

McHenry County College

Fire Tower Replacement

8900 Northwest Hwy #14,
Crystal Lake, IL 60012

ISSUED FOR BID - NOT FOR CONSTRUCTION

04/21/2026

DKA PROJECT NO: 25-028

MCC BID NO: IFB#05142026_FT



ARCHITECT

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125 N. HALSTED ST., SUITE 301
CHICAGO, IL 60661
P: 312.496.0000 F: 312.496.0001



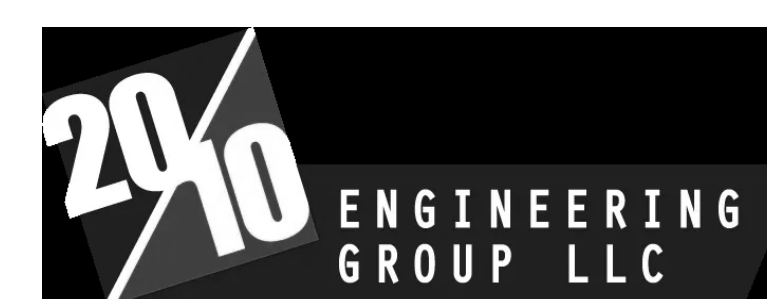
STRUCTURAL ENGINEER

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263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320



CIVIL ENGINEER

HR GREEN
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MCHENRY, IL, 60050
P: 815.385.1778



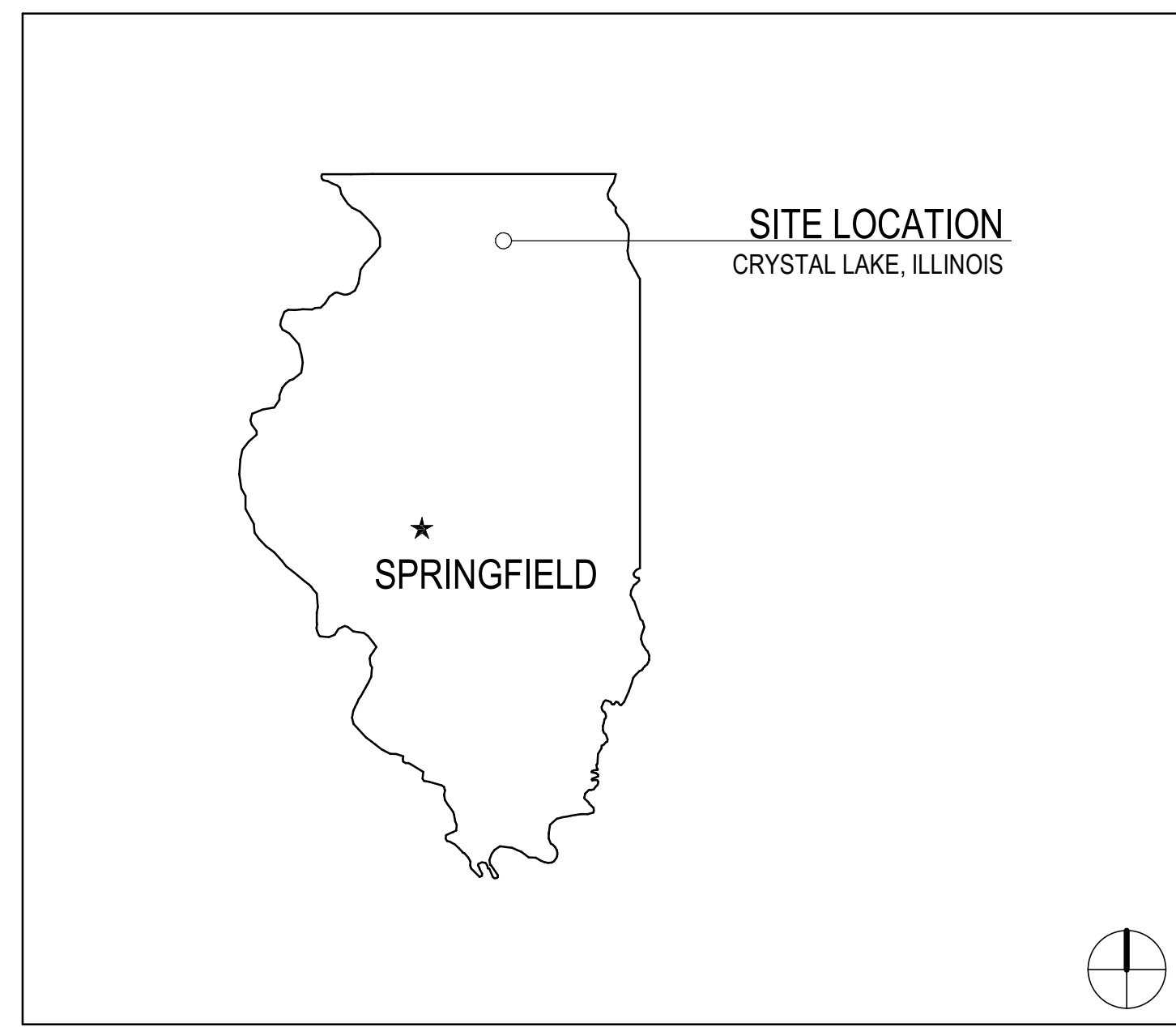
ELECTRICAL ENGINEER

20/10 ENGINEERING
1216 TOWER ROAD
SCHAUMBURG, IL, 60173
P: 847.882.2010

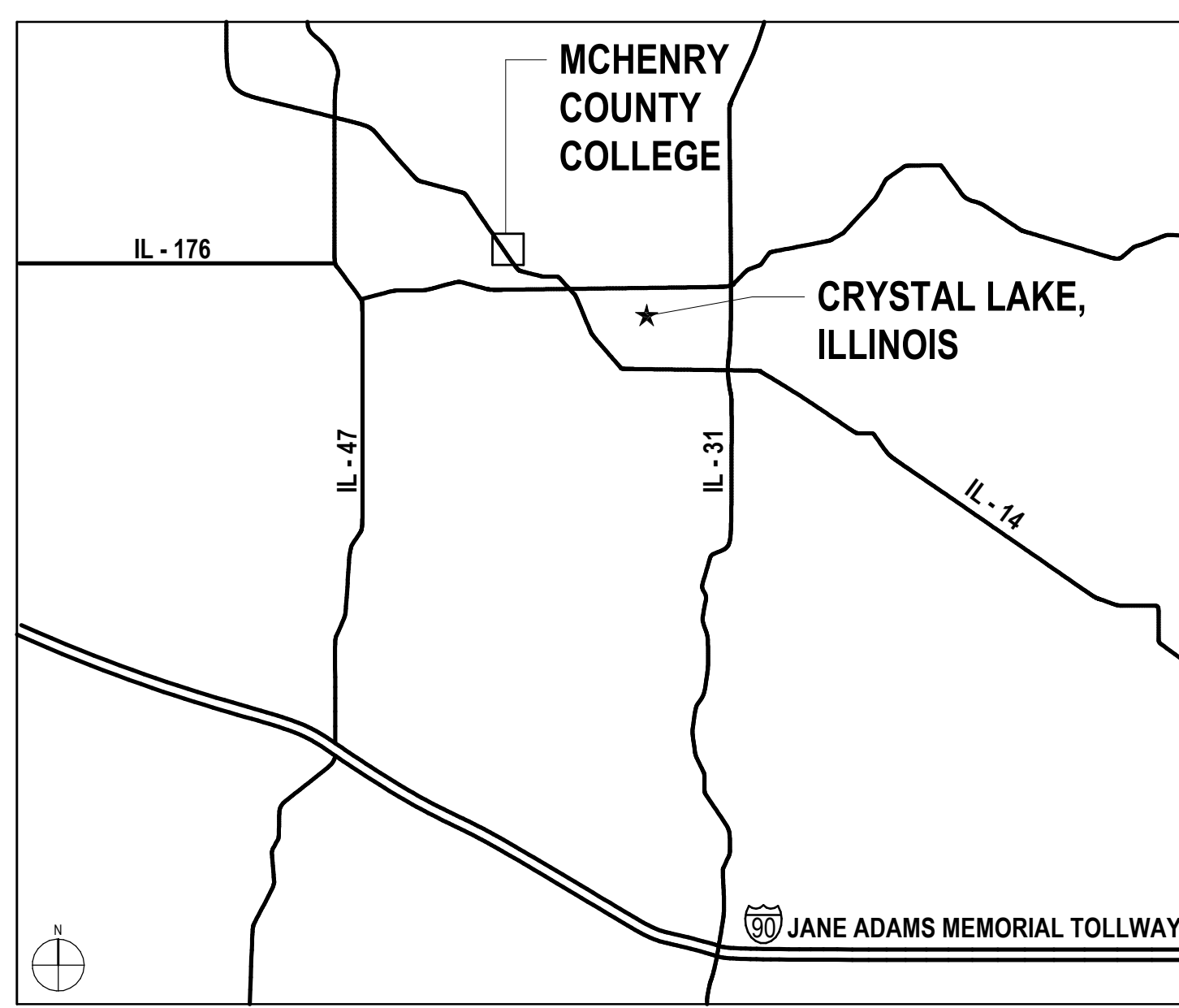
ABBREVIATIONS

AP ACCESS PANEL	HDW HARDWARE	TEL TELEPHONE
ACQJUST ACOUSTICAL	HDWD HARDWOOD	TV TELEVISION
ACT ACOUSTICAL CEILING TILE	HDR HEADER	TRZ TERRAZZO
ADJ ADJACENT	HTG HEATING	TB TILE BASE
A.F.F. ABOVE FINISH FLOOR	HVAC HEATING, VENTILATING, AIR CONDITIONING	THK THICK
AGGR AGGREGATE	HT HEIGHT	T.O.C. TOP OF CURB
A/C AIR CONDITIONING	HC HOLLOW CORE	TOP TOP OF PAVEMENT
ALT ALTERNATE	HM HOLLOW METAL	TOW TOP OF WALL
ALUM ALUMINUM	HMF HOLLOW METAL FRAME	T&G TONGUE AND GROOVE
L ANGLE	HORZ HORIZONTAL	TYP TYPICAL
APPD APPROVED	HB HOSE BIB	
APPROX APPROXIMATE	HR HOUR	UNF UNFINISHED
ARCH ARCHITECTURAL OR ARCHITECT		U.N.O. UNLESS NOTED OTHERWISE
AD AREA DRAIN	INC INCLUDE	UR URINAL
ASB ASBESTOS	I.D. INSIDE DIAMETER	
ASPH ASPHALT	INSUL INSULATION	
A/V AUDIO VISUAL	INTR INTERIOR	VB VINYL BASE
	INV INVERT	VERT VERTICAL
BSMT BASEMENT	JAN JANITOR	VEST VESTIBULE
BRG BEARING	JT JOINT	VCT VINYL COMPOSITION TILE
BM BEAM	KIT KITCHEN	VW VINYL WALLCOVERING
BTW BETWEEN	LAM LAMINATE	
BITUM BITUMINOUS	LAV LAVATORY	WSCT WAINSCOT
BLK BLOCK	LH LEFT HAND	WC WATER CLOSET
BLKG BLOCKING	LGTH LENGTH	WLK WALK-OFF MAT
BD BOARD	LT LIGHT	WR WATER RESISTANT
BRK BRICK	LWC LIGHT WEIGHT CONCRETE	WT WALL TILE OR WEIGHT
BLDG BUILDING	LTL LINTEL	W WEST
	LN LINOLEUM	W WIDE FLANGE "W16x21"
CAB CABINET	LL LIVE LOAD	W WIDTH
CIP CAST IN PLACE	MH MANHOLE	W/ WITH
CIPC CAST IN PLACE CONCRETE	MFR MANUFACTURER	W/O WITHOUT
CI CURB INLET	MAS MASONRY	WD WOOD
CB CATCH BASIN	MO MASONRY OPENING	WDP WOOD PANEL
CLG CEILING	MTL METAL	X EXISTING
CTR CENTER	MAX MAXIMUM	
CJ CONTROL JOINT	MECH MECHANICAL	
CL CENTER LINE	MTC MECHANICAL TRADES CONTRACTOR	
CPT CARPET	MEMB MEMBRANE	
CT CERAMIC TILE	MT MARBLE TILE	
CLR CLEAR	MIN MINIMUM	
CLO CLOSET	MISC MISCELLANEOUS	
COL COLUMN	MTD MOUNDED	
CONC CONCRETE	MTG MOUNTING	
CONN CONNECTION	MUL MULLION	
CONST CONSTRUCTION	NOM NOMINAL	
CM CONSTRUCTION MANAGER	N NORTH	
CONT CONTINUOUS OR CONTINUE	N.I.C. NOT IN CONTRACT	
CONTR CONTRACTOR	N.T.S. NOT TO SCALE	
CK CORK	NO OR # NUMBER	
CORR CORRIDOR	OBS OBSCURE	
CNSK COUNTERSUNK	OFF OFFICE	
CRS COURSE	O.C. ON CENTER	
	OPNG OPENING	
DEMO DEMOLISH OR DEMOLITION	OPP OPPOSITE	
DEPT DEPARTMENT	OSB ORIENTED STRAND BOARD	
DL DEAD LOAD	O.D. OUTSIDE DIAMETER	
DIA DIAMETER	OA OVERALL	
DIM DIMENSION	OFD OVERFLOW DRAIN	
DISP DISPENSER	PT PAINT	
DIV DIVISION	PTD PAINTED	
DR DOOR	PR PAIR	
DO DOOR OPENING	PNL PANEL	
DBL DOUBLE	PBD PARTICLE BOARD	
DS DOWNSPOUT	PTN PARTITION	
DRW DRAWER	PLAS PLASTIC	
DWG DRAWING	P-LAM PLASTIC LAMINATE	
DF DRINKING FOUNTAIN	PL PLATE	
DS DRY STANDPIPE	PTC PLUMBING TRADES CONTRACTOR	
DWT DETECTABLE WARNING TILE	PLYWD PLYWOOD	
	PSI POUNDS PER SQUARE INCH	
E EAST	PC PRECAST	
EA EACH	PCC PRECAST CONCRETE	
EIFS EXTERIOR INSULATION FINISH SYSTEM	QT QUARRY TILE	
ELEC ELECTRICAL	R RADIUS	
ETC ELECTRICAL TRADES CONTRACTOR	RWL RAIN WATER LEADER	
EWC ELECTRICAL WATER COOLER	RFRG REFRIGERATOR	
EP ELECTRICAL PANEL BOARD	RGTR REGISTER	
EL ELEVATION	REINF REINFORCED	
ELEV ELEVATION	ROD REQUIRED	
ELVTR ELEVATOR	RES RESILIENT	
ENCL ENCLOSURE	RA RETURN AIR	
EMER EMERGENCY	RAG RETURN AIR GRILLE	
EP PT EPOXY PAINT	RH RIGHT HAND	
EPF EPOXY FLOORING	ROW RIGHT OF WAY	
EQ EQUAL	R RISER	
EOPMT EQUIPMENT	RD ROOF DRAIN	
EXSTG EXISTING	RM ROOM	
EXP EXPANSION	R.O. ROUGH OPENING	
EXP JT EXPANSION JOINT	RB RUBBER BASE	
EXPD EXPOSED		
EXTR EXTERIOR	SECT SECTION	
	SK SINK	
FOC FACE OF CONCRETE	SCHED SCHEDULE	
FOF FACE OF FINISH	SHTG SHEATHING	
FOS FACE OF STUD	SHT SHEET	
FR FIBERGLASS REINFORCED PANEL	SV SHEET VINYL	
FIN FINISH OR FINISHED	SHWR SHOWER	
FA FIRE ALARM	SIM SIMILAR	
FE FIRE EXTINGUISHER	SC SEALED CONCRETE	
FEC FIRE EXTINGUISHER CABINET	SPM SINGLE PLY MEMBRANE	
FHC FIRE HOSE CABINET	S SOUTH	
FRRF FIRE ROOF	SFRM SPRAY APPLIED FIRE RESISTIVE MATERIAL	
FB FLAT BAR STOCK	SPEC SPECIFICATION	
FL FLOOR	SQ SQUARE	
FD FLOOR DRAIN	S.S. STAINLESS STEEL	
FLUOR FLUORESCENT	STD STANDARD	
FT FOOT OR FEET	STA STATION	
FTG FOOTING	STL STEEL	
FDN FOUNDATION	STOR STORAGE	
FRM FRAME	STRUCT STRUCTURE OR STRUCTURAL	
FRMG FRAMING	SUSP SUSPENDED	
FS FULL SIZE	SAT SUSPENDED ACOUSTICAL TILE	
FURR FURRING	SYM SYMMETRICAL	
FUTR FUTURE		
FW FABRIC WALLCOVERING		
GA GAUGE		
GALV GALVANIZED		
GEN GENERAL		
GC GENERAL CONTRACTOR		
GTC GENERAL TRADES CONTRACTOR		
GL GLASS OR GLAZING		
GD GRADE		
GND GROUND		
GYP BD GYPSUM BOARD		

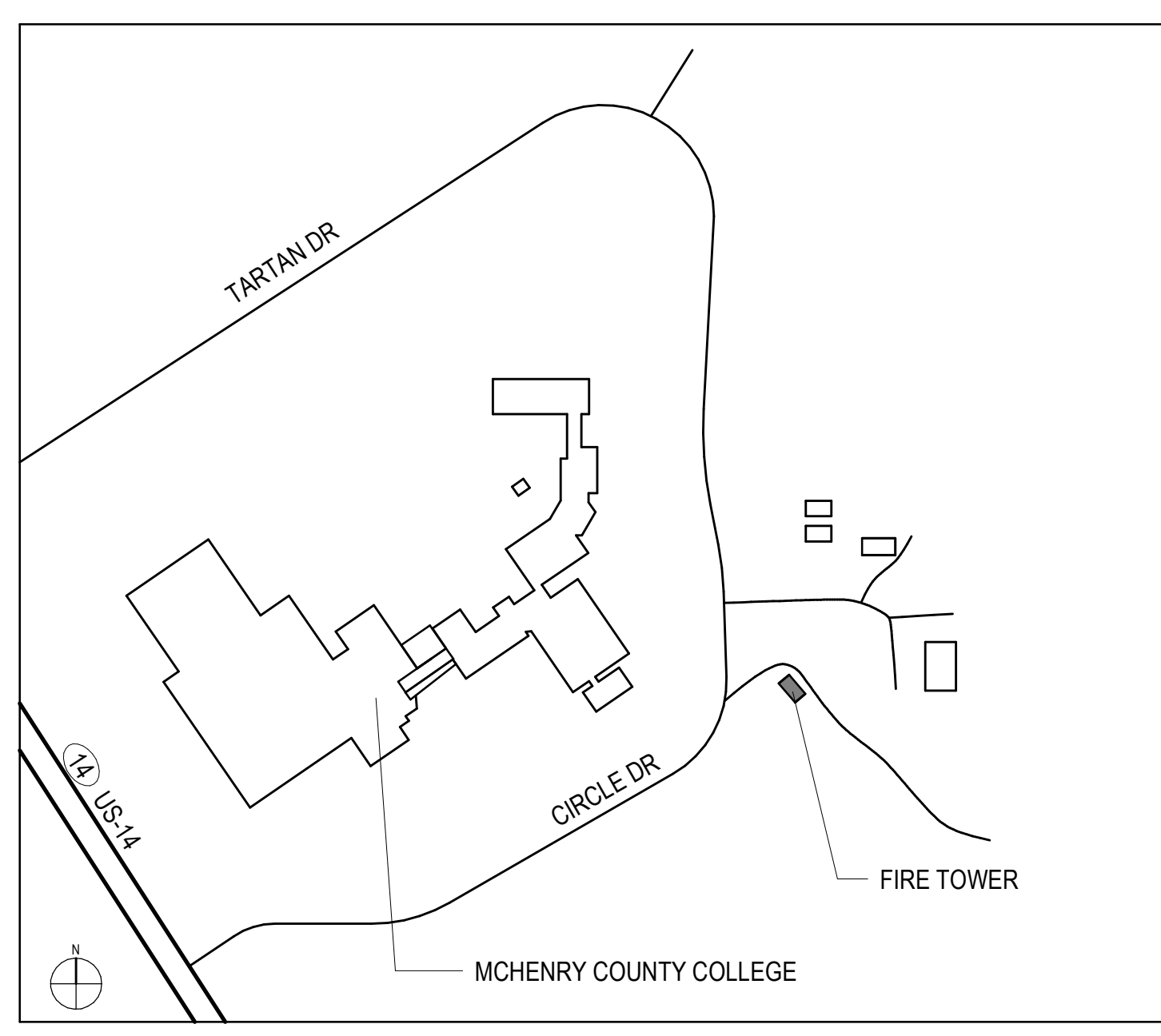
STATE LOCATION MAP



AREA MAP



CAMPUS MAP



SHEET INDEX

GENERAL	G1.00 SHEET INDEX, ABBREVIATIONS, SYMBOLS & NOTES
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	C-02 SITE DEMOLITION PLAN
	C-03 SITE UTILITY PLAN
	C-04 GRADING & EROSION CONTROL PLAN
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ARCHITECTURAL	A1-10 DEMOLITION & NEW WORK SITE PLANS
	A4-00 EXTERIOR ELEVATIONS
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	S100 FOUNDATION PLAN AND DETAILS
ELECTRICAL	E1-00 SITE ELECTRICAL PLAN
	E1-10 ELECTRICAL PLANS
	E1-20 ELECTRICAL PLANS
	E2-00 ELECTRICAL RISER DIAGRAM, SCHEDULES AND DETAILS
	E3-00 ELECTRICAL SYMBOLS LIST, NOTES AND SPECIFICATIONS



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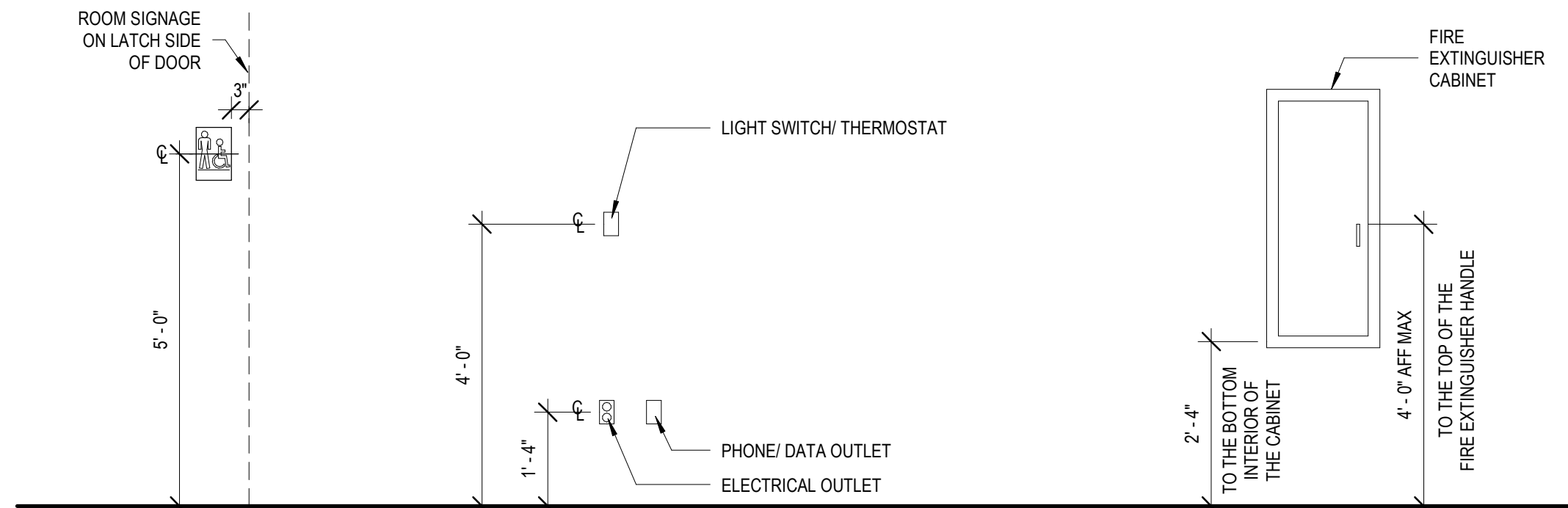
KEY PLAN:

SHEET STATUS: 04/21/2026
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NO.	DESCRIPTION:	DATE:

SHEET TITLE:
SHEET INDEX, ABBREVIATIONS, SYMBOLS & NOTES

SHEET NUMBER:
G1.00



NOTE: IN THE EVENT OF A CONFLICT BETWEEN DIMENSIONS SHOWN ON THIS DRAWING AND ANY OTHER ARCHITECTURAL, ELECTRICAL, OR MECHANICAL SHEETS OR SPECIFICATIONS, NOTIFY ARCHITECT OF DISCREPANCY.

MCHENRY COUNTY COLLEGE FIRE TOWER REPLACEMENT 8900 US-14 CRYSTAL LAKE, ILLINOIS 60012

PARCEL # 13-25-300-021



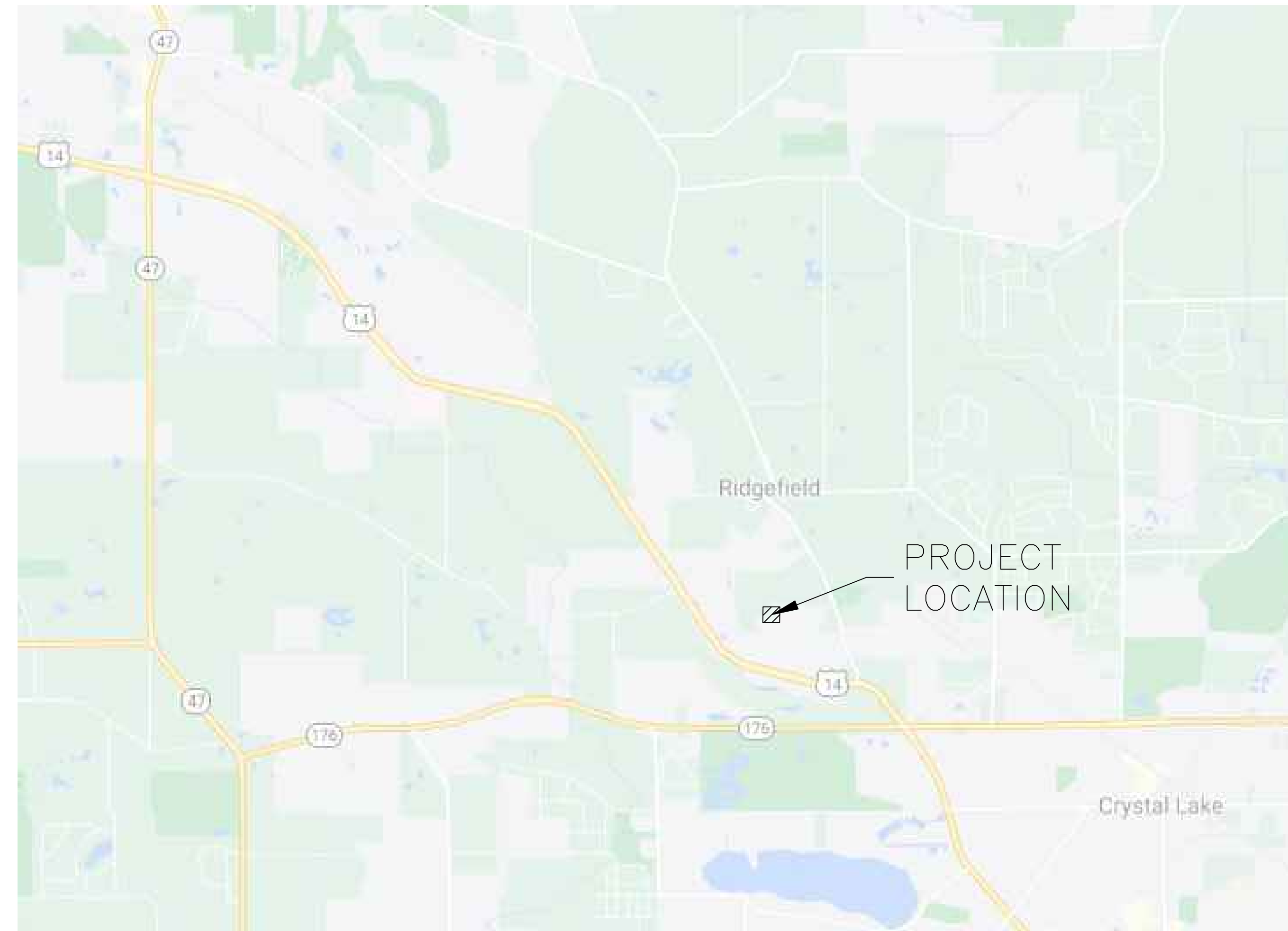
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ELECTRICAL ENGINEER:
2010 ENGINEERING
1216 TOWER ROAD,
SCHAUMBURG, IL 60173
P: 847.882.2010

LOCATION MAP



SHEET INDEX

Sheet Number	Sheet Title
C-00	COVER SHEET
C-01	GENERAL NOTES, SPECIFICATIONS & LEGEND
C-02	SITE DEMOLITION PLAN
C-03	SITE & UTILITY PLAN
C-04	GRADING & EROSION CONTROL PLAN
C-05	GRADING DETAIL PLAN
C-06	EROSION CONTROL DETAILS
C-07	EROSION CONTROL DETAILS
C-08	EROSION CONTROL DETAILS

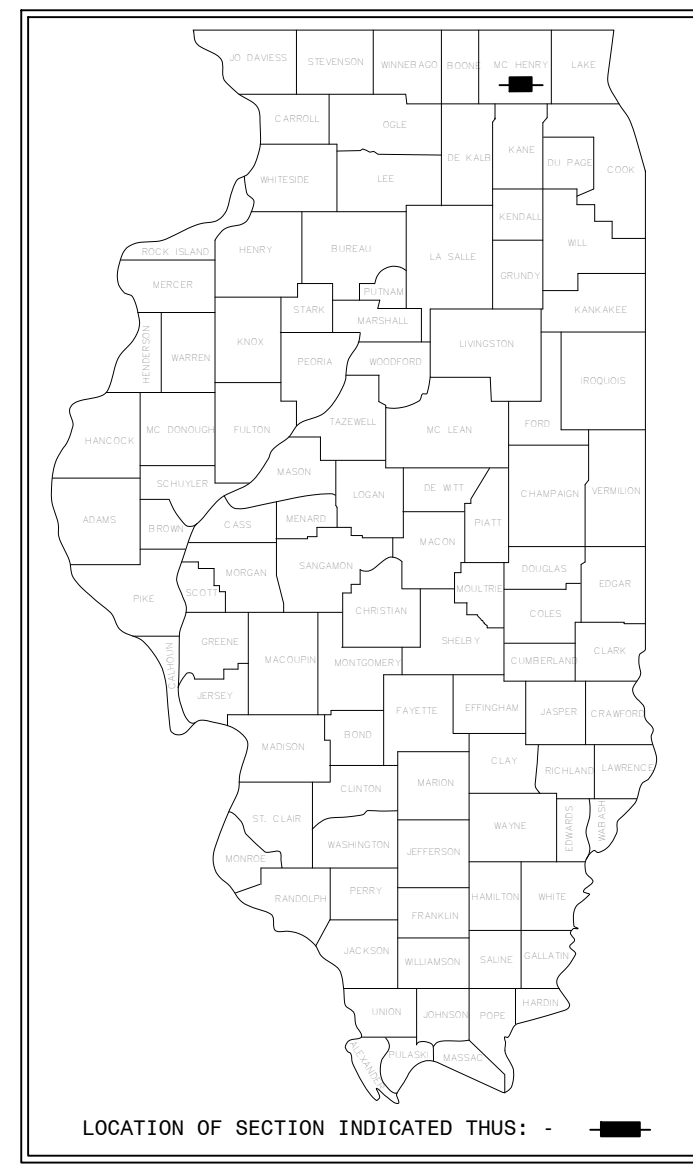
OWNER:
MCHENRY COUNTY COLLEGE
8900 U.S. HIGHWAY 14
CRYSTAL LAKE, ILLINOIS 60012

ENGINEER:
HR GREEN INC.,
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL 60050
PHONE: (815) 385-1778

JOE VAVRINA, PE, REGIONAL DIRECTOR
PHONE: (815) 759-8363

SURVEYOR:
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1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL 60050
PHONE: (815) 385-1778

JOHN BOLINE, P.L.S. - PROJECT SURVEYOR
PHONE: (815) 759-8375



NOTE:

- HR GREEN, INC. IS TO BE NOTIFIED 3 DAYS PRIOR TO CONSTRUCTION START.
- HR GREEN, INC. SHALL BE INCLUDED IN ALL PRE-CONSTRUCTION MEETINGS.
- ANY KNOWN DISCREPANCIES ON THIS PLAN SET MUST BE BROUGHT TO THE ATTENTION OF HR GREEN, INC. PRIOR TO THE START OF CONSTRUCTION.

SITE BENCHMARK NOTES:

- SOURCE BENCHMARK: BENCHMARK #4" PER AS SHOWN ON THE PLANS FOR "MCHENRY COUNTY COLLEGE NEW SCIENCE CENTER" DATED AUGUST 11, 2017, BEING A CUT SQUARE ON NORTH FACE OF LIGHT POLE BASE LOCATED IN THE MIDDLE CURB ISLAND LOCATED EAST OF PARKING LOT D, NORTH OF THE RING ROAD AND SOUTH OF BUILDING D.
 - ELEV = 921.24 (NAVD 88)
- SITE BENCHMARK (BM#1): NORTHWEST ARROW BOLT ON THE FIRE HYDRANT LOCATED APPROXIMATELY 90 FEET WESTERLY OF THE ENTRANCE TO BUILDING E.
 - ELEV = 921.49 (NAVD 88)
- SITE BENCHMARK (BM#2): NORTHEAST ARROW BOLT ON THE FIRE HYDRANT LOCATED APPROXIMATELY 70 FEET NORTHEASTERLY OF THE ENTRANCE TO BUILDING B.
 - ELEV = 919.44 (NAVD 88)
- HR GREEN, INC. CONTROL DISCLAIMER: THE ATTACHED BENCHMARKS ARE FOR CONSTRUCTION PURPOSES ONLY. BY USING THE DATA PROVIDED HEREON, USERS ARE RESPONSIBLE FOR VERIFYING THE ACTUAL HORIZONTAL AND VERTICAL LOCATIONS OF PROPOSED IMPROVEMENTS BASED ON THE EXISTING EXTERIOR PROPERTY CORNERS AND SITE BENCHMARKS. HR GREEN, INC. ASSUMES NO RESPONSIBILITY FOR THE IMPROPER USE OF THE INFORMATION HEREIN PROVIDED.



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COVER SHEET

SHEET NUMBER:
C-00

CERTIFICATION

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Illinois.

JOSEPH F. VAVRINA, P.E.
DATE: 04/21/2026
License Number: 062-058926
My license renewal date is December 31, 2027.
Pages or sheets covered by this seal:
ALL C SHEETS

Dial 811 or 1-800-892-0123

811

Know what's below.
Call before you dig.

CALL JULIE 1-800-892-0123

WITH THE FOLLOWING:
COUNTY: McHenry
CITY-TOWNSHIP: Crystal Lake - Darr
SEC. & 1/4 SEC. NO. # SW 1/4 OF SEC-25-T-44N-7E

48 hours before you dig
(Excluding Sat., Sun. & Holidays)



1391 CORPORATE DRIVE, SUITE 203 | MCHENRY, ILLINOIS 60050
Phone: 815.385.1778 | Toll Free: 800.728.7805 | Fax: 815.385.1781 | HRGreen.com

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SPECIFICATIONS & GENERAL NOTES

All items of this project shall be governed by specifications included in the documents listed below:

- A. "Standard Specifications for Road and Bridge Construction" prepared by the Department of Transportation of the State of Illinois and adapted by said department (latest revision).
- B. "Supplemental Specifications and Recurring Special Provisions" adopted by the Illinois Department of Transportation (latest revision date).
- C. "Standards and Specifications for Soil Erosion and Sediment Control" (latest revision).
- D. "Standard Specifications for Water and Sewer Main Construction in Illinois" (latest revision).

In addition the following special provisions supplement the said specifications, and in case of conflict with any part or parts of said specifications, these special provisions shall take precedence and shall govern.

- 1. **SCOPE OF WORK:** The proposed improvement consists of supplying all the necessary labor, material and equipment to satisfactorily construct and install all improvements according to the plans designated as "MCHENRY COUNTY COLLEGE FIRE TOWER".

2. CONSTRUCTION OF UNDERGROUND UTILITIES

- A. **Excavation:** Where working conditions and right-of-way permit, pipe line trenches with sloping sides may be used.

The slopes shall not extend below the top of the pipe, and trench excavations below this point shall be made with vertical sides with widths not exceeding those herein for the various sizes of pipe.

Open-cut trenches shall be sheeted and braced as required by the governing State and Federal laws and municipal ordinances, and as may be necessary to protect life, property, or the work.

Where firm foundation is not encountered at the grade established due to unsuitable soil, all such unsuitable material shall be removed and replaced with approved compacted granular material.

- B. **Width of trench:** See trench detail.

- C. **Removal of water:** Contractors shall, at all times during construction, provide and maintain ample means and devices with which to remove any properly disposed of all water entering the excavations. No sanitary sewer shall be used for disposal of trench water, unless specifically approved by the Engineer and then only if the trench water does not ultimately arrive at existing pumping or sewage treatment facilities.

- D. **Bedding of pipe:** All pipe shall be installed on a bed of approved, compacted granular material unless otherwise approved by the City Engineer. The bedding and backfilling of excavated materials shall be cleared with City first and be installed as per typical trench backfill detail.

- E. **Special backfill:** Whenever the excavation is in existing or proposed street, parking areas, driveways, or other paved areas, the trench shall be backfilled with approved selected granular material, compacted in place. The top 12" of the backfill shall be filled with road gravel or crushed stone and maintained as a temporary surface for the normal use of the area. Special backfill shall meet the requirements of the City of Crystal Lake standard detail UO-02. Note: Excavated materials may be used if approved by the City Engineer.

- F. **Restoration of drainage:** As soon as possible after backfilling the trench, all ditching, grading and shaping necessary to restore the original drainage in the area of work shall be performed. Culverts removed during the course of the work shall be replaced as soon as practicable. Adequate temporary drainage facilities shall be provided during construction.

- G. **Utilities:** The Contractor shall notify all utilities prior to the installation of any pipe lines. Where conflict exists between underground utilities and the proposed underground piping requiring a revision to the plans, such construction shall not be undertaken until such changes are approved by the City Engineer in writing.

- 3. The subgrade shall be free of unsuitable material and shall be prepared in accordance with the recommendations noted in the geotechnical report prepared by Midland Standard, dated February 26, 2008 for this project. Testing for compaction shall be the responsibility of the contractor. The City of Crystal Lake will require a proof-roll test if warranted by final soil compaction. This also applies to the parking lot and side subgrade and also upon gravel placement. All topsoil and any organic materials shall be removed.

- 4. **Easements for the existing utilities, both public and private, and utilities within public rights-of-way are shown on the plans according to available records. The Contractor shall be responsible for determining the exact location in the field of these utility lines and their protection from damage due to construction operations. If existing utility lines of any nature are encountered which conflict in location with new construction, the Contractor shall notify the Engineer so that the conflict may be resolved.**

- 5. Contractor shall be responsible for securing all Permits including municipal permits.

- 6. **INSPECTION:** All improvements shall be subject to inspection by a duly authorized and qualified City Inspector both during the course of construction and after construction is completed. The Inspector shall have authority over materials of construction, methods of construction and workmanship to insure compliance with working drawings and specifications. The Contractor shall provide for responsible tests and proof of quality of materials as requested by the Inspector. Inspector shall have forty-eight (48) hours notice prior to construction.

- 7. **Whenever a sewer crosses under a water main, the minimum vertical distance from the top of the sewer to the bottom of the water main shall be 18". Furthermore, a minimum horizontal distance of 10" between sanitary sewers and water mains shall be maintained. If either the vertical or horizontal distances described above cannot be maintained, or the sewer crosses above the water main, the sewer pipe shall be pipe of water main type quality and water main quality joints, or the water main shall be encased in a steel sleeve for a perpendicular distance of 10' on each side of the sewer.**

- 8. **PROTECTION OF WATER MAIN AND WATER SERVICE LINES.** Water mains and water service lines shall be protected from sanitary sewers, storm sewers, combined sewers, house sewer service connections and drains as follows:

A. Water Service Lines

- 1. **Horizontal Separation**
 - a. Water mains shall be laid at least 10" horizontally from any existing or proposed drain, storm sewer, sanitary sewer, combined sewer or sewer service connection.
 - b. Water mains may be laid closer than 10" to a sewer line when:
 - (1) Local conditions present a lateral separation of 10";
 - (2) The water main invert is at least 18" above the crown of the sewer;
 - (3) The water main is either in a separate trench or in the same trench on an undisturbed earth shell located to one side of the sewer with a minimum vertical separation of 18".

- 2. **Vertical Separation**
 - a. Both the water main and drain or sewer shall be constructed of slip-on or mechanical joint cast or ductile iron pipe, or PVC pipe meeting the requirements of Section 653.111 when it is impossible to meet (a) or (b) above. The drain or sewer shall be pressure tested to the maximum expected surcharge head before backfilling.

- 3. **Horizontal Separation**
 - a. A water main shall be laid so that its invert is 18" above the crown of the drain or sewer whenever water mains cross storm sewers, sanitary sewers or sewer service connections. The vertical separation shall be maintained for that portion of the water main located within 10' horizontally of any sewer or drain crossed. A length of water main pipe shall be centered over the sewer to be crossed with joints equidistant from the sewer or drain.

- 4. **Vertical Separation**
 - a. Both the water main and sewer shall be constructed of slip-on or mechanical joint cast or ductile iron pipe, or PVC pipe meeting requirements of Section 653.111 when:
 - (1) It is impossible to obtain the proper vertical separation as described in (a) above; and
 - (2) The water main passes under a sewer or drain.

- 5. **Vertical Separation**
 - a. A vertical separation of 18" between the invert of the sewer or drain and the crown of the water main shall be maintained, where a water main crosses under a sewer. Support the sewer or drain lines to prevent settling and breaking the water main.

- 6. **Construction shall extend on each side of the crossing until the normal distance from the water main to the sewer or drain line is at least 10'.**

- 7. **Special Conditions:** Alternate solutions shall be presented to the Agency when extreme topographical, geological or existing structural conditions make strict compliance with (A) and (B) above technically and economically impractical. Alternate solutions will be approved provided water-tight construction structurally equivalent to approved water main material is proposed.

- 9. The Contractor may not remove any material from the site except as directed by the Owner or Engineer in the case of excess material.

- 10. **TOPSOIL PLACEMENT:** All non-paved disturbed areas shall be restored w/ 6" topsoil and Class 1A Silt with excelsior biostret.

- 11. The Engineer and City of Crystal Lake Engineering Department shall be notified if, during construction, any buried field lines are exposed or disturbed. The Contractor shall reconnect said field lines if deemed necessary.

- 12. Contractor shall provide insurance coverage as per Article 107.27 of the Standard Specifications. The "Department" shall be taken to mean HR Green, Inc. The policy of insurance shall include HR Green, Inc., the City of Crystal Lake and its Agents as an additional insured or provide separate coverage with an Owner's Protective Policy, as per the amounts stated in the Standard Specifications. No work shall begin until the certificate of insurance is on file with the Engineer. All costs for insurance shall be considered incidental to the contract.

- 13. All handicapped parking signs must have a \$250.00 fine sign attached.

- 14. Lighting shall be constructed as per the electrical plan, done under separate contract by Electrical Consultant. All conduit shall be placed outside of any municipal easements except for authorized 90' crossings.

- 15. The Contractor shall be responsible for the installation and maintenance of adequate signs, traffic control devices, and warning devices to inform and protect the public during phases of construction. See City Standard Traffic Control detail for lane closures of public roads.

- 16. The Engineer shall be responsible for the following:

- A. To visit the construction site in order to better carry out the duties and responsibilities assigned by the Owner and undertaken by the Engineer; and

- B. The Engineer shall not, during such visits or as a result of such observations of the Contractor's work in progress, supervise, direct, have control over the Contractor's work, nor shall the Engineer have the authority over the responsibility for the means, methods, techniques, sequences or schedules of construction selected by the Contractor, for safety precautions and programs incidental to the work of the Contractor, or for any failure of the Contractor to comply with laws, rules, regulations, ordinances, codes or orders applicable to the Contractor furnishing and performing his work. Accordingly, the Engineer can neither guarantee the performance of the construction contracts by the Contractor nor assume responsibility for the Contractor's failure to furnish and perform his work in accordance with the Contract Documents.

- 17. No construction plans shall be used for construction unless specifically marked "For Construction." Prior to commencement of construction, the Contractor shall verify all dimensions and conditions affecting their work with the actual conditions at the job site. In addition, the Contractor must verify the Engineer's line and grade stakes. If there are any discrepancies from what is shown on the construction plans, he must immediately report same to the Engineer before doing any work, otherwise the Contractor assumes full responsibility. In the event of disagreement between the construction plans, standard specifications and/or special details, the Contractor shall secure written instructions from the Engineer prior to proceeding with any part of the work affected by omissions or discrepancies. Failing to secure such instructions, the Contractor will be considered to have proceeded at his own risk and expense.

- 18. The Contractor shall indemnify and hold harmless the City, City's Engineers, their agents and its employees, HR Green, Inc. and McHenry County College, from and against all claims, damages, losses and expenses, including attorney's fees arising out of or resulting from the performance of the Contractor's work. In any and all claims against the City or its employees, by any employee of the Contractor, or anyone directly or indirectly employed by the Contractor, or anyone for whose acts the Contractor may be liable, the indemnification obligation shall not be limited in any way by any limitation on the amount of damages, waiver of subrogation, compensation or benefits payable by or for the Contractor under Workmen's Compensation acts, disability benefit acts or other employee benefit acts.

- 19. Saving of removal items as noted on the plans, specified in Section 440 of the Standard Specifications, or as required by the engineer, shall be considered incidental to the cost of the item being removed, and no extra compensation will be allowed, unless otherwise specified.

- 20. **PROTECTIVE COAT:** This work shall be in accordance with Section 420 of the Standard Specifications insofar as applicable with the following revision:
The protective coat shall be applied to all exposed surfaces of Combination Concrete Curb and Gutter, Concrete Median and Concrete Corrugated Median.

- 21. This work will be paid for at the contract unit price per square yard for Protective Coat.

- 22. A performance guarantee shall be required (letter of credit) for all public utilities. Also, a two year maintenance bond shall be established upon completion of work.

- 23. All pavement markings on main access drives, approaches and parking lot shall be painted with two (2) coats of WHITE STRIPING WILLIAMS "TRUCKER TRAFFIC WARNING".
Pavement Striping: All proposed pavement striping to be painted.
All Handicap striping shall be yellow.

- 24. **CONCRETE PAVEMENT:** The contractor will need to provide a grid spacing layout for approval by the engineer.

- 25. The curing requirements should follow Section 1022.01, (b) with fugitive dye as noted in the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Latest Edition. Sealers should follow Section 1026 of the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Latest Edition.

- 26. Joint sealing shall follow Section 1028 of the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Latest Edition.

- 27. The concrete sealer, in addition to conforming with the referenced Standard Specification section, shall be selected from the current IDOT approved product list for Plural Component Concrete Sealers, or equal. The concrete sealer must dry to a clear finish. All exterior concrete surfaces shall be sealed. The contractor shall provide documentation from the sealer provider, segmental block wall supplier and concrete pavement supplier noting the sealer is compatible with all exterior concrete surfaces that it is to be applied to. Contractor to also provide cut sheets of the desired sealer to the engineer for approval prior to ordering.

- 28. All surplus soil that will need to be hauled and disposed of offsite will need to be certified that it is not contaminated as defined under 415 ILCS 5/3.160 and any fees, taxes, surcharges charged by or through the operator(s) of clean construction or demolition debris (CCDD) or uncontaminated soil fill operations for the acceptance of uncontaminated soil shall be paid for by the contractor and those fees included in their bid price.

SYMBOL LEGEND	
EXISTING	PROPOSED
SANITARY MANHOLE	
STORM MANHOLE	
STORM CATCH BASIN/INLET	
INLET	
FLARED END SECTION	
DRY WELL	
VALVE VAULT	
FIRE HYDRANT	
LIGHT POLE	
STREET SIGN	
REGULATORY SIGN	
UTILITY POLE	
UTILITY BOX	
MAILBOX	
WELL	
STORM SEWER	
SANITARY SEWER	
CULVERT	
WATER MAIN	
WATER MAIN ENCASEMENT	
SANITARY FORCE MAIN	
STORM UNDERDRAIN	
ELECTRIC LINE	
TELEPHONE LINE	
GAS LINE	
CABLE TV LINE	
TREE LINE	
TREE	
CONTOURS	
FENCE	
STONE RIP RAP	
EROSION CONTROL FENCE (QUANTITY SPECIFIED PER PLANS)	
DRAINAGE DIRECTION ARROW	
10-100 YEAR OVERFLOW DIRECTION ARROW	



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ELECTRICAL ENGINEER:
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1216 TOWER ROAD,
SCHAUMBURG, IL 60173
P: 847.882.2010

McHenry County College
Fire Tower Replacement
8900 Northwest Hwy #14, Crystal Lake, IL 60012
DKA PROJECT NO: 25-028

KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
GENERAL NOTES, SPECIFICATIONS & LEGEND

SHEET NUMBER:
C-01



- PROJECT NOTES:**
- LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES. IN ADDITION TO, NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED. SEE SHEETS C-06 THRU C-08 FOR EROSION CONTROL MEASURES)
 - ALL EXISTING UTILITIES TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL COORDINATE AND COMPLY WITH ALL UTILITY COMPANIES INVOLVED IN PROJECT AND PAY ALL REQUIRED FEES AND COSTS.
 - ALL STRUCTURES & DEBRIS SHALL BE REMOVED PRIOR TO CONSTRUCTION & DISPOSED OF OFFSITE.
 - ANY EXISTING FIELD DRAIN TILES ENCOUNTERED SHALL BE RECONNECTED OR CONNECTED TO THE NEAREST STORM SEWER.
 - ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - CONTRACTOR TO KEEP RING ROAD (CIRCLE DR.) OPEN AT ALL TIMES.
 - THE CONTRACTOR IS CAUTIONED NEITHER TO OBSTRUCT NOR REMOVE ANY EXISTING PAVEMENT, NOR TO DISTURB THE EXISTING TRAFFIC PATTERNS MORE THAN IS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.

- STAGING NOTE:**
(STAGING SUBJECT TO CHANGES PER SITE CONTRACTORS SCHEDULE AND METHODS OF OPERATION)
- EROSION CONTROL MEASURES
 - PLAN REMOVALS
 - GRADING
 - BUILDING CONSTRUCTION
 - PAVING
 - TOPSOIL RESPREAD/SEED

- LEGEND**
- INDICATES BUILDING/FOUNDATION REMOVAL
 - INDICATES CONCRETE REMOVAL (FULL DEPTH) (SEE TAGS FOR INFORMATION)
 - INDICATES LANDSCAPE/ROCK MULCH REMOVAL
 - INDICATES MISC. REMOVAL ITEMS
 - INDICATES EXIST. CONCRETE CURB & GUTTER OR WALL TO BE REMOVED
 - INDICATES TREE AND BRUSH REMOVAL (SEE LANDSCAPE PLANS)
 - INDICATES TREE AND BRUSH PROTECTION
 - INDICATES PAVEMENT SAWCUT
 - INDICATES UTILITY LINE REMOVAL

- NOTES:**
- MCHENRY COUNTY COLLEGE (MCC) SHALL BE NOTIFIED OF ALL NON IDENTIFIED UNDERGROUND UTILITIES OR CONDUITS DISCOVERED DURING CONSTRUCTION. IF ANY OF THE UTILITY OR CONDUITS NEED TO BE REPAIRED, PLUGGED, REROUTED AND OR ABANDONED IN PLACE, IT SHALL TAKE PLACE PER THE DIRECTION OF THE MCC.
 - ALL NON-PAVED DISTURBED AREAS SHALL BE RESTORED W/ 6" TOPSOIL AND CL 1A SEED W/ EXCELSIOR BLANKET

- REMOVAL NOTES:**
- ALL REMOVALS IN NON-PAVED AREAS DENOTED TO REQUIRE CLEARING AND GRUBBING SHALL INCLUDE TOPSOIL STRIP AND STOCKPILE AS PART OF THE REMOVAL UNLESS OTHERWISE NOTED.

REMOVAL TAGS:

NUMBER	DESCRIPTION	REMARKS
R-1	BUILDING	REMOVE (FULL DEPTH)
R-2	CONCRETE PAVEMENT/SIDEWALK	REMOVE (FULL DEPTH)
R-3	TREE	REMOVE
R-4	ROCK MULCH	REMOVE
R-5	LIGHT POLE	REMOVE
R-6	SHOULDER/CURB	REMOVE
R-7	ELECTRIC SERVICE	REMOVE / RELOCATE
R-8	WATER METER	REMOVE
R-9	GAS METER	REMOVE
R-10	ELECTRIC METER	REMOVE



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CIVIL ENGINEER:
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ELECTRICAL ENGINEER:
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1216 TOWER ROAD,
SCHAUMBURG, IL 60173
P: 847.882.2010

McHenry County College
Fire Tower Replacement
8900 Northwest Hwy #14, Crystal Lake, IL 60012
DKA PROJECT NO: 25-028

KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID - NOT FOR CONSTRUCTION

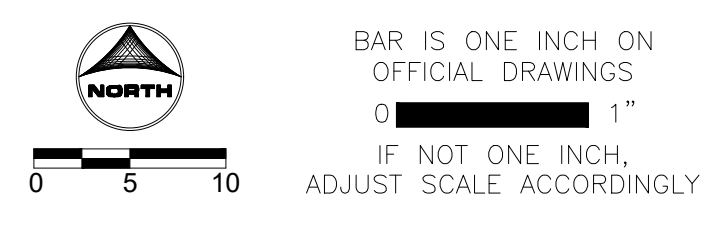
NO.	DESCRIPTION:	DATE:

SHEET TITLE:
SITE DEMOLITION PLAN

SHEET NUMBER:
C-02

Dial 811 or 1-800-892-0123
811
Know what's below.
Call before you dig.

CALL JULIE 1-800-892-0123
WITH THE FOLLOWING:
COUNTY McHenry
CITY-TOWNSHIP Crystal Lake - Dorr
SEC. & 1/4 SEC. NO.# SW 1/4 OF SEC-25-T-44N-7E
48 hours before you dig
(Excluding Sat., Sun. & Holidays)



ISSUED FOR BID - NOT FOR CONSTRUCTION



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 SCHAUMBURG, IL 60173
 P: 847.882.2010

McHenry County College
Fire Tower Replacement
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 DKA PROJECT NO: 25-028

KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
SITE & UTILITY PLAN

SHEET NUMBER:
C-03

SITE DATA:

- PIN: 13-25-300-021
- PROPOSED LIMITS OF DISTURBANCE AREA: 21,717± SQ. FT. (0.50 ACRES)
- EXISTING IMPERVIOUS WITHIN LIMITS OF DISTURBANCE AREA: 2,861± SQ. FT. (12.84%)
- PROPOSED IMPERVIOUS WITHIN LIMITS OF DISTURBANCE AREA: 11,455± SQ. FT. (52.75%)
- NET CHANGE IN IMPERVIOUS AREA: 8,594± SQ. FT. INCREASE

BUILDING AREA:

- PROPOSED BUILDING TO BE CONSTRUCTED PER ARCHITECTURAL PLANS.

PARKING DATA:

- NO PROPOSED CHANGES TO EXISTING PARKING.

PROJECT NOTES:

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- ALL EXISTING UTILITIES TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE AND COMPLY WITH ALL UTILITY COMPANIES INVOLVED IN PROJECT AND PAY ALL REQUIRED FEES AND COSTS.
- ALL STRUCTURES & DEBRIS SHALL BE REMOVED PRIOR TO CONSTRUCTION & DISPOSED OF OFFSITE.
- ANY EXISTING FIELD DRAIN TILES ENCOUNTERED SHALL BE RECONNECTED OR CONNECTED TO THE NEAREST STORM SEWER.
- ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- CONTRACTOR TO KEEP RING ROAD (CIRCLE DR.) OPEN AT ALL TIMES.
- THE CONTRACTOR IS CAUTIONED NEITHER TO OBSTRUCT NOR REMOVE ANY EXISTING PAVEMENT, NOR TO DISTURB THE EXISTING TRAFFIC PATTERNS MORE THAN IS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.

NOTES:

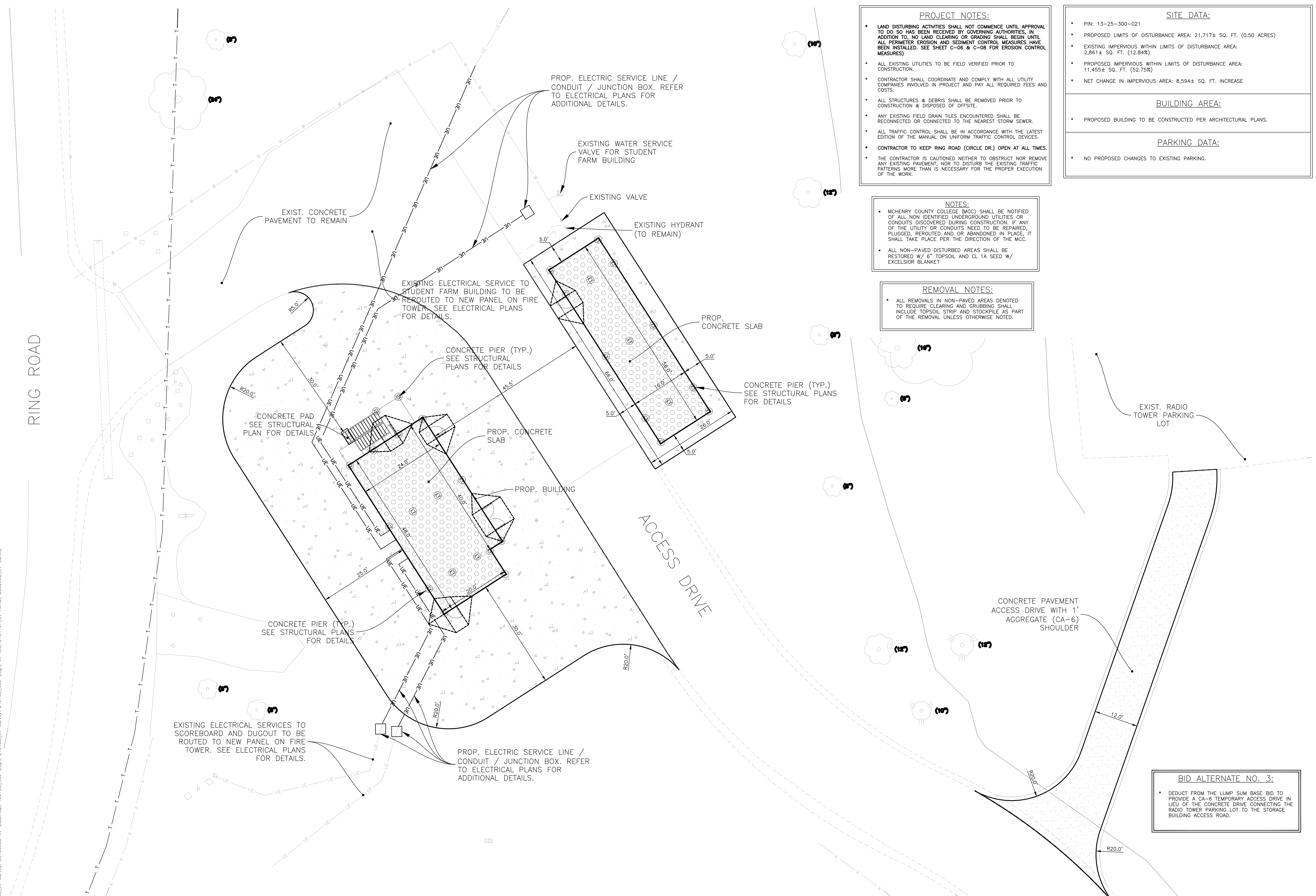
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- ALL NON-PAVED DISTURBED AREAS SHALL BE RESTORED W/ 6" TOPSOIL AND CL 1A SEED W/ EXCELSIOR BLANKET

REMOVAL NOTES:

- ALL REMOVALS IN NON-PAVED AREAS DENOTED TO REQUIRE CLEARING AND GRUBBING SHALL INCLUDE TOPSOIL STRIP AND STOCKPILE AS PART OF THE REMOVAL UNLESS OTHERWISE NOTED.

BID ALTERNATE NO. 3:

- DEDUCT FROM THE LUMP SUM BASE BID TO PROVIDE A CA-6 TEMPORARY ACCESS DRIVE IN LIEU OF THE CONCRETE DRIVE CONNECTING THE RADIO TOWER PARKING LOT TO THE STORAGE BUILDING ACCESS ROAD.



Dial 811 or 1-800-892-0123
811
 Know what's below. Call before you dig.
 CALL JULIE 1-800-892-0123
 WITH THE FOLLOWING:
 COUNTY: McHenry
 CITY-TOWNSHIP: Crystal Lake - Barr
 SEC. & 1/4 SEC. NO.# SW 1/4 OF SEC-25-T-44N-7E
 48 hours before you dig (Excluding Sat., Sun. & Holidays)

PROJECT NOTES:

- CONTRACTOR TO COORDINATE W/ COLLEGE PRIOR TO CLOSING ANY PORTIONS OF THE EXISTING ACCESS DRIVE.
- ALL CONSTRUCTION FOR UTILITIES AND PAVEMENT SHOULD BE DONE IN ACCORDANCE WITH CITY OF CRYSTAL LAKE STANDARD SPECIFICATIONS.
- ALL PAVEMENT DIMENSIONS ARE MEASURED TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- ALL PAVEMENT RADII ARE 5.0' RADIUS MEASURED TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- ALL CURB ADJOINING SIDEWALKS SHALL BE DOWELED INTO THE CURB.

LEGEND

- DENOTES PAVEMENT SAWCUT
- DENOTES CONCRETE PAVEMENT
- DENOTES PROP. SIDEWALK
- DENOTES CONCRETE PAVEMENT (ACCESS DRIVE)
- DENOTES CONCRETE SLAB

STANDARD CONCRETE PAVEMENT SECTION

8" CONCRETE PAVEMENT
 6 X 6 W10 X W10 W.W.F.
 6" MIN. AGGREGATE BASE,
 (CA-6, 100 % CRUSHED)

TYPICAL ALL EXTERIOR CONCRETE:
 - CLASS PV CONCRETE
 - 4000# CONCRETE
 - CONTROL JOINTS PER CONTRACTOR LAYOUT (SEE SPECIFICATIONS FOR ADDITIONAL CRITERIA)
 (SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION)

CONCRETE SLAB SECTION

4" CONCRETE PAVEMENT
 4" MIN. AGGREGATE BASE,
 (CA-6, 100 % CRUSHED)

TYPICAL ALL EXTERIOR CONCRETE:
 - CLASS PV CONCRETE
 - 4000# CONCRETE
 - CONTROL JOINTS PER CONTRACTOR LAYOUT (SEE SPECIFICATIONS FOR ADDITIONAL CRITERIA)
 (SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION)

STANDARD CONCRETE PAVEMENT SECTION (ACCESS DRIVE)

5" CONCRETE PAVEMENT
 6 X 6 W10 X W10 W.W.F.
 4" MIN. AGGREGATE BASE,
 (CA-6, 100 % CRUSHED)

TYPICAL ALL EXTERIOR CONCRETE:
 - CLASS PV CONCRETE
 - 4000# CONCRETE
 - CONTROL JOINTS PER CONTRACTOR LAYOUT (SEE SPECIFICATIONS FOR ADDITIONAL CRITERIA)
 (SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION)

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

ISSUED FOR BID - NOT FOR CONSTRUCTION



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CIVIL ENGINEER:
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 P: 815.385.1778

ELECTRICAL ENGINEER:
 2010 ENGINEERING
 1216 TOWER ROAD,
 SCHAUMBURG, IL 60173
 P: 847.882.2010

McHenry County College
Fire Tower Replacement
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 DKA PROJECT NO: 25-028

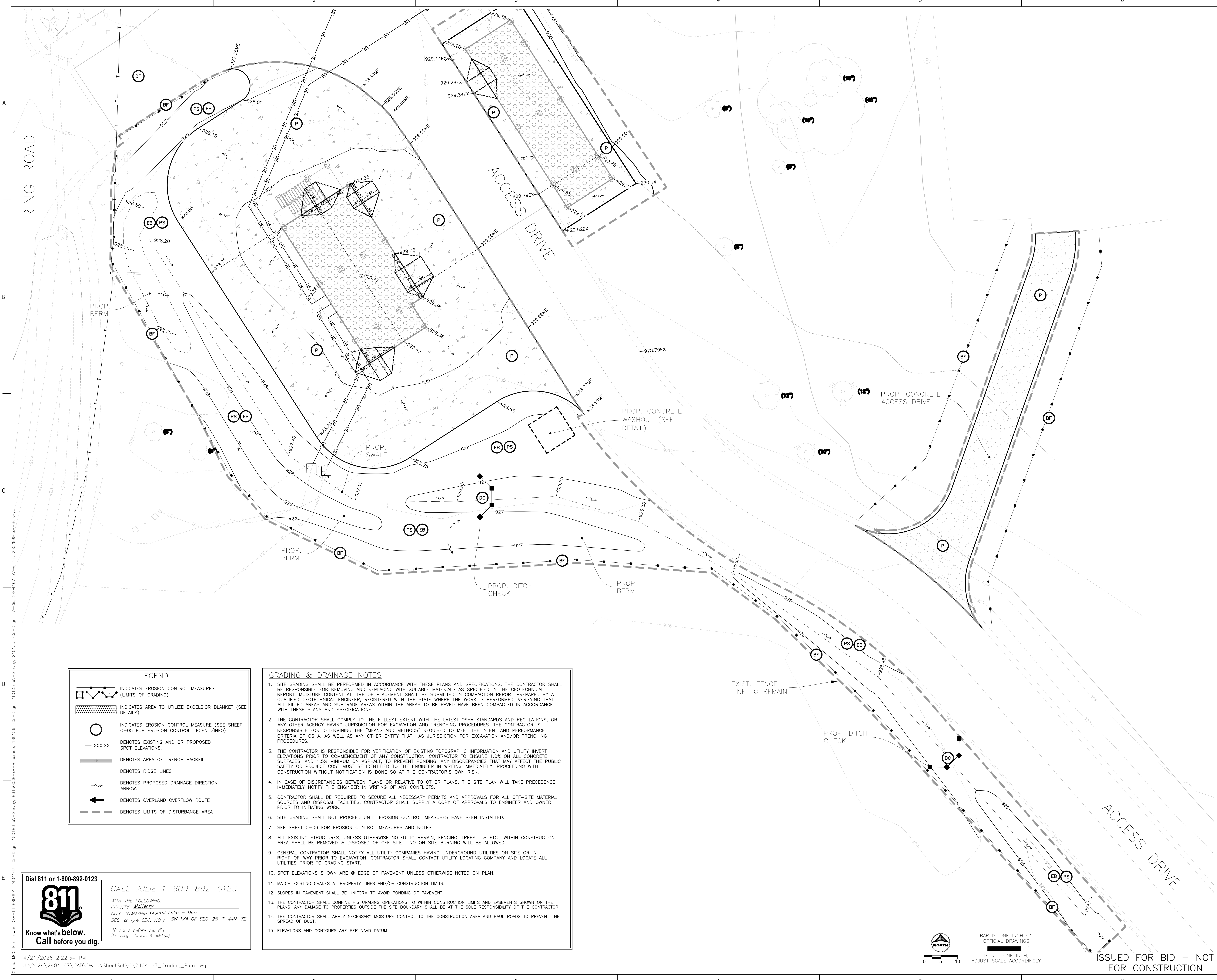
KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
GRADING & EROSION CONTROL PLAN

SHEET NUMBER:
C-04



LEGEND

- INDICATES EROSION CONTROL MEASURES (LIMITS OF GRADING)
- INDICATES AREA TO UTILIZE EXCELSIOR BLANKET (SEE DETAILS)
- INDICATES EROSION CONTROL MEASURE (SEE SHEET C-05 FOR EROSION CONTROL LEGEND/INFO)
- DENOTES EXISTING AND OR PROPOSED SPOT ELEVATIONS.
- DENOTES AREA OF TRENCH BACKFILL
- DENOTES RIDGE LINES
- DENOTES PROPOSED DRAINAGE DIRECTION ARROW.
- DENOTES OVERLAND OVERFLOW ROUTE
- DENOTES LIMITS OF DISTURBANCE AREA

GRADING & DRAINAGE NOTES

- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEOTECHNICAL REPORT. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL BE SUBMITTED IN COMPACTION REPORT PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER, REGISTERED WITH THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS AND REGULATIONS, OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE "MEANS AND METHODS" REQUIRED TO MEET THE INTENT AND PERFORMANCE CRITERIA OF OSHA, AS WELL AS ANY OTHER ENTITY THAT HAS JURISDICTION FOR EXCAVATION AND/OR TRENCHING PROCEDURES.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO ENSURE 1.0% ON ALL CONCRETE SURFACES; AND 1.5% MINIMUM ON ASPHALT, TO PREVENT PONDING. ANY DISCREPANCIES THAT MAY AFFECT THE PUBLIC SAFETY OR PROJECT COST MUST BE IDENTIFIED TO THE ENGINEER IN WRITING IMMEDIATELY. PROCEEDING WITH CONSTRUCTION WITHOUT NOTIFICATION IS DONE SO AT THE CONTRACTOR'S OWN RISK.
- IN CASE OF DISCREPANCIES BETWEEN PLANS OR RELATIVE TO OTHER PLANS, THE SITE PLAN WILL TAKE PRECEDENCE. IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY CONFLICTS.
- CONTRACTOR SHALL BE REQUIRED TO SECURE ALL NECESSARY PERMITS AND APPROVALS FOR ALL OFF-SITE MATERIAL SOURCES AND DISPOSAL FACILITIES. CONTRACTOR SHALL SUPPLY A COPY OF APPROVALS TO ENGINEER AND OWNER PRIOR TO INITIATING WORK.
- SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
- SEE SHEET C-06 FOR EROSION CONTROL MEASURES AND NOTES.
- ALL EXISTING STRUCTURES, UNLESS OTHERWISE NOTED TO REMAIN, FENCING, TREES, & ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED & DISPOSED OF OFF SITE. NO ON SITE BURNING WILL BE ALLOWED.
- GENERAL CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAY PRIOR TO EXCAVATION. CONTRACTOR SHALL CONTACT UTILITY LOCATING COMPANY AND LOCATE ALL UTILITIES PRIOR TO GRADING START.
- SPOT ELEVATIONS SHOWN ARE @ EDGE OF PAVEMENT UNLESS OTHERWISE NOTED ON PLAN.
- MATCH EXISTING GRADES AT PROPERTY LINES AND/OR CONSTRUCTION LIMITS.
- SLOPES IN PAVEMENT SHALL BE UNIFORM TO AVOID PONDING OF PAVEMENT.
- THE CONTRACTOR SHALL CONFINE HIS GRADING OPERATIONS TO WITHIN CONSTRUCTION LIMITS AND EASEMENTS SHOWN ON THE PLANS. ANY DAMAGE TO PROPERTIES OUTSIDE THE SITE BOUNDARY SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL APPLY NECESSARY MOISTURE CONTROL TO THE CONSTRUCTION AREA AND HAUL ROADS TO PREVENT THE SPREAD OF DUST.
- ELEVATIONS AND CONTOURS ARE PER NAVD DATUM.

Dial 811 or 1-800-892-0123
811
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 WITH THE FOLLOWING:
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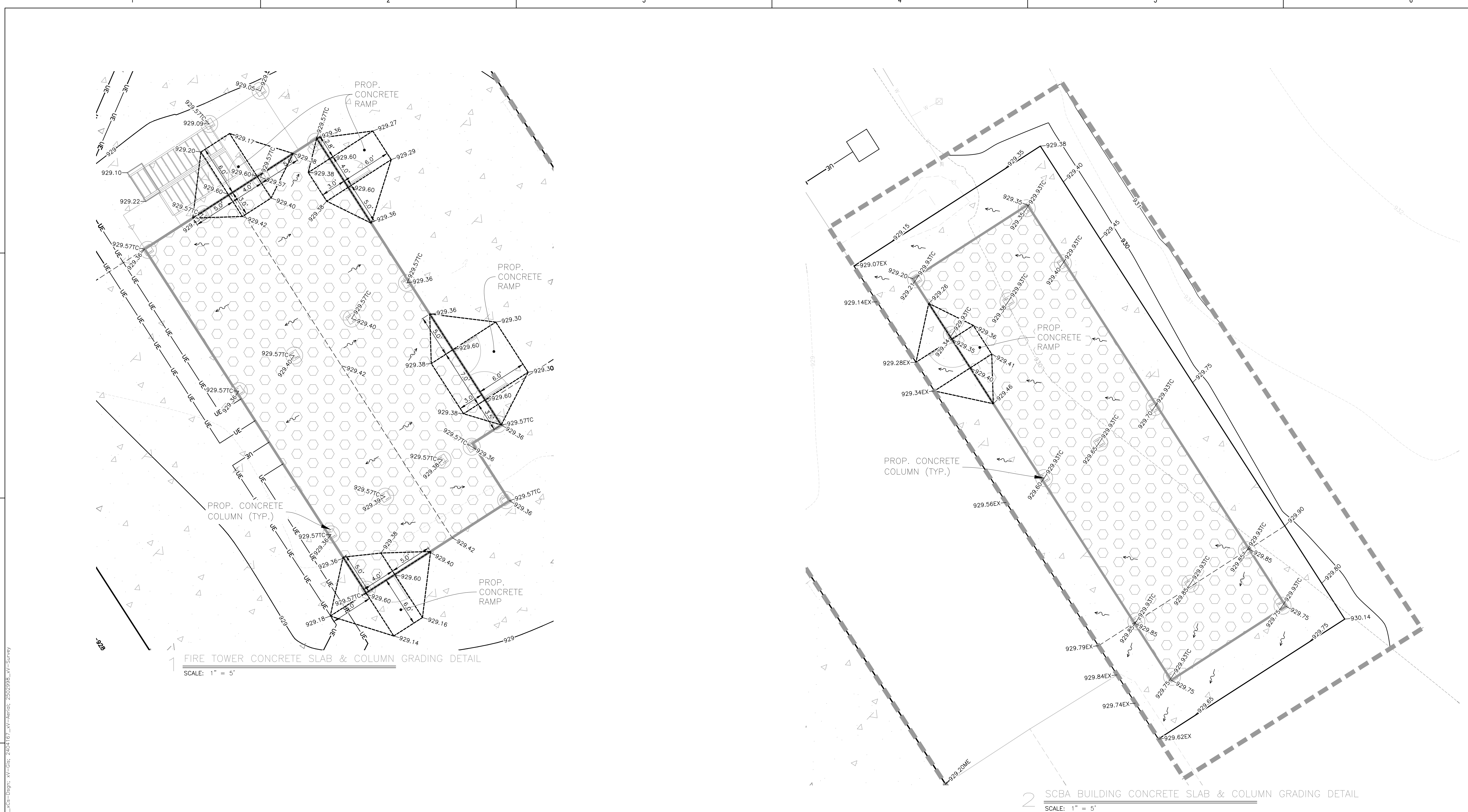
KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
GRADING DETAIL PLAN

SHEET NUMBER:
C-05



1 FIRE TOWER CONCRETE SLAB & COLUMN GRADING DETAIL
 SCALE: 1" = 5'

2 SCBA BUILDING CONCRETE SLAB & COLUMN GRADING DETAIL
 SCALE: 1" = 5'

LEGEND

	INDICATES EROSION CONTROL MEASURES (LIMITS OF GRADING)
	INDICATES AREA TO UTILIZE EXCELSIOR BLANKET (SEE DETAILS)
	INDICATES EROSION CONTROL MEASURE (SEE SHEET C-05 FOR EROSION CONTROL LEGEND/INFO)
	DENOTES EXISTING AND OR PROPOSED SPOT ELEVATIONS.
	DENOTES AREA OF TRENCH BACKFILL
	DENOTES RIDGE LINES
	DENOTES PROPOSED DRAINAGE DIRECTION ARROW.
	DENOTES OVERLAND OVERFLOW ROUTE
	DENOTES LIMITS OF DISTURBANCE AREA

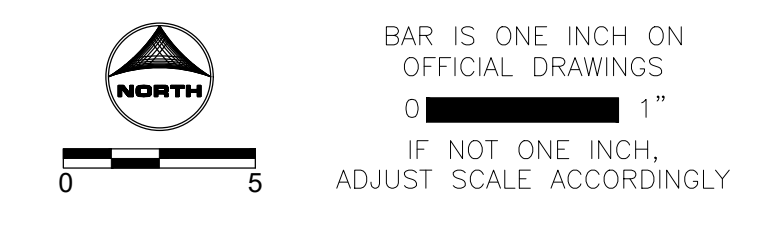
- GRADING & DRAINAGE NOTES**
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 - GENERAL CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAY PRIOR TO EXCAVATION. CONTRACTOR SHALL CONTACT UTILITY LOCATING COMPANY AND LOCATE ALL UTILITIES PRIOR TO GRADING START.
 - SPOT ELEVATIONS SHOWN ARE @ EDGE OF PAVEMENT UNLESS OTHERWISE NOTED ON PLAN.
 - MATCH EXISTING GRADES AT PROPERTY LINES AND/OR CONSTRUCTION LIMITS.
 - SLOPES IN PAVEMENT SHALL BE UNIFORM TO AVOID PONDING OF PAVEMENT.
 - THE CONTRACTOR SHALL CONFINE HIS GRADING OPERATIONS TO WITHIN CONSTRUCTION LIMITS AND EASEMENTS SHOWN ON THE PLANS. ANY DAMAGE TO PROPERTIES OUTSIDE THE SITE BOUNDARY SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 - THE CONTRACTOR SHALL APPLY NECESSARY MOISTURE CONTROL TO THE CONSTRUCTION AREA AND HAUL ROADS TO PREVENT THE SPREAD OF DUST.
 - ELEVATIONS AND CONTOURS ARE PER NAVD DATUM.

BID ALTERNATE NOTE

- CONCRETE RAMPS SHOWN ON PLAN SHOULD BE INCLUDED AS BID ALTERNATE.

Dial 811 or 1-800-892-0123
811
 Know what's below. Call before you dig.

CALL JULIE 1-800-892-0123
 WITH THE FOLLOWING:
 COUNTY McHenry
 CITY-TOWNSHIP Crystal Lake - Dorr
 SEC. & 1/4 SEC. NO. # SW 1/4 OF SEC-25-T-44N-7E
 48 hours before you dig
 (Excluding Sat., Sun. & Holidays)



ISSUED FOR BID - NOT FOR CONSTRUCTION

CONTROL MEASURE GROUP	CONTROL MEASURE	APPL.	KEY	CONTROL MEASURE CHARACTERISTICS	TEMP.	PERM.
VEGETATIVE SOIL COVER	TEMPORARY SEEDING	X	TS	PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING IS NOT DESIRED OR TIME OR YEAR IS INAPPROPRIATE.	X	
	PERMANENT SEEDING	X	PS	PROVIDES PERMANENT VEGETATIVE COVER TO CONTROL EROSION, FILTERS SEDIMENT FROM WATER, MAY BE PART OF FINAL LANDSCAPE PLAN.		X
	DORMANT SEEDING		DS	SAME AS PERMANENT SEEDING EXCEPT IS DONE DURING DORMANT SEASON. HIGHER RATES OF SEED APPLICATION ARE REQUIRED.		
	SODDING		SD	QUICK PERMANENT COVER TO CONTROL EROSION. QUICK WAY TO ESTABLISH VEGETATION. MAY BE USED AS PART OF A FINAL LANDSCAPE PLAN ALONG DRAINAGEWAYS WHERE SEEDING MAY BE DIFFICULT.		
	GROUND COVER		GC	PROVIDES GROUND COVER, SHRUBS AND TREES IN ADDITION TO PERMANENT VEGETATION. MAY BE USED AS PART OF A FINAL LANDSCAPE PLAN ALONG WITH SHRUBS AND TREES.		
NON VEGETATIVE SOIL COVER	MULCHING		M	ADDED INSURANCE OF A SUCCESSFUL TEMPORARY OR PERMANENT SEEDING. CONTROLS UNWANTED VEGETATION AND PROVIDES MOISTURE. PROVIDES COVER WHERE VEGETATION CANNOT BE ESTABLISHED.		
	AGGREGATE COVER		AG	PROVIDES SOIL COVER ON ROADS AND PARKING LOTS AND AREAS WHERE VEGETATION CANNOT BE ESTABLISHED. PREVENTS MUD FROM BEING PICKED UP AND TRANSPORTED OFF-SITE.		
	PAVING	X	P	PROVIDES PERMANENT COVER ON PARKING LOTS AND ROADS OR OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED.	X	
DIVERSIONS	EROSION BLANKET	X	EB	PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING TIME OF YEAR IS INAPPROPRIATE AND IN SLOPED AREAS.	X	
	RIDGE DIVERSION		RD	TYPICALLY USED ABOVE SLOPES. USED WHERE AN EXCESS OF SOIL IS AVAILABLE.		
	CHANNEL DIVERSION		CD	TYPICALLY USED AT TOP OR BASE OF SLOPES. USED WHEN EXCESS SOIL IS NOT EXTREMELY FAST.		
	COMBINATION DIVERSION		CB	TYPICALLY USED ANYWHERE ON A SLOPE. SOIL TAKEN OUT OF CHANNEL IS USED TO BUILD THE RIDGE.		
	CURB AND GUTTER		CG	SPECIAL CASE OF DIVERSION USED IN CONJUNCTION WITH A STREET TO DIVERT WATER FROM AN AREA NEEDING PROTECTION.		
WATERWAYS	BENCHES		B	SPECIAL CASE OF DIVERSION CONSTRUCTED WHEN WORKING ON CUT SLOPES TO SHORTEN LENGTH OF SLOPE AND ADD SOIL STABILITY.		
	BARE CHANNEL		BC	PROVIDES MEANS OF CONVEYING RUNOFF TO DESIRED LOCATION. MAY BE USED TO DRAIN DEPRESSIONAL AREAS. ONLY APPLICABLE WHEN VELOCITY OF FLOW IS VERY LOW.		
	VEGETATIVE CHANNEL		VC	PROVIDES ADDED STABILITY TO CHANNEL. USED WHEN VELOCITY OF FLOW IS VERY LOW.		
ENCLOSED DRAINAGE	LINED CHANNEL		LC	USED WHEN VEGETATION WILL NOT PROTECT THE CHANNEL AGAINST HIGH VELOCITIES OF FLOW OR WHERE VEGETATION CANNOT BE ESTABLISHED.		
	DITCH CHECKS	X	DC	PROVIDES AN ENERGY DISSIPATER ALONG A LENGTHY CHANNEL TO REDUCE VELOCITY OF STORMWATER.	X	
	STORM SEWER		ST	CAN BE USED TO CONVEY SEDIMENT LADEN WATER TO SEDIMENT BASIN OR IN CONJUNCTION WITH A WATERWAY.		
SPILLWAYS	UNDERDRAIN		UD	USED TO LOWER WATER TABLE AND INTERCEPT GROUNDWATER FOR BETTER VEGETATION GROWTH AND SOIL STABILITY. USED TO CARRY BASE FLOW IN WATERWAYS AND TO DEWATER SEDIMENT BASINS.		
	STRAIGHT PIPE SPILLWAY		SS	USED FOR RELATIVELY SMALL VERTICAL DROPS AND SMALL FLOWS OF WATER.		
	DROP INLET PIPE SPILLWAY		DS </td <td>SAME AS PIPE SPILLWAY EXCEPT LARGER FLOWS AND LARGE VERTICAL DROPS CAN BE ACCOMMODATED.</td> <td></td> <td></td>	SAME AS PIPE SPILLWAY EXCEPT LARGER FLOWS AND LARGE VERTICAL DROPS CAN BE ACCOMMODATED.		
OUTLETS	WEIR SPILLWAY		W	USED FOR RELATIVELY SMALL VERTICAL DROPS AND FLOWS MUCH GREATER THAN PIPE STRUCTURES.		
	BOX INLET WEIR SPILLWAY		BS	SAME AS WEIR SPILLWAY EXCEPT LARGER FLOWS CAN BE ACCOMMODATED BECAUSE OF LOWER WEIR LENGTH.		
	LINED APRON		LA	PROTECTS DOWNSTREAM CHANNEL FROM HIGH VELOCITY OF FLOW DISCHARGING FROM STRUCTURES.		
SEDIMENT BASINS	STONE RIP RAP		RR	USED AS AN ENERGY DISSIPATER AT OUTLET STRUCTURES TO REDUCE VELOCITIES.		
	EMBANKMENT SEDIMENT BASIN		ES	USED WHERE TOPOGRAPHY LENDS ITSELF TO CONSTRUCTING A DAM AND EARTH FILL IS AVAILABLE.		
	EXCAVATED SEDIMENT BASIN		XS	USED WHERE EMBANKMENT COULD CAUSE A HAZARD DOWNSTREAM IN CASE OF FAILURE AND WHEN EXCESS EARTH FILL IS NOT AVAILABLE.		
SEDIMENT FILTERS	COMBINATION SEDIMENT BASIN		CS	USED WHEN TOPOGRAPHY IS SUITABLE BUT ADDITIONAL CAPACITY IS NEEDED.		
	BARRIER FILTER	X	BF	USED FOR SINGLE LOTS OR DRAINAGE AREAS LESS THAN 1/2 ACRE TO FILTER SEDIMENT FROM RUNOFF.	X	
	VEGETATIVE FILTER		VF	USED ALONG DRAINAGEWAYS OR PROPERTY LINES TO FILTER SEDIMENT FROM RUNOFF. SIZE MUST BE INCREASED IN PROPORTION TO DRAINAGE AREA.		
MUD AND DUST CONTROL	FILTER BASKET		FB	USED FOR FILTERING SEDIMENT WITHIN THE ROADWAY BEFORE ENTERING THE STORM SEWER.		
	INLET PROTECTION		IP	USED FOR FILTERING SEDIMENT WITHIN GRASS AREAS BEFORE WATER ENTERS THE STORM SEWER.		
	STABILIZED CONST. ENTRANCE		SE	PREVENT MUD FROM BEING PICKED UP AND CARRIED OFF-SITE.		
	DUST AND TRAFFIC CONTROL	X	DT	PREVENTS DUST FROM LEAVING CONSTRUCTION SITE.	X	

EROSION CONTROL NOTES

All sedimentation and erosion control regulations shall be adhered to per City of Crystal Lake requirements.

All erosion control measures shall be installed prior to the start of construction.

No land disturbing activities shall not commence until approval to do so has been received by governing authorities. In addition, no land clearing or grading shall begin until all perimeter erosion and sediment control measures have been installed. (Including storm water pollution prevention per the development criteria.)

If any additional soil erosion measures are deemed necessary by the City Engineer or his representative. These measures must be immediately implemented by the contractor.

The general contractor shall strictly adhere to the storm water pollution prevention plan (SWPPP) during construction operations.

All topsoil shall be stripped prior to filling.

All exposed areas shall be seeded as specified within 14 days of final grading.

Should construction stop for longer than 14 days, the site shall be seeded as specified.

Sediment and erosion control measures shall be inspected at least once every seven (7) days and within 24 hours of a rainfall exceeding 0.5 inches during a 24-hour period. All maintenance required by inspection shall commence within 24 hours and be completed within 48 hours of report.

This plan shall not be considered all inclusive as the general contractor shall take all reasonable precautions to prevent soil sediment from leaving the site.

General contractor shall comply with all state and local ordinances that apply.

Additional erosion and sediment control measures will be installed if deemed necessary by an site inspection.

If installation of storm drainage system should be interrupted by weather or nightfall, the pipe ends shall be covered with filter fabric.

General contractor shall be responsible to take whatever means necessary to establish permanent soil stabilization.

All erosion and sediment control practices shall be maintained and repaired as needed to ensure effective performance of the required erosion control measures.

All erosion and sediment control work shall conform to the I.D.O.T. Manual for standards and procedures for erosion control.

All construction will adhere to the requirements set forth in the EPA's new construction site activities national pollutant discharge elimination system (NPDES) storm water permit.

All roadways and driveways shall be cleaned at the end of each construction day.

All disturbed areas shall be stabilized within 7 days of active disturbance.

All erosion control measures shall be disposed of within 30 days of final stabilization of the site.

Ground cover for 5:1 slopes or greater shall be established as soon as possible.

All disturbed areas to be restored w/ 6" topsoil reseed & seeding/sodding unless otherwise noted on plans.

Filter Baskets or Silt filter fabric shall be placed between frame and grate until vegetation is established. (see details)

Utilize excelsior blanket on all slopes of 5:1 or greater.

Seeding per I.D.O.T. Manual, section 251, standard specifications for road and bridge construction, (latest edition)

Class 1A type

Mulch/hydroseed method 2, procedure 3.

No dimensions shall be assumed by scaling.

No known drain tiles are present on the proposed development, if tiles are encountered during construction please notify the engineer immediately.

No part of the proposed project is located within a flood hazard 10-100yr area a flood hazard area

Excess material shall be placed at specified location unless otherwise specified by owner and approved by engineer for use of lot grading. Stockpiles shall be surrounded with filter fence and shall be seeded per I.D.O.T. Manual (latest edition) (temporary) if left more than 14 working days.

General contractor shall notify all utility companies having underground utilities on site or in right-of-way prior to excavation. Contractor shall contact utility locating company and locate all utilities prior to grading start.

PHASING NOTES:

SEQUENCE OF MAJOR ACTIVITIES

The Contractor will be responsible for implementing the following erosion control and storm water management control measures. The Contractor may designate these tasks to certain subcontractors as he sees fit, but the ultimate responsibility for implementing these controls and ensuring their proper functioning remains with the Contractor. The order of activities will be as follows (refer to the Erosion and Sediment Control Plan Sheet contained in this SWPPP for details and refer to the Suggested Phasing Plan in the design drawings for construction sequencing):

- A pre-construction meeting shall be held by the Site Project Manager and the Operator's Engineer prior to land disturbing activities.
- Install perimeter silt fences and inlet protection in the locations shown on the Erosion Control plan sheets.
- Implement erosion control measures around the existing storm sewer to prevent sedimentation from infiltrating into the storm sewer system as shown on the Erosion Control plan sheets.
- Begin clearing and grubbing operations if applicable. Clearing and grubbing shall be done only in areas where earthwork will be performed and only in areas where building is planned to commence within 7 days after clearing and grubbing.
- Disturbed areas of the site where construction activity has ceased for more than 7 days shall be temporarily seeded and watered.
- Commence site grading.
- Construct gutter inlets, area inlets, storm sewer manholes and proposed storm sewer.
- Install inlet / outlet protection around the constructed storm sewer to prevent sedimentation from infiltrating into the storm sewer system as shown on the Erosion Control plan sheets.
- Construct utilities.
- Finalize pavement subgrade preparation.
- Remove inlet protection around inlets and manholes no more than 48 hours prior to placing stabilized base course.
- Install base material as required for pavement.
- Carry out final grading and seeding, sodding and planting, including rolled erosion control products where shown on the Erosion Control plan sheets.
- Remove all fencing only after all paving is complete and exposed surfaces are stabilized.

SPECIFICATIONS & GENERAL NOTES

NOTES:

- Site Description.
 - The following is a description of the construction activity which is the subject of this specification. It is intended to be used as a guide for the contractor.
 - The proposed development consists of construction of a Fire Tower building, pavement installation, grading, and restoration. The construction activities to be performed shall include: site clearing, grubbing, mass grading, removals, pavement construction, building construction, installation of utilities, soil erosion and sedimentation control measures, as a minimum.
 - The following is a description of the intended sequence of major activities which will disturb soils for major portions of the construction site such as grading, excavation, and grading:
 - The sequence of the construction activities may be as follows:
 - See Sequence of major activities on this sheet.
 - The total area of the construction site is estimated to be **0.37 ± acres**.
 - The total area of the site that is estimated to be disturbed by excavation, grading, or other activities, is **0.37 ± acres**.
- Controls.

This section of the plan addresses the various controls that will be implemented for each of the major construction activities described in 1.a above. For each measure discussed, the contractor will be responsible for its implementation as indicated. Each such contractor should be required to certify on forms which are attached to, and are a part of, this plan.

 - Erosion and Sediment Controls.
 - (i) STABILIZATION PRACTICES: Provided below is a description of interim and permanent stabilization practices, including site-specific scheduling of the implementation of the practices. Site plans will ensure that existing vegetation is preserved where practicable and disturbed portions of the site will be stabilized. Except as provided in 2.a, (i) (A) and 2.b, stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portions of the site where construction activity will occur for a period of 21 or more calendar days.
 - When the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceases is impracticable, stabilization measures shall be initiated as soon as practicable thereafter.
 - The following interim and permanent stabilization practices, as a minimum will be implemented to stabilize the disturbed area of the site:
 - Temporary Seeding
 - Permanent seeding
 - Erosion Blanket
 - Barrier Filter
 - Dust & Traffic Control
 - (ii) STRUCTURAL PRACTICES: Provided below is a description of structural practices that will be implemented, to the degree attainable, to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. The installation of these devices may be subject to Section 404 of the Clean Water Act.
 - Vegetated drainage swales
 - Permanent seeding
 - Filter fabric
- Erosion Control. It shall be the Contractor's responsibility to provide adequate erosion control on the job site. The following erosion control sequence shall be adhered to:
 - A pre-construction meeting shall be held by the Site Project Manager and the Operator's Engineer prior to land disturbing activities.
 - Install perimeter silt fences and inlet protection in the locations shown on the Erosion Control plan sheets.
 - Implement erosion control measures around the existing storm sewer to prevent sedimentation from infiltrating into the storm sewer system as shown on the Erosion Control plan sheets.
 - Construct temporary construction exits at locations shown on the Erosion Control plan sheets.
 - Begin clearing and grubbing operations if applicable. Clearing and grubbing shall be done only in areas where earthwork will be performed and only in areas where building is planned to commence within 7 days after clearing and grubbing.
 - Disturbed areas of the site where construction activity has ceased for more than 7 days shall be temporarily seeded and watered.
 - Commence site grading.
 - Construct gutter inlets, area inlets, storm sewer manholes and proposed storm sewer.
 - Install inlet / outlet protection around the constructed storm sewer to prevent sedimentation from infiltrating into the storm sewer system as shown on the Erosion Control plan sheets.
 - Construct utilities.
 - Finalize pavement subgrade preparation.
 - Remove inlet protection around inlets and manholes no more than 48 hours prior to placing stabilized base course.
 - Install base material as required for pavement.
 - Carry out final grading and seeding, sodding and planting, including rolled erosion control products where shown on the Erosion Control plan sheets.
 - Remove all fencing only after all paving is complete and exposed surfaces are stabilized.
 - Remove temporary construction exits.

CONSTRUCTION SEQUENCE

- File stormwater NPDES permit with the EPA at least 30 days prior to beginning work.
- Install all permanent and temporary erosion control practices, i.e. diversions, vegetated swales, stabilized construction entrances, temporary silt basins, polymer seepers, and silt fences.
- City inspection and sign-off.
- Strip topsoil.
- Stabilize stockpiles with vegetative cover and additional erosion control measures.
- City inspection and sign-off.
- Begin mass grading.
- Add additional soil erosion and sediment control as needed. In particular the CISO requirement for stabilization within 14 days of temporary or permanent cessation of grading must be met and will be vigorously enforced by the City.
- Building and pavement construction.
- Permanent site stabilization.
- City inspection.

The Owner, or Owner's representative shall provide qualified personnel to inspect disturbed areas of the construction site which have not been finally stabilized. Structural control measures and location where vehicles enter or exit the site. Such inspections shall be conducted at least once every seven (7) calendar days within 24 hours of the end of a storm that is 0.5 inches or greater or equivalent snowfall.

Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of or the potential for pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant inputs to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site sediment loading.

Based on the results of the inspection, the description of potential pollutant sources identified in section 1 above and pollution prevention measures identified in section 2 above shall be revised as appropriate as soon as practicable after such inspection. Any changes to this plan resulting from the required inspections shall be implemented within 7 calendar days following the inspection.

A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of this stormwater pollution prevention plan and actions taken in accordance with section 4.b, shall be made and retained as part of the plan for at least three (3) years after the date of the inspection. The report shall be signed in accordance with Part 10.0 of the general permit.

If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Resident Engineer or Resident Technician shall complete and file an "Incidence of Noncompliance" (ION) report for the identified violation. The Resident Engineer or Resident Technician shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of noncompliance shall be signed by a responsible authority in accordance with Part 6.0 of the general permit. The report of noncompliance shall be mailed to the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Attn: Permit Section
P.O. Box 10228
Springfield, Illinois 62794-9276

- Non-Stormwater Discharges. Except for flows from the fighting activities, sources of non-stormwater that may be combined with stormwater discharges associated with the industrial activity described in this plan, are described below:
 - Water main flushing
 - Fire hydrant flushing
 - Washing for dust control
 - Irrigation drainage for vegetative growth for seeding, etc.

The pollution prevention measures, as described below, will be implemented for non-stormwater components of the discharge:

 - The fire hydrant and water main shall not be flushed directly on the exposed area of sub grade of the pavement. Hoses shall be used to direct the flow into the storm sewer system, if available.

The erosion due to irrigation of seeding shall be considered minor.

Contractor to provide the above non-stormwater discharged control to the standard specification required by the City or the approved equal.
- Monitoring and Management Plan. A three-year maintenance and monitoring plan is required after installation of native landscaping. See Project Specifications for details.

CONSTRUCTION SEQUENCE

- File stormwater NPDES permit with the EPA at least 30 days prior to beginning work.
- Install all permanent and temporary erosion control practices, i.e. diversions, vegetated swales, stabilized construction entrances, temporary silt basins, polymer seepers, and silt fences.
- City inspection and sign-off.
- Strip topsoil.
- Stabilize stockpiles with vegetative cover and additional erosion control measures.
- City inspection and sign-off.
- Begin mass grading.
- Add additional soil erosion and sediment control as needed. In particular the CISO requirement for stabilization within 14 days of temporary or permanent cessation of grading must be met and will be vigorously enforced by the City.
- Building and pavement construction.
- Permanent site stabilization.
- City inspection.

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING			A,B,C,D									
SODDING												
TEMPORARY SEEDING			E									

A (1) KENTUCKY BLUEGRASS 30 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 30 LBS/ACRE AND CREEPING RED FESCUE 20 LBS/ACRE

B (1A) BLUE GRASS 30 LBS/ACRE PERENNIAL RYEGRASS 10 LBS/ACRE DANBROOK RED FESCUE 10 LBS/ACRE SCALDIS HARD FESCUE 10 LBS/ACRE FULTS SALT GRASS 30 LBS/ACRE

C (4) ANDROPOGON GERARDI (BIG BLUE STEM) 4 LBS/ACRE ANDROPOGON SCOPARIUS (LITTLE BLUE STEM) 5 LBS/ACRE BOULEVARD CURTIPENDULA (SIDE OATS GRAMA) 5 LBS/ACRE ELI WIS CANADENSIS (IMB RYE) 1 LBS/ACRE PANDUM VIRGATUM (SWITCH GRASS) 1 LBS/ACRE SORGHASTRUM NUTANS (INDIAN GRASS) 2 LBS/ACRE ANNUAL RYE GRASS 25 LBS/ACRE DATS, SPRING 25 LBS/ACRE PERENNIAL RYE GRASS 15 LBS/ACRE

D (4B) ANNUAL RYE GRASS 250 LBS/ACRE DATS, SPRING 250 LBS/ACRE WETLAND GRASSES 6 LBS/ACRE

E SPRING OATS 100 LBS/ACRE

F WHEAT OR CEREAL RYE 150 LBS/ACRE

G SOG

H ALFALFA/SOYBEANS 100-250 LBS/ACRE (VERIFY WITH TCR)

** IRRIGATION NEEDED DURING JUNE AND JULY

() IDOT STANDARD



ARCHITECT:
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

STRUCTURAL ENGINEER:
IMEG CORP
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CIVIL ENGINEER:
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P: 815.385.1778

ELECTRICAL ENGINEER:
2010 ENGINEERING
1216 TOWER ROAD,
SCHAUMBURG, IL 60173
P: 847.882.2010

McHenry County College
 Fire Tower Replacement
 8900 Northwest Hwy #14, Crystal Lake, IL 60012
 DKA PROJECT NO: 25-028

KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
EROSION CONTROL DETAILS

SHEET NUMBER:
C-06



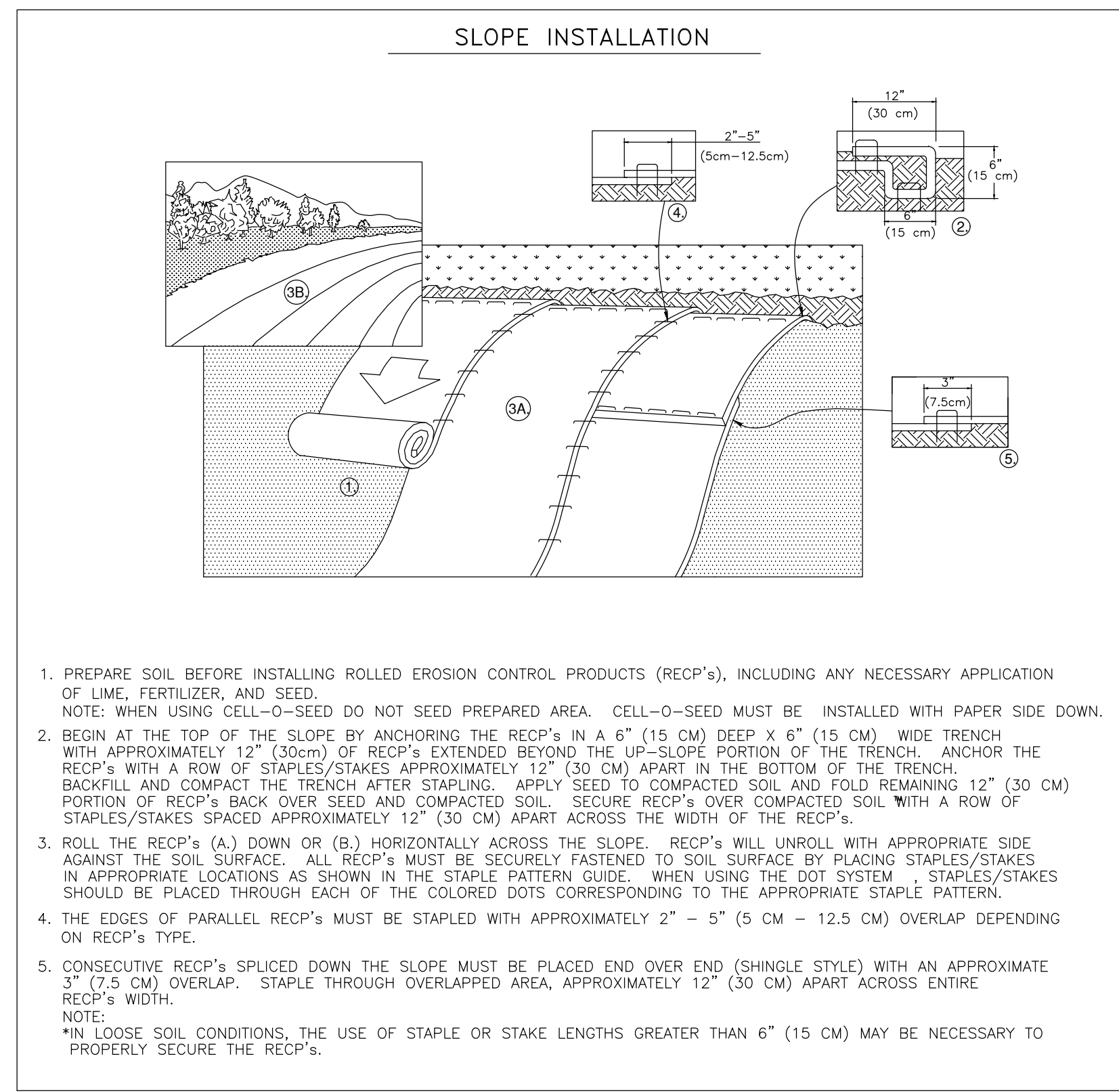
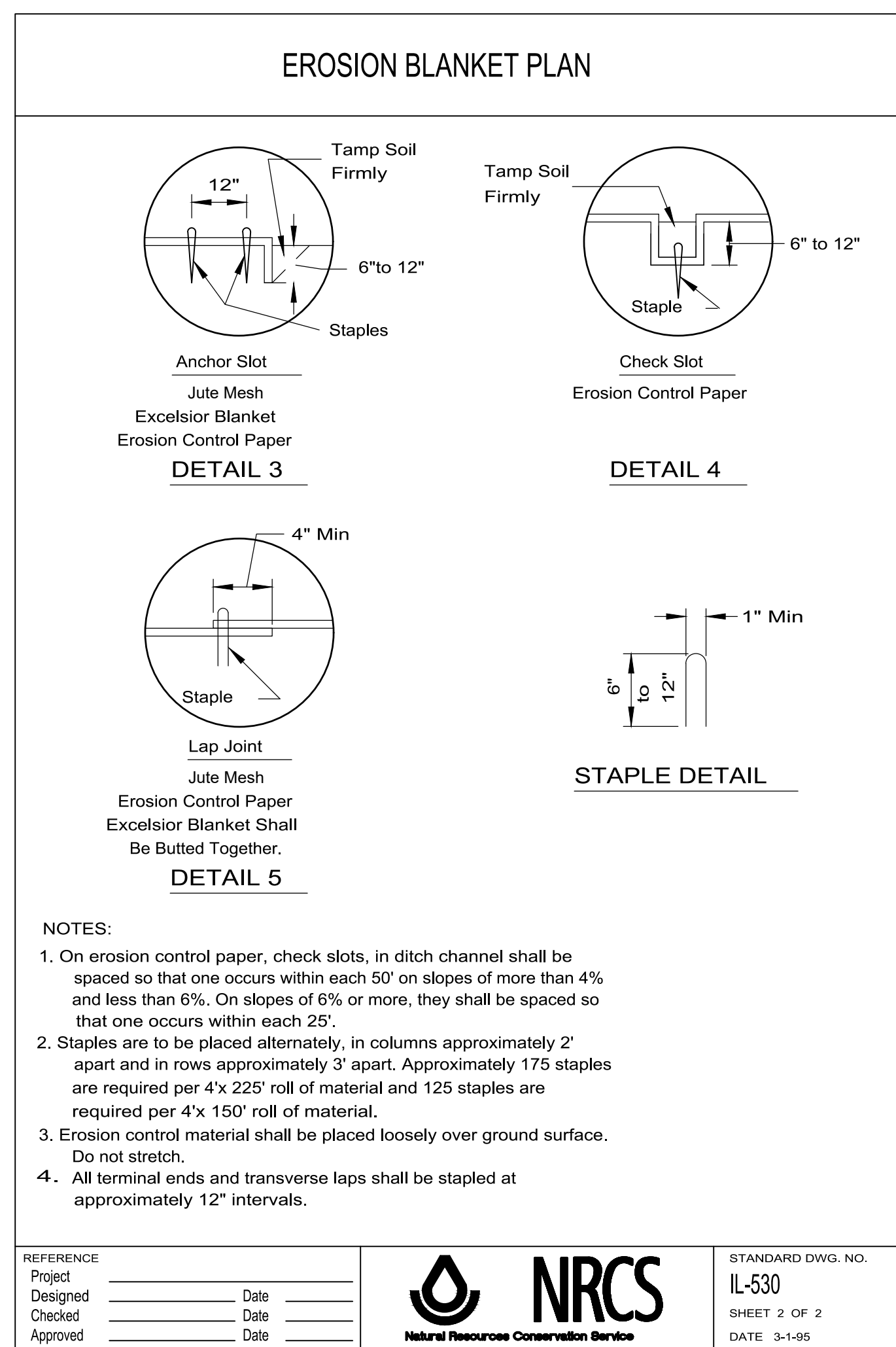
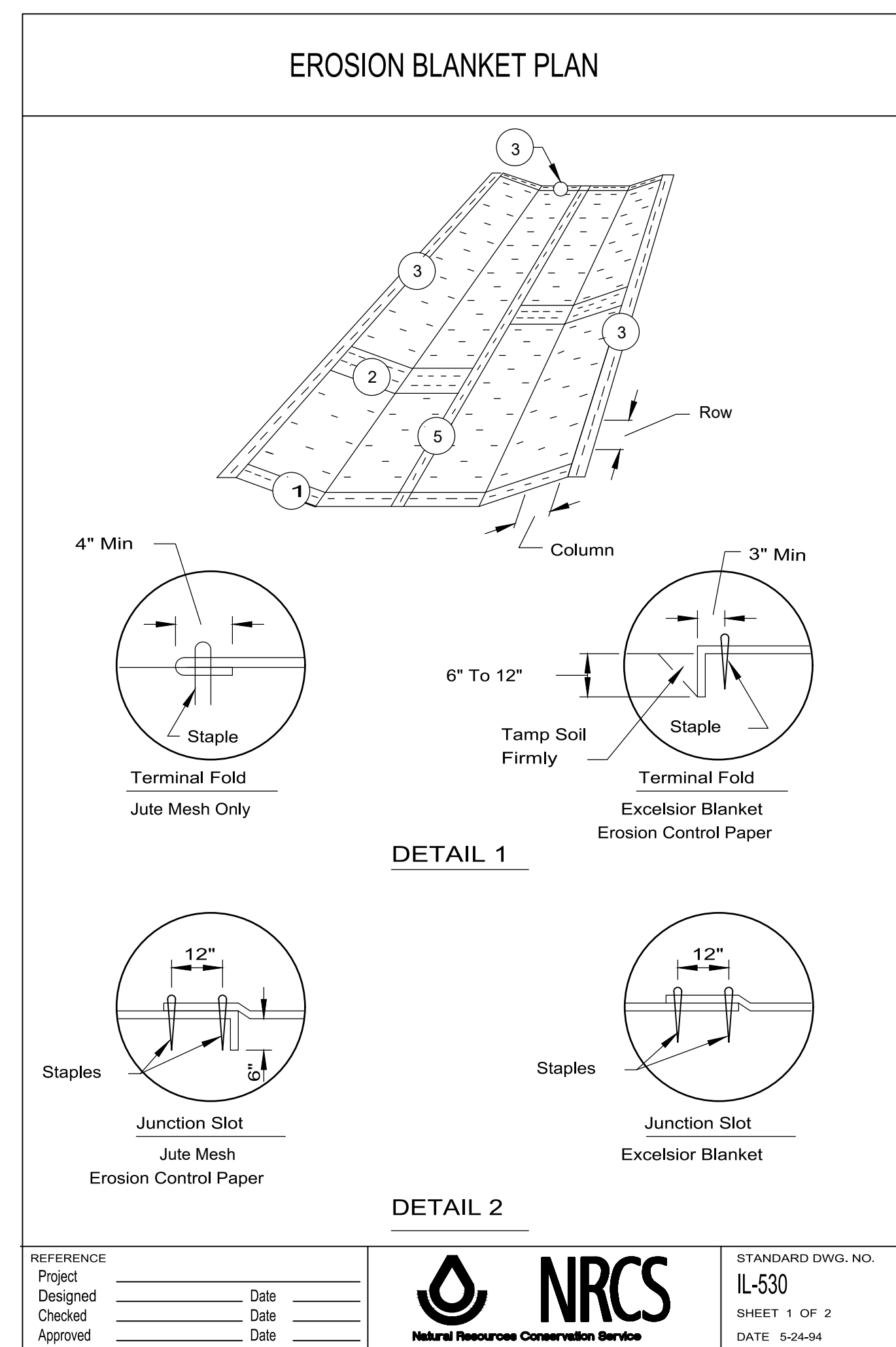
ARCHITECT:
DEMONICA KEMPER ARCHITECTS
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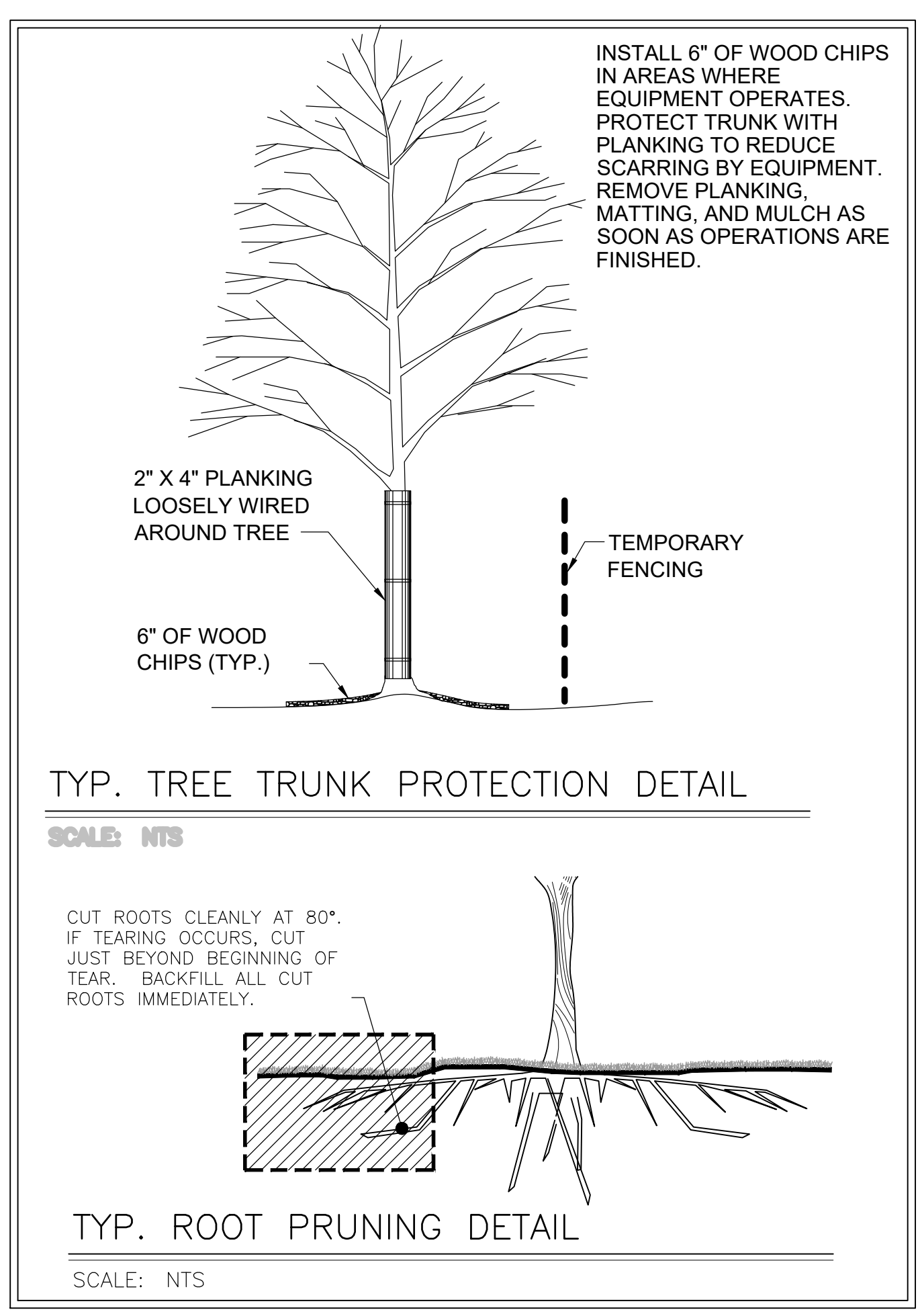
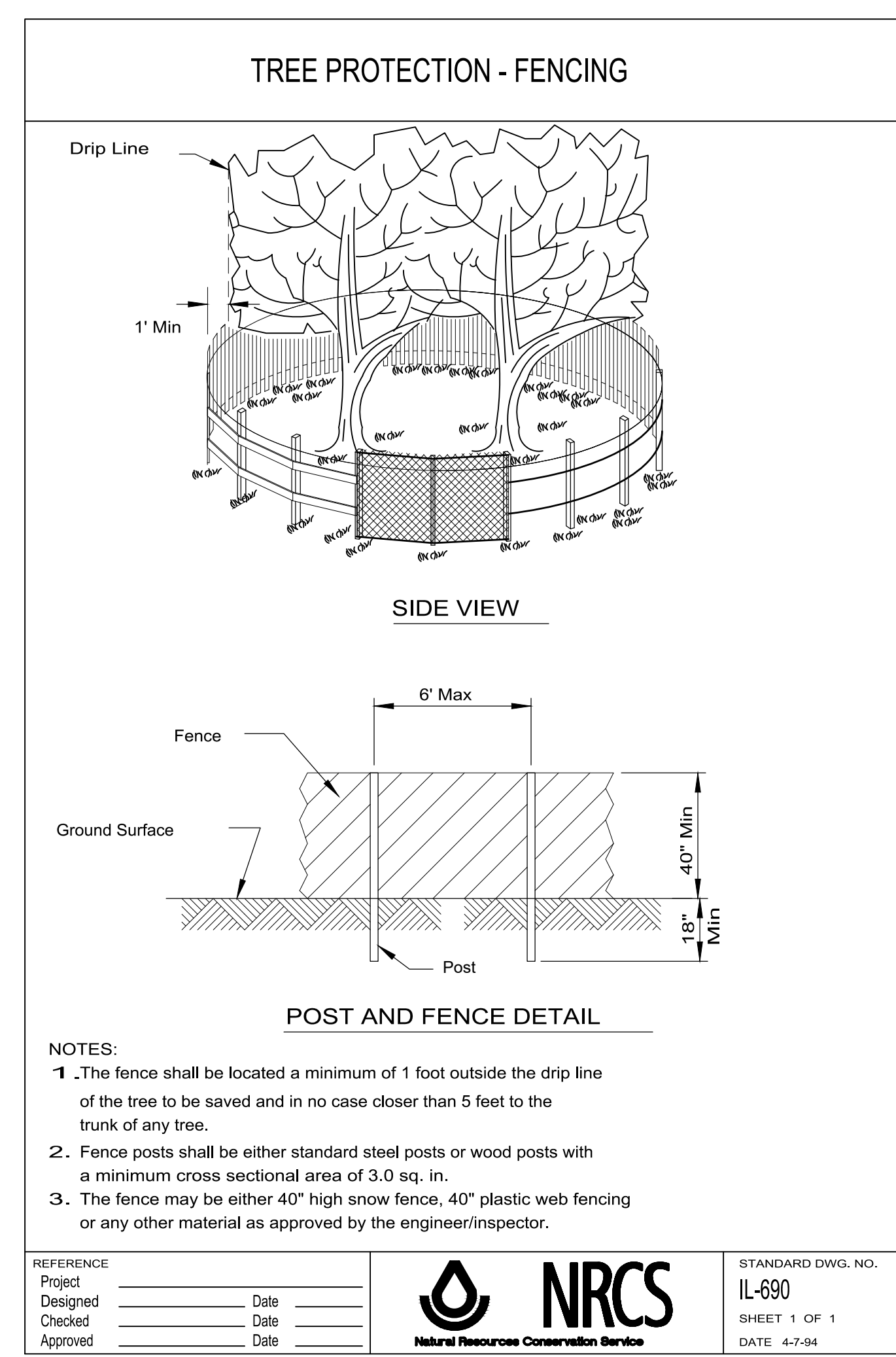
CIVIL ENGINEER:
HR GREEN
 1391 CORPORATE DRIVE, SUITE 203
 MCHENRY, IL, 60050
 P: 815.385.1778

ELECTRICAL ENGINEER:
20/10 ENGINEERING
 1216 TOWER ROAD,
 SCHAUMBURG, IL 60173
 P: 847.882.2010

McHenry County College
Fire Tower Replacement
 8900 Northwest Hwy #14, Crystal Lake, IL 60012
 DKA PROJECT NO: 25-028



- NOTES:**
1. On erosion control paper, check slots, in ditch channel shall be spaced so that one occurs within each 50' on slopes of more than 4% and less than 6%. On slopes of 6% or more, they shall be spaced so that one occurs within each 25'.
 2. Staples are to be placed alternately, in columns approximately 2' apart and in rows approximately 3' apart. Approximately 175 staples are required per 4' x 225' roll of material and 125 staples are required per 4' x 150' roll of material.
 3. Erosion control material shall be placed loosely over ground surface. Do not stretch.
 4. All terminal ends and transverse laps shall be stapled at approximately 12" intervals.



KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
EROSION CONTROL DETAILS

SHEET NUMBER:
C-08

ISSUED FOR BID - NOT FOR CONSTRUCTION

Xrefs: MCC Fire Tower_DKA-TITLEBLOCK

EXISTING 1-STORY BUILDING TO BE DEMOLISHED COMPLETE. SEE CIVIL AND STRUCTURAL FOR DETAILED DEMOLITION SCOPE.

SECTION A:
APPROX. HEIGHT: 31'-0"
APPROX. DIMENSIONS: 20'-0" x 20'-0"

SECTION B:
APPROX. HEIGHT:
LOW ROOF: 14'-0"
HIGH ROOF: 26'-0"
APPROX. DIMENSIONS: 23'-4" x 31'-4"

GENERAL BUILDING CONSTRUCTION:

FOUNDATION SYSTEM:
SHALLOW CONCRETE SPREAD FOOTINGS WITH CONCRETE FOUNDATION WALLS.

WALL SYSTEMS:
LOAD-BEARING CMU MASONRY WALLS AND INTERIOR PARTITIONS, HM DOORS AND FRAMES AND MISC. INTERIOR NON-LOAD BEARING WOOD FRAME PARTITIONS, METAL FRAMED EXTERIOR WINDOW, DOOR, AND ACCESS PANEL SYSTEMS.

FLOOR SYSTEMS:
CONCRETE SLAB ON GRADE AT FIRST FLOOR. PRE-CAST CONCRETE PLANKS AT UPPER FLOOR LEVELS.

STAIR CONSTRUCTION:
STEEL STAIRCASE, CONCRETE TREADS AND LANDINGS.

DEMOLITION FLOOR PLAN GENERAL NOTES:

1. PRIOR TO AND DURING ANY DEMOLITION THE CONTRACTOR SHALL VERIFY AND MAINTAIN THE BUILDING'S STRUCTURAL INTEGRITY.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AS REQUIRED.
3. REMOVE ALL HANGERS, SUSPENSION SYSTEMS, SUPPORT FRAMING, EQUIPMENT PADS, ANCHORS, ATTACHMENT HARDWARE AND RELATED APPURTENANCES CONNECTED WITH THE WORK TO BE DEMOLISHED. IF COMPLETE REMOVAL IS NOT POSSIBLE, CUT DEVICES AS CLOSE AS POSSIBLE TO ADJOINING SURFACES OR ORIGIN OF SUPPORT.
4. DURING THE BIDDING PERIOD, EACH BIDDING CONTRACTOR SHALL VISIT THE SITE AND THE FACILITY TO DETERMINE EXISTING CONDITIONS. CONTRACTORS FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE EFFECT OF EXISTING CONDITIONS AND THE WORK INVOLVED THEREBY SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
5. ALL MATERIALS, EQUIPMENT, FIXTURES, SYSTEMS, AND ACCESSORIES WHICH ARE TO REMAIN IN SERVICE SHALL BE CLEANED, REPAIRED, ADJUSTED AND PLACED INTO PROPER OPERATIONS IN ALL MODES WITH THE ORIGINAL SYSTEM.
6. WHEN TEMPORARY SHORING AND BRACING IS REQUIRED, CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A PROFESSIONAL ENGINEER, LICENSED TO PRACTICE IN THE STATE WHERE THE PROJECT IS LOCATED, TO DESIGN AND PREPARE DETAILED DRAWINGS.
7. CONTRACTOR SHALL COORDINATE SCHEDULE OF DEMOLITION WORK WITH THE OVERALL PHASING PLAN. ALL AREAS SURROUNDING EACH PHASE OF DEMOLITION/CONSTRUCTION WILL BE OCCUPIED BY THE OWNER DURING THE OWNER'S NORMAL BUSINESS HOURS. DEMOLITION WORK SHALL NOT ENCUMBER THE USE OF EXISTING ADJACENT SPACES.
8. EACH CONTRACTOR SHALL FOLLOW THE PROGRESS OF THE GENERAL DEMOLITION AND REMODELING WORK TO ASSURE THE ACCESSIBILITY AND SAFETY OF EQUIPMENT AND SYSTEMS IN SERVICE IN ORDER TO PROVIDE FOR THE TIMELY REMOVAL AND/OR RELOCATION OF EQUIPMENT, PIPING, ETC.
9. REMOVE ALL ABANDONED CONDUIT BOXES, CONDUCTORS, TELEPHONE LINES, ELECTRIC PANELS, AND ANY OTHER MISCELLANEOUS EQUIPMENT NOT REQUIRED.
10. REMOVE ALL RECESSED FLOOR BOXES, WALKER DUCTS, FLOOR SINKS, HUB DRAINS, ELECTRICAL RECEPTACLES, ETC. AND FILL VOIDS AS REQUIRED.
11. REMOVE ALL DOOR STOPS AT ASSOCIATED DOORS TO BE DEMOLISHED.
12. NO TOXIC SUBSTANCES HAVE BEEN NOTED ON THE SITE. SHOULD THE CONTRACTOR ENCOUNTER ANY ASBESTOS, ASBESTOS PRODUCTS, PCBs OR OTHER TOXIC SUBSTANCES, THE CONTRACTOR SHOULD REPORT THIS IMMEDIATELY TO THE OWNER IN WRITING PRIOR TO CONTINUING WORK IN THIS AREA. WORK SHALL NOT BE RESUMED EXCEPT BY WRITTEN AUTHORIZATION OR AGREEMENT.
13. ALL CONSTRUCTION DEBRIS AND EXCESS MATERIAL IS TO BE REMOVED BY THE CONTRACTOR AT THE END OF EACH WORK DAY. THE JOB SITE IS TO BE LEFT SUFFICIENTLY CLEAN AS TO WARRANT OWNER'S APPROVAL.
14. REMOVE ALL CEILING SYSTEMS IN THEIR ENTIRETY, INCLUDING TILE, GRID, SUSPENSION WIRING, ANCHORS AND ALL ASSOCIATED APPURTENANCES.
15. PATCH EXISTING PARTITION TO MATCH ADJACENT SURFACES AT REMOVAL OF EXISTING ELECTRICAL DEVICES - REFER TO ELECTRICAL DRAWINGS.

DEMOLITION FLOOR PLAN SYMBOLS LEGEND:

HATCH DENOTES FOOTPRINT OF BUILDING TO BE DEMOLISHED

DEMOLITION FLOOR PLAN REFERENCED NOTES:

1. EXISTING 1-STORY FIRE TOWER TO BE DEMOLISHED COMPLETE. REFER TO CIVIL AND STRUCT. FOR FOUNDATION AND STRUCTURAL DEMOLITION EXTENTS AND SCOPE.
2. EXISTING FIRE HYDRANT TO REMAIN. SEE CIVIL.
3. ACCESSORY WOOD FRAME STRUCTURE TO BE DEMOLISHED COMPLETE. SEE CIVIL.
4. EXISTING GRAVEL LANDSCAPING. SEE CIVIL.
5. EXISTING UTILITY POLE. REFER TO CIVIL.

FLOOR PLAN SYMBOLS LEGEND:

NOTES:
1. GRAYTONE LINEWORK DENOTES EXISTING CONSTRUCTION TO REMAIN.
2. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND TECHNOLOGY SYSTEMS.

ELEVATION VIEW CALLOUT

STRUCTURAL GRIDLINE. SEE STRUC. FOR FOUNDATION LAYOUT, DETAILS AND GENERAL SCOPE.

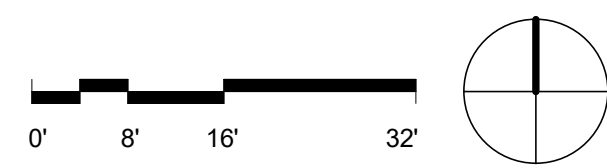
FLOOR PLAN GENERAL NOTES:

1. REFER TO CIVIL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. DURING THE BID PERIOD, EACH BIDDING CONTRACTOR SHALL VISIT THE PROJECT TO REVIEW EXISTING CONDITIONS. CONTRACTOR'S FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE NATURE OF EXISTING CONDITIONS AND THE WORK THEREBY INVOLVED SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION.
3. CONTRACTOR SHALL VERIFY AND MAINTAIN THE BUILDING'S STRUCTURAL INTEGRITY DURING THE ENTIRE PROJECT DURATION.
4. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO COMMENCING WORK.
5. PROVIDE ALL DEMOLITION, TEMPORARY REMOVAL, AND REINSTALLATION AND REPAIR REQUIRED TO INSTALL NEW WORK.
6. DO NOT SCALE DRAWINGS.
7. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.

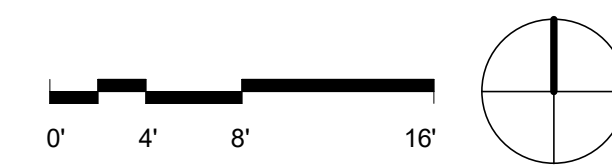
FLOOR PLAN REFERENCED NOTES:

- REFER TO CIVIL, ELECTRICAL, AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
1. REFER TO CIVIL FOR PROP. BUILDING LOCATION ON SITE. SHOWN ON ARCHITECTURAL PLAN FOR REFERENCE ONLY.
 2. NEW CONCRETE PAVEMENT. SEE CIVIL.
 3. PROPOSED PROP. BUILDING / FUTURE MAZE BUILDING BY OTHERS. SEE CIVIL AND STRUCT. FOR WORK INCLUDED IN PROJECT SCOPE.
 4. EXTERIOR STAIRCASE. SEE DRAWINGS BY OTHERS.
 5. STRUCTURAL DRILLED PIER. SEE STRUC.
 6. SLOPED CONCRETE SLAB. SEE CIVIL AND COORDINATE EXACT LOCATION WITH FIRE TOWER (BY OTHERS)

1 DEMOLITION SITE PLAN
1/8" = 1'-0"



2 NEW WORK SITE PLAN
1/8" = 1'-0"



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ELECTRICAL ENGINEER:
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1216 TOWER ROAD,
SCHAUMBURG, IL 60173
P: 847.882.2010

McHenry County College
Fire Tower Replacement
8900 Northwest Hwy #14, Crystal Lake, IL 60012
DKA PROJECT NO: 25-028

KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
DEMOLITION & NEW WORK SITE PLANS

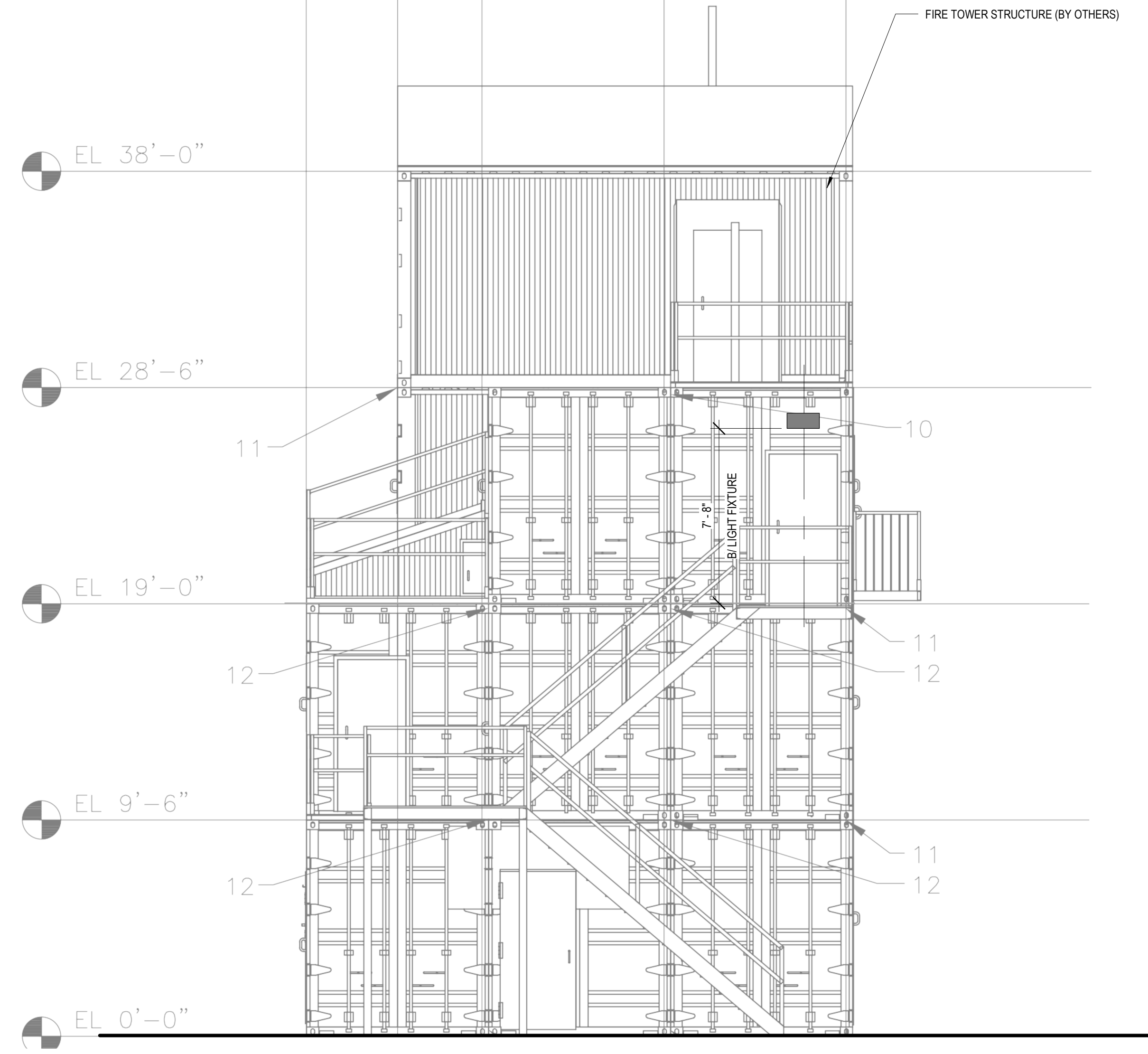
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A1.10

1 2 3 4 5 6

E D C B A

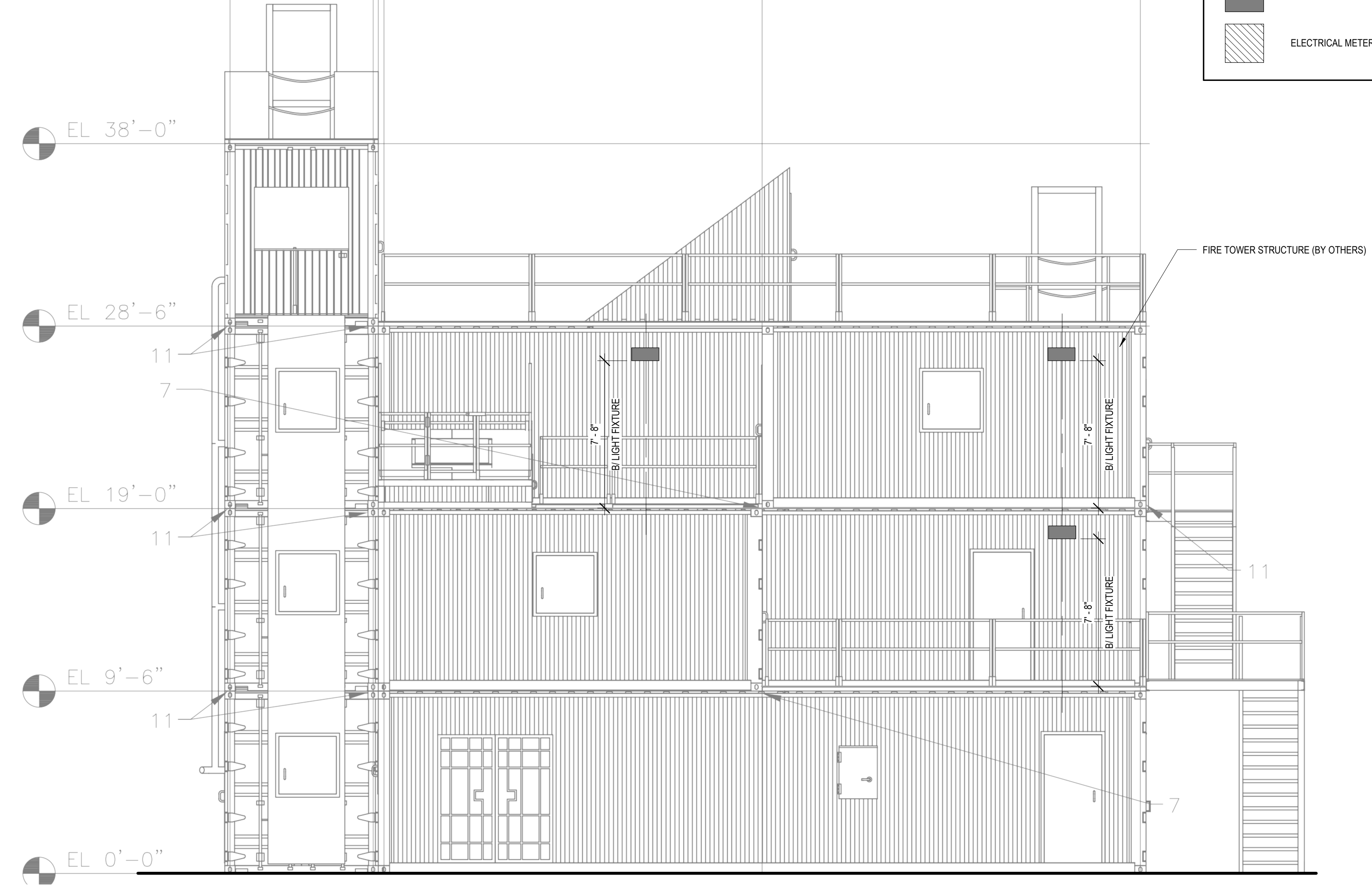
4'-0 1/2" 3'-8 1/2" 8'-0" 8'-0"



1 NORTH ELEVATION
1/4" = 1'-0"

1 2 3 4 5 6

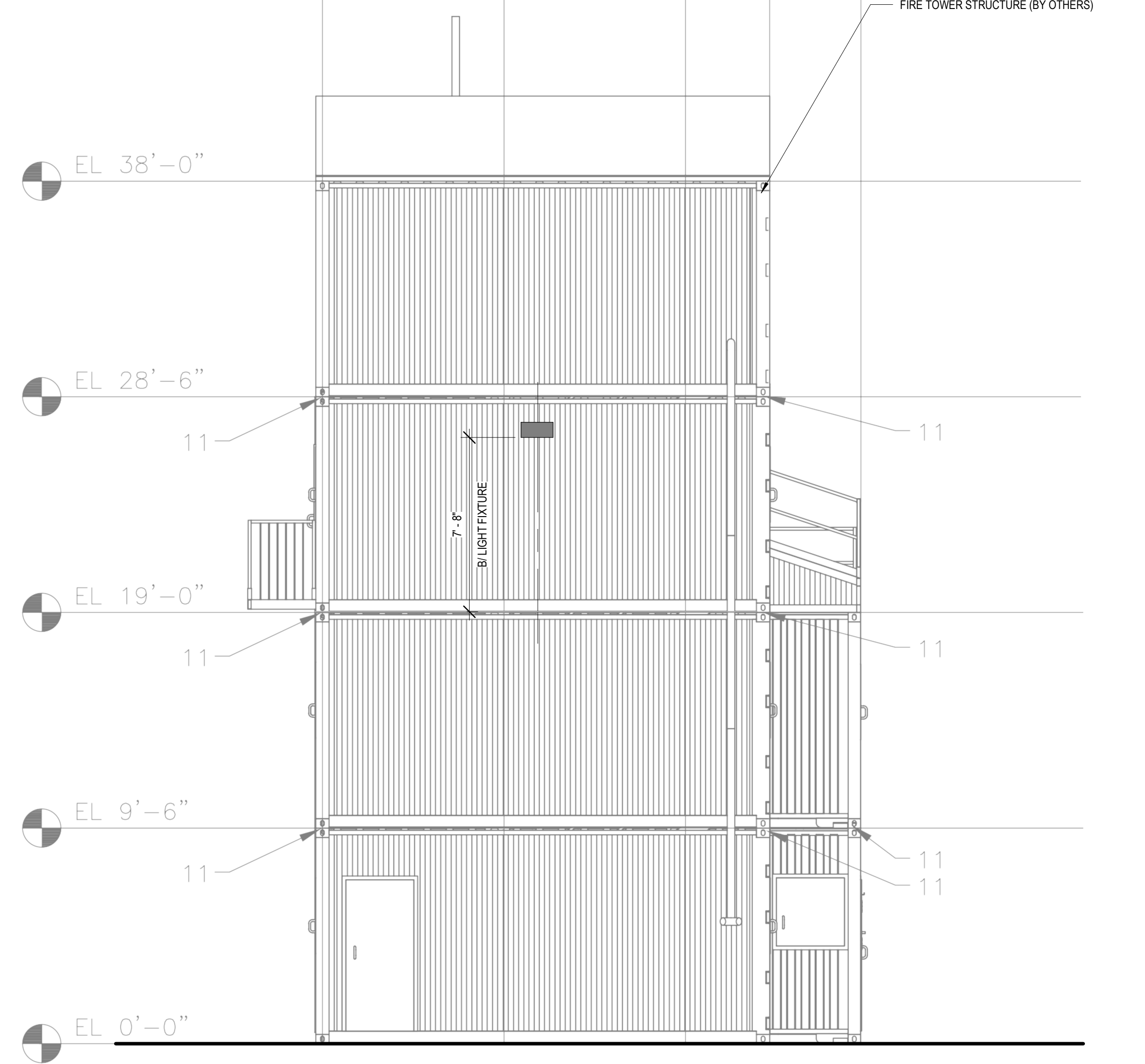
7'-5 1/2" 0'-3 1/4" 0'-3 1/2" 19'-8 1/2" 19'-8 1/2"



2 EAST ELEVATION
1/4" = 1'-0"

A B C D E

8'-0" 8'-0" 3'-8 1/2" 4'-0 1/2"



4 SOUTH ELEVATION
1/4" = 1'-0"

EXTERIOR ELEVATION SYMBOLS LEGEND:

- GENERAL ELEVATION NOTES
- FIRE TOWER STRUCTURE IS PROVIDED AND INSTALLED BY OTHERS. ELECTRICAL CONTRACTOR WILL FIELD VERIFY FINAL LAYOUTS WITH FIRE TOWER CONTRACTOR PRIOR TO INSTALLATION.
 - CONFIRM ALL LOCATIONS OF LIGHTS WITH OWNER PRIOR TO INSTALLATION.
- EXTERIOR LIGHTING FIXTURE. SEE ELEC.
 - ELECTRICAL METER. SEE ELEC.



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McHenry County College
Fire Tower Replacement
8900 Northwest Hwy #14, Crystal Lake, IL 60012
DKA PROJECT NO: 25-028

KEY PLAN:

SHEET STATUS: 04/21/2026
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NO.	DESCRIPTION	DATE

SHEET TITLE:
EXTERIOR ELEVATIONS

SHEET NUMBER:
A4.00

GENERAL FOUNDATION SHEET NOTES:
 1. TOP OF PIER ELEVATION OF (929.57') BASED ON CIVIL DRAWINGS. COORDINATE WITH CIVIL DRAWINGS.
 2. SEE GENERAL NOTES SECTIONS FOR ADDITIONAL INFORMATION.
 3. CONTRACTOR VERIFY ALL DIMENSIONS WITH ARCH DRAWINGS.



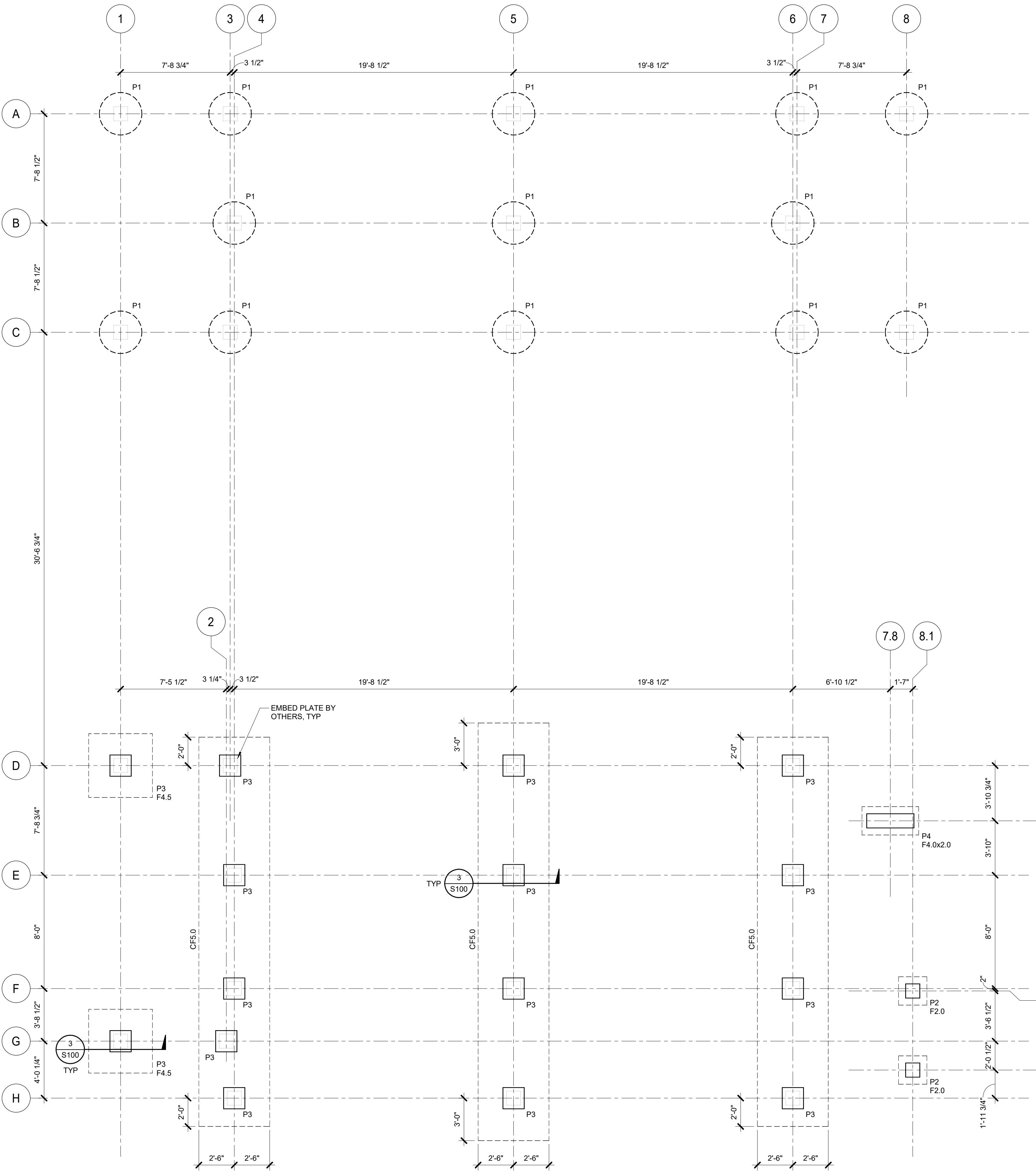
ARCHITECT:
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STRUCTURAL ENGINEER:
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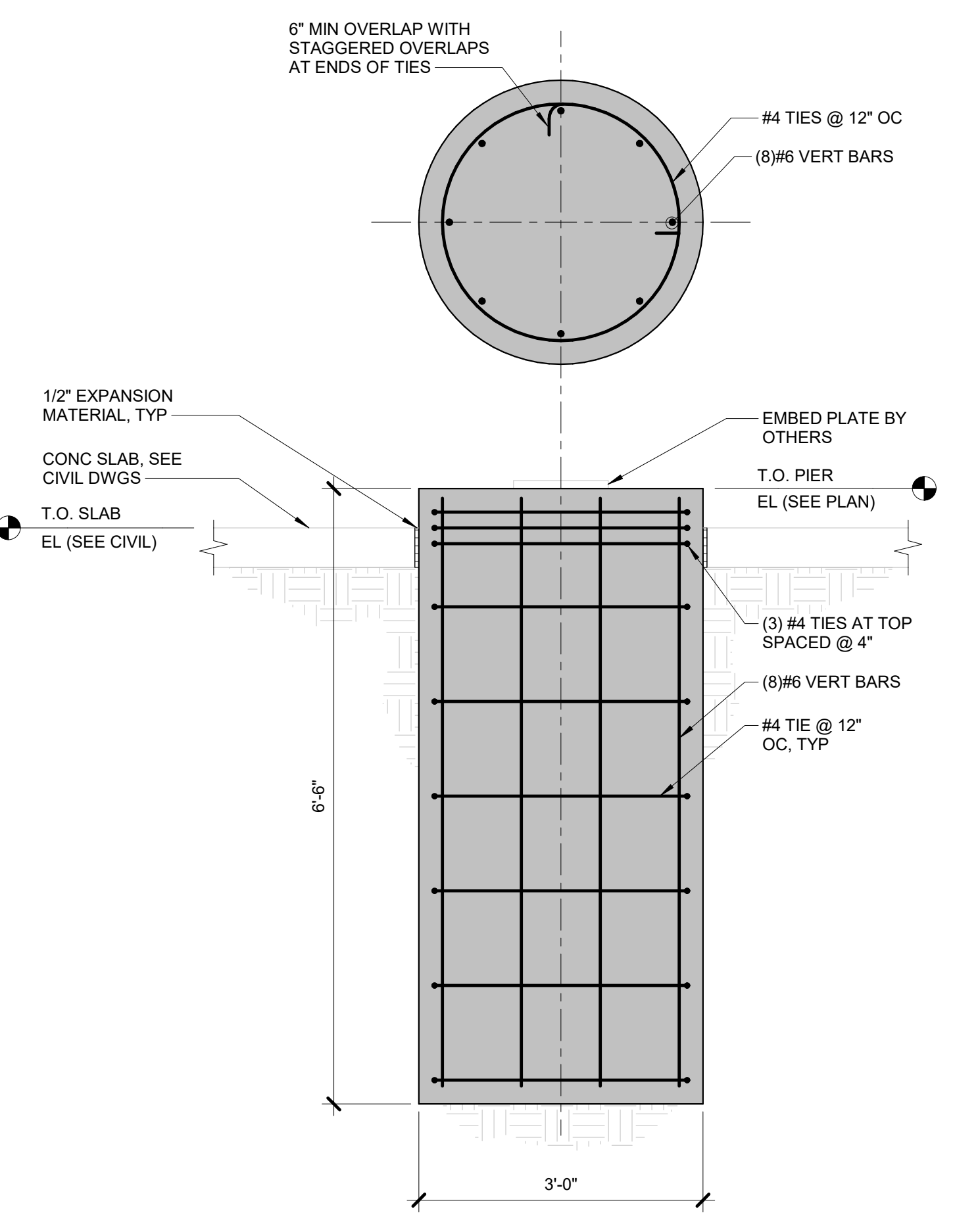
CIVIL ENGINEER:
HR GREEN
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 MCHENRY, IL, 60050
 P: 815.385.1778

ELECTRICAL ENGINEER:
20/10 ENGINEERING
 1216 TOWER ROAD,
 SCHAUMBURG, IL 60173
 P: 847.882.2010

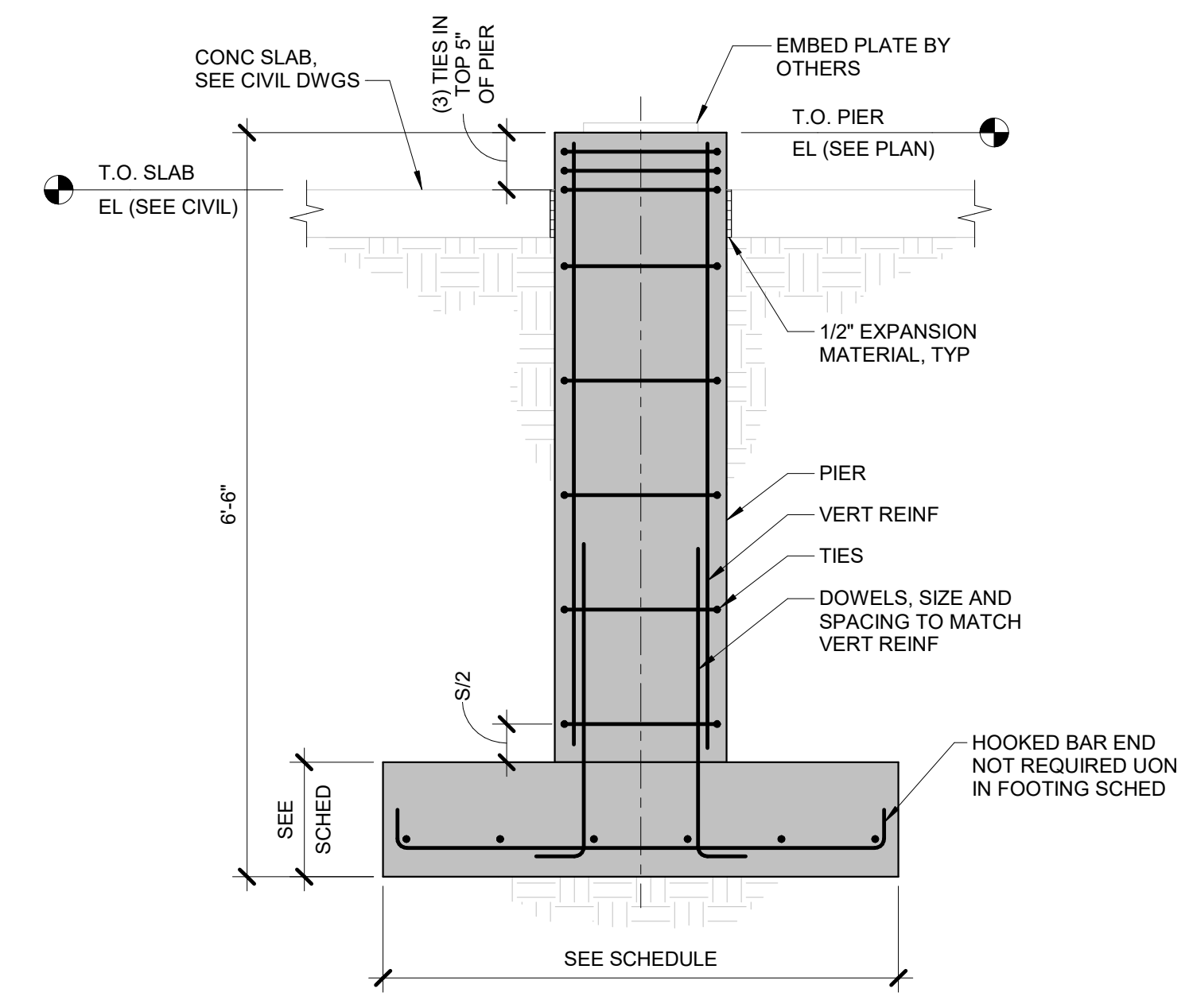
McHenry County College
Fire Tower Replacement
 8900 Northwest Hwy #14, Crystal Lake, IL 60012
 DKA PROJECT NO: 25-028



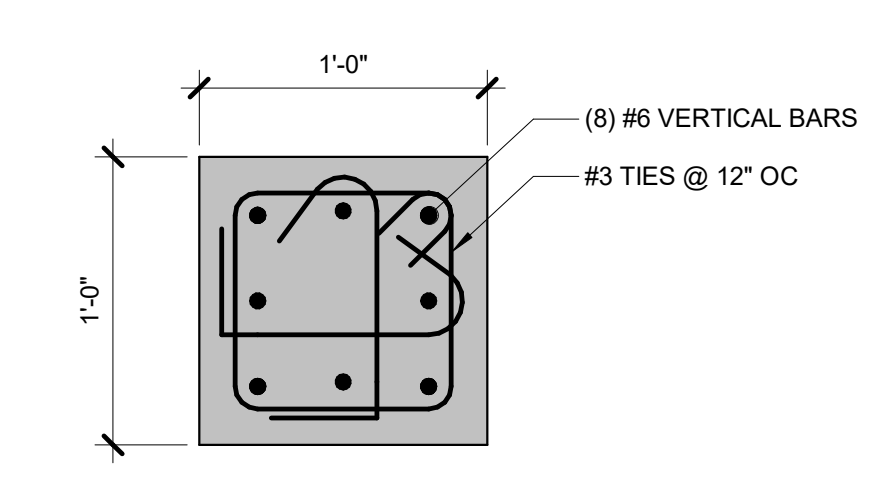
1 FOUNDATION PLAN
 1/4" = 1'-0"



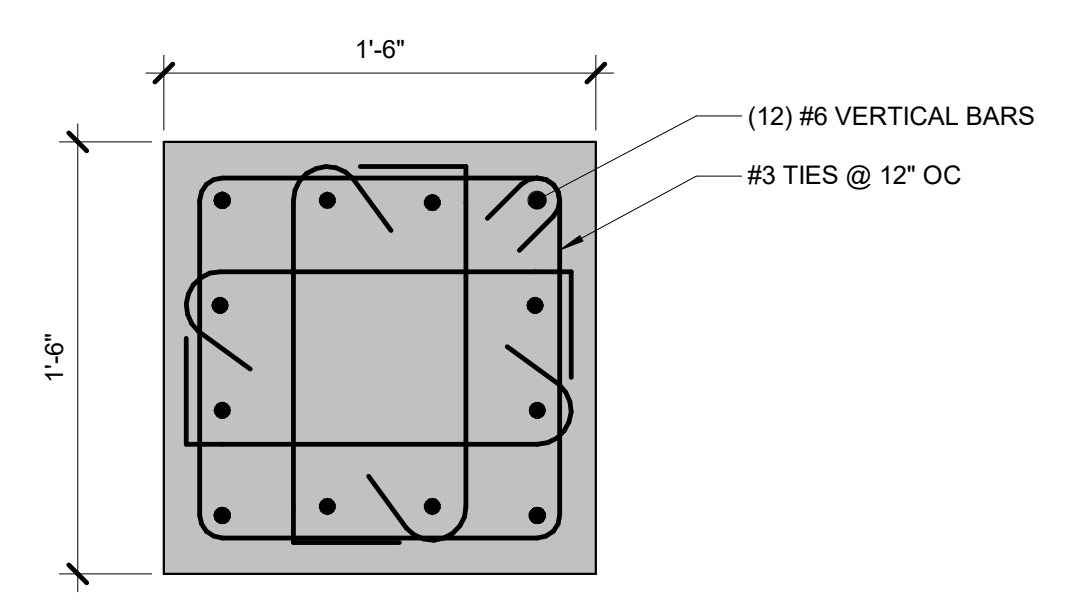
2 DRILLED PIER (P1)
 3/4" = 1'-0"



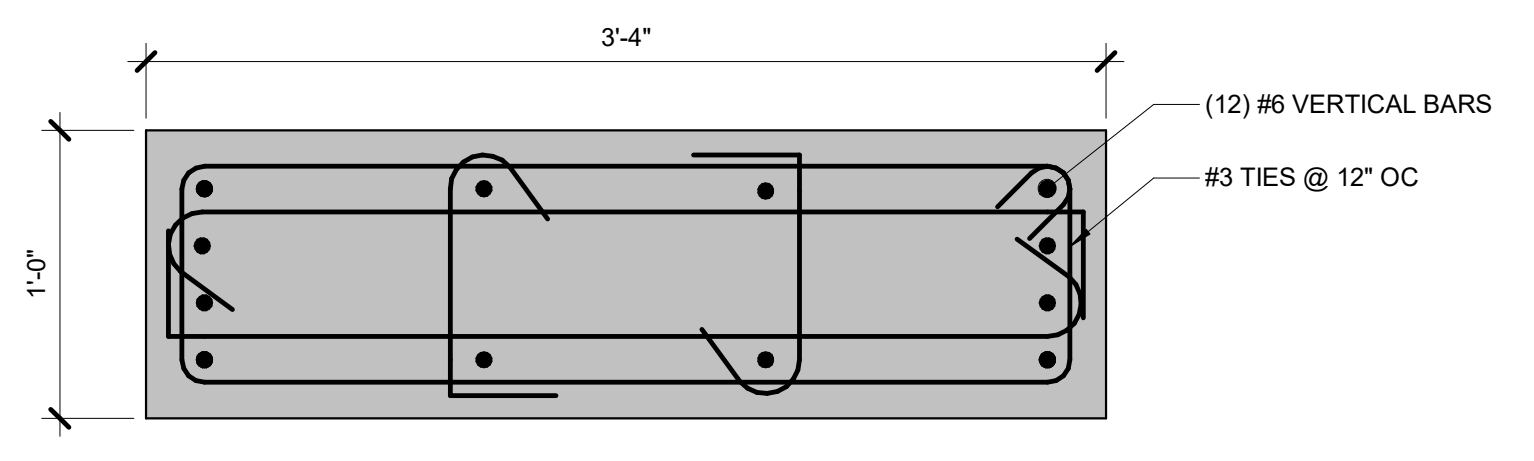
3 SPREAD/CONTINUOUS FOOTING WITH PIER
 3/4" = 1'-0"



4 PIER (P2)
 1 1/2" = 1'-0"



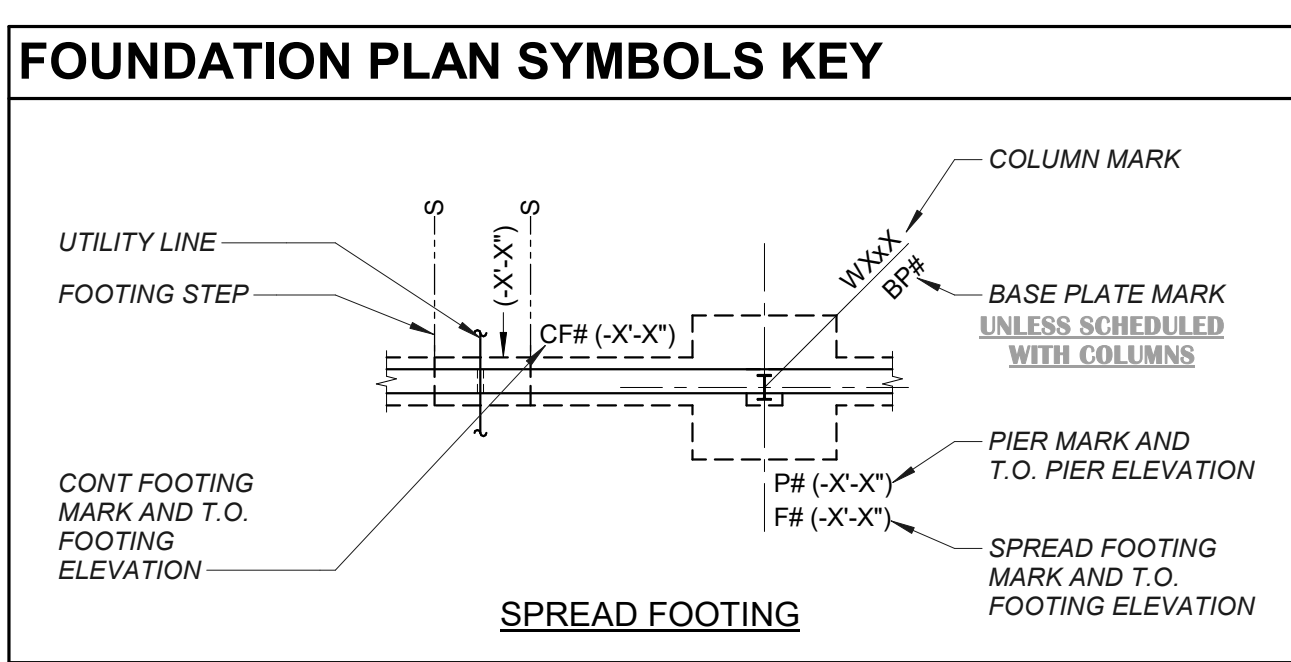
5 PIER (P3)
 1 1/2" = 1'-0"



6 PIER (P4)
 1 1/2" = 1'-0"

SPREAD FOOTING SCHEDULE					
MARK	LENGTH	WIDTH	DEPTH	REINFORCEMENT (EW BOT, UON)	REMARKS
F2.0	2'-0"	2'-0"	1'-0"	(3)#6	
F4.0x2.0	4'-0"	2'-0"	1'-0"	(4)#6 SHORT, (3)#6 LONG	
F4.5	4'-6"	4'-6"	1'-0"	(9)#6	

CONTINUOUS FOOTING SCHEDULE					
MARK	WIDTH	DEPTH	REINFORCEMENT (BOT, UON)		REMARKS
			LONG	SHORT	
CF5.0	5'-0"	1'-0"	(6)#6	#6 @ 12" OC	



IMEG 263 SHUMAN BOULEVARD
 SUITE 550
 NAPERVILLE, IL 60563
 P: 630.527.2320

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 Meck Design Firm Registration #184026973-0014

REF. SCALE IN INCHES: 1" = 1'-0"

KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
FOUNDATION PLAN AND DETAILS

SHEET NUMBER:
S100



ARCHITECT:
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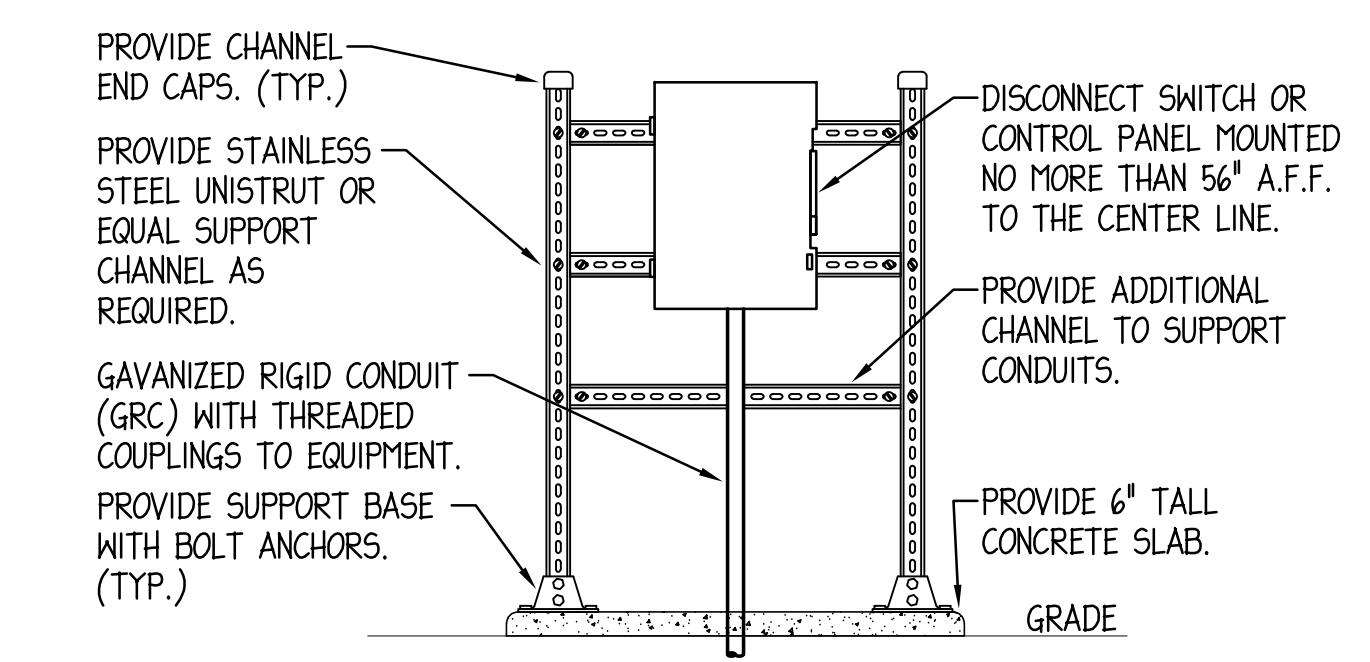
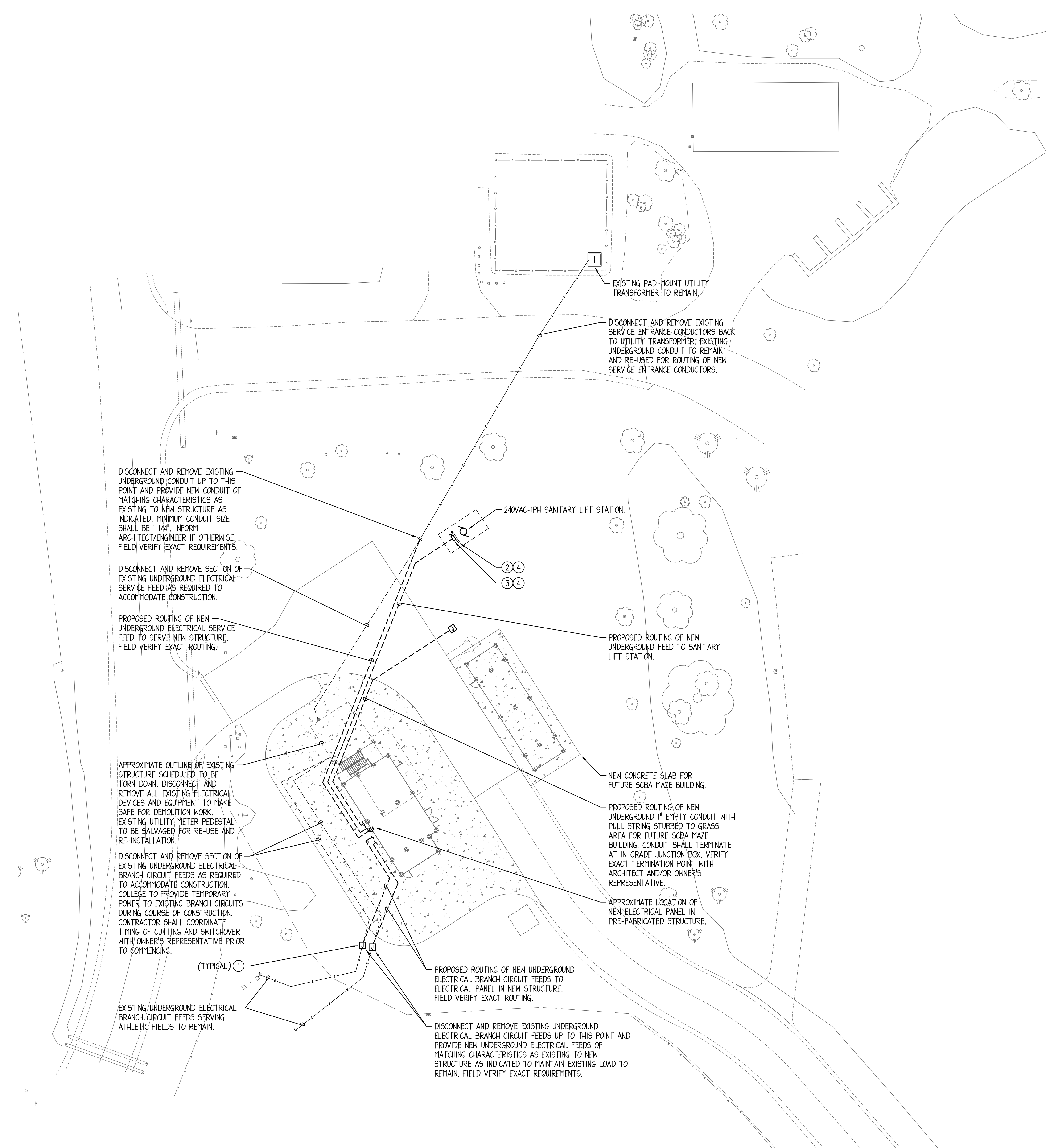
STRUCTURAL ENGINEER:
 IMEG CORP
 263 SHUMAN BLVD, SUITE 550
 NAPERVILLE, IL, 60563
 P: 630.527.2320

CIVIL ENGINEER:
 HR GREEN
 1391 CORPORATE DRIVE, SUITE 203
 MCHENRY, IL, 60050
 P: 815.385.1778

ELECTRICAL ENGINEER:
 2010 ENGINEERING
 1216 TOWER ROAD,
 SCHAMBURG, IL 60173
 P: 847.882.2010

DRAWING NOTES: (TYPICAL FOR THIS DRAWING ONLY.)

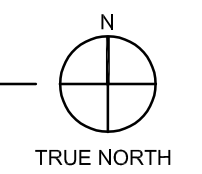
- ① PROVIDE 12"L X 12"W X 12"D UL LISTED, POLYMER CONCRETE, OPEN BOTTOM, IN-GRADE JUNCTION BOX AS MANUFACTURED BY HUBBELL QUAZITE #PC1212EBA2 OR APPROVED EQUAL. INCLUDE GASKETED COVER WITH "ELECTRIC" LOGO AND STAINLESS STEEL TAMPER PROOF FASTENERS TO SECURE COVER TO BOX. LOCATE JUNCTION BOX IN GRASS AREA. FIELD VERIFY EXACT LOCATION.
- ② 240VAC-1PH LIFT STATION CONTROL PANEL, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. PROVIDE PROPERLY SIZED AND SEALED UNDERGROUND CONDUITS FROM THE CONTROL PANEL DOWN TO PUMP BASIN - SIZED FOR PUMP POWER CORDS, SENSOR CORDS, AND FLOAT SWITCH CORDS. ALL FINAL WIRE TERMINATIONS FROM THE PUMPS AND FLOATS TO THE CONTROL PANEL SHALL BE DONE BY THE CONTRACTOR. COORDINATE INSTALLATION WITH OTHER TRADES.
- ③ PROVIDE 240VAC, 2-POLE, 30AMP RATED HEAVY DUTY NON-FUSIBLE DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. FIELD COORDINATE EXACT LOCATION TO MAINTAIN 3-FOOT WORKING SPACE IN FRONT OF ELECTRICAL EQUIPMENT.
- ④ EQUIPMENT SHALL BE MOUNTED ON UNISTRUT STAINLESS-STEEL FRAMING SYSTEM ON 6" TALL CONCRETE SLAB. REFER TO DETAIL ON THIS SHEET FOR ADDITIONAL INFORMATION.



FREE-STANDING EQUIPMENT DETAIL
 NO SCALE

NOTES:
 1. INCLUDE BRACING HARDWARE FOR STABILITY WHERE REQUIRED.

1 SITE ELECTRICAL PLAN
 1" = 20'-0"



McHenry County College
Fire Tower Replacement
 8900 Northwest Hwy #14, Crystal Lake, IL 60012
 DKA PROJECT NO: 25-028

KEY PLAN:

SHEET STATUS: 04/21/2026

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NO.	DESCRIPTION:	DATE:

SHEET TITLE:
SITE ELECTRICAL PLAN

SHEET NUMBER:

E1.00



ARCHITECT:
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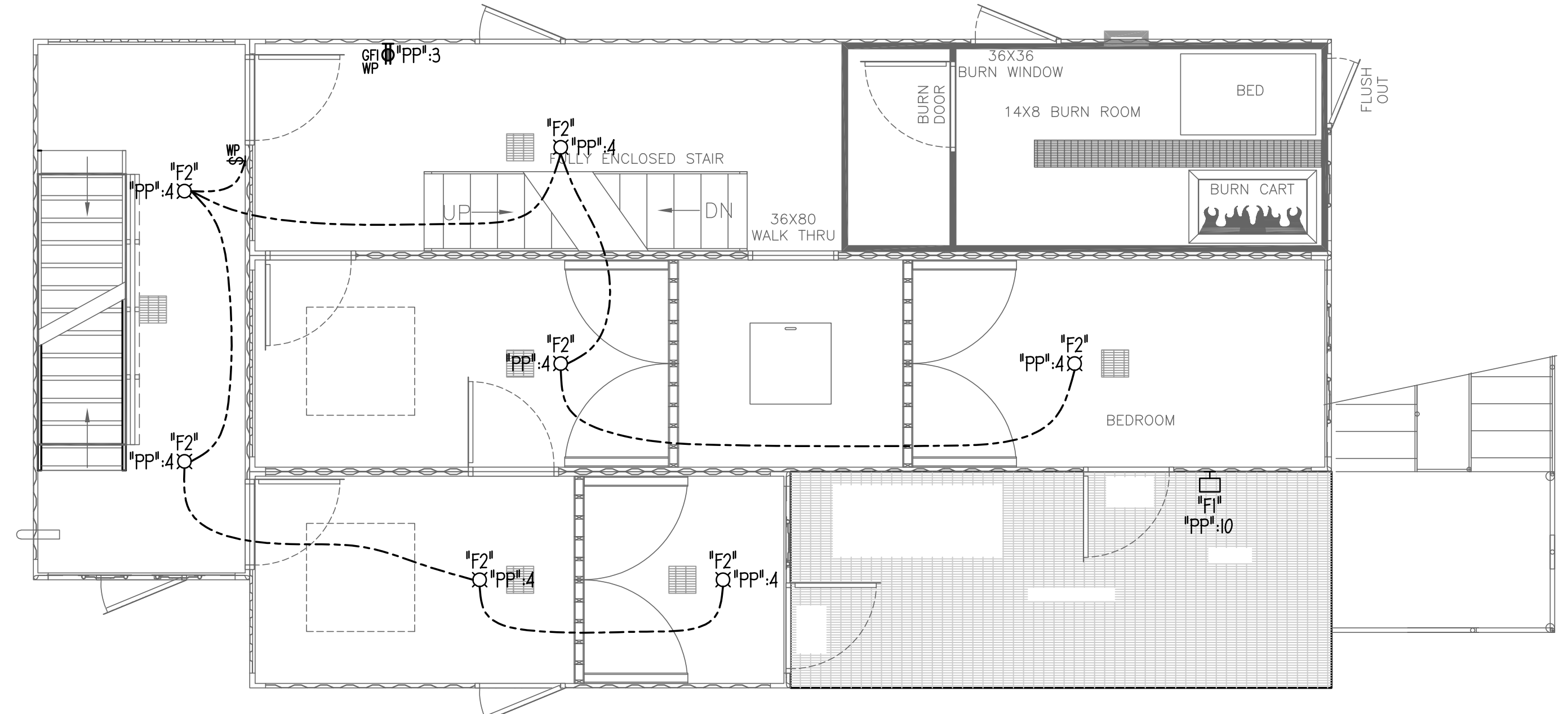
STRUCTURAL ENGINEER:
 IMEG CORP
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CIVIL ENGINEER:
 HR GREEN
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 P: 815.385.1778

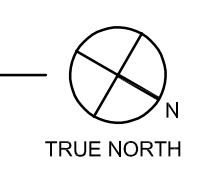
ELECTRICAL ENGINEER:
 2010 ENGINEERING
 1216 TOWER ROAD,
 SCHAUMBURG, IL 60173
 P: 847.882.2010

DRAWING NOTES: (TYPICAL FOR THIS DRAWING ONLY.)

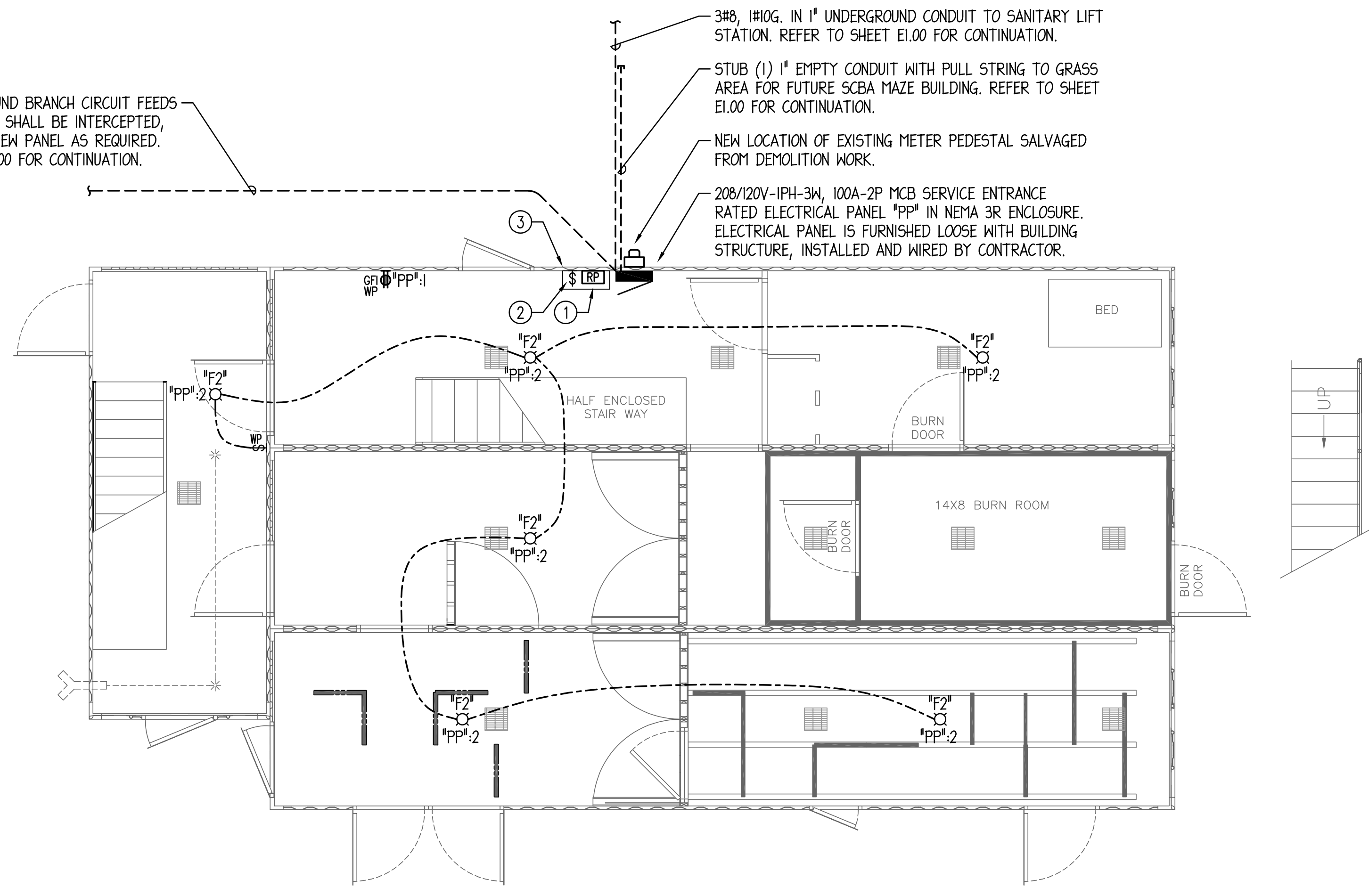
- 1 PROVIDE RELAY PANEL WITH (4) RELAYS TO CONTROL EXTERIOR LIGHTING CIRCUITS. RELAY PANEL SHALL BE ACUITY N LIGHT #ARP-INTENC08-NLT-BFCR-1VOLT-1VB-HLK-SY-DTC OR APPROVED EQUAL WITH #ARPA-APS-OL PHOTOSENSOR. LOCATE PHOTOSENSOR ON ROOF FACING NORTH. COORDINATE FINAL PHOTOSENSOR LOCATION WITH ARCHITECT.
- 2 PROVIDE ON/OFF OVERRIDE SWITCH TO CONTROL EXTERIOR LIGHTING BRANCH CIRCUIT AS MANUFACTURED BY ACUITY N LIGHT #POD1A-WH OR APPROVED EQUAL.
- 3 RELAY PANEL AND LOW VOLTAGE CONTROL SWITCH SHALL BE MOUNTED INSIDE A NEMA 3R, GASKETED METAL ENCLOSURE WITH HINGED COVER AND PADLOCK PULL CATCH LATCHES AS MANUFACTURED BY HVENT HOFFMAN OR EQUAL. EXACT ENCLOSURE SIZE TO BE DETERMINED BY CONTRACTOR.



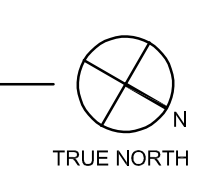
2 SECOND FLOOR ELECTRICAL PLAN
 1/4" = 1'-0"



EXISTING UNDERGROUND BRANCH CIRCUIT FEEDS TO ATHLETIC FIELDS SHALL BE INTERCEPTED, AND EXTENDED TO NEW PANEL AS REQUIRED. REFER TO SHEET E1.00 FOR CONTINUATION.



1 FIRST FLOOR ELECTRICAL PLAN
 1/4" = 1'-0"



- 3#8, 1#10G. IN 1" UNDERGROUND CONDUIT TO SANITARY LIFT STATION. REFER TO SHEET E1.00 FOR CONTINUATION.
- STUB (1) 1" EMPTY CONDUIT WITH PULL STRING TO GRASS AREA FOR FUTURE SCBA MAZE BUILDING. REFER TO SHEET E1.00 FOR CONTINUATION.
- NEW LOCATION OF EXISTING METER PEDESTAL SALVAGED FROM DEMOLITION WORK.
- 208/120V-1PH-3W, 100A-2P MCB SERVICE ENTRANCE RATED ELECTRICAL PANEL "PP" IN NEMA 3R ENCLOSURE. ELECTRICAL PANEL IS FURNISHED LOOSE WITH BUILDING STRUCTURE, INSTALLED AND WIRED BY CONTRACTOR.

McHenry County College
Fire Tower Replacement
 8900 Northwest Hwy #14, Crystal Lake, IL 60012
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KEY PLAN:

SHEET STATUS: 04/21/2026
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NO.	DESCRIPTION:	DATE:

SHEET TITLE:
ELECTRICAL PLANS

SHEET NUMBER:
E1.10

- GENERAL NOTES:**
1. CONDUCTORS SHALL BE ROUTED IN GALVANIZED RIGID CONDUIT (GRC) WITH THREADED CONNECTIONS THAT IS SUITABLE FOR USE IN WET LOCATIONS.
 2. CONDUIT CLAMPS, HANGERS, BRACKETS, SUPPORT CHANNELS SHALL BE GALVANIZED THAT IS SUITABLE FOR USE IN WET LOCATIONS.
 3. JUNCTION BOXES SHALL BE DIE-CAST ALUMINUM WITH THREADED KNOCKOUTS THAT IS SUITABLE FOR USE IN WET LOCATIONS.
 4. PVC MATERIAL FOR CONDUITS AND JUNCTION BOXES WILL NOT BE PERMITTED.
 5. EXPOSED CONDUITS SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO WALLS AND CEILING FOR NEATNESS AND APPEARANCE. CONTRACTOR SHALL COORDINATE EXACT ROUTING AND INSTALLATION REQUIREMENTS IN FIELD WITH PRE-FABRICATED STRUCTURE SUPPLIER.

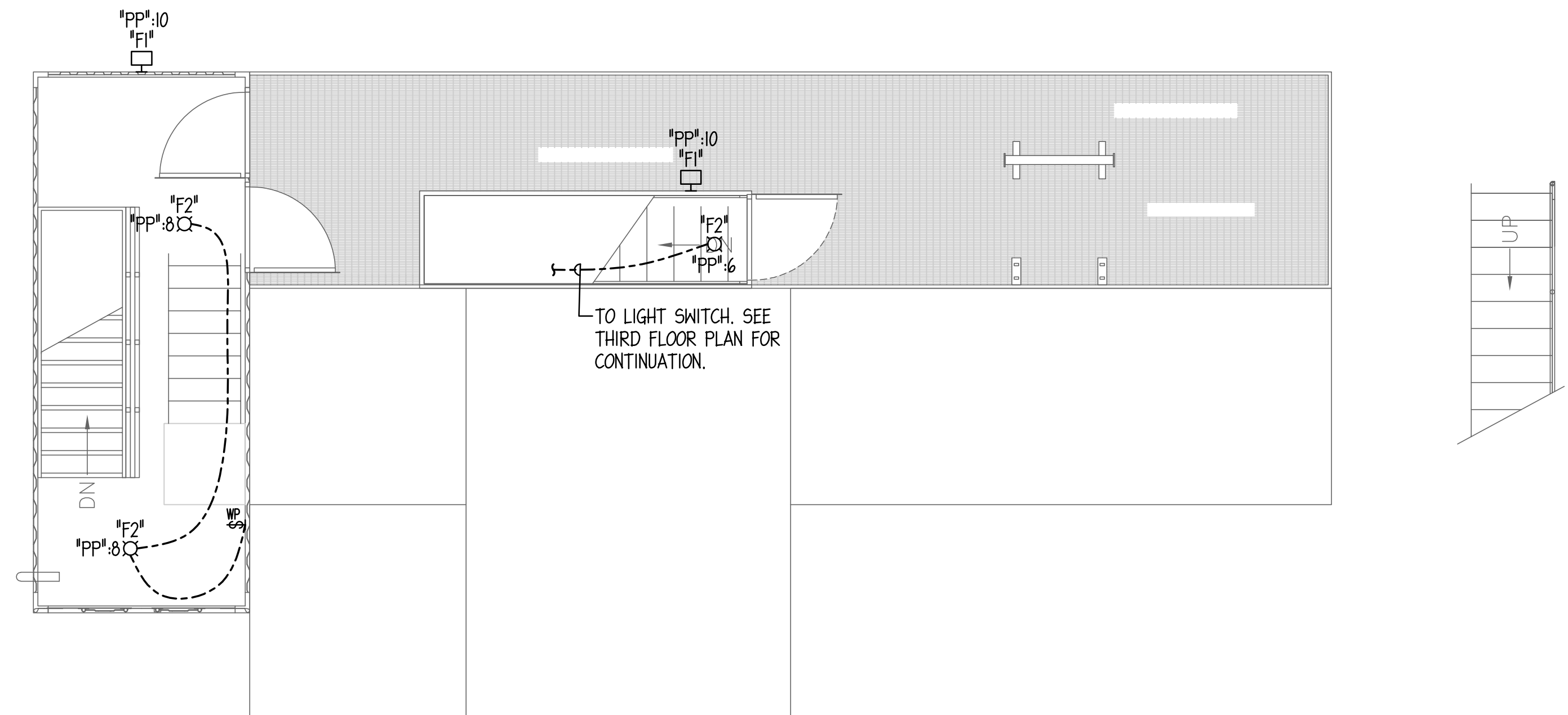


ARCHITECT:
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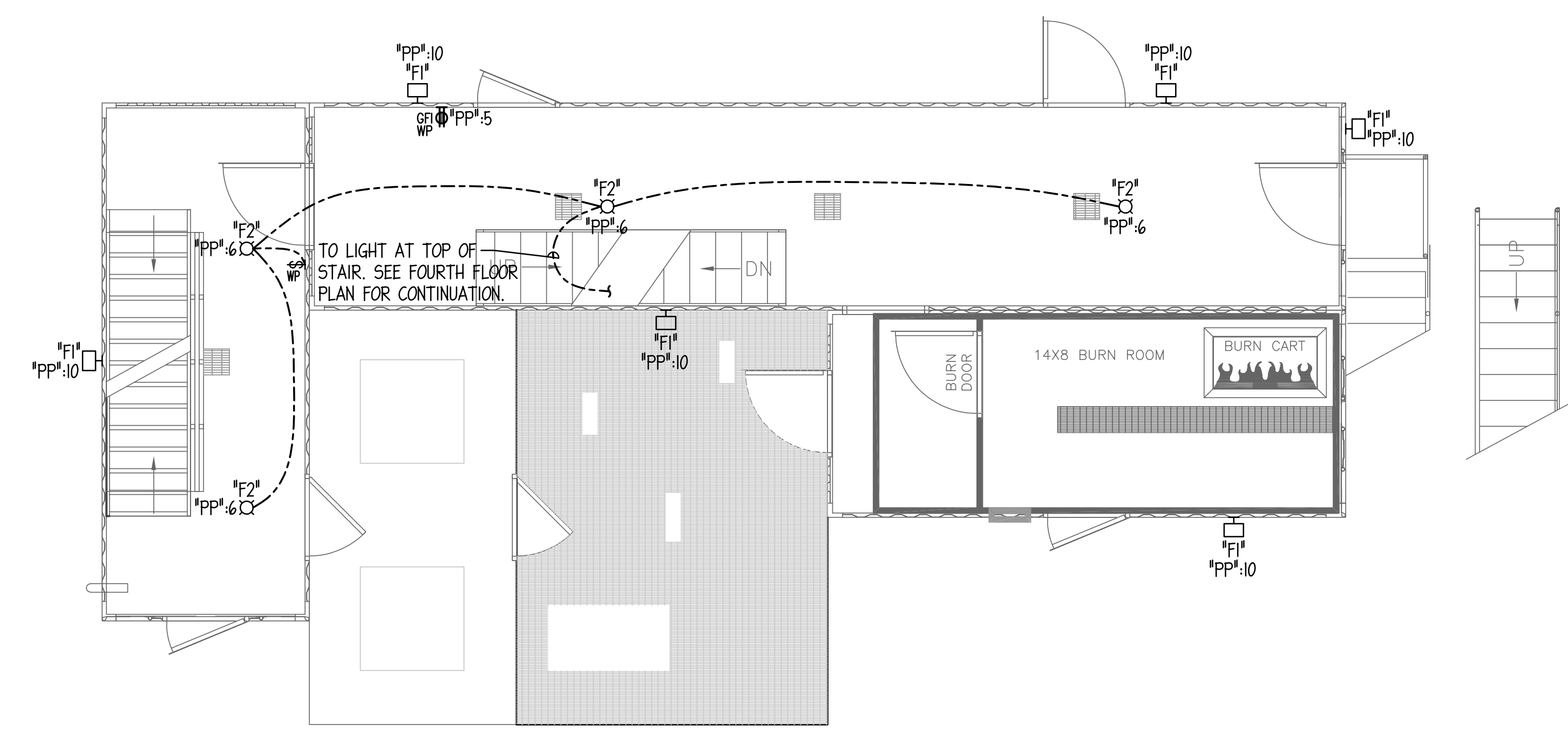
STRUCTURAL ENGINEER:
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CIVIL ENGINEER:
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ELECTRICAL ENGINEER:
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 1216 TOWER ROAD,
 SCHAUMBURG, IL 60173
 P: 847.882.2010



2 FOURTH FLOOR ELECTRICAL PLAN
 1/4" = 1'-0"



1 THIRD FLOOR ELECTRICAL PLAN
 1/4" = 1'-0"

- GENERAL NOTES:**
1. CONDUCTORS SHALL BE ROUTED IN GALVANIZED RIGID CONDUIT (GRC) WITH THREADED CONNECTIONS THAT IS SUITABLE FOR USE IN WET LOCATIONS.
 2. CONDUIT CLAMPS, HANGERS, BRACKETS, SUPPORT CHANNELS SHALL BE GALVANIZED THAT IS SUITABLE FOR USE IN WET LOCATIONS.
 3. JUNCTION BOXES SHALL BE DIE-CAST ALUMINUM WITH THREADED KNOCKOUTS THAT IS SUITABLE FOR USE IN WET LOCATIONS.
 4. PVC MATERIAL FOR CONDUITS AND JUNCTION BOXES WILL NOT BE PERMITTED.
 5. EXPOSED CONDUITS SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO WALLS AND CEILINGS FOR NEATNESS AND APPEARANCE. CONTRACTOR SHALL COORDINATE EXACT ROUTING AND INSTALLATION REQUIREMENTS IN FIELD WITH PRE-FABRICATED STRUCTURE SUPPLIER.

McHenry County College

Fire Tower Replacement

8900 Northwest Hwy #14, Crystal Lake, IL 60012
 DKA PROJECT NO: 25-028

KEY PLAN:

SHEET STATUS: 04/21/2026

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NO.	DESCRIPTION	DATE

SHEET TITLE:
ELECTRICAL PLANS

SHEET NUMBER:

E1.20

LEGEND:

---x---x---x---x---x--- DENOTES DEMOLITION.

--- DENOTES EXISTING TO REMAIN AND/OR BE REUSED.

— DENOTES NEW.

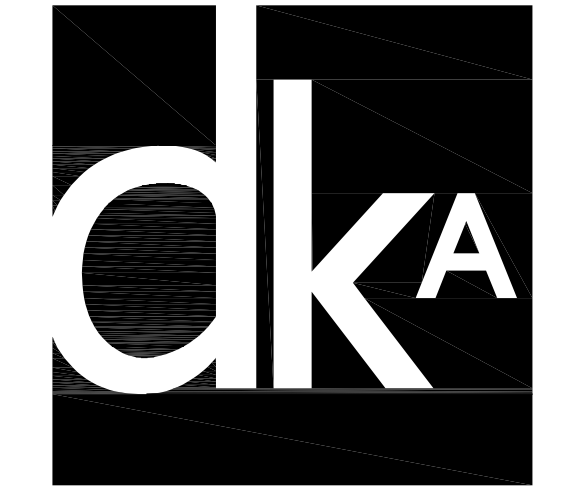
EXISTING CONDITIONS WERE OBTAINED FROM EXISTING AS-BUILT DRAWINGS AND CURSORY FIELD OBSERVATION. THIS CONTRACTOR SHALL IDENTIFY ANY DISCREPANCIES IN THE FIELD AND REPORT THEM TO THE ENGINEER.

INCLUDE COSTS IN BID PROPOSAL TO LOCATE AND MARK EXISTING UNDERGROUND UTILITIES WHERE NEW UNDERGROUND WORK IS INDICATED. PRIOR TO ANY CONSTRUCTION ACTIVITIES, FOR LOCATION OF UTILITIES, CALL J.U.L.I.E. AT 1-800-892-0123.

- GENERAL NOTES:**
- WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE WITH CITY OF CRYSTAL LAKE AMENDMENTS AND SHALL CONFORM TO MCHENRY COUNTY COLLEGE STANDARDS.
 - RISER DIAGRAM IS DIAGNAMTIC ONLY. COORDINATE EXACT ROUTING OF FEEDERS IN FIELD. PROVIDE PULLBOXES AS REQUIRED PER NEC REQUIREMENTS.
 - ALL ELECTRICAL EQUIPMENT SHOWN IS NEW UNLESS NOTED OTHERWISE.
 - PROVIDE 4" HOUSEKEEPING CONCRETE PAD FOR ALL FLOOR MOUNTED EQUIPMENT.
 - ALL PENETRATIONS THROUGH BUILDING SHALL BE SEALED WATER TIGHT PER ARCHITECT'S REQUIREMENTS.

DRAWING NOTES: (TYPICAL FOR THIS DRAWING ONLY.)

① PROVIDE 240/120V, 1-PHASE, 3-WIRE, 80KA SURGE PROTECTIVE DEVICE AS MANUFACTURED BY SQUARE-D #HFPD80 OR APPROVED EQUAL.



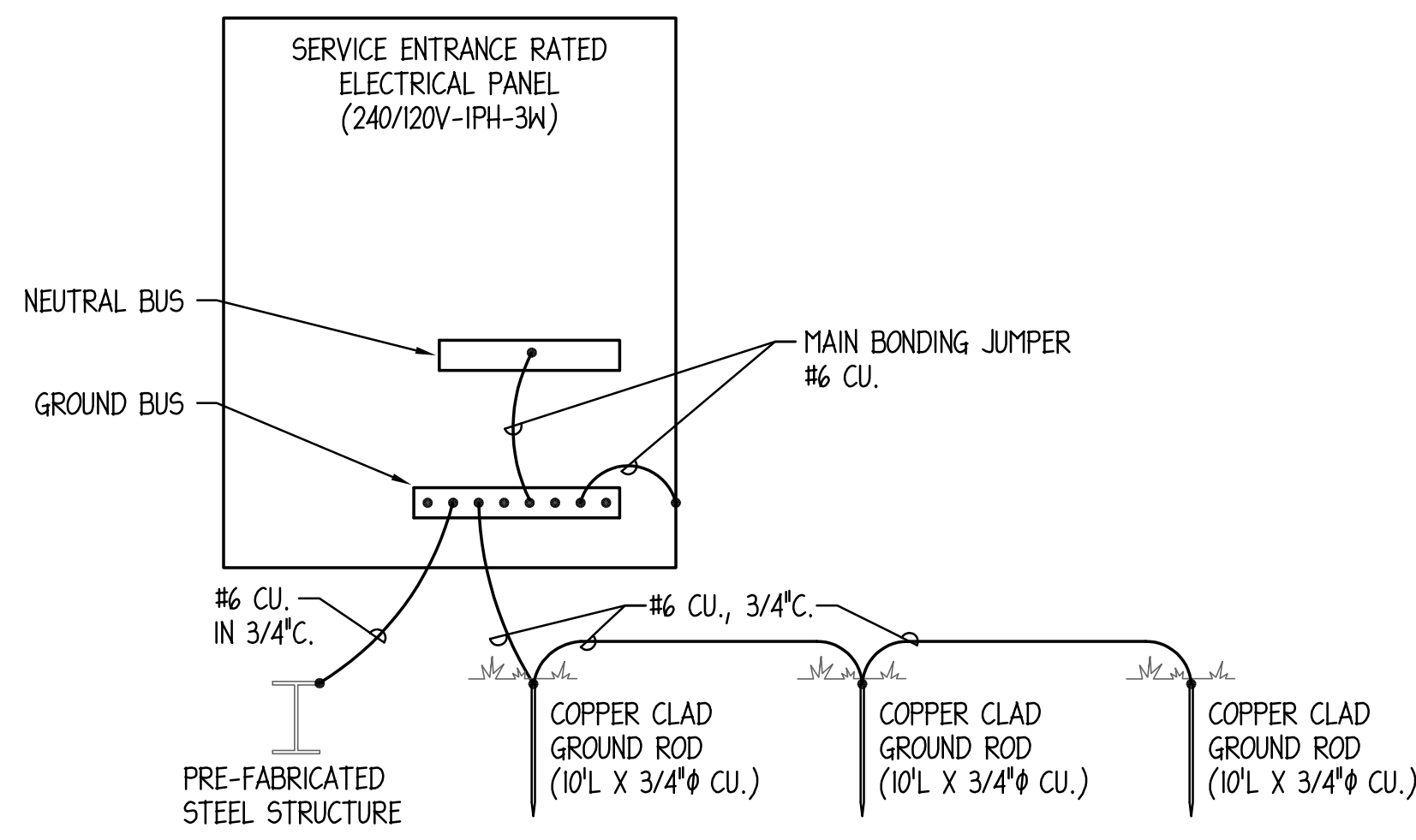
ARCHITECT:
DEMONICA KEMPER ARCHITECTS
 125 N. HALSTED STREET, SUITE 301
 CHICAGO, IL 60661
 P: 312.496.0000

STRUCTURAL ENGINEER:
IMEG CORP
 263 SHUMAN BLVD, SUITE 550
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 P: 630.527.2320

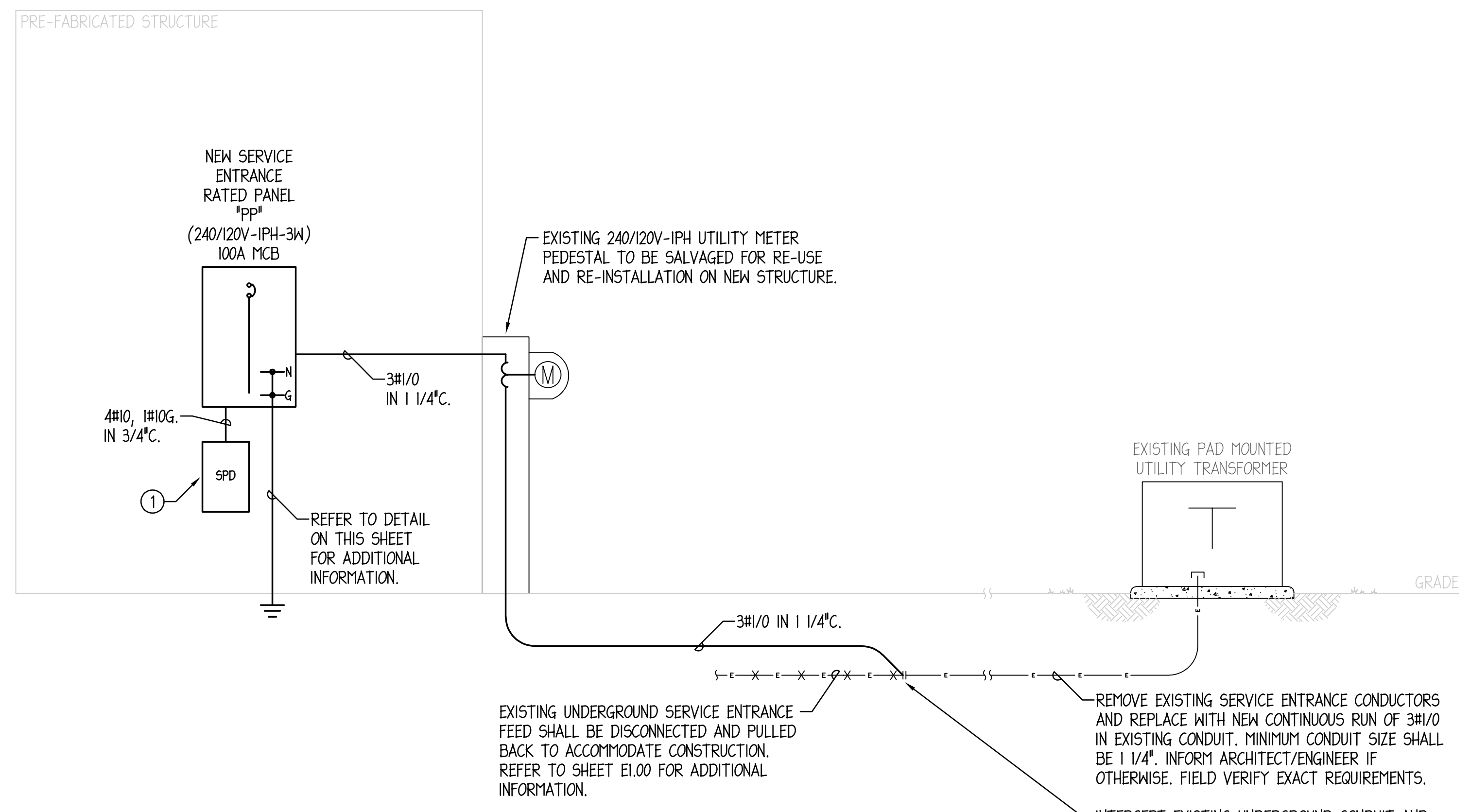
CIVIL ENGINEER:
HR GREEN
 1391 CORPORATE DRIVE, SUITE 203
 MCHENRY, IL, 60050
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ELECTRICAL ENGINEER:
20/10 ENGINEERING
 1216 TOWER ROAD,
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 P: 847.882.2010

McHenry County College
Fire Tower Replacement
 8900 Northwest Hwy #14, Crystal Lake, IL 60012
 DKA PROJECT NO: 25-028

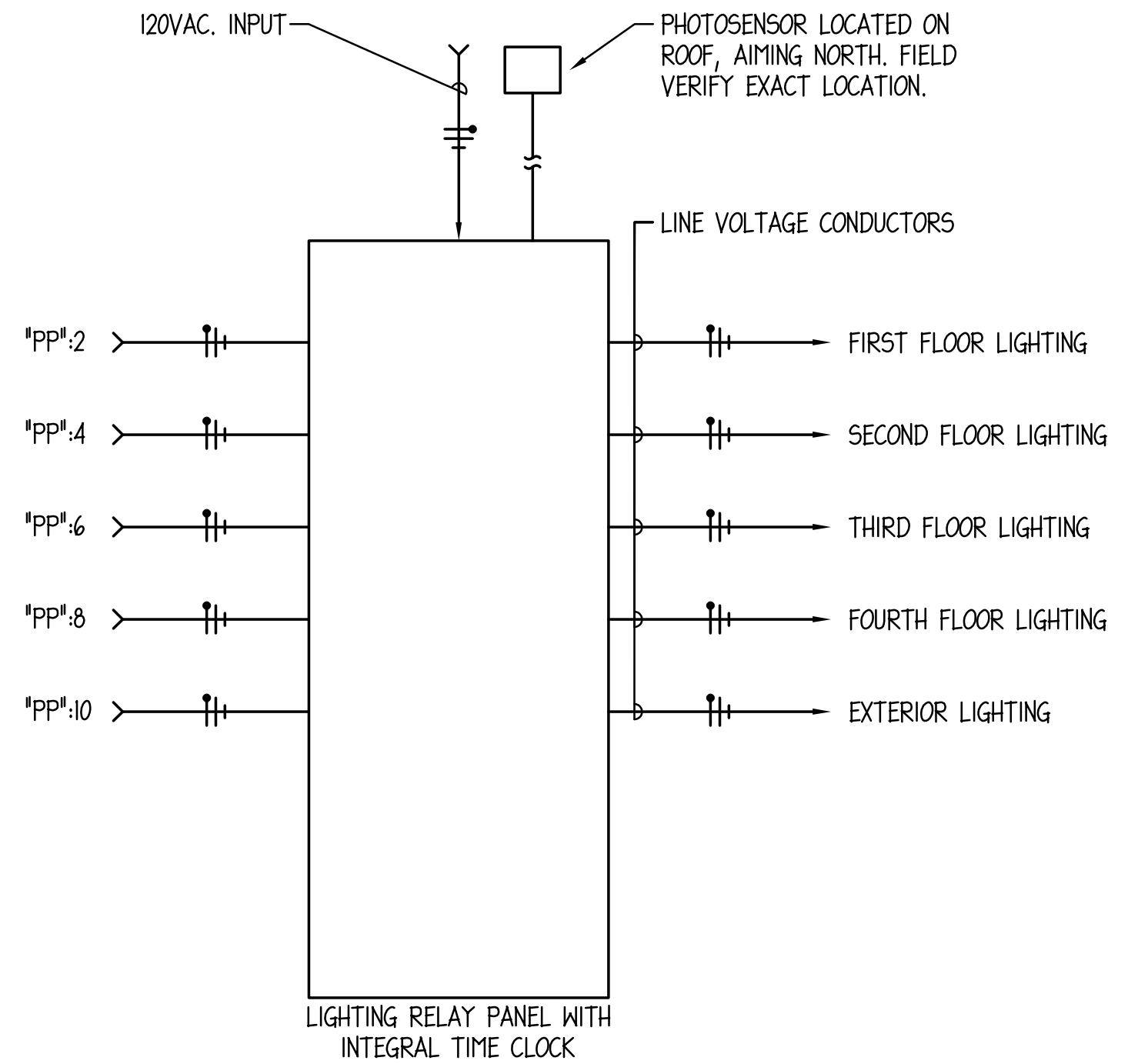


GROUNDING DETAIL (1)
 NO SCALE

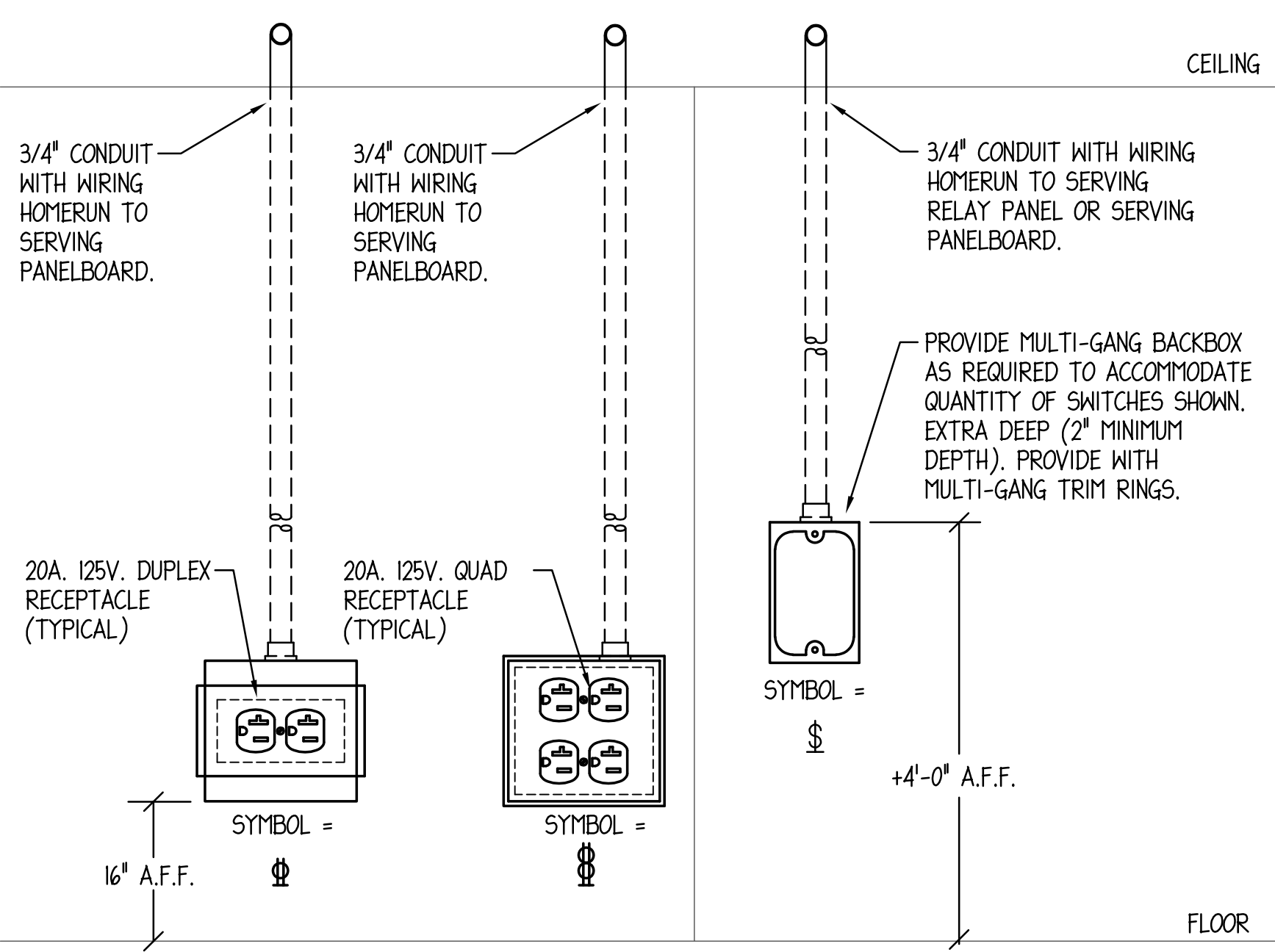


ELECTRICAL RISER DIAGRAM
 NO SCALE

- NOTES:**
- ELECTRICAL RISER DIAGRAM IS SHOWN FOR REFERENCE ONLY.
 - REFER TO PLANS FOR LOCATIONS OF EQUIPMENT.



LIGHTING CONTROL RELAY PANEL SCHEMATIC DIAGRAM
 NO SCALE



JUNCTION BOX ROUGH-IN DETAIL
 NO SCALE

- NOTES:**
- DETAILS ARE FOR REFERENCE ONLY.
 - NOT ALL DEVICES ARE REQUIRED FOR THIS PROJECT.
 - PROVIDE TWO GANG BACKBOXES (2" MINIMUM DEPTH) WITH ALL RECEPTACLE OUTLETS.

PANEL SCHEDULE: "PP"				LOCATION: BUILDING	C.B. RATING: VIFKALIC
USE AND/OR AREA SERVED		C/B NO.	CIR. NO.	AMPS	V.A.
R: FIRST FLOOR	1	1	180	2	20
R: SECOND FLOOR	2	3	180	4	20
R: THIRD FLOOR	3	5	180	6	20
M: LIFT STATION	4	7	960	8	20
SPARE	5	9	960	10	20
SPARE	6	11	-	12	20
SPARE	7	13	-	14	20
SPARE	8	15	-	16	20
SPARE	9	17	-	18	20
SPARE	10	19	-	20	20
SPD	11	21	-	22	20
SPARE	12	23	-	24	20
TOTAL CONNECTED LOAD PER PHASE:				1320	1140
				TOTAL V.A. = 2,460 10.25 AMPS	

- - BRANCH CIRCUIT BREAKER FURNISHED WITH PANEL.
 △ - CIRCUIT SHALL BE CONTROLLED VIA LIGHTING CONTROL RELAY PANEL.

LUMINAIRE SCHEDULE							
TYPE	DESCRIPTION	MOUNTING	LAMPS	VOLTAGE	INPUT WATTAGE	MANUFACTURER & CATALOG NUMBER	ALTERNATE BID MANUFACTURER
"F1"	LED WALL PACK	WALL	LED	UNV.	30.1	LITHONIA LIGHTING #DSXW1-LED-P2-40K-80CRI	HLI BEACON LIGHTING, SIGNIFY GARDCO
"F2"	VAPOR-TIGHT LIGHT	CEILING	LED	UNV.	15	LITHONIA LIGHTING #OLVTCM	HLI COLUMBIA LIGHTING, SIGNIFY DAY-BRITE

- NOTES:**
- CONTRACTOR TO PROVIDE ALL OPTIONS AND ACCESSORIES AS REQUIRED TO INSTALL LUMINAIRES IN VARYING CEILING TYPES AS SHOWN ON THE PLANS.
 - REFER TO ELEVATION PLANS FOR EXACT MOUNTING HEIGHTS.
- GENERAL NOTES:**
- CONTRACTOR TO PROVIDE ALL NECESSARY MOUNTING HARDWARE AND LABOR FOR ALL LUMINAIRES.
 - ALL FINISH COLORS AND COLOR TEMPERATURES TO BE CONFIRMED BY THE ARCHITECT.

KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO.	DESCRIPTION	DATE

SHEET TITLE:
ELECTRICAL RISER DIAGRAM, SCHEDULES AND DETAILS

SHEET NUMBER:
E2.00

ELECTRICAL SPECIFICATIONS

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE WITH CITY OF CRYSTAL LAKE AMENDMENTS AND SHALL CONFORM TO ICHENRY COUNTY COLLEGE STANDARDS.
- PROVIDE ALL PERMITS AND INSPECTION FEES.
- ALL MATERIAL AND LABOR SHALL BE GUARANTEED FOR ONE YEAR AFTER FINAL ACCEPTANCE BY THE OWNER.
- CONTRACTOR SHALL PROVIDE THEIR OWN RIGGING, SCAFFOLDING, RUBBISH REMOVAL, AND LEAVE SPACE BROOM CLEAN.
- MINIMUM SIZE CONDUIT SHALL BE 3/4" EMT. PROVIDE IMC/RMC WHERE EXPOSED TO WET OR DAMP LOCATIONS. IMC/RMC SHALL HAVE THREADED CONNECTIONS. TRANSITION TO LIQUID-TIGHT FLEXIBLE METAL CONDUIT FOR FINAL CONNECTION (MAXIMUM LAST 6 FEET) OF CONDUCTORS SERVING EQUIPMENT SUBJECT TO VIBRATION.
- MINIMUM SIZE CONDUCTOR SHALL BE #12 THHN, OR THIN WHERE REQUIRED. CONDUCTOR MATERIAL SHALL BE COPPER ONLY.
- PROVIDE SEPARATE, INSULATED EQUIPMENT GROUNDING CONDUCTOR WITHIN EACH FEEDER AND BRANCH CIRCUIT RACEWAY. TERMINATE EACH END ON SUITABLE LUG, BUS, OR BUSHING.
- BRANCH CIRCUIT CONDUCTORS FOR 20 AMP RECEPTACLES AND LIGHTING CIRCUITS SHALL BE ADJUSTED FOR VOLTAGE DROP:

A. 120/208V:	0-75'	-	#12AWG MINIMUM
	75'-150'	-	#10AWG MINIMUM
	150'-225'	-	#8AWG MINIMUM
B. 277/480V:	0-100'	-	#12AWG MINIMUM
	100'-200'	-	#10AWG MINIMUM
	200'-300'	-	#8AWG MINIMUM
- CONDUCTOR SIZES #14 AWG, #12 AWG, AND #10 AWG SHALL BE SOLID. CONDUCTOR SIZES #8 AWG AND LARGER SHALL BE STRANDED. ALL CONDUCTORS SHALL BE COLOR CODED.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY CUTTING AND PATCHING INCLUDING SLEEVES AND INSERTS.
- COLOR AND FINISH OF ALL MATERIALS SHALL BE SUBJECT TO REVIEW AND APPROVAL BY OWNER. PROVIDE SHOP DRAWINGS REQUIRED FOR FINISH AND COLOR SELECTION.
- ALL NEW CIRCUIT BREAKERS SHALL BE BOLT-ON BREAKERS (10,000 A.I.C. MINIMUM), COMPATIBLE WITH PANELBOARD. PROVIDE TYPEWRITTEN DIRECTORIES IN ALL PANELS.
- CONTRACTOR SHALL VISIT THE SITE TO ASCERTAIN ALL WORK INVOLVED IN THE PROJECT.
- CONTRACTOR SHALL COORDINATE THEIR WORK WITH OTHER CONTRACTORS ON THE PROJECT.
- CONTRACTOR SHALL MAKE NECESSARY MODIFICATIONS AND ADJUSTMENTS TO ALL ELECTRICAL ITEMS AND EQUIPMENT AS MAY BE REQUIRED BY THIS WORK.
- ALL ELECTRICAL EQUIPMENT MUST MAINTAIN WORKING CLEARANCES AS REQUIRED BY NEC.
- FLEXIBLE RACEWAY SYSTEMS SHALL NOT BE USED TO PENETRATE ROOFS, FLOORS, OR AIR/MOISTURE BARRIERS.
- RACEWAY SYSTEMS SHALL NOT BE ROUTED THROUGH OR IN HVAC DUCTS.
- WIRING DEVICES:

ACCEPTABLE MANUFACTURERS: HUBBELL, LEVITON, PASS & SEYMOUR OR COOPER.

SWITCHES SHALL BE COMMERCIAL GRADE, 120/277 VOLT, BACK AND SIDE WIRED, TOGGLE TYPE RATED AT 20 AMPERES AND UL LISTED.

RECEPTACLES SHALL BE SPECIFICATION GRADE, POLARIZED, GROUNDED, DUPLEX, BACK AND SIDE WIRED, RATED 20 AMPERES AND UL LISTED.
- DEVICE PLATES:

SWITCH AND RECEPTACLE PLATES IN FINISHED AREAS SHALL BE 302/304 STAINLESS STEEL FROM SAME MANUFACTURER AS WIRING DEVICES.
- LUMINAIRES:

LUMINAIRES SHALL BE PROVIDED AS SPECIFIED ON DRAWINGS. LUMINAIRES SHALL BE HUNG AND MOUNTED IN PLACE, PROPERLY WIRED, TESTED, AND LEFT READY FOR OPERATION BY THE CONTRACTOR.

WHERE LOCATED BENEATH DUCTWORK, THE CONTRACTOR IS PROHIBITED FROM PUNCTURING THE DUCTWORK OR MOUNTING LUMINAIRES DIRECTLY TO THE DUCTWORK. THE CONTRACTOR MAY MOUNT THE LUMINAIRES TO THE DUCTWORK SUPPORT MEMBERS.

HANGING DEVICES, BRACKETS, ENCLOSURES, AND OTHER ACCESSORIES SHALL BE PROVIDED FOR A COMPLETE INSTALLATION AND SHALL BE INSTALLED BY THE CONTRACTOR.

LUMINAIRES SHALL BE HUNG PLUMB AND SET SQUARE AGAINST THE WALL OR CEILING, OR SUSPENDED AS DESIGNATED.

THE MOUNTING HEIGHT OF LUMINAIRES SHALL BE CONFIRMED BEFORE INSTALLATION.

GENERAL ELECTRICAL NOTES

- THE MINIMUM WIRE SIZE SHALL BE 12 AWG. THE MINIMUM CONDUIT SIZE FOR HOMERUNS AND BRANCH FEEDS SHALL BE 3/4". ALL BRANCH CIRCUITS SHALL TERMINATE AT 20A, 1-POLE CIRCUIT BREAKERS IN PANELBOARD INDICATED UNLESS OTHERWISE NOTED.
- PROVIDE ALL PENETRATIONS, SLEEVES, AND SEALANT AS REQUIRED THROUGH PARTITIONS TO ACCOMMODATE THE FIRE ALARM, VOICE, AND DATA CABLING. ANY PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROPERLY SEALED AND TREATED TO MAINTAIN THE FIRE STOPPING RATING OF THE WALLS, FLOORS AND CEILINGS.
- BACKBOXES ARE TO BE MOUNTED OFFSET, NOT BACK TO BACK.
- CIRCUIT NUMBER(S), WHERE SHOWN, ARE TO INDICATE QUANTITY OF CIRCUITS REQUIRED. VERIFY EXACT CIRCUIT NUMBER TO BE UTILIZED IN FIELD. CONTRACTOR SHALL PROVIDE ACTUAL CIRCUITING AS PART OF "AS BUILT" DRAWINGS.
- UNLESS INDICATED OTHERWISE, MATERIALS REQUIRED TO PROVIDE BRANCH CIRCUITS AND FEEDERS ARE TO BE NEW.
- DURING THE COURSE OF INVESTIGATION AND DEMOLITION, IF IT IS DETERMINED THAT IT MAY BE FEASIBLE TO UTILIZE EXISTING MATERIALS FOR BRANCH CIRCUITS AND FEEDERS, CONTRACTOR SHALL NOTIFY ENGINEER FOR APPROVAL PRIOR TO PERFORMING ANY WORK.
- PROVIDE PULL BOX(ES) BETWEEN PULL POINTS AS REQUIRED TO COMPLY WITH NEC 344.26 THAT THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BEND (360 DEGREE TOTAL) BETWEEN PULL POINTS.
- SPECIAL ATTENTION SHALL BE PAID TO ALL CONDUIT ROUTING IN OPEN CEILING SPACE FOR AESTHETIC PURPOSES. ALL EXPOSED CONDUITS SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES AND TIGHT TO CEILING/STRUCTURAL CORNERS. WHERE THIS IS NOT FEASIBLE, SUBMIT CONDUIT ROUTING PLAN TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- CONTRACTOR SHALL PROVIDE DEDICATED NEUTRAL FOR EACH BRANCH CIRCUIT TO MEET THE REQUIREMENTS OF NEC ARTICLE 210.4(B).
- PROVIDE BOND TO JUNCTION BOX FROM EQUIPMENT GROUNDING CONDUCTOR IN JUNCTION BOXES WHERE CURRENT CARRYING CONDUCTORS ARE SPLICED OR TERMINATED.
- CONDUITS AND RACEWAYS SHALL NOT BE ROUTED ACROSS FLOORS OR SLABS.
- REFER TO ARCHITECTURAL FLOOR PLANS FOR ADDITIONAL INFORMATION REGARDING MOUNTING HEIGHTS AND LOCATIONS OF ELECTRICAL DEVICES BEFORE ROUGH-IN. WHERE CONFLICTS BETWEEN ELECTRICAL & ARCHITECTURAL ELEVATIONS ARISE, CONTRACTOR TO VERIFY WITH ARCHITECT/ENGINEER TEAM PRIOR TO ROUGH-IN.

GENERAL SITE ELECTRICAL NOTES

- SCHEDULE 40 PVC CONDUIT IS ACCEPTABLE AT ALL UNDERGROUND LOCATIONS EXCEPT THOSE ROUTED UNDER DRIVEWAYS OR ROADWAYS. SCHEDULE 80 PVC CONDUIT SHALL BE PROVIDED AT ALL LOCATIONS WHERE IT WILL EXPERIENCE VEHICULAR LOADS.
- ANY PENETRATIONS THROUGH BUILDING SHALL BE SEALED WATER TIGHT PER ARCHITECTS REQUIREMENTS. PROVIDE LINK-SEAL SLEEVE SYSTEM FOR ALL CONDUIT PENETRATIONS THROUGH THE EXTERIOR FOUNDATION WALL.
- CONTRACTOR SHALL EXERCISE CARE IN EXCAVATION AND CONSTRUCTION SO AS NOT TO DISTURB EXISTING UNDERGROUND SITE UTILITIES (UNLESS SPECIFICALLY DOCUMENTED TO DO SO). CONTRACTOR SHALL EMPLOY A SERVICE TO LOCATE UTILITIES AND SHALL CONSULT WITH THE OWNER AS TO POSSIBLE LOCATIONS OF UNDERGROUND UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RESTORE SERVICE AND PAY FOR ANY UTILITY FEES IN CONNECTION WITH RESTORATION OF SERVICE IN THE EVENT OF DISRUPTION DUE TO EXCAVATION OR CONSTRUCTION.
- LOCATIONS OF UTILITY LINES SHOWN FOR REFERENCE ONLY. EXACT ROUTING AND CONFIGURATION TO BE DETERMINED.
- PROVIDE TRENCHING AND BACKFILL AS REQUIRED. BACKFILL PER ARCHITECTS REQUIREMENTS, SURFACE SUITABLE FOR FINAL PAVEMENT LAYER. CONTRACTOR TO COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO ANY EXCAVATION.
- ANY TRENCHING AND EXCAVATION WITHIN THE DRIPLENE OF TREES IS PROHIBITED UNLESS OTHERWISE APPROVED BY THE ARCHITECT. AT CONTRACTOR'S OPTION, DIRECTIONAL BORING MAY BE USED FOR SITE UTILITIES.
- COORDINATE AND REVIEW WITH ARCHITECT FOR CONSTRUCTION PHASING, SCHEDULES AND FOR ADDITIONAL INFORMATION PRIOR TO SUBMITTING BID. INCLUDE ALL ASSOCIATED COSTS REQUIRED FOR A COMPLETE INSTALLATION AND OPERATIONAL SYSTEM.
- CONTRACTOR SHALL PROVIDE FLUSH IN-GRADE PULL BOXES AS REQUIRED TO FACILITATE PULLING OF CONDUCTORS.
- INSTALL TRACER WIRE LISTED FOR USE AND PURPOSE IN ANY UNDERGROUND CONDUITS DESIGNATED FOR TELECOMMUNICATIONS.
- VOLTAGE DROP FROM END OF THE BRANCH CIRCUIT TO PANEL SHALL BE LIMITED TO 3%.

ELECTRICAL SYMBOL LIST (NOTE: NOT ALL SYMBOLS ARE USED IN THE PROJECT.)

- LUMINAIRE PER LUMINAIRE SCHEDULE.
- EMERGENCY EXIT FIXTURE, SURFACE CEILING MOUNTED, SINGLE OR DOUBLE FACE, WITH OR WITHOUT DIRECTIONAL ARROWS.
- EMERGENCY EXIT FIXTURE, SURFACE WALL MOUNTED, SINGLE OR DOUBLE FACE, WITH OR WITHOUT DIRECTIONAL ARROWS.
- EMERGENCY BATTERY LIGHT FIXTURE.
- SELF-CONTAINED EMERGENCY LUMINAIRE WITH DUAL WEATHERPROOF REMOTE HEADS, BATTERY BACK-UP AND SOLID STATE CHARGER PER SCHEDULE.
- SINGLE POLE 20 AMP 120-277V VOLT TOGGLE SWITCH INSTALLED 48" A.F.F.
- "WP" DENOTES SWITCH WITH WEATHERPROOF COVER SIMILAR TO TATMAC #TC005 SUITABLE FOR MET LOCATIONS.
- WALL SWITCH/OCCUPANCY SENSOR PER LIGHTING CONTROL SCHEDULE.
- CEILING OCCUPANCY SENSOR, LETTER INDICATES TYPE PER LIGHTING CONTROL SCHEDULE.
- DENOTES ELECTRICAL DEVICE MOUNTED ON SURFACE RACEWAY, WIREMOLD 700 SERIES OR EQUAL.
- SURFACE MOUNTED (EXPOSED) CONDUIT, BACKBOX FOR DEVICE AS SHOWN
- SURFACE MOUNTED (EXPOSED) RECEPTACLE OUTLET(S) AND CONDUIT, INSTALLATION IN NON-PUBLIC AREAS ONLY (JANITOR CLOSET, ELECTRIC, BOILER ROOMS)
- 20A, 2P, 3 WIRE, GROUNDING TYPE, 125V, SPECIFICATION-GRADE, TAMPER-RESISTANT TYPE DUPLEX RECEPTACLE NEMA 5-20R INSTALLED 48" A.F.F. UNLESS NOTED OTHERWISE.
- "GFI" DENOTES RECEPTACLE EQUIPPED WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER.
- "WP" DENOTES WEATHER-RESISTANT TYPE RECEPTACLE WITH WHILE-IN-USE, DIE-CAST METAL, WEATHERPROOF COVER SIMILAR TO TATMAC #MX300.
- 20A, 2P, 3 WIRE, GROUNDING TYPE, 125V, SPECIFICATION-GRADE, TAMPER-RESISTANT TYPE DUPLEX RECEPTACLE NEMA 5-20R INSTALLED 6" ABOVE COUNTER TOP OR 42" A.F.F. UNLESS NOTED OTHERWISE.
- "GFI" DENOTES RECEPTACLE EQUIPPED WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER.
- "WP" DENOTES WEATHER-RESISTANT TYPE RECEPTACLE WITH WHILE-IN-USE, DIE-CAST METAL, WEATHERPROOF COVER SIMILAR TO TATMAC #MX300.
- POWER OUTLET, CEILING MOUNTED
- CEILING JUNCTION BOX.
- WALL MOUNTED JUNCTION BOX.
- JUNCTION BOX WITH FLEXIBLE CONDUIT AND FINAL CONNECTION TO EQUIPMENT.
- CONDUIT ROUTED CONCEALED IN WALLS AND CEILING. HASH MARKS DENOTE QUANTITY OF #12 CONDUCTORS OR AS NOTED.
- CONDUIT ROUTED EXPOSED. INSTALL PARALLEL TO WALLS AND CEILINGS. HASH MARKS DENOTE QUANTITY OF #12 CONDUCTORS OR AS NOTED.
- CONDUIT ROUTED BELOW GRADE. HASH MARK DENOTES QUANTITY OF #12 CONDUCTORS OR AS NOTED.
- DENOTES CONDUIT, 3/4" MINIMUM
- DENOTES INSULATED GROUND WIRE, #12 AWG MINIMUM
- LONG TICK MARK DENOTES NEUTRAL CONDUCTOR, #10 AWG MINIMUM
- SHORT TICK MARK DENOTES LINE (HOT) OR SWITCH LEG CONDUCTOR, #12 AWG MINIMUM.
- CIRCUIT BREAKER PANELBOARD.

ELECTRICAL ABBREVIATIONS

A	AMPERES	MIN	MINIMUM
AFCI	ARC FAULT CIRCUIT INTERRUPTER	MLO	MAIN LUGS ONLY
A.F.F.	ABOVE FINISHED FLOOR	MOCP	MAXIMUM OVERCURRENT PROTECTION
C	CONDUIT	PT	POTENTIAL TRANSFORMER
C/B	CIRCUIT BREAKER	SPD	SURGE PROTECTIVE DEVICE
CT	CURRENT TRANSFORMER	TR	TAMPER-RESISTANT
CU	COPPER	TYP.	TYPICAL
EC	ELECTRICAL CONTRACTOR	U.N.O.	UNLESS NOTED OTHERWISE
EM	EMERGENCY	V	VOLTS
FLA	FULL LOAD AMPS	VA	VOLT - AMPERES
G, GRD.	GROUND	W	WATTS
GFI	GROUND FAULT CIRCUIT INTERRUPTER	WG	WIRE GUARD
GFP1	GROUND FAULT PROTECTIVE EQUIPMENT	WP	WEATHER PROOF
HP	HORSEPOWER	XFMR	TRANSFORMER
I.T.	INFORMATION TECHNOLOGY	1P	SINGLE POLE
KCM	THOUSAND CIRCULAR MILS	2P	TWO POLE
MAX	MAXIMUM	3P	THREE POLE
MCA	MINIMUM CIRCUIT AMPS	∅	PHASE
MCB	MAIN CIRCUIT BREAKER		



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KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO.	DESCRIPTION	DATE

SHEET TITLE:
ELECTRICAL SYMBOL LIST, NOTES, AND SPECIFICATIONS

SHEET NUMBER:
E3.00