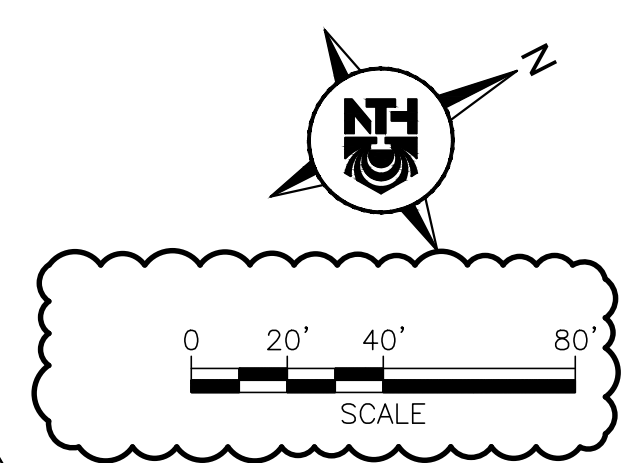


LEGEND

- EXISTING PROPERTY BOUNDARY
- EXISTING BUILDING
- EXISTING ASPHALT PAVEMENT
- EXISTING CONCRETE PAVEMENT
- EXISTING GRAVEL
- EXISTING LANDSCAPING/LAWN AREA
- EXISTING FENCE
- EXISTING BOLLARD POST
- EXISTING SIGN
- EXISTING LIGHT POLE
- EXISTING RAILROAD
- EXISTING HYDRANT
- EXISTING WATERMAIN
- EXISTING UNDERGROUND ELECTRIC
- EXISTING ELECTRICAL STRUCTURES
- EXISTING GAS STRUCTURES
- EXISTING GAS LINE
- EXISTING STORM SEWER
- EXISTING STORM STRUCTURES
- EXISTING SANITARY SEWER
- EXISTING SANITARY MANHOLE
- EXISTING FLOOR DRAINS
- EXISTING ASPHALT PAVEMENT TO BE REMOVED
- EXISTING CONCRETE PAVEMENT TO BE REMOVED
- EXISTING GRAVEL TO BE REMOVED
- EXISTING LANDSCAPING/LAWN AREA TO BE REMOVED
- EXISTING FENCE TO BE REMOVED
- EXISTING BOLLARD POST TO BE REMOVED
- EXISTING STORM PIPE TO BE REMOVED
- EXISTING STORM PIPE TO BE ABANDONED
- EXISTING STORM STRUCTURES TO BE REMOVED
- EXISTING FLOOR DRAINS TO BE REMOVED
- APPROXIMATE LOCATION OF UNDERGROUND STORAGE TANK

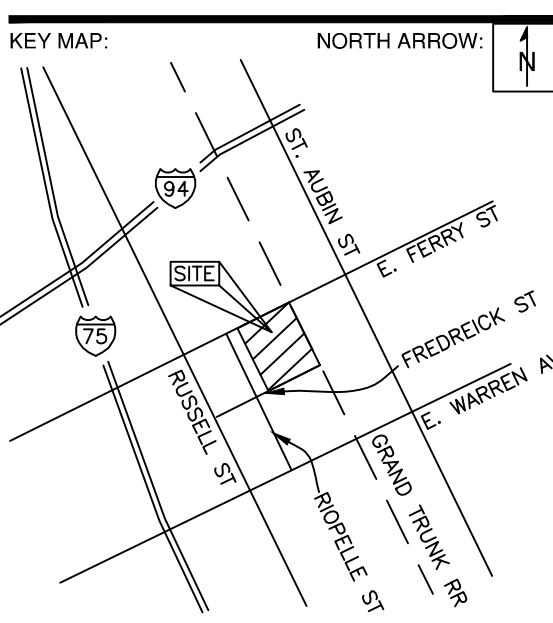


DEMOLITION NOTES

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2. ALL SITE FEATURES AND UTILITIES TO BE DEMOLISHED ARE SHOWN IN BOLD. CONTRACTOR TO PROTECT ALL EXISTING ITEMS TO REMAIN.
3. PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL FEES REQUIRED BY AUTHORITIES HAVING JURISDICTION (AHJ).
4. PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL PHOTOGRAPH OR VIDEOTAPE ALL EXISTING CONDITIONS OF NEARBY PUBLIC AND PRIVATE PROPERTY, INCLUDING STRUCTURES, ROADS, EASEMENTS, SIDEWALKS, ETC.
5. PRIOR TO DEMOLITION, ALL REQUIRED SOIL EROSION AND SEDIMENT CONTROL DEVICES ARE TO BE INSTALLED AND REQUISITE PART 91 PERMIT OBTAINED.
6. CONTRACTOR SHALL MAINTAIN ALL EXISTING ROADS, SIDEWALKS, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC AT ALL TIMES.
7. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, TRAFFIC CONTROL, ETC. CONFORMING TO BEST PRACTICES AND LOCAL REQUIREMENTS.
8. THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE OWNER AND OWNERS REPRESENTATIVE ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND INFORMING THE OWNER AND ENGINEER OF ANY DEVIATIONS PRIOR TO BEGINNING DEMOLITION WORK.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL OF ALL STRUCTURES, WALLS, ASPHALT AND CONCRETE AND OTHER ITEMS SHOWN FOR DEMOLITION. ALL EXISTING ASPHALT AND CONCRETE TO BE REMOVED SHALL BE DISPOSED IN AN ENVIRONMENTALLY LEGAL MANNER.
10. SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE ANY EXISTING STRUCTURE AND/OR ITEM PROPOSED TO REMAIN ON ADJACENT PROPERTIES, THEN THE CONTRACTOR SHALL MAKE ALL NECESSARY REPAIRS AT THEIR OWN EXPENSE. ALL CONSTRUCTION MATERIALS SHALL BE OF EQUAL OR HIGHER QUALITY AND SHALL BE APPROVED BY THE ENGINEER.

3 WORKING DAYS BEFORE YOU DIG CALL MISS DIG 1-800-482-7171
For the location of public utility lines, consult the following utility location:
ALTERNATE NUMBER (811) TOLL FREE FOR UTILITY LOCATING:
Yellow: Gas Blue: Water
Orange: Electric Green: Storm Drain
Red: Fire Purple: Sewer
If you are going to work near overhead wires - call MGS DC

SEAL/STAMP:



REVISION BLOCK	
REV	DATE/DESCRIPTION
ADDENDUM NO. 1	03/12/2025

SUBMITTAL LOG	
DATE	PACKAGE NAME
2023-12-19	75% DRAWINGS
2024-03-06	90% DRAWINGS
2025-01-31	ISSUED FOR BID
2025-03-07	BULLETIN NO. 1

PROJECT NAME:
MDOT DETROIT GARAGE STORM SEWER RECONSTRUCTION

PROJECT LOCATION:
**1500 E. FERRY STREET
DETROIT, MICHIGAN**

DESIGNED BY:	NTH PROJECT NO.:
KBH	23001451
DRAWN BY:	SHEET SIZE:
KBH	ARCH D (24"x36")
CHECKED BY:	DATE:
SLG, DRL	3/11/2025
CAD FILE NAME:	
C-103 DEMOLITIONS PLAN	

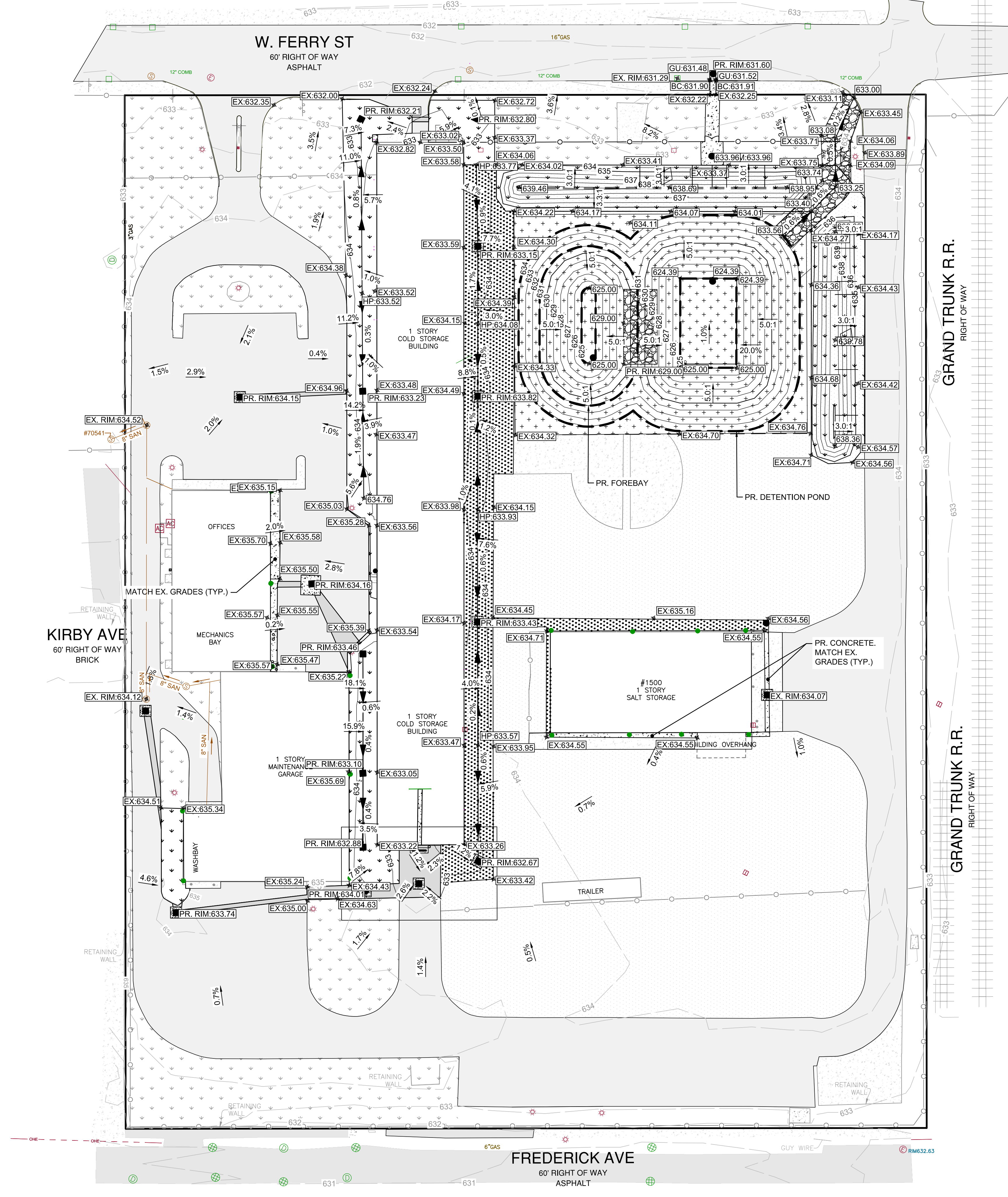
SHEET TITLE:
DEMOLITION PLAN

BULLETIN NO. 1

DTMB FILE NO. 591.22274.MNB

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3/2025/23001451 production web\midwest_group\stormwater_improvement\23001451-prod.dwg Plot Date: 3/11/2025 11:13 PM by Kelsi Houston

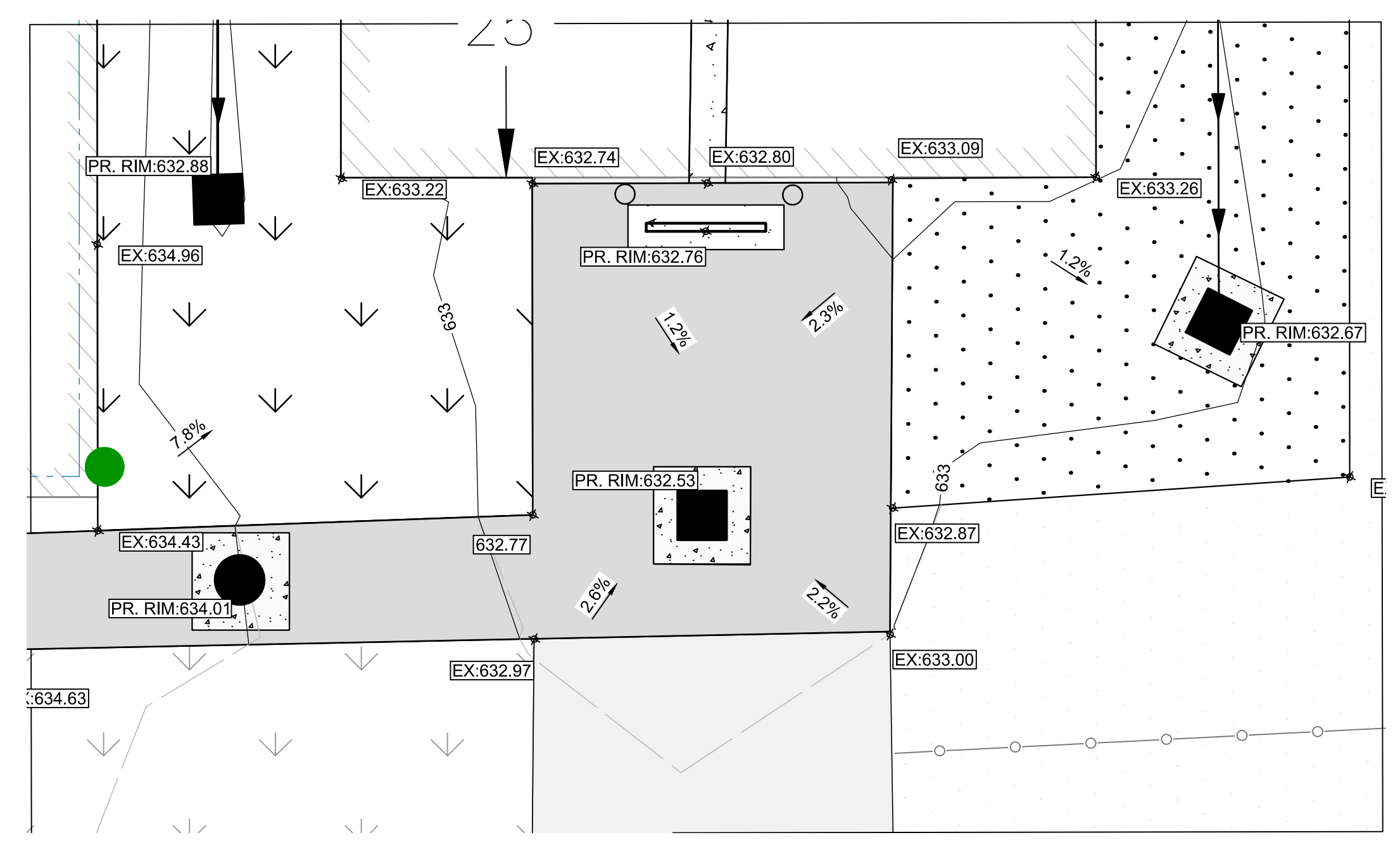
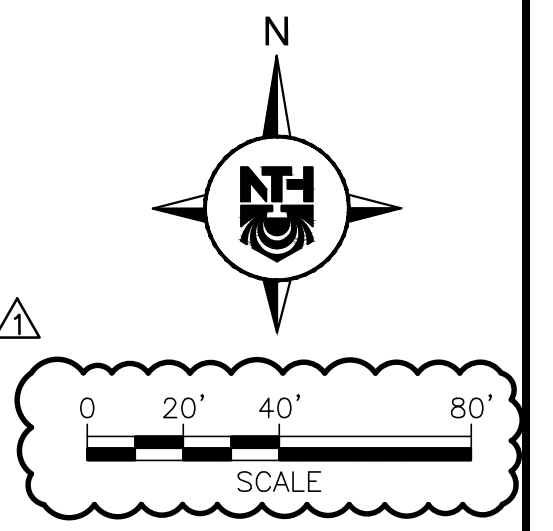


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6. ALL EXISTING SITE FEATURES SHALL BE PROTECTED UNLESS OTHERWISE INDICATED ON PLANS.
7. ALL EXISTING AND PROPOSED STORMWATER/SANITARY DRAINAGE STRUCTURES WITHIN PAVED AREAS SHALL HAVE CONCRETE BOXOUTS ADDED, PER CIVIL DETAILS SHEETS.
8. ALL GREEN AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED AND MULCHED WITH 3" TOPSOIL AND MDT CLASS A SEED WHERE FINAL EARTH STABILIZATION MEASURES ARE NOT SPECIFICALLY DESIGNATED.
9. CONFIRM UTILITY STRUCTURE FRAME AND GRATE WITH ENGINEER PRIOR TO INSTALLATION.
10. NON-SHRINK GROUT SHALL NOT CONTAIN ANY GYPSUM MATERIAL.

LEGEND

- EXISTING PROPERTY BOUNDARY
- EXISTING BUILDING
- EXISTING CONTOURS
- EXISTING ASPHALT PAVEMENT
- EXISTING CONCRETE PAVEMENT
- EXISTING GRAVEL
- EXISTING RIP-RAP/LARGE STONE
- EXISTING LANDSCAPING/LAWN AREA
- EXISTING FENCE
- EXISTING RAILROAD
- EXISTING BOLLARD POST
- EXISTING LIGHT POLE
- EXISTING HYDRANT
- EXISTING STORM STRUCTURE
- EXISTING SANITARY MANHOLE
- EXISTING FLOOR DRAINS
- EXISTING ELECTRICAL STRUCTURES
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED GRAVEL
- PROPOSED STORM WATER DETENTION AREA
- PROPOSED LANDSCAPING/LAWN AREA
- PROPOSED RIP-RAP/LARGE STONE
- PROPOSED FENCE
- PROPOSED BOLLARD
- PROPOSED RIDGE LINE
- PROPOSED DRAINAGE DITCH
- PROPOSED STORM STRUCTURES
- PROPOSED DOWNSPOUT
- PROPOSED STORM CLEANOUT
- PROPOSED CONTOURS
- PROPOSED SLOPE ARROW
- PROPOSED SPOT ELEVATION
- EXISTING SPOT ELEVATION
- EXISTING RIM SPOT ELEVATION
- PROPOSED RIM SPOT ELEVATION
- PROPOSED HIGH POINT



SCALE: 1" = 20'

BULLETIN NO. 1

DTMB FILE NO. 591_22274.MNB

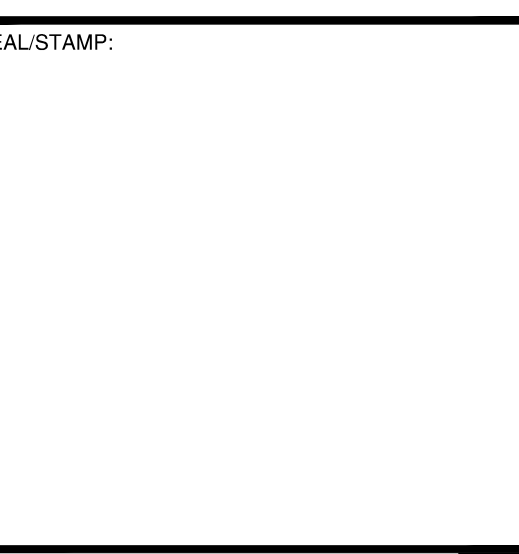
STATE OF MICHIGAN
 DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
 STATE FACILITIES ADMINISTRATION
 DESIGN AND CONSTRUCTION DIVISION
 ADAM P. LACH, RA, DIRECTOR

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MDOT
 Michigan Department of Transportation



KEY MAP: NORTH ARROW: ↑

REVISION BLOCK	
REV	DATE: DESCRIPTION
1	ADDENDUM NO. 1 03/12/2025

SUBMITTAL LOG	
DATE	PACKAGE NAME
2023-12-19	75% DRAWINGS
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2025-03-07	BULLETIN NO. 1

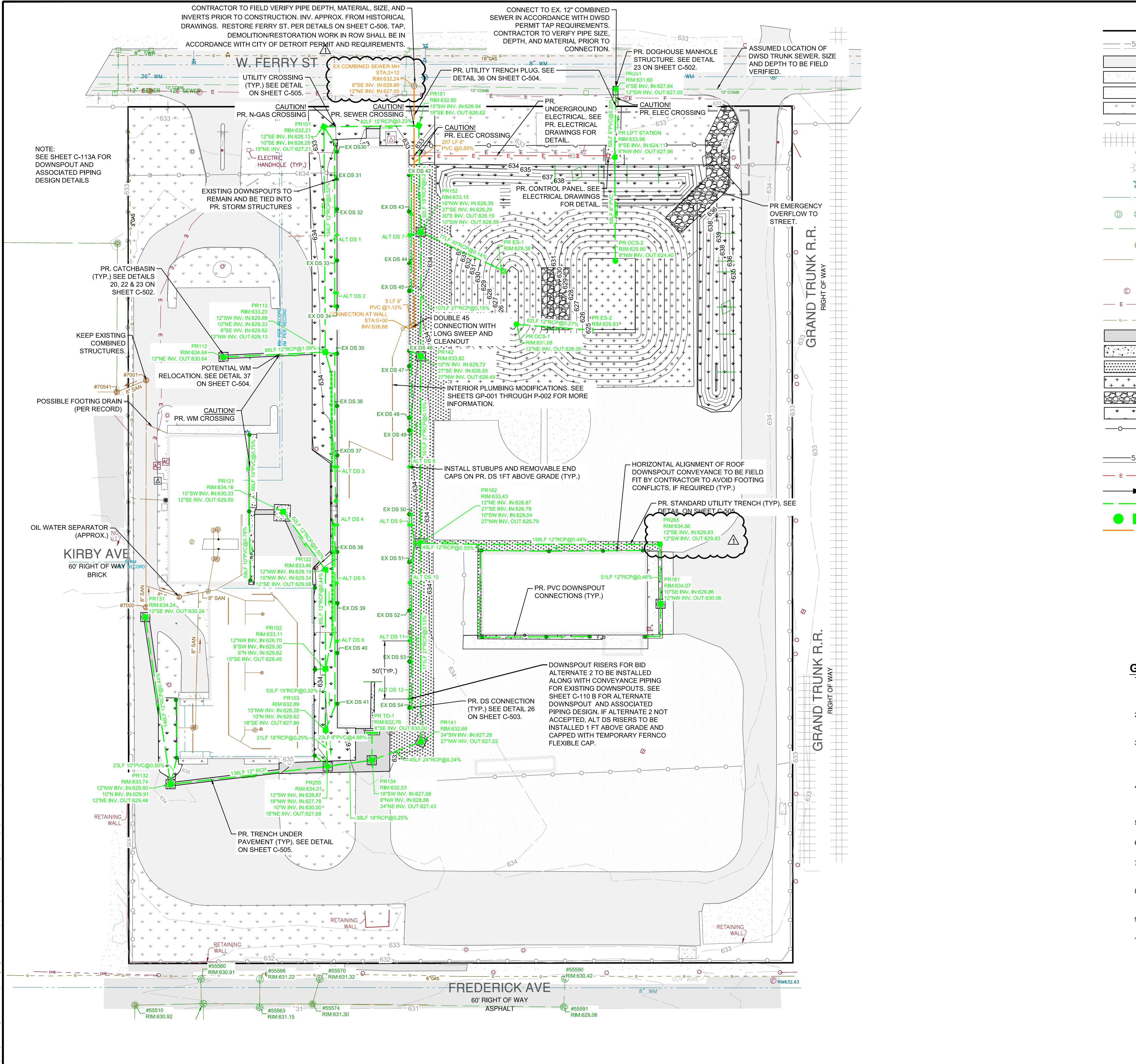
PROJECT NAME:
**MDOT DETROIT GARAGE
 STORM SEWER
 RECONSTRUCTION**

PROJECT LOCATION:
**1500 E. FERRY STREET
 DETROIT, MICHIGAN**

DESIGNED BY:	NTH PROJECT NO.:
KBH	23001451
DRAWN BY:	SHEET SIZE:
KBH	ARCH D (24"x36")
CHECKED BY:	DATE:
SLG, DRL	3/11/2025
CAD FILE NAME:	
23001451-GRADE	

SHEET TITLE:
**PROPOSED GRADING
 PLAN**

SHEET NUMBER:
C-109



LEGEND

- EXISTING PROPERTY BOUNDARY
- EXISTING CONTOURS
- EXISTING ASPHALT PAVEMENT
- EXISTING CONCRETE PAVEMENT
- EXISTING GRAVEL
- EXISTING LANDSCAPING/LAWN AREA
- EXISTING FENCE
- EXISTING RAILROAD
- EXISTING BOLLARD POST
- EXISTING LIGHT POLE
- EXISTING HYDRANT
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- EXISTING STORM SEWER
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY SEWER
- EXISTING FLOOR DRAINS
- EXISTING ELECTRICAL STRUCTURES
- EXISTING ELECTRICAL UNDERGROUND
- EXISTING GAS LINE
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED GRAVEL
- PROPOSED STORM WATER DETENTION AREA
- PROPOSED RIPRAP
- PROPOSED LANDSCAPING/LAWN AREA
- PROPOSED FENCE
- PROPOSED BOLLARD
- PROPOSED CONTOURS
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED DRAINAGE DITCH
- PROPOSED STORM SEWER
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY CLEANOUT

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- NON-SHRINK GROUT SHALL NOT CONTAIN ANY GYPSUM MATERIAL.

BULLETIN NO. 1

DTMB FILE NO. 591_22274.MNB

STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATE FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ADAM P. LACH, RA, DIRECTOR

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www.nthconsultants.com

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Detroit, MI Grand Rapids, MI
Livonia, MI (Laboratory)

3 WORKING DAYS
**BEFORE YOU DIG
CALL MISS DIG
1-800-482-7171**
For the location of public utility lines.
ALTERNATE NUMBER (811)
TOLL FREE 1-800-482-7171

Yellow Dig Box Blue Meter
Orange Electric Green Storm Drain
Red Gas Purple Sanitary Sewer

IF YOU ARE GOING TO WORK NEAR OVERHEAD WIRES - CALL MEG DE

MDOT
Michigan Department of Transportation

SEAL STAMP:

KEY MAP:

REVISION BLOCK

REV	DATE	DESCRIPTION
1	03/12/2025	ADDENDUM NO. 1

SUBMITTAL LOG

DATE	PACKAGE NAME
2023-12-19	75% DRAWINGS
2024-03-06	90% DRAWINGS
2025-01-31	ISSUED FOR BID
2025-03-07	BULLETIN NO. 1

PROJECT NAME:
MDOT DETROIT GARAGE STORM SEWER RECONSTRUCTION

PROJECT LOCATION:
**1500 E. FERRY STREET
DETROIT, MICHIGAN**

DESIGNED BY: NTH PROJECT NO.:
KBH 23001451

DRAWN BY: SHEET SIZE:
KBH ARCH D (24"x36")

CHECKED BY: DATE:
SLG, DRL 3/11/2025

CAD FILE NAME:
23001451-STRM

SHEET TITLE:
PROPOSED UTILITY PLAN

SHEET NUMBER:
C-110 A

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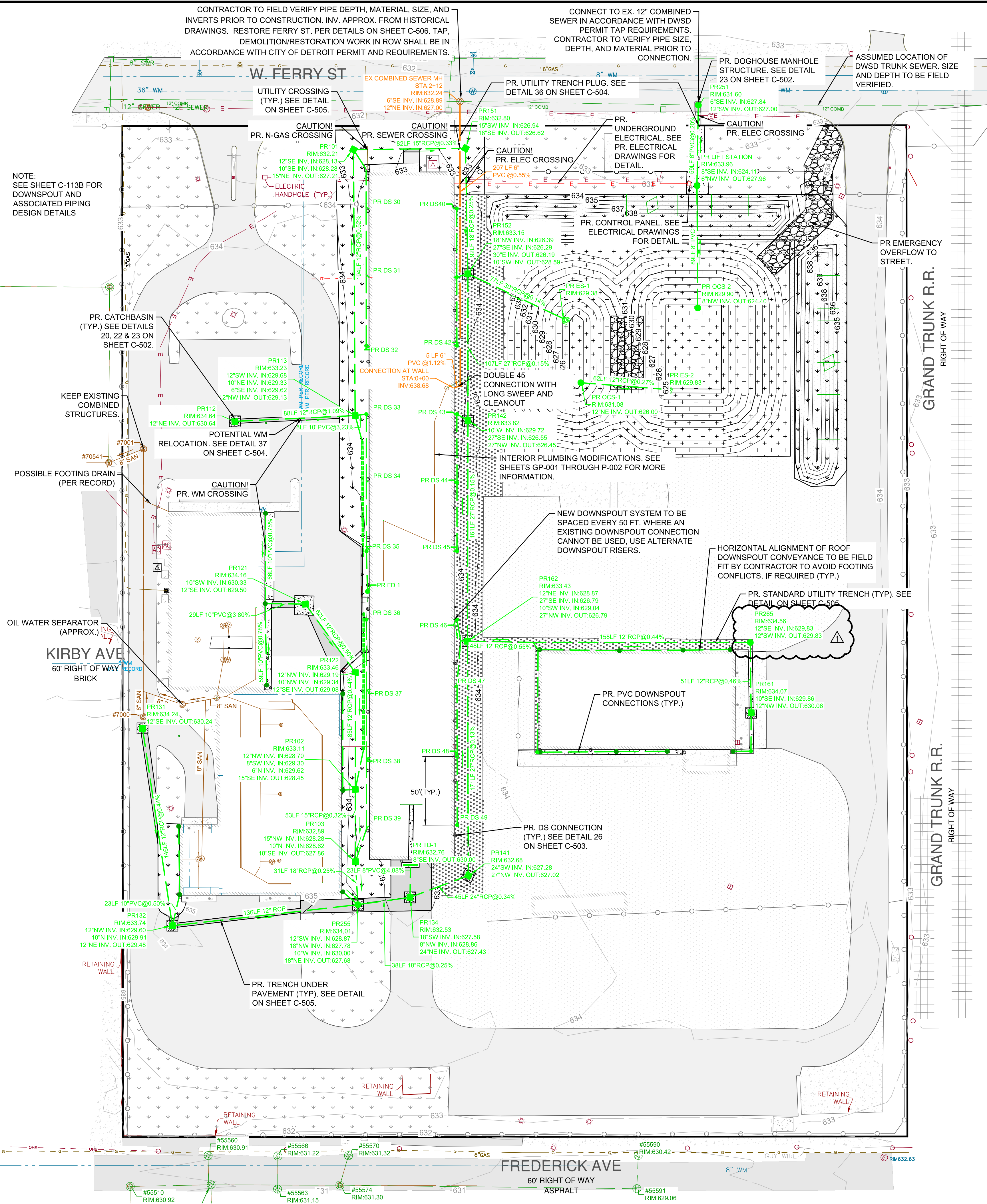
3/11/2025 7:13 PM by Helen Houston
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CONTRACTOR TO FIELD VERIFY PIPE DEPTH, MATERIAL, SIZE, AND INVERTS PRIOR TO CONSTRUCTION. INV. APPROX. FROM HISTORICAL DRAWINGS. RESTORE FERRY ST., PER DETAILS ON SHEET C-506. TAP, DEMOLITION/RESTORATION WORK IN ROW SHALL BE IN ACCORDANCE WITH CITY OF DETROIT PERMIT AND REQUIREMENTS.

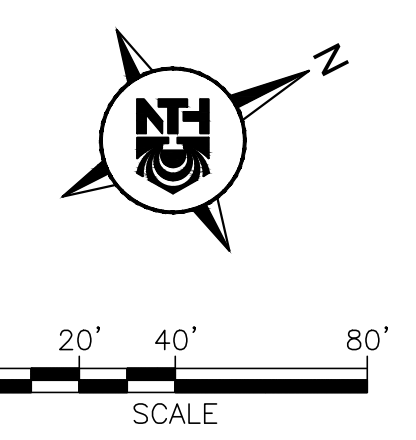
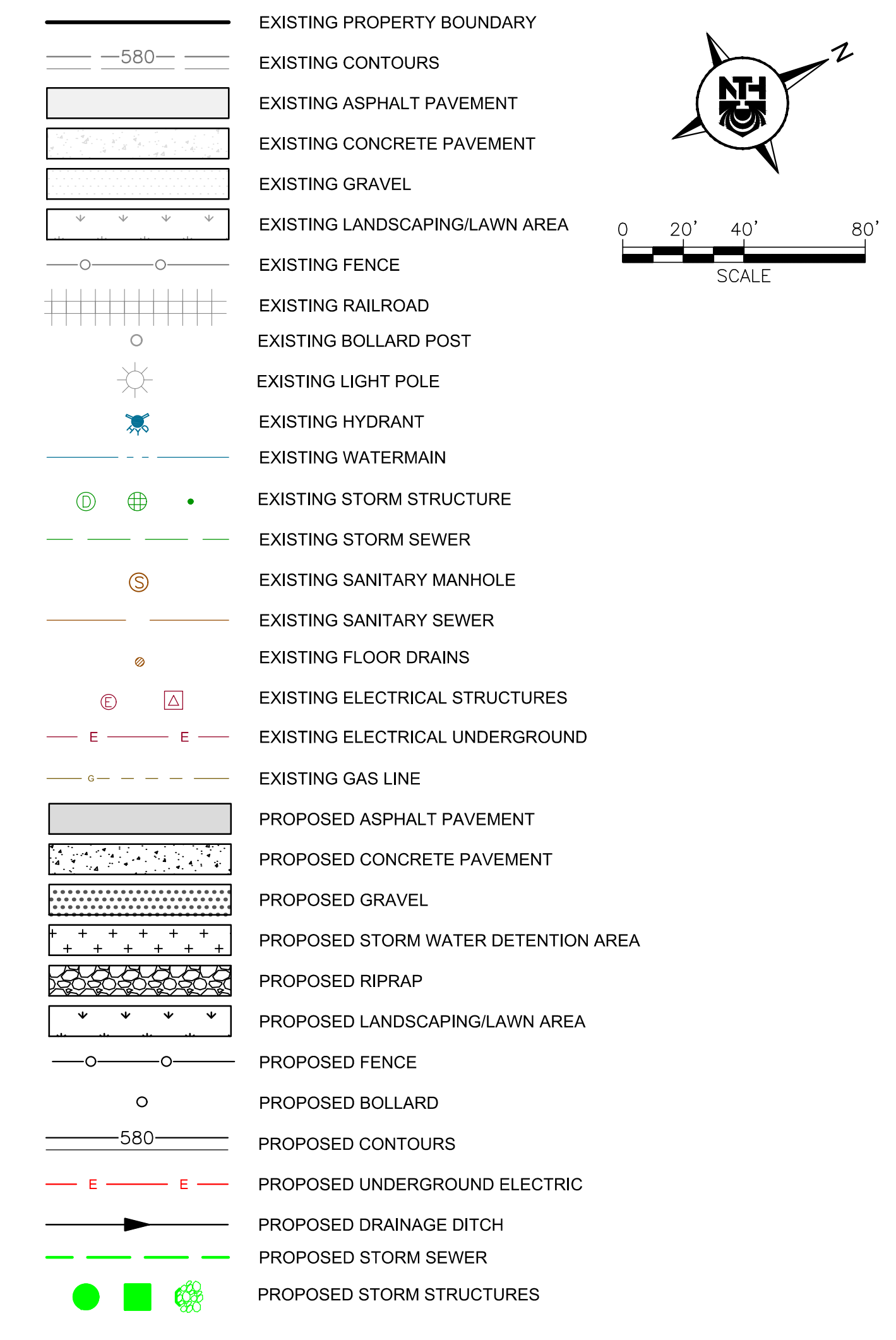
CONNECT TO EX. 12" COMBINED SEWER IN ACCORDANCE WITH DWSD PERMIT TAP REQUIREMENTS. CONTRACTOR TO VERIFY PIPE SIZE, DEPTH, AND MATERIAL PRIOR TO CONNECTION.

ASSUMED LOCATION OF DWSD TRUNK SEWER, SIZE AND DEPTH TO BE FIELD VERIFIED.

NOTE:
 SEE SHEET C-113B FOR
 DOWNSPOUT AND
 ASSOCIATED PIPING
 DESIGN DETAILS



LEGEND



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ALTERNATE 2

DTMB FILE NO. 591 22274.MNB
 STATE OF MICHIGAN
 DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
 STATE FACILITIES ADMINISTRATION
 DESIGN AND CONSTRUCTION DIVISION
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MDOT
 Michigan Department of Transportation

SEAL/STAMP:
 KEY MAP:

REVISION BLOCK

REV	DATE	DESCRIPTION
1	03/12/2025	ADDENDUM NO. 1

SUBMITTAL LOG

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2023-12-19	75% DRAWINGS
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PROJECT NAME:
**MDOT DETROIT GARAGE
 STORM SEWER
 RECONSTRUCTION**
 PROJECT LOCATION:
**1500 E. FERRY STREET
 DETROIT, MICHIGAN**

DESIGNED BY: KBH	NTH PROJECT NO.: 23001451
DRAWN BY: KBH	SHEET SIZE: ARCH D (24"x36")
CHECKED BY: SLG	DATE: 3/11/2025
CAD FILE NAME: 23001451-STRM	

SHEET TITLE:
**PROPOSED UTILITY PLAN -
ALTERNATE 2**

SHEET NUMBER:
C-110 B



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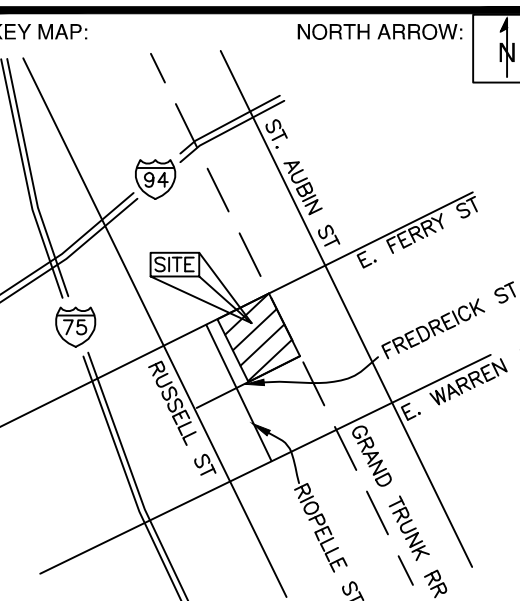
Yellow	Gas	Blue	Water
Orange	Electric	Green	Storm Drain
Red	Telephone	Pink	Sewer

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Michigan Department of Transportation

SEAL/STAMP:



REVISION BLOCK	
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DATE	PACKAGE NAME
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2025-03-07	BULLETIN NO. 1

PROJECT NAME:
**MDOT DETROIT GARAGE
STORM SEWER
RECONSTRUCTION**

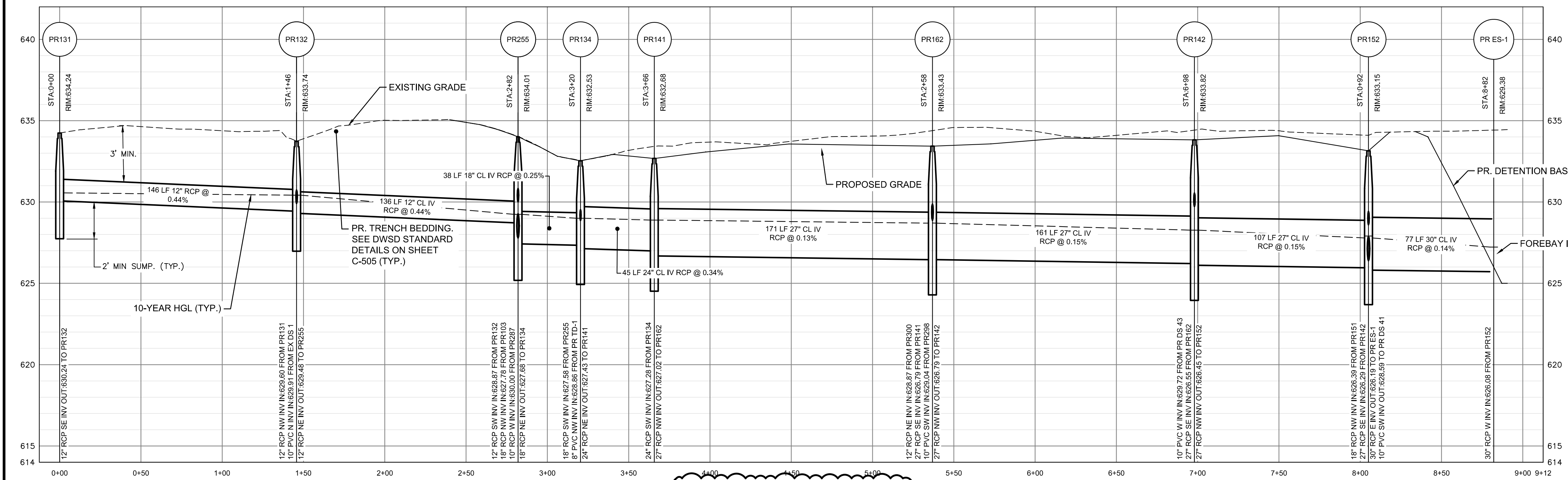
PROJECT LOCATION:
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DESIGNED BY:	NTH PROJECT NO.:
KBH	23001451
DRAWN BY:	SHEET SIZE:
KBH	ARCH D (24"x36")
CHECKED BY:	DATE:
SLG	3/11/2025
CAD FILE NAME:	
23001451-STRM	

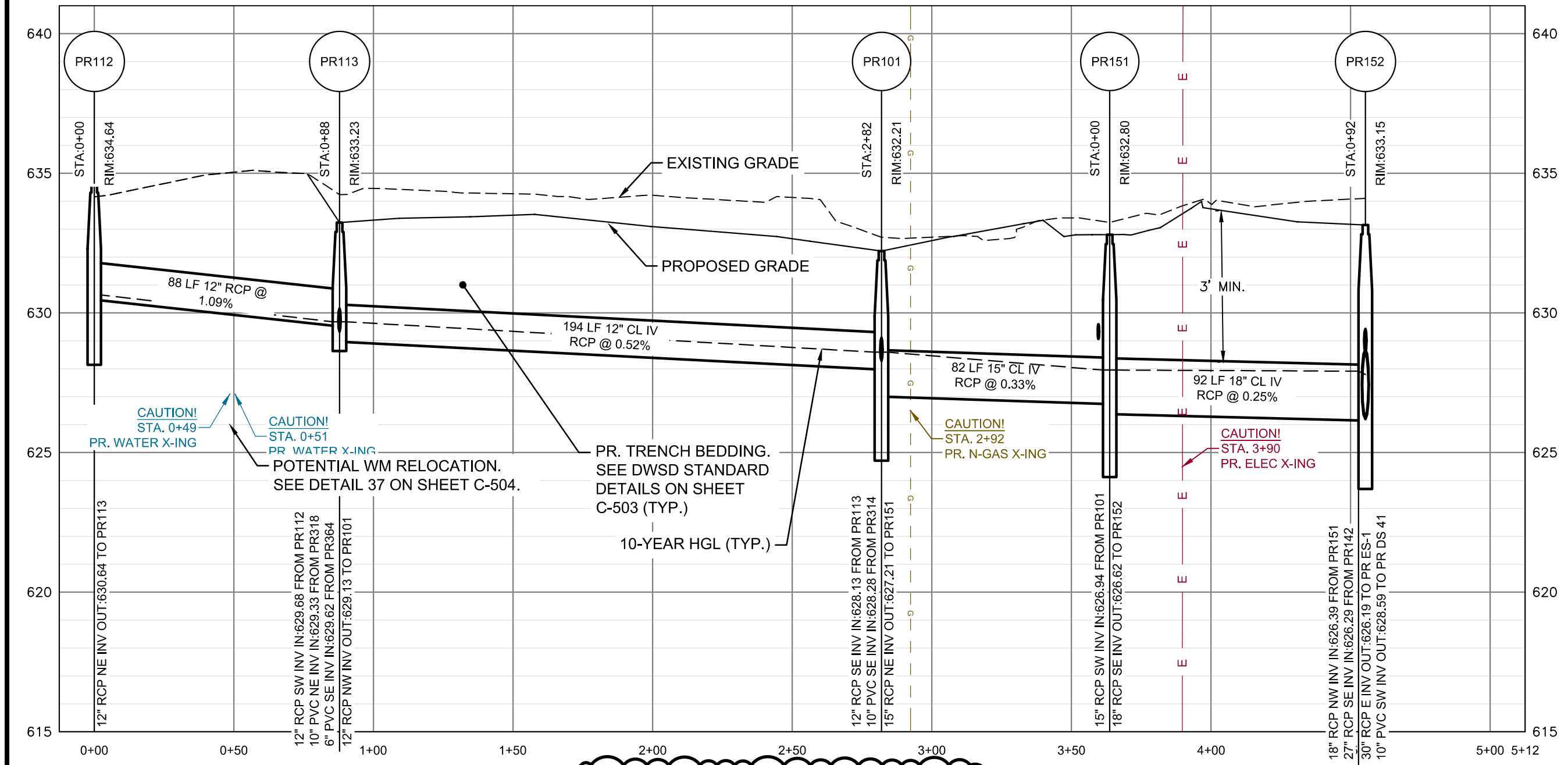
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**PROPOSED UTILITY
PROFILE (1 OF 2)**

SHEET NUMBER:

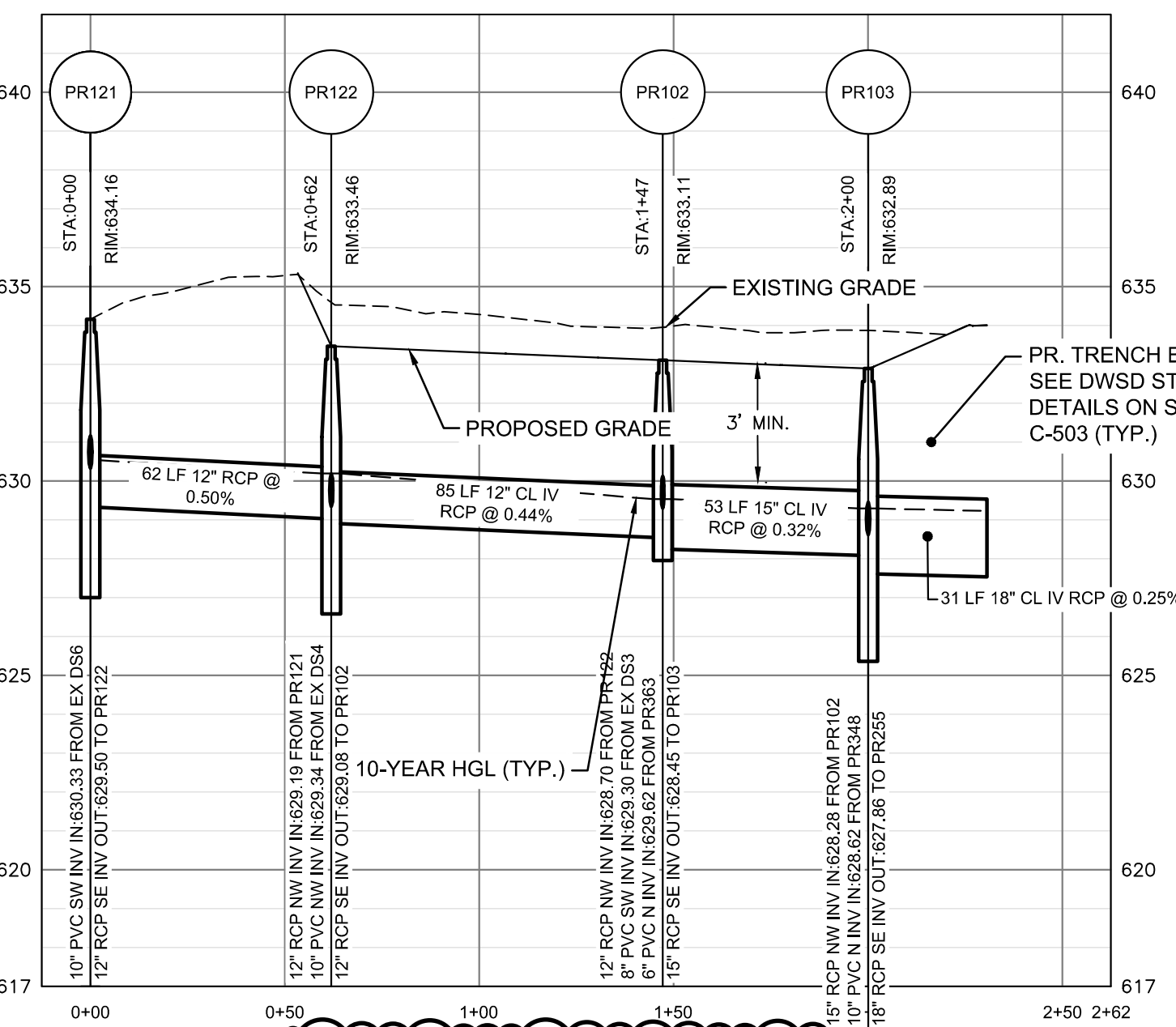
C-111



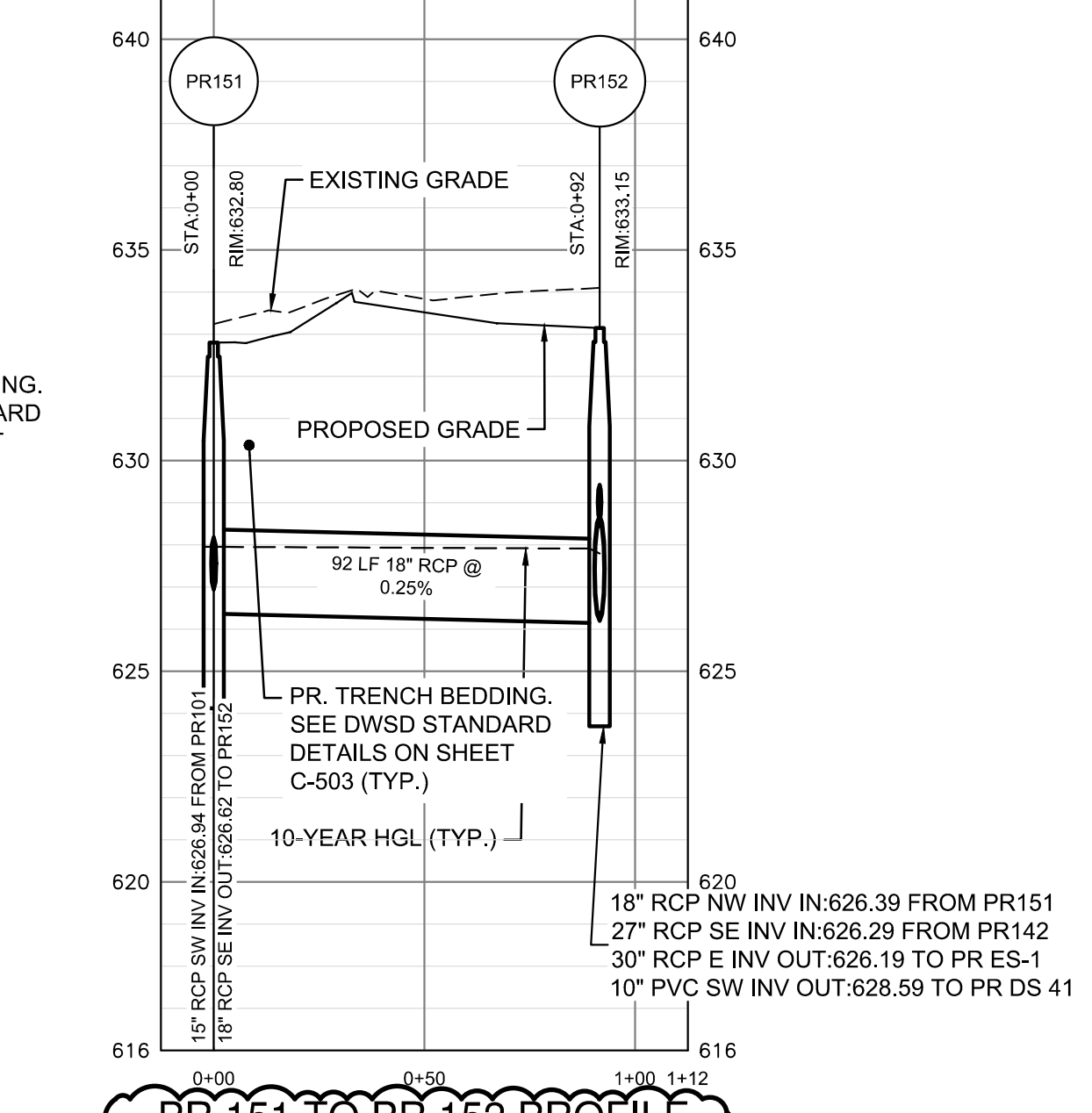
PR 131 TO PR ES-1 PROFILE
HORIZ SCALE: 1" = 40'
VERT SCALE: 1" = 4'



PR 112 TO PR 152 PROFILE
HORIZ SCALE: 1" = 40'
VERT SCALE: 1" = 4'



PR 121 TO PR 255 PROFILE
HORIZ SCALE: 1" = 40'
VERT SCALE: 1" = 4'



PR 151 TO PR 152 PROFILE
HORIZ SCALE: 1" = 40'
VERT SCALE: 1" = 4'

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DTMB FILE NO. 591 22274.MNB

STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATE FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ADAM P. LACH, RA, DIRECTOR

BULLETIN NO. 1



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Facilities Engineering

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3 WORKING DAYS
BEFORE YOU DIG
CALL MISS DIG
1-800-482-7171
For the location of public utility lines.
ALTERNATE NUMBER (811)
YOUR CODES FOR UTILITY LOCATING:

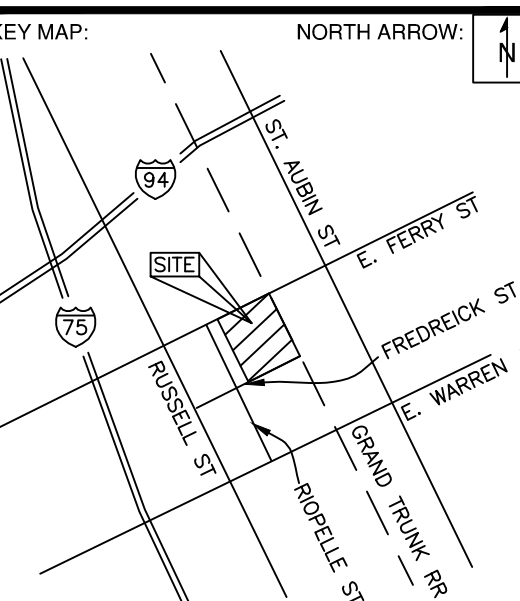
Yellow	Oil & Gas	Blue	Water
Orange	Phone & Cable	Green	Storm Drain
Red	Electric	Brown	Sanitary Sewer
Pink	Gas	Black	Other

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Michigan Department of Transportation

SEAL/STAMP:



REVISION BLOCK	
REV	DATE/DESCRIPTION
Δ	ADDENDUM NO. 1 03/12/2025

SUBMITTAL LOG	
DATE	PACKAGE NAME
2023-12-19	75% DRAWINGS
2024-03-06	90% DRAWINGS
2025-01-31	ISSUED FOR BID
2025-03-07	BULLETIN NO. 1

PROJECT NAME:
**MDOT DETROIT GARAGE
STORM SEWER
RECONSTRUCTION**

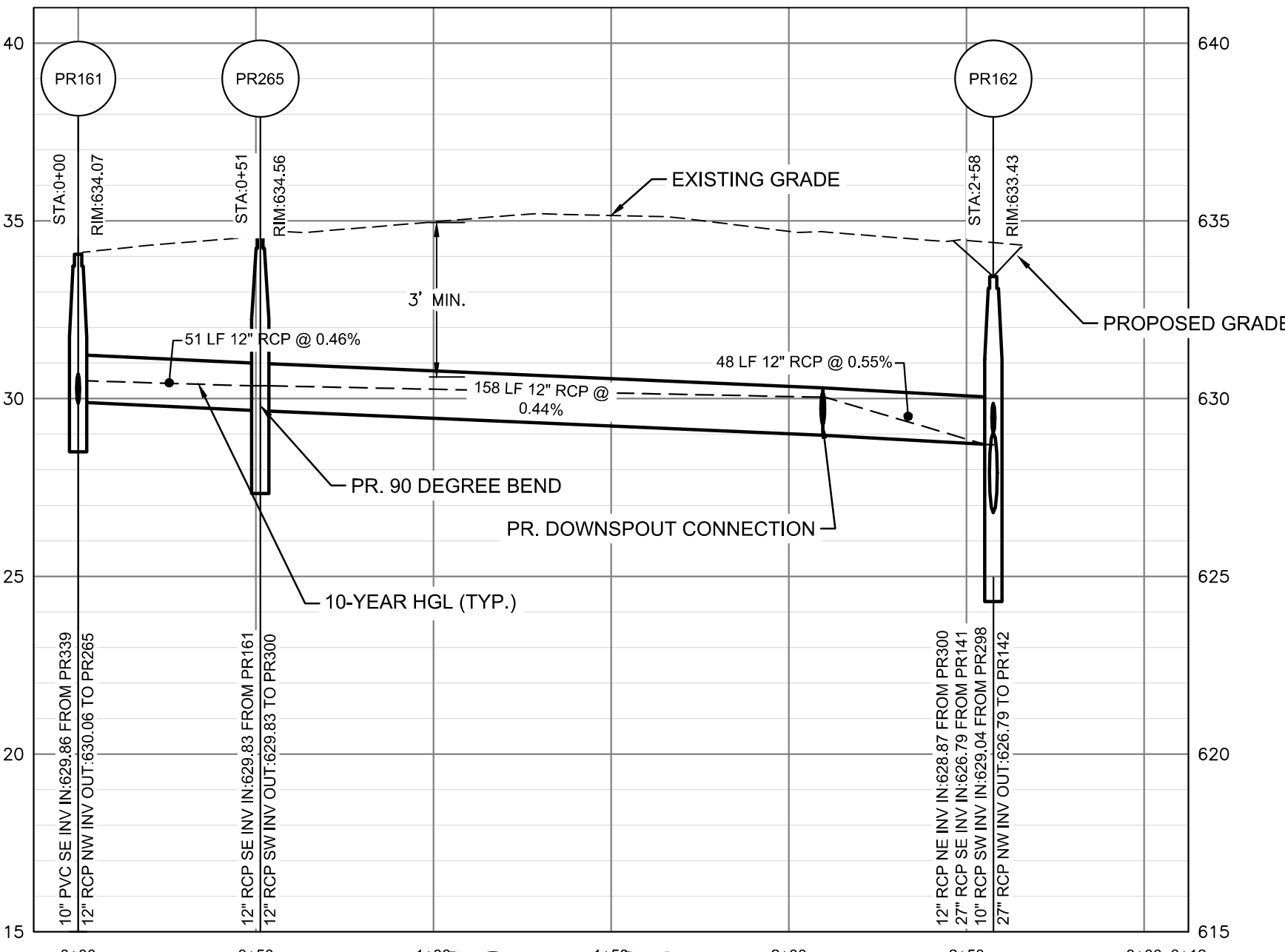
PROJECT LOCATION:
**1500 E. FERRY STREET
DETROIT, MICHIGAN**

DESIGNED BY: KBH	NTH PROJECT NO.: 23001451
DRAWN BY: KBH	SHEET SIZE: ARCH D (24"x36")
CHECKED BY: SLG	DATE: 3/11/2025
CAD FILE NAME: 23001451-STRM	

SHEET TITLE:
**PROPOSED UTILITY
PROFILES (2 OF 2)**

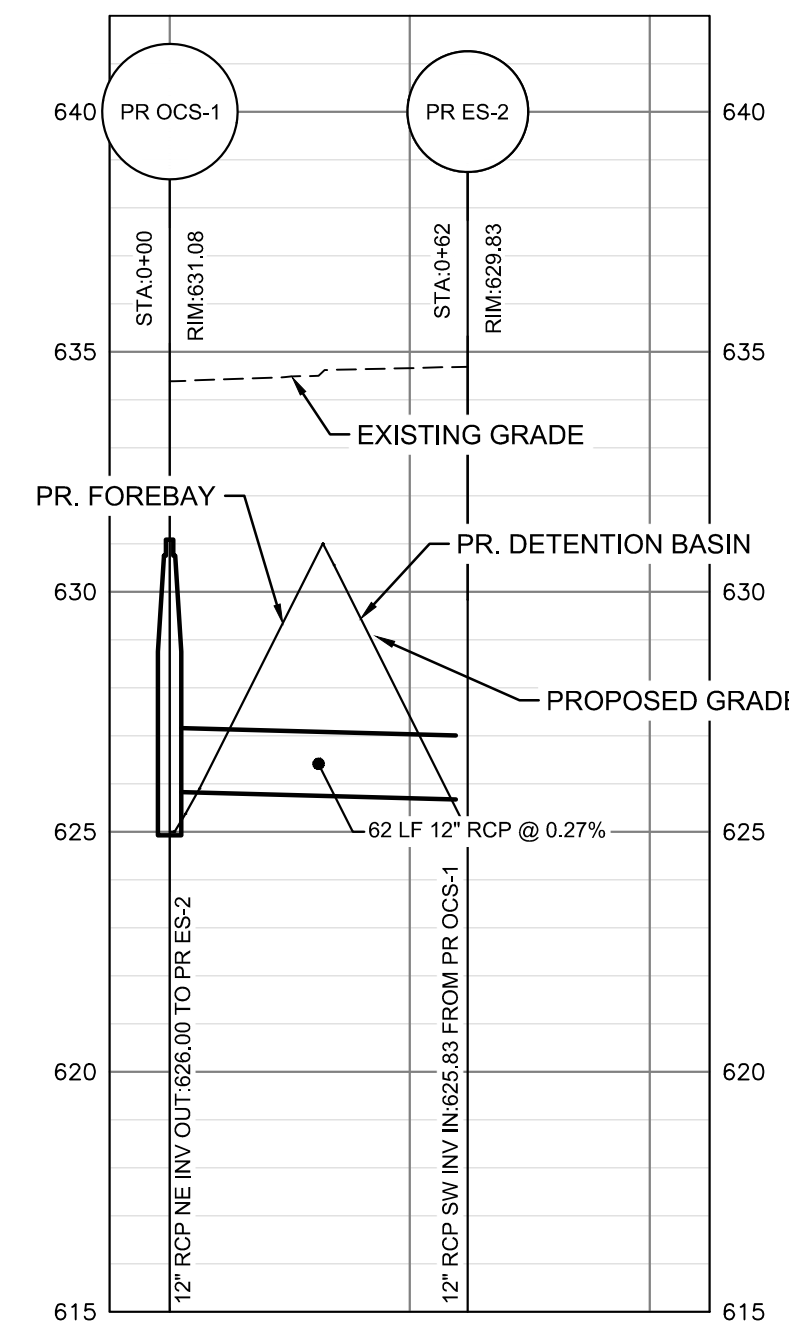
SHEET NUMBER:

C-112



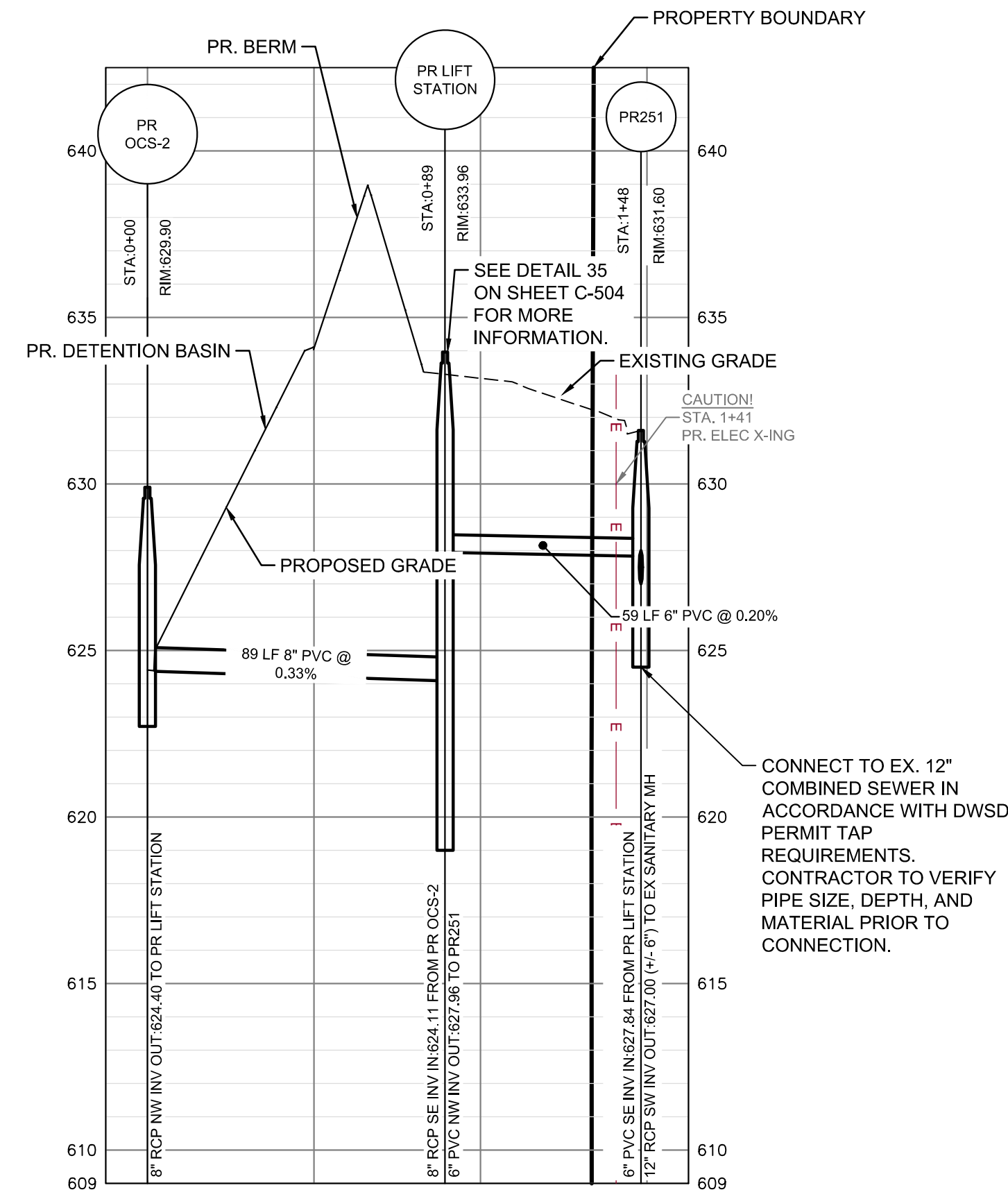
PR. 161 TO PR. 162 PROFILE

HORIZ SCALE: 1" = 40'
VERT SCALE: 1" = 4'



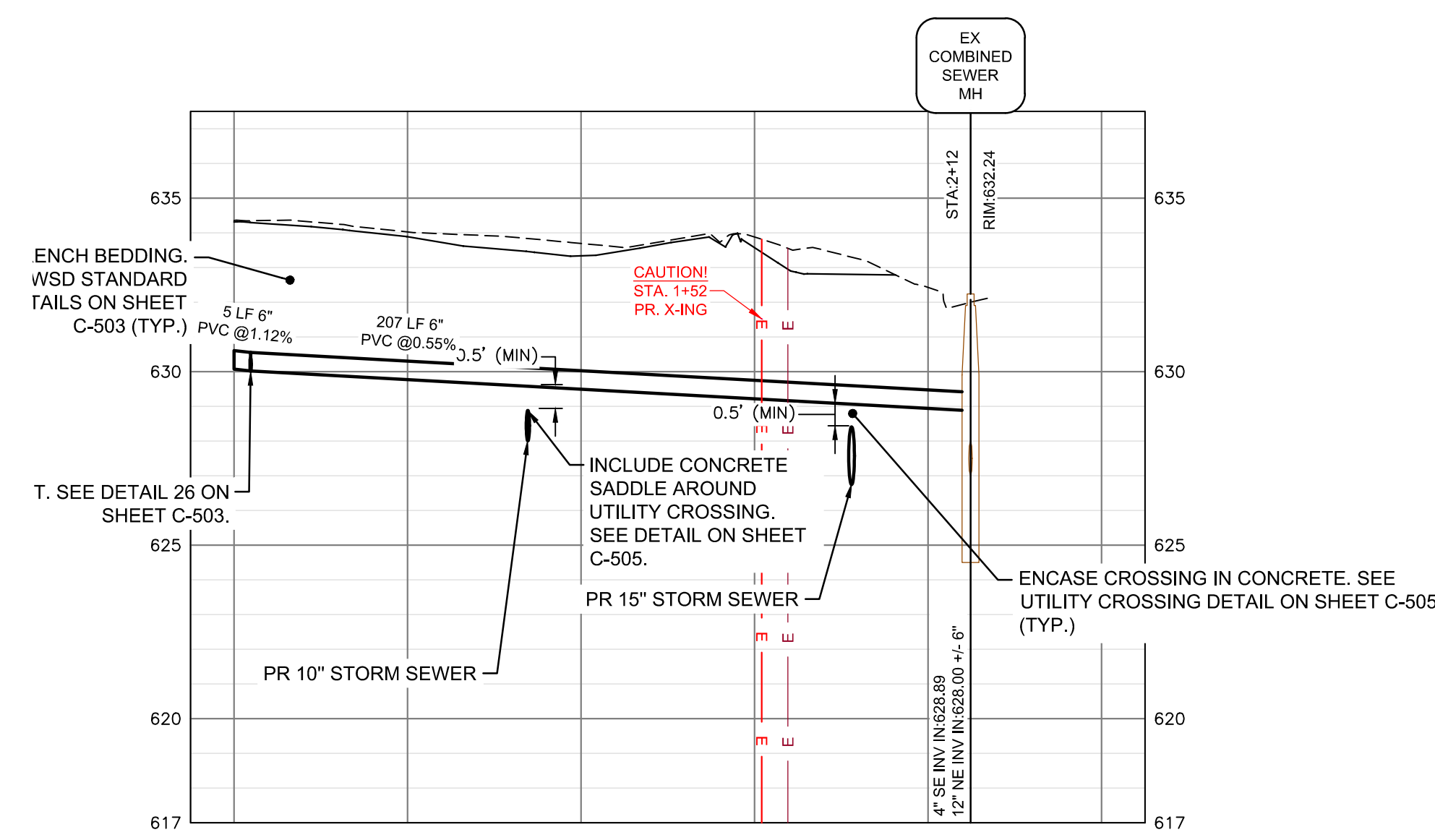
PR. OCS-1 TO PR. ES-2 PROFILE

HORIZ SCALE: 1" = 40'
VERT SCALE: 1" = 4'



PR OCS-2 TO PR 250 PROFILE

HORIZ SCALE: 1" = 40'
VERT SCALE: 1" = 4'



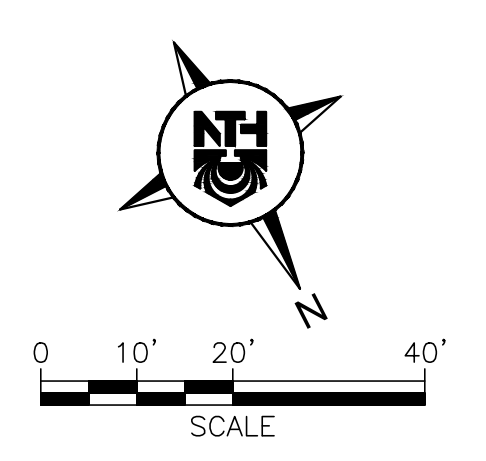
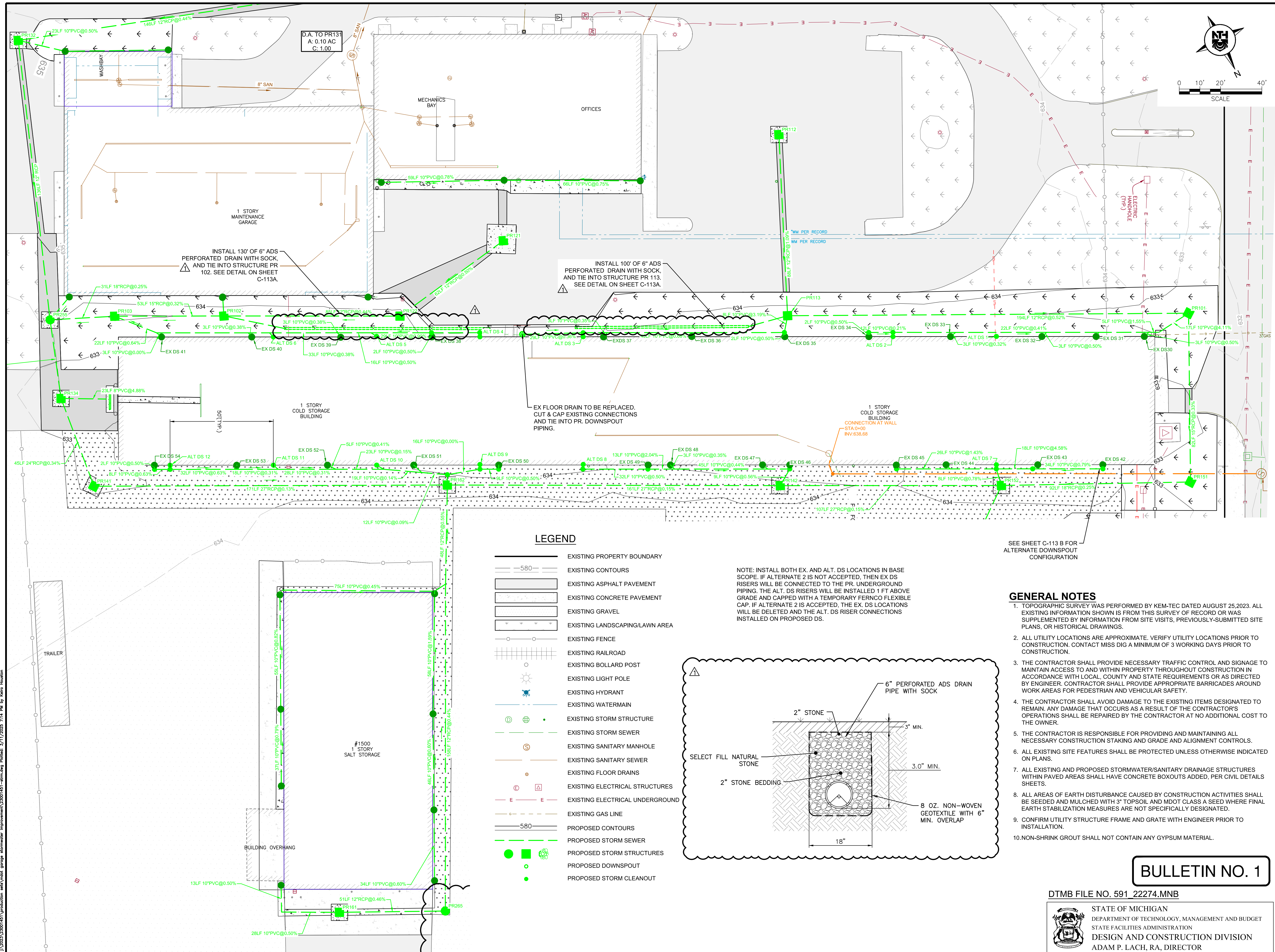
PR SANITARY PROFILE

HORIZ SCALE: 1" = 40'
VERT SCALE: 1" = 4'

DTMB FILE NO. 591 22274.MNB



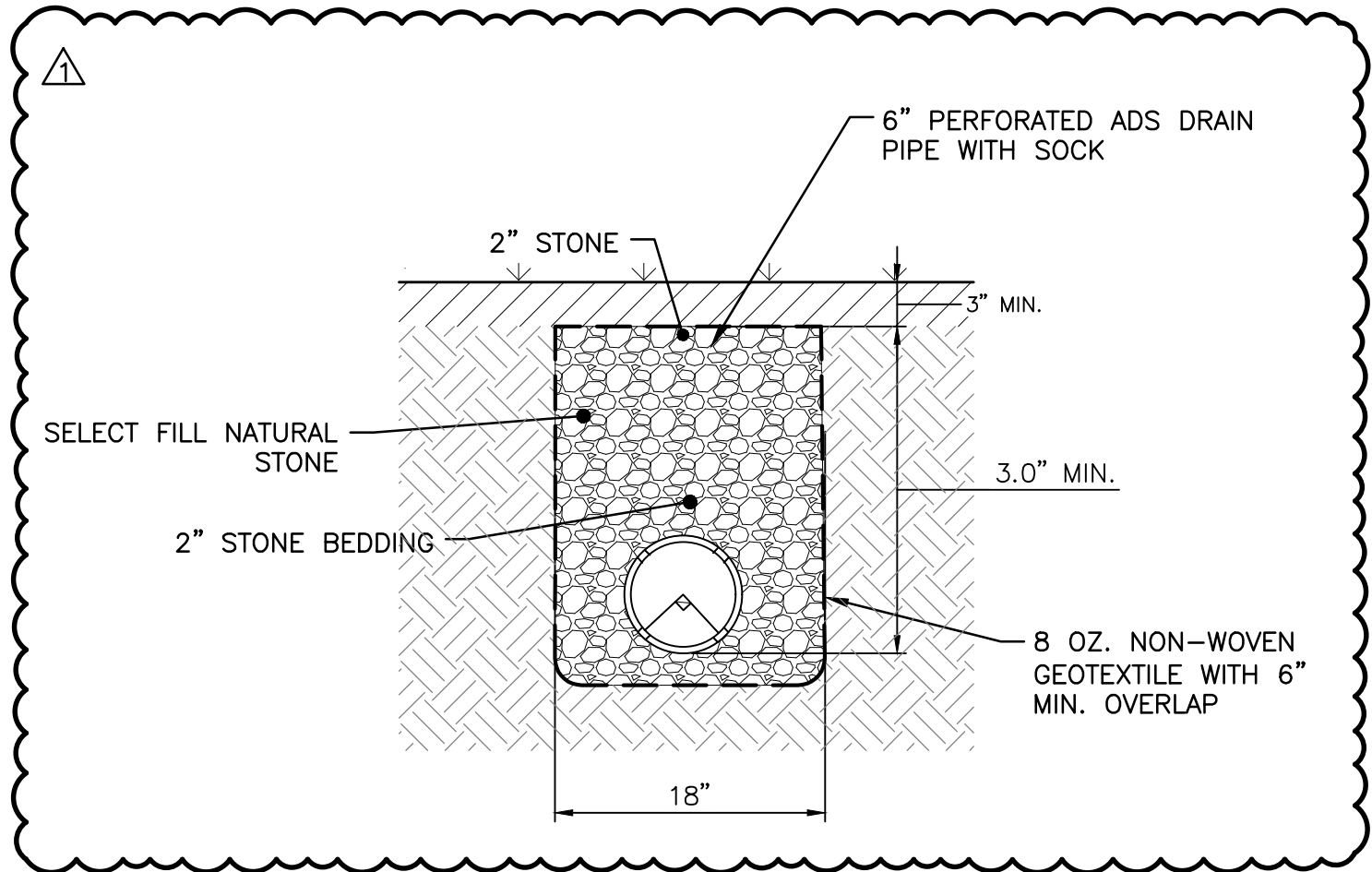
STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATE FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ADAM P. LACH, RA, DIRECTOR



LEGEND

- EXISTING PROPERTY BOUNDARY
- EXISTING CONTOURS
- EXISTING ASPHALT PAVEMENT
- EXISTING CONCRETE PAVEMENT
- EXISTING GRAVEL
- EXISTING LANDSCAPING/LAWN AREA
- EXISTING FENCE
- EXISTING RAILROAD
- EXISTING BOLLARD POST
- EXISTING LIGHT POLE
- EXISTING HYDRANT
- EXISTING WATERMAIN
- EXISTING STORM STRUCTURE
- EXISTING STORM SEWER
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY SEWER
- EXISTING FLOOR DRAINS
- EXISTING ELECTRICAL STRUCTURES
- EXISTING ELECTRICAL UNDERGROUND
- EXISTING GAS LINE
- PROPOSED CONTOURS
- PROPOSED STORM SEWER
- PROPOSED STORM STRUCTURES
- PROPOSED DOWNSPOUT
- PROPOSED STORM CLEANOUT

NOTE: INSTALL BOTH EX. AND ALT. DS LOCATIONS IN BASE SCOPE. IF ALTERNATE 2 IS NOT ACCEPTED, THEN EX DS RISERS WILL BE CONNECTED TO THE PR. UNDERGROUND PIPING. THE ALT. DS RISERS WILL BE INSTALLED 1 FT ABOVE GRADE AND CAPPED WITH A TEMPORARY FERROCEMENT FLEXIBLE CAP. IF ALTERNATE 2 IS ACCEPTED, THE EX. DS LOCATIONS WILL BE DELETED AND THE ALT. DS RISER CONNECTIONS INSTALLED ON PROPOSED DS.

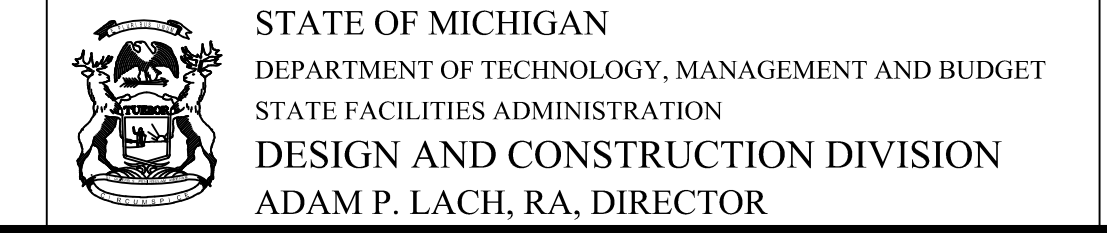


GENERAL NOTES

1. TOPOGRAPHIC SURVEY WAS PERFORMED BY KEM-TEC DATED AUGUST 25, 2023. ALL EXISTING INFORMATION SHOWN IS FROM THIS SURVEY OF RECORD OR WAS SUPPLEMENTED BY INFORMATION FROM SITE VISITS, PREVIOUSLY-SUBMITTED SITE PLANS, OR HISTORICAL DRAWINGS.
2. ALL UTILITY LOCATIONS ARE APPROXIMATE. VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION. CONTACT MISS DIG A MINIMUM OF 3 WORKING DAYS PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL PROVIDE NECESSARY TRAFFIC CONTROL AND SIGNAGE TO MAINTAIN ACCESS TO AND WITHIN PROPERTY THROUGHOUT CONSTRUCTION IN ACCORDANCE WITH LOCAL, COUNTY AND STATE REQUIREMENTS OR AS DIRECTED BY ENGINEER. CONTRACTOR SHALL PROVIDE APPROPRIATE BARRICADES AROUND WORK AREAS FOR PEDESTRIAN AND VEHICULAR SAFETY.
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8. ALL AREAS OF EARTH DISTURBANCE CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE SEEDED AND MULCHED WITH 3" TOPSOIL AND MDT CLASS A SEED WHERE FINAL EARTH STABILIZATION MEASURES ARE NOT SPECIFICALLY DESIGNATED.
9. CONFIRM UTILITY STRUCTURE FRAME AND GRATE WITH ENGINEER PRIOR TO INSTALLATION.
10. NON-SHRINK GROUT SHALL NOT CONTAIN ANY GYPSUM MATERIAL.

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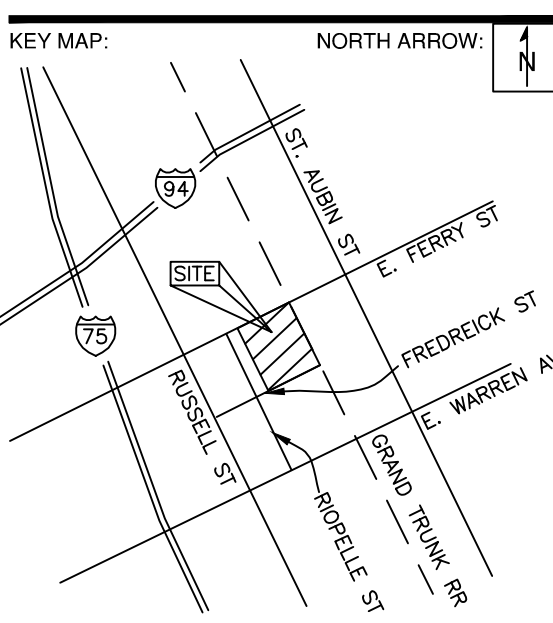
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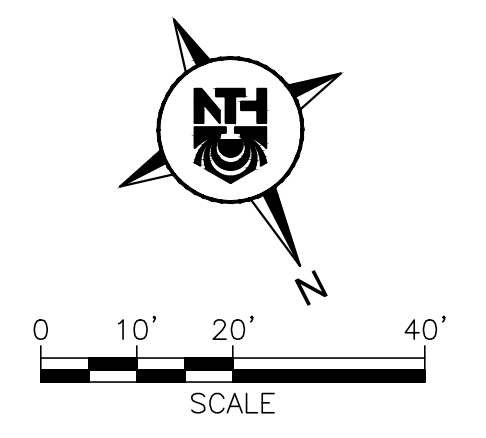
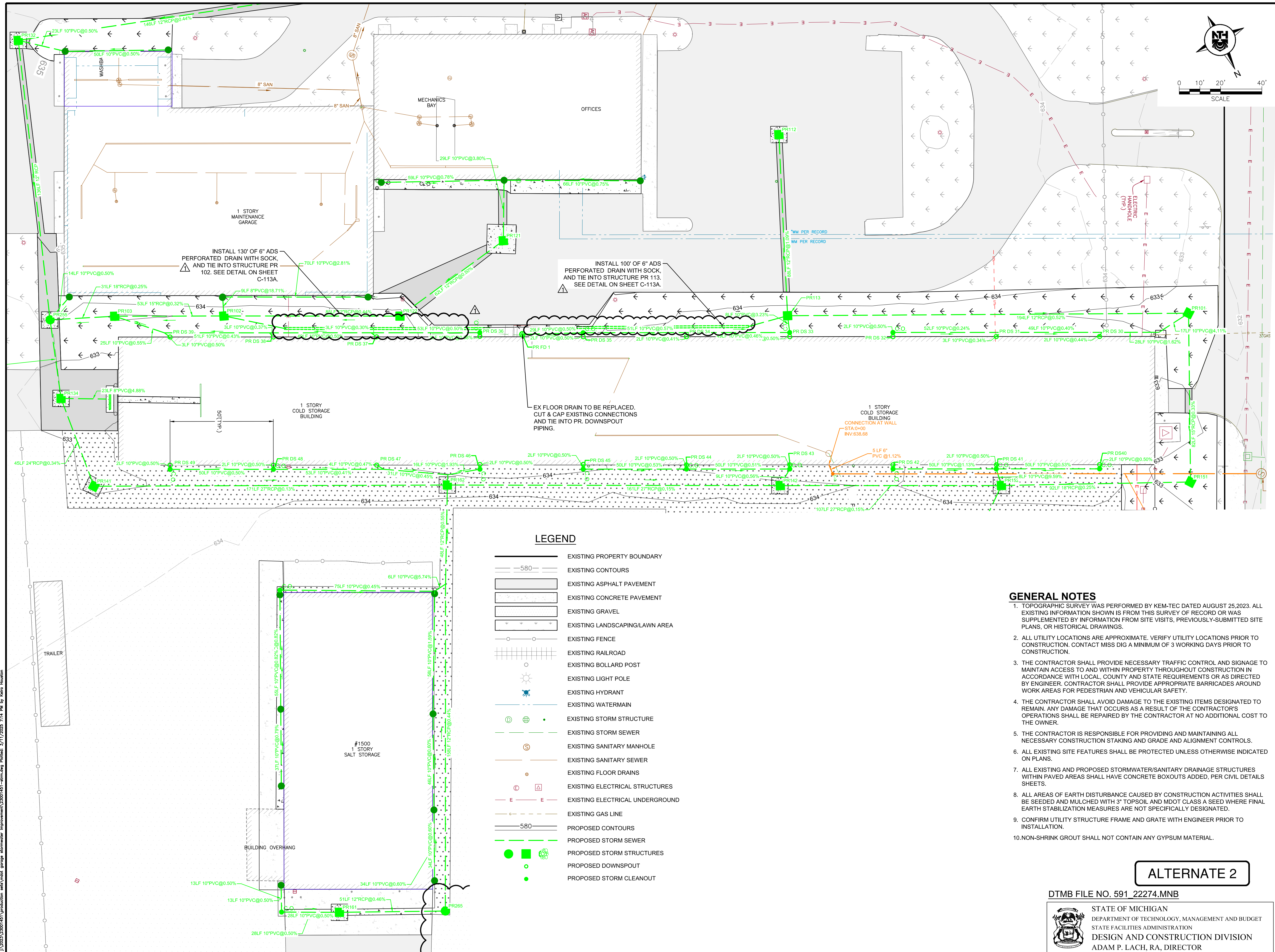
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DESIGNED BY: KBH	NTH PROJECT NO.: 23001451
DRAWN BY: KBH	SHEET SIZE: ARCH D (24"x36")
CHECKED BY: SLG	DATE: 3/11/2025
CAD FILE NAME: 23001451-STRM	

SHEET TITLE:
**PROPOSED DOWNSPOUT
 PLAN**

SHEET NUMBER:
C-113 A

E:\2025\23001451\production\set\mtd\genoa_stormwater_improvement\23001451-stormdig\Plothead_3/11/2025_7:14_Plot by Helen Houston



LEGEND

- EXISTING PROPERTY BOUNDARY
- EXISTING CONTOURS
- EXISTING ASPHALT PAVEMENT
- EXISTING CONCRETE PAVEMENT
- EXISTING GRAVEL
- EXISTING LANDSCAPING/LAWN AREA
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- EXISTING HYDRANT
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- PROPOSED STORM CLEANOUT

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ALTERNATE 2

DTMB FILE NO. 591 22274.MNB



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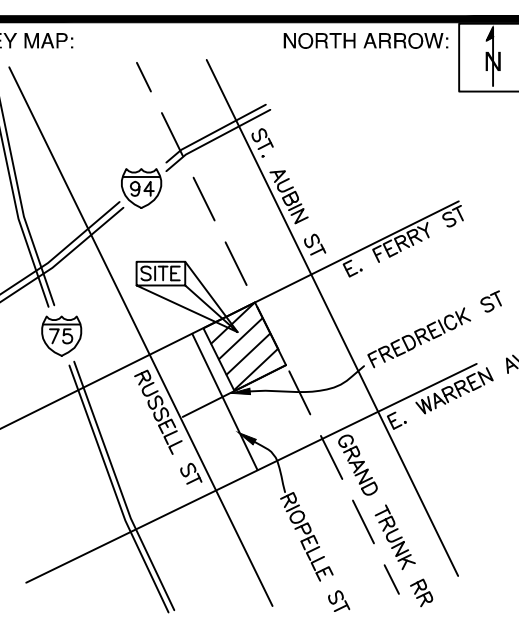
For the location of public utility lines, ALTERNATE NUMBER (811) YOUR CODES FOR UTILITY LOCATIONS:

Yellow: OIL & GAS Blue: WATER
Orange: FIBER & CABLE Green: STORM DRAIN
Red: ELECTRIC Brown: SEWER
Purple: GAS Pink: SURVEYING

IF YOU ARE GOING TO WORK NEAR OVERHEAD WIRES - CALL MISS DIG

MDOT
Michigan Department of Transportation

SEAL/STAMP:



REVISION BLOCK	
REV	DATE: DESCRIPTION
ADDENDUM NO. 1	03/12/2025

SUBMITTAL LOG	
DATE	PACKAGE NAME
2023-12-19	75% DRAWINGS
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2025-03-07	BULLETIN NO. 1

PROJECT NAME:
**MDOT DETROIT GARAGE
STORM SEWER
RECONSTRUCTION**

PROJECT LOCATION:
**1500 E. FERRY STREET
DETROIT, MICHIGAN**

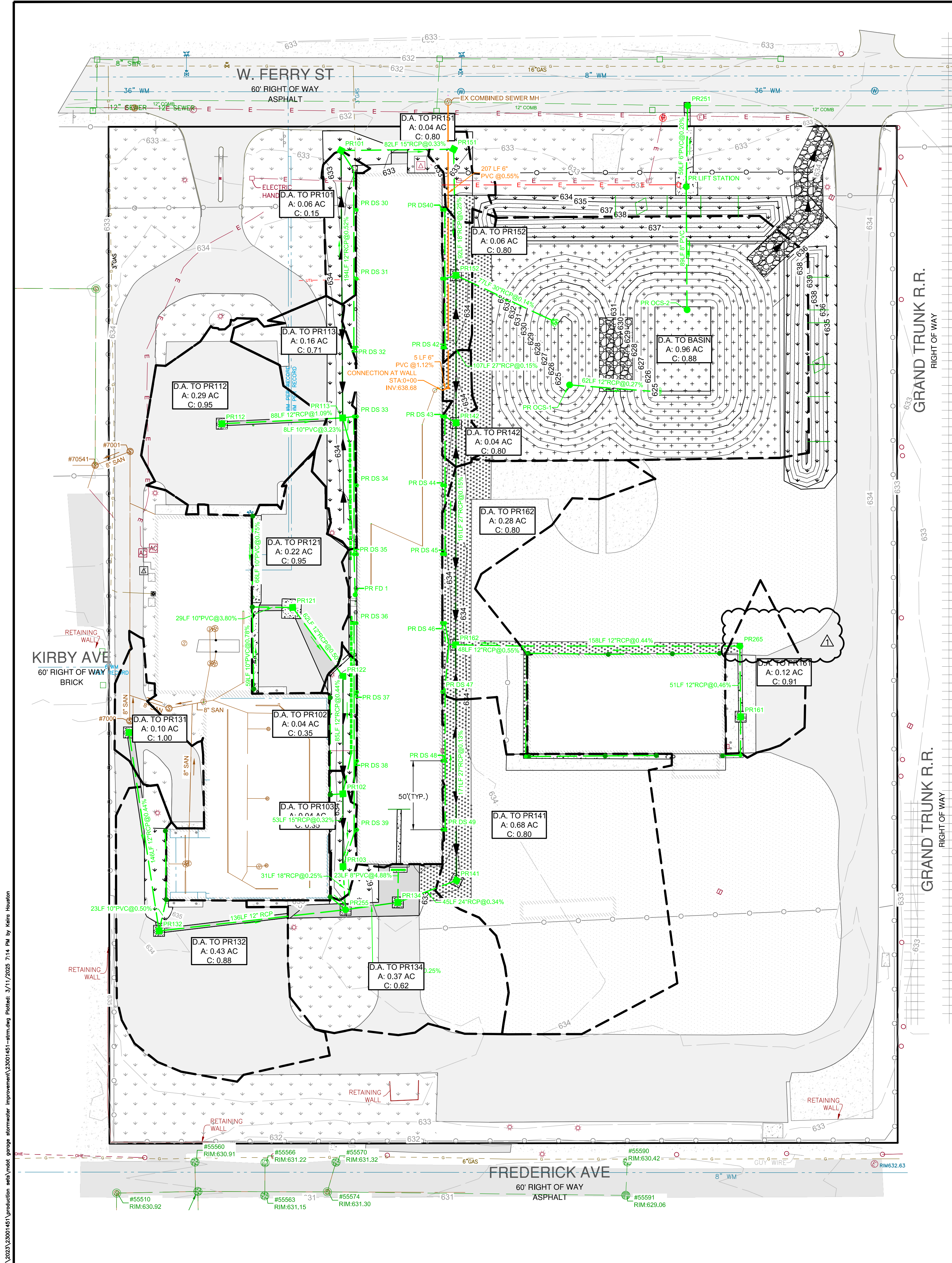
DESIGNED BY: KBH	NTH PROJECT NO.: 23001451
DRAWN BY: KBH	SHEET SIZE: ARCH D (24"x36")
CHECKED BY: SLG	DATE: 3/11/2025

CAD FILE NAME:
23001451-STRM

SHEET TITLE:
**PROPOSED DOWNSPOUT
PLAN - ALTERNATE 2**

SHEET NUMBER:
C-113 B

3/11/2025 7:14 PM by Helen Houston



STORMWATER NARRATIVE

- RUNOFF RUNS FROM THE SITE GENERALLY NORTH AND WEST TOWARDS E. FERRY STREET VIA SHEET FLOW, CATCH BASINS, STORMWATER CONVEYANCE PIPING, AND GRADED LOW LINES.
- THE PROPOSED STORMWATER PIPE CONVEYANCE SYSTEM HAS BEEN DESIGNED TO CONVEY THE 10-YEAR DESIGN STORM AND DRAIN RUNOFF FROM THE PROJECT AREA TO THE DWSD SEWER SYSTEM.
- A DETENTION POND FOREBAY HAS BEEN PROVIDED TO SATISFY WATER QUALITY REQUIREMENTS FOR THE DEVELOPED PROJECT AREA.
- SITE RUNOFF IS RELEASED TO THE DWSD SEWER SYSTEM THROUGH EXTENDED DETENTION VIA AN ABOVE GROUND DETENTION POND. A LIFT STATION HAS BEEN PROVIDED TO RELEASE STORMWATER AT THE APPROPRIATE RATE FOR EXTENDED DETENTION.

WATER QUALITY VOLUME: 15,967 CF
 1 INCH OF RAINFALL OVER DRAINAGE AREA

100-YR FLOOD CONTROL VOLUME: 51,454 CF
 $V_{100} = 60.5 \cdot D_{100} \cdot C \cdot A \cdot 1 - 60 \cdot D_{100} \cdot Q_e \cdot A$

SEE FULL STORMWATER CALCULATIONS ON SHEET C-115.

LEGEND

- EXISTING PROPERTY BOUNDARY
- EXISTING CONTOURS
- EXISTING ASPHALT PAVEMENT
- EXISTING CONCRETE PAVEMENT
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- EXISTING ELECTRICAL UNDERGROUND
- EXISTING GAS LINE
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED GRAVEL
- PROPOSED STORM WATER DETENTION AREA
- PROPOSED RIPRAP
- PROPOSED LANDSCAPING/LAWN AREA
- PROPOSED FENCE
- PROPOSED BOLLARD
- PROPOSED CONTOURS
- PROPOSED DRAINAGE AREAS
- PROPOSED DRAINAGE DITCH
- PROPOSED STORM SEWER
- PROPOSED STORM STRUCTURES

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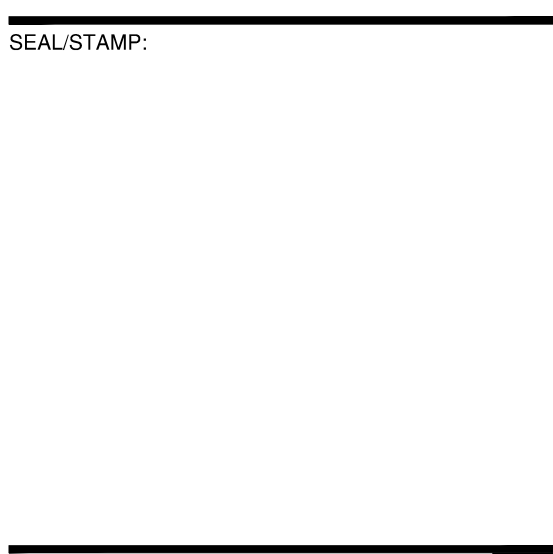
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MDOT
 Michigan Department of Transportation



REVISION BLOCK

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PROJECT LOCATION:
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DESIGNED BY: KBH	NTH PROJECT NO.: 23001451
DRAWN BY: KBH	SHEET SIZE: ARCH D (24"x36")
CHECKED BY: SLG	DATE: 3/11/2025
CAD FILE NAME: 23001451-STRM	

SHEET TITLE:
**PROPOSED STORMWATER
 MANAGEMENT PLAN**

SHEET NUMBER:
C-114

3/11/2025 2:00:45 PM I:\production\23001451\stormwater\23001451-stormwater.dwg Plotfiled: 3/11/2025 7:14 PM by Helen Houston



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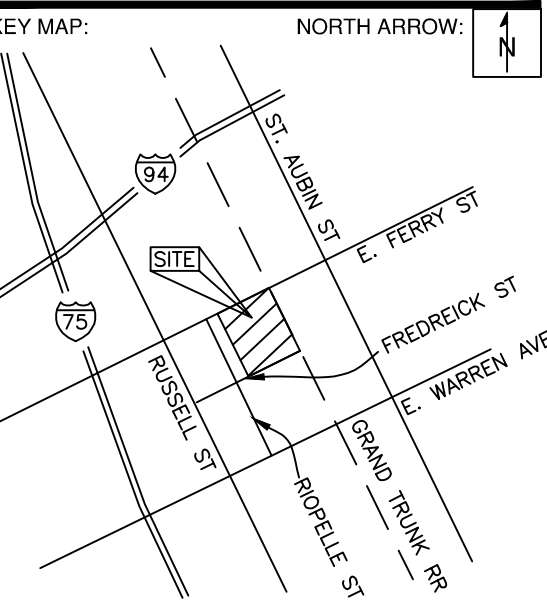
For free location of public utility lines, ALIENAS NUMBER 8113 COLOR CODES FOR UTILITY LOCATING:

Yellow Gas Blue WATER
Orange PROTECTIVE GREEN STORM DRAIN
Red ELECTRIC Blue STONE
Pink SLEEVES/PIPELINE

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PROJECT NAME:
MDOT DETROIT GARAGE STORM SEWER RECONSTRUCTION

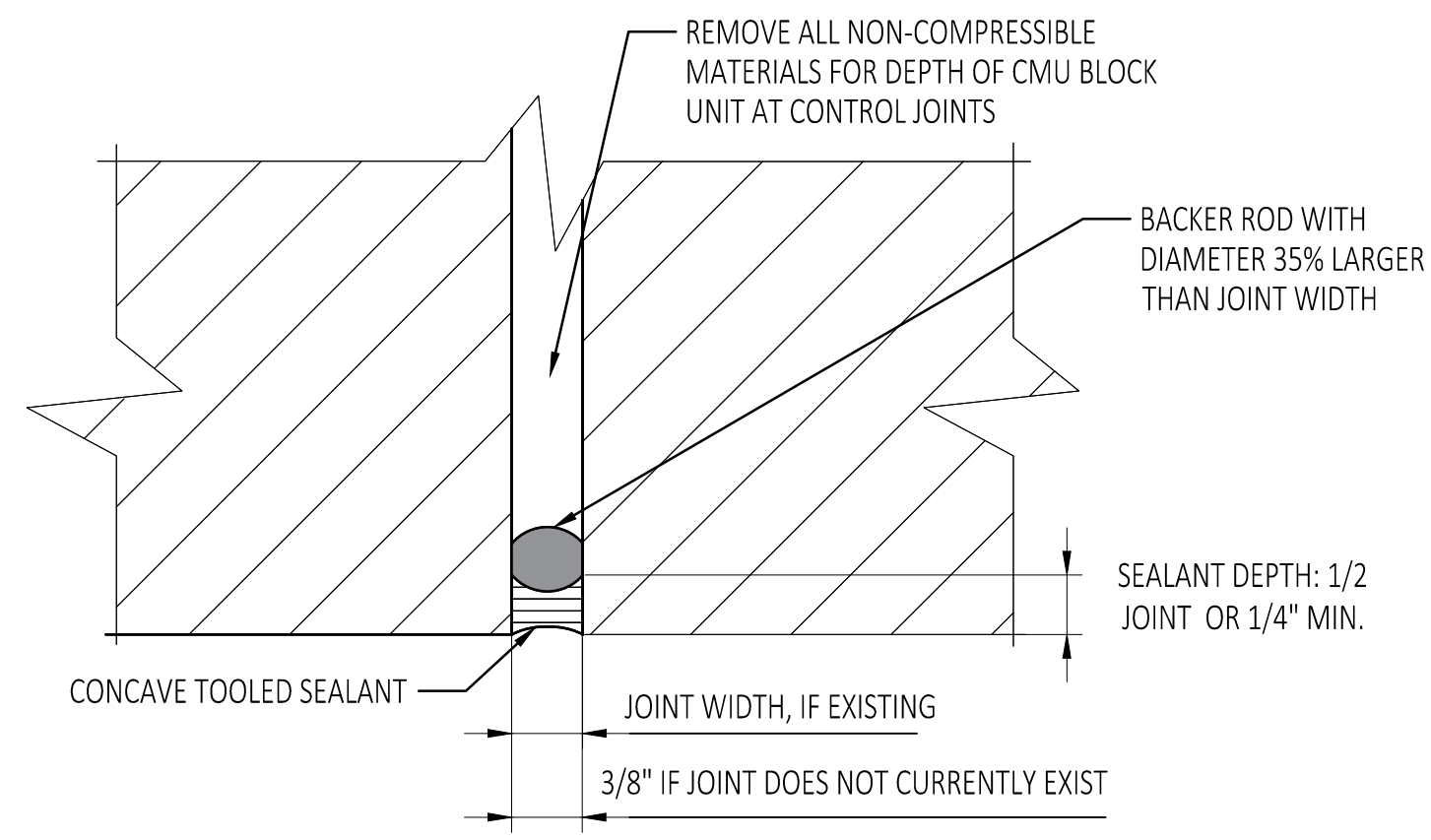
PROJECT LOCATION:
**1500 E. FERRY STREET
DETROIT, MICHIGAN**

DESIGNED BY: MAA	NTH PROJECT NO.: 23001451
DRAWN BY: MAA	SHEET SIZE: ARCH D (24"x36")
CHECKED BY: JBS	DATE: 08/19/2024
CAD FILE NAME: 23001451	

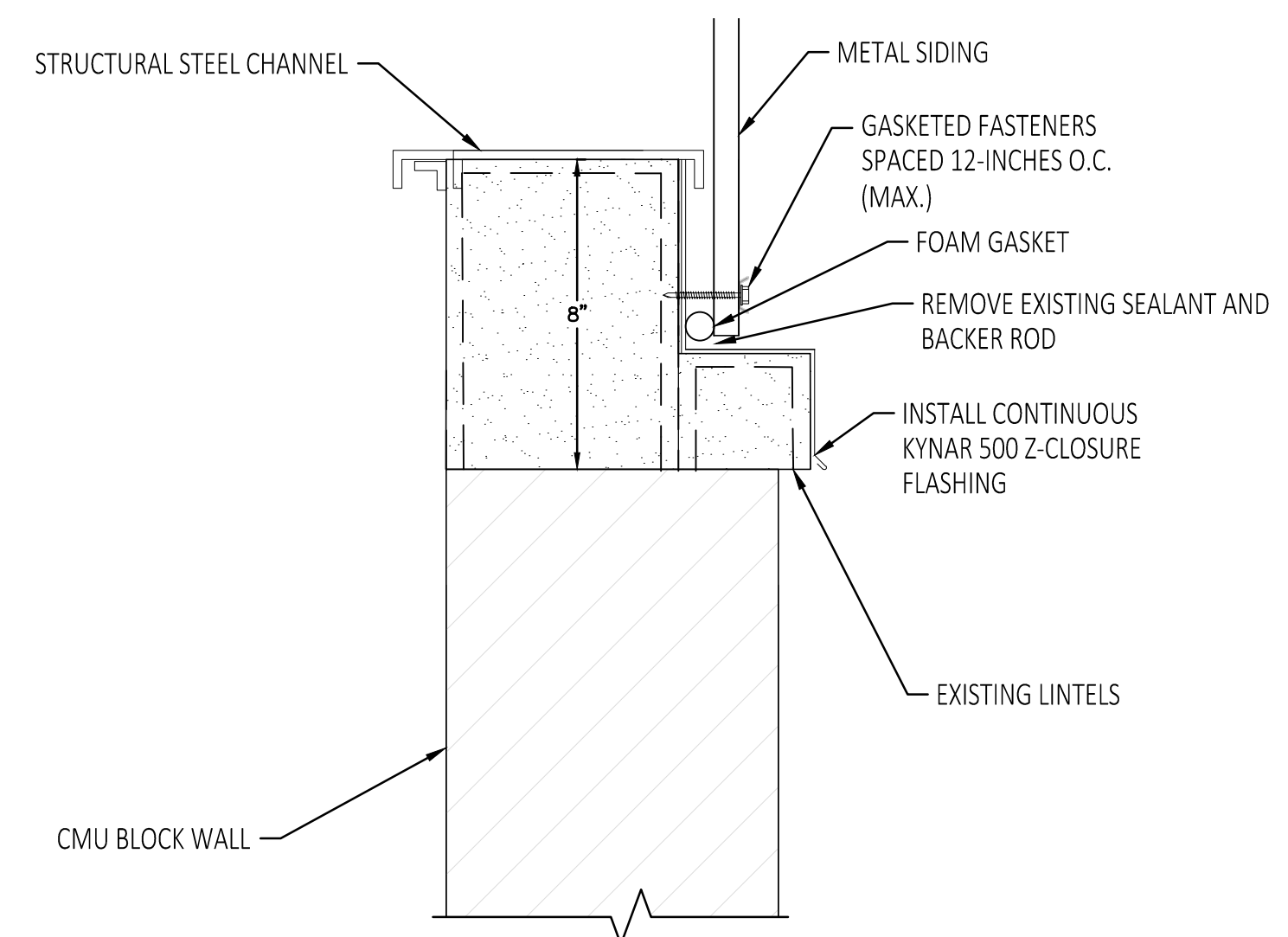
SHEET TITLE:
REPAIR DETAILS

SHEET NUMBER:

R-108



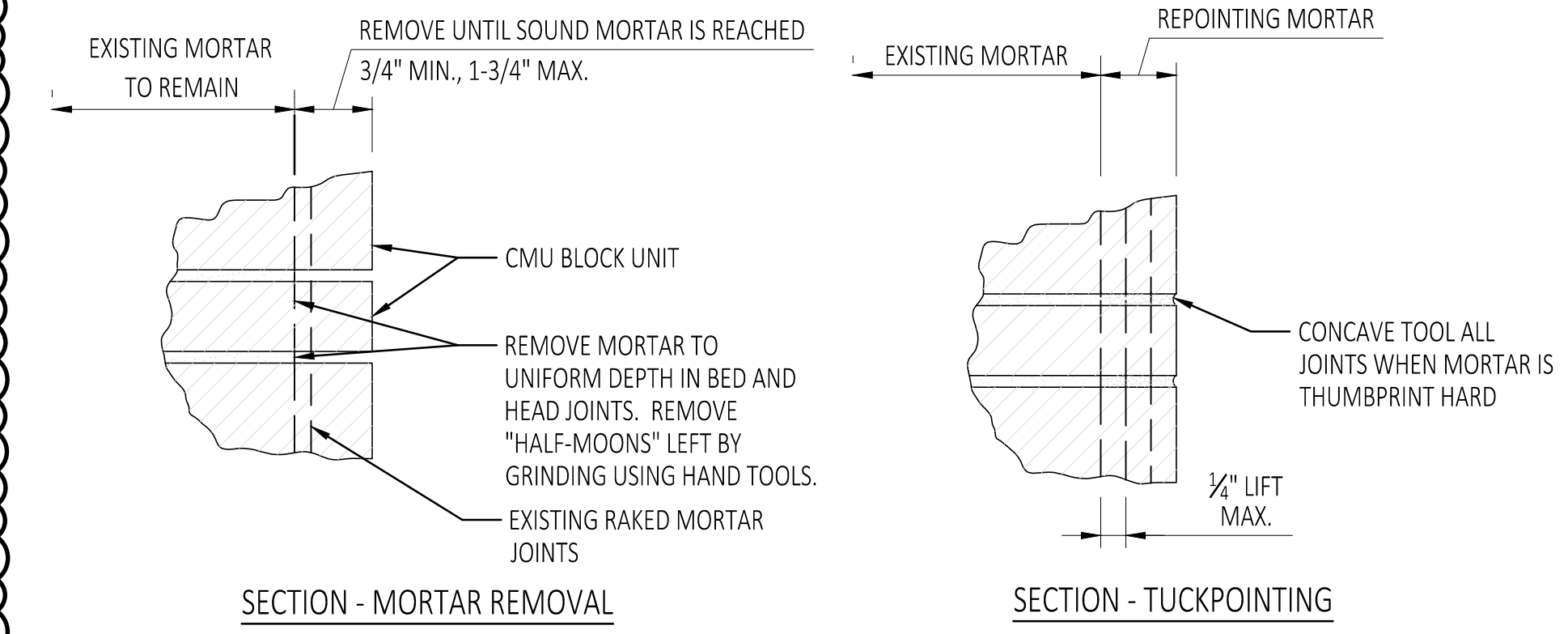
1
R-108 NOT TO SCALE
CMU BLOCK FACADE CONTROL JOINT



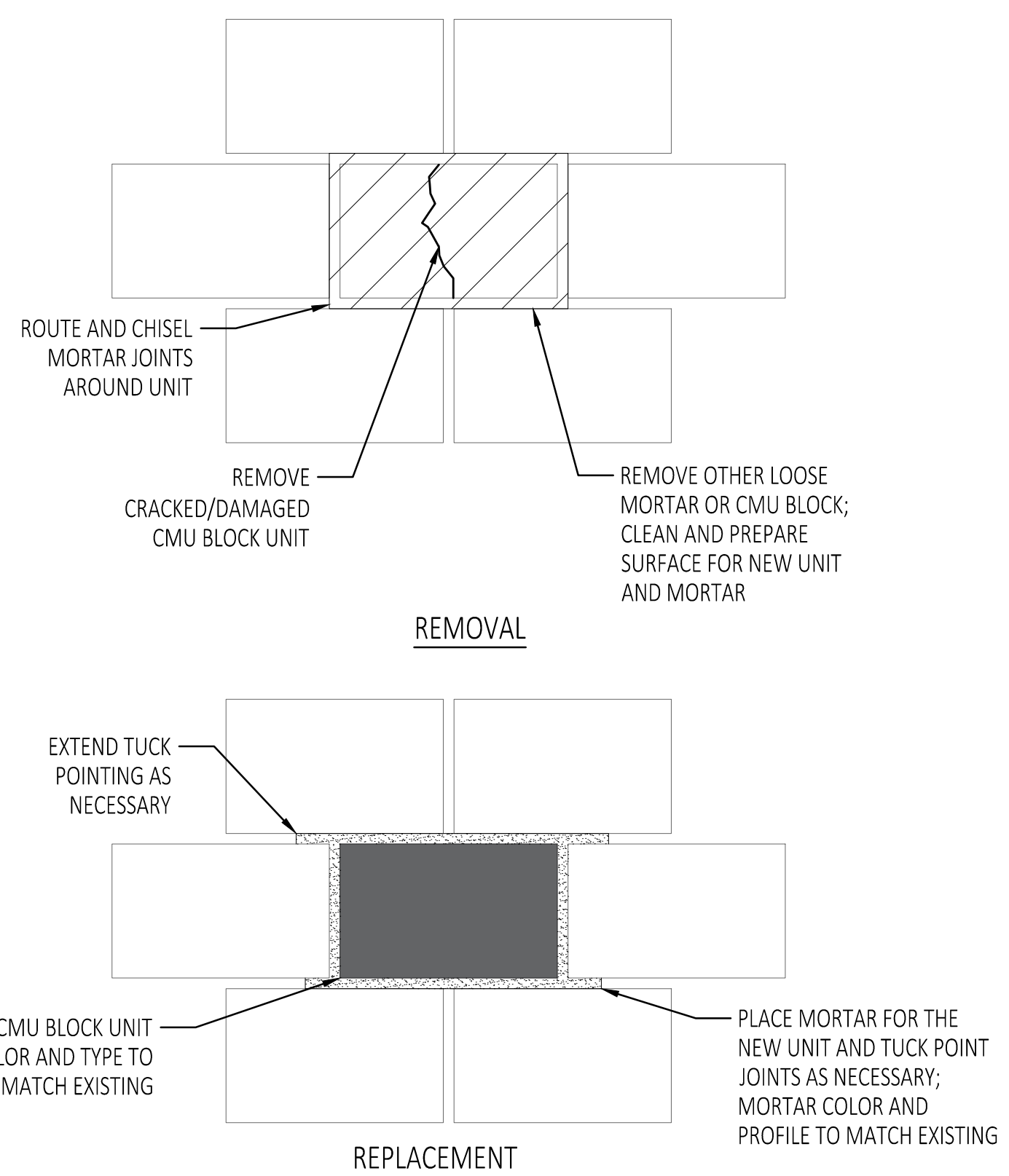
3
R-108 NOT TO SCALE
LINTEL FLASHING DETAIL

NOTES:

- REMOVE EXISTING SEALANT AND BACKER ROD ALONG THE LINTEL AND STEEL SIDING.
- REPLACE THE LINTELS IN-KIND AT LOCATIONS IDENTIFIED ON THE ELEVATION PLANS SHEET NO. R-103, R-104 AND R-105.
- REMOVE AND REPLACE FOAM GASKET.
- INSTALL CONTINUOUS KYNAR 500 Z-CLOSURE FLASHING AT LINTEL TO EXISTING METAL SIDING WITH GASKETED FASTENERS SPACED AT 12-INCHES O.C..
- INSTALL BUTYL SEALANT IN LAPS OF Z-FLASHING.
- CONTRACTOR TO MAKE NECESSARY ADJUSTMENTS TO THE Z-FLASHING TO ACCOMMODATE SITE CONDITIONS.
- CONTRACTOR TO REPAIR AND / OR REPLACE SECTIONS OF DETERIORATED EXISTING METAL SIDING AT LOCATIONS OF NEWLY INSTALLED Z-FLASHING, AS DIRECTED BY THE ENGINEER.



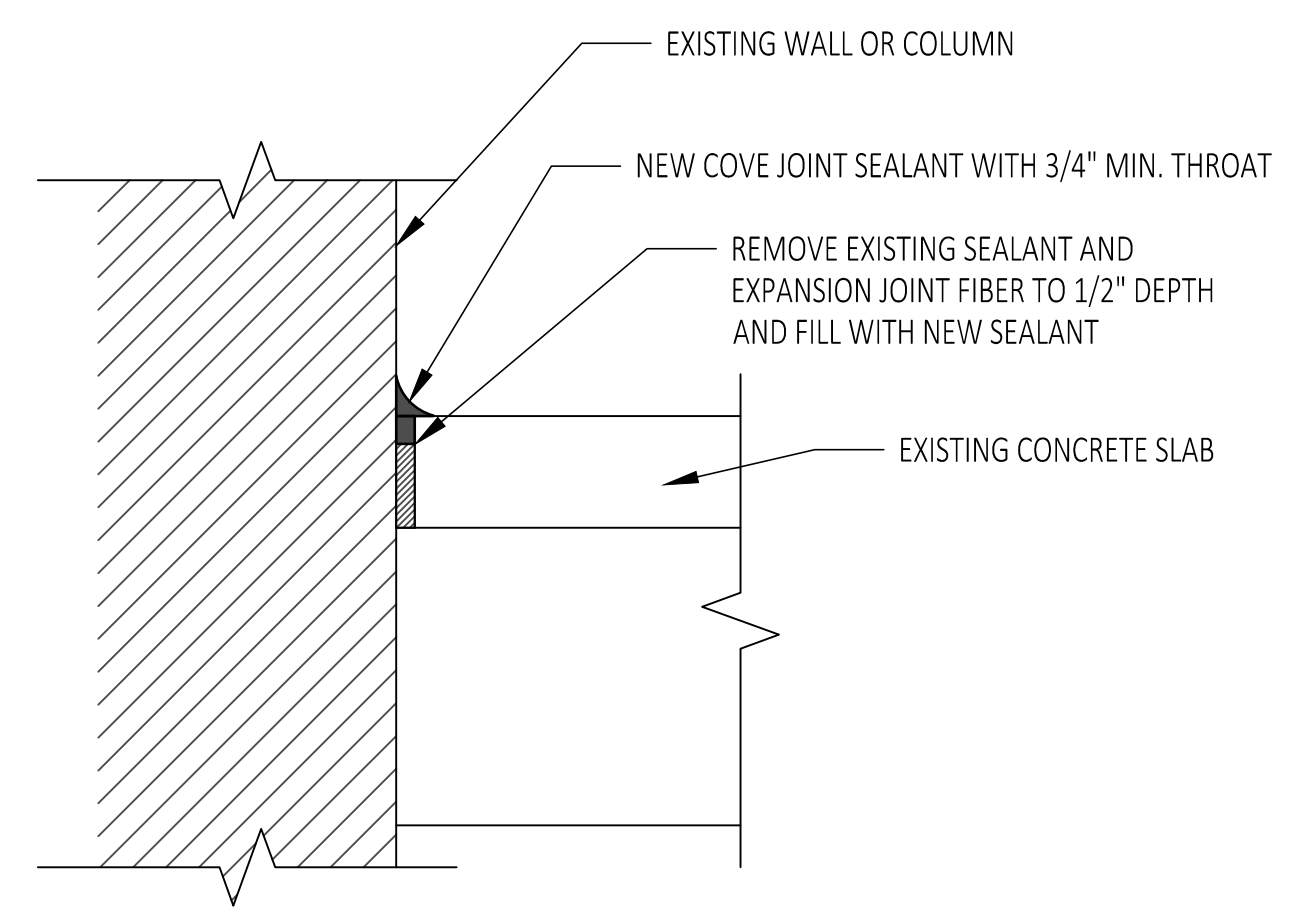
5
R-108 NOT TO SCALE
TUCKPOINTING DETAIL



NOTES:

- SELECTIVE DEMOLITION AND REMOVAL SHALL BE IN ACCORDANCE WITH SECTION 02 41 16.
- MASONRY REPLACEMENT SHALL BE IN ACCORDANCE WITH SECTION 04 01 20.91

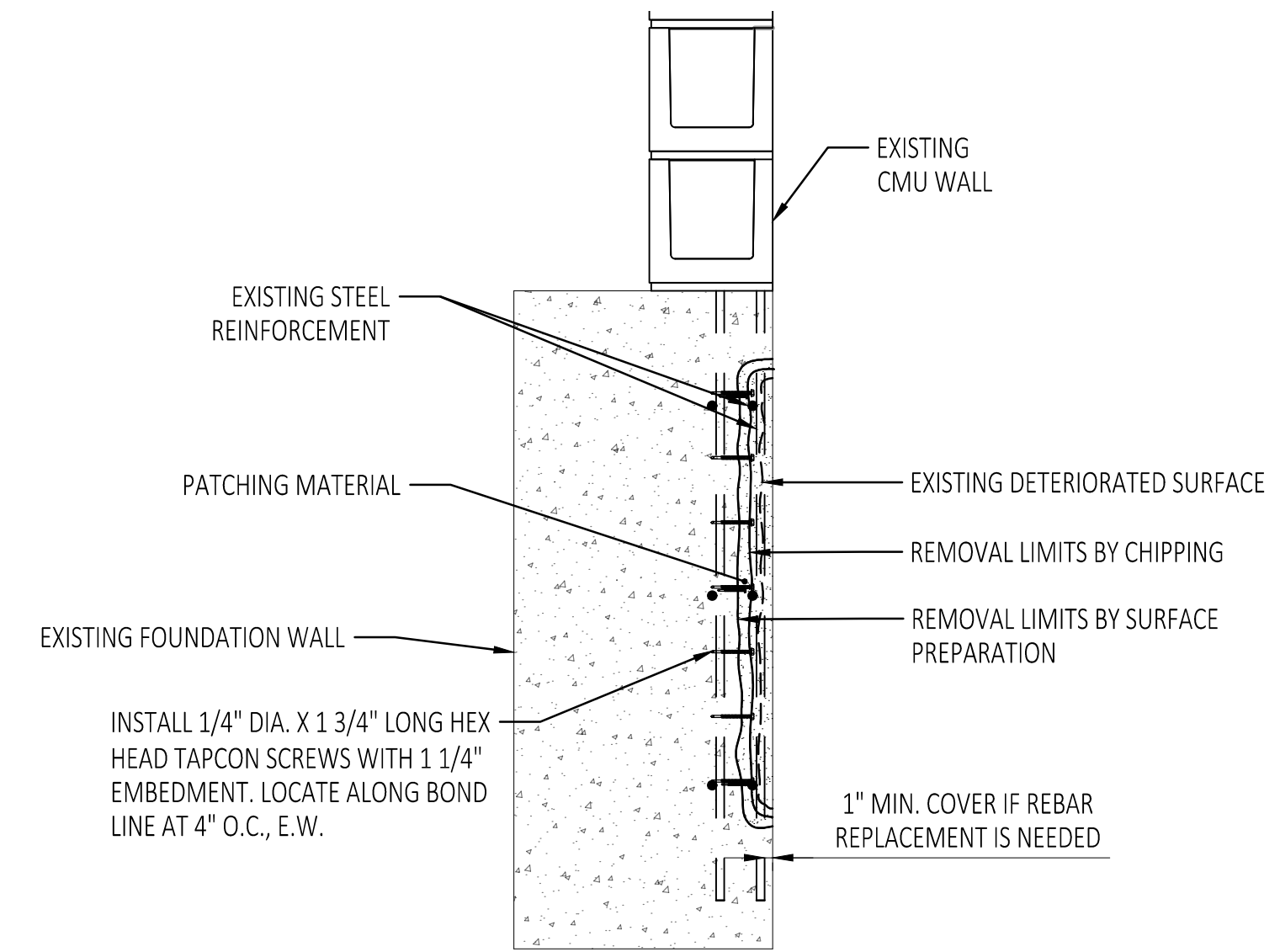
2
R-108 NOT TO SCALE
CMU BLOCK REPLACEMENT DETAIL



4
R-108 NOT TO SCALE
SIDEWALK-BUILDING ISOLATION JOINT DETAIL

SEALANT REPLACEMENT NOTES:

- REMOVE EXISTING SEALANT MATERIAL AND CLEAN JOINT OF DEBRIS OR OTHER RESIDUE FROM EXISTING SEALANT.
- PREPARE CONCRETE SURFACES TO RECEIVE SEALANT IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
- IF JOINT CONTAINS EXPANSION FIBER MATERIAL, REMOVE EXCESS FIBER AS SHOWN ON DETAILS



6
R-108 NOT TO SCALE
VERTICAL CONCRETE REPAIR

NOTES:

- SAW CUT PERIMETER OF REPAIR AREA (1/2-INCH DEPTH). DO NOT CUT REINFORCING BARS. REMOVE CONCRETE UP TO 2-INCHES DEEP OR UNTIL THE EXISTING STEEL REINFORCEMENT IS EXPOSED.
- PREPARE EXPOSED REINFORCING TO WHITE METAL CONDITION AND COAT ALL EXPOSED STEEL REINFORCEMENT WITH ANTI-CORROSION COATING AND ADD SUPPLEMENTAL STEEL WHERE DETERMINED NECESSARY BY THE ENGINEER (SEE DETAIL 5/6 FOR SUPPLEMENTAL STEEL).
- INSTALL 1/4" DIA. X 1 3/4" LONG, HEX HEAD TAPCON SCREWS AT 4" O.C. EACH WAY WITH 1 1/4" EMBEDMENT (MIN. 1/2" CONCRETE COVER) AT PREPARED SURFACE AND AS ACCEPTABLE BY THE ENGINEER.
- APPLY BONDING AGENT TO CLEAN CONCRETE AND AND CLEAN STEEL SURFACE IMMEDIATELY BEFORE PLACING REPAIR MORTAR.
- PLACE MORTAR IN REPAIR AREA (MIX, POUR, AND CURE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS).

ALTERNATE 1

DTMB FILE NO. 591 22274.MNB

STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATE FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ADAM P. LACH, RA, DIRECTOR

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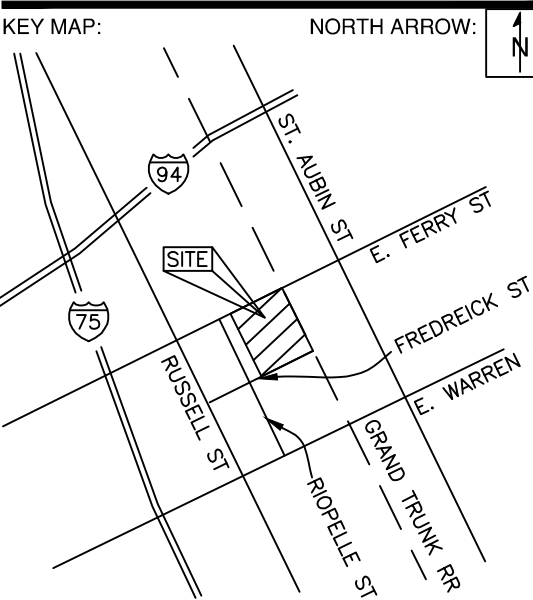
For free location of public utility lines.
ALTERNATE NUMBER 0113
COLOR CODES FOR UTILITY LOCATING:

Yellow	Oil & Gas	Blue	Water
Orange	Phone & Cable	Green	Storm Drain
Red	Electric	Brown	Sanitary
Pink	Fire	Purple	Sanctuary

IF YOU ARE GOING TO WORK NEAR OVERHEAD WIRES ... CALL MISS DIG



SEAL/STAMP:



REVISION BLOCK	
REV	DATE: DESCRIPTION
△	ADDENDUM NO. 1 03/12/2025

SUBMITTAL LOG	
DATE	PACKAGE NAME
2023-12-19	75% DRAWINGS
2024-03-06	90% DRAWINGS
2025-01-31	ISSUED FOR BID
2025-03-07	BULLETIN NO. 1

PROJECT NAME:
**MDOT DETROIT GARAGE
STORM SEWER
RECONSTRUCTION**

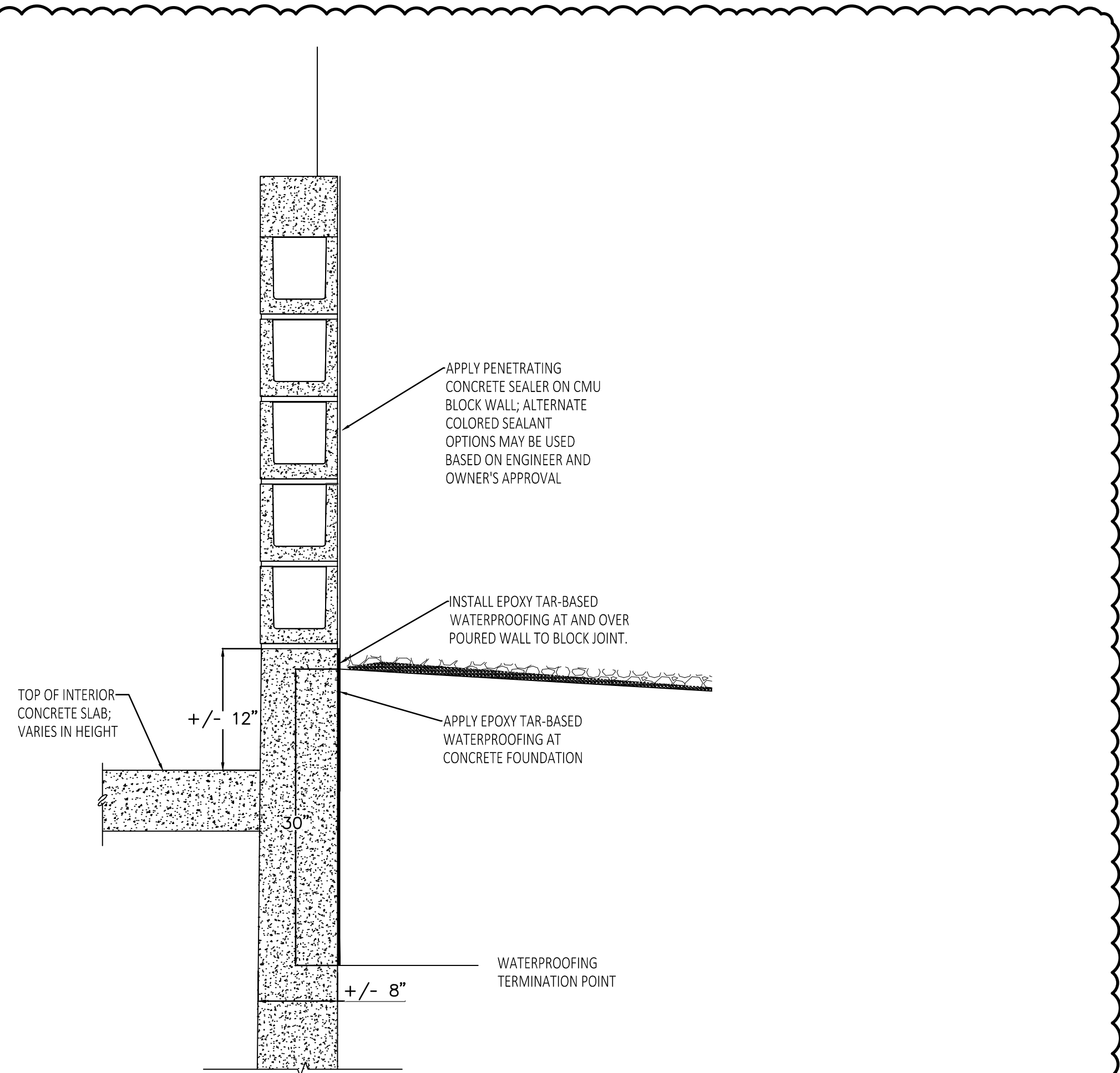
PROJECT LOCATION:
**1500 E. FERRY STREET
DETROIT, MICHIGAN**

DESIGNED BY: MAA	NTH PROJECT NO.: 23001451
DRAWN BY: MAA	SHEET SIZE: ARCH D (24"x36")
CHECKED BY: JBS	DATE: 08/19/2024
CAD FILE NAME: 23001451	

SHEET TITLE:
REPAIR DETAILS

SHEET NUMBER:

R-109



1 WATERPROOFING DETAIL
R-109 NOT TO SCALE

NOTES:

- CONTRACTOR TO EXPOSE A MINIMUM OF 30-INCHES OF CONCRETE FOUNDATION.
- PERFORM VERTICAL CONCRETE REPAIR PER DETAIL 6/R-108, IF NECESSARY, AS DIRECTED BY THE ENGINEER.
- PREPARE CONCRETE SURFACES TO RECEIVE TAR-BASED WATERPROOFING AT CONCRETE FOUNDATION IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
- THE CONTRACTOR SHALL APPLY WATERPROOFING TO THE CONCRETE FOUNDATION AT ALL ELEVATIONS, EXCEPT ON THE NORTH AND WEST SIDES WHERE THE EXISTING CONCRETE PAVEMENT AND STAIRS WILL REMAIN.
- APPLY PENETRATING CONCRETE COATING ON CMU BLOCK WALL AS PER MANUFACTURER SPECIFICATIONS.

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ALTERNATE 1

DTMB FILE NO. 591_22274.MNB



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