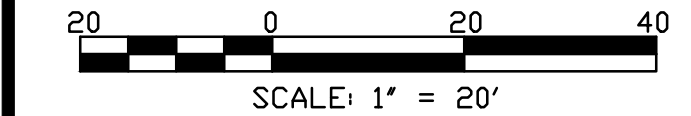
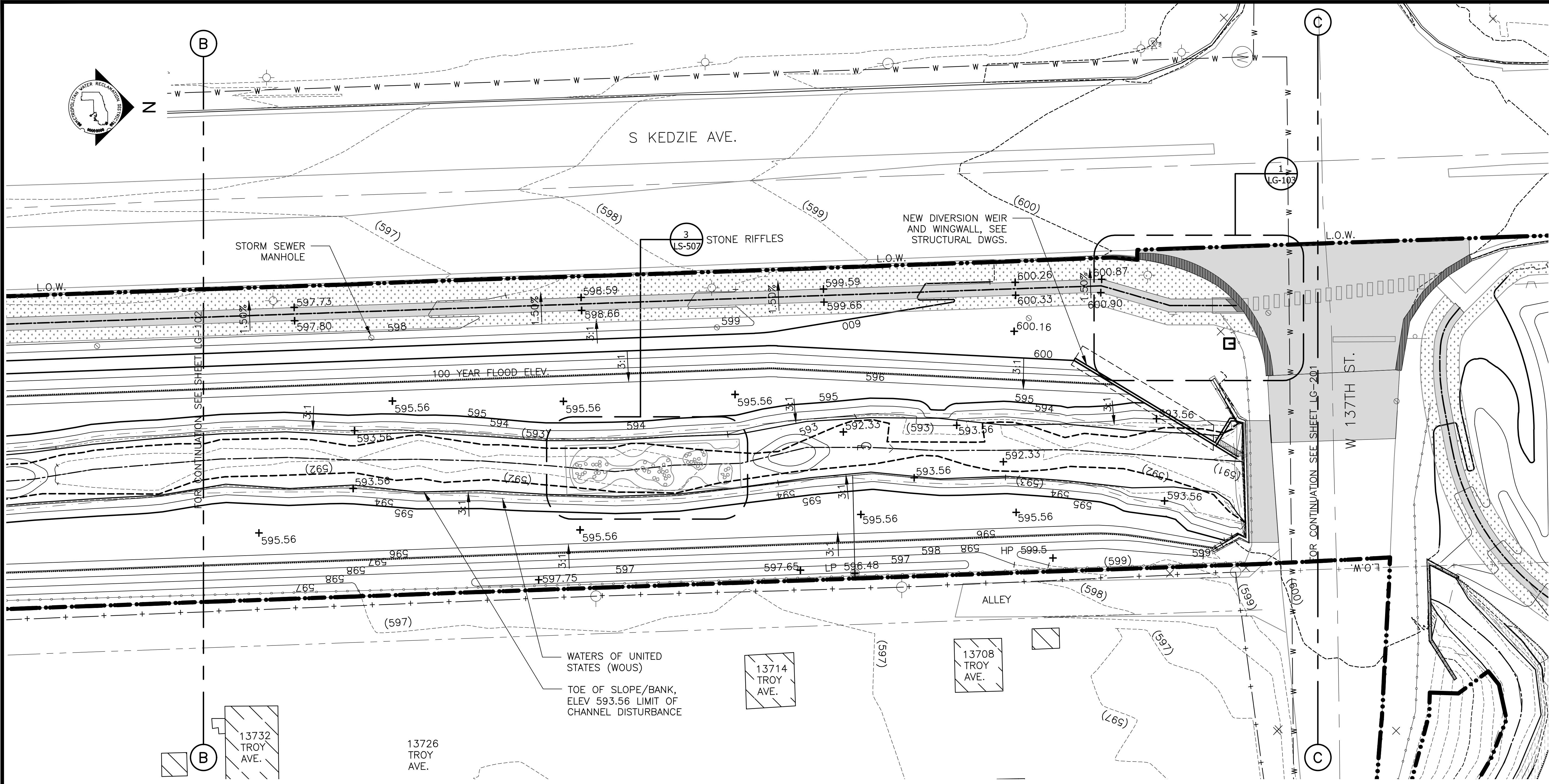


PLOT DATE: 8/13/2024 11:35 AM PLOTTED BY: HANNAH CUSICK
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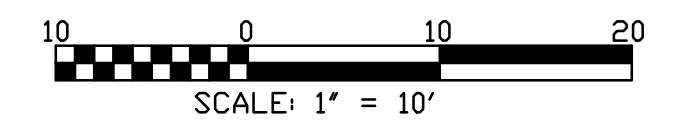
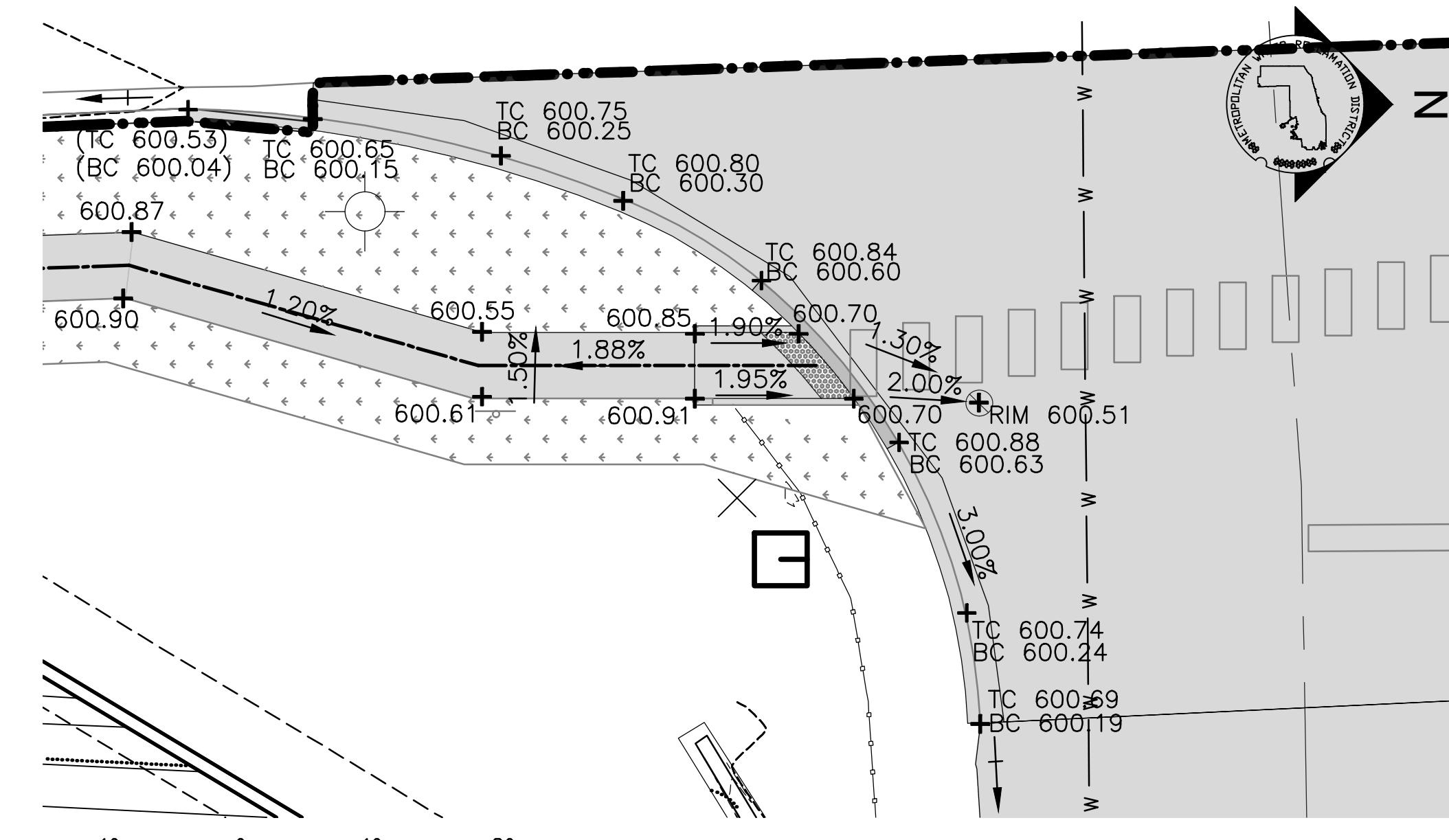
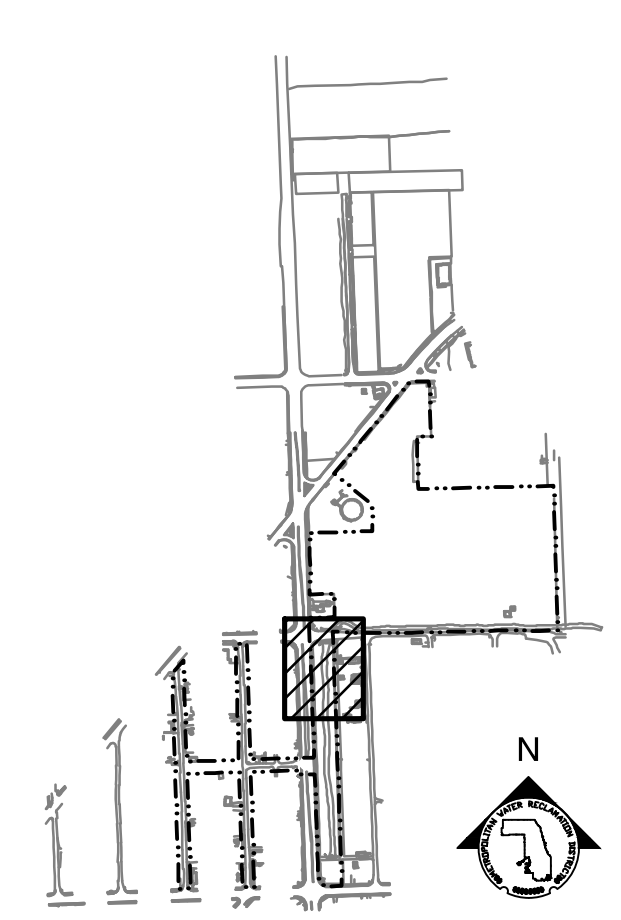
GRADING NOTES:

1. REFERENCE NOTES ON GRADING DRAWING LG-101.
2. SEE UTILITY DRAWINGS FOR CULVERT AND STORM SEWER INFORMATION.

LEGEND:

- | | | | |
|--------------------------|--|---------|------------------------------|
| --- L.O.W. --- | LIMIT OF WORK | + MEX | MEET EXISTING ELEVATION |
| --- WOUS --- | WATERS OF UNITED STATES (WOUS) | + HP | HIGH POINT |
| ----- CHANNEL MEAN ELEV. | | + LP | LOW POINT |
| ----- 100 YR FLOOD ELEV. | | + 600 | PROPOSED ELEVATION |
| --- (600) --- | EXISTING CONTOUR | + (600) | EXISTING ELEVATION |
| --- 600 --- | PROPOSED CONTOUR | + TC | TOP OF CURB |
| [Pattern] | MOWN TURF PATH/LANDING | + BC | BOTTOM OF CURB |
| [Pattern] | SIDEWALK, SEE LM SERIES FOR MATERIALS/FINISHES | + TW | TOP OF WALL |
| [Pattern] | ASPHALT PAVEMENT, SEE LM SERIES FOR MATERIALS/FINISHES | + BW | BOTTOM OF WALL |
| [Pattern] | CURB AND GUTTER | 4.99% | DIRECTION & PERCENT OF SLOPE |
| [Pattern] | DETECTABLE WARNING STRIP | 5:1 | H:V SLOPE DESIGNATION |
| [Box] | ENLARGEMENT BOX | | |

PARTIAL GRADING PLAN
SCALE = 1"=20'



1 CURB RAMP ENLARGEMENT
SCALE: 1"=10'

| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| 1 | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

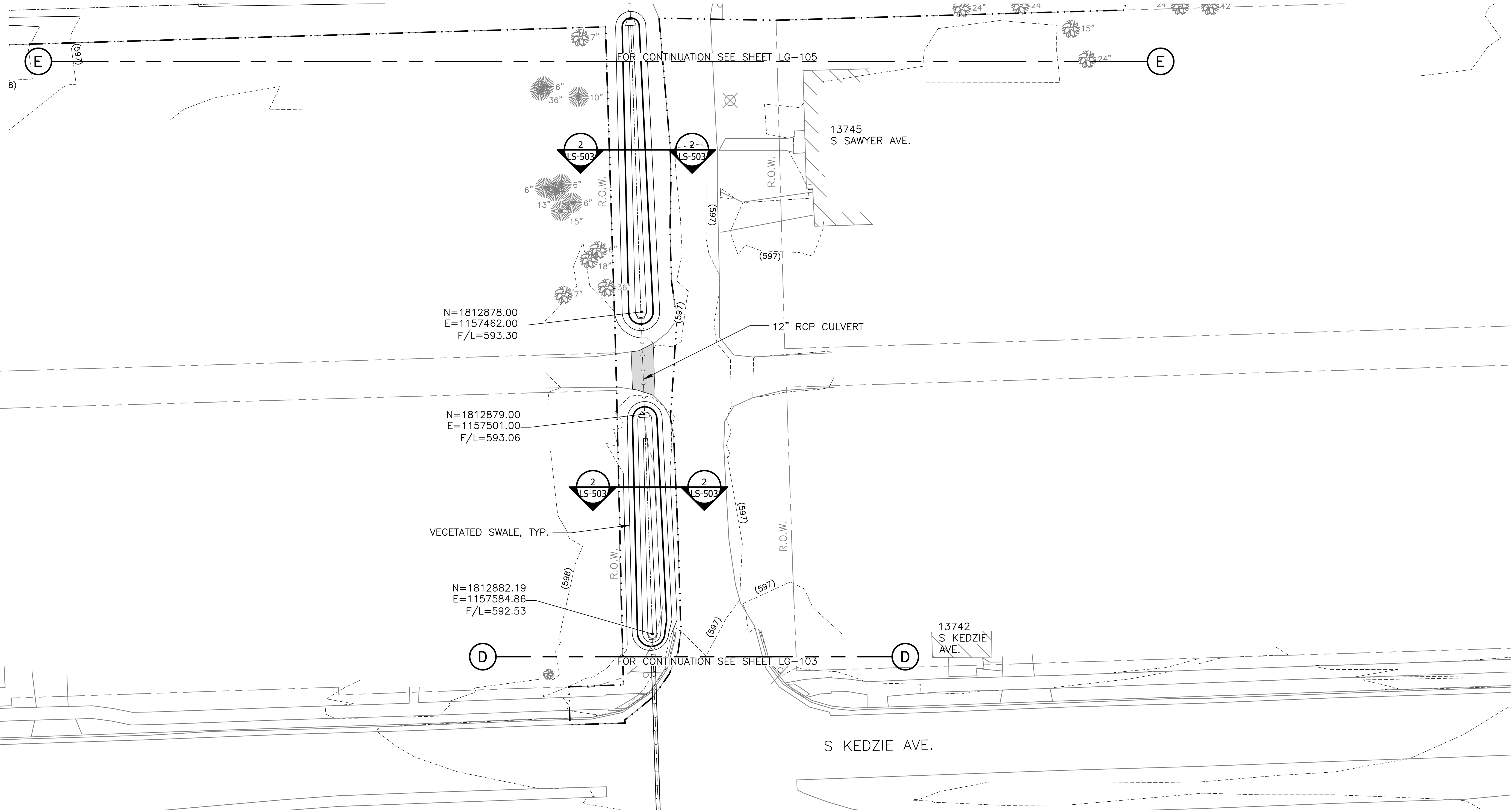
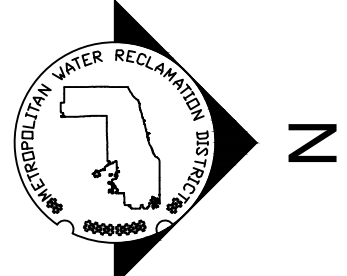
CONTRACT 14-253-5FR
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

Designed by: LH
Checked by: LH
Drawn by: LH
Reviewed by: LH
Date: MAY 2024
Scale: AS SHOWN

DONOHUE
Accurate
O'Brien & Associates, Inc.
CONSULTING ENGINEERS

LIVING HABITATS

Sheet Number:
LG-103
Page Number: 104



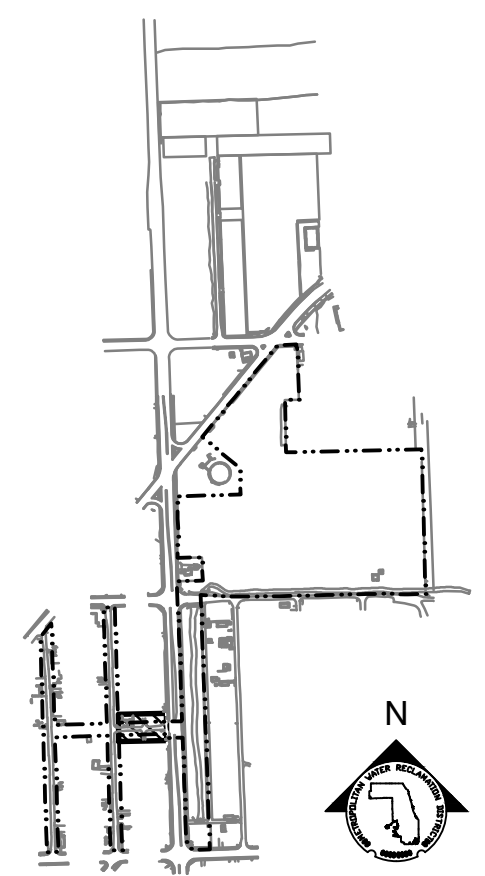
PARTIAL GRADING PLAN - 138TH ST
SCALE = 1"=20'

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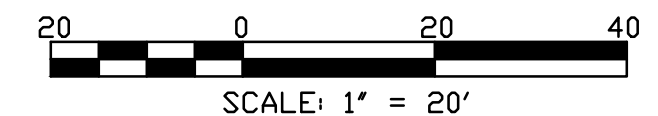
1. REFERENCE NOTES ON GRADING DRAWING LG-101.
2. SEE DRAWING CU-101 FOR CULVERT INFORMATION.

LEGEND:

| | | | | |
|--|----------|--|---------|------------------------------|
| | L.O.W. | LIMIT OF WORK | + MEX | MEET EXISTING ELEVATION |
| | W.O.U.S. | WATERS OF UNITED STATES (WOUS) | + HP | HIGH POINT |
| | | CHANNEL MEAN ELEV. | + LP | LOW POINT |
| | | 100 YR FLOOD ELEV. | + 600 | PROPOSED ELEVATION |
| | (600) | EXISTING CONTOUR | + (600) | EXISTING ELEVATION |
| | 600 | PROPOSED CONTOUR | + TC | TOP OF CURB |
| | | GUARDRAIL | + BC | BOTTOM OF CURB |
| | | MOWN LAWN PATH/LANDING | + TW | TOP OF WALL |
| | | SIDEWALK, SEE LM SERIES FOR MATERIALS/FINISHES | + BW | BOTTOM OF WALL |
| | | ENLARGEMENT BOX | 4.99% | DIRECTION & PERCENT OF SLOPE |
| | | | 5:1 | H:V SLOPE DESIGNATION |



KEY MAP



| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| | ISSUE FOR CONSTRUCTION | MLM | 08/2024 |
| | | | |
| | | | |
| | | | |
| | | | |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5FR
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

| | |
|---------------------|---------------------|
| Designed by: MLM | Checked by: PMS |
| Drawn by: MLM | Reviewed by: EPC |
| Date: MAY 2024 | Scale: AS SHOWN |

LIVING HABITATS

DONOHUE

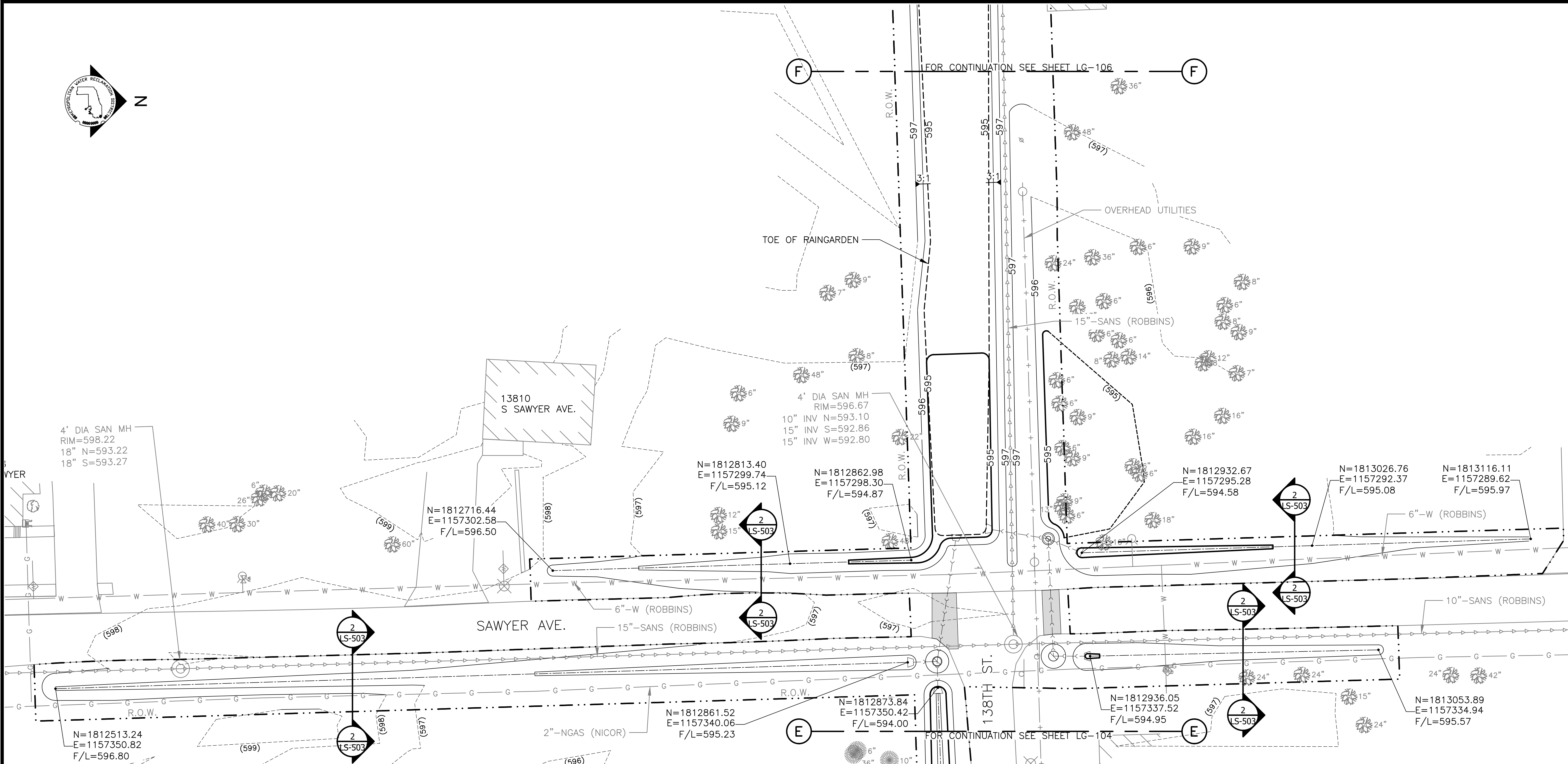
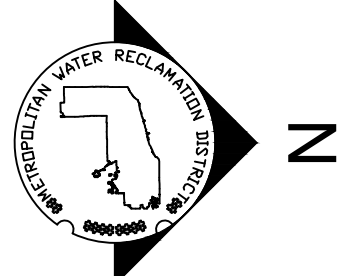
Accurato

Zim

O'Brien & Associates, Inc.
CONSULTING ENGINEERS

CONTRACT 14-253-5FR
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

Sheet Number:
LG-104
Page Number: 105



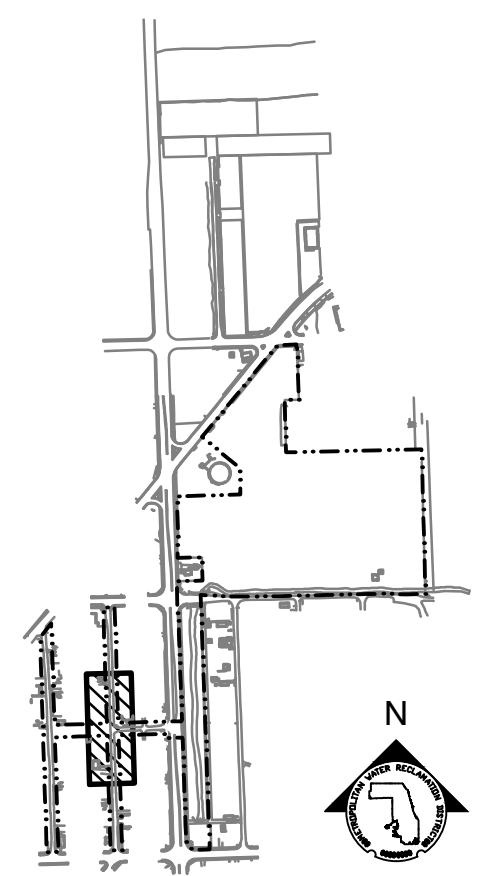
PARTIAL GRADING PLAN - SAWYER AVE
SCALE = 1"=20'

GRADING NOTES:

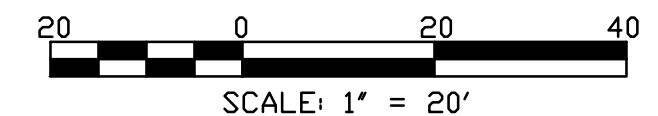
1. REFERENCE NOTES ON GRADING DRAWING LG-101.
2. SEE DRAWING CU-101 FOR CULVERT INFORMATION.

LEGEND:

| | | | | |
|--|----------|--|---------|------------------------------|
| | L.O.W. | LIMIT OF WORK | + MEX | MEET EXISTING ELEVATION |
| | W.O.U.S. | WATERS OF UNITED STATES (W.O.U.S.) | + HP | HIGH POINT |
| | | CHANNEL MEAN ELEV. | + LP | LOW POINT |
| | | 100 YR FLOOD ELEV. | + 600 | PROPOSED ELEVATION |
| | (600) | EXISTING CONTOUR | + (600) | EXISTING ELEVATION |
| | 600 | PROPOSED CONTOUR | + TC | TOP OF CURB |
| | | GUARDRAIL | + BC | BOTTOM OF CURB |
| | | MOWN LAWN PATH/LANDING | + TW | TOP OF WALL |
| | | SIDEWALK, SEE LM SERIES FOR MATERIALS/FINISHES | + BW | BOTTOM OF WALL |
| | | ENLARGEMENT BOX | 4.99% | DIRECTION & PERCENT OF SLOPE |
| | | | 5:1 | H:V SLOPE DESIGNATION |



KEY MAP



SCALE: 1" = 20'

| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| | ISSUE FOR CONSTRUCTION | MLM | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

Designed by: MLM
Checked by: PMS

Drawn by: MLM
Reviewed by: EPC

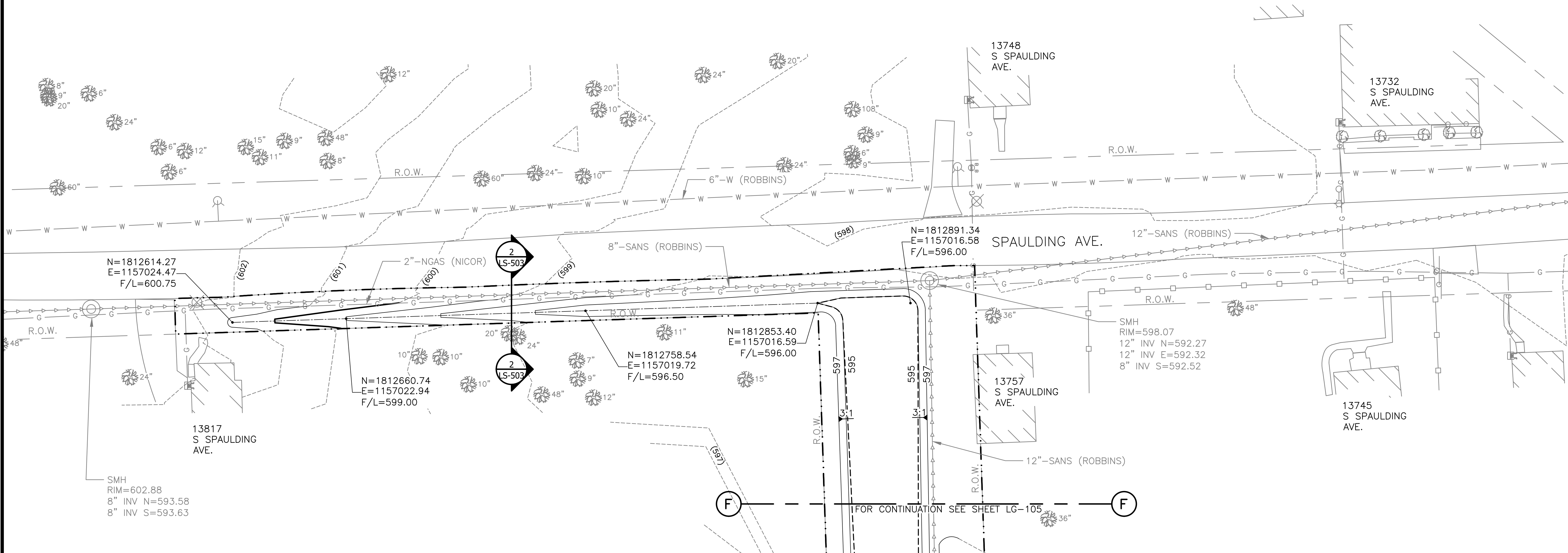
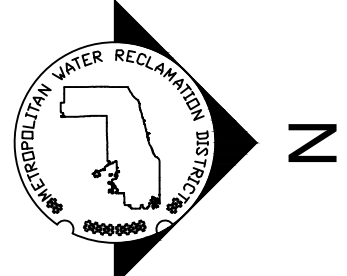
Date: MAY 2024
Scale: AS SHOWN

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LIVING HABITATS

CONTRACT 14-253-5FR
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

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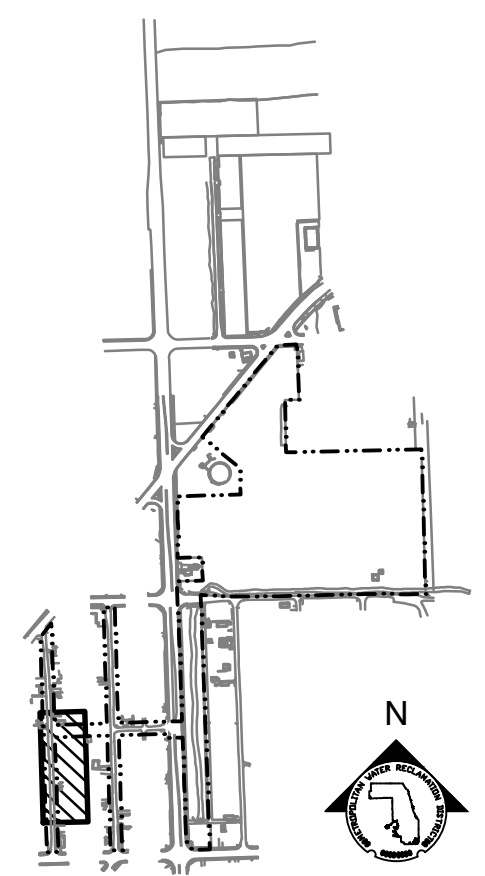
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SCALE = 1"=20'

GRADING NOTES:

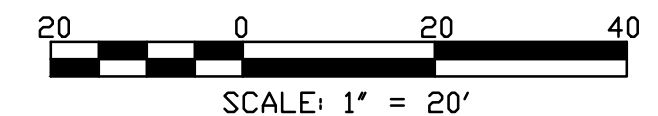
1. REFERENCE NOTES ON GRADING DRAWING LG-101.
2. SEE DRAWING CU-101 FOR CULVERT INFORMATION.

LEGEND:

| | | | | |
|--|----------|--|---------|------------------------------|
| | L.O.W. | LIMIT OF WORK | + MEX | MEET EXISTING ELEVATION |
| | W.O.U.S. | WATERS OF UNITED STATES (WOUS) | + HP | HIGH POINT |
| | | CHANNEL MEAN ELEV. | + LP | LOW POINT |
| | | 100 YR FLOOD ELEV. | + 600 | PROPOSED ELEVATION |
| | (600) | EXISTING CONTOUR | + (600) | EXISTING ELEVATION |
| | 600 | PROPOSED CONTOUR | + TC | TOP OF CURB |
| | | GUARDRAIL | + BC | BOTTOM OF CURB |
| | | MOWN LAWN PATH/LANDING | + TW | TOP OF WALL |
| | | SIDEWALK, SEE LM SERIES FOR MATERIALS/FINISHES | + BW | BOTTOM OF WALL |
| | | ENLARGEMENT BOX | 4.99% | DIRECTION & PERCENT OF SLOPE |
| | | | 5:1 | H:V SLOPE DESIGNATION |



KEY MAP



SCALE: 1" = 20'

| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| | ISSUE FOR CONSTRUCTION | MLM | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

Designed by: MLM
Checked by: PMS

Drawn by: MLM
Reviewed by: EPC

Date: MAY 2024
Scale: AS SHOWN

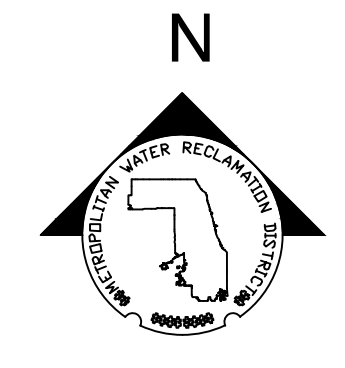
DONOHUE
Accurate
O'Brien & Associates, Inc.
CONSULTING ENGINEERS

LIVING HABITATS

CONTRACT 14-253-5FR
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

Sheet Number:
LG-106
Page Number: 107

PLOT DATE: 8/13/2024 11:35 AM PLOTTED BY: HANNAH CUSICK
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(G)

S KEDZIE AVE.

FOR CONTINUATION SEE SHEET LG-204

(E)

1
LG-201

W 137TH ST.

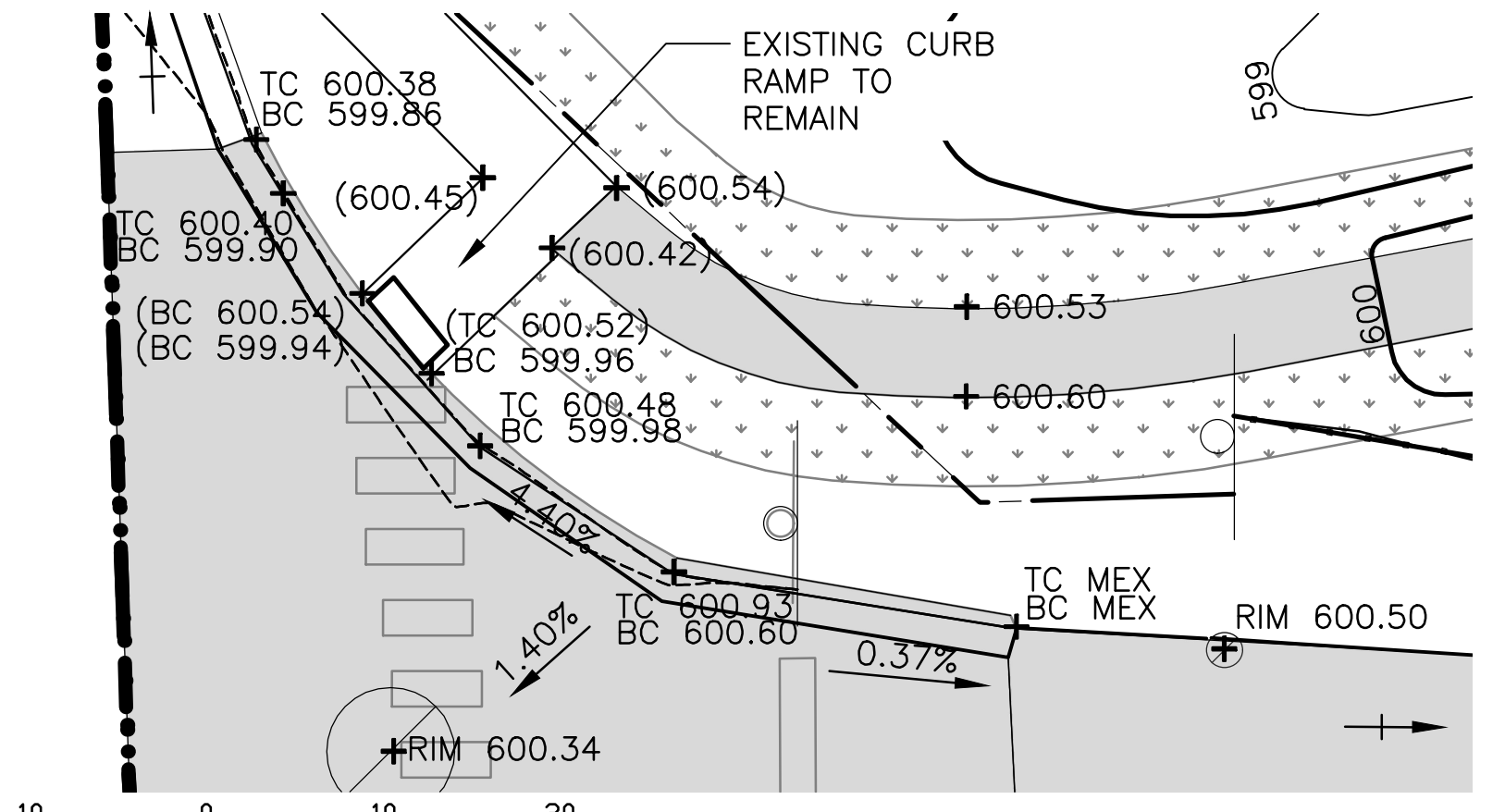
FOR CONTINUATION SEE SHEET LG-101

TROY AVE

(E)

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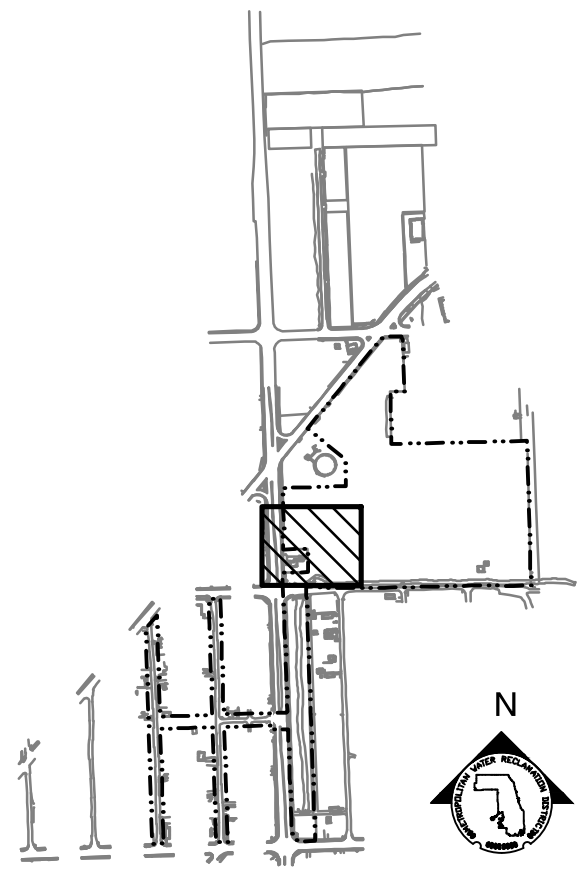


1 CURB RAMP ENLARGEMENT
SCALE: 1"=10'

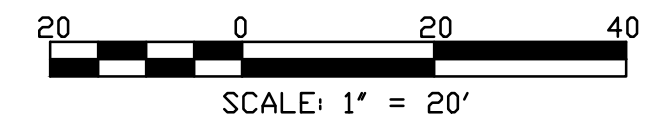
LEGEND:

- L.O.W. LIMIT OF WORK
- WOUS WATERS OF UNITED STATES (WOUS)
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- (600) EXISTING CONTOUR
- 600 PROPOSED CONTOUR
- GUARDRAIL
- MOWN TURF PATH/LANDING
- DREDGE CHANNEL
- SIDEWALK, SEE LM SERIES FOR MATERIALS/FINISHES
- STONE ARMORING, SEE LM SERIES AND LS-506
- RIP RAP, SEE LM SERIES AND 2/LS-501
- EXPOSED BEDROCK
- ENLARGEMENT BOX
- + MEX MEET EXISTING ELEVATION
- + HP HIGH POINT
- + LP LOW POINT
- + 600 PROPOSED ELEVATION
- + (600) EXISTING ELEVATION
- + TC TOP OF CURB
- + BC BOTTOM OF CURB
- + TW TOP OF WALL
- + BW BOTTOM OF WALL
- 4.99% DIRECTION & PERCENT OF SLOPE
- 5:1 H:V SLOPE DESIGNATION

PARTIAL GRADING PLAN
SCALE = 1"=20'



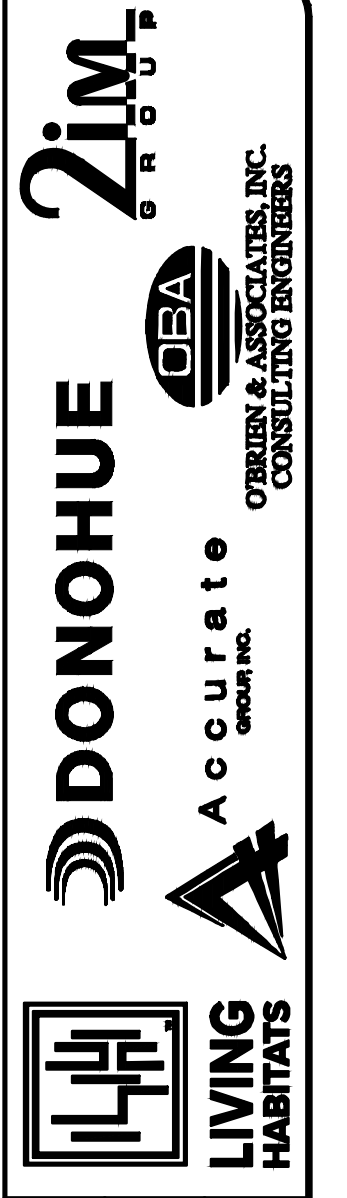
KEY MAP



SCALE: 1" = 20'

| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| 1 | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT
OF GREATER CHICAGO

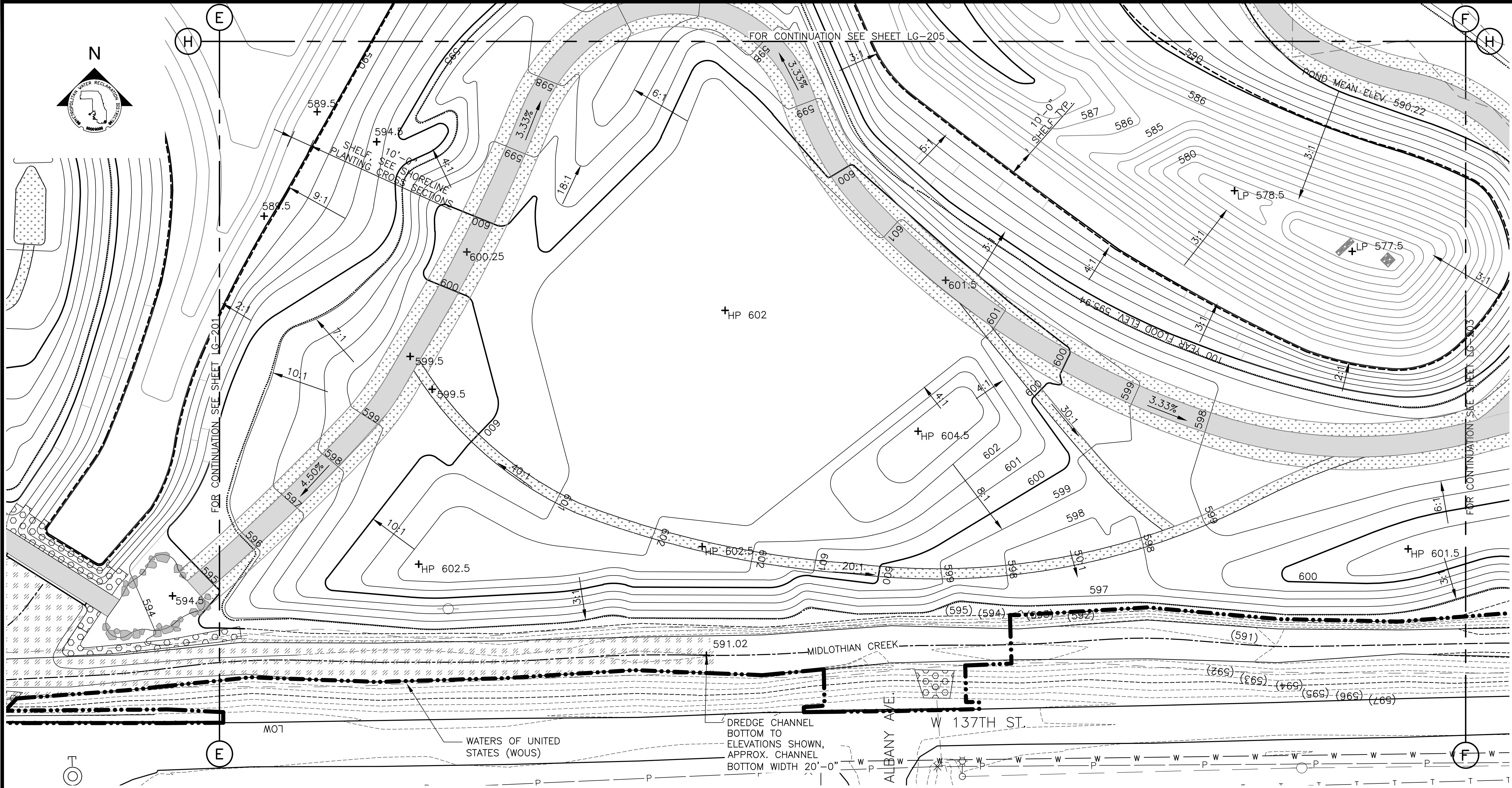


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|--------------|----------|--------------|----------|
| Designed by: | LH | Checked by: | LH |
| Drawn by: | LH | Reviewed by: | LH |
| Date: | MAY 2024 | Scale: | AS SHOWN |

CONTRACT 14-253-5FR
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

Sheet Number:
LG-201
Page Number: 108

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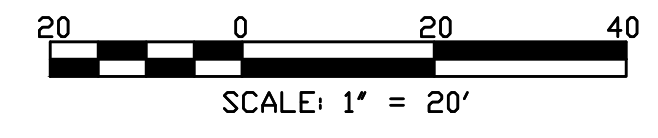
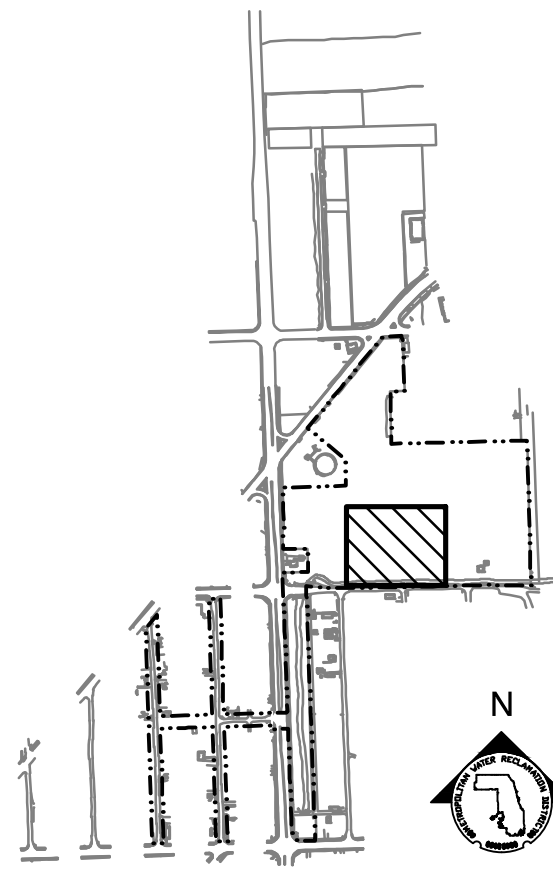


GRADING NOTES:

- REFERENCE NOTES ON GRADING DRAWING ON LG-101.

LEGEND:

| | | | |
|----------------------|--|-----------------------------|------------------------------|
| --- L.O.W. --- | LIMIT OF WORK | PARTIAL GRADING PLAN | |
| - - - W.O.U.S. - - - | WATERS OF UNITED STATES (W.O.U.S.) | SCALE = 1"=20' | |
| ----- | CHANNEL MEAN ELEV. | + MEX | MEET EXISTING ELEVATION |
| | 100 YR FLOOD ELEV. | + HP | HIGH POINT |
| (600) | EXISTING CONTOUR | + LP | LOW POINT |
| 600 | PROPOSED CONTOUR | + 600 | PROPOSED ELEVATION |
| [Pattern] | MOWN TURF PATH/LANDING | + (600) | EXISTING ELEVATION |
| [Pattern] | DREDGE CHANNEL | + TC | TOP OF CURB |
| [Pattern] | SIDEWALK, SEE LM SERIES FOR MATERIALS/FINISHES | + BC | BOTTOM OF CURB |
| [Pattern] | STONE ARMORING, SEE LM SERIES AND LS-506 | + TW | TOP OF WALL |
| [Pattern] | RIP RAP, SEE LM SERIES AND 2/LS-501 | + BW | BOTTOM OF WALL |
| [Pattern] | FISH HABITAT SEE 1/LS-508 AND 2/LS-508 | 4.99% | DIRECTION & PERCENT OF SLOPE |
| [Box] | ENLARGEMENT BOX | 5:1 | H:V SLOPE DESIGNATION |



| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

Contract 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

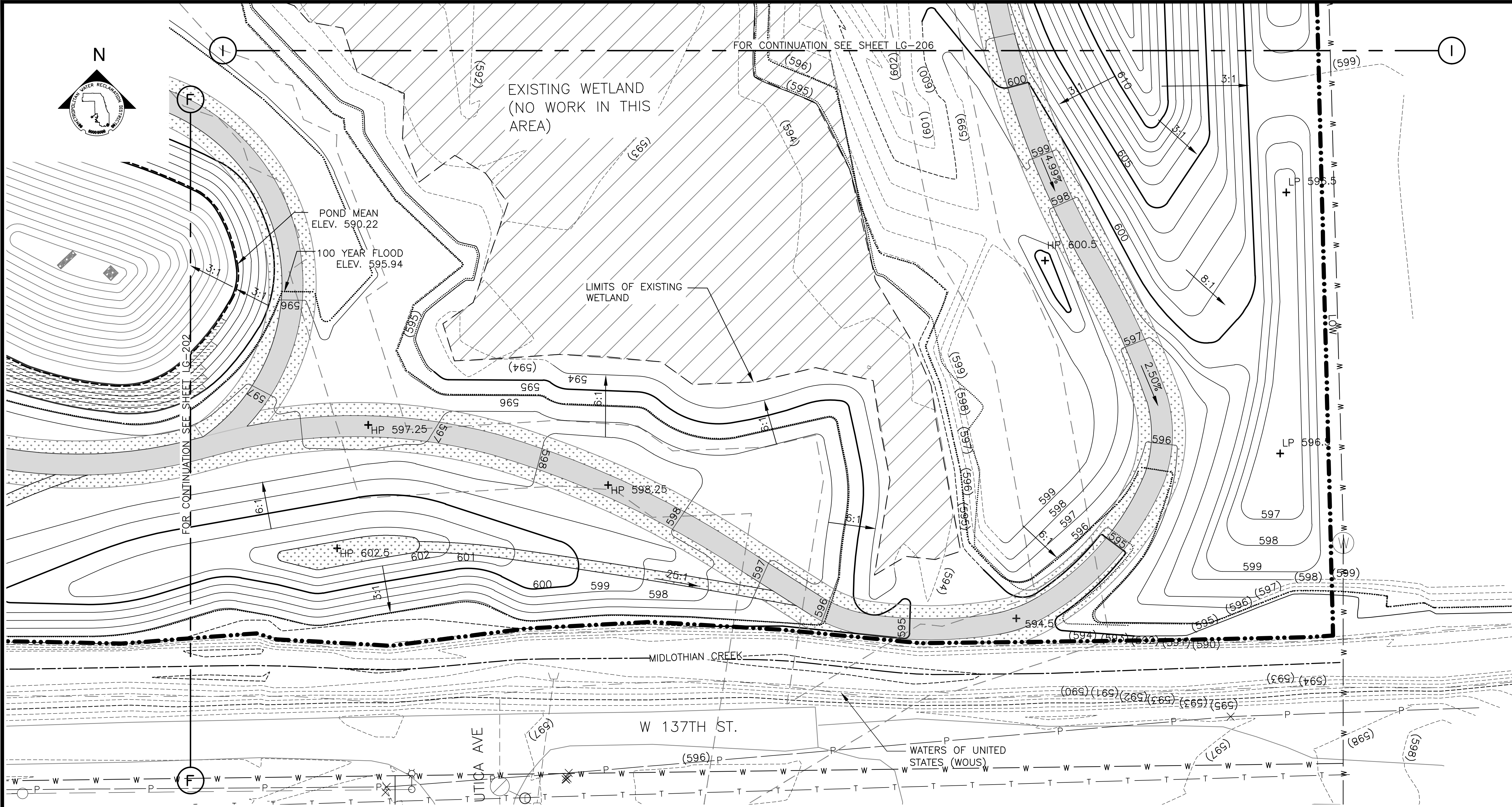
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 Checked by: LH
 Drawn by: LH
 Reviewed by: LH
 Date: MAY 2024
 Scale: AS SHOWN

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LIVING HABITATS

Sheet Number:
LG-202
 Page Number: 109

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GRADING NOTES:

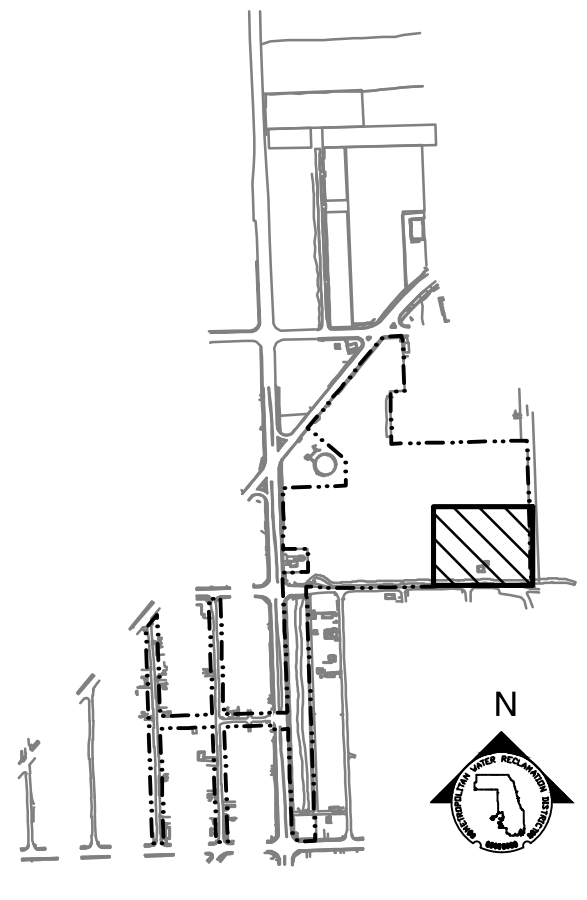
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LEGEND:

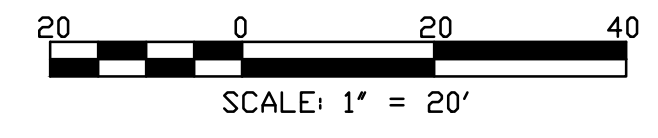
- L.O.W. LIMIT OF WORK
- - - WOUS WATERS OF UNITED STATES (WOUS)
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- (600)--- EXISTING CONTOUR
- 600 PROPOSED CONTOUR
- [Pattern] MOWN TURF PATH/LANDING
- [Pattern] SIDEWALK, SEE LM SERIES FOR MATERIALS/FINISHES
- [Pattern] STONE ARMORING, SEE LM SERIES AND LS-506
- [Pattern] RIP RAP, SEE LM SERIES AND 2/LS-501
- [Pattern] FISH HABITAT SEE 1/LS-508 AND 2/LS-508
- [Box] ENLARGEMENT BOX

PARTIAL GRADING PLAN
SCALE = 1"=20'

- + MEX MEET EXISTING ELEVATION
- + HP HIGH POINT
- + LP LOW POINT
- + 600 PROPOSED ELEVATION
- + (600) EXISTING ELEVATION
- + TC TOP OF CURB
- + BC BOTTOM OF CURB
- + TW TOP OF WALL
- + BW BOTTOM OF WALL
- 4.99% DIRECTION & PERCENT OF SLOPE
- 5:1 H:V SLOPE DESIGNATION



KEY MAP



| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| 1 | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5FR
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

Designed by: LH
Checked by: LH

Drawn by: LH
Reviewed by: LH

Date: MAY 2024
Scale: AS SHOWN

DONOHUE
Accurate
CONSULTING ENGINEERS

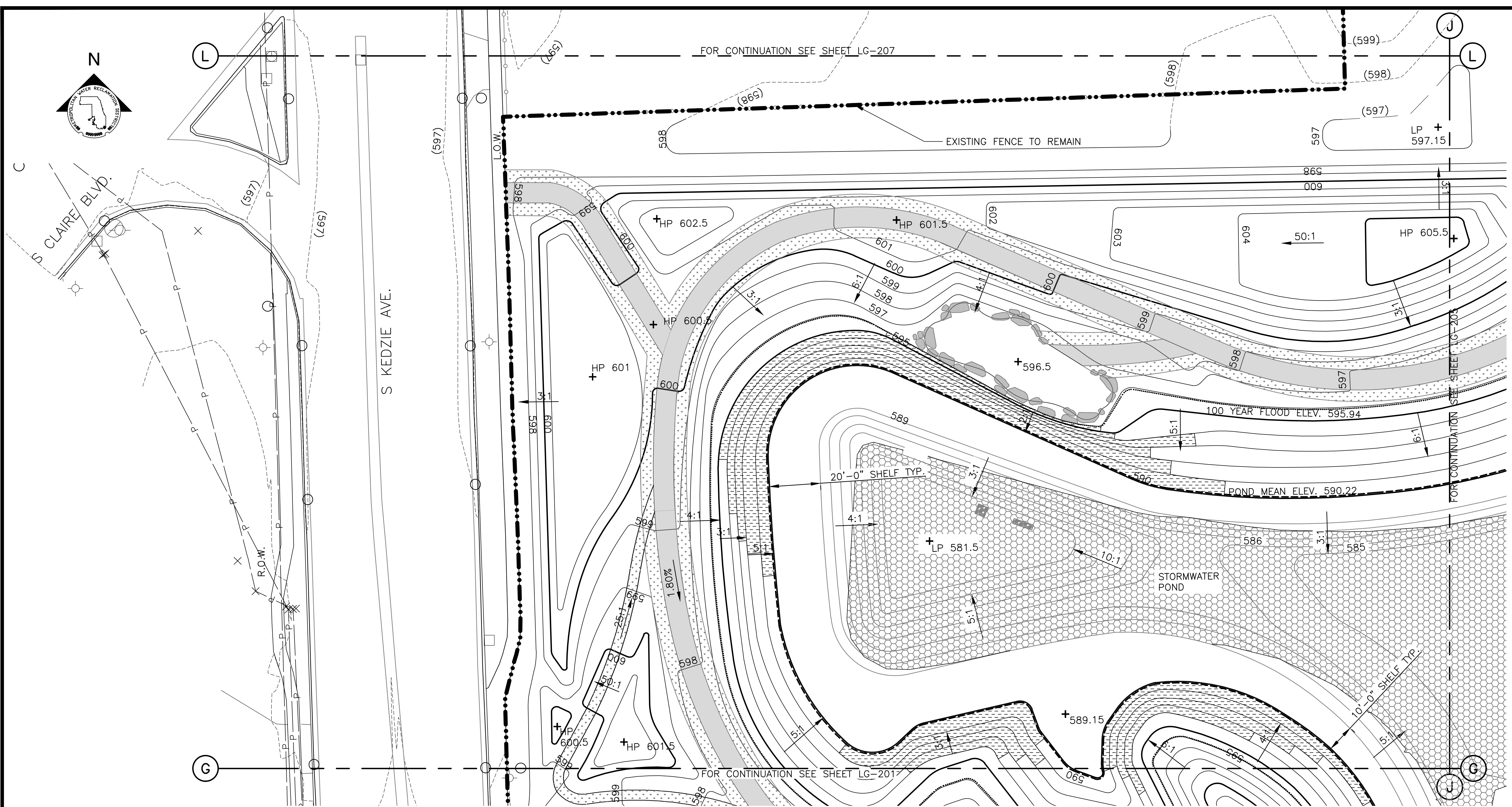
LIVING HABITATS

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ZIMMERMANN & ASSOCIATES, INC.
CONSULTING ENGINEERS

Sheet Number:
LG-203

Page Number: 110

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GRADING NOTES:

1. REFERENCE NOTES ON GRADING DRAWING LG-101.

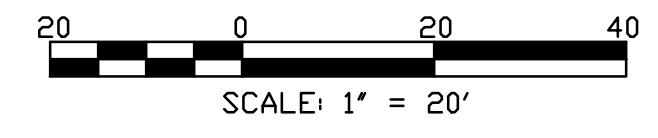
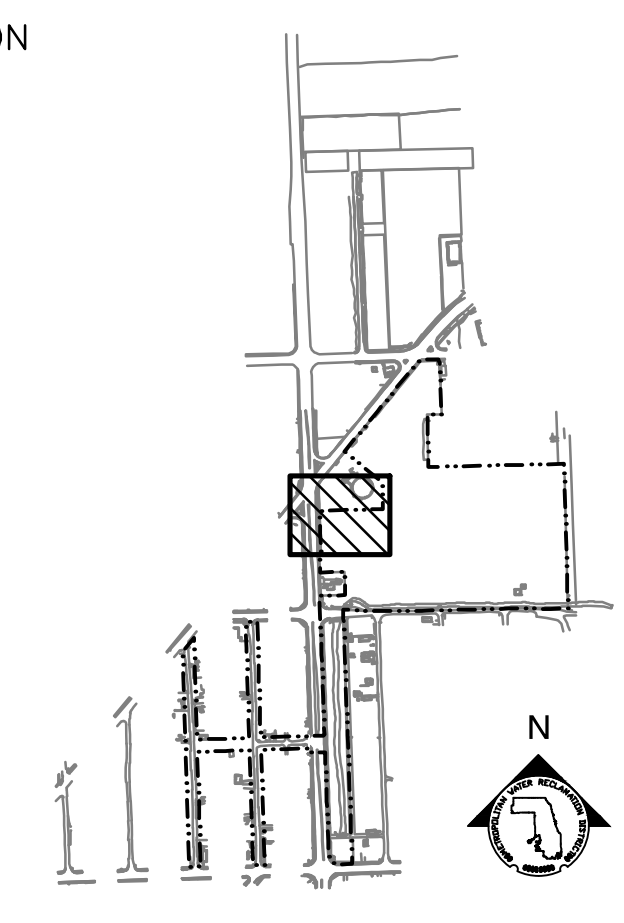
LEGEND:

- L.O.W. LIMIT OF WORK
- WOUS WATERS OF UNITED STATES (WOUS)
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- (600) EXISTING CONTOUR
- 600 PROPOSED CONTOUR
- MOWN TURF PATH/LANDING
- SIDEWALK, SEE LM SERIES FOR MATERIALS/FINISHES
- STONE ARMORING, SEE LM SERIES AND LS-506
- RIP RAP, SEE LM SERIES AND 2/LS-501
- EXPOSED BEDROCK
- FISH HABITAT SEE 1/LS-508 AND 2/LS-508
- ENLARGEMENT BOX

PARTIAL GRADING PLAN

SCALE = 1"=20'

- + MEX MEET EXISTING ELEVATION
- + HP HIGH POINT
- + LP LOW POINT
- + 600 PROPOSED ELEVATION
- + (600) EXISTING ELEVATION
- + TC TOP OF CURB
- + BC BOTTOM OF CURB
- + TW TOP OF WALL
- + BW BOTTOM OF WALL
- 4.99% DIRECTION & PERCENT OF SLOPE
- 5:1 H:V SLOPE DESIGNATION



METROPOLITAN WATER RECLAMATION DISTRICT
 OF GREATER CHICAGO

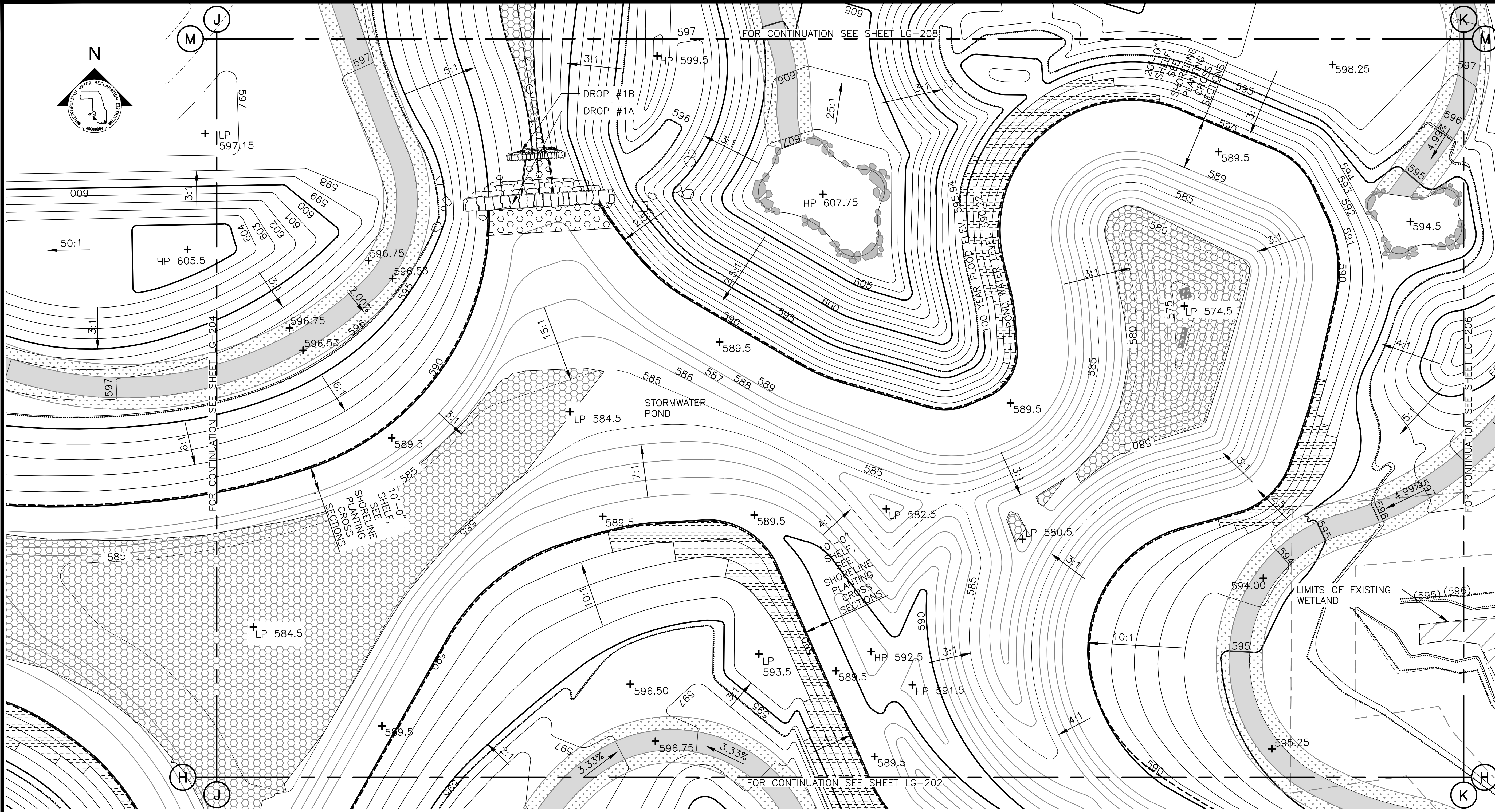
CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
 PARTIAL GRADING PLAN

Sheet Number:
LG-204
 Page Number: 111

| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| 01 | ISSUE FOR CONSTRUCTION | LH | 08/2024 |
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| | | | |

LIVING HABITATS
DONOHUE
Accurate
O'BRIEN & ASSOCIATES, INC.
 CONSULTING ENGINEERS

| | |
|--------------|--------------|
| Designed by: | Checked by: |
| LH | LH |
| Drawn by: | Reviewed by: |
| LH | LH |
| Date: | Scale: |
| MAY 2024 | AS SHOWN |



GRADING NOTES:

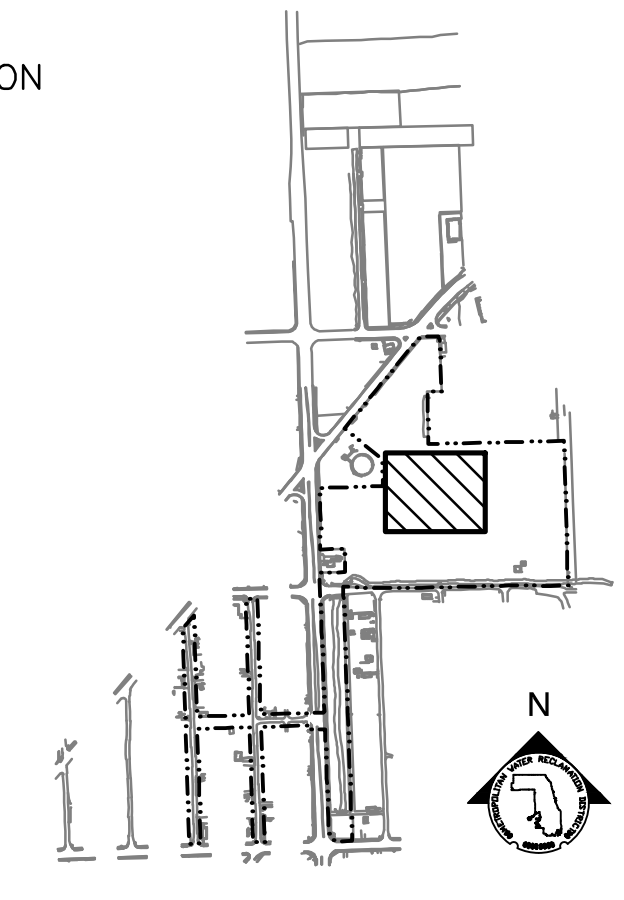
- 1. REFERENCE NOTES ON GRADING DRAWING LG-101.

LEGEND:

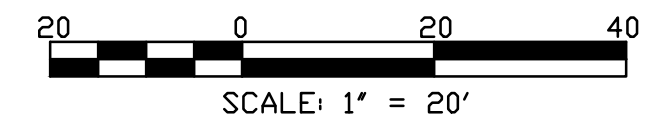
- | | | | |
|--|--------|--|--|
| | L.O.W. | LIMIT OF WORK | |
| | WOUS | WATERS OF UNITED STATES (WOUS) | |
| | | CHANNEL MEAN ELEV. | |
| | | 100 YR FLOOD ELEV. | |
| | (600) | EXISTING CONTOUR | |
| | 600 | PROPOSED CONTOUR | |
| | | MOWN TURF PATH/LANDING | |
| | | SIDEWALK, SEE LM SERIES FOR MATERIALS/FINISHES | |
| | | STONE ARMORING, SEE LM SERIES AND LS-506 | |
| | | FISH HABITAT SEE 1/LS-508 AND 2/LS-508 | |
| | | RIP RAP, SEE LM SERIES AND 2/LS-501 | |
| | | EXPOSED BEDROCK | |
| | | ENLARGEMENT BOX | |
-
- | | | |
|--|---------|------------------------------|
| | + MEX | MEET EXISTING ELEVATION |
| | + HP | HIGH POINT |
| | + LP | LOW POINT |
| | + 600 | PROPOSED ELEVATION |
| | + (600) | EXISTING ELEVATION |
| | + TC | TOP OF CURB |
| | + BC | BOTTOM OF CURB |
| | + TW | TOP OF WALL |
| | + BW | BOTTOM OF WALL |
| | 4.99% | DIRECTION & PERCENT OF SLOPE |
| | 5:1 | H:V SLOPE DESIGNATION |

PARTIAL GRADING PLAN

SCALE = 1"=20'



KEY MAP



SCALE: 1" = 20'

**METROPOLITAN WATER RECLAMATION DISTRICT
OF GREATER CHICAGO**

CONTRACT 14-253-5FR
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

| | | | |
|--------------|----------|--------------|----------|
| Designed by: | LH | Checked by: | LH |
| Drawn by: | LH | Reviewed by: | LH |
| Date: | MAY 2024 | Scale: | AS SHOWN |

LIVING HABITATS

DONOHUE

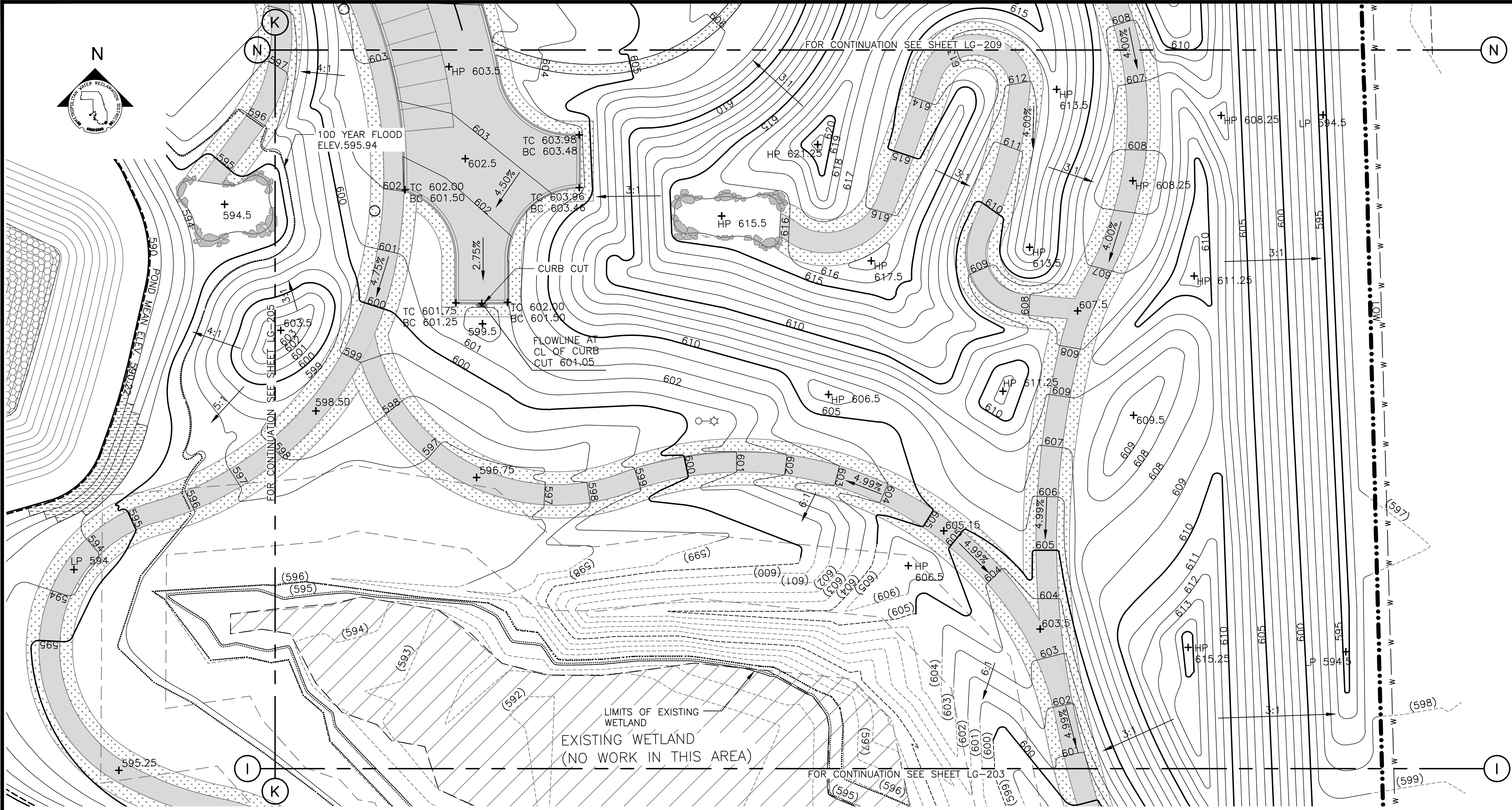
Accurate

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ORRIBEN & ASSOCIATES, INC.
CONSULTING ENGINEERS

| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| 1 | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

P:\16-105_Robbins Park - MWRD\04_CAD\14-253-3F Landscape\Sheets\14-253-BF\LG-206.dwg 1/29/2024 9:49 PM
 PLOT DATE: 8/13/2024 11:39 AM PLOTTED BY: HANNAH CUSICK



GRADING NOTES:

1. REFERENCE NOTES ON GRADING DRAWING LG-101.

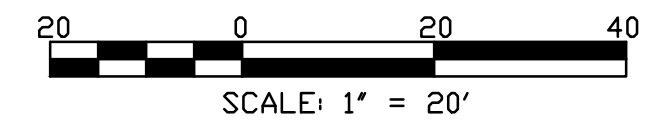
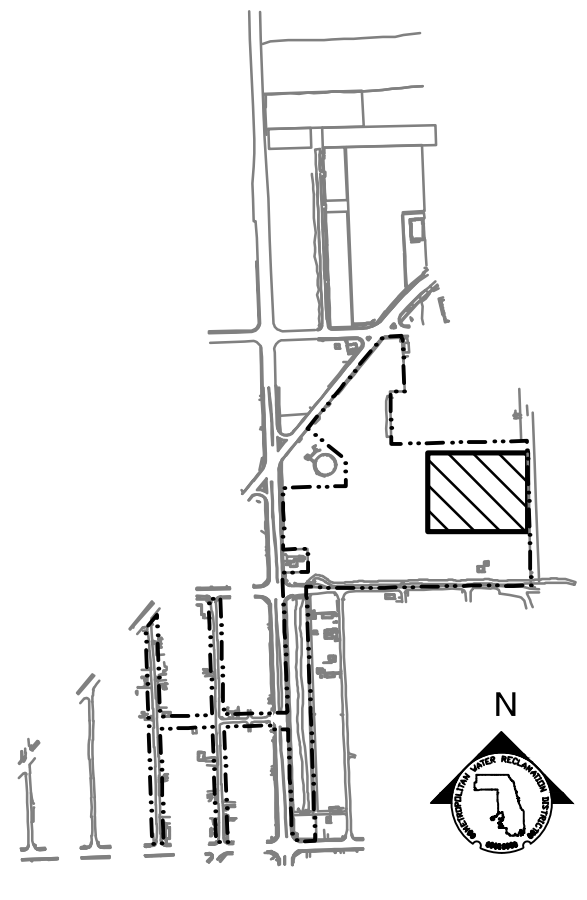
LEGEND:

- L.O.W. LIMIT OF WORK
- WOUS WATERS OF UNITED STATES (WOUS)
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- (600) EXISTING CONTOUR
- 600 PROPOSED CONTOUR
- MOWN TURF PATH/LANDING
- SIDEWALK, SEE LM SERIES FOR MATERIALS/FINISHES
- STONE ARMORING, SEE LM SERIES AND LS-506
- RIP RAP, SEE LM SERIES AND 2/LS-501
- EXPOSED BEDROCK
- ENLARGEMENT BOX

PARTIAL GRADING PLAN

SCALE = 1"=20'

- + MEX MEET EXISTING ELEVATION
- + HP HIGH POINT
- + LP LOW POINT
- + 600 PROPOSED ELEVATION
- + (600) EXISTING ELEVATION
- + TC TOP OF CURB
- + BC BOTTOM OF CURB
- + TW TOP OF WALL
- + BW BOTTOM OF WALL
- 4.99% DIRECTION & PERCENT OF SLOPE
- 5:1 H:V SLOPE DESIGNATION



| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
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METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

Designed by: LH
 Drawn by: LH
 Date: MAY 2024

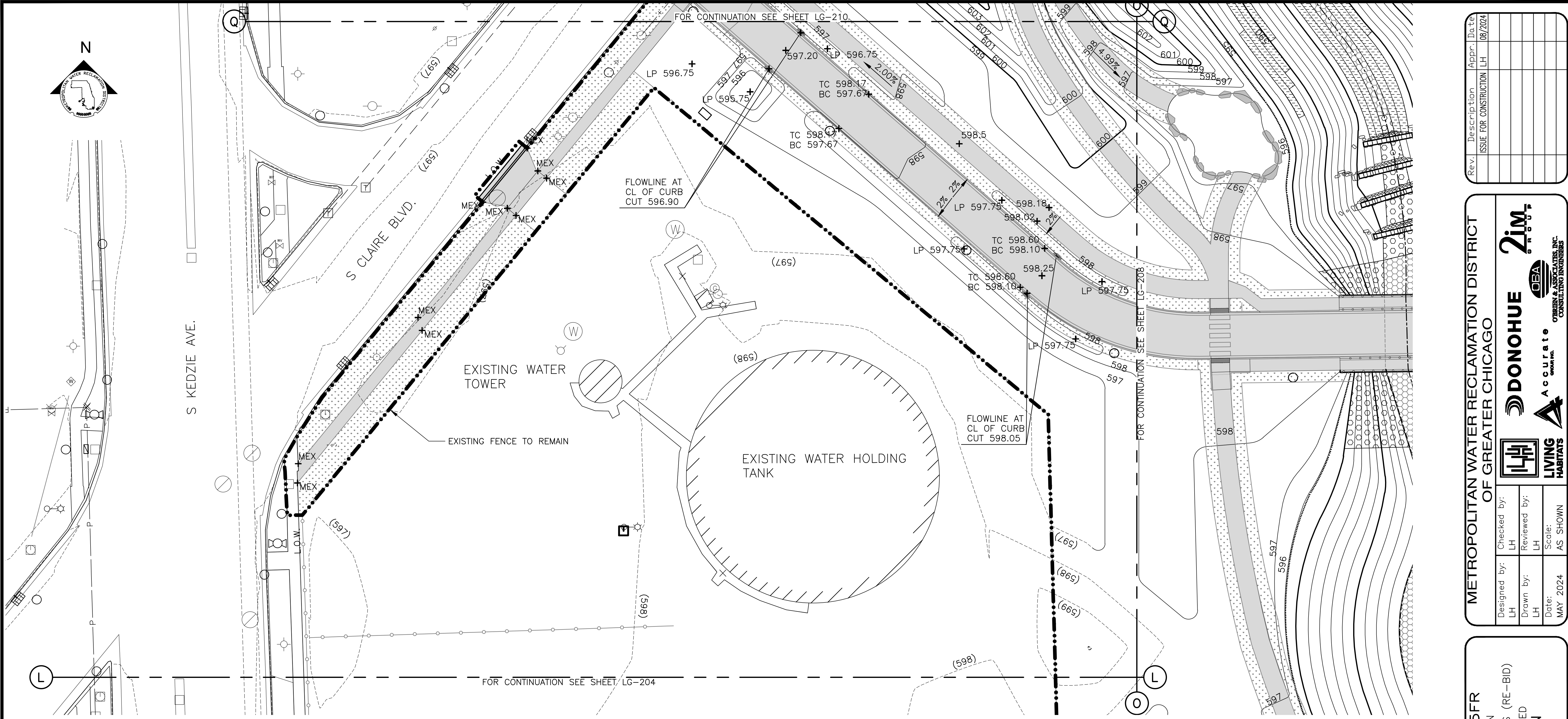
Checked by: LH
 Reviewed by: LH
 Scale: AS SHOWN

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 ENGINEERS

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Sheet Number:
LG-206
 Page Number: 113

PLOT DATE: 8/13/2024 11:40 AM PLOTTED BY: HANNAH CUSICK
 P:\16-105_Robbins Park - MWRD\04_CAD\14-253-3F\landscape\Sheets\14-253-BF\LG-207.dwg 1/17/2024 3:38 PM



GRADING NOTES:

- 1. REFERENCE NOTES ON GRADING DRAWING LG-101.

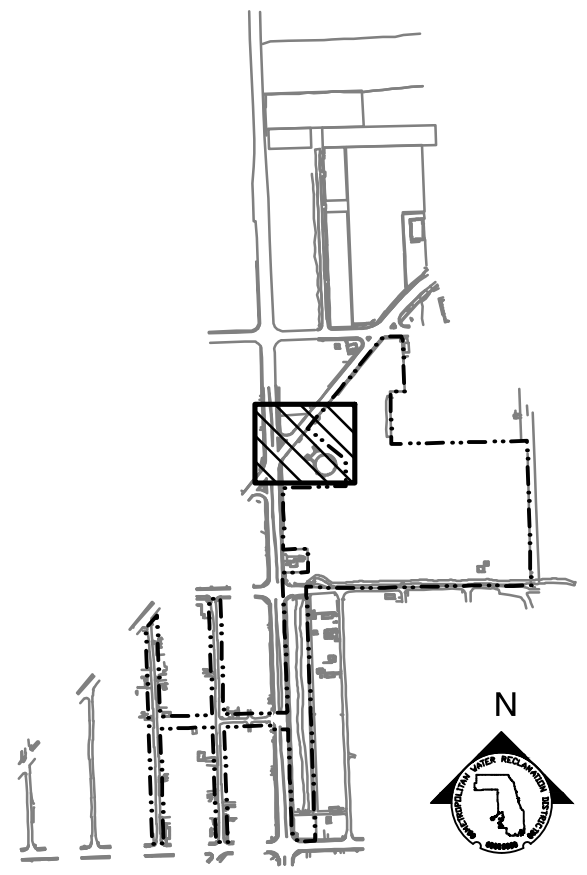
LEGEND:

- L.O.W. LIMIT OF WORK
- WOUS WATERS OF UNITED STATES (WOUS)
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- (600) EXISTING CONTOUR
- 600 PROPOSED CONTOUR
- MOWN TURF PATH/LANDING
- SIDEWALK, SEE LM SERIES FOR MATERIALS/FINISHES
- STONE ARMORING, SEE LM SERIES AND LS-506
- RIP RAP, SEE LM SERIES AND 2/LS-501
- EXPOSED BEDROCK
- ENLARGEMENT BOX

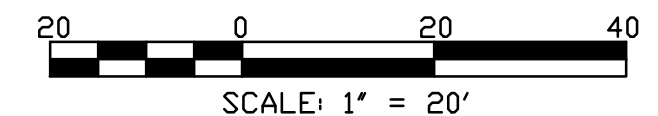
PARTIAL GRADING PLAN

SCALE = 1"=20'

- + MEX MEET EXISTING ELEVATION
- + HP HIGH POINT
- + LP LOW POINT
- + 600 PROPOSED ELEVATION
- + (600) EXISTING ELEVATION
- + TC TOP OF CURB
- + BC BOTTOM OF CURB
- + TW TOP OF WALL
- + BW BOTTOM OF WALL
- 4.99% DIRECTION & PERCENT OF SLOPE
- 5:1 H:V SLOPE DESIGNATION



KEY MAP



SCALE: 1" = 20'

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

Sheet Number:
LG-207
 Page Number: 114

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| Designed by: LH | Checked by: LH |
| Drawn by: LH | Reviewed by: LH |
| Date: MAY 2024 | Scale: AS SHOWN |

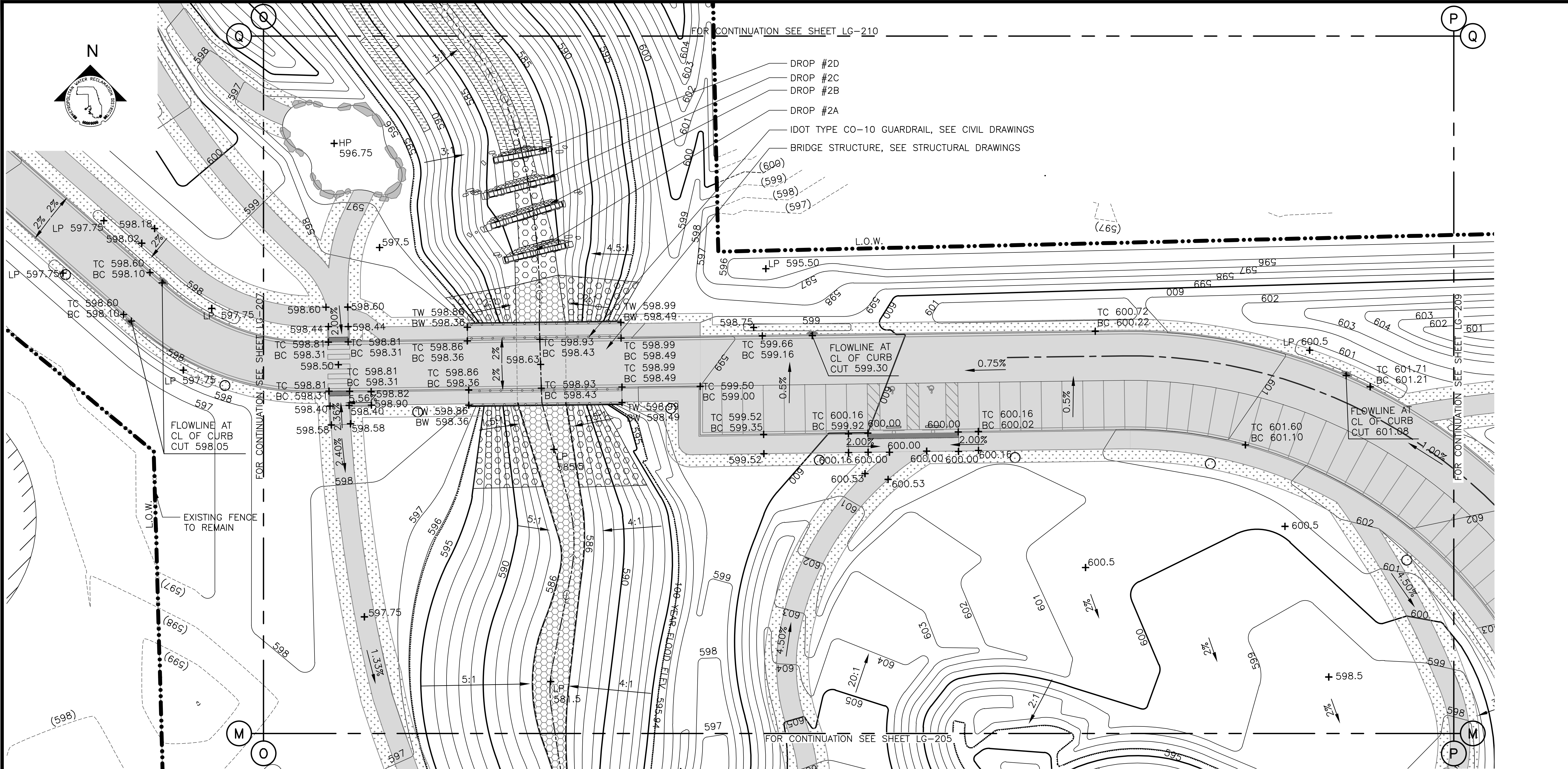
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| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

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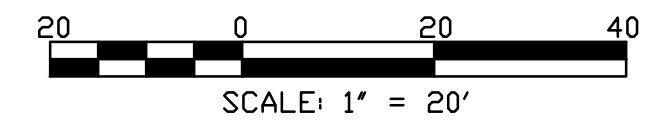
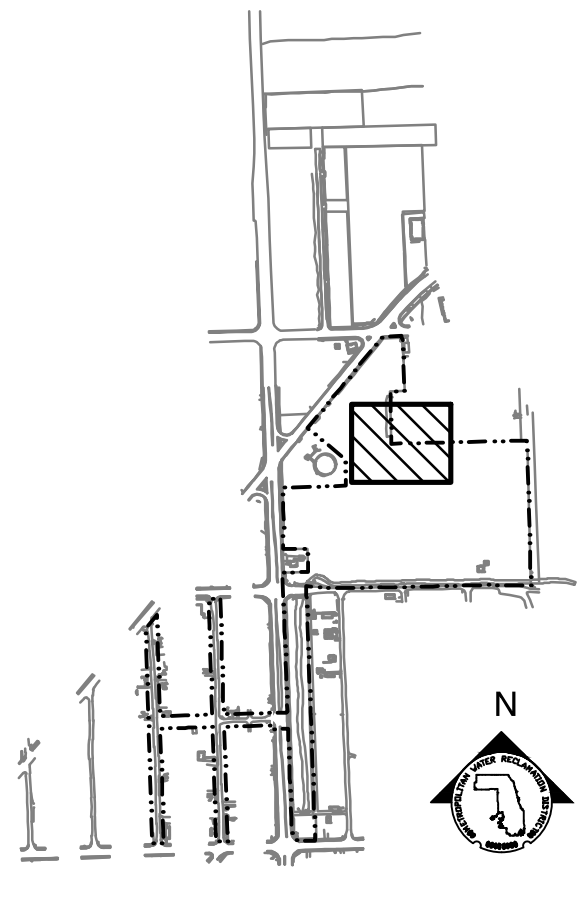
LEGEND:

- L.O.W. --- LIMIT OF WORK
- - - WOUS - - - WATERS OF UNITED STATES (WOUS)
- - - - - CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- (600)--- EXISTING CONTOUR
- 600--- PROPOSED CONTOUR
- [Pattern] MOWN TURF PATH/LANDING
- [Pattern] SIDEWALK, SEE LM SERIES FOR MATERIALS/FINISHES
- [Pattern] STONE ARMORING, SEE LM SERIES AND LS-506
- [Pattern] RIP RAP, SEE LM SERIES AND 2/LS-501
- [Pattern] EXPOSED BEDROCK
- [Pattern] DETECTABLE WARNING PAVEMENT
- [Box] ENLARGEMENT BOX

PARTIAL GRADING PLAN

SCALE = 1"=20'

- + MEX MEET EXISTING ELEVATION
- + HP HIGH POINT
- + LP LOW POINT
- + 600 PROPOSED ELEVATION
- + (600) EXISTING ELEVATION
- + TC TOP OF CURB
- + BC BOTTOM OF CURB
- + TW TOP OF WALL
- + BW BOTTOM OF WALL
- 4.99% DIRECTION & PERCENT OF SLOPE
- 5:1 H:V SLOPE DESIGNATION



- DROP #2D
- DROP #2C
- DROP #2B
- DROP #2A
- IDOT TYPE CO-10 GUARDRAIL, SEE CIVIL DRAWINGS
- BRIDGE STRUCTURE, SEE STRUCTURAL DRAWINGS

| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| 1 | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

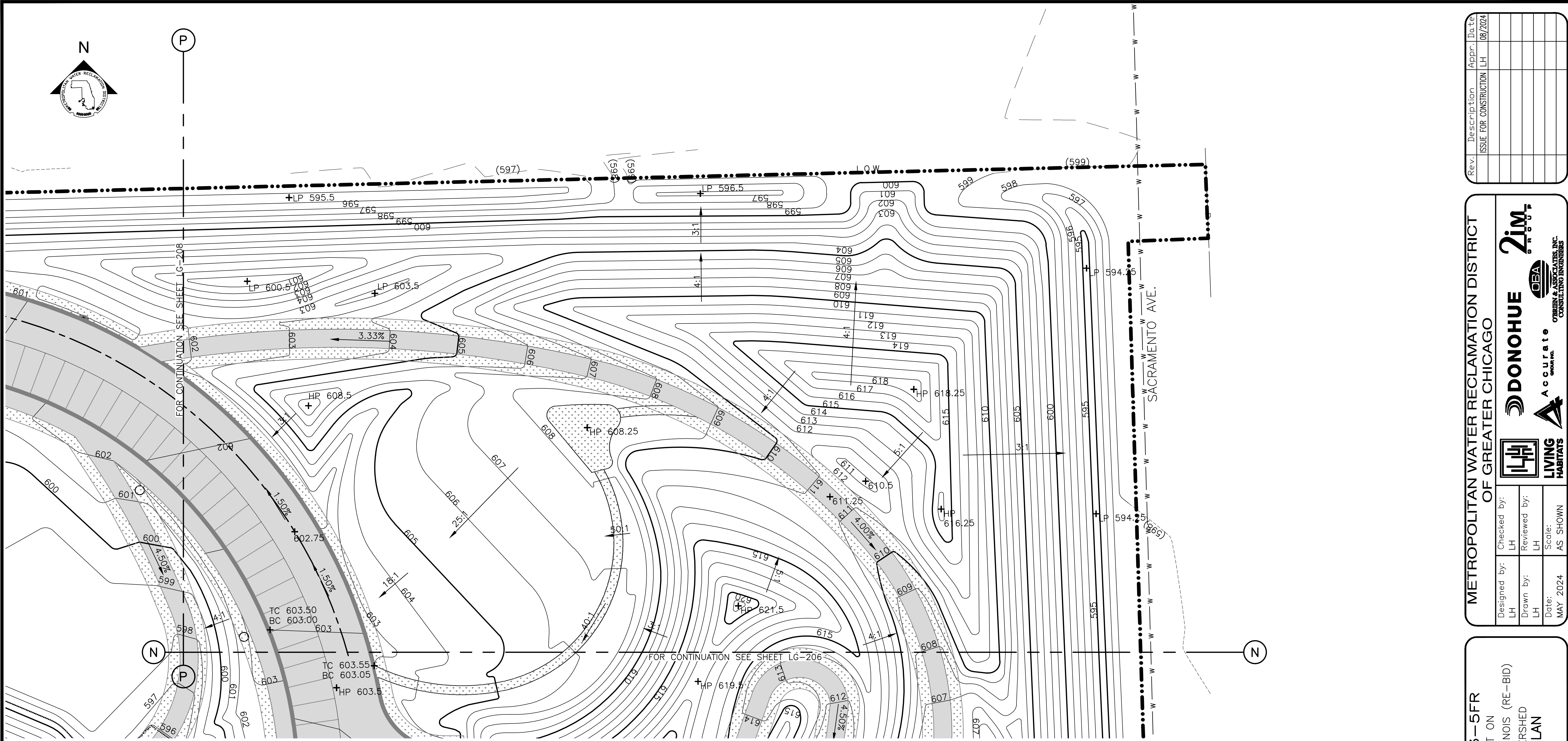
Designed by: LH
 Drawn by: LH
 Date: MAY 2024

Checked by: LH
 Reviewed by: LH
 Scale: AS SHOWN

DONOHUE ACCURATE ENGINEERS
 METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
 CONSULTING ENGINEERS

Sheet Number:
LG-208
 Page Number: 115

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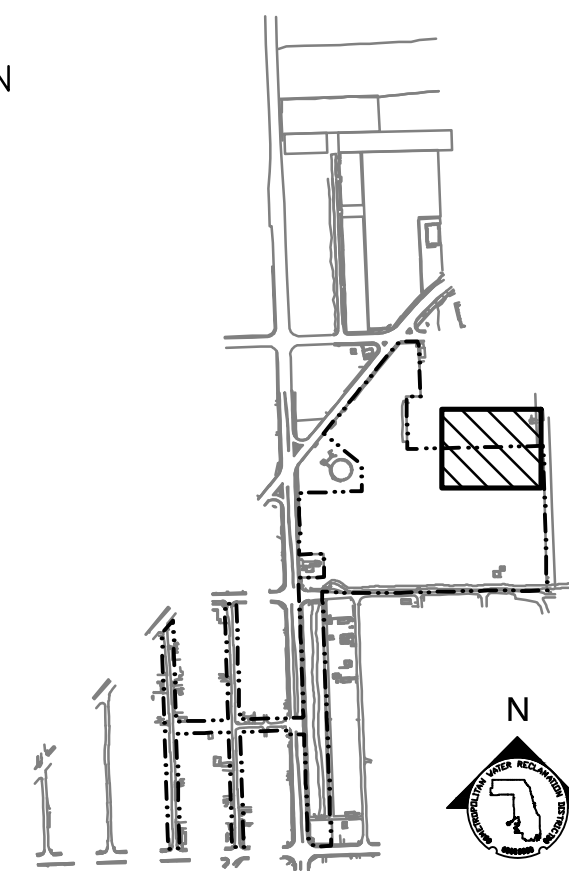
LEGEND:

- L.O.W. LIMIT OF WORK
- WOUS --- WATERS OF UNITED STATES (WOUS)
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- (600) EXISTING CONTOUR
- 600 PROPOSED CONTOUR
- ▨ MOWN TURF PATH/LANDING
- ▨ SIDEWALK, SEE LM SERIES FOR MATERIALS/FINISHES
- ENLARGEMENT BOX

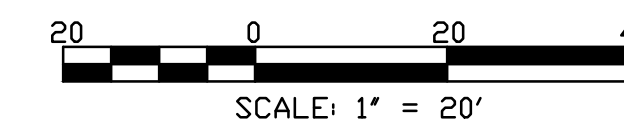
PARTIAL GRADING PLAN

SCALE = 1"=20'

- + MEX MEET EXISTING ELEVATION
- + HP HIGH POINT
- + LP LOW POINT
- + 600 PROPOSED ELEVATION
- + (600) EXISTING ELEVATION
- + TC TOP OF CURB
- + BC BOTTOM OF CURB
- + TW TOP OF WALL
- + BW BOTTOM OF WALL
- 4.99% DIRECTION & PERCENT OF SLOPE
- 5:1 H:V SLOPE DESIGNATION



KEY MAP



METROPOLITAN WATER RECLAMATION DISTRICT
 OF GREATER CHICAGO

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
 PARTIAL GRADING PLAN

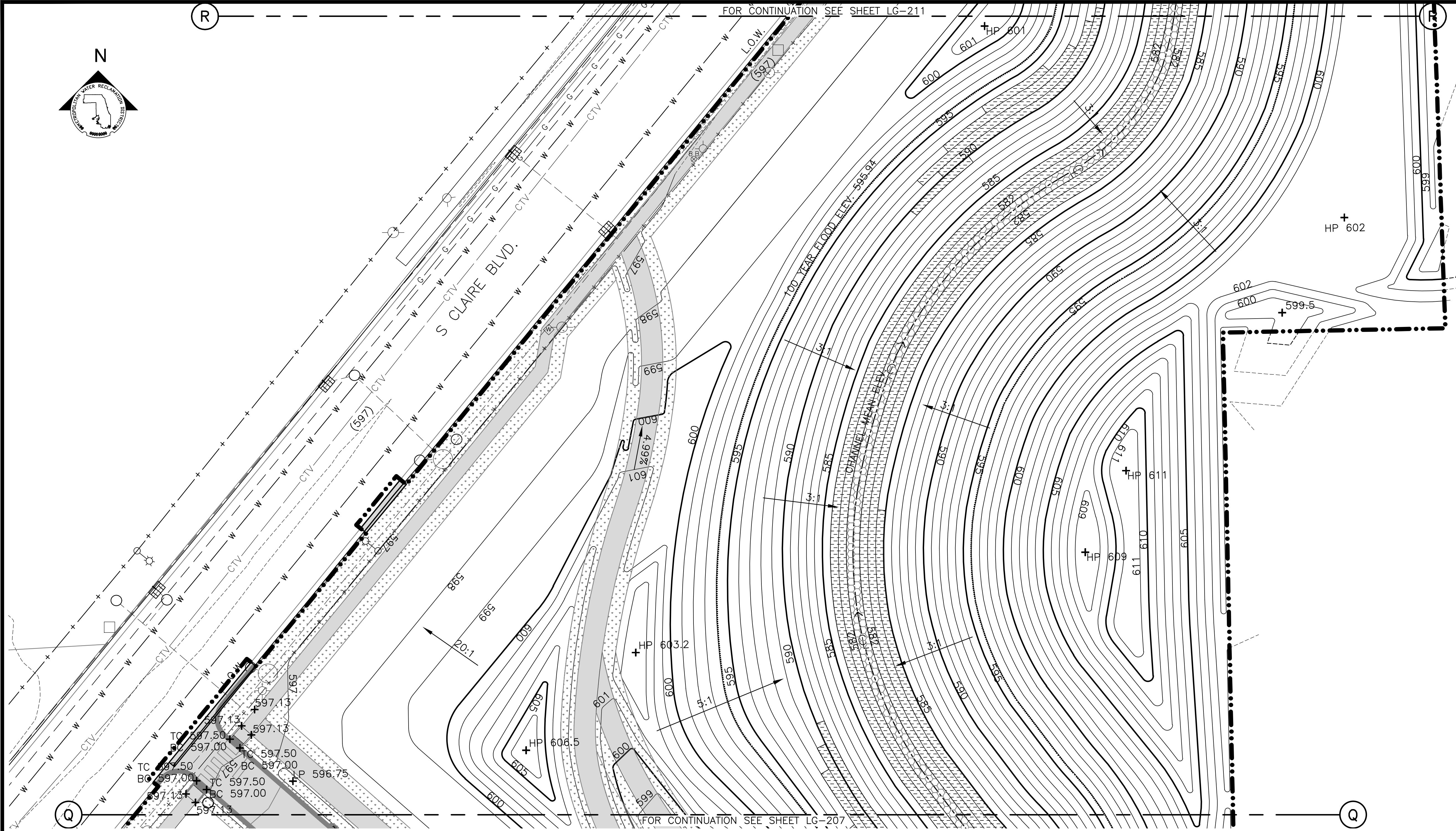
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 DONOHUE
 ENGINEERS
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 METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

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| Designed by: LH | Checked by: LH |
| Drawn by: LH | Reviewed by: LH |
| Date: MAY 2024 | Scale: AS SHOWN |

| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| 1 | ISSUE FOR CONSTRUCTION | LH | 08/2024 |
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Sheet Number:
LG-209
 Page Number: 116

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FOR CONTINUATION SEE SHEET LG-211

FOR CONTINUATION SEE SHEET LG-207

GRADING NOTES:

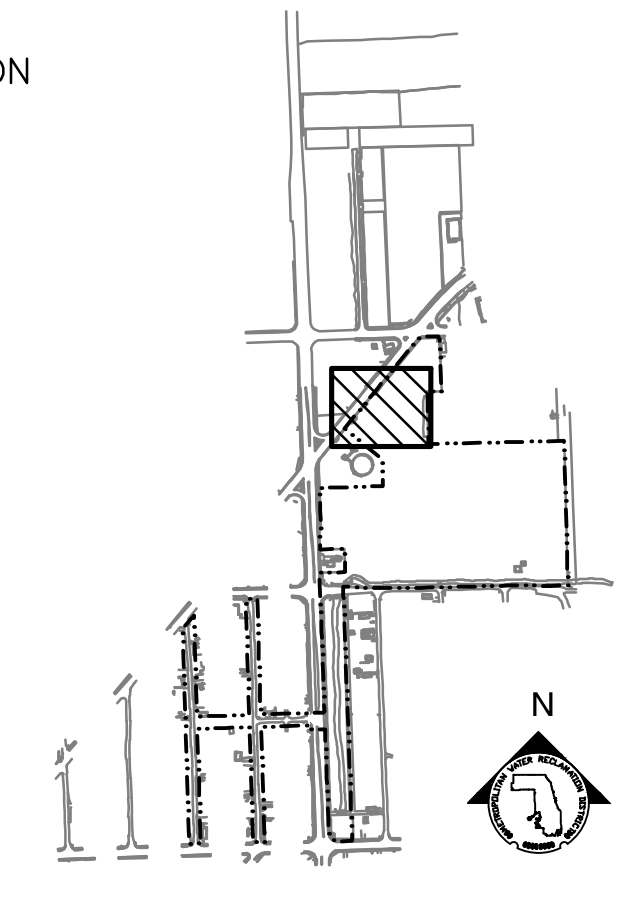
1. REFERENCE NOTES ON GRADING DRAWING LG-101.

PARTIAL GRADING PLAN
SCALE = 1"=20'

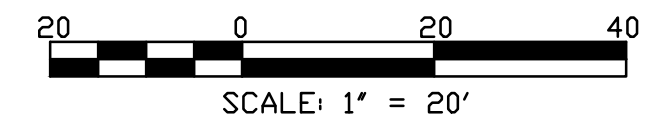
LEGEND:

- L.O.W. LIMIT OF WORK
- WOUS WATERS OF UNITED STATES (WOUS)
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- (600) EXISTING CONTOUR
- 600 PROPOSED CONTOUR
- MOWN TURF PATH/LANDING
- SIDEWALK, SEE LM SERIES FOR MATERIALS/FINISHES
- STONE ARMORING, SEE LM SERIES AND LS-506
- EXPOSED BEDROCK
- ENLARGEMENT BOX

- + MEX MEET EXISTING ELEVATION
- + HP HIGH POINT
- + LP LOW POINT
- + 600 PROPOSED ELEVATION
- + (600) EXISTING ELEVATION
- + TC TOP OF CURB
- + BC BOTTOM OF CURB
- + TW TOP OF WALL
- + BW BOTTOM OF WALL
- 4.99% DIRECTION & PERCENT OF SLOPE
- 5:1 H:V SLOPE DESIGNATION



KEY MAP



SCALE: 1" = 20'

| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5FR
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

Designed by: LH
Checked by: LH
Drawn by: LH
Reviewed by: LH
Date: MAY 2024
Scale: AS SHOWN

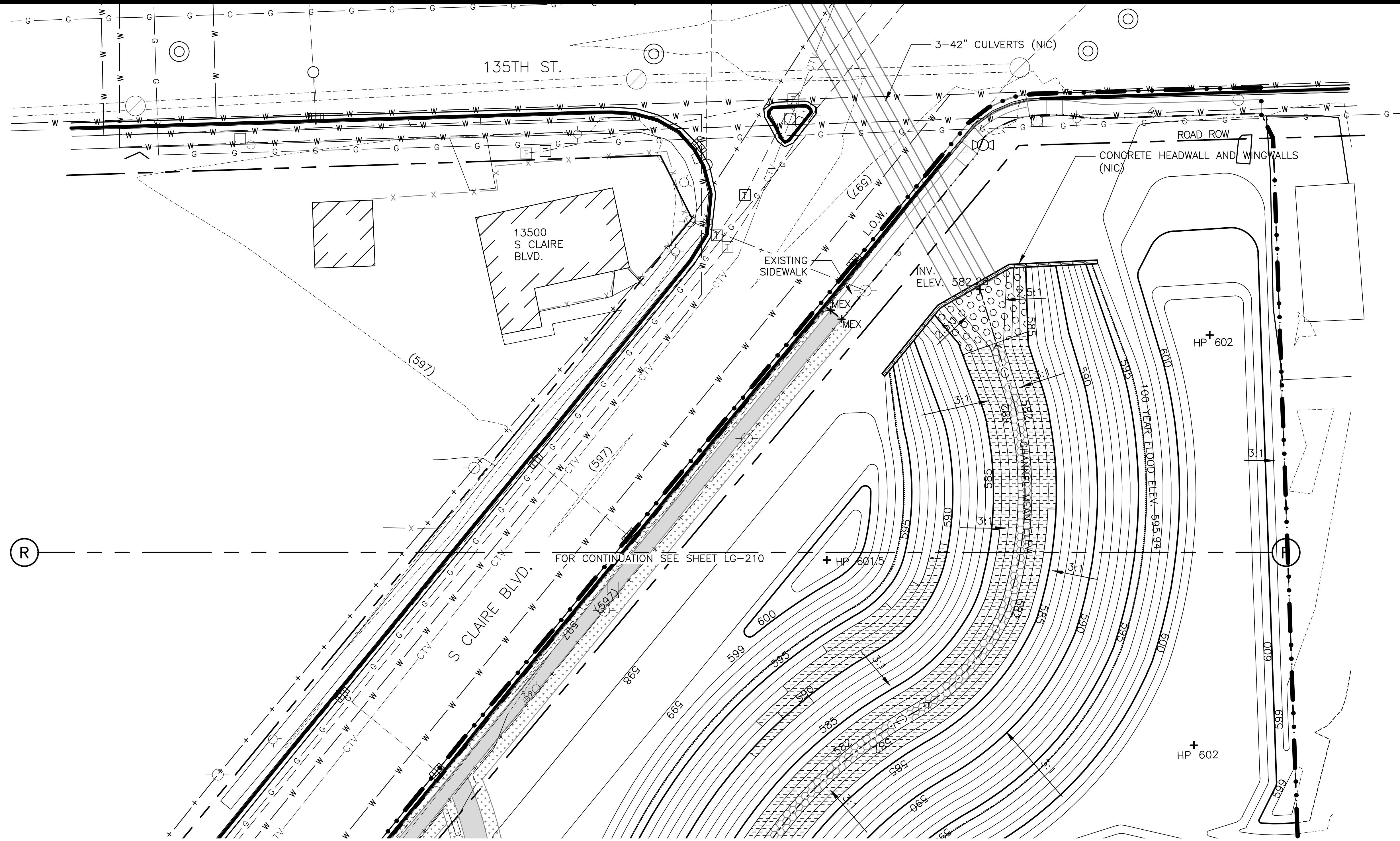
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O'Brien & Associates, Inc.
Consulting Engineers

LIVING HABITATS

Sheet Number:
LG-210
Page Number: 117

Sheet Number:
LG-210
Page Number: 117

PLOT DATE: 8/13/2024 11:43 AM PLOTTED BY: HANNAH CUSICK
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GRADING NOTES:

1. REFERENCE NOTES ON GRADING DRAWING LG-101.

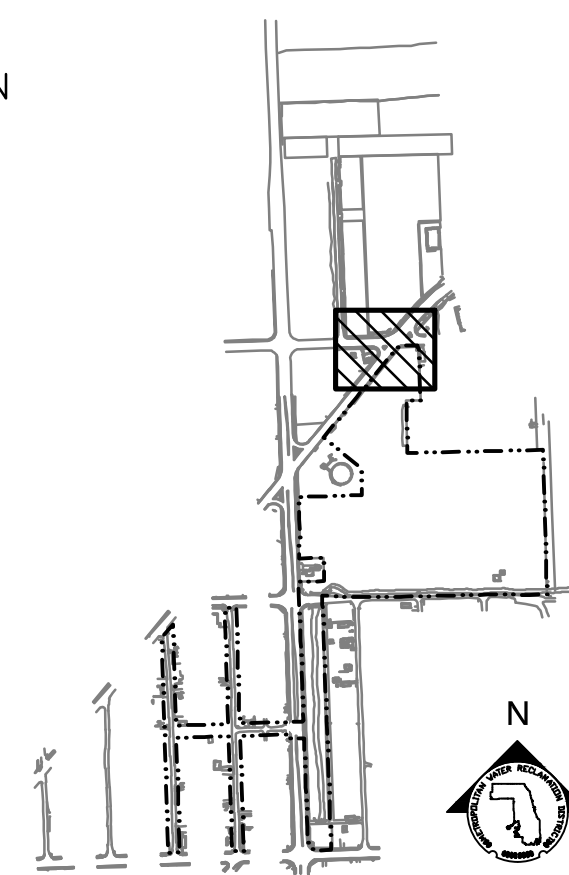
LEGEND:

- L.O.W. --- LIMIT OF WORK
- WOUS --- WATERS OF UNITED STATES (WOUS)
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- (600) --- EXISTING CONTOUR
- 600 --- PROPOSED CONTOUR
- [Pattern] MOWN TURF PATH/LANDING
- [Pattern] SIDEWALK, SEE LM SERIES FOR MATERIALS/FINISHES
- [Pattern] GUARDRAIL
- [Pattern] STONE ARMORING, SEE LM SERIES AND LS-506
- [Pattern] RIP RAP, SEE LM SERIES AND 2/LS-501
- [Pattern] EXPOSED BEDROCK
- [Box] ENLARGEMENT BOX

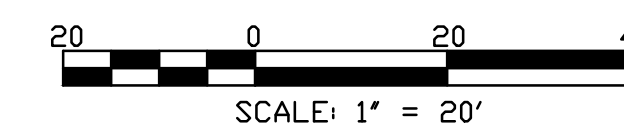
PARTIAL GRADING PLAN

SCALE = 1"=20'

- + MEX MEET EXISTING ELEVATION
- + HP HIGH POINT
- + LP LOW POINT
- + 600 PROPOSED ELEVATION
- + (600) EXISTING ELEVATION
- + TC TOP OF CURB
- + BC BOTTOM OF CURB
- + TW TOP OF WALL
- + BW BOTTOM OF WALL
- 4.99% DIRECTION & PERCENT OF SLOPE
- 5:1 H:V SLOPE DESIGNATION



KEY MAP



**METROPOLITAN WATER RECLAMATION DISTRICT
 OF GREATER CHICAGO**

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

Sheet Number:
LG-211
 Page Number: 118

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|--------------------|--------------------|-----------------|-------------------|
| Designed by: LH | Checked by: LH | Drawn by: LH | Date: MAY 2024 |
| Reviewed by: LH | Scale: AS SHOWN | | |

Accurate
 CONSULTING ENGINEERS

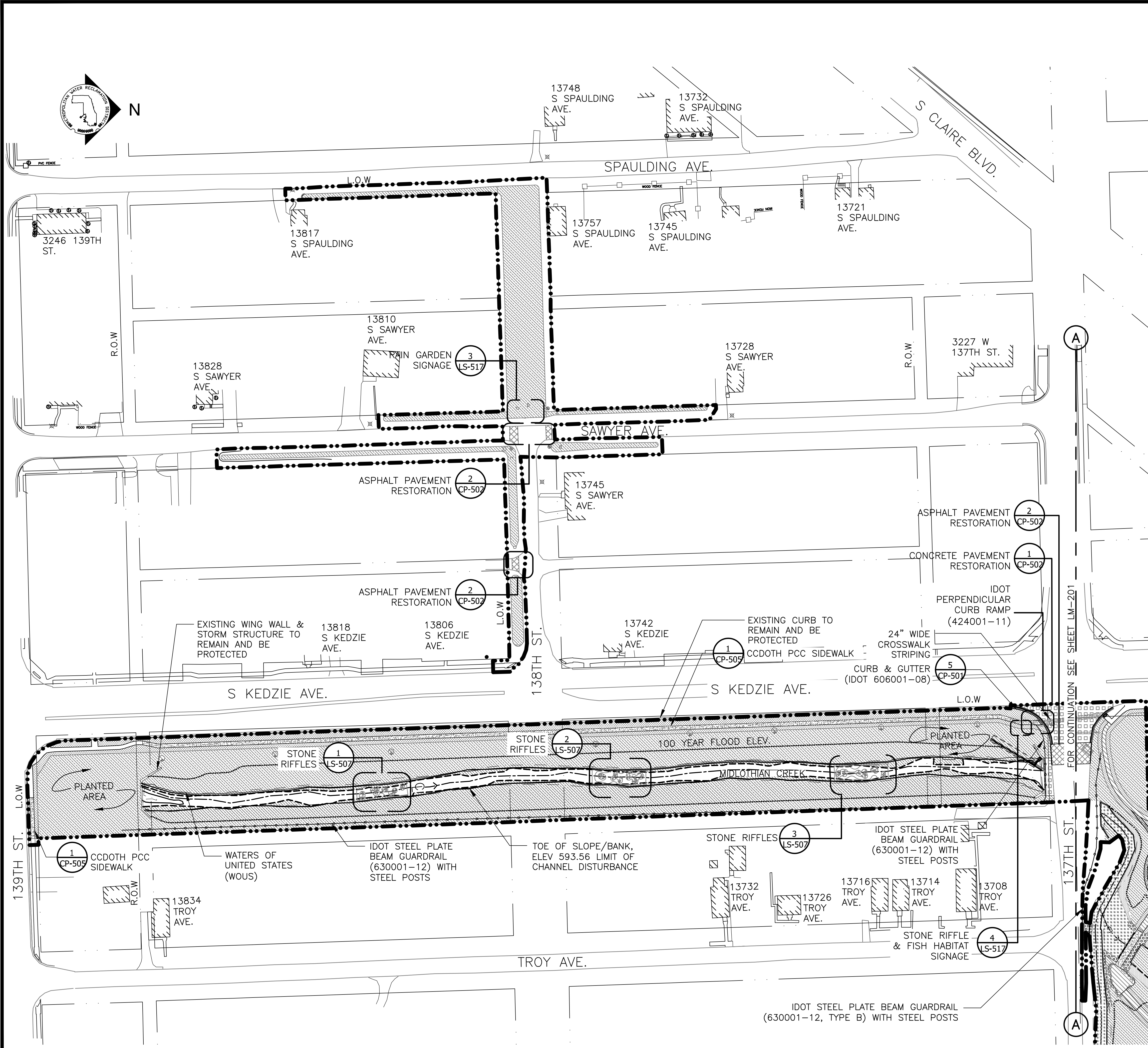
DONOHUE
 ENGINEERS & ARCHITECTS, INC.

ZIM
 CONSULTING ENGINEERS

LIVING HABITATS

| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| | ISSUE FOR CONSTRUCTION | LH | 08/2024 |
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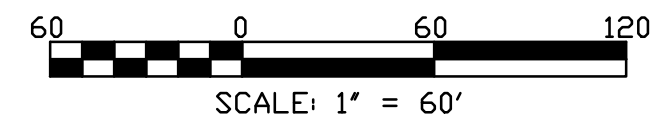
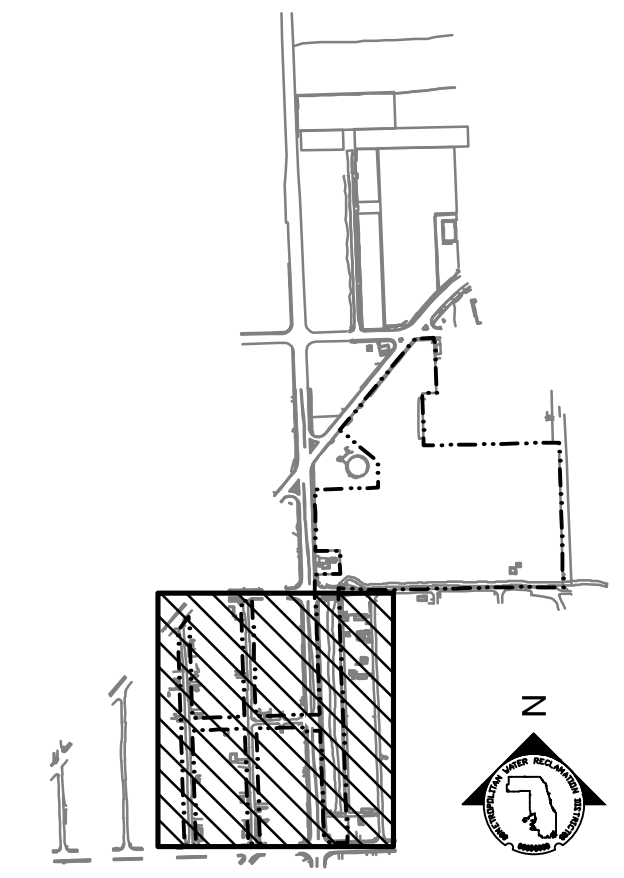


MATERIAL NOTES:

1. THE ENGINEER MAY MAKE REASONABLE ADJUSTMENTS TO THE LAYOUT WITHOUT INCURRING ADDITIONAL COSTS TO THE PROJECT. THE CONTRACTOR SHALL STAKE OUT PROPOSED TREE LOCATIONS TO AID IN THE REVIEW OF THE FINAL LAYOUT OF SITE ELEMENTS.
2. THE CONTRACTOR SHALL REFER ANY QUESTIONS REGARDING MATERIALS, FINISHES, LABOR AND/OR PRODUCTS NOT SPECIFIED HEREIN TO THE ENGINEER PRIOR TO ORDERING MATERIALS OR STARTING WORK.
3. LOCATIONS OF ALL SITE FURNISHINGS, WAYFINDING AND TRAFFIC SIGNAGE TO BE APPROVED BY PROJECT ENGINEER PRIOR TO INSTALLATION.
4. FIELD MEASUREMENTS: CONTRACTOR SHALL TAKE ACCURATE FIELD MEASUREMENTS BEFORE PREPARATION OF SHOP DRAWINGS AND FABRICATION. DO NOT DELAY JOB PROGRESS.

LEGEND:

- L.O.W. --- LIMIT OF WORK
- WOUS --- WATERS OF UNITED STATES
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- [Pattern] CIP CONCRETE PAVEMENT- PEDESTRIAN
- [Pattern] CIP CONCRETE PAVEMENT - VEHICULAR
- [Pattern] MOWN TURF
- [Pattern] PLANTED AREA, REFERENCE LP-SERIES
- [Pattern] ASPHALT PAVEMENT - PEDESTRIAN
- [Pattern] ASPHALT PAVEMENT - VEHICULAR
- [Pattern] CURB AND GUTTER
- [Symbol] STONE RIFFLES
- [Symbol] ENLARGEMENT BOX
- [Symbol] CHANNEL CENTER LINE & DIRECTION OF FLOW



| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| 1 | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
PARTIAL MATERIALS AND FINISHES PLAN

Designed by: LH
 Checked by: LH
 Drawn by: LH
 Reviewed by: LH
 Date: MAY 2024
 Scale: AS SHOWN

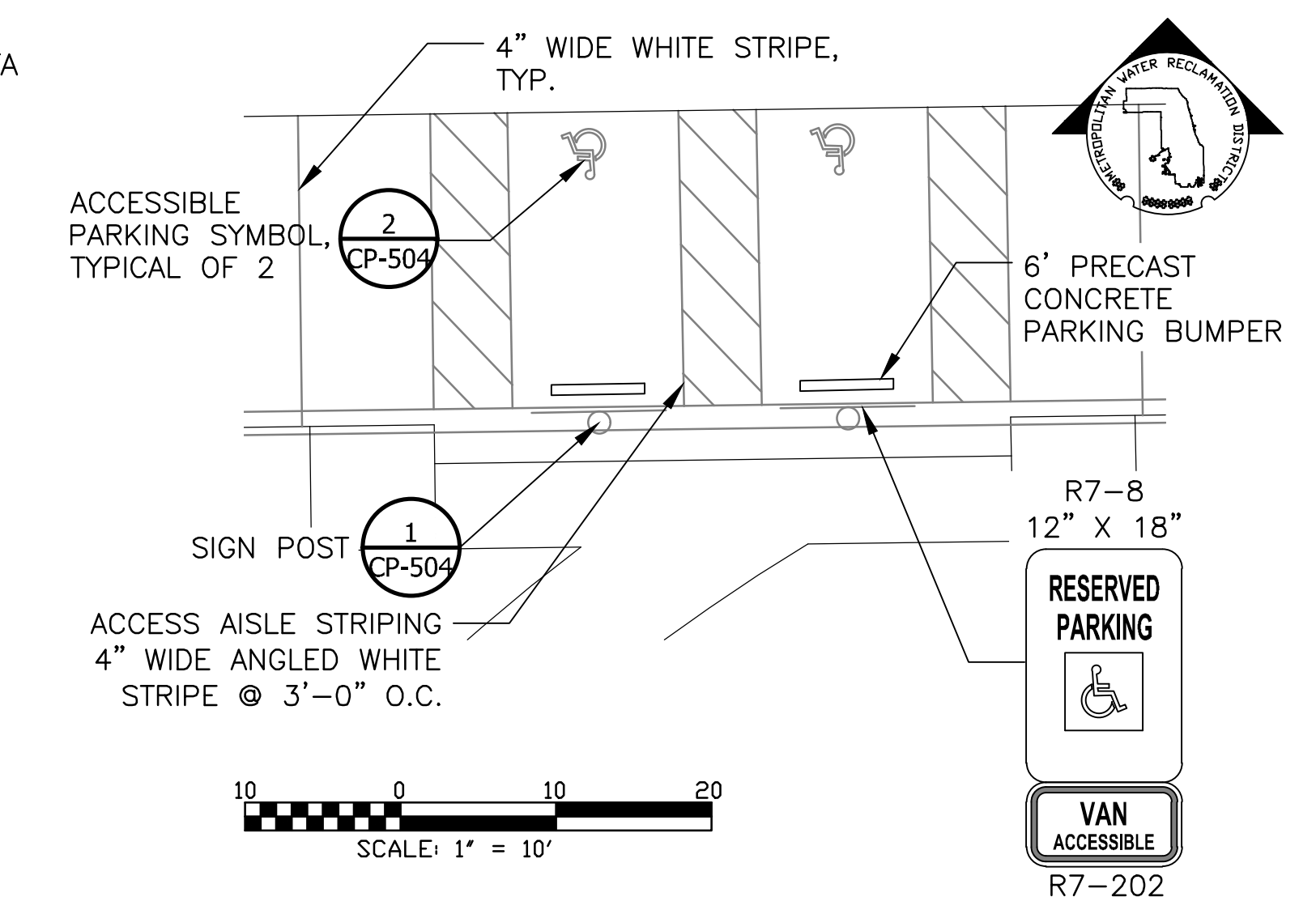
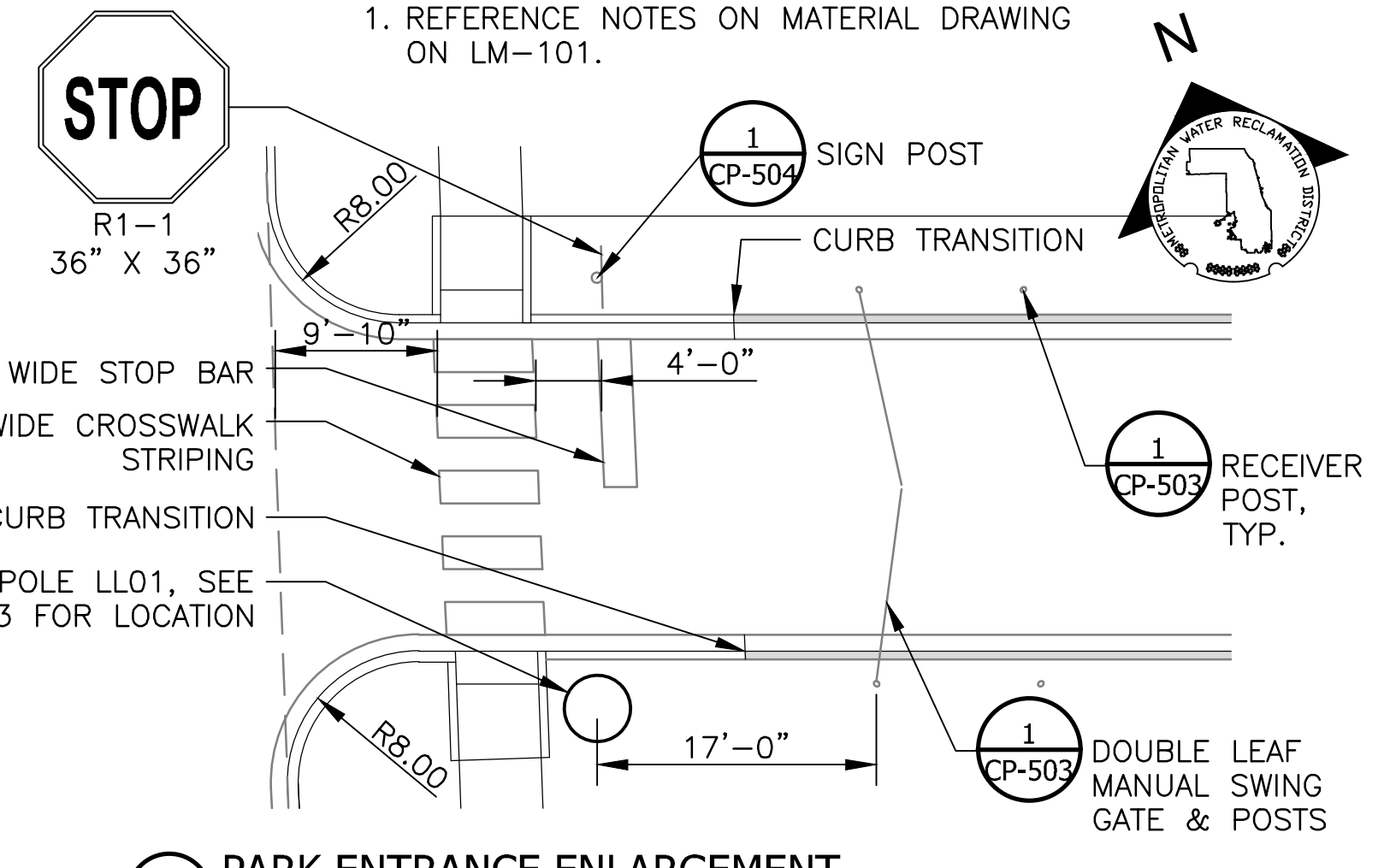
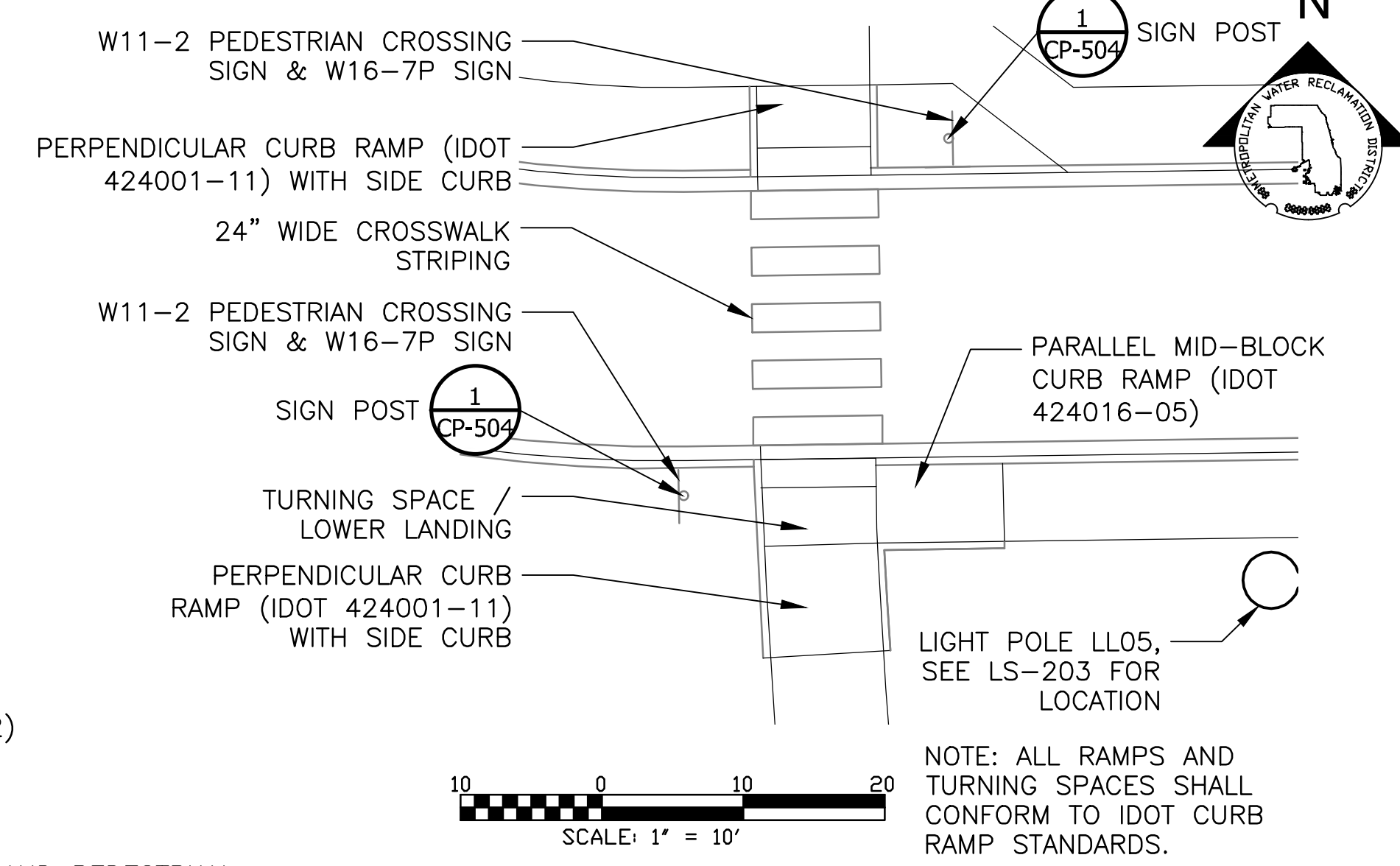
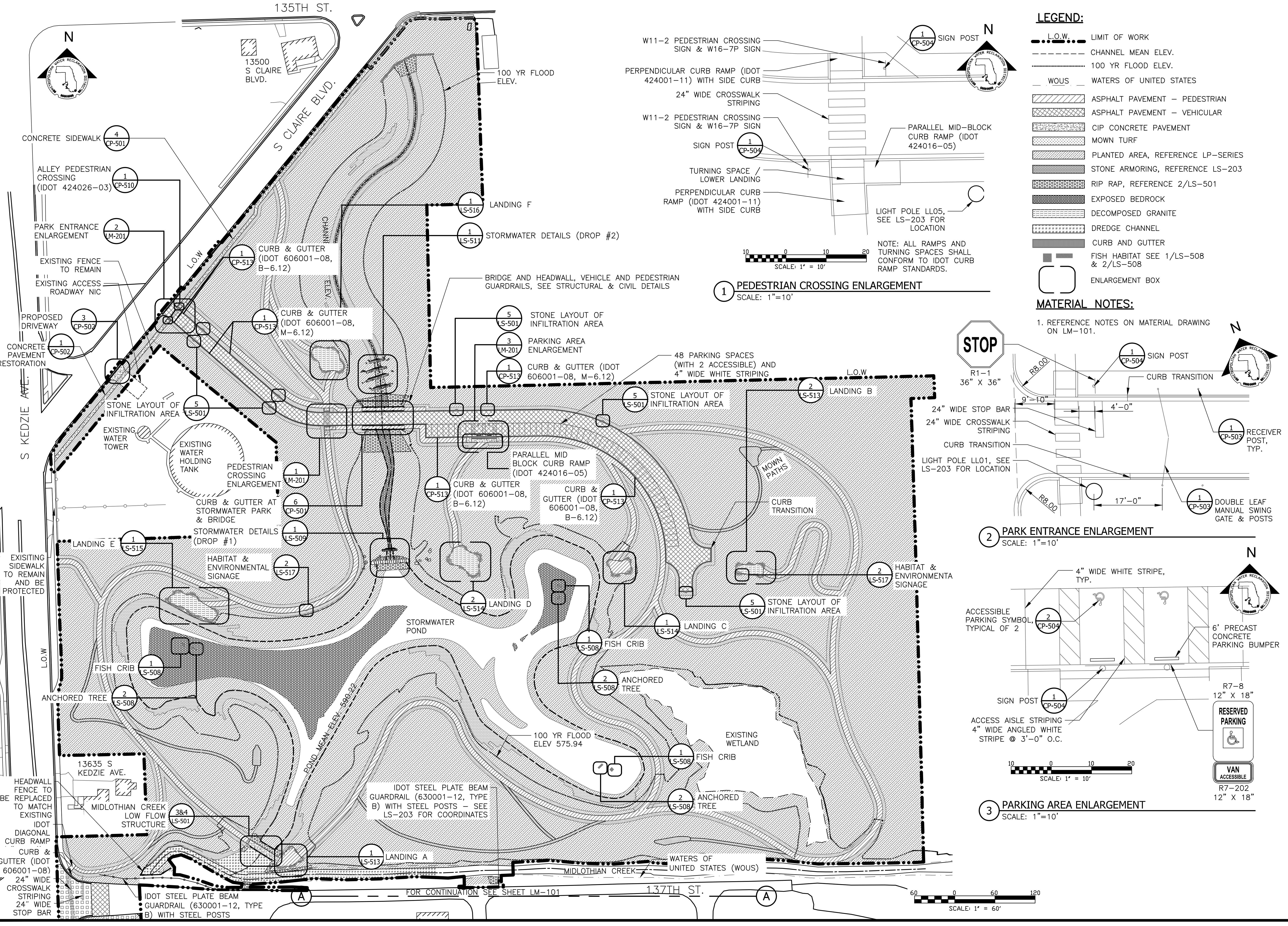
DONOHUE
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Accurate
 CONSULTING ENGINEERS

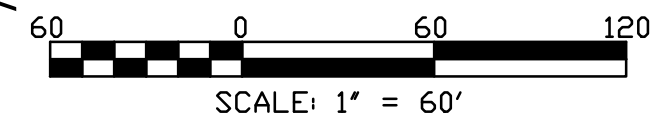
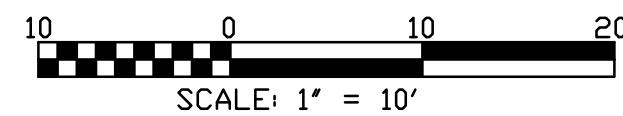
LIVING HABITATS

Sheet Number:
LM-101
 Page Number: 119

PLOT DATE: 8/13/2024 11:44 AM PLOTTED BY: HANNAH CUSICK
P:\16-105_Robbins Park - MWRD\04_CAD\14-253-BF\LM-201.dwg 4/25/2024 2:41 PM



- LEGEND:**
- L.O.W. LIMIT OF WORK
 - CHANNEL MEAN ELEV.
 - 100 YR FLOOD ELEV.
 - W.O.U.S. WATERS OF UNITED STATES
 - ASPHALT PAVEMENT - PEDESTRIAN
 - ASPHALT PAVEMENT - VEHICULAR
 - CIP CONCRETE PAVEMENT
 - MOWN TURF
 - PLANTED AREA, REFERENCE LP-SERIES
 - STONE ARMORING, REFERENCE LS-203
 - RIP RAP, REFERENCE 2/LS-501
 - EXPOSED BEDROCK
 - DECOMPOSED GRANITE
 - DREDGE CHANNEL
 - CURB AND GUTTER
 - FISH HABITAT SEE 1/LS-508 & 2/LS-508
 - ENLARGEMENT BOX
- MATERIAL NOTES:**
- REFERENCE NOTES ON MATERIAL DRAWING ON LM-101.



| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| 01 | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

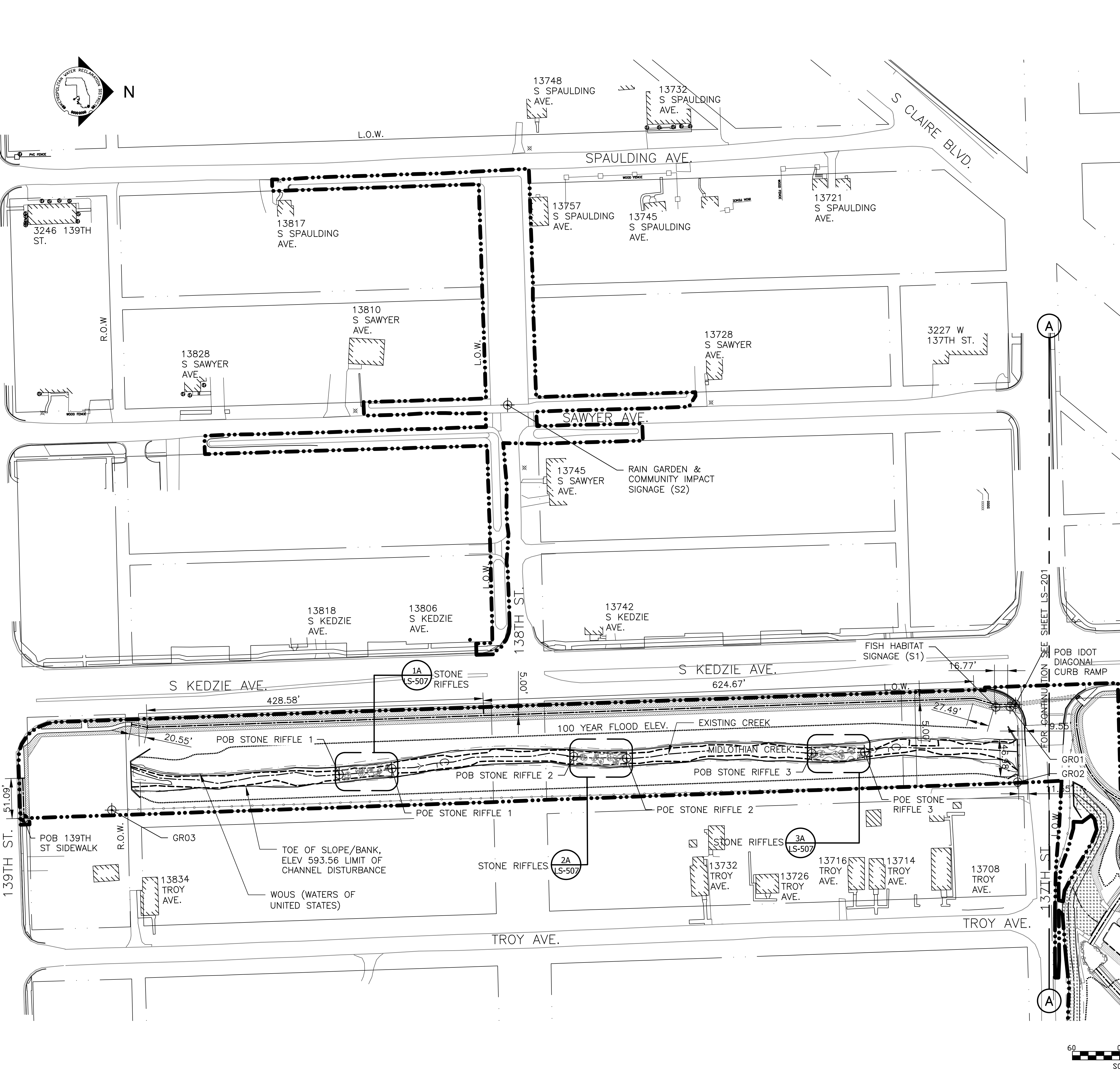
CONTRACT 14-253-5FR
FLOOD CONTROL PROJECT ON MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
LITTLE CALUMET RIVER WATERSHED
PARTIAL MATERIALS AND FINISHES PLAN

DESIGNED BY: LH
DRAWN BY: LH
CHECKED BY: LH
REVIEWED BY: LH
DATE: MAY 2024
SCALE: AS SHOWN

DONOHUE
ACCURATE
LIVING HABITATS

ZIM
ZIMMERMANN & ASSOCIATES, INC.
CONSULTING ENGINEERS

Sheet Number:
LM-201
Page Number: 120



LAYOUT NOTES:

1. USE DIMENSIONAL INFORMATION GIVEN. DIMENSIONS AND COORDINATES TAKE PRECEDENCE OVER SCALE. DIRECT QUESTIONS ABOUT DIMENSIONS TO THE ENGINEER IN WRITING.
2. ALL LINES AND DIMENSIONS ARE TANGENT, PARALLEL, OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS NOTED OTHERWISE.
3. IN AREAS WHERE A NUMERIC DIMENSION AND A PAVEMENT COURSING WIDTH ARE BOTH SPECIFIED, COURSING DIMENSION TAKES PRECEDENCE UNLESS NOTED OTHERWISE.
4. PRIOR TO FINAL LAYOUT THE CONTRACTOR SHALL VERIFY PROPOSED OVERALL DIMENSION AND ELEVATIONS OF SITE IMPROVEMENTS IN RELATION TO WHAT IS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO ENGINEER IN WRITING.
5. THE CONTRACTOR SHALL SUBMIT A SCHEDULE TO ENGINEER FOR THE SEQUENCING OF LAYOUT. THE PROPOSED SEQUENCING SCHEDULE IS SUBJECT TO APPROVAL BY THE ENGINEER BEFORE THE WORK SHALL COMMENCE.
6. FOR EACH AREA IN THE LAYOUT SEQUENCING, THE CONTRACTOR SHALL LAYOUT THE PROPOSED IMPROVEMENTS OF THAT AREA AND OBTAIN THE APPROVAL OF THE FINAL LAYOUT FROM THE ENGINEER PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR MAY NOT PROCEED WITH THE LAYOUT OF THE NEXT AREA UNTIL THE LAYOUT OF THE PREVIOUS AREA IS VERIFIED BY THE ENGINEER AS HAVING ACHIEVED ITS INTENDED RELATIONSHIP TO THE LAYOUT OF THE NEXT AREA. THE ENGINEER MAY MAKE REASONABLE ADJUSTMENTS TO THE LAYOUT WITHOUT INCURRING ADDITIONAL COSTS TO THE PROJECT. THE CONTRACTOR SHALL STAKE OUT PROPOSED TREE LOCATIONS TO AID IN THE REVIEW OF THE FINAL LAYOUT OF SITE ELEMENTS.
7. THE CONTRACTOR SHALL REFER ANY QUESTIONS REGARDING MATERIALS, FINISHES, LABOR AND/OR PRODUCTS NOT SPECIFIED HEREIN TO THE ENGINEER PRIOR TO ORDERING MATERIALS OR STARTING WORK.
8. FIELD MEASUREMENTS: CONTRACTOR SHALL TAKE ACCURATE FIELD MEASUREMENTS BEFORE PREPARATION OF SHOP DRAWINGS AND FABRICATION.
9. FOR PAVING & MATERIAL LAYOUT INFORMATION, SEE LM-101 SERIES.
10. COORDINATE SYSTEM AND ORIGIN BASED ON TOPOGRAPHIC SURVEY PERFORMED FOR THE PROJECT. COORDINATE DATA IS TIED TO THE IL STATE PLANE EAST NAD83 FT PLANE COORDINATE SYSTEM HORIZONTALLY AND NAVD88 VERTICALLY.
11. MOWN PATH LAYOUT AND EXTENTS TO BE REVIEWED AND APPROVED BY VILLAGE OF ROBBINS FOLLOWING ESTABLISHMENT OF LAWN AREAS.

LEGEND:

- L.O.W. --- LIMIT OF WORK
- WOUS --- WATERS OF UNITED STATES
- CHANNEL CENTER LINE & DIRECTION OF FLOW ---
- CHANNEL MEAN ELEV. ---
- 100 YR FLOOD ELEV. ---
- PATH CENTER LINE ---
- POB ● POINT OF BEGINNING
- POE ⊕ POINT OF ENDING
- ⊕ END OF CURVE
- PCC POINT OF COMPOUND CURVATURE
- PC POINT OF CURVATURE
- PT POINT OF TANGENCY
- PRC POINT OF REVERSE CURVATURE
- N: NORTHING COORDINATE
- E: EASTING COORDINATE
- GRXX GUARDRAIL COORDINATE
- ENLARGEMENT BOX

GUARDRAIL

| | NORTHING | EASTING |
|------|------------|------------|
| GR01 | 1813529.89 | 1157685.65 |
| GR02 | 1813539.50 | 1157781.32 |
| GR03 | 1812386.75 | 1157816.91 |

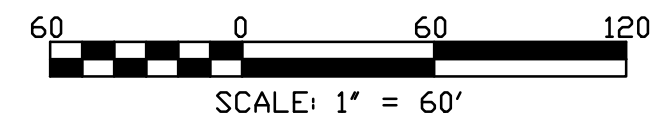
SIGNAGE

| | NORTHING | EASTING |
|----|------------|------------|
| S1 | 1813511.74 | 1157686.09 |
| S2 | 1812890.32 | 1157301.34 |

MIDLOTHIAN CREEK STONE RIFFLES

| | NORTHING | EASTING |
|--------------------|------------|------------|
| POB STONE RIFFLE 1 | 1812676.19 | 1157771.71 |
| POE STONE RIFFLE 1 | 1812742.96 | 1157764.05 |
| POB STONE RIFFLE 2 | 1812974.53 | 1157748.77 |
| POE STONE RIFFLE 2 | 1813041.73 | 1157751.18 |
| POB STONE RIFFLE 3 | 1813277.43 | 1157744.79 |
| POE STONE RIFFLE 3 | 1813344.63 | 1157743.27 |

| | NORTHING | EASTING |
|-----------------------------|------------|------------|
| POB 139TH ST SIDEWALK | 1812274.81 | 1157827.38 |
| POB IDOT DIAGONAL CURB RAMP | 1813536.95 | 1157682.40 |



| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| 1 | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

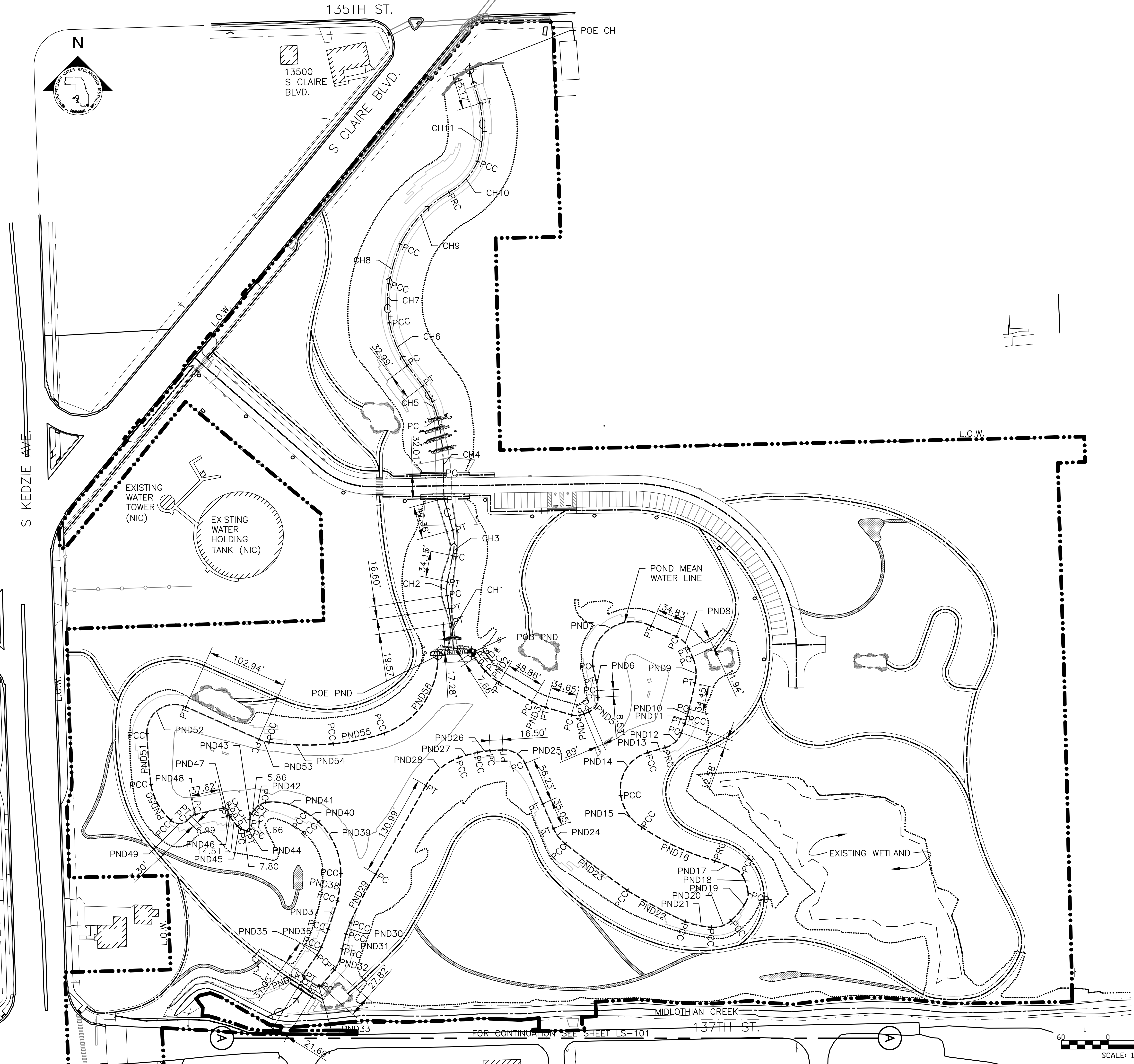
METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
 LAYOUT PLAN

| | |
|--------------|--------------|
| Designed by: | Checked by: |
| LH | LH |
| Drawn by: | Reviewed by: |
| LH | LH |
| Date: | Scale: |
| MAY 2024 | AS SHOWN |

SHEET NUMBER: **LS-101**
 PAGE NUMBER: 121

PLOT DATE: 8/13/2024 11:46 AM PLOTTED BY: HANNAH CUSICK
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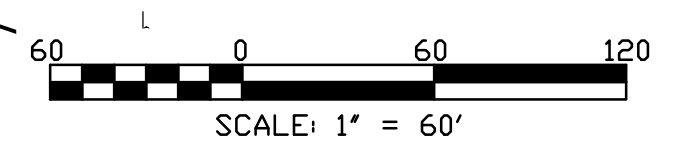


LEGEND:

- L.O.W. --- LIMIT OF WORK
- R.O.W. --- RIGHT OF WAY
- CHANNEL CENTER LINE & DIRECTION OF FLOW
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- PATH CENTER LINE
- MOWN TURF PATHS CENTER LINE
- POB ⊕ POINT OF BEGINNING
- POE ⊕ POINT OF ENDING
- ⊕ END OF CURVE
- PCC POINT OF COMPOUND CURVATURE
- PC POINT OF CURVATURE
- PT POINT OF TANGENCY
- PRC POINT OF REVERSE CURVATURE
- N: NORTHING COORDINATE
- E: EASTING COORDINATE
- PND POND EDGE
- CH CHANNEL CENTER LINE

LAYOUT NOTES:

1. REFERENCE NOTES ON LAYOUT DRAWING LS-101.
2. LAYOUT TO BE VERIFIED IN FIELD BY ENGINEER.
3. FOR DETAILED LAYOUTS OF LANDINGS, SEE LS-513 TO LS-517.
4. FOR DETAILED LAYOUTS OF CHANNEL & POND STONE DROPS, SEE LS-509 TO LS-512.
5. FOR LAYOUTS OF CURB INFILTRATION AREAS, SEE LS-203.



| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

**METROPOLITAN WATER RECLAMATION DISTRICT
OF GREATER CHICAGO**

Designed by:
LH

Checked by:
LH

Drawn by:
LH

Reviewed by:
LH

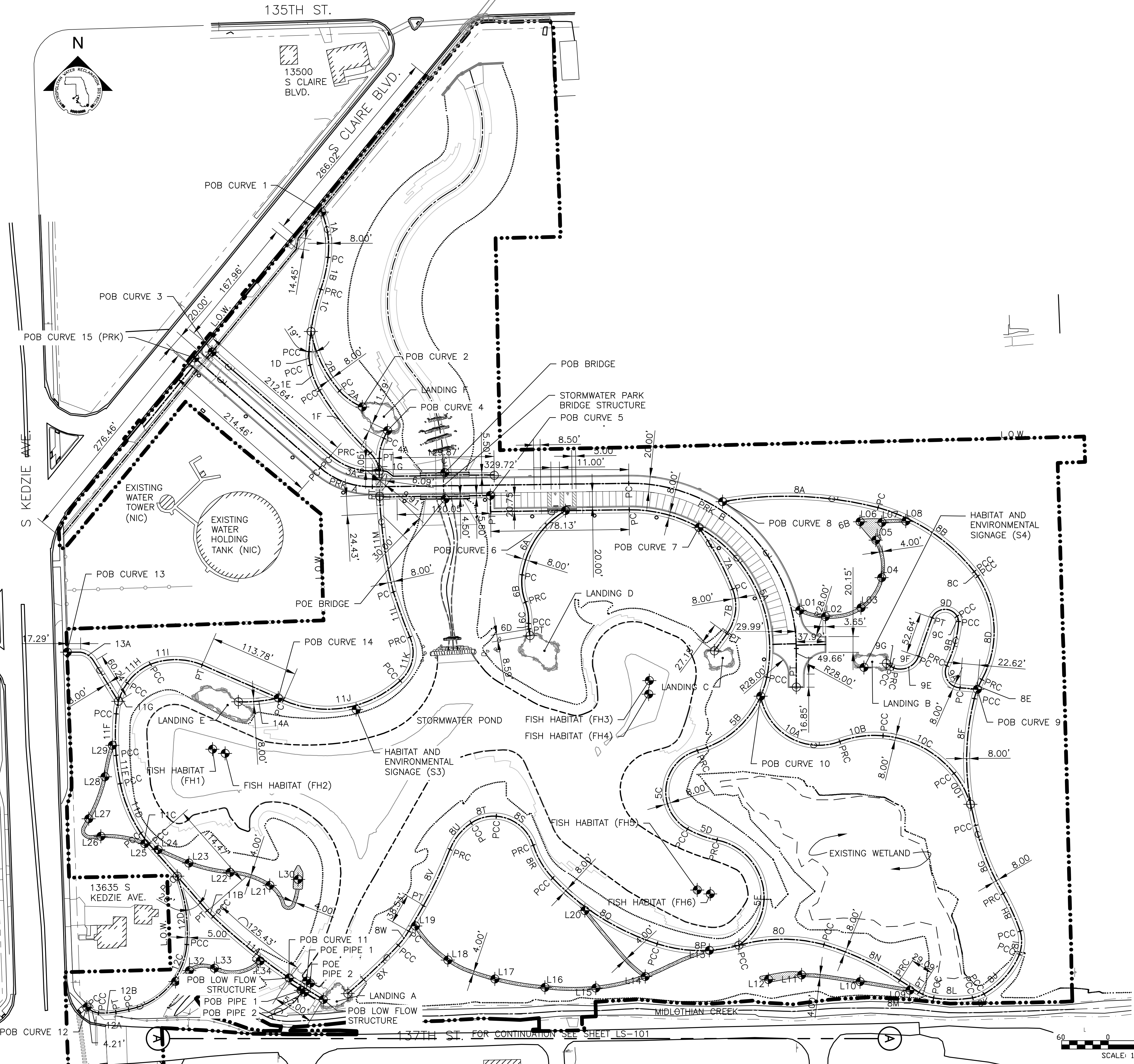
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MAY 2024

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AS SHOWN

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
LAYOUT PLAN

Sheet Number:
LS-201
 Page Number: 122

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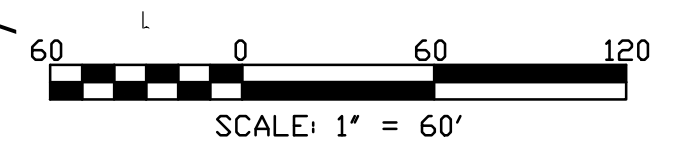


LEGEND:

- L.O.W. — LIMIT OF WORK
- R.O.W. — RIGHT OF WAY
- CHANNEL CENTER LINE & DIRECTION OF FLOW
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- WOUS — WATERS OF UNITED STATES
- PATH CENTER LINE
- MOWN TURF PATHS CENTER LINE
- ▨ MOWN TURF LANDINGS
- POB ● POINT OF BEGINNING
- POE ⊕ POINT OF ENDING
- ⊕ END OF CURVE
- LXX MOWN PATH LAYOUT COORDINATE POINT
- PCC POINT OF COMPOUND CURVATURE
- PC POINT OF CURVATURE
- PT POINT OF TANGENCY
- PRC POINT OF REVERSE CURVATURE
- N: NORTHING COORDINATE
- E: EASTING COORDINATE
- PND POND EDGE
- CH CHANNEL CENTER LINE

LAYOUT NOTES:

1. REFERENCE NOTES ON LAYOUT DRAWING LS-101.
2. LAYOUT TO BE VERIFIED IN FIELD BY ENGINEER.
3. FOR LAYOUT TABLES, SEE LS-204 AND LS-205.
4. FOR LAYOUTS OF LANDINGS, SEE LS-513 TO LS-517.
5. FOR LAYOUTS OF CHANNEL & POND STONE DROPS, SEE LS-509 TO LS-512.
6. FOR LAYOUTS OF CURB INFILTRATION AREAS, SEE LS-203.



| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| 1 | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

**METROPOLITAN WATER RECLAMATION DISTRICT
OF GREATER CHICAGO**

Designed by:
LH

Drawn by:
LH

Date:
MAY 2024

Checked by:
LH

Reviewed by:
LH

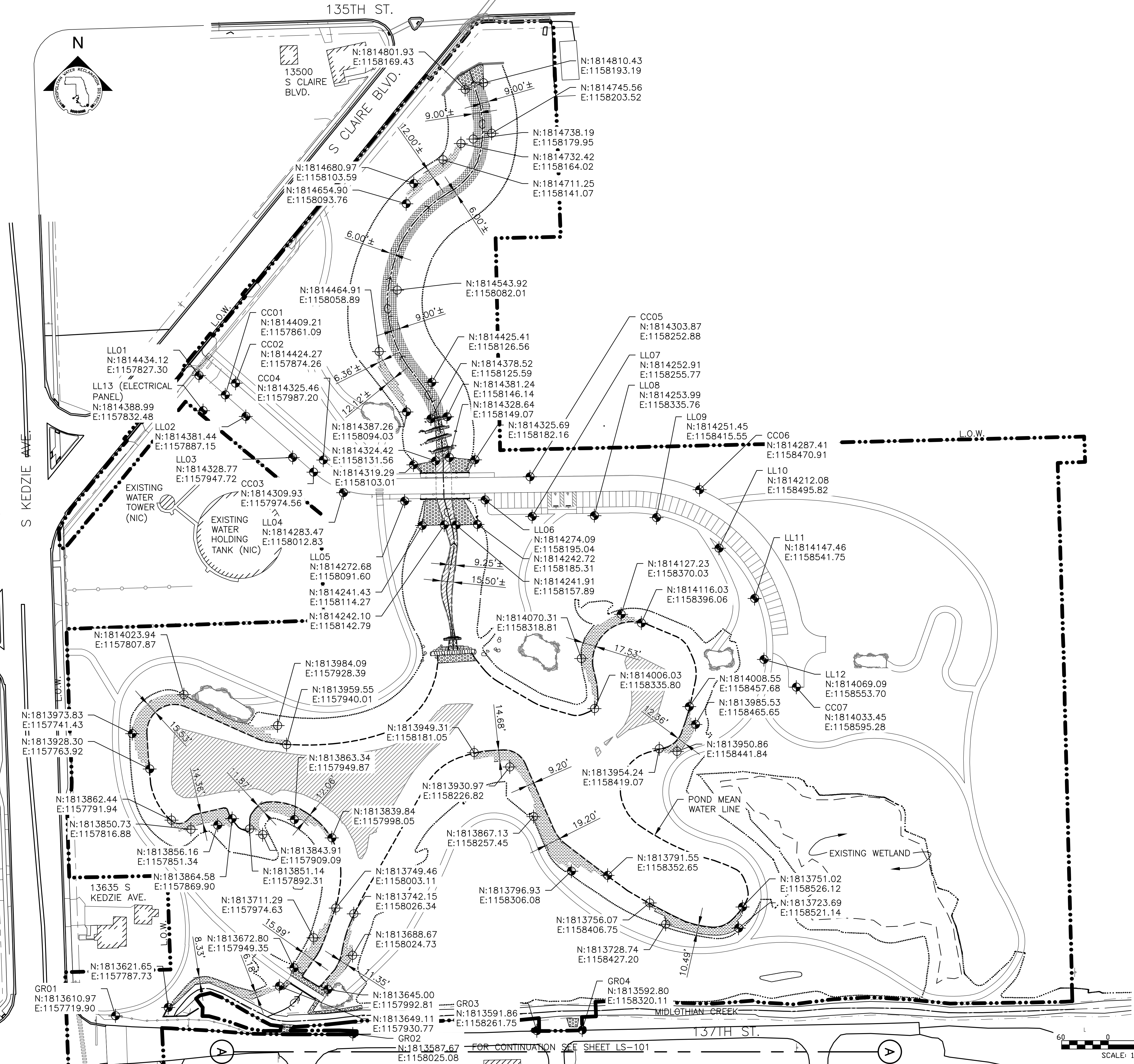
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CONTRACT 14-253-5FR
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
LITTLE CALUMET RIVER WATERSHED
LAYOUT PLAN

Sheet Number:
LS-202
Page Number: 123

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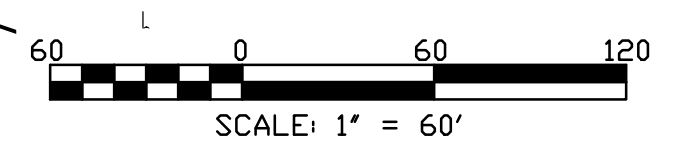


LEGEND:

- L.O.W. LIMIT OF WORK
- R.O.W. RIGHT OF WAY
- CHANNEL CENTER LINE & DIRECTION OF FLOW
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- STONE ARMORING AT STEEP SLOPE, REFERENCE 2/LS-506
- STONE ARMORING AT WATERLINE WITHIN BEDROCK, REFERENCE 1/LS-506
- RIP RAP
- EXPOSED BEDROCK
- POB POINT OF BEGINNING
- POE POINT OF ENDING
- END OF CURVE
- PCC POINT OF COMPOUND CURVATURE
- PC POINT OF CURVATURE
- PT POINT OF TANGENCY
- PRC POINT OF REVERSE CURVATURE
- PND POND EDGE
- CH CHANNEL CENTER LINE
- LLXX LIGHTING LAYOUT
- GRXX GUARDRAIL LAYOUT
- CCXX CURB INFILTRATION AREA LAYOUT

LAYOUT NOTES:

1. REFERENCE NOTES ON LAYOUT DRAWING LS-101.
2. LAYOUTS TO BE VERIFIED IN FIELD BY ENGINEER.
3. FOR DETAILED LAYOUTS OF LANDINGS, SEE LS-513 TO LS-517.
4. FOR DETAILED LAYOUTS OF CHANNEL & POND STONE DROPS, SEE LS-509 TO LS-512.
5. FOR SITE LIGHTING PLAN AND DETAILS, SEE E-101 AND E-501.



| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| 1 | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

**METROPOLITAN WATER RECLAMATION DISTRICT
OF GREATER CHICAGO**

DONOHUE
CONSULTING ENGINEERS

Accurate
CONSULTING ENGINEERS

| | |
|--------------------|--------------------|
| Designed by: LH | Checked by: LH |
| Drawn by: LH | Reviewed by: LH |
| Date: MAY 2024 | Scale: AS SHOWN |

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
STONE & LIGHTING LAYOUT PLAN

Sheet Number:
LS-203
 Page Number: 124

CHANNEL AND DROP LAYOUT

Table with columns: POB DROP 1A, POB CH / DROP 1B, POB DROP 2A, POB DROP 2B, POB DROP 2C, POB DROP 2D, CURVE NO., RADIUS, DELTA, TAN, ARC LENGTH, CHORD, NORTHING, EASTING.

MIDLOTHIAN CREEK LOW FLOW STRUCTURE

Table with columns: POB LOW FLOW STRUCTURE, POE LOW FLOW STRUCTURE, NORTHING, EASTING.

STORMWATER PARK BRIDGE STRUCTURE

Table with columns: POB BRIDGE, POE BRIDGE, NORTHING, EASTING.

STORMWATER PARK FISH HABITAT

Table with columns: FH1, FH2, FH3, FH4, FH5, FH6, NORTHING, EASTING.

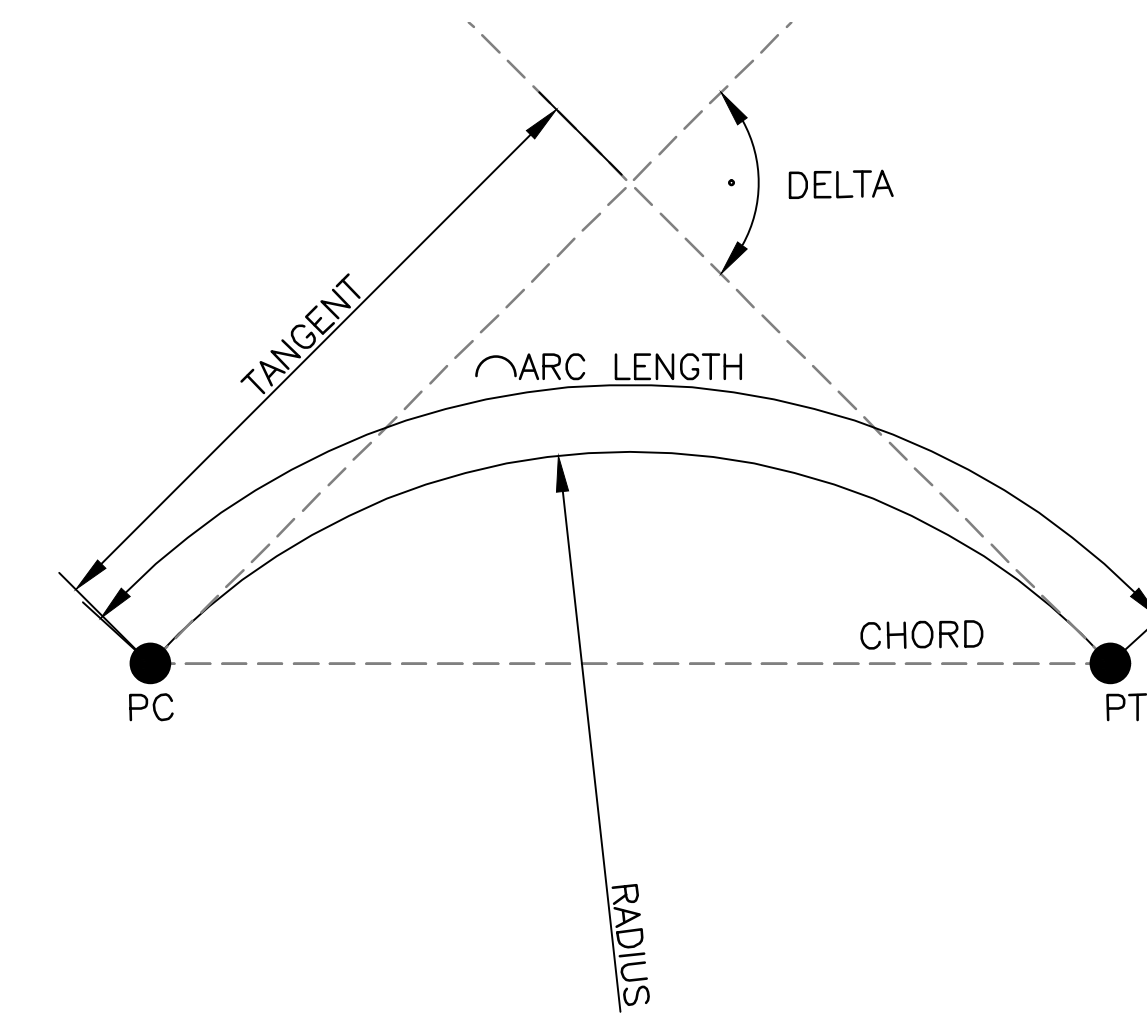
HABITAT AND ENVIRONMENTAL SIGNAGE (STORMWATER PARK)

Table with columns: S3, S4, NORTHING, EASTING.

POND EDGE LAYOUT

Main table with columns: POB PND, CURVE NO., RADIUS, DELTA, TAN, ARC LENGTH, CHORD, NORTHING, EASTING.

Table with columns: POE, PND, NORTHING, EASTING.



1 LAYOUT DIAGRAM SCALE: NTS

Revision table with columns: Rev, Description, Appr. Date.

Professional seal area containing logos for Metropolitan Water Reclamation District of Greater Chicago, Donohue, Accurate, and Living Habitats.

CONTRACT 14-253-5FR FLOOD CONTROL PROJECT ON MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID) LITTLE CALUMET RIVER WATERSHED LAYOUT SCHEDULE

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PLOT DATE: 6/15/2018 3:08 PM PLOTTED BY: HANNAH CUSICK

STORMWATER POND PATHS LAYOUT

Table with columns: CURVE NO., NORTHING, EASTING, RADIUS, DELTA, TAN, ARC LENGTH, CHORD. Includes data for curves 1A through 8D and their respective end points.

Table with columns: CURVE NO., NORTHING, EASTING, RADIUS, DELTA, TAN, ARC LENGTH, CHORD. Includes data for curves 8E through 10D and their respective end points.

Table with columns: CURVE NO., NORTHING, EASTING, RADIUS, DELTA, TAN, ARC LENGTH, CHORD. Includes data for curves 11A through 11M and their respective end points.

Table with columns: CURVE NO., NORTHING, EASTING, RADIUS, DELTA, TAN, ARC LENGTH, CHORD. Includes data for curves 11 through 15 and their respective end points.

MIDLOTHIAN CREEK LOW FLOW PIPE LAYOUT

Table with columns: PIPE NO., NORTHING, EASTING. Includes data for POB PIPE 1, POE PIPE 1, POB PIPE 2, and POE PIPE 2.

MOWN PATHS LAYOUT

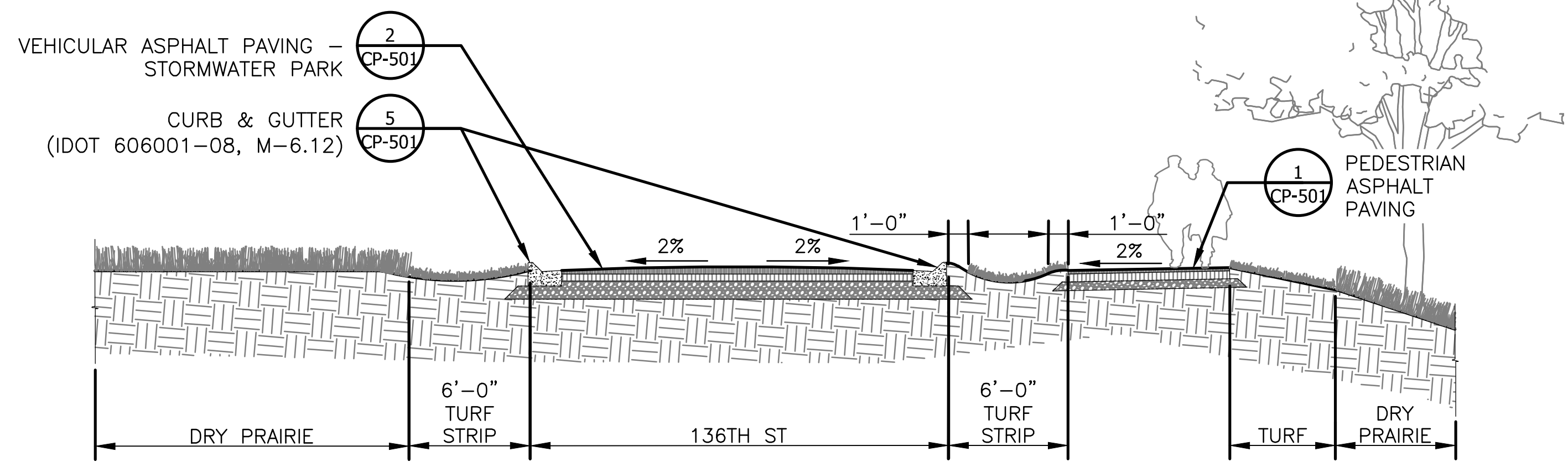
Table with columns: PIPE NO., NORTHING, EASTING. Includes data for paths L01 through L20 and L21 through L34.

Revision table with columns: Rev., Description, Appr., Date. Includes entry for ISSUE FOR CONSTRUCTION.

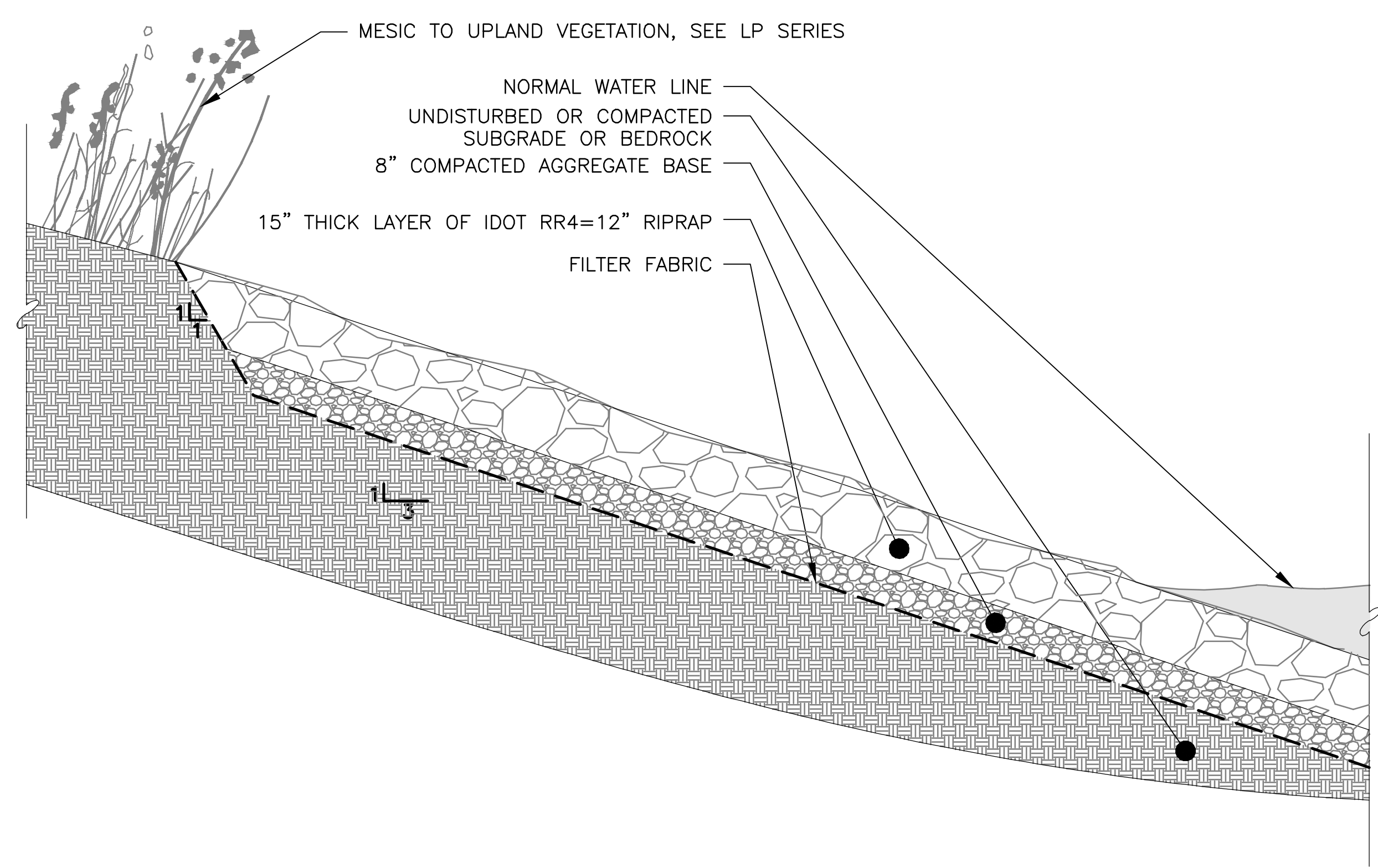
Professional engineering stamps for DONOHUE, ACCURATE, and LIVING HABITATS. Includes project name and date.

Project title block: CONTRACT 14-253-5FR, FLOOD CONTROL PROJECT ON MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID).

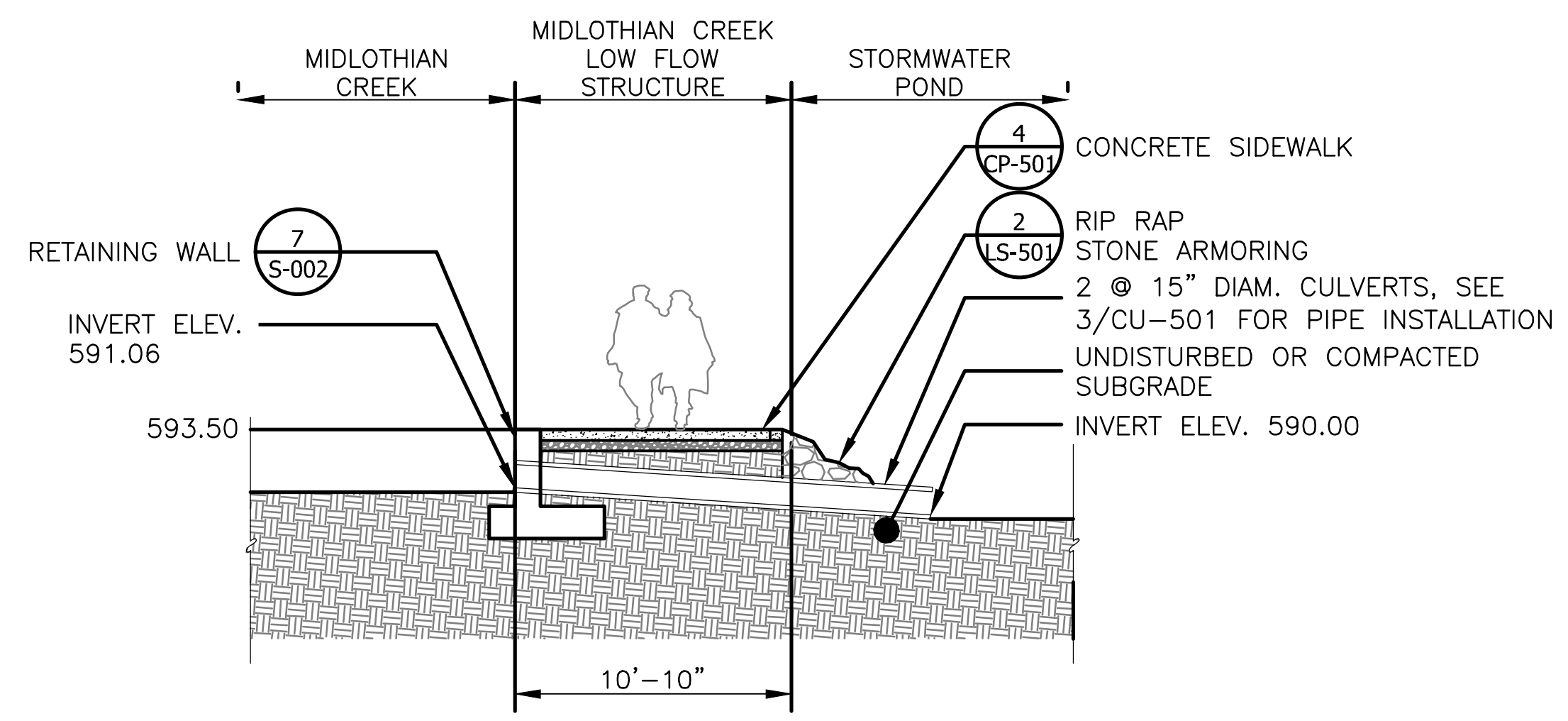
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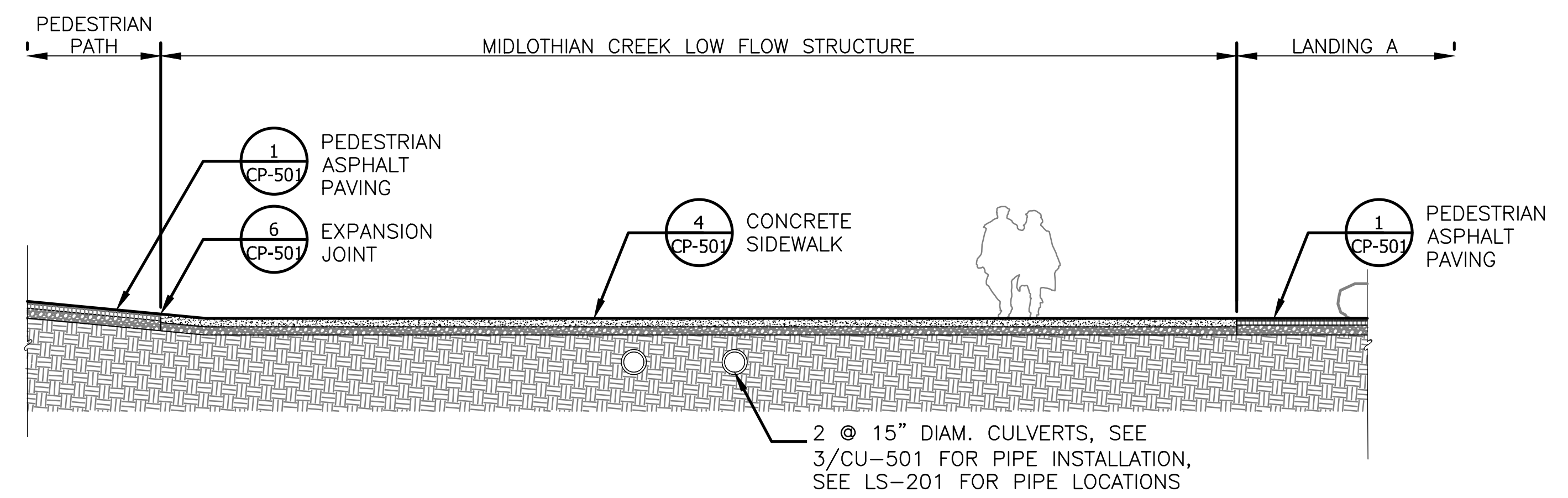
1 CROSS SECTION AT 136TH ST
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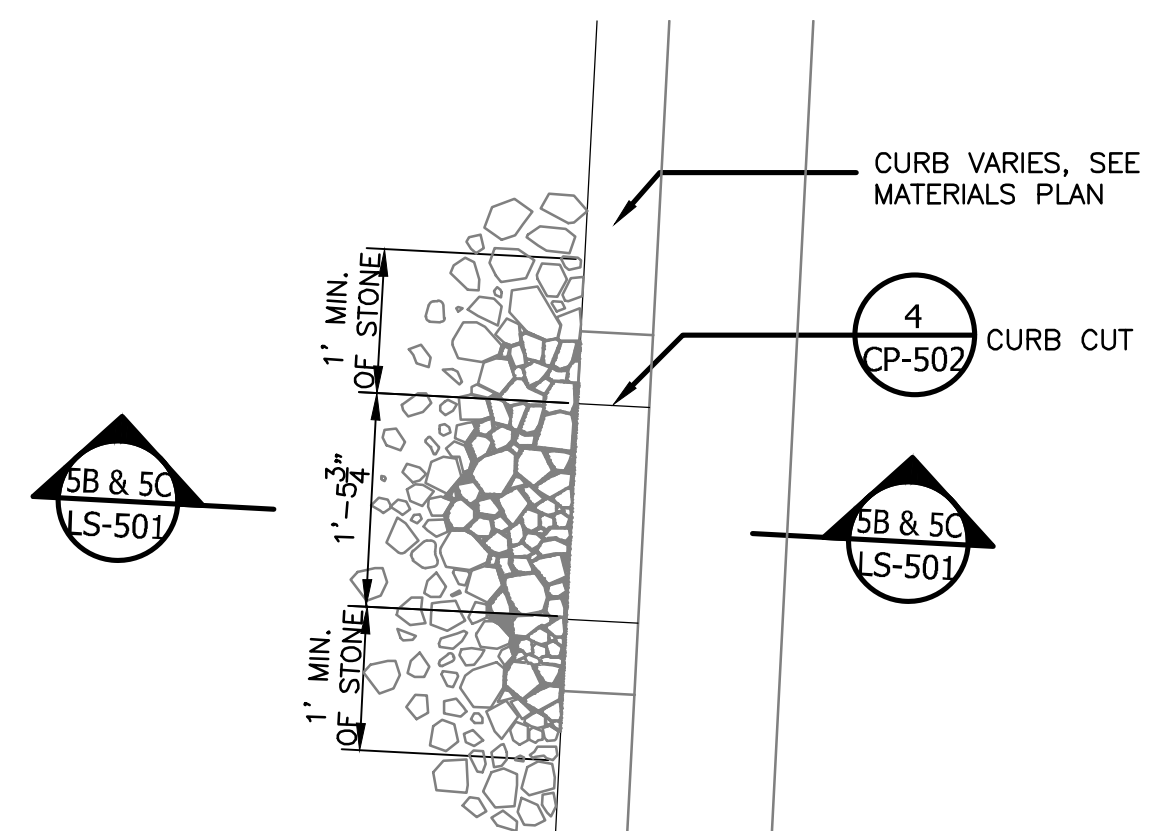
2 RIP RAP STONE ARMORING
 SCALE: 1" = 2'-0"



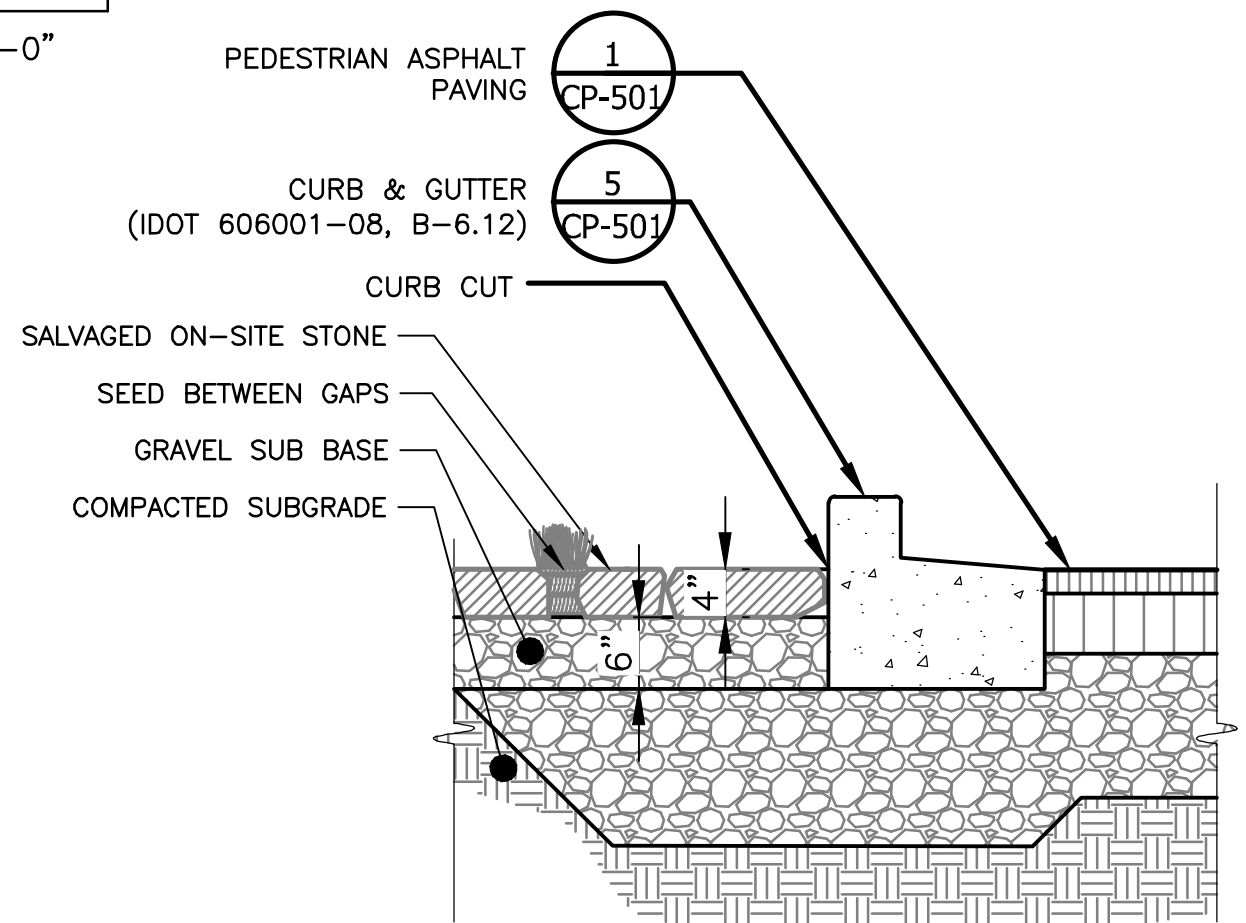
3 MIDLOTHIAN CREEK LOW FLOW STRUCTURE - SECTION
 SCALE: 3/16" = 1'-0"



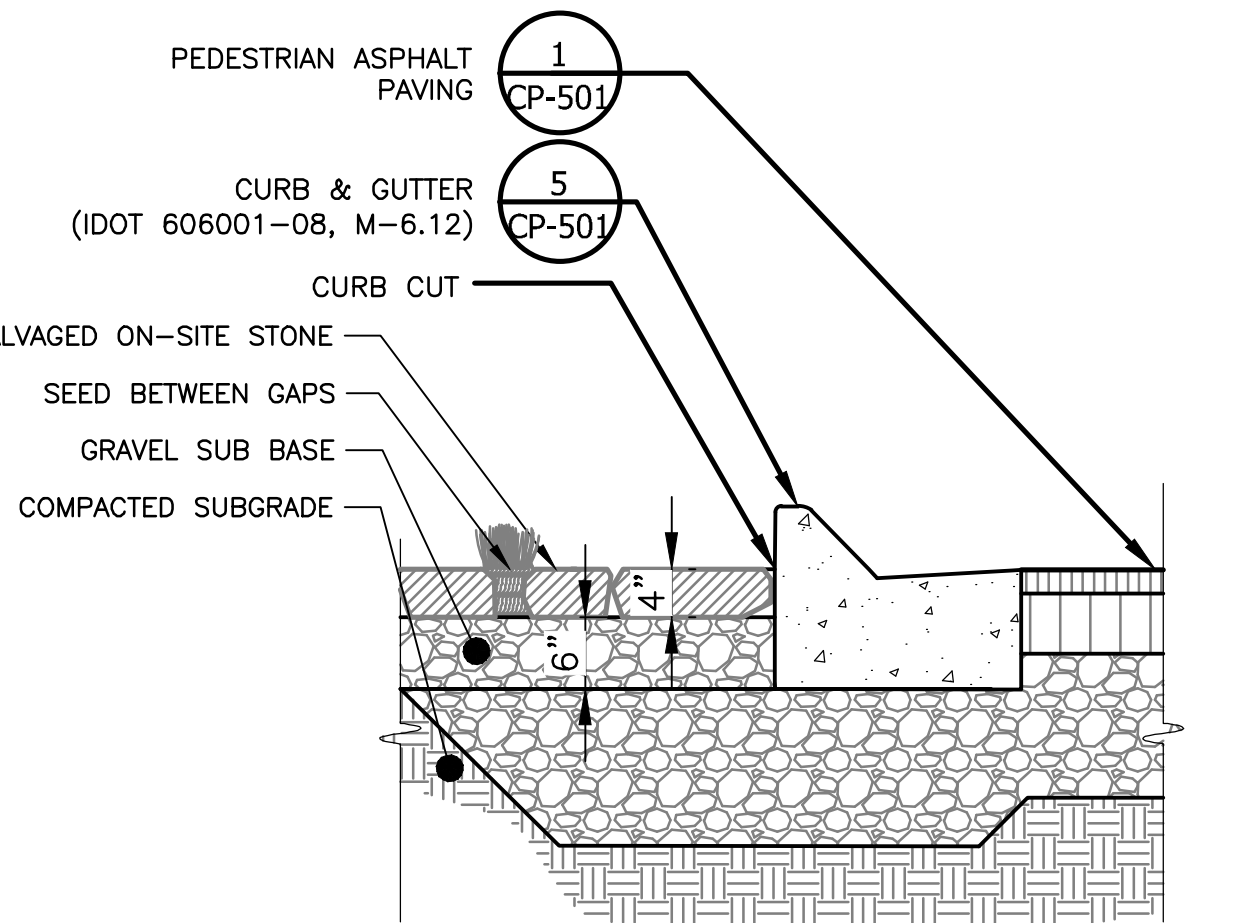
4 MIDLOTHIAN CREEK LOW FLOW STRUCTURE - LONGITUDINAL SECTION
 SCALE: 3/16" = 1'-0"



5A STONE LAYOUT OF INFILTRATION AREA - PLAN
 3/4" = 1'-0"

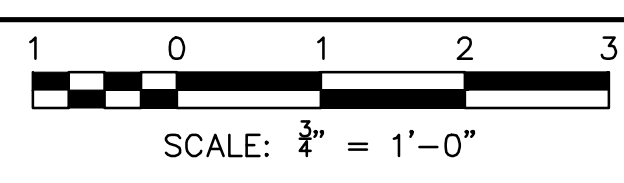


5B STONE LAYOUT OF INFILTRATION AREA - STANDARD CURB
 3/4" = 1'-0"



5C STONE LAYOUT OF INFILTRATION AREA - MOUNTABLE CURB
 3/4" = 1'-0"

5 STONE LAYOUT OF INFILTRATION AREA



| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| 1 | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

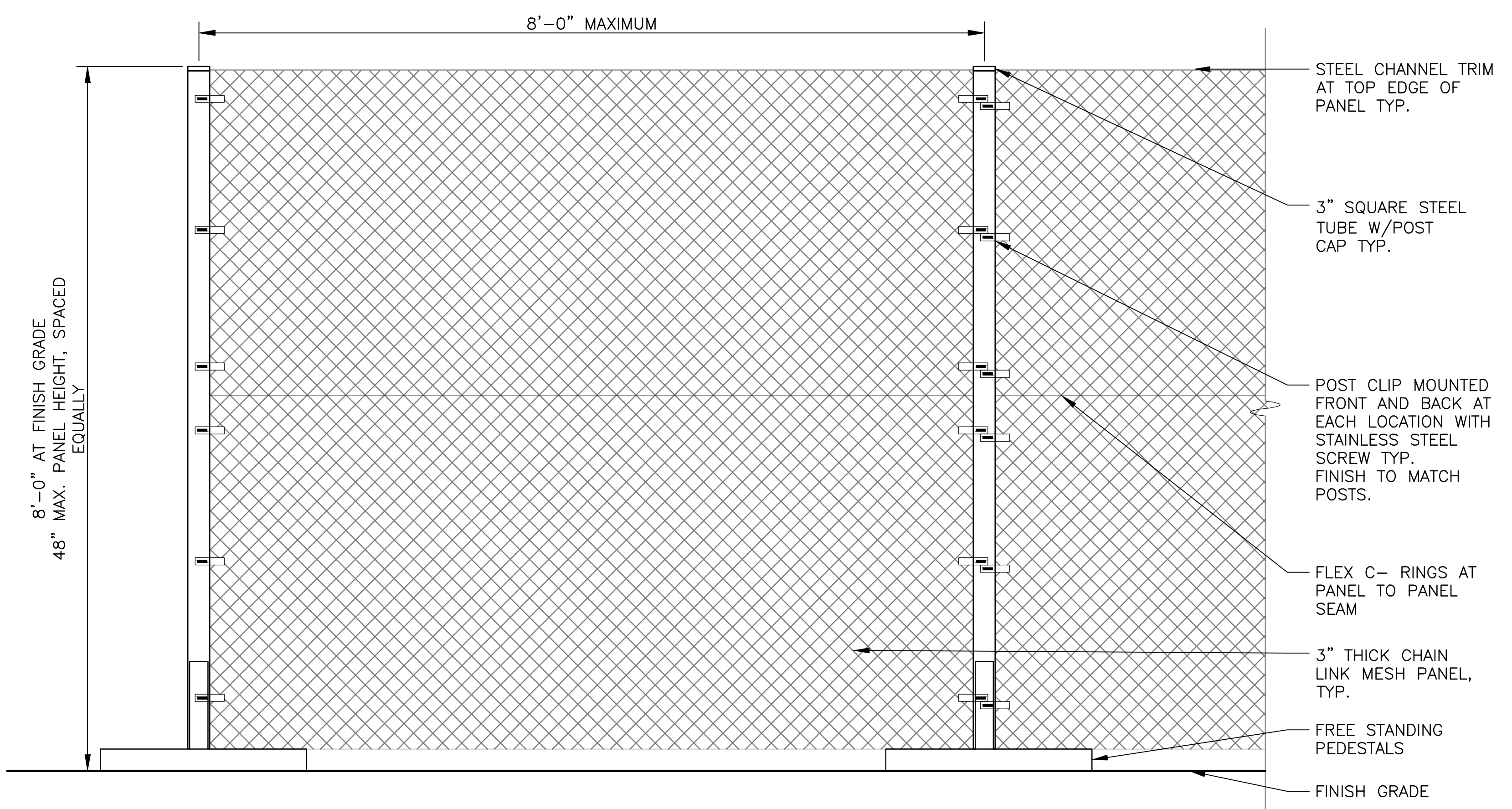
CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
 SITE DETAILS

Designed by: LH
 Checked by: LH
 Drawn by: LH
 Reviewed by: LH
 Date: MAY 2024
 Scale: AS SHOWN

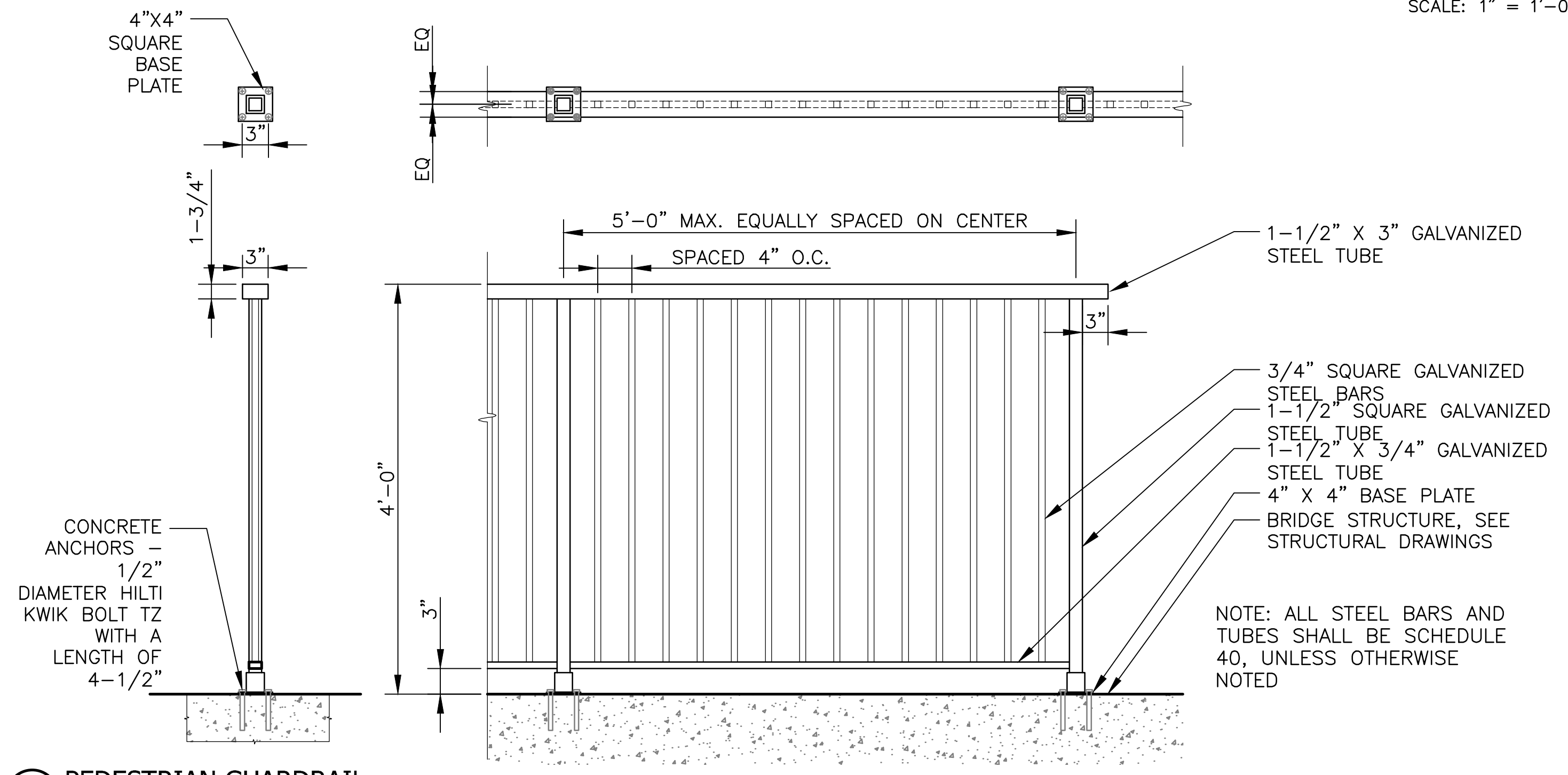
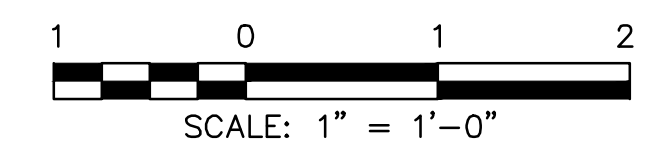
Accurate GROUP INC.
 DONOHUE
 LIVING HABITATS
 ZIM
 OREA
 O'Brien & Associates, Inc.
 CONSULTING ENGINEERS

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
 SITE DETAILS

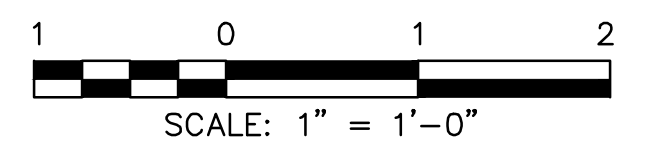
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1 TREE PROTECTION FENCE
 SCALE: 1"=1'-0"



2 PEDESTRIAN GUARDRAIL
 SCALE: 1"=1'-0"



METROPOLITAN WATER RECLAMATION DISTRICT
 OF GREATER CHICAGO

| | |
|--------------|--------------|
| Designed by: | Checked by: |
| LH | LH |
| Drawn by: | Reviewed by: |
| LH | LH |
| Date: | Scale: |
| MAY 2024 | AS SHOWN |

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
 FENCE HANDRAIL GUARD RAIL DETAILS

Sheet Number:
LS-502
 Page Number: 128

2im
 CONSULTING ENGINEERS

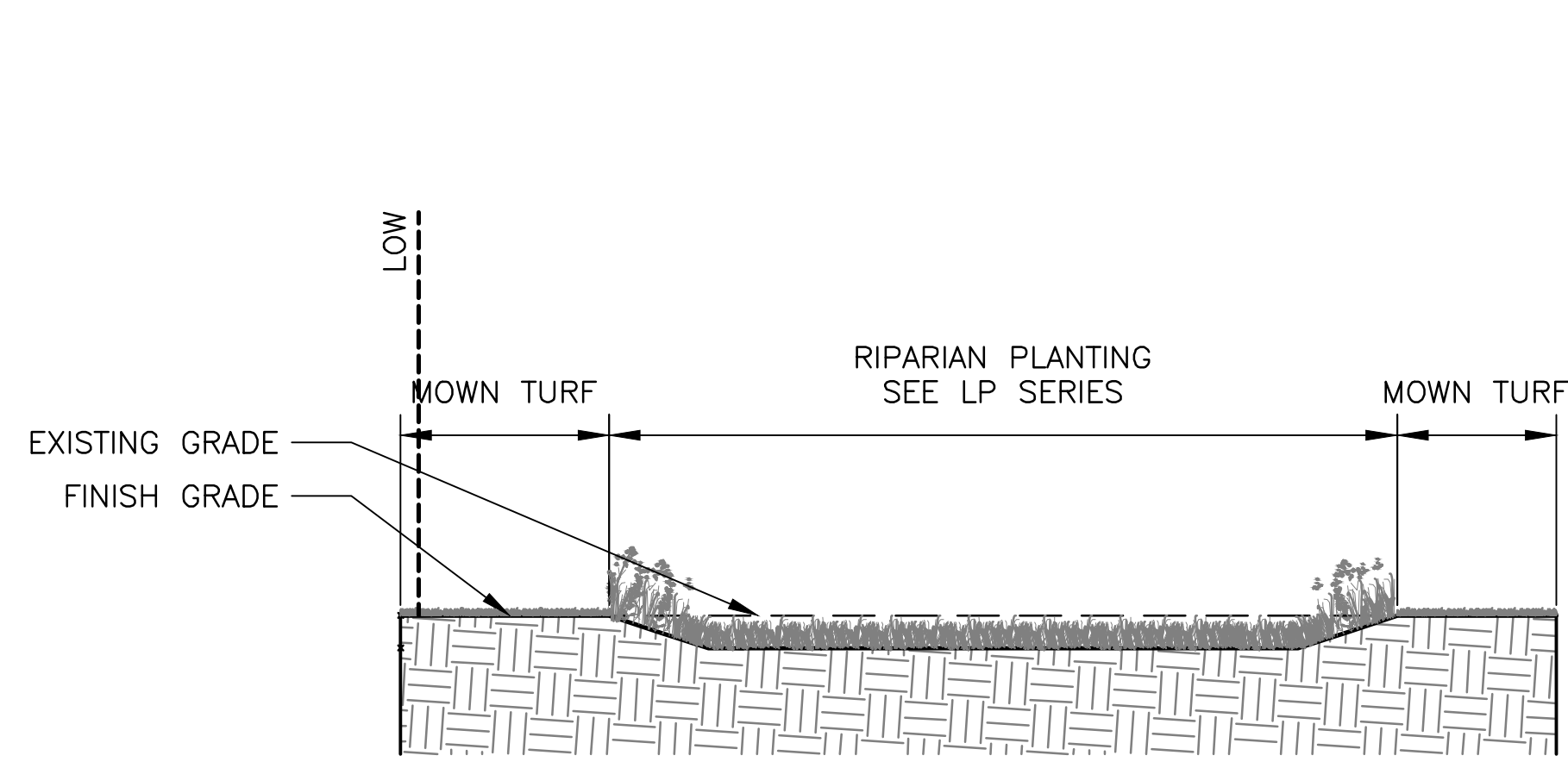
DONOHUE
 CONSULTING ENGINEERS

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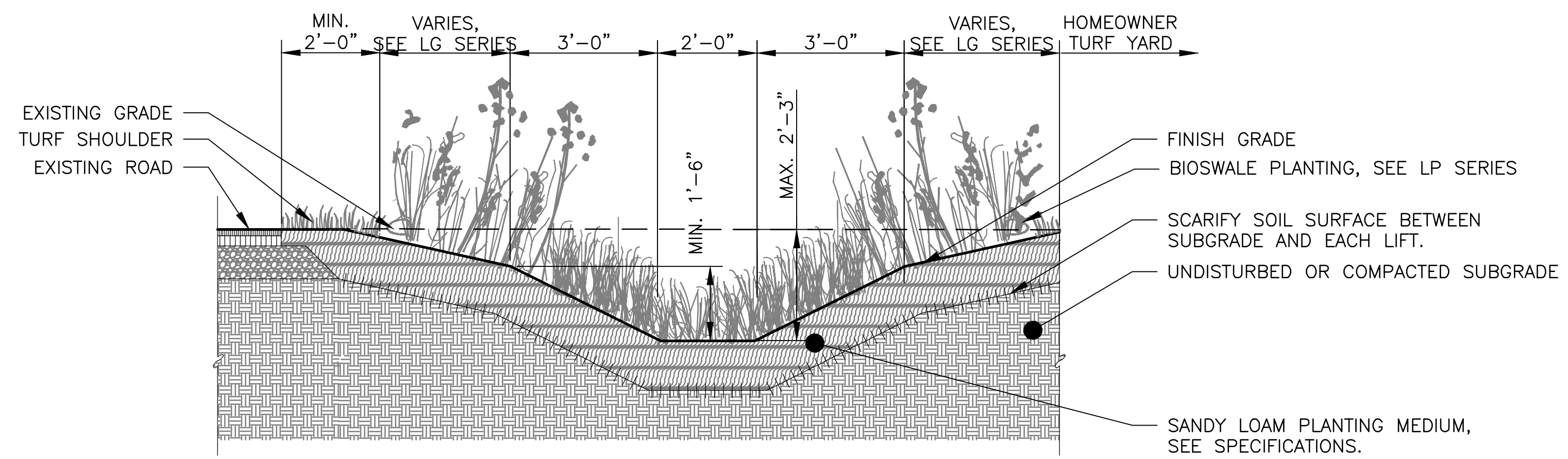
LIVING HABITATS

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PLOT DATE: 8/13/2024 11:48 AM PLOTTED BY: HANNAH CUSICK
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1 SECTION/ELEVATION ACROSS THE RAIN GARDEN
 SCALE: 1" = 10'-0"

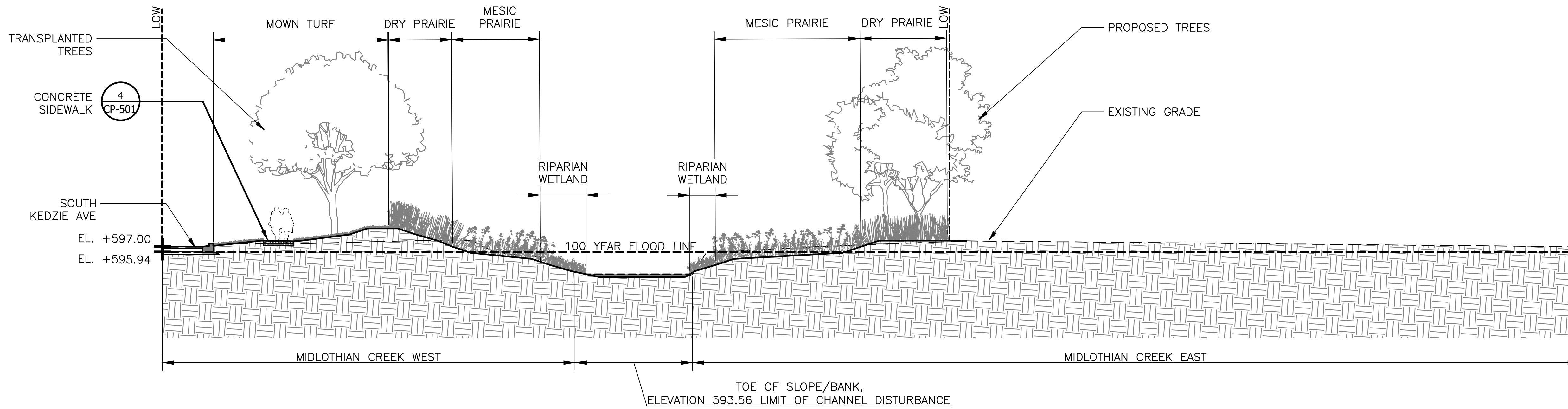


2 TYPICAL ROAD SWALE
 SCALE: 1"=2'-0"

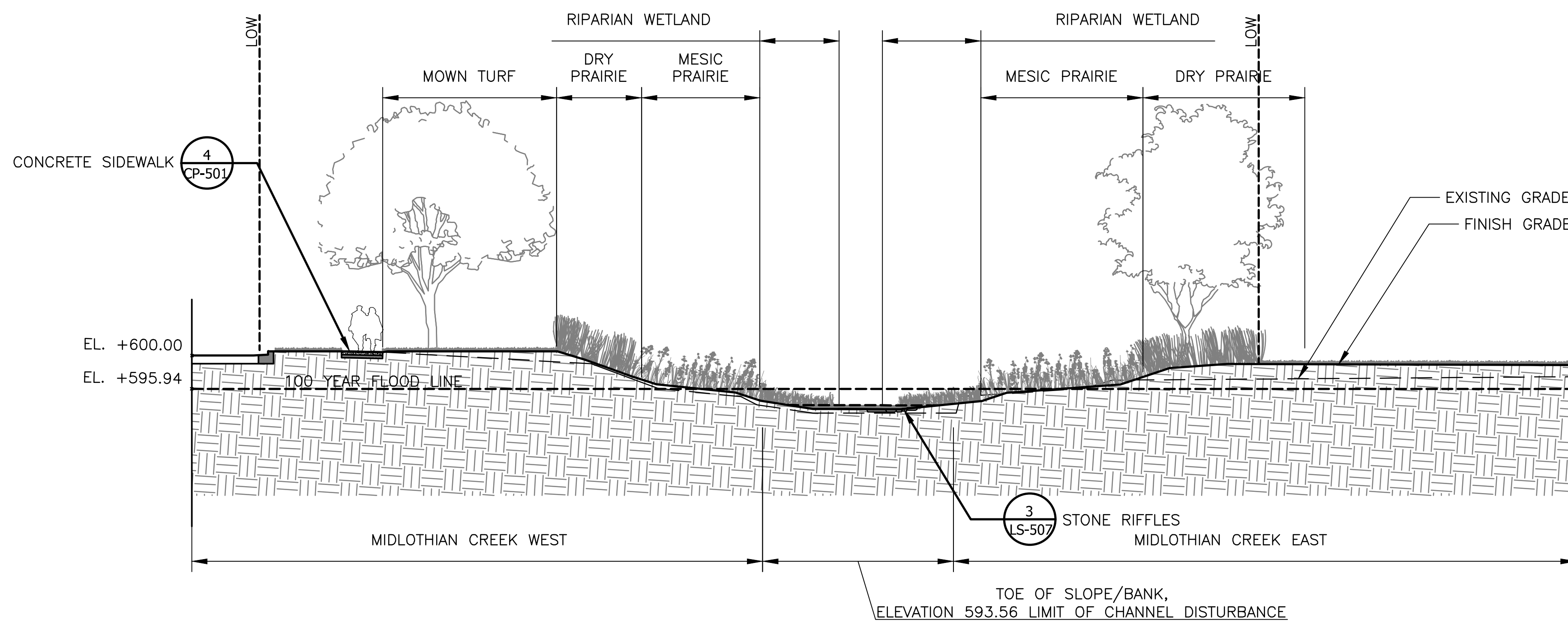
NOTES:

- CONTRACTOR TO CONFIRM INFILTRATION OF SUBGRADE PRIOR TO PLACEMENT OF TOPSOIL.

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3 SECTION ACROSS SOUTH END OF MIDLOTHIAN CREEK
 SCALE: 1" = 10'-0"



4 SECTION/ELEVATION ACROSS NORTH END OF MIDLOTHIAN CREEK - WITH STONE RIFFLES
 SCALE: 1" = 10'-0"

METROPOLITAN WATER RECLAMATION DISTRICT
 OF GREATER CHICAGO

Designed by: LH
 Checked by: LH
 Drawn by: LH
 Reviewed by: LH
 Date: MAY 2024
 Scale: AS SHOWN

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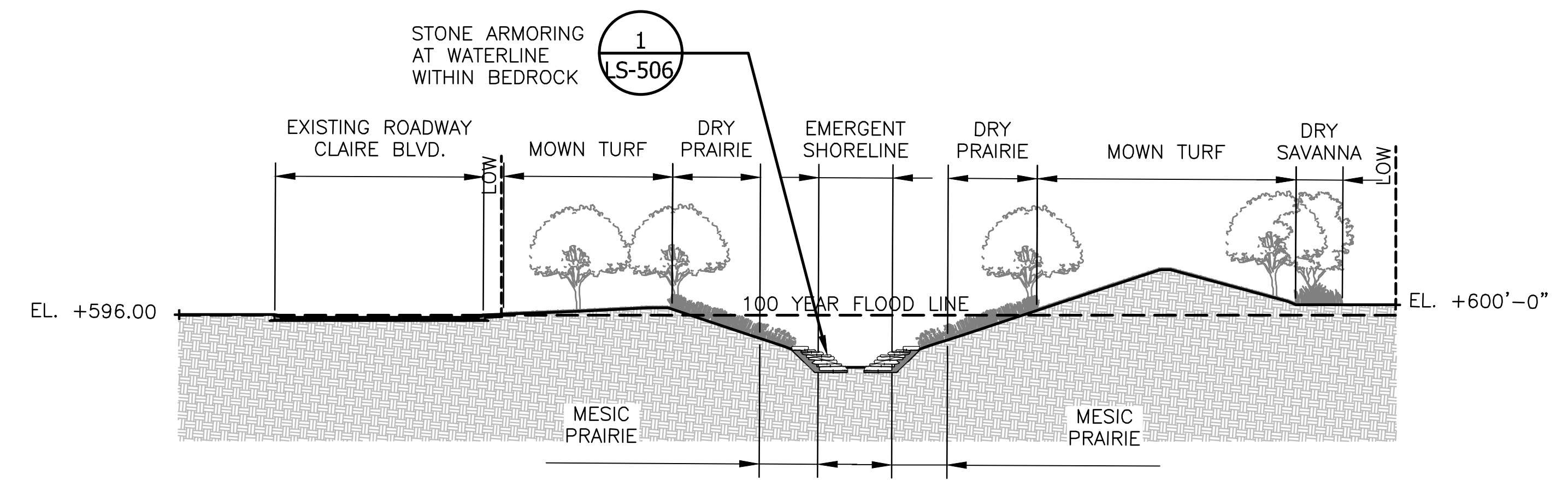
CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
 SITE SECTIONS

Sheet Number:
LS-503
 Page Number: 129

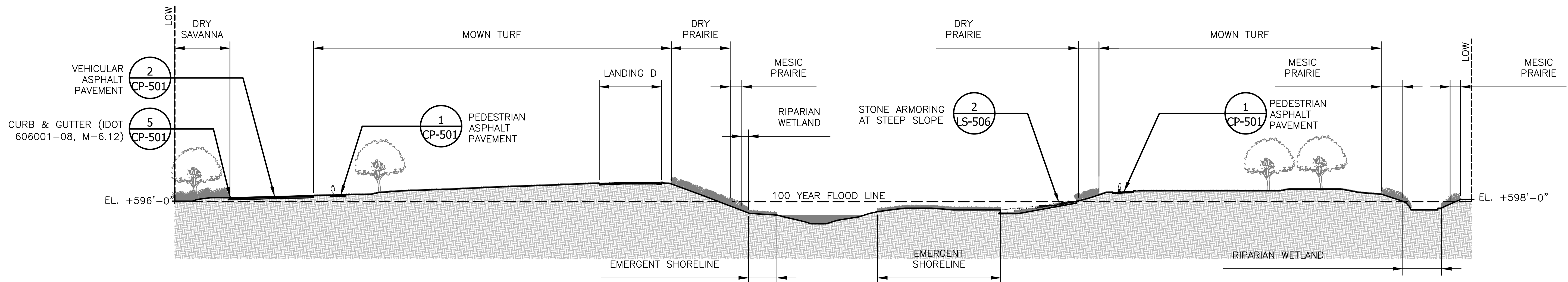
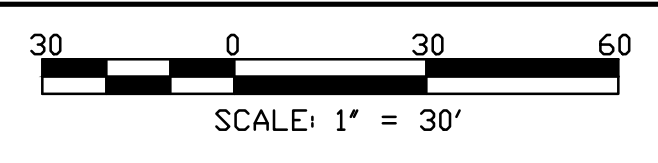
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SECTION NOTES:
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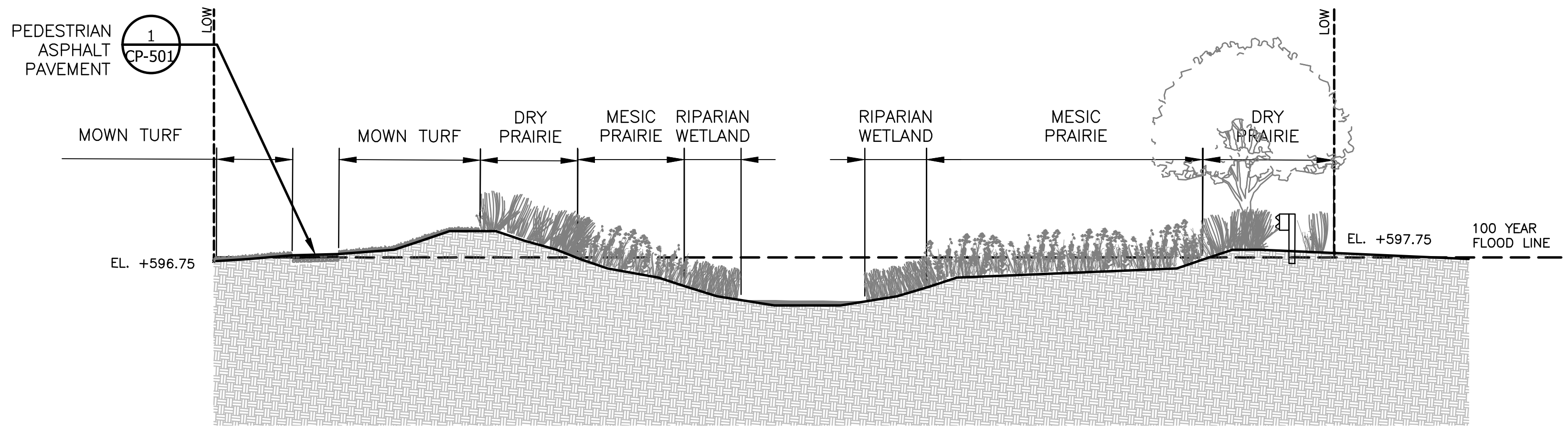
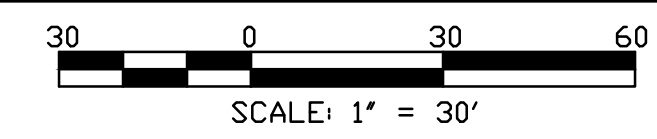
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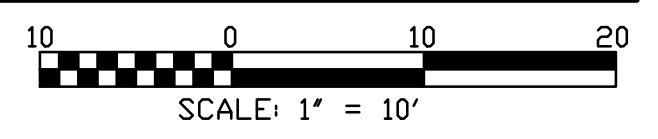
4 SITE SECTION - DIVERSION CHANNEL
 SCALE: 1" = 30'-0"



5 SITE SECTION - NORTH AND SOUTH POND SHORELINES
 SCALE: 1" = 30'-0"



6 SITE SECTION - CENTER OF MIDLOTHIAN CREEK
 SCALE: 1" = 10'-0"



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

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| Date: MAY 2024 | Scale: AS SHOWN |

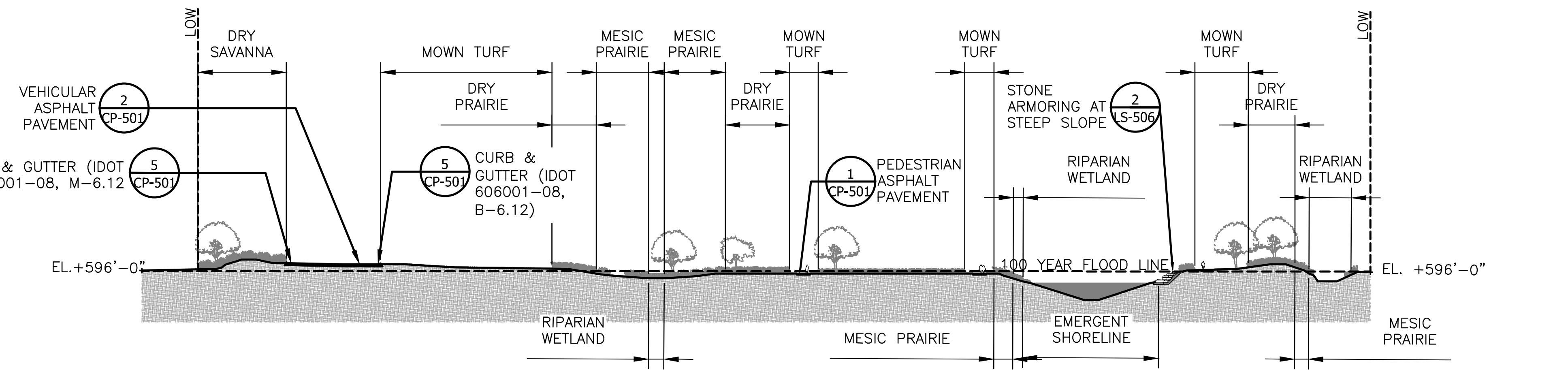
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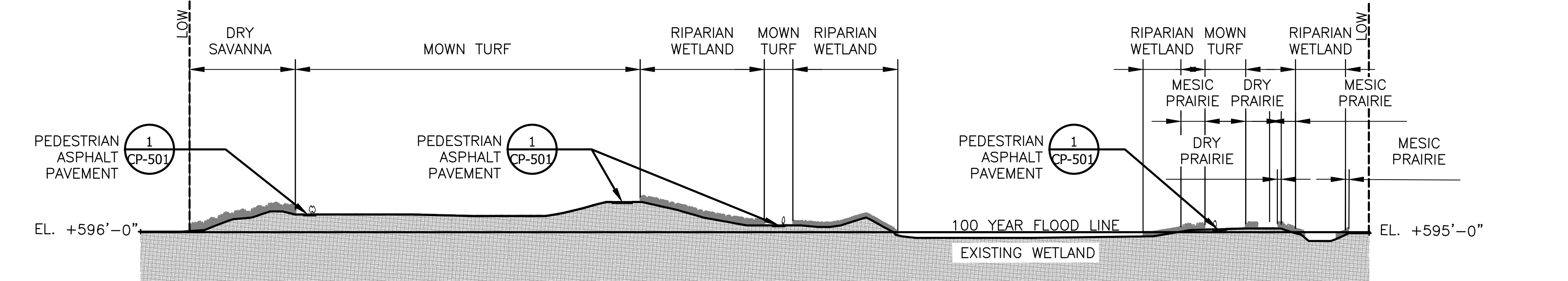
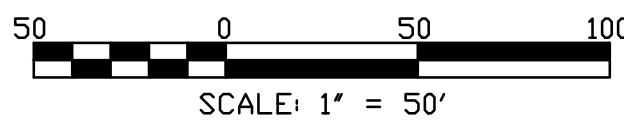
CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
 SITE SECTIONS

Sheet Number:
LS-504
 Page Number: 130

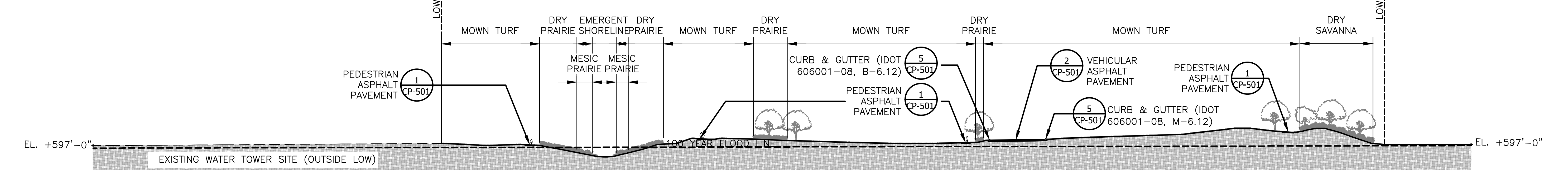
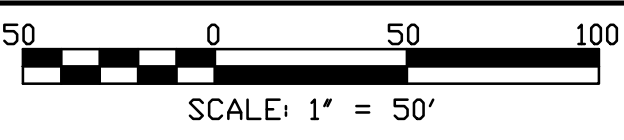
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 PLOT DATE: 8/13/2024 11:50 AM PLOTTED BY: HANNAH CUSICK



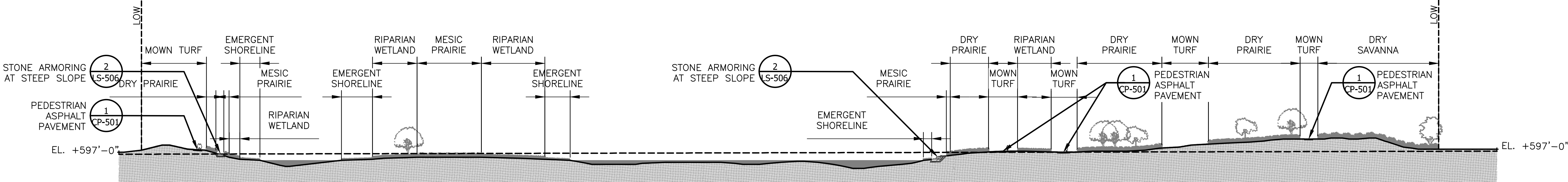
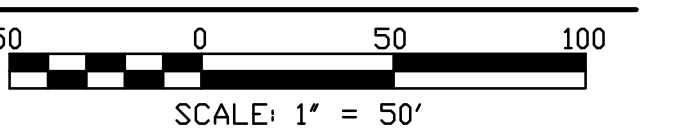
6 TYPICAL SITE SECTION
 SCALE: 1" = 50'-0"



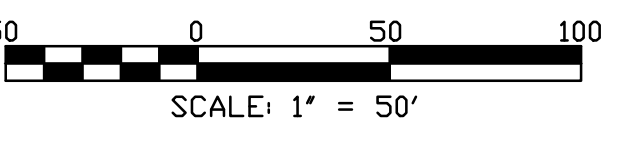
7 TYPICAL SITE SECTION
 SCALE: 1" = 50'-0"



8 TYPICAL SITE SECTION
 SCALE: 1" = 50'-0"



9 TYPICAL SITE SECTION
 SCALE: 1" = 50'-0"



- SECTION NOTES:**
1. REFER TO LP SERIES FOR ALL REFERENCES TO PLANTING.
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**METROPOLITAN WATER RECLAMATION DISTRICT
 OF GREATER CHICAGO**

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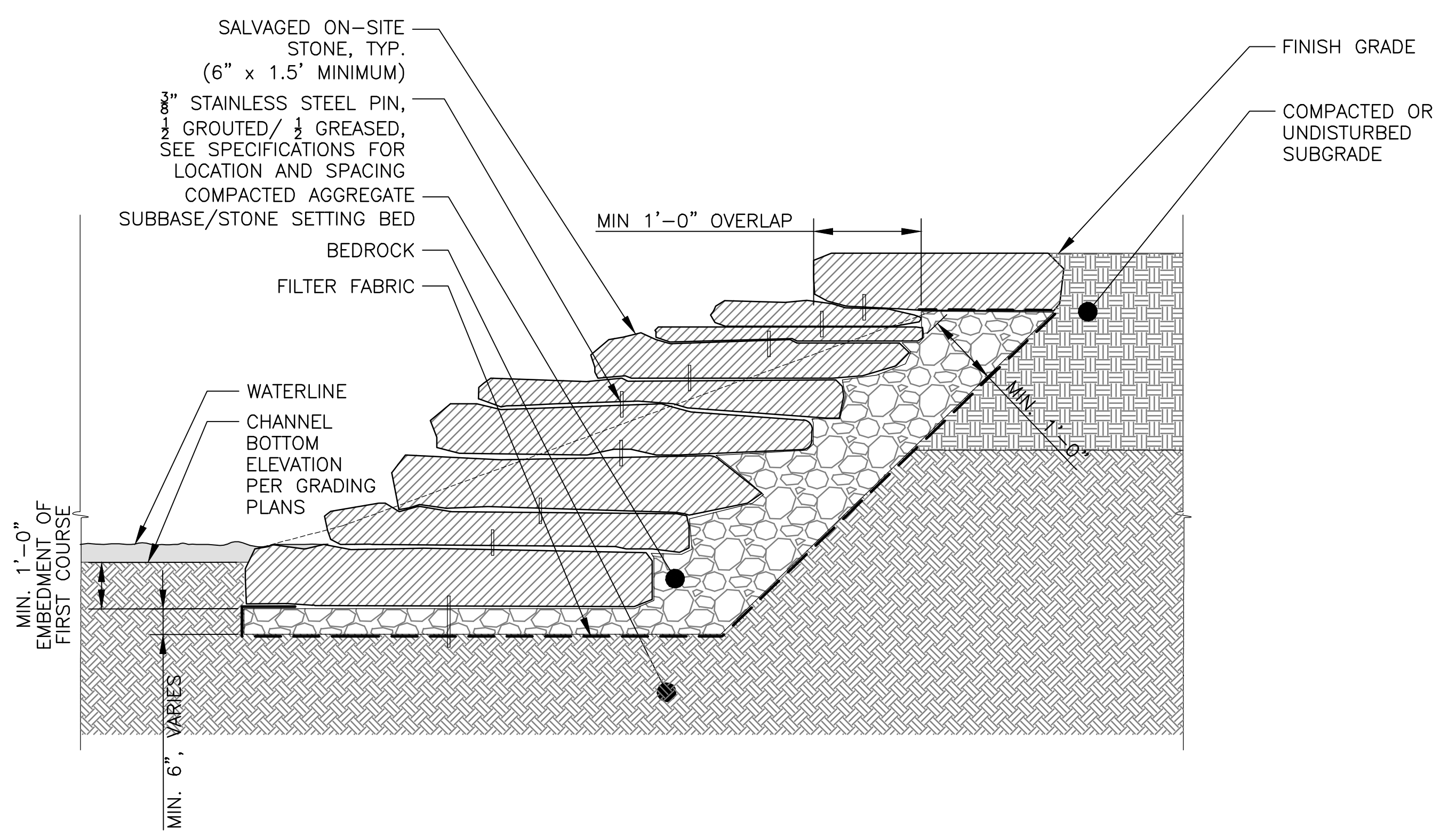
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CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
SITE SECTIONS

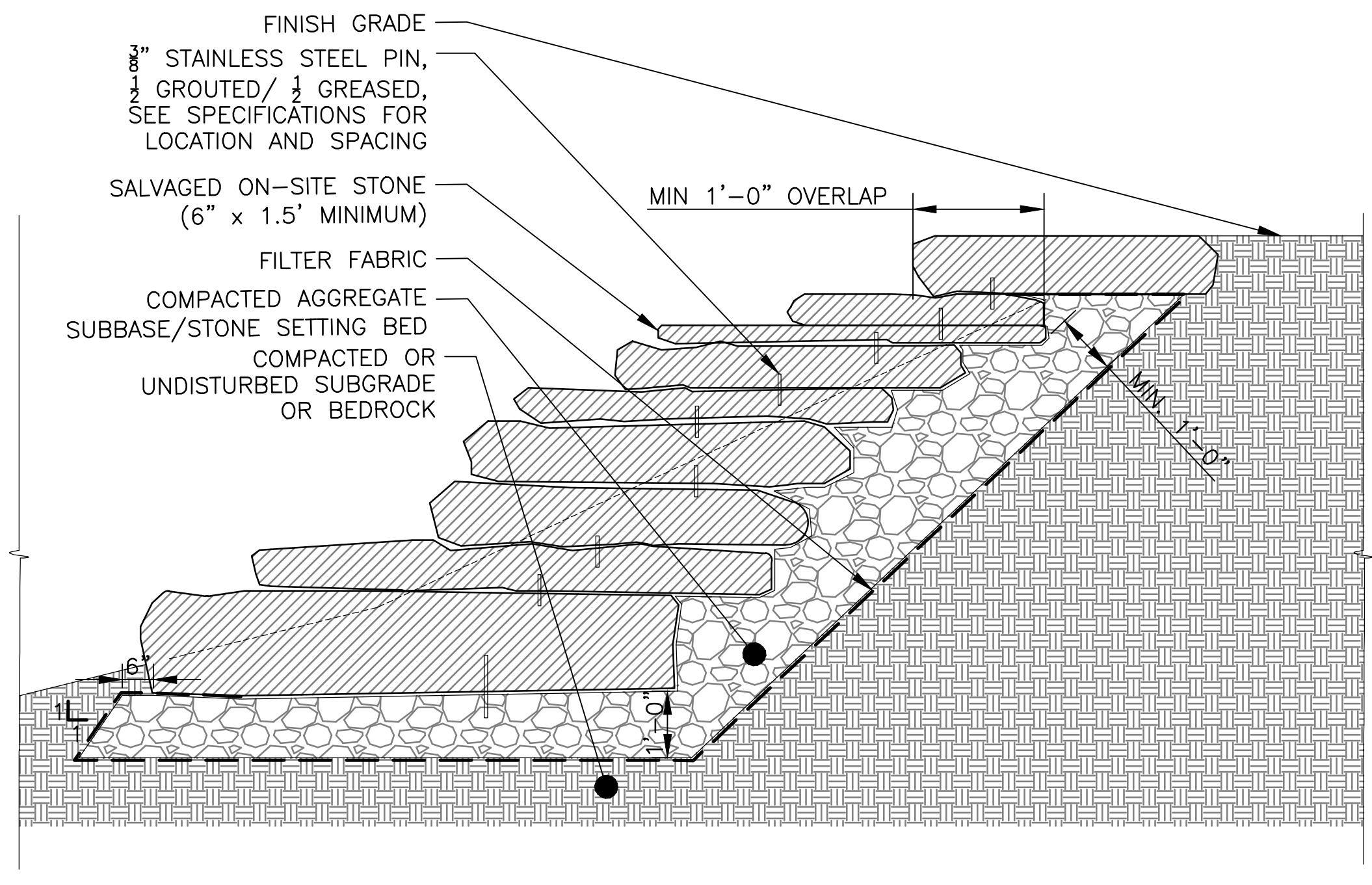
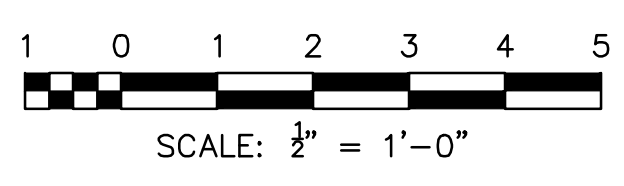
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SECTION NOTES:

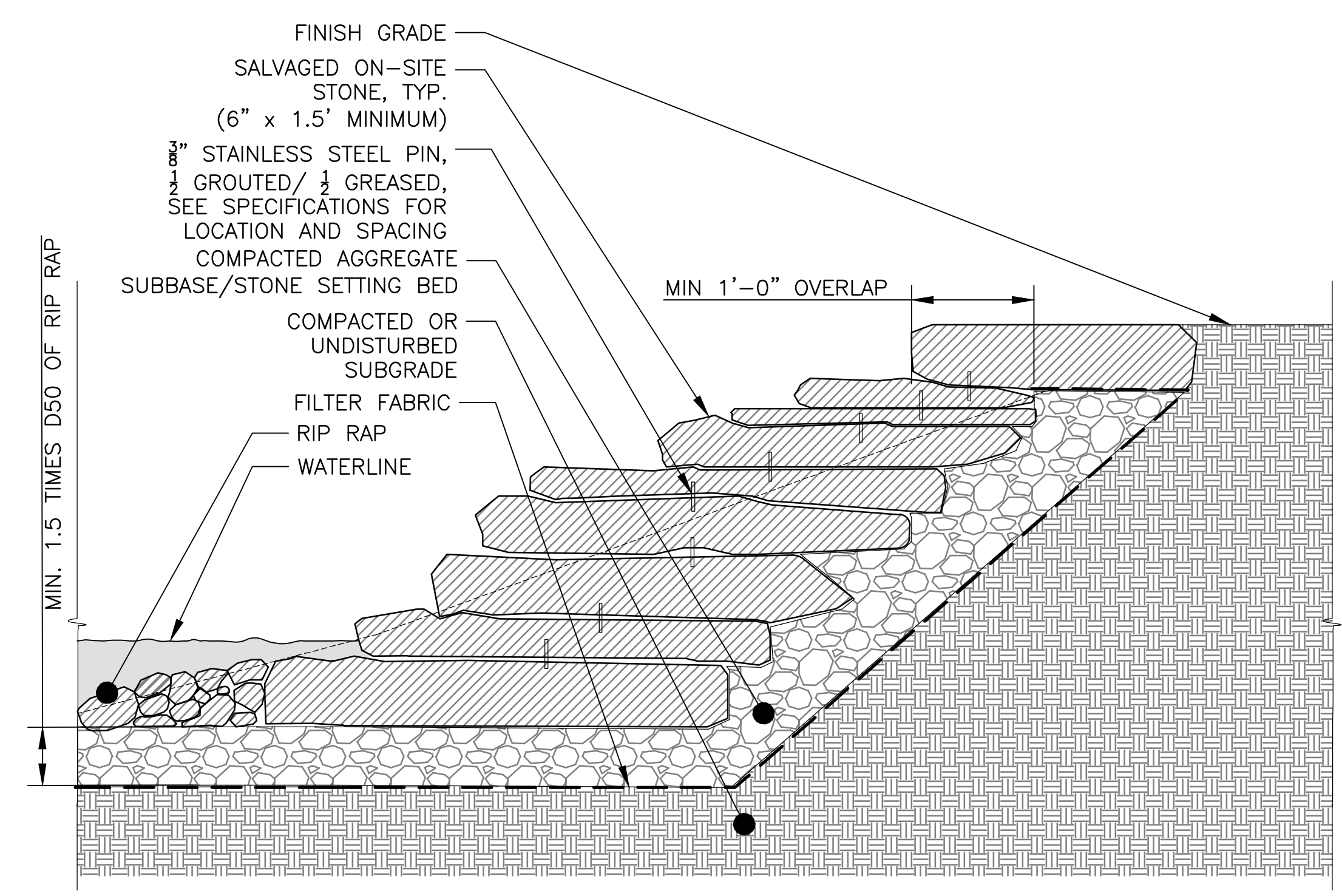
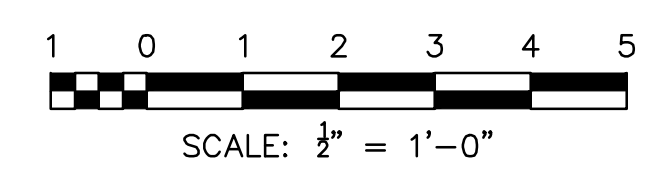
1. DETAILS GENERALLY USED IN AREAS EXCEEDING 3:1 SLOPES, SEE LAYOUT PLANS



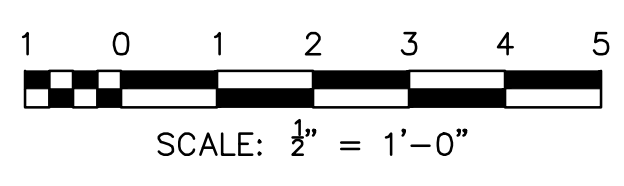
1 STONE ARMORING AT WATERLINE WITHIN BEDROCK
 1/2" = 1'-0"



2 STONE ARMORING AT STEEP SLOPE
 1/2" = 1'-0"



3 STONE ARMORING AT WATERLINE
 1/2" = 1'-0"



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METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
STONE DETAILS

Designed by: LH
 Drawn by: LH
 Date: MAY 2024

Checked by: LH
 Reviewed by: LH
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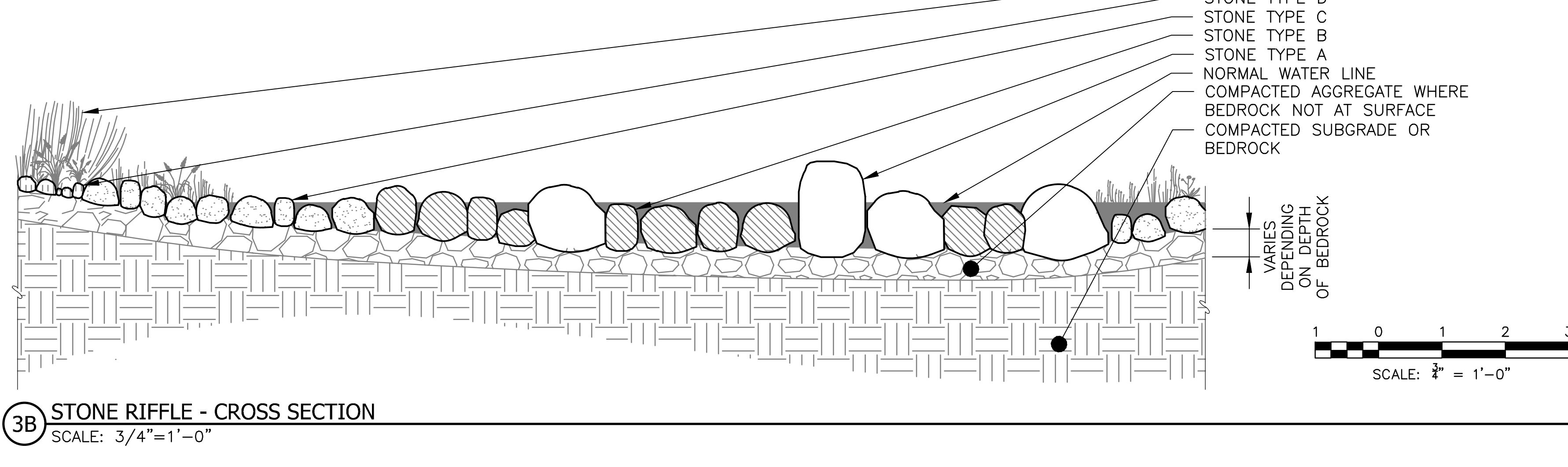
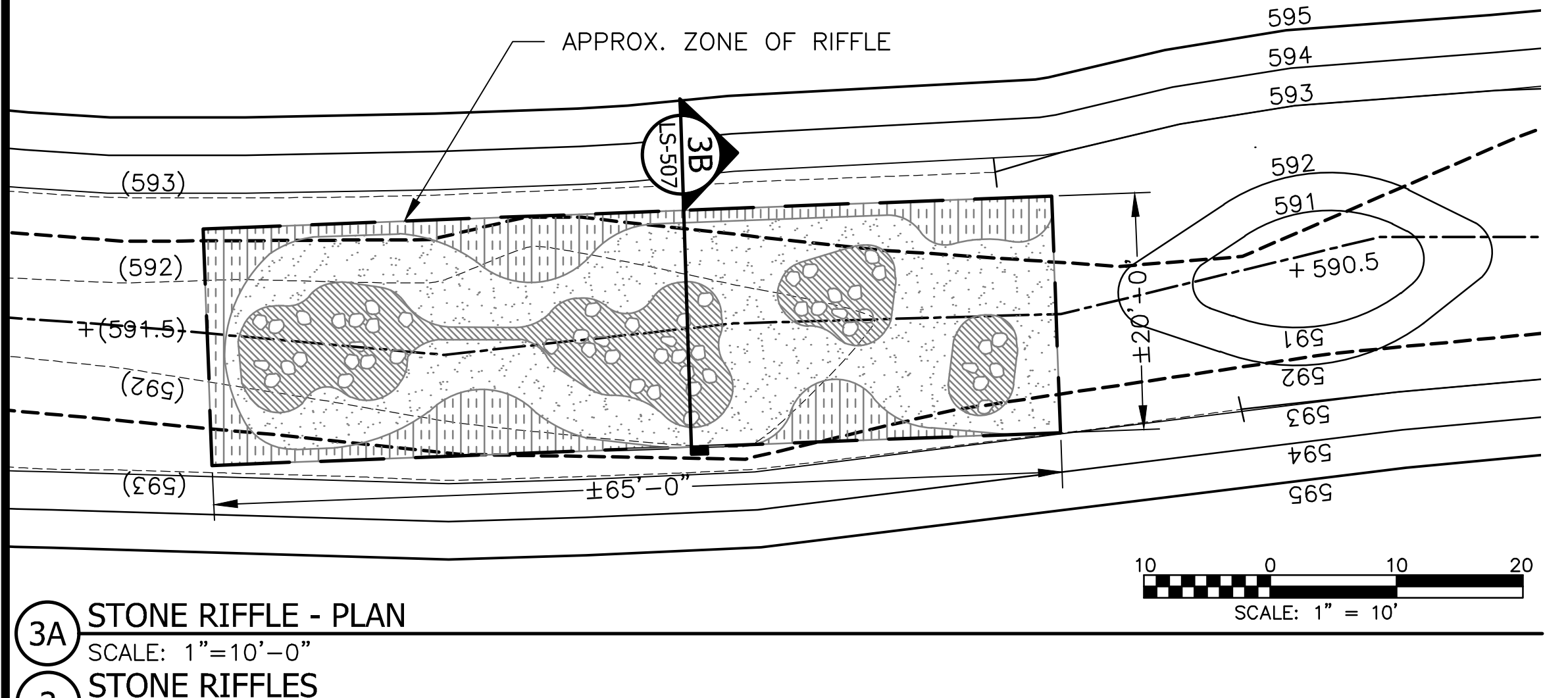
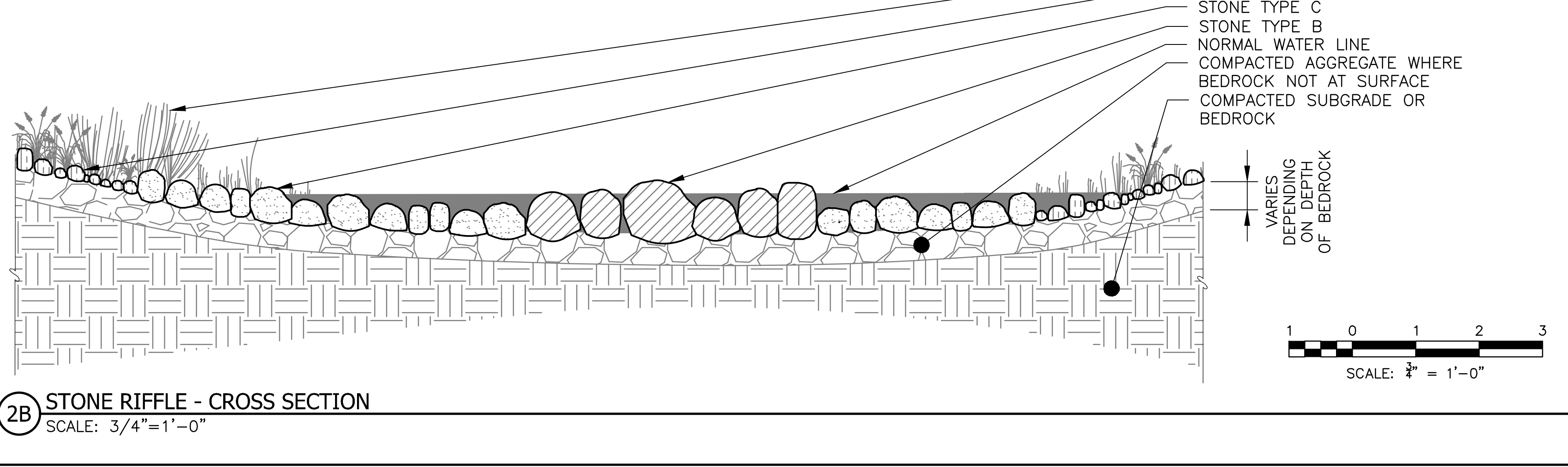
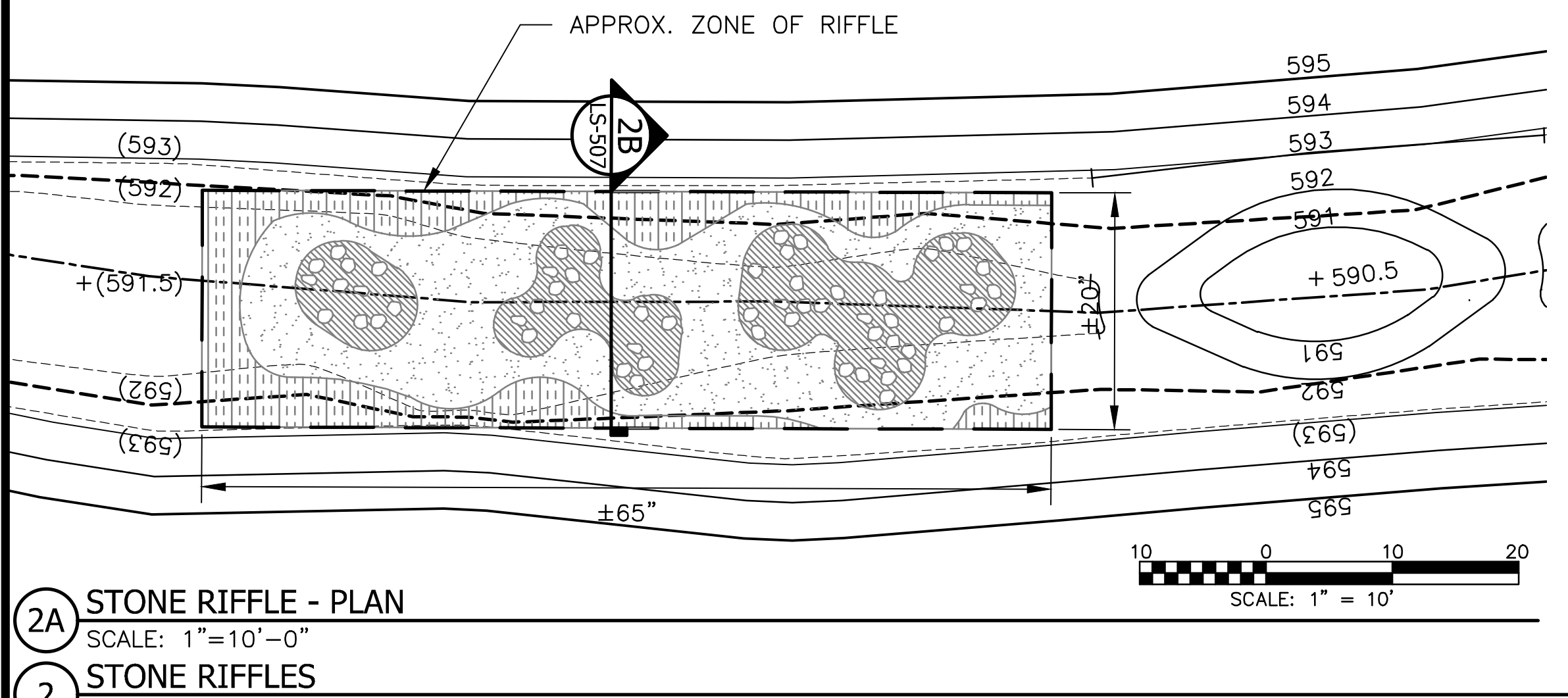
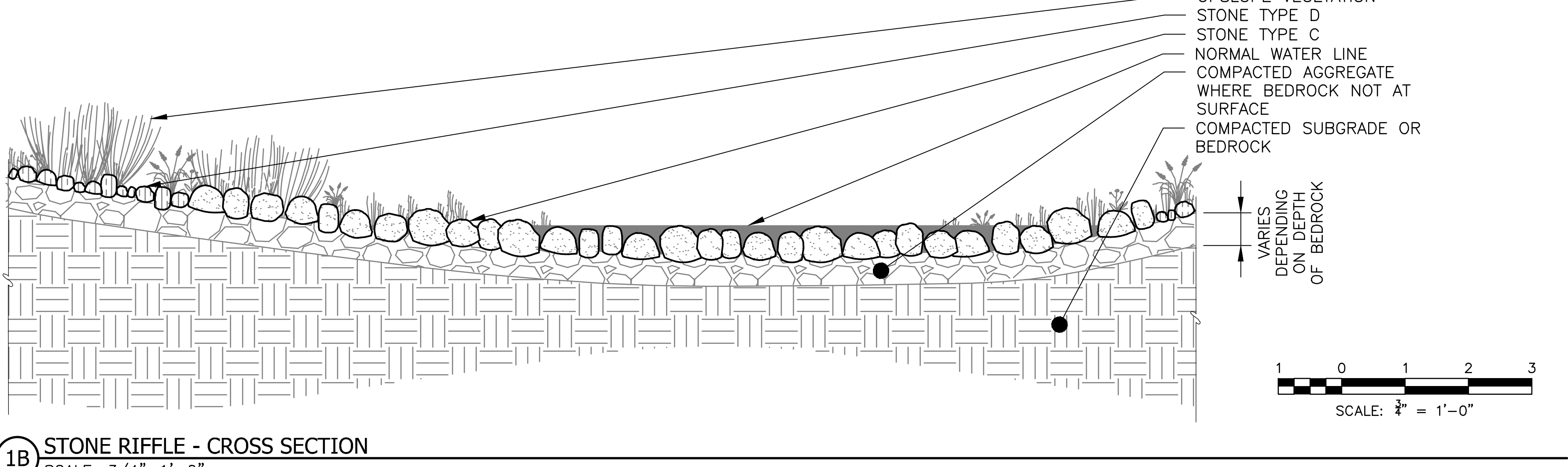
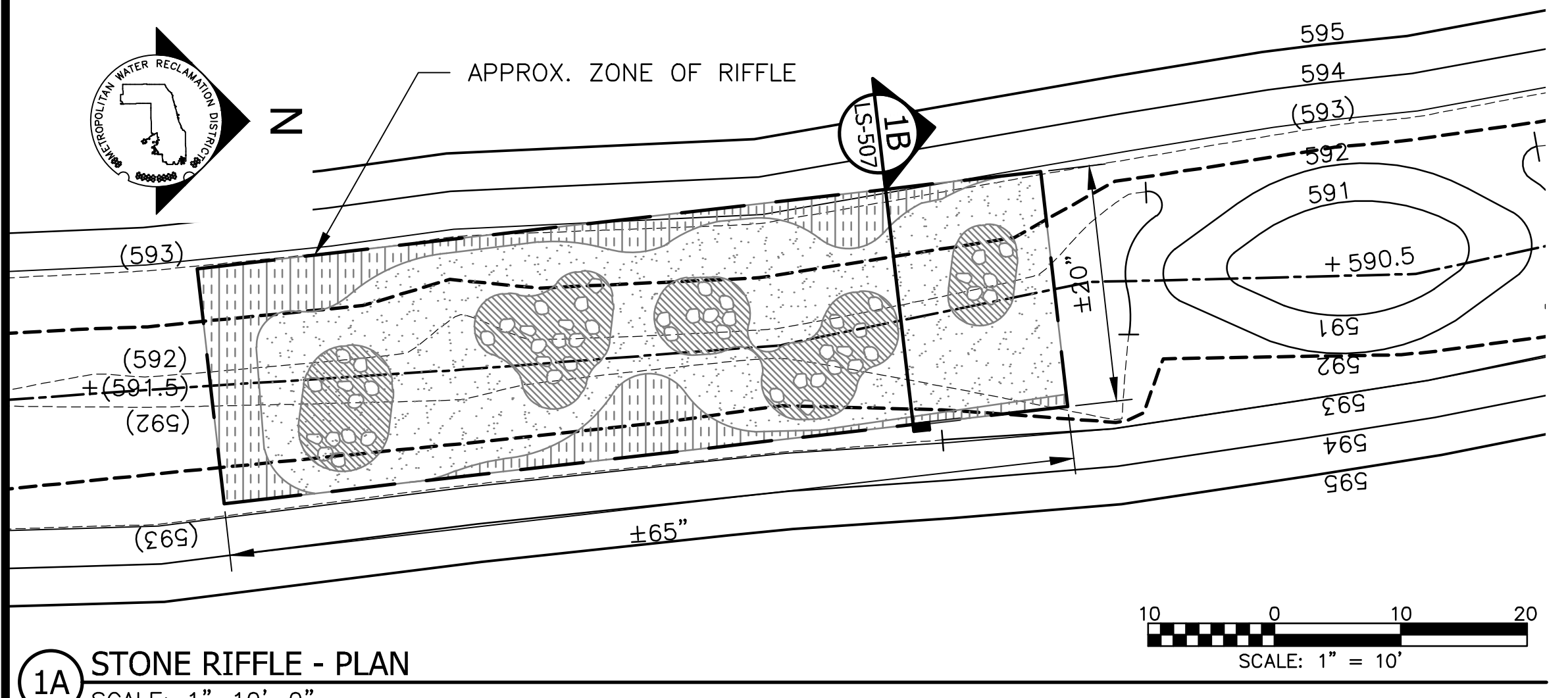
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LS-506

Page Number: 132

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| STONE RIFFLE SCHEDULE | | | | | |
|-----------------------|------------|--------------|-------------|--------------|--------------------------|
| KEY | STONE TYPE | STONE LENGTH | STONE WIDTH | STONE HEIGHT | NOTES |
| | A | 9" - 18" | 9" - 18" | 9" - 18" | 10 - 15% OF TOTAL VOLUME |
| | B | 6" - 9" | 6" - 9" | 6" - 9" | 10 - 15% OF TOTAL VOLUME |
| | C | 3" - 6" | 3" - 6" | 3" - 6" | 50% OF TOTAL VOLUME |
| | D | 1/2" - 3" | 1/2" - 3" | 1/2" - 3" | 20 - 30% OF TOTAL VOLUME |

- NOTE:**
- CONFIRM LIMITS OF THE ZONE OF STONE RIFFLE IN THE FIELD BASED ON EXISTING SUBGRADE CONDITIONS AND PROPOSED GRADING.
 - SET STONES ON BEDROCK WHEN SURFACE CONDITIONS ALLOW. IF BEDROCK IS TOO LOW TO ACHIEVE GRADES BELOW SUBGRADE SURFACE, USE COMPACTED AGGREGATE OVER BEDROCK.

- LEGEND:**
- CHANNEL MEAN ELEV.
 - [Pattern] BOULDER TYPE A
 - [Pattern] BOULDER TYPE B
 - [Pattern] BOULDER TYPE C
 - [Pattern] BOULDER TYPE D

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OF GREATER CHICAGO

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DATE: MAY 2024
SCALE: AS SHOWN

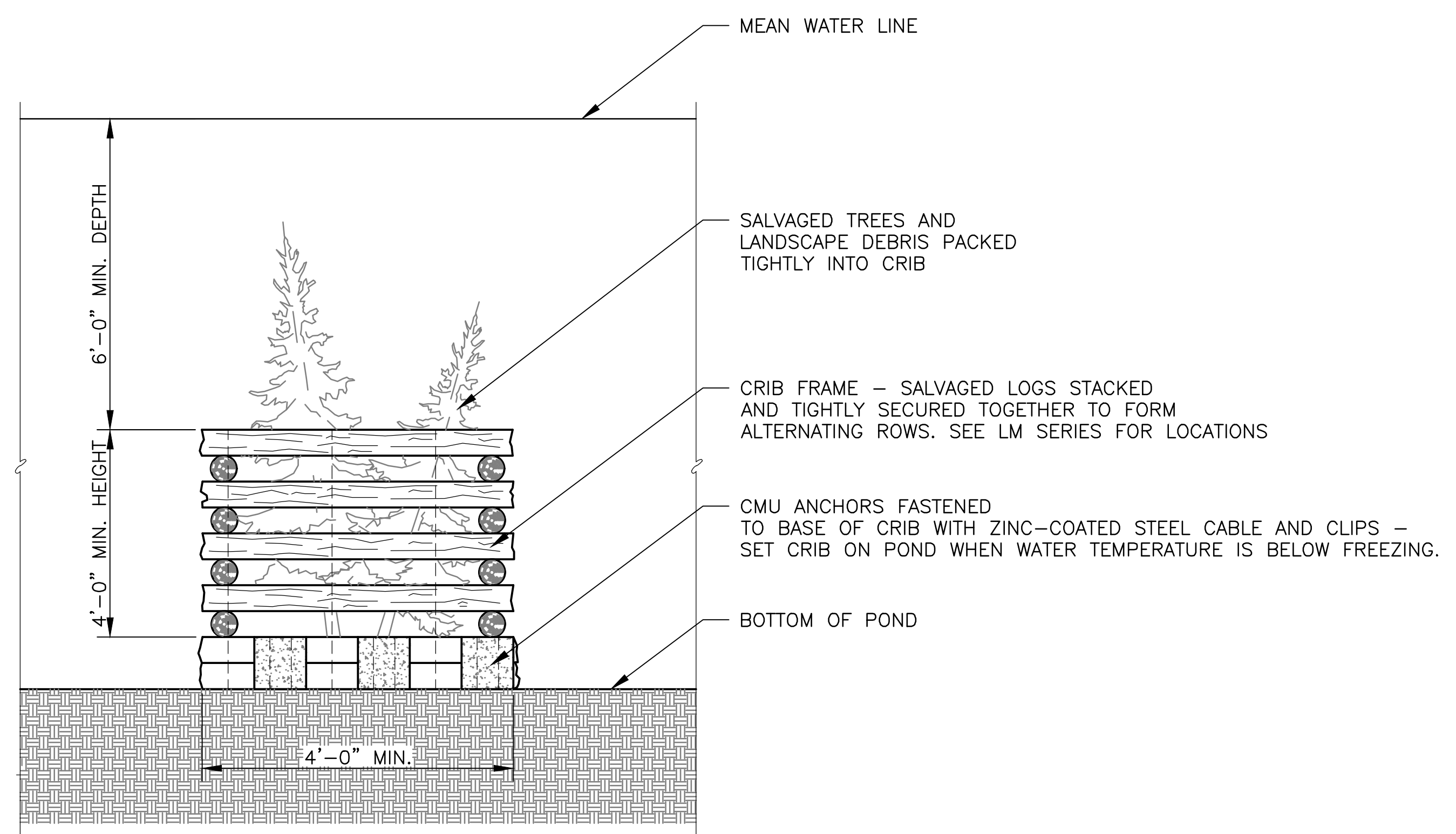
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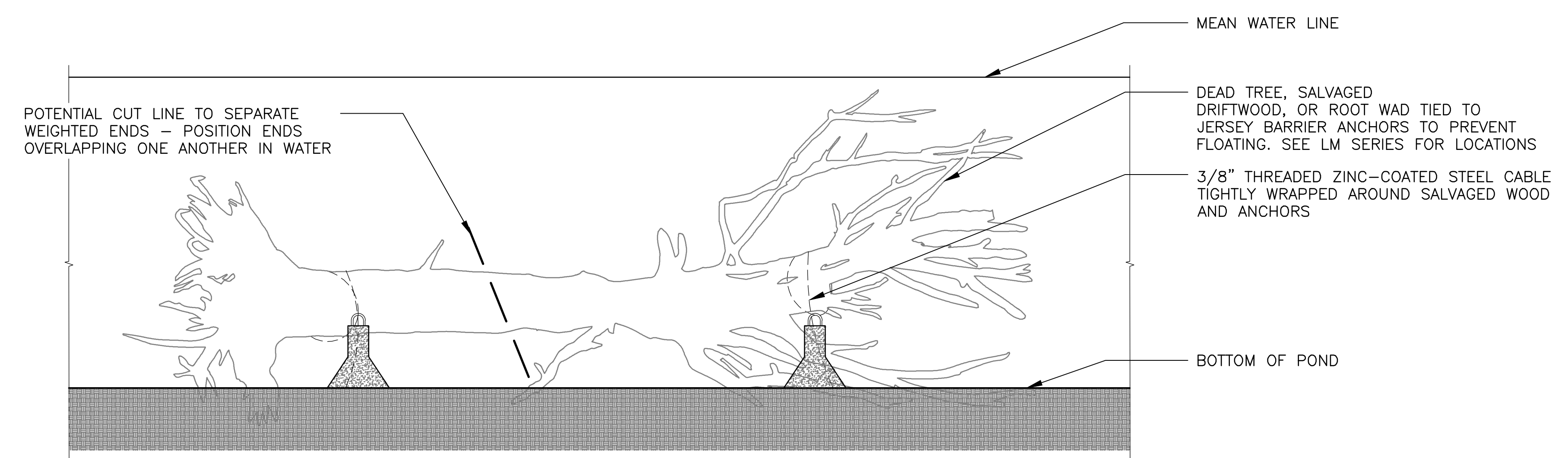
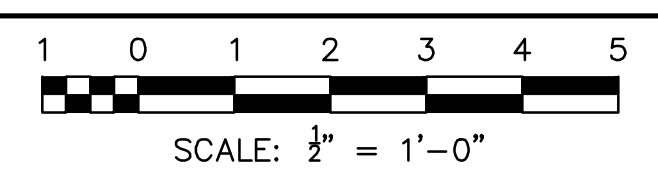
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CONTRACT 14-253-5FR
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
LITTLE CALUMET RIVER WATERSHED
STONE RIFFLE DETAILS

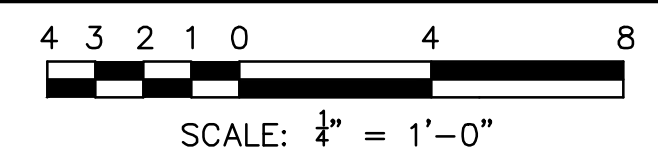
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1 FISH CRIB DETAIL
 SCALE: 1/2" = 1'-0"



2 ANCHORED TREE DETAIL
 SCALE: 1/4" = 1'-0"



**METROPOLITAN WATER RECLAMATION DISTRICT
 OF GREATER CHICAGO**

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REVIEWED BY: LH
DATE: MAY 2024

SCALES: AS SHOWN

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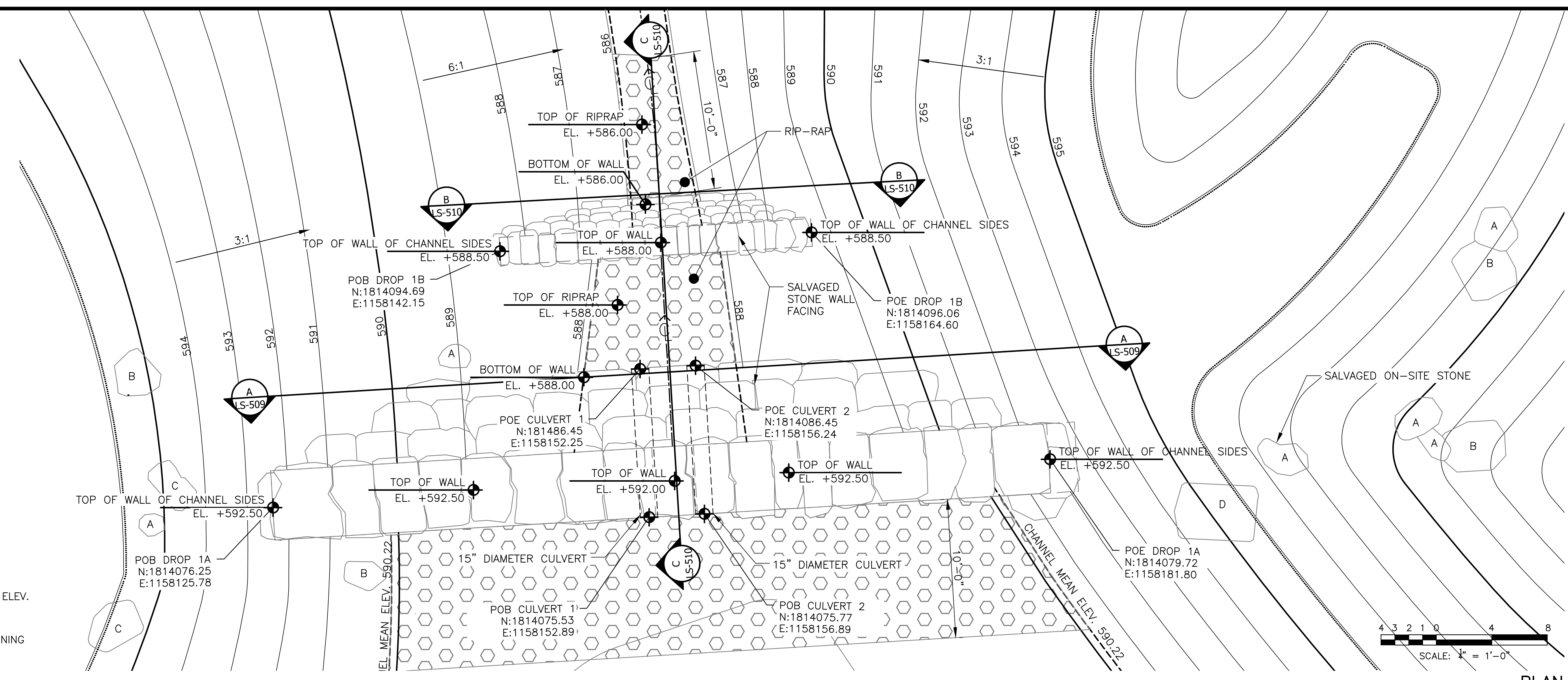
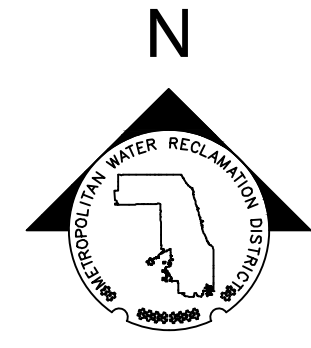
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CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
FISH HABITAT DETAILS

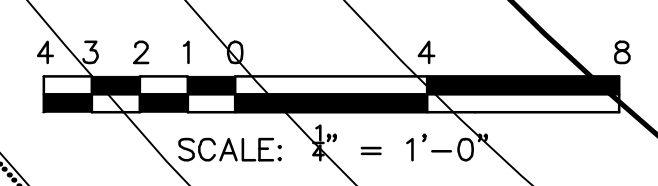
Sheet Number:
LS-508
 Page Number: 134

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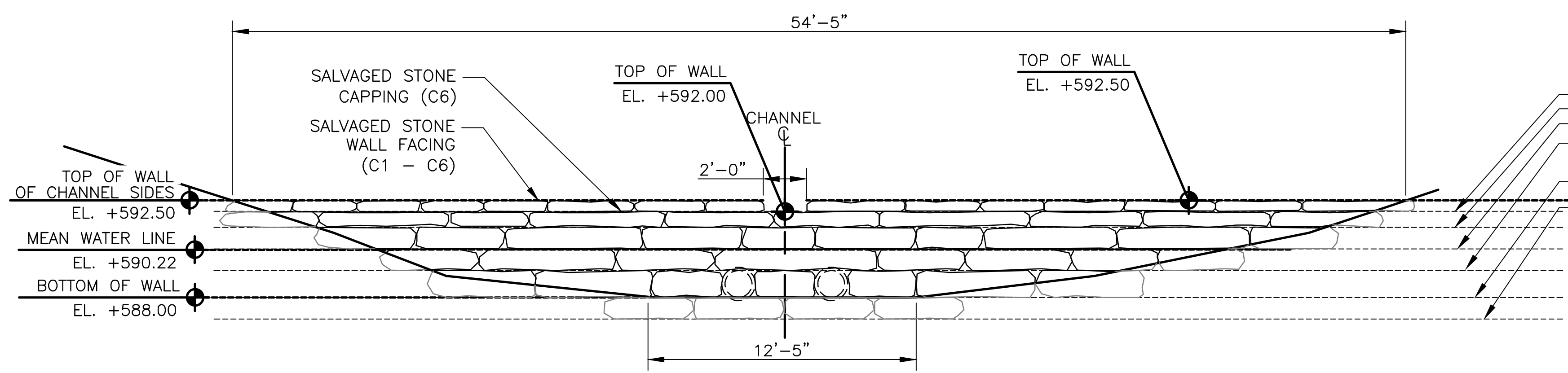


- LEGEND:**
- CHANNEL MEAN ELEV.
 - RIP RAP
 - POB POINT OF BEGINNING
 - POE POINT OF END

1 CHANNEL DROP #1
 SCALE: 1"=4'-0"



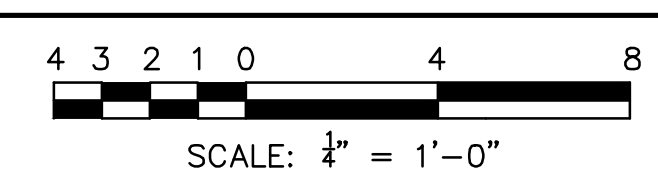
PLAN



ELEVATION A - A
 SCALE: 1"=4'-0"

| DROP #1 - COURSE SCHEDULE OF ELEVATION A-A | | | | |
|--|----------------|----------------|------------------|------------|
| COURSE NAME | COURSE LENGTH | COURSE DEPTH | COURSE THICKNESS | NOTES |
| COURSE 1 (C1) | 2'-0" TO 4'-0" | 2'-0" TO 4'-0" | 1'-0" | MORTAR SET |
| COURSE 2 (C2) | 2'-0" TO 4'-0" | 2'-0" TO 4'-0" | 1'-3" | MORTAR SET |
| COURSE 3 (C3) | 4'-0" TO 6'-0" | 2'-0" TO 4'-0" | 1'-0" | MORTAR SET |
| COURSE 4 (C4) | 2'-0" TO 4'-0" | 2'-0" TO 4'-0" | 1'-0" | MORTAR SET |
| COURSE 5 (C5) | 4'-0" TO 6'-0" | 2'-0" TO 4'-0" | 0'-8" | MORTAR SET |
| COURSE 6 (C6) | 2'-0" TO 3'-0" | 2'-0" TO 4'-0" | 0'-6" | MORTAR SET |

DETAIL NOTES:
 1. REFERENCE COORDINATE TABLES FOR ALL DROP STRUCTURES.



| DISTRIBUTED STONE BOULDER SCHEDULE | | | | | |
|------------------------------------|----------|----------------|----------------|----------------|--------------------------------|
| BOULDER TYPE | QUANTITY | BOULDER LENGTH | BOULDER WIDTH | BOULDER HEIGHT | NOTES |
| A | 6 | 2'-0" TO 3'-0" | 2'-0" TO 3'-0" | 1'-6" TO 2'-0" | ROUGH HEWN AND SOURCED ON-SITE |
| B | 4 | 3'-0" TO 4'-0" | 3'-0" TO 4'-0" | 2'-0" TO 2'-6" | ROUGH HEWN AND SOURCED ON-SITE |
| C | 1 | 4'-0" TO 5'-0" | 4'-0" TO 5'-0" | 1'-6" TO 2'-0" | ROUGH HEWN AND SOURCED ON-SITE |
| D | 1 | 5'-0" TO 6'-0" | 5'-0" TO 6'-0" | 1'-6" TO 2'-0" | ROUGH HEWN AND SOURCED ON-SITE |

| CHANNEL DROP #1 - LAYOUT COORDINATES - VERIFY FIELD PLACEMENT | | |
|---|------------|------------|
| COORDINATE | NORTHING | EASTING |
| POB DROP 1A | 1814076.25 | 1158125.78 |
| POE DROP 1A | 1814079.72 | 1158181.80 |
| POB DROP 1B | 1814094.69 | 1158142.15 |
| POE DROP 1B | 1814096.06 | 1158164.60 |

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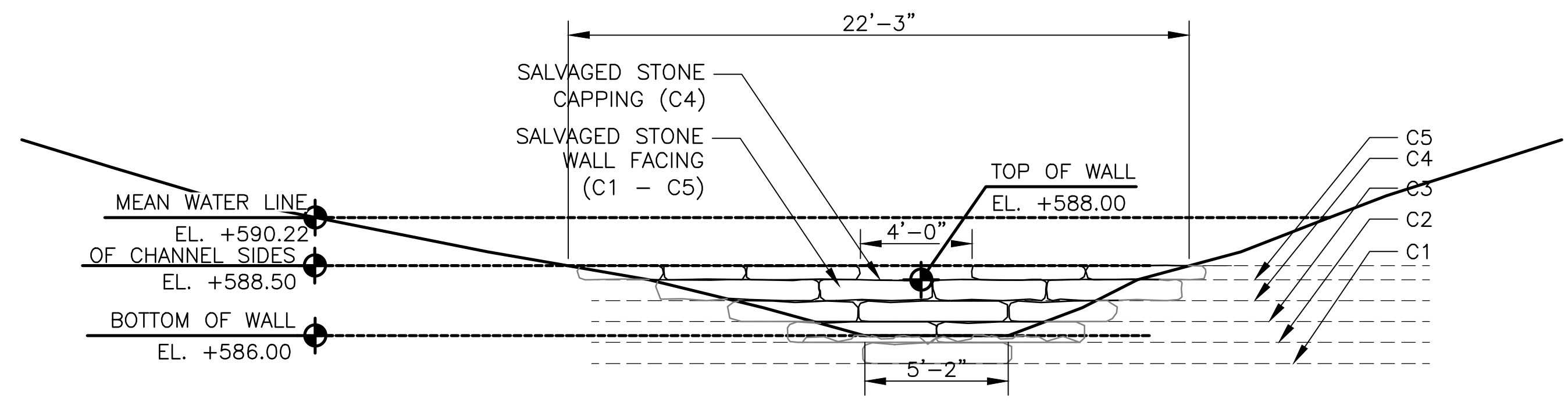
METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
STORMWATER DETAILS (DROP 1)

DESIGNED BY: LH
CHECKED BY: LH
DRAWN BY: LH
DATE: MAY 2024

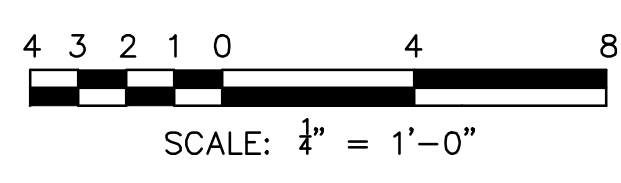
REVIEWED BY: LH
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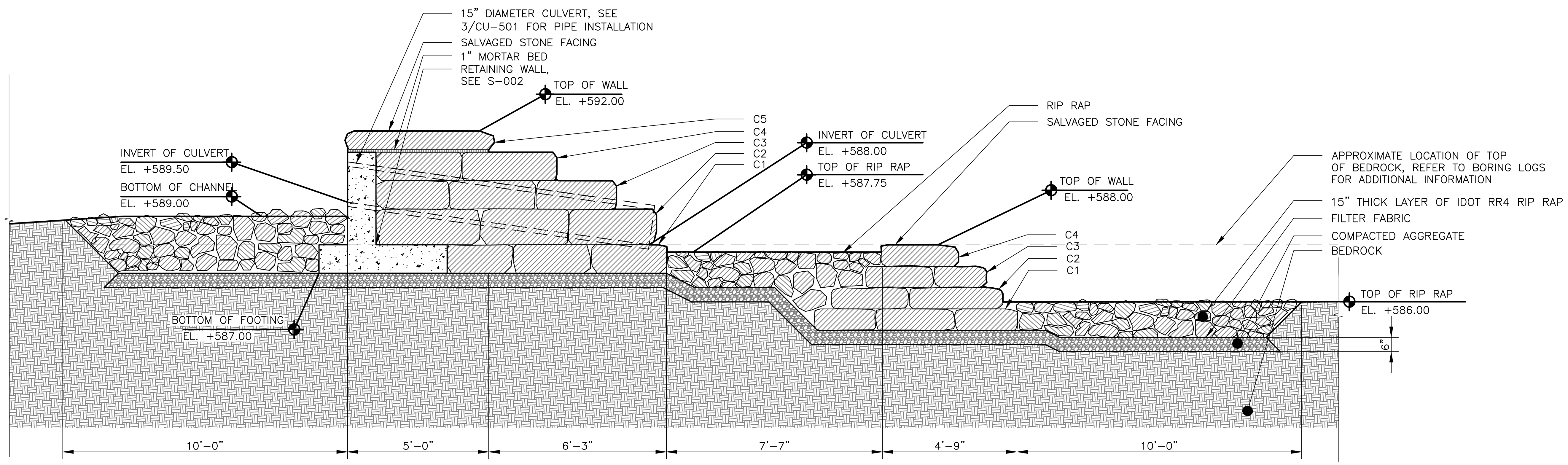
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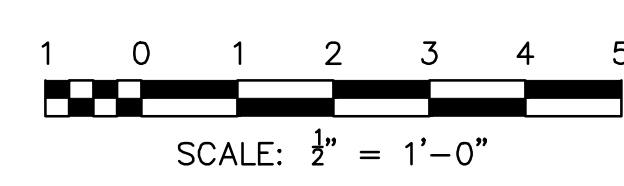
ELEVATION B - B
 SCALE: 1/4" = 1'-0"



| DROP #1 - COURSE SCHEDULE OF ELEVATION B - B | | | | |
|--|----------------|----------------|------------------|------------|
| COURSE NAME | COURSE LENGTH | COURSE DEPTH | COURSE THICKNESS | NOTES |
| COURSE 1 (C1) | 4'-0" TO 6'-0" | 2'-0" TO 4'-0" | 0'-9" | MORTAR SET |
| COURSE 2 (C2) | 4'-0" TO 6'-0" | 2'-0" TO 4'-0" | 0'-9" | MORTAR SET |
| COURSE 3 (C3) | 4'-0" TO 6'-0" | 2'-0" TO 4'-0" | 0'-9" | MORTAR SET |
| COURSE 4 (C4) | 4'-0" TO 6'-0" | 2'-0" TO 4'-0" | 0'-9" | MORTAR SET |
| COURSE 5 (C5) | 2'-0" TO 4'-0" | 2'-0" TO 4'-0" | 0'-6" | MORTAR SET |



SECTION C - C
 SCALE: 1/2" = 1'-0"



METROPOLITAN WATER RECLAMATION DISTRICT
 OF GREATER CHICAGO

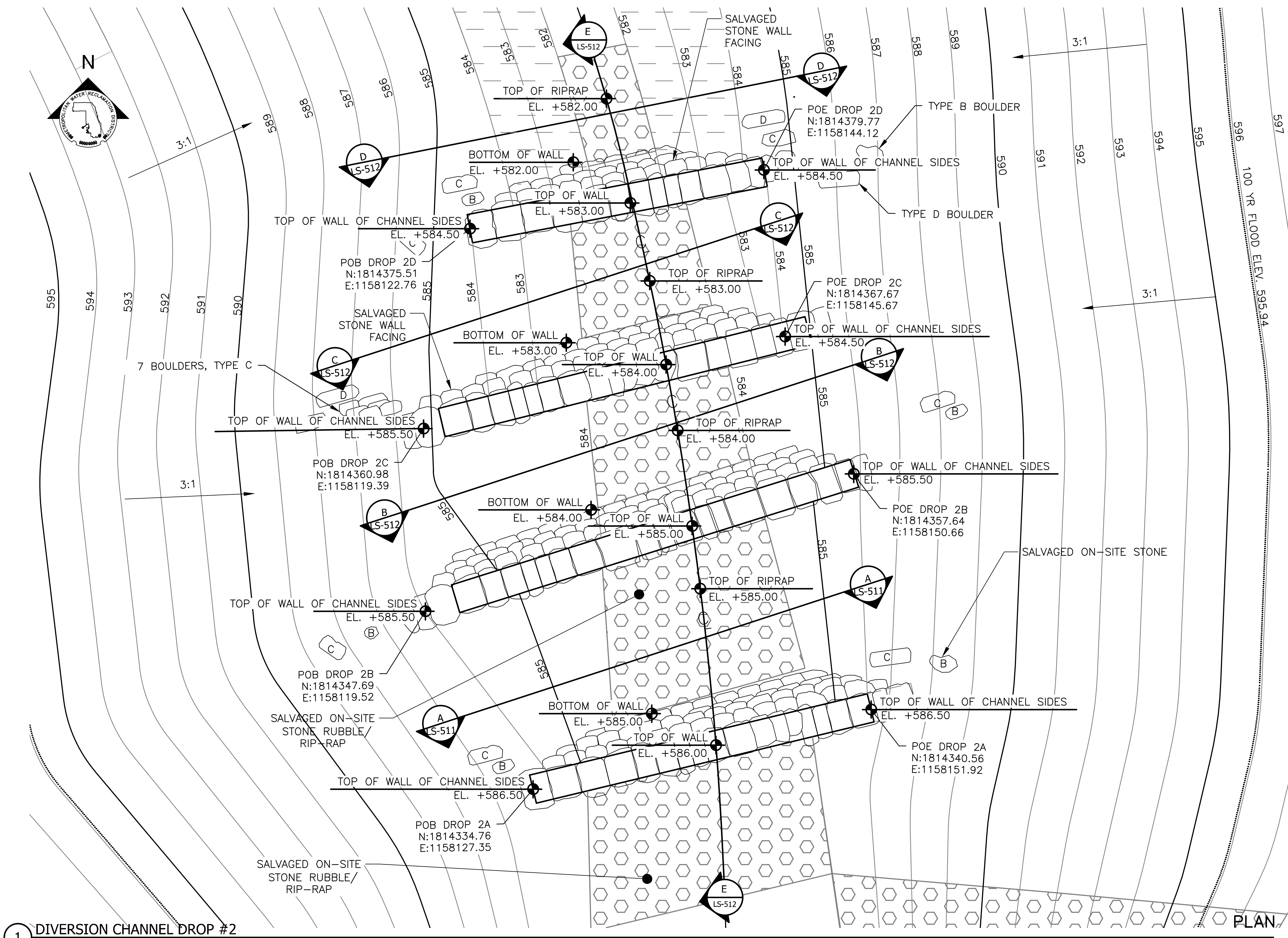
DONOHUE
 CONSULTING ENGINEERS
 ACCURATE
 ENGINEERS

Designed by: LH
 Checked by: LH
 Drawn by: LH
 Reviewed by: LH
 Date: MAY 2024
 Scale: AS SHOWN

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
STORMWATER DETAILS (DROP 1)

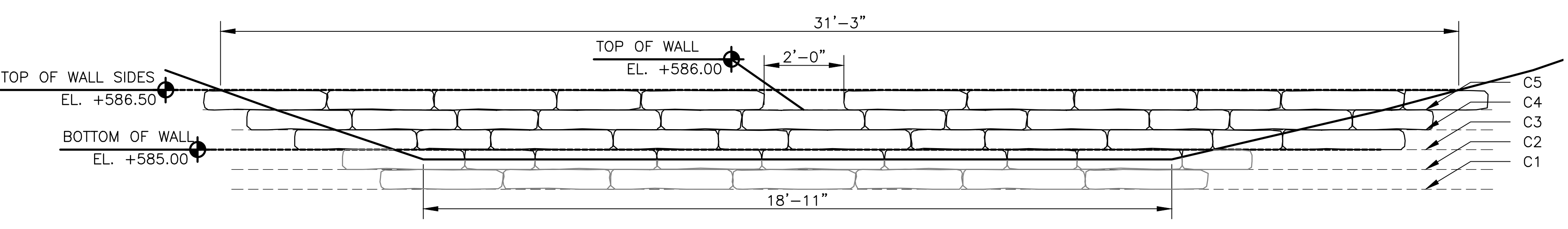
Sheet Number:
LS-510
 Page Number: 136

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 PLOT DATE: 8/13/2024 11:53 AM PLOTTED BY: HANNAH CUSICK



1 DIVERSION CHANNEL DROP #2
 SCALE: 1"=4'-0"

1 ELEVATION A - A
 SCALE: 1"=2'-0"



| BOULDER TYPE | QUANTITY | BOULDER LENGTH | BOULDER WIDTH | BOULDER HEIGHT | NOTES |
|--------------|----------|----------------|----------------|----------------|--------------------------------|
| A | 0 | 2'-0" TO 3'-0" | 2'-0" TO 3'-0" | 1'-6" TO 2'-0" | ROUGH HEWN AND SOURCED ON-SITE |
| B | 6 | 3'-0" TO 4'-0" | 3'-0" TO 4'-0" | 2'-0" TO 2'-6" | ROUGH HEWN AND SOURCED ON-SITE |
| C | 13 | 4'-0" TO 5'-0" | 4'-0" TO 5'-0" | 1'-6" TO 2'-0" | ROUGH HEWN AND SOURCED ON-SITE |
| D | 3 | 5'-0" TO 6'-0" | 5'-0" TO 6'-0" | 1'-6" TO 2'-0" | ROUGH HEWN AND SOURCED ON-SITE |

LEGEND:

- CHANNEL MEAN ELEV.
- ▨ RIP RAP
- ▨ STONE ARMORING
- POB POINT OF BEGINNING
- POE POINT OF END

| CORDINATE | NORTHING | EASTING |
|-------------|------------|------------|
| POB DROP 2A | 1814334.76 | 1158127.35 |
| POE DROP 2A | 1814340.56 | 1158151.92 |
| POB DROP 2B | 1814347.69 | 1158119.52 |
| POE DROP 2B | 1814357.64 | 1158150.66 |
| POB DROP 2C | 1814360.98 | 1158119.39 |
| POE DROP 2C | 1814367.67 | 1158145.67 |
| POB DROP 2D | 1814375.51 | 1158122.76 |
| POE DROP 2D | 1814379.77 | 1158144.12 |

| COURSE NAME | COURSE LENGTH | COURSE DEPTH | COURSE THICKNESS | NOTES |
|---------------|----------------|----------------|------------------|------------|
| COURSE 1 (C1) | 2'-0" TO 4'-0" | 2'-0" TO 4'-0" | 0'-6" | MORTAR SET |
| COURSE 2 (C2) | 1'-0" TO 3'-0" | 2'-0" TO 4'-0" | 0'-6" | MORTAR SET |
| COURSE 3 (C3) | 1'-0" TO 3'-0" | 2'-0" TO 4'-0" | 0'-6" | MORTAR SET |
| COURSE 4 (C4) | 1'-0" TO 3'-0" | 2'-0" TO 4'-0" | 0'-6" | MORTAR SET |
| COURSE 5 (C5) | 2'-0" TO 4'-0" | 2'-0" TO 4'-0" | 0'-6" | MORTAR SET |

LEGEND:

- CHANNEL MEAN ELEV.
- ▨ RIP RAP
- POB POINT OF BEGINNING
- POE POINT OF END

| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| 1 | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT
 OF GREATER CHICAGO

Designed by: LH
 Checked by: LH
 Drawn by: LH
 Reviewed by: LH
 Date: MAY 2024
 Scale: AS SHOWN

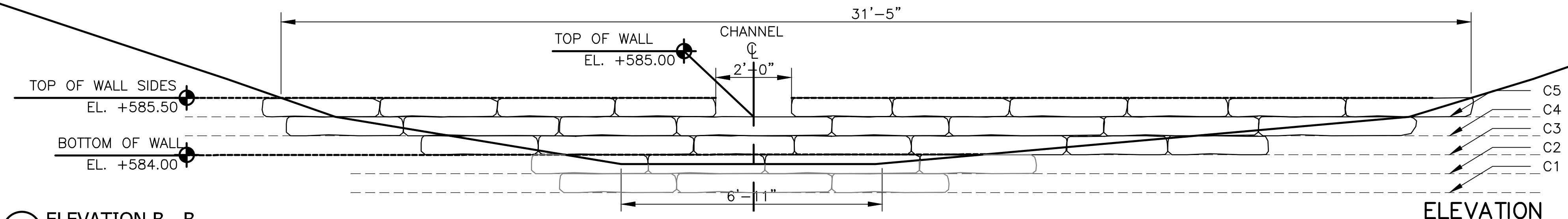
DONOHUE
 CONSULTING ENGINEERS

Accurate
 CONSULTING ENGINEERS

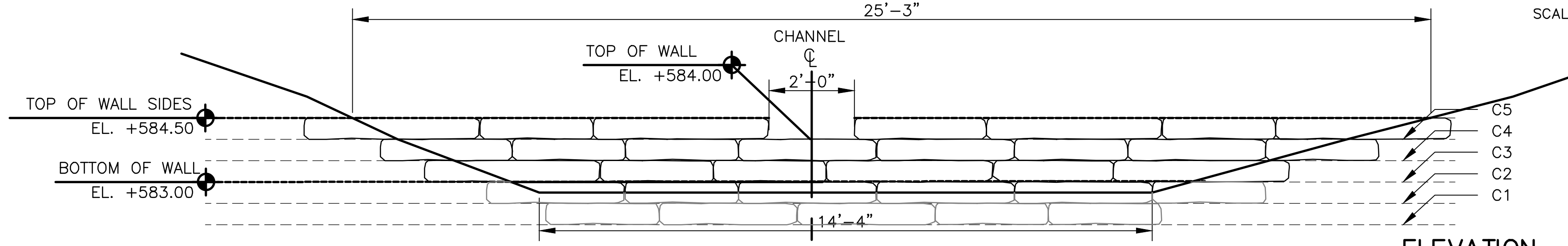
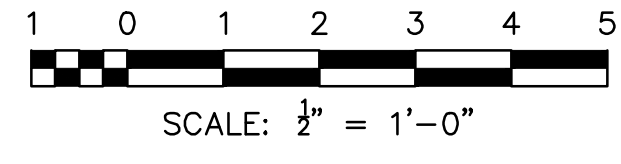
LIVING HABITATS

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
STORMWATER DETAILS (DROP 2)

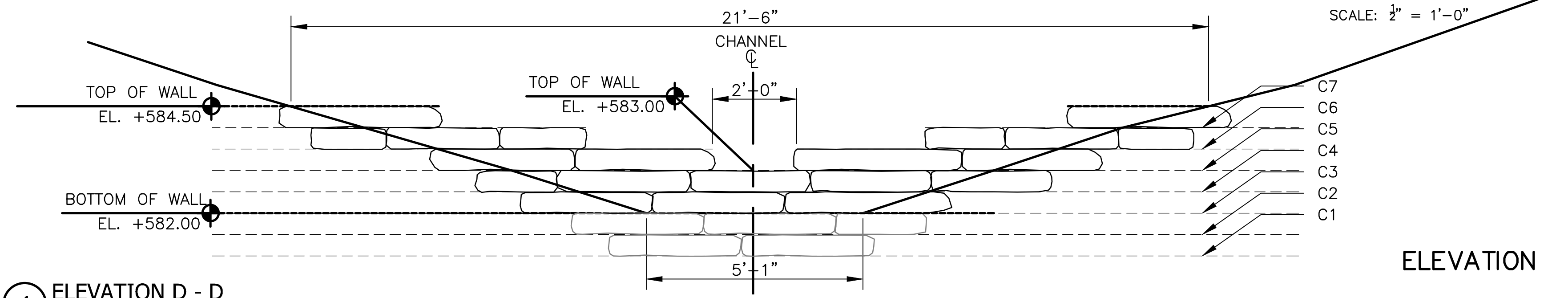
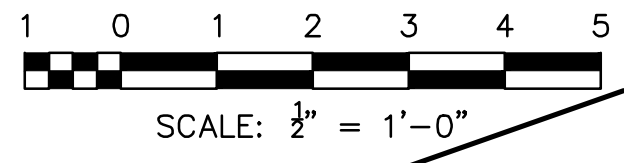
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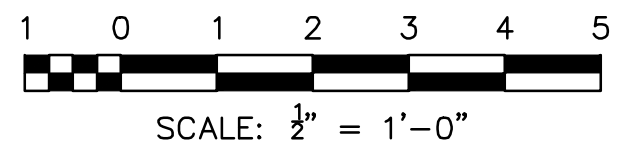
2 ELEVATION B - B
 SCALE: 1"=2'-0"



3 ELEVATION C - C
 SCALE: 1"=2'-0"



4 ELEVATION D - D
 SCALE: 1"=2'-0"

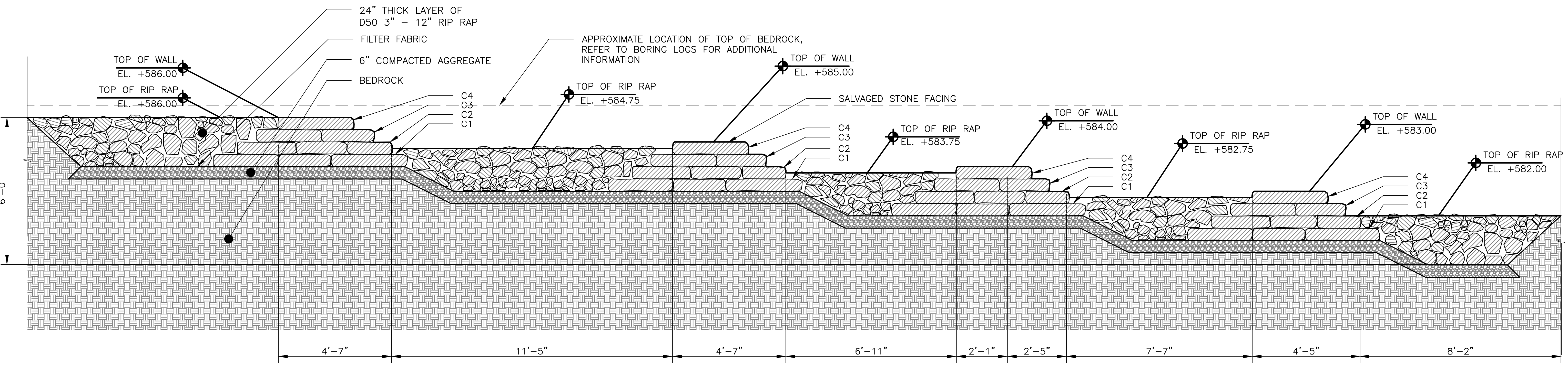


DROP #2 - COURSE SCHEDULE OF ELEVATION B-B & C-C

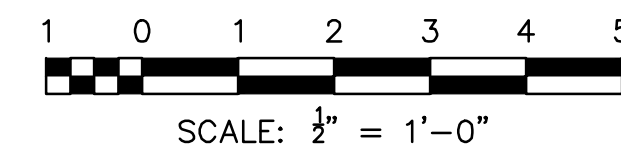
| COURSE NAME | COURSE LENGTH | COURSE DEPTH | COURSE THICKNESS | NOTES |
|---------------|----------------|----------------|------------------|------------|
| COURSE 1 (C1) | 3'-0" TO 4'-0" | 2'-0" TO 4'-0" | 0'-6" | MORTAR SET |
| COURSE 2 (C2) | 1'-0" TO 3'-0" | 2'-0" TO 4'-0" | 0'-6" | MORTAR SET |
| COURSE 3 (C3) | 1'-0" TO 3'-0" | 2'-0" TO 4'-0" | 0'-6" | MORTAR SET |
| COURSE 4 (C4) | 3'-0" TO 4'-0" | 2'-0" TO 4'-0" | 0'-6" | MORTAR SET |
| COURSE 5 (C5) | 3'-0" TO 4'-0" | 2'-0" TO 4'-0" | 0'-6" | MORTAR SET |

DROP #2 - COURSE SCHEDULE OF ELEVATION D-D

| COURSE NAME | COURSE LENGTH | COURSE DEPTH | COURSE THICKNESS | NOTES |
|---------------|----------------|----------------|------------------|------------|
| COURSE 1 (C1) | 2'-0" TO 3'-0" | 2'-0" TO 4'-0" | 0'-6" | MORTAR SET |
| COURSE 2 (C2) | 2'-0" TO 3'-0" | 2'-0" TO 4'-0" | 0'-6" | MORTAR SET |
| COURSE 3 (C3) | 3'-0" TO 4'-0" | 2'-0" TO 4'-0" | 0'-6" | MORTAR SET |
| COURSE 4 (C4) | 2'-0" TO 3'-0" | 2'-0" TO 4'-0" | 0'-6" | MORTAR SET |
| COURSE 5 (C5) | 3'-0" TO 4'-0" | 2'-0" TO 4'-0" | 0'-6" | MORTAR SET |
| COURSE 6 (C6) | 2'-0" TO 3'-0" | 2'-0" TO 4'-0" | 0'-6" | MORTAR SET |
| COURSE 7 (C7) | 2'-0" TO 3'-0" | 2'-0" TO 4'-0" | 0'-6" | MORTAR SET |



5 SECTION E - E
 SCALE: 1"=2'-0"



| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| 1 | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

Designed by: LH
 Checked by: LH
 Drawn by: LH
 Reviewed by: LH
 Date: MAY 2024
 Scale: AS SHOWN

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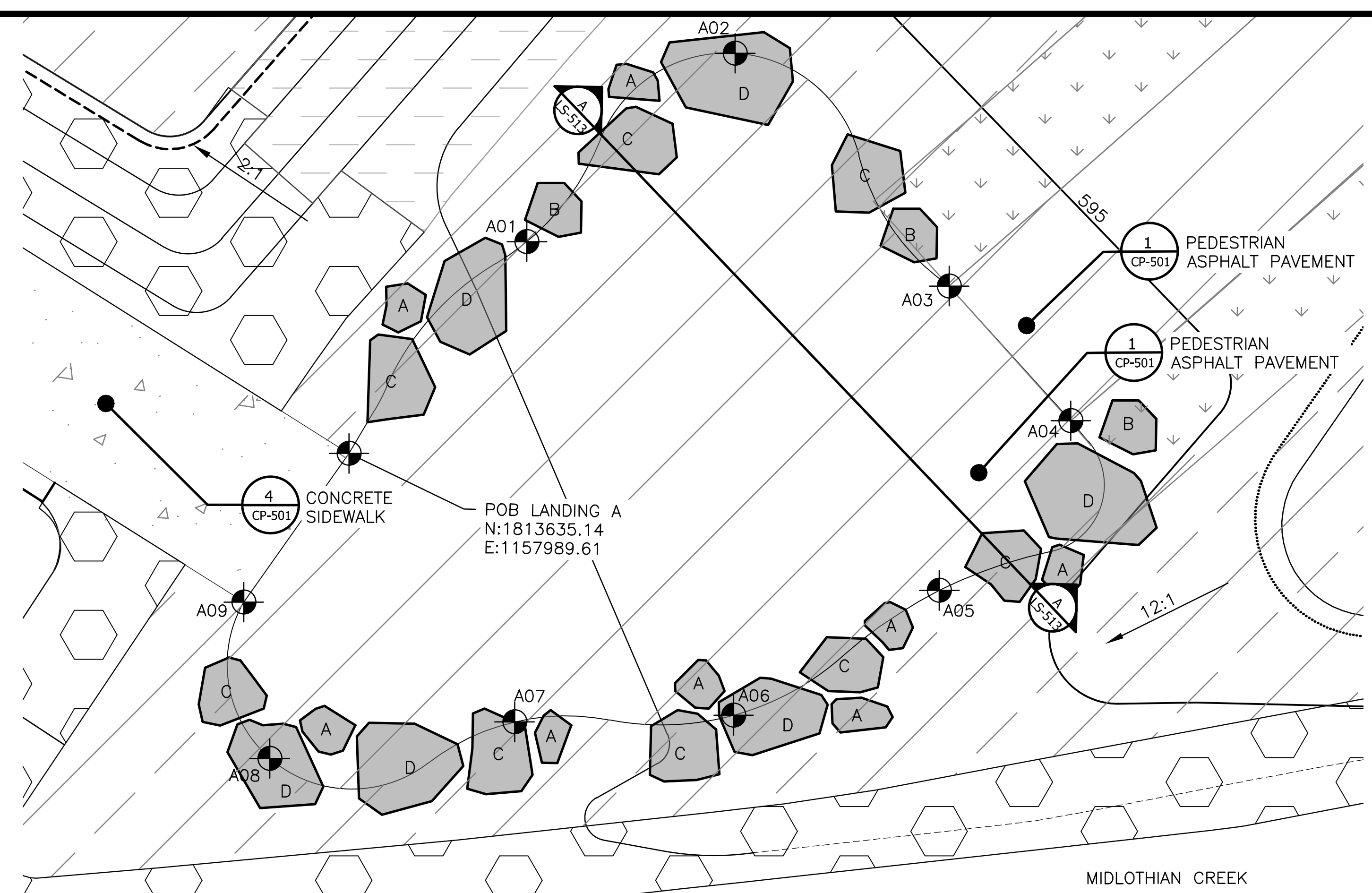
ZIM
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 CONSULTING ENGINEERS

LIVING HABITATS

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
STORMWATER DETAILS (DROP 2)

P:\16-105_Robbins Park - MWRD\04_CAD\14-253-3F\landscape\Sheets\14-253-BF-LS-513.dwg 1/29/2024 5:19 PM
 PLOT DATE: 8/13/2024 11:54 AM PLOTTED BY: HANNAH CUSICK



1 LANDING - A
 SCALE: 1"=4'-0"
 SCALE: 1/4" = 1'-0"

LANDING A - LAYOUT COORDINATES - VERIFY FIELD PLACEMENT

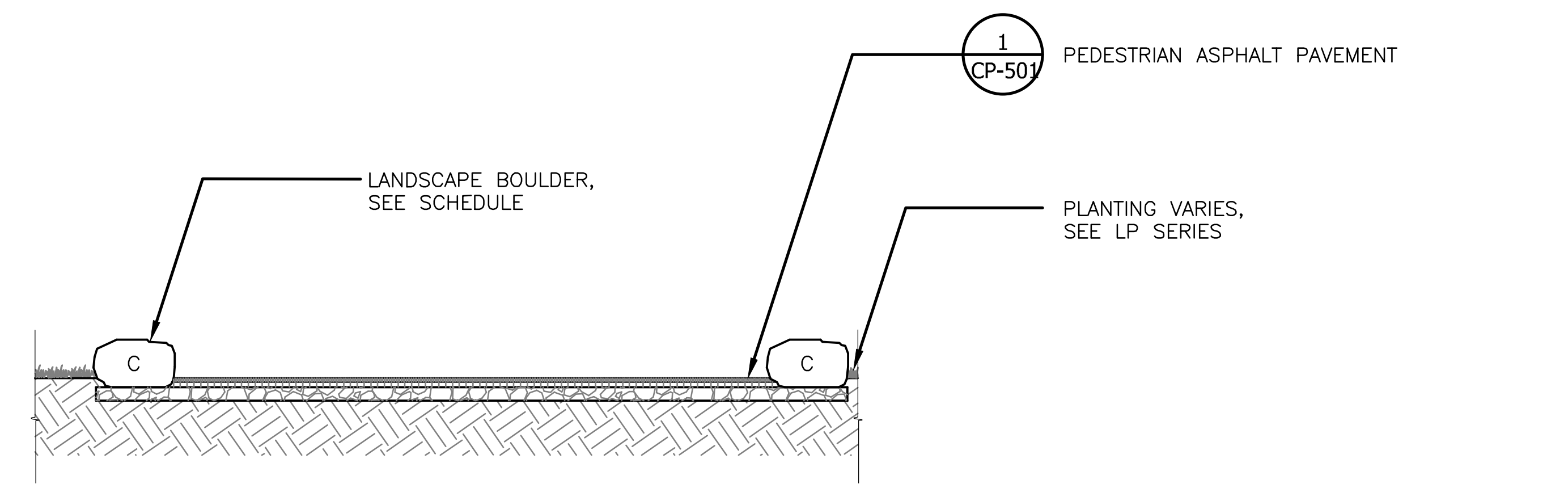
| COORDINATE | NORTHING | EASTING |
|---------------|------------|------------|
| POB LANDING A | 1813635.14 | 1157989.61 |
| A01 | 1813644.48 | 1157997.45 |
| A02 | 1813652.78 | 1158006.64 |
| A03 | 1813642.52 | 1158016.07 |
| A04 | 1813636.59 | 1158021.43 |
| A05 | 1813629.10 | 1158015.64 |
| A06 | 1813623.60 | 1158006.56 |
| A07 | 1813623.31 | 1157996.91 |
| A08 | 1813621.70 | 1157986.11 |
| A09 | 1813628.59 | 1157984.96 |

LANDING B - LAYOUT COORDINATES - VERIFY FIELD PLACEMENT

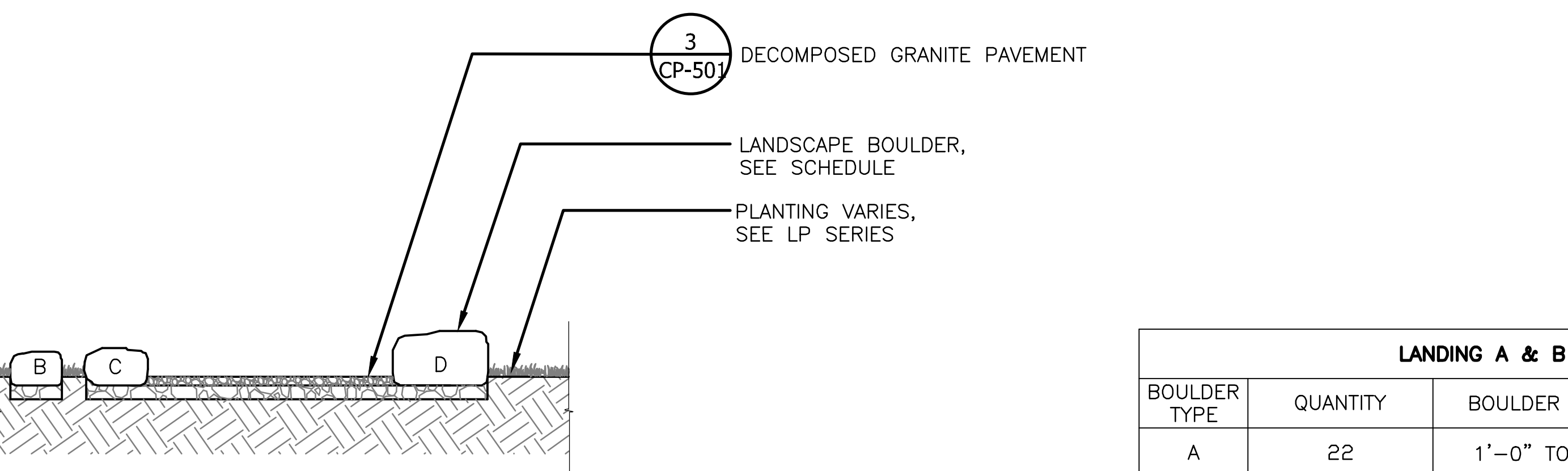
| COORDINATE | NORTHING | EASTING |
|---------------|------------|------------|
| POB LANDING B | 1814055.46 | 1158710.79 |
| B01 | 1814055.46 | 1158708.40 |
| B02 | 1814059.28 | 1158694.89 |
| B03 | 1814060.18 | 1158682.22 |
| B04 | 1814061.79 | 1158761.25 |
| B05 | 1814068.98 | 1158670.08 |
| B06 | 1814074.02 | 1158672.11 |
| B07 | 1814073.73 | 1158682.85 |
| B08 | 1814074.33 | 1158699.71 |
| B09 | 1814074.37 | 1158708.21 |
| B10 | 1814068.21 | 1158711.26 |

LEGEND:

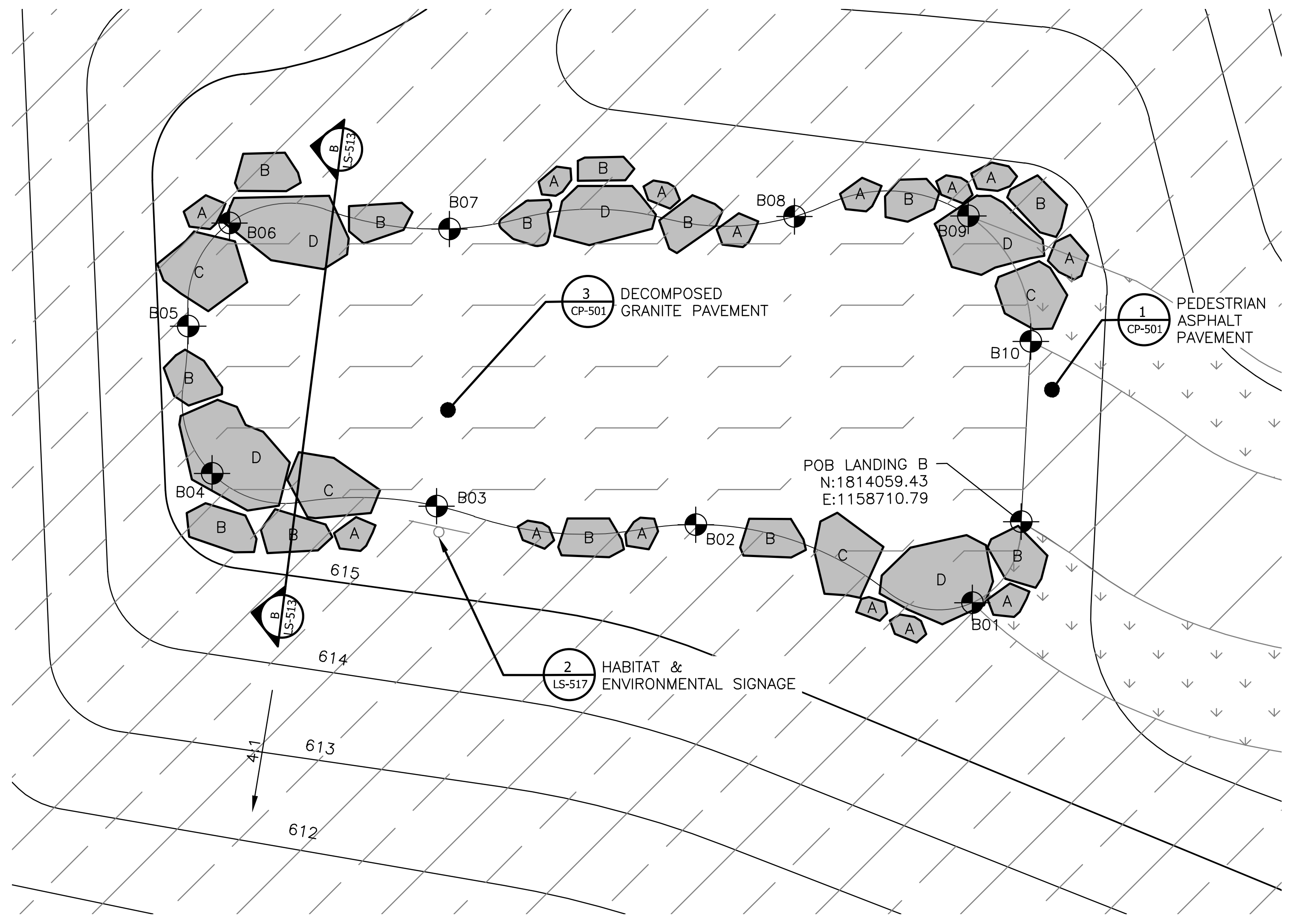
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- [Pattern] ASPHALT PAVEMENT - PEDESTRIAN
- [Pattern] RIP RAP, REFERENCE 2/LS-501
- [Pattern] CIP CONCRETE PAVEMENT- PEDESTRIAN
- [Symbol] MOWN TURF
- [Pattern] PLANTED AREA, REFERENCE LP-SERIES
- [Pattern] DECOMPOSED GRANITE
- [Pattern] DREDGE CHANNEL
- [Pattern] STONE ARMORING, REFERENCE 1 & 2/LS-506



3 SECTION A - A
 SCALE: 1"=4'-0"
 SCALE: 1/4" = 1'-0"



4 SECTION B - B
 SCALE: 1"=4'-0"
 SCALE: 1/4" = 1'-0"



2 LANDING - B
 SCALE: 1"=4'-0"
 SCALE: 1/4" = 1'-0"

LANDING A & B - STONE BOULDERS SCHEDULE - VERIFY STONE SELECTION & FIELD PLACEMENT

| BOULDER TYPE | QUANTITY | BOULDER LENGTH | BOULDER WIDTH | BOULDER HEIGHT | NOTES |
|--------------|----------|----------------|----------------|----------------|--------------------------------|
| A | 22 | 1'-0" TO 1'-6" | 1'-0" TO 1'-6" | 1'-6" TO 2'-0" | ROUGH HEWN AND SOURCED ON-SITE |
| B | 16 | 1'-6" TO 2'-6" | 1'-6" TO 2'-6" | 2'-0" TO 2'-6" | ROUGH HEWN AND SOURCED ON-SITE |
| C | 12 | 2'-6" TO 3'-6" | 2'-6" TO 3'-6" | 1'-6" TO 2'-0" | ROUGH HEWN AND SOURCED ON-SITE |
| D | 11 | 3'-6" TO 4'-6" | 3'-6" TO 4'-6" | 1'-6" TO 2'-0" | ROUGH HEWN AND SOURCED ON-SITE |

| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| 1 | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
LANDING DETAILS - A & B

Designed by: LH
 Drawn by: LH
 Date: MAY 2024

Checked by: LH
 Reviewed by: LH
 Scale: AS SHOWN

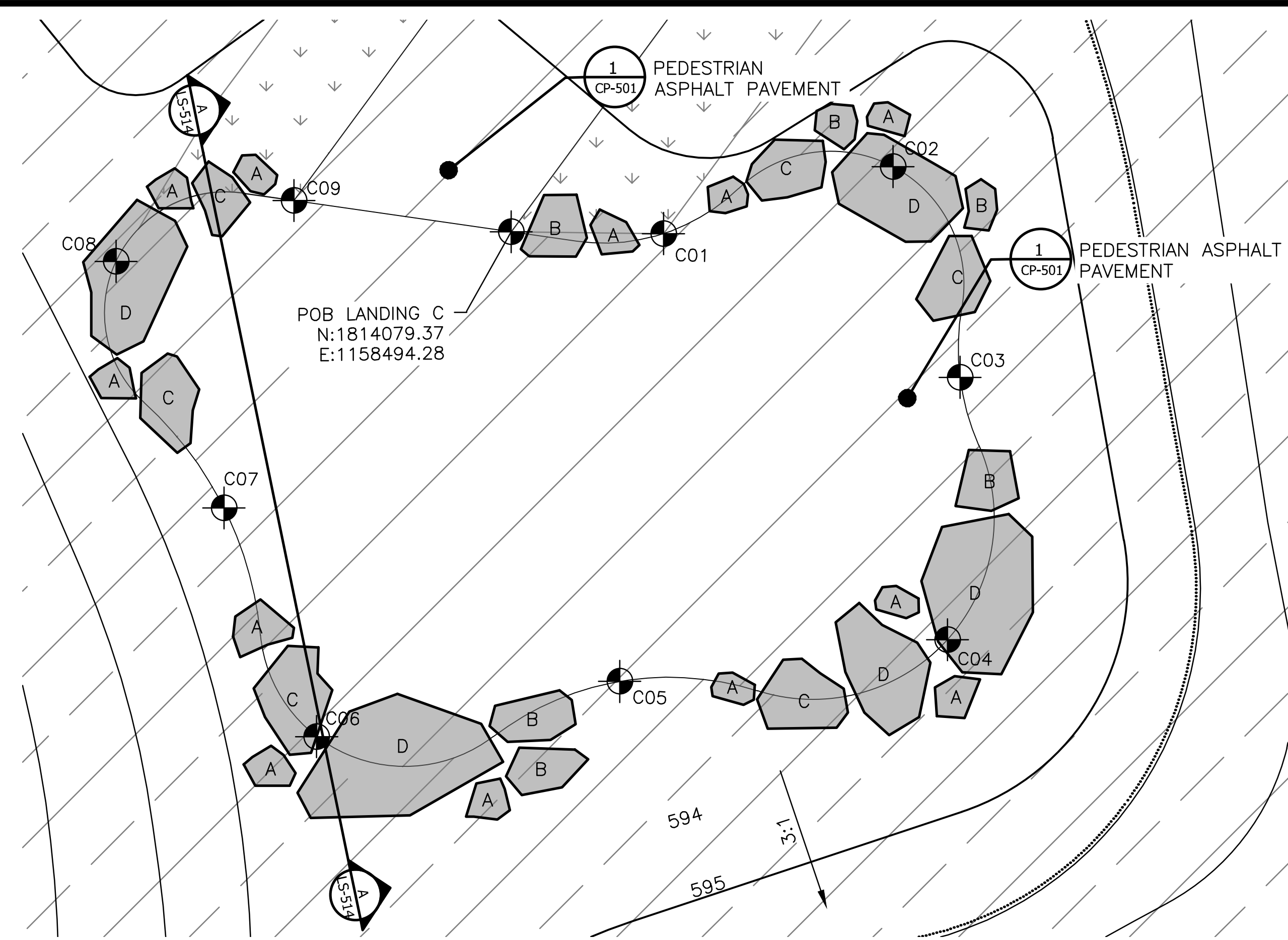
DONOHUE
 Accurate
 CONSULTING ENGINEERS

ZIM
 GREEN & ASSOCIATES, INC.
 CONSULTING ENGINEERS

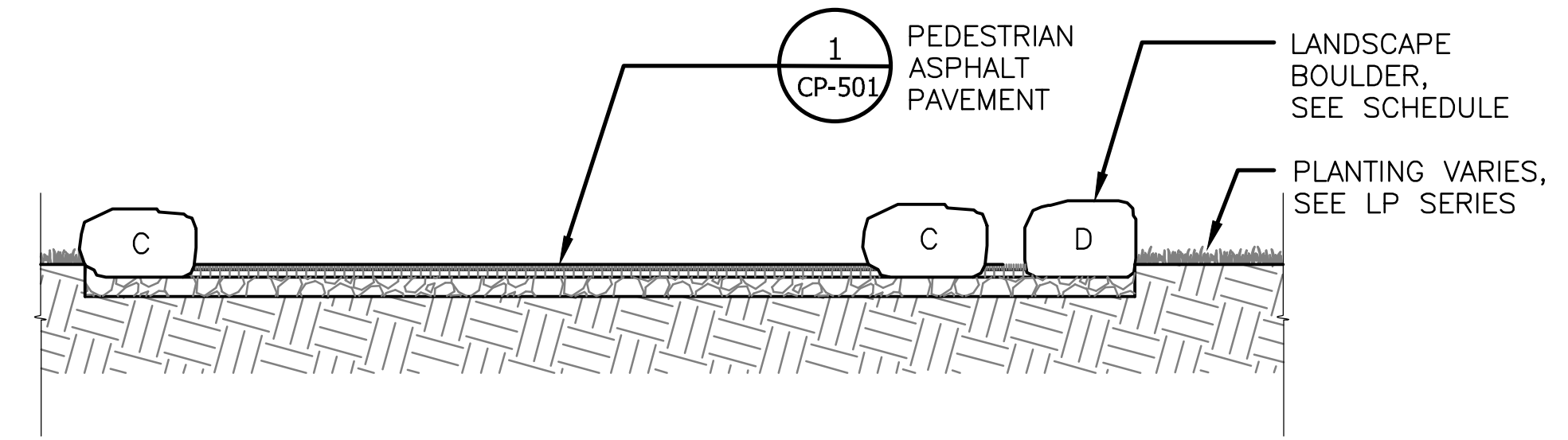
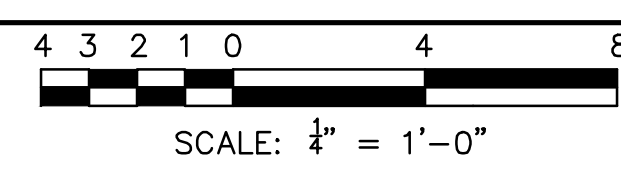
LIVING HABITATS

Sheet Number:
LS-513
 Page Number: 139

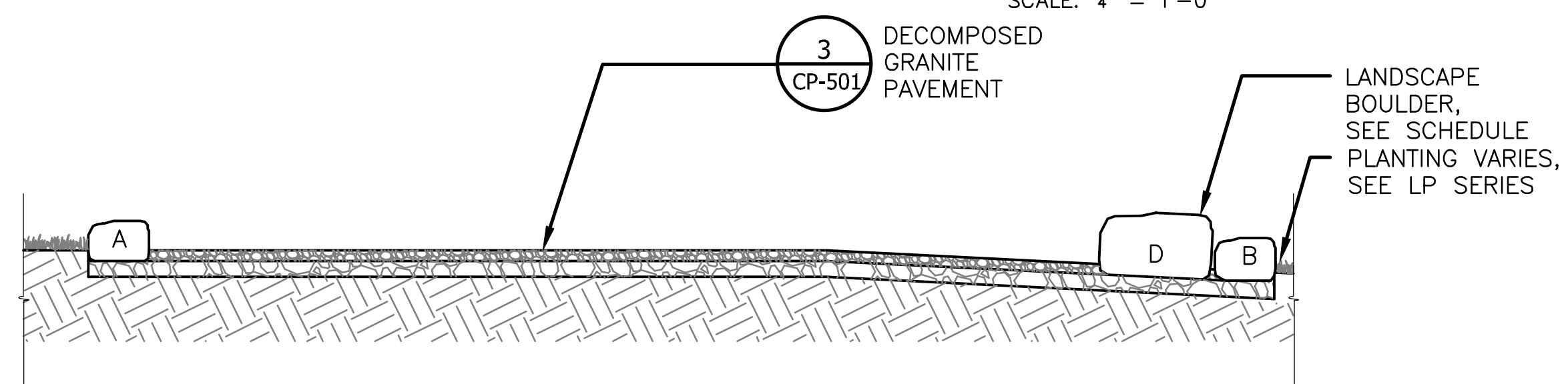
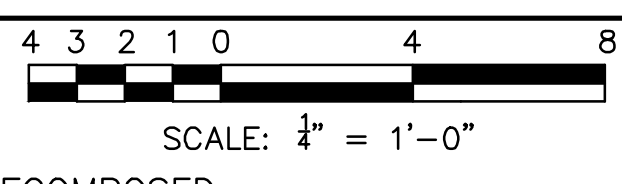
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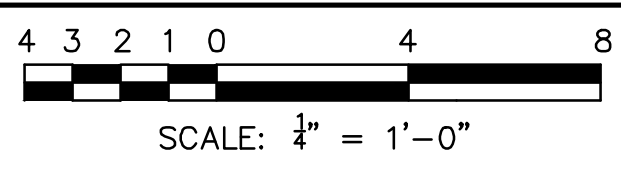
1 LANDING - C
 SCALE: 1"=4'-0"



3 SECTION A - A
 SCALE: 1"=4'-0"



4 SECTION B - B
 SCALE: 3"=1'-0"



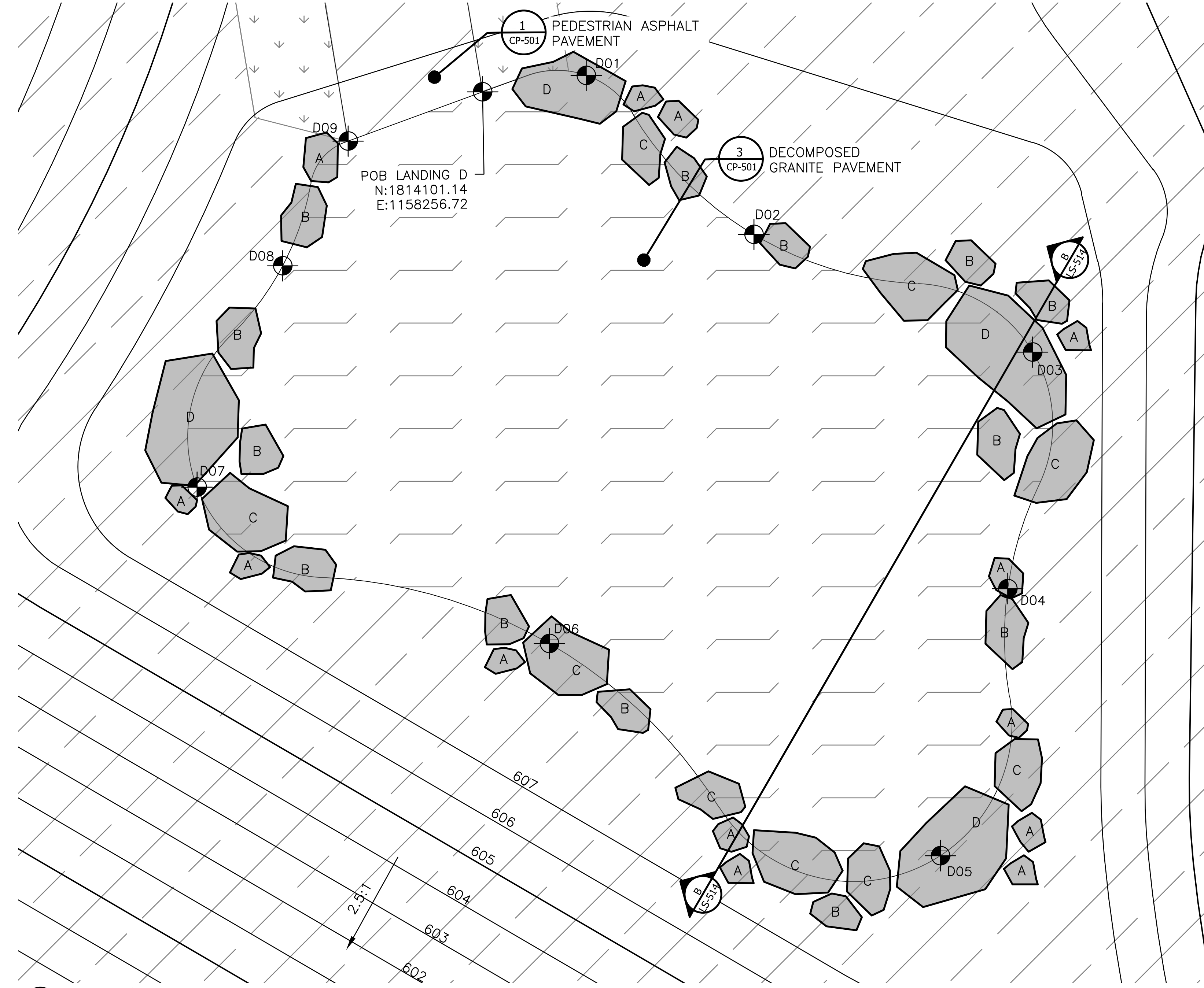
| LANDING C & D - STONE BOULDERS SCHEDULE - VERIFY STONE SELECTION & FIELD PLACEMENT | | | | | |
|--|----------|----------------|----------------|----------------|--------------------------------|
| BOULDER TYPE | QUANTITY | BOULDER LENGTH | BOULDER WIDTH | BOULDER HEIGHT | NOTES |
| A | 25 | 1'-0" TO 1'-6" | 1'-0" TO 1'-6" | 1'-6" TO 2'-0" | ROUGH HEWN AND SOURCED ON-SITE |
| B | 19 | 1'-6" TO 2'-6" | 1'-6" TO 2'-6" | 2'-0" TO 2'-6" | ROUGH HEWN AND SOURCED ON-SITE |
| C | 15 | 2'-6" TO 3'-6" | 2'-6" TO 3'-6" | 1'-6" TO 2'-0" | ROUGH HEWN AND SOURCED ON-SITE |
| D | 9 | 3'-6" TO 4'-6" | 3'-6" TO 4'-6" | 1'-6" TO 2'-0" | ROUGH HEWN AND SOURCED ON-SITE |

| LANDING C - LAYOUT COORDINATES - VERIFY FIELD PLACEMENT | | |
|---|------------|------------|
| CORDINATE | NORTHING | EASTING |
| POB LANDING C | 1814079.44 | 1158494.28 |
| C01 | 1814079.37 | 1158500.58 |
| C02 | 1814082.14 | 1158510.08 |
| C03 | 1814073.42 | 1158512.85 |
| C04 | 1814062.57 | 1158512.33 |
| C05 | 1814060.84 | 1158498.77 |
| C06 | 1814058.56 | 1158486.23 |
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| C08 | 1814078.22 | 1158477.94 |
| C09 | 1814080.73 | 1158485.29 |

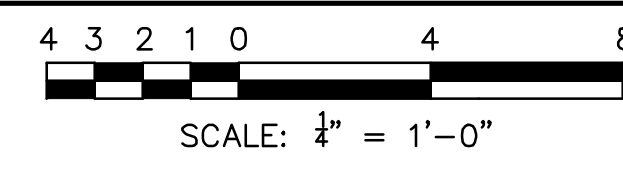
| LANDING D - LAYOUT COORDINATES - VERIFY FIELD PLACEMENT | | |
|---|------------|------------|
| CORDINATE | NORTHING | EASTING |
| POB LANDING D | 1814101.14 | 1158256.72 |
| D01 | 1814102.07 | 1158262.61 |
| D02 | 1814093.03 | 1158272.13 |
| D03 | 1814086.34 | 1158287.98 |
| D04 | 1814072.90 | 1158286.56 |
| D05 | 1814057.72 | 1158282.74 |
| D06 | 1814069.77 | 1158260.51 |
| D07 | 1814078.66 | 1158240.48 |
| D08 | 1814091.24 | 1158245.35 |
| D09 | 1814098.33 | 1158249.08 |

LEGEND:

- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- [Hatched Box] ASPHALT PAVEMENT - PEDESTRIAN
- [Downward Arrows] MOWN TURF
- [Diagonal Lines] PLANTED AREA, REFERENCE LP-SERIES
- [Stippled Box] DECOMPOSED GRANITE



2 LANDING - D
 SCALE: 1"=4'-0"



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
LANDING DETAILS - C & D

Designed by: LH
 Checked by: LH
 Drawn by: LH
 Reviewed by: LH
 Date: MAY 2024
 Scale: AS SHOWN

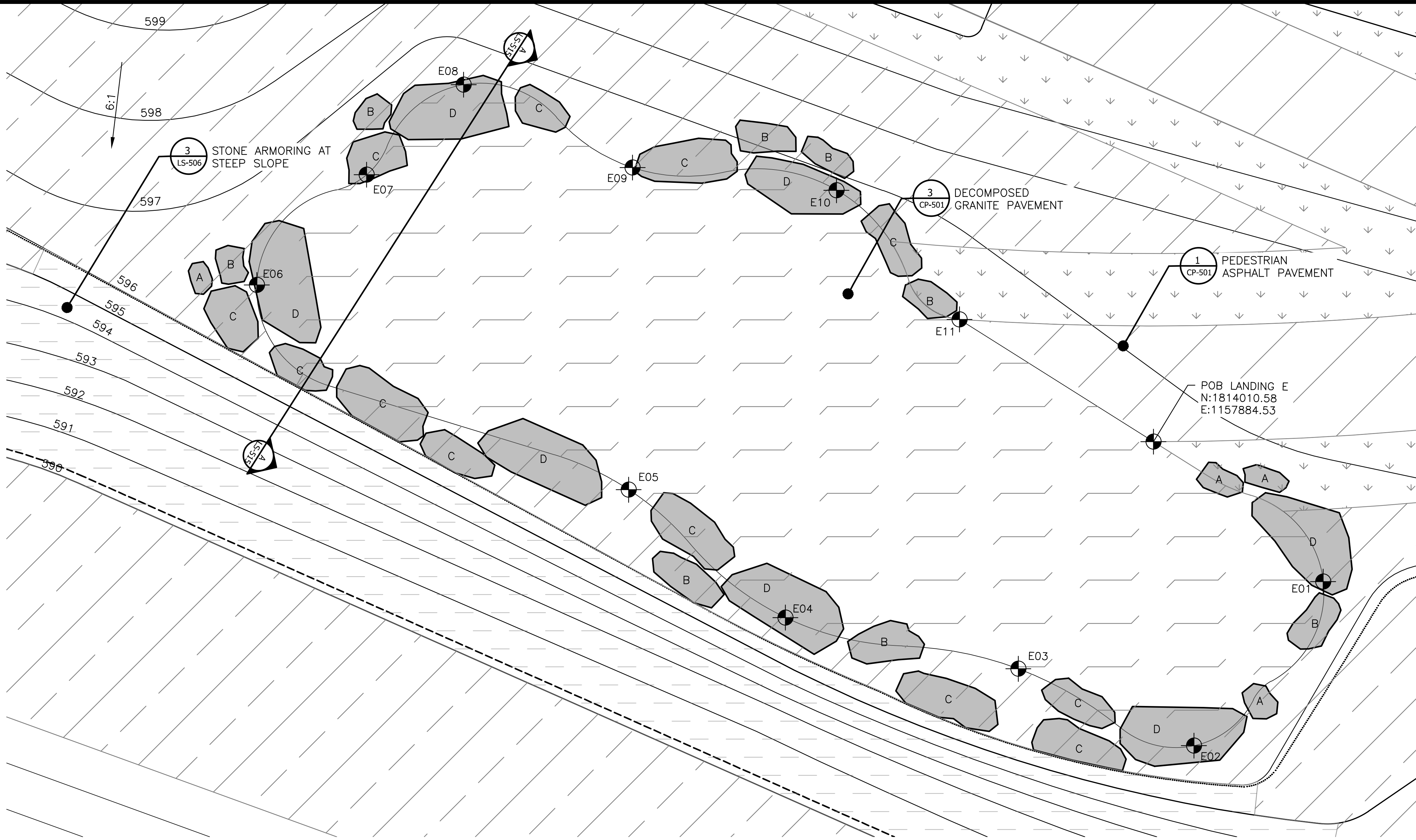
Accurate
 CONSULTING ENGINEERS

DONOHUE
 CONSULTING ENGINEERS

LIVING HABITATS

Sheet Number:
LS-514
 Page Number: 140

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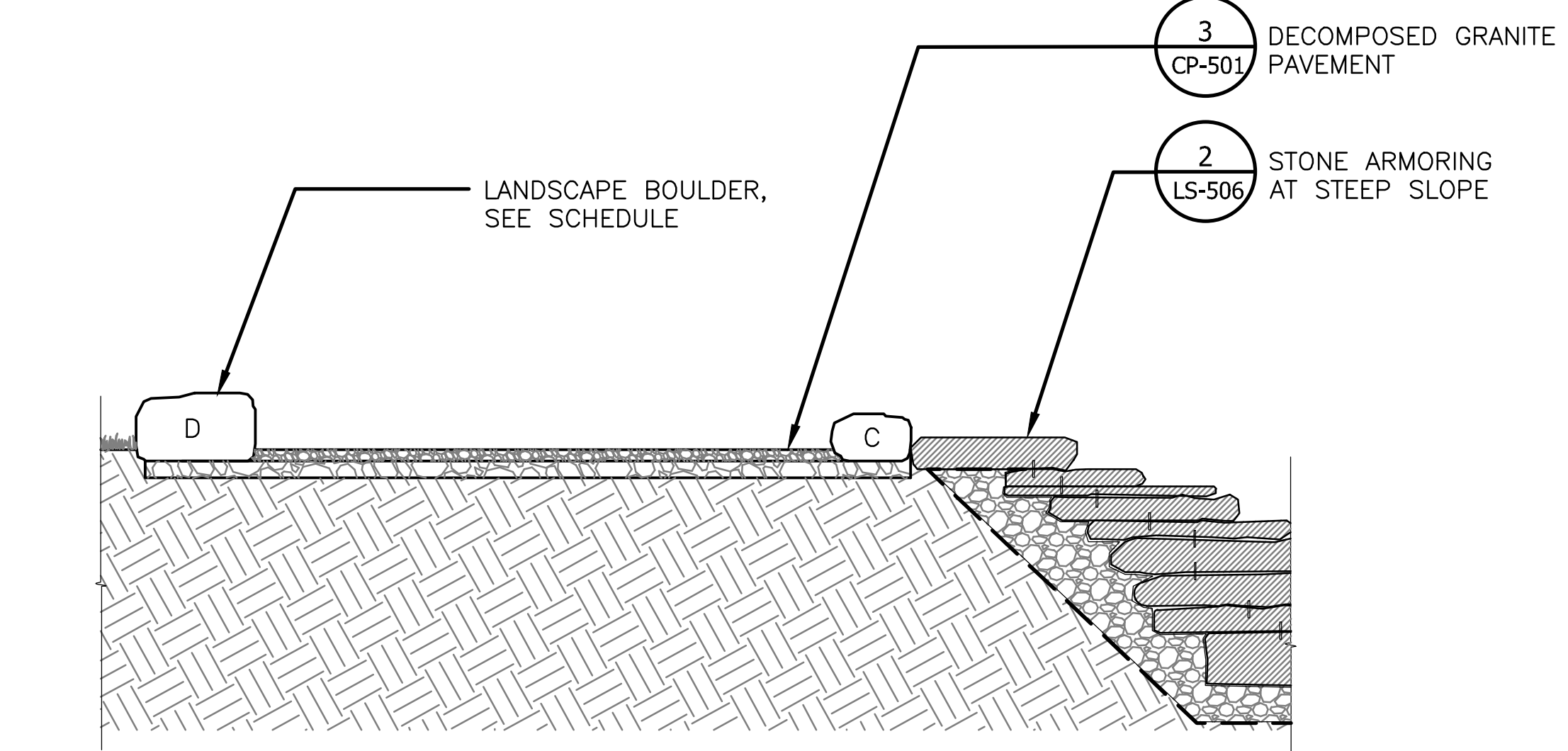
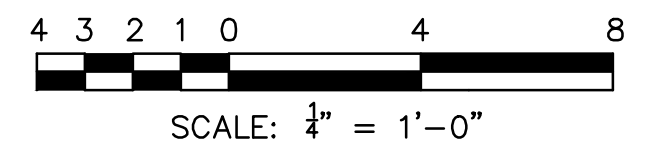
LEGEND:

- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- ASPHALT PAVEMENT - PEDESTRIAN
- STONE ARMORING, REFERENCE 1 & 2/LS-506
- CIP CONCRETE PAVEMENT- PEDESTRIAN
- MOWN TURF
- PLANTED AREA, REFERENCE LP-SERIES
- DECOMPOSED GRANITE

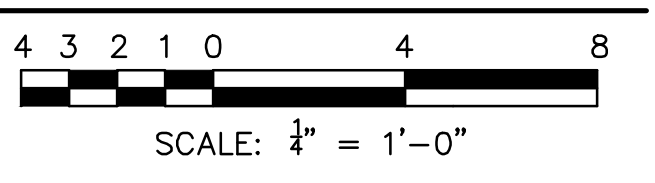
LANDING E - LAYOUT COORDINATES - VERIFY FIELD PLACEMENT

| COORDINATE | NORTHING | EASTING |
|---------------|------------|------------|
| POB LANDING E | 1814010.58 | 1157884.53 |
| E01 | 1814000.89 | 1157896.27 |
| E02 | 1813989.55 | 1157887.33 |
| E03 | 1813994.87 | 1157875.19 |
| E04 | 1813998.41 | 1157859.08 |
| E05 | 1814007.25 | 1157848.25 |
| E06 | 1814021.41 | 1157822.54 |
| E07 | 1814029.04 | 1157830.13 |
| E08 | 1814035.26 | 1157836.84 |
| E09 | 1814029.53 | 1157848.52 |
| E10 | 1814027.96 | 1157862.62 |
| E11 | 1814019.03 | 1157871.12 |

1 LANDING - E
 SCALE: 1"=4'-0"



2 SECTION A - A
 SCALE: 1"=4'-0"



LANDING E - STONE BOULDERS SCHEDULE - VERIFY STONE SELECTION & FIELD PLACEMENT

| BOULDER TYPE | QUANTITY | BOULDER LENGTH | BOULDER WIDTH | BOULDER HEIGHT | NOTES |
|--------------|----------|----------------|----------------|----------------|--------------------------------|
| A | 4 | 1'-0" TO 1'-6" | 1'-0" TO 1'-6" | 1'-6" TO 2'-0" | ROUGH HEWN AND SOURCED ON-SITE |
| B | 8 | 1'-6" TO 2'-6" | 1'-6" TO 2'-6" | 2'-0" TO 2'-6" | ROUGH HEWN AND SOURCED ON-SITE |
| C | 12 | 2'-6" TO 3'-6" | 2'-6" TO 3'-6" | 1'-6" TO 2'-0" | ROUGH HEWN AND SOURCED ON-SITE |
| D | 7 | 3'-6" TO 4'-6" | 3'-6" TO 4'-6" | 1'-6" TO 2'-0" | ROUGH HEWN AND SOURCED ON-SITE |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
LANDING DETAILS - E

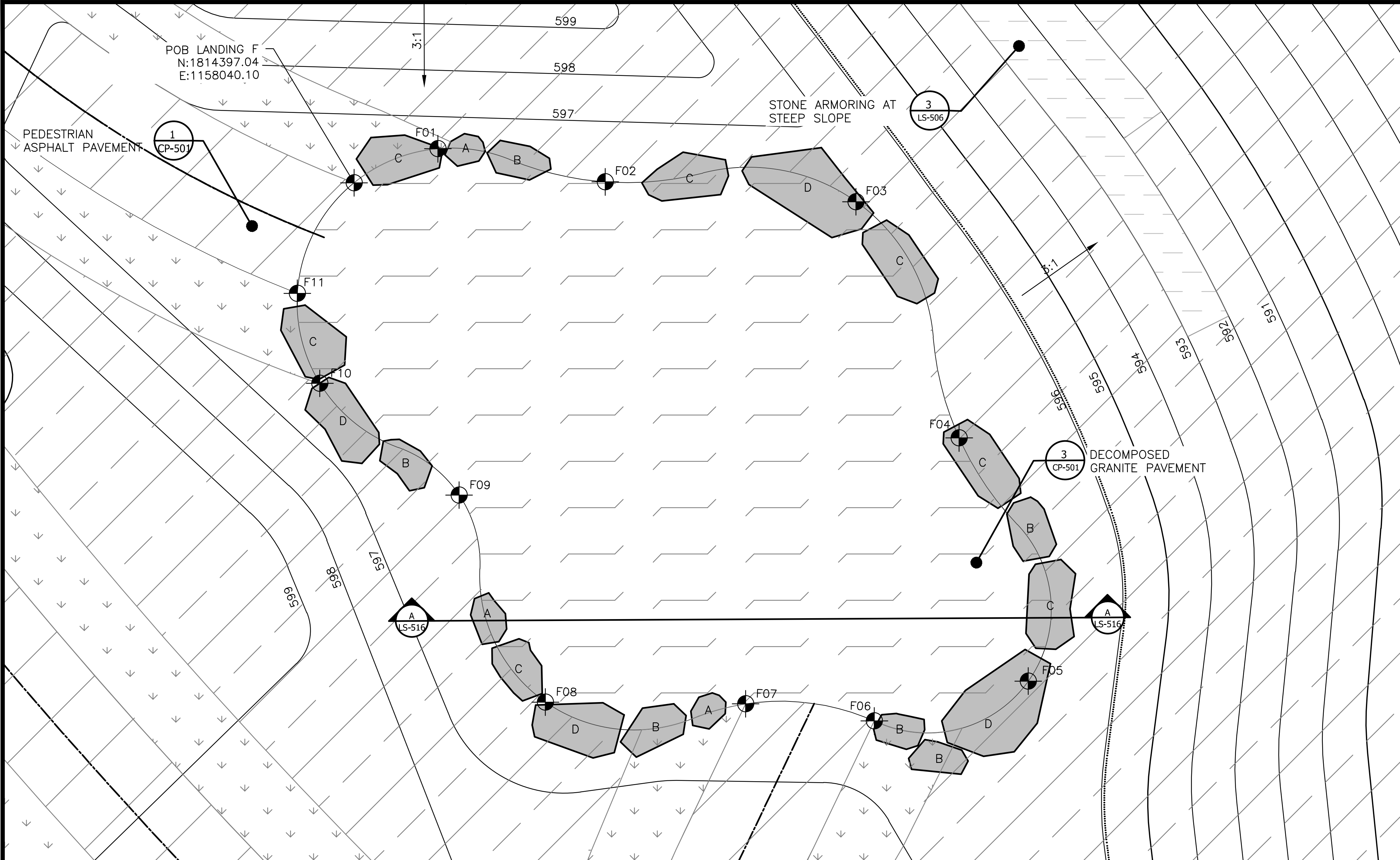
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 Checked by: LH
 Drawn by: LH
 Reviewed by: LH
 Date: MAY 2024
 Scale: AS SHOWN

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Rev: Description Appr. Date
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Sheet Number:
LS-515
 Page Number: 141

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 PLOT DATE: 8/13/2024 11:55 AM PLOTTED BY: HANNAH CUSICK



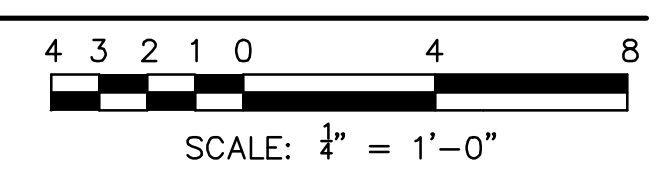
LEGEND:

- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- [Hatched Box] ASPHALT PAVEMENT - PEDESTRIAN
- [Dashed Box] STONE ARMORING, REFERENCE 1 & 2/LS-506
- [Downward Arrows] MOWN TURF
- [Diagonal Lines] PLANTED AREA, REFERENCE LP-SERIES
- [Stippled Box] DECOMPOSED GRANITE

LANDING F - LAYOUT COORDINATES - VERIFY FIELD PLACEMENT

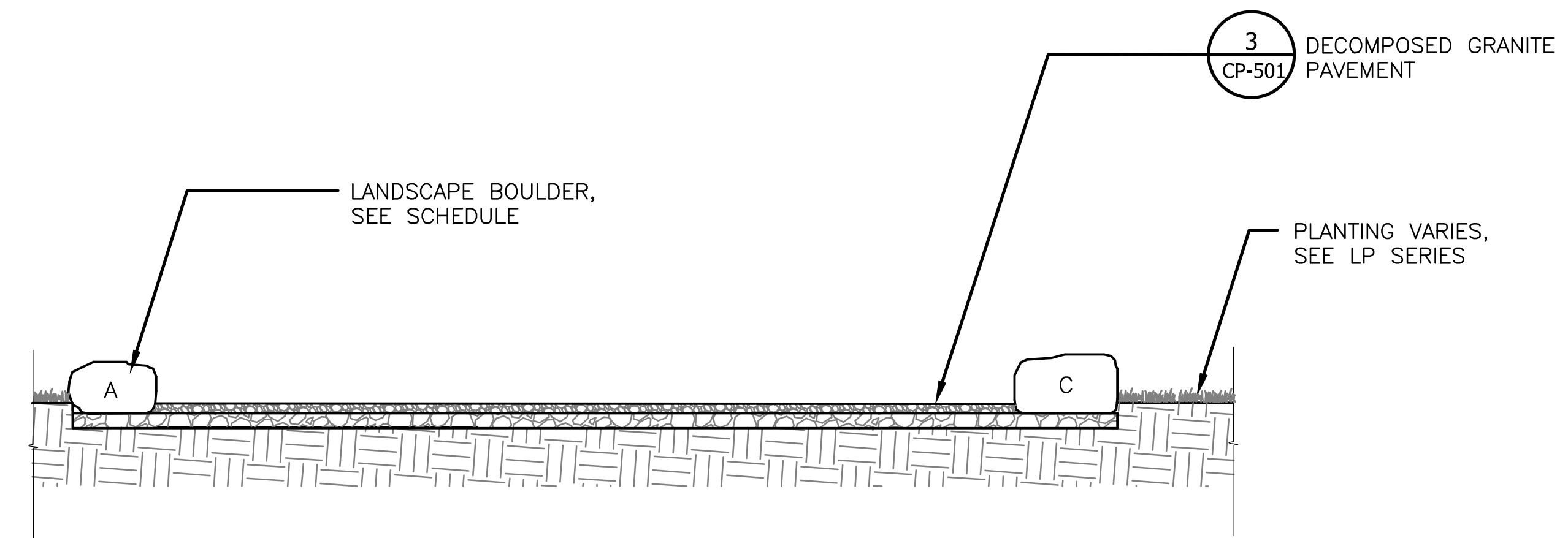
| CORDINATE | NORTHING | EASTING |
|---------------|------------|------------|
| POB LANDING F | 1814397.04 | 1158040.10 |
| F01 | 1814399.24 | 1158045.53 |
| F02 | 1814397.10 | 1158056.37 |
| F03 | 1814395.81 | 1158072.61 |
| F04 | 1814380.51 | 1158079.29 |
| F05 | 1814364.77 | 1158083.77 |
| F06 | 1814362.19 | 1158073.80 |
| F07 | 1814363.30 | 1158065.46 |
| F08 | 1814363.41 | 1158052.49 |
| F09 | 1814376.81 | 1158046.90 |
| F10 | 1814384.05 | 1158037.88 |
| F11 | 1814389.88 | 1158036.42 |

1 LANDING - F
 SCALE: 1"=4'-0"

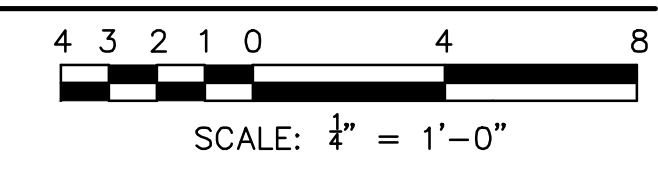


LANDING F - STONE BOULDERS SCHEDULE - VERIFY STONE SELECTION & FIELD PLACEMENT

| BOULDER TYPE | QUANTITY | BOULDER LENGTH | BOULDER WIDTH | BOULDER HEIGHT | NOTES |
|--------------|----------|----------------|----------------|----------------|--------------------------------|
| A | 3 | 1'-0" TO 1'-6" | 1'-0" TO 1'-6" | 1'-6" TO 2'-0" | ROUGH HEWN AND SOURCED ON-SITE |
| B | 6 | 1'-6" TO 2'-6" | 1'-6" TO 2'-6" | 2'-0" TO 2'-6" | ROUGH HEWN AND SOURCED ON-SITE |
| C | 7 | 2'-6" TO 3'-6" | 2'-6" TO 3'-6" | 1'-6" TO 2'-0" | ROUGH HEWN AND SOURCED ON-SITE |
| D | 4 | 3'-6" TO 4'-6" | 3'-6" TO 4'-6" | 1'-6" TO 2'-0" | ROUGH HEWN AND SOURCED ON-SITE |



2 SECTION A - A
 SCALE: 1"=4'-0"



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
LANDING DETAILS - F

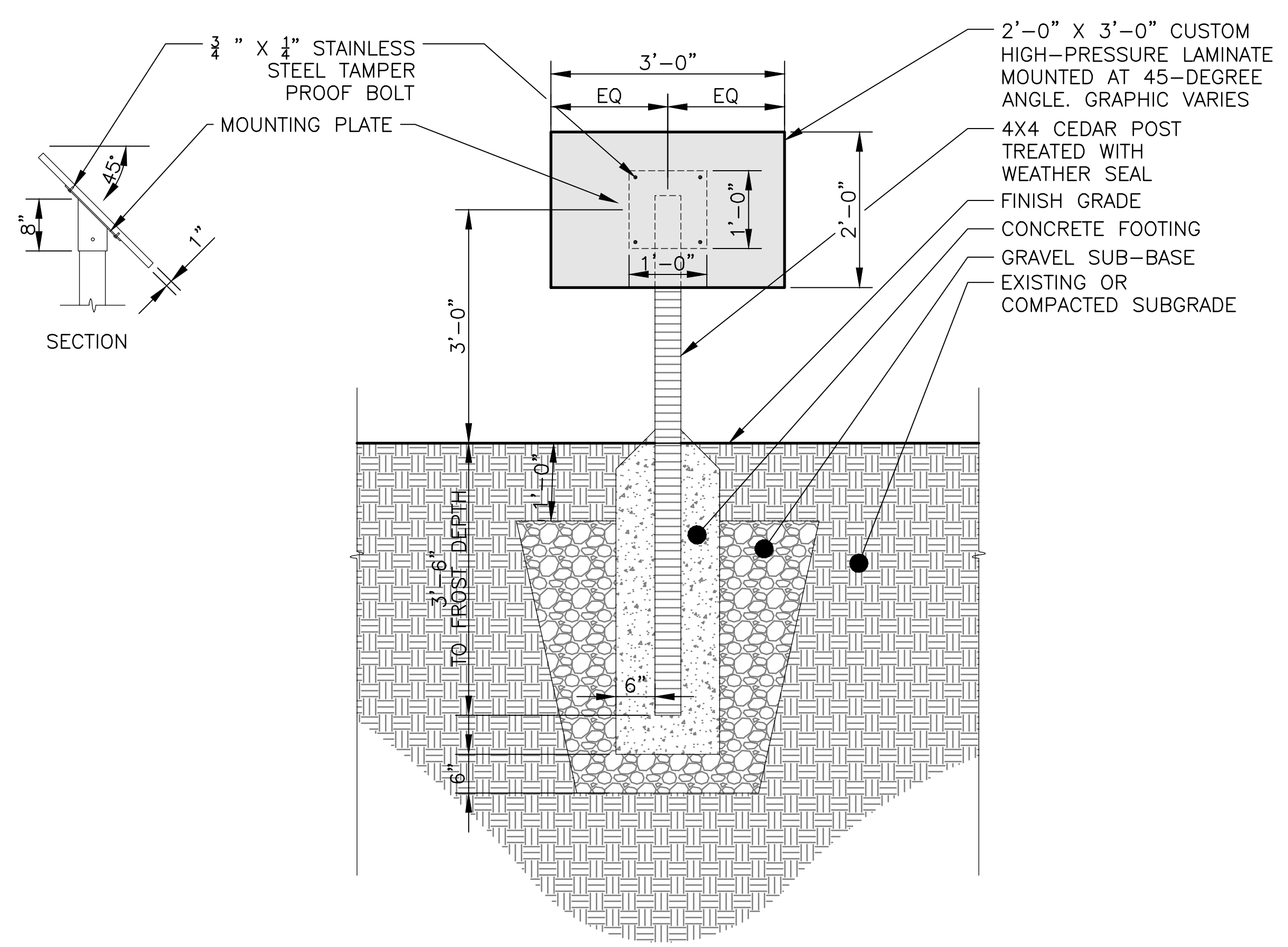
Designed by: LH
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 Date: MAY 2024
 Scale: AS SHOWN

LEGEND:
 --- CHANNEL MEAN ELEV.
 --- 100 YR FLOOD ELEV.
 [Hatched Box] ASPHALT PAVEMENT - PEDESTRIAN
 [Dashed Box] STONE ARMORING, REFERENCE 1 & 2/LS-506
 [Downward Arrows] MOWN TURF
 [Diagonal Lines] PLANTED AREA, REFERENCE LP-SERIES
 [Stippled Box] DECOMPOSED GRANITE

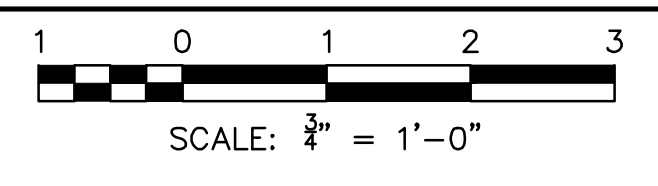
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 LIVING HABITATS

Sheet Number:
LS-516
 Page Number: 142

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1 PARK SIGNAGE DETAIL
SCALE: 3/4" = 1'-0"

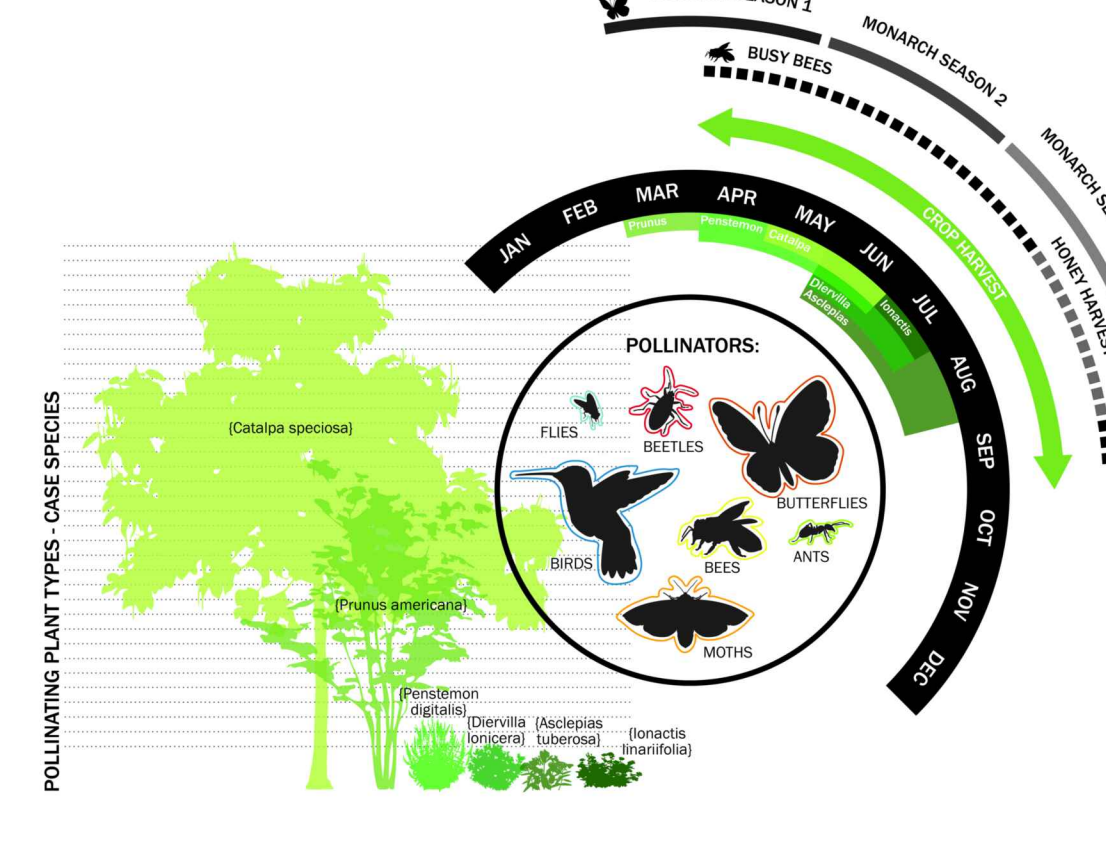


HABITAT FOR POLLINATORS

When considering the performance of landscapes it is important to integrate natural habitats that provide food and shelter resources for many species. Easily forgotten, we depend upon these other creatures for our survival. For example, many birds and insects play crucial roles pollinating plants that we eat. We broadly benefit from a vibrant natural world.

Rain gardens help in many ways: they filter stormwater runoff before it enters local waterways; alleviate problems associated with flooding and drainage by providing storage; they recharge the ground water supply; and lastly, they can provide shelter and food for wildlife, including birds and butterflies.

Planting designs strive for flowers blooming from early spring to late fall in support of pollinators. The best types of plants to use in a rain garden are native species that are adapted to the local conditions. Balancing the relationships between water, vegetation, animals, and humans increases the value of Village infrastructure by expecting multiple benefits.



WHY SHOULD WE PLANT NATIVE SPECIES IN A RAIN GARDEN?

- Native plants have adapted to living in local soils and weather conditions.
- Native plants don't require fertilizer or pesticides, and once established, supplemental watering.
- They have deep roots systems that channel water into the subsoil and lock soils together, reducing erosion.
- They can be as beautiful as cultivated ornamental species and better support wildlife.



2 HABITAT AND ENVIRONMENTAL SIGNAGE

RAIN GARDEN & COMMUNITY IMPACT

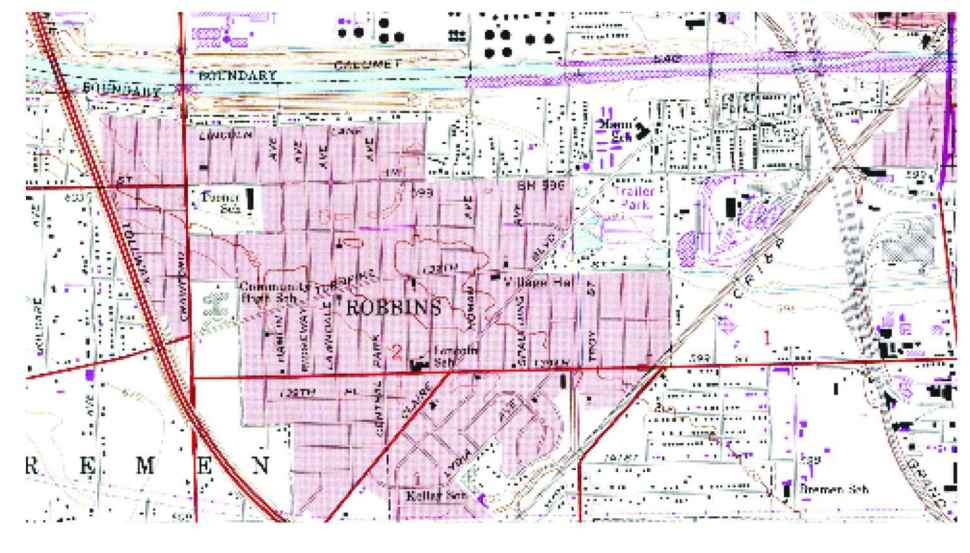
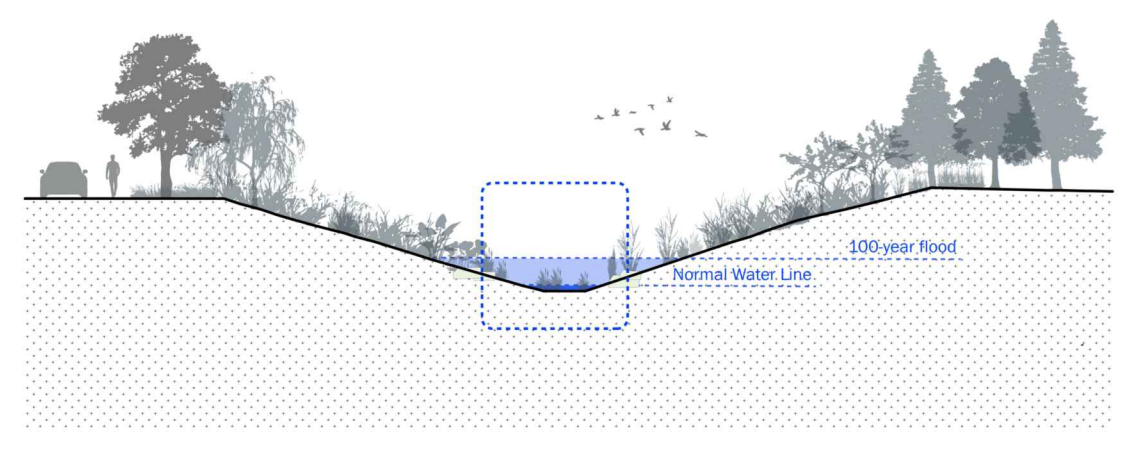
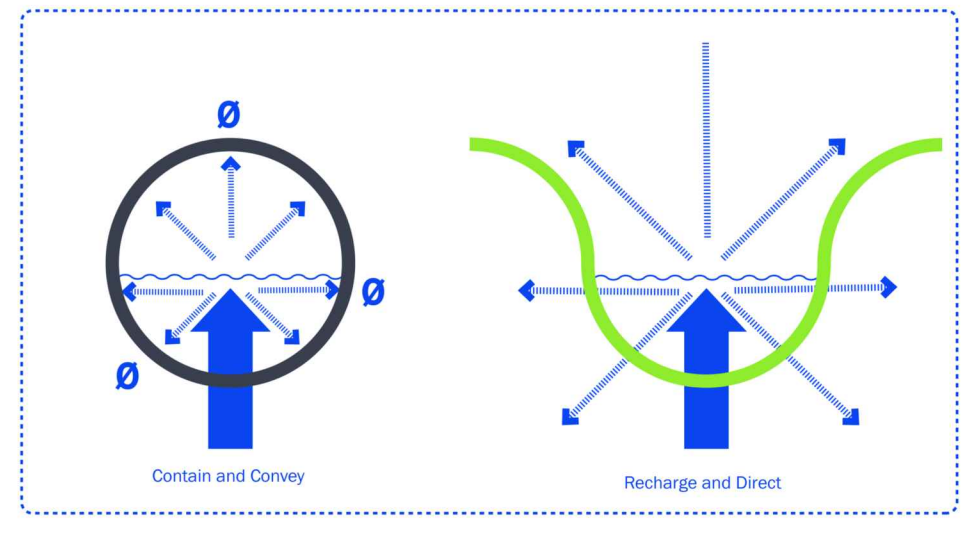
With human development, there are impervious (hard) surfaces created. Impervious surfaces result in an increased amount of stormwater runoff and a greater chance for pollution to enter natural waterways through storm sewer systems.

Much water pollution is caused by rainfall or snowmelt moving over the ground surface as stormwater runoff. As the runoff moves, it picks up and carries away human-made pollutants such as oil, grease, and toxic chemicals before depositing them into lakes, rivers, wetlands, coastal waters and ground waters.

Rain gardens assist with reducing polluted water runoff by slowly filtering rainfall or snowmelt into the ground rather than quickly drain into the storm sewer, where it also increases the chances for downstream flooding.

WHAT BENEFITS DO RAIN GARDENS PROVIDE TO MY COMMUNITY?

- Improves water quality by filtering out pollutants
- Aesthetically pleasing
- New natural habitat that attracts beneficial birds, butterflies, and insects
- Localized stormwater management and improved flood control



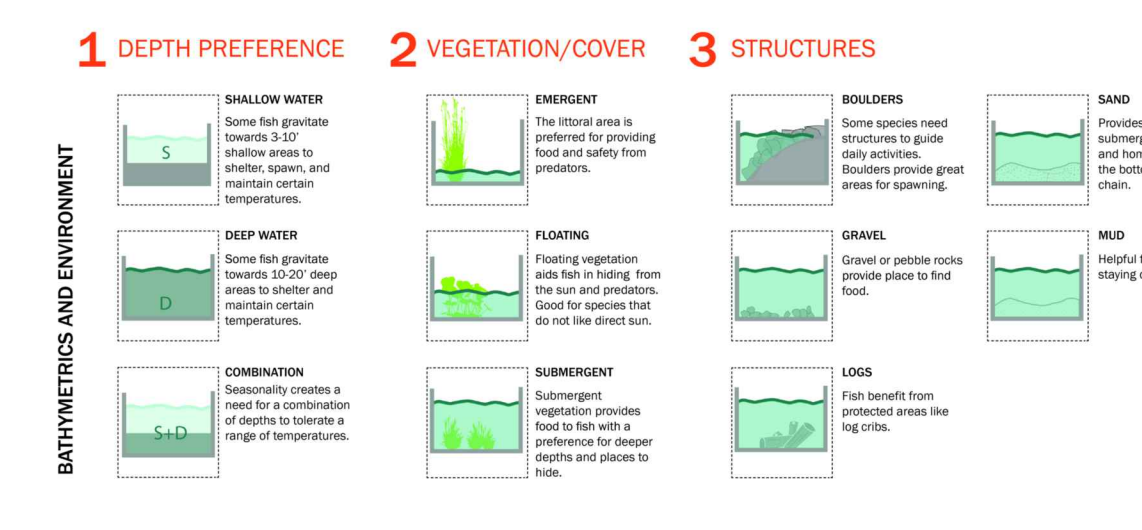
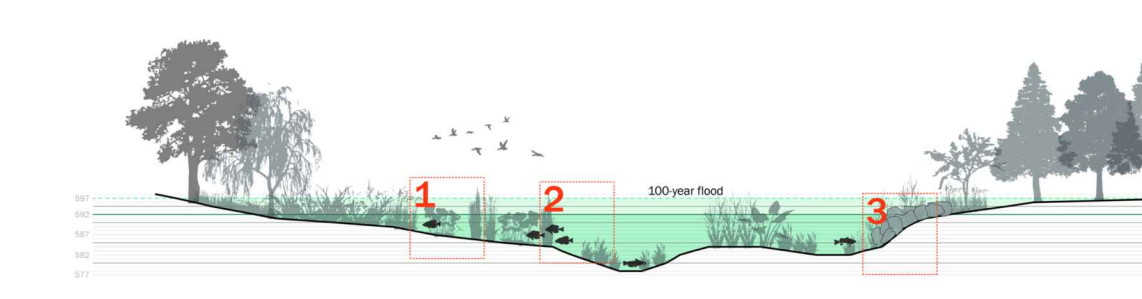
3 RAIN GARDEN & COMMUNITY IMPACT SIGNAGE

HABITAT FOR FISH

Fish habitat has been incorporated into the design of the Midlothian Creek and Robbins Wetland Park in the form of stone riffles and fish cribs.

Stone Riffles are high-velocity sections of a stream with a variety of stone sizes that provide habitat and pockets for fish to graze on insects. As fast-paced water rushes over the pockets of stone, it creates oxygen in the water, attracting insects for fish to prey on. Stone riffles provide the perfect habitat for fish to lay eggs, given the primarily gravel and stone creek bed and lack of sediment buildup. Too much sediment along the bottom of a creek can smother fish eggs, preventing survival and successful spawning.

Fish cribs are open boxes constructed of repurposed logs that are filled with plant and tree brush, such as recycled Christmas trees. These cribs provide crevices of protected areas for fish to sleep in as their defined home territory.



WHY SHOULD WE INCORPORATE FISH HABITAT INTO CREEKS AND PONDS?

- Fish require a variety of water depths, bedding materials, and vegetation types to thrive within creeks and ponds.
- Balancing the relationship between water, animals, and humans provides a platform by which the park becomes a resilient piece of the Village's infrastructure.
- Successful fish habitat provides the foundation for recreational activities, such as fishing.



4 STONE RIFFLES & FISH HABITAT SIGNAGE

NOTES:

1. TEXT AND SIGNAGE GRAPHICS TBD. CONTRACTOR TO COORDINATE WITH OWNER FOR TEXT AND GRAPHICS FOR FINAL SIGNAGE 4 MONTHS (MINIMUM) PRIOR TO INSTALLATION.
2. SIGN MATERIAL: CUSTOM HIGH-PRESSURE LAMINATE (CHPL).
3. SIGNAGE GRAPHICS TO BE PRINTED IN FULL COLOR. GRAPHICS MUST BE WARRANTED FOR A MINIMUM OF 10 YEARS AGAINST FADING, DE-LAMINATION, AND WEATHER DETERIORATION.

SIGNAGE SCHEDULE

| SIGNAGE TYPE | LOCATION | LAYOUT COORDINATES |
|---|------------------|--------------------|
| FISH HABITAT SIGNAGE (S1) | MIDLOTHIAN CREEK | SEE LS-101 |
| RAIN GARDEN & COMMUNITY IMPACT SIGNAGE (S2) | RAIN GARDEN | SEE LS-101 |
| FISH HABITAT SIGNAGE (S3) | STORMWATER POND | SEE LS-204 |
| HABITAT & ENVIRONMENTAL SIGNAGE (S4) | STORMWATER POND | SEE LS-204 |

| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| 1 | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

Designed by: LH
Checked by: LH
Drawn by: LH
Reviewed by: LH
Date: MAY 2024
Scale: AS SHOWN

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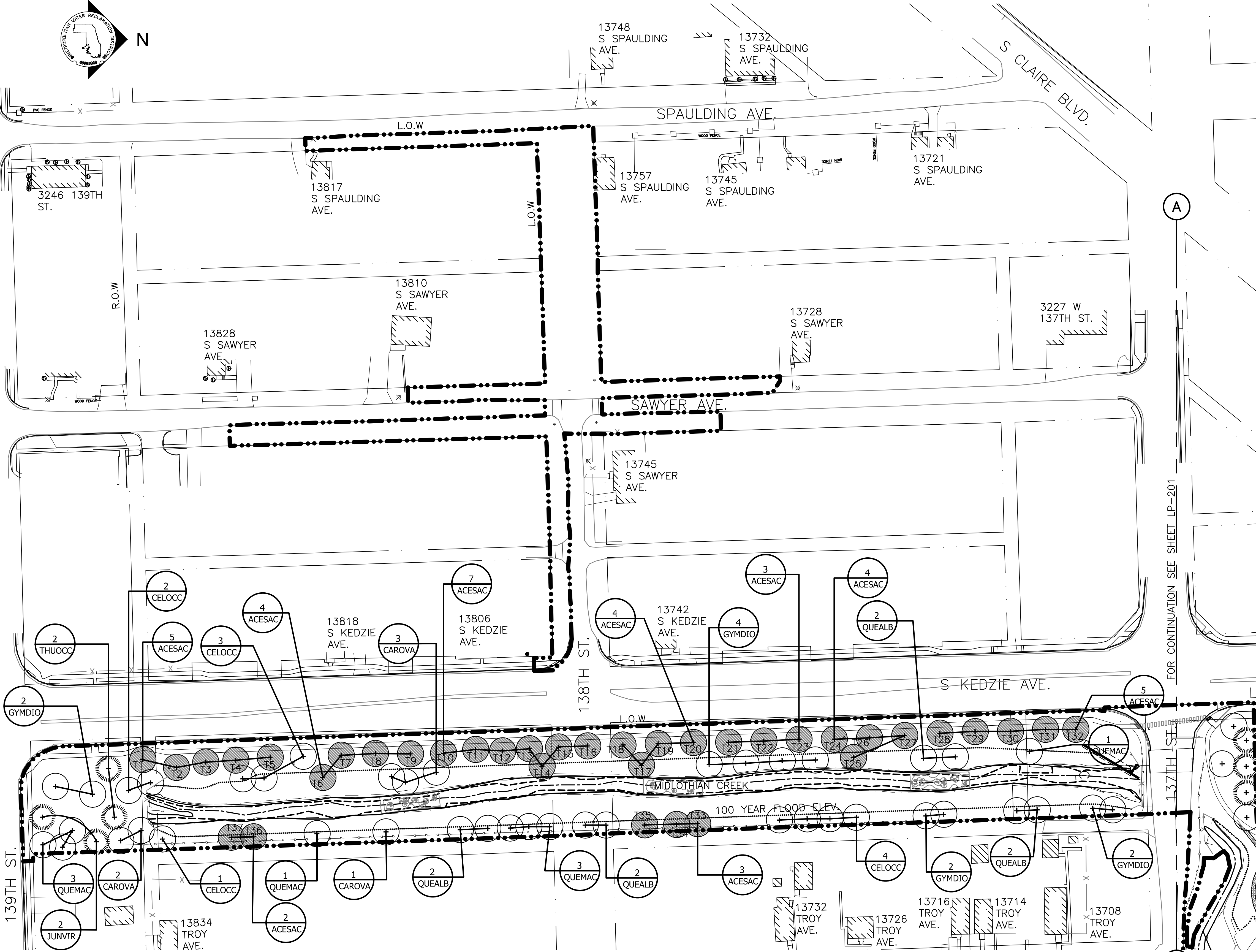
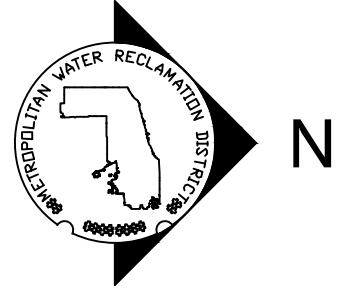
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LIVING HABITATS

CONTRACT 14-253-5FR
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
LITTLE CALUMET RIVER WATERSHED
SIGNAGE DETAILS

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 PLOT DATE: 8/13/2024 11:57 AM PLOTTED BY: HANNAH CUSICK



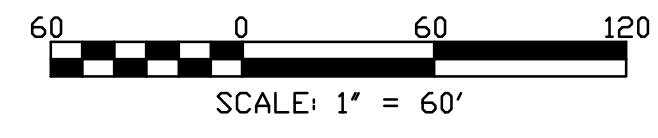
PLANTING NOTES:

1. THE CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING AND NEW UTILITY LINE LOCATIONS PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE ENGINEER.
2. THE CONTRACTOR SHALL STAKE ALL TREE LOCATIONS IN THE FIELD. THE STAKED LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER. THE ENGINEER SHALL BE ON SITE DURING PLACEMENT AND PLANTING, OF ALL UNDERSTORY, HERBACEOUS, AND PERENNIAL PLANT MATERIAL AND SHALL APPROVE THE LAYOUT OF MATERIAL PRIOR TO PLANTING. THE ENGINEER MAY MAKE MINOR ADJUSTMENTS TO THE LAYOUT WITHOUT INCURRING ADDITIONAL COSTS TO THE PROJECT.
3. TREES: PROVIDE SPECIMEN BALLED AND BURLAP, OR AS SPECIFIED, TREES OF HEIGHT, SIZE, CALIPER, GENUS, SPECIES, CULTIVARS AND BRANCHING CONFIGURATION INDICATED. PROVIDE PLANT STOCK CERTIFIED TO HAVE BEEN GROWN WITHIN HARDINESS ZONES 4A THROUGH 6B AS ESTABLISHED BY THE USDA. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH. THE ROOT SYSTEM OF EACH SHALL BE WELL PROVIDED WITH FIBROUS ROOTS. ALL PARTS OF PLANT SHALL BE MOIST AND SHOW ACTIVE GREEN CAMBIUM WHEN CUT. THEY SHALL BE FREE OF DISEASE, INSECT PESTS, EGGS OR LARVAE. ALL PLANTS TO BE MOVED BALLED AND BURLAP, MUST BE MOVED WITH THE ROOT SYSTEMS AS SOLID UNITS WITH BALLS OF EARTH FIRMLY WRAPPED WITH UNTREATED BURLAP, FIRMLY HELD IN PLACE BY A STOUT CORD OR WIRE, DRUM LACED, BOXED, OR IN CONTAINERS.
4. ENGINEER TO VERIFY ALL PLANT LOCATIONS IN FIELD.
5. MULCH: PROVIDE PARTIALLY DECOMPOSED MILLED LEAVES AND WOOD WITH DARK BROWN COLOR AND FREE OF EXCESSIVE FINE PARTICLES, DOUBLE OR TRIPLE SHREDDED, STRINGY MATERIAL, AND CHUNKS OF WOOD THICKER THAN 1/4".
6. ALL PLANTS SHALL BE TAGGED BY THE ENGINEER IN THE NURSERY PRIOR TO DIGGING. AT LEAST 3 WEEKS PRIOR TO EXPECTED DIGGING DATE AT THE NURSERY, REQUEST, IN WRITING, THE ENGINEER'S INSPECTION OF PLANT MATERIAL AT THE NURSERY. THE ENGINEER RESERVES THE RIGHT TO REJECT PLANT MATERIAL AT THE NURSERY OR AT THE SITE.
7. THE TRUNK FLARE (AT THE BASE OF THE TREE) SHALL BE PROPERLY EXPOSED FOR ALL PLANTINGS.
8. KEEP ROOT BALLS INTACT PRIOR TO AND DURING PLANTING OPERATIONS. PLANTS WITH BROKEN OR DAMAGED ROOT BALLS SHALL BE REJECTED AND IMMEDIATELY REMOVED FROM THE SITE. KEEP ROOT BALLS DAMP AND PROTECTED FROM DAMAGE DUE TO SUN AND WIND. DO NOT SHAVE ROOT BALLS.
9. PLANTING BED PREPARATION FOR TREES AND SHRUBS: CREATE CONTINUOUS PLANTING BED, DO NOT PLACE PLANTS IN PITS. PLANT SOIL MIXTURE WILL BE USED TO BACKFILL THE PLANTING AREA. INSTALL PLANTS SIMULTANEOUSLY WITH INSTALLATION OF PLANTING SOIL MIXES
10. TREE PLANTING: SEE TREE PLANTING DETAIL AND SPECIFICATION NOTES HEREIN FOR ADDITIONAL INFORMATION RELATED TO PLANTING PIT DIMENSIONS, PLANTING OPERATIONS, BACKFILLING, AND STAKING OF TREES.
11. CONTAINER STOCK PLANTING: PLANT CONTAINER GROWN STOCK THE SAME AS SPECIFIED FOR BALLED AND BURLAP STOCK BUT REMOVE CONTAINERS COMPLETELY.
12. OBSTRUCTIONS: IF OBSTRUCTIONS OR OTHER CONDITIONS DETRIMENTAL TO HEALTHY PLANT GROWTH ARE ENCOUNTERED, NOTIFY THE ENGINEER IMMEDIATELY AND REQUEST ADDITIONAL INSTRUCTIONS.
13. WATERING AND DRAINAGE: FILL EXCAVATIONS WITH WATER AND ALLOW WATER TO PERCOLATE OUT BEFORE PLANTING. IF PLANTING PITS DO NOT PERCOLATE OR DRAIN PROPERLY, NOTIFY THE ENGINEER AND REQUEST ADDITIONAL INSTRUCTIONS PRIOR TO PLANTING. DO NOT PLANT INTO POORLY DRAINING PLANTING PITS; POORLY DRAINING PLANTING PITS MAY HOLD WATER AND DROWN PLANTS.
14. FLOOD ALL PLANTS WITH WATER TWICE WITHIN THE FIRST 24 HOURS AFTER PLANTING.
15. ALL PLANT MATERIAL SHALL BE MULCHED AFTER PLANTING. BACKFILL TO ALLOW ROOM FOR MULCH AFTER SETTLING, AND PLACE MULCH IN DISH AFTER FIRST WATERING AND WITHIN ONE WEEK OF PLANTING. SEE PLANTING DETAILS FOR MULCH THICKNESS.
16. ALL PLANTS SHALL BE PLUMB VERTICALLY AFTER SETTLING OR AS DIRECTED BY THE ENGINEER.
17. REFER TO SPECIFICATIONS AND DRAWINGS FOR PLANTING SOIL PROFILES (SOIL MIX HORIZONS AND COMPOSITION).

LEGEND:

- - - L.O.W. - LIMIT OF WORK
- - - WOUS - WATERS OF UNITED STATES
- - - CHANNEL MEAN ELEV.
- - - 100 YR FLOOD ELEV.
- ⊕ EVERGREEN TREE
- ⊕ DECIDUOUS TREE
- ⊕ TRANSPLANTED TREES
- ⊕ STONE RIFFLES
- CHANNEL CENTER LINE & DIRECTION OF FLOW

| ACRONYM | QTY | SCIENTIFIC NAME | COMMON NAME | SIZE | ROOT | WETLAND INDICATOR | VEGETATIVE PHYSIOLOGY | NOTES |
|---------|-----|-----------------------------|----------------------|------------|------|-------------------|-----------------------|--------------------|
| ACESAC | 37 | <i>Acer saccharum</i> | SUGAR MAPLE | 3" CAL | B&B | FACU | TREE | TRANSPLANTED TREES |
| CAROVA | 6 | <i>Carya ovata</i> | SHAGBARK HICKORY | 2" CAL | B&B | FACU | TREE | |
| CELOCC | 10 | <i>Celtis occidentalis</i> | HACKBERRY | 2" CAL | B&B | FACU- | TREE | |
| GYMDIO | 10 | <i>Gymnocladus dioica</i> | KENTUCKY COFFEE TREE | 2" CAL | B&B | UPL | TREE | |
| JUNVIR | 2 | <i>Juniperus virginiana</i> | EASTERN RED CEDAR | 10'-0" HT. | B&B | FACU | TREE | |
| QUEALB | 8 | <i>Quercus alba</i> | WHITE OAK | 2" CAL | B&B | FAC | TREE | |
| QUEMAC | 8 | <i>Quercus macrocarpa</i> | BUR OAK | 2" CAL | B&B | FAC- | TREE | |
| THUOCC | 2 | <i>Thuja occidentalis</i> | EASTERN ARBORVITAE | 10'-0" HT. | B&B | FACW | TREE | |
| TOTAL | 83 | | | | | | | |



| Rev. | Description | Appr. | Date |
|------|------------------------|-------|----------|
| 1 | ISSUE FOR CONSTRUCTION | LH | 08/20/24 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

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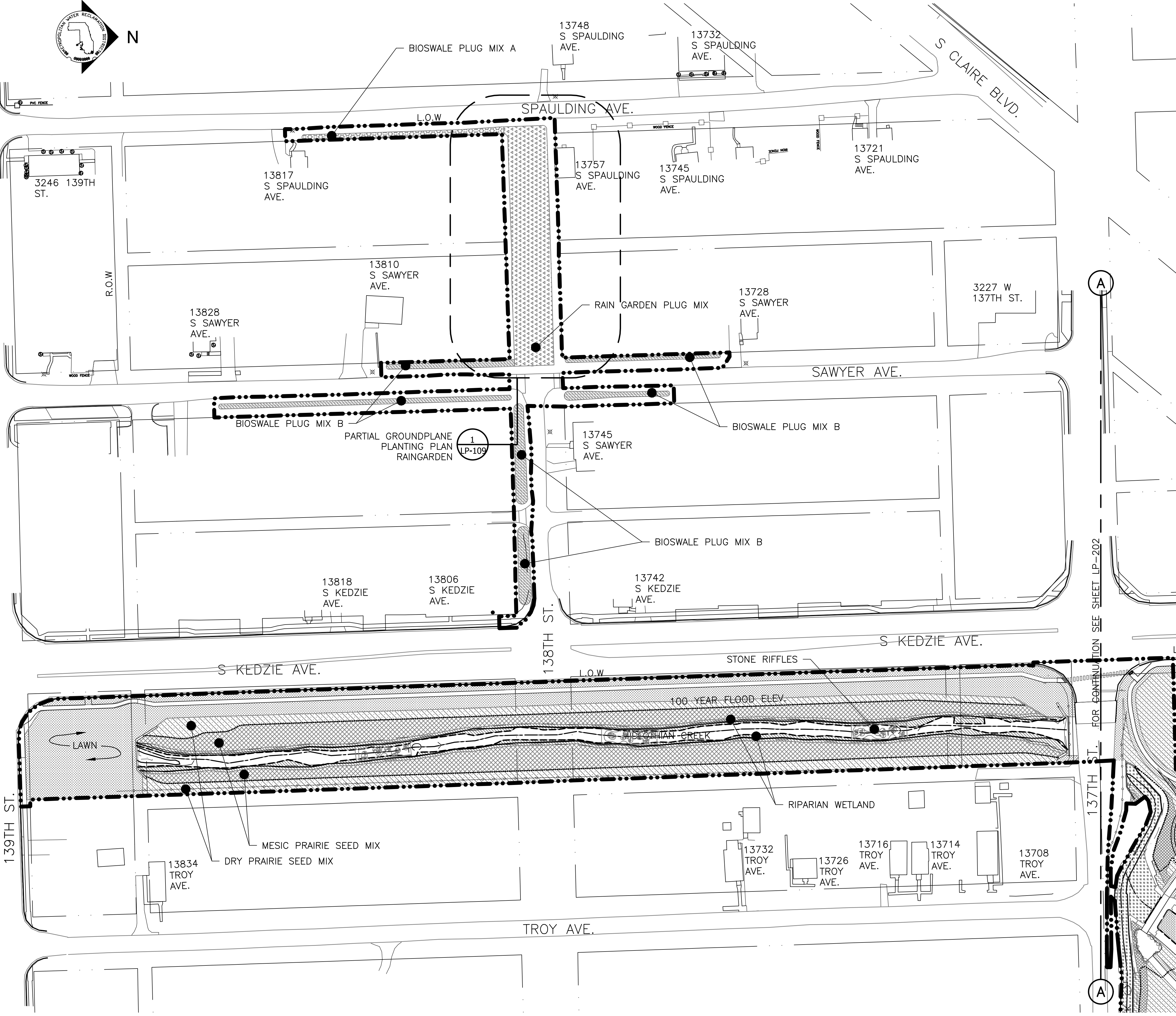
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LIVING HABITATS

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
TREE PLANTING PLAN

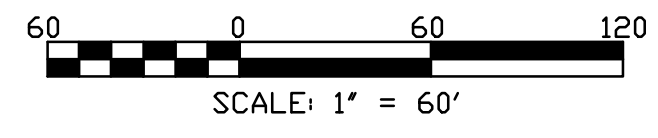
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PLANTING NOTES:
 1. REFERENCE NOTES ON LANDSCAPE DRAWING LP-101
 2. FOR PLANTING SCHEDULE, REFERENCE DRAWING LP-110

- LEGEND:**
- L.O.W. --- LIMIT OF WORK
 - WOUS --- WATERS OF UNITED STATES
 - CHANNEL MEAN ELEV.
 - 100 YR FLOOD ELEV.
 - [Symbol] STONE RIFFLES
 - [Symbol] MOWN TURF
 - [Symbol] RIPARIAN WETLAND PLUG MIX
 - [Symbol] MESIC PRAIRIE SEED MIX
 - [Symbol] DRY PRAIRIE SEED MIX
 - [Symbol] RAIN GARDEN PLUG MIX
 - [Symbol] BIOSWALE PLUG MIX A
 - [Symbol] BIOSWALE PLUG MIX B
 - [Symbol] DREDGE CHANNEL
 - [Symbol] CHANNEL CENTER LINE & DIRECTION OF FLOW

FOR CONTINUATION SEE SHEET LP-202



| Rev. | Description | Appr. | Date |
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| ISSUE FOR CONSTRUCTION | LH | | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

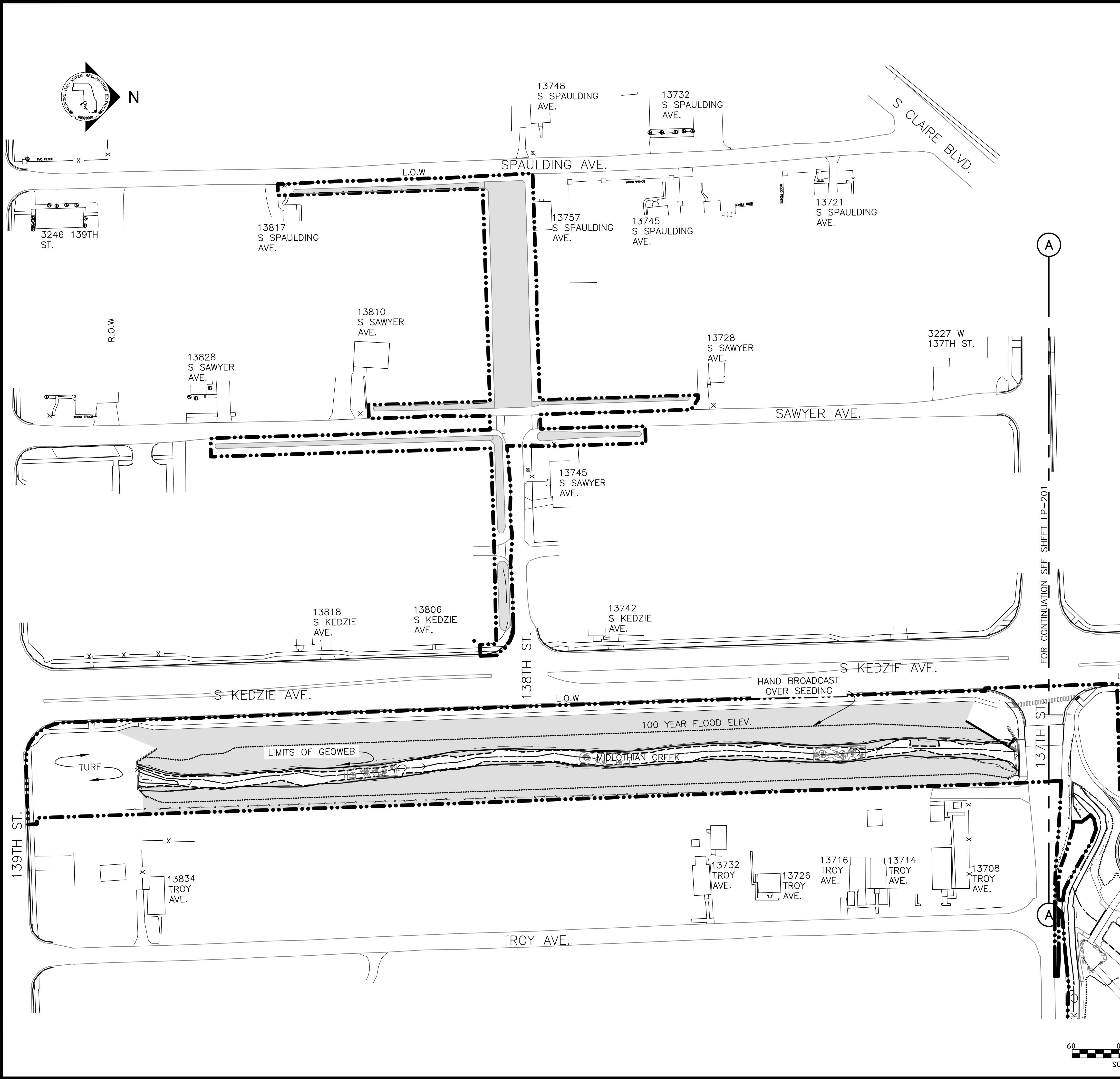
CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
GROUNDPLANE PLANTING PLAN

Designed by: LH
 Checked by: LH
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Sheet Number:
LP-102
 Page Number: 145

PLOT DATE: 8/13/2024 11:58 AM PLOTTED BY: HANNAH CUSICK
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PLANTING NOTES:

1. REFERENCE NOTES ON LANDSCAPE DRAWING LP-101
2. FOR PLANTING SCHEDULE, REFERENCE DRAWING LP-110.
3. REFERENCE GROUNDPLANE PLANTING PLANS ON LP-102.
4. REFERENCE PARTIAL PLANTING PLANS ON LP-104 THROUGH LP-106.

LEGEND:

- L.O.W. --- LIMIT OF WORK
- WOUS --- WATERS OF UNITED STATES
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- [Symbol] STONE RIFFLES
- > CHANNEL CENTER LINE & DIRECTION OF FLOW
- [Shaded Area] HYDROSEEDING AND/OR EROSION MAT IN SEED & PLUG ZONES

| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| 1 | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
EROSION AND SHORELINE PROTECTION PLAN

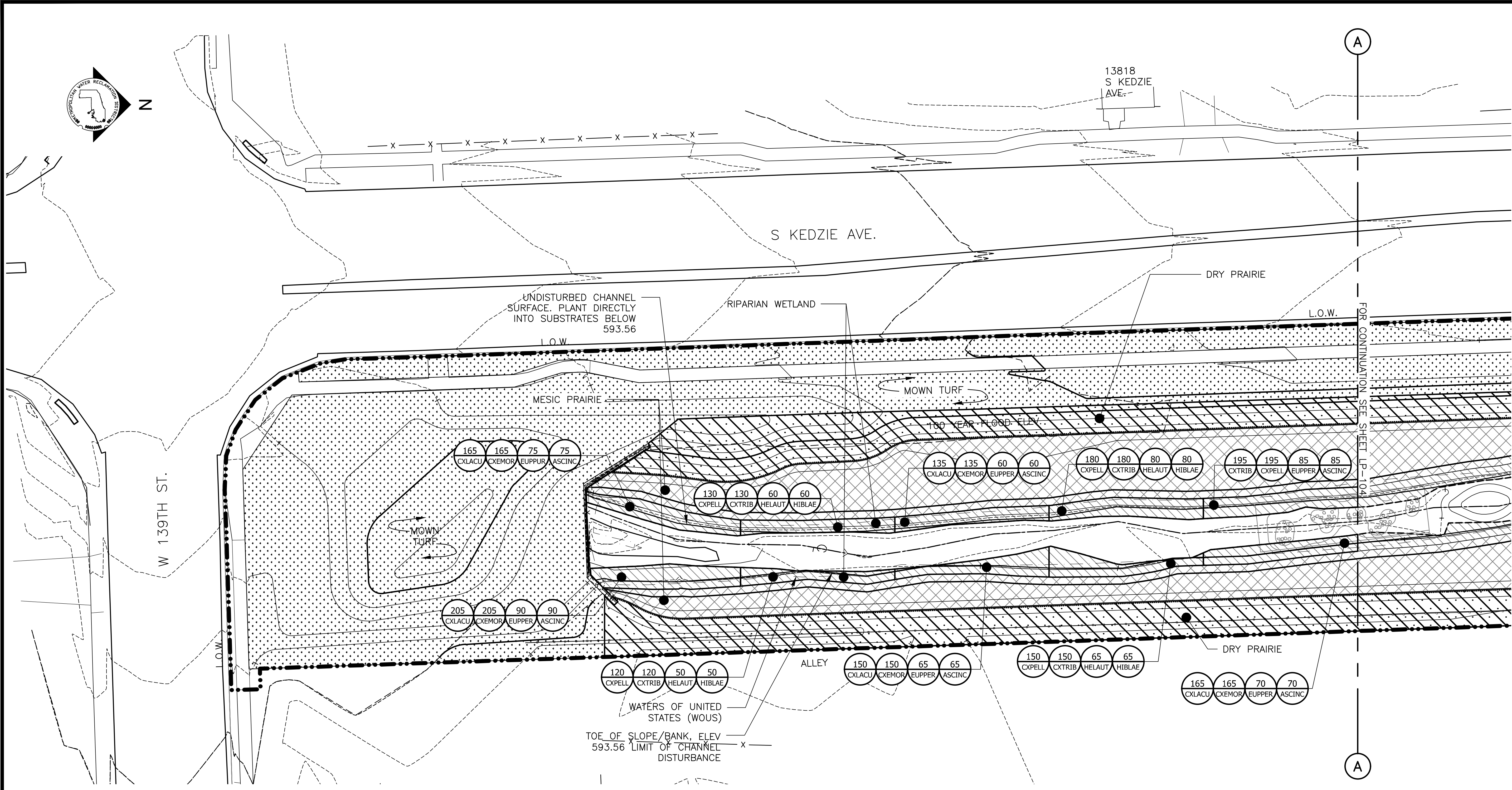
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 Consulting Engineers

LH
 Living Habitats

Sheet Number:
LP-103
 Page Number: 146

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PARTIAL GROUNDPLANE PLANTING PLAN
 SCALE = 1"=20'

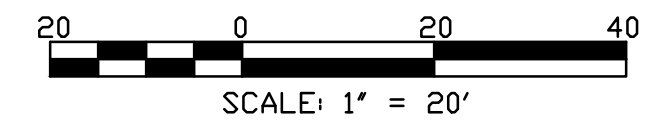
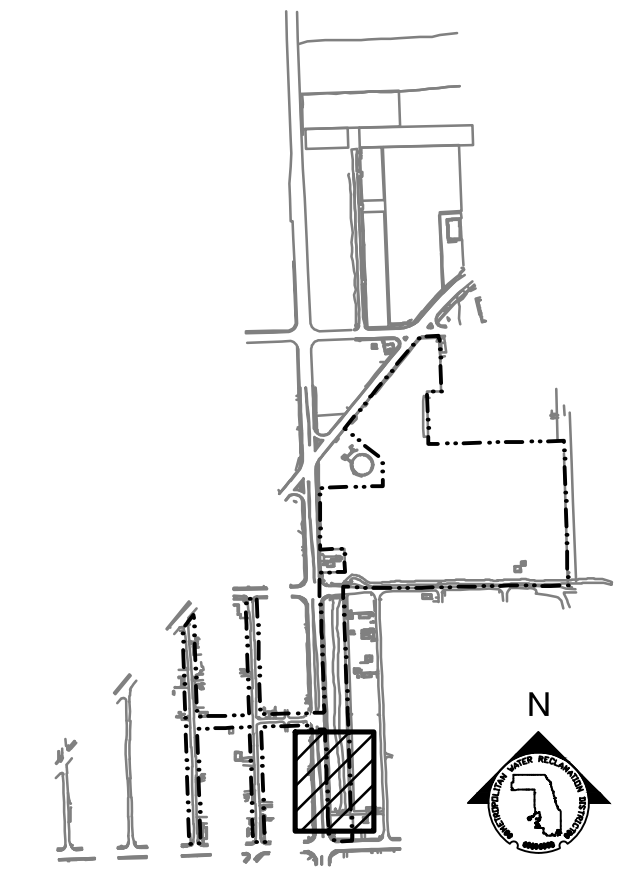
PLANTING NOTES:

1. REFERENCE NOTES ON LANDSCAPE DRAWING LP-101
2. FOR PLANTING SCHEDULE, REFERENCE DRAWING LP-110

GENERAL NOTES:

1. SEE UTILITY DRAWINGS FOR CULVERT AND UNDERDRAIN INFORMATION

- LEGEND:**
- L.O.W. --- LIMIT OF WORK
 - WOUS --- WATERS OF UNITED STATES
 - CHANNEL MEAN ELEV.
 - 100 YR FLOOD ELEV.
 - [Symbol] STONE RIFFLES
 - [Symbol] MOWN TURF
 - [Symbol] RIPARIAN WETLAND
 - [Symbol] MESIC PRAIRIE SEED MIX
 - [Symbol] DRY PRAIRIE SEED MIX



| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

Designed by: LH
 Checked by: LH
 Drawn by: LH
 Reviewed by: LH
 Date: MAY 2024
 Scale: AS SHOWN

Accurate
 CONSULTING ENGINEERS

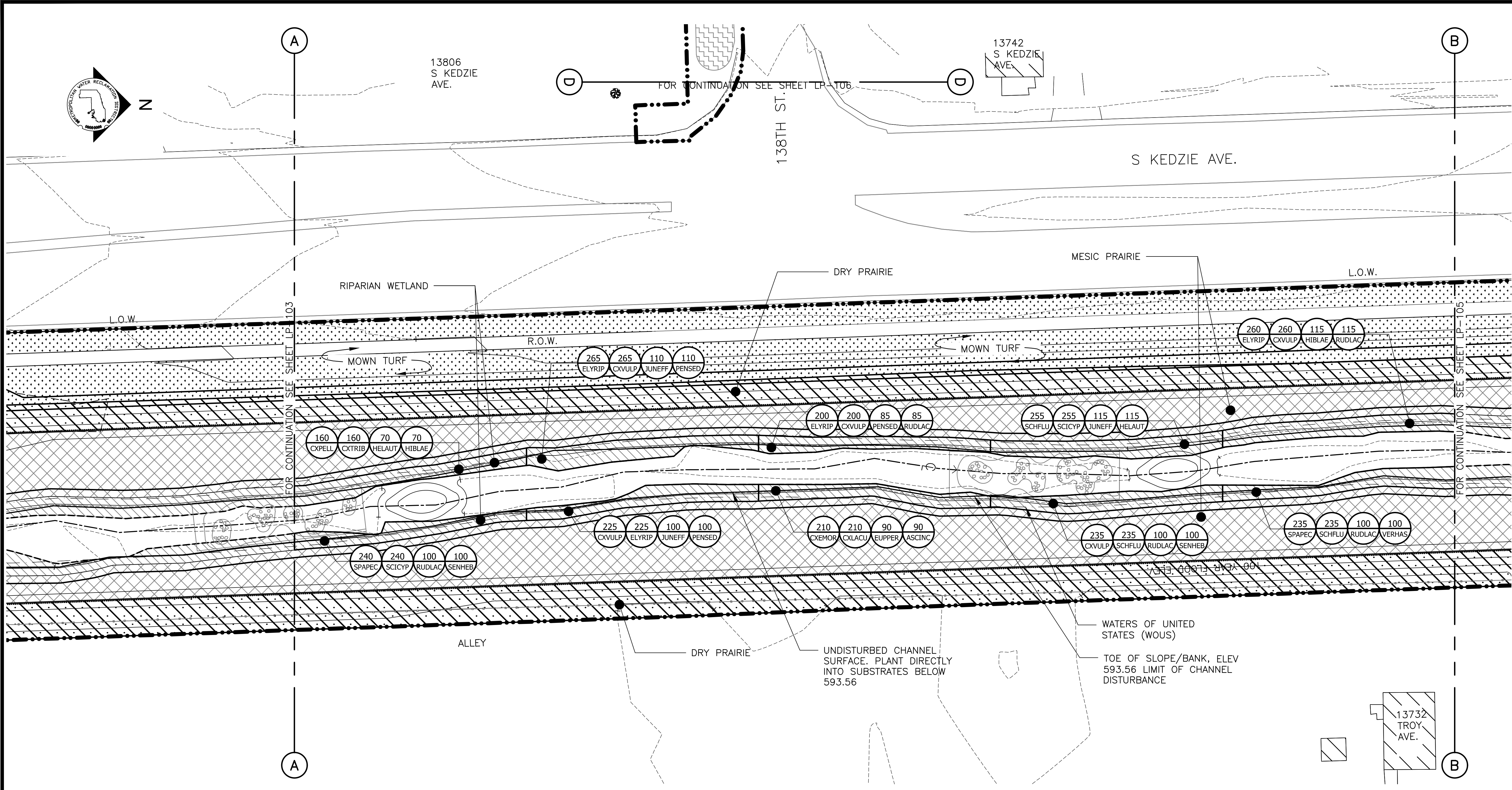
DONOHUE
 CONSULTING ENGINEERS

LIVING HABITATS

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

Sheet Number:
LP-104
 Page Number: 147

PLOT DATE: 8/13/2024 11:59 AM PLOTTED BY: HANNAH CUSICK
 P:\16-105_Robbins Park - MWRD\04_CAD\14-253-5F Landscape\Sheets\14-253-BF\LP-105.dwg 1/17/2024 4:10 PM



PARTIAL GROUNDPLANE PLANTING PLAN
 SCALE = 1"=20'

PLANTING NOTES:

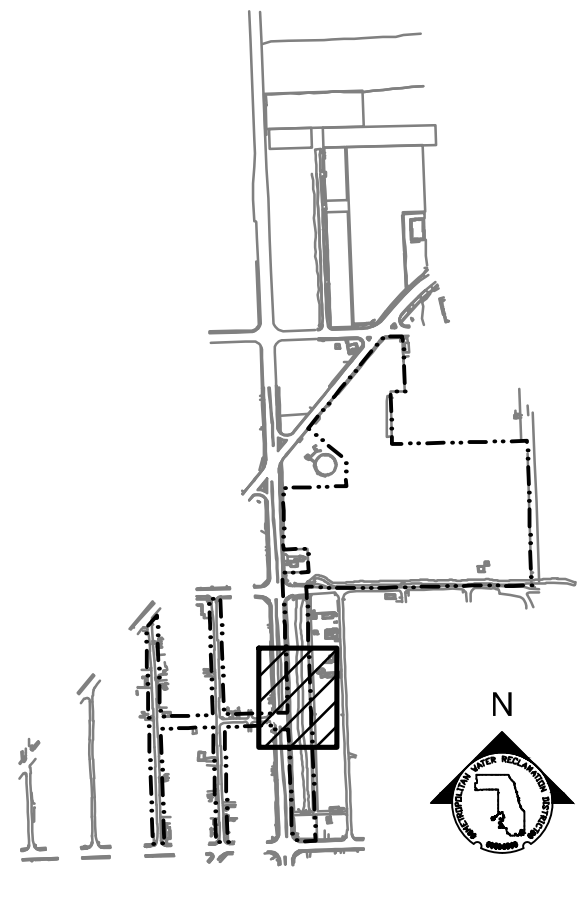
1. REFERENCE NOTES ON LANDSCAPE DRAWING LP-101
2. FOR PLANTING SCHEDULE, REFERENCE DRAWING LP-110

LEGEND:

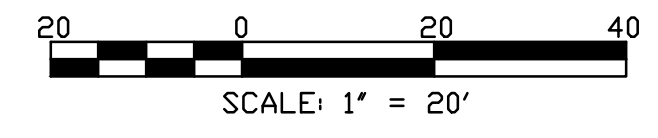
- L.O.W. LIMIT OF WORK
- W.O.U.S. WATERS OF UNITED STATES
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- STONE RIFFLES
- MOWN TURF
- RIPARIAN WETLAND
- MESIC PRAIRIE SEED MIX
- DRY PRAIRIE SEED MIX

GENERAL NOTES:

1. SEE UTILITY DRAWINGS FOR CULVERT AND UNDERDRAIN INFORMATION



KEY MAP



| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| 1 | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

Designed by: LH
 Checked by: LH
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 Reviewed by: LH
 Date: MAY 2024
 Scale: AS SHOWN

LIVING HABITATS

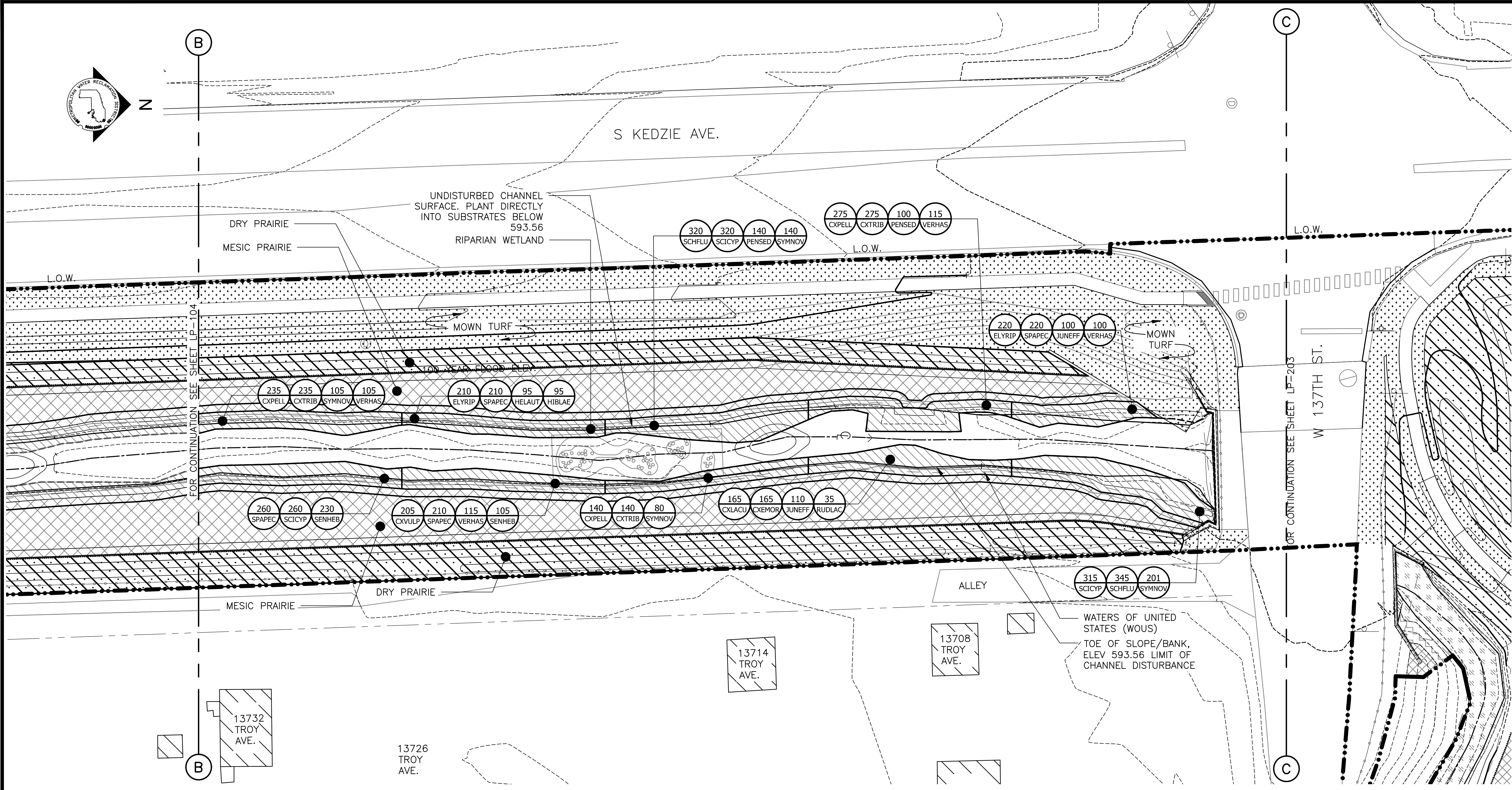
DONOHUE
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Sheet Number:
LP-105

Page Number: 148

P:\16-105_Robbins Park - MWRD\04_CAD\14-253-3F\landscape\Sheets\14-253-BF\LP-106.dwg 5/16/2024 2:37 PM
 PLOT DATE: 8/13/2024 11:59 AM PLOTTED BY: HANNAH CUSICK



PLANTING NOTES:

1. REFERENCE NOTES ON LANDSCAPE DRAWING LP-101
2. FOR PLANTING SCHEDULE, REFERENCE DRAWING LP-110

LEGEND:

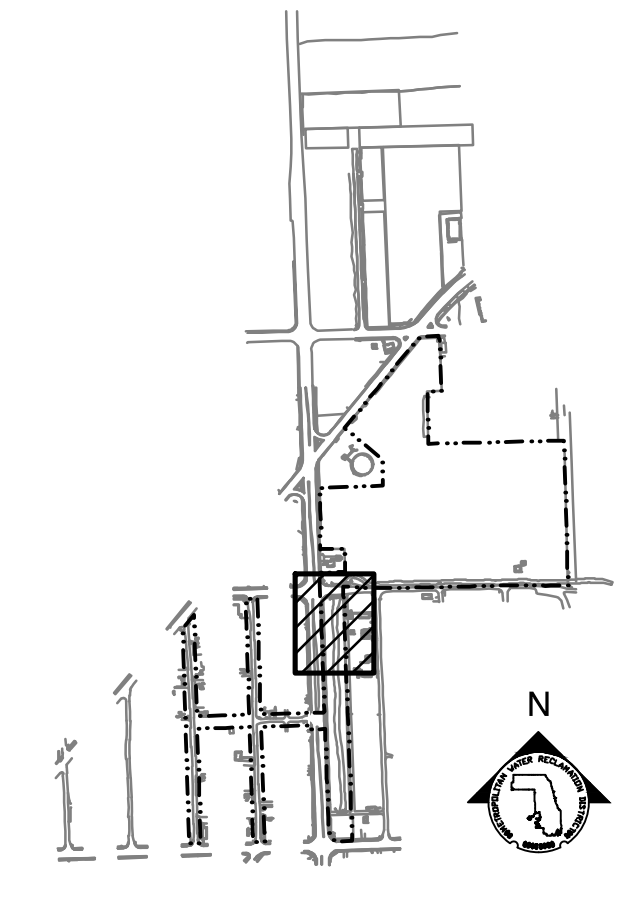
- L.O.W. --- LIMIT OF WORK
- WOUS --- WATERS OF UNITED STATES
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- [Symbol] STONE RIFFLES
- [Symbol] MOWN TURF
- [Symbol] RIP RAP
- [Symbol] RIPARIAN WETLAND
- [Symbol] MESIC PRAIRIE SEED MIX
- [Symbol] DRY PRAIRIE SEED MIX

GENERAL NOTES:

1. SEE UTILITY DRAWINGS FOR CULVERT AND UNDERDRAIN INFORMATION

PARTIAL GROUNDPLANE PLANTING PLAN

SCALE = 1"=20'



KEY MAP

SCALE: 1" = 20'

| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

Designed by: LH
 Checked by: LH
 Drawn by: LH
 Reviewed by: LH
 Date: MAY 2024
 Scale: AS SHOWN

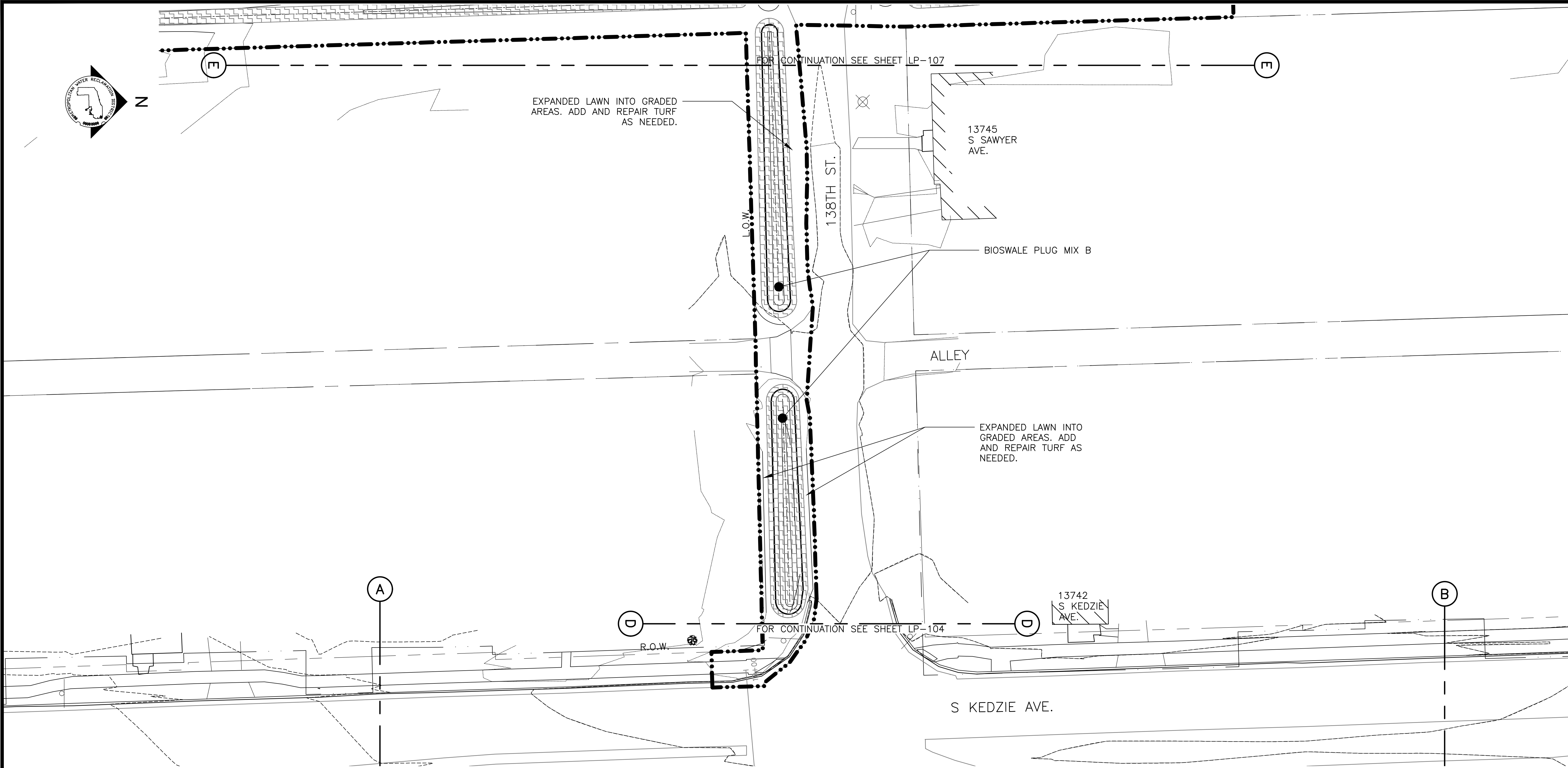
DONOHUE
 Accurate
 ENGINEERS & ASSOCIATES, INC.
 CONSULTING ENGINEERS

LIVING HABITATS

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

Sheet Number:
LP-106
 Page Number: 149

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PARTIAL GROUNDPLANE PLANTING PLAN
SCALE = 1"=20'

PLANTING NOTES:

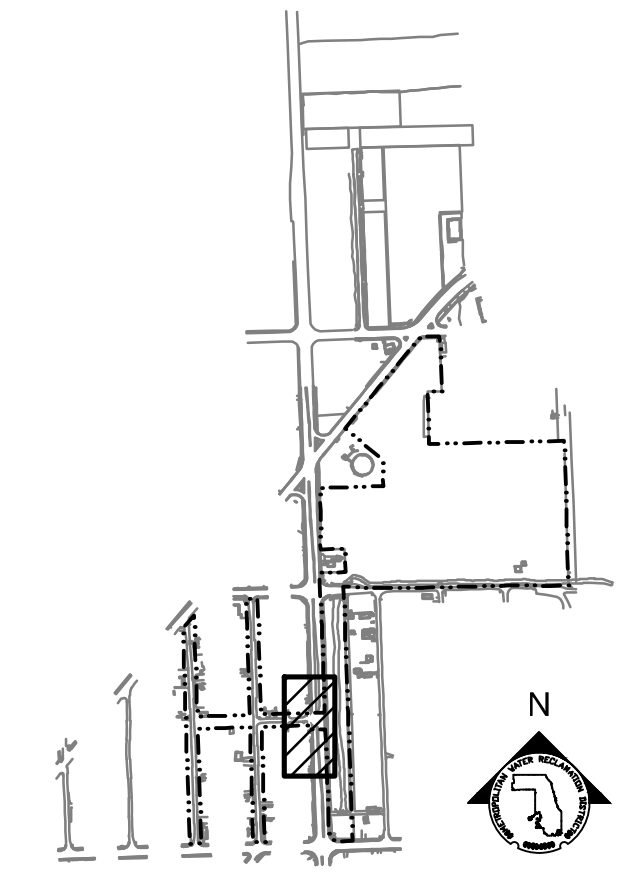
1. REFERENCE NOTES ON LANDSCAPE DRAWING LP-101
2. FOR PLANTING SCHEDULE, REFERENCE DRAWING LP-110

GENERAL NOTES:

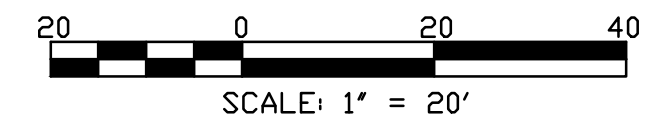
1. SEE UTILITY DRAWINGS FOR CULVERT AND UNDERDRAIN INFORMATION

LEGEND:

- L.O.W. LIMIT OF WORK
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- BIOSWALE PLUG MIX B



KEY MAP



METROPOLITAN WATER RECLAMATION DISTRICT
OF GREATER CHICAGO

CONTRACT 14-253-5FR
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

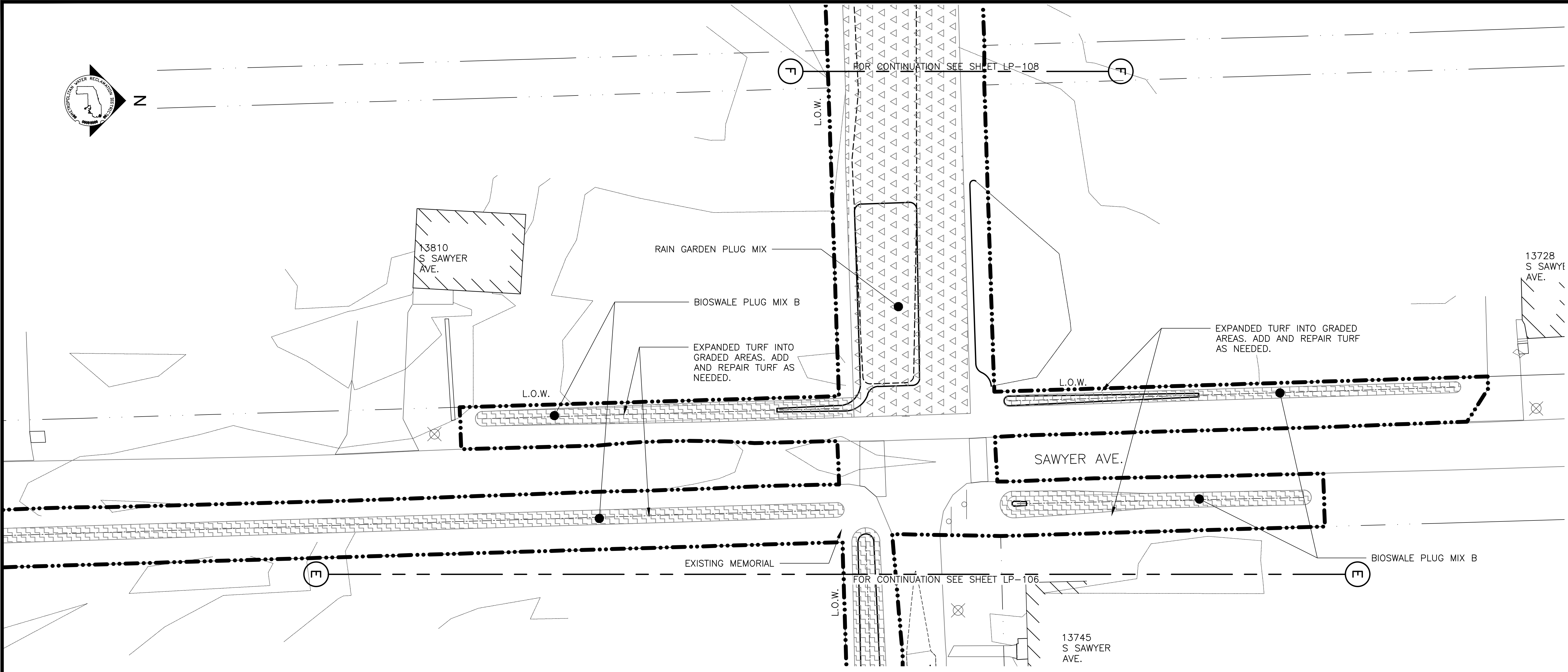
Sheet Number:
LP-107
Page Number: 150

| Rev. | Description | Appr. | Date |
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| | ISSUE FOR CONSTRUCTION | LH | 08/2024 |
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DONOHUE
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| Designed by: | Checked by: |
| LH | LH |
| Drawn by: | Reviewed by: |
| LH | LH |
| Date: | Scale: |
| MAY 2024 | AS SHOWN |

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 PLOT DATE: 8/13/2024 12:01 PM PLOTTED BY: HANNAH CUSICK



PARTIAL GROUNDPLANE PLANTING PLAN
 SCALE = 1"=20'

PLANTING NOTES:

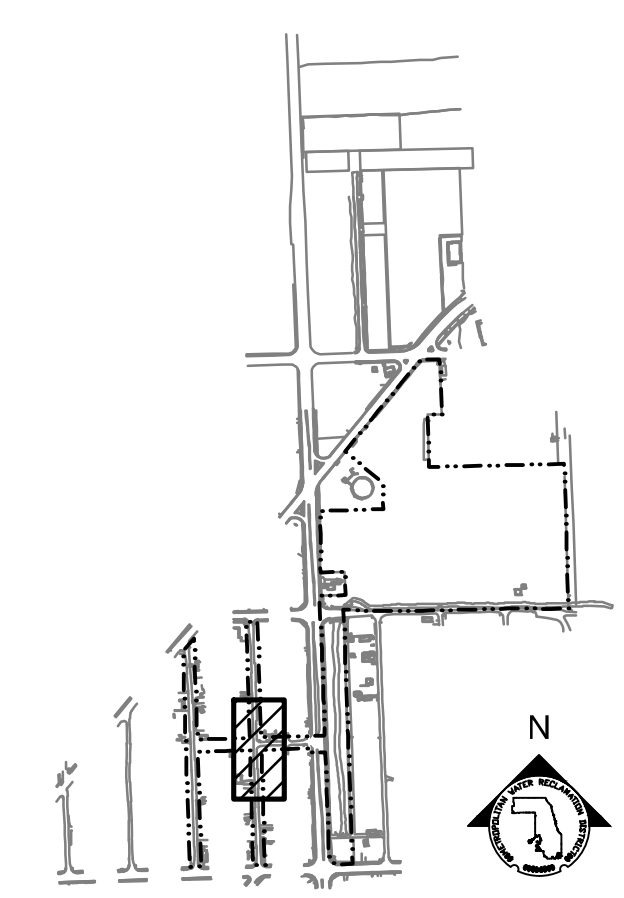
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2. FOR PLANTING SCHEDULE, REFERENCE DRAWINGS LP-109 & LP-110

GENERAL NOTES:

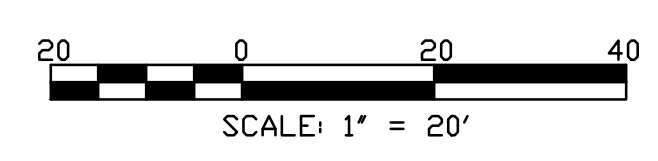
1. SEE UTILITY DRAWINGS FOR CULVERT AND UNDERDRAIN INFORMATION

LEGEND:

- L.O.W. LIMIT OF WORK
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- BIOSWALE PLUG MIX B
- RAIN GARDEN PLUG MIX



KEY MAP



| Rev. | Description | Appr. | Date |
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METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5FR
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 LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

Designed by: LH
 Checked by: LH
 Drawn by: LH
 Date: MAY 2024

Reviewed by: LH
 Scale: AS SHOWN

LIVING HABITATS

DONOHUE
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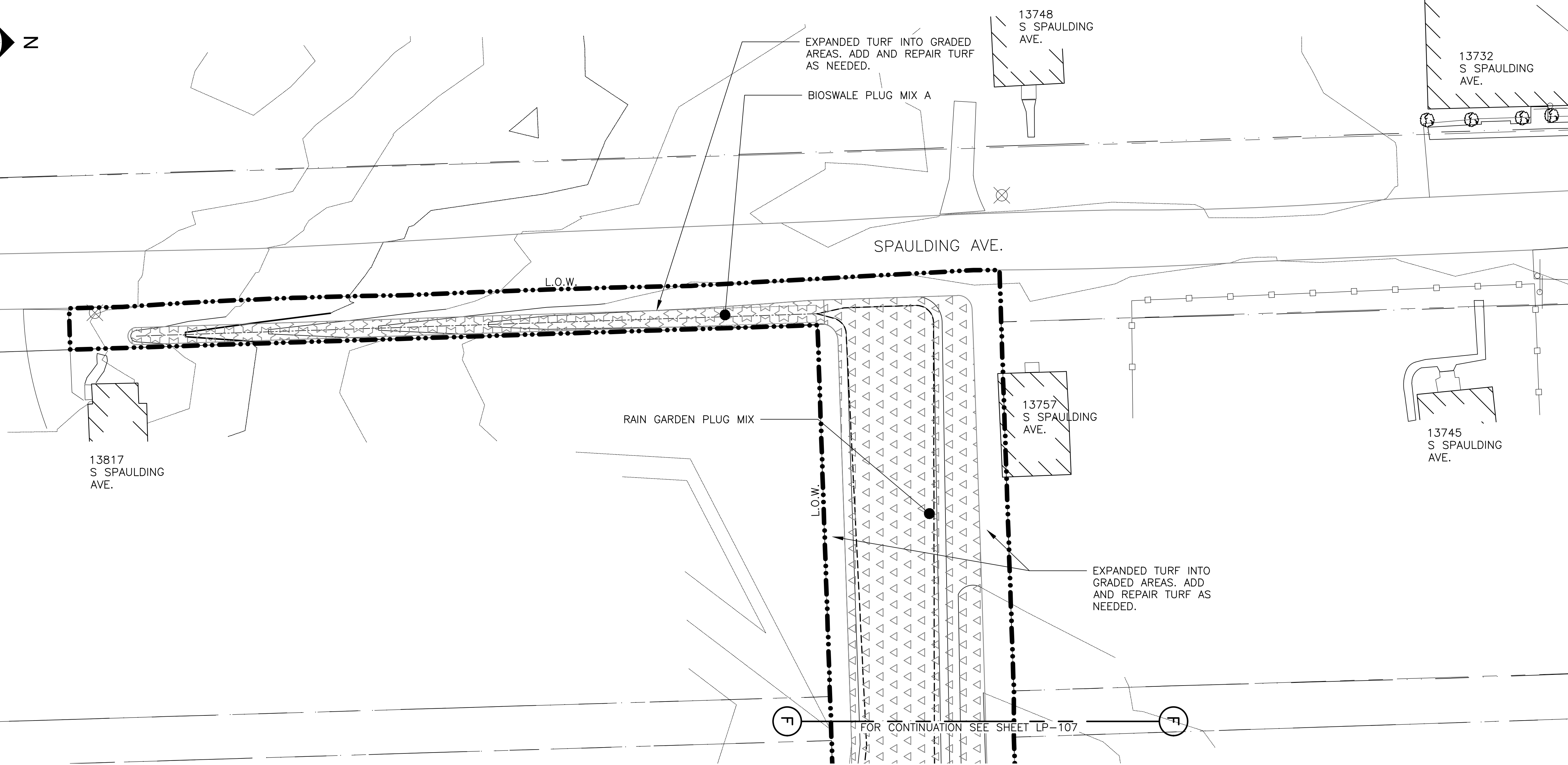
ZIM
 ENGINEERS

GREEN & ASSOCIATES, INC.
 CONSULTING ENGINEERS

Sheet Number:
LP-108

Page Number: 151

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PARTIAL GROUNDPLANE PLANTING PLAN
 SCALE = 1"=20'

PLANTING NOTES:

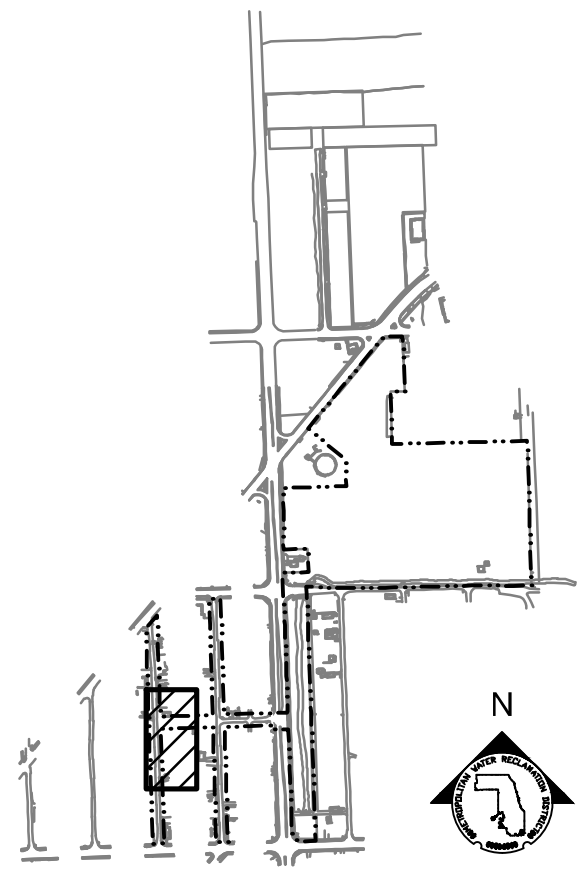
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2. FOR PLANTING SCHEDULE, REFERENCE DRAWING LP-110

GENERAL NOTES:

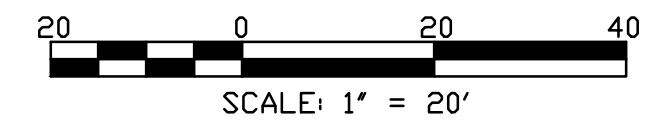
1. SEE UTILITY DRAWINGS FOR CULVERT AND UNDERDRAIN INFORMATION

LEGEND:

- L.O.W. LIMIT OF WORK
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- BIOSWALE PLUG MIX A
- BIOSWALE PLUG MIX B
- RAIN GARDEN PLUG MIX



KEY MAP



| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| 1 | ISSUE FOR CONSTRUCTION | LH | 08/2024 |
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METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

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 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

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 ENGINEERS & ASSOCIATES, INC.
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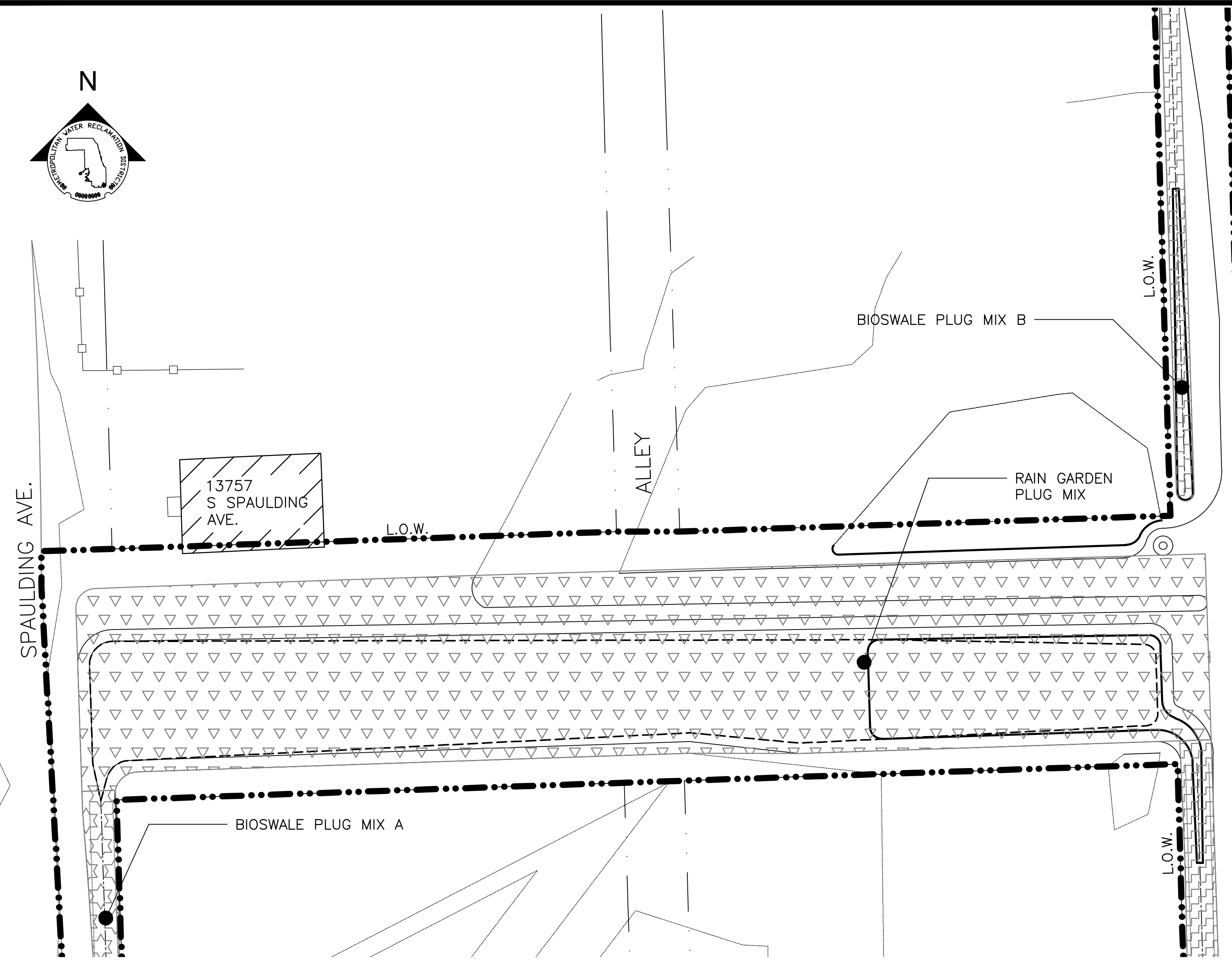
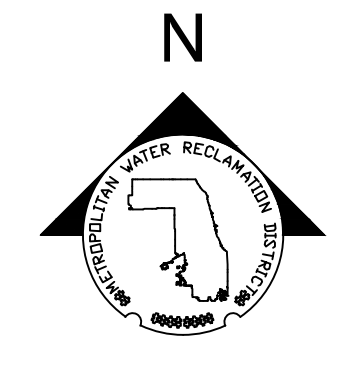
LIVING HABITATS

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| Designed by: LH | Checked by: LH |
| Drawn by: LH | Reviewed by: LH |
| Date: MAY 2024 | Scale: AS SHOWN |

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

Sheet Number:
LP-109
 Page Number: 152

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 PLOT DATE: 8/13/2024 12:02 PM PLOTTED BY: HANNAH CUSICK



PARTIAL GROUNDPLANE PLANTING PLAN
 SCALE = 1"=20'

| RAIN GARDEN PLUG LIST | | | | | | | |
|-----------------------|------|------------------------------------|--|----------------------------|-------------------|-----------------------|-------------------------|
| ABBREVIATION | QTY | SCIENTIFIC NAME | HISTORIC SYNONYMS | COMMON NAME | WETLAND INDICATOR | VEGETATIVE PHYSIOLOGY | SPACING 'D', SEE LP-502 |
| ASCINC | 610 | <i>Asclepias incarnata</i> | | SWAMP MILKWEED | OBL | P-FORB | 12" O.C. |
| CXEMOR | 1020 | <i>Carex emoryi</i> | | RIVERBANK SEDGE | OBL | P-SEDE | 12" O.C. |
| CXLACU | 1020 | <i>Carex lacustris</i> | | COMMON LAKE SEDGE | OBL | P-SEDE | 12" O.C. |
| CXPELL | 2040 | <i>Carex pellita</i> | | BROAD-LEAVED WOOLLY SEDGE | OBL | P-SEDE | 12" O.C. |
| CXTRIB | 1020 | <i>Carex tribuloides</i> | | AWL-FRUITED OVAL SEDGE | OBL | P-SEDE | 12" O.C. |
| CXVULP | 1020 | <i>Carex vulpinoidea</i> | | BROWN FOX SEDGE | FACW | P-SEDE | 12" O.C. |
| ELYRIP | 1020 | <i>Elymus riparius</i> | | RIVERBANK WILD RYE | FACW | P-GRASS | 12" O.C. |
| EUPPER | 610 | <i>Eupatorium perfoliatum</i> | | COMMON BONESET | FACW | P-FORB | 12" O.C. |
| HELAUT | 610 | <i>Helenium autumnale</i> | | SNEEZEWEED | FACW | P-FORB | 12" O.C. |
| HIBLAE | 610 | <i>Hibiscus laevis</i> | | HALBERD-LEAVED ROSE MALLOW | OBL | P-FORB | 12" O.C. |
| JUNEFF | 610 | <i>Juncus effusus</i> | | COMMON RUSH | OBL | P-FORB | 12" O.C. |
| PENSED | 610 | <i>Penthorum sedoides</i> | | DITCH STONECROP | OBL | P-FORB | 12" O.C. |
| RUDLAC | 610 | <i>Rudbeckia laciniata</i> | | WILD GOLDEN GLOW | FACW | P-FORB | 12" O.C. |
| SCHFLU | 1020 | <i>Schoenoplectus fluviatilis</i> | <i>Scirpus fluviatilis</i> ; <i>Bolboschoenus fluviatilis</i> | RIVER BULRUSH | OBL | P-SEDE | 12" O.C. |
| SCICYP | 1020 | <i>Scirpus cyperinus</i> | | WOOL GRASS | OBL | P-SEDE | 12" O.C. |
| SENHEB | 610 | <i>Senna hebecarpa</i> | <i>Cassia hebecarpa</i> | WILD SENNA | FACW | P-FORB | 12" O.C. |
| SPAPEC | 1020 | <i>Spartina pectinata</i> | | PRAIRIE CORDGRASS | FACW | P-GRASS | 12" O.C. |
| SYMNOV | 610 | <i>Symphotrichum novae-angliae</i> | <i>Aster novae-angliae</i> | NEW ENGLAND ASTER | FACW | P-FORB | 12" O.C. |
| VERHAS | 610 | <i>Verbena hastata</i> | | BLUE VERVAIN | FACW | P-FORB | 12" O.C. |

GENERAL NOTES:

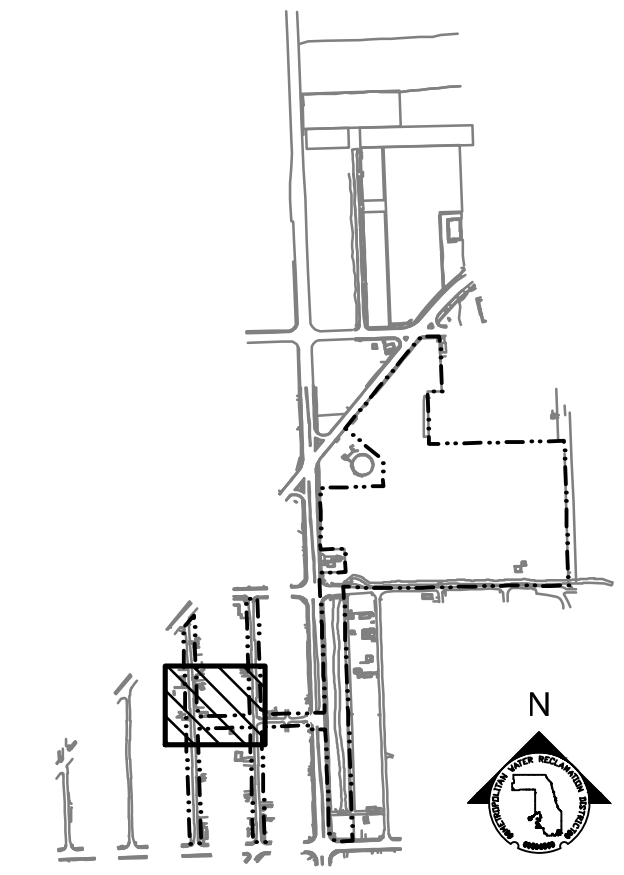
- SEE UTILITY DRAWINGS FOR CULVERT AND STORM SEWER INFORMATION.

PLANTING NOTES:

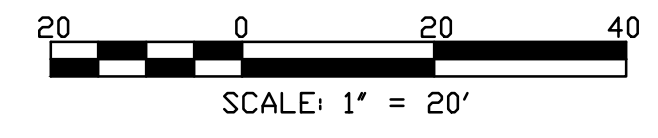
- REFERENCE NOTES ON LANDSCAPE DRAWING LP-101.
- REFERENCE PLANTING SCHEDULES ON LP-110.

LEGEND:

- L.O.W. LIMIT OF WORK
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- RAIN GARDEN PLUG MIX
- BIOSWALE PLUG MIX A
- BIOSWALE PLUG MIX B



KEY MAP



SCALE: 1" = 20'

| Rev. | Description | Appr. | Date |
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| 01 | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

Designed by: LH
 Checked by: LH
 Drawn by: LH
 Reviewed by: LH
 Date: MAY 2024
 Scale: AS SHOWN

Accurate
 CONSULTING ENGINEERS

DONOHUE
 ENGINEERS & ARCHITECTS, INC.

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 CONSULTING ENGINEERS

LIVING HABITATS

GROUND COVER PLANTING SCHEDULE: MIDLOTHIAN CREEK (139TH-137TH)

| RIPARIAN WETLAND PLUG LIST | | | | | | | |
|----------------------------|------|-----------------------------|--|----------------------------|-------------------|-----------------------|---------------------------|
| ABBREVIATION | QTY | SCIENTIFIC NAME | HISTORIC SYNONYMS | COMMON NAME | WETLAND INDICATOR | VEGETATIVE PHYSIOLOGY | SPACING 'D', SEE 3/LP-502 |
| ASCINC | 535 | Asclepias incarnata | | SWAMP MILKWEED | OBL | P-FORB | 12" O.C. |
| CXEMOR | 1195 | Carex emoryi | | RIVERBANK SEDGE | OBL | P-SEDEGE | 12" O.C. |
| CXLACU | 1195 | Carex lacustris | | COMMON LAKE SEDGE | OBL | P-SEDEGE | 12" O.C. |
| CXPELL | 1585 | Carex pellita | | BROAD-LEAVED WOOLLY SEDGE | OBL | P-SEDEGE | 12" O.C. |
| CXTRIB | 1585 | Carex tribuloides | | AWL-FRUITED OVAL SEDGE | OBL | P-SEDEGE | 12" O.C. |
| CXVULP | 1390 | Carex vulpinoidea | | BROWN FOX SEDGE | FACW | P-SEDEGE | 12" O.C. |
| ELYRIP | 1390 | Elymus riparius | | RIVERBANK WILD RYE | FACW | P-GRASS | 12" O.C. |
| EUPPER | 535 | Eupatorium perfoliatum | | COMMON BONESET | FACW | P-FORB | 12" O.C. |
| HELAUT | 535 | Helenium autumnale | | SNEEZEWEED | FACW | P-FORB | 12" O.C. |
| HIBLAE | 535 | Hibiscus laevis | | HALBERD-LEAVED ROSE MALLOW | OBL | P-FORB | 12" O.C. |
| JUNEFF | 535 | Juncus effusus | | COMMON RUSH | OBL | P-FORB | 12" O.C. |
| PENSED | 535 | Penthorum sedoides | | DITCH STONECROP | OBL | P-FORB | 12" O.C. |
| RUDLAC | 535 | Rudbeckia laciniata | | WILD GOLDEN GLOW | FACW | P-FORB | 12" O.C. |
| SCHFLU | 1390 | Schoenoplectus fluviatilis | Scirpus fluviatilis; Bolboschoenus fluviatilis | RIVER BULRUSH | OBL | P-SEDEGE | 12" O.C. |
| SCICYP | 1390 | Scirpus cyperinus | | WOOL GRASS | OBL | P-SEDEGE | 12" O.C. |
| SENHEB | 535 | Senna hebecarpa | Cassia hebecarpa | WILD SENNA | FACW | P-FORB | 12" O.C. |
| SPAPEC | 1380 | Spartina pectinata | | PRAIRIE CORDGRASS | FACW | P-GRASS | 12" O.C. |
| SYMNOV | 526 | Symphotrichum novae-angliae | Aster novae-angliae | NEW ENGLAND ASTER | FACW | P-FORB | 12" O.C. |
| VERHAS | 535 | Verbena hastata | | BLUE VERVAIN | FACW | P-FORB | 12" O.C. |

| MESIC PRAIRIE SEED MIXTURE | | | | | |
|----------------------------|-----------------|--------------------------------|--------------------------|-------------------|-----------------------|
| ABBREVIATION | QTY PLS OZ/ACRE | SCIENTIFIC NAME | COMMON NAME | WETLAND INDICATOR | VEGETATIVE PHYSIOLOGY |
| ALLCER | 4 | Allium cernuum | NODDING WILD ONION | FAC- | P-FORB |
| ANECAN | 4 | Anemone canadensis | MEADOW ANEMONE | FACW | P-FORB |
| AQUCAN | 4 | Aquilegia canadensis | WILD COLUMBINE | FAC- | P-FORB |
| ASCTUB | 4 | Asclepias tuberosa | BUTTERFLY MILKWEED | UPL | P-FORB |
| AVESAT | 640 | Avena sativa | OATS | UPL | A-GRASS |
| BAPALB | 2 | Baptisia alba var. macrophylla | WHITE WILD INDIGO | FACU+ | P-FORB |
| CAMSCI | 2 | Camassia scilloides | WILD HYACINTH | FAC+ | P-FORB |
| CORTRI | 4 | Coreopsis tripteris | TALL COREOPSIS | FAC | P-FORB |
| ELYCAN | 70 | Elymus canadensis | CANADA WILD RYE | FAC- | P-GRASS |
| ERYUC | 4 | Eryngium yuccifolium | RATTLESNAKE MASTER | FAC+ | P-FORB |
| EUPPER | 4 | Eupatorium perfoliatum | COMMON BONESET | FACW+ | P-FORB |
| GENAND | 2 | Gentiana andrewsii | BOTTLE GENTIAN | FACW | P-FORB |
| HEURIC | 2 | Heuchera richardsonii | PRAIRIE ALUM ROOT | FAC- | P-FORB |
| JUNDUD | 4 | Juncus dudleyi | DUDLEY'S RUSH | FAC | P-FORB |
| LESCAP | 8 | Lespedeza capitata | ROUND-HEADED BUSH CLOVER | FACU | P-FORB |
| LIAPYC | 8 | Liatris pycnostachya | PRAIRIE BLAZING STAR | FAC- | P-FORB |
| LIASPI | 8 | Liatris spicata | MARSH BLAZING STAR | FAC | P-FORB |
| MONFIS | 4 | Monarda fistulosa | WILD BERGAMOT | FACU | P-FORB |
| PENDIG | 4 | Penstemon digitalis | FLOXGLOVE BEARD TONGUE | FAC- | P-FORB |
| PHYVIR | 4 | Physostegia virginiana | OBEDIENT PLANT | UPL | P-FORB |
| POLREP | 4 | Polemonium reptans | JACOB'S LADDER | FAC | P-FORB |
| RATPIN | 4 | Ratibida pinnata | YELLOW CONEFLOWER | UPL | P-FORB |
| RUDSUB | 4 | Rudbeckia subtomentosa | SWEET BLACK EYED-SUSAN | FACU+ | P-FORB |
| SCHSCO | 70 | Schizachyrium scoparium | LITTLE BLUESTEM GRASS | FACU | P-GRASS |
| SILTER | 8 | Silphium terebinthinaceum | PRAIRIE DOCK | FACU | P-FORB |
| SYMERI | 4 | Symphotrichum ericoides | HEATHER ASTER | FACU- | P-FORB |
| THADAS | 4 | Thalictrum dasycarpum | SMOOTH MEADOW RUE | FACW- | P-FORB |
| TRAOHI | 8 | Tradescantia ohiensis | COMMON SPIDERWORT | UPL | P-FORB |
| VERVIR | 4 | Veronicastrum virginicum | CULVER'S ROOT | FAC | P-FORB |
| ZIZAUR | 4 | Zizia aurea | GOLDEN ALEXANDER | FAC+ | P-FORB |

| DRY PRAIRIE SEED MIXTURE | | | | | | |
|--------------------------|-----------------|---|---------------------------------------|------------------------------|-------------------|-----------------------|
| ABBREVIATION | QTY PLS OZ/ACRE | SCIENTIFIC NAME | HISTORIC SYNONYMS | COMMON NAME | WETLAND INDICATOR | VEGETATIVE PHYSIOLOGY |
| AMOCAN | 2 | Amorpha canescens | | LEAD PLANT | UPL | P-FORB |
| ASCTUB | 4 | Asclepias tuberosa | | BUTTERFLY WEED | UPL | P-FORB |
| ASCVER | 6 | Asclepias verticillata | | WHORLED MILKWEED | UPL | P-FORB |
| ASTCAN | 2 | Astragalus canadensis | | CANADIAN MILK VETCH | FAC | P-FORB |
| AVESAT | 640 | Avena sativa | | OATS | UPL | A-GRASS |
| BLECIL | 2 | Blephilia ciliata | | OHIO HORSE MINT | UPL | P-FORB |
| BOUCUR | 40 | Bouteloua curtipendula | | SIDE-OATS GRAMA | UPL | P-GRASS |
| BRIEUP | 2 | Brickellia eupatorioides var. corymbulosa | Kuhnia eupatorioides corymbulosa | FALSE BONESET | UPL | P-FORB |
| CXBICK | 5 | Carex bicknellii | | COPPER-SHOULDERED OVAL SEDGE | UPL | P-SEDEGE |
| CXMOLE | 5 | Carex molesta | | FIELD OVAL SEDGE | FAC | P-SEDEGE |
| CORPAL | 4 | Coreopsis palmata | | PRAIRIE COREOPSIS | UPL | P-FORB |
| DALCAN | 2 | Dalea candida | Petalostemum candidum | WHITE PRAIRIE CLOVER | UPL | P-FORB |
| DALPUR | 4 | Dalea purpurea | Petalostemum purpureum | PURPLE PRAIRIE CLOVER | UPL | P-FORB |
| DRYARG | 4 | Drymocallis arguta | Potentilla arguta | PRAIRIE CINQUEFOIL | FACU | P-FORB |
| ECHPAL | 4 | Echinacea pallida | | PURPLE CONEFLOWER | UPL | P-FORB |
| ELYCAN | 60 | Elymus canadensis | | CANADA WILD RYE | FAC- | P-GRASS |
| HELOCC | 2 | Helianthus occidentalis | | WESTERN SUNFLOWER | FACU | P-FORB |
| KOEMAC | 10 | Koeleria macrantha | Koeleria cristata | JUNE GRASS | UPL | P-GRASS |
| LESCAP | 4 | Lespedeza capitata | | ROUND-HEADED BUSH CLOVER | FACU | P-FORB |
| LIAASP | 4 | Liatris aspera | | ROUGH BLAZING STAR | UPL | P-FORB |
| MONFIS | 4 | Monarda fistulosa | | WILD BERGAMONT | FACU | P-FORB |
| MONPUN | 2 | Monarda punctata | | HORSE MINT | UPL | P-FORB |
| PENDIG | 4 | Penstemon digitalis | | FOXGLOVE BEARD TONGUE | FAC | P-FORB |
| PHYVIR | 4 | Physostegia virginiana arenaria | | OBEDIENT PLANT | FACW | P-FORB |
| RATPIN | 4 | Ratibida pinnata | | YELLOW CONEFLOWER | UPL | P-FORB |
| RUDHIR | 6 | Rudbeckia hirta | | BLACK-EYED SUSAN | FACU | P-FORB |
| RUEHUM | 2 | Ruellia humilis | | HAIRY RUELLIA | FACU | P-FORB |
| SCHSCO | 20 | Schizachyrium scoparium | Andropogon scoparius | LITTLE BLUESTEM GRASS | FACU | P-GRASS |
| SILINT | 4 | Silphium integrifolium var. deamii | | DEAM'S ROSIN WEED | UPL | P-FORB |
| SOLRIG | 2 | Solidago rigida | | STIFF GOLDENROD | FACU- | P-FORB |
| SOLSPE | 2 | Solidago speciosa | | SHOWY GOLDENROD | UPL | P-FORB |
| SOLPTA | 4 | Solidago ptarmicoides | Aster ptarmicoides; Oligoneuron album | STIFF ASTER | UPL | P-FORB |
| SPOHET | 5 | Sporobolus heterolepis | | PRAIRIE DROPSEED | FACU | P-GRASS |
| SYMLAE | 4 | Symphotrichum laeve | Aster laevis | SMOOTH BLUE ASTER | UPL | P-FORB |
| SYMOOL | 4 | Symphotrichum oolentangiense | Aster azureus | SKY-BLUE ASTER | UPL | P-FORB |
| TRAOHI | 2 | Tradescantia ohiensis | | COMMON SPIDERWORT | FACU+ | P-FORB |
| ZIZAPT | 2 | Zizia aptera | | HEART-LEAVED MEADOW PARSNIP | FACU | P-FORB |

| BIOSWALE PLUG MIX A | | | | | | | |
|---------------------|------|------------------------|-------------------|------------------|-------------------|-----------------------|---------------------------|
| ABBREVIATION | QTY | SCIENTIFIC NAME | HISTORIC SYNONYMS | COMMON NAME | WETLAND INDICATOR | VEGETATIVE PHYSIOLOGY | SPACING 'D', SEE 3/LP-502 |
| ASCINC | 941 | Asclepias incarnata | | SWAMP MILKWEED | OBL | P-FORB | 12" O.C. |
| SPOHET | 1411 | Sporobolus heterolepis | | PRAIRIE DROPSEED | FACU | P-GRASS | 12" O.C. |

| BIOSWALE PLUG MIX B | | | | | | | |
|---------------------|------|-----------------------------|---------------------|-------------------|-------------------|-----------------------|---------------------------|
| ABBREVIATION | QTY | SCIENTIFIC NAME | HISTORIC SYNONYMS | COMMON NAME | WETLAND INDICATOR | VEGETATIVE PHYSIOLOGY | SPACING 'D', SEE 3/LP-502 |
| CXEMOR | 4606 | Carex emoryi | | RIVERBANK SEDGE | OBL | P-SEDEGE | 12" O.C. |
| SYMNOV | 6909 | Symphotrichum novae-angliae | Aster novae-angliae | NEW ENGLAND ASTER | FACW | P-FORB | 12" O.C. |

| | | | |
|------|------------------------|-------|----------|
| Rev. | Description | Appr. | Date |
| | ISSUE FOR CONSTRUCTION | LH | 08/20/24 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5FR
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
LITTLE CALUMET RIVER WATERSHED
PLANTING SCHEDULE

Checked by: LH
Reviewed by: LH
Designed by: LH
Drawn by: LH
Date: MAY 2024
Scale: AS SHOWN

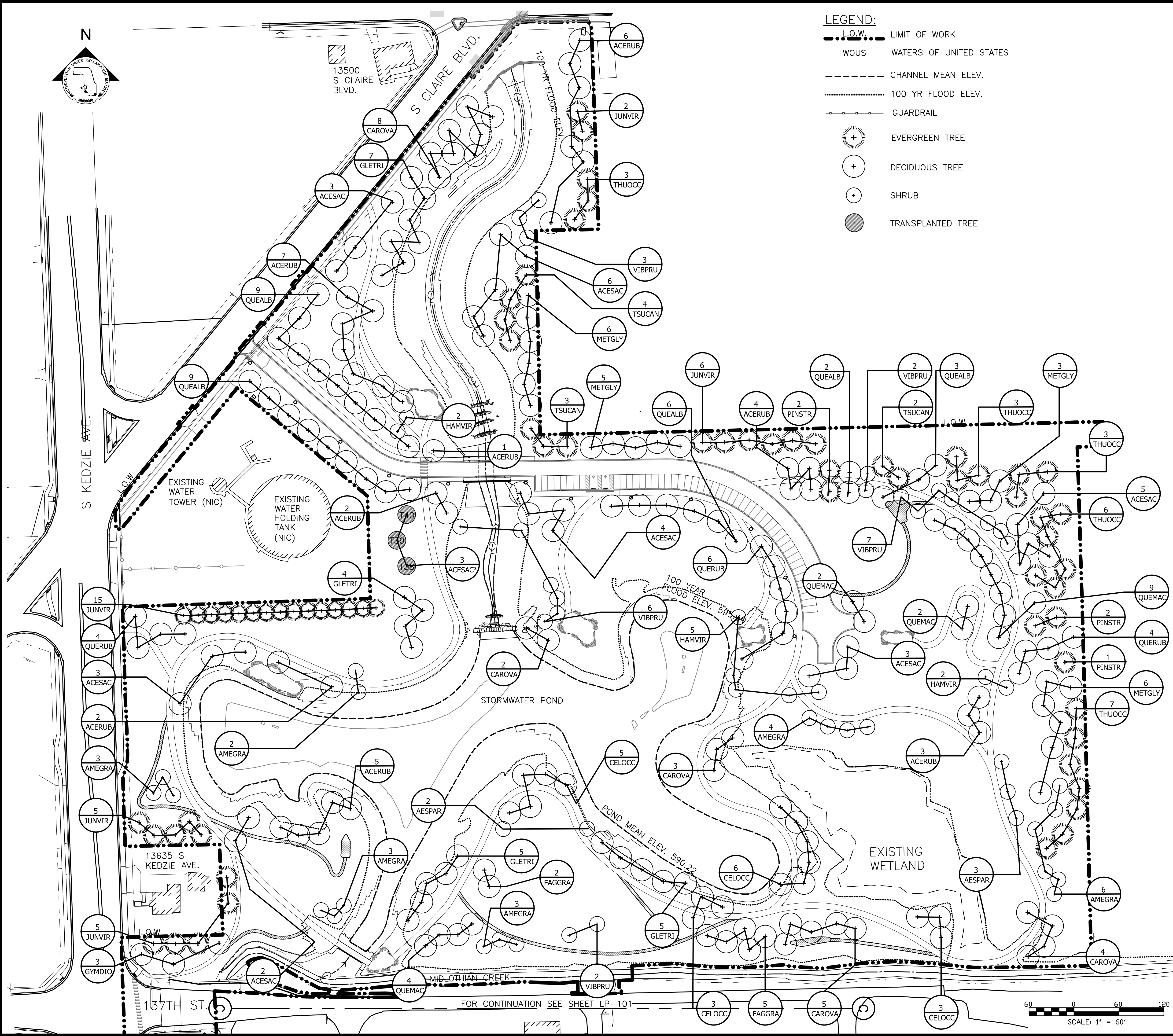
Sheet Number:
LP-111

Page Number: 154

PLOT DATE: 8/13/2024 12:03 PM PLOTTED BY: HANNAH CUSICK
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PLOT DATE: 8/13/2024 12:03 PM PLOTTED BY: HANNAH CUSICK

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- LEGEND:**
- - - - - L.O.W. LIMIT OF WORK
 - - - - - W.O.U.S. WATERS OF UNITED STATES
 - - - - - CHANNEL MEAN ELEV.
 - - - - - 100 YR FLOOD ELEV.
 - - - - - GUARDRAIL
 - ⊕ EVERGREEN TREE
 - ⊕ DECIDUOUS TREE
 - ⊕ SHRUB
 - TRANSPLANTED TREE

- PLANTING NOTES:**
- REFERENCE NOTES ON PLANTING DRAWING LP-101.
 - REFERENCE TREE PLANTING SCHEDULE LP-221.

| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| 1 | ISSUE FOR CONSTRUCTION | LH | 09/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5FR

FLOOD CONTROL PROJECT ON MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID) LITTLE CALUMET RIVER WATERSHED

TREE PLANTING PLAN

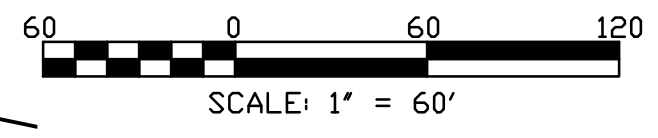
Designed by: LH
 Checked by: LH
 Drawn by: LH
 Reviewed by: LH
 Date: MAY 2024
 Scale: AS SHOWN

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 CONSULTING ENGINEERS

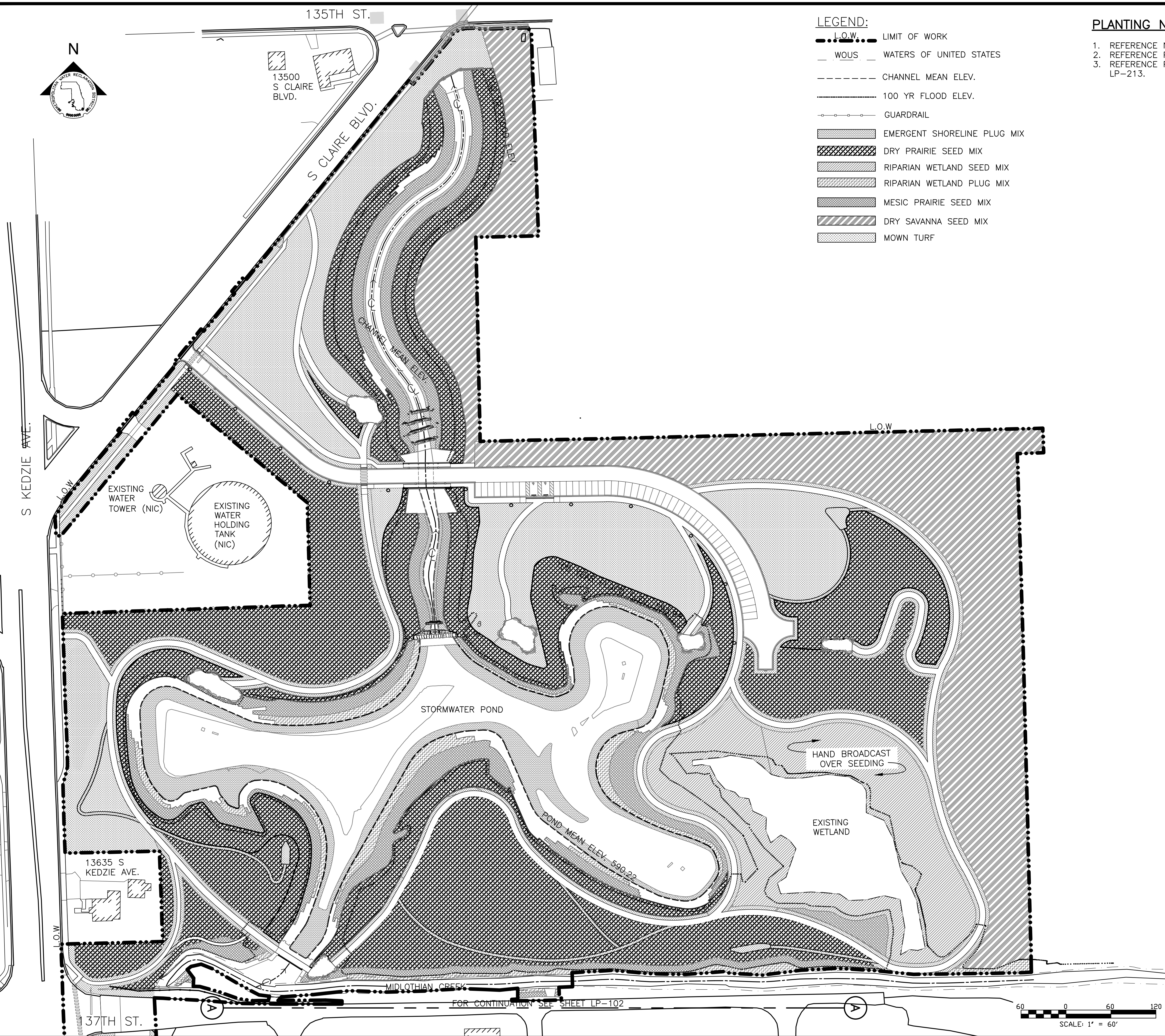
CONTRACT 14-253-5FR

FLOOD CONTROL PROJECT ON MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID) LITTLE CALUMET RIVER WATERSHED

TREE PLANTING PLAN



PLOT DATE: 8/13/2024 1:28 PM PLOTTED BY: HANNAH CUSICK
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- LEGEND:**
- L.O.W. --- LIMIT OF WORK
 - W.O.U.S. --- WATERS OF UNITED STATES
 - CHANNEL MEAN ELEV.
 - 100 YR FLOOD ELEV.
 - GUARDRAIL ---
 - [Pattern] EMERGENT SHORELINE PLUG MIX
 - [Pattern] DRY PRAIRIE SEED MIX
 - [Pattern] RIPARIAN WETLAND SEED MIX
 - [Pattern] RIPARIAN WETLAND PLUG MIX
 - [Pattern] MESIC PRAIRIE SEED MIX
 - [Pattern] DRY SAVANNA SEED MIX
 - [Pattern] MOWN TURF

- PLANTING NOTES:**
1. REFERENCE NOTES ON PLANTING DRAWING LP-101.
 2. REFERENCE PLANTING SCHEDULES ON LP-222 AND LP-223.
 3. REFERENCE PARTIAL PLANTING PLANS ON LP-203 THROUGH LP-213.

| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| | ISSUE FOR CONSTRUCTION | LH | 08/2024 |
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**METROPOLITAN WATER RECLAMATION DISTRICT
OF GREATER CHICAGO**

Designed by: LH
 Drawn by: LH
 Date: MAY 2024

Checked by: LH
 Reviewed by: LH
 Scale: AS SHOWN

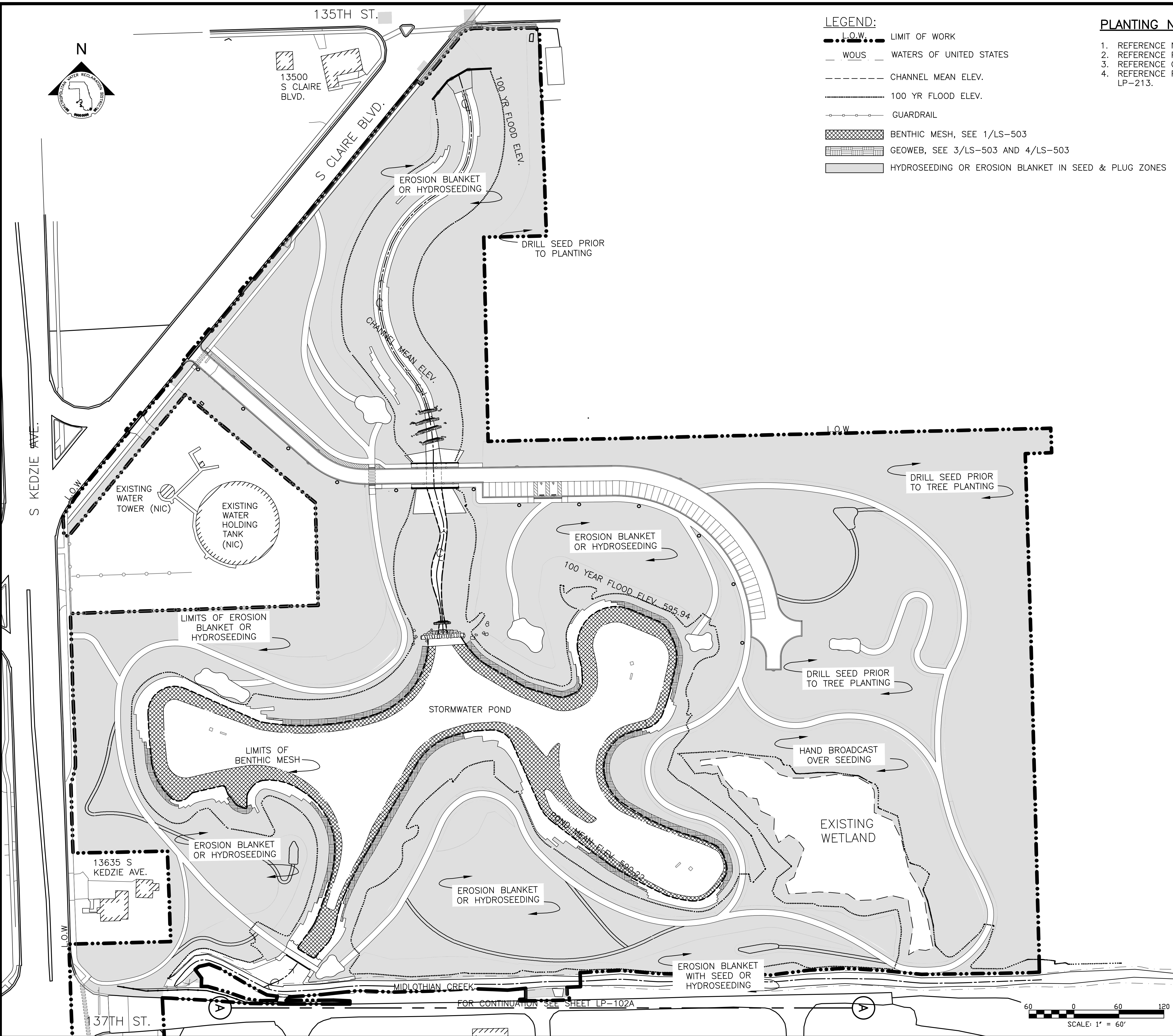
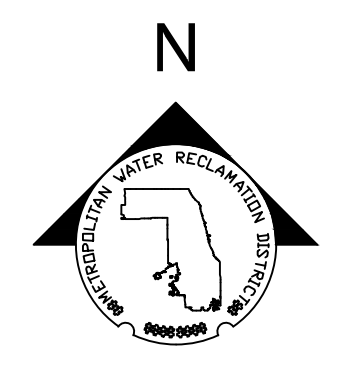
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LIVING HABITATS

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
GROUNDPLANE PLANTING PLAN

Sheet Number:
LP-202
 Page Number: 156

PLOT DATE: 8/13/2024 1:29 PM PLOTTED BY: HANNAH CUSICK
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- LEGEND:**
- L.O.W. LIMIT OF WORK
 - W.O.U.S. WATERS OF UNITED STATES
 - CHANNEL MEAN ELEV.
 - 100 YR FLOOD ELEV.
 - GUARDRAIL
 - BENTHIC MESH, SEE 1/LS-503
 - GEOWEB, SEE 3/LS-503 AND 4/LS-503
 - HYDROSEEDING OR EROSION BLANKET IN SEED & PLUG ZONES

- PLANTING NOTES:**
1. REFERENCE NOTES ON PLANTING DRAWING LP-101.
 2. REFERENCE PLANTING SCHEDULES ON LP-222 AND LP-223.
 3. REFERENCE GROUNDPLANE PLANTING PLANS ON LP-202.
 4. REFERENCE PARTIAL PLANTING PLANS ON LP-203 THROUGH LP-213.

| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

**METROPOLITAN WATER RECLAMATION DISTRICT
OF GREATER CHICAGO**

Designed by: LH
 Checked by: LH
 Drawn by: LH
 Date: MAY 2024

Reviewed by: LH
 Scale: AS SHOWN

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CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
EROSION AND SHORELINE PROTECTION PLAN

Sheet Number:
LP-203
 Page Number: 157

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 PLOT DATE: 8/13/2024 12:06 PM PLOTTED BY: HANNAH CUSICK



G

C

S KEDZIE AVE.

W 137TH ST.

TROY AVE

E

E

FOR CONTINUATION SEE SHEET LP-206

FOR CONTINUATION SEE SHEET LP-105

10'-0" SHELF TYP.

FOR CONTINUATION SEE SHEET LP-207

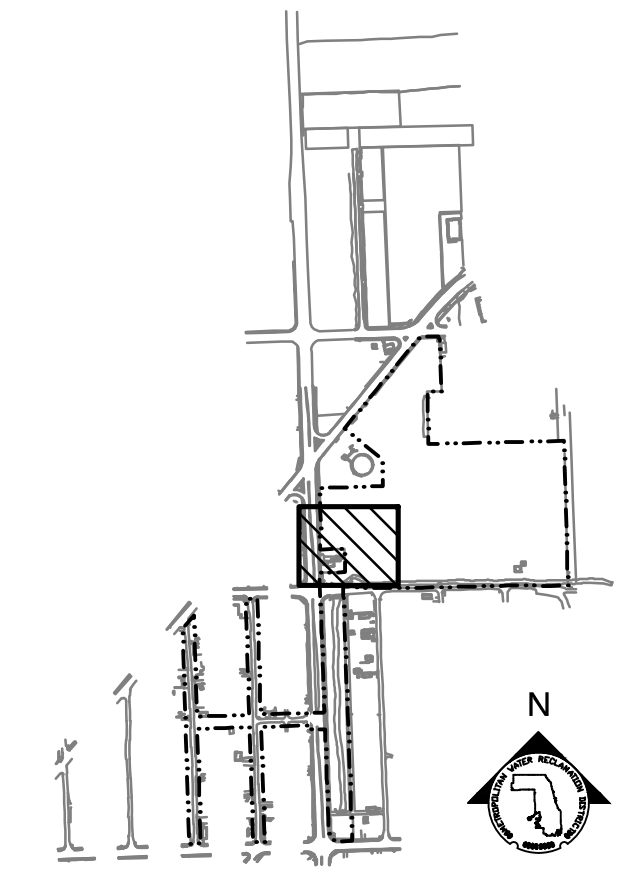
PLANTING NOTES:

1. REFERENCE NOTES ON LANDSCAPE DRAWING LP-101
2. FOR PLANTING SCHEDULES, REFERENCE DRAWINGS LP-222 & LP-223.

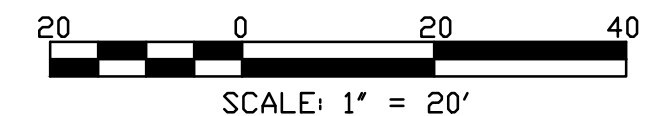
LEGEND:

- L.O.W. LIMIT OF WORK
- WOUS WATERS OF UNITED STATES
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- (600) EXISTING CONTOUR
- 600 PROPOSED CONTOUR
- GUARDRAIL
- DREDGE CHANNEL
- SIDEWALK, SEE LM SERIES FOR MATERIALS/FINISHES
- RIP RAP
- EMERGENT SHORELINE PLUG MIX
- DRY PRAIRIE SEED MIX
- RIPARIAN WETLAND SEED MIX
- MESIC PRAIRIE SEED MIX
- DRY SAVANNA SEED MIX
- RIPARIAN WETLAND PLUG MIX
- MOWN TURF PATH/LANDING

PARTIAL GROUNDPLANE PLANTING PLAN
 SCALE = 1"=20'



KEY MAP



SCALE: 1" = 20'



| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| 1 | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

Designed by: LH
 Drawn by: LH
 Date: MAY 2024

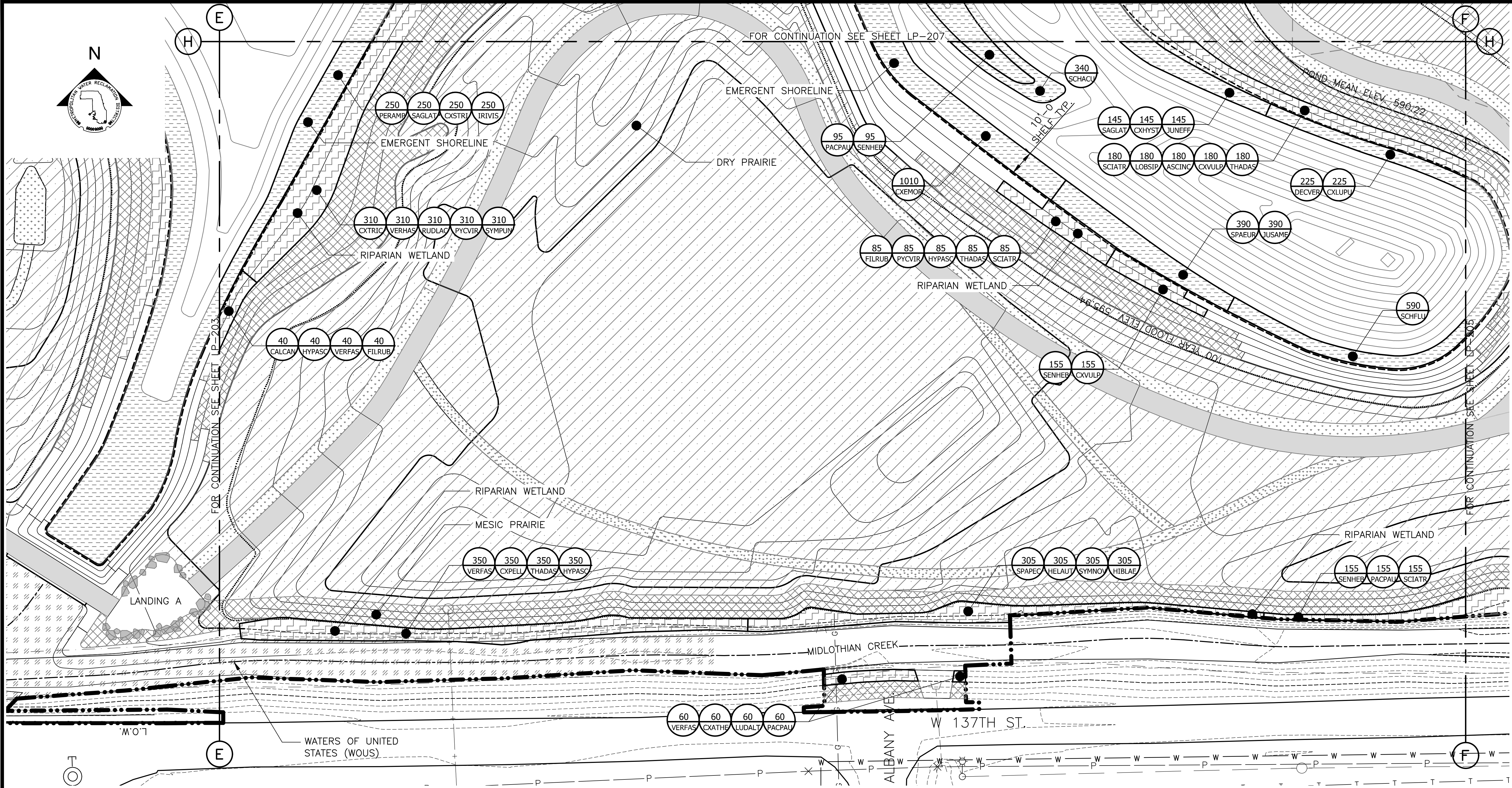
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 Scale: AS SHOWN

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CONTRACT 14-253-5FR
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
 LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

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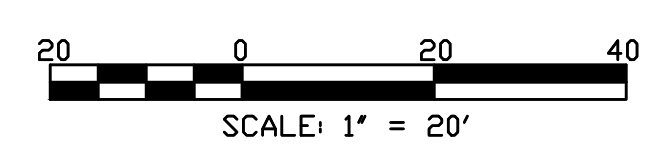
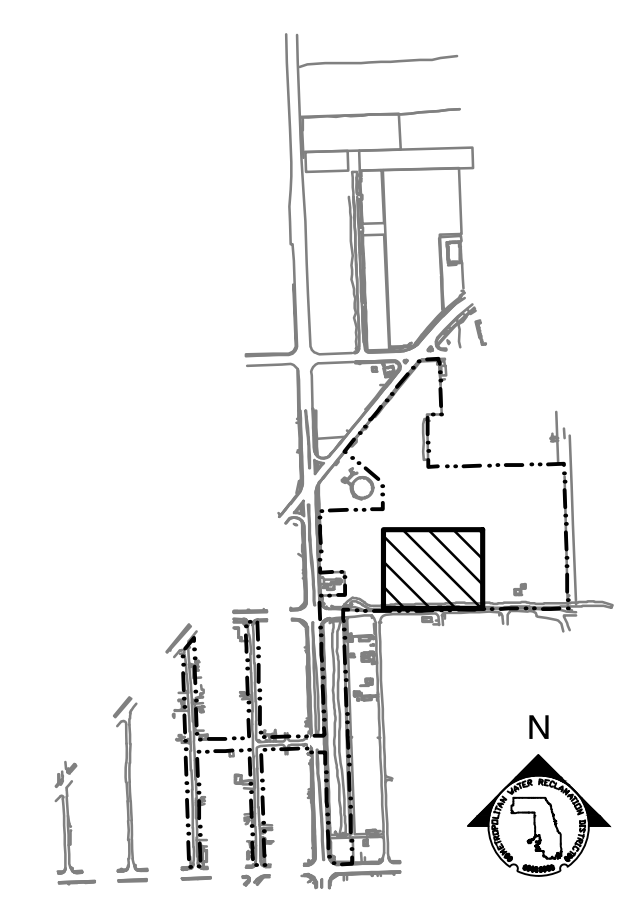
PLANTING NOTES:

1. REFERENCE NOTES ON LANDSCAPE DRAWING LP-101
2. FOR PLANTING SCHEDULES, REFERENCE DRAWINGS LP-222 & LP-223.

LEGEND:

- L.O.W. --- LIMIT OF WORK
- W.O.U.S. --- WATERS OF UNITED STATES
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- (600) --- EXISTING CONTOUR
- 600 --- PROPOSED CONTOUR
- GUARDRAIL
- DREDGE CHANNEL
- SIDEWALK, SEE LM SERIES FOR MATERIALS/FINISHES
- RIP RAP
- EMERGENT SHORELINE PLUG MIX
- DRY PRAIRIE SEED MIX
- RIPARIAN WETLAND SEED MIX
- MESIC PRAIRIE SEED MIX
- DRY SAVANNA SEED MIX
- RIPARIAN WETLAND PLUG MIX
- MOWN TURF PATH/LANDING

PARTIAL GROUNDPLANE PLANTING PLAN
SCALE = 1"=20'



| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| 1 | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

Contract 14-253-5FR
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

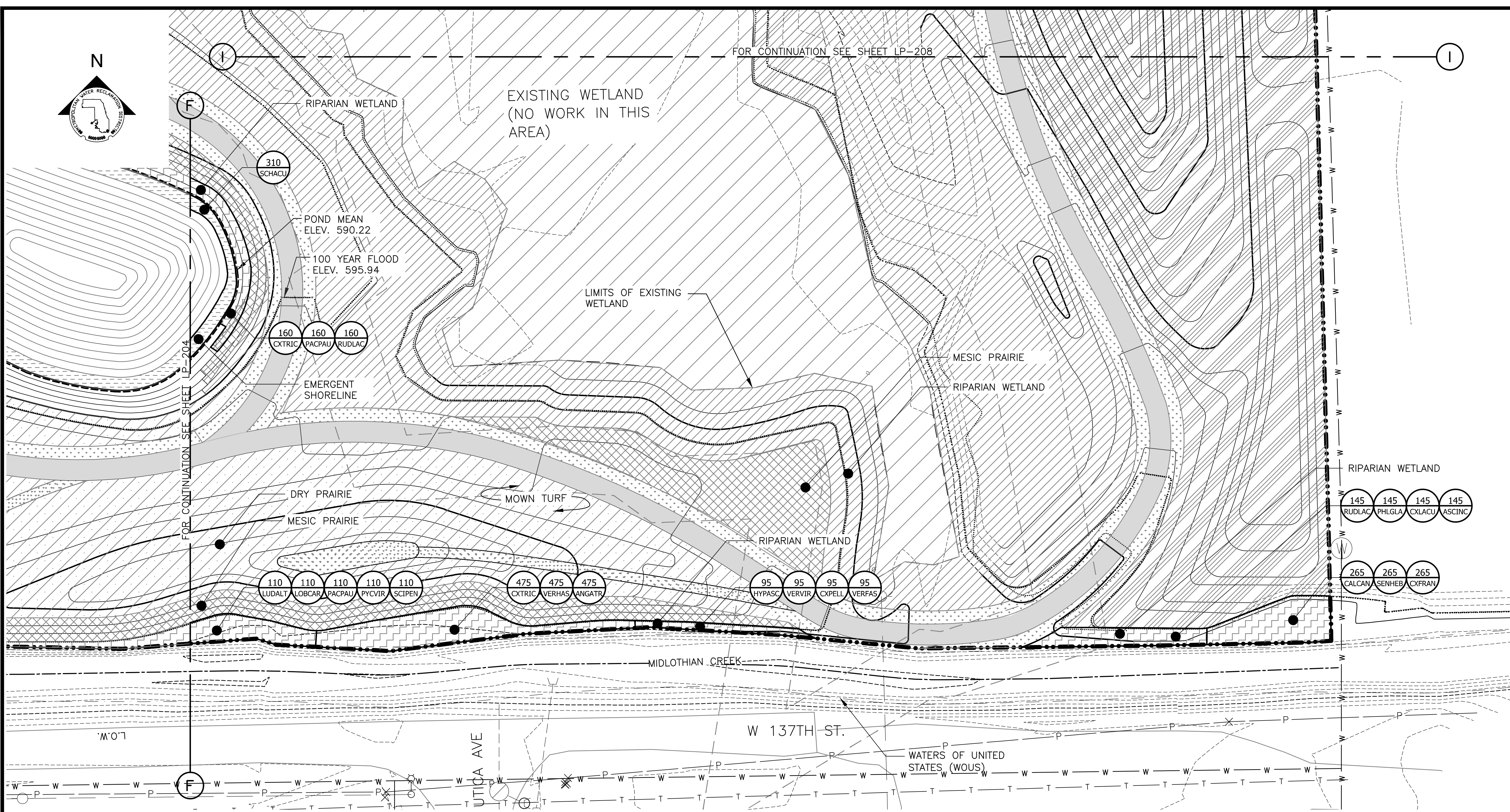
Designed by: LH
Checked by: LH
Drawn by: LH
Reviewed by: LH
Date: MAY 2024
Scale: AS SHOWN

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Sheet Number:
LP-205
Page Number: 159

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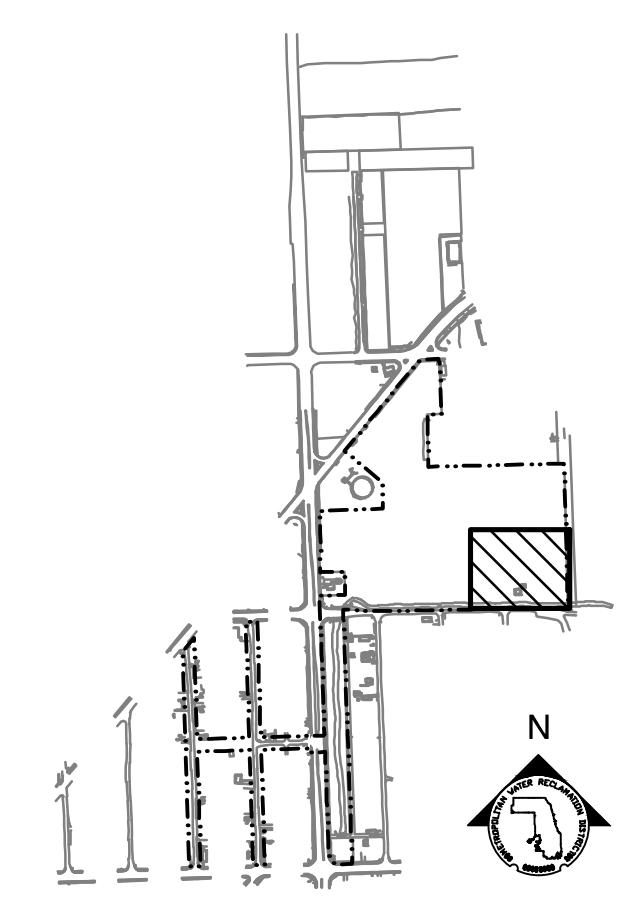
PLANTING NOTES:

1. REFERENCE NOTES ON LANDSCAPE DRAWING LP-101
2. FOR PLANTING SCHEDULES, REFERENCE DRAWINGS LP-222 & LP-223.

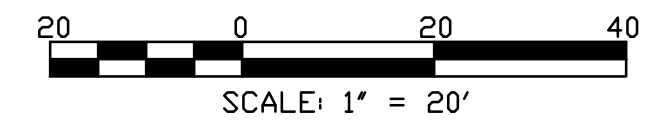
LEGEND:

- L.O.W. LIMIT OF WORK
- WOUS WATERS OF UNITED STATES
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- (600) EXISTING CONTOUR
- 600 PROPOSED CONTOUR
- GUARDRAIL
- DREDGE CHANNEL
- SIDEWALK, SEE LM SERIES FOR MATERIALS/FINISHES
- RIP RAP
- EMERGENT SHORELINE PLUG MIX
- DRY PRAIRIE SEED MIX
- RIPARIAN WETLAND SEED MIX
- MESIC PRAIRIE SEED MIX
- DRY SAVANNA SEED MIX
- MOWN TURF PATH/LANDING
- EXISTING WETLAND (NO WORK IN THIS AREA)
- RIPARIAN WETLAND PLUG MIX

PARTIAL GROUNDPLANE PLANTING PLAN
SCALE = 1"=20'



KEY MAP



| Rev. | Description | Appr. | Date |
|------|------------------------|-------|---------|
| | ISSUE FOR CONSTRUCTION | LH | 08/2024 |

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5FR
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)
LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

Designed by: LH
Checked by: LH
Drawn by: LH
Reviewed by: LH
Date: MAY 2024
Scale: AS SHOWN

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Sheet Number:
LP-206
Page Number: 160