



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
GREAT LAKES NATIONAL PROGRAM OFFICE
REGION 5
9311 GROH ROAD
GROSSE ILE, MI 48138

07 June 2017

The Honorable City Council
ATTN: Office of the City Clerk
200 Coleman A. Young Municipal Center
Detroit, Michigan 48226

RE: Request for Temporary Closure of Portion of Medina Street

Dear Sirs & Mesdames:

We are writing to you to request a hearing before the City Council to approve temporary closure of a portion of Medina Street, located in the Delray neighborhood, Detroit, Michigan. The closure is required as part of a major clean-up of contaminated sediments in the Rouge River Old Channel which will improve the quality of the river and the related environment. Additional details are provided in this letter and its attachments.

The U.S. Environmental Protection Agency (USEPA) and Honeywell Inc. have been working cooperatively under the Great Lakes Legacy Act (GLLA) to remediate contaminated sediment in the Rouge River Old Channel that impacts the river. Dredging as part of the remedy necessitates building of a permanent bulkhead wall along the shoreline. Tiebacks for this wall in turn require temporary closure of the terminal 50 feet of Medina Street. Bulkhead wall construction is set to start in summer of 2017 to allow dredging in 2018. The limits of work are designed to allow access street access for residential properties. USEPA and Honeywell will continue to work with local property owners to minimize any inconvenience. We are submitting this package to request a grant for temporary closure of the terminal end of Medina Street between January 2018 and May 2018.

Enclosed are a fact sheet describing the project and the engineering plan sets depicting the proposed changes to Medina Street. Should you have any questions, please feel free to contact me, Rose Ellison at (734) 692-7689 or provide emailed comments to Ellison.Rosanne@epa.gov.

Sincerely,

A handwritten signature in black ink that reads "Rose Ellison".

Rose Ellison
Great Lakes National Program Office
U.S. Environmental Protection Agency

Enclosures: Fact Sheet
Drawing Set

CC: Will Tamminga, EDC

**FACT SHEET
LOWER ROUGE RIVER OLD CHANNEL
SEDIMENT REMEDIATION PROJECT
JUNE 2017**

Introduction and Overview

The United States Environmental Protection Agency Great Lakes National Program Office (GLNPO) is working throughout the Great Lakes region to implement remediation and restoration projects under the Great Lakes Legacy Act. These projects focus on addressing beneficial use impairments at known areas of concern (AOCs).

As part of a collaborative agreement, GLNPO has worked with Honeywell International Inc. (the non-federal sponsor; Honeywell), to develop a plan to address sediment contamination in the Lower Rouge River Old Channel (LRROC), which is part of the Rouge River AOC. The LRROC contains sediments contaminated with multiple constituents of concern, including polycyclic aromatic hydrocarbons (PAHs) and non-aqueous phase liquid (NAPL).

Site Setting

The Project is located in Detroit, Michigan, adjacent to Zug Island. A history of multiple industrial discharges, stormwater outfalls, combined sewer overflows, and non-point pollution sources culminated in highly contaminated sediment. The LRROC is maintained as an active channel for industrial and commercial shipping traffic. Only maintenance dredging has occurred within the project area; no remedial actions have been performed.

Overview of Project Components

Based on an engineering feasibility study and the results of extensive pre-design investigation studies, the remedial design concept for the LRROC includes the following key components:

- **Dredging:** Dredging of approximately 70,000 cubic yards (CY) from 10 acres to remove contaminated sediments. Dredging will be completed using an environmental (e.g. closed/sealed) bucket. Dredging will be conducted from a barge surrounded by silt curtains to limit suspended sediment movement. Dredging will be performed with consideration of surface water quality during remediation; monitoring will be performed to maintain water quality within permitted limits. Sediment dredged as part of the Project is expected to be placed in the United States Army Corps of Engineers (USACE) Point Mouillee Confined Disposal Facility (CDF). The distance from the LRROC to the CDF is approximately 22 miles. No barge overflow of water or sediments may occur at any time—during excavation, navigation, or placement at the CDF.
- **Capping:** Subaqueous capping of about 1 acre to limit exposures to materials that are difficult to dredge due to limitations associated with a nearby water intake, shoreline/structural stability, or material depth. The aggregate cap will consist of a bulk sand/organoclay mixture for chemical isolation, overlain by a granular/gravel filter layer to prevent piping, overlain by an armor layer consisting of a cobble/boulder material. Surface water quality will also be considered during capping operations.
- **Temporary Shoreline Stabilization:** Four areas targeted for dredging are on or adjacent to the toe of the channel slopes or in proximity to existing structures; these areas will require temporary stabilization using sheet pile and backfill. Sheet pile will be driven to a depth of at least 20 feet below sediment surface with approximately 30 feet remaining above sediment surface. After dredging, the area downslope of the temporary shoring will be backfilled to preserve the stability of the channel side slopes and shoreline. After backfilling, the sheetpile will be removed.

- **Permanent Shoreline Stabilization:** In some areas along the mainland side of the LRROC, the existing slopes are very steep. To achieve a stable slope after dredging, temporary shoreline stabilization would require large amounts of backfill encroaching into the navigation channel. Temporary shoreline stabilization is not feasible in these areas. Therefore, approximately 2,500 linear feet (LF) of shoreline will be permanently stabilized via installation of a bulkhead wall with tie-backs/deadmen to address shoreline stability in areas of moderate to deep dredging. The wall will be continuous with the exception of several “windows” or openings in the sheet pile wall which will be included to allow the passage of active underground utilities and the Zug Island Bridge that cross the river.
- **Permitting, Stakeholder Coordination, and Sustainability:** A key component of the design is obtaining permits. Because the work occurs in a waterbody and floodplain, a Joint Permit Application has been submitted to the Michigan Department of Environmental Quality (MDEQ) and U.S. Army Corps of Engineers (USACE). MDEQ has issued the public notice for their permitting process and USACE issued public notice in early Fall 2016. Additional municipal and county permit applications are being submitted concurrently.
- **Schedule:** Permanent bulkhead wall construction is expected to begin in summer of 2017 and take approximately 13 months. The remedial contractor will mobilize to the site in 2018 and begin remedial construction activities (i.e., dredging, material handling and disposal, and capping), which are anticipated to take approximately 9 months to complete.

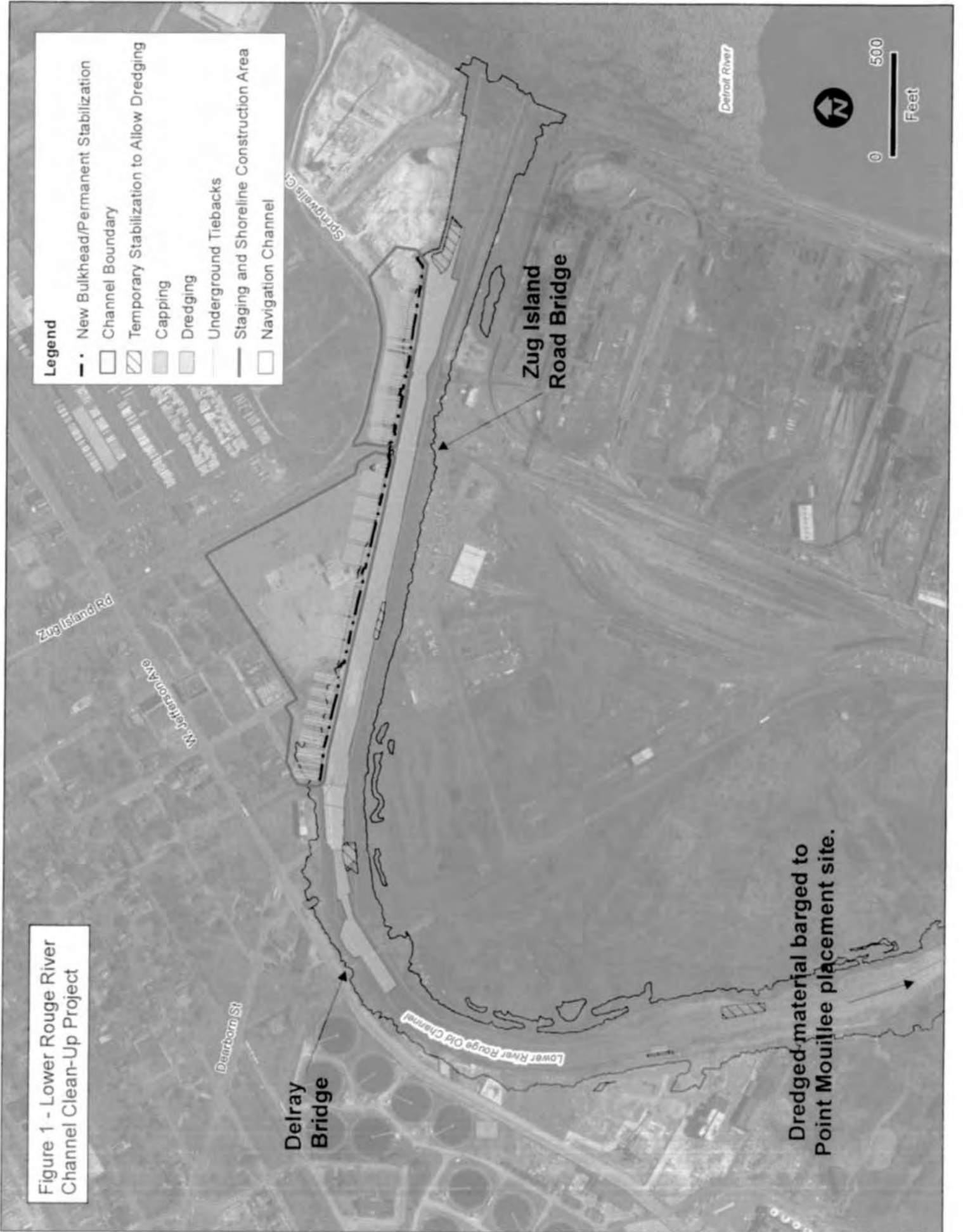
Relevance to Medina Street

The design of the permanent sheetpile bulkhead wall includes approximately 2,500 feet of shoreline along the channel. The bulkhead requires tiebacks of up to 125 feet in length which connect to an anchor wall that would be located within the limits of Medina Street. Construction of the tiebacks and anchor wall require closure of the full width of the terminal 25 feet of Medina Street, and half the width of an additional 50 feet prior. The project sponsors are seeking to obtain temporary closure of this portion of the road for a duration of 3 months in early 2018. Planning for this closure has been conducted in close coordination with the adjacent landowners/residents, with whom the project team is working to obtain signed access agreements.

Contact Us

For further information, please contact Rose Ellison, U.S. Environmental Protection Agency, by phone at (734) 692-7689 or by email at ellison.rosanne@epa.gov.

Figure 1 - Lower Rouge River Channel Clean-Up Project



Legend

- - - New Bulkhead/Permanent Stabilization
- Channel Boundary
- ▨ Temporary Stabilization to Allow Dredging
- Capping
- Dredging
- Underground Tiebacks
- Staging and Shoreline Construction Area
- Navigation Channel

0 500
Feet



Delray Bridge

Zug Island Road Bridge

Detroit River

Zug Island Rd

W. Jefferson Ave

Dearborn St

Lower River Rouge Old Channel

Spartanville Ct

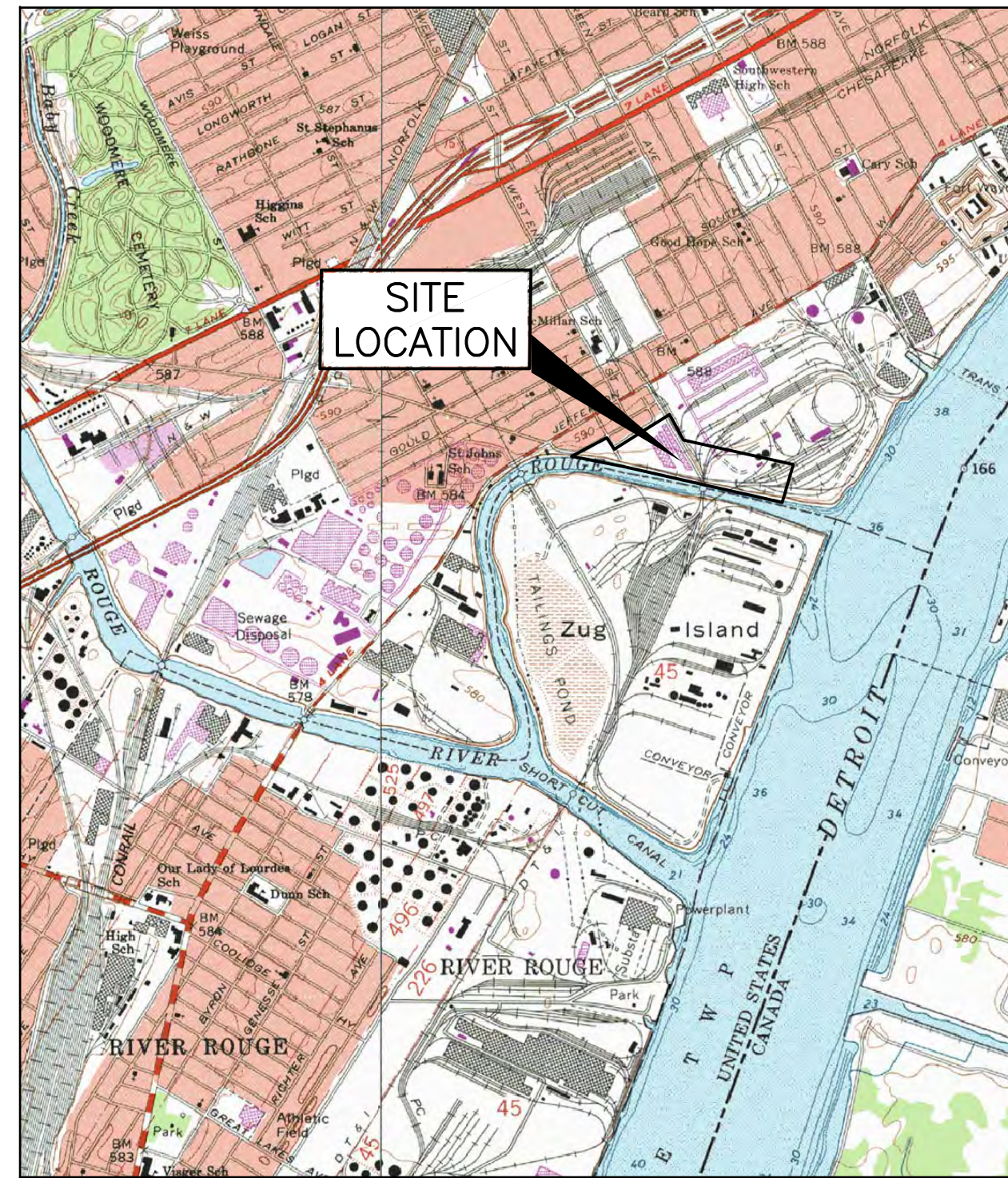
Dredged material barged to Point Mouillee placement site.

LOWER ROUGE RIVER OLD CHANNEL ROUGE RIVER AREA OF CONCERN PERMANENT SHEETPILE WALL INSTALLATION DETROIT, MICHIGAN

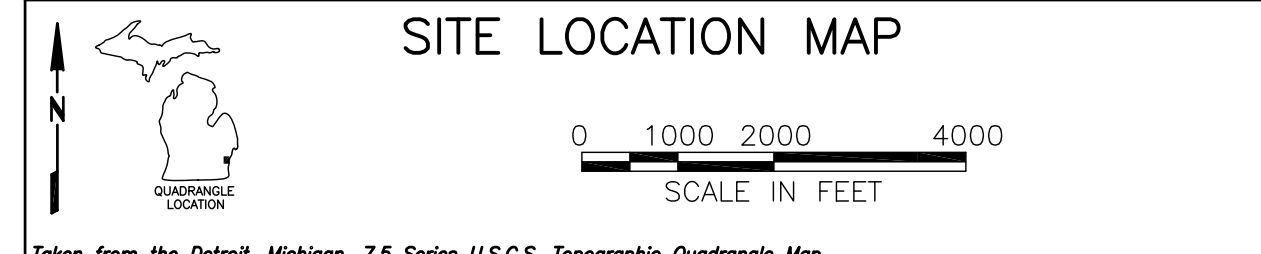
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DRAWING INDEX

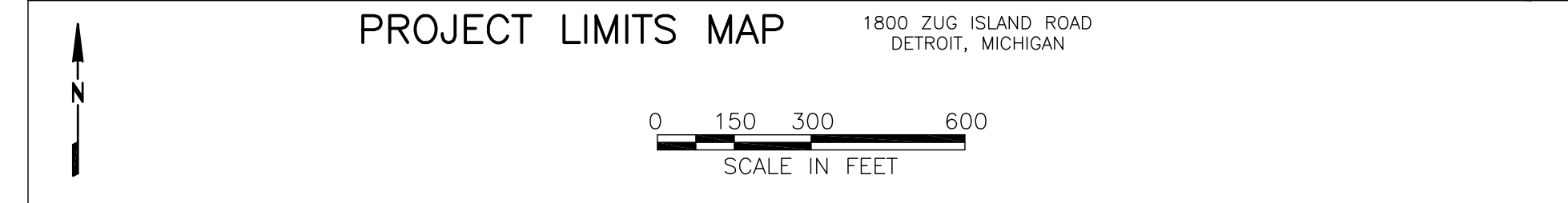
INCLUDED THIS SUBMITTAL	SHEET NUMBER	DRAWING TITLE	DISCIPLINE NUMBER
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SITE LOCATION MAP



PROJECT LIMITS MAP



- REFERENCE DRAWINGS**
- GROUNDWATER MITIGATION CONTROL SYSTEM, HONEYWELL INTERNATIONAL, INC. FORMER DETROIT TAR REFINERY - SITE No. 35057, DETROIT, MICHIGAN, PREPARED BY AMEC FOSTER WHEELER AND CONSISTING OF 20 DRAWINGS (REV 1, 90% DESIGN DRAWINGS, DATED MAY 16, 2016).
 - LOWER ROUGE RIVER OLD CHANNEL, ROUGE RIVER AREA OF CONCERN, DETROIT, MICHIGAN, 90% DESIGN, JUNE 17, 2009.

PREPARED FOR: **Honeywell**
101 COLUMBIA RD. BOX 2105, MORRISTOWN, NJ 07962

IN ASSOCIATION WITH: **ANCHOR QEA**
AND **EA**
EA Engineering, Science, and Technology, Inc., PBC

AND **EPA**

Honeywell
101 COLUMBIA RD. BOX 2105, MORRISTOWN, NJ 07962

LOWER ROUGE RIVER OLD CHANNEL
ROUGE RIVER AREA OF CONCERN
PERMANENT SHEETPILE WALL INSTALLATION
DETROIT, MICHIGAN
HONEYWELL SITE ID - 35057

DRAWING STATUS
100% DESIGN

GENERAL
COVER SHEET

amec foster wheeler
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511 Congress Street, Suite 200
Portland, ME 04112
(207) 775-5401

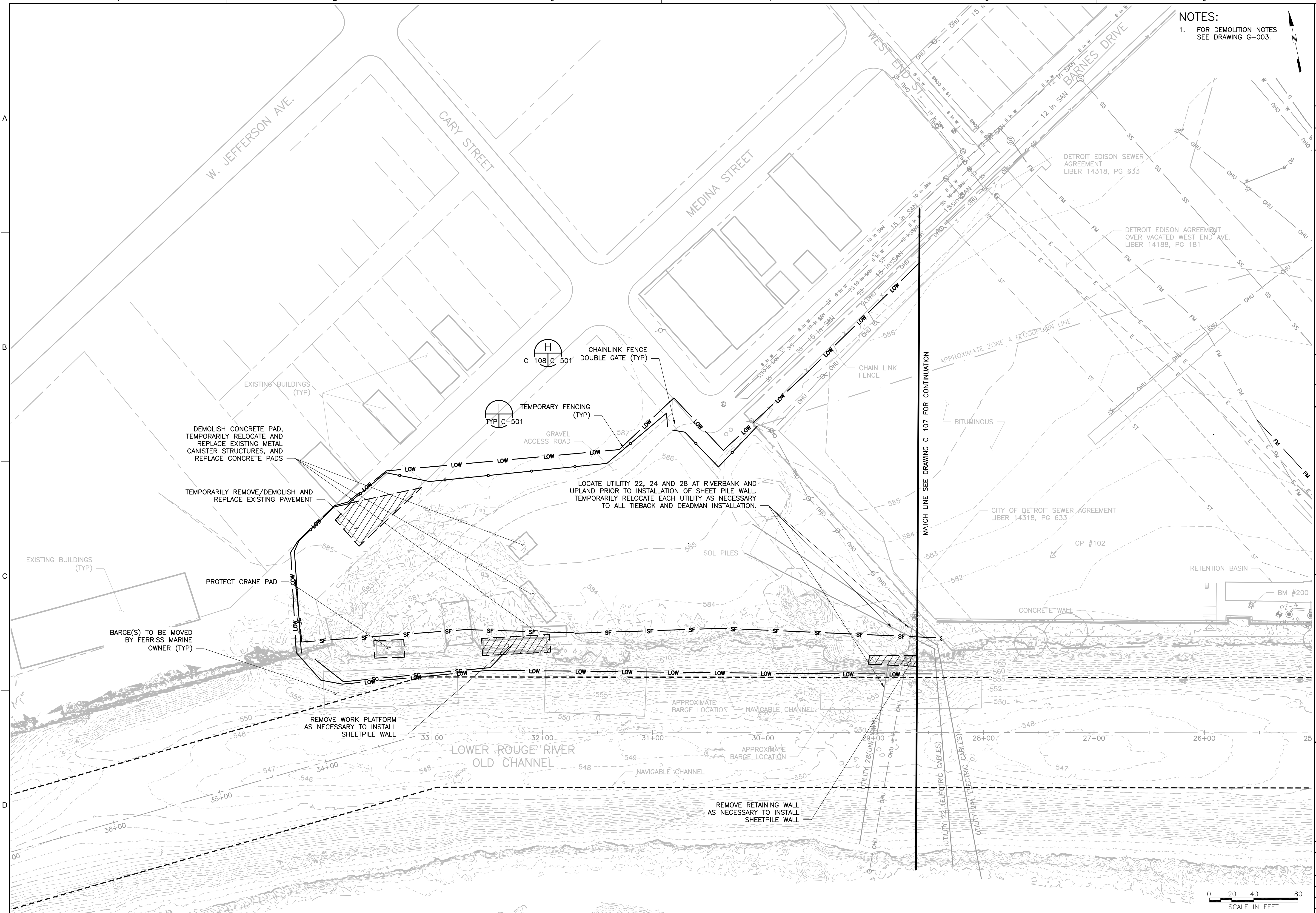
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DATE: JUNE 2016
PROJ: 3293-16-1667
DWG: G-001
SHEET: 1 OF 52

L. TRACY
APVD
L. STIRBAN
CHK
W. WHITTEN
DR
L. TRACY
DSGN
NO. DATE
1 6/17/16
2 8/08/16
3 3/03/17
JVM LNT
BY JAPVD
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90% DESIGN - CLIENT REVIEW
REVISION

L. TRACY
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NOTES:
 1. FOR DEMOLITION NOTES SEE DRAWING G-003.

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APVD	L. STIRBAN	
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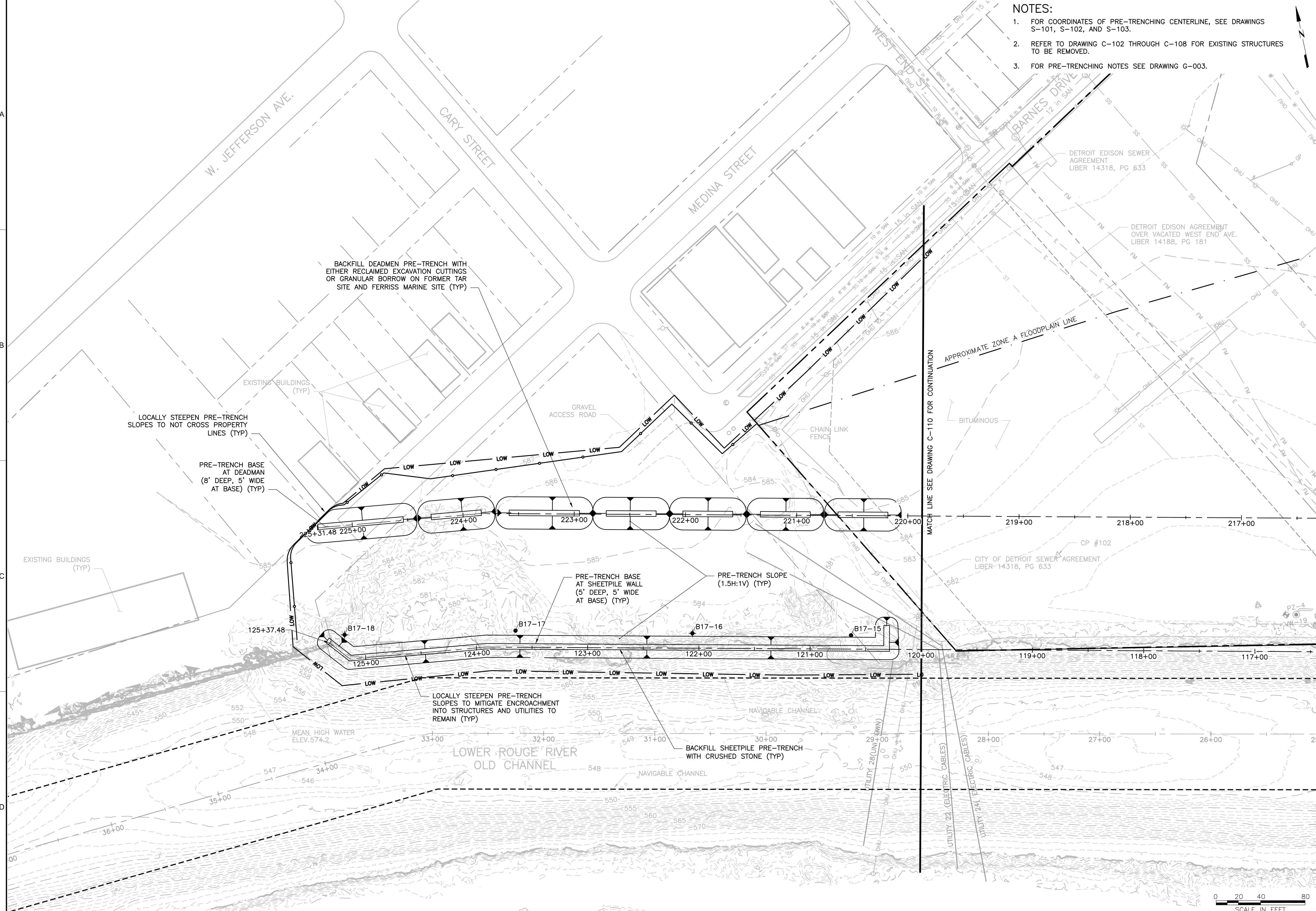
CIVIL
 SITE DEMOLITION PLAN
 (FERRISS)

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 DWG: C-108
 SHEET: 11 OF 52

- NOTES:**
- FOR COORDINATES OF PRE-TRENCH CENTERLINE, SEE DRAWINGS S-101, S-102, AND S-103.
 - REFER TO DRAWING C-102 THROUGH C-108 FOR EXISTING STRUCTURES TO BE REMOVED.
 - FOR PRE-TRENCHING NOTES SEE DRAWING G-003.

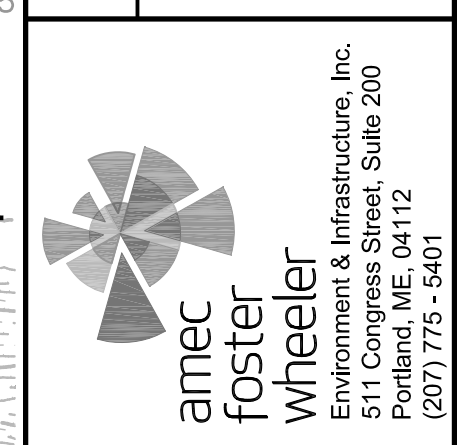


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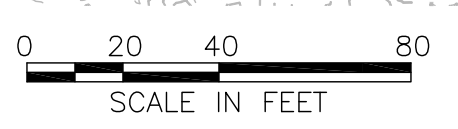
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 (FERRISS)



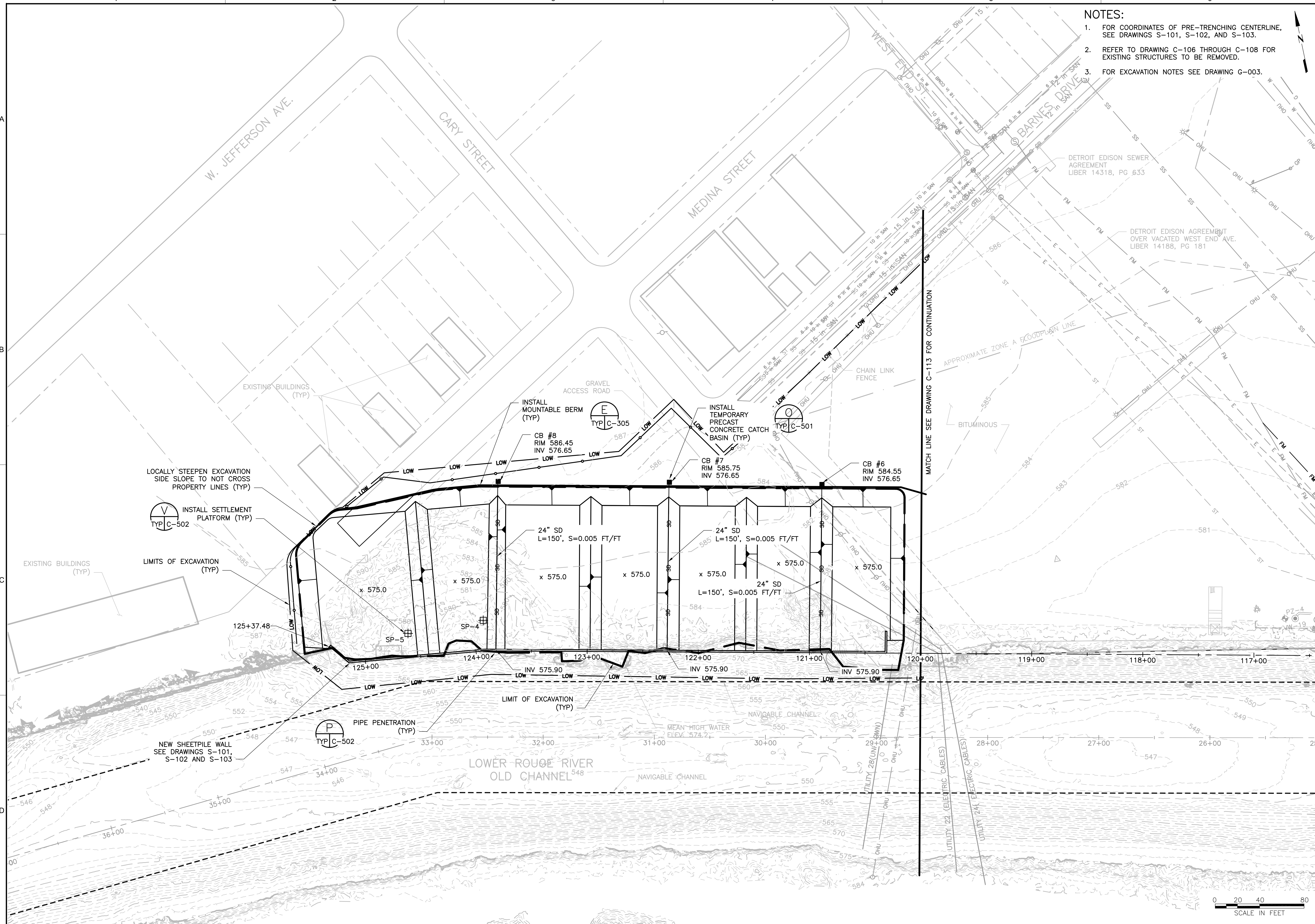
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- NOTES:**
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 - REFER TO DRAWING C-106 THROUGH C-108 FOR EXISTING STRUCTURES TO BE REMOVED.
 - FOR EXCAVATION NOTES SEE DRAWING G-003.

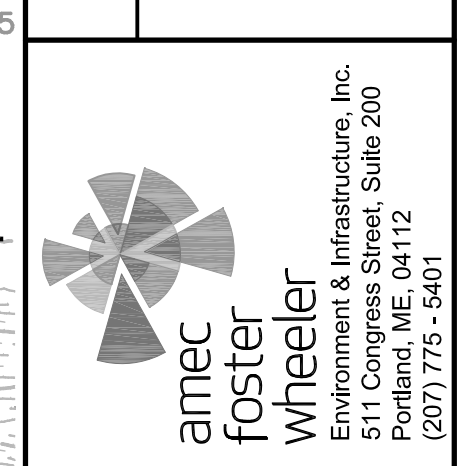


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APVD	L. STIRBAN	CHK

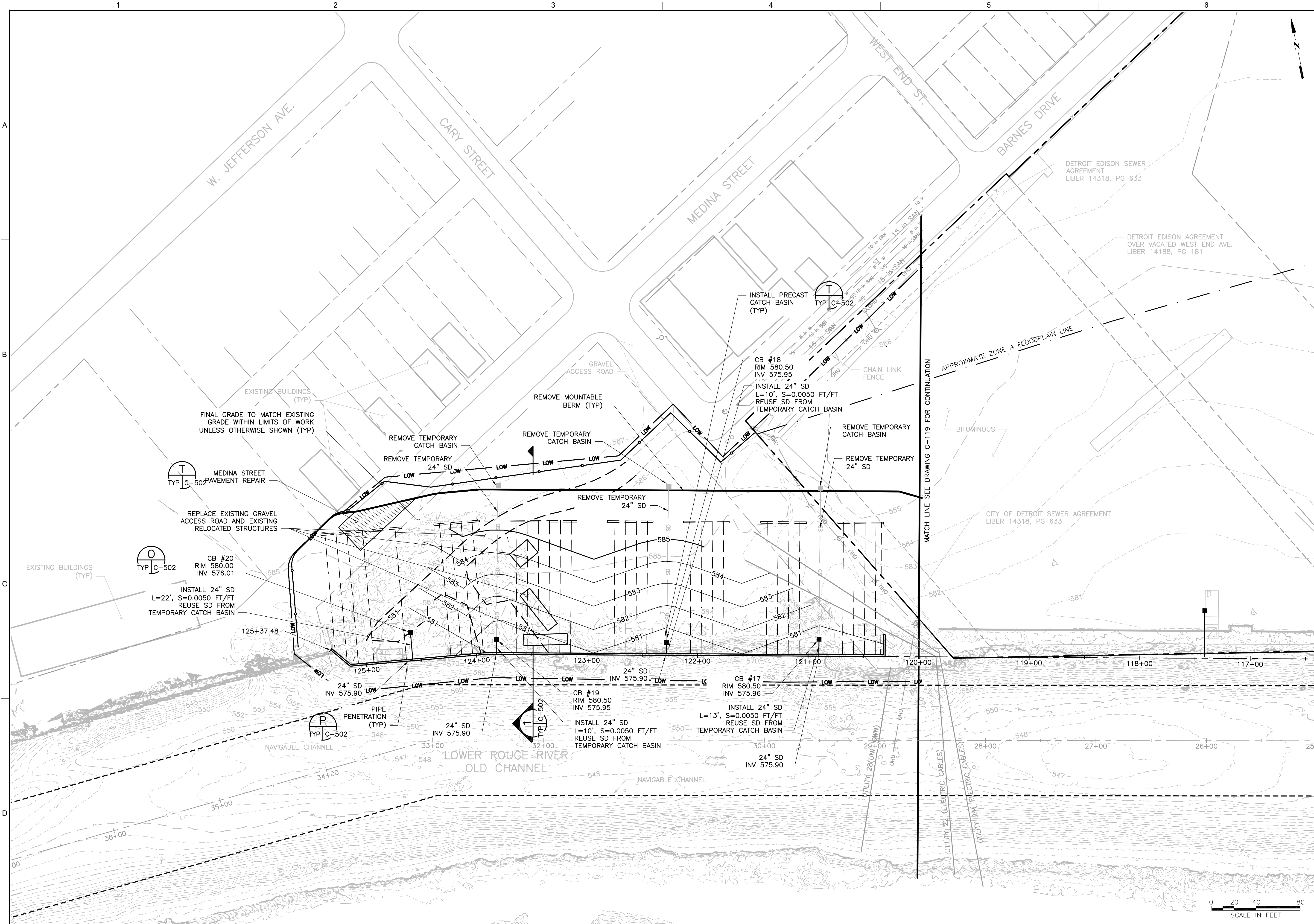
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EXCAVATION PLAN
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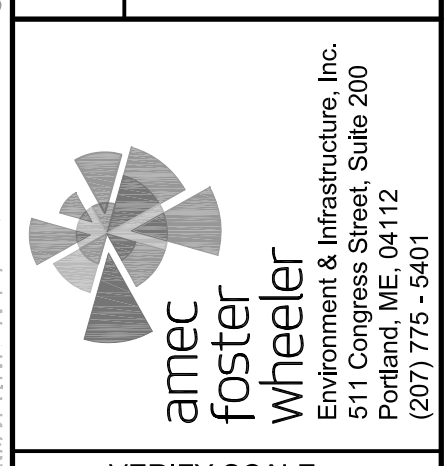


Lyle N Tracy
 MI PROFESSIONAL ENGINEER
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NO.	DATE	BY
DR	L. TRACY	APVD
CHK	J. MCKENZIE	CHK

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 101 COLUMBIA RD. BOX 2105, MORGANTOWN, W. VA. 26506
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**FINAL GRADING PLAN
 (FERRISS)**



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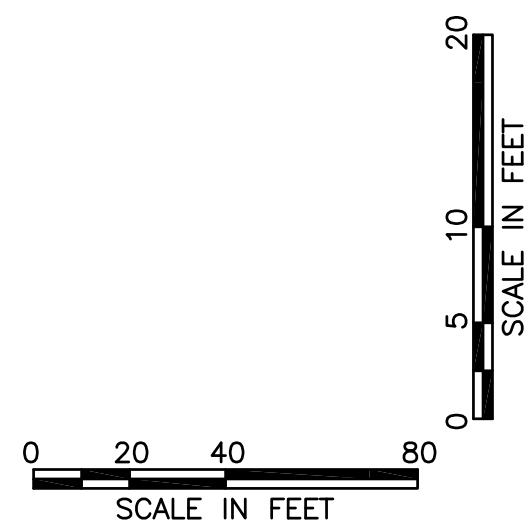
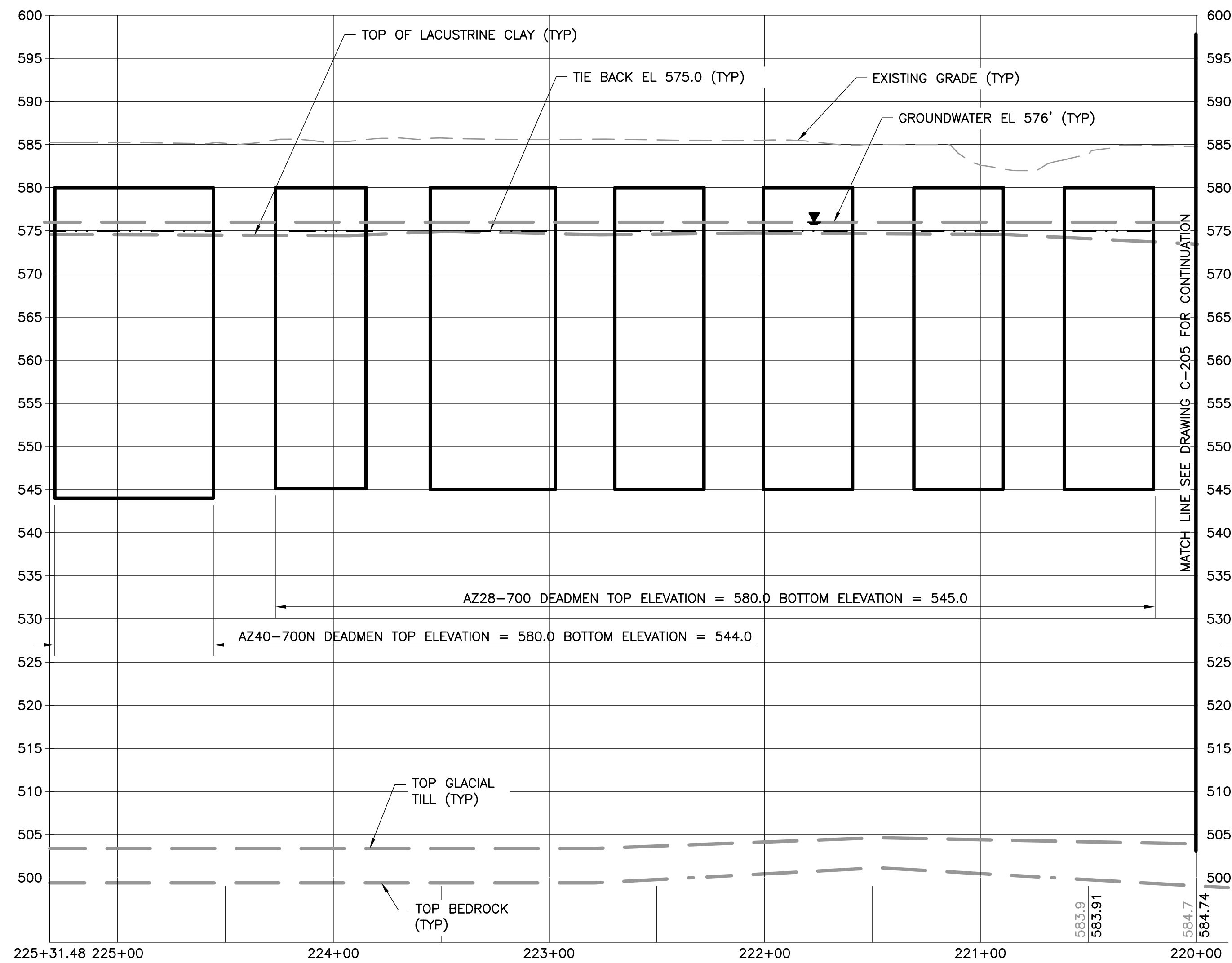
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L. TRACY		L. STIRBAN	
DSDN		APVD	
J. MCKENZIE		L. TRACY	
MI PROFESSIONAL ENGINEER		MI PROFESSIONAL ENGINEER	
LICENSE NUMBER Lic. NUM		LICENSE NUMBER Lic. NUM	

Honeywell
 101 COLUMBIA RD. BOX 2105, MERRISTOWN, NJ 07962
 LOWER ROUGE RIVER OLD CHANNEL
 ROUGE RIVER AREA OF CONCERN
 PERMANENT SHEPHE WALK INSTALLATION
 DETROIT, MICHIGAN
 HONEYWELL SITE ID - 35057

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 INTERPRETIVE SUBSURFACE
 PROFILE ALONG DEADMAN
 ALIGNMENT
 (FERRISS)

amec
 foster
 wheeler
 Environment & Infrastructure, Inc.
 511 Congress Street, Suite 200
 Portland, ME 04112
 (207) 775-5401

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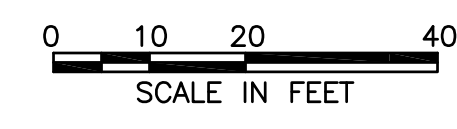
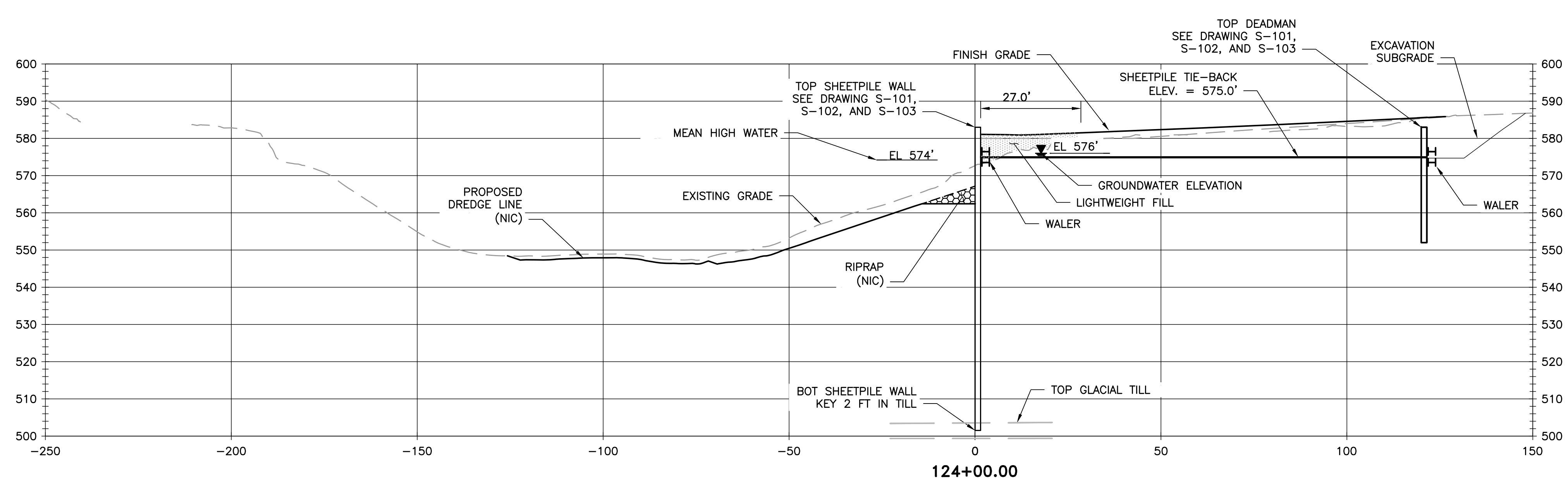
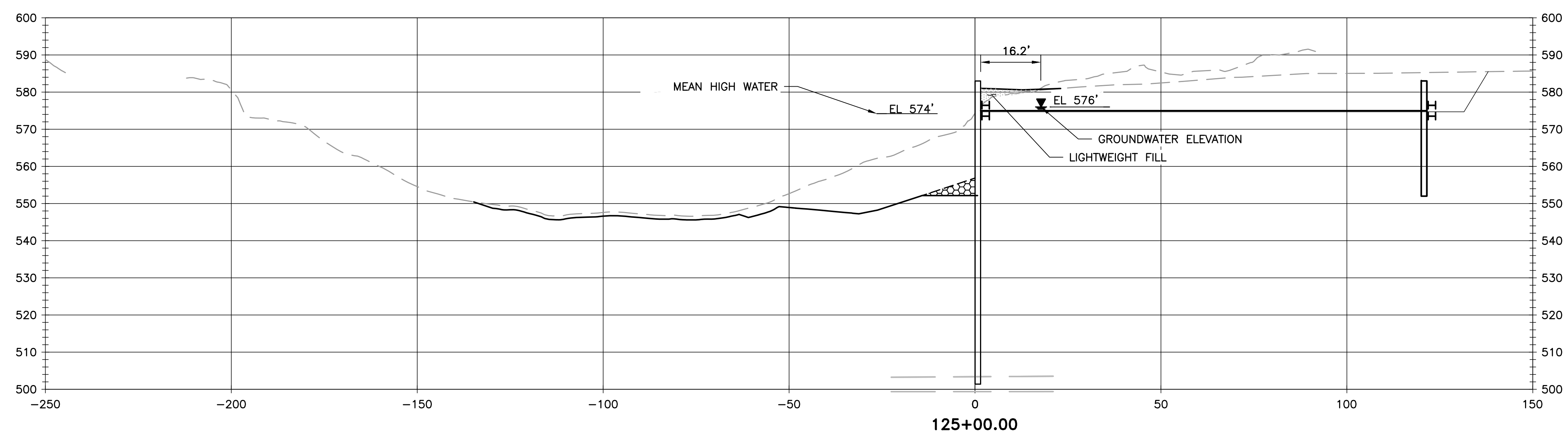
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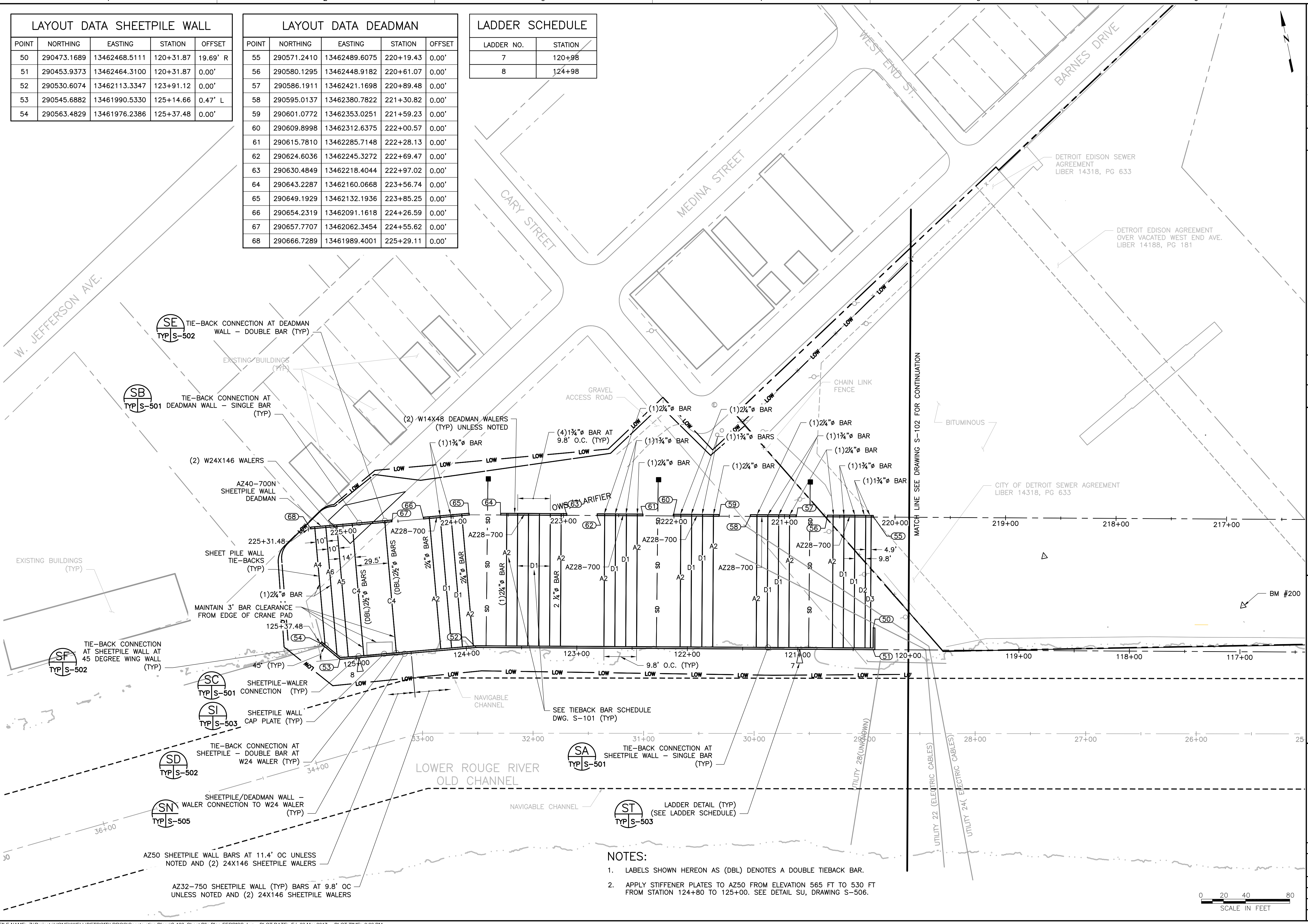
NOTES

1. BACKFILL DETAILS, EXCEPT LIGHTWEIGHT FILL, NOT SHOWN FOR CLARITY. SEE TYPICAL BACKFILL SECTION 1 ON DRAWING C-502 FOR DETAILS.
2. LIGHTWEIGHT FILL SHOWN FOR CLARIFICATION OF TYPICAL BACKFILL SECTION 1 ON DRAWING C-502.
3. FOR EXCAVATION LIMIT DETAILS SEE DRAWINGS C -115 THROUGH C-117.
4. WALERS SHOWN NOT TO SCALE FOR CLARITY.
5. DREDGE LINE SHOWN FOR INFORMATION PURPOSES - NOT IN THIS CONTRACT.



Honeywell <small>101 COLUMBIA RD. BOX 2105, MARSHTON, NJ 07962</small>		LOWER ROUGE RIVER OLD CHANNEL ROUGE RIVER AREA OF CONCERN PERMANENT SHEETPILE WALL INSTALLATION DETROIT, MICHIGAN HONEYWELL SITE ID - 35057	
		DRAWING STATUS 100% DESIGN	CIVIL CROSS SECTIONS STA 124+00 TO STA 125+00
amec foster wheeler <small>Environment & Infrastructure, Inc. 511 Congress Street, Suite 200 Portland, ME 04112 (207) 775-5401</small>		VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING 	
DATE JUNE 2016		PROJ 3293-16-1667	
DWG C-409		SHEET 40 OF 52	

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LAYOUT DATA SHEETPILE WALL				
POINT	NORTHING	EASTING	STATION	OFFSET
50	290473.1689	13462468.5111	120+31.87	19.69' R
51	290453.9373	13462464.3100	120+31.87	0.00'
52	290530.6074	13462113.3347	123+91.12	0.00'
53	290545.6882	13461990.5330	125+14.66	0.47' L
54	290563.4829	13461976.2386	125+37.48	0.00'

LAYOUT DATA DEADMAN				
POINT	NORTHING	EASTING	STATION	OFFSET
55	290571.2410	13462489.6075	220+19.43	0.00'
56	290580.1295	13462448.9182	220+61.07	0.00'
57	290586.1911	13462421.1698	220+89.48	0.00'
58	290595.0137	13462380.7822	221+30.82	0.00'
59	290601.0772	13462353.0251	221+59.23	0.00'
60	290609.8998	13462312.6375	222+00.57	0.00'
61	290615.7810	13462285.7148	222+28.13	0.00'
62	290624.6036	13462245.3272	222+69.47	0.00'
63	290630.4849	13462218.4044	222+97.02	0.00'
64	290643.2287	13462160.0668	223+56.74	0.00'
65	290649.1929	13462132.1936	223+85.25	0.00'
66	290654.2319	13462091.1618	224+26.59	0.00'
67	290657.7707	13462062.3454	224+55.62	0.00'
68	290666.7289	13461989.4001	225+29.11	0.00'

LADDER SCHEDULE	
LADDER NO.	STATION
7	120+98
8	124+98

Honeywell
101 COLUMBIA RD., SUITE 2105, MERRISTOWN, NJ 07962

LOWER ROUGE RIVER OLD CHANNEL
ROUGE RIVER AREA OF CONCERN
PERMANENT SHEETPILE WALL INSTALLATION
DETROIT, MICHIGAN
HONEYWELL SITE ID - 35057

100% DESIGN

USACE PERMIT RESPONSE

100% DESIGN - FOR REVIEW

90% DESIGN - CLIENT REVIEW

NO. 1 DATE

DR L. TRACY

CHK W. WHITTEN

APVD L. STIRBAN

MI PROFESSIONAL ENGINEER
LICENSE NUMBER Lic. NUM

DRAWING STATUS
100% DESIGN

STRUCTURAL

PERMANENT SHEET PILE WALL AND ANCHOR SYSTEM PLAN (FERRISS)

DATE JUNE 2016

PROJ 3293-16-1667

DWG S-103

SHEET 46 OF 52

- NOTES:**
- LABELS SHOWN HEREON AS (DBL) DENOTES A DOUBLE TIEBACK BAR.
 - APPLY STIFFENER PLATES TO AZ50 FROM ELEVATION 565 FT TO 530 FT FROM STATION 124+80 TO 125+00. SEE DETAIL SU, DRAWING S-506.



EXISTING BUILDINGS
(TYP)

65

66

68

MEDINA STREET

LOCALLY STEEPEN EXCAVATION SIDE SLOPE TO NOT CROSS PROPERTY LINES OR USE SHORING TO KEEP EXCAVATION LIMITS WITHIN 5' OF THE DEADMAN ALIGNMENT ON THE NORTH SIDE OF MEDINA STREET. (TYP)

PROPOSED MEDINA STREET CLOSURE

DEADMAN (TYP)

TIEBACKS (TYP)

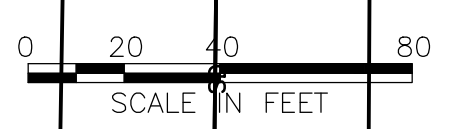
LIMIT OF EXCAVATION

225+31.48

225+00

224+00

125+37.48

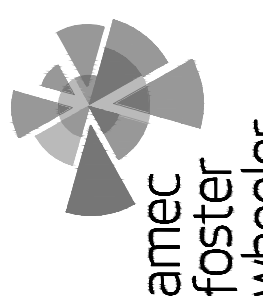


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LOWER ROUGE RIVER OLD CHANNEL
ROUGE RIVER AREA OF CONCERN
PERMANENT SHEETPILE WALL INSTALLATION
DETROIT, MICHIGAN
HONEYWELL SITE ID - 35057

DRAWING STATUS
ISSUED CONSTRUCTION - DRAFT

PROPOSED MEDINA STREET
CLOSURE



VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DATE	
PROJ	3293-16-1667
DWG	
SHEET	OF 53

MI PROFESSIONAL ENGINEER
LICENSE NUMBER

BY JAPVD

APVD

REVISION (CHK)

DR

NO. DATE

DSGN

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EXISTING BUILDINGS
(TYP)

PROPOSED MEDINA
STREET CLOSURE

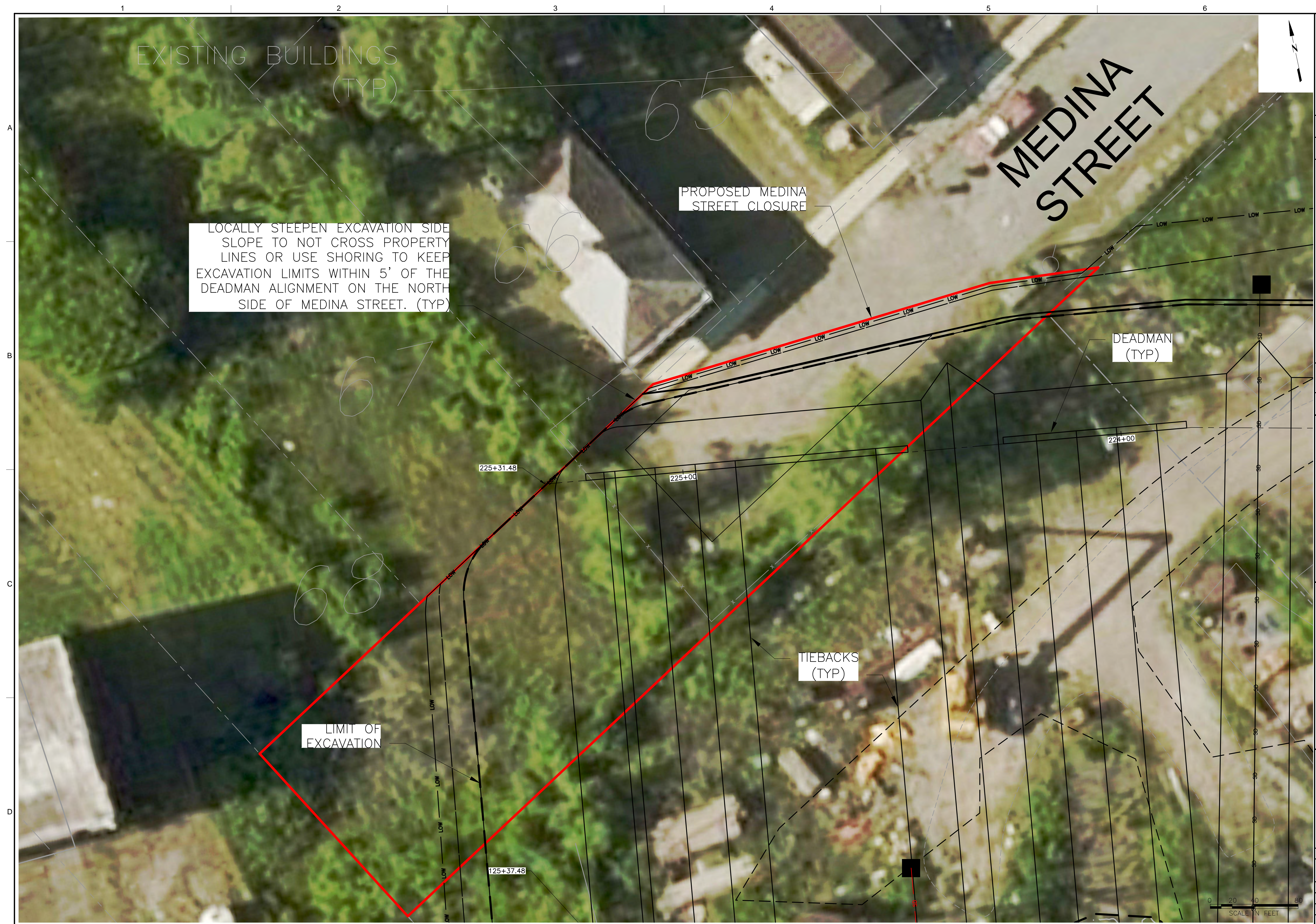
MEDINA
STREET

LOCALLY STEEPEN EXCAVATION SIDE
SLOPE TO NOT CROSS PROPERTY
LINES OR USE SHORING TO KEEP
EXCAVATION LIMITS WITHIN 5'
OF THE DEADMAN ALIGNMENT ON THE NORTH
SIDE OF MEDINA STREET. (TYP)

DEADMAN
(TYP)

TIEBACKS
(TYP)

LIMIT OF
EXCAVATION



<p>101 COLUMBIA RD. BOX 2105, MORRISTOWN, NJ 07962</p>		<p>MI PROFESSIONAL ENGINEER LICENSE NUMBER</p>	
<p>DRAWING STATUS - DRAFT</p>		<p>NO. DATE</p>	
<p>ISSUED CONSTRUCTION - DRAFT</p>		<p>REVISION (CHK)</p>	
<p>PROPOSED MEDINA STREET CLOSURE</p>		<p>DR</p>	
<p>Environment & Infrastructure, Inc. 511 Congress Street, Suite 200 Portland, ME 04112 (207) 775-5401</p>		<p>BY (APVD)</p>	
<p>VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING</p>		<p>APVD</p>	
<p>DATE</p>		<p>NO. DATE</p>	
<p>PROJ 3293-16-1667</p>		<p>DR</p>	
<p>DWG</p>		<p>NO. DATE</p>	
<p>SHEET OF 53</p>		<p>NO. DATE</p>	

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