DRIVEN INTO UNDISTURBED SOIL.
 - 3.2.2. TIES ARE ATTACHED TO THE TREE, USUALLY AT THE LOWEST BRANCH.
 - 3.3. GUY DECIDUOUS TREES OVER 2" CALIPER, GUY EVERGREEN TREES 7'-0" TALL AND OVER.
 - 3.3.1. GUY WIRES TO BE ATTACHED TO THREE STAKES DRIVEN INTO UNDISTURBED SOIL, WITH ONE STAKE PLACED IN THE DIRECTION OF THE PREVAILING WIND.
 - 3.3.2. TIES ARE ATTACHED TO THE TREE, USUALLY AT THE LOWEST BRANCH.
 - 3.3.3. THE AXIS OF THE STAKE SHOULD BE AT 90 DEGREE ANGLE TO THE AXIS ON THE PULL OF THE GUY WIRE.
4. REMOVE ALL GUYING AND STAKING AFTER ONE YEAR FROM PLANTING.

PRUNING:

1. PRUNE DECIDUOUS TREES AND EVERGREENS ONLY TO REMOVE BROKEN OR DAMAGED BRANCHES.

WORKMANSHIP

DURING LANDSCAPE/IRRIGATION INSTALLATION OPERATIONS, ALL AREAS SHALL BE KEPT NEAT AND CLEAN. PRECAUTIONS SHALL BE TAKEN TO AVOID DAMAGE TO EXISTING STRUCTURES. ALL WORK SHALL BE PERFORMED IN A SAFE MANNER TO THE OPERATORS, THE OCCUPANTS AND ANY PEDESTRIANS.

UPON COMPLETION OF INSTALLATION OPERATIONS, ALL EXCESS MATERIALS, EQUIPMENT, DEBRIS AND WASTE MATERIAL SHALL BE CLEANED UP AND REMOVED FROM THE SITE, UNLESS PROVISIONS HAVE BEEN GRANTED BY THE OWNER TO USE ON-SITE TRASH RECEPTACLES. SWEEP PARKING AND WALKS CLEAN OF DIRT AND DEBRIS. REMOVE ALL PLANT TAGS AND OTHER DEBRIS FROM LAWNS AND PLANTING AREAS.

ANY DAMAGE TO THE LANDSCAPE, THE STRUCTURE, OR THE IRRIGATION SYSTEM CAUSED BY THE LANDSCAPE CONTRACTOR SHALL BE REPAIRED BY THE LANDSCAPE CONTRACTOR WITHOUT CHARGE TO THE OWNER.

MAINTENANCE

CONTRACTOR SHALL PROVIDE MAINTENANCE UNTIL WORK HAS BEEN ACCEPTED BY THE OWNER'S REPRESENTATIVE.

MAINTENANCE SHALL INCLUDE MOWING, FERTILIZING, MULCHING, PRUNING, CULTIVATION, WEEDING, WATERING, AND APPLICATION OF APPROPRIATE INSECTICIDES AND FUNGICIDES AS NECESSARY TO MAINTAIN PLANTS AND LAWNS FREE OF INSECTS AND DISEASE.

1. RE-SET SETTLED PLANTS TO PROPER GRADE AND POSITION. RESTORE PLANTING SAUCER AND ADJACENT MATERIAL AND REMOVE DEAD MATERIAL.
2. REPAIR GUY WIRES AND STAKES AS REQUIRED. REMOVE ALL STAKES AND GUY WIRES AFTER 1 YEAR.
3. CORRECT DEFICIENCIES AS SOON AS POSSIBLE AFTER DEFICIENCIES BECOME APPARENT AND WEATHER AND SEASON PERMIT.
4. WATER TREES, PLANTS AND GROUND COVER BEDS WITHIN THE FIRST 24 HOURS OF INITIAL PLANTING, AND NOT LESS THAN TWICE PER WEEK UNTIL FINAL ACCEPTANCE.

LANDSCAPE MAINTENANCE SPECIFICATIONS

THE CONTRACTOR SHALL PROVIDE AS A SEPARATE BID, MAINTENANCE FOR A PERIOD OF 1 YEAR AFTER FINAL ACCEPTANCE OF THE PROJECT LANDSCAPING. THE CONTRACTOR MUST BE ABLE TO PROVIDE CONTINUED MAINTENANCE IF REQUESTED BY THE OWNER OR PROVIDE THE NAME OF A REPUTABLE LANDSCAPE CONTRACTOR WHO CAN PROVIDE MAINTENANCE.

STANDARDS

ALL LANDSCAPE MAINTENANCE SERVICES SHALL BE PERFORMED BY TRAINED PERSONNEL USING CURRENT, ACCEPTABLE HORTICULTURAL PRACTICES.

ALL WORK SHALL BE PERFORMED IN A MANNER THAT MAINTAINS THE ORIGINAL INTENT OF THE LANDSCAPE DESIGN.

ALL CHEMICAL APPLICATIONS SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT COUNTY, STATE AND FEDERAL LAWS, USING EPA REGISTERED MATERIALS AND METHODS OF APPLICATION. THESE APPLICATIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF A LICENSED CERTIFIED APPLICATOR.

APPROVALS

ANY WORK PERFORMED IN ADDITION TO THAT WHICH IS OUTLINED IN THE CONTRACT SHALL ONLY BE DONE UPON WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE (GENERAL MANAGER OF THE RESTAURANT).

ALL SEASONAL COLOR SELECTIONS SHALL BE APPROVED BY THE GENERAL MANAGER PRIOR TO ORDERING AND INSTALLATION.

SOIL TESTING

THE MAINTENANCE CONTRACTOR SHALL PERFORM SOIL TESTS AS NEEDED TO IDENTIFY IMBALANCES OR DEFICIENCIES CAUSING PLANT MATERIAL DECLINE. THE OWNER SHALL BE NOTIFIED OF THE RECOMMENDATION FOR APPROVAL, AND THE NECESSARY CORRECTIONS MADE AT AN ADDITIONAL COST TO THE OWNER.

ACCEPTABLE SOIL TEST RESULTS

	LANDSCAPE TREES AND SHRUBS	TURF
pH RANGE	5.0 - 7.0	6.0 - 7.0
ORGANIC MATTER	> 1.5%	> 2.5%
MAGNESIUM (MG)	100+ LBS/ACRE	100+ LBS/ACRE
PHOSPHORUS (PPPM)	150+ LBS/ACRE	150+ LBS/ACRE
POTASSIUM (K2O)	120+ LBS/ACRE	120+ LBS/ACRE
SOLUBLE SALTS/ CONDUCTIVITY	NOT TO EXCEED 900PPM/1.9MMHOS/CM IN SOIL, NOT TO EXCEED 1400 PPM/2.5 MMHOS/CM IN HIGH ORGANIC MIX.	NOT TO EXCEED 900PPM/1.9MMHOS/CM IN SOIL, NOT TO EXCEED 1400 PPM/2.5 MMHOS/CM IN HIGH ORGANIC MIX.

WORKMANSHIP

DURING LANDSCAPE MAINTENANCE OPERATIONS, ALL AREAS SHALL BE KEPT NEAT AND CLEAN. PRECAUTIONS SHALL BE TAKEN TO AVOID DAMAGE TO EXISTING STRUCTURES. ALL WORK SHALL BE PERFORMED IN A SAFE MANNER TO THE OPERATORS, THE OCCUPANTS AND ANY PEDESTRIANS.

UPON COMPLETION OF MAINTENANCE OPERATIONS, ALL DEBRIS AND WASTE MATERIAL SHALL BE CLEANED UP AND REMOVED FROM THE SITE, UNLESS PROVISIONS HAVE BEEN GRANTED BY THE OWNER TO USE ON-SITE TRASH RECEPTACLES.

ANY DAMAGE TO THE LANDSCAPE, THE STRUCTURE, OR THE IRRIGATION SYSTEM CAUSED BY THE MAINTENANCE CONTRACTOR, SHALL BE REPAIRED BY THE MAINTENANCE CONTRACTOR WITHOUT CHARGE TO THE OWNER.

TURF

GENERAL CLEAN UP

PRIOR TO MOWING, ALL TRASH, STICKS, AND OTHER UNWANTED DEBRIS SHALL BE REMOVED FROM LAWNS, PLANT BEDS, AND PAVED AREAS.

MOWING

WARM SEASON GRASSES (IE. BERMUDDA GRASS) SHALL BE MAINTAINED AT A HEIGHT OF 1" TO 2" DURING THE GROWING SEASON.

COOL SEASON GRASSES, INCLUDING BLUE GRASS, TALL FESCUE, PERENNIAL RYEGRASS, ETC., SHALL BE MAINTAINED AT A HEIGHT OF 2" TO 3" IN SPRING AND FALL. FROM JUNE THROUGH SEPTEMBER, MOWING HEIGHT SHALL BE MAINTAINED AT NO LESS THAN 3".

THE MOWING OPERATION INCLUDES TRIMMING AROUND ALL OBSTACLES, RAKING EXCESSIVE GRASS CLIPPINGS AND REMOVING DEBRIS FROM WALKS, CURBS, AND PARKING AREAS. CAUTION: WEED EATERS SHOULD NOT BE USED AROUND TREES BECAUSE OF POTENTIAL DAMAGE TO THE BARK.

EDGING

EDGING OF ALL SIDEWALKS, CURBS AND OTHER PAVED AREAS SHALL BE PERFORMED ONCE EVERY OTHER MOWING. DEBRIS FROM THE EDGING OPERATIONS SHALL BE REMOVED AND THE AREAS SWEEP CLEAN. CAUTION SHALL BE USED TO AVOID FLYING DEBRIS.

LIMING & FERTILIZING

A SOIL TEST SHALL BE TAKEN TO DETERMINE WHETHER AN APPLICATION OF LIMESTONE IN LATE FALL IS NECESSARY. IF LIMESTONE IS REQUIRED, THE LANDSCAPE CONTRACTOR SHALL SPECIFY THE RATE, OBTAIN APPROVAL FROM THE OWNER AND APPLY IT AT AN ADDITIONAL COST. A UNIT PRICE FOR LIMING OF TURF SHALL ACCOMPANY THE BID BASED ON A RATE OF 50 POUNDS PER 1000 SQUARE FEET.

FERTILIZER SHALL BE APPLIED IN AREAS BASED ON THE EXISTING TURF SPECIES.

LAWN WEED CONTROL-HERBICIDES

SELECTION AND PROPER USE OF HERBICIDES SHALL BE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY. ALL CHEMICAL APPLICATIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF A LICENSED CERTIFIED APPLICATOR. READ THE LABEL PRIOR TO APPLYING ANY CHEMICAL.

INSECT & DISEASE CONTROL FOR TURF

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING THE SITE CONDITIONS ON EACH VISIT TO DETERMINE IF ANY INSECT PEST OR DISEASE PROBLEMS EXIST. THE CONTRACTOR SHALL IDENTIFY THE INSECT PEST OR DISEASE, AS WELL AS THE HOST PLANT, AND THEN CONSULT THE MOST CURRENT EDITION OF THE COOPERATIVE EXTENSION SERVICE'S "COMMERCIAL INSECTICIDE RECOMMENDATION FOR TURF" FOR CONTROL. THE LICENSED APPLICATOR SHALL BE FAMILIAR WITH THE LABEL PROVIDED FOR THE SELECTED PRODUCT PRIOR TO APPLICATION.

INSPECTION AND TREATMENT TO CONTROL INSECT PESTS SHALL BE INCLUDED IN THE CONTRACT PRICE.

TREES, SHRUBS, & GROUND COVER

PRUNING

ALL ORNAMENTAL TREES, SHRUBS AND GROUND COVER SHALL BE PRUNED WHEN APPROPRIATE TO REMOVE DEAD OR DAMAGED BRANCHES. DEVELOP THE NATURAL SHAPE. DO NOT SHEAR TREES OR SHRUBS. IF PREVIOUS MAINTENANCE PRACTICE HAS BEEN TO SHEAR AND BALL, THEN A NATURAL SHAPE WILL BE RESTORED GRADUALLY.

PRUNING GUIDELINES:

1. PRUNE THOSE THAT FLOWER BEFORE THE END OF JUNE IMMEDIATELY AFTER FLOWERING. FLOWER BUDS DEVELOP DURING THE PREVIOUS GROWING SEASON. FALL, WINTER OR SPRING PRUNING WOULD REDUCE THE SPRING FLOWERING DISPLAY.
2. PRUNE THOSE THAT FLOWER IN SUMMER OR AUTUMN IN WINTER OR SPRING BEFORE NEW GROWTH BEGINS, SINCE THESE PLANTS DEVELOP FLOWERS ON NEW GROWTH.

3. DELAY PRUNING PLANTS GROWN FOR ORNAMENTAL FRUITS, SUCH AS COTONEASTERS, PYRACANTHAS AND VIBURNUMS.
4. HOLLES AND OTHER EVERGREENS MAY BE PRUNED DURING WINTER IN ORDER TO USE THEIR BRANCHES FOR SEASONAL DECORATION. HOWEVER, SEVERE PRUNING OF EVERGREENS SHOULD BE DONE IN EARLY SPRING ONLY.
5. BROAD-LEAF EVERGREEN SHRUBS SHALL BE HAND-PRUNED TO MAINTAIN THEIR NATURAL APPEARANCE AFTER THE NEW GROWTH HARDENS OFF.
6. HEDGES OR SHRUBS THAT REQUIRE SHEARING TO MAINTAIN A FORMAL APPEARANCE SHALL BE PRUNED AS REQUIRED. DEAD WOOD SHALL BE REMOVED FROM SHEARED PLANTS BEFORE THE FIRST SHEARING OF THE SEASON.
7. CONFISERS SHALL BE PRUNED, IF REQUIRED, ACCORDING TO THEIR GENUS.
 - 7.1. WIRES, JUNIPERS, HEMLOCKS, ARBORVITAE, AND FALSE-CYPRESS MAY BE PRUNED AFTER NEW GROWTH HAS HARDENED OFF IN LATE SUMMER. IF SEVERE PRUNING IS NECESSARY, IT MUST BE DONE IN EARLY SPRING.
 - 7.2. FIRS AND SPRUCES MAY BE LIGHTLY PRUNED IN LATE SUMMER, FALL, OR WINTER AFTER COMPLETING GROWTH. LEAVE SIDE BUDS. NEVER CUT CENTRAL LEADER.
 - 7.3. PINES MAY BE LIGHTLY PRUNED IN EARLY JUNE BY REDUCING CANDLES.
8. GROUNDCOVER SHALL BE PRUNED AS NEEDED TO CONTAIN IT WITHIN ITS BORDERS.
9. THINNING- REMOVE BRANCHES AND WATER SPROUTS BY CUTTING THEM BACK TO THEIR POINT OF ORIGIN ON PARENT STEMS. THIS METHOD RESULTS IN A MORE OPEN PLANT, WITHOUT STIMULATING EXCESSIVE GROWTH. THINNING IS USED ON CREPE MYRTLES, LILACS, VIBURNUMS, SMOKE BUSH ETC.
10. UNIFORM PRUNING OF THE OLDEST BRANCHES OF SHRUB AT GROUND, LEAVING THE YOUNGER, MORE VIGOROUS BRANCHES TO REMOVE WEAK STEMS. ON OVERGROWN PLANTS, THIS METHOD MAY BE BEST DONE OVER A THREE-YEAR PERIOD. RENEWAL PRUNING MAY BE USED ON ABELIA, FORSYTHIA, DEUTZIA, SPIREA, ETC.

PLANTS OVERHANGING PASSAGEWAYS AND PARKING AREAS AND DAMAGED PLANTS SHALL BE PRUNED AS NEEDED.

SHADE TREES THAT CANNOT BE ADEQUATELY PRUNED FROM THE GROUND SHALL NOT BE INCLUDED IN THE MAINTENANCE CONTRACT. A CERTIFIED ARBORIST UNDER A SEPARATE CONTRACT SHALL PERFORM THIS TYPE OF WORK.

SPRING CLEANUP

PLANT BEDS SHALL RECEIVE A GENERAL CLEANUP BEFORE FERTILIZING AND MULCHING. CLEANUP INCLUDES REMOVING DEBRIS AND TRASH FROM BEDS AND CUTTING BACK HERBACEOUS PERENNIALS LEFT STANDING THROUGH WINTER, E.G. ORNAMENTAL GRASSES, SEDUM AUTUMN JOY.

FERTILIZING

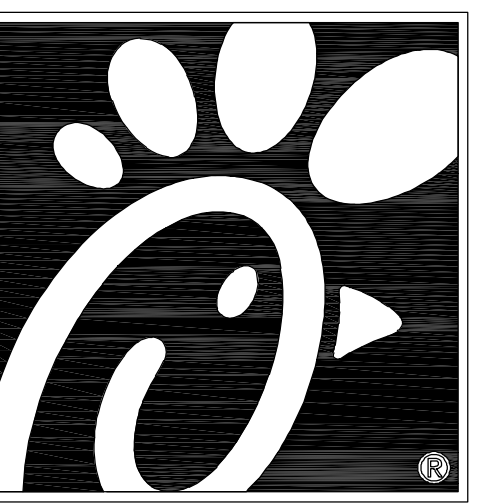
FOR TREES, THE RATE OF FERTILIZATION DEPENDS ON THE TREE SPECIES, TREE VIGOR, AREA AVAILABLE FOR FERTILIZATION, AND GROWTH STAGE OF THE TREE. MATURE SPECIMENS BENEFIT FROM FERTILIZATION EVERY 3 TO 4 YEARS; YOUNGER TREES SHALL BE FERTILIZED MORE OFTEN DURING RAPID GROWTH STAGES.

THE CURRENT RECOMMENDATION IS BASED ON THE RATE OF 1000 SQUARE FEET OF AREA UNDER THE TREE TO BE FERTILIZED. FOR DECIDUOUS TREES, 2 TO 6 POUNDS OF NITROGEN PER 1000 SQUARE FEET; FOR NARROW-LEAF EVERGREENS, 1 TO 4 POUNDS OF NITROGEN PER 1000 SQUARE FEET; FOR BROAD-LEAF EVERGREENS, 1 TO 3 POUNDS OF NITROGEN PER 2000 SQUARE FEET.

SHRUBS AND GROUNDCOVER SHALL BE TOP-DRESSED WITH COMPOST 1" DEEP, OR FERTILIZED ONCE IN MARCH WITH 10-6-4 ANALYSIS FERTILIZER AT THE RATE OF 3 POUNDS PER 100 SQUARE FEET OF BED AREA. ERICACEOUS MATERIAL SHALL BE FERTILIZED WITH AN ERICACEOUS FERTILIZER AT THE MANUFACTURER'S RECOMMENDATION RATE. IF PLANTS ARE GROWING POORLY, A SOIL SAMPLE SHOULD BE TAKEN.

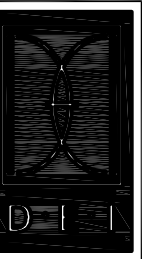
MULCHING

ANNUALLY, ALL TREE AND SHRUB BEDS WILL BE PREPARED AND MULCHED, TO A MINIMUM DEPTH OF 3" WITH QUALITY MULCH TO MATCH EXISTING. BED PREPARATION SHALL INCLUDE REMOVING ALL WEEDS, CLEARING UP SAID BED, EDGING AND CULTIVATING DECAYED

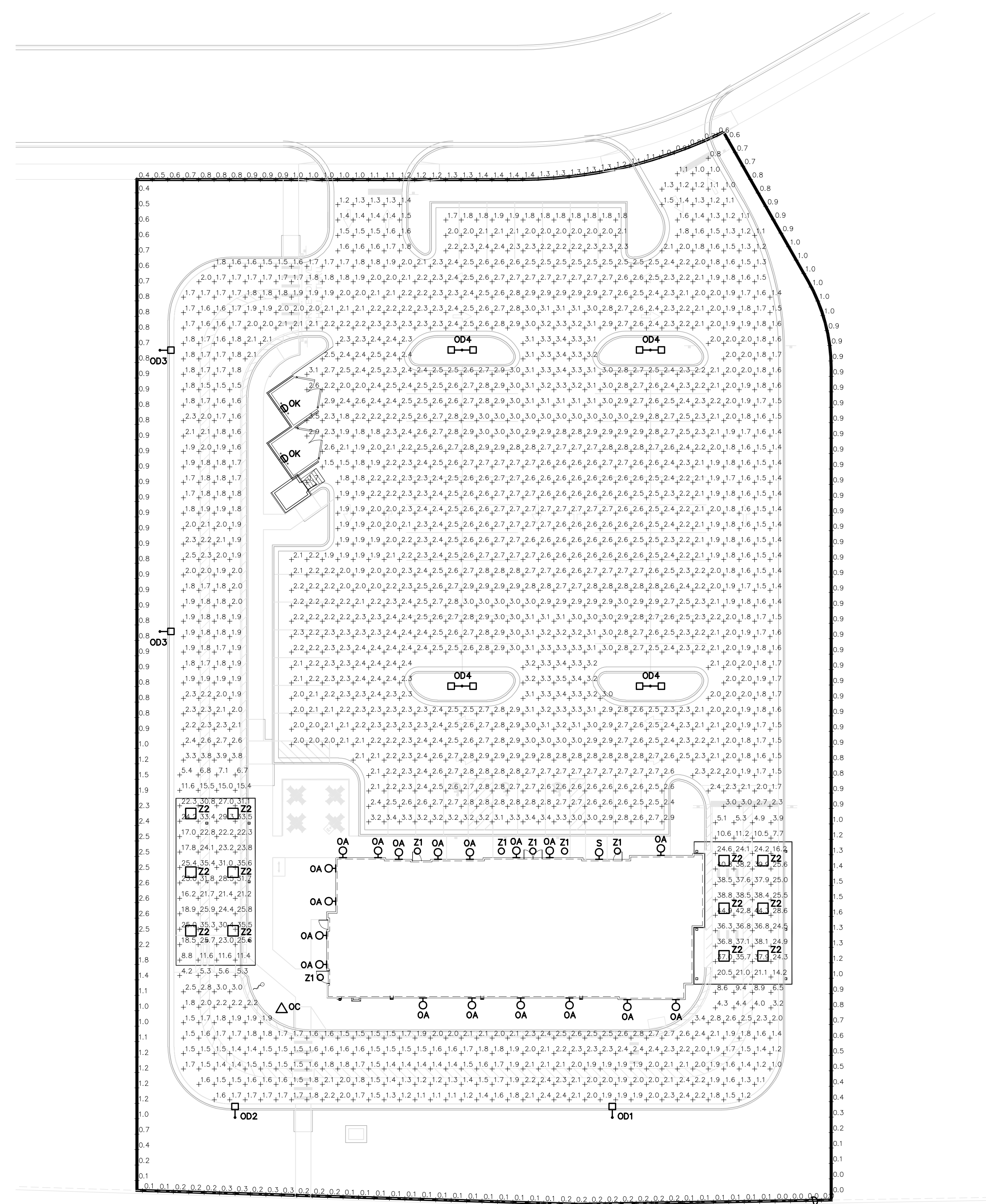


Chick-fil-A

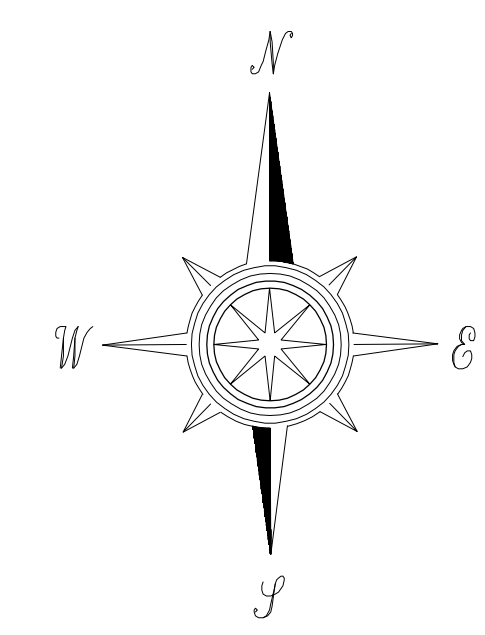
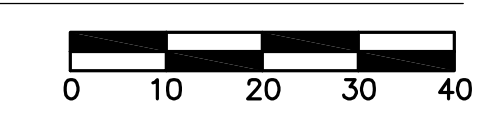
Chick-fil-A
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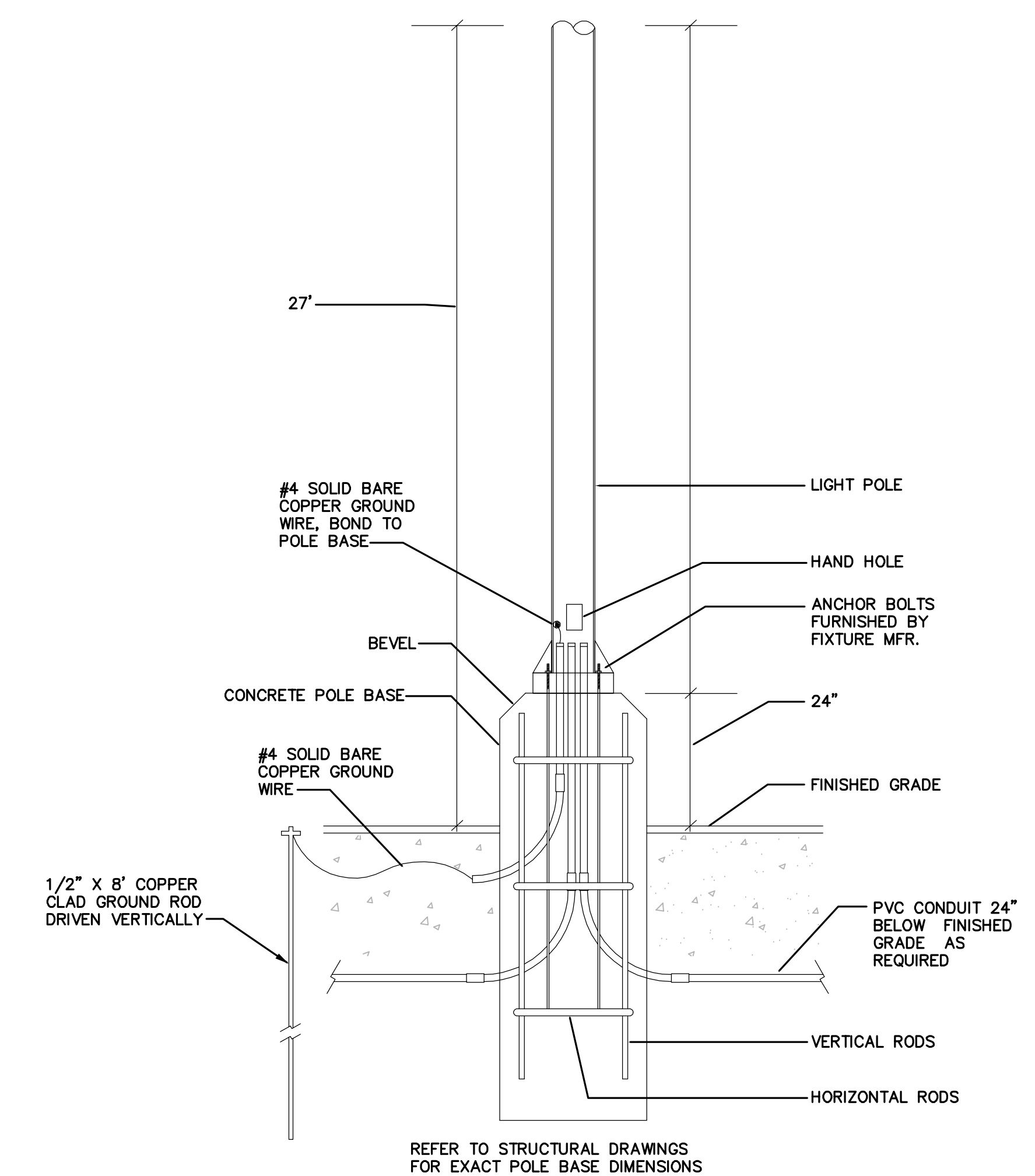
1 PHOTOMETRIC PLAN
SCALE: 1"=20'-0"



PHOTOMETRIC STATISTICS (MAINTAINED) IN PARKING LOT (NOT INCLUDING UNDER CANOPY LIGHTING)

AVERAGE	2.3 FC
MAX	3.9 FC
MIN	0.7 FC

FIXTURE	HEIGHT (UNLESS NOTED OTHERWISE)	LIGHT LOSS FACTOR	COLOR	LIGHT FIXTURE SPECIFICATION	POLE	COMMENTS
OD1	27'	.9	4000K	COOPER/LUMARK - PRV-C25-D-UNV-T3-SA-BZ	SSS-4-A-25-S-F-M-1-4 (SINGLE LUMINAIRE)	
OD2	27'	.9	4000K	COOPER/LUMARK - PRV-C25-D-UNV-T4-SA-BZ	SSS-4-A-25-S-F-M-1-4 (SINGLE LUMINAIRE)	
OD3	27'	.9	4000K	COOPER/LUMARK - PRV-C25-D-UNV-T4-SA-BZ-HS/VERD	SSS-4-A-25-S-F-M-1-4 (SINGLE LUMINAIRE)	PROVIDE HOUSE SIDE SHIELD
OD4	27'	.9	4000K	COOPER/LUMARK - (2) PRV-C25-D-UNV-T5-SA-BZ	SSS-4-A-25-S-F-M-2-4 (TWO LUMINAIRES @ 180°)	
OA	8'	.9	3000K	PROGRESS LIGHTING - P5713-31 WITH TOP COVER LENS		DOWNLIGHT ONLY
OC	ON GRADE	.9	4000K	HUBBELL - FL-42L-95-3K-7-N-U-K-DB		FLOODLIGHT AIMED AT FLAG AFTER DARK
OK	8'	.9	3000K	HUBBELL - LNC-5L-U-3K-3		
S	9'	.9	3000K	HI-LITE - H-18112-91-B-13-91-20W		
Z1	10'	.9	3000K	PROVIDED WITH CANOPY		
Z2	9'-6"	.9	3000K	LSI - CRUS-SC-LED-LW30-UE-WHT		



2 TYPICAL POLE BASE DETAIL
NOT TO SCALE

CHICK-FIL-A
FITCHBURG FSU
NWQ OF MCKEE & FITCHRONA ROAD
FITCHBURG, WI 53719

FSR# 05918

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

ENGINEER'S PROJECT # 24009.66
PRINTED FOR REVIEW
DATE 10/09/2024
DRAWN BY NR
SHEET



NORTH EAST PERSPECTIVE VIEW



SOUTH EAST PERSPECTIVE VIEW



SOUTH WEST PERSPECTIVE VIEW



NORTH WEST PERSPECTIVE VIEW

CONSTRUCTION TYPE: WOOD VB
FOUNDATION TYPE: SLAB ON GRADE
NUMBER OF LEVELS: ONE
ROOF TYPE: FLAT
ROOFING MATERIAL: PVC ROOFING

BUILDING IS TO BE EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM (PER IBC 2015 903.2) AND FIRE ALARM (HORN/STROBE).



Chick-fil-A
 5200 Buffington Road
 Atlanta, Georgia
 30349-2998

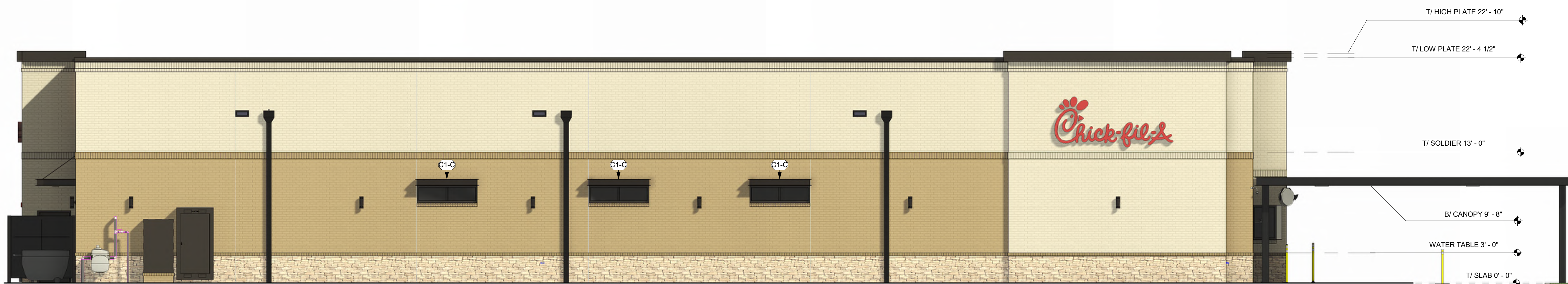


CHIPMAN DESIGN ARCHITECTURE INC
 1350 E TOUHY AVE
 FIRST FLOOR EAST
 DES PLAINES, IL 60018
 TEL : 847.298.6900

PROTOTYPICAL SET

NOT FOR REGULATORY APPROVAL, BIDDING, OR CONSTRUCTION

CHICK-FIL-A
FITCHBURG FSU
 NWQ OF MCKEE RD & FITCHRONA RD
 FITCHBURG, WI 53719



SOUTH EXTERIOR ELEVATION
 3/16" = 1'-0"

EXTERIOR FINISHES

(BR-A) BRICK VENEER COLOR: DARK BROWN SIZE: MODULAR	(EC-1) PREFINISHED METAL COPING COLOR: MIDNIGHT BRONZE
(BR-B) BRICK VENEER COLOR: LIGHT BROWN SIZE: MODULAR	(PT-13) EXTERIOR PAINT COLOR: DARK BRONZE FINISH: SEMI-GLOSS
(STN-) STONE VENEER MFR: BORAL STONE COLOR: HUDSON BAY	(ST-1) STOREFRONT COLOR: DARK BRONZE

ATTACHED CANOPY SCHEDULE LE

Mark	Description	Count	Overall Width	Overall Depth	Tie Back Mounting (Offset From Top)	Integral Lighting
C1-C	Exterior Canopy	9	6'-4"	1'-0"	0'-0"	No
C3-C	Exterior Canopy	1	15'-4"	2'-6"	0'-0"	Yes
C4-B	Exterior Canopy	1	5'-4"	4'-0"	2'-4"	Yes
C4-G	Exterior Canopy	1	7'-4"	4'-0"	2'-4"	Yes
C4-L	Exterior Canopy	1	28'-4"	4'-0"	2'-4"	Yes
Grand total		13				



EXTERIOR ELEVATION
 3/16" = 1'-0"



WEST EXTERIOR ELEVATION
 3/16" = 1'-0"



EAST EXTERIOR ELEVATION
 3/16" = 1'-0"

12/11/2024 4:09:58 PM Autodesk Docs://WI_05918_Fitchburg_2024.4_FSR/05918_Fitchburg_ARC.rvt XX-LE-05918-X-900-DESIGN OVERVIEW

FOR REVIEW ONLY

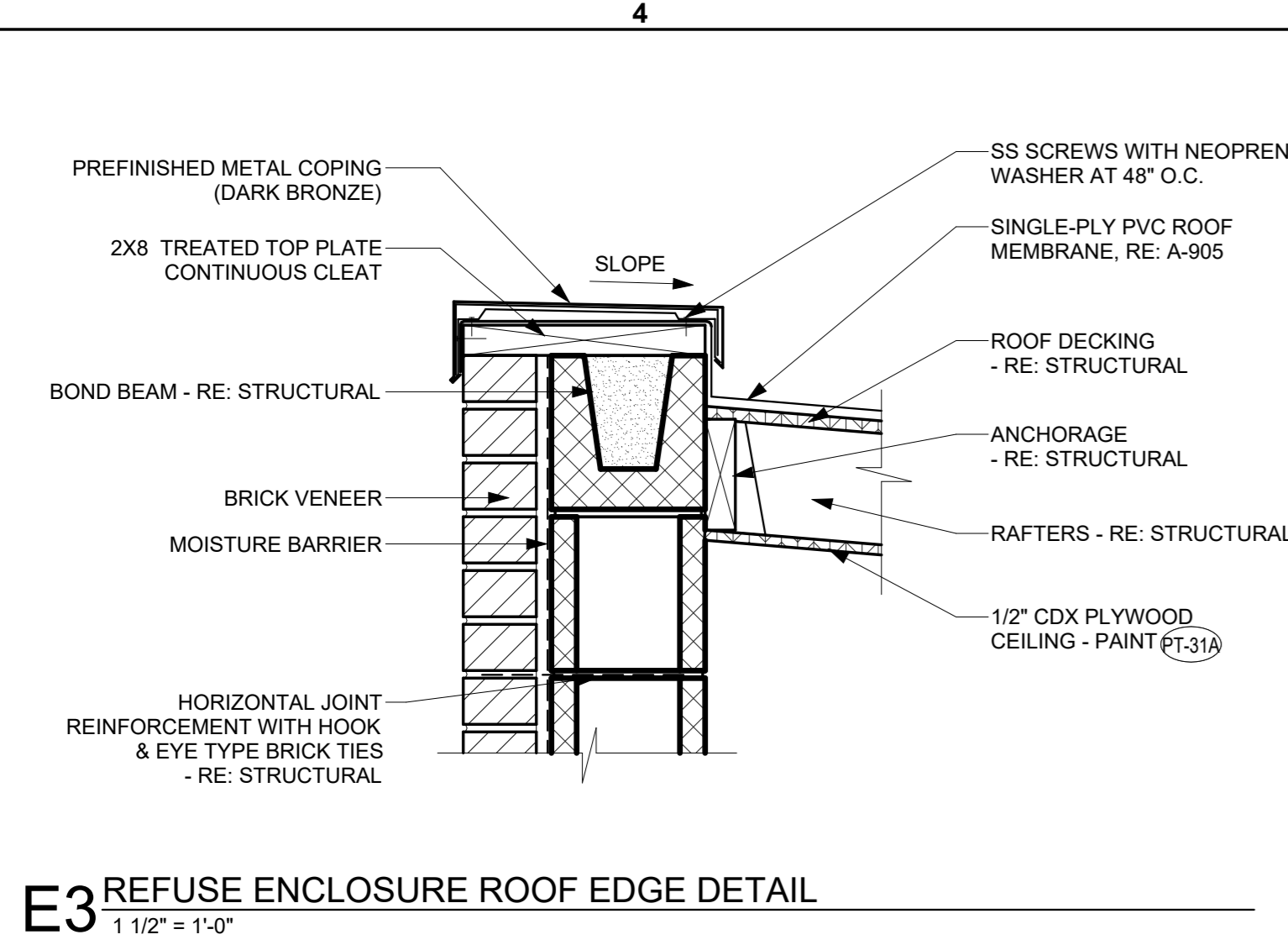
FSR#05918
 BUILDING TYPE / SIZE: P14 LE BASE
 RELEASE: 24-11
 PRINTED FOR:

REVISION SCHEDULE
 NO. DATE DESCRIPTION

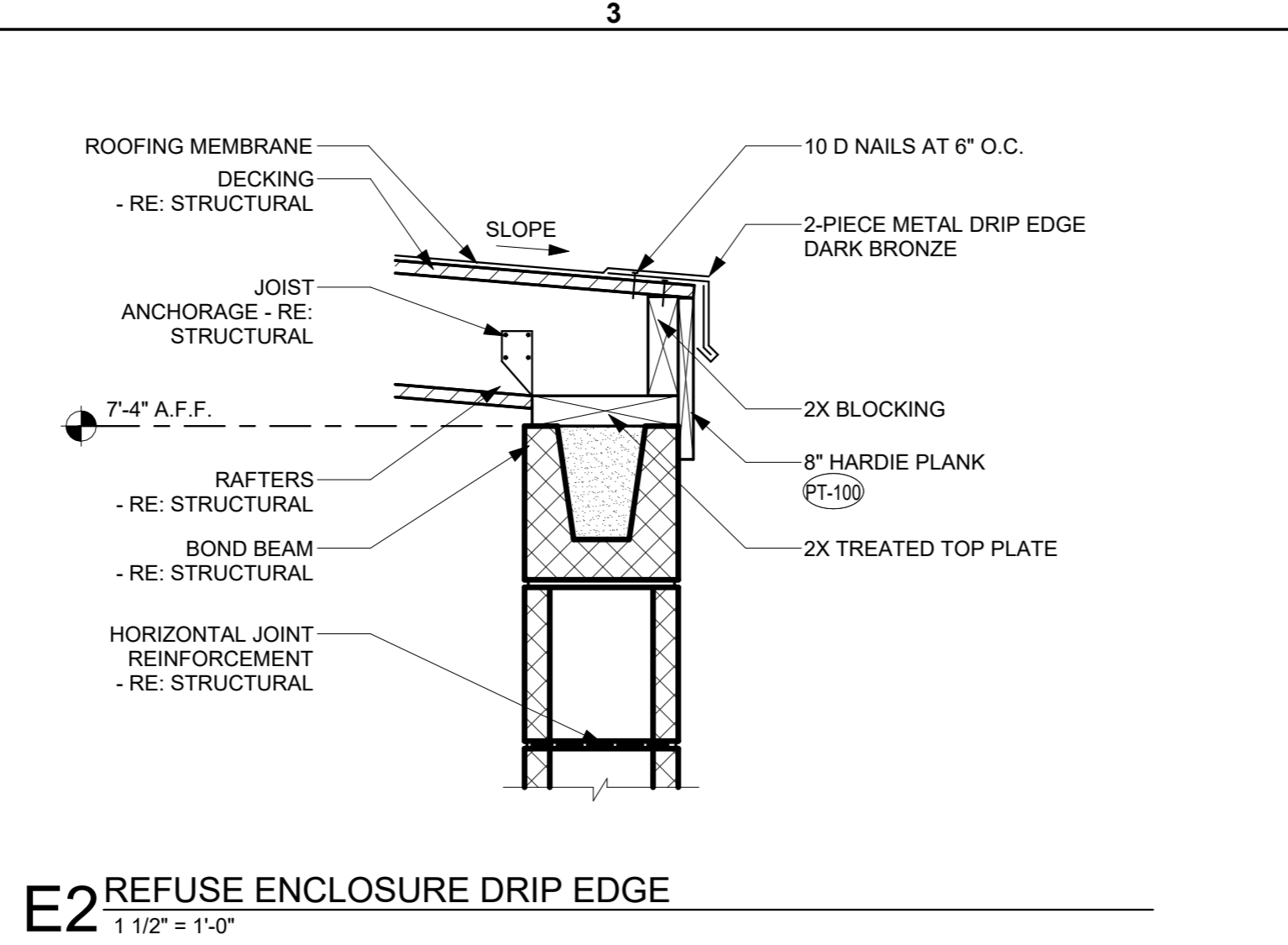
CONSULTANT PROJECT # 24-2416.00
 DATE 12/02/2024
 DRAWN BY MR
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 SHEET DESIGN OVERVIEW

SHEET NUMBER

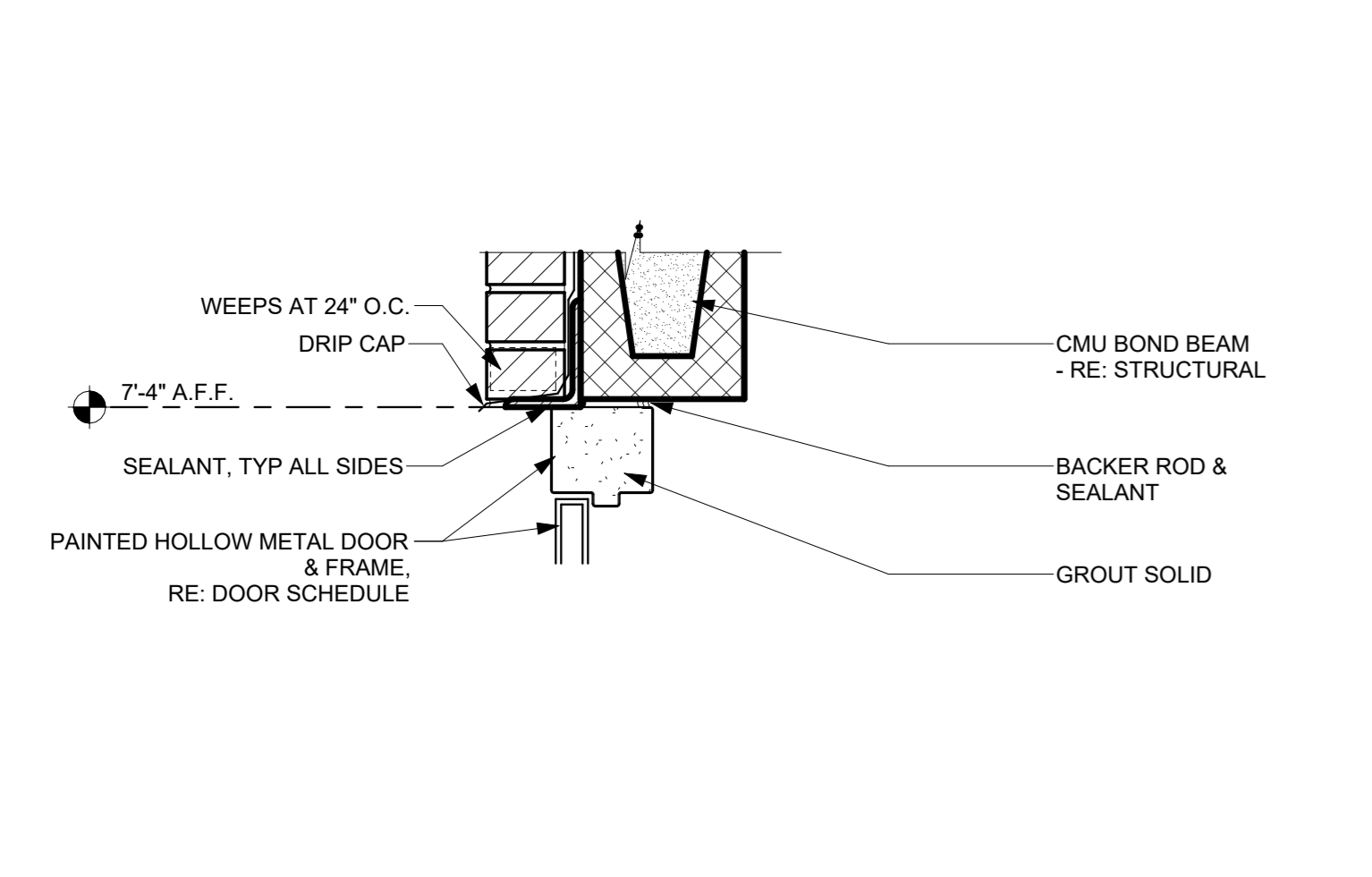
X-900



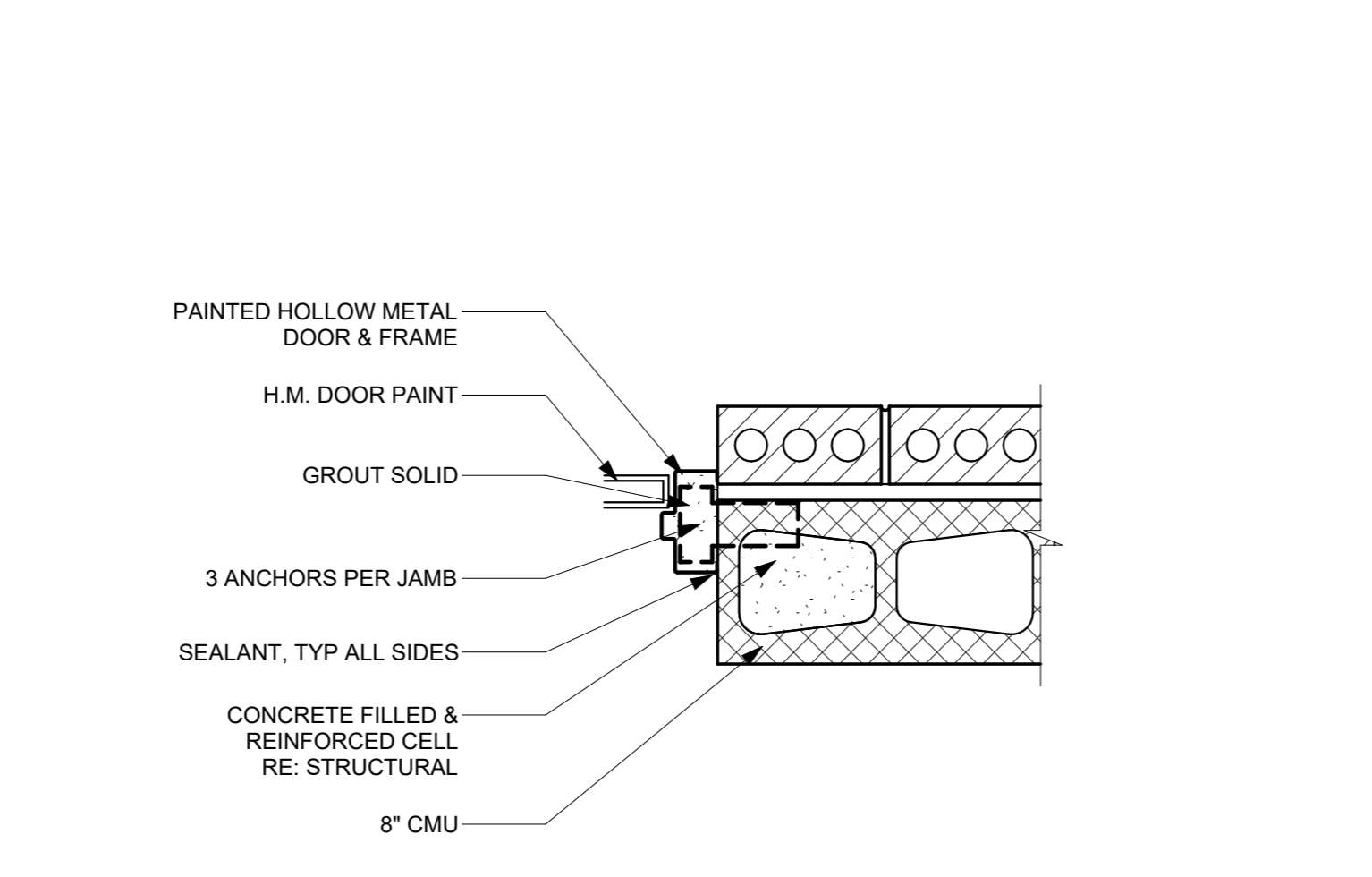
E3 REFUSE ENCLOSURE ROOF EDGE DETAIL
1 1/2" = 1'-0"



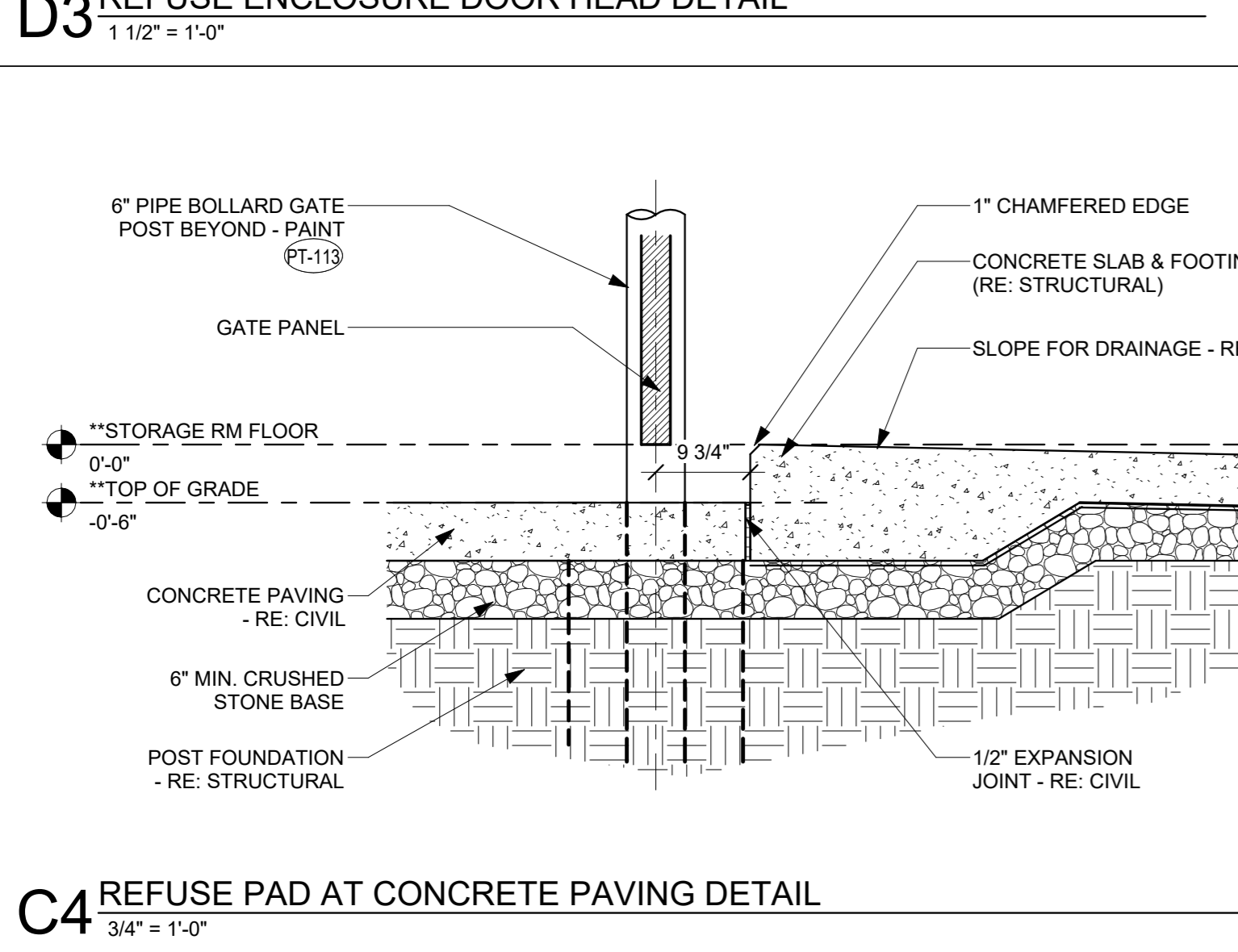
E2 REFUSE ENCLOSURE DRIP EDGE
1 1/2" = 1'-0"



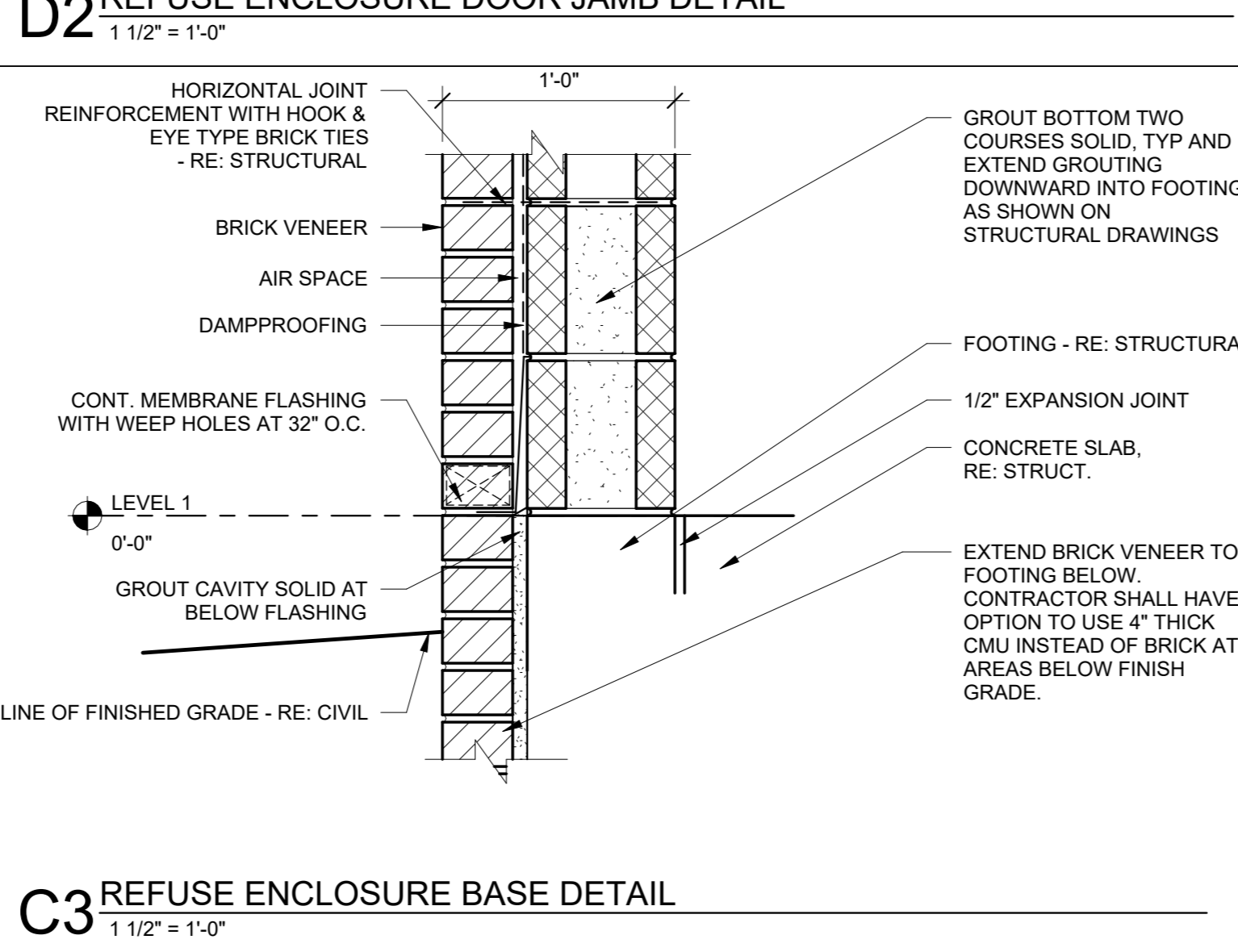
D3 REFUSE ENCLOSURE DOOR HEAD DETAIL
1 1/2" = 1'-0"



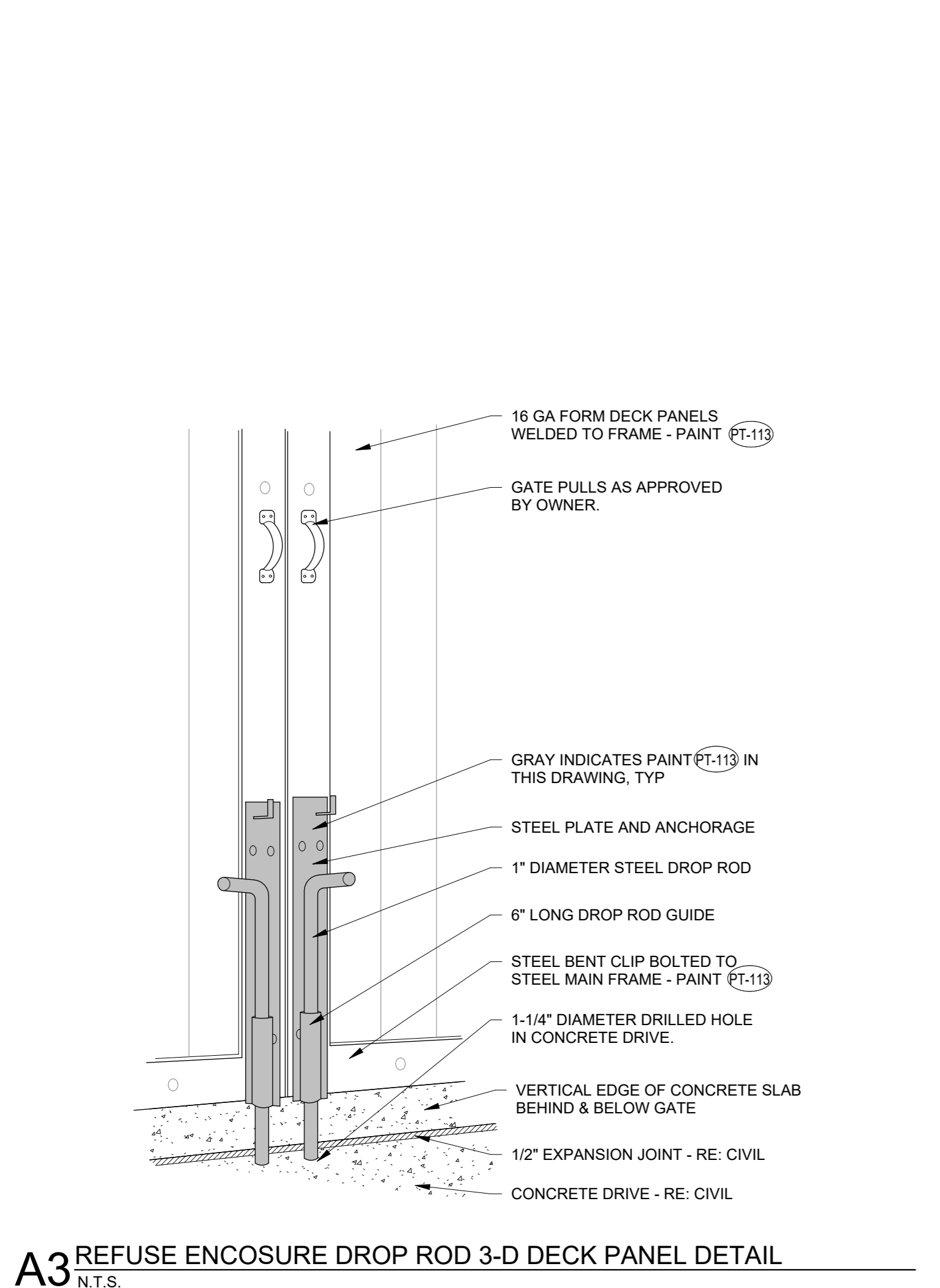
D2 REFUSE ENCLOSURE DOOR JAMB DETAIL
1 1/2" = 1'-0"



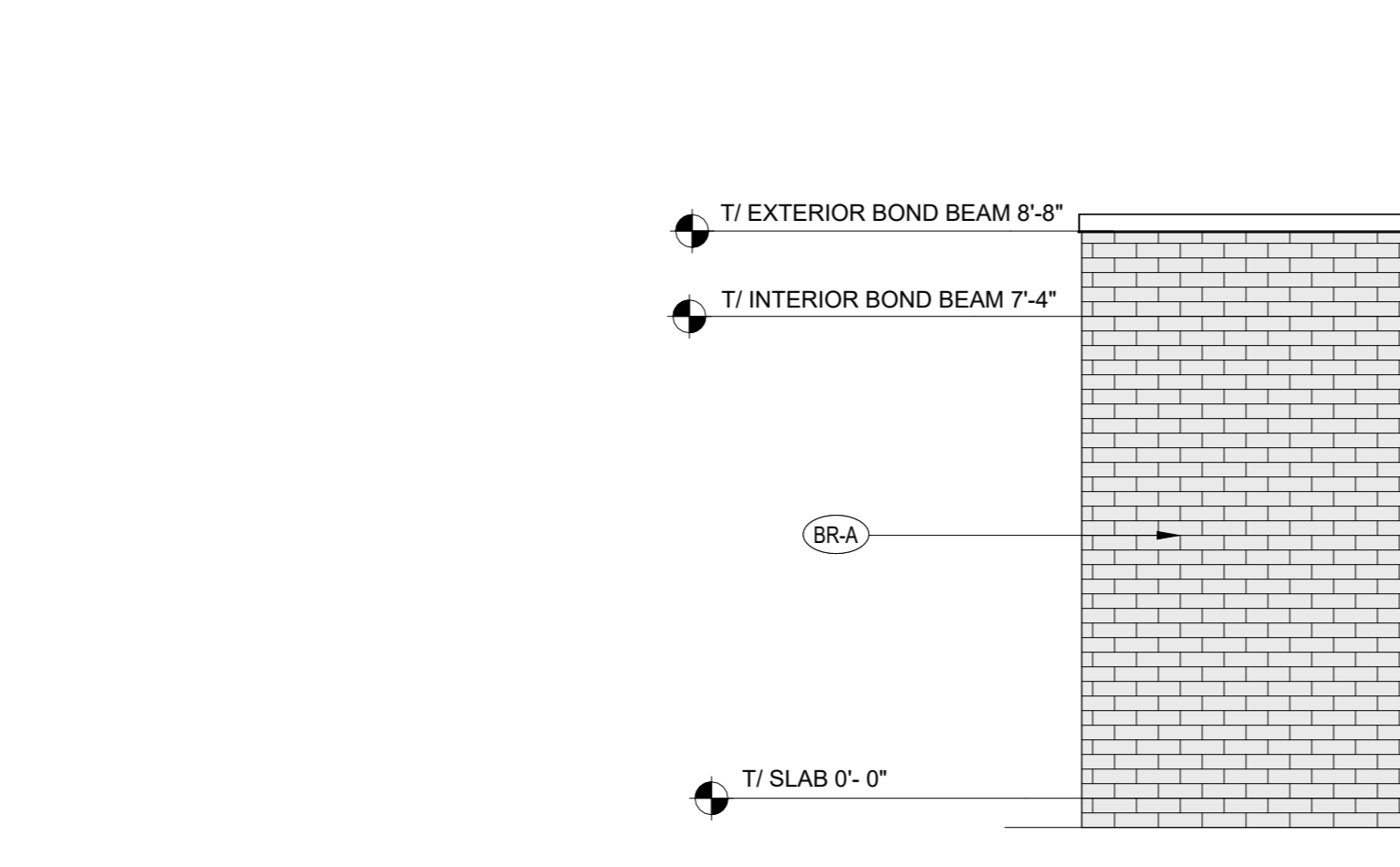
C4 REFUSE PAD AT CONCRETE PAVING DETAIL
3/4" = 1'-0"



C3 REFUSE ENCLOSURE BASE DETAIL
1 1/2" = 1'-0"



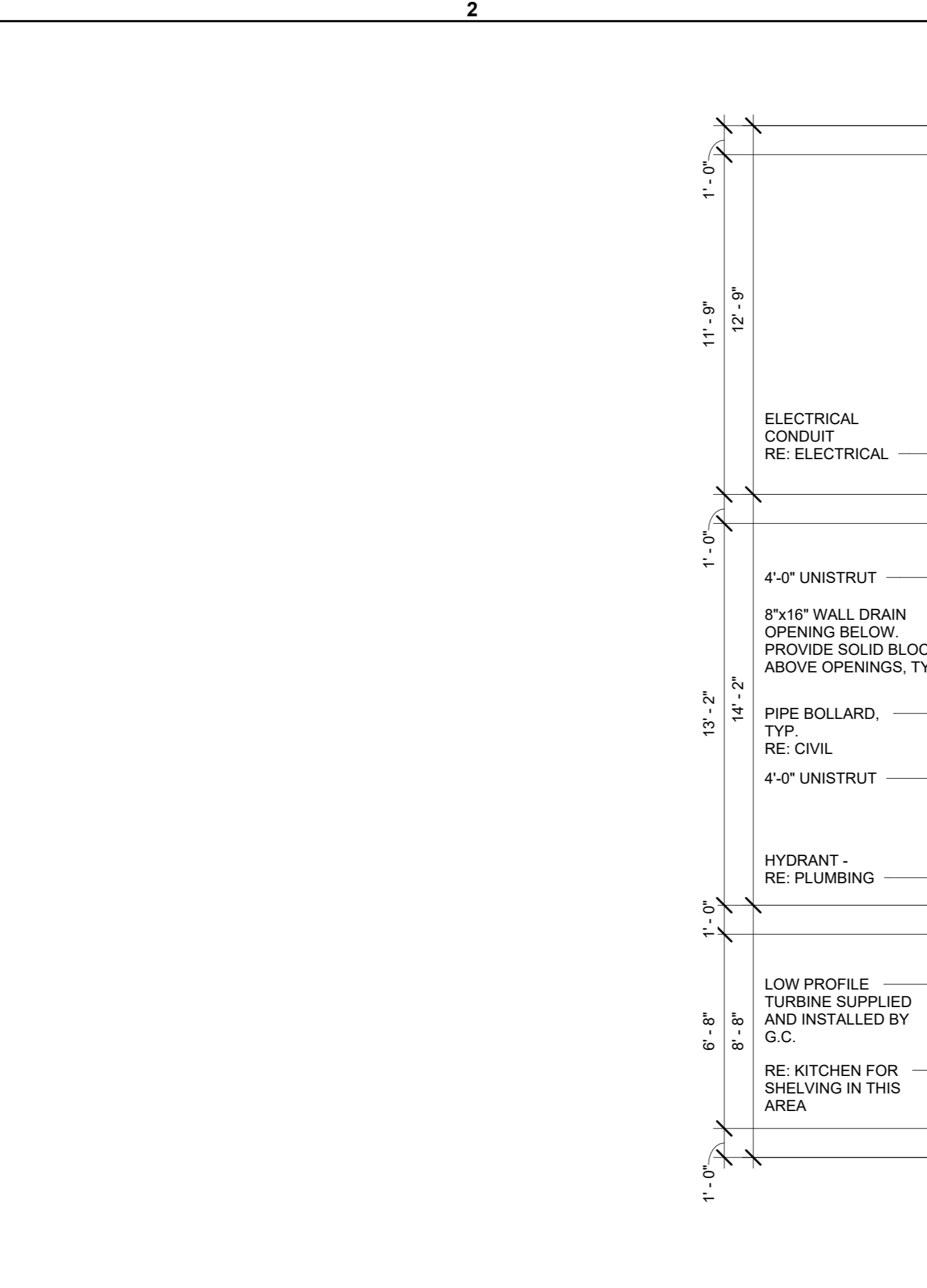
A3 REFUSE ENCLOSURE DROP ROD 3-D DECK PANEL DETAIL
N.T.S.



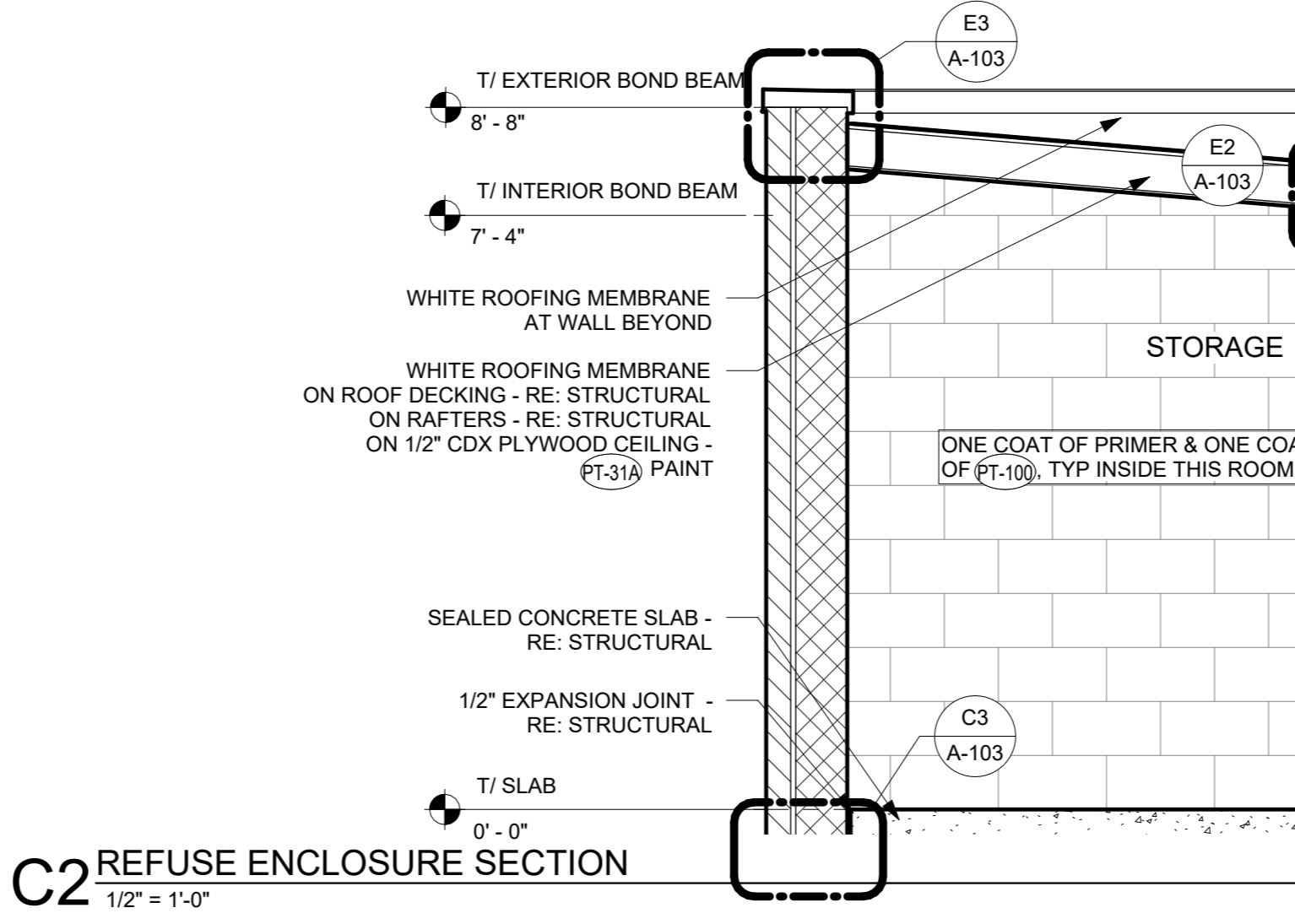
B3 REFUSE ENCLOSURE ELEVATION
3/8" = 1'-0"

REFUSE ENCLOSURE NOTES

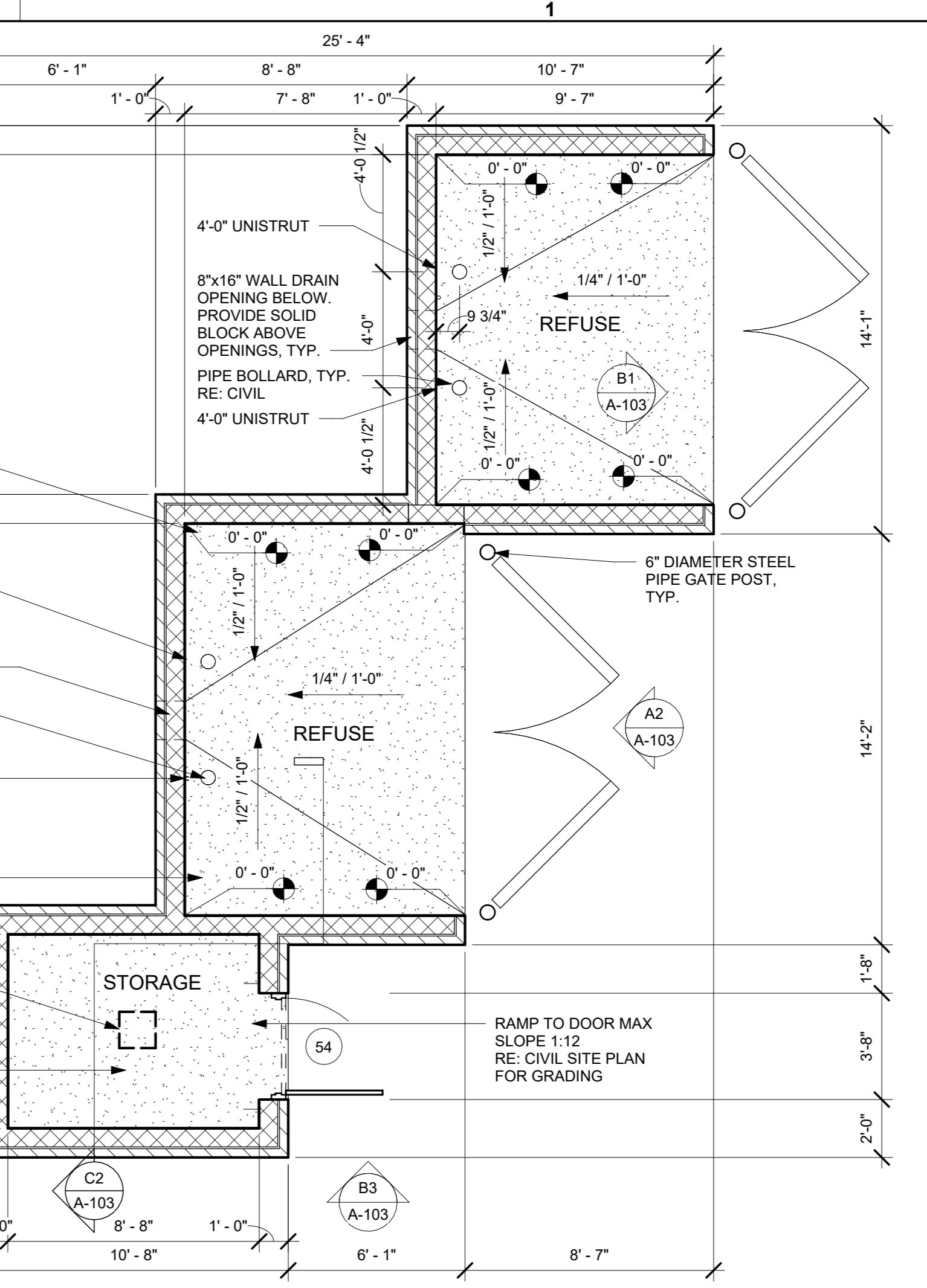
- ** IN THE ARCHITECTURAL DRAWINGS, REFUSE ENCLOSURE AND MAIN BUILDING ARE BOTH NOTED WITH FINISH SLAB AT 0'-0". ACTUAL FINISH SLAB HEIGHTS WILL VARY BETWEEN MAIN BUILDING AND REFUSE ENCLOSURE. REFER TO CIVIL FOR ALL FINISH SLAB HEIGHTS.



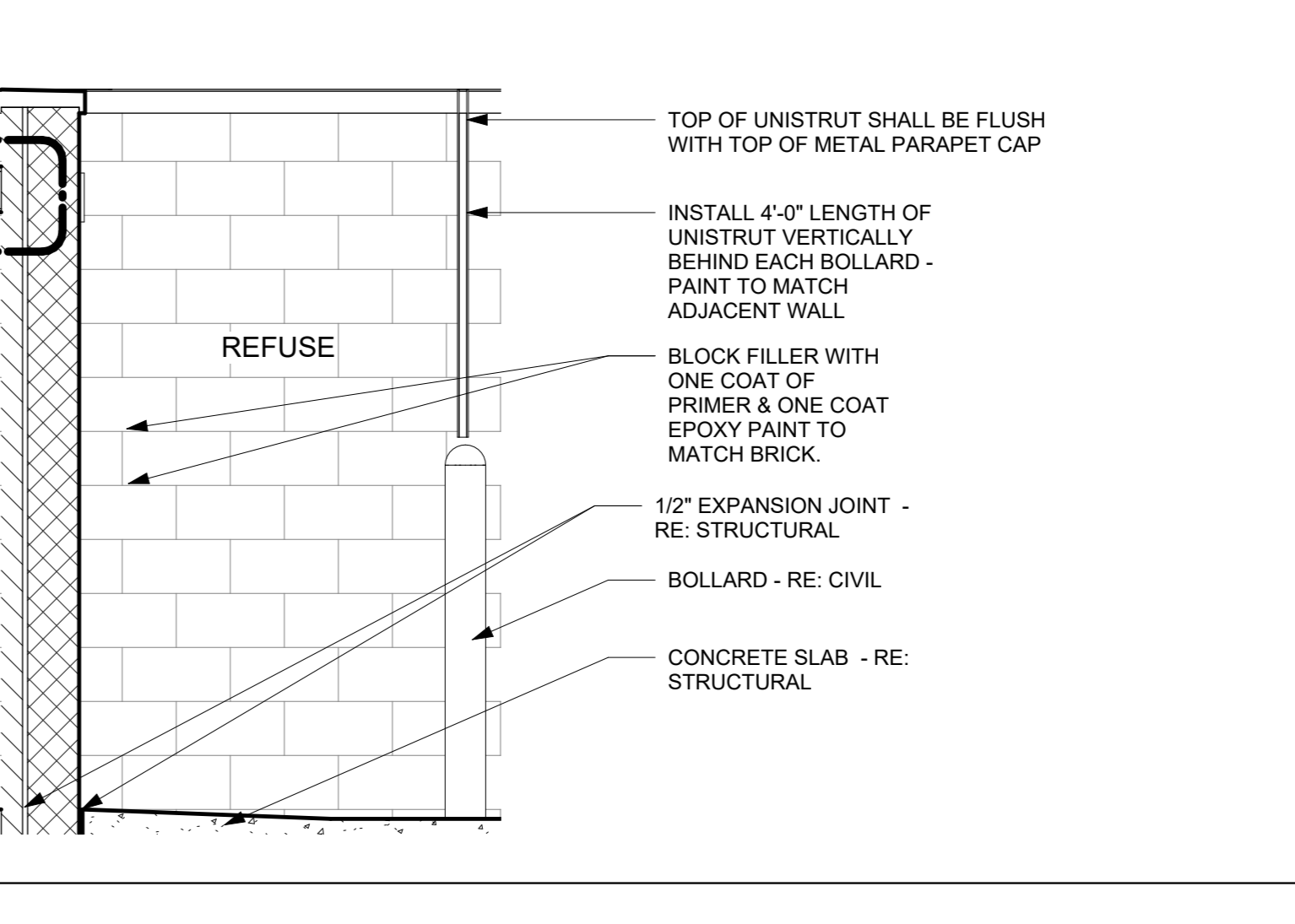
D1 REFUSE ENCLOSURE PLAN
1/4" = 1'-0"



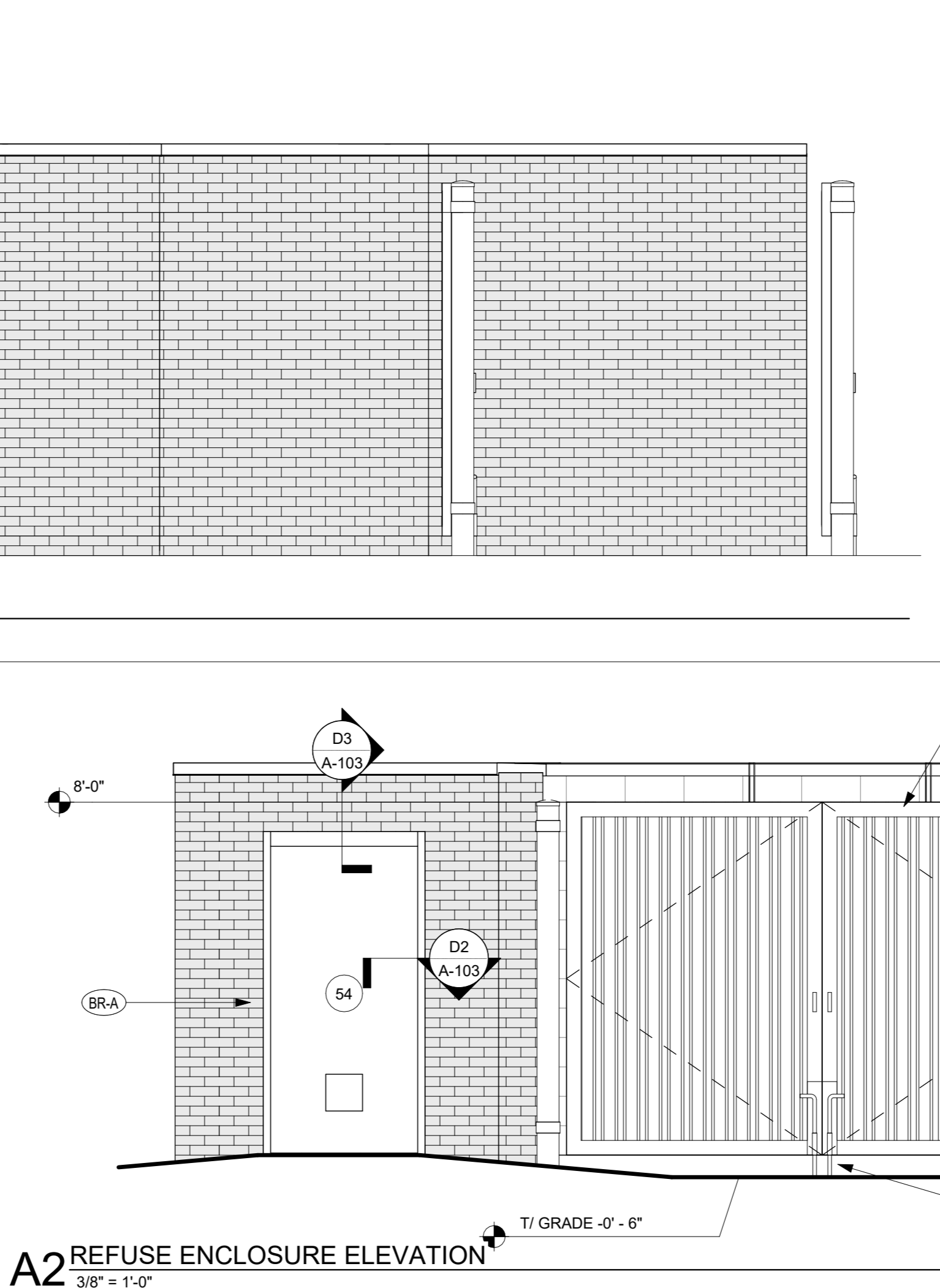
C2 REFUSE ENCLOSURE SECTION
1/2" = 1'-0"



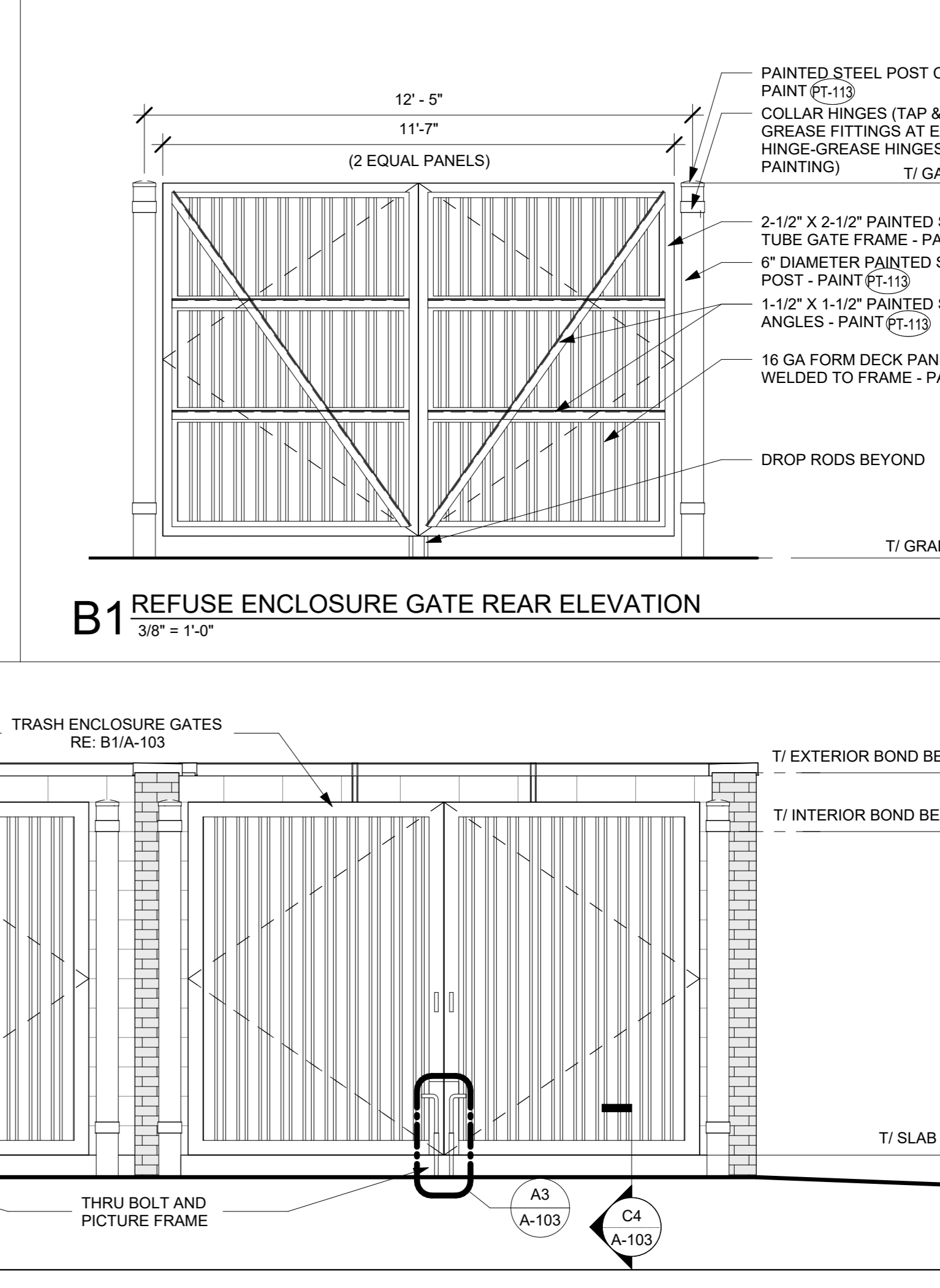
D1 REFUSE ENCLOSURE PLAN
1/4" = 1'-0"



B1 REFUSE ENCLOSURE GATE REAR ELEVATION
3/8" = 1'-0"



A2 REFUSE ENCLOSURE ELEVATION
3/8" = 1'-0"



B1 REFUSE ENCLOSURE GATE REAR ELEVATION
3/8" = 1'-0"



Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

CD
CHIPMAN DESIGN ARCHITECTURE INC
1350 E TOUHY AVE
FIRST FLOOR EAST
DES PLAINES, IL 60018
TEL: 847.298.6900

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH ALL RULES, REGULATIONS AND ORDINANCES OF FITCHBURG, WI RELATING TO STRUCTURES AND BUILDINGS.

CHICK-FIL-A
FITCHBURG FSU
NWQ OF MCKEE & FITCHRONA
FITCHBURG, WI 53719

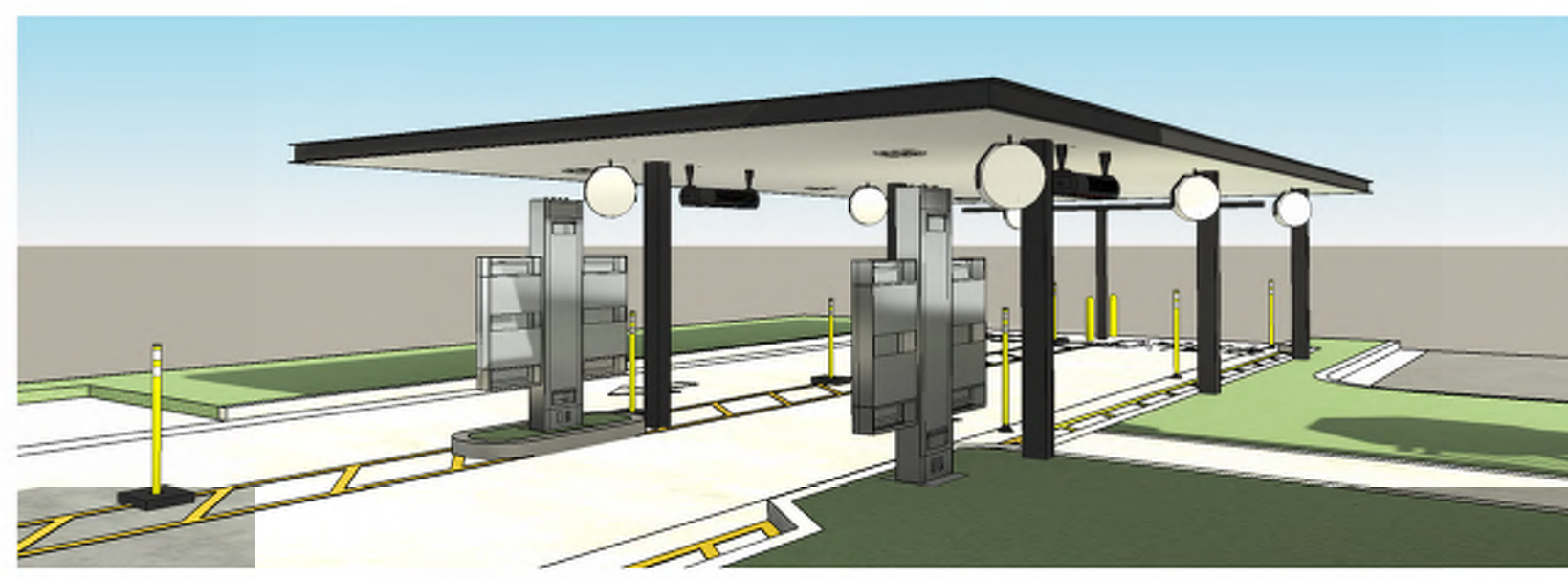
FSR#05918
BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 24.08

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

FOR REVIEW ONLY

CONSULTANT PROJECT # 24-2416.00
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SHEET REFUSE ENCLOSURE
SHEET NUMBER **A-103**

5/7/2024 6:14:22 PM Autodesk Docs://MO_04604_Raymore (MO) FSU_2024_1_FSR04604_Raymore (MO) FSU_ARC.nt 10-LE-04604-A-103-REFUSE ENCLOSURE

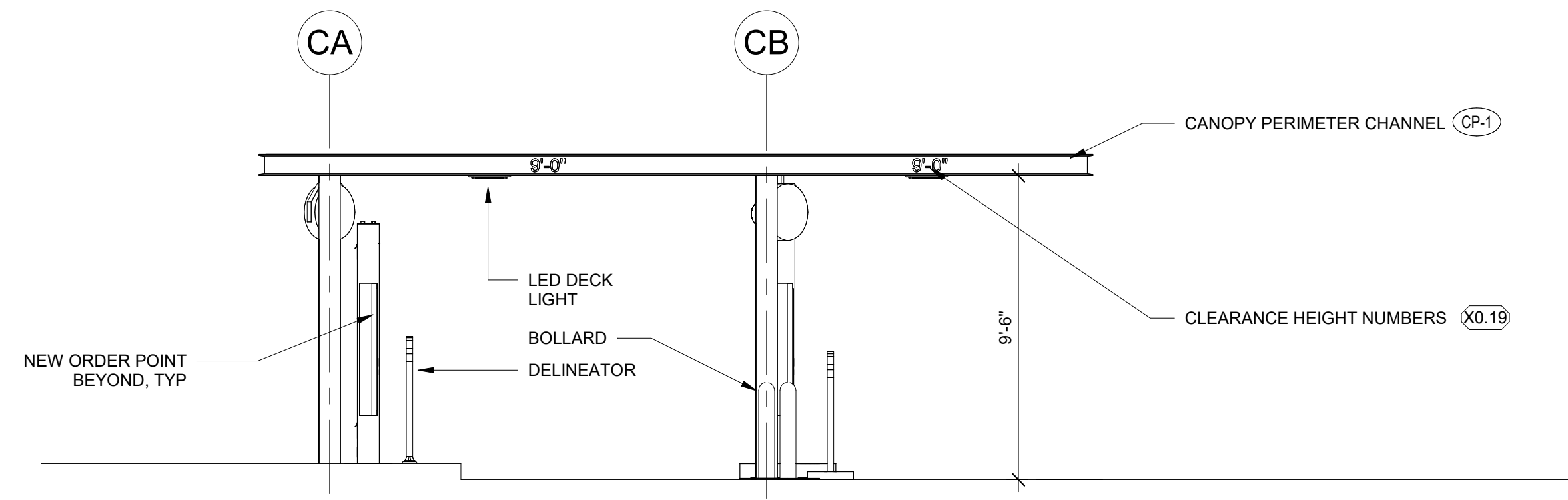


PERSPECTIVE VIEW

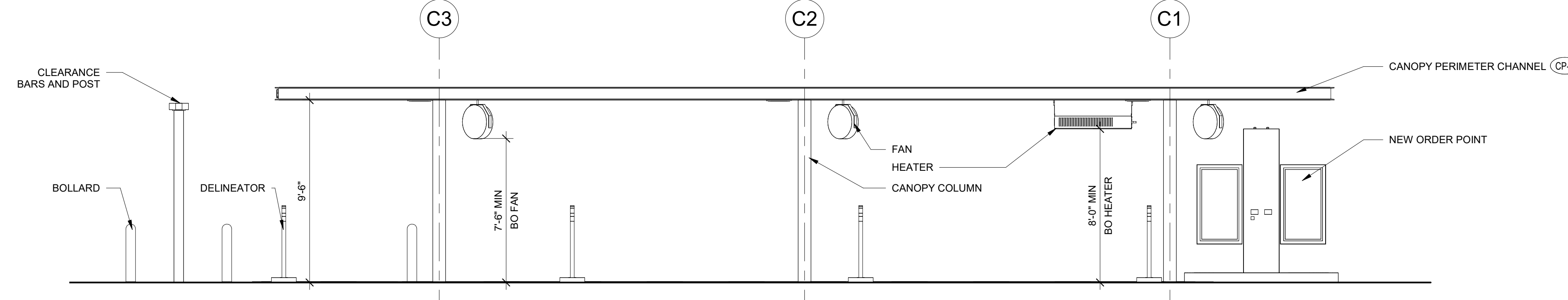
OP CANOPY FINISHES

- (CP-1) PREFINISHED METAL COLOR: DARK BRONZE
- (CP-2) METAL DECKING COLOR: WHITE

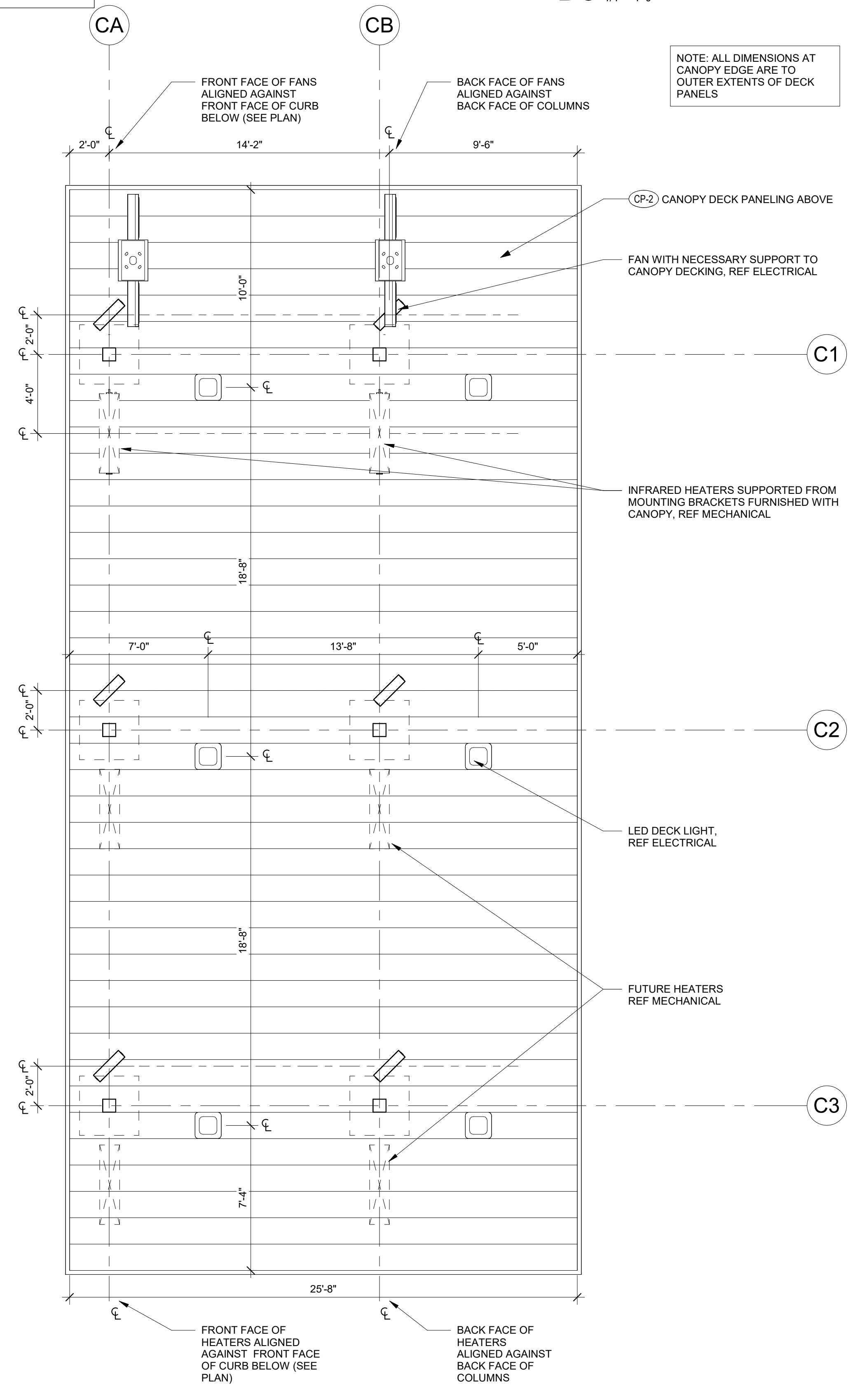
ORDER POINT EQUIPMENT SCHEDULE							
TAG	EQUIPMENT	APPLICABLE TIER	SUPPLIER	CONTACT	MANUFACTURER	MODEL NUMBER	COMMENTS
X0.3	BOLLARD SLEEVE	- X X	GC	-	INTERSTATE PRODUCTS OR EQUAL	1738YRS - EAGLE 6"	-
X0.4	OP DIGITAL MENU BOARD	- X X	PATTISON	Helene Hammond (613-247-5379) hhammond@pattisonsign.com	PATTISON	-	-
X0.6	C7 DOUBLE CLEARANCE BAR	- BY SITE BY SITE	UNISTRUCTURES OR CHANDLER SIGNS	Carolyn Ward (678-974-1759) c.ward@unistructures.com OR Kristen Hamilton, Amy McCann, or Scarlett Quintero (210-349-3804) CFA@chandlersigns.com	UNISTRUCTURES OR CHANDLER SIGNS	-	14'-6 1/2" L x 9'-0" H. See shop drawings for more information; Dark Bronze textured finish
X0.19	CLEARANCE TEXT	- X X	LANE OR FASHION	Larry Tolbert (705-545-7615) ltolbert@lanesupplyinc.com OR Jason Holmes (785-242-8111) jholmes@fashioninc.com	LANE OR FASHION	-	-



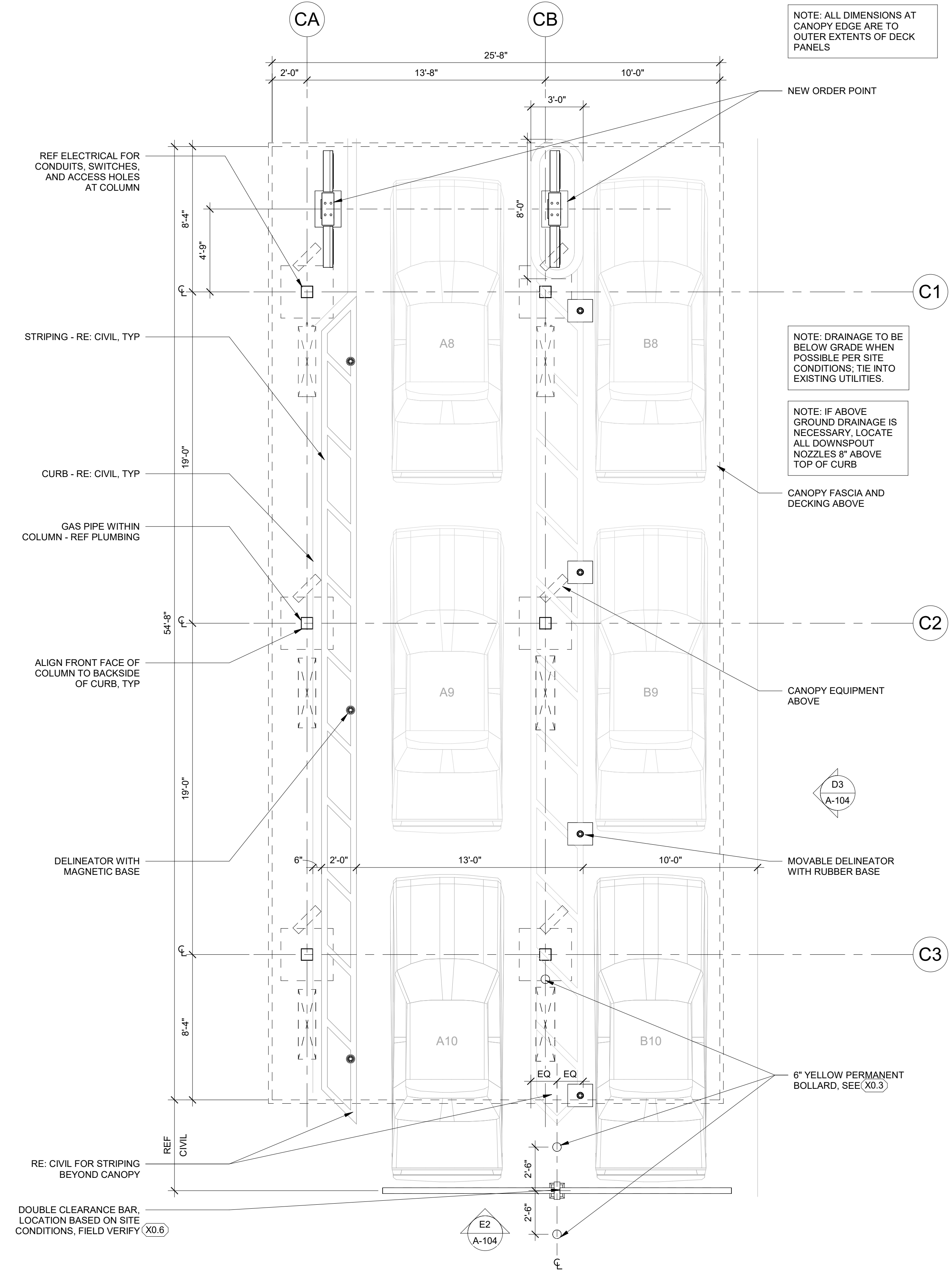
E2 ENTRY ELEVATION
1/4" = 1'-0"



D3 SIDE ELEVATION
1/4" = 1'-0"



A3 ORDER POINT CANOPY REFLECTED CEILING PLAN
1/4" = 1'-0"

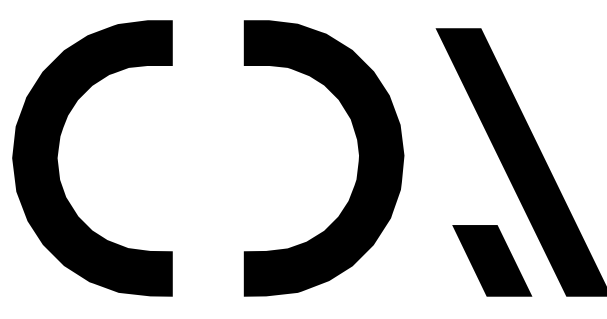


A2 ORDER POINT CANOPY PLAN
1/4" = 1'-0"



Chick-fil-A

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CHIPMAN DESIGN ARCHITECTURE INC

1350 E TOUHY AVE
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DES PLAINES, IL 60018
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HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH ALL RULES, REGULATIONS AND ORDINANCES OF FITCHBURG, WI RELATING TO STRUCTURES AND BUILDINGS.

CHICK-FIL-A
FITCHBURG FSU
NWQ OF MCKEE & FITCHRONA
FITCHBURG, WI 53719

FSR#05918

BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 24.08

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

FOR REVIEW ONLY

CONSULTANT PROJECT # 24-2416.00
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SHEET ORDER POINT CANOPY
SHEET NUMBER

A-104

10/9/2024 9:56:27 AM Autodesk Docs://WI_05918_Fitchburg_2024.4_FSR/05918_Fitchburg_ARC.rvt 10-LE-05918-A-104-ORDER POINT CANOPY

Project: _____

Fixture Type: _____

Location: _____

Contact: _____

P5713-31 Cylinder

5" downlight non-metallic wall cylinder in a Black finish.

- Black finish.
- Interior or exterior use.
- Non-corrosive components withstand salt, wind, water & sun damage.
- Ideal for coastal locations.

Category: Outdoor

Finish: Black (Powder Coat Paint)

Construction: polycarbonate Construction

Width: 5 in
Height: 14 in
Depth: 7-3/4 in
H/CTR: 7 in



MOUNTING	ELECTRICAL	LAMPING	ADDITIONAL INFORMATION
Wall mounted	Prewired	Quantity:	UL-CUL Damp Location Listed
Mounting strap for outlet box included	6 inches of wire supplied	two 65 W max. BR-30 or LED equivalent	1-year Limited Warranty
back plate covers a standard 4" recessed outlet box: 4.5" W.,	120 V	E26 base ceramic sockets	

FLL LED FLOODLIGHT

Cat.#

Job

Type



HUBBELL
Outdoor Lighting

Approvals

SPECIFICATIONS

Intended Use:

Large LED flood with beam distribution for lighting applications such as safety/security, facade, area, or signs

Construction:

- Corrosion resistant, rugged die-cast aluminum housing with powder coat paint finish
- Tempered glass lens protects LEDs and allows for cleaning/debris removal
- Vented housing isolates LED module from driver, maximizing product life and performance
- Visor, louver and vandal accessories available

LED:

- 28 high power LED's (Stock/MTO)
- 42 high power LED's (MTO)
- 140 high power LED's (Stock)
- Ambient operating temperature -35°C to 40°C
- Stock Versions: 4000K and 5000K CCT
- MTO Versions: 3000K nominal with 80 CRI, 4000K and 5000K CCT nominal with 70 CRI

Optical/Electrical:

- Variety of NEMA distributions - N (3x3), M (4x4), RM (5x4) and W (6x6) - for wide range of lighting applications; Stock version Wide (6x6) only
- 120-277V operation, 50/60Hz, 95W, 1050mA, 100 LPW (Stock/MTO - 28LED)
- 120-277V operation, 50/60Hz, 150W, 158mA, 98 LPW (Stock only - 140LED)

Optical/Electrical (Cont.)

- 120-277V, 347V, and 480V operation, 50/60Hz, 95W, 700mA, up to 119 LPW (MTO only - 42LED)
- IP65 fixture, Driver IP66 and RoHS compliant
- 10KV surge protector comes standard
- 0-10V dimming driver standard, continuous dimming option to have leads pulled out for easy connection

Installation:

- Knuckle mount 15' aiming angle increments for precise aiming and control, fits 2-3/8" tenons or pipes
- Heavy duty steel yoke with adjustable stainless steel hardware, mounting holes for one center - 3/4" bolt or two side - 3/8" bolts
- 3' SE00W cord with yoke mount

Listings:

- IP65, Listed to UL1598 for use in wet locations.
- DLC Qualified (4000K and 5000K models only); Consult DLC website for more details: <https://www.designlights.org/QPL>
- EPA = 1.0ft²

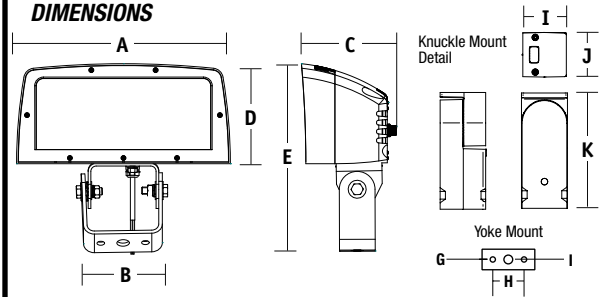
Warranty:

For more information visit:
<http://www.hubbellighting.com/resources/warranty/>

PRODUCT IMAGE(S)



DIMENSIONS



A	B	C	D	E	F	G	H	I	J	K
14.9"	5.5"	6.0"	7.0"	14.57"	17/32"	7/8"	3-1/8"	3.0"	2.9"	7.57"
378mm	140mm	152mm	177mm	370mm	14mm	22mm	79mm	77mm	75mm	192mm

SHIPPING INFORMATION

Catalog Number	G.W.(kg)/CTN	Carton Dimensions		
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)
FLL (Single Carton)	25 (12.3) lbs	17.72" (45)	13.0" (33)	10.00" (25.5)

Carton dimensions for shipping purposes only

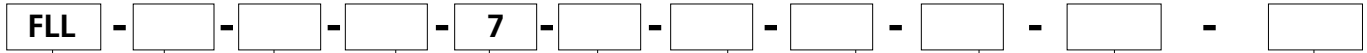
CERTIFICATIONS/LISTINGS



ORDERING INFORMATION - STOCK VERSION

Catalog Number	Mount	Max Candle Power	Beam Pattern	Wattage	# Drivers/ Current	Voltage	Color Temperature/ CRI	Lumens	LPW	Weight lbs. (kg)	Finish
FLL-95-Y	Yoke	7789	Wide	97w	1@700mA	120-277V	5000K/70	10600	109	20 (9.0)	Bronze
FLL-95-4K-Y	Yoke	7265	Wide	97w	1@700mA	120-277V	4000K/70	10173	105	20 (9.0)	
FLL-150-4K-U-Y	Yoke	5627	Wide	150w	1@158mA	120-277V	4000K/80	14665	98	20 (9.0)	
FLL-150-5K-U-Y	Yoke	5731	Wide	150w	1@158mA	120-277V	5000K/80	14764	98.4	20 (9.0)	
FLL-150-4K-U-K	Knuckle	5627	Wide	150w	1@158mA	120-277V	4000K/80	14665	98	20 (9.0)	
FLL-150-5K-U-K	Knuckle	5731	Wide	150w	1@158mA	120-277V	5000K/80	14764	98.4	20 (9.0)	

ORDERING INFORMATION - MADE TO ORDER



FAMILY	# LEDS	WATTS	CCT	CRI	DISTRIBUTION	VOLTAGE	MOUNTING	FINISH	CONTROL OPTION	OPTIONS	
FLL	FACTOR	28L 28 LED	95 95W	3K 3000K	7 70 CRI	N 3x3	U 120V-277V	K Knuckle	DB Bronze	PC Photocontrol (voltage specified and determined by voltage field)	F Fusing 120 or 277V only (determined by voltage field)
	Flood Large	42L 42 LED		4K 4000K		M 4x4	1 120V	Y Yoke	BL Black		
				5K 5000K		RM 5x4	2 208V		WH White	CD Continuous dimming	
						W 6x6	3 240V		GR Gray		
							4 277V		PS Platinum silver		
							5 ¹ 480V		CC Custom Color		
							F ¹ 347V				

¹ 42L only



Hubbell Outdoor Lighting • 701 Millennium Boulevard • Greenville, SC 29607 • Phone: 864-678-1000

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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ACCESSORIES & REPLACEMENT PARTS - Order Separately

Catalog Number	Description
FLL-VISOR-DB	Bronze top visor (Tap holes in lens frame for field installation)
93053186	FLL28, 95w, 120-277V Dimming driver, 1050mA (1 Qty)
93053187	FLL140, 95w, 120-277V Dimming driver, 700mA (1 Qty)
FLL-LOUVER-BL	Black adjustable louver
ARF-SPC	Polycarbonate vandal shield
4024C	Steel slipfitter for 2" pipe, 2 3/8" OD yoke mount, bronze finish
4040	Heavy-duty steel wall/pole bracket, bronze Lektrocote®



FLL-LOUVER-BL



ARF-SPC



FLL-VISOR-XX

PERFORMANCE DATA - Stock

# OF LEDS	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS	DISTRIBUTION TYPE	4K (4000K nominal)				5K (5000K nominal)			
				NEMA	LUMENS	LPW	MAX BEAM CANDLEPOWER	LUMENS	LPW	MAX BEAM CANDLEPOWER	
28	1050mA	95W	W	6 x 6	8992	94.5	6805	9557	100.6	6935	
140	158mA	150W	W	7 x 7	14665	98	5627	14764	98.4	5731	

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment, application and inherent performance tolerances of the electrical components.

PERFORMANCE DATA - MTO

# OF LEDS	DRIVE CURRENT	SYSTEM WATTS	DIST. TYPE	NEMA	FIELD ANGLE H° X V°	5K (5000K nominal, 70 CRI)			4K (4000K nominal, 70 CRI)			3K (3000K nominal, 80 CRI)		
						LUMENS	LPW ¹	MAX BEAM CANDLEPOWER	LUMENS	LPW ¹	MAX BEAM CANDLEPOWER	LUMENS	LPW ¹	MAX BEAM CANDLEPOWER
28	1050mA	95W	W	6 x 6	107° x 107°	9557	100.6	6935	-	-	-	-	-	-
42	700mA	97W	N	3 x 3	32° x 32°	10860	114	91770	10263	108	85000	7473	80	63093
			M	4 x 4	53° x 53°	11400	119	46836	10335	108	33566	7654	81	26201
			RM	5 x 5	84° x 86°	9806	102	17388	8889	93	14733	6702	71	11395
			W	6 x 6	107° x 107°	10967	113	8024	10173	105	7265	7694	79	5475

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

PROJECTED LUMEN MAINTENANCE

AMBIENT TEMP.	OPERATING HOURS - FLL-28L					
	0	25,000	50,000	¹ TM-21-11 60,000	100,000	Calculated L70 (HOURS)
25°C / 77°F	1.00	0.94	0.91	0.88	0.79	>149,000
40°C / 104°F	1.00	0.92	0.90	0.87	0.76	>132,000

Nichia 219B, 1080mA, 85°C

AMBIENT TEMP.	OPERATING HOURS - FLL-42L					
	0	25,000	50,000	¹ TM-21-11 60,000	100,000	Calculated L70 (HOURS)
25°C / 77°F	1.00	0.98	0.96	0.96	0.94	>625,000
40°C / 104°F	1.00	0.96	0.94	0.93	0.90	>435,000

AMBIENT TEMP.	OPERATING HOURS - FLL-150					
	0	25,000	50,000	¹ TM-21-11 60,000	100,000	Calculated L70 (HOURS)
25°C / 77°F	1.00	0.96	0.94	0.93	0.89	>331,000
40°C / 104°F	1.00	0.95	0.92	0.90	0.85	>237,000

Nichia NFSL757DT-V1, 150mA, 85°C

ELECTRICAL DATA

# OF LEDS	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	CURRENT (Amps)	SYSTEM POWER (W)
28	1	1050mA	120	0.82	95
			277	0.36	95
42	1	700mA	120	.80	96
			277	.35	96
140	1	158mA	120	1.25	150
			277	0.54	150

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

AMBIENT TEMPERATURE	LUMEN MULTIPLIER
0°C	1.02
10°C	1.01
20°C	1.00
25°C	1.00
30°C	1.00
40°C	0.99

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Project		Catalog #		Type	
Prepared by		Notes		Date	



Lumark

PRV / PRV-XL Prevail LED

Area / Site Luminaire

Typical Applications

Outdoor • Parking Lots • Walkways • Roadways • Building Areas

Interactive Menu

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

Product Certifications



Product Features

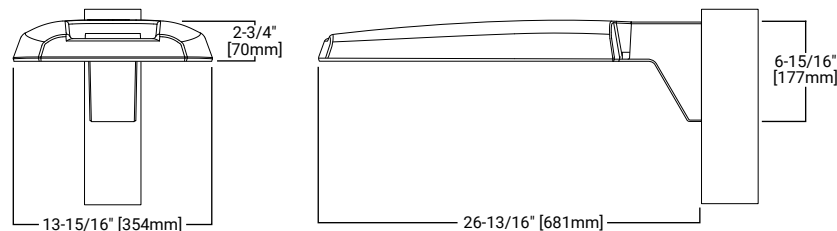


Quick Facts

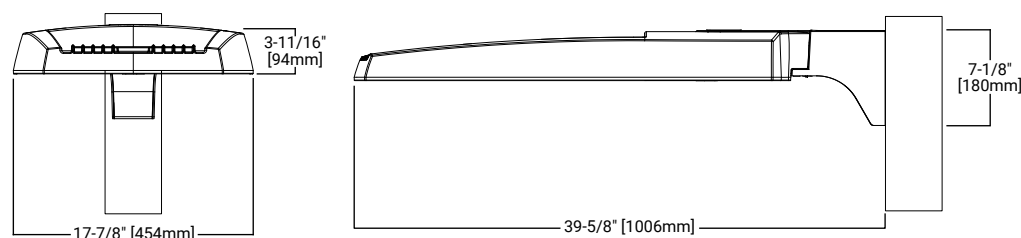
- Lumen packages range from 7,100 - 48,600 lumens (50W - 350W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 148 lumens per watt
- Energy and maintenance savings up to 85% versus HID solutions
- Standard universal quick mount arm with universal drill pattern

Dimensional Details

Prevail



Prevail XL



Ordering Information

SAMPLE NUMBER: PRV-XL-C75-D-UNV-T4-SA-BZ


Product Family 1,2	Light Engine 3	Driver	Voltage	Distribution	Mounting (Included)	Color
PRV=Prevail	C15=(1 LED) 7,100 Nominal Lumens C25=(2 LEDs) 13,100 Nominal Lumens C40=(2 LEDs) 17,100 Nominal Lumens C60=(2 LEDs) 20,000 Nominal Lumens	D=Dimming (0-10V)	UNV=Universal (120-277V) 347=347V 480=480V 4	T2=Type II T3=Type III T4=Type IV T5=Type V	SA=Standard Versatile Arm MA=Mast Arm WM=Wall Mount Arm	AP=Crey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White CC=Coastal Construction
PRV-XL=Prevail XL	C75=(4 LED) 26,100 Nominal Lumens C100=(4 LED) 31,000 Nominal Lumens C125=(4 LED) 36,000 Nominal Lumens C150=(6 LED) 41,100 Nominal Lumens C175=(6 LED) 48,600 Nominal Lumens					

Options (Add as Suffix)	Accessories (Order Separately) 18
<p>7030=70 CRI / 3000K CCT 5 7050=70 CRI / 5000K CCT 5 HSS=House Side Shield 6 L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right 10K=10kV UL 1449 Fused Surge Protective Device 20MSP=20kV MOV Surge Protective Device 20K=20kV UL 1449 Fused Surge Protective Device HA=50°C High Ambient Temperature 7 PER=NEMA 3-PIN Twistlock Photocontrol Receptacle PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle MSP/DIM-L12=Integrated Sensor for Dimming Operation, 8' - 12' Mounting Height 8,9 MSP/DIM-L30=Integrated Sensor for Dimming Operation, 12' - 30' Mounting Height 8,9 MSP-L12=Integrated Sensor ON/OFF Operation, 8' - 12' Mounting Height 8,9 MSP-L30=Integrated Sensor ON/OFF Dimming Operation, 12' - 30' Mounting Height 8,9 MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height 9,10 MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height 9,10 MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height 9,10 MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height 9,10 ZD=DALI-enabled 4-PIN Twistlock Receptacle 9,11,12 ZW=Wavelinx-enabled 4-PIN Twistlock Receptacle 9,11,12 SWPD4XX=Wavelinx Wireless Sensor, 7' - 15' Mounting Height 9,11,12,13,14 SWPD5XX=Wavelinx Wireless Sensor, 15' - 40' Mounting Height 9,11,12,13,14 LWR-LW=Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Height 9,15 LWR-LN=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height 9,15 (See Table Below)=LumenSafe Integrated Network Security Camera 16,17</p>	<p>PRVWM-XX=Wall Mount Kit 8 PRVMA-XX=Mast Arm Mounting Kit 8 PRVSA-XX=Standard Arm Mounting Kit 8 PRVXLSA-XX=Standard Arm Mounting Kit (for Prevail XL) 16 PRVXLWM-XX=Wall Mount Kit (for Prevail XL) 16 PRVXLMA-XL=Mast Arm Mounting Kit (for Prevail XL) 16 MA1010-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1011-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon MA1017-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1018-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon HS/VERD=House Side Shield 6,19 VGS-F/B=Vertical Glare Shield, Front/Back 19 VGS-SIDE=Vertical Glare Shield, Side 19 OA/RA1013=Photocontrol Shorting Cap OA/RA1014=NEMA Photocontrol - 120V OA/RA1016=NEMA Photocontrol - Multi-Tap 105-285V OA/RA1201=NEMA Photocontrol - 347V OA/RA1027=NEMA Photocontrol - 480V ISHH-01=Integrated Sensor Programming Remote 20 FSIR-100=Wireless Configuration Tool for Occupancy Sensor 21 SWPD4-XX=Wavelinx Wireless Sensor, 7' - 15' Mounting Height 12,13,14 SWPD5-XX=Wavelinx Wireless Sensor, 15' - 40' Mounting Height 12,13,14 WOLC-7P-10A=Wavelinx Outdoor Control Module (7-PIN) 22</p>

NOTES:

- DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications. Refer to installation instructions and pole white paper WP513001EN for additional support information.
- Standard 4000K CCT and 70CRI.
- 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).
- Use dedicated IES files on product website for non-standard CCTs.
- Option will come factory-installed. House Side Shield not suitable with T5 distribution or C60 lumen package.
- Not available with C60 lumen package.
- Only available in PRV configurations C15, C25, C40 or C60.
- Controls system is not available with photocontrol receptacle (PER or PER7) or other controls systems (MS, MSP, ZW, ZD or LWR).
- Utilizes the Wattstopper sensor FSP-211.
- Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F).
- For the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinX system and software and requires system components to be installed for operation. See website for more Wavelinx application information.
- Replace XX with sensor color (WH, BZ, or BK).
- Requires 4-PIN twistlock receptacle (ZD or ZW) option.
- Enlighted wireless sensors are factory installed and require network components LWP-EM-1, LWP-GW-1, and LWP-PoE8 in appropriate quantities. See website for application information.
- Only available in PRV-XL configurations C75, C100, C125, C150, or C175.
- Not available with 347V, 480V, or HA options. Consult LumenSafe system product pages for additional details and compatibility information.
- Replace XX with paint color.
- Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 4, or 6).
- This tool enables adjustment to Integrated Sensor (MSP) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
- This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
- Requires 7-PIN NEMA twistlock photocontrol receptacle (PER7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS, MSP, ZW, ZD or LWR). Operates on 120-347V input voltages.

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

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

Stock Ordering Information

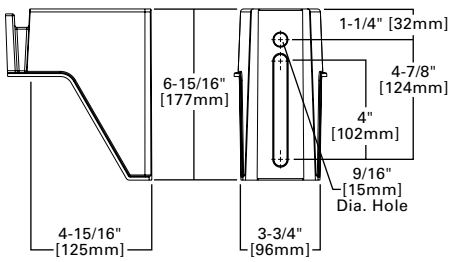
Product Family 1	Light Engine	Voltage	Distribution	Options (Add as Suffix)
PRVS=Prevail	C15=(1 LED) 7,100 Nominal Lumens C25=(2 LEDs) 13,100 Nominal Lumens C40=(2 LEDs) 17,100 Nominal Lumens C60=(2 LEDs) 20,000 Nominal Lumens	UNV=Universal (120-277V) 347=347V 2	T3=Type III T4=Type IV	MSP/DIM-L30=Integrated Sensor for Dimming Operation, Maximum 30' Mounting Height 2
PRVS-XL=Prevail XL	C75=(4 LED) 26,100 Nominal Lumens C100=(4 LED) 31,000 Nominal Lumens C125=(4 LED) 36,000 Nominal Lumens C150=(6 LED) 41,100 Nominal Lumens C175=(6 LED) 48,600 Nominal Lumens			

NOTES:

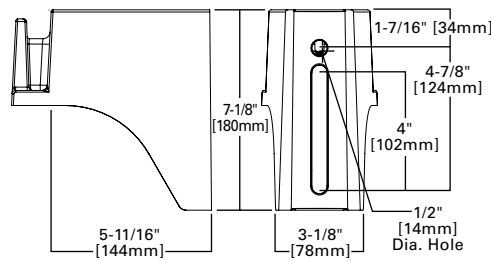
- All stock configurations are standard 4000K/70CRI, bronze finish, and include the standard versatile mounting arm.
- Only available in PRVS configurations C15, C25, C40 or C60.

Mounting Details

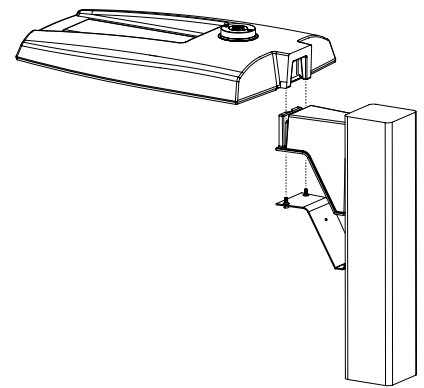
Pole Mount Arm (PRV)



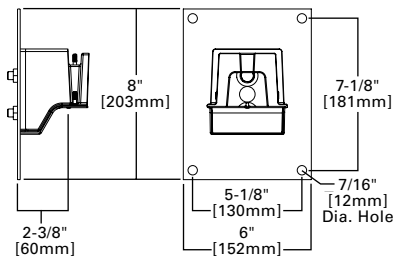
Pole Mount Arm (PRV-XL)



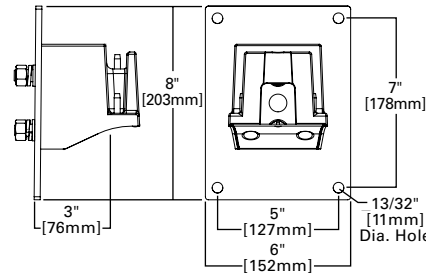
Versatile Mount System



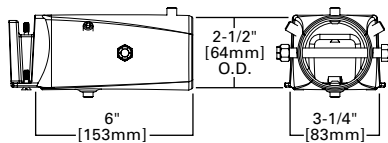
Wall Mount (PRV)



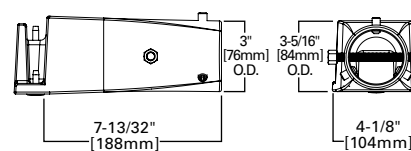
Wall Mount (PRV-XL)



Mast Arm Mount (PRV)



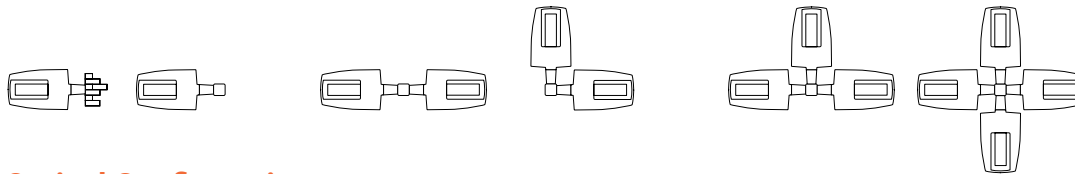
Mast Arm Mount (PRV-XL)



Mounting Configurations and EPAs

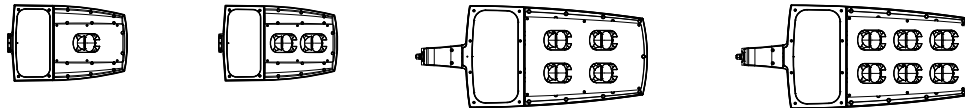
NOTE: For 2 PRV's mounted at 90°, requires minimum 3" square or 4" round pole for fixture clearance. For 2 PRV-XL's mounted at 90°, requires minimum 4" square or round pole for fixture clearance. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications.

Wall Mount	Arm Mount Single	Arm Mount 2 @ 180°	Arm Mount 2 @ 90°	Arm Mount 3 @ 90°	Arm Mount 4 @ 90°
	EPA 0.92 (PRV) EPA 1.12 (PRV-XL)	EPA 1.35 (PRV) EPA 2.25 (PRV-XL)	EPA 1.42 (PRV) EPA 2.13 (PRV-XL)	EPA 1.63 (PRV) EPA 2.52 (PRV-XL)	EPA 1.63 (PRV) EPA 2.52 (PRV-XL)



Optical Configurations

PRV-C15	PRV-C25/C40/C60	PRV-XL-C75/C100/C125	PRV-XL-C150/C175
(7,100 Nominal Lumens)	(13,100/17,100/20,000 Nominal Lumens)	(26,100/31,000/36,300 Nominal Lumens)	(41,100/48,600 Nominal Lumens)



Product Specifications

Construction

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

Optics

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

Electrical

- -40°C minimum operating temperature
- 40°C maximum operating temperature
- >.9 power factor
- <20% total harmonic distortion

- Class 1 electronic drivers have expected life of 100,000 hours with <1% failure rate
- 0-10V dimming driver is standard with leads external to the fixture

Mounting

- Versatile, patented, standard mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8"
- A knock-out on the standard mounting arm enables round pole mounting
- Prevail: 3G vibration rated
- Prevail XL Mast Arm: 3G vibration rated
- Prevail XL Standard Arm: 1.5G vibration rated

Finish

- Five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness

Shipping Data

- Prevail: 20 lbs. (9.09 kgs.)
- Prevail XL: 45 lbs. (20.41 kgs.)

Energy and Performance Data

Power and Lumens (PRV)

 [View PRV IES files](#)

Light Engine	C15	C25	C40	C60	
Power (Watts)	52	96	131	153	
Input Current @ 120V (A)	0.43	0.80	1.09	1.32	
Input Current @ 277V (A)	0.19	0.35	0.48	0.57	
Input Current @ 347V (A)	0.17	0.30	0.41	0.48	
Input Current @ 480V (A)	0.12	0.22	0.30	0.35	
Distribution					
Type II	4000K Lumens	7,123	13,205	17,172	20,083
	BUG Rating	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3
	3000K Lumens	6,994	12,965	16,860	19,718
Type III	4000K Lumens	7,111	13,183	17,144	20,050
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4
	3000K Lumens	6,982	12,944	16,832	19,686
Type IV	4000K Lumens	7,088	13,140	17,087	19,984
	BUG Rating	B1-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5
	3000K Lumens	6,959	12,901	16,777	19,621
Type V	4000K Lumens	7,576	14,045	18,264	21,360
	BUG Rating	B3-U0-G3	B4-U0-G3	B4-U0-G4	B5-U0-G4
	3000K Lumens	7,438	13,790	17,932	20,972

Lumen Maintenance

Configuration	TM-21 Lumen Maintenance (50,000 Hours)	Theoretical L70 (Hours)
Up to PRV-C60 at 25°C	91.30%	194,000
Up to PRV-C60 at 40°C	87.59%	134,000
Up to PRV-XL-C175 at 25°C	91.40%	204,000
Up to PRV-XL-C175 at 40°C	89.41%	158,000

Lumen Multiplier

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

Power and Lumens (PRV-XL)

 [View PRV-XL IES files](#)

Light Engine	C75	C100	C125	C150	C175	
Power (Watts)	176	217	264	285	346	
Input Current @ 120V (A)	1.50	1.84	2.21	2.38	2.92	
Input Current @ 277V (A)	0.66	0.82	0.97	1.04	1.25	
Input Current @ 347V (A)	0.54	0.66	0.79	0.84	1.02	
Input Current @ 480V (A)	0.40	0.48	0.57	0.62	0.74	
Distribution						
Type II	4000K Lumens	26,263	31,231	36,503	41,349	48,876
	BUG Rating	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5
	3000K Lumens	25,786	30,664	35,840	40,598	47,989
Type III	4000K Lumens	26,120	31,061	36,304	41,124	48,610
	BUG Rating	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	3000K Lumens	25,646	30,497	35,645	40,377	47,727
Type IV	4000K Lumens	26,098	31,035	36,274	41,089	48,569
	BUG Rating	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	3000K Lumens	25,624	30,471	35,615	40,343	47,687
Type V	4000K Lumens	28,129	33,450	39,097	44,287	52,349
	BUG Rating	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	3000K Lumens	27,618	32,843	38,387	43,483	51,398

Control Options

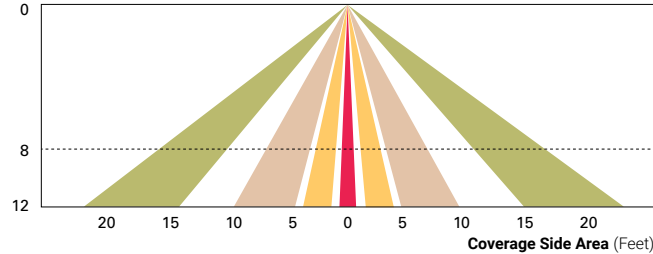
0-10V (D) The dimming option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (PER and PER7) Photocontrol receptacles provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

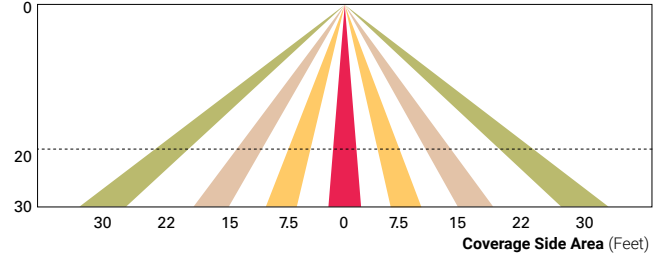
Dimming Occupancy Sensor (MSP and MS) These sensors are factory installed in the luminaire housing. When a sensor for dimming operation (/DIM) option is selected, the luminaire will dim down to approximately 50 percent power after five minutes of no activity detected. When activity is detected, the luminaire returns to full light output. When a sensor for ON/OFF operation is selected, the luminaire will turn off after five minutes of no activity.

These occupancy sensors include an integral photocell that can be activated or inactivated with the programming remote / configuration tool for "dusk-to-dawn" control or "daylight harvesting". **Note:** For MSP sensors, the factory preset is ON (Enabled), and for MS sensors, the factory preset is OFF (Disabled). The programming remote / tool is a wireless tool that can be utilized to change the dimming level, time delay, sensitivity and other parameters. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 8'-40'.

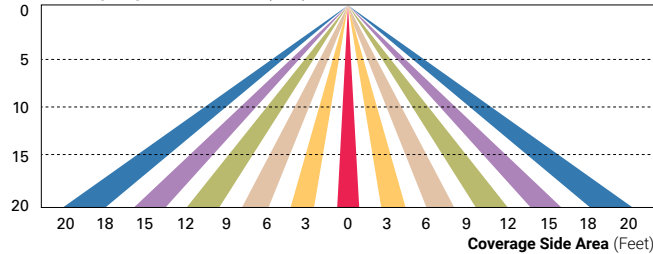
For mounting heights from 8' to 12' (-L12)



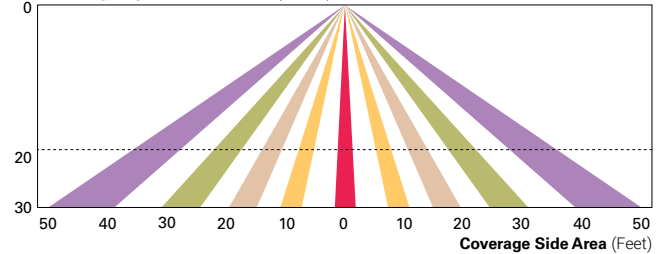
For mounting heights from 12' to 30' (-L30)



For mounting heights from 9' to 20' (-L20)



For mounting heights from 21' to 40' (-L40W)

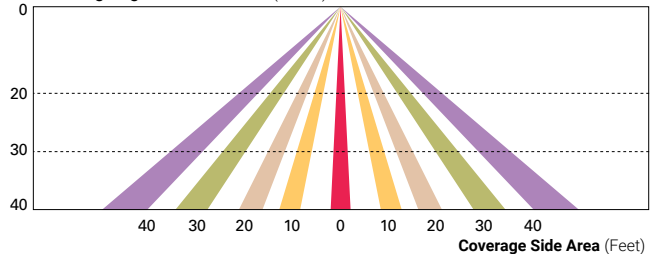


WaveLinx Wireless Control and Monitoring System Available in 7-PIN or 4-PIN configurations, the WaveLinx Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. Use the WaveLinx Mobile application for set-up and configuration.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

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

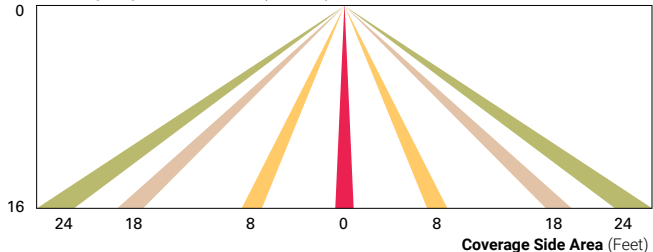
WaveLinx Wireless Sensor (SWPD4 and SWPD5) These outdoor sensors offer passive infrared (PIR) occupancy and a photocell for closed loop daylight sensing. These sensors can be factory installed or field-installed via simple, tool-less integration into luminaires equipped with the Zhaga Book 18 compliant 4-PIN receptacle (ZD or ZW). These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or daylight harvesting that is factory-enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.

For mounting heights from 16' to 40' (SWPD)

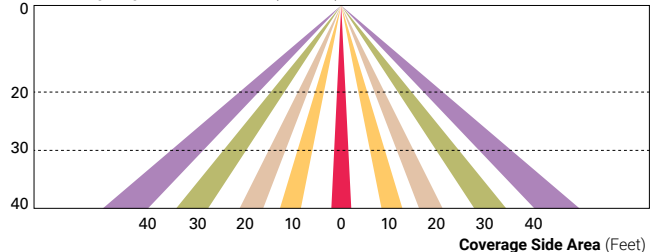


Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN) The Enlighted System is a connected lighting solution that combines LED luminaires with an integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of other resources beyond lighting.

For mounting heights from 8' to 16' (LWR-LW)



For mounting heights from 16' to 40' (LWR-LN)



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

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 - VIBRATIONS AND NON-GROUND MOUNTED INSTALLATIONS

The information contained herein is for general guidance only and is not a replacement for professional judgment. Design considerations for wind-induced vibrations and non-ground mounted installations (e.g., installations on bridges or buildings) are not included in this document. Consult with a professional, and local and federal standards, before ordering to ensure product is appropriate for the intended purpose and installation location. Refer to the Cooper Lighting Solutions Light Pole White Paper for risk factors and design considerations. [Learn more.](#)

NOTE: The Limited Warranty for this product specifically excludes fatigue failure or similar damage resulting from vibration, harmonic oscillation or resonance.

Specifications and dimensions subject to change without notice. Consult your lighting representative at Cooper Lighting Solutions or visit www.cooperlighting.com for available options, accessories and ordering information.

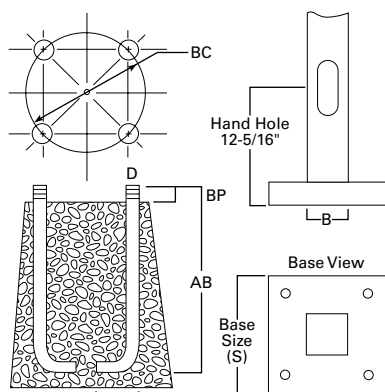
ORDERING INFORMATION

SAMPLE NUMBER: SSA5A20SFM1XG

Product Family	Shaft Size (Inches) ¹	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 ³ B=3/4" Tapped Hub ³ C=Convenience Outlet ⁴ E=GFCI Convenience Outlet ⁴ G=Ground Lug H=Additional Hand Hole ⁵ V=Vibration Dampener
	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'	
	6=6"	X=0.250"	20=20'		J=Summit White	4=4" O.D. Tenon (6" Long)	3=Triple ²	3=2.5'	
			25=25'		K=Carbon Bronze	9=3" O.D. Tenon (4" Long)	4=4 at 90°	4=4"	
			30=30'	L=Dark Platinum	6=2-3/8" O.D. Tenon (6" Long)	5=2 at 90°	6=6"		
			35=35'	R=Hartford Green	7=4" O.D. Tenon (10" Long)	X=None	8=8"		
			39=39'	S=Silver	A=Type A Drilling				
				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 ⁶				
					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. 6. Arm must be ordered separately.

ANCHORAGE DATA



See technical information.

Pole	Template Number	Bolt Number	Bolt Circle (inches)	Number of Bolts	Bolt Size (inches)
SSS4	TMP1	AB1	8.5 - 11.0	4	3/4 x 25 x 3
SSS5	TMP1	AB1	11.0	4	3/4 x 25 x 3
SSS6	TMP2	AB3	12.5	4	1 x 36 x 4

EFFECTIVE PROJECTED AREA (At Pole Top)

Mounting Height (Feet)	Catalog Number ^{1,2}	Wall Thickness (Inches)	Base Square ³ (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection ³ (Inches)	Shaft Size ³ (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) ⁴				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 ^{1,2}	Wall Thickness (Inches)	Base Square ³ (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection ³ (Inches)	Shaft Size ³ (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) ⁴				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.

VIBRATION

Vibrations may cause damage to structures, including poles. Vibrations are unpredictable, and there are many factors and variables that can cause damaging vibrations. Many wind conditions exist that can create damaging vibrations to poles and luminaires, such as constant winds between 10-30 mph. Although all pole types can experience vibration, straight square poles seem to be most prone. Vibration dampers and/or a round tapered design may be used to mitigate damage from vibrations, but there is no guarantee damaging vibrations will be prevented. Vibration dampers are not included with this pole but can be ordered separately. Consult with a professional, and local and federal standards, to ensure this pole is appropriate for the intended purpose and installation location. Refer to Cooper Lighting Solutions' Light Pole White Paper for risk factors and design considerations.

MAINTENANCE

Perform inspections periodically. A prudent inspection schedule would be: one week after installation, one month after installation, yearly after installation, and following any major wind event. During the inspection, check the poles for cracks. If cracks are detected, remedial action is required. Recheck anchor bolt torques and re-tighten according to the recommended torque values. Check for missing covers and pole caps and replace as necessary. Check the pole for corrosion and deterioration of the finish. Should there be corrosion or deterioration, take remedial action to correct.

WARNING: Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to pole white paper WP513001EN for additional support information. Before installing, make sure proper anchor bolts and templates are obtained. The use of unauthorized accessories such as banners, signs, cameras or pennants for which the pole was not designed voids the pole warranty and may result in pole failure causing serious injury or property damage. Information regarding total loading capacity can be supplied upon request. The pole warranty is void unless poles are used and installed as a complete pole and luminaire combination. This warranty specifically excludes failure as the result of a third party act or omission, misuse, unanticipated uses, fatigue failure or similar phenomena resulting from induced vibration, harmonic oscillation or resonance associated with movement of air currents around the product.

Specifications and dimensions subject to change without notice. Consult your lighting representative at Cooper Lighting Solutions or visit www.cooperlighting.com for available options, accessories and ordering information.

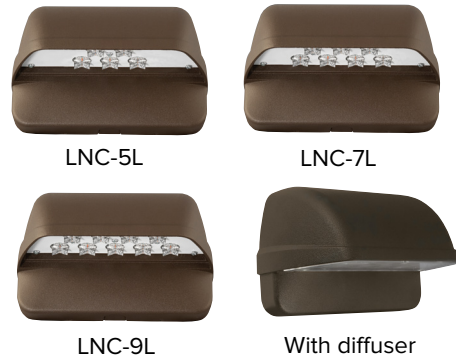
DATE: _____ LOCATION: _____
 TYPE: _____ PROJECT: _____
 CATALOG #: _____

LNC

COMPACT LED LITEPAK

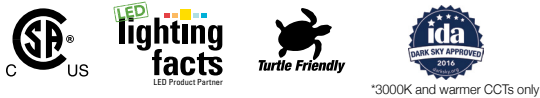
FEATURES

- Compact LNC LED is designed for perimeter illumination and available in 3 lumen packages for safety, security and identity
- 3000K, 4000K, 5000K and Amber color temperatures
- Up to 4:1 spacing to mounting height ratio means fewer fixtures to install
- Acrylic diffuser included! Use for applications near entrances or locations where reduced brightness is desired. (Maximum spacing with diffuser 30ft)
- Die-cast aluminum housing with decorative Laredo styling
- Full cut-off neighbor friendly
- Listed to UL1598 for use in wet locations



RELATED PRODUCTS

- [LNC2](#) [INC3](#) [LNC4](#)



SPECIFICATIONS

CONSTRUCTION

- Decorative die-cast aluminum housing and door
- Rugged design protects internal components and provides excellent thermal management for long life
- Powder paint finishes provide lasting appearance in outdoor environments
- Full cut-off distribution; Ambient diffuser included, use for applications near entrances or locations where reduced brightness is desired

OPTICS

- Drivers are 120-277V, 50/60Hz Type II, III and Type IV lenses provide wide lateral spread
- 3000K - 80 CRI, 4000K - 70 CRI, and 5000K - 70 CRI, CCT nominal
- Drivers have greater than .90 power factor and less than 20% Total Harmonic Distortion

INSTALLATION

- Quick mount adapter provides quick installation, designed for recessed box 4" square junction box

ELECTRICAL

- 60,000 hours minimum LED life at L96 rating per IESNA TM-21-11
- Minimum operating temperature is -40°C/-40°F
- 0-10V dimming 120-277V only
- LNC5L – 5 LEDs, Types II, III or IV available, see page 2 for electrical details
- LNC7L – 7 LEDs, Type II, III or IV available, see page 2 for electrical details
- LNC9L – 9 LEDs, Types II, III or IV available, see page 2 for electrical details

CONTROLS

- Photocontrol option is available to provide dusk-to-dawn control for additional energy savings

CERTIFICATIONS

- Listed and labeled to UL 1598 for wet locations, 25°C ambient environments

WARRANTY

- 5 year limited warranty
- See [HLI Standard Warranty](#) for additional information

KEY DATA	
Lumen Range	800–2100
Wattage Range	13–22
Efficacy Range (LPW)	64–95
Fixture Projected Life (Hours)	L96>60K
Weights lbs. (kg)	9.6 (24.5)

LNC

COMPACT LED LITEPAK

ORDERING GUIDE

Example: LNC-5L-U-3K-2-BLT-PCU

CATALOG #

ORDERING INFORMATION

Series	# LEDs	Voltage	CCT/CRI	IES Distribution	Finish	Mounting
LNC LNC Zero Uplight	5L 5 LEDs	U 120-277V	3K 3000K nominal, 70 CRI	2 Type II	BLT Black Matte Textured	PCU Universal Button Photocell
	7L 7 LEDs	1 120V	4K 4000K nominal, 70 CRI	3 Type III	BLS Black Gloss Smooth	
	9L 9 LEDs	2 208V 3 240V 4 277V	5K 5000K nominal, 70 CRI AM Amber (590 μm available for "Turtle Friendly"/ observatory applications, 350mA (consult factory) ¹)	4 Type IV	DBT Dark Bronze Matte Textured DBS Dark Bronze Gloss Smooth GTT Graphite Matte Textured LGS Light Grey Gloss Smooth PSS Platinum Silver Smooth WHT White Matte Textured WHS White Gloss Smooth VGT Verde Green Textured	
					Color Option	
					CC Custom Color	

Notes:

1 Amber LEDs only available on 7L and 9L configurations, 350mA

REPLACEMENT PARTS AND ACCESSORIES

Catalog Number	Description
<input type="checkbox"/> 93039574	Frosted comfort shield, improved uniformity with only 5% reduction

PERFORMANCE DATA

# Of LEDs	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)		4K (4000K NOMINAL 70 CRI)		3K (3000K NOMINAL 80 CRI)		AM (<580 nm wave-length)		
				Lumens	LPW*	Lumens	LPW	Lumens	LPW	Lumens	System Watts	LPW*
5	STD. (700mA) AM (350mA)	13W	2	1,150	88.5	1,052	81	883	68	-	-	-
			3	1,132	87	1,077	83	833	64	-	-	-
			4	1,146	88	1,053	81	849	65	-	-	-
7	STD. (700mA) AM (350mA)	17W	2	1,515	89	1,369	80.5	1,272	75	-	-	-
			3	1,500	88	1,539	90.5	1,392	82	268	6.6	59
			4	1,557	91.5	1,535	90	1,425	84	-	-	-
9	STD. (700mA) AM (350mA)	22W	2	2,069	94	2,033	92	1,588	72	-	-	-
			3	2,024	92	1,989	90	1,623	74	-	-	-
			4	2,095	95	2,059	93.5	1,680	76	382	8.3	46

* Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application. Please consult IES files for BUG ratings.

PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					
	0	25,000	50,000	TM-21-11* L96 60,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.97	0.97	0.96	0.95	>791,000
40°C / 104°F	0.99	0.96	0.96	0.96	0.94	>635,000

* Projected per IESNA TM-21-11* (Nichia 219B, 700mA, 85°C Ts, 10,000hrs) Data references the extrapolated performance projections for the LNC-12LU-5K base model in a 40°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08

LNC

COMPACT LED LITEPAK

ELECTRICAL DATA

# OF LEDS	Drive Current (mA)	Input Voltage (V)	Oper. Current (Amps)	System Power (W)
9	STD. (700mA)	120	0.11	13
		277	0.05	
12	STD. (700mA)	120	0.14	17
		277	0.07	
12	STD. (700mA)	120	0.17	22
		277	0.09	

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

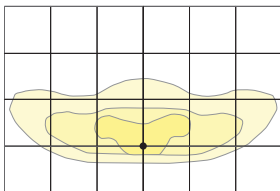
Ambient Temperature		Lumen Multiplier
0° C	32° F	1.02
10° C	50° F	1.01
20° C	68° F	1.00
25° C	77° F	1.00
30° C	86° F	1.00
40° C	104° F	0.99
50° C	122° F	0.98

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

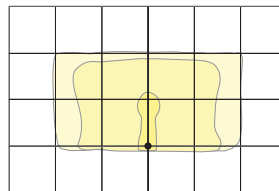
PHOTOMETRY

The following diagrams represent the general distribution options offered for this product. For detailed information on specific product configurations, see [website photometric test reports](#).

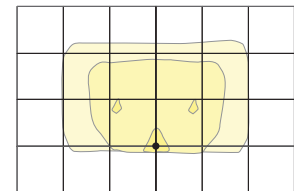
LNC9LU – Type II



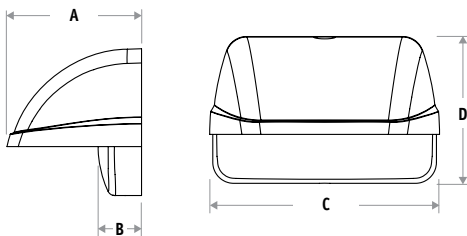
LNC9LU – Type III



LNC9LU – Type IV



DIMENSIONS



A	B	C	D
4.81" (122 mm)	1.55" (39 mm)	8.22" (209 mm)	5.25" (133 mm)

ADDITIONAL INFORMATION

SHIPPING INFORMATION

Catalog Number	G.W(kg)/CTN	Carton Dimensions			Carton Qty. per Master Pack
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)	
LNC-5LU	9.6 (4.36)	14.5 (37)	9.6 (24.5)	6.8 (17.5)	2
LNC-7LU	9.6 (4.36)	14.5 (37)	9.6 (24.5)	6.8 (17.5)	2
LNC-9LU	9.6 (4.36)	14.5 (37)	9.6 (24.5)	6.8 (17.5)	2

USE OF TRADEMARKS AND TRADE NAMES

All product and company names, logos and product identifies are trademarks™ or registered trademarks® of Hubbell Lighting, Inc. or their respective owners. Use of them does not necessarily imply any affiliation with or endorsement by such respective owners.



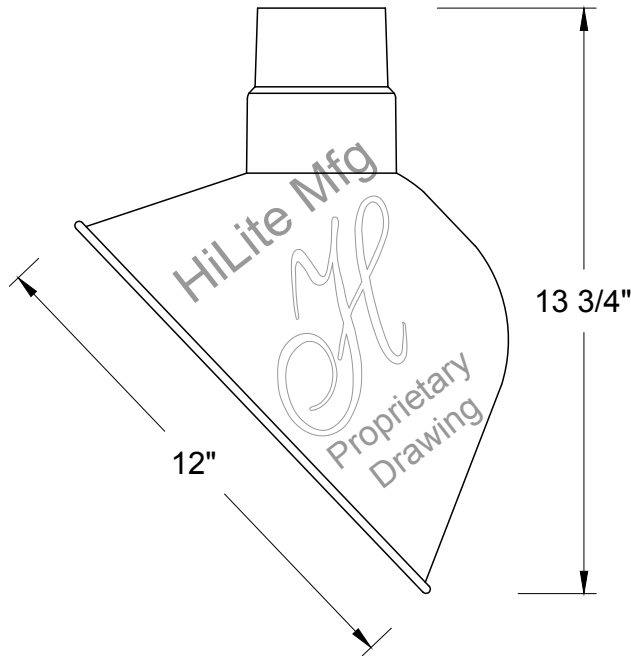
H-18112

Angle Shade Collection

Job Name:	_____
Type:	_____
Quantity:	_____

**HI-LITE MFG.
CO., INC**

13450 Monte Vista Avenue
Chino, California 91710
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Toll Free: (800) 465-0211
Fax: (909) 465-0907
web: www.hilitemfg.com
e-mail: sales@hilitemfg.com



FINISH -Multi-stage pretreatment procedure using materials of polyester/polished powder coat, baking enamel liquid, raw metals, and galvanized finishes.

Standard Finishes are: 91(Black), 93(White), 95(Dark Green), 96(Galvanized), BR47(Powder Coat Rust), BK01(Black Texture), GN20(Powder Coat Patina).

Upgraded Finishes are: 29, 66, 82, 90, 92, 94, 97, 99, 100, 103, 104, 105, 110, 112, 113, 114, 115, 117, 118, 119, 120, 127, 128, 129, 133, 134, 135, 136, 98, 101, 102, 137, 138, 139, 140, 121, 122, 123, 124, 125, 126, 11, 01, 22, 25, 33, 77, 89, 24, 44, 48, 49, 15, 16.

(Custom finishes available).

For interior finish of fixture refer to color chart on pages 344-348.

MOUNTING - Stem, Arm, and Flush mounting available.

ACCESSORIES - CGU(Cast Guard and Glass), LCGU(Large Cast Guard and Glass), WGU(Wire Guard and Glass), LWGU(Large Wire Guard and Glass), ARN(Acorn Globe), LARN(Large Acorn Globe), WGR(Wire Guard) and SK(Swivel Knuckle) available.

REFLECTOR - Heavy duty, spun shade, aluminum 6061-0 and/or 1100-0, galvanized 22 gauge, steel 20/22 gauge, copper 032/040 and brass 032/040 construction. Dependant on finish.

SOCKETS/LAMPS - Available in:

Incandescent

- rated 200 watt max/120 volt, medium base.

Compact Fluorescent(CFL)

- rated 13/18/26/32/42/57 watt max/120/277 volt, GX24Q base.

Metal Halide(MH)

- rated 35/50/70/100/150/175 watt max/120/208/240/277 volt, medium base, 4KV socket.

High Pressure Sodium(HPS)

- rated 50/70/100/150 watt max/120/277 volt, medium base.

Light-Emitted Diode(LED)

-See LED specification sheet.

MADE IN THE U.S.A.

Suitable for wet location.



DESCRIPTION

The Halo Surface LED Downlight (SLD) uses advanced technology to create an ultra-low profile **Z1** with the performance and look of a traditional downlight. SLD4 is designed for installation in many 3-1/2" and 4" round or octagon junction boxes. May also retrofit in 4" aperture IC and Non-IC recessed housings*. Dedicated LED wiring connector meets high-efficacy code requirement in recessed downlighting. Suitable for residential or commercial installations. Ideal for closets, storage areas, attics and basements. Compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5).

SPECIFICATION FEATURES

CONSTRUCTION

- Die cast aluminum trim ring and die formed aluminum frame

OPTICS

- WaveStream™ technology provides uniform luminance from a low profile flat lens
- AccuAim™ optics provide directional control for the "cone-of-light" beam distribution of a traditional downlight
- Precision molded lens features high transmission polymer with UV stabilized protecting film

DESIGNER TRIMS

Accessories (sold separately) SLD designer trims are accessory rings that attach to the SLD for a permanent finish. Refer to SLD accessories specification sheet for details.

- White (Paintable)
- Satin Nickel
- Tuscan Bronze

ELECTRICAL JUNCTION BOX MOUNTING

- SLD may be used in compatible electrical junction boxes in direct contact with insulation including spray foam insulation
- Suitable for installation in many 3-1/2" and 4" octagon and round electrical junction boxes. **Note:** Driver consumes 3 cubic inches of junction box.
- Installer must ensure compatibility of fit, wiring and proper mounting in the electrical junction box. This includes all applicable national and local electrical and building codes.
- Proprietary Slot-N-Lock quick installation system for junction box installation

- T-bracket with Slot-N-Lock mounting tabs included.

RECESSED HOUSING MOUNTING Friction Blade

- Pre-installed precision formed friction blades included
- Friction blade design allows the SLD to be installed in any position within the housing aperture (360 degrees)

* **Note:** Not for use in recessed housings in direct contact with spray foam insulation refer to NEMA LSD 57-2013

LED

- Trilateral linear LED assembly is integrated in trim perimeter.
- Color Temperature: 2700K, 3000K, 3500K, 4000K
- CRI options: 80 and 90*
 - 90 CRI can be used to comply with California Title 24 High Efficacy requirements. Certified to California Appliance Efficiency Database under JA8

- L70 at 50,000 hours projected in accordance with TM-21

WARRANTY

Eaton provides a five year limited warranty on the SLD LED

LED CHROMATICITY

- A tight chromaticity specification ensures LED color uniformity, sustainable Color Rendering Index (CRI) and Correlated Color Temperature (CCT) over the useful life of the LED
- LED chromaticity of 3 SDCM exceeds ENERGY STAR® color standards per ANSI C78.377-2008
- 90 CRI model features high color performance with R9 greater than 50

Catalog #		Type
Project		
Comments		Date
Prepared by		



SLD4058xxWH
80CRI
2700K, 3000K, 3500K,
and 4000K

SLD4059xxWH
90CRI
2700K, 3000K, 3500K,
and 4000K

4" Surface LED Downlight

Suitable for ceiling or wall electrical junction boxes

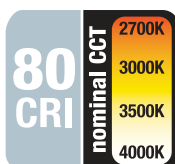
Suitable for 4" recessed housing retrofit (IC, Non-IC & AIR-TITE™)

ENERGY DATA

	80 CRI	90 CRI
Lumens (4000K models)	800	710
Input Voltage	120V	120V
Frequency	50/60 Hz	50/60 Hz
Input Current	0.10 A	0.10 A
Input Power	12.2 W	12 W
Efficiency (4000K models)	66 lm/W	59 lm/W
THD	≤ 20%	
Power Factor	≥ 0.90	
T Ambient	-30 - +40°C	
Sound Rating	Class A	

NOMENCLATURE

SLD405830WH
405 = 4" SLD
8 = >80 CRI
30 = 3000K
WH = Matte White



Refer to ENERGY STAR® Certified Products List.



Refer to ENERGY STAR® Qualified Products List. Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Appliance Efficiency Database under JA8. Indoor LED nominal CCT of 4000K or less.

DIMMING

- Designed for continuous dimming capability to nominally 5% with many 120V Leading Edge (LE) and Trailing Edge (TE) phase control dimmers. Dimming to 5% is best assured using dimmers with low end trim adjustment. Consult dimmer manufacturer for compatibility and conditions of use. (Note some dimmers require a neutral in the wallbox.)

COMPLIANCE

- cULus Listed ceiling and wall
- cULus Damp Location listed ceiling and wall
- cULus Wet Location Listed, ceiling only (shower rated)
- Suitable for use in closets, compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5)

- SLD may be used in compatible electrical junction boxes in direct contact with insulation including spray foam insulation
- May be installed in IC recessed housings in direct contact with insulation (Not for use in recessed housings in direct contact with spray foam insulation. Refer to NEMA LSD 57-2013)
- UL Classified when used in retrofit with listed housings (See Housing Compatibility)
- EMI/RFI: meets FCC 47CFR Part 15 Class B limits, and is suitable for use in residential and commercial installations
- Airtight certified per ASTM E283 (not exceeding 2.0 CFM under 57 Pascals pressure difference)
- 90 CRI: Can be used to comply with California Title 24 High Efficacy requirements.
- 80 CRI: Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED luminaire.
- Can be used for International Energy Conservation Code (IECC)
- ENERGY STAR® Certified luminaire - consult ENERGY STAR® Certified Product List
- Contains no mercury or lead and RoHS compliant.
- Photometric testing in accordance with IES LM-79
- Lumen maintenance projections in accordance with IES LM-80 and TM-21



SLD4058xxWH
80CRI
2700K, 3000K, 3500K,
and 4000K

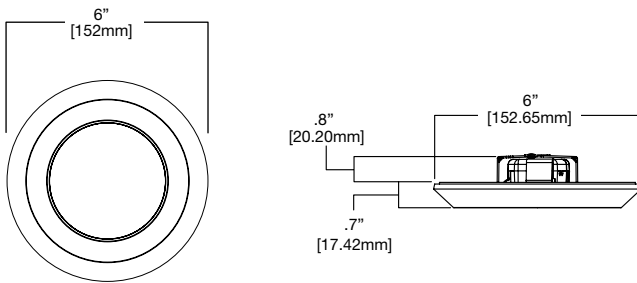
SLD4059xxWH
90CRI
2700K, 3000K, 3500K,
and 4000K

4" Surface LED Downlight

Suitable for ceiling or wall electrical junction boxes

Suitable for 4" recessed housing retrofit (IC, Non-IC & AIR-TITE™)

DIMENSIONS



ORDERING INFORMATION

SAMPLE NUMBER: SLD405927WH SLD4TRMSN

Junction Box Installation: Order junction box separately, as supplied by others, to complete installation.

Recessed Installation: Order Halo recessed housing separately to complete installation.

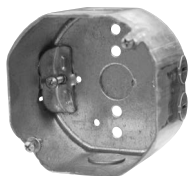
Models	Color Rendering Index	Color Temperature (CCT)	Finish	Accessories
SLD405= 4" Surface LED Downlight, 120V California non-E26 Models SLD405927WH-CA SLD405930WH-CA SSLD405935WH-CA SSLD405940WH-CA	8=80 CRI 9=90 CRI	27=2700K 30=3000K 35=3500K 40=4000K	WH=White	Designer Trims Fit over the SLD4 for a designer finish SLD4TRMSN=4" SLD Satin Nickel SLD4TRMTBZ=4" SLD Tuscan Bronze SLD4TRMWH=4" SLD White (paintable) J-Box Spacer Extension Ring Add 15/16" depth when SLD driver cannot fit into installed junction box SLD4EXT=4" Surface LED J-Box Extender, 7.75" O.D. RAD Adapters When junction box is mounted flat on a ceiling or beam surface (not recessed in ceiling) SLD4RAD=4" SLD Round Surface J-Box Adapter, 6.15" O.D. (For 4-inch round or octagon junction boxes) Spare Parts SLD4ACCKIT=4" Accessory Parts Replacement Kit (Screwbase adapter, torsion springs, friction blades) SLD4BRKT=4" Junction Box Bracket & Screws Refer to SLD Accessories specification sheet for further information.

HOUSING COMPATIBILITY

The SLD4 is UL Listed in Halo recessed housings, and is UL Classified for use with any 4 inch diameter recessed housing constructed of steel or aluminum with an internal volume that exceeds 62.3 in³ in addition to those noted below:

Compatible Halo LED Housings with LED luminaire connector (high-efficacy compliant)		
HALO LED	Recessed Can Size	Catalog Number
		4"
Compatible Halo Incandescent E26 Screwbase Housings		
HALO	Recessed Can Size	Catalog Number
	4"	H99ICAT, H99TAT, H99RTAT, E4ICATSB, E4TATSB, E4RTATSB

COMPATIBLE WITH EATON'S CROUSE-HINDS JUNCTION BOXES



TP316
for non-metallic cable
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)



TP317
for metal clad cable
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)

- TP316 - for non-metallic cable
- TP317 - for metal clad cable
- UL Listed
- Refer to www.crouse-hinds.com

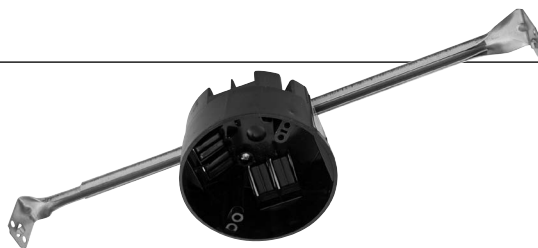
COMPATIBLE WITH MANY OTHER JUNCTION BOXES*



4" octagon light fixture/fan steel box
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)



4" octagon steel box
4" x 4" x 1-1/2"
(102mm x 102mm x 38mm)



4" round new work non-metallic box with hanger bar assembly
4" diameter x 2-3/16" (102mm x 56mm)



4" round new work non-metallic light fixture/fan box
4" diameter x 2-3/16"
(102mm x 56mm)



3-1/2" round new work non-metallic ceiling box
3-1/2" diameter x 2-3/4"
(89mm x 70mm)



3-1/2" round old work non-metallic box
4-1/4" O.D. flange, 3-1/2" I.D. x 2-5/8"
(108mm O.D., 89mm I.D. x 67mm)



4" round surface mount box
4" diameter x 1-1/2"
(102mm x 38mm)
Requires SLD4RAD adapter

*This is a representative list of compatible junction boxes only. Information contained in this literature about other manufacturers' products is from published information made available by the manufacturer and is deemed to be reliable, but has not been verified. Eaton makes no specific recommendation on product selection and there are no warranties of performance or compatibility implied. Installer must determine that site conditions are suitable to allow proper installation of the SLD mounting bracket in the box.

PRODUCT DATA

Cat No.	CRI	CCT	Lumens	Power (W)	LPW
SLD405827WH	81	2700	720	12.2	59
SLD405830WH	81	3000	750	12.2	61
SLD405835WH	81	3500	780	12.2	64
SLD405840WH	81	4000	800	12.2	66
SLD405927WH	92	2700	650	12	54
SLD405930WH	92	3000	670	12	56
SLD405935WH	92	3500	690	12	58
SLD405940WH	92	4000	710	12	59

Performance values are presented as typical for the model(s) indicated. Field results may vary.

LIGHTING FACTS®

SLD405827WH - 80 CRI

Lighting facts®
A Program of the U.S. DOE

Light Output (Lumens) 720
Watts 12.2
Lumens per Watt (Efficacy) 59.02

Color Accuracy
Color Rendering Index (CRI) 81

Light Color
Correlated Color Temperature (CCT) 2700 (Warm White)

2700K 3000K Bright White 4500K Daylight 6500K

Registration Number: F4QJ-78R3JK (4/17/2015)
Model Number: SLD405827WH
Type: Luminaire - Downlight

SLD405830WH - 80 CRI

Lighting facts®
A Program of the U.S. DOE

Light Output (Lumens) 750
Watts 12.2
Lumens per Watt (Efficacy) 61.48

Color Accuracy
Color Rendering Index (CRI) 81

Light Color
Correlated Color Temperature (CCT) 3000 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

Registration Number: F4QJ-C7D2C3 (5/7/2015)
Model Number: SLD405830WH (Upgrade 942015)
Type: Luminaire - Downlight

SLD405835WH - 80 CRI

Lighting facts®
A Program of the U.S. DOE

Light Output (Lumens) 780
Watts 12.2
Lumens per Watt (Efficacy) 63.93

Color Accuracy
Color Rendering Index (CRI) 81

Light Color
Correlated Color Temperature (CCT) 3500 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

Registration Number: F4QJ-B618FN (4/17/2015)
Model Number: SLD405835WH
Type: Luminaire - Downlight

SLD405840WH - 80 CRI

Lighting facts®
A Program of the U.S. DOE

Light Output (Lumens) 800
Watts 12.2
Lumens per Watt (Efficacy) 65.57

Color Accuracy
Color Rendering Index (CRI) 81

Light Color
Correlated Color Temperature (CCT) 4000 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

Registration Number: F4QJ-M8ZDPK (4/17/2015)
Model Number: SLD405840WH
Type: Luminaire - Downlight

SLD405927WH - 90 CRI

Lighting facts®
A Program of the U.S. DOE

Light Output (Lumens) 650
Watts 12
Lumens per Watt (Efficacy) 54.17

Color Accuracy
Color Rendering Index (CRI) 92

Light Color
Correlated Color Temperature (CCT) 2700 (Warm White)

2700K 3000K Bright White 4500K Daylight 6500K

Registration Number: F4QJ-Q8MBG (4/17/2015)
Model Number: SLD405927WH
Type: Luminaire - Downlight

SLD405930WH - 90 CRI

Lighting facts®
A Program of the U.S. DOE

Light Output (Lumens) 670
Watts 12
Lumens per Watt (Efficacy) 55.83

Color Accuracy
Color Rendering Index (CRI) 92

Light Color
Correlated Color Temperature (CCT) 3000 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

Registration Number: F4QJ-14JH1 (5/7/2015)
Model Number: SLD405930WH (Upgrade 042015)
Type: Luminaire - Downlight

SLD405935WH - 90 CRI

Lighting facts®
A Program of the U.S. DOE

Light Output (Lumens) 690
Watts 12
Lumens per Watt (Efficacy) 57.5

Color Accuracy
Color Rendering Index (CRI) 92

Light Color
Correlated Color Temperature (CCT) 3500 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

Registration Number: F4QJ-2DFUT (4/17/2015)
Model Number: SLD405935WH
Type: Luminaire - Downlight

SLD405940WH - 90 CRI

Lighting facts®
A Program of the U.S. DOE

Light Output (Lumens) 710
Watts 12
Lumens per Watt (Efficacy) 59.17

Color Accuracy
Color Rendering Index (CRI) 92

Light Color
Correlated Color Temperature (CCT) 4000 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

Registration Number: F4QJ-1K230B (4/17/2015)
Model Number: SLD405940WH
Type: Luminaire - Downlight



Scottsdale® Legacy (CRUS)

LED Canopy Luminaire



OVERVIEW

Lumen Package	6,000 - 22,000
Wattage Range	61 - 159
Efficacy Range (LPW)	95 - 148
Weight lbs(kg)	27 (12.2)

QUICK LINKS

[Ordering Guide](#)[Performance](#)[Photometrics](#)[Dimensions](#)

FEATURES & SPECIFICATIONS

Construction

- Features a ultra-slim 3/4" profile die-cast housing, with flat glass lens. Unit is water-resistant, sealed and IP67 rated. Integral designed heat sink does not trap dirt and grime, ensuring cool running performance over the life of the fixture.
- Standard color is white and is finished with LSI's DuraGrip® polyester powder coat process. DuraGrip withstands extreme weather changes without cracking or peeling.
- Luminaire assembly incorporates a pressure stabilizing vent breather to prevent seal fatigue and failure.

Optical System

- Features an array of select, mid-power, high brightness, high efficiency LED chips; 5000K, 4000K, 3000K color temperature, 70 CRI.
- Choice of Symmetrical or Asymmetrical, which directs light through a clear tempered glass lens, to provide a uniform distribution.
- Five Lumen Packages: VLW (9,000), LW (10,000), SS (13,000), HO (18,000), VHO (22,000).

Electrical

- High performance factory programmable driver features over-voltage, under voltage, short-circuit and over temperature protection with integral surge protection

that meets IEEE C62.41.2 and ANSI C82.77-5 Location Category C Low standards. Additional 10kV surge protection device meets a minimum Category C Low standards (per ANSI/IEEE C62.41.2).

- Driver components are fully encased in potting for moisture resistance. Complies with IEC and FCC standards. 0-10 V dimming supplied standard with all drive currents.
- Die-cast aluminum, wet location rated driver/electrical enclosure is elevated above canopy deck to prevent water entry, provide easy "knock-out" connection of primary wiring and contributes to attaining the lowest operating temperatures available. Seals to optical housing via one-piece molded silicone gasket.
- Universal voltage power supply, 120-277 VAC, 50/60 HZ and 347-480 VAC, 50/60 HZ input.
- -40°C to 50°C (-40°F to +122°F) ambient operating temperature.
- Minimum 60,000 to 100,000 hours depending upon the ambient temperature of the installation location. See LSI website for specific guidance.

Hazardous Location

- Designed for lighter than air fuel applications. Product is suitable for Class 1 Divisions 2 only when properly installed per LSI installation instructions. See lsi-industries.com for specific guidance. LW

and SS lumen packages only.

Installation

- One-person installation.
- Installs in a 12" or 16" deck pan. Deck penetration consists of a 4" hole, simplifying installation and water sealing. Unit is designed to quickly retrofit into existing Scottsdale (4") hole as well as openings for Encore and Encore Top Access and to reconnect wiring for the SC/ECTA without having to relocate the conduit.
- Retro panels are available for existing Encores as well as kits for recessed and 2x2 installations (see separate spec sheets). Support brackets are provided standard, to prevent sagging of deck.

Warranty

- LSI LED Fixtures carry a 5-year warranty or 10-year warranty with registration for petroleum applications only (contact your LSI representative for details).

Listings

- UL and ETL listed to UL 1598, UL 8750 and other U.S. and International safety standards. Suitable for wet locations.
- Meets Buy American Act requirements.





Scottsdale® Legacy LED Canopy Luminaire

ORDERING GUIDE

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TYPICAL ORDER EXAMPLE: **CRUS SC LED SS 50 UE WHT**

Prefix	Distribution	Light Source	Drive Current	Color Temp	Input Voltage	Finish	Options
CRUS - LED Canopy Luminaire	SC - Symmetric	LED	VLW - Very Low Watt	50 - 5,000K	UE - Universal Voltage (120 - 277V) 347 - 480V	WHT - White BRZ - Bronze BLK - Black	HL ² - Hazardous Location
	AC ¹ - Asymmetric		LW - Low Watt	40 - 4,000K			
			SS - Super Saver HO - High Output VHO - Very High Output	30 - 3,000K			

Notes:

- 1 - AC distribution utilizes a reflector which alters the look from a standard SC distribution.
- 2 - LW and SS lumen packages only

PERFORMANCE

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DELIVERED LUMENS*											
Lumen Package	Distribution	3000K CCT			4000K CCT			5000K CCT			Avg. Watts
		Delivered Lumens	Efficacy	BUG Ratings	Delivered Lumens	Efficacy	BUG Ratings	Delivered Lumens	Efficacy	BUG Ratings	
VLW	SC	7933	130	B3-U0-G1	7977	131	B3-U0-G1	9055	148	B3-U0-G1	61
	AC	6687	110	B2-U0-G1	6723	110	B2-U0-G1	7632	125	B2-U0-G2	
LW	SC	9221	125	B3-U0-G1	9272	125	B3-U0-G1	10525	142	B3-U0-G1	74
	AC	7783	105	B2-U0-G1	7826	106	B2-U0-G1	8884	120	B2-U0-G2	
SS	SC	11980	122	B3-U0-G1	12046	128	B3-U0-G1	13674	140	B3-U0-G1	98
	AC	10159	104	B3-U0-G2	10215	104	B3-U0-G2	11595	118	B3-U0-G2	
HO	SC	16325	124	B3-U0-G1	16415	124	B3-U0-G1	18633	141	B3-U0-G1	132
	AC	13269	101	B3-U0-G2	13342	101	B3-U0-G2	15145	115	B3-U0-G2	
VHO	SC	19641	124	B4-U0-G2	19749	124	B4-U0-G2	22418	141	B4-U0-G2	159
	AC	15124	95	B3-U0-G2	15207	96	B3-U0-G2	17262	109	B3-U0-G2	

*LED Chips are frequently updated therefore values are nominal.

RECOMMENDED LUMEN MAINTENANCE					
Ambient Temperature C	0 hrs.	25K hrs.	50K hrs.	75K hrs.	100K hrs
25	25	100%	97%	92%	88%
30	30	100%	97%	92%	88%
35	40	100%	95%	90%	85%
40	50	100%	94%	89%	83%

FOOTNOTES:

- 1 - Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing.
- 2 - In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip).
- 3 - In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times NA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip).





PHOTOMETRICS

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Luminaire photometry has been conducted by an accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See <http://www.lsi-industries.com/products/led-lighting-solutions.aspx> for detailed photometric data.

CRUS-SC-SS-50

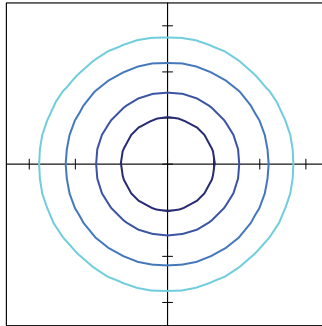
LUMINAIRE DATA

Wide Distribution	
Description	5000 Kelvin, 70 CRI
Delivered Lumens	13,674
Watts	97.9
Efficacy	140
IES Type	Type VS - Very Short
BUG Rating	B3-U0-G1

Zonal Lumen Summary

Zone	Lumens	%Luminaire
Low (0-30)°	3652.2	26.7%
Medium (30-60)°	7382.4	54.0%
High (60-80)°	2489.8	18.2%
Very High (80-90)°	149.4	1.1%
Uplight (90-180)°	0.0	0.0%
Total Flux	13673.8	100%

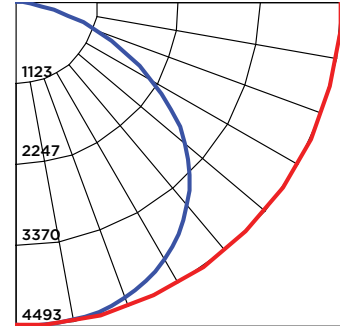
ISO FOOTCANDLE PLOT



15' Mounting Height / 10' Grid Spacing

■ 10 FC ■ 5 FC ■ 2 FC ■ 1 FC

POLAR CURVE



CRUS-AC-SS-50

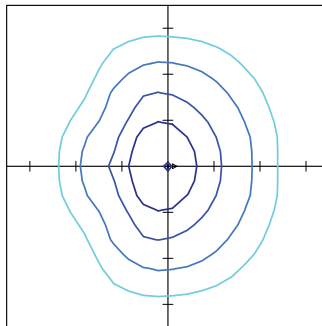
LUMINAIRE DATA

Wide Distribution	
Description	5000 Kelvin, 70 CRI
Delivered Lumens	11595
Watts	98.8
Efficacy	117
IES Type	Type III - Very Short
BUG Rating	B2-U0-G2

Zonal Lumen Summary

Zone	Lumens	%Luminaire
Low (0-30)°	2766.0	23.9%
Medium (30-60)°	5868.8	50.6%
High (60-80)°	2712.2	23.4%
Very High (80-90)°	248.1	2.1%
Uplight (90-180)°	0.0	0.0%
Total Flux	11595.1	100%

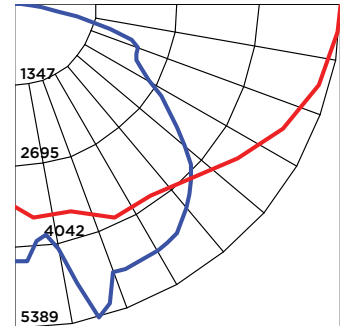
ISO FOOTCANDLE PLOT



15' Mounting Height / 10' Grid Spacing

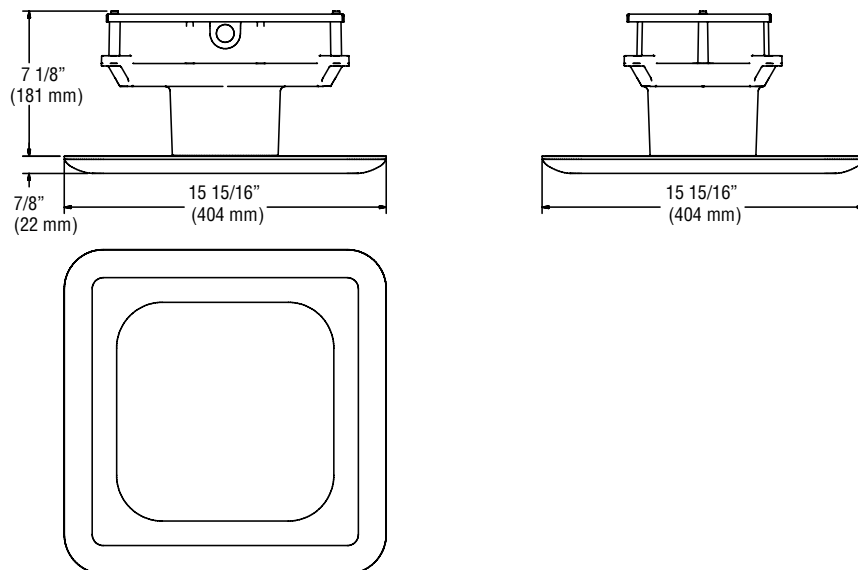
■ 10 FC ■ 5 FC ■ 2 FC ■ 1 FC

POLAR CURVE



PRODUCT DIMENSIONS

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▷ 1391 Corporate Drive | Suite 203 | McHenry, IL 60050
Main 815.385.1778 + Fax 815.385.1781

▷ HRGREEN.COM

November 27th, 2024

To: City of Fitchburg
5220 Lacy Road
Fitchburg, WI 53711

From: Mr. Joe Vavrina, P.E.

Subject: Stormwater Memo
Chick-fil-A – Fitchburg, WI
Job #: 2402494

Background

Chick-fil-A (CFA) is proposing the construction of an approximate 5,200 square foot free-standing restaurant, drive-thru lane, parking facilities, and associated utilities located within the Jamestown Quarry Development in the City of Fitchburg. The project is generally located near the northwest corner of the McKee Road and Fitchrona Road intersection. The proposed stormwater management improvements have been designed in accordance with the City of Fitchburg's Stormwater Management Ordinance.

Existing Conditions

The subject parcel will be delivered to CFA as a vacant mass graded lot as part of the Jamestown Quarry Development. The site lies adjacent to McKee Road to the south, vacant lots to the west & east, and an access drive to the north. The parcel is approximately 1.69 acres (74,058 square feet) in size and will have no impervious surface. The site will be mass graded to drain from southwest to northeast towards the regional basin to the east. The regional basin has been designed by others to accommodate the detention & water quality requirements for the CFA improvements. As such, no onsite stormwater quantity/quality features are proposed for this site.

Proposed Conditions

The proposed improvements to the site consist of the construction of the Chick-fil-A restaurant, drive-thru, parking facilities, and the installation of underground utilities. In the proposed condition, the impervious and pervious areas within the subject parcel are calculated to be 55,416 square feet and 18,642 square feet respectively, resulting in the site to be 75% impervious.

The CFA site has been designed to capture and convey stormwater via an onsite storm sewer system. Catch basin structures have been introduced around the site to capture runoff from the various drainage areas and



convey stormwater to the 18" storm sewer along the north side of the site. This storm sewer system is ultimately tributary to the regional basin of the Jamestown Quarry Development.

The onsite CFA storm sewer has been designed to convey the 10-year event utilizing Hydraflow Storm Sewers for AutoCAD Civil3D, 2023. Atlas 14 rainfall intensities for the 10-year event were utilized in all calculations. Onsite drainage areas were defined for each individual storm sewer catch basin. These drainage areas can be seen on the Proposed Drainage Plan (PDP) and are also noted in the Rational "C" Calculation table included in this memo. The times of concentration used in calculation for each drainage area were assumed to be 5 minutes due to short onsite flow paths. The Hydraflow model was also utilized to calculate the HGL of the storm sewers, verifying that the HGL is below the rim elevations of the storm structures. The Hydraflow model and inlet capacity calculations have been included in this report.

The CFA site has been designed to provide overland flood routes throughout the parking lot and drive-thru lane to direct water away from the CFA building. The overland flood route from the site has been directed north to the internal access drive and will ultimately make it to the regional basin. The overland flood route through the CFA site has been shown via bold arrows on the Grading Plan (C-300).

Erosion Control

Installation of sediment and erosion control measures will be placed prior to the start of construction. Inlet protection baskets and silt fence are planned to be installed to control erosion and silt displacement until vegetation is established.



RATIONAL METHOD "C" CALCULATION

Project #: 2402494
 Project: CHICK-FIL-A
 Location: FITCHBURG, WI

By ERN Date 10/1/2024
 Checked Date
 Revised NHL Date 11/26/2024

BASIN NO.	AREA (SQ-FT)	AREA PAVED	AREA GRASS	%PAVED 0.95	%GRASS 0.35	RUNOFF "C"	AREA (acres)
CFA PROJECT AREA							
PROPOSED CONDITION	74,058	55,416	18,642	75%	25%	0.80	1.70
PROPOSED DRAINAGE AREAS							
PR-DA-1	8,875	6,671	2,204	75%	25%	0.80	0.20
PR-DA-2	20,160	18,931	1,229	94%	6%	0.91	0.46
PR-DA-3	8,422	6,136	2,286	73%	27%	0.79	0.19
PR-DA-4	5,399	2,714	2,685	50%	50%	0.65	0.12
PR-DA-5	5,259	3,061	2,198	58%	42%	0.70	0.12
PR-DA-6	2,239	2,239	0	100%	0%	0.95	0.05
PR-DA-7 (BUILDING & CANOPY)	6,809	6,809	0	100%	0%	0.95	0.16
PR-DA-8	8,696	8,068	628	93%	7%	0.91	0.20
PR-DA-9	8,199	787	7,412	10%	90%	0.41	0.19



INLET CAPACITIES

Project #: 2402494 By NHL Date 11/27/2024
Project: CHICK-FIL-A Checked _____ Date _____
Location: FITCHBURG, WI Revised _____ Date _____

CURB INLETS

Structure Number	Frame and Grate	Flow 10-Year (CFS)	Water Depth (ft) Required to Accommodate Flow	Ponding Depth (ft) Provided
ST 3	R-3235 TY A	1.19	0.20	0.50
ST 5	R-3235 TY A	3.09	0.50	0.50
ST 7	R-3235 TY A	1.11	0.20	0.50
ST 9	R-3235 TY A	0.59	0.15	0.50
ST 11	R-3235 TY A	0.62	0.15	0.40
ST 13	R-3235 TY A	1.44	0.25	0.40
ST 19	R-3235 TY A	0.32	0.10	0.50

Inlet Capacities per IDOT Design Manual

Neenah R-3235

Type A Grate

0.9 = Free open area of grate (sq. ft.)

4.5 = Weir Perimeter of grate (ft.)

---- Capacity Calculation ----

Ponding	Weir Equation	Orifice Equation	Net Capacity	Weir/Orifice ratio	Flow Type
0.05	0.15	0.97	0.15	0.16	Weir Flow
0.10	0.43	1.37	0.43	0.31	Weir Flow
0.15	0.78	1.68	0.78	0.47	Weir Flow
0.17	0.95	1.79	0.95	0.53	Weir Flow
0.20	1.21	1.94	1.21	0.62	Weir Flow
0.25	1.69	2.17	1.54	0.78	Transition Flow
0.30	2.22	2.37	1.84	0.93	Transition Flow
0.35	2.80	2.56	2.14	1.09	Transition Flow
0.40	3.42	2.74	2.46	1.25	Transition Flow
0.45	4.08	2.91	2.79	1.40	Transition Flow
0.50	4.77	3.06	3.06	1.56	Orifice Flow
0.55	5.51	3.21	3.21	1.71	Orifice Flow
0.60	6.27	3.36	3.36	1.87	Orifice Flow
0.65	7.07	3.49	3.49	2.02	Orifice Flow
0.70	7.91	3.63	3.63	2.18	Orifice Flow
0.75	8.77	3.75	3.75	2.34	Orifice Flow
0.85	10.58	4.00	4.00	2.65	Orifice Flow
1.00	13.50	4.33	4.33	3.12	Orifice Flow
1.25	18.87	4.84	4.84	3.89	Orifice Flow
1.50	24.80	5.31	5.31	4.67	Orifice Flow
1.75	31.25	5.73	5.73	5.45	Orifice Flow
2.00	38.18	6.13	6.13	6.23	Orifice Flow
2.25	45.56	6.50	6.50	7.01	Orifice Flow
2.50	53.36	6.85	6.85	7.79	Orifice Flow
2.75	61.56	7.19	7.19	8.57	Orifice Flow
3.00	70.15	7.51	7.51	9.35	Orifice Flow
3.25	79.10	7.81	7.81	10.12	Orifice Flow
3.50	88.40	8.11	8.11	10.90	Orifice Flow
3.75	98.03	8.39	8.39	11.68	Orifice Flow
4.00	108.00	8.67	8.67	12.46	Orifice Flow
4.25	118.28	8.93	8.93	13.24	Orifice Flow
4.50	128.87	9.19	9.19	14.02	Orifice Flow

Notes:

Equations used

$Q=0.6A(2gh)^{0.5}$

Orifice equation

$Q=3P(h)^{1.5}$

Weir equation

where:

A= free open area of grate

P= weir perimeter

h= feet of head (ponding depth)

g= 32.2 feet per sec/sec

Q=capacity of grate in CFS

Net total flow is the lower of the two equations except where the ratio of the two solutions is between 0.667 and 1.5. In the latter case the net flow is 80% of the average of the two solutions as an approximation of transitional flow.

Hydraflow Storm Sewers Extension for Autodesk® Civil 3D® Plan



Hydraflow IDF Report

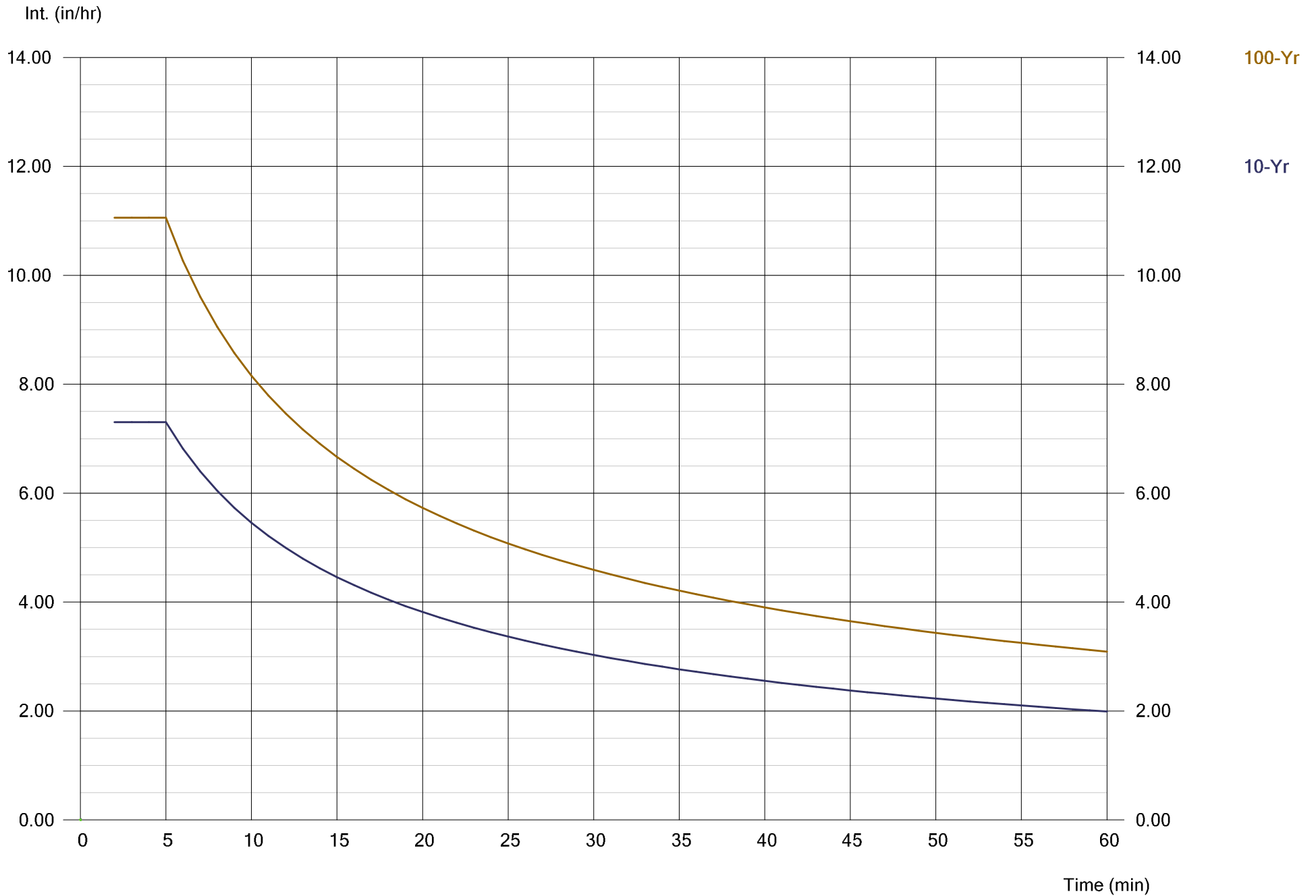
Return Period (Yrs)	Equation Coefficients (FHA)			
	B	D	E	(N/A)
1	0.0000	0.0000	0.0000	-----
2	0.0000	0.0000	0.0000	-----
3	0.0000	0.0000	0.0000	-----
5	0.0000	0.0000	0.0000	-----
10	31.8025	4.1000	0.6661	-----
25	0.0000	0.0000	0.0000	-----
50	0.0000	0.0000	0.0000	-----
100	38.2337	2.7000	0.6079	-----

Intensity = B / (Tc + D)^E

Return Period (Yrs)	Intensity Values (in/hr)											
	5 min	10	15	20	25	30	35	40	45	50	55	60
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	7.30	5.46	4.46	3.82	3.37	3.03	2.77	2.55	2.38	2.23	2.10	1.99
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	11.06	8.16	6.67	5.73	5.08	4.59	4.21	3.90	3.65	3.43	3.25	3.09

Tc = time in minutes. Min Tc = 5

Storm Sewer IDF Curves



Storm Sewer Tabulation

Station		Len (ft)	Drng Area		Rnoff coeff (C)	Area x C		Tc		Rain (l) (in/hr)	Total flow (cfs)	Cap full (cfs)	Vel (ft/s)	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line		Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
1	End	45.000	0.20	1.50	0.80	0.16	1.27	5.0	7.6	6.2	7.86	10.50	6.13	18	1.00	1052.37	1052.82	1053.34	1053.91	1061.75	1062.25	ST-2
2	1	49.000	0.46	1.10	0.91	0.42	0.93	5.0	7.4	6.2	5.80	6.52	5.83	15	1.02	1058.25	1058.75	1059.17	1059.72	1062.25	1062.90	ST-4
3	2	164.000	0.19	0.64	0.79	0.15	0.51	5.0	6.8	6.5	3.31	3.46	4.65	12	0.95	1058.75	1060.30	1059.72	1061.08	1062.90	1065.45	ST-6
4	3	92.000	0.12	0.45	0.65	0.08	0.36	5.0	6.3	6.7	2.41	2.63	3.75	12	0.54	1060.30	1060.80	1061.08	1061.55	1065.45	1065.55	ST-8
5	4	97.000	0.12	0.33	0.70	0.08	0.28	5.0	5.7	7.0	1.97	2.29	2.69	12	0.41	1060.80	1061.20	1061.77	1062.03	1065.55	1065.75	ST-10
6	5	76.000	0.21	0.21	0.95	0.20	0.20	5.0	5.0	7.3	1.46	2.24	2.31	12	0.39	1061.20	1061.50	1062.06	1062.18	1065.75	1065.85	ST-12
7	1	83.000	0.20	0.20	0.91	0.18	0.18	5.0	5.0	7.3	1.33	4.48	3.18	15	0.48	1056.80	1057.20	1057.27	1057.67	1062.25	1061.00	ST-18

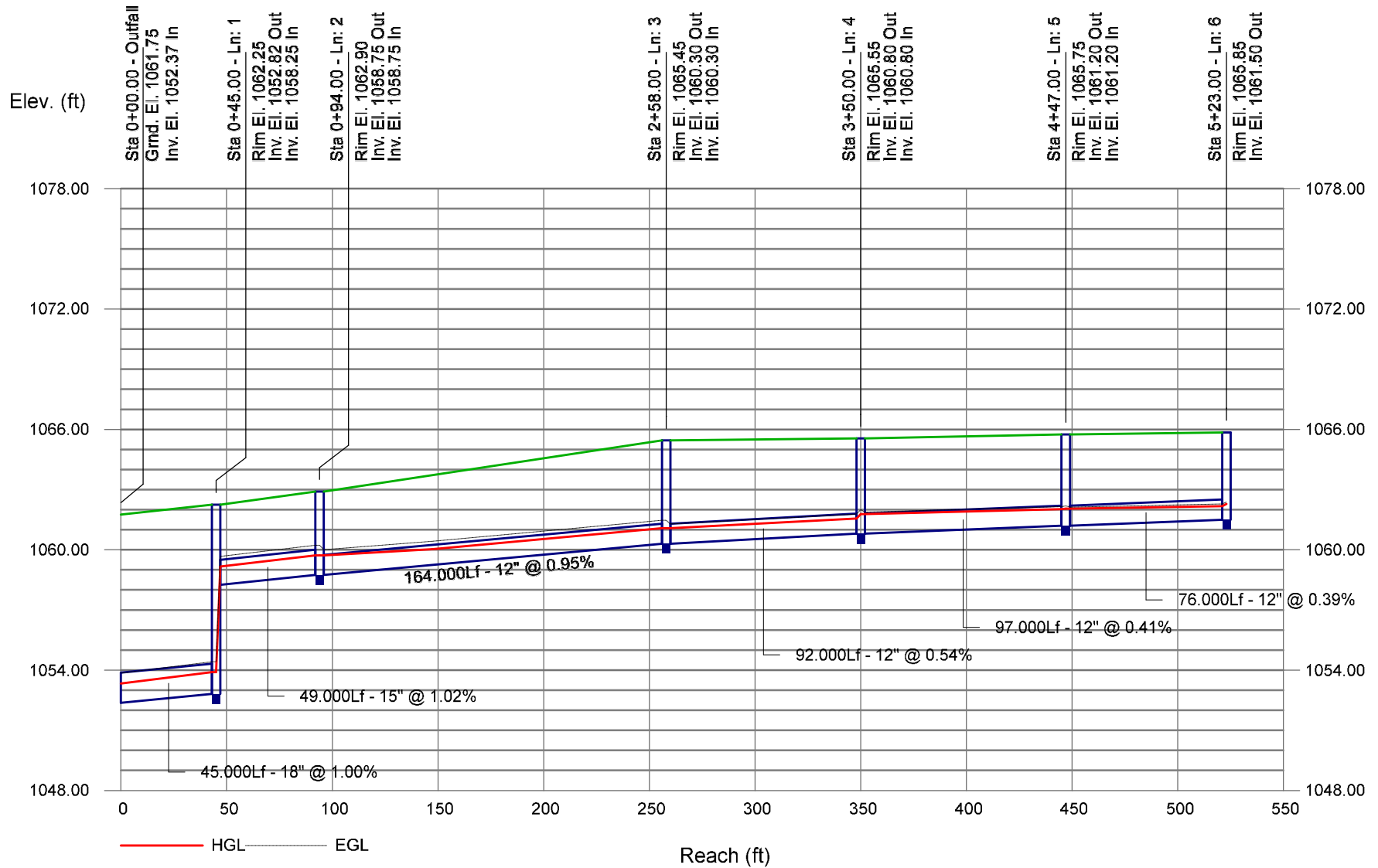
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Number of lines: 7

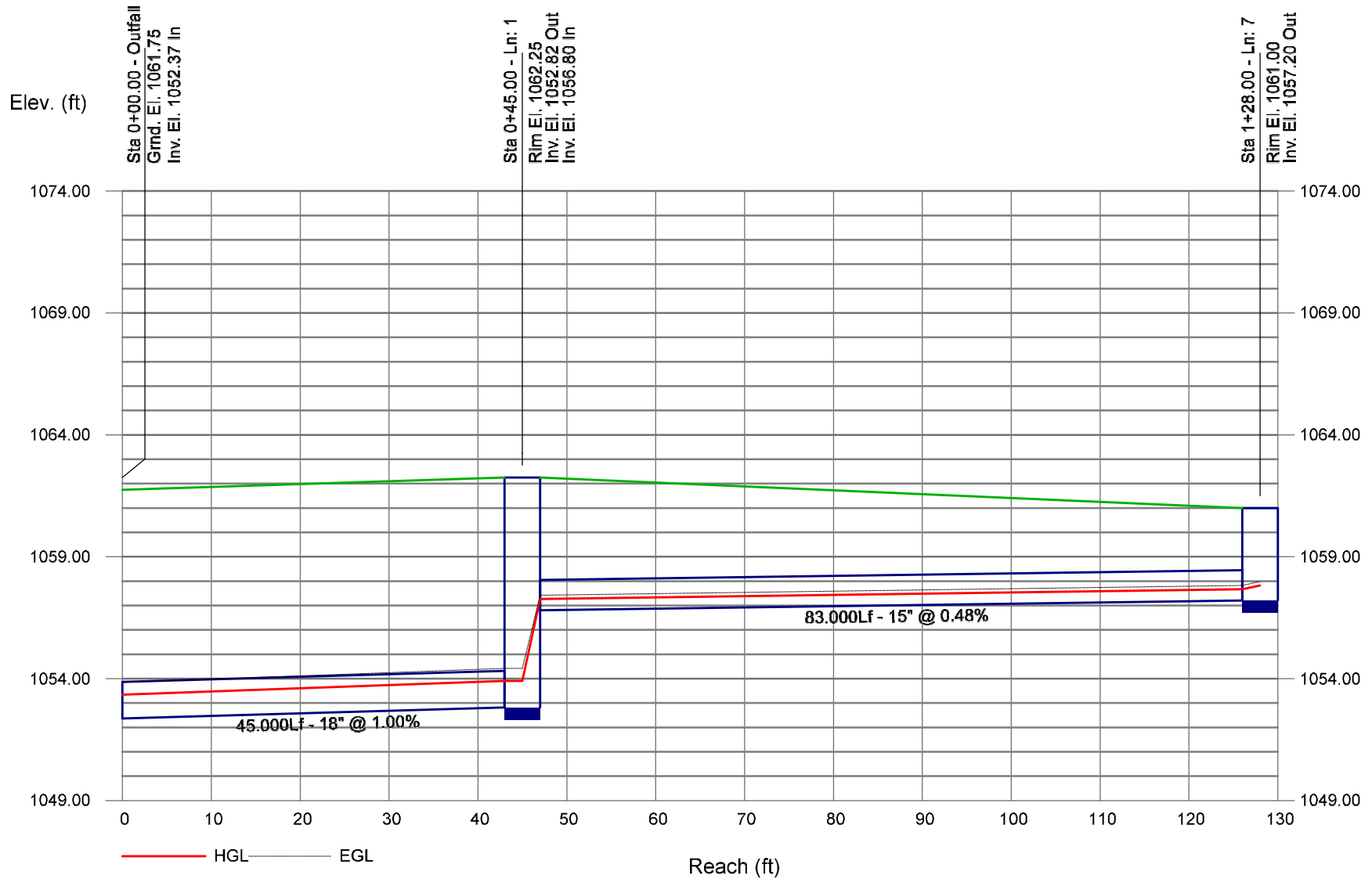
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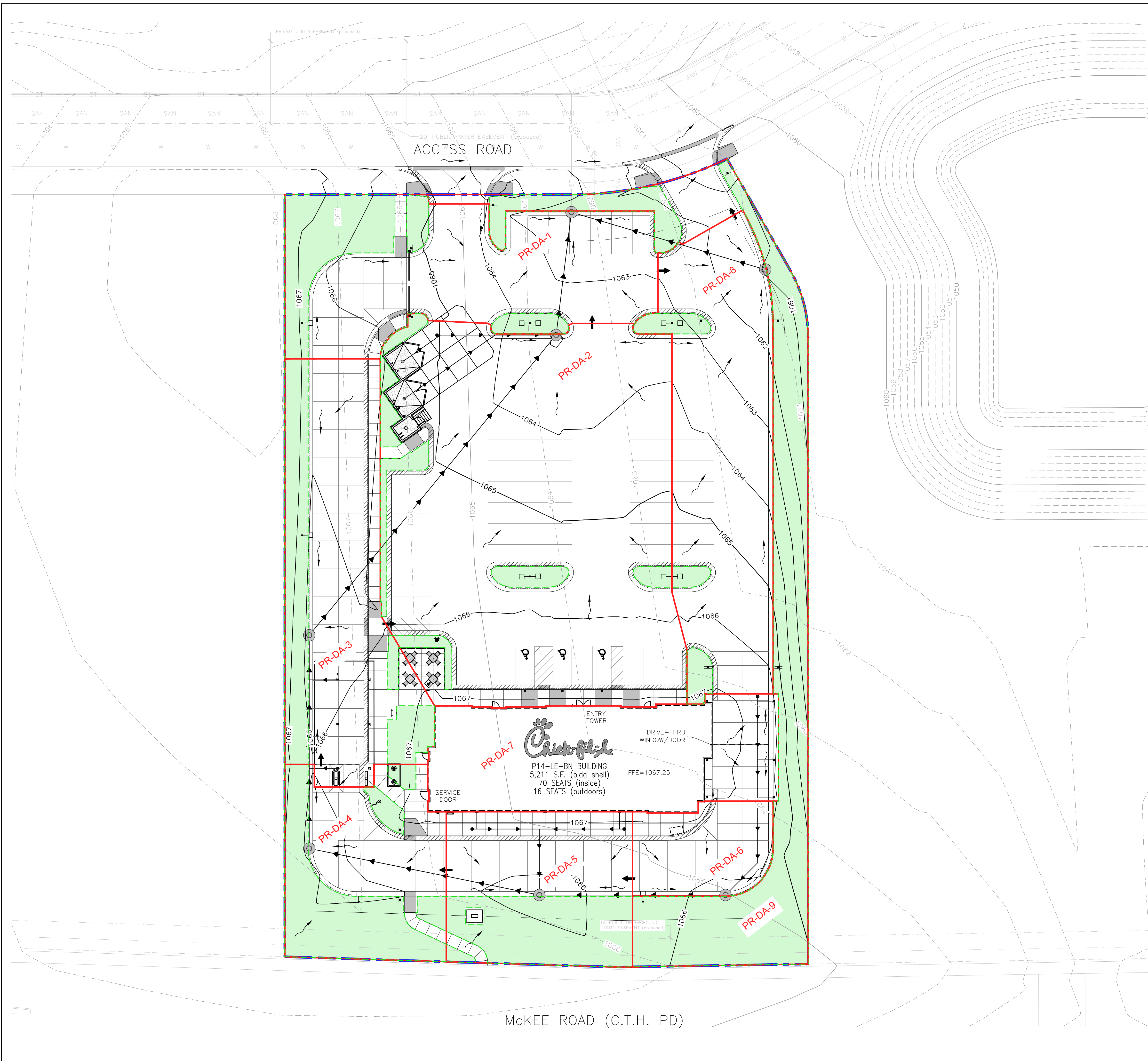
NOTES: Intensity = 31.80 / (Inlet time + 4.10) ^ 0.67; Return period = Yrs. 10 ; c = cir e = ellip b = box

Storm Sewer Profile



Storm Sewer Profile





LEGEND:

- PROJECT AREA BOUNDARY
- PROPOSED DRAINAGE AREA BOUNDARY
- DENOTES PROPOSED PERVIOUS AREA
- DRAINAGE ARROW
- OVERFLOW ROUTE ARROW



Chick-fil-A

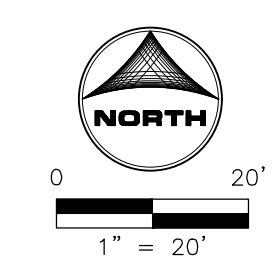
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NO.	DATE	



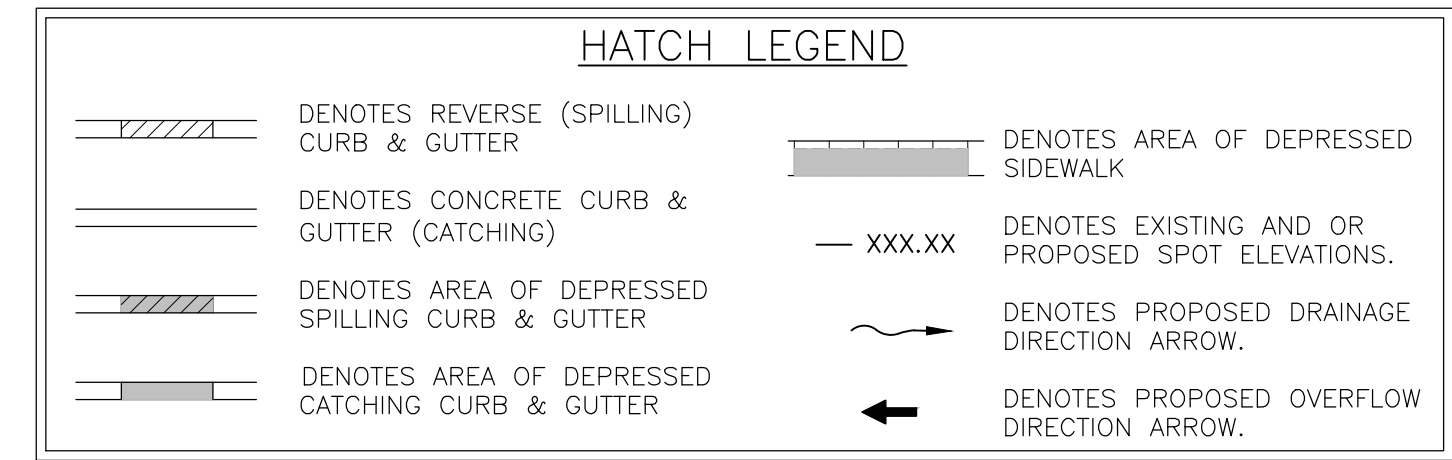
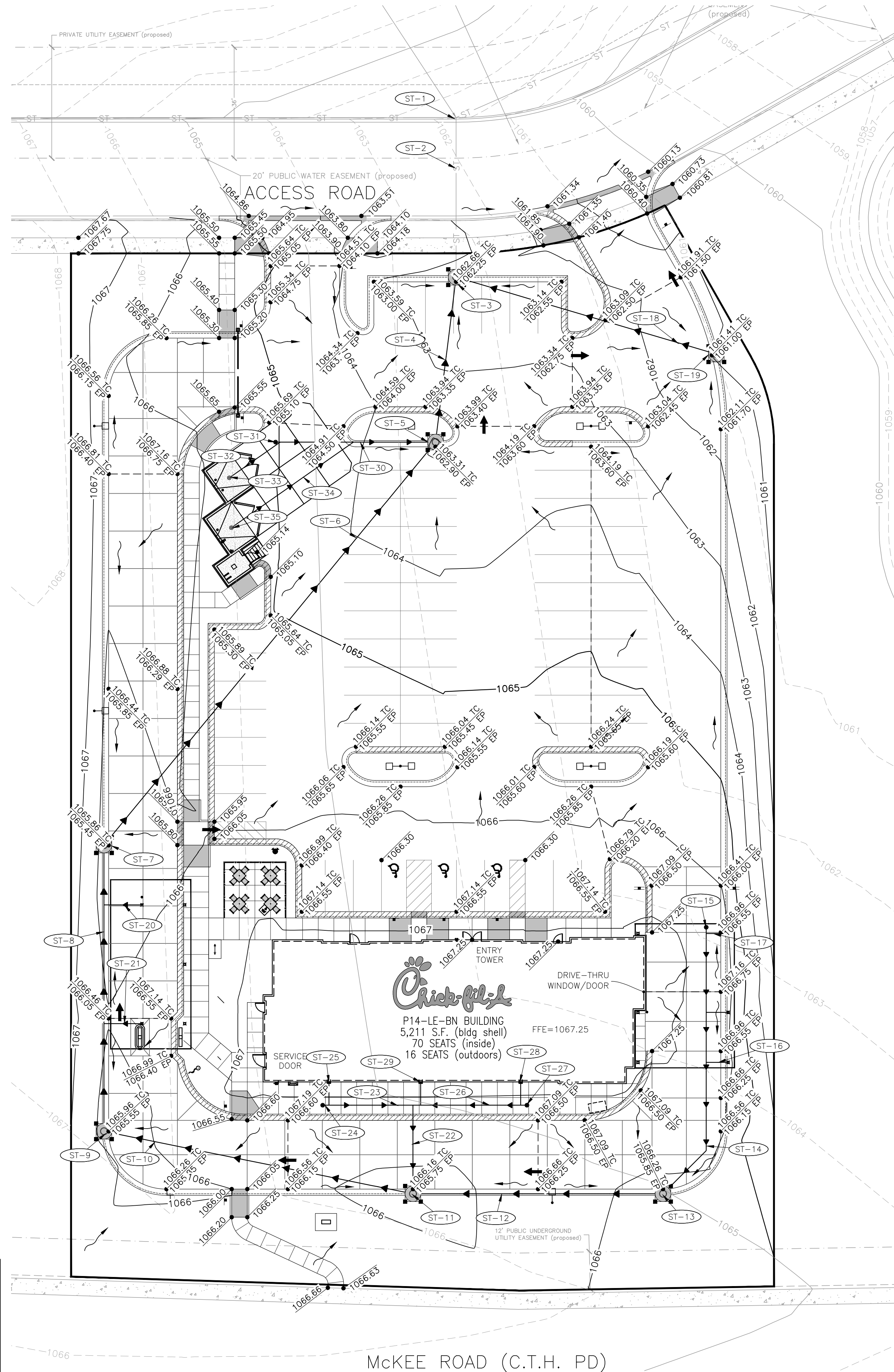
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SHEET	PROPOSED DRAINAGE PLAN
SHEET NUMBER	PDP

GRADING & DRAINAGE NOTES

- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF SITE PLAN DOCUMENTS AND ARCHITECTURAL DESIGN FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS, GREASE TRAP REQUIREMENTS/DETAILS, DOOR ACCESS, AND EXTERIOR GRADING. THE UTILITY SERVICE SIZES ARE TO BE DETERMINED BY THE ARCHITECT. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES/SERVICES WITH THE INDIVIDUAL COMPANIES, TO AVOID CONFLICTS AND ENSURE PROPER DEPTHS ARE ACHIEVED. THE JURISDICTION UTILITY REQUIREMENTS SHALL ALSO BE MET, AS WELL AS COORDINATING THE UTILITY TIE-INS/CONNECTIONS PRIOR TO CONNECTING TO THE EXISTING UTILITY/SERVICE. WHERE CONFLICTS EXIST WITH THESE SITE PLANS, ENGINEER IS TO BE NOTIFIED PRIOR TO CONSTRUCTION TO RESOLVE SAME.
- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEOTECHNICAL REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED AS OUTLINED IN THE GEOTECHNICAL REPORT. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL BE SUBMITTED IN COMPACTION REPORT PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER, REGISTERED WITH THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT. SUBBASE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED UNSUITABLE BY OWNER OR OWNER'S REPRESENTATIVE, SUBBASE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED AS DIRECTED BY THE GEOTECHNICAL REPORT.
- ALL FILL, COMPACTION, AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION SHALL BE AS PER THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT AND SHALL BE COORDINATED WITH THE APPLICABLE UTILITY COMPANY SPECIFICATIONS.
- THE CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS AND REGULATIONS, OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE "MEANS AND METHODS" REQUIRED TO MEET THE INTENT AND PERFORMANCE CRITERIA OF OSHA, AS WELL AS ANY OTHER ENTITY THAT HAS JURISDICTION FOR EXCAVATION AND/OR TRENCHING PROCEDURES.
- PAVEMENT SHALL BE SAW CUT IN STRAIGHT LINES TO THE FULL DEPTH OF THE EXISTING PAVEMENT. ALL DEBRIS FROM REMOVAL OPERATIONS SHALL BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS WILL NOT BE PERMITTED.
- THE TOPS OF EXISTING MANHOLES, INLET STRUCTURES, AND SANITARY CLEANOUT TOPS SHALL BE ADJUSTED, IF REQUIRED, TO MATCH PROPOSED GRADES IN ACCORDANCE WITH ALL APPLICABLE STANDARDS.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO ENSURE 0.75% MINIMUM SLOPE ALONG ALL ISLANDS, GUTTERS, AND CURBS; 1.0% ON ALL CONCRETE SURFACES; AND 1.5% MINIMUM ON ASPHALT, TO PREVENT PONDING. ANY DISCREPANCIES THAT MAY AFFECT THE PUBLIC SAFETY OR PROJECT COST MUST BE IDENTIFIED TO THE ENGINEER IN WRITING IMMEDIATELY. PROCEEDING WITH CONSTRUCTION WITHOUT NOTIFICATION IS DONE SO AT THE CONTRACTOR'S OWN RISK.
- PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MINIMUM OF 0.75% GUTTER GRADE ALONG CURB FACE. ENGINEER TO APPROVE FINAL CURBING CUT SHEETS PRIOR TO INSTALLATION.
- IN CASE OF DISCREPANCIES BETWEEN PLANS OR RELATIVE TO OTHER PLANS, THE SITE PLAN WILL TAKE PRECEDENCE. IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY CONFLICTS.
- CONTRACTOR SHALL BE REQUIRED TO SECURE ALL NECESSARY PERMITS AND APPROVALS FOR ALL OFF-SITE MATERIAL SOURCES AND DISPOSAL FACILITIES. CONTRACTOR SHALL SUPPLY A COPY OF APPROVALS TO ENGINEER AND OWNER PRIOR TO INITIATING WORK.
- SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
- SEE EROSION CONTROL PLAN FOR EROSION CONTROL MEASURES AND NOTES.
- ALL EXISTING STRUCTURES, UNLESS OTHERWISE NOTED TO REMAIN, FENCING, TREES, & ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED & DISPOSED OF OFF SITE. NO ON SITE BURNING WILL BE ALLOWED.
- ALL DRAINAGE STRUCTURES SHALL BE PRE-CAST.
- ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES SHALL MEET HEAVY DUTY TRAFFIC (H20) LOADING AND BE INSTALLED ACCORDINGLY.
- GENERAL CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAY PRIOR TO EXCAVATION. CONTRACTOR SHALL CONTACT UTILITY LOCATING COMPANY AND LOCATE ALL UTILITIES PRIOR TO GRADING START.
- NO PART OF THE PROPOSED PROJECT IS LOCATED WITHIN A FLOOD HAZARD AREA.
- SPOT ELEVATIONS SHOWN ARE @ EDGE OF PAVEMENT UNLESS OTHERWISE NOTED ON PLAN.
- ALL CONCRETE CURB & GUTTER SHALL BE TYPE B-6.18 CURB UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL STORM SEWER JOINTS SHALL HAVE O-RING GASKETS.
- MATCH EXISTING GRADES AT PROPERTY LINES AND/OR CONSTRUCTION LIMITS.
- BACKFILL TO THE TOP OF CURBS.
- SITE SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS.
- ALL SIDEWALK CROSS SLOPES SHALL BE A MAXIMUM OF 1.5%.
- DESIGNATED HANDICAP PARKING AREAS SHALL BE GRADED TO A MAXIMUM OF 1.5%.
- SLOPES IN PAVEMENT SHALL BE UNIFORM TO AVOID PONDING OF PAVEMENT.
- THE CONTRACTOR SHALL CONFINE HIS GRADING OPERATIONS TO WITHIN CONSTRUCTION LIMITS AND EASEMENTS SHOWN ON THE PLANS. ANY DAMAGE TO PROPERTIES OUTSIDE THE SITE BOUNDARY SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL APPLY NECESSARY MOISTURE CONTROL TO THE CONSTRUCTION AREA AND HAUL ROADS TO PREVENT THE SPREAD OF DUST.
- ALL FIELD TILES ENCOUNTERED SHALL BE REPLACED AND/OR CONNECTED TO THE STORM SEWER SYSTEM AND LOCATED AND IDENTIFIED ON THE RECORD PLANS BY THE CONTRACTOR.
- ALL STORM DRAINAGE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT CITY OF FITCHBURG STANDARDS & SPECIFICATIONS AND THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES STANDARDS.



- GENERAL NOTES:**
- ACCESSIBLE PARKING, RAMPS, AND SIGNAGE SHALL COMPLY WITH ADA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES.
 - ALL WORK SHALL BE IN ACCORDANCE WITH OSHA CODES AND STANDARDS, NOTHING INDICATED ON THE DRAWINGS SHALL RELIEVE THE CONTRACTOR FROM COMPLYING WITH ANY APPROPRIATE SAFETY REGULATIONS.
 - 1 WEEK PRIOR TO CONSTRUCTION WITHIN CITY OR STATE ROW OR ANY CONNECTION TO PUBLIC SEWERS, CONTRACTOR SHALL NOTIFY THE APPROPRIATE CITY ENGINEERING DIVISION.
 - CONTRACTOR TO VERIFY BUILDING DIMENSIONS WITH ARCHITECTURAL PLANS. PLACE 3/4" INCH EXPANSION JOINT BETWEEN ALL P.C.C. PAVEMENT/ SIDEWALKS AND BUILDING. PLACE 1/2" INCH EXPANSION JOINT BETWEEN SIDEWALKS AND P.C.C. PAVEMENT. CUT/TRIM EXPANSION JOINTS TO BE FLUSH WITH SURFACE.
 - ALL PROPERTY PINS SHALL BE PROTECTED FROM GRADING OR OTHER OPERATIONS. ANY PINS DISTURBED SHALL BE RESET AT THE CONTRACTOR'S EXPENSE.
 - DO NOT STORE CONSTRUCTION MATERIALS AND EQUIPMENT IN THE RIGHT-OF-WAY.
 - THE CONTRACTOR SHALL NOT DISTURB DESIRABLE GRASS AREAS AND DESIRABLE TREES OUTSIDE THE CONSTRUCTION LIMITS. THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK OR SERVICE VEHICLES AND EQUIPMENT OR USE THESE AREAS FOR STORAGE OF MATERIALS. STORAGE, PARKING AND SERVICE AREAS WILL BE SUBJECT TO THE APPROVAL OF THE OWNER.
 - THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY AREAS OF PAVEMENT OR SIDEWALK NOT TO BE REMOVED THAT IS DAMAGED DUE TO OPERATING EQUIPMENT ON THE PAVEMENT OR SIDEWALK.
 - THE CONTRACTOR MAY BE REQUIRED TO PLACE TEMPORARY WARNING DEVICES AND SAFETY FENCE AT CERTAIN LOCATIONS WHERE REPLACEMENT FEATURES ARE NOT INSTALLED THE SAME DAY, AS DIRECTED BY THE ENGINEER OR THE CITY.
 - ALL CONSTRUCTION WITHIN PUBLIC ROW/EASEMENTS AND/OR ANY CONNECTION TO PUBLIC SEWERS AND STREETS, SHALL COMPLY WITH THE CITY CONSTRUCTION SPECIFICATIONS FOR SUBDIVISIONS AND LATEST EDITION OF WISDOT DESIGN STANDARDS.
 - EXCAVATION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.
 - CONTRACTOR TO GRADE 4" BELOW THE BACK OF CURB TO ALLOW FOR THE PLACEMENT OF TOPSOIL. A MINIMUM OF 4" OF TOPSOIL SHALL BE PLACED IN ALL PLANTING BEDS AND ALL GRASSSED AREAS. GRADED AREAS TO BE HELD DOWN TO THE APPROPRIATE ELEVATION TO ACCOUNT FOR TOPSOIL. SEE SHEET L-101 FOR DETAILS.

- TRAFFIC CONTROL NOTES:**
- ALL APPLICABLE CITY PERMITS, INCLUDING BUT NOT LIMITED TO CLOSURE PERMITS, SHALL BE OBTAINED PRIOR TO ANY CONSTRUCTION WITHIN CITY ROW OR LANE CLOSURES.
 - ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - SIDEWALK CLOSED SIGNS REQUIRED FOR ALL SIDEWALK CLOSURES.
 - THE CONTRACTOR IS CAUTIONED NEITHER TO OBSTRUCT NOR REMOVE ANY EXISTING PAVEMENT, NOR TO DISTURB THE EXISTING TRAFFIC PATTERNS MORE THAN IS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.

ST-# STORM TAGS

- SEE SHEET PS-101 FOR STORM SEWER TAGS

NOTE:

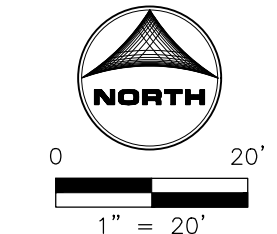
- ALL STORM STRUCTURES WITHIN PAVED AREAS REQUIRE WEEP HOLES. SEE DETAIL 10 ON SHEET C-403 FOR WEEP HOLE DETAILS.

EXISTING SURFACE NOTE:

- EXISTING SURFACE CONTOURS ON PLAN SHOW SITE MASS GRADING CONDITIONS TO BE PREPARED BY LANDLORD. LANDLORD IS RESPONSIBLE FOR PROVIDING CFA A PAD GRADED SITE TO PROPOSED SUBGRADE ELEVATIONS.

SITE DATA:

- LOT SIZE: 74,058± SQ. FT. (1.69 AC.)
- PROPOSED IMPERVIOUS AREA: 55,360± SQ. FT. (74.8%)



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REVISION SCHEDULE NO.	DATE	DESCRIPTION

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ENGINEER'S PROJECT #	2402494
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SHEET **GRADING PLAN**

SHEET NUMBER **C-300**

ST-# STORM TAGS

ST-1	EXIST. STM SWR MH RIM = 1061.75 (ASSUMED) INV = 1052.37 W/NE INV = 1052.37 S (INVERTS PER LL PLANS. TO BE FIELD VERIFIED. CONTRACTOR TO NOTIFY ENGINEER WITH ANY DISCREPANCIES FROM PLAN.)	ST-20	12 LIN FT SS PVC CANOPY DRAIN, 6" SDR 26 @ 1.00%
ST-2	EXIST. 45 LIN FT SS RCP, 18" (PIPE SIZE ASSUMED) @ 1.00% (ASSUMED) STUB INV = 1052.82 (ASSUMED) (STUB INVERT TO BE FIELD VERIFIED PRIOR TO ORDERING STRUCTURES. CONTRACTOR TO NOTIFY ENGINEER WITH ANY DISCREPANCIES FROM PLAN.)	ST-21	12 LIN FT SS PVC CANOPY DRAIN, 6" SDR 26 @ 1.00%
ST-3	STM SWR CB 6' DIA., R-3235 TY A GRATE T/C = 1062.66 INV = 1052.82 N 18" RCP (TO BE VERIFIED) INV = 1058.25 S 15" RCP INV = 1056.80 SE 15" RCP	ST-22	26 LIN FT SS PVC ROOF DRAIN, 8" SDR 26 @ 1.00%
ST-4	49 LIN FT SS RCP, 15" @ 1.02%	ST-23	29 LIN FT SS PVC ROOF DRAIN, 8" SDR 26 @ 1.00%
ST-5	STM SWR CB 3' DIA., R-3235 TY A GRATE T/C = 1063.31 INV = 1058.75 N 15" RCP INV = 1058.75 W 6" PVC INV = 1058.75 SW 12" RCP	ST-24	CLEANOUT (SEE DETAIL) RIM = 1066.85 INV = 1062.05
ST-6	164 LIN FT SS RCP, 12" @ 0.95%	ST-25	7 LIN FT SS PVC ROOF DRAIN, 8" SDR 26 @ 1.00%
ST-7	STM SWR CB 4' DIA., R-3235 TY A GRATE T/C = 1065.86 INV = 1060.30 N/S 12" RCP	ST-26	36 LIN FT SS PVC ROOF DRAIN, 8" SDR 26 @ 1.00%
ST-8	92 LIN FT SS RCP, 12" @ 0.54%	ST-27	CLEANOUT (SEE DETAIL) RIM = 1066.80 INV = 1062.12
ST-9	STM SWR CB 4' DIA., R-3235 TY A GRATE T/C = 1065.96 INV = 1060.80 N/SE 12" RCP	ST-28	7 LIN FT SS PVC ROOF DRAIN, 8" SDR 26 @ 1.00%
ST-10	97 LIN FT SS RCP, 12" @ 0.41%	ST-29	7 LIN FT SS PVC ROOF DRAIN, 8" SDR 26 @ 1.00%
ST-11	STM SWR CB 4' DIA., R-3235 TY A GRATE T/C = 1066.16 INV = 1061.20 NW/E 12" RCP INV = 1061.50 N 8" PVC	ST-30	48 LIN FT SS PVC, 6" SDR 26 @ 1.00%
ST-12	76 LIN FT SS RCP, 12" @ 0.39%	ST-31	CLEANOUT (SEE DETAIL) RIM = 1065.05 INV = 1061.38
ST-13	STM SWR CB 4' DIA., R-3235 TY A GRATE T/C = 1066.26 INV = 1061.50 W 12" RCP INV = 1061.60 NE 6" PVC	ST-32	20 LIN FT SS PVC, 6" SDR 26 @ 1.00%
ST-14	90 LIN FT SS PVC, 6" SDR 26 @ 1.00%	ST-33	DUMPSTER PAD 8" FLOOR DRAIN, R-4937B RIM = 1065.30 INV = 1061.60 PROVIDE 6" (90 DEG) ELBOW AND 6" x 4" REDUCER AND 3.0 LF 4" DIP RISER
ST-15	CLEANOUT (SEE DETAIL) RIM = 1066.60 INV = 1062.50	ST-34	48 LIN FT SS PVC, 6" SDR 26 @ 1.00%
ST-16	7 LIN FT SS PVC CANOPY DRAIN, 6" SDR 26 @ 1.00%	ST-35	DUMPSTER PAD 8" FLOOR DRAIN, R-4937B RIM = 1065.25 INV = 1061.70 PROVIDE 6" (90 DEG) ELBOW AND 6" x 4" REDUCER AND 3.0 LF 4" DIP RISER
ST-17	7 LIN FT SS PVC CANOPY DRAIN, 6" SDR 26 @ 1.00%		
ST-18	83 LIN FT SS RCP, 15" @ 0.48%		
ST-19	STM SWR CB 3' DIA., R-3235 TY A GRATE T/C = 1061.41 INV = 1057.20 NW 15" RCP		

NOTE:
* ALL STORM STRUCTURES WITHIN PAVED
AREAS REQUIRE WEEP HOLES. SEE
DETAIL 10 ON SHEET C-403 FOR
WEEP HOLE DETAILS.

S-# SANITARY SEWER TAGS

S-1	EXIST. SANITARY SEWER MANHOLE CONTRACTOR TO FIELD VERIFY INVERT AND NOTIFY ENGINEER W/ ANY DISCREPANCIES FROM PLAN INV = 1054.50 (APPROXIMATE - PER LL ENGINEER)
S-1A	44 LIN FT SAN SERVICE STUB, 6" @ 1.00% (ASSUMED) INV @ END OF STUB = 1054.94 (ASSUMED) (CONTRACTOR TO VERIFY EXACT STUB LOCATION, DEPTH, & SIZE PRIOR TO ORDERING STRUCTURES. NOTIFY ENGINEER W/ ANY DISCREPANCIES FROM PLAN.)
S-2	91 LIN FT SAN SERVICE, 6" PVC SDR 26 @ 1.50%
S-3	CLEANOUT (SEE DETAIL) RIM = 1062.99 INV = 1056.30
S-4	135 LIN FT SAN SERVICE, 6" PVC SDR 26 @ 1.50% INV @ S-2 = 1056.27
S-5	SAN SEWER MH 4' DIA., R-1713 CL (SEE DETAIL) RIM = 1065.15 INV = 1058.30 NE 6" PVC INV = 1058.45 S 6" PVC
S-6	50 LIN FT SAN SERVICE, 6" PVC SDR 26 @ 1.00%
S-7	GREASE TRAP (2,000 GAL.) SEE BUILDING PLUMBING PLAN FOR DETAILS RIM(S) = 1065.55 N, 1065.55 S INV = 1059.12 (INLET) INV = 1058.95 (OUTLET)
S-8	6 LIN FT SAN SERVICE, 4" PVC SDR 35 @ 2.00%
S-9	CLEANOUT (SEE DETAIL) RIM = 1065.60 INV = 1059.24
S-10	16 LIN FT SAN SERVICE, 4" PVC SDR 35 @ 2.00% INV @ S-8 = 1059.18 INV @ BLDG = 1059.50 (VERIFY WITH ARCHITECT/PLANS)
S-11	TWO-WAY CLEAN OUT (SEE DETAIL) RIM = 1065.95 INV = +/- 1059.42
S-12	16 LIN FT SAN SERVICE, 4" PVC SDR 35 @ 3.88% INV @ S-6 = 1058.88 INV @ BLDG = 1059.50 (VERIFY WITH ARCHITECT/PLANS)
S-13	TWO-WAY CLEAN OUT (SEE DETAIL) RIM = 1065.95 INV = +/- 1059.38
S-14	TWO-WAY CLEAN OUT (SEE DETAIL) RIM = 1065.44 INV = +/- 1058.92

CONFLICT TAGS

* OMITTED FOR THIS SUBMITTAL.



Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998



CHICK-FIL-A
FITCHBURG (WI) FSU
NWQ OF McKEE RD AND FITCHRONA ROAD
FITCHBURG, WI 53719

FSU# 05918

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

PRELIMINARY

ENGINEER'S PROJECT #	2402494
PRINTED FOR	PRELIMINARY
DATE	10/07/2024
DRAWN BY:	ERN
CHECKED BY:	JFV

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**SHEET
UTILITY TAGS**

SHEET NUMBER
PS-101

PRELIMINARY
NOT FOR CONSTRUCTION



NOAA Atlas 14, Volume 8, Version 2
Location name: Madison, Wisconsin, USA*
Latitude: 43.0166°, Longitude: -89.4822°
Elevation: 1076 ft**



* source: ESRI Maps
 ** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Deborah Martin, Sandra Pavlovic, Ishani Roy, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Michael Yekta, Geoffery Bonnin

NOAA, National Weather Service, Silver Spring, Maryland

[PF tabular](#) | [PF graphical](#) | [Maps & aerals](#)

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches/hour)¹										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	4.55 (3.82-5.41)	5.21 (4.37-6.19)	6.32 (5.29-7.55)	7.31 (6.08-8.74)	8.72 (7.09-10.7)	9.88 (7.85-12.2)	11.1 (8.54-13.9)	12.3 (9.18-15.8)	14.1 (10.1-18.4)	15.5 (10.8-20.4)
10-min	3.33 (2.80-3.96)	3.81 (3.20-4.54)	4.63 (3.88-5.52)	5.35 (4.45-6.40)	6.39 (5.19-7.85)	7.23 (5.75-8.96)	8.11 (6.25-10.2)	9.04 (6.71-11.6)	10.3 (7.41-13.5)	11.3 (7.93-14.9)
15-min	2.71 (2.27-3.22)	3.10 (2.60-3.68)	3.77 (3.15-4.49)	4.35 (3.62-5.20)	5.20 (4.22-6.38)	5.88 (4.67-7.28)	6.59 (5.08-8.30)	7.34 (5.46-9.42)	8.38 (6.02-11.0)	9.20 (6.45-12.1)
30-min	1.88 (1.58-2.23)	2.15 (1.80-2.56)	2.62 (2.19-3.12)	3.03 (2.52-3.62)	3.62 (2.94-4.45)	4.10 (3.25-5.07)	4.59 (3.54-5.78)	5.11 (3.80-6.55)	5.83 (4.19-7.62)	6.40 (4.48-8.42)
60-min	1.19 (1.00-1.42)	1.38 (1.16-1.64)	1.71 (1.43-2.03)	1.99 (1.66-2.38)	2.40 (1.95-2.95)	2.73 (2.17-3.38)	3.08 (2.37-3.88)	3.44 (2.56-4.42)	3.95 (2.84-5.16)	4.35 (3.05-5.72)
2-hr	0.724 (0.612-0.855)	0.845 (0.713-0.998)	1.05 (0.885-1.24)	1.23 (1.03-1.46)	1.50 (1.22-1.83)	1.71 (1.37-2.10)	1.93 (1.50-2.42)	2.16 (1.62-2.76)	2.49 (1.80-3.23)	2.75 (1.94-3.59)
3-hr	0.533 (0.452-0.626)	0.624 (0.529-0.734)	0.782 (0.661-0.921)	0.921 (0.775-1.09)	1.12 (0.924-1.37)	1.29 (1.04-1.58)	1.47 (1.14-1.83)	1.65 (1.24-2.10)	1.91 (1.39-2.47)	2.12 (1.50-2.76)
6-hr	0.314 (0.268-0.366)	0.366 (0.312-0.427)	0.457 (0.389-0.535)	0.539 (0.457-0.633)	0.663 (0.550-0.805)	0.765 (0.621-0.936)	0.875 (0.688-1.09)	0.993 (0.753-1.26)	1.16 (0.849-1.49)	1.29 (0.922-1.67)
12-hr	0.182 (0.156-0.211)	0.208 (0.179-0.241)	0.256 (0.219-0.297)	0.301 (0.256-0.350)	0.369 (0.310-0.448)	0.428 (0.350-0.521)	0.492 (0.390-0.608)	0.561 (0.429-0.707)	0.661 (0.488-0.848)	0.742 (0.532-0.954)
24-hr	0.104 (0.090-0.119)	0.119 (0.103-0.137)	0.146 (0.126-0.168)	0.171 (0.147-0.198)	0.210 (0.177-0.253)	0.243 (0.200-0.294)	0.279 (0.223-0.343)	0.318 (0.245-0.398)	0.375 (0.279-0.477)	0.421 (0.304-0.537)
2-day	0.058 (0.051-0.066)	0.067 (0.059-0.077)	0.084 (0.073-0.096)	0.099 (0.086-0.114)	0.122 (0.103-0.144)	0.140 (0.116-0.168)	0.160 (0.128-0.194)	0.181 (0.140-0.224)	0.211 (0.158-0.266)	0.235 (0.171-0.298)
3-day	0.042 (0.037-0.048)	0.049 (0.043-0.056)	0.060 (0.053-0.069)	0.071 (0.061-0.081)	0.086 (0.073-0.102)	0.099 (0.082-0.118)	0.113 (0.091-0.137)	0.127 (0.099-0.157)	0.148 (0.111-0.186)	0.165 (0.120-0.208)
4-day	0.034 (0.030-0.039)	0.039 (0.034-0.044)	0.048 (0.042-0.054)	0.056 (0.049-0.064)	0.068 (0.058-0.080)	0.077 (0.064-0.092)	0.088 (0.071-0.106)	0.099 (0.077-0.122)	0.115 (0.086-0.144)	0.128 (0.094-0.161)
7-day	0.023 (0.020-0.026)	0.026 (0.023-0.029)	0.031 (0.028-0.035)	0.036 (0.032-0.041)	0.043 (0.037-0.051)	0.049 (0.041-0.058)	0.056 (0.045-0.067)	0.062 (0.049-0.076)	0.072 (0.054-0.090)	0.079 (0.058-0.100)
10-day	0.018 (0.016-0.021)	0.021 (0.018-0.023)	0.025 (0.022-0.028)	0.028 (0.025-0.032)	0.034 (0.029-0.039)	0.038 (0.032-0.044)	0.042 (0.034-0.051)	0.047 (0.037-0.058)	0.054 (0.041-0.067)	0.059 (0.044-0.074)
20-day	0.012 (0.011-0.014)	0.014 (0.012-0.015)	0.016 (0.015-0.018)	0.019 (0.016-0.021)	0.022 (0.018-0.025)	0.024 (0.020-0.028)	0.026 (0.021-0.031)	0.029 (0.023-0.034)	0.032 (0.024-0.039)	0.034 (0.026-0.043)
30-day	0.010 (0.009-0.011)	0.011 (0.010-0.013)	0.013 (0.012-0.015)	0.015 (0.013-0.017)	0.017 (0.015-0.019)	0.019 (0.016-0.022)	0.020 (0.017-0.024)	0.022 (0.017-0.026)	0.024 (0.018-0.029)	0.026 (0.019-0.032)
45-day	0.008 (0.007-0.009)	0.009 (0.008-0.010)	0.011 (0.010-0.012)	0.012 (0.011-0.014)	0.014 (0.012-0.016)	0.015 (0.013-0.017)	0.016 (0.013-0.019)	0.017 (0.014-0.020)	0.019 (0.014-0.023)	0.020 (0.015-0.024)
60-day	0.007 (0.006-0.008)	0.008 (0.007-0.009)	0.009 (0.008-0.011)	0.011 (0.009-0.012)	0.012 (0.010-0.013)	0.013 (0.011-0.015)	0.014 (0.011-0.016)	0.015 (0.012-0.017)	0.016 (0.012-0.019)	0.016 (0.012-0.020)

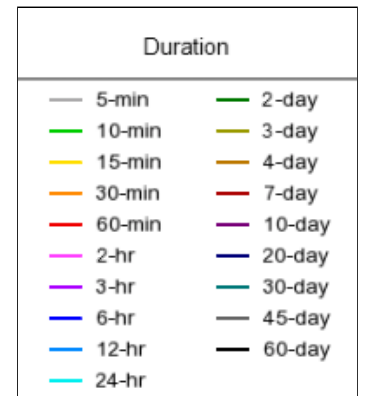
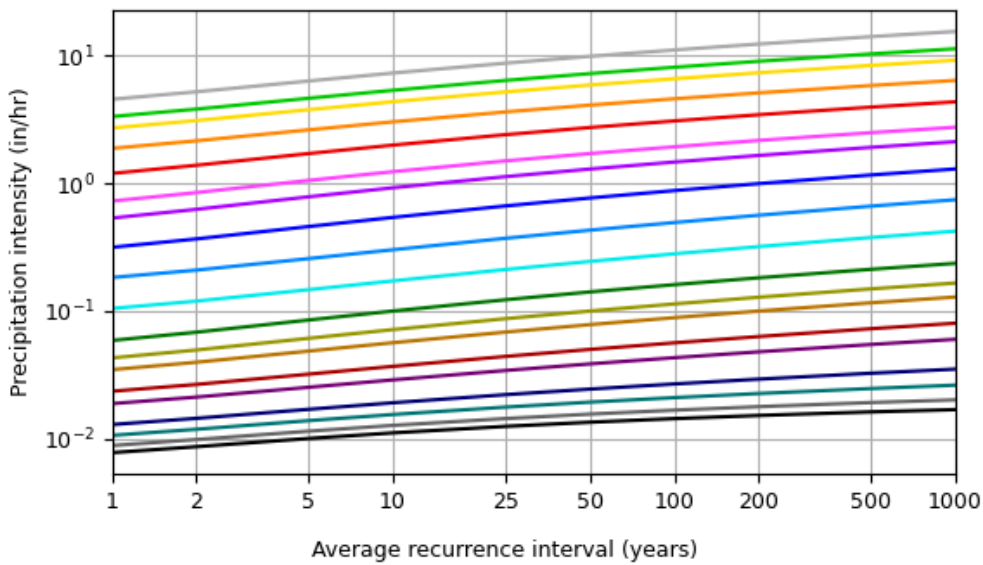
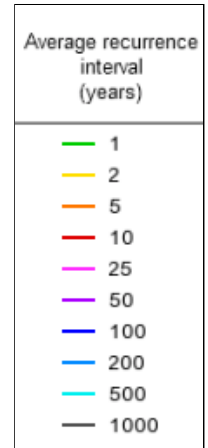
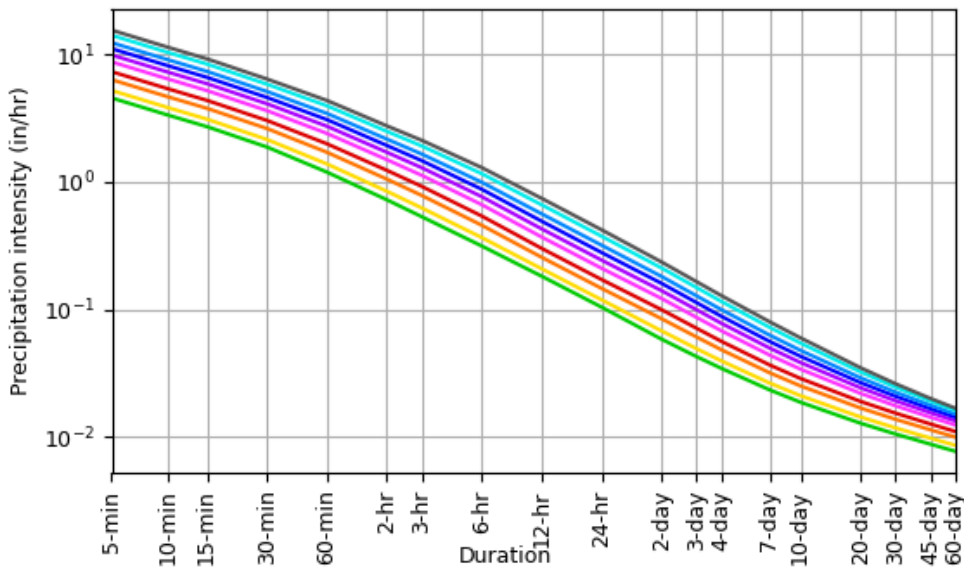
¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS). Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values. Please refer to NOAA Atlas 14 document for more information.

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PF graphical

PDS-based intensity-duration-frequency (IDF) curves

Latitude: 43.0166°, Longitude: -89.4822°



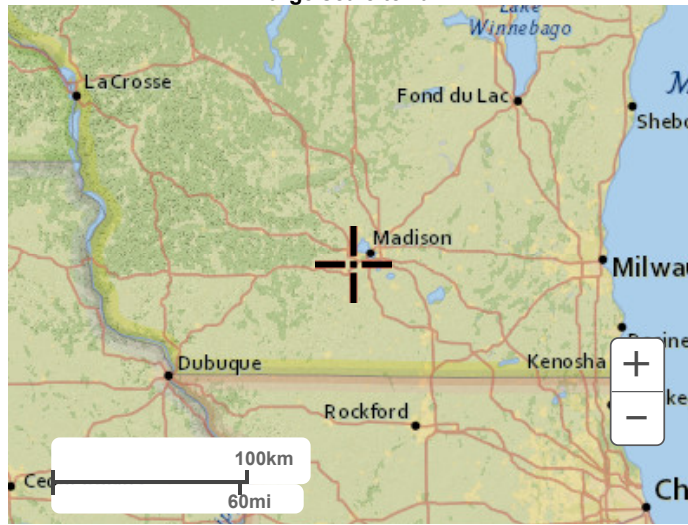
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Maps & aerials

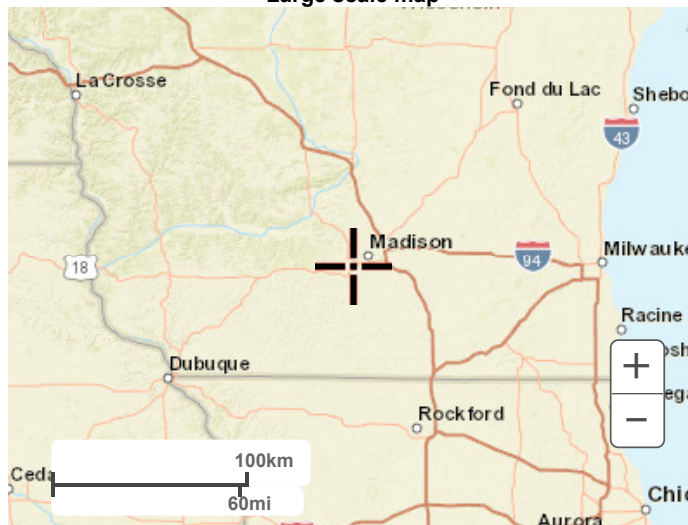
Small scale terrain



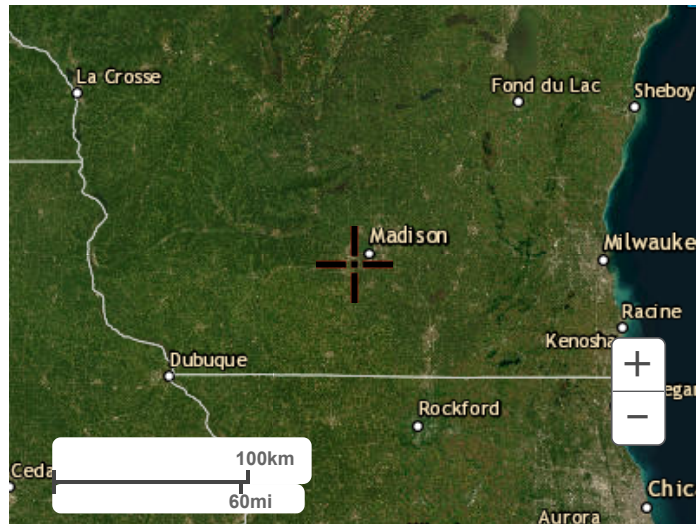
Large scale terrain



Large scale map



Large scale aerial



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