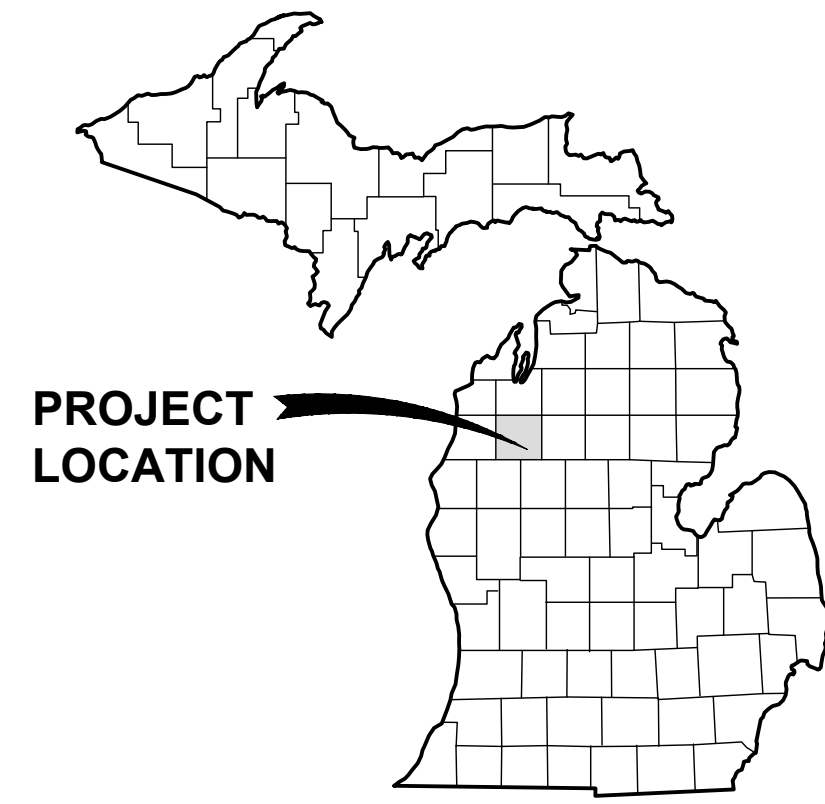


2021 SIDEWALK PROJECT

FOR

LELAND TOWNSHIP

LELAND TOWNSHIP, LEELANAU COUNTY, MICHIGAN



PROJECT LOCATION

VICINITY MAP
NOT TO SCALE

OWNER

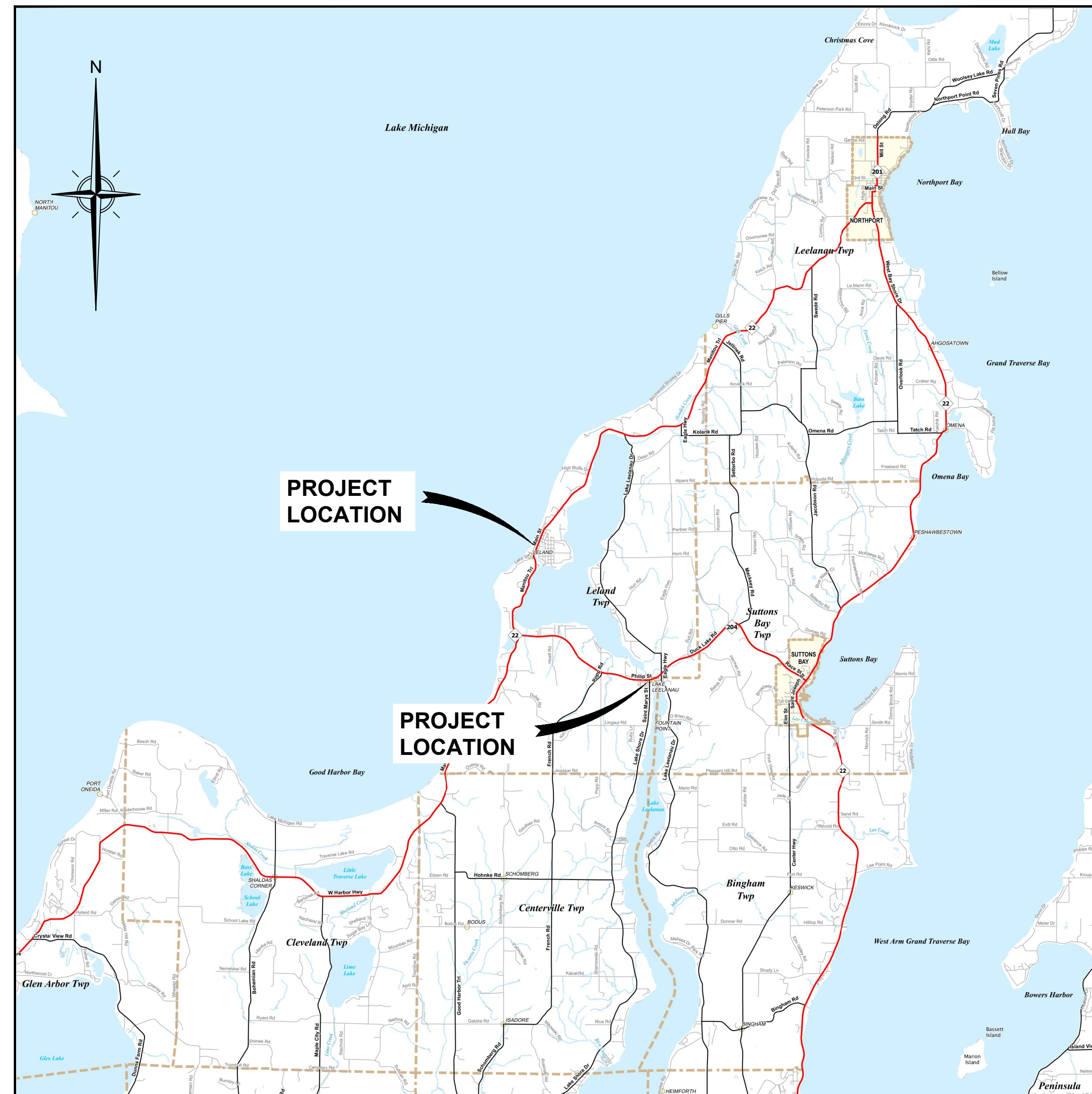
LELAND TOWNSHIP
123 N. ST. JOSEPH STREET
LAKE LEELANAU, MICHIGAN 49601
CONTACT: SUSAN OCH
231.256.7546

ENGINEER

GOSLING CZUBAK ENGINEERING SCIENCES, INC.
1280 BUSINESS PARK DRIVE
TRAVERSE CITY, MICHIGAN, 49686-8607
231.946.9191 - 800.968.1062
www.goslingczubak.com info@goslingczubak.com

UTILITY CONTACTS

NAME OF OWNER	TYPE OF UTILITY
DTE ENERGY ???????????????? ?????????, MI ##### ###.###.#### CONTACT: ??????????	GAS
CONSUMER'S ENERGY ???????????????? ?????????, MI ##### ###.###.#### CONTACT: ??????????	ELECTRIC
CHARTER COMMUNICATIONS ???????????????? ?????????, MI ##### ###.###.#### CONTACT: ??????????	CABLE TV
AT&T ???????????????? ?????????, MI ##### ###.###.#### CONTACT: ??????????	TELEPHONE
??????? OF ????????? ???????????????? ?????????, MI ##### ###.###.#### CONTACT: ??????????	SEWER & WATER



PROJECT LOCATION

PROJECT LOCATION

LOCATION MAP
NOT TO SCALE

SHEET INDEX

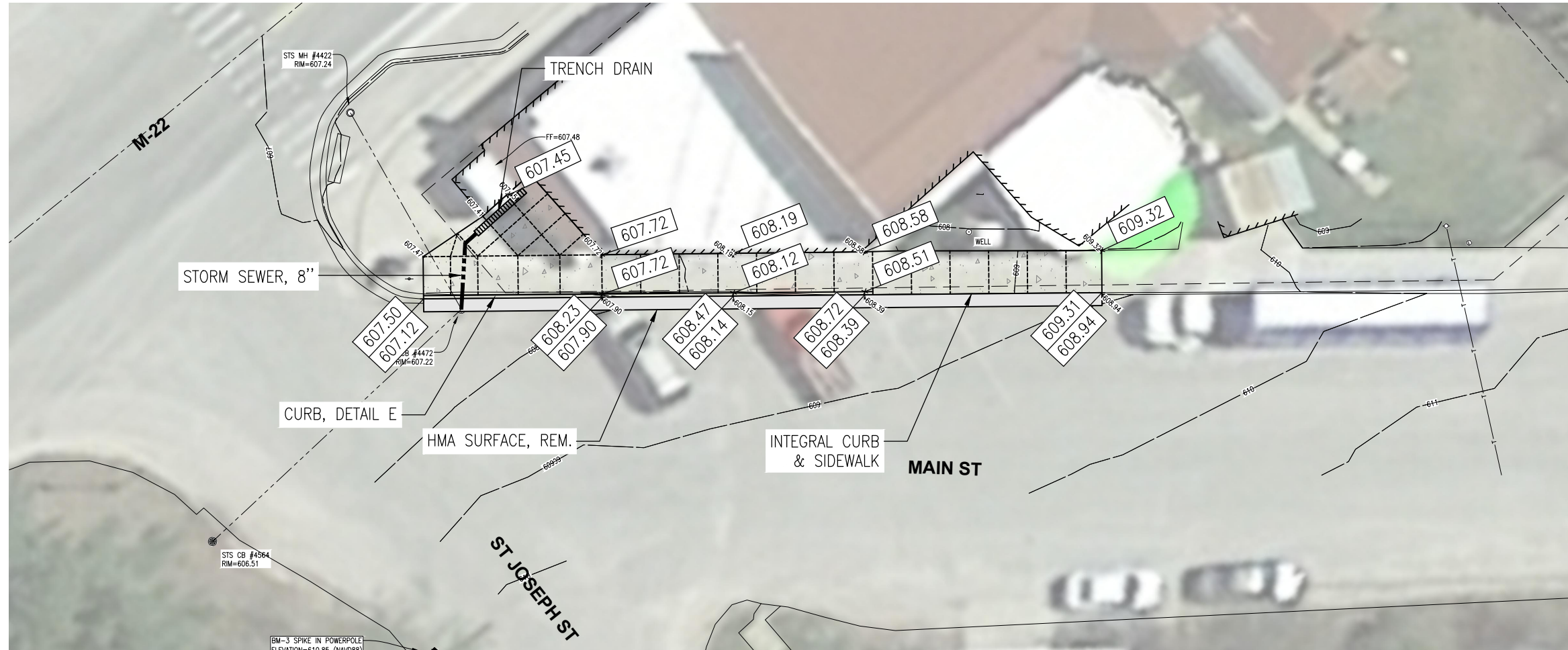
- 1 COVER SHEET
- 2 MAIN STREET (LAKE LEELANAU)
- 3-4 MEINRAD STREET
- 5-6 M-22 (LELAND)
- 7 PEARL STREET
- 8 RIVER STREET
- 9-10 RIVER ST/GRAND AVE INTERSECTION
- 11 DETAILS



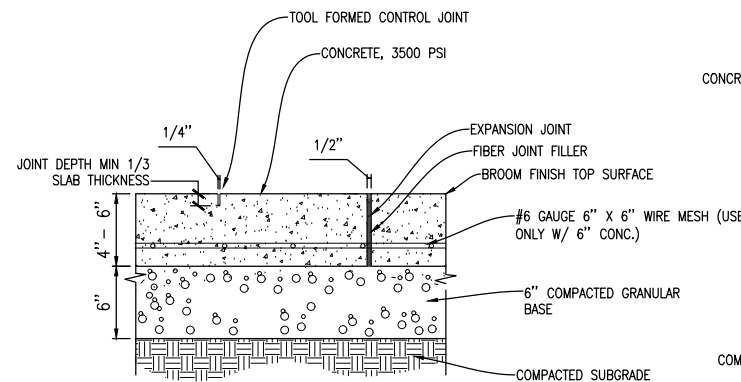
Know what's below.
Call before you dig.



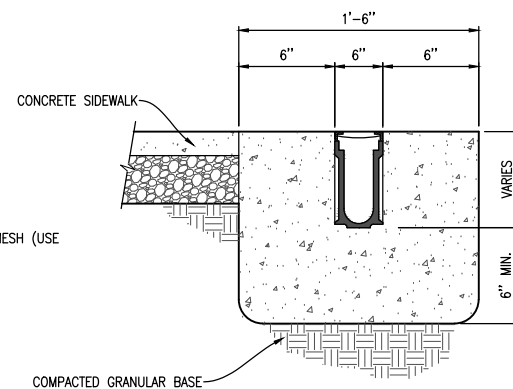
- SIDEWALK REMOVAL - 830sft
- HAND PATCHING - 5 ton
- HMA SURFACE, REMOVAL - 25syd
- SIDEWALK 4" - 590sft
- INTEGRAL CURB/SIDEWALK - 240sft
- CURB REMOVAL - 53ft
- AGGREGATE BASE - 25syd
- CURB, DETAIL E - 70ft
- STORM SEWER, 8" - 13ft
- TRENCH DRAIN - 10ft



MAIN STREET PLAN
SCALE : 1" = 20'

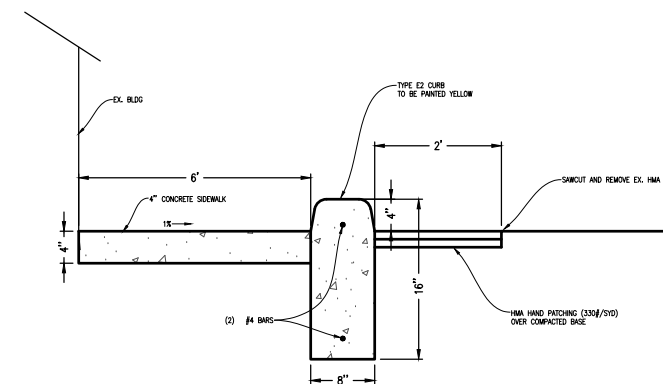


CONC. SIDEWALK
SCALE: NTS

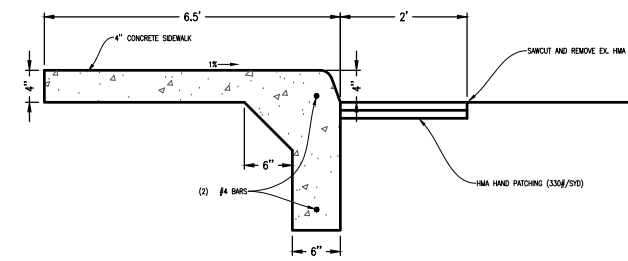


TRENCH DRAIN DETAIL
NOT TO SCALE

NOTE:
"POLYDRAIN" MODEL
TRENCH DRAIN BY ABT, INC.
W/ DUCTILE IRON, REMOVABLE,
HEEL-SAFE STYLE GRATE.
USE UNITS AS REQUIRED TO
SLOPE TO OUTLET CONNECTION.



TYPE E2 CURB SIDEWALK DETAIL
NOT TO SCALE



INTEGRAL SIDEWALK AND CURB DETAIL
NOT TO SCALE

No.	Date	Revision	By

MAIN STREET PLAN SHEET 1
LELAND TOWNSHIP SIDEWALK
LELAND TOWNSHIP

Date Issued: #####
Date Surveyed: #####
Designed By: MAG
Drawn By: JRL
Checked By: WCB
Scale: AS NOTED

Original sheet size is 22x34

Location:
PART OF SECTION 26
T33N, R12W
LELAND TOWNSHIP
LELANAU COUNTY, MICHIGAN

Project Number:
2019133001

Sheet:



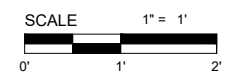
SIDEWALK REMOVAL - 250sft
 SIDEWALK 4\" - 250sft
 SIDEWALK 6\" - NA

SIDEWALK REMOVAL - 475sft
 SIDEWALK 4\" - 375sft
 SIDEWALK 6\" - 100sft
 TREE REMOVAL

REM. - 255sft
 4\" - 255sft
 6\" - NA

SIDEWALK REMOVAL - 875sft
 SIDEWALK 4\" - 750sft
 SIDEWALK 6\" - 100sft
 ADA RAMP - 25sft
 DET. WARNING STRIP - 4sft

MEINRAD STREET PLAN SHEET 1
 SCALE: 1\" = 20'



No.	Date	Revision	By

MEINRAD STREET PLAN SHEET 1
LELAND TOWNSHIP SIDEWALK
 LELAND TOWNSHIP

Date Issued: ###
 Date Surveyed: ###
 Designed By: MAG
 Drawn By: JRL
 Checked By: WCB
 Scale: AS NOTED

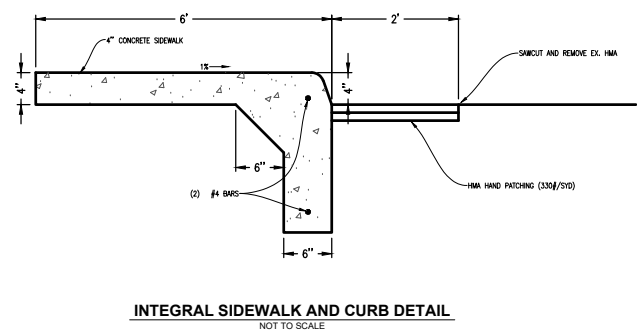
Original sheet size is 22x34

Location:
 PART OF SECTION 26
 T30N, R12W
 LELAND TOWNSHIP
 LELANAU COUNTY, MICHIGAN

Project Number:
 2019133001

Sheet:
3

- DITCHING - 35sft
- SIDEWALK REMOVAL - 230sft
- ADA RAMP - 25sft
- SIDEWALK, 4" - 230sft
- DET. WARNING STRIP - 4ft

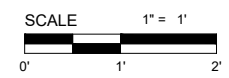


- SIDEWALK REMOVAL - 432sft
 - HAND PATCHING - 3 ton
 - HMA SURFACE, REMOVAL - 15syd
 - ADA RAMP - 30sft
 - INTEGRAL CURB/SIDEWALK - 402sft
 - DET. WARNING STRIP - 4ft
- SIDEWALK REMOVAL - 432sft
 - HAND PATCHING - 3 ton
 - HMA SURFACE, REMOVAL - 15syd
 - ADA RAMP - 30sft
 - INTEGRAL CURB/SIDEWALK - 402sft
 - DET. WARNING STRIP - 8ft



SIDEWALK REMOVAL - 575sft	REM. - 300sft	REM. - 250sft	REM. - 225sft	REM. - 200sft	REM. - 250sft	REM. - 60sft
SIDEWALK 4" - 550sft	4" - 200sft	4" - 200sft	4" - NA	4" - 200sft	4" - 250sft	4" - 60sft
SIDEWALK 6" - NA	6" - 100sft	6" - 50sft	6" - 225sft	6" - NA	6" - NA	6" - NA
ADA RAMP - 25sft						
DET. WARNING STRIP - 4ft						
TREE REMOCE - 1ea						

MEINRAD STREET PLAN SHEET 2
 SCALE: 1" = 20'



No.	Date	Revision	By

MEINRAD STREET PLAN SHEET 2
LELAND TOWNSHIP SIDEWALK
 LELAND TOWNSHIP

Date Issued: ###
 Date Surveyed: ###
 Designed By: MAG
 Drawn By: JRL
 Checked By: WCB
 Scale: AS NOTED

Original sheet size is 22x34
 Location:
 PART OF SECTION 26
 T30N, R12W
 LELAND TOWNSHIP
 LELANAU COUNTY, MICHIGAN
 Project Number:
 2019133001

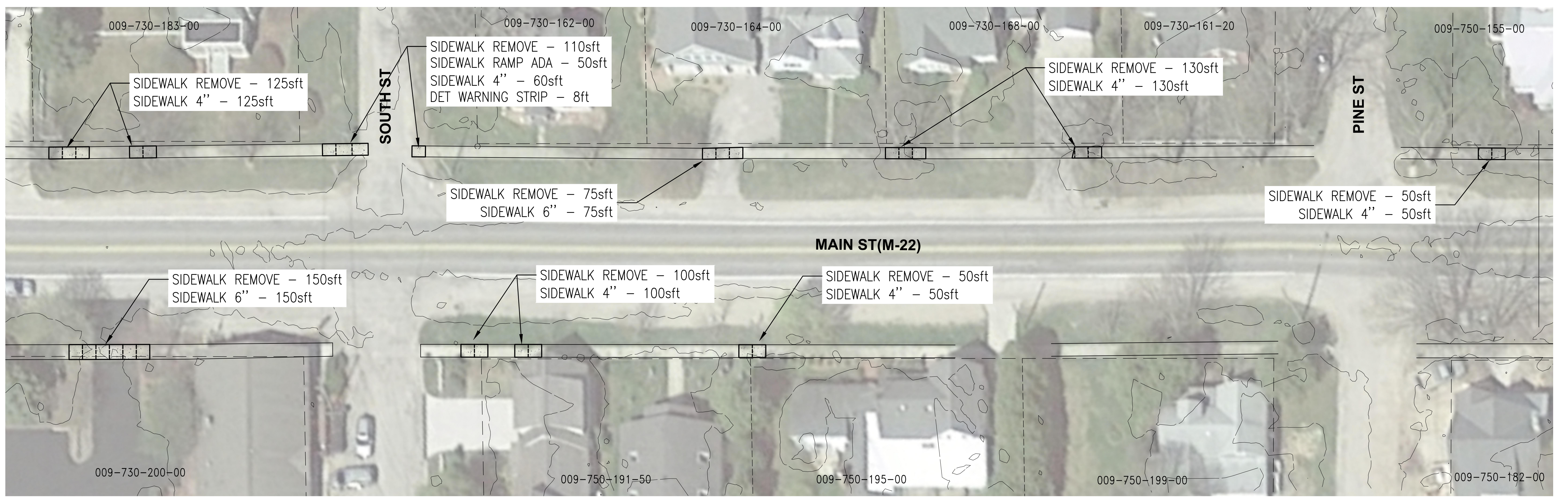
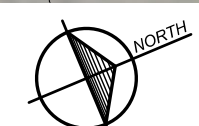


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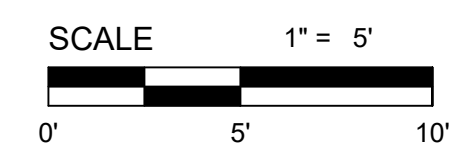
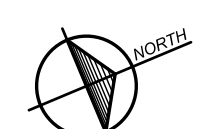
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 SURVEYING
 ENVIRONMENTAL SERVICES
 GEOTECHNICAL
 CONSTRUCTION SERVICES
 DRILLING
 LANDSCAPE ARCHITECTURE



M-22 PLAN VIEW
 SCALE: 1" = 20'



M-22 PLAN VIEW
 SCALE: 1" = 20'

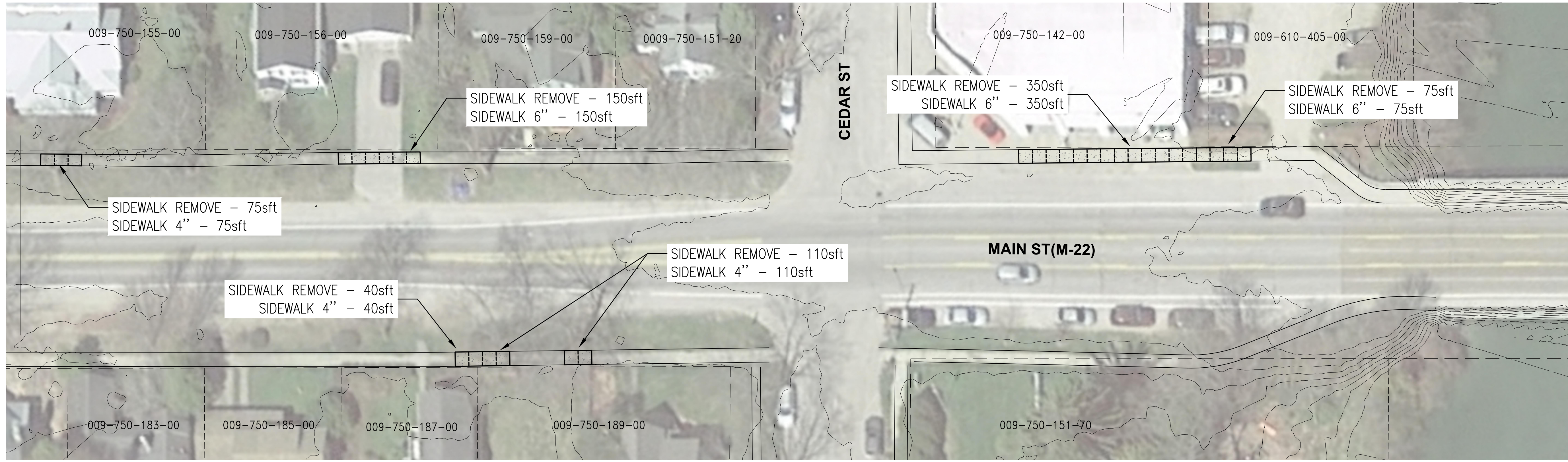


No.	Date	Revision	By

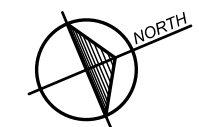
M-22 PLAN SHEET 1
LELAND TOWNSHIP SIDEWALK
 LELAND TOWNSHIP

Date Issued: ###
 Date Surveyed: ###
 Designed By: MAG
 Drawn By: JRL
 Checked By: WCB
 Scale: AS NOTED

Original sheet size is 22x34
 Location:
 PART OF SECTION 26
 T30N, R12W
 LELAND TOWNSHIP
 LELANAU COUNTY, MICHIGAN
 Project Number:
 2019133001



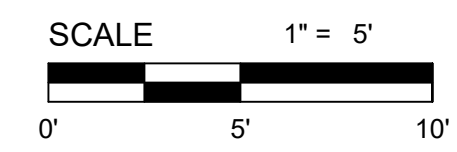
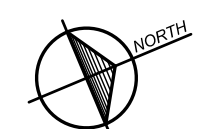
M-22 PLAN VIEW
SCALE : 1" = 20'



No.	Date	Revision	By



M-22 PLAN VIEW
SCALE : 1" = 20'



M-22 PLAN SHEET 2
LELAND TOWNSHIP SIDEWALK
 LELAND TOWNSHIP

Date Issued: ####
 Date Surveyed: ###
 Designed By: MAG
 Drawn By: JRL
 Checked By: WCB
 Scale: AS NOTED

Original sheet size is 22x34
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 LEELANAU COUNTY, MICHIGAN

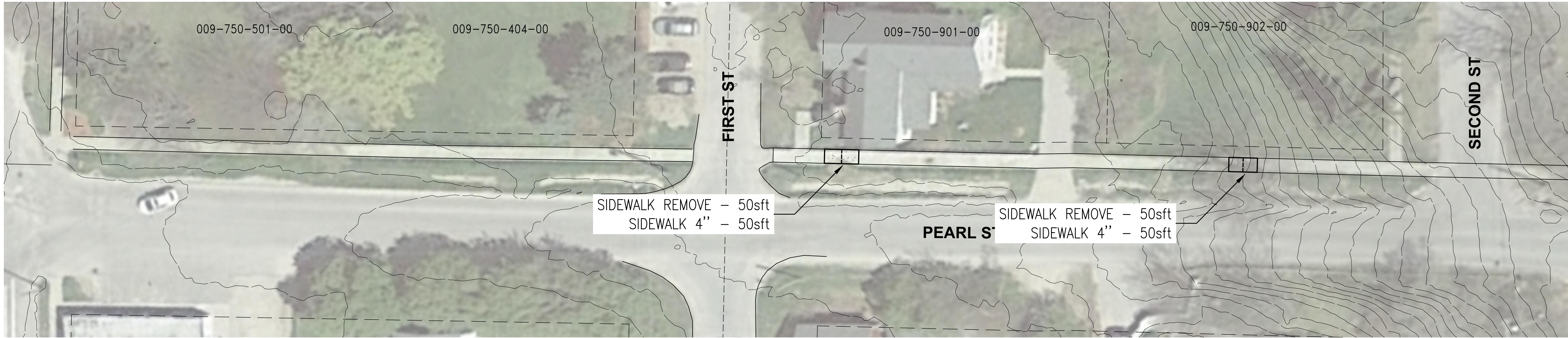
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 2019133001

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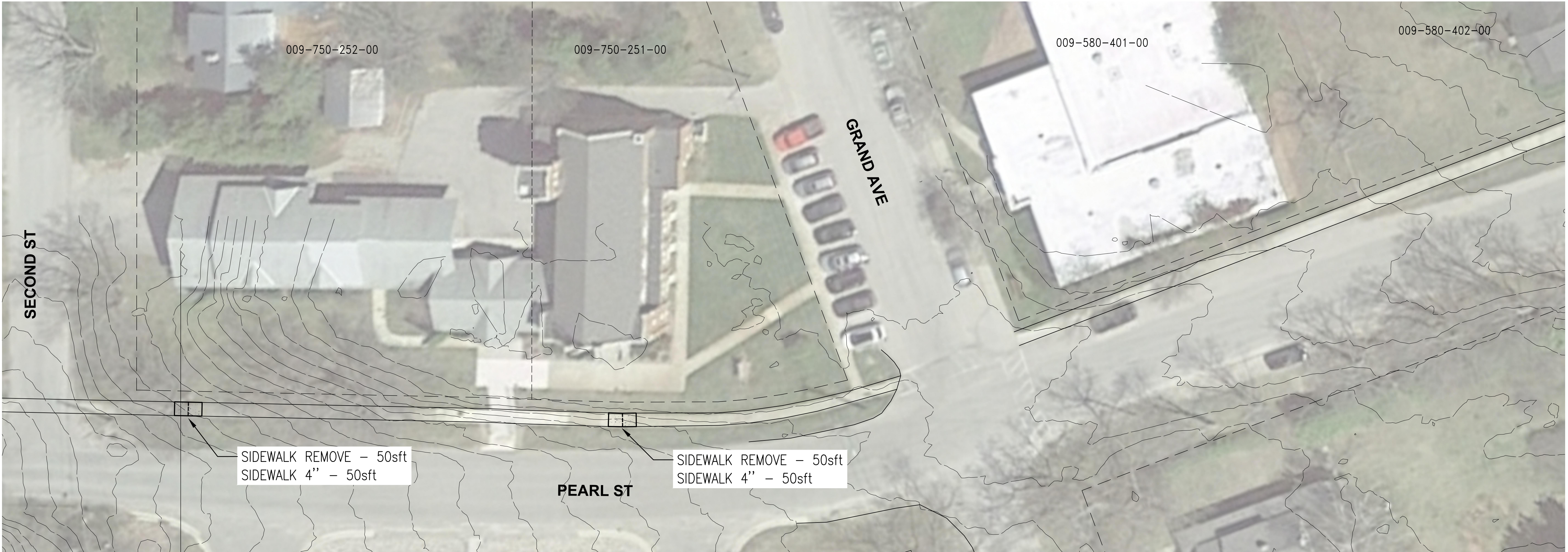


PEARL STREET PLAN VIEW

SCALE : 1" = 20'

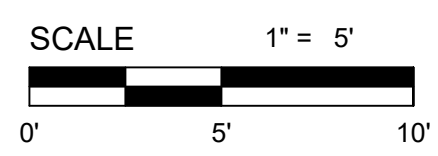


No.	Date	Revision	By



PEARL STREET PLAN VIEW

SCALE : 1" = 20'



PEARL STREET PLAN SHEET
LELAND TOWNSHIP SIDEWALK
 LELAND TOWNSHIP

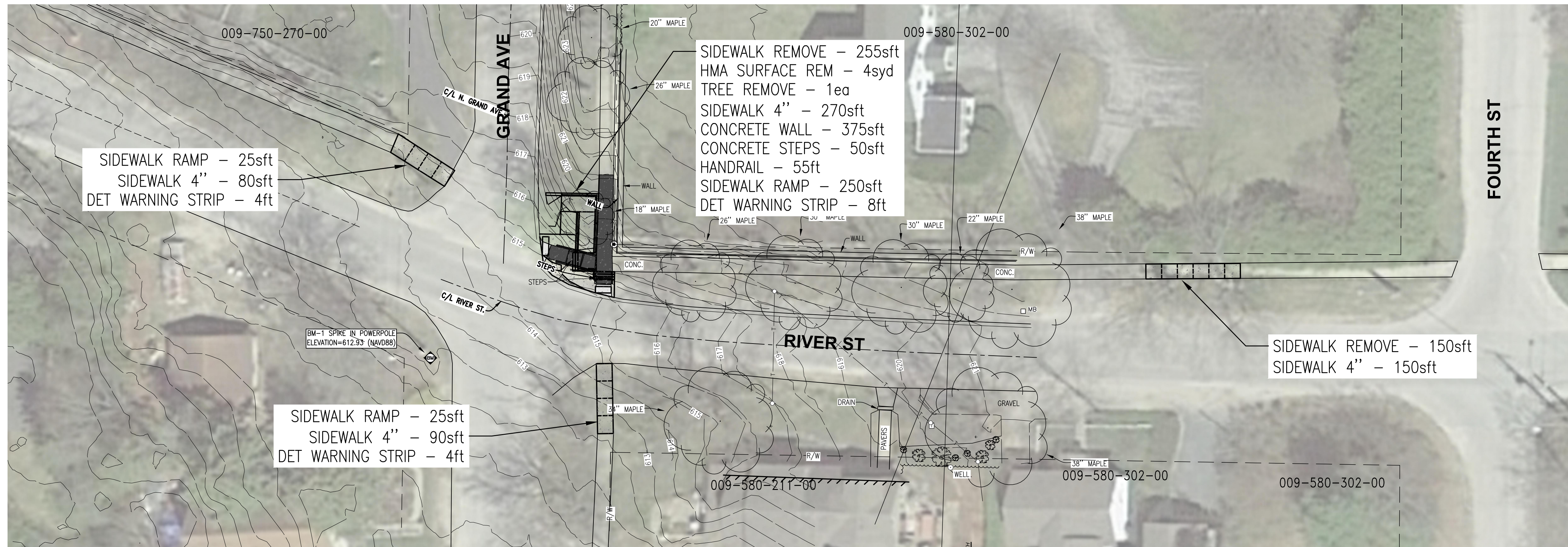
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 Date Surveyed: ####
 Designed By: MAG
 Drawn By: JRL
 Checked By: WCB
 Scale: AS NOTED
 Original sheet size is 22x34

Location:
 PART OF SECTION 26
 T30N, R12W
 LELAND TOWNSHIP
 LELANAU COUNTY, MICHIGAN

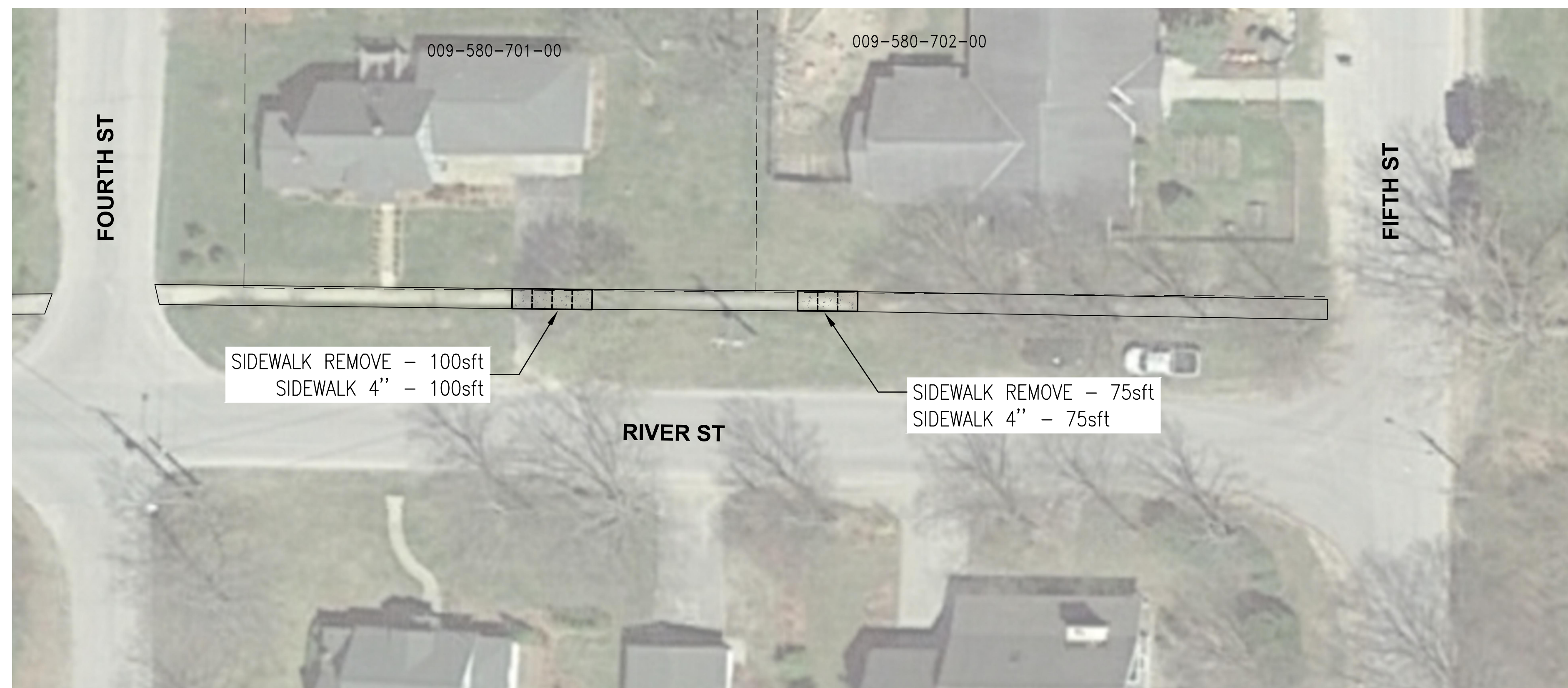
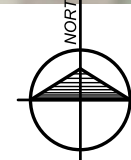
Project Number:
 2019133001

Sheet:
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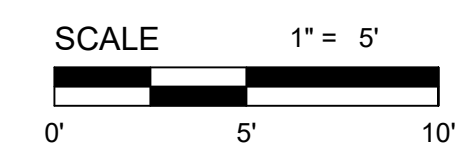
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RIVER STREET PLAN VIEW
SCALE : 1" = 20'



RIVER STREET PLAN VIEW
SCALE : 1" = 20'



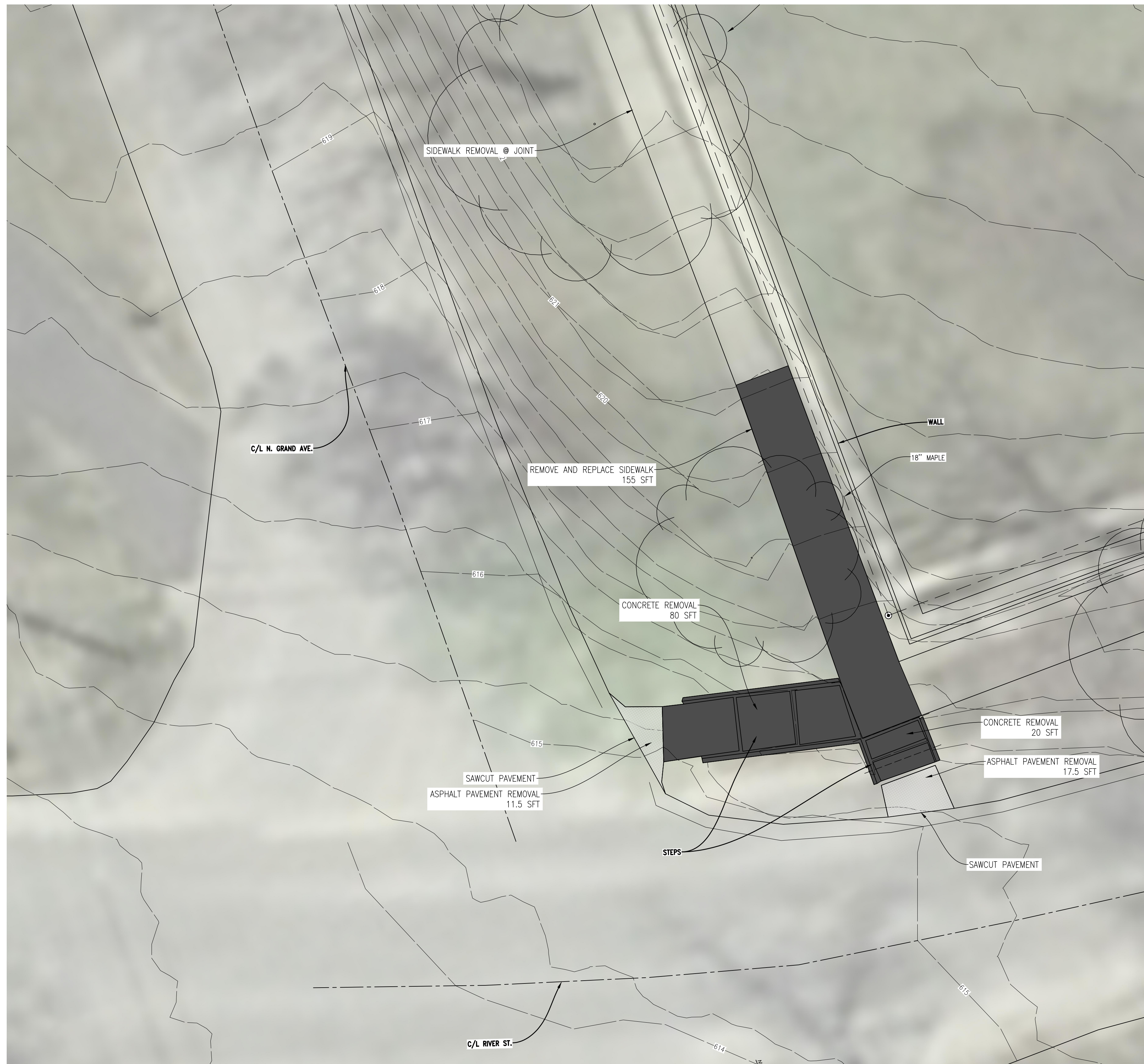
No.	Date	Revision	By

RIVER STREET PLAN SHEET
LELAND TOWNSHIP SIDEWALK
LELAND TOWNSHIP

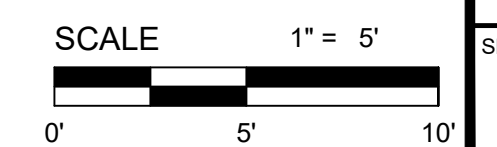
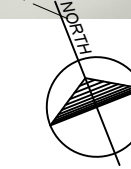
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Date Surveyed: ####
Designed By: MAG
Drawn By: JRL
Checked By: WCB
Scale: AS NOTED

Original sheet size is 22x34
Location:
PART OF SECTION 26
T30N, R12W
LELAND TOWNSHIP
LELANAU COUNTY, MICHIGAN

Project Number:
2019133001



RIVER STREET REMOVAL
SCALE : 1" = 5'



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info@goslingczubak.com
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No.	Date	Revision	By

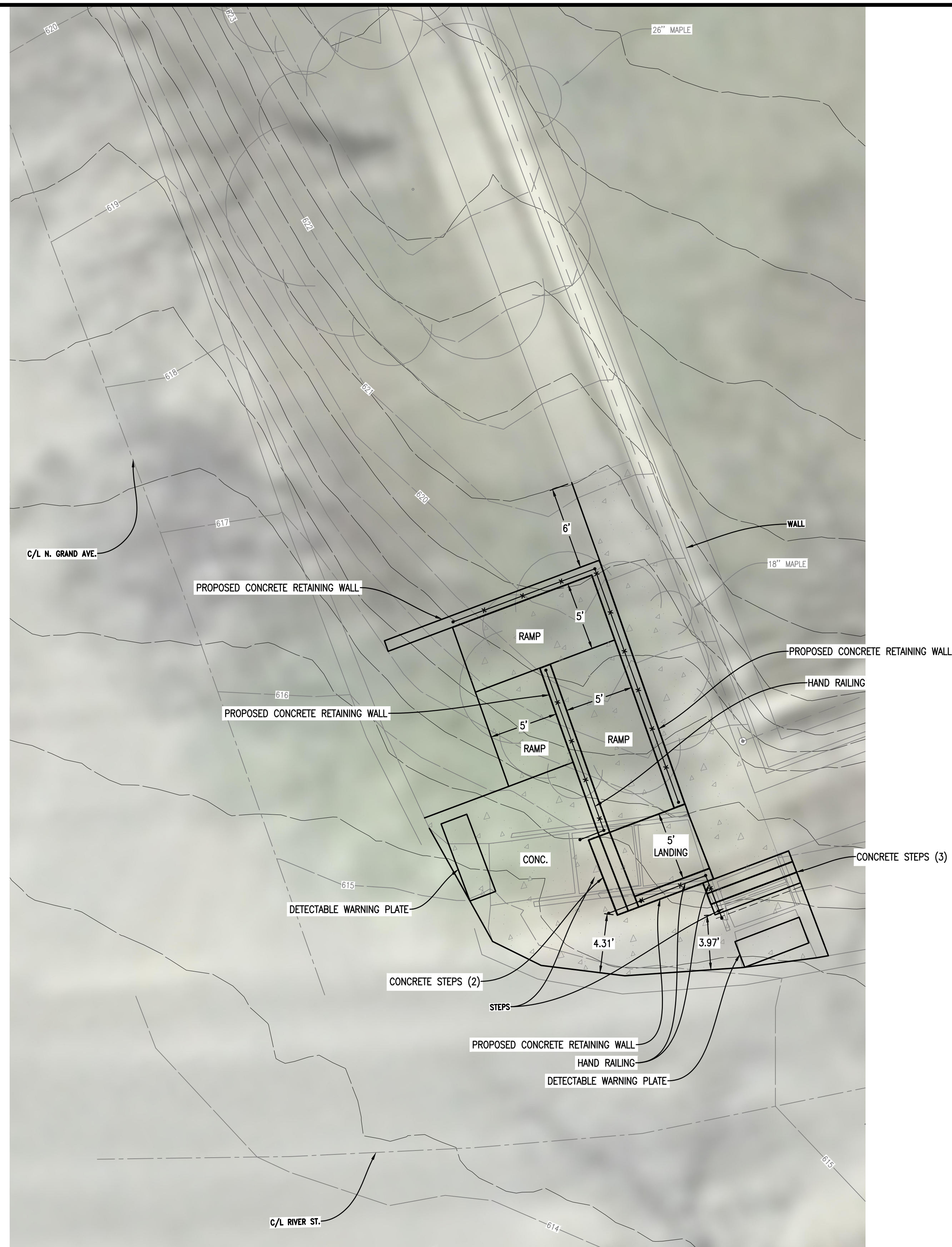
**N. GRAND AVE / RIVER STREET
LELAND TOWNSHIP SIDEWALK
LELAND, MI**

Date Issued: 04/29/2021
Date Surveyed: 01/14/2021
Designed By: WCB
Drawn By: ERP
Checked By: MAG
Scale: AS NOTED
Original sheet size is 22x34

Location:
SECTION 9
T30N, R 12W
LELAND TOWNSHIP
LEELANAU COUNTY
MICHIGAN

Project Number:
2019133001.02

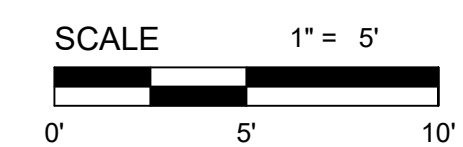
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RIVER STREET SITE PLAN
SCALE : 1" = 5'



RIVER STREET GRADING PLAN
SCALE : 1" = 5'



No.	Date	Revision	By

**N. GRAND AVE / RIVER STREET
LELAND TOWNSHIP SIDEWALK
LELAND, MI**

Date Issued: 04/29/2021
Date Surveyed: 01/14/2021
Designed By: WCB
Drawn By: ERP
Checked By: MAG
Scale: AS NOTED

Original sheet size is 22x34

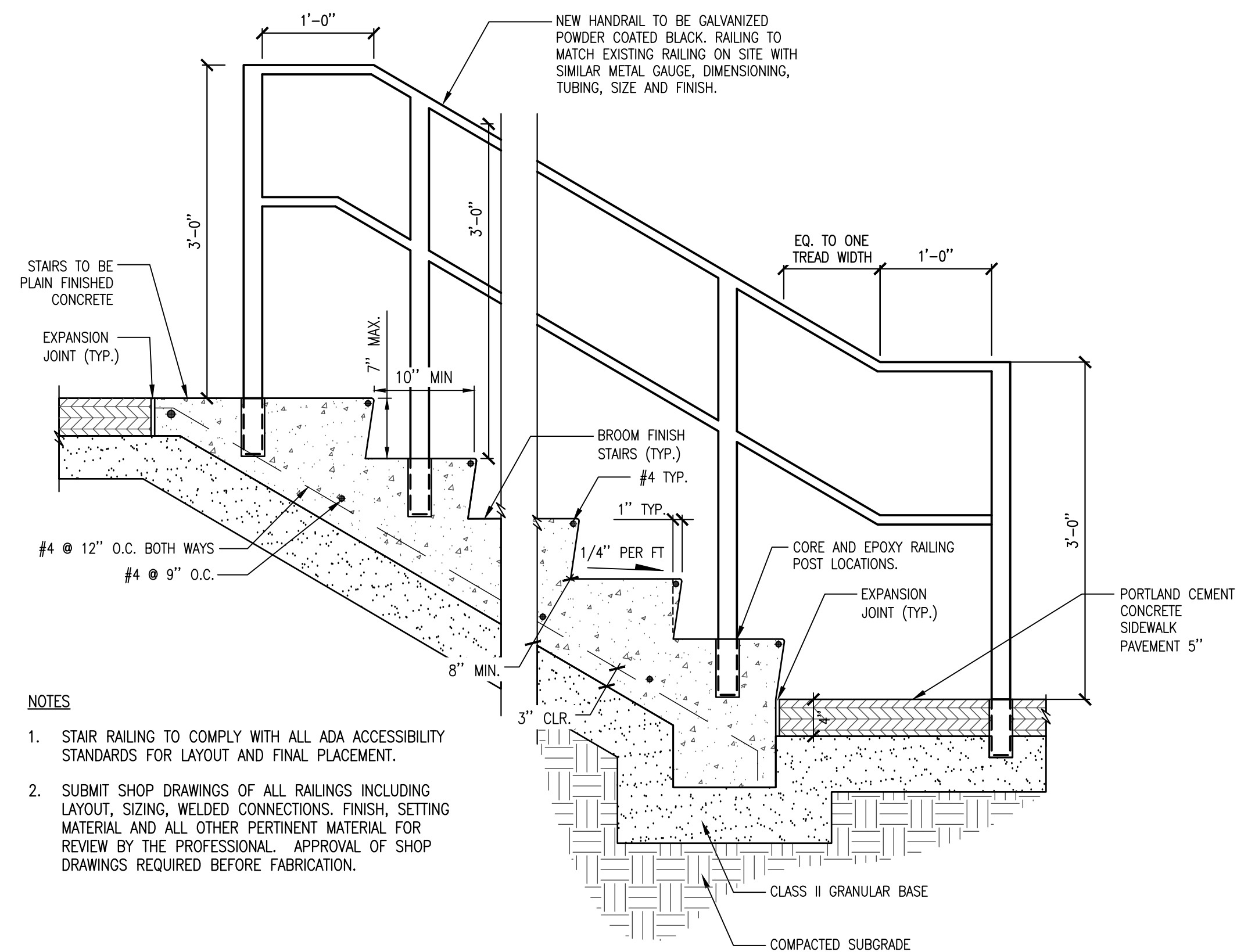
Location:
SECTION 9
T30N, R 12W
LELAND TOWNSHIP
LELANAU COUNTY
MICHIGAN

Project Number:
2019133001.02



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 info@goslingczubak.com
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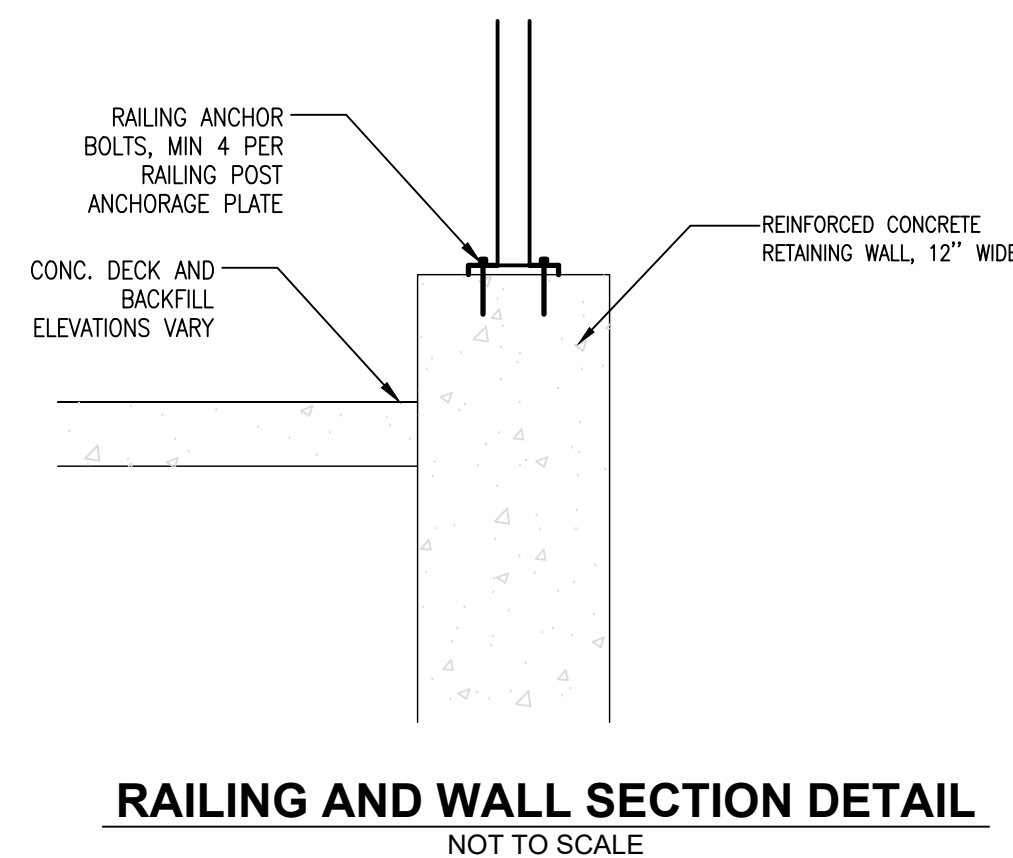
CIVIL ENGINEERING
 SURVEYING
 ENVIRONMENTAL SERVICES
 GEOTECHNICAL
 CONSTRUCTION SERVICES
 DRILLING
 LANDSCAPE ARCHITECTURE



NOTES

1. STAIR RAILING TO COMPLY WITH ALL ADA ACCESSIBILITY STANDARDS FOR LAYOUT AND FINAL PLACEMENT.
2. SUBMIT SHOP DRAWINGS OF ALL RAILINGS INCLUDING LAYOUT, SIZING, WELDED CONNECTIONS, FINISH, SETTING MATERIAL AND ALL OTHER PERTINENT MATERIAL FOR REVIEW BY THE PROFESSIONAL. APPROVAL OF SHOP DRAWINGS REQUIRED BEFORE FABRICATION.

TYPICAL STAIR AND HANDRAIL DETAIL
 SCALE: 1" = 1'-0"



RAILING AND WALL SECTION DETAIL
 NOT TO SCALE

No.	Date	Revision	By

**N. GRAND AVE / RIVER STREET
 LELAND TOWNSHIP SIDEWALK
 LELAND, MI**

Date Issued: 04/29/2021
 Date Surveyed: 01/14/2021
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 Drawn By: ERP
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 Scale: AS NOTED

Original sheet size is 22x34
 Location:
 SECTION 9
 T30N, R 12W
 LELAND TOWNSHIP
 LELANAU COUNTY
 MICHIGAN

Project Number:
 2019133001.02

Sheet:
 11

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