



SITE PLAN REVIEW COMMITTEE MEETING AGENDA

MONDAY, APRIL 28, 2025 AT 1:30 PM

**COUNCIL CHAMBERS, SECOND FLOOR, MUNICIPAL BUILDING, 106 JONES STREET,
WATERTOWN, WI 53094**

Virtual Meeting

Info: <https://us06web.zoom.us/j/2371460557?pwd=UXjvqLXKCdw12jl4jl1b7GIUPaClat.1&omn=82063418342> or call: 1-646-931-3860 and use Meeting ID: 237 146 0557 Passcode: 144391

All public participants' devices will be muted during the meeting except during the public comment period.

1. CALL TO ORDER

2. APPROVAL OF MINUTES

A. Review and take action: Site Plan Review minutes dated March 24, 2025

3. BUSINESS

A. Review and take action: 1 E. Main Street Site Review of Plaza Phase II ADA Compliant Ramp and Stairs & 112 S. First Street Parking Lot Reconstruction

4. ADJOURNMENT

Persons requiring other reasonable accommodations for any of the above meetings, may contact the office of the City Clerk at cityclerk@watertownwi.gov phone 920-262-4000

A quorum of any City of Watertown Council, Committee, Board, Commission, or other body, may be present at this meeting for observing and gathering of information only

SITE PLAN REVIEW COMMITTEE

March 24, 2025

The Site Plan Review Committee met on the above date at 1:30 P.M. in the Council Chambers on the second floor of City Hall. The following members were present: Mayor Emily McFarland, Brian Zirbes, Mason Becker, Mike Jacek, Stacy Winkelman, Andrew Beyer, Nathan Williams, Maureen McBroom, Tim Hayden, and Thomas Koerner.

Also in attendance were Nikki Zimmerman, Mason Becker, Timothy Sullivan, Alex Josue Blandon Robles of Latinos Supermarket, Joel Vaness of Abacus Architects, Daniel Benninger, Jerry Heller and Deb Heller of D & J Sports Bar, Amber Yelk of Sassy Sweets, Bill Edington of Heritage Military Music Foundation, Tony Stenzel of Lakeside Construction, Eric Halbur and Mark McClintock of Abacus Architects, and Konrad Roznik and Chris Merlein of North Town Partners.

1. Call to Order

The meeting was called to order by Chairperson Brian Zirbes.

2. Approval of Minutes

A. Review and take action: Site Plan Review Minutes Dated February 24, 2025

Motion was made by Tim Hayden and seconded by Andrew Beyer to approve the minutes as submitted. Unanimously approved.

3. Business

A. Review and take action: 100 E. Division Street initial review of site plan for zoning map amendment, planned development overlay map amendment, and zoning text amendment

Konrad Roznik of North Town Partners was present. The proposal is for a 65-unit apartment building with a mix of 1-3 bedroom units and 3 individual 3-bedroom town homes in a community called the Ox Bow. This would be a high-end housing community.

The following was presented by staff:

Building:	A fire-rated wall - a full separation wall with no separation. The state would require a variance for the opening in the parking garage since this spans county lines.
Water/Wastewater:	Will this need a 6" service? If so, there is a 6" main and 4" lateral currently. The 4" would have to be increased to the 6".
Stormwater:	Stormwater plans will be needed. The approval would be contingent upon review of the Stormwater & Erosion Control permit. DNR requirements will be in play with it being over 1 acre.
Engineering:	Parking lot must meet all ADA requirements including handicap stalls, curb ramps, etc. The concrete path along the riverside is intended for tenant use with potential future use for the public. The lighting plan shall be submitted. The southern end of the concrete path will be more of a plaza/walkway. The landscaping plan will not have any plantings in the right of way. The seawall needs to be confirmed that the condition is appropriate for the river walk.
Fire:	Page A302 of the plans mention a skywalk. There was verification that this will be enclosed if it is built. There were questions on the addressing. Sprinkler and fire systems will be in the design of the second building.
Streets:	Verified that there will be private garbage and recycling.
Parks:	There will be Park Fees in Lieu of Dedication and Park Improvement Fees required.
Mayor:	Is excited by this project.
Zoning:	There should be some enhancing of the southern building entrance with a canopy similar in style to the main entrance. This is the location the southern building will be addressed from. There will be 1 main entrance but both entrances need to be clearly marked.

Motion made by Emily McFarland and seconded by Maureen McBroom to approve this item and forward to Plan Commission contingent upon:

- Review and approval of the stormwater & erosion control permit.
- State variance approval
- Enhancing the southern entrance with scaled addressing
- ADA compliance in the parking lot

Unanimously approved.

B. Review and take action: 1504 S. Church Street

Alex Josue Blandon Robles was present. There is currently a grocery store at this location. This approval is required for the restaurant portion which is also going to Plan Commission to obtain a conditional use permit.

The following was presented by staff:

Building:	All fire, electrical, exit lighting and plumbing issues must be addressed with permits being obtained.
Water/Wastewater:	No comments.
Stormwater:	No comments.
Engineering:	No comments.
Fire:	Needs to verify that the new hood that has been installed is correct and any other requirements have been addressed.
Streets:	No comments.

Motion made by Mike Jacek and seconded by Tim Hayden to approve this item and forward to Plan Commission. Contingent upon:

- Approval of the hood system.
- Fire Department inspection.
- Submittal and approval of required permits with final inspections completed.

Unanimously approved.

C. Review and take action: 116 W. Main Street retail bakery with customer seating

Amber Yelk was present. This is for a proposed bakery with customer seating.

The following was presented by staff:

Building:	No comments.
Water/Wastewater:	No comments.
Stormwater:	No comments.
Engineering:	No comments.
Fire:	Asked about the convection oven. It is a fully ventless convection oven. Asked about the set of stairs on the plans. These are accessible to the basement only. What is the distance between the stairs and the case? Is this ADA compliant? The case is actually 8' to the left and against the wall. It meets ADA compliance.
Streets:	No comments.
Mayor:	Grateful for the downtown investment.

Motion made by Stacy Winkelman and seconded by Mike Jacek to approve this item and forward it to Plan Commission

Unanimously approved.

D. Review and take action: 301 E. Main Street bar and grill

Jerry and Deb Heller were present. They are moving their bar and grill to this location.

The following was presented by staff:

Building:	For any potential future work, ensure that permits are taken out.
Water/Wastewater:	No comments.
Stormwater:	No comments.

- Engineering:No comments.
- Fire:There is currently a Knox Box on the outside of the building that is currently 20’ high. It should be moved so that it’s no higher than 6’ high.
- Streets:No comments.

Motion made by Emily McFarland and seconded by Stacy Winkelman to approve this item and forward it to Plan Commission contingent upon:

- Knox Box being moved to no higher than 6’ for accessibility.

Unanimously approved.

E. Review and take action: 1013 S. Fifth Street review of storage building site plan

Tony of Lakeside Construction was present. The proposal is for construction of a 42’ x 75’ building to house a truck and trailer. The building will have a white roof with black trim.

The following was presented by staff:

- Building:Plans must be approved by the State of Wisconsin. Then submit the building permit application for review and approval.
- Water/Wastewater:Verified that there will not be any installation of floor drains or water at this time.
- Stormwater:The Erosion Control application has been received and is being reviewed.
- Engineering:The east side of the building should have pavement rather than gravel. The access will be off of S. Fifth Street which currently is an unimproved road. The department will review records to see if there are any further requirements needed for this project.
- Fire:Exit lights should have egress illumination to be built in or a separate unit and there should be a fire extinguisher at each door.
- Streets:No comments.

Motion made by Emily McFarland and seconded by Andrew Beyer to approve this item and forward it to Plan Commission contingent upon:

- State of Wisconsin plan approval
- Approval of the Erosion Control permit
- Exit light illumination
- Fire Extinguisher placement
- Improved right of way

Unanimously approved.

F. Review and take action: 318 Union Street – Temporary Use

Owner Daniel Benninger was present. There was a fire at this location. The request is for a 33’ trailer to be placed in the driveway of the property for the owner to live in until the fire renovations are completed.

The following was presented by staff:

- Building:Verified that a temporary electrical service will be installed. Also stated that the proper backflow prevention is included with any plumbing on the property. Also, the RV shall be placed off the property line as far as possible. Ensure permits are submitted for the temporary service and other work for the fire renovation.
- Water/Wastewater:No comments.
- Stormwater:No comments.
- Engineering:No comments.
- Fire:No comments.
- Streets:No comments.

Zoning: The Temporary permit would be good for 6 months and then would need to be revisited, if needed.

Motion made by Mike Jacek and seconded by Emily McFarland to approve this item and forward it to Plan Commission contingent upon:

- Location of the RV being close to the house
- Submittal of the required permits.

Unanimously approved.

4. Adjournment

Motion was made by Emily McFarland and seconded by Tim Hayden to adjourn. Unanimously approved.

Respectfully submitted,
Nikki Zimmerman
Recording Secretary

NOTE: These minutes are uncorrected, and any corrections made thereto will be noted in the proceedings at which these minutes are approved.

1. ALL REMOVALS TO BE COMPLETED BY CITY OF WATERTOWN STREET DEPARTMENT.
2. ALL STORM SEWER INSTALLATIONS TO BE COMPLETED BY CITY OF WATERTOWN STREET DEPARTMENT.
3. ALL PERMEABLE PAVER INSTALLATIONS TO BE COMPLETED BY CITY OF WATERTOWN STREET DEPARTMENT.
4. CONCRETE ADA RAMP STRUCTURE AND LIGHTING TO BE CONSTRUCTED BY OTHERS.
5. BITUMINOUS SURFACING TO BE PAVED BY OTHERS.
6. PAVEMENT MARKING TO BE PERFORMED BY OTHERS.

✓ INSTALL 80 L.F.
DECORATIVE RAILING

—INSTALL 680 S.F.—DOUBLE THICKENED EDGE CONCRETE SIDEWALK, 5-INCH. SEE DETAIL 1/2

CONSTRUCT 20 L.F.
PEDESTRIAN CURB

INSTALL 28 L.F.
DECORATIVE RAILING

— MATCH ADA RAMP
STRUCTURE

END 4" SIDEWALK
BEGIN DOUBLE T
EDGE SIDEWALK

MATCH EX. WOOD
BOARDWALK —

INSTALL 32 L.F.
DECORATIVE RAILING

END DOUBLE THICKENED EDGE
BEGIN SINGLE THICKENED EDGE
SIDEWALK _____

INSTALL 889 S.F.—SINGLE THICKENED
EDGE CONCRETE SIDEWALK, 5-INCH.
SEE DETAIL 2/2 _____

INSTALL 35.23 L.F.—12"X6"
CONCRETE CURB TYPE D—

MATCH EX. SIDEWALK

INSTALL 67.46 S.F.
12"X8" CONC. BORDER

INSTALL 135.30 S.F
12"X8" CONC. BORDER

INSTALL 80.64 S.F.
6" SIDEWALK

112 S. FIRST BL.

INSTALL 135.30 S.F
12"X8" CONC. BORDER

INSTALL 259 S.F.
4" SIDEWALK

INSTALL 43 L.F.-30" CONCRETE CURB & GUTTER TYPE D

— INSTALL 7.75 S.F.

- INSTALL 2 L.F.-30" CONCRETE CURB & GUTTER TYPE D^{on}

INSTALL 6 L.F.-30" CONCRETE CURB & GUTTER TYPE 3

INSTALL 22.43 S.F.
4" SIDEWALK

✓ INSTALL 118 S.F.
6" SIDEWALK

INSTALL 15.42 S.Y.
6" CONC. APRON.

MATCH EX. SIDEWALL

INSTALL 42.47 L.F.-12"X6"
CONCRETE CURB TYPE D-

INSTALL 108.56 S.F.
5" SIDEWALK _____

S. FIRST STREET

INSTALL 42.68 L.F.-12"X6"
CONCRETE CURB TYPE D

INSTALL 32 L.F.-30" CONCRETE
CURB & GUTTER TYPE A

68 L.F.-12"X6"
URB TYPE D

SCALE: 1"=20'

Diagram showing a cross-section detail of a bridge deck and approach slab. The bridge deck is 6' wide and 5' high. The approach slab is 8' high and 12' wide. The bridge deck is supported by a pier. The approach slab is supported by a pier. The bridge deck is finished with asphalt grade. The approach slab is finished with asphalt grade. The diagram is labeled "DETAIL 1/2".

5'

12"

FINISHED ASPHALT GRADE

DETAIL 2/2

275 West Wisconsin Avenue,
Suite 300
Milwaukee, WI 53203
414 / 259 1500

www.graef-usa.com

CLIENT:
CITY OF WATERTOWN

PROJECT TITLE:
PLAZA PHASE II - ADA COMPLIANT
CONCRETE RAMP AND STAIR

1 EAST MAIN STREET
WATERTOWN, WISCONSIN 53094

ISSUE:
01 2025-03-24 ADDENDUM #02

PROJECT INFORMATION:
PROJECT NUMBER: 2023-0158
DATE: 2025-03-24
DRAWN BY: RMG
CHECKED BY: CWH
APPROVED BY: CWH
SCALE: AS NOTED

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:

G-001

7

CITY OF WATERTOWN

PLAZA PHASE II - ADA COMPLIANT CONCRETE RAMP AND STAIR

1 EAST MAIN STREET
WATERTOWN, WISCONSIN 53094

SHEET INDEX

TITLE SHEET

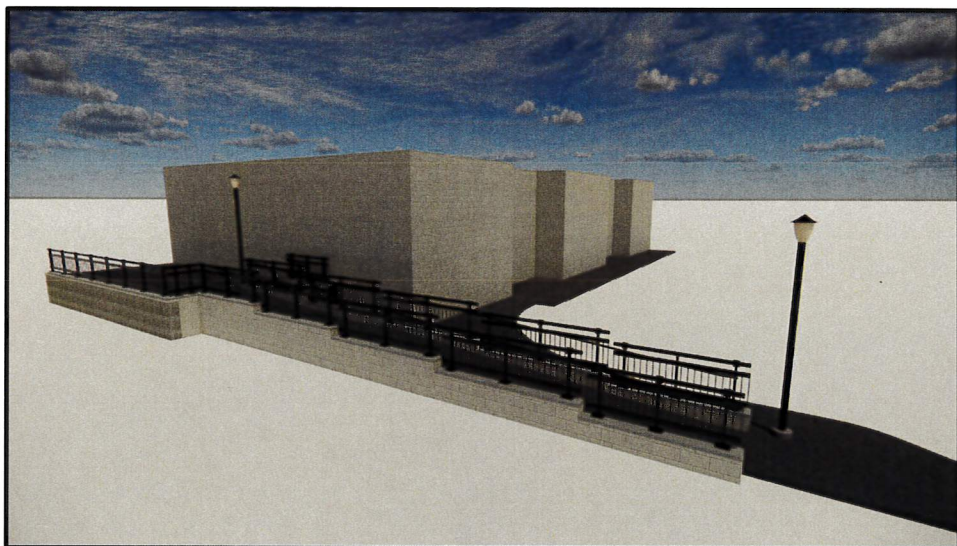
G-001 TITLE SHEET

COMBINED ARCHITECTURAL-STRUCTURAL

A-100 ADA RAMP SITE PLAN
A-101 ADA RAMP AND STAIR PLANS AND DETAILS

ELECTRICAL

E-100 ADA RAMP SITE PLAN - ELECTRICAL
E-101 ADA RAMP SITE PLAN - PHOTOMETRIC
E-601 ELECTRICAL SCHEDULES
E-901 ELECTRICAL SPECIFICATIONS



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INFORMATION PERTAINING TO EXISTING PROJECT CONDITIONS, SUCH AS LOCATIONS OF ARCHITECTURAL AND STRUCTURAL BUILDING COMPONENTS, MECHANICAL AND ELECTRICAL EQUIPMENT, PIPING, DUCTWORK, ROUGHINS AND OTHER MISCELLANEOUS CONSTRUCTION, APPEARS ON PROJECT DRAWINGS. THIS INFORMATION IS BASED ON AVAILABLE RECORDS AS WELL AS INFORMATION COLLECTED WITH REASONABLE CARE AT THE PROJECT SITE. CONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR VERIFYING DIMENSIONS AND RELATED INFORMATION AT THE PROJECT SITE PRIOR TO PROCURING ANY MATERIALS, PRODUCTS OR EQUIPMENT TO PERFORM THEIR WORK.

STRUCTURAL



ARCHITECTURAL



275 West Wisconsin Avenue,
Suite 300
Milwaukee, WI 53203
414 / 259 1500

www.graef-usa.com

CLIENT:
CITY OF WATERTOWN

PROJECT TITLE:
PLAZA PHASE II - ADA COMPLIANT
CONCRETE RAMP AND STAIR

1 EAST MAIN STREET
WATERTOWN, WISCONSIN 53094

ISSUE:
01 2025-03-24 ADDENDUM #02

PROJECT INFORMATION:
PROJECT NUMBER: 2023-0158
DATE: 2025-03-24
DRAWN BY: RMG/GRC
CHECKED BY: CWH/RGC
APPROVED BY: CWH/GRC
SCALE: AS NOTED

SHEET TITLE:
ADA RAMP SITE PLAN

SHEET NUMBER:

A-100

RAMP DESIGN REQUIREMENTS

ADA ACCESSIBLE RAMPS AND STAIRS SHALL COMPLY WITH 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

SECTION 405 REQUIREMENTS AS FOLLOWS:

RAMP SLOPE

- SLOPE REQUIREMENTS $\geq 1:20 \leq 1:12$
- SLOPE PROVIDED $= 1:12$
- CROSS SLOPE REQUIREMENTS $\leq 1:48$
- CROSS SLOPE PROVIDED $= 1:48$

FLOOR SURFACES

- SURFACE REQUIREMENTS $=$ SLIP RESISTANT
- SURFACE PROVIDED $=$ CONCRETE WITH BROOM FINISH

RAMP RUN AND LANDING REQUIREMENTS

- RAMP RUN RISE REQUIREMENTS $= 30"$ MAXIMUM RISE HEIGHT
- RAMP RUN RISE PROVIDED $= 24"$ RISE HEIGHT
- CLEAR RUN WIDTH REQUIREMENT $= 36"$ CLEAR
- CLEAR RUN WIDTH PROVIDED $= 48"$ CLEAR
- LANDING WIDTH REQUIREMENTS $=$ MINIMUM WIDTH OF RAMP RUN
- LANDING WIDTH PROVIDED $= 48"$ CLEAR
- LANDING CLEAR LENGTH REQUIRED $= 60"$ MINIMUM
- LANDING CLEAR LENGTH PROVIDED $= 60"$ CLEAR
- LANDINGS REQUIRED AT BOTTOM AND TOP OF EACH RAMP RUN.

HANDRAILS

- HANDRAILS AND HANDRAIL SUPPORTS MUST BE OUTSIDE OF THE CLEAR WIDTH.
- RAMP RUNS WITH A RISE GREATER THAN 6 INCHES SHALL HAVE HANDRAILS COMPLYING WITH SECTION 505 OF A117.1
- HANDRAILS NEED TO BE PROVIDED ON BOTH SIDES OF RAMPS AND STAIRS.
- HANDRAILS NEED TO BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH RAMP RUN OR STAIR FLIGHT.
- HANDRAIL HEIGHT TO TOP OF GRABBING SURFACE:
 - HEIGHT FROM RAMP SURFACE $= 34" - 38"$
 - HEIGHT FROM STAIR NOSING $= 34" - 38"$
- HANDRAILS SHALL BE AT A CONSISTENT HEIGHT
- CLEARANCE BETWEEN HANDRAIL SURFACE AND ADJACENT SURFACES SHALL BE 1 1/2" MINIMUM.
- TOP AND BOTTOM EXTENSIONS SHALL BE 12" MINIMUM AND EXTEND OUT IN THE SAME DIRECTION OF TRAVEL AND SHALL TURN DOWN EITHER TO THE GROUND OR BACK INTO THE LAST RAIL POSTS. SEE SECTION 505.10 OF THE 2010 ADA STANDARDS FOR HANDRAIL EXTENSION REQUIREMENTS.

STRUCTURAL DESIGN SPECIFICATIONS

1. DESIGN IS IN ACCORDANCE WITH THE STATE OF WISCONSIN AND THE 2015 INTERNATIONAL BUILDING CODE.

2. MINIMUM 28 DAY CONCRETE CYLINDER STRENGTH SHALL BE:

FOOTINGS	3000 PSI
FOUNDATION WALLS	4000 PSI
SLABS ON GRADE	4000 PSI

3. REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.

4. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 NORMAL WEIGHT UNITS. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS SHALL BE $f_m = 2000$ PSI.

5. MORTAR SHALL CONFORM TO ASTM C270 TYPE S.

6. MASONRY GROUT SHALL CONFORM TO ASTM C476. MINIMUM COMPRESSIVE STRENGTH SHALL BE $f_g = 2000$ PSI.

7. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY CONSTRUCTION SHALL BE $f_m = 2000$ PSI.

8. STRUCTURAL STEEL PLATES SHALL CONFORM TO THE FOLLOWING:

THICKNESS $\geq 1/8"$	ASTM A1011 CS TYPE B (OR APPROVED EQUAL)
3/16" \leq THICKNESS $\leq 1/2"$	ASTM A572 GRADE 50
THICKNESS $\leq 1/8"$	ASTM A36

9. ASSUMED BEARING CAPACITY FOR SPREAD FOOTINGS IS 1500 PSF.

10. DESIGN LOADS:

FLOOR LIVE LOAD	100 PSF
STAIRS AND EXIT WAYS	

EARTHWORK

1. FOOTINGS SHALL BE CAST ON UNDISTURBED SUBSOIL. IF DESIGN CAPACITY IS NOT ENCOUNTERED AT THE ELEVATIONS SHOWN, FOOTINGS MUST BE LOWERED. CONSULT ENGINEER BEFORE PROCEEDING.

2. NO HOLES, TRENCHES OR DISTURBANCES OF THE SOIL SHALL BE ALLOWED WITHIN THE VOLUME DESCRIBED BY 45 DEGREE LINES SLOPING FROM THE BOTTOM EDGE OF THE FOOTING. IF SUCH ARE REQUIRED, FOOTINGS MUST BE LOWERED.

3. BACKFILL EVENLY ON EACH SIDE OF FOUNDATION WALLS AND RETAINING WALLS.

4. TOPSOIL AND FILL BELOW SLABS ON GROUND SHALL BE REMOVED. AGGREGATE BASE COURSE UNDER SLABS ON GROUND SHALL BE COMPACTED TO 5-INCH LAYERS (EXCEPT WHERE LOOSE FILL IS INDICATED ON DRAWINGS).

5. BACKFILL AGAINST EXTERIOR FOUNDATION WALLS SHALL BE COMPACTED TO MAXIMUM 6-INCH LAYERS.

CONCRETE

1. FORMWORK SHALL BE DESIGNED IN ACCORDANCE WITH THE ACI "MANUAL OF CONCRETE PRACTICE", LATEST EDITION.

2. REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH THE ACI "MANUAL OF CONCRETE PRACTICE", LATEST EDITION, UNLESS OTHERWISE NOTED.

3. LAP ALL WALL BARS 30 DIAMETERS UNLESS OTHERWISE DETAILED. LAP WELDED WIRE MESH 6 INCHES.

4. PROVIDE COLUMN AND WALL DOWELS OF THE SAME SIZE AND NUMBER AS THE RESPECTIVE COLUMN AND WALL REINFORCING UNLESS OTHERWISE DETAILED.

5. CONCRETE PROTECTION FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318-14.

6. SLABS ON GRADE SHALL BE CAST ALLOWING A SUFFICIENT NUMBER OF JOINTS TO ADEQUATELY CONTROL SHRINKAGE CRACKING. SAWCUTTING SHALL BE DONE AS SOON AS SAWCUT WILL NOT RAVEL CONCRETE OR WITHIN 24 HOURS MAXIMUM OF INITIAL POURING OPERATION. MAXIMUM SIZE OF PANELS SHALL BE 15 FEET BY 15 FEET FOR 6-INCH SLAB ON GRADE.

7. EXTERIOR SLABS ON GRADE SHALL BE 6 INCHES THICK AND REINFORCED WITH 6#4-W2.1W2.1 WELDED WIRE FABRIC.

8. ALLOW AT LEAST 24 HOURS BEFORE POURING ADJACENT WALL SECTIONS BETWEEN CONSTRUCTION JOINTS. MAXIMUM LENGTH OF POUR TO BE 40 FEET. UNLESS CRACK INDUCERS ARE USED AS DETAILED ON THE DRAWINGS.

9. CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 24 HOURS PRIOR TO PLACING CONCRETE.

10. CONSTRUCTION JOINTS IN BEAMS, JOISTS OR SLABS TO BE LOCATED BETWEEN THE 1/4 POINT AND CENTERLINE OF SPAN, OR AS DIRECTED BY THE ENGINEER.

11. DO NOT PLACE OR CUT HOLES IN CONCRETE SLABS, BEAMS, WALLS OR COLUMNS WITHOUT PRIOR APPROVAL OF THE ENGINEER.

12. EXTERIOR EXPOSED CONCRETE SHALL BE AIR-ENTRAINED. AIR CONTENT SHALL BE 6 PERCENT (± 1 1/2 PERCENT).

13. PIPES AND CONDUITS EMBEDDED IN OR PASSING THROUGH STRUCTURAL MEMBERS MUST BE APPROVED BY THE STRUCTURAL ENGINEER. PIPE AND CONDUITS EMBEDDED IN CONCRETE SHALL NOT BE LARGER THAN 2 INCHES IN OUTSIDE DIAMETER AT THEIR WIDEST POINT OR FITTING OR 1/3 OF THE THICKNESS OF THE SLAB, BEAM OR WALL.

14. ELECTRICAL CONDUIT OR PIPES EMBEDDED IN OR PASSING THROUGH SLABS, BEAMS OR WALLS SHALL BE LOCATED AND PLACED SO THAT:

1. THEY ARE NOT CLOSER THAN THREE DIAMETERS ON CENTER.
2. THE CONCRETE COVER IS NOT LESS THAN 2 INCHES.
3. THEY RUN BETWEEN REINFORCING AND DO NOT DISPLACE IT IN ANY MANNER.

15. ALUMINUM CONDUITS SHALL NOT BE PLACED IN CONCRETE.

16. CHAMFER ALL EXPOSED CONCRETE CORNERS. SEE ARCHITECTURAL/STRUCTURAL DRAWINGS FOR REQUIREMENTS.

17. CONCRETE SHALL BE TESTED BY THE OWNER'S TESTING LAB. REFER TO SPECIFICATIONS FOR REQUIREMENTS.

18. PROPER CURING PROCEDURES SHALL BE USED FOR SLAB ON GRADE TO PREVENT CURLING.

19. CALCIUM CHLORIDE SHALL NOT BE USED IN CONCRETE MIXES.

20. PROVIDE WATERSTOPS AT ALL CONSTRUCTION JOINTS BELOW THE WATER TABLE AND AS SHOWN ON DRAWINGS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

CONCRETE MASONRY

1. PRODUCTION AND CONSTRUCTION OF CONCRETE MASONRY SHALL BE IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", ACI 530-13, AND THE NCM "TEK MANUAL FOR CONCRETE MASONRY DESIGN AND CONSTRUCTION", LATEST EDITION.

2. HOT AND COLD WEATHER CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE IMAC (INTERNATIONAL MASONRY INDUSTRY ALL-WEATHER COUNCIL) "RECOMMENDED PRACTICES AND GUIDE SPECIFICATIONS FOR HOT AND COLD WEATHER MASONRY AND CONSTRUCTION".

3. CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.

4. MASONRY WALLS SHALL BE ADEQUATELY BRACED TO RESIST WIND FORCES UNTIL PERMANENT DESIGN SUPPORTS ARE IN PLACE AND FUNCTIONAL. BRACING SHALL BE DESIGNED BY THE CONTRACTOR.

5. PROVIDE DOWELS INTO FOUNDATION THE SAME SIZE AND NUMBER AS WALL REINFORCING.

5. LAP REINFORCING BARS 48 DIAMETERS.

7. CONCRETE MASONRY WALLS SHALL BE REINFORCED AT EVERY OTHER BED JOINT WITH 3/16-INCH TRUSS TYPE JOINT REINFORCEMENT.

8. VERTICAL BARS SHOWN ON THE DESIGN DRAWINGS SHALL BE PLACED IN A CONTINUOUS UNOBSTRUCTED CELL OF NOT LESS THAN 3 INCHES BY 4 INCHES.

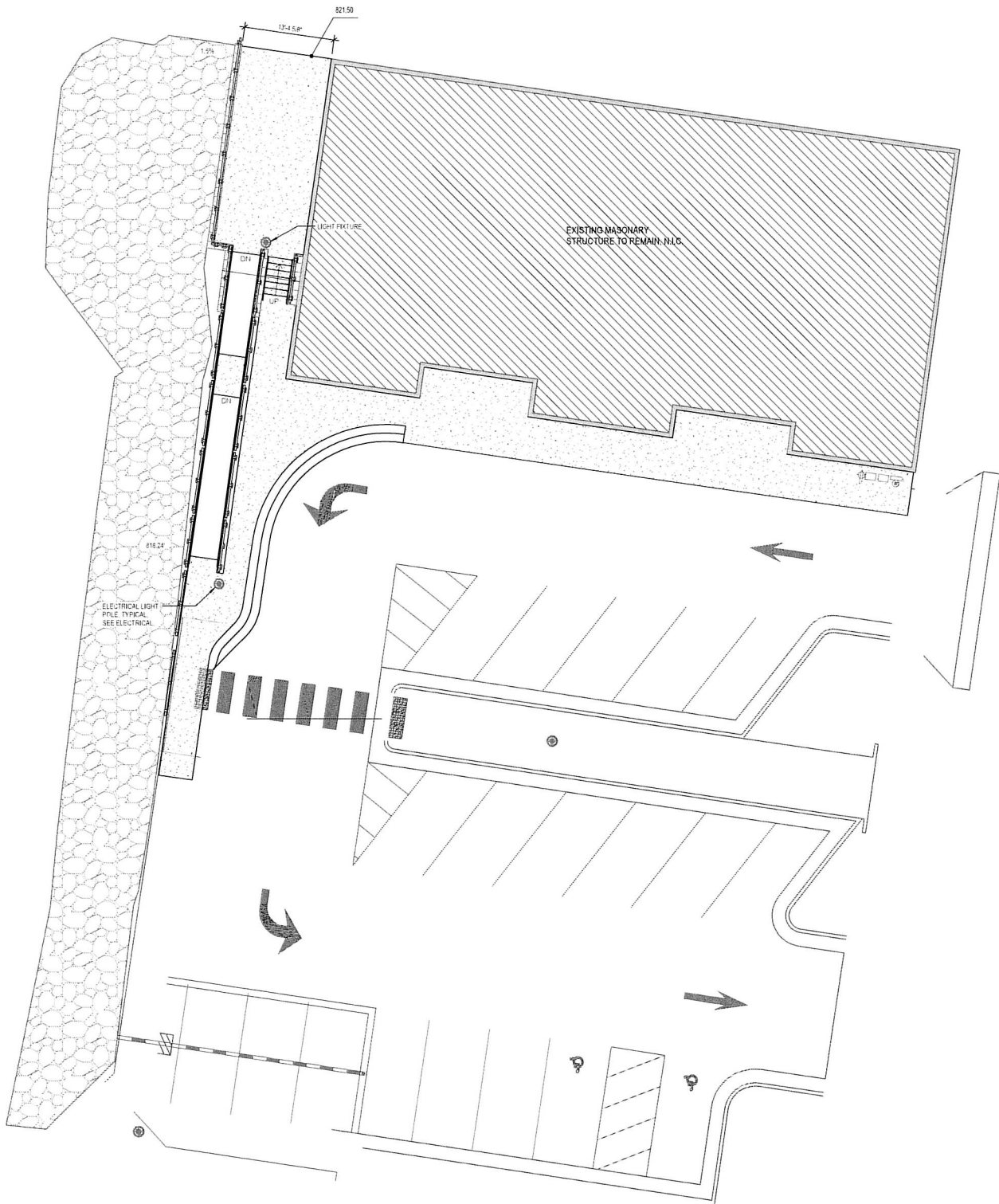
9. ALL BOND BEAMS AND PILASTERS SHALL BE REINFORCED AS SHOWN ON THE DESIGN DRAWINGS AND FILLED WITH GROUT.

MISCELLANEOUS

1. DIMENSIONS OF EXISTING CONSTRUCTION OR CONSTRUCTION IN PROGRESS SHALL BE VERIFIED AND COORDINATED PRIOR TO FABRICATION OF STRUCTURAL COMPONENTS.

2. VERIFY AND COORDINATE WITH ALL CONTRACTORS THE LOCATION OF ALL ARCHITECTURAL AND MECHANICAL APURTENANCES AND OPENINGS.

3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE FOLLOWING ITEMS PRIOR TO FABRICATION: REINFORCING BARS.



275 West Wisconsin Avenue,
Suite 300
Milwaukee, WI 53203
414 / 259 1500

www.grael-usa.com

CITY OF WATERTOWN

PROJECT TITLE:
PLAZA PHASE II - ADA COMPLIANT
CONCRETE RAMP AND STAIR

1 EAST MAIN STREET
WATERTOWN, WISCONSIN 53094

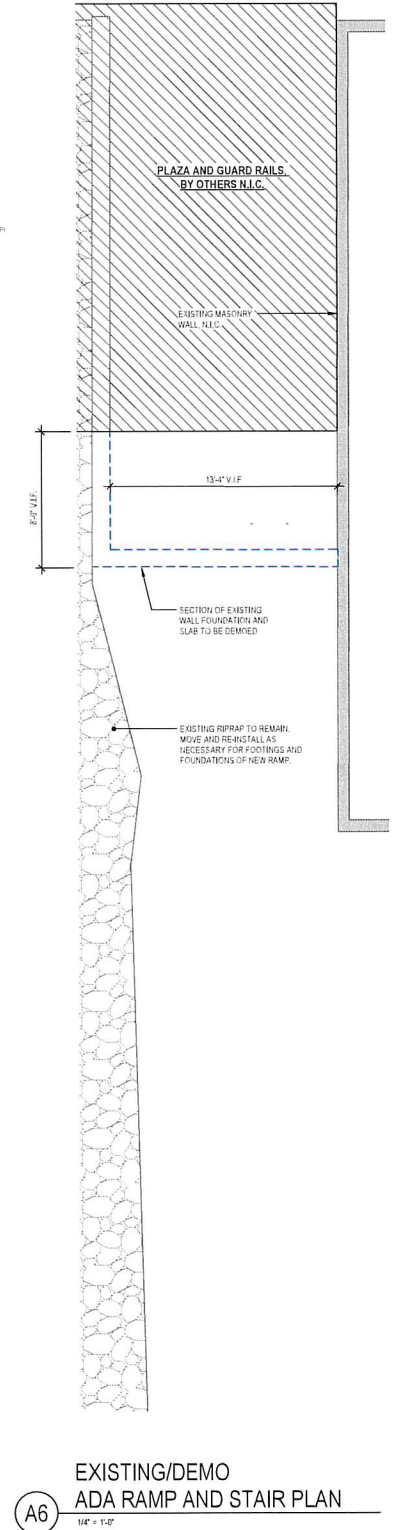
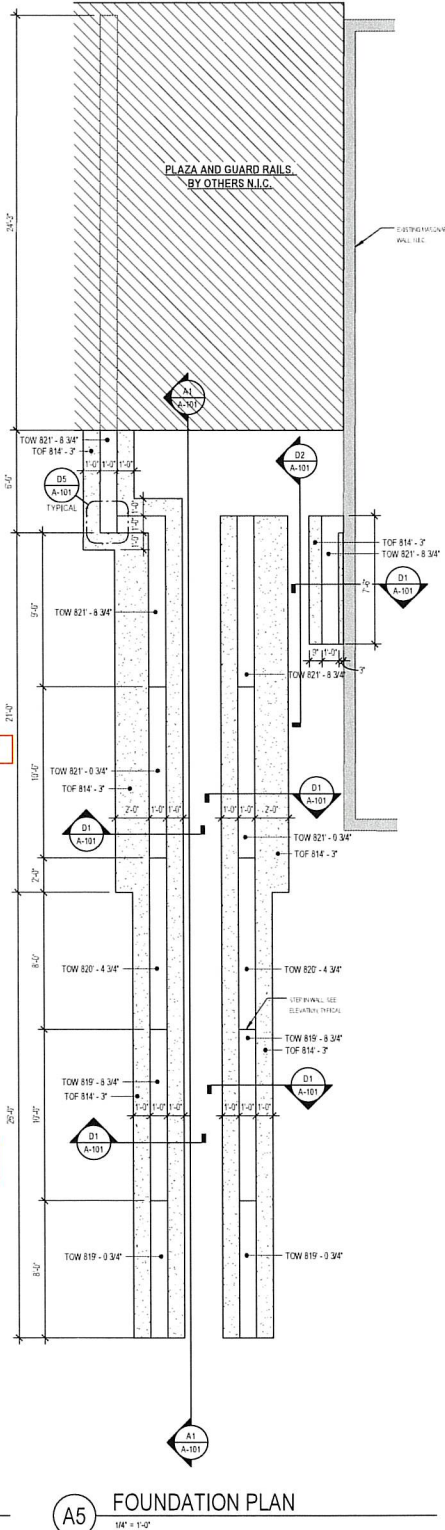
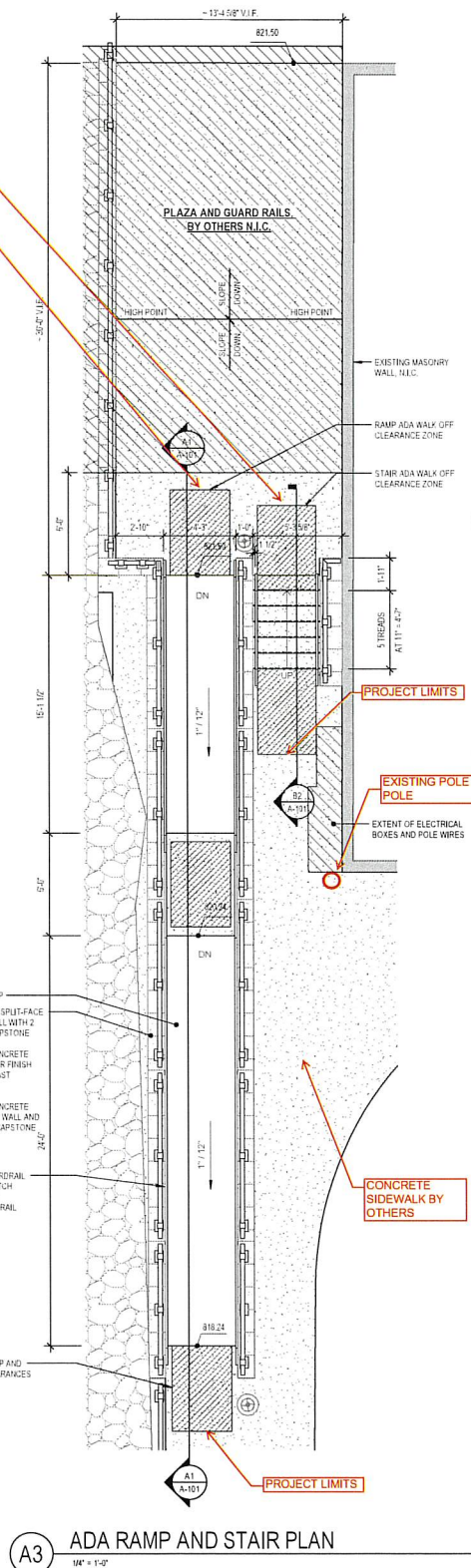
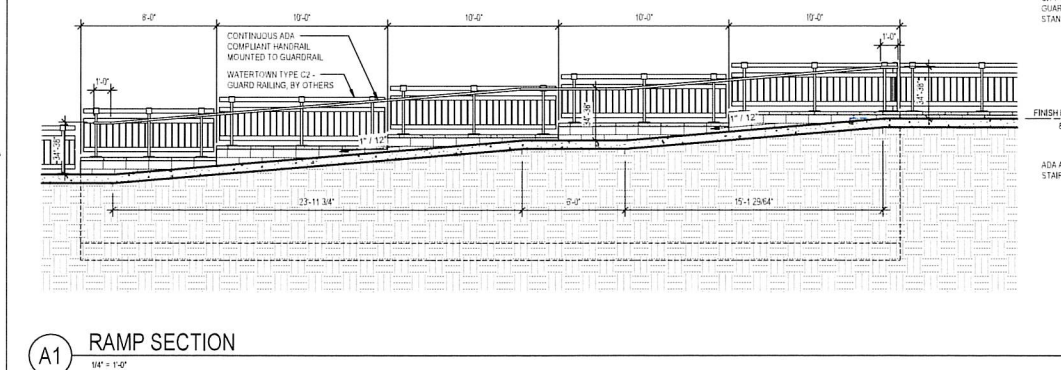
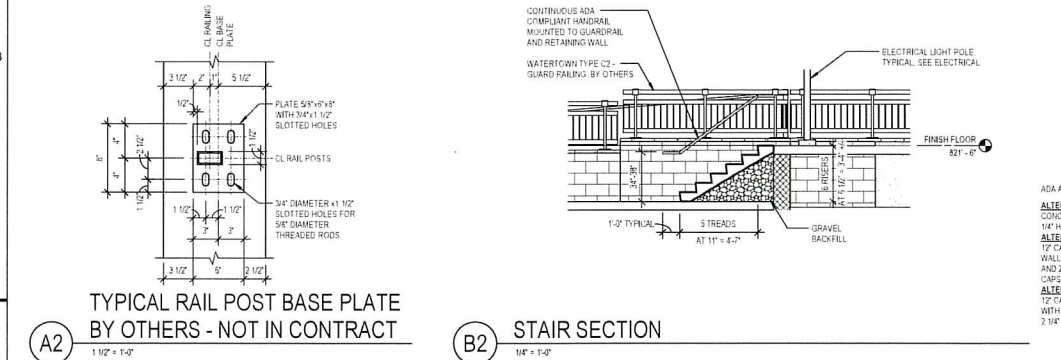
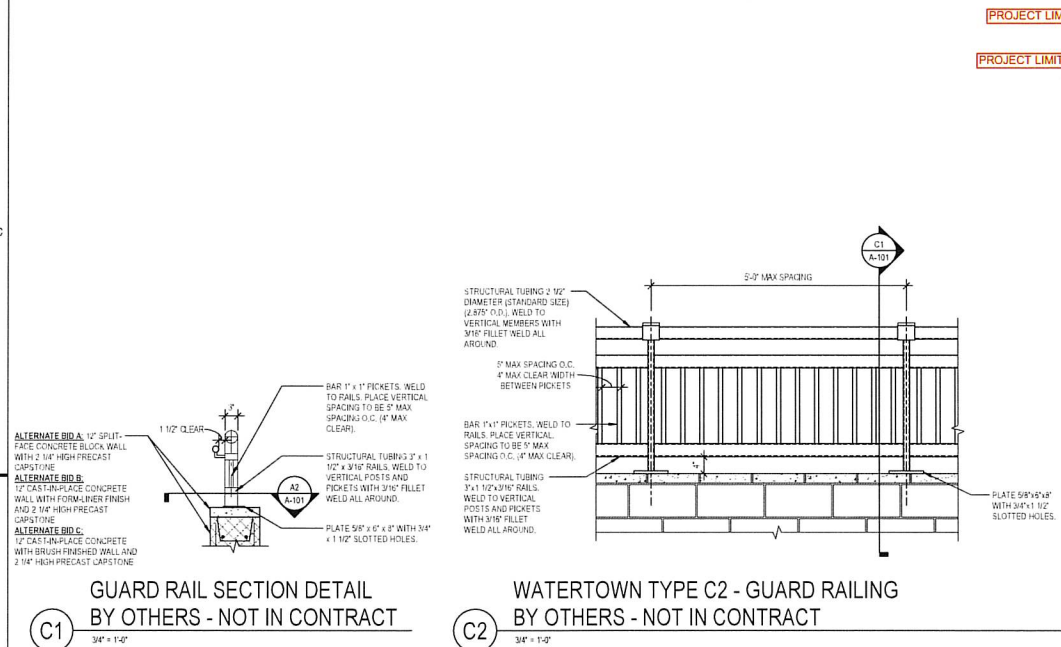
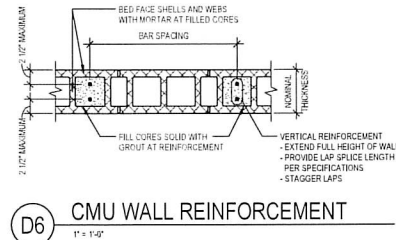
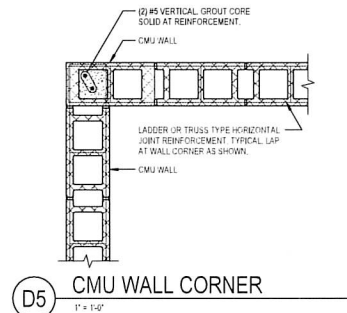
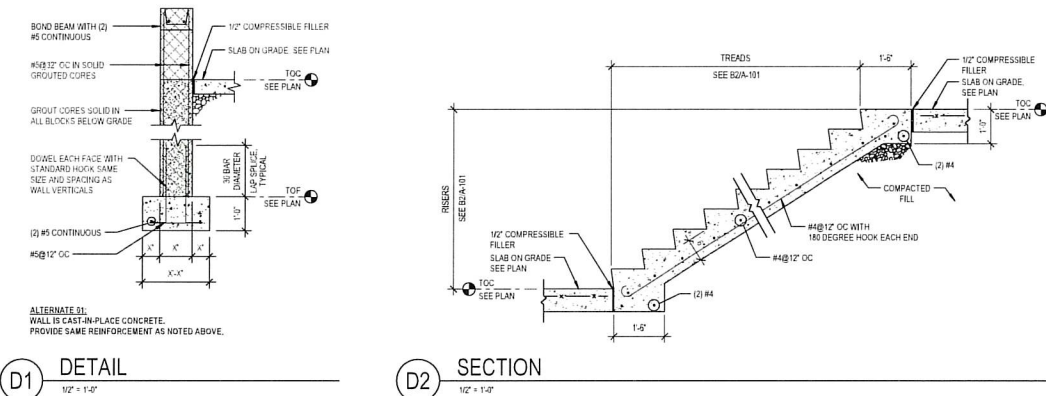
ISSUE:
01 2025-03-24 ADDENDUM #02

PROJECT INFORMATION:
PROJECT NUMBER: 2023-0158
DATE: 2025-03-24
DRAWN BY: RMG/GRC
CHECKED BY: CWH/RGC
APPROVED BY: CWH/GRC
SCALE: AS NOTED

SHEET TITLE:
ADA RAMP AND STAIR PLANS AND
DETAILS

SHEET NUMBER:

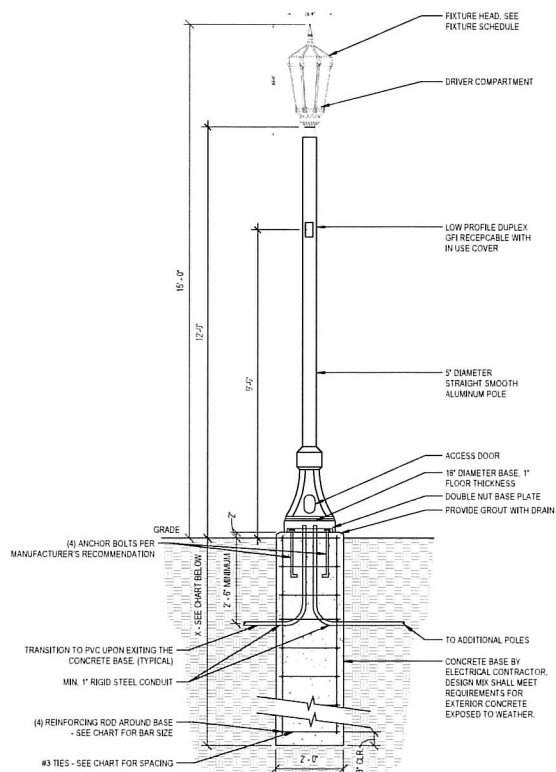
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LIGHTING FIXTURES

- POLE MOUNTED WITH ARM
- POST TOP POLE
- BOLLARD
- FLOOD LIGHT



NOTES

- A drilled 2-4" dia. hole shall be used as the form for the concrete base in undisturbed earth, excluding fill material.
- Backfill around concrete base with compacted granular base a minimum of 2-4" in all directions in excavated areas or in existing soil containing fill of objectionable material.
- Design based on IRC 2015 150 MPH WIND SPEED - EXPOSURE C (1609.4.3) 150 PSF FT - LATERAL SOIL PRESSURE (1610) OCCUPANCY CATEGORY II (1604.5) IMPORTANCE FACTOR 1.0 (ASCE 7 TABLE 1.5-1)

POLE HEIGHT	X	REBAR SIZE	#3 TIE SPACING
12'-0"	7'-0"	#5	12"

A1 LIGHT FIXTURE POLE BASE DETAIL FLUSH

NTS

A3 ELECTRICAL SITE PLAN

1/8" = 1'-0"

SHEET KEYNOTES

- OR CUT NEW LIGHTS TO EXISTING PANEL LABELED "SOUTH PANEL". UTILIZE CIRCUIT BREAKER CURRENTLY USED FOR ADJACENT EXISTING LIGHT FIXTURES. PROVIDE NEW CONDUIT AND WIRE FROM PANEL TO POLES. USE 3/4" ID 1" CONDUIT.
- EXISTING ELECTRICAL EQUIPMENT TO REMAIN ELECTRICAL METER STACK METER ELECTRICAL LOCK CENTER "SOUTH PANEL". ELECTRICAL JUNCTION BOX WEATHER-PROOF DUPLEX RECEPTACLE.

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CLIENT:
CITY OF WATERTOWN

PROJECT TITLE:
PLAZA PHASE II - ADA COMPLIANT
CONCRETE RAMP AND STAIR

1 EAST MAIN STREET
WATERTOWN, WISCONSIN 53094

ISSUE:
01 2025-03-24 ADDENDUM #02



PROJECT INFORMATION:

PROJECT NUMBER: 2023-0158
DATE: 2025-03-24
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APPROVED BY: ES
SCALE: AS NOTED

SHEET TITLE:

ADA RAMP SITE PLAN -
ELECTRICAL

SHEET NUMBER:

E-100

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PLAZA PHASE II - ADA COMPLIANT
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ISSUE:
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PROJECT INFORMATION:
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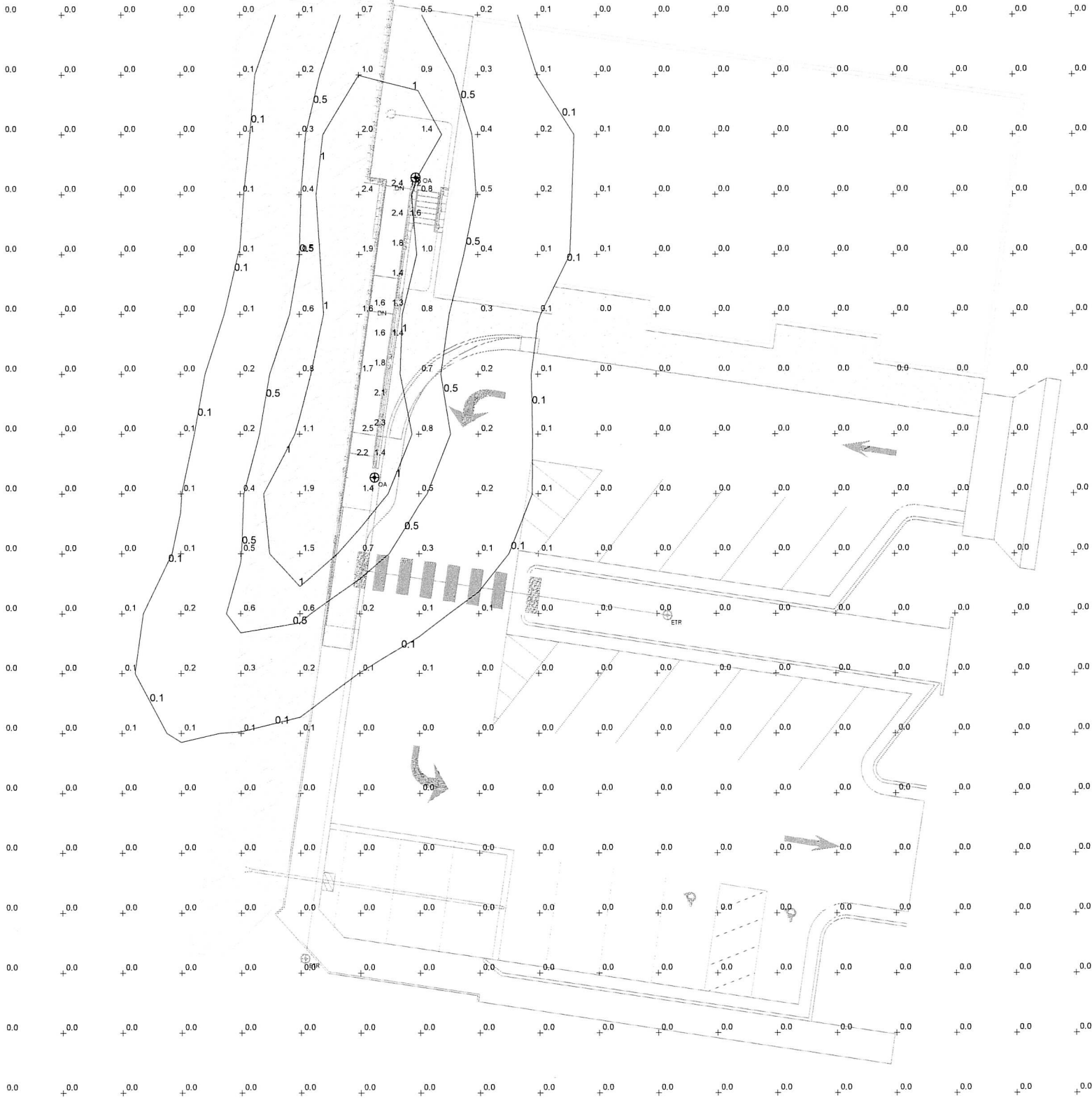
SHEET TITLE:
ADA RAMP SITE PLAN -
PHOTOMETRIC

SHEET NUMBER:

E-101

GENERAL SHEET NOTES

1. THE CALCULATIONS SHOWN ON THIS SHEET DO NOT INCLUDE CONTRIBUTIONS FROM EXISTING ADJACENT LIGHT FIXTURES.



Statistics					
Description	Avg	Max	Min	Max/Min	Avg/Min
Ramp	1.8 fc	2.4 fc	1.2 fc	2.0:1	1.5:1

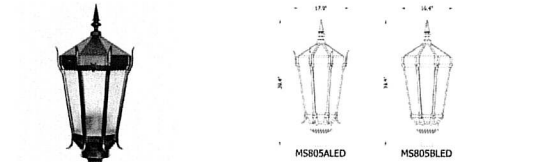
A3 ELECTRICAL PHOTOMETRIC PLAN
1/8" = 1'-0"

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LIGHT FIXTURE SCHEDULE										
GENERAL NOTES:										
A. SEE SPECIFICATION SECTION FOR ADDITIONAL INFORMATION REGARDING FIXTURE AND INSTALLATION REQUIREMENTS.										
B. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED PARTS AND PIECES FOR A COMPLETE INSTALLATION.										
C. ALL REMOTE DRIVERS SHALL BE LOCATED IN AN ACCESSIBLE LOCATION THAT MEETS THE AMBIENT TEMPERATURE REQUIREMENTS OF THE DRIVER. ELECTRICAL CONTRACTOR SHALL VERIFY WITH SUBMITTED SHIP DRAWING WIRING DIAGRAMS THAT ALL DRIVER LOCATIONS ARE WITHIN MANUFACTURER'S RECOMMENDED DISTANCE REQUIREMENTS.										
NOTES:										
1. PROVIDE LIGHT FIXTURE WITH LOW PROFILE DUPLEX GFI RECEPTACLE WITH IN USE COVER.										
2. PROVIDE 18" DIAMETER BASE AS SHOWN ON OUTSHEET ON THIS PAGE.										
TAG	PERFORMANCE & ELECTRICAL DATA				LIGHT FIXTURE PROPERTIES			OPTIONS & ACCESSORIES		SEE NOTE
	LUMENS	KELVIN TEMP	LOAD	FIXTURE VOLTAGE	DESCRIPTION	MANUFACTURER	CATALOG SERIES	DEPTH OR HEIGHT	ACCESSORIES / DOOR / REFLECTOR / TRIM TYPE	
DA	2670	4000	27 VA	120-277V	DECORATIVE POST TOPLED WITH PHOT-CONTROL	STERNBERG	PTA6595BLED-8DS-12L-40-T3-MDL008-SV1-PEC-BKT	15'-0"	BLACK 5" ROUND STRAIGHT SMOOTH ALUMINUM	12 POLE 1 2

Configured Specification Sheet

Project Name: PLAZA PHASE II ADA COMPLIANT CONCRETE RAMP AND STAIR
Type: ADA Catalog / Part Number: PTA6595BLED-8DS-12L-40-T3-MDL008-SV1-PEC-BKT Qty: 2



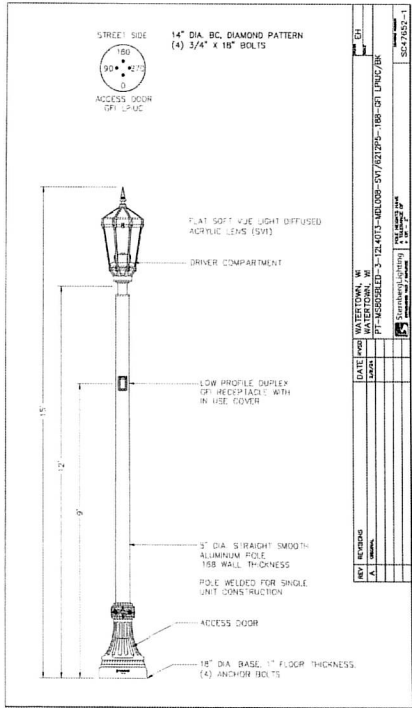
Certifications: The MS905LED or MS905LED Series Street Light is a large scale modern replica of a popular street lighting fixture. Available with apertures (A) or with no apertures (B). The color temperature (measured in Kelvin) is dependent on the selected fixture. The luminaire includes individual tapered lenses oriented in a variety of angles.

Mounting Configuration:

Mounting Configuration	Features
1. Post Mount	1. 1 Arm Mount
2. 2 Arm Mount	2. 2 Arm Mount
3. 3 Arm Mount	3. 3 Arm Mount
4. 4 Arm Mount	4. 4 Arm Mount
5. 5 Arm Mount	5. 5 Arm Mount
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Visit our website for the latest in lighting technology and products. We are committed to providing the best lighting solutions for your project.



LIGHT FIXTURE SCHEDULE ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS INDICATED HERE ARE USED IN THE SCHEDULE AND MAY NOT APPLY TO CURRENT PROJECT.

ACCESSORIES / DOOR / REFLECTOR / TRIM TYPE

AS = ASYMMETRIC
B = Baffle Reflector
CR = CONTINUOUS RUN
D = DIRECT
DIR = DIRECT / INDIRECT
DG = DOUBLE GASKETED DOOR FRAME
EM = REMOTE EMERGENCY DRIVER
ID = INDIRECT
S = SYMMETRIC
SG = SINGLE GASKETED DOOR FRAME
SS = STAINLESS STEEL TRIM AND DOOR FRAME
SR = STANDARD REFLECTOR
TG = TRIPLE GASKETED DOOR FRAME, LENS AND BODY
VR = VANDAL RESISTANT
WG = WIRE GUARD
WW = WALL WASH

COLOR / FINISH

B = BLACK
BZ = BRONZE
C = CLEAR
CU = COPPER
CUS = CUSTOM PAINTED FINISH - COLOR AS SELECTED BY ARCHITECT
DBZ = DARK BRONZE
G = GOLD
GL = GLOSS
M = MATTE
NA = NATURAL ALUMINUM
RAL = RAL NUMBER
S = SILVER
SSP = SEMI-SPECULAR / HAZE
W = WHITE

DIMMING TYPE

0-10V-1 = 0-10 V 0.1%
0-10V-1 = 0-10 V 1%
0-10V-5 = 0-10 V 5%
0-10V-10 = 0-10 V 10%
BL = BLEND / STEP
E = ELUCID
FF = FORWARD PHASE
D = DALI
DM = DIM
L = LUTRON
N = NONE
O = OSRAM
P = PHASE
RP = REVERSE PHASE

DRIVER LOCATION

I = INTEGRAL
N = NONE
R = REMOTE

LENS TYPE

C = CLEAR
D = DROP DOWN
F = FLUSH
N = NONE
R = RECESSED
O = ORAL
P = POP UP
PA = PATTERN 12 ACRYLIC LENS - .125" MINIMUM THICKNESS

REQUIRED LISTINGS

= IP # RATED
AT = AIR TIGHT
COW = CLASS # DIVISION #
DL = DAMP LOCATION
F = FIRE RATED
IC = IC RATED
IR = IMPACT RESISTANT
LR = LIGATURE RESISTANT
SL = SHOWER LIGHT
TR = TAMPER RESISTANT
VR = VANDAL RESISTANT
WL = WET LOCATION

MOUNTING MATERIAL

B = BRICK
C = CONCRETE
CB = CONCRETE BASE
DR = DRYWALL
ES = EXPOSED STRUCTURE
G = GROUND
LG = LAY-IN GRID
M = METAL
PL = PLASTER
S = STONE
T = TILE
V = VARIES
W = WOOD

MOUNTING TYPE

C = COVE
CR = CHAIN - PROVIDE ACCESSORY KIT
CA = CATENARY
MP = MONOPOINT
MPC = MULTIPORT CANOPY
PC = PENDANT - CABLE
PCH = PENDANT - CHAIN
PRS = PENDANT - RIGID STEM
PS = PENDANT - SWAG
PO = POLE
R = RECESSED
S = SURFACE
TC = TRACK - CABLE
TMC = TRACK - MONORAIL - CURVED
TMS = TRACK - MONORAIL - STRAIGHT
W = WALL

SENSOR TYPE

D = DAYLIGHT SENSOR
MO = MULTILEVEL OCCUPANCY SENSOR
N = NONE
O = OCCUPANCY SENSOR
P = PHOTOCELL

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ISSUE:

01 2025-03-24 ADDENDUM #02



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SCALE: AS NOTED

SHEET TITLE:

ELECTRICAL SCHEDULES

SHEET NUMBER:

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A

GENERAL ELECTRICAL PROVISIONS

WORK INCLUDED IN CONTRACT
VENTION OF ANY ARTICLE, OPERATION OR METHOD REQUIRES THAT CONTRACTOR SHALL PROVIDE SAME AND PERFORM EACH OPERATION IN COMPLETE ACCORDANCE WITH CONDITIONS STATED. CONTRACTOR SHALL PROVIDE ALL MATERIAL, LABOR, EQUIPMENT, AND TRANSPORTATION AS NECESSARY TO COMPLETE PROJECT IN COMPLIANCE WITH CONTRACT DOCUMENTS. IN GENERAL, WORK INCLUDES EVERYTHING ESSENTIAL FOR COMPLETE ELECTRICAL SYSTEM IN OPERATING ORDER AS SHOWN ON DRAWINGS AND INDICATED IN SPECIFICATIONS.

ALL MATERIALS SHALL BE SUITABLY STORED AND PROTECTED PRIOR TO INSTALLATION AND ALL WORK SHALL BE PROTECTED AFTER INSTALLATION DURING CONSTRUCTION AND PRIOR TO ACCEPTANCE.

SHALL ANY CONFLICTS OCCUR WITHIN OR BETWEEN SPECIFICATIONS, DRAWINGS, OR OTHER DOCUMENTS, CONTRACTOR SHALL INCLUDE THE MORE EXPENSIVE ALTERNATIVE.

BIDDING PROCEDURES
BASE BID SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT AS SHOWN ON CONSTRUCTION DRAWINGS AND AS REQUIRED AND SPECIFIED.

BASE BID SHALL NOT INCLUDE ANY CONDITIONS OR QUALIFYING STATEMENTS SHALL BE IN STRICT ACCORDANCE WITH SPECIFICATION REQUIREMENTS AND SHALL BE BASED UPON INSTALLATION OF MATERIALS AND EQUIPMENT AS SPECIFIED.

PERMITS AND LICENSES
CONTRACTOR SHALL PREPARE AND SUBMIT REQUIRED APPLICATIONS AND DRAWINGS FOR ALL CONSTRUCTION PERMITS AND APPROVALS TO AUTHORITIES HAVING JURISDICTION OVER PROJECT. ALL LICENSES AND PERMITS REQUIRED SHALL BE SECURED AND PAID FOR BY CONTRACTOR AND SHALL BE SECURED BY THE CONTRACTOR BEFORE STARTING WORK.

STANDARDS AND CODES
WORK SHALL BE INSTALLED IN ACCORDANCE WITH NATIONAL, STATE, AND LOCAL CODES, ORDINANCES, LAWS, AND REGULATIONS. COMPLY WITH ALL APPLICABLE OSHA REGULATIONS.

MATERIALS SHALL HAVE UL OR ETL LABEL WHERE UL OR ETL STANDARD AND / OR TEST EXISTS.

ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH RECOGNIZED INDUSTRY STANDARDS AND SHALL FOLLOW EQUIPMENT MANUFACTURER'S PUBLISHED INSTRUCTIONS.

MATERIALS AND EQUIPMENT
MATERIALS AND EQUIPMENT REQUIRED SHALL BE NEW, UNLESS OTHERWISE INDICATED.

EQUIPMENT SUPPLIED SHALL BE BASED ON MATERIALS AND EQUIPMENT OF MANUFACTURERS SPECIFIED. NO SUBSTITUTIONS WILL BE ALLOWED.

SUBMITTALS
THE FOLLOWING EQUIPMENT SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE ENGINEER:
LIGHTING CONTROL DEVICES

LIGHTING FIXTURES

CLEANING AND PAINTING

RUBBER RESULTING FROM WORK SHALL BE REMOVED AND DISPOSED OF ON DAILY BASIS IN SUCH MANNER AS TO BE ACCEPTABLE TO OWNER.

CONTRACTOR SHALL CLEAN ALL EXPOSED IRON WORK, INTERIOR AND EXTERIOR OF CABINETS AND PULL BOXES, ETC.

WHERE PAINTED SURFACES OF EQUIPMENT HAVE BEEN DAMAGED OR RUSTED DURING CONSTRUCTION, CONTRACTOR SHALL PAINT SAME TO MATCH FINAL.

TESTS AND ACCEPTANCE
OPERATION OF EQUIPMENT AND ELECTRICAL SYSTEMS DOES NOT CONSTITUTE ACCEPTANCE OF WORK BY OWNER. FINAL ACCEPTANCE IS TO BE MADE AFTER CONTRACTOR HAS ADJUSTED HIS EQUIPMENT AND DEMONSTRATED THAT IT FULFILLS REQUIREMENTS OF DRAWINGS AND SPECIFICATIONS.

UPON COMPLETION OF INSTALLATION, CONTRACTOR SHALL FURNISH CERTIFICATES OF APPROVAL AND OCCUPANCY PERMITS FROM AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL DEMONSTRATE THAT ALL WORK IS COMPLETE AND IN PERFECT OPERATING CONDITION, WITH RACEWAY AND CONDUIT SYSTEM PROPERLY GROUNDED, WIRING FREE FROM GROUNDS AND SHORTS, AND ENTIRE INSTALLATION IS FREE FROM ANY PHYSICAL DEFECTS.

IN PRESENCE OF ENGINEER AND OWNER, CONTRACTOR SHALL DEMONSTRATE PROPER OPERATION OF ALL SYSTEMS.

UNLESS OTHERWISE INDICATED, ALL WORK SHALL BE GUARANTEED FOR A MINIMUM OF ONE (1) YEAR AFTER DATE OF FINAL ACCEPTANCE.

DEFINITIONS

A/E - ARCHITECT AND / OR ENGINEER

PROVIDE - FURNISHED, INSTALLED, AND COMPLETELY WIRED AND CONNECTED BY ELECTRICAL CONTRACTOR.

NEC - NATIONAL ELECTRICAL CODE

CONTRACTOR - PERSON OR GROUP RESPONSIBLE FOR PROJECT CONSTRUCTION.

ELECTRICAL SERVICE AND DISTRIBUTION

PRODUCTS
REUSE EXISTING LOAD-CENTER PANELBOARD.

EXECUTION
PROVIDE TEMPORARY SERVICE IN AREAS OF CONSTRUCTION FOR ALL TRADES. INCLUDE LIGHTING AND 120 VOLT POWER. COSTS TO PROVIDE AND TO REMOVE TEMPORARY SERVICE ELECTRICAL EQUIPMENT AND POWER DISTRIBUTION SHALL BE INCLUDED IN THE CONTRACTOR'S BASE BID. UTILITY ENERGY COSTS FOR TEMPORARY POWER SHALL BE PAID BY OWNER.

EXISTING PERMANENT SERVICE SHALL REMAIN IN PLACE. NEW FEEDERS AND CIRCUIT BREAKER SHALL BE PROVIDED IN ACCORDANCE WITH DRAWINGS.

GROUNDING SHALL BE IN ACCORDANCE WITH ALL CODES.

CONTRACTOR TO PROVIDE ALL IMC FLASH LABELING ON ELECTRICAL EQUIPMENT AS REQUIRED BY NFPA 70E, STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE.

GROUNDING

PRODUCTS
ALL GROUNDING CONDUCTORS SHALL BE COPPER.

GROUND RODS SHALL BE COPPER-CLAD STEEL, 1/2" DIAMETER, 10' LONG.

MECHANICAL CONNECTIONS SHALL BE MADE WITH EXOTHERMIC WELDS OR WITH MECHANICAL CONNECTORS AT THE CONTRACTOR'S OPTION. MECHANICAL CONNECTORS SHALL BE BROUZE AND SHALL BE REVERSIBLE.

GROUND BUSSES SHALL BE 1/4" THICK BY 2" HIGH IN CROSS SECTION. LENGTHS AS INDICATED ON THE PLANS.

EXECUTION
REMOVE SURFACE CONTAMINANTS AT ALL CONNECTION POINTS.

GROUND ELECTRICAL SYSTEMS AND EQUIPMENT AS REQUIRED BY THE NEC, THE LOCAL UTILITY, AND LOCAL ORDINANCES.

PROVIDE SEPARATE GROUNDING CONDUCTOR WITH EACH FEEDER CONDUIT AND BRANCH CIRCUIT CONDUIT. DO NOT RELY ON METAL RACEWAY AS THE SOLE EQUIPMENT GROUND FOR ELECTRICAL CIRCUITS. BOND GROUND CONDUCTOR AT BOTH ENDS OF RACEWAYS WITH BOLTED GROUNDING LUGS.

SIZE GROUNDING CONDUCTORS IN ACCORDANCE WITH THE NEC.

FIRMLY ATTACH GROUNDS BEFORE CIRCUITS ARE ENERGIZED.

ELECTRICAL WIRING METHODS

ACCEPTABLE WIRING METHODS SHALL BE INDIVIDUAL CONDUCTORS IN CIRCULAR RACEWAYS. EXCEPTIONS ARE AS FOLLOWS:
CONDUCTORS FOR SYSTEMS RATED 30 VOLTS AND LESS AND ROUTED 1/2" AFF OR HIGHER, MAY BE INSTALLED IN FREE AIR WITHOUT RACEWAYS IN UNFINISHED MECHANICAL ROOMS, ELECTRICAL ROOMS, TELECOM CLOSETS. CONDUCTORS INSTALLED UNDER THIS EXCEPTION SHALL HAVE INSULATION RATINGS COMPLIANT WITH THE NEC, APPROPRIATE TO THE CONDITIONS WHERE THE CONDUCTORS ARE LOCATED.

CONDUCTORS FOR SYSTEMS RATED 30 VOLTS AND LESS AND ROUTED ABOVE ACCESSIBLE CEILINGS CONCEALED FROM VIEW, MAY BE INSTALLED IN FREE AIR WITHOUT RACEWAYS AT THE CONTRACTOR'S OPTION.

REVIEW PLANS OF OTHER TRADES AND IDENTIFY ANY AIR-HANDLING PLenums. CONDUCTORS INSTALLED UNDER THIS EXCEPTION SHALL HAVE INSULATION RATINGS COMPLIANT WITH THE NEC, APPROPRIATE TO THE CONDITIONS WHERE THE CONDUCTORS ARE LOCATED.

WHERE SPECIFICALLY INDICATED OTHERWISE ON THE DRAWINGS

BUILDING WIRE AND CABLE

PRODUCTS
SINGLE CONDUCTOR INSULATED WIRE.

SOLID OR STRANDED CONDUCTOR FOR #10 AWG AND SMALLER. CONDUCTOR #8 AWG AND LARGER SHALL BE STRANDED.

COPPER CONDUCTORS ONLY.

INSULATION VOLTAGE RATING: 60V VOLTS, RATED 75° CELSIUS, UNLESS OTHERWISE INDICATED.

ACCEPTABLE INSULATION TYPES:
CONCEALED OR EXPOSED DRY INTERIOR LOCATIONS: USE ONLY BUILDING WIRE TYPE THW, THWN, THWN OR XHHW INSULATION.

WET OR DAMP INTERIOR LOCATIONS: USE ONLY BUILDING WIRE TYPE THW, OR USE INSULATION.

EXTERIOR LOCATIONS: USE ONLY BUILDING WIRE TYPE THW, OR USE INSULATION.

UNDERGROUND LOCATIONS: USE ONLY BUILDING WIRE TYPE THW, OR USE INSULATION.

WIRING CONNECTORS FOR CONDUCTORS #10 AWG AND SMALLER: 3M SCOTCH-LOK COMPRESSION TYPE SOLDERLESS CONNECTORS WITH PLASTIC OUTER SHELL.

WIRING CONNECTORS FOR CONDUCTORS #8 AWG AND LARGER: SOLDERLESS COMPRESSION TYPE CONNECTORS, TOOL AND DIE APPLIED, OF TYPE THAT WILL NOT LOOSEN UNDER VIBRATION OR NORMAL STRAINS. BUNDLY 1/4" GENT TYPE OR EQUIVALENT. SPLIT BOLT CONNECTORS ARE NOT ACCEPTABLE.

RUBBER INSULATING ELECTRICAL TAPE: SCOTCH 3M MODEL 23, 36-MIL TAPE.

EXECUTION

CONDUCTOR SHALL NOT BE SMALLER THAN #12 AWG FOR POWER AND LIGHTING CIRCUITS.

CONDUCTOR SHALL NOT BE SMALLER THAN #14 AWG FOR CONTROL CIRCUITS.

ALL WIRES SHALL BE NEW, DELIVERED TO SITE IN UNOPENED CARTONS, AND SHALL BE LESS THAN ONE YEAR OLD OUT OF MANUFACTURER'S STOCK.

DO NOT DRAW CONDUCTORS INTO CONDUITS UNTIL BUILDING IS ENCLOSED AND WATER-TIGHT AND UNTIL WORK THAT MAY CAUSE CONDUCTOR DAMAGE HAS BEEN COMPLETED.

EACH JUNT, JOINT, OR SPLICE IN CONDUCTORS #8 AWG AND LARGER SHALL BE TAPED WITH TWO HALF-1/4" LAYERS OF VINYL PLASTIC ELECTRICAL TAPE AND FINISH WRAP OF COLOR CODING TAPE, WHERE REQUIRED BY THE NEC OR LOCAL CODES.

CABLE SPLICES SHALL BE MADE ONLY IN DISTRIBUTION AND JUNCTION BOXES.

NEATLY TRAIN AND BUNDLE WIRING INSIDE BOXES, EQUIPMENT, AND PANELBOARDS.

SIZE CONDUIT, OUTLET BOXES, AND OTHER RACEWAY SYSTEM COMPONENTS IN ACCORDANCE WITH NEC REQUIREMENTS AS MINIMUM.

MULTIPLE BRANCH CIRCUITS ARE NOT PERMITTED. EACH BRANCH CIRCUIT SHALL CONTAIN A DEDICATED NEUTRAL CONDUCTOR FOR EACH PHASE CONDUCTOR. A SINGLE NEUTRAL SHARED BETWEEN MULTIPLE PHASE CONDUCTORS ARE NOT PERMITTED.

INSTALL WIRE COLORS IN ACCORDANCE WITH FOLLOWING:
BLACK AND RED FOR SINGLE PHASE CIRCUITS AT 120/240 VOLTS.
BLACK, RED, AND BLUE FOR CIRCUITS AT 120/120/208 VOLTS SINGLE OR THREE-PHASE.

NEUTRAL CONDUCTORS: WHITE. WHEN TWO OR MORE NEUTRALS ARE LOCATED IN ONE CONDUIT, INDIVIDUALLY IDENTIFY EACH WITH PROPER CIRCUIT NUMBER.

RACEWAYS AND BOXES

PRODUCTS
METAL CONDUIT:
RIGID METAL CONDUIT (RMC)

INTERMEDIATE METAL CONDUIT (IMC)

ELECTRICAL METALLIC TUBING (EMT)

METAL CONDUIT FITTINGS: BOX TERMINATIONS AND COUPLINGS:
STEEL OR MALLEABLE IRON, ZINC GALVANIZED, OR CADMIUM PLATED.

SET SCREW STYLE FASTENERS.

BOX CONNECTORS SHALL HAVE NON-METALLIC INSULATED THROATS.

DO NOT USE ALUMINUM OR DIE CAST FITTINGS.

LIQUID-TIGHT FLEXIBLE METAL CONDUIT (LFMC):
INTERLOCKED STEEL CONSTRUCTION WITH PVC SUNLIGHT RESISTANT JACKET.

FITTINGS: NEMA F81 LIQUID-TIGHT, SUITABLE FOR GROUNDING, SUITABLE FOR WET LOCATIONS, TAPERED THREADED HUB, NON-METALLIC MATERIALS.

NON-METALLIC CONDUIT:
PRODUCT DESCRIPTION: NEMA TC 1, SCHEDULE 40 OR 80 PVC, UL LISTED, AND AS REQUIRED BY NEC, SUNLIGHT RESISTANT.

RATED FOR 90° CELSIUS CABLE.

FITTINGS AND CONDUIT BODIES: NEMA TO 1, SCHEDULE 40 OR 80, TO MATCH CONDUIT.

OUTLET BOXES:
INTERIOR OUTLET BOXES SHALL BE GALVANIZED STAMPED STEEL, WITH PRE-PUNCHED KNOCK OUTS. SIZE SHALL BE 4-11/16" SQUARE, 2-1/2" DEEP MINIMUM.

EXTERIOR OUTLET BOXES SHALL BE CAST FERRALLOY, TYPE 1FO, CAST FERRALLOY, FURNISH GASKETED COVER BY BOX MANUFACTURER.

EXECUTION
MINIMUM RACEWAY SIZE: 3/4" UNLESS OTHERWISE INDICATED.

SPLIT, CRUSHED, OR SCARFED CONDUIT IS NOT ACCEPTABLE.

WELDED CONDUIT IS NOT ACCEPTABLE.

RACEWAY AND BOXES LOCATED AS INDICATED ON DRAWINGS, AND AT OTHER LOCATIONS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS, AND COMPLIANCE WITH REGULATORY REQUIREMENTS. RACEWAY AND BOXES ARE SHOWN IN APPROPRIATE LOCATIONS UNLESS DIMENSIONS PROVIDED. RACEWAY TO COMPLETE WIRING SYSTEM.

UNDERGROUND (OUTSIDS) MORE THAN 5'-0" OUTSIDE FOUNDATION WALL, PROVIDE SCHEDULE 40 NON-METALLIC CONDUIT, UNLESS OTHERWISE INDICATED.

UNDERGROUND (OUTSIDS) WITHIN 5'-0" FROM FOUNDATION WALL TO INSIDE OF BUILDING: PROVIDE RIGID STEEL CONDUIT. ONCE INSIDE BUILDING PROVIDE STEEL CONDUIT. PROVIDE INTERLOCKING RUBBER GASKETS AROUND RACEWAYS PASSING BELOW GRADE THROUGH BUILDING FOUNDATION WALLS. UTILIZE UNSEAL TYPE GASKETS OR EQUIVALENT.

WET, DAMP, AND OUTDOOR LOCATIONS: PROVIDE RIGID STEEL CONDUIT. PROVIDE CAST METAL JUNCTION AND PULL BOXES.

DRY LOCATIONS: PROVIDE METAL CONDUIT (RMC, IMC, OR EMT) UNLESS OTHERWISE INDICATED. PROVIDE STAMPED STEEL, OR SHEET METAL, BOXES.

SUPPORT RACEWAY USING TWO-HOLE MALLEABLE IRON STRAPS, LAY-IN ADJUSTABLE HANGERS, CLEVIS HANGERS, OR SPLIT HANGERS. PROVIDE LIGHT GAUGE STEEL BRACING FOR RACEWAY TRAPPEZ-HANGERS OR FOR OTHER RACEWAY SUPPORT AS REQUIRED.

SECURE CONDUITS IN PLACE WITH MALLEABLE CORROSION-PROOF-ALLOY STRAPS OR HANGERS. CONDUIT STRAPS USED IN CORROSION AREAS SHALL BE PVC COATED.

DO NOT SUPPORT RACEWAY WITH WIRE OR PERFORATED PIPE STRAPS. REMOVE WIRE USED FOR TEMPORARY SUPPORTS.

ROUTE INTERIOR RACEWAYS PARALLEL WITH OR PERPENDICULAR TO WALLS, CEILINGS, AND OTHER PRIMARY ARCHITECTURAL AND STRUCTURAL ELEMENTS.

CUT CONDUIT SQUARE USING SAW OR PIPE CUTTER. DE-BURR CUT ENDS. BRING CONDUIT TO SHOULDER OF FITTING. FASTEN SECURELY.

JOIN NON-METALLIC CONDUIT USING CEMENT AS RECOMMENDED BY MANUFACTURER. WIRE NON-METALLIC CONDUIT DRY AND CLEAN BEFORE JOINING. APPLY FULL-EVEN COAT OF CEMENT TO ENTIRE AREA INSERTED IN FITTING. ALLOW JOINT TO CURE FOR MINIMUM 20 MINUTES.

INSTALL CONDUIT HUBS TO FASTEN CONDUIT TO CAST BOXES IN DAMP AND WET LOCATIONS.

INSTALL NO MORE THAN EQUIVALENT OF THREE (3) 90 DEGREE BENDS BETWEEN BOXES.

INSTALL CONDUIT BODIES TO MAKE SHARP CHANGES IN DIRECTION, AS AROUND BEAMS.

INSTALL HYDRAULIC ONE-SHOT BENDER TO FABRICATE OR FACTORY ELBOWS FOR BENDS IN METAL CONDUIT LARGER THAN 2" SIZE.

AVOID MOISTURE TRAPS. INSTALL JUNCTION BOX WITH DRAIN FITTING AT LOW POINTS IN CONDUIT SYSTEM.

PROVIDE WATER-TIGHT CONDUIT SYSTEM WHERE INSTALLED IN WET LOCATIONS SUCH AS UNDERGROUND, OR WHERE EMBEDDED IN CONCRETE.

CONDUIT RUNS THAT EXTEND THROUGH AREAS OF DIFFERENT TEMPERATURE OR ATMOSPHERIC CONDITIONS OR THAT ARE PARTLY INDOORS AND PARTLY OUTDOORS SHALL BE SEALED, DRAINED, AND INSTALLED IN A MANNER THAT WILL PREVENT DRAINAGE OF CONDENSED OR ENTRAPPED MOISTURE INTO CABINETS, MOTORS, OR EQUIPMENT ENCLOSURES.

CONDUIT CONNECTIONS AT MOTORS AND OTHER EQUIPMENT THAT VIBRATES: PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT.

USE DOUBLE LOCKNUTS AND INSULATED BUSHINGS WITH THREADS FULLY ENGAGED.

ENTER OR UNDERGROUND DIRECT BURIED CONDUITS SHALL BE BURIED AT DEPTH OF NOT LESS THAN 30" BELOW GRADE. UNDERGROUND CONDUITS SHALL SLOPE 1/8" PER FOOT FOR PROPER DRAINAGE. CONDUITS SHALL DRAIN TOWARD MANHOLES AND JUNCTION BOXES. CONDUITS SHALL NOT FIT TO ELECTRICAL EQUIPMENT.

INSTALL KNOCKOUT CLOSURES IN UNUSED OPENINGS IN BOXES.

CLEAN EXPOSED SURFACES AND RESTORE FINISH.

ELECTRICAL RECEPTACLES

PRODUCTS
PROVIDE ALL WIRING DEVICE TYPES FROM A SINGLE MANUFACTURER.

FOR BIDDING PURPOSES, DEVICE COLOR AND DEVICE COVER PLATES IN FINISHED AREAS SHALL BE WHITE. VERIFY COLOR AND MATERIAL OF EXISTING DEVICES AND COVER PLATES AND PROVIDE NEW PLATES TO MATCH EXISTING.

ACCEPTABLE MANUFACTURERS ARE:
HUBBELL

LEVITON

ARROW-HART, INC.

PASS & SEYMOUR/LEGRAND

RECEPTACLES

GENERAL USE DUPLEX CONVENIENCE RECEPTACLE: HEAVY DUTY SPECIFICATION GRADE, 20 AMP, 125 VOLT, NEMA 5-20R, UL 2006 COMPLIANT, HUBBELL CAT. NO. HBL502.

WEATHER-RESISTANT CORROSION-RESISTANT HEAVY DUTY, SPECIFICATION GRADE, 20 AMP DUPLEX, 125 VOLT, NEMA 5-20P, HBL502M2 (COLOR-YELLOW).

GFI RECEPTACLE: HEAVY DUTY, SPECIFICATION GRADE, SELF-TESTING, 20 AMP, 125 VOLT, NEMA 5-20R, UL 2006 COMPLIANT, HUBBELL CAT. NO. GF5010.

WEATHER-RESISTANT GFI, EXTRA-HEAVY-DUTY GRADE, 20 AMP DUPLEX, 125 VOLT, NEMA 5-20R, UL 2006 COMPLIANT, HUBBELL CAT. NO. GF5010Z.

WEATHER-PROOF COVER PLATE: GASKETED DIE CAST METAL PLATE WITH MIXED AND GASKETED DEVICE COVERS. COVER SHALL ALLOW CORDS TO BE PLUGGED IN AND COVER CLOSED. PROVIDE INTERMEDIATE OPTIMUM FOR SINGLE DUPLEX RECEPTACLES OR WP105M2C FOR DOUBLE (QUAD) DUPLEX RECEPTACLES.

EXECUTION

INSTALL RECEPTACLES WITH GROUNDING POLE ON TOP.

CONNECT WIRING DEVICE GROUNDING TERMINAL TO OUTLET BOX WITH BONDING JUMPER AND BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTOR.

INSTALL GALVANIZED STEEL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS ABOVE ACCESSIBLE CEILINGS AND ON SURFACE MOUNTED OUTLETS.

DO NOT USE TERMINALS ON WIRING DEVICES (NOT OR NEUTRAL FOR FEED-THROUGH CONNECTIONS). LOOPED OR OTHERWISE MAKE CIRCUIT CONNECTIONS VIA WIRE CONNECTORS AND PIGTAILS.

PROVIDE A LAYER OF ELECTRICAL TAPE AROUND PERIMETER SIDES OF EACH WIRING DEVICE SO THAT TERMINATIONS ARE INSULATED.

WHERE GFI PROTECTED RECEPTACLES ARE INDICATED ON DRAWINGS, EACH RECEPTACLE INDICATED SHALL BE A GFI RECEPTACLE. STANDARD RECEPTACLES PROTECTED WITH AN UPSTREAM GFI RECEPTACLE SHALL NOT BE APPROVED.

VERIFY EACH RECEPTACLE DEVICE IS ENERGIZED.

TEST EACH RECEPTACLE DEVICE FOR PROPER POLARITY.

TEST EACH GFI RECEPTACLE DEVICE FOR PROPER OPERATION. MARK PANEL AND CIRCUIT NUMBER SERVING DEVICE ON BACKSIDE OF DEVICE PLATE WITH A PERMANENT MARKING SYSTEM THAT DOES NOT SHOW THROUGH FRONT OF PLATE.

LIGHTING FIXTURES

PRODUCTS
REFER TO PLANS AND/OR TO LIGHTING FIXTURE SCHEDULE.

LIGHT FIXTURES WITH INTEGRAL LED'S SHALL BE PROVIDED WITH THE FOLLOWING COLOR CHARACTERISTICS: SEE LIGHTING FIXTURE SCHEDULE FOR ANY EXCEPTIONS.

LED'S WITH A COLOR RENDERING INDEX OF 80 OR HIGHER.

PROVIDE LED LIGHT FIXTURES WITH 0-10 VDC DIMMING CAPABILITY WITH INTEGRAL DRIVERS UNLESS NOTED OTHERWISE IN THE LIGHTING FIXTURE SCHEDULE.

EXECUTION
WHERE LAMPS ARE NEEDED, PROVIDE FIXTURES COMPLETE WITH INITIAL FILL OF LAMPS AS SCHEDULED. PROVIDE BALLASTS AS SPECIFIED.

CONTRACTOR SHALL VERIFY CEILING CONSTRUCTION PRIOR TO ORDERING FIXTURES. PROVIDE RECESS FIXTURES WITH TRIM CHARACTERISTICS COMPATIBLE WITH CEILING TYPES (WHERE FIXTURES ARE TO BE INSTALLED).

DEMOLITION

CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY EXISTING CODE VIOLATIONS OBSERVED DURING THE COURSE OF PERFORMING HIS WORK. THE ENGINEER WILL DECIDE IF CORRECTIVE ACTION NEEDS TO BE TAKEN. CORRECTIVE ACTIONS THAT CHANGE THE SCOPE OF THE WORK WILL BE CONSIDERED A CHANGE ORDER AND WILL BE PROCESSED ACCORDINGLY.

EXISTING BUILDINGS SHALL REMAIN IN SERVICE DURING CONSTRUCTION.

PRIOR TO DEMOLITION OR ALTERATION OF STRUCTURES, THE FOLLOWING SHALL BE ACCOMPLISHED:
OWNER RELEASE OF SUCH STRUCTURE.

DISCONNECTION OF ELECTRICAL POWER TO EQUIPMENT AND CIRCUITS REMOVED OR AFFECTED BY DEMOLITION WORK.

ELECTRICAL SERVICES REROUTED OR SHUT OFF OUTSIDE AREA OF DEMOLITION.

COORDINATE SEQUENCING WITH OWNER AND OTHER CONTRACTORS.

SURVEY AND RECORD CONDITION OF EXISTING FACILITIES TO REMAIN IN PLACE THAT MAY BE AFFECTED BY DEMOLITION OPERATIONS.

POWER OUTAGES AND INTERRUPTIONS IN BUILDING SYSTEMS SHALL BE HELD TO A MINIMUM AND SHALL BE DONE AT A TIME CONVENIENT TO OWNER. TIME OF ALL OUTAGES SHALL BE SCHEDULED WITH OWNER AND ALL OTHER TRADES AFFECTED BY OUTAGE AT LEAST TEN WORKING DAYS IN ADVANCE.

IDENTIFY SALVAGE ITEMS IN COOPERATION WITH OWNER. OWNER MAY KEEP ANY EQUIPMENT IN DEMOLITION AREAS. CONTRACTOR SHALL DELIVER EQUIPMENT OWNER WANTS SALVAGED TO AREA IN BUILDING DESIGNATED BY OWNER. CONTRACTOR SHALL REMOVE ALL MATERIALS IN DESIGNATED AREA NOT SALVAGED FROM SITE. CONTRACTOR SHALL OBTAIN RELEASE OF ALL MATERIALS BEFORE DISPOSITION.

AFTER DEMOLITION OPERATIONS ARE COMPLETED, SURVEY CONDITIONS AND RESTORE EXISTING FACILITIES TO THEIR PRE-DEMOLITION CONDITION.

REMOVE ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILINGS. CUT CONDUIT CAST INTO CONCRETE STRUCTURES FLUSH WITH WALLS AND FLOORS. PATCH SURFACES AROUND CONDUITS.

REMOVE CONDUIT, WIRE, BOXES, AND FASTENING DEVICES TO AVOID ANY INTERFERENCE WITH NEW INSTALLATION.

DE-ENERGIZE AND DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.

DISCONNECT OR SHUT OFF POWER TO AREAS WHERE ELECTRICAL WORK IS TO BE REMOVED. REMOVE ELECTRICAL FIXTURES, EQUIPMENT AND RELATED SWITCHES, OUTLETS, CONDUIT AND WIRING WHICH ARE NOT PART OF FINAL PROJECT.

REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.

REMOVE ABANDONED GROUNDING AND BONDING COMPONENTS, FASTENERS AND SUPPORTS, AND ELECTRICAL IDENTIFICATION COMPONENTS, INCLUDING ABANDONED COMPONENTS ABOVE ACCESSIBLE CEILINGS.

CUT EMBEDDED SUPPORT ELEMENTS FLUSH WITH WALLS AND FLOORS.

FEEDERS, BRANCH CIRCUITS, AND OTHER SYSTEM WIRING WHICH ARE TO REMAIN IN SERVICE BUT WHICH ARE PRESENTLY ROUTED THROUGH AREAS BEING DEMOLISHED SHALL BE REROUTED AROUND DEMOLITION AREA.

WHERE EXISTING BRANCH CIRCUITS ARE TO BE EXTENDED OR MODIFIED, EXISTING CONDUIT THAT HAS NOT BEEN REMOVED MAY BE REUSED AT CONTRACTOR'S DISCRETION. EXISTING CONDUITS THAT ARE REMOVED FROM THEIR EXISTING LOCATION SHALL NOT BE REUSED.

EXISTING WIRING MAY BE SPLICED AND USED TO EXTENT THAT IT WAS NOT REMOVED. EXISTING CONDUCTORS THAT HAVE BEEN REMOVED SHALL NOT BE RE-USED.

REMOVE AND PROTECT ITEMS REQUESTED BY OWNER TO BE SALVAGED AND TRANSPORT TO LOCATION ON SITE DESIGNATED BY OWNER.

CONTRACTOR SHALL TOUR DEMOLITION AREAS WITH OWNER TO DETERMINE STATUS OF ALL EQUIPMENT TO BE REMOVED DURING DEMOLITION.

ALL EQUIPMENT THAT IS TO BE SALVAGED FOR REUSE BY THE OWNER SHALL BE REMOVED BY CONTRACTOR AND TRANSPORTED TO AN OWNER DESIGNATED STORAGE AREA ON SITE.

RACEWAY, BOXES, AND SUPPORTING DEVICES SHALL BECOME PROPERTY OF CONTRACTOR AND SHALL BE REMOVED FROM SITE AND DISPOSED OF BY THE CONTRACTOR.

REMOVED EQUIPMENT SHALL BE DISPOSED OF BY CONTRACTOR UNLESS SPECIFICALLY OTHERWISE INDICATED ON DRAWINGS OR REQUESTED BY OWNER. CONTRACTOR SHALL PROVIDE TRANSPORT FOR DISPOSAL.

ANY HAZARDOUS MATERIALS REMOVED FROM SERVICE AS PART OF THIS PROJECT SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR IN COMPLETE COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL ENVIRONMENTAL LAWS. EXAMPLES OF SUCH MATERIALS WOULD INCLUDE LIGHT FIXTURE LAMPS AND LIGHT FIXTURE BALLASTS THAT CONTAIN REGULATED ELEMENTS.

REFER TO ARCHITECTURAL DEMOLITION PLANS FOR ADDITIONAL WORK, SUCH AS PAINTING, THAT WOULD REQUIRE THE ELECTRICAL CONTRACTOR TO MASK, TAPE, OR OTHERWISE PROTECT EXISTING ELECTRICAL ITEMS NOT SCHEDULED FOR DEMOLITION.

GräeL

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CLIENT:

CITY OF WATERTOWN

C

PROJECT TITLE:

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CONCRETE RAMP AND STAIR

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B

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