

1/6/2020
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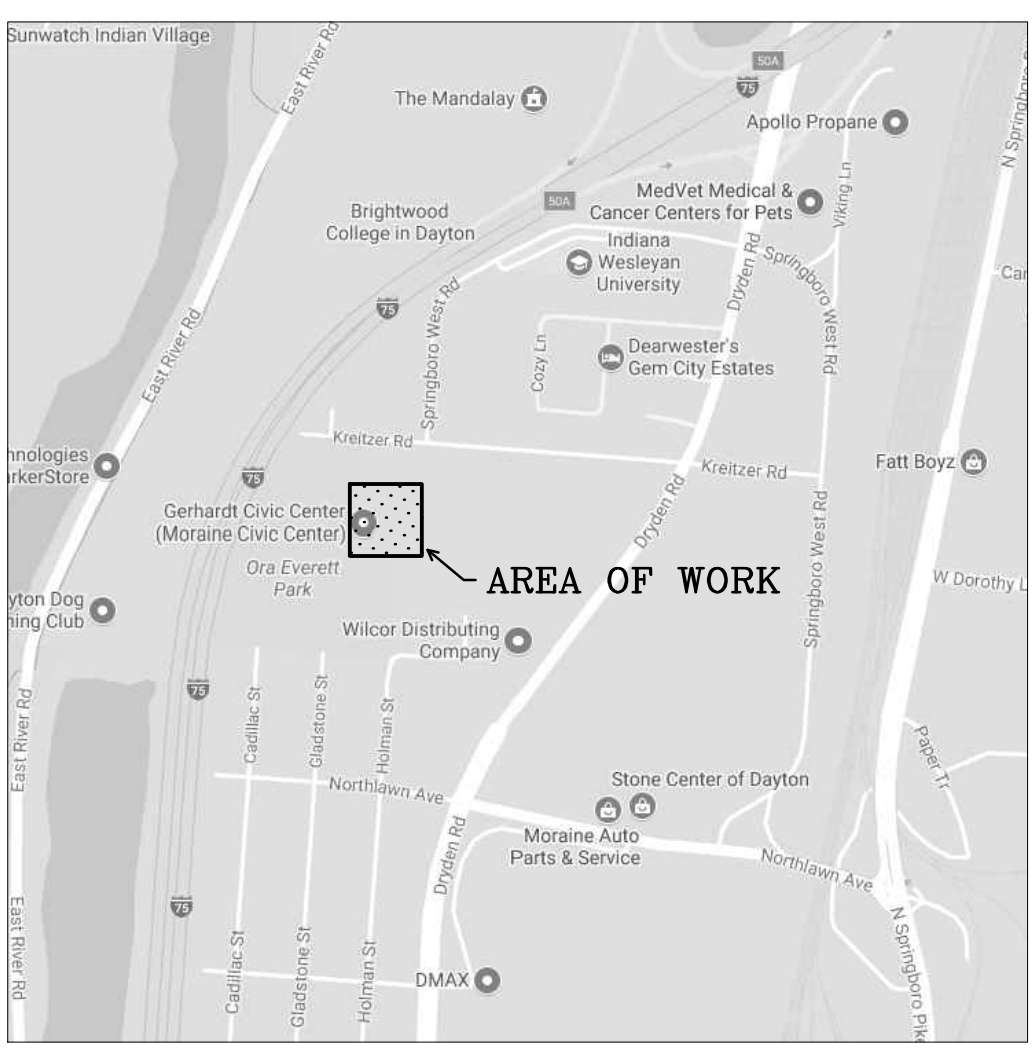
New Fire Alarm System
at
Gerhardt Civic Center
for
City of Moraine

3050 Kreitzer Road
Moraine, Ohio 45439

January 6, 2020

Helmig Lienesch LLC
Consulting Engineers

410 South Jefferson Street (937) 228-4007
Dayton, Ohio 45402 FAX: (937) 228-1936



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- FA-0 FIRE ALARM - LEGEND, NOTES, DETAILS
- FA-1 FIRE ALARM - FLOOR PLAN

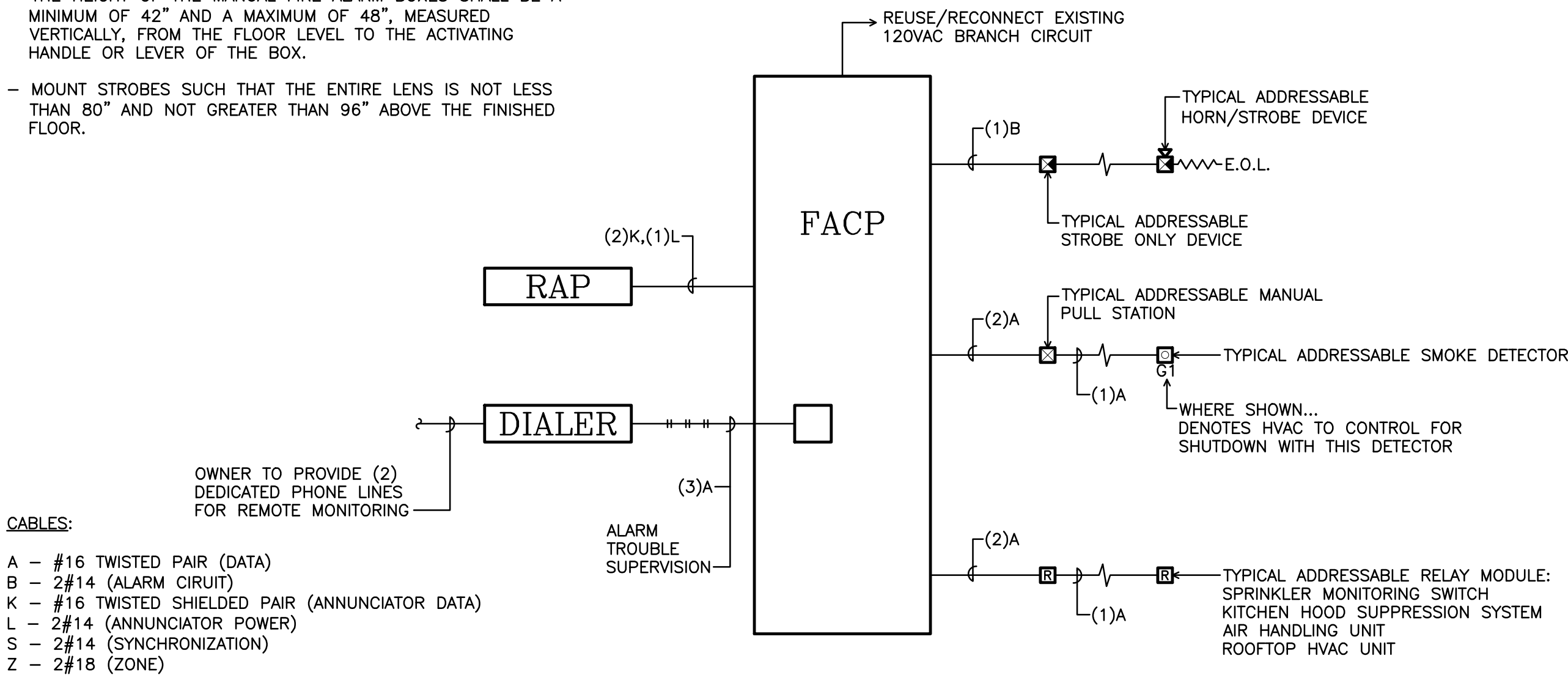
Bids Due: January 22, 2020

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NOTES

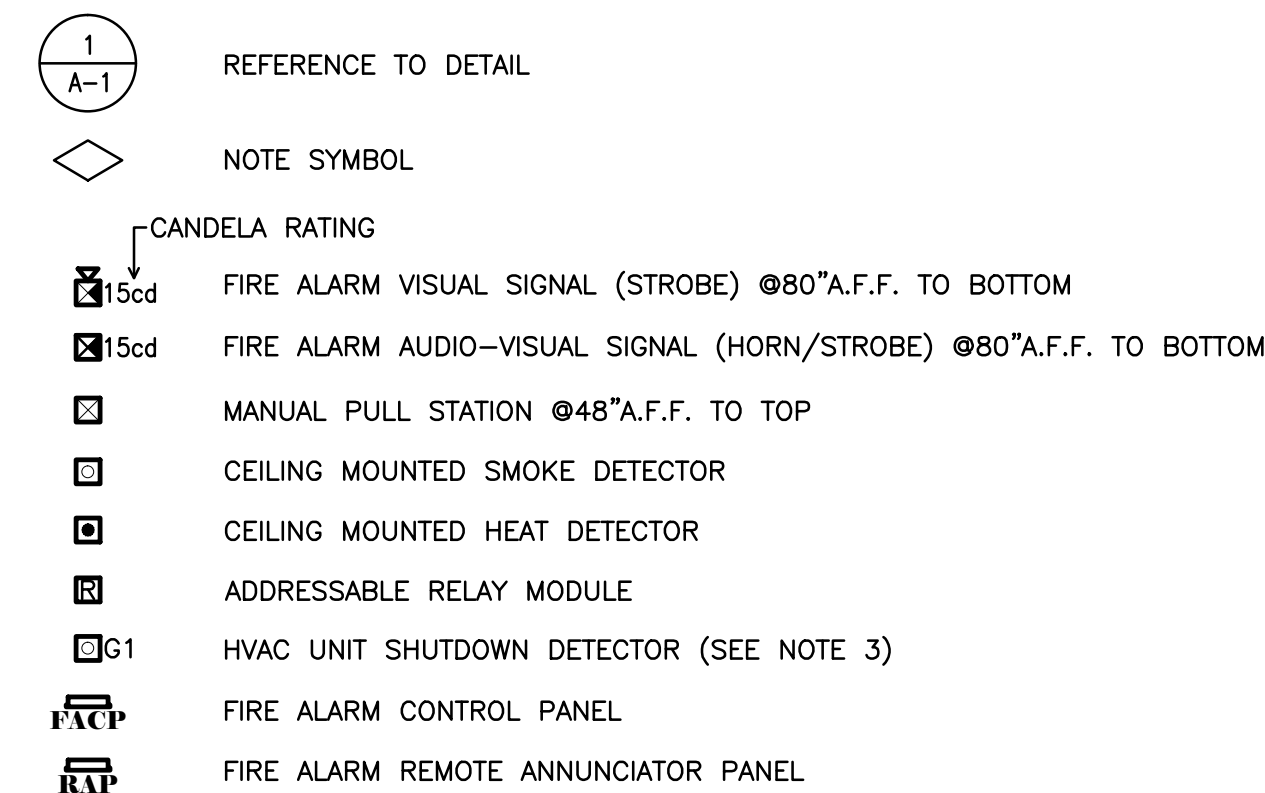
- ALL WIRE MUST MEET NEC-760 FOR POWER LIMITED SYSTEMS
- ALL EQUIPMENT SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH NFPA-72 STANDARDS.
- THERE MUST BE NO AC POWER IN THE FIRE ALARM CONDUIT.
- THE HEIGHT OF THE MANUAL FIRE ALARM BOXES SHALL BE A MINIMUM OF 42" AND A MAXIMUM OF 48", MEASURED VERTICALLY, FROM THE FLOOR LEVEL TO THE ACTIVATING HANDLE OR LEVER OF THE BOX.
- MOUNT STROBES SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR.



1 FIRE ALARM RISER DIAGRAM

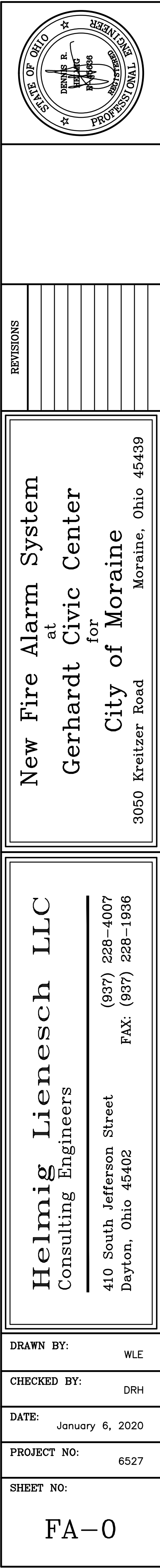
SCALE: N.T.S.

ELECTRICAL LEGEND

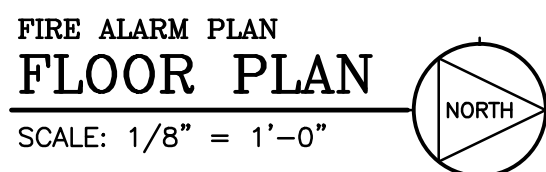


GENERAL NOTES

- A. ALL FIRE ALARM CONTROL CABLES SHALL BE PLENUM RATED:
- CABLES ABOVE LAY-IN CEILINGS SHALL BE INSTALLED USING J-HOOKS SPACED APPX 4'-0" O.C. MOUNTED ON STRUCTURE OR WALLS AT A HEIGHT THAT ALLOWS CEILING TILE REMOVAL.
 - CABLES RUN IN MECHANICAL ROOMS, ELECTRICAL ROOMS, EQUIPMENT ROOMS, STORAGE ROOMS, AND OTHER AREAS WHERE CABLE IS SUBJECT TO DAMAGE ALL CABLE SHALL BE RUN IN MINIMUM 1" EMT.
 - CABLES RUN EXPOSED IN CLASSROOMS, OFFICES, CORRIDORS, LOBBIES, CONFERENCE ROOMS, OR ANY FINISHED AREA IT SHALL BE RUN IN METALLIC, RECTANGULAR, WIREWAY AS MANUFACTURED BY WIREMOLD (500 OR 700 SERIES), PANDUIT, OR EQUAL. THE WIREWAY SHALL BE SECURELY MOUNTED TO WALLS, CEILING, ETC. THE WIREWAY SHALL BE IVORY TO MATCH BUILDING PANEL COLOR.
- B. WHERE FABRIC OR PANELED WALLS EXIST TAKE SPECIAL CARE NOT TO DAMAGE THE FINISH. IF DAMAGE OCCURS, REPAIR AS REQUIRED.
- C. ANY DAMAGED SURFACE SHALL BE FINISHED AND PAINTED (CORNER TO CORNER) TO MATCH EXISTING.



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- 1 REMOVE EXISTING DUCT DETECTOR MONITORS AND REPAIR/PAINT WALL TO MATCH EXISTING. REMOVE ALL ABANDONED CONDUIT AND WIRE IN IT'S ENTIRETY. SALVAGE EXISTING BRANCH CIRCUIT TO SERVE NEW FACP. VERIFY THAT THIS BRANCH CIRCUIT IS DEDICATED FOR FACP ONLY.
- 2 PROVIDE NEW FIRE ALARM CONTROL PANEL (FACP) ON 3/4" x 48"W x 96"H PLYWOOD EQUIPMENT BACKBOARD PAINTED ALL SIDES WITH GRAY FIRE-RETARDANT PAINT.
- 3 WIRE HVAC ZONE SMOKE DETECTORS TO SHUT DOWN ASSOCIATED HVAC UNIT, VIA ADDRESSABLE RELAY MODULE, WHEN SMOKE IS DETECTED. USE A NOTIFIER NC-100R RELAY MODULE TO SHUT DOWN THE HVAC UNITS.
- 4 PROVIDE RELAY MODULES TO MONITOR EXISTING SPRINKLER AND OSSY VALVE TAMPER SWITCHES AND KITCHEN HOOD SUPPRESSION SYSTEM. USE A NOTIFIER NM1M-100P MONITOR RELAY FPD THESE APPLICATIONS.
- 5 SURFACE MOUNT REMOTE ANNUNCIATOR PANEL "RAP" CENTERED ON EXISTING WALL AT 60" A.F.F. TO CENTERLINE. RUN CABLE TO LAY-IN CEILING USING WIREMOLD RACEWAY.
- 6 REMOVE EXISTING DUCT MOUNTED SMOKE DETECTOR, AND ASSOCIATED CONDUIT AND WIRE, AT EACH HVAC UNIT.



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Kreitzer Road Moraine, Ohio 4

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Dayton, Ohio 45402
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RAWN BY: WLE

CHECKED BY: DRH

DATE: January 6, 2020

PROJECT NO: 6527

SHEET NO:

FA-1