THE CITY OF Fitchburg City of Fitchburg Planning/Zoning Department 5520 Lacy Road Fitchburg, WI 53711 (608-270-4200)	**ARCHITECTURAL & DESIGN REVIEW APPLICATION**

Applicant/Contact Person: Cinque Terre LLC., Bill LInton

Address: 2800 Woods Hollow Drive **Phone Number of Contact Person:** 608.278.7662

City, State, Zip Code: Fitchburg, WI 53711 **Email of Contact Person:** bill.linton@usonainstitute.org

Project Address: 2881 Woods Hollow Drive **Lot:** _____ **Subdivision:** _____

Project Type: _____ **Multi-Family** x **Commercial** _____ **Industrial** _____ **Other**

X **New** _____ **Addition**

Impervious Surface Ratio (ISR): 19% (City Standard: maximum 65% ISR)

All items listed below must be included with the application to be considered complete. If an item is not included with the application, the applicant must provide in writing the basis for not including it. Building and site plans submitted to the Fitchburg Plan Commission for architectural and design review shall contain the following information:

Site Data:

- ☐ 1. Lot or property dimensions.
- ☐ 2. Orientation (to north).
- ☐ 3. Adjacent highways, roads, drive, etc.
- ☐ 4. Existing natural features (rivers, ponds, wetlands).
- ☐ 5. Existing buildings and/or improvements.
- ☐ 6. Existing and proposed site drainage.
- ☐ 7. Utility plans, including main/lateral sizes and existing fire hydrants on site or within 300 feet of the site
- ☐ 8. ISR shall be indicated on all plans.
- ☐ 9. Stormwater management plans and details, including grading plan.
- ☐ 10. Lighting plan in footcandles and light fixture cut sheets.

Building:

- ☐ 1. Building size, configuration and orientation.
- ☐ 2. Distance from lot lines.
- ☐ 3. Distance from other buildings, improvements and natural features.
- ☐ 4. Location of well, septic tank, drainfield, etc. (if applicable)
- ☐ 5. Additional proposed additions or new structures, including trash/recycling enclosure(s).
- ☐ 6. Construction type (wood frame, structural steel, etc.).
- ☐ 7. Foundation type (full basement, slab on grade, etc.).
- ☐ 8. Number of levels.
- ☐ 9. Siding/exterior covering type, color, texture, etc.
- ☐ 10. Roof type (gable, hip, shed, flat, etc.) and pitch.
- ☐ 11. Roofing material type, color, texture, etc.
- ☐ 12. Exterior door and window location, size, type, etc.
- ☐ 13. Fire protection sprinklers or fire alarm systems.

Ingress, Egress, Parking:

- ☐ 1. Location of highway and road access points.
- ☐ 2. Location, size, configuration of drivers and walks.
- ☐ 3. Number, size, location of parking spaces.
- ☐ 4. Location of handicapped parking and accessible building entrances.
- ☐ 5. Bicycle rack(s).

Landscaping:

- ☐ 1. Location, species, size of existing trees, shrubs, and plantings.
- ☐ 2. Location, species, size of proposed plantings.
- ☐ 3. Location and size of all paved, seeded/sodded and gravelled areas.
- ☐ 4. Location of all retaining walls, fences, berms and other landscape features.

***It is highly recommended that an applicant hold at least one neighborhood meeting prior to submitting an ADR application to identify any concerns or issues of surrounding residents.**

The preceding information is considered to be the minimum information for submission, and the City may require additional information for its review. Any interpretations provided by city officials as the result of submitting the attached information are based on the submitted plans, and any plan changes, may affect the interpretations.

It is the responsibility of the owner/applicant to insure compliance with all local and state requirements. The below signed applicant acknowledges the above information and hereby submits the attached information for the City's Architectural and Design Review Process.

Signed: _____ **Date:** 6/21/21
Applicant or Authorized Agent

***** Application shall be accompanied by one (1) sets of full-size plans, two (2) sets no larger than 11"x17", and one (1) pdf document of the complete submittal to planning@fitchburgwi.gov. Applications are due at least 4 weeks prior to the desired Plan Commission Meeting. The time frame assumes a complete set of plans is provided, and if it is not provided the Plan Commission date will be adjusted.**

FOR CITY USE ONLY

Date Received: 6/22/21 **Plan Commission Date:** 7/20/21

Comments:

1 ADR-04 NORTH - MAIN BUILDING
SCALE: 1/8" = 1'-0"

2 ADR-04 EAST - MAIN BUILDING
SCALE: 1/8" = 1'-0"

R/S
RAMLOW/STEIN
ARCHITECTURE + INTERIORS

MATERIAL SYMBOLS

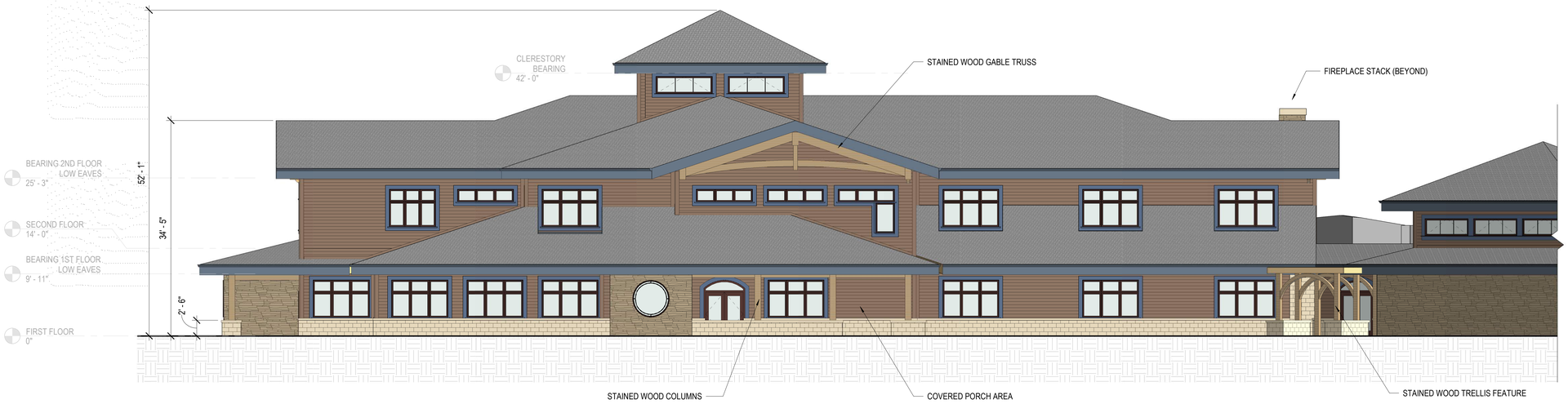
1. WOOD SIDING, STAINED, S-1
2. LIMESTONE VENEER
3. FIELD STONE VENEER
4. SLATE ROOF SHINGLES
5. WOOD TRIM-1
6. WOOD TRIM-2
7. LOUVER
8. GLASS
9. SPANDREL GLAZING

USONA INSTITUTE

ADR-04 EXTERIOR ELEVATIONS

06/22/2021

SCALE: 1/8" = 1'-0"



1 ADR-05 SOUTH MAIN BUILDING
SCALE: 1/8" = 1'-0"

2 ADR-05 WEST - MAIN BUILDING
SCALE: 1/8" = 1'-0"

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RAMLOW/STEIN
ARCHITECTURE + INTERIORS

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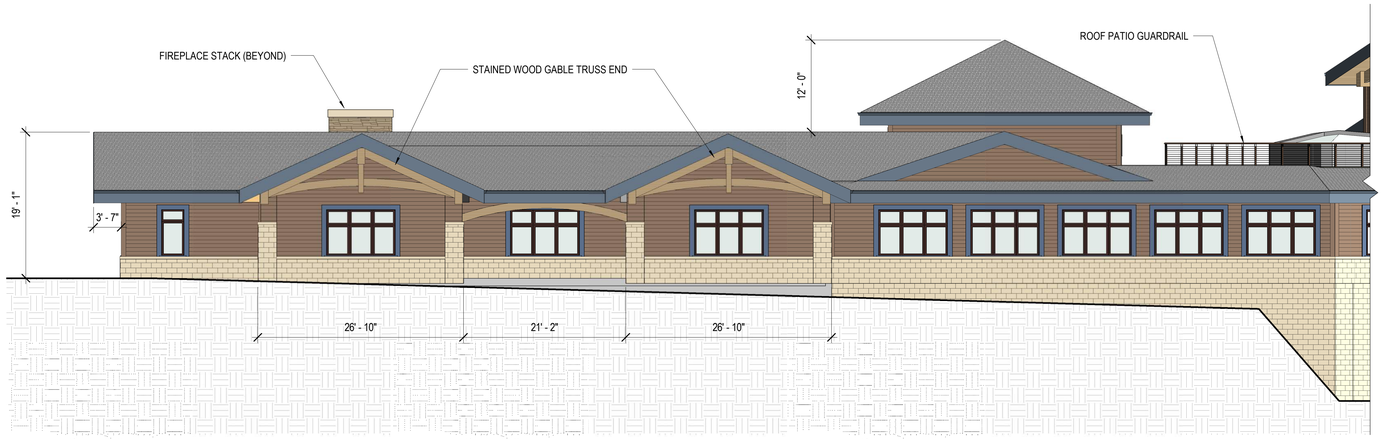
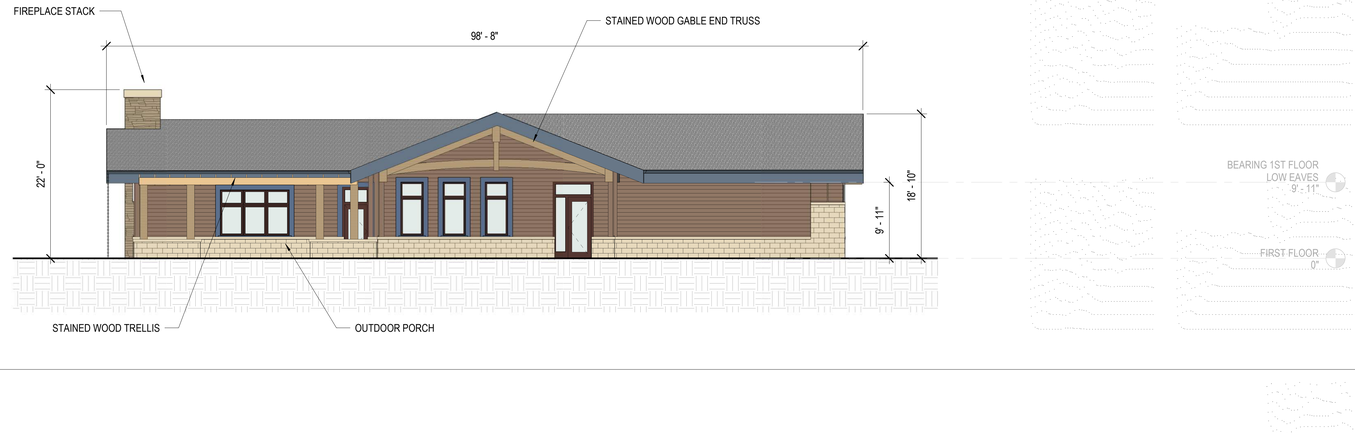
USONA INSTITUTE

ADR-05 EXTERIOR ELEVATIONS

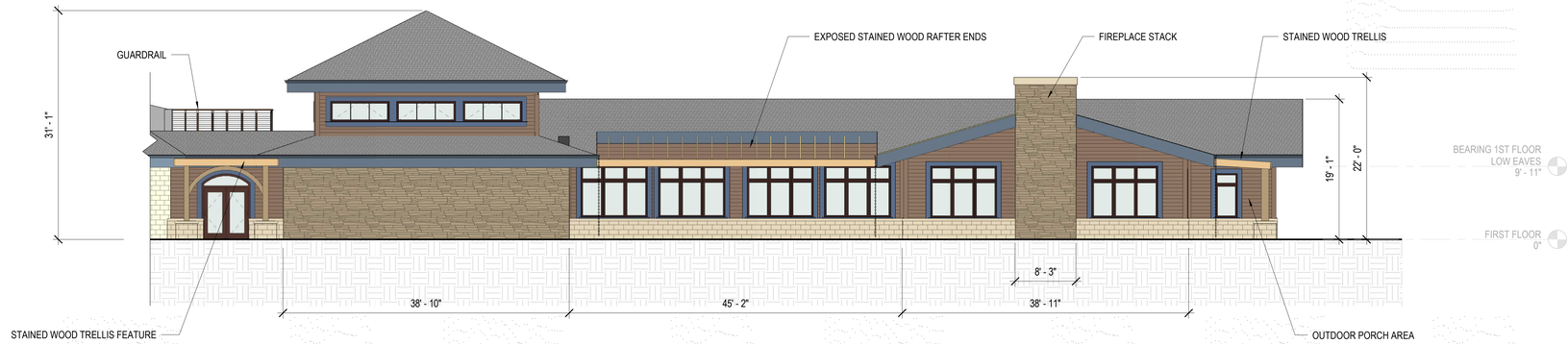
06/22/2021
SCALE: 1/8" = 1'-0"



1 ADR-06 NORTHEAST - THERAPY BUILDING
SCALE: 1/8" = 1'-0"



2 ADR-06 SOUTHEAST - THERAPY BUILDING
SCALE: 1/8" = 1'-0"



3 ADR-06 SOUTHWEST - THERAPY BUILDING
SCALE: 1/8" = 1'-0"

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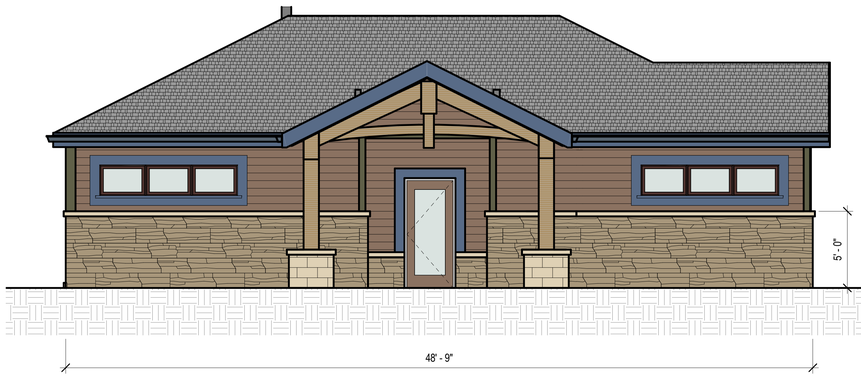
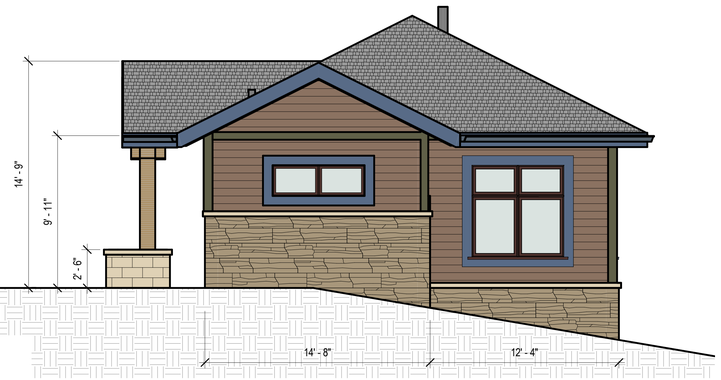
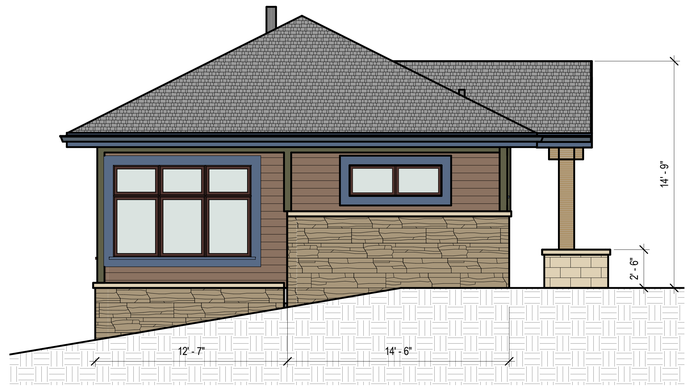


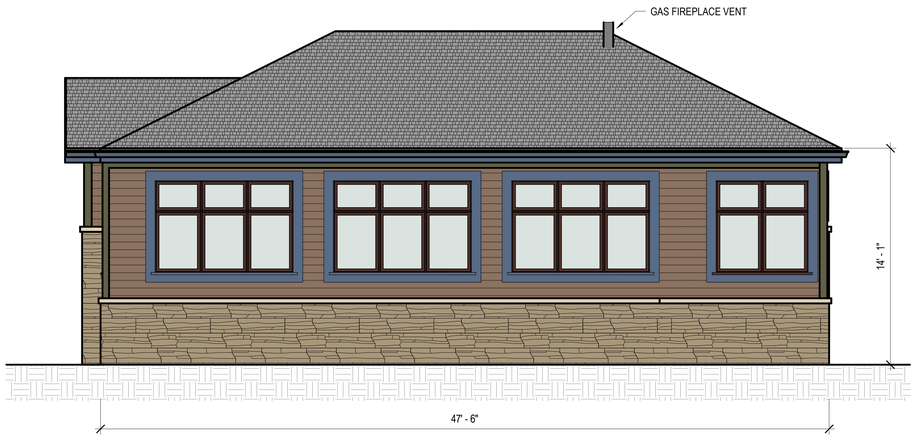
6 ADR01 ADR - NORTH ELEVATION
SCALE: 1/4" = 1'-0"



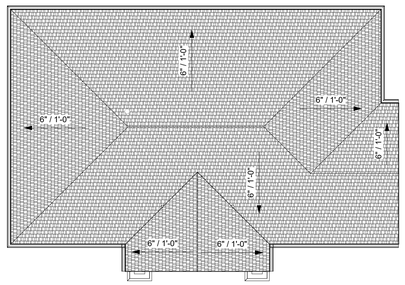
3 ADR01 ADR - EAST ELEVATION
SCALE: 1/4" = 1'-0"



2 ADR01 ADR - WEST ELEVATION
SCALE: 1/4" = 1'-0"



5 ADR01 ADR - SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



4 ADR01 ROOF - NEW
SCALE: 1/8" = 1'-0"

Department Legend

- BEDROOM
- SHARED
- SHARED OUTDOOR
- SERVICE / OTHER

1 ADR01 FIRST FLOOR - NEW
SCALE: 1/4" = 1'-0"

R/S
RAMLOW / STEIN
ARCHITECTURE + INTERIORS

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8. GLASS
9. SPANDREL GLAZING

USONA - RESIDENCES

ADR01 PLANS / ELEVATIONS
06/22/2021
SCALE: As indicated

R/S
RAMLOW/STEIN
ARCHITECTURE + INTERIORS

NORTH

USONA INSTITUTE

ADR-00 BASEMENT AREA PLAN

06/22/2021

SCALE: 3/32" = 1'-0"

RAMLOW/STEIN
ARCHITECTURE + INTERIORS

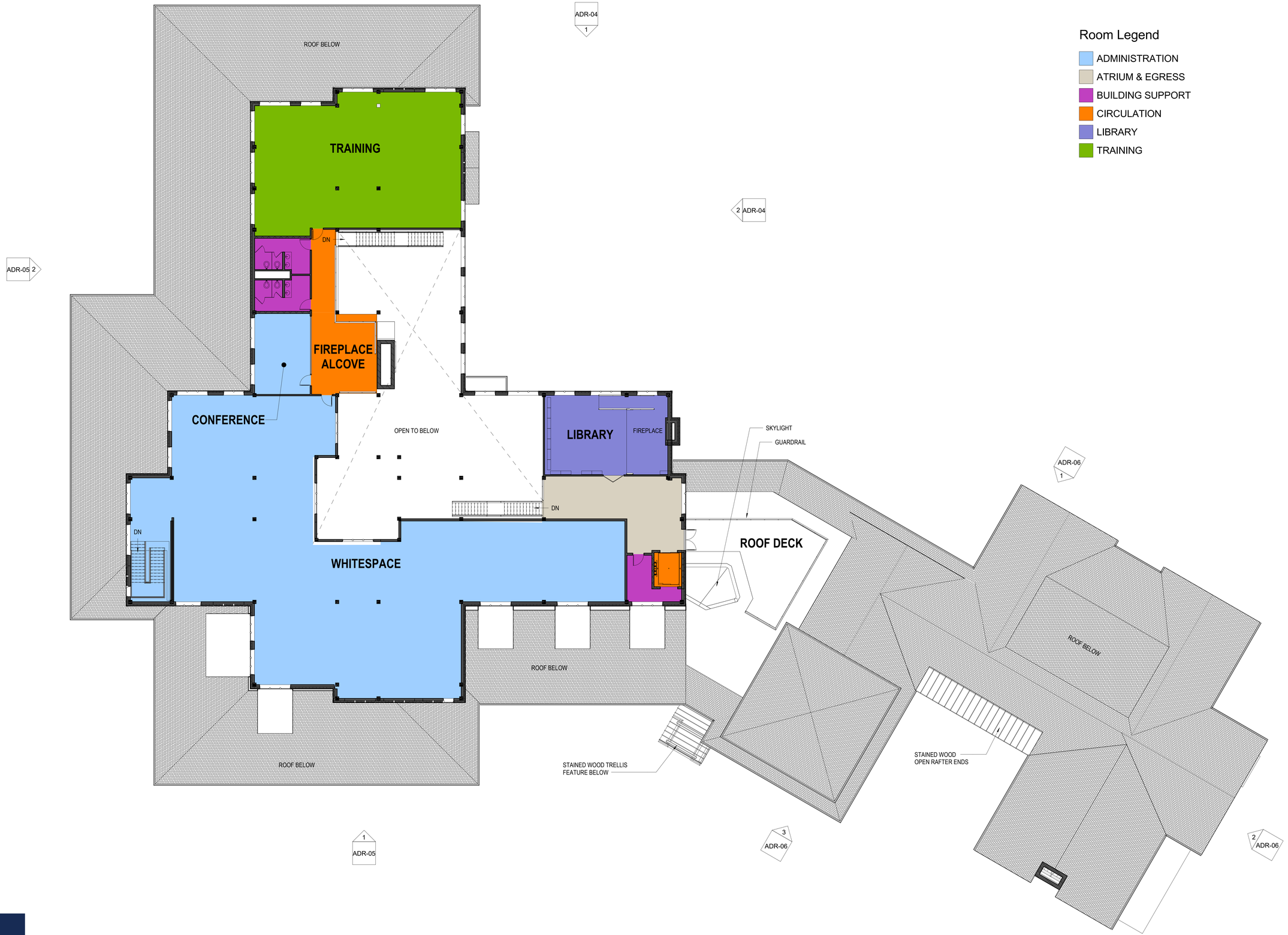
NORTH

USONA INSTITUTE

ADR-01 FIRST FLOOR AREA PLAN

06/22/2021

SCALE: 3/32" = 1'-0"



RAMLOW/STEIN
ARCHITECTURE + INTERIORS

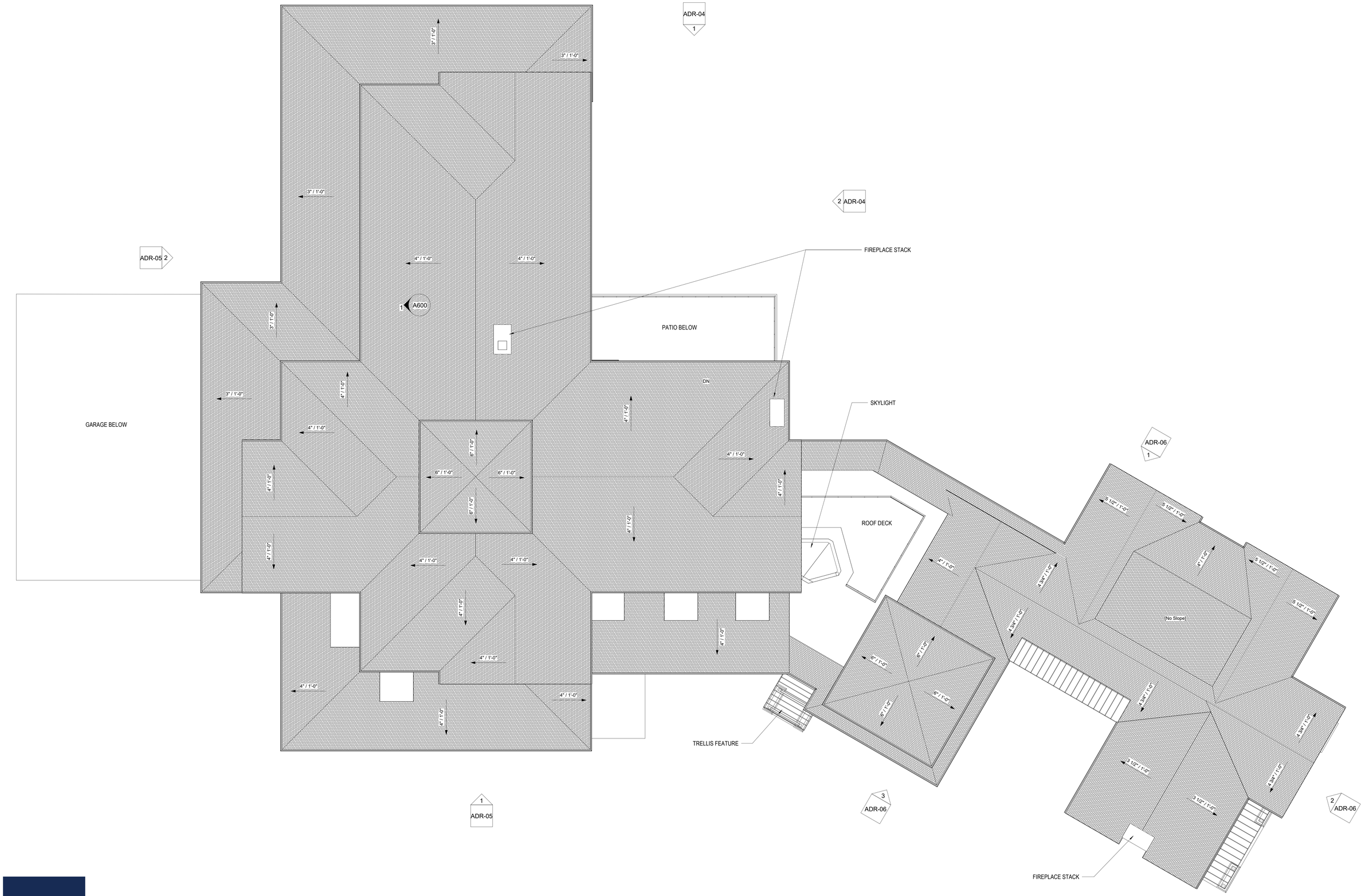
NORTH

USONA INSTITUTE

ADR-02 SECOND FLOOR AREA PLAN

06/22/2021

SCALE: 3/32" = 1'-0"


ADR-04
1
3" / 1'-0"
3" / 1'-0"
3" / 1'-0"
2 ADR-04
ADR-05 2
4" / 1'-0"
4" / 1'-0"
FIREPLACE STACK
1 A600
PATIO BELOW
3" / 1'-0"
DN
SKYLIGHT
3" / 1'-0"
4" / 1'-0"
4" / 1'-0"
GARAGE BELOW
4" / 1'-0"
6" / 1'-0"
6" / 1'-0"
6" / 1'-0"
4" / 1'-0"
4" / 1'-0"
4" / 1'-0"
ROOF DECK
4" / 1'-0"
4" / 1'-0"
4" / 1'-0"

STORM SEWER AND SANITARY SEWER ELEVATION TABLE

NUMBER	RIM/TC	ELEVATION		ELEVATION		ELEVATION		ELEVATION		DESCRIPTION	NOTES
1	942.47	NW	938.11	SE	938.09					3'X 2' STORM SEWER INLET	
2	942.45	NE	938.71							3'X 2' STORM SEWER INLET	
3	934.50	N	930.00	S	930.04					3'X 2' STORM SEWER INLET	
4	934.49	S	928.74	N	928.68					3'X 2' STORM SEWER INLET	
5	933.89	N	930.19							3.25' DIA. CATCH BASIN	
6	949.77	N	942.61	S	942.56					SANITARY SEWER MANOLE	NORTH END IS CAPPED
8	927.51	S	915.19	W	915.17					SANITARY SEWER MANOLE	
9	919.78	NW	909.65	SE	909.66	SW	909.66			SANITARY SEWER MANOLE	
10	914.94	N	904.54	SE	904.50	SW	904.53			SANITARY SEWER MANOLE	
11	913.58	W	901.69	S	901.67	NE	901.68			SANITARY SEWER MANOLE	
12	904.28	W	881.27							SANITARY SEWER MANOLE	
13	942.49	N	937.82	SW	937.83					STORM SEWER MANHOLE	
14	934.63	W	928.89	E	929.03	S	929.68			STORM SEWER MANHOLE	
15	924.62	E	917.14	NW	917.12	S	917.34			STORM SEWER MANHOLE	
16	924.63	NE	919.72							3'X 2' STORM SEWER INLET	
17	924.59	S	917.80	N	917.69					3'X 2' STORM SEWER INLET	
18	916.95	NE	913.43							3.25' DIA. CATCH BASIN	
19	917.90	N	912.10	SE	912.11	SW	912.16			STORM SEWER MANHOLE	
20	914.65	N	909.03							3'X 2' STORM SEWER INLET	
21	914.57	NW	909.02	NE	908.64	S	908.90			3'X 2' STORM SEWER INLET	
22	914.75	E	909.03	S	909.08					3'X 2' STORM SEWER INLET	
23	914.82	N	909.25							3'X 2' STORM SEWER INLET	
24	914.76	N	907.60	W	907.82	SE	908.01			STORM SEWER MANHOLE	
25	913.04	W	905.82	NE	905.46	S	905.44			STORM SEWER MANHOLE	
26	910.71	W	906.57							3'X 2' STORM SEWER INLET	
27	910.63	E	906.27	W	906.18					3'X 2' STORM SEWER INLET	
28	908.94	BOT	906.36							3.25' DIA. CATCH BASIN	
29	911.50	NE	900.49	SW	900.41					STORM SEWER MANHOLE	
30	899.77	BOT	895.26							3'X 2' STORM SEWER INLET	
31	897.75	NW	884.90	S	883.95	E	884.85	BOT	883.31	STORM SEWER MANHOLE	NORTHWEST AND EAST INVERTS ARE TOP OF PIPE
32		NW	922.58							END OF CULVERT PIPE	
33		SE	919.67							END OF CULVERT PIPE	
34	904.67	BOT	901.46							CATCH BASIN.	TOP OF DOME RIM
35		SW	896.88							ENDWALL W/ GRATE	
36	976.33	S	972.68	E	927.63					CATCH BASIN.	
37	976.44	W	971.79	NE	971.74					CATCH BASIN.	
38		SW	964.68							END OF CULVERT PIPE	

SCALE IN FEET
0 30 60 120

LEGEND

- EX ASPHALT
- EX CONCRETE
- PROPERTY LINE
- EX WOOD FENCE
- OHU — OVERHEAD UTILITY WIRE
- G — BURIED GAS LINE
- W — WATER MAIN
- SAN — SANITARY SEWER
- ST — STORM SEWER
- UT — BURIED TELEPHONE
- UE — BURIED ELECTRIC
- FO — BURIED FIBER OPTIC
- WATER VALVE
- GAS VALVE
- GAS METER
- DECIDUOUS TREE (DBH IN INCHES)
- CONIFEROUS TREE (DBH IN INCHES)
- AC — AIR CONDITIONER
- TV PEDESTAL
- ELECTRIC PEDESTAL
- UTILITY POLE
- LIGHT POLE
- GROUND LIGHT
- TELEPHONE PEDESTAL
- FIRE HYDRANT
- SIGN
- GUY WIRE
- SANITARY LATERAL POST
- ROUND CATCH BASIN
- BIT. — BITUMINOUS PAVEMENT
- CNC. — CONCRETE PAVEMENT
- ( ) — INDICATES RECORDED AS

GENERAL NOTES

1. EXISTING CONDITIONS SHOWN ARE FROM A SURVEY CONDUCTED BY BURSE, DATED 6/18/2020. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS.
2. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. IF ADDITIONAL UTILITIES ARE KNOW TO EXIST IN THE PROPERTY, THE OWNER WILL PROVIDE EXISTING PLANS OF OTHER UTILITIES SERVING THE SITE AND THE BUILDING THAT OTHERWISE CANNOT BE LOCATED BY A VISUAL INSPECTION OF THE PROPERTY OR OF WHICH THE SURVEYOR WOULD HAVE NO KNOWLEDGE.

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

CALL DIGGERS HOTLINE
1-800-242-8511 TOLL FREE

WISCONSIN STATE STATUTE 182.0175(1974) REQUIRES MINIMUM THREE (3) WORK DAYS NOTICE BEFORE YOU EXCAVATE

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

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ARCHITECTURE + INTERIORS

322 East Michigan Street
Milwaukee, WI 53202

414.271.8899
office@ramlowstein.com
www.ramlowstein.com

KRAEMER BROTHERS

Affiliated Engineers

ONEIDA Total Integrated Enterprises

Emmons & Olivier Resources, Inc.
119 SOUTH MAIN ST
COTTAGE GROVE, WI 53527
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www.eorinc.com

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REVISIONS

No.	Date:	Description:

Usona Institute

PROJECT
USONA INSTITUTE
USONA INSTITUTE C/O CINQUE TERRE, LLC

SHEET
EXISTING CONDITIONS

DATE
06/22/2021

PROJECT NO.
19-128

SHEET NO.
C100

22 June 2021

P:\01514-0001 USONA\DRAWINGS\SHEETS\C100 EXISTING CONDITIONS.DWG

01 C110 TREE PROTECTION

SCALE IN FEET
0 25 50 100

LEGEND

- LIMITS OF DISTURBANCE
- 818 EX MINOR CONTOURS
- 820 EX MAJOR CONTOURS (5-FOOT)
- REMOVE TREE
- REMOVE ASPHALT PAVEMENT
- REMOVE CONCRETE
- REMOVE STRUCTURE
- REMOVE EX SIGN
- REMOVE PIPE
- EX ASPHALT
- EX CONCRETE

GENERAL NOTES

1. REFER TO EXISTING CONDITIONS SURVEY FOR EXISTING CONDITIONS NOTES AND LEGEND.
2. ALL MUNICIPAL UTILITY CONNECTIONS, WORK IN ROW, PUBLIC OUTLOTS AND PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH THE CITY OF FITCHBURG REQUIREMENTS.
3. BUILDING FOOTPRINT ONLY. REFER TO FOUNDATION PLAN FOR DIMENSIONS.
4. IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS WITHIN THE PLAN BECOME APPARENT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

DEMOLITION NOTES

1. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL PROVISIONS SHALL BE INSTALLED AS SHOWN ON SHEET C130.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSING IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES, OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING DRIVES, DRAINAGE, STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
3. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY.
4. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATION.
5. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE, AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE.
6. ANY SANITARY SEWER, SANITARY SEWER SERVICES, WATER MAIN, WATER SERVICES, STORM SEWER, OR OTHER UTILITIES, WHICH ARE DAMAGED BY THE CONTRACTORS, SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR SHALL LIMIT SAWCUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS. IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO ANY PUBLIC SIDEWALKS, CURBS, DRIVEWAYS, ETC.
9. CLEARED TREES SHALL BE STOCKPILED OR REMOVED AS DIRECTED BY OWNER.
10. BOULDERS SHALL BE STOCKPILED OR REMOVED AS DIRECTED BY OWNER.
11. NO TREES SHALL BE REMOVED WITHOUT PERMISSION FROM THE OWNER.

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1-800-242-8511 TOLL FREE
WISCONSIN STATE STATUTE 182.0175(2)(b) REQUIRES MINIMUM THREE (3) WORK DAYS NOTICE BEFORE YOU EXCAVATE

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KRAEMER BROTHERS

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water ecology community
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www.eorinc.com

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REVISIONS

No.	Date:	Description:

Usona Institute

PROJECT
USONA INSTITUTE
USONA INSTITUTE C/O CINQUE TERRE, LLC

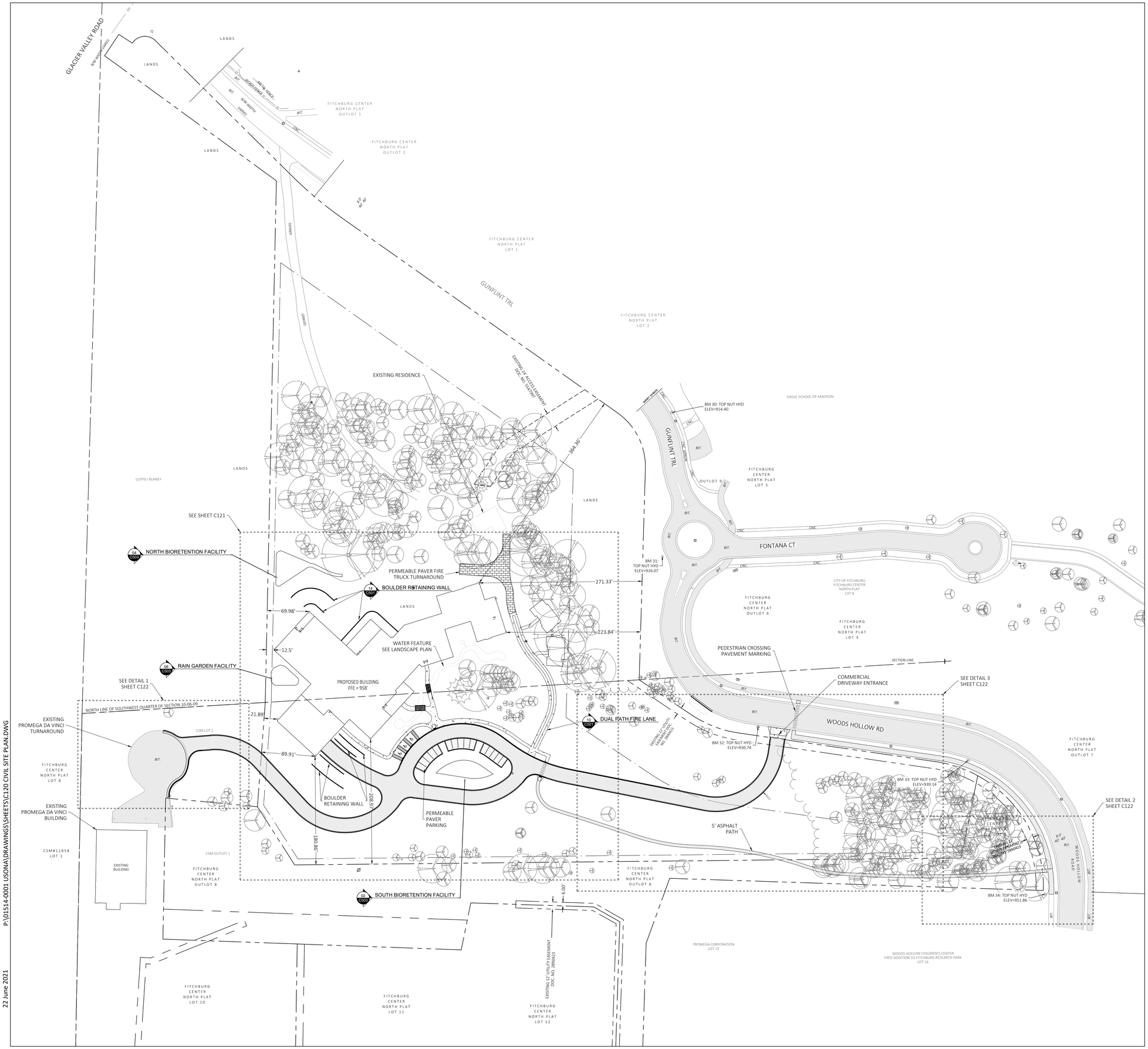
SHEET
DEMOLITION PLAN

DATE
06/22/2021

PROJECT NO.
19-128

SHEET NO.
C110

22 June 2021
P:\01514-0001 USONA\DRAWINGS\SHEETS\C110 DEMOLITION PLAN.DWG



P:\01514-0001 USONA\DRAWINGS\SHEETS\C120 CIVIL SITE PLAN.DWG

22 June 2021

SCALE IN FEET

0 30 60 120

LEGEND

- PROPERTY LINE
- BUILDING SETBACK
- PROPOSED ASPHALT
- PROPOSED CONCRETE

NOTES

1. ALL RADII ARE TO THE FACE OF CURB.
2. USE 4" WIDE, LATEX BASED, HIGH VISIBILITY PAINT FOR STALL LINES. COORDINATE COLOR WITH OWNER.
3. MARK AND STRIPE ADA PARKING SPACES APPROPRIATELY.
4. SIGNS TO MEET MANUAL ON UNIFORM TRAFFIC CONTROL AS TO COLOR, LETTERING AND DIMENSIONS AND SHALL BE INSTALLED AT A HEIGHT OF SEVEN FEET.
5. PROVIDE SIDEWALK CONSTRUCTION JOINTS AT EVEN SPACING AT A DISTANCE APART EQUAL TO THE SIDEWALK WIDTH AND AS IS TYPICAL IN CONCRETE CONSTRUCTION.

SITE INFORMATION

SITE ADDRESS: SUB-ZERO PARKWAY
LOT ACREAGE: 17.8 AC
USE OF PROPERTY: COMMERCIAL/OFFICE
ZONING: PDD

SETBACKS:
STREET: 120 FT
SIDE: 10 FT
REAR: 10 FT

MINIMUM OPEN SPACE REQUIRED: 50%

EXISTING IMPERVIOUS SURFACE AREA: 37,103 SQ.FT.

NEW IMPERVIOUS SURFACE AREA: 111,195 SQ.FT.

PERCENT LOT IMPERVIOUS:
EXISTING: 8.9 %
PROPOSED: 18.7%

OPEN SPACE
EXISTING: 91.1 %
PROPOSED: 81.3 %

TOTAL NUMBER OF SURFACE PARKING STALLS: 18
TOTAL NUMBER OF UNDERGROUND PARKING STALLS: 40
NUMBER OF STALLS DESIGNATED ACCESSIBLE: 3

TOTAL NUMBER OF PARKING STALLS: 58

DISTURBANCE LIMITS: 330,000 SQ.FT.

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ARCHITECTURE + INTERIORS

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REVISIONS

No.	Date:	Description:

Usona Institute

PROJECT
USONA INSTITUTE

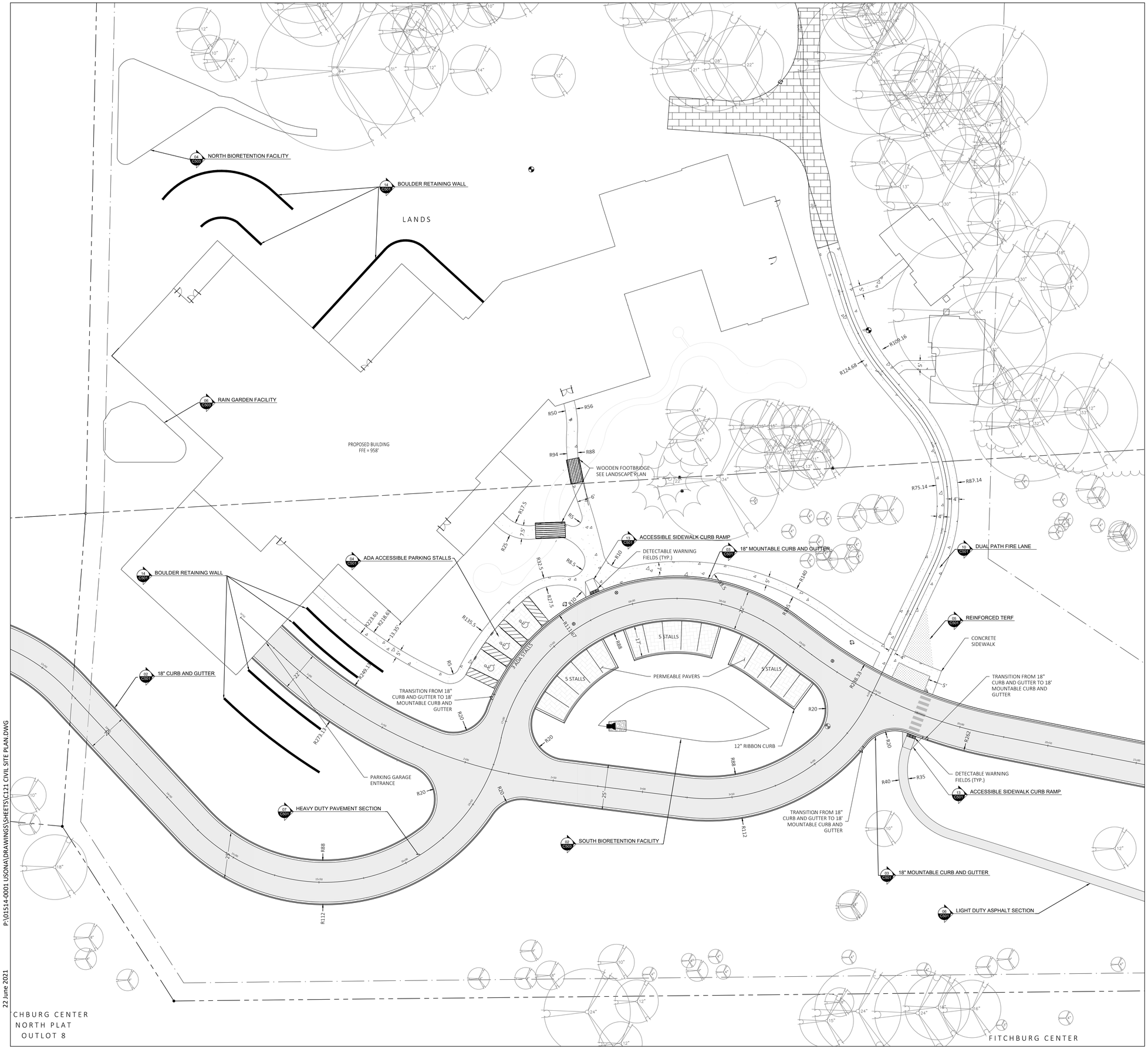
USONA INSTITUTE C/O CINQUE TERRE, LLC

SHEET
CIVIL SITE PLAN - OVERALL

DATE
06/22/2021

PROJECT NO.
19-128

SHEET NO.
C120



P:\01514-0001 USONA\DRAWINGS\SHEETS\C121 CIVIL SITE PLAN.DWG

22 June 2021

SCALE IN FEET

0 20 40 80

LEGEND

- PROPERTY LINE
- BUILDING SETBACK
- PROPOSED ASPHALT
- PROPOSED CONCRETE

NOTES

1. ALL RADII ARE TO THE EDGE OF PAVEMENT
2. USE 4" WIDE, LATEX BASED, HIGH VISIBILITY PAINT FOR STALL LINES. COORDINATE COLOR WITH OWNER.
3. MARK AND STRIPE ADA PARKING SPACES APPROPRIATELY.
4. SIGNS TO MEET MANUAL ON UNIFORM TRAFFIC CONTROL AS TO COLOR, LETTERING AND DIMENSIONS AND SHALL BE INSTALLED AT A HEIGHT OF SEVEN FEET.
5. PROVIDE SIDEWALK CONSTRUCTION JOINTS AT EVEN SPACING AT A DISTANCE APART EQUAL TO THE SIDEWALK WIDTH AND AS IS TYPICAL IN CONCRETE CONSTRUCTION.

SITE INFORMATION

SITE ADDRESS: SUB-ZERO PARKWAY
LOT ACREAGE: 17.8 AC
USE OF PROPERTY: COMMERCIAL/OFFICE
ZONING: PDD

SETBACKS:
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NUMBER OF STALLS DESIGNATED ACCESSIBLE: 3

TOTAL NUMBER OF PARKING STALLS: 58

DISTURBANCE LIMITS: 330,000 SQ.FT.

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

CALL DIGGERS HOTLINE
1-800-242-8511 TOLL FREE

WISCONSIN STATE STATUTE 182.0175(1974) REQUIRES MINIMUM THREE (3) WORK DAYS NOTICE BEFORE YOU EXCAVATE

"THE INFORMATION SHOWN ON THIS DRAWING CONCERNING THE TYPE AND LOCATION OF UNDER-GROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS AS TO THE TYPE AND LOCATION OF UNDER-GROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. IF ADDITIONAL UTILITIES ARE DISCOVERED DURING CONSTRUCTION, THE OWNER WILL PROVIDE EXISTING PLANS OF OTHER UTILITIES SERVING THE SITE AND THE BUILDING (NOT OTHERWISE SHOWN) BE LOCATED BY A VISUAL SURVEY OF THE SITE IN CONJUNCTION WITH THE SURVEYOR WOULD HAVE NO KNOWLEDGE."

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No.	Date:	Description:

Usona Institute

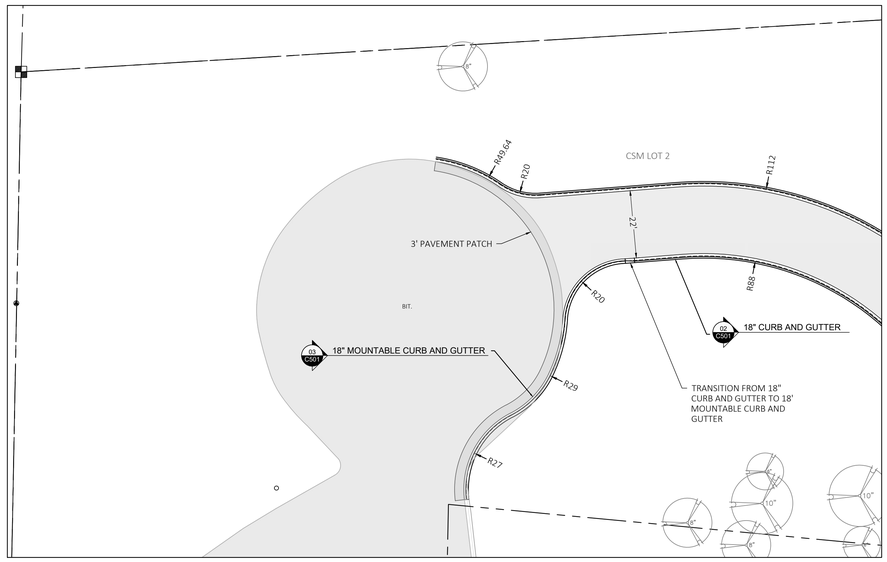
PROJECT
USONA INSTITUTE
USONA INSTITUTE C/O CINQUE TERRE, LLC

SHEET
CIVIL SITE PLAN - CIRCLE DRIVE

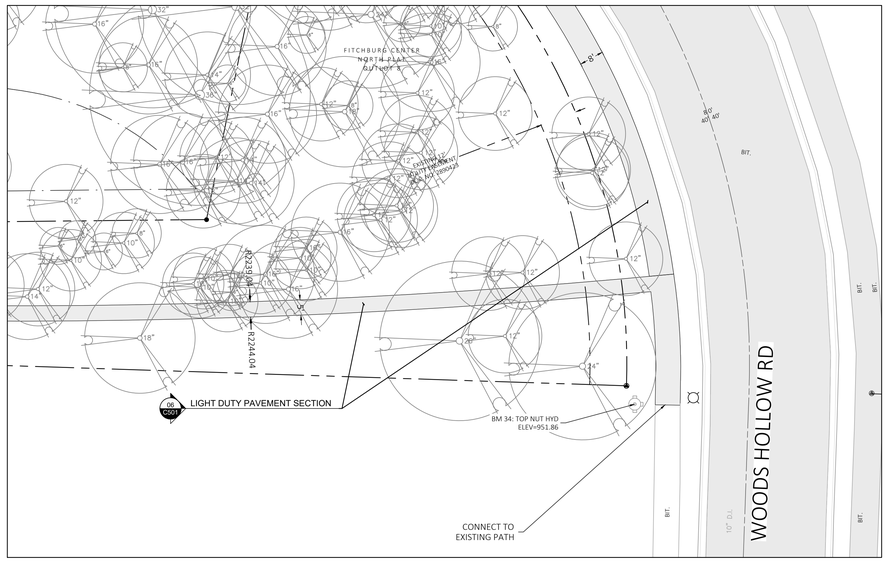
DATE
06/22/2021

PROJECT NO.
19-128

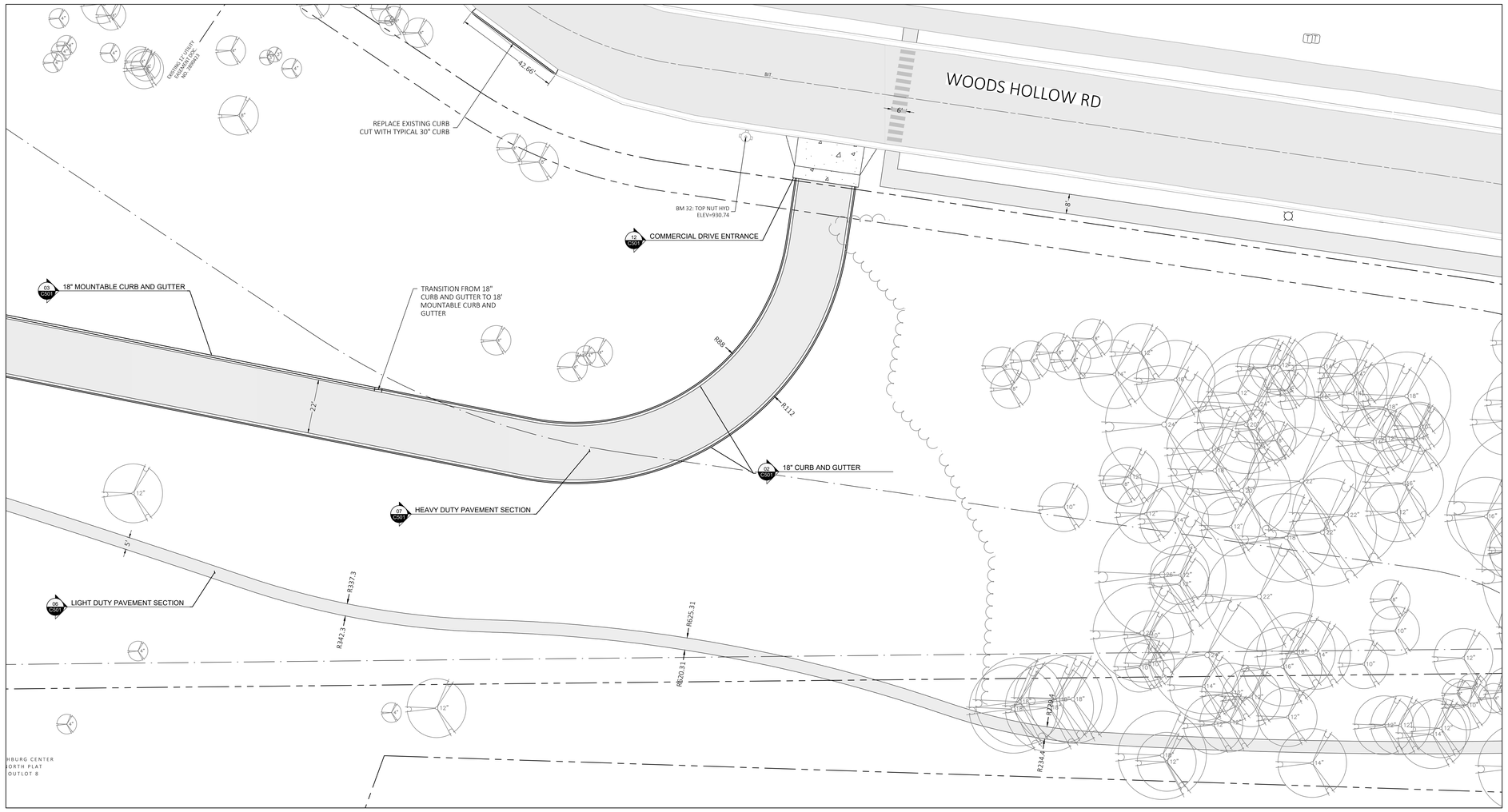
SHEET NO.
C121



1 C122 DA'VINCI TURNAROUND CONNECTION
1" = 20'



2 C122 WOODS HOLLOW ROAD SIDEWALK CONNECTION
1" = 20'



3 C122 LOWER DRIVEWAY CONNECTION
1" = 20'

P:\01514-0001 USONA\DRAWINGS\SHEETS\C122 CIVIL SITE PLAN.DWG

22 June 2021

SCALE IN FEET
0 20 40 80

LEGEND

- PROPERTY LINE
- BUILDING SETBACK
- PROPOSED ASPHALT
- PROPOSED CONCRETE

NOTES

1. ALL RADII ARE TO THE EDGE OF PAVEMENT
2. USE 4" WIDE, LATEX BASED, HIGH VISIBILITY PAINT FOR STALL LINES. COORDINATE COLOR WITH OWNER.
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SITE INFORMATION

SITE ADDRESS: SUB-ZERO PARKWAY
LOT ACREAGE: 17.8 AC
USE OF PROPERTY: COMMERCIAL/OFFICE
ZONING: PDD

SETBACKS:
STREET: 120 FT
SIDE: 10 FT
REAR: 10 FT

MINIMUM OPEN SPACE REQUIRED: 50%

EXISTING IMPERVIOUS SURFACE AREA: 37,103 SQ.FT.

NEW IMPERVIOUS SURFACE AREA: 111,195 SQ.FT.

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EXISTING: 91.1 %
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TOTAL NUMBER OF UNDERGROUND PARKING STALLS: 40
NUMBER OF STALLS DESIGNATED ACCESSIBLE: 3

TOTAL NUMBER OF PARKING STALLS: 58

DISTURBANCE LIMITS: 330,000 SQ.FT.

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

CALL DIGGERS HOTLINE
1-800-242-8511 TOLL FREE
WISCONSIN STATE STATUTE 182.0175(2)(b) REQUIRES MINIMUM THREE (3) WORK DAYS NOTICE BEFORE YOU EXCAVATE

"THE INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS BELIEVED TO BE RELIABLE. HOWEVER, OR ALL INCLUSIVE, THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. WHERE UTILITIES ARE KNOWN TO EXIST IN THE PROPERTY, THE OWNER WILL PROVIDE EXISTING PLANS OF OTHER THAN RECORD. THE OWNER WILL NOT BE RESPONSIBLE FOR THAT OTHERWISE CANNOT BE LOCATED BY A VISUAL INSPECTION OF THE PROPERTY OR OF WHICH THE SURVEYOR WOULD HAVE NO KNOWLEDGE".

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REVISIONS

No.	Date:	Description:

Usona Institute

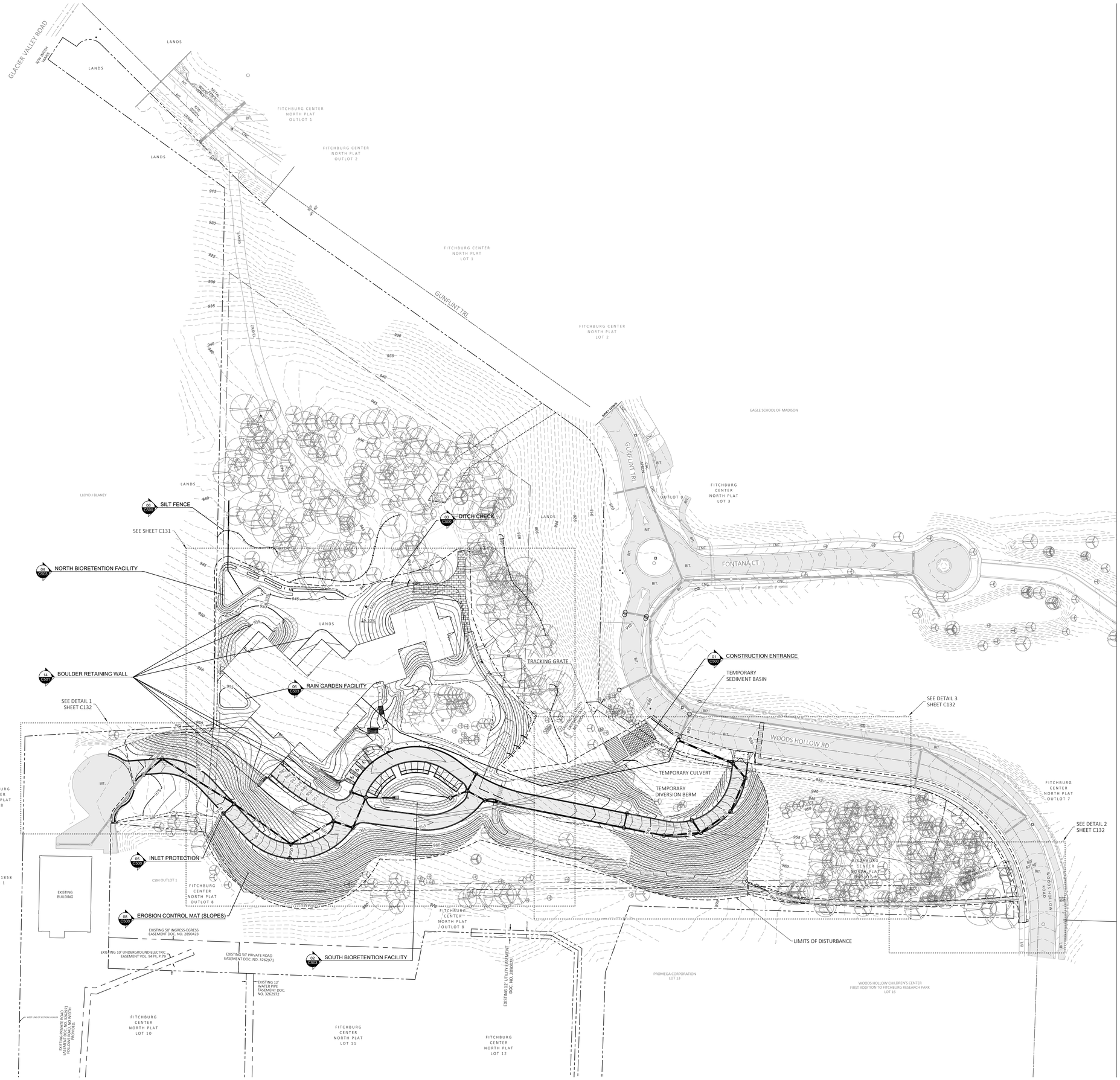
PROJECT
USONA INSTITUTE
USONA INSTITUTE C/O CINQUE TERRE, LLC

SHEET
CIVIL SITE PLAN - ENTRANCES

DATE
06/22/2021

PROJECT NO.
19-128

SHEET NO.
C122



SCALE IN FEET

0 30 60 120

LEGEND

- PROPERTY LINE
- BUILDING SETBACK
- STORM SEWER
- EXISTING MINOR CONTOURS
- 945 EXISTING MAJOR CONTOURS (5-FT)
- PROPOSED MINOR CONTOURS
- 935 PROPOSED MAJOR CONTOURS (5-FT)
- SILT FENCE
- STONE CONSTRUCTION ENTRANCE
- INLET PROTECTION
- CLASS I, TYPE A URBAN
- CLASS II, TYPE C

CONSTRUCTION SITE EROSION CONTROL REQUIREMENTS

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE CURRENT WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) EROSION AND SEDIMENT CONTROL TECHNICAL STANDARDS (dnr.wi.gov).
2. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SITE DISTRUBANCE.
3. ENGINEER / CITY OF FITCHBURG HAS THE RIGHT TO REQUIRE OWNER / CONTRACTOR TO IMPLEMENT ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY.
4. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSPECTED ONCE PER WEEK AND FOLLOWING EACH RAINFALL EVENT. INSPECTION REPORTING SHALL BE IN ACCORDANCE WITH CITY OF FITCHBURG REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN EROSION AND SEDIMENT CONTROL PRACTICES IN WORKING ORDER.
6. DEWATERING PRACTICES SHALL COMPLY WITH TECHNICAL STANDARD 1061.
7. ALL SLOPES EXCEEDING 20% (5:1) SHALL BE STABILIZED WITH A CLASS I, TYPE A URBAN EROSION MAT.
8. ALL SWALES SHALL BE STABILIZED WITH A CLASS II, TYPE C EROSION MAT.
9. DUST CONTROL SHALL BE MITIGATED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1068.
10. TRACKED SOIL FROM THE SITE TO STREETS SHALL BE REMOVED AT THE END OF EACH WORKDAY OR AS DIRECTED BY THE CITY ENGINEER.
11. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED IMMEDIATELY FOLLOWING FINAL GRADING ACTIVITIES, SEEDING WILL BE PER LANDSCAPE PLAN.
12. SEED MIX AND RATE SHALL BE, AT A MINIMUM, IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1059.

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

CALL DIGGERS HOTLINE
1-800-242-8511 TOLL FREE

WISCONSIN STATE STATUTE 182.0175(1974M) REQUIRES MINIMUM THREE (3) WORK DAYS NOTICE BEFORE YOU EXCAVATE

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REVISIONS

No.	Date:	Description:

Usona Institute

PROJECT
USONA INSTITUTE
USONA INSTITUTE C/O CINQUE TERRE, LLC

SHEET
GRADING PLAN - OVERALL

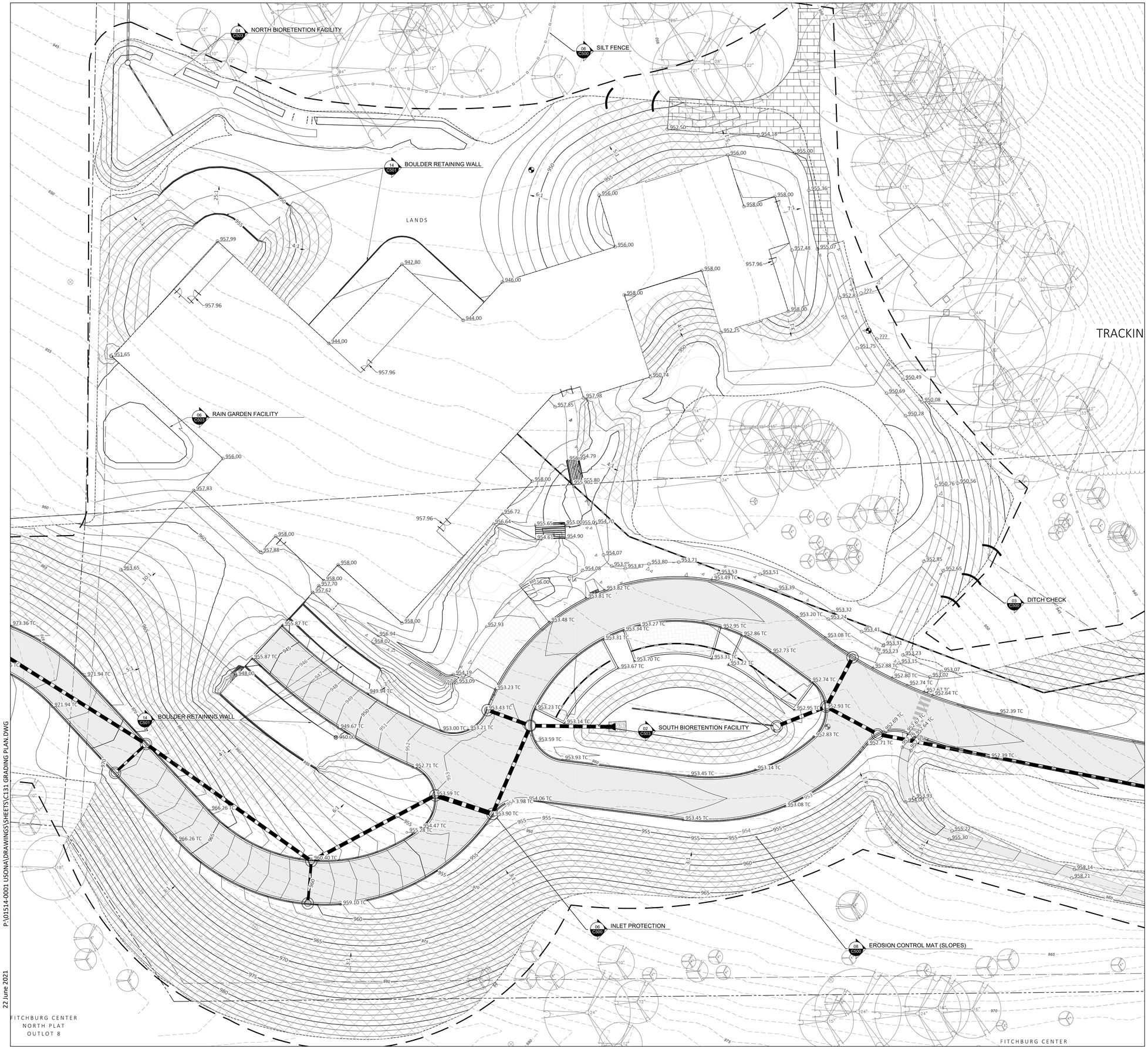
DATE
06/22/2021

PROJECT NO.
19-128

SHEET NO.
C130

22 June 2021

P:\01514-0001 USONA\DRAWINGS\SHEETS\C130 GRADING PLAN.DWG



LEGEND

- PROPERTY LINE
- BUILDING SETBACK
- STORM SEWER
- EXISTING MINOR CONTOURS
- EXISTING MAJOR CONTOURS (5-FT)
- PROPOSED MINOR CONTOURS
- PROPOSED MAJOR CONTOURS (5-FT)
- SILT FENCE
- STONE CONSTRUCTION ENTRANCE
- INLET PROTECTION
- CLASS I, TYPE A URBAN
- CLASS II, TYPE C

CONSTRUCTION SITE EROSION CONTROL REQUIREMENTS

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE CURRENT WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) EROSION AND SEDIMENT CONTROL TECHNICAL STANDARDS (dnr.wi.gov).
2. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SITE DISTRIBANCE.
3. ENGINEER / CITY OF FITCHBURG HAS THE RIGHT TO REQUIRE OWNER / CONTRACTOR TO IMPLEMENT ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY.
4. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSPECTED ONCE PER WEEK AND FOLLOWING EACH RAINFALL EVENT. INSPECTION REPORTING SHALL BE IN ACCORDANCE WITH CITY OF FITCHBURG REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN EROSION AND SEDIMENT CONTROL PRACTICES IN WORKING ORDER.
6. DEWATERING PRACTICES SHALL COMPLY WITH TECHNICAL STANDARD 1061.
7. ALL SLOPES EXCEEDING 20% (5:1) SHALL BE STABILIZED WITH A CLASS I, TYPE A URBAN EROSION MAT.
8. ALL SWALES SHALL BE STABILIZED WITH A CLASS II, TYPE C EROSION MAT.
9. DUST CONTROL SHALL BE MITIGATED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1068.
10. TRACKED SOIL FROM THE SITE TO STREETS SHALL BE REMOVED AT THE END OF EACH WORKDAY OR AS DIRECTED BY THE CITY ENGINEER.
11. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED IMMEDIATELY FOLLOWING FINAL GRADING ACTIVITIES.
12. SEED MIX AND RATE SHALL BE, AT A MINIMUM, IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1059.

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WISCONSIN STATE STATUTES 182.0175(1974) REQUIRES MINIMUM THREE (3) WORK DAYS NOTICE BEFORE YOU EXCAVATE

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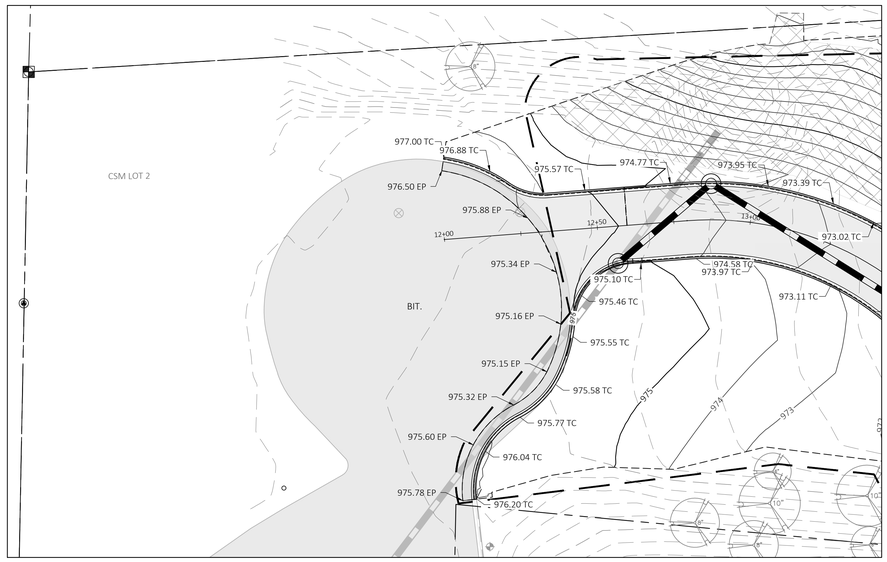
SHEET
GRADING PLAN - CIRCLE DRIVE

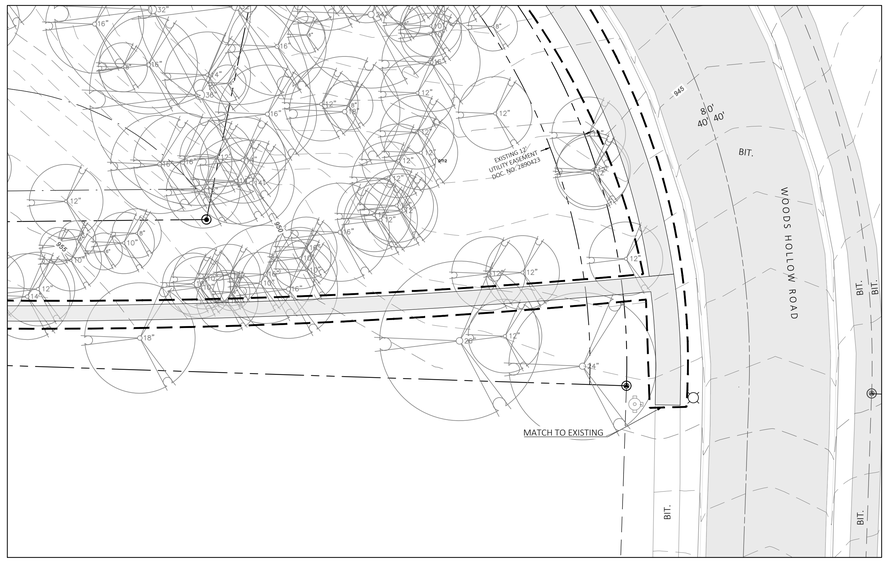
DATE
06/22/2021

PROJECT NO.
19-128

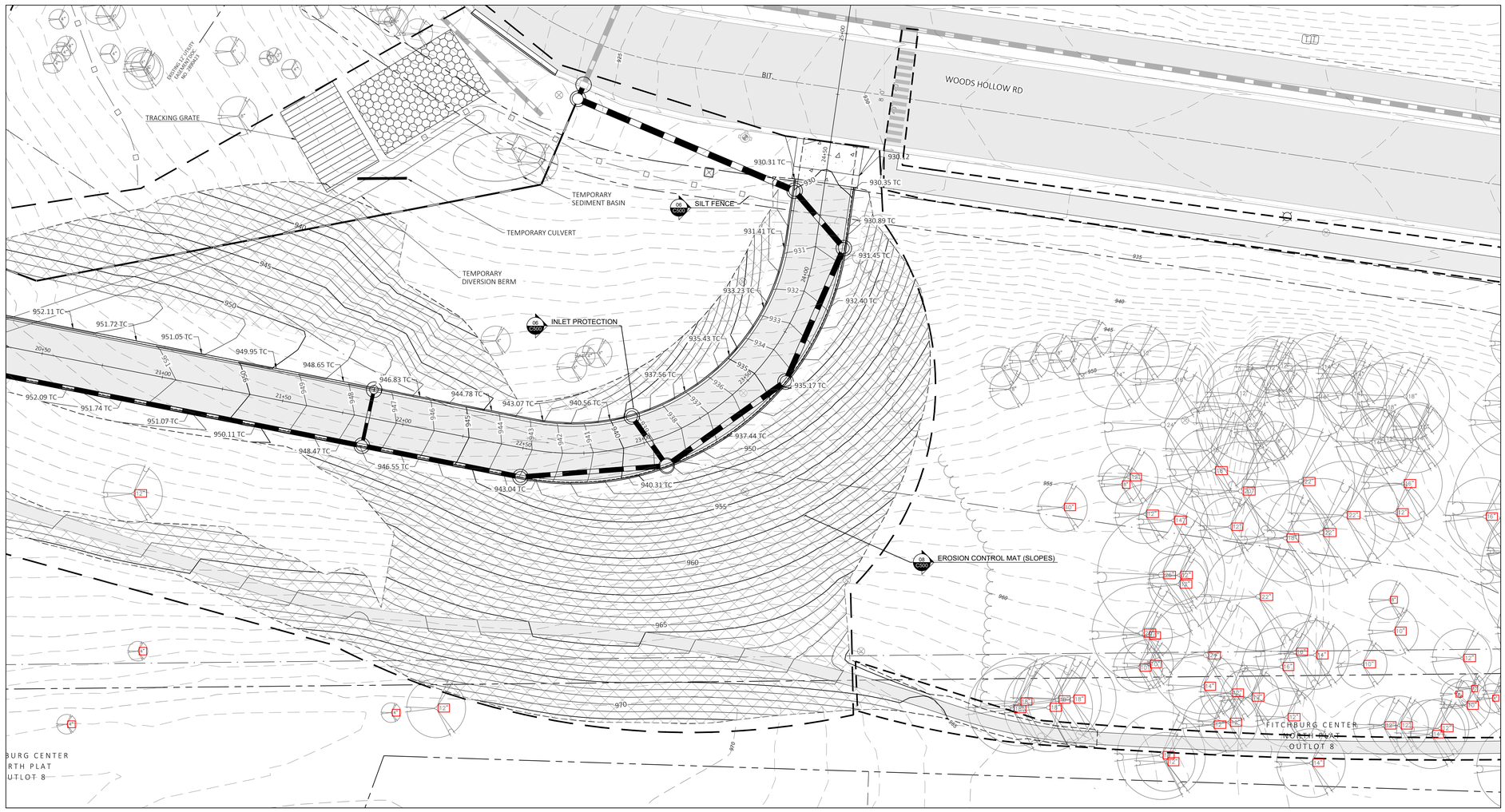
SHEET NO.
C131



3 C132 DA'VINCI TURNAROUND CONNECTION
1" = 20'



3 C132 WOODS HOLLOW ROAD SIDEWALK CONNECTION
1" = 20'



3 C132 LOWER DRIVEWAY CONNECTION
1" = 20'

P:\01514-0001 USONA\DRAWINGS\SHEETS\C132 GRADING PLAN.DWG

22 June 2021

SCALE IN FEET
0 30 60 120

LEGEND

- PROPERTY LINE
- BUILDING SETBACK
- STORM SEWER
- EXISTING MINOR CONTOURS
- 945 EXISTING MAJOR CONTOURS (5-FT)
- PROPOSED MINOR CONTOURS
- 935 PROPOSED MAJOR CONTOURS (5-FT)
- SILT FENCE
- STONE CONSTRUCTION ENTRANCE
- INLET PROTECTION
- CLASS I, TYPE A URBAN
- CLASS II, TYPE C

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2. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SITE DISTRUBANCE.
3. ENGINEER / CITY OF FITCHBURG HAS THE RIGHT TO REQUIRE OWNER / CONTRACTOR TO IMPLEMENT ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY.
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7. ALL SLOPES EXCEEDING 20% (5:1) SHALL BE STABILIZED WITH A CLASS I, TYPE A URBAN EROSION MAT.
8. ALL SWALES SHALL BE STABILIZED WITH A CLASS II, TYPE C EROSION MAT.
9. DUST CONTROL SHALL BE MITIGATED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1068.
10. TRACKED SOIL FROM THE SITE TO STREETS SHALL BE REMOVED AT THE END OF EACH WORKDAY OR AS DIRECTED BY THE CITY ENGINEER.
11. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED IMMEDIATELY FOLLOWING FINAL GRADING ACTIVITIES.
12. SEED MIX AND RATE SHALL BE, AT A MINIMUM, IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1059.

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

CALL DIGGERS HOTLINE
1-800-242-8511 TOLL FREE

WISCONSIN STATE STATUTES SEC 182.0175(1974) REQUIRES A MINIMUM THREE (3) WORK DAYS NOTICE BEFORE YOU EXCAVATE

"THE INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES HAS BEEN OBTAINED FROM ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AFFECTED BY HIS OPERATIONS. HE SHALL CONTACT ALL UTILITY COMPANIES IN ADVANCE OF EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THEIR FACILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL UTILITY LOCATIONS AND THOSE SHOWN ON THE DRAWINGS. THE OMISSION OF ANY UTILITY FACILITY FROM THESE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR PROTECTING SUCH FACILITY, NOR SHALL IT BE GROUNDS FOR ANY CLAIM AGAINST THE OWNER OR ENGINEER WHICH MIGHT OTHERWISE ARISE BECAUSE THE CONTRACTOR WOULD HAVE NO KNOWLEDGE."

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REVISIONS

No.	Date:	Description:

Usona Institute

PROJECT
USONA INSTITUTE
USONA INSTITUTE C/O CINQUE TERRE, LLC

SHEET
GRADING PLAN - ENTRANCES

DATE
06/22/2021

PROJECT NO.
19-128

SHEET NO.
C132

PROPOSED STORM SEWER PIPE SCHEDULE			
Pipe Label	Length (FT)	Slope (%)	Size
A1	5	4.82%	18"
A1.1	38	2.00%	6"
A1.2	210	5.46%	6"
A1.3	246	2.35%	6"
A1.4	84	1.00%	6"
A2	96	5.90%	24"
A3	31	3.19%	21"
A4	59	4.87%	21"
A5	60	8.00%	21"
A5.1	25	2.00%	18"
A6	60	6.50%	18"
A7	66	5.95%	18"
A7.1	23	4.00%	12"
A8	229	1.30%	18"
A9	32	2.00%	18"
A9.1	31	2.01%	18"
A10	29	1.00%	18"
A11	81	0.00%	6"
B1	42	0.50%	18"
B1.1	25	0.50%	18"
B2	53	0.50%	18"
B3	33	0.50%	23"
B4	78	7.50%	18"
B4.1	23	1.00%	12"
B5	113	6.24%	18"
B5.1	24	0.50%	12"
B6	137	1.50%	18"
B7	40	1.00%	18"
C1	48	0.00%	6"
C2	113	0.89%	12"
U1	27	1.00%	6"
U2	44	0.00%	6"
U3	74	0.00%	6"

PROPOSED STORM SEWER STRUCTURE SCHEDULE				
Label (#)	RIM/TC	Invert	Structure Description	Grate
A1	924.24	920.05	48" DIA MANHOLE	R-1550, SOLID LID
A2	930.01	925.82	48" DIA MANHOLE	R-3170-B, OPEN CURB BOX
A3	930.71	926.90	48" DIA MANHOLE	R-3170-B, OPEN CURB BOX
A4	934.31	929.89	48" DIA MANHOLE	R-3170-B, OPEN CURB BOX
A5	938.62	934.76	60" DIA MANHOLE	R-3170-B, OPEN CURB BOX
A5.1	939.21	935.35	48" DIA MANHOLE	R-3170-B, OPEN CURB BOX
A6	942.95	938.75	48" DIA MANHOLE	R-3170-B, OPEN CURB BOX
A7	947.45	942.78	48" DIA MANHOLE	R-3170-B, OPEN CURB BOX
A7.1	947.43	943.82	48" DIA MANHOLE	R-3170-B, OPEN CURB BOX
A8	952.17	945.86	48" DIA MANHOLE	R-3170-B, OPEN CURB BOX
A9	952.41	946.61	48" DIA MANHOLE	R-3170-B, OPEN CURB BOX
A9.1	952.42	948.27	36" DIA MANHOLE	R-3170-B, OPEN CURB BOX
A10	950.80	947.00	48" DIA MANHOLE	R-2561, BEEHIVE
B1	952.88	950.00	60" DIA MANHOLE	R-3170-B, OPEN CURB BOX
B1.1	952.89	950.15	36" DIA MANHOLE	R-3170-B, OPEN CURB BOX
B2	953.37	950.30	36" DIA MANHOLE	R-3170-B, OPEN CURB BOX
B3	953.06	950.55	36" DIA MANHOLE	R-3170-B, OPEN CURB BOX
B4	959.87	956.55	36" DIA MANHOLE	R-3170-B, OPEN CURB BOX
B4.1	959.87	957.23	36" DIA MANHOLE	R-3170-B, OPEN CURB BOX
B5	969.01	964.02	48" DIA MANHOLE	R-3170-B, OPEN CURB BOX
B5.1	969.01	965.32	48" DIA MANHOLE	R-3170-B, OPEN CURB BOX
B6	973.89	966.20	36" DIA MANHOLE	R-3170-B, OPEN CURB BOX
B7	974.73	966.70	36" DIA MANHOLE	R-3170-B, OPEN CURB BOX

LLOYD J BLANEY

EXISTING RESIDENCE

EXISTING 25' UTILITY EASEMENT

GRAVEL

LANDS

CSM LOT 1

CSM LOT 2

CSM OUTLOT 1

STM MH #C1
TC 945.50
6" (SE) INV 940.00
12" (N) INV 940.00

NORTH BIORETENTION FACILITY

RAIN GARDEN FACILITY

PROPOSED BUILDING
FFE = 958'

WATER CONNECTION: 948.5'
COORDINATE WITH PLUMBING PLANS

STORM CONNECTION: 940.5'
COORDINATE WITH PLUMBING PLANS

SAN CONNECTION: 939.25
COORDINATE WITH PLUMBING PLANS

STM MH #B6
TC 973.89
18" (SW) INV 966.30
18" (SE) INV 966.20

STM MH #B7
TC 974.73
18" (NE) INV 966.70

STA = 12+81.11
8" 45.00° BEND
ELEV = 967.18
-3.67

STM MH #B5
TC 969.01
18" (NW) INV 964.19
18" (SW) INV 964.09
18" (SE) INV 964.02

STM MH #B5.1
TC 969.01 adj
12" (NW) INV 965.32

STM MH #B4
TC 959.87
12" (S) INV 957.00
18" (NW) INV 957.00
18" (NE) INV 956.93

STM MH #B3
TC 953.06
18" (SW) INV 950.70
23" (E) INV 950.55

STM MH #B2
TC 953.37
18" (SW) INV 950.80
18" (NE) INV 950.70

STM MH #B1
TC 952.88
18" (SW) INV 950.02
18" (SE) INV 950.02
18" (NW) INV 950.00

STM MH #B1.1
TC 952.89 adj
18" (E) INV 950.15

STM MH #B2.1
TC 953.37
23" (W) INV 950.38
18" (NE) INV 950.30

STA = 16+52.94
8" 45.00° BEND
ELEV = 966.82
-5.69

STM MH #B4.1
TC 959.87
18" (W) INV 957.23

STA = 10+57.87
8" 22.50° BEND
ELEV = 953.63
-3.65

STA = 10+57.87
HYDRANT - 13.99'
ELEV = 952.82
-3.14

13.99' - 8" D.I. WM

STM MH #B4.1
TC 959.87
18" (N) INV 957.23

STA = 15+80.66
8" 11.25° BEND
ELEV = 965.61
-8.45

STA = 17+07.72
HYDRANT - 15.12'

STA = 17+68.04
8" WV - 3.18

STM MH #B5.1
TC 952.89 adj
18" (E) INV 950.15

STA = 19+52.61
8" 11.25° BEND
ELEV = 945.59
-4.47

STA = 19+22.30
8" 11.25° BEND
ELEV = 945.40
-4.47

STM MH #A10
TC 950.80
6" (NE) INV 947.00
18" (E) INV 947.00

STM MH #B1
TC 952.88
18" (W) INV 950.02
18" (SW) INV 950.02
18" (SE) INV 950.00

STM MH #B2
TC 953.37
18" (W) INV 950.80
18" (NW) INV 950.70

STM MH #B3
TC 953.06
18" (W) INV 950.55

STA = 20+13.08
8" 11.25° BEND
0.00

STM MH #A9
TC 952.41
18" (NE) INV 947.64
18" (SE) INV 946.61

STM MH #A8
TC 952.17
18" (NW) INV 945.96
18" (E) INV 945.86

STM MH #A7
TC 947.45
18" (W) INV 942.88
18" (SE) INV 942.78
18" (E) INV 942.78

STM MH #A6
TC 942.98
18" (W) INV 938.85
18" (E) INV 938.75

STM MH #A5.1
TC 939.21
18" (SE) INV 935.35

STM MH #A5
TC 938.62
18" (W) INV 934.86
18" (NW) INV 934.86
12" (N) INV 934.76

STM MH #A4
TC 934.31
18" (W) INV 929.99
21" (SE) INV 929.89

STM MH #A3
TC 930.71
21" (SW) INV 927.00
21" (NW) INV 926.90

STM MH #A2
TC 930.01
24" (SE) INV 925.92
24" (NW) INV 925.82

STM MH #A1
TC 924.24
24" (SE) INV 920.15
6" (SW) INV 921.65
18" (NE) INV 920.05

SAN MH #1
RIM 952.41
8" W 937.42
8" E 937.32

SAN MH #2
RIM 952.75
8" W 938.21
8" E 938.11

SAN MH #3
RIM 953.12
8" W 937.22
8" E 937.12

SAN MH #4
RIM 952.42
8" W 938.19
8" E 938.09

SAN MH #5
RIM 952.46
8" W 938.23
8" E 938.13

SAN MH #6
TC 952.42
8" W 938.42
8" E 938.32

SAN MH #7
RIM 952.35
8" W 938.43
8" E 938.33

SAN MH #8
TC 952.42
8" W 938.42
8" E 938.32

SAN MH #9
TC 952.42
8" W 938.42
8" E 938.32

SAN MH #A1
TC 947.43
12" (S) INV 943.83

SAN MH #A2
TC 948.01
24" (SE) INV 925.92
24" (NW) INV 925.82

SAN MH #A3
TC 930.71
8" W 926.71
8" E 926.61

SAN MH #A4
TC 934.31
8" W 929.99
8" E 929.89

SAN MH #A5
TC 938.62
8" W 934.86
8" E 934.76

SAN MH #A6
TC 942.98
8" W 938.85
8" E 938.75

SAN MH #A7
TC 947.45
8" W 942.88
8" E 942.78

SAN MH #A8
TC 952.17
8" W 945.96
8" E 945.86

SAN MH #A9
TC 952.41
8" W 946.71
8" E 946.61

SAN MH #A10
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A11
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A12
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A13
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A14
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A15
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A16
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A17
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A18
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A19
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A20
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A21
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A22
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A23
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A24
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A25
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A26
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A27
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A28
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A29
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A30
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A31
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A32
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A33
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A34
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A35
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A36
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A37
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A38
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A39
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A40
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A41
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A42
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A43
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A44
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A45
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A46
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A47
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A48
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A49
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A50
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A51
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A52
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A53
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A54
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A55
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A56
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A57
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A58
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A59
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A60
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A61
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A62
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A63
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A64
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A65
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A66
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A67
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A68
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A69
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A70
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A71
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A72
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A73
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A74
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A75
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A76
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A77
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A78
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A79
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A80
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A81
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A82
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A83
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A84
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A85
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A86
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A87
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A88
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A89
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A90
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A91
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A92
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A93
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A94
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A95
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A96
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A97
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A98
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A99
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A100
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A101
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A102
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A103
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A104
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A105
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A106
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A107
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A108
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A109
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A110
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A111
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A112
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A113
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A114
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A115
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A116
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A117
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A118
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A119
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A120
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A121
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A122
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A123
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A124
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A125
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A126
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A127
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A128
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A129
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A130
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A131
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A132
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A133
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A134
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A135
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A136
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A137
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A138
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A139
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8" W 947.00
8" E 946.90

SAN MH #A140
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A141
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A142
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8" W 947.00
8" E 946.90

SAN MH #A143
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A144
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A145
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8" W 947.00
8" E 946.90

SAN MH #A146
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A147
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A148
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A149
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A150
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A151
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A152
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A153
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A154
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8" E 946.90

SAN MH #A155
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8" E 947.79

SAN MH #A156
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8" E 948.17

SAN MH #A157
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8" E 946.90

SAN MH #A158
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8" W 947.89
8" E 947.79

SAN MH #A159
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8" E 948.17

SAN MH #A160
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8" E 946.90

SAN MH #A161
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8" E 947.79

SAN MH #A162
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8" E 948.17

SAN MH #A163
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8" E 946.90

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SAN MH #A165
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8" E 948.17

SAN MH #A166
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8" E 946.90

SAN MH #A167
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8" E 947.79

SAN MH #A168
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8" E 948.17

SAN MH #A169
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8" E 946.90

SAN MH #A170
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8" E 947.79

SAN MH #A171
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8" E 948.17

SAN MH #A172
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8" E 946.90

SAN MH #A173
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8" W 947.89
8" E 947.79

SAN MH #A174
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8" W 948.27
8" E 948.17

SAN MH #A175
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8" E 946.90

SAN MH #A176
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8" E 947.79

SAN MH #A177
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8" E 948.17

SAN MH #A178
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8" E 946.90

SAN MH #A179
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8" E 947.79

SAN MH #A180
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A181
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8" W 947.00
8" E 946.90

SAN MH #A182
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8" W 947.89
8" E 947.79

SAN MH #A183
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A184
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A185
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8" E 947.79

SAN MH #A186
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8" W 948.27
8" E 948.17

SAN MH #A187
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8" W 947.00
8" E 946.90

SAN MH #A188
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8" E 947.79

SAN MH #A189
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8" E 948.17

SAN MH #A190
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8" E 946.90

SAN MH #A191
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8" E 947.79

SAN MH #A192
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8" E 948.17

SAN MH #A193
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8" W 947.00
8" E 946.90

SAN MH #A194
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8" W 947.89
8" E 947.79

SAN MH #A195
TC 952.42
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8" E 948.17

SAN MH #A196
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A197
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8" W 947.89
8" E 947.79

SAN MH #A198
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8" E 948.17

SAN MH #A199
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8" W 947.00
8" E 946.90

SAN MH #A200
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8" W 947.89
8" E 947.79

SAN MH #A201
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A202
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A203
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8" W 947.89
8" E 947.79

SAN MH #A204
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8" E 948.17

SAN MH #A205
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A206
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A207
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A208
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A209
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A210
TC 952.42
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8" E 948.17

SAN MH #A211
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A212
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A213
TC 952.42
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8" E 948.17

SAN MH #A214
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A215
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A216
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A217
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A218
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8" W 947.89
8" E 947.79

SAN MH #A219
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A220
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A221
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A222
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A223
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A224
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8" W 947.89
8" E 947.79

SAN MH #A225
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8" E 948.17

SAN MH #A226
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8" E 946.90

SAN MH #A227
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8" E 947.79

SAN MH #A228
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8" E 948.17

SAN MH #A229
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8" E 946.90

SAN MH #A230
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8" E 947.79

SAN MH #A231
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8" E 948.17

SAN MH #A232
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8" E 946.90

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8" E 947.79

SAN MH #A234
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8" E 948.17

SAN MH #A235
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8" E 946.90

SAN MH #A236
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8" E 947.79

SAN MH #A237
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8" E 948.17

SAN MH #A238
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A239
TC 951.89
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8" E 947.79

SAN MH #A240
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8" E 948.17

SAN MH #A241
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8" W 947.00
8" E 946.90

SAN MH #A242
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8" E 947.79

SAN MH #A243
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8" W 948.27
8" E 948.17

SAN MH #A244
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8" W 947.00
8" E 946.90

SAN MH #A245
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A246
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8" W 948.27
8" E 948.17

SAN MH #A247
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8" W 947.00
8" E 946.90

SAN MH #A248
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8" E 947.79

SAN MH #A249
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8" E 948.17

SAN MH #A250
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8" W 947.00
8" E 946.90

SAN MH #A251
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8" E 947.79

SAN MH #A252
TC 952.42
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8" E 948.17

SAN MH #A253
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A254
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8" E 947.79

SAN MH #A255
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8" E 948.17

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8" W 947.00
8" E 946.90

SAN MH #A257
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8" E 947.79

SAN MH #A258
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8" E 948.17

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8" E 946.90

SAN MH #A260
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8" E 947.79

SAN MH #A261
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8" E 948.17

SAN MH #A262
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8" E 946.90

SAN MH #A263
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8" E 947.79

SAN MH #A264
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8" E 948.17

SAN MH #A265
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8" E 946.90

SAN MH #A266
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8" E 947.79

SAN MH #A267
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8" E 948.17

SAN MH #A268
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8" E 946.90

SAN MH #A269
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8" E 947.79

SAN MH #A270
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8" E 948.17

SAN MH #A271
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8" E 946.90

SAN MH #A272
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8" E 947.79

SAN MH #A273
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8" W 948.27
8" E 948.17

SAN MH #A274
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8" W 947.00
8" E 946.90

SAN MH #A275
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8" E 947.79

SAN MH #A276
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8" E 948.17

SAN MH #A277
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8" W 947.00
8" E 946.90

SAN MH #A278
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A279
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A280
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A281
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8" W 947.89
8" E 947.79

SAN MH #A282
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8" W 948.27
8" E 948.17

SAN MH #A283
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8" E 946.90

SAN MH #A284
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8" W 947.89
8" E 947.79

SAN MH #A285
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A286
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8" E 946.90

SAN MH #A287
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8" W 947.89
8" E 947.79

SAN MH #A288
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8" E 948.17

SAN MH #A289
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8" E 946.90

SAN MH #A290
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8" E 947.79

SAN MH #A291
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8" E 948.17

SAN MH #A292
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8" E 946.90

SAN MH #A293
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8" E 947.79

SAN MH #A294
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8" E 948.17

SAN MH #A295
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8" E 946.90

SAN MH #A296
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8" E 947.79

SAN MH #A297
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8" E 948.17

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8" E 946.90

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8" E 947.79

SAN MH #A300
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8" E 948.17

SAN MH #A301
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8" W 947.00
8" E 946.90

SAN MH #A302
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8" W 947.89
8" E 947.79

SAN MH #A303
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8" W 948.27
8" E 948.17

SAN MH #A304
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8" W 947.00
8" E 946.90

SAN MH #A305
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8" W 947.89
8" E 947.79

SAN MH #A306
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8" W 948.27
8" E 948.17

SAN MH #A307
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A308
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8" W 947.89
8" E 947.79

SAN MH #A309
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A310
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8" W 947.00
8" E 946.90

SAN MH #A311
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8" W 947.89
8" E 947.79

SAN MH #A312
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A313
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A314
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A315
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A316
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A317
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8" W 947.89
8" E 947.79

SAN MH #A318
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A319
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A320
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8" W 947.89
8" E 947.79

SAN MH #A321
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8" E 948.17

SAN MH #A322
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8" W 947.00
8" E 946.90

SAN MH #A323
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A324
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A325
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A326
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A327
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A328
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A329
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8" W 947.89
8" E 947.79

SAN MH #A330
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8" E 948.17

SAN MH #A331
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8" W 947.00
8" E 946.90

SAN MH #A332
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8" W 947.89
8" E 947.79

SAN MH #A333
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8" E 948.17

SAN MH #A334
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8" W 947.00
8" E 946.90

SAN MH #A335
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8" W 947.89
8" E 947.79

SAN MH #A336
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8" W 948.27
8" E 948.17

SAN MH #A337
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8" E 946.90

SAN MH #A338
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8" E 947.79

SAN MH #A339
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A340
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A341
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8" W 947.89
8" E 947.79

SAN MH #A342
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A343
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A344
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A345
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A346
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A347
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A348
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A349
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A350
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A351
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A352
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A353
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A354
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A355
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A356
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A357
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A358
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A359
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A360
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A361
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A362
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A363
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A364
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A365
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A366
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A367
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A368
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A369
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A370
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A371
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A372
TC 952.42
8" W 948.27
8" E 948.17

SAN MH #A373
TC 950.80
8" W 947.00
8" E 946.90

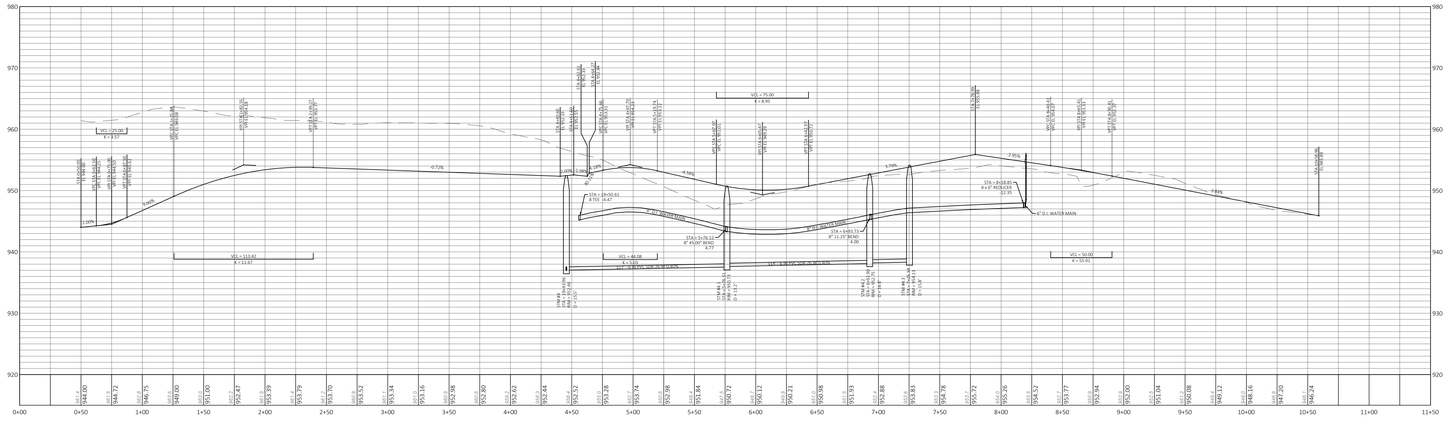
SAN MH #A374
TC 951.89
8" W 947.89
8" E 947.79

SAN MH #A375
TC 952.42
8" W 948.27
8" E 948.17

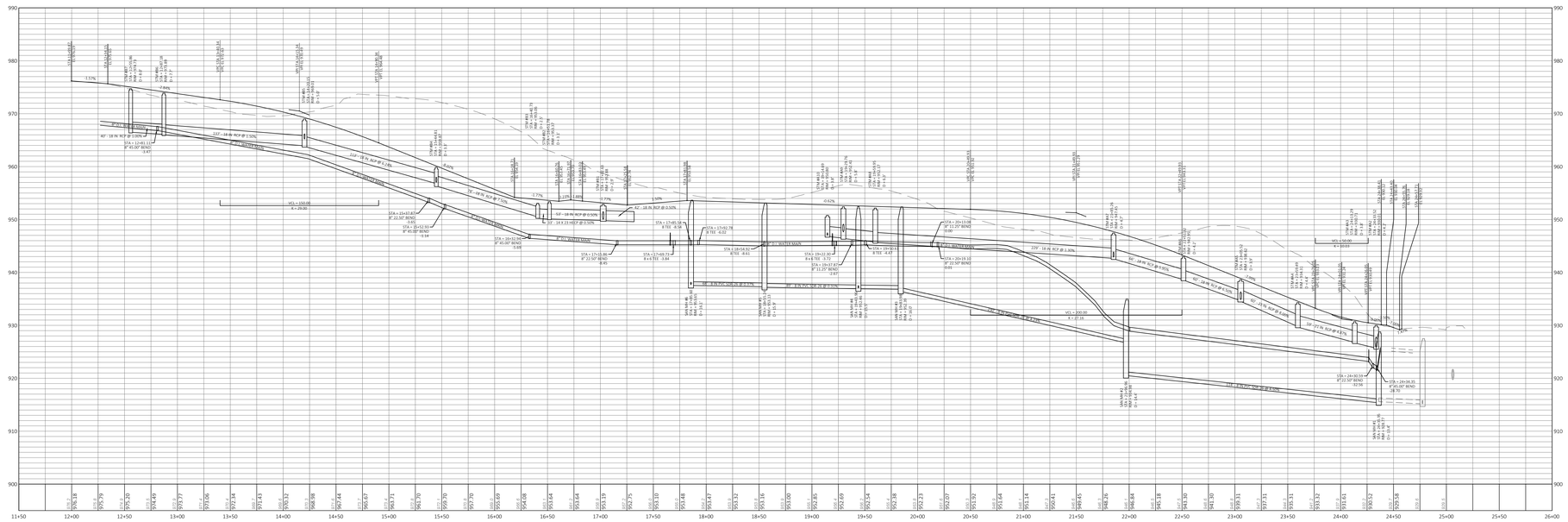
SAN MH #A376
TC 950.80
8" W 947.00
8" E 946.90

SAN MH #A

Profile View of Usona-ParkingGarage
V Scale : 10
H Scale : 50
Exaggeration : 5



Profile View of Usona-MainDrive
V Scale : 10
H Scale : 50
Exaggeration : 5



01 C500 STONE TRACKING PAD

NO SCALE

MATERIAL NOTES

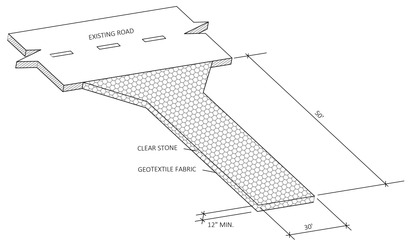
1. THE AGGREGATE FOR TRACKING PAD SHALL BE 3-6" CLEAR STONE.
2. THE TRACKING PAD SHALL BE UNDERLAIN WITH A WDOT TYPE HR GEOTEXTILE FABRIC.

INSTALLATION NOTES

1. INSTALLATION SHALL CONFORM WITH THE REQUIREMENTS OF WDNR CONSERVATION PRACTICE STANDARD 1057.
2. THE TRACKING PAD SHALL BE INSTALLED PRIOR TO ANY TRAFFIC LEAVING THE SITE. STONE TRACKING PAD SHALL BE USED AT ALL POINTS OF CONSTRUCTION EGRESS.
3. DIMENSIONS OF THE TRACKING PAD SHALL BE MINIMUM AS NOTED ON THE FIGURE ABOVE.
4. SURFACE WATER SHALL BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY FROM TRACKING PADS OR CONVEYED UNDER AND AROUND THEM USING CULVERTS OR OTHER PRACTICES.
5. TRACKING PAD SHALL BE REMOVED OR INCORPORATED INTO GRAVEL DRIVEWAY ONLY AFTER CONSTRUCTION IS COMPLETE AND THE SITE HAS BEEN STABILIZED.

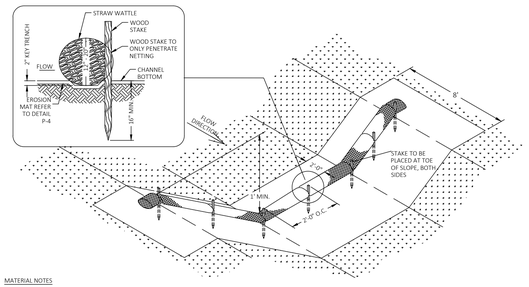
INSPECTION & MAINTENANCE NOTES

1. STONE TRACKING PADS SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24 HOUR PERIOD.
2. ADDITIONAL AGGREGATE SHALL BE PLACED IF THE TRACKING PAD BECOMES BURIED OR IF SEDIMENT IS NOT BEING REMOVED EFFECTIVELY FROM THE VEHICLE TIRES.
3. A MINIMUM 30-FEET WIDE BY 50-FEET LONG BY 12-INCH THICK PAD SHALL BE MAINTAINED AT ALL TIMES.
4. THE TRACKING PAD PERFORMANCE SHALL BE MAINTAINED BY SCRAPING OR TOP-DRESSING WITH ADDITIONAL AGGREGATE.
5. ANY SEDIMENT TRACKED ONTO A PUBLIC OR PRIVATE ROAD SHOULD BE REMOVED BY STREET CLEANING AT THE END OF EACH WORKING DAY.
6. MAINTENANCE SHALL BE COMPLETED AS SOON AS POSSIBLE WITH CONSIDERATION FOR SITE CONDITIONS.



02 C500 SILT SOCK

NO SCALE



MATERIAL NOTES

1. DITCH CHECKS SHALL BE CONSTRUCTED OF APPROVED MATERIALS LISTED IN WISCONSIN DEPARTMENT OF TRANSPORTATION EROSION CONTROL PRODUCT ACCEPTABILITY LIST (PAL) FOR TEMPORARY DITCH CHECKS.
2. EROSION MAT SHALL BE SELECTED AND INSTALLED PER THE REQUIREMENTS LISTED IN DETAIL D-7.
3. WOOD STAKES SHALL MEET THE FOLLOWING REQUIREMENTS:
   FOR 12" SEDIMENT LOGS: 1½" X 1½" X 30" AIR OR KILN DRIED HICKORY OR OAK STAKES
   FOR 20" SEDIMENT LOGS: 1½" X 1½" X 48" AIR OR KILN DRIED HICKORY OR OAK STAKES

INSTALLATION NOTES

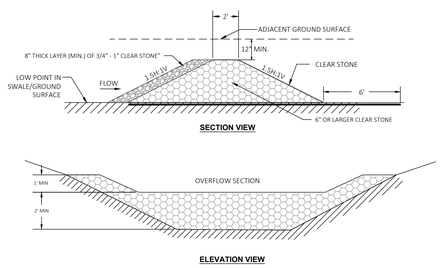
1. INSTALLATION SHALL CONFORM WITH THE REQUIREMENTS OF WDNR CONSERVATION PRACTICE STANDARD 1062.
2. PROPRIETARY DITCH CHECKS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
3. DITCH CHECK SHALL BE INSTALLED SUCH THAT ENDS ARE HIGHER THAN THE CENTER CREATING A STABLE OVERFLOW POINT. ENDS SHOULD BE A MINIMUM OF 6" HIGHER THAN THE EXPECTED DESIGN WATER LEVEL.
4. DITCH CHECKS SHOULD BE INSTALLED SUCH THAT ADJOINING PROPERTY IS NOT NEGATIVELY IMPACTED.
5. DITCH CHECKS SHOULD BE USED IN CONJUNCTION WITH OTHER PERMANENT RESTORATION PRACTICES.

INSPECTION & MAINTENANCE NOTES

1. DITCH CHECKS SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24 HOUR PERIOD.
2. WHEN OBSERVING CONDITIONS OF DITCH CHECKS, PAY SPECIAL CONSIDERATION TO THE PRESENCE OF INDICATORS THAT WATER IS ERODING AROUND THE ENDS, UNDERCUTTING THE DITCH CHECK, OR SIGNIFICANT EROSION IS OCCURRING DOWNSTREAM OF THE DITCH CHECK. THESE ITEMS MAY INDICATE THE NEED FOR CLOSER SPACING ON DITCH CHECKS OR USE OF A DIFFERENT EROSION MAT.
3. SEDIMENT SHALL BE REMOVED FROM BEHIND THE DITCH CHECK WHEN IT REACHES ½ THE HEIGHT OF THE LOWEST ELEVATION OF THE DITCH CHECK.
4. DITCH CHECKS SHALL BE REMOVED ONCE CHANNEL IS STABILIZED WITH VEGETATION UNLESS PART OF A PERMANENT STORMWATER MANAGEMENT PLAN.
5. MAINTENANCE SHALL BE COMPLETED AS SOON AS POSSIBLE WITH CONSIDERATION FOR SITE CONDITIONS.

03 C500 DITCH CHECK

NO SCALE



MATERIAL NOTES

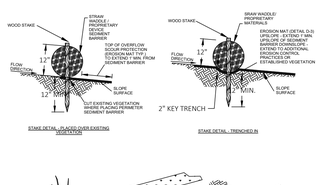
1. CHECK DAM SHALL BE CONSTRUCTED USING 6" OR LARGER CLEAR STONE

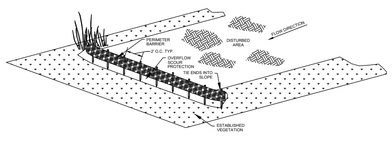
INSTALLATION NOTES

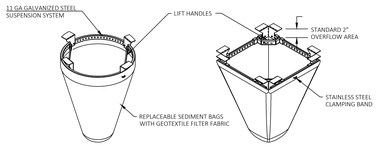
1. CHECK DAM SHALL BE INSTALLED SUCH THAT ENDS ARE HIGHER THAN THE CENTER CREATING A STABLE OVERFLOW POINT. ENDS SHOULD BE A MINIMUM OF 6" HIGHER THAN THE EXPECTED DESIGN WATER LEVEL.

04 C500 ROCK CHECK DAM

NO SCALE

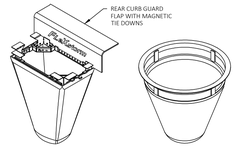






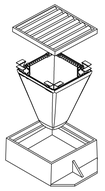
TYPICAL ROUND INLET FILTER

TYPICAL RECTANGULAR INLET FILTER



COMBINATION INLET FILTER FOR CURB HOODS

STAINLESS STEEL ROUND INLET FILTERS for NYLOPLAST CASTINGS CATCH-ITS SPECIFIED W/ FX or FX/S BAGS



1. INDENTIFY YOUR FRAME STYLE AND SIZE

STYLE	FRAME STYLE AND SIZE	Frame P/N
ROUND	Small Round (up to 20.0" dia grates (A) dim)	62SRD
	Med Round (20.1" – 26.0" dia grates (A) up to 25" dia openings (B))	62MRD
	Large Round (26.1" – 32.0" dia grates (A) up to 30" openings (B))	62LRD
	XL Round (32.1" dia – 39" dia grates (A) up to 37" dia openings (B))	62XLRD
RECT/ SQUARE	Small Rect / Square (up to 18" (B) x 16" (D) openings or 64" perimeter)	62SSQ
	Med Rect / Square (up to 26" (B) x 24" (D) openings or 96" perimeter)	62MSQ
	Large Rect / Square (up to 36" (B) x 24" (D) openings or 120" perimeter)	62LSQ
	XL Rect / Square (side by side 2 pc set to fit up to 48" (B) x 30" (D) openings)	62XLSQ
COMBO INLETS	Small Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	62SCB
	Med Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	62MCB
	Large Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	62LCB
	XL Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	62XLCB
NYLOPLAST	12" diameter/Nyloplast castings (Stainless Steel Framing standard)	6212NY
	15" diameter/Nyloplast castings (Stainless Steel Framing standard)	6215NY
	18"diameter/Nyloplast castings (Stainless Steel Framing standard)	6218NY
	24" diameter/Nyloplast castings (Stainless Steel Framing standard)	6224NY
	30" diameter/Nyloplast castings (Stainless Steel Framing standard)	6230NY

2. SELECT YOUR BAG PART NUMBER

FLEXSTORM FILTER BAGS	(22" depth) STD Bag P/N	(12" depth) Short Bag P/N	Clean Water Flow Rate (GPM/SqFt)	Min A.O.S. (US Sieve)
FX- Standard Woven Bag	FX	FX-S	200	40
IL-IDOT Non-Woven Bag	IL	IL-S	145	70

3. CREATE YOUR FLEXSTORM INLET FILTER PART NUMBER

Frame P/N from Step 1. Filter Bag P/N from Step 2.

GENERAL NOTES

1. INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.
2. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

INSTALLATION NOTES

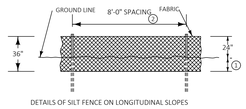
1. REMOVE GRATE.
2. DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING ON CONCRETE STRUCTURE.
3. REPLACE GRATE.

SPECIFICATIONS FOR STANDARD BAGS BY NOMINAL SIZE

Nominal Bag Size	Solids Storage (Cuft)	Filtered Flow Rate at 50% Max (CFS) FX (Woven)	IL (Non-Woven)
Small	1.6	1.2	0.9
Medium	2.1	1.7	1.3
Large	3.8	2.7	1.9
XL	4.2	3.6	2.6

05 C500 INLET PROTECTION, FRAMED (FLEXSTORM CATCH-IT)

NO SCALE

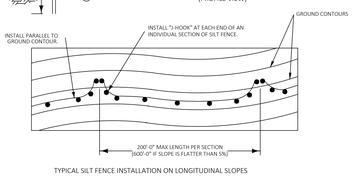


DETAILS OF SILT FENCE ON LONGITUDINAL SLOPES

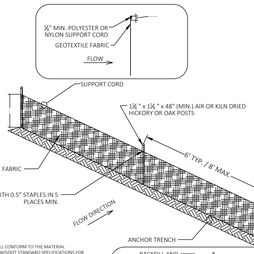
ATTACHMENT TO POST

1. INSERT 12 INCHES OF FABRIC A MINIMUM OF 6 INCHES DEEP (FABRIC MAY BE FOLDED BELOW THE GROUND LINE).
2. REDUCE POST SPACING TO 5'-0" AT WATER CONCENTRATION AREAS, OR AS REQUIRED TO ADEQUATELY SUPPORT FENCE.

TYPICAL SILT FENCE INSTALLATION ON LONGITUDINAL SLOPES (PROFILE VIEW)



TYPICAL SILT FENCE INSTALLATION ON LONGITUDINAL SLOPES (PLAN VIEW)



MATERIAL NOTES

1. GEOTEXTILE FABRIC SHALL BE WOVEN AND SHALL CONFORM TO THE MATERIAL REQUIREMENTS LISTED IN SECTION 628 OF THE WISDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, 2018 EDITION.

INSTALLATION NOTES

1. INSTALLATION SHALL CONFORM WITH THE REQUIREMENTS OF WDNR CONSERVATION PRACTICE STANDARD 1056.
2. CONSTRUCT THE SILT FENCE IN AN ARC WITH THE ENDS POINTING UPSLOPE TO AVOID EROSION AROUND THE ENDS OF THE FENCE.
3. FAILURE TO PROPERLY ANCHOR SILT FENCE COULD RESULT IN WATER AND SEDIMENT RELEASE BENEATH THE SILT FENCE.
4. CONSTRUCT THE FENCE FROM A CONTINUOUS ROLL OF GEOTEXTILE TO AVOID JOINTS. WHERE JOINTS ARE NECESSARY, OVERLAP TO THE NEXT POST OR WRAP ADJOINING FABRICS TOGETHER AROUND THE JOINT POST AND TIGHTLY FASTEN.
5. SILT FENCE SHALL NOT BE USED IN AREAS OF CONCENTRATED FLOW.
6. WHEN NOT USED IN CONJUNCTION WITH OTHER PRACTICES, INSTALL SILT FENCE PER THE SPACING REQUIREMENTS OF THE FOLLOWING TABLE.

SLOPE	FENCE SPACING
<2%	100 FEET
2-5%	75 FEET
5-10%	50 FEET
10-33%	25 FEET
>33%	20 FEET

06 C500 SILT FENCE

NO SCALE

MATERIAL NOTES

1. EROSION CONTROL REVEGETATIVE MATS (ECRM) SHALL BE WISDOT PRODUCT ACCEPTABLE LIST (PAL) APPROVED CLASS II TYPE C, UNLESS DIRECTED OTHERWISE.
2. ONLY PRODUCTS LISTED IN THE WISCONSIN DEPARTMENT OF TRANSPORTATION EROSION CONTROL PRODUCT ACCEPTABILITY LIST (PAL) ARE ACCEPTABLE FOR USE.
3. STAPLES USED FOR CLASS I TYPES A & B MATS SHALL BE 1-2 INCH WIDE, U-SHAPED, MADE OF NO.11 (3.05mm) OR LARGER DIAMETER STEEL WIRE, AND NOT LESS THAN MA
4. 6 INCHES LONG FOR FIRM SOILS AND 12 INCHES LONG FOR LOOSE SOILS.

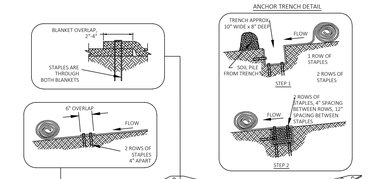
INSTALLATION NOTES

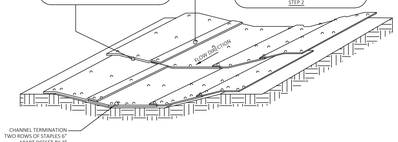
1. INSTALLATION OF ECRM SHOULD BE COORDINATED WITH PERMANENT RESTORATION PRACTICES.
2. INSTALLATION SHALL CONFORM WITH WDNR CONSERVATION PRACTICE STANDARD 1053.
3. ALL PRODUCTS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. THIS STANDARD DETAIL IS AN EXAMPLE OF TYPICAL INSTALLATION GUIDANCE.
4. MATS SHALL EXTEND UPSLOPE 2-FT VERTICALLY FROM THE DITCH BOTTOM OR 6 INCHES HIGHER THAN THE DESIGN FLOW DEPTH, WHICHEVER IS GREATER.
5. MATS SHALL BE IN FIRM AND CONTINUOUS CONTACT WITH THE SOIL.
6. WHEN POSSIBLE, AVOID PLACING SIDE-BY-SIDE LAP JOINTS IN THE BOTTOM OF CHANNELS.

INSPECTION & MAINTENANCE NOTES

1. MAT SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24 HOUR PERIOD.
2. INSTALL ADDITIONAL ANCHORING IN AREAS OF OBSERVED RILLING AND CONCENTRATED FLOW BENEATH THE EROSION MAT. IF RILLING IS SEVERE ENOUGH TO PREVENT VEGETATION ESTABLISHMENT, REMOVE EROSION MAT, REGRADE, COMPACT, RE-SEED, AND REPLACE THE SECTION OF MAT.
3. IF PRODUCTS WITH PLASTIC NETTING ARE USED, REMOVE NETTING OR REPLACE MAT IF SEPARATION OF THE NETTING FROM THE MAT IS OBSERVED.
4. ALL MAINTENANCE ACTIVITIES SHOULD OCCUR AS SOON AS POSSIBLE WITH CONSIDERATION OF SITE CONDITIONS.

ANCHOR TRENCH DETAIL



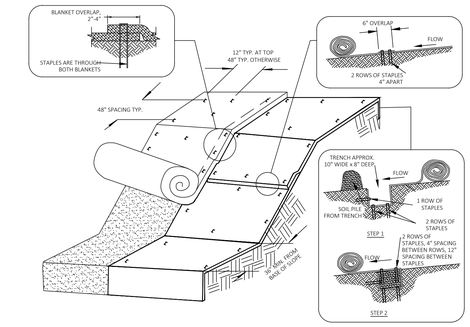


07 C500 EROSION CONTROL MAT (CHANNELS)

NO SCALE

08 C500 EROSION CONTROL MAT (SLOPES)

NO SCALE



MATERIAL NOTES

1. STAPLES USED FOR CLASS I TYPES B MATS SHALL BE 1-2 INCH WIDE, U-SHAPED, MADE OF NO.11 (3.05mm) OR LARGER DIAMETER STEEL WIRE, AND NOT LESS THAN 6 INCHES LONG FOR FIRM SOILS AND 12 INCHES LONG FOR LOOSE SOILS.
2. ANCHORING DEVICES FOR URBAN MATS SHALL BE SELECTED BASED UPON THE REQUIREMENTS OF THE WISDOT PAL.

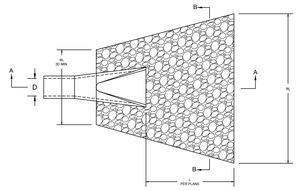
INSTALLATION NOTES

1. INSTALLATION SHALL CONFORM WITH WDNR CONSERVATION PRACTICE STANDARD 1052.
2. EROSION MAT SHALL BE IN FIRM AND CONTINUOUS CONTACT WITH THE SOIL AND EXTEND UPSLOPE ONE-FOOT FROM LAND DISTURBANCE.
3. EROSION MAT SHALL BE ANCHORED, OVERLAPPED, STAKED AND ENTRENCHED PER THE MANUFACTURER'S RECOMMENDATIONS. THIS STANDARD DETAIL IS AN EXAMPLE OF TYPICAL INSTALLATION GUIDANCE.
4. WHERE POSSIBLE, USE A SINGLE ROLL OF EROSION CONTROL MAT TO SPAN THE DISTURBED AREA.

INSPECTION & MAINTENANCE NOTES

1. AT A MINIMUM, PERFORM INSPECTIONS WEEKLY AND WITHIN 24 HOURS OF PRECIPITATION EVENTS PRODUCING 0.5 INCHES OR MORE OF RAINFALL.
2. INSTALL ADDITIONAL ANCHORING IN AREAS OF OBSERVED RILLING AND CONCENTRATED FLOW BENEATH THE EROSION MAT. IF RILLING IS SEVERE ENOUGH TO PREVENT VEGETATION ESTABLISHMENT, REMOVE EROSION MAT, REGRADE, COMPACT, RE-SEED, AND REPLACE THE SECTION OF MAT.
3. IF PRODUCTS WITH PLASTIC NETTING ARE USED, REMOVE NETTING OR REPLACE MAT IF SEPARATION OF THE NETTING FROM THE MAT IS OBSERVED.
4. ALL MAINTENANCE ACTIVITIES SHOULD OCCUR AS SOON AS POSSIBLE WITH CONSIDERATION OF SITE CONDITIONS.

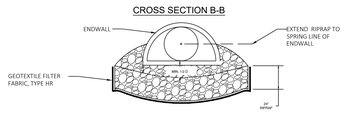
PLAN VIEW*



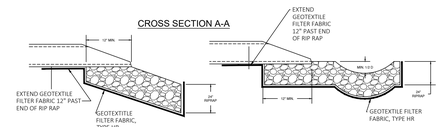
Pipe Diameter	W_1 x L x W_2 (ft)
<8	1.5 x 3 x 4
12	3 x 4 x 4
15	3.75 x 6 x 5
18	4.5 x 6 x 5
21	5.25 x 6 x 6
24	6 x 7 x 6
30	7.5 x 7 x 7.5
36	9 x 9 x 9
42	10.5 x 9 x 10

*OUTLET PROTECTION RIPRAP PAD DIMENSIONS DENOTED ON PLAN SHEETS AS W_1 x L x W_2

CROSS SECTION B-B



CROSS SECTION A-A



SLOPED POND DISCHARGE

SLOPED/FLAT SWALE DISCHARGE AND FLAT POND DISCHARGE

09 C500 RIPRAP PAD

NO SCALE

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REVISIONS

No.	Date:	Description:

Usona Institute

PROJECT
USONA INSTITUTE
USONA INSTITUTE C/O CINQUE TERRE, LLC

SHEET
EROSION CONTROL DETAILS

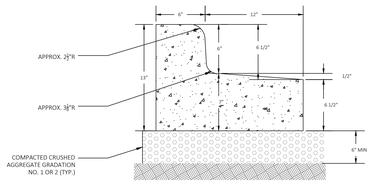
DATE
06/04/2021

PROJECT NO.
19-128

SHEET NO.
C500

P:\01514-0001 USONA\DRAWINGS\SHEETS\C500 EROSION CONTROL DETAILS.DWG

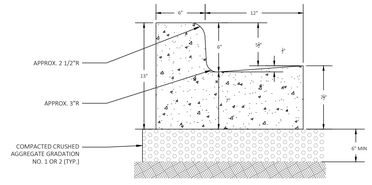
22 June 2021



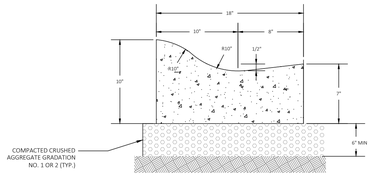
NOTES:

1. WISCONSIN DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION, INCLUDING SUPPLEMENT SPECIFICATIONS: REFER TO SECTION 501 FOR CONCRETE
2. COMPACTION REQUIREMENTS:
   -BASE COURSE: REFER TO SECTION 301.3.4.2, STANDARD COMPACTION
3. CONSTRUCTION SHALL CONFORM TO SECTION 601, CONCRETE CURB AND GUTTER
4. NOTES APPLY TO ALL CURB TYPES

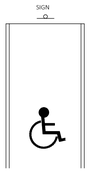
01 C501 — 18" REJECT CURB AND GUTTER



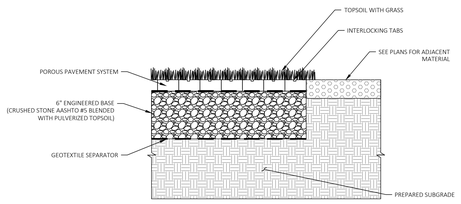
02 C501 — 18" STANDARD CURB AND GUTTER



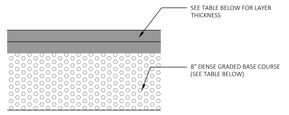
03 C501 — 18" OGEE MOUNTABLE CURB AND GUTTER



04 C501 — ACCESSIBLE PARKING



05 C501 — REINFORCED TURF

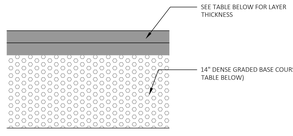


RECOMMENDED LIGHT-DUTY PAVEMENT SECTION		
MATERIAL	LAYER THICKNESS, IN.	WDOT SPECIFICATION
BITUMINOUS UPPER LAYER (SURFACE COURSE)	1.5	SECTION 460, TABLE 460-1, 9.5 mm
BITUMINOUS LOWER LAYER (BINDER COURSE)	2	SECTION 460, TABLE 460-1, 12.5 mm
DENSE GRADED BASE COURSE	8	SECTIONS 301 AND 305, 3 in AND 1-1/4 in
TOTAL THICKNESS	11.5	

NOTES:

1. WISCONSIN DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION, INCLUDING SUPPLEMENT SPECIFICATIONS, BUT EXCLUDING LIMITATIONS IN SECTION 460.3.2 RESTRICTING LAYER THICKNESS BY AGGREGATE SIZE.
2. COMPACTION REQUIREMENTS:
   -BITUMINOUS CONCRETE: REFER TO SECTION 460-3
   -BASE COURSE: REFER TO SECTION 301.3.4.2, STANDARD COMPACTION
3. MIXTURE TYPE LT (OR E-0.3) BITUMINOUS PAVEMENT IS RECOMMENDED; REFER TO SECTION 460 TABEL 460-2 OF THE STANDARD SPECIFICATIONS
4. THE UPPER 4 IN SHOULD CONSIST OF 1 ½ IN DGB; THE BOTTOM PART OF THE LAYER CAN CONSIST OF 3 IN DGB.

06 C501 — LIGHT DUTY PAVEMENT SECTION

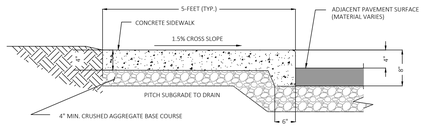


RECOMMENDED HEAVY-DUTY PAVEMENT SECTION		
MATERIAL	LAYER THICKNESS, IN.	WDOT SPECIFICATION
BITUMINOUS UPPER LAYER (SURFACE COURSE)	2	SECTION 460, TABLE 460-1, 9.5 mm
BITUMINOUS LOWER LAYER (BINDER COURSE)	2	SECTION 460, TABLE 460-1, 12.5 mm
DENSE GRADED BASE COURSE	14	SECTIONS 301 AND 305, 3 in AND 1-1/4 in
GEOGRID REINFORCING	YES	TENSAR BX1200 (OR EQUIVALENT)
TOTAL THICKNESS	18	

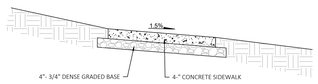
NOTES:

1. WISCONSIN DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION, INCLUDING SUPPLEMENT SPECIFICATIONS, BUT EXCLUDING LIMITATIONS IN SECTION 460.3.2 RESTRICTING LAYER THICKNESS BY AGGREGATE SIZE.
2. COMPACTION REQUIREMENTS:
   -BITUMINOUS CONCRETE: REFER TO SECTION 460-3
   -BASE COURSE: REFER TO SECTION 301.3.4.2, STANDARD COMPACTION
3. MIXTURE TYPE LT (OR E-0.3) BITUMINOUS PAVEMENT IS RECOMMENDED; REFER TO SECTION 460 TABEL 460-2 OF THE STANDARD SPECIFICATIONS
4. THE UPPER 4 IN SHOULD CONSIST OF 1 ½ IN DGB; THE BOTTOM PART OF THE LAYER CAN CONSIST OF 3 IN DGB.

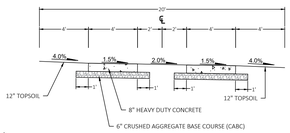
07 C501 — HEAVY DUTY PAVEMENT SECTION



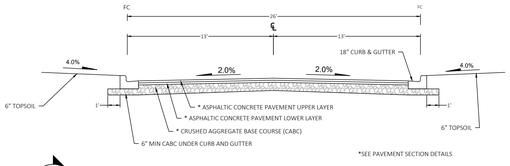
08 C501 — THICKENED EDGE CONCRETE SIDEWALK



09 C501 — CONCRETE SIDEWALK

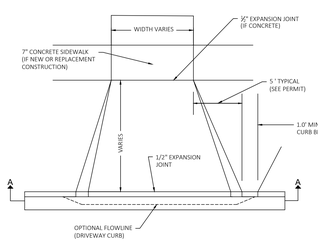


10 C501 — DUAL PATH FIRE LANE

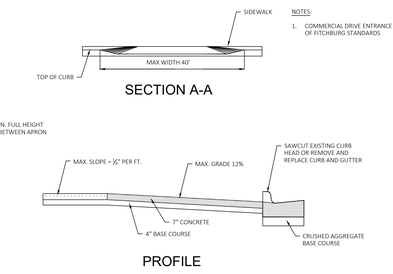


*SEE PAVEMENT SECTION DETAILS

11 C501 — PARKING DRIVE SECTION



PLAN



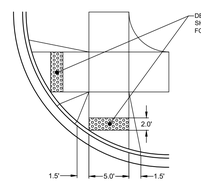
SECTION A-A

PROFILE

NOTES:

1. COMMERCIAL DRIVE ENTRANCE TO MEET CITY OF FITCHBURG STANDARDS

12 C501 — COMMERCIAL DRIVE ENTRANCE

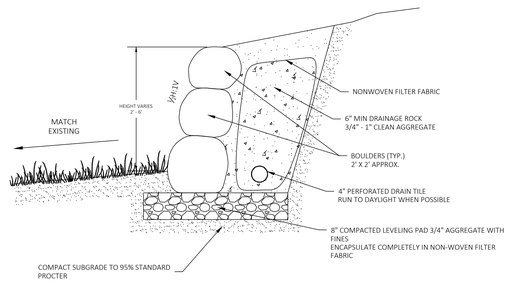


TYPE 1 RAMP
PLAN VIEW

GENERAL NOTES FOR ALL SIDEWALK RAMPS

1. Install curb cuts at sidewalk ramps with either full removal and replacement or by "sawcutting" the curb head.
2. Curb tapers at curb cuts shall be 18" unless otherwise directed by the Engineer.
3. The width of the flat bottom of the ramp at the curb shall be 60" minimum.
4. The maximum slope of the ramp between the back of the curb and the front of the detectable warning field shall not exceed 2%. The maximum slope of the ramp between the front of the detectable warning field and the sidewalk shall not exceed one inch per foot.
5. All handicap ramps shall include detectable warning fields with truncated domes.
6. Detectable warning field shall be oriented in a manner that it is parallel to the direction of pedestrian traffic. When curb is perpendicular to direction of pedestrian traffic, install detectable warning field tight to back of curb.
7. For a sidewalk ramp, detectable warnings shall be 24" x 60". For a bike path ramp, detectable warnings shall be 24" x 120".
8. When conditions require more information, refer to "UFAS" (Uniform Federal Accessibility Standards).
9. Curb ramps to meet City of Fitchburg Standards.

13 C501 — SIDEWALK CURB RAMP



14 C501 — BOULDER RETAINING WALL

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No.	Date:	Description:

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PROJECT
USONA INSTITUTE
USONA INSTITUTE C/O CINQUE TERRE, LLC

SHEET
CIVIL DETAILS

DATE
06/22/2021

PROJECT NO.
19-128

SHEET NO.
C501

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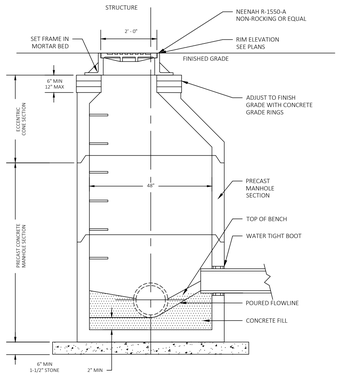
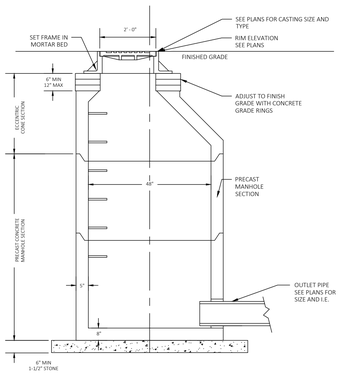
22 June 2021

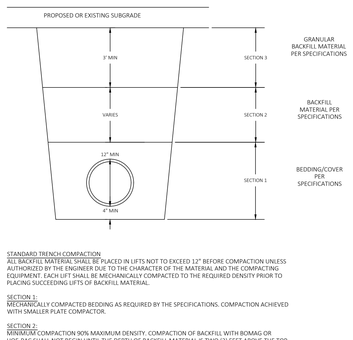


NOTES:
1. MANHOLE CONSTRUCTION TO MEET REQUIREMENTS OF ASTM C478
2. JOINTS SHALL BE WATERTIGHT. USE BUTYL RUBBER GASKET.
3. USE MORTAR FOR PIPE CONNECTIONS EXCEPT THAT AN APPROVED FLEXIBLE WATERTIGHT PIPE TO MANHOLE SEAL IS REQUIRED FOR ALL FLEXIBLE SANITARY SEWER CONNECTIONS.
4. ALL MANHOLES SHALL HAVE RUBBER CHIMNEY BOOT SEALS.

01 C502
SANITARY MANHOLE
No Scale



04 C502
CATCH BASIN
No Scale



STANDARD TRENCH COMPACTION
ALL BACKFILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 12" BEFORE COMPACTION UNLESS AUTHORIZED BY THE ENGINEER DUE TO THE CHARACTER OF THE MATERIAL AND THE COMPACTING EQUIPMENT. EACH LIFT SHALL BE MECHANICALLY COMPACTED TO THE REQUIRED DENSITY PRIOR TO PLACING SUCCEEDING LIFTS OF BACKFILL MATERIAL.

SECTION 1:
MECHANICALLY COMPACTED BEDDING AS REQUIRED BY THE SPECIFICATIONS. COMPACTION ACHIEVED WITH SMALLER PLATE COMPACTOR.

SECTION 2:
MINIMUM COMPACTION 90% MAXIMUM DENSITY. COMPACTION OF BACKFILL WITH BOMAG OR HOE-PAC SHALL NOT BEGIN UNTIL THE DEPTH OF BACKFILL MATERIAL IS TWO (2) FEET ABOVE THE TOP OF PIPE

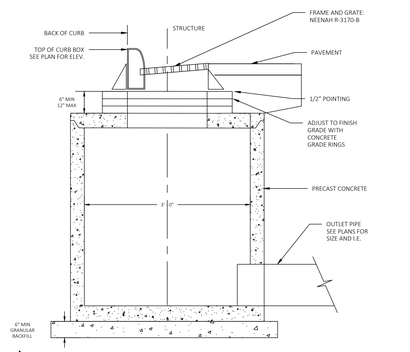
SECTION 3:
MINIMUM COMPACTION 95% MAXIMUM DENSITY

07 C502
SANITARY SEWER AND WATER MAIN TRENCH
No Scale

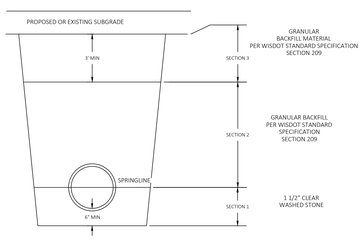
NOTES:
1. MANHOLE CONSTRUCTION TO MEET REQUIREMENTS OF ASTM C478
2. JOINTS SHALL BE WATERTIGHT. USE BUTYL RUBBER GASKET.
3. USE MORTAR FOR PIPE CONNECTIONS EXCEPT THAT AN APPROVED FLEXIBLE WATERTIGHT PIPE TO MANHOLE SEAL IS REQUIRED FOR ALL FLEXIBLE SANITARY SEWER CONNECTIONS.
4. ALL MANHOLES SHALL HAVE RUBBER CHIMNEY BOOT SEALS.

02 C502
SANITARY MANHOLE - OUTSIDE DROP
No Scale

05 C502
CHECK VALVE MANHOLE
No Scale



03 C502
STORM INLET
No Scale



STANDARD TRENCH COMPACTION
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SECTION 1:
MINIMUM COMPACTION 95% MAXIMUM DENSITY. COMPACTION OF BACKFILL WITH BOMAG OR HOE-PAC SHALL NOT BEGIN UNTIL THE DEPTH OF BACKFILL MATERIAL IS TWO (2) FEET ABOVE THE TOP OF THE PIPE

SECTION 2:
MINIMUM COMPACTION 90% MAXIMUM DENSITY.

SECTION 3:
MINIMUM COMPACTION 95% MAXIMUM DENSITY

06 C502
STORM SEWER TRENCH
No Scale

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USONA INSTITUTE
USONA INSTITUTE C/O CINQUE TERRE, LLC

SHEET
UTILITY DETAILS

DATE
06/22/2021

PROJECT NO.
19-128

SHEET NO.
C502

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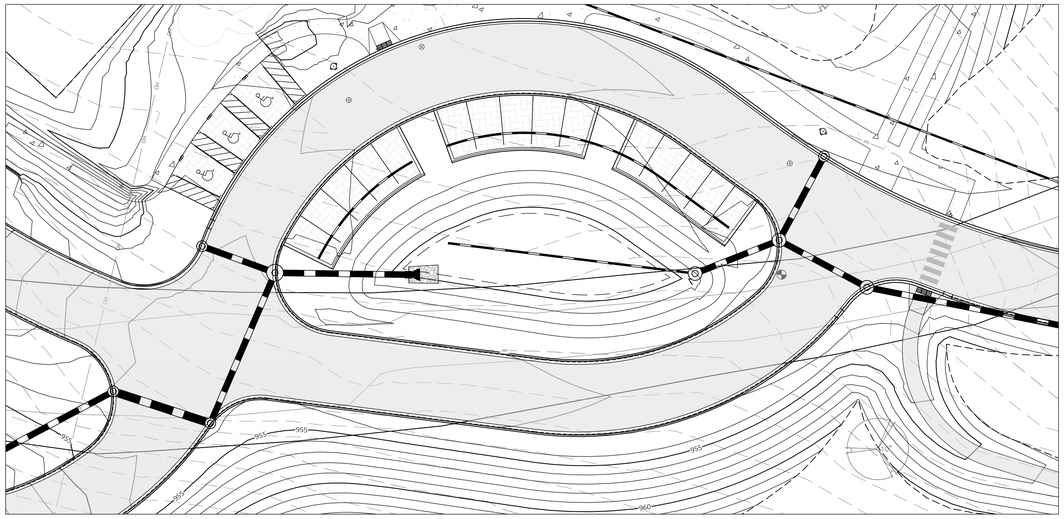
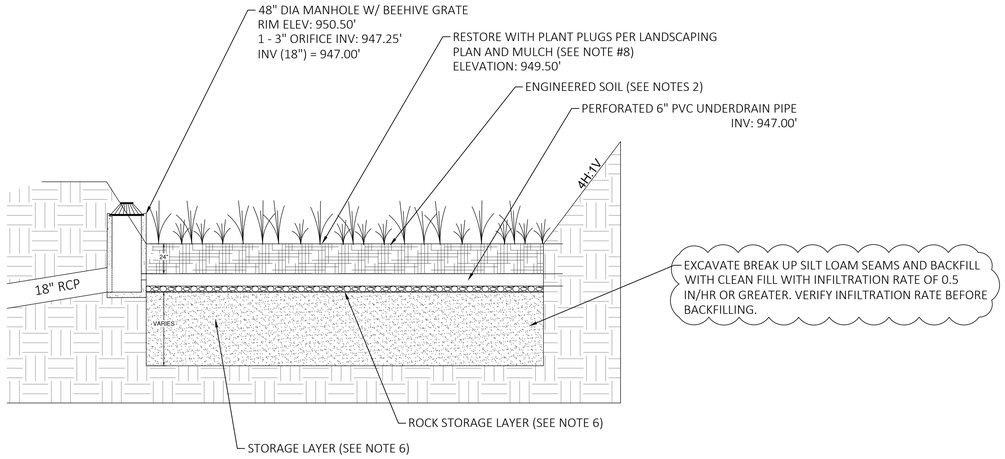
22 June 2021



01 C503

SOUTH BIORETENTION FACILITY GRADING DETAIL

1" = 20'



02 C503

SOUTH BIORETENTION FACILITY

No Scale

03 C503

NORTH BIORETENTION FACILITY GRADING DETAIL

1" = 30'

04 C503

NORTH BIORETENTION FACILITY

No Scale

05 C503

RAIN GARDEN FACILITY GRADING DETAIL

1" = 10'

06 C503

RAIN GARDEN FACILITY

No Scale

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SHEET
STORMWATER DETAILS

DATE
06/22/2021

PROJECT NO.
19-128

SHEET NO.
C503

22 June 2021

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NORTH

CONCEPT PLAN NORTH
Scale: 1"=20'-0" (24x36)
Date: June 13, 2021
Revisions:

USONA
Fitchburg, WI

Fescue Grass
Path
3 Redbud
Dry Prairie Wildflowers
8 Horizontal Juniper
Fescue Grass
Lawn
Path
Fescue Grass
Lawn
3 Witchhazel
7 Glossy Black Chokeberry
11 Pasture Rose
2 Red Chokeberry
7 Kalms St Johnswort
10 Dw Bushhoneysuckle
Outcropping Boulders
8 Leadplant
7 Early Wild Rose
2 Witchhazel
Fescue Grass
4 Red Sprite Winterberry
4 Hummingbird Clethra
2 Spicebush
3 Coralberry
1 Pagoda Dogwood
5 Cinnamon Fern
3 Serviceberry
Outcropping Boulders
3 Dw Bushhoneysuckle
5 Winterberry
4 Kalms St Johnswort
3 Pagoda Dogwood
8 Pasture Rose
Fescue Grass
Lawn
Woodland Wildflowers
Dry Prairie Wildflowers
Vegetable Gardens
Vines/Trellises
Perennials
3 Fruit Trees
4 Blue False Indigo
3 Pink Diamond Hydrangea
Gravel Path
Lawn
Japanese Maple
Flagstone Steps
Pergola
4 Ninebark
3 Whitespire Birch
White/Silver Perennials
Groundcovers
Standing Stones
Earth Well/Ornamental Iron Cover
Scupper/Channel
Boulder Terraces
Perennials
Pink Diamond Hydrangea
Gravel Path
Groundcover
Accent Boulders
1 Mapleleaf Viburnum
Pergola
3 Japanese Maples
Horizontal Stones
Decorative Gravel
3 Whitespire Birch
3 American Hornbeam

sparrow
Native Landscaping
www.sparrowlandplanning.com

Yakshi Landscape
LJ Geer Design
2948 Nell Ave, #222A
Columbus, OH 43202
606-239-8375
ljgeerdesign@gmail.com

8 Pasture Rose
Dry Prairie Wildflowers
Fescue Grass
Lawn
Path
Fescue Grass
Vegetable Gardens
Vines/Trellises
Perennials
3 Fruit Trees
4 Blue False Indigo
3 Pink Diamond Hydrangea
Gravel Path
Japanese Maple
Flagstone Steps
Pergola
4 Ninebark
3 Whitespire Birch
White/Silver Perennials
Lawn
3 Witchhazel
7 Glossy Black Chokeberry
11 Pasture Rose
2 Red Chokeberry
7 Kalms St Johnswort
10 Dw Bushhoneysuckle
Outcropping Boulders
Groundcovers
Standing Stones
Earth Well/Ornamental Iron Cover
Scupper/Channel
Boulder Terraces
Perennials
Pink Diamond Hydrangea
Gravel Path
Groundcover
Accent Boulders
1 Mapleleaf Viburnum
8 Leadplant
7 Early Wild Rose
Pergola
3 Japanese Maples
Horizontal Stones
Decorative Gravel
3 Whitespire Birch
3 American Hornbeam
3 Kousa Dogwood
Plank Bridge
Cobblestone Stream
Woodland Wildflowers/ Groundcovers
River Birch
Lawn Border
Source Spring
Standing Stones
Groundcovers
Decorative Boulders
Decorative Gravel
Kentucky Coffeetree
Redbud
Lawn
6 Honeylocust
Mesic Prairie
3 White Pine
Mesic Prairie
2 Cockspur Hawthorn
3 Bur Oak
Mesic Prairie
2 Sugar Maple
3 White Pine
4 Serviceberry
Burr Oak
Mesic Prairie
3 Cockspur Hawthorn
2 Wild Plum
10 Red Chokeberry
Mesic Prairie
2 White Pine
4 Hazelnut
6 Glossy Black Chokeberry
2 Cockspur Hawthorn
3 Shagbark Hickory
3 Black Hills Spruce
3 Hackberry
White Pine
3 Black Hills Spruce
3 Wild Plum
7 Glossy Black Chokeberry

NORTH

CONCEPT PLAN SOUTH
Scale: 1"=20'-0" (24x36)
Date: June 13, 2021
Revisions:

USONA
Fitchburg, WI

sparrow
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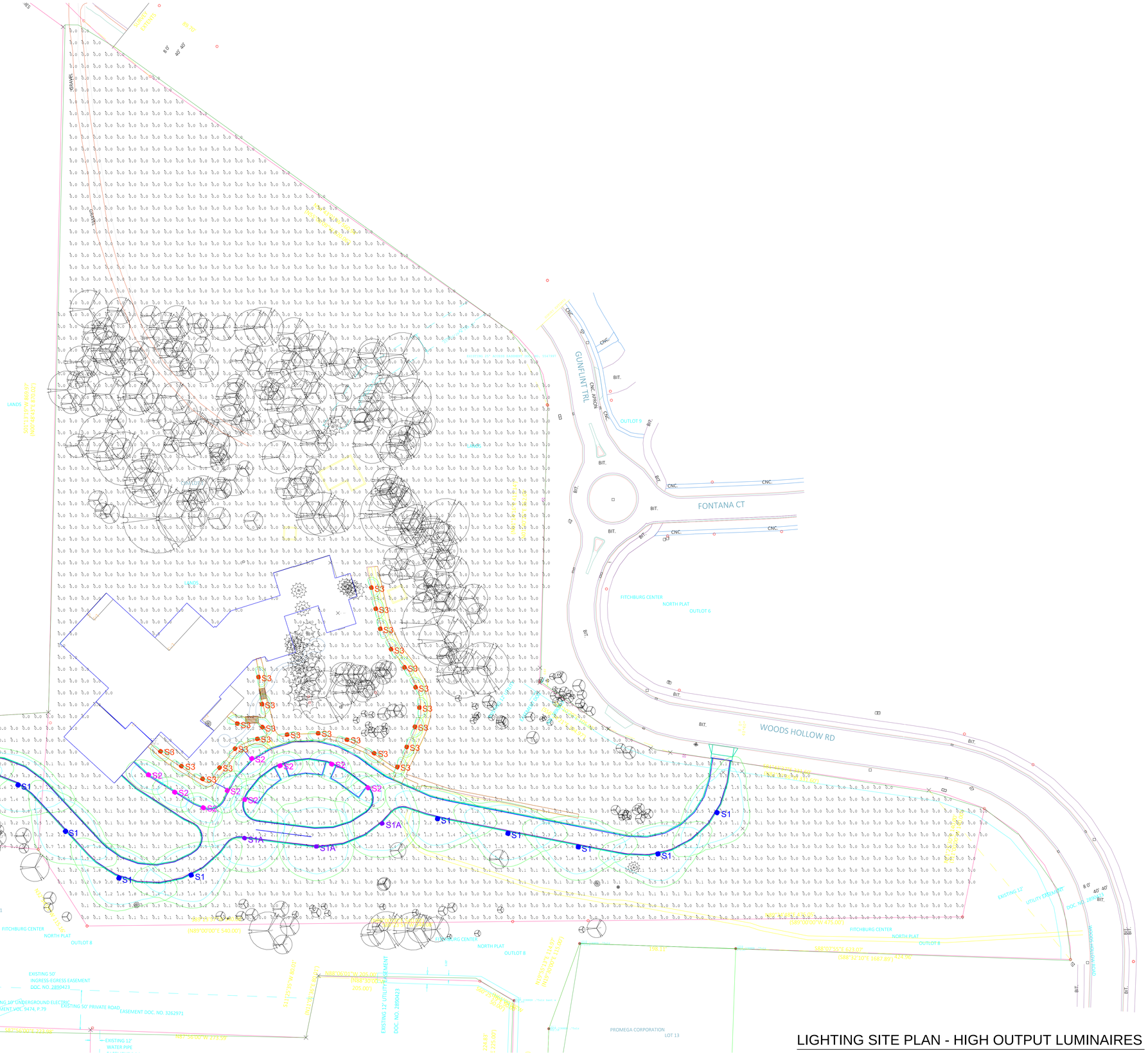
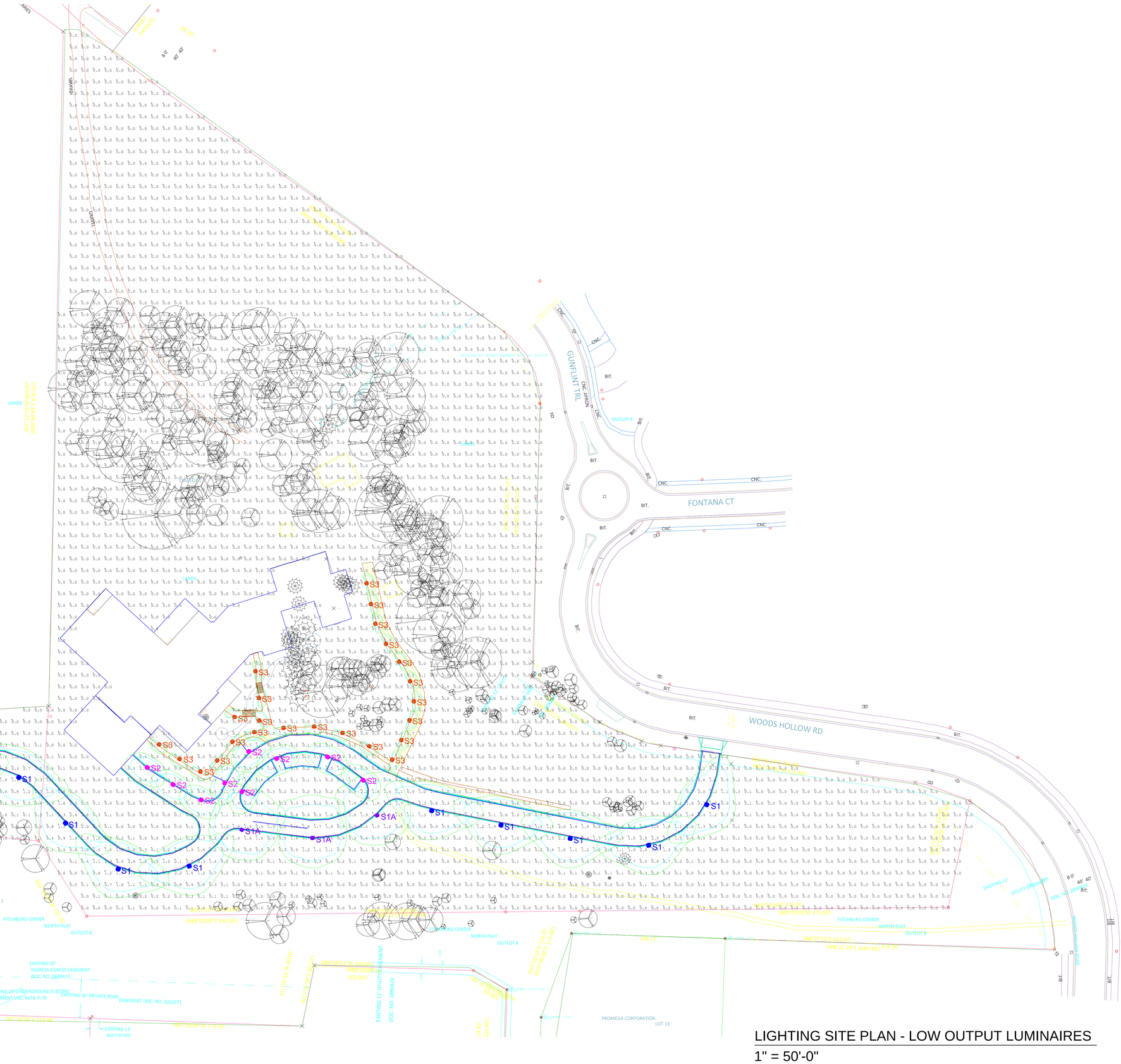
Yakshi Landscape
LJ Geer Design
2948 Neil Ave. #222A
Columbus, OH 43202
608-239-8375
ljgeerdesign@gmail.com


GUNFLINT TRL
FONTANA CT
WOODS HOLLOW RD
FITCHBURG CENTER
NORTH PLAT
OUTLOT 6
OUTLOT 8
OUTLOT 9
CSM OUTLOT 1
CSM#11858
LOT 1
LOT 13
PROMEGA CORPORATION
LANDS
EXISTING BUILDIN
EXISTING 50' INGRESS-EGRESS EASEMENT DOC. NO. 2830423
EXISTING 50' PRIVATE ROAD
EASEMENT DOC. NO. 3262971
EXISTING 12' UTILITY EASEMENT DOC. NO. 2830423
EXISTING 10' UNDERGROUND ELECTRIC EASEMENT VOL. 9474, P. 79
EXISTING 12' WATER PIPE
EXISTING 8" SANITARY SEWER
EXISTING 12" STORM SEWER
EXISTING 8" WATER MAIN
EXISTING 12" UTILITY EASEMENT DOC. NO. 2830423
EXISTING 8' UTILITY EASEMENT DOC. NO. 2889423
EXISTING 13' UTILITY EASEMENT DOC. NO. 2889423
EXISTING 8


ARIES
GRAVEL
EXTENTS
GRAVEL
S1
S2
S3
S1A
S8
LANDS
CSM OUTLOT 1
CSM#11858
LOT 1
FITCHBURG CENTER
NORTH PLAT
OUTLOT 8
EXISTING BUILDIN
GUNFLINT TRL
FONTANA CT
WOODS HOLLOW RD
OUTLOT 9
CNC.
BIT.
EXISTING 50' INGRESS-EGRESS EASEMENT DOC. NO. 2890423
EXISTING 50' PRIVATE ROAD
EASEMENT DOC. NO. 3262971
EXISTING 12' UTILITY EASEMENT DOC. NO. 2890423
EXISTING 12' UTILITY EASEMENT DOC. NO. 3269
EXISTING 12' WATER PIPE
PROMEGA CORPORATION
LOT 13
S01°13'21"W 865.97'
(N00°48'42"E 870.02')
N87°56'00"W 273.58'
S87°56'00"E 223.08'
(S88°00'00"E 540.00')
(S89°00'00"W 475.00')
S88°07'55"E 623.07'
(S88°32'10"E 1687.89')
N88°06'01"W 205.00'
(N88°30'00"E 205.00')
S01°13'21"W 80.01'
(N01°30'00"E 80.00')
N01°53'13"E 132.97'
(N01°30'00"E 135.00')
S00°16'59"W 65.00'
(S00°16'59"W 65.00')
N01°09'24"E 278.34'
(N01°30'00"E 278.00')
S00°16'59"W 65.00'
(S00°16'59"W 65.00')
S00°16'59"W 65.00'
(S00°16'59"W 65.00')
N01°53'13"E 132.97'
(N01°30'00"E 135.00')
N01°09'24"E 278.34'
(N01°30'00"E 278.00')

ARCHITECTURAL LIGHTING - LUMINAIRE SCHEDULE

LUMINAIRE TAG	DESCRIPTION	LOCATION / USE	HOUSING / TRIM FINISH	DISTRIBUTION / BEAM	MANUFACTURER	SERIES	CATALOG DESIGNATION	LAMPING	INITIAL LUMENS*	LAMP LIFE (HRS)	BALLAST / DRIVER / POWER SUPPLY	VOLTAGE	W / FIXTURE	MOUNTING	REMARKS
S1	Area pole luminaire, slim low profile, single head on 20ft high 4" square aluminum pole; BUG rating 1-0-1; Multi-level occupant responsive controls	Drive / Parking	bronze	Type II	**CREE**	**THE EDGE**	**ARE-EDG-2M-DA-08-E-UL-BZ-575-F-PML2-40K**	4000K, >70 CRI	5003	50,000 @ L75	Electronic programmable driver; 0-10V	277	46	Structural Footing in Grade	Individually fused.
S1A	Area pole luminaire, slim low profile, single head on 20ft high 4" square aluminum pole; BUG rating 1-0-1; Multi-level occupant responsive controls	Drive / Parking	bronze	Type IV	**CREE**	**THE EDGE**	**ARE-EDG-4M-DA-08-E-UL-BK-575-F-PML2-40K**	4000K, >70 CRI	5003	50,000 @ L75	Electronic programmable driver; 0-10V	277	46	Structural Footing in Grade	Individually fused.
S2	Slim profile single head on rectangular 12ft pole	Walkway	bronze	Asymmetric Wide	**BEGA**	**99072**	**99072-K27-BRZ**	2700K, >80 CRI	2088	60,000 @ L70	Electronic 0-10V dimming to <10%	277	20	Structural Footing in Grade	
S3	Slim profile rectangular 37" high bollard	Walkway	bronze	Asymmetric Wide	**BEGA**	**84220**	**84220-K27-BRZ**	2700K, >80 CRI	1475	50,000 @ L70	Electronic 0-10V dimming to <10%	277	15	Structural Footing in Grade	

GENERAL NOTES:

* DATA IS DELIVERED LUMENS PER FIXTURE UNLESS OTHERWISE NOTED

1. CATALOG NUMBERS ARE TO PROVIDE GUIDANCE ONLY AND MAY NOT BE COMPLETE. IN EVENT OF A DISCREPENCY, WRITTEN DESCRIPTIONS TAKE PRECEDENCE.
2. PROVIDE ALL COMPONENTS AND ACCESSORIES NECESSARY FOR A COMPLETE AND FUNCTIONAL SYSTEM.
3. DRIVERS/BALLASTS/POWER SUPPLIES MUST MEET WATTAGE, BALLAST FACTOR (MAX/MIN DIMMING OUTPUT), AND LAMP & CONTROLS COMPATIBILITY CRITERIA.
4. FOR LINEAR FIXTURES, REFER TO DRAWINGS FOR THE CONTINUOUS ABUTTED LENGTHS. DO NOT ALLOW NON-LIT GAPS BETWEEN FIXTURES.
5. PROVIDE FUSING OF ALL BALLASTED FIXTURES IF REQUIRED BY AUTHORITY HAVING JURISDICTION.

LED Programmable Multi-Level Options

For use with Cree Edge™ Series, 304 Series™, 228 Series™, CPY Series, OSQ™ Series, VG Series, IG Series, OSQ-HO Series, and XSPW™ Series Luminaires

Performance Summary

Adjustable High and Low Modes – High: 0 to 10V; Low: off to 9.8V
Adjustable Time Delay – 30 seconds, 1 to 30 minutes
Adjustable Cut Off Delay – none, 1 to 59 minutes, 1 to 5 hours
Adjustable Sensitivity – low, med, max, on-fix, off-fix
Adjustable Setpoint – 1 to 250 fc (11 to 2691 lux), disabled, auto
Adjustable Ramp Up and Fade Down Time – 1 to 60 seconds
Photocell – none, 1 to 250 fc (11 to 2691 lux)
Limited Warranty†: 5 years on sensor

† See http://lighting.cree.com/warranty for warranty terms

Accessories
Hand-Held Remote XA-SENSREM - For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required

Product Description

The Cree® programmable multi-level (PML/PML2) option allows for the programming of multiple operating drive currents/input powers for high and low modes remotely through the use of a programmable handheld remote (XA-SENSREM). The drive currents/input powers are conveniently selected to balance LED life, lumen output and energy savings. Multi-level function is designed with all LEDs operating at the same current for maximum and uniform LED life.

The occupancy sensor used in the Cree programmable multi-level option uses passive infrared technology that reacts to changes in infrared energy (moving heat) within the coverage area. During operation if motion is detected within the sensor's coverage area, the relay in the sensor closes and the lighting load is automatically turned on to the selected High Mode setting. When motion is no longer detected for the duration of the Time Delay setting, the relay opens and the lighting load automatically reverts to the selected Low Mode setting and will eventually turn off if programmed to do so. The occupancy sensor includes field-adjustable settings for ambient light (Setpoint and Photocell), motion detection (Time Delay and Cut Off Delay), Sensitivity, Ramp Up Time, Fade Down Time, High and Low Mode – all of which can be changed in the field with the programmable handheld remote.

The **High Mode** feature is fully adjustable from 0 to 10V and is **factory set at 10V,** the maximum drive current for the selected luminaire.

The **Low Mode** feature can be adjusted from an off position to 9.8V. This feature is **factory set at 1V.**

The **Time Delay** feature can be adjusted from 30 seconds, or 1 to 30 minutes and is **factory set at 5 minutes.** The luminaire will switch to the Low Mode setting if no motion is detected by the sensor for the specified time interval.

The **Cut Off Delay** feature can be set to disabled (fixture never turns off, unless Low Mode is set to off) or set to a period from 1 minute up to 5 hours. The **factory setting is 1 hour.** This feature allows the luminaire to switch from Low Mode to off after no motion is detected by the sensor for the specified duration of time.

The **Sensitivity** feature can be set to low, medium or maximum and is **factory set for maximum sensitivity** to motion within the coverage area of the sensor. In addition, there are the "on-fix" and "off-fix" modes, which will force the luminaire to stay on at the High Mode setting or off, respectively. When in either of these modes, motion detection and ambient light sensing functionality are disabled. These two modes are typically only used for troubleshooting.

The **Setpoint** feature is **factory set at disabled.** The Setpoint feature can be adjusted from 1 to 250 fc (11 to 2691 lux). When a numerical value is entered, the sensor will not transition to High Mode from motion if the light level is greater than the Set Point. Otherwise, if the light level is less than the Setpoint, motion will switch the luminaire to High Mode. If Low Mode is set to off or if the Cut Off Delay feature is enabled, then the luminaire will turn off and stay off until the light level falls below the Setpoint. There is also an auto option which is designed to automatically calibrate an appropriate Setpoint value based on the contribution of the luminaire's own light by a process in which the controlled load is turned on for two minutes to warm up the lamp and is then switched off and on eight times. Settings will vary based on application.

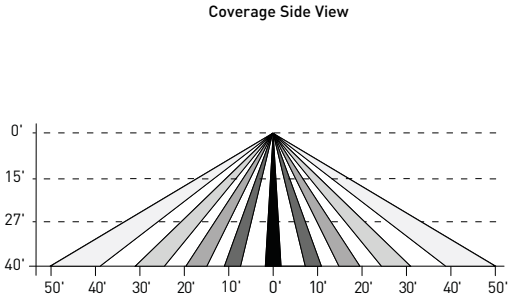
The **Ramp Up and Fade Down Time** features are **factory set at none** which means that the lights will switch from Low Mode to High Mode or from High Mode to Low Mode instantly. This feature may be adjusted from 1 to 60 seconds.

The **Photocell** (Off with Occupancy) feature is **factory set at disabled.** This feature may be adjusted from 1 to 250 fc (11 to 2691 lux). When this feature is enabled, if the light level is greater than the programmed value, the luminaire will remain off regardless of motion. When this setting is used in combination with the Setpoint feature, there must be at least 10fc (108 lux) of dead band between the two settings to help avoid load cycling. If the luminaire is off, it will turn on in High Mode when the light level decreases below the Setpoint value. If the luminaire is on and the light level is lower than the Photocell value but higher than the Setpoint value, then the luminaire will switch to Low Mode and the sensor will not transition to High Mode from motion.

Rev. Date: V7 10/10/2018

US: lighting.cree.com T (800) 236-6800 F (262) 504-5415 **Canada: www.cree.com/canada** T (800) 473-1234 F (800) 890-7507

Figure 1 – Cree Edge™ Area/Flood, OSQ™ Series Area/Flood, and OSQ-HO Area/Flood Luminaires



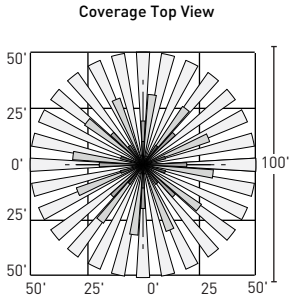
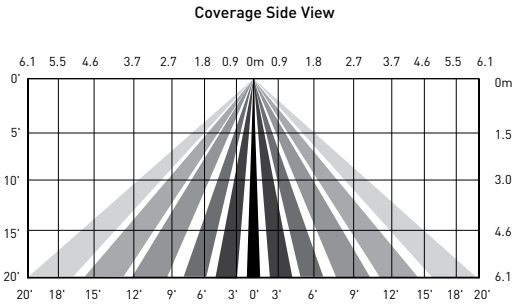


Figure 2 – Cree Edge™ Area/Flood and OSQ™ Area/Flood Luminaires, and Cree Edge™ Canopy, 304 Series™ Canopy, 228 Series™ Canopy, CPY250® Canopy/Soffit, and XSPW™ Version B Wall Mount Luminaires



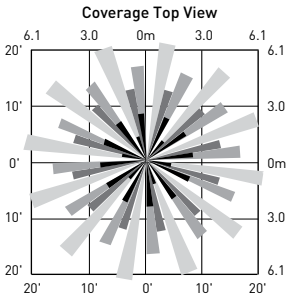
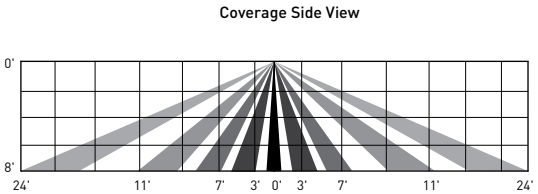
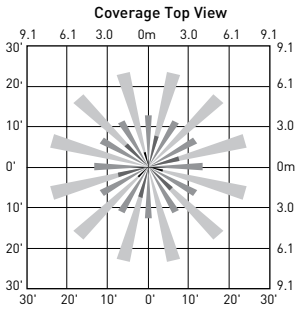


Figure 3 – Cree Edge™ Parking Structure, 304 Series™ Parking Structure, VG Series Vehicle Garage, and IG Series Parking Structure Luminaires





LED Programmable Multi-Level Options

Sensor Details			
Figure	Luminaire	PML Option	Coverage Area
1	Cree Edge Area/Flood, OSQ Series Area/Flood, OSQ-HO Area/Flood Luminaires	PML	**Lens coverage:** 40' (12.2m) optimal mounting height and 100' (30.5m) diameter coverage with a 360° circular pattern. The maximum mounting height is 40' (12.2m). Lens mounting height to coverage radius is 1:0.80. **Note:** When mounting height are above 30' (9.1m), the sensor only detects large objects such as fork lift trucks or cars.
2	Cree Edge Canopy, 304 Series Recessed Canopy, 228 Series Recessed Canopy, CPY250 Canopy/Soffit, XSPW™ Version B Wall Mount Luminaires	PML	**Lens coverage:** 20' (6.1m) optimal mounting height and 40' (12.2m) diameter coverage area with a 360° circular pattern. The minimum and maximum mounting heights are 10' (3.0m) and 30' (9.1m) respectively. Lens mounting height to coverage radius ratio is 1:1.
	Cree Edge Area/Flood, OSQ Series Area/Flood Luminaires	PML2	
3	Cree Edge Parking Structure, Cree Edge Security, 304 Series Parking Structure, VG Series Vehicle Garage, IG Series Parking Structure Luminaires	PML	**Lens coverage:** 10' (3.0m) optimal mounting height and 50' (15.2m) diameter coverage area with a 360° circular pattern. The maximum mounting height is 15' (4.6m). Lens mounting height to coverage radius is 1:2.5.

Product Availability											
Drive Current	Voltage	Cree Edge™ Series Luminaires			304 Series™						228 Series™
		Area	Canopy	Security	Parking Structure	Recessed Canopy	Upgrade Kits	Flood	Soffit (Non-IC only)	Interior (Non-IC only)	Recessed Canopy
350mA	120-277V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	347-480V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
525mA	120-277V	80-160 LED[F, P, R]	80-160 LED[F, P, R]	80 LED[F]	N/A	N/A	40-60 LED	N/A	60 LED[F]	60 LED[F]	N/A
	347-480V	80-120 LED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
700mA	120-277V	20-60 LED[F, P, R]	40-60 LED[F,P,R]	20-60 LED[F]	40-60 LED[F]	40-60 LED[F]	N/A	40-60 LED[F]	40 LED[F]	40 LED[F]	90 LED
	347-480V	20-60 LED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1000mA	120-277V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	347-480V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

F - PML option available with Fusing option
P - PML option available with Photocell option
R - PML option available with NEMA® Photocell Receptacle option

Product Availability						
Voltage	CPY Series	VG Series	OSQ Series	IG Series	OSQ-HO Series	XSPW-B Series
	Canopy/Soffit	Vehicle Garage	Area/Flood	Parking Structure	Area/Flood	Wall Mount
UL	Version B - A, B, C, E & F Input Power Designators	Version A and Version B	A, B, J, K, S, T & U Input Power Designators[F,R]	A & J Input Power Designators	40L & 50L Lumen Packages	All Lumen Packages[3]
UH, 34, 48	N/A	Version A[1] and Version B[2]	B, K, T & U Input Power Designators[F]	A & J Input Power Designators[2]	40L & 50L Lumen Packages	N/A

F - PML option available with Fusing option
R - PML option available with NEMA® Photocell Receptacle option
1 - Must specify 34 (347V) or 48 (480V)
2 - Available with 34 (347V) only
3 - May not be used with other options

PML High & Low Mode Multipliers – 525mA Drive Current

For use with Cree Edge Canopy Luminaires and 304 Series Parking Structure and Canopy Luminaires

0-10V	Drive Current (mA)	System Watts Multiplier	Lumen Multiplier
</= 1.3	75	0.15	0.15
2.1	125	0.26	0.27
2.5	150	0.31	0.31
2.8	175	0.36	0.37
3.6	225	0.45	0.45
4.4	275	0.55	0.53
5.1	325	0.64	0.62
5.5	350	0.67	0.70
6.7	425	0.83	0.80
7.5	475	0.92	0.89
≥ 8.7	525	1.00	1.00

PML High & Low Mode Multipliers – 700mA Drive Current

For use with Cree Edge Canopy Luminaires, 304 Series Parking Structure and Recessed Canopy Luminaires and 228 Series Recessed Canopy Luminaires

0-10V	Drive Current (mA)	System Watts Multiplier	Lumen Multiplier
</= 1.2	75	0.11	0.12
1.7	125	0.19	0.21
2.0	150	0.23	0.25
2.3	175	0.26	0.29
2.8	225	0.32	0.35
3.4	275	0.40	0.42
4.0	325	0.47	0.49
4.2	350	0.50	0.56
5.1	425	0.62	0.63
5.6	475	0.68	0.70
6.2	525	0.76	0.79
6.5	550	0.80	0.80
6.8	575	0.83	0.84
7.3	625	0.90	0.91
≥ 8.4	700	1.00	1.00

PML High & Low Mode Multipliers – CPY Series
For use with Version B CPY250® Canopy/Soffit Luminaires with A, B, C, E & F Input Power Designators and UL voltage

CPY Series Version B – Input Power Designator A		
0-10V	120-277V	
	System Watts Multiplier	Lumen Multiplier
</= 1.0	0.10	0.09
1.6	0.17	0.17
1.9	0.22	0.21
2.2	0.25	0.25
2.8	0.32	0.32
3.4	0.40	0.39
3.9	0.47	0.44
4.2	0.50	0.48
5.1	0.62	0.59
5.7	0.70	0.67
6.3	0.78	0.75
6.6	0.82	0.79
6.9	0.87	0.83
7.5	0.95	0.93
10.0	1.00	1.00

CPY Series Version B – Input Power Designator B		
0-10V	120-277V	
	System Watts Multiplier	Lumen Multiplier
</= 1.1	0.13	0.14
1.6	0.19	0.20
2.0	0.24	0.26
2.3	0.29	0.31
2.9	0.38	0.40
3.0	0.40	0.42
3.4	0.46	0.49
3.8	0.50	0.53
4.2	0.58	0.61
5.2	0.74	0.77
5.8	0.83	0.85
6.4	0.93	0.93
>/= 6.9	1.00	1.00

CPY Series Version B – Input Power Designator C		
0-10V	120-277V	
	System Watts Multiplier	Lumen Multiplier
</= 1.0	0.19	0.17
1.3	0.26	0.21
1.8	0.32	0.29
2.1	0.35	0.34
2.5	0.42	0.40
2.6	0.45	0.42
3.0	0.52	0.48
3.3	0.55	0.53
3.7	0.61	0.59
4.2	0.68	0.67
5.2	0.84	0.82
5.3	0.87	0.84
5.8	0.94	0.91
>/= 6.5	1.00	1.00

PML High & Low Mode Multipliers – CPY Series
For use with Version B CPY250® Canopy/Soffit Luminaires with A, B, C, E & F Input Power Designators and UL voltage

CPY Series Version B – Input Power Designator E		
0-10V	120-277V	
	System Watts Multiplier	Lumen Multiplier
</= 1.0	0.10	0.11
1.6	0.16	0.17
1.9	0.20	0.21
2.2	0.23	0.24
2.8	0.32	0.33
3.4	0.40	0.42
3.9	0.46	0.48
4.2	0.50	0.52
5.1	0.62	0.65
5.7	0.69	0.72
6.3	0.79	0.80
6.6	0.82	0.84
6.9	0.85	0.85
7.5	0.94	0.95
>/= 8.0	1.00	1.00

CPY Series Version B – Input Power Designator F		
0-10V	120-277V	
	System Watts Multiplier	Lumen Multiplier
</= 1.0	0.14	0.14
1.3	0.16	0.17
1.6	0.21	0.22
1.8	0.25	0.25
2.1	0.29	0.30
2.6	0.36	0.38
3.0	0.44	0.44
3.3	0.47	0.48
3.7	0.56	0.58
4.2	0.64	0.64
5.2	0.80	0.80
5.3	0.84	0.84
5.8	0.91	0.90
>/= 6.5	1.00	1.00

PML/PML2 High & Low Mode Multipliers – OSQ Series
For use with OSQ™ Luminaires with A, J & S Input Power Designators and UL voltage

OSQ Series – A, J & S Input Power Designators		
0-10V	120-277V	
	System Watts Multiplier	Lumen Multiplier
</= 1.1	0.12	0.15
1.6	0.18	0.24
2.0	0.22	0.30
2.2	0.27	0.35
2.9	0.34	0.43
3.5	0.41	0.51
4.0	0.48	0.59
4.2	0.50	0.61
4.7	0.57	0.68
5.4	0.64	0.73
5.8	0.71	0.80
6.3	0.78	0.85
7.2	0.85	0.91
7.4	0.90	0.94
7.7	0.95	0.98
10.0	1.00	1.00

PML/PML2 High & Low Mode Multipliers – OSQ Series
For use with OSQ™ Luminaires with B, K & T Input Power Designators with UL and UH voltages

OSQ Series – B, K & T Input Power Designators		
0-10V	120-480V	
	System Watts Multiplier	Lumen Multiplier
</= 0.7	0.15	0.13
1.3	0.17	0.19
1.6	0.22	0.24
1.8	0.25	0.28
2.1	0.31	0.33
2.5	0.38	0.40
2.6	0.40	0.42
3.0	0.46	0.48
3.3	0.50	0.53
3.7	0.58	0.59
3.9	0.61	0.63
4.2	0.68	0.67
4.6	0.71	0.74
5.3	0.84	0.84
5.5	0.90	0.87
5.9	0.91	0.91
6.4	0.99	0.98
>/= 6.5	1.00	1.00

PML/PML2 High & Low Mode Multipliers – OSQ Series
For use with OSQ™ Luminaires with U Input Power Designator with UL and UH voltages

OSQ Series – U Input Power Designator		
0-10V	120-480V	
	System Watts Multiplier	Lumen Multiplier
</= 1.0	0.09	0.12
1.3	0.10	0.14
1.8	0.16	0.21
2.1	0.20	0.26
2.4	0.25	0.30
2.6	0.27	0.33
3.0	0.32	0.39
3.3	0.36	0.44
3.5	0.39	0.46
3.9	0.44	0.52
4.0	0.45	0.53
4.2	0.48	0.56
4.6	0.53	0.61
5.1	0.60	0.68
5.3	0.62	0.70
5.8	0.69	0.76
5.9	0.71	0.77
6.3	0.75	0.82
6.5	0.80	0.84
6.9	0.83	0.88
7.2	0.89	0.92
7.7	0.96	0.96
10.0	1.00	1.00

PML High & Low Mode Multipliers – VG-A Series
For use with VG Series Luminaires with A Input Power Designator and UL, 34 or 48 voltages

VG-A Series Luminaires		
0-10V	120-277V, 347V, 480V	
	System Watts Multiplier	Lumen Multiplier
</= 0.8	0.15	0.12
1.3	0.19	0.17
1.7	0.23	0.23
2.0	0.27	0.27
2.4	0.31	0.33
2.7	0.35	0.39
3.2	0.41	0.45
3.7	0.46	0.52
4.4	0.55	0.60
5.1	0.64	0.68
5.7	0.72	0.76
6.5	0.82	0.86
7.1	0.90	0.91
10.0	1.00	1.00

PML High & Low Mode Multipliers – VG-B Series
For use with VG Series Luminaires with all lumen packages and UL or 34 voltages

VG-B Series Luminaires		
0-10V	120-277V, 347V	
	System Watts Multiplier	Lumen Multiplier
1.0	0.09	0.11
2.0	0.21	0.25
3.0	0.33	0.39
4.0	0.47	0.51
5.0	0.60	0.63
6.0	0.72	0.75
7.0	0.85	0.87
10.0	1.00	1.00

PML High & Low Mode Multipliers – IG Series

For use with IG Series Luminaires with A & J Input Power Designators and UL or 34 voltages

IG Series Luminaires		
0-10V	**120-347V**	
	System Watts Multiplier	**Lumen Multiplier**
</= 0.8	0.17	0.14
1.3	0.19	0.17
1.7	0.24	0.22
2.0	0.27	0.26
2.4	0.32	0.35
2.7	0.36	0.44
3.2	0.42	0.51
3.7	0.47	0.55
4.4	0.56	0.67
5.1	0.65	0.75
5.7	0.73	0.83
6.5	0.83	0.86
7.1	0.90	0.90
10.0	1.00	1.00

PML High & Low Mode Multipliers – OSQ-HO Series

For use with OSQ-HO Luminaires with 40L & 50L Lumen Packages and UL & UH voltages

OSQ-HO Area Luminaires – 40L/50L		
0-10V	**120-480V**	
	System Watts Multiplier	**Lumen Multiplier**
</= 1.0	0.11	0.13
1.7	0.17	0.20
2.1	0.21	0.25
2.4	0.25	0.30
3.0	0.32	0.39
3.5	0.39	0.46
3.9	0.44	0.51
4.2	0.49	0.56
4.8	0.55	0.63
5.3	0.62	0.70
5.8	0.70	0.76
6.3	0.77	0.82
6.9	0.85	0.89
7.2	0.90	0.92
7.6	0.95	0.96
>/= 8.0	1.00	1.00

PML High & Low Mode Multipliers – XSPW-B Series
For use with XSPW-B Series Luminaires with all lumen packages and UL voltage

XSPW-B Series Luminaires									
Lumen Package	0-10V Dim Setting	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
		Lumen Multiplier	Power Multiplier	Lumen Multiplier	Power Multiplier	Lumen Multiplier	Power Multiplier	Lumen Multiplier	Power Multiplier
2L	10.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	9.0	0.91	0.90	0.86	0.89	0.92	0.88	0.86	0.89
	7.6	0.77	0.80	0.74	0.79	0.78	0.79	0.73	0.79
	6.3	0.65	0.65	0.61	0.68	0.64	0.67	0.61	0.63
	5.0	0.51	0.55	0.49	0.53	0.50	0.54	0.49	0.53
	3.7	0.38	0.40	0.36	0.42	0.35	0.42	0.36	0.42
	2.3	0.24	0.30	0.22	0.32	0.18	0.29	0.22	0.26
	1.0	0.20	0.30	0.20	0.32	0.10	0.25	0.20	0.32
4L	10.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	9.0	0.91	0.91	0.89	0.94	0.91	0.90	0.89	0.90
	7.6	0.78	0.79	0.77	0.81	0.78	0.78	0.76	0.77
	6.3	0.66	0.67	0.65	0.68	0.64	0.68	0.63	0.65
	5.0	0.53	0.55	0.52	0.55	0.50	0.55	0.65	0.55
	3.7	0.40	0.42	0.39	0.42	0.34	0.43	0.38	0.42
	2.3	0.25	0.27	0.24	0.29	0.16	0.28	0.24	0.29
	1.0	0.12	0.18	0.12	0.19	0.08	0.15	0.12	0.19
6L	10.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	9.0	0.92	0.88	0.85	0.91	0.94	0.92	0.86	0.89
	7.6	0.80	0.75	0.74	0.79	0.84	0.78	0.74	0.77
	6.3	0.68	0.65	0.63	0.68	0.73	0.68	0.63	0.66
	5.0	0.55	0.53	0.51	0.55	0.61	0.55	0.51	0.55
	3.7	0.42	0.41	0.39	0.43	0.46	0.43	0.39	0.43
	2.3	0.26	0.27	0.25	0.30	0.29	0.28	0.24	0.28
	1.0	0.12	0.16	0.11	0.15	0.10	0.15	0.11	0.15
8L	10.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	9.0	0.91	0.90	0.87	0.92	0.97	0.90	0.86	0.90
	7.6	0.79	0.77	0.76	0.78	0.89	0.77	0.75	0.77
	6.3	0.68	0.64	0.65	0.65	0.79	0.64	0.64	0.65
	5.0	0.56	0.52	0.54	0.53	0.67	0.53	0.53	0.52
	3.7	0.43	0.40	0.41	0.40	0.52	0.40	0.41	0.41
	2.3	0.28	0.26	0.27	0.26	0.33	0.27	0.26	0.27
	1.0	0.12	0.13	0.12	0.14	0.13	0.13	0.12	0.14

CA RESIDENTS WARNING: Cancer and Reproductive Harm – www.p65warnings.ca.gov

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US: lighting.cree.com T (800) 236-6800 F (262) 504-5415 **Canada: www.cree.com/canada** T (800) 473-1234 F (800) 890-7507

THE EDGE® Series

LED Area/Flood Luminaire

Rev. Date: V10 10/22/2020

Product Description

THE EDGE® Series has a slim, low profile design. Its rugged cast aluminum housing minimizes wind load requirements and features an integral, weathertight LED driver compartment and high performance aluminum heat sinks. Various mounting choices: Adjustable Arm, Direct Arm, Direct Arm Long, or Side Arm (details on page 2). Includes a leaf/debris guard.

Applications: Parking lots, walkways, campuses, car dealerships, office complexes, and internal roadways

Performance Summary

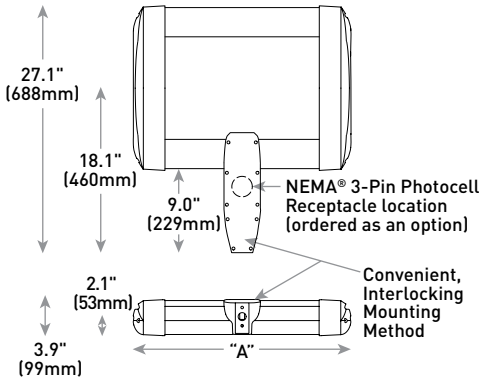
- Patented NanoOptic® Product Technology
- Assembled in the U.S.A. of U.S. and imported parts
- **CRI:** Minimum 70 CRI
- **CCT:** 4000K (+/- 300K), 5700K (+/- 500K) standard
- **Limited Warranty†:** 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

†See http://creelighting.com/warranty for warranty terms

Accessories

Field-Installed	
Bird Spikes XA-BRDSPK **Hand-Held Remote** XA-SENSREM - For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required	**Backlight Control Shields** XA-20BLS-4 - Four-pack - Unpainted stainless steel **Shorting Cap** XA-XSLSHRT

DA Mount



LED Count (x10)	Dim. "A"	Weight
02	12.1" (306mm)	21 lbs. (10kg)
04	12.1" (306mm)	24 lbs. (11kg)
06	14.1" (357mm)	27 lbs. (12kg)
08	16.1" (408mm)	28 lbs. (13kg)
10	18.1" (459mm)	32 lbs. (15kg)
12	20.1" (510mm)	34 lbs. (15kg)
14	22.1" (560mm)	37 lbs. (17kg)
16	24.1" (611mm)	41 lbs. (19kg)

AA/DL/SA Mount - see page 22 for weight & dimensions

Ordering Information

Example: ARE-EDG-2M-AA-12-E-UL-SV-350

					E				
Product	**Optic**			**Mounting***	**LED Count (x10)**	**Series**	**Voltage**	**Color Options**	**Drive Current**	**Options**
ARE-EDG	**2M** Type II Medium **2MB** Type II Medium w/BLS **2MP** Type II Medium w/Partial BLS **3M** Type III Medium	**3MB** Type III Medium w/BLS **3MP** Type III Medium w/Partial BLS **4M** Type IV Medium **4MB** Type IV Medium w/BLS	**4MP** Type IV Medium w/Partial BLS **5M** Type V Medium **5S** Type V Short	**AA** Adjustable Arm **DA** Direct Arm **DL** Direct Long Arm	**02** **04** **06** **08** **10** **12** **14** **16**	**E**	**UL** Universal 120-277V **UH** Universal 347-480V	**BK** Black **BZ** Bronze **SV** Silver **WH** White	**350** 350mA **525** 525mA **700** 700mA - Available with 20-60 LEDs	**DIM 0-10V Dimming** - Control by others - Refer to Dimming spec sheet for details - Can't exceed specified drive current - Not available with PML options **F Fuse** - Compatible only with 120V, 277V or 347V (phase to neutral) - Consult factory if fusing is required for 208V, 240V or 480V (phase to phase) - Refer to PML spec sheet for availability with PML options - When code dictates fusing, use time delay fuse **HL Hi/Low (Dual Circuit Input)** - Refer to HL spec sheet for details - Sensor not included **P Photocell** - Refer to PML spec sheet for availability with PML options - Available with UL voltage only **PML Programmable Multi-Level, 20-40' Mounting Height** - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt **PML2 Programmable Multi-Level, 10-30' Mounting Height** - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt **R NEMA® 3-Pin Photocell Receptacle** - 3-pin receptacle per ANSI C136.10 - Not available with SA mount - Intended for downlight applications with maximum 45° tilt - Requires photocell or shorting cap by others - Refer to PML spec sheet for availability with PML options **40K 4000K Color Temperature** - Minimum 70 CRI - Color temperature per luminaire **TRL Amber Turtle Friendly LEDs** - Available only with 350mA - Lumen multiplier from 5700K: 0.32 (350mA) - Power multiplier: 0.76 - 600nm dominant wavelength - Additional shielding (by others) may be required for Florida Fish and Wildlife Conservation Commission compliance
FLD-EDG	**25** 25° Flood **40** 40° Flood	**70** 70° Flood **SN** Sign	**N6** NEMA® 6	**AA** Adjustable Arm **SA** Side Arm - Available with 20-60 LEDs						

* Reference EPA and pole configuration suitability data beginning on page 19

US: creelighting.com (800) 236-6800
Canada: creelighting-canada.com (800) 473-1234

CREE LIGHTING

Product Specifications

CONSTRUCTION & MATERIALS

- Slim, low profile, minimizing wind load requirements
- Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartment and high performance heat sinks
- DA and DL mount utilizes convenient interlocking mounting method. Mounting is rugged die cast aluminum, mounts to 3-6" (76-152mm) square or round pole and secures to pole with 5/16-18 UNC bolts spaced on 2" (51mm) centers
- AA and SA mounts are rugged die cast aluminum and mount to 2" (51mm) IP, 2.375" (60mm) O.D. tenons
- Includes leaf/debris guard
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver, and white are available
- **Weight:** See Dimensions and Weight Charts on pages 1 and 22

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- DA and DL mounts designed with integral weathertight electrical box with terminal strips (12Ga–20Ga) for easy power hookup
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- **Maximum 10V Source Current:** 20 LED (350mA): 10mA; 20 LED (525 & 700mA) and 40-80 LED: 0.15mA; 100-160 LED: 0.30mA

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without P or R options
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards when ordered with AA, DA and DL mounts
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- DLC qualified with select SKUs. Refer to https://www.designlights.org/search/ for most current information
- Meets Buy American requirements within ARRA
- **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Electrical Data*

LED Count (x10)	System Watts 120-480V	Total Current (A)					
		120V	208V	240V	277V	347V	480V
350mA							
02	25	0.21	0.13	0.11	0.10	0.08	0.07
04	46	0.36	0.23	0.21	0.20	0.15	0.12
06	66	0.52	0.31	0.28	0.26	0.20	0.15
08	90	0.75	0.44	0.38	0.34	0.26	0.20
10	110	0.92	0.53	0.47	0.41	0.32	0.24
12	130	1.10	0.63	0.55	0.48	0.38	0.28
14	158	1.32	0.77	0.68	0.62	0.47	0.35
16	179	1.49	0.87	0.77	0.68	0.53	0.39
525mA							
02	37	0.30	0.19	0.17	0.16	0.12	0.10
04	70	0.58	0.34	0.31	0.28	0.21	0.16
06	101	0.84	0.49	0.43	0.38	0.30	0.22
08	133	1.13	0.66	0.58	0.51	0.39	0.28
10	171	1.43	0.83	0.74	0.66	0.50	0.38
12	202	1.69	0.98	0.86	0.77	0.59	0.44
14	232	1.94	1.12	0.98	0.87	0.68	0.50
16	263	2.21	1.27	1.11	0.97	0.77	0.56
700mA							
02	50	0.41	0.25	0.22	0.20	0.15	0.12
04	93	0.78	0.46	0.40	0.36	0.27	0.20
06	134	1.14	0.65	0.57	0.50	0.39	0.29

* Electrical data at 25˚C (77˚F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%

THE EDGE® Series Ambient Adjusted Lumen Maintenance[1]

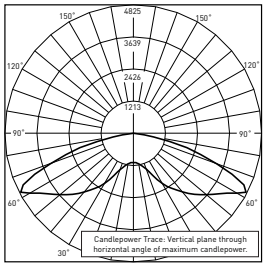
Ambient	CCT	Initial LMF	25K hr Reported[2] LMF	50K hr Reported[2] LMF	75K hr Estimated[3] LMF	100K hr Estimated[3] LMF
5˚C (41˚F)	30K/40K/50K/57K	1.04	1.01	0.99	0.98	0.96
	TRL	1.06	1.06	1.06	1.06	1.06
10˚C (50˚F)	30K/40K/50K/57K	1.03	1.00	0.98	0.97	0.95
	TRL	1.04	1.04	1.04	1.04	1.04
15˚C (59˚F)	30K/40K/50K/57K	1.02	0.99	0.97	0.96	0.94
	TRL	1.03	1.03	1.03	1.03	1.03
20˚C (68˚F)	30K/40K/50K/57K	1.01	0.98	0.96	0.95	0.93
	TRL	1.01	1.01	1.01	1.01	1.01
25˚C (77˚F)	30K/40K/50K/57K	1.00	0.97	0.95	0.94	0.92
	TRL	1.00	1.00	1.00	1.00	1.00

[1] Lumen maintenance values at 25˚C (77˚F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the Temperature Zone Reference Document for outdoor average nighttime ambient conditions.
[2] In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.
[3] Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

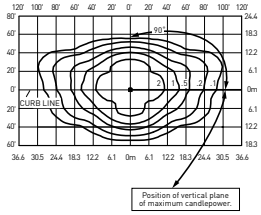
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/area/cree-edge-series-1

2M



RESTL Test Report #: PL10270-004B
ARE-EDG-2M-**-06-E-UL-525-40K
Initial Delivered Lumens: 10,053



ARE-EDG-2M-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 17,504
Initial FC at grade

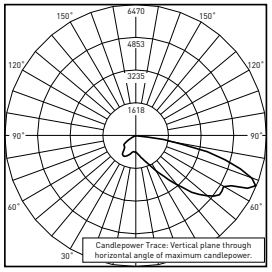
Type II Medium Distribution				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	2,501	B1 U0 G1	2,551	B1 U0 G1
04	5,003	B1 U0 G1	5,102	B1 U0 G1
06	7,418	B2 U0 G2	7,565	B2 U0 G2
08	9,891	B2 U0 G2	10,087	B2 U0 G2
10	12,334	B2 U0 G2	12,578	B2 U0 G2
12	14,801	B3 U0 G3	15,094	B3 U0 G3
14	17,158	B3 U0 G3	17,498	B3 U0 G3
16	19,609	B3 U0 G3	19,998	B3 U0 G3
525mA				
02	3,550	B1 U0 G1	3,624	B1 U0 G1
04	7,099	B2 U0 G2	7,248	B2 U0 G2
06	10,527	B2 U0 G2	10,748	B2 U0 G2
08	14,037	B3 U0 G3	14,331	B3 U0 G3
10	17,504	B3 U0 G3	17,870	B3 U0 G3
12	21,004	B3 U0 G3	21,444	B3 U0 G3
14	24,350	B3 U0 G3	24,860	B3 U0 G3
16	27,828	B4 U0 G3	28,411	B4 U0 G3
700mA				
02	4,189	B1 U0 G1	4,275	B1 U0 G1
04	8,379	B2 U0 G2	8,549	B2 U0 G2
06	12,425	B2 U0 G2	12,678	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf

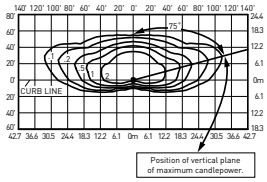
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/area/cree-edge-series-1

2MB



RESTL Test Report #: PL10023-003B
ARE-EDG-2MB-**-06-E-UL-525-40K
Initial Delivered Lumens: 7,784



ARE-EDG-2MB-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 13,185
Initial FC at grade

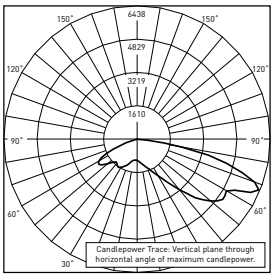
Type II Medium Distribution w/BLS				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	1,884	B0 U0 G1	1,921	B0 U0 G1
04	3,768	B1 U0 G1	3,843	B1 U0 G1
06	5,588	B1 U0 G1	5,698	B1 U0 G1
08	7,450	B1 U0 G2	7,598	B1 U0 G2
10	9,291	B1 U0 G2	9,475	B1 U0 G2
12	11,149	B1 U0 G2	11,370	B1 U0 G2
14	12,924	B1 U0 G2	13,181	B1 U0 G2
16	14,771	B1 U0 G2	15,063	B1 U0 G2
525mA				
02	2,674	B0 U0 G1	2,730	B0 U0 G1
04	5,348	B1 U0 G1	5,460	B1 U0 G1
06	7,930	B1 U0 G2	8,096	B1 U0 G2
08	10,573	B1 U0 G2	10,794	B1 U0 G2
10	13,185	B1 U0 G2	13,461	B1 U0 G2
12	15,821	B2 U0 G2	16,153	B2 U0 G3
14	18,341	B2 U0 G3	18,726	B2 U0 G3
16	20,962	B2 U0 G3	21,401	B2 U0 G3
700mA				
02	3,156	B0 U0 G1	3,220	B0 U0 G1
04	6,311	B1 U0 G1	6,440	B1 U0 G1
06	9,359	B1 U0 G2	9,549	B1 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf

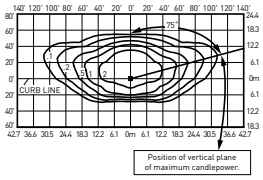
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/area/cree-edge-series-1

2MP



RESTL Test Report #: PL10097-001B
ARE-EDG-2MP-**-06-E-UL-525-40K
Initial Delivered Lumens: 9,149



ARE-EDG-2MP-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 15,458
Initial FC at grade

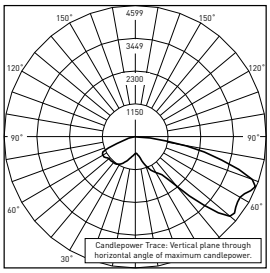
Type II Medium Distribution w/Partial BLS				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	2,209	B1 U0 G1	2,253	B1 U0 G1
04	4,418	B1 U0 G1	4,505	B1 U0 G1
06	6,551	B2 U0 G1	6,681	B2 U0 G1
08	8,735	B2 U0 G2	8,908	B2 U0 G2
10	10,892	B2 U0 G2	11,108	B2 U0 G2
12	13,071	B2 U0 G2	13,330	B2 U0 G2
14	15,153	B2 U0 G2	15,453	B2 U0 G3
16	17,317	B3 U0 G3	17,661	B3 U0 G3
525mA				
02	3,135	B1 U0 G1	3,200	B1 U0 G1
04	6,270	B1 U0 G1	6,401	B2 U0 G1
06	9,297	B2 U0 G2	9,492	B2 U0 G2
08	12,396	B2 U0 G2	12,656	B2 U0 G2
10	15,458	B2 U0 G3	15,782	B2 U0 G3
12	18,549	B3 U0 G3	18,938	B3 U0 G3
14	21,504	B3 U0 G3	21,954	B3 U0 G3
16	24,576	B3 U0 G3	25,091	B3 U0 G3
700mA				
02	3,700	B1 U0 G1	3,775	B1 U0 G1
04	7,400	B2 U0 G2	7,550	B2 U0 G2
06	10,973	B2 U0 G2	11,196	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf

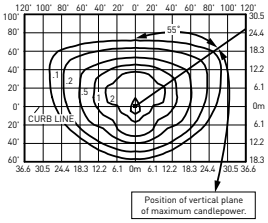
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/area/cree-edge-series-1

3M



RESTL Test Report #: PL09405-001A
ARE-EDG-3M-**-06-E-UL-525-40K
Initial Delivered Lumens: 9,460



ARE-EDG-3M-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 16,594
Initial FC at grade

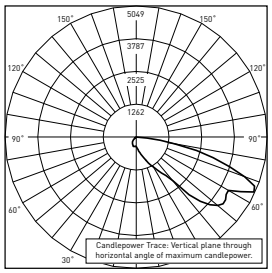
Type III Medium Distribution				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	2,371	B1 U0 G1	2,418	B1 U0 G1
04	4,743	B1 U0 G1	4,837	B1 U0 G1
06	7,033	B2 U0 G2	7,172	B2 U0 G2
08	9,377	B2 U0 G2	9,563	B2 U0 G2
10	11,693	B3 U0 G3	11,925	B3 U0 G3
12	14,032	B3 U0 G3	14,310	B3 U0 G3
14	16,267	B3 U0 G3	16,589	B3 U0 G3
16	18,591	B3 U0 G3	18,959	B3 U0 G3
525mA				
02	3,365	B1 U0 G1	3,436	B1 U0 G1
04	6,731	B2 U0 G2	6,872	B2 U0 G2
06	9,981	B3 U0 G3	10,190	B3 U0 G3
08	13,307	B3 U0 G3	13,586	B3 U0 G3
10	16,594	B3 U0 G3	16,942	B3 U0 G3
12	19,913	B3 U0 G3	20,330	B3 U0 G3
14	23,085	B3 U0 G3	23,569	B3 U0 G3
16	26,383	B4 U0 G4	26,936	B4 U0 G4
700mA				
02	3,972	B1 U0 G1	4,053	B1 U0 G1
04	7,944	B2 U0 G2	8,105	B2 U0 G2
06	11,779	B3 U0 G3	12,019	B3 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf

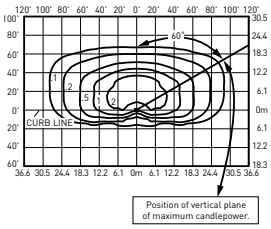
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/area/cree-edge-series-1

3MB



RESTL Test Report #: PL10023-001B
ARE-EDG-3MB-**-06-E-UL-525-40K
Initial Delivered Lumens: 7,602



ARE-EDG-3MB-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 12,275
Initial FC at grade

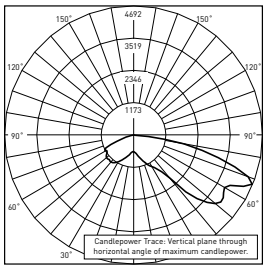
Type III Medium Distribution w/BLS				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	1,754	B0 U0 G1	1,789	B0 U0 G1
04	3,508	B1 U0 G1	3,578	B1 U0 G1
06	5,202	B1 U0 G2	5,305	B1 U0 G2
08	6,936	B1 U0 G2	7,074	B1 U0 G2
10	8,650	B1 U0 G2	8,821	B1 U0 G2
12	10,380	B1 U0 G3	10,585	B1 U0 G3
14	12,033	B1 U0 G3	12,272	B1 U0 G3
16	13,752	B2 U0 G3	14,025	B2 U0 G3
525mA				
02	2,489	B0 U0 G1	2,542	B0 U0 G1
04	4,979	B1 U0 G2	5,083	B1 U0 G2
06	7,383	B1 U0 G2	7,538	B1 U0 G2
08	9,844	B1 U0 G2	10,050	B1 U0 G3
10	12,275	B1 U0 G3	12,532	B1 U0 G3
12	14,730	B2 U0 G3	15,039	B2 U0 G3
14	17,077	B2 U0 G3	17,434	B2 U0 G3
16	19,516	B2 U0 G3	19,925	B2 U0 G3
700mA				
02	2,938	B1 U0 G1	2,998	B1 U0 G1
04	5,876	B1 U0 G2	5,996	B1 U0 G2
06	8,714	B1 U0 G2	8,891	B1 U0 G2

* Initial delivered lumens at 25˚C (77˚F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf

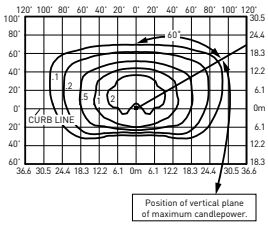
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/area/cree-edge-series-1

3MP



RESTL Test Report #: PL10097-002B
ARE-EDG-3MP-**-06-E-UL-525-40K
Initial Delivered Lumens: 8,670



ARE-EDG-3MP-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 14,548
Initial FC at grade

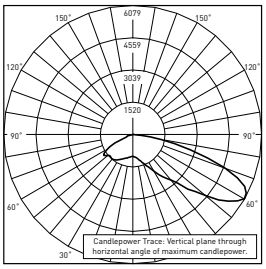
Type III Medium Distribution w/Partial BLS				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	2,079	B1 U0 G1	2,120	B1 U0 G1
04	4,158	B1 U0 G1	4,240	B1 U0 G1
06	6,166	B1 U0 G2	6,288	B1 U0 G2
08	8,221	B2 U0 G2	8,384	B2 U0 G2
10	10,252	B2 U0 G2	10,455	B2 U0 G3
12	12,302	B2 U0 G3	12,546	B2 U0 G3
14	14,261	B3 U0 G3	14,544	B3 U0 G3
16	16,299	B3 U0 G3	16,622	B3 U0 G3
525mA				
02	2,950	B1 U0 G1	3,012	B1 U0 G1
04	5,901	B1 U0 G2	6,024	B1 U0 G2
06	8,750	B2 U0 G2	8,933	B2 U0 G2
08	11,667	B2 U0 G3	11,911	B2 U0 G3
10	14,548	B3 U0 G3	14,853	B3 U0 G3
12	17,458	B3 U0 G3	17,824	B3 U0 G3
14	20,239	B3 U0 G3	20,663	B3 U0 G3
16	23,130	B3 U0 G4	23,615	B3 U0 G4
700mA				
02	3,482	B1 U0 G1	3,553	B1 U0 G1
04	6,964	B2 U0 G2	7,106	B2 U0 G2
06	10,327	B2 U0 G2	10,537	B2 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf

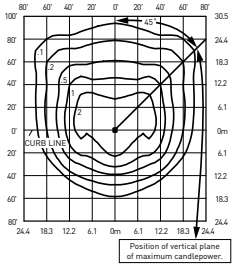
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/area/cree-edge-series-1

4M



RESTL Test Report #: PL10270-001B
ARE-EDG-4M-**-06-E-UL-525-40K
Initial Delivered Lumens: 10,483



ARE-EDG-4M-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 17,504
Initial FC at grade

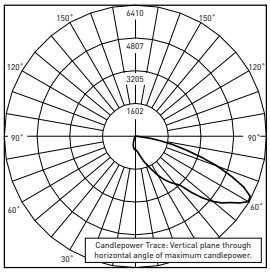
Type IV Medium Distribution				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	2,501	B1 U0 G1	2,551	B1 U0 G1
04	5,003	B2 U0 G1	5,102	B2 U0 G1
06	7,418	B2 U0 G2	7,565	B2 U0 G2
08	9,891	B2 U0 G2	10,087	B2 U0 G2
10	12,334	B3 U0 G3	12,578	B3 U0 G3
12	14,801	B3 U0 G3	15,094	B3 U0 G3
14	17,158	B3 U0 G3	17,498	B3 U0 G3
16	19,609	B3 U0 G3	19,998	B3 U0 G3
525mA				
02	3,550	B1 U0 G1	3,624	B1 U0 G1
04	7,099	B2 U0 G2	7,248	B2 U0 G2
06	10,527	B2 U0 G2	10,748	B2 U0 G2
08	14,037	B3 U0 G3	14,331	B3 U0 G3
10	17,504	B3 U0 G3	17,870	B3 U0 G3
12	21,004	B3 U0 G3	21,444	B3 U0 G3
14	24,350	B4 U0 G3	24,860	B4 U0 G3
16	27,828	B4 U0 G3	28,411	B4 U0 G3
700mA				
02	4,189	B1 U0 G1	4,275	B1 U0 G1
04	8,379	B2 U0 G2	8,549	B2 U0 G2
06	12,425	B3 U0 G3	12,678	B3 U0 G3

* Initial delivered lumens at 25˚C (77˚F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf

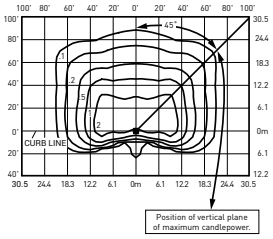
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/area/cree-edge-series-1

4MB



RESTL Test Report #: PL01023-002B
ARE-EDG-4MB-**-06-E-UL-525-40K
Initial Delivered Lumens: 7,985



ARE-EDG-4MB-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 13,185
Initial FC at grade

Type IV Medium Distribution w/BLS				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	1,884	B0 U0 G1	1,921	B0 U0 G1
04	3,768	B1 U0 G1	3,843	B1 U0 G1
06	5,588	B1 U0 G1	5,698	B1 U0 G2
08	7,450	B1 U0 G2	7,598	B1 U0 G2
10	9,291	B1 U0 G2	9,475	B1 U0 G2
12	11,149	B1 U0 G2	11,370	B1 U0 G2
14	12,924	B1 U0 G2	13,181	B1 U0 G2
16	14,771	B2 U0 G2	15,063	B2 U0 G2
525mA				
02	2,674	B0 U0 G1	2,730	B0 U0 G1
04	5,348	B1 U0 G1	5,460	B1 U0 G1
06	7,930	B1 U0 G2	8,096	B1 U0 G2
08	10,573	B1 U0 G2	10,794	B1 U0 G2
10	13,185	B1 U0 G2	13,461	B1 U0 G2
12	15,821	B2 U0 G3	16,153	B2 U0 G3
14	18,341	B2 U0 G3	18,726	B2 U0 G3
16	20,962	B2 U0 G3	21,401	B2 U0 G3
700mA				
02	3,156	B1 U0 G1	3,220	B1 U0 G1
04	6,311	B1 U0 G2	6,440	B1 U0 G2
06	9,359	B1 U0 G2	9,549	B1 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf

Photometry

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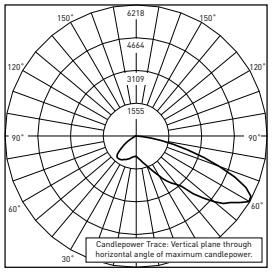
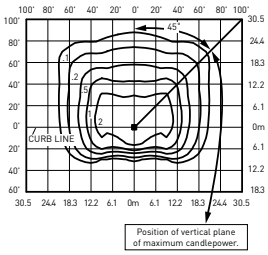
4MP



RESTL Test Report #: PL10097-003B
ARE-EDG-4MP-**-06-E-UL-525-40K
Initial Delivered Lumens: 9,410



ARE-EDG-4MP-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 15,458
Initial FC at grade

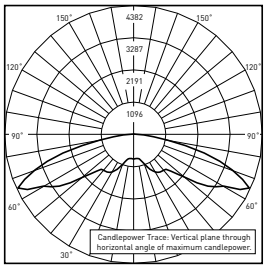
Type IV Medium Distribution w/Partial BLS				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	2,209	B1 U0 G1	2,253	B1 U0 G1
04	4,418	B1 U0 G1	4,505	B1 U0 G1
06	6,551	B2 U0 G1	6,681	B2 U0 G1
08	8,735	B2 U0 G2	8,908	B2 U0 G2
10	10,892	B2 U0 G2	11,108	B2 U0 G2
12	13,071	B2 U0 G2	13,330	B2 U0 G2
14	15,153	B3 U0 G2	15,453	B3 U0 G2
16	17,317	B3 U0 G2	17,661	B3 U0 G2
525mA				
02	3,135	B1 U0 G1	3,200	B1 U0 G1
04	6,270	B2 U0 G1	6,401	B2 U0 G1
06	9,297	B2 U0 G2	9,492	B2 U0 G2
08	12,396	B2 U0 G2	12,656	B2 U0 G2
10	15,458	B3 U0 G2	15,782	B3 U0 G2
12	18,549	B3 U0 G2	18,938	B3 U0 G3
14	21,504	B3 U0 G3	21,954	B3 U0 G3
16	24,576	B3 U0 G3	25,091	B3 U0 G3
700mA				
02	3,700	B1 U0 G1	3,775	B1 U0 G1
04	7,400	B2 U0 G2	7,550	B2 U0 G2
06	10,973	B2 U0 G2	11,196	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf

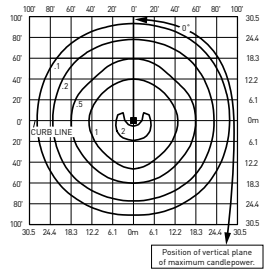
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/area/cree-edge-series-1

5M



RESTL Test Report #: PL09285-001
ARE-EDG-5M-**-06-E-UL-700-40K
Initial Delivered Lumens: 13,136



ARE-EDG-5M-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 18,413
Initial FC at grade

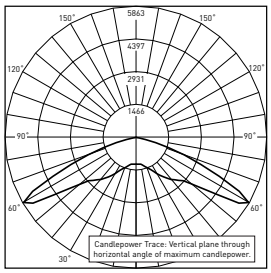
Type V Medium Distribution				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	2,631	B2 U0 G1	2,683	B2 U0 G1
04	5,262	B3 U0 G1	5,367	B3 U0 G1
06	7,804	B3 U0 G2	7,958	B3 U0 G2
08	10,405	B4 U0 G2	10,611	B4 U0 G2
10	12,975	B4 U0 G2	13,232	B4 U0 G2
12	15,570	B4 U0 G3	15,878	B4 U0 G3
14	18,049	B4 U0 G3	18,407	B4 U0 G3
16	20,628	B5 U0 G3	21,037	B5 U0 G3
525mA				
02	3,734	B2 U0 G1	3,812	B2 U0 G1
04	7,468	B3 U0 G2	7,625	B3 U0 G2
06	11,074	B4 U0 G2	11,306	B4 U0 G2
08	14,766	B4 U0 G2	15,075	B4 U0 G3
10	18,413	B4 U0 G3	18,799	B4 U0 G3
12	22,096	B5 U0 G3	22,558	B5 U0 G3
14	25,615	B5 U0 G3	26,151	B5 U0 G3
16	29,274	B5 U0 G3	29,887	B5 U0 G3
700mA				
02	4,407	B3 U0 G1	4,497	B3 U0 G1
04	8,814	B3 U0 G2	8,993	B3 U0 G2
06	13,070	B4 U0 G2	13,336	B4 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf

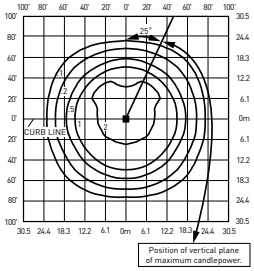
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/area/cree-edge-series-1

5S



RESTL Test Report #: PL09286-001A
ARE-EDG-5S-**-06-E-UL-700-40K
Initial Delivered Lumens: 14,123



ARE-EDG-5S-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 20,459
Initial FC at grade

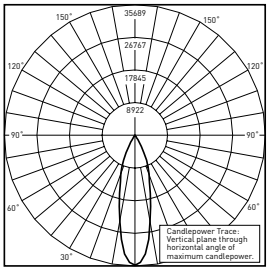
Type V Short Distribution				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	2,924	B2 U0 G0	2,982	B2 U0 G0
04	5,847	B3 U0 G1	5,963	B3 U0 G1
06	8,671	B3 U0 G1	8,842	B3 U0 G1
08	11,561	B3 U0 G2	11,790	B3 U0 G2
10	14,416	B4 U0 G2	14,702	B4 U0 G2
12	17,300	B4 U0 G2	17,642	B4 U0 G2
14	20,055	B4 U0 G2	20,453	B4 U0 G2
16	22,920	B4 U0 G2	23,374	B4 U0 G2
525mA				
02	4,149	B2 U0 G1	4,236	B2 U0 G1
04	8,298	B3 U0 G1	8,472	B3 U0 G1
06	12,305	B3 U0 G2	12,563	B3 U0 G2
08	16,406	B4 U0 G2	16,750	B4 U0 G2
10	20,459	B4 U0 G2	20,887	B4 U0 G2
12	24,551	B4 U0 G2	25,065	B4 U0 G2
14	28,461	B5 U0 G3	29,057	B5 U0 G3
16	32,527	B5 U0 G3	33,208	B5 U0 G3
700mA				
02	4,897	B2 U0 G1	4,996	B2 U0 G1
04	9,793	B3 U0 G1	9,993	B3 U0 G2
06	14,523	B4 U0 G2	14,818	B4 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf

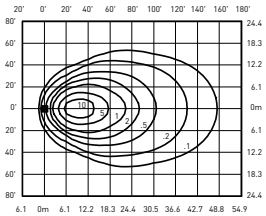
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/area/cree-edge-series-1

25˚



RESTL Test Report #: PL09832-003B
FLD-EDG-25-**-06-E-UL-700-40K
Initial Delivered Lumens: 14,998



FLD-EDG-25-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G., 60˚ Tilt
Initial Delivered Lumens: 20,913
Initial FC at grade

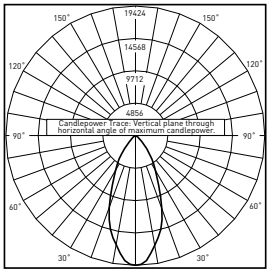
25˚ Flood Distribution		
LED Count (x10)	4000K Initial Delivered Lumens*	5700K Initial Delivered Lumens*
350mA		
02	2,989	3,048
04	5,977	6,096
06	8,863	9,039
08	11,818	12,052
10	14,737	15,029
12	17,684	18,035
14	20,501	20,907
16	23,429	23,894
525mA		
02	4,241	4,330
04	8,482	8,660
06	12,578	12,842
08	16,771	17,122
10	20,913	21,352
12	25,096	25,622
14	29,093	29,703
16	33,250	33,946
700mA		
02	5,006	5,107
04	10,011	10,215
06	14,845	15,147

* Initial delivered lumens at 25˚C (77˚F). Actual production yield may vary between -10 and +10% of initial delivered lumens

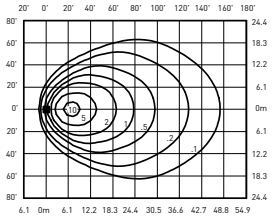
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/area/cree-edge-series-1

40˚



RESTL Test Report #: PL09832-002B
FLD-EDG-40-**-06-E-UL-700-40K
Initial Delivered Lumens: 13,808



FLD-EDG-40-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G., 60˚ Tilt
Initial Delivered Lumens: 20,459
Initial FC at grade

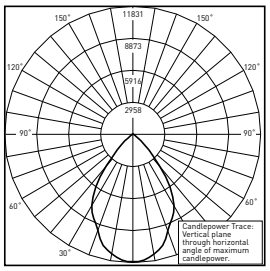
40˚ Flood Distribution		
LED Count (x10)	4000K Initial Delivered Lumens*	5700K Initial Delivered Lumens*
350mA		
02	2,924	2,982
04	5,847	5,963
06	8,671	8,842
08	11,561	11,790
10	14,416	14,702
12	17,300	17,642
14	20,055	20,453
16	22,920	23,374
525mA		
02	4,149	4,236
04	8,298	8,472
06	12,305	12,563
08	16,406	16,750
10	20,459	20,887
12	24,551	25,065
14	28,461	29,057
16	32,527	33,208
700mA		
02	4,897	4,996
04	9,793	9,993
06	14,523	14,818

* Initial delivered lumens at 25˚C (77˚F). Actual production yield may vary between -10 and +10% of initial delivered lumens

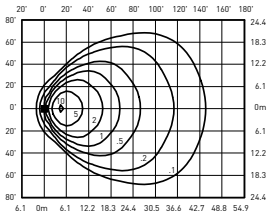
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/area/cree-edge-series-1

70˚



RESTL Test Report #: PL09832-001B
FLD-EDG-70-**-06-E-UL-700-40K
Initial Delivered Lumens: 13,888



FLD-EDG-70-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G., 60˚ Tilt
Initial Delivered Lumens: 18,640
Initial FC at grade

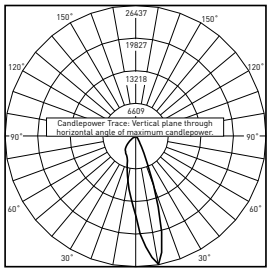
70˚ Flood Distribution		
LED Count (x10)	4000K Initial Delivered Lumens*	5700K Initial Delivered Lumens*
350mA		
02	2,664	2,716
04	5,327	5,433
06	7,900	8,056
08	10,533	10,742
10	13,135	13,395
12	15,762	16,074
14	18,272	18,635
16	20,883	21,297
525mA		
02	3,780	3,859
04	7,560	7,719
06	11,211	11,446
08	14,948	15,261
10	18,640	19,031
12	22,368	22,837
14	25,931	26,474
16	29,636	30,256
700mA		
02	4,461	4,552
04	8,923	9,104
06	13,232	13,501

* Initial delivered lumens at 25˚C (77˚F). Actual production yield may vary between -10 and +10% of initial delivered lumens

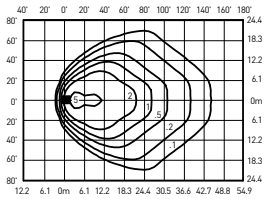
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/area/cree-edge-series-1

SN



RESTL Test Report #: PL10142-001B
FLD-EDG-SN-**-06-E-UL-700-40K
Initial Delivered Lumens: 13,701



FLD-EDG-SN-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 18,868
Initial FC at grade

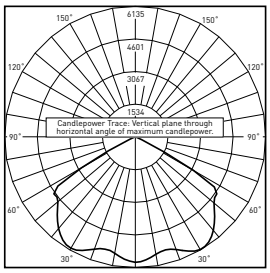
SN Flood Distribution		
LED Count (x10)	4000K Initial Delivered Lumens*	5700K Initial Delivered Lumens*
350mA		
02	2,696	2,750
04	5,392	5,499
06	7,996	8,155
08	10,662	10,873
10	13,295	13,559
12	15,954	16,270
14	18,495	18,862
16	21,137	21,556
525mA		
02	3,826	3,906
04	7,653	7,813
06	11,348	11,585
08	15,130	15,447
10	18,868	19,263
12	22,641	23,115
14	26,247	26,797
16	29,997	30,625
700mA		
02	4,516	4,608
04	9,032	9,215
06	13,393	13,665

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

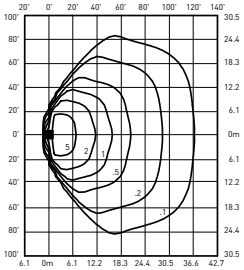
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/area/cree-edge-series-1

N6



RESTL Test Report #: PL09832-004B
FLD-EDG-N6-**-06-E-UL-700-40K
Initial Delivered Lumens: 15,251



FLD-EDG-N6-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 20,913
Initial FC at grade

NEMA® 6 Flood Distribution		
LED Count (x10)	4000K Initial Delivered Lumens*	5700K Initial Delivered Lumens*
350mA		
02	2,989	3,048
04	5,977	6,096
06	8,863	9,039
08	11,818	12,052
10	14,737	15,029
12	17,684	18,035
14	20,501	20,907
16	23,429	23,894
525mA		
02	4,241	4,330
04	8,482	8,660
06	12,578	12,842
08	16,771	17,122
10	20,913	21,352
12	25,096	25,622
14	29,093	29,703
16	33,250	33,946
700mA		
02	5,006	5,107
04	10,011	10,215
06	14,845	15,147

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

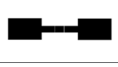
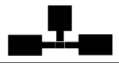
Luminaire EPA

Fixed Arm Mount – ARE-EDG-DA						
LED Count (x10)	Single	2 @ 90˚	2 @ 180˚	3 @ 90˚	3 @ 120˚	4 @ 90˚
02	0.60	0.87	1.20	1.47	1.47	1.75
04	0.60	0.87	1.20	1.47	1.47	1.75
06	0.60	0.92	1.20	1.51	1.51	1.83
08	0.60	0.96 N/A with 3" poles	1.20	1.55 N/A with 3" poles	1.55	1.91 N/A with 3" poles
10	0.60	1.00 N/A with 3" poles	1.20	1.60 N/A with 3" poles	1.60	2.00 N/A with 3" poles
12	0.60	1.04 N/A with 3" poles	1.20	1.64 N/A with 3" poles	1.64	2.08 N/A with 3" poles
14	0.60	1.08 N/A with 3" or 4" poles	1.20	1.68 N/A with 3" or 4" poles	1.68	2.16 N/A with 3" or 4" poles
16	0.60	1.12 N/A with 3" or 4" poles	1.20	1.72 N/A with 3" or 4" poles	1.72	2.24 N/A with 3" or 4" poles
Fixed Arm Mount – ARE-EDG-DL						
02	0.75	1.02	1.50	1.77	1.77	1.91
04	0.75	1.02	1.50	1.77	1.77	1.91
06	0.75	1.07	1.50	1.82	1.82	1.98
08	0.75	1.11	1.50	1.86	1.86	2.04
10	0.75	1.15	1.50	1.90	1.90	2.10
12	0.75	1.19	1.50	1.94	1.94	2.16
14	0.75	1.23	1.50	1.98	1.98	2.22
16	0.75	1.27	1.50	2.02	2.02	2.28

Adjustable Arm Mount – ARE-EDG-AA/FLD-EDG-AA/SA									
LED Count (x10)	Single	2 @ 90˚	2 @ 180˚	In-Line 2 @ 180˚	3 @ 90˚	3 @ 120˚	In-Line 3 @ 180˚	4 @ 90˚	In-Line 4 @ 180˚
Tenon Configuration If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA									
	Vertical: PB-1A*; PT-1; PW-1A3** Horizontal: By others	Vertical: PB-2A*; PB-2R2.375; PW-2A3** Horizontal: PD-2A4(90); PT-2(90)	Vertical: PB-2A*; PB-2R2.375; PW-2A3** Horizontal: PD-2A4(180); PT-2(180)	Vertical: PB-2A*; PB-2R2.375	Vertical: PB-3A*; PB-3R2.375 Horizontal: PD-3A4(90); PT-3(90)	Vertical: PB-3A*; PB-3R2.375 Horizontal: PT-3(120)	Vertical: PB-3A*; PB-3R2.375	Vertical: PB-4A*(90); PB-4R2.375 Horizontal: PD-4A4(90) PT-4(90)	Vertical: PB-4A*(180); PB-4R2.375
0˚ Tilt									
02	0.66	0.98	1.32	1.32	1.77	1.64	1.98	1.91	2.64
04	0.66	0.98	1.32	1.32	1.64	1.64	1.98	1.97	2.64
06	0.66	1.02	1.32	1.32	1.68	1.68	1.98	2.05	2.64
08	0.66	1.07	1.32	1.32	1.80	1.72	1.98	2.29	2.64
10	0.66	1.11	1.32	1.32	1.76	1.76	1.98	2.21	2.64
12	0.66	1.15	1.32	1.32	1.80	1.80	1.98	2.29	2.64
14	0.66	1.19	1.32	1.32	1.84	1.84	1.98	2.38	2.64
16	0.66	1.23	1.32	N/A	1.89	1.89	N/A	2.46	N/A

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Luminaire EPA

Adjustable Arm Mount – ARE-EDG-AA/FLD-EDG-AA/SA									
LED Count (x10)	Single	2 @ 90°	2 @ 180°	In-Line 2 @ 180°	3 @ 90°	3 @ 120°	In-Line 3 @ 180°	4 @ 90°	In-Line 4 @ 180°
Tenon Configuration If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA									
									
	Vertical: PB-1A*; PT-1; PW-1A3** Horizontal: By others	Vertical: PB-2A*; PB-2R2.375; PW-2A3** Horizontal: PD-2A4(90); PT-2(90)	Vertical: PB-2A*; PB-2R2.375; PW-2A3** Horizontal: PD-2A4(180); PT-2(180)	Vertical: PB-2A*; PB-2R2.375	Vertical: PB-3A*; PB-3R2.375 Horizontal: PD-3A4(90); PT-3(90)	Vertical: PB-3A*; PB-3R2.375 Horizontal: PT-3(120)	Vertical: PB-3A*; PB-3R2.375	Vertical: PB-4A*(90); PB-4R2.375 Horizontal: PD-4A4(90) PT-4(90)	Vertical: PB-4A*(180); PB-4R2.375
30˚ Tilt									
02	0.71	1.37	1.42	1.42	2.08	2.08	2.13	2.73	2.84
04	0.71	1.37	1.42	1.42	2.08	2.08	2.13	2.73	2.84
06	0.82	1.48	1.64	1.64	2.30	2.30	2.46	2.95	3.28
08	0.93	1.59	1.86	1.86	2.52	2.52	2.79	3.17	3.72
10	1.04	1.70	2.08	2.08	2.74	2.74	3.12	3.40	4.16
12	1.15	1.81	2.30	2.30	2.96	2.96	3.45	3.62	4.60
14	1.26	1.92	2.52	2.52	3.18	3.18	3.78	3.84	5.04
16	1.37	2.03	2.74	N/A	3.40	3.40	N/A	4.06	N/A
45˚ Tilt									
02	0.89	1.55	1.78	1.78	2.45	2.45	2.67	3.10	3.56
04	0.89	1.55	1.78	1.78	2.45	2.45	2.67	3.10	3.56
06	1.03	1.69	2.06	2.06	2.72	2.72	3.09	3.38	4.12
08	1.17	1.83	2.34	2.34	3.00	3.00	3.51	3.66	4.68
10	1.31	1.97	2.62	2.62	3.28	3.28	3.93	3.94	5.24
12	1.45	2.11	2.90	2.90	3.56	3.56	4.35	4.21	5.80
14	1.59	2.25	3.18	3.18	3.83	3.83	4.77	4.49	6.36
16	1.73	2.38	3.46	N/A	4.11	4.11	N/A	4.77	N/A
60˚ Tilt									
02	1.20	1.86	2.40	2.40	3.06	3.06	3.60	3.72	4.80
04	1.20	1.86	2.40	2.40	3.06	3.06	3.60	3.72	4.80
06	1.39	2.05	2.78	2.78	3.44	3.44	4.17	4.10	5.56
08	1.58	2.23	3.16	3.16	3.81	3.81	4.74	4.47	6.32
10	1.77	2.42	3.54	3.54	4.19	4.19	5.31	4.84	7.08
12	1.95	2.61	3.90	3.90	4.56	4.56	5.85	5.22	7.80
14	2.14	2.80	4.28	4.28	4.94	4.94	6.42	5.59	8.56
16	2.33	2.98	4.66	N/A	5.31	5.31	N/A	5.97	N/A

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Luminaire EPA

Adjustable Arm Mount – ARE-EDG-AA/FLD-EDG-AA/SA									
LED Count (x10)	Single	2 @ 90°	2 @ 180°	In-Line 2 @ 180°	3 @ 90°	3 @ 120°	In-Line 3 @ 180°	4 @ 90°	In-Line 4 @ 180°
Tenon Configuration If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA									
	Vertical: PB-1A*; PT-1; PW-1A3** Horizontal: By others	Vertical: PB-2A*; PB-2R2.375; PW-2A3** Horizontal: PD-2A4(90); PT-2(90)	Vertical: PB-2A*; PB-2R2.375; PW-2A3** Horizontal: PD-2A4(180); PT-2(180)	Vertical: PB-2A*; PB-2R2.375	Vertical: PB-3A*; PB-3R2.375 Horizontal: PD-3A4(90); PT-3(90)	Vertical: PB-3A*; PB-3R2.375 Horizontal: PT-3(120)	Vertical: PB-3A*; PB-3R2.375	Vertical: PB-4A*(90); PB-4R2.375 Horizontal: PD-4A4(90) PT-4(90)	Vertical: PB-4A*(180); PB-4R2.375
90° Tilt									
02	1.85	2.51	3.70	3.64	4.36	4.36	5.55	5.02	7.40
04	1.85	2.51	3.70	3.64	4.36	4.36	5.55	5.02	7.40
06	2.14	2.80	4.28	4.22	4.94	4.94	6.42	5.59	8.56
08	2.43	3.09	4.86	4.78	5.51	5.51	7.29	6.17 N/A with horizontal tenon	9.72
10	2.71	3.37	5.42	5.34	6.08	6.08	8.13	6.74 N/A with horizontal tenon	10.84
12	3.00	3.66	6.00	5.90	6.66	6.66	9.00	7.31 N/A with horizontal tenon	12.00
14	3.29	3.95 N/A with PW-2A3**	6.58	6.48	7.23	7.23	9.87	7.89 N/A with horizontal tenon	13.16
16	3.57	4.23 N/A with PW-2A3**	7.14	N/A	7.81	7.81	N/A	8.46 N/A with horizontal tenon	N/A

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Tenon EPA

Part Number	EPA
PB-1A*	None
PB-2A*	0.82
PB-3A*	1.52
PB-4A*(180)	2.22
PB-4A*(90)	1.11
PB-2R2.375	0.92
PB-3R2.375	1.62
PB-4R2.375	2.32
PD Series Tenons	0.09
PT Series Tenons	0.10
PW-1A3**	0.47
PW-2A3**	0.94
WM-2	0.08
WM-4	0.25
WM-DM	None

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Tenons and Brackets‡ (must specify color)

Square Internal Mount Vertical Tenons (Steel)
- Mounts to 3-6" (76-152mm) square aluminum or steel poles

PB-1A* – Single
PB-2A* – 180° Twin
PB-3A* – 180° Triple
PB-4A*(90) – 90° Quad
PB-4A*(180) – 180° Quad

Square Internal Mount Horizontal Tenons (Aluminum)
- Mounts to 4" (102mm) square aluminum or steel poles

PD-2A4(90) – 90° Twin
PD-2A4(180) – 180° Twin
PD-3A4(90) – 90° Triple
PD-4A4(90) – 90° Quad

Wall Mount Brackets
- Mounts to wall or roof

WM-2 – Horizontal for AA and SA mounts
WM-4 – L-Shape for AA and SA mounts
WM-DM – Plate for DA and DL mounts

Round External Mount Vertical Tenons (Steel)
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons

PB-2R2.375 – Twin
PB-3R2.375 – Triple
PB-4R2.375 – Quad

Round External Mount Horizontal Tenons (Aluminum)
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons
- Mounts to square pole with PB-1A* tenon

PT-1 – Single (Vertical)
PT-2(90) – 90° Twin
PT-2(180) – 180° Twin
PT-3(90) – 90° Triple
PT-3(120) – 120° Triple
PT-4(90) – 90° Quad

Mid-Pole Bracket
- Mounts to square pole

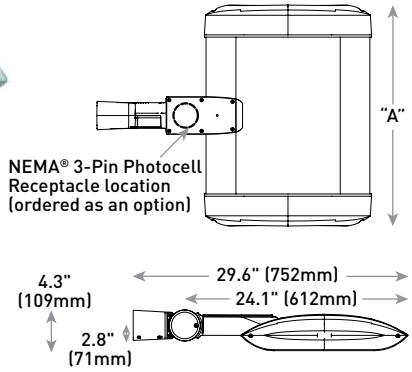
PW-1A3** – Single
PW-2A3** – Double

Ground Mount Post
- For ground mounted flood luminaires

PGM-1
- For use with AA and SA mounts

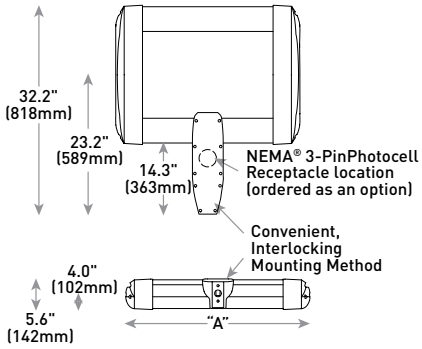
‡ Refer to the Bracket and Tenons spec sheet for more details

AA Mount



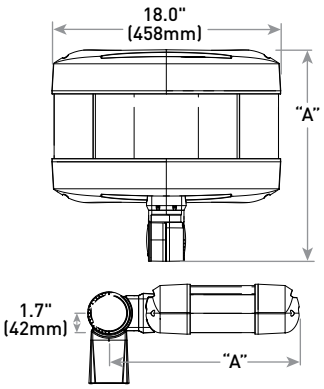
LED Count (x10)	Dim. "A"	Weight
02	12.1" (306mm)	21 lbs. (10kg)
04	12.1" (306mm)	24 lbs. (11kg)
06	14.1" (357mm)	27 lbs. (12kg)
08	16.1" (408mm)	28 lbs. (13kg)
10	18.1" (459mm)	32 lbs. (15kg)
12	20.1" (510mm)	34 lbs. (15kg)
14	22.1" (560mm)	37 lbs. (17kg)
16	24.1" (611mm)	41 lbs. (19kg)

DL Mount



LED Count (x10)	Dim. "A"	Weight
02	12.1" (306mm)	23 lbs. (10kg)
04	12.1" (306mm)	26 lbs. (12kg)
06	14.1" (357mm)	29 lbs. (13kg)
08	16.1" (408mm)	30 lbs. (14kg)
10	18.1" (459mm)	34 lbs. (15kg)
12	20.1" (510mm)	36 lbs. (16kg)
14	22.1" (560mm)	42 lbs. (19kg)
16	24.1" (611mm)	44 lbs. (20kg)

SA Mount



LED Count (x10)	Dim. "A"	Weight
02	16.0" (406mm)	25 lbs. (11kg)
04	18.0" (457mm)	26 lbs. (12kg)
06	20.0" (508mm)	28 lbs. (13kg)

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US: creelighting.com (800) 236-6800
Canada: creelighting-canada.com (800) 473-1234

CREE LIGHTING

A COMPANY OF *IDEAL INDUSTRIES, INC.*

Type:
BEGA Product:
Project:
Modified:

Application
Light building element with asymmetric wide beam light distribution. Light building elements are luminous design features for public areas. They are usually suited for delineating and structuring interior and exterior spaces such as landscape areas, plazas, building entrances and atria.

Materials
Luminaire housing and post constructed of extruded and die-cast marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy
Clear safety glass
Reflector made of pure anodized aluminum
Silicone applied robotically to casting, plasma treated for increased adhesion
High temperature silicone gasket
Mechanically captive stainless steel fasteners
Stainless steel helicoils
Heavy gauge galvanized steel mounting base

NRTL listed to North American Standards, suitable for wet locations
Protection class IP 65
Effective projection area: 12.81 sq. ft.
Weight: 124.3 lbs

Electrical

Operating voltage	120-277V AC
Minimum start temperature	-30° C
LED module wattage	15.8 W
System wattage	20.0 W
Controllability	0-10V dimmable
Color rendering index	Ra > 80
Luminaire lumens	2,088 lumens (4000K)
LED service life (L70)	60,000 hours

LED color temperature

4000K - Product number + **K4**
3500K - Product number + **K35**
3000K - Product number + **K3**
2700K - Product number + **K27**
Amber - Product number + **AMB**

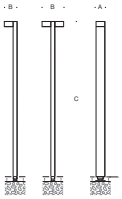
Wildlife friendly amber LED - Optional
Luminaire is optionally available with a narrow bandwidth, amber LED source (585-600nm) approved by the FWC. This light output is suggested for use within close proximity to sea turtle nesting and hatching habitats. Electrical and control information may vary from standard luminaire.

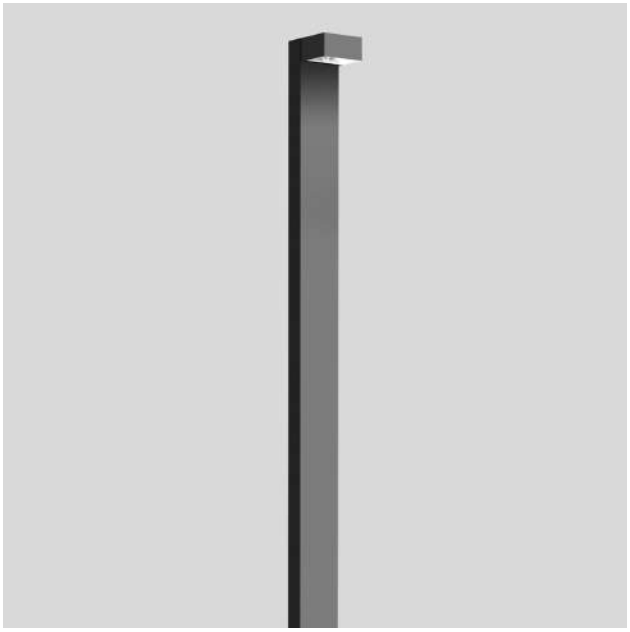
LED module wattage	29.4 W (Amber)
System wattage	34.6 W (Amber)
Luminaire lumens	851 lumens (Amber)

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish
All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

Available colors	Black (BLK)	White (WHT)	RAL:
	Bronze (BRZ)	Silver (SLV)	CUS:





Light building element · asymmetric wide beam light distribution

	LED	A	B	C	Anchorage
99 072	15.8 W	9 ½	12 ½	177	**79 802**

BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 info@bega-us.com

Due to the dynamic nature of lighting products and the associated technologies, luminaire data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com
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Application
The fully shielded design of this bollard provides visual comfort while illuminating ground surfaces. Provided with mounting system that allows the luminaire to be adjusted independent of anchor bolt orientation.

Materials
Luminaire housing constructed of die-cast marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy
Clear safety glass
Reflector made of pure anodized aluminum
Silicone applied robotically to casting, plasma treated for increased adhesion
NRTL listed to North American Standards, suitable for wet locations
Protection class IP 65
Weight: 12.8 lbs

Electrical

Operating voltage	120-277V AC
Minimum start temperature	-30° C
LED module wattage	11.5 W
System wattage	15.0 W
Controllability	0-10V, TRIAC, and ELV dimmable
Color rendering index	Ra > 80
Luminaire lumens	1475 lumens (4000K)
LED service life (L70)	50,000 hours

LED color temperature

☐ 4000K - Product number + **K4**
☐ 3500K - Product number + **K35**
☐ 3000K - Product number + **K3**
☐ 2700K - Product number + **K27**

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish
All BEGA standard finishes are matte, textured powder coat with minimum 3 mil thickness. BEGA Unidure® finish, a fluoropolymer technology, provides superior fade protection in Black, Bronze, and Silver. BEGA standard White, as well as optionally available RAL and custom colors, are a polyester powder.

Available colors ☐ Black (BLK) ☐ White (WHT) ☐ RAL:
☐ Bronze (BRZ) ☐ Silver (SLV) ☐ CUS:

Type:
BEGA Product:
Project:
Modified:

Available options
☐ **70895** Direct burial anchorage

Shielded bollard · asymmetric

	LED	A	B	Anchorage
84220	11.5 W	6 ¼	37 ¼	**79817**

BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 info@bega-us.com

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CSM LOT 1
LANDS
FONTANA CT
WOODS HOLLOW RD
FITCHBURG CENTER
NORTH PLAT
OUTLOT 6
LOT 4
CSM OUTLOT 1
OUTLOT 8
BIT.
CNC.
EXISTING 12" UTILITY
S84°35'56"E 210.00'
(S85°00'00"E 210.00')
S01°06'24"W 195.00'
N21°54'03"W 115.16'
S89°23'57"W 540.08'
(N89°00'00"E 540.00')
N89°24'48"E 475.05'
S81°43'37"E 331.60'
N01°40'25"E 352.07'
(N01°14'
(S56°44'21"E 104.57')
305.87'
198.11'
S88°07'55"
114.97'