It is expected that a Quorum of the Joint Review Board, Board of Public Works, Park Board, Administration Committee, and/or Common Council may attend this meeting: (although it is not expected that any official action of any of those bodies will be taken)

CITY OF MENASHA
PLAN COMMISSION
Council Chambers
140 Main Street, Menasha

August 18, 2015
3:30 PM

AGENDA

A. CALL TO ORDER

B. ROLL CALL/EXCUSED ABSENCES

C. MINUTES TO APPROVE
   1. Minutes of the August 8, 2015 Plan Commission Meeting

D. PUBLIC COMMENT ON ANY ITEM OF CONCERN ON THIS AGENDA
   Five (5) minute time limit for each person

E. DISCUSSION
   1. Ordinance Amendment to Allow the Expansion of Existing Non-conforming Mini Storage Facilities in the C-1 and C-4 Zoning Districts

F. ACTION ITEMS
   1. Certified Survey Map – 1049 Brighton Drive
   2. Site Plan Review – Living Hope Lutheran – 1164 Province Terrace
   3. Site Plan Amendment – Habitat for Humanity – 951 Midway Road – Building Addition
   4. Easement for Trail Extension from Oak Park Place to Barker Farm Park

G. ADJOURNMENT

Menasha is committed to its diverse population. Our Non-English speaking population or those with disabilities are invited to contact the Community Development Department at 967-3650 at least 24-hours in advance of the meeting so special accommodations can be made.

CITY OF MENASHA
Plan Commission
Council Chambers, City Hall – 140 Main Street
August 4, 2015
DRAFT MINUTES

A. CALL TO ORDER

The meeting was called to order at 3:33 PM by Mayor Merkes.

B. ROLL CALL/EXCUSED ABSENCES

PLAN COMMISSION MEMBERS PRESENT: Mayor Merkes, Ald. Benner, DPW Radtke, Commissioners Sturm, DeCoster, and Schmidt.

PLAN COMMISSION MEMBERS EXCUSED: Commissioner Cruickshank.

OTHERS PRESENT: CDD Keil, AP Englebert, Lisa Miotke (Menasha Utilities), and Dan Gueths (2035 Manitowoc Road).

C. MINUTES TO APPROVE

1. **Minutes of the July 21, 2015 Plan Commission Meeting**
Motion by DPW Radtke, seconded by Ald. Benner to approve the July 21, 2015 Plan Commission meeting minutes. The motion carried 6-0.

D. PUBLIC COMMENT ON ANY ITEM OF CONCERN ON THIS AGENDA

1. No one spoke.

E. DISCUSSION

1. **Mini Storage Facilities in Commercial Districts**
CDD Keil provided an overview of the potential ramifications of allowing existing storage units to be expanded within the C-1 General Commercial District and C-4 Business Park District. Commissioners discussed the current regulations for mini storage and outdoor storage. CDD Keil indicated that the Plan Commission could consider allowing storage units as a special use in the C-1 General Commercial District and C-4 Business Park District. Mr. Gueths added that there is substantial demand for storage units. Commissioners directed staff to prepare a draft of a zoning code revision that would allow for the expansion of existing mini storage facilities as a special use in the C-1 General Commercial District and C-4 Business Park District.

F. ACTION ITEMS

1. **Utility Easement – 163, 165, 167 Main Street, Rear**
CDD Keil explained the need for the easement was based upon servicing the development of One Menasha Center. Commissioners discussed the process of dedicating easements.

   Motion by Comm. DeCoster, seconded by DPW Radtke to recommend approval of the easement pending review by the City Attorney. The motion carried 5-0 with Mayor Merkes abstaining.

2. **Utility Easement – Broad Street Parking Lot**
CDD Keil described the proposed relocation of utility services pertaining to the Broad Street Parking Structure. DPW Radtke inquired as to the finality of utility locations for the structure. Comm. Sturm cautioned against delays in approving easements for entities that rely on them.

   Motion by Comm. DeCoster, seconded by DPW Radtke to recommend approval of the easement pending review by the City Attorney. The motion carried 6-0.

3. **Land Acquisition – Woodland Developments, LLC**

CDD Keil relayed information regarding the Development Agreement approved by the Common Council with Woodland Development, LLC. The Development Agreement provides for the acquisition of lands with the purposes of future construction of a recreational trail. CDD Keil explained how the land acquisition complies with plans for the completion of a regional trail system.

Motion by DPW Radtke, seconded by Comm. Schmidt to recommend approval of land acquisition. The motion carried 6-0.

4. **Land Acquisition – 320 Chute Street**

CDD Keil explained that there is an existing Development Agreement between McClone Downtown Development, LLC and the City of Menasha for the provision of 120 parking stalls. Due to the displacement of parking stalls by construction of the Broad Street Parking Structure, there is a need for acquiring more parking stalls. Commissioners discussed the following:

- Time requirements for providing parking stalls.
- Pros and cons of acquiring the entirety of the property or only the parking lot.
- Possibility of leasing parking stalls instead of purchasing the parking lot.

Motion by DPW Radtke, seconded by Comm. Sturm to recommend approval of land acquisition for all or part of the 320 Chute Street parcel. The motion carried.

5. **Extension of Shared Use Path – Oak Park Place to Barker Farms Park**

CDD Keil discussed the need for an extension of the shared use path to better facilitate access to Barker Farms Park. Ald. Benner inquired as to future plans for a recreational trail in Barker Farms Park and whether or not the extension would connect to a future trail. Comm. Sturm asked if there would be any increased costs in delaying this item. CDD Keil stated that it would likely be cheaper if acted upon now while Oak Park Place is still being constructed. Additional information is to be gathered concerning the relationship of the proposed extension with regards to the existing trail system and other attributes within the park.

H. ADJOURNMENT

Motion by Comm. DeCoster, seconded by Ald. Benner to adjourn at 4:53 PM. The motion carried.

Minutes respectfully submitted by AP Englebert.

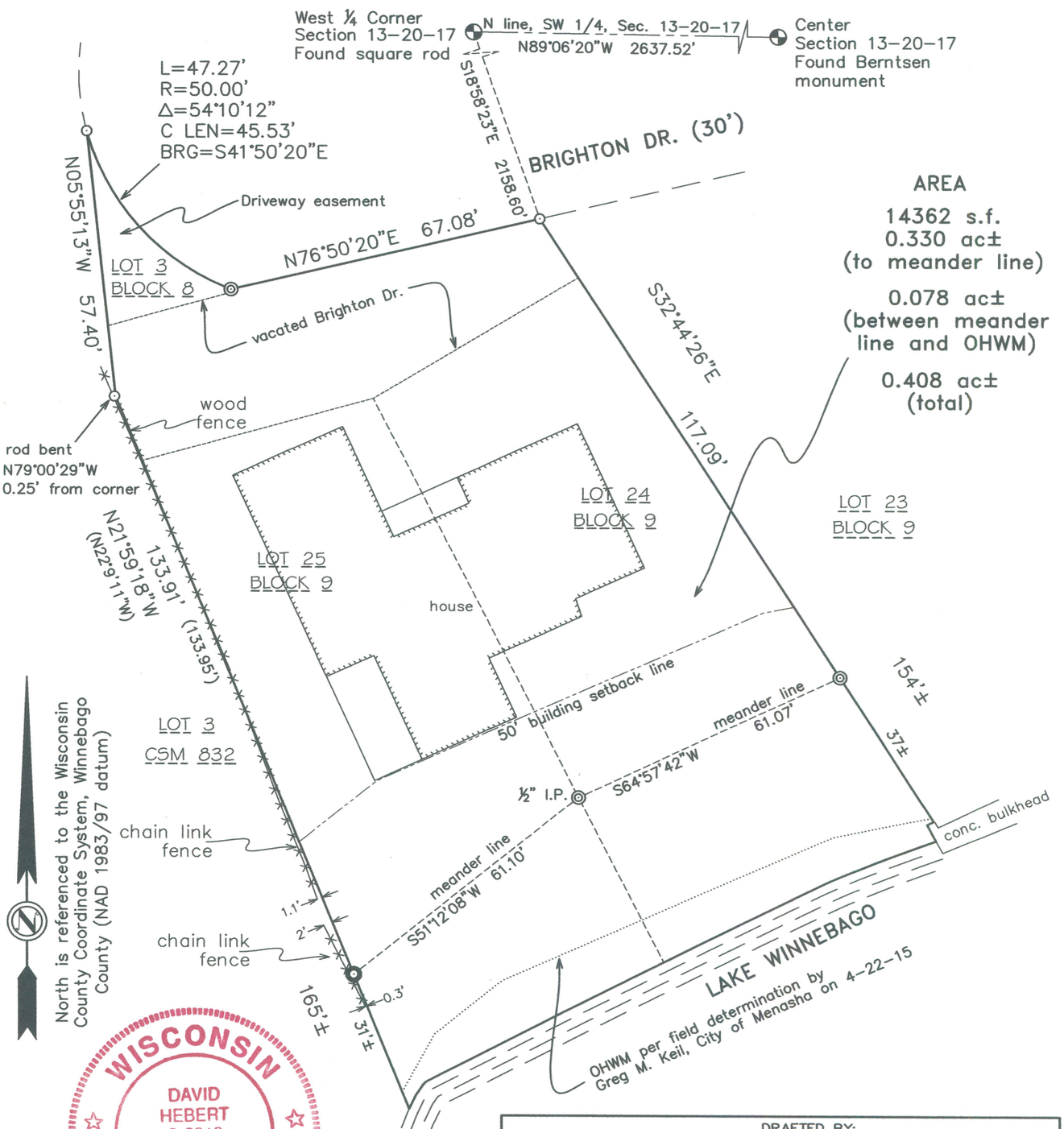
Certified Survey Map #_____

All of Lots 24 and 25, Block 9; part of Lot 3, Block 8; and part of vacated Brighton Drive, all in Brighton Beach Plat, City of Menasha, Winnebago County, Wisconsin

SCALE: 1"=30'

0 10 20 30 60

LEGEND
- = Government corner
- ⊙ = Found ¾" iron rod
- ◎ = Found 1" iron pipe (1.315" O.D.) unless specified otherwise
- ● = Found 1 ¼" iron rod
- ( ) = Recorded as
- ×-×-×-×- = Fence line
- OHWM = Ordinary High Water Mark



AREA

14362 s.f.
0.330 ac±
(to meander line)

0.078 ac±
(between meander line and OHWM)

0.408 ac±
(total)

WISCONSIN
DAVID HEBERT
S-2312
APPLETON
WI
LAND SURVEYOR

David Hebert PLS — 6-17-15 date

DRAFTED BY:

Hebert Associates, Inc.
Land Surveying • Soil Testing
1110 W. Wisconsin Ave.
Appleton, WI 54914
920–734–8373
Fax: 920–734–3968

PAGE # 1 of 2 | FILE # 15024M02

SURVEYOR'S CERTIFICATE
STATE OF WISCONSIN)
WINNEBAGO COUNTY)SS
I, David Hebert, Professional Wisconsin Land Surveyor, do hereby certify that I have surveyed, divided and mapped all of Lots 24 and 25, Block 9; part of Lot 3, Block 8; and part of vacated Brighton Drive, all in Brighton Beach Plat, City of Menasha, Winnebago County, Wisconsin which is more fully described as follows:

Commencing at the West ¼ Corner of Section 13, T20N, R17E in said City of Menasha; thence S18°58'23"E, 2158.60 feet to the point of beginning; thence S32°44'26"E, 117.09 feet to a point on a meander line of Lake Winnebago, said point being N32°44'26"W, 37 feet, more or less, from a concrete bulkhead along Lake Winnebago; thence S64°57'42"W, 61.07 feet along said meander line; thence S51°12'08"W, 61.10 feet along said meander line to a point that is N21°59'18"W, 31 feet, more or less, from Lake Winnebago; thence N21°59'18"W, 133.91 feet; thence N05°55'13"W, 57.40 feet; thence 47.27 feet along the arc of a 50.00 foot radius curve to the left whose chord bears S41°50'20"E, 45.53 feet; thence N76°50'20"E, 67.08 feet to the point of beginning.

I further certify that the map heron is a correct representation of all of the exterior boundaries of the land surveyed and the division of that land; that I have made said division by order and under direction of the owners of said lands; and that I have fully complied with the code of ordinances of the City of Menasha, Winnebago County, Wisconsin and with Chapter 236.34 of the Wisconsin statutes in surveying, dividing and mapping the same.

WISCONSIN
DAVID HEBERT S-2312 APPLETON WI
LAND SURVEYOR

David Hebert PLS — 6-17-15 Date

OWNER'S CERTIFICATE
I (We), as owner(s), do hereby certify that I (we) caused the lands described on this Certified Survey Map to be surveyed, divided, and mapped as represented on this map. I (We) further acknowledge that this map is to be approved by the City of Menasha.

Richard Mantey — 7/24/15 Dated
Kim M. Heid-Mantey — 7/24/15 Dated

STATE OF WISCONSIN)
WINNEBAGO COUNTY)SS
Personally came before me on this 24th day of July, 2015, the above named owner(s) is (are) known to be the persons who executed the foregoing instrument and acknowledge the same.

CINDY R. JOHANNES NOTARY PUBLIC STATE OF WISCONSIN

Notary Public, State of Wisconsin — My Commission Expires April 8, 2017 My commission expires

CITY PLANNING COMMISSION CERTIFICATE
Pursuant to the Land Subdivision Regulations of the City of Menasha, Wisconsin, all requirements for approval have been fulfilled. This Certified Survey Map was approved by

the City of Menasha on this _____day of _____, 20__.

Chairman, City of Menasha Planning Commission

COMMON COUNCIL RESOLUTION
This Certified Survey Map was approved by the Common Council of the City of Menasha on this ____ day of _____,

20___.

Mayor — City Clerk

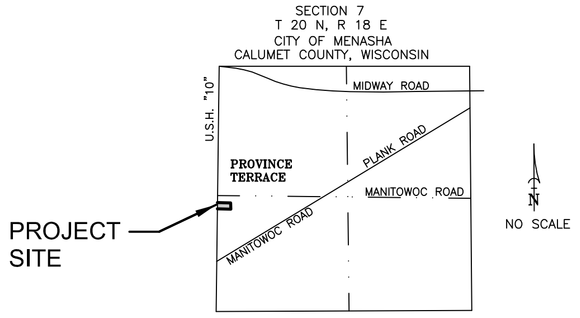
TREASURER'S CERTIFICATE
We hereby certify that there are no unpaid taxes of unpaid special assessments on any of the lands included in this Certified Survey Map.

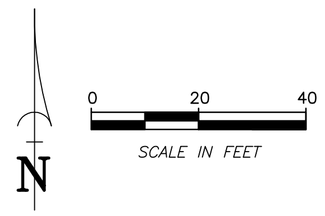
City Treasurer — Dated
County Treasurer — Dated

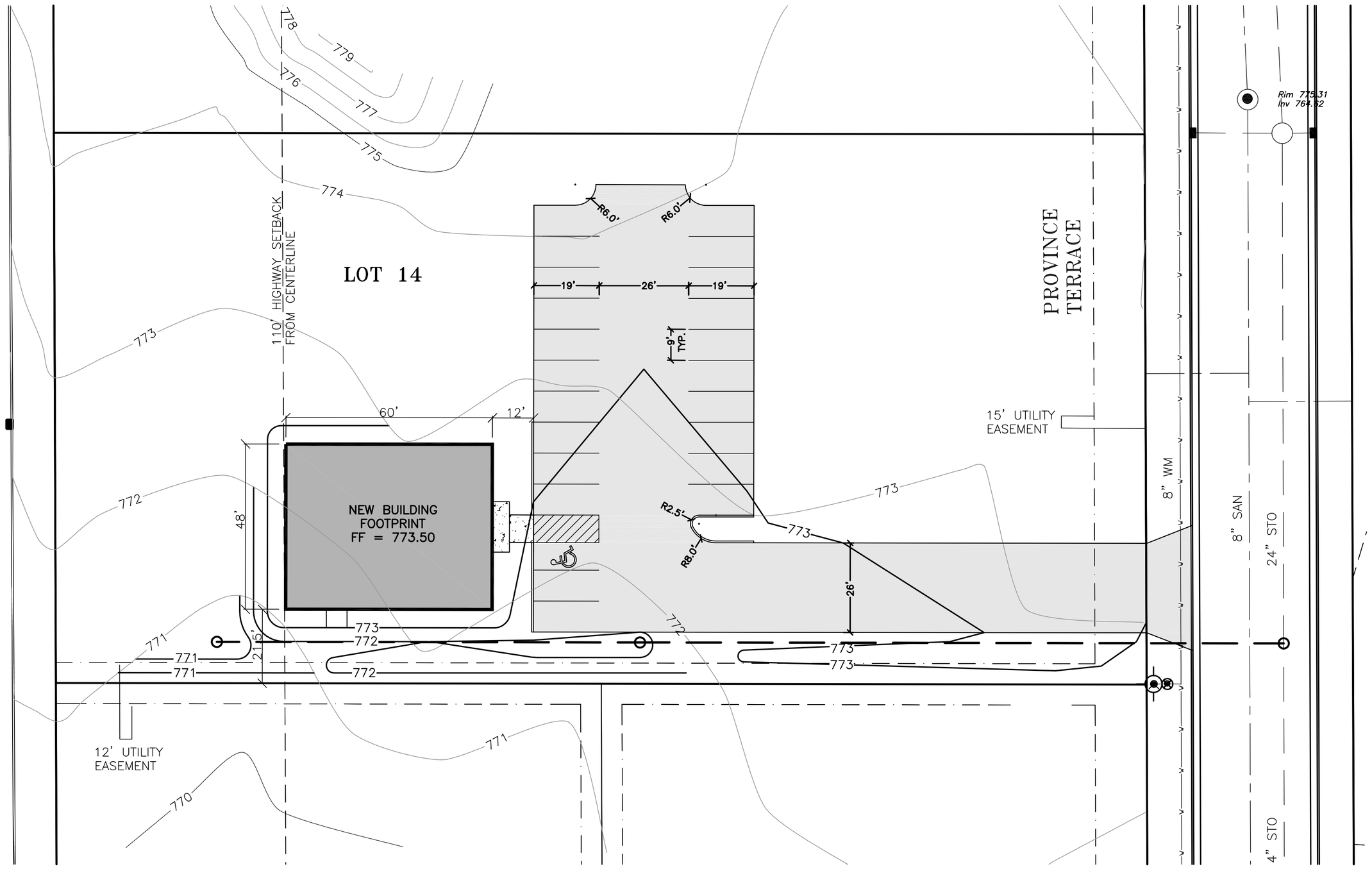
File # 15024M02

SITE PLAN: LIVING HOPE LUTHERAN

LOCATION MAP







INDEX OF SHEETS	
DRAWING NO.	DESCRIPTION:
C101	SITE PLAN
C201	UTILITY LAYOUT PLAN
C301	DRAINAGE PLAN
C401	EROSION CONTROL PLAN
C402	EROSION CONTROL DETAILS
C403	EROSION CONTROL DETAILS
C501	STANDARD DETAIL DRAWINGS

PERTINENT CONTACTS	CONTACT PERSON	PHONE
SURVEYOR	GARY ZAHRINGER	920-731-0381
ENGINEER	MIKE SIEWERT	920-731-0381
ARCHITECT	TIM CARLSON	920-731-0381

SITE PLAN NOTES

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY OF MENASHA REGULATIONS AND CODES.
2. ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
3. ALL DIMENSIONS ARE TO THE EDGE OF BUILDING OR FACE OF CURB.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
5. NO HAZARDOUS MATERIALS WILL BE STORED ON SITE.
6. ALL STOP SIGNS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION M.U.T.C.D, LATEST VERSION.
7. THE CONTRACTOR AND/OR OWNER SHALL NOT PROCEED WITH LAND DISTURBING ACTIVITIES PRIOR TO RECEIVING WRITTEN NOTICE TO PROCEED FROM THE ENGINEER.
8. NO OUTDOOR STORAGE OR DISPLAY IS PROPOSED.

BUILDING SIZE

PROPOSED BUILDING 2,880 SF

1-STORY, 48'-0"X60'-0", TYPE VB CONSTRUCTION, CHURCH (RELIGIOUS) USE. NOT FIRE SPRINKLER.

SITE DATA

LOT 1: AREA = 50,670 SF (1.16 AC)

LOT 1 PROJECT AREA

EXISTING OPEN SPACE = 50,670 SF
EXISTING IMPERVIOUS SURFACE = 0 SF
PROPOSED OPEN SPACE = 36,286 SF
PROPOSED IMPERVIOUS SURFACE = 14,384
PROPOSED DISTURBANCE AREA = 32,655 SF

ZONING DATA

CURRENT ZONING DISTRICT:
GENERAL COMMERCIAL DISTRICT (C-1)

SITE/PROJECT INFORMATION

PROPERTY ADDRESS:
1164 PROVINCE TERRACE, MENASHA, WI
PARCEL NUMBER: 7-00001-14

PARKING CALCULATIONS

PROPOSED NO. OF PARKING STALLS = 21

SIGNAGE

NO SIGNAGE AT THIS TIME.

CLIENT INFORMATION:

LIVING HOPE LUTHERAN
1113 WEST KIMBERLY AVENUE
KIMBERLY, WI 54911
PASTOR DAVID UDE
PHONE: 715-450-2968

PROPERTY OWNER:

JOHN DAVEL
1811 RACINE STREET
MENASHA, WI 54952
PHONE: 920-560-6563

PROJECT ARCHITECT:

MARTENSON & EISELE, INC.
ATTN: TIM CARLSON
1377 MIDWAY ROAD
MENASHA, WI 54952
timc@martenson-eisele.com
PHONE: 920-731-0381

ENGINEER:

MARTENSON & EISELE, INC.
ATTN: MIKE SIEWERT, P.E.
1377 MIDWAY ROAD
MENASHA, WI 54952
mikes@martenson-eisele.com
PHONE: 920-731-0381

NRCS SOILS

MbA MANAWA SILT LOAM
Hydrologic Soil Type D.

LEGAL DESCRIPTION

LOT 14, PROVINCE TERRACE,
BEING PART OF THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4, IN SECTION 7, TOWNSHIP 20 NORTH, RANGE 18 EAST, CITY OF MENASHA, CALUMET COUNTY, WISCONSIN

TOPOGRAPHIC LEGEND

- 1" x 18" IRON PIPE SET
- 1-1/4" x 30" REBAR SET
- CHISELED "X" SET
- 3/4" REBAR FOUND
- 1" IRON PIPE FOUND
- 1-1/4" REBAR FOUND
- 2" IRON PIPE FOUND
- CHISELED "X" FOUND
- GOVERNMENT CORNER
- ( ) RECORDED AS
- CONIFEROUS TREE
- DECIDUOUS TREE
- EXIST. WOODS LINE
- WETLANDS
- SOIL BORING
- OH OVERHEAD POWER LINES
- E UNDERGROUND ELECTRIC
- T UNDERGROUND TELEPHONE
- FIBER UNDERGROUND FIBEROPTIC
- G UNDERGROUND GAS
- CATV UNDERGROUND CABLE TV
- X EXIST. FENCE LINE
- SIGN
- POWER POLE
- GUY
- LIGHT POLE
- TELEPHONE PEDESTAL
- ELECTRIC PEDESTAL
- CABLE PEDESTAL
- EXIST. HYDRANT
- WATER VALVE
- WATER STOP BOX
- GAS VALVE
- EXIST STORM MANHOLE
- STORM INLET
- YARD DRAIN
- EXIST SANITARY MANHOLE
- EXIST. SAN. SEWER
- EXIST. STO. SEWER
- EXIST. WATER MAIN
- 000.00 EXIST. SPOT ELEVATION
- 000 CONTOUR W/ ELEVATION
- 000.00TC EXIST. TOP OF CURB ELEV.
- 000.00FL EXIST. FLOW LINE ELEV.
- FF = 000.00 FIRST FLOOR = 000.00
- TOPSOIL DEPTH
- INFILTRATION SOIL BORING

SITE PLAN LEGEND

- PROPOSED ASPHALT (LIGHT DUTY)
- PROPOSED CONCRETE

Martenson & Eisele, Inc.
Planning
Environmental
Surveying
Engineering
Architecture
1377 Midway Road
Menasha, WI 54952
www.martenson-eisele.com
info@martenson-eisele.com
920.731.0381 1.800.236.0381

DRAWN BY	FIELDWORK	APPROVED
EAE		MSS

NO.	DATE	REVISION

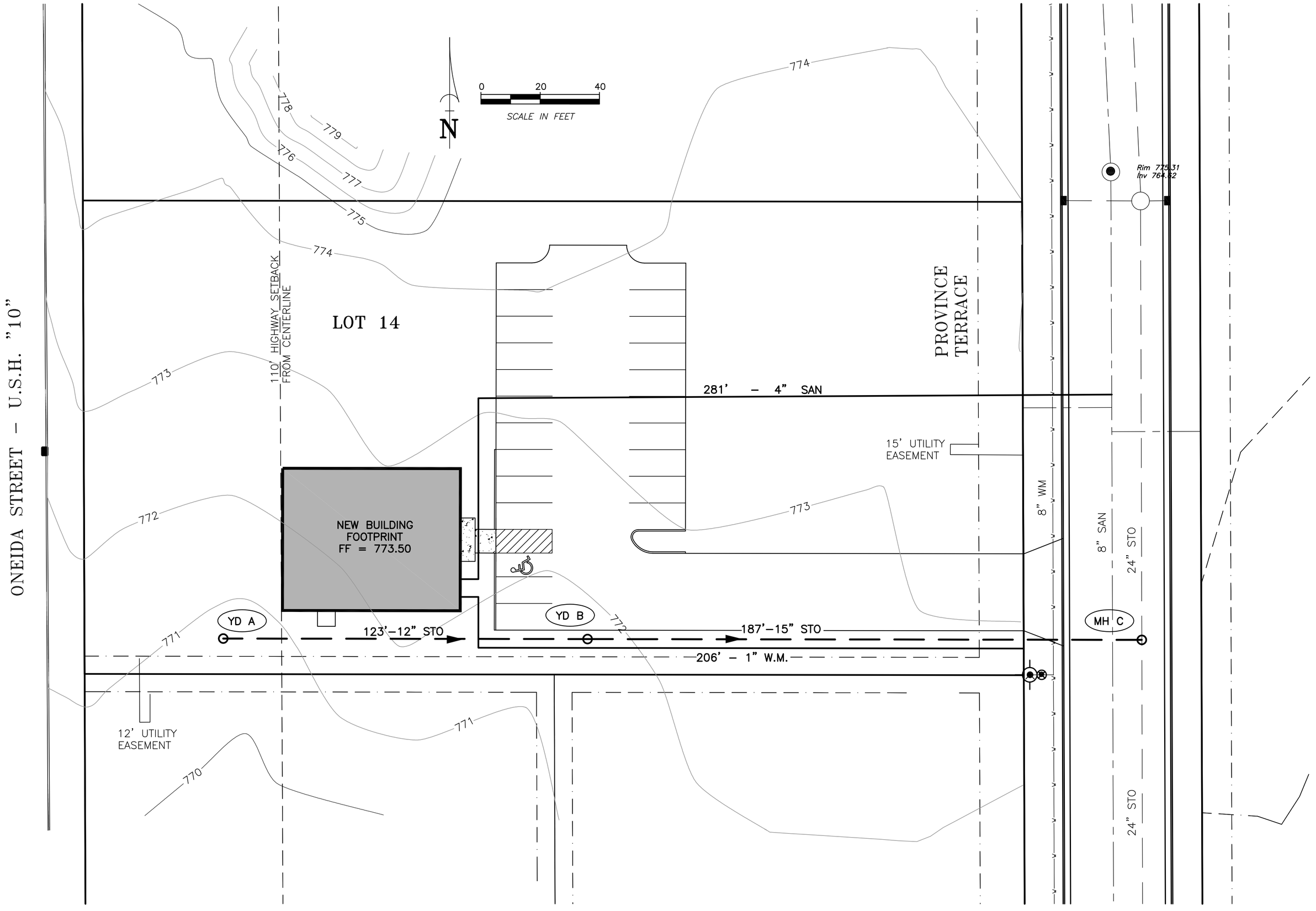
SITE PLAN
LIVING HOPE LUTHERAN
CITY OF MENASHA, CALUMET COUNTY, WISCONSIN

SCALE	DATE
BAR SCALE	8/7/2015

COMPUTER FILE
1-0538-002de.dwg

DRAWING NO.
C101

UTILITY PLAN: LIVING HOPE LUTHERAN



PROPOSED STORM SEWER UTILITY SCHEDULE					
STRUCTURE ID#	RIM ELEVATION	INVERT ELEVATION	STRUCTURE DEPTH (FT.)	SLOPE %	STRUCTURE/INLET
YD A	770.50	12" E 768.22	2.28	0.22%	36" DIA GRATED INLET
YD B	771.50	12" W 767.95 15" E 767.95	3.55	0.15%	36" DIA GRATED INLET
MH C	773.56	15" W 767.67 24" N,S 767.67	5.89	–	60" DIA NO INLET

BENCHMARK DATA		
I.D.	DESCRIPTION:	ELEVATION:
BM1	TOP OF HYDRANT NW CORNER LIGHTNING DRIVE	751.70
BM2	TOP OF HYDRANT S/S 375' E/O LIGHTNING DRIVE	751.72
BM3	TOP OF HYDRANT S/S 650' W/O PROVIDENCE AVENUE	746.89

UTILITY PLAN NOTES

1. THE LOCATION OF EXISTING UTILITY FACILITIES AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL HAVE ALL FACILITIES LOCATED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF A CONFLICT WITHIN THE WORK IS DISCOVERED.
2. ALL UTILITY CONNECTIONS SHALL BE DONE IN ACCORDANCE WITH THE "WISCONSIN STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION, 6TH EDITION" AND THE CITY OF MENASHA STANDARD SPECIFICATIONS.
3. THE CONTRACTOR AND/OR OWNER SHALL NOT PROCEED WITH CONSTRUCTION ACTIVITIES UNTIL APPROPRIATE PERMITS/APPROVALS ARE OBTAINED.
4. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS FOR CONSTRUCTION.
5. THE CONTRACTOR SHALL CLEAN UP ALL EXCESS MATERIAL AND DEBRIS CAUSED AS A RESULT OF WORK UNDER THIS CONTRACT.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE RESULTING FROM THE PERFORMANCE OF THE WORK UNDER THIS CONTRACT.
7. CONTRACTOR SHALL DISPOSE OF NON–SUITABLE MATERIAL OFF–SITE.
8. ANY EXISTING SIDEWALK DAMAGED DURING CONSTRUCTION WILL BE REPLACED AS PART OF THIS PROJECT.
9. MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAIN AND SANITARY SEWER IS 8 FEET.
10. ROOF DRAINS: THE FRONT HALF OF THE ROOF FOR EACH BUILDING WILL DISCHARGE TO GRADE AT THE FRONT OF THE BUILDING, AND THE BACK HALF OF THE ROOF FOR EACH BUILDING WILL DISCHARGE TO GRADE AT THE BACK OF THE BUILDING. DOWNSPOUTS WILL DISCHARGE TO GRADE AT ALL FOUR CORNERS OF EACH OF THE BUILDINGS.
11. SANITARY LATERALS SHALL BE 6" IN DIAMETER, AND WATER SERVICES SHALL BE 4" IN DIAMETER.

DIGGERS HOTLINE

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL 811 or
Toll Free 1–800–242–8511
(262)432–7910
Emergency Only (877) 500–9592
FAX 1–800–338–3860
FAX (414) 259–0947
Hearing Impaired TDD 1–800–542–2289

WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

UTILITY LAYOUT PLAN LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- STORM MAIN
- WATER MAIN
- SANITARY MAIN
- UTILITY LATERAL
- STORM MANHOLE
- STORM INLET
- SANITARY MANHOLE
- HYDRANT
- WV WATER VALVE

TOPOGRAPHIC LEGEND

- 1" x 18" IRON PIPE SET
- 1–1/4" x 30" REBAR SET
- CHISELED "X" SET
- 3/4" REBAR FOUND
- 1" IRON PIPE FOUND
- 1–1/4" REBAR FOUND
- 2" IRON PIPE FOUND
- CHISELED "X" FOUND
- GOVERNMENT CORNER
- ( ) RECORDED AS
- CONIFEROUS TREE
- DECIDUOUS TREE
- EXIST. WOODS LINE
- WETLANDS
- SOIL BORING
- OVERHEAD POWER LINES
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- UNDERGROUND FIBEROPTIC
- UNDERGROUND GAS
- UNDERGROUND CABLE TV
- EXIST. FENCE LINE
- SIGN
- POWER POLE
- GUY
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NO.	DATE	DRAWN BY	FIELDWORK	APPROVED
		JJR		MSS

REVISION

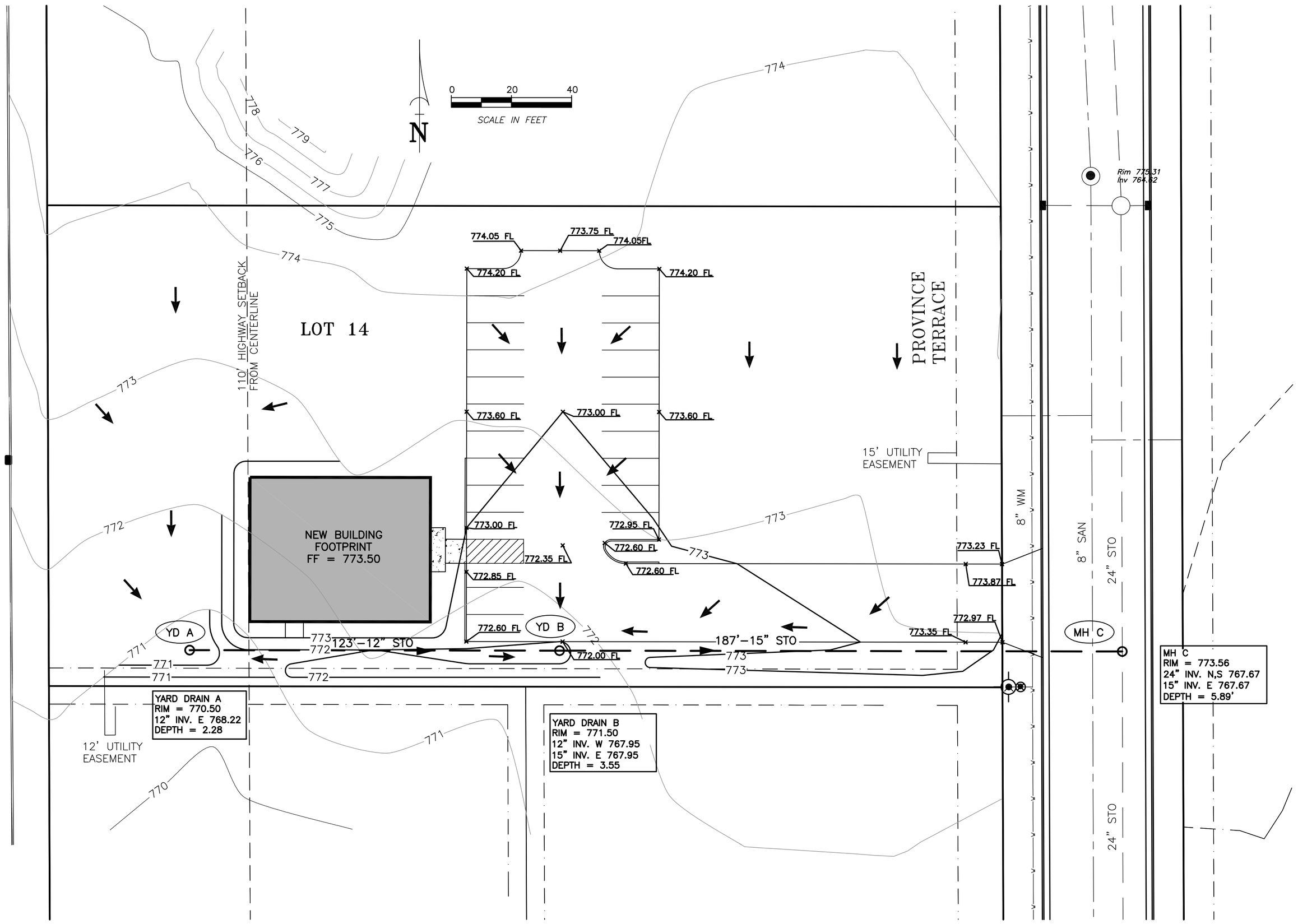
UTILITY PLAN
LIVING HOPE LUTHERAN
CITY OF MENASHA, CALUMET COUNTY, WISCONSIN

SCALE	DATE
BAR SCALE	8/7/2015

COMPUTER FILE
1-0538-002de.dwg

DRAWING NO.
C201

DRAINAGE PLAN: LIVING HOPE LUTHERAN



PROPOSED STORM SEWER UTILITY SCHEDULE					
STRUCTURE ID#	RIM ELEVATION	INVERT ELEVATION	STRUCTURE DEPTH (FT.)	SLOPE %	STRUCTURE/INLET
YD A	770.50	12" E 768.22	2.28	0.22%	36" DIA GRATED INLET
YD B	771.50	12" W 767.95 15" E 767.95	3.55	0.15%	36" DIA GRATED INLET
MH C	773.56	15" W 767.67 24" N,S 767.67	5.89	–	60" DIA NO INLET

BENCHMARK DATA		
I.D.	DESCRIPTION:	ELEVATION:
BM1	TOP OF HYDRANT NW CORNER LIGHTNING DRIVE	751.70
BM2	TOP OF HYDRANT S/S 375' E/O LIGHTNING DRIVE	751.72
BM3	TOP OF HYDRANT S/S 650' W/O PROVIDENCE AVENUE	746.89

DRAINAGE PLAN NOTES

1. THE LOCATION OF EXISTING UTILITY FACILITIES AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL HAVE ALL FACILITIES LOCATED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF A CONFLICT WITHIN THE WORK IS DISCOVERED.
2. ALL WORK UNDER THIS CONTRACT SHALL BE DONE IN ACCORDANCE WITH THE CITY OF MENASHA STANDARD SPECIFICATIONS, ALONG WITH THE LATEST EDITION OF THE STATE OF WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.
3. THE PROPOSED ELEVATIONS SHOWN ON THE DRAINAGE PLANS THAT ARE ADJACENT TO ABUTTING PROPERTIES MAY VARY FROM 5' TO 10' FROM THE PROPERTY CORNERS.
4. THE LANDSCAPER SHALL UTILIZE THE PROPOSED ELEVATIONS. THE LANDSCAPER SHALL NOT GRADE UP TO ANY PEDESTAL OR ANY OTHER STRUCTURE TO DETERMINE ELEVATION.
5. THE CONTRACTOR AND/OR OWNER SHALL NOT PROCEED WITH CONSTRUCTION ACTIVITIES UNTIL APPROPRIATE PERMITS/APPROVALS ARE OBTAINED.
6. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS FOR CONSTRUCTION.
7. THE CONTRACTOR SHALL CLEAN UP ALL EXCESS MATERIAL AND DEBRIS CAUSED AS A RESULT OF WORK UNDER THIS CONTRACT.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE RESULTING FROM THE PERFORMANCE OF THE WORK UNDER THIS CONTRACT.
9. CONTRACTOR SHALL DISPOSE OF NON–SUITABLE MATERIAL OFF–SITE.
10. AREAS WITH AN EXCESS FILL HEIGHT OF 3' SHALL BE STRIPPED OF TOPSOIL AND COMPACT EACH LAYER TO 95 PERCENT OF MAXIMUM DENSITY, OR MORE, BEFORE PLACING SUBSEQUENT LAYER.

DRAINAGE PLAN LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- STORM SEWER MAIN
- YARD DRAIN
- 2' x 3' PRECAST STORM INLET
- X 000.00 — PROPOSED PAVEMENT ELEVATION
- X (000.00) — PERTINENT DITCH OR SWALE ELEVATION
- +893.73 — EXISTING ELEVATION
- FF = 000.0 — PROPOSED GROUND AT FOUNDATION
- DIRECTION OF DRAINAGE

TOPOGRAPHIC LEGEND

- 1" x 18" IRON PIPE SET
- 1–1/4" x 30" REBAR SET
- CHISELED "X" SET
- 3/4" REBAR FOUND
- 1" IRON PIPE FOUND
- 1–1/4" REBAR FOUND
- 2" IRON PIPE FOUND
- CHISELED "X" FOUND
- GOVERNMENT CORNER
- ( ) RECORDED AS
- CONIFEROUS TREE
- DECIDUOUS TREE
- EXIST. WOODS LINE
- WETLANDS
- SOIL BORING
- OH — OVERHEAD POWER LINES
- E — E — UNDERGROUND ELECTRIC
- T — T — UNDERGROUND TELEPHONE
- FIBER — UNDERGROUND FIBEROPTIC
- G — G — UNDERGROUND GAS
- CATV — UNDERGROUND CABLE TV
- X — X — EXIST. FENCE LINE
- SIGN
- POWER POLE
- GUY
- LIGHT POLE
- TELEPHONE PEDESTAL
- ELECTRIC PEDESTAL
- CABLE PEDESTAL
- EXIST. HYDRANT
- WATER VALVE
- WATER STOP BOX
- GAS VALVE
- EXIST STORM MANHOLE
- STORM INLET
- YARD DRAIN
- EXIST SANITARY MANHOLE
- EXIST. SAN. SEWER
- EXIST. STO. SEWER
- EXIST. WATER MAIN
- 000.00 — EXIST. SPOT ELEVATION
- 000 — CONTOUR W/ ELEVATION
- 000.00c — EXIST. TOP OF CURB ELEV.
- 000.00fl — EXIST. FLOW LINE ELEV.
- FF = 000.00 — FIRST FLOOR = 000.00
- TOPSOIL DEPTH
- INFILTRATION SOIL BORING

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		JJR		MSS
			REVISION	

DRAINAGE PLAN
LIVING HOPE LUTHERAN
CITY OF MENASHA, CALUMET COUNTY, WISCONSIN

SCALE	DATE
BAR SCALE	8/7/2015

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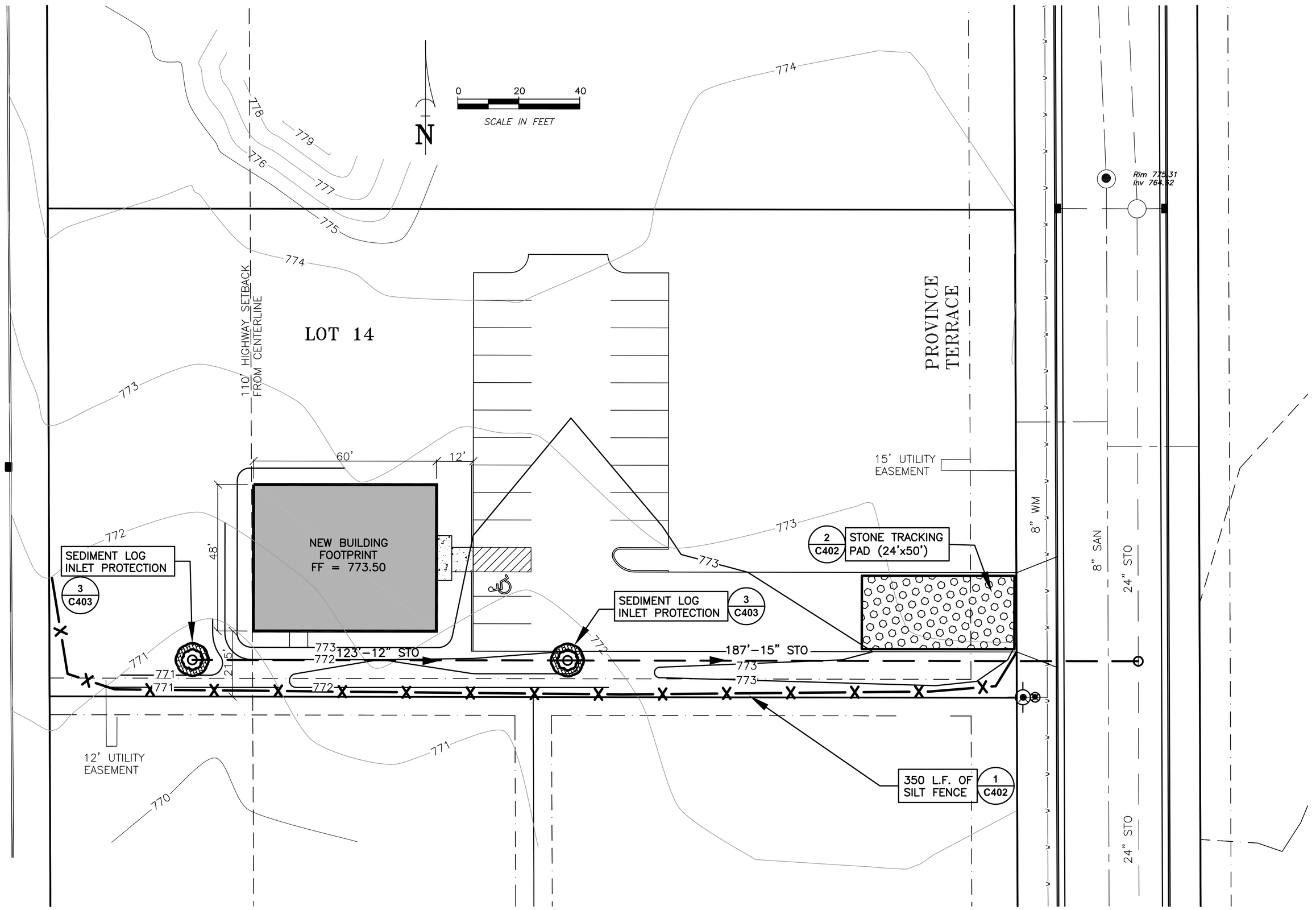
DRAWING NO.
C301

EROSION CONTROL PLAN: LIVING HOPE LUTHERAN



EROSION CONTROL NOTES

1.	THE CONTRACTOR SHALL INSTALL SILT FENCE AROUND THE PERIMETER OF THE PROJECT AS SHOWN ON THIS PLAN PRIOR TO ANY CONSTRUCTION INCLUDING STRIPPING TOPSOIL.
2.	ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL THE COMPLETION OF HIS CONTRACT.
3.	THE CONTRACTOR SHALL MAINTAIN SAID EROSION CONTROL DEVICES UNTIL THE COMPLETION OF HIS CONTRACT AND SHALL NOT REMOVE THE EROSION CONTROL DEVICES UNTIL VEGETATION IS ESTABLISHED.
4.	THE GRADING CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS IMMEDIATELY WHEN FINAL GRADE IS ESTABLISHED. SEED MIXTURE SHALL BE ACCORDING TO THE SPECIFICATIONS.
5.	THE CONTRACTORS SHALL PREVENT TRACKING ON EXISTING STREETS. ANY SEDIMENT TRACKED ONTO EXISTING STREETS SHALL BE CLEANED UP DAILY.
6.	INSTALLATION AND MAINTENANCE OF EROSION CONTROL SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS.
7.	SILT FENCES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AS SOON AS WORK IS COMPLETE IN THAT AREA.

CONTRACTOR RESPONSIBILITIES

1.	NOTIFY THE INSPECTOR WITHIN 48 HOURS OF COMMENCING ANY LAND DISTURBING OR LAND DEVELOPMENT ACTIVITY;
2.	NOTIFY THE ENGINEER OF COMPLETION OF ANY EROSION CONTROL MEASURES WITHIN 13 DAYS AFTER COMPLETION;
3.	OBTAIN PERMISSION IN WRITING FROM THE ENGINEER PRIOR TO MODIFYING THE EROSION CONTROL PLAN.
4.	INSTALL ALL EROSION CONTROL MEASURES AS IDENTIFIED IN THE APPROVED EROSION CONTROL PLAN;
5.	REPAIR ANY SILTATION OR EROSION DAMAGE TO ADJOINING SURFACES AND DRAINAGE WAYS RESULTING FROM LAND DEVELOPING OR DISTURBING ACTIVITIES;
6.	MAINTAIN ALL ON– AND OFF– SITE STORM WATER DRAINAGE SYSTEMS AS IDENTIFIED ON THE EROSION CONTROL PLAN.
7.	REPAIR ANY EROSION CONTROL SYSTEM INSTALLED IN ACCORDANCE TO THE EROSION CONTROL PLAN.
8.	INSPECT THE CONSTRUCTED EROSION CONTROL MEASURES AFTER EACH RAIN OF 0.5 INCHES OR MORE AND AT LEAST ONCE EACH WEEK AND MAKE NEEDED REPAIRS.
9.	ALLOW THE ENGINEER TO ENTER THE SITE FOR THE PURPOSE OF INSPECTING COMPLIANCE WITH THE EROSION CONTROL PLAN OR FOR PERFORMING ANY WORK NECESSARY TO BRING THE SITE INTO COMPLIANCE WITH THE EROSION CONTROL PLAN.
10.	KEEP A COPY OF THE APPROVED EROSION CONTROL PLAN ON THE SITE.
11.	ALL AREAS BEING SEEDED SHOULD HAVE A MINIMUM OF 4 INCHES OF SUITABLE TOPSOIL.
12.	GRADING CONTRACTOR SHALL MAINTAIN EROSION CONTROL UNTIL TERMINATION NOTICE IS ISSUED.
13.	ALL DISTURBED AREAS SHALL BE RESTORED WITHIN 7 DAYS OF COMPLETION OF WORK WITHIN THESE AREAS. THIS INCLUDES SOIL STOCKPILES, WHICH SHALL BE STABILIZED BY MULCHING, TEMPORARY SEEDING, SODDING OR COVERING W/ TARPS.
14.	GRADE & GRAVEL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEVICES AFTER SITE STABILIZATION.

GENERAL NOTES

1.	SITE DEWATERING. WATER PUMPED FROM THE SITE SHALL BE TREATED BY TEMPORARY SEDIMENTATION BASINS OR OTHER APPROPRIATE CONTROLS DESIGNED FOR THE HIGHEST DEWATERING PUMPING RATE. WATER MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE OR RECEIVING CHANNELS. (NOT ANTICIPATED)
2.	WASTE AND MATERIAL DISPOSAL. ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED BY RUNOFF INTO A RECEIVING CHANNEL OR STORM SEWER SYSTEM.
3.	TRACKING. THIS SITE SHALL STABILIZE THE EXISTING DRIVE WITH 3" TO 6" (12" THICK) CLEAR AGGREGATE SUFFICIENT TO PREVENT SEDIMENT FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROAD WAYS AS APPROVED BY THE INSPECTOR. ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BEFORE THE END OF EACH WORK DAY. FLUSHING MAY NOT BE USED UNLESS THE SEDIMENT WILL BE CONTROLLED BY A FILTER FABRIC BARRIER, SEDIMENT TRAP, SEDIMENT BASIN OR EQUIVALENT. TRACKING PAD DIMENSIONS ARE SHOWN ON THE EROSION CONTROL PLAN (24'X50' MIN).
4.	DRAIN INLET PROTECTION. ALL ON–SITE STORM DRAIN INLETS AND THE IMPACTED DOWNSTREAM INLETS SHALL BE PROTECTED AS INDICATED ON THE PLAN.
5.	SEDIMENT CLEANUP. ALL OFF–SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF A STORM EVENT SHALL BE CLEANED UP BY THE END OF THE NEXT WORK DAY. ALL OTHER OFF–SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF LAND DISTURBING ACTIVITIES SHALL BE CLEANED UP BY THE END OF THE WORK DAY.
6.	DISTURBANCE TIMING. ALL ACTIVITIES ON THE SITE SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE AREA OF BARE SOIL EXPOSED AT ANY ONE TIME. EXISTING VEGETATION SHALL BE MAINTAINED AS LONG AS POSSIBLE.

EROSION CONTROL PLAN KEY LEGEND

- 1 SILT FENCE (WDNR NO. 1056) — 1 C402
- 2 TRACKING PROTECTION (WDNR NO. 1057) — 2 C402
- 3 INLET PROTECTION TYPES A,B,C, & D (WDNR NO. 1060) — 3 C402
- 4 INLET PROTECTION TYPE D–M (WDNR NO. 1060) — 4 C402
- 5 INLET PROTECTION TYPE D–HR (WDNR NO. 1060) — 5 C402
- 6 ROCKBAG CULVERT PIPE DITCH CHECK — 6 C402
- 7 TEMPORARY CONCRETE WASHOUT FACILITY — 7 C402
- 8 EROSION CONTROL MAT DETAIL (CLASS1, TYPE A) (WDNR NO. 1053) — 1 C403
- 9 EROSION CONTROL MAT DETAIL (CLASS1, TYPE B) (WDNR NO. 1053) — 2 C403
- 10 SEDIMENT LOG INLET PROTECTION (SEDIMENT LOG INLET PROTECTION SHALL BE 'CURLEX' OR 'STRAW'. UNAPPROVED WOOD CHIP LOG PRODUCTS ARE NOT ALLOWED.) — 3 C403
- 11 SEDIMENT LOG CHANNEL DITCH CHECK (SEDIMENT LOG CHANNEL PROTECTION SHALL BE 'CURLEX' OR 'STRAW'. UNAPPROVED WOOD CHIP LOG PRODUCTS ARE NOT ALLOWED.) — 4 C403

TOPOGRAPHIC LEGEND

- 1" x 18" IRON PIPE SET
- 1–1/4" x 30" REBAR SET
- CHISELED "X" SET
- 3/4" REBAR FOUND
- 1" IRON PIPE FOUND
- 1–1/4" REBAR FOUND
- 2" IRON PIPE FOUND
- CHISELED "X" FOUND
- GOVERNMENT CORNER
- ( ) RECORDED AS
- CONIFEROUS TREE
- DECIDUOUS TREE
- EXIST. WOODS LINE
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- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- UNDERGROUND FIBEROPTIC
- UNDERGROUND GAS
- UNDERGROUND CABLE TV
- EXIST. FENCE LINE
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- YARD DRAIN
- EXIST SANITARY MANHOLE
- EXIST. SAN. SEWER
- EXIST. STO. SEWER
- EXIST. WATER MAIN
- 000.00 EXIST. SPOT ELEVATION
- CONTOUR W/ ELEVATION
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JJR		MSS

NO.	DATE	REVISION

EROSION CONTROL PLAN
LIVING HOPE LUTHERAN
CITY OF MENASHA, CALUMET COUNTY, WISCONSIN

SCALE	DATE
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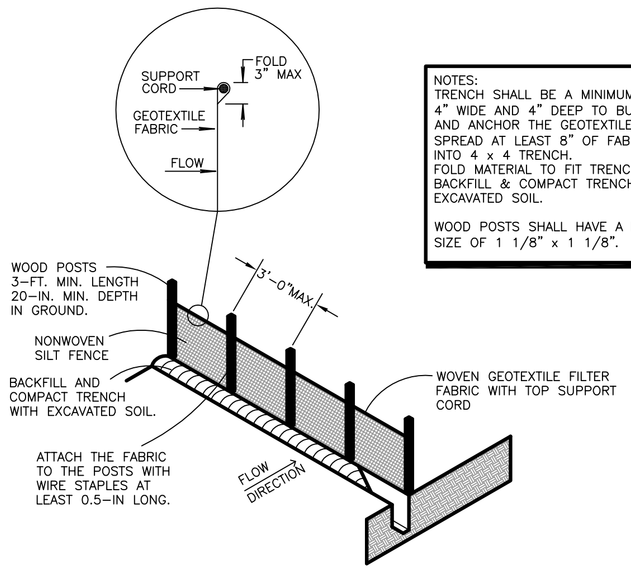
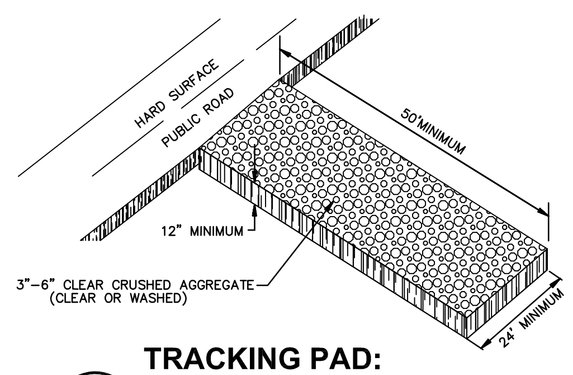
EROSION CONTROL DETAILS: LIVING HOPE LUTHERAN



NOTES:
TRENCH SHALL BE A MINIMUM OF 4" WIDE AND 4" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. SPREAD AT LEAST 8" OF FABRIC INTO 4 x 4 TRENCH. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

WOOD POSTS SHALL HAVE A MINIMUM SIZE OF 1 1/8" x 1 1/8".

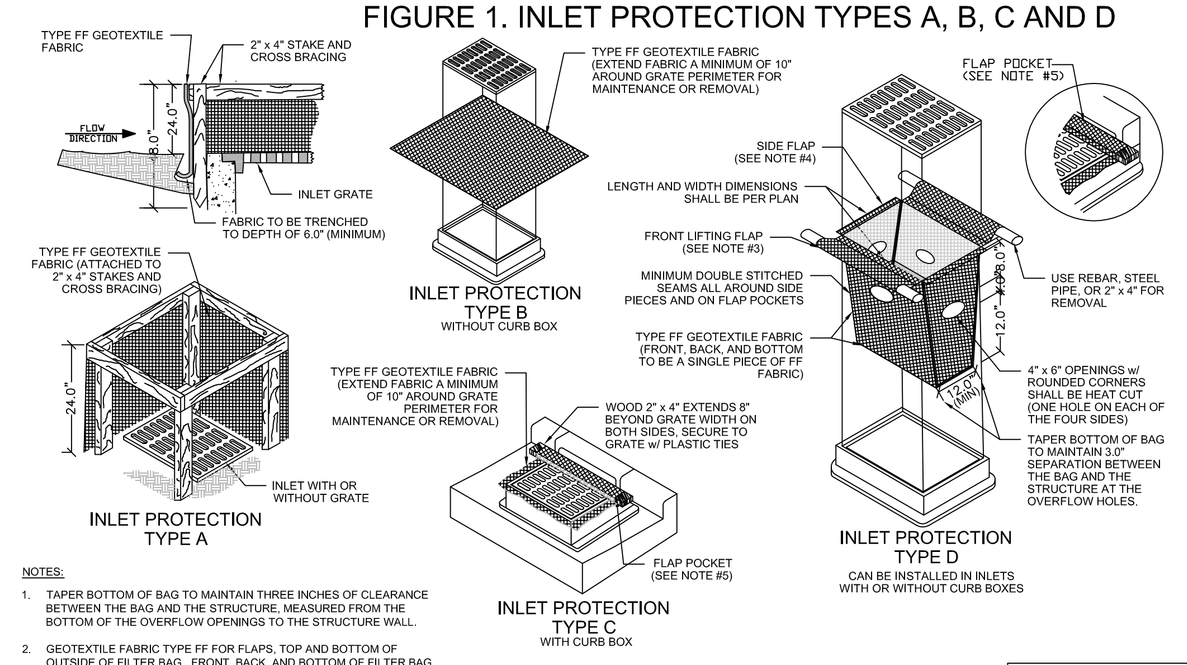
1 / C402 SILT FENCE DETAIL
NTS



2 / C402 TRACKING PAD: CONST. ENTRANCE
NTS

NOTE: DETAILS NOT UTILIZED ON PLANS ARE FOR INFORMATIONAL PURPOSES IN CASE OF UNANTICIPATED FIELD CONDITIONS.

FIGURE 1. INLET PROTECTION TYPES A, B, C AND D



NOTES:

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

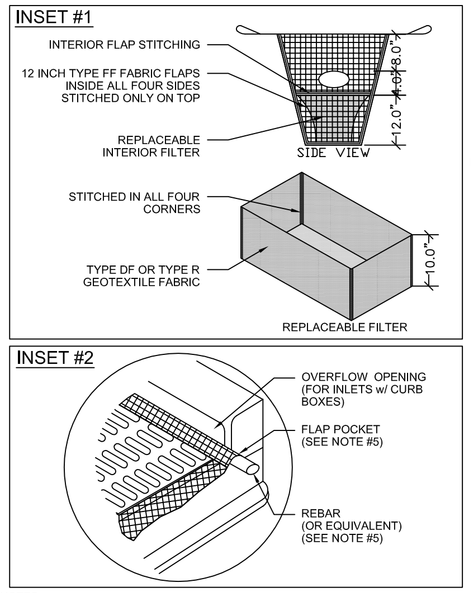
MAINTENANCE NOTES:

1. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE INLET SHALL BE IMMEDIATELY REMOVED.

3 / C402 INLET PROTECTION DETAIL TYPES A,B,C, & D
NTS

WISCONSIN DNR
1060 TECHNICAL STANDARD No.
08/2014 REVISION DATE
NOT TO SCALE

FIGURE 2. INLET PROTECTION TYPE D-M



NOTES:

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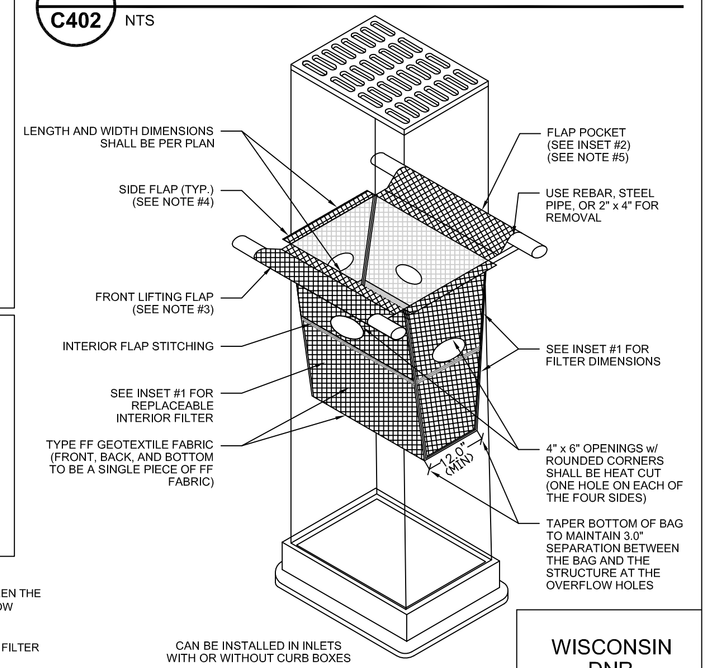
5. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" x 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.

4 / C402 INLET PROTECTION DETAIL TYPE D-M
NTS

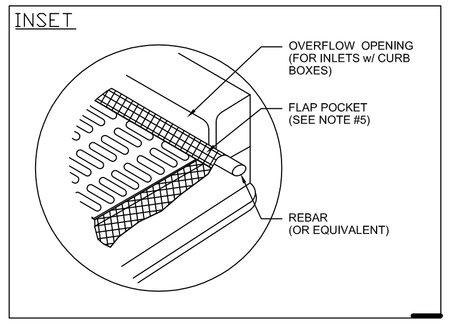


MAINTENANCE NOTES:

1. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE STRUCTURE SHALL BE IMMEDIATELY REMOVED.

WISCONSIN DNR
1060 TECHNICAL STANDARD No.
08/2014 REVISION DATE
NOT TO SCALE

5 / C402 INLET PROTECTION DETAIL TYPE D-HR
NTS



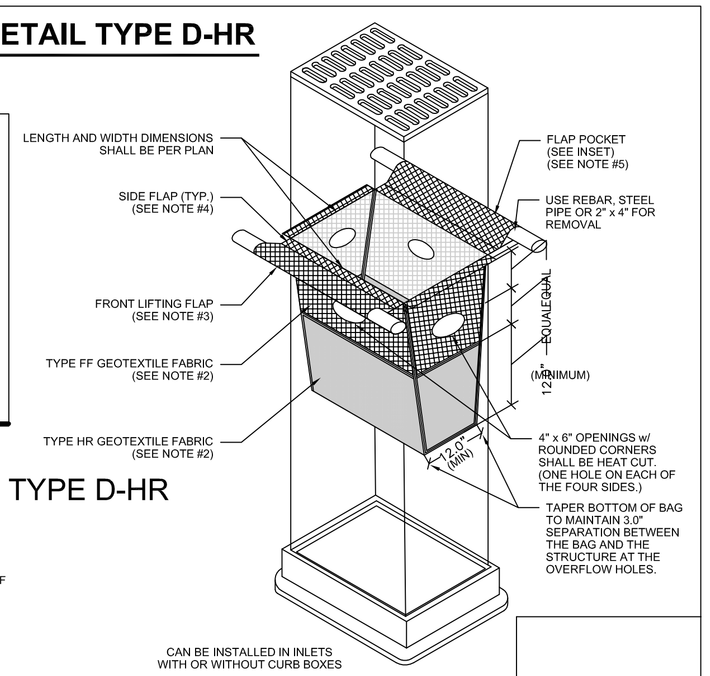


FIGURE 3. INLET PROTECTION TYPE D-HR

NOTES:

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

MAINTENANCE NOTES:

1. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE STRUCTURE SHALL BE IMMEDIATELY REMOVED.

1060 TECHNICAL STANDARD No.
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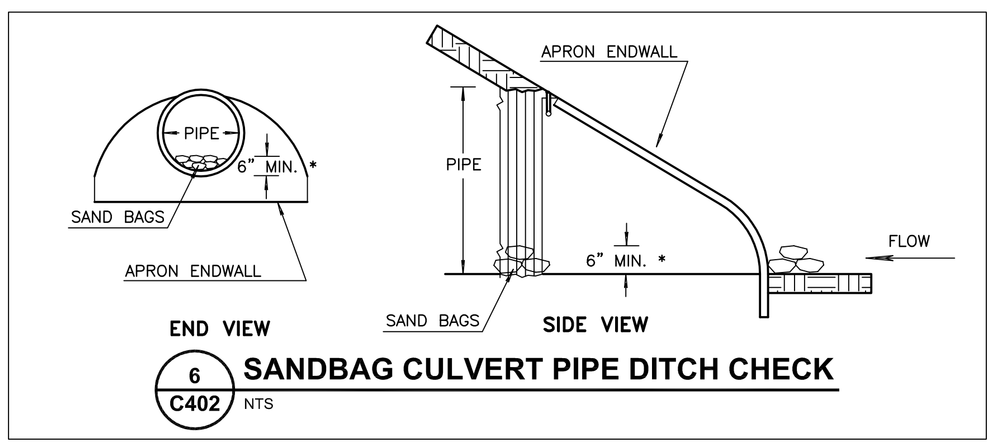
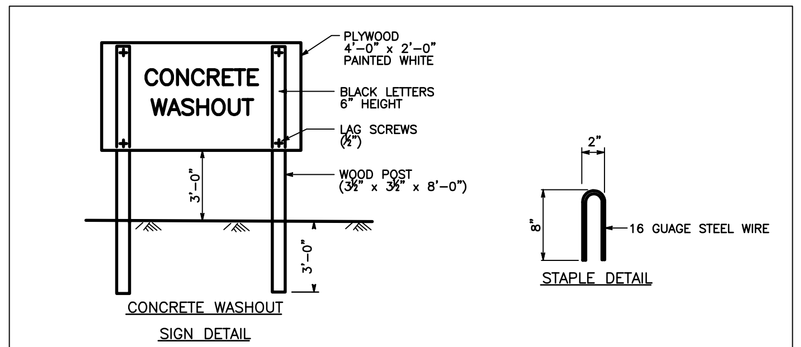
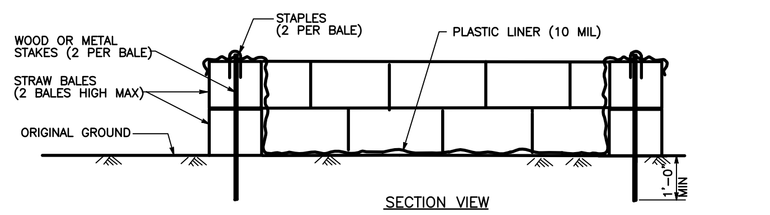
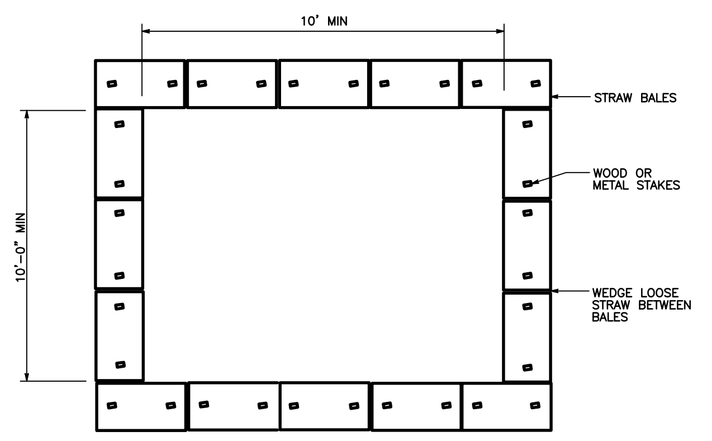


6 / C402 SANDBAG CULVERT PIPE DITCH CHECK
NTS







NOTES:
1. ACTUAL LAYOUT TO BE DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

7 / C402 TEMPORARY CONCRETE WASHOUT FACILITY
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REVISION: MISS

EROSION CONTROL DETAILS
LIVING HOPE LUTHERAN
CITY OF MENASHA, CALUMET COUNTY, WISCONSIN

SCALE	DATE
BAR SCALE	8/7/2015

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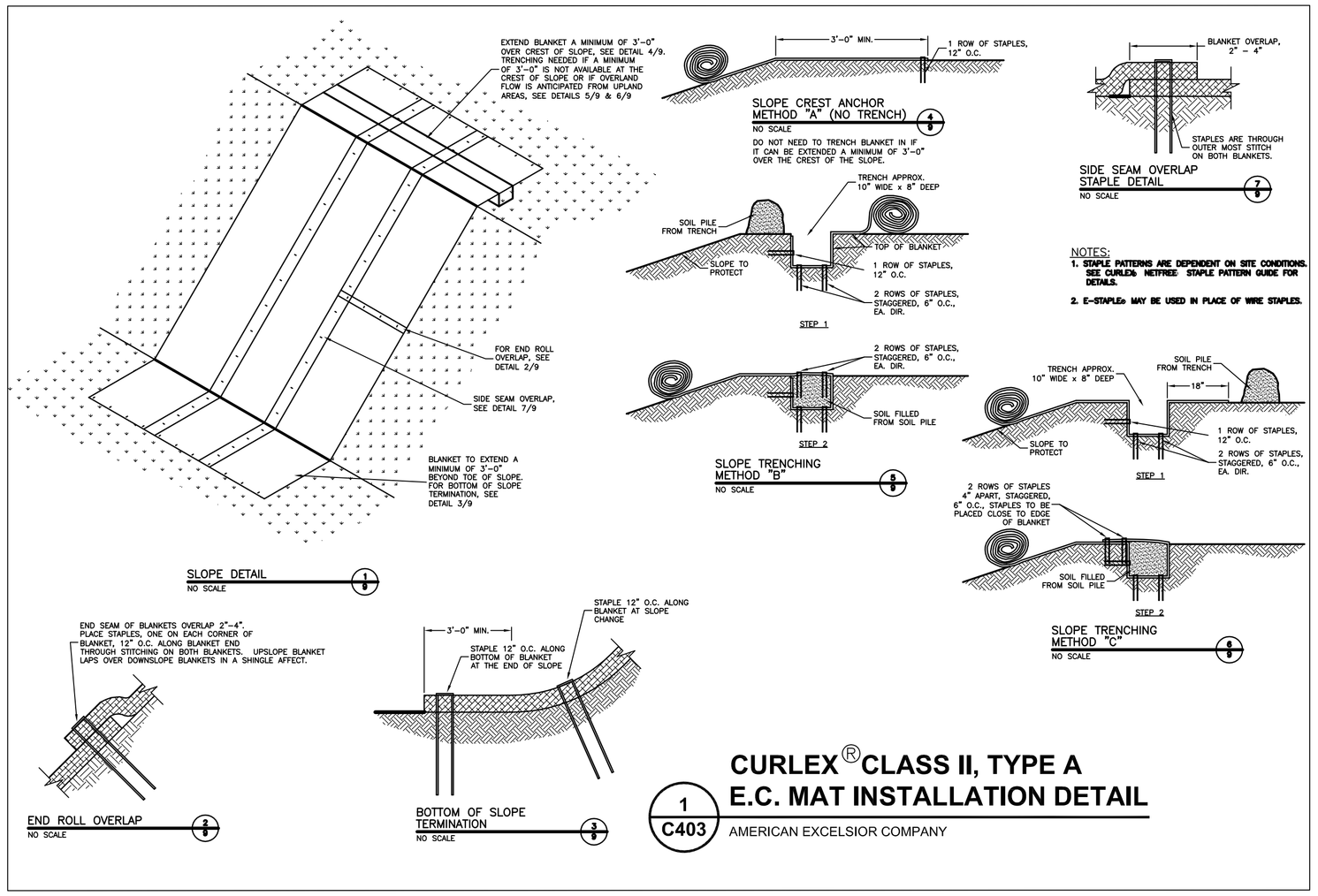
DRAWING NO.
C402

NOTE: DETAILS NOT UTILIZED ON PLANS ARE FOR INFORMATIONAL PURPOSES IN CASE OF UNANTICIPATED FIELD CONDITIONS.

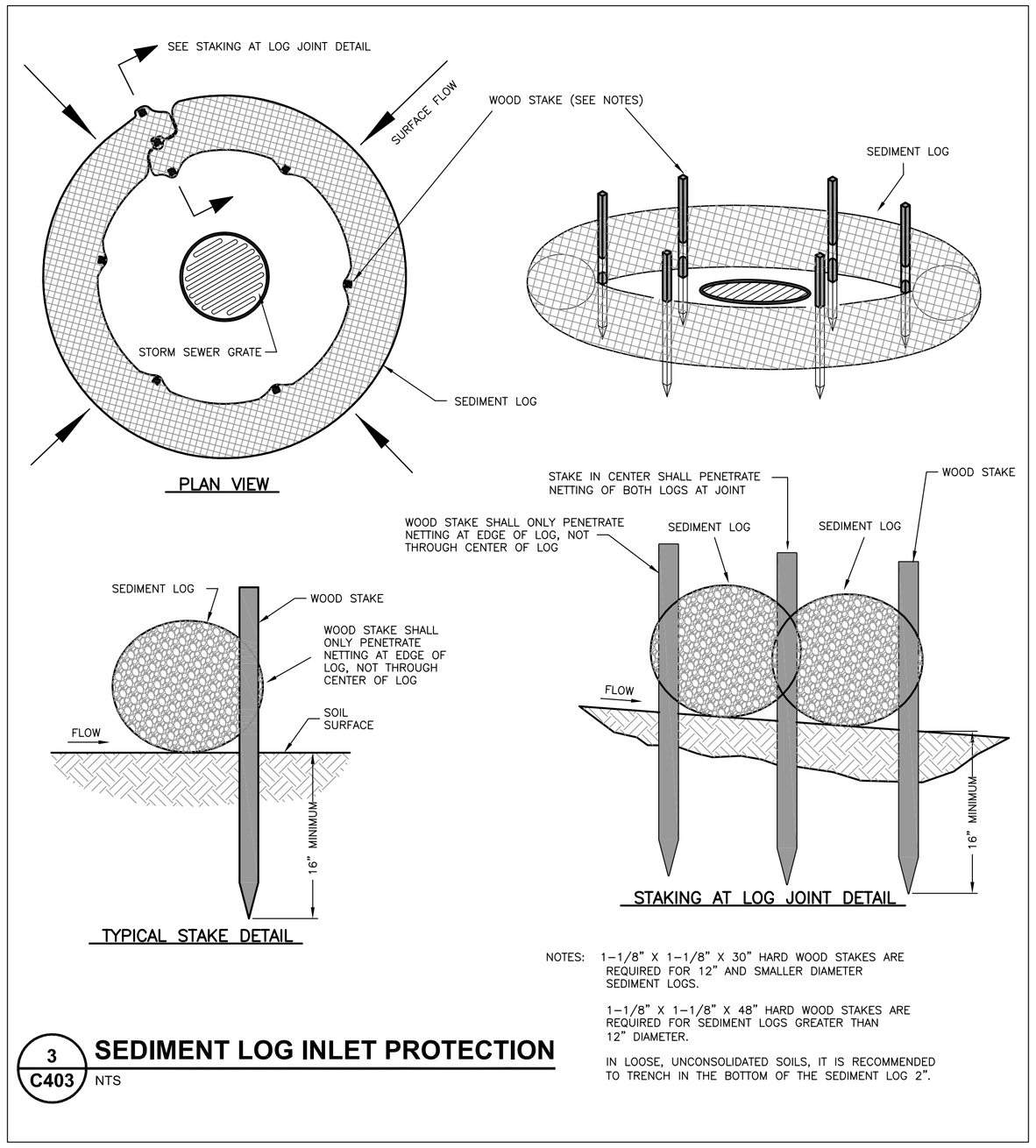
EROSION CONTROL DETAILS: LIVING HOPE LUTHERAN



CURLEX® CLASS II, TYPE A E.C. MAT INSTALLATION DETAIL

1 / C403

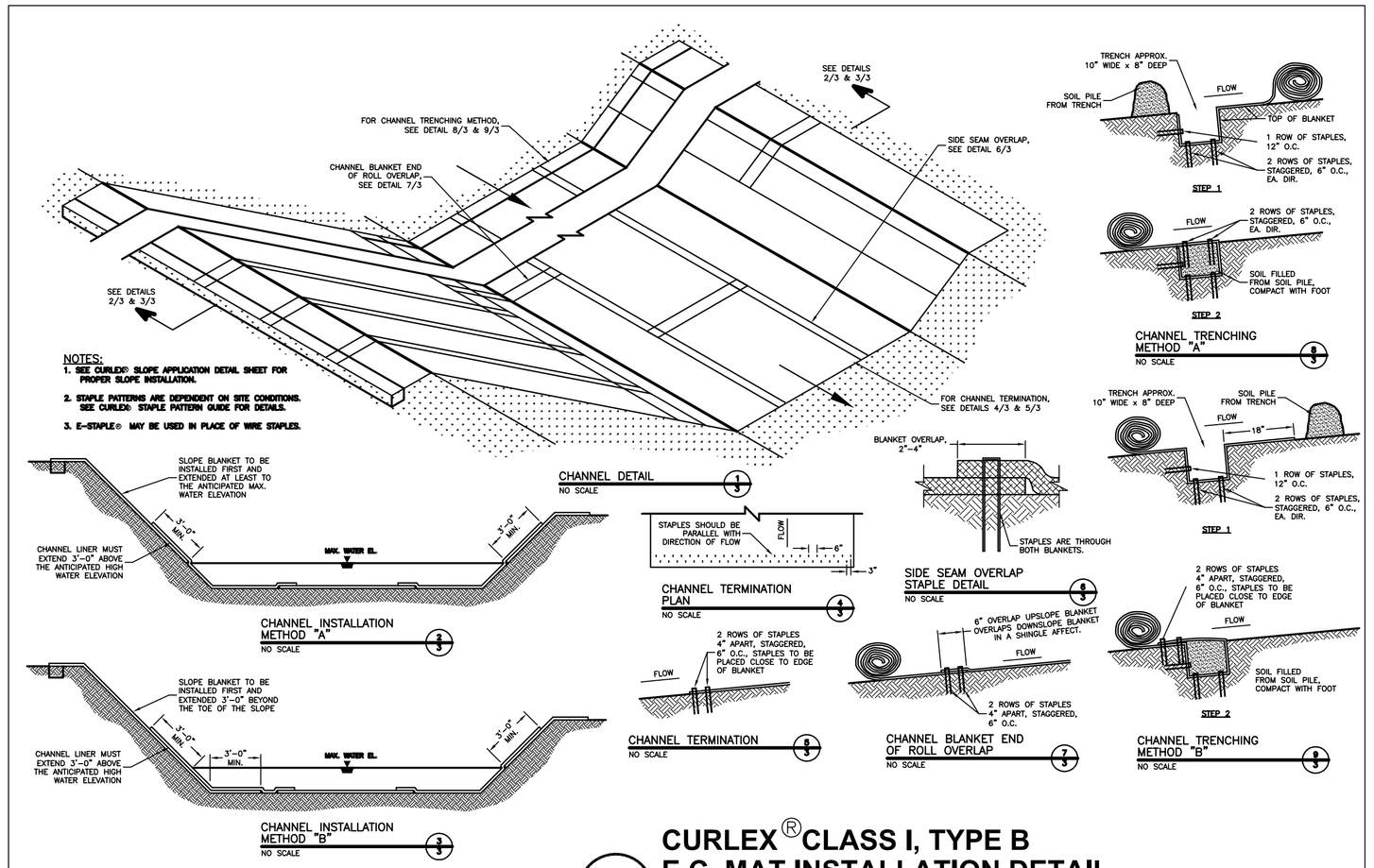
AMERICAN EXCELSIOR COMPANY



SEDIMENT LOG INLET PROTECTION

3 / C403

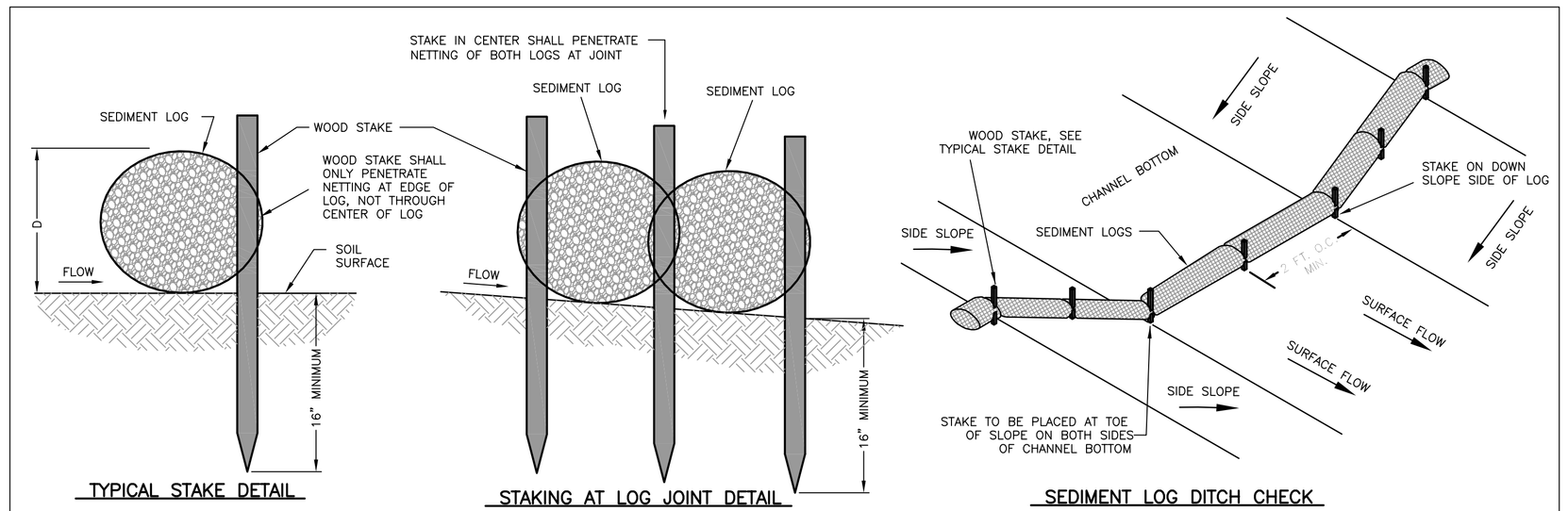
NTS



CURLEX® CLASS I, TYPE B E.C. MAT INSTALLATION DETAIL

2 / C403

AMERICAN EXCELSIOR COMPANY



SEDIMENT LOG CHANNEL DITCH CHECK

4 / C403

NTS

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		JJR		MSS

REVISION

EROSION CONTROL DETAILS
LIVING HOPE LUTHERAN
CITY OF MENASHA, CALUMET COUNTY, WISCONSIN

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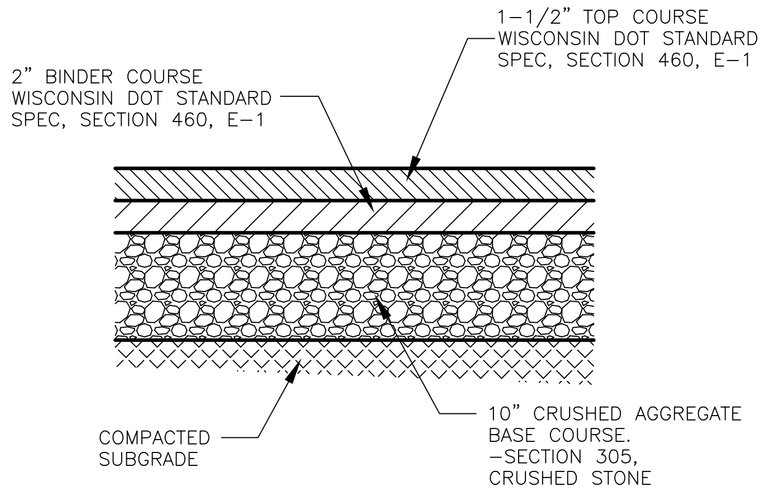
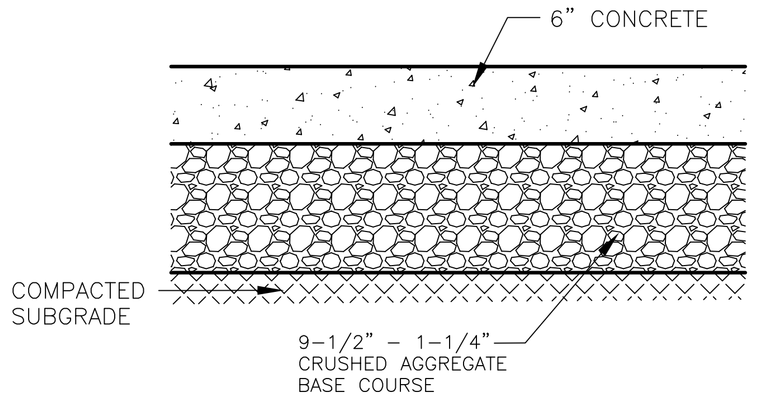
DRAWING NO.
C403

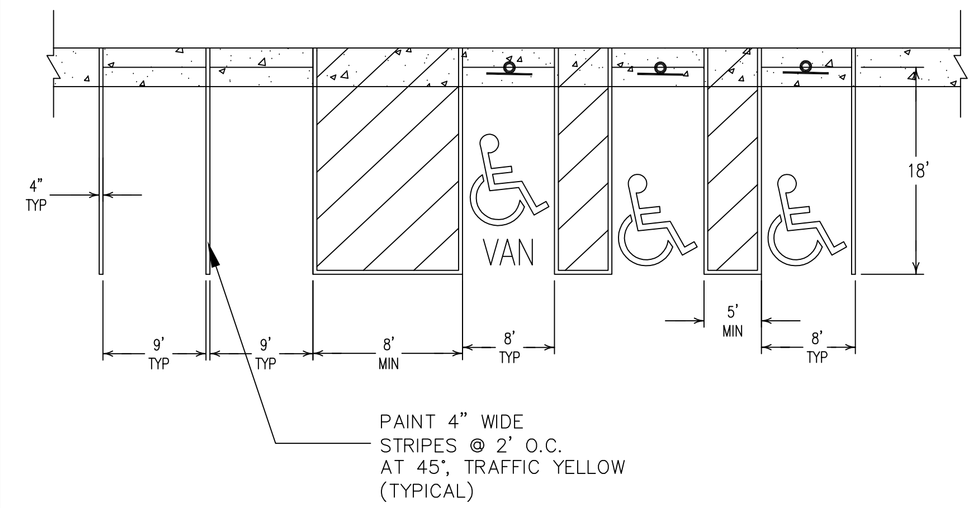
STANDARD DETAIL DRAWINGS: LIVING HOPE LUTHERAN



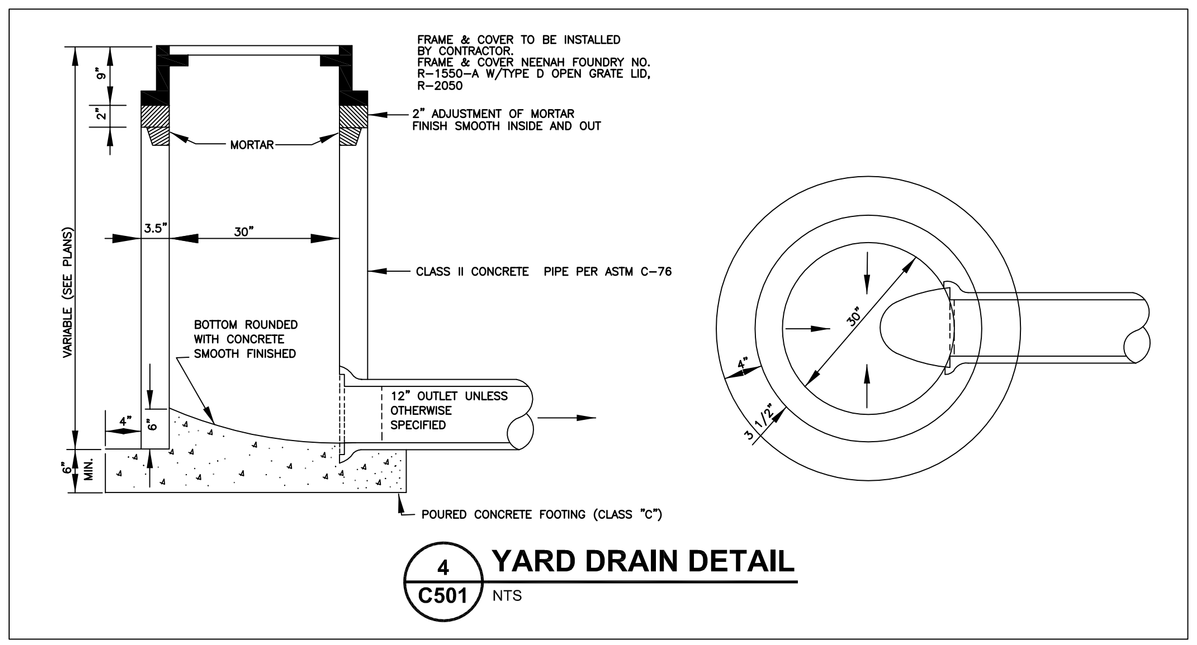
1 / C501 ASPHALT AREAS
NTS



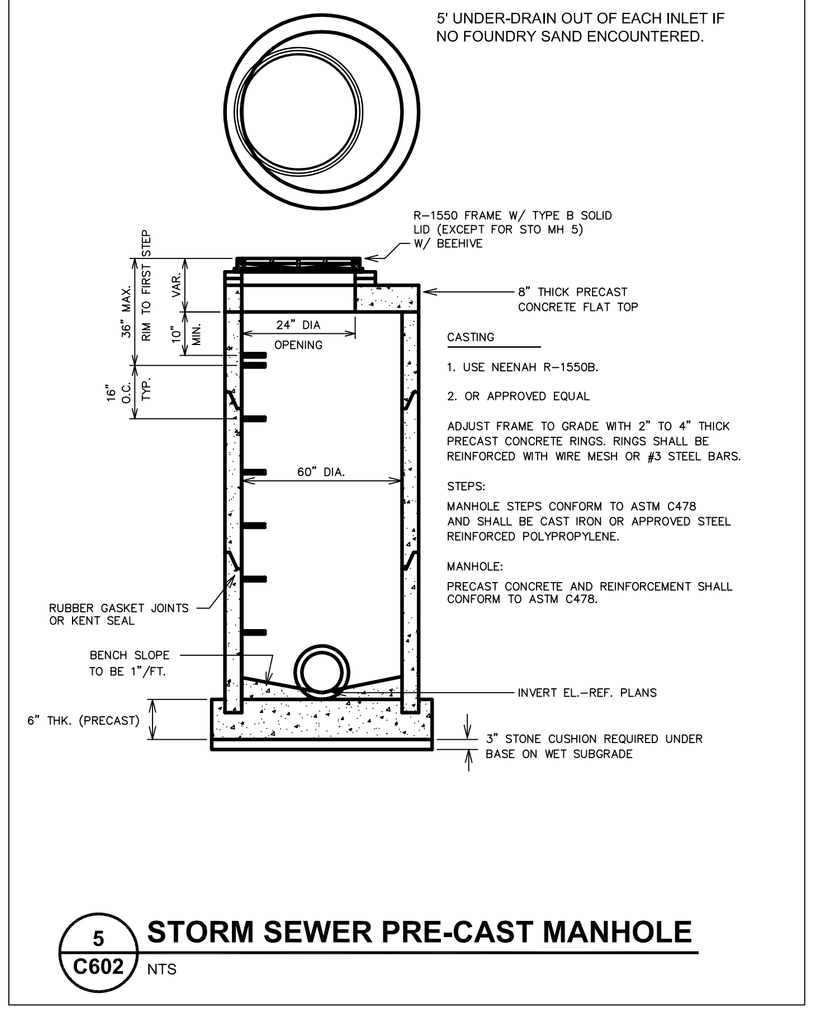
2 / C501 CONCRETE PAVEMENT AREAS
NTS



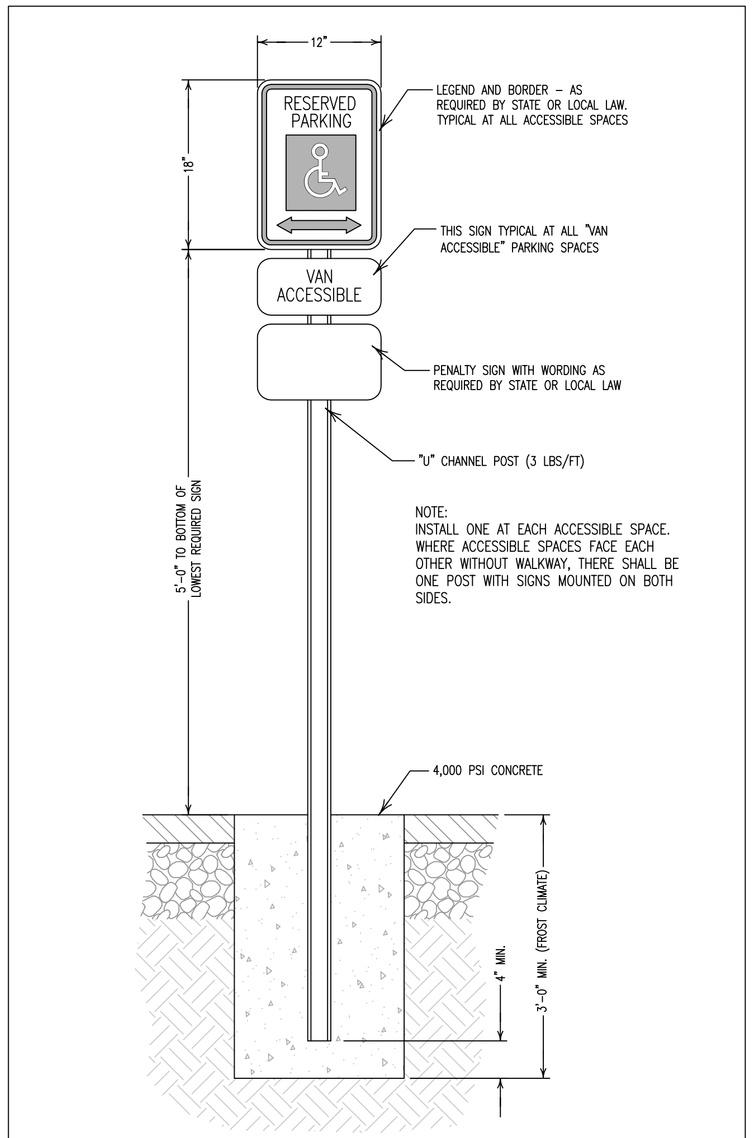
3 / C501 ADA STALL LAYOUT
NTS



4 / C501 YARD DRAIN DETAIL
NTS



5 / C602 STORM SEWER PRE-CAST MANHOLE
NTS



6 / C501 ACCESSIBLE SIGN DETAIL
NTS

Martenson & Eisele, Inc.
Planning
Environmental
Surveying
Engineering
Architecture
1377 Midway Road
Menasha, WI 54952
www.martenson-eisele.com
info@martenson-eisele.com
920.731.0381 1.800.236.0381

DRAWN BY	FIELDWORK	APPROVED
JJR		MSS

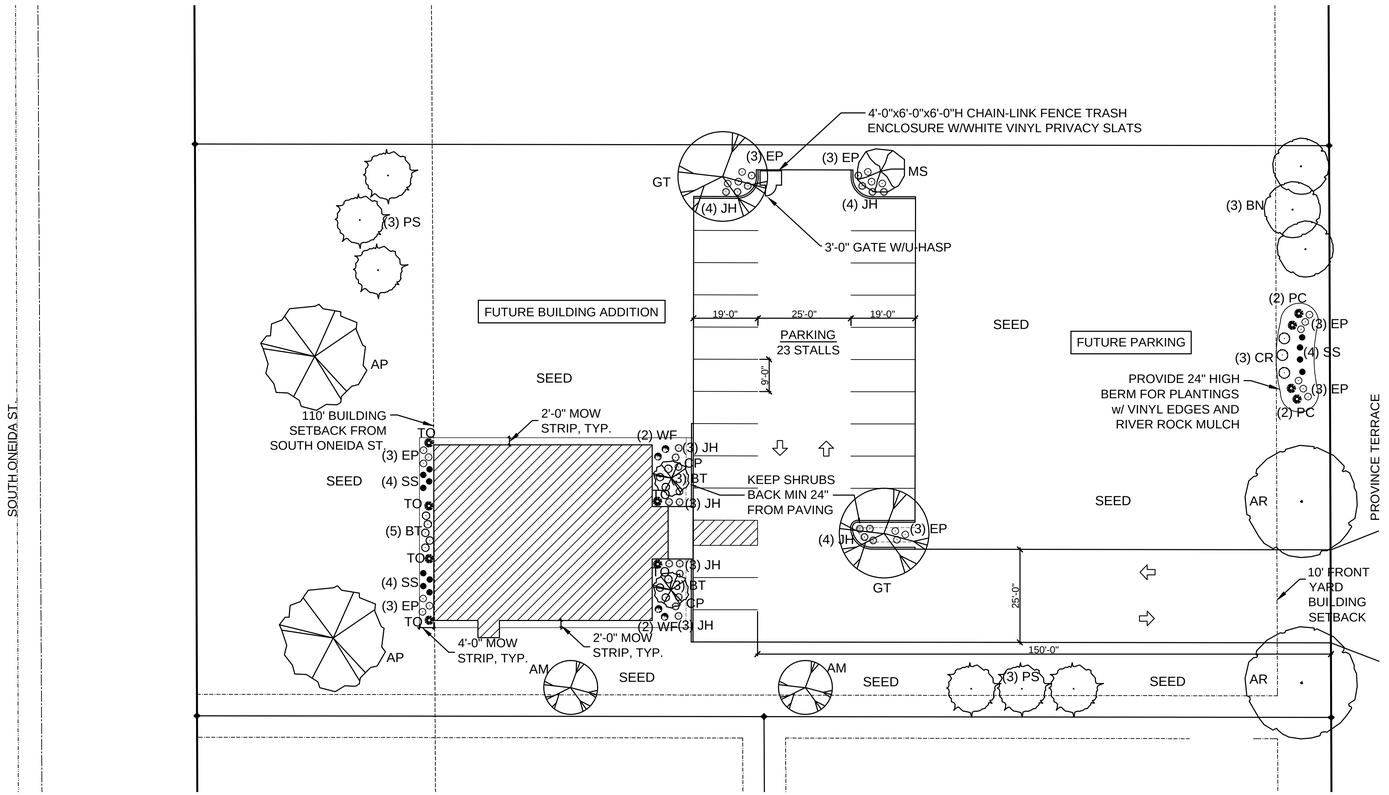
NO.	DATE	REVISION

STANDARD DETAIL DRAWINGS
LIVING HOPE LUTHERAN
CITY OF MENASHA, CALUMET COUNTY, WISCONSIN

SCALE	DATE
BAR SCALE	8/7/2015

COMPUTER FILE
1-0538-002de.dwg

DRAWING NO.
C501



1 L-1 LANDSCAPING PLAN

NORTH

SCALE: 1" = 20'-0"

	MARK	COMMON NAME botanical name	SIZE INITIAL	SIZE MATURE	QTY
SHADE	AP	EMERALD GREEN NORWAY MAPLE acer platanoides 'emerald green'	1–1/2"	50–60'	2
	AR	RED SUNSET MAPLE acer rubrum 'red sunset'	1–1/2"	50'	2
	BN	RIVER BIRCH betula nigra	1–1/2"	35'	3
	GT	SUNBURST HONEYLOCUST gleditsia tricanthos inermis	1–1/2"	35'	2
EVERGREEN	PS	WHITE PINE pinus strobus	60"	50'	6
ORNAMENTAL	AM	AMUR MAPLE acer ginnala	1–1/2"	18–20'	2
	CP	FALSECYPRESS BOULEVARD chamaecyparis pisifera 'boulevard'	1–1/2"	8–10'	2
	MS	SNOWDRIFT FLOWERING CRAB malus x 'snowdrift'	1–1/2"	18–20'	2
SHRUBS AND GRASSES	EP	PURPLE CONEFLOWER echinacea pururea	1 gal	2–3'	19
	JH	PRAIRIE ELEGANCE JUNIPER juniperus horizontalis 'praire elegance'	1 gal	6–12"	26
	PC	SWITCHGRASS panicum	2 gal	3–5'	4
	SS	LITTLE BLUESTEM schizachyrium scoparius	1 gal	3'	12
	TO	TECHNY ARBORVITAE thuja occidentalis 'techny'	2 gal	4–6'	6
	CR	GRAY DOGWOOD cornus racemosa	2 gal	7'	3
	WF	RED PRINCE WEIGELA weigela florida	2gal	6–8'	4
	BT	CRIMSON PYGMY BARBERRY berberis thunbergii 'atropurpurea nana'	1 gal	2–3'	11

LANDSCAPING NOTES:

ALL DISTURBED GROUND AREAS TO BE SEEDED AND MULCHED WITHIN SEVEN (7) DAYS AFTER COMPLETION OF WORK IN THOSE AREAS.

LANDSCAPING CONTRACTOR IS RESPONSIBLE FOR FINE GRADING OF SITE; GENERAL CONTRACTOR / EXCAVATOR IS RESPONSIBLE FOR ROUGH GRADING TO +/– 1" OF FINAL GRADE AND PROVIDING MINIMUM 4" OF TOPSOIL AT ALL AREAS DISTURBED. LANDSCAPING CONTRACTOR SHALL EXAMINE ROUGH GRADING PRIOR TO COMMENCEMENT OF WORK; IF UNSUITABLE, LANDSCAPING CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING. COMMENCEMENT OF WORK BY LANDSCAPING CONTRACTOR INDICATES ACCEPTANCE OF SUBSTRATE.

LANDSCAPING CONTRACTOR SHALL PROVIDE VINYL EDGING STAKED AT MINIMUM 32" O.C., LANDSCAPING FABRIC AND STONE OR SHREDDED HARDWOOD MULCH MATERIAL AT LOCATIONS INDICATED AND WITHIN PLANTING BEDS.

LANDSCAPING CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING DIGGERS HOTLINE OR OTHER LOCATOR SERVICE(S) FOR LOCATION OF UNDERGROUND UTILITIES PRIOR TO START OF WORK.

LANDSCAPING CONTRACTOR SHALL NOTIFY ARCHITECT MINIMUM 7 DAYS, IN WRITING, PRIOR TO START OF INSTALLATION OF SPECIFIED SPECIES IS NOT AVAILABLE AND SUBSTITUTION IS REQUIRED. ALL LANDSCAPING MATERIAL SHALL BE DELIVERED SAME DAY AS INSTALLATION.

LANDSCAPING CONTRACTOR SHALL BRACE DECIDUOUS SHADE AND ORNAMENTAL TREES AND WRAP TRUNK W/FABRIC UP MINIMUM 36" ABOVE FINISH GRADE.

CITY OF MENASHA ZONING SUMMARY :

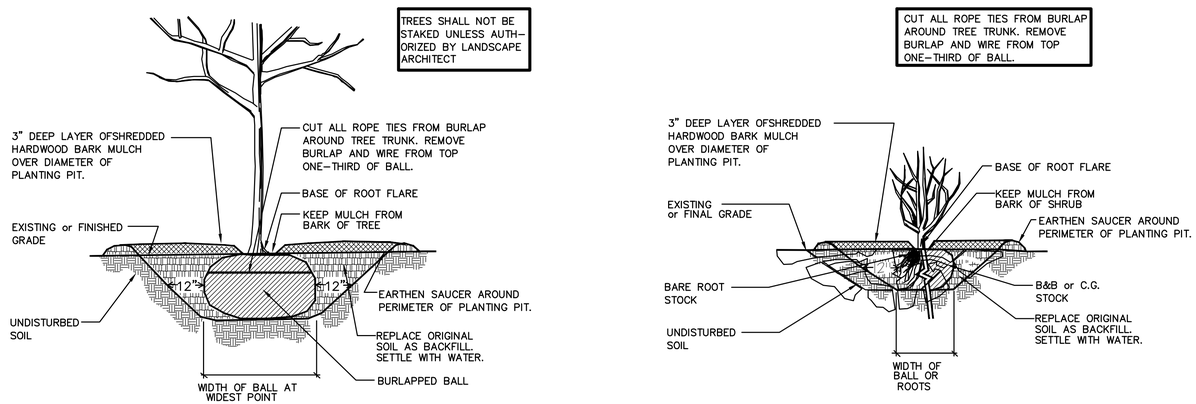
PARCEL ZONING:	C-1 (GENERAL COMMERCIAL) - CHURCH USE PERMITTED
PARCEL AREA:	1.16 ACRES (50,670 GSF)
MAX BUILDING COVERAGE:	30%
FRONT YARD SETBACK:	10 FEET
HWY SETBACK:	110 FEET FROM CENTERLINE
SIDE YARD SETBACK:	0 FEET
MAX BUILDING HEIGHT:	45 FEET
BUILDING AREA:	2880 GSF (5.6%) - < 30% COVERAGE
PARKING/DRIVEWAY/WORK AREA:	11,341SF (22.3%) - 7,254 SF PARKING AREA
MINIMUM LANDSCAPE SPACE:	15%
LANDSCAPE SPACE: (GRASS, SHRUBS GROUNDCOVER, TREES)	36,286 SF (71.6%)
PARKING REQUIREMENT:	1 STALL PER 4 AUDITORIUM SEATS = 90/4 = 23 STALLS
ACTUAL PARKING:	23 STALLS (1 BARRIER FREE)
STALL SIZE:	9' x 19'
MIN. ISLE WIDTH:	25 FEET

FACADE APPEARANCES:

PRIMARY MATERIAL:	MIN 75% BRICK/ NATURAL STONE
SECONDARY MATERIAL:	MAX 25% HIGH QUALITY AND DURABLE (EIFS)
EIFS:	NOT ALLOWED WITHIN 36" OF GRADE AND LESS THAN 25% OF FACADE
EXTERIOR LIGHTING:	0.5 FC < x < 5.0 FC AT PARKING LOT 0.5 FC < x < 2.0 FC AT AT OTHER LOCATIONS
MAX LIGHT SPILLAGE:	0.5 FC

LANDSCAPING:

PERIMETER:	320 LF/ 35 = 10 CANOPY TREES (MIN 25% EVERGREEN)
PARKING LOT ABUTTING STREET:	N/A - PROVIDED (5) ORNAMENTAL/EVERGREEN TREES ALONG DRIVEWAY
INTERIOR:	10% OF PARKING AREA (724.5 SF) - 744 SF PROVIDED
CANOPY TREES:	MIN 1-1/2" CALIPER AT PLANTING



2 L-1 INSTALLATION DETAILS

SCALE: NTS

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MILLENNIUM CONSTRUCTION INC.
"THE NEW ERA OF BUILDING"
425 W. WISCONSIN AVENUE
APPLETON, WISCONSIN 54911
PH: 920.882.8700
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www.millenniumconstructionwi.com

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PROPOSED CONSTRUCTION FOR

LIVING HOPE LUTHERAN

1164 PROVINCE TERRACE - MENASHA, WISCONSIN

REVISIONS

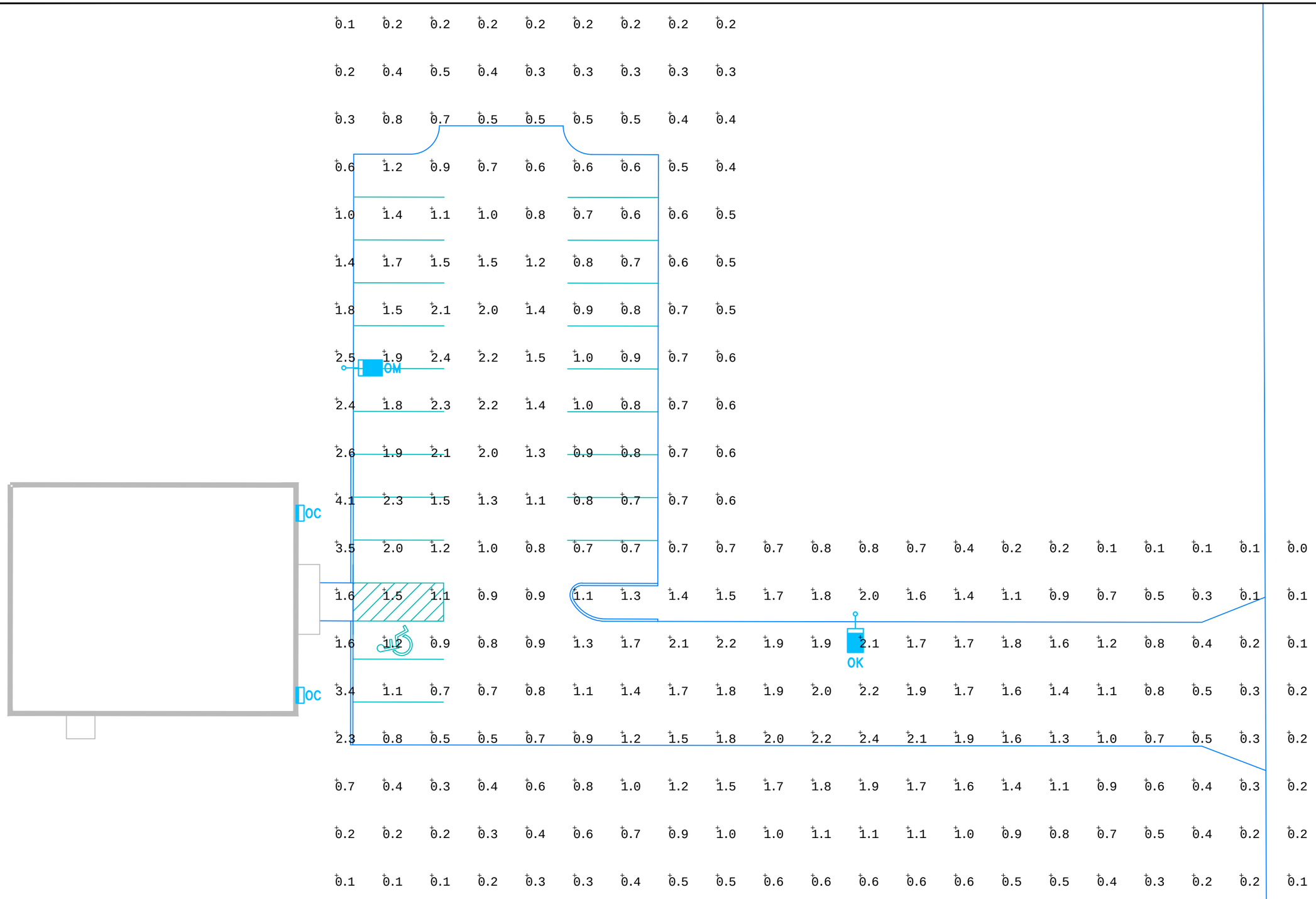
DATE	DESCRIPTION
-	-
-	-
-	-
-	-
-	-

DRAWN	CHECKED
NGP	JVB

PROJECT NO.
1-0538-002

DATE
13 AUG 2015

SHEET NO.
L-1



Luminaire Schedule

Symbol	Qty	Label	Arrangement	LLF	Description	Lum. Lumens
	1	OK	SINGLE	0.900	GLEON-AE-03-LED-E1-T3 on 25' SSS Pole	15669
	1	OM	SINGLE	0.900	GLEON-AE-03-LED-E1-T4FT on 25' SSS Pole	15760
	2	OC	SINGLE	0.900	EW1-A627-4K-UN mounted at 12' AFG	2951

WERNER ELECTRIC SUPPLY
2341 INDUSTRIAL DRIVE NEENAH, WI 54946
(920) 729-4500, (920) 729-4492 FAX WWW.WERNERELECTRIC.COM

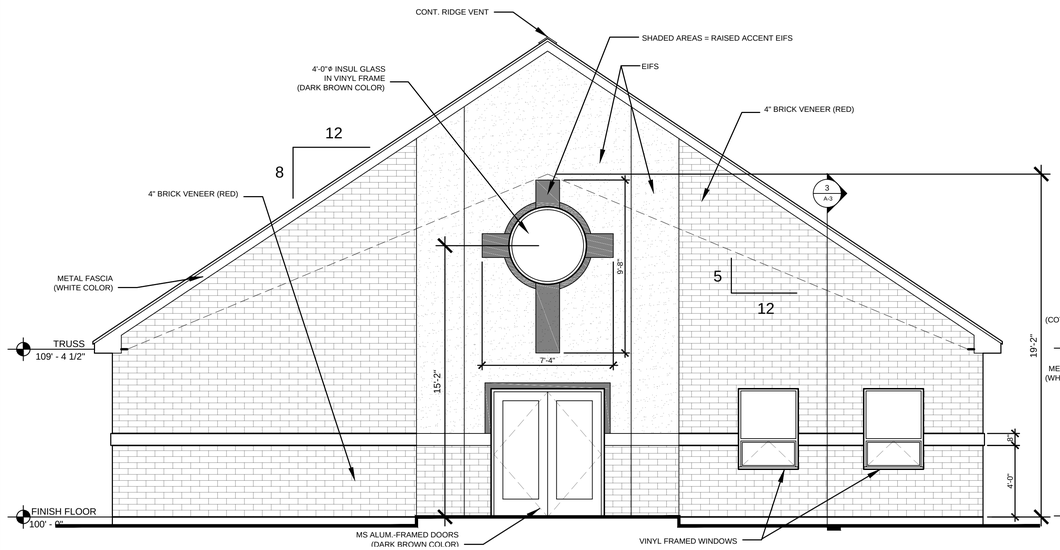
MILLENNIUM CONSTRUCTION INC.
IN PARTNERSHIP WITH:

LIVING HOPE LUTHERAN
NEW BUILDING
MENASHA, WI

RECORDS INFO
DRAWN BY: BJB
DATE: 8/12/15
SCALE: 1" = 20'-0"
JOB #: 081015

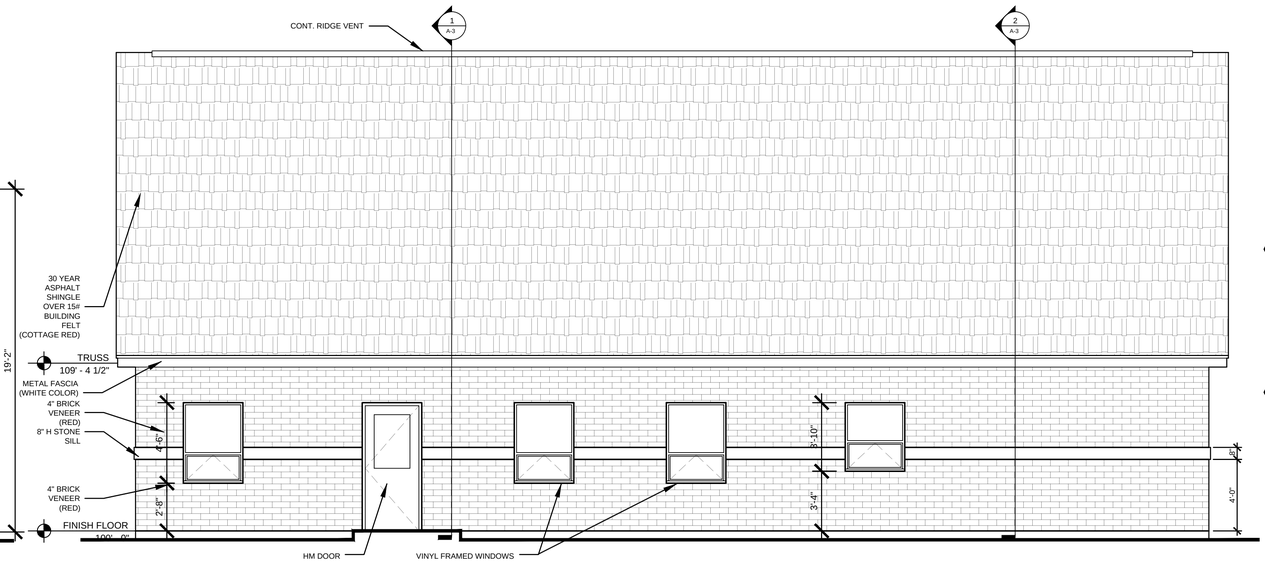
SHEET DESCRIPTION
SITE LIGHTING PHOTOMETRIC PLAN

SHEET NO.
ES01



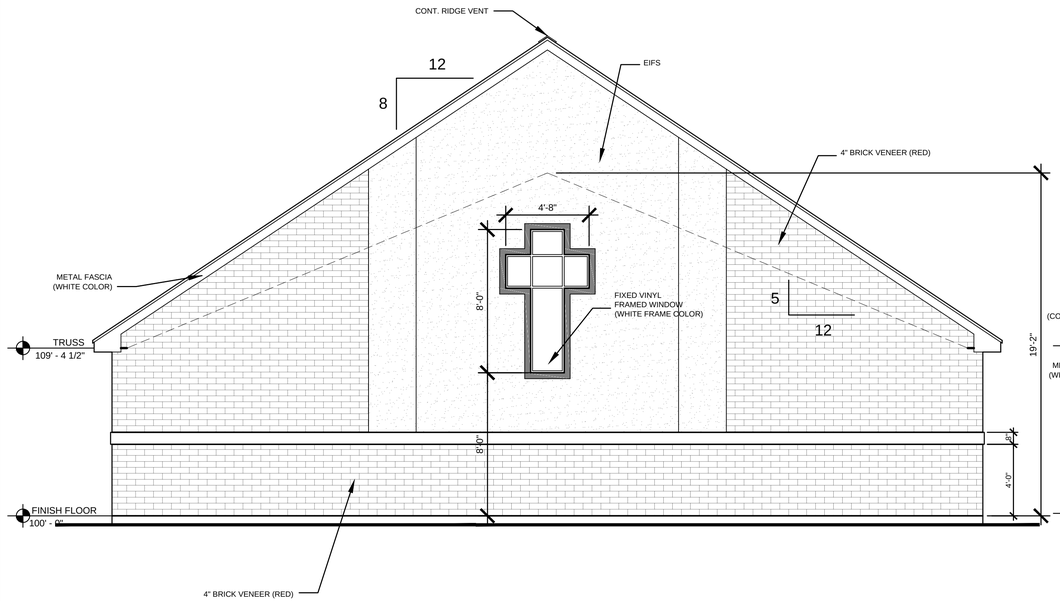
1 A-2 EAST ELEVATION

SCALE: 1/4" = 1'-0"



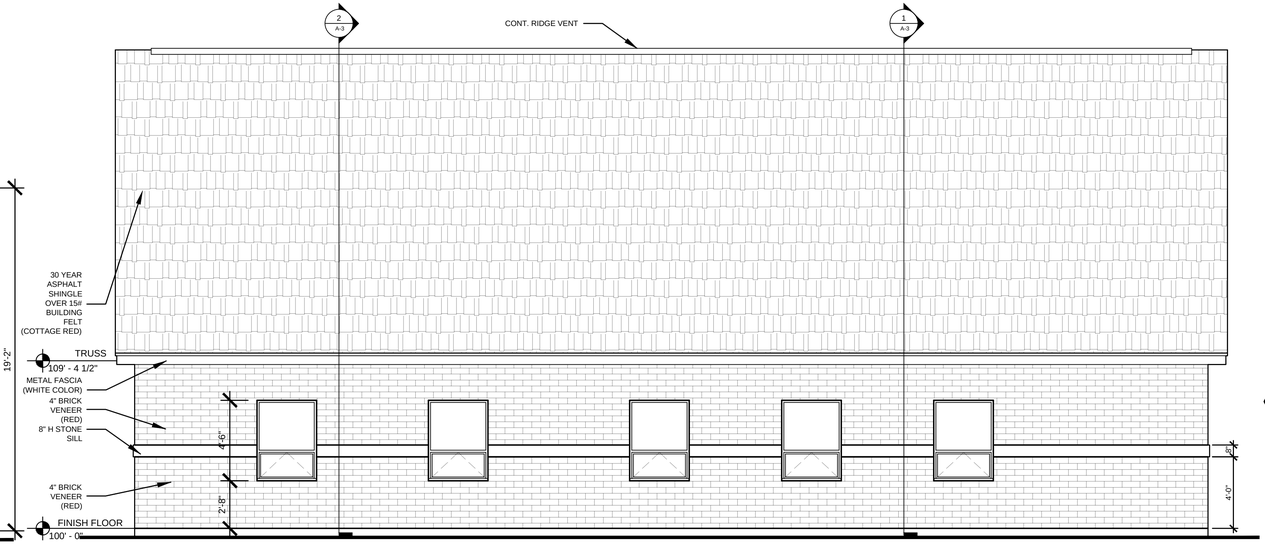
3 A-2 SOUTH ELEVATION

SCALE: 1/4" = 1'-0"



2 A-2 WEST ELEVATION

SCALE: 1/4" = 1'-0"



4 A-2 NORTH ELEVATION

SCALE: 1/4" = 1'-0"

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DESIGNERS ● TRADESMEN ● PROJECT MANAGERS
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PROPOSED CONSTRUCTION

LIVING HOPE LUTHERAN

1164 PROVINCE TERRACE- MENASHA, WISCONSIN

REVISIONS

DATE	DESCRIPTION
-	-
-	-
-	-
-	-
-	-

DRAWN	CHECKED
TGC	JVB

PROJECT NO.
1-0538-002

DATE
13 AUG 2015

SHEET NO.
A-2

AccuLite™

STENA™ LED SECURITY LIGHTS

WALL MOUNTED EW SERIES

LED 14W, 30W, 60W AND 80W

Project:

Fixture Type:

Location:

Contact/Phone:

Cat. No.:

Accessories:

PRODUCT DESCRIPTION

EW series luminaire are an energy efficient LED security light ideal for entryways, tunnels, loading docks and other applications where a reliable light source is required. The fixture delivers uniform light and extremely long life with a fraction of the energy used with conventional light sources.

PRODUCT SPECIFICATIONS

Optics The EW series comes standard with a specular reflector shaped to provide a uniform light distribution. • A clear glass lens protects the LED and reflector to keep them clean • Glass lenses last longer than plastic lenses as they do not yellow when exposed to UV from sunlight allowing the EW series to operate at peak performance even after years of the original installation • Full cut off, dark sky friendly.

Construction Die cast aluminum housing, bronze polyester powder coat finish, glass lens • Neoprene gaskets create a seal between the fixture and the wall • Stainless steel external hardware • Coated steel back plate to secure fixture to the wall • Back plate includes a bubble level to make installation easier.

Electrical The luminaire is equipped with one LED driver with universal 120-277V • Optional 347V input can be accommodated • Driver operating temperature range is -30°C (-22°F) through 50°C (122°F) • Total Harmonic Distortion (THD) 20% Max. Power factor > 0.90 at full load.

LED Light Source EW series luminaires are equipped with one or two LED arrays depending on the model number • All LEDs are 4000K CCT with a minimum CRI of 70.

Finish Bronze polyester powder coat finish

Mounting Direct to wall or to recessed junction box • Additional accessories available for trunion, slipfitter, and knuckle type installation as a flood light • Order mounting accessories separately.

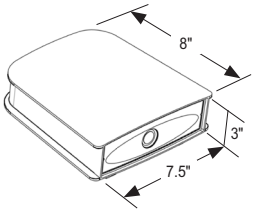
Certifications Meets UL1598/CSA C22.2 250 standards • Suitable for wet locations • Fixture carries a 5 year warranty when used according to manufacturer specifications • EW1 models are ADA Compliant when mounted to the wall with no additional accessories • DesignLights Consortium® qualified, visit the DLC website for a full list of qualified models.

Specifications subject to change without notice

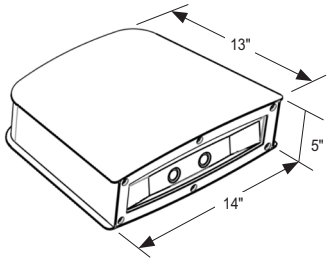
EW1

EW2

DIMENSIONS



EW1:
7 1/2" W x 8" H x 3" D
Weight: 3.5 LBS



EW2:
14" W x 13" H x 5" D
Weight: 11.5 LBS

PRODUCT CODES

Series	Light Engine Code	CCT	Voltage	Finish
EW1	A014	4K	UN	BZ
EW1	**A014** 14W LED	**4K** 4000K CCT, 70 CRI	**UN** 120-277V	**BZ** Bronze
	A027 30W LED			
	A052 60W LED			
EW2	**A078** 80W LED			

ACCESSORIES

Catalog #	Description
EW1SFBZ	EW1 Slipfitter
EW1TRNBZ	EW1 Trunion
EW1KNCLBZ	EW1 Knuckle
EW2SFBZ	EW2 Slipfitter
EW2TRNBZ	EW2 Trunion
EWSFCBXBZ	EW1 & EW2 Surface mount box

1300 S. Wolf Road • Des Plaines, IL 60018 Phone (847) 827-9880 • Fax (847) 827-2925
220 Chrysler Drive • Brampton, Ontario • Canada L6S 6B6 • Phone (905) 792-7335 • Fax (905) 792-0064
Visit us at www.junolightinggroup.com Specifications are subject to change with out notice.

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Juno Lighting Group by Schneider Electric

LED PERFORMANCE (4000K CCT, MIN CRI 70)

Catalog Number	Delivered Lumens	Input Volts	Input Watts	Efficacy	PF	THDI%
EW1A0144KUN	1,569	120	13	121	0.98	11
EW1A0274KUN	2,952	120	30	97	0.98	11
EW1A0524KUN	5,299	120	57	94	0.99	11
EW2A0784KUN	8,260	120	78	106	0.99	11

PHOTOMETRY

	EW1A0144KUN Total Lumens: 1,569		**EW1A0274KUN** Total Lumens: 2,952		**EW1A0524KUN** Total Lumens: 5,299		**EW2A0784KUN** Total Lumens: 8,260	
Zone	**Luminaire Lumens**	**% of Luminaire Lumens**	**Luminaire Lumens**	**% of Luminaire Lumens**	**Luminaire Lumens**	**% of Luminaire Lumens**	**Luminaire Lumens**	**% of Luminaire Lumens**
Forward Light	**848**	**54%**	**1,622**	**55%**	**2,831**	**53%**	**5,163**	**63%**
FL (0˚-30˚)	232	15%	438	15%	811	15%	1,295	16%
FM (30˚-60˚)	487	31%	925	31%	1,625	31%	2,830	34%
FH (60˚-80˚)	129	8%	258	9%	392	7%	1,023	12%
FVH (80˚-90˚)	0	0%	1	0%	3	0%	16	0%
Back Light	**721**	**46%**	**1,330**	**45%**	**2,465**	**47%**	**3,092**	**37%**
BL (0˚-30˚)	223	14%	417	14%	783	15%	1,177	14%
BM (30˚-60˚)	416	26%	771	26%	1,409	27%	1,736	21%
BH (60˚-80˚)	81	5%	141	5%	270	5%	179	2%
BVH (80˚-90˚)	1	0%	1	0%	3	0%	1	0%
UL Light	**0**	**0%**	**0**	**0%**	**0**	**0%**	**0**	**0%**
UL (90˚-100˚)	0	0%	0	0%	0	0%	0	0%
UH (100˚-180˚)	0	0%	0	0%	0	0%	0	0%
Trapped Light	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
BUG Rating	B1-U0-G0		B1-U0-G1		B2-U0-G1		B3-U1-G1	

JUNO LIGHTING GROUP by Schneider Electric

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McGraw-Edison

DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction
Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics
Choice of 16 patented, high-efficiency AccuLED Optics. The optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 6000K CCT and 3000K CCT. For the ultimate level of spill light control, an optional house side shield accessory can be field or factory installed. The house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

Electrical
LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

Mounting
Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during assembly. Designed for pole or wall mounting. When mounting two or more luminaires at 90° or 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table on page 3. Round pole top adapter included. For wall mounting, specify wall mount bracket option. 3G vibration rated.

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

Warranty
Five-year warranty.

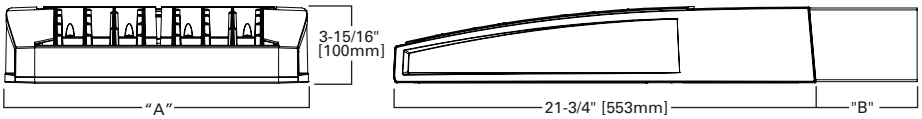
GLEON
GALLEON LED

1-10 Light Squares
Solid State LED

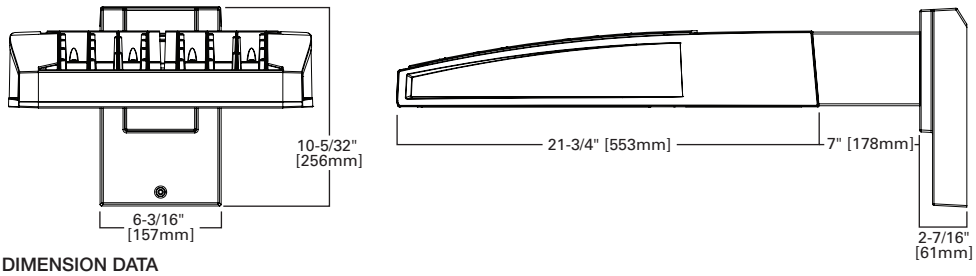
AREA/SITE LUMINAIRE

DIMENSIONS

POLE MOUNT



WALL MOUNT



DIMENSION DATA

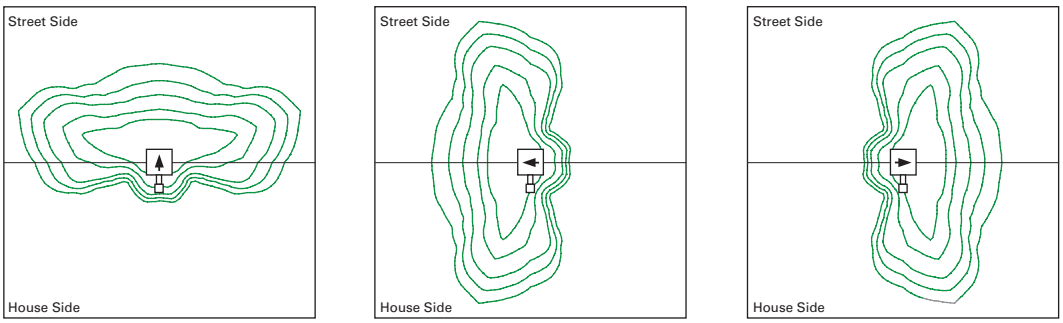
Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length [1]	Weight with Arm (lbs.)	EPA with Arm [2] (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: 1 Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. **2** EPA calculated with optional arm length.

CERTIFICATION DATA
UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
IP66 Rated
DesignLights Consortium® Qualified*

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

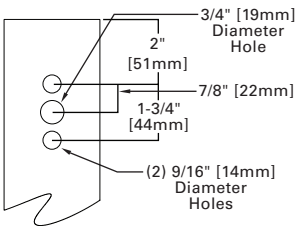
OPTIC ORIENTATION



Standard | **Optics Rotated Left @ 90°** [L90] | **Optics Rotated Right @ 90°** [R90]

DRILLING PATTERN

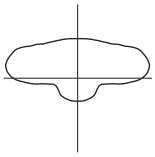
TYPE "N"



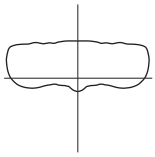
OPTICAL DISTRIBUTIONS

Asymmetric Area Distributions

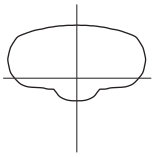
T2 (Type II)



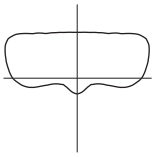
SL2 (Type II with Spill Control)



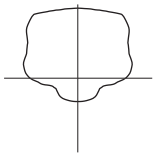
T3 (Type III)



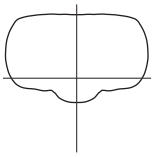
SL3 (Type III with Spill Control)



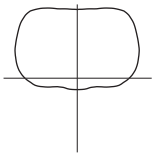
T4FT (Type IV Forward Throw)



T4W (Type IV Wide)

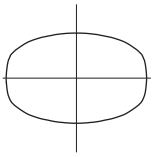


SL4 (Type IV with Spill Control)

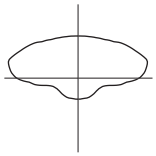


Asymmetric Roadway Distributions

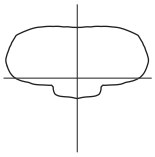
RW (Rectangular Wide Type I)



T2R (Type II Roadway)

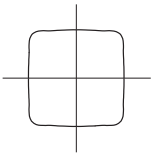


T3R (Type III Roadway)

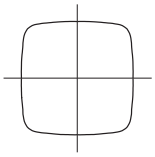


Symmertric Distributions

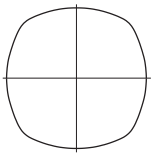
5NQ (Type V Square Narrow)



5MQ (Type V Square Medium)

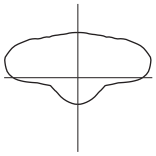


5WQ (Type V Square Wide)

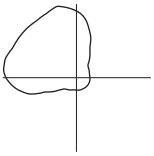


Specialized Distributions

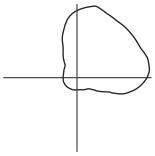
AFL (Automotive Frontline)



SLL (90° Spill Light Eliminator Left)



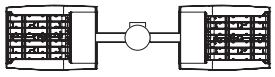
SLR (90° Spill Light Eliminator Right)



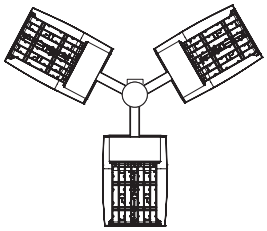
ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AE-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AE-10	16" Extended Arm (Required)	16" Extended Arm (Required)

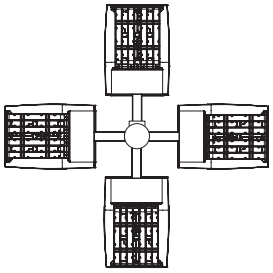
2 @ 180°



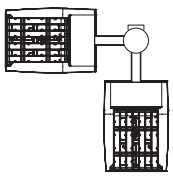
Triple[1]



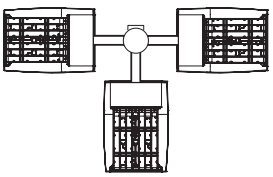
4 @ 90°



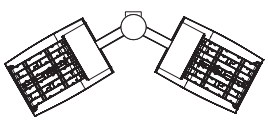
2 @ 90°



Triple[2]



2 @ 120°



NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. **2** Round poles are 3 @ 90°.

Powering Business Worldwide

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

Specifications and dimensions subject to change without notice.

NOMINAL POWER AND LUMENS (1A)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Drive Current		1A	1A	1A	1A	1A	1A	1A	1A	1A	1A
Nominal Power (Watts)		56	107	157	213	264	315	370	421	475	528
Input Current @ 120V (A)		0.47	0.90	1.31	1.79	2.21	2.64	3.09	3.51	3.96	4.41
Input Current @ 208V (A)		0.28	0.51	0.74	1.02	1.25	1.48	1.76	1.99	2.22	2.50
Input Current @ 240V (A)		0.25	0.45	0.65	0.90	1.10	1.30	1.55	1.75	1.95	2.20
Input Current @ 277V (A)		0.23	0.41	0.59	0.82	1.00	1.18	1.41	1.59	1.77	2.00
Optics											
T2	Lumens	5,272	10,303	15,373	20,313	25,168	30,118	35,618	40,357	45,018	49,842
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T2R	Lumens	5,597	10,938	16,321	21,565	26,719	31,974	37,813	42,844	47,792	52,914
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5
T3	Lumens	5,374	10,501	15,669	20,704	25,652	30,697	36,303	41,134	45,884	50,802
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3R	Lumens	5,493	10,735	16,017	21,164	26,222	31,379	37,110	42,048	46,904	51,930
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	Lumens	5,405	10,562	15,760	20,824	25,801	30,875	36,514	41,372	46,150	51,096
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	5,335	10,426	15,556	20,555	25,468	30,476	36,042	40,838	45,554	50,436
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	Lumens	5,263	10,285	15,347	20,278	25,124	30,066	35,556	40,288	44,940	49,756
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL3	Lumens	5,373	10,500	15,667	20,701	25,649	30,693	36,298	41,128	45,878	50,794
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	Lumens	5,105	9,976	14,886	19,669	24,370	29,163	34,488	39,078	43,591	48,262
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	Lumens	5,542	10,830	16,160	21,352	26,455	31,658	37,439	42,421	47,320	52,392
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
5MQ	Lumens	5,644	11,029	16,457	21,745	26,942	32,241	38,128	43,202	48,191	53,356
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
5WQ	Lumens	5,659	11,059	16,501	21,803	27,014	32,327	38,230	43,317	48,320	53,498
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	Lumens	4,722	9,227	13,767	18,191	22,539	26,971	31,897	36,141	40,315	44,635
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	Lumens	5,492	10,732	16,014	21,159	26,216	31,372	37,101	42,038	46,893	51,918
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
AFL	Lumens	5,512	10,771	16,072	21,236	26,311	31,486	37,236	42,191	47,063	52,107
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4

* Nominal data for 4000K CCT.

LUMEN MULTIPLIER

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

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.

NOMINAL POWER AND LUMENS (700MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Drive Current		700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA
Nominal Power (Watts)		38	72	105	138	176	210	243	276	314	348
Input Current @ 120V (A)		0.32	0.59	0.86	1.14	1.45	1.72	2	2.28	2.58	2.86
Input Current @ 208V (A)		0.21	0.36	0.51	0.67	0.87	1.02	1.18	1.34	1.53	1.69
Input Current @ 240V (A)		0.19	0.32	0.45	0.59	0.77	0.90	1.04	1.18	1.35	1.49
Input Current @ 277V (A)		0.20	0.29	0.40	0.51	0.69	0.80	0.91	1.02	1.20	1.31
Optics											
T2	Lumens	3,854	7,531	11,237	14,847	18,395	22,013	26,033	29,497	32,904	36,430
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T2R	Lumens	4,091	7,995	11,929	15,762	19,529	23,370	27,638	31,316	34,932	38,676
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3	Lumens	3,928	7,676	11,453	15,133	18,750	22,437	26,534	30,065	33,537	37,132
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3R	Lumens	4,015	7,846	11,707	15,469	19,166	22,936	27,124	30,733	34,283	37,957
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T4FT	Lumens	3,951	7,720	11,519	15,221	18,858	22,567	26,688	30,240	33,732	37,347
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	3,900	7,620	11,370	15,024	18,615	22,276	26,343	29,849	33,296	36,864
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL2	Lumens	3,847	7,518	11,217	14,821	18,364	21,975	25,988	29,447	32,847	36,368
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL3	Lumens	3,927	7,675	11,451	15,131	18,747	22,434	26,531	30,061	33,533	37,126
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
SL4	Lumens	3,731	7,292	10,880	14,376	17,812	21,315	25,208	28,562	31,861	35,275
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5
5NQ	Lumens	4,051	7,916	11,811	15,606	19,336	23,139	27,365	31,006	34,587	38,294
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
5MQ	Lumens	4,125	8,062	12,029	15,894	19,692	23,565	27,869	31,577	35,224	38,999
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
5WQ	Lumens	4,136	8,083	12,061	15,936	19,745	23,628	27,943	31,661	35,318	39,103
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	3,451	6,744	10,063	13,296	16,474	19,714	23,314	26,416	29,467	32,625
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
RW	Lumens	4,014	7,844	11,704	15,465	19,162	22,930	27,118	30,726	34,274	37,948
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
AFL	Lumens	4,029	7,873	11,747	15,522	19,231	23,014	27,216	30,838	34,399	38,086
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

* Nominal data for 4000K CCT.

LUMEN MULTIPLIER

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

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.

NOMINAL POWER AND LUMENS (530MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Drive Current		530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA
Nominal Power (Watts)		30	54	80	105	130	159	184	209	234	259
Input Current @ 120V (A)		0.25	0.45	0.66	0.86	1.07	1.32	1.52	1.72	1.93	2.14
Input Current @ 208V (A)		0.17	0.28	0.39	0.51	0.63	0.78	0.9	1.02	1.14	1.26
Input Current @ 240V (A)		0.17	0.25	0.35	0.45	0.55	0.70	0.80	0.90	1.00	1.10
Input Current @ 277V (A)		0.19	0.24	0.32	0.40	0.49	0.64	0.72	0.80	0.89	0.98
Optics											
T2	Lumens	3,079	6,017	8,978	11,862	14,697	17,588	20,800	23,567	26,289	29,106
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4
T2R	Lumens	3,269	6,388	9,531	12,593	15,603	18,672	22,082	25,020	27,909	30,900
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4
T3	Lumens	3,138	6,133	9,150	12,091	14,980	17,926	21,200	24,021	26,795	29,667
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3R	Lumens	3,208	6,269	9,354	12,359	15,313	18,325	21,671	24,555	27,390	30,326
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T4FT	Lumens	3,156	6,168	9,203	12,161	15,067	18,030	21,323	24,160	26,950	29,839
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T4W	Lumens	3,116	6,088	9,084	12,004	14,872	17,797	21,047	23,848	26,602	29,453
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL2	Lumens	3,074	6,006	8,962	11,842	14,672	17,558	20,764	23,527	26,244	29,056
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL3	Lumens	3,138	6,132	9,149	12,089	14,978	17,924	21,197	24,018	26,791	29,662
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL4	Lumens	2,981	5,826	8,693	11,486	14,231	17,030	20,140	22,820	25,456	28,184
	BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5
5NQ	Lumens	3,236	6,324	9,437	12,469	15,449	18,487	21,863	24,773	27,634	30,595
	BUG Rating	B1-U0-G0	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2
5MQ	Lumens	3,296	6,441	9,610	12,698	15,733	18,828	22,266	25,229	28,142	31,158
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
5WQ	Lumens	3,305	6,458	9,636	12,732	15,775	18,878	22,325	25,296	28,217	31,241
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	2,757	5,388	8,040	10,623	13,162	15,751	18,627	21,105	23,543	26,066
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4
RW	Lumens	3,207	6,267	9,351	12,356	15,309	18,320	21,666	24,549	27,384	30,319
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3
AFL	Lumens	3,219	6,290	9,385	12,401	15,365	18,387	21,745	24,638	27,484	30,429
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3

* Nominal data for 4000K CCT.

LUMEN MULTIPLIER

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

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.

ORDERING INFORMATION

Sample Number: GLEON-AE-04-LED-E1-T3-GM-700

Product Family [1]	Light Engine	Number of Light Squares [2]	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON=Galleon	**AE**=1A Drive Current	**01**=1 **02**=2 **03**=3 **04**=4 **05**=5 **06**=6 **07**=7 **08**=8 **09**=9 **10**=10	**LED**=Solid State Light Emitting Diodes	**E1**=120-277V **347**=347V [3] **480**=480V [3, 4]	**T2**=Type II **T2R**=Type II Roadway **T3**=Type III **T3R**=Type III Roadway **T4FT**=Type IV Forward Throw **T4W**=Type IV Wide **5NQ**=Type V Narrow **5MQ**=Type V Square Medium **5WQ**=Type V Square Wide **SL2**=Type II w/Spill Control **SL3**=Type III w/Spill Control **SL4**=Type IV w/Spill Control **SLL**=90° Spill Light Eliminator Left **SLR**=90° Spill Light Eliminator Right **RW**=Rectangular Wide Type I **AFL**=Automotive Frontline	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White	**[Blank]**=Arm for Round or Square Pole **EA**=Extended Arm [5] **MA**=Mast Arm Adapter [6] **WM**=Wall Mount

Options (Add as Suffix)

2L=Two Circuits [7, 8]
7030=70 CRI 3000K [9]
8030=80 CRI 3000K [10]
7050=70 CRI 5000K [10]
7060=70 CRI 6000K [9]
530=Drive Current Factory Set to 530mA [11]
700=Drive Current Factory Set to 700mA [11]
F=Single Fuse (120, 277 or 347V. Must Specify Voltage)
FF=Double Fuse (208, 240 or 480V. Must Specify Voltage)
P=Button Type Photocontrol (120, 208, 240 or 277V)
PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle
R=NEMA Twistlock Photocontrol Receptacle
HA=50°C High Ambient [8, 12]
MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height [13, 14, 15, 16, 17]
MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height [13, 14, 15, 16, 17]
MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height [13, 14, 15, 16, 19]
MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range) [13, 14, 15, 16, 20]
MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height [13, 14, 15, 16, 17, 21]
MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height [13, 14, 15, 16, 18, 21]
MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height [13, 14, 15, 16, 19, 21]
MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range) [13, 14, 15, 16, 20, 21]
MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height [13, 14, 15, 16, 17]
MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height [13, 14, 15, 16, 18]
MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height [13, 14, 15, 16, 19]
MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range) [13, 14, 15, 16, 20]
DIMRF-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height [22]
DIMRF-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height [22]
L90=Optics Rotated 90° Left
R90=Optics Rotated 90° Right
MT=Factory Installed Mesh Top
TH=Tool-less Door Hardware
LCF=Light Square Trim Plate Painted to Match Housing [23]
HSS=Factory Installed House Side Shield [24]
CE=CE Marking [25]

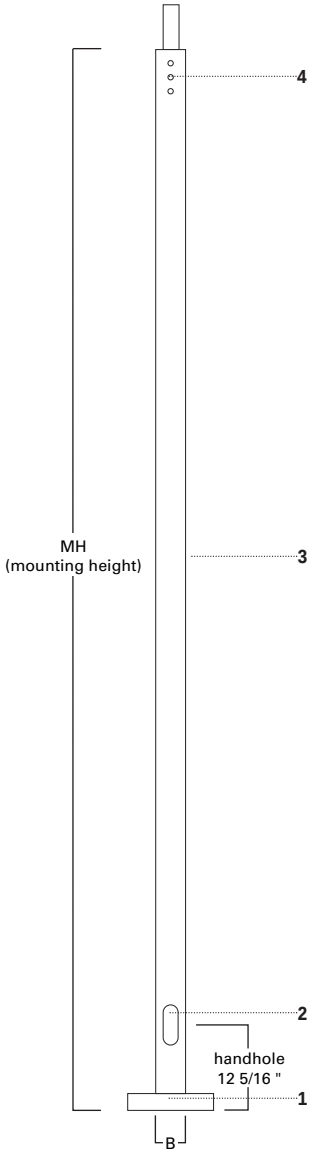
Accessories (Order Separately)

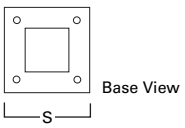
OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V
OA/RA1027=NEMA Photocontrol - 480V
OA/RA1201=NEMA Photocontrol - 347V
OA/RA1013=Photocontrol Shorting Cap
OA/RA1014=120V Photocontrol
MA1252=10kV Surge Module Replacement
MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon
MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon
MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon
MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon
MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon
MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon
MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon
MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon
MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon
MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon
FSIR-100=Wireless Configuration Tool for Occupancy Sensor [26]
GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares
GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares
GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares
GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares
LS/HSS=Field Installed House Side Shield [24, 27]

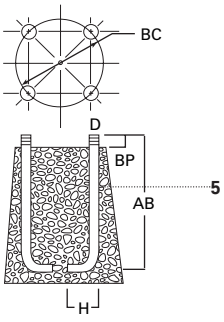
NOTES:
1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
2. Standard 4000K CCT and minimum 70 CRI.
3. Requires the use of a step down transformer when combined with MS/DIM, MS/X or DIMRF.
4. Only for use with 480V Wye systems. 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).
5. May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
6. Factory installed.
7. 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AE-02 through AE-04 requires a larger housing, normally used for AE-05 or AE-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
8. Not available with LumaWatt wireless sensors.
9. Extended lead times apply. Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
10. Extended lead times apply. For 8030, factor 7030 IES files x .92 (8% lumen loss). For 7050, use 7060 IES files.
11. 1 Amp standard. Use dedicated IES files for 530mA and 700mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
12. 50°C lumen maintenance data applies to 530mA and 700mA drive currents.
13. Consult factory for more information.
14. Utilizes internal step down transformer when 347V or 480V is selected.
15. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
16. Not available with HA option.
17. Approximately 22' detection diameter at 8' mounting height.
18. Approximately 40' detection diameter at 20' mounting height.
19. Approximately 60' detection diameter at 40' mounting height.
20. Approximately 100' detection diameter at 40' mounting height.
21. Replace X with number of Light Squares operating in low output mode.
22. LumaWatt wireless sensors are factory installed only requiring network components RF-EM-1, RF-GW-1 and RF-ROUT-1 in appropriate quantities. See www.eaton.com/lighting for LumaWatt application information.
23. Not available with house side shield (HSS).
24. Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
25. CE is not available with the DIMRF, MS, MS/X, MS/DIM, F, FF, P, R or PER7 options.
26. This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information
27. One required for each Light Square.

SSS SQUARE STRAIGHT STEEL

10'—39' MOUNTING HEIGHT







SPECIFICATION FEATURES

1 ··· ASTM Grade steel base plate with ASTM A366 base cover.

2 ··· Hand hole assembly 3" x 5" on 5" and 6" pole; and 2" x 4" on 4" pole.

3 ··· ASTM A500 grade "B" steel shaft. Shot blasted and painted with polyester powder coat.

4 ··· Drilled or Tenon (specify).

5 ··· Anchor bolt per ASTM A576 with (2) nuts, (2) flat washer, and (1) lock washer. Nuts, washers and threaded portion of bolt are hot dip galvanized. 3" hook for 3/4" bolt. 4" hook for 1" bolt.

FOUR BOLT ANCHORAGE [See ordering information]

BC=Bolt Circle
BP=Bolt Projection
AB=Bolt Dimensions
D=Bolt Diameter
H=Bolt Dimensions

FINISH COLORS [See ordering information]

F=Dark Bronze
G=Galvanized
V=Grey
W=White
Y=Black

WARNING: THE USE OF UNAUTHORIZED ACCESSORIES SUCH AS BANNERS, SIGNS OR PENNANTS FOR WHICH THE POLE WAS NOT DESIGNED FOR VOIDS THE COOPER LIGHTING WARRANTY AND MAY RESULT IN POLE FAILURE CAUSING SERIOUS INJURY OR PROPERTY DAMAGE. COOPER LIGHTING'S POLE WARRANTY IS ALSO VOIDED IF LUMINAIRE IS NOT INSTALLED AT TIME OF POLE INSTALLATION.

ORDERING INFORMATION

SAMPLE NUMBER: SSS5A20SFM1XG

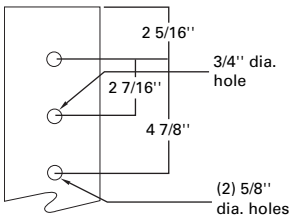
Square	Straight	Steel	Shaft [3] Size	Wall Thickness	Mounting Height (ft.)	Base Type	Finish	Fixture Mounting & Type	No. & Location of Arms	Arm Lengths	Accessories (Ground Lug)
S	**S**	**S**	**5**	**A**	**20**	**S**	**F**	**M**	**1**	**X**	**G**

Mtg. Height	Catalog [1, 2] Number	Wall Thickness	Base Square (In.)	Bolt Circle Dia. (In.)	Bolt Proj. (In.)	Shaft Size (In.)	Anchor Bolt Dia. &. Length (In.)	Net. Wt. (Lbs.)	EPA (Sq. Ft.) [4] At Pole Top				EPA (Sq. Ft.) [4] 2' Above Pole Top				Load—Include Bracket (Lbs.) Max. Fixture
MH			**S**	**BC**	**BP**	**B**	**AB**		**70**	**80**	**90**	**100**	**70**	**80**	**90**	**100**	
10	SSS4A10SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	96	39.8	29.9	23.2	18.4	33.0	24.8	19.3	15.3	150
15	SSS4A15SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	133	19.6	14.4	10.8	8.2	17.2	12.7	9.5	7.3	150
20	SSS4A20SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	152	12.9	9.1	6.5	4.6	11.7	8.2	5.9	4.2	200
25	SSS4A25SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	208	8.7	5.6	3.6	2.1	8.0	5.2	3.3	2.0	200
20	SSS5A20SF	.120	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	202	21.9	15.7	11.6	8.5	19.9	14.3	10.5	7.7	200
25	SSS5A25SF	.120	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	248	15.5	10.5	7.2	4.8	14.3	9.8	6.6	4.4	200
30	SSS5A30SF	.120	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	293	8.2	4.6	2.1	--	7.7	4.3	2.0	--	300
35	SSS5M35SF	.188	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	480	11.8	7.1	3.8	1.5	11.1	6.6	3.6	1.4	300
25	SSS6A25SF	.120	12 1/2	12.5	5	6	1 x 36 x 4	295	24.1	16.8	12.0	8.5	22.2	15.6	11.1	7.8	200
30	SSS6A30SF	.120	12 1/2	12.5	5	6	1 x 36 x 4	347	14.0	8.7	5.0	2.5	13.1	8.2	4.7	2.3	300
30	SSS6M30SF	.188	12 1/2	12.5	5	6	1 x 36 x 4	505	26.4	18.1	12.5	8.4	24.7	16.9	11.6	7.9	300
35	SSS6M35SF	.188	12 1/2	12.5	5	6	1 x 36 x 4	584	19.7	12.7	7.9	4.4	18.6	12.0	7.5	4.2	300
35	SSS6X35SF	.250	12 1/2	12.5	5	6	1 x 36 x 4	696	28.9	19.7	13.4	8.9	8.7	18.6	12.7	8.4	300
39	SSS6M39SF	.188	12 1/2	12.5	5	6	1 x 36 x 4	647	15.4	9.1	4.8	1.8	14.6	8.7	4.6	1.7	300
39	SSS6X39SF	.250	12 1/2	12.5	5	6	1 x 36 x 4	822	23.5	15.4	9.8	5.7	22.4	14.6	9.3	5.4	300

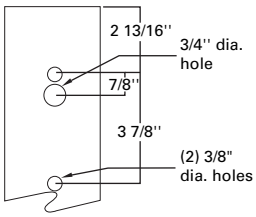
NOTES: 1 Catalog number includes pole with anchor bolts with double nuts (BEFORE INSTALLING ANCHOR BOLTS MAKE SURE PROPER ANCHOR BOLT TEMPLATE IS OBTAINED FROM COOPER LIGHTING).
2 Tenon size or machining for rectangular arms must be specified. Hand hole is located 180° from single arm.
3 Shaft size, base plate, anchor bolts and projections may vary slightly—all dimensions nominal.
4 EPA's based on shaft properties with wind normal to flat. EPA's calculated using base wind velocity as indicated plus 30% gust factor.

DRILLING PATTERN

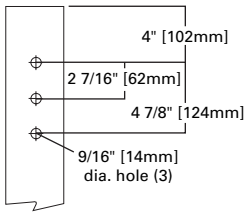
Type "M" [RCL, Landau, Galleria and Vision]



Type "E" [Concourse III]



Type "Z" [Credenza and Cirrus]



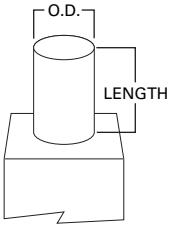
MACHINING FOR RECTANGULAR ARMS [Add as suffix]

Designation Letter & Number	Designation Letter & Number	Designation Letter & Number	Quantity & Location
M1	E1	Z1	Single
M2	E2	Z2	2 @ 180°
M3	E3	Z3	3 @ 120°
M4	E4	Z4	4 @ 90°
M5	E5	Z5	2 @ 90°
M6	E6	Z6	3 @ 90°
M7	E7	Z7	2 @ 120°

NOTES: Refer to Fixture Drilling Options on page 160.

MOUNTING OPTIONS [Add as suffix]

Fixed Tenon



Designation Number	O.D. (In.)	Length (In.)
1	2 3/8	3 1/2
2	2 3/8	4
3	3 1/2	5
9	3	4

ACCESSORIES

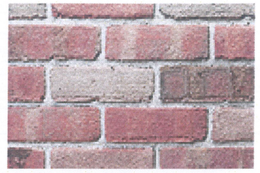
A=1/2" tapped hub [1]
B=3/4" tapped hub [1]
C=Convenience outlet [2]
G=Grounding lug (max. wire #8 AWG)
H=Additional hand hole and cover—
12" below pole top—90° from hand hole.

NOTES: 1 Location is 3' above base–90° from hand hole.
2 Outlet is located 4' above base and on same side of pole as hand hole, unless specified otherwise. Receptacle not included, provision only.

NOTE: Specifications and dimensions subject to change without notice.

BRICK

- Belcrest 560
- Belcrest 700
- Belcrest 730
- Belcrest 760
- Berwick Blend
- Berwick Red Range
- Bismarck Blend
- Buckingham Clear
- Buckingham Full Range
- Burgundy Blend
- Canyon Full Range Smooth
- Canyon Full Range Velour
- Canyon Smooth
- Canyon Velour
- Casino Blend
- Century Reds
- Cherry Bark
- Cherry Velour
- Claret Full Range Smooth
- Claret Full Range Velour
- Claret Smooth
- Claret Velour
- Colony Blend
- Colony Red Range
- Commodore Full Range Smooth
- Commodore Full Range Velour
- Commodore Smooth
- Commodore Velour
- Garden Blend
- Heritage Blend
- Homestead Blend
- Indian Full Range
- Indian Red Clear
- Kingsport
- London Blend
- Mohawk Blend
- No 9 Blend

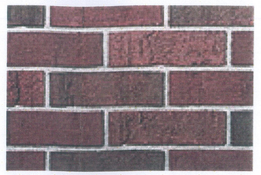

Belcrest 550

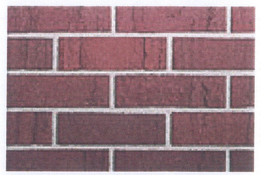
Belcrest 560

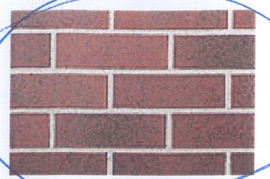
Belcrest 700

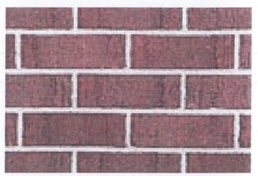
Belcrest 730

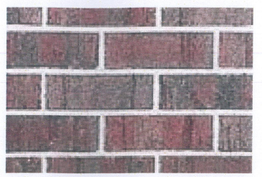
Belcrest 760

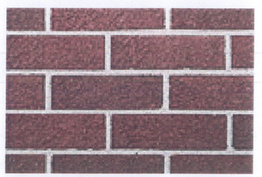

Berwick Blend


Berwick Red Range

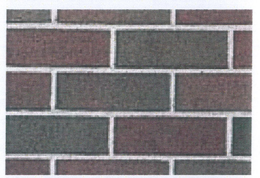

Bismarck Blend

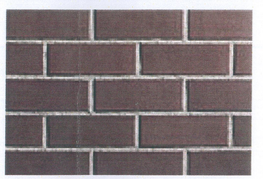

Buckingham Clear

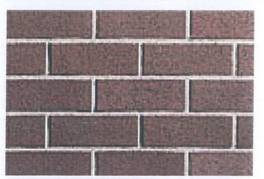

Buckingham Full Range

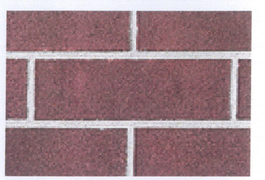

Burgundy Blend

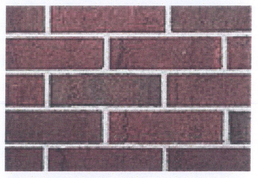
Canyon Full Range Smooth

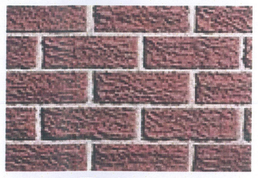

Canyon Full Range Velour

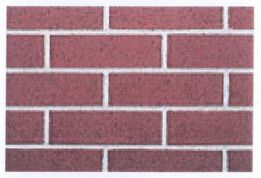

Canyon Smooth


Canyon Velour


Casino Blend


Century Reds


Cherry Bark


Cherry Velour

Claret Full Range Smooth

Claret Full Range Velour

Claret Smooth

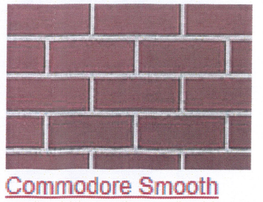
Claret Velour

Colony Blend

Colony Red Range

Commodore Full Range Smooth

Commodore Full Range Velour


Commodore Smooth

EIFS

- View Colors
- A World Of Design Possibilities

Colors To Match Your Imagination

Before Making A Final Color Selection
Please note that the on-screen colors may not precisely match actual colors due to variance in monitor calibrations.
It is the intent and purpose of this web-based color chart to provide a basic representation of Dryvit Systems finish colors and is offered as a sales aid only to select a range of colors for final selection.
This web-based color chart shall not be used for final color selection as color differences may occur from one computer to another.
Actual color selection should be made from 8" x 10" samples of each finish type, texture and color to be used on the project. Samples shall be prepared using the same tools and techniques proposed for the actual installation by the applicator/contractor.

Color At Your Fingertips Color Chart (DS503)
All colors shown below use the surface texture Sandblast

Click on image below to view a larger image

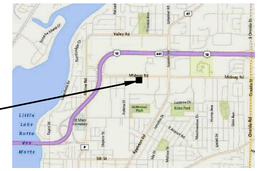
---

102 Brite White	310 China White	456 Oyster Shell	311B Creamy Pink
103 Natural White	442 Cotton	522 Lite Gray	463A Steph's Mood
104 Dover Sky	107 Sunset Yellow	386A Pure Cream	396 Alabaster
131 Gull Gray	109A Eggshell Cream	115 Beach	368B Parchment
111 Prairie Clay	113 Amarillo White	379B Whisper	398B Powder Tan
106 Pearl Ash	108 Manor White	612 Moonlight	455A Pearl
112 Sandlewood Beige	105 Suede	449 Buckskin	385A Sandpiper
117 Colonial Tan	110 Van Dyke	387A Pancake	443A Canvas
142 SpectrumBrown	383 Honey Twist	116 Victorian Lace	101 Super White
139 Adobe Accent	389 Southern Tan	399 Coffee Milk	613B Overcast
133 Driftwood	339A Caribou	380 Chocolate Mousse	132 Mountain Fog

SHINGLES

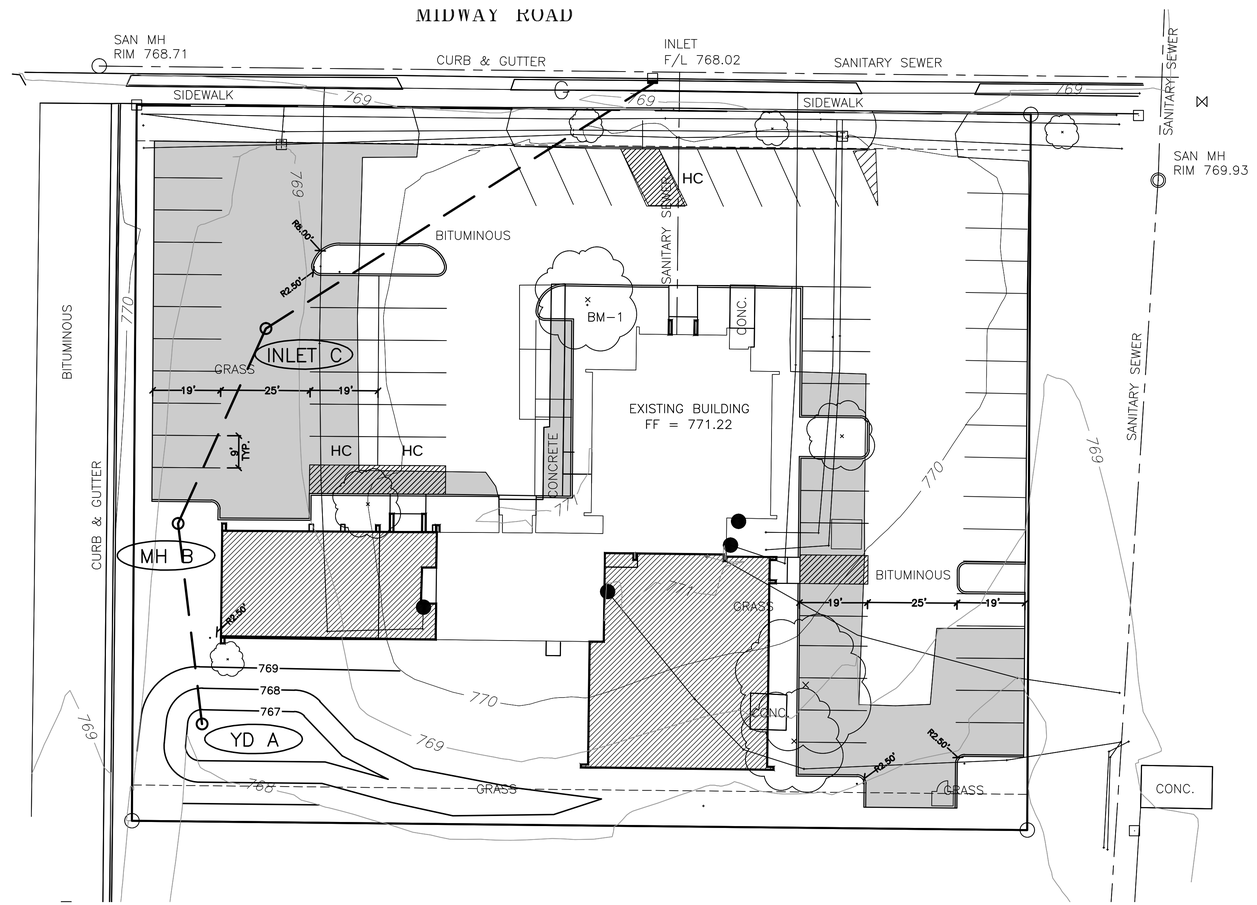
SITE PLAN: HABITAT FOR HUMANITY FOX CITIES OFFICE

LOCATION MAP



PROJECT SITE

NO SCALE



0 20 40

SCALE IN FEET

INDEX OF SHEETS	
DRAWING NO.	DESCRIPTION:
C101	SITE PLAN
C103	DEMOLITION PLAN
C301	DRAINAGE PLAN
C401	EROSION CONTROL PLAN
C402	EROSION CONTROL DETAILS
C403	EROSION CONTROL DETAILS
C501	STANDARD DETAIL DRAWINGS

PERTINENT CONTACTS	CONTACT PERSON	PHONE
SURVEYOR	GARY ZAHRINGER	920-731-0381
ENGINEER	MIKE SIEWERT	920-731-0381
ARCHITECT	TIM CARLSON	920-731-0381

SITE PLAN NOTES	
1.	ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY OF MENASHA REGULATIONS AND CODES.
2.	ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
3.	ALL DIMENSIONS ARE TO THE EDGE OF BUILDING OR FACE OF CURB.
4.	CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
5.	NO HAZARDOUS MATERIALS WILL BE STORED ON SITE.
6.	ALL STOP SIGNS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION M.U.T.C.D, LATEST VERSION.
7.	THE CONTRACTOR AND/OR OWNER SHALL NOT PROCEED WITH LAND DISTURBING ACTIVITIES PRIOR TO RECEIVING WRITTEN NOTICE TO PROCEED FROM THE ENGINEER.
8.	NO OUTDOOR STORAGE OR DISPLAY IS PROPOSED.

TOPOGRAPHIC LEGEND

1" x 18" IRON PIPE SET	OVERHEAD POWER LINES
1-1/4" x 30" REBAR SET	UNDERGROUND ELECTRIC
CHISELED "X" SET	UNDERGROUND TELEPHONE
3/4" REBAR FOUND	UNDERGROUND FIBEROPTIC
1" IRON PIPE FOUND	UNDERGROUND GAS
1-1/4" REBAR FOUND	UNDERGROUND CABLE TV
2" IRON PIPE FOUND	EXIST. FENCE LINE
CHISELED "X" FOUND	SIGN
GOVERNMENT CORNER	POWER POLE
RECORDED AS	GUY
CONIFEROUS TREE	LIGHT POLE
DECIDUOUS TREE	TELEPHONE PEDESTAL
EXIST. WOODS LINE	ELECTRIC PEDESTAL
WETLANDS	CABLE PEDESTAL
SOIL BORING	EXIST. HYDRANT
	WATER VALVE
	WATER STOP BOX
	GAS VALVE
	EXIST STORM MANHOLE
	STORM INLET
	YARD DRAIN
	EXIST SANITARY MANHOLE
	EXIST. SAN. SEWER
	EXIST. STO. SEWER
	EXIST. WATER MAIN
000.00	EXIST. SPOT ELEVATION
000	CONTOUR W/ ELEVATION
000.00tc	EXIST. TOP OF CURB ELEV.
000.00fl	EXIST. FLOW LINE ELEV.
FF = 000.00	FIRST FLOOR = 000.00
	TOPSOIL DEPTH
	INFILTRATION SOIL BORING

SITE PLAN LEGEND

PROPOSED ASPHALT (LIGHT DUTY)

BUILDING SIZE

EXISTING BUILDING 4,100 SF (+ 1,600 SF BSMT)

1-STORY ADDITIONS 4,648 GSF

CONSTRUCTION, OFFICE USE
NOT FIRE SPRINKLER

SITE DATA

LOT 1: AREA = 50,015 SF (1.15 AC)

LOT 1 PROJECT AREA

EXISTING OPEN SPACE = 30,004 SF
EXISTING IMPERVIOUS SURFACE = 20,011 SF
PROPOSED OPEN SPACE = 12,276 SF
PROPOSED IMPERVIOUS SURFACE = 37,739 SF
PROPOSED DISTURBANCE AREA = 17,728 SF

ZONING DATA

CURRENT ZONING DISTRICT:
GENERAL COMMERCIAL DISTRICT (C-1)

SITE/PROJECT INFORMATION

PROPERTY ADDRESS:
921 MIDWAY ROAD, MENASHA, WI
PARCEL NUMBER: 7-400782-01

PARKING CALCULATIONS

EXISTING NO. OF PARKING STALLS = 39

PROPOSED NO. OF PARKING STALLS = 64

SIGNAGE

NO SIGNAGE AT THIS TIME

CLIENT INFORMATION:

GREATER FOX CITIES
HABITAT FOR HUMANITY, INC.
921 MIDWAY ROAD, MENASHA, WI 54952
JODY HARKNESS
PHONE: (920) 968-6356

PROJECT ARCHITECT:

MARTENSON & EISELE, INC.
ATTN: TIM CARLSON
1377 MIDWAY ROAD
MENASHA, WI 54952
timc@martenson-eisele.com
PHONE: 920-731-0381

ENGINEER:

MARTENSON & EISELE, INC.
ATTN: MIKE SIEWERT, P.E.
1377 MIDWAY ROAD
MENASHA, WI 54952
mikes@martenson-eisele.com
PHONE: 920-731-0381

NRCS SOILS

NhA NEENAH SILTY CLAY LOAM
Hydrologic Soil Type D.

WnB WINNECONNE SILTY CLAY LOAM
Hydrologic Soil Type D.

LEGAL DESCRIPTION

LOT 1 of CSM #2308 PART OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4, IN SECTION 11, TOWNSHIP 20 NORTH, RANGE 17 EAST, CITY OF MENASHA, WINNEBAGO COUNTY, WISCONSIN

Martenson & Eisele, Inc.
Planning
Environmental
Surveying
Engineering
Architecture
1377 Midway Road
Menasha, WI 54952
www.martenson-eisele.com
info@martenson-eisele.com
920.731.0381 1.800.236.0381

DRAWN BY	CHECKED	APPROVED
EAE	MSS	

NO.	REVISION	DATE

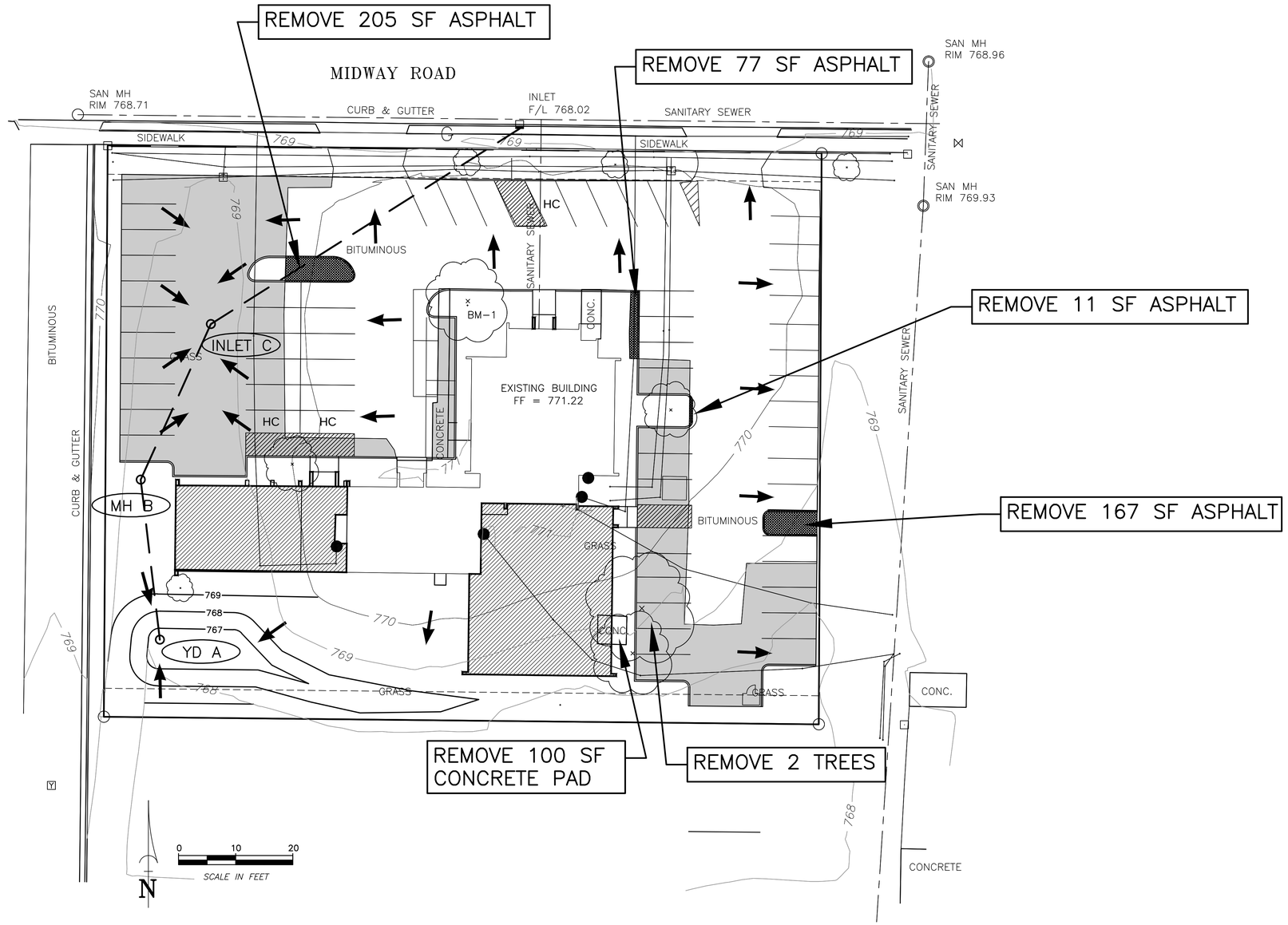
SITE PLAN
HABITAT FOR HUMANITY OFFICE
CITY OF MENASHA, WINNEBAGO COUNTY, WISCONSIN

SCALE	DATE
BAR SCALE	8/13/2015

COMPUTER FILE
1-0046-031de.dwg

DRAWING NO.
C101

DEMOLITION PLAN: HABITAT FOR HUMANITY



TOPOGRAPHIC LEGEND

■	1" x 18" IRON PIPE SET	—OH—	OVERHEAD POWER LINES
▲	1-1/4" x 30" REBAR SET	—E—E—	UNDERGROUND ELECTRIC
×	CHISELED "X" SET	—T—T—	UNDERGROUND TELEPHONE
⊙	3/4" REBAR FOUND	—FIBER—	UNDERGROUND FIBEROPTIC
□	1" IRON PIPE FOUND	—G—G—	UNDERGROUND GAS
△	1-1/4" REBAR FOUND	—CATV—	UNDERGROUND CABLE TV
◪	2" IRON PIPE FOUND	—x—x—	EXIST. FENCE LINE
⊗	CHISELED "X" FOUND		SIGN
	GOVERNMENT CORNER		POWER POLE
( )	RECORDED AS		GUY
	CONIFEROUS TREE		LIGHT POLE
	DECIDUOUS TREE		TELEPHONE PEDESTAL
	EXIST. WOODS LINE		ELECTRIC PEDESTAL
	WETLANDS		CABLE PEDESTAL
	SOIL BORING		EXIST. HYDRANT
			WATER VALVE
			WATER STOP BOX
			GAS VALVE
			EXIST STORM MANHOLE
			STORM INLET
			YARD DRAIN
			EXIST SANITARY MANHOLE
			EXIST. SAN. SEWER
			EXIST. STO. SEWER
			EXIST. WATER MAIN
		000.00	EXIST. SPOT ELEVATION
		000	CONTOUR W/ ELEVATION
		000.00tc	EXIST. TOP OF CURB ELEV.
		000.00fl	EXIST. FLOW LINE ELEV.
		FF = 000.00	FIRST FLOOR = 000.00
			TOPSOIL DEPTH
			INFILTRATION SOIL BORING

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Menasha, WI 54952
www.martenson-eisele.com
info@martenson-eisele.com
920.731.0381 1.800.236.0381

NO.	DRAWN BY / DATE	CHECKED	APPROVED / REVISION
	EAE		MSS

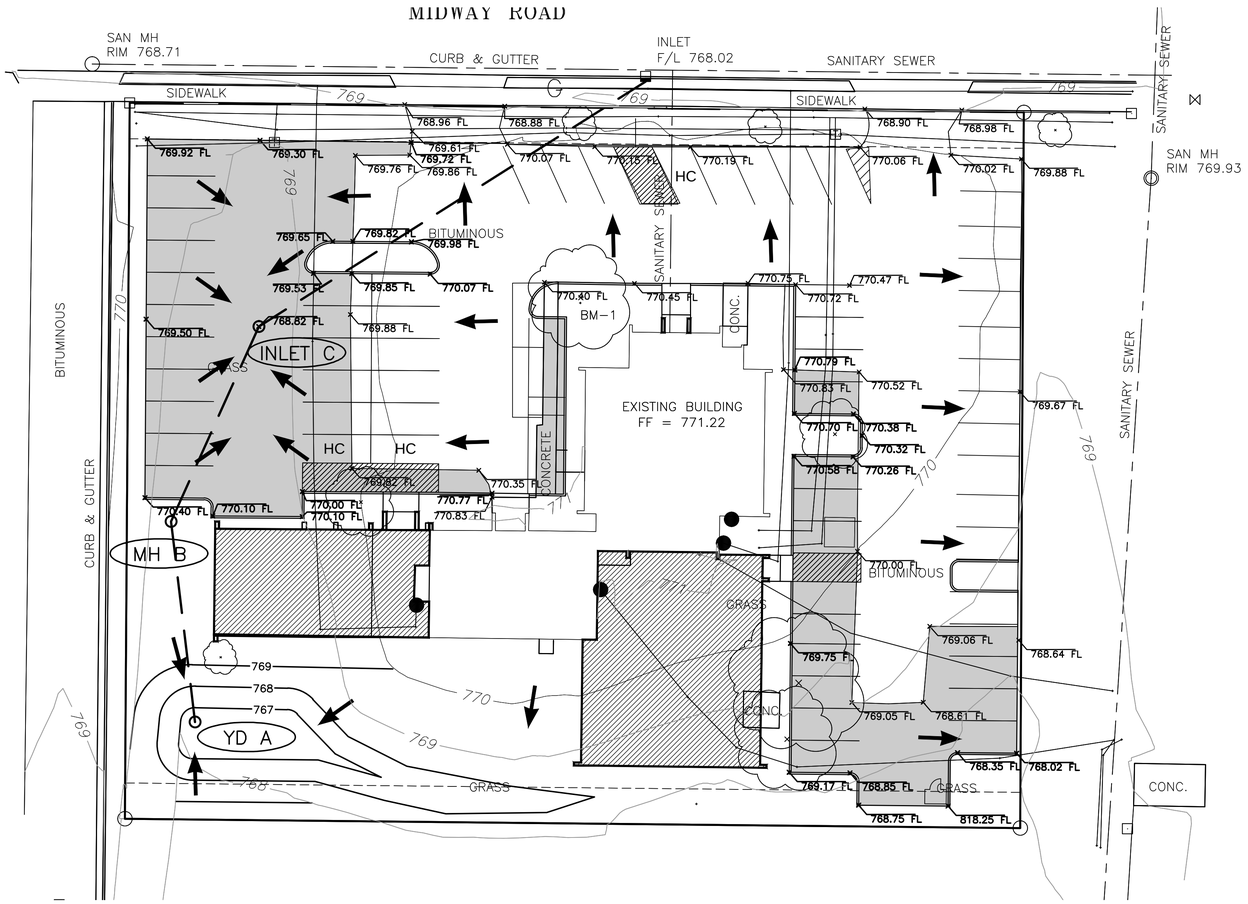
DEMOLITION PLAN
HABITAT FOR HUMANITY OFFICE
CITY OF MENASHA, WINNEBAGO COUNTY, WISCONSIN

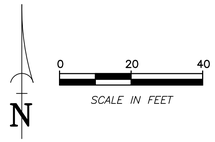
SCALE	DATE
BAR SCALE	8/13/2015

COMPUTER FILE
1-0046-031de.dwg

DRAWING NO.
C103

DRAINAGE/GRADING PLAN: HABITAT FOR HUMANITY





BENCHMARK DATA		
I.D.	DESCRIPTION:	ELEVATION:
BM1	TOP OF HYDRANT NW CORNER LIGHTNING DRIVE	751.70
BM2	TOP OF HYDRANT S/S 375' E/O LIGHTNING DRIVE	751.72
BM3	TOP OF HYDRANT S/S 650' W/O PROVIDENCE AVENUE	746.89

DRAINAGE PLAN NOTES

1. THE LOCATION OF EXISTING UTILITY FACILITIES AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL HAVE ALL FACILITIES LOCATED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF A CONFLICT WITHIN THE WORK IS DISCOVERED.
2. ALL WORK UNDER THIS CONTRACT SHALL BE DONE IN ACCORDANCE WITH THE CITY OF MENASHA STANDARD SPECIFICATIONS, ALONG WITH THE LATEST EDITION OF THE STATE OF WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.
3. THE PROPOSED ELEVATIONS SHOWN ON THE DRAINAGE PLANS THAT ARE ADJACENT TO ABUTTING PROPERTIES MAY VARY FROM 5' TO 10' FROM THE PROPERTY CORNERS.
4. THE LANDSCAPER SHALL UTILIZE THE PROPOSED ELEVATIONS. THE LANDSCAPER SHALL NOT GRADE UP TO ANY PEDESTAL OR ANY OTHER STRUCTURE TO DETERMINE ELEVATION.
5. THE CONTRACTOR AND/OR OWNER SHALL NOT PROCEED WITH CONSTRUCTION ACTIVITIES UNTIL APPROPRIATE PERMITS/APPROVALS ARE OBTAINED.
6. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS FOR CONSTRUCTION.
7. THE CONTRACTOR SHALL CLEAN UP ALL EXCESS MATERIAL AND DEBRIS CAUSED AS A RESULT OF WORK UNDER THIS CONTRACT.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE RESULTING FROM THE PERFORMANCE OF THE WORK UNDER THIS CONTRACT.
9. CONTRACTOR SHALL DISPOSE OF NON-SUITABLE MATERIAL OFF-SITE.
10. AREAS WITH AN EXCESS FILL HEIGHT OF 3' SHALL BE STRIPPED OF TOPSOIL AND COMPACT EACH LAYER TO 95 PERCENT OF MAXIMUM DENSITY, OR MORE, BEFORE PLACING SUBSEQUENT LAYER.

DRAINAGE PLAN LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- STORM SEWER MAIN
- YARD DRAIN
- 2' x 3' PRECAST STORM INLET
- X (000.00) PROPOSED PAVEMENT ELEVATION
- X (000.00) PERTINENT DITCH OR SWALE ELEVATION
- +893.73 EXISTING ELEVATION
- 000.0 PROPOSED GROUND AT FOUNDATION
- DIRECTION OF DRAINAGE

TOPOGRAPHIC LEGEND

- 1" x 18" IRON PIPE SET
- 1-1/4" x 30" REBAR SET
- CHISELED "X" SET
- 3/4" REBAR FOUND
- 1" IRON PIPE FOUND
- 1-1/4" REBAR FOUND
- 2" IRON PIPE FOUND
- CHISELED "X" FOUND
- GOVERNMENT CORNER
- ( ) RECORDED AS
- CONIFEROUS TREE
- DECIDUOUS TREE
- EXIST. WOODS LINE
- WETLANDS
- SOIL BORING
- OVERHEAD POWER LINES
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- UNDERGROUND FIBEROPTIC
- UNDERGROUND GAS
- UNDERGROUND CABLE TV
- EXIST. FENCE LINE
- SIGN
- POWER POLE
- GUY
- LIGHT POLE
- TELEPHONE PEDESTAL
- ELECTRIC PEDESTAL
- CABLE PEDESTAL
- EXIST. HYDRANT
- WATER VALVE
- WATER STOP BOX
- GAS VALVE
- EXIST STORM MANHOLE
- STORM INLET
- YARD DRAIN
- EXIST SANITARY MANHOLE
- EXIST. SAN. SEWER
- EXIST. STO. SEWER
- EXIST. WATER MAIN
- 000.00 EXIST. SPOT ELEVATION
- CONTOUR W/ ELEVATION
- 000.00c EXIST. TOP OF CURB ELEV.
- 000.00fl EXIST. FLOW LINE ELEV.
- FF = 000.00 FIRST FLOOR = 000.00
- TOPSOIL DEPTH
- INFILTRATION SOIL BORING

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NO.	DATE	REVISION	APPROVED
			MSS

DRAWN BY: JJR
CHECKED:

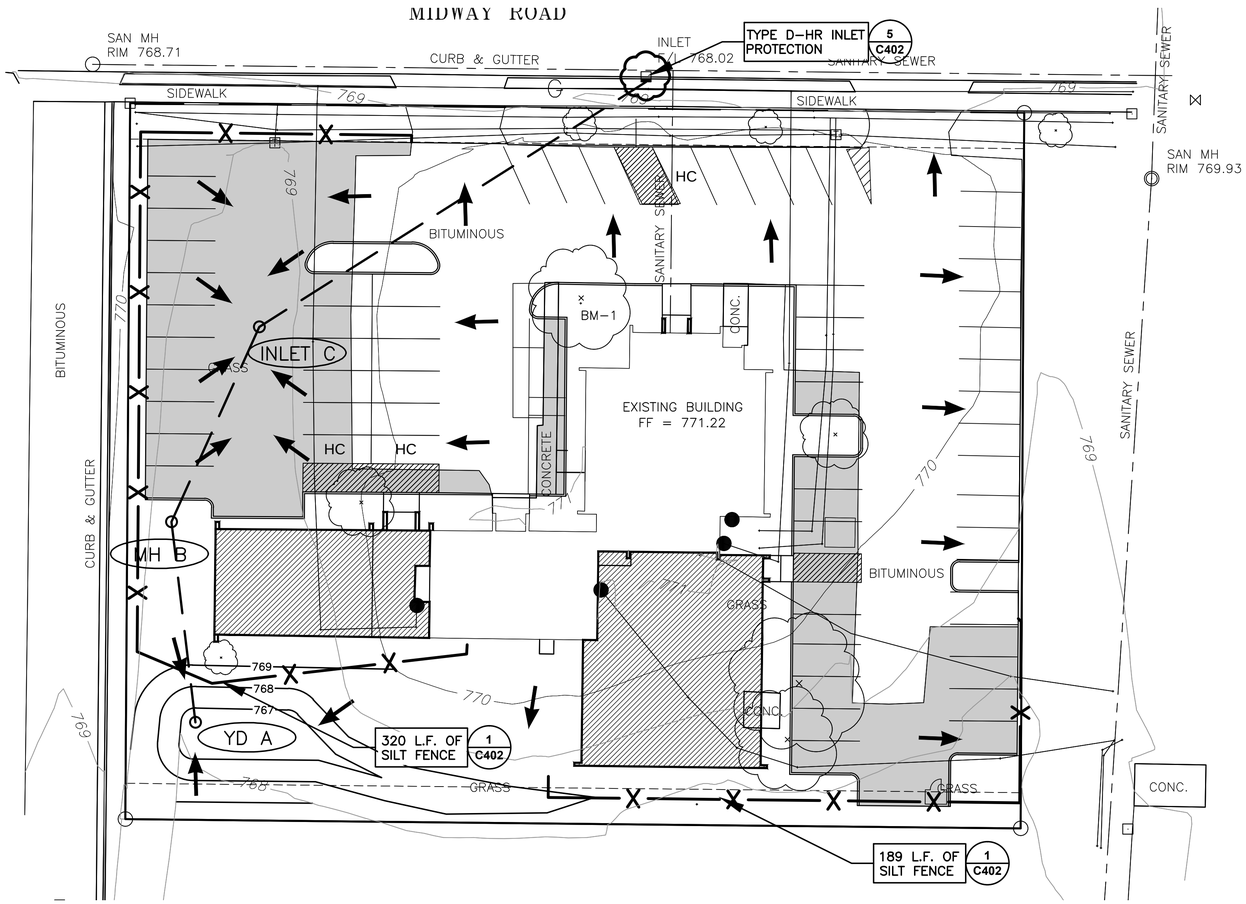
DRAINAGE/GRADING PLAN
HABITAT FOR HUMANITY OFFICE
CITY OF MENASHA, WINNEBAGO COUNTY, WISCONSIN

SCALE	DATE
BAR SCALE	8/13/2015

COMPUTER FILE
1-0046-031de.dwg

DRAWING NO.
C301

EROSION CONTROL PLAN: HABITAT FOR HUMANITY



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SCALE IN FEET

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EROSION CONTROL NOTES

1.	THE CONTRACTOR SHALL INSTALL SILT FENCE AROUND THE PERIMETER OF THE PROJECT AS SHOWN ON THIS PLAN PRIOR TO ANY CONSTRUCTION INCLUDING STRIPPING TOPSOIL.
2.	ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL THE COMPLETION OF HIS CONTRACT.
3.	THE CONTRACTOR SHALL MAINTAIN SAID EROSION CONTROL DEVICES UNTIL THE COMPLETION OF HIS CONTRACT AND SHALL NOT REMOVE THE EROSION CONTROL DEVICES UNTIL VEGETATION IS ESTABLISHED.
4.	THE GRADING CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS IMMEDIATELY WHEN FINAL GRADE IS ESTABLISHED. SEED MIXTURE SHALL BE ACCORDING TO THE SPECIFICATIONS.
5.	THE CONTRACTORS SHALL PREVENT TRACKING ON EXISTING STREETS. ANY SEDIMENT TRACKED ONTO EXISTING STREETS SHALL BE CLEANED UP DAILY.
6.	INSTALLATION AND MAINTENANCE OF EROSION CONTROL SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS.
7.	SILT FENCES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AS SOON AS WORK IS COMPLETE IN THAT AREA.

CONTRACTOR RESPONSIBILITIES

1.	NOTIFY THE INSPECTOR WITHIN 48 HOURS OF COMMENCING ANY LAND DISTURBING OR LAND DEVELOPMENT ACTIVITY;
2.	NOTIFY THE ENGINEER OF COMPLETION OF ANY EROSION CONTROL MEASURES WITHIN 3 DAYS AFTER COMPLETION;
3.	OBTAIN PERMISSION IN WRITING FROM THE ENGINEER PRIOR TO MODIFYING THE EROSION CONTROL PLAN.
4.	INSTALL ALL EROSION CONTROL MEASURES AS IDENTIFIED IN THE APPROVED EROSION CONTROL PLAN;
5.	REPAIR ANY SILTATION OR EROSION DAMAGE TO ADJOINING SURFACES AND DRAINAGE WAYS RESULTING FROM LAND DEVELOPING OR DISTURBING ACTIVITIES;
6.	MAINTAIN ALL ON- AND OFF- SITE STORM WATER DRAINAGE SYSTEMS AS IDENTIFIED ON THE EROSION CONTROL PLAN.
7.	REPAIR ANY EROSION CONTROL SYSTEM INSTALLED IN ACCORDANCE TO THE EROSION CONTROL PLAN.
8.	INSPECT THE CONSTRUCTED EROSION CONTROL MEASURES AFTER EACH RAIN OF 0.5 INCHES OR MORE AND AT LEAST ONCE EACH WEEK AND MAKE NEEDED REPAIRS.
9.	ALLOW THE ENGINEER TO ENTER THE SITE FOR THE PURPOSE OF INSPECTING COMPLIANCE WITH THE EROSION CONTROL PLAN OR FOR PERFORMING ANY WORK NECESSARY TO BRING THE SITE INTO COMPLIANCE WITH THE EROSION CONTROL PLAN.
10.	KEEP A COPY OF THE APPROVED EROSION CONTROL PLAN ON THE SITE.
11.	ALL AREAS BEING SEEDED SHOULD HAVE A MINIMUM OF 4 INCHES OF SUITABLE TOPSOIL.
12.	GRADING CONTRACTOR SHALL MAINTAIN EROSION CONTROL UNTIL TERMINATION NOTICE IS ISSUED.
13.	ALL DISTURBED AREAS SHALL BE RESTORED WITHIN 7 DAYS OF COMPLETION OF WORK WITHIN THESE AREAS. THIS INCLUDES SOIL STOCKPILES, WHICH SHALL BE STABILIZED BY MULCHING, TEMPORARY SEEDING, SODDING OR COVERING W/ TARPS.
14.	GRADE & GRAVEL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEVICES AFTER SITE STABILIZATION.

EROSION CONTROL PLAN KEY LEGEND

1	SILT FENCE (WDNR NO. 1056)	1 C402
2	TRACKING PROTECTION (WDNR NO. 1057)	2 C402
3	INLET PROTECTION TYPES A,B,C, & D (WDNR NO. 1060)	3 C402
4	INLET PROTECTION TYPE D-M (WDNR NO. 1060)	4 C402
5	INLET PROTECTION TYPE D-HR (WDNR NO. 1060)	5 C402
6	ROCKBAG CULVERT PIPE DITCH CHECK	6 C402
7	TEMPORARY CONCRETE WASHOUT FACILITY	7 C402
8	EROSION CONTROL MAT DETAIL (CLASS1, TYPE A) (WDNR NO. 1053)	1 C403
9	EROSION CONTROL MAT DETAIL (CLASS1, TYPE B) (WDNR NO. 1053)	2 C403
10	SEDIMENT LOG INLET PROTECTION (SEDIMENT LOG INLET PROTECTION SHALL BE 'CURLEX' OR 'STRAW'. UNAPPROVED WOOD CHIP LOG PRODUCTS ARE NOT ALLOWED.)	3 C403
11	SEDIMENT LOG CHANNEL DITCH CHECK (SEDIMENT LOG CHANNEL PROTECTION SHALL BE 'CURLEX' OR 'STRAW'. UNAPPROVED WOOD CHIP LOG PRODUCTS ARE NOT ALLOWED.)	4 C403

GENERAL NOTES

1.	SITE DEWATERING. WATER PUMPED FROM THE SITE SHALL BE TREATED BY TEMPORARY SEDIMENTATION BASINS OR OTHER APPROPRIATE CONTROLS DESIGNED FOR THE HIGHEST DEWATERING PUMPING RATE. WATER MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE OR RECEIVING CHANNELS. (NOT ANTICIPATED)
2.	WASTE AND MATERIAL DISPOSAL. ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED BY RUNOFF INTO A RECEIVING CHANNEL OR STORM SEWER SYSTEM.
3.	TRACKING. THIS SITE SHALL STABILIZE THE EXISTING DRIVE WITH 3" TO 6" (12" THICK) CLEAR AGGREGATE SUFFICIENT TO PREVENT SEDIMENT FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROAD WAYS AS APPROVED BY THE INSPECTOR. ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BEFORE THE END OF EACH WORK DAY. FLUSHING MAY NOT BE USED UNLESS THE SEDIMENT WILL BE CONTROLLED BY A FILTER FABRIC BARRIER, SEDIMENT TRAP, SEDIMENT BASIN OR EQUIVALENT. TRACKING PAD DIMENSIONS ARE SHOWN ON THE EROSION CONTROL PLAN (24'X50' MIN).
4.	DRAIN INLET PROTECTION. ALL ON-SITE STORM DRAIN INLETS AND THE IMPACTED DOWNSTREAM INLETS SHALL BE PROTECTED AS INDICATED ON THE PLAN.
5.	SEDIMENT CLEANUP. ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF A STORM EVENT SHALL BE CLEANED UP BY THE END OF THE NEXT WORK DAY. ALL OTHER OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF LAND DISTURBING ACTIVITIES SHALL BE CLEANED UP BY THE END OF THE WORK DAY.
6.	DISTURBANCE TIMING. ALL ACTIVITIES ON THE SITE SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE AREA OF BARE SOIL EXPOSED AT ANY ONE TIME. EXISTING VEGETATION SHALL BE MAINTAINED AS LONG AS POSSIBLE.

TOPOGRAPHIC LEGEND

■ 1" x 18" IRON PIPE SET	—OH— OVERHEAD POWER LINES	◇◇ GAS VALVE
▲ 1-1/4" x 30" REBAR SET	—E—E— UNDERGROUND ELECTRIC	○ EXIST STORM MANHOLE
× CHISELED "X" SET	—T—T— UNDERGROUND TELEPHONE	▣ STORM INLET
○ 3/4" REBAR FOUND	—FIBER— UNDERGROUND FIBEROPTIC	⊠ YARD DRAIN
□ 1" IRON PIPE FOUND	—G—G— UNDERGROUND GAS	⊙ EXIST SANITARY MANHOLE
△ 1-1/4" REBAR FOUND	— CATV — UNDERGROUND CABLE TV	- - - - - EXIST. SAN. SEWER
◪ 2" IRON PIPE FOUND	—X—X— EXIST. FENCE LINE	- · - · - EXIST. STO. SEWER
⊗ CHISELED "X" FOUND	◆ SIGN	- · - · - EXIST. WATER MAIN
◆ GOVERNMENT CORNER	◇ POWER POLE	000.00 EXIST. SPOT ELEVATION
( ) RECORDED AS	○ GUY	
CONIFEROUS TREE	⌀ LIGHT POLE	000 CONTOUR W/ ELEVATION
DECIDUOUS TREE	◫ TELEPHONE PEDESTAL	000.00ts EXIST. TOP OF CURB ELEV.
EXIST. WOODS LINE	◧ ELECTRIC PEDESTAL	000.00fl EXIST. FLOW LINE ELEV.
WETLANDS	◘ CABLE PEDESTAL	FF = 000.00 FIRST FLOOR = 000.00
SOIL BORING	◇ EXIST. HYDRANT	TOPSOIL DEPTH
	⋈ WATER VALVE	♦ INFILTRATION SOIL BORING
	⊠ WATER STOP BOX	

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			MSS		JJR

EROSION CONTROL PLAN
HABITAT FOR HUMANITY OFFICE
CITY OF MENASHA, WINNEBAGO COUNTY, WISCONSIN

SCALE	DATE
BAR SCALE	8/13/2015

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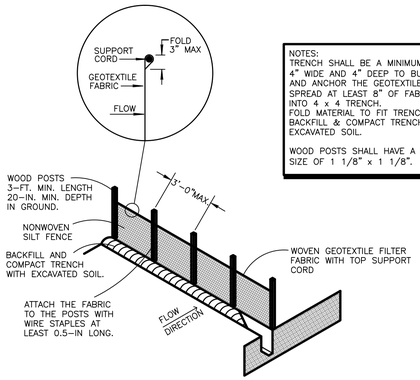
C401

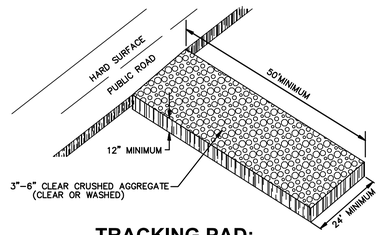
EROSION CONTROL DETAILS: HABITAT FOR HUMANITY



NOTES:
TRENCH SHALL BE A MINIMUM OF 4" WIDE AND 4" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. SPREAD AT LEAST 8" OF FABRIC INTO 4 x 4 TRENCH. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

WOOD POSTS SHALL HAVE A MINIMUM SIZE OF 1 1/8" x 1 1/8".

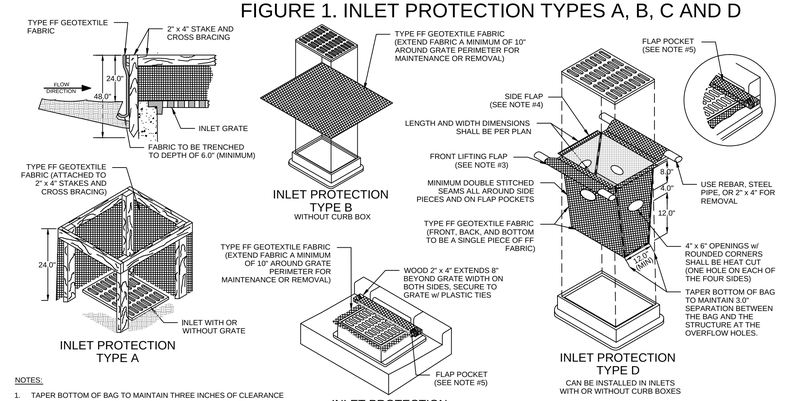
1 / C402 SILT FENCE DETAIL
NTS



2 / C402 TRACKING PAD: CONST. ENTRANCE
NTS

NOTE: DETAILS NOT UTILIZED ON PLANS ARE FOR INFORMATIONAL PURPOSES IN CASE OF UNANTICIPATED FIELD CONDITIONS.

FIGURE 1. INLET PROTECTION TYPES A, B, C AND D



NOTES:

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

MAINTENANCE NOTES:

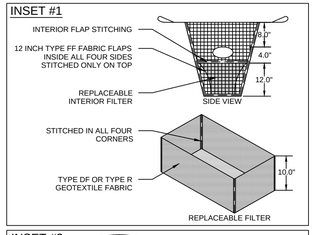
1. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE INLET SHALL BE IMMEDIATELY REMOVED.

3 / C402 INLET PROTECTION DETAIL TYPES A,B,C, & D
NTS

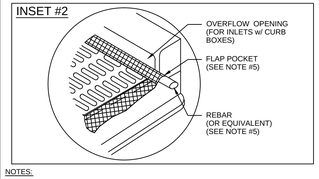
WISCONSIN DNR
1060 TECHNICAL STANDARD No.
08/2014 REVISION DATE
NOT TO SCALE

FIGURE 2. INLET PROTECTION TYPE D-M

INSET #1



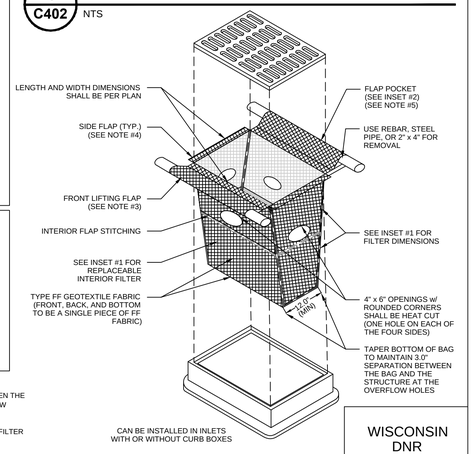
INSET #2



NOTES:

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

4 / C402 INLET PROTECTION DETAIL TYPE D-M
NTS



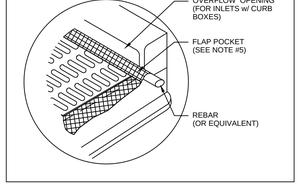
MAINTENANCE NOTES:

1. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE STRUCTURE SHALL BE IMMEDIATELY REMOVED.

WISCONSIN DNR
1060 TECHNICAL STANDARD No.
08/2014 REVISION DATE
NOT TO SCALE

5 / C402 INLET PROTECTION DETAIL TYPE D-HR
NTS

INSET



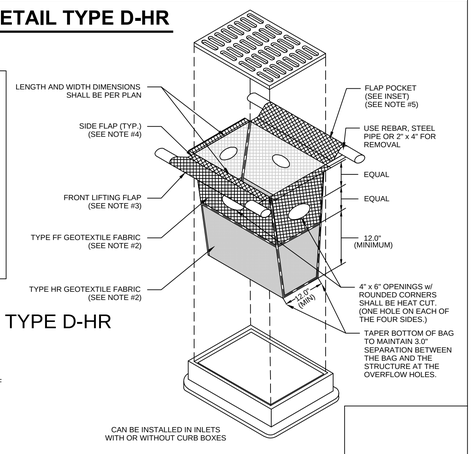


FIGURE 3. INLET PROTECTION TYPE D-HR

NOTES:

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

MAINTENANCE NOTES:

1. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE STRUCTURE SHALL BE IMMEDIATELY REMOVED.

1060 TECHNICAL STANDARD No.
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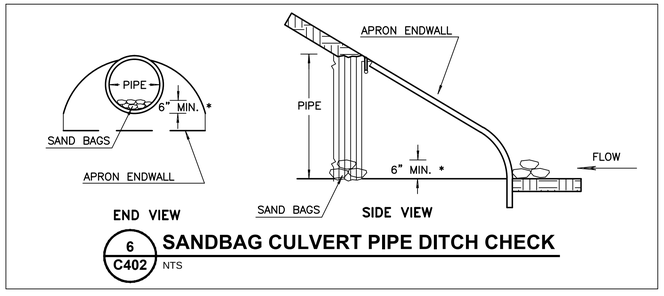
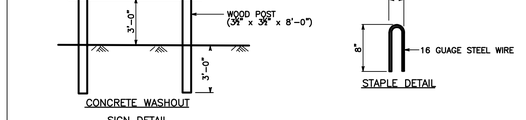
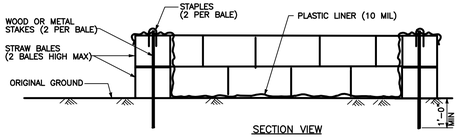
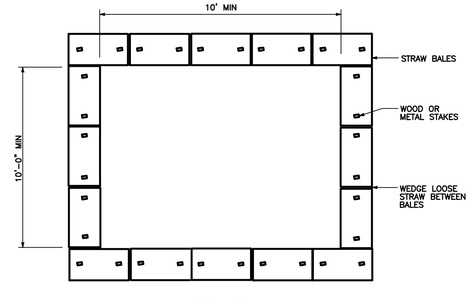


6 / C402 SANDBAG CULVERT PIPE DITCH CHECK
NTS







NOTES:
1. ACTUAL LAYOUT TO BE DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

7 / C402 TEMPORARY CONCRETE WASHOUT FACILITY
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EROSION CONTROL DETAILS
HABITAT FOR HUMANITY OFFICE
CITY OF MENASHA, WINNEBAGO COUNTY, WISCONSIN

SCALE: BAR SCALE
DATE: 8/7/2015
COMPUTER FILE: 1-0046-031de.dwg

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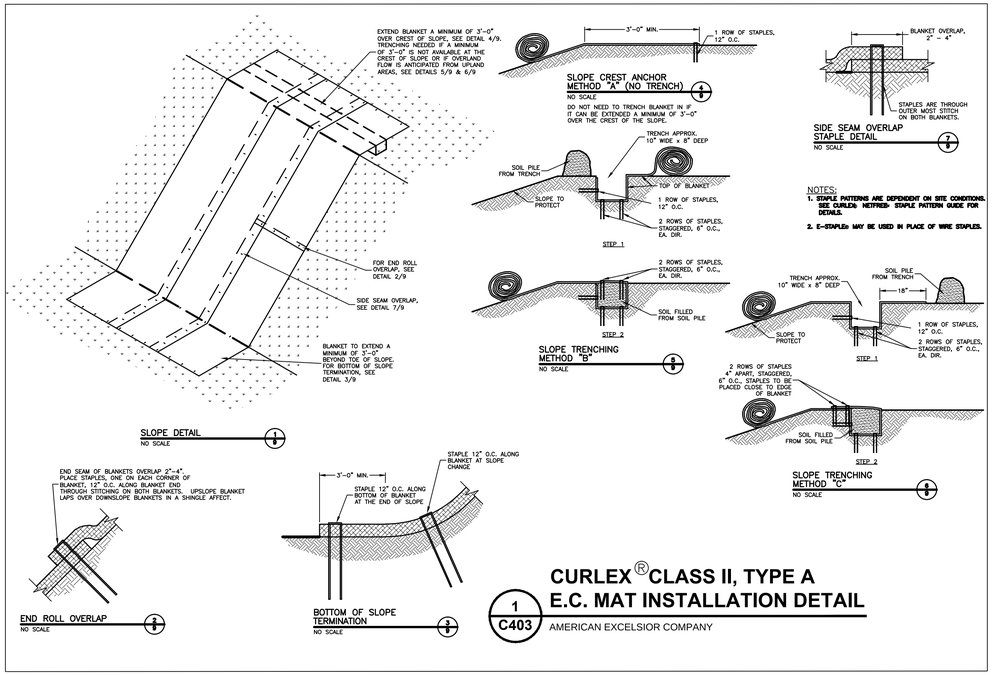
NOTE: DETAILS NOT UTILIZED ON PLANS ARE FOR INFORMATIONAL PURPOSES IN CASE OF UNANTICIPATED FIELD CONDITIONS.

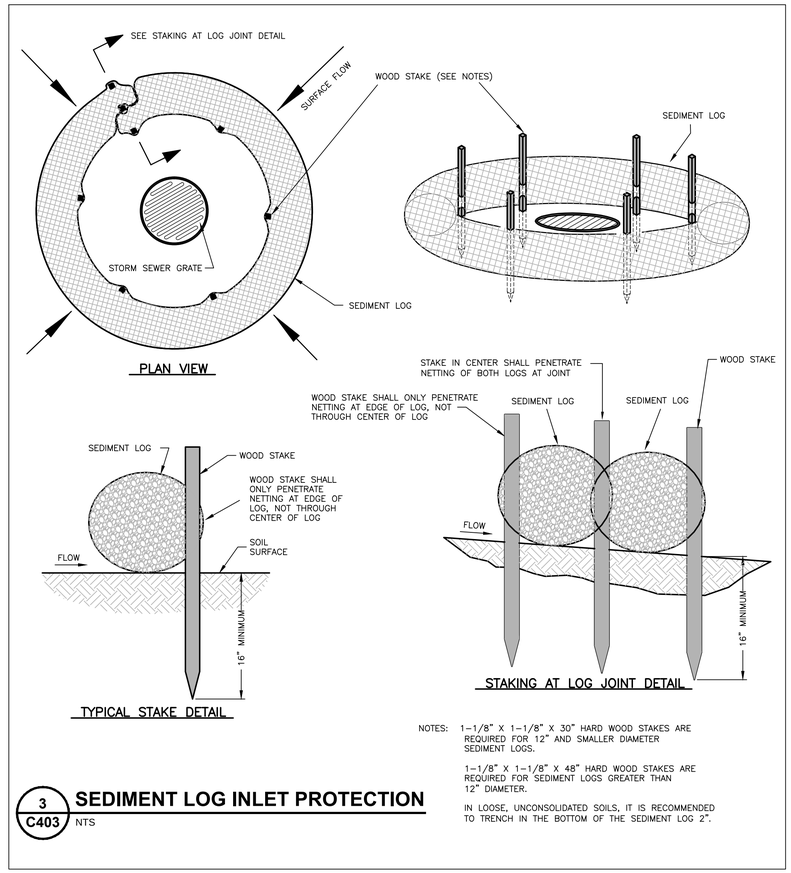
EROSION CONTROL DETAILS: HABITAT FOR HUMANITY



CURLEX® CLASS II, TYPE A E.C. MAT INSTALLATION DETAIL

1 / C403

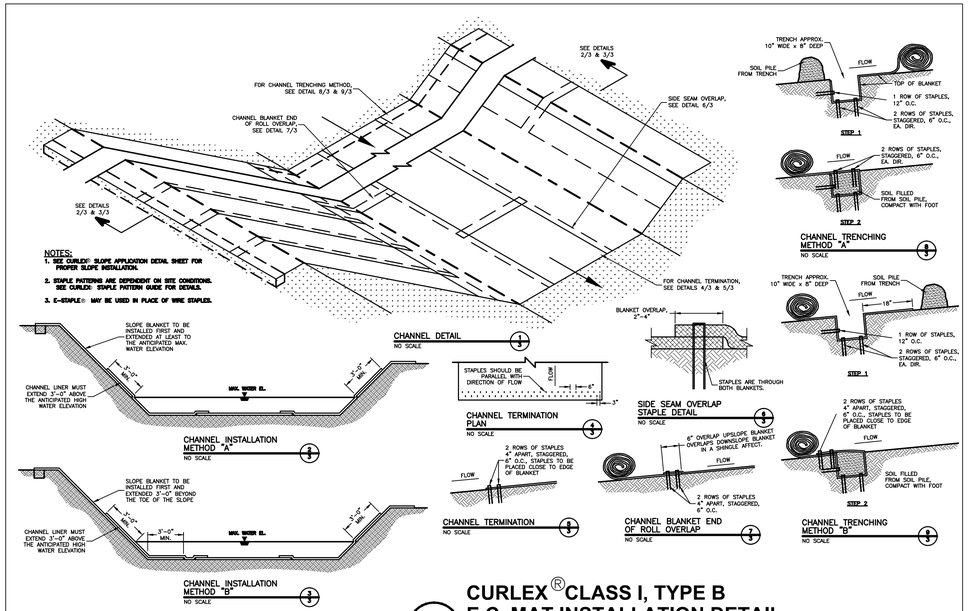
AMERICAN EXCELSIOR COMPANY



SEDIMENT LOG INLET PROTECTION

3 / C403

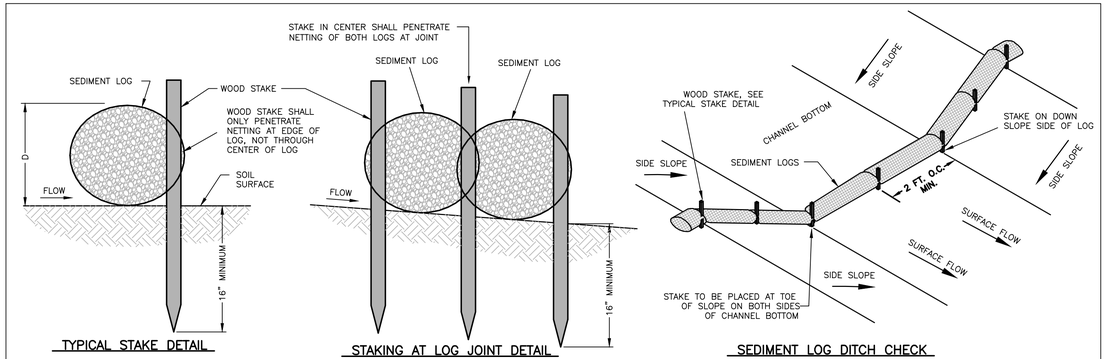
NTS



CURLEX® CLASS I, TYPE B E.C. MAT INSTALLATION DETAIL

2 / C403

AMERICAN EXCELSIOR COMPANY



[DISTANCE BETWEEN CHANNEL BOTTOM AND TOP OF INSTALLED SEDIMENT LOGS (D)(ft)] / [CHANNEL GRADIENT (%)] X 100 = SEDIMENT LOGS SPACING (ft)

NOTES: 1-1/8" X 1-1/8" X 30" HARD WOOD STAKES ARE REQUIRED FOR 12" AND SMALLER DIAMETER SEDIMENT LOGS.

1-1/8" X 1-1/8" X 48" HARD WOOD STAKES ARE REQUIRED FOR SEDIMENT LOGS GREATER THAN 12" DIAMETER.

IN LOOSE, UNCONSOLIDATED SOILS, IT IS RECOMMENDED TO TRENCH IN THE BOTTOM OF THE SEDIMENT LOG 2".

SEDIMENT LOG CHANNEL DITCH CHECK

4 / C403

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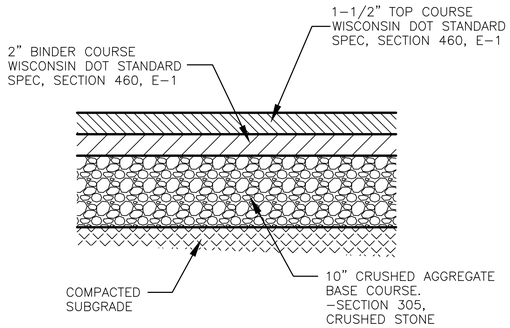
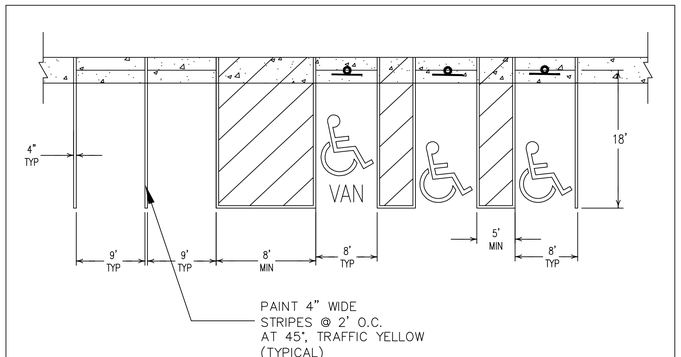
STANDARD DETAIL DRAWINGS: HABITAT FOR HUMANITY



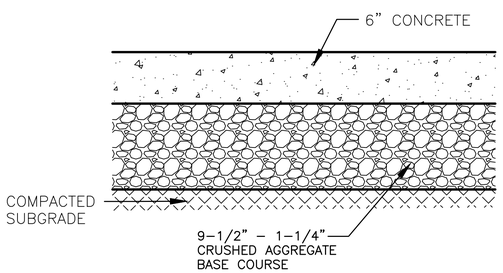
LOWER LAYER: 5" COMPACTED THICKNESS, 1–1/4"

UPPER LAYER: 5" COMPACTED THICKNESS, 3/4"

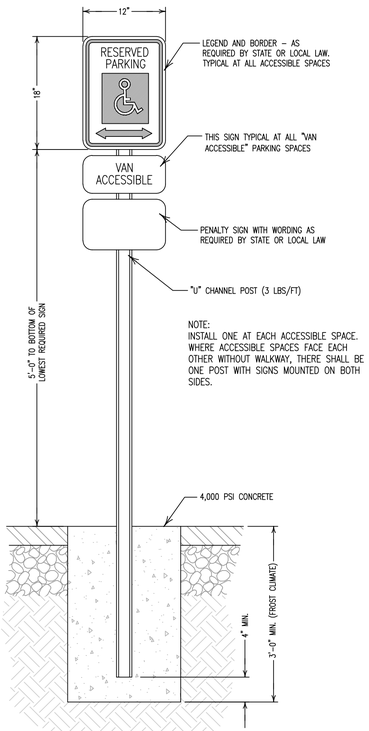
1 / C501 ASPHALT AREAS
NTS



3 / C501 ADA STALL LAYOUT
NTS



2 / C501 CONCRETE PAVEMENT AREAS
NTS



4 / C501 ACCESSIBLE SIGN DETAIL
NTS

Martenson & Eisele, Inc.
Planning
Environmental
Surveying
Engineering
Architecture
1377 Midway Road
Menasha, WI 54952
www.martenson-eisele.com
info@martenson-eisele.com
920.731.0381 1.800.236.0381

NO.	DATE	DRAWN BY	CHECKED	APPROVED
		JJR		MSS

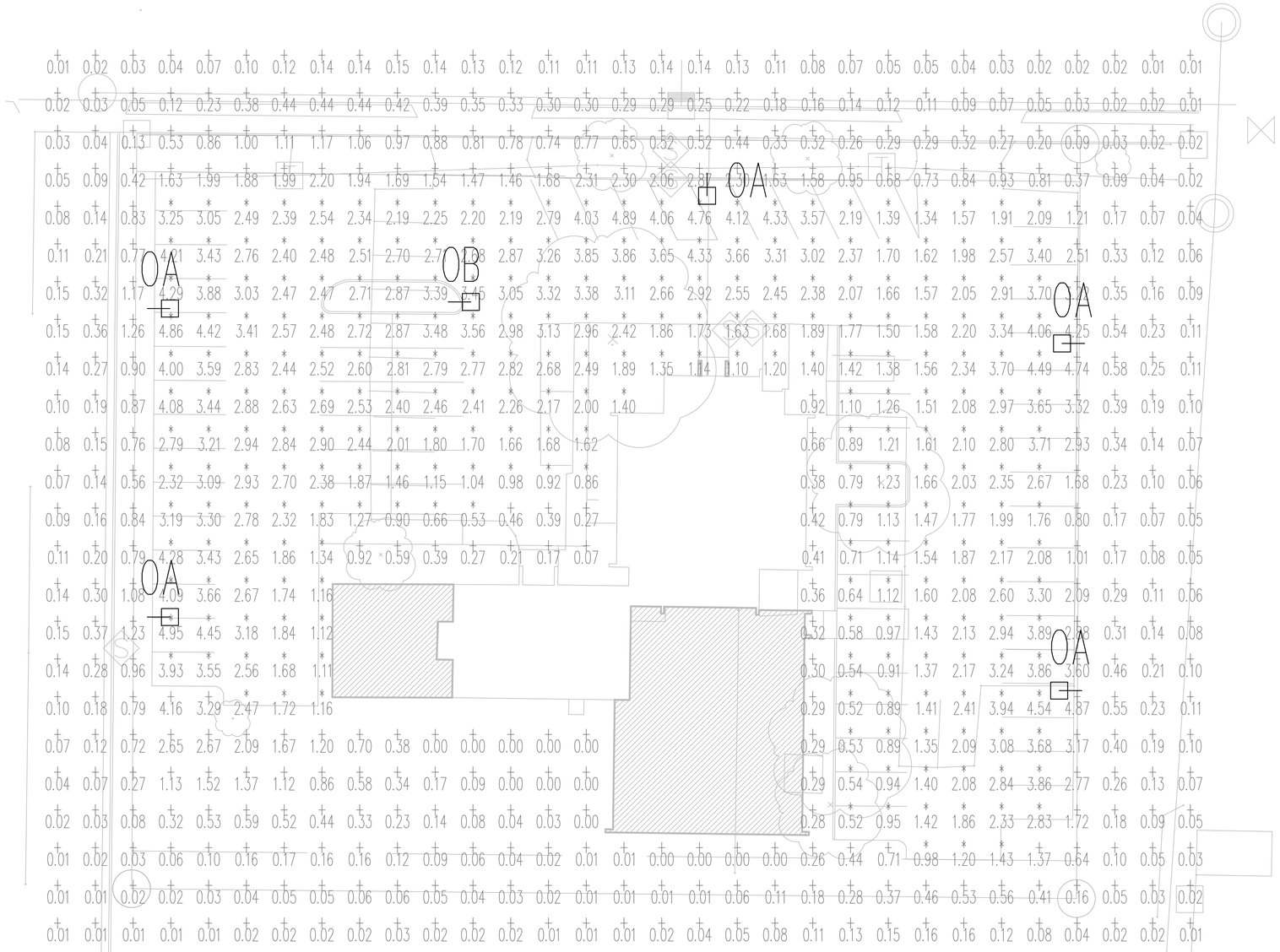
REVISION

STANDARD DETAILS
HABITAT FOR HUMANITY OFFICE
CITY OF MENASHA, WINNEBAGO COUNTY, WISCONSIN

SCALE	DATE
BAR SCALE	8/7/2015

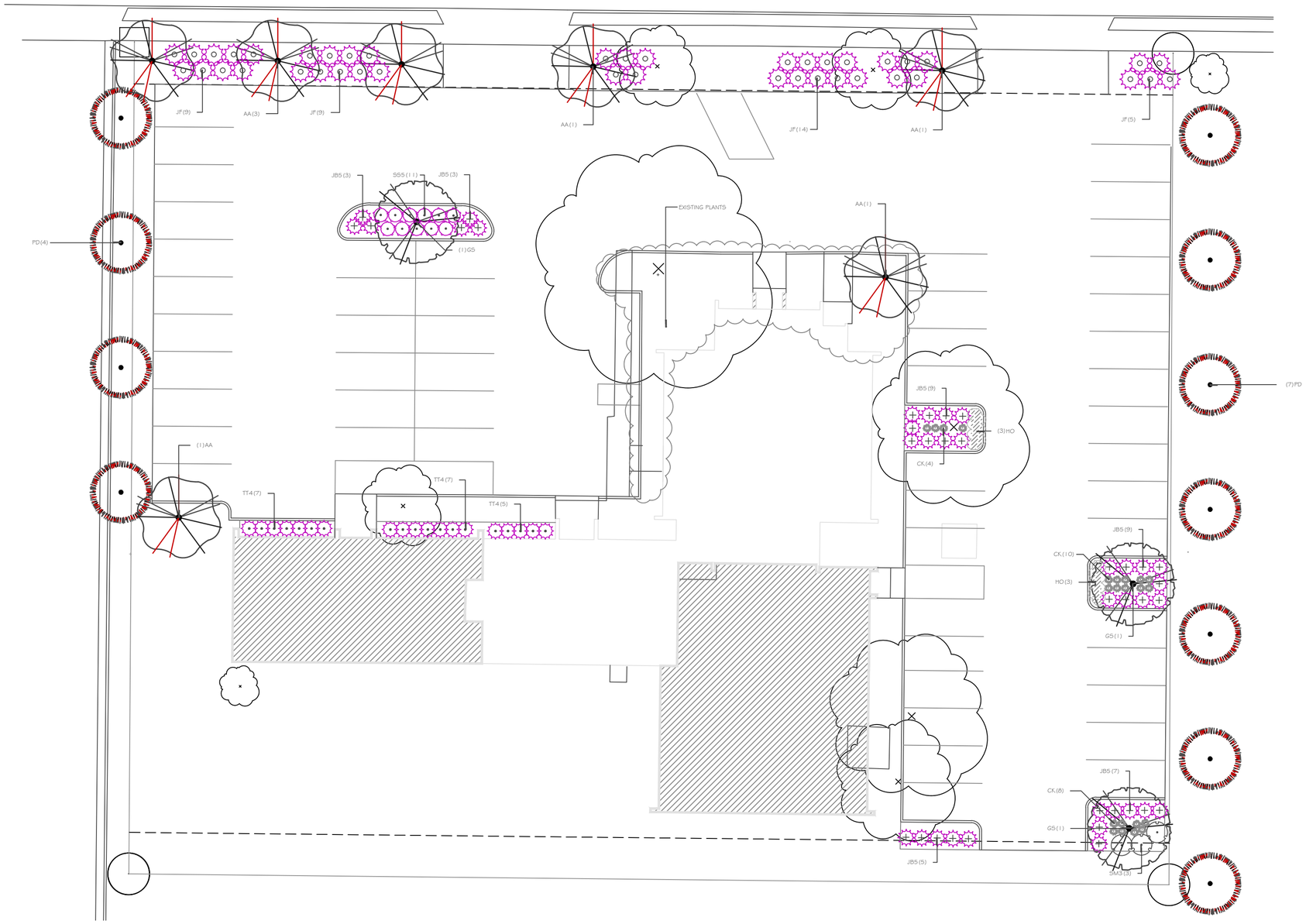
COMPUTER FILE
1-0046-031de.dwg

DRAWING NO.
C501



CALCULATION SUMMARY						
GRID HEIGHT	GROUP	AVE	MAX	MIN	MAX/MIN	AVE/MIN
At Grade	<+> MISC	0.48	4.87	0.00	N/A	N/A
	<*> PARKING	2.39	4.95	0.52	9.48	4.57

Habitat for Humanity LUMINAIRE SCHEDULE						
TYPE	DESCRIPTION	LAMP	LUMENS	MOUNTING	LLF	QTY
OA	McGraw-Edison Galleon (1) GLEON-AE-03-LED-E1-SL4-BZ	157w LED	15601	20' OAH	0.95	5
OB	McGraw-Edison Galleon (1) GLEON-AE-03-LED-E1-5MQ-BZ	157w LED	16454	20' OAH	0.95	1



PLANT SCHEDULE

TREES	COMMON NAME	QTY
AA	Autumn Blaze Maple	7
GS	Skyline Honey Locust	3
PD	Black Hills Spruce	11
SHRUBS	**COMMON NAME**	**QTY**
JF	Sea Green Juniper	42
JB5	Broadmoor Juniper	36
SS5	Superstar Spirea	11
SM3	Miss Kim Lilac	3
TT4	Tauton Yew	19
GRASSES	**COMMON NAME**	**QTY**
CK	Karl Foerster Grass	22
PERENNIALS	**COMMON NAME**	**QTY**
HO	Stella de Oro Daylily	6

Schmalz
Custom Landscaping
and Garden Center

LANDSCAPE ARCHITECTURE
DEVELOPMENT
CONSTRUCTION

AWARD WINNING DESIGN
AND INSTALLATION

W2484 CTY RD KK
APPLETON, WI 54915-9464
PHONE 920-733-8223
FAX 920-733-3262
WWW.SCHMALZLANDSCAPING.COM

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DO NOT SCALE

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NORTH

Habitat for Humanity
921 Midaway Road
Menasha, WI 54952

DATE: 08/15
REVISED:
PHONE NO.
EMAIL:
SCALE: 1" = 20'-0"
DRAWN BY: NLS JSJ
SHEET TITLE: Landscape Plan
SHEET NO. L-1
JOB NO.
FILE NO.

McGraw-Edison

DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction
Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics
Choice of 16 patented, high-efficiency AccuLED Optics. The optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 6000K CCT and 3000K CCT. For the ultimate level of spill light control, an optional house side shield accessory can be field or factory installed. The house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

Electrical
LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

Mounting
Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during assembly. Designed for pole or wall mounting. When mounting two or more luminaires at 90° or 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table on page 3. Round pole top adapter included. For wall mounting, specify wall mount bracket option. 3G vibration rated.

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

Warranty
Five-year warranty.

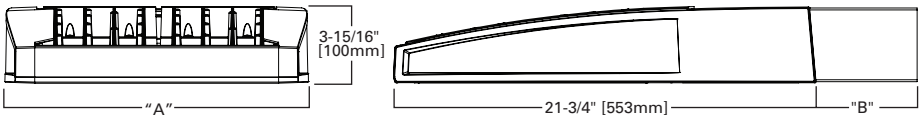
GLEON
GALLEON LED

1-10 Light Squares
Solid State LED

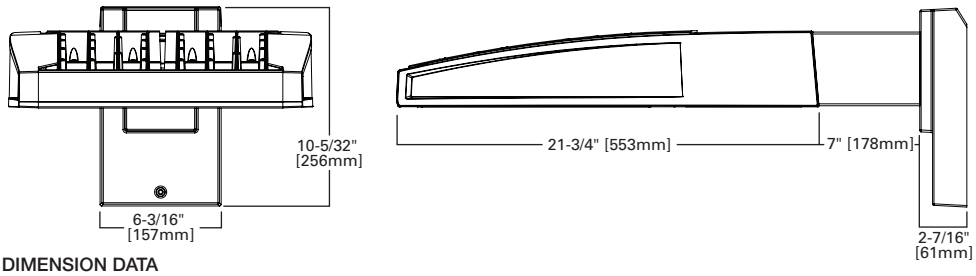
AREA/SITE LUMINAIRE

DIMENSIONS

POLE MOUNT



WALL MOUNT



DIMENSION DATA

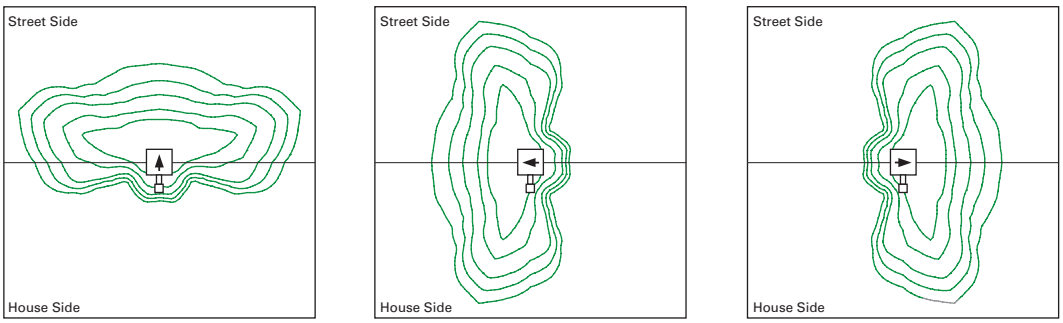
Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length [1]	Weight with Arm (lbs.)	EPA with Arm [2] (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: 1 Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. **2** EPA calculated with optional arm length.

CERTIFICATION DATA
UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
IP66 Rated
DesignLights Consortium® Qualified*

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

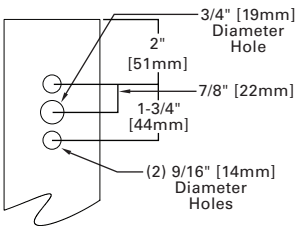
OPTIC ORIENTATION



Standard | **Optics Rotated Left @ 90°** [L90] | **Optics Rotated Right @ 90°** [R90]

DRILLING PATTERN

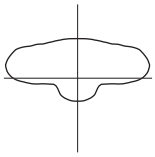
TYPE "N"



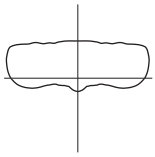
OPTICAL DISTRIBUTIONS

Asymmetric Area Distributions

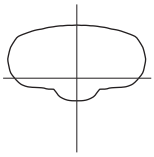
T2 (Type II)



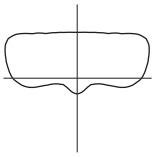
SL2 (Type II with Spill Control)



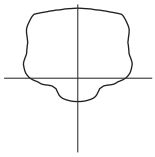
T3 (Type III)



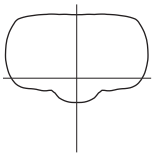
SL3 (Type III with Spill Control)



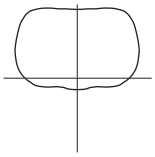
T4FT (Type IV Forward Throw)



T4W (Type IV Wide)

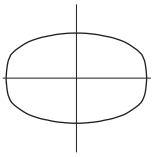


SL4 (Type IV with Spill Control)

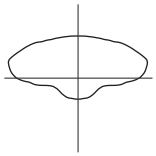


Asymmetric Roadway Distributions

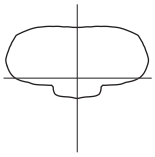
RW (Rectangular Wide Type I)



T2R (Type II Roadway)

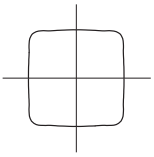


T3R (Type III Roadway)

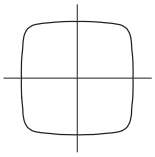


Symmertric Distributions

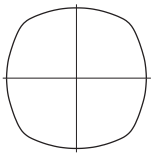
5NQ (Type V Square Narrow)



5MQ (Type V Square Medium)

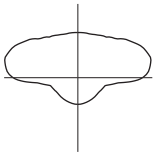


5WQ (Type V Square Wide)

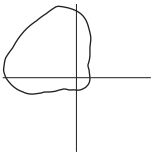


Specialized Distributions

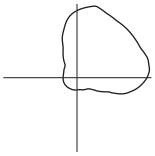
AFL (Automotive Frontline)



SLL (90° Spill Light Eliminator Left)



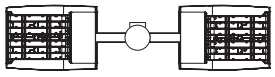
SLR (90° Spill Light Eliminator Right)



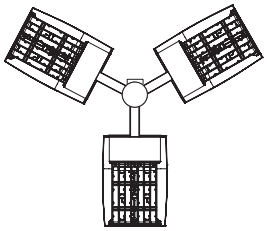
ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AE-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AE-10	16" Extended Arm (Required)	16" Extended Arm (Required)

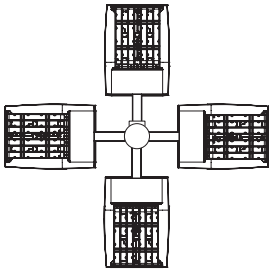
2 @ 180°



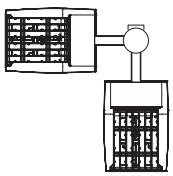
Triple[1]



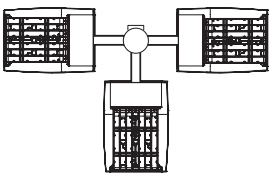
4 @ 90°



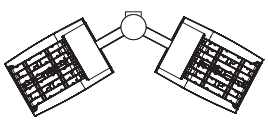
2 @ 90°



Triple[2]



2 @ 120°



NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. **2** Round poles are 3 @ 90°.

Powering Business Worldwide

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

Specifications and dimensions subject to change without notice.

NOMINAL POWER AND LUMENS (1A)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Drive Current		1A	1A	1A	1A	1A	1A	1A	1A	1A	1A
Nominal Power (Watts)		56	107	157	213	264	315	370	421	475	528
Input Current @ 120V (A)		0.47	0.90	1.31	1.79	2.21	2.64	3.09	3.51	3.96	4.41
Input Current @ 208V (A)		0.28	0.51	0.74	1.02	1.25	1.48	1.76	1.99	2.22	2.50
Input Current @ 240V (A)		0.25	0.45	0.65	0.90	1.10	1.30	1.55	1.75	1.95	2.20
Input Current @ 277V (A)		0.23	0.41	0.59	0.82	1.00	1.18	1.41	1.59	1.77	2.00
Optics											
T2	Lumens	5,272	10,303	15,373	20,313	25,168	30,118	35,618	40,357	45,018	49,842
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T2R	Lumens	5,597	10,938	16,321	21,565	26,719	31,974	37,813	42,844	47,792	52,914
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5
T3	Lumens	5,374	10,501	15,669	20,704	25,652	30,697	36,303	41,134	45,884	50,802
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3R	Lumens	5,493	10,735	16,017	21,164	26,222	31,379	37,110	42,048	46,904	51,930
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	Lumens	5,405	10,562	15,760	20,824	25,801	30,875	36,514	41,372	46,150	51,096
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	5,335	10,426	15,556	20,555	25,468	30,476	36,042	40,838	45,554	50,436
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	Lumens	5,263	10,285	15,347	20,278	25,124	30,066	35,556	40,288	44,940	49,756
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL3	Lumens	5,373	10,500	15,667	20,701	25,649	30,693	36,298	41,128	45,878	50,794
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	Lumens	5,105	9,976	14,886	19,669	24,370	29,163	34,488	39,078	43,591	48,262
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	Lumens	5,542	10,830	16,160	21,352	26,455	31,658	37,439	42,421	47,320	52,392
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
5MQ	Lumens	5,644	11,029	16,457	21,745	26,942	32,241	38,128	43,202	48,191	53,356
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
5WQ	Lumens	5,659	11,059	16,501	21,803	27,014	32,327	38,230	43,317	48,320	53,498
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	Lumens	4,722	9,227	13,767	18,191	22,539	26,971	31,897	36,141	40,315	44,635
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	Lumens	5,492	10,732	16,014	21,159	26,216	31,372	37,101	42,038	46,893	51,918
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
AFL	Lumens	5,512	10,771	16,072	21,236	26,311	31,486	37,236	42,191	47,063	52,107
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4

* Nominal data for 4000K CCT.

LUMEN MULTIPLIER

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

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.

NOMINAL POWER AND LUMENS (700MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Drive Current		700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA
Nominal Power (Watts)		38	72	105	138	176	210	243	276	314	348
Input Current @ 120V (A)		0.32	0.59	0.86	1.14	1.45	1.72	2	2.28	2.58	2.86
Input Current @ 208V (A)		0.21	0.36	0.51	0.67	0.87	1.02	1.18	1.34	1.53	1.69
Input Current @ 240V (A)		0.19	0.32	0.45	0.59	0.77	0.90	1.04	1.18	1.35	1.49
Input Current @ 277V (A)		0.20	0.29	0.40	0.51	0.69	0.80	0.91	1.02	1.20	1.31
Optics											
T2	Lumens	3,854	7,531	11,237	14,847	18,395	22,013	26,033	29,497	32,904	36,430
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T2R	Lumens	4,091	7,995	11,929	15,762	19,529	23,370	27,638	31,316	34,932	38,676
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3	Lumens	3,928	7,676	11,453	15,133	18,750	22,437	26,534	30,065	33,537	37,132
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3R	Lumens	4,015	7,846	11,707	15,469	19,166	22,936	27,124	30,733	34,283	37,957
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T4FT	Lumens	3,951	7,720	11,519	15,221	18,858	22,567	26,688	30,240	33,732	37,347
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	3,900	7,620	11,370	15,024	18,615	22,276	26,343	29,849	33,296	36,864
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL2	Lumens	3,847	7,518	11,217	14,821	18,364	21,975	25,988	29,447	32,847	36,368
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL3	Lumens	3,927	7,675	11,451	15,131	18,747	22,434	26,531	30,061	33,533	37,126
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
SL4	Lumens	3,731	7,292	10,880	14,376	17,812	21,315	25,208	28,562	31,861	35,275
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5
5NQ	Lumens	4,051	7,916	11,811	15,606	19,336	23,139	27,365	31,006	34,587	38,294
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
5MQ	Lumens	4,125	8,062	12,029	15,894	19,692	23,565	27,869	31,577	35,224	38,999
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
5WQ	Lumens	4,136	8,083	12,061	15,936	19,745	23,628	27,943	31,661	35,318	39,103
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	3,451	6,744	10,063	13,296	16,474	19,714	23,314	26,416	29,467	32,625
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
RW	Lumens	4,014	7,844	11,704	15,465	19,162	22,930	27,118	30,726	34,274	37,948
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
AFL	Lumens	4,029	7,873	11,747	15,522	19,231	23,014	27,216	30,838	34,399	38,086
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

* Nominal data for 4000K CCT.

LUMEN MULTIPLIER

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

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.

NOMINAL POWER AND LUMENS (530MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Drive Current		530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA
Nominal Power (Watts)		30	54	80	105	130	159	184	209	234	259
Input Current @ 120V (A)		0.25	0.45	0.66	0.86	1.07	1.32	1.52	1.72	1.93	2.14
Input Current @ 208V (A)		0.17	0.28	0.39	0.51	0.63	0.78	0.9	1.02	1.14	1.26
Input Current @ 240V (A)		0.17	0.25	0.35	0.45	0.55	0.70	0.80	0.90	1.00	1.10
Input Current @ 277V (A)		0.19	0.24	0.32	0.40	0.49	0.64	0.72	0.80	0.89	0.98
Optics											
T2	Lumens	3,079	6,017	8,978	11,862	14,697	17,588	20,800	23,567	26,289	29,106
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4
T2R	Lumens	3,269	6,388	9,531	12,593	15,603	18,672	22,082	25,020	27,909	30,900
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4
T3	Lumens	3,138	6,133	9,150	12,091	14,980	17,926	21,200	24,021	26,795	29,667
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3R	Lumens	3,208	6,269	9,354	12,359	15,313	18,325	21,671	24,555	27,390	30,326
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T4FT	Lumens	3,156	6,168	9,203	12,161	15,067	18,030	21,323	24,160	26,950	29,839
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T4W	Lumens	3,116	6,088	9,084	12,004	14,872	17,797	21,047	23,848	26,602	29,453
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL2	Lumens	3,074	6,006	8,962	11,842	14,672	17,558	20,764	23,527	26,244	29,056
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL3	Lumens	3,138	6,132	9,149	12,089	14,978	17,924	21,197	24,018	26,791	29,662
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL4	Lumens	2,981	5,826	8,693	11,486	14,231	17,030	20,140	22,820	25,456	28,184
	BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5
5NQ	Lumens	3,236	6,324	9,437	12,469	15,449	18,487	21,863	24,773	27,634	30,595
	BUG Rating	B1-U0-G0	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2
5MQ	Lumens	3,296	6,441	9,610	12,698	15,733	18,828	22,266	25,229	28,142	31,158
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
5WQ	Lumens	3,305	6,458	9,636	12,732	15,775	18,878	22,325	25,296	28,217	31,241
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	2,757	5,388	8,040	10,623	13,162	15,751	18,627	21,105	23,543	26,066
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4
RW	Lumens	3,207	6,267	9,351	12,356	15,309	18,320	21,666	24,549	27,384	30,319
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3
AFL	Lumens	3,219	6,290	9,385	12,401	15,365	18,387	21,745	24,638	27,484	30,429
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3

* Nominal data for 4000K CCT.

LUMEN MULTIPLIER

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

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.

ORDERING INFORMATION

Sample Number: GLEON-AE-04-LED-E1-T3-GM-700

Product Family [1]	Light Engine	Number of Light Squares [2]	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON=Galleon	**AE**=1A Drive Current	**01**=1 **02**=2 **03**=3 **04**=4 **05**=5 **06**=6 **07**=7 **08**=8 **09**=9 **10**=10	**LED**=Solid State Light Emitting Diodes	**E1**=120-277V **347**=347V [3] **480**=480V [3, 4]	**T2**=Type II **T2R**=Type II Roadway **T3**=Type III **T3R**=Type III Roadway **T4FT**=Type IV Forward Throw **T4W**=Type IV Wide **5NQ**=Type V Narrow **5MQ**=Type V Square Medium **5WQ**=Type V Square Wide **SL2**=Type II w/Spill Control **SL3**=Type III w/Spill Control **SL4**=Type IV w/Spill Control **SLL**=90° Spill Light Eliminator Left **SLR**=90° Spill Light Eliminator Right **RW**=Rectangular Wide Type I **AFL**=Automotive Frontline	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White	**[Blank]**=Arm for Round or Square Pole **EA**=Extended Arm [5] **MA**=Mast Arm Adapter [6] **WM**=Wall Mount

Options (Add as Suffix)

2L=Two Circuits [7, 8]
7030=70 CRI 3000K [9]
8030=80 CRI 3000K [10]
7050=70 CRI 5000K [10]
7060=70 CRI 6000K [9]
530=Drive Current Factory Set to 530mA [11]
700=Drive Current Factory Set to 700mA [11]
F=Single Fuse (120, 277 or 347V. Must Specify Voltage)
FF=Double Fuse (208, 240 or 480V. Must Specify Voltage)
P=Button Type Photocontrol (120, 208, 240 or 277V)
PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle
R=NEMA Twistlock Photocontrol Receptacle
HA=50°C High Ambient [8, 12]
MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height [13, 14, 15, 16, 17]
MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height [13, 14, 15, 16, 17]
MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height [13, 14, 15, 16, 19]
MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range) [13, 14, 15, 16, 20]
MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height [13, 14, 15, 16, 17, 21]
MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height [13, 14, 15, 16, 18, 21]
MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height [13, 14, 15, 16, 19, 21]
MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range) [13, 14, 15, 16, 20, 21]
MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height [13, 14, 15, 16, 17]
MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height [13, 14, 15, 16, 18]
MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height [13, 14, 15, 16, 19]
MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range) [13, 14, 15, 16, 20]
DIMRF-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height [22]
DIMRF-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height [22]
L90=Optics Rotated 90° Left
R90=Optics Rotated 90° Right
MT=Factory Installed Mesh Top
TH=Tool-less Door Hardware
LCF=Light Square Trim Plate Painted to Match Housing [23]
HSS=Factory Installed House Side Shield [24]
CE=CE Marking [25]

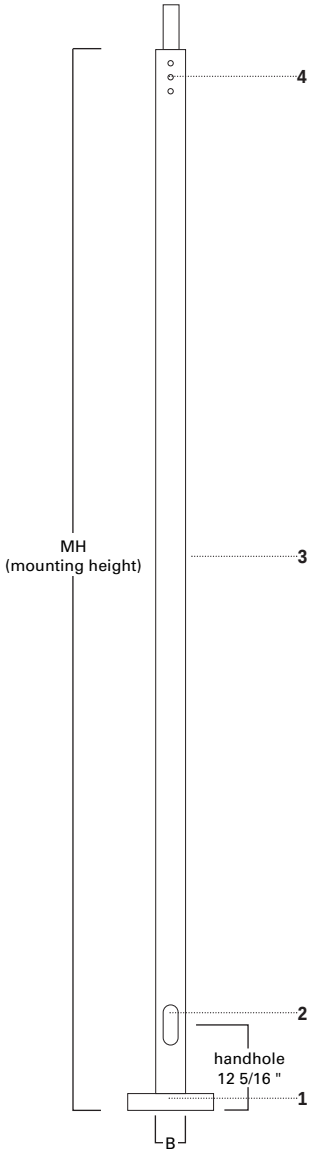
Accessories (Order Separately)

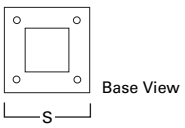
OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V
OA/RA1027=NEMA Photocontrol - 480V
OA/RA1201=NEMA Photocontrol - 347V
OA/RA1013=Photocontrol Shorting Cap
OA/RA1014=120V Photocontrol
MA1252=10kV Surge Module Replacement
MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon
MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon
MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon
MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon
MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon
MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon
MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon
MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon
MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon
MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon
FSIR-100=Wireless Configuration Tool for Occupancy Sensor [26]
GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares
GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares
GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares
GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares
LS/HSS=Field Installed House Side Shield [24, 27]

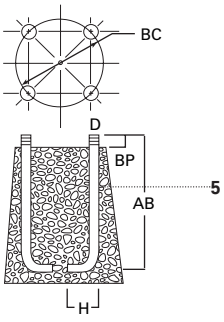
NOTES:
1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
2. Standard 4000K CCT and minimum 70 CRI.
3. Requires the use of a step down transformer when combined with MS/DIM, MS/X or DIMRF.
4. Only for use with 480V Wye systems. 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).
5. May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
6. Factory installed.
7. 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AE-02 through AE-04 requires a larger housing, normally used for AE-05 or AE-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
8. Not available with LumaWatt wireless sensors.
9. Extended lead times apply. Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
10. Extended lead times apply. For 8030, factor 7030 IES files x .92 (8% lumen loss). For 7050, use 7060 IES files.
11. 1 Amp standard. Use dedicated IES files for 530mA and 700mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
12. 50°C lumen maintenance data applies to 530mA and 700mA drive currents.
13. Consult factory for more information.
14. Utilizes internal step down transformer when 347V or 480V is selected.
15. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
16. Not available with HA option.
17. Approximately 22' detection diameter at 8' mounting height.
18. Approximately 40' detection diameter at 20' mounting height.
19. Approximately 60' detection diameter at 40' mounting height.
20. Approximately 100' detection diameter at 40' mounting height.
21. Replace X with number of Light Squares operating in low output mode.
22. LumaWatt wireless sensors are factory installed only requiring network components RF-EM-1, RF-GW-1 and RF-ROUT-1 in appropriate quantities. See www.eaton.com/lighting for LumaWatt application information.
23. Not available with house side shield (HSS).
24. Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
25. CE is not available with the DIMRF, MS, MS/X, MS/DIM, F, FF, P, R or PER7 options.
26. This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information
27. One required for each Light Square.

SSS SQUARE STRAIGHT STEEL

10'—39' MOUNTING HEIGHT







SPECIFICATION FEATURES

1 ··· ASTM Grade steel base plate with ASTM A366 base cover.

2 ··· Hand hole assembly 3" x 5" on 5" and 6" pole; and 2" x 4" on 4" pole.

3 ··· ASTM A500 grade "B" steel shaft. Shot blasted and painted with polyester powder coat.

4 ··· Drilled or Tenon (specify).

5 ··· Anchor bolt per ASTM A576 with (2) nuts, (2) flat washer, and (1) lock washer. Nuts, washers and threaded portion of bolt are hot dip galvanized. 3" hook for 3/4" bolt. 4" hook for 1" bolt.

FOUR BOLT ANCHORAGE [See ordering information]

BC=Bolt Circle
BP=Bolt Projection
AB=Bolt Dimensions
D=Bolt Diameter
H=Bolt Dimensions

FINISH COLORS [See ordering information]

F=Dark Bronze
G=Galvanized
V=Grey
W=White
Y=Black

WARNING: THE USE OF UNAUTHORIZED ACCESSORIES SUCH AS BANNERS, SIGNS OR PENNANTS FOR WHICH THE POLE WAS NOT DESIGNED FOR VOIDS THE COOPER LIGHTING WARRANTY AND MAY RESULT IN POLE FAILURE CAUSING SERIOUS INJURY OR PROPERTY DAMAGE. COOPER LIGHTING'S POLE WARRANTY IS ALSO VOIDED IF LUMINAIRE IS NOT INSTALLED AT TIME OF POLE INSTALLATION.

ORDERING INFORMATION

SAMPLE NUMBER: SSS5A20SFM1XG

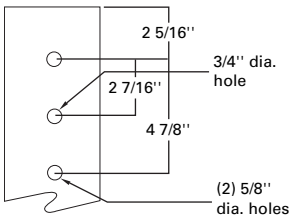
Square	Straight	Steel	Shaft [3] Size	Wall Thickness	Mounting Height (ft.)	Base Type	Finish	Fixture Mounting & Type	No. & Location of Arms	Arm Lengths	Accessories (Ground Lug)
S	**S**	**S**	**5**	**A**	**20**	**S**	**F**	**M**	**1**	**X**	**G**

Mtg. Height	Catalog [1, 2] Number	Wall Thickness	Base Square (In.)	Bolt Circle Dia. (In.)	Bolt Proj. (In.)	Shaft Size (In.)	Anchor Bolt Dia. &. Length (In.)	Net. Wt. (Lbs.)	EPA (Sq. Ft.) [4] At Pole Top				EPA (Sq. Ft.) [4] 2' Above Pole Top				Load—Include Bracket (Lbs.) Max. Fixture
MH			**S**	**BC**	**BP**	**B**	**AB**		**70**	**80**	**90**	**100**	**70**	**80**	**90**	**100**	
10	SSS4A10SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	96	39.8	29.9	23.2	18.4	33.0	24.8	19.3	15.3	150
15	SSS4A15SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	133	19.6	14.4	10.8	8.2	17.2	12.7	9.5	7.3	150
20	SSS4A20SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	152	12.9	9.1	6.5	4.6	11.7	8.2	5.9	4.2	200
25	SSS4A25SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	208	8.7	5.6	3.6	2.1	8.0	5.2	3.3	2.0	200
20	SSS5A20SF	.120	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	202	21.9	15.7	11.6	8.5	19.9	14.3	10.5	7.7	200
25	SSS5A25SF	.120	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	248	15.5	10.5	7.2	4.8	14.3	9.8	6.6	4.4	200
30	SSS5A30SF	.120	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	293	8.2	4.6	2.1	--	7.7	4.3	2.0	--	300
35	SSS5M35SF	.188	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	480	11.8	7.1	3.8	1.5	11.1	6.6	3.6	1.4	300
25	SSS6A25SF	.120	12 1/2	12.5	5	6	1 x 36 x 4	295	24.1	16.8	12.0	8.5	22.2	15.6	11.1	7.8	200
30	SSS6A30SF	.120	12 1/2	12.5	5	6	1 x 36 x 4	347	14.0	8.7	5.0	2.5	13.1	8.2	4.7	2.3	300
30	SSS6M30SF	.188	12 1/2	12.5	5	6	1 x 36 x 4	505	26.4	18.1	12.5	8.4	24.7	16.9	11.6	7.9	300
35	SSS6M35SF	.188	12 1/2	12.5	5	6	1 x 36 x 4	584	19.7	12.7	7.9	4.4	18.6	12.0	7.5	4.2	300
35	SSS6X35SF	.250	12 1/2	12.5	5	6	1 x 36 x 4	696	28.9	19.7	13.4	8.9	8.7	18.6	12.7	8.4	300
39	SSS6M39SF	.188	12 1/2	12.5	5	6	1 x 36 x 4	647	15.4	9.1	4.8	1.8	14.6	8.7	4.6	1.7	300
39	SSS6X39SF	.250	12 1/2	12.5	5	6	1 x 36 x 4	822	23.5	15.4	9.8	5.7	22.4	14.6	9.3	5.4	300

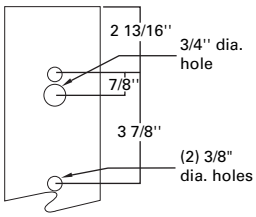
NOTES: 1 Catalog number includes pole with anchor bolts with double nuts (BEFORE INSTALLING ANCHOR BOLTS MAKE SURE PROPER ANCHOR BOLT TEMPLATE IS OBTAINED FROM COOPER LIGHTING).
2 Tenon size or machining for rectangular arms must be specified. Hand hole is located 180° from single arm.
3 Shaft size, base plate, anchor bolts and projections may vary slightly—all dimensions nominal.
4 EPA's based on shaft properties with wind normal to flat. EPA's calculated using base wind velocity as indicated plus 30% gust factor.

DRILLING PATTERN

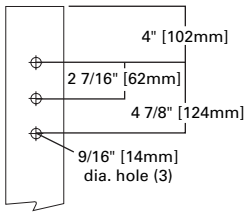
Type "M" [RCL, Landau, Galleria and Vision]



Type "E" [Concourse III]



Type "Z" [Credenza and Cirrus]



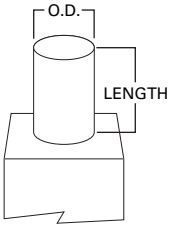
MACHINING FOR RECTANGULAR ARMS [Add as suffix]

Designation Letter & Number	Designation Letter & Number	Designation Letter & Number	Quantity & Location
M1	E1	Z1	Single
M2	E2	Z2	2 @ 180°
M3	E3	Z3	3 @ 120°
M4	E4	Z4	4 @ 90°
M5	E5	Z5	2 @ 90°
M6	E6	Z6	3 @ 90°
M7	E7	Z7	2 @ 120°

NOTES: Refer to Fixture Drilling Options on page 160.

MOUNTING OPTIONS [Add as suffix]

Fixed Tenon



Designation Number	O.D. (In.)	Length (In.)
1	2 3/8	3 1/2
2	2 3/8	4
3	3 1/2	5
9	3	4

ACCESSORIES

A=1/2" tapped hub [1]
B=3/4" tapped hub [1]
C=Convenience outlet [2]
G=Grounding lug (max. wire #8 AWG)
H=Additional hand hole and cover—
12" below pole top—90° from hand hole.

NOTES: 1 Location is 3' above base–90° from hand hole.
2 Outlet is located 4' above base and on same side of pole as hand hole, unless specified otherwise. Receptacle not included, provision only.

NOTE: Specifications and dimensions subject to change without notice.

2158
2166
2150
2159
1355
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2151
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1341
1334
2144
2150
2156
1335
1326
1318
1321
2143
2149
2155
2161
1311
1303
200'
2125
2133
2170
2134
2142
2150
2158
2141
2162
2149
7136
1217
2157
1209
2165
1224
2173
1220
2152
2171
2163
2146
1210
2159
W7145
1201
2155
2160
2164
1204
N
0
100
200 Feet
Legend
Future Construction
Proposed Extension
2015 Construction