

September 20, 2024

VIA EMAIL
(35) Page(s) Inclusive

To: Prospective Bidders

Re: Village of Hoffman Estates

Village Green Concessions

Architect's Project Number: 24-002

Addendum #1

This addendum forms part of the bidding and contract documents and modifies the original bidding documents dated September 05, 2024. Acknowledge receipt of this addendum on the bid form. Failure to do so may disqualify the bidder.

Revise **SPECIFICATIONS** as follows:

- 1. Document 002113 Instructions to Bidders.
 - a. Page 002113-4, Article 1.13 Performance Assurance, Paragraph A, Item 2 and 2.a.
 - i. **REVISE** note as follows:
 - 1. "Provide a 100 percent Payment Bond on Owner's Payment Bond.
 - a. Refer to Section 012901 for Owner's Payment Bond to be completed by Contractor's surety"
- 2. Document 012091 Performance Bond.
 - a. **REPLACE** Section in its entirety.
- 3. Document 071113 Bituminous Damp Proofing.
 - a. **DELETE** Section in its entirety.
- 4. Document 071326 Sheet Waterproofing.
 - b. **DELETE** Section in its entirety.
- 5. Document 072113 Board and Batt Insulation.
 - a. Page 072113-2, Article 2.4 Accessories, Paragraph A
 - i. **DELETE** note as follows:
 - 1. "Sheet Vapor Retarder Type 1: Black polyethylene film for above grade application, 10 mil mil thick."
- 6. Document 105126 HDPE Lockers.
 - Page 105126-2, Article 2.3 Standard-Duty HDPE Lockers, Paragraph U
 Interior Equipment, Item 2 Wall Hook
 - i. **DELETE** note as follows:
 - 1. "Two single-prong hooks."

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- 7. Document 284600 Fire Detection and Alarm.
 - a. ADD attached Section in its entirety.

Revise **DRAWINGS** as follows:

- 1. Drawing C1.01 **REVISE** as follows:
 - a. Sidewalk at northeast end of development area revised to be removed. Revision tag R-2 revised to read "Omitted" – refer to replacement drawing attached.
- 2. Drawing C1.02 **REVISE** as follows:
 - a. Sidewalk at northeast end of development area revised to be proposed 10' width – refer to replacement drawing attached.
- 3. Drawing C1.03 **REVISE** as follows:
 - a. Sidewalk at northeast end of development area revised to be proposed 10' width – refer to replacement drawing attached.
- 4. Drawing C1.04 **REVISE** as follows:
 - a. Sidewalk at northeast end of development area revised to be proposed 10' width – refer to replacement drawing attached.
- 5. Drawing C2.00 **REVISE** as follows:
 - a. Proposed spot grades for sidewalk at northeast end of development area revised – refer to replacement drawing attached.
- 6. Drawing C3.00 **REVISE** as follows:
 - a. Sidewalk at northeast end of development area revised to be proposed 10' width – refer to replacement drawing attached.
- 7. Drawing A2.00 **REVISE** as follows:
 - a. Wall Type A and A-S: "Continuous vapor barrier match underlayment in metal wall panel system."
 - b. Wall Type C: "Continuous vapor barrier/ underlayment refer to Specifications under Metal Wall Panels."
- 8. Drawing A4.00 **REVISE / ADD** as follows, refer to replacement drawing attached:
 - a. **REVISE** reference note 7 as "Exterior Light Fixture refer to electrical drawings."
 - b. **ADD** to reference note 17: "Signage to be provided by allowance."
 - c. **ADD** canopy to 1/A4.00 as bubbled.

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- 9. Drawing A5.10 and A5.11 **REVISE** notes as follows:
 - a. Referenced note 11A: "Continuous vapor barrier to match vapor barrier underlayment in metal wall panel system refer to Specifications."
 - Referenced note 35: "LED illuminated box wall signage refer to exterior elevation and electrical drawings - provide wood blocking as required. Signage to be provided by allowance."
 - c. Referenced note 38: "TV Screen supplied by owner and installed by GC refer to electrical drawings provide wood blocking as required."
- 10. Drawing 1/A8.20 **REVISE** note as follows:
 - a. "LED illuminated box wall signage refer to exterior elevation and electrical drawings provide wood blocking as required."
- 11. Drawing E1.00 **ADD** as follows, refer to replacement drawing attached:
 - a. Fire alarm panel
 - b. Fire alarm devices
 - c. Callout for telephone backboard
 - d. Location of telecom entrance with note
- 12. Drawing E4.00 **ADD** as follows, refer to replacement drawing attached:
 - a. 20A circuit to Panel 'A' for timeclock
- 13. Drawing E5.00 **ADD** as follows, refer to replacement drawing attached.:
 - a. Added circuits to Detail 5
 - b. Added Detail 6
- 14. Drawing P2.00 **REVISE** as follows:
 - a. Detail 1 revised refer to replacement drawing attached.
- 15. Drawing FP0.00 **REVISE** as follows:
 - a. Detail 2 has been revised refer to replacement drawing attached.

CLARIFICATION TO THE DOCUMENTS as follows:

1. QUESTION: C1.04 – Would it be possible to indicate where the existing electrical service transformer is located so that we can determine accurate quantities of excavation and raceway?

ANSWER: Refer to Sheet C1.01, removal tag R-16.

2. QUESTION: AS1.00 & AS2.00 – Privacy Fence. Drawing sheets reference prefinished aluminum T&G privacy boards and rails. The specification calls for Greenwood Fence Inc to be the supplier. It does not appear that they make an aluminum T&G privacy board. Should the privacy boards be Greenwood's standard composite product?

ANSWER: Greenwood Fence Inc makes aluminum fence and trellis. Please reach out to Mike Difatta (mike@greenwoodfence.com).

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3. QUESTION: Privacy Fence boards are called out as smooth finish aluminum in the specification. If we are to provide the composite boards, are we to provide a smooth finish or a wood grain finish?

ANSWER: Refer to answer to Question 2 above.

4. QUESTION: Aluminum Trellis – Same question regarding the T&G privacy boards applies. Also, please confirm that section 10 73 16 Metal Canopies only applies to the prefab canopies above the concession windows and not to the trellis.

ANSWER: Yes, confirmed, not trellis.

5. QUESTION: A4.00 - Note 18 - Can a sample of the painted wall graphic be provided to assist with pricing?

ANSWER: Refer to attached ASK01 - rendering with wall graphic.

- QUESTION: A5.10 Note 38 Is mounting bracket and TV size information for the TVs available? Do we assume wood blocking at TVs? ANSWER: Mounting bracket and TV size information not available. Yes provide wood blocking as required. Refer to revision tag #1 on A5.10 – Note 38.
- 7. QUESTION: 3/S3.00 The bracing note calls for brace at each joist but the detail is for conditions where joists are perpendicular. Are we to provide bracing at 16" O.C. to match the joist spacing?

ANSWER: Correct, there should be a brace located at each wall stud down to the joist/deck down below. Refer to SSK01 for perpendicular joist condition.

8. QUESTION: 3/S3.00 – Is there a detail showing the attachment of the bracing to the roof structure? Will these braces terminate into the metal deck or do we need to provide joist bridging between the roof joists wherever the kicker lands?

ANSWER: Refer to attached SSK-01.

9. QUESTION: Are there any restrictions as to which roads we are allowed to use for construction traffic? For example, will all deliveries be required to enter the development off of Beverly Rd vs Higgins Rd? Are we allowed to bring deliveries in via Hoffman Blvd from Route 59?

ANSWER: There are no restrictions. Deliveries can enter 59 to Hoffman Blvd or 72/Beverly to Prairie Stone Pkwy.

10. QUESTION: At exterior cavity walls that are NOT shear walls, is an exterior sheathing board such as DensGlass acceptable in lieu of treated plywood? The cost of DensGlass is approximately 40% less than treated plywood.

ANSWER: Provide plywood as specified. You are welcome to suggest DensGlass on Substitution Sheet.

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11. QUESTION: Are tapered insulation crickets required at the pavers surrounding the exhaust fan to allow for continuous drainage?

ANSWER: No

- 12. QUESTION: Should the insulation thickness at all roof drains be 6"?

 ANSWER: The roof framing is sloped structure with 6" base insulation on one side and 9.5" on the other side per the roof plan in order to move the low point off the wall.
- 13. QUESTION: Sheet E3.00 is showing "Panel A" as existing.

 ANSWER: This panel is existing. It was installed in the first phase of this project during the landscape remodel and replacement of bollards around the grounds.
- 14. QUESTION: There is no fire alarm shown on the drawings. Please clarify how we should address this item?

ANSWER: Fire alarm system has been added to the drawings. Final design by others.

15. QUESTION: There is no security shown on the drawings. Please clarify how we should address this item?

ANSWER: There are card readers shown on the plans. Security will be a delegated design.

- 16. QUESTION: Should tele/data cabling be included in our proposal?
 - a. If yes, please provide cabling specifications
 - b. Where is the cabling to be terminated?
 - c. Is the main incoming communications line by the owner's vendor not included in our cost?

ANSWER: Low voltage, tele / data is by owner. Conduit and boxes are on electrical drawings. Telephone backboard shown in mechanical room.

- 17. QUESTION: Regarding the new main transformer location.
 - a. Who is responsible to intercept and extend the existing conduit of the primary feed to the relocated transformer? If EC (not COMED) is responsible we need a detailed location of the power pole or splice box in the field.
 - b. Who is responsible for relocating the transformer. EC or COMED?
 - c. Please provide size and thickness of concrete pad for the transformer.

ANSWER:

- a. It seems that ComEd would be responsible for this relocation, since the primary conduit and transformer belongs to them. I would think the EC would then be responsible for secondary conduit (reconnection to transformer).
- b. I do not think that ComEd would allow anyone else to relocate their

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transformer.

- c. This should be provided on ComEd's website or it will be provided directly from ComEd based on the transformer size.
- 18. QUESTION: Panel A and associated feeds are called out as existing on E1.00 and E3.00. The location for this panel is in a new building. Is this panel to be relocated from the existing building or is it new?

 ANSWER: This is an existing panel that was installed during the first phase of this project and was mounted on the exterior of the existing concessions building that is going to be torn down. This panel needs to be relocated to the interior of the new building once it is built.
- 19. QUESTION: Normally per Illinois Plumbing codes there is only one water service that comes into a building, it splits after it comes up out of the floor. One way it goes to fire protection and the other way it goes to the domestic water service. It is highly unusual to use a wall post indicator in the fashion shown in Detail 2 on FP0.00, especially if this is a combined water service. There is a shutoff valve in the 6" underground supply and the shut off valve for the fire sprinkler system will be the downstream valve of the backflow preventor. Please confirm the control valve and wall post indicator shown in Detail 2 on FP0.00 can be eliminated.

ANSWER: Intent is to provide a combined service into the building and split into fire protection and domestic water service after penetrating through floor. This is called out in keynotes on sheets P1.00 & FP1.00. Detail 1/P2.00 & Detail 2/FP0.00 have been removed as they do not depict accurate information for this project. Control valve and wall post indicator can be eliminated. New detail included for combined service include (New 2/FP0.00).

20. QUESTION: Please confirm the main drain can be a 2" size as per NFPA- 13 2019 edition, section 16.10.4.2 and Table 16.10.4.2 in lieu of the $2\frac{1}{2}$ " size shown.

ANSWER: 2" main drain is confirmed. Detail 2/FP0.00 has been replaced.

21. QUESTION: Please confirm the intent of the details in Detail 2/ FP0.00 is to provide a combination inspectors test and drain valve at the wet system riser.

ANSWER: Detail 2/FP0.00 has been replaced. However, the intent is indeed that there is a test port for the riser.

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22. QUESTION: Dwg. ES.00 shows location of relocated existing utility transformer and to extend existing conduit. By extending conduit are we to provide new underground conduit and cable from relocated utility transformer to building meter? If so, where is the location of the building meter? Distribution diagram on dwg. E3.00 does not indicate information on this.

ANSWER: The transformer will be moved closer to the existing meter. The existing location of this meter is unknown and will need to be field verified. The contractor will be responsible for reconnecting secondary conduits/conductors to the relocated transformer.

- 23. QUESTION: Dwg. ES.00 shows location of new 277V pole type P1 with a 120V GFI receptacle. Do we need to run a new 120V circuit and conduit from building panel C to pole light for the new GFI outlet?

 ANSWER: Yes. The circuit is called out next to the receptacle.
- 24. QUESTION: If there is a main low voltage run to the mechanical room, please provide the location of its termination

ANSWER: This location is now shown on the power plan.

Sincerely,

TRIA ARCHITECTURE, INC. Pei-San Ng, AIA, LEED AP Architect III

PSN/ab

Attachments: Spec Section 012091, Dated September 20, 2024, (7) Pages

Spec Section 284600, Dated September 20, 2024, (6) Pages

Drawing C1.01, Dated September 20, 2024, (1) Page Drawing C1.02, Dated September 20, 2024, (1) Page Drawing C1.03, Dated September 20, 2024, (1) Page Drawing C1.04, Dated September 20, 2024, (1) Page Drawing C2.00, Dated September 20, 2024, (1) Page Drawing C3.00, Dated September 20, 2024, (1) Page Drawing A4.00, Dated September 20, 2024, (1) Page Drawing E1.00, Dated September 20, 2024, (1) Page Drawing E4.00, Dated September 20, 2024, (1) Page Drawing E4.00, Dated September 20, 2024, (1) Page

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Drawing E5.00, Dated September 20, 2024, (1) Page

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Drawing P2.00, Dated September 20, 2024, (1) Page Drawing FP0.00, Dated September 20, 2024, (1) Page Drawing ASK-01, Dated September 20, 2024, (1) Page

Drawing SSK-01, Dated September 20, 2024, (1) Page

cc: Bryan Ackerlund, Village of Hoffman Estates

Dan O'Malley, Village of Hoffman Estates

Ronald McGrath, TRIA Architecture

File Name: 24002AD1-092024.doc

PERFORMANCE AND PAYMENT BONDS

PART 1 - GENERAL

1.1 REQUIREMENTS

- A. 100% Performance Bond to be provided on attached form to be completed by the Contractor's surety upon award of the Contract for Construction by the Owner.
- B. 100% Payment Bond to be provided on attached form to be completed by the Contractor's surety upon award of the Contract for Construction by the Owner.

END OF SECTION

DOND AMOUNT.	
PRINCIPAL: BOND AMOUNT: (written out & numerically)	
CO-PRINCIPAL(S): CONTRACT DOCUMENTS:	
CUDETY/JEC). PROJECT.	
SURETY(IES): PROJECT:	

KNOW ALL MEN BY THESE PRESENTS, that we, the Principal(s) and Surety(ies) hereto, recite and declare that:

- 1. The Principal(s) and Surety(ies) on this bond agree that all undertakings, covenants, terms, conditions and agreements of the Contract Documents listed above and incorporated herein by reference will be performed and fulfilled and to pay all persons, firms and corporations having contracts with the principal or with subcontractors, all just claims due to them under the provisions of such contracts for labor performed or materials furnished in the performance of the Contract on account of which this bond is given.
- 2. We are held and firmly bound to the obligee Village of Hoffman Estates, Illinois (hereinafter called "Village"), in the sum written above in lawful money of the United States of America, to be paid to the Village, its successors or assigns, for the payment whereof Principal(s), Co-Principals and Surety(ies) bind themselves, their heirs, executors, administrators, successors and 5. assigns, jointly and severally, firmly by this Bond. a)
- 3. The condition of this Bond is that if the Principal shall in every respect perform all of its obligations under the Contract Documents identified above, which Contract Documents are incorporated herein by reference, then this Bond shall be void; otherwise, the Bond shall continuously remain in full force and effect until released by the Village. Contract Documents shall also include any agreements, bid documents, specifications, engineering, design, or construction requirements or other Village documents associated with the Project, including any laws, ordinances and/or governmental regulations related to the Project.
- 4. Surety waives all of its surety defenses including, but not limited to, the following:
- a) It shall be the duty of the Principal to notify the Surety of any revision of the plans, profiles and specifications referred to in the Contract Documents. The Surety expressly waives any right to receive notice from the obligee or to review or approve any revisions to the plans, profiles and specifications referred to in the Contract Documents which are required to meet governmental standards. No such revisions of any kind in the work shall in any way affect the obligation of the Surety under this Bond;
- b) Any extension or reduction of time beyond the period provided for in the Contract Documents for completion of its obligations under the Agreement shall in no way affect the obligation of the Surety under this Bond;
- c) The failure or refusal of Village to take any action, proceeding, or steps to enforce any remedy or exercise any right under the Contract Documents, or that taking of any action, proceeding, or step by

Village, acting in good faith upon the belief that same is permitted by the provisions of the Contract Documents, shall not in any way release Principal or Surety, or either of them, or their respective executors, administrators, successors, or assigns, from liability under this Bond. Surety hereby waives notice of any amendment, indulgence made, granted or permitted;

- d) The Principal, Co-Principal and Surety intend that each provision of this Bond be valid and binding upon them and expressly agree to abide thereby;
- e) In the event of a default of this Bond, the Village may terminate whatever rights Principal, Co-Principal and/or Surety may have to perform further work on the Project.
- f) The requirement of any other entity to perform any obligations contained in the Contract Documents shall in no way affect the obligations of the Surety under this Bond.

4. Default:

A default shall be deemed to have occurred on the part of the Principal if Principal shall fail to complete its obligations under the Contract Documents within the time set forth therein or any extensions thereof; or, prior to the expiration of such period, if in the sole judgment of the Village, the Principal has:

- A) abandoned the performance of its obligations under the Contract Documents; or
- B) failed to pay all persons, firms and corporations having contracts with the principal or with subcontractors, all just claims due to them under the provisions of such contracts for labor performed or materials furnished in the performance of the Contract Documents; or
- C) renounced or repudiated its obligations under the Contract Documents; or
- D) clearly demonstrated through insolvency, or otherwise, that its obligations under the Contract Documents cannot be completed within the time allotted under the Contract Documents.

If the Principal defaults in the performance of all or any part of the obligations specified in the Contract Documents, the Village shall give written notice of the default to the Surety, with a copy to the Principal and Co-Principal, if any. In the event of such default and notice, Surety shall, within 45 days of receipt of the default notice, give written notice to the Village stating whether Surety will assume the Contract Document obligations and the obligations of the Principal, and should it elect to assume said obligations, Surety shall be required to complete the obligations specified in the Contract Documents according to its terms and provisions within 180

days of said notice, but not before expiration of the period provided for under the Contract Documents and approved extensions thereof. In the event that Surety elects to assume the obligations of Principal as provided herein and thereafter fails to faithfully perform all or any part of the work, or should it unnecessarily delay all or any part of the work, then the Village may proceed as provided in Paragraph No. 5 of this Bond.

- 6. Should Surety following notice of default notify the Village that Surety elects not to assume the obligations of Principal under the Contract Documents, or fails within 45 days of receipt of the default notice as provided in Paragraph No. 4) above to notify the Village whether Surety elects to assume the obligations of Principal under the Contract Documents, or having elected to assume the obligations of Principal, should it then fail to perform, then in any event the Village may elect any of the following procedures or any combination thereof:
- a) Terminate whatever rights the Principal, Co-Principal and/or Surety may have to perform further work on the Project;
- Take over or relet all or any part of the work under the Contract Documents which is not completed and complete the same for the account and at the expense of the Principal and Surety, who shall be jointly and severally liable to Village for the costs incurred in completion of the obligations under the Contract Documents and/or correction thereof. Such costs as identified in the Contract Documents shall include, but not be limited to, construction, engineering, surveying, maintenance, donations, impact fees, deterioration, administration, supervision, reasonable attorney's fees, and any costs associated or related to any litigation of the Bond agreement and shall be adjusted for inflation. The amount of Village's actual costs for completion and/or correction of the work required under the Contract Documents shall be conclusive of the extent of the liability of Principal and Surety and may exceed the Bond Amount:
- c) Require the Surety to pay the Bond Amount to the Village as liquidated damages.
- 7. Should Surety, following notice of default notify the Village within 45 days of the receipt of the default notice choose to pay the Village for completion of the obligation under the Contract Documents, the Surety shall have the right to demand that the Village state a sum constituting the estimated costs at that time, of completion and/or correction of the work required under the Contract Documents, such as costs as defined in Paragraph

- No. 5b). Surety shall then immediately pay over to the Village the sum so stated and be released from any further obligations under this Bond. If funds are paid over under this section and the paid over funds are not sufficient to complete the work, the Village's sole remedy shall be to proceed against the Principal(s) and Co-Principals for any deficiency. If there are any paid over funds not necessary for completion of the work, the Village will return the excess to Surety after completion of the work.
- 8. If any action or proceeding is initiated in connection with this Bond and any and all obligations arising hereunder the venue thereof shall be in State Court in the County of Cook, State of Illinois, it is further understood and agreed that this contract shall be governed by the laws of the State of Illinois, both as to interpretation and performance.
- All notices sent to the Principal(s), Co-9. Principals, and Surety(ies) shall be sent to the address set forth on the signature page unless said Principal(s), Co-Principal(s) and Surety(ies) notify the Village in writing of any change. If the addresses of any of the Principal(s), Co-Principal(s) and Surety(ies) change, the Principal(s), Co-Principal(s) or Surety(ies) shall immediately notify the Village in writing of such change. Failure to notify the Village of any change in address is deemed to be a waiver of any requirement for notice under this Bond to the Principal(s), Co-Principal(s) or Surety(ies). All written notices to the Village required under the Bond shall be sent certified mail to the Village Clerk.
- 10. If any one or more of the provisions of this Bond are determined to be illegal or unenforceable by a court of competent jurisdiction, all other provisions shall remain effective.
- 11. No party other than the Village shall have any rights under this Bond as against the Surety.
- 12. As part of the obligation secured hereby and in addition the Bond Amount specified herein, there shall be included costs, interest and reasonable expenses and fees (including, without limitation, attorneys' fees and costs), incurred by the Village in enforcing this agreement, to be awarded by the court.
- 13. Nonpayment of the premiums associated with this Bond will not invalidate this Bond nor shall Village be obligated for the payment thereof. Surety agrees to deliver written notice of nonpayment under this Bond or other actions to the Village.
- 14. Surety waives its right to trial by jury.

IN WITNESS WHEREOF, the parties have caused this Agreement to be signed and sealed as of the day and year set forth above.

PRINCIPAL

Type of Organization:	Legal Name of Organization:
State of Incorporation:	
	Address:
Authorized Signature(s):	
By:Signature	By:Signature
(Type name and title)	(Type name and title)
ACKNO	WLEDGMENT OF PRINCIPAL(S)
STATE OFCOUNTY/CITY OF	
I,	Notary Public in and for the State and County/City aforesaid,
whose name is signed to the for County/City aforesaid and acknowledged the	egoing bond, this day personally appeared before me in my State and
Given under my hand this day of My commission expires:	
	NOTARY PUBLIC
Surety:	
Bond No.:	

CO-PRINCIPAL(S)

Type of Organization:	Legal Name of Organization:
State of Incorporation:	
	Address:
Authorized Signature(s):	
By:	By:
By:Signature	By:Signature
(Type name and title)	(Type name and title)
ACKNOW	LEDGMENT OF CO-PRINCIPAL(S)
STATE OFCOUNTY/CITY OF	
I,do hereby certify that	Notary Public in and for the State and County/City aforesaid,
whose name is signed to the fore County/City aforesaid and acknowledged the	egoing bond, this day personally appeared before me in my State and
Given under my hand this day of _ My commission expires:	,
way commission expires.	NOTARY PUBLIC
Surety:Bond No.:	
	CORPORATE SURETY
Type of Organization:	Legal Name and Address:
Liability Limit:	
	Address:
Authorized Signature(s):	
By:	By:
Signature	Signature
(Type name and title)	(Type name and title)

ACKNOWLEDGMENT OF CORPORATE SURETY(S)

STATE OF		<u> </u>
COUNTY/CITY OF		:
I,do hereby certify that		Notary Public in and for the State and County/City aforesaid
whose name is signe	ed to the foregoin	ng bond, this day personally appeared before me in my State and
County/City aforesaid and ackr	nowledged the san	ne.
Given under my hand this My commission expires:		,
		NOTARY PUBLIC
Surety:		
Bond No.:	·	

FIRE DETECTION AND ALARM

PART 1 – GENERAL

1.1 SECTION INCLUDES

- A. Fire alarm system design and installation, including all components, wiring, and conduit.
- B. Transmitters for communication with supervising station.

1.2 RELATED REQUIREMENTS

- A. Section 211300 Fire-Suppression Sprinkler Systems: Supervisory, alarm, and actuating devices installed in sprinkler system.
- B. Section 233300 Air Duct Accessories: Smoke dampers monitored and controlled by fire alarm system.

1.3 REFERENCE STANDARDS

- A. <u>36 CFR 1191</u> Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines; current edition.
- B. ADA Standards 2010 ADA Standards for Accessible Design; 2010.
- C. <u>IEEE C62.41.2</u> IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000 V and less) AC Power Circuits; 2002 (Corrigendum 2012).
- D. NFPA 70 National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- E. NFPA 72 National Fire Alarm and Signaling Code; Most Recent Edition Cited by Referring Code or Reference Standard.
- F. NFPA 101 Life Safety Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.4 SUBMITTALS

- A. See Section 013300 Administrative Requirements, for submittal procedures.
- B. Evidence of designer qualifications.
- C. Design Documents: Submit all information required for plan review and permitting by authorities having jurisdiction, including but not limited to floor plans, riser diagrams, and description of operation:
 - 1. Copy (if any) of list of data required by authority having jurisdiction.
 - 2. NFPA 72 "Record of Completion", filled out to the extent known at the time.
 - 3. Clear and concise description of operation, with input/output matrix similar to that shown in NFPA 72 Appendix A-7-5-2.2(9), and complete listing of software required.
 - 4. System zone boundaries and interfaces to fire safety systems.
 - 5. Location of all components, circuits, and raceways; mark components with identifiers used in control unit programming.
 - 6. Circuit layouts; number, size, and type of raceways and conductors; conduit fill calculations; spare capacity calculations; notification appliance circuit voltage drop calculations.
 - 7. List of all devices on each signaling line circuit, with spare capacity indicated.
 - 8. Manufacturer's detailed data sheet for each component, including wiring diagrams, installation instructions, and circuit length limitations.
 - 9. Description of power supplies; if secondary power is by battery include calculations demonstrating adequate battery power.
 - 10. Certification by either the manufacturer of the control unit or by the manufacturer of each other component that the components are compatible with the control unit.
 - 11. Certification by the manufacturer of the control unit that the system design complies with Contract Documents.
 - 12. Certification by Contractor that the system design complies with Contract Documents.
- D. Evidence of installer qualifications.
- E. Evidence of maintenance contractor qualifications, if different from installer.
- F. Inspection and Test Reports:
 - 1. Submit inspection and test plan prior to closeout demonstration.
 - 2. Submit documentation of satisfactory inspections and tests.

FIRE DETECTION AND ALARM

- 3. Submit NFPA 72 "Inspection and Test Form," filled out.
- G. Operating and Maintenance Data: See Section 017800 for additional requirements; revise and resubmit until acceptable; have one set available during closeout demonstration:
 - 1. Complete set of specified design documents, as approved by authority having jurisdiction.
 - 2. Additional printed set of project record documents and closeout documents, bound or filed in same manuals.
 - Contact information for firm that will be providing contract maintenance and trouble callback service.
 - 4. List of recommended spare parts, tools, and instruments for testing.
 - 5. Replacement parts list with current prices, and source of supply.
 - 6. Detailed troubleshooting guide and large scale input/output matrix.
 - 7. Preventive maintenance, inspection, and testing schedule complying with NFPA 72; provide printed copy and computer format acceptable to Owner.
 - 8. Detailed but easy to read explanation of procedures to be taken by non-technical administrative personnel in the event of system trouble, when routine testing is being conducted, for fire drills, and when entering into contracts for remodeling.
- H. Project Record Documents: See Section 017800 for additional requirements; have one set available during closeout demonstration:
 - Complete set of floor plans showing actual installed locations of components, conduit, and zones.
 - 2. "As installed" wiring and schematic diagrams, with final terminal identifications.
 - 3. "As programmed" operating sequences, including control events by device, updated input/output chart, and voice messages by event.
- I. Closeout Documents:
 - 1. Certification by manufacturer that the system has been installed in compliance with manufacturer's installation requirements, is complete, and is in satisfactory operating condition.
 - 2. NFPA 72 "Record of Completion", filled out completely and signed by installer and authorized representative of authority having jurisdiction.

1.5 QUALITY ASSURANCE

- A. Designer Qualifications: NICET Level III or IV (3 or 4) certified fire alarm technician or registered fire protection engineer, employed by fire alarm control panel manufacturer, Contractor, or installer, with experience designing fire alarm systems in the jurisdictional area of the authorities having jurisdiction.
- B. Installer Qualifications: Firm with minimum 3 years documented experience installing fire alarm systems of the specified type and providing contract maintenance service as a regular part of their business.
 - Authorized representative of control unit manufacturer; submit manufacturer's certification that installer is authorized; include name and title of manufacturer's representative making certification.
 - 2. Installer Personnel: At least 2 years of experience installing fire alarm systems.
 - 3. Supervisor: NICET level III or IV (3 or 4) certified fire alarm technician; furnish name and address.
- C. Maintenance Contractor Qualifications: Same entity as installer or different entity with specified qualifications.

1.6 WARRANTY

- A. Provide control panel manufacturer's warranty that system components other than wire and conduit are free from defects and will remain so for 1 year after date of Substantial Completion.
- B. Provide installer's warranty that the installation is free from defects and will remain so for 1 year after date of Substantial Completion.

FIRE DETECTION AND ALARM

PART 2 - PRODUCTS

2.1	ΜΔΙ	NIIFA	CTU	IRERS
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A.	Fire Alarm Control Units and Accessories:
	1. Honeywell Security & Fire Solutions/Gamewell-FCI;: www.gamewell-fci.com/#sle.
	2. Honeywell Security & Fire Solutions/Fire-Lite;: www.firelite.com/#sle.
	3. Honeywell Security & Fire Solutions/Notifier;: www.notifier.com/#sle.
	4. Honeywell Security & Fire Solutions/Silent Knight;: www.silentknight.com/#sle.
	5. Potter Electric Signal Company;: www.pottersignal.com/#sle.
	6. Siemens Building Technologies, Inc;: www.usa.siemens.com/#sle.
	7. Simplex, a brand of Johnson Controls;: www.simplex-fire.com/#sle.
	8. Provide control units made by the same manufacturer.
B.	Initiating Devices and Notification Appliances:
	1. Honeywell Security & Fire Solutions/Gamewell-FCI;: www.gamewell-fci.com/#sle.
	2. Honeywell Security & Fire Solutions/Fire-Lite;: www.firelite.com/#sle.
	3. Honeywell Security & Fire Solutions/Notifier;: www.notifier.com/#sle.
	4. Honeywell Security & Fire Solutions/Silent Knight;: www.silentknight.com/#sle.
	5. Honeywell Security & Fire Solutions/Vista;: www.security.honeywell.com/#sle.
	6. Siemens Building Technologies, Inc;: www.sbt.siemens.com/#sle.
	7. Simplex, a brand of Johnson Controls;: www.simplex-fire.com/#sle.
	8. Same manufacturer as control units.
	9. Provide initiating devices and notification appliances made by the same manufacturer,
	where possible.
C.	Substitutions: See Section 016000 - Product Requirements.
	1. For other acceptable manufacturers of control units specified, submit product data showing
	equivalent features and compliance with Contract Documents.
	2. For substitution of products by manufacturers not listed, submit product data showing
	features and certification by Contractor that the design will comply with Contract

2.2 FIRE ALARM SYSTEM

Documents.

- A. Fire Alarm System: Provide a new automatic fire detection and alarm system:
 - Provide all components necessary, regardless of whether shown in Contract Documents or not.
 - 2. Protected Premises: Entire building shown on drawings.
 - 3. Comply with the following; where requirements conflict, order of precedence of requirements is as listed:
 - a. ADA Standards.
 - b. The requirements of the State Fire Marshal.
 - c. The requirements of the local authority having jurisdiction, which is Village of Hoffman Estates.
 - d. Applicable local codes.
 - e. Contract Documents (drawings and specifications).
 - f. NFPA 101.
 - g. NFPA 72; where the word "should" is used consider that provision mandatory; where conflicts between requirements require deviation from NFPA 72, identify deviations clearly on design documents.
 - 4. Fire Command Center: Location indicated on drawings.
 - 5. Fire Alarm Control Unit: New, located at fire command center.
- B. Supervising Stations and Fire Department Connections:
 - 1. Public Fire Department Notification: By on-premises supervising station.
 - 2. Remote Supervising Station: UL-listed central station under contract to facility.
 - 3. Means of Transmission to Remote Supervising Station: Digital alarm communicator transmitter (DACT), 2 telephone lines.

FIRE DETECTION AND ALARM

C. Circuits:

- 1. Initiating Device Circuits (IDC): Class B, Style A.
- 2. Signaling Line Circuits (SLC) Within Single Building: Class B, Style 0.5.
- 3. Notification Appliance Circuits (NAC): Class B, Style W.

D. Spare Capacity:

- 1. Initiating Device Circuits: Minimum 25 percent spare capacity.
- 2. Notification Appliance Circuits: Minimum 25 percent spare capacity.
- 3. Speaker Amplifiers: Minimum 25 percent spare capacity.
- 4. Fire Alarm Control Units: Capable of handling all circuits utilized to capacity without requiring additional components other than plug-in control modules.

E. Power Sources:

- 1. Primary: Dedicated branch circuits of the facility power distribution system.
- 2. Secondary: Storage batteries.
- 3. Capacity: Sufficient to operate entire system for period specified by NFPA 72.
- 4. Each Computer System: Provide uninterruptible power supply (UPS).

2.3 FIRE SAFETY SYSTEMS INTERFACES

- A. Supervision: Provide supervisory signals in accordance with NFPA 72 for the following:
 - 1. Sprinkler water control valves.
 - 2. Dry-pipe sprinkler system pressure.
 - 3. Dry-pipe sprinkler valve room low temperature.
- B. Alarm: Provide alarm initiation in accordance with NFPA 72 for the following:
 - 1. Sprinkler water flow.
 - 2. Kitchen hood suppression activation; also disconnect fuel source from cooking equipment.
 - 3. Duct smoke detectors.
- C. HVAC
 - 1. Duct Smoke Detectors: Close dampers indicated; shut down air handlers indicated.

2.4 COMPONENTS

- A. General:
 - 1. Provide flush mounted units where installed in finish areas; in unfinished areas, surface mounted unit are acceptable.
 - 2. Provide legible, permanent labels for each control device, using identification used in operation and maintenance data.
- B. Fire Alarm Control Units: Conventional or addressable type; listed, classified, and labeled as suitable for the purpose intended.
- C. Initiating Devices:
 - 1. Addressable Systems:
 - a. Addressable Devices: Individually identifiable by addressable fire alarm control unit.
 - b. Provide suitable addressable interface modules as indicated or as required for connection to conventional (non-addressable) devices and other components that provide a dry closure output.
- D. Notification Appliances:
- E. Circuit Conductors: Copper or optical fiber; provide 200 feet (60 m) extra; color code and label.
- F. Surge Protection: In accordance with <u>IEEE C62.41.2</u> category B combination waveform and <u>NFPA 70</u>; except for optical fiber conductors.
- G. Locks and Keys: Deliver keys to Owner.
- H. Instruction Charts: Printed instruction chart for operators, showing steps to be taken when a signal is received (normal, alarm, supervisory, and trouble); easily readable from normal operator's station.
 - 1. Frame: Stainless steel or aluminum with polycarbonate or glass cover.
 - 2. Provide one for each control unit where operations are to be performed.
 - 3. Obtain approval of Owner prior to mounting; mount in location acceptable to Owner.
 - 4. Provide extra copy with operation and maintenance data submittal.

FIRE DETECTION AND ALARM

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install in accordance with applicable codes, NFPA 72, NFPA 70, and Contract Documents.
- B. Conceal all wiring, conduit, boxes, and supports where installed in finished areas.
- C. Obtain Owner's approval of locations of devices, before installation.
- D. Install instruction cards and labels.

3.2 INSPECTION AND TESTING FOR COMPLETION

- A. Notify Owner 7 days prior to beginning completion inspections and tests.
- B. Notify authorities having jurisdiction and comply with their requirements for scheduling inspections and tests and for observation by their personnel.
- C. Provide the services of the installer's supervisor or person with equivalent qualifications to supervise inspection and testing, correction, and adjustments.
- D. Prepare for testing by ensuring that all work is complete and correct; perform preliminary tests as required.
- E. Provide all tools, software, and supplies required to accomplish inspection and testing.
- F. Perform inspection and testing in accordance with <u>NFPA 72</u> and requirements of local authorities; document each inspection and test.
- G. Correct defective work, adjust for proper operation, and retest until entire system complies with Contract Documents.

3.3 CLOSEOUT

- A. Closeout Demonstration: Demonstrate proper operation of all functions to Owner.
 - 1. Be prepared to conduct any of the required tests.
 - 2. Have at least one copy of operation and maintenance data, preliminary copy of project record drawings, input/output matrix, and operator instruction chart(s) available during demonstration.
 - 3. Have authorized technical representative of control unit manufacturer present during demonstration.
 - 4. Demonstration may be combined with inspection and testing required by authority having jurisdiction; notify authority having jurisdiction in time to schedule demonstration.
 - 5. Repeat demonstration until successful.

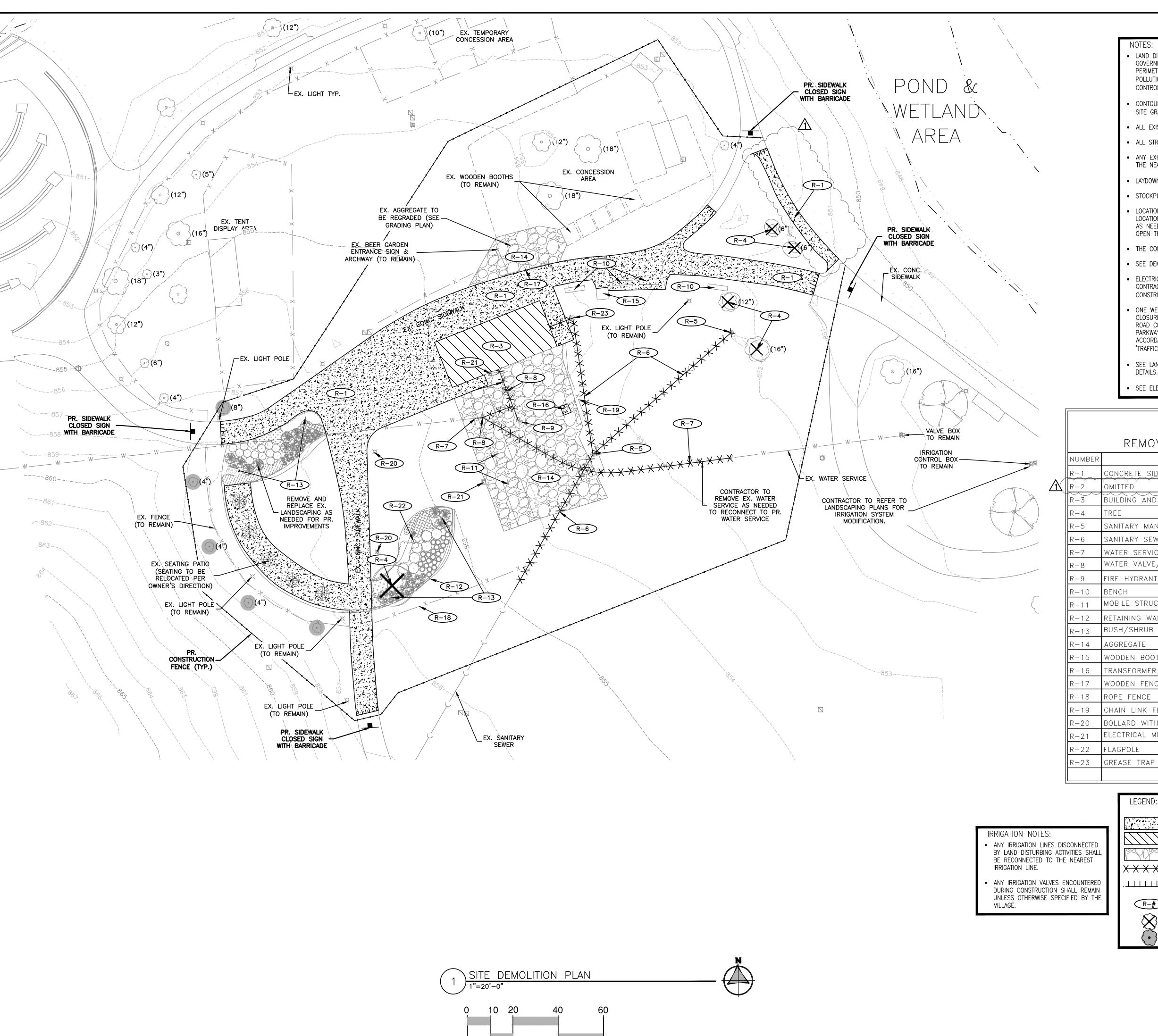
3.4 MAINTENANCE

- A. See Section 017300 Execution and Closeout Requirements, for additional requirements relating to maintenance service.
- B. Perform routine inspection, testing, and preventive maintenance required by NFPA 72, including:
 - 1. Maintenance of fire safety interface and supervisory devices connected to fire alarm system.
 - 2. Repairs required, unless due to improper use, accidents, or negligence beyond the control of the maintenance contractor.
 - 3. Record keeping required by NFPA 72 and authorities having jurisdiction.
- C. Provide trouble call-back service upon notification by Owner:
 - 1. Provide on-site response within 2 hours of notification.
 - 2. Include allowance for call-back service during normal working hours at no extra cost to Owner.
 - 3. Owner will pay for call-back service outside of normal working hours on an hourly basis, based on actual time spent at site and not including travel time; include hourly rate and definition of normal working hours in maintenance contract.
- D. Provide a complete description of preventive maintenance, systematic examination, adjustment, cleaning, inspection, and testing, with a detailed schedule.

FIRE DETECTION AND ALARM

- E. Maintain a log at each fire alarm control unit, listing the date and time of each inspection and call-back visit, the condition of the system, nature of the trouble, correction performed, and parts replaced. Submit duplicate of each log entry to Owner's representative upon completion of site visit.
- F. Comply with Owner's requirements for access to facility and security.

END OF SECTION



- 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. INCLUDING STORM WATER POLLUTION PREVENTION PLAN PER THE DEVELOPMENT CRITERIA. (SEE SHEETS C3.00-C3.02 FOR EROSION CONTROL MEASURES)
- CONTOURS AND SPOT GRADES SHOWN ARE FINISH GRADE ELEVATIONS. (SEE SHEETS C2.00-C2.00 FOR SITE GRADING)
- ALL EXISTING UTILITIES AND STORM SEWER TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- ALL STRUCTURES & DEBRIS SHALL BE REMOVED PRIOR TO CONSTRUCTION & DISPOSED OF OFFSITE.
- ANY EXISTING FIELD DRAIN TILES ENCOUNTERED SHALL BE REPAIRED, RECONNECTED OR CONNECTED TO THE NEAREST FIELD TILE.
- LAYDOWN/STAGING LOCATION TO BE DETERMINED BY CONTRACTOR AND OWNER.
- STOCKPILE LOCATION TO BE DETERMINED BY CONTRACTOR AND OWNER.
- LOCATION OF CONSTRUCTION FENCING SHOWN IS APPROXIMATE. CONTRACTOR TO COORDINATE EXACT LOCATION OF CONSTRUCTION FENCING WITH OWNER IN THE FIELD. CONTRACTOR SHALL ADJUST THE FENCE AS NEEDED TO PROVIDE A WORK AREA AS INDICATED WHILE ALLOWING THE ADJACENT AREAS TO REMAIN OPEN THROUGHOUT CONSTRUCTION.
- THE CONSTRUCTION SITE SHALL BE SECURED WHENEVER CONTRACTOR IS NOT ON SITE.
- SEE DEMOLITIONS SHEET C1.01 FOR REMOVAL, RELOCATION AND ADJUSTMENTS.

R-# REMOVAL TAGS

- ELECTRICAL WORK WILL BE PERFORMED OUTSIDE OF THE CONSTRUCTION FENCE AREA SHOWN. CONTRACTOR SHALL PROTECT THOSE AREAS AS NEEDED WITH TEMPORARY CONSTRUCTION FENCE, DUPONT CONSTRUCTION FENCING #L60 OR L70.
- ONE WESTBOUND LANE OF TRAFFIC SHALL REMAIN OPEN ON PRAIRIE STONE PARKWAY. ANY LANE CLOSURE ON PRAIRIE STONE PARKWAY SHALL BE IN ACCORDANCE WITH IDOT HIGHWAY STANDARD 701601 ROAD CONSTRUCTION AHEAD AND CONSTRUCTION ACCESS SIGNS SHALL BE PLACED ALONG PRAIRIE STONE PARKWAY. SIDEWALK CLOSURE SIGNS SHALL BE PLACED AS INDICATED ON THE PLANS AND IN ACCORDANCE WITH IDOT HIGHWAY STANDARD 701801. THIS WORK WILL BE PAID FOR PER LUMP SUM AS 'TRAFFIC CONTROL AND PROTECTION'.
- SEE LANDSCAPE ARCHITECTURE DRAWINGS (L SERIES) FOR SITE DESIGN, LAYOUT AND CONSTRUCTION
- SEE ELECTRICAL DRAWINGS (E SERIES) FOR ELECTRICAL DESIGN AND CONSTRUCTION DETAILS.

		REMOVALS / RELO	CATES / ADJUSTMENTS
	NUMBER		REMARKS
	R-1	CONCRETE SIDEWALK	REMOVE
Λ	R-2	OMITTED	
	R-3	BUILDING AND FOUNDATION	REMOVE
	R-4	TREE	REMOVE
	R-5	SANITARY MANHOLE	REMOVE
	R-6	SANITARY SEWER	REMOVE
	R-7	WATER SERVICE	REMOVE
	R-8	WATER VALVE/BOX	REMOVE
	R-9	FIRE HYDRANT ASSEMBLY	REMOVE
	R-10	BENCH	REMOVE & REINSTALL PER OWNER'S DIRECTION
	R-11	MOBILE STRUCTURE/UNIT	RELOCATE PER OWNER'S DIRECTION
	R-12	RETAINING WALL	REMOVE
	R-13	BUSH/SHRUB	REMOVE
	R-14	AGGREGATE	REMOVE
	R-15	WOODEN BOOTH	REMOVE & REINSTALL PER OWNER'S DIRECTION
	R-16	TRANSFORMER & PAD	REMOVE
	R-17	WOODEN FENCE	REMOVE
	R-18	ROPE FENCE	REMOVE
	R-19	CHAIN LINK FENCE	REMOVE
	R-20	BOLLARD WITH LIGHT	REMOVE
	R-21	ELECTRICAL METER/BOX	REMOVE
	R-22	FLAGPOLE	REMOVE

REMOVE

DENOTES CONCRETE SIDEWALK REMOVAL DENOTES BUILDING & FOUNDATION REMOVAL DENOTES AGGREGATE REMOVAL

XXXX DENOTES UTILITIES TO BE REMOVED

. DENOTES SAWCUT (FULL DEPTH)

R-# DENOTES MISC. REMOVAL ITEMS (SEE THIS SHEET FOR DESCRIPTION)

DENOTES TREE AND BRUSH REMOVAL

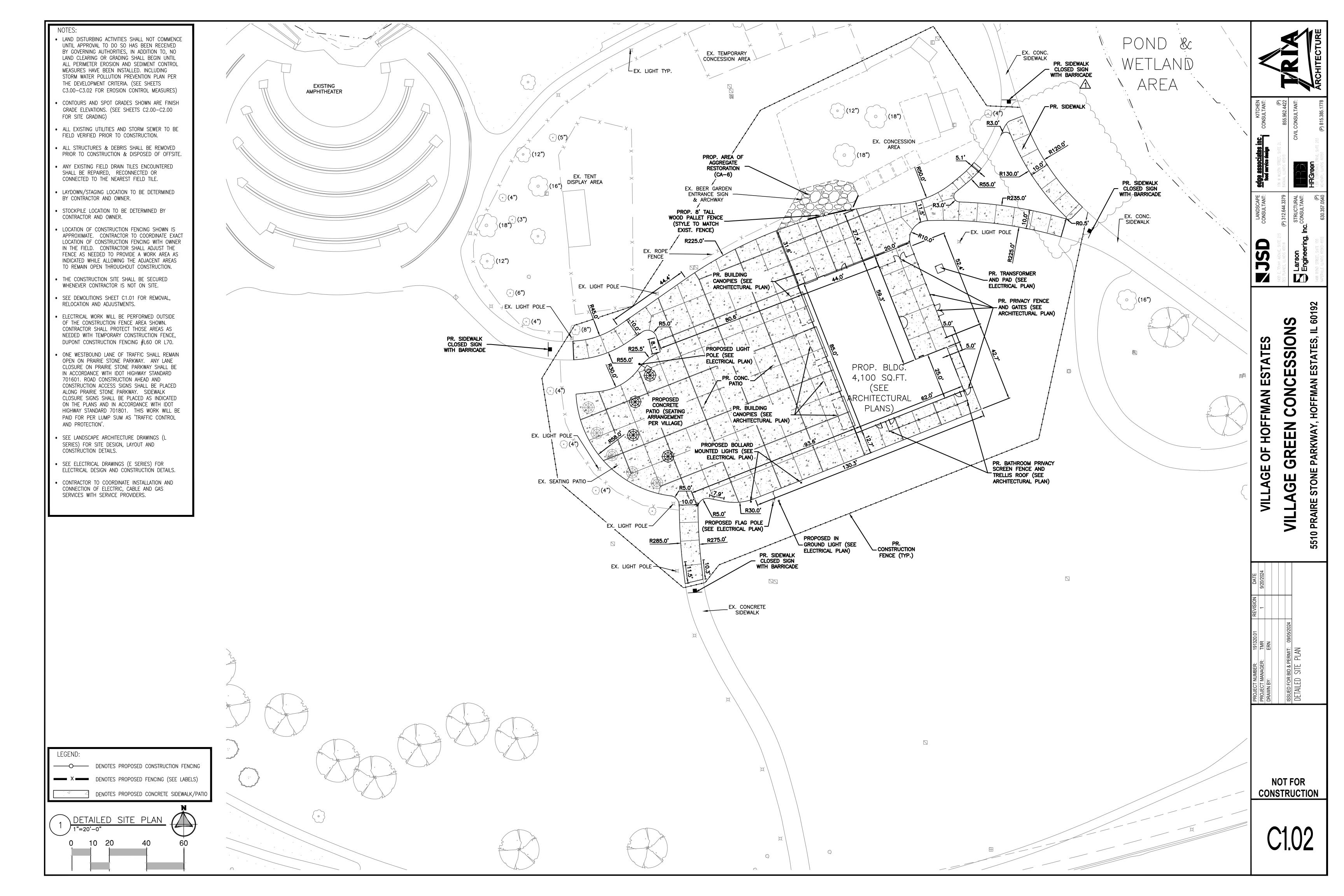
DENOTES TREE AND BRUSH PROTECTION

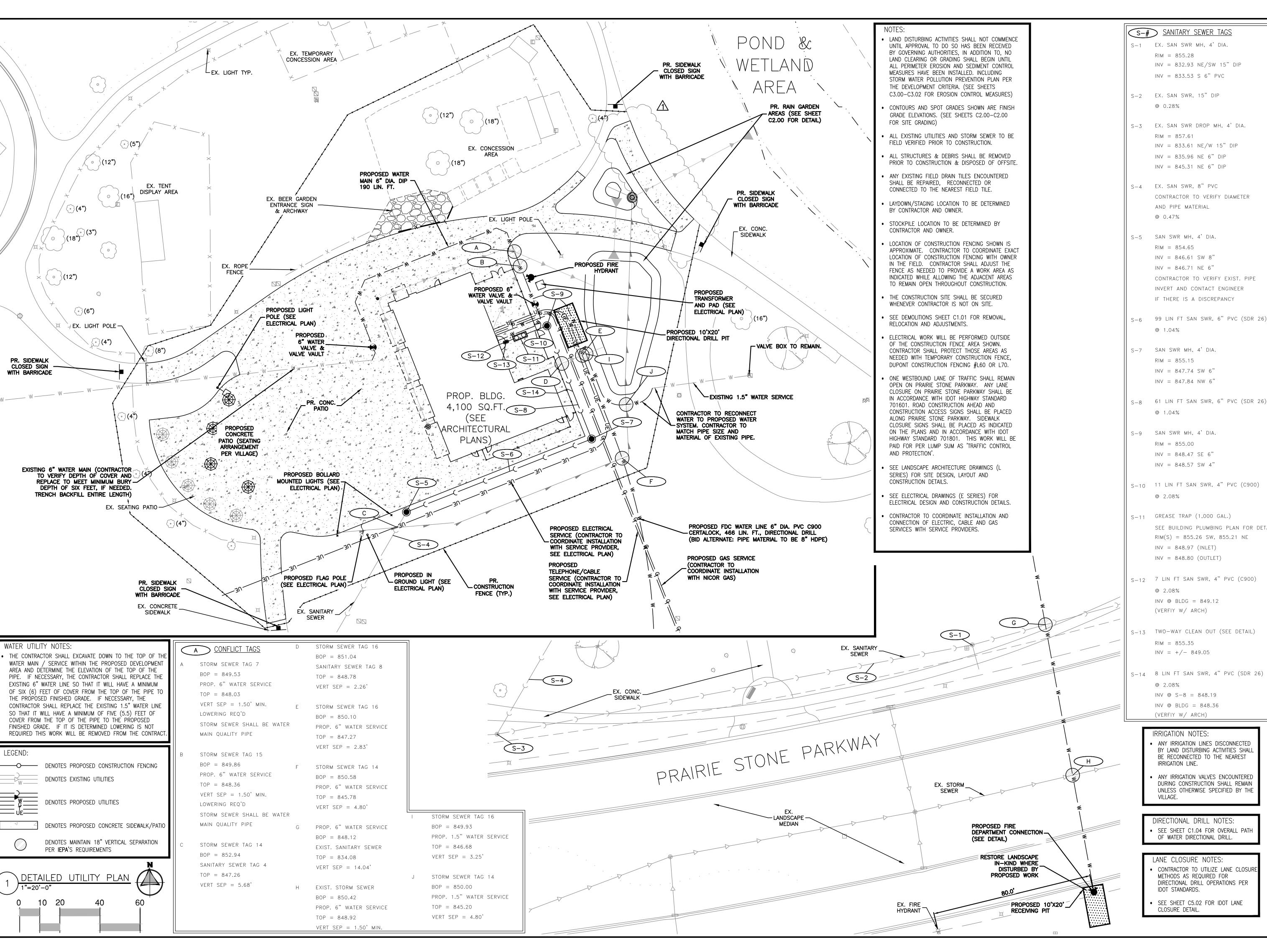
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INV = 833.61 NE/W 15" DIP

INV = 835.96 NE 6" DIPINV = 845.31 NE 6" DIP

S-4 EX. SAN SWR, 8" PVC CONTRACTOR TO VERIFY DIAMETER AND PIPE MATERIAL

S-5 SAN SWR MH, 4' DIA.

CONTRACTOR TO VERIFY EXIST. PIPE INVERT AND CONTACT ENGINEER IF THERE IS A DISCREPANCY

S-6 99 LIN FT SAN SWR, 6" PVC (SDR 26)

INV = 847.74 SW 6"

S-8 61 LIN FT SAN SWR, 6" PVC (SDR 26)

S-10 11 LIN FT SAN SWR, 4" PVC (C900)

S-11 GREASE TRAP (1,000 GAL.) SEE BUILDING PLUMBING PLAN FOR DETAILS

INV = 848.80 (OUTLET)

S-12 7 LIN FT SAN SWR, 4" PVC (C900)

INV @ BLDG = 849.12(VERFIY W/ ARCH)

S-13 TWO-WAY CLEAN OUT (SEE DETAIL)

INV = +/- 849.05

INV @ S-8 = 848.19

INV @ BLDG = 848.36

(VERFIY W/ ARCH)

ANY IRRIGATION LINES DISCONNECTED BY LAND DISTURBING ACTIVITIES SHALL BE RECONNECTED TO THE NEAREST

ANY IRRIGATION VALVES ENCOUNTERED DURING CONSTRUCTION SHALL REMAIN UNLESS OTHERWISE SPECIFIED BY THE

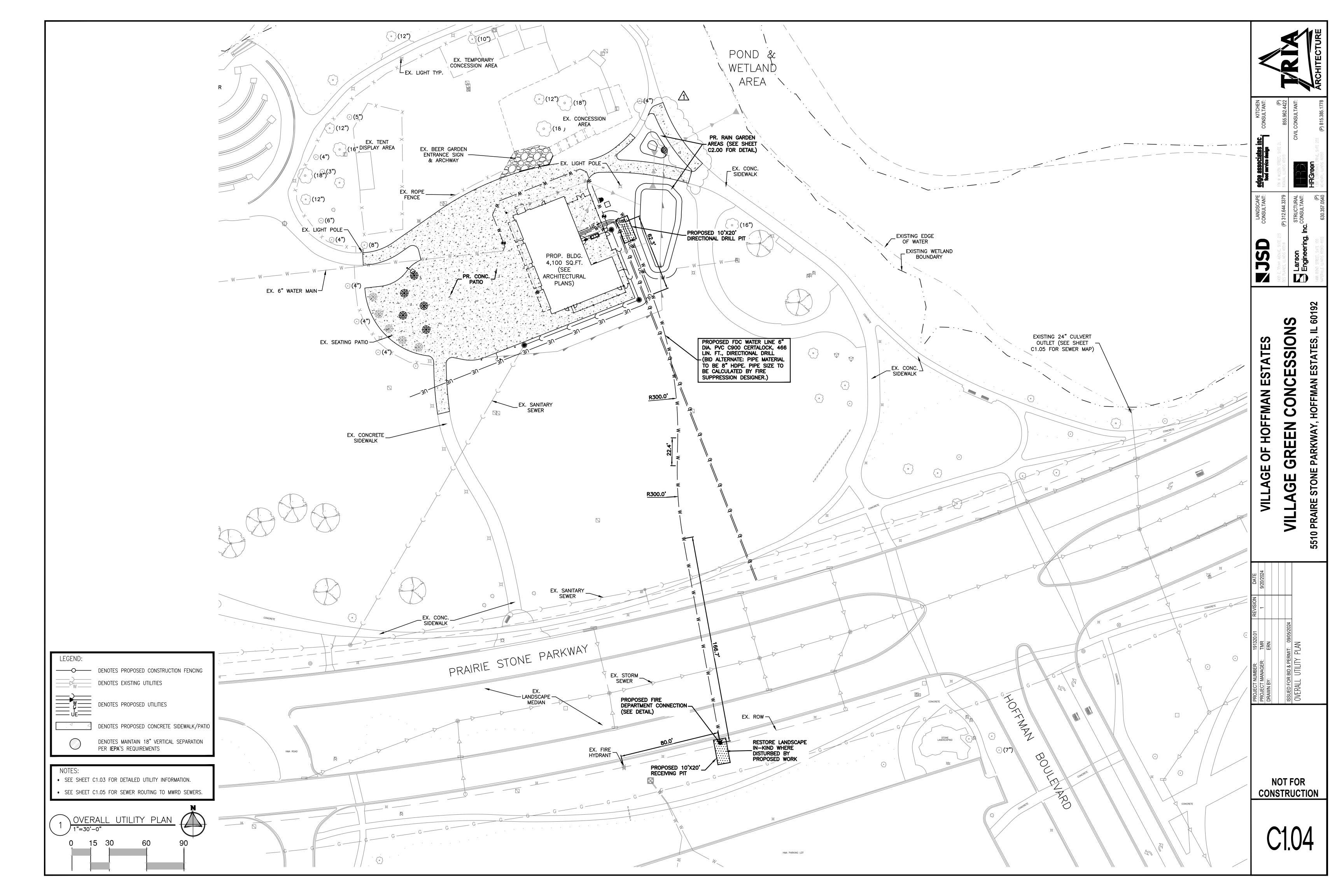
DIRECTIONAL DRILL NOTES: SEE SHEET C1.04 FOR OVERALL PATH OF WATER DIRECTIONAL DRILL.

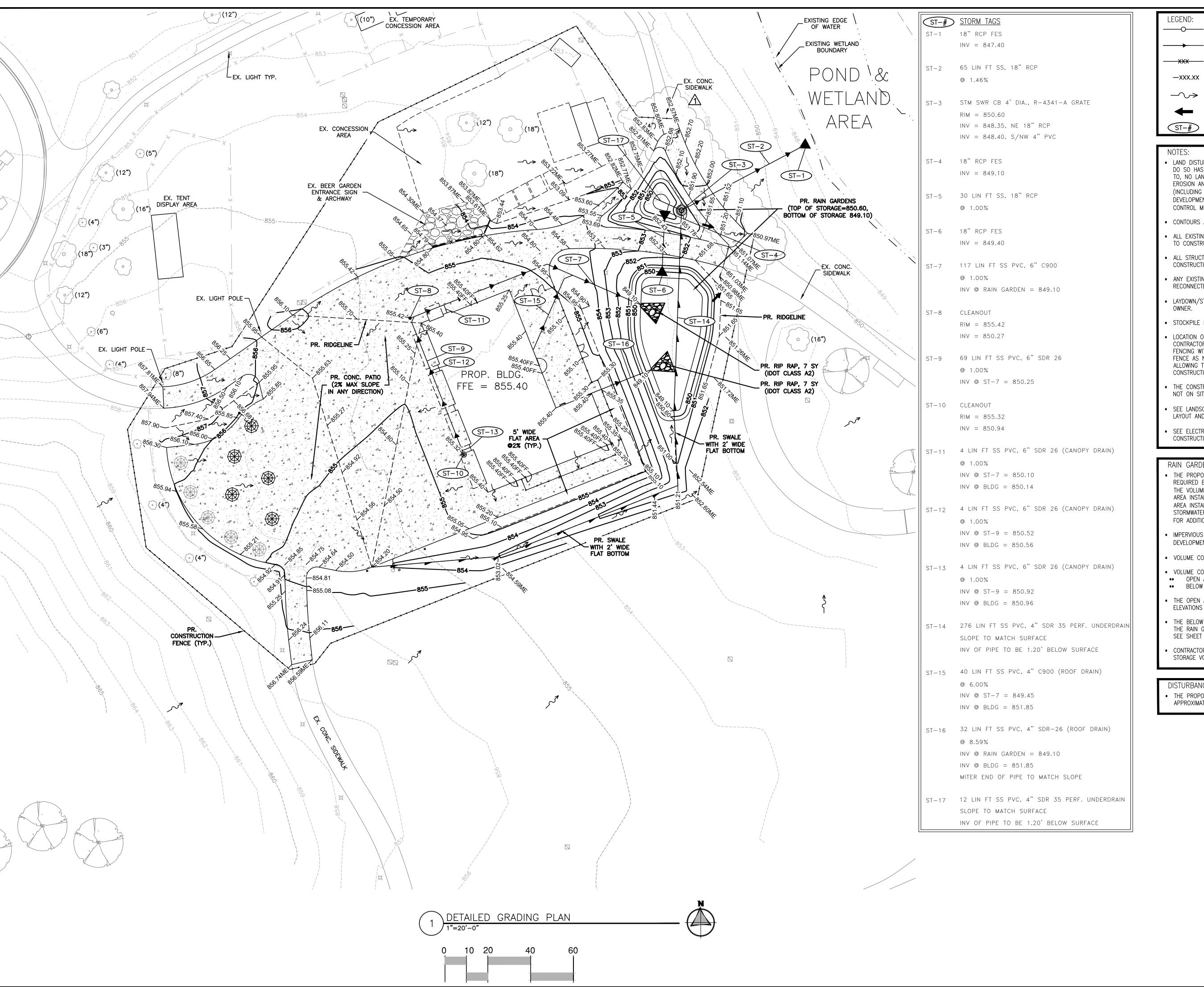
LANE CLOSURE NOTES:

CONTRACTOR TO UTILIZE LANE CLOSUR METHODS AS REQUIRED FOR DIRECTIONAL DRILL OPERATIONS PER

SEE SHEET C5.02 FOR IDOT LANE

NOT FOR CONSTRUCTION





DENOTES CONSTRUCTION FENCING DENOTES PROPOSED STORM SEWER **XXX** DENOTES CONTOUR ELEVATIONS **—XXX.XX** DENOTES SPOT ELEVATIONS

→ DENOTES DRAINAGE DIRECTION ARROW DENOTES OVERLAND OVERFLOW ROUTE

DENOTES STORM SEWER TAG

- LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL 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. (INCLUDING STORM WATER POLLUTION PREVENTION PLAN PER THE DEVELOPMENT CRITERIA.) SEE SHEET C3.00-C3.02 FOR EROSION CONTROL MEASURES)
- CONTOURS AND SPOT GRADES SHOWN ARE FINISH GRADE ELEVATIONS.
- ALL EXISTING UTILITIES AND STORM SEWER TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- ALL STRUCTURES & DEBRIS SHALL BE REMOVED PRIOR TO CONSTRUCTION & DISPOSED OF OFFSITE.
- ANY EXISTING FIELD DRAIN TILES ENCOUNTERED SHALL BE REPAIRED, RECONNECTED OR CONNECTED TO THE NEAREST FIELD TILE.
- LAYDOWN/STAGING LOCATION TO BE DETERMINED BY CONTRACTOR AND
- STOCKPILE LOCATION TO BE DETERMINED BY CONTRACTOR AND OWNER.
- LOCATION OF CONSTRUCTION FENCING SHOWN IS APPROXIMATE. CONTRACTOR TO COORDINATE EXACT LOCATION OF CONSTRUCTION FENCING WITH OWNER IN THE FIELD. CONTRACTOR SHALL ADJUST THE FENCE AS NEEDED TO PROVIDE A WORK AREA AS INDICATED WHILE ALLOWING THE ADJACENT AREAS TO REMAIN OPEN THROUGHOUT CONSTRUCTION.
- THE CONSTRUCTION SITE SHALL BE SECURED WHENEVER CONTRACTOR IS NOT ON SITE.
- SEE LANDSCAPE ARCHITECTURE DRAWINGS (L SERIES) FOR SITE DESIGN, LAYOUT AND CONSTRUCTION DETAILS.
- SEE ELECTRICAL DRAWINGS (E SERIES) FOR ELECTRICAL DESIGN AND CONSTRUCTION DETAILS.

RAIN GARDEN DATA:

- THE PROPOSED RAIN GARDENS SHALL FUNCTION AS VOLUME CONTROL REQUIRED BY MWRD DUE TO IMPERVIOUS AREA BEING INSTALLED ONSITE THE VOLUME REQUIRED IS EQUAL TO 1" OVER THE NEW IMPERVIOUS AREA INSTALLED BY THIS DEVELOPMENT AND THE REMAINING IMPERVIOUS AREA INSTALLED BY THE PREVIOUS DEVELOPMENT PHASE (SEE STORMWATER REPORT PREPARED BY HR GREEN FOR THIS DEVELOPMENT FOR ADDITIONAL DETAILS).
- IMPERVIOUS AREA INSTALLED BY PREVIOUS AND PROPOSED DEVELOPMENTS = 27,224 SQ. FT. (0.62 ACRE)
- VOLUME CONTROL REQUIRED = 27,224 / 12 = 2,269 CU. FT.
- VOLUME CONTROL PROPOSED = 3,288 CU. FT. •• OPEN AIR STORAGE = 2,781 CU. FT. •• BELOW GRADE STORAGE = 507 CU. FT.
- THE OPEN AIR STORAGE REPRESENTS VOLUME AVAILABLE BETWEEN THE ELEVATIONS OF 849.10 AND 850.60.
- THE BELOW GRADE STORAGE REPRESENTS THE VOLUME AVAILABLE WITHIN THE RAIN GARDEN SOILS PER THE MWRD BIORETENTION FACILITY DETAIL, SEE SHEET C5.00.
- CONTRACTOR SHALL COORDINATE WITH ENGINEER TO CONFIRM THE STORAGE VOLUME INSTALLED PRIOR TO COMPLETING CONSTRUCTION.

DISTURBANCE NOTES:

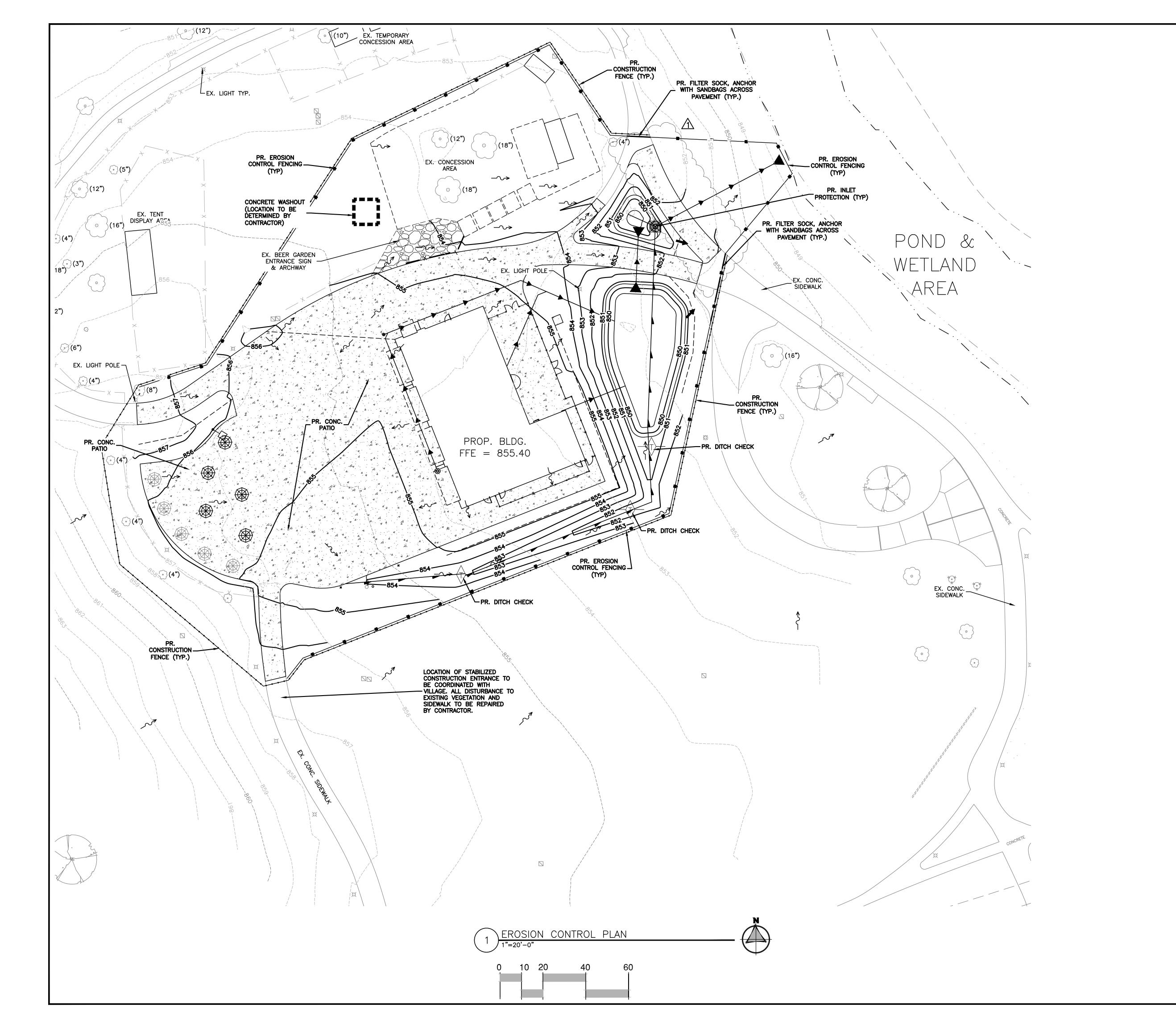
 THE PROPOSED LAND DISTURBING ACTIVITIES ARE ESTIMATED TO DISTURB APPROXIMATELY 0.92 ACRES OF AREA.

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LEGEND:

EROSION CONTROL BARRIER

INLET PROTECTION (FILTER BASKET)

DENOTES PROPOSED STORM SEWER

DENOTES PROPOSED DRAINAGE DIRECTION ARROW.

DENOTES PROPOSED DRAINAGE DIRECTION

DENOTES OVERLAND OVERFLOW ROUTE

CONCRETE WASHOUT

DITCH CHECK

NOTES:

- ALL EROSION, SEDIMENTATION AND DUST CONTROL SHALL FOLLOW ILLINOIS URBAN MANUAL, BEST MANAGEMENT PRACTICES AND THE VILLAGE OF HOFFMAN ESTATES MUNICIPAL CODE.
- 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.
- A MWRD WATERSHED MANAGEMENT PERMIT IS REQUIRED FOR THE PROJECT. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF THE MWRD PERMIT.
- ALL EXISTING UTILITIES AND STORM SEWER TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- STOCKPILE LOCATION TO BE DETERMINED IN THE FIELD BY THE OWNER AND SITE CONTRACTOR.
- ALL STOCKPILES MUST BE SEEDED IMMEDIATELY FOR EROSION CONTROL AND PROTECTED WITH SILT FENCING UNTIL THE SEEDING IS ESTABLISHED.
- SEE LANDSCAPE ARCHITECTURAL DRAWINGS (L SERIES) FOR SITE DESIGN, LAYOUT AND CONSTRUCTION DETAILS.
- THE INSTALLATION AND MAINTENANCE OF THE CONCRETE WASHOUT SHALL BE INCLUDED IN THE ITEMS BEING CONSTRUCTED.

TECTURE RICHITECTURE

OINTE 20. (P) 855.962.4422
CIVIL CONSULTANT:
(P) 815.385.1778

106 W WILSON STREET, SUITE 2L
BATAVIA, ILLINOIS 60510

RAL
INT:

INS 60018 (P) 312.644.3379

INS 60018 STRUCTURAL CONSULTANT:

CONSULTANT:

Larson Engineering, Inc. 1488 BOND STREET, SUITE 100 NAPERVILE ILLINOIS 80563-6503

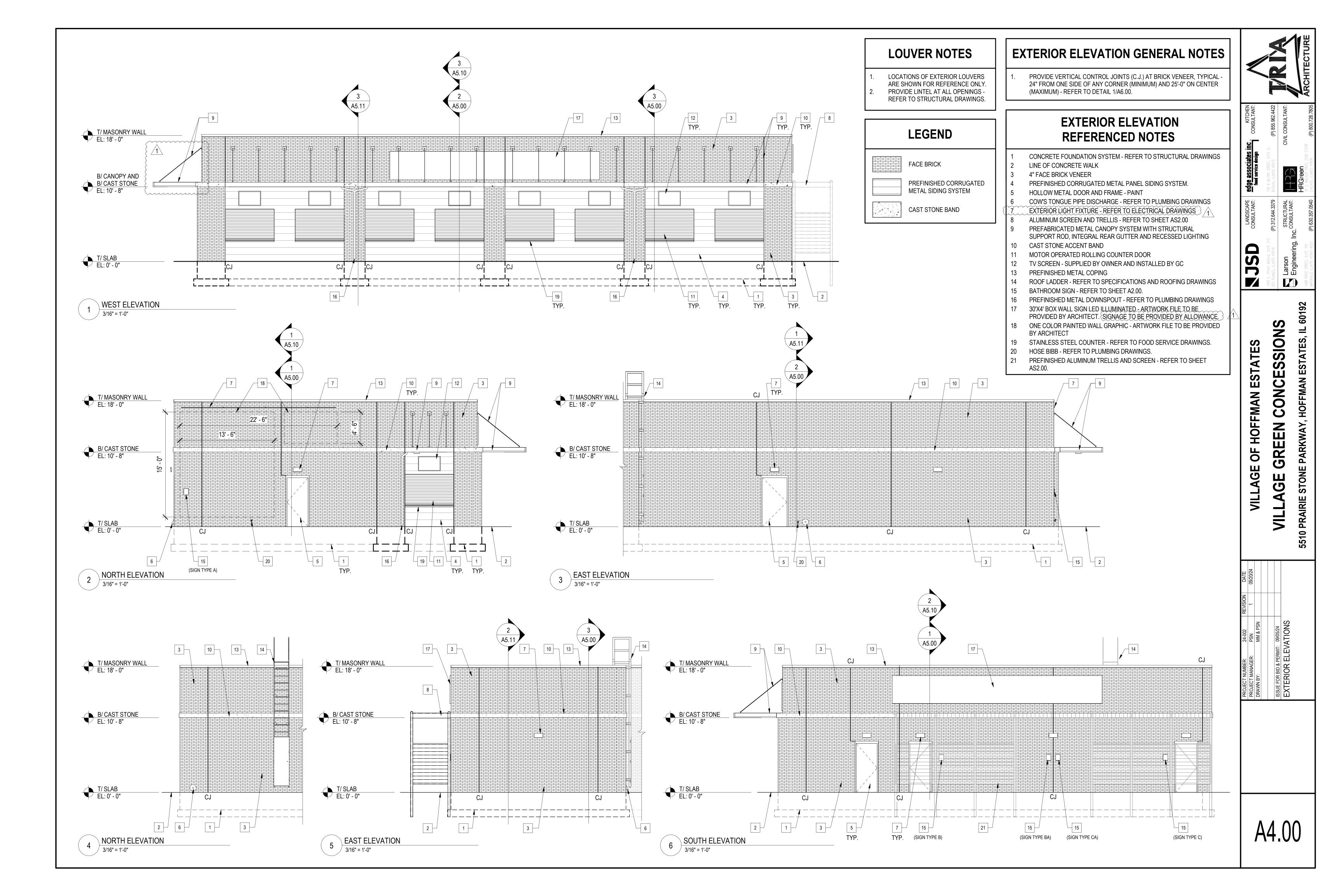
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ILLAGE GREEN CONCESSION

IN BY: ERN
D FOR BID & PERMIT: 09/05/2024
EROSION CONTROL PLAN

NOT FOR CONSTRUCTION

C3.00



	INICC EQUIPMEN	NT CONNECTION SCHEDULE		
	Load	Circuit		DISC. PROVIDED
ESCRIPTION RESER COOLER LIGHTS	OOM HP MCA W VOLT PHASE 5.0 A 600 W 120 V 1	Panel Number CONDUIT & WIRE SIZE B 1 2#12CU, 1#12CU GND IN 3/4"C	MOCP 20.0 A	BY Remarks EC
POWER PACKS	14.5 A 3016 W 208 V 1	B 3,5 3#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC NEMA 6-20P
POWER PACKS ER EVAPORATOR	9.5 A 1976 W 208 V 1 2.4 A 288 W 120 V 1	B 7,9 3#12CU, 1#12CU GND IN 3/4"C B 11 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC NEMA 6-20P CONTRACTOR OF THE PROPERTY OF TH
COOLER CONDENSING UNIT	18.3 A 208 V 3	B 13,15	25.0 A	EC J-BOX
COOLER LIGHTS & HEATER	15.0 A 1800 W 120 V 1	B 17 2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC J-BOX
EZER LIGHTS & HEATER DOLER EVAPORATOR	15.0 A 1800 W 120 V 1 2.4 A 288 W 120 V 1	B 19 2#12CU, 1#12CU GND IN 3/4"C B 21 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC J-BOX EC J-BOX
COOLER CONDENSING UNIT	11.4 A 208 V 1	B 23,25	20.0 A	EC J-BOX
K-IN FREEZER EVAPORATOR N FREEZER CONDENSING UNIT	2.4 A 288 W 120 V 1 17.0 A 208 V 1	B 27 2#12CU, 1#12CU GND IN 3/4"C B 29,31	20.0 A 20.0 A	EC J-BOX EC J-BOX
ELECTRIC SMOKER	57.0 A 11856 208 V 1	B 33,35 3#6CU, 1#10CU GND IN 3/4"C	60.0 A	EC J-BOX
B DOOR REFRIGERATOR UC	15.0 A 1800 W 120 V 1	B 41 2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC
SLASS DOOR MERCHANDISER SLASS DOOR MERCHANDISER	15.0 A 1800 W 120 V 1 15.0 A 1800 W 120 V 1	B 39 2#12CU, 1#12CU GND IN 3/4"C B 37 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC EC
ICE MAKER	20.0 A 4160 W 208 V 1	B 43,45 3#12CU, 1#12CU GND IN 3/4"C	30.0 A	EC J-BOX
1 DOOR REFRIGERATOR 1 DOOR REFRIGERATOR	10.0 A 1200 W 120 V 1 10.0 A 1200 W 120 V 1	B 47 2#12CU, 1#12CU GND IN 3/4"C B 49 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC EC
DOOR REFRIGERATOR	10.0 A 1200 W 120 V 1	B 51 2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC
1 DOOR REFRIGERATOR HOT FOOD WELLS	10.0 A 1200 W 120 V 1 19.0 A 4000 W 120 V 1	B 53 2#12CU, 1#12CU GND IN 3/4"C B 55 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC J-BOX
HOT FOOD WELLS	19.0 A 4000 W 120 V 1	B 57 2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC J-BOX 2
EATED CABINETS (MOBILE) EATED CABINETS (MOBILE)	11.3 A 1356 W 120 V 1 11.3 A 1356 W 120 V 1	B 59 2#12CU, 1#12CU GND IN 3/4"C B 61 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC EC
WORKTOP REFRIGERATOR WORKTOP REFRIGERATOR	10.0 A 1200 W 120 V 1	B 63 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC
SALAD TOP REFRIGERATOR	10.0 A 1200 W 120 V 1 15.0 A 1800 W 120 V 1	B 65 2#12CU, 1#12CU GND IN 3/4"C B 67 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC EC
SALAD TOP REFRIGERATOR HEATED DRAWERS	15.0 A 1800 W 120 V 1 3.8 A 450 W 120 V 1	B 69 2#12CU, 1#12CU GND IN 3/4"C B 71 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC EC
HEATED DRAWERS	3.8 A 450 W 120 V 1	B 73 2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC
HEATED DRAWERS HEATED DRAWERS	3.8 A 450 W 120 V 1 3.8 A 450 W 120 V 1	B 75 2#12CU, 1#12CU GND IN 3/4"C B 77 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC EC
EXHAUST HOOD	15.0 A 1800 W 120 V 1	B 79 2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC J-BOX
FIRE SUPPRESSION FRYER	15.0 A 1800 W 120 V 1 15.0 A 1800 W 120 V 1	B 81 2#12CU, 1#12CU GND IN 3/4"C B 83 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC J-BOX EC
FRYER	15.0 A 1800 W 120 V 1	B 2 2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC
FRYER FRYER	15.0 A 1800 W 120 V 1 15.0 A 1800 W 120 V 1	B 4 2#12CU, 1#12CU GND IN 3/4"C B 6 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC EC
DUMP STATION GRIDDLE	6.3 A 756 W 120 V 1 15.0 A 1800 W 120 V 1	B 8 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC EC
4 BURNER RANGE W/OVEN BASE	15.0 A 1800 W 120 V 1	B 10 2#12CU, 1#12CU GND IN 3/4"C B 12 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC EC
COMBI-OVEN DOUBLE HEATED DRAWERS	15.0 A 1800 W 120 V 1 7.4 A 900 W 120 V 1	B 14 2#12CU, 1#12CU GND IN 3/4"C B 20 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC J-BOX EC 3
DOUBLE HEATED DRAWERS	7.4 A 900 W 120 V 1	B 18 2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC
DOUBLE HEATED DRAWERS 3 DOOR COOLER	7.4 A 900 W 120 V 1 10.0 A 1200 W 120 V 1	B 16 2#12CU, 1#12CU GND IN 3/4"C B 22 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC EC
3 DOOR COOLER	10.0 A 1200 W 120 V 1	B 24 2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC
CHURRO WARMERS CHURRO WARMERS	10.0 A 1200 W 120 V 1 10.0 A 1200 W 120 V 1	B 26 2#12CU, 1#12CU GND IN 3/4"C B 28 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC 3.2
DISHMACHINE	46.0 A 16572 208 V 3	B 30,32,34 3#8CU, 1#10CU GND IN 3/4"C	50.0 A	EC J-BOX
S/S WITH PASS THRU LEDGE	15.0 A 1800 W 120 V 1	B 36 2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC
S/S WITH PASS THRU LEDGE S/S WITH PASS THRU LEDGE	15.0 A 1800 W 120 V 1 15.0 A 1800 W 120 V 1	B 38 2#12CU, 1#12CU GND IN 3/4"C B 40 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC EC
HEAT LAMP	15.0 A 1800 W 120 V 1	B 42 2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC J-BOX
HEAT LAMP HEAT LAMP	15.0 A 1800 W 120 V 1 15.0 A 1800 W 120 V 1	B 44 2#12CU, 1#12CU GND IN 3/4"C B 46 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC J-BOX EC J-BOX
HEAT LAMP	15.0 A 1800 W 120 V 1	B 48 2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC J-BOX
4 DOOR PASS THRU UC COOLER 4 DOOR PASS THRU UC COOLER	4.2 A 504 W 120 V 1 4.2 A 504 W 120 V 1	B 52 2#12CU, 1#12CU GND IN 3/4"C B 50 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC EC
MONITOR MONITOR	5.0 A 600 W 120 V 1 5.0 A 600 W 120 V 1	B 54 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC
POS	5.0 A 600 W 120 V 1	B 54 2#12CU, 1#12CU GND IN 3/4"C B 56 2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC EC
POS POS	5.0 A 600 W 120 V 1 5.0 A 600 W 120 V 1	B 58 2#12CU, 1#12CU GND IN 3/4"C B 60 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC 4
POS	5.0 A 600 W 120 V 1	B 62 2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC
POS POS	5.0 A 600 W 120 V 1 5.0 A 600 W 120 V 1	B 64 2#12CU, 1#12CU GND IN 3/4"C B 66 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC EC
POS	5.0 A 600 W 120 V 1	B 68 2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC
POS POS	5.0 A 600 W 120 V 1 5.0 A 600 W 120 V 1	B 70 2#12CU, 1#12CU GND IN 3/4"C B 72 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC EC
POS	5.0 A 600 W 120 V 1	B 74 2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC
POS POS	5.0 A 600 W 120 V 1 5.0 A 600 W 120 V 1	B 76 2#12CU, 1#12CU GND IN 3/4"C B 78 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC EC
POS	5.0 A 600 W 120 V 1	C 7 2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC
POS POS	5.0 A 600 W 120 V 1 5.0 A 600 W 120 V 1	C 5 2#12CU, 1#12CU GND IN 3/4"C C 3 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC EC
POS	5.0 A 600 W 120 V 1	C 1 2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC
POS POS	5.0 A 600 W 120 V 1 5.0 A 600 W 120 V 1	C 9 2#12CU, 1#12CU GND IN 3/4"C C 11 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC EC
POS	5.0 A 600 W 120 V 1	C 2 2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC
POS POS	5.0 A 600 W 120 V 1 5.0 A 600 W 120 V 1	C 4 2#12CU, 1#12CU GND IN 3/4"C C 6 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC EC
POS	5.0 A 600 W 120 V 1	C 8 2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC 5
POS POS	5.0 A 600 W 120 V 1 5.0 A 600 W 120 V 1	C 10 2#12CU, 1#12CU GND IN 3/4"C C 12 2#12CU, 1#12CU GND IN 3/4"C	20.0 A 20.0 A	EC EC
3 DOOR REFRIGERATOR UC	9.0 A 900 W 120 V 1	C 13 2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC (5.5)
DOOR REFRIGERATOR UC	9.0 A 900 W 120 V 1	C 15 2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC



- 1 ALL WORK MUST COMPLY WITH NEC, NFPA, LIFE SAFETY AND LOCAL APPLICABLE
- 2 ALL CONDUIT SHALL BE 1/2" EMT MINIMUM.
- 3 ALL WIRE SHALL BE MINIMUM OF #12 THHN COPPER.
- 4 SEE ARCHITECTURAL DRAWINGS/ELEVATIONS FOR EXACT LOCATIONS OF ALL RECEPTACLES AND DEVICES.
- 5 ALL BRANCH CIRCUIT CONDUCTOS FROM THE PANELBOARD TO THE FIRST OUTLET SHALL BE INCREASED TO THE NEXT LARGER SIZE WHERE THE LENGTH OF
- THE HOME RUN EXCEEDS 100'-0" ON 120V AND 208V CIRCUITS. 6 WHERE CONNECTED TO A 20A BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
- PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.
- REFER TO SECTION 26 0519 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.
- CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRIÇAL EQUIPMENT SCHEDULE.
- 10 POWER AND DATA WALL OUTLEST/JUNCTION BOXES MUST BE PROPERLY ALIGNED BETWEEN STUDS USING CADDY BRACKET OR APPROVED EQUAL WITH SPACING
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT.
- 12 LOW VOLTAGE DESIGN SHALL BE DESIGN BUILD BY LICENSED LOW VOLTAGE CONTRACTOR. DEVICES, LOCATIONS AND QUANTITIES OF ENGINEERED DRAWINGS ARE ANTICIPATED AND ARE FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING EMPTY CONDUIT WITH PULL STRING. COORDINATE FINAL LAYOUT WITH LOW VOLTAGE CONTRACTOR PRIOR TO COMMENCING WORK.
- 13 FIRE ALARM DESIGN SHALL BE BY LICENSED FIRE ALARM CONTRACTOR. DEVICES, LOCATIONS AND QUANTITIES ON ENGINEERED DRAWINGS ARE ANTICIPATED AND ARE FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING EMPTY CONDUIT WITH PULL STRING. COORDINATE FINAL LAYOUT WITH FIRE ALARM CONTRACTOR PRIOR TO COMMENCING WORK.
- 14 ELECTRICAL CONTRACTOR SHALL COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR FINAL DEVICE LOCATIONS. TOTALS AND LOCATIONS OF TAMPER SWTICHES, SUPERVISORY SWITCHES AND FLOW SWITCHES. INTEGREATION WITH HVAC AND OTHER REQUIRED DEVICES AND CONTROLS FOR COMPLETE AND OPERABLE FIRE ALARM SYSTEM. FIRE AARM DRAWINGS SHALL BE A SEPARATE PACKAGE FULLY DESIGNED BY LICENSED FIRE ALARM CONTRACTOR FOR SUBMITTAL TO AHJ.

60192 SIONS = S CE 0

ESTATE

HOFFMAN

OF

VILLAGE

PARKWAY, GREEN 5510 PRAIRIE STONE VILLAGE

ADDENDUM #1

JASON ANDEJESKI 062-065380

1 ELECTRICAL POWER PLAN
E1.00 3/16" = 1'-0"

1488 Bond Street, Suite 100
Naperville, Illinois 60563-6503
(P) 630.357.0540 (F) 630.357.0164
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Branch Panel: B

Location: MECH. ROOM 101 Supply From: T1 Mounting: SURFACE Enclosure: NEMA1

Volts: 208Y/120 Phases: 3 Wires: 4 **Ground Bus:**

A.I.C. Rating: 10,000 AMPS SYMMETRICAL Mains Type: MLO Bus Rating: 400 AMPS

СС		Wire Size	Loa	Ratin	Pole	Λ.	В	С	^	В	С	Pole	Ratin	Loa	Wire Size	СС
T	Circuit Description	vvire Size	d	g	S	Α	В	C	A	В		S	g	d	Circuit Description	
1	BEER CLR LTS	1-#12, 1-#12, 1-#12	Ot	_	1	600 VA			1800 VA			1		KT	1-#12, 1-#12, 1-#12 FRYER	2
3	GLYCOL POWER	0 440 4 440 4 440	I/T	20.0.4			1508 VA			1800 VA		1	20.0 A	KT	1-#12, 1-#12, 1-#12 FRYER	4
5	GLYCOL POWER	2-#12, 1-#12, 1-#12	KI	. 20.0 A	2			1508 VA			1800 VA	1	20.0 A	KT	1-#12, 1-#12, 1-#12 FRYER	6
7	GLYCOL POWER	0 #10 1 #10 1 #10	VΤ	20.0.4	2	988 VA			756 VA			1	20.0 A	KT	1-#12, 1-#12, 1-#12 DUMP STATION	8
9	GLYCOL POWER	2-#12, 1-#12, 1-#12	K1	. 20.0 A	2		988 VA			1800 VA		1	20.0 A	KT	1-#12, 1-#12, 1-#12 GRIDDLE	10
11	BEER COOLER	1-#12, 1-#12, 1-#12	KT	. 20.0 A	1			288 VA			1800 VA	1	20.0 A	KT	1-#12, 1-#12, 1-#12 4 BURNER RNAGE	12
13	BEER COOLER	2-#12, 1-#12, 1-#12	Ot	20.0.4	2	1903 VA			1800 VA			1	20.0 A	KT	1-#12, 1-#12, 1-#12 COMBI-OVEN	14
15		Z-#1Z, 1-#1Z, 1-#1Z	Ot	20.0 A			1903 VA			900 VA		1	20.0 A	KT	1-#12, 1-#12, 1-#12 DOUBLE HEATED	16
	COOLER LTS&HTR	1-#12, 1-#12, 1-#12						1800 VA			900 VA	1	20.0 A	KT	1-#12, 1-#12, 1-#12 DOUBLE HEATED	18
	FREEZER	1-#12, 1-#12, 1-#12				1800 VA			900 VA			1			1-#12, 1-#12, 1-#12 DOUBLE HEATED	20
	COOLER EVAP	1-#12, 1-#12, 1-#12	KT	. 20.0 A	1		288 VA			1200 VA		1			1-#12, 1-#12, 1-#12 3 DOOR COOLER	22
23	COOLER	2-#12, 1-#12, 1-#12	Ot	20 0 A	2			1186 VA			1200 VA	1			1-#12, 1-#12, 1-#12 3 DOOR COOLER	24
25		,				1186 VA			1200 VA			1			1-#12, 1-#12, 1-#12 CHURRO WARMER	
	FREEZER EVAP	1-#12, 1-#12, 1-#12	KT	. 20.0 A	1		288 VA			1200 VA		1	20.0 A	KT	1-#12, 1-#12, 1-#12 CHURRO WARMER	
29	FREEZER	2-#12, 1-#12, 1-#12	Ot	20 0 A	2			1768 VA			5524 VA			KTC.		30
31		2 // 12, 1 // 12, 1 // 12	J	20.071	_	1768 VA			5524 VA			3	20.0 A	Н	3-#12, 1-#12, 1-#12 DISH MACHINE	32
33	ELECTRIC SMOKER	2-#4, 1-#4, 1-#10	KT	60.0 A	2		5928 VA			5524 VA						34
35		, ,						5928 VA			1800 VA	1			1-#12, 1-#12, 1-#12 S/S WITH PASS	36
_	GLASS DOOR	1-#12, 1-#12, 1-#12				1800 VA			1800 VA	1000111		1			1-#12, 1-#12, 1-#12 S/S WITH PASS	38
	GLASS DOOR	1-#12, 1-#12, 1-#12					1800 VA	10001/4		1800 VA	400014	1			1-#12, 1-#12, 1-#12 S/S WITH PASS	40
	3 DOOR UC REF	1-#12, 1-#12, 1-#12	K1	. 20.0 A	1	00001/4		1800 VA	1000111		1800 VA	1			1-#12, 1-#12, 1-#12 HEAT LAMP	42
43	ICE MAKER	2-#12, 1-#12, 1-#12	KT	. 20.0 A	2	2080 VA	00001/4		1800 VA	4000 \ / 4		1			1-#12, 1-#12, 1-#12 HEAT LAMP	44
45		,					2080 VA	4000 \ / 4		1800 VA	4000 \ / 4	1			1-#12, 1-#12, 1-#12 HEAT LAMP	46
	1 DOOR REF	1-#12, 1-#12, 1-#12				4000 \ / 4		1200 VA	5041/4		1800 VA	1			1-#12, 1-#12, 1-#12 HEAT LAMP	48
	1 DOOR REF	1-#12, 1-#12, 1-#12				1200 VA	1200 VA		504 VA	504 VA		1			1-#12, 1-#12, 1-#12 PASS THRU UC	50 52
	1 DOOR REF 1 DOOR REF	1-#12, 1-#12, 1-#12					1200 VA	1200 VA		504 VA	1200 VA	1			1-#12, 1-#12, 1-#12 PASS THRU UC	54
	HOT FOOD WELL	1-#12, 1-#12, 1-#12				4000 VA		1200 VA	600 VA		1200 VA	1	20.0 A		1-#12, 1-#12, 1-#12 MONITOR	56
	HOT FOOD WELL	1-#12, 1-#12, 1-#12 1-#12, 1-#12, 1-#12				4000 VA	4000 VA		600 VA	600 VA		1	20.0 A 20.0 A		1-#12, 1-#12, 1-#12 POS 1-#12, 1-#12, 1-#12 POS	58
	HEATED CABINET						4000 VA	1356 VA		600 VA	600 VA	1	20.0 A		1-#12, 1-#12, 1-#12 POS	60
	HEATED CABINET	1-#12, 1-#12, 1-#12 1-#12, 1-#12, 1-#12				1356 VA		1330 VA	600 VA		600 VA	1	20.0 A		1-#12, 1-#12, 1-#12 POS	62
_	WORKTOP REF	1-#12, 1-#12, 1-#12				1330 VA	1200 VA		000 VA	600 VA		1	20.0 A		1-#12, 1-#12, 1-#12 POS	64
	WORKTOP REF	1-#12, 1-#12, 1-#12					1200 VA	1200 VA		000 VA	600 VA	1	20.0 A		1-#12, 1-#12, 1-#12 POS	66
	SALAD TOP REF	1-#12, 1-#12, 1-#12				1800 VA		1200 VA	600 VA		000 VA	1	20.0 A		1-#12, 1-#12, 1-#12 POS	68
	SALAD TOP REF	1-#12, 1-#12, 1-#12				1000 VA	1800 VA		000 VA	600 VA		1	20.0 A		1-#12, 1-#12, 1-#12 POS	70
	HEATED DRAWER	1-#12, 1-#12, 1-#12					1000 VA	450 VA		000 VA	600 VA	1	20.0 A		1-#12, 1-#12, 1-#12 POS	72
	HEATED DRAWER	1-#12, 1-#12, 1-#12				450 VA		+30 VA	600 VA		000 VA	1	20.0 A		1-#12, 1-#12, 1-#12 POS	74
	HEATED DRAWER	1-#12, 1-#12, 1-#12				+00 VA	450 VA		000 VA	600 VA		1	20.0 A		1-#12, 1-#12, 1-#12 POS	76
	HEATED DRAWER	1-#12, 1-#12, 1-#12					100 7/1	450 VA		333 V/ (600 VA	1	20.0 A		1-#12, 1-#12, 1-#12 POS	78
	EXHAUST HOOD	1-#12, 1-#12, 1-#12				1800 VA		100 171	14220 VA		555 V/ t	<u>'</u>	20.07			80
	FIRE SUPRESSION	1-#12, 1-#12, 1-#12				1000 171	1800 VA			14276 VA		3	20.0 A	Othe	3-#12, 1-#12, 1-#12 PANEL 'C'	82
	FRYER	1-#12, 1-#12, 1-#12					1000 171	1800 VA			15564 VA	1	20.071	r;	· · · · · · · · · · · · · · · · · · ·	84
30		· · · · -, · · · · · -, · · · · · · -	1	.,20.071	Tot	5543	5 \/Δ	5843	7 \/Δ	5772					1	
					101	5545	5 VA	3043	'	3112	2 V /\	_				

462.0 A 489.9 A 483.9 A **Load Classification Estimated Demand** Panel Totals **Connected Load Demand Factor** 29033 VA 18871 VA Total Conn. Load: 171593 VA KTCH 109720 VA 65.00% 71318 VA 2880 VA 125.00% 3600 VA Total Est. Demand: 116739 VA Total Conn.: 476.3 A 1800 VA 65.00% 1170 VA 24560 VA 70.36% 17280 VA Total Est. Demand: 324.0 A 3600 VA 125.00% 4500 VA

Motor = LARGEST MOTOR
MN = MOTOR (NON-SEASONAL)
L = LIGHTING (CONTINUOUS)
R = RECEPTAGLE

C = CONTINUOUS
PN = POWER NON-SEASONAL (NON-CONTINUOUS)
VT = VERTICAL TRANSPORTATION

Branch Panel: EX PANEL 'A'

Location: MECH. ROOM 101 Supply From: Mounting: SURFACE

Enclosure: NEMA 3R

Volts: 480Y/277 Phases: 3 Wires: 4 **Ground Bus:**

A.I.C. Rating: 14,000 AMPS SYMMETRICAL Mains Type: MAIN CB Mains Rating: 200.0 A Bus Rating: 200 AMPS

ССТ	Circuit Description	Wire Size	Load Type	Rating	Poles	A	В	С	Α	В	С	Poles	Rating	Load Type	VVIIE SIZE	Circuit Description	ССТ
1	EXISTING BOLLARDS	1-#12, 1-#12, 1-#12	Oth	20.0 A	1	75 VA			4800 VA			1	20.0 A	Other	1-#12, 1-#12, 1-#12	EUH-1	2
3	LITES	1-#12, 1-#12, 1-#12	LIT	20.0 A	1		325 VA			4800 VA		1	20.0 A	Other	1-#12, 1-#12, 1-#12	EUH-2	4
5	LITES	1-#12, 1-#12, 1-#12	LITES	20.0 A	1			733 VA			3325 VA						6
7	LITES	1-#12, 1-#12, 1-#12	LITES	20.0 A	1	420 VA			3325 VA			3	20.0 A	Other	3-#12, 1-#12, 1-#12	MUA-1	8
9	LITES	1-#12, 1-#12, 1-#12	LITES	20.0 A	1		507 VA			3325 VA							10
11	LITES	1-#12, 1-#12, 1-#12	LITES	20.0 A	1			11 VA			1912 VA			Kitobo			12
13						400 VA			1912 VA			3	20.0 A	rittie	3-#12, 1-#12, 1-#12	KEF-1	14
15	<u></u>	<u>3</u> -#12, <u>1</u> -#12, 1 <u>-#</u> 12	Other 1	20. <u>0 A</u>	3_		400 VA			1912 VA				"			16
H			✓			\sim		400 VA									18
19	TIMECLOCK	1-#12, 1-#12, 1-#12	L	20.0 A	1	600 VA											20
21		$\mathcal{M}_{\mathcal{M}}$	لر		\												22
23																	24
25																	26
27																	28
29																	30
31																	32
33																	34
35																	36
37									55435					Othor			38
39										58437		3	225.0 A	KT	3-#300, 1-#300, 1-#4	T1	40
41											57722			131			42
				Total	Load:	6696	7 VA	6970	06 VA	6410)3 VA						

	Total Amps: 243.4 A	253.2 A	231.4 A				
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel 1	Panel Totals		
Lighting	33 VA	100.00%	33 VA				
Other	49850 VA	65.00%	32403 VA	Total Conn. Load:	200775 VA		
KTCH	109720 VA	65.00%	71318 VA	Total Est. Demand:	139285 VA		
L	3480 VA	125.00%	4350 VA	Total Conn.:	241.5 A		
KT	1800 VA	65.00%	1170 VA	Total Est. Demand:	167.5 A		
R	24560 VA	70.36%	17280 VA				
LITES	5596 VA	125.00%	6995 VA				
Kitchen	5736 VA	100.00%	5736 VA				

Motor = LARGEST MOTOR
MN = MOTOR (NON-SEASONAL)
L = LIGHTING (CONTINUOUS)

R = RECEPTACLE C = CONTINUOUS

PN = POWER NON-SEASONAL (NON-CONTINUOUS)
VT = VERTICAL TRANSPORTATION

Branch Panel: C

Location: MECH. ROOM 101 Supply From: B Mounting: SURFACE Enclosure: NEMA1

Volts: 208Y/120 Phases: 3 **Ground Bus:**

A.I.C. Rating: 10,000 AMPS SYMMETRICAL Mains Type: MLO

CC T Circuit Description	Wire Size	Loa d	Ratin g	Pole s	Α	В	С	Α	В	С	Pole s	Ratin g	Loa d	Wire Size	Circuit Description	CC T
1 POS	1-#12, 1-#12, 1-#1	2 R	20.0 A	1	600 VA			600 VA			1	20.0 A	R	1-#12, 1-#12, 1-#12	POS	2
3 POS	1-#12, 1-#12, 1-#1		20.0 A	1		600 VA			600 VA		1	20.0 A		1-#12, 1-#12, 1-#12		4
5 POS	1-#12, 1-#12, 1-#1		20.0 A	1			600 VA			600 VA	1	20.0 A		1-#12, 1-#12, 1-#12		6
7 POS	1-#12, 1-#12, 1-#1		20.0 A	1	600 VA			600 VA			1	20.0 A	R	1-#12, 1-#12, 1-#12	POS	8
9 POS	1-#12, 1-#12, 1-#1		20.0 A	1		600 VA			600 VA		1	20.0 A	R	1-#12, 1-#12, 1-#12		10
11 POS	1-#12, 1-#12, 1-#1	2 R	20.0 A	1			600 VA			600 VA	1	20.0 A	R	1-#12, 1-#12, 1-#12	POS	12
13 3 DOOR UC REF	1-#12, 1-#12, 1-#1	2 KT	20.0 A	1	900 VA			540 VA			1	20.0 A	R	1-#12, 1-#12, 1-#12	RECEPT - ROOF	14
15 3 DOOR UC REF	1-#12, 1-#12, 1-#1	2 KT	20.0 A	1		900 VA			360 VA		1	20.0 A	R	1-#12, 1-#12, 1-#12	RECEPT - PANEL	16
17 10 HP-1	0 440 4 440 4 44	2 04	20.0.4	_			3120 VA			720 VA	1	20.0 A	R	1-#12, 1-#12, 1-#12	RECEPT	18
19 HP-1	2-#12, 1-#12, 1-#1	ا	20.0 A	2	3120 VA			900 VA			1	20.0 A	R	1-#12, 1-#12, 1-#12	RECEPTS - CONV	20
21 HP-2	2-#12, 1-#12, 1-#1	2 0+	20.0.4	2		3120 VA			600 VA		1	20.0 A	Ot	1-#12, 1-#12, 1-#12	WH-1	22
23 HP-2	Z-#1Z, 1-#1Z, 1-#1	ا	20.0 A	2			3120 VA			528 VA	1	20.0 A	Ot	1-#12, 1-#12, 1-#12	RCP-1	24
25 TTB	1-#12, 1-#12, 1-#1	2 R	20.0 A	1	720 VA			1440 VA			1	20.0 A	L	1-#12, 1-#12, 1-#12	SIGNAGE	26
27 F-1	1-#12, 1-#12, 1-#1	2 Ot	20.0 A	1		1656 VA			1440 VA		1	20.0 A	L	1-#12, 1-#12, 1-#12	SIGNAGE	28
29 F-2	1-#12, 1-#12, 1-#1	2 Ot	20.0 A	1			1656 VA			400 VA	1	20.0 A	R	1-#12, 1-#12, 1-#12	RECEPT - WINDOW	30
31 OUTDOOR TV	1-#12, 1-#12, 1-#1	2 R	20.0 A	1	400 VA			400 VA			1	20.0 A	R	1-#12, 1-#12, 1-#12	RECEPT - WINDOW	32
33 OUTDOOR TV	1-#12, 1-#12, 1-#1	2 R	20.0 A	1		400 VA			400 VA		1	20.0 A	R	1-#12, 1-#12, 1-#12	RECEPT - WINDOW	34
35 OUTDOOR TV	1-#12, 1-#12, 1-#1	2 R	20.0 A	1			400 VA			400 VA	1	20.0 A	R	1-#12, 1-#12, 1-#12	RECEPT - WINDOW	36
37 OUTDOOR TV	1-#12, 1-#12, 1-#1	2 R	20.0 A	1	400 VA			720 VA			1	20.0 A	R	1-#12, 1-#12, 1-#12	RECEPTS - CONV	38
39 DATA RACK	1-#12, 1-#12, 1-#1	2 R	20.0 A	1		360 VA			700 VA		1	20.0 A	KT	1-#12, 1-#12, 1-#12	SHUTTER	40
41 DATA RACK	1-#12, 1-#12, 1-#1	2 R	20.0 A	1			360 VA			700 VA	1	20.0 A	KT	1-#12, 1-#12, 1-#12	SHUTTER	42
43 SHUTTER	1-#12, 1-#12, 1-#1			1	700 VA			700 VA			1			1-#12, 1-#12, 1-#12		44
45 SHUTTER	1-#12, 1-#12, 1-#1					700 VA			700 VA		1	20.0 A		1-#12, 1-#12, 1-#12		46
47 SHUTTER	1-#12, 1-#12, 1-#1						700 VA			700 VA	1	20.0 A		1-#12, 1-#12, 1-#12		48
49 SHUTTER	1-#12, 1-#12, 1-#1				700 VA			180 VA			1	20.0 A	R	1-#12, 1-#12, 1-#12	RECEPT - LIGHT	50
51 RECEPTS - WIFI	1-#12, 1-#12, 1-#1		20.0 A	1		540 VA										52
53 RECEPTS - WIFI	1-#12, 1-#12, 1-#1	2 R	20.0 A	1			360 VA									54
55																56
57																58
59																60
61																62
63																64

	Tot 118.5 A	119.0 A	129.8 A			
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	Totals	
Other	16920 VA	65.00%	10998 VA			
KTCH	8100 VA	65.00%	5265 VA	Total Conn. Load:	44060 VA	
L	2880 VA	125.00%	3600 VA	Total Est. Demand:	32943 VA	
R	16160 VA	80.94%	13080 VA	Total Conn.:	122.3 A	
				Total Est. Demand:	91.4 A	

Motor = LARGEST MOTOR
MN = MOTOR (NON-SEASONAL)
L = LIGHTING (CONTINUOUS)

R = RECEPTACLE C = CONTINUOUS

PN = POWER NON-SEASONAL (NON-CONTINUOUS)
VT = VERTICAL TRANSPORTATION



NJSD

60192

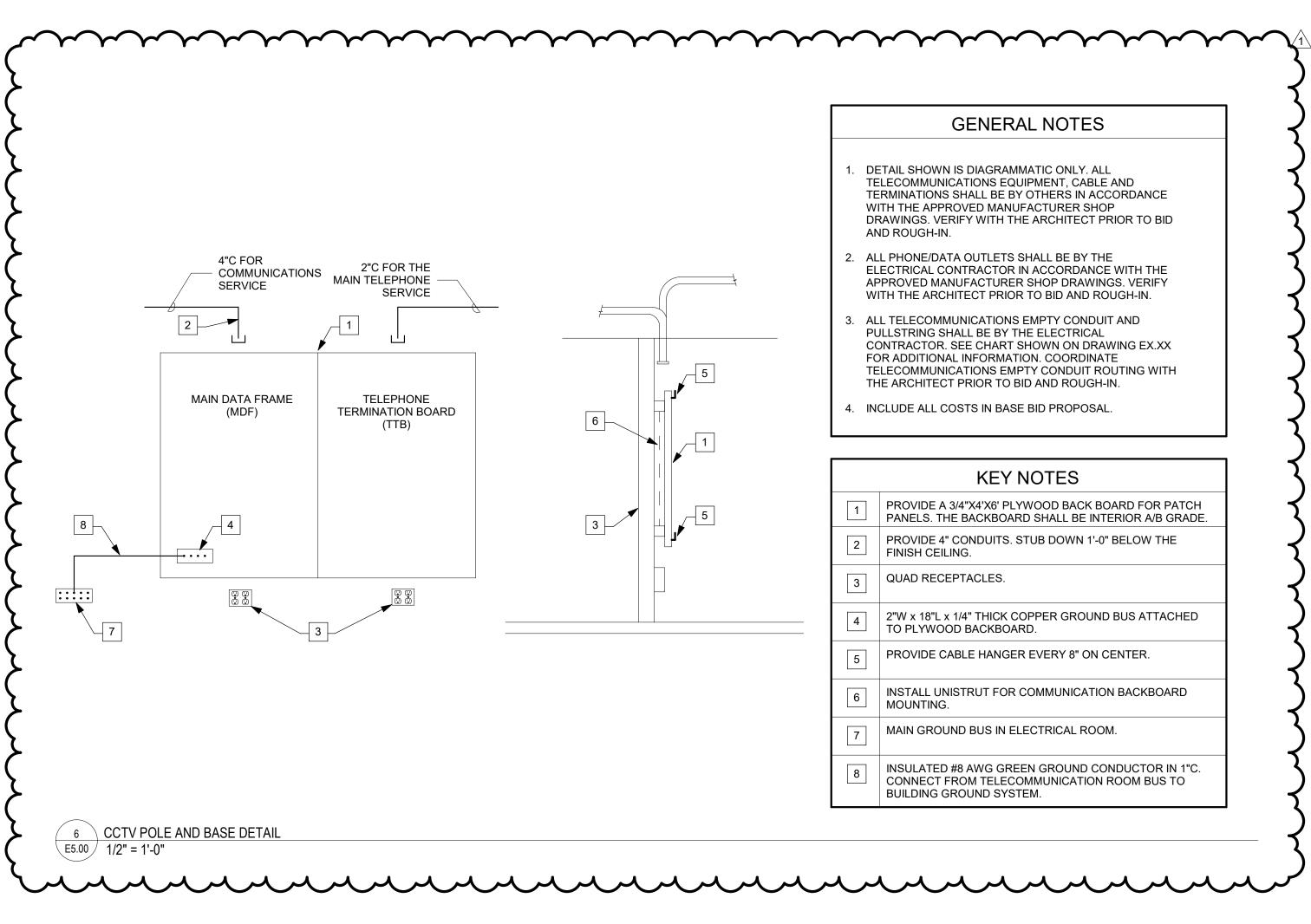
CONCESSIONS HOFFMAN ESTATES, IL OF HOFFMAN ESTATES PARKWAY, GREEN VILLAGE STONE VILLAGE 5510 PRAIRIE

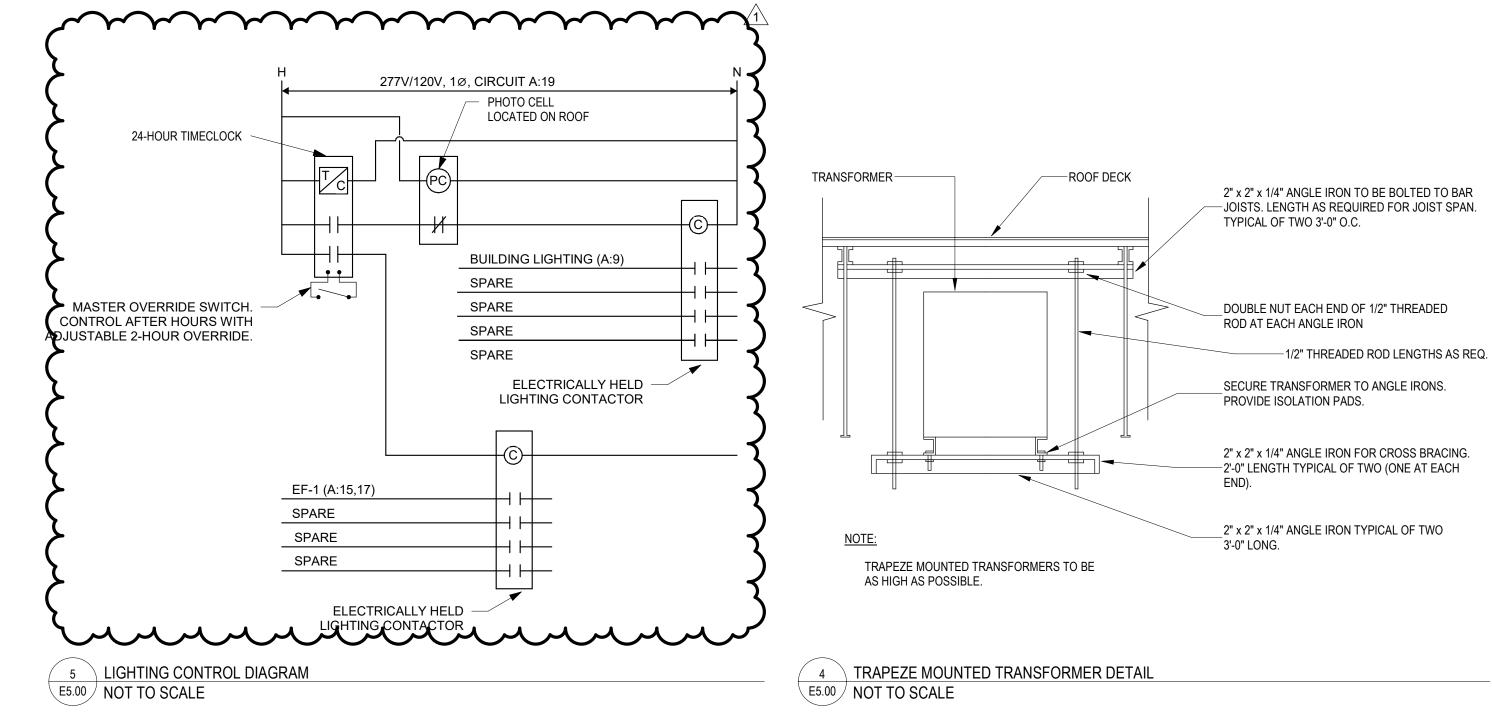
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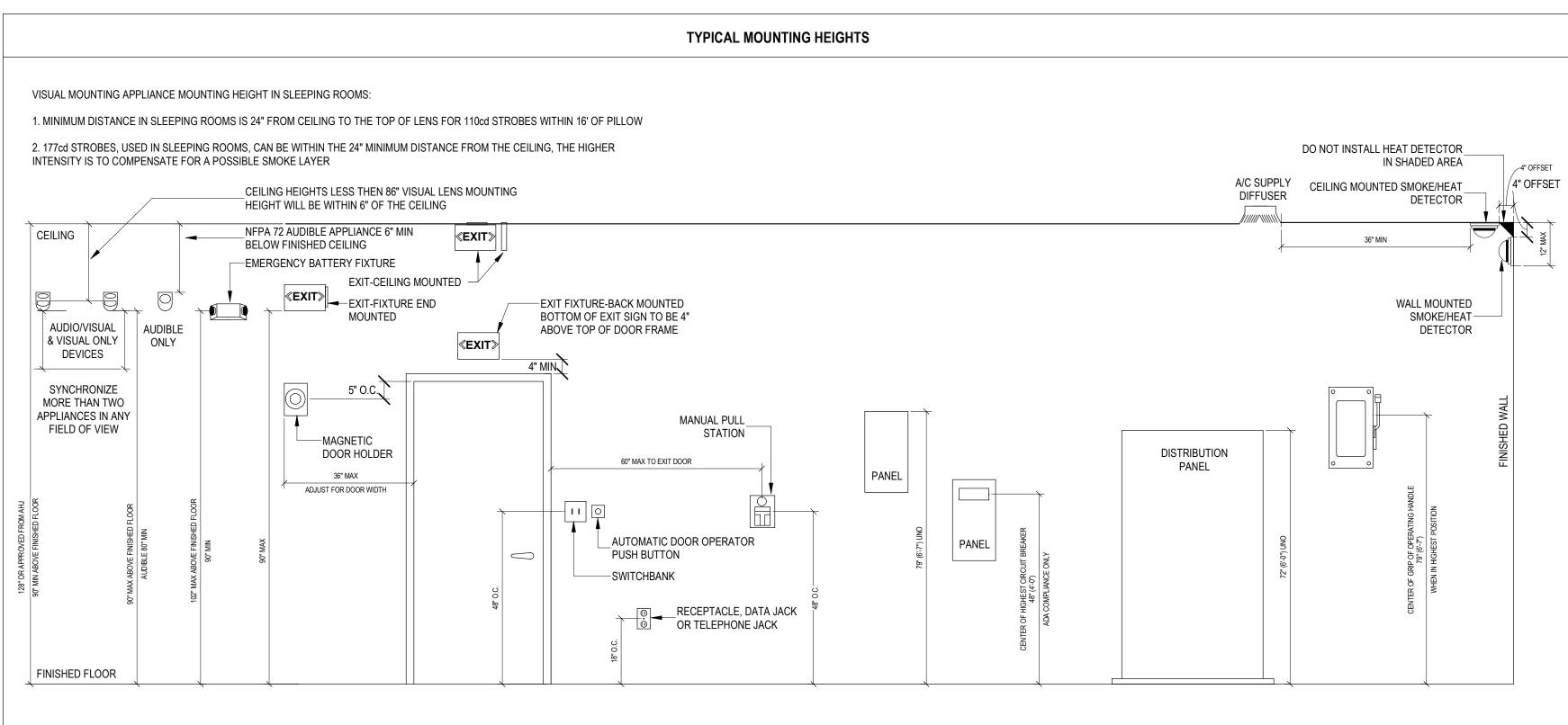
ADDENDUM #1

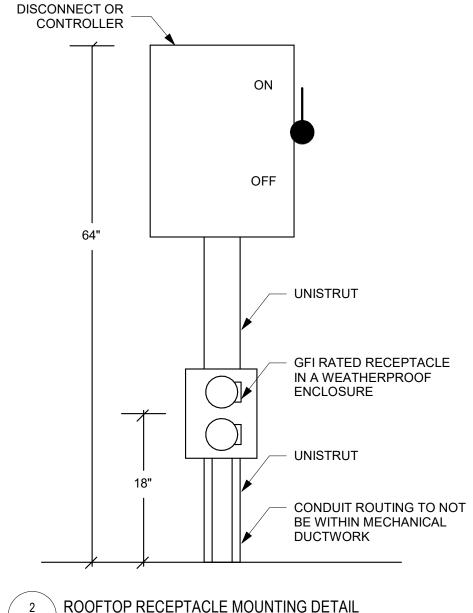


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GENERAL NOTES

CATEGORY 5e CABLE APPROXIMATELY SIZED AT .22" O.D. CATEGORY 6 APPROXIMATELY SIZED AT 0.24"/0.26" O.D. VERIFY WITH APPROVED MANUFACTURER PRODUCT.

CABLE TABLE 5.9 FROM 2000 BICSI TDMM, 10TH EDITION MANUAL, CH.5 HORIZONTAL CABLING SYSTEM. INCORPORATES GUIDLINES FROM ANSI/TIA/EIA - 569-B.

TRADE SIZE			CABL		SIDE DIA n (in.)	AMETER				
	0.33 (0.13)	0.46 (0.18)	0.56 (0.22)	0.61 (0.24)	0.74 (0.29)	0.79 (0.31)	0.94 (0.37)	1.35 (0.53)	1.58 (0.62)	1.78 (0.70)
3/4	6	5	4	3	2	2	1	0	0	0
1	8	8	7	6	3	3	2	1	0	0
1-1/4	16	14	12	10	6	4	3	1	1	1
1-1/2	20	18	16	15	7	6	4	2	1	1
2	30	26	22	20	14	12	7	4	3	2
2-1/2	45	40	36	30	17	14	12	6	3	3
3	70	60	50	40	20	20	17	7	6	6
3-1/2	-	-	-	-	-	-	22	12	7	6
4	-	-	-	-	-	-	30	14	12	7

CABLE CONDUIT FILL CHART E5.00 NOT TO SCALE

> JASON ANDEJESK 062-065380 DATE: 09.20.2024

ADDENDUM #1

ISSUED FOR BID:
ELECTRICAL

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GE

STONE

PRAIRIE

5510

ESTATE

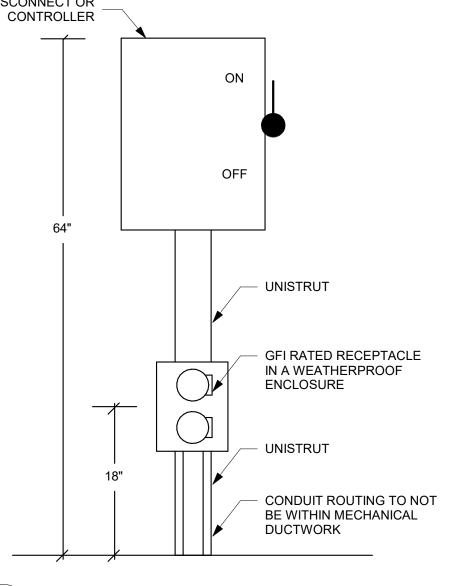
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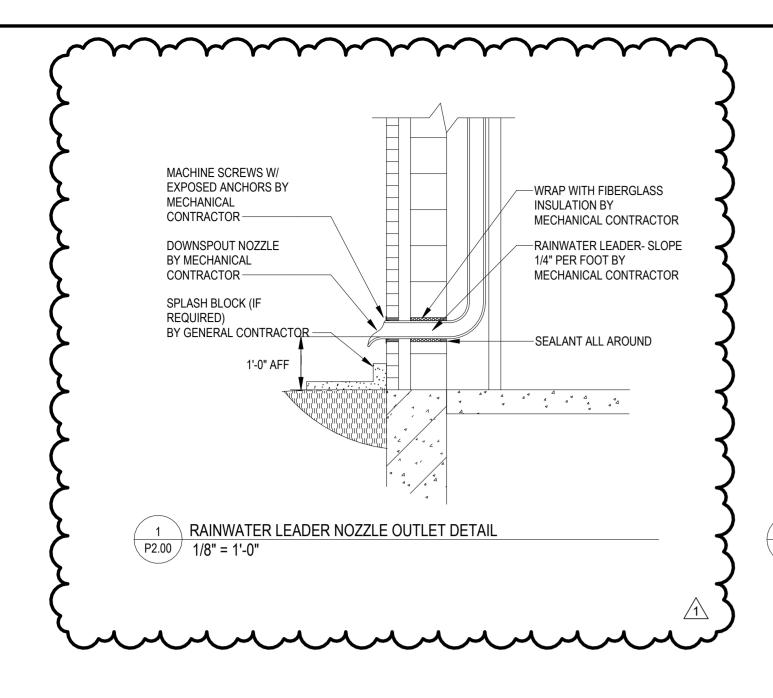
VILLAGE

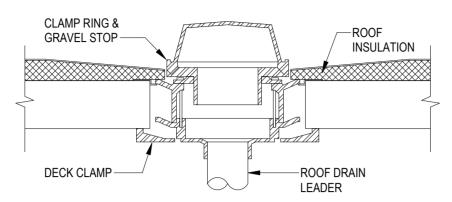
3 EQUIPMENT AND DEVICE MOUNTING DETAIL E5.00 NOT TO SCALE

1488 Bond Street, Suite 100 Naperville, Illinois 60563-6503 Engineering Inc. (P) 630.357.0540 (F) 630.357.01640 (E) 630.357.0540 (F) 6 (P) 630.357.0540 (F) 630.357.0164 LEIL Comm. No. # 24240047.000 COPYRIGHT © 2024

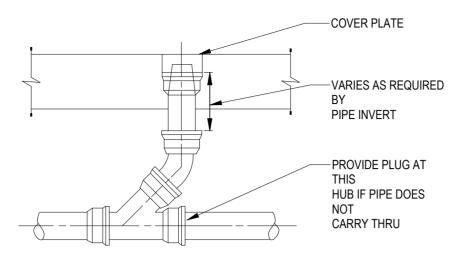


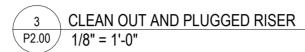
ROOFTOP RECEPTACLE MOUNTING DETAIL E5.00 NOT TO SCALE

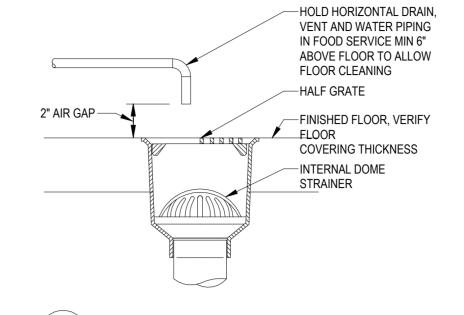


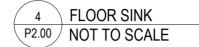


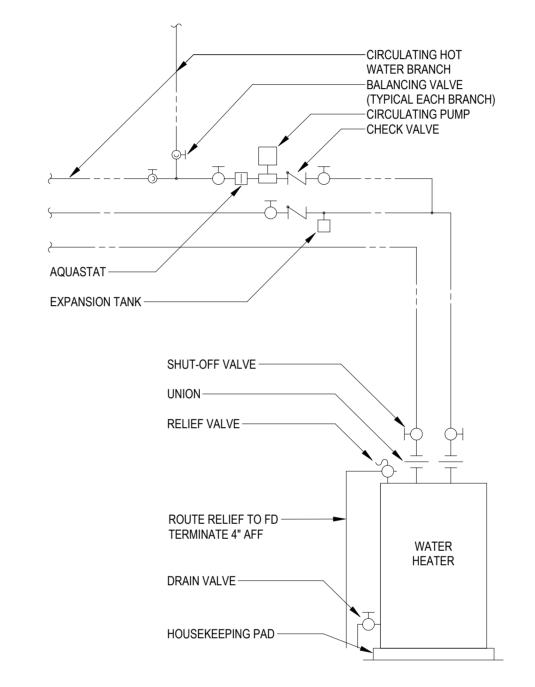




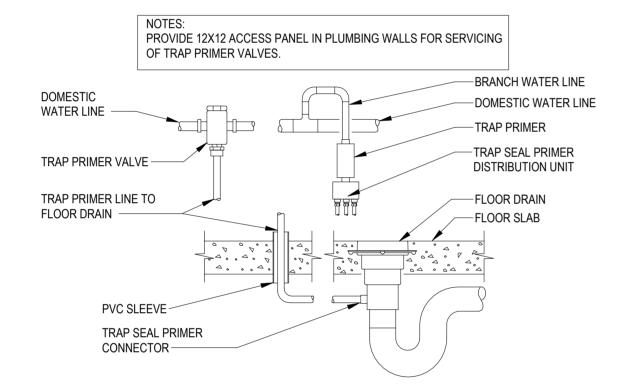




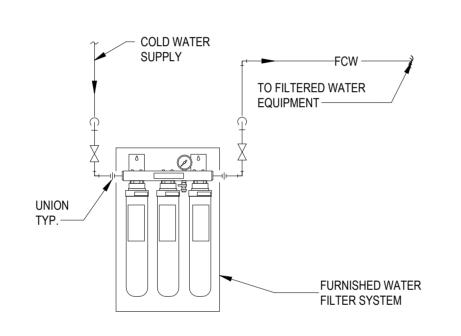




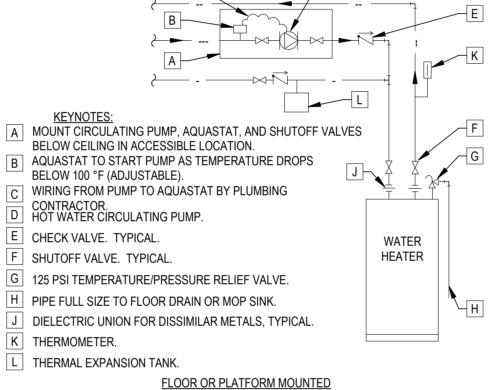
WATER HEATER PIPING DETAIL - SINGLE W/RECIRCULATION P2.00 NOT TO SCALE



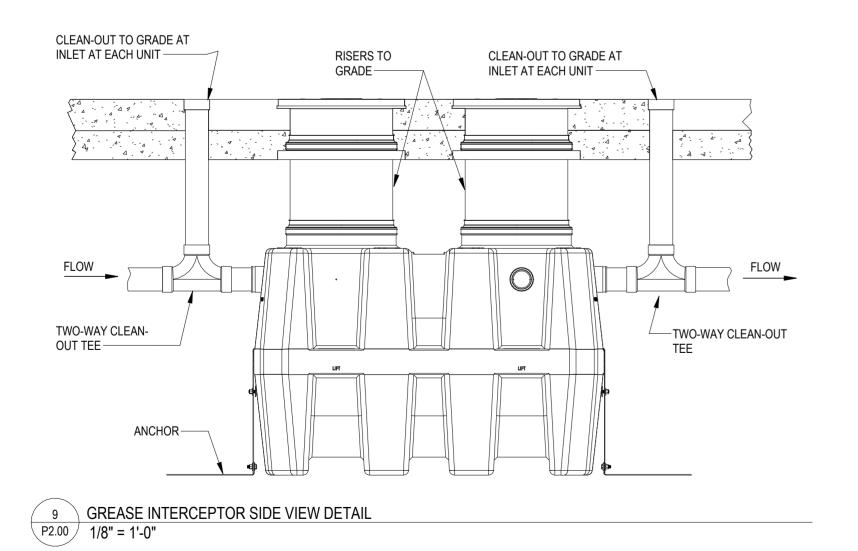
5 TRAP PRIMER DETAIL
P2.00 1/8" = 1'-0"













ADDENDUM #1

JSD

OF HOFFMAN ESTATES

VILLAGE

SION

O

VILLAGE

STONE

5510 PRAIRIE

Larson Engineering Inc.

1488 Bond Street, Suite 100 Naperville, Illinois 60563-6503 (P) 630.357.0540 (F) 630.357.0164 ILLINOIS LICENSE NO. 184-001442 LEIL Comm. No. # 24240047.000 COPYRIGHT © 2024

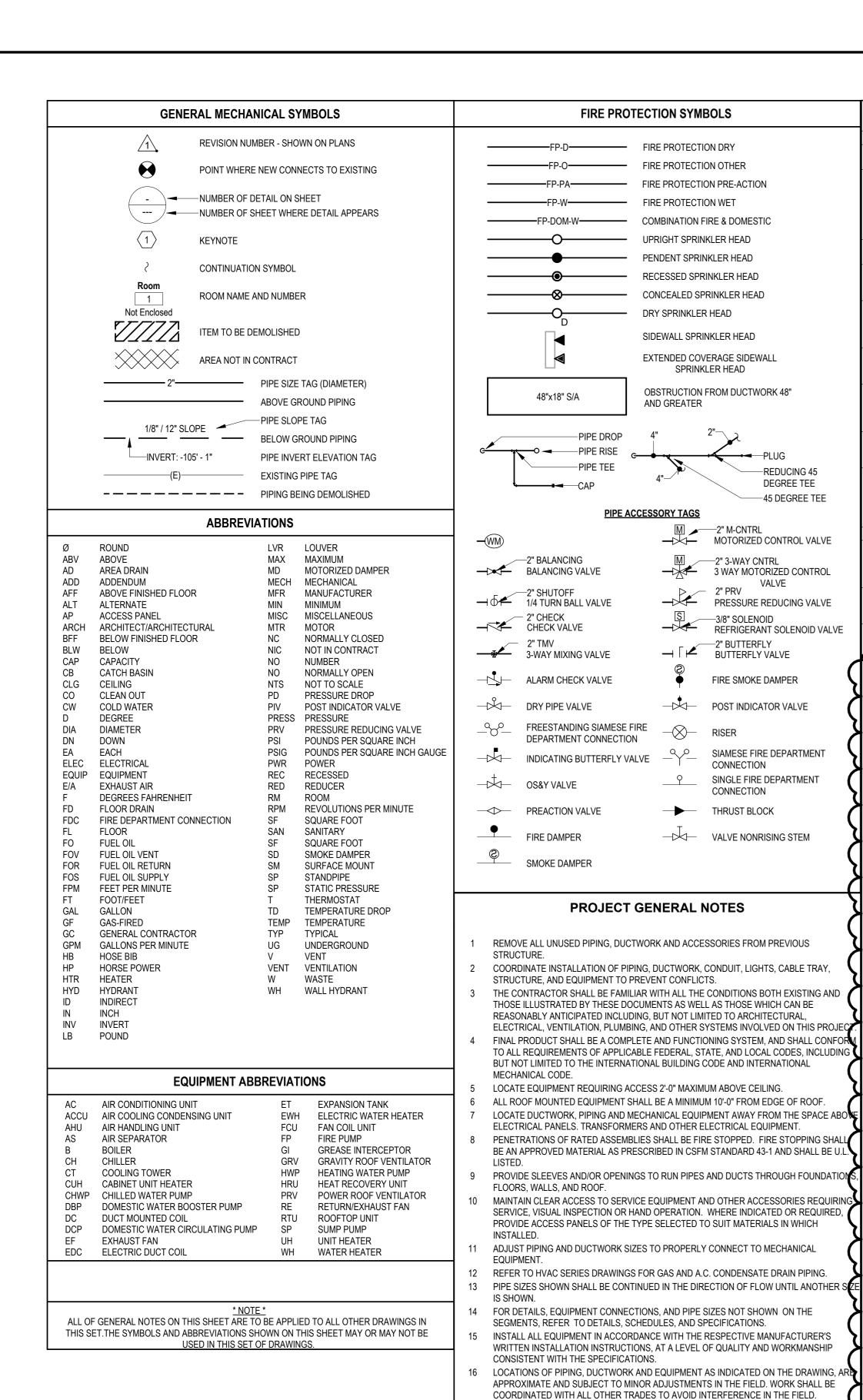


KEYNOTES:

A MOUNT CIRCULATING PUMP, AQUASTAT, AND SHUTOFF VALVES
BELOW CEILING IN ACCESSIBLE LOCATION.

B AQUASTAT TO START PUMP AS TEMPERATURE DROPS

P2.00 NOT TO SCALE



FIRE PROTECTION SYMBOLS FIRE PROTECTION GENERAL NOTES

UPRIGHT SPRINKLER HEAD

RECESSED SPRINKLER HEAD

DRY SPRINKLER HEAD

AND GREATER

PIPE ACCESSORY TAGS

PROJECT GENERAL NOTES

17 INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT

18 THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE

19 PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT,

20 CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE

21 PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE

CEILINGS.

PLUMBING FIXTURES, AND DIFFUSERS.

FOR ALL INSPECTIONS AS REQUIRED.

OF FINAL ACCEPTANCE.

-PIPE DROP

-PIPE TEE

PENDENT SPRINKLER HEAD

CONCEALED SPRINKLER HEAD

SIDEWALL SPRINKLER HEAD

EXTENDED COVERAGE SIDEWALL

SPRINKLER HEAD

OBSTRUCTION FROM DUCTWORK 48"

M ____2" M-CNTRL

MOTORIZED CONTROL VALVE

3 WAY MOTORIZED CONTROL

2" PRV
PRESSURE REDUCING VALVE

REFRIGERANT SOLENOID VALVE

FIRE SMOKE DAMPER

SIAMESE FIRE DEPARTMENT

SINGLE FIRE DEPARTMENT

----3/8" SOLENOID

——2" BUTTERFLY

POST INDICATOR VALVE

CONNECTION

CONNECTION

→ VALVE NONRISING STEM

THRUST BLOCK

→ 「 BUTTERFLY VALVE

2" 3-WAY CNTRL

-REDUCING 45

DEGREE TEE

-45 DEGREE TEE

- THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TE DATA OBTAINED AT OR NEAR THE JOB SITE
- PROVIDE A COMPLETE WET TYPE FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE FLOOR PLAN AND CEILING TYPES INCLUDING MAINS, BRANCHES HEADS, VALVES, AND ACCESSORIES AS REQUIRED. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.
- REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.
- DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FO PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.
- ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.
- THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED 1 ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE
- AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALL ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY S RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LE THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE. AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A
- VARIANCE BE PROVIDED AN INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH FIRE SPRINKLER ZONE. THIS CONTRACTOR SHALL PROVIDE FIXED PIPING FROM THE TEST CONNECTION TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE TEST. EXTERIOR DISCHARGE OF THE TEST CONNECTION SHALL BE PERMITTED ONLY BY SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER
- SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS. ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR FOUIPMENT, SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL B SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM.
- THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.
- 13 THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S CHOP DRAWINGS

FIRE PROTECTION SPECIFICATIONNS

- ALL WORK AND MATERIALS SHALL MATCH BUILDING STANDARDS UNLESS OTHERWISE NOTED. ALL WORK AND MATERIALS SHALL MEET ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS AS WELL AS, N.F.P.A. STANDARDS.
- OBTAIN AND PAY FOR ALL REQUIRED PERMITS, INSPECTIONS, ROYALTIES, ETC. PERTINENT TO THE SATISFACTORY INSTALLATION AND OPERATION OF THIS WORK.
- COORDINATE ALL WORK WITH ALL TRADES AND BUILDING CONDITIONS. THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH THE EXISTING STRUCTURE, HVAC SYSTEMS, ELECTRICAL SYSTEMS, PLUMBING SYSTEMS, AND FIRE PROTECTION SYSTEMS AND BASE HIS BID ACCORDINGLY. CONDITIONS THAT WILL INTERFERE WITH THE INSTALLATION OF THE NEW WORK MUST BE REPORTED TO THE ARCHITECT OR ENGINEER PRIOR TO STARTING ANY WORK. CONFLICTS SHALL BE SO NOTED ON SHOP DRAWINGS.
- CONTRACTOR SHALL SUBMIT COMPLETE, COORDINATED SHOP DRAWINGS, DATA SUBMITTALS, AND HYDRAULIC CALCULATIONS FOR REVIEW BY THE ARCHITECT AND ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK. WORK MAY COMMENCE AFTER THE CONTRACTOR RECEIVES REVIEWED SUBMITTALS AND OR SHOP DRAWINGS NOTED AS "REVIEWED" OR "REVIEWED AS NOTED." WORK INSTALLED PRIOR TO REVIEW OF CONTRACTOR'S SUBMITTALS MAY BE SUBJECT TO REVISIONS AT CONTRACTOR'S
- A. SHOP DRAWINGS SHALL INCLUDE THE LOCATION OF ALL EQUIPMENT, SPRINKLER HEADS, PIPING WITH ELEVATIONS, HYDRAULIC DATA, SLAB AND WALL PENETRATIONS, PIPE SIZES, SYMBOL LIST, AND DETAILS.
- B. DATA SUBMITTALS SHALL INCLUDE ENGINEERING DATA ON SPRINKLER HEADS, PIPING, FITTINGS, HANGERS, EQUIPMENT, SEALANTS, SLEEVES, FIRE PROOFING OF SLEEVES, VALVES, ALARMS, TEST DEVICES, CABINETS, EXTINGUISHERS, GAUGES, AND HYDRAULIC CALCULATIONS.
- SUBMIT TO THE OWNER, ARCHITECT, AND LANDLORD, SHOP DRAWINGS AND SUBMITTAL DATA, SIGNED AND APPROVED BY THE GOVERNING FIRE CODE OFFICIAL AND THE OWNER'S UNDERWRITER AGENCY, PRIOR TO INSTALLATION OF ANY WORK.
- ALL CORES THRU SLABS AND BEAMS SHALL BE APPROVED IN WRITING BY THE LANDLORD OR HIS REPRESENTATIVE. THIS CONTRACTOR ASSUMES ALL LIABILITIES FOR CORES WHICH HAVE NOT BEEN APPROVED IN WRITING BY THE LANDLORD OR HIS REPRESENTATIVE.
- PROVIDE ALL NECESSARY CUTTING, DRILLING AND PATCHING AS REQUIRE FOR THE NEW WORK. PATCH ALL DISTURBED WALLS FLOORS, PARTITIONS, CEILINGS, ETC. AS NEEDED, TO RESTORE THEM TO THEIR ORIGINAL CONDITION.
- FIRE PROOF AND/OR SEAL ALL PENETRATIONS THRU FLOORS, WALLS AND PARTITIONS, AS REQUIRED PER EXISTING BUILDING STANDARDS. ALL FLOOR PENETRATIONS AND FIREWALL PENETRATIONS SHALL BE FIRE PROOFED.
- CONTRACTOR SHALL COORDINATE WORK WITH ARCHITECT'S LATEST REFLECTED CEILING PLAN. ACCESS PANELS SHALL BE LOCATED, SIZED AND GIVEN TO THE GENERAL CONTRACTOR FOR SUBMISSION TO THE ARCHITECT FOR REVIEW AND FINISH REQUIREMENTS. THIS CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE ACCESS PANELS.
- FINAL LAYOUT OF THE WORK SHALL GIVE CONSIDERATION TO EXISTING CONDITIONS AND THE INSTALLATION OF NEW WORK BY ALL INSTALLING TRADES.
- ALL NEW WORK SHALL BE TESTED PER GOVERNING CODES AND/OR N.F.P.A. STANDARDS. PIPING SHALL BE FLUSHED FREE OF DEBRIS, AND TESTED. ANY DEFICIENCIES FOUND SHALL BE CORRECTED AND RETESTED TO THE SATISFACTION OF THE CODE OFFICIAL AND THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.
- 10. ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER.

FIRE PROTECTION CRITERIA

- THESE SPECIFICATIONS APPLY TO THE DESIGN, INSTALLATION, OF A WET-PIPE AUTOMATIC SPRINKLER SYSTEMS FOR A THE EXPANSION PORITION OF THE FIRE DEPARTMENT BUILDING. PROJECT CONSISTS ENTIRELY OF NEW CONSTRUCTION AND BUILDING THE OCCUPANCY CLASSIFICATION SHALL BE LIGHT HAZARD U.O.N.
- THE DESIGN AND INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS SHALL COMPLY WITH THE ALL CURRENT APPLICABLE CODES, CURRENT NFPA 13 EDITION, IDPH, THE ILLINOIS STATE FIRE MARSHAL REQUIREMENTS AND THE CITY OF HEBRON FIRE CODES. SYSTEM MUST ALSO COMPLY WITH IHDA 2019 STANDARDS FOR ARCH PLANNING CONSTRUCTION.

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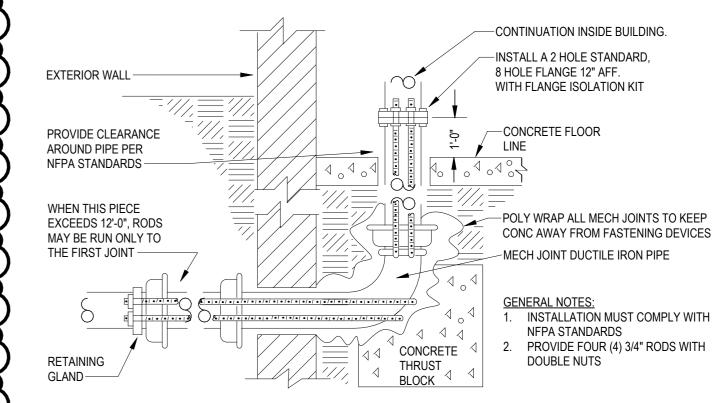
- THE SYSTEM WILL INCLUDE USING LISTED PIPING LOCATED ABOVE CEILING WITH PIPE DROPS TO RECESSED OR SIDEWALL COVERING AREAS BELOW THE CEILING. UPRIGHT SPRINKLERS TO BE USED IN AREAS WITHOUT CEILINGS.
- CONTRACTOR SHALL PERFORM FLOW TEST PRIOR TO BID AND CONSTRUCTION. FLOW TEST SHALL BE WITNESSED BY AHJ AS REQUIRED. CONTRACTOR SHALL NOTIFY ENGINEER/ARCHITECT IS WATER FLOW OR RISER SIZE IS DEFICIENT PRIOR TO BID.
- 5. FIRE-SUPPRESSION SPRINKLER SYSTEM DESIGN SHALL BE APPROVED BY AUTHORITIES
- MARGIN OF SAFETY FOR AVAILABLE WATER FLOW AND PRESSURE: 00 PERCENT, INCLUDING LOSSES THROUGH WATER-SERVICE PIPING, VALVES, AND BACKFLOW
- SPRINKLER HEADS TO BE OVER QUICK-RESPONSE TYPE.
- SPRINKLER OCCUPANCY HAZARD CLASSIFICATIONS:
- ORDINARY HAZARD, GROUP BUILDING SERVICE AREAS ELECTRICAL EQUIPMENT ROOM ORDINARY HAZARD, GROUP 1 GENERAL STORAGE AREAS ORDINARY HAZARD, GROUP 1 MECHANICAL EQUIPMENT ROOMS ORDINARY HAZARD, GROUP 1 OFFICE AND PUBLIC AREAS LIGHT HAZARD
- MINIMUM DENSITY FOR AUTOMATIC-SPRINKLER PIPING DESIGN:

0.10 GPM/SQ. FT. OVER 1,500 SQ. FT. 0.15 GPM/SQ. FT. OVER 1,500 SQ. FT. ORDINARY HAZARD, GROUP 1

- MAXIMUM PROTECTION AREA PER SPRINKLER (STANDARD COVERAGE):
- MECHANICAL EQUIPMENT ROOMS ACCORDING TO NFPA 13 ELECTRICAL EQUIPMENT ROOMS ACCORDING TO NFPA 13 OTHER AREAS ACCORDING TO NFPA 13
- EXTENDED COVERAGE HEADS ARE ACCEPTABLE WITH PRIOR APPROVAL.
- CONTRACTOR SHALL INSTALL ALL FIRE PROTECTION SYSTEM EQUIPMENT, DEVICES, AND RELATED ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTION.
- INSTALL INDICATING CONTROL VALVES FOR SPRINKLERS IN ELECTRICAL ROOMS. SIGNAGE SHALL BE INSTALLED TO IDENTIFY THE LOCATION OF THE VALVE.
- FIRE PROTECTION EQUIPMENT AND DEVICES SHALL BE UL LISTED AND FM APPROVED. CONTRACTOR SHALL SUBMIT MANUFACTURE PRODUCT LISTS FOR EACH TYPE OF PROPOSED EQUIPMENT AND DEVICES TO THE ARCHITECT/ENGINEER, AND OWNERS' INSURANCE UNDERWRITER FOR APPROVAL PRIOR TO INSTALLATION.
- INSTALLATION OF EQUIPMENT AND DEVICES NOT REVIEWED BY THE ARCHITECT/ENGINEER SHALL BE AT THE RISK OF THE CONTRACTOR. CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR THE COST OF REPLACEMENT WITH APPROVED EQUIPMENT AND DEVICES
- 10. CONTRACTOR SHALL PROVIDE ROUTING OF MAIN AND BRANCH PIPING AND SPRINKLERS AS REQUIRED TO ACCOMMODATE ARCHITECTURAL LAYOUT, DUCTWORK, DUCTWORK ROUTING, LIGHTS, CONDUITS, CABLES AND DIFFUSERS. ALL NEW PIPING SHALL E COORDINATED WITH MECHANICAL ELECTRICAL PLUMBING OR OTHER NEW WORK INSTALLATION CONFLICTS SHALL BE REROUTED OR REMOVED/RELOCATED AT NO ADDITIONAL COST TO THE OWNER.
- 11. CONTRACTOR SHALL HYDROSTATICALLY TEST ALL NEW SPRINKLER PIPING IN ACCORDANCE WITH NFPA 13 REQUIREMENTS.
- 12. CONTRACTOR SHALL INSTALL SPRINKLERS IN A BALANCED, LINEAR PATTERN. FINAL LOCATION OF ALL SPRINKLER HEADS SHALL BE APPROVED BY ARCHITECT DURING SHOP DRAWINGS. CONTRACTOR SHALL ALLOW FOR ADDITIONAL SPRINKLERS FOR THIS FINAL COORDINATION.
- 13. ALL SPRINKLERS SHALL BE INSTALLED IN CENTER OF CEILING TILES +/- 1/2 INCH IN AREAS WHERE HUNG CEILINGS ARE PROVIDED.
- 14. SPARE SPRINKLERS AND CABINETS SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13.
- 15. PROVIDE FIRE EXTINGUISHERS WITH CABINETS AS INDICATED ON THE PLANS AND IN ACCORDANCE WITH NFPA REQUIREMENTS AND THE ILLINOIS STATE FIRE MARSHAL REQUIREMENTS. CABINETS SHALL BE RATED WHERE MOUNTED IN RATED WALLS.
- 16. ALL VALVES CONTROLLING WATER SERVICE TO FIRE PROTECTION SYSTEM SHALL BE PROVIDED WITH TAMPER SWITCHES CONNECTED TO THE BUILDING FIRE ALARM SYSTEM.
- 17. CONTRACTOR SHALL SUBMIT WRITTEN TEST REPORTS AND CERTIFICATIONS TO THE ARCHITECT/ENGINEER, OWNER, AND OWNERS' INSURANCE UNDERWRITERS.
- 18. CONTRACTOR SHALL SUBMIT DESIGN DRAWINGS AND HYDRAULIC CALCULATIONS TO THE ARCHITECT/ENGINEER, FIRE DEPARTMENT, AND THE STATE FIRE MARSHAL FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. INSTALLATION PRIOR TO APPROVAL SHALL BE AT THE RISK OF THE CONTRACTOR AND ANY MODIFICATIONS ARISING THEREOF SHALL BE AT NO ADDITIONAL COST TO THE OWNER OR ARCHITECT/ ENGINEER. A MINIMUM OF THREE SETS OF PLANS AND ONE SET OF SPECIFICATIONS AND HYDRAULIC CALCULATIONS SHALL BE SUBMITTED TO THE FIRE DEPARTMENT.

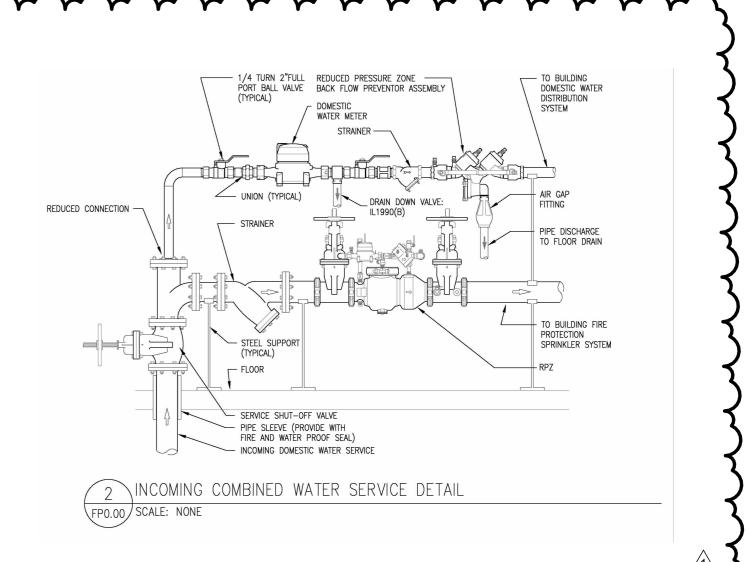
FIRE PROTECTION SHEET INDEX

FP0.00 FIRE PROTECTION TITLE SHEET FP1.00 FIRE PROTECTION PLAN



NOTE: ACCEPTABLE ALTERNATIVE TO MECHANICAL JOINTS AND FITTINGS FOR LEAD-IN PIPING IS STAINLESS STEEL, SINGLE PIECE 90 DEGREE FITTING AS DESCRIBED IN SPECIFICATION.

WATER SERVICE LINE EXTENSION DETAIL √FP0.00/ NO SCALE



	30 S WACKER DRIVE 22ND FLODR		SUITE 100
CONSULT	HRGreen	STRUCTURAL CONSULTANT:	on neering, Inc.
(P) 855.962.	106 W WILSON STREET, SUITE 2L BATAVIA, IL 60510	(P) 312.644.3379	VENUE, SUITE 215 101S 60018
KITC CONSULT	edge associates inc.	LANDSCAPE CONSULTANT:	SD

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PRAIRI

ADDENDUM #1

1488 Bond Street, Suite 100 Naperville, Illinois 60563-6503 (P) 630.357.0540 (F) 630.357.0164 ILLINOIS LICENSE NO. 184-001442 LEIL Comm. No. # 24240047.000 COPYRIGHT © 2024

JASON ANDEJESK 062-065380

DATE: 09.20.2024



NOTE: FOR BIDDING PURPOSES ONLY, FINAL GRAPHIC TO BE SUPPLIED BY ARCHITECT.

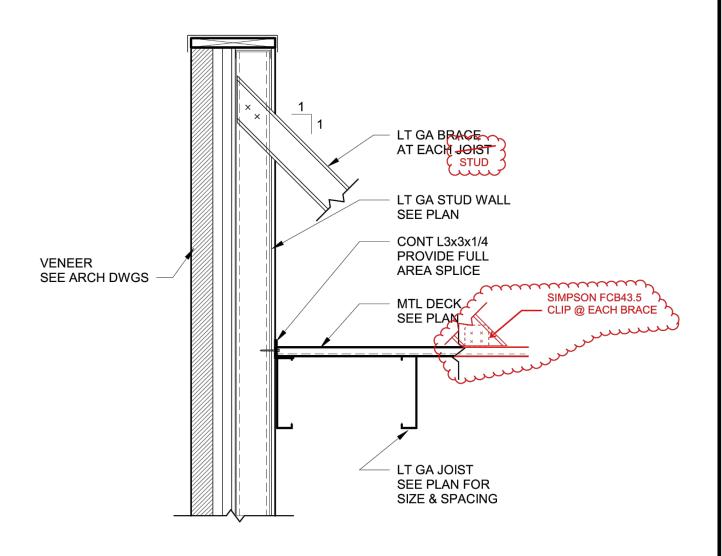


VILLAGE	OF HOFFMAN ESTATES
VILLAGE	GREEN CONCESSIONS

ASK-01

RENDERING - WALL GRAPHIC (REF. 2/A4.00) SCALE: NOT TO SCALE

09/20/24



3 TYPICAL SECT JOIST PARALLEL TO LT GA WALL \$3.00 3/4" = 1'-0"



OWNER VILLAGE GREEN CONCESSIONS	SSK-01 sketch no.:
BRACE TO DECK (REL 3/S3.00) SCALE: 3/4" = 1'-0"	09/20/24