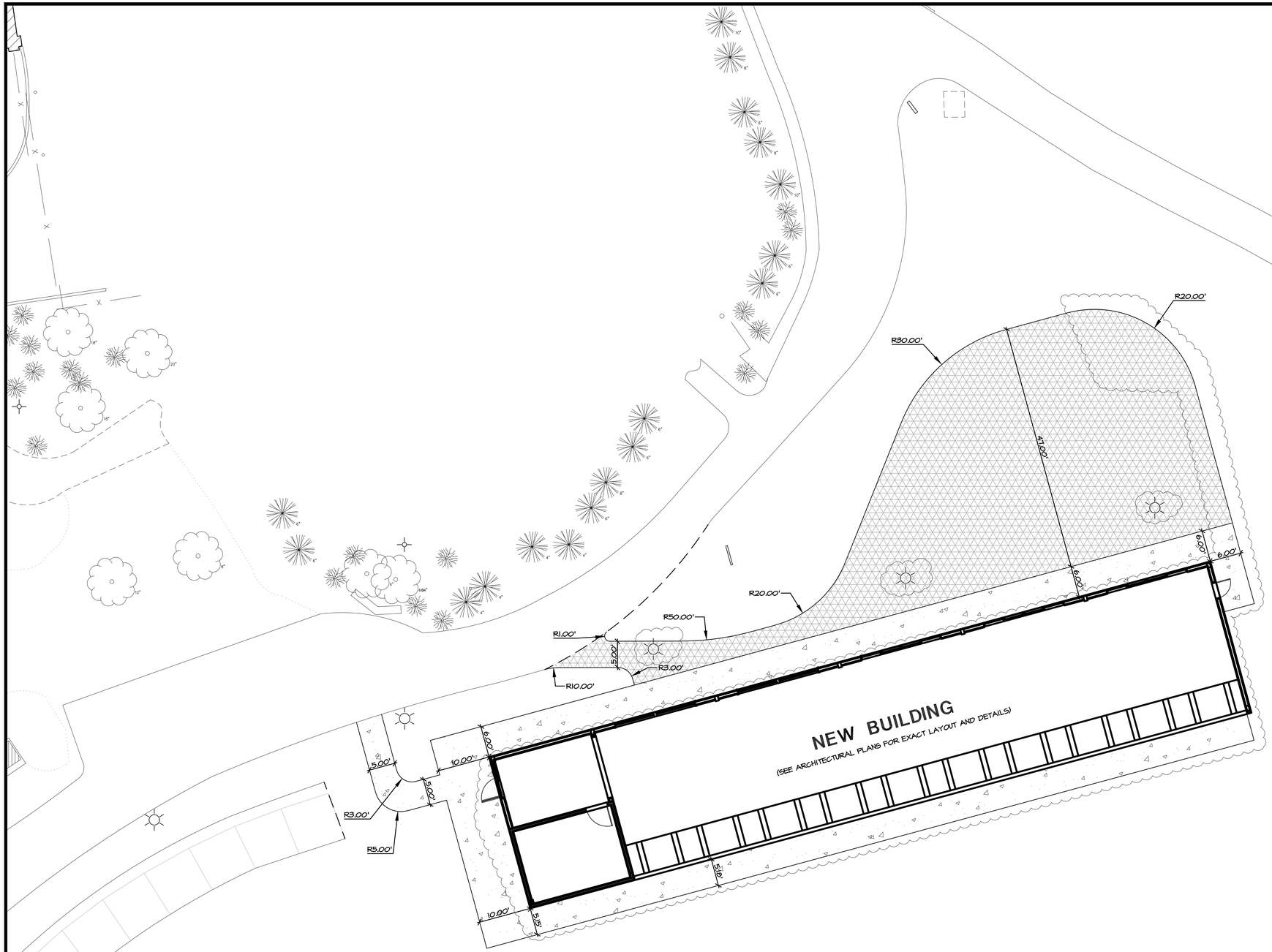
SITE GEOMETRIC NOTES:

A. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS PER THE TOPOGRAPHIC SURVEY LAST DATED 12-10-20, PREPARED BY MT GROUP. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS AND CONDITIONS (INCLUDING BUT NOT LIMITED TO VERIFICATION OF CONTROL AND ALL UTILITIES WHETHER DEPICTED OR NOT) PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
B. ALL DIMENSIONS SHOWN ARE MEASURED FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT OR FACE OF CURB UNLESS OTHERWISE NOTED.
C. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH THE ARCHITECTURAL PLANS.
D. SEE THE ARCHITECTURAL PLANS FOR THE DESIGN OF ALL BUILDING ENTRIES.
E. CONSTRUCTION SURVEY AND STAKEOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
F. CONTRACTOR SHALL HIRE A PRIVATE UTILITY LOCATOR TO LOCATE UTILITIES PRIOR TO CONSTRUCTION AND SHALL CONTACT THE SITE ENGINEER IF A CONFLICT EXISTS.
G. CONTRACTOR SHALL CONTACT J.U.L.I.E. (811 OR 1-800-892-0123) AND PRIVATE LOCATING SERVICE TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO STARTING ANY DEMOLITION AND/OR EXCAVATION. EXACT LOCATIONS OF ANY EXISTING ELECTRIC, GAS, TELEPHONE, ETC. LINES ARE UNKNOWN.
H. ALL PAINTED CURB ON SITE TO BE REPAINTED FOLLOWING RESURFACING OF THE PARKING LOT. MATCH EXISTING COLOR, REPAINT WITH HIGH QUALITY PAINT.

PAVEMENT SECTIONS

BID AS BASE BID: NEW 5" CONCRETE SIDEWALK
5" PORTLAND CEMENT CONCRETE
4" CA-6

BID AS ALTERNATE BID #1: NEW 4" CONCRETE PATIO
4" PORTLAND CEMENT CONCRETE
4" CA-6



NORTH

SCALE: 1" = 10'

00 5 10 20 40

WT GROUP JOB NUMBER-2002487D

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

project no.	2002487D
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sheet title: SITE GEOMETRIC PLAN

sheet number: C-2.0

SITE DEVELOPMENT NOTES:

A. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS PER THE TOPOGRAPHIC SURVEY LAST DATED 12-10-20, PREPARED BY KT GROUP. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS AND CONDITIONS (INCLUDING BUT NOT LIMITED TO VERIFICATION OF CONTROL AND ALL UTILITIES WHETHER DEPICTED OR NOT) PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
B. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH THE ARCHITECTURAL PLANS.
C. SEE THE ARCHITECTURAL PLANS FOR THE DESIGN OF ALL BUILDING ENTRIES.
D. CONSTRUCTION SURVEY AND STAKEOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
E. ALL EXISTING TREES SHOWN ARE TO REMAIN UNLESS OTHERWISE NOTED.
F. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS OUTSIDE OF CONSTRUCTION LIMITS TO ORIGINAL CONDITION OR BETTER.
G. CONTRACTOR SHALL RESTORE ALL DISTURBED GREEN SPACES WITH 6" OF TOPSOIL, SEED, AND EROSION CONTROL BLANKET.
H. CONTRACTOR SHALL REPAIR AT HIS EXPENSE ANY DAMAGE TO EXISTING ASPHALT , CONCRETE, CURBS, SIDEWALKS, ETC. RESULTING FROM CONSTRUCTION TRAFFIC AND/OR OPERATIONS. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
I. CONTRACTOR SHALL RE-STRIPE ALL STRIPING DISTURBED WITHIN THE EXISTING ROADWAYS/PARKING LOT TO MATCH EXISTING.
J. CONTRACTOR SHALL HIRE A PRIVATE UTILITY LOCATOR TO LOCATE UTILITIES PRIOR TO CONSTRUCTION AND SHALL CONTACT THE SITE ENGINEER IF A CONFLICT EXISTS.
K. ALL ITEMS MARKED "EXISTING" TO BE PROTECTED FROM DAMAGE FOR THE DURATION OF CONSTRUCTION.

PROJECT NOTES:

1. NEW BUILDING. (SEE ARCHITECTURAL PLANS FOR EXACT LAYOUT AND DETAILS).
2. NEW FULL DEPTH SAWCUT PROVIDE CLEAN CONSTRUCTION BREAK.
3. BID AS BASE BID: NEW 5" CONCRETE SIDEWALK. NOTE: DOWEL CONCRETE WALK INTO BUILDING FOUNDATION AT ALL DOORS TO PREVENT FROST HEAVE. USE #4 REBAR AT 16" O.C. MINIMUM.
4. BID AS ALTERNATE BID #1: NEW 4" CONCRETE PATIO.
5. EXISTING ASPHALT PAVEMENT TO REMAIN.
6. EXISTING AREA LIGHT TO REMAIN.
7. EXISTING MAIN ID SIGN TO REMAIN. PARK DISTRICT TO ADJUST SIGN TO MEET PROPOSED GRADE.

THE OWNER IS STILL DECIDING ON THE SIZE OF THE FIRE PITS THAT WILL BE INSTALLED WITHIN THE CONCRETE PATIO. THE CONCRETE CONTRACTOR'S PRICING SHALL INCLUDE THE QUANTITY OF CONCRETE PATIO AS SHOWN ON THE ATTACHED SITE DEVELOPMENT PLAN. ONCE THE FIRE PIT SIZES ARE DETERMINED THE CONCRETE CONTRACTOR WILL NEED TO CREDIT THE QUANTITY OF CONCRETE REMOVAL FOR THE INSTALLATION OF THE FIRE PITS UTILIZING THEIR UNIT PRICES INCLUDED ON THE BID SHEET.

PAVEMENT SECTIONS

BASE BID: NEW 5" CONCRETE SIDEWALK
5" PORTLAND CEMENT CONCRETE
4" CA-6

BID AS ALTERNATE BID #1: NEW 4" CONCRETE PATIO
4" PORTLAND CEMENT CONCRETE
4" CA-6

NOTE: THE CONCRETE CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING AND COMPACTION OF THE SUBGRADE PRIOR TO INSTALLATION OF THE CA-6 SUBBASE, CONCRETE SLABS AND CONCRETE SIDEWALK/PATIO.

NEW BUILDING

NORTH

SCALE: 1" = 10'

00 5 10 20 40

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sheet title: SITE DEVELOPMENT PLAN

sheet number: C-3.0

GRADING LEGEND

+000.00	EXISTING SPOT GRADE
000.00	PROPOSED SPOT GRADE
*000.00	INTERPOLATED SPOT GRADE (VERIFY ELEVATIONS IN FIELD)
000.00	PROPOSED RIM ELEVATION
— — 000 — —	EXISTING CONTOUR LINE
000	PROPOSED CONTOUR LINE
	OVERLAND FLOW ARROW
	100 YEAR OVERLAND FLOW ROUTE
TW	TOP OF SIDEWALK ELEVATION
G	FINISHED GRADE ELEVATION
FF	FINISHED FLOOR ELEVATION
	EXISTING OPEN GRATE MANHOLE
	EXISTING IRRIGATION SPRINKLER HEAD / CONTROL VALVE
	PROPOSED NDS CATCH BASIN
	PROPOSED NDS FLO-WELL
	BASE BID: NEW 5" CONCRETE SIDEWALK 5" PORTLAND CEMENT CONCRETE 4" CA-6

SITE GRADING NOTES:

A. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS PER THE TOPOGRAPHIC SURVEY LAST DATED 12-10-20, PREPARED BY INT GROUP. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS AND CONDITIONS (INCLUDING BUT NOT LIMITED TO VERIFICATION OF CONTROL AND ALL UTILITIES (WHETHER DEPICTED OR NOT) PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

B. ALL PROPOSED GRADES ARE GIVEN TO FINISHED GRADE, I.E. TOP OF PROPOSED ASPHALT, CONCRETE, TOP OF PROPOSED CURB, ETC. SEE DETAILS FOR PAVEMENT THICKNESS.

C. CONTRACTOR SHALL CONTACT J.U.L.I.E. (811 OR 1-800-892-0123) AND PRIVATE LOCATING SERVICE TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO STARTING ANY DEMOLITION AND/OR EXCAVATION. EXACT LOCATIONS OF ANY EXISTING ELECTRIC, GAS, TELEPHONE, ETC. LINES ARE UNKNOWN.

D. CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE END OF EACH WORKING DAY DURING CONSTRUCTION OPERATIONS. FAILURE TO PROVIDE ADEQUATE DRAINAGE WILL PRECLUDE THE CONTRACTOR FROM ANY POSSIBLE COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT.

E. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS OUTSIDE OF CONSTRUCTION LIMITS TO ORIGINAL CONDITION OR BETTER.

F. CONTRACTOR SHALL REPAIR AT HIS EXPENSE ANY DAMAGE TO EXISTING ASPHALT, CONCRETE, CURBS, SIDEWALKS, ETC. RESULTING FROM CONSTRUCTION TRAFFIC AND/OR OPERATIONS. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.

G. CONTRACTOR TO UTILIZE CARE WHEN WORKING NEAR EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES NOT NOTED TO BE REMOVED SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.

H. ALL EXISTING TREES SHOWN ARE TO REMAIN UNLESS OTHERWISE NOTED.

I. ALL HANDICAP ACCESSIBLE ROUTES (SIDEWALKS, WALKWAYS, PAVEMENTS, ETC.) SHALL MAINTAIN A MAXIMUM CROSS SLOPE OF 2.00% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00%. ACCESSIBLE PARKING STALLS SHALL MAINTAIN A MAXIMUM SLOPE OF 2.00% IN ALL DIRECTIONS.

J. VOIDS LEFT BY ANY ITEM REMOVED UNDER ANY PROPOSED BUILDING, PAVEMENT, OR WALK OR WITHIN 24" THEREOF SHALL BE BACKFILLED WITH ENGINEERED FILL ACCORDING TO THE GEOTECHNICAL REPORT.

K. ALL FIRE ACCESS LANES WITHIN THE PROJECT AREA SHALL REMAIN IN SERVICE, CLEAN OF DEBRIS, AND ACCESSIBLE FOR USE BY EMERGENCY VEHICLES.

L. CONSTRUCTION ACCESS POINTS TO THE SITE SHALL BE PROTECTED IN SUCH A WAY AS TO PREVENT TRACKING OF MUD OR SOIL ONTO PUBLIC THOROUGHFARES. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.

M. ALL EXISTING SUBGRADE TO BE SCARIFIED (DISKED) TO A DEPTH OF 12" AND RE-COMPACTED, AND THEN TESTED USING A DYNAMIC CONE PENETROMETER. SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.

N. ALL EXCESS SOILS THAT CANNOT BE USED AS SUITABLE FILL SHALL BE HAULED FROM THE SITE AND LEGALLY DISPOSED OF.

NOTES:
1. THE PARK DISTRICT IS RESPONSIBLE FOR ALL GRADING AND RESTORATION WITH THE EXCEPTION OF THE FINE GRADING AND COMPACTION OF THE SUBGRADE.
2. THE CONCRETE CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING AND COMPACTION OF THE SUBGRADE PRIOR TO INSTALLATION OF THE CA-6 SUBBASE, CONCRETE SLABS AND CONCRETE SIDEWALK.

EXISTING UTILITY DATA

7 — RIM=793.44'(SAN)
48" CONCRETE STRUCTURE
INV=782.12'(10" CLAY NNE & SW)
INV=782.12'(8" CLAY NW)

8 — RIM=802.62'(WATER)
48" CONCRETE STRUCTURE
797.57' AT TOP OF 2" LINE NW
STRUCTURE FULL OF WATER
UNABLE TO SEE PIPE

9 — RIM=803.23'(STORM)
12" CORRUGATED PLASTIC
INV=8022.33'(6" CPP NW)

NORTH

SCALE: 1" = 10'

00 5 10 20 40

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sheet title:
SITE GRADING PLAN - BASE BID

sheet number:
C-4.0

GRADING LEGEND

+ 000.00	EXISTING SPOT GRADE
000.00	PROPOSED SPOT GRADE
*000.00	INTERPOLATED SPOT GRADE (VERIFY ELEVATIONS IN FIELD)
000.00	PROPOSED RIM ELEVATION
— — 000 — —	EXISTING CONTOUR LINE
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	OVERLAND FLOW ARROW
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	BASE BID: NEW 5" CONCRETE SIDEWALK 5" PORTLAND CEMENT CONCRETE 4" CA-6
	ALTERNATE BID #1: NEW 4" CONCRETE PATIO 4" PORTLAND CEMENT CONCRETE 4" CA-6

SITE GRADING NOTES:

A. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS PER THE TOPOGRAPHIC SURVEY LAST DATED 12-10-20, PREPARED BY INT GROUP. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS AND CONDITIONS (INCLUDING BUT NOT LIMITED TO VERIFICATION OF CONTROL AND ALL UTILITIES (WHETHER DEPICTED OR NOT) PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

B. ALL PROPOSED GRADES ARE GIVEN TO FINISHED GRADE, I.E. TOP OF PROPOSED ASPHALT, CONCRETE, TOP OF PROPOSED CURB, ETC. SEE DETAILS FOR PAVEMENT THICKNESS.

C. CONTRACTOR SHALL CONTACT J.U.L.I.E. (811 OR 1-800-892-0123) AND PRIVATE LOCATING SERVICE TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO STARTING ANY DEMOLITION AND/OR EXCAVATION. EXACT LOCATIONS OF ANY EXISTING ELECTRIC, GAS, TELEPHONE, ETC. LINES ARE UNKNOWN.

D. CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE END OF EACH WORKING DAY DURING CONSTRUCTION OPERATIONS. FAILURE TO PROVIDE ADEQUATE DRAINAGE WILL PRECLUDE THE CONTRACTOR FROM ANY POSSIBLE COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT.

E. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS OUTSIDE OF CONSTRUCTION LIMITS TO ORIGINAL CONDITION OR BETTER.

F. CONTRACTOR SHALL REPAIR AT HIS EXPENSE ANY DAMAGE TO EXISTING ASPHALT, CONCRETE, CURBS, SIDEWALKS, ETC. RESULTING FROM CONSTRUCTION TRAFFIC AND/OR OPERATIONS. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.

G. CONTRACTOR TO UTILIZE CARE WHEN WORKING NEAR EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES NOT NOTED TO BE REMOVED SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.

H. ALL EXISTING TREES SHOWN ARE TO REMAIN UNLESS OTHERWISE NOTED.

I. ALL HANDICAP ACCESSIBLE ROUTES (SIDEWALKS, WALKWAYS, PAVEMENTS, ETC.) SHALL MAINTAIN A MAXIMUM CROSS SLOPE OF 2.00% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00%. ACCESSIBLE PARKING STALLS SHALL MAINTAIN A MAXIMUM SLOPE OF 2.00% IN ALL DIRECTIONS.

J. VOIDS LEFT BY ANY ITEM REMOVED UNDER ANY PROPOSED BUILDING, PAVEMENT, OR WALK OR WITHIN 24" THEREOF SHALL BE BACKFILLED WITH ENGINEERED FILL ACCORDING TO THE GEOTECHNICAL REPORT.

K. ALL FIRE ACCESS LANES WITHIN THE PROJECT AREA SHALL REMAIN IN SERVICE, CLEAN OF DEBRIS, AND ACCESSIBLE FOR USE BY EMERGENCY VEHICLES.

L. CONSTRUCTION ACCESS POINTS TO THE SITE SHALL BE PROTECTED IN SUCH A WAY AS TO PREVENT TRACKING OF MUD OR SOIL ONTO PUBLIC THOROUGHFARES. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.

M. ALL EXISTING SUBGRADE TO BE SCARIFIED (DISKED) TO A DEPTH OF 12" AND RE-COMPACTED, AND THEN TESTED USING A DYNAMIC CONE PENETROMETER. SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.

N. ALL EXCESS SOILS THAT CANNOT BE USED AS SUITABLE FILL SHALL BE HAULED FROM THE SITE AND LEGALLY DISPOSED OF.

NOTES:
1. THE PARK DISTRICT IS RESPONSIBLE FOR ALL GRADING AND RESTORATION WITH THE EXCEPTION OF THE FINE GRADING AND COMPACTION OF THE SUBGRADE.
2. THE CONCRETE CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING AND COMPACTION OF THE SUBGRADE PRIOR TO INSTALLATION OF THE CA-6 SUBBASE, CONCRETE SLABS AND CONCRETE SIDEWALK/PATIO.

EXISTING UTILITY DATA

7 — RIM=793.44'(SAN)
48" CONCRETRE STRUCTURE
INV=782.12'(10" CLAY NNE & SW)
INV=782.12'(8" CLAY NW)

8 — RIM=802.62'(WATER)
48" CONCRETE STRUCTURE
797.57' AT TOP OF 2" LINE NW
STRUCTURE FULL OF WATER
UNABLE TO SEE PIPE

9 — RIM=803.23'(STORM)
12" CORRUGATED PLASTIC
INV=8022.33'(6" CPP NW)

NORTH

SCALE: 1" = 10'

0 0 5 10 20 40

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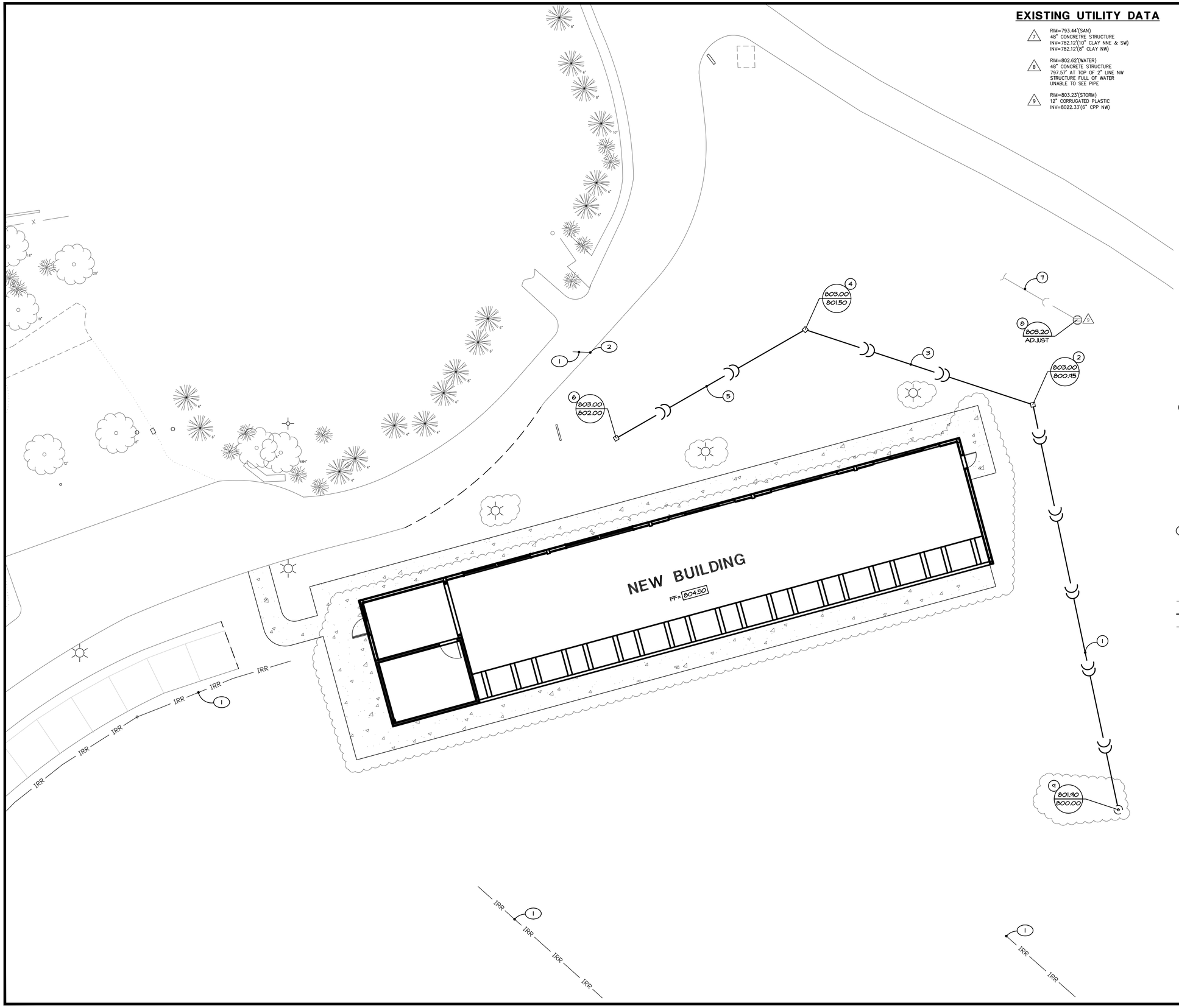
sheet number: C-4.1



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SITE UTILITY NOTES:

A. CONTRACTOR SHALL CONTACT J.U.L.I.E. (811 OR 1-800-892-0123) AND PRIVATE LOCATING SERVICE TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO STARTING ANY DEMOLITION AND/OR EXCAVATION. EXACT LOCATIONS OF ANY EXISTING ELECTRIC, GAS, TELEPHONE, ETC. LINES ARE UNKNOWN.
B. CONTRACTOR TO UTILIZE CARE WHEN WORKING NEAR EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES NOT NOTED TO BE REMOVED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
C. CONTRACTOR SHALL EXCAVATE AND VERIFY IN FIELD ALL EXISTING UTILITY LOCATIONS, SIZES, CONDITIONS AND ELEVATIONS AT PROPOSED POINTS OF CONNECTION PRIOR TO ANY UNDERGROUND CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO PROCEEDING WITH CONSTRUCTION.
D. REFER TO THE GENERAL NOTES AND SPECIFICATION SHEETS FOR ALL PIPE MATERIAL AND JOINT SPECIFICATIONS.
E. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS OUTSIDE OF CONSTRUCTION LIMITS TO ORIGINAL CONDITION OR BETTER.
F. CONTRACTOR SHALL VERIFY IN FIELD EXACT SIZE, MATERIAL, INVERT, PIPE ROUTING, AND SLOPE OF ALL EXISTING UTILITIES AND NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO CONSTRUCTION.
G. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF UTILITY TRENCHES DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY SHORING AND BRACING AS NECESSARY TO MAINTAIN STABILITY UNTIL CONSTRUCTION OF THE UTILITY IS COMPLETE IN ORDER TO MEET OSHA AND LOCAL CODES, AS WELL AS MANUFACTURER'S REQUIREMENTS.
H. ALL RCP STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE, CLASS IV, PER ASTM C-76 WITH FLEXIBLE (O-RING) GASKET JOINTS IN CONFORMANCE WITH ASTM C-443 AND SECTION 31-1.08 OF THE "STANDARD SPECIFICATIONS".
I. TRENCH BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR DENSITY (ASTM D-1557) OVER ALL UNDERGROUND UTILITIES WHICH ARE CONSTRUCTED UNDER OR WITHIN 2 FEET OF ANY PROPOSED OR EXISTING PAVEMENT OR SIDEWALKS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
J. ADJUST RIM ELEVATIONS OF EXISTING STRUCTURES IN PAVEMENT AS NECESSARY TO MEET PROPOSED FINISHED GRADE.
K. CONTRACTOR TO COORDINATE ALL CONNECTIONS TO CITY UTILITIES AND STORM SEWERS WITH THE PUBLIC WORKS DEPARTMENT.
L. CONTRACTOR TO USE CAUTION WHEN EXCAVATING AT EXISTING UTILITY LINES.
M. ALL STORM MANHOLES SHALL HAVE OPEN LIDS UNLESS OTHERWISE SPECIFIED.

STORM NOTES

1. NEW 6" HDPE, 95 L.F. @ 1.00% MINIMUM SLOPE.
2. NEW 12" NDS CATCH BASIN WITH 12" SQUARE GRATE AND ALL NECESSARY FITTINGS.
3. NEW 6" HDPE, 55 L.F. @ 1.00% SLOPE.
4. NEW 12" NDS CATCH BASIN WITH 12" SQUARE GRATE AND ALL NECESSARY FITTINGS.
5. NEW 6" HDPE, 50 L.F. @ 1.00% SLOPE.
6. NEW 12" NDS CATCH BASIN WITH 12" SQUARE GRATE AND ALL NECESSARY FITTINGS.
7. EXISTING STORM SEWER TO REMAIN.
8. EXISTING STORM STRUCTURE TO REMAIN. FRAME AND GRATE TO BE ADJUSTED BY PARK DISTRICT TO MEET PROPOSED GRADE.
9. NEW NDS FLOW WELL.

MISCELLANEOUS NOTES

1. EXISTING IRRIGATION LINE TO BE ABANDONED BY PARK DISTRICT.
2. PARK DISTRICT TO CAP IRRIGATION LINE AT THIS POINT.

UTILITY LEGEND

- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING IRRIGATION LINE (IRR)
- 000.00 / 000.00 — PROPOSED RIM ELEVATION / PROPOSED INVERT ELEVATION
- EXISTING OPEN GRATE MANHOLE
- EXISTING IRRIGATION SPRINKLER HEAD / CONTROL VALVE
- PROPOSED NDS CATCH BASIN
- FF — FINISHED FLOOR ELEVATION
- INTERPOLATED ELEVATION (VERIFY ELEVATION IN FIELD)
- PROPOSED NDS FLO-WELL

NORTH

SCALE: 1" = 10'

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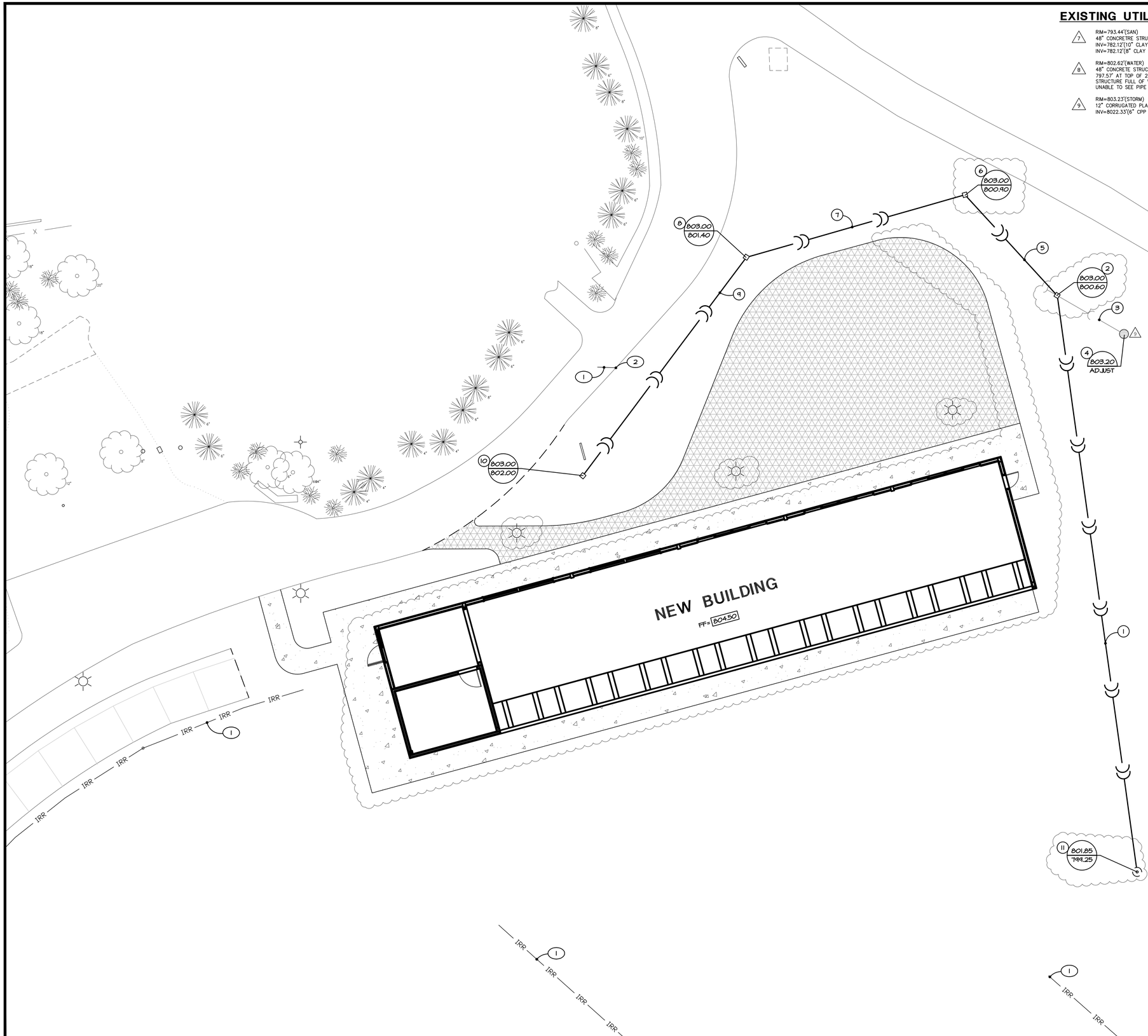
sheet title: SITE UTILITY PLAN - BASE BID

sheet number: C-5.0



EXISTING UTILITY DATA

7 RIM=793.44'(SAN)
48" CONCRETE STRUCTURE
INV=782.12'(10" CLAY NNE & SW)
INV=782.12'(8" CLAY NW)

8 RIM=802.62'(WATER)
48" CONCRETE STRUCTURE
797.57' AT TOP OF 2" LINE NW
STRUCTURE FULL OF WATER
UNABLE TO SEE PIPE

9 RIM=803.23'(STORM)
12" CORRUGATED PLASTIC
INV=8022.33'(6" CPP NW)

SITE UTILITY NOTES:

A. CONTRACTOR SHALL CONTACT J.U.L.I.E. (811 OR 1-800-892-0123) AND PRIVATE LOCATING SERVICE TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO STARTING ANY DEMOLITION AND/OR EXCAVATION. EXACT LOCATIONS OF ANY EXISTING ELECTRIC, GAS, TELEPHONE, ETC. LINES ARE UNKNOWN.
B. CONTRACTOR TO UTILIZE CARE WHEN WORKING NEAR EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES NOT NOTED TO BE REMOVED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
C. CONTRACTOR SHALL EXCAVATE AND VERIFY IN FIELD ALL EXISTING UTILITY LOCATIONS, SIZES, CONDITIONS AND ELEVATIONS AT PROPOSED POINTS OF CONNECTION PRIOR TO ANY UNDERGROUND CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO PROCEEDING WITH CONSTRUCTION.
D. REFER TO THE GENERAL NOTES AND SPECIFICATION SHEETS FOR ALL PIPE MATERIAL AND JOINT SPECIFICATIONS.
E. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS OUTSIDE OF CONSTRUCTION LIMITS TO ORIGINAL CONDITION OR BETTER.
F. CONTRACTOR SHALL VERIFY IN FIELD EXACT SIZE, MATERIAL, INVERT, PIPE ROUTING, AND SLOPE OF ALL EXISTING UTILITIES AND NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO CONSTRUCTION.
G. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF UTILITY TRENCHES DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY SHORING AND BRACING AS NECESSARY TO MAINTAIN STABILITY UNTIL CONSTRUCTION OF THE UTILITY IS COMPLETE IN ORDER TO MEET OSHA AND LOCAL CODES, AS WELL AS MANUFACTURER'S REQUIREMENTS.
H. ALL RCP STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE, CLASS IV, PER ASTM C-76 WITH FLEXIBLE (O-RING) GASKET JOINTS IN CONFORMANCE WITH ASTM C-443 AND SECTION 31-1.08 OF THE "STANDARD SPECIFICATIONS".
I. TRENCH BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR DENSITY (ASTM D-1557) OVER ALL UNDERGROUND UTILITIES WHICH ARE CONSTRUCTED UNDER OR WITHIN 2 FEET OF ANY PROPOSED OR EXISTING PAVEMENT OR SIDEWALKS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
J. ADJUST RIM ELEVATIONS OF EXISTING STRUCTURES IN PAVEMENT AS NECESSARY TO MEET PROPOSED FINISHED GRADE.
K. CONTRACTOR TO COORDINATE ALL CONNECTIONS TO CITY UTILITIES AND STORM SEWERS WITH THE PUBLIC WORKS DEPARTMENT.
L. CONTRACTOR TO USE CAUTION WHEN EXCAVATING AT EXISTING UTILITY LINES.
M. ALL STORM MANHOLES SHALL HAVE OPEN LIDS UNLESS OTHERWISE SPECIFIED.

STORM NOTES

1. NEW 6" HDPE, 132 L.F. @ 1.03% MINIMUM SLOPE.
2. NEW 12" NDS CATCH BASIN WITH 12" SQUARE GRATE AND ALL NECESSARY FITTINGS.
3. EXISTING STORM SEWER TO REMAIN.
4. EXISTING STORM STRUCTURE TO REMAIN. FRAME AND GRATE TO BE ADJUSTED BY PARK DISTRICT TO MEET PROPOSED GRADE.
5. NEW 6" HDPE, 30 L.F. @ 1.00% SLOPE.
6. NEW 12" NDS CATCH BASIN WITH 12" SQUARE GRATE AND ALL NECESSARY FITTINGS.
7. NEW 6" HDPE, 50 L.F. @ 1.00% SLOPE.
8. NEW 12" NDS CATCH BASIN WITH 12" SQUARE GRATE AND ALL NECESSARY FITTINGS.
9. NEW 6" HDPE, 60 L.F. @ 1.00% SLOPE.
10. NEW 12" NDS CATCH BASIN WITH 12" SQUARE GRATE AND ALL NECESSARY FITTINGS.
11. NEW NDS FLOW WELL.

MISCELLANEOUS NOTES

1. EXISTING IRRIGATION LINE TO BE ABANDONED BY PARK DISTRICT.
2. PARK DISTRICT TO CAP IRRIGATION LINE AT THIS POINT.

UTILITY LEGEND

- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING IRRIGATION LINE (IRR)
- 000.00 — PROPOSED RIM ELEVATION
- 000.00 — PROPOSED INVERT ELEVATION
- EXISTING OPEN GRATE MANHOLE
- EXISTING IRRIGATION SPRINKLER HEAD / CONTROL VALVE
- PROPOSED NDS CATCH BASIN
- FF — FINISHED FLOOR ELEVATION
- INTERPOLATED ELEVATION (VERIFY ELEVATION IN FIELD)
- PROPOSED NDS FLO-WELL

NORTH

SCALE: 1" = 10'

0 0 5 10 20 40

WT GROUP JOB NUMBER-2002487D

WT Group
Engineering • Design • Consulting

WT GROUP
Structural | Mechanical|Electrical|Plumbing
Civil | Land Survey | Telecommunication| Aquatic
Accessibility Consulting | Design & Program Management
Engineering with Precision, Pace & Passion.
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BRIDGES OF POPLAR CREEK DRIVING RANGE
1400 POPLAR CREEK DRIVE
HOFFMAN ESTATES, IL 60169

project no.	2002487D
date:	03.19.2021
revision 1:	03.30.2021
revision 2:	04.06.2021
revision 3:	
revision 4:	
checked:	TOA
drawn:	VE

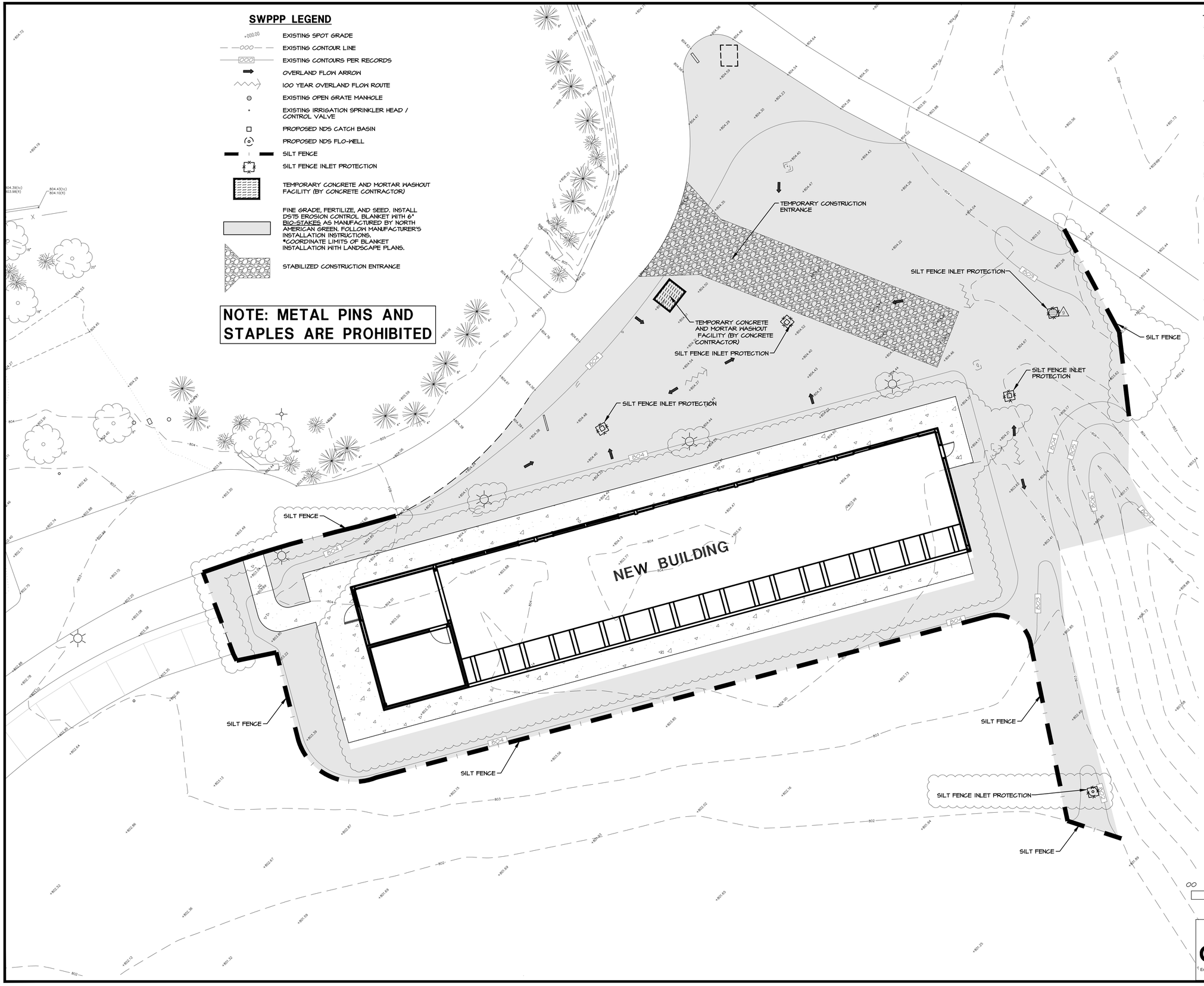
sheet title: SITE UTILITY PLAN - ALTERNATE #1

sheet number: C-5.1

SWPPP LEGEND

- +000.00 — EXISTING SPOT GRADE
- EXISTING CONTOUR LINE
- EXISTING CONTOURS PER RECORDS
- OVERLAND FLOW ARROW
- 100 YEAR OVERLAND FLOW ROUTE
- EXISTING OPEN GRATE MANHOLE
- EXISTING IRRIGATION SPRINKLER HEAD / CONTROL VALVE
- PROPOSED NDS CATCH BASIN
- PROPOSED NDS FLO-WELL
- SILT FENCE
- SILT FENCE INLET PROTECTION
- TEMPORARY CONCRETE AND MORTAR WASHOUT FACILITY (BY CONCRETE CONTRACTOR)
- FINE GRADE, FERTILIZE, AND SEED. INSTALL DS75 EROSION CONTROL BLANKET WITH 6" BIO-STAKES AS MANUFACTURED BY NORTH AMERICAN GREEN. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS. *COORDINATE LIMITS OF BLANKET INSTALLATION WITH LANDSCAPE PLANS.
- STABILIZED CONSTRUCTION ENTRANCE

NOTE: METAL PINS AND STAPLES ARE PROHIBITED



SWPPP NOTES:

A. ALL DISTURBED GREEN SPACES ON THE SITE SHALL BE RESTORED ACCORDING TO THE SEED BED PREPARATION SPECIFICATIONS BELOW AND BLANKETED OR MATTED AS SHOWN ON THE PLANS.

B. TEMPORARY OR PERMANENT STABILIZATION SHALL OCCUR IMMEDIATELY WHENEVER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE. TEMPORARY STABILIZATION SHALL CONSIST OF THE INSTALLATION OF TEMPORARY SEEDING.

C. CONTRACTOR TO INSTALL TEMPORARY CONSTRUCTION ENTRANCES AS NECESSARY TO EXCAVATE AREAS AND HAUL SOILS ON-SITE. TRACKING OF DEBRIS ON SITE WILL NOT BE TOLERATED. ANY DEBRIS LEFT OUTSIDE OF THE PROJECT LIMITS MUST BE CLEANED IMMEDIATELY.

D. EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MATS SHALL BE INSTALLED USING 6" BIO-STAKES AS MANUFACTURED BY NORTH AMERICAN GREEN. METAL STAKES AND STAPLES ARE PROHIBITED.

E. CONTRACTOR SHALL PROVIDE ALL NECESSARY MAINTENANCE FOR THE SEDIMENT AND EROSION CONTROL MEASURES FOR THE DURATION OF THE PROJECT.

F. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL STORMWATER POLLUTION PREVENTION PLAN (SWPPP) INSPECTIONS, INSPECTION REPORTS, CORRECTIVE ACTION FORMS, SWPPP AMENDMENT LOGS, SUBCONTRACTOR CERTIFICATIONS/AGREEMENTS, GRADING AND STABILIZATION ACTIVITIES LOGS, SWPPP TRAINING LOGS, AND DELEGATION OF AUTHORITY FORMS FOR THE DURATION OF THE PROJECT.

G. CONTRACTOR SHALL PROVIDE COPIES OF ALL SWPPP REPORTS, FORMS, AND LOGS TO THE WT GROUP ONCE THE SITE HAS BEEN STABILIZED. THE CONTRACTOR SHALL MAINTAIN THESE DOCUMENTS FOR A PERIOD OF 3 YEARS FROM THE FINAL STABILIZATION OF THE SITE.

H. FOLLOWING THE REMOVAL OF THE SILT FENCE, THE CONTRACTOR SHALL RESTORE THE THE SILT FENCE TRENCH WITH SOD.

I. CONTRACTOR SHALL INITIATE STABILIZATION OF ALL DISTURBED AREAS WITHIN ONE CALENDAR DAY.

J. SEED BED PREPARATION:

J.A. ALL STONES, ROCKS, DEBRIS LARGER THAN 1" IN DIAMETER SHALL BE REMOVED.

J.B. DISK OR TILL TOPSOIL TO A DEPTH OF 3" AND REDUCE ALL SOIL PARTICLES TO NO LARGER THAN 2". THE SURFACE SHALL BE FREE OF WEEDS, STONES, ROCKS, STICKS, GULLIES, CLODS, AND DEBRIS.

J.C. THE AREA SHALL BE FINE GRADED.

J.D. THE SEED SHALL BE PLACED INTO THE SOIL WITH A MACHINE THAT MECHANICALLY PLACES THE SEED IN DIRECT CONTACT WITH THE SOIL AND COVERS THE SEED WITH THE SOIL.

J.E. BROADCAST AND HYDROSEED WILL NOT BE ALLOWED.

J.F. SEEDED AREAS SHALL BE COVERED WITH THE EROSION BLANKET RIGHT AFTER THE SEED HAS BEEN SOWN.

J.G. ANY SOIL AMENDMENTS NEEDED TO ACHIEVE A 90% HEALTHY STAND OF VEGETATION WILL BE ADDED TO THE SOIL AT NO EXTRA CHARGE TO THE OWNER. THE STAND OF VEGETATION WILL NEED TO BE ACCEPTED BY THE ENGINEER.

J.H. THE SEED MIX SHALL BE KENTUCKY BLUEGRASS 100LBS/ACRE, REVENGE PERENNIAL RYEGRASS 60 LBS/ACRE, ANNUAL RYE 40 LBS/ACRE AND CREEPING RED FESCUE 40 LBS/ACRE TOTAL.

NOTE: THE PARK DISTRICT SHALL BE RESPONSIBLE FOR ALL RESTORATION AND EROSION CONTROL.

NORTH

SCALE: 1" = 20'

0 0 5 10 20 40

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Structural | Mechanical/Electrical/Plumbing
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OFFICE: 8152597352

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

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drawn:	VE

sheet title: STORMWATER POLLUTION PREVENTION PLAN - BASE BID

sheet number: C-6.0

SWPPP LEGEND

- EXISTING SPOT GRADE
- EXISTING CONTOUR LINE
- EXISTING CONTOURS PER RECORDS
- OVERLAND FLOW ARROW
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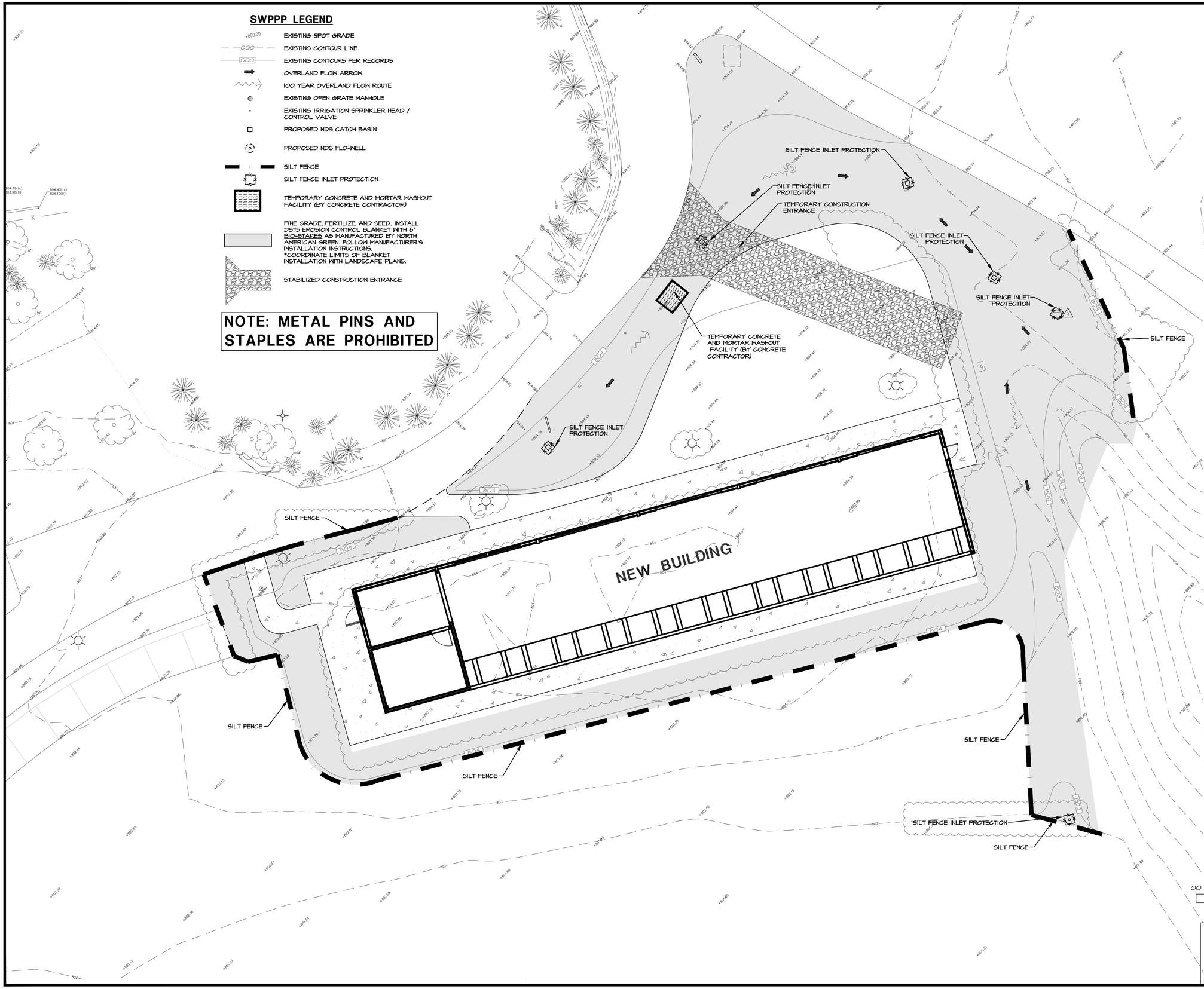

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BRIDGES OF POPLAR CREEK DRIVING RANGE
1400 POPLAR CREEK DRIVE
HOFFMAN ESTATES, IL 60169

project no.	2002487D
date:	03.19.2021
revision 1:	05.30.2021
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checked:	TOA
drawn:	VE

sheet title: STORMWATER POLLUTION PREVENTION PLAN ALTERNATE BID #1

sheet number: C-6.1

GENERAL NOTES

1. 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.
2. 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.
3. 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.
4. WORK WILL BE COORDINATED WITH ALL TRADES IN ORDER TO AVOID INTERFERENCE, AND AVOID OMISSIONS.
5. ALL MATERIALS USED WILL BE NEW AND BEAR U.L. LABELS WHERE REQUIRED AND MEET APPROPRIATE N.E.M.A. STANDARDS.
6. LAYOUT ALL PARTITIONS BEFORE BEGINNING CONSTRUCTION TO PREVENT ERRORS BY DISCREPANCY. ALL DRYWALL PARTITIONS WILL BE INSTALLED AS NOTED ON THE DRAWINGS.
7. EACH SUBCONTRACTOR WILL AMEND AND MAKE GOOD AT HIS OWN COST, ANY DEFECTS OR OTHER FAULTS IN HIS WORKMANSHIP AND/OR HIS SUPPLIED MATERIALS.
8. ALL CONTRACTORS WILL GUARANTEE ALL LABOR AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF OCCUPANCY.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. LIENS: ALL SUBCONTRACTORS AND THE GENERAL CONTRACTOR WILL DELIVER TO THE OWNER, A COMPLETE RELEASE OF ALL CLAIMS ARISING OUT OF THIS CONTRACT.
18. 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.
19. 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 COUNTRY CLUB

BRIDGES OF POPLAR CREEK DRIVING RANGE

1400 POPLAR CREEK DRIVE
HOFFMAN ESTATES, IL 60169

DRAWING INDEX

GENERAL

G001	COVER SHEET
G002	CODE INFORMATION & EGRESS PLAN

ARCHITECTURAL

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A121	REFLECTED CEILING PLAN
A131	ROOF PLAN
A141	SLAB PLAN
A201	EXTERIOR ELEVATIONS
A501	INTERIOR ELEVATIONS
A701	SCHEDULES AND ELEVATIONS

MECHANICAL

M1.1	MECHANICAL PLAN
M2.1	MECHANICAL SITE PLAN
M3.1	MECHANICAL DETAILS

ELECTRICAL

E1.1	ELECTRICAL PLANS
E2.1	RISER DIAGRAM & PANEL SCHEDULES
E2.2	ELECTRICAL SPECIFICATION, SYMBOLS AND NOTES
E2.3	LIGHTING FIXTURE SCHEDULE
E2.4	SNOW MELT DETAILS
SE1.1	SITE ELECTRICAL PLAN
1 MUSCO	PHOTOMETRIC PLANS (FOR REFERENCE ONLY)

NOTE:
CIVIL DRAWINGS 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

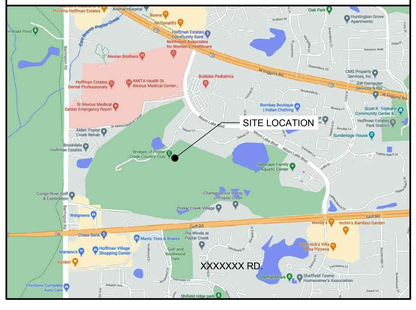
CIVIL ENGINEER

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: 1 4,284 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 Ill.ADM. CODE 400).

STATE OF ILLINOIS
CHRISTIAN KALISCHEFSKI
12930
LICENSED ARCHITECT

DATE: 04-07-2021

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

SCOPE OF WORK

1 THIS IS A NEW GOLF DRIVING RANGE SHELTER TO INCLUDE A NEW 4,284 SQ. FT. BUILDING.

API ARCHITECTS
2675 PRATUM AVENUE
HOFFMAN ESTATES, IL 60192
OFFICE: 312.263.1926

STATE OF ILLINOIS
CHRISTIAN KALISCHEFSKI
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LICENSED ARCHITECT
Signed: 4/7/2021 Expires: November 30, 2022

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

project no.	2002487D
date:	03.19.2021 BID
revision 1:	04.07.2021
revision 2:	
revision 3:	
revision 4:	
checked:	CW
drawn:	SC, RS

sheet title: **COVER SHEET**

sheet number: **G001**

Project & Code Information — 2002487D - Bridges of Poplar Creek - Hoffman Estates, I

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

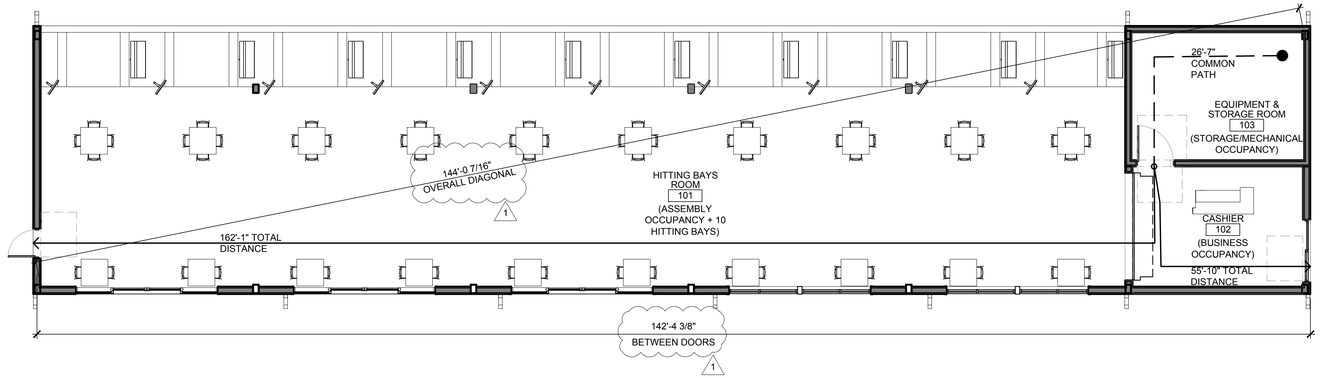
CODES

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

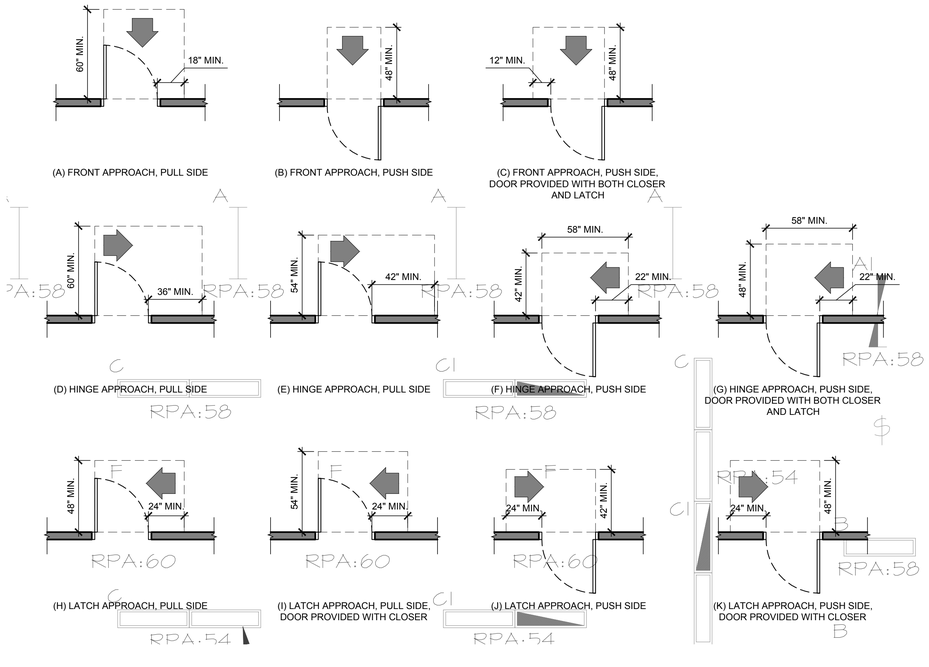
CODE	SECTION	ITEM	REQUIRED or ALLOWED	PROVIDED
IBC 2015	302.1	Use & Occupancy Classification	Group A-5	Group A-5
IBC 2015	903.2	Automatic Sprinkler System	Group A-5 sprinkler only required in retail and concessions areas over 1000 sf = N/A	N/A - no sprinkler provided
IBC 2015	602	Construction Type:	VB	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)	4,284 SF (1)
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 (1)
IBC 2015	Table 1004.1.2	Occupant Load	**Assembly** (without fixed seats, unconcentrated) = 15 sf net	2707 SF / 15 SF = 180.47 people
			Business = 100 sf gross	255 SF / 100 SF = 2.55 people
			Storage/Mech = 300 sf gross	275 SF / 300 SF = 0.92 people
			Individual golf stations = 10	10 people
			TOTAL	193.94 = 194 people
IBC 2015	1005.3.2	Minimum Egress Width	Occupants 194 x .2" = 38.8"	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'-0" / 2 = 72'-0" min)	142'-4"
IBC 2015	Table 1017.2	Exit Access Travel Distance	Group A, no sprinkler = 200' Max	162'-1" max

EGRESS PLAN LEGEND

- COMMON EGRESS PATH
- TOTAL DISTANCE



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



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

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CODE INFORMATION & EGRESS PLAN

sheet number:
G002

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. PRESSURE 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 SAPWOOD.
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" 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 - ¾" 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 AZ55 (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 TOPCOAT OF 70S 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
- XX'-x XX" — CLEAR FLOOR AREA PER ACCESSIBILITY CODES
- (X) DOOR TAG, SEE DOOR SCHEDULE
- (X) WINDOW TAG, SEE WINDOW SCHEDULE
- (X) 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.

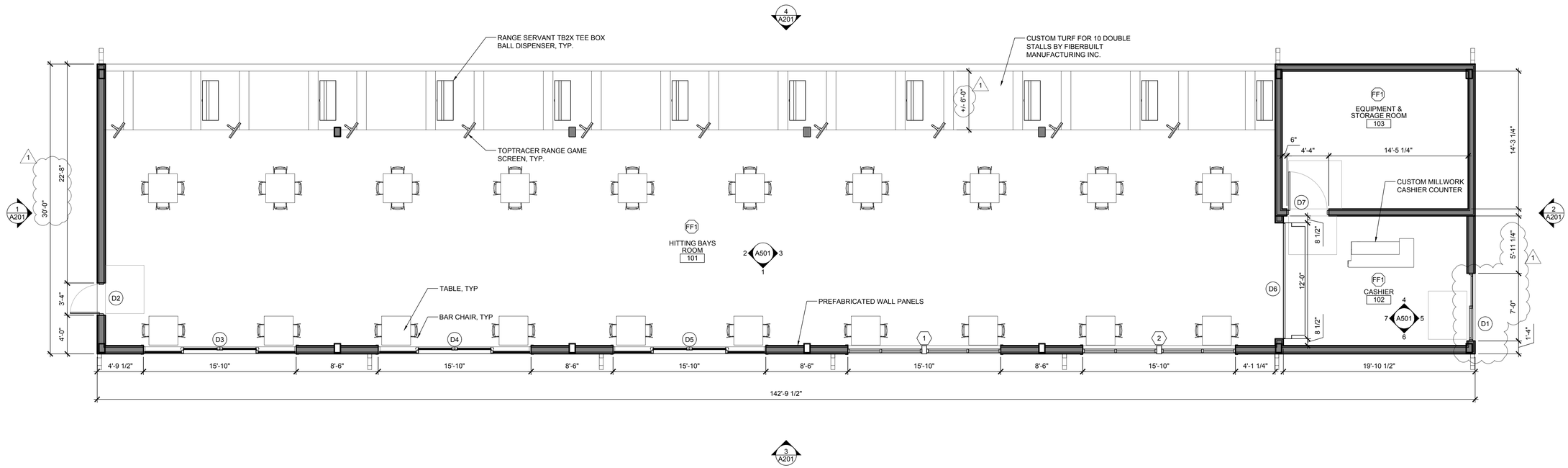
F. FIRE EXTINGUISHERS ARE SUPPLIED AND INSTALLED BY THE G.C. QUANTITIES AND LOCATIONS TO BE COORDINATED W/ THE LOCAL FIRE DEPARTMENT.

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.



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

N

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1400 POPLAR CREEK DRIVE
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sheet title: **FLOOR PLAN**

sheet number: **A101**

REFLECTED CEILING PLAN LEGEND

- x'-xx" — INDICATES CEILING HEIGHT
- CEILING FAN
- EMERGENCY EXIT LIGHT, SEE ELECTRICAL DRAWINGS
- CEILING LIGHTS, SEE ELECTRICAL DRAWINGS
- RADIANT HEATERS, SEE ELECTRICAL DRAWINGS

SEE ELECTRICAL AND MECHANICAL SHEETS FOR LIGHTING AND HEATING LOCATIONS AND SPECIFICATIONS

REFLECTED CEILING 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. 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.

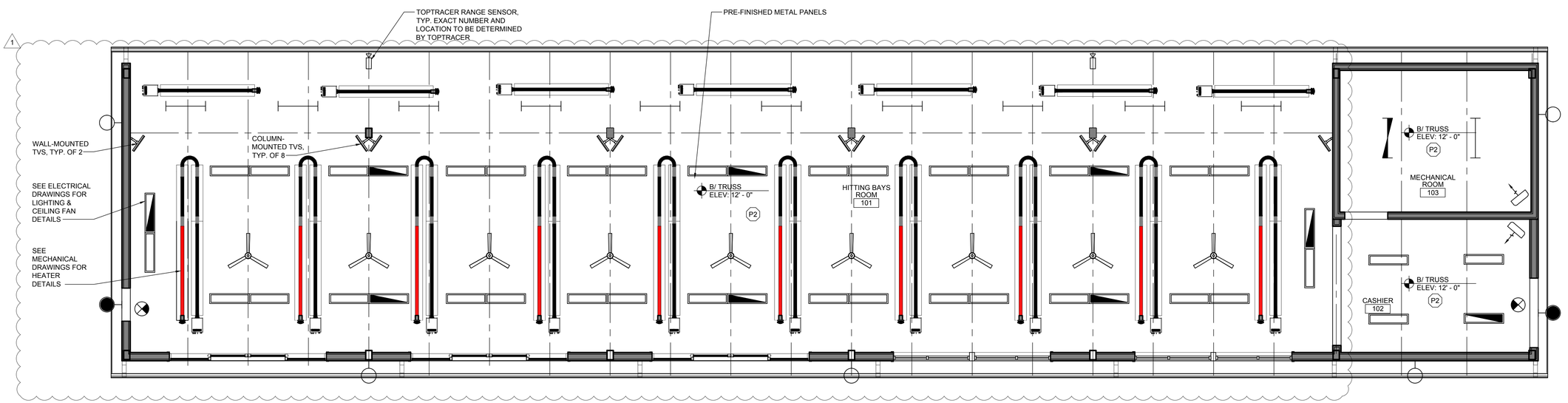
J. PAINT ALL EXPOSED DUCT WORK, PIPING, CONDUIT, AS INDICATED ON THE REFLECTED CEILING PLANS, FLOOR PLANS, AND ELEVATIONS.

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"

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sheet number: **A121**

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

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

USE 30# ROOFING FELT UNDER CERTAINTEED 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.

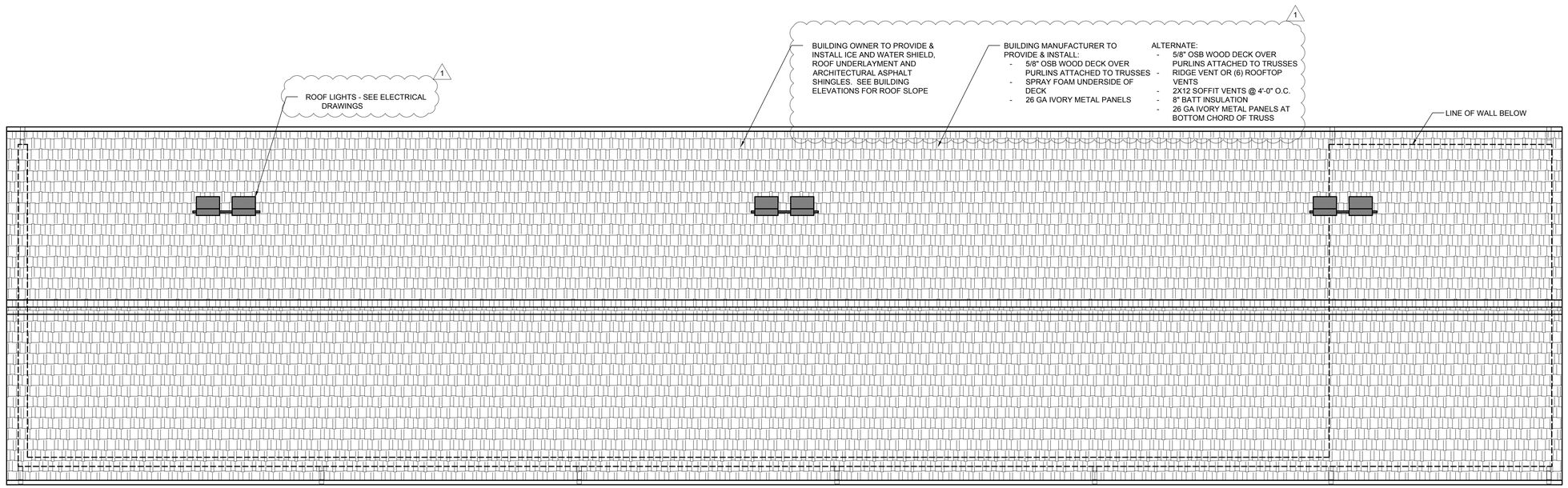
C. PROTECT ALL MATERIAL FROM SATURATION OF WATER PRIOR TO FINAL INSTALLATION OF ROOF MEMBRANE.

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
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N

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sheet number: **A131**

REINFORCED CONCRETE GENERAL NOTES

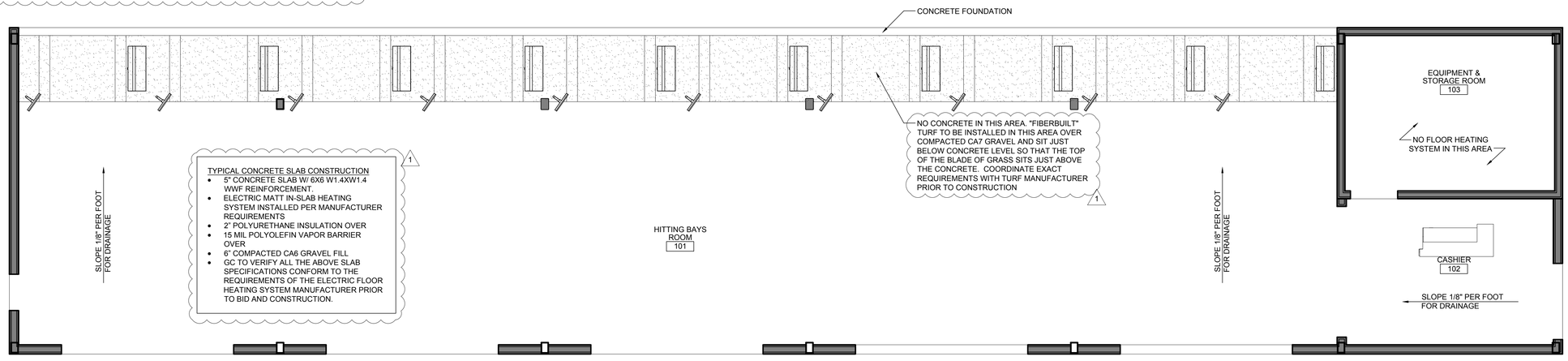
REINFORCED CONCRETE NOTES

1. 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
2. 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.
3. ALL WELDED WIRE FABRIC SHALL CONFORM TO THE STANDARDS OF ASTM A185.
4. 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.
5. 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.
6. ALL WELDED WIRE FABRIC SHALL BE LAPPED TWO (2) FULL MESH PANELS AND TIED SECURELY.
7. WHERE REQUIRED, DOWELS SHALL MATCH THE SIZE AND NUMBER OF MAIN REINFORCING, UNLESS NOTED OTHERWISE.
8. 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.)
9. ALL CONSTRUCTION JOINTS SHALL BE WIRE BRUSHED, CLEANED AND MOISTENED IMMEDIATELY PRIOR TO PLACING NEW CONCRETE.
10. 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.
11. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
12. SEE ARCHITECTURAL, HVAC, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WALL/SLAB OPENINGS.
13. PROVIDE APPROVED CURING COMPOUND AND SEALER FOR THE TOP SURFACE OF ALL SLAB WORK, UNLESS NOTED OTHERWISE.
14. 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.
15. 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
16. CUTTING AND BORING:
    A. CONCRETE CUTTING AND BORING METHODS ARE "WAYS AND MEANS" OF CONSTRUCTION AND SHALL BE DETERMINED BY THE CONTRACTOR.

1

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"

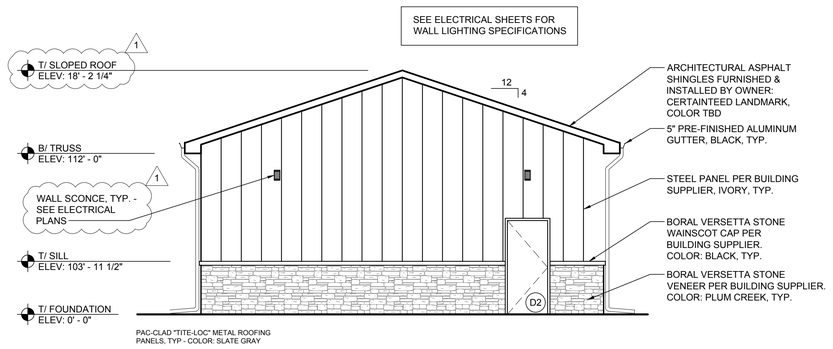
API ARCHITECTS
2675 PRATUM AVENUE
HOFFMAN ESTATES, IL 60192
OFFICE: 312.263.1926

CHRISTIAN KALISCHEFSKI # 12930
STATE OF ILLINOIS LICENSED ARCHITECT
Signed: 4.7.2021 Expires: November 30, 2022

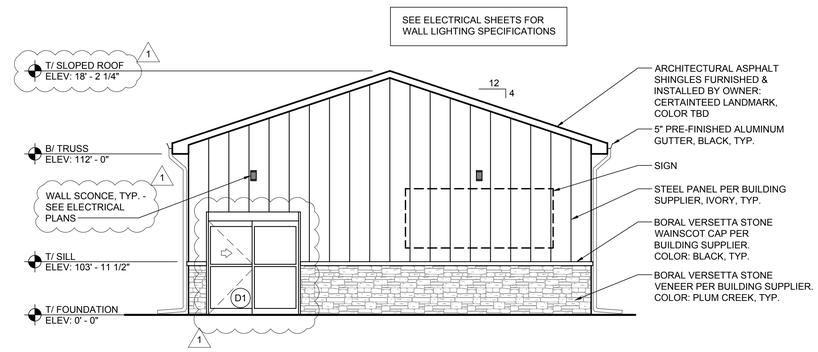
BRIDGES OF POPLAR CREEK DRIVING RANGE
1400 POPLAR CREEK DRIVE
HOFFMAN ESTATES, IL 60169

project no.	2002487D
date:	03.19.2021 BID
revision 1:	04.07.2021
revision 2:	
revision 3:	
revision 4:	
checked:	CW
drawn:	SC, RS

sheet title: **SLAB PLAN**
sheet number: **A141**



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



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

ELEVATION GENERAL NOTES

A. ALL METAL COMPONENTS TO BE CORROSION RESISTANT.

B. ALL INSTALLED MATERIALS TO BE COMPATIBLE WITH ONE ANOTHER CAUSING NO DELETERIOUS EFFECTS.

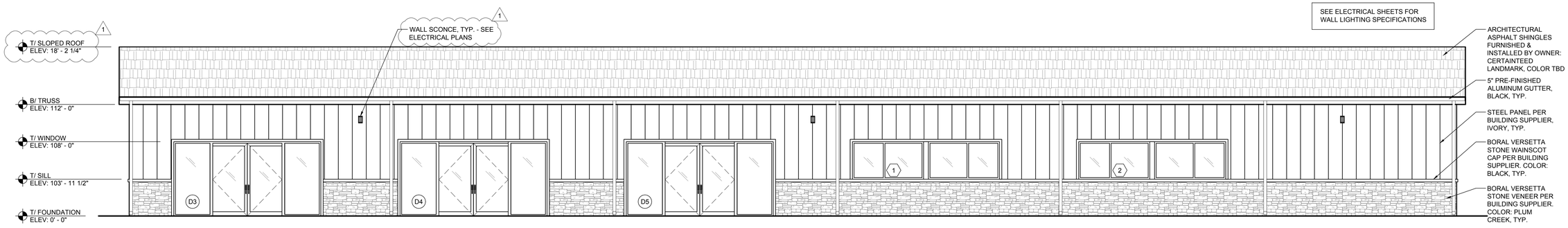
C. PROVIDE WEATHER TIGHT SEAL AROUND ALL PENETRATIONS THROUGH BUILDING ENVELOPE.

ELEVATION LEGEND

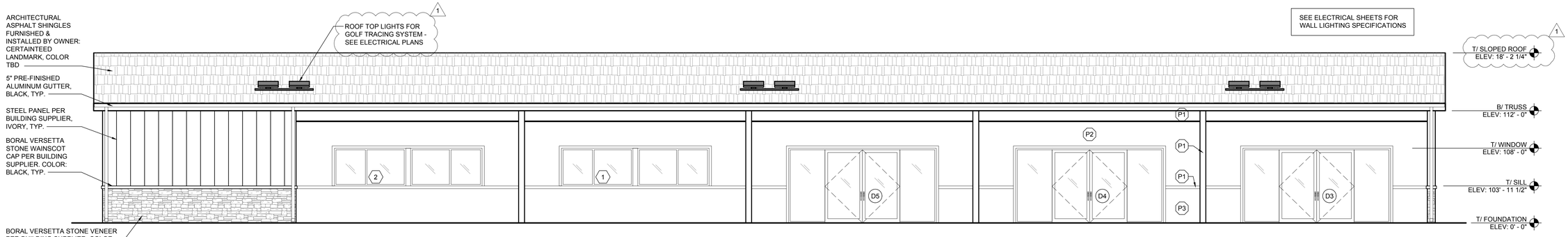
(X) DOOR - SEE DOOR SCHEDULE ON SHEET A701

(X) FINISH - SEE FINISH SCHEDULE ON SHEET A701

(X) WINDOW - SEE WINDOW SCHEDULE ON SHEET A701



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



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

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Signature Expires: November 30, 2020

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

project no. 2002487D
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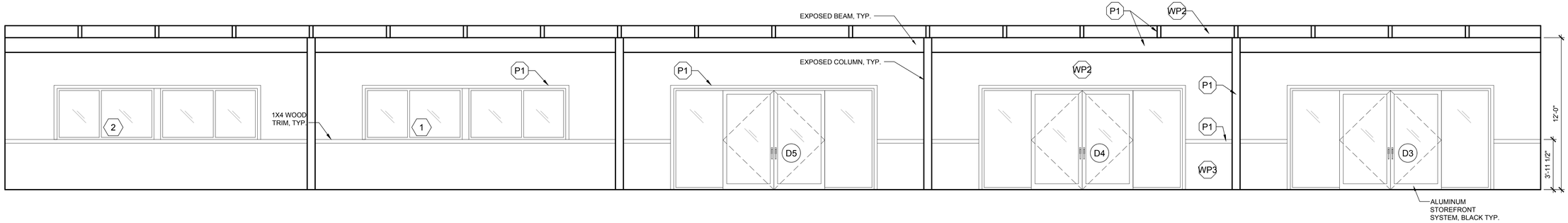
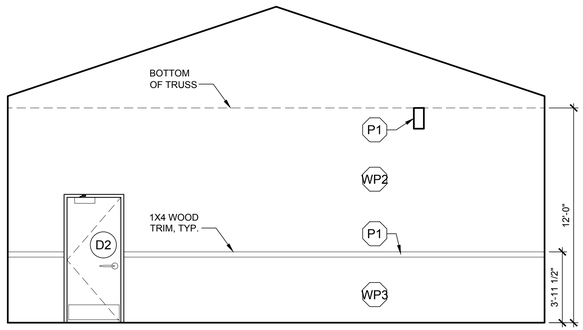
drawn: SC

sheet title: EXTERIOR ELEVATIONS

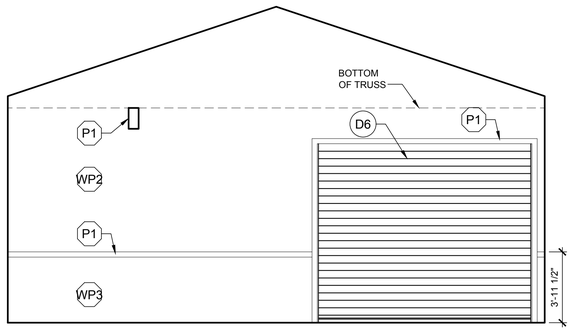
sheet number: A201



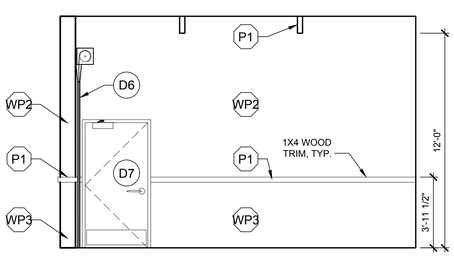
1 HITTING BAYS ROOM ELEVATION
SCALE: 1/4" = 1'-0"



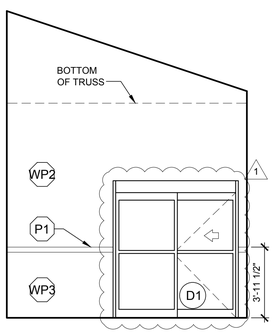
2 HITTING BAYS ROOM ELEVATION
SCALE: 1/4" = 1'-0"



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



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



5 CASHIER ELEVATION
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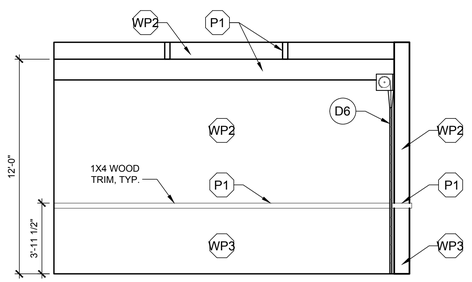
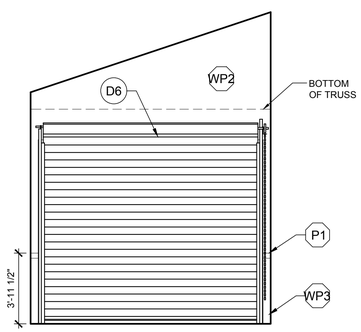


6 CASHIER ELEVATION
SCALE: 1/4" = 1'-0"



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

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OFFICE: 312.263.1926

STATE OF ILLINOIS
CHRISTIAN KALISCHEFSKI
12930
LICENSED ARCHITECT
Signed: 4.7.2021 Expires: November 30, 2022

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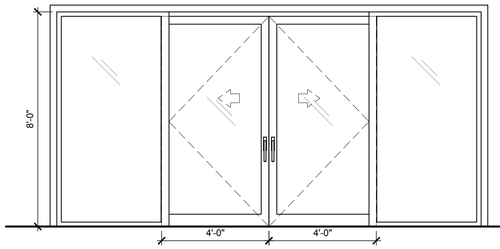
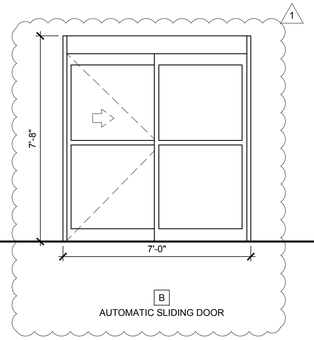
drawn:	SC, RS

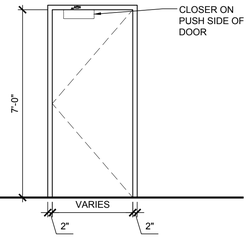
sheet title: **INTERIOR ELEVATIONS**
sheet number: **A501**



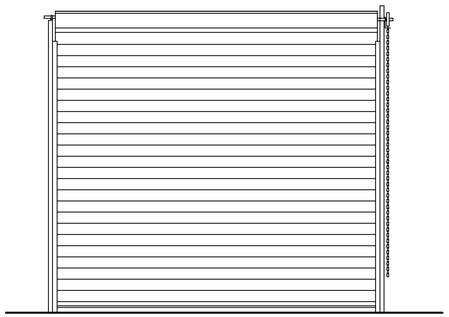
A
EXTERIOR SLIDING DOOR



B
AUTOMATIC SLIDING DOOR

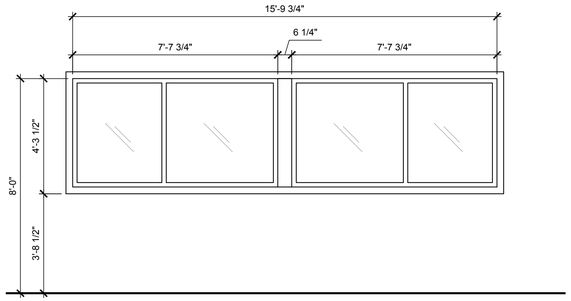


C
HOLLOW METAL

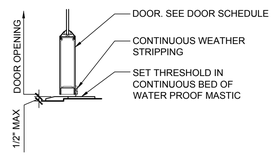


D
SECURITY ROLLING GRILLE

1 DOOR ELEVATIONS
SCALE: 3/8" = 1'-0"



2 WINDOW ELEVATIONS
SCALE: 3/8" = 1'-0"



3 DOOR THRESHOLD
SCALE: 1 1/2" = 1'-0"

DOOR SCHEDULE (X)

TAG	ROOM NAME	DOOR SIZE W X H	FRAME SIZE	DOOR TYPE	MATERIAL DOOR / FRAME	THRESHOLD DETAIL	MANUFACTURER	HARDWARE	FIRE RATING	COMMENTS
D1	CASHIER ENTRY	7'-8" x 7'-0"	-	B	ALUM	-	DURA-GLIDE	-	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

- 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.

ADDITIONAL DOOR SPECIFICATIONS

SLIDING DOORS (INCLUDES THEIR WINDOWS ON SIDES)
- 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

AUTOMATIC SLIDING ENTRY DOOR
- SPECIAL FINISH: BLACK
- ROCKER SWITCH
- (2) SU-100s / STANGUARD SENSOR
- SINGLE POINT BOTTOM RAIL DEADLOCK
- WEATHER STRIPPING
- THRESHOLD (ADA COMPLIANT)

1

WINDOW SCHEDULE (X)

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 (X)

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 - VERIFY FINAL COLOR SELECTION WITH OWNER	-	-	TRUSSES, TRIM, H.M. DOORS
WP2	PREFINISHED METAL PANEL	PRE-FAB BUILDING MFR	IVORY - VERIFY FINAL COLOR SELECTION WITH OWNER	-	-	GENERAL INTERIOR - UPPER 1/2 OF WALLS, UNDERSIDE OF ROOF DECK
WP3	PREFINISHED METAL PANEL	PRE-FAB BUILDING MFR	TAN - VERIFY FINAL COLOR SELECTION WITH OWNER	-	-	GENERAL INTERIOR - LOWER 1/2 OF WALLS

1

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HOFFMAN ESTATES, IL 60192
OFFICE - 312.253.1302

STATE OF ILLINOIS
CHRISTIAN KALISCHEFSKI
12500
LICENSED ARCHITECT
Signed: 4/7/2021 Expires: November 30, 2022

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

project no. 2002487D
date: 03.19.2021 BID
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sheet title: SCHEDULES AND ELEVATIONS
sheet number: A701

INFRARED HEATER (INDIRECT FIRED GAS) SCHEDULE

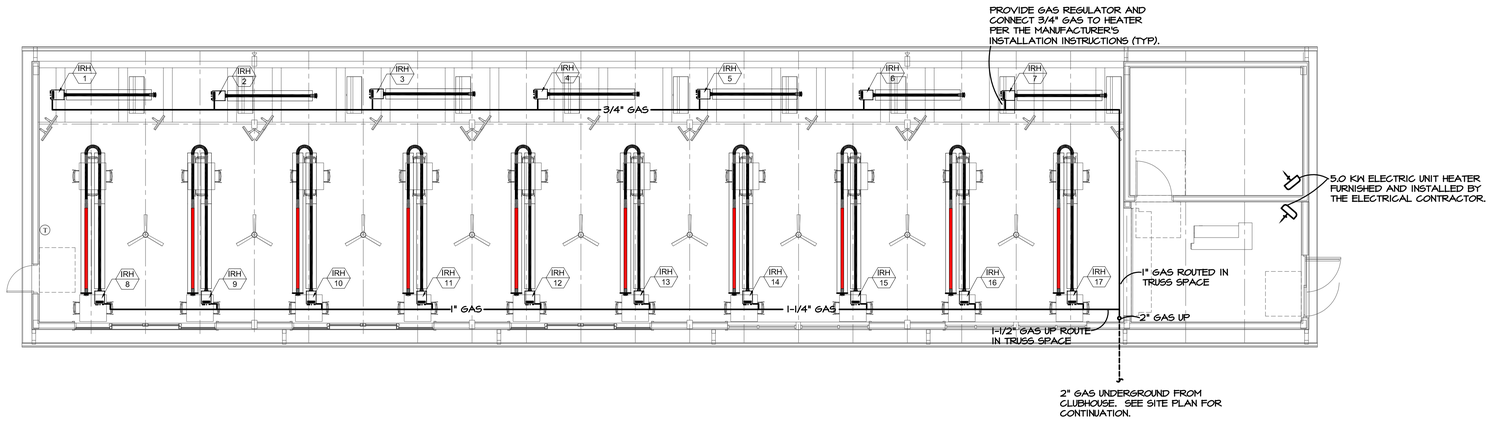
EQUIPMENT NUMBER	DESCRIPTION	LOCATION / AREA SERVED	NG INLET PRESSURE (W.C.)	INPUT (MBH)	OUTPUT TOTAL/MBH)	FAN MOTOR MOTOR (V/Ph/Hz)	MOUNTING HEIGHT (FT)	COMBUSTION TUBE LENGTH (FT)	VENT CONNECTION (INCH)	WEIGHT INCL. MOTOR (LB)	BASE OF DESIGN	REMARKS
IRH-1-7	GAS FIRED INFRARED HEATER	RANGE	5-12"	40	40	120/1/60	10'-6"	12		72#	ROBER"S 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.G.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"

MARK O. VENTRELLA
062-05025
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
SIGNED 06/07/21
EXPIRES 11/30/21

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

project no.	200248TD
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revision 4:	
checked:	MCV
drawn:	KM, RC, DM

sheet title:
MECHANICAL PLAN

sheet number:
M1.1

APPROXIMATE LOCATION OF EXISTING GAS METER TO REMAIN. CONTRACTOR SHALL COORDINATE NEW GAS CAPACITIES, PRESSURE, AND MANIFOLD REQUIREMENTS WITH THE LOCAL GAS COMPANY FOR ADDING ADDITIONAL CAPACITY TO THE EXISTING BUILDING LOAD. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL NEW DOWNSTREAM PIPING INCLUDING ALL VALVES, REGULATORS, SUPPORTS, HANGERS AND ANY ASSOCIATED APPARATUS. VERIFY ALL PRESSURE REQUIREMENTS WITH MANUFACTURER'S EQUIPMENT SPECIFICATIONS. 1520 MBH NEW GAS LOAD.

NEW 2" GAS LINE AT 2# PRESSURE. ROUTE UNDERGROUND TO NEW DRIVING RANGE ENCLOSURE AND THREE (3) FIRE PITS. GAS PIPING SIZED AT 2# PRESSURE AND 400' T.E.L.

PROVIDE GAS REGULATOR, GAS SHUT OFF AND VALVED OUTLET AND CONNECT 3/4" GAS (LOW PRESSURE) TO FIRE PITS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS (TYP 3).

1" GAS UNDERGROUND TO THREE (3) FIRE PITS

SEE MECHANICAL PLAN SHEET MI.1 FOR CONTINUATION.

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

MARK D. VENTRELL
062-050251
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS

SIGNED 04/07/21
EXPIRES 11/30/21

WT Group
Engineering • Design • Consulting

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Structural | Mechanical/Electrical/Plumbing
Civil | Land Survey | Telecommunication | Aquatic
Accessibility Consulting | Design & Program Management
Engineering with Precision, Pace & Passion.
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BRIDGES OF POPLAR CREEK DRIVING RANGE
1400 POPLAR CREEK DRIVE
HOFFMAN ESTATES, IL 60169

project no.	20024BTD
date:	03.19.2021 BID
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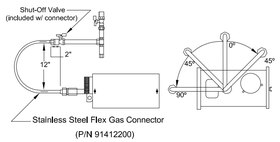
sheet title: MECHANICAL SITE PLAN

sheet number: M2.1

GAS CONNECTION



⚠ CAUTION

Hold gas line securely with pipe wrench when attaching the flex gas connector.

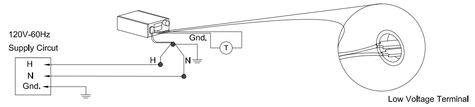
Failure to follow these instructions will result in property damage.

Gas pipe work must be installed and tested in accordance with United States ANSIZ223.1/NFPA54 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.

LOW VOLTAGE TIMER WIRING



⚠ WARNING

Electrical Shock Hazard

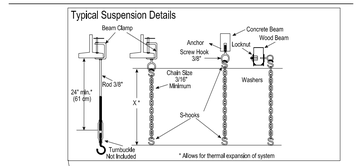
Disconnect electrical power before servicing.

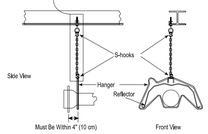
Replace door before operating.

Failure to follow these instructions will result in death or electrical shock.

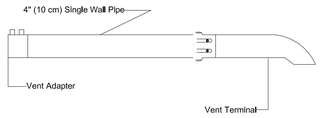
United States: refer to *National Electric Code®* ANSI/NFPA-70-latest version
Canada: refer to *Canadian Electric Code®* CSA C22.1 Part I-latest version.

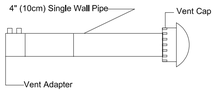
Typical Suspension Details



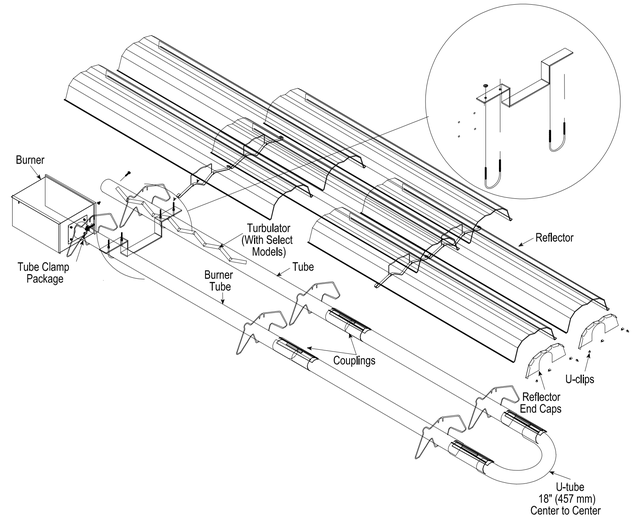


HORIZONTAL VENTING CONFIGURATIONS





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.



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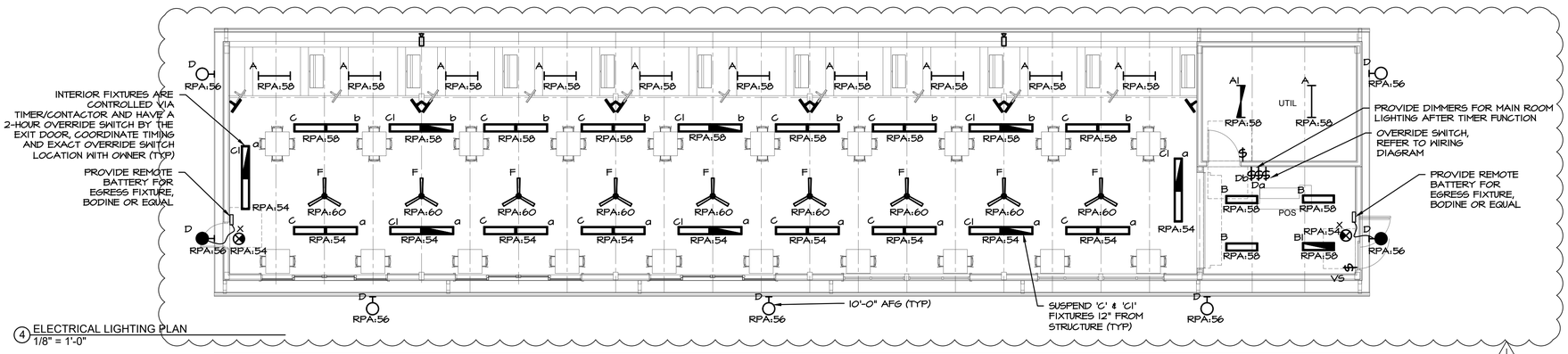
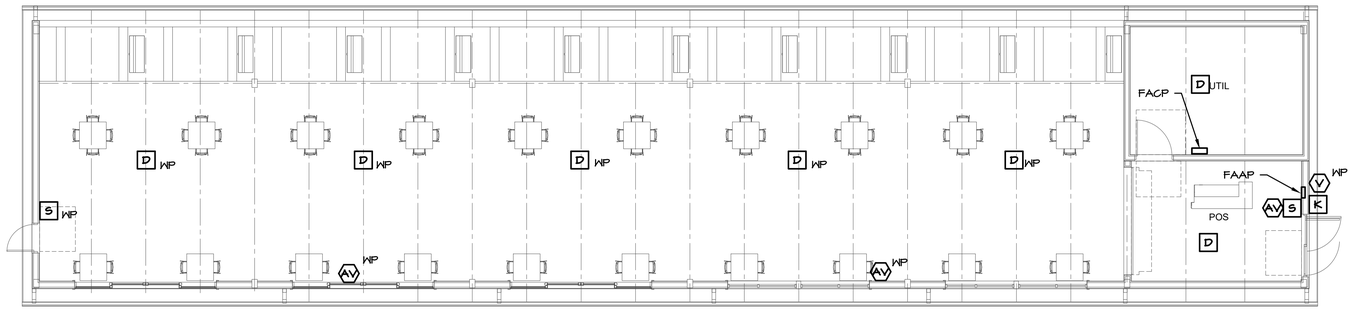
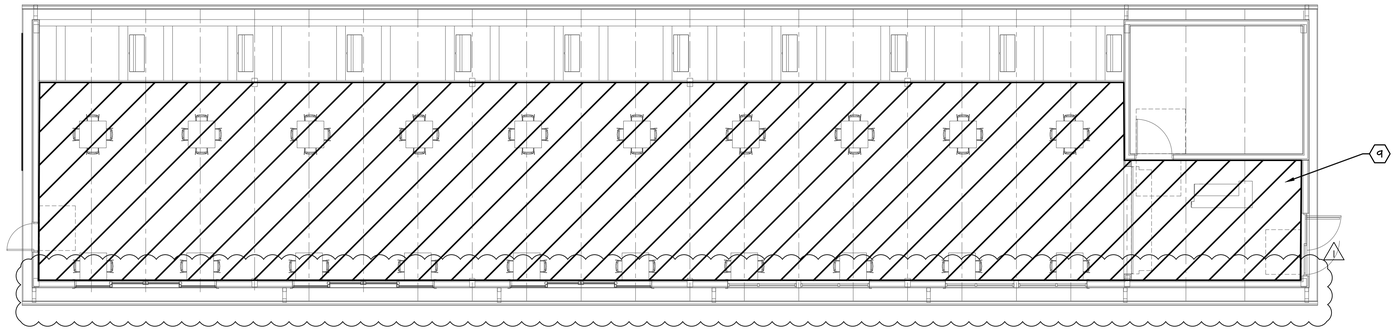


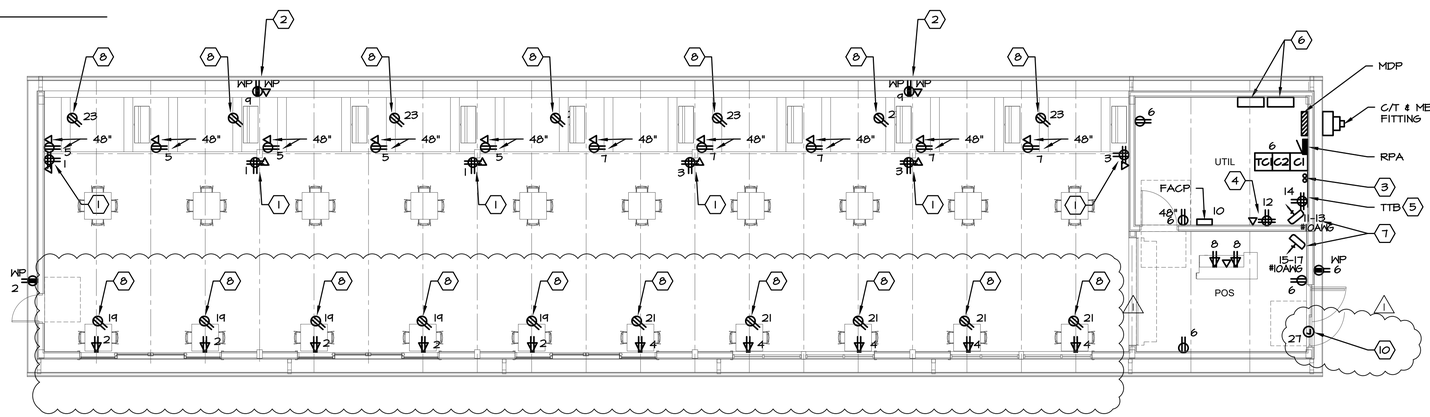
4 ELECTRICAL LIGHTING PLAN
1/8" = 1'-0"



3 FIRE ALARM PLAN
1/8" = 1'-0"



2 ELECTRIC SNOW MELT PLAN
1/8" = 1'-0"



1 ELECTRICAL POWER PLAN
1/8" = 1'-0"

GENERAL NOTES

1. 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

1. POWER AND DATA OUTLET FOR TV DISPLAY. VERIFY EXACT MOUNTING HEIGHT IN FIELD.
2. POWER AND DATA OUTLETS FOR GOLF BALL TRACKING SENSOR. VERIFY EXACT LOCATION AND HEIGHT IN FIELD.
3. INCOMING COMMUNICATION CONDUITS FROM EXISTING CLUBHOUSE. REFERENCE SITE ELECTRICAL PLAN, SHEET SE1.1 FOR EXACT SPECIFICATION AND ROUTING.
4. POWER AND DATA FOR TOPTRACER RANGE SERVER. VERIFY FINAL LOCATION IN FIELD.
5. PROVIDE 4'W x 8'H 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.
6. 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.
7. ELECTRICAL UNIT HEATER 5.0 KW, 208V, SINGLE PHASE WITH BUILD IN THERMOSTAT AND DISCONNECT SWITCH. MARKEL #F2F5105N-CAI-T5100-DCS202/510-A5105.
8. POWER FOR INFRARED RADIANT HEAT BURNER. PROVIDE CEILING MOUNTED DUPLEX RECEPTACLE. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
9. PROVIDE ELECTRIC SNOW MELT SYSTEM (APPROX 3,000 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 QUAZITE JUNCTION BOXES AND ROOF MOUNTED SNOW MELTING SYSTEM AERIAL SENSOR; WIRE BACK TO CONTROLLER (3#18 AWG) IN DEDICATED CONDUIT.
10. POWER FOR SLIDING DOOR

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400 AMP BUS — MAIN DISTRIBUTION PANEL "MDP" — 400A/3P M.C.B. MAIN BREAKER

120 / 208 V, 3 PHASE, 4 WIRE — 42,000 A.I.C. MINIMUM

CKT	POLE	TRIP	KVA	WIRE	GND	COND	HP	AMPS	DESCRIPTION
1	3	200	57.50	4#3/0	#6	2-1/2"		159.0	SNOW MELT SYSTEM
2	3	200	57.50	4#3/0	#6	2-1/2"		159.0	SNOW MELT SYSTEM
3	3	200	-	4#3/0	#6	2-1/2"		-	PANEL RPA
4	3	60	-	4#6	#6	1"			TVSS (SURGE PROTECTION DEVICE)
5	3								BUSSED SPACE
6	3								BUSSED SPACE
7	3								BUSSED SPACE
8	3								BUSSED SPACE

TOTAL CONNECTED LOAD - TOTAL CONNECTED AMPS -

PANEL RPA — VOLTS 120/208 — PHASE 3Ø4W

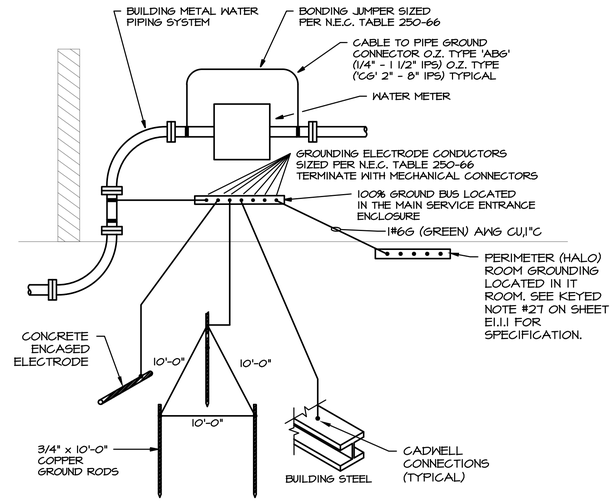
AMPS 225 — MAIN M.L.O. — A.I.C. 10,000

LOCATION UTILITY ROOM — MOUNTING SURFACE

CIRCUIT	POLE	TRIP	DESCRIPTION	KVA	KVA	DESCRIPTION	TRIP	POLE	CIRCUIT
• 1	1	20	TV DISPLAYS	1.08	1.08	GENERAL OUTLETS	20	1	2 •
• 3	1	20	TV DISPLAYS	1.08	1.08	GENERAL OUTLETS	20	1	4 •
• 5	1	20	GOLF DISPLAY	0.50	0.90	GENERAL OUTLETS	20	1	6
• 7	1	20	GOLF DISPLAY	0.50	0.36	RECEPTION OUTLETS	20	1	8
9	1	20	GOLF TRACKING SENSORS	0.20	0.20	FACP	20	1	10
11	2		ELECTRIC UNIT HEATER - UTILITY RM	5.00	1.00	GOLF SERVER	20	1	12
13		30			0.36	TTB	20	1	14
15	2		ELECTRIC UNIT HEATER - LOBBY RM	5.00		SPARE	20	1	16
17		30				SPARE	20	1	18
19	1	20	RADIANT HEATERS	0.50		SPARE	20	1	20
21	1	20	RADIANT HEATERS	0.50		SPARE	20	1	22
23	1	20	RADIANT HEATERS	0.70		SPARE	20	1	24
25	1	20	FIRE PIT POWER	0.20		SPARE	20	1	26
27	1	20	POWER DOOR	0.35		SPARE	20	1	28
29	1	20	SPARE			SPARE	20	1	30
31	1	20	SPARE			SPARE	20	1	32
33	1	20	SPARE			SPARE	20	1	34
35	1	20	SPARE			SPARE	20	1	36
37	1	20	SPARE			SPARE	20	1	38
39	1	20	SPARE		3.4	ROOF MOUNTED LIGHTING		2	40
41	1	20	SPARE				30		42
43	1	20	SPARE		4.6	POLE MOUNTED LIGHTING		2	44
45	1	20	SPARE				30		46
47	1	20	SPARE		4.6	POLE MOUNTED LIGHTING		2	48
49	1	20	SPARE				30		50
51	1	20	SPARE		0.25	PHOTOCELL/TIMER	20	1	52
53	1	20	SPARE		1.10	INTERIOR LIGHTING	20	1	54
55	1	20	SPARE		0.58	EXTERIOR LIGHTING	20	1	56
57	1	20	SPARE		1.10	INTERIOR LIGHTING	20	1	58
59	1	20	SPARE		0.27	INTERIOR PADDLE FANS	20	1	60

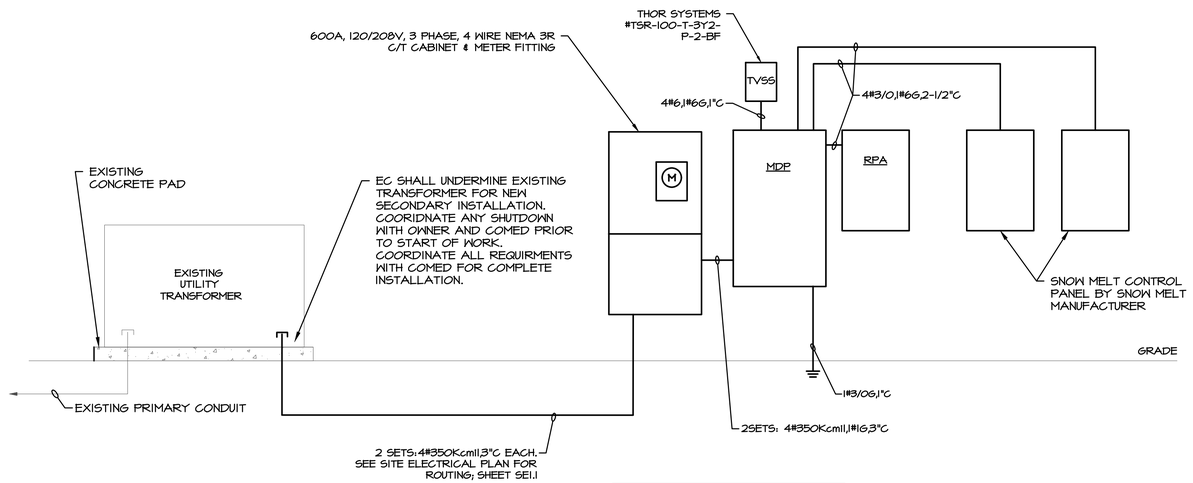
• INDICATES GFCI C/B — TOTAL = 15.26 34.28 = TOTAL

TOTAL KVA = 49.54 — TOTAL AMPS = 137.6



DETAIL - GROUNDING ELECTRODE SYSTEM

NOT TO SCALE



ELECTRICAL RISER DIAGRAM

NO SCALE

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sheet title: RISER DIAGRAM + PANEL SCHEDULES

sheet number: E2.1

FIRE ALARM SYMBOLS

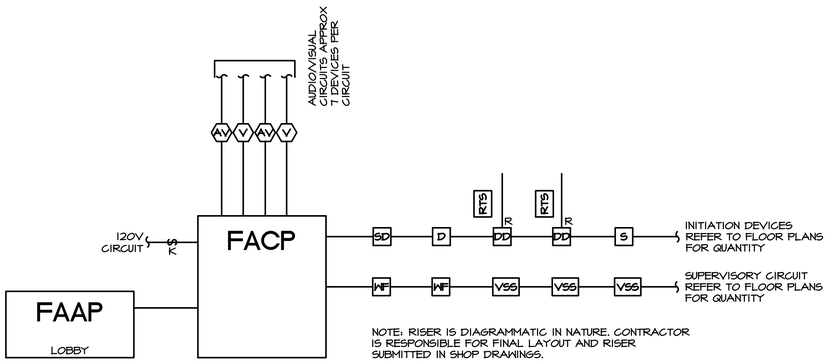
FACP	ADDRESSABLE FIRE ALARM CONTROL PANEL WITH REMOTE 24 HOUR TELEPHONE MONITORING
FAAP	FIRE ALARM ANNUNCIATOR PANEL
S	FIRE ALARM SYSTEM DUAL ACTION PULL STATION (+48"AFF, MOUNT WITHIN 5 FT. OF DOOR) WITH COVER/SOUNDER PLASTIC SHIELD
AV	FIRE ALARM SYSTEM HORN & STROBE LIGHT (AUDIO-VISUAL ALARM, +80"AFF, 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, PULL STATIONS, HORNS, VISUALS, FLOW SWITCHES, TAMPER SWITCHES, AND BELLS). VERIFY AND COORDINATE IN FIELD. FACP SHALL BE CONNECTED TO WIRELESS TRANSMITTER.



NOTE: RISER IS DIAGRAMMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR FINAL LAYOUT AND RISER SUBMITTED IN SHOP DRAWINGS.

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 INTERFERENCE'S, 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 THHN OR THWN SIZES #12 THROUGH #10. SIZES #8 THROUGH 750 MCM SHALL BE STRANDED TYPE THHN OR THWN 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 U/L 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, AMPACITY 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 ENTIRE 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 THWN 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 (ie. 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

A 2a	LED LIGHT FIXTURE. CAPITAL LETTER DENOTES FIXTURE TYPE, NUMERAL INDICATES CIRCUIT ASSIGNMENT, SUBSCRIPT LETTER DENOTES SWITCH LEG. 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
F	FUSED DISCONNECT SWITCH, SWITCH AND FUSE RATING AS INDICATED.
	3-PHASE COMBINATION MAGNETIC STARTER WITH NEMA SIZE INDICATED BY E.C.
	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", CROSS LINE DENOTES 6" ABOVE COUNTER OR BACKSPLASH 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
PE	PHOTO ELECTRIC CONTROL, ROOF MOUNTED, (FACE NORTH) 120V OPERATION, 20A RATED TIED TO LIGHTING RELAY PANEL (LRP); ACUITY #PCELL-2WO-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.
J J	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") CABLING. COVER ASSEMBLY AND DEVICES AS INDICATED. COVER FINISH TO BE SELECTED BY ARCHITECT. LEGRAND EVOLUTION 6" SERIES

W	WALL TELEPHONE OUTLET (48"AFF) WITH 1" CONDUIT
	TELEPHONE OUTLET, WITH 1" CONDUIT
	DATA SYSTEM OUTLET WITH 1" CONDUIT
TV	TV OUTLET, WITH 1" CONDUIT
^{a}	SINGLE POLE TOGGLE SWITCH, 48"AFF, SUBSCRIPT LETTER DENOTES SWITCH LEG, 20 AMP, 120 VOLT
^{3}	THREE WAY TOGGLE SWITCH, 48"AFF, 20AMP, 120VOLT.
^{T}	MANUAL SINGLE PHASE MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION. "P" DENOTES DEVICE FURNISHED WITH PILOT LIGHT., 48"AFF UNLESS INDICATED OTHERWISE
^{P}	SINGLE POLE PILOT LIGHT SWITCH, 48"AFF, PILOT LIGHT ON WHEN DEVICE IS TURNED ON, 20 AMP, 120 VOLT
^{FS}	FAN SPEED SWITCH; 48"AFF
^{MC}	MOMENTARY CONTACT SWITCH 48"A.F.F.
^{OS}	WALL MOUNTED OCCUPANCY SENSOR SWITCH (AUTO ON / AUTO OFF) 48"A.F.F. ACUITY #MSX-PDT-XX
^{VS}	WALL MOUNTED VACANCY SENSOR SWITCH (MANUAL ON / AUTO OFF) 48"A.F.F. ACUITY #MSX-PDT-SA-XX
^{DVS}	WALL MOUNTED VACANCY SENSOR DIMMER SWITCH (MANUAL ON / AUTO OFF) 48"A.F.F. ACUITY #MSX-PDT-D-SA-XX
^{LV}	nLIGHT (ON/OFF) SWITCH; 48"A.F.F. ACUITY #NPODM-XX
^{LVD}	nLIGHT (ON/OFF + RAISE/LOWER) SWITCH; 48"A.F.F. ACUITY #NPODM-DX-XX
^{LVSC}	nLIGHT SCENE CONTROLLER (ON/OFF + RAISE/LOWER) SWITCH; 48"A.F.F. ACUITY #NPODM-4SB-DX-WH
PP	nLIGHT 0-10V POWER PACK; ACUITY #NPP16-D
PP2	nLIGHT ELV POWER PACK; ACUITY #NSP5-PCD
OS	nLIGHT CEILING MOUNTED ULTRASONIC/ PASSIVE INFRARED OCCUPANCY SENSOR; ACUITY #nCM-PDT-10-RJB
VS	nLIGHT CEILING MOUNTED ULTRASONIC/ PASSIVE INFRARED VACANCY SENSOR; ACUITY #nCM-PDT-10-RJB

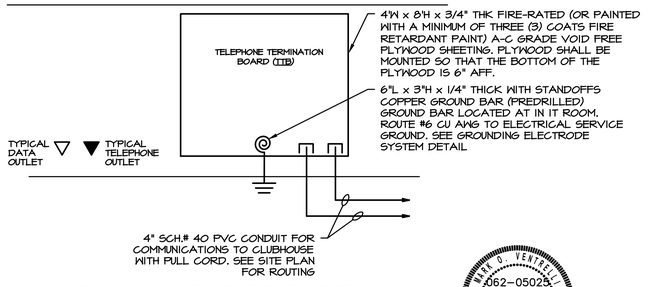
BRANCH WIRING NOTES

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	#8	100 AMPERE	#3



DETAIL - TELEPHONE/CATV RISER 'TTB'

NOT TO SCALE

MARK D. VENTRELL 062-050251 REGISTERED PROFESSIONAL ENGINEER
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EXPIRES 11/30/21

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

project no.	200248TD
date:	08.19.2021 BID
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revision 3:	
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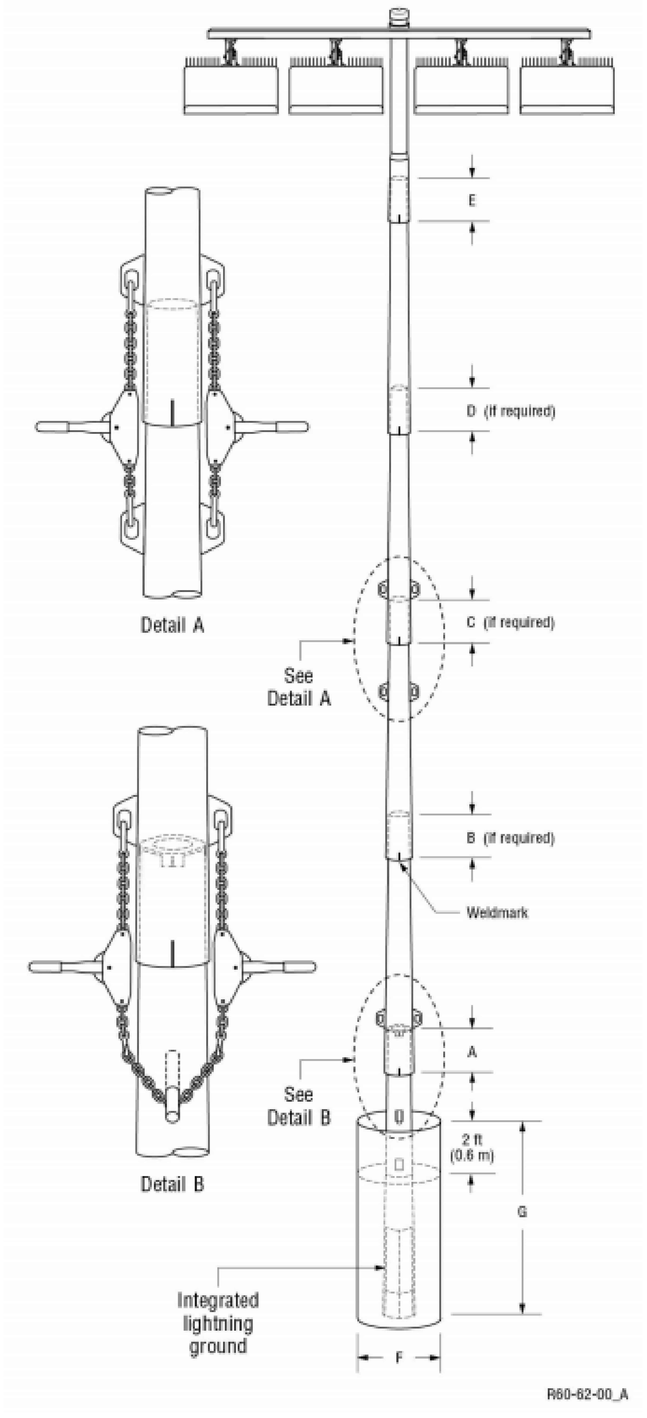
drawn:	KM, RC, EM

sheet title: ELECTRICAL SPEC, SYMBOLS + NOTES

sheet number: E2.2



MUSCO LIGHTING DETAIL

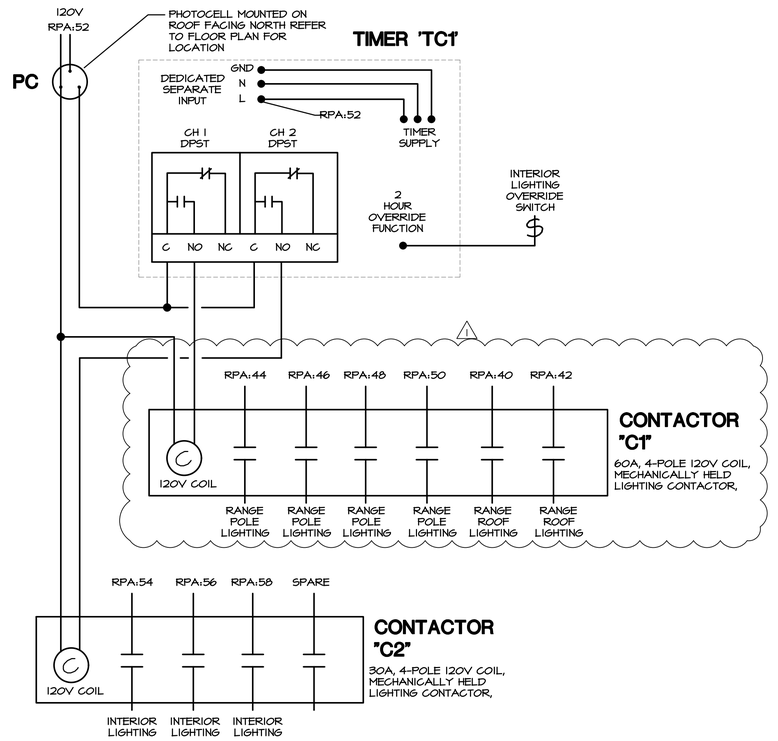
SCALE: NONE

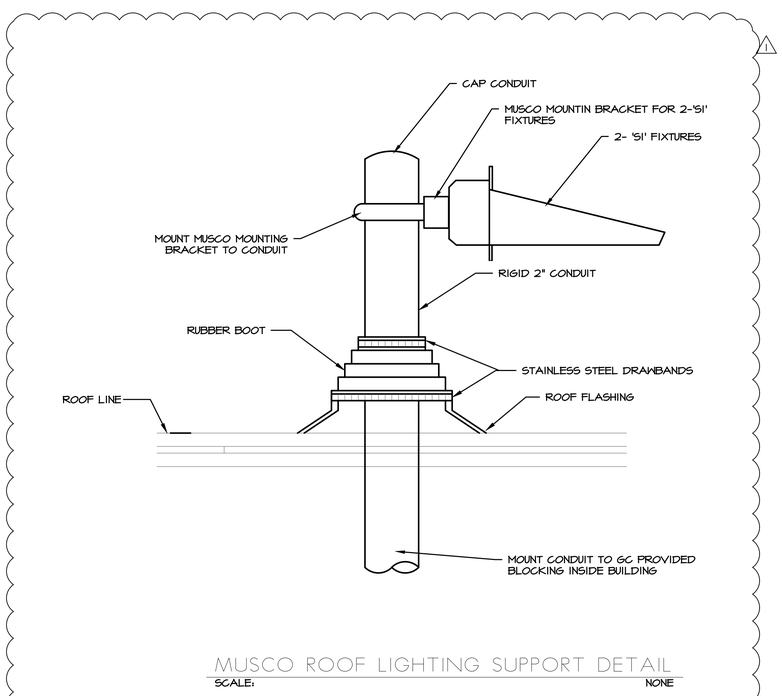
LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION & FEATURES	LAMPS QTY.	LAMPS TYPE	MOUNTING CLG./POLE-TYPE	VOLT	SPECIFIED MANUFACTURER AND CATALOG NUMBER
A	4'-0" LED STRIP WITH LENS		30W LED	SURFACE	120	LITHONIA #ZLID-L48-5000LM-FST-
						MVOLT-35K-80CRI-WH
A1	4'-0" LED STRIP WITH LENS & BUILT-IN		30W LED	SURFACE	120	LITHONIA #ZLID-L48-5000LM-FST-
	EMERGENCY BATTERY BACK-UP					MVOLT-35K-80CRI-E7IH-WH
B	4'-0" LED WRAPAROUND		45.2W LED	SURFACE	120	LITHONIA #STL4-48L-EZI-LP830
B1	4'-0" LED WRAPAROUND W/BUILT-IN		34.9W LED	SURFACE	120	LITHONIA #STL4-48L-EZI-LP830
	EMERGENCY BATTERY BACK-UP					EL14L
C	8'-0" LED SUSPENDED		50W LED	SUSPENDED	120	LITHONIA LLG 6000LM 80CRI 35K EPD
						MINIO ZT MVOLT WH ZAC120
C1	8'-0" LED SUSPENDED		50W LED	SUSPENDED	120	LITHONIA LLG 6000LM 80CRI 35K EPD
	EMERGENCY BATTERY BACK-UP					MINIO ZT MVOLT TEIOMCP 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/ 60' POLE		8-11TOW LED	POLE	208	MUSCO-TLG LED 1200 5100K 75CRI
						208V 60' POLE
S1	SPORTS LIGHT ROOF MOUNT		6-575W LED	ROOF	208	MUSCO-TLG BT 575 5100K 75CRI
						208V
X	LED EXIT SIGN WITH EMERGENCY		1W LED	SURFACE	120	LITHONIA #LQM-S-W-3-R-120/277-ELN
	BATTERY BACKUP					

NOTES:

1. 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.
2. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS AND CEILING CONTRACTOR FOR EXACT LIGHTING FIXTURE LOCATION.
3. 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.
4. 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





MUSCO ROOF LIGHTING SUPPORT DETAIL

SCALE: NONE

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EXPIRES 11/30/21

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

project no.	200248TD
date:	08.19.2021 BID
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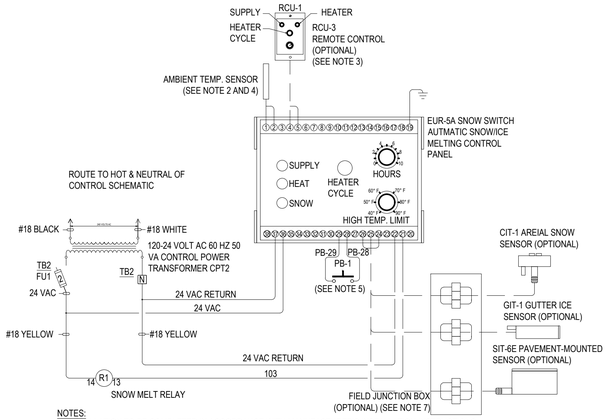
revision 2:	
revision 3:	
revision 4:	
checked:	MOV
drawn:	KM, RC, DM

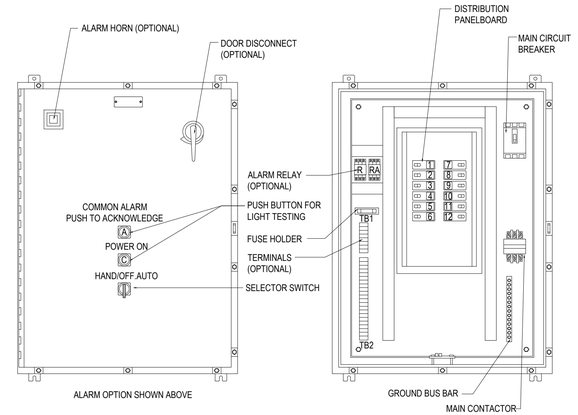
sheet title: LIGHTING FIXTURE SCHEDULE

sheet number: E2.3



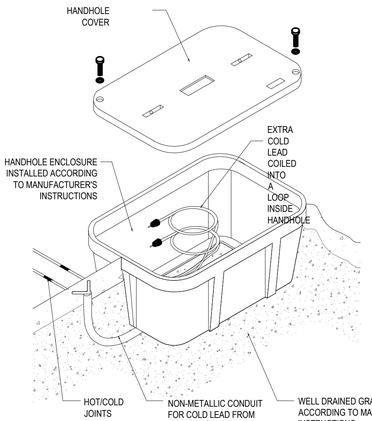
NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. DASHED LINES INDICATE FIELD WIRING.
3. SENSORS AND THERMISTOR CAN BE LOCATED A MAXIMUM 2000 FEET FROM THE CONTROL POWER.
4. RCU-3 CAN BE LOCATED A MAXIMUM 500 FEET FROM THE CONTROL POWER.
5. THERMISTOR MUST BE INSTALLED FOR PROPER OPERATION OF EUR-5A. THERMISTOR IS ETI CATALOG NUMBER 19272
6. PUSHBUTTON PB-1 WILL TURN THE HEATERS ON FOR A PRE-DETERMINED AMOUNT OF TIME SET AT THE CONTROLLER.
7. THE 40° TO 90° F (4° TO 32° C) ADJUSTABLE TEMPERATURE LIMIT PROTECTS HEATERS, ASPHALT, PAVEMENT AND OTHER SENSITIVE MATERIALS FROM DAMAGE DUE TO EXCESSIVE TEMPERATURE WHILE ALLOWING HEATER TESTING DURING THE SUMMMER MONTHS. AT TEMPERATURES ABOVE THE LIMIT SETTING, TOGGLING HEATERS OPERATE FOR 30 SECONDS. THEREAFTER, THE HEATER CANNOT BE TOGGLED FOR TWO MINUTES.
8. UP TO SIX MOISTURE/TEMPERATURE SENSORS CAN BE USED IN ANY COMBINATION. THE USER CAN CHOOSEFROM THE CIT-1/GIT 1/SIT-6E FAMILIES.
9. ○ EUR-5A TERMINAL
   □ CONTROL PANEL TERMINAL
10. DO NOT SCALE DRAWING.
11. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info REFERENCE NUMBER 3408-127.

SNOW MELT PANEL
EUR-5A WIRING DIAGRAM



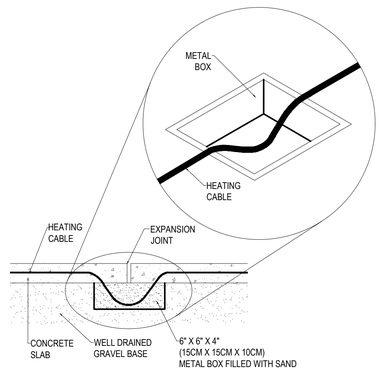
NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 3408-118.

HEAT TRACING POWER DISTRIBUTION PANELS
DIGITRACE HTPG POWER DISTRIBUTION PANEL



NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. ALL DIMENSIONS ARE CONSIDERED TRUE AND REFLECT MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.
4. THESE DRAWINGS ARE NOT FOR CONSTRUCTION PURPOSES AND ARE FOR INFORMATION PURPOSES ONLY. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info REFERENCE NUMBER 3408-160.

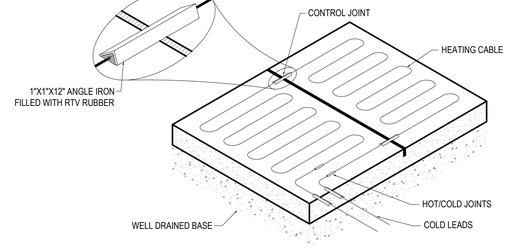
PYROTENAX MINERAL INSULATED SNOW MELTING SYSTEMS
MI TERMINATIONS IN HANDHOLE ENCLOSURES



CROSSING EXPANSION JOINTS

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 3408-126.

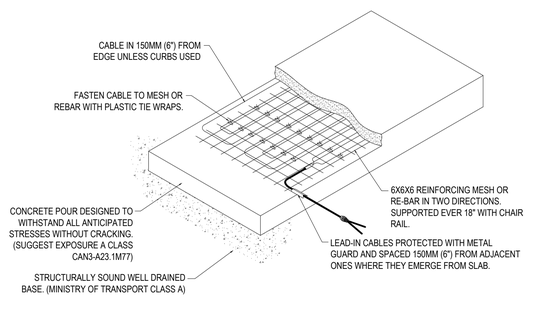
MI EXPANSION JOINT DETAIL
CROSSING EXPANSION JOINTS WITH MI HEATING CABLE



METHOD OF CROSSING CONTROL JOINT WITH
M.I. HEATING CABLE IN CONCRETE SLAB

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 3408-078.

SURFACE SNOW MELTING
PYROTENAX - CONTROL JOINT INSTALLATION DETAIL



NOTES:
1. LEAD-IN CABLE SHOULD BE TERMINATED IN A JUNCTION BOX ABOVE GRADE LEVEL TO PREVENT MOISTURE FROM ENTERING FROM ENTERING THE BOX.
2. CARE MUST BE TAKEN NOT TO DAMAGE CABLE WITH RAKES, SHOVELS, WHEELBARROWS, ETC.
3. CONTROL JOINTS TO BE PLACED NO FURTHER THAN 20' IN ANY ONE DIRECTION.
4. CUT CONTROL JOINTS 1/8" WIDE AND 3/4" DEEP APPROX. 6 HOURS AFTER PLACING CONCRETE.
5. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
6. DO NOT SCALE DRAWING.
7. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
8. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
9. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 3408-082.

SURFACE SNOW MELTING
PYROTENAX - CONCRETE SINGLE POUR INSTALLATION DETAIL

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BRIDGES OF POPLAR CREEK DRIVING RANGE
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drawn:	KM, RC, DM

sheet title:
SNOW MELT DETAILS

sheet number:
E2.4

PROVIDE TWO (2) 4" SCHEDULE #40 PVC CONDUITS UNDERGROUND FOR COMMUNICATION CABLE. ROUTE CONDUIT TO EXISTING BUILDING CLUBHOUSE. VERIFY EXACT BUILDING PENETRATION LOCATIOM FIELD. PROVIDE ALL NECESSARY ACCESSORIES FOR COMPLETE INSTALLATION. PROVIDE PULL CORD. FIBER CABLE BY OTHERS.

RPA;25
#10 AWG

FIRE PIT POWER. VERIFY FINAL POWER REQUIREMENTS PRIOR TO INSTALLATION AS REQUIRED.

RPA;25
#10 AWG

RPA;25
#10 AWG

RPA;48-50
2#8,1#10G,1"C

RPA;48-50

2#10,1#10G3/4"C

RPA;40-42

REFER TO BASE DETAIL ON DRAWING E2.3

SECONDARY FEEDER. SEE RISER DIAGRAM ON SHEET E2.1 FOR FEEDER SPECIFICATION. VERIFY FINAL ROUTING WITH COMED PRIOR TO START OF WORK AS REQUIRED.

EXISTING COMED TRANSFORMER. VERIFY POWER FEED REQUIREMENTS WITH COMED PRIOR TO START OF WORK

RPA;44-46
2#8,1#10G,1"C

RPA;44-46

TTB

RPA;40-42
2#8,1#10G,1"C

RPA;40-42

2#10,1#10G3/4"C

RPA;40-42

2#10,1#10G3/4"C

REFER TO MOUNTING DETAIL ON DRAWING E2.3

C/T & METER FITTING

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

MARK G. VENTRELLA
062-050251
REGISTERED
PROFESSIONAL
ENGINEER
ILLINOIS

SIGNED 04/07/21
EXPIRES 11/30/21

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

project no.	200248TD
date:	03.19.2021 BID
revision 1:	04.07.2021 BID
revision 2:	
revision 3:	
revision 4:	
checked:	MOV
drawn:	KM, RG, DM

sheet title:
SITE ELECTRICAL PLAN

sheet number:
SE1.1

Bridges Of Poplar Creek Driving Range

Hoffman Estates, IL

Lighting System

Pole / Fixture Summary

Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
M1-M3	--	12'	2	TLC-BT-575	1.15 kW	A
P1-P2	60'	60'	4	TLC-LED-1200	4.68 kW	A
5			***14***		***12.81 kW***	

Circuit Summary

Circuit	Description	Load	Fixture Qty
A	Driving Range	12.81 kW	14

Fixture Type Summary

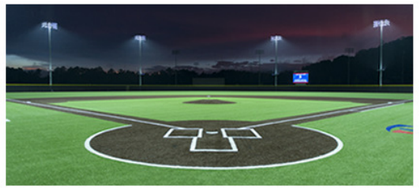
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	6
TLC-LED-1200	LED 5700K - 75 CRI	1170W	136,000	>120,000	>120,000	>120,000	8

Light Level Summary

Calculation Grid Summary

Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
105' Vertical	Arbitrary Illuminance	4.08	2.41	5.11	2.12	1.69	A	14
25' Vertical	Arbitrary Illuminance	25.8	15.2	29.7	1.95	1.70	A	14
45' Vertical	Arbitrary Illuminance	23.1	13.3	28.2	2.13	1.74	A	14
5' Vertical	Arbitrary Illuminance	19.9	13	22	1.69	1.52	A	14
65' Vertical	Arbitrary Illuminance	13.6	8.05	17	2.12	1.69	A	14
85' Vertical	Arbitrary Illuminance	6.26	3.61	7.93	2.20	1.73	A	14
Driving Range	Horizontal Illuminance	7.27	1	23	23.44	7.27	A	14

From Hometown to Professional



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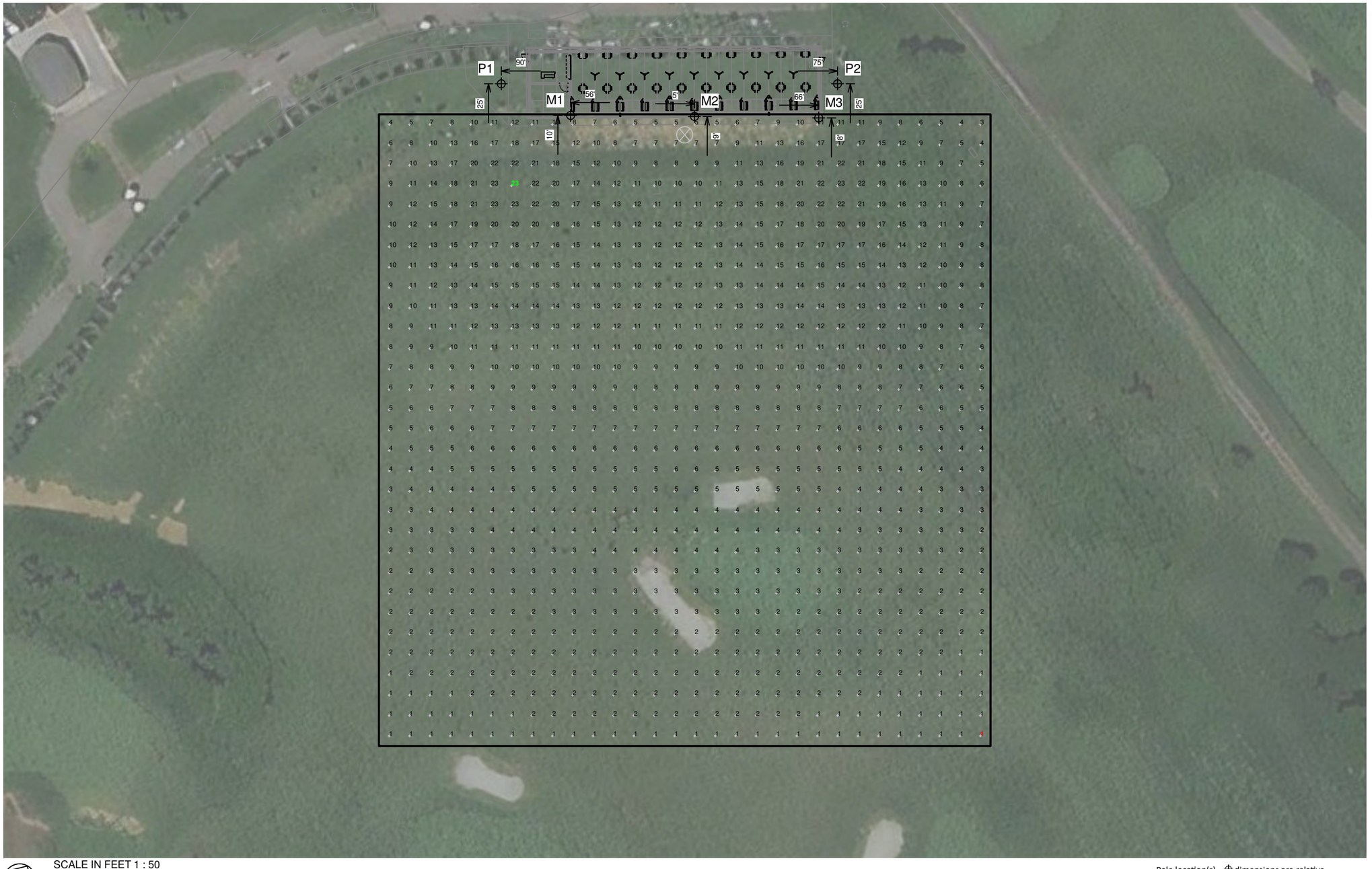
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
3	M1-M3		12'	12'	TLC-BT-575	2	2	0
2	P1-P2	60'	-	60'	TLC-LED-1200	4	4	0
5	TOTALS					14	14	0



SCALE IN FEET 1 : 50

0' 50' 100'

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Bridges Of Poplar Creek Driving Range
Hoffman Estates, IL

GRID SUMMARY

Name:	**Driving Range**
Size:	300' x 310'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	**7.27**
Maximum:	23
Minimum:	1
Avg / Min:	7.30
Max / Min:	**23.44**
UG (adjacent pts):	1.57
CU:	0.50
No. of Points:	930

LUMINAIRE INFORMATION

Applied Circuits:	A
No. of Luminaires:	**14**
Total Load:	12.81 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
3	M1-M3		12'	12'	TLC-BT-575	2	2	0
2	P1-P2	60'	-	60'	TLC-LED-1200	4	4	0
5	TOTALS					14	14	0

SCALE IN FEET 1 : 50

0' 50' 100'

0°
90° 270°
180°
METER ORIENTATION

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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Bridges Of Poplar Creek Driving Range
Hoffman Estates, IL

GRID SUMMARY

Name:	**5' Vertical**
Spacing:	10.0'
Height:	5.0' above grade

ILLUMINATION SUMMARY

VERTICAL FOOTCANDLES: 0° Tilt

	Entire Grid
Scan Average:	19.8639
Maximum:	21.96
Minimum:	13.03
No. of Points:	30

LUMINAIRE INFORMATION

Applied Circuits:	A
No. of Luminaires:	**14**
Total Load:	12.81 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
3	M1-M3		12'	12'	TLC-BT-575	2	2	0
2	P1-P2	60'	-	60'	TLC-LED-1200	4	4	0
5	TOTALS					14	14	0

SCALE IN FEET 1 : 50

0' 50' 100'

0°
90° 270°
180°
METER ORIENTATION

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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Bridges Of Poplar Creek Driving Range
Hoffman Estates, IL

GRID SUMMARY

Name:	**25' Vertical**
Spacing:	10.0'
Height:	25.0' above grade

ILLUMINATION SUMMARY

VERTICAL FOOTCANDLES: 0° Tilt

	Entire Grid
Scan Average:	25.7911
Maximum:	29.67
Minimum:	15.20
No. of Points:	30

LUMINAIRE INFORMATION

Applied Circuits:	A
No. of Luminaires:	**14**
Total Load:	12.81 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
3	M1-M3		12'	12'	TLC-BT-575	2	2	0
2	P1-P2	60'	-	60'	TLC-LED-1200	4	4	0
5	TOTALS					14	14	0

SCALE IN FEET 1 : 50

0' 50' 100'

0°
90° 270°
180°
METER ORIENTATION

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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Bridges Of Poplar Creek Driving Range
Hoffman Estates, IL

GRID SUMMARY

Name:	**45' Vertical**
Spacing:	10.0'
Height:	45.0' above grade

ILLUMINATION SUMMARY

VERTICAL FOOTCANDLES: 0° Tilt

	Entire Grid
Scan Average:	23.0614
Maximum:	28.24
Minimum:	13.27
No. of Points:	30

LUMINAIRE INFORMATION

Applied Circuits:	A
No. of Luminaires:	**14**
Total Load:	12.81 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
3	M1-M3		12'	12'	TLC-BT-575	2	2	0
2	P1-P2	60'	-	60'	TLC-LED-1200	4	4	0
5	TOTALS					14	14	0

SCALE IN FEET 1 : 50

0' 50' 100'

0°
90° 270°
180°
METER ORIENTATION

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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Bridges Of Poplar Creek Driving Range
Hoffman Estates, IL

GRID SUMMARY

Name:	**65' Vertical**
Spacing:	10.0'
Height:	65.0' above grade

ILLUMINATION SUMMARY

VERTICAL FOOTCANDLES: 0° Tilt

	Entire Grid
Scan Average:	13.5735
Maximum:	17.02
Minimum:	8.05
No. of Points:	30

LUMINAIRE INFORMATION

Applied Circuits:	A
No. of Luminaires:	**14**
Total Load:	12.81 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
3	M1-M3		12'	12'	TLC-BT-575	2	2	0
2	P1-P2	60'	-	60'	TLC-LED-1200	4	4	0
5	TOTALS					14	14	0

SCALE IN FEET 1 : 50

0' 50' 100'

0°
90° 270°
180°
METER ORIENTATION

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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Bridges Of Poplar Creek Driving Range
Hoffman Estates, IL

GRID SUMMARY

Name:	**85' Vertical**
Spacing:	10.0'
Height:	85.0' above grade

ILLUMINATION SUMMARY

VERTICAL FOOTCANDLES: 0° Tilt

	Entire Grid
Scan Average:	6.2606
Maximum:	7.93
Minimum:	3.61
No. of Points:	30

LUMINAIRE INFORMATION

Applied Circuits:	A
No. of Luminaires:	**14**
Total Load:	12.81 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
3	M1-M3		12'	12'	TLC-BT-575	2	2	0
2	P1-P2	60'	-	60'	TLC-LED-1200	4	4	0
5	TOTALS					14	14	0

SCALE IN FEET 1 : 50

0' 50' 100'

0°
90° 270°
180°
METER ORIENTATION

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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Bridges Of Poplar Creek Driving Range
Hoffman Estates, IL

GRID SUMMARY

Name:	**105' Vertical**
Spacing:	10.0'
Height:	105.0' above grade

ILLUMINATION SUMMARY

VERTICAL FOOTCANDLES: 0° Tilt

	Entire Grid
Scan Average:	4.0768
Maximum:	5.11
Minimum:	2.41
No. of Points:	30

LUMINAIRE INFORMATION

Applied Circuits:	A
No. of Luminaires:	**14**
Total Load:	12.81 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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Bridges Of Poplar Creek Driving Range
Hoffman Estates, IL

EQUIPMENT LAYOUT

INCLUDES:
· Driving Range

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires		
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE
3	M1-M3		12'	12'	TLC-BT-575	2
2	P1-P2	60'	-	60'	TLC-LED-1200	4
5	TOTALS					14

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Ballast Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-BT-575	3.4	3.2	2.9	2.5	2.0	1.8	1.5
TLC-LED-1200	7.0	6.6	6.1	5.2	4.2	4.0	3.0

SCALE IN FEET 1 : 100
0' 100' 200'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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