

GENERAL NOTES

- ALL CONTRACTORS AND SUBCONTRACTORS WILL THOROUGHLY FAMILIARIZE THEMSELVES WITH THESE CONSTRUCTION DOCUMENTS AND WILL VERIFY EXISTING SITE AND CONDITIONS PRIOR TO SUBMITTING A BID. ALL SUBCONTRACTORS WILL PROVIDE ALL LABOR, SUPERVISION, AND MATERIALS OF EVERY TYPE WHICH MAY BE NECESSARY FOR A SUCCESSFUL COMPLETION. ALL WORK TO BE PERFORMED IN A GOOD AND WORKMANLIKE MANNER ACCORDING TO THE TRUE INTENT AND MEANING OF THE DRAWINGS AND SPECIFICATIONS.
- THIS ARCHITECT AND HIS PROFESSIONAL CONSULTANTS WILL NOT HAVE CONTROL, OF AND WILL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK ON THIS PROJECT OR FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK ON THIS SITE, NOR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE INTENT OF THE CONTRACT AND OR CONSTRUCTION DOCUMENTS.
- ALL CONTRACTORS WILL PROVIDE ADEQUATE BRACING AND/OR SHORING TO INSURE STRUCTURAL STABILITY OF THE BUILDING AND ALL RELATED BUILDING COMPONENTS IE: STRUCTURAL WALLS, INTERIOR WALL ASSEMBLIES, ETC. DURING THE CONSTRUCTION PHASE OF THIS PROJECT.
- WORK WILL BE COORDINATED WITH ALL TRADES IN ORDER TO AVOID INTERFERENCE, AND AVOID OMISSIONS.
- ALL MATERIALS USED WILL BE NEW AND BEAR U.L. LABELS WHERE REQUIRED AND MEET APPROPRIATE N.E.M.A. STANDARDS.
- LAYOUT ALL PARTITIONS BEFORE BEGINNING CONSTRUCTION TO PREVENT ERRORS BY DISCREPANCY. ALL DRYWALL PARTITIONS WILL BE INSTALLED AS NOTED ON THE DRAWINGS.
- EACH SUBCONTRACTOR WILL AMEND AND MAKE GOOD AT HIS OWN COST, ANY DEFECTS OR OTHER FAULTS IN HIS WORKMANSHIP AND/OR HIS SUPPLIED MATERIALS.
- ALL CONTRACTORS WILL GUARANTEE ALL LABOR AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF OCCUPANCY.
- VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING, CUTTING AND/OR INSTALLING MATERIAL, PRODUCT OR EQUIPMENT. IN THE EVENT OF ANY DISCREPANCIES, CONTACT THE CONSTRUCTION MANAGER OR OWNER BEFORE PROCEEDING WITH THAT WORK.
- ALL SUBCONTRACTORS WILL PROVIDE A CERTIFICATE OF INSURANCE TO THE GENERAL CONTRACTOR PRIOR TO STARTING ANY WORK ON THIS PROJECT. CERTIFICATE OF INSURANCE CANNOT BE TERMINATED OR CANCELED WITHOUT 10 DAYS PRIOR WRITTEN NOTICE TO THE OWNER.
- ANY ADDITIONS OR CHANGES TO WORK MUST BE AUTHORIZED IN WRITING BY THE OWNER. NO ALTERATIONS WILL BE MADE ON THIS PROJECT EXCEPT UPON WRITTEN ORDER BY THE OWNER.
- NO SUBSTITUTIONS OF ANY KIND FOR MATERIALS SPECIFIED ON THESE CONSTRUCTION DOCUMENTS IS ALLOWED. NO "EQUIVALENT" SUBSTITUTIONS WILL BE MADE, UNLESS DUE TO THE LACK OF AVAILABILITY OF THE ORIGINAL MATERIAL SPECIFIED AND APPROVED IN WRITING BY OWNER.
- WEATHER CONDITIONS: CONTRACTORS WILL PROTECT ALL PARTS OF THEIR WORK FROM WEATHER DAMAGE DUE TO FROST, RAIN, HEAT, ETC. AND WILL MAKE GOOD TO THE SATISFACTION OF THE CONSTRUCTION MANAGER AND/OR GENERAL CONTRACTOR ANY PORTION OF THE WORK WHICH MAY HAVE BECOME DAMAGED.
- RESPONSIBILITY OF CONTRACTOR: EACH SUBCONTRACTOR IS RESPONSIBLE FOR WORKMANSHIP AND MATERIALS. EACH SUBCONTRACTOR IS RESPONSIBLE FOR THE CARE AND PROTECTION OF HIS OWN WORK AND MATERIALS.
- SITE SAFETY: EACH CONTRACTOR WILL ABIDE BY LOCAL AREA STANDARDS AND RELATED OSHA STANDARDS FOR THE PROTECTION AND SAFETY FOR THEIR EMPLOYEES ON SITE. THIS ARCHITECT AND HIS PROFESSIONAL CONSULTANTS WILL BE HELD HARMLESS BY THE OWNER, GENERAL CONTRACTOR AND RELATED AWARDED TRADES ON THIS PROJECT FOR ACCIDENTS OR INJURIES CAUSED OR ACCRUED ON THIS PROPERTY DURING THE PRE/ACTUAL/POST CONSTRUCTION PHASES OF THIS PROJECT.
- PILFERAGE: EACH CONTRACTOR WILL BE RESPONSIBLE FOR HIS OWN EQUIPMENT AND MATERIALS USED IN CONSTRUCTION INCLUDING THOSE ITEMS, FURNISHED BY THE OWNER, AND DELIVERED TO THE JOB SITE, TO BE INSTALLED BY THE CONTRACTOR. THE OWNER WILL NOT BE HELD LIABLE FOR STOLEN EQUIPMENT, MATERIALS OR DAMAGE OF THE SAME ON THIS JOB SITE.
- LIENS: ALL SUBCONTRACTORS AND THE GENERAL CONTRACTOR WILL DELIVER TO THE OWNER, A COMPLETE RELEASE OF ALL CLAIMS ARISING OUT OF THIS CONTRACT.
- GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL OF DEBRIS ACCUMULATED BY EACH TRADE. HOWEVER, EACH TRADE WILL KEEP THE JOB SITE CLEAN AND SAFE AT ALL TIMES, ALONG WITH A BROOM FINISH AT THE END OF EACH WORKING DAY.
- SCHEDULE OF WORK: THE OWNER CONSTRUCTION MANAGER WILL COORDINATE WITH THE GENERAL CONTRACTOR DURING THE BIDDING PROCESS, THE REQUIRED NUMBER OF CALENDAR DAYS TO COMPLETE THIS WORK.



BRIDGES OF POPLAR CREEK DRIVING RANGE
1400 POPLAR CREEK DRIVE
HOFFMAN ESTATES, IL 60169



DRAWING INDEX

GENERAL

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NOTE:
CIVIL DRAWINGS AND FIRE PROTECTION DRAWINGS ARE UNDER SEPARATE DRAWING SET.

PROJECT DIRECTORY

OWNER

HOFFMAN ESTATES PARK DISTRICT
ATTN: DUSTIN HUGEN
1685 W. HIGGINS ROAD
HOFFMAN ESTATES, IL 60169
847.285.5465

ARCHITECT

API ARCHITECTS
ATTN: CHRISTIAN KALISCHEFSKI
2675 PRATUM AVENUE
HOFFMAN ESTATES, IL 60192
224.293.6333

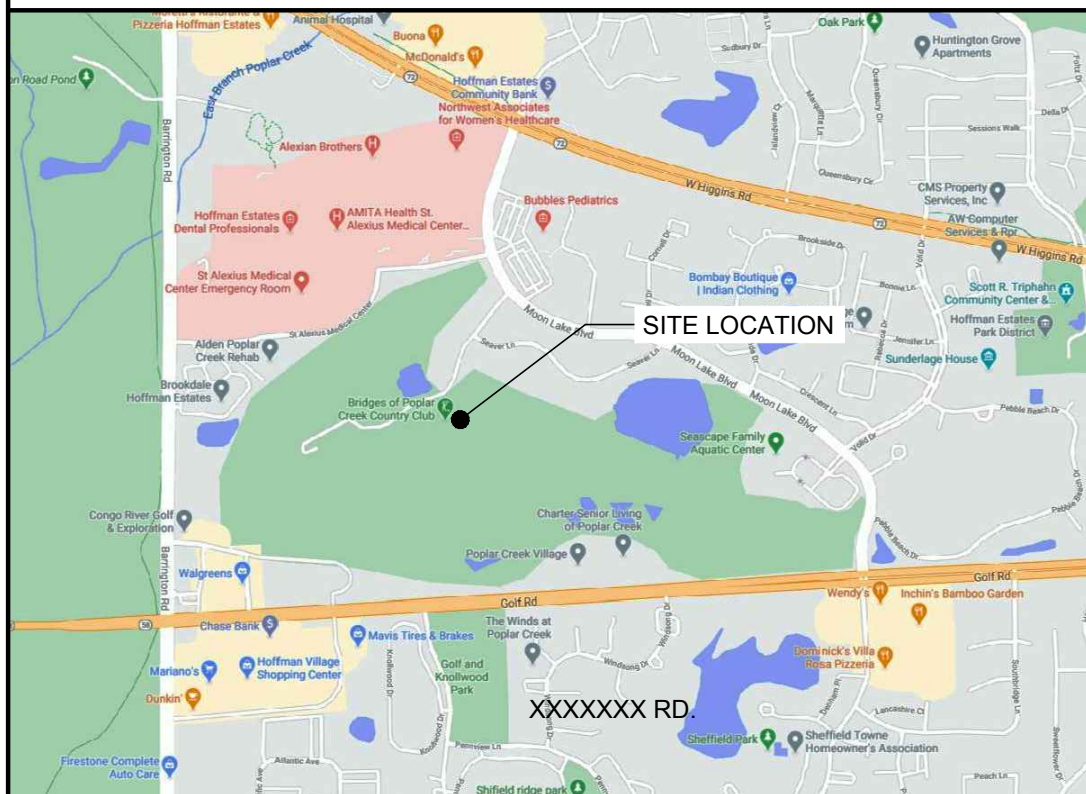
CIVIL ENGINEER

WT GROUP
ATTN: TODD ABRAMS
2675 PRATUM AVENUE
HOFFMAN ESTATES, IL 60192
224.293.6333

MECHANICAL, ELECTRICAL, AND PLUMBING ENGINEER

WT GROUP
ATTN: MARK VENTRELLI
2675 PRATUM AVENUE
HOFFMAN ESTATES, IL 60192
224.293.6333

LOCATION MAP



GENERAL BUILDING INFORMATION

HOFFMAN ESTATES ADOPTED CODES

2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL FIRE CODE
2015 INTERNATIONAL MECHANICAL CODE
2017 NATIONAL ELECTRICAL CODE
CURRENT ILLINOIS STATE PLUMBING CODE
2018 ILLINOIS ACCESSIBILITY CODE
CURRENT ILLINOIS ENERGY CONSERVATION CODE
2015 INTERNATIONAL FUEL GAS CODE

CURRENT HOFFMAN ESTATES ZONING ORDINANCE

BUILDING DATA

ZONING CLASSIFICATION: RPD - RESIDENTIAL PLANNED DEVELOPMENT DISTRICT
OCCUPANCY: A-5
CONSTRUCTION TYPE: VB
NUMBER OF STORIES: 1

BUILDING AREA: 4,492 SQ.FT.

THE INFORMATION CONTAINED ON THIS SHEET IS INTENDED AS A GENERAL OVERVIEW OF THE PROJECT. A FULL DETAILED CODE REVIEW FOR THIS PROJECT CAN BE FOUND ON SHEET G002.

STATEMENT OF COMPLIANCE

I, CHRISTIAN KALISCHEFSKI, A.I.A., DULY LICENSED IN THE STATE OF ILLINOIS BY THE DEPARTMENT OF PROFESSIONAL REGULATION, DO HEREBY STATE THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF DOES CONFORM TO THE APPLICABLE BUILDING CODES AND ORDINANCES, AND ARE IN COMPLIANCE WITH THE ENVIRONMENTAL BARRIERS ACT [410 ILLS 25] AND THE ILLINOIS ACCESSIBILITY CODE (71 III.ADM. CODE 400).

Christian Kalischefski



DATE:

CHRISTIAN KALISCHEFSKI
ILLINOIS REGISTRATION NUMBER: 001-012930
DATE OF EXPIRATION: NOVEMBER 30, 2022

SCOPE OF WORK

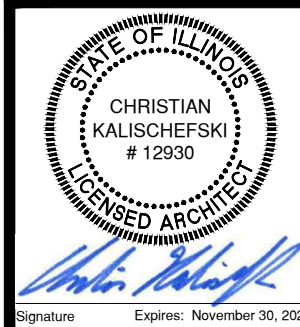
THIS IS A NEW GOLF DRIVING RANGE SHELTER TO INCLUDE A NEW 4,492 SQ. FT. BUILDING.

API ARCHITECTS



2675 PRATUM AVENUE
HOFFMAN ESTATES, IL 60192
OFFICE: 912.509.1942

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BRIDGES OF POPLAR CREEK DRIVING RANGE
1400 POPLAR CREEK DRIVE
HOFFMAN ESTATES, IL 60169

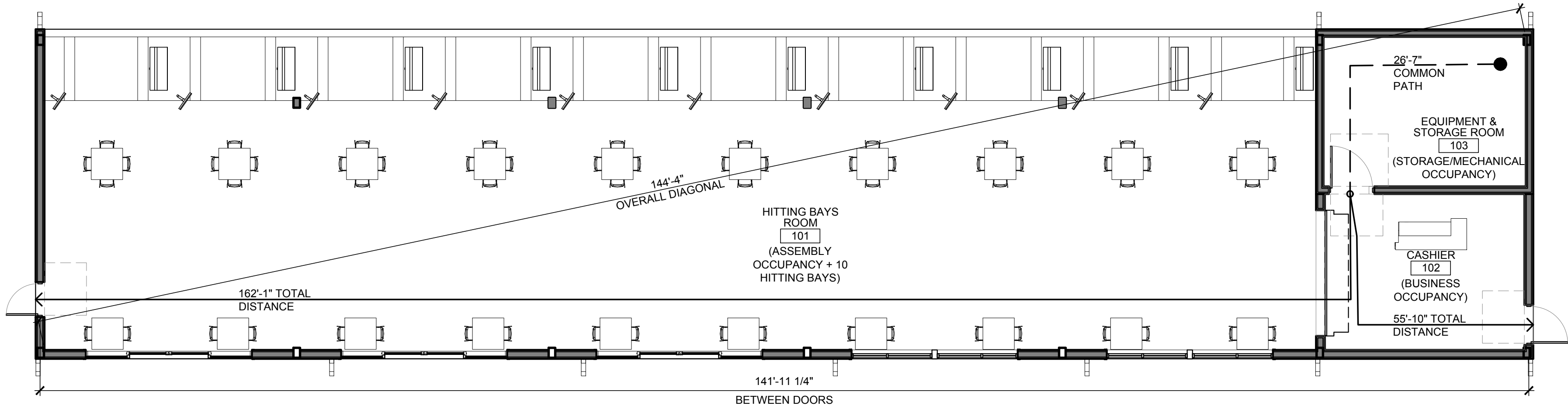
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revision 2:
revision 3:
revision 4:
checked: CA
drawn: SC

sheet title: COVER SHEET

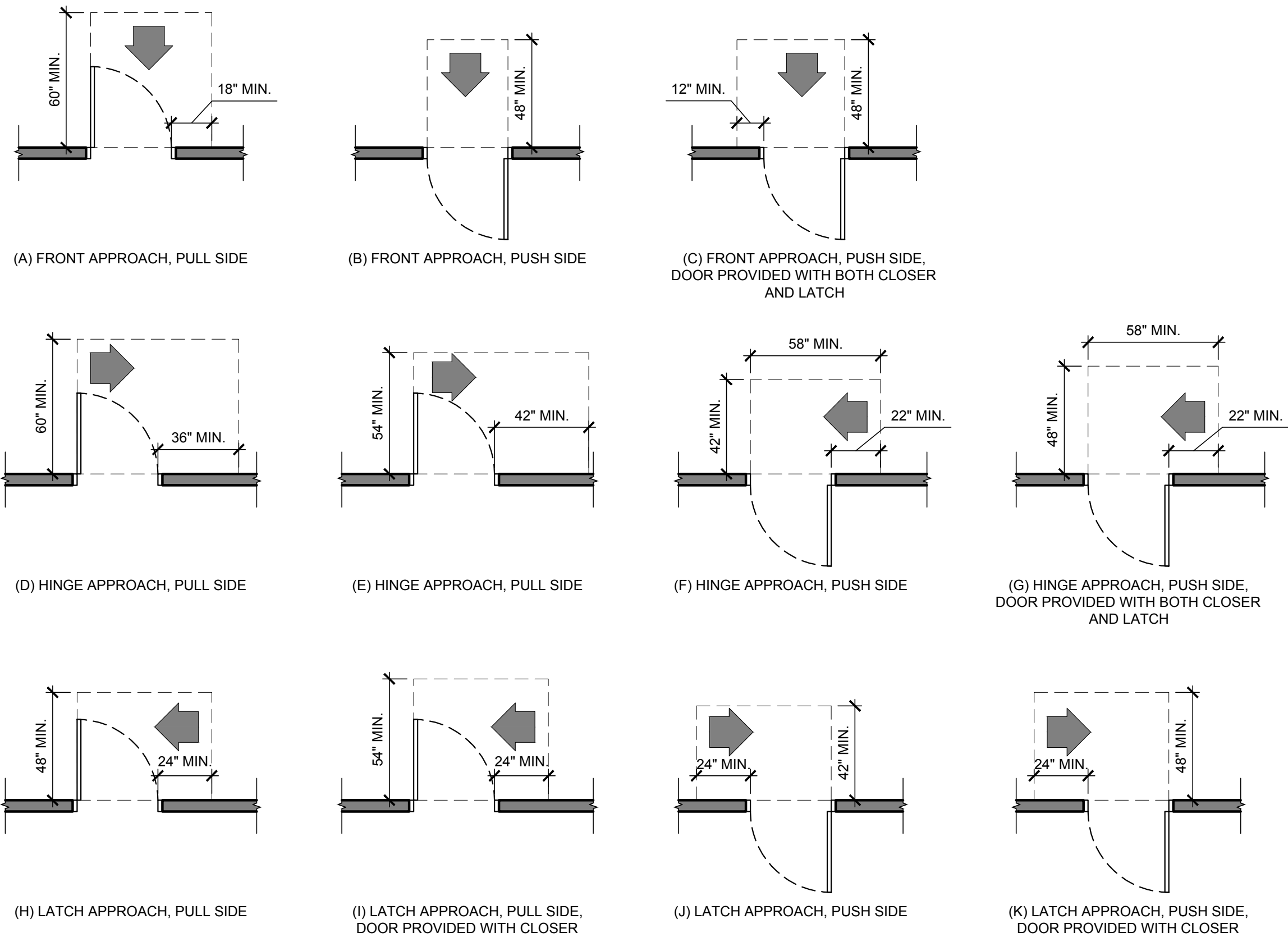
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G001

Project & Code Information		2002487D - Bridges of Poplar Creek - Hoffman Estates, IL		
APPLICABLE CODES: All work under this contract shall comply with the provisions of the specifications and drawings, and shall satisfy all applicable codes, ordinances and regulations of all governing bodies involved. All Permits and Licenses necessary for				
CODES				
2015 INTERNATIONAL BUILDING CODE		2017 NATIONAL ELECTRICAL CODE		
2015 INTERNATIONAL MECHANICAL CODE		2014 ILLINOIS PLUMBING CODE		
2015 INTERNATIONAL FIRE CODE		2018 ILLINOIS ACCESSIBILITY CODE		
2018 ILLINOIS ENERGY CONSERVATION CODE		LOCAL ADMENDMENTS TO ABOVE CODES		
CODE	SECTION	ITEM	REQUIRED or ALLOWED	PROVIDED
IBC 2015	302.1	Use & Occupancy Classification	Group A-5	Group A-5
IBC 2015	903.2	Automatic Sprinkler System	Group A-5 sprinkler required in retail and concessions areas over 1000 sf	N/A - no sprinkler provided
IBC 2015	602	Construction Type:	VB	VB
IBC 2015	Table 504.3	Allowable Building Height in Feet Above Grade Plane	40'-0" max	19'-0"
IBC 2015	Table 504.4	Allowable Number of Stories Above Grade Plane	UL (unlimited)	1 story
IBC 2015	Table 506.2	Allowable Area	UL (unlimited)	4,492 SF
IBC 2015	Table 601	Fire resistance - Structural frame (I.e. columns, beams,	VB = 0 HRS	0 HRS
IBC 2015	Table 601	Fire resistance - Exterior bearing walls	0 HRS (as required by Table 602 & Table 705.8)	0 HRS
IBC 2015	Table 601	Fire resistance - Interior bearing walls	VB = 0 HRS	0 HRS
IBC 2015	Table 601	Fire resistance - Exterior non-bearing walls	VB = 0 HRS	0 HRS
IBC 2015	Table 601	Fire resistance - Interior non-bearing walls	VB = 0 HRS	0 HRS
IBC 2015	Table 601	Fire resistance - Floor Construction (incl. beams & joists)	VB = 0 HRS	0 HRS
IBC 2015	Table 601	Fire resistance - Roof Construction (incl. beams and joists)	VB = 0 HRS	0 HRS
IBC 2015	Table 602	Exterior Wall Fire Resistance Ratings	x < 5', 1 hour 5' ≤ x < 10', 1 hour 10' ≤ x < 30', 0 hour x ≥ 30', 0 hour	North ≥ 30', 0 hour East ≥ 30', 0 hour South ≥ 30', 0 hour West ≥ 30', 0 hour
IBC 2015	Table 1004.1.2	Occupant Load	Assembly (without fixed seats, unconcentrated) = 15 sf net Business = 100 sf gross Storage/Mech = 300 sf gross Individual golf stations = 10 TOTAL	2899 SF / 15 SF = 193.27 people 283 SF / 100 SF = 2.83 people 275 SF / 300 SF = 0.92 people 10 people 207.02 = 207 people
IBC 2015	1005.3.2	Minimum Egress Width	Occupants 207 x .2" = 41.4"	36" x 2 = 72"
IBC 2015	1005.7.1	Door encroachment	max 7" encroachment, less than 50% aisle reduction	OK
IBC 2015	1010.1.1	Minimum Size of Doors	32"	36"
IBC 2015	Table 1006.2.1	Common Path of Egress	75' maximum	26'-7"
IBC 2015	Table 1006.2.1	Min Numbers of Exits Per Space	Group A - only 1 exit required if less than 49 occupants & travel distance is 75'-0" or less. Therefore 2 exist are required	2 provided
IBC 2015	1007.1.1	Separation of Exits	>1/2 the Max Diagonal Building (144'-4" / 2 = 72'-2" min)	141'-11"
IBC 2015	Table 1017.2	Exit Access Travel Distance	Group A, no sprinkler = 200' Max	162'-1" max



1 OCCUPANCY AND EGRESS PATH PLAN
SCALE: 1/8" = 1' - 0"



2 ACCESSIBLE DOOR CLEARANCES
SCALE: N.T.S.

EGRESS PLAN LEGEND	
---	COMMON EGRESS PATH
---	TOTAL DISTANCE

API ARCHITECTS

305 FRANKLIN AVENUE
HOFFMAN ESTATES, IL 60162
OFFICE 815.505.1942

STATE OF ILLINOIS
CHRISTIAN KAUSCHEFSKI
12930
LICENSED ARCHITECT
Signature: *Christian Kauschewski*
Expires: November 30, 2025

BRIDGES OF POPLAR CREEK DRIVING RANGE
1400 POPLAR CREEK DRIVE
HOFFMAN ESTATES, IL 60169

project no. 2002487D
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revision 4:
checked: CM
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CODE INFORMATION & EGRESS PLAN
sheet number:
G002

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PRE-FABRICATED BUILDING SPECIFICATIONS

GENERAL PRE-FAB BUILDING DESCRIPTION

1. POST FRAME BUILDING COLUMN CONSISTING OF A PRE-CAST CONCRETE EMBEDDED PORTION WITH EXPOSED REBAR DOWELS FOR EMBEDMENT IN CAST-IN-PLACE CONCRETE FOOTING. A WOOD UPPER PORTION, AN INTERNAL STEEL BRACKET CONNECTION BETWEEN WOOD AND CONCRETE, AND A STEEL ADJUSTING ROD FOR POST HEIGHT ADJUSTMENT.

STANDARDS

1. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE BY THE AMERICAN CONCRETE INSTITUTE (ACI 318).

2. MANUAL OF STEEL CONSTRUCTION. LOAD AND RESISTANCE FACTOR DESIGN BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).

3. THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS) BY THE AMERICAN FOREST AND PAPER ASSOCIATION (AF&PA).

4. 2015 INTERNATIONAL BUILDING CODE (2015 IBC) BY THE INTERNATIONAL CODE COUNCIL (ICC)

CONCRETE FOUNDATIONS (MINIMUM REQUIREMENTS)

1. CONCRETE COLUMN: 10,000 (NOMINAL) PSI PRE-CAST SELF-CONSOLIDATING CONCRETE (SCC) WITH FOUR (4) CONTINUOUS VERTICAL DEFORMED LOW-ALLOY-STEEL REINFORCING BARS OF ASTM A706 WELDABLE 60 KSI YIELD STRENGTH STEEL. SUPERPLASTICIZERS AND POLYMER FIBER REINFORCEMENT ARE ADDED AS WELL AS OTHER ADMIXTURES TO INCREASE FREEZE/THAW RESISTANCE, RUST RESISTANCE, FLEXURAL AND COMPRESSIVE STRENGTH AS WELL AS OPTIMIZING THE HYDRATION PROCESS.

2. ADJUSTING ANCHOR ROD ASSEMBLY: 36 KSI THREAD ROD AND ASTM A 36 BASE PLATE.

3. INTERNAL STEEL BRACKET: ASTM A 572, GRADE 50, STEEL BRACKET WITH 1/4" DIAMETERS HOLES FOR WOOD FASTENER SCREWS.

WOOD COLUMNS (MINIMUM REQUIREMENTS)

1. FACTORY FABRICATED FROM MINIMUM 3-PLY NO. 1 SYP

2. ATTACH UPPER COLUMN TO LOWER COLUMN WITH APPROPRIATE NUMBER AND SIZE OF PNEUMATICALLY DRIVEN FASTENERS.

3. PROVIDE FACTORY OR FIELD INSTALLED BLOCKING ON OUTSIDE FACE OF COLUMN BETWEEN NAILERS.

WOOD TRUSSES (MINIMUM REQUIREMENTS)

1. LUMBER - ALL MEMBERS TO BE SOUTHERN YELLOW PINE OF SIZE AND GRADE TO MEET DESIGN REQUIREMENTS

2. TRUSSES SHALL BE CONSTRUCTED OF SURFACED LUMBER (S4S) AND COMPLIANT WITH SPIB VISUAL AND STRUCTURAL GRADE REQUIREMENTS

3. PLATES: CONNECTOR PLATES SHALL MEET DESIGN REQUIREMENTS AND SHALL BE COMPLIANT WITH APPLICABLE ICC-ES STANDARDS AND SPECIFICATIONS

4. DESIGN AND FABRICATE TRUSSES AND CONNECTIONS TO WITHSTAND SNOW, WIND AND ALL DEAD LOADS

5. FABRICATE TRUSSES IN PLANT, USING MECHANICAL OR HYDRAULIC FIXTURES AS REQUIRED TO BRING MEMBERS INTO CONTACT. INSTALL PLATES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

OTHER WOOD FRAMING (MINIMUM REQUIREMENTS)

1. BASEBOARDS

a. 2" X 8" NO. 1 SOUTHERN YELLOW PINE WITH 1/2" X 7/16" NOTCH

b. PRESERVATIVE TREATED WITH WOOD PRESERVATIVE TO A RETENTION IN COMPLIANCE WITH APPLICABLE AWPA OR ICC-ES STANDARDS AND SPECIFICATIONS AND KILN DRIED AFTER TREATMENT TO 19% MAXIMUM MOISTURE CONTENT

c. PRESERVATIVE SHALL PENETRATE 100% OF SAWWOOD.

2. WALL GIRTS

a. FIRST NAILER (GIRT) ABOVE BASEBOARD: 2" X 6" NO. 2 OR BETTER SPRUCE-PINE-FIR (SPF)

b. BALANCE OF NAILERS: 2" X 4" 2100 MSR (MINIMUM) SPF

c. OVERHANG TOP NAILER: 2" X 6" NO. 2 OR BETTER SPF

3. BASE REINFORCEMENT - 7/16" X 32" OSB PANELS INSTALLED BETWEEN THE BASEBOARD AND FIRST NAILER AND LOCATED IN NOTCHES.

4. PURLINS AND TRUSS TIES - 2" X 4" NO. 2 OR BETTER SPF

5. OVERHANG FRAMING

a. PROVIDE FACTORY FABRICATED RAFTER FRAMES.

b. PROVIDE 2" X 6" NO. 2 OR BETTER SPF FACTORY BEVELED FASCIA BOARDS.

6. WIND BRACING - 2" X 6" NO. 2 OR BETTER SPF FROM ENDWALL COLUMN TO FIRST TRUSS BACK

7. FRAMING AROUND OPENINGS

a. 2" X 4" 4" NO. 2 OR BETTER SPF AROUND PERSONNEL DOORS.

b. 2" X 6" NO. 2 OR BETTER SPF AROUND OVERHEAD DOOR OPENINGS

8. HEADERS - PROVIDE BUILT-UP HEADERS AS REQUIRED FOR PROPER INSTALLATION.

9. INCIDENTAL FRAMING - 2" X 4" AND/OR 2" X 6" NO. 2 OR BETTER SPF

10. INTERIOR FRAMING - 2" X 4" NO. 2 OR BETTER SPF

11. ROOFING PANELS - 1/2" OSB

METAL SIDING (MINIMUM REQUIREMENTS)

1. PANEL SUBSTRATE SHALL BE 0.019" MINIMUM THICKNESS COMMERCIAL STEEL SHEET WITH G90 (ZINC) COATING PER ASTM A653 OR A255 (ALUMINUM/ZINC) COATING PER ASTM A792

2. THE WEATHER SIDE OF THE PANEL SHALL RECEIVE A NOMINAL TWO TENTHS MIL POLYURETHANE PRIMER AND A NOMINAL EIGHT TENTHS MIL TOPOCOAT OF 705 POLYVINYLIDENE DIFLUORIDE (PVDF) RESIN TO ACHIEVE A TOTAL NOMINAL PAINT FILM THICKNESS OF ONE MIL.

3. COLOR SELECTION OF SIDING PANELS SHALL BE FROM THE MANUFACTURER'S STANDARD COLOR CHART.

4. THE NON-WEATHER SIDE PAINT SYSTEM SHALL CONSIST OF A TWO COAT FINISH WITH A TOTAL NOMINAL THICKNESS OF ONE-HALF MIL.

5. METAL TRIM ITEMS - DIE-FORMED STEEL FROM THE SAME QUALITY MATERIAL AS THE SIDING PANELS

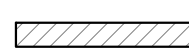
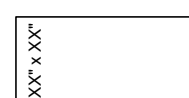



OTHER MATERIALS (MINIMUM REQUIREMENTS)

1. SEALANT - 100% NEUTRAL CURING SILICONE SEALANT, AND PAINTABLE SEALANT WHERE REQUIRED

2. INSULATION - MINIMUM 6" THICK, R19 FIBERGLASS BLANKETS IN WALL

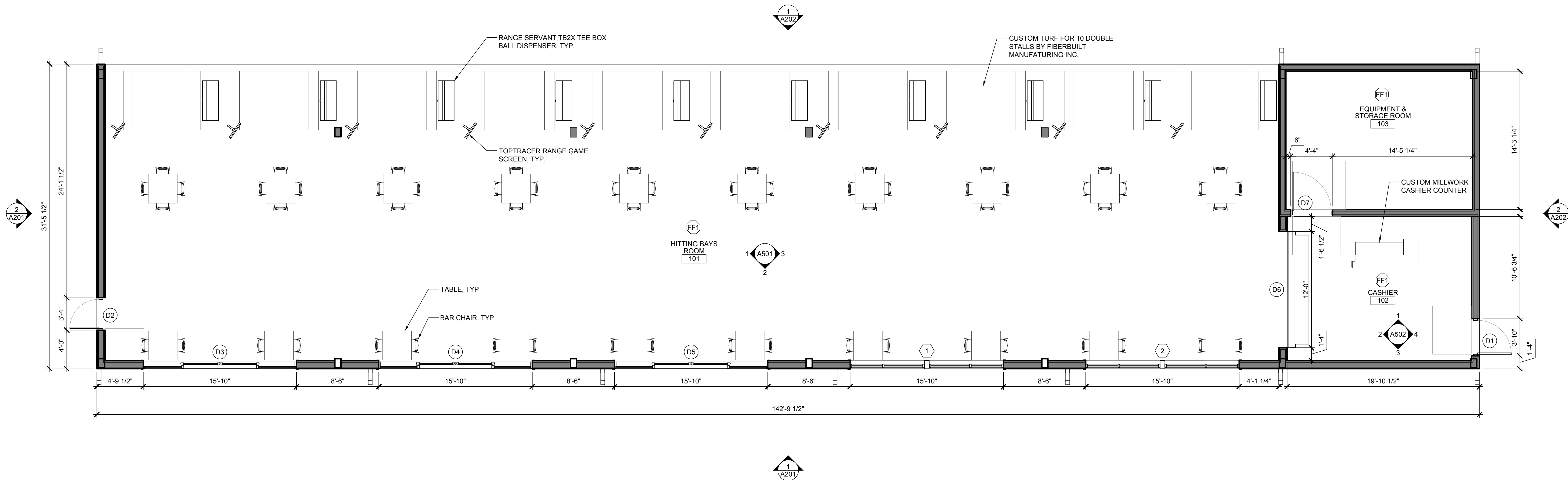
3. VAPOR RETARDER - 4 MIL THICK POLYETHYLENE SHEETS

FLOOR PLAN LEGEND

-  PREFABRICATED WALL CONSTRUCTION
-  CLEAR FLOOR AREA PER ACCESSIBILITY CODES
-  DOOR TAG, SEE DOOR SCHEDULE
-  WINDOW TAG, SEE WINDOW SCHEDULE
-  FINISH TAG, SEE FINISH SCHEDULE

FLOOR PLAN GENERAL NOTES

- A. ALL CONTRACTORS TO VERIFY EXISTING SITE CONDITIONS AND DIMENSIONS BEFORE ANY WORK IS TO BEGIN. NOTIFY ARCHITECT OF DISCREPANCIES.
- B. ALL WORK TO BE DONE IN ACCORDANCE WITH ALL GOVERNING STATE AND LOCAL CODES, ORDINANCES, AND AMENDMENTS.
- C. PROVIDE ALL REQUIRED IN WALL BLOCKING FOR ALL WALL MOUNTED EQUIPMENT, MILLWORK, SHELVING, AND ACCESSORIES.
- D. MOUNT ALL FIXTURES & ACCESSORIES AT HEIGHTS CONFORMING WITH ALL GOVERNING CODES & ACCESSIBILITY REQUIREMENTS.
- E. ALL WOOD BLOCKING AND PLYWOOD TO BE FIRE TREATED.
- F. FIRE EXTINGUISHERS ARE SUPPLIED AND INSTALLED BY THE G.C. QUANTITIES AND LOCATIONS TO BE COORDINATED W/ THE LOCAL FIRE DEPARTMENT.
- G. ALL DIMENSIONS ARE NOMINAL & ARE FROM FACE OF GYPSUM BOARD, SHEATHING, OR SUBSTRATE.
- H. PROVIDE CONTINUOUS BEAD OF CLEAR SILICONE SEALANT AT INTERIOR SIDE OF ALL WALL TRANSITIONS. SEAL ALL NEW AND EXISTING OPENINGS IN FLOORS, STRUCTURAL DECK AND EXTERIOR WALLS IN ORDER TO PROVIDE A WEATHER TIGHT SEAL.
- I. ALL WALLS ARE AT 90° UNLESS NOTED OTHERWISE.
- J. PROPERLY PREPARE & CLEAN SUBSTRATES & SURFACES AS REQUIRED TO ACCEPT FINISHES, MATERIALS, TREATMENTS, ETC.



REFLECTED CEILING PLAN
LEGEND

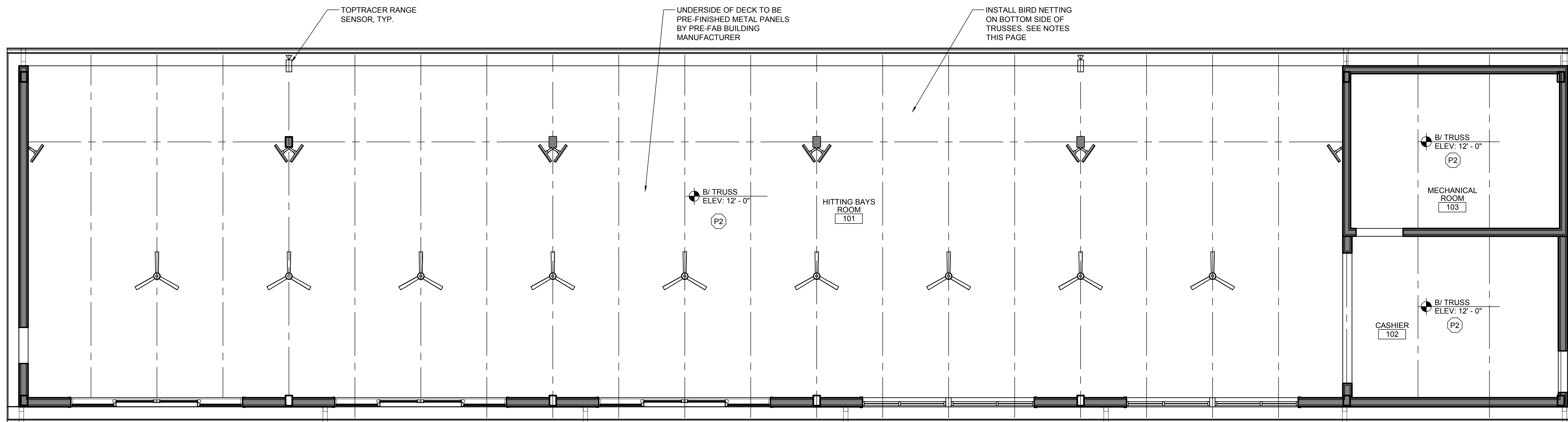
- INDICATES CEILING HEIGHT
- CEILING FAN
- SEE ELECTRICAL AND MECHANICAL SHEETS FOR
LIGHTING AND HEATING LOCATIONS AND
SPECIFICATIONS

BIRD NET
SPECIFICATIONS

- A. BIRD.B.GONE BIRD NET 2000.
- B. 3/4" UV-STABILIZED, FLAME-RESISTANT, ROT-PROOF,
NON-CONDUCTIVE POLYETHYLENE KNOTTED NET.
- C. FASTEN TO BOTTOM CHORD OF ROOF TRUSSES WITH
BIRD.B.GONE SUPPORTS AT CORNERS AND
INTERMEDIATE SPACED AT 1'-0" O.C. MAX.
- D. INSTALL (1) 6'-0" ZIPPER (VIA HOG RINGS) IN EACH BAY
ADJACENT TO TRUSS AT 1/4 POINT FROM BACK WALL.
- E. COLOR: BLACK.

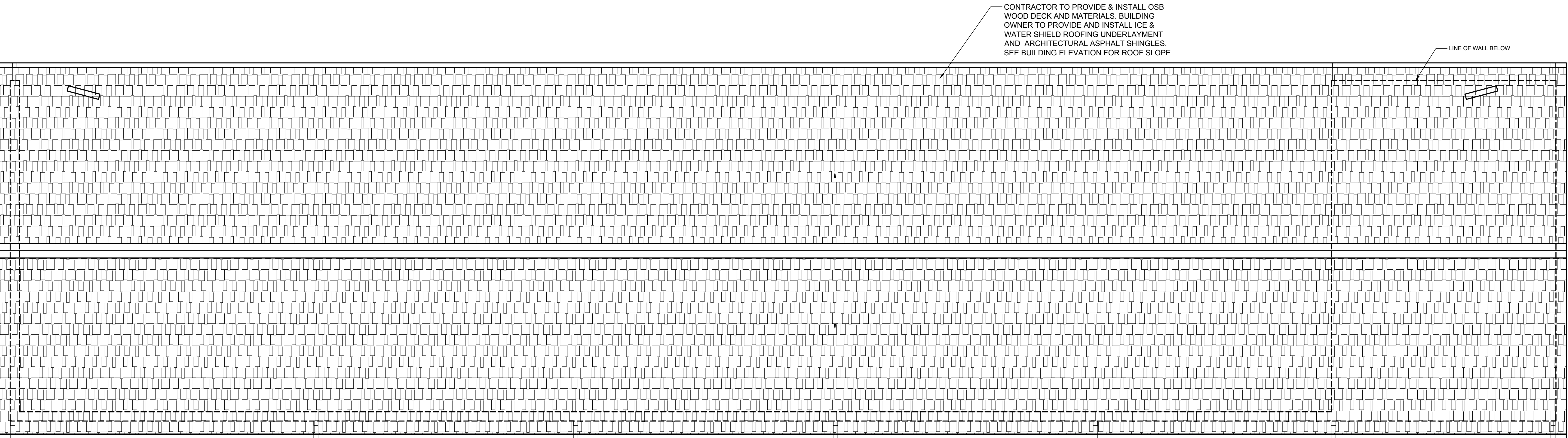
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GOVERNING STATE AND LOCAL CODES, ORDINANCES,
AND AMENDMENTS.
- C. ALL DIMENSIONS ARE FROM FACE OF SUBSTRATE UNLESS
NOTED OTHERWISE
- D. ALL CEILING HEIGHTS ARE TAKEN FROM PROJECT 0'-0".
- E. SEE ELECTRICAL DRAWINGS FOR LIGHTING SCHEDULE
AND SPECIFICATIONS.
- F. COORDINATE LOCATION OF LIGHT FIXTURES AND POWER
SUPPLY WITH ELECTRICAL DRAWINGS.
- G. CONTRACTOR TO SUBMIT LIGHTING CUTS TO OWNER FOR
APPROVAL PRIOR TO ORDERING. CONTRACTOR SHALL
VERIFY LIGHTING CATALOG NUMBER WITH ELECTRICAL
DRAWINGS AND NOTIFY THE OWNER OF ANY
DISCREPANCIES.
- H. PROVIDE MIN. 24"x24" ACCESS PANELS TO ALL EQUIPMENT
WHICH REQUIRE MAINTENANCE ACCESS THAT ARE
LOCATED ABOVE GYPSUM BOARD CEILINGS. PAINT TO
MATCH COLOR OF ADJACENT CEILING. COORDINATE
LOCATION OF ACCESS PANELS WITH MECHANICAL
DRAWINGS.
- I. GENERAL CONTRACTOR TO COORDINATE LIGHT FIXTURE
CLEARANCE REQUIREMENTS WITH ABOVE CEILING
UTILITIES, I.E. PLUMBING, CONDUIT & DUCTWORK, BEFORE
COMMENCING WORK.
- J. PAINT ALL EXPOSED DUCT WORK, PIPING, CONDUIT, AS
INDICATED ON THE REFLECTED CEILING PLANS, FLOOR
PLANS, AND ELEVATIONS.
- K. ELECTRICAL CONTRACTOR TO VERIFY ALL LOCATIONS OF
WALL MOUNTED CLOCK OUTLETS, J-BOXES, AND ITEMS
PROVIDED BY THE OWNER, SEE ELECTRICAL DRAWINGS.
- L. GENERAL CONTRACTOR TO PROVIDE POWER FOR
EXTERIOR SIGNAGE. COORDINATE WITH TENANT'S
SIGNAGE CONTRACTOR.
- M. GENERAL CONTRACTOR TO INSTALL CONDUIT AND PULL
STRINGS IN CEILING AS REQUIRED BY CODE FOR LOW
VOLTAGE SYSTEMS. COORDINATE WITH OWNER'S SOUND
SYSTEM VENDOR AND SECURITY CAMERA VENDOR.
- N. GENERAL CONTRACTOR TO COORDINATE LOCATION OF
ALL FIRE ALARM DEVICES PRIOR TO INSTALLATION.



1 REFLECTED CEILING PLAN
SCALE: 3/16" = 1'-0"





ROOF PLAN LEGEND

→ - - ARROW INDICATES DIRECTION OF ROOF SLOPE

ASPHALT SHINGLE ROOFING SYSTEM

PITCHED ROOF CLADDING PRODUCT TO BE APPROVED BY THE OWNER PRIOR TO ORDER AND CONSTRUCTION

USE CERTAINTEEED 'LANDMARK' ARCHITECTURAL SHINGLES W / LIFETIME WARRANTY. (SEE ELEVATIONS FOR COLOR)

ROOF SYSTEM MUST BE INSTALLED BY A CERTAINTEEED AUTHORIZED ROOFING APPLICATOR (IF APPLICABLE).

USE 30# ROOFING FELT UNDER CERTAINTEEED SHINGLE SYSTEM. ICE AND WATER SHIELD TO BE INSTALLED 18" EACH SIDE OF RIDGE, 36" AT EAVES.

ALL FLASHING TO HAVE METAL DRIP EDGE AND TO EXTEND UNDER ICE AND WATER SHIELD 8" MINIMUM.

- ROOF GENERAL NOTES
- A. PROVIDE A COMPLETE AND WATER TIGHT ROOFING SYSTEM THAT MAINTAINS THE ROOF SYSTEM MANUFACTURER'S WARRANTY.
 - B. PROCEED WITH WORK ONLY WHEN WEATHER CONDITIONS PERMIT WORK TO PROCEED WITHOUT WATER ENTERING THE ROOFING SYSTEM.
 - C. PROTECT ALL MATERIAL FROM SATURATION OF WATER PRIOR TO FINAL INSTALLATION OF ROOF MEMBRANE.
 - D. MAINTAIN ROOF DRAINS IN FUNCTIONING CONDITION TO ENSURE ROOF DRAINAGE AT END OF EACH WORK DAY. PREVENT DEBRIS FROM ENTERING OR BLOCKING ROOF DRAINS.
 - E. ALL METAL FASTENERS TO BE CORROSION RESISTANT.
 - F. ALL INSTALLED MATERIALS TO BE COMPATIBLE WITH ONE ANOTHER CAUSING NO DELETERIOUS EFFECTS.
 - G. SEE M.E.P. SHEETS FOR VENTING PENETRATIONS LOCATIONS.

1 ROOF PLAN
SCALE: 3/16" = 1'-0"



API ARCHITECTS

305 FRANKLIN AVENUE
HOFFMAN ESTATES, IL 60142
OFFICE 312.505.1942

STATE OF ILLINOIS
CHRISTIAN KALISCHESKI
12930
LICENSED ARCHITECT

Signature Expires: November 30, 2025

BRIDGES OF POPLAR CREEK DRIVING RANGE
1400 POPLAR CREEK DRIVE
HOFFMAN ESTATES, IL 60169

project no. 2002487D
date: 05.19.2021 BID
revision 1:
revision 2:
revision 3:
revision 4:
checked: CM
drawn: SC

sheet title: ROOF PLAN
sheet number: A131

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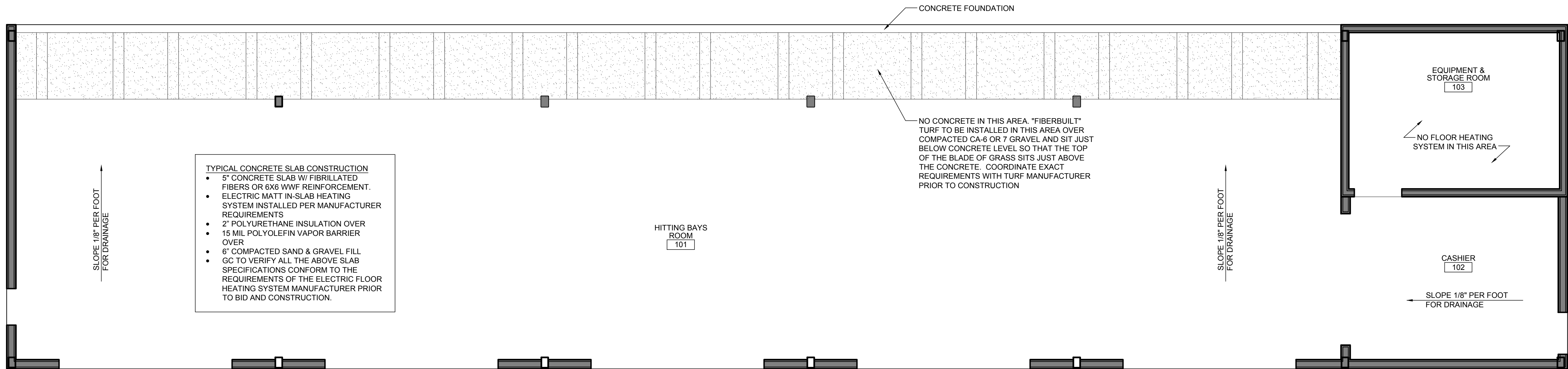
REINFORCED CONCRETE GENERAL NOTES

REINFORCED CONCRETE NOTES

- ALL CAST-IN-PLACE CONCRETE SHALL BE OF THE TYPES AND HAVING MINIMUM 28-DAY COMPRESSIVE STRENGTHS AS FOLLOWS:
FOOTINGS AND FOUNDATION WALLS: 4,000 PSI
SLABS-ON-GRADES: 4,000 PSI
MISCELLANEOUS FILLS AND PADS: 4,000 PSI
- ALL CONCRETE SHALL CONTAIN AN APPROVED WATER REDUCING PLASTICIZING ADMIXTURE. APPROVED, HIGH-RANGE, WATER REDUCING ADMIXTURES MAY BE UTILIZED. ALL CONCRETE FOR PERIMETER FOUNDATION WALLS AND OTHER EXTERIOR EXPOSED CONCRETE SHALL ALSO CONTAIN AN APPROVED AIR-ENTRAINING ADMIXTURE.
- ALL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO THE STANDARDS OF ASTM A615, GRADE 60. $F_y = 60,000$ PSI OR ASTM A775, GRADE 60 EPOXY COATED REBAR.
- ALL WELDED WIRE FABRIC SHALL CONFORM TO THE STANDARDS OF ASTM A185.
- ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED, SPACED IN FORMS, AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," ACI 318, AND THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315.
- THE CONTRACTOR SHALL SUBMIT CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING, PLACEMENT, AND SUPPORT DETAILS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING THE LOCATION OF ALL CONSTRUCTION JOINTS, CURBS, SLAB DEPRESSIONS, SLEEVES, OPENINGS, AND EMBEDMENTS TO ARCHITECT FOR REVIEW PRIOR TO CONCRETE PLACEMENT.
- ALL REINFORCING SPLICES SHALL CONFORM TO THE REQUIREMENTS OF ACI 318, BUT IN NO CASE SHALL BE LESS THAN 36 BAR DIAMETERS, UNLESS NOTED OTHERWISE.
- ALL WELDED WIRE FABRIC SHALL BE LAPPED TWO (2) FULL MESH PANELS AND TIED SECURELY.
- WHERE REQUIRED, DOWELS SHALL MATCH THE SIZE AND NUMBER OF MAIN REINFORCING, UNLESS NOTED OTHERWISE.
- ALL WALLS AND STRUCTURAL SLABS SHALL BE REINFORCED WITH MINIMUM NO. 4 AT 12" O.C. EACH WAY, EACH FACE, UNLESS NOTED OTHERWISE. ALL SLABS-ON-GRADE SHALL BE REINFORCED WITH AT LEAST ONE (1) LAYER OF 6X6 - W1.4XW1.4 W.W.F., UNLESS NOTED OTHERWISE. PROVIDE ONE (1) LAYER OF 6X6 - W1.4XW1.4 W.W.F. CONTINUOUS IN ALL CONCRETE FILLS ABOVE THE STRUCTURAL SLAB. ALL MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT PADS SHALL BE REINFORCED WITH AT LEAST ONE (1) LAYER OF 6X6 W.W.F. (SEE HVAC, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL REINFORCING REQUIREMENTS FOR PADS.)
- ADDITIONAL BARS SHALL BE PROVIDED AROUND ALL FLOOR AND WALL OPENINGS, AS SHOWN ON DETAILS.
- CONSTRUCTION JOINTS IN ALL WALLS SHALL NOT BE FURTHER APART THAN 60 FEET IN ANY DIRECTION.
- ALL CONSTRUCTION JOINTS SHALL BE WIRE BRUSHED, CLEANED AND MOISTENED IMMEDIATELY PRIOR TO PLACING NEW CONCRETE.
- PLACE ALL SLABS-ON-GRADE IN A CHECKERBOARD FASHION BETWEEN CONSTRUCTION JOINTS ALONG COLUMN CENTERLINES WITH A MINIMUM OF 24 HOURS BETWEEN ADJACENT POURS OR BE IN STRIP POURS OF MAXIMUM 15'-0" WIDTH. STRIP POURED SLABS SHALL HAVE SAWCUT CENTRAL JOINTS AS SHOWN ON FOUNDATION PLAN.
- NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
- ALL BAR SUPPORTS SHALL BE GALVANIZED. BAR SUPPORTS IN CONTACT WITH EXPOSED SURFACES SHALL ALSO BE PLASTIC TIPPED.
- FOOTINGS AND WALLS SHALL NOT BE SLEEVED OR BOXED-OUT OR HAVE THE REINFORCING INTERRUPTED, EXCEPT AS SHOWN ON THE STRUCTURAL DRAWINGS.
- SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF ALL FLOOR FINISHES, FLOOR DEPRESSIONS AND CURBS.
- SEE ARCHITECTURAL, HVAC, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WALL/SLAB OPENINGS.
- PROVIDE APPROVED CURING COMPOUND AND SEALER FOR THE TOP SURFACE OF ALL SLAB WORK, UNLESS NOTED OTHERWISE.
- OPENINGS:
A. OPENING SHOWN ARE FOR BIDDING PURPOSES ONLY. COORDINATE THE EXACT SIZE AND LOCATIONS WITH HVAC, PLUMBING, AND OTHER APPLICABLE TRADES BEFORE PROCEEDING WITH WORK.
B. IF ANY OPENING NOT SHOWN ON THE PLAN IS REQUIRED, SECURE APPROVAL OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING.
C. PROVIDE TWO #5 BARS AROUND ALL SLAB AND WALL OPENINGS, EXTENDING 2 FEET BEYOND OPENING IN EVERY DIRECTION, U.N.O., OPENINGS NOT EXCEEDING 16 INCHES X 16 INCHES MAY BE SLEEVED AS REQUIRED BY WORKING THE REINFORCING STEEL AROUND THEM.
- FOOTINGS AND PIERS:
A. PROVIDE DOWELS IN FOOTINGS TO MATCH VERTICAL PIER OR WALL REINFORCING U.N.O.
B. PROVIDE CORNER BARS AT WALL CORNERS TO MATCH HORIZONTAL REINFORCING. MINIMUM LAP LENGTH WITH HORIZONTAL REINFORCEMENT - 45 BAR DIAMETERS
C. CAST IN CONTINUOUS DOVETAIL ANCHOR SLOTS ON VERTICAL SURFACES WHERE MASONRY ABUTS, 16 INCHES O.C. PARALLEL SURFACES AT CENTERLINE OF MASONRY FOR PERPENDICULAR SURFACES.
D. PROVIDE LEAN CONCRETE (CLASS IV) UNDER FOUNDATIONS FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS TRENCHES.
- SPLICES - UNLESS NOTED OTHERWISE, MINIMUM LAB SPLICE LENGTHS SHALL BE AS FOLLOWS:
A. VERTICAL BARS IN PIERS, (INCLUDING DOWELS): 48 BAR DIAMETERS
B. HORIZONTAL BARS IN SLABS & FOOTINGS: 48 BAR DIAMETERS
- CONSTRUCTION JOINTS:
A. CONSTRUCTION JOINTS ARE PERMITTED ONLY WHERE SHOWN ON THE CONTRACT DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER. ALL CONSTRUCTION JOINTS SHALL BE KEYED. KEYWAYS SHALL BE 1-1/2 INCHES DEEP X 1/3 MEMBER THICKNESS.
- CONCRETE COVER: UNLESS NOTED OTHERWISE, DETAIL REINFORCING TO PROVIDE CONCRETE COVER AS FOLLOWS:
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 INCHES
B. CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 BARS THROUGH #18 BARS: 2 INCHES
#5 BARS AND SMALLER OTHERS: 1 1/2 INCHES
C. SLABS, JOINTS, AND WALLS NOT EXPOSED TO EARTH OR WEATHER:
#14 BARS AND #18 BARS: 1 1/2 INCHES
#11 BARS AND SMALLER: 3/4 INCH
D. BEAMS, COLUMNS, PEDESTALS, AND TENSION TIES NOT EXPOSED TO EARTH OR WEATHER: 1 1/2 INCHES
- MISCELLANEOUS:
A. GROUT UNDER BEARING PLATES, SETTING PLATES, AND COLUMN BASE PLATES SHALL BE NON-SHRINKING TYPE. THE USE OF LEVELING PLATES AT COLUMN BASES IS PROHIBITED. GROUT BELOW BEARING PLATES, SETTING PLATES, AND COLUMN BASE PLATES SHALL BE INSTALLED ONLY AFTER THE STEEL IN PLUMBED, CONCRETE
- CUTTING AND BORING:
A. CONCRETE CUTTING AND BORING METHODS ARE "WAYS AND MEANS" OF CONSTRUCTION AND SHALL BE DETERMINED BY THE CONTRACTOR.

TURF MANUFACTURER

FIBERBUILT MANUFACTURING INC.
PROJECT NUMBER: FG 112020-02
3613 - 63 AVENUE N.E.
CALGARY, ALBERTA, CANADA
T3J 5K1
833.328.3218
INFO@FIBERBUILT.COM



1 SLAB PLAN
SCALE: 3/16" = 1'-0"



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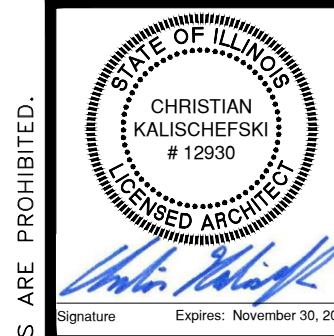
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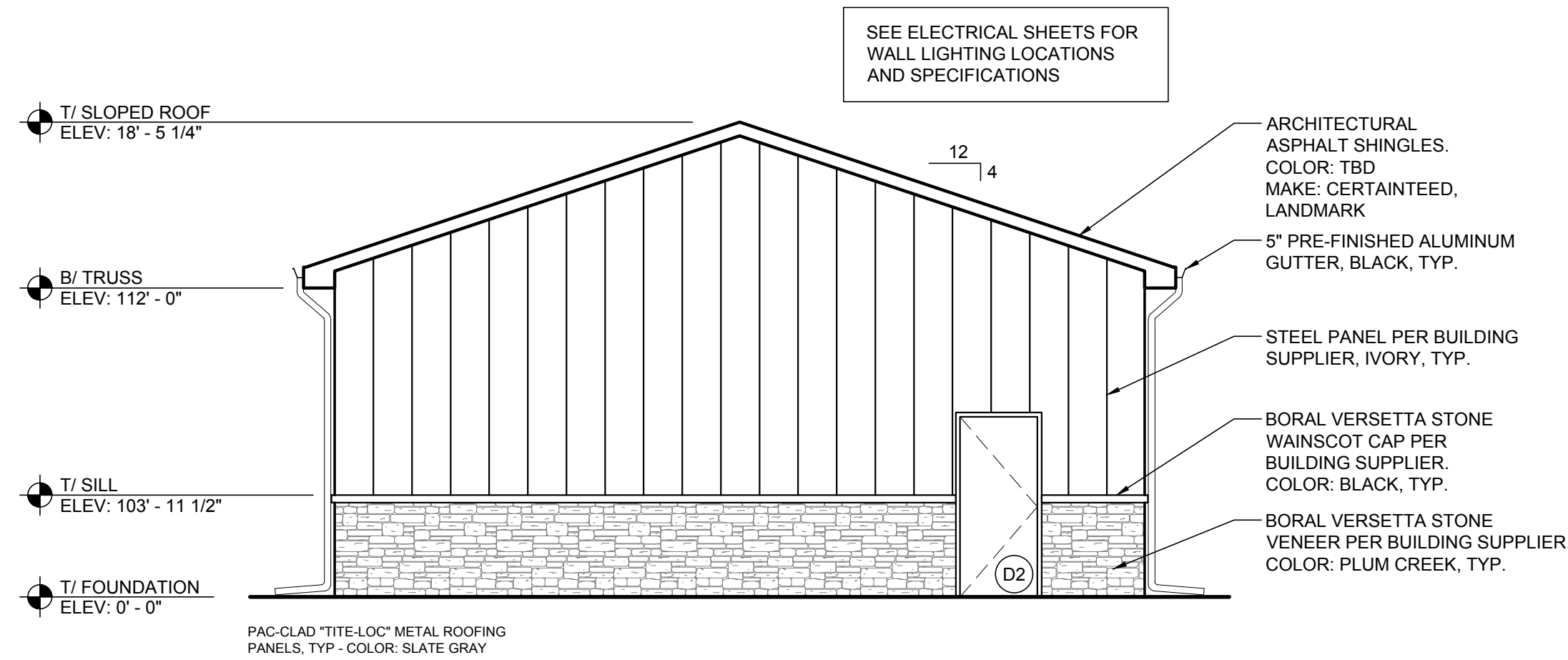
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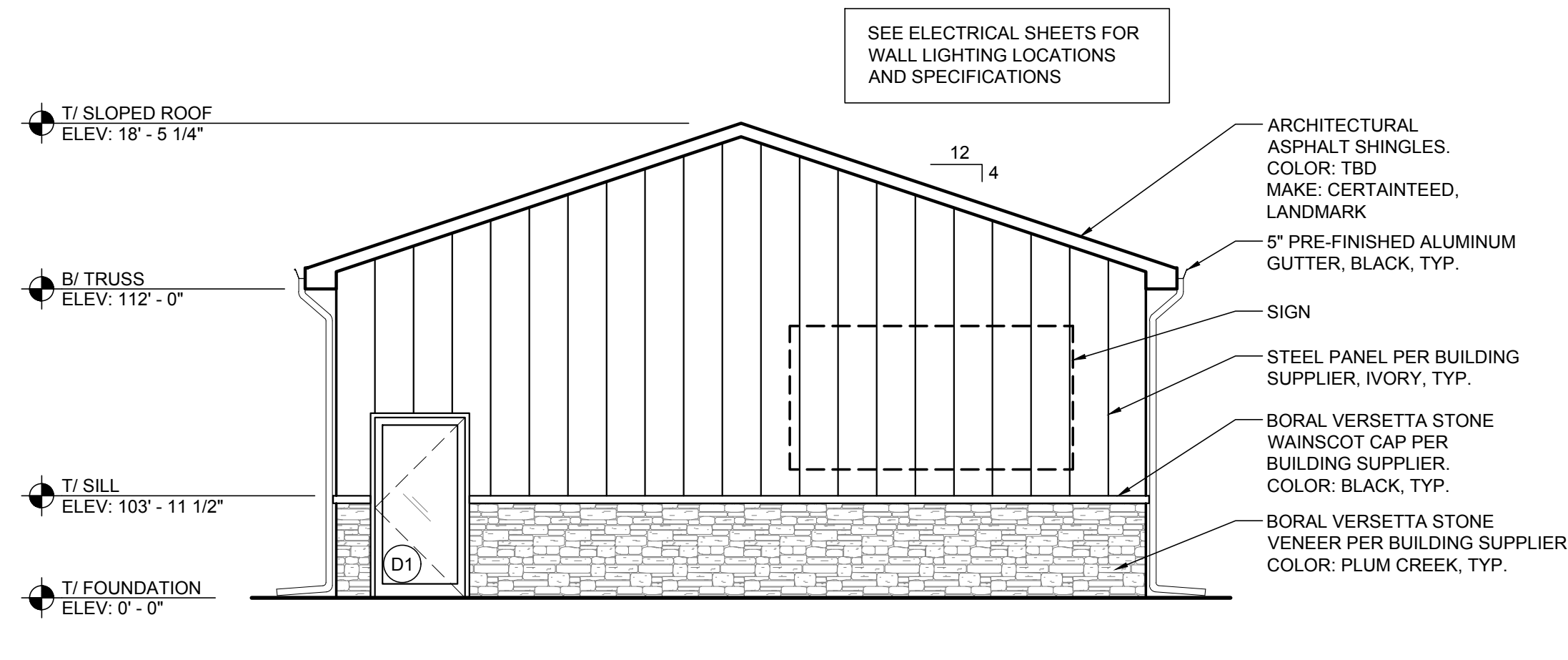
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ARCHITECTS
API
2015 RAKOW AVENUE
HOFFMAN ESTATES, IL 60169
OFFICE: 815.509.1942





1 SIDE ELEVATION
SCALE: 3/16" = 1'-0"



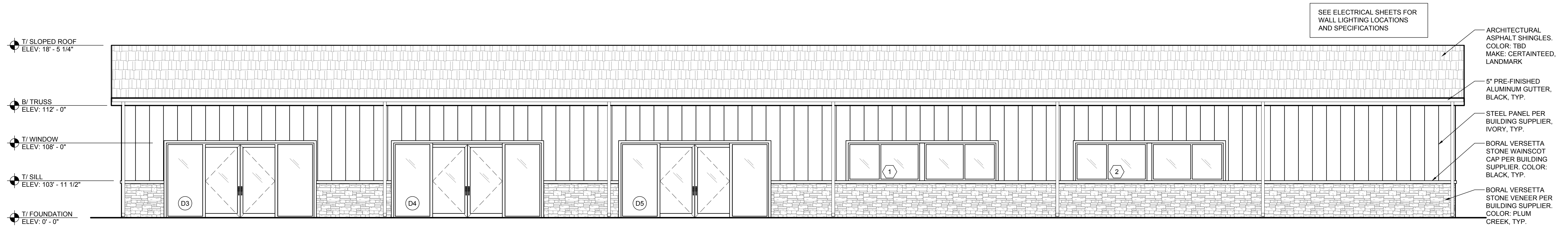
2 SIDE ELEVATION
SCALE: 3/16" = 1'-0"

ELEVATION GENERAL NOTES

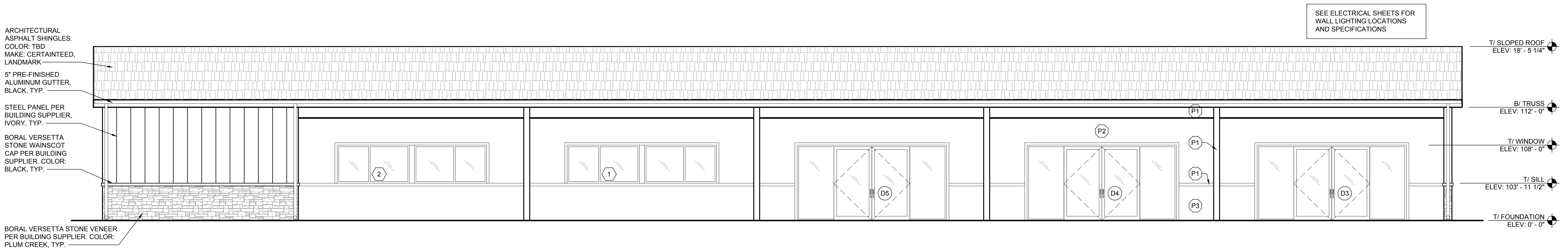
- ALL METAL COMPONENTS TO BE CORROSION RESISTANT.
- ALL INSTALLED MATERIALS TO BE COMPATIBLE WITH ONE ANOTHER CAUSING NO DELETERIOUS EFFECTS.
- PROVIDE WEATHER TIGHT SEAL AROUND ALL PENETRATIONS THROUGH BUILDING ENVELOPE.

ELEVATION LEGEND

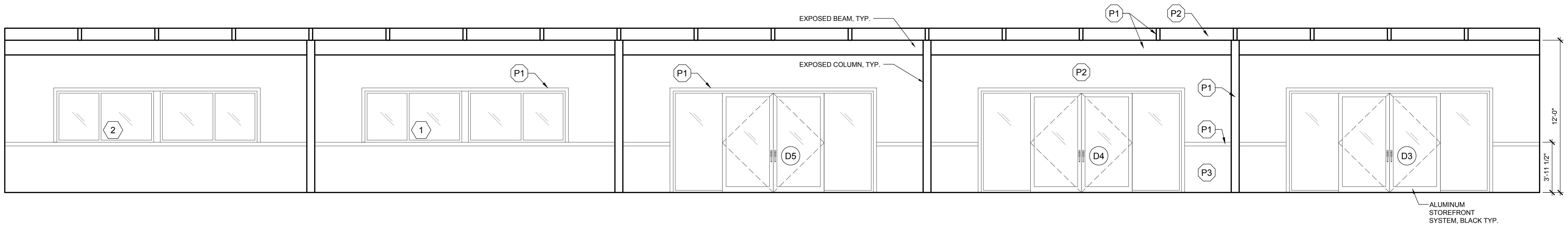
- (X) DOOR - SEE DOOR SCHEDULE ON SHEET A701
- (X) FINISH - SEE FINISH SCHEDULE ON SHEET A702
- (X) WINDOW - SEE WINDOW SCHEDULE ON SHEET A703



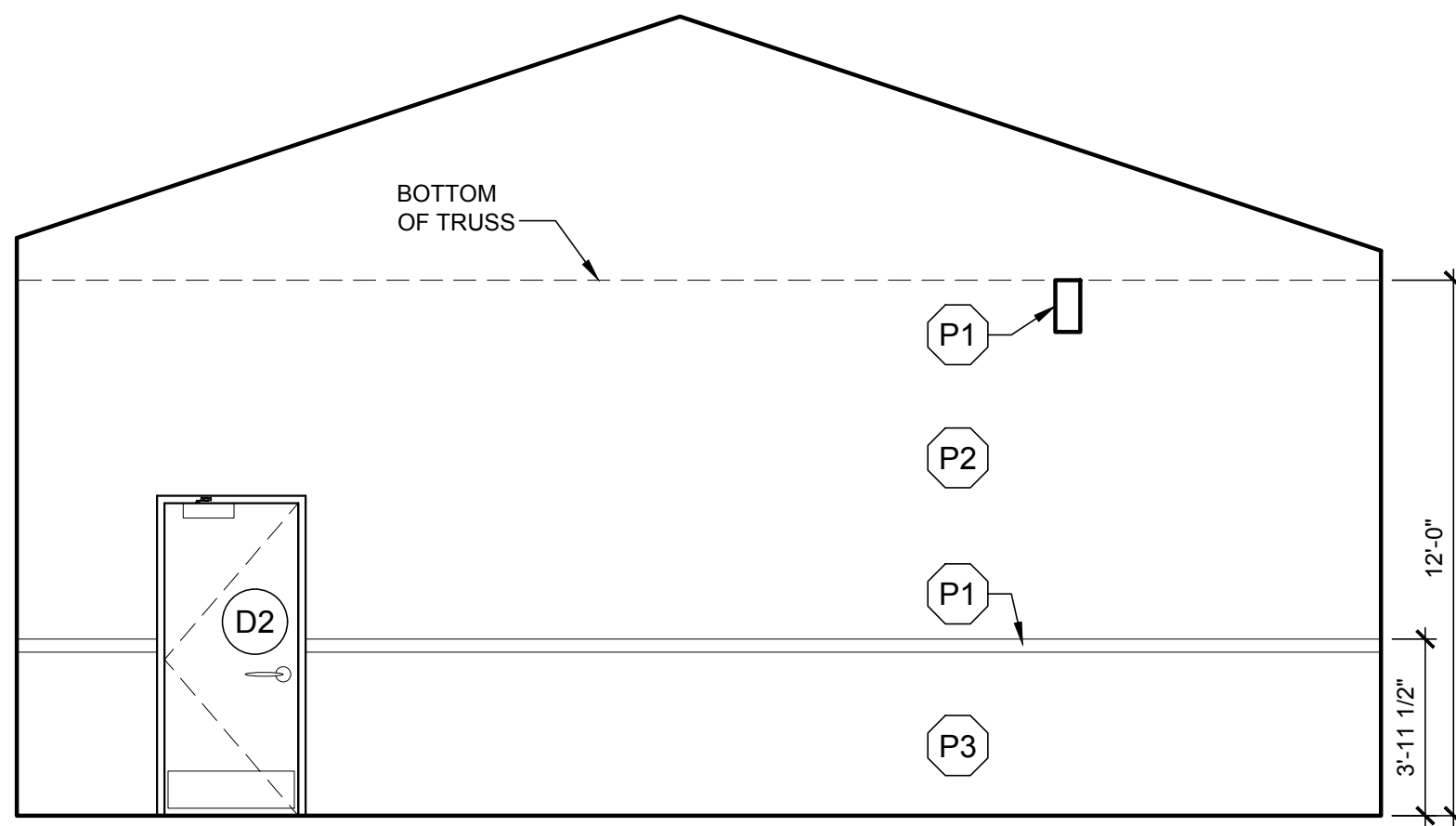
3 REAR ELEVATION
SCALE: 3/16" = 1'-0"



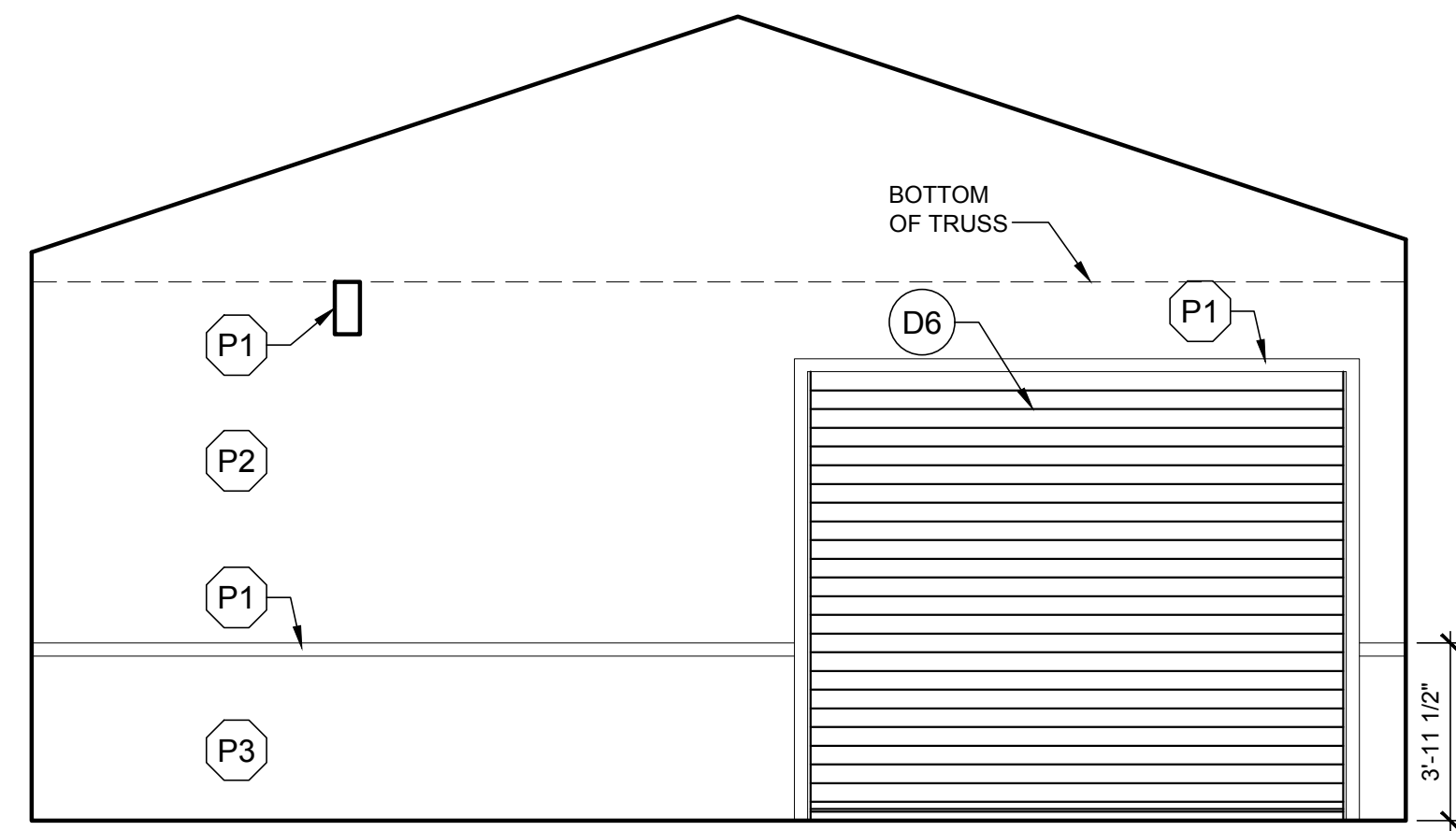
4 FRONT ELEVATION
SCALE: 3/16" = 1'-0"



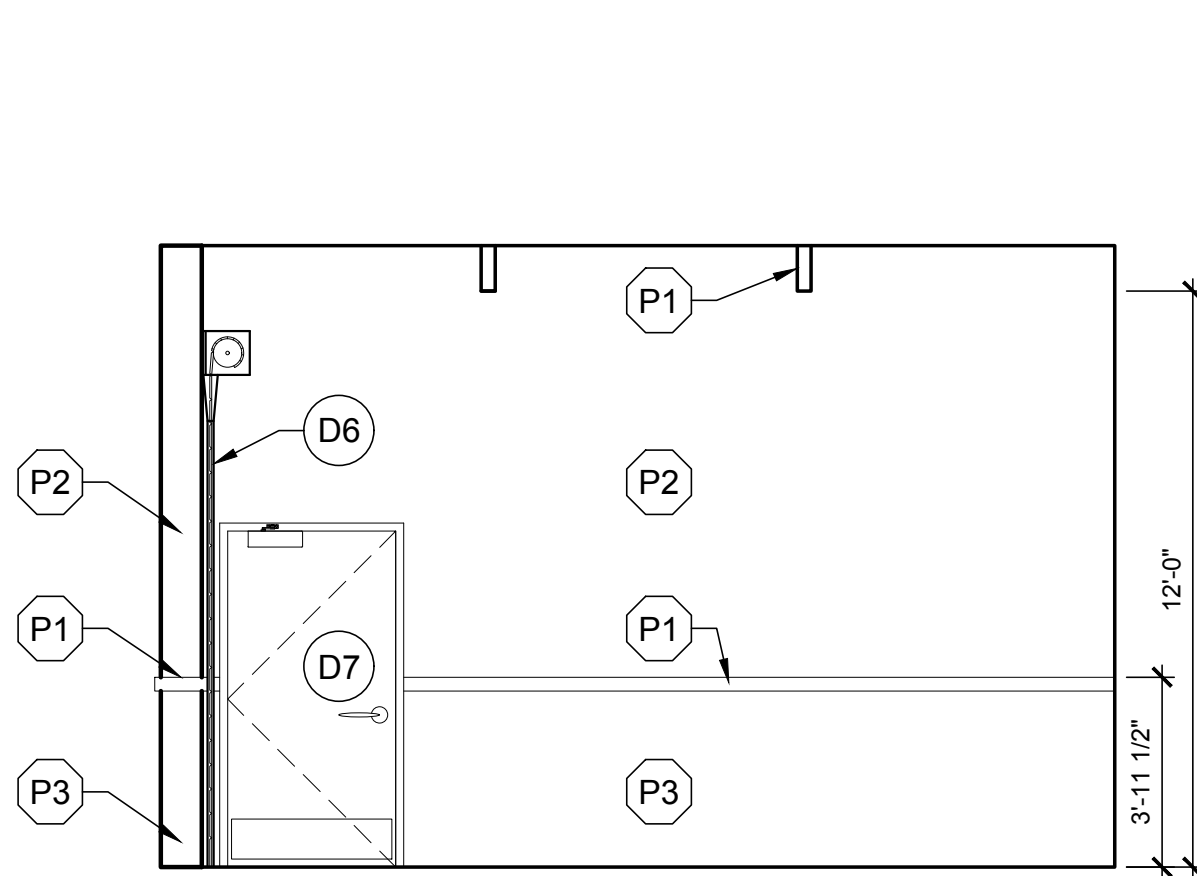
1 HITTING BAYS ROOM ELEVATION
SCALE: 1/4" = 1'-0"



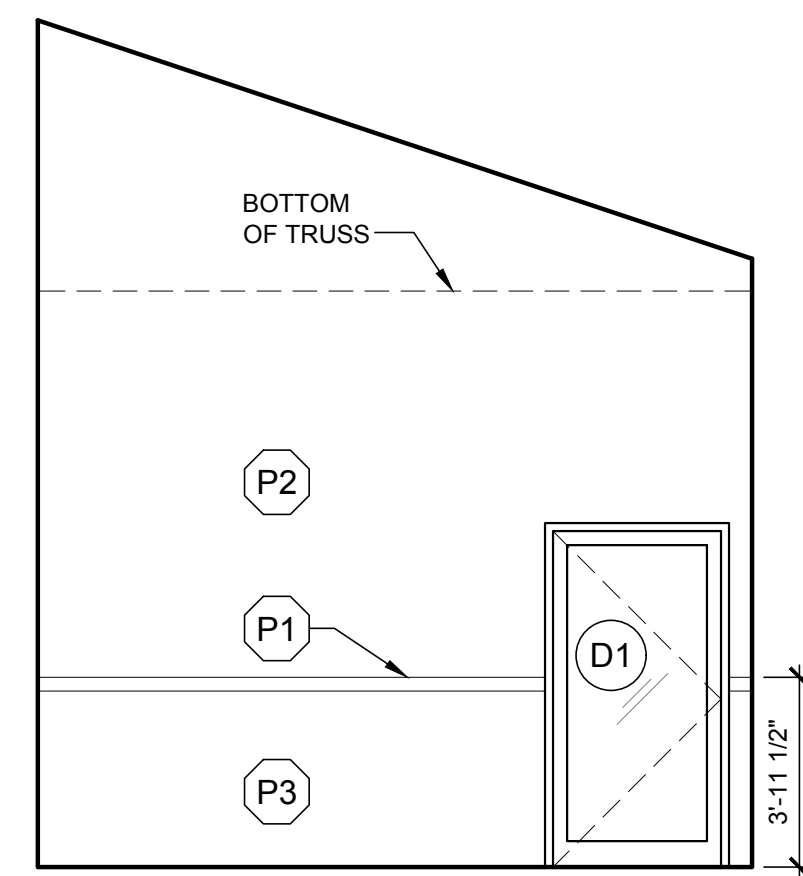
2 HITTING BAYS ROOM ELEVATION
SCALE: 1/4" = 1'-0"



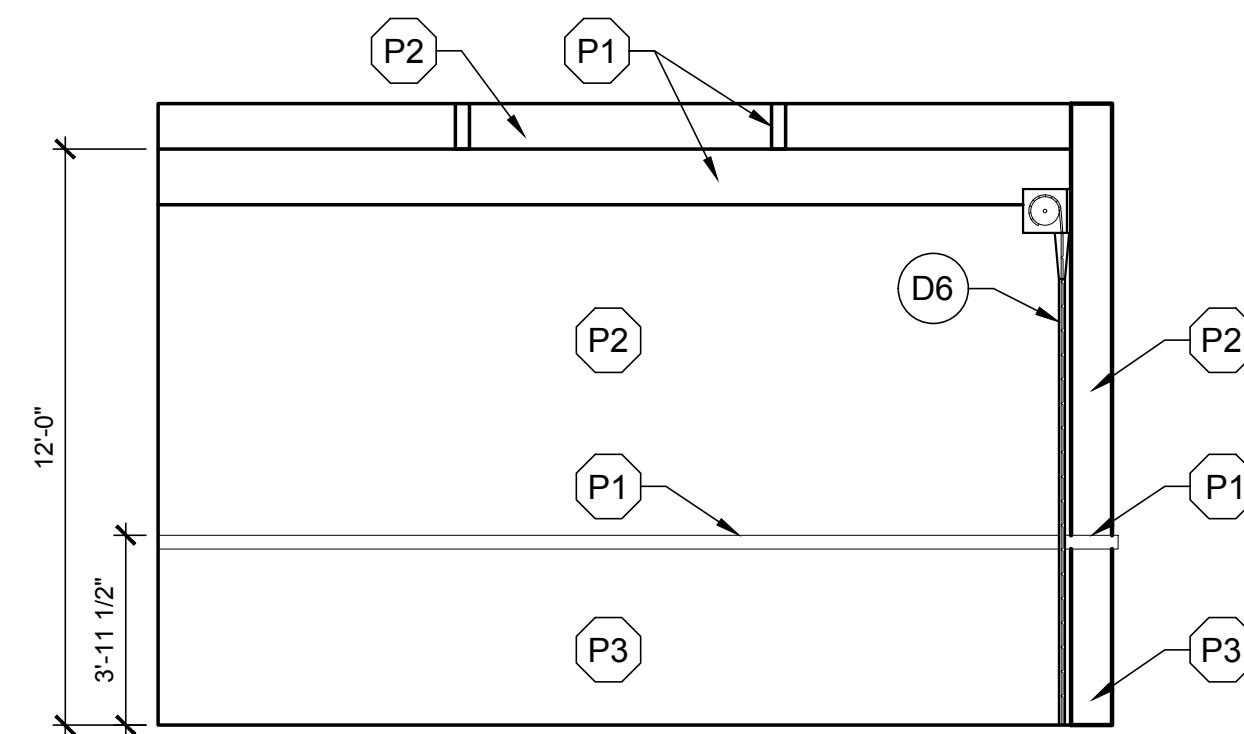
3 HITTING BAYS ROOM ELEVATION
SCALE: 1/4" = 1'-0"



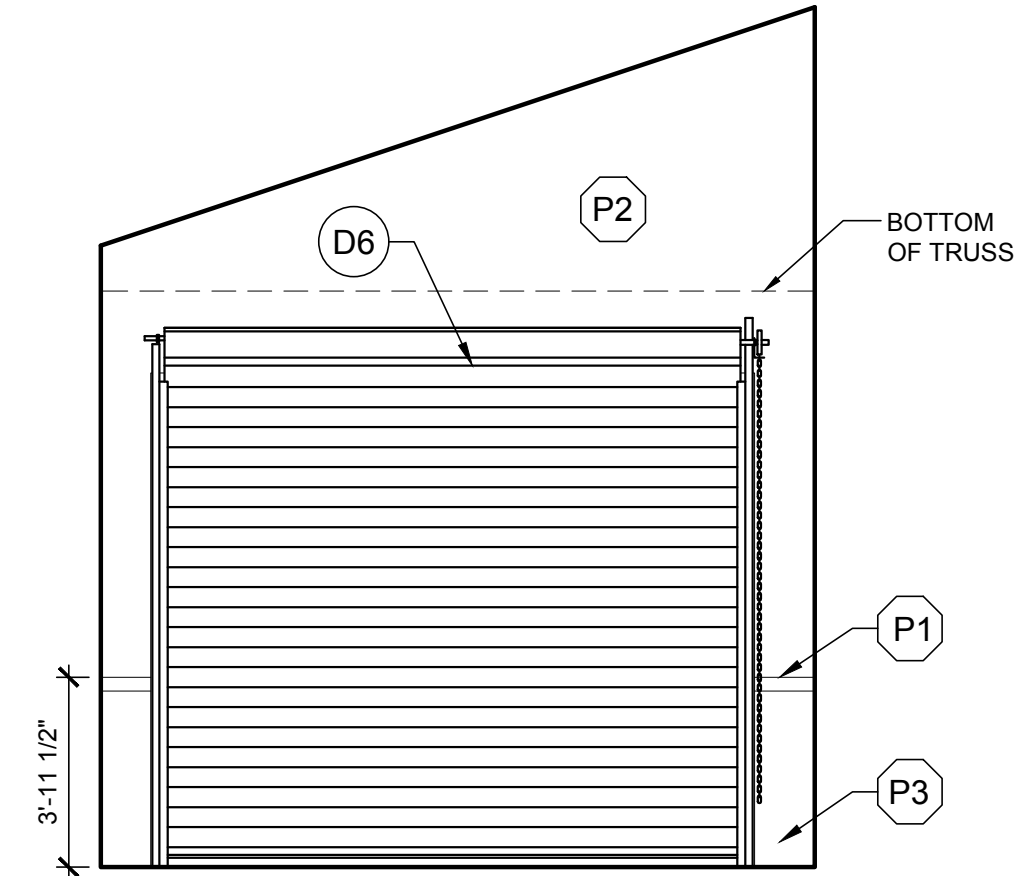
4 CASHIER ELEVATION
SCALE: 1/4" = 1'-0"



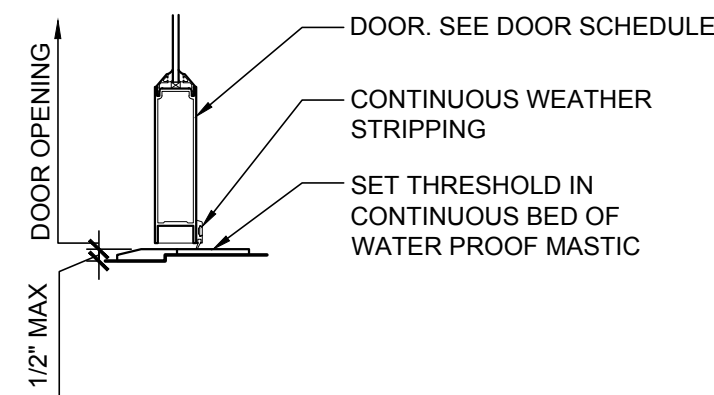
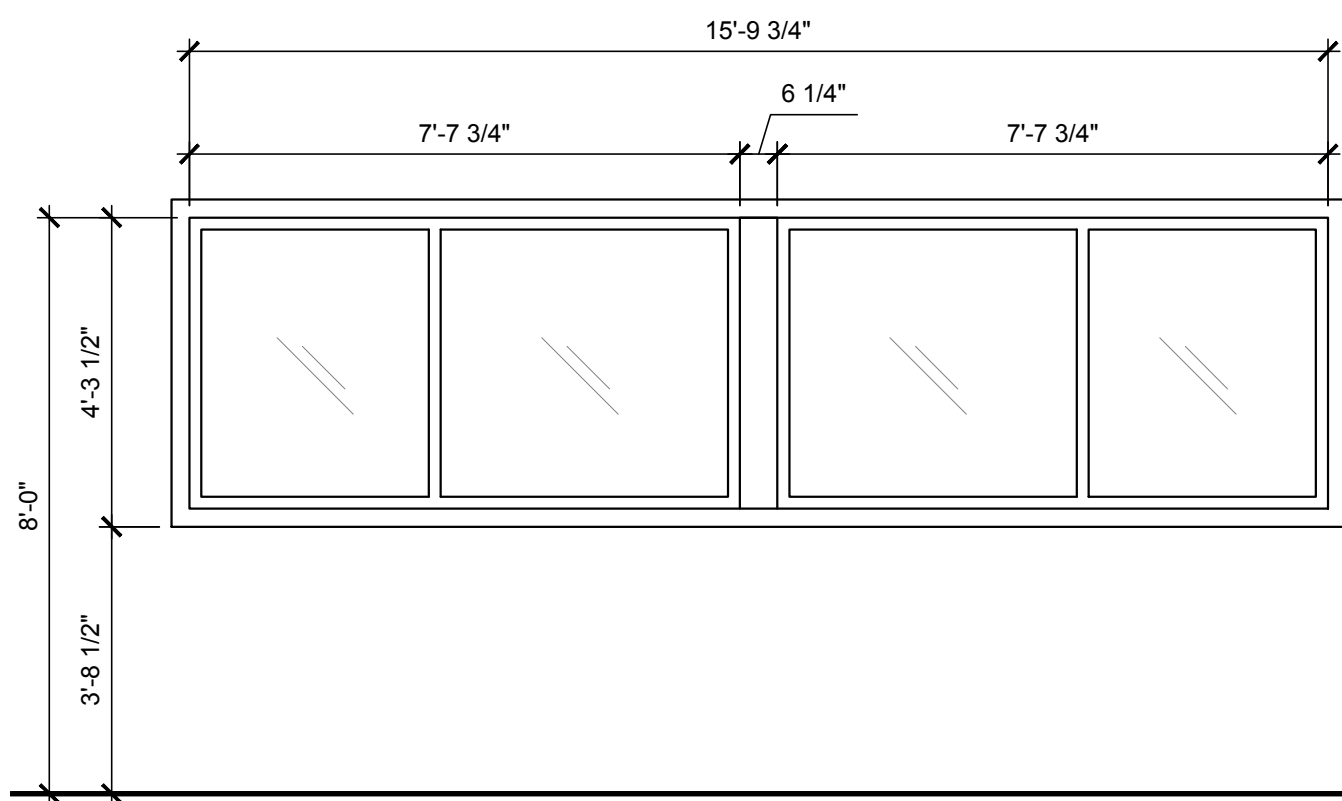
5 CASHIER ELEVATION
SCALE: 1/4" = 1'-0"



6 CASHIER ELEVATION
SCALE: 1/4" = 1'-0"



7 CASHIER ELEVATION
SCALE: 1/4" = 1'-0"



DOOR SCHEDULE (X)										
TAG	ROOM NAME	DOOR SIZE	FRAME SIZE	DOOR TYPE	MATERIAL DOOR / FRAME	THRESHOLD DETAIL	MANUFACTURER	HARDWARE	FIRE RATING	COMMENTS
D1	CASHIER ENTRY	3'-6" x 7'-0"	3'-10" x7'-2"	B	CLAD WOOD	-	JELD-WEN	-	0-HOUR	SEE SPECIFICATIONS BELOW
D2	HITTING BAY EXTERIOR	3'-0" x 7'-0"	3'-4" x7'-2"	C	H.M.	-	CURRIES OR EQUAL	-	0-HOUR	-
D3	HITTING BAY SLIDER	(2) 4'-0" x 8'-0"	-	A	CLAD WOOD	-	JELD-WEN	-	0-HOUR	SEE SPECIFICATIONS BELOW
D4	HITTING BAY SLIDER	(2) 4'-0" x 8'-0"	-	A	CLAD WOOD	-	JELD-WEN	-	0-HOUR	SEE SPECIFICATIONS BELOW
D5	HITTING BAY SLIDER	(2) 4'-0" x 8'-0"	-	A	CLAD WOOD	-	JELD-WEN	-	0-HOUR	SEE SPECIFICATIONS BELOW
D6	CASHIER SECURITY	12'-0"W x 10'-0"T	-	D	STEEL	-	O.H. DOOR OR EQUAL	-	0-HOUR	-
D7	MECHANICAL ROOM	4'-0" x 7'-0"	4'-4" x 7'-2"	C	H.M.	-	CURRIES OR EQUAL	-	0-HOUR	-
NOTES							ADDITIONAL DOOR SPECIFICATIONS			
<ul style="list-style-type: none"> ALL DOORS ARE 1 3/4" THICK - UNLESS NOTED OTHERWISE. ALL INTERIOR HOLLOW METAL FRAMES ARE 16 GA, WELDED TYPE. ALL CLOSERS AND HARDWARE TO BE US26D - UNLESS NOTED OTHERWISE. ALL LOCKSETS TO BE KEYED SEPARATELY. ALL KEYWAYS TO BE STANDARD KEYWAYS. CONTRACTOR TO CONFIRM THAT ALL CYLINDERS WILL BE PROVIDED FROM ONE SOURCE. ALL CLOSERS AND LOCKSETS SHALL MEET ACCESSIBILITY REQUIREMENTS. ALL HINGES ON DOORS WITH CLOSERS TO BE OIL IMPREGNATED BEARING TYPE. ALL FRAMES TO RECIEVE STANDARD ANSI CURVED LIP STRIKE WITH ANSI WROUGHT STRIKE BOX WHERE REQUIRED. ALL CLOSERS TO BE SET FOR 110 DEGREE OPENING WHERE THE DOOR SWING WILL NOT BE IN CONFLICT WITH ADJACENT CONSTRUCTION. ALL MOUNTING SCREWS FOR CLOSERS, CLOSER ARMS, AND OPERATOR ARMS ON ALUMINUM DOORS SHALL BE SCREWED INTO "NUTSERTS". NUTSERTS TO BE STAINLESS STEEL TYPE. THE PRESCRIBED USE OF THE NUTSERTS PRODUCT IS SUBJECT TO NO EXCEPTION BEING TAKEN BY THE ALUMINUM DOOR MANUFACTURER / INSTALLER. EXTERIOR DOORS TO HAVE MAXIMUM 8.5 POUNDS PUSH/PULL OPENING FORCE. INTERIOR DOORS TO HAVE MAXIMUM 5 POUNDS PUSH/PULL OPENING FORCE. CONTRACTOR TO SUBMIT MANUFACTURER'S SPECIFICATIONS FOR DOOR HARDWARE. ALL DOOR HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES SHALL BE INSTALLED AT LEAST 34" BUT NOT MORE THAN 48" ABOVE FINISH FLOOR. THE OPERATING DEVICES SHALL BE CAPABLE OF OPERATION WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF WRIST TO OPERATE. EGRESS DOORS SHALL OPEN READILY FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. THE USE OF MACHINE SCREWS FOR CONTINUOUS HINGE ANCHORAGE IS REQUIRED. PROVIDE ADDITIONAL REINFORCING FOR THE HINGES IN THE FRAMES AND DOOR STILES. FOR ALUMINUM DOOR WITH TUBULAR PULLS, AN OFFSET FROM THE CENTER OF THE STILE IS REQUIRED TO PREVENT A CONFLICT WITH THE LOCK CYLINDER. THE PULLS TO BE OFFSET TO THE LITE SIDE OF THE STILE. ALL PULLS TO BE INSTALLED WITH THIS OFFSET, EVEN WITHOUT A CYLINDER ON THE STILE. THE HARDWARE INSTALLER TO CONFIRM THAT ALL CLOSERS HAVE THE BACKCHECK VALVE SCREWED IN, FOR PARALLEL, ARM INSTALLATIONS. CONTRACTOR TO REVIEW ALL DOOR ACTUATOR LOCATIONS WITH THE OWNER PRIOR TO INSTALLING BACK BOXES. 							SLIDING DOORS (INCLUDES THEIR WINDOWS ON SIDES) <ul style="list-style-type: none"> JELD-WEN SITELINE CLAD SLIDING PATIO DOOR, AURALAST PINE STATIONARY, O / LEFT-X, / PASSIVE, / STATIONARY, NARROW STILE, STANDARD SILL BLACK SILL BLACK EXTERIOR CLEAR PANEL/FRAME BLACK INTERIOR NAIL FIN (STANDARD), COLOR MATCH METAL DRIP CAP, INSULATED TEMPERED GLASS, PROTECTIVE FILM, BLACK SPACER NO SCREEN SILL HEIGHT TO MEET ADA REQUIREMENTS GLAZED ENTRY DOOR <ul style="list-style-type: none"> JELD-WEN SITELINE CLAD AURALAST PINE, OUTSWING DOOR PRODUCT, (SINGLE-SWING) SINGLE PANEL DOOR 4 5/8" STILE, 10" BOTTOM RAIL, BLACK EXTERIOR, CLEAR FRAME BLACK INTERIOR NAIL FIN (STANDARD), COLOR MATCH METAL DRIP CAP, STANDARD SILL, BLACK SILL, INSULATED TEMPERED GLASS, PROTECTIVE FILM, BLACK SPACER DOOR CLOSER SILL HEIGHT TO MEET ADA REQUIREMENTS 			

WINDOW SCHEDULE ⓧ							
MARK	DIMENSION (W x H)	MANUFACTURER AND MODEL	MULLION SIZE	FRAME	FINISH	JAMB	REMARKS
1	15'-9 3/4" X 4'-3 1/2"	JELD-WEN, SITELINE	-	-	-	-	SEE SPECIFICATIONS BELOW
2	15'-9 3/4" X 4'-3 1/2"	JELD-WEN, SITELINE	-	-	-	-	SEE SPECIFICATIONS BELOW

GENERAL NOTES:

- CONTRACTOR TO FIELD MEASURE ALL WINDOW LOCATIONS BEFORE ORDERING
- JELD-WEN (WINDOW MANUFACTURER) TO VERIFY SYSTEMS ORDERED ARE ADEQUATE FOR APPLICATIONS SHOWN

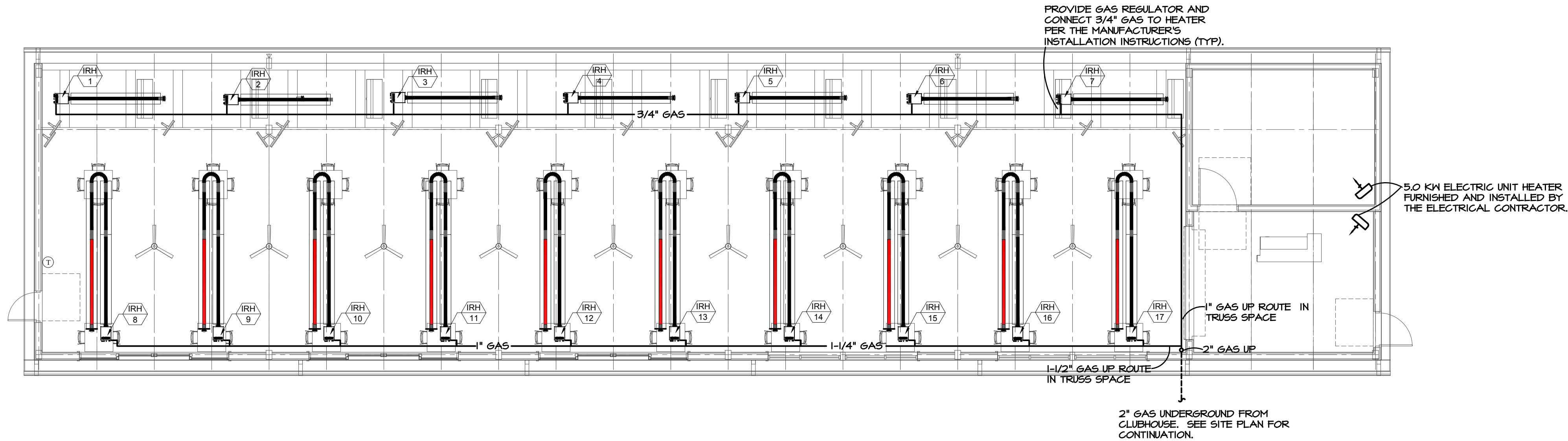
WINDOWS (SMALLER FIXED WINDOWS)

- JELD-WEN SITELINE FIXED WINDOWS, STANDARD, CLAD MULL AURALAST PINE, CASEMENT/AWNING PRODUCT
- BLACK EXTERIOR
- BLACK INTERIOR
- NAIL FIN (STANDARD), COLOR MATCH METAL DRIP CAP
- INSULATED ANNEALED GLASS, PROTECTIVE FILM, BLACK SPACER

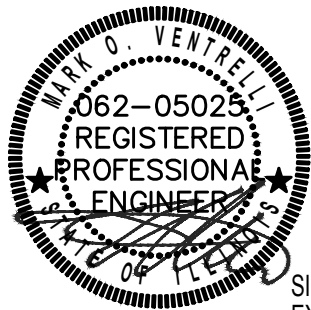
INTERIOR FINISH LEGEND 						
TAG	ITEM DESCRIPTION	MANUFACTURER	PRODUCT NUMBER / COLOR	SIZE / SPECS	GROUT	COMMENTS
FF1	CONCRETE FLOOR FINISH	-	-	-	-	DRY SHAKE ON FRESH CONCRETE, 1.0 PSF
P1	PAINT	SHERWIN WILLIAMS	BLACK - EXACT COLOR TBD BY OWNER	-	-	TRUSSES, TRIM, H.M. DOORS
P2	PAINT	PRE-FAB BUILDING MFR	IVORY - EXACT COLOR TBD BY OWNER	-	-	GENERAL INTERIOR - UPPER 1/2 OF WALLS, UNDERSIDE OF ROOF DECK
P3	PAINT	PRE-FAB BUILDING MFR	TAN - EXACT COLOR TBD BY OWNER	-	-	GENERAL INTERIOR - LOWER 1/2 OF WALLS

INFRARED HEATER (INDIRECT FIRED GAS) SCHEDULE												
EQUIPMENT NUMBER	DESCRIPTION	LOCATION / AREA SERVED	NG INLET PRESSURE (W.C.)	INPUT (MBH)	OUTPUT TOTAL(MBH)	FAN MOTOR	MOUNTING HEIGHT (FT)	COMBUSTION TUBE LENGTH (FT)	VENT CONNECTION (INCH)	WEIGHT INCL. MOTOR (LB)	BASE OF DESIGN	REMARKS
						MOTOR (V/Ph/Hz)						
IRH-1-7	GAS FIRED INFRARED HEATER	RANGE	5-12"	40	40	120/1/60	10'-6"	12'		72#	ROBERTS GORDON MODEL HEV-40	1 THRU 8
IRH-8-17	GAS FIRED INFRARED HEATER	RANGE	5-12"	100	100	120/160	10'-6"	17-U		160#	ROBERTS GORDON MODEL HEV-100	1 THRU 8
1) ALL TUBING SHALL BE HEAT TREATED ALUMINIZED STEEL AS SHOWN ON PLAN NO SWAGGED TUBES ALLOWED												
2) REFLECTORS SHALL COVER ALL TUBING WITHOUT ANY GAPS FOR SUSPENSION POINTS, ALL JOINTS SHALL BE TERMINATED WITH END CAPS												
3) UNITS ARE DIRECT VENTED TO ATMOSPHERE -M.C TO PROVIDE VENT CAP AT END OF UNIT												
4) EQUIPMENT SUPPLIER SHALL PROVIDE S STEEL GAS LINE FLEX -36" W/ SHUT OFF VALVE												
5) EQUIPMENT PROVIDER SHALL PROVIDE EQUIPMENT TRAINING AND START-UP												
6) EQUIPMENT PROVIDER TO SUPPLY SPRING WOUND TIMER - TIMER MUST BE MIN OF 30 MIN												
7) E.C TO RECEPTACLE FOR EACH IR HEATER TO PLUG INTO												
8) E.C TO PROVIDE A SERVICE AT EVERY BURNER												
CONTACT MIDWEST ENVIRONMENTAL SALES -847-290-8888 OR GANDROS@MIDWEST-ENVIRONMENTAL.COM												

MECHANICAL NOTES	
1.	PROVIDE A GAS SHUT-OFF VALVE, UNION, AND MIN. 6" DIRT LEG AT ALL HEATING UNITS.
2.	THE MECHANICAL CONTRACTOR SHALL INSTALL ALL GAS PIPING SHOWN ON THIS PLAN. GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL, ASTM A53 MALLEABLE IRON OR FORGED STEEL WELDING TYPE. ALL GAS PIPING SHALL BE INSTALLED PER A.S.A. REQUIREMENTS.
3.	ALL GAS PIPING EXPOSED TO THE OUTDOORS SHALL BE CLEANED AND PAINTED BLACK FOR CORROSION PROTECTION PER IMC 1303.21



1 MECHANICAL PLAN
1/8" = 1'-0"



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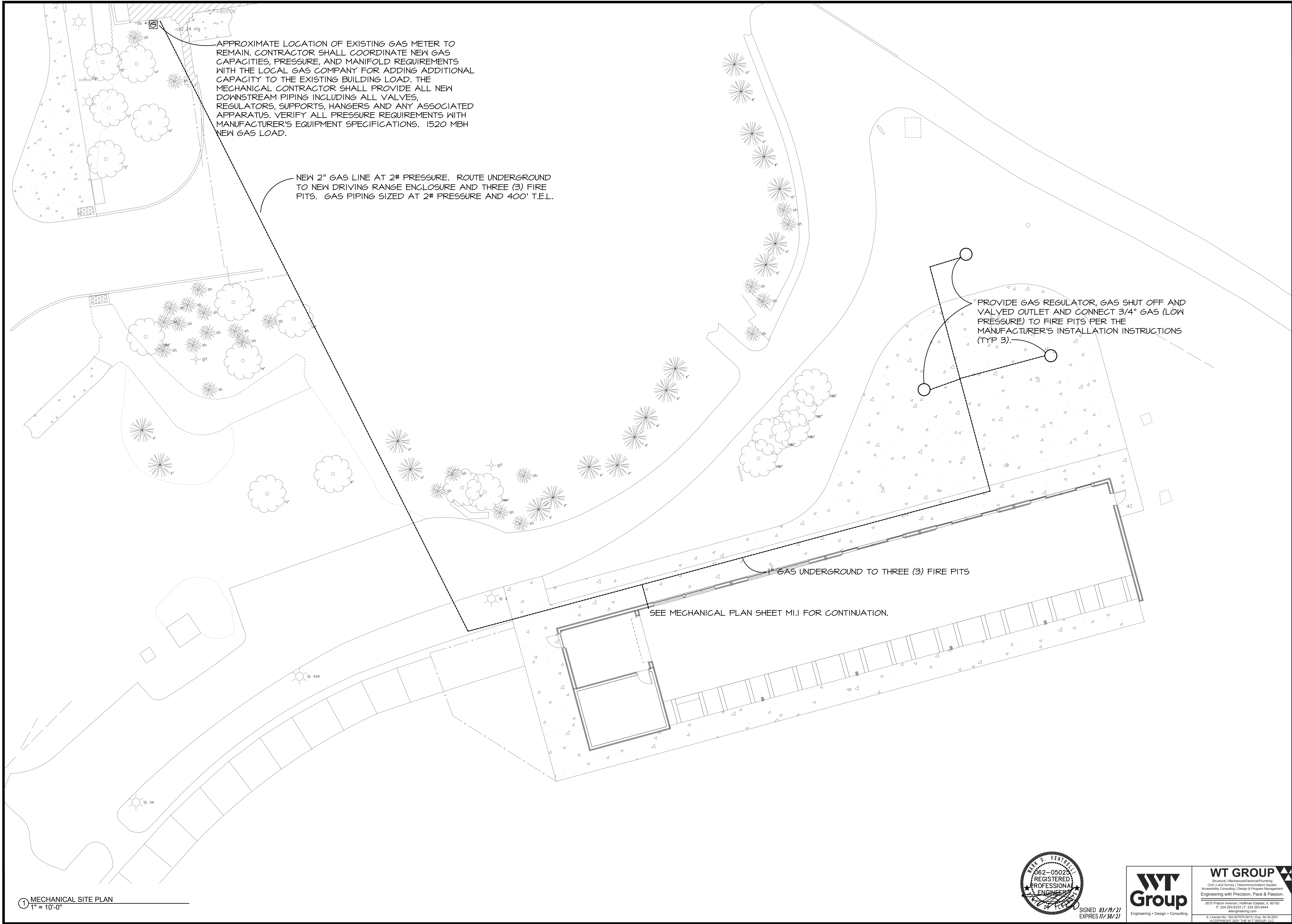
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1400 POPLAR CREEK DRIVE
HOFFMAN ESTATES, IL 60169

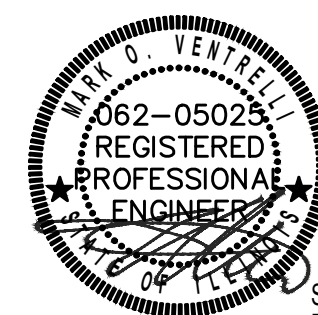
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sheet title: MECHANICAL PLAN
sheet number: M1.1

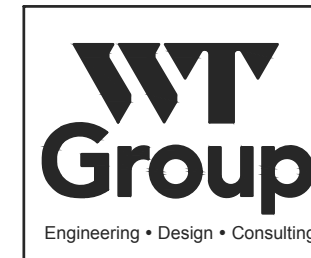
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1 MECHANICAL SITE PLAN
1" = 10'-0"



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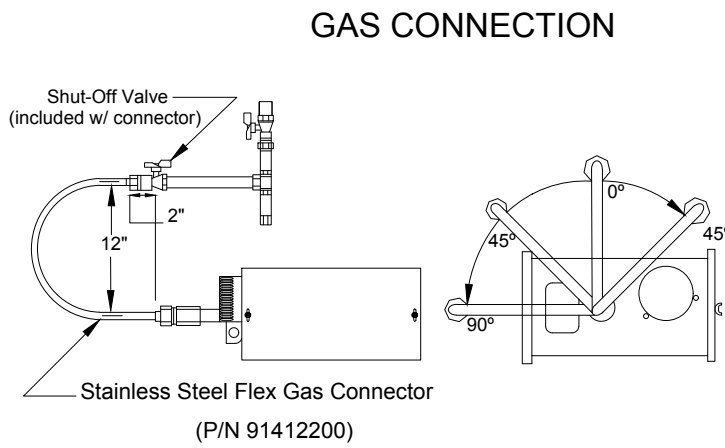
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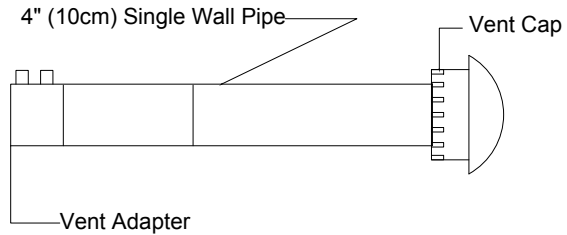
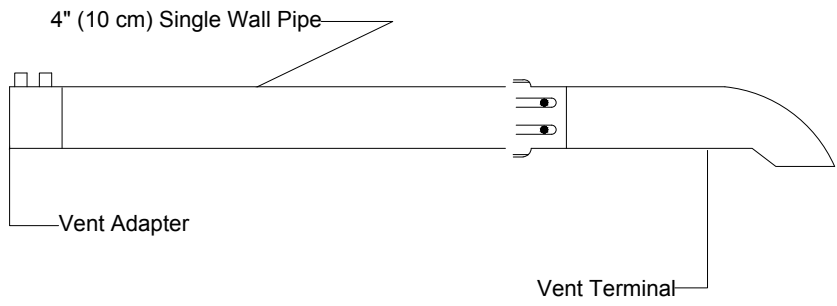
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CAUTION
Hold gas line securely with pipe wrench when attaching the flex gas connector.
Failure to follow these instructions will result in property damage.

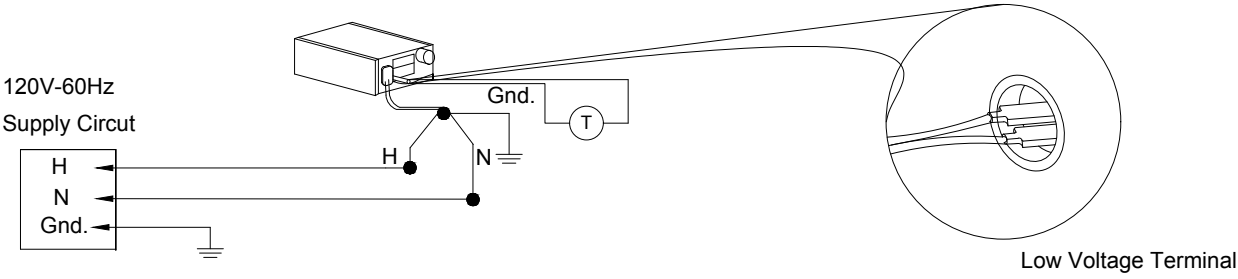
Gas pipe work must be installed and tested in accordance with United States ANSI Z223.1/NFPA 54 latest addition and Canada CNA/CSA-B149.1 and B149.2
a) Install the flex gas connector as shown. The flex gas connector accommodates expansion of the heating system and allows for easy installation and service of the burner.
b) Shut-Off Valve must be parallel to burner inlet. The 2" (5cm) displacement shown is for the cold condition. This displacement may reduce when the system is fired.

HORIZONTAL VENTING CONFIGURATIONS

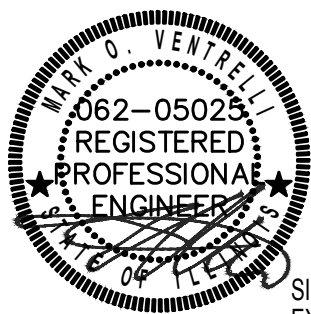
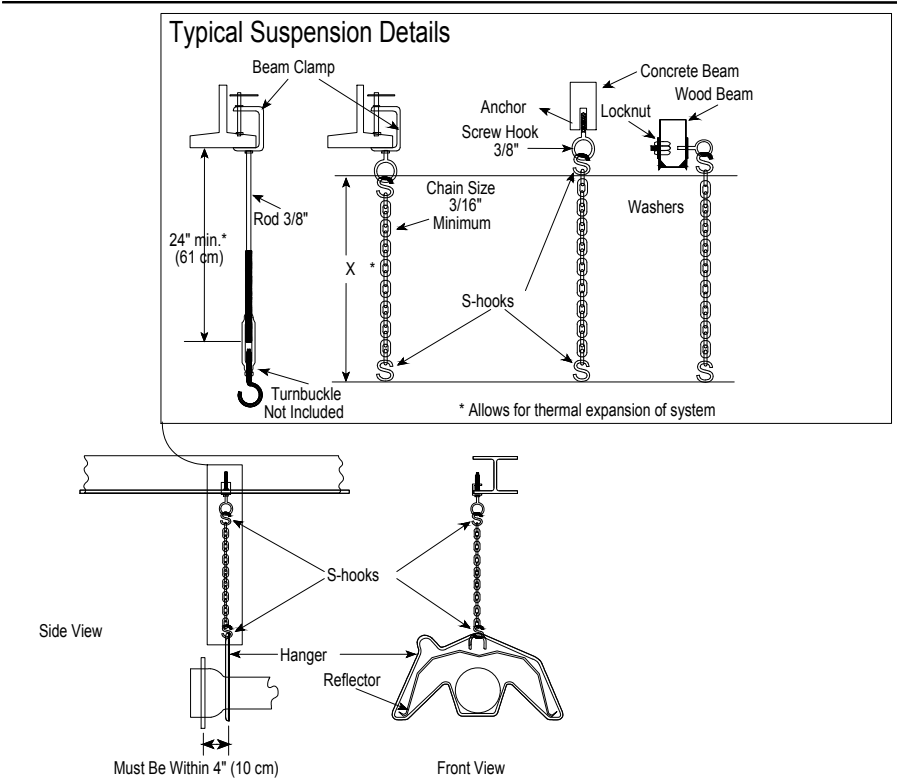
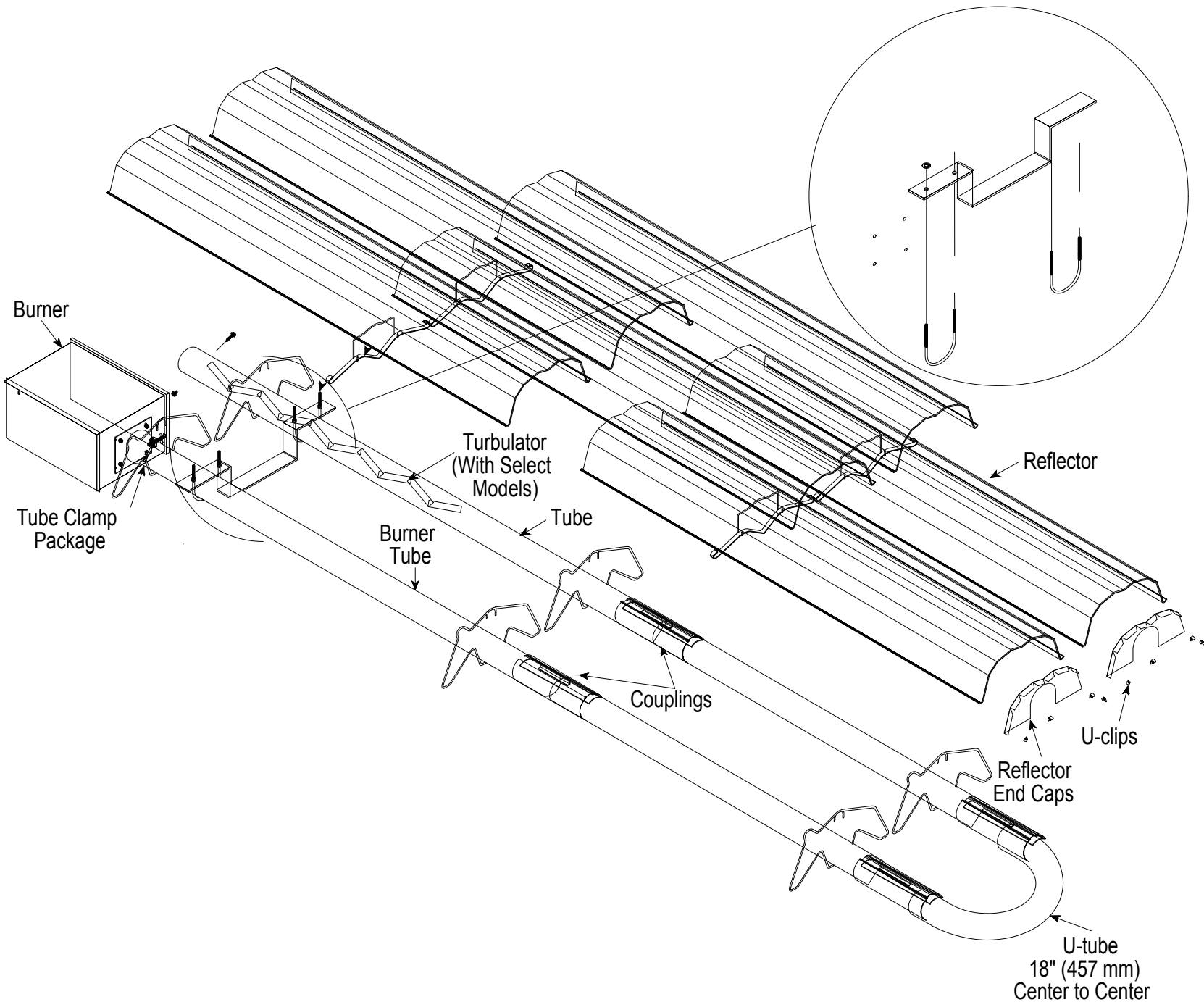


- a) Refer to Installation, Operation and Service Manual for proper design.
b) In combustible or noncombustible walls, use insulated vent terminal. Follow vent manufacturer's instructions for proper installation.
c) 4" (10 cm) O.D. vent pipe, maximum 45 ft.(13.7m) in length may be used as shown above with an approved vent cap. NOTE: Condensate may develop when long vent pipes are used. It is recommended that the pipe length should be less than 20' (6m).
d) When heater extension packages are used they directly effect maximum vent length. Refer to Installation, Operation and Service Manual for requirements.
e) Vent terminal must be installed at a height sufficient to prevent blockage by snow. Building materials must be protected from degradation by vent gases.

LOW VOLTAGE TIMER WIRING



United States: refer to *National Electric Code*® ANSI/NFPA-70-latest version
Canada: refer to *Canadian Electric Code*® CSA C22.1 Part I-latest version.



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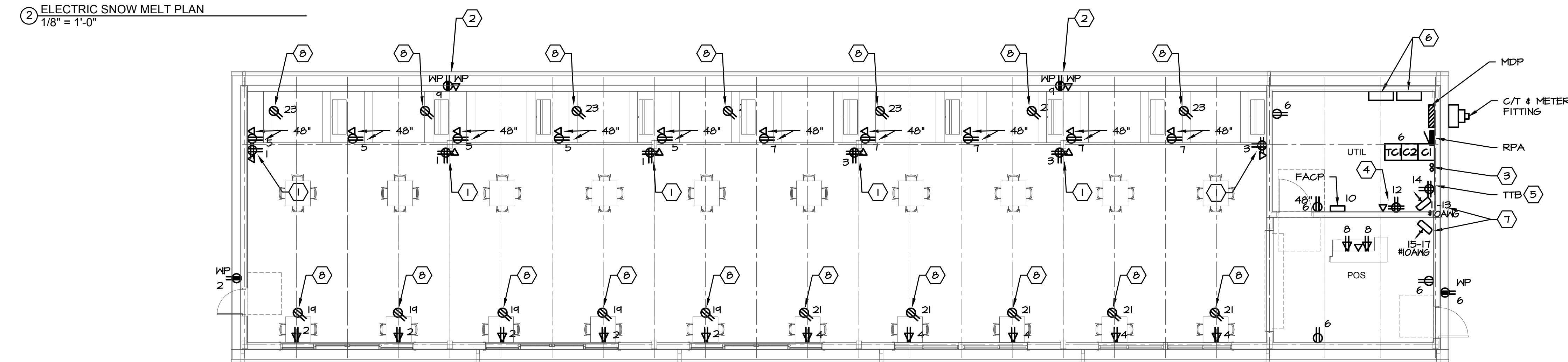
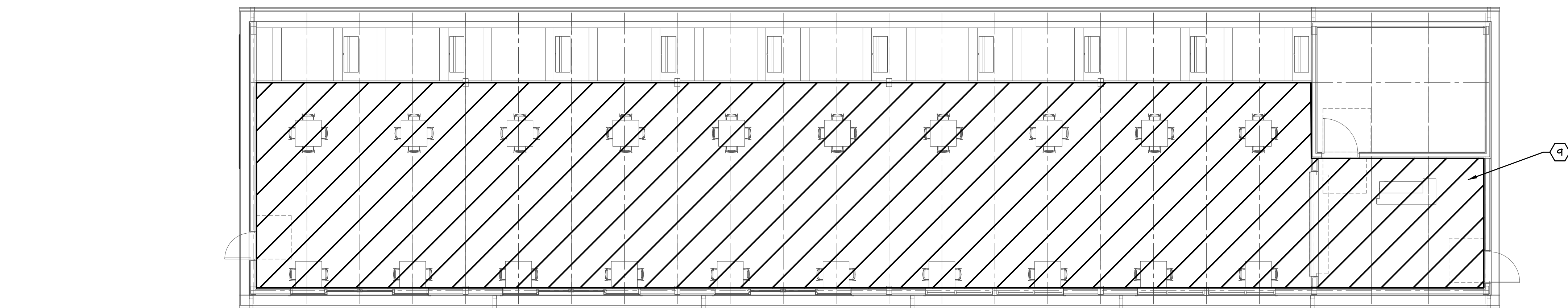
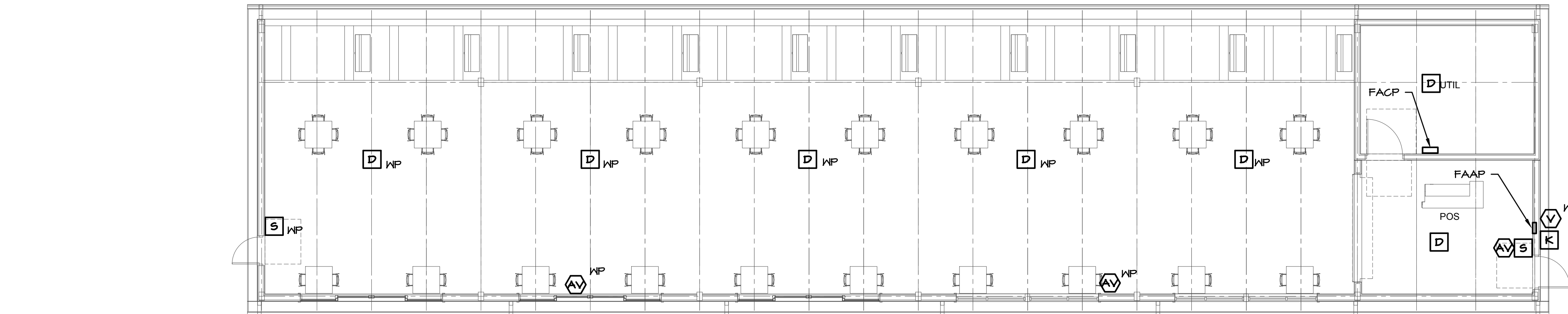
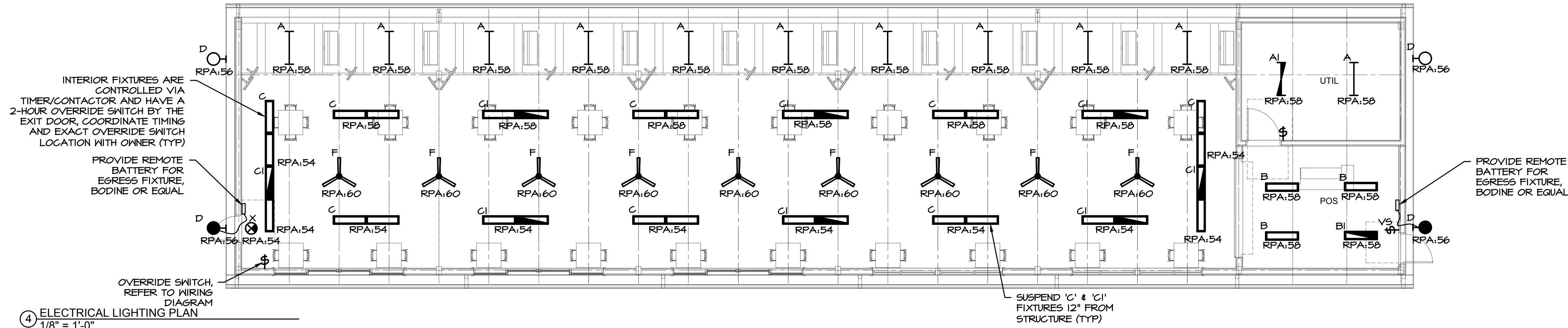
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1400 POPLAR CREEK DRIVE
HOFFMAN ESTATES, IL 60169

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GENERAL NOTES

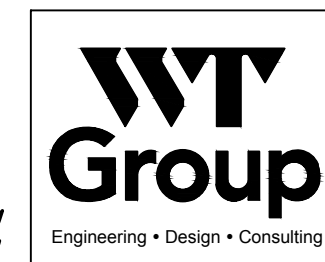
- ALL LOW VOLTAGE WIRING (DATA, VOICE, TV, FIRE ALARM, SECURITY, DOOR ACCESS, ALERTING, ETC) AREA SHALL BE PIPED IN FULL EMT CONDUIT. EXPOSED WIRING IS NOT ACCEPTABLE

KEYED NOTES

- POWER AND DATA OUTLET FOR TV DISPLAY. VERIFY EXACT MOUNTING HEIGHT IN FIELD.
- POWER AND DATA OUTLETS FOR GOLF BALL TRACKING SENSOR. VERIFY EXACT LOCATION AND HEIGHT IN FIELD.
- INCOMING COMMUNICATION CONDUITS FROM EXISTING CLUBHOUSE. REFERENCE SITE ELECTRICAL PLAN, SHEET SE1.1 FOR EXACT SPECIFICATION AND ROUTING.
- POWER AND DATA FOR TOPTRACER RANGE SERVER. VERIFY FINAL LOCATION IN FIELD.
- PROVIDE 4" x 8" x 3/4" FIRE-RATED (OR PAINTED WITH A MINIMUM OF THREE (3) COATS FIRE RETARDANT PAINT) A-C GRADE VOID FREE PLYWOOD SHEETING. THE PLYWOOD SHALL BE MOUNTED SUCH THAT THE TOP OF THE PLYWOOD IS 8' - 6" AFF AND THE BOTTOM EDGE OF THE PLYWOOD IS 6" AFF.
- SNOW MELT CONTROL PANEL. PANEL FURNISHED BY SNOW MELT MANUFACTURER, INSTALLED BY EC. ELECTRICAL FEEDER TO EACH PANEL BY EC. SNOW MELTING DISTRIBUTION PANEL (200-AMP, 120/208V, 3 PHASE FEED) MANUFACTURED BY PENTAIR OR EQUAL UTILIZING SHEATHED MI HEATING CABLE. SEE INSTALLATION DETAILS ON E2.4.
- ELECTRICAL UNIT HEATER 5.0 KW, 208V, SINGLE PHASE WITH BUILD IN THERMOSTAT AND DISCONNECT SWITCH. MARKEL #F2F5105N-CAI-T5100-DCS202/S10-AS105.
- POWER FOR INFRARED RADIANT HEAT BURNER. PROVIDE CEILING MOUNTED DUPLEX RECEPTACLE. CORONATE LOCATION WITH MECHANICAL CONTRACTOR.
- PROVIDE ELECTRIC SNOW MELT SYSTEM (APPROX 3,200 SQ. FT.) AT 35-WATTS / SQ. FT. SEE SHEET E2.4 FOR ADDITIONAL INFORMATION. SNOW MELTING DISTRIBUTION PANELS LOCATION IN UTILITY ROOM (SEE KEYED NOTE #6). SEE THIS SHEET. PROVIDE ALL NECESSARY IN-GRADE GUAZITE JUNCTION BOXES AND ROOF MOUNTED SNOW MELTING SYSTEM AERIAL SENSOR. WIRE BACK TO CONTROLLER (3#10 AWG) IN DEDICATED CONDUIT.



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FIRE ALARM SYMBOLS

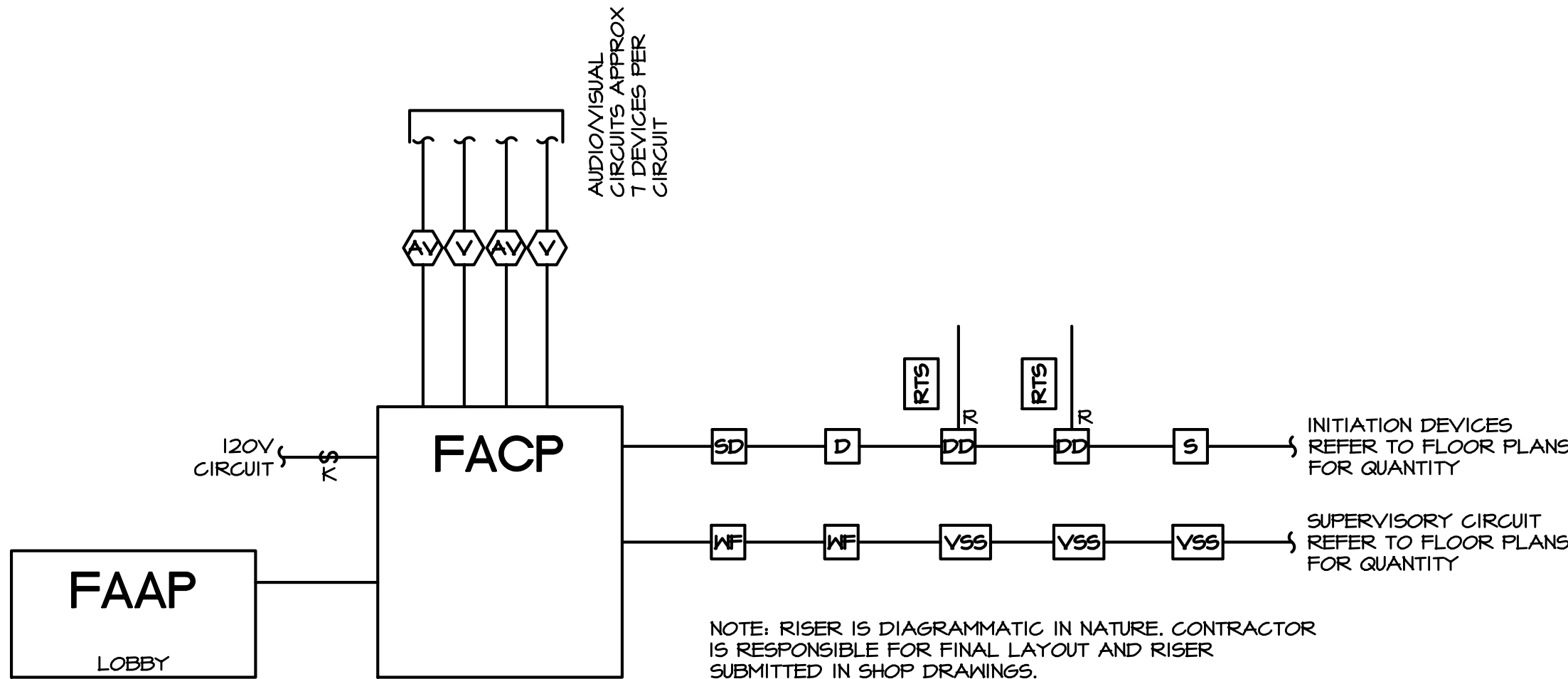
FACP	ADDRESSABLE FIRE ALARM CONTROL PANEL WITH REMOTE 24 HOUR TELEPHONE MONITORING
FAAP	FIRE ALARM ANNUNCIATOR PANEL
S	FIRE ALARM SYSTEM DUAL ACTION PULL STATION (+48" AFF, MOUNT WITHIN 5 FT. OF DOOR) WITH COVER/SONDER PLASTIC SHIELD
AV	FIRE ALARM SYSTEM HORN & STROBE LIGHT (AUDIO-VISUAL ALARM, +80" AFF, CANDELA RATING BY OTHERS)
V	VISUAL STROBE LIGHT (+80" AFF, CANDELA RATING BY OTHERS)
SD	SMOKE DETECTOR, MINIMUM 3FT. FROM SUPPLY VENT
D	HEAT DETECTOR, 135° DEGREE FIXED TEMP/RATE OF RISE
K	KNOX BOX (WEATHER PROOF)

FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE TYPE ZONED PER NFPA CODE, NON-CODED, CONTINUOUS SOUNDING, UL LISTED, WITH SERIES BATTERIES. MINIMUM WIRE TWO CONDUCTOR INSULATED #14 AWG, TWISTED PAIR, PROVIDE BACKBOXES FOR EACH DEVICE. PROVIDE FULL CONDUIT SYSTEM

DEVICE LAYOUT IS REPRESENTATIVE ONLY. PROVIDE ACTUAL QUANTITY OF DEVICES PER NFPA 72, NFPA 101, IBC, NEC, IFC, AND PER LOCAL AUTHORITY HAVING JURISDICTION REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT QUANTITY OF FIRE ALARM DEVICES PRIOR TO BIDDING.

ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE FIRE ALARM PERMIT AND CONSTRUCTION DOCUMENTS. SUBMIT SHOP DRAWINGS TO ENGINEER AND PERMITTING AUTHORITY FOR REVIEW PRIOR TO INSTALLATION AND RESUBMIT BASED ON COMMENTS, AS REQUIRED. PROVIDE BATTERY AND VOLTAGE DROP CALCULATIONS.

FIRE ALARM DEVICES WIRED TO FACP SHALL BE ADDRESSABLE (DUCT SMOKE DETECTORS, FULL STATIONS, HORNS, VISUALS, FLOW SWITCHES, TAMPER SWITCHES, AND BELLS). VERIFY AND COORDINATE IN FIELD. FACP SHALL BE CONNECTED TO WIRELESS TRANSMITTER.



FIRE ALARM RISER DIAGRAM
SCALE: NONE

ELECTRICAL SPECIFICATIONS

THE GENERAL CONDITIONS AND SUPPLEMENTAL GENERAL CONDITIONS BY THE ARCHITECT SHALL GOVERN WHERE APPLICABLE.

THIS CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE PLANS AND SHALL VERIFY EXISTING SITE CONDITIONS AT THE JOB SITE BEFORE SUBMITTING BID. FAILURE TO RECOGNIZE WORK REQUIRED SHALL BE AT THE EXPENSE OF THIS CONTRACTOR. NO CONSIDERATION SHALL BE GIVEN FOR ADDITIONAL COMPENSATION AFTER THE LETTING OF BIDS.

ENTIRE INSTALLATION SHALL BE PERFORMED IN A FIRST-CLASS WORKMANLIKE MANNER AND SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES. THE COMPLETED SYSTEMS SHALL BE FULLY OPERATIONAL; ACCEPTANCE BY THE OWNER SHALL BE A CONDITION OF THE CONTRACT. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES IN ORDER TO AVOID INTERFERENCES, PRESERVE MAXIMUM HEADROOM, AND AVOID OMISSIONS. ALL MATERIALS, WORKMANSHIP AND EQUIPMENT SHALL BE GUARANTEED FOR ONE (1) YEAR AFTER SYSTEM ACCEPTANCE.

RECEPTACLES AND SWITCHES SHALL BE THE TYPE AS SHOWN ON THE DRAWINGS AND SHALL BE SPECIFICATION GRADE.

MINIMUM BRANCH WIRE SIZE SHALL BE #12 AWG COPPER EXCEPT FOR CONTROL AND SIGNAL CIRCUITS. INSULATION (INTERIOR) SHALL BE SOLID TYPE THIN OR THIN SIZES #12 THROUGH #10. SIZES #8 THROUGH #250 MCM SHALL BE STRANDED TYPE THIN OR THIN AT THE CONTRACTOR'S OPTION.

MINIMUM OUTLET BOXES SHALL BE 4" SQUARE, UNLESS OTHERWISE SPECIFIED.

CONTRACTOR SHALL NOT SCALE DRAWINGS FOR DIMENSIONS BUT SHALL CONTACT THE PROJECT ARCHITECT FOR ALL DIMENSIONAL DATA AND SHALL VERIFY EXACT LOCATION AND MOUNTING HEIGHTS OF ALL OUTLETS WITH ARCHITECT AND/OR OWNER PRIOR TO INSTALLATION.

GROUNDING SHALL COMPLY WITH REQUIREMENTS OF ALL APPLICABLE CODES.

ALL MATERIALS USED SHALL BE NEW AND BEAR THE UL LABEL AND BE OF THE APPROPRIATE NEMA STANDARD.

THIS CONTRACTOR SHALL ALLOW IN HIS INITIAL BID THE COST OF SERVICES ON ALL EQUIPMENT INSTALLED UNDER HIS CONTRACT FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE OF THE WORK.

LAYOUT IS DIAGRAMMATIC AND WORK SHALL BE INSTALLED TO MEET FIELD CONDITIONS AND EQUIPMENT SELECTED. PROVIDE SHOP DRAWINGS AS REQUIRED AND VERIFY ALL EQUIPMENT.

PANELBOARDS SHALL BE DEAD FRONT WITH BOLT-ON TYPE CIRCUIT BREAKERS W/CU BUS. A TYPED LEGEND, UNDER A CLEAR PLEXAN-GLASS SHALL BE PROVIDED FOR CIRCUIT IDENTIFICATION.

CONTRACTOR SHALL INCLUDE ALL MISCELLANEOUS ITEMS REQUIRED TO COMPLETE THE WORK.

CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND REQUIRED INSPECTION FEES.

IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE AND REVIEW THE ELECTRICAL CHARACTERISTICS, AMPLACITY AND OTHER REQUIREMENTS OF ALL EQUIPMENT PRIOR TO INSTALLATION.

IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE THE LOCATIONS OF CONDUIT ROUTING, EQUIPMENT, LIGHTING, ETC. WITH ALL OTHER TRADES IN THE FIELD PRIOR TO INSTALLATION.

THE ENTIRE INSTALLATION OF ALL COMPONENTS OF THIS PROJECT SHALL COMPLY WITH ALL FEDERAL, ADA REQUIREMENTS. VERIFY EXACT LOCATIONS AND HEIGHTS OF ALL FIXTURES AND OUTLETS BEFORE INSTALLATION TO INSURE COMPLIANCE WITH FEDERAL REGULATIONS.

FOR CLARITY OF ALL PLANS, SOME CONDUIT AND WIRE HAS NOT BEEN SHOWN. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO FURNISH AND INSTALL COMPLETE AND OPERATING SYSTEMS INCLUDING ALL CONDUIT AND WIRING.

FOR ALL NIGHT LIGHTING, EXIT SIGNS AND BATTERY POWERED EMERGENCY LIGHTING CIRCUITS, THIS CONTRACTOR SHALL USE #10 AWG FOR THE ENTIRE CIRCUIT LENGTH UNLESS INDICATED OTHERWISE.

THIS CONTRACTOR SHALL MAINTAIN THE FIRE RATED INTEGRITY OF ALL FLOORS, CEILINGS AND WALLS. ALL PENETRATIONS THROUGH FIRE RATED BUILDING ELEMENTS SHALL BE EFFECTIVELY SEALED USING APPROVED MATERIALS AND METHODS. ALL LIGHTING FIXTURES MOUNTED IN FIRE RATED CEILINGS SHALL MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILINGS USING APPROVED MATERIALS AND METHODS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATINGS.

THIS CONTRACTOR SHALL INSPECT THE COMPLETE SET OF DRAWINGS AND SPECIFICATIONS TO DETERMINE HIS SCOPE OF WORK. THIS CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND EXTENT OF DEMOLITION AND NEW WORK FOR THIS PROJECT PRIOR TO SUBMITTING HIS BID.

THE ELECTRICAL INSTALLATION IS TO BE IN STRICT ACCORDANCE WITH THE APPLICABLE RULES AND REGULATIONS OF ALL LOCAL, STATE AND FEDERAL ELECTRICAL CODES AND THE LOCAL UTILITY COMPANY REQUIREMENTS OR ANY OTHER AUTHORITIES HAVING LAWFUL JURISDICTION.

ALL SITE UNDERGROUND BRANCH CIRCUIT WIRING IN CONDUIT SHALL BE TYPE THIN OR XHHW.

ALL EXPOSED TO THE WEATHER CONDUIT SHALL BE HEAVYWALL, GALVANIZED RIGID STEEL 'RGS' OR INTERMEDIATE METAL CONDUIT 'IMC', MINIMUM SIZE 3/4".

ALL UNDERFLOOR, UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC, MINIMUM SIZE 3/4". PVC CONDUIT ROUTED UNDERFLOOR, UNDERGROUND SHALL BE TRANSITION TO HEAVYWALL GALVANIZED RIGID STEEL 'RGS' OR INTERMEDIATE METAL CONDUIT 'IMC' PRIOR TO GRADE.

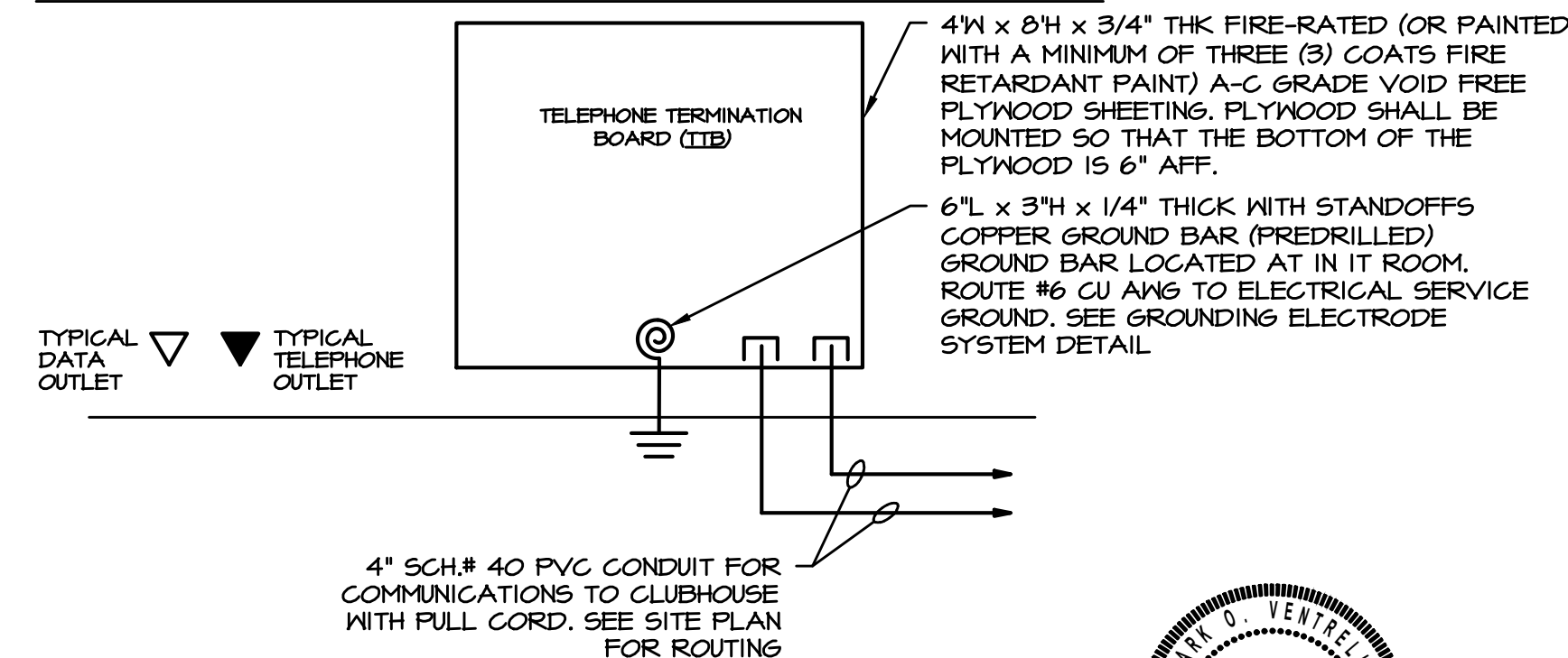
ALL WIRE SHALL BE INSTALLED IN THINWALL, ELECTRICAL METALLIC TUBING (EMT) CONDUIT UNLESS OTHERWISE NOTED. MINIMUM SIZE SHALL BE 3/4" FOR BRANCH CIRCUIT WIRING, DROPS TO SWITCHES AND BRANCH DEVICES MAY BE 1/2" UNLESS OTHERWISE NOTED ON DRAWINGS. ALL THINWALL FITTINGS SHALL BE OF THE STEEL COMPRESSION GLAND TYPE PER ALL APPLICABLE CODE REQUIREMENTS. ALL CONDUITS SHALL BE CONCEALED WHERE POSSIBLE, WHERE EXPOSED, THIS CONTRACTOR SHALL RUN CONDUITS IN STRAIGHT LINES PARALLEL AND/OR PERPENDICULAR TO THE BUILDING CONSTRUCTION. CONDUITS INSTALLED IN AREAS SUBJECT TO MECHANICAL DAMAGE SHALL BE RIGID GALVANIZED, OR INTERMEDIATE METAL TYPE.

THIS CONTRACTOR SHALL PROVIDE ALL TEMPORARY WIRING FOR ALL TRADES FOR CONSTRUCTION EQUIPMENT (e.g. HANDTOOLS, WELDERS, PIPE BENDERS, ETC.) AND CONSTRUCTION LIGHTING PER THE LATEST OSHA STANDARDS. INCLUDE ALL COSTS IN THE BASE BID. THIS CONTRACTOR SHALL ESTABLISH SAFE WORKING PROCEDURES FOR THE PROTECTION OF THE WORKMEN IN ALL PHASES OF WORK, COMPLYING WITH THE APPLICABLE PROVISIONS OF ALL CITY, STATE AND FEDERAL SAFETY LAWS (OSHA).

ELECTRICAL SYMBOLS

	LED LIGHT FIXTURE. CAPITAL LETTER DENOTES FIXTURE TYPE, NUMERAL INDICATES CIRCUIT ASSIGNMENT, SUBSCRIPT LETTER DENOTES SWITCHING. SHADING OF ANY FIXTURE INDICATES CIRCUITED TO UNSWITCHED NIGHT LIGHT CIRCUIT. SEE "LIGHTING FIXTURE SCHEDULE."
	EXIT SIGN UNIVERSAL MOUNT SHADED AREA INDICATES FACE, ARROWS AS REQUIRED. SEE "LIGHTING FIXTURE SCHEDULE."
	LIGHTING FIXTURE OUTLET - SEE "LIGHTING FIXTURE SCHEDULE"
	NON FUSED SAFETY SWITCH, RATING AS INDICATED
	FUSED DISCONNECT SWITCH, SWITCH AND FUSE RATINGS AS INDICATED.
	3-PHASE COMBINATION MAGNETIC STARTER WITH NEMA SIZE INDICATED BY E.G.
	ISOLATED GROUND DUPLEX RECEPTACLE, NEMA 5-20R, 15'A.F.F. U.N.O.
	SINGLE RECEPTACLE, NEMA 5-20, 15" A.F.F. U.N.O.
	DUPLEX RECEPTACLE, NEMA 5-20R, 15'A.F.F. U.N.O.
	DUPLEX RECEPTACLE, NEMA 5-20R, CROSS LINE DENOTES 6" ABOVE COUNTER OR BACKSPLASH U.N.O.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, 15'A.F.F. U.N.O.
	DUPLEX RECEPTACLE, NEMA 5-20R, SHADING DENOTES GROUND FAULT CIRCUIT INTERRUPTER "GFCI", 15'A.F.F. U.N.O.
	DUPLEX RECEPTACLE, NEMA 5-20R, SHADING DENOTES GROUND FAULT CIRCUIT INTERRUPTER "GFCI", 15'A.F.F. U.N.O.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, SHADING DENOTES GROUND FAULT CIRCUIT INTERRUPTER "GFCI", 15'A.F.F. U.N.O.
	DUPLEX RECEPTACLE W/ 2 USB PORTS, NEMA 5-20R, 15'A.F.F. U.N.O.
	DUPLEX RECEPTACLE W/ 2 USB PORTS, NEMA 5-20R, CROSS LINE DENOTES 6" ABOVE COUNTER OR BACKSPLASH U.N.O.
	SPECIAL PURPOSE RECEPTACLE NEMA CONFIGURATION AS REQUIRED BY MANUFACTURERS EQUIPMENT. VERIFY CONDUIT, CONDUCTOR AND DISCONNECT/CIRCUIT BREAKER REQUIREMENTS PRIOR TO ROUGH-IN.
	LIGHTING AND/OR POWER PANEL.
	MOTOR
	PHOTO ELECTRIC CONTROL, ROOF MOUNTED, (FACE NORTH) 120V OPERATION, 20A RATED TIED TO LIGHTING RELAY PANEL (LRP); ACUITY #PCELL-2W0-BB

	CONDUIT ROUTED CONCEALED IN CEILING OR WALL CONSTRUCTION. (CROSS LINES DENOTE NUMBER OF WIRES.)
	CONDUIT ROUTED EXPOSED, PARALLEL OR PERPENDICULAR TO WALLS.
	CONDUIT ROUTED CONCEALED IN CONCRETE FLOOR SLAB OR UNDERGROUND.
	AUXILIARY JUNCTION BOX
	FLEXIBLE CONDUIT CONNECTION
	HOME RUN TO PANELBOARD
	CONDUIT
	PHASE CONDUCTORS
	NEUTRAL CONDUCTOR
	EQUIPMENT GROUND
	ISOLATED GROUND
WP	WEATHER PROOF (NEMA 3R)
F.B.O.	FURNISHED BY OTHERS
W	DENOTES 6" ABOVE COUNTER OR BACKSPLASH U.N.O.
U.N.O.	UNLESS NOTED OTHERWISE
A.F.F.	ABOVE FINISH FLOOR
WG	WIRE GUARD BY SAFETY TECHNOLOGY INTERNATIONAL, INC
	2-GANG RECESSED FLOOR-BOX / POKE-THRU DEVICE. VERIFY EXACT DEVICE IN FIELD, MOUNTED FLUSH IN FLOOR. PROVIDE SEPARATE CONDUIT STUBS FOR POWER AND DATA (1") CABLEING. COVER ASSEMBLY AND DEVICES AS INDICATED. COVER FINISH TO BE SELECTED BY ARCHITECT. LEGRAND EVOLUTION 6" SERIES



DETAIL - TELEPHONE/CATV RISER 'TTB'
NOT TO SCALE

	WALL TELEPHONE OUTLET (48" AFF) WITH 1" CONDUIT
	TELEPHONE OUTLET, WITH 1" CONDUIT
	DATA SYSTEM OUTLET WITH 1" CONDUIT
	TV OUTLET, WITH 1" CONDUIT
	SINGLE POLE TOGGLE SWITCH, 48" AFF, SUBSCRIPT LETTER DENOTES SWITCH LEG, 20 AMP, 120 VOLT
	THREE WAY TOGGLE SWITCH, 48" AFF, 20AMP, 120VOLT.
	MANUAL SINGLE PHASE MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION. "P" DENOTES DEVICE FURNISHED WITH PILOT LIGHT., 48" AFF UNLESS INDICATED OTHERWISE
	SINGLE POLE PILOT LIGHT SWITCH, 48" AFF, PILOT LIGHT ON WHEN DEVICE IS TURNED ON, 20 AMP, 120 VOLT
	FAN SPEED SWITCH; 48" AFF
	MOMENTARY CONTACT SWITCH 48" A.F.F.
	WALL MOUNTED OCCUPANCY SENSOR SWITCH (AUTO ON / AUTO OFF) 48" A.F.F. ACUITY #WSX-PDT-XX
	WALL MOUNTED VACANCY SENSOR SWITCH (MANUAL ON / AUTO OFF) 48" A.F.F. ACUITY #WSX-PDT-5A-XX
	WALL MOUNTED VACANCY SENSOR DIMMER SWITCH (MANUAL ON / AUTO OFF) 48" A.F.F. ACUITY #WSX-PDT-D-SA-XX
	NIGHT (ON/OFF) SWITCH; 48" A.F.F. ACUITY #NPDM-XX
	NIGHT (ON/OFF + RAISE/LOWER) SWITCH; 48" A.F.F. ACUITY #NPDM-DX-XX
	NIGHT SCENE CONTROLLER (ON/OFF + RAISE/LOWER) SWITCH; 48" A.F.F. ACUITY #NPDM-4SB-DX-WH
	NIGHT 0-10V POWER PACK; ACUITY #NPP16-D
	NIGHT ELV POWER PACK; ACUITY #NSP5-PCD
	NIGHT CEILING MOUNTED ULTRASONIC/ PASSIVE INFRARED OCCUPANCY SENSOR; ACUITY #nCM-PDT-10-R-JB
	NIGHT CEILING MOUNTED ULTRASONIC/ PASSIVE INFRARED VACANCY SENSOR; ACUITY #nCM-PDT-10-R-JB

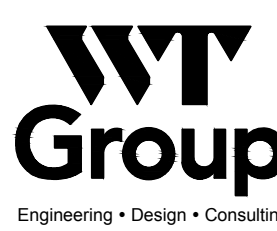
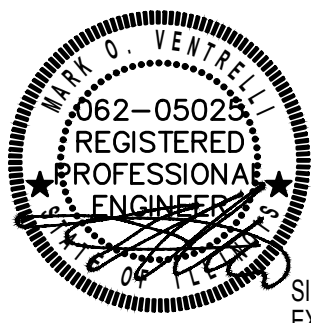
BRANCH WIRING NOTES

PROVIDE THE FOLLOWING MINIMUM WIRE SIZE TO THE FIRST OUTLET OF A 15 OR 20 AMPERE BRANCH CIRCUIT. PROVIDE MINIMUM #10AWG TO THE LAST OUTLET FOR ALL BRANCH CIRCUITS MORE THAN 200 FEET IN LENGTH.

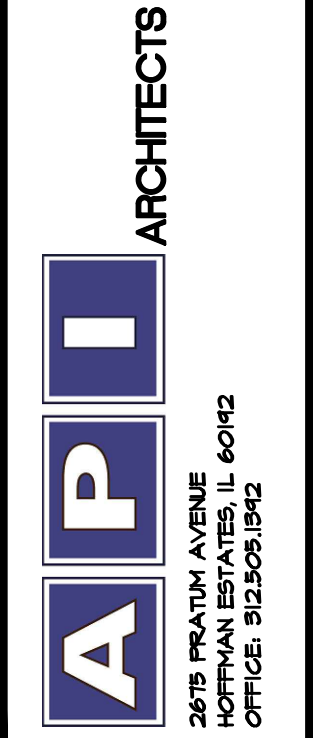
DISTANCE	AWG WIRE SIZES
UP TO 100 FEET	#12
100 TO 200 FEET	#10
MORE THAN 200 FEET	#8 MINIMUM

PROVIDE MINIMUM AWG CONDUCTOR SIZES FOR GENERAL BRANCH CIRCUITING AS FOLLOWS. WHERE APPLICABLE INCREASE AS REQUIRED TO ACCOMMODATE VOLTAGE DROP.

OVERCURRENT PROTECTION	CU AWG WIRE SIZE	OVERCURRENT PROTECTION	CU AWG WIRE SIZE
15/20 AMPERE	#12	60 AMPERE	#6
25/30 AMPERE	#10	70/80 AMPERE	#4
40 AMPERE	#8	90 AMPERE	#3
50 AMPERE	#6	100 AMPERE	#3



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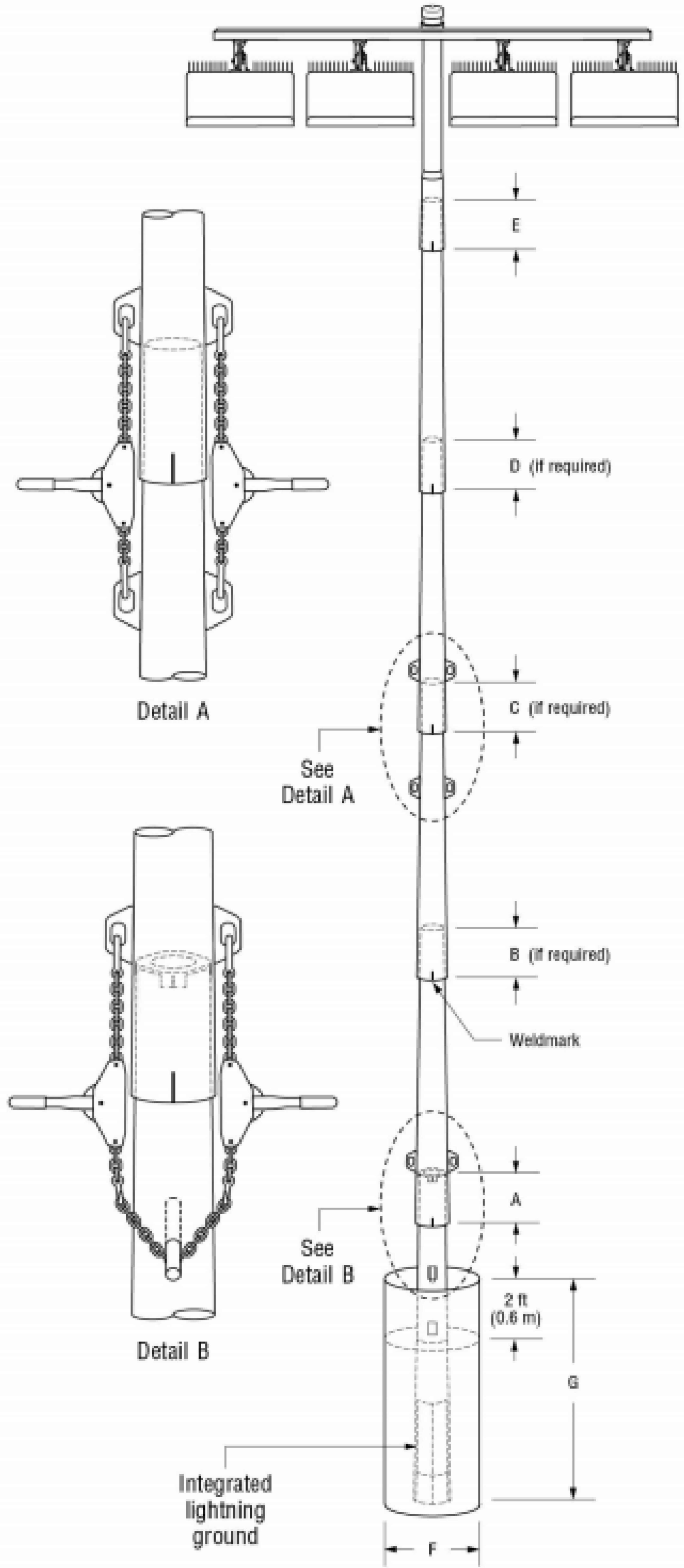


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BRIDGES OF POPLAR CREEK DRIVING RANGE
1400 POPLAR CREEK DRIVE
HOFFMAN ESTATES, IL 60169

project no.	2002487D
date:	03.14.2021 BID
revision 1:	
revision 2:	
revision 3:	
revision 4:	
checked:	MOV
drawn:	RC, DM

sheet title: ELECTRICAL SPEC. SYMBOLS & NOTES
sheet number: E2.2



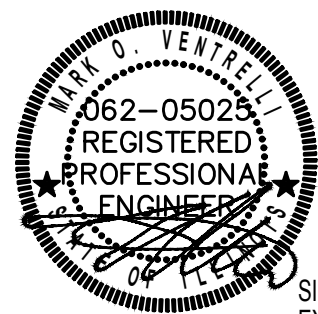
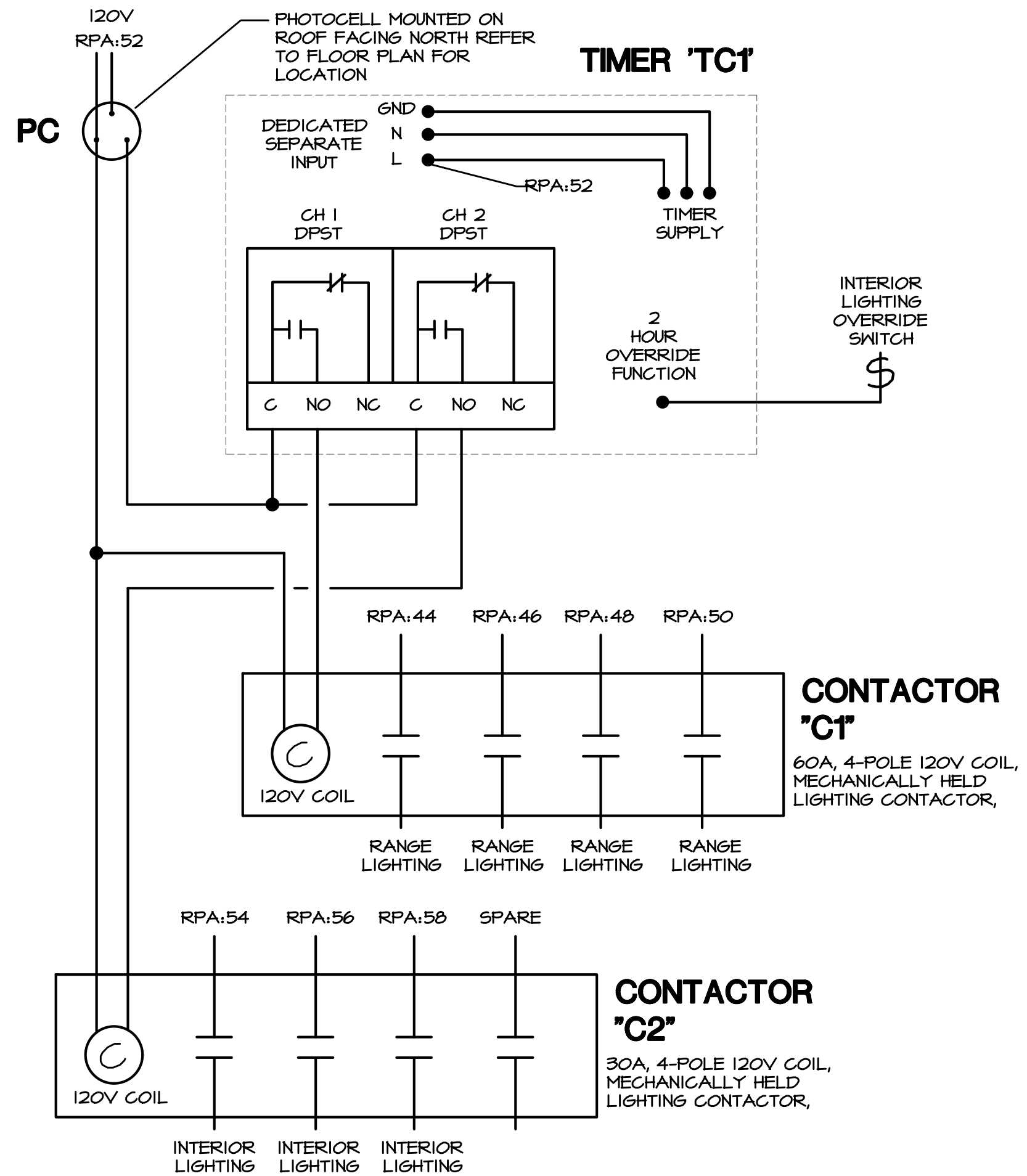
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MUSCO LIGHTING DETAIL

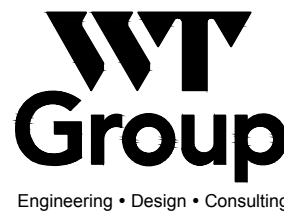
SCALE: NONE

LIGHTING FIXTURE SCHEDULE						
TYPE	DESCRIPTION & FEATURES	LAMPS		MOUNTING	VOLT	SPECIFIED MANUFACTURER AND CATALOG NUMBER
		QTY.	TYPE	CLG./POLE-TYPE		
A	4'-0" LED STRIP WITH LENS		30W LED	SURFACE	120	LITHONIA #ZLID-L48-3000LM-FST-MVOLT-35K-80CRI-WH
A1	4'-0" LED STRIP WITH LENS & BUILT-IN EMERGENCY BATTERY BACK-UP		30W LED	SURFACE	120	LITHONIA #ZLID-L48-3000LM-FST-MVOLT-35K-80CRI-ETW-WH
B	4'-0" LED WRAPAROUND		45.2W LED	SURFACE	120	LITHONIA #STL4-48L-EZI-LP830
B1	4'-0" LED WRAPAROUND W/BUILT-IN EMERGENCY BATTERY BACK-UP		34.9W LED	SURFACE	120	LITHONIA #STL4-48L-EZI-LP830 ELI4L
C	8'-0" LED SUSPENDED		50W LED	SUSPENDED	120	LITHONIA LL8 8000LM 80CRI 35K EPD MINIO ZT MVOLT WH ZAC120
C1	8'-0" LED SUSPENDED EMERGENCY BATTERY BACK-UP		50W LED	SUSPENDED	120	LITHONIA LL8 8000LM 80CRI 35K EPD MINIO ZT MVOLT IEIOWCP WH ZAC120
D	EXTERIOR CYLINDER		14W LED	SURFACE	120	LITHONIA-OLLWD LED P1 40K MVOLT DDB
F	60" PADDLE FAN			SURFACE	120	BIG ASS FAN-16 60" OUTDOOR FAN WITH REMOTE CONTROL
S	SPORTS LIGHT W/ 40' POLE		8-1430W LED	POLE	208	MUSCO-TLG LED 1500 5700K T5CRI 208V 40' POLE
X	LED EXIT SIGN WITH EMERGENCY BATTERY BACKUP		1W LED	SURFACE	120	LITHONIA #LQM-S-W-3-R-120/2TT-ELN

- NOTES:
- THE FIXTURE SCHEDULE DOES NOT NECESSARILY LIST ALL ACCESSORIES AND HARDWARE NECESSARY FOR THE COMPLETION OF INSTALLATION, NOR DOES IT DETAIL THE CEILING CONSTRUCTION TO BE ENCOUNTERED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY DETERMINE AND PROVIDE CORRECT COMPONENTS, ACCESSORIES, AND HARDWARE AS REQUIRED FOR THE INSTALLATION.
 - CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS AND CEILING CONTRACTOR FOR EXACT LIGHTING FIXTURE LOCATION.
 - ALL BATTERY BACK-UP EMERGENCY LIGHT AND EXIT SIGN LIGHTING FIXTURES INDICATED SHALL HAVE BATTERY BACK-UP RATED FOR 1-1/2 HOURS MINIMUM AND AS APPROVED BY LOCAL FIRE PREVENTION BUREAU.
 - EMERGENCY LIGHTING SHALL BE PROVIDED WITH SEPARATE EMERGENCY BATTERY PACK POWERED WITH SEPARATE HOT LEG. THE NORMAL DRIVER SHALL BE CONNECTED WITH ALL OTHER NORMAL FIXTURES CONTROLS. THE FIXTURE SHALL ACT AS A NORMAL CONTROLLABLE FIXTURE UNTIL LOSS OF POWER, AT THAT CONDITION EMERGENCY BATTERY PACK SHALL ENERGIZE LAMPS



SIGNED 03/19/21
EXPIRES 11/30/21



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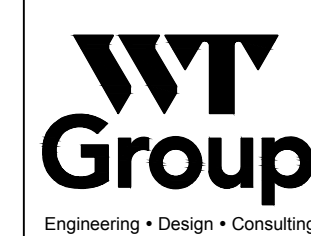
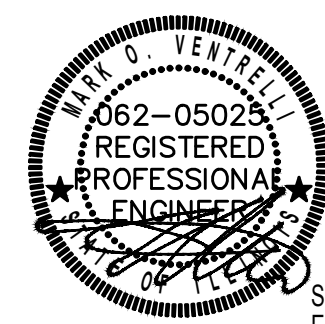
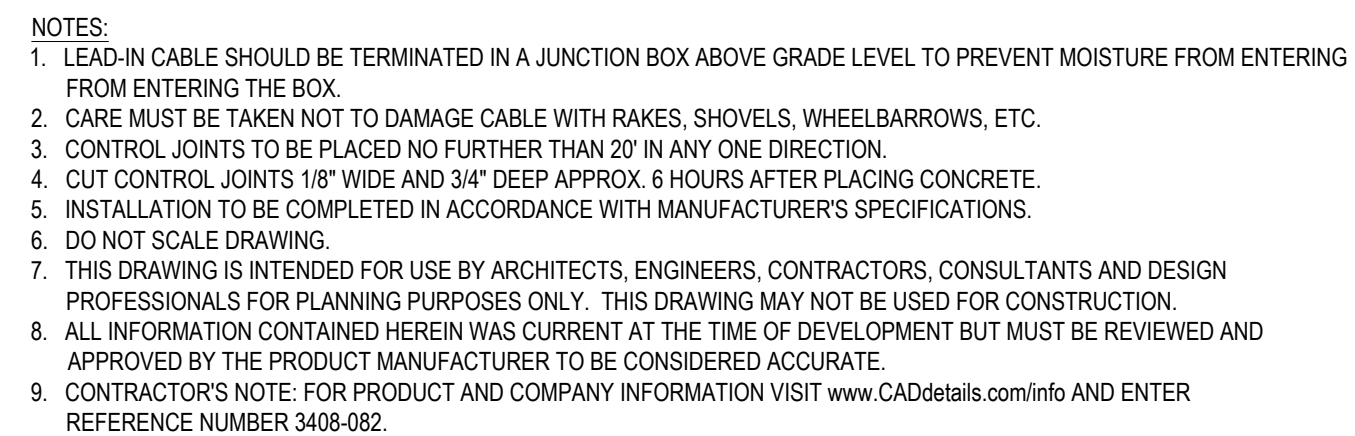
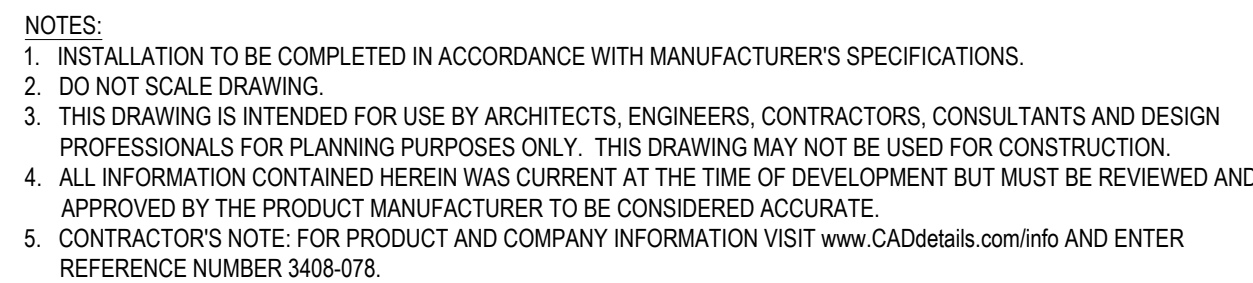
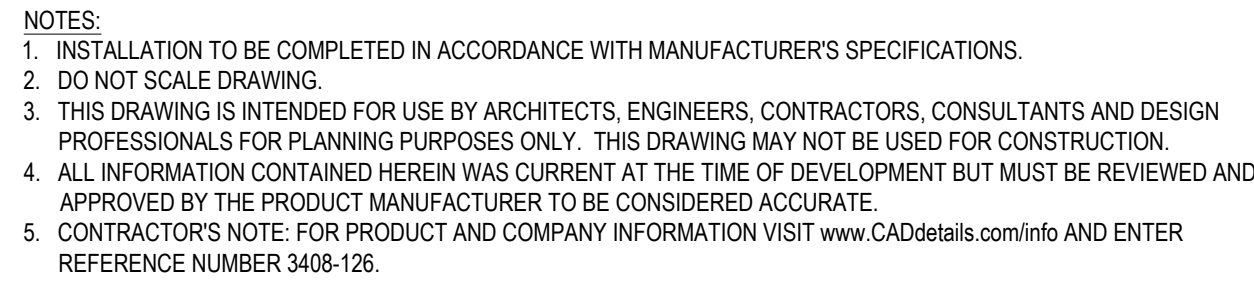
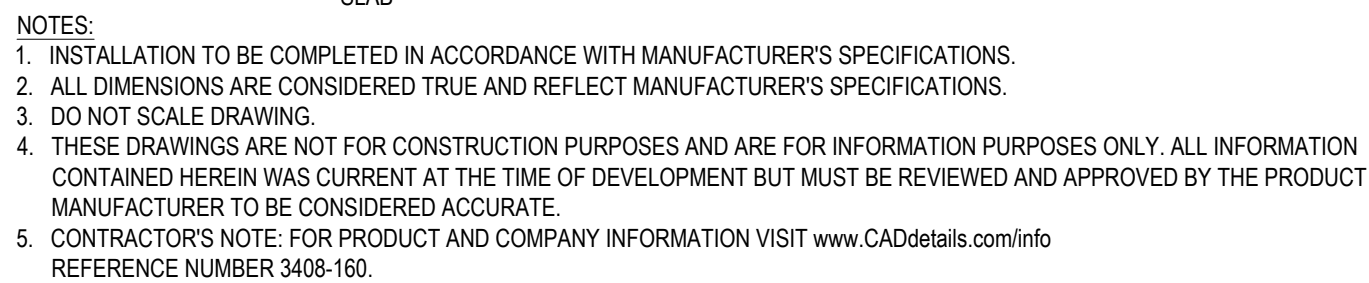
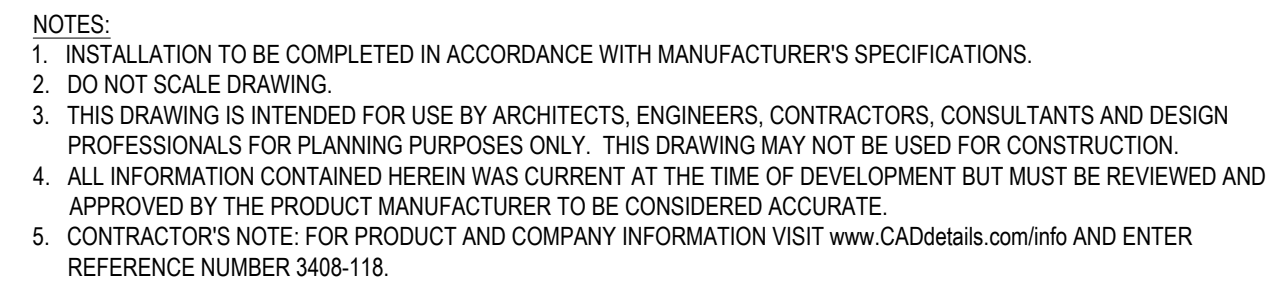
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revision 4:
checked: MOV
drawn: RC, DM

sheet title: LIGHTING FIXTURE SCHEDULE
sheet number: E2.3

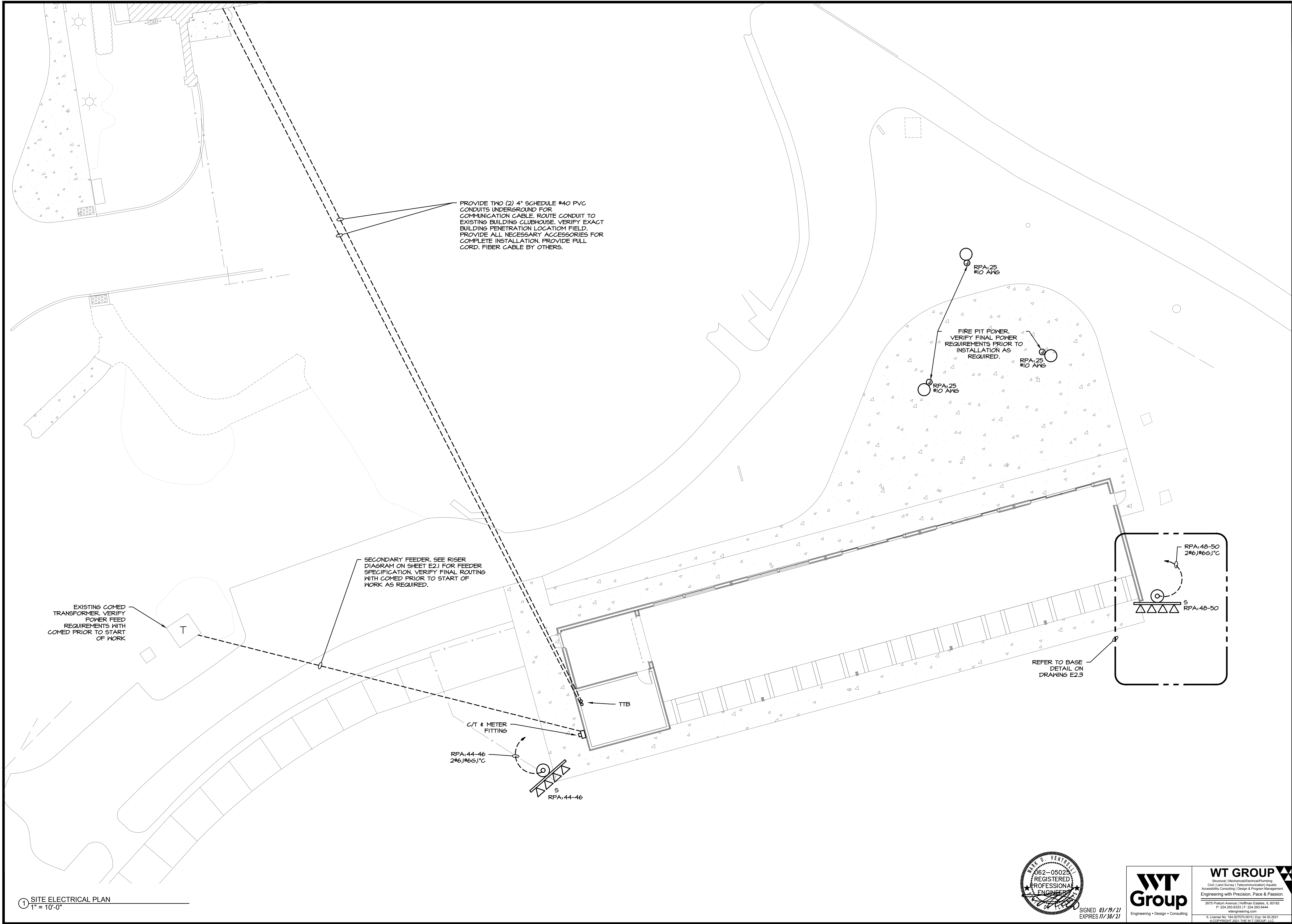
API ARCHITECTS
2675 PLATINUM AVENUE
HOFFMAN ESTATES, IL 60132
OFFICE 912.509.1842



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P: 224.293.6333 | F: 224.293.6444
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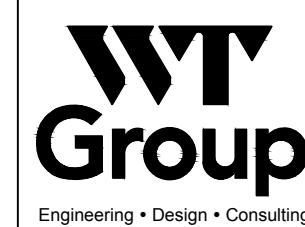
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1 SITE ELECTRICAL PLAN
1" = 10'-0"

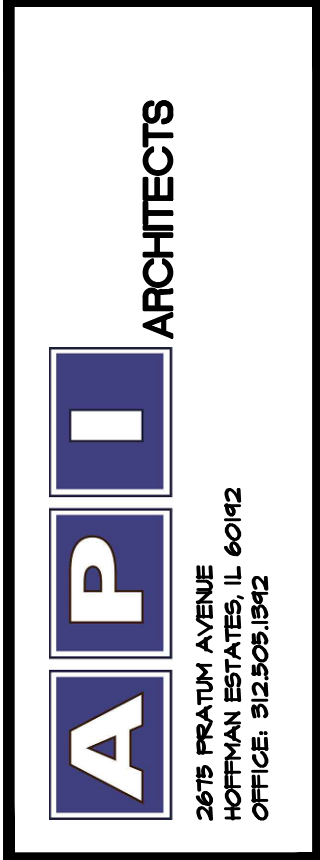


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sheet number: SE1.1