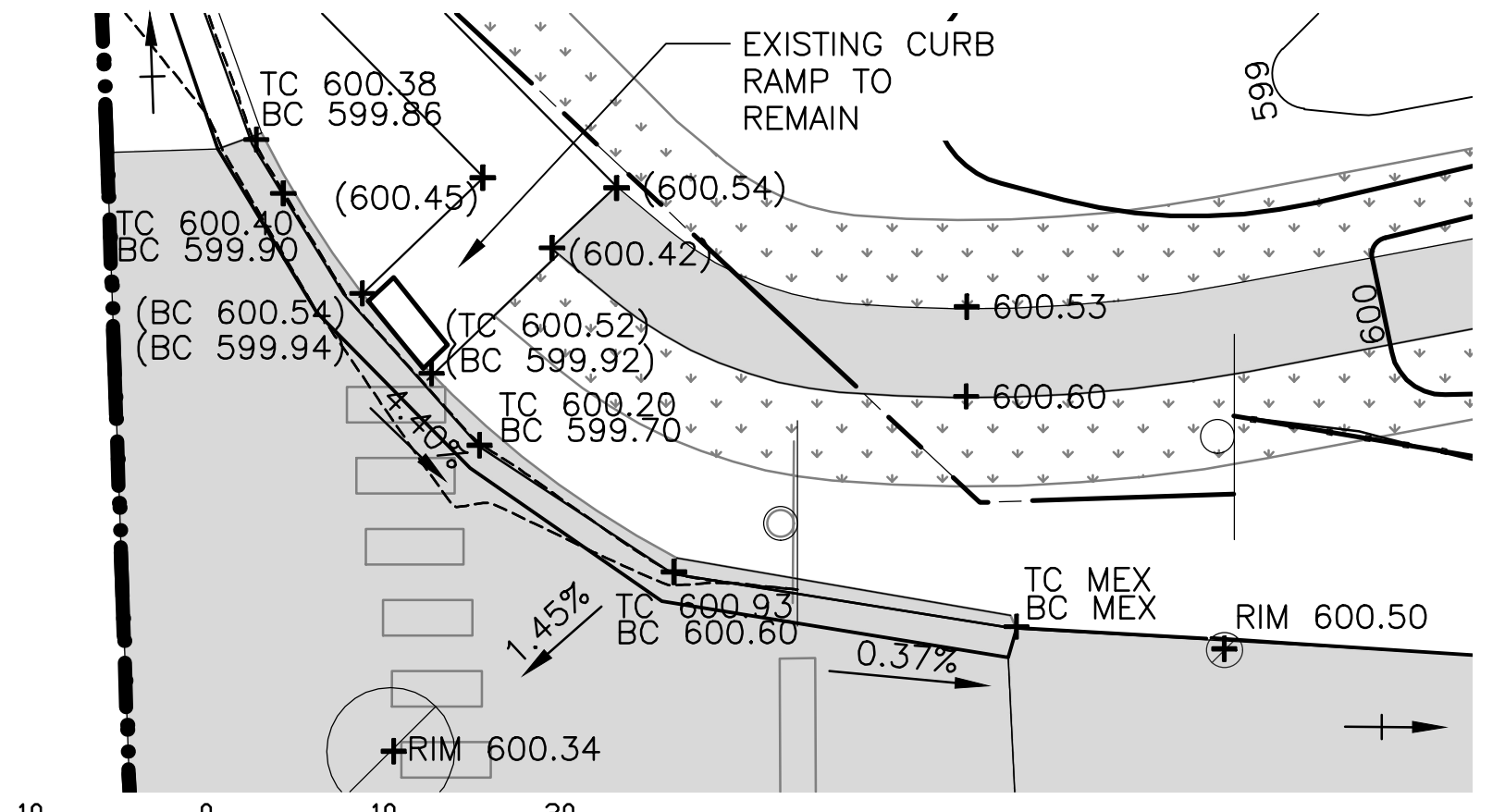


GRADING NOTES:

1. REFERENCE NOTES ON GRADING DRAWING LG-101.

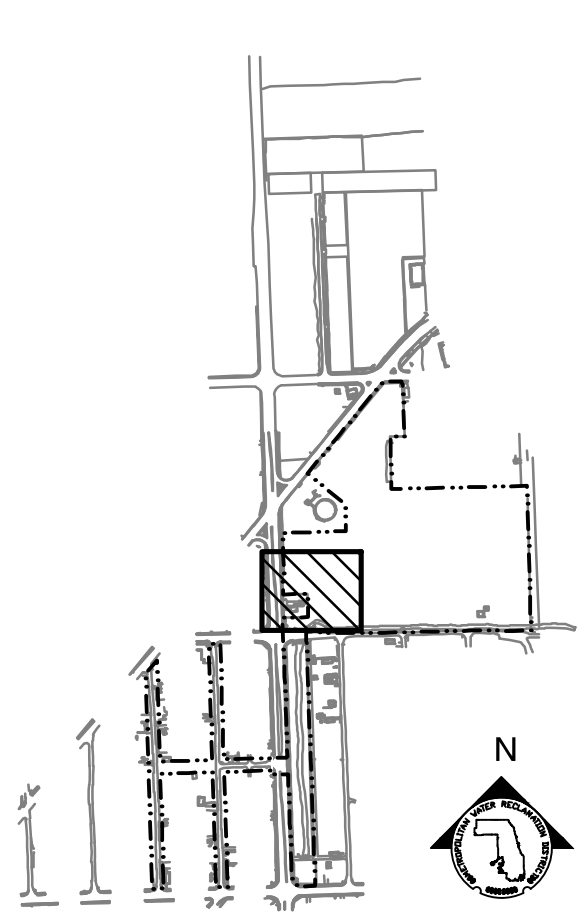


1 CURB RAMP ENLARGEMENT
SCALE: 1"=10'

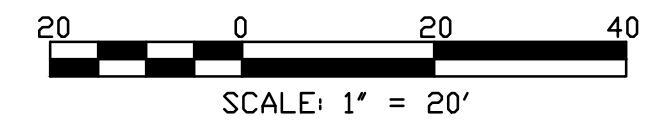
LEGEND:

- L.O.W. LIMIT OF WORK
- W.O.U.S. WATERS OF UNITED STATES (W.O.U.S.)
- 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



Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

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

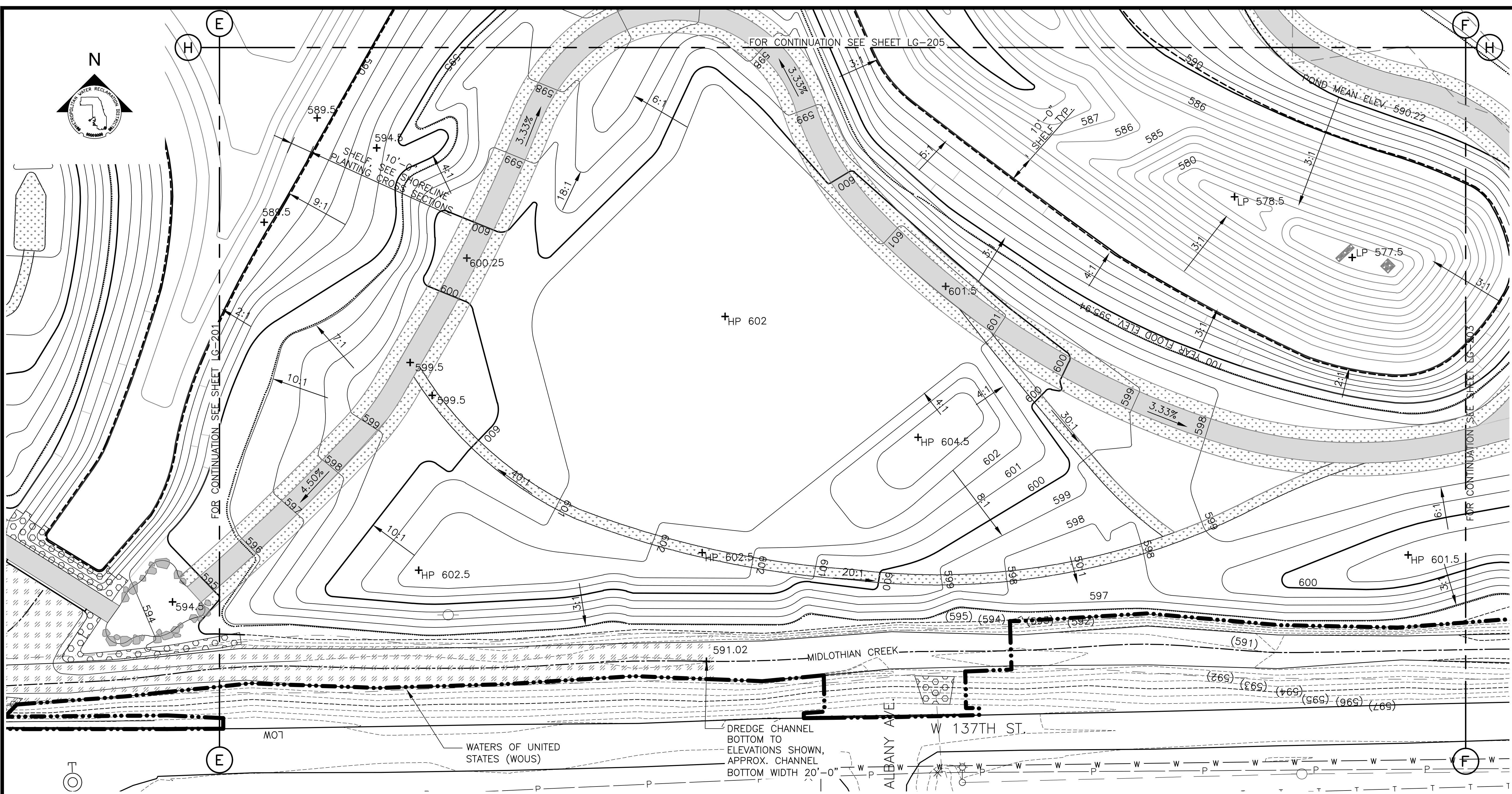
Reviewed by: LH
Scale: AS SHOWN

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

LIVING HABITATS

CONTRACT 14-253-5F
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, CSA
LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

P:\16-105_Robbins Park - MWRD\04_CAD\14-253-5F\Landscape\Sheets\14-253-BF-LG-202.dwg 1/26/2024 6:02 PM
 PLOT DATE: 2/7/2024 2:41 PM PLOTTED BY: HANNAH CUSICK

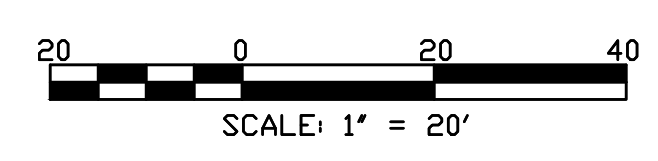
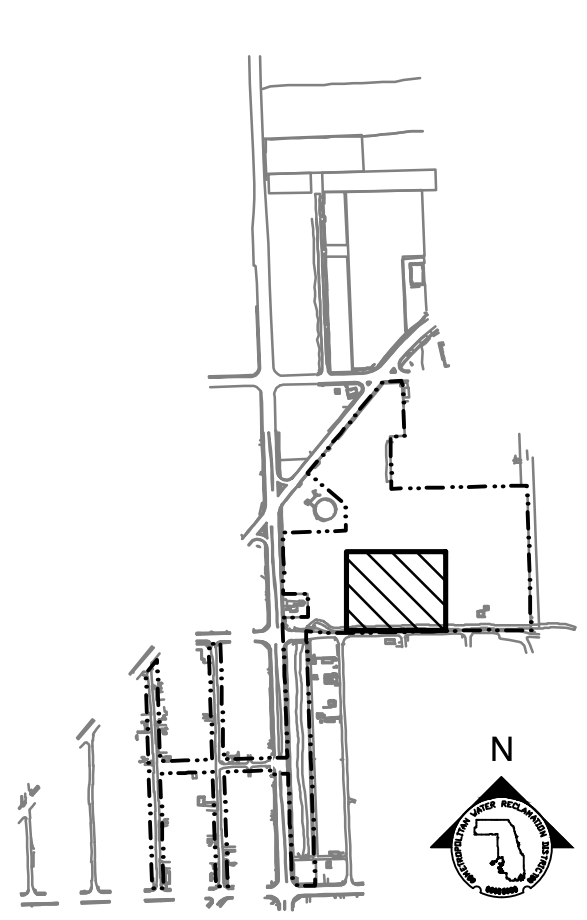


GRADING NOTES:

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

LEGEND:

--- L.O.W. ---	LIMIT OF WORK	PARTIAL GRADING PLAN	
- WOUS -	WATERS OF UNITED STATES (WOUS)	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
[Symbol]	ENLARGEMENT BOX	5:1	H:V SLOPE DESIGNATION



Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

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

LIVING HABITATS

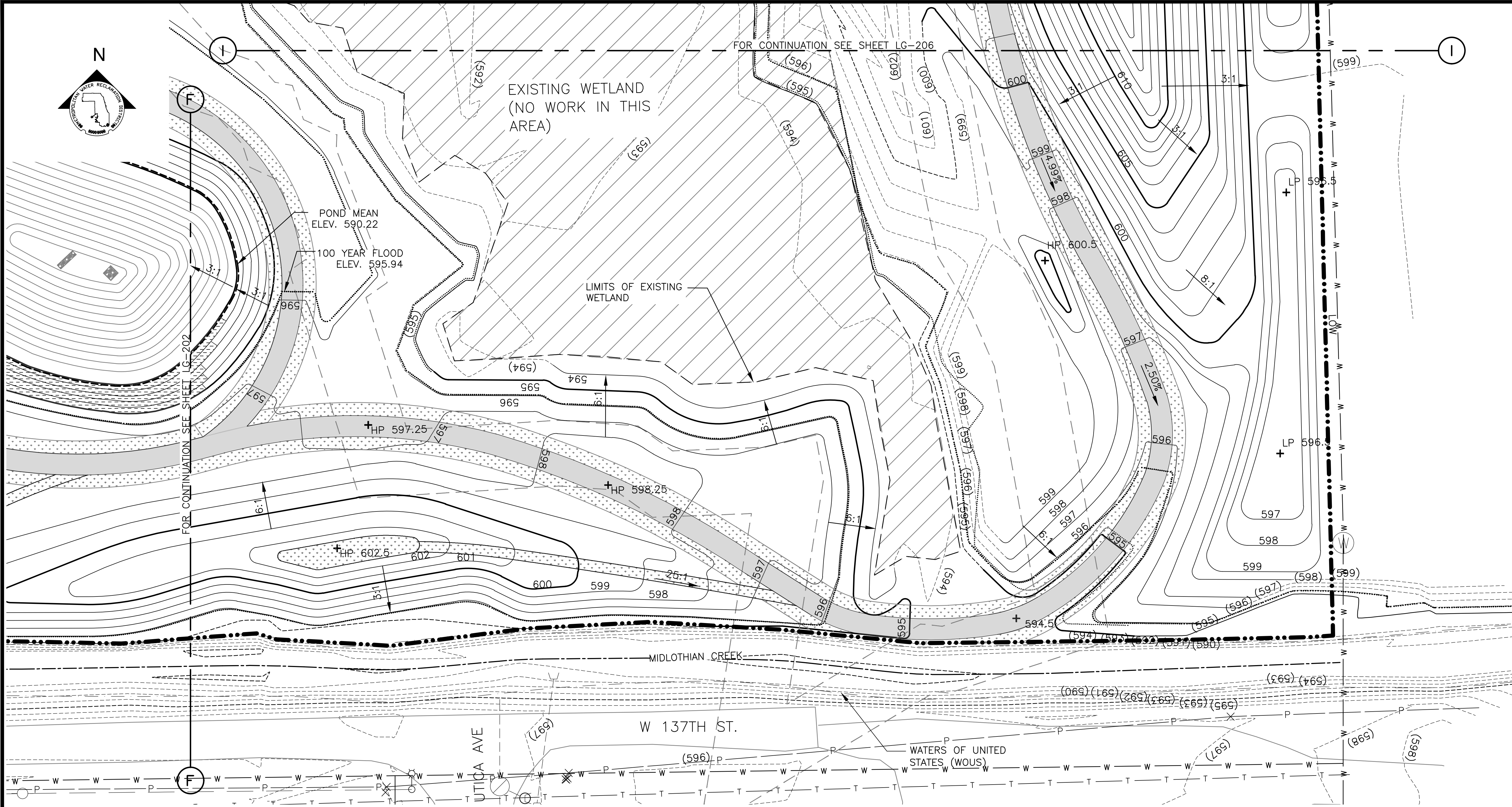
DONOHUE
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 GREEN & ASSOCIATES, INC.

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

Sheet Number:
LG-202
 Page Number: 109

P:\16-105_Robbins Park - MWRD\04_CAD\14-253-3F\Landscape\Sheets\14-253-BF\LG-203.dwg 1/17/2024 12:44 PM
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GRADING NOTES:

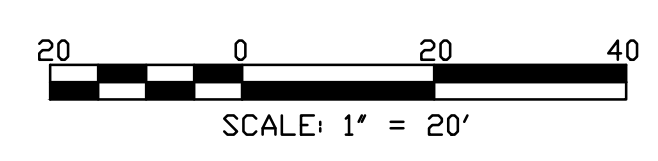
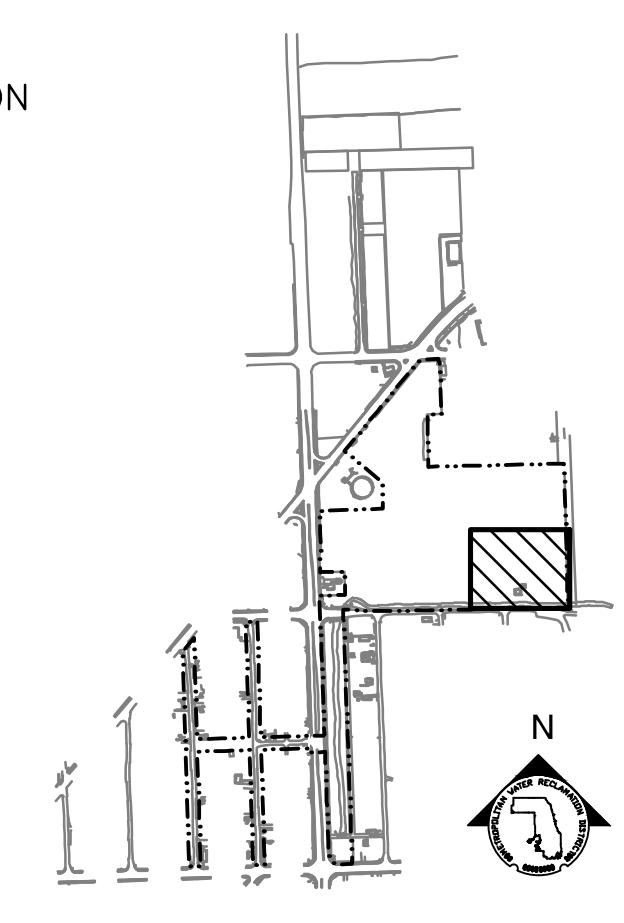
- REFERENCE NOTES ON GRADING DRAWING LG-101.

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] 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
- [Symbol] 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

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

Contract 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

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

Reviewed by: LH
 Scale: AS SHOWN

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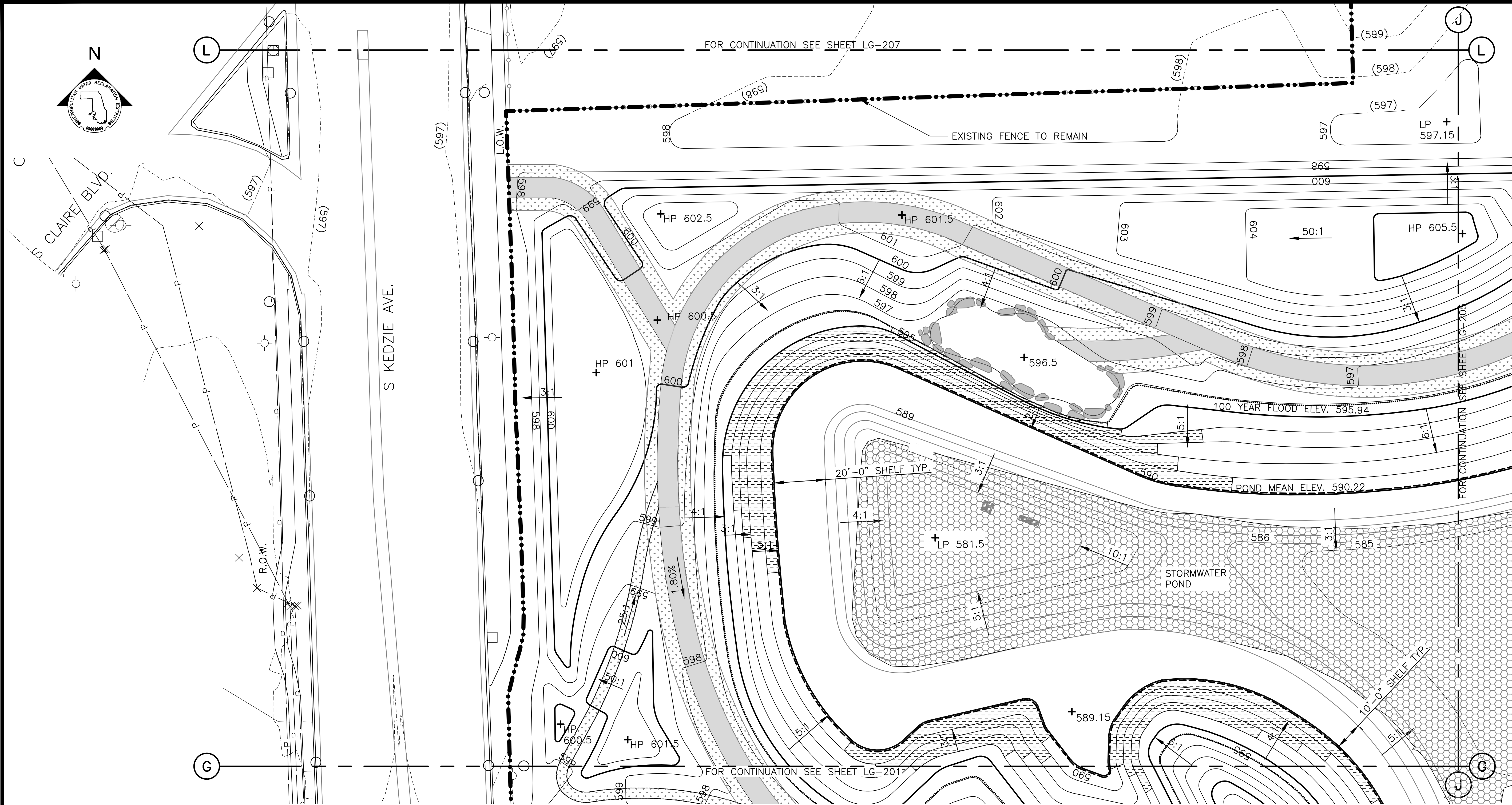
LIVING HABITATS

ZIM
 GREEN & ASSOCIATES, INC.
 CONSULTING ENGINEERS

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

Sheet Number:
LG-203
 Page Number: 110

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GRADING NOTES:

1. REFERENCE NOTES ON GRADING DRAWING LG-101.

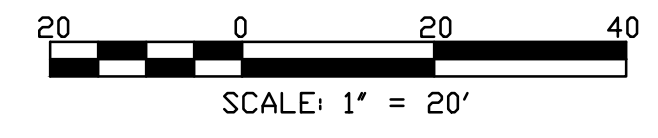
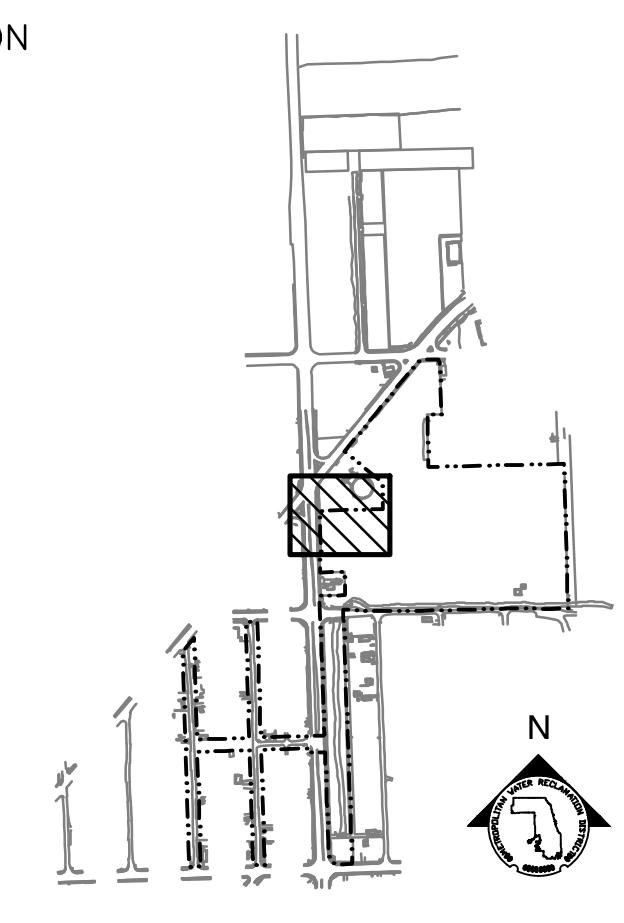
LEGEND:

- 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



Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

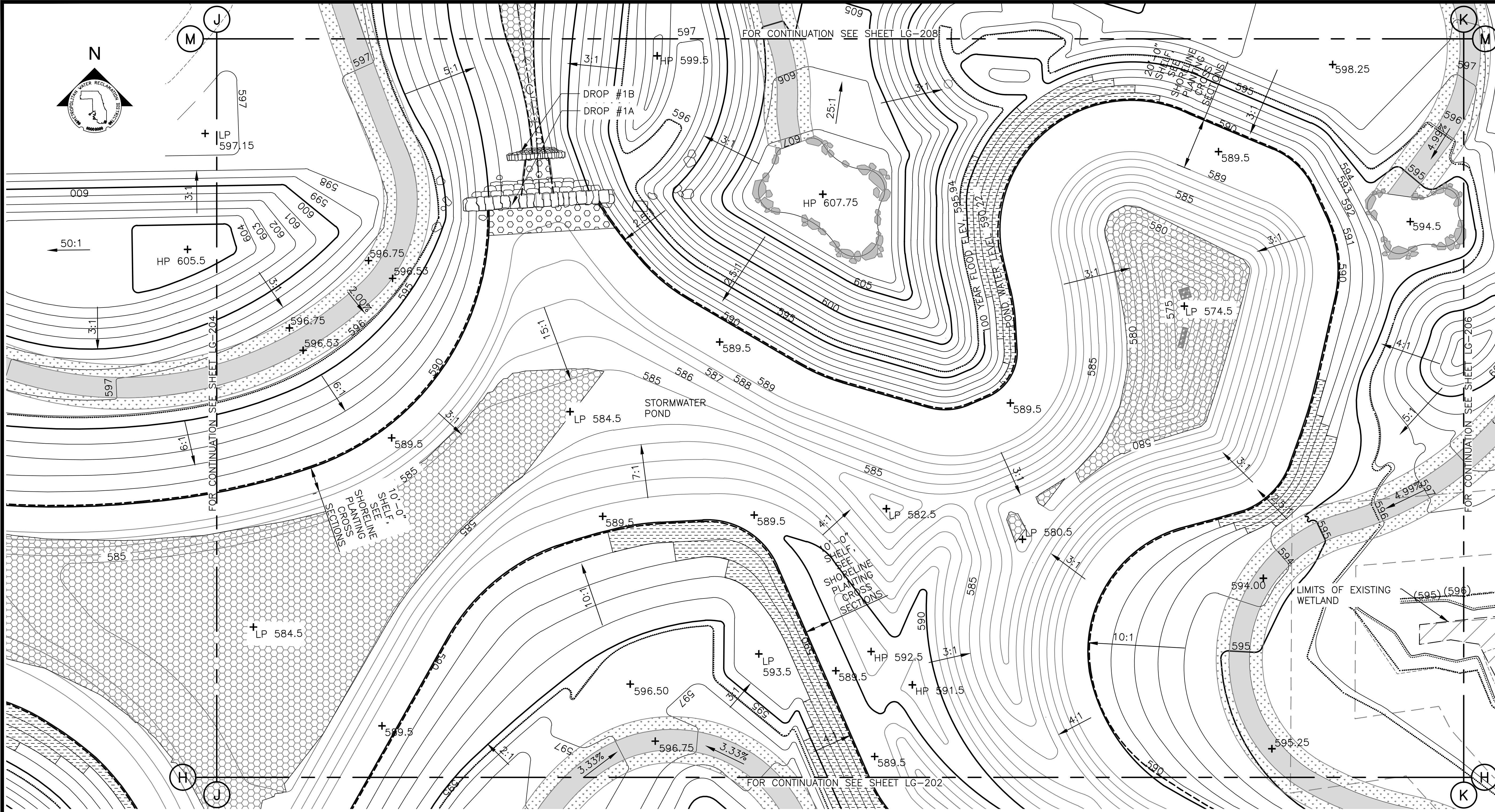
Designed by: LH
 Checked by: LH
 Drawn by: LH
 Reviewed by: LH
 Date: FEB 2024
 Scale: AS SHOWN

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 O'Brien & Associates, Inc.

Sheet Number:
LG-204
 Page Number: 111

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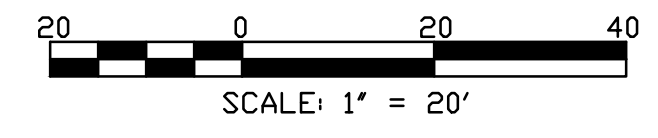
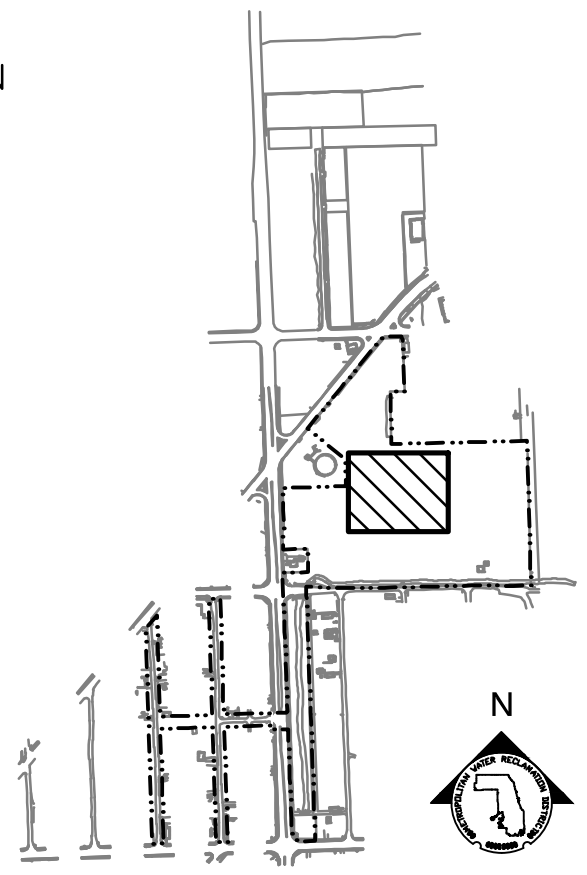


GRADING NOTES:

1. REFERENCE NOTES ON GRADING DRAWING LG-101.

LEGEND:

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



Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

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

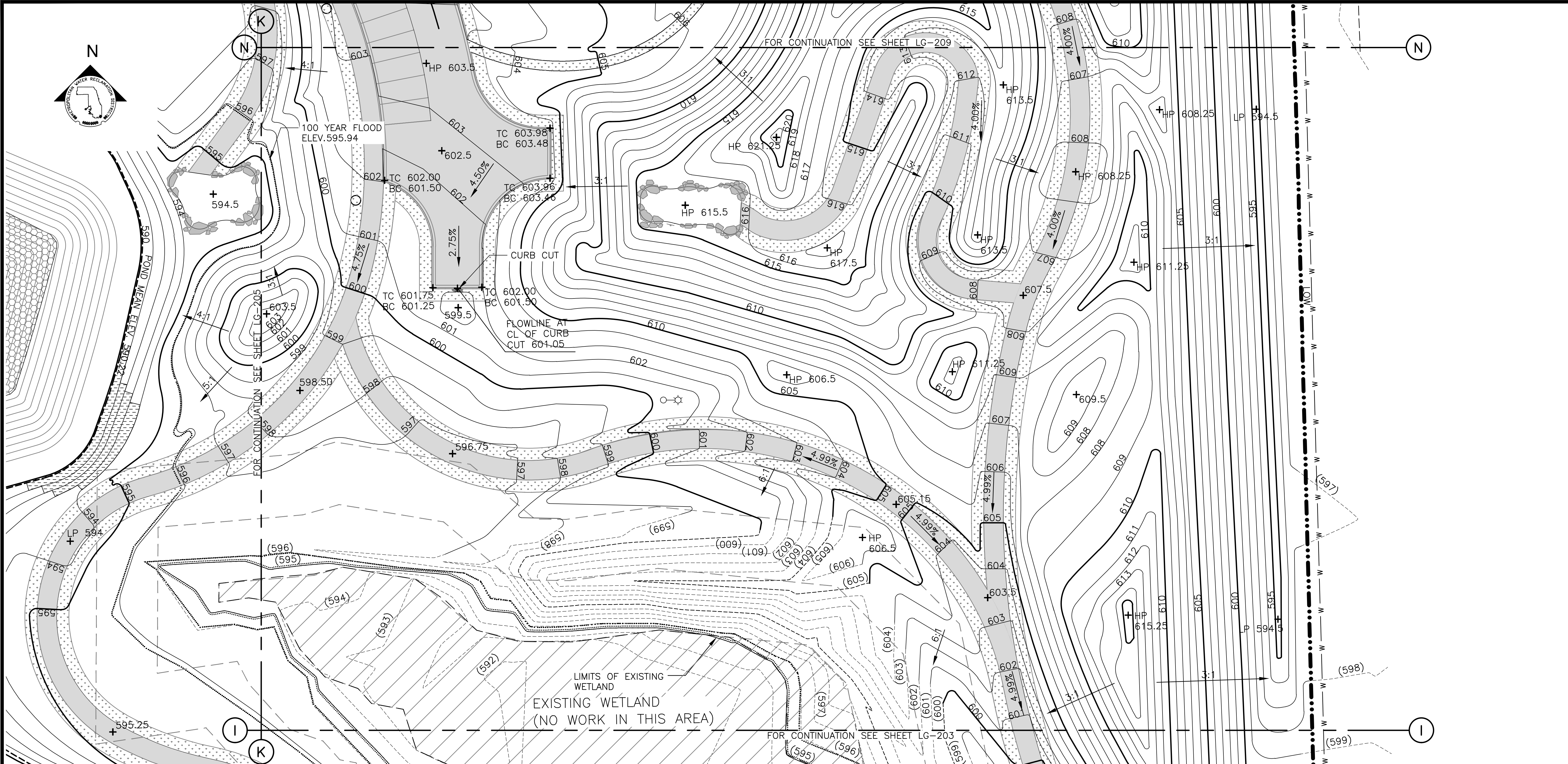
DONOHUE
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LIVING HABITATS
 O'Brien & Associates, Inc.

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

Sheet Number:
LG-205
 Page Number: 112

P:\16-105_Robbins Park - MWRD\04_CAD\14-253-5F Landscape\Sheets\14-253-BF\LG-206.dwg 1/29/2024 9:49 PM
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GRADING NOTES:

1. REFERENCE NOTES ON GRADING DRAWING LG-101.

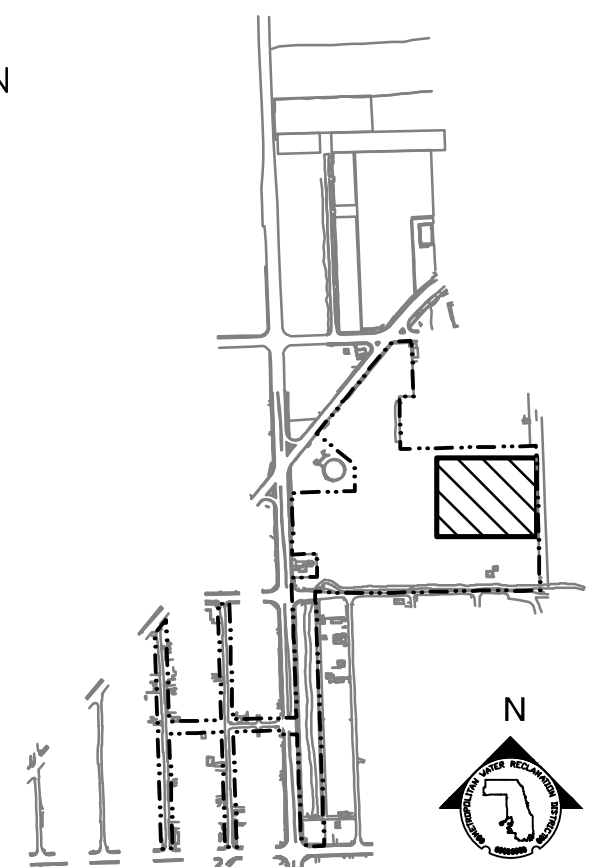
LEGEND:

- 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
- ENLARGEMENT BOX

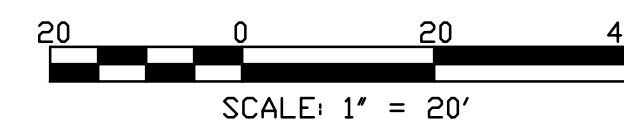
PARTIAL GRADING PLAN

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

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

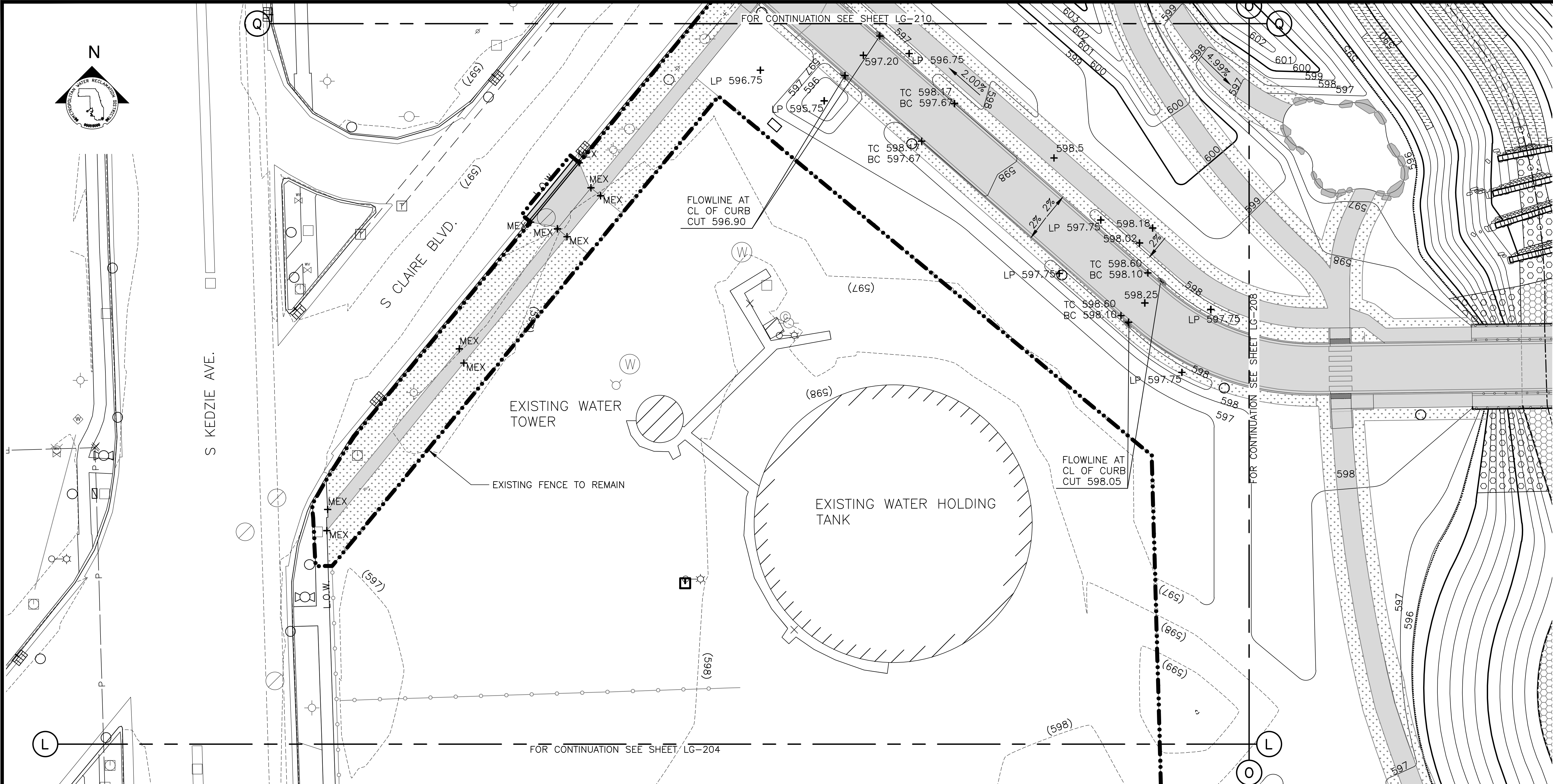
Designed by: LH
 Checked by: LH
 Drawn by: LH
 Reviewed by: LH
 Date: FEB 2024
 Scale: AS SHOWN

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LIVING HABITATS

Sheet Number:
LG-206
 Page Number: 113

PLOT DATE: 2/7/2024 2:42 PM PLOTTED BY: HANNAH CUSICK
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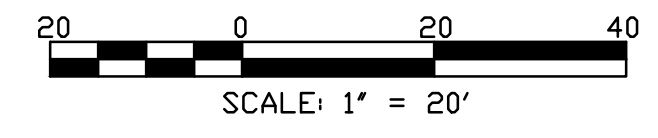
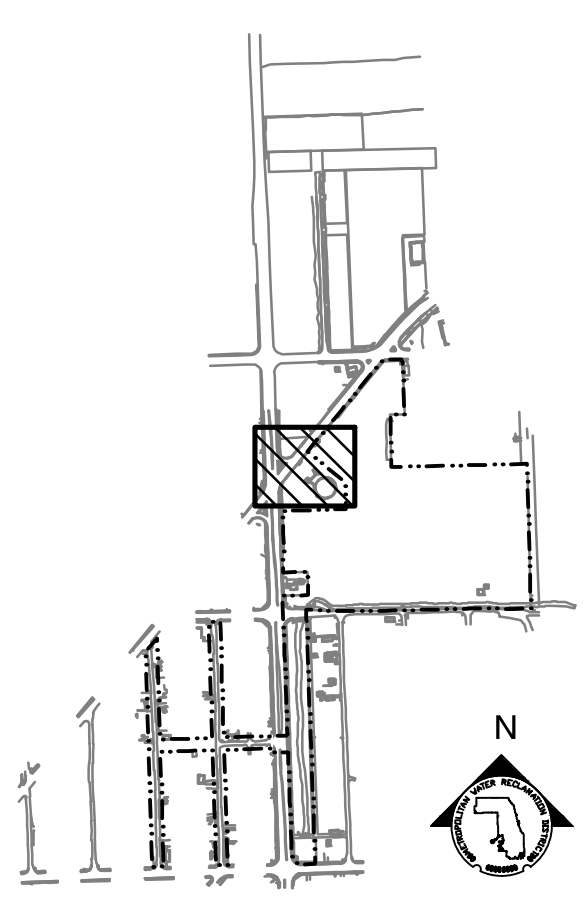
1. REFERENCE NOTES ON GRADING DRAWING LG-101.

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

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

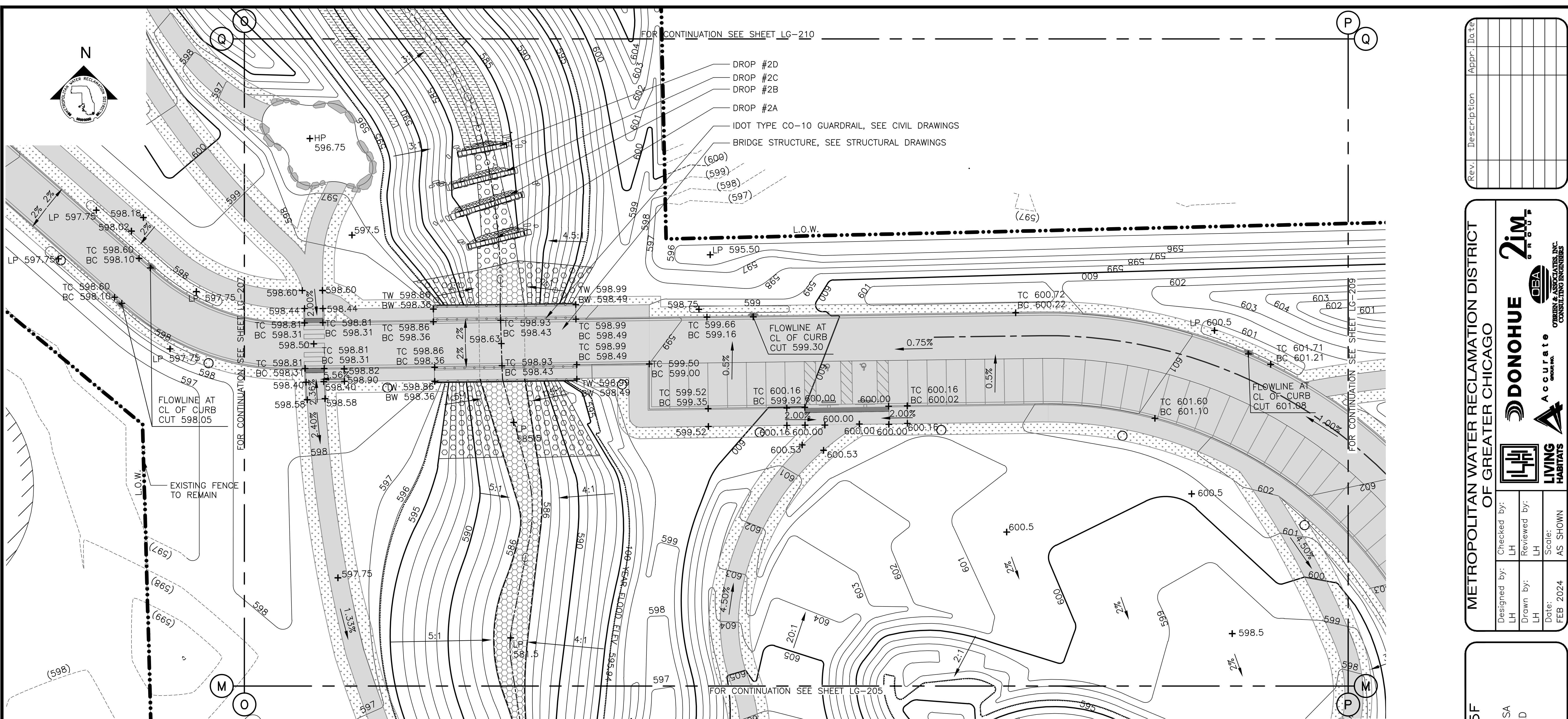
Designed by: LH
 Checked by: LH
 Drawn by: LH
 Reviewed by: LH
 Date: FEB 2024
 Scale: AS SHOWN

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LIVING HABITATS
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Sheet Number:
LG-207
 Page Number: 114

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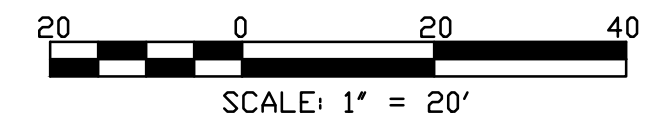
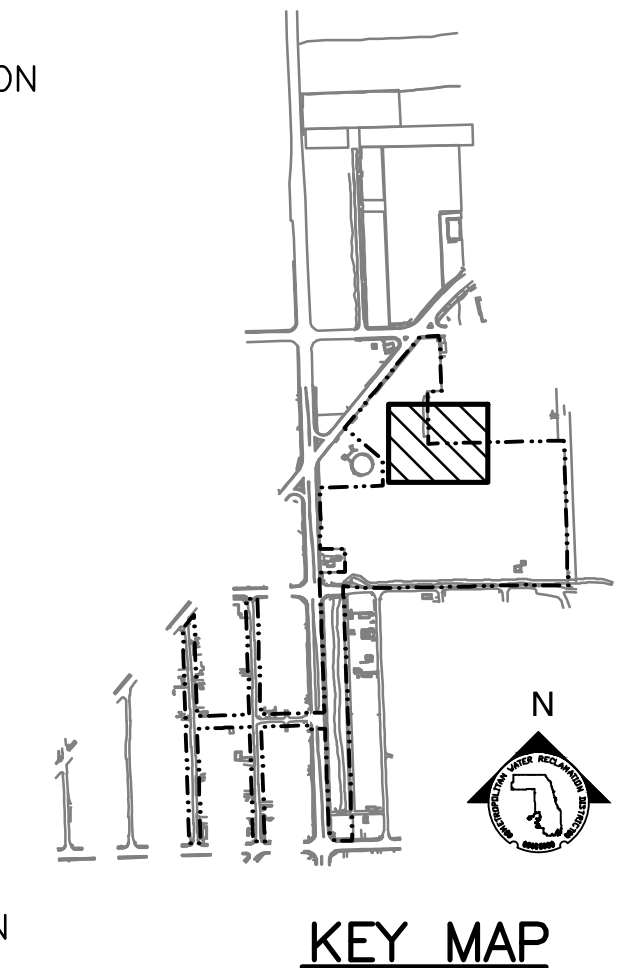
1. REFERENCE NOTES ON GRADING DRAWING LG-101.

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] 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



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5F
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, CSA
LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

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

DONOHUE
Accurate
ENGINEERS & ASSOCIATES, INC.
CONSULTING ENGINEERS

LIVING HABITATS

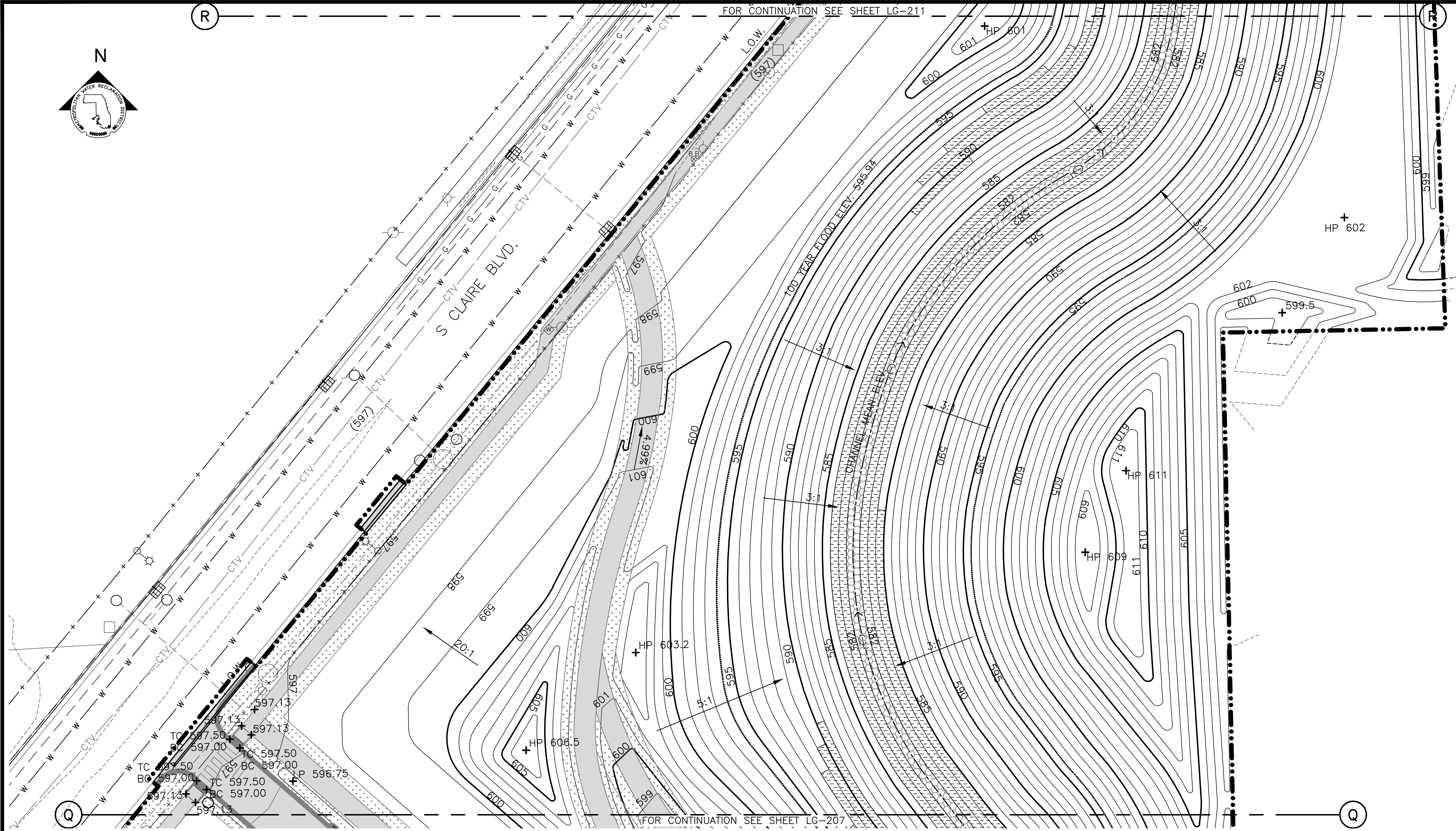
ZIM
GREEN & ASSOCIATES, INC.
CONSULTING ENGINEERS

Rev.	Description	Appr.	Date

Sheet Number:
LG-208

Page Number: 115

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FOR CONTINUATION SEE SHEET LG-211

FOR CONTINUATION SEE SHEET LG-207

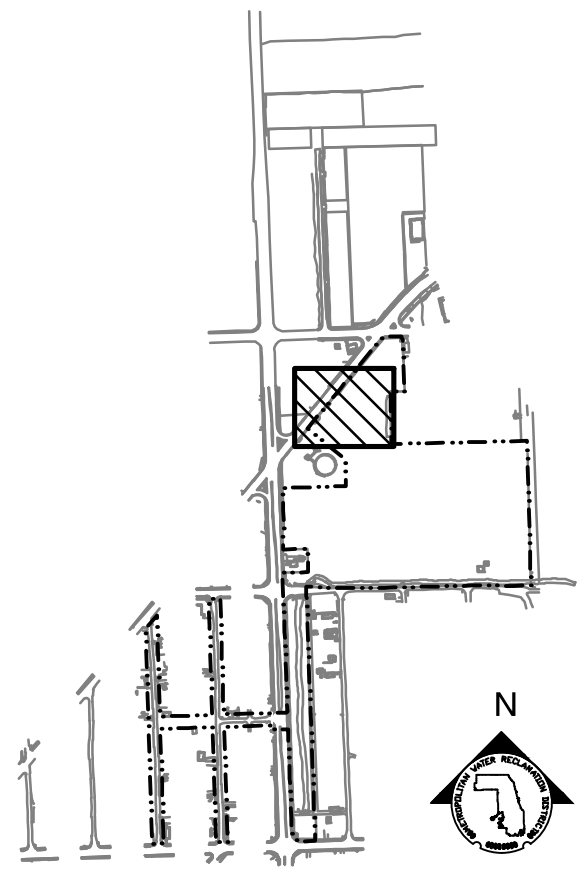
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1. REFERENCE NOTES ON GRADING DRAWING LG-101.

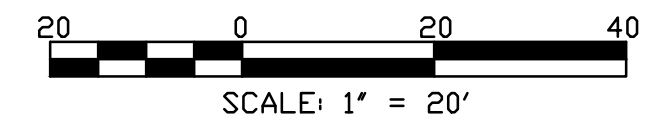
PARTIAL GRADING PLAN
 SCALE = 1"=20'

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



Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL GRADING PLAN

Designed by: LH
 Drawn by: LH
 Date: FEB 2024

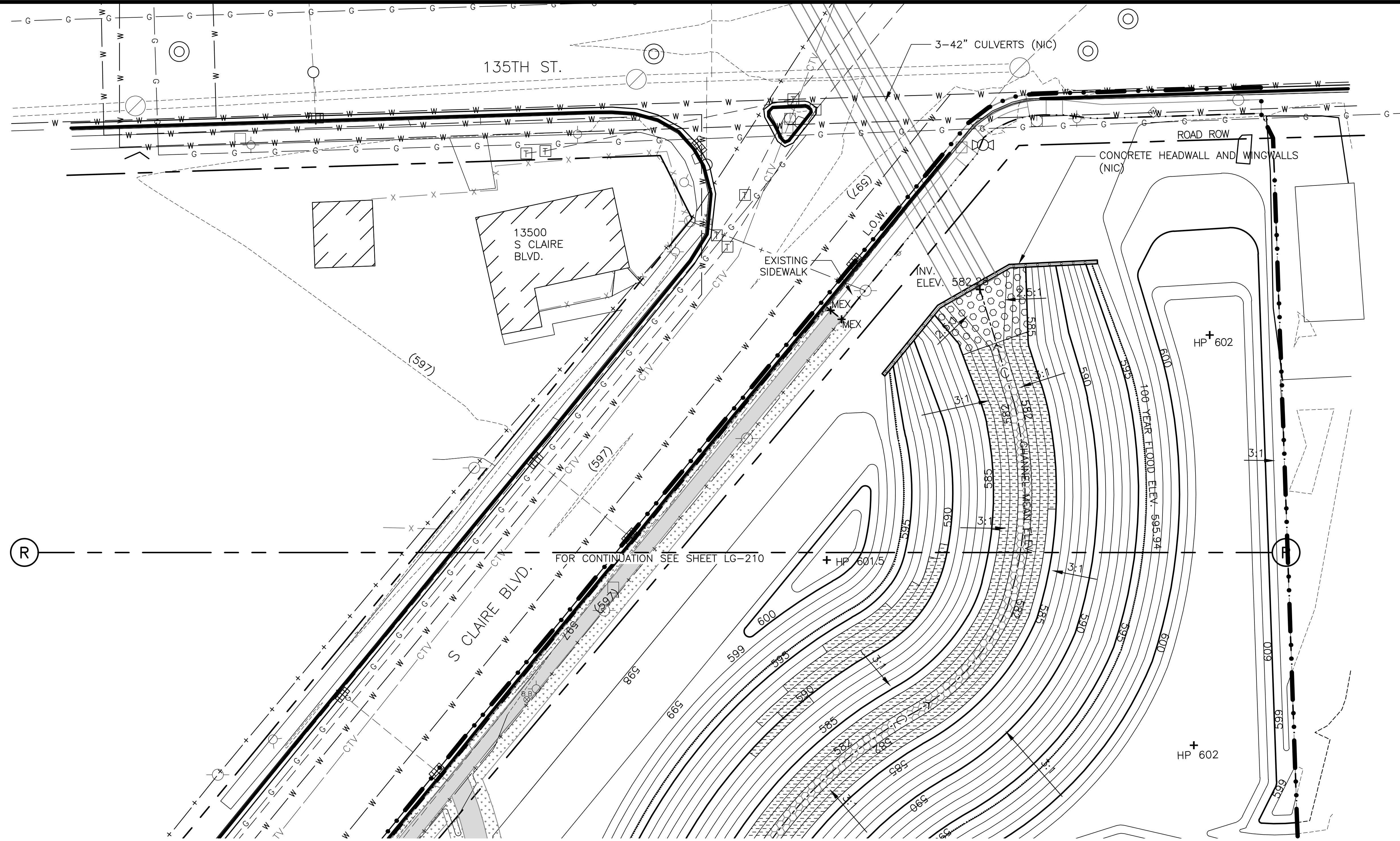
Checked by: LH
 Reviewed by: LH
 Scale: AS SHOWN

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 CONSULTING ENGINEERS

LIVING HABITATS

Sheet Number:
LG-210
 Page Number: 117

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 PLOT DATE: 2/7/2024 2:43 PM PLOTTED BY: HANNAH CUSICK



GRADING NOTES:

1. REFERENCE NOTES ON GRADING DRAWING LG-101.

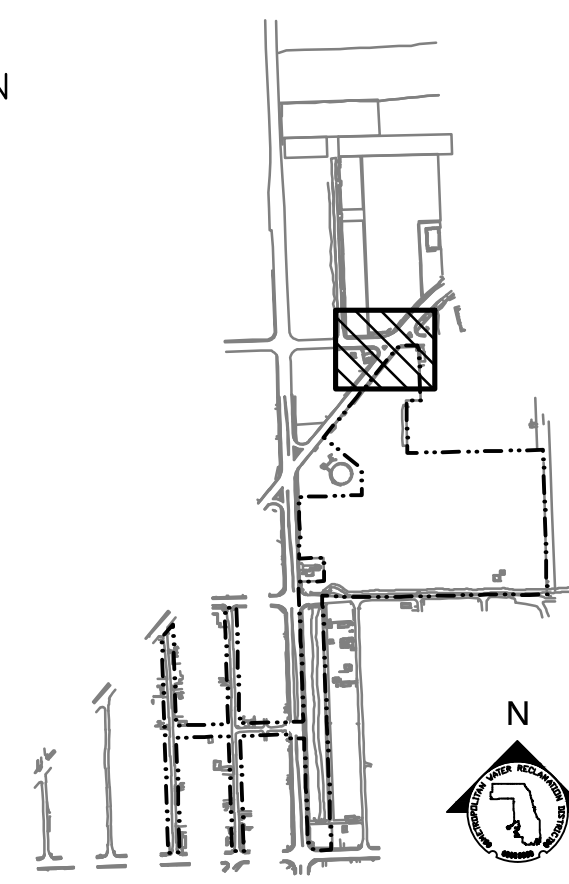
LEGEND:

- 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
- [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

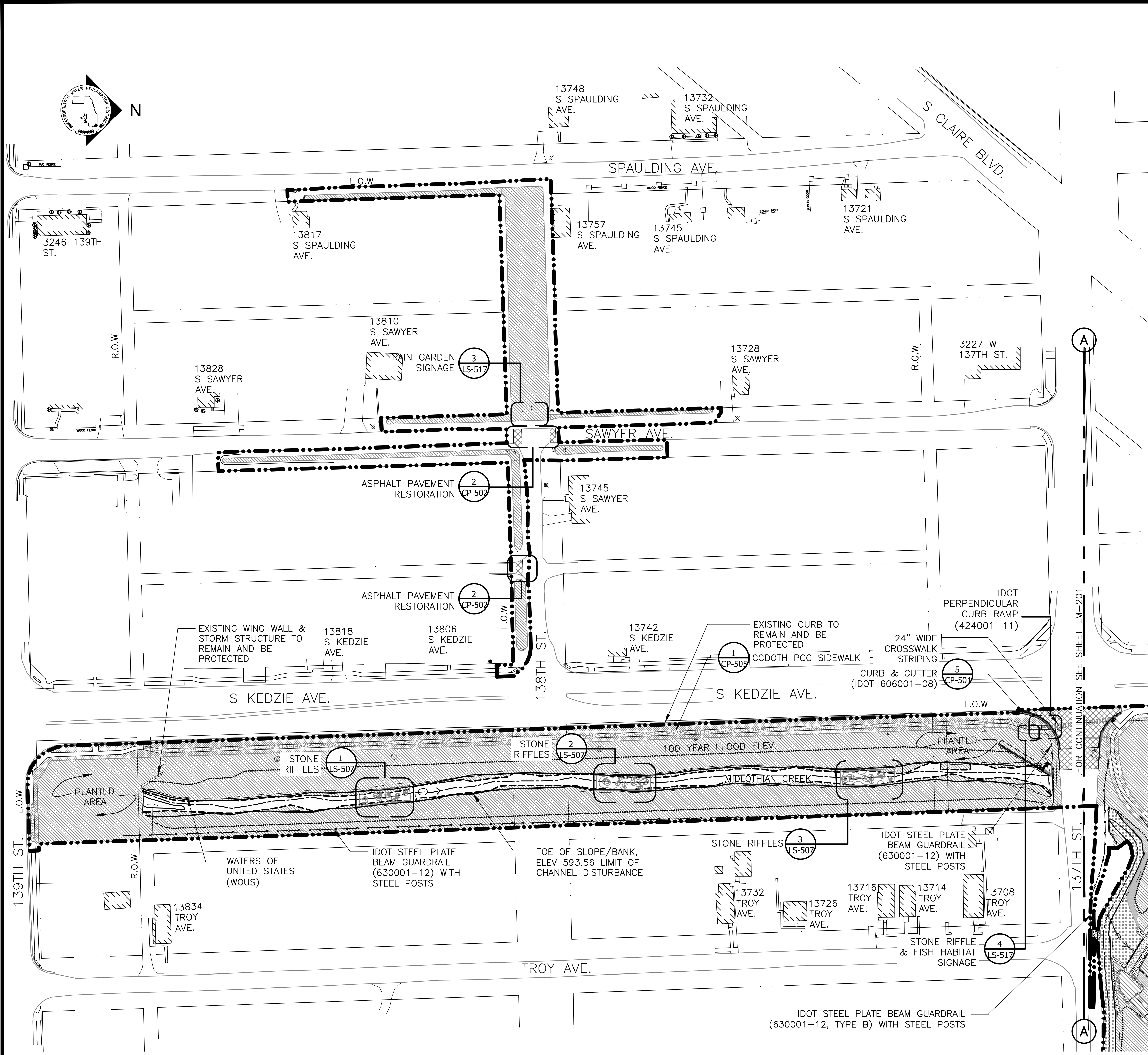
CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
 PARTIAL GRADING PLAN

Sheet Number:
LG-211
 Page Number: 118

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

Rev.	Description	Appr.	Date

PLOT DATE: 2/7/2024 2:43 PM PLOTTED BY: HANNAH CUSICK
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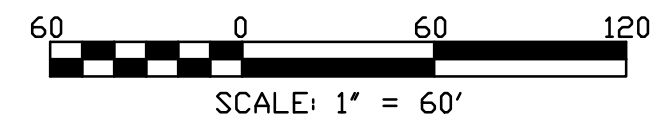
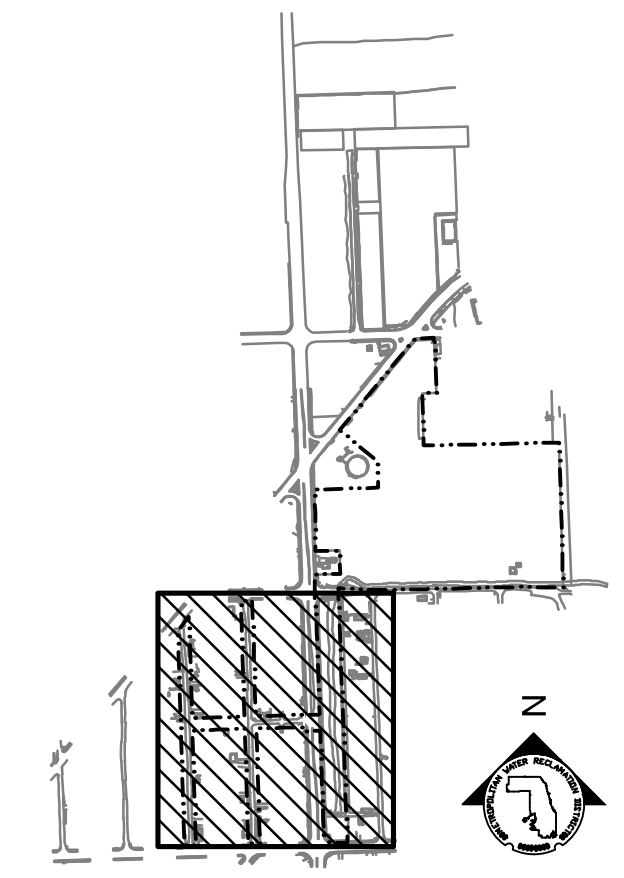


MATERIAL NOTES:

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.
- CIP CONCRETE PAVEMENT- PEDESTRIAN
- MOWN TURF
- PLANTED AREA, REFERENCE LP-SERIES
- ASPHALT PAVEMENT - PEDESTRIAN
- ASPHALT PAVEMENT - VEHICULAR
- CURB AND GUTTER
- STONE RIFFLES
- ENLARGEMENT BOX
- CHANNEL CENTER LINE & DIRECTION OF FLOW



Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL MATERIALS AND FINISHES PLAN

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

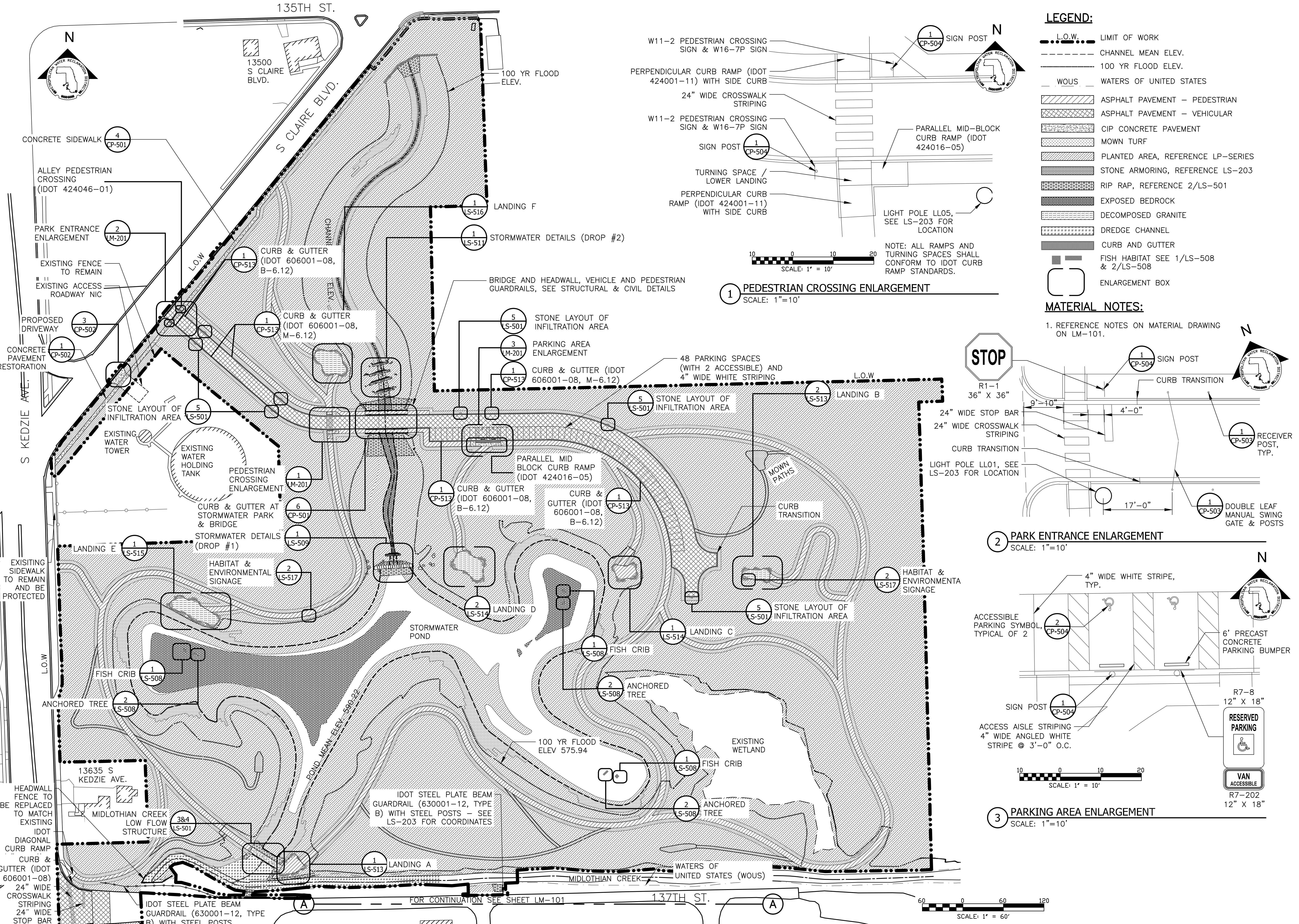
DONOHUE
 CONSULTING ENGINEERS

Accurate
 CONSULTING ENGINEERS

LIVING HABITATS

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL MATERIALS AND FINISHES PLAN

P:\16-105_Robbins Park - MWRD\04_CAD\14-253-BF\LM-201.dwg 1/30/2024 4:04 PM
 PLOT DATE: 2/7/2024 2:44 PM PLOTTED BY: HANNAH CUSICK



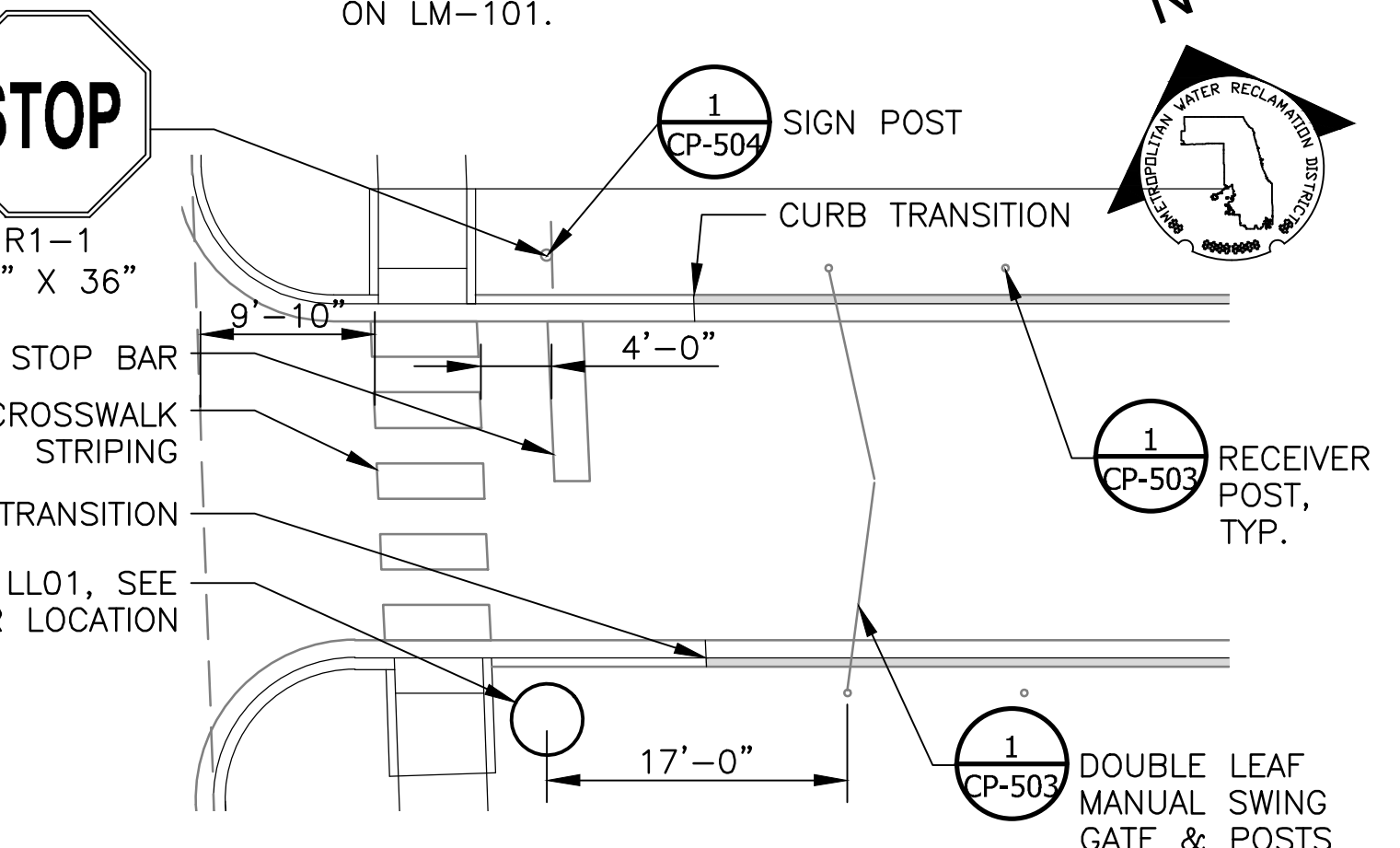
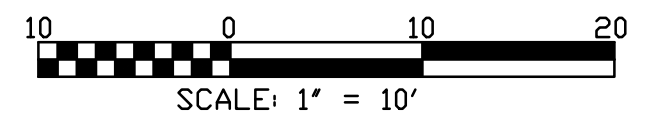
LEGEND:

- L.O.W. LIMIT OF WORK
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- WOUS 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

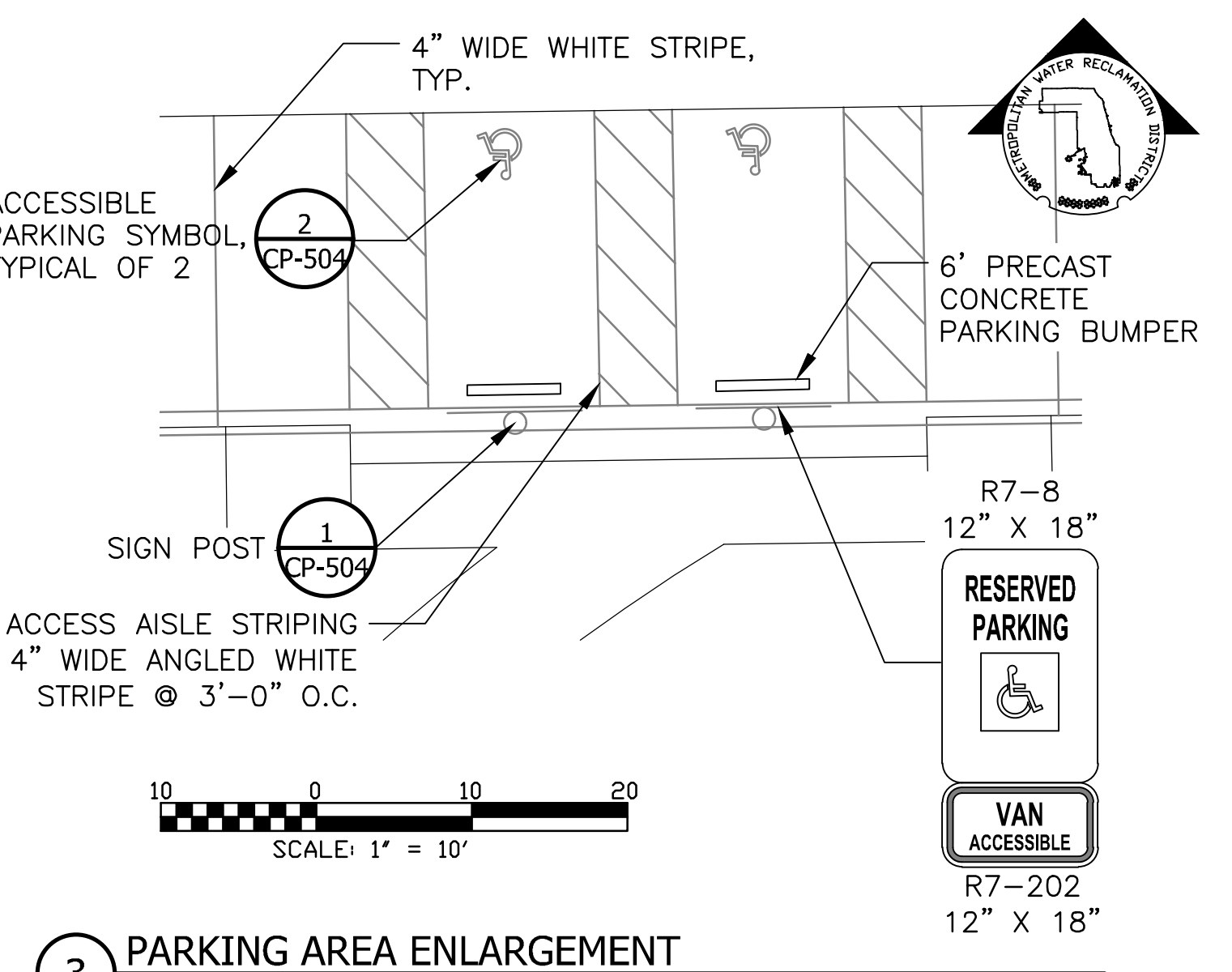
MATERIAL NOTES:

1. REFERENCE NOTES ON MATERIAL DRAWING ON LM-101.

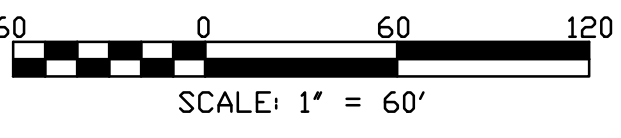
1 PEDESTRIAN CROSSING ENLARGEMENT
 SCALE: 1"=10'



2 PARK ENTRANCE ENLARGEMENT
 SCALE: 1"=10'



3 PARKING AREA ENLARGEMENT
 SCALE: 1"=10'



Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

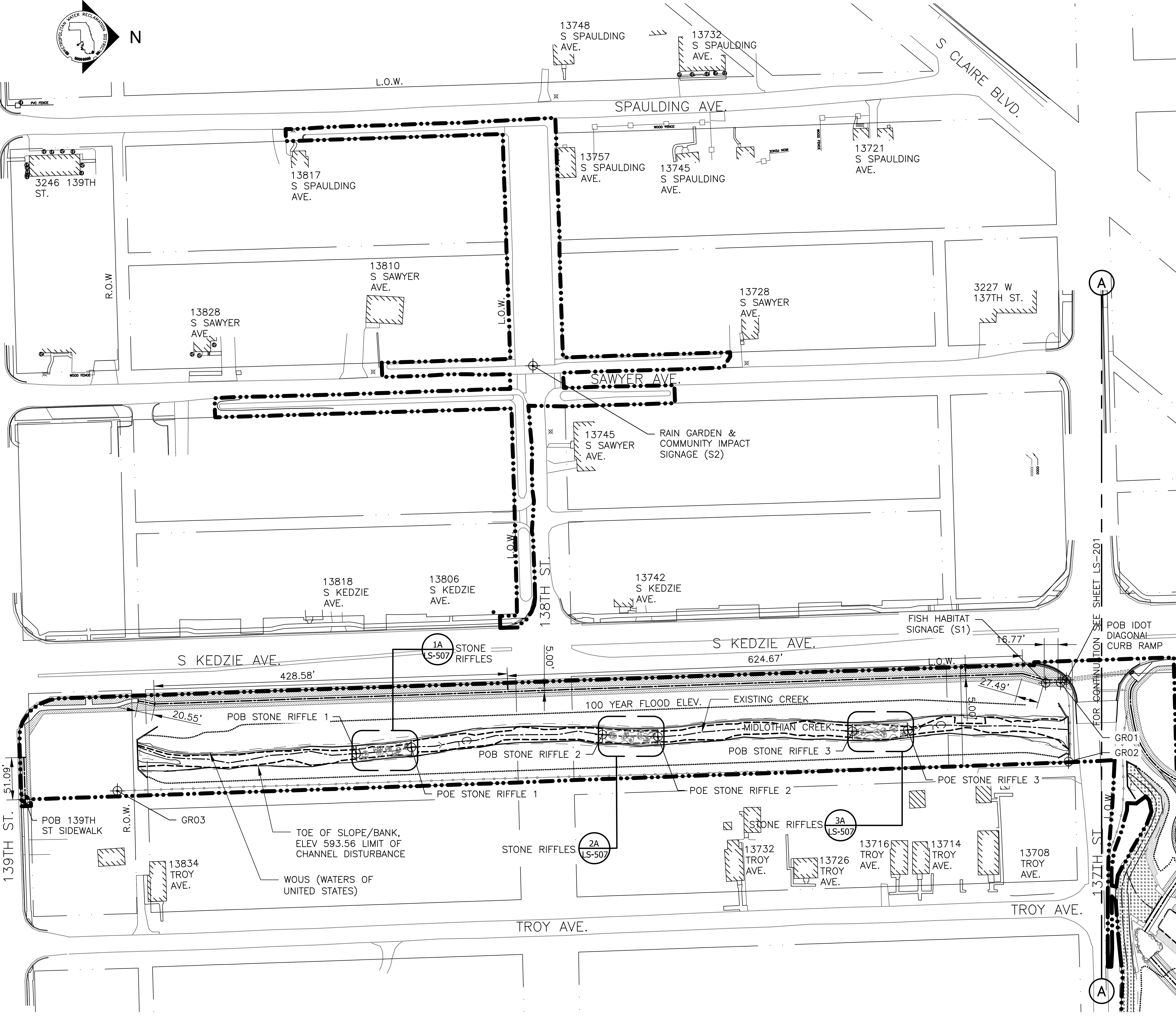
CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL MATERIALS AND FINISHES PLAN

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

DONOHUE
 CONSULTING ENGINEERS

LIVING HABITATS

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

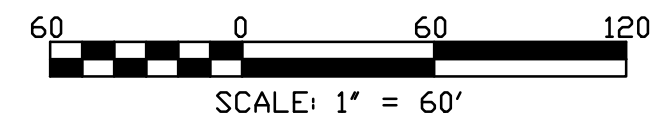
SIGNAGE

	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

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

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

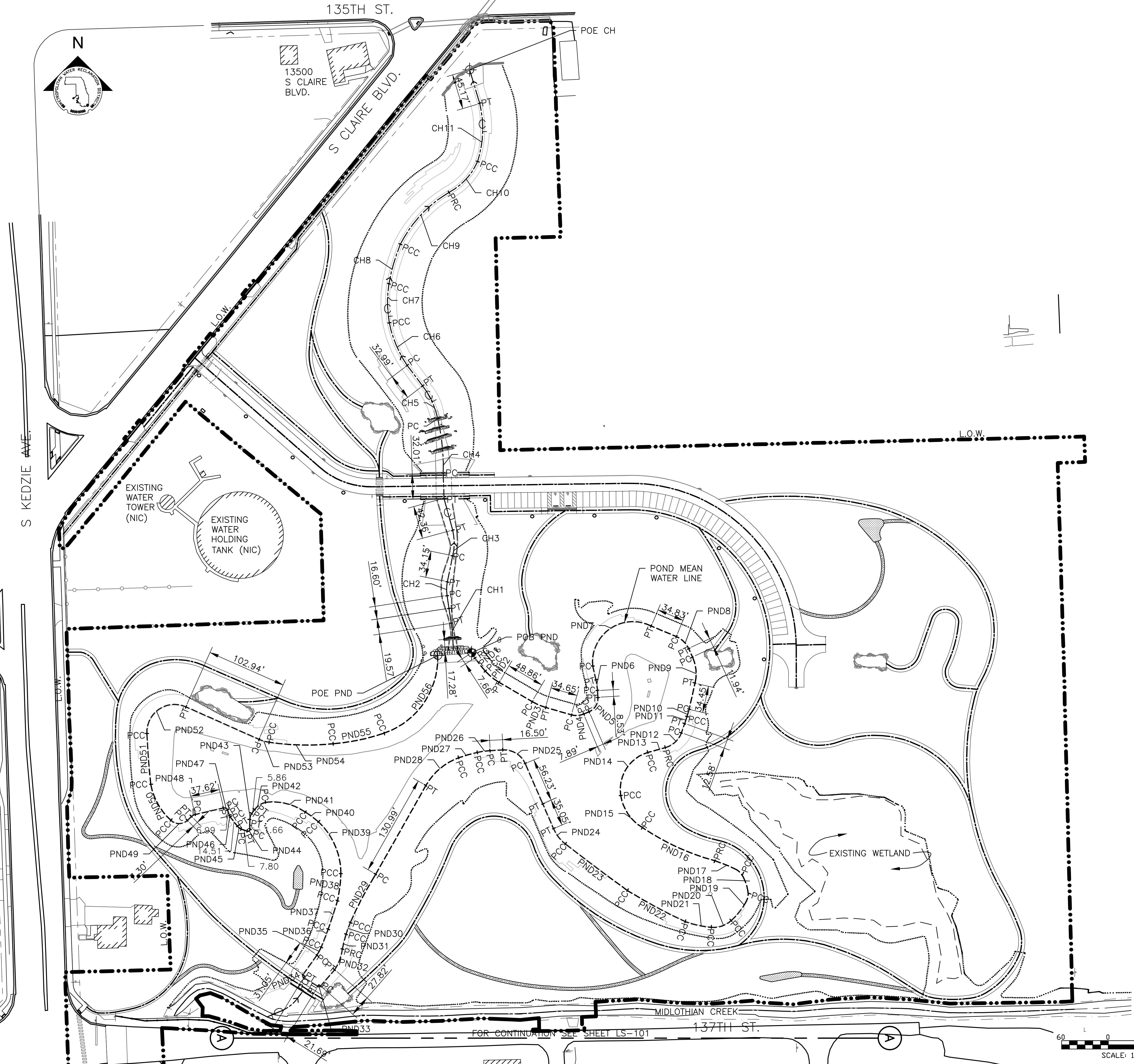
REVIEWED BY: LH
 SCALES: AS SHOWN

LIVING HABITATS

DONOHUE ACCURATE ENGINEERS & ASSOCIATES, INC. CONSULTING ENGINEERS

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
 LAYOUT PLAN

PLOT DATE: 2/7/2024 2:44 PM 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

**METROPOLITAN WATER RECLAMATION DISTRICT
OF GREATER CHICAGO**

Designed by:
LH

Checked by:
LH

Drawn by:
LH

Reviewed by:
LH

Date:
FEB 2024

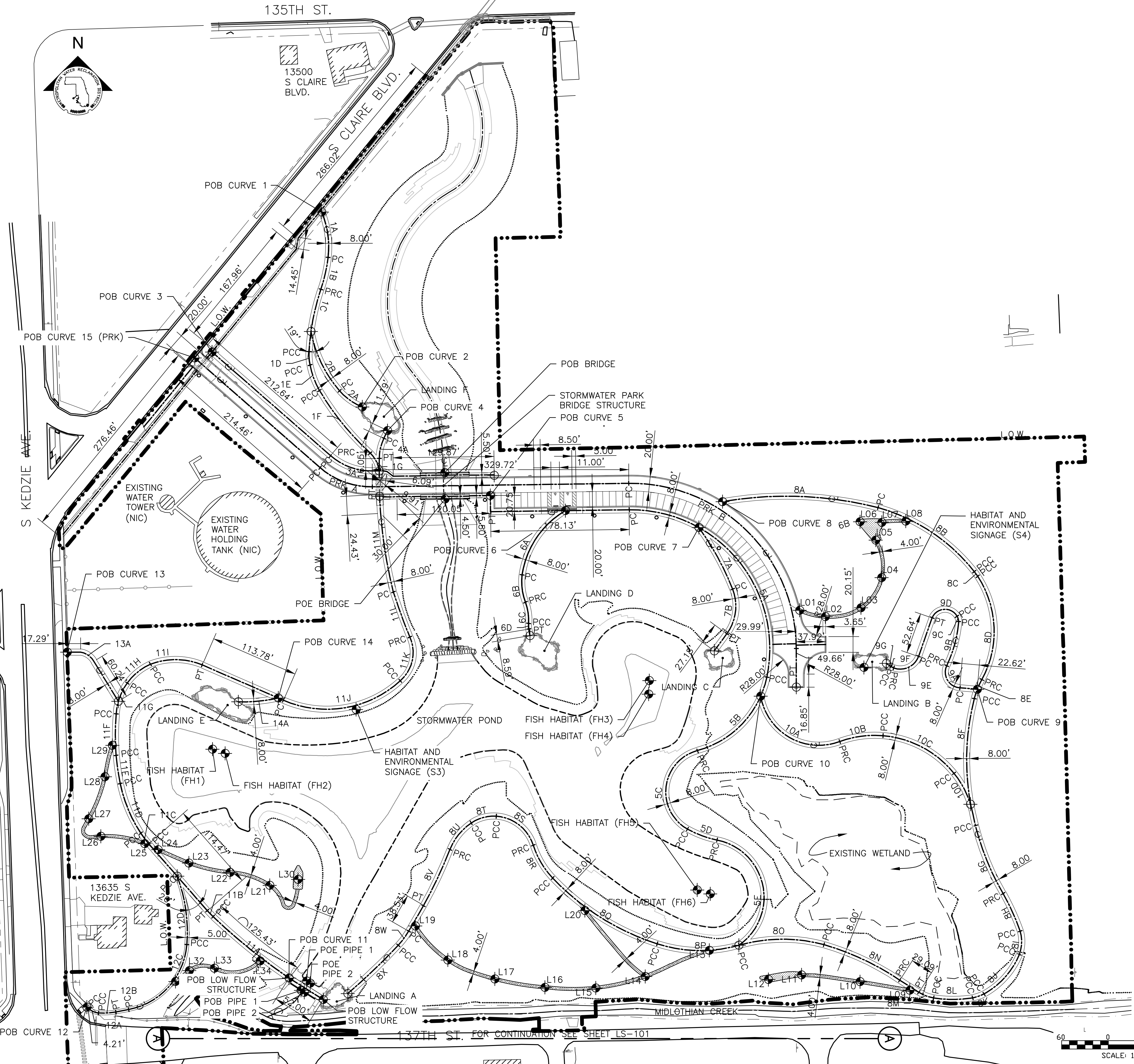
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AS SHOWN

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
LAYOUT PLAN

Sheet Number:
LS-201

Page Number: 122

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 PLOT DATE: 2/7/2024 2:44 PM PLOTTED BY: HANNAH CUSICK



LEGEND:

- L.O.W. — LIMIT OF WORK
- R.O.W. — RIGHT OF WAY
- CH — CHANNEL CENTER LINE & DIRECTION OF FLOW
- ME — CHANNEL MEAN ELEV.
- FE — 100 YR FLOOD ELEV.
- WOUS — WATERS OF UNITED STATES
- PC — PATH CENTER LINE
- MTL — MOWN TURF PATHS CENTER LINE
- ML — MOWN TURF LANDINGS
- POB — POINT OF BEGINNING
- POE — POINT OF ENDING
- EOC — 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

**METROPOLITAN WATER RECLAMATION DISTRICT
OF GREATER CHICAGO**

Designed by:
LH

Drawn by:
LH

Date:
FEB 2024

Checked by:
LH

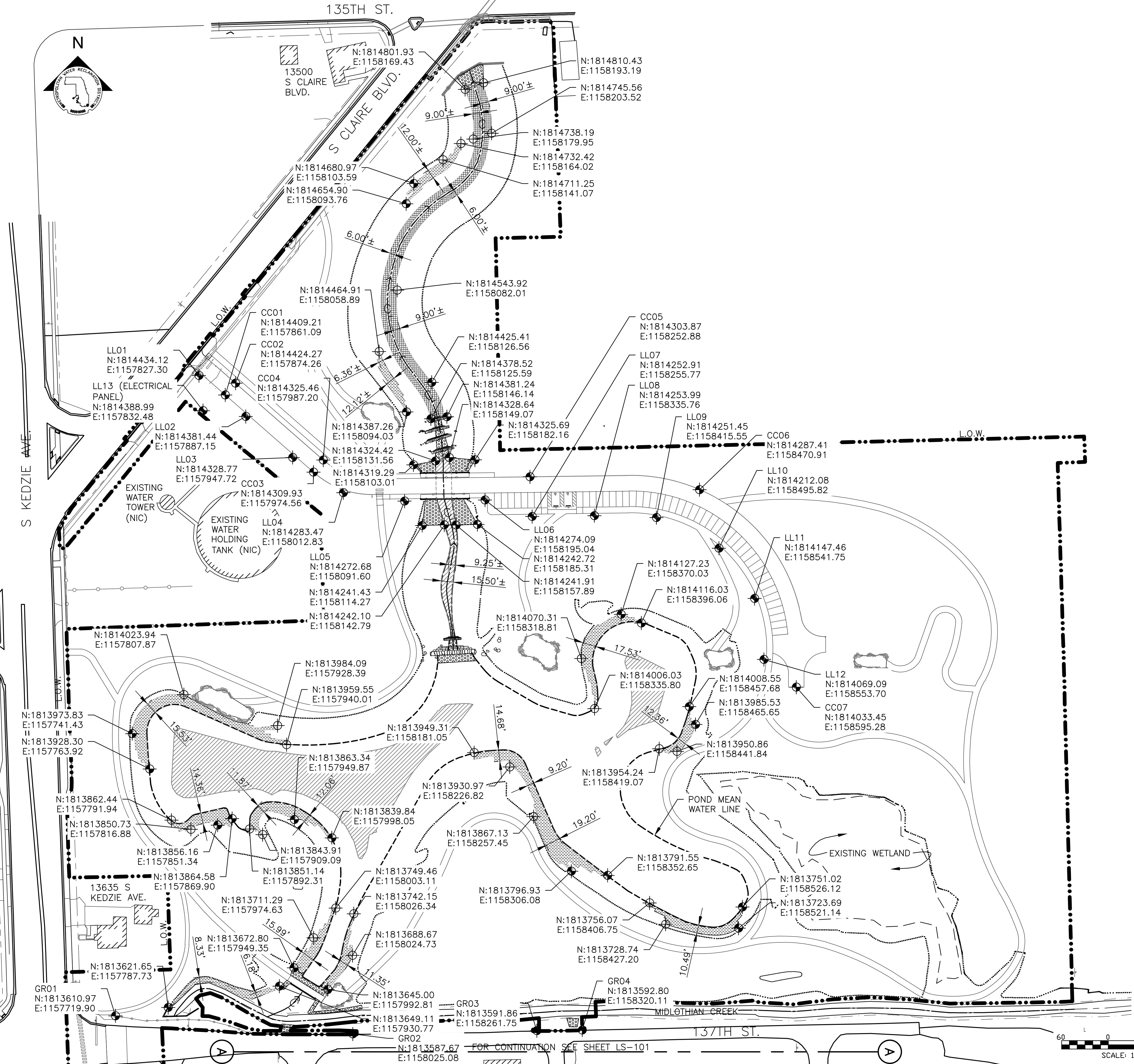
Reviewed by:
LH

Scale:
AS SHOWN

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
LAYOUT PLAN

Sheet Number:
LS-202
 Page Number: 123

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 PLOT DATE: 2/7/2024 2:44 PM PLOTTED BY: HANNAH CUSICK



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
- N: NORTHING COORDINATE
- E: EASTING COORDINATE
- 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

**METROPOLITAN WATER RECLAMATION DISTRICT
OF GREATER CHICAGO**

DONOHUE
Accurate
ENGINEERS

LIVING HABITATS

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

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
STONE & LIGHTING LAYOUT PLAN

Sheet Number:
LS-203
 Page Number: 124

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CHANNEL AND DROP LAYOUT

	NORTHING	EASTING			
POB DROP 1A	1814078.50	1158154.71			
POB CH / DROP 1B	1814096.43	1158154.54			
POB DROP 2A	1814337.85	1158140.65			
POB DROP 2B	1814353.62	1158138.95			
POB DROP 2C	1814365.61	1158137.02			
POB DROP 2D	1814377.68	1158134.36			
CURVE NO.	RADIUS	DELTA	TAN	ARC LENGTH	CHORD
	(FEET)	(DEGREE)	(FEET)	(FEET)	(FEET)
CH1	129.58	8.57	9.71	19.40	19.38
CH2	50.00	20.44	9.01	17.84	17.74
CH3	68.73	27.68	16.93	33.21	32.88
CH4	268.89	15.14	35.74	71.07	70.86
CH5	110.30	24.12	23.56	46.44	46.09
CH6	153.21	22.31	30.21	59.66	59.28
CH7	155.24	18.58	25.39	50.35	50.12
CH8	250.67	12.13	26.63	53.08	52.98
CH9	160.96	33.16	47.93	93.17	91.87
CH10	82.23	38.43	28.66	55.16	54.13
CH11	138.29	31.20	38.61	75.32	74.39
	NORTHING	EASTING			
POE CH	1814827.17	1158175.30			

MIDLOTHIAN CREEK LOW FLOW STRUCTURE

	NORTHING	EASTING
POB LOW FLOW STRUCTURE	1813659.61	1157943.30
POE LOW FLOW STRUCTURE	1813631.87	1157987.29

STORMWATER PARK BRIDGE STRUCTURE

	NORTHING	EASTING
POB BRIDGE	1814309.39	1158143.32
POE BRIDGE	1814275.39	1158143.76

STORMWATER PARK FISH HABITAT

	NORTHING	EASTING
FH1	1813953.77	1157844.75
FH2	1813948.38	1157861.03
FH3	1814041.89	1158406.38
FH4	1814024.60	1158406.52
FH5	1813772.83	1158467.97
FH6	1813767.81	1158484.74

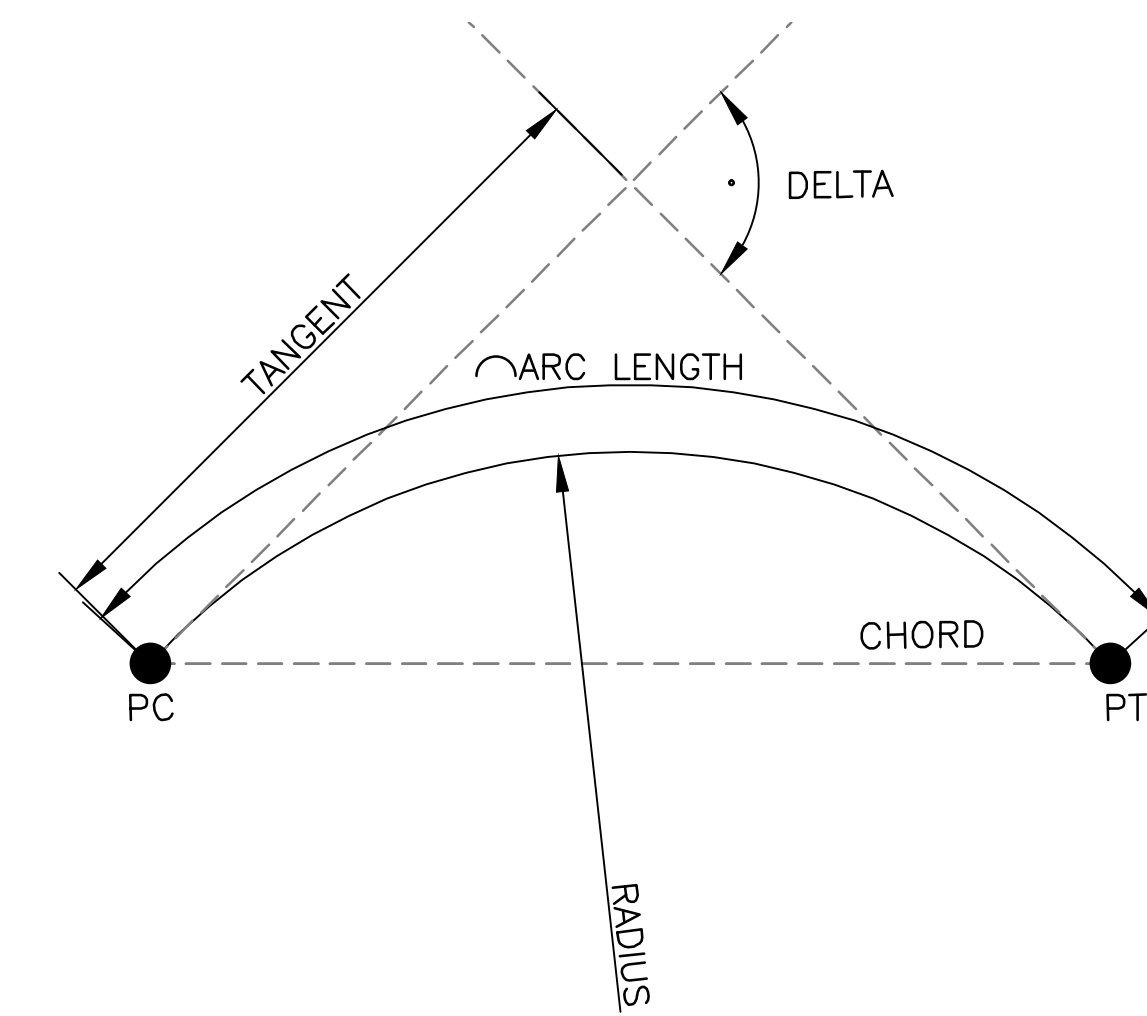
HABITAT AND ENVIRONMENTAL SIGNAGE (STORMWATER PARK)

	NORTHING	EASTING
S3	1814004.77	1158029.37
S4	1814058.91	1158682.33

POND EDGE LAYOUT

	NORTHING	EASTING			
POB PND	1814077.64	1158177.80			
CURVE NO.	RADIUS	DELTA	TAN	ARC LENGTH	CHORD
	(FEET)	(DEGREE)	(FEET)	(FEET)	(FEET)
PND1	193.23	6.52	11.02	22.02	22.00
PND2	73.01	17.55	11.27	22.37	22.28
PND3	73.44	14.18	9.13	18.18	18.13
PND4	23.44	39.15	8.33	16.02	15.71
PND5	18.28	70.77	12.98	22.58	21.17
PND6	73.19	10.26	6.57	13.11	13.09
PND7	51.92	122.30	94.25	110.83	90.95
PND8	30.56	42.42	11.86	22.63	22.11
PND9	50.81	37.60	17.30	33.35	32.75
PND10	2782.76	0.20	4.90	9.80	9.80
PND11	150.56	3.50	4.61	9.22	9.21
PND12	30.56	54.31	15.67	28.97	27.89
PND13	1434.80	0.93	11.71	23.43	23.42
PND14	49.67	82.06	43.22	71.14	65.21
PND15	58.99	50.70	27.94	52.20	50.51
PND16	310.82	18.83	51.55	102.17	101.71
PND17	208.50	10.98	20.04	39.97	39.90
PND18	22.00	78.33	17.92	30.08	27.79
PND19	94.40	25.08	21.62	42.50	42.15
PND20	34.50	46.03	14.65	27.72	26.98
PND21	125.90	15.69	17.35	34.49	34.38
PND22	731.38	6.62	42.30	84.52	84.47
PND23	2913.46	1.96	49.86	99.73	99.72
PND24	50.56	28.61	12.89	25.25	24.98
PND25	29.44	69.51	20.43	35.72	33.56
PND26	99.44	9.44	8.21	16.39	16.37
PND27	199.37	7.19	12.53	25.03	25.01
PND28	79.44	40.74	29.49	56.49	55.30
PND29	450.92	8.47	33.40	66.68	66.61
PND30	156.44	6.10	8.33	16.66	16.65
PND31	156.44	6.99	9.55	19.09	19.07
PND32	64.86	25.35	14.58	28.70	28.46
PND33	2.56	80.12	2.15	3.58	3.29
PND34	2.56	94.00	2.74	4.20	3.74
PND35	49.44	12.87	5.57	11.11	11.08
PND36	566.43	2.56	12.67	25.34	25.33
PND37	566.43	3.90	19.30	38.59	38.58
PND38	180.44	10.98	17.35	34.60	34.54
PND39	90.80	46.17	38.70	73.18	71.21
PND40	124.40	9.94	10.82	21.59	21.56
PND41	75.20	40.77	27.94	53.52	52.39
PND42	25.97	37.88	8.91	17.17	16.85
PND43	13.44	33.76	4.07	7.92	7.80
PND44	2.56	121.75	4.59	5.44	4.47
PND45	10.56	32.01	3.02	5.90	5.82
PND46	5.56	17.62	0.86	1.71	1.70
PND47	4.44	82.84	3.91	6.42	5.87
PND48	9.44	30.52	2.57	5.03	4.97
PND49	15.56	85.57	14.40	23.24	21.13
PND50	83.69	36.97	27.98	54.01	53.07
PND51	968.40	3.91	33.09	66.17	66.15
PND52	35.56	116.25	57.18	72.15	60.39
PND53	49.44	15.51	6.73	13.39	13.34
PND54	332.44	14.21	41.44	82.47	82.25
PND55	271.05	14.21	33.78	67.23	67.05
PND56	102.02	73.06	75.58	130.10	121.46

	NORTHING	EASTING			
POE, PND	1814074.25	1158134.28			



1 LAYOUT DIAGRAM
SCALE: NTS

Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5F

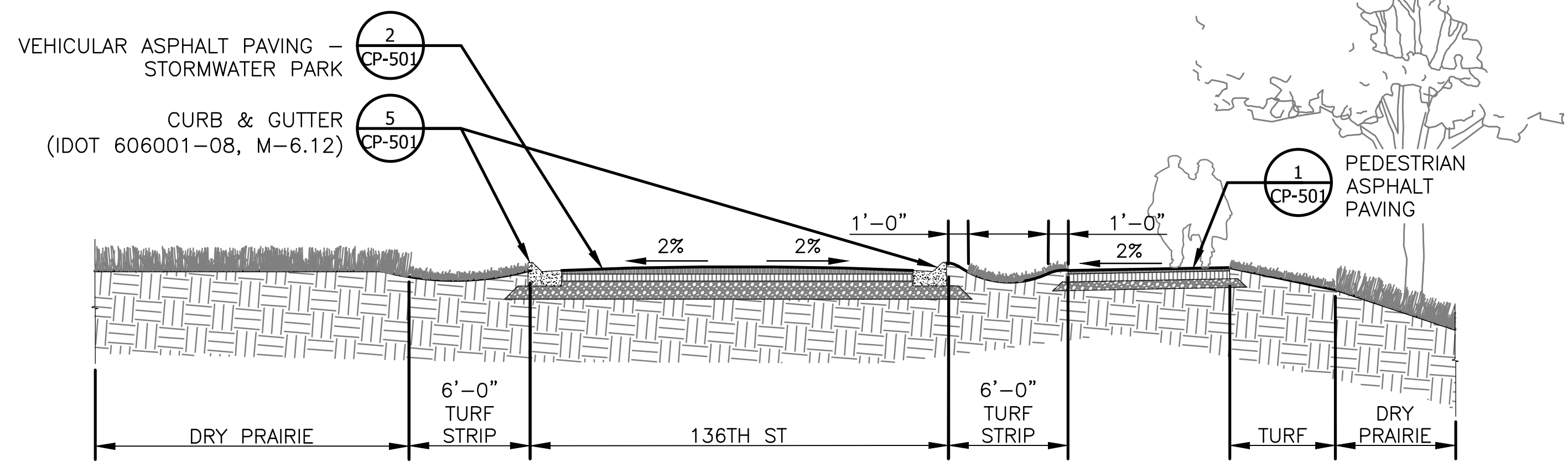
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, CSA
LITTLE CALUMET RIVER WATERSHED
LAYOUT SCHEDULE

DONOHUE
Accurate
LIVING HABITATS

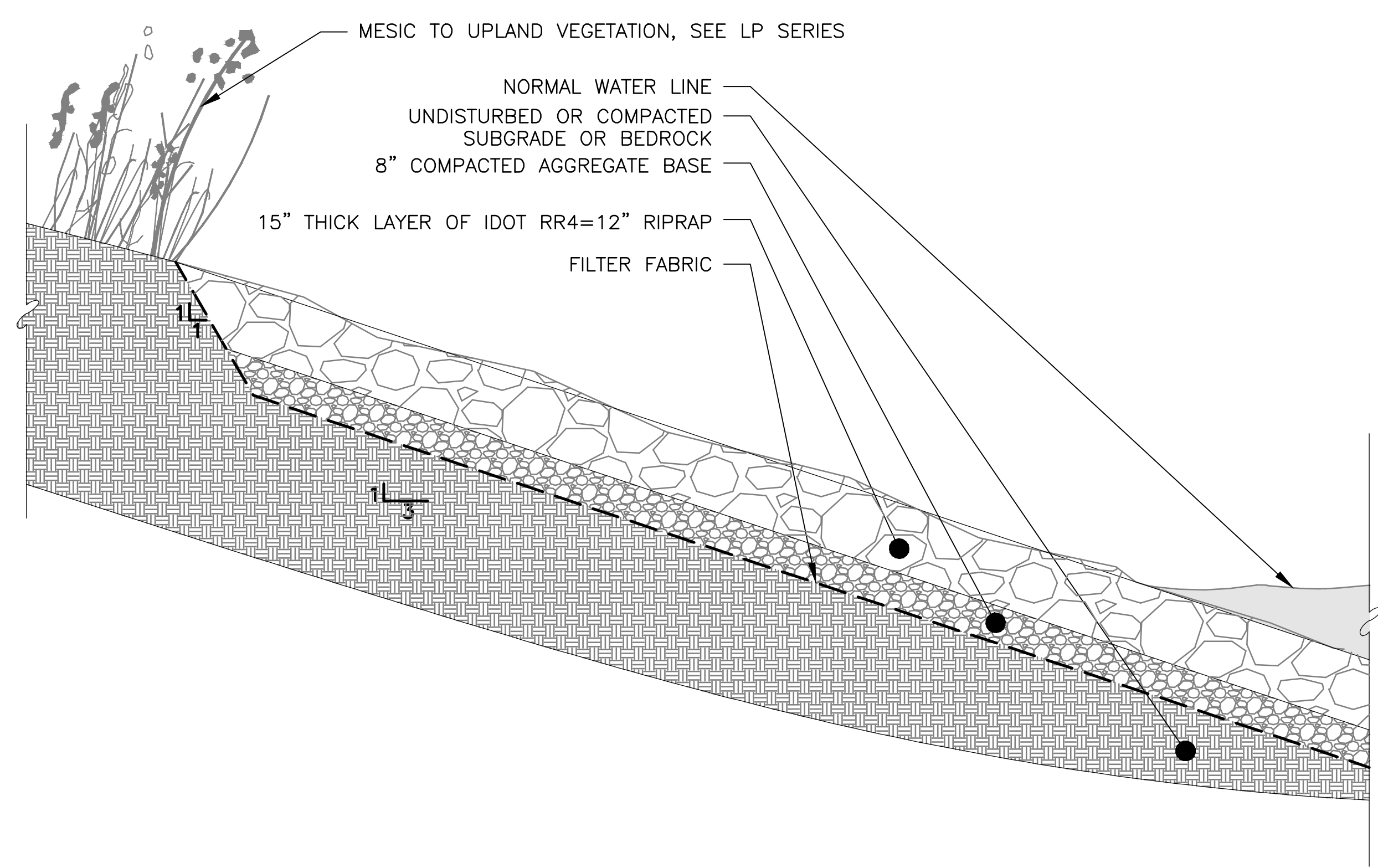
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Drawn by: LH		Scale: AS SHOWN	

PLOT DATE: 2/7/2024 2:45 PM PLOTTED BY: HANNAH CUSICK

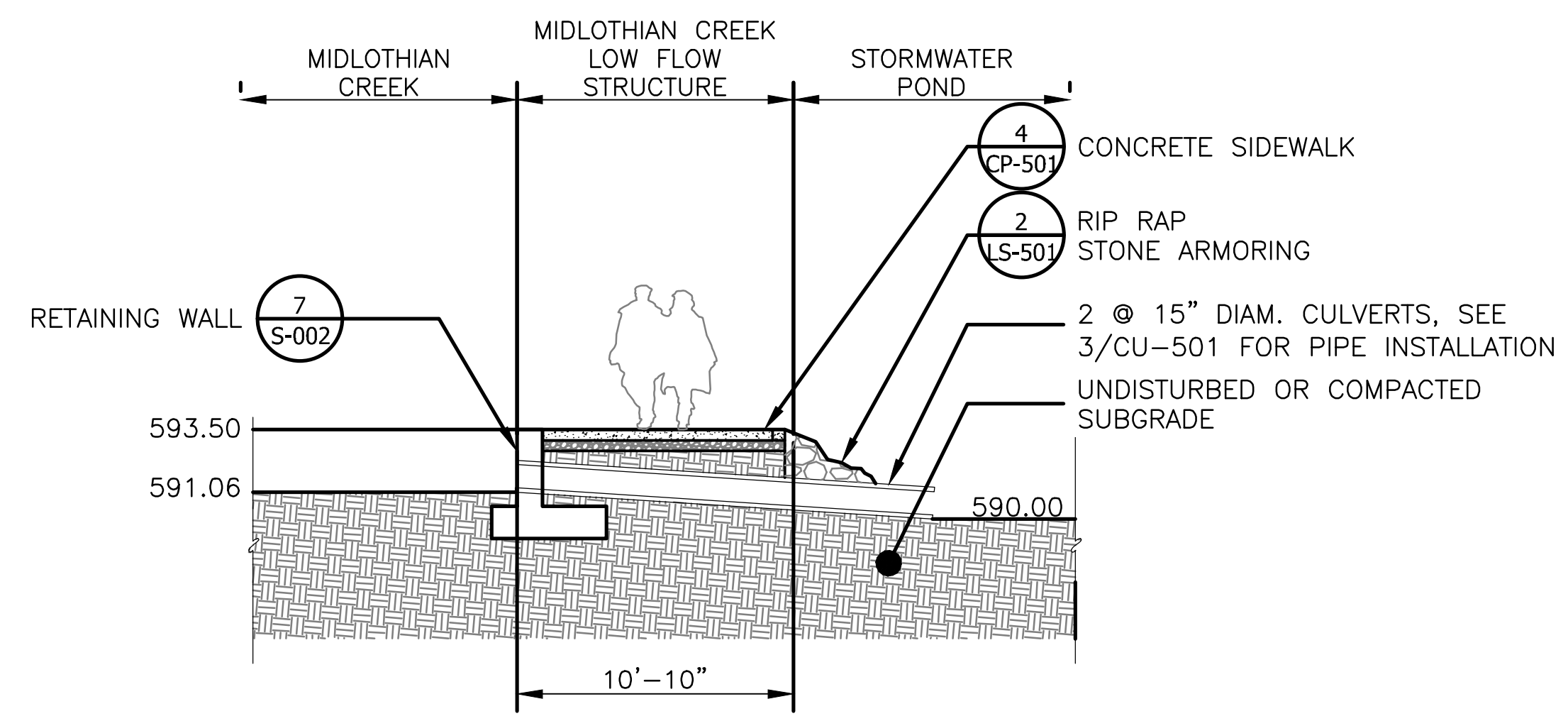
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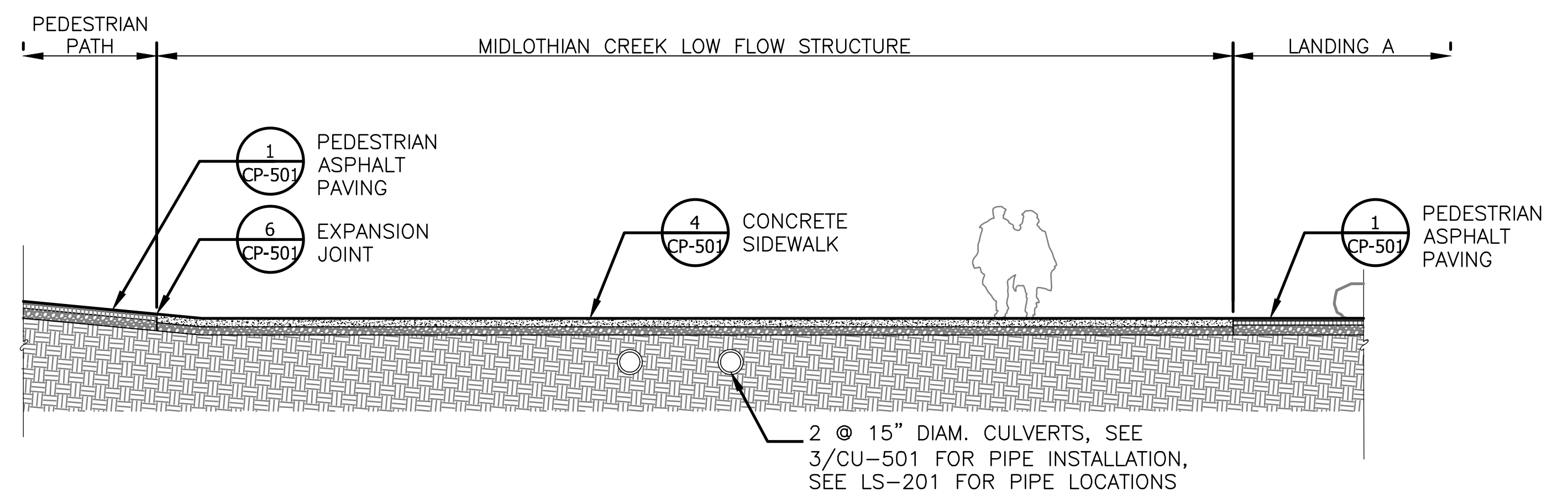
1 CROSS SECTION AT 136TH ST
 SCALE: 3/16" = 1'-0"



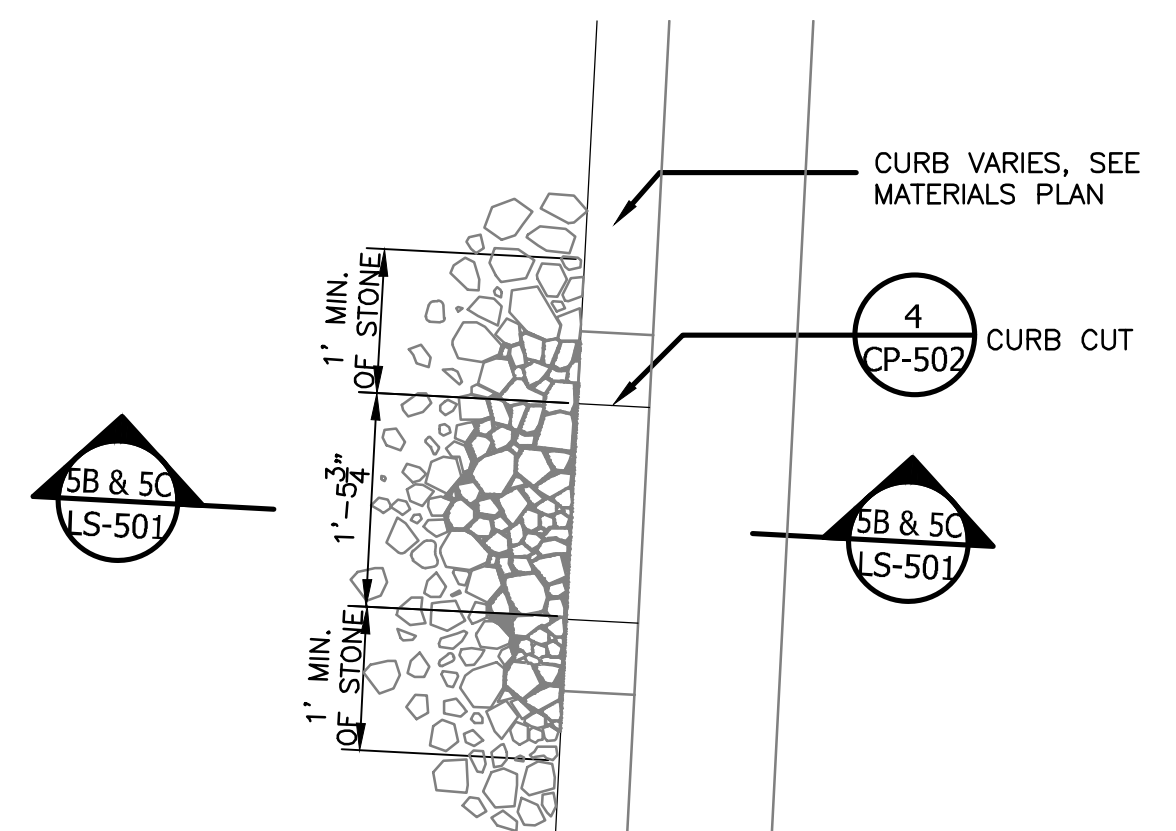
2 RIP RAP STONE ARMORING
 SCALE: 1" = 2'-0"



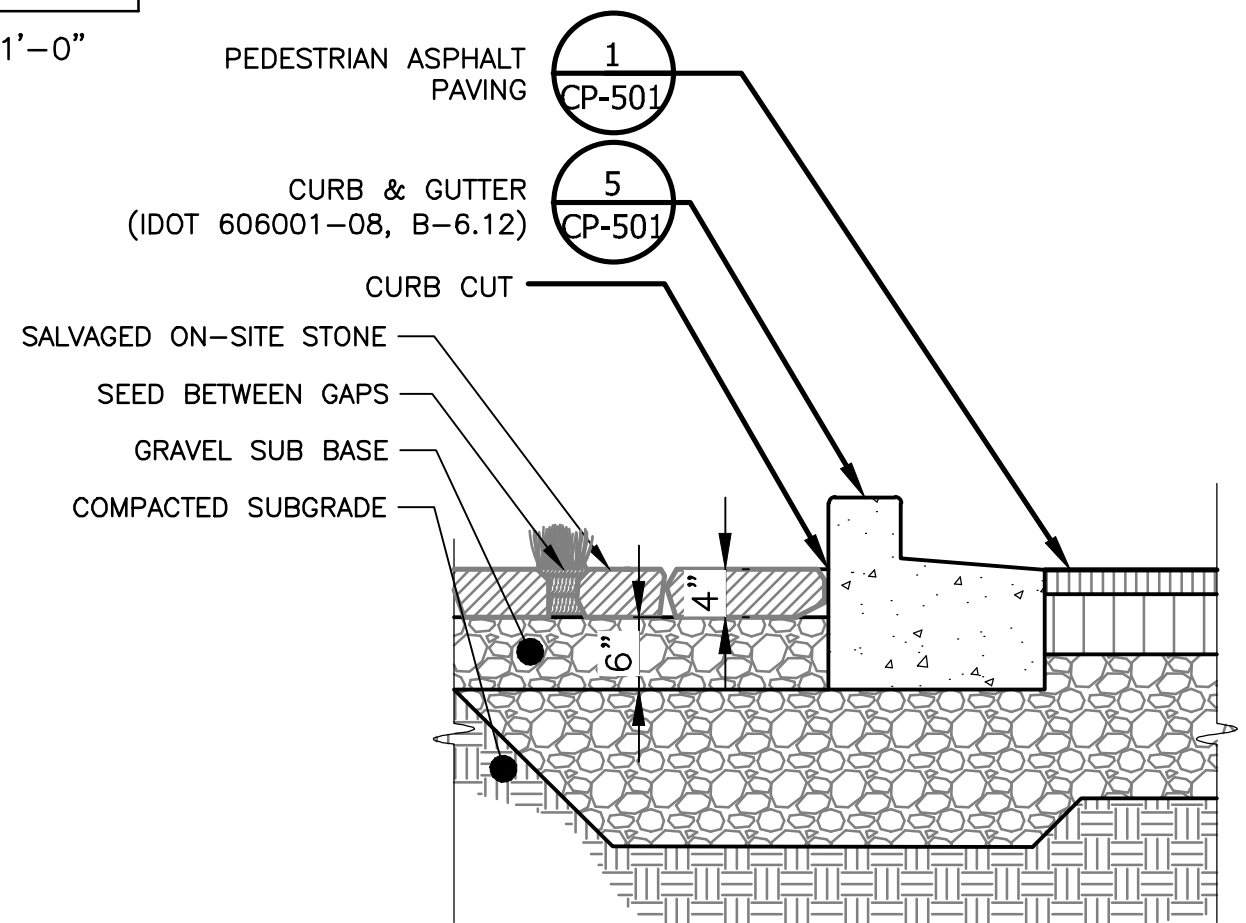
3 MIDLOTHIAN CREEK LOW FLOW STRUCTURE - SECTION
 SCALE: 3/16" = 1'-0"



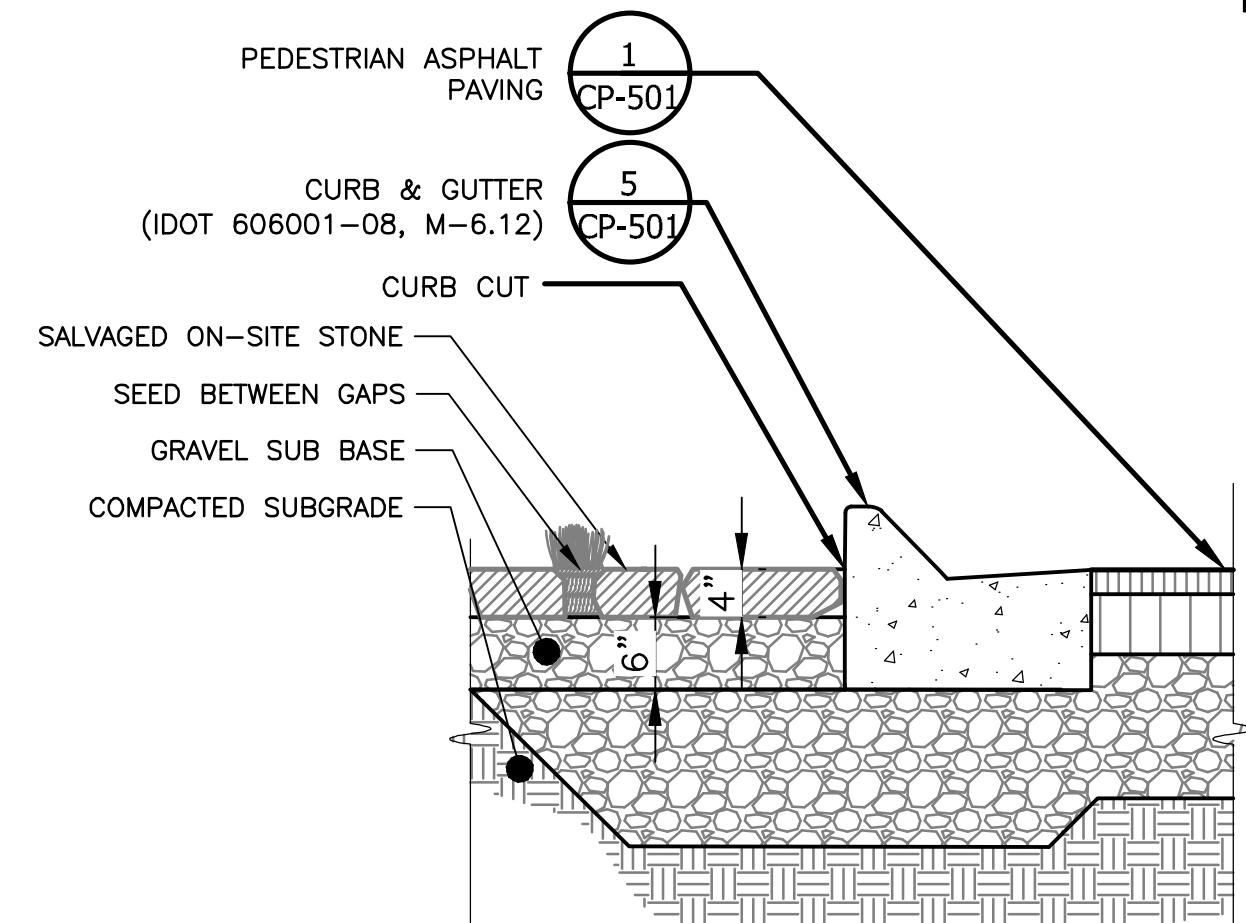
4 MIDLOTHIAN CREEK LOW FLOW STRUCTURE - LONGITUDINAL SECTION
 SCALE: 3/16" = 1'-0"



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

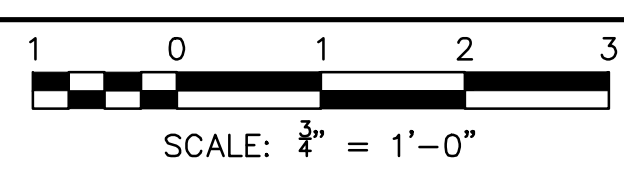


5B STONE LAYOUT OF INFILTRATION AREA - STANDARD CURB
 SCALE: 3/4" = 1'-0"



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

5 STONE LAYOUT OF INFILTRATION AREA



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METROPOLITAN WATER RECLAMATION DISTRICT
 OF GREATER CHICAGO

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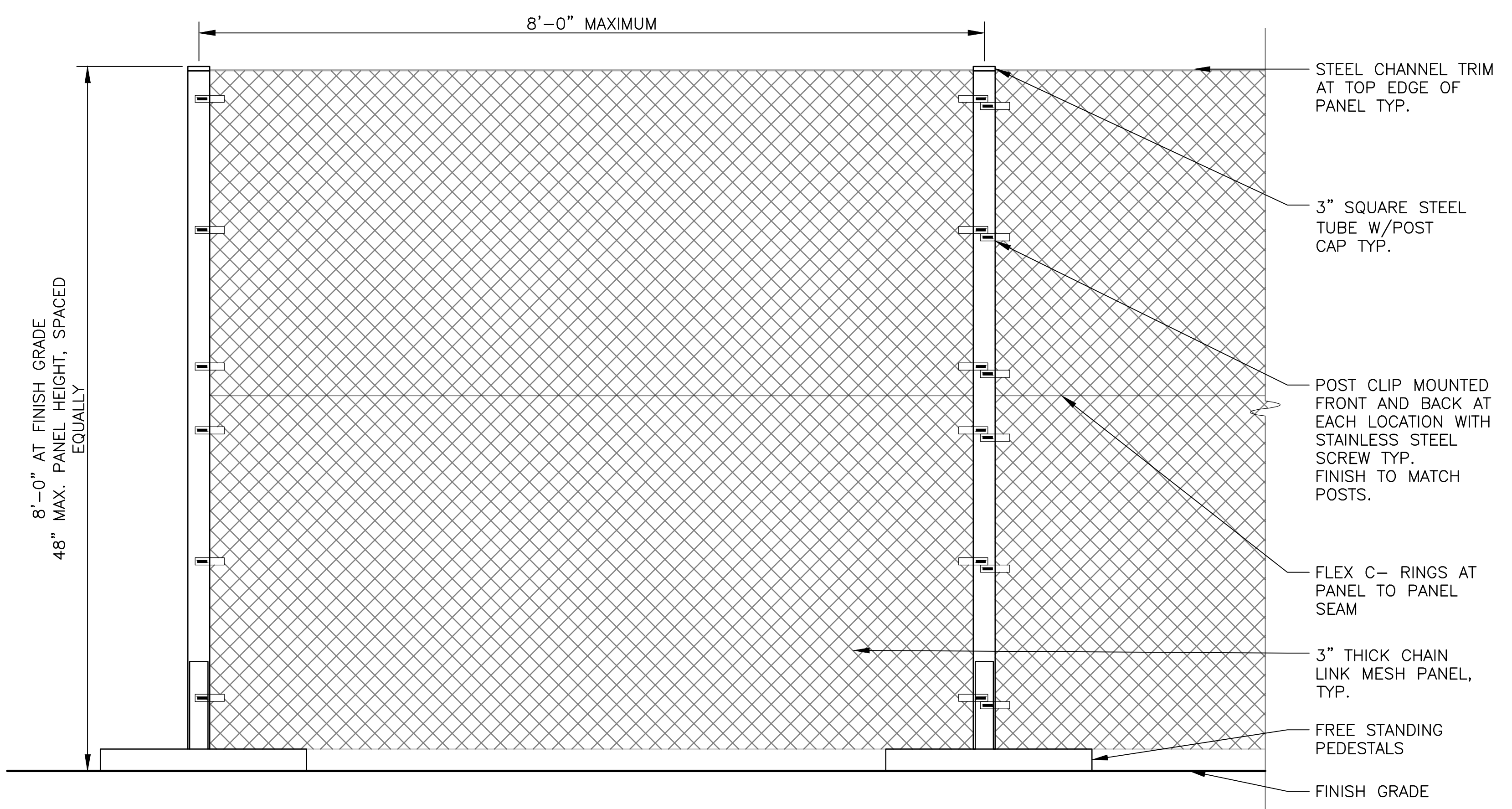
REVIEWED BY: LH
 SCALE: AS SHOWN

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
 SITE DETAILS

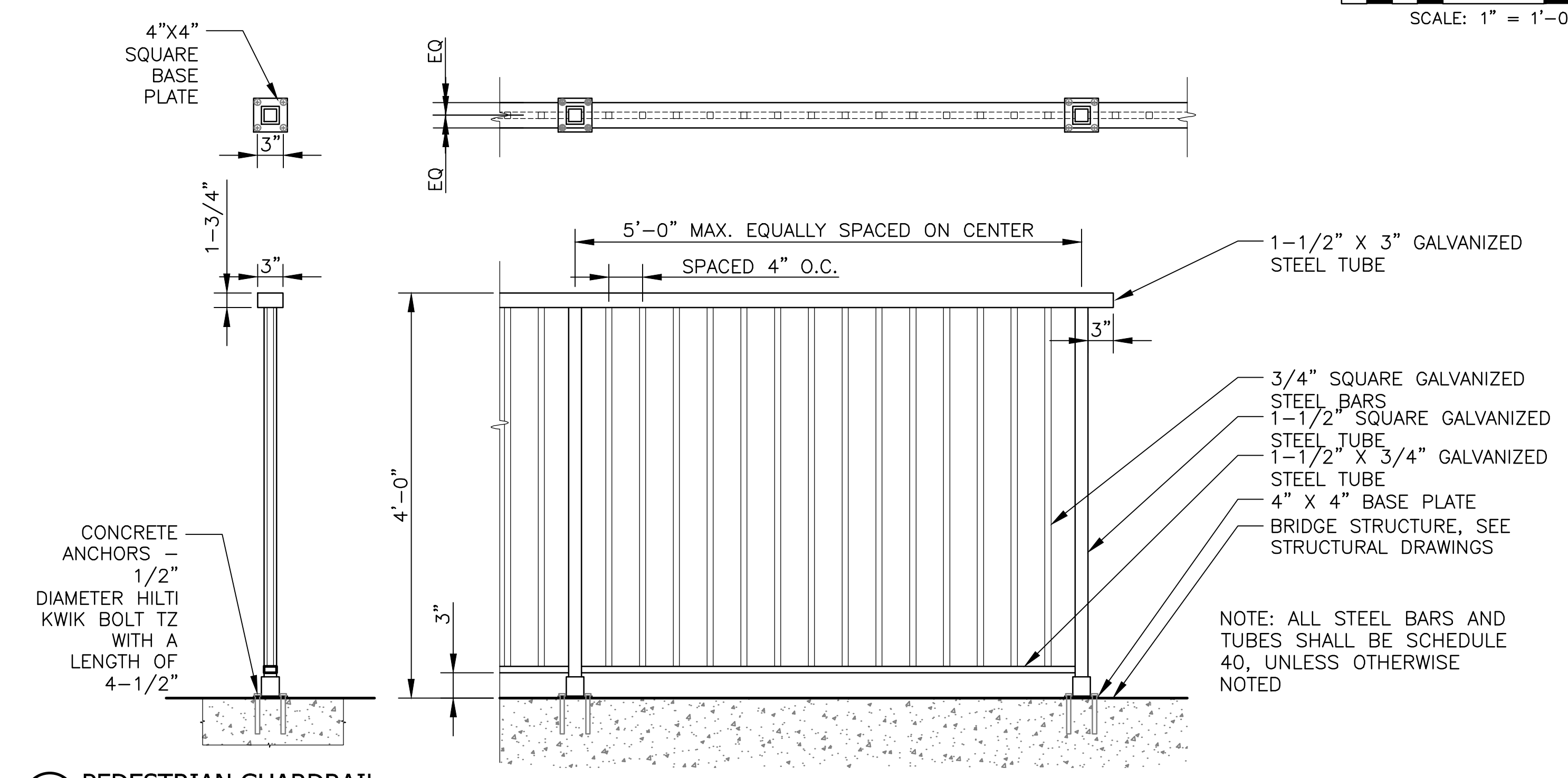
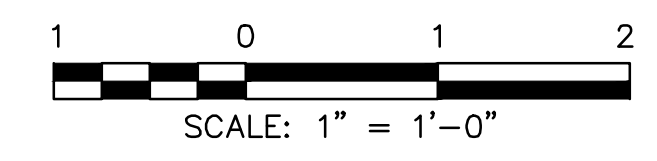
DONOHUE
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Sheet Number:
 LS-501
 Page Number: 127

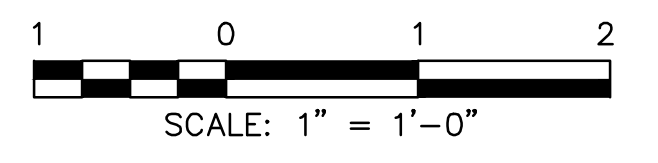
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1 TREE PROTECTION FENCE
 SCALE: 1" = 1'-0"



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



**METROPOLITAN WATER RECLAMATION DISTRICT
 OF GREATER CHICAGO**

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
FENCE HANDRAIL GUARD RAIL DETAILS

Designed by: LH
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 Drawn by: LH
 Reviewed by: LH
 Date: FEB 2024
 Scale: AS SHOWN

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 CONSULTING ENGINEERS

DONOHUE
 ENGINEERS

LIVING HABITATS

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 ENGINEERS

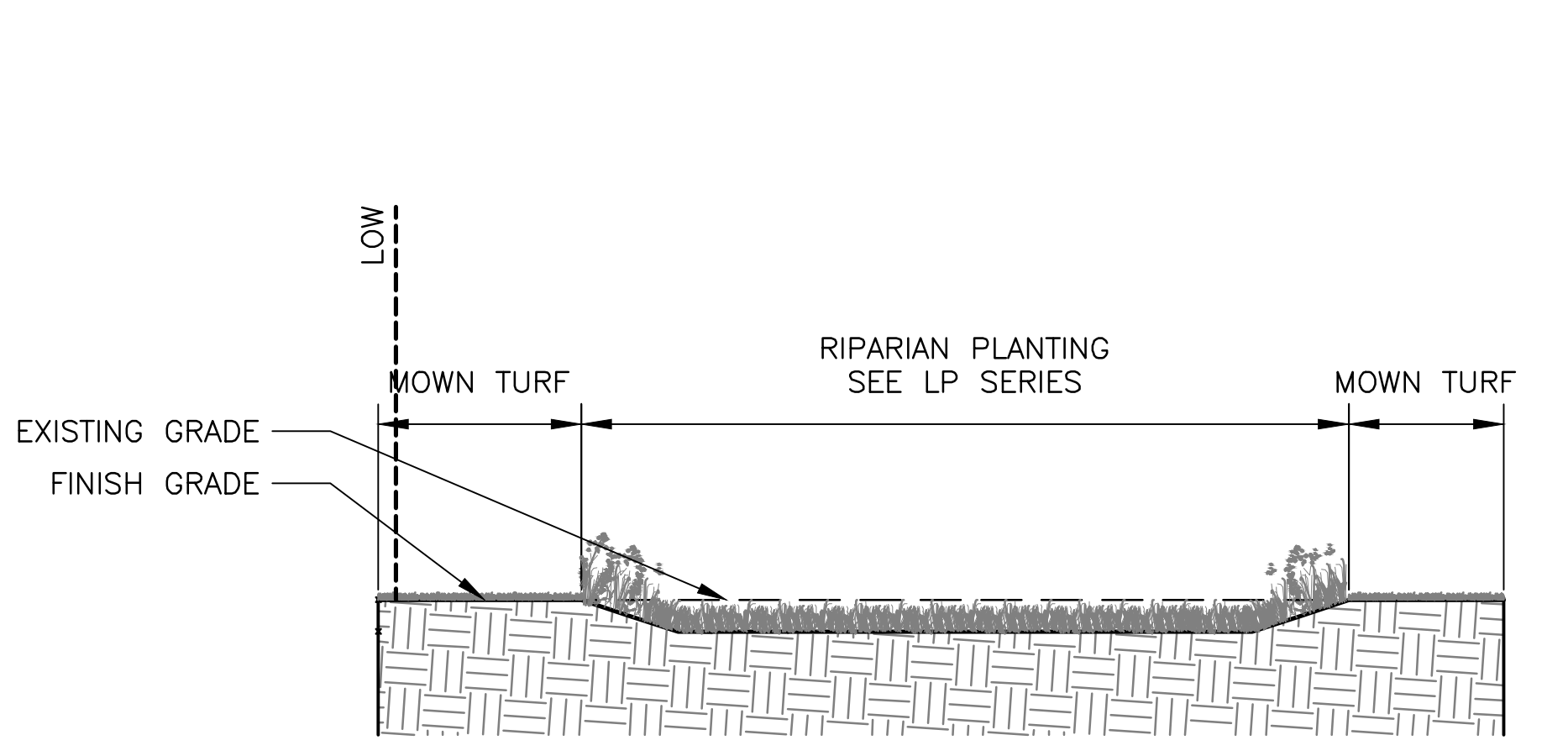
OIEA
 OVERBEN & ASSOCIATES, INC.
 CONSULTING ENGINEERS

Rev.	Description	Appr.	Date

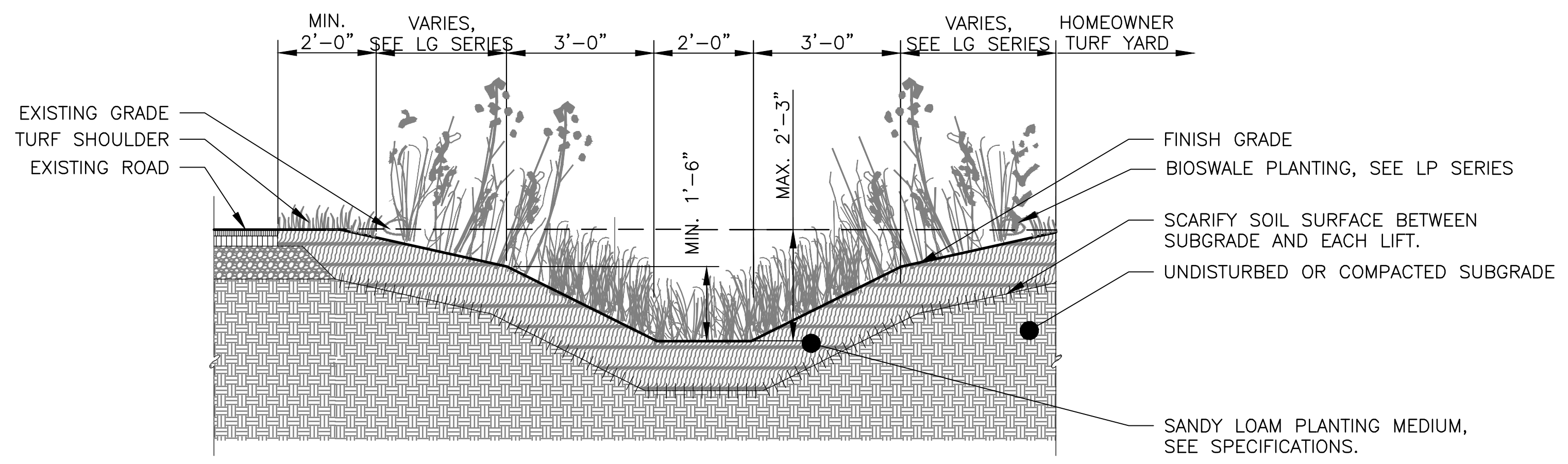
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LS-502

Page Number: 128

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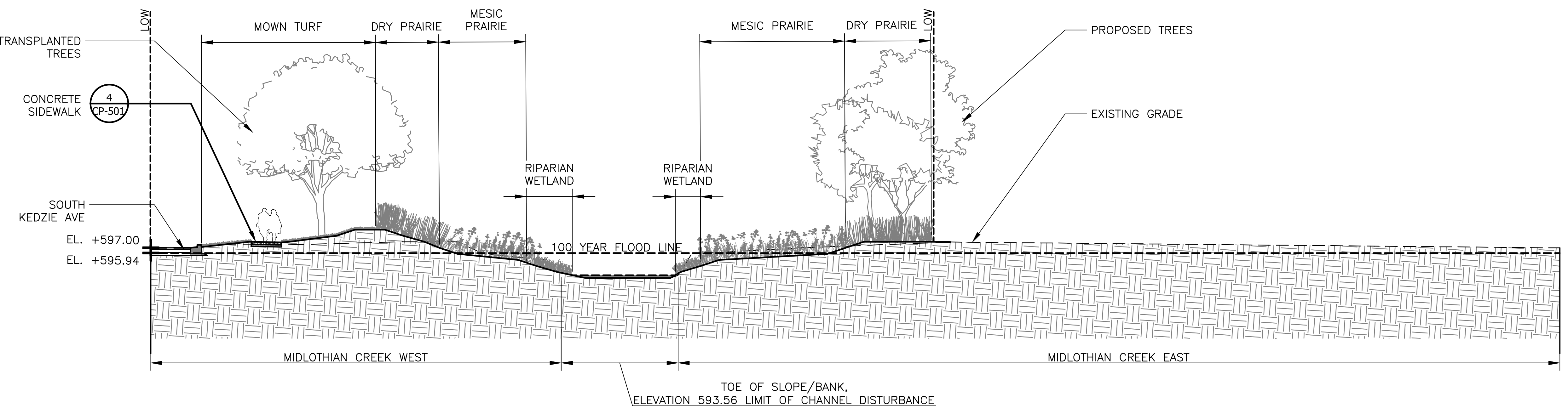
1 SECTION/ELEVATION ACROSS THE RAIN GARDEN
 SCALE: 1" = 10'-0"



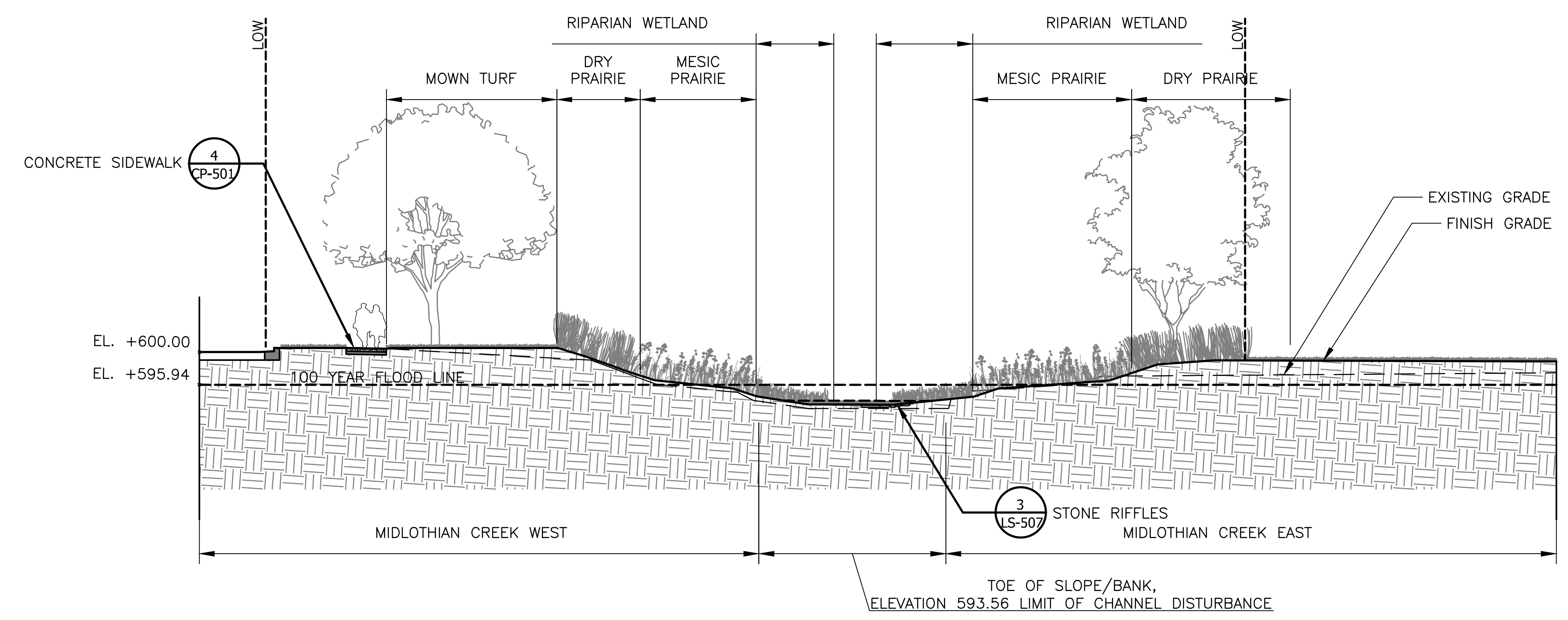
2 TYPICAL ROAD SWALE
 SCALE: 1"=2'-0"

NOTES:
 1. CONTRACTOR TO CONFIRM INFILTRATION OF SUBGRADE PRIOR TO PLACEMENT OF TOPSOIL.

Rev.	Description	Appr.	Date



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
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 Scale: AS SHOWN

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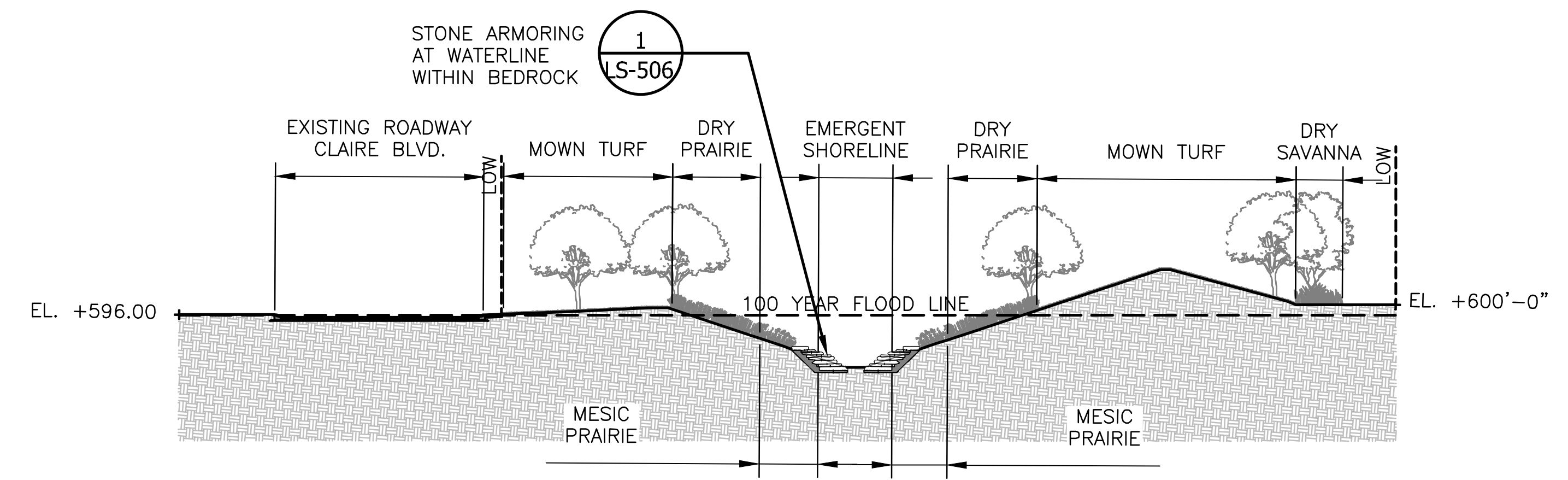
LIVING HABITATS

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
 SITE SECTIONS

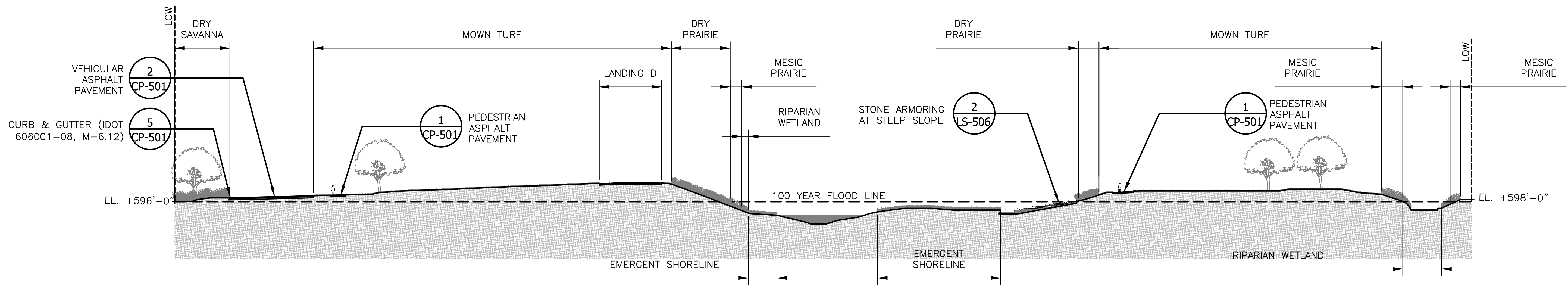
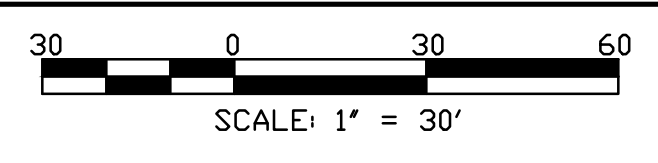
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SECTION NOTES:
 1. REFER TO LP SERIES FOR ALL REFERENCES TO PLANTING.
 2. SECTIONS ARE FOR REFERENCE ONLY.

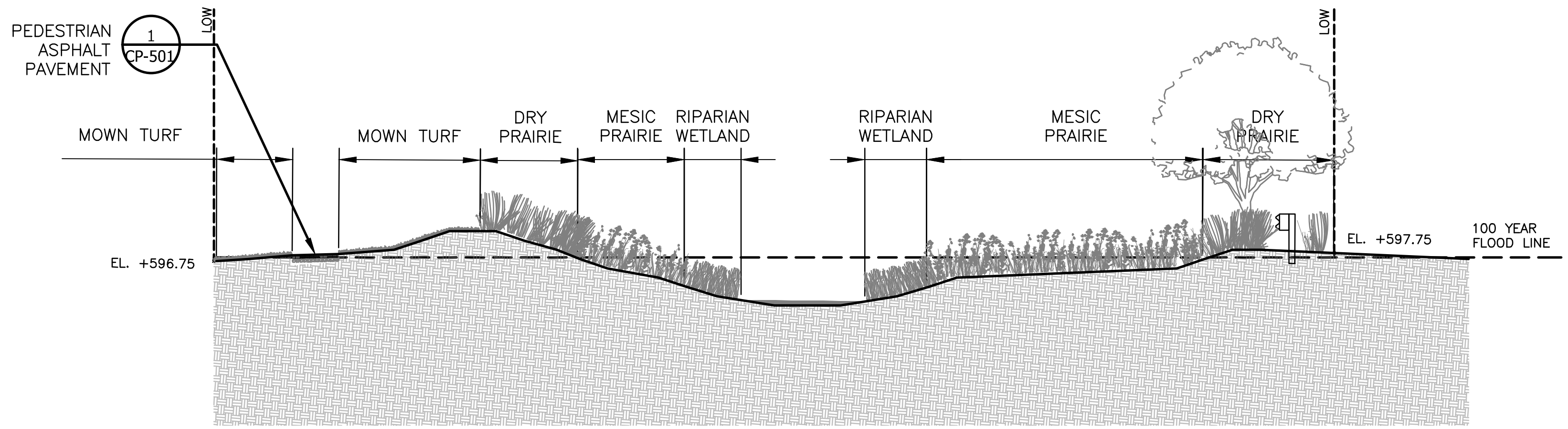
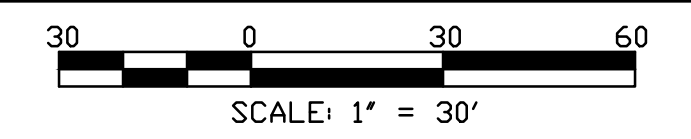
Rev.	Description	Appr.	Date



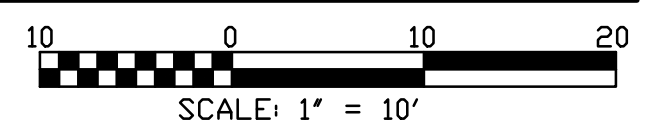
4 SITE SECTION - DIVERSION CHANNEL
 SCALE: 1" = 30'-0"



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

Designed by: LH
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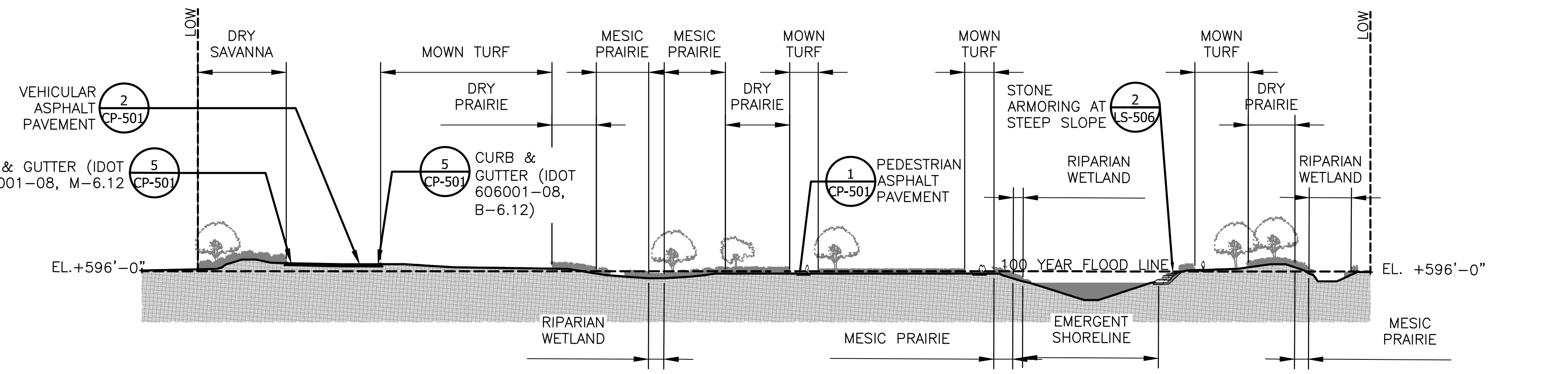
DONOHUE
 ACCURATE
 ENGINEERS & ASSOCIATES, INC.
 CONSULTING ENGINEERS

ZIM
 LIVING HABITATS

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
 SITE SECTIONS

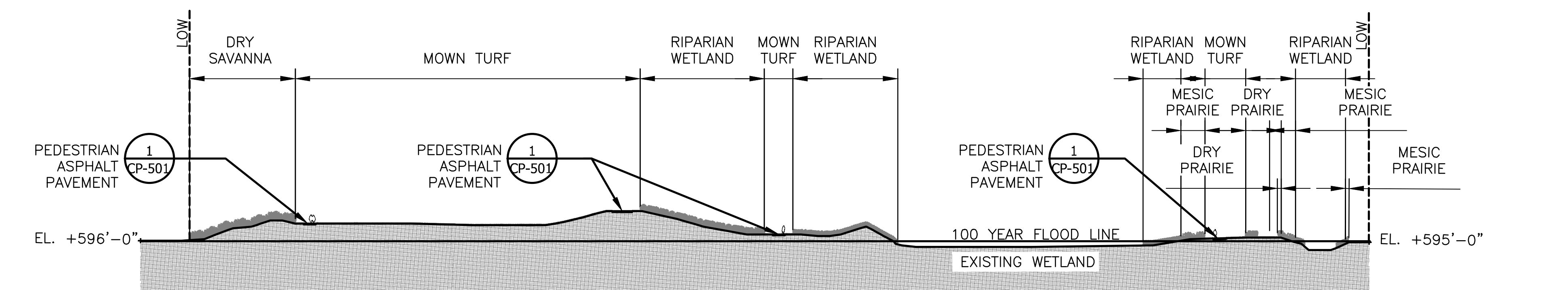
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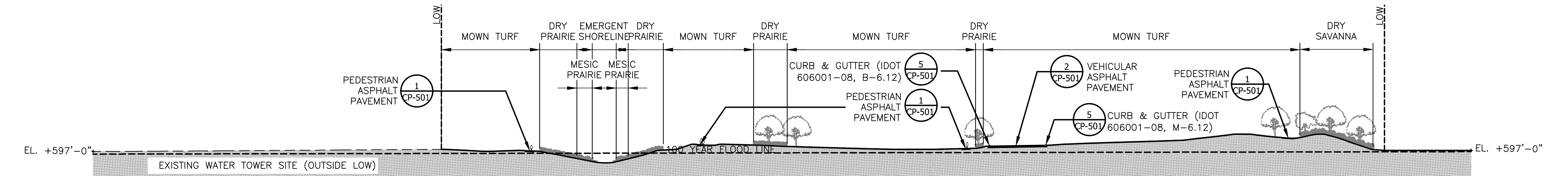


6 TYPICAL SITE SECTION
 SCALE: 1" = 50'-0"

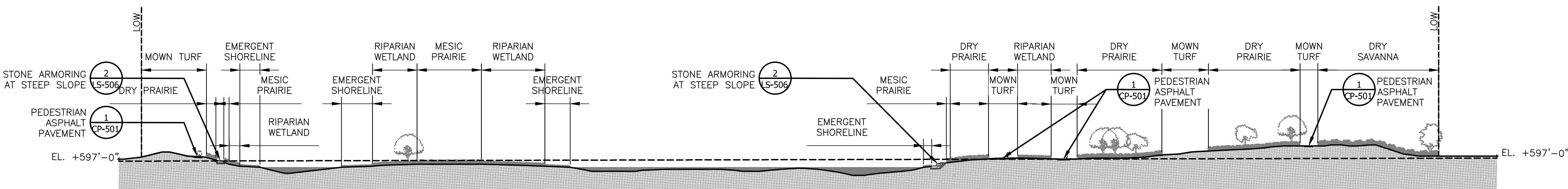
SECTION NOTES:
 1. REFER TO LP SERIES FOR ALL REFERENCES TO PLANTING.
 2. SECTIONS ARE FOR REFERENCE ONLY.



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



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



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

Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT
 OF GREATER CHICAGO

Designed by: LH
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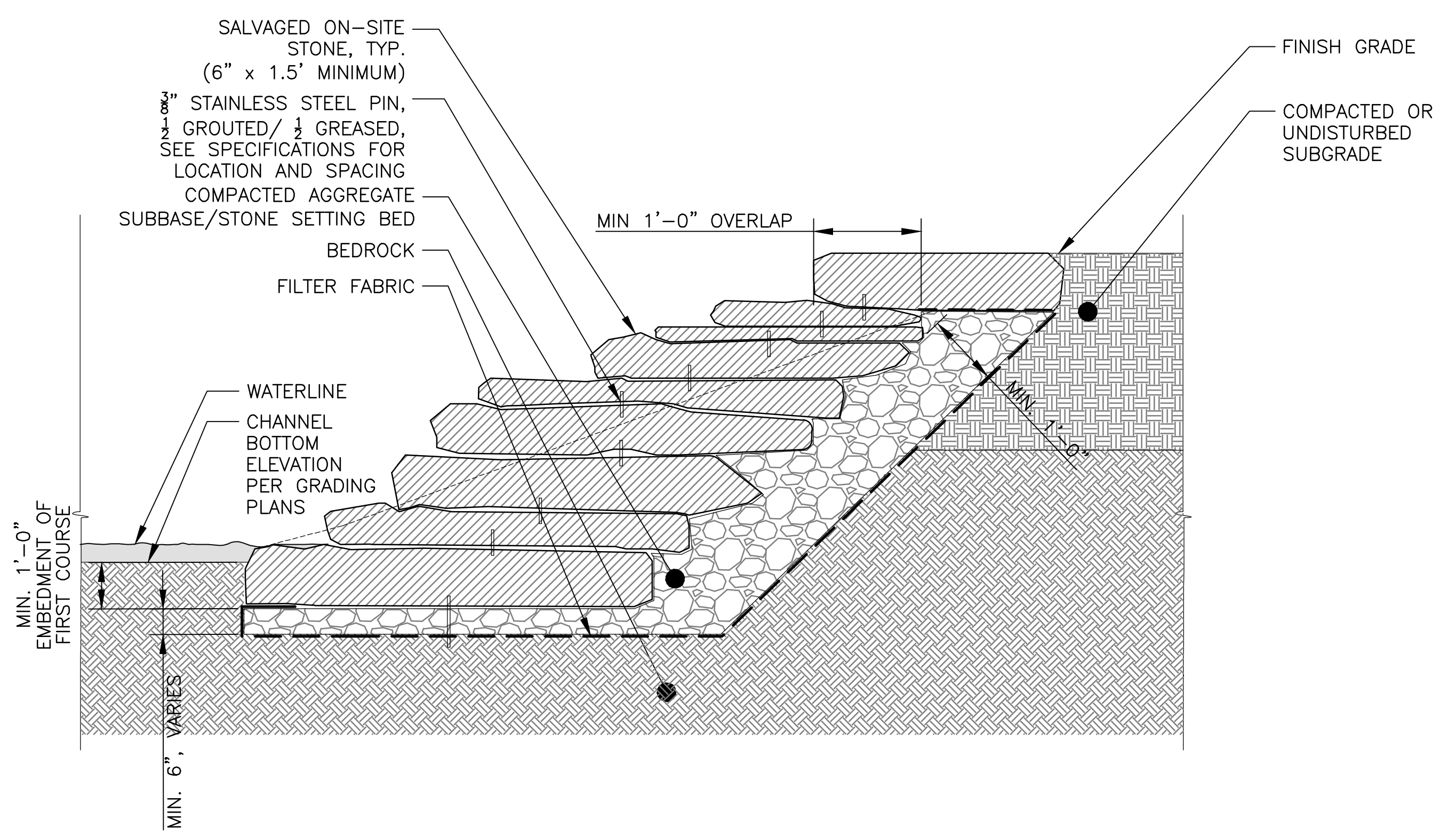
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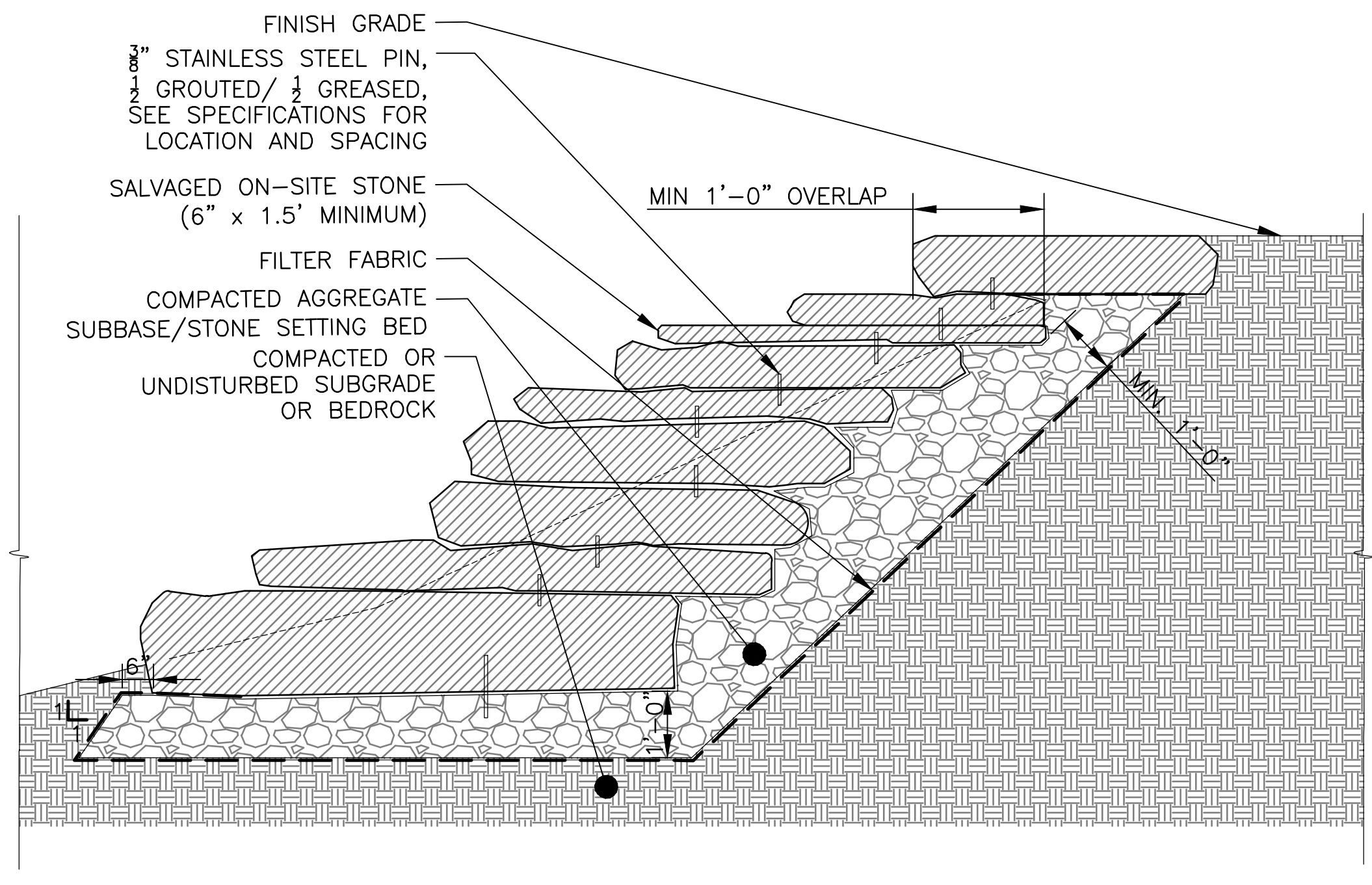
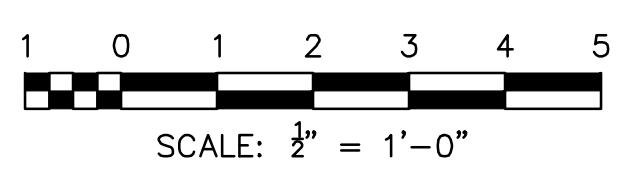
CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
 SITE SECTIONS

SECTION NOTES:

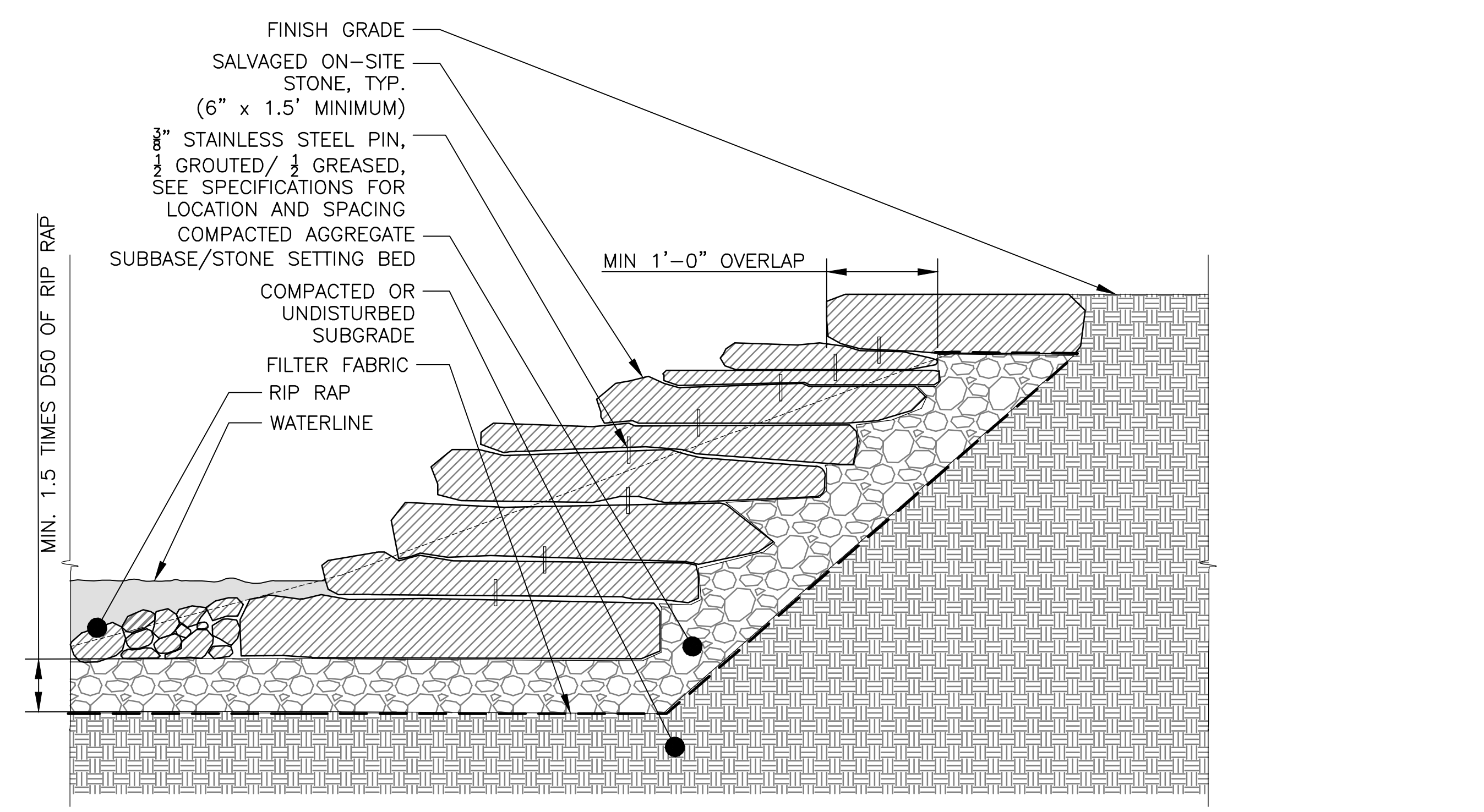
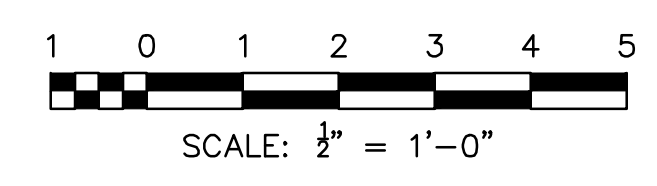
1. DETAILS GENERALLY USED IN AREAS EXCEEDING 3:1 SLOPES, SEE LAYOUT PLANS



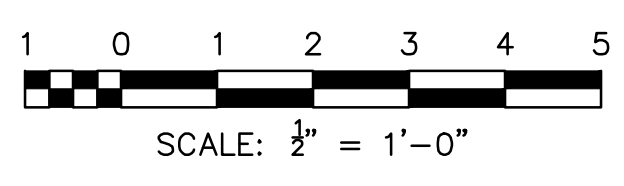
1 STONE ARMORING AT WATERLINE WITHIN BEDROCK
 1/2" = 1'-0"



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



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



Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT
 OF GREATER CHICAGO

DESIGNED BY: LH
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 DATE: FEB 2024
 SCALE: AS SHOWN

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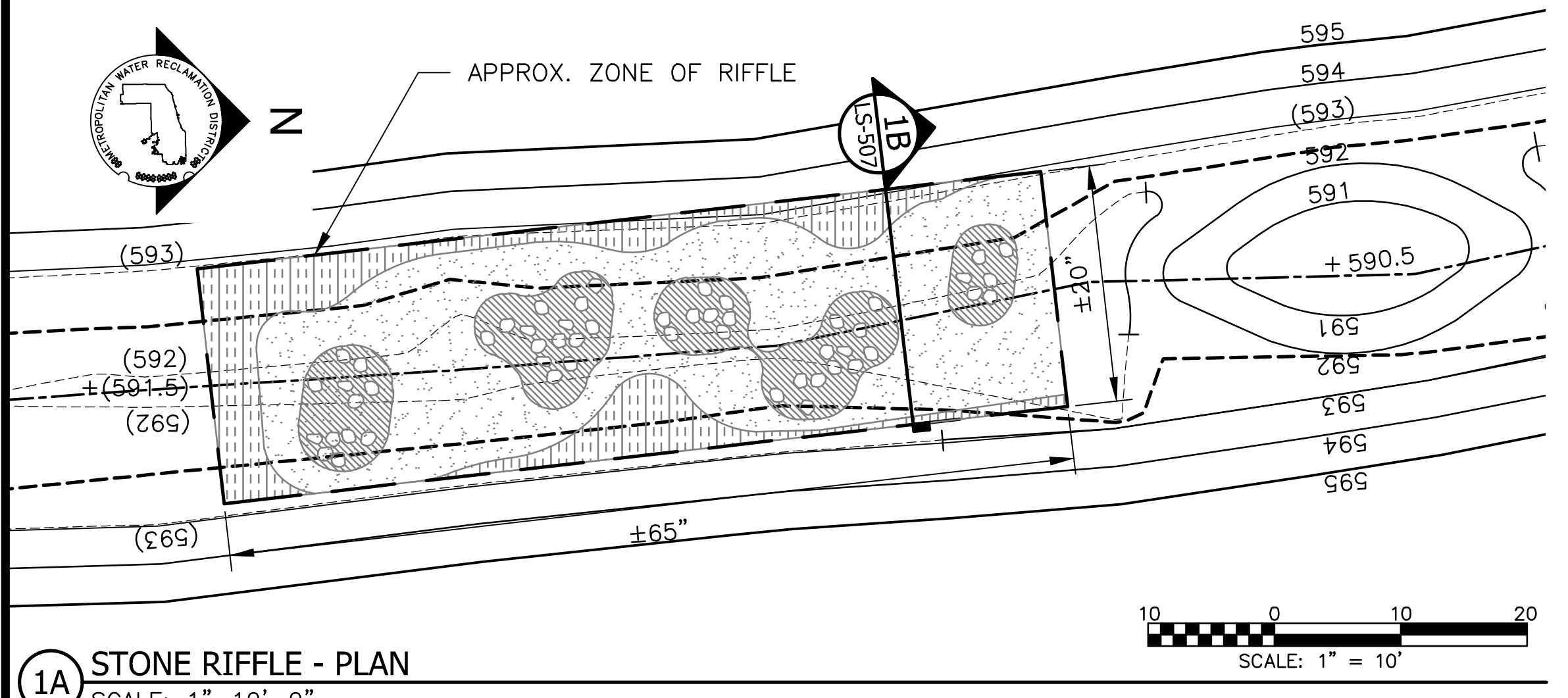
ZIM
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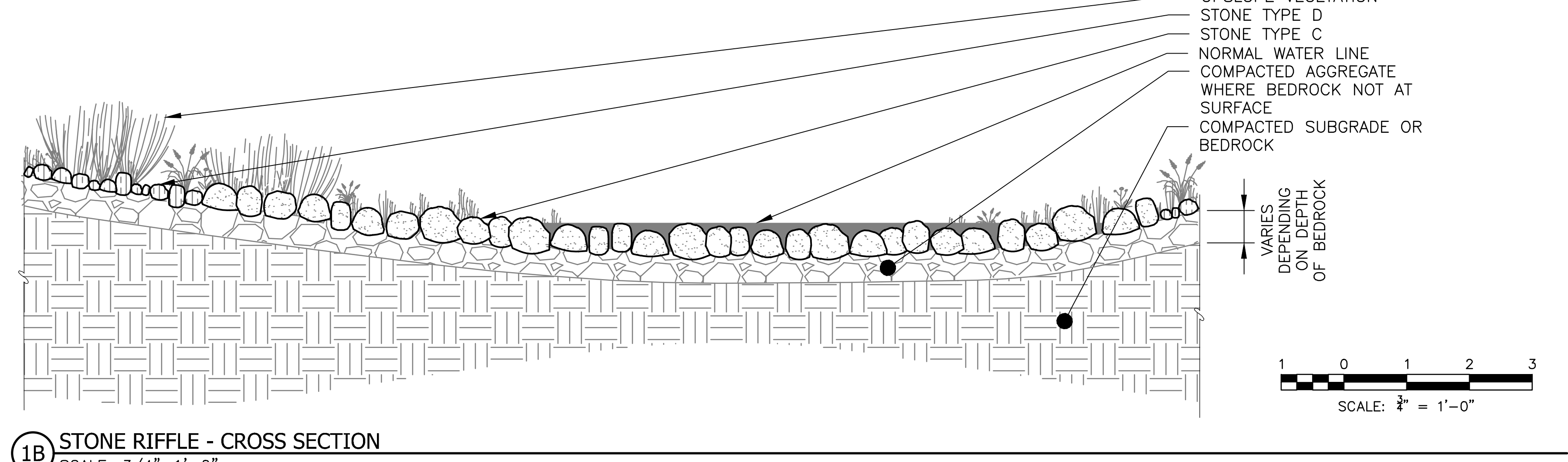
CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
 STONE DETAILS

PLOT DATE: 2/7/2024 2:46 PM PLOTTED BY: HANNAH CUSICK

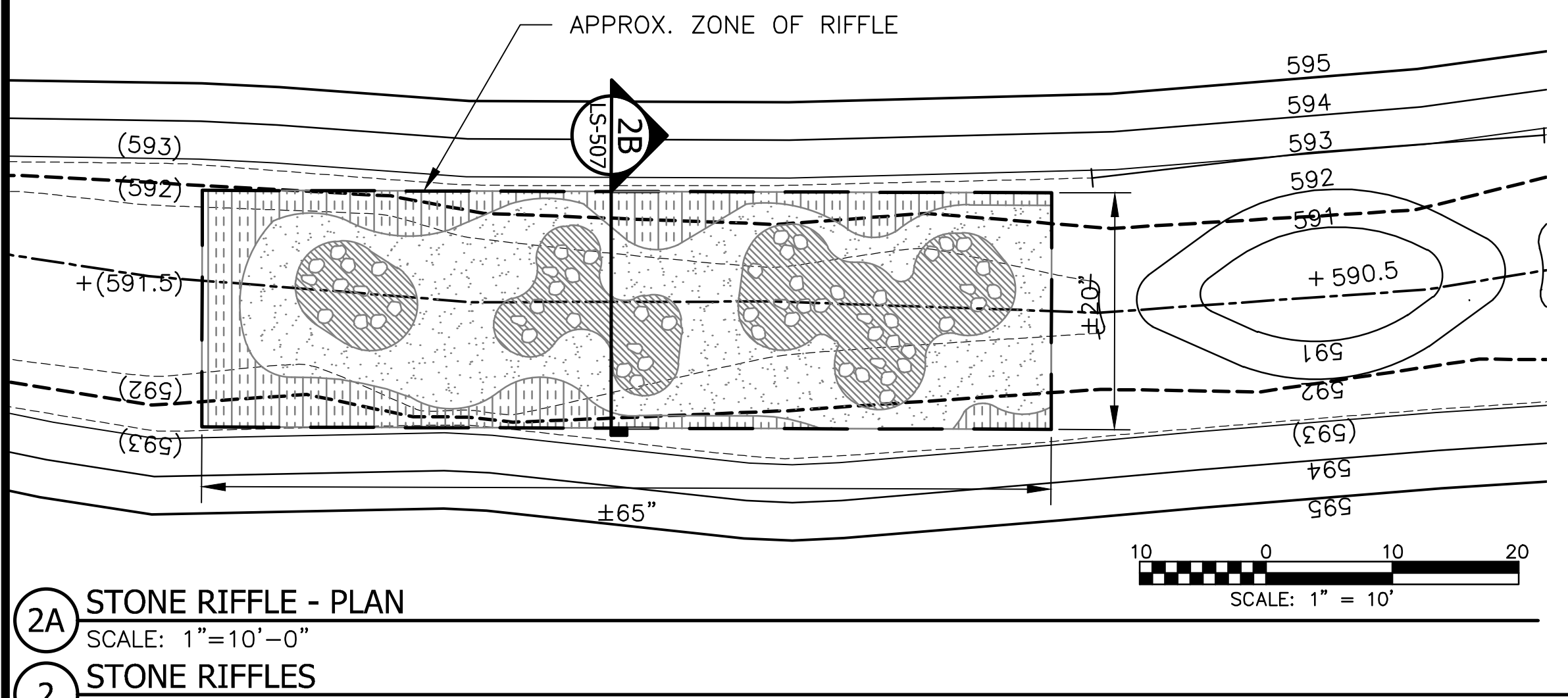
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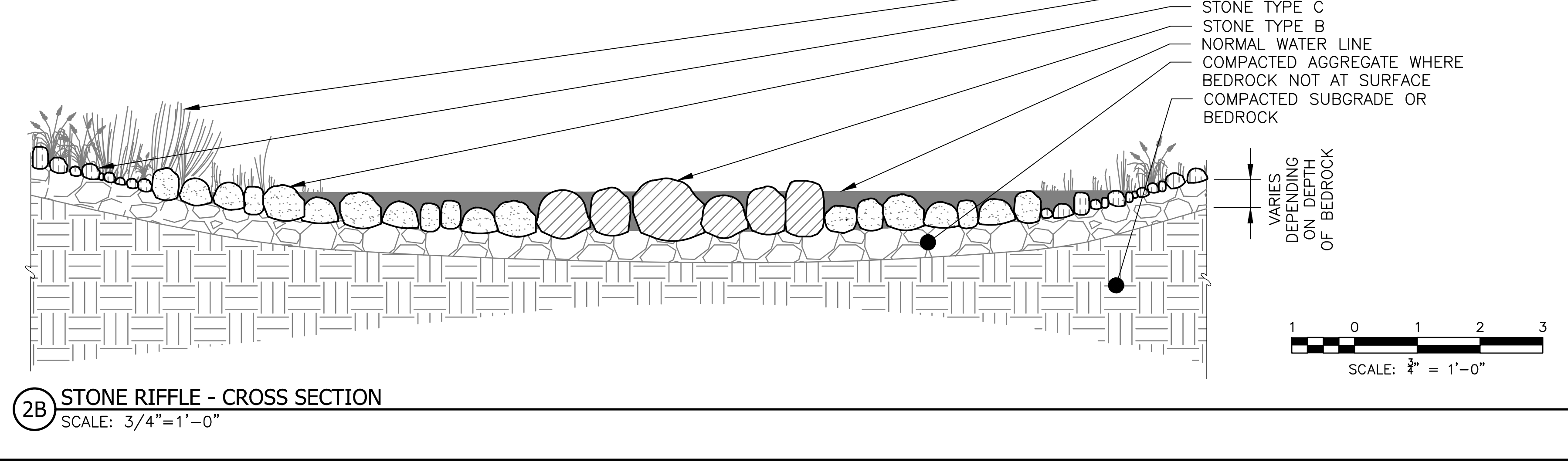
1A STONE RIFFLE - PLAN
SCALE: 1"=10'-0"
1 STONE RIFFLES



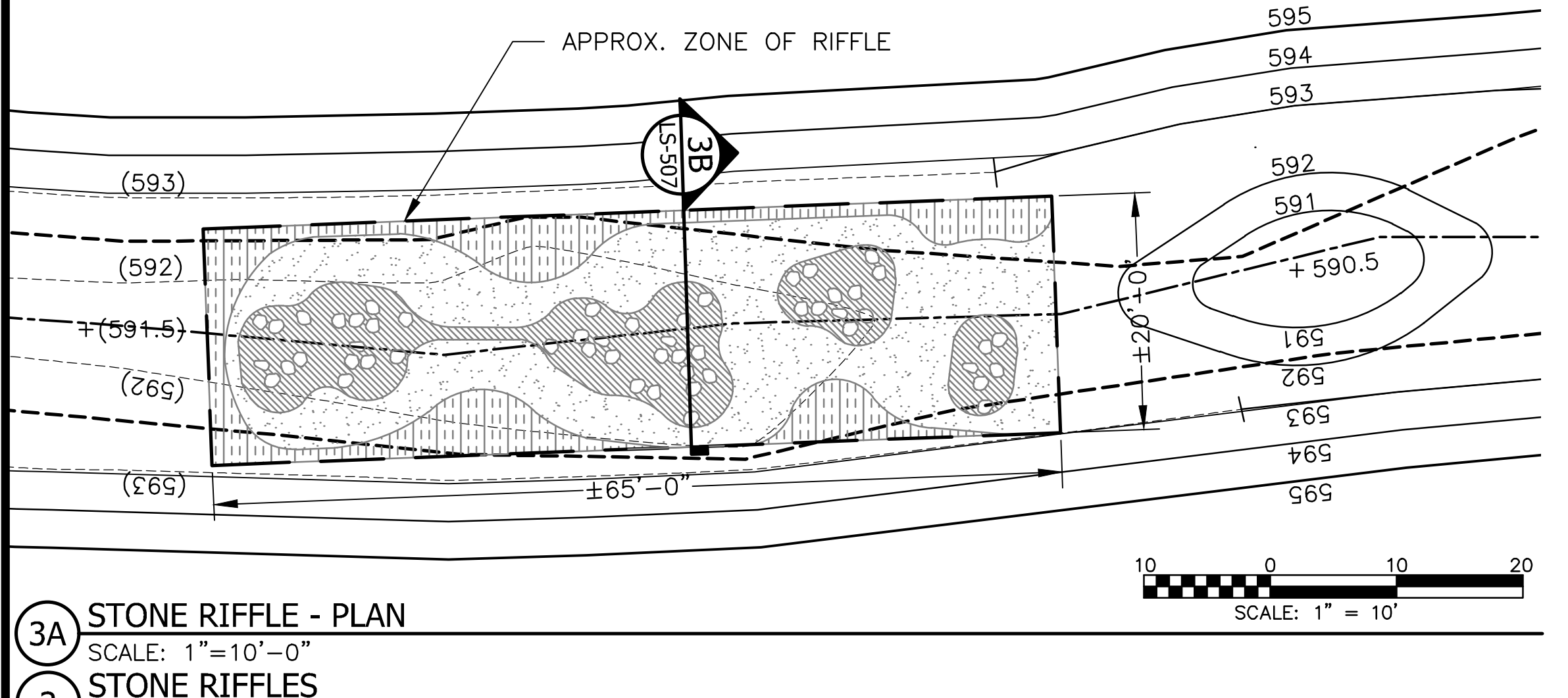
1B STONE RIFFLE - CROSS SECTION
SCALE: 3/4"=1'-0"



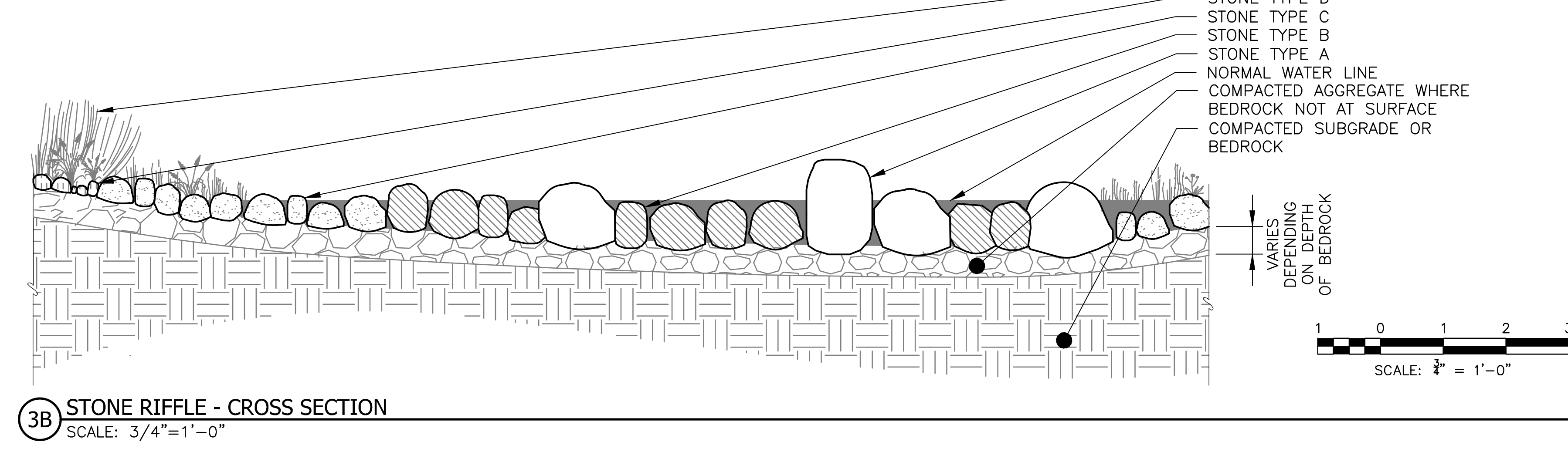
2A STONE RIFFLE - PLAN
SCALE: 1"=10'-0"
2 STONE RIFFLES



2B STONE RIFFLE - CROSS SECTION
SCALE: 3/4"=1'-0"



3A STONE RIFFLE - PLAN
SCALE: 1"=10'-0"
3 STONE RIFFLES



3B STONE RIFFLE - CROSS SECTION
SCALE: 3/4"=1'-0"

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.
 - BOULDER TYPE A
 - BOULDER TYPE B
 - BOULDER TYPE C
 - BOULDER TYPE D

Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

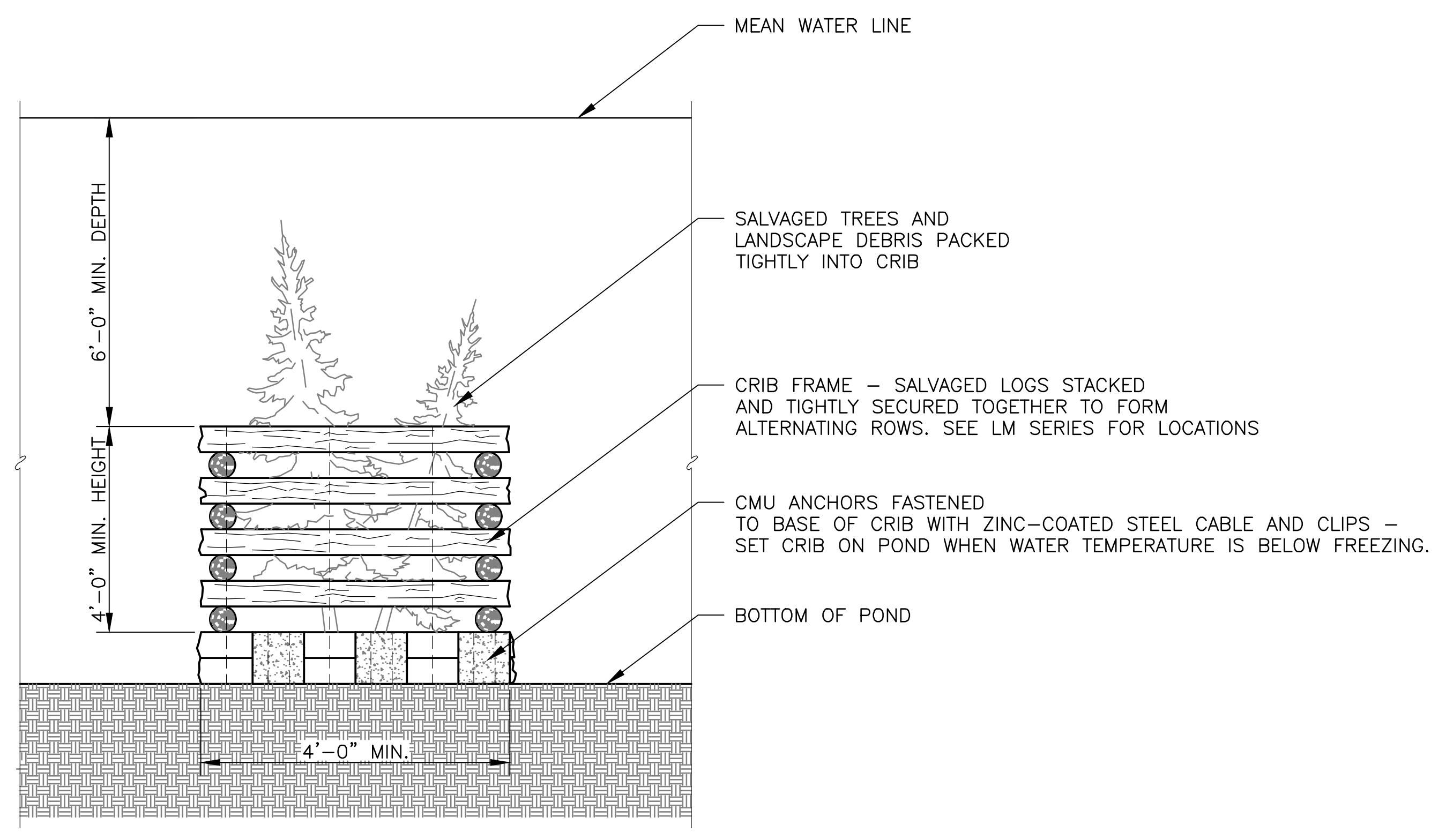
DESIGNED BY: LH
DRAWN BY: LH
CHECKED BY: LH
REVIEWED BY: LH
DATE: FEB 2024
SCALE: AS SHOWN

DONOHUE ACCURATE ENGINEERS INC. OMAHA NE

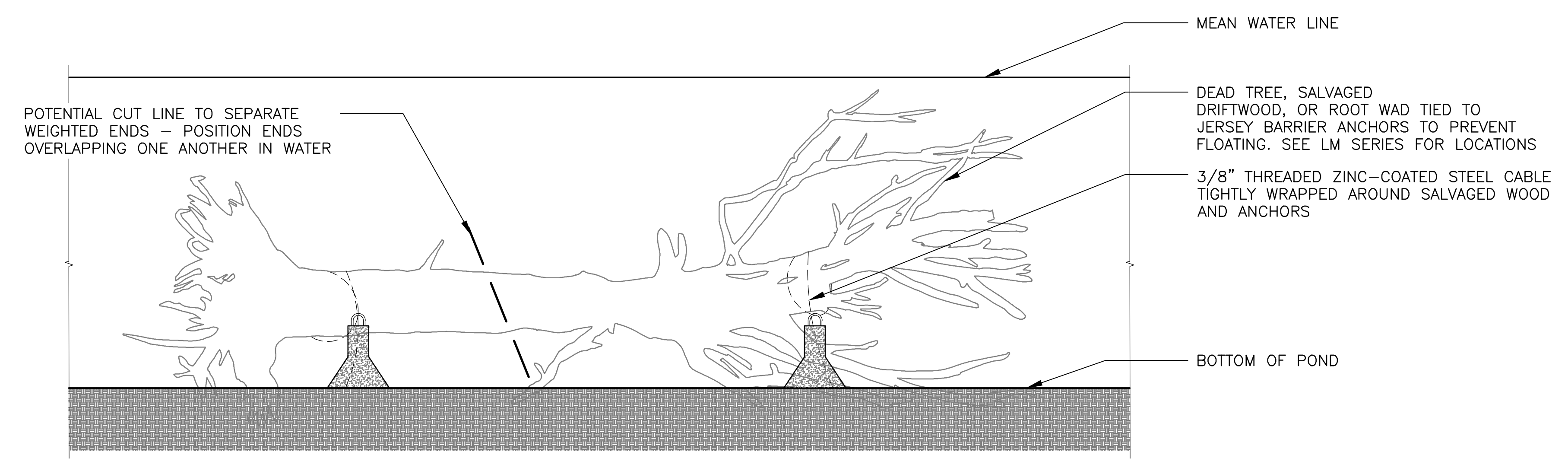
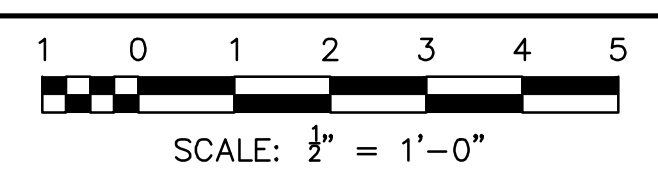
LIVING HABITATS

CONTRACT 14-253-5F
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, CSA
LITTLE CALUMET RIVER WATERSHED
STONE RIFFLE DETAILS

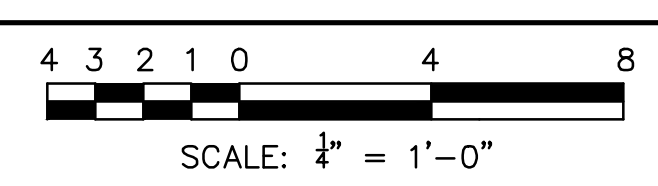
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 PLOT DATE: 2/7/2024 2:46 PM PLOTTED BY: HANNAH CUSICK



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**

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
FISH HABITAT DETAILS

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

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 CONSULTING ENGINEERS

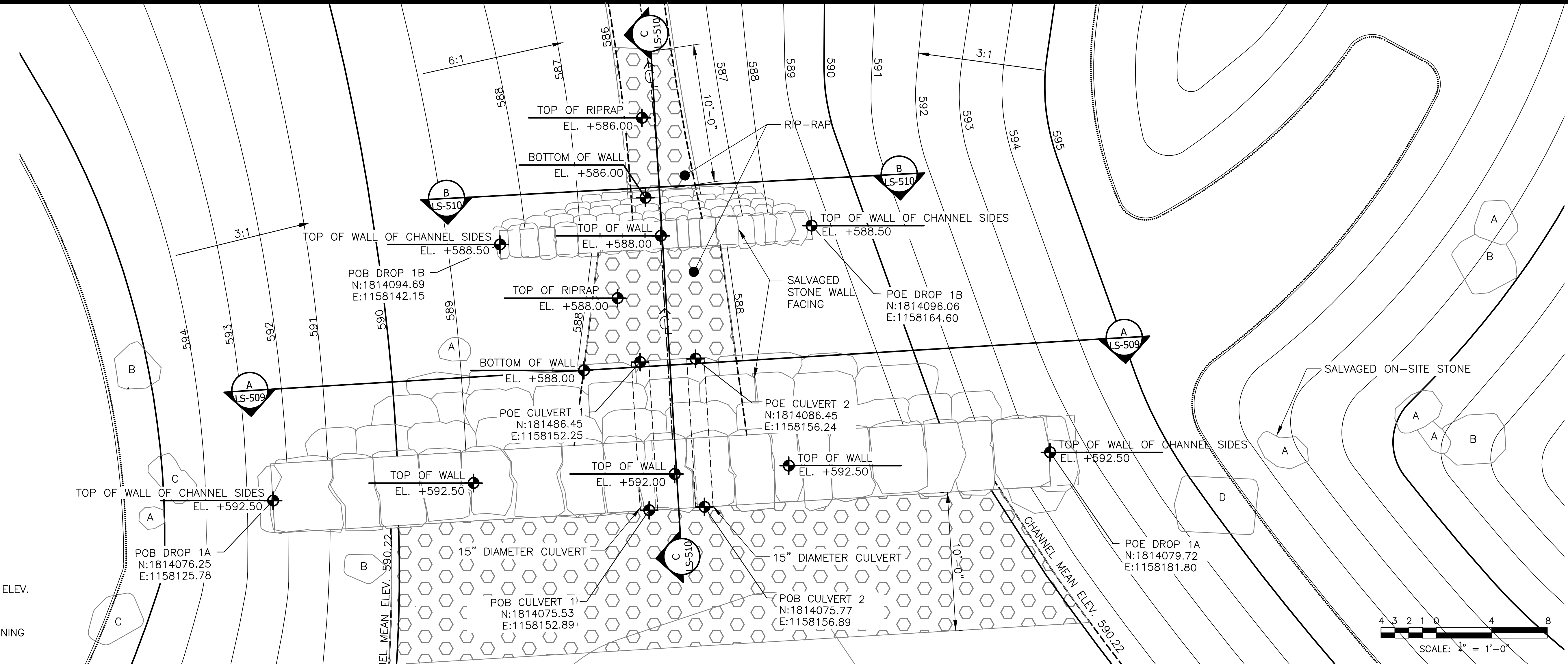
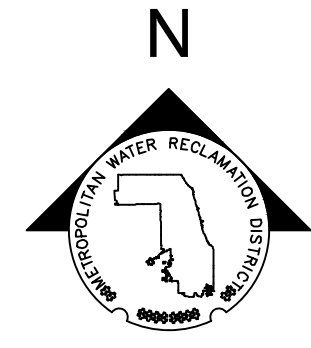
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Rev.	Description	Appr.	Date

Sheet Number:
LS-508

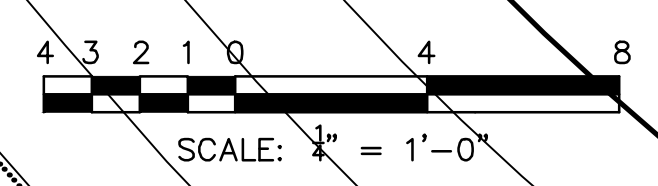
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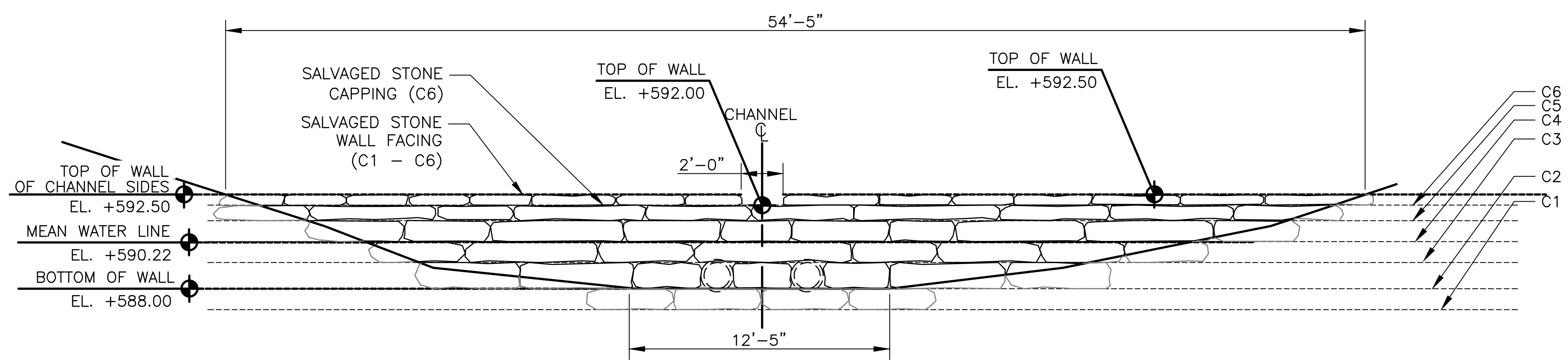


- LEGEND:**
- CHANNEL MEAN ELEV.
 - RIP RAP
 - POB POINT OF BEGINNING
 - POE POINT OF END

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



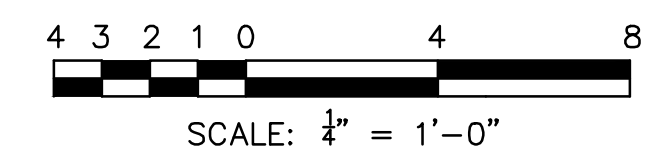
PLAN



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

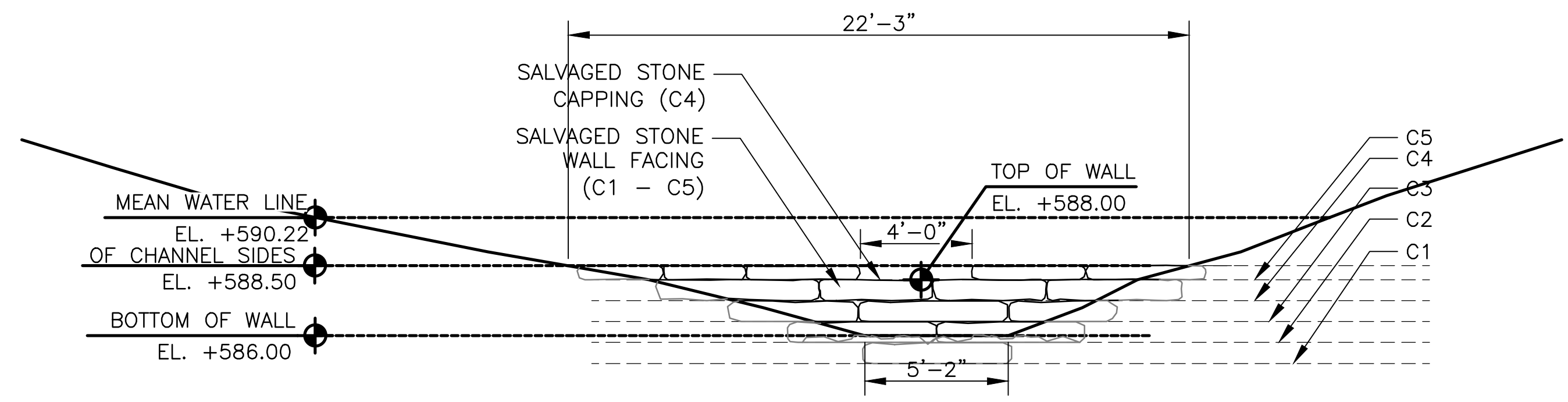
Rev.	Description	Appr.	Date

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

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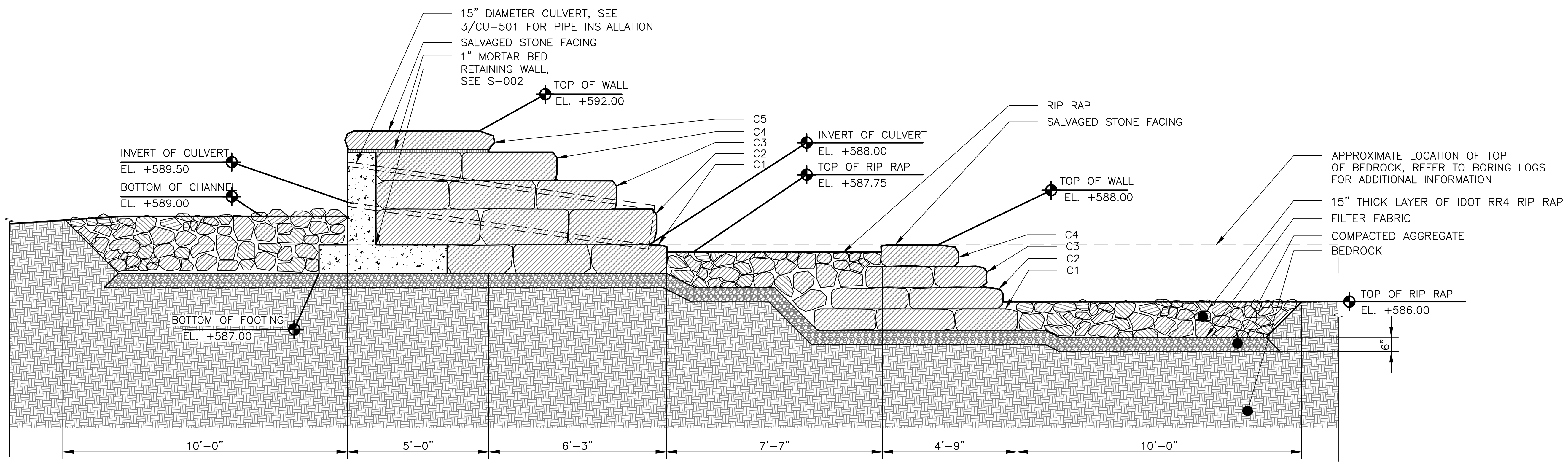
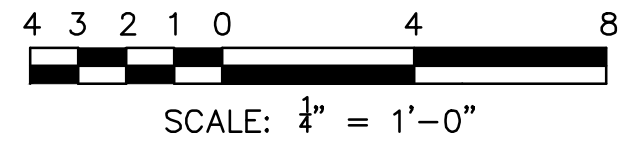
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 O'Brien & Associates, Inc.
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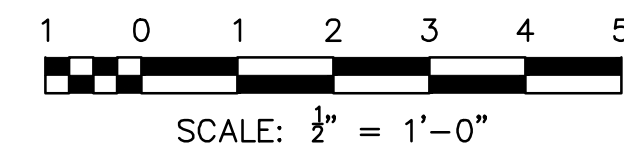


DROP #1 - COURSE SCHEDULE OF ELEVATION B - B				
COURSE NAME	COURSE LENGTH	COURSE DEPTH	COURSE THICKNESS	NOTES
COURSE 1 (C1)	4'-0" TO 6'-0"	2'-0" TO 4'-0"	0'-9"	MORTAR SET
COURSE 2 (C2)	4'-0" TO 6'-0"	2'-0" TO 4'-0"	0'-9"	MORTAR SET
COURSE 3 (C3)	4'-0" TO 6'-0"	2'-0" TO 4'-0"	0'-9"	MORTAR SET
COURSE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

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



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



Rev.	Description	Appr.	Date

**METROPOLITAN WATER RECLAMATION DISTRICT
 OF GREATER CHICAGO**

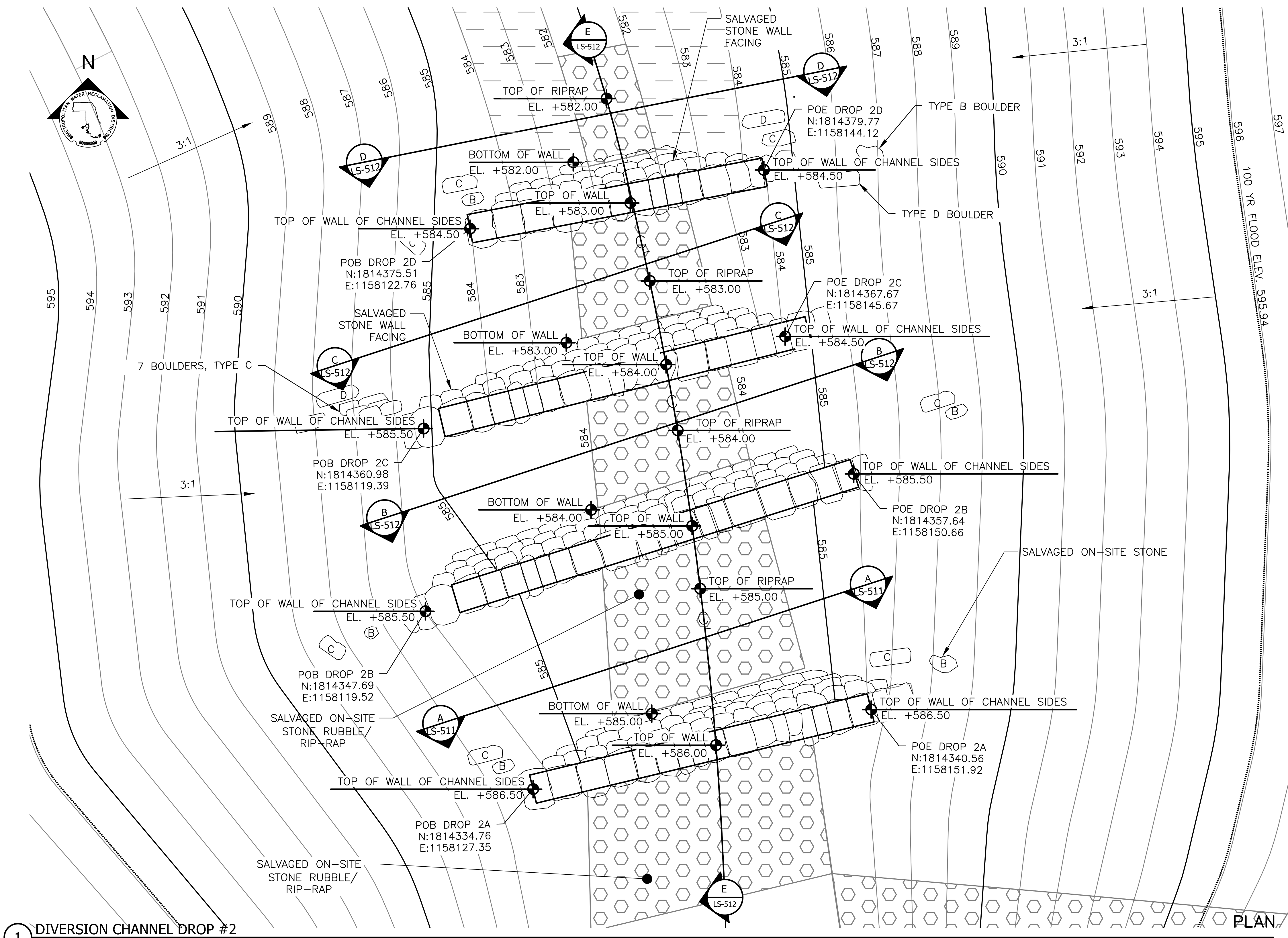
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CHECKED BY: LH
DRAWN BY: LH
REVIEWED BY: LH
DATE: FEB 2024
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LIVING HABITATS

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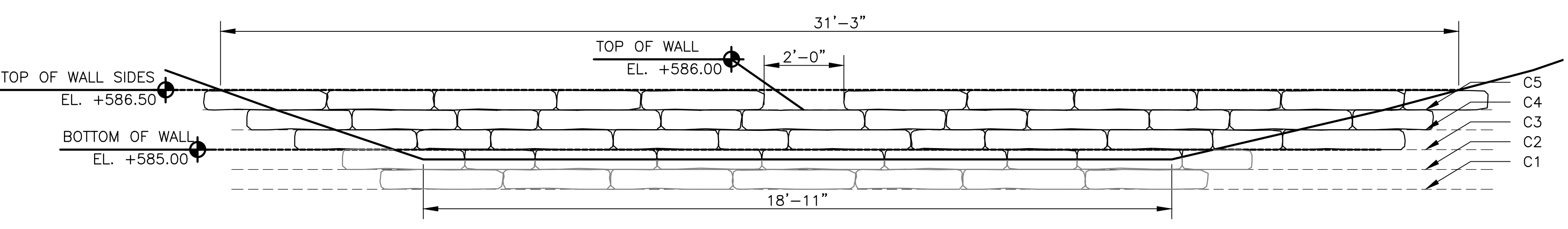
CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
STORMWATER DETAILS (DROP 1)

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 PLOT DATE: 2/7/2024 2:46 PM PLOTTED BY: HANNAH CUSICK



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

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



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

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

DISTRIBUTED STONE BOULDER SCHEDULE					
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

CHANNEL DROP #2 - LAYOUT COORDINATES - VERIFY FIELD PLACEMENT		
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

DROP #2 - 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"	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

METROPOLITAN WATER RECLAMATION DISTRICT
 OF GREATER CHICAGO

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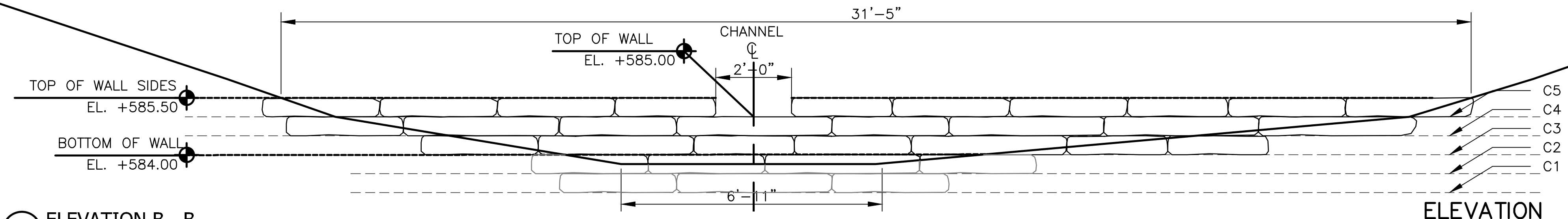
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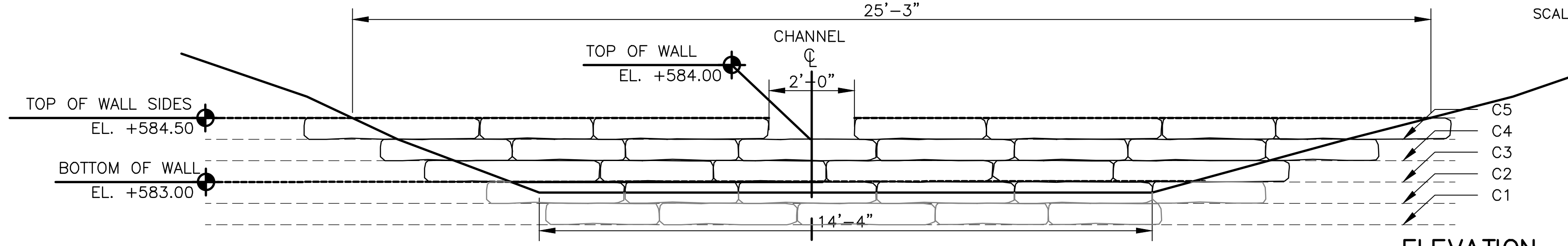
LIVING HABITATS

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

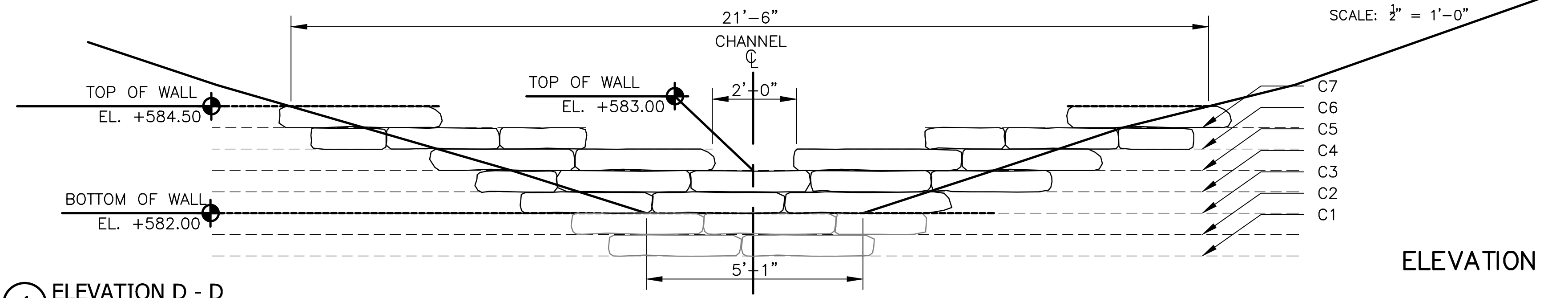
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2 ELEVATION B - B
 SCALE: 1"=2'-0"



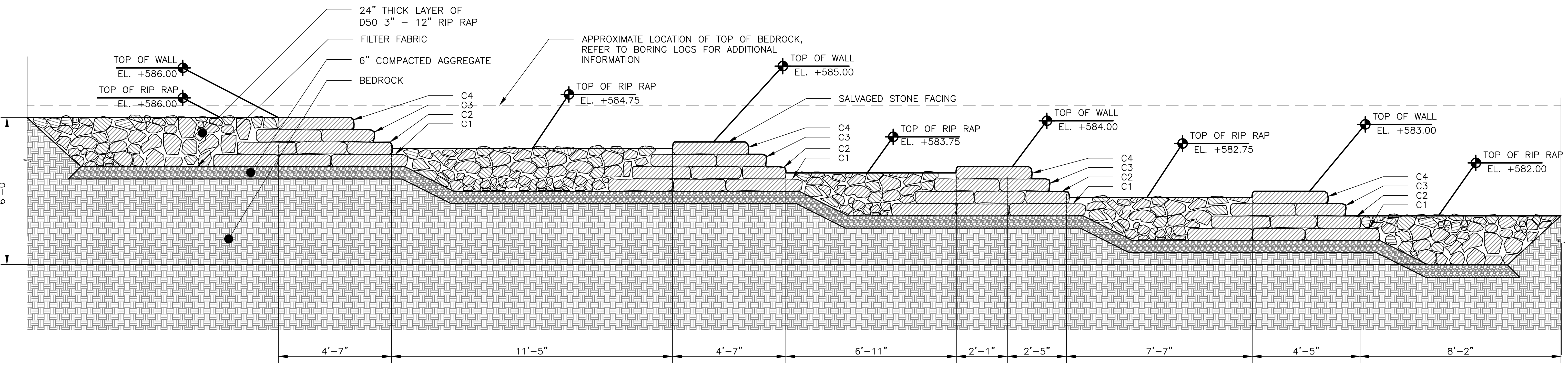
3 ELEVATION C - C
 SCALE: 1"=2'-0"



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

METROPOLITAN WATER RECLAMATION DISTRICT
 OF GREATER CHICAGO

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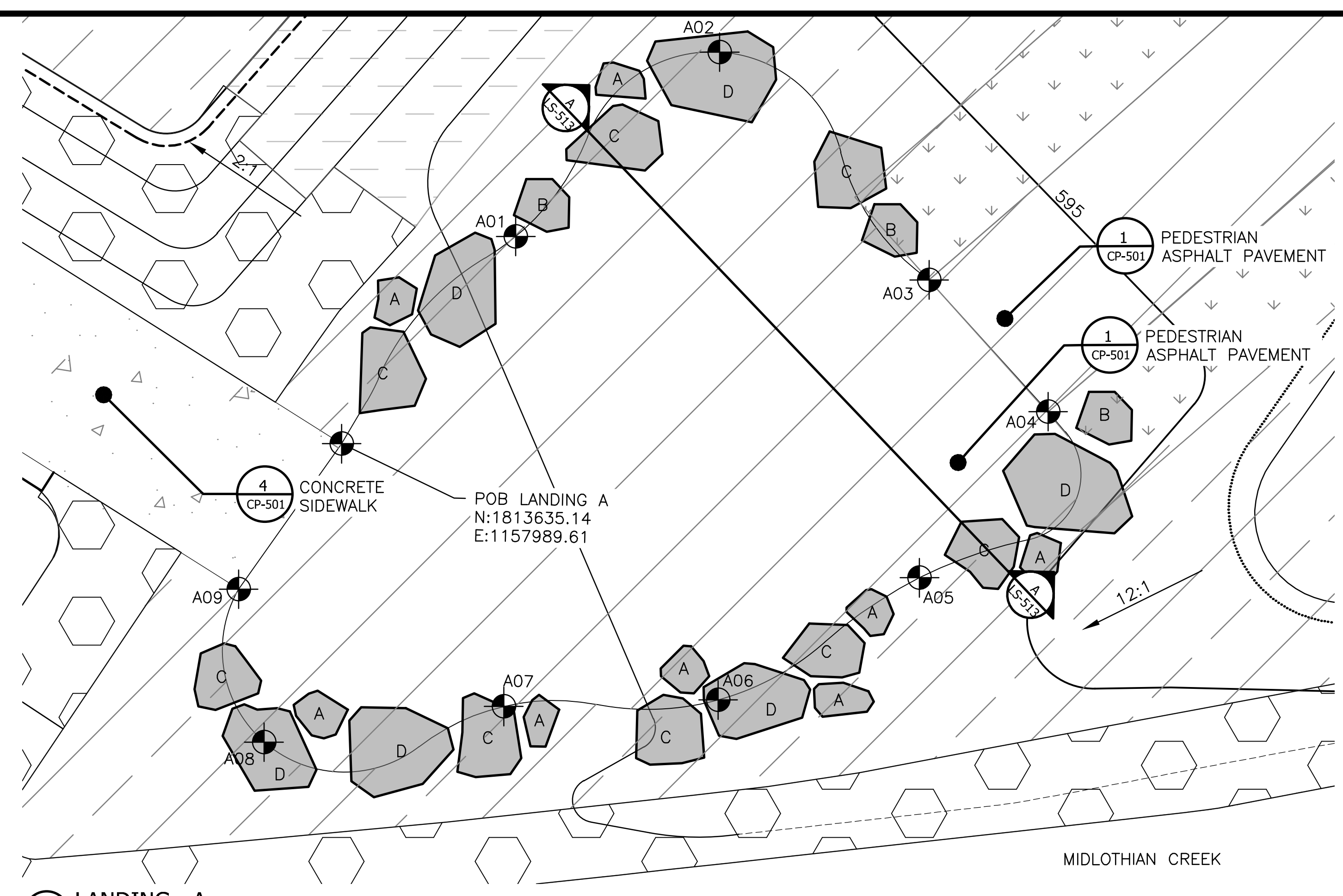
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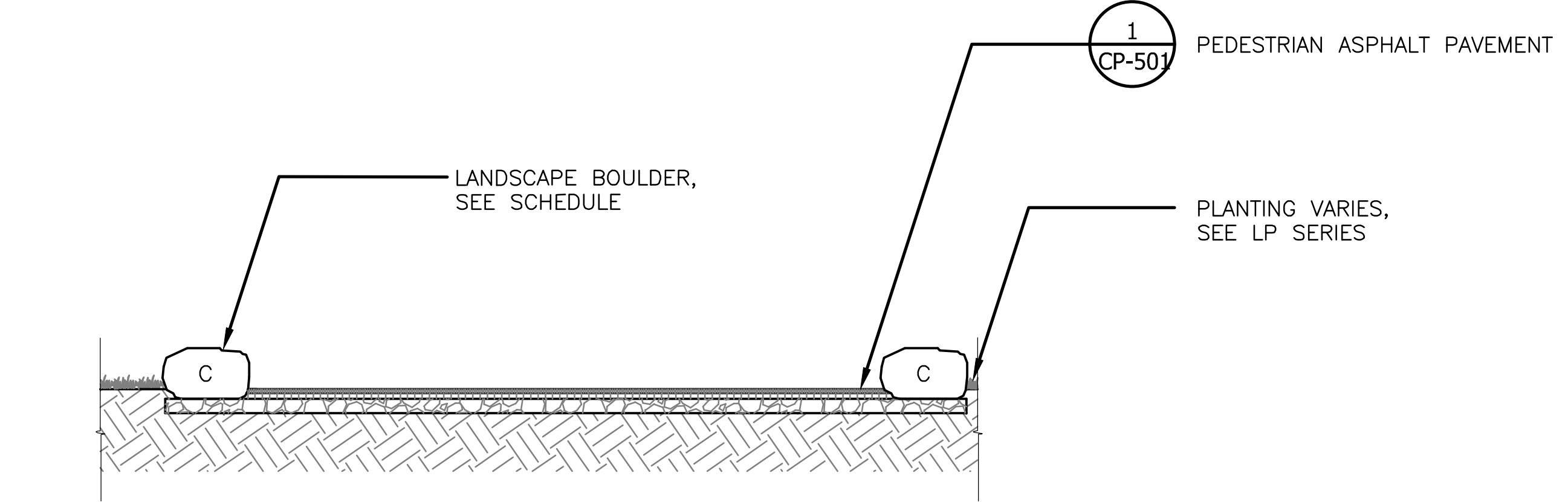
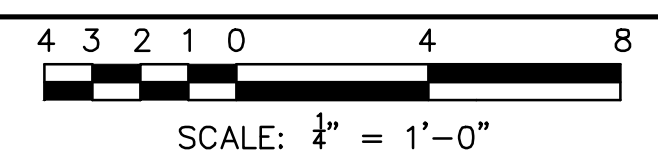
LIVING HABITATS

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

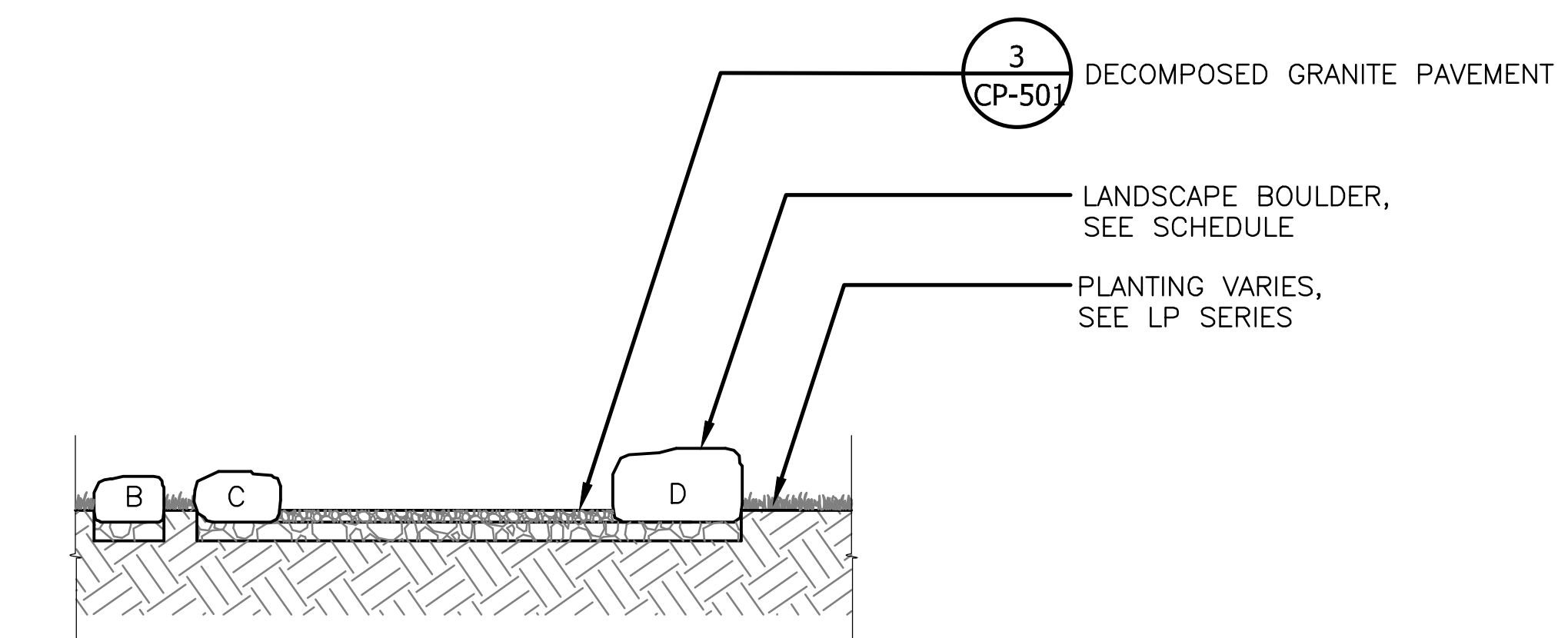
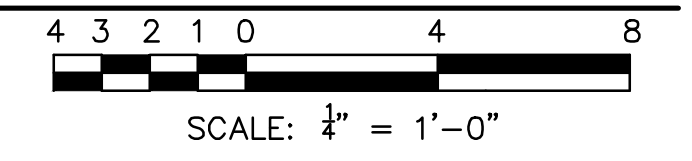
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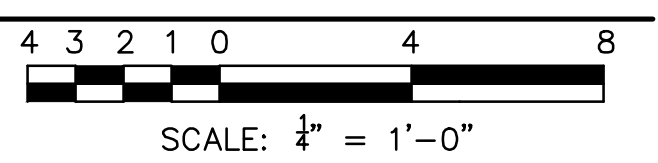
1 LANDING - A
 SCALE: 1"=4'-0"



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



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



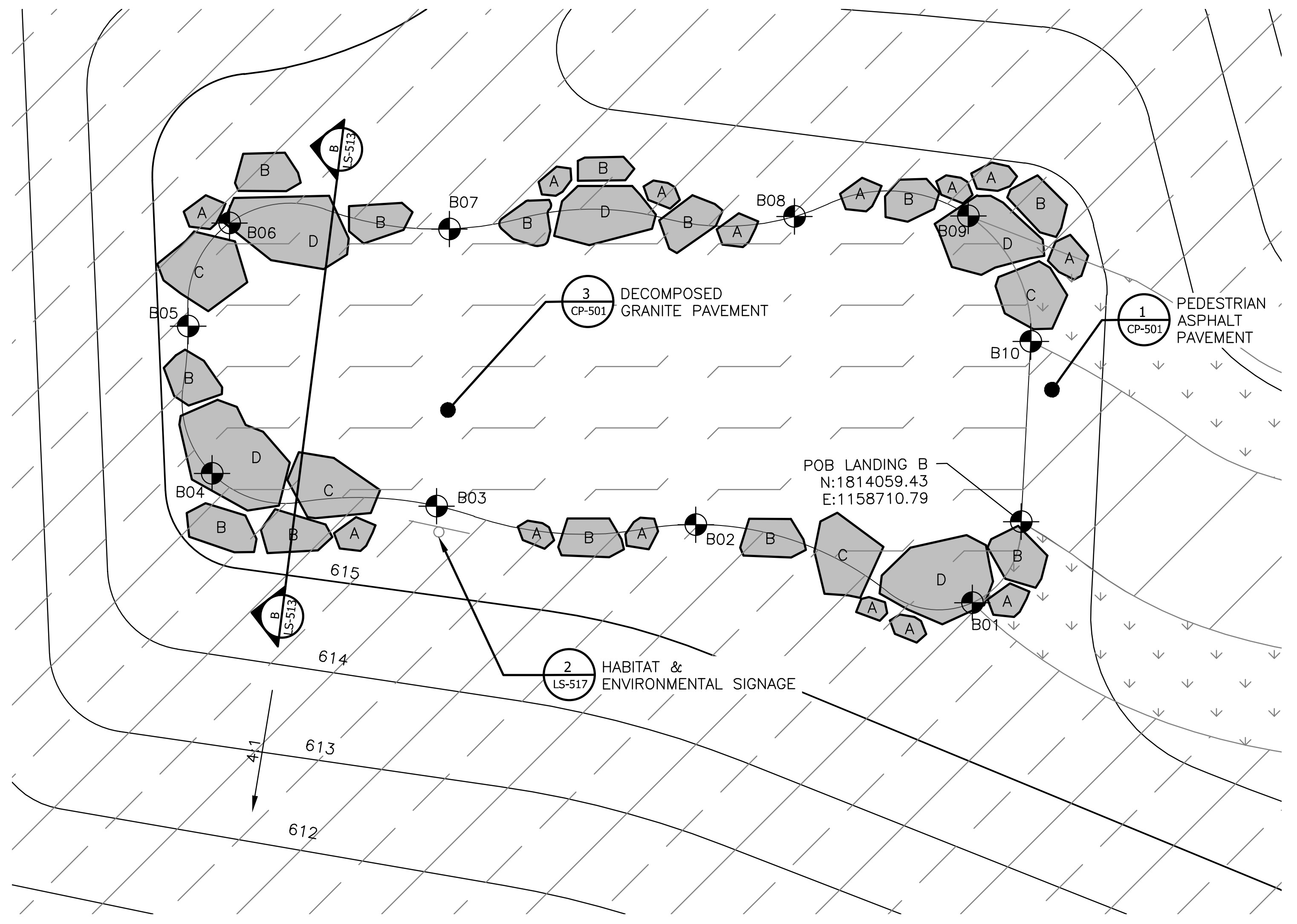
LANDING A - LAYOUT COORDINATES - VERIFY FIELD PLACEMENT

CORDINATE	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

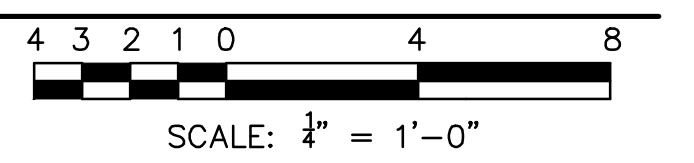
LANDING B - LAYOUT COORDINATES - VERIFY FIELD PLACEMENT

CORDINATE	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



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

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
LANDING DETAILS - A & B

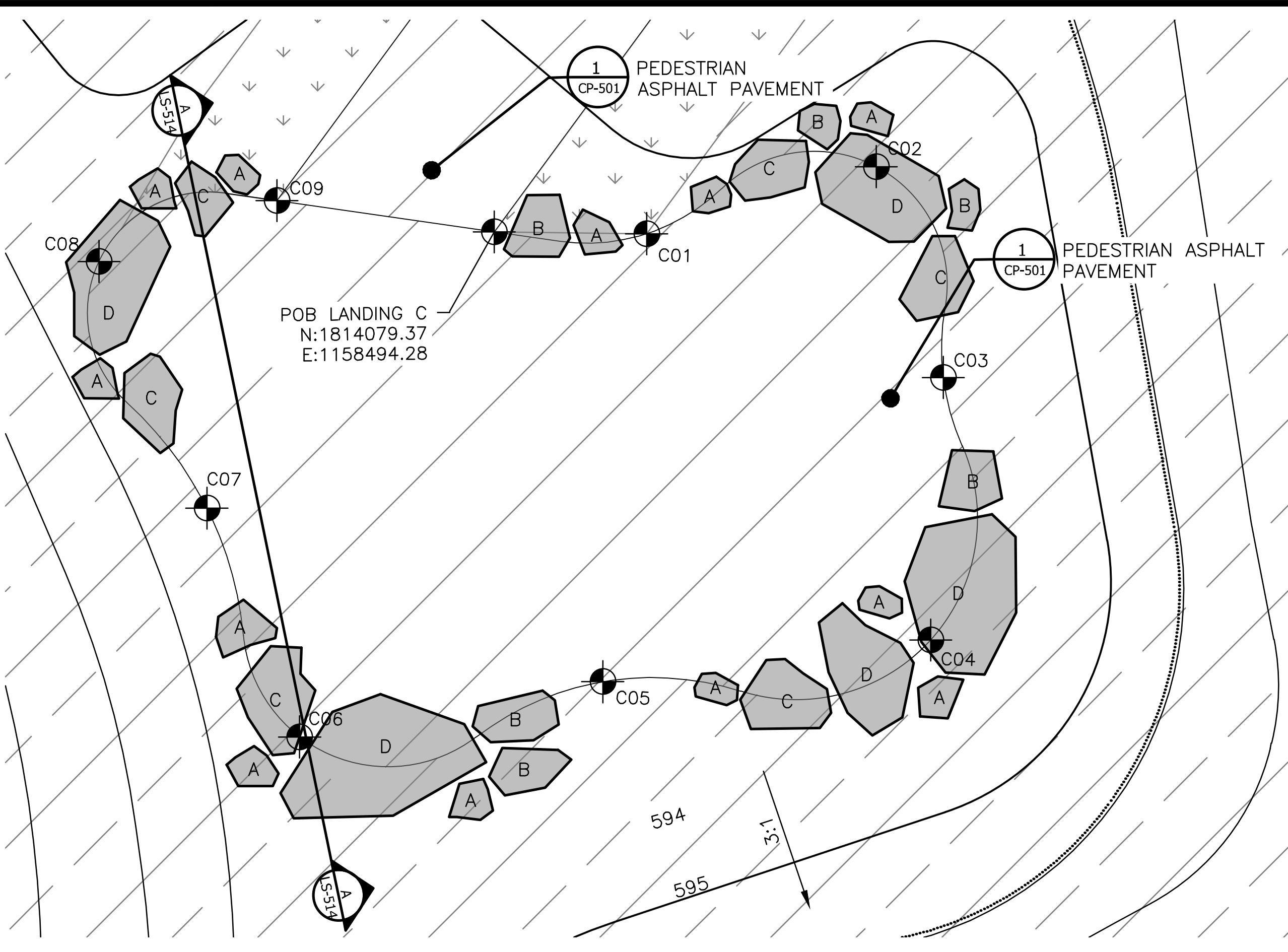
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Sheet Number:
LS-513
 Page Number: 139

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

LANDING C - LAYOUT COORDINATES - VERIFY FIELD PLACEMENT

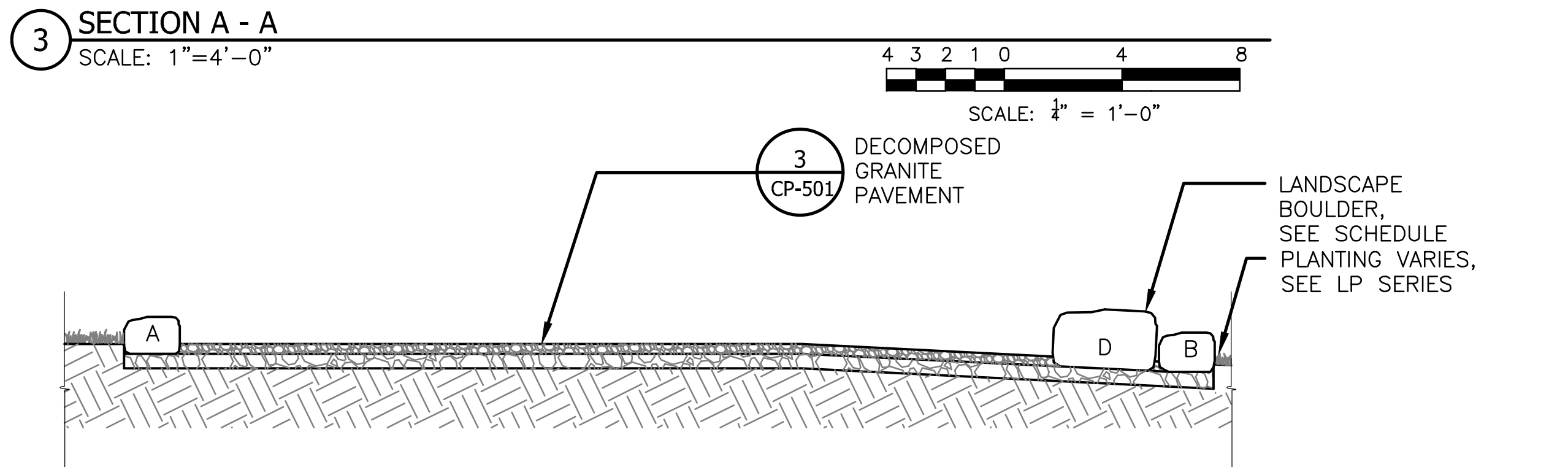
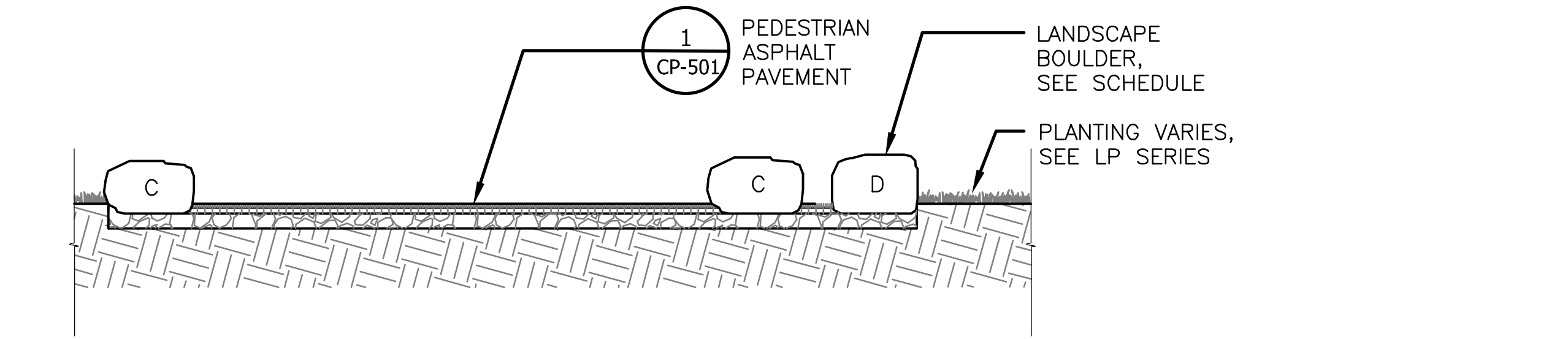
CORDINATE	NORTHING	EASTING
POB LANDING C	1814079.44	1158494.28
C01	1814079.37	1158500.58
C02	1814082.14	1158510.08
C03	1814073.42	1158512.85
C04	1814062.57	1158512.33
C05	1814060.84	1158498.77
C06	1814058.56	1158486.23
C07	1814068.02	1158482.40
C08	1814078.22	1158477.94
C09	1814080.73	1158485.29

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:

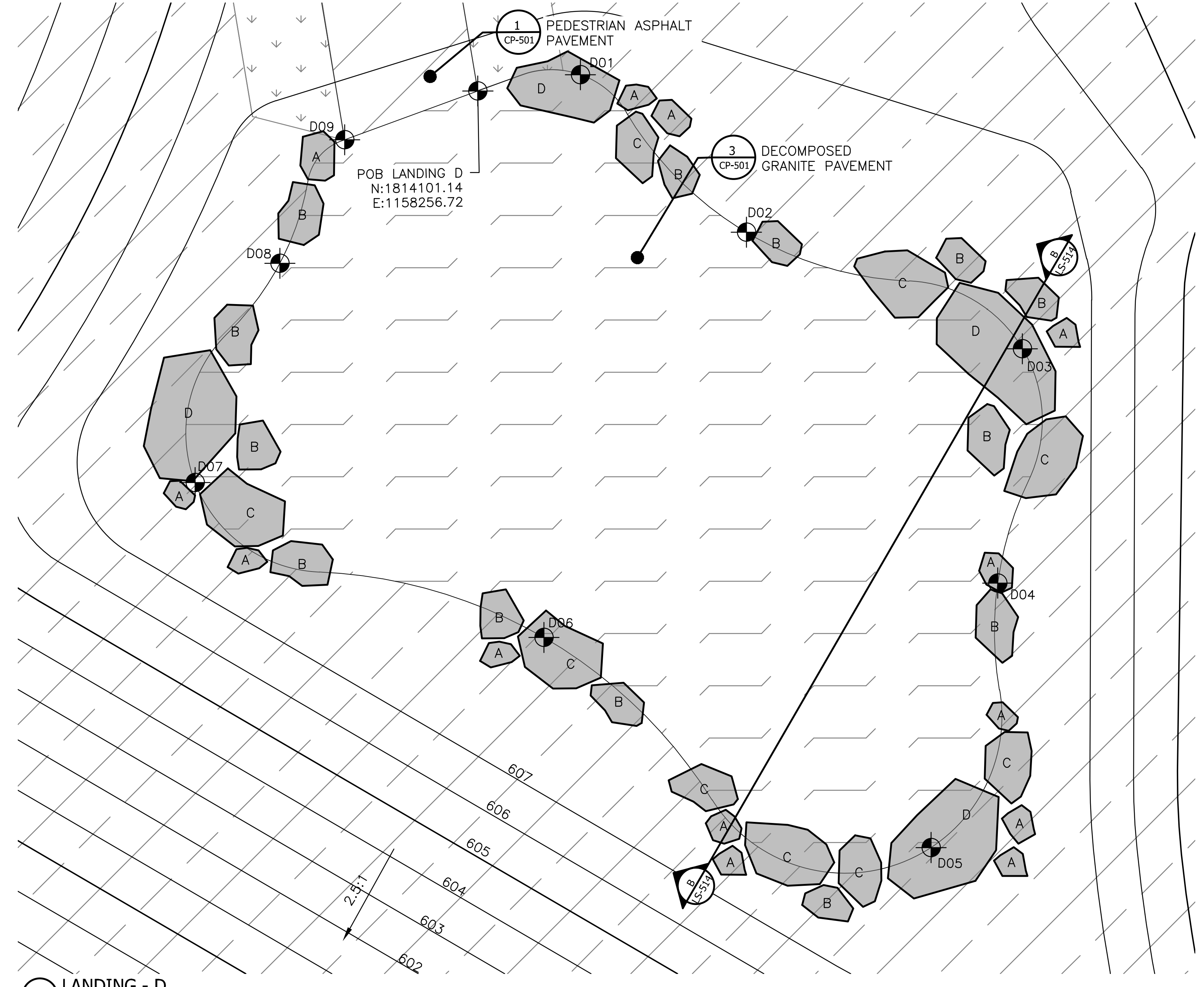
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- [Hatched Box] ASPHALT PAVEMENT - PEDESTRIAN
- [Downward Arrows] MOWN TURF
- [Diagonal Lines] PLANTED AREA, REFERENCE LP-SERIES
- [Cross-hatched Box] DECOMPOSED GRANITE



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



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

Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
LANDING DETAILS - C & D

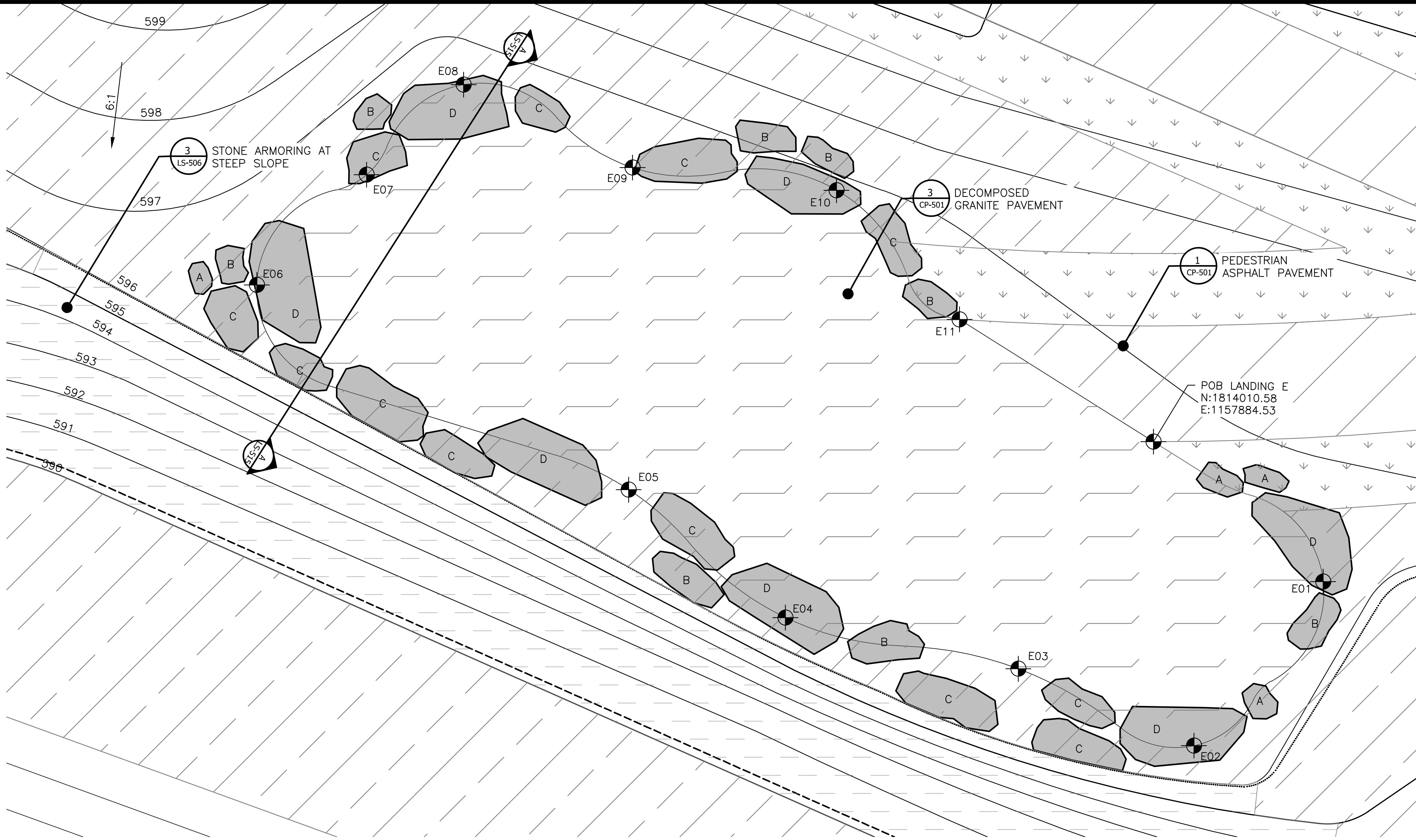
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 Drawn by: LH
 Reviewed by: LH
 Date: FEB 2024
 Scale: AS SHOWN

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LIVING HABITATS

Sheet Number:
LS-514
 Page Number: 140

P:\16-105_Robbins Park - MWRD\04_CAD\14-253-3F\Landscape\Sheets\14-253-BF\LS-515.dwg 1/17/2024 10:06 AM
 PLOT DATE: 2/7/2024 2:47 PM PLOTTED BY: HANNAH CUSICK



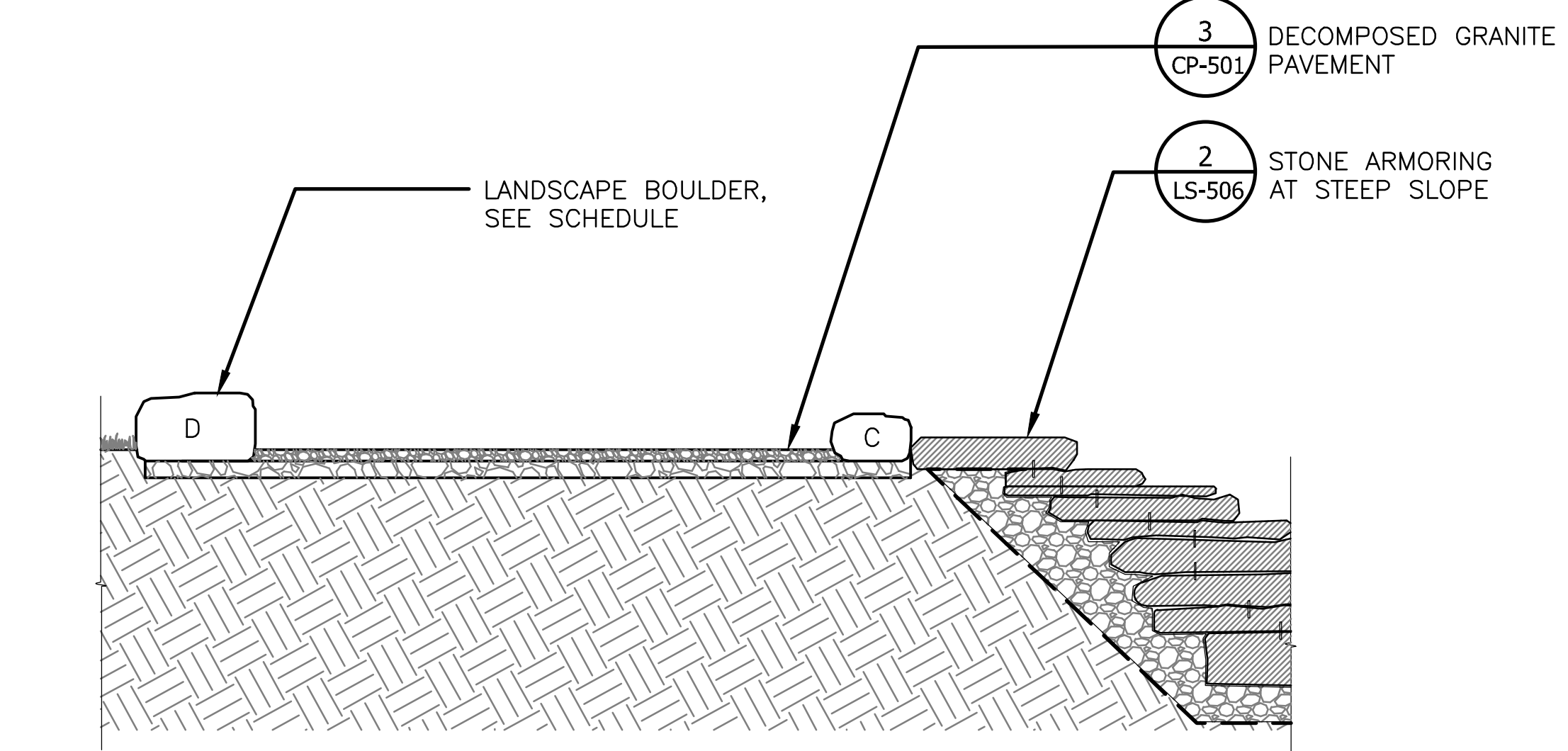
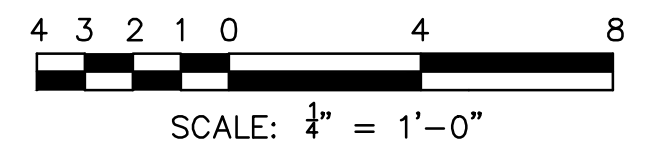
LEGEND:

- 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

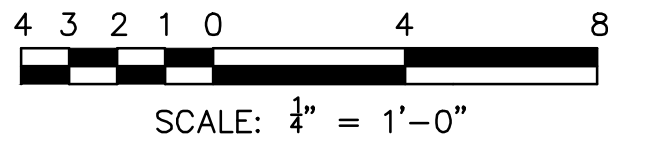
LANDING E - LAYOUT COORDINATES - VERIFY FIELD PLACEMENT

CORDINATE	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

Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

Contract 14-253-5F
 FLOOD CONTROL PROJECT ON MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
LANDING DETAILS - E

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

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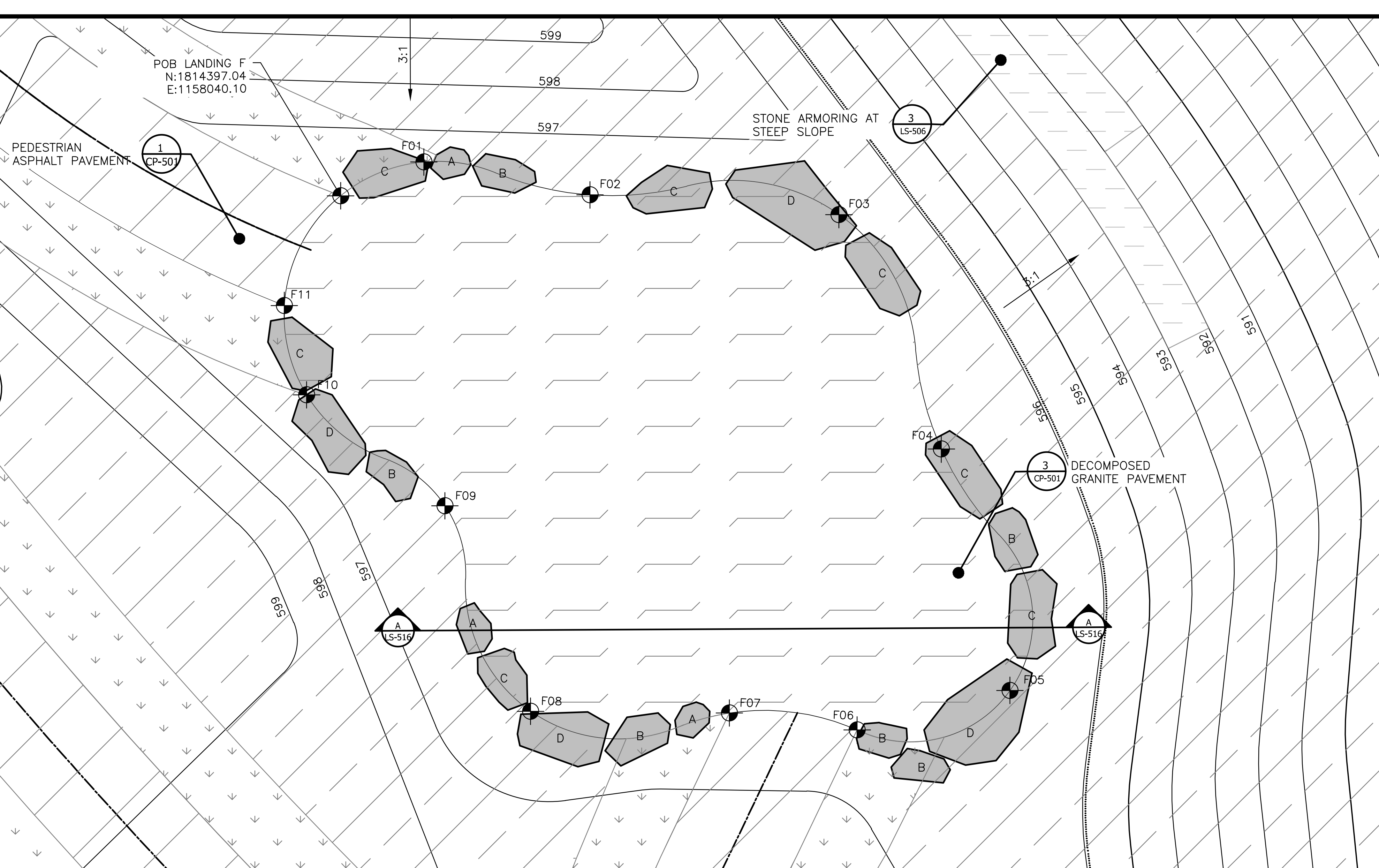
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LIVING HABITATS

Sheet Number:
LS-515

Page Number: 141

P:\16-105_Robbins Park - MWRD\04_CAD\14-253-3F\Landscape\Sheets\14-253-BF\LS-516.dwg 1/17/2024 10:07 AM
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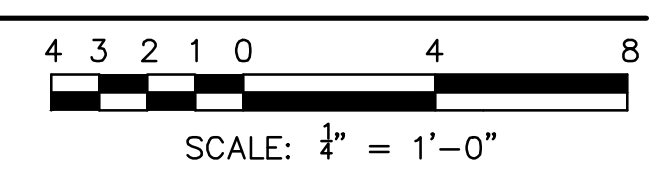
LEGEND:

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

LANDING F - LAYOUT COORDINATES - VERIFY FIELD PLACEMENT

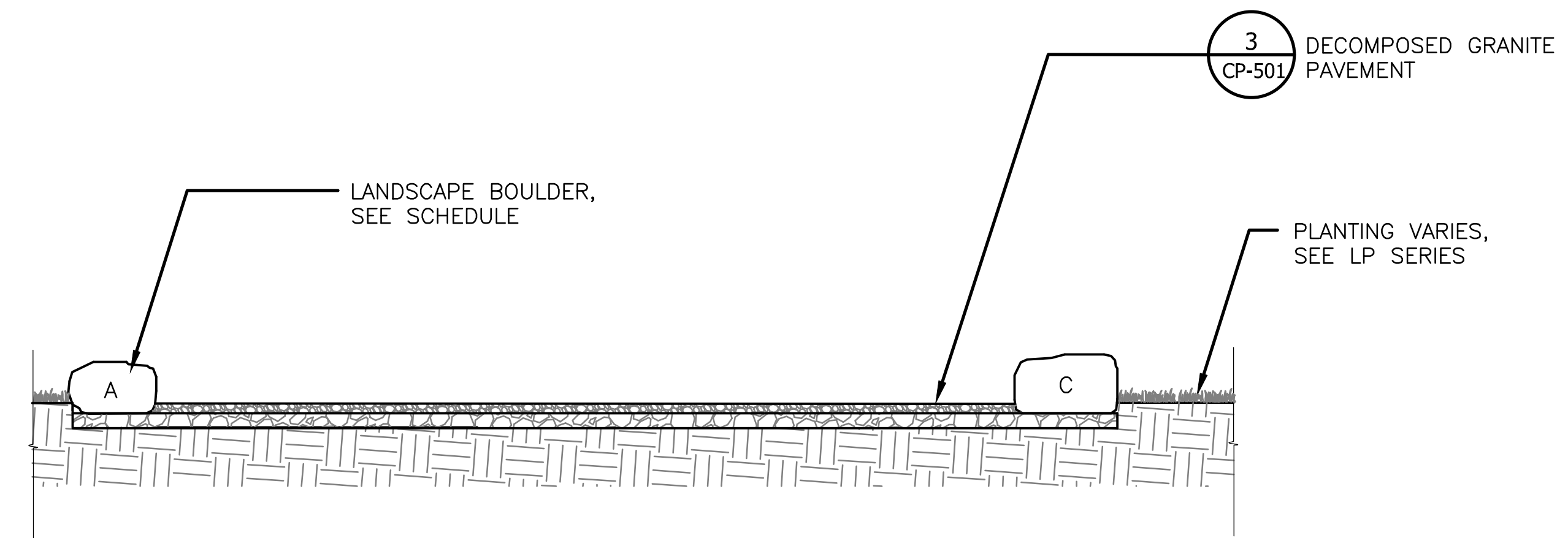
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F02	1814397.10	1158056.37
F03	1814395.81	1158072.61
F04	1814380.51	1158079.29
F05	1814364.77	1158083.77
F06	1814362.19	1158073.80
F07	1814363.30	1158065.46
F08	1814363.41	1158052.49
F09	1814376.81	1158046.90
F10	1814384.05	1158037.88
F11	1814389.88	1158036.42

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

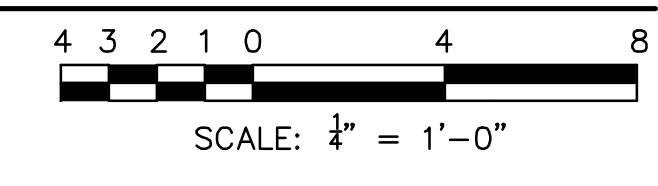


LANDING F - STONE BOULDERS SCHEDULE - VERIFY STONE SELECTION & FIELD PLACEMENT

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

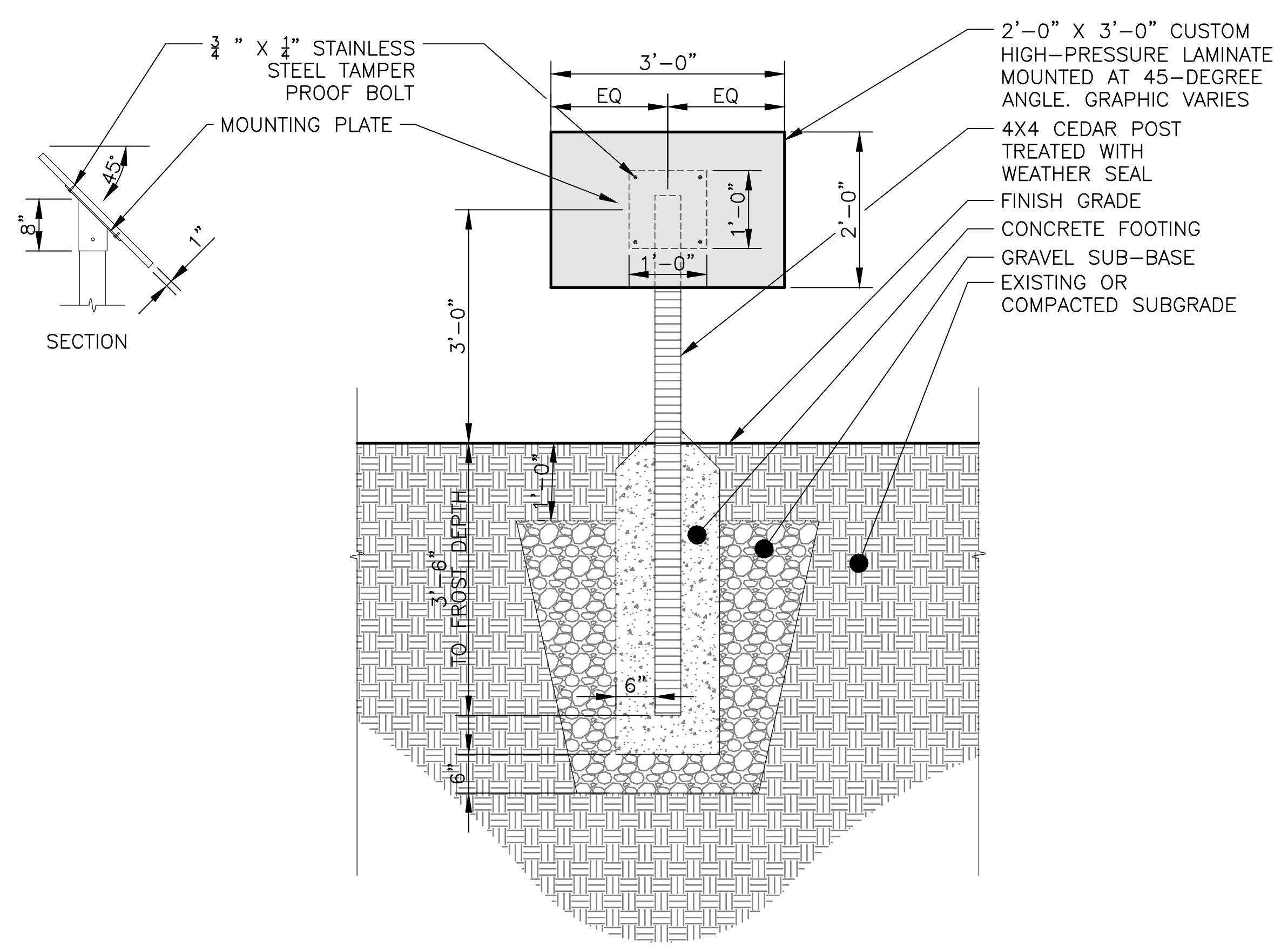
CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON MIDLOTHIAN CREEK IN ROBBINS, CSA LITTLE CALUMET RIVER WATERSHED
 LANDING DETAILS - F

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

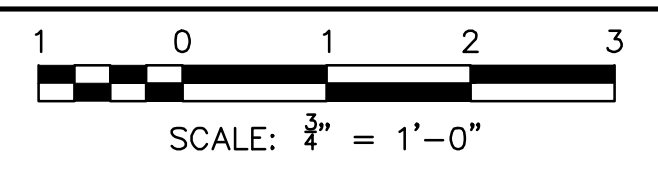
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 ENGINEERS & ASSOCIATES, INC.
 CONSULTING ENGINEERS

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 LIVING HABITATS

Sheet Number:
LS-516
 Page Number: 142



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

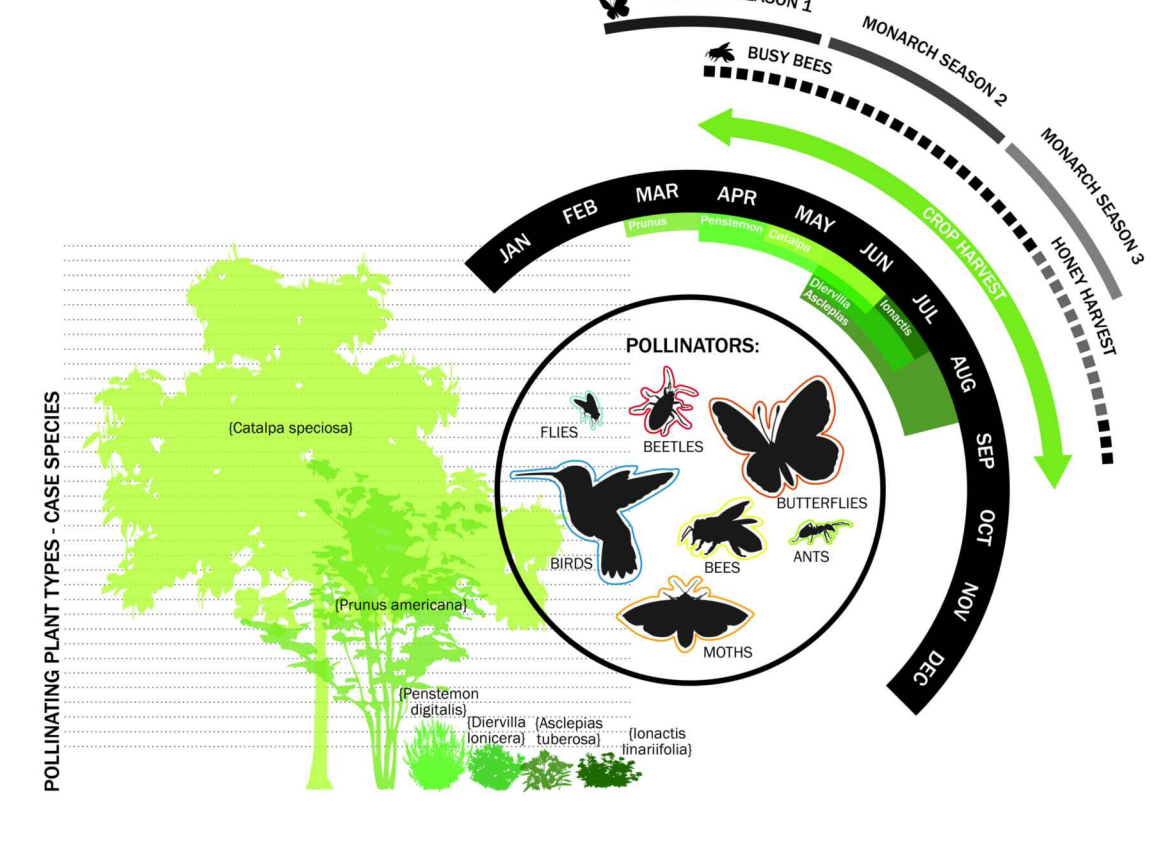


HABITAT FOR POLLINATORS

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

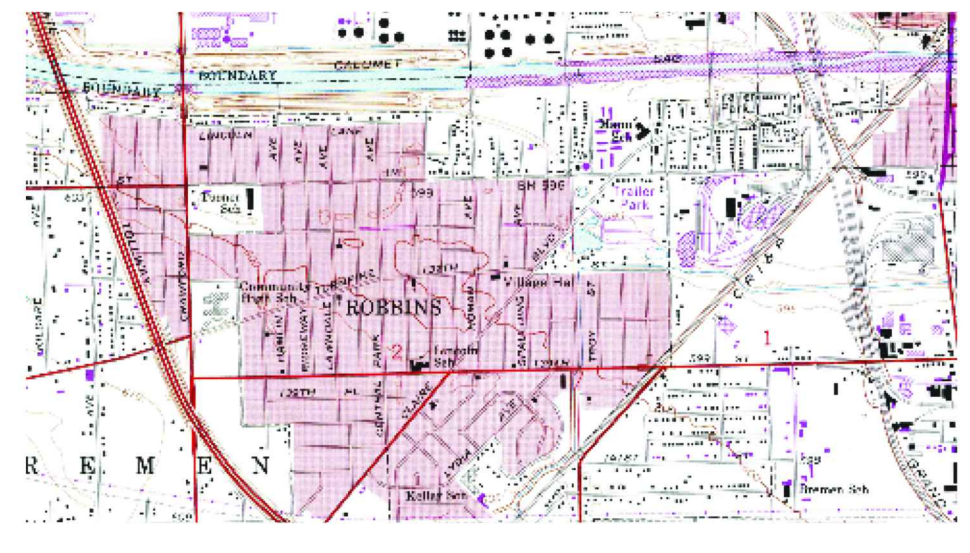
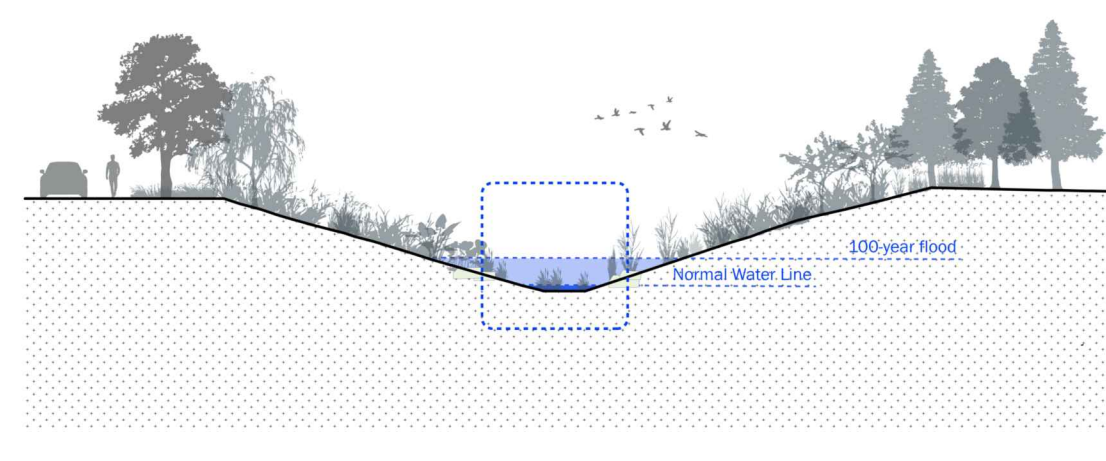
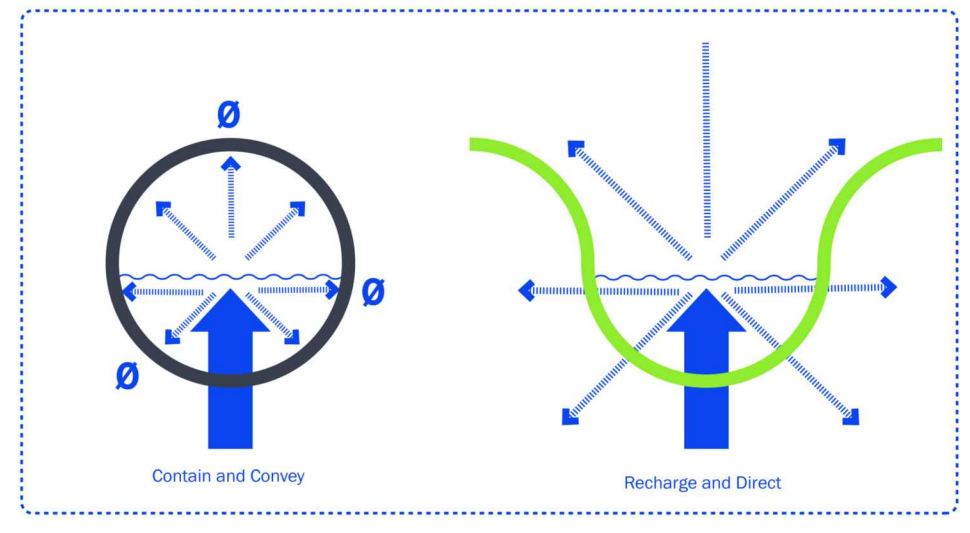
With human development, there are impervious (hard) surfaces created. Impervious surfaces result in an increased amount of stormwater runoff and a greater chance for pollution to enter natural waterways through storm sewer systems.

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



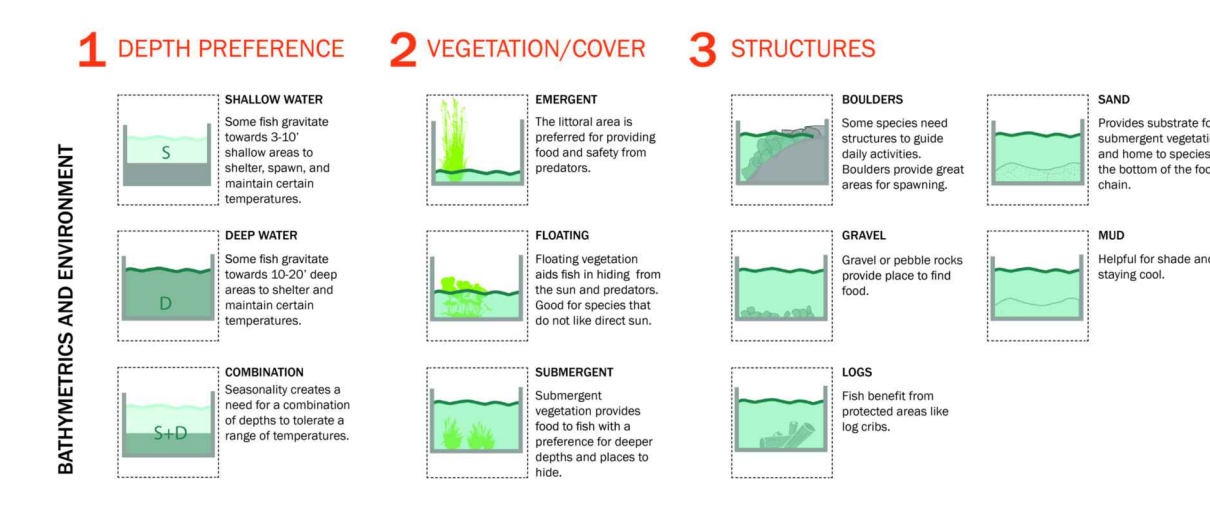
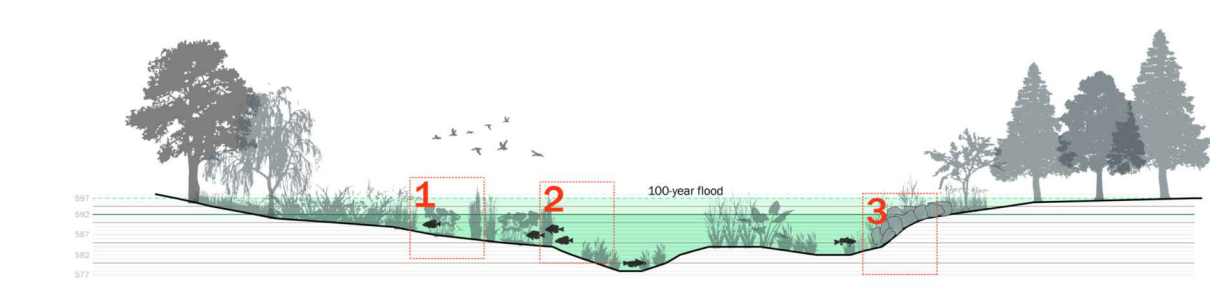
3 RAIN GARDEN & COMMUNITY IMPACT SIGNAGE

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

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

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

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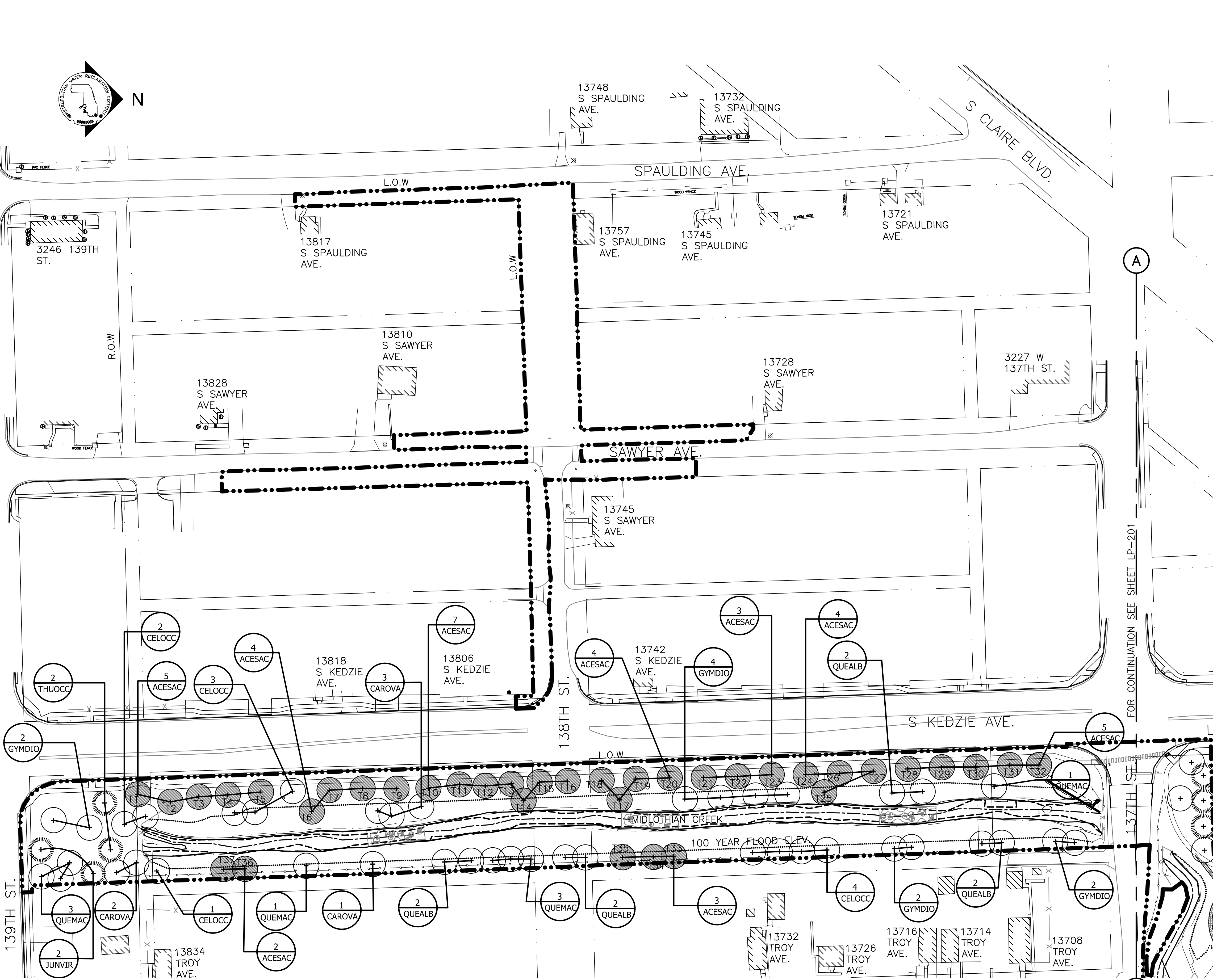
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LIVING HABITATS

CONTRACT 14-253-5F
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, CSA
LITTLE CALUMET RIVER WATERSHED
SIGNAGE DETAILS

P:\16-105-Robbins Park - MWRD\04_CAD\14-253-3F\Landscape\14-253-BF\LP-101.dwg 1/29/2024 10:32 AM
 PLOT DATE: 2/7/2024 2:48 PM PLOTTED BY: HANNAH CUSICK



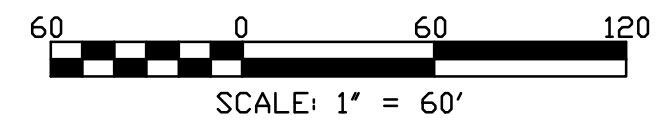
ACRONYM	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	ROOT	WETLAND INDICATOR	VEGETATIVE PHYSIOLOGY	NOTES
ACESAC	37	<i>Acer saccharum</i>	SUGAR MAPLE	3" CAL	B&B	FACU	TREE	TRANSPLANTED TREES
CAROVA	6	<i>Carya ovata</i>	SHAGBARK HICKORY	2" CAL	B&B	FACU	TREE	
CELOCC	10	<i>Celtis occidentalis</i>	HACKBERRY	2" CAL	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							

PLANTING NOTES:

- THE CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING AND NEW UTILITY LINE LOCATIONS PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE ENGINEER.
- 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.
- 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.
- ENGINEER TO VERIFY ALL PLANT LOCATIONS IN FIELD.
- 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".
- 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.
- THE TRUNK FLARE (AT THE BASE OF THE TREE) SHALL BE PROPERLY EXPOSED FOR ALL PLANTINGS.
- 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.
- 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
- 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.
- CONTAINER STOCK PLANTING: PLANT CONTAINER GROWN STOCK THE SAME AS SPECIFIED FOR BALLED AND BURLAP STOCK BUT REMOVE CONTAINERS COMPLETELY.
- OBSTRUCTIONS: IF OBSTRUCTIONS OR OTHER CONDITIONS DETRIMENTAL TO HEALTHY PLANT GROWTH ARE ENCOUNTERED, NOTIFY THE ENGINEER IMMEDIATELY AND REQUEST ADDITIONAL INSTRUCTIONS.
- 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.
- FLOOD ALL PLANTS WITH WATER TWICE WITHIN THE FIRST 24 HOURS AFTER PLANTING.
- 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.
- ALL PLANTS SHALL BE PLUMB VERTICALLY AFTER SETTLING OR AS DIRECTED BY THE ENGINEER.
- 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



Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT
 OF GREATER CHICAGO

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

Reviewed by: LH
 Scale: AS SHOWN

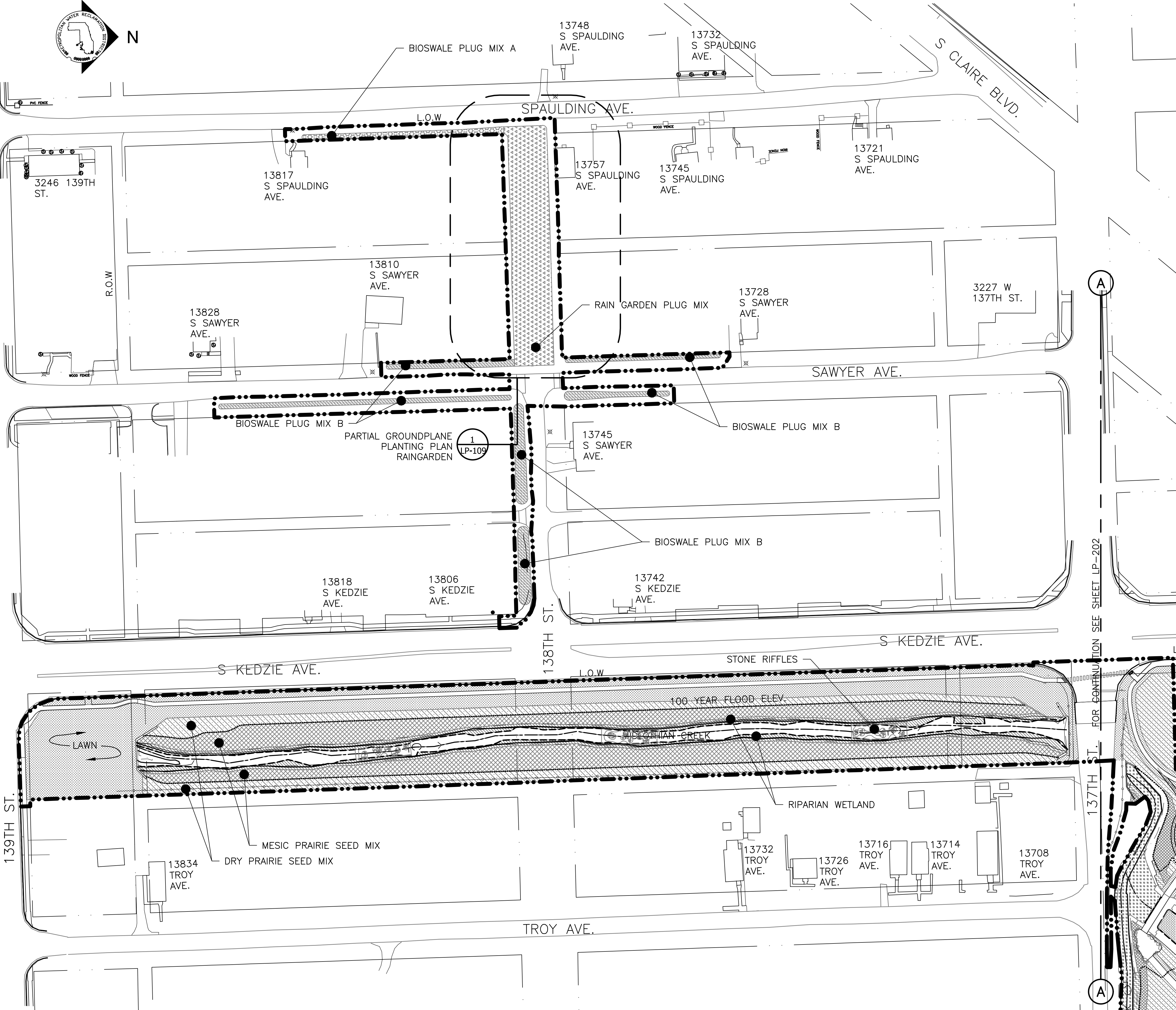
Accurate
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Living Habitats

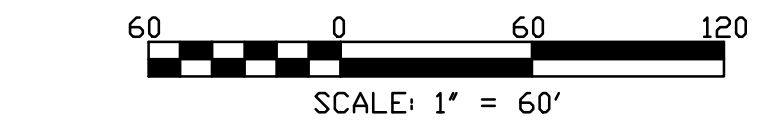
CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
TREE PLANTING PLAN

PLOT DATE: 2/7/2024 2:48 PM PLOTTED BY: HANNAH CUSICK P:\16-105-105_Robbins Park - MWRD\04_CAD\14-253-3F\landscape\Sheets\14-253-BF\LP-102.dwg 1/29/2024 10:36 AM



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



Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
GROUNDPLANE PLANTING PLAN

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

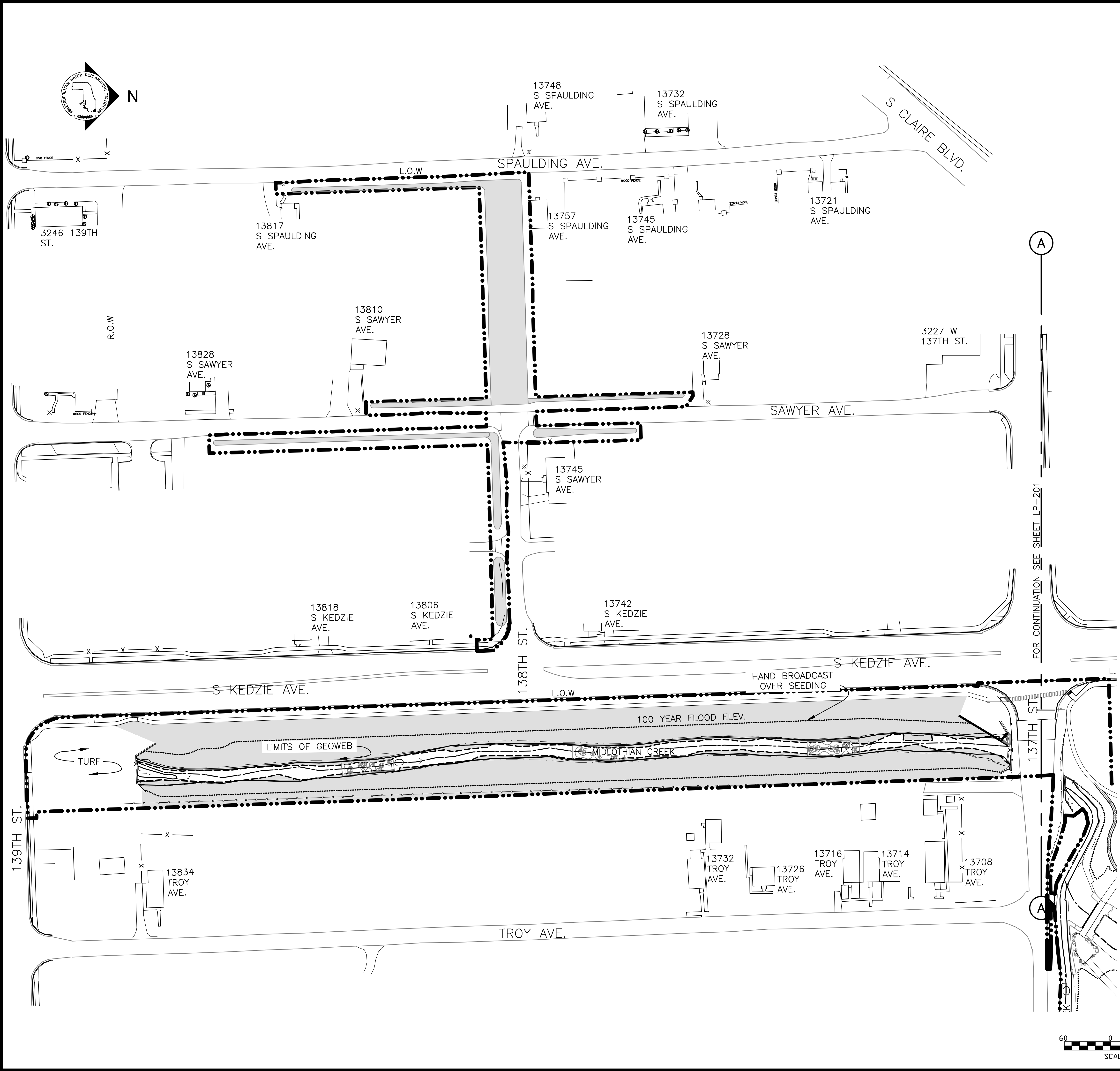
DONOHUE
 ACCURATE
 CONSULTING ENGINEERS

LIVING HABITATS

Sheet Number:
LP-102
 Page Number: 145

P:\16-105-Robbins Park - MWRD\04_CAD\14-253-3F\landscape\Sheets\14-253-BF\LP-103.dwg 1/29/2024 10:32 AM

PLOT DATE: 2/7/2024 2:48 PM PLOTTED BY: HANNAH CUSICK



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

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5F

FLOOD CONTROL PROJECT ON MIDLOTHIAN CREEK IN ROBBINS, CSA LITTLE CALUMET RIVER WATERSHED

EROSION AND SHORELINE PROTECTION PLAN

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

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Living Habitats
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Consulting Engineers

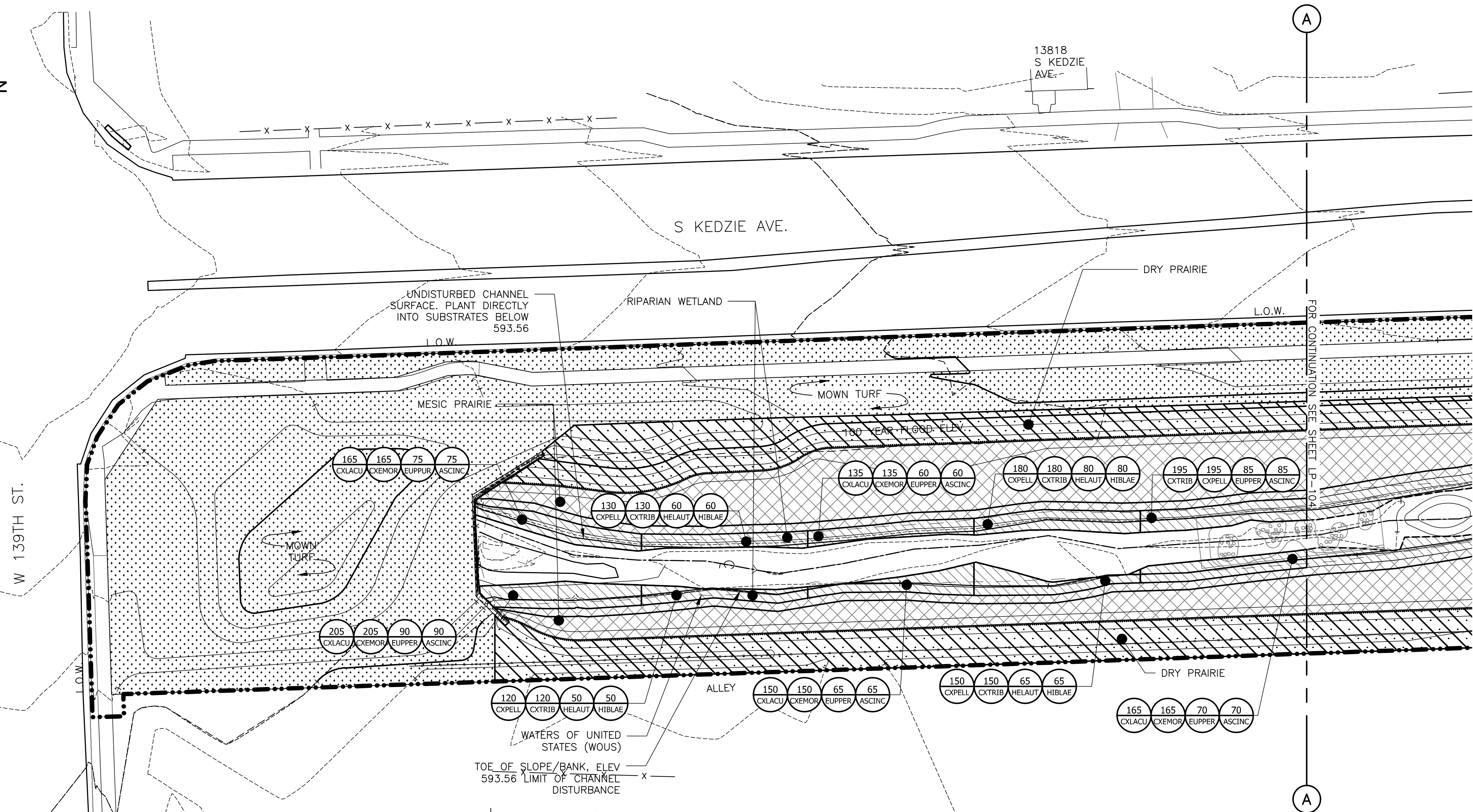
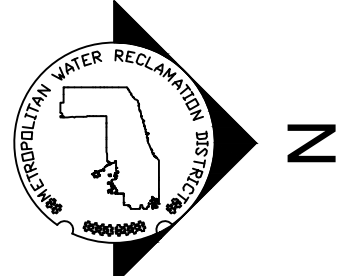
CONTRACT 14-253-5F

FLOOD CONTROL PROJECT ON MIDLOTHIAN CREEK IN ROBBINS, CSA LITTLE CALUMET RIVER WATERSHED

EROSION AND SHORELINE PROTECTION PLAN

Sheet Number:
LP-103
 Page Number: 146

P:\16-105_Robbins Park - MWRD\04_CAD\14-253-3F\landscape\Sheets\14-253-BF\LP-104.dwg 1/17/2024 4:05 PM
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PARTIAL GROUNDPLANE PLANTING PLAN
 SCALE = 1"=20'

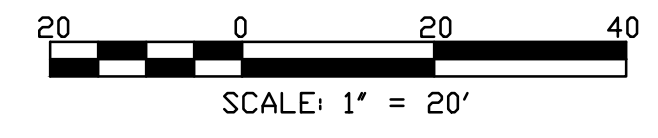
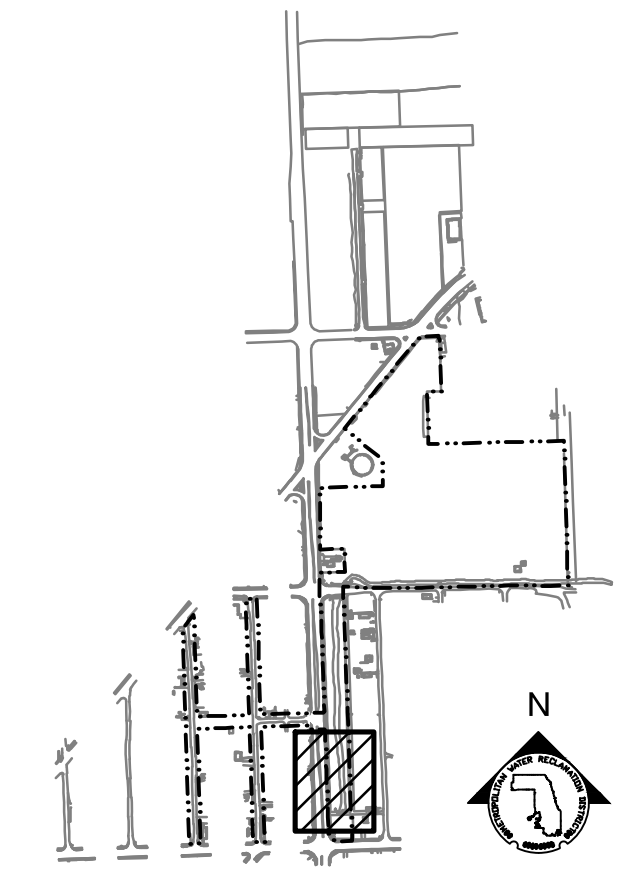
PLANTING NOTES:

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

**METROPOLITAN WATER RECLAMATION DISTRICT
 OF GREATER CHICAGO**

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

LIVING HABITATS

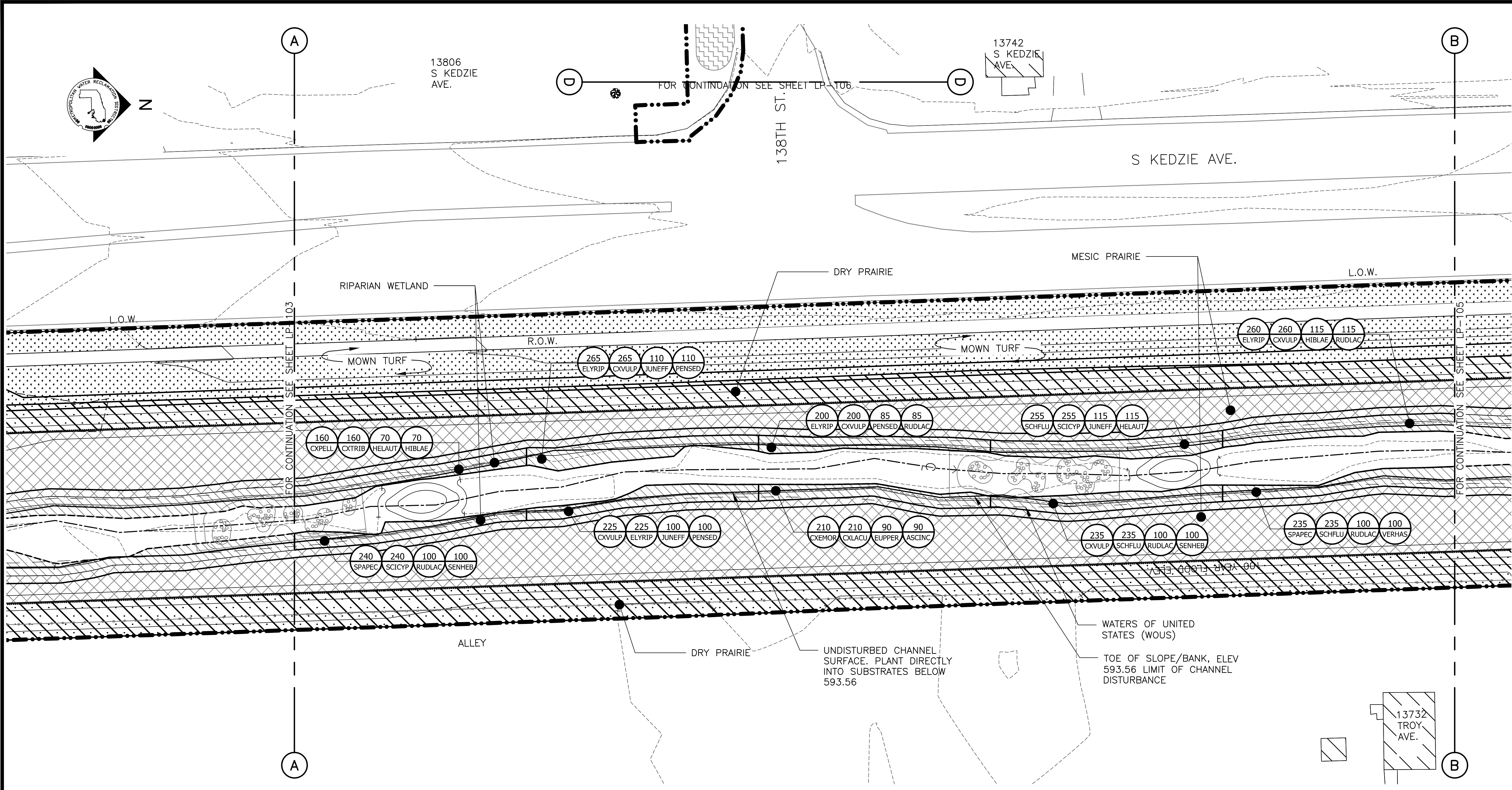
DONOHUE
 Accurate
 CONSULTING ENGINEERS

ZIM
 O'Brien & Associates, Inc.
 CONSULTING ENGINEERS

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

Sheet Number:
LP-104
 Page Number: 147

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PARTIAL GROUNDPLANE PLANTING PLAN
 SCALE = 1"=20'

PLANTING NOTES:

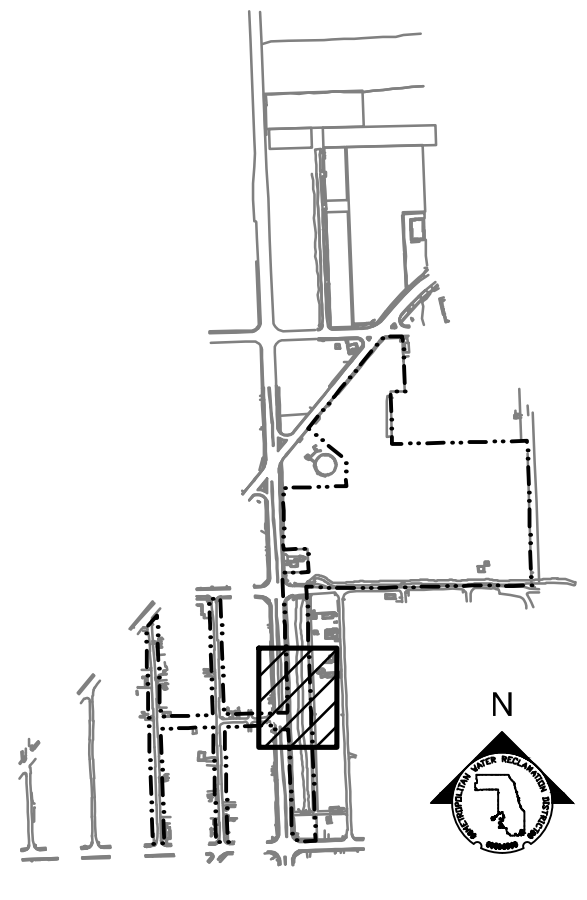
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2. FOR PLANTING SCHEDULE, REFERENCE DRAWING LP-110

LEGEND:

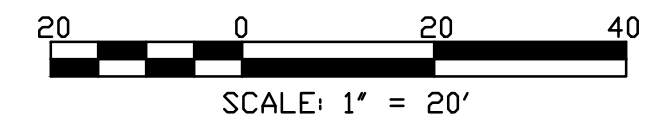
- L.O.W. LIMIT OF WORK
- WOUS WATERS OF UNITED STATES
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- STONE RIFFLES
- MOWN TURF
- RIPARIAN WETLAND
- MESIC PRAIRIE SEED MIX
- DRY PRAIRIE SEED MIX

GENERAL NOTES:

1. SEE UTILITY DRAWINGS FOR CULVERT AND UNDERDRAIN INFORMATION



KEY MAP



Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

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

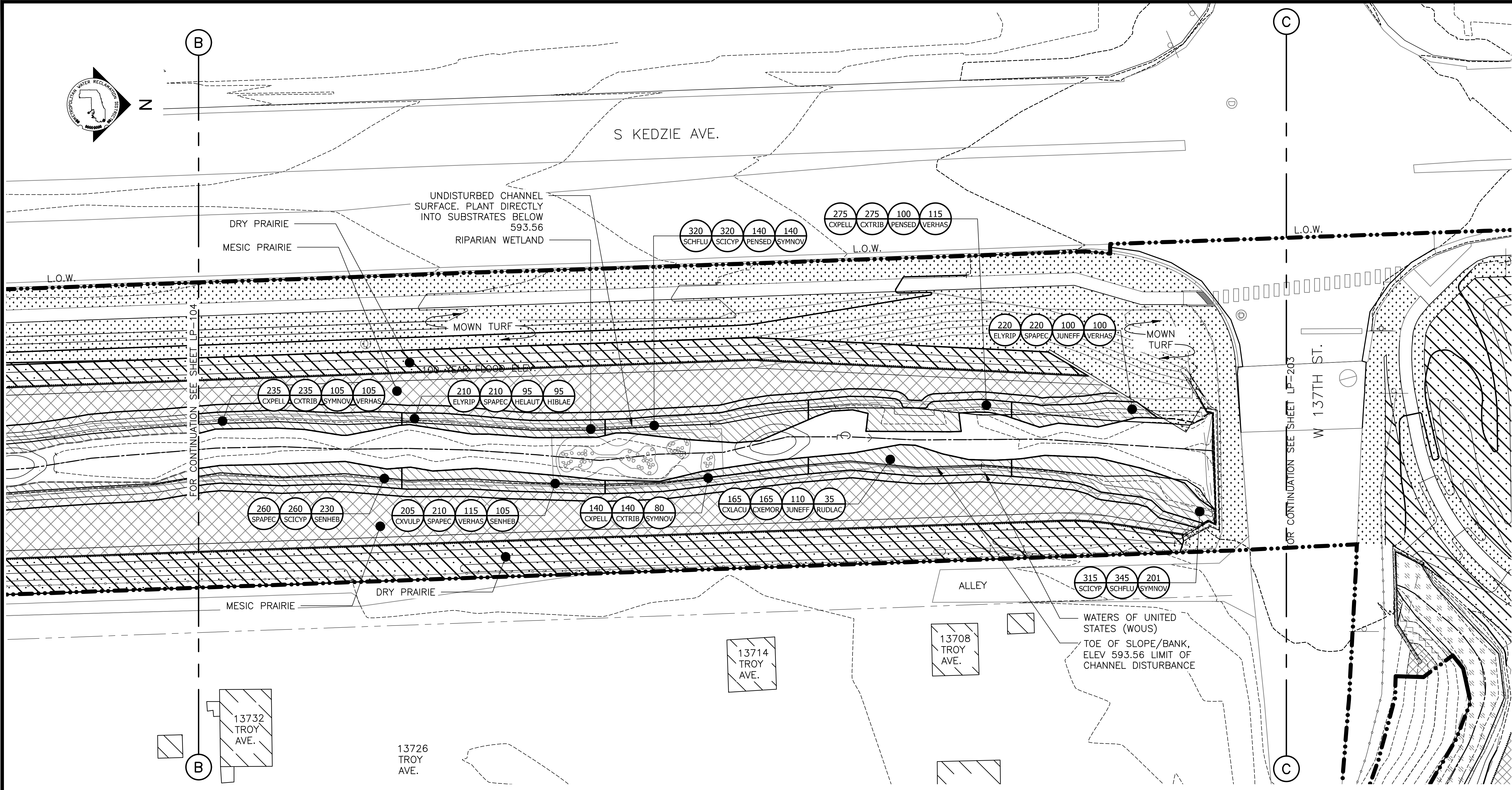
DONOHUE
 ACCURATE GROUP INC.
 CONSULTING ENGINEERS

LIVING HABITATS

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

Sheet Number:
LP-105
 Page Number: 148

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PLANTING NOTES:

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

GENERAL NOTES:

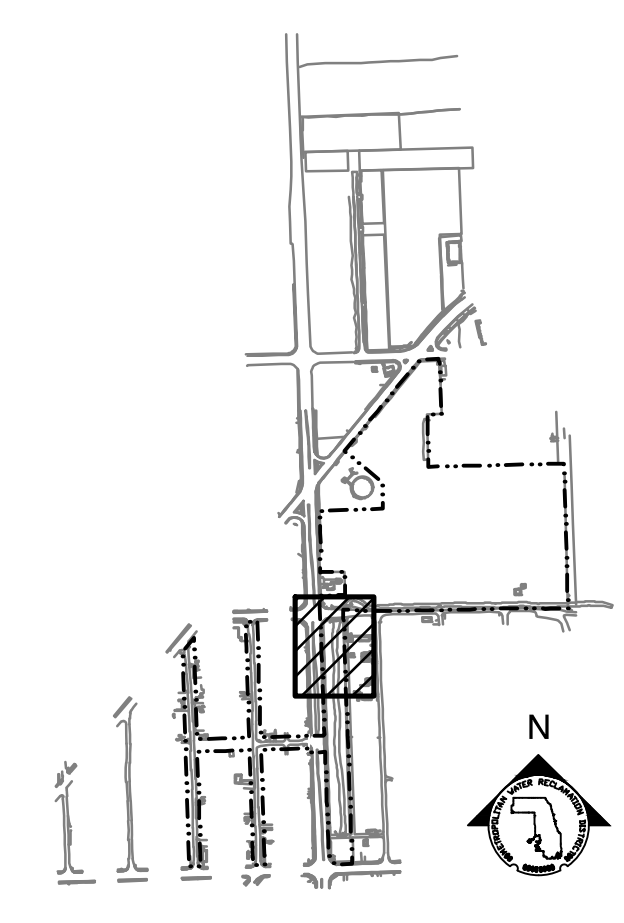
1. SEE UTILITY DRAWINGS FOR CULVERT AND UNDERDRAIN INFORMATION

PARTIAL GROUNDPLANE PLANTING PLAN

SCALE = 1"=20'

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



KEY MAP

SCALE: 1" = 20'

Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

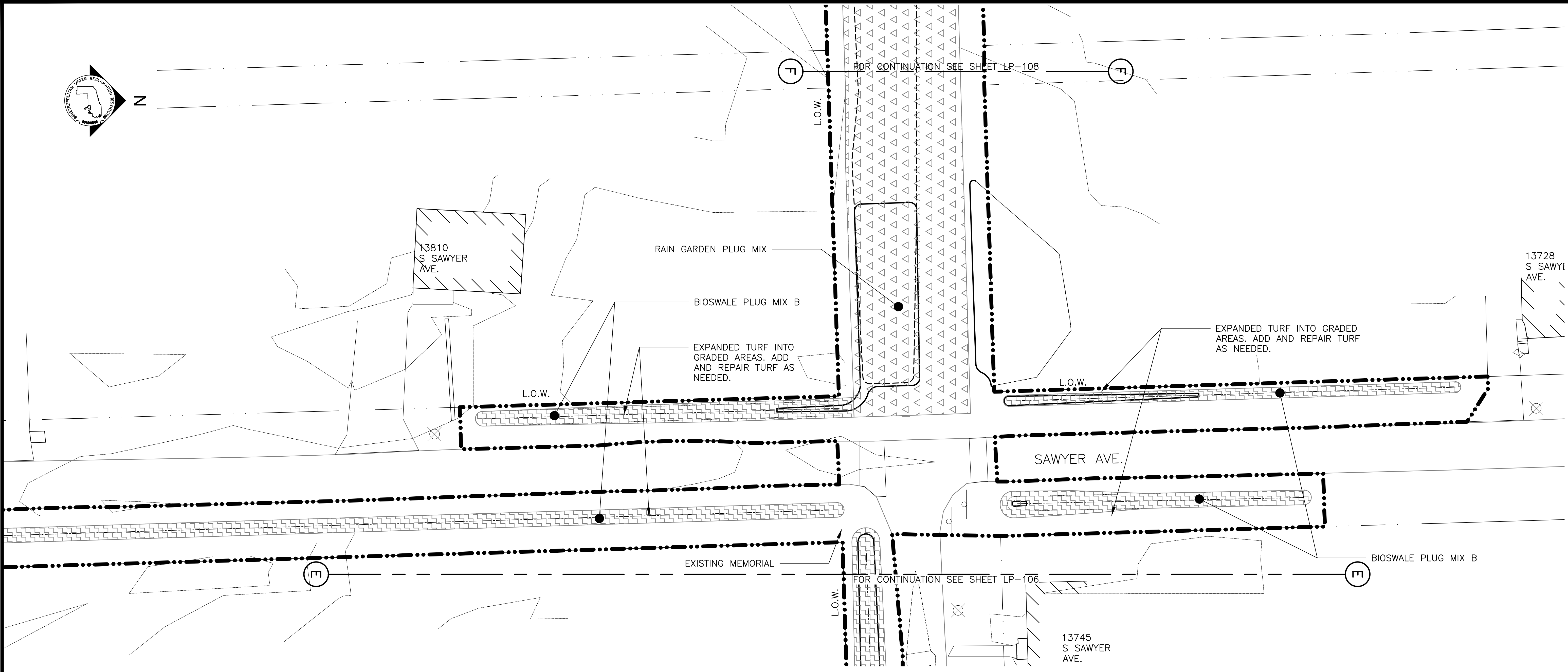
Designed by: LH
 Checked by: LH
 Drawn by: LH
 Reviewed by: LH
 Date: FEB 2024
 Scale: AS SHOWN

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 ENGINEERS & ASSOCIATES, INC.
 CONSULTING ENGINEERS

LIVING HABITATS

Sheet Number:
LP-106
 Page Number: 149

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PARTIAL GROUNDPLANE PLANTING PLAN
 SCALE = 1"=20'

PLANTING NOTES:

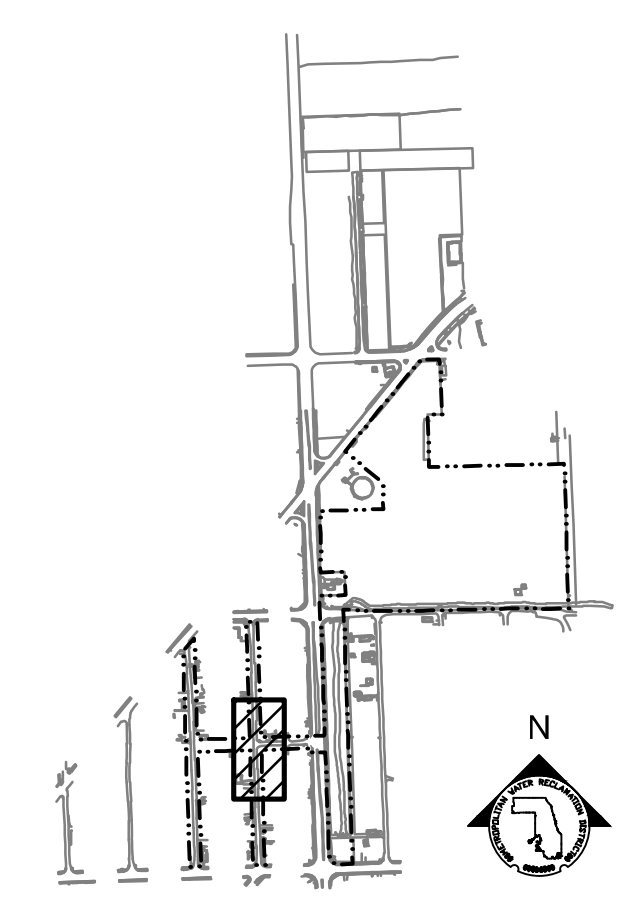
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2. FOR PLANTING SCHEDULE, REFERENCE DRAWINGS LP-109 & LP-110

GENERAL NOTES:

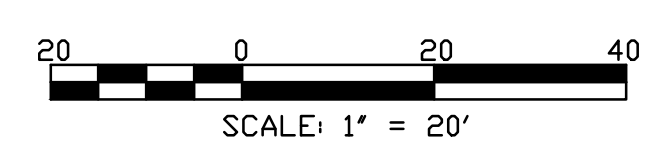
1. SEE UTILITY DRAWINGS FOR CULVERT AND UNDERDRAIN INFORMATION

LEGEND:

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



KEY MAP



SCALE: 1" = 20'

Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

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

Reviewed by: LH
 Scale: AS SHOWN

LIVING HABITATS

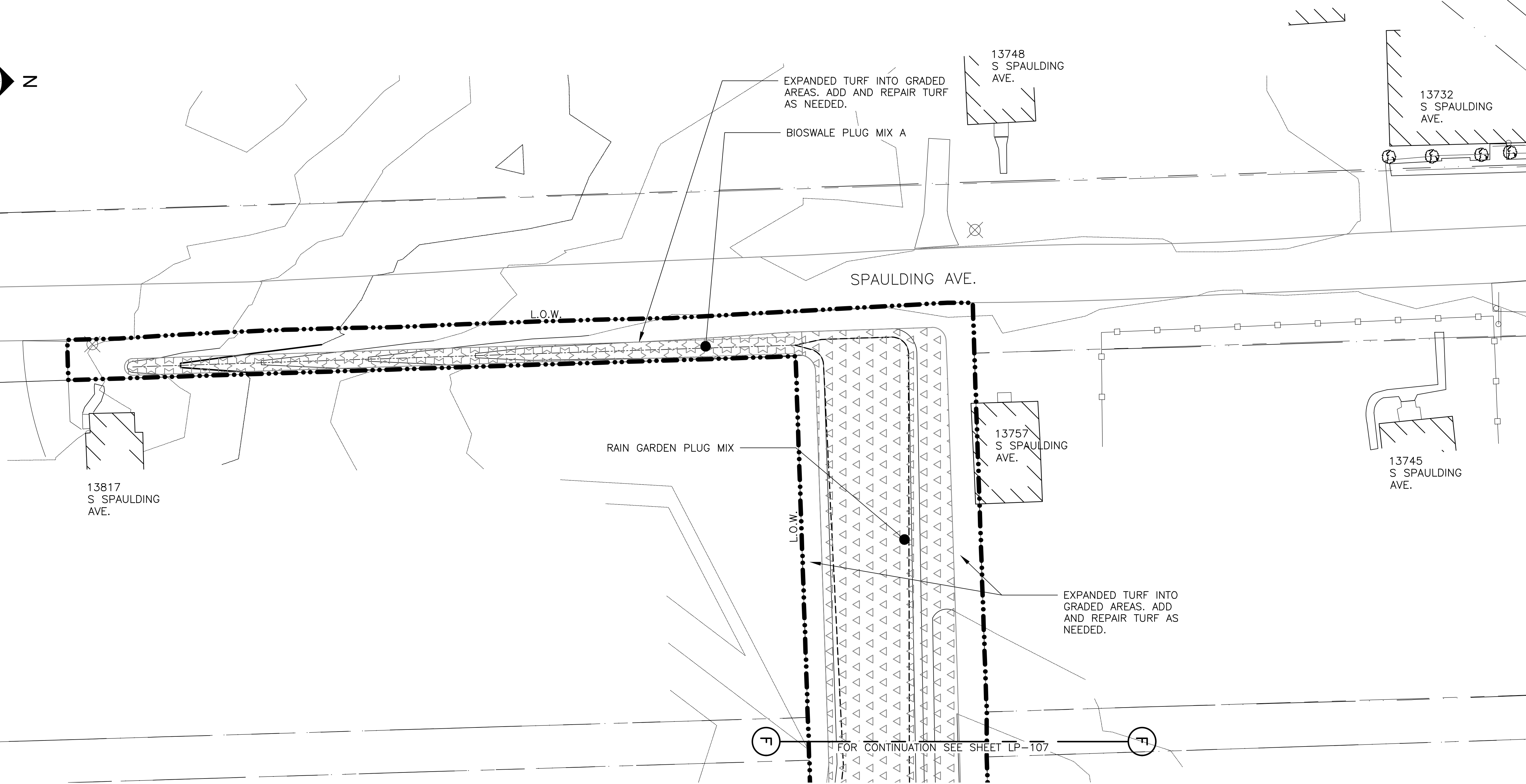
DONOHUE
 ACCURATE
 ENGINEERS & ASSOCIATES, INC.
 CONSULTING ENGINEERS

ZIM
 ENGINEERS

Sheet Number:
LP-108

Page Number: 151

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PARTIAL GROUNDPLANE PLANTING PLAN
 SCALE = 1"=20'

PLANTING NOTES:

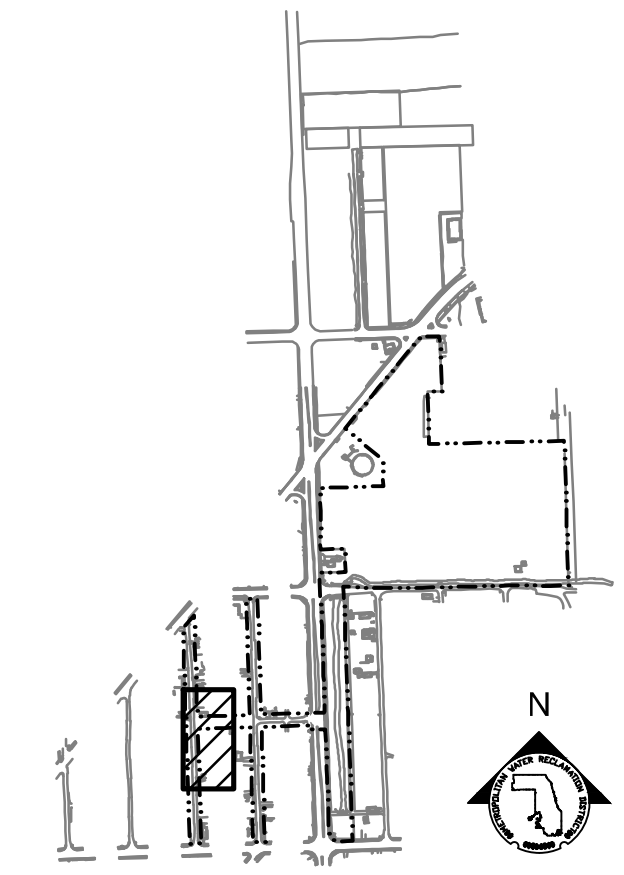
1. REFERENCE NOTES ON LANDSCAPE DRAWING LP-101
2. FOR PLANTING SCHEDULE, REFERENCE DRAWING LP-110

GENERAL NOTES:

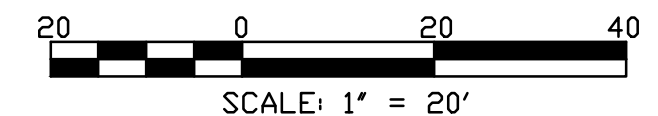
1. SEE UTILITY DRAWINGS FOR CULVERT AND UNDERDRAIN INFORMATION

LEGEND:

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



KEY MAP



SCALE: 1" = 20'

Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

Donohue **Zim**
 CONSULTING ENGINEERS

Accurate
 CONSULTING ENGINEERS

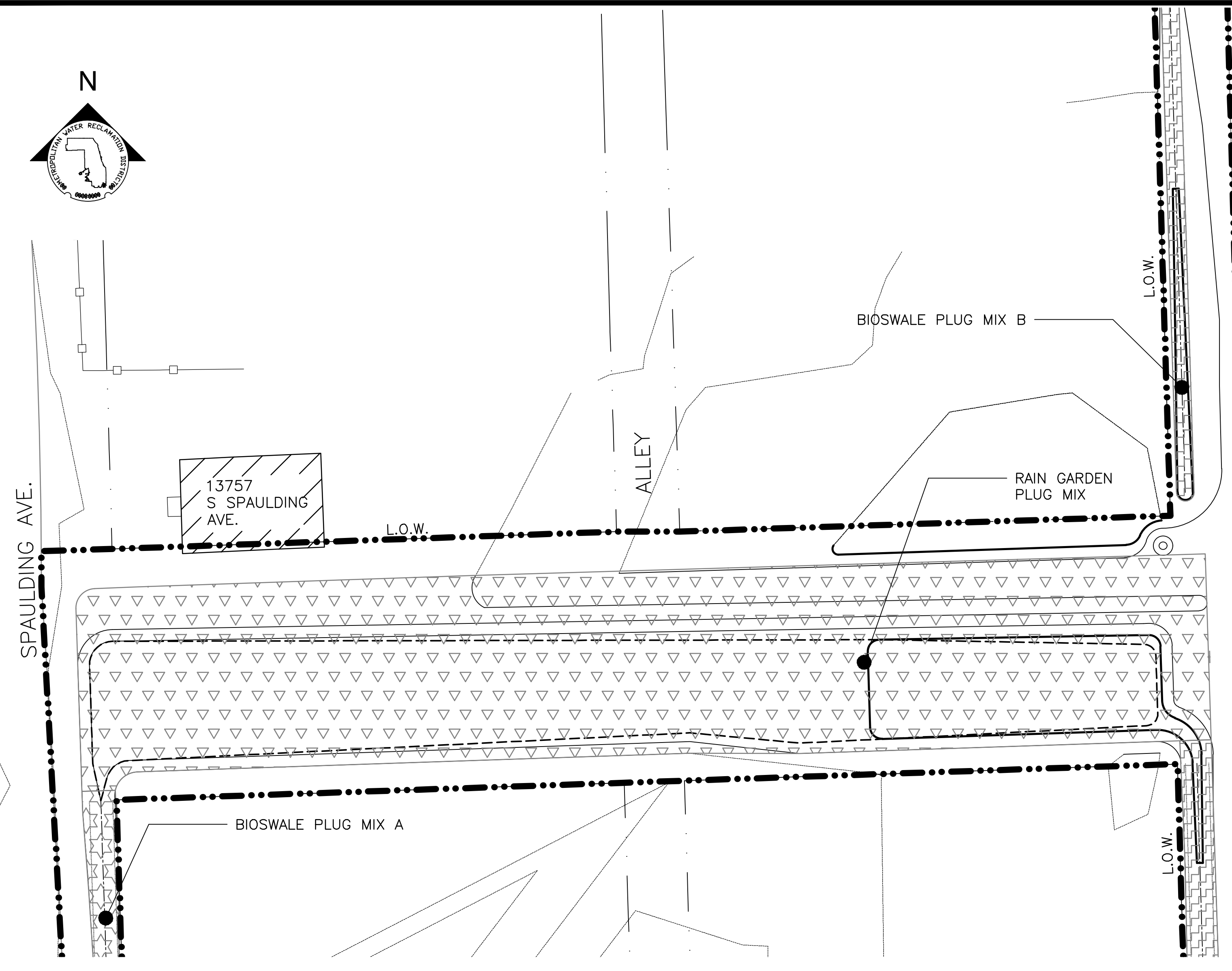
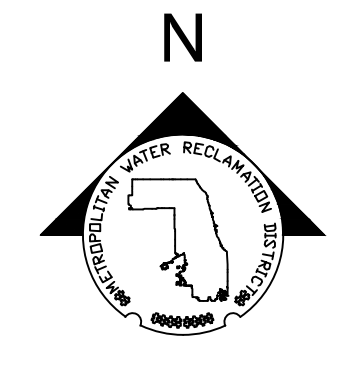
LIVING HABITATS

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

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

Sheet Number:
LP-109
 Page Number: 152

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 PLOT DATE: 2/7/2024 2:50 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	Asclepias incarnata		SWAMP MILKWEED	OBL	P-FORB	12" O.C.
CXEMOR	1020	Carex emoryi		RIVERBANK SEDGE	OBL	P-SEDE	12" O.C.
CXLACU	1020	Carex lacustris		COMMON LAKE SEDGE	OBL	P-SEDE	12" O.C.
CXPELL	2040	Carex pellita		BROAD-LEAVED WOOLLY SEDGE	OBL	P-SEDE	12" O.C.
CXTRIB	1020	Carex tribuloides		AWL-FRUITED OVAL SEDGE	OBL	P-SEDE	12" O.C.
CXVULP	1020	Carex vulpinoidea		BROWN FOX SEDGE	FACW	P-SEDE	12" O.C.
ELYRIP	1020	Elymus riparius		RIVERBANK WILD RYE	FACW	P-GRASS	12" O.C.
EUPPER	610	Eupatorium perfoliatum		COMMON BONESET	FACW	P-FORB	12" O.C.
HELAUT	610	Helenium autumnale		SNEEZEWEED	FACW	P-FORB	12" O.C.
HIBLAE	610	Hibiscus laevis		HALBERD-LEAVED ROSE MALLOW	OBL	P-FORB	12" O.C.
JUNEFF	610	Juncus effusus		COMMON RUSH	OBL	P-FORB	12" O.C.
PENSED	610	Penthorum sedoides		DITCH STONECROP	OBL	P-FORB	12" O.C.
RUDLAC	610	Rudbeckia laciniata		WILD GOLDEN GLOW	FACW	P-FORB	12" O.C.
SCHFLU	1020	Schoenoplectus fluviatilis	Scirpus fluviatilis; Bolboschoenus fluviatilis	RIVER BULRUSH	OBL	P-SEDE	12" O.C.
SCICYP	1020	Scirpus cyperinus		WOOL GRASS	OBL	P-SEDE	12" O.C.
SENHEB	610	Senna hebecarpa	Cassia hebecarpa	WILD SENNA	FACW	P-FORB	12" O.C.
SPAPEC	1020	Spartina pectinata		PRAIRIE CORDGRASS	FACW	P-GRASS	12" O.C.
SYMNOV	610	Symphyotrichum novae-angliae	Aster novae-angliae	NEW ENGLAND ASTER	FACW	P-FORB	12" O.C.
VERHAS	610	Verbena hastata		BLUE VERVAIN	FACW	P-FORB	12" O.C.

GENERAL NOTES:

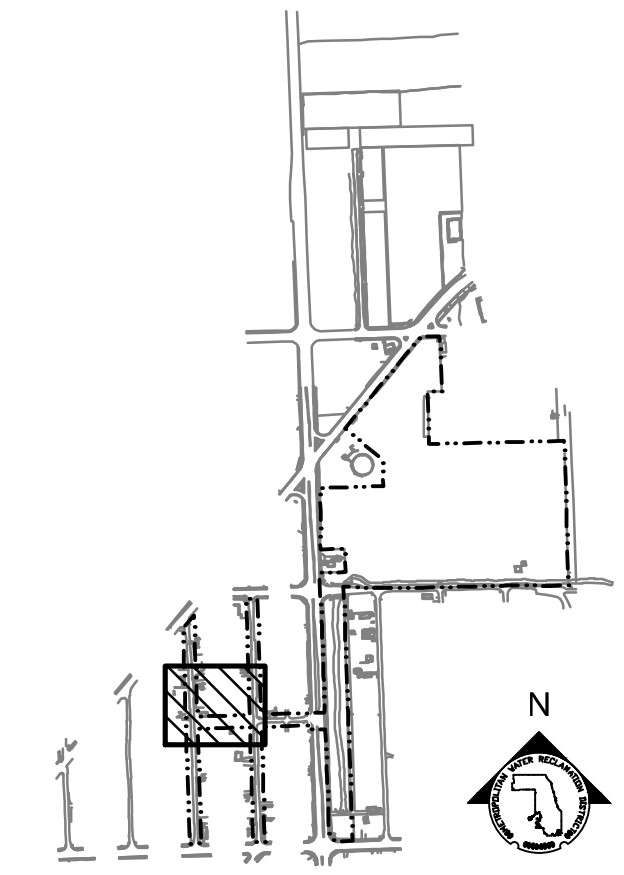
- SEE UTILITY DRAWINGS FOR CULVERT AND STORM SEWER INFORMATION.

PLANTING NOTES:

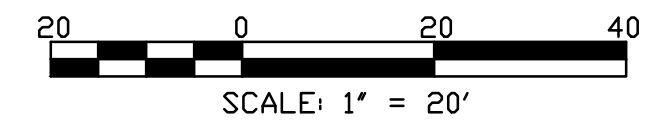
- REFERENCE NOTES ON LANDSCAPE DRAWING LP-101.
- REFERENCE PLANTING SCHEDULES ON LP-110.

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

**METROPOLITAN WATER RECLAMATION DISTRICT
 OF GREATER CHICAGO**

Designed by:
LH
Drawn by:
LH
Date:
FEB 2024

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

OBERLIN & ASSOCIATES, INC.
CONSULTING ENGINEERS

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

Sheet Number:
LP-110
 Page Number: 153

P:\16-105_Robbins Park - MWRD\04_CAD\14-253-3F\Landscape\Sheets\14-253-BF\LP-111.dwg 1/11/2024 12:28 PM
 PLOT DATE: 2/7/2024 2:50 PM PLOTTED BY: HANNAH CUSICK

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	13980	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	8	Allium cernuum	NODDING WILD ONION	FAC-	P-FORB
ANECAN	8	Anemone canadensis	MEADOW ANEMONE	FACW	P-FORB
AQUCAN	8	Aquilegia canadensis	WILD COLUMBINE	FAC-	P-FORB
ASCTUB	8	Asclepias tuberosa	BUTTERFLY MILKWEED	UPL	P-FORB
AVESAT	640	Avena sativa	OATS	UPL	A-GRASS
BAPALB	8	Baptisia alba var. macrophylla	WHITE WILD INDIGO	FACU+	P-FORB
CAMSCI	8	Camassia sicilloides	WILD HYACINTH	FAC+	P-FORB
CORTRI	8	Coreopsis tripteris	TALL COREOPSIS	FAC	P-FORB
ELYCAN	200	Elymus canadensis	CANADA WILD RYE	FAC-	P-GRASS
ERYUC	8	Eryngium yuccifolium	RATTLESNAKE MASTER	FAC+	P-FORB
EUPPER	8	Eupatorium perfoliatum	COMMON BONESET	FACW+	P-FORB
GENAND	8	Gentiana andrewsii	BOTTLE GENTIAN	FACW	P-FORB
HEURIC	8	Heuchera richardsonii	PRAIRIE ALUM ROOT	FAC-	P-FORB
JUNDUD	8	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	8	Monarda fistulosa	WILD BERGAMOT	FACU	P-FORB
PENDIG	16	Penstemon digitalis	FLOXGLOVE BEARD TONGUE	FAC-	P-FORB
PHYVIR	8	Physostegia virginiana	OBEDIENT PLANT	UPL	P-FORB
POLREP	8	Polemonium reptans	JACOB'S LADDER	FAC	P-FORB
RATPIN	16	Ratibida pinnata	YELLOW CONEFLOWER	UPL	P-FORB
RUDSUB	16	Rudbeckia subtomentosa	SWEET BLACK EYED-SUSAN	FACU+	P-FORB
SCHSCO	200	Schizachyrium scoparium	LITTLE BLUESTEM GRASS	FACU	P-GRASS
SILTER	8	Silphium terebinthinaceum	PRAIRIE DOCK	FACU	P-FORB
SYMERI	8	Symphotrichum ericoides	HEATHER ASTER	FACU-	P-FORB
THADAS	8	Thalictrum dasycarpum	SMOOTH MEADOW RUE	FACW-	P-FORB
TRAOHI	8	Tradescantia ohiensis	COMMON SPIDERWORT	UPL	P-FORB
VERVIR	8	Veronicastrum virginicum	CULVER'S ROOT	FAC	P-FORB
ZIZAUR	8	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	10	Amorpha canescens		LEAD PLANT	UPL	P-FORB
ASCTUB	10	Asclepias tuberosa		BUTTERFLY WEED	UPL	P-FORB
ASCVER	10	Asclepias verticillata		WHORLED MILKWEED	UPL	P-FORB
ASTCAN	10	Astragalus canadensis		CANADIAN MILK VETCH	FAC	P-FORB
AVESAT	640	Avena sativa		OATS	UPL	A-GRASS
BLECIL	10	Blephilia ciliata		OHIO HORSE MINT	UPL	P-FORB
BOUCUR	60	Bouteloua curtipendula		SIDE-OATS GRAMA	UPL	P-GRASS
BRIEUP	10	Brickellia eupatorioides var. corymbulosa	Kuhnia eupatorioides corymbulosa	FALSE BONESET	UPL	P-FORB
CXBICK	10	Carex bicknellii		COPPER-SHOULDERED OVAL SEDGE	UPL	P-SEDEGE
CXMOLE	10	Carex molesta		FIELD OVAL SEDGE	FAC	P-SEDEGE
CORPAL	10	Coreopsis palmata		PRAIRIE COREOPSIS	UPL	P-FORB
DALCAN	10	Dalea candida	Petalostemum candidum	WHITE PRAIRIE CLOVER	UPL	P-FORB
DALPUR	10	Dalea purpurea	Petalostemum purpureum	PURPLE PRAIRIE CLOVER	UPL	P-FORB
DRYARG	10	Dryocallis arguta	Potentilla arguta	PRAIRIE CINQUEFOIL	FACU	P-FORB
ECHPAL	10	Echinacea pallida		PURPLE CONEFLOWER	UPL	P-FORB
ELYCAN	200	Elymus canadensis		CANADA WILD RYE	FAC-	P-GRASS
HELOCC	10	Helianthus occidentalis		WESTERN SUNFLOWER	FACU	P-FORB
KOEMAC	20	Koeleria macrantha	Koeleria cristata	JUNE GRASS	UPL	P-GRASS
LESCAP	10	Lespedeza capitata		ROUND-HEADED BUSH CLOVER	FACU	P-FORB
LIAASP	10	Liatris aspera		ROUGH BLAZING STAR	UPL	P-FORB
MONFIS	10	Monarda fistulosa		WILD BERGAMONT	FACU	P-FORB
MONPUN	10	Monarda punctata		HORSE MINT	UPL	P-FORB
PENDIG	10	Penstemon digitalis		FOXGLOVE BEARD TONGUE	FAC	P-FORB
PHYVIR	10	Physostegia virginiana arenaria		OBEDIENT PLANT	FACW	P-FORB
RATPIN	10	Ratibida pinnata		YELLOW CONEFLOWER	UPL	P-FORB
RUDHIR	10	Rudbeckia hirta		BLACK-EYED SUSAN	FACU	P-FORB
RUEHUM	10	Ruellia humilis		HAIRY RUELLIA	FACU	P-FORB
SCHSCO	100	Schizachyrium scoparium	Andropogon scoparius	LITTLE BLUESTEM GRASS	FACU	P-GRASS
SILINT	10	Silphium integrifolium var. deamii		DEAM'S ROSIN WEED	UPL	P-FORB
SOLRIG	10	Solidago rigida		STIFF GOLDENROD	FACU-	P-FORB
SOLSPE	10	Solidago speciosa		SHOWY GOLDENROD	UPL	P-FORB
SOLPTA	10	Solidago ptarmicoides	Aster ptarmicoides; Oligoneuron album	STIFF ASTER	UPL	P-FORB
SPOHET	20	Sporobolus heterolepis		PRAIRIE DROPSEED	FACU	P-GRASS
SYMLAE	10	Symphotrichum laeve	Aster laevis	SMOOTH BLUE ASTER	UPL	P-FORB
SYMOOL	10	Symphotrichum oolentangiense	Aster azureus	SKY-BLUE ASTER	UPL	P-FORB
TRAOHI	10	Tradescantia ohiensis		COMMON SPIDERWORT	FACU+	P-FORB
ZIZAPT	10	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.

Appr. Date	
Rev. Description	

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

Contract 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
 PLANTING SCHEDULE



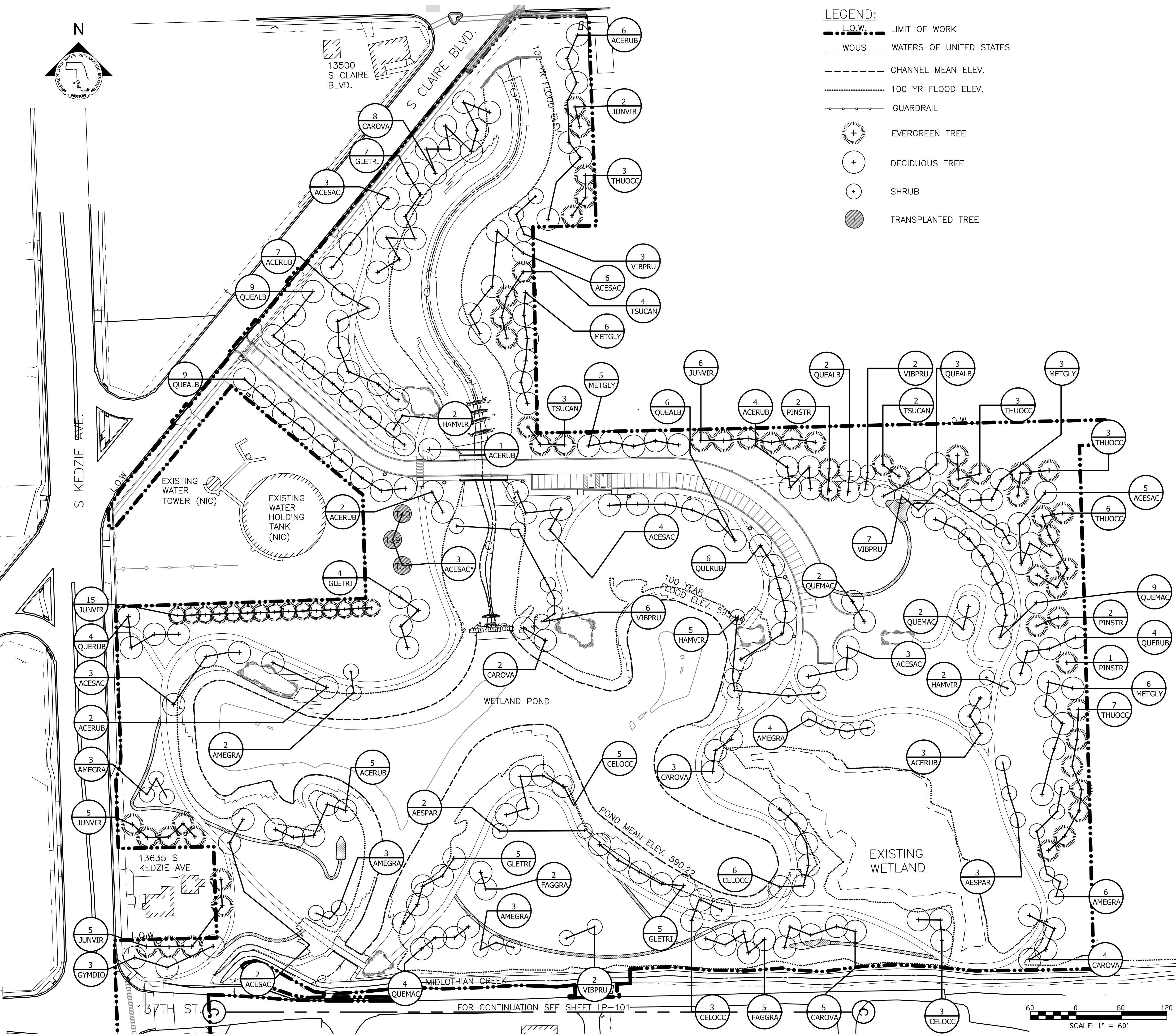


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Sheet Number:
LP-111

Page Number: 154

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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

**METROPOLITAN WATER RECLAMATION DISTRICT
OF GREATER CHICAGO**

Checked by: LH
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 Date: FEB 2024

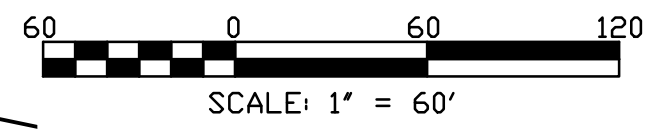
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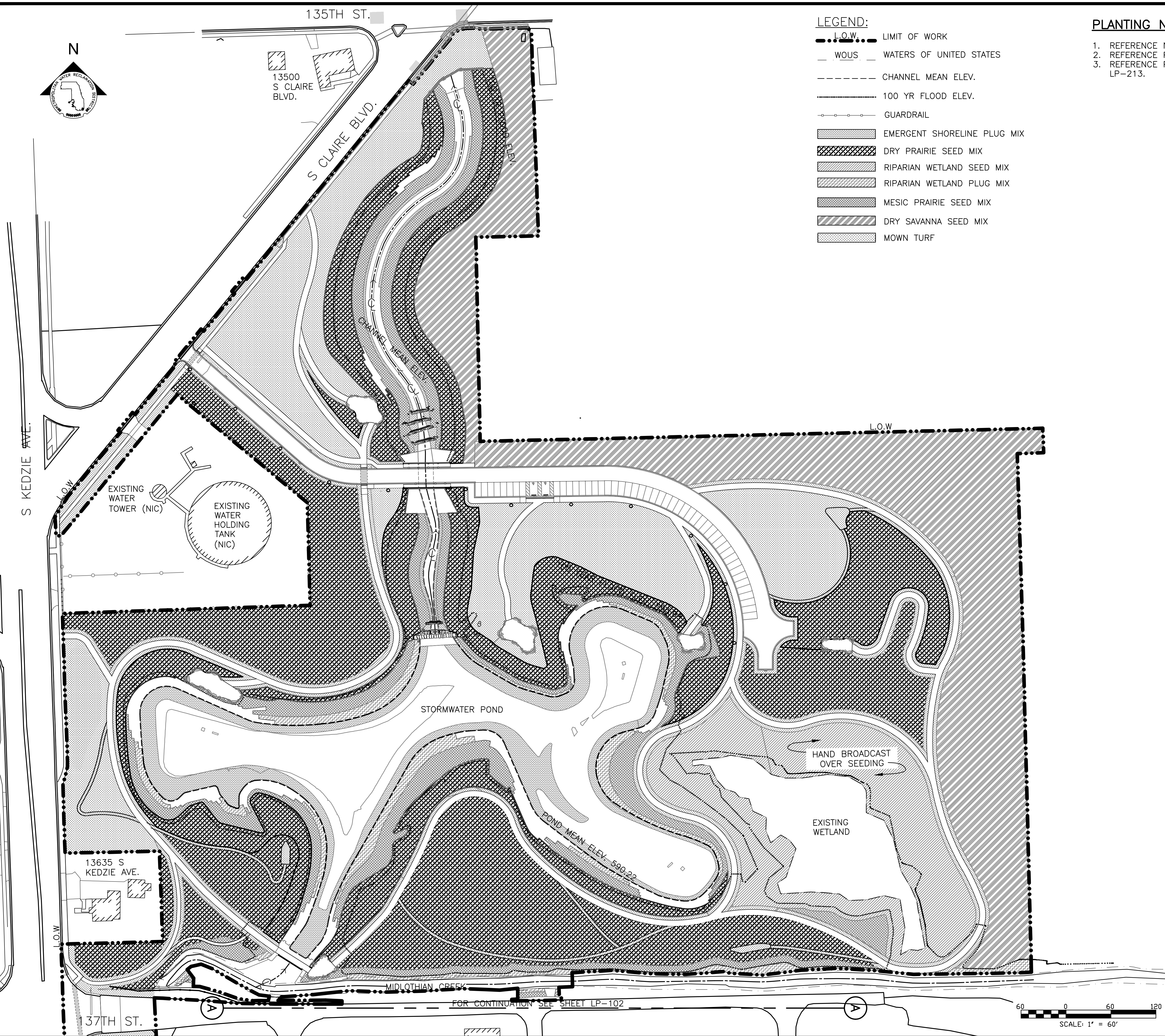
CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
TREE PLANTING PLAN

Sheet Number:
LP-201
 Page Number: 155



FOR CONTINUATION SEE SHEET LP-101

PLOT DATE: 2/7/2024 2:50 PM PLOTTED BY: HANNAH CUSICK
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- LEGEND:**
- L.O.W. --- LIMIT OF WORK
 - - - - - WOUS - - - - - WATERS OF UNITED STATES
 - - - - - CHANNEL MEAN ELEV.
 - 100 YR FLOOD ELEV.
 - GUARDRAIL ---
 - [Hatched Box] EMERGENT SHORELINE PLUG MIX
 - [Hatched Box] DRY PRAIRIE SEED MIX
 - [Hatched Box] RIPARIAN WETLAND SEED MIX
 - [Hatched Box] RIPARIAN WETLAND PLUG MIX
 - [Hatched Box] MESIC PRAIRIE SEED MIX
 - [Hatched Box] DRY SAVANNA SEED MIX
 - [Hatched Box] 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

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

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 Scale: AS SHOWN

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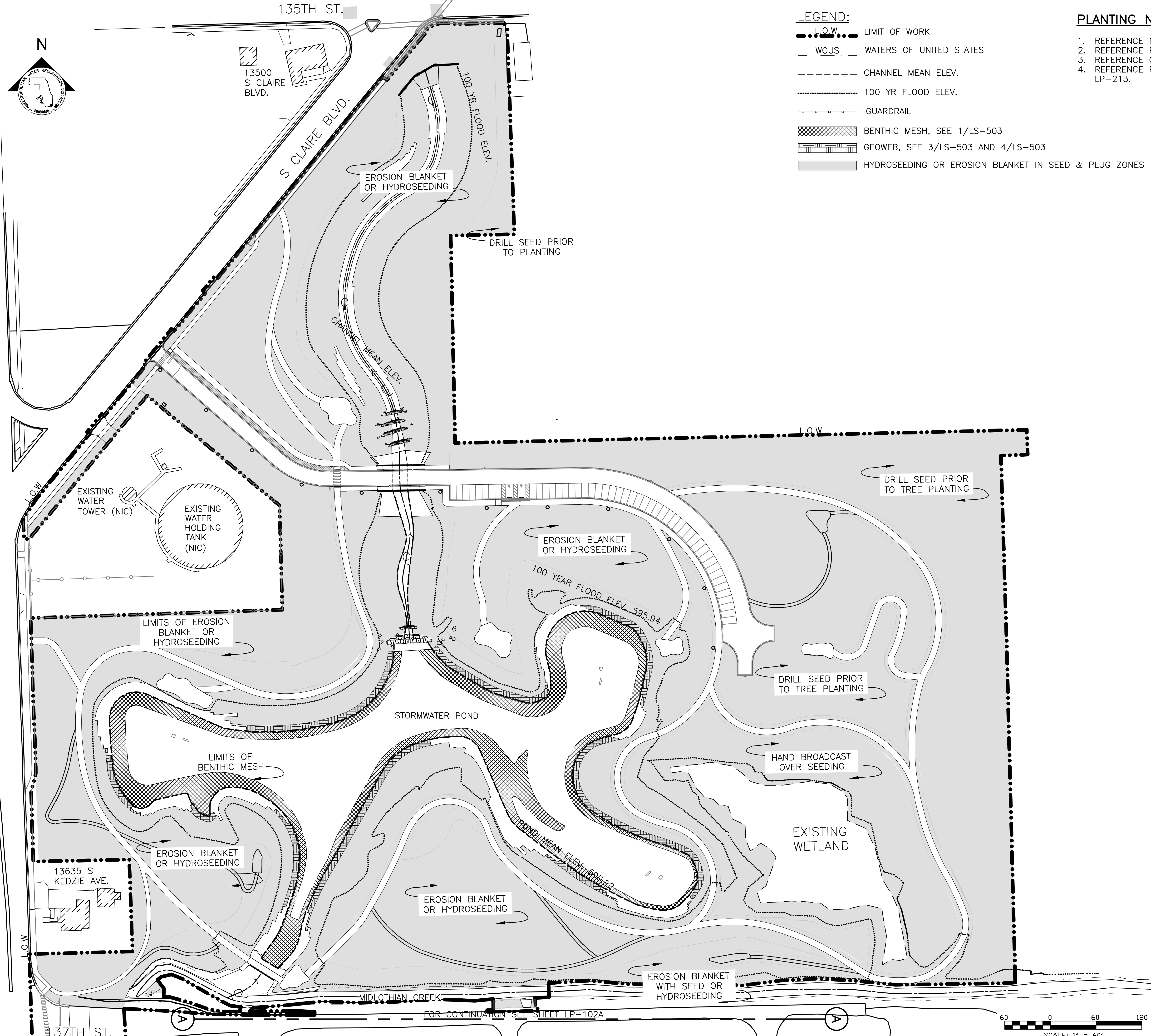
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CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
GROUNDPLANE PLANTING PLAN

PLOT DATE: 2/7/2024 2:50 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
 - [Cross-hatched box] BENTHIC MESH, SEE 1/LS-503
 - [Horizontal lines box] GEOWEB, SEE 3/LS-503 AND 4/LS-503
 - [Stippled box] 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.

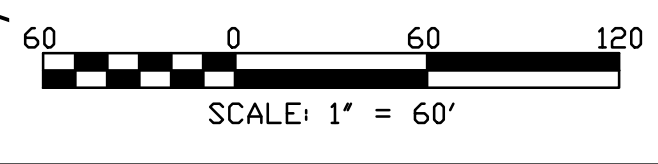
Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

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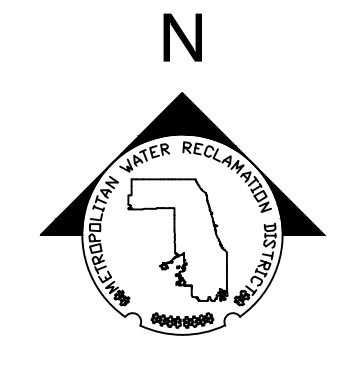
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CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
EROSION AND SHORELINE PROTECTION PLAN



FOR CONTINUATION SEE SHEET LP-102A

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FOR CONTINUATION SEE SHEET LP-206

FOR CONTINUATION SEE SHEET LP-105

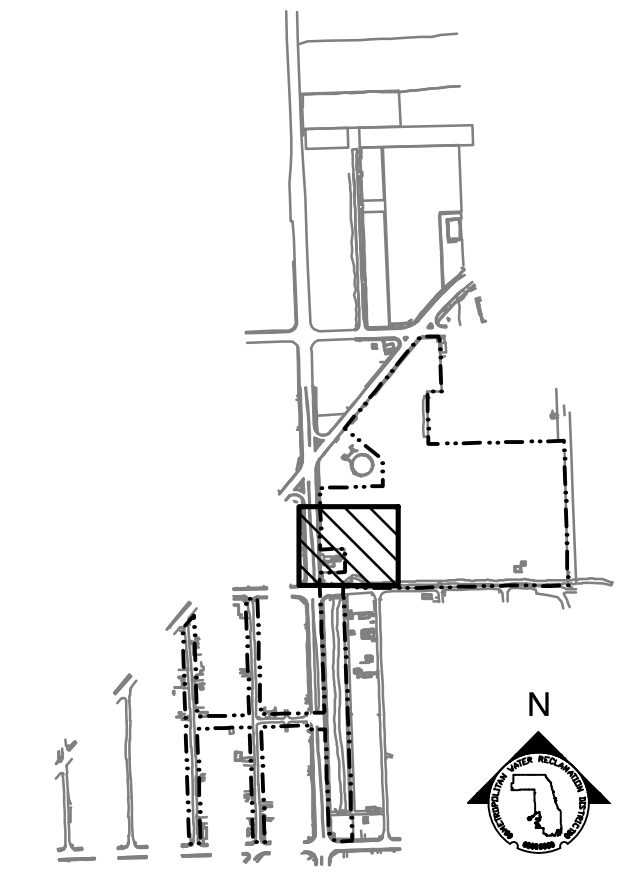
PARTIAL GROUNDPLANE PLANTING PLAN
 SCALE = 1"=20'

PLANTING NOTES:

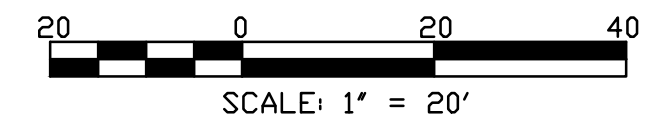
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2. FOR PLANTING SCHEDULES, REFERENCE DRAWINGS LP-222 & LP-223.

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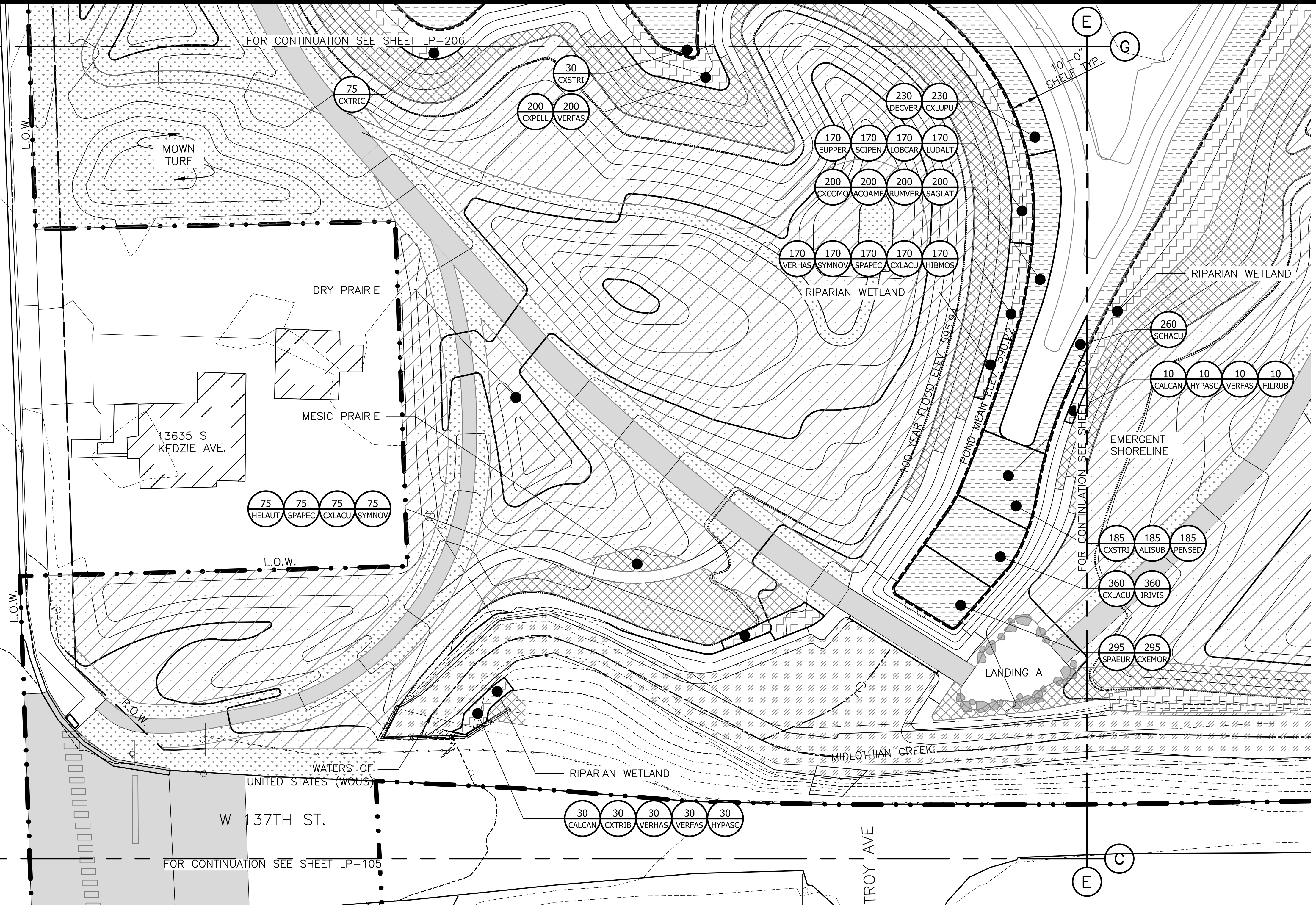
- L.O.W. LIMIT OF WORK
- WOUS WATERS OF UNITED STATES
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- (600) --- EXISTING CONTOUR
- 600 --- PROPOSED CONTOUR
- GUARDRAIL
- /// DREDGE CHANNEL
- SIDEWALK, SEE LM SERIES FOR MATERIALS/FINISHES
- RIP RAP
- EMERGENT SHORELINE PLUG MIX
- DRY PRAIRIE SEED MIX
- RIPARIAN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



KEY MAP



SCALE: 1" = 20'



Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

Contract 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

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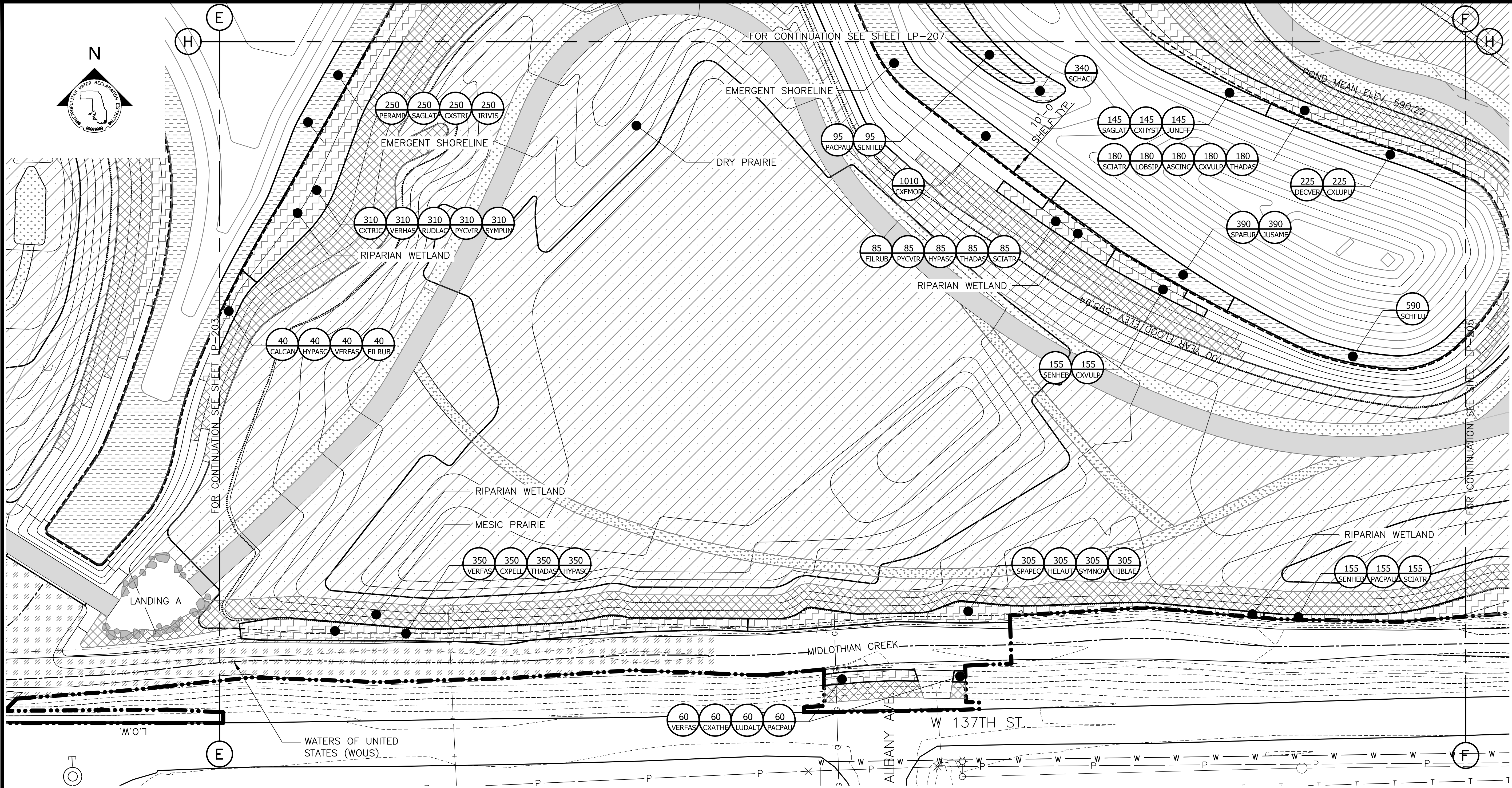
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Sheet Number:
LP-204

Page Number: 158

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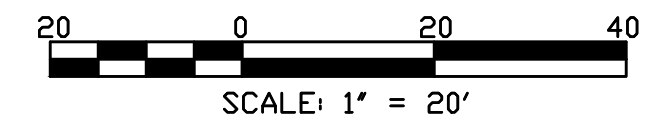
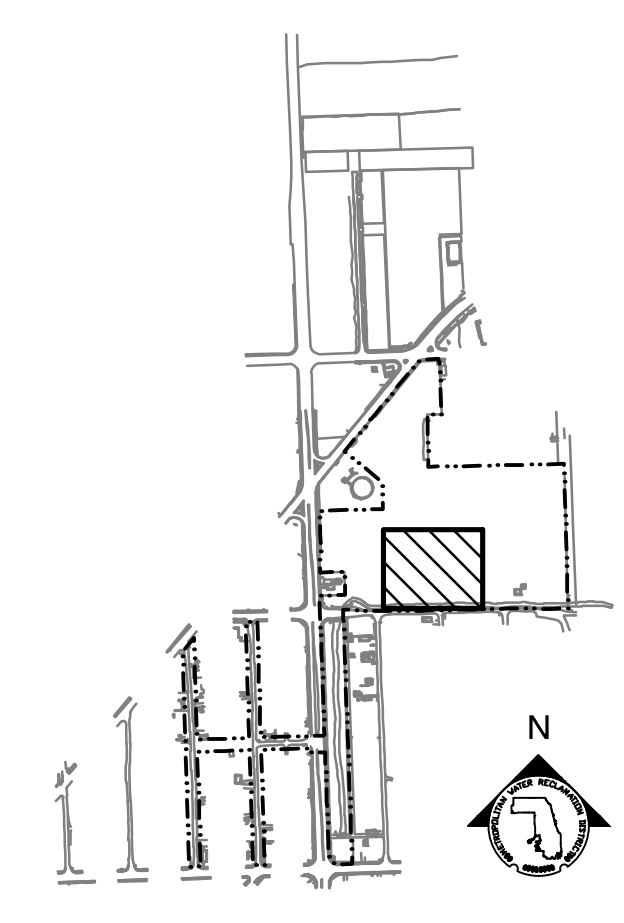
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1. REFERENCE NOTES ON LANDSCAPE DRAWING LP-101
2. FOR PLANTING SCHEDULES, REFERENCE DRAWINGS LP-222 & LP-223.

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

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

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Scale: AS SHOWN

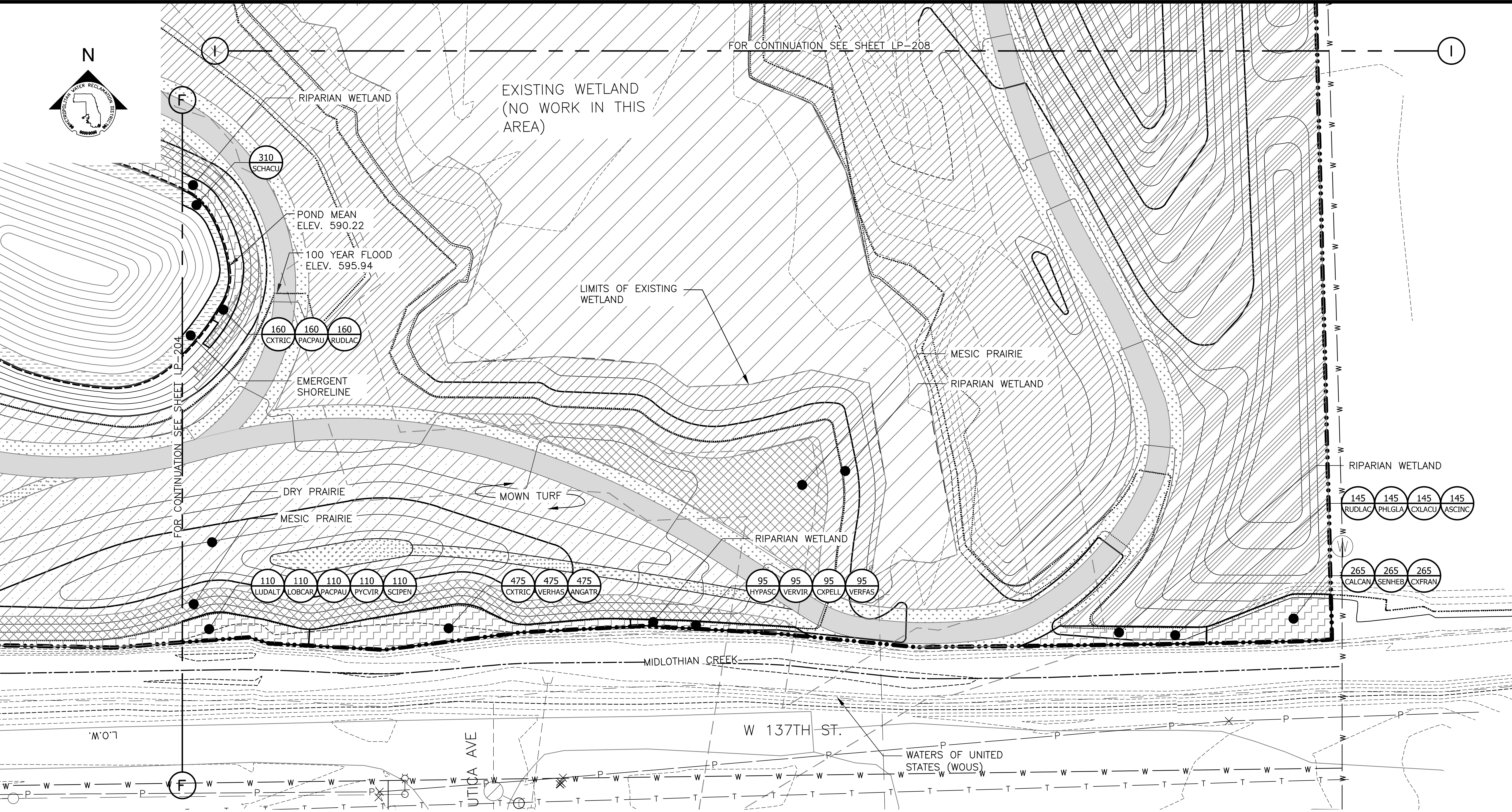
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CONTRACT 14-253-5F
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, CSA
LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

Sheet Number:
LP-205
Page Number: 159

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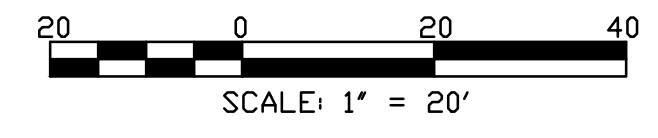
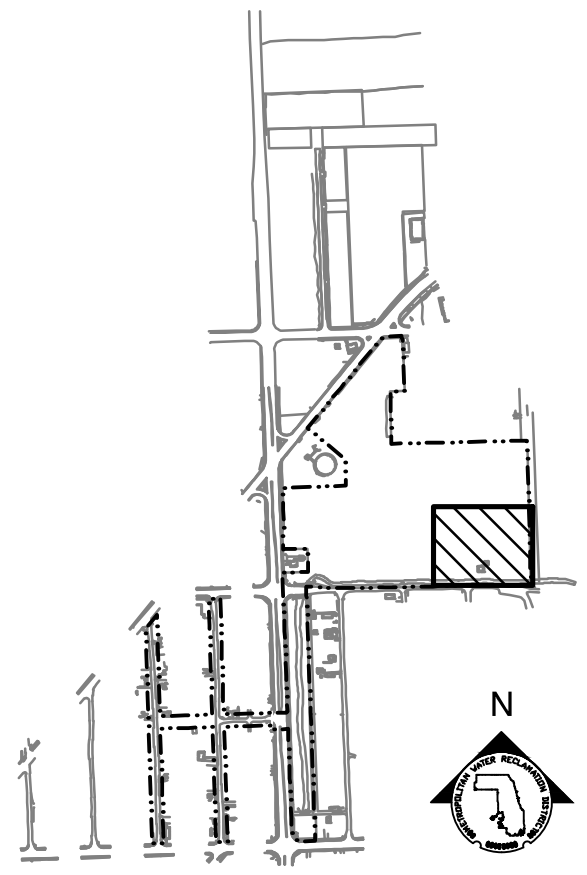
PLANTING NOTES:

- 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'



Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

Designed by: LH
Checked by: LH
Date: FEB 2024

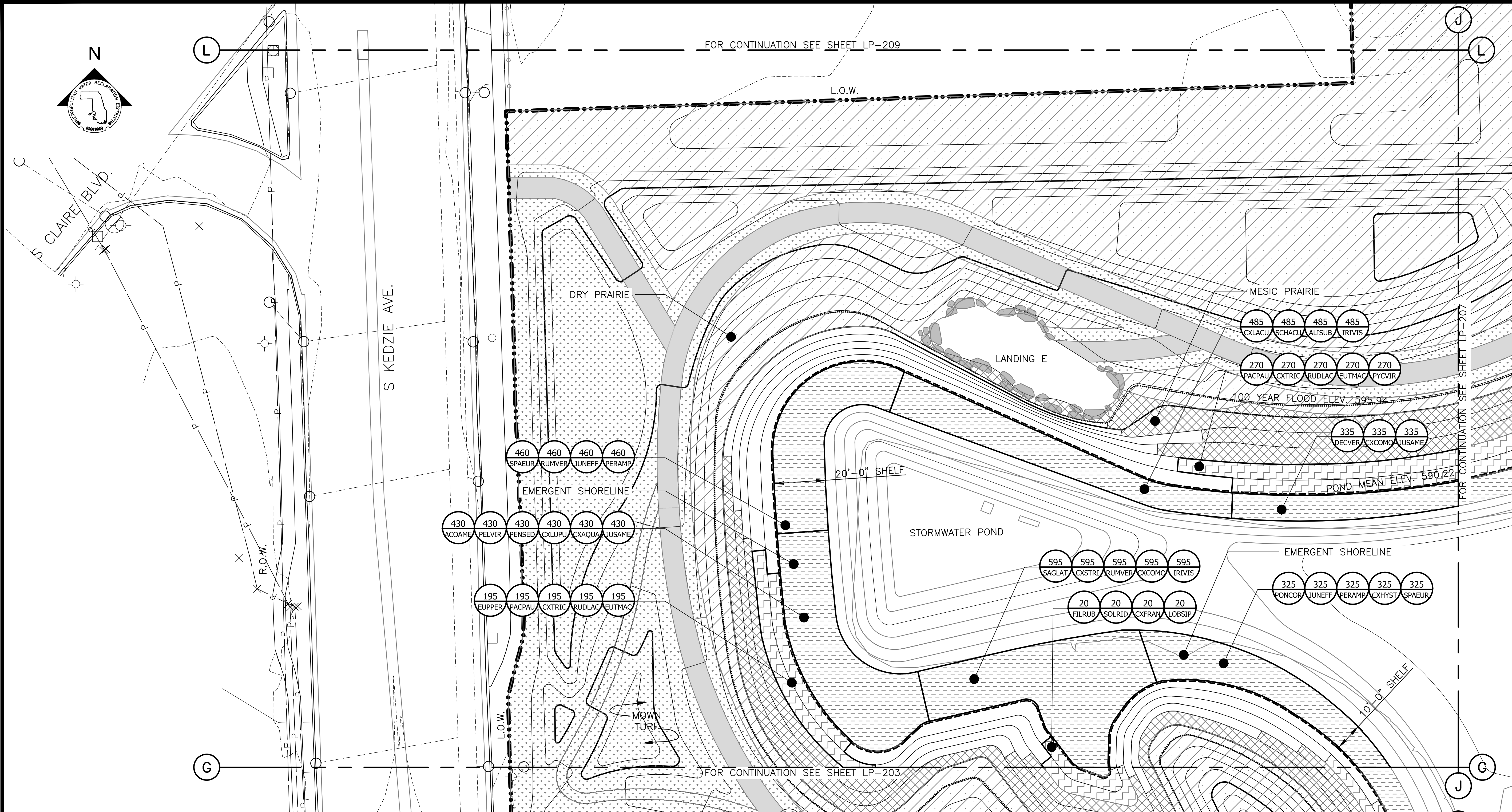
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LIVING HABITATS

CONTRACT 14-253-5F
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, CSA
LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

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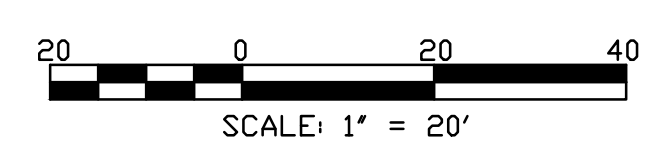
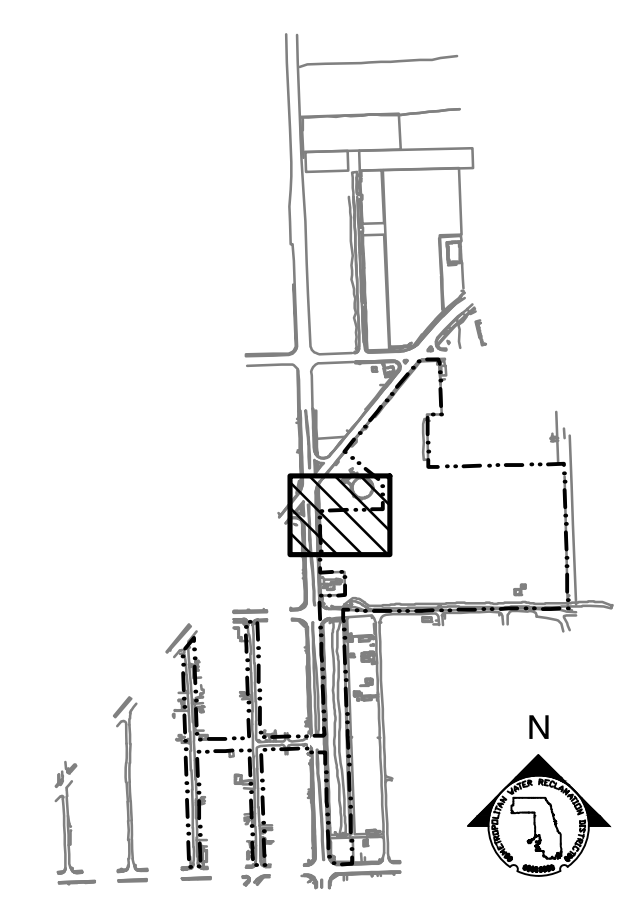
PLANTING NOTES:

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
- o--- 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

PARTIAL GROUNDPLANE PLANTING PLAN
 SCALE = 1"=20'



Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

Contract 14-253-5F
 FLOOD CONTROL PROJECT ON MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

Designed by: LH
 Checked by: LH

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 Reviewed by: LH

Date: FEB 2024
 Scale: AS SHOWN

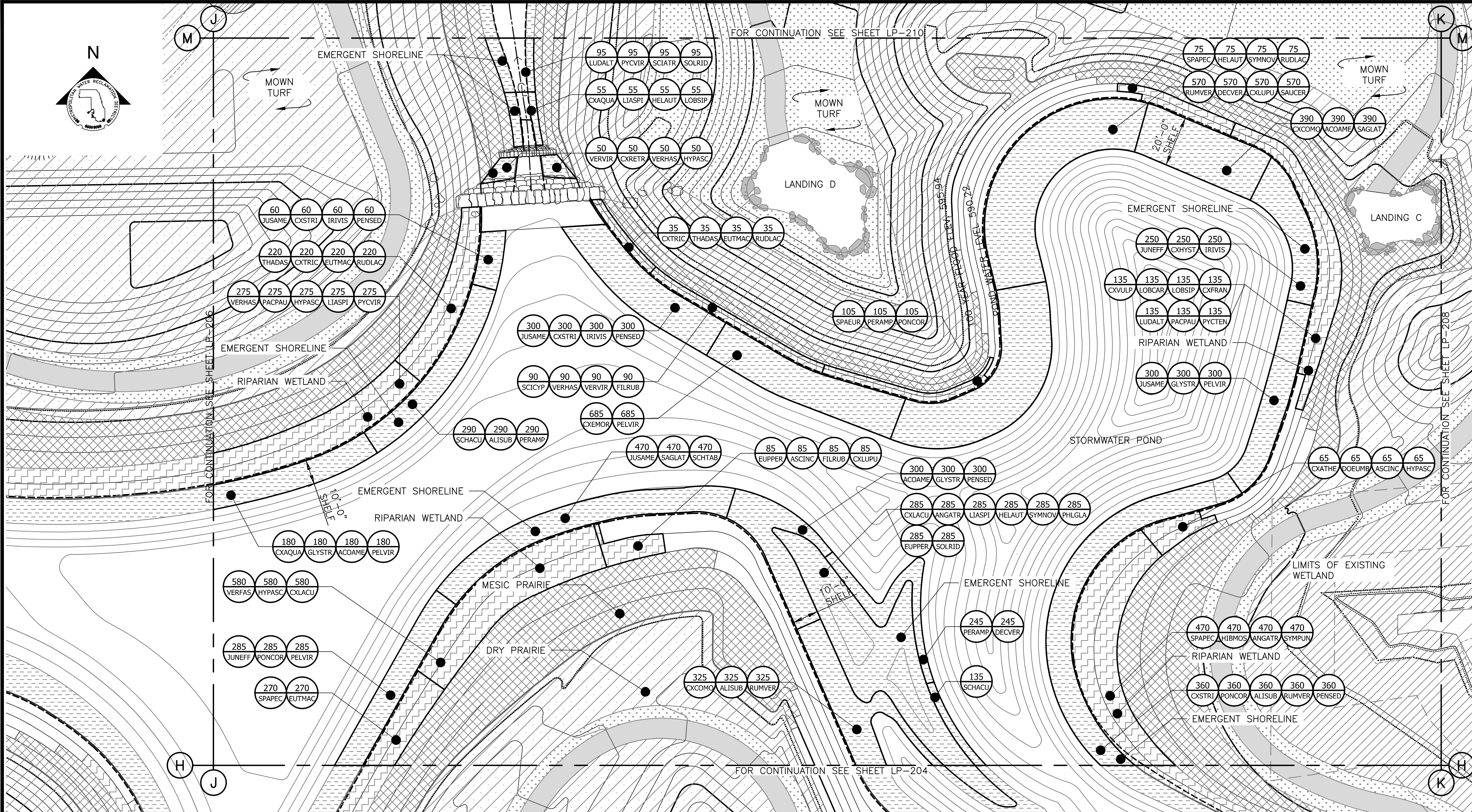
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CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

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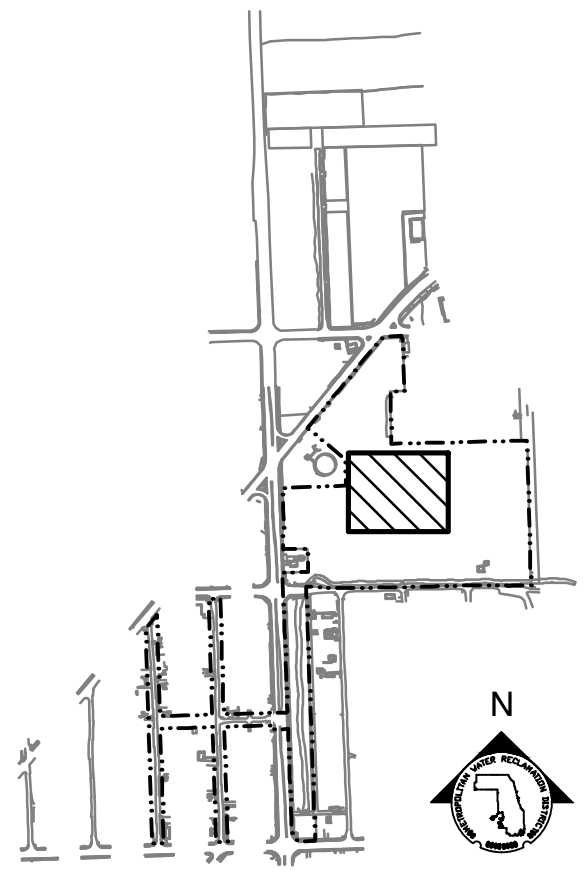
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2. FOR PLANTING SCHEDULES, REFERENCE DRAWINGS LP-222 & LP-223.

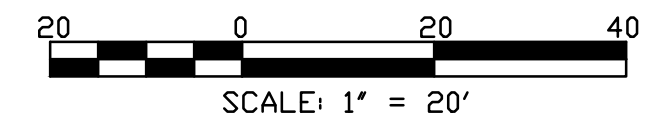
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- W.O.U.S. --- WATERS OF UNITED STATES
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- (600) --- EXISTING CONTOUR
- 600 --- PROPOSED CONTOUR
- GUARDRAIL
- DREDGE CHANNEL
- SIDEWALK, SEE LM SERIES FOR MATERIALS/FINISHES
- RIP RAP
- EMERGENT SHORELINE PLUG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

PARTIAL GROUNDPLANE PLANTING PLAN
 SCALE = 1"=20'



KEY MAP



Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

Designed by: LH
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CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

Sheet Number:
LP-208
 Page Number: 162

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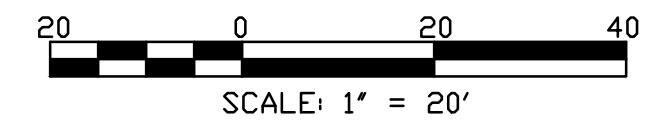
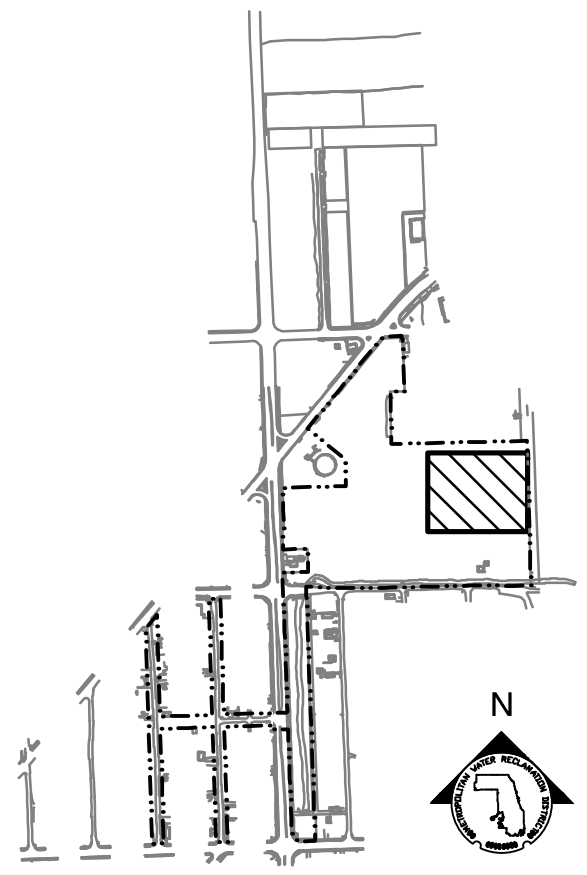
PLANTING NOTES:

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
- o--- GUARDRAIL
- /// DREDGE CHANNEL
- SIDEWALK, SEE LM SERIES FOR MATERIALS/FINISHES
- EMERGENT SHORELINE PLUG MIX
- DRY PRAIRIE SEED MIX
- RIPARIAN WETLAND SEED MIX
- MESIC PRAIRIE SEED MIX
- DRY SAVANNA SEED MIX
- MOWN TURF PATH/LANDING

PARTIAL GROUNDPLANE PLANTING PLAN
 SCALE = 1"=20'



Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

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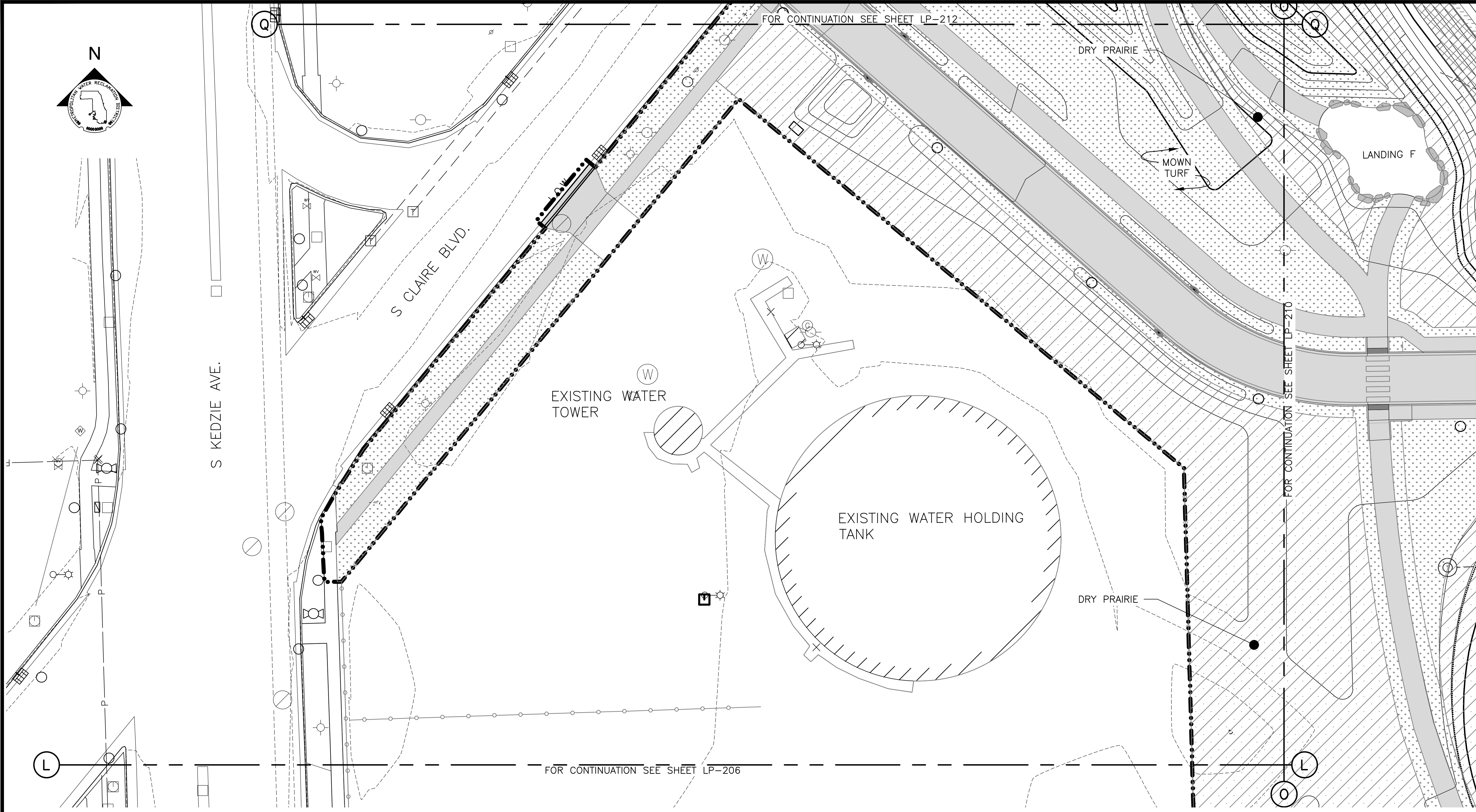
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 CONSULTING ENGINEERS

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 CONSULTING ENGINEERS

LIVING HABITATS

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

Sheet Number:
LP-209
 Page Number: 163



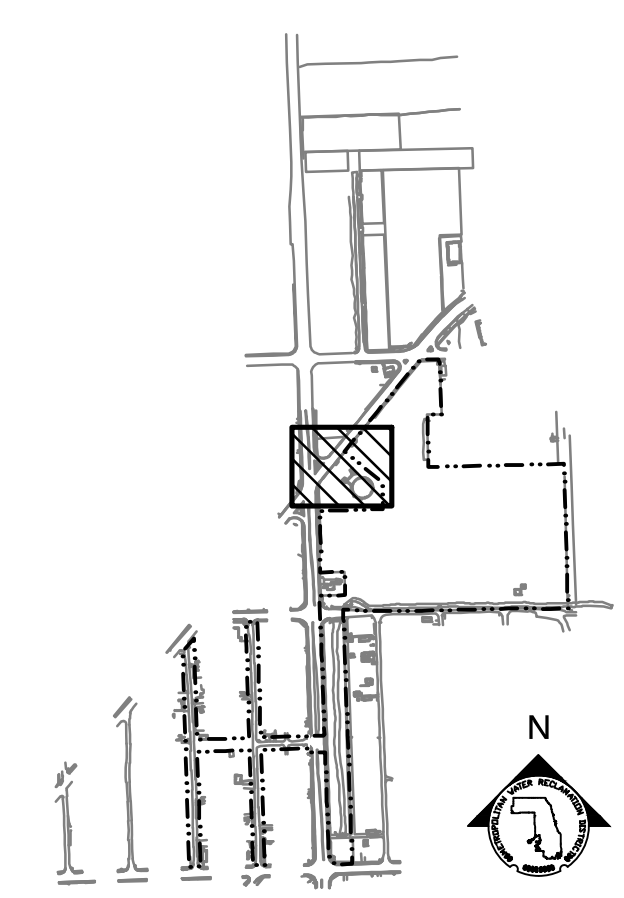
PLANTING NOTES:

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

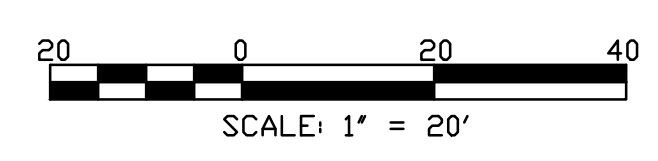
LEGEND:

- L.O.W. --- LIMIT OF WORK
- WOUS --- WATERS OF UNITED STATES
- CHANNEL MEAN ELEV.
- 100 YR FLOOD ELEV.
- (600)--- EXISTING CONTOUR
- 600--- PROPOSED CONTOUR
- o--- 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

PARTIAL GROUNDPLANE PLANTING PLAN
 SCALE = 1"=20'



KEY MAP



Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

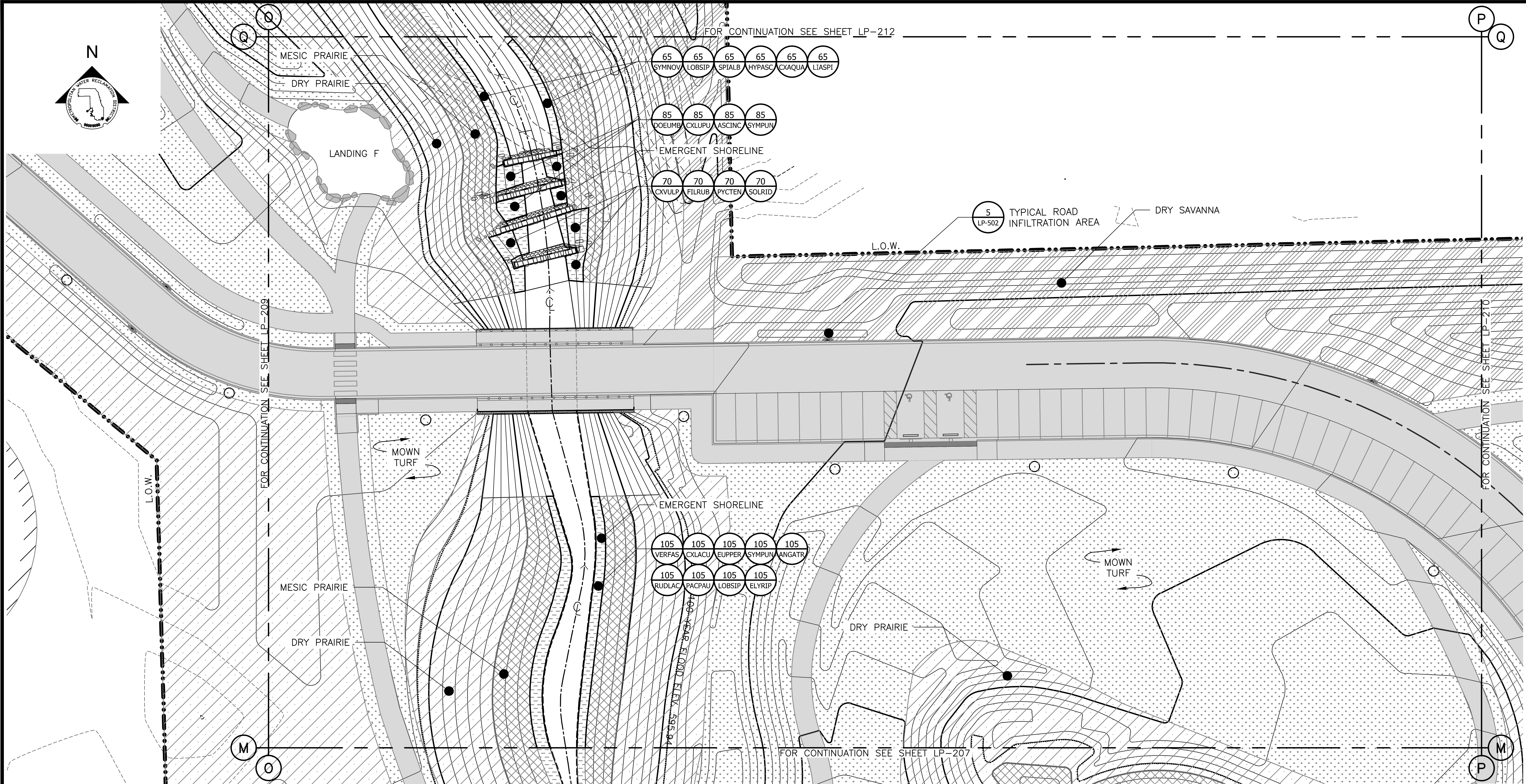
Designed by: LH
 Checked by: LH
 Drawn by: LH
 Reviewed by: LH
 Date: FEB 2024
 Scale: AS SHOWN

DONOHUE
 ACCURATE
 ENGINEERS & ASSOCIATES, INC.
 CONSULTING ENGINEERS

LIVING HABITATS

CONTRACT 14-253-5F
 FLOOD CONTROL PROJECT ON
 MIDLOTHIAN CREEK IN ROBBINS, CSA
 LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

Sheet Number:
LP-210
 Page Number: 164



PLANTING NOTES:

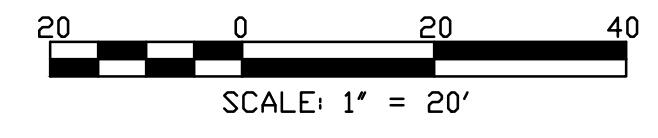
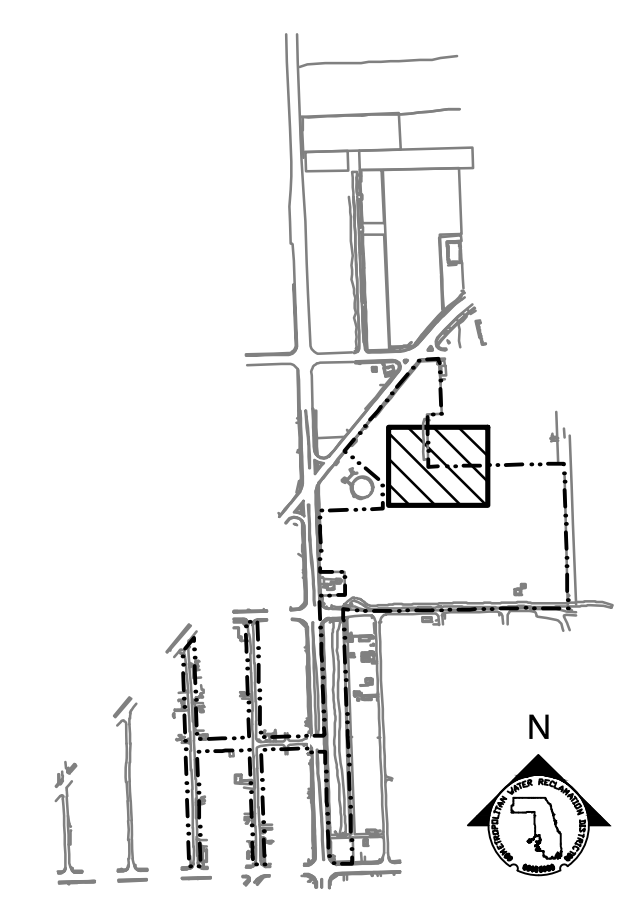
1. REFERENCE NOTES ON LANDSCAPE DRAWING LP-101
2. FOR PLANTING SCHEDULES, REFERENCE DRAWINGS LP-222 & LP-223.

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
- EXPOSED BEDROCK
- EMERGENT SHORELINE PLUG MIX
- DRY PRAIRIE SEED MIX
- RIPARIAN WETLAND SEED MIX
- MESIC PRAIRIE SEED MIX
- DRY SAVANNA SEED MIX
- MOWN TURF PATH/LANDING

PARTIAL GROUNDPLANE PLANTING PLAN
SCALE = 1"=20'

NOTE: SEE UTILITY DRAWINGS FOR CULVERT AND STORM SEWER INFORMATION



Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

CONTRACT 14-253-5F
FLOOD CONTROL PROJECT ON
MIDLOTHIAN CREEK IN ROBBINS, CSA
LITTLE CALUMET RIVER WATERSHED
PARTIAL PLANTING PLAN

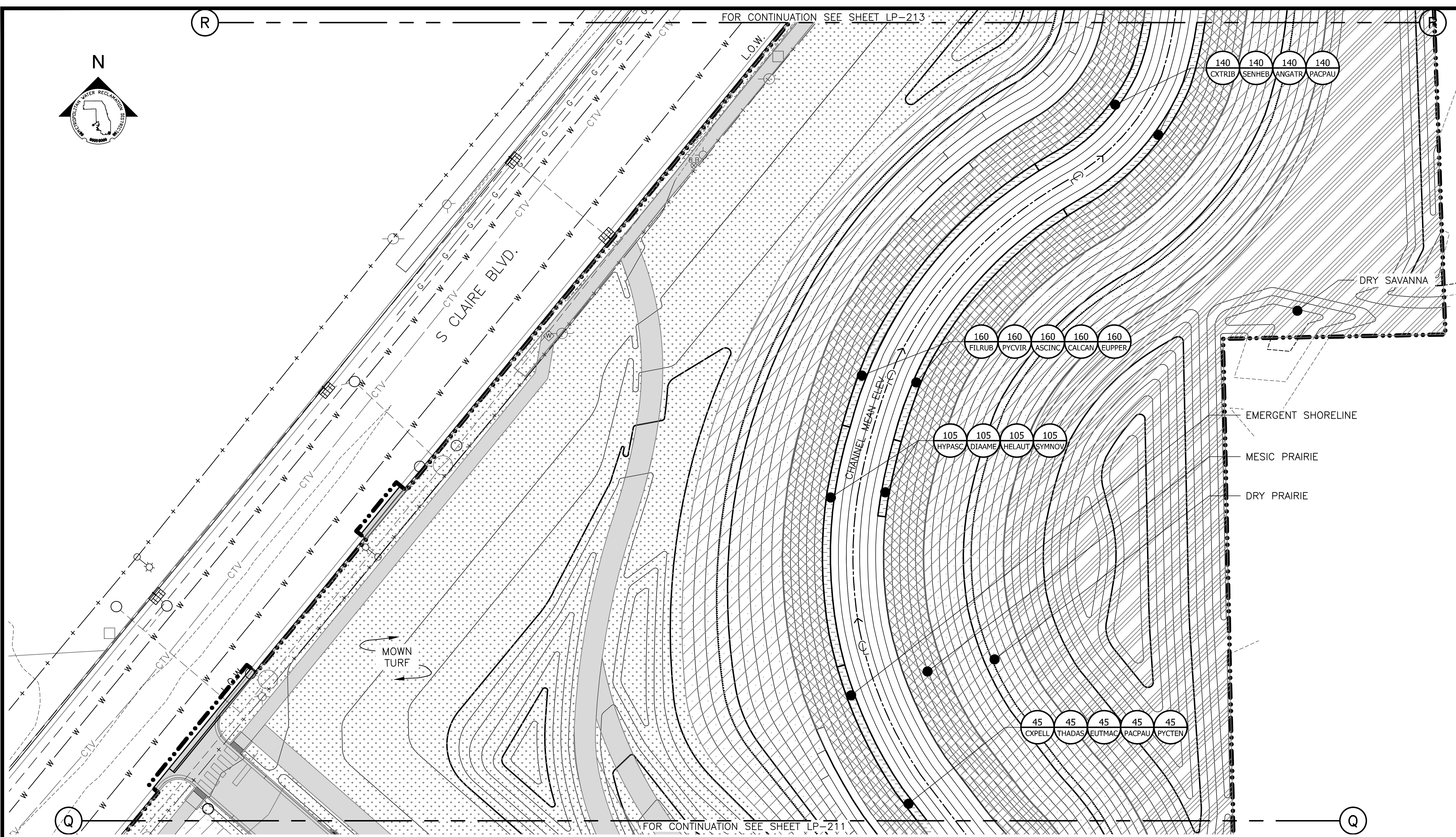
Designed by: LH
Checked by: LH
Drawn by: LH
Reviewed by: LH
Date: FEB 2024
Scale: AS SHOWN

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Sheet Number:
LP-211
Page Number: 165

P:\16-105_Robbins Park - MWRD\04_CAD\14-253-3F\landscape\Sheets\14-253-BF\LP-213.dwg 1/17/2024 4:18 PM
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FOR CONTINUATION SEE SHEET LP-213

FOR CONTINUATION SEE SHEET LP-211

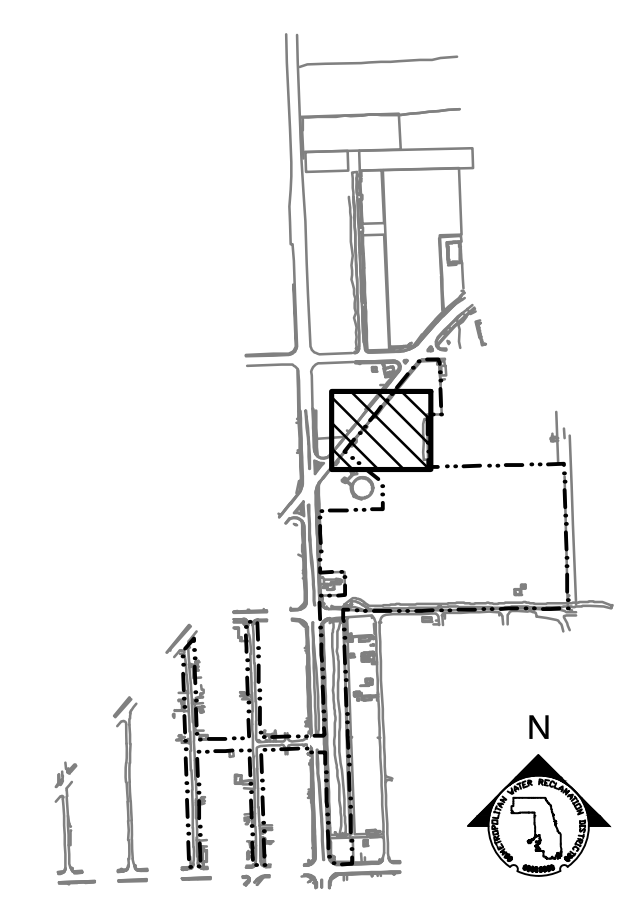
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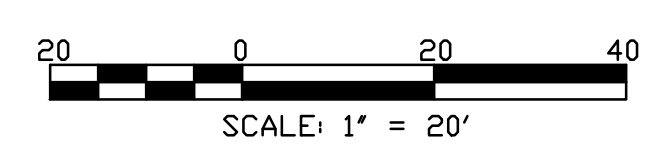
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PARTIAL GROUNDPLANE PLANTING PLAN
 SCALE = 1"=20'



KEY MAP



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METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

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