

Fiber WAN Additions & Replacements

West Ottawa Public Schools
Holland, MI

Project Number: 1802-0000

ISSUE / DATE
2019-10-23 REVIEW
2019-11-15 FOR BIDS

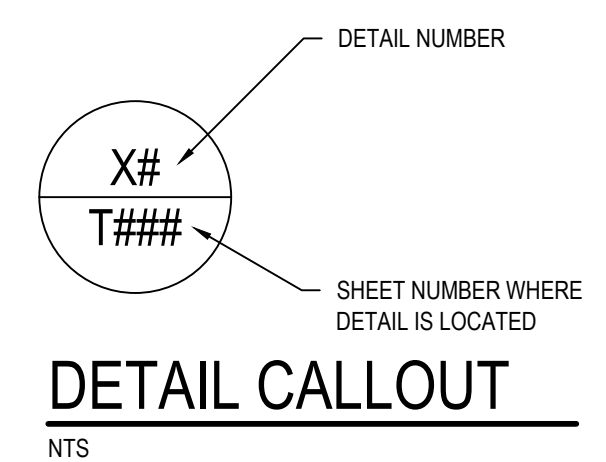
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PROJECT NO. 1802-0000
SHEET NO.

TG001

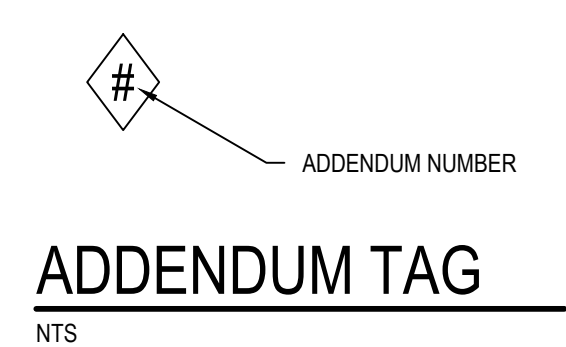
ABBREVIATIONS	
ABBREVIATION	TERMINOLOGY
AC	ACCESS CONTROL
AFF	ABOVE FINISH FLOOR
ATS	AUTOMATIC TRANSFER SWITCH
AV OR AV	AUDIO / VIDEO
BB	BACKERBOARD
CIP	CAST IN PLACE
CLG	CEILING
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRICAL METALLIC TUBING
EQ	EQUAL
EQUIV	EQUIVALENT
EXIST	EXISTING
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRD	GROUND
IDF	INTERMEDIATE DISTRIBUTION FRAME
PT	POKE-THROUGH
MDF	MAIN DISTRIBUTION FRAME
NIC	NOT IN CONTRACT
OC	ON CENTER
SC	STRUCTURED CABLING
SCC	STRUCTURED CABLING CONTRACTOR
TC	TECHNOLOGY CLOSET
TGB	TELECOM GROUNDING BUSBAR
TMGB	TELECOM MAIN GROUNDING BUSBAR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY

LIST OF DRAWINGS	
NUMBER	TITLE
TG001	Titlesheet
TG002	General Information
TS101	Fiber Site Plan
TS102	Great Lakes ES Tech Site Plan
TS103	Lakeshore ES Tech Site Plan
TS104	Lake Wood ES Tech Site Plan
TS105	North Holland ES Tech Site Plan
TS106	Pine Creek ES Tech Site Plan
TS107	Sheldon Woods ES Tech Site Plan
TS108	Waukazoo ES Tech Site Plan
TS109	Woodside ES Tech Site Plan
TS110	Harbor Lights ES & Macatawa Bay MS Tech Site Plan
TS111	West Ottawa HS Tech Site Plan
T112	Maintenance Buildings Tech Site Plan
T113	New ES Tech Site Plan
TS114	Technology Site Details
TS115	Fiber WAN Riser
T101	Great Lakes ES Tech Plan - Composite
T102	Lakeshore ES Tech Plan - Composite
T103	Lake Wood ES Tech Plan - Composite
T104	North Holland ES Tech Plan - Composite
T105	Pine Creek ES Tech Plan - Composite
T106	Sheldon Woods ES Tech Plan - Composite
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T110	Macatawa Bay MS Tech Plan - Composite
T111	West Ottawa HS South Tech Plan - Composite
T112	West Ottawa HS North Tech Plan - Composite
T301	Structured Cabling Details

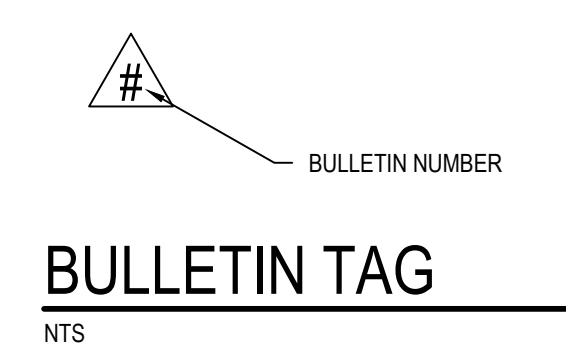
GENERAL NOTES	
1.	NONE.



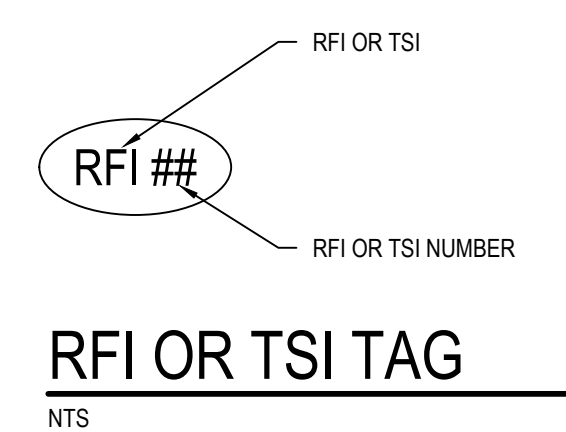
NOTES:
1. USED ON TECHNOLOGY FLOOR PLANS TO REFERENCE A DETAIL, ELEVATION, OR SYSTEM OF COMPONENTS ELEVATION ON ANOTHER SHEET.



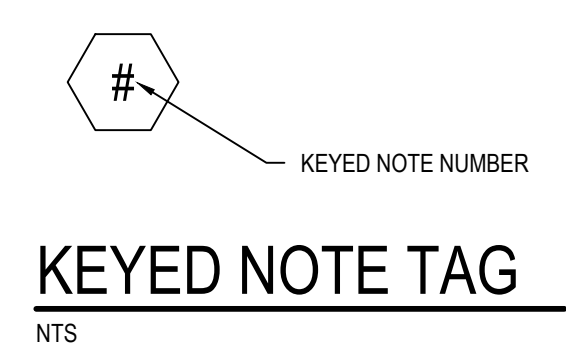
NOTES:
1. LOCATED NEXT TO A REVISION CLOUD FOR ANY REVISIONS AFTER BIDS HAVE BEEN RELEASED, BEFORE CONTRACT HAS BEEN AWARDED.



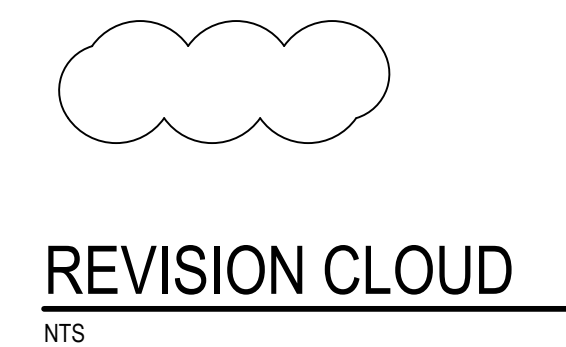
NOTES:
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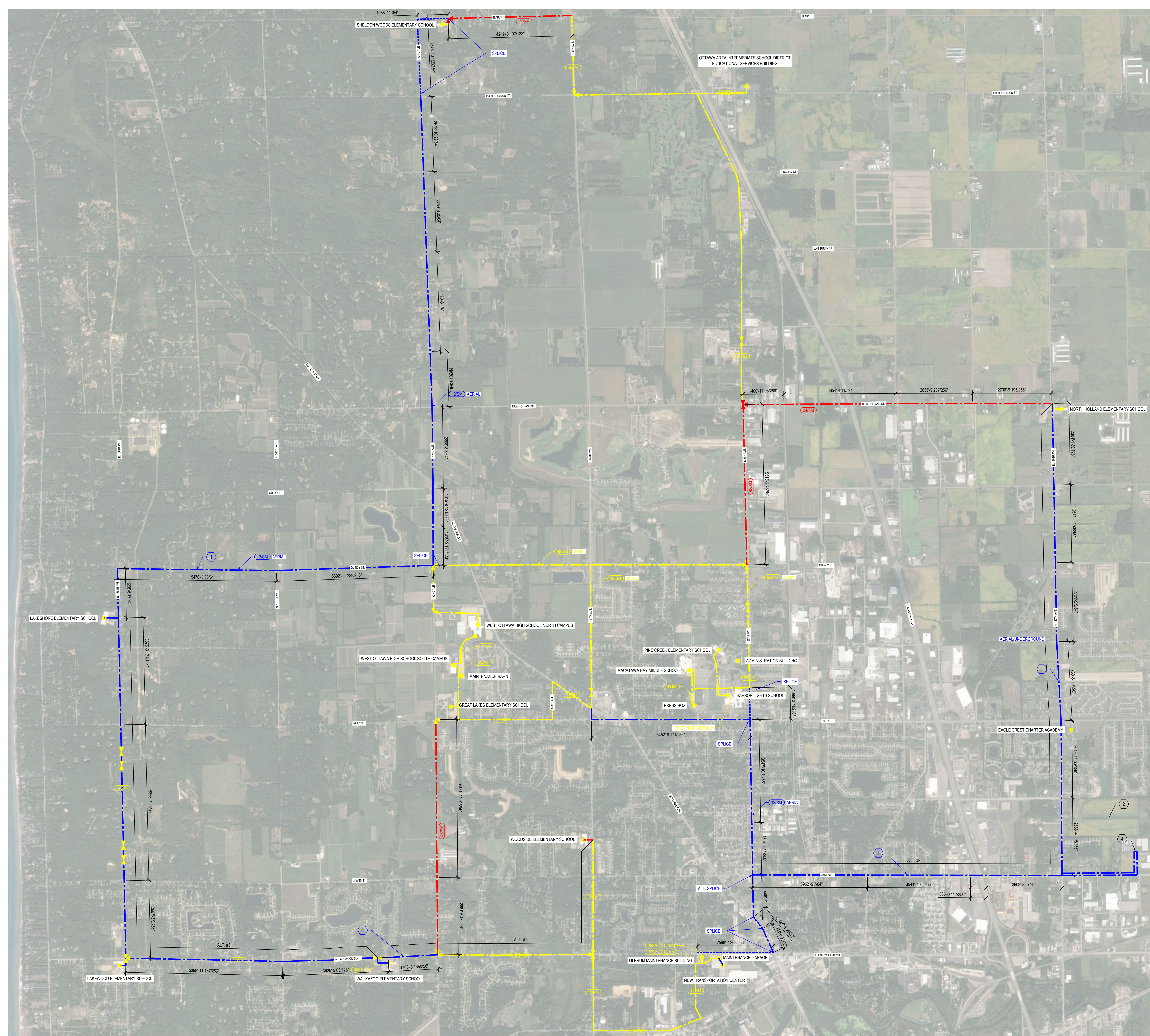
NOTES:
1. RFI (REQUEST FOR INFORMATION) INDICATES A REVISION AND CORRESPONDING NOTE THAT DOES NOT AFFECT BUDGET THAT WAS NOT INITIATED BY TECHNOLOGY CONTRACTOR.
2. TSI (TECHNOLOGY INFORMATION) TAG INDICATES A REVISION AND CORRESPONDING NOTE THAT DOES NOT AFFECT BUDGET.



NOTES:
1. REFERENCE TO CORRESPONDING NOTES ON SAME SHEET THAT HAVE MORE INFORMATION RELATED TO SYMBOL.

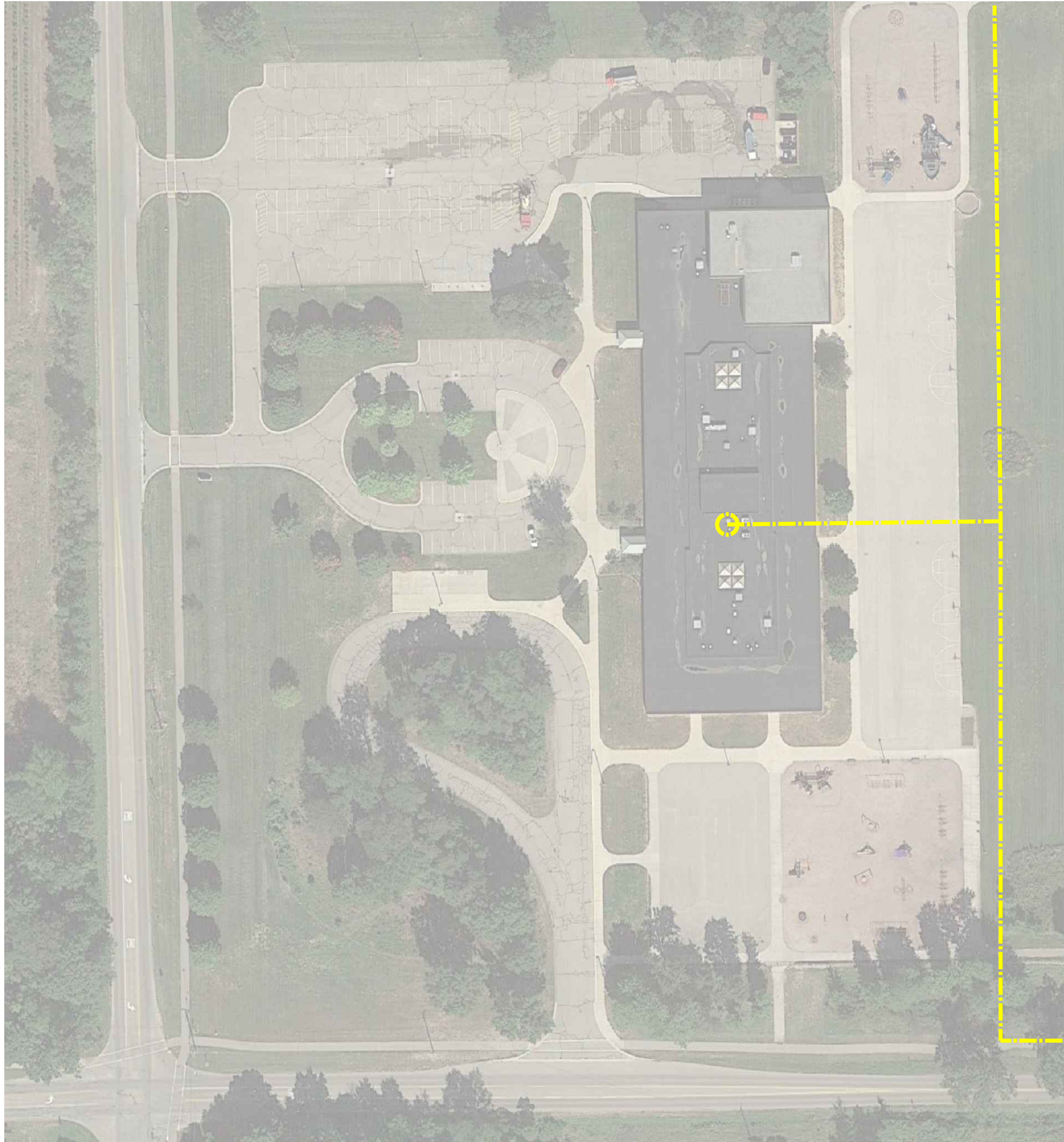


NOTES:
1. DRAWN AROUND REVISION AREA RELATED TO ANY ADDENDUM OR BULLETIN.



SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	EXISTING FIBER TERMINATION
	EXISTING FIBER SPLICE
	EXISTING SINGLE MODE FIBER - TO REMAIN
	EXISTING SINGLE MODE FIBER - TO BE REPLACED
	NEW SINGLE MODE FIBER
	NEW SINGLE MODE FIBER - UNDERGROUND

- GENERAL NOTES**
- PRELIMINARY FIBER ROUTE DEPENDING ON UTILITY COMPANY'S FINDINGS.
 - PROPOSED LOCATION FOR NEW ELEMENTARY SCHOOL. INSTALL FIBER PRIOR TO COMPLETION OF THE NEW BUILDING. ROUTE NEW FIBER TO UTILITY POLE NEAREST THE MAIN DRIVE. COIL 450 FEET OF SINGLE-MODE ENTRANCE FIBER. PROVIDE AERIAL SPLICE CAPSULE AND SPLICE ENTRANCE FIBER TO BACKBONE FIBER. UPON COMPLETION OF NEW BUILDING ROUTE ENTRANCE FIBER INTO FACILITY AND TERMINATE.
 - REPLACE AS INSTALLED.
 - PROVIDE 1400 FOOT LOOP AT END OF KAMAR STREET.



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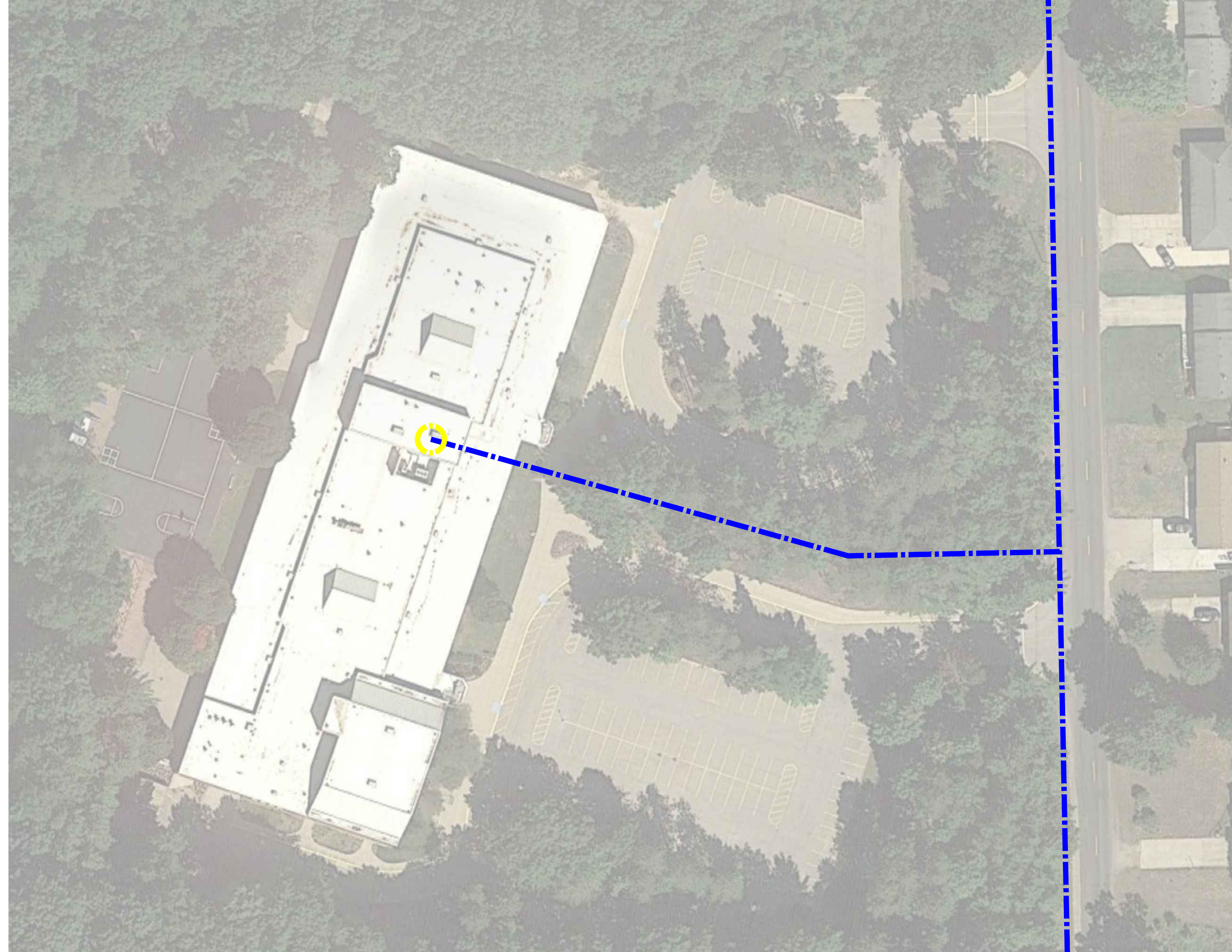
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 Fiber WAN Additions & Replacements
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Great Lakes ES Tech Site Plan

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SYMBOL LEGEND	
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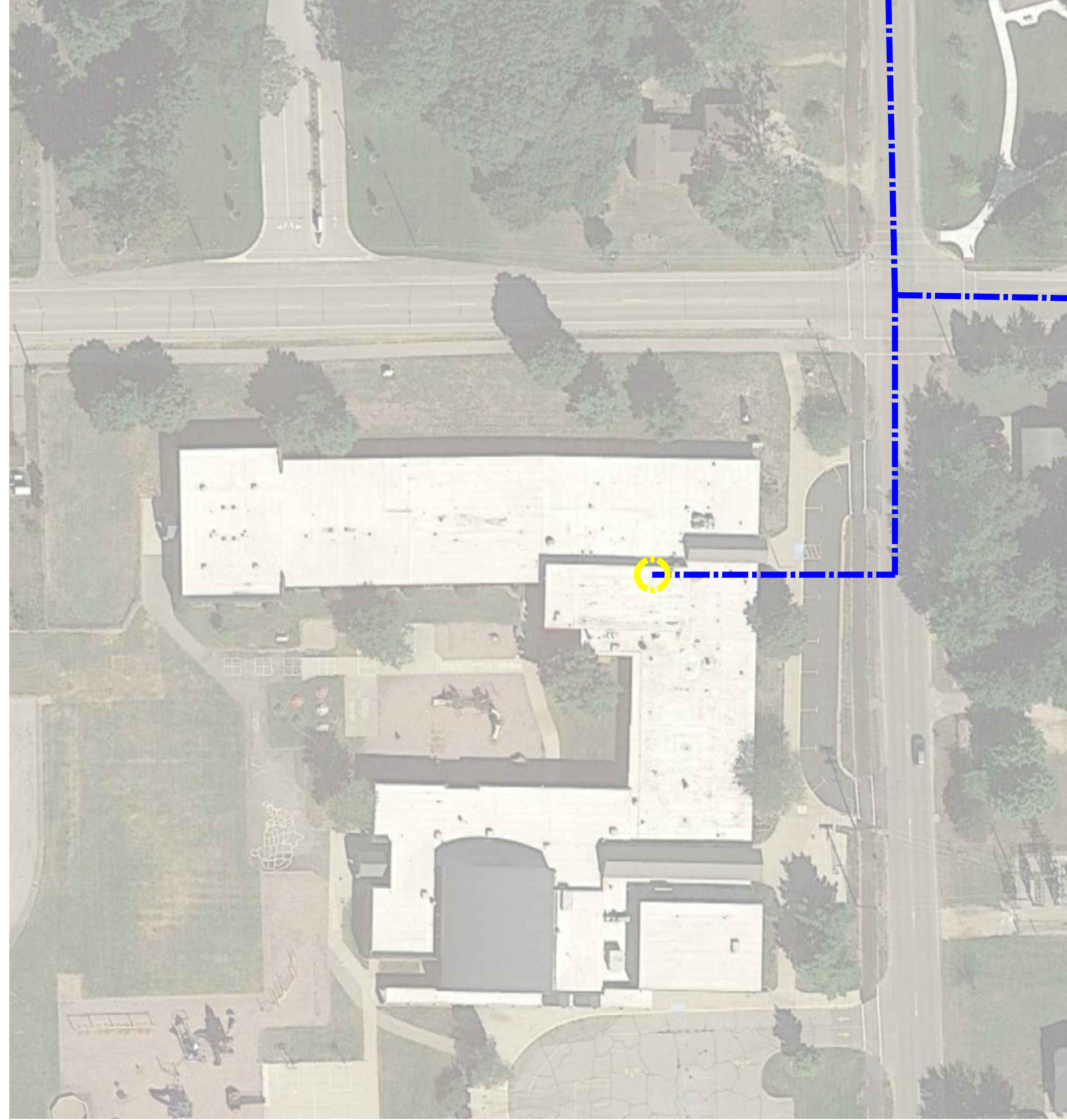
Lakeshore ES Tech Site Plan

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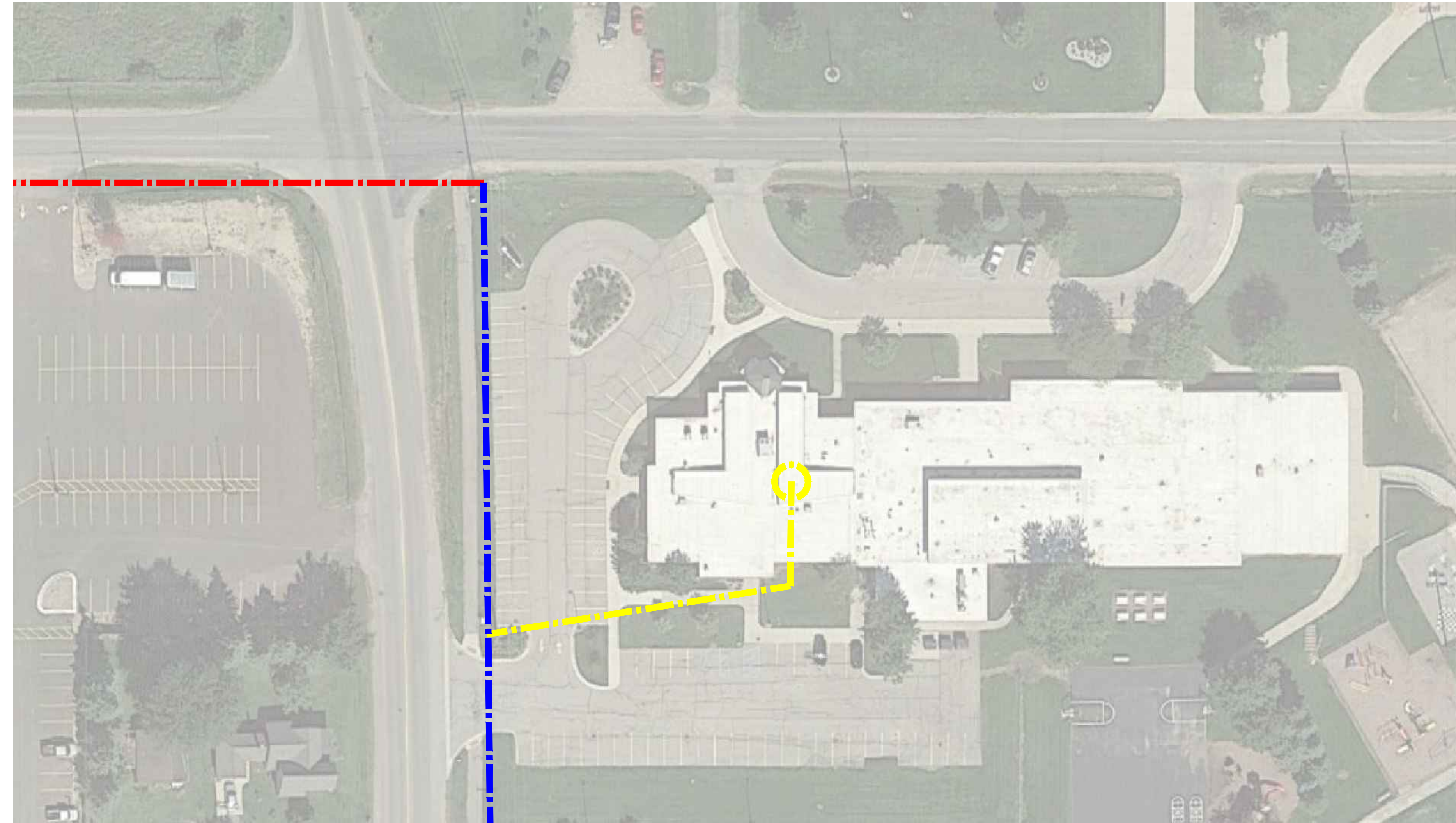
Lake Wood ES Tech Site Plan

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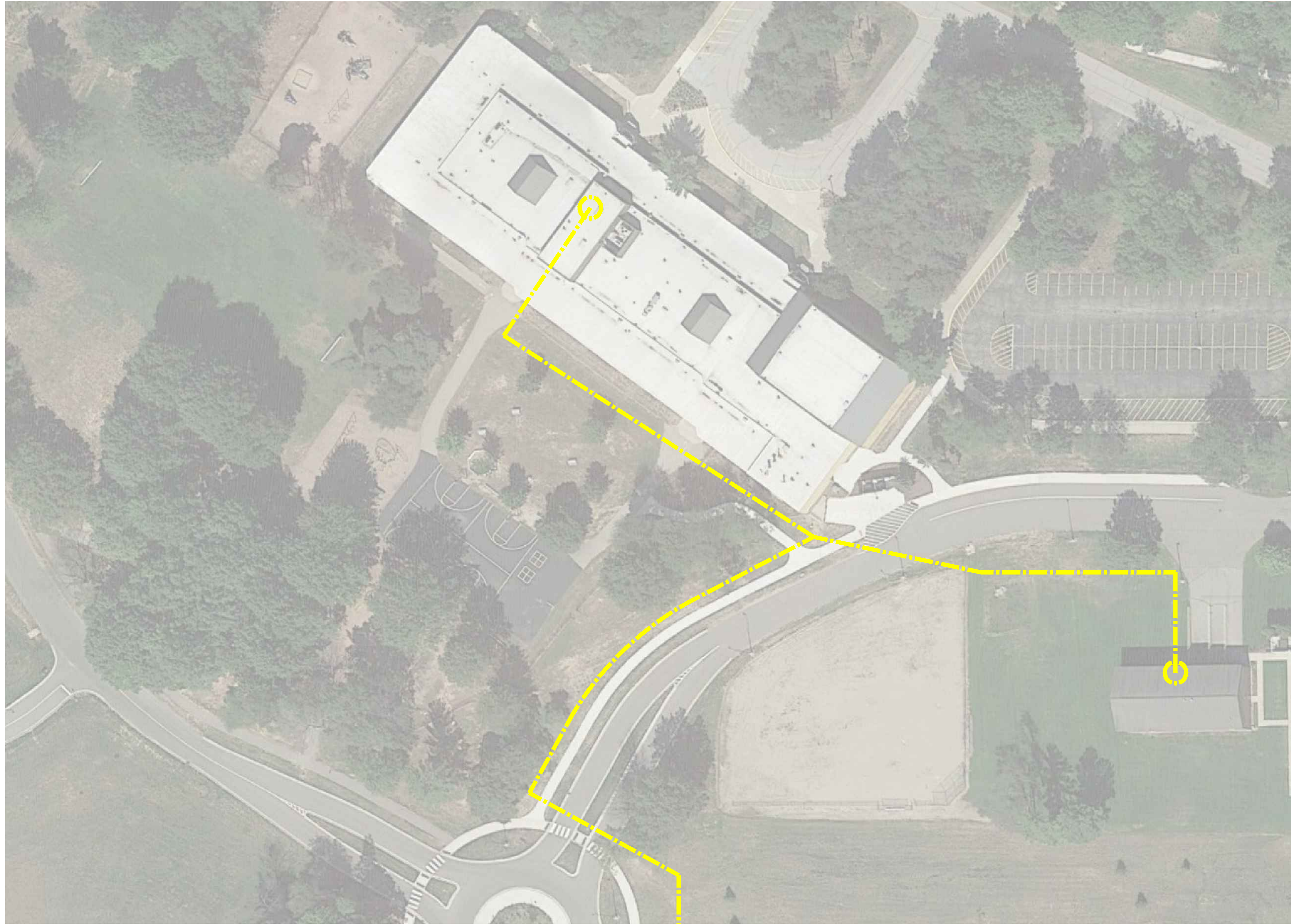


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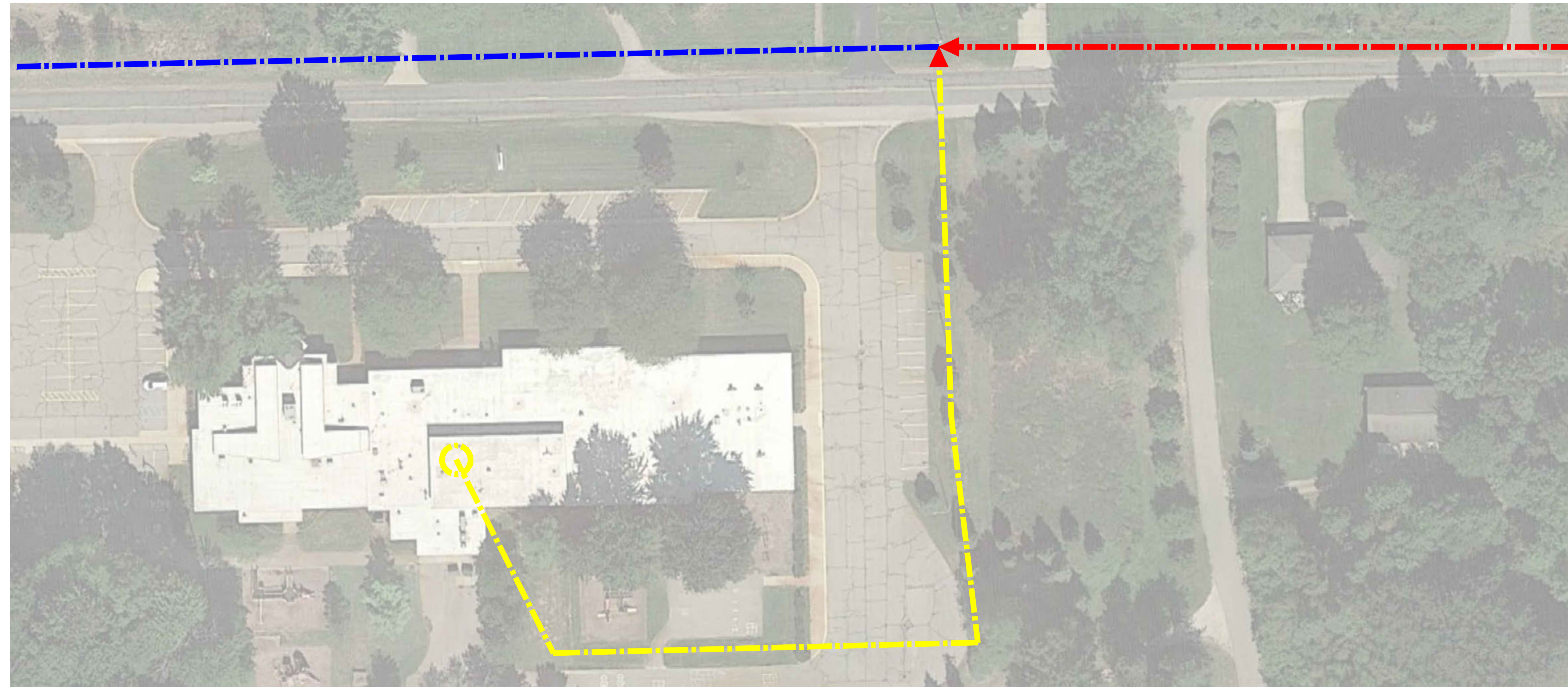


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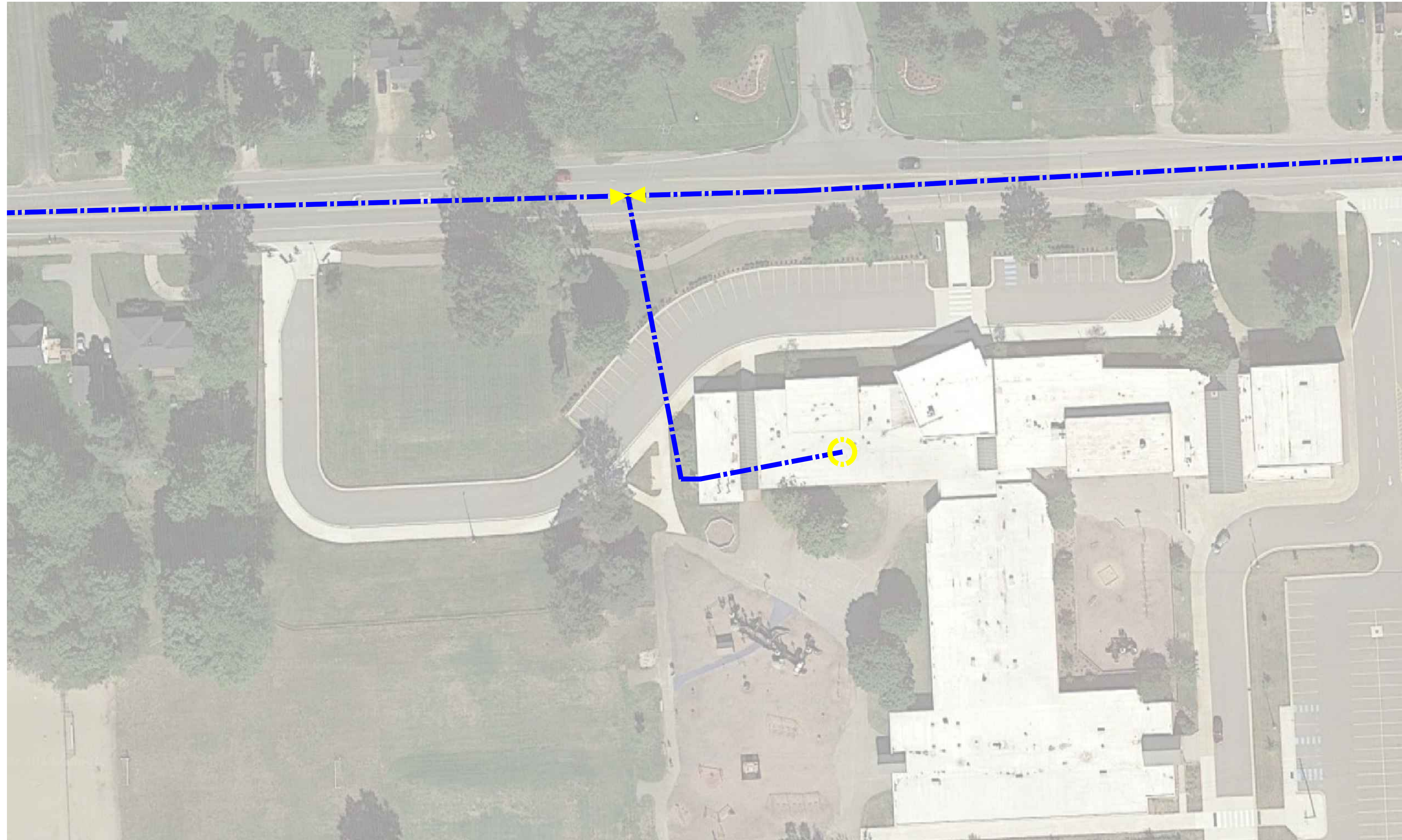
Sheldon Woods ES Tech Site Plan

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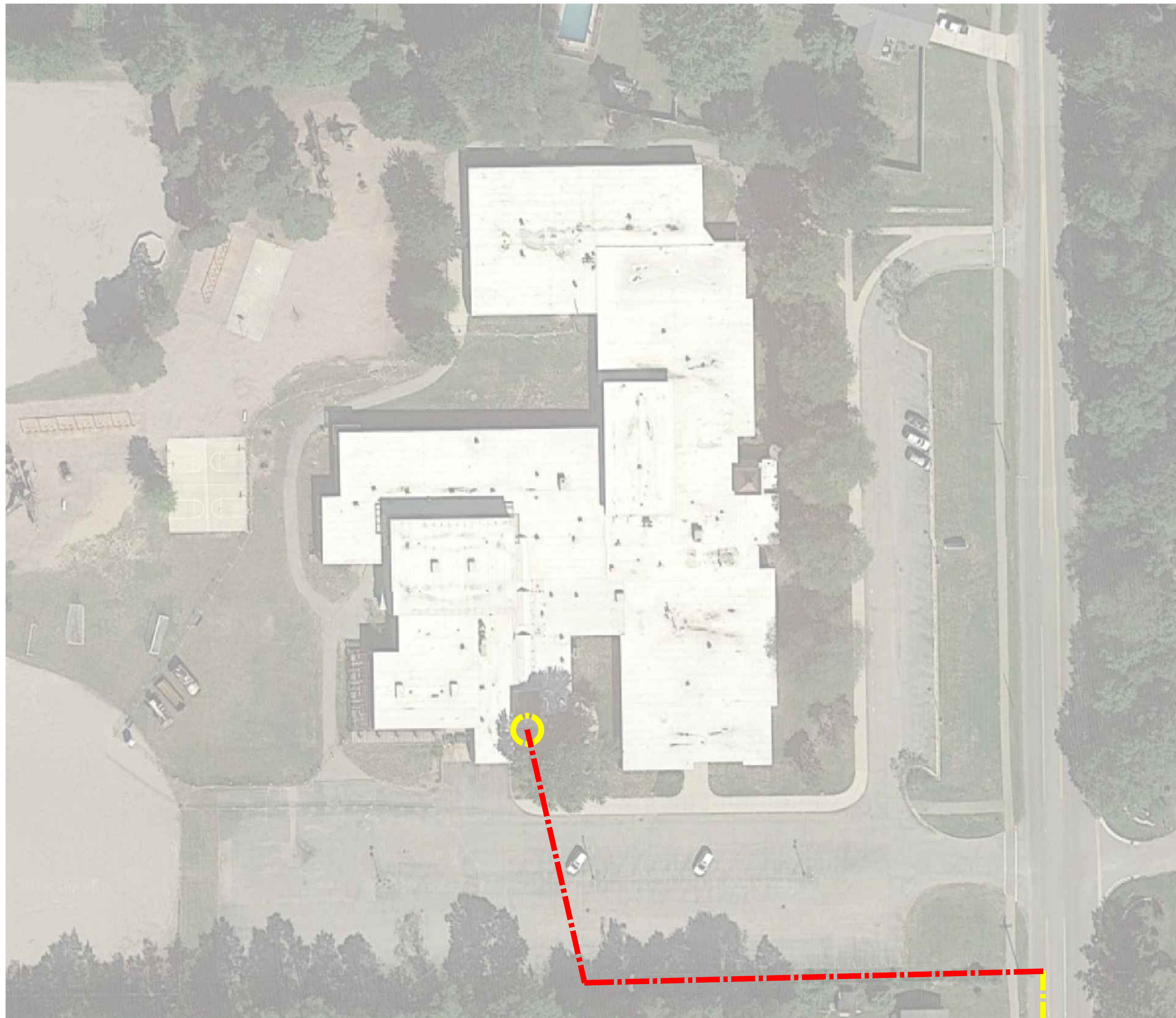
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Waukazoo ES Tech Site Plan

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Woodside ES Tech Site Plan

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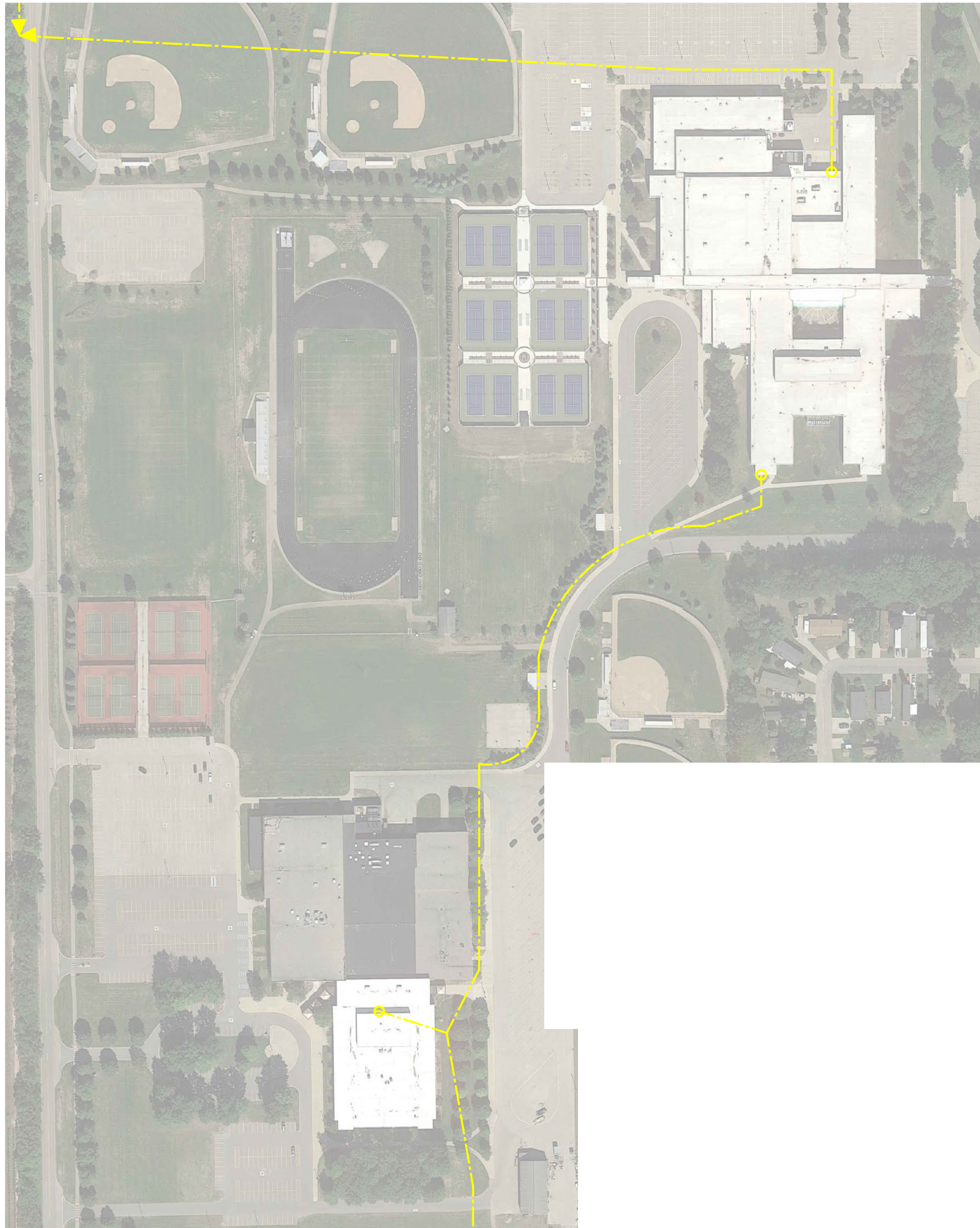


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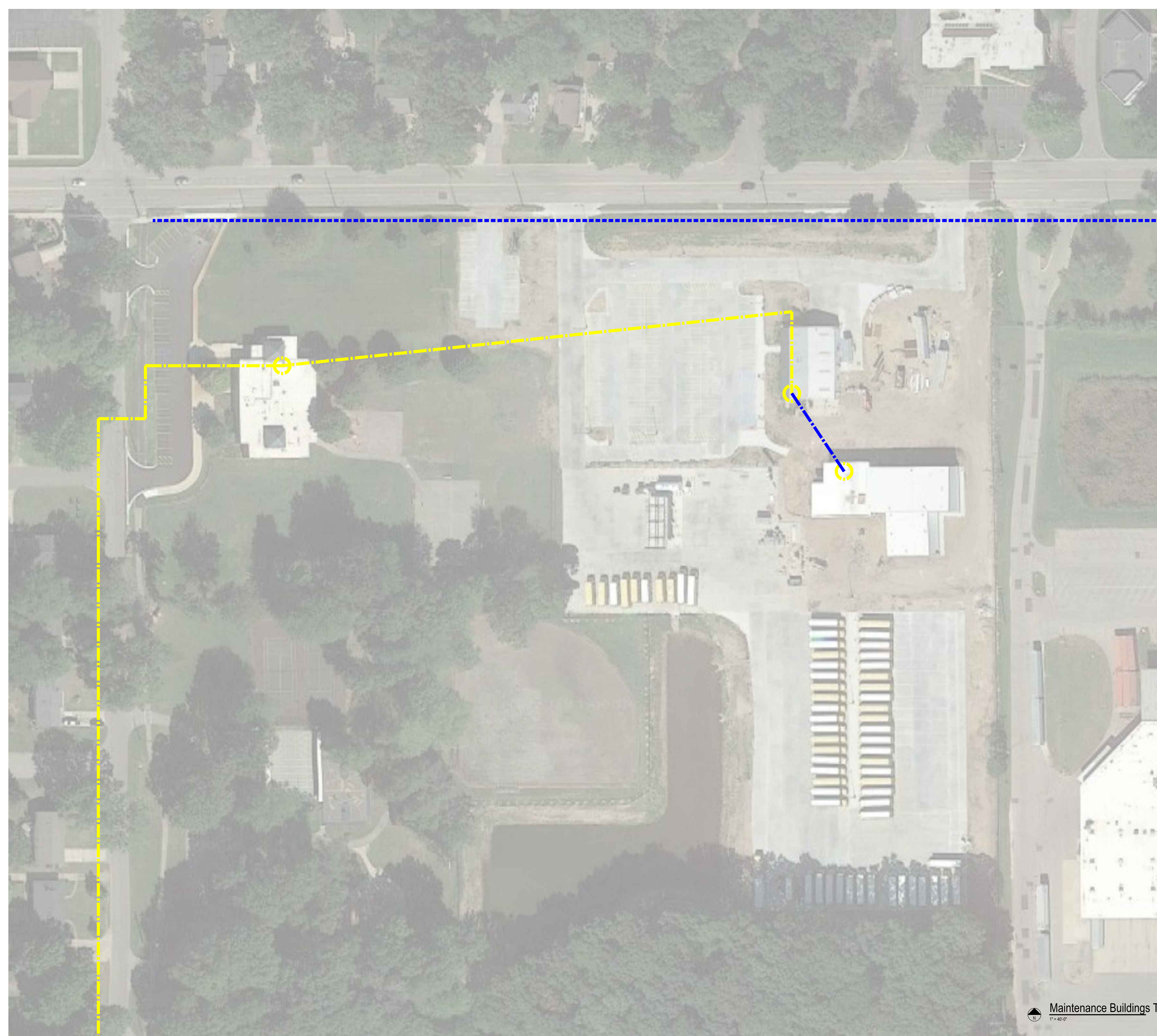


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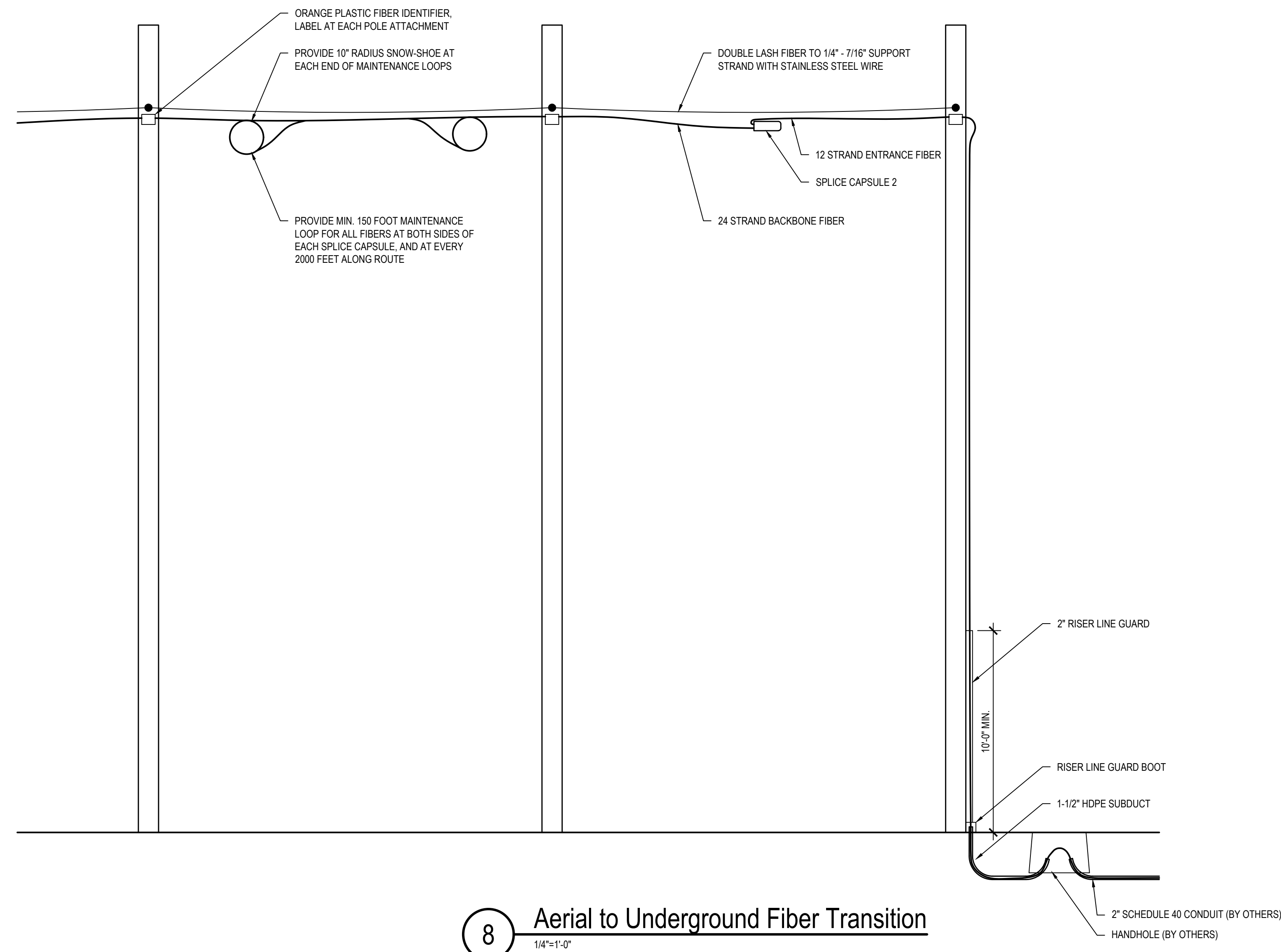
Maintenance Buildings Tech Site Plan
1" = 40'-0"



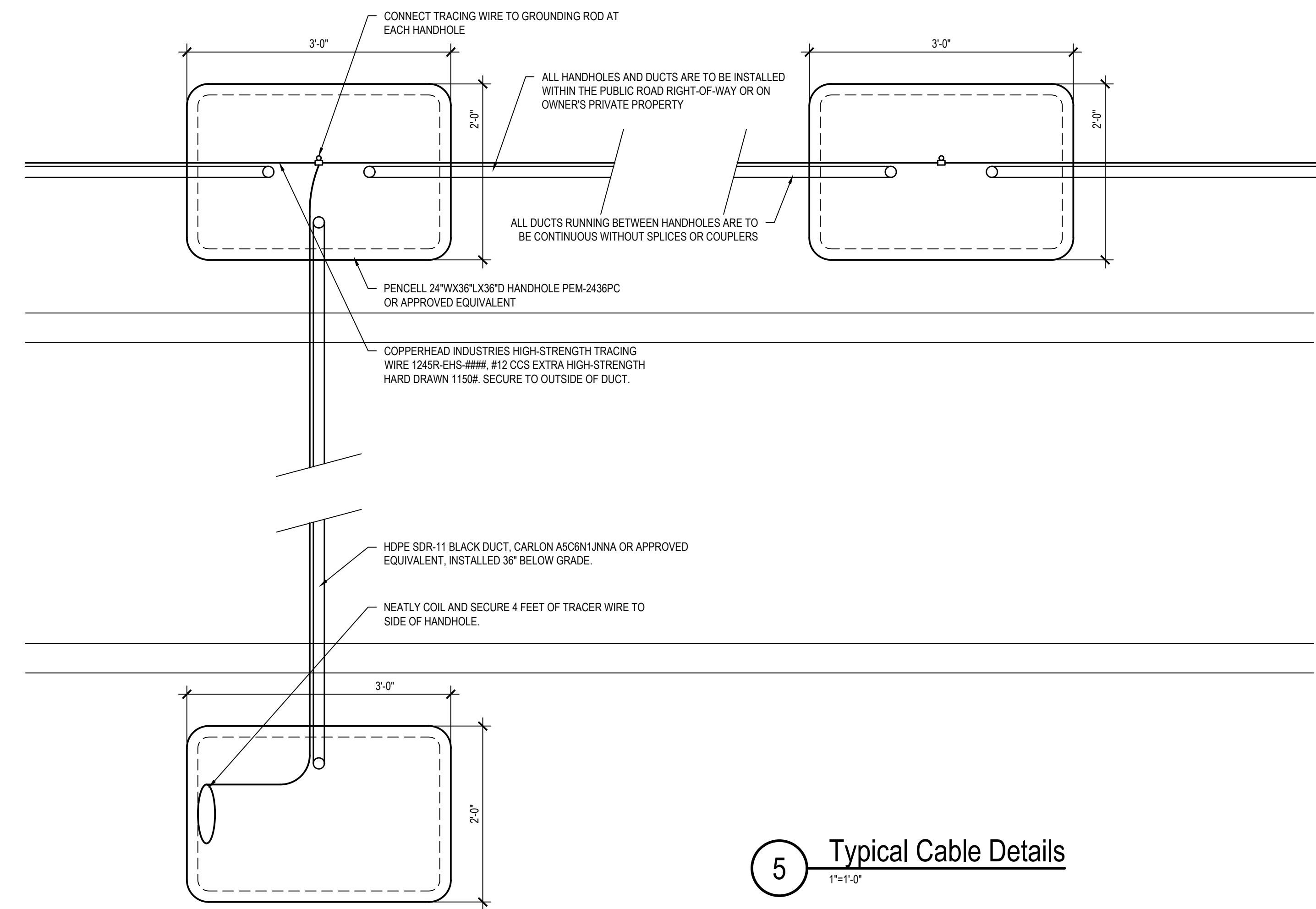
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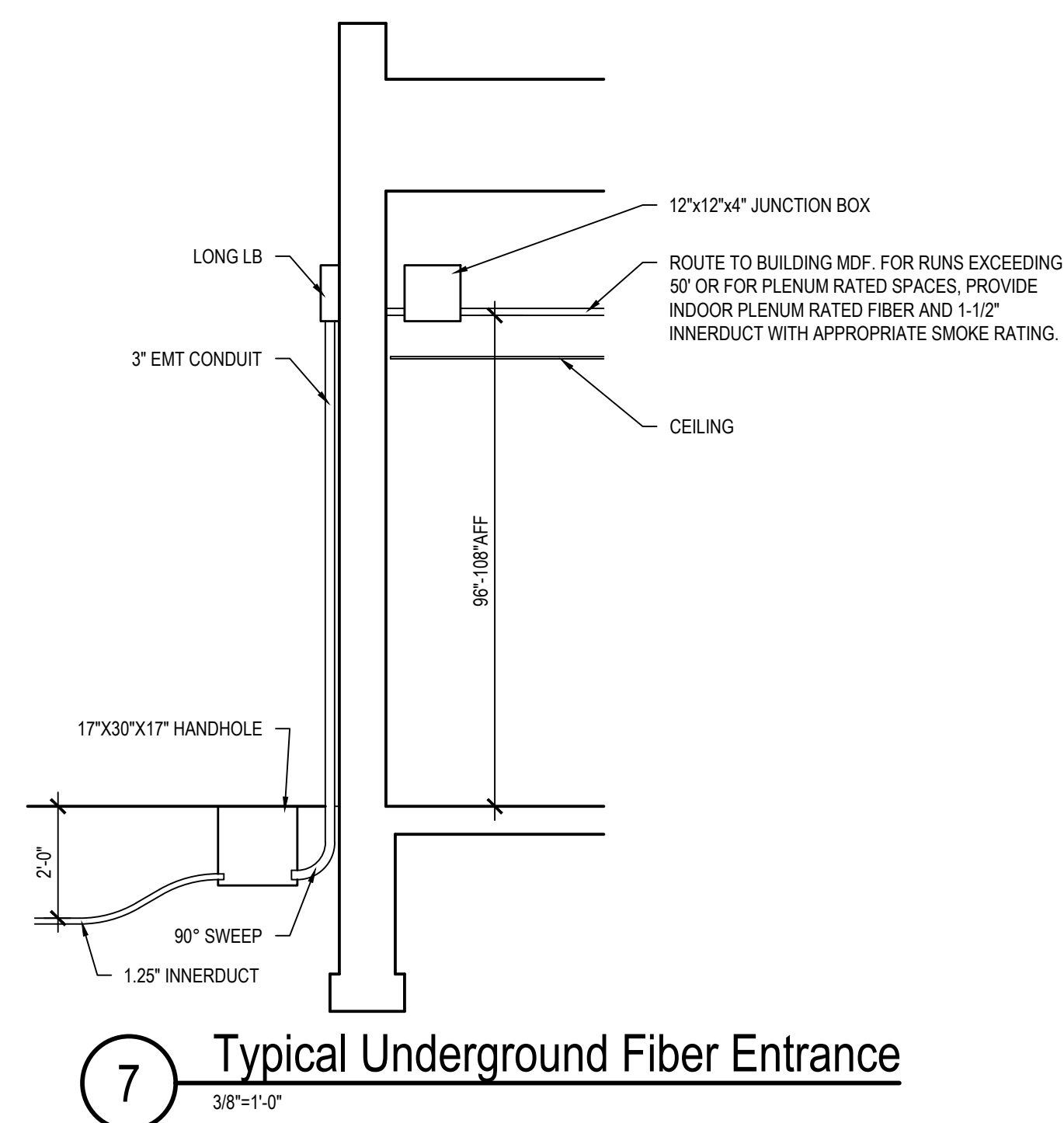
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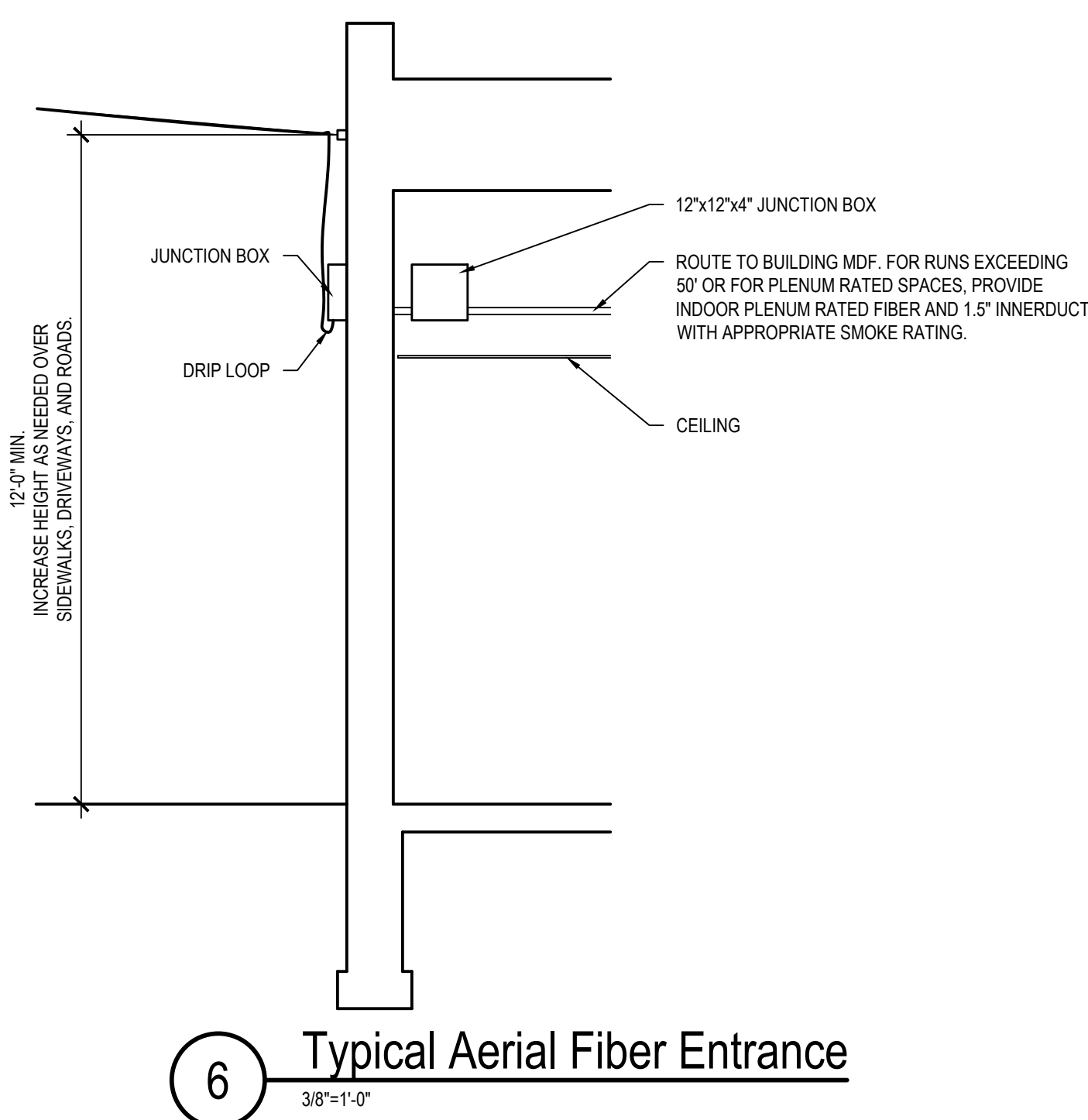
8 Aerial to Underground Fiber Transition
1/4"=1'-0"



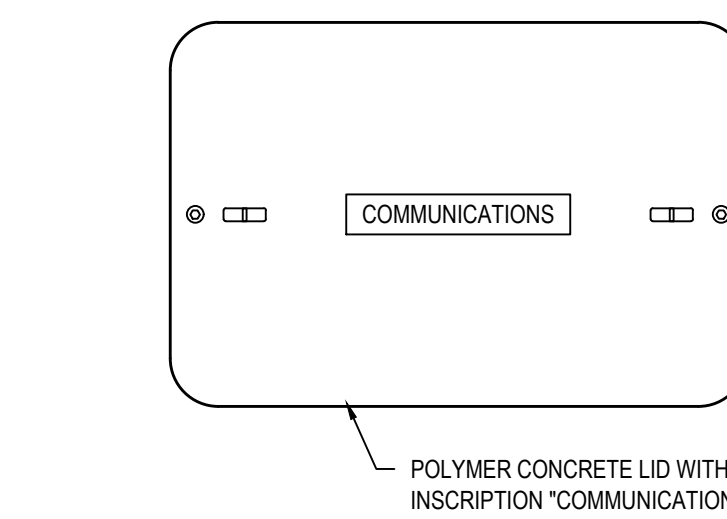
5 Typical Cable Details
1"=1'-0"



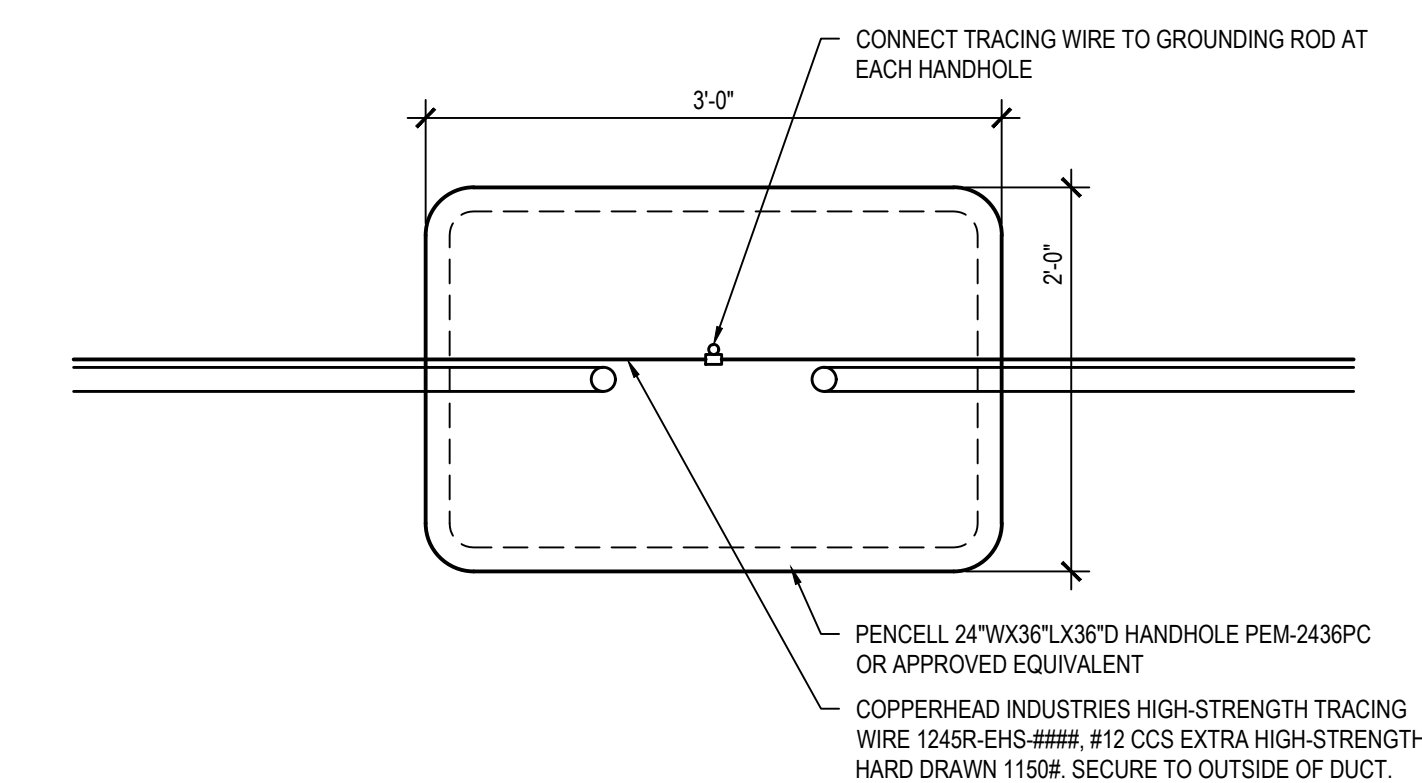
7 Typical Underground Fiber Entrance
3/8"=1'-0"



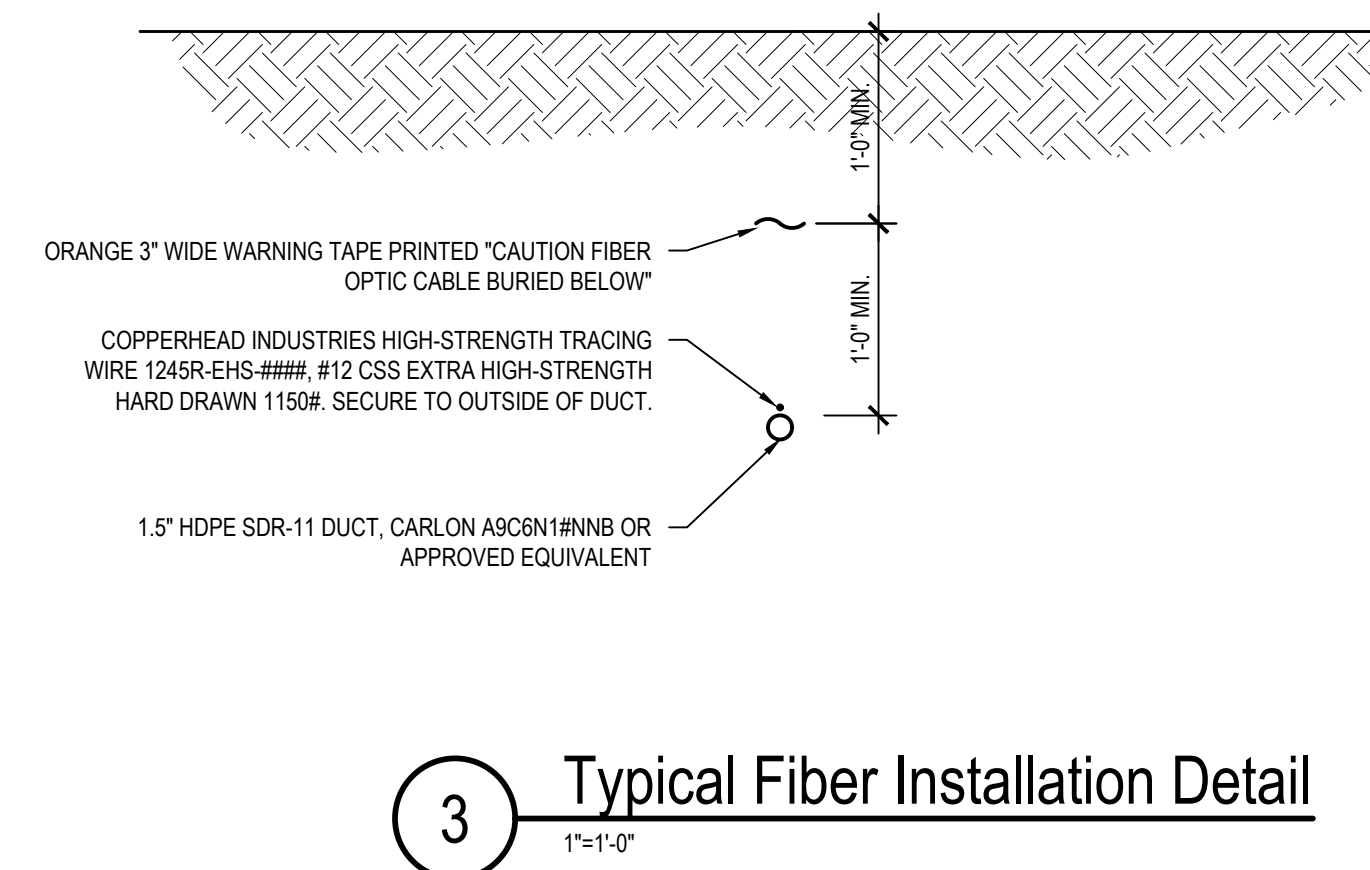
6 Typical Aerial Fiber Entrance
3/8"=1'-0"



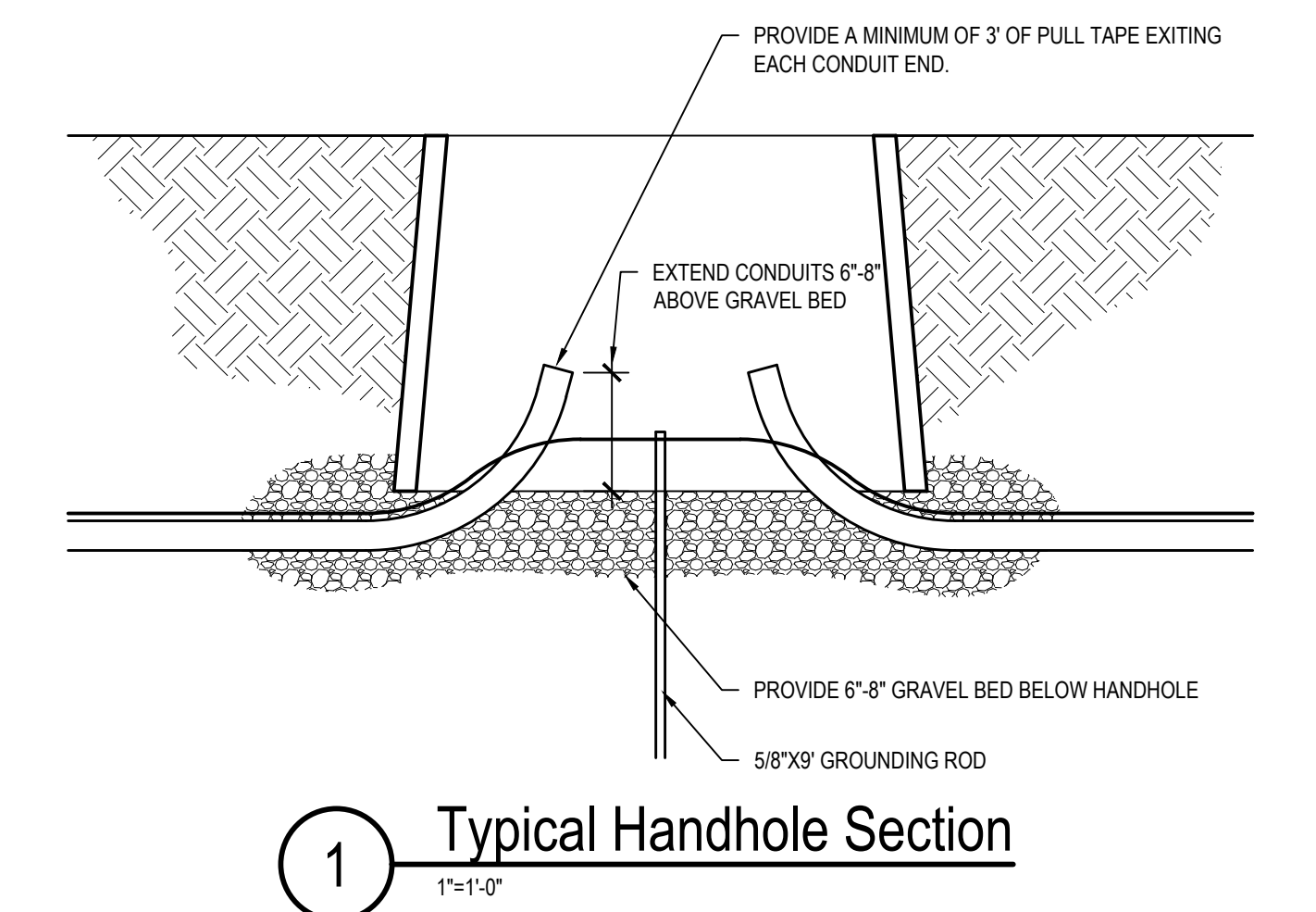
4 Handhole Cover
1"=1'-0"



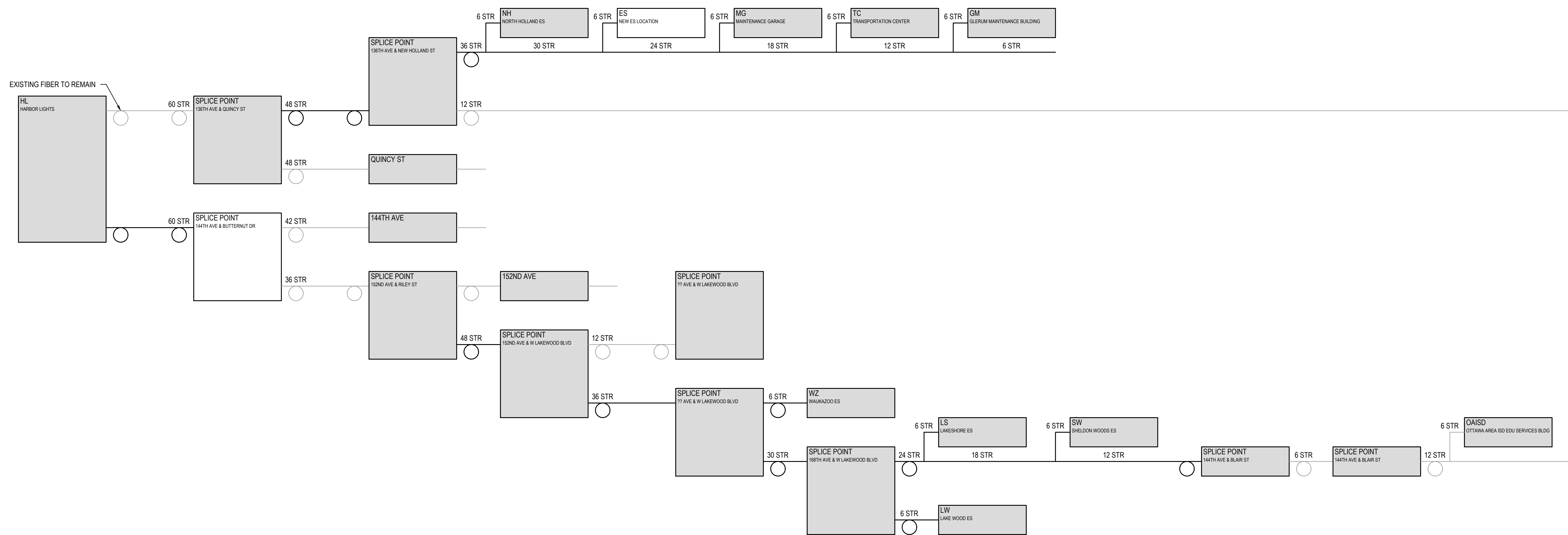
2 Typical Handhole Plan
1"=1'-0"



3 Typical Fiber Installation Detail
1"=1'-0"



1 Typical Handhole Section
1"=1'-0"



Fiber WAN Riser
NTS

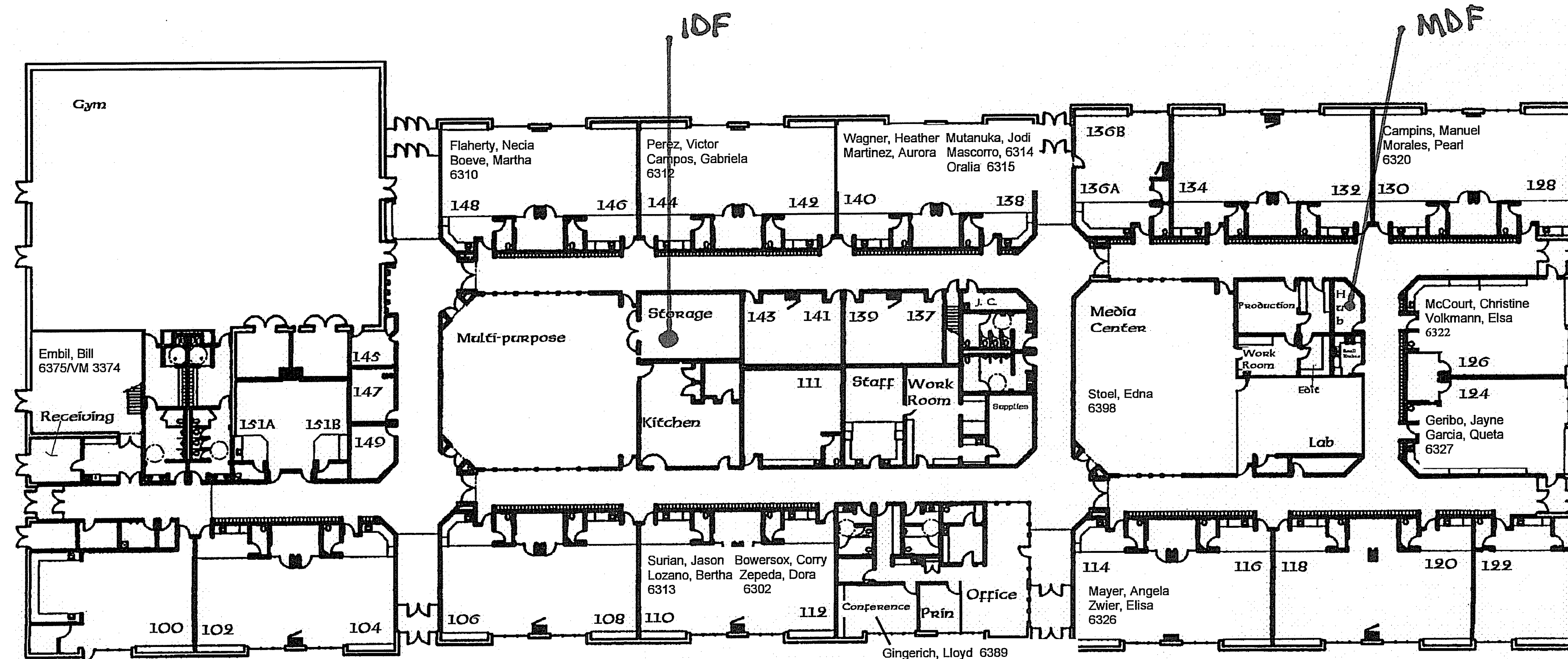
West Ottawa Public Schools
Fiber WAN Additions & Replacements
Holland, MI

Fiber WAN Riser

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2019-10-23	2019-11-15 FOR BIDS

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PROJECT NO.	1802-0000

SHEET NO.
TS115



← North

Square footage: 67,098

Great Lakes Elementary
 3200 N 152nd Ave
 Holland, MI 49424
 616.738.6300

Office: Steinfort, Julie 6301
 Silva, Rosa 6300

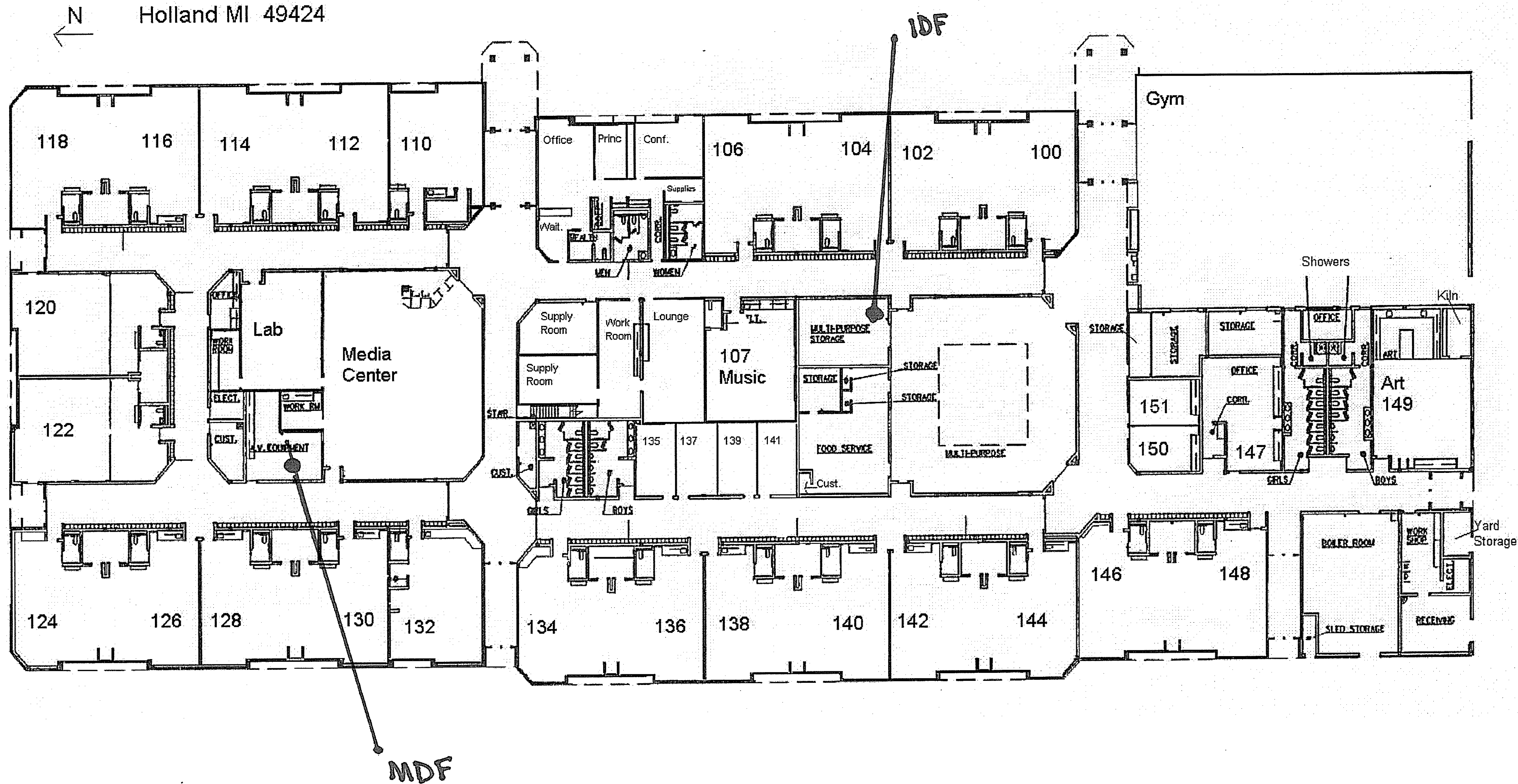
West Ottawa Public Schools
 Fiber WAN Additions & Replacements
 Holland, MI
 Great Lakes ES Tech Plan - Composite

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EMCNWW
PROJECT NO.
1802-0000
SHEET NO.

T101

Lakeshore Elementary
3765 N 168th Ave.
Holland MI 49424

4/13/07

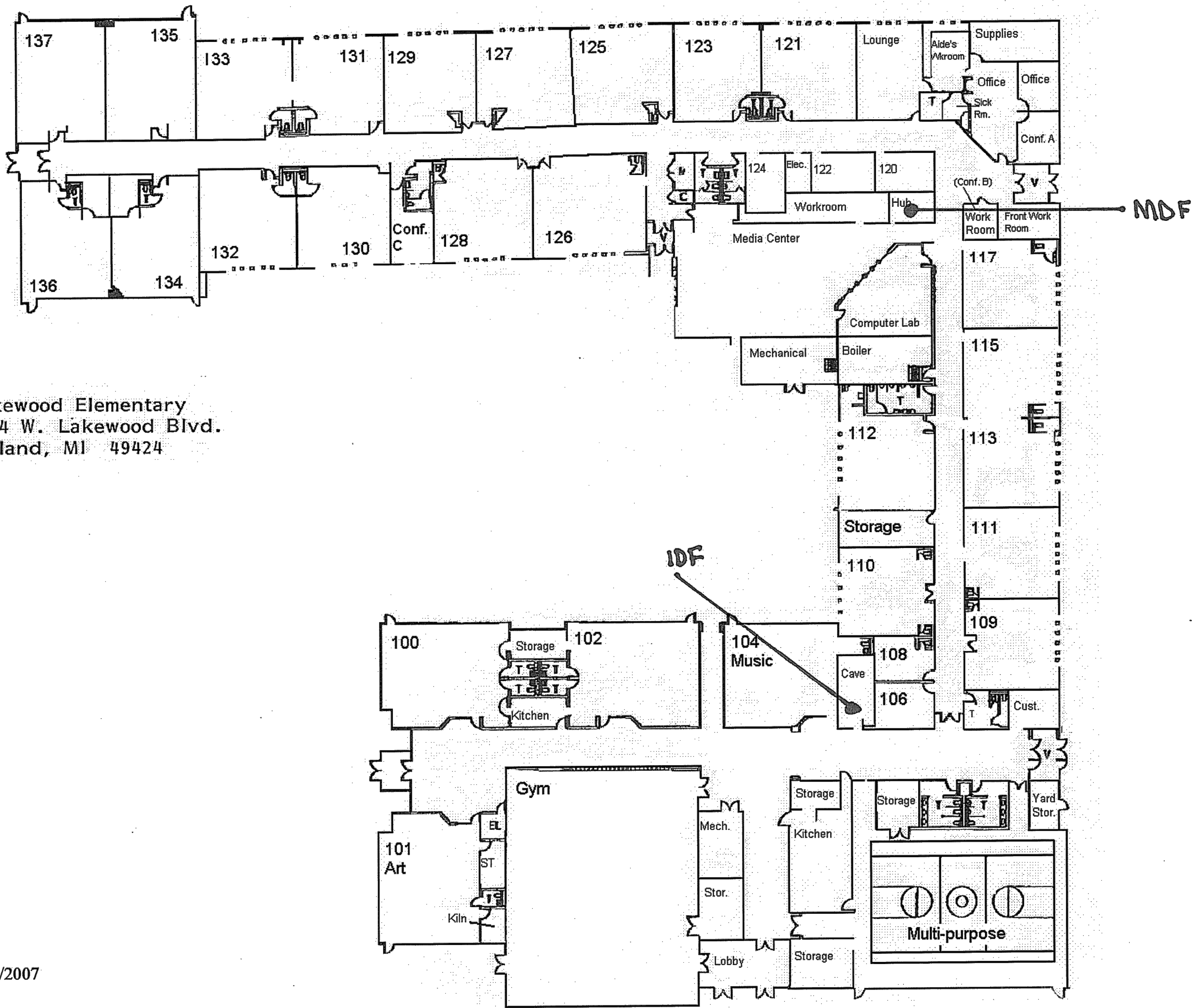


West Ottawa Public Schools
Fiber WAN Additions & Replacements
Holland, MI

Lakeshore ES Tech Plan - Composite

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1802-0000
SHEET NO.

T102

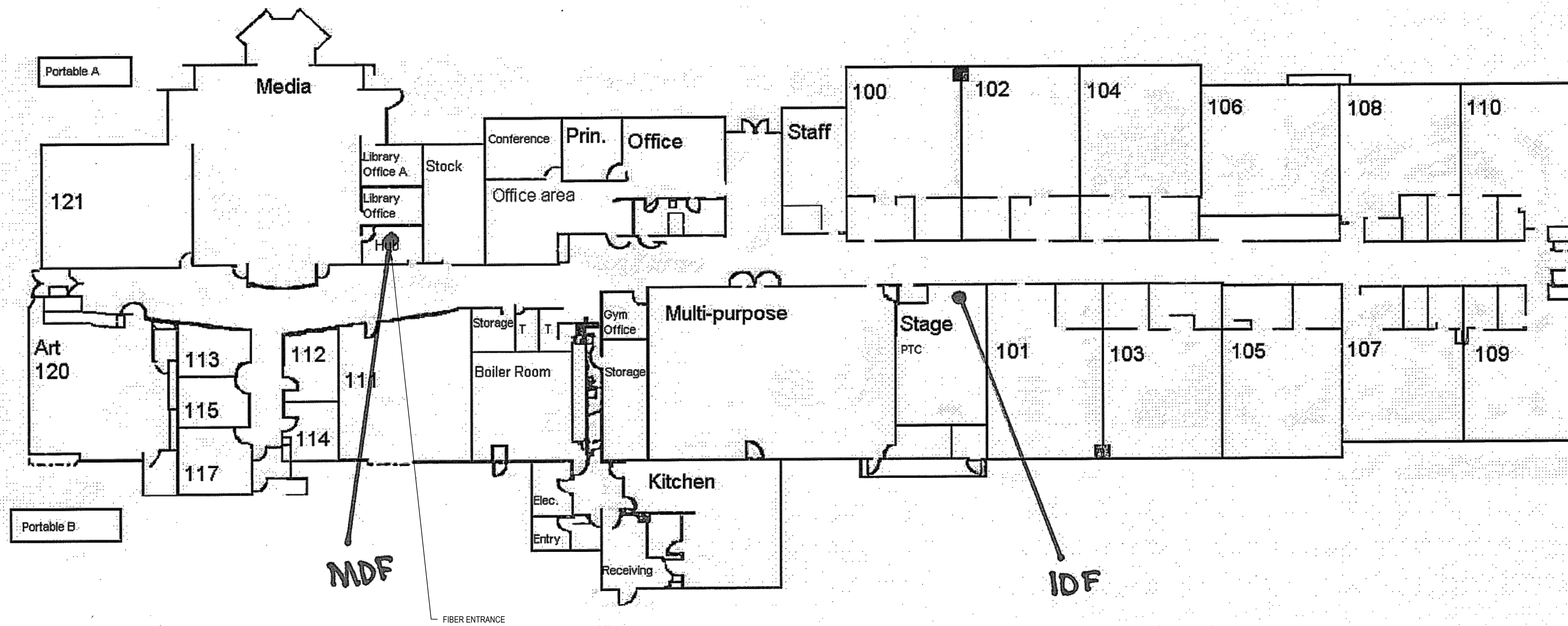


Lakewood Elementary
 2134 W. Lakewood Blvd.
 Holland, MI 49424

4/13/2007

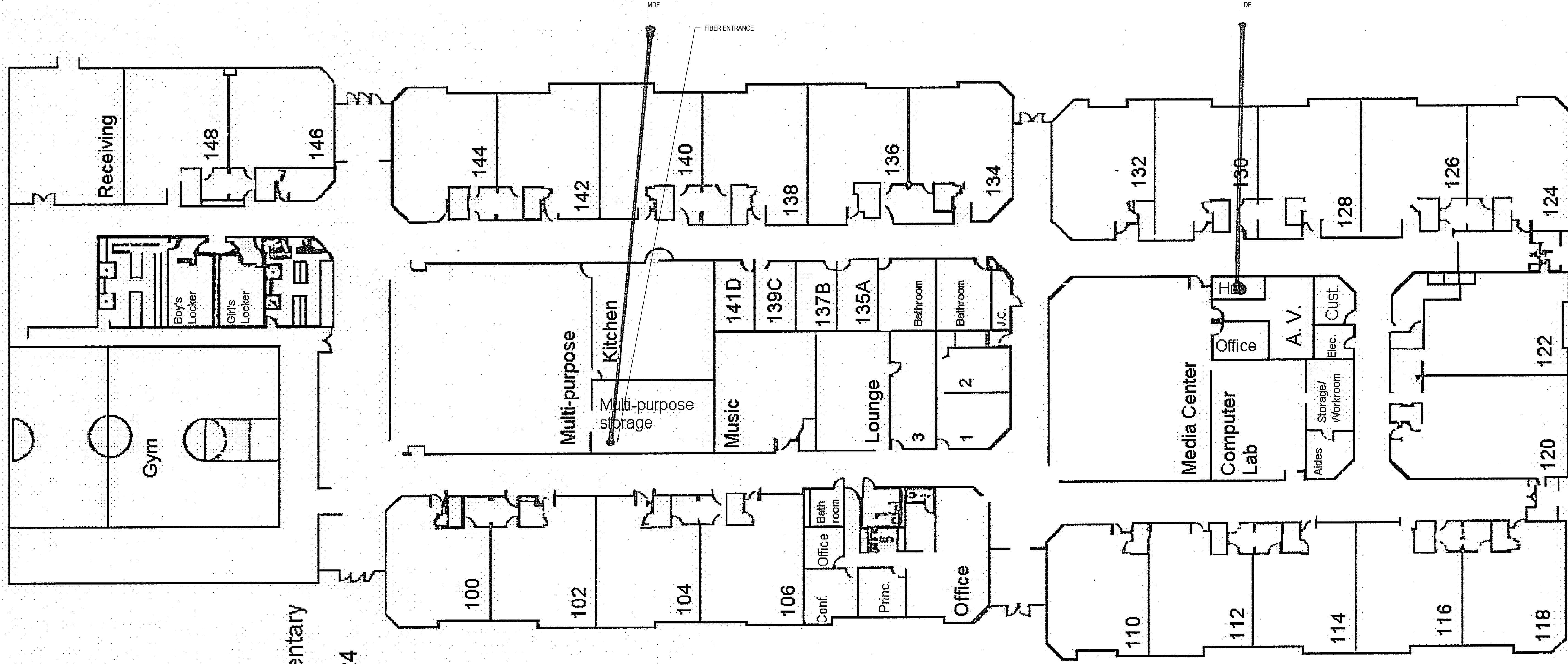
11/19/2007

North Holland Elementary
11946 New Holland St.
Holland, MI 49424



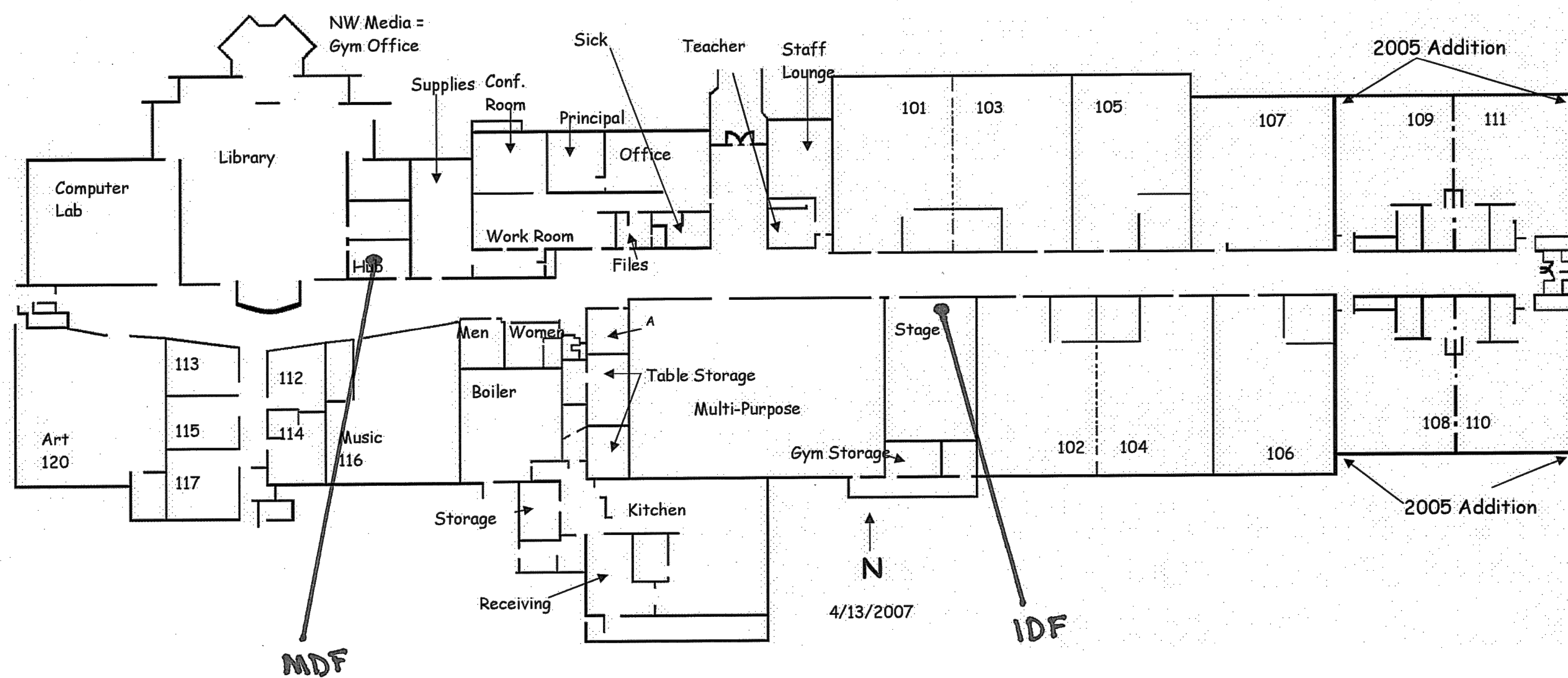
4/13/2007

Pine Creek Elementary
1184 136th Ave.
Holland, MI 49424



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SHEET NO.

Sheldon Woods Elementary
 15050 Blair St.
 West Olive, MI 49460

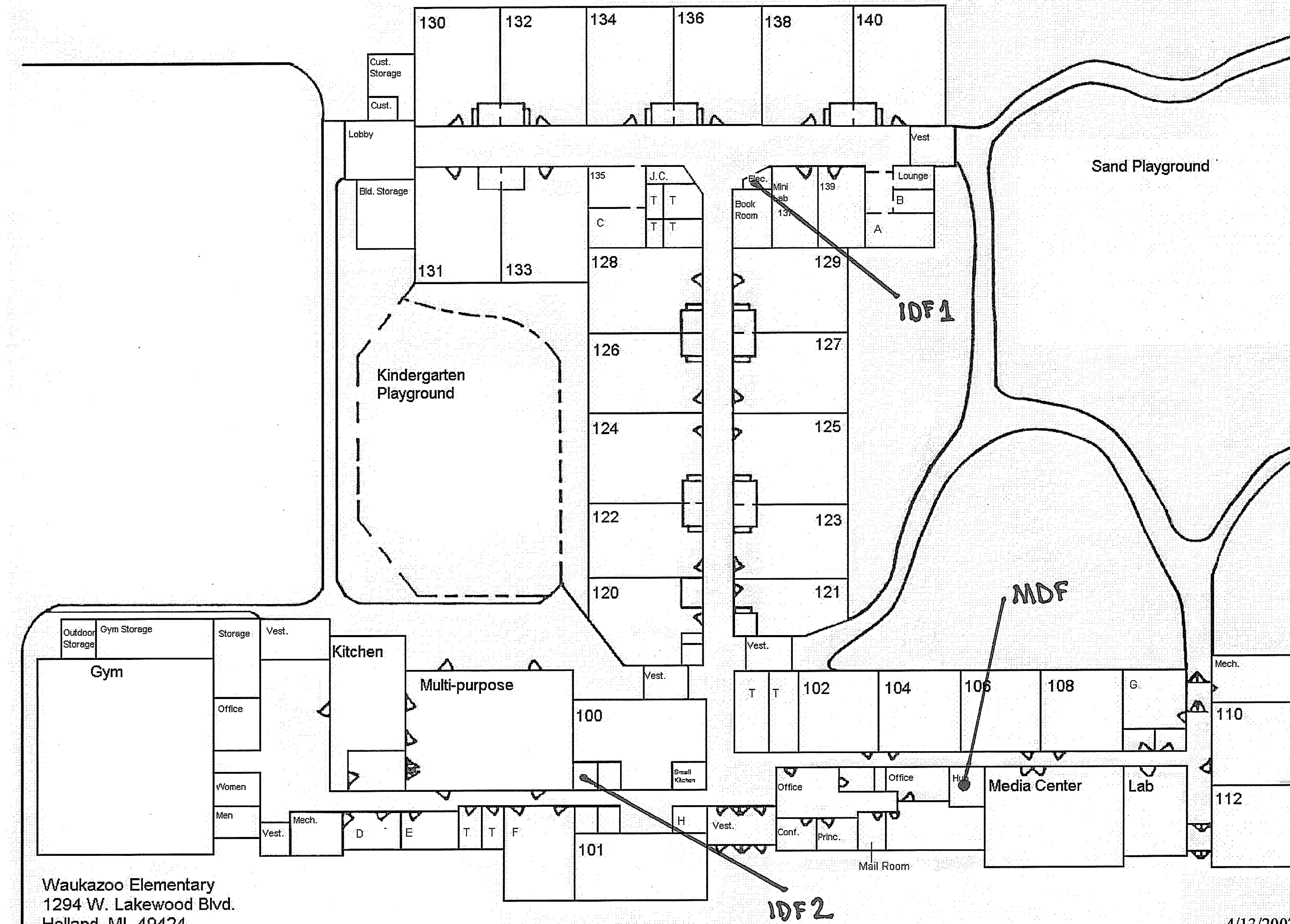


West Ottawa Public Schools
 Fiber WAN Additions & Replacements
 Holland, MI
 Sheldon Woods ES Tech Plan - Composite

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 2019-10-23 REVIEW
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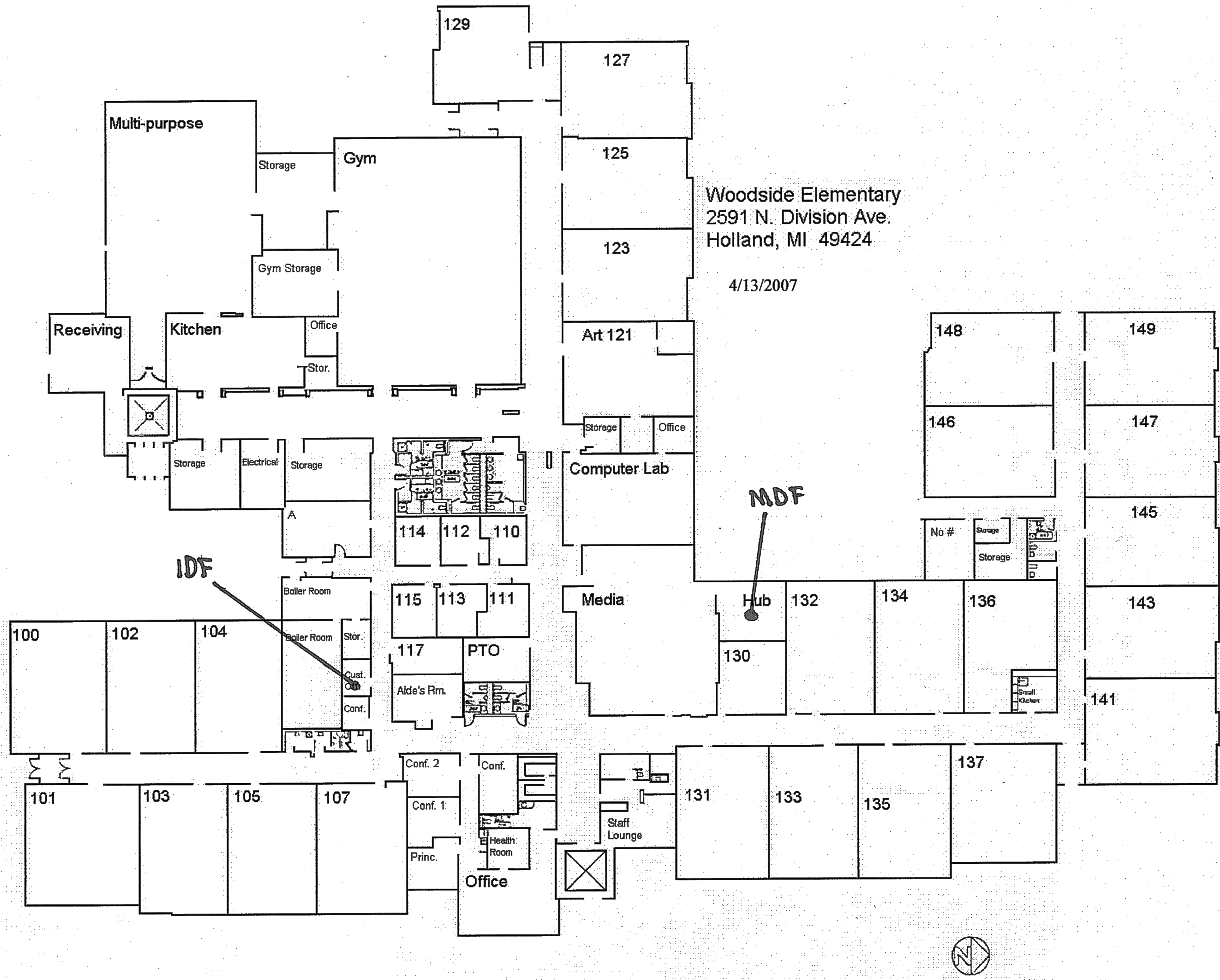
DRAWN BY
 EMC/NWW
 PROJECT NO.
 1802-0000
 SHEET NO.

T106



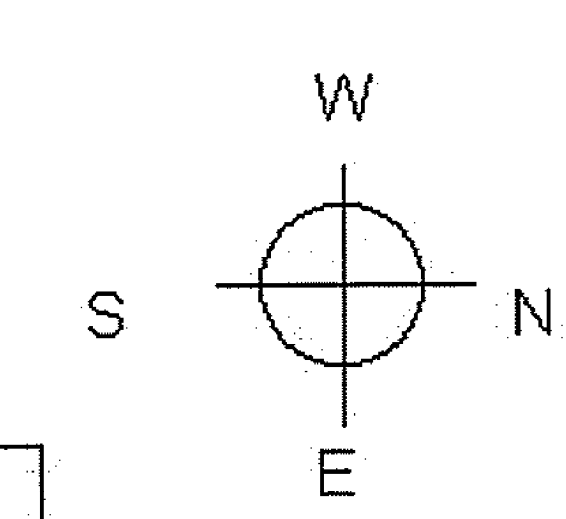
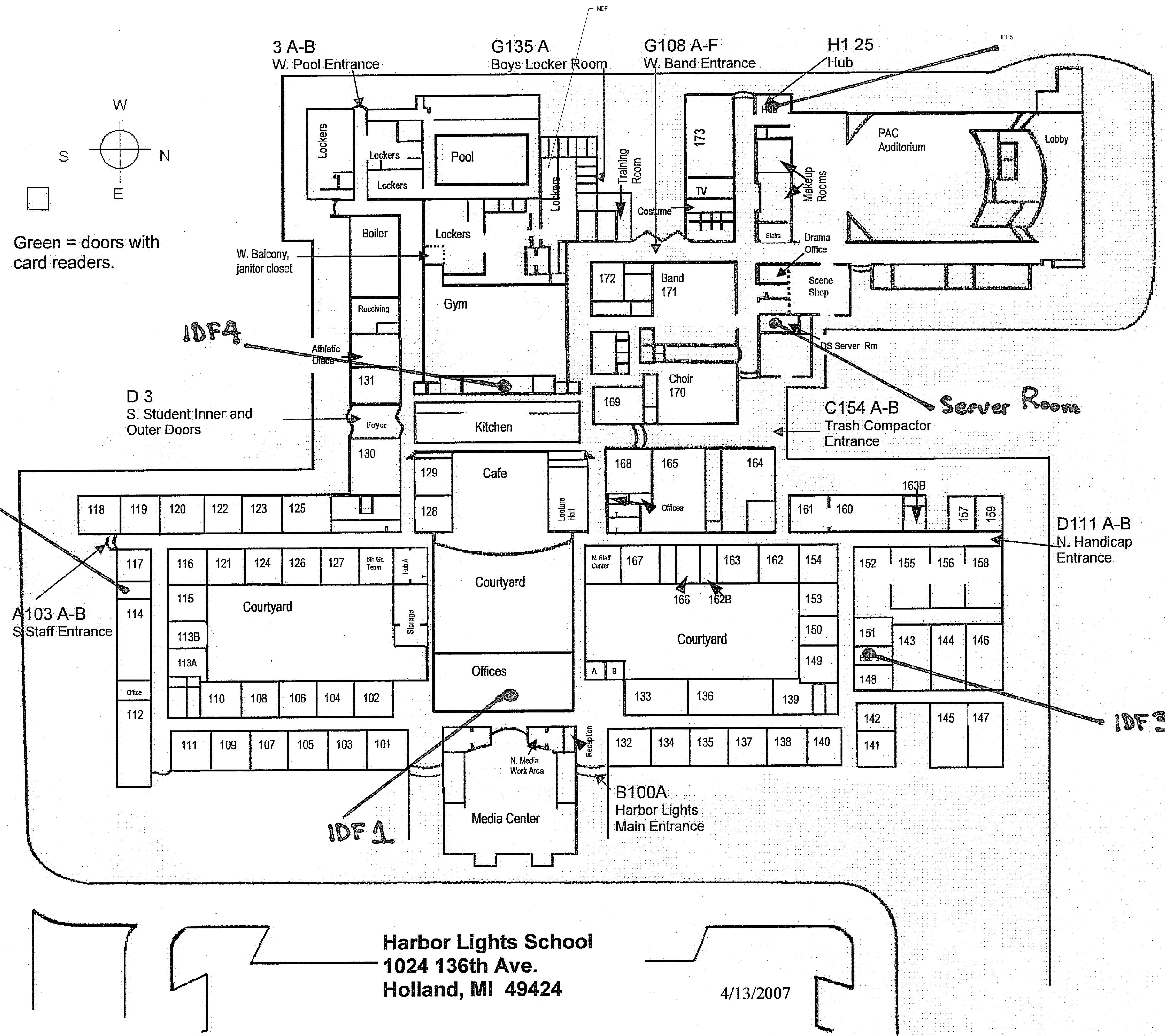
Waukazoo Elementary
 1294 W. Lakewood Blvd.
 Holland, MI 49424
 616.786.1800

4/13/2007



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2019-11-15 FOR BIDS

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SHEET NO.	T108

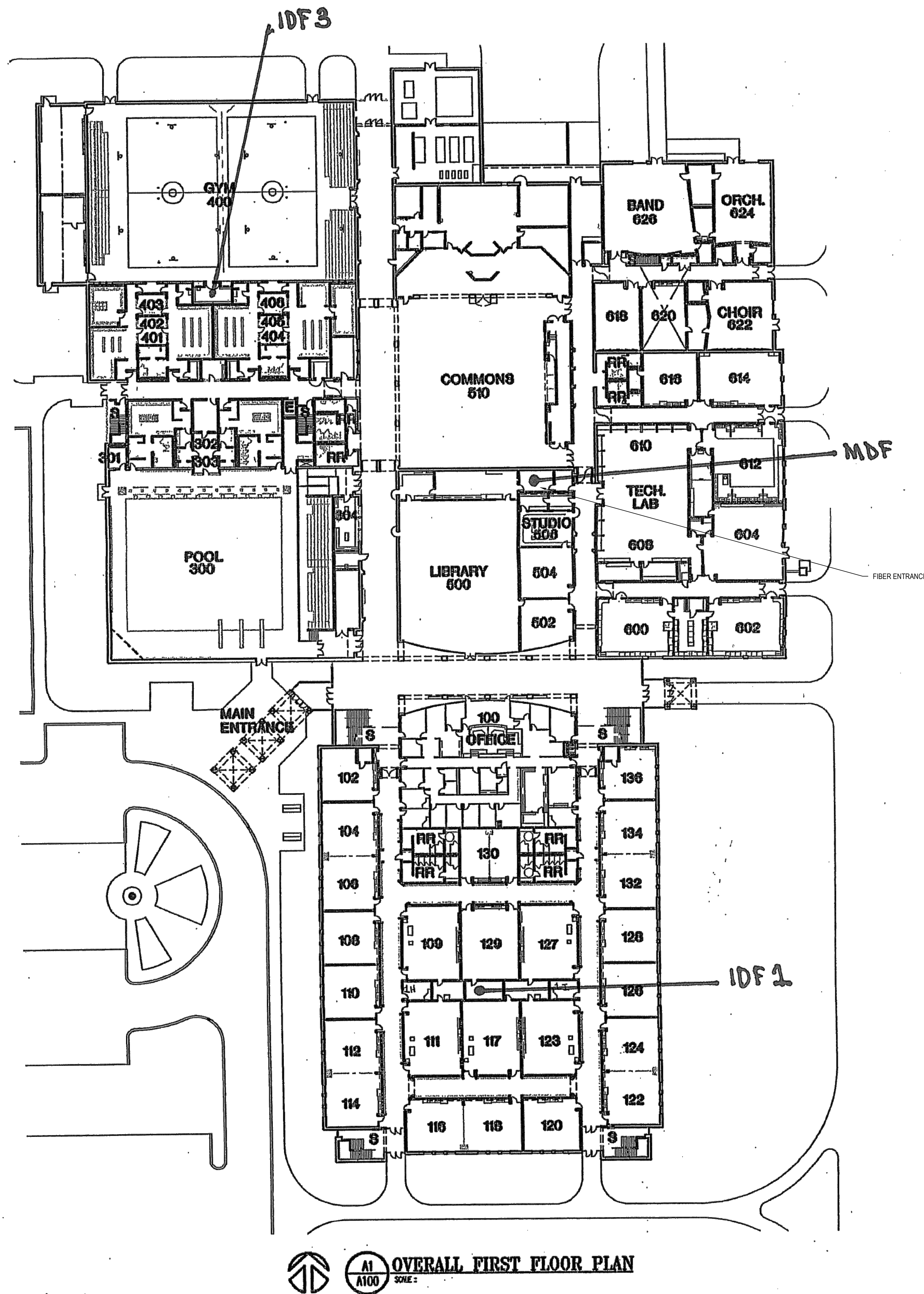


Green = doors with card readers.

Harbor Lights School
1024 136th Ave.
Holland, MI 49424

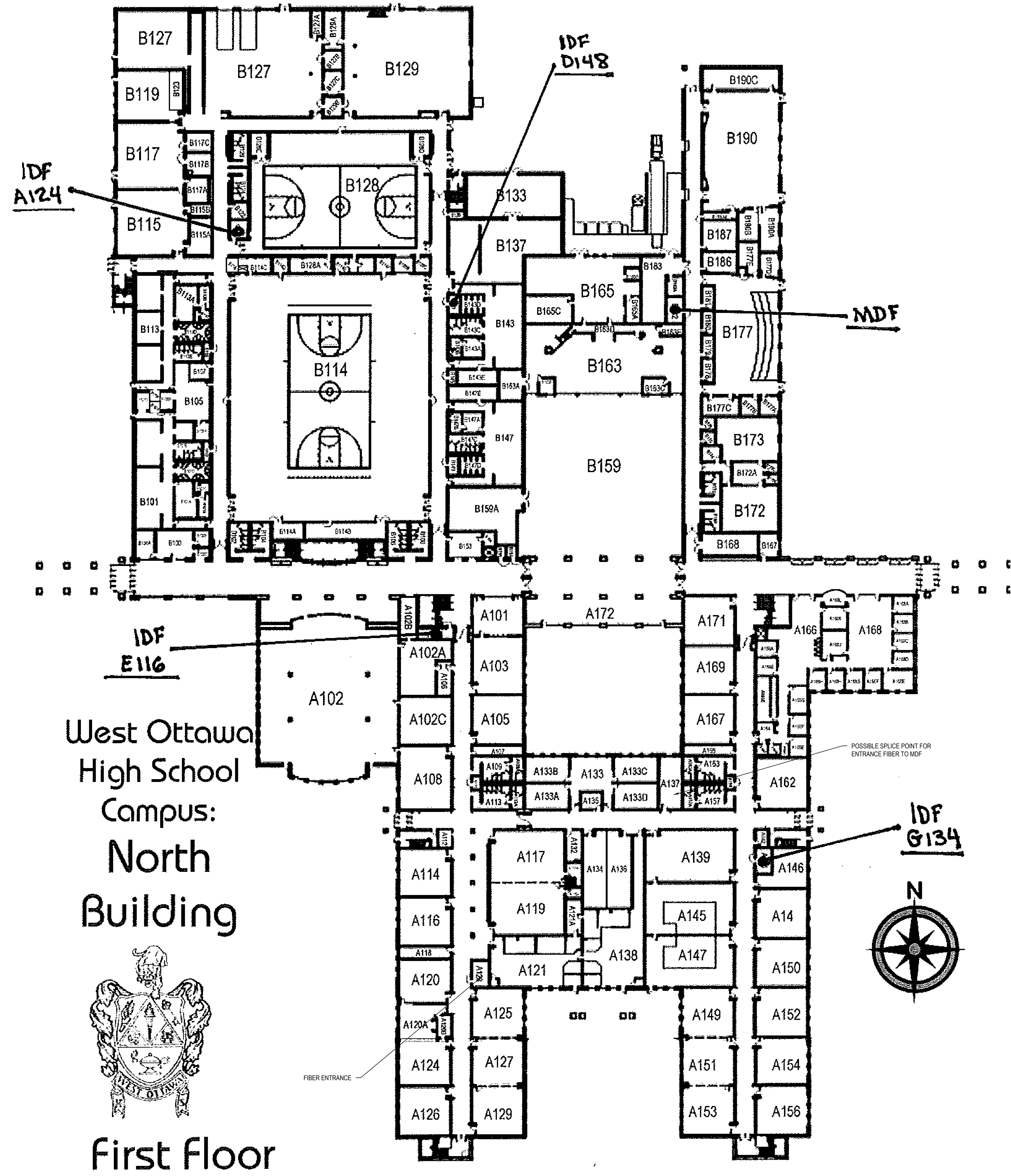
4/13/2007

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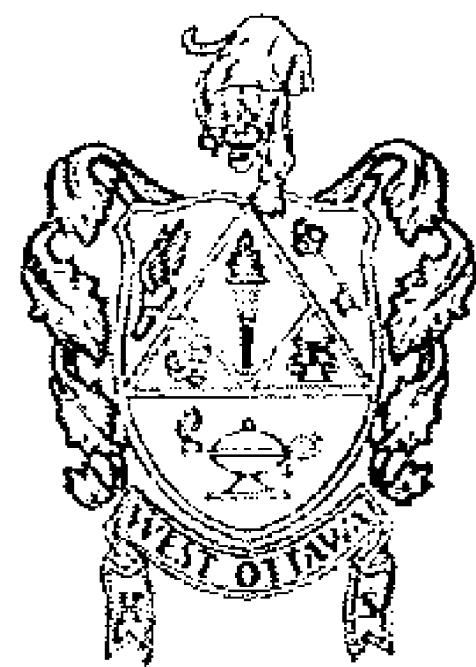



OVERALL FIRST FLOOR PLAN

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West Ottawa
High School
Campus:
North
Building



First Floor



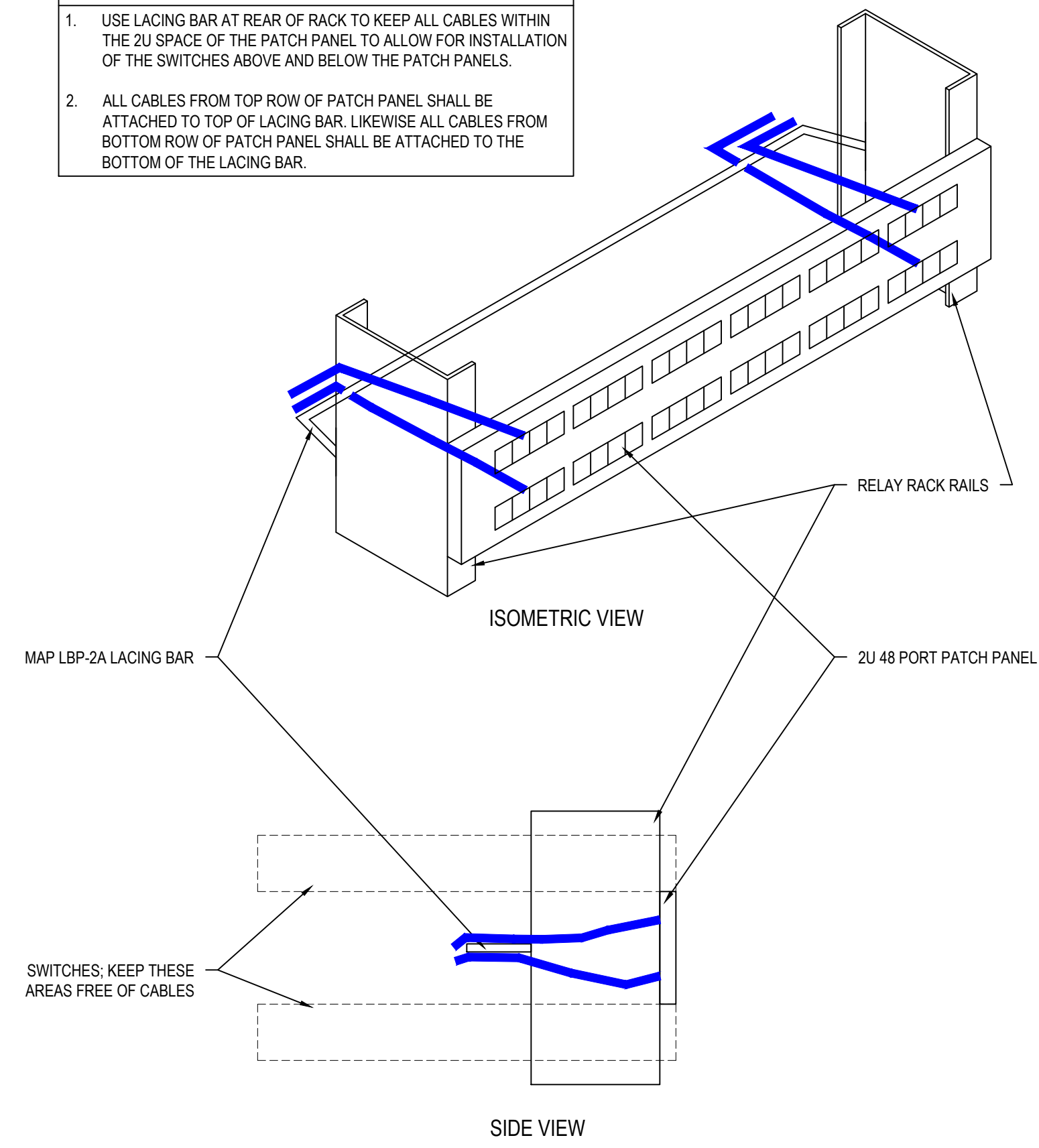
West Ottawa HS North Tech Plan - Composite

1/32" = 1'-0"

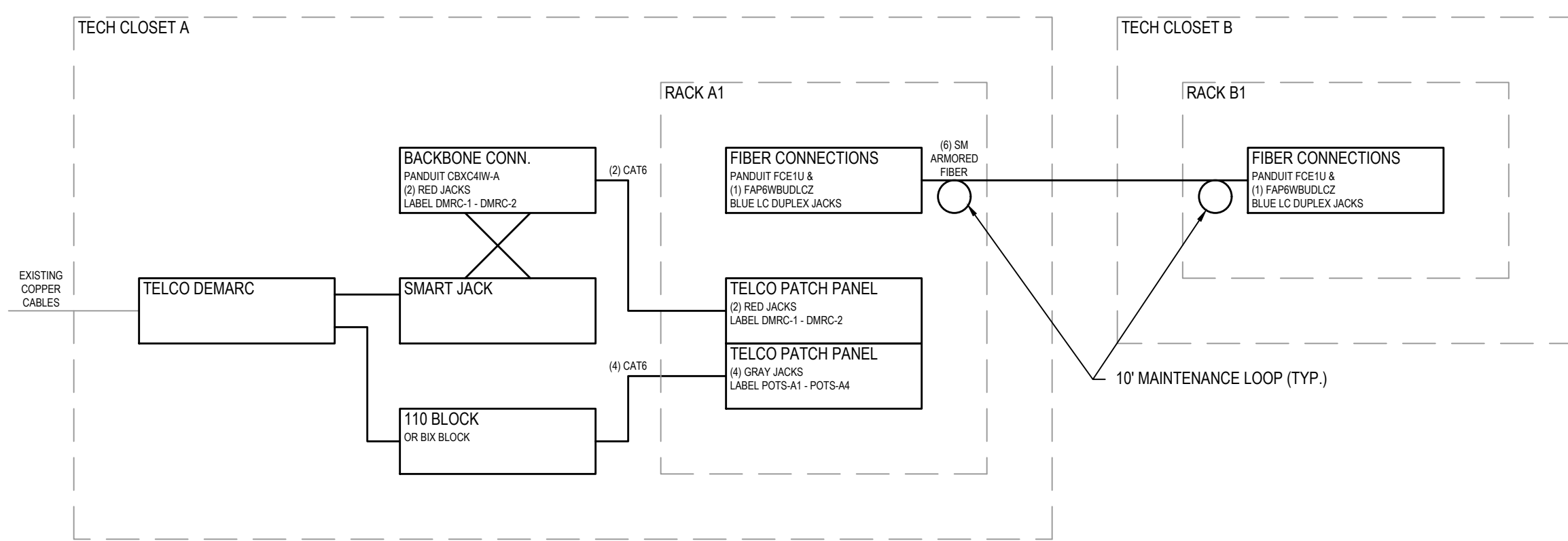
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LACING BAR NOTES

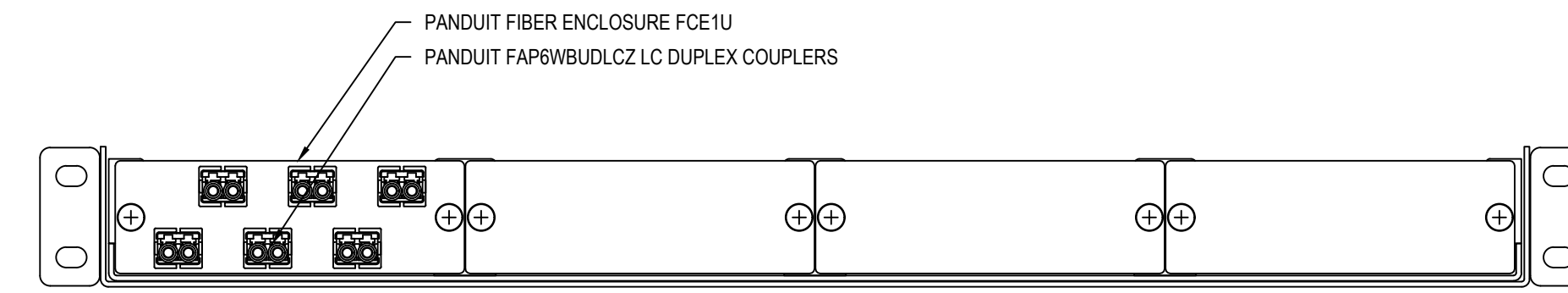
1. USE LACING BAR AT REAR OF RACK TO KEEP ALL CABLES WITHIN THE 2U SPACE OF THE PATCH PANEL TO ALLOW FOR INSTALLATION OF THE SWITCHES ABOVE AND BELOW THE PATCH PANELS.
2. ALL CABLES FROM TOP ROW OF PATCH PANEL SHALL BE ATTACHED TO TOP OF LACING BAR, LIKEWISE ALL CABLES FROM BOTTOM ROW OF PATCH PANEL SHALL BE ATTACHED TO THE BOTTOM OF THE LACING BAR.



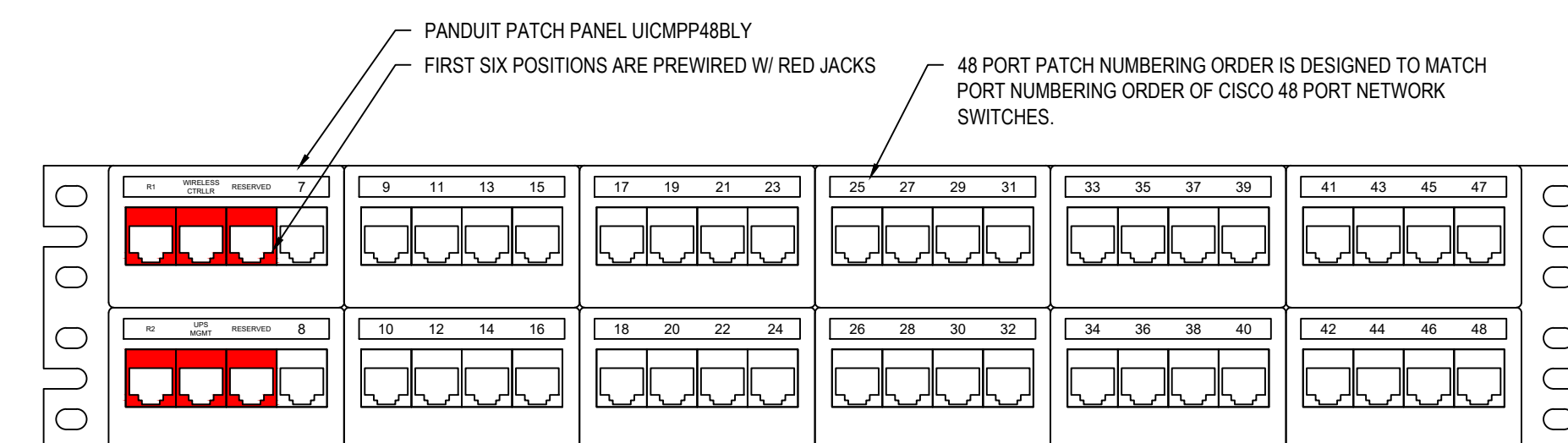
8 Lacing Bar Detail
NTS



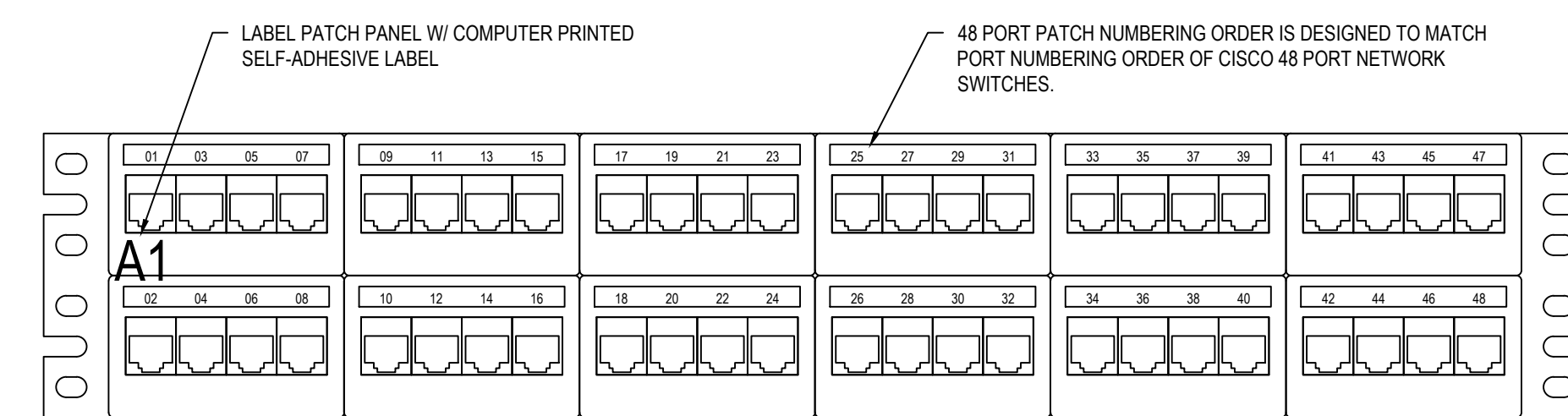
7 Backbone Riser
NTS



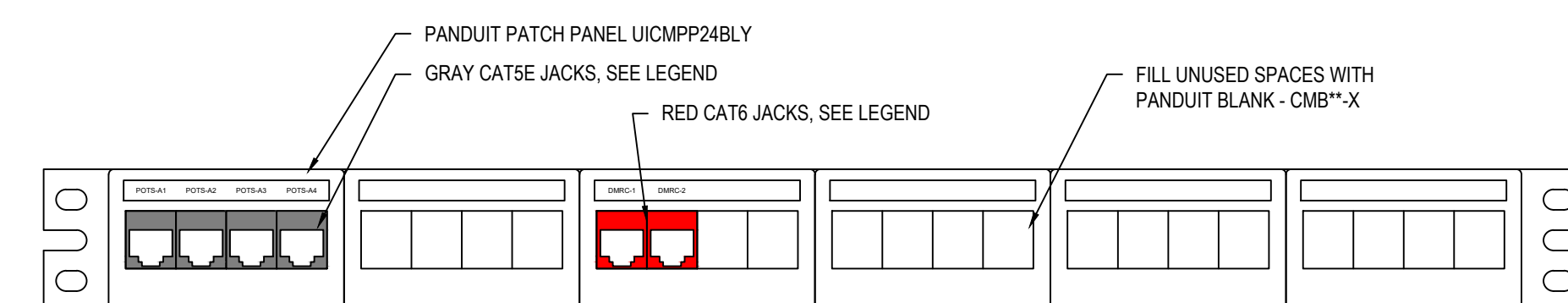
4 Fiber Tray
6"=1'-0"



3 Patch Panel A1A
6"=1'-0"



2 Typical 48-Port Patch Panel
6"=1'-0"



1 Telco Patch Panel
6"=1'-0"