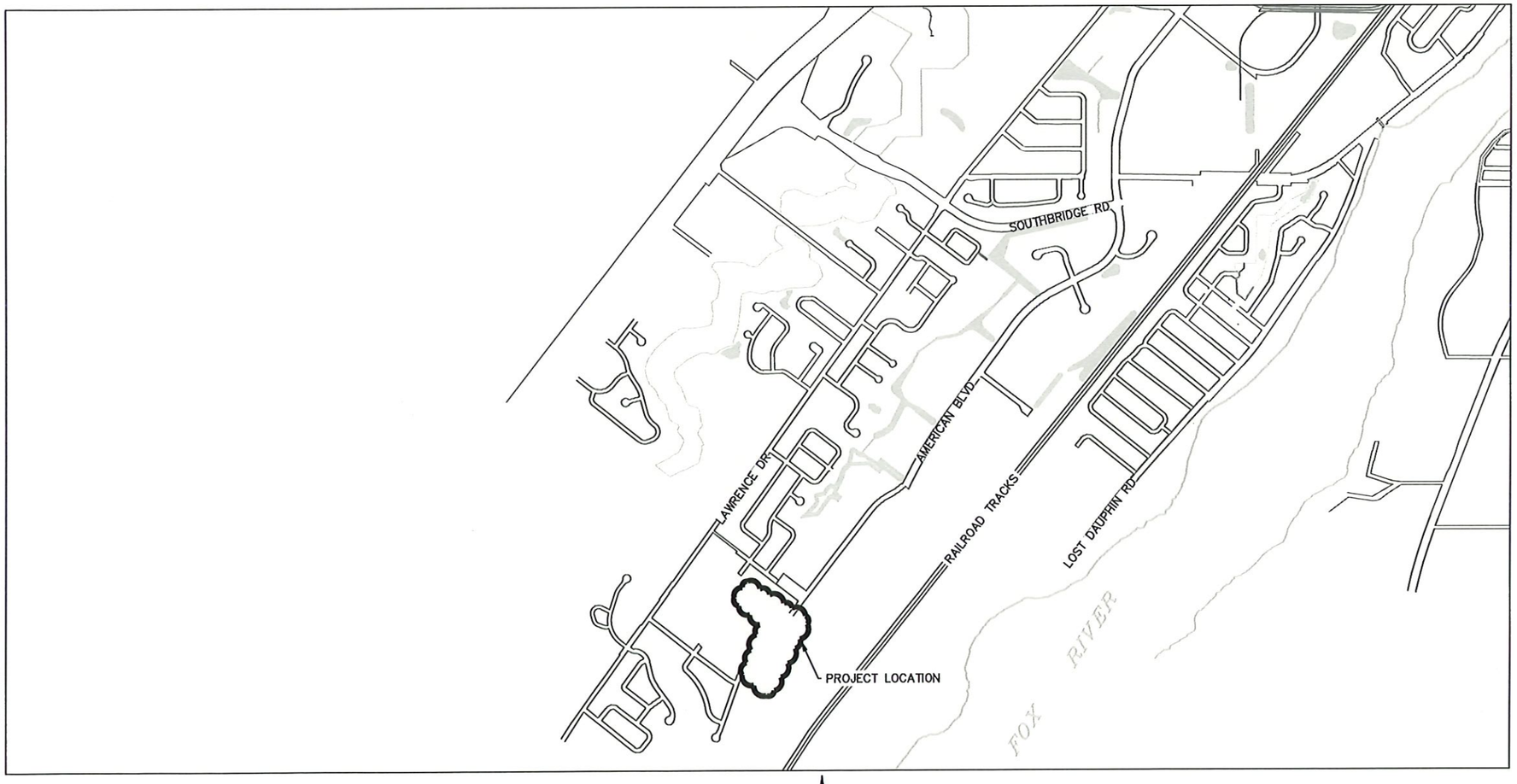
PROJECT 25-04
AMERICAN BOULEVARD UTILITY EXTENSION

CITY OF DE PERE

DE PERE

ENGINEER DIVISION
925 S. SIXTH ST
DE PERE, WI 54115



SITE LOCATION MAP
N.T.S.

-N-

SHEET NO.	DESCRIPTION
G001	TITLE SHEET
G002	STANDARD ABBREVIATION & SYMBOLS
G003 – G004	TYPICAL SECTIONS
C101 – C114	PLAN AND PROFILE SHEETS
C301 – C308	CROSS SECTIONS
C401	EXISTING SITE CONDITIONS
C402 – C403	SURVEY/MAPPING (ALIGNMENT & BENCHMARKS)
C404	INTERSECTION GRADES
C405 – C409	DETENTION POND AND BERM GRADING PLANS
C410	EROSION CONTROL MAP
C411 – C415	SITE GRADING AND RESTORATION PLANS
C501 – C502	PROJECT AND CONSTRUCTION DETAILS

CITY OF DE PERE
BOARD OF PUBLIC WORKS

12/19/2025 — DATE — E. P. Rakers — CITY ENGINEER

12/22/25 — DATE — CITY MANAGER

STAMPS:

WISCONSIN
ERIC P. RAKERS
E-30929
GREEN BAY, WI
PROFESSIONAL ENGINEER
12/19/2025

LIST OF STANDARD ABBREVIATIONS

ADT	AVERAGE DAILY TRAFFIC
AGGR	AGGREGATE
AH	AHEAD
ASPH	ASPHALT
AVE	AVENUE
B/B	BACK TO BACK
BARR	BARRICADE
BC	BACK OF CURB
BK	BACK
BL	BASELINE
BLVD	BOULEVARD
BLDG	BUILDING
BM	BENCHMARK
BOW	BACK OF SIDEWALK
BSMT	BASEMENT
C	CUT
C&G	CURB AND GUTTER
C/C	CENTER TO CENTER
CABC	CRUSHED AGGREGATE BASE COURSE
CB	CATCH BASIN
CE	CONSTRUCTION ENTRANCE
CI	CAST IRON PIPE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CNTY	COUNTY
CO	CLEANOUT
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONSTR JT	CONSTRUCTION JOINT
CORP	CORPORATION
CP	CONTROL POINT
CTH	COUNTY TRUNK HIGHWAY
CTRL JT	CONTROL JOINT
CTV	CABLE TV
CY	CUBIC YARD
D	DEPTH
DIA	DIAMETER
DI	DUCTILE IRON PIPE
DISCH	DISCHARGE
DW	DRIVEWAY
E	EAST (SEE ELEC BELOW)
EA	EACH
EB	EASTBOUND
EBS	EXCAVATION BELOW SUBGRADE
EL	ELEVATION
ELEC	ELECTRIC (E WHEN USED IN LINE STYLE)
EMB	EMBANKMENT
ENTR	ENTRANCE
EP	EDGE OF PAVEMENT
EW	ENDWALL
EXC	EXCAVATION
EXIST	EXISTING
F	FILL
F/F	FACE TO FACE
FDN	FOUNDATION
FE	FIELD ENTRANCE
FERT	FERTILIZER
FIN GR	FINISHED GRADE
FL	FLOWLINE
FO	FIBER OPTIC
FOW	FRONT OF SIDEWALK
FT	FOOT
FTG	FOOTING
G	GAS
GV	GAS VALVE
GW	GUY WIRE
HDPE	HIGH DENSITY POLYETHYLENE
HR	HANDICAP RAMP
HSE	HOUSE
HT	HEIGHT
HYD	HYDRANT
I	INTERSECTION ANGLE
ID	INSIDE DIAMETER
IN	INCH
INL	INLET
INTERS	INTERSECTION
INV	INVERT
IP	IRON PIPE OR PIN
L	LENGTH (OF CURVE)
LC	LONG CHORD OF CURVE
LP	LIGHTPOLE
LS	LIFT STATION OR LUMP SUM
LT	LEFT
MAINT	MAINTENANCE
MATL	MATERIAL
MB	MAILBOX
MH	MANHOLE
MP	MARKER POST
N	NORTH
NB	NORTHBOUND
NC	NORMAL CROWN
NE	NORTHEAST
NO	NUMBER
NTS	NOT TO SCALE
NW	NORTHWEST
OD	OUTSIDE DIAMETER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PCC	PORTLAND CEMENT CONCRETE
PED	PEDESTAL
PLE	PERMANENT LIMITED EASEMENT
PVMT	PAVEMENT
PE	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
POC	POINT OF CURVE
POT	POINT ON TANGENT
PP	POLYETHYLENE
PRC	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED
PRZ	PROTECTIVE ROOT ZONE
PSI	POUND PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R	RANGE OR RADIUS
RCP	REINFORCED CONCRETE PIPE
REBAR	REINFORCEMENT BAR
REL	RELOCATE
REM	REMAINING
REQD	REQUIRED
RL	REFERENCE LINE
ROW	RIGHT OF WAY
RP	REFERENCE POINT
RR	RAILROAD
RT	RIGHT
RW	RETAINING WALL
S	SOUTH
SALV	SALVAGE
SAN	SANITARY
SB	SOUTHBOUND
SDWK	SIDEWALK
SE	SOUTHEAST
SF	SQUARE FEET
SHLDR	SHOULDER
SY	SQUARE YARD
SS	SANITARY SEWER
ST	STREET (ST WHEN USED FOR STORM SEWER LINE)
STA	STATION
STD	STANDARD
STH	STATE HIGHWAY TRUNK
STM	STORM
STRUCT	STRUCTURE OR STRUCTURAL
SW	SOUTHWEST
TAN	TANGENT
T	TELEPHONE LINE
TEL	TELEPHONE
TEMP	TEMPORARY
TLE	TEMPORARY LIMITED EASEMENT
TOC	TOP OF CURB
TOW	TOP OF WATER
TRANS	TRANSITION
TYP	TYPICAL
UG	UNDERGROUND
USH	US HIGHWAY
VC	VERTICAL CURVE
VERT	VERTICAL
VOL	VOLUME
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPRC	VERTICAL POINT OF REVERSE CURVE
VPT	VERTICAL POINT OF TANGENCY
W	WEST (W WHEN USED FOR WATER LINE)
WB	WESTBOUND
WM	WATERMAIN
WSO	WATER SHUTOFF VALVE
WV	WATER VALVE
YD	YARD

MAPPING & TOPOGRAPHY SYMBOLOGY

DESCRIPTION	SYMBOL EXISTING	SYMBOL PROPOSED
BENCHMARK		
BUSH		
CATCH BASIN/INLET		
CABLE TV BOX		
CONTROL POINT		
DETECTABLE WARNING FIELD		
ELECTRICAL BOX		
ENDWALL		
EROSION CONTROL – INLET		
FIBER OPTIC PEDESTAL		
FIELD INLET		
GAS VALVE		
GUY WIRE		
HYDRANT		
IRON PIPE		
LIGHT POLE		
MAILBOX		
MANHOLE ELECTRIC		
MANHOLE FIBER OPTIC		
MANHOLE SANITARY		
MANHOLE STORM		
MONITORING WELL		
POWER POLE		
SIGN		
SOIL BORING		(B-##)
STUMP		
TELEPHONE MANHOLE		
TELEPHONE PEDESTAL		
TREE		
WATER REDUCER		
WATER SERVICE VALVE		
WATER VALVE (BUTTERFLY)		
WATER VALVE (GATE)		

GENERAL CONSTRUCTION NOTES:

1. ALL ELEVATIONS ARE REFERENCED TO NAVD 88.
2. THE WORK UNDER THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE CITY OF DE PERE, CURRENT CONSTRUCTION SPECIFICATIONS AND THESE SPECIAL PROVISIONS AND PLANS, AND THE LATEST ADDITION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION SPECIFICATIONS, LATEST EDITION, WHERE REFERENCED IN THE CITY SPECIFICATIONS.
3. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL CONFIRM TO THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES CONSTRUCTION SITE EROSION CONTROL AND TECHNICAL STANDARDS.
4. EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES. WHETHER SHOWN OR NOT, FROM THE OWNERS OF THE RESPECTIVE UTILITIES. ALL UTILITIES OWNERS SHALL BE NOTIFIED BY THE CONTRACTOR 72 HOURS PRIOR TO EXCAVATION.

MAPPING & TOPOGRAPHY SYMBOLOGY

DESCRIPTION	SYMBOL
PLAN	
EXISTING SANITARY SEWER LINE	(SIZE AND MATERIAL) SAN
PROPOSED SANITARY SEWER LINE	100'–8" PVC SAN SAN
EXISTING STORM SEWER LINE	(SIZE AND MATERIAL) ST
PROPOSED STORM SEWER LINE	100'–8" PVC STM ST
EXISTING WATER MAIN LINE	(SIZE AND MATERIAL) W
PROPOSED WATER MAIN LINE	100'–8" PVC WM (TEE–BEND)
EXISTING ELECTRICAL LINE	E
EXISTING GAS MAIN LINE	G
EXISTING TELEPHONE LINE	T
EXISTING CABLE TV LINE	TV
EXISTING SANITARY LATERAL	SAN
EXISTING WATER SERVICE	W
RIGHT OF WAY	ROW
PROPERTY LINE	PL
EASEMENT	ESM
LANDSCAPE FENCE	
SILT FENCE EROSION CONTROL	
EXISTING FIBER OPTIC	FO
EXISTING MAJOR CONTOUR	615
EXISTING MINOR CONTOUR	612
PROPOSED MAJOR CONTOUR	615
PROPOSED MINOR CONTOUR	612
EXISTING OVERHEAD UTILITY	OH OH
PROFILE	
EXISTING SANITARY SEWER LINE	100'–8" MATERIAL 0.40%
PROPOSED SANITARY SEWER LINE	100'–8" PVC SAN 0.40%
EXISTING STORM SEWER LINE	100'–8" MATERIAL 0.40%
PROPOSED STORM SEWER LINE	100'–8" PVC STM 1.0%
EXISTING WATER MAIN LINE	(SIZE AND MATERIAL)
PROPOSED WATER MAIN LINE	PROPOSED 8" PVC WM

PATCH SYMBOLS

ASPHALTIC CONCRETE PAVEMENT

CRUSHED AGGREGATE BASE COURSE

PORTLAND CEMENT CONCRETE

DE PERE

CITY OF DE PERE

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115

OFFICE: 920-339-4061 EMAIL: DPPUBWRKS@DEPEREWI.GOV

STANDARD ABBREVIATIONS AND SYMBOLS

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT 25–04

	BY	DATE
SURVEYED		
DRAWN	MJT	12–2024
DESIGNED		
CHECKED		

REVISIONS / ISSUES

NO.	DATE	BY	REMARKS

PAGE NO. G002

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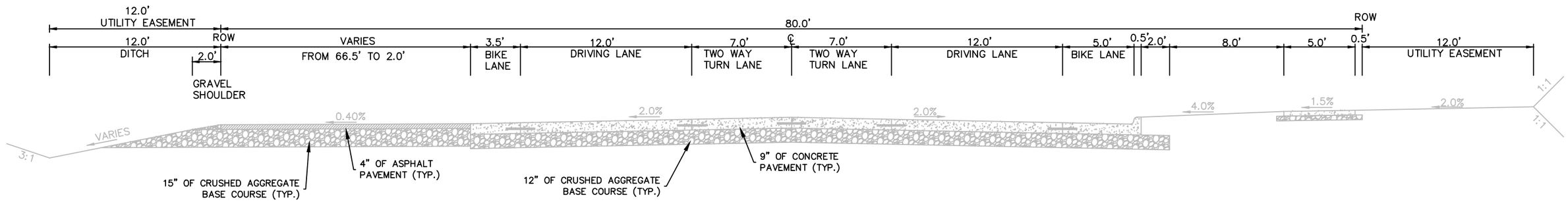
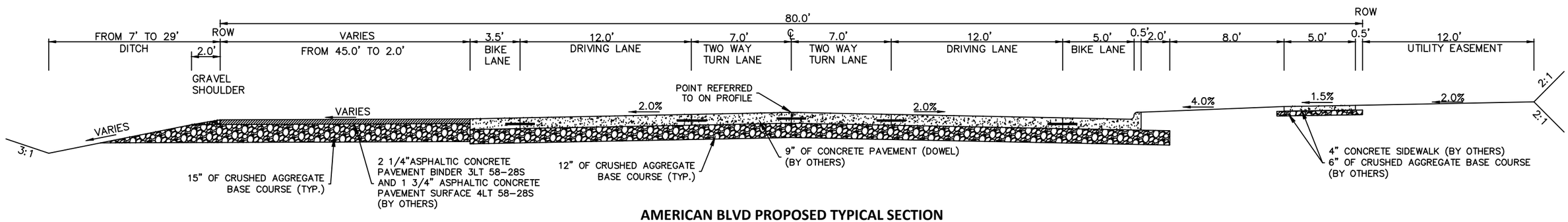
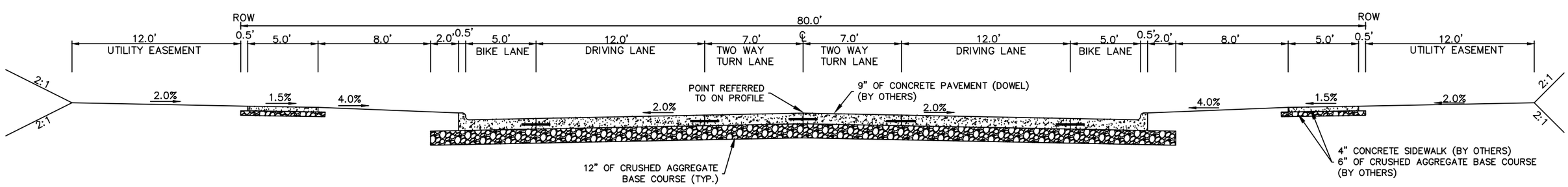


AMERICAN BLVD EXISTING TYPICAL SECTION



AMERICAN BLVD PROPOSED TYPICAL SECTION
STA 2+44 - STA 3+66



AMERICAN BLVD PROPOSED TYPICAL SECTION
STA 3+66 - STA 11+10 & STA 11+75 - 14+46

DE PERE

CITY OF DE PERE
ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115
OFFICE: 920-339-4061 EMAIL: DPPUBWRKS@DEPEREWI.GOV

AMERICAN BOULEVARD
TYPICAL SECTIONS

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT 25-04

	BY	DATE
SURVEYED		
DRAWN	MJT	09-2025
DESIGNED		
CHECKED	EPR	11-2025

REVISIONS / ISSUES

NO.	DATE	BY	REMARKS

PAGE NO. **G003**

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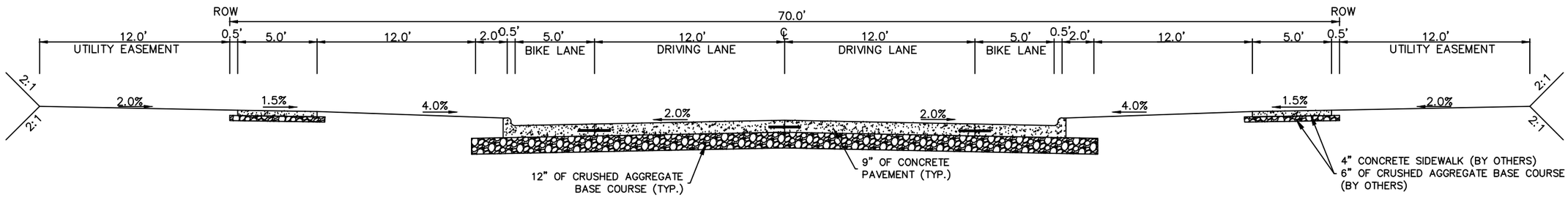
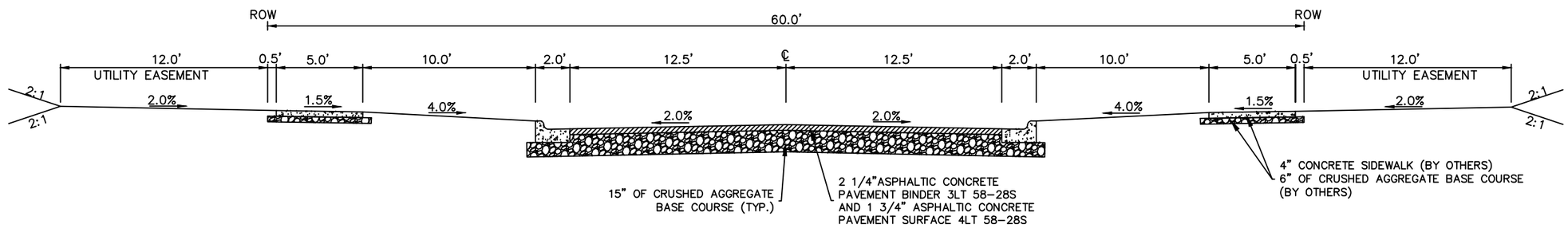


FUTURE STREET A EAST OF AMERICAN PROPOSED TYPICAL SECTION



FUTURE STREET A WEST OF AMERICAN BLVD PROPOSED TYPICAL SECTION

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ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115

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AMERICAN BOULEVARD

TYPICAL SECTIONS

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT 25-04

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PAGE NO. **G004**

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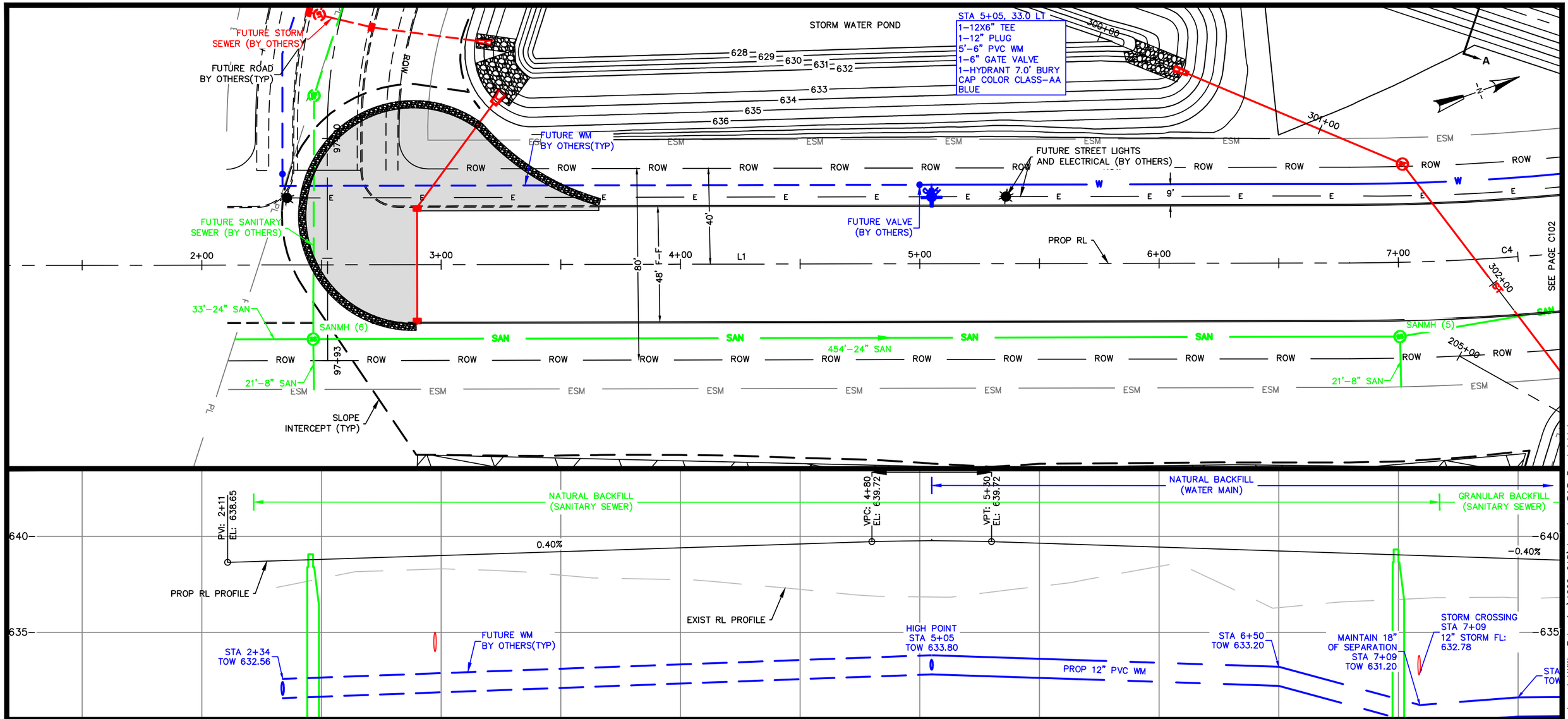
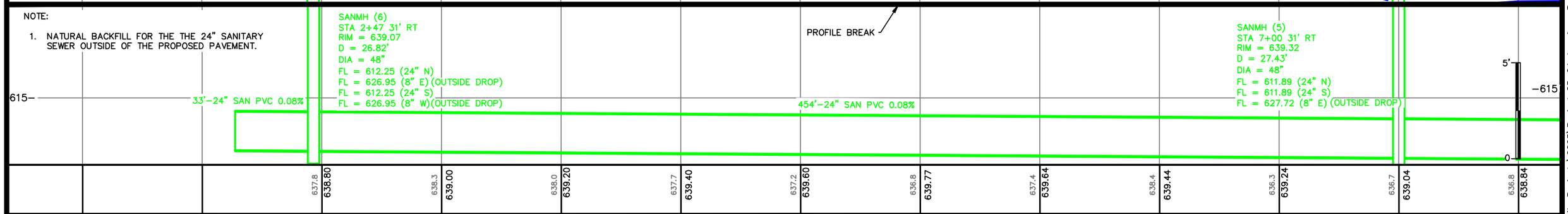


NOTE:

1. NATURAL BACKFILL FOR THE THE 24" SANITARY SEWER OUTSIDE OF THE PROPOSED PAVEMENT.



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ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115

OFFICE: 920-339-4061 EMAIL: DPPUBWRKS@DEPEREWI.GOV

AMERICAN BOULEVARD

STREET C TO 500' N/O STREET C

SANITARY SEWER AND WATER MAIN

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT # 25-04

	BY	DATE
SURVEYED	MJT	04-2024
DRAWN	KAD	12-2025
DESIGNED	EPR	06-2024
CHECKED	EPR	12-2025

REVISIONS / ISSUES

NO.	DATE	BY	REMARKS

PAGE NO. C101

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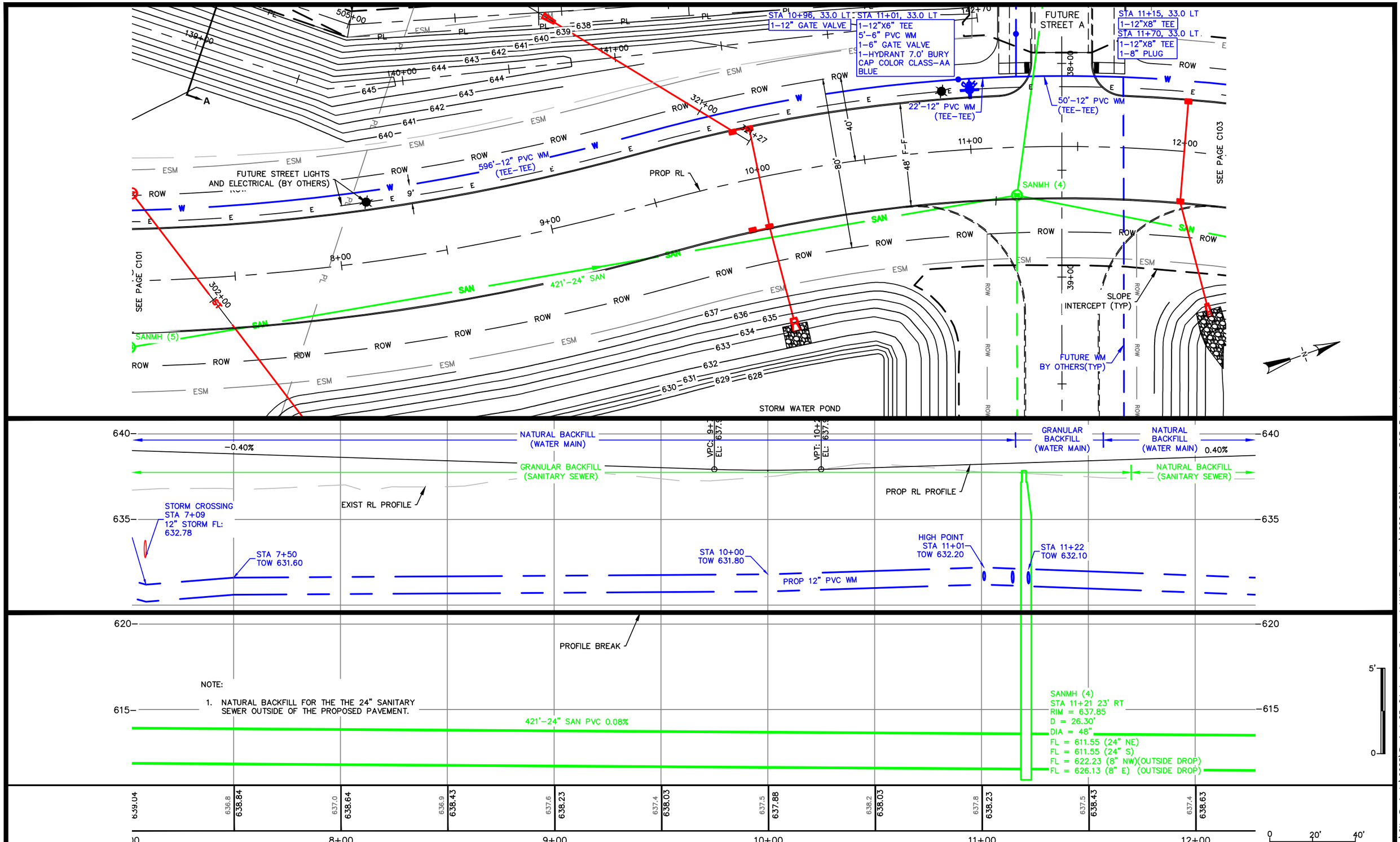

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OFFICE: 920-339-4061 EMAIL: DPPUBWRKS@DEPEREWI.GOV

AMERICAN BOULEVARD

500' N/O STREET C TO 50' N/O STREET A

SANITARY SEWER AND WATERMAIN

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT # 25-04

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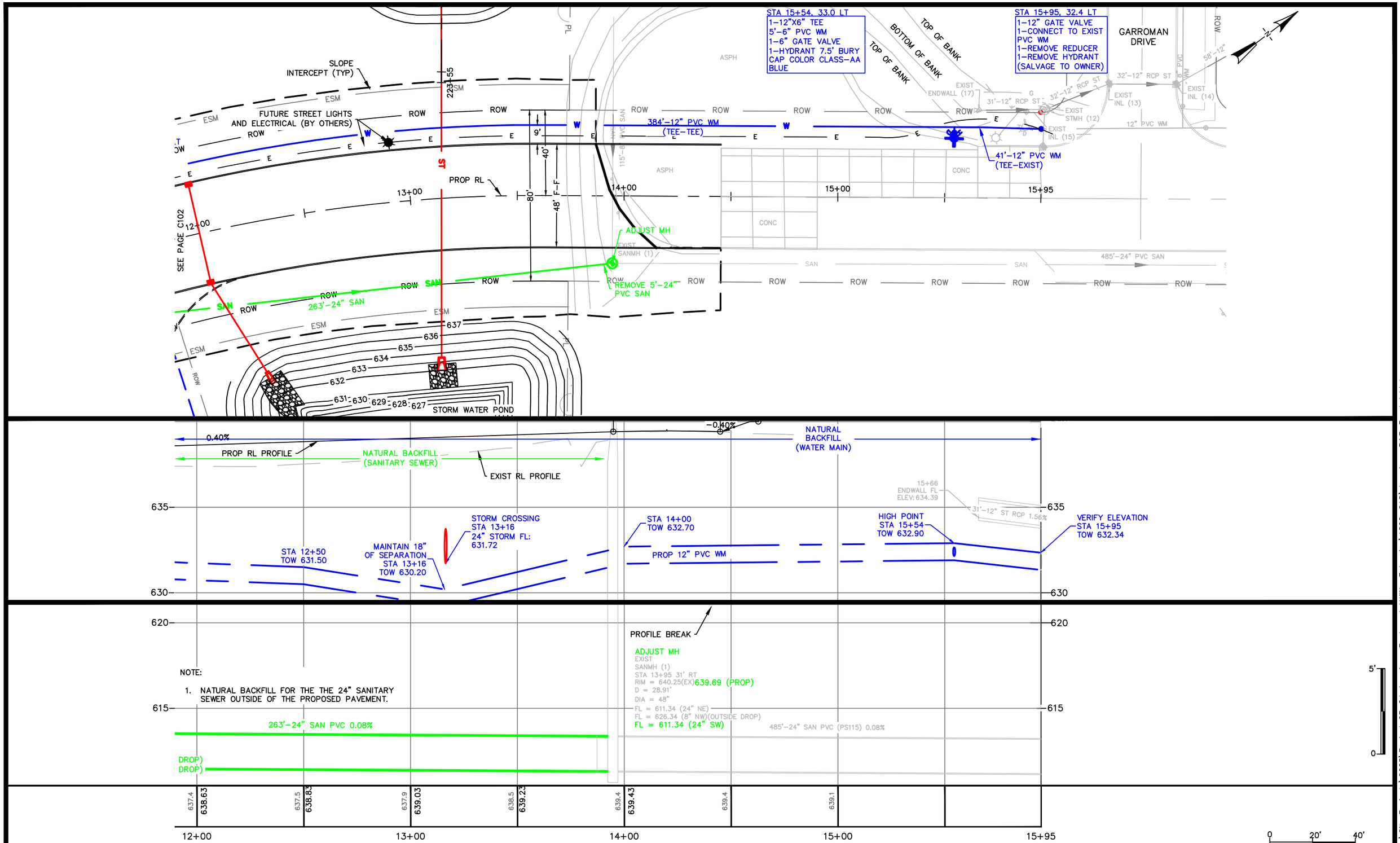

NOTE:

1. NATURAL BACKFILL FOR THE THE 24" SANITARY SEWER OUTSIDE OF THE PROPOSED PAVEMENT.

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CITY OF DE PERE

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115
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AMERICAN BOULEVARD

50' N/O STREET A TO GARROMAN DRIVE
SANITARY SEWER AND WATERMAIN

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

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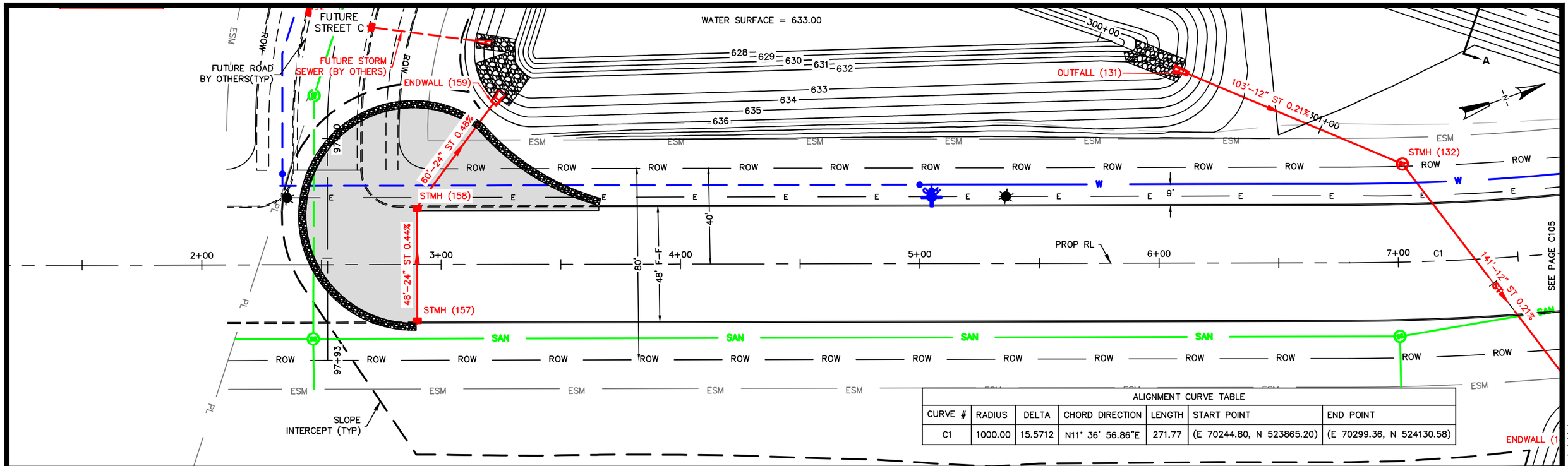
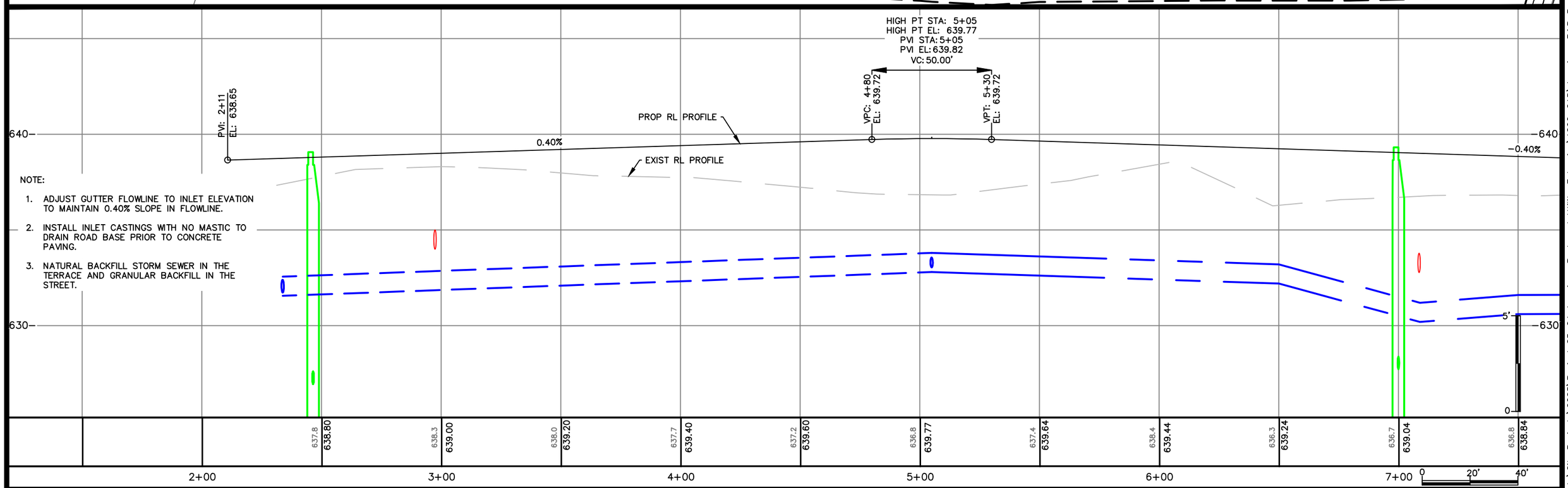


ALIGNMENT CURVE TABLE						
CURVE #	RADIUS	DELTA	CHORD DIRECTION	LENGTH	START POINT	END POINT
C1	1000.00	15.5712	N11° 36' 56.86"E	271.77	(E 70244.80, N 523865.20)	(E 70299.36, N 524130.58)



NOTE:

1. ADJUST GUTTER FLOWLINE TO INLET ELEVATION TO MAINTAIN 0.40% SLOPE IN FLOWLINE.
2. INSTALL INLET CASTINGS WITH NO MASTIC TO DRAIN ROAD BASE PRIOR TO CONCRETE PAVING.
3. NATURAL BACKFILL STORM SEWER IN THE TERRACE AND GRANULAR BACKFILL IN THE STREET.

DE PERE

CITY OF DE PERE

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AMERICAN BOULEVARD

STREET C TO 500' N/O STREET C

STORM SEWER AND STREET

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT # 25-04

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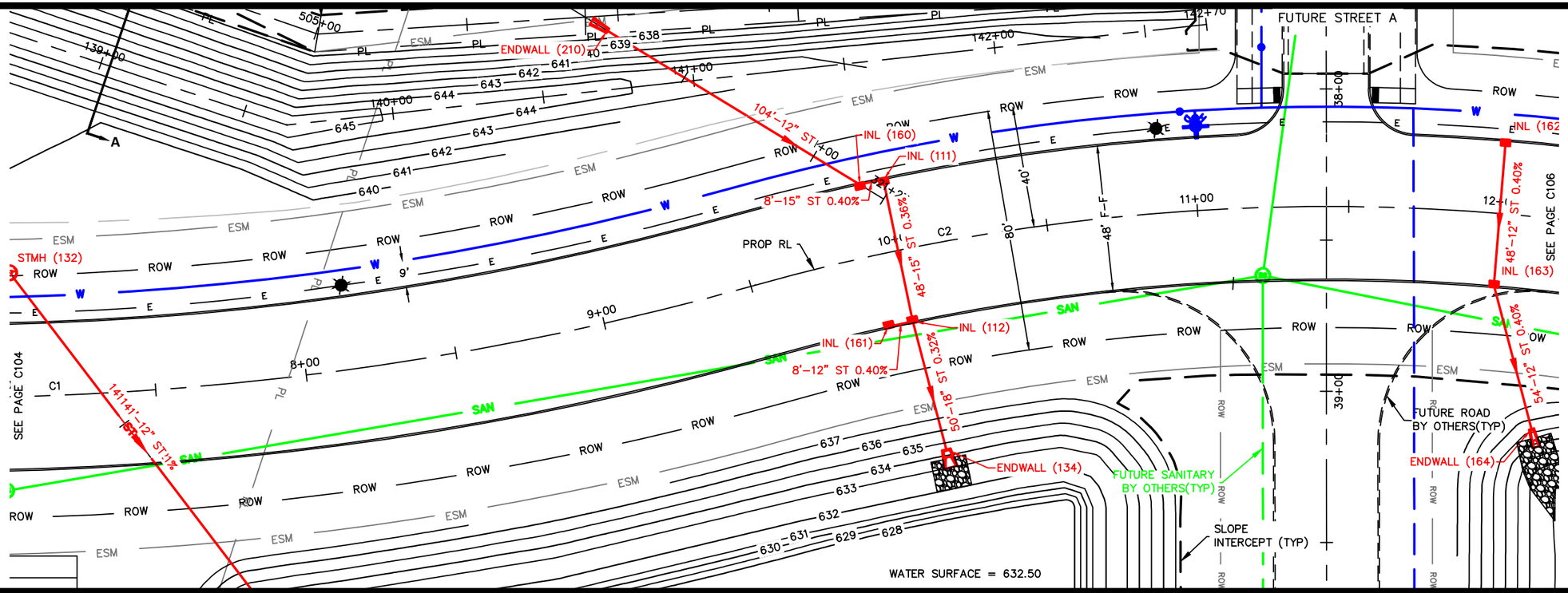
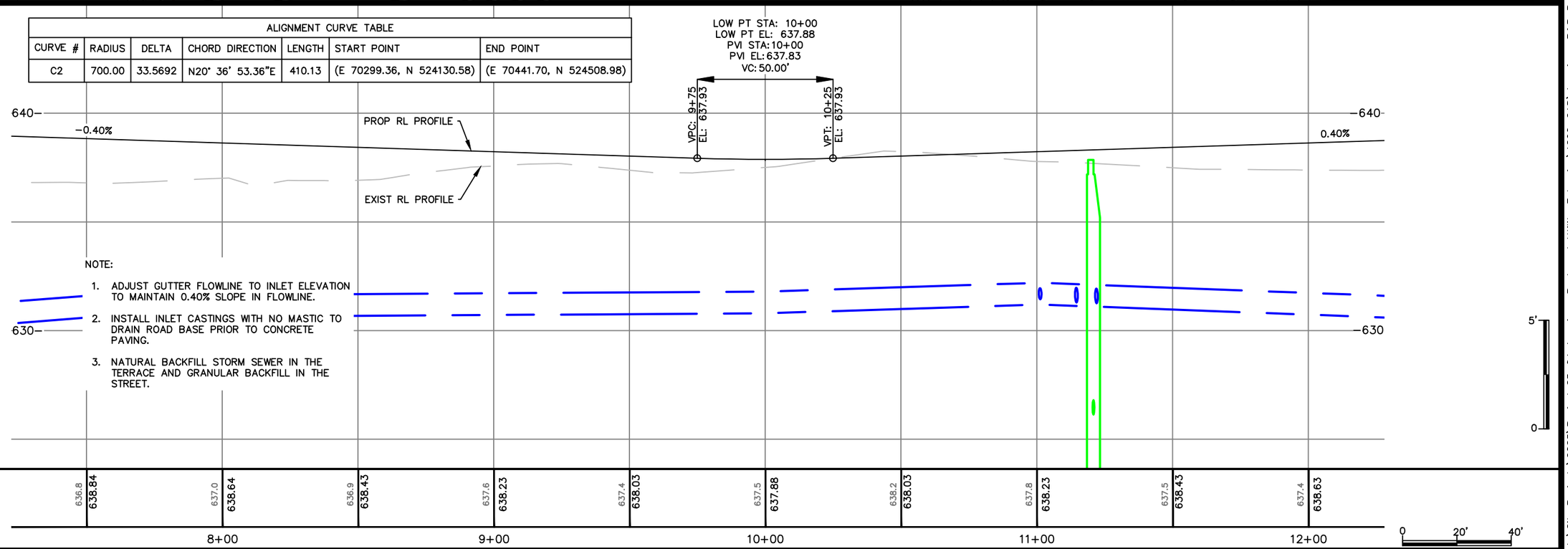


ALIGNMENT CURVE TABLE						
CURVE #	RADIUS	DELTA	CHORD DIRECTION	LENGTH	START POINT	END POINT
C2	700.00	33.5692	N20° 36' 53.36"E	410.13	(E 70299.36, N 524130.58)	(E 70441.70, N 524508.98)



NOTE:

1. ADJUST GUTTER FLOWLINE TO INLET ELEVATION TO MAINTAIN 0.40% SLOPE IN FLOWLINE.
2. INSTALL INLET CASTINGS WITH NO MASTIC TO DRAIN ROAD BASE PRIOR TO CONCRETE PAVING.
3. NATURAL BACKFILL STORM SEWER IN THE TERRACE AND GRANULAR BACKFILL IN THE STREET.

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OFFICE: 920-339-4061 EMAIL: DPPUBWRKS@DEPEREWI.GOV

AMERICAN BOULEVARD

500' N/O STREET C TO 50' N/O STREET A

STORM SEWER AND STREET

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT # 25-04

	BY	DATE
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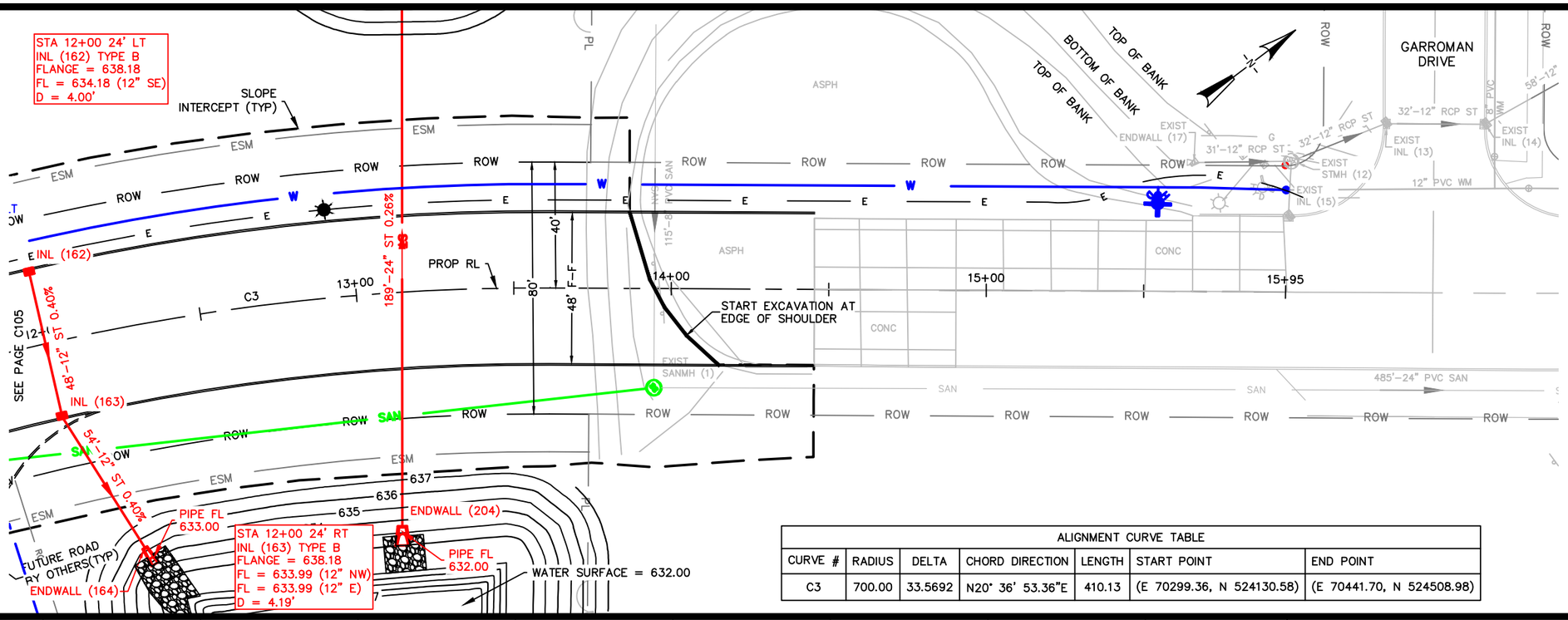

ALIGNMENT CURVE TABLE						
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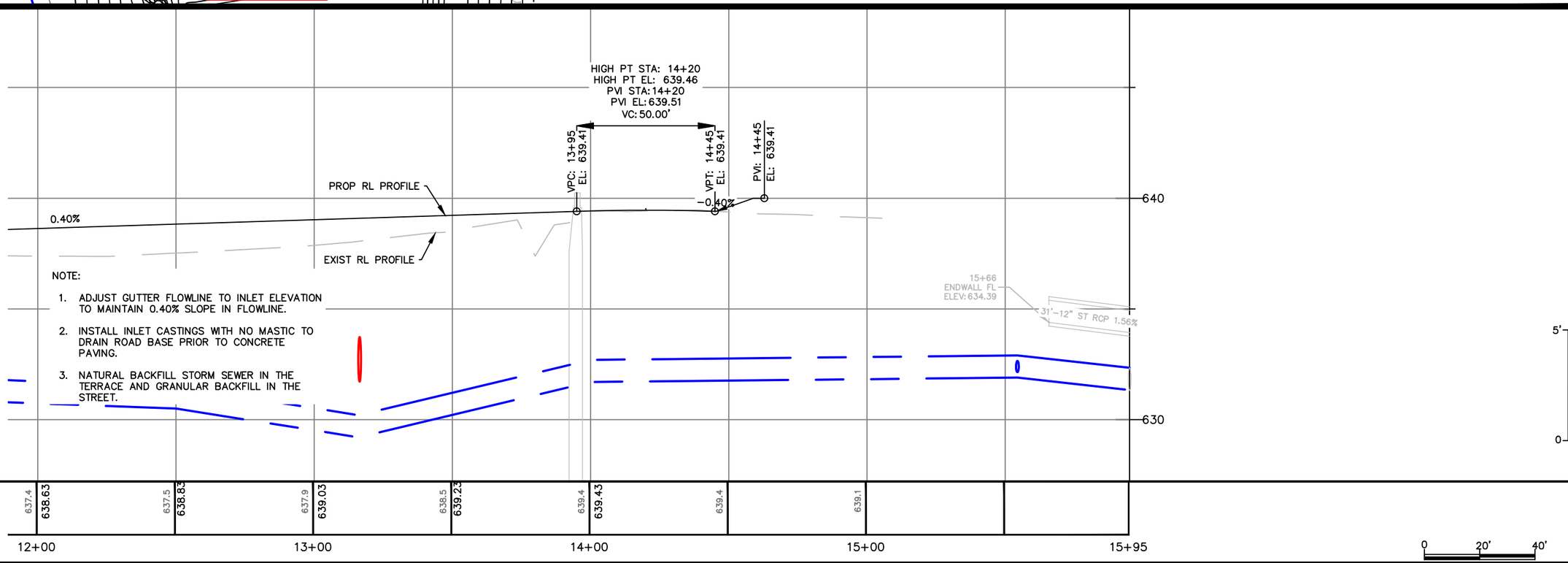
C3	700.00	33.5692	N20° 36' 53.36"E	410.13	(E 70299.36, N 524130.58)	(E 70441.70, N 524508.98)



NOTE:

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2. INSTALL INLET CASTINGS WITH NO MASTIC TO DRAIN ROAD BASE PRIOR TO CONCRETE PAVING.
3. NATURAL BACKFILL STORM SEWER IN THE TERRACE AND GRANULAR BACKFILL IN THE STREET.

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ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115

OFFICE: 920-339-4061 EMAIL: DPPUBWRKS@DEPEREWI.GOV

AMERICAN BOULEVARD

50' N/O STREET A TO 250' N/O STREET A

STORM SEWER AND STREET

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

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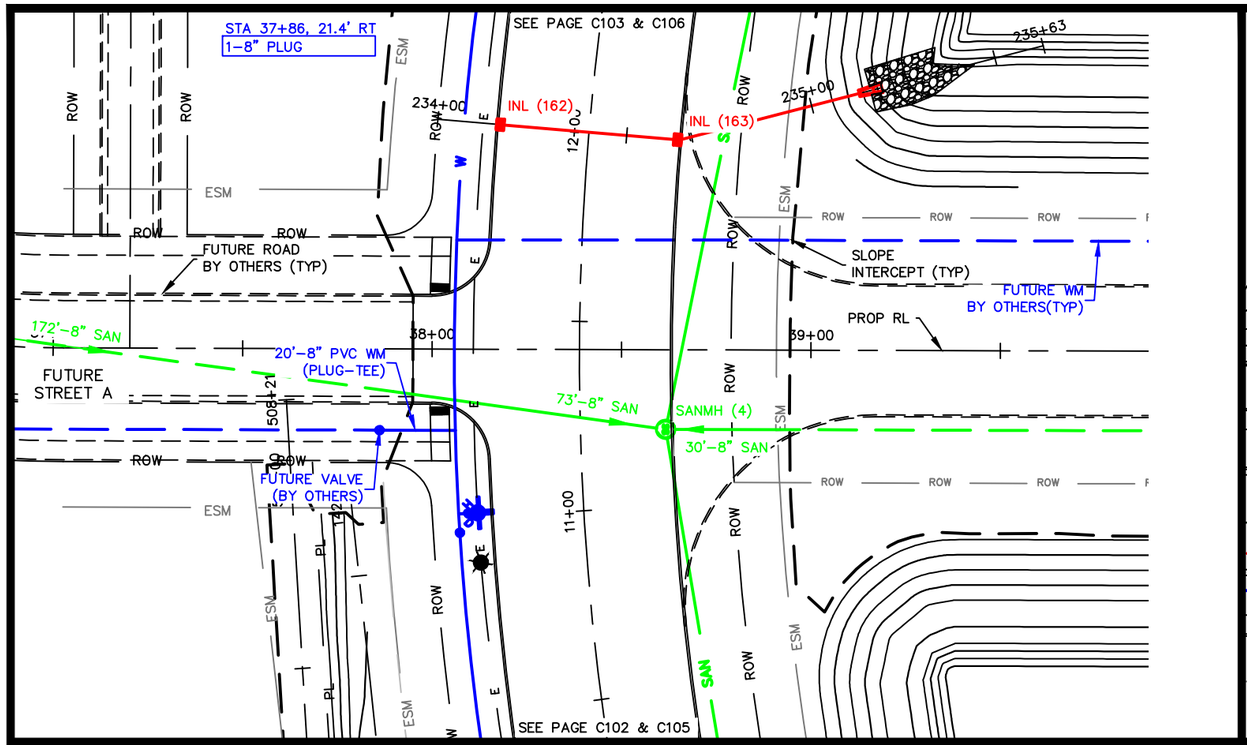

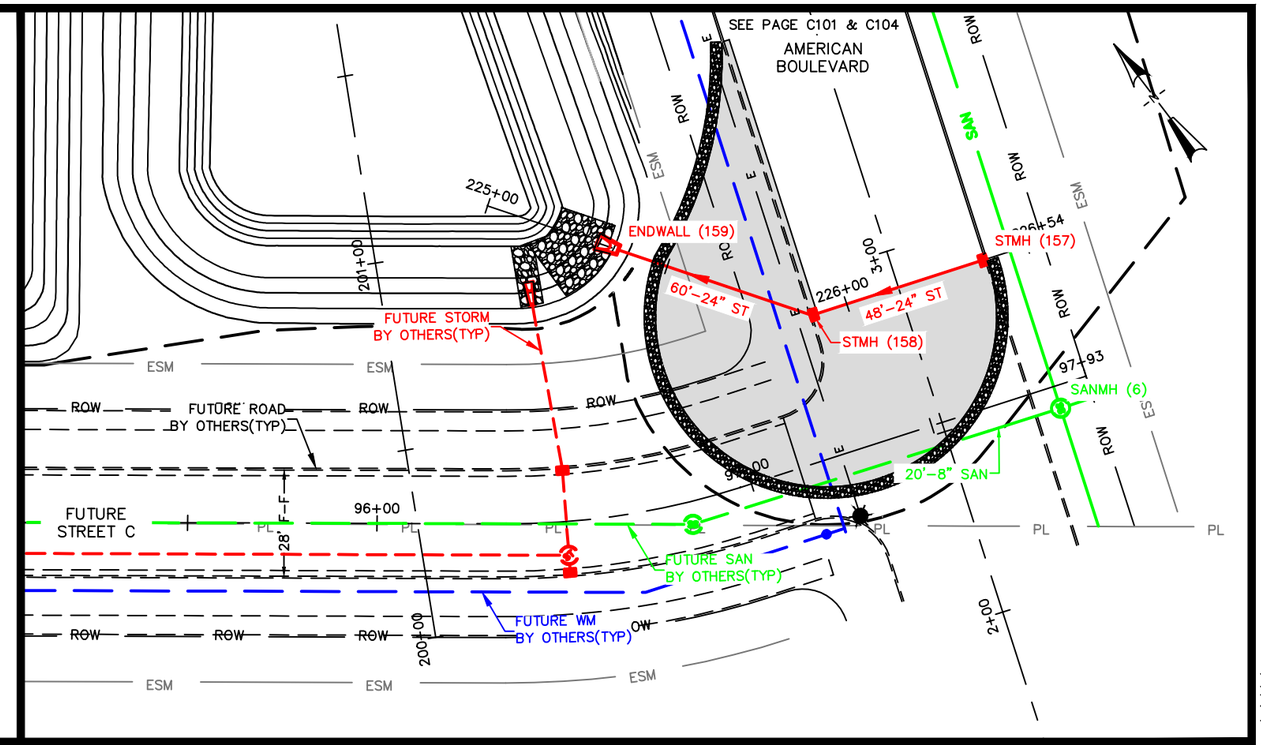

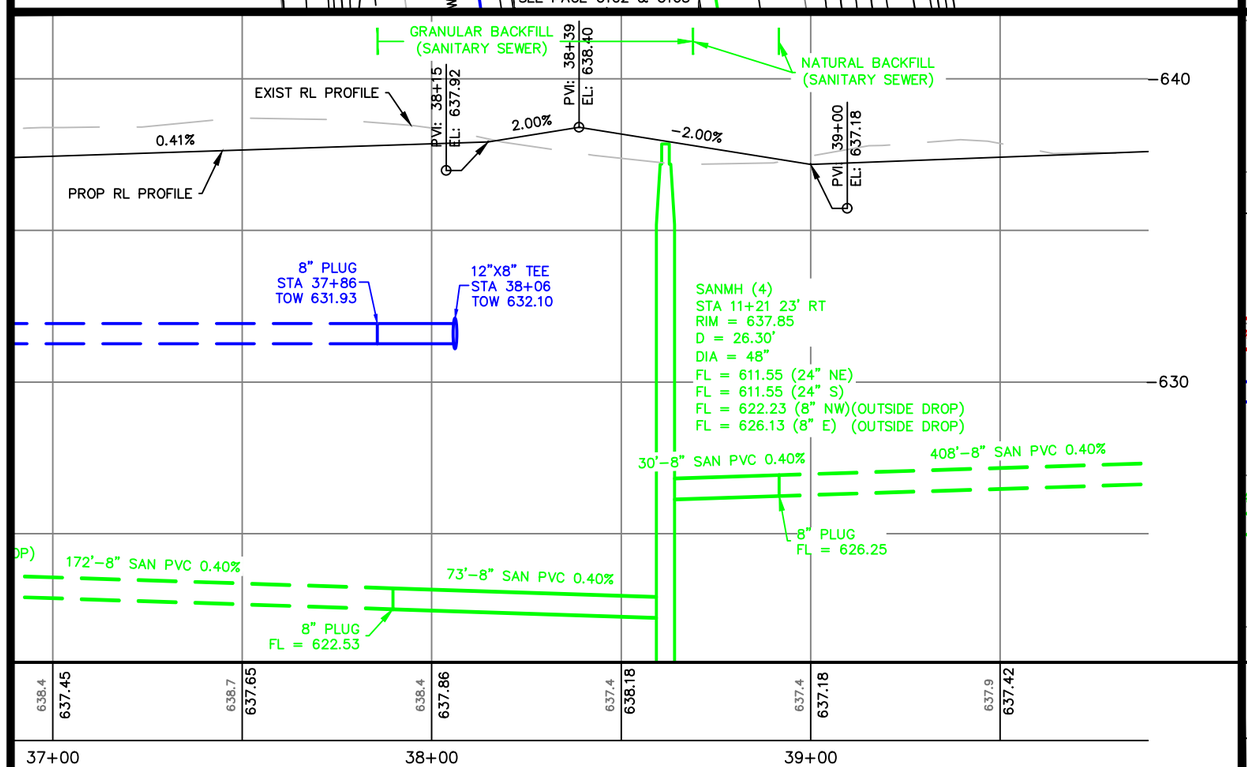

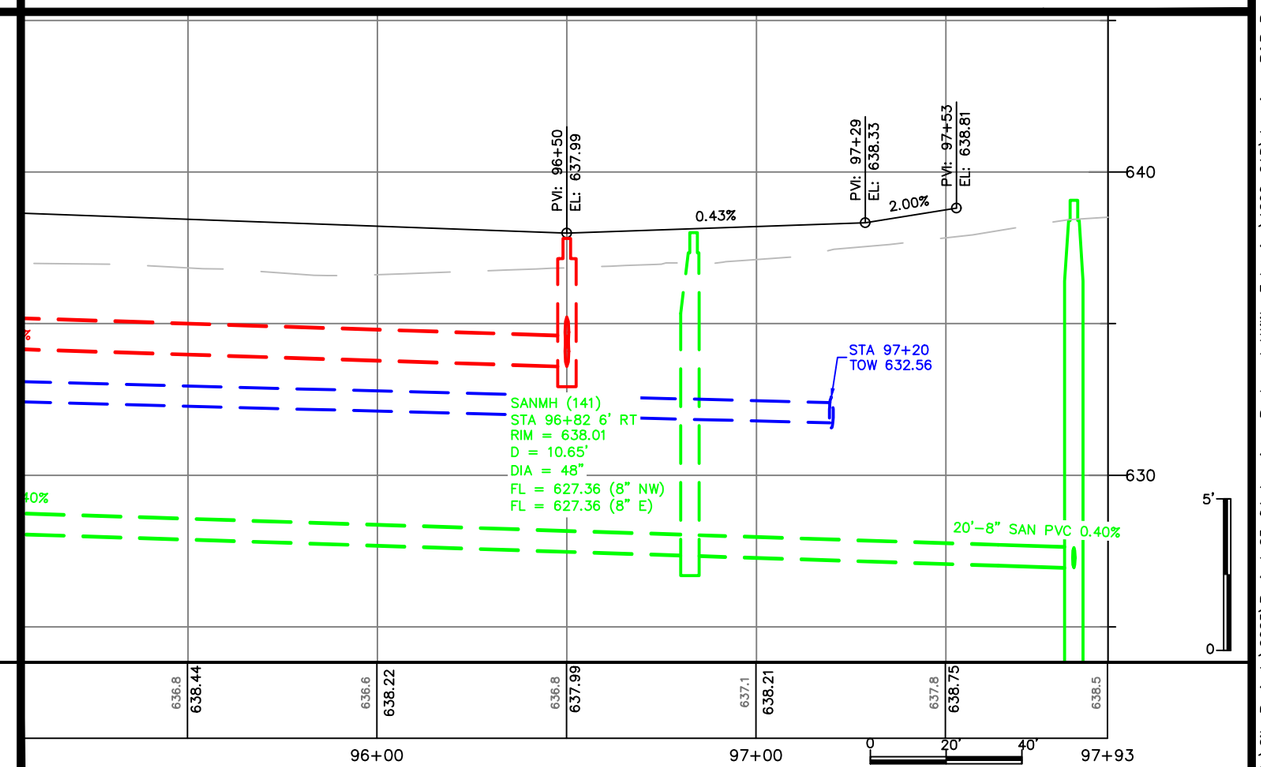

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FUTURE STREETS A & C

150' W/O AMERICAN BOULEVARD TO
150' E/O AMERICAN BOULEVARD

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT # 25-04

	BY	DATE
SURVEYED	MJT	04-2024
DRAWN	KAD	12-2025
DESIGNED	EPR	06-2024
CHECKED	EPR	12-2025

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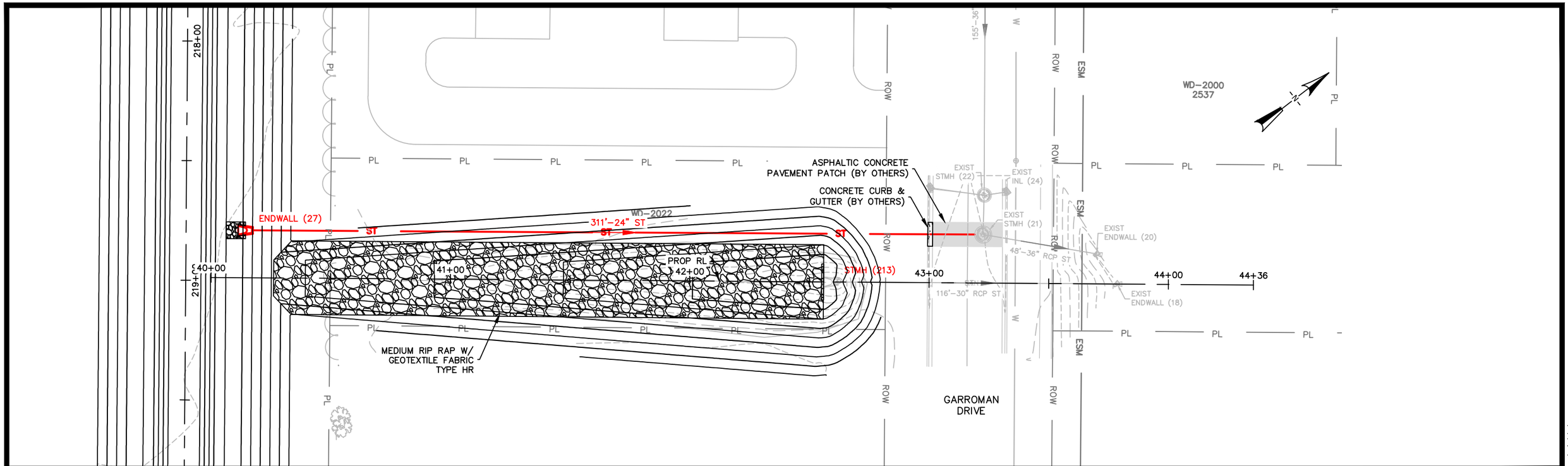

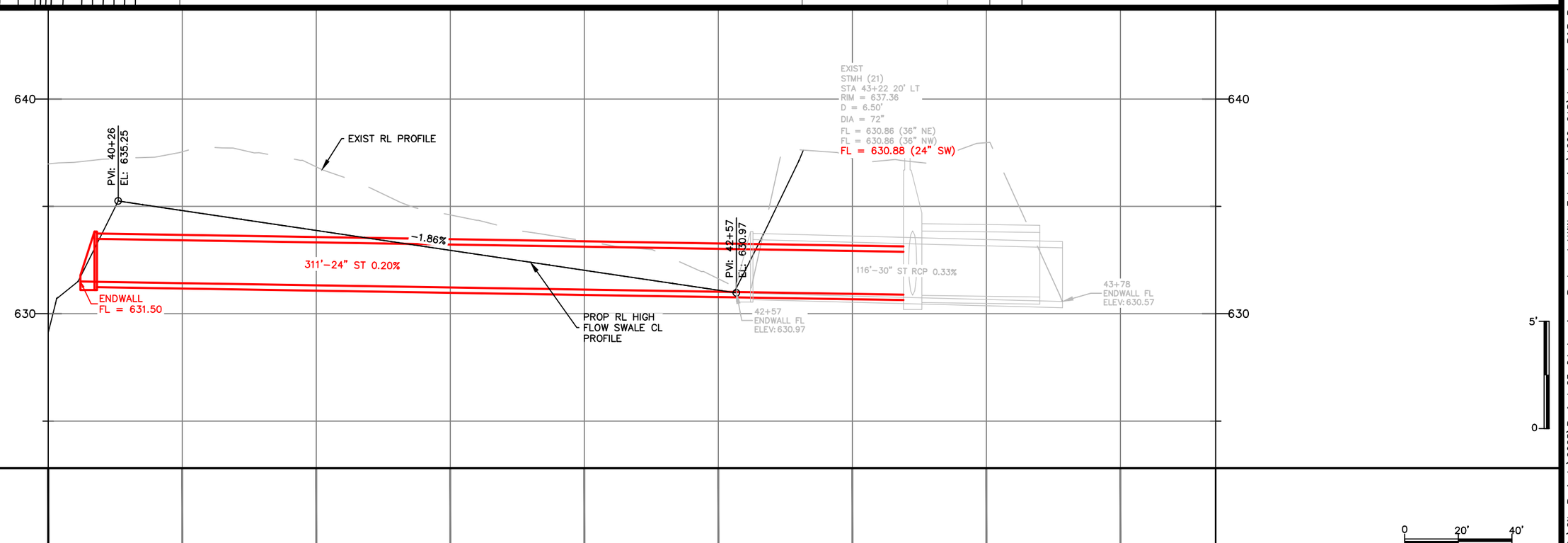

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POND LOW FLOW PIPE & HIGH FLOW SWALE

OUTLOT 4 TO GARROMAN DRIVE

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT # 25-04

	BY	DATE
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DRAWN	KAD	12-2025
DESIGNED	EPR	10-2024
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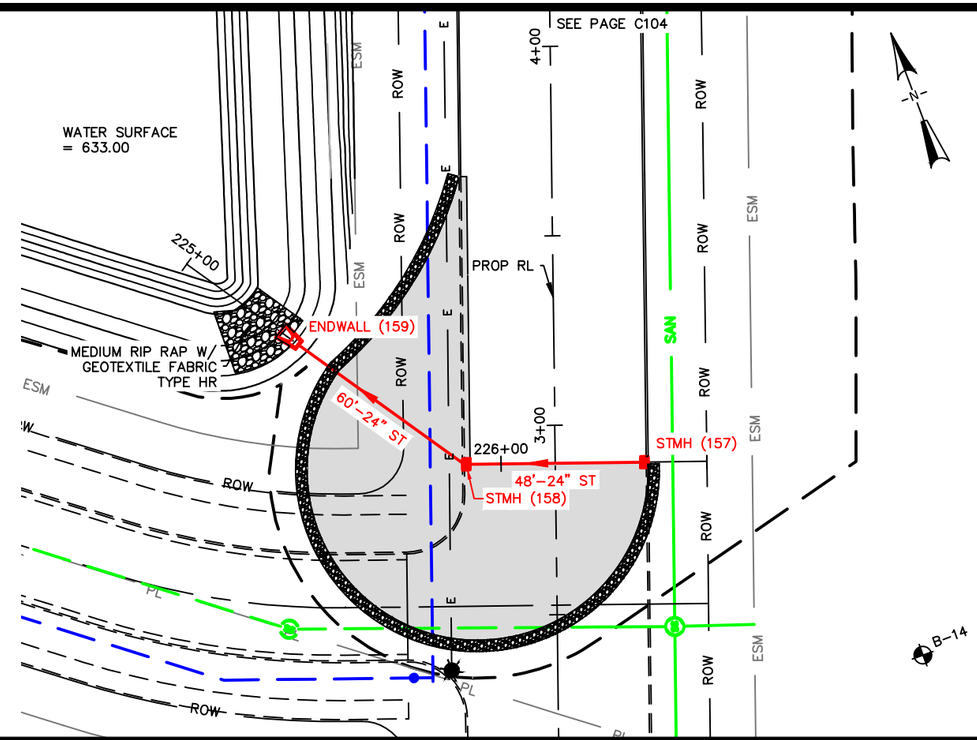

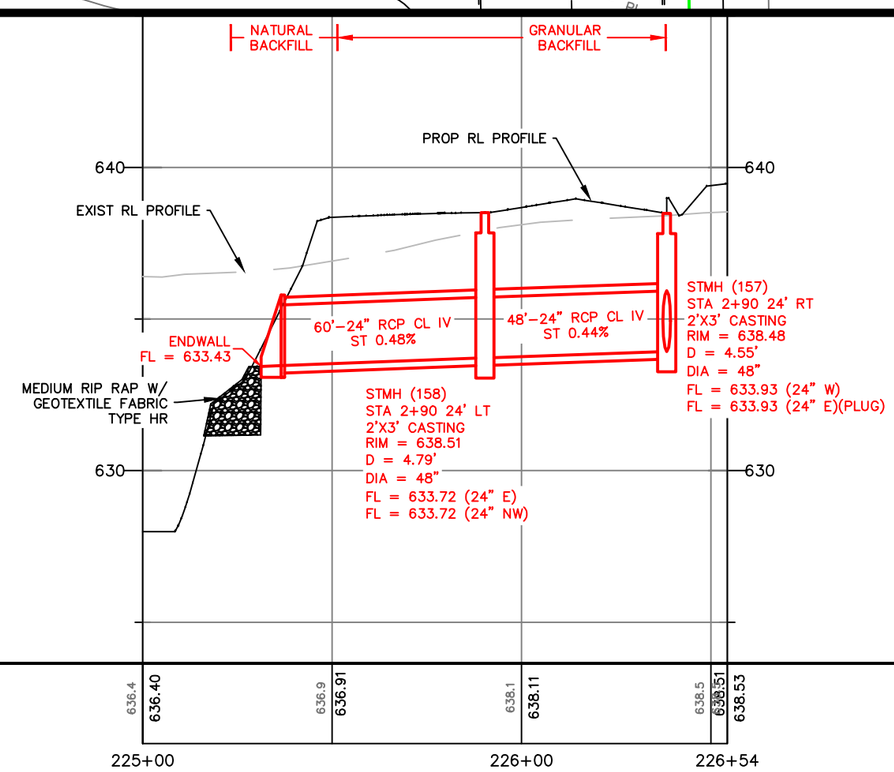

NOTE:

1. ADJUST GUTTER FLOWLINE TO INLET ELEVATION TO MAINTAIN 0.40% SLOPE IN FLOWLINE.
2. INSTALL INLET CASTINGS WITH NO MASTIC TO DRAIN ROAD BASE PRIOR TO CONCRETE PAVING.
3. NATURAL BACKFILL STORM SEWER IN THE TERRACE AND GRANULAR BACKFILL IN THE STREET.

5' 0

0 20' 40'

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AMERICAN BOULEVARD

STORM SEWER LEADS

PLAN AND PROFILE

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT # 25-04

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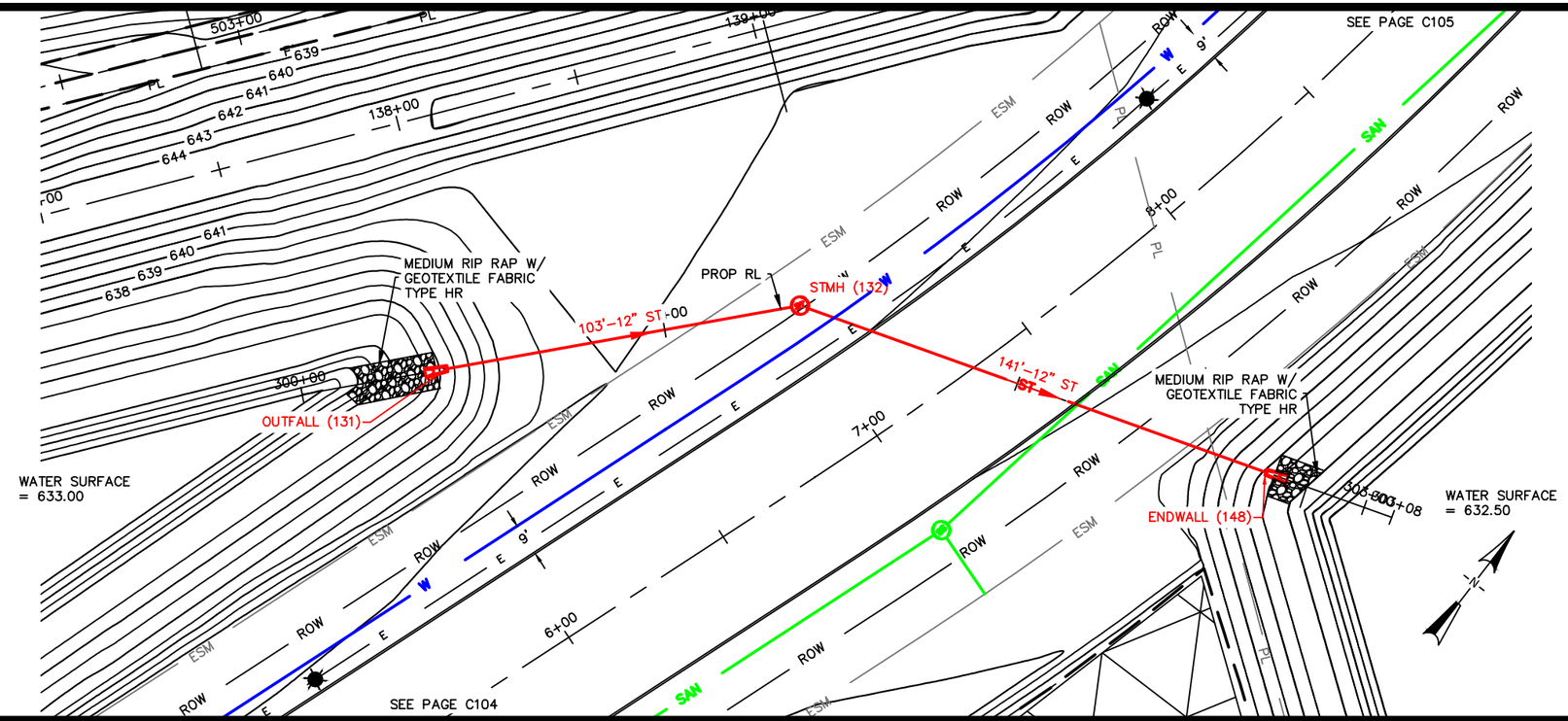

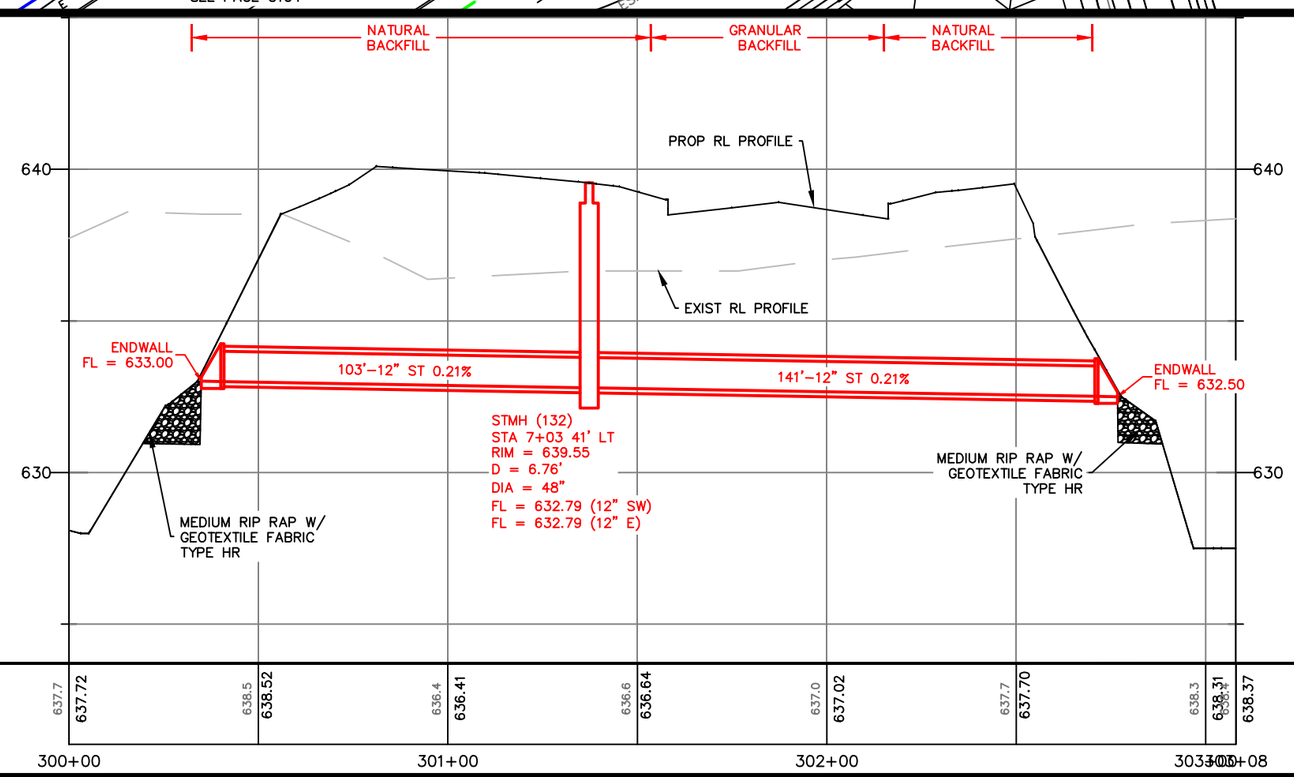

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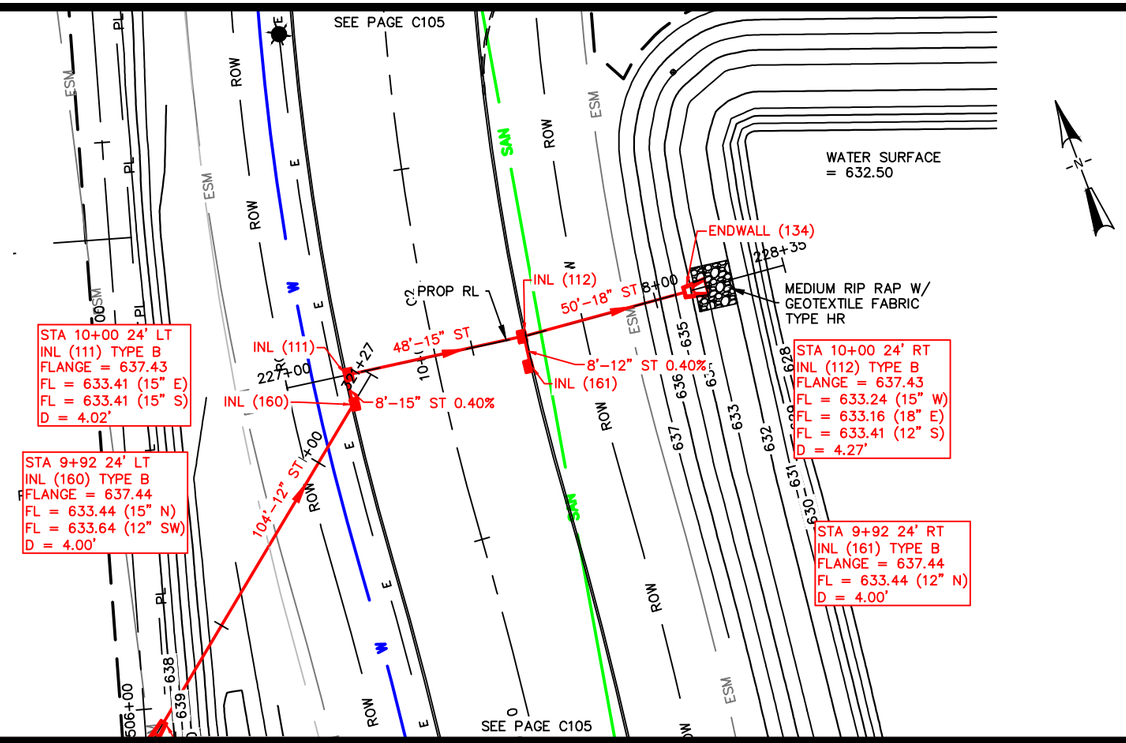

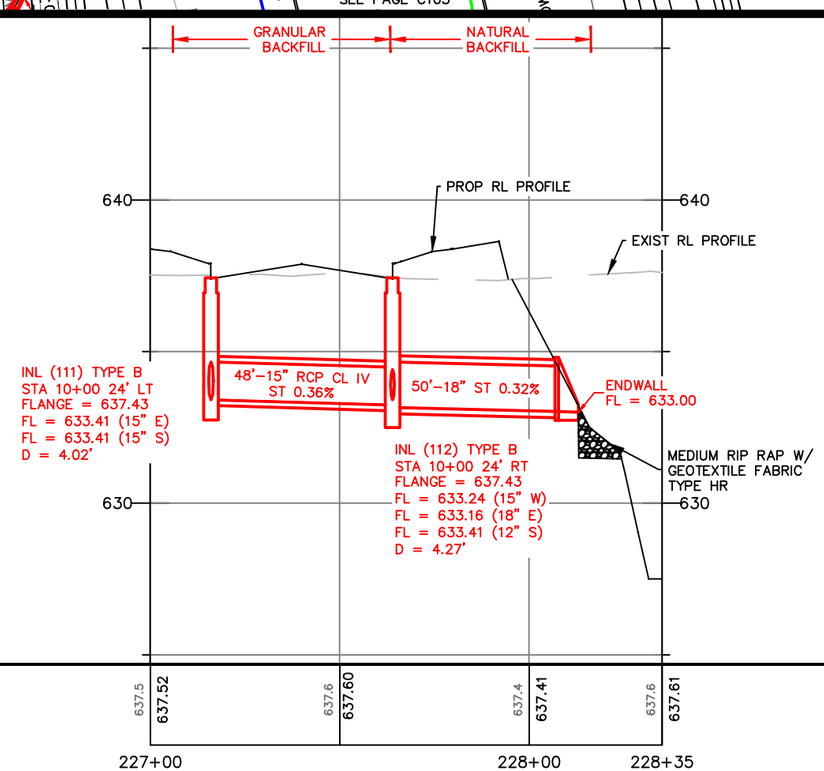

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5'
0

0 20' 40'

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AMERICAN BOULEVARD

STORM SEWER LEADS

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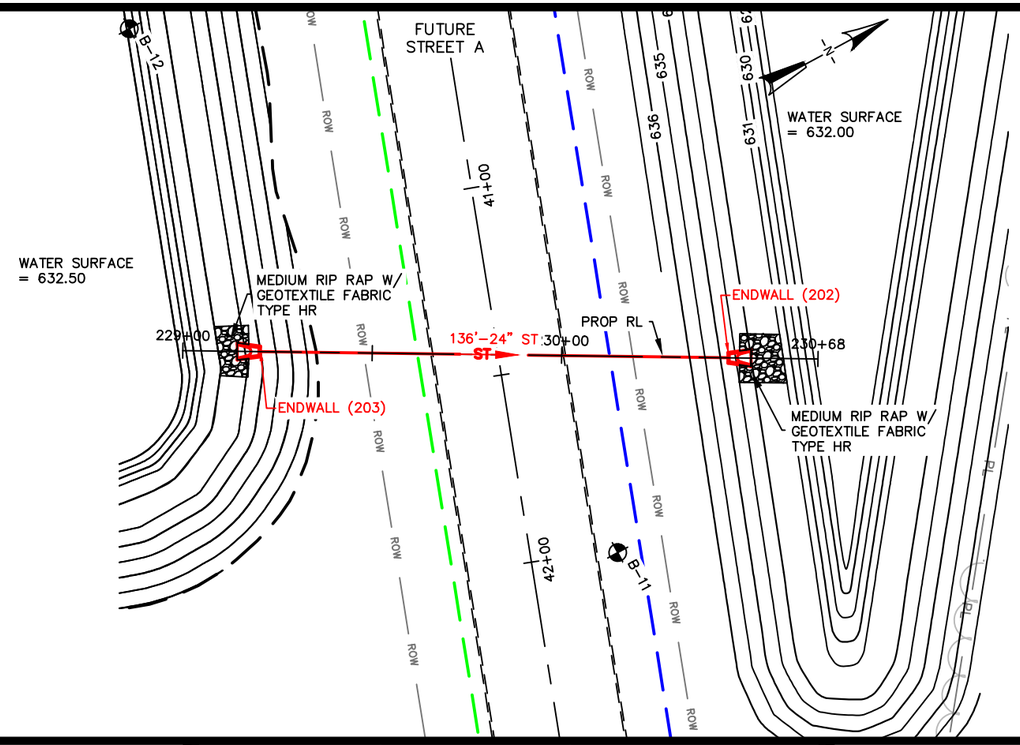

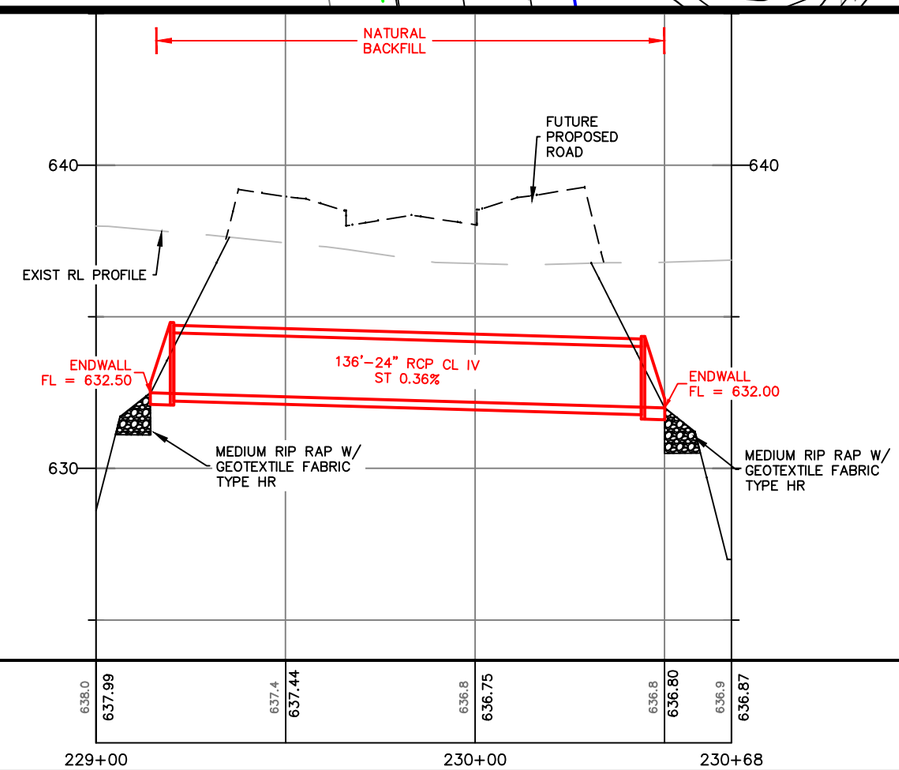

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5' 0

0 20' 40'

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AMERICAN BOULEVARD

STORM SEWER LEADS

PLAN AND PROFILE

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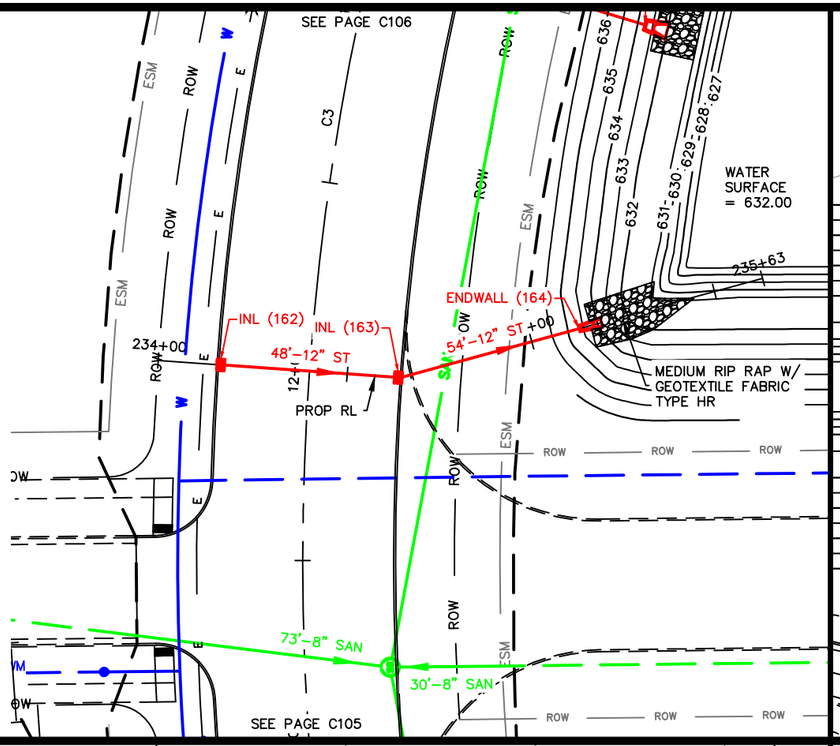

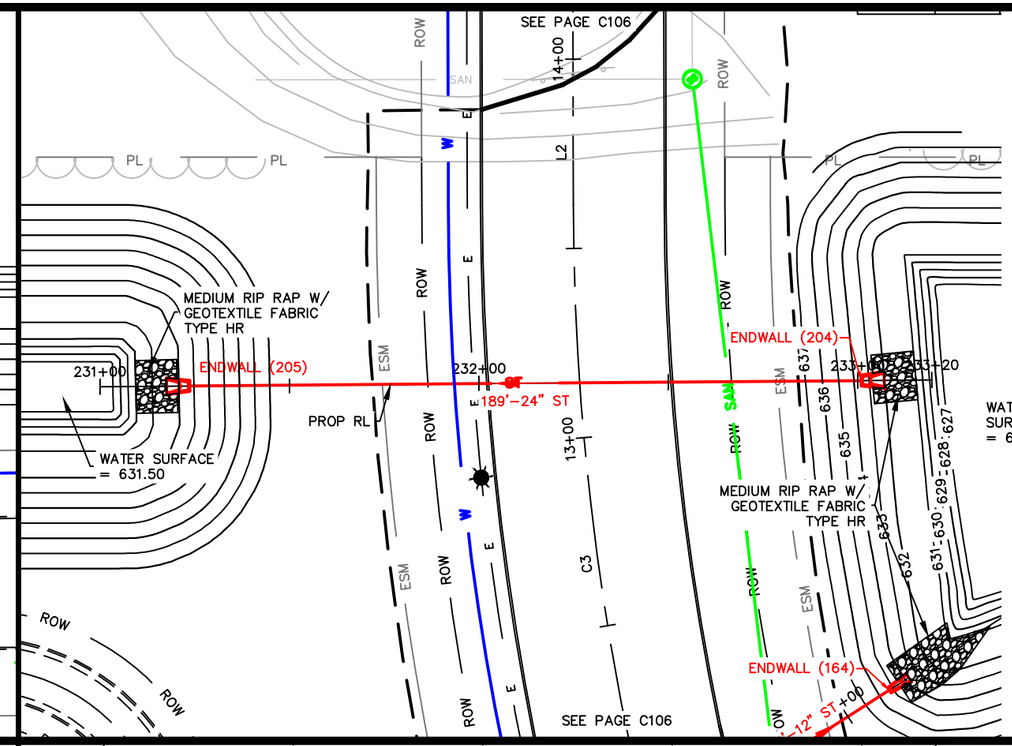

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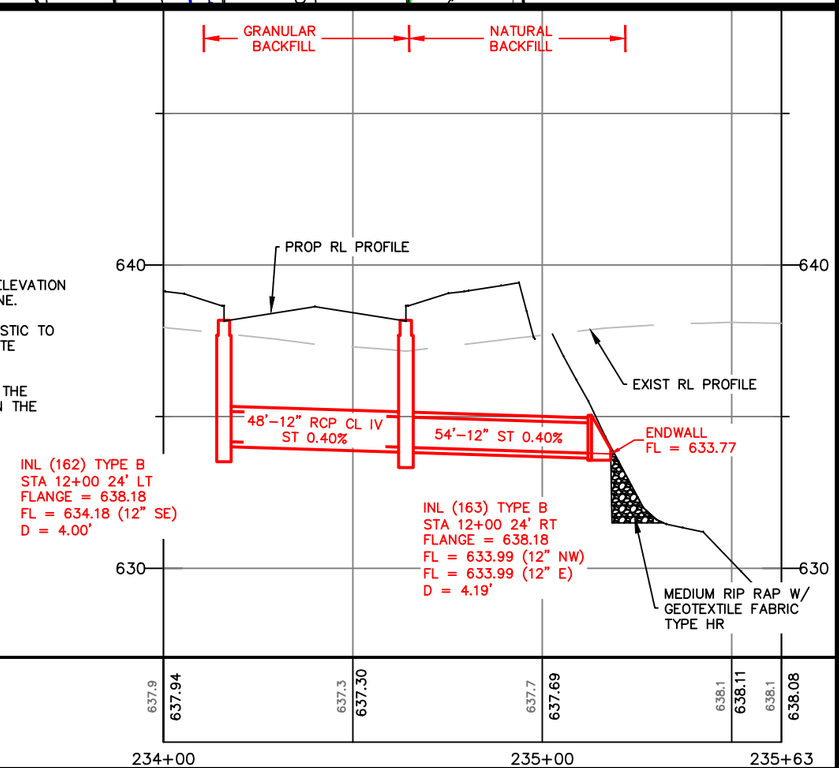

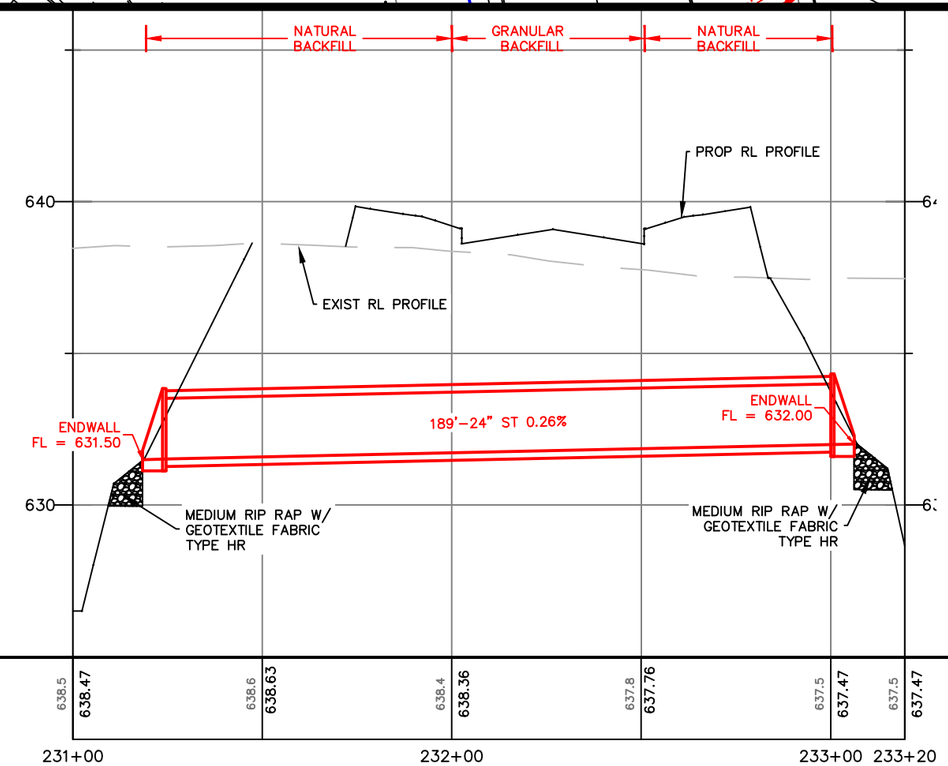

5'
0

0 20' 40'

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AMERICAN BOULEVARD
STORM SEWER LEADS
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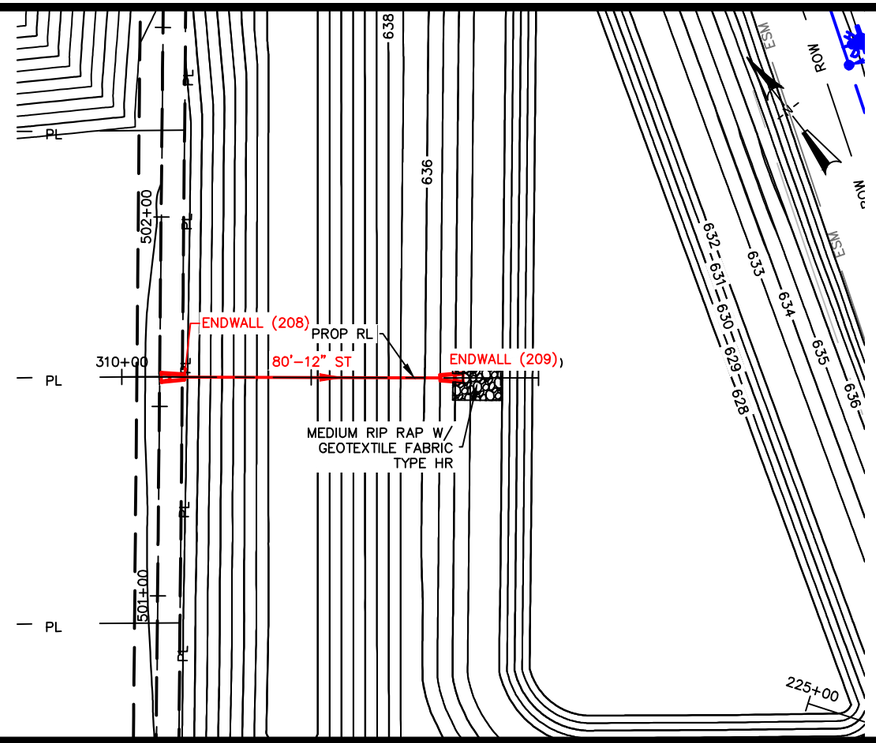

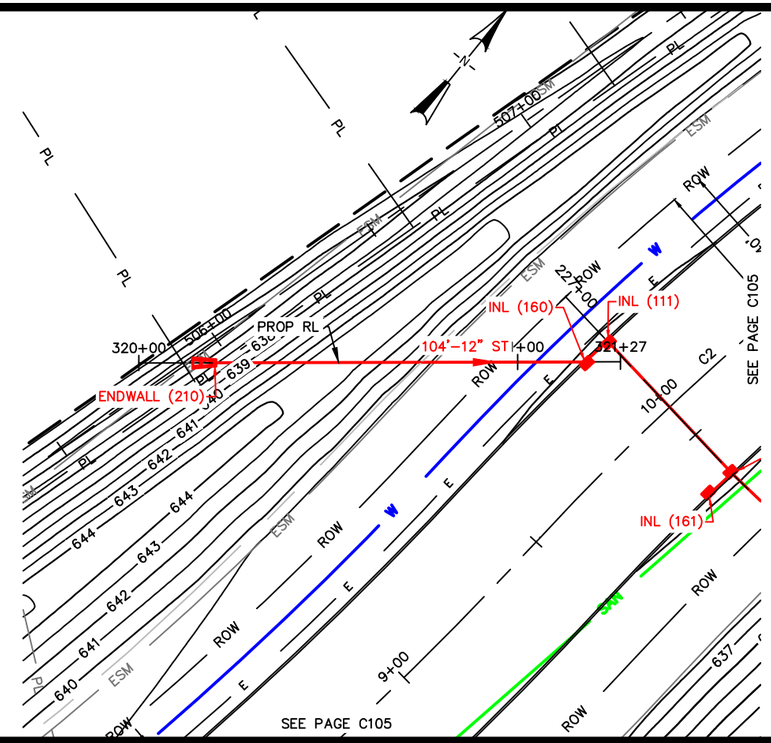

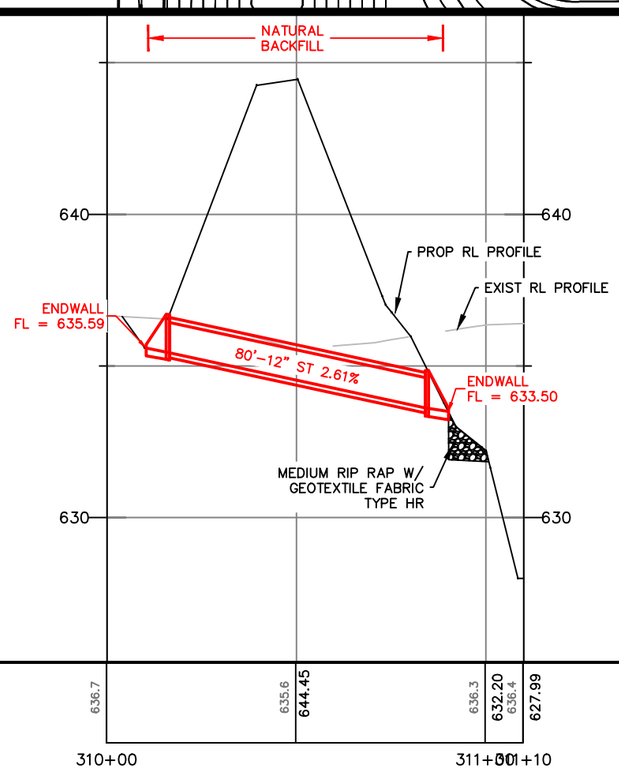

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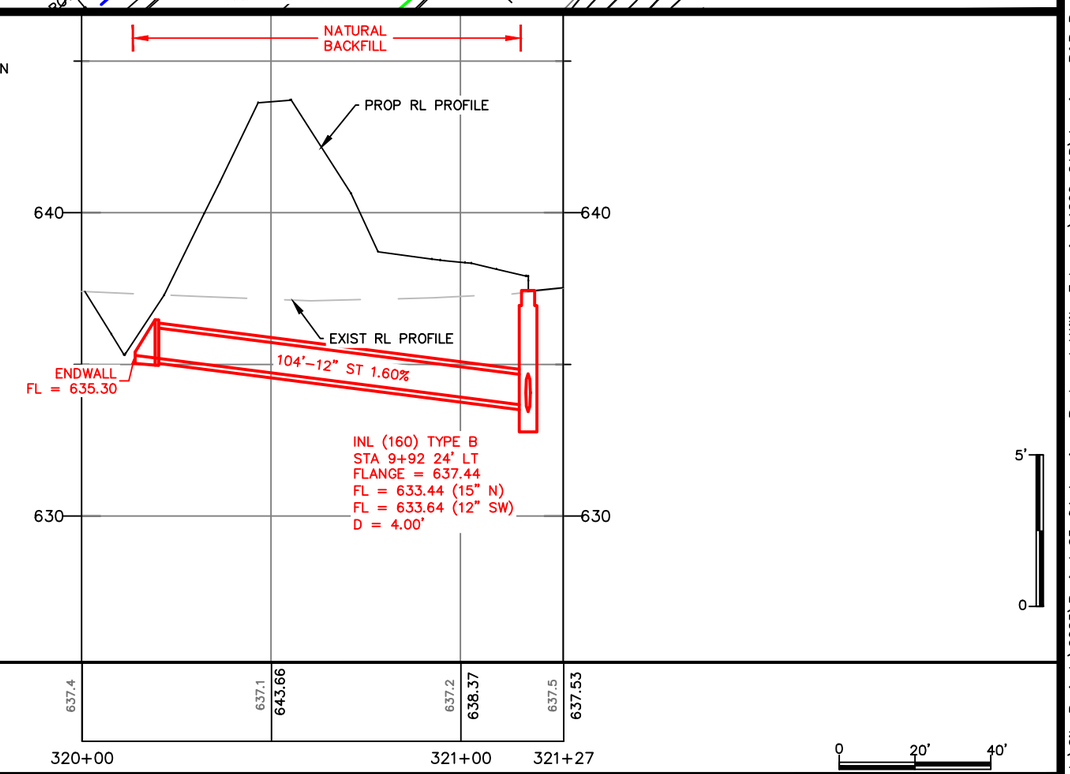

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AMERICAN BOULEVARD
STORM SEWER LEADS
PLAN AND PROFILE

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

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REVISIONS / ISSUES

NO.	DATE	BY	REMARKS

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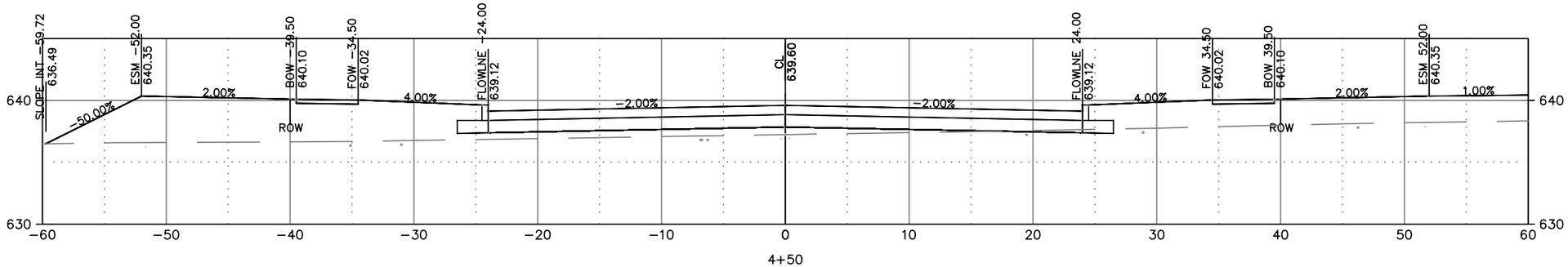

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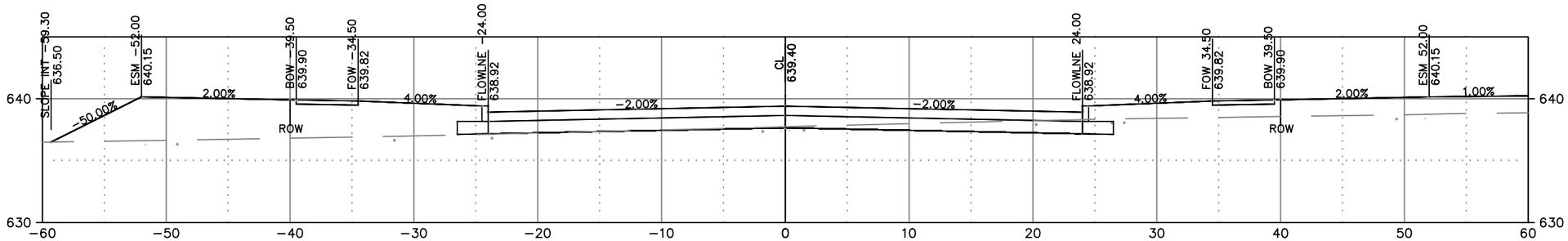

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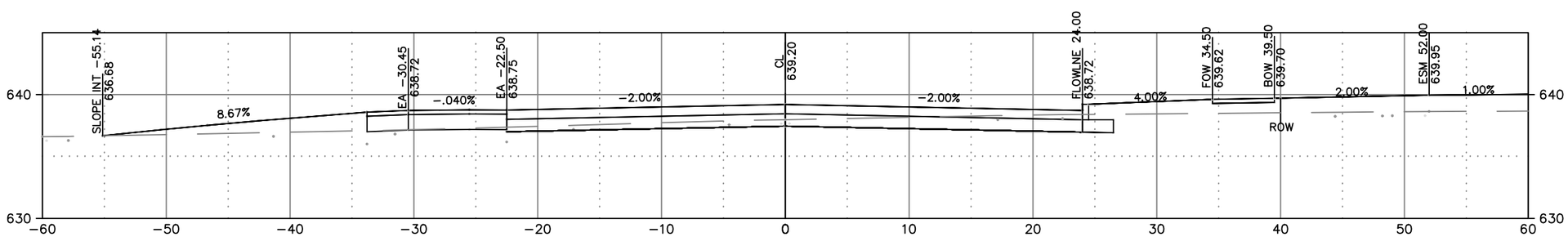

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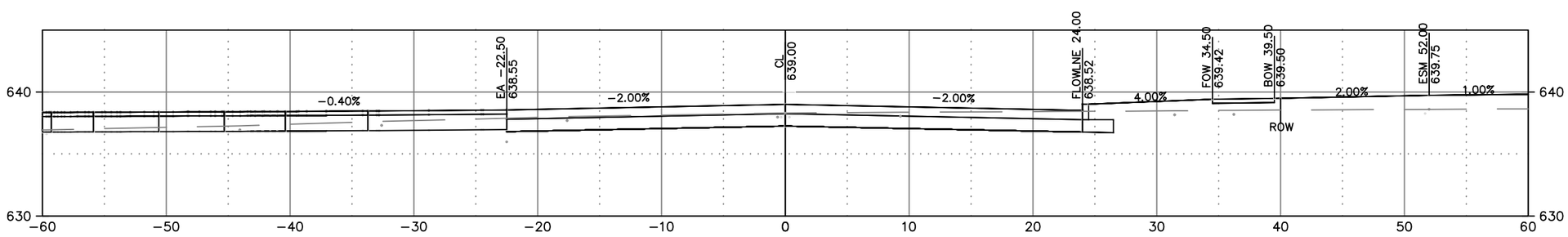

3+00

10'
0

0 5' 10'

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AMERICAN BOULEVARD

CROSS SECTIONS

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT # 25-04

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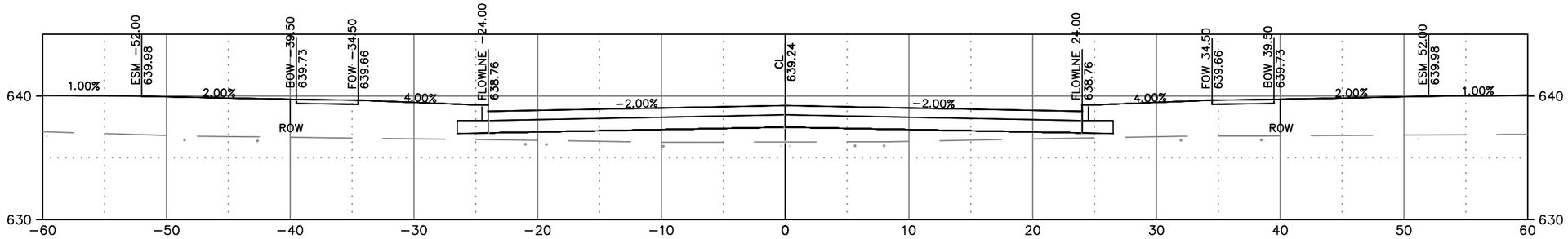

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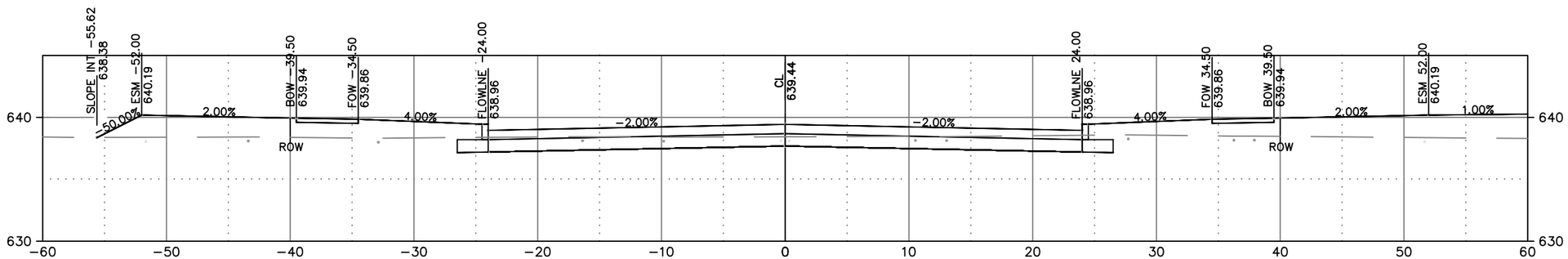

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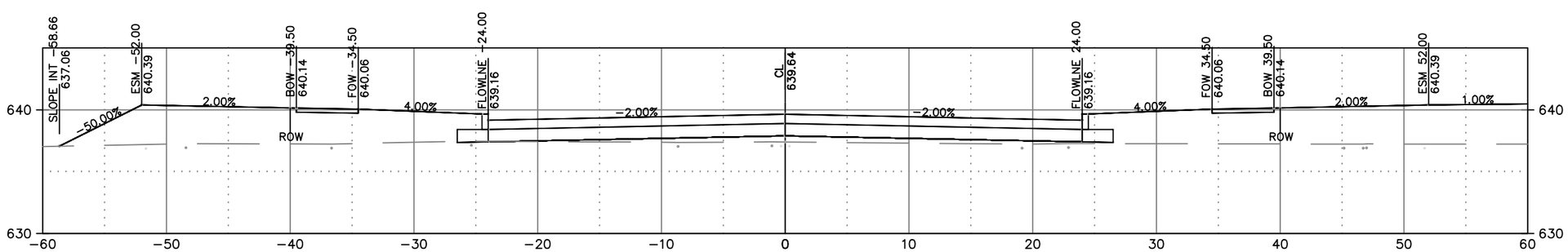

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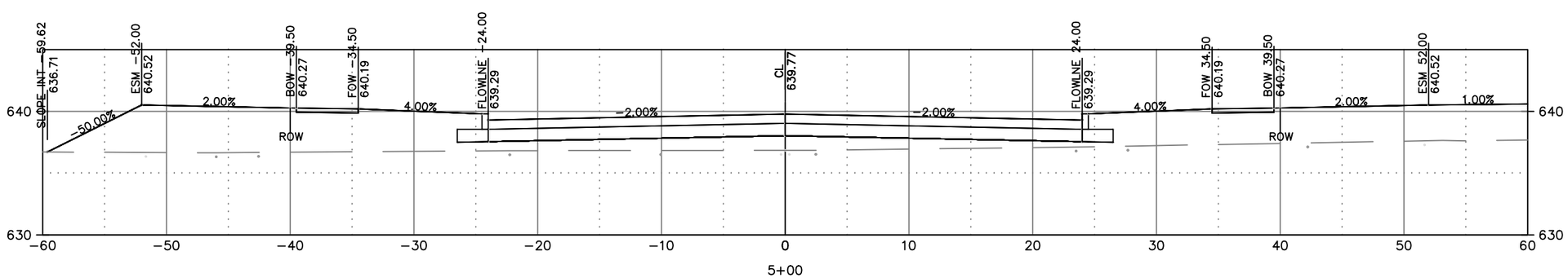

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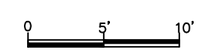

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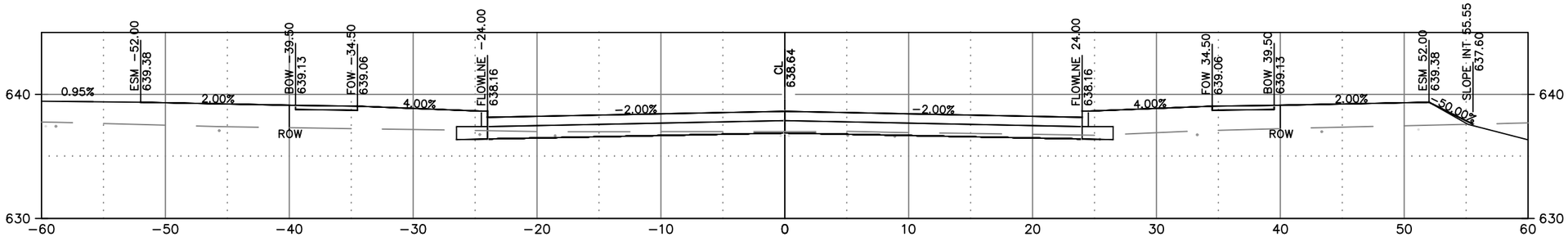

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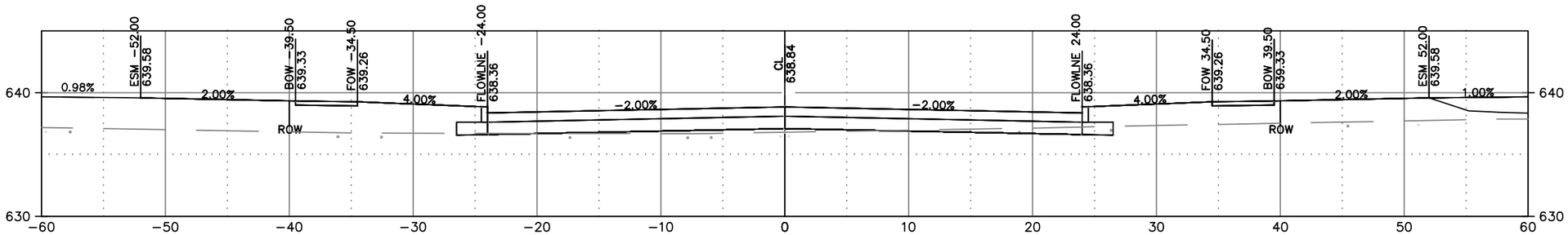

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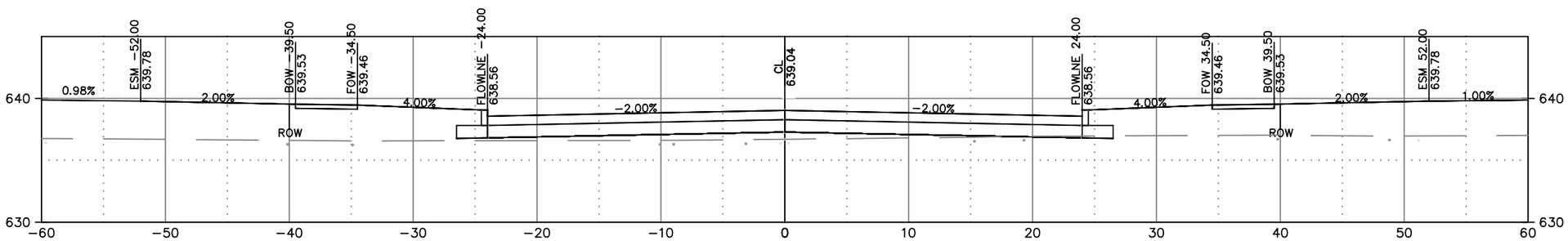

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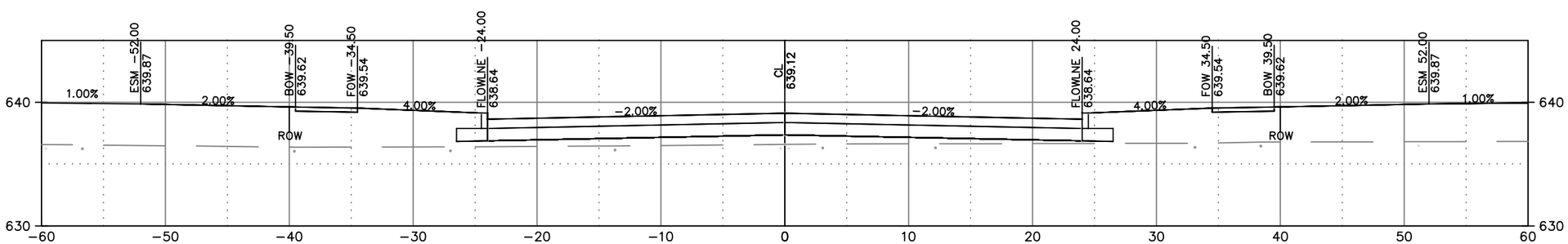

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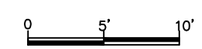

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AMERICAN BOULEVARD

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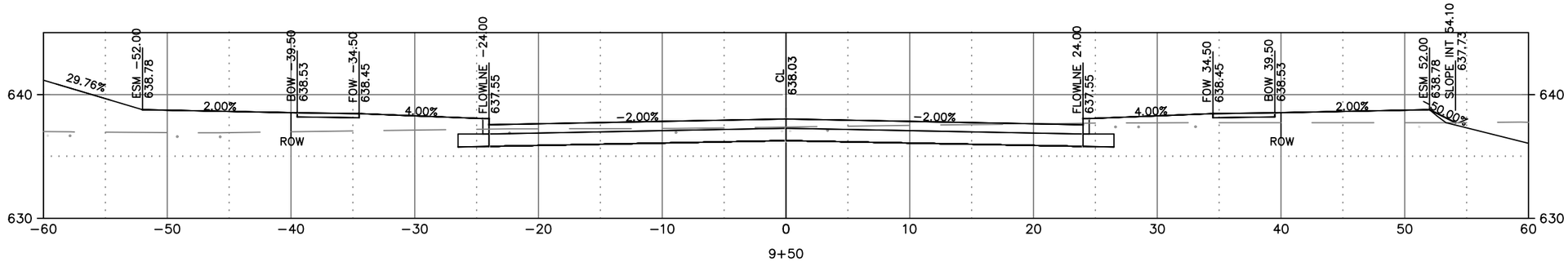

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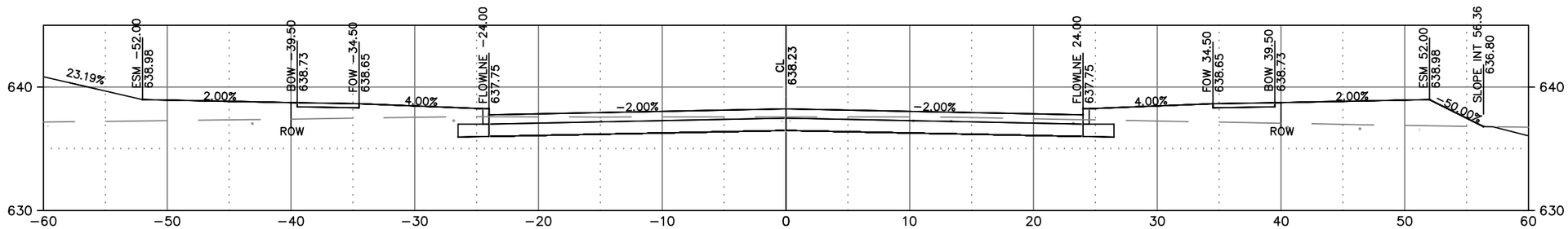

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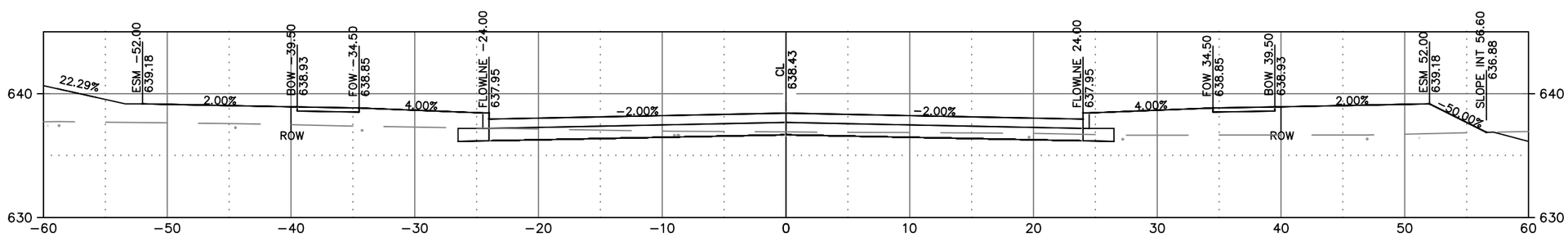

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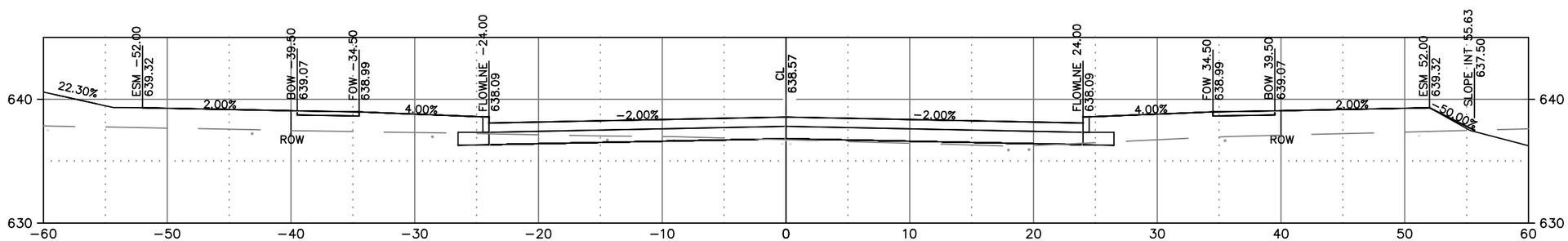

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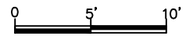

DE PERE

CITY OF DE PERE

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115

OFFICE: 920-339-4061 EMAIL: DPPUBWRKS@DEPEREWI.GOV

AMERICAN BOULEVARD

CROSS SECTIONS

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT # 25-04

	BY	DATE
SURVEYED	MJT	04-2024
DRAWN	KAD	12-2025
DESIGNED	EPR	10-2024
CHECKED	EPR	12-2025

REVISIONS / ISSUES

NO.	DATE	BY	REMARKS

PAGE NO. C304

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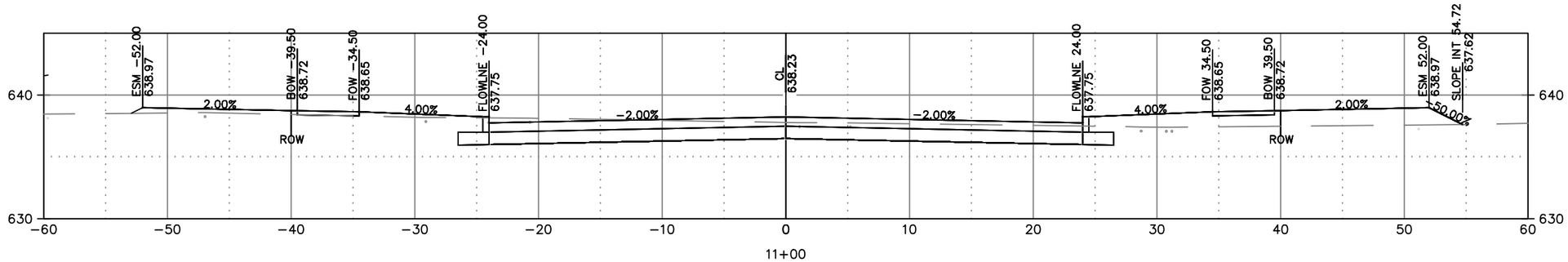

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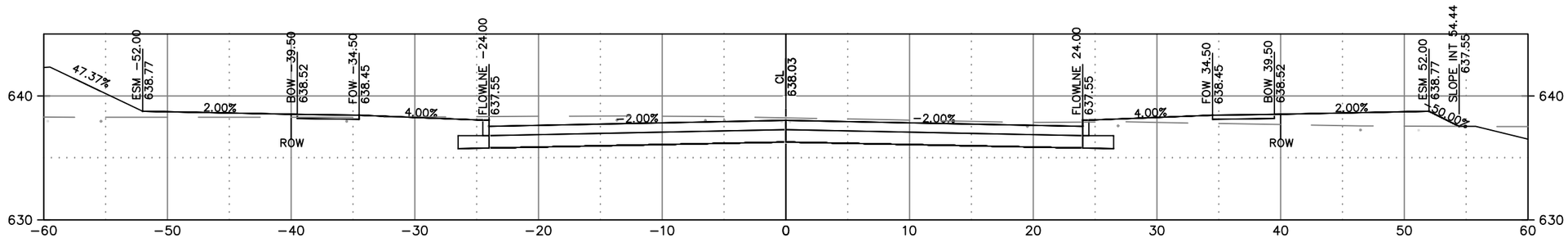

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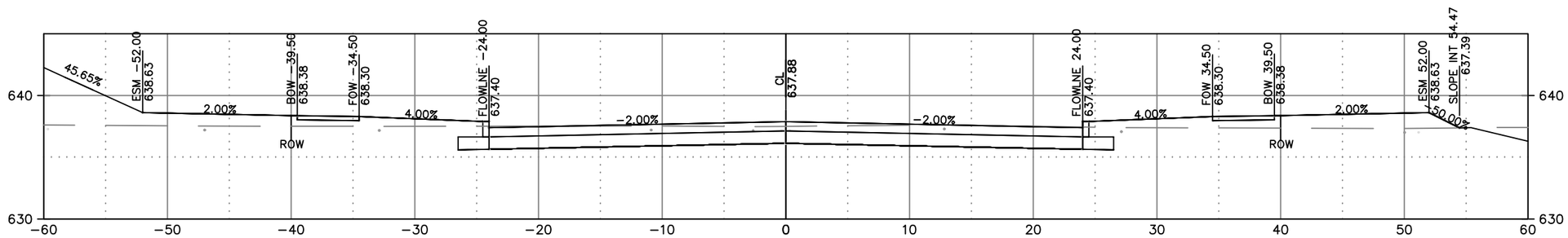

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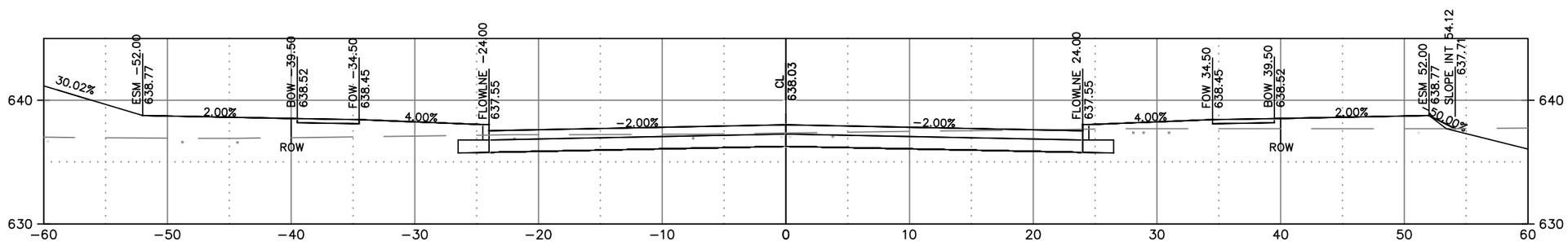

9+51

10'
0

0 5' 10'

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CITY OF DE PERE

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115

OFFICE: 920-339-4061 EMAIL: DPPUBWRKS@DEPEREWI.GOV

AMERICAN BOULEVARD

CROSS SECTIONS

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT # 25-04

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REVISIONS / ISSUES

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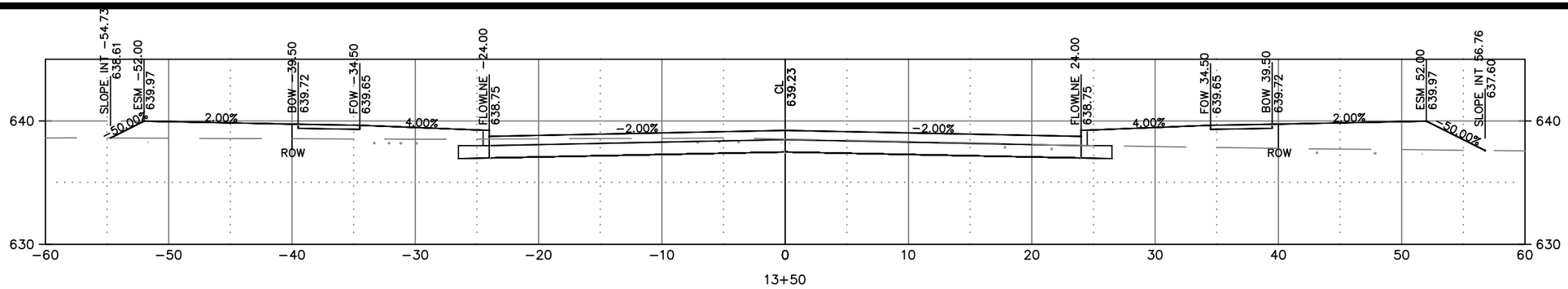

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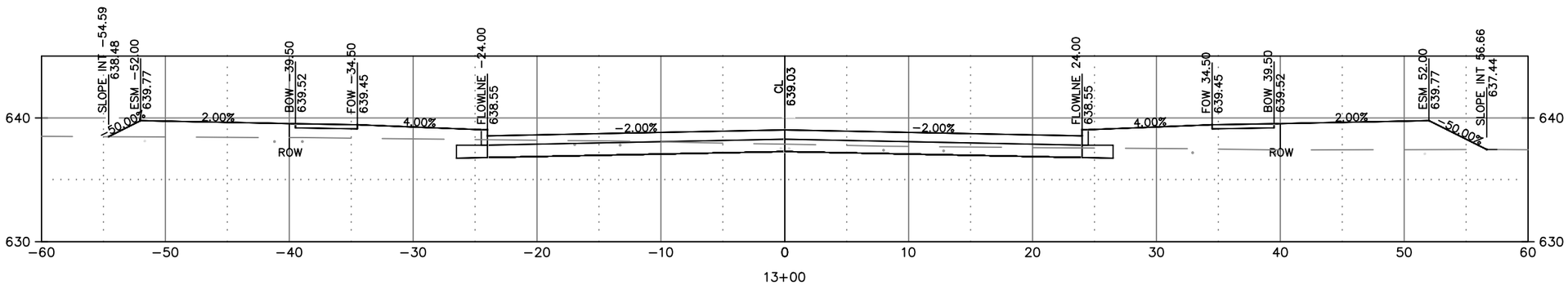

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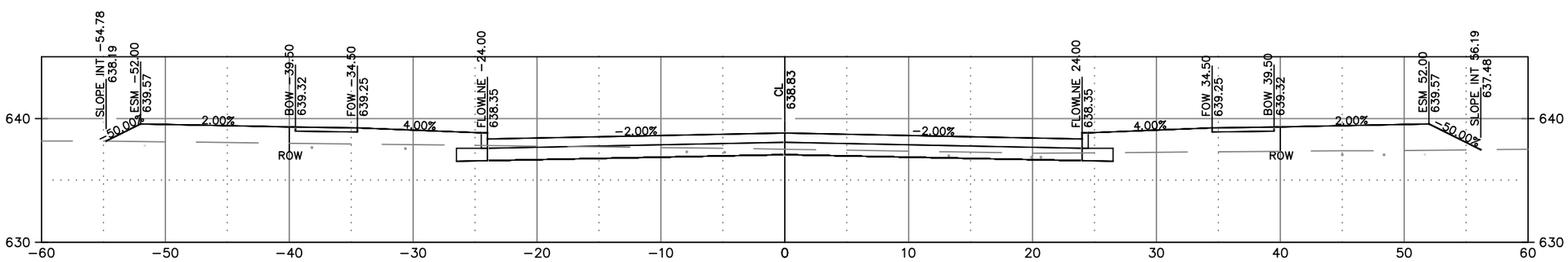

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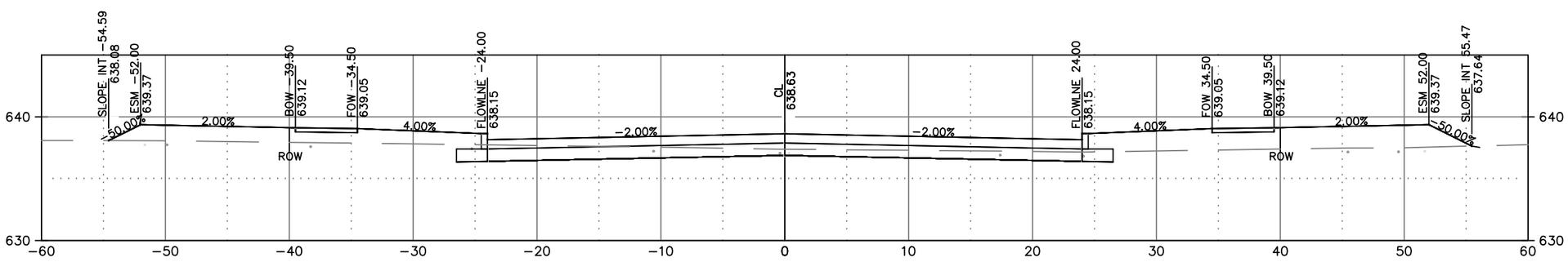

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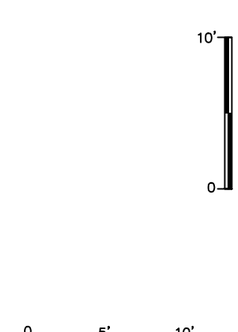

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ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115

OFFICE: 920-339-4061 EMAIL: DPPUBWRKS@DEPEREWI.GOV

AMERICAN BOULEVARD

CROSS SECTIONS

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT # 25-04

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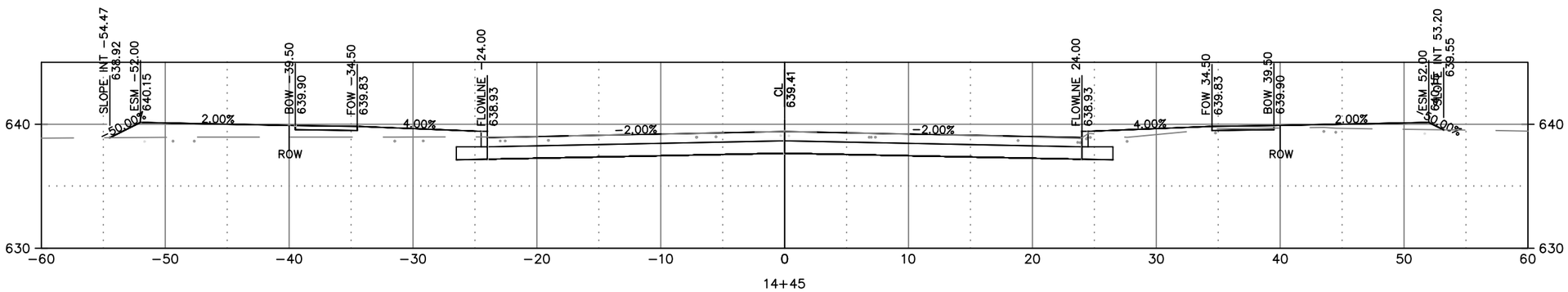

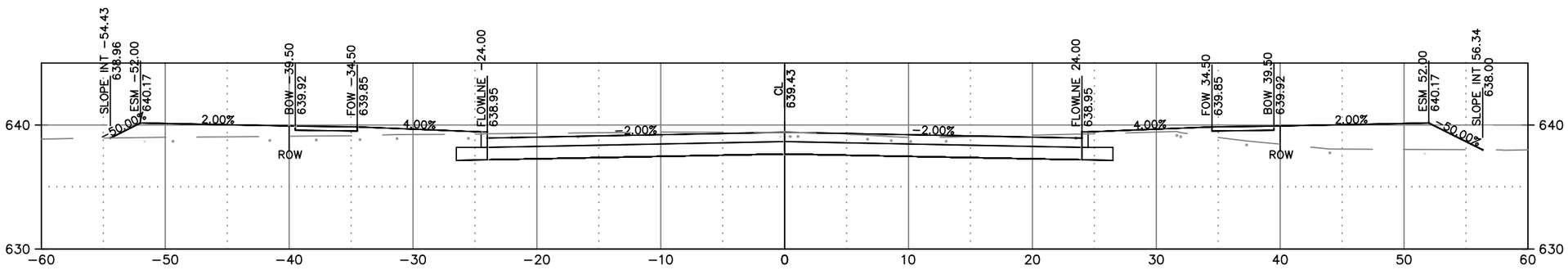

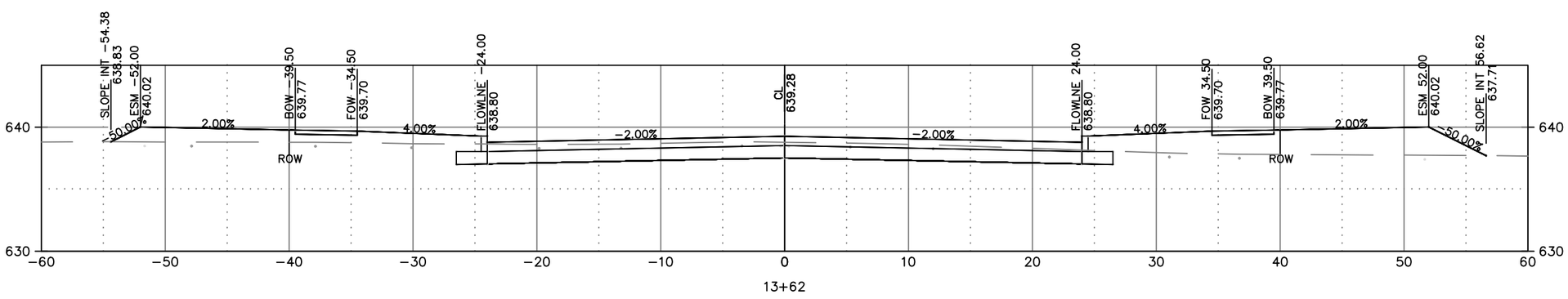

10'
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TOPSOIL STRIPPING (BASED ON 4" DEPTH)

STATION	AREA	VOLUME	CUMULATIVE VOLUME *
2+50.00	0.00	0.00	0.00 CY
2+90.00	37.08	27.46	27.46 CY
3+00.00	37.08	13.73	41.19 CY
3+50.00	37.07	68.66	109.85 CY
3+65.91	36.90	21.80	131.65 CY
4+00.00	34.41	45.01	176.67 CY
4+50.00	34.41	63.72	240.39 CY
5+00.00	34.41	63.72	304.11 CY
5+50.00	34.41	63.72	367.83 CY
6+00.00	34.41	63.72	431.56 CY
6+50.00	35.57	64.80	496.36 CY
6+79.63	36.91	39.77	536.12 CY
7+00.00	36.91	27.73	563.85 CY
7+25.00	36.91	34.03	597.88 CY
7+50.00	36.91	34.03	631.91 CY
7+75.00	36.92	34.03	665.94 CY
8+00.00	36.91	34.03	699.97 CY
8+15.51	36.91	21.20	721.18 CY
8+25.00	36.91	12.97	734.15 CY
8+50.00	36.91	34.03	768.17 CY
8+75.00	36.91	34.03	802.20 CY
9+00.00	36.91	34.03	836.23 CY
9+25.00	36.91	34.03	870.26 CY
9+50.00	36.88	34.02	904.28 CY
9+51.40	36.93	1.91	906.19 CY
9+75.00	36.91	32.47	938.66 CY
10+00.00	36.91	34.38	973.04 CY
10+25.00	36.91	34.38	1007.42 CY
10+50.00	36.91	34.38	1041.80 CY
10+75.00	36.89	34.38	1076.18 CY
11+00.00	35.66	33.75	1109.92 CY
11+25.00	34.77	32.67	1142.59 CY
11+50.00	34.41	32.04	1174.63 CY
11+56.46	34.41	8.23	1182.86 CY
11+75.00	34.41	23.63	1206.49 CY
12+00.00	34.48	31.89	1238.38 CY
12+25.00	34.45	31.91	1270.29 CY
12+50.00	34.41	31.88	1302.16 CY
12+75.00	34.41	31.86	1334.02 CY
13+00.00	34.41	31.86	1365.88 CY
13+25.00	34.41	31.86	1397.75 CY
13+50.00	34.41	31.86	1429.61 CY
13+61.52	34.41	14.69	1444.30 CY
14+00.00	34.41	49.04	1493.33 CY
14+45.42	34.39	57.87	1551.20 CY

TOTAL VOLUME TABLE

STATION	FILL AREA	CUT AREA	FILL VOLUME	CUT VOLUME	CUMULATIVE FILLI VOL	CUMULATIVE CUT VOL *
2+50.00	9.71	0.00	0.00	0.00	0.00 CY	0.00 CY
2+90.00	39.23	92.83	36.26	68.76	36.26 CY	68.76 CY
3+00.00	31.56	91.92	13.11	34.21	49.36 CY	102.98 CY
3+50.00	54.87	58.59	80.02	139.36	129.39 CY	242.33 CY
3+65.91	116.63	51.19	50.54	32.35	179.93 CY	274.69 CY
4+00.00	128.53	44.11	154.75	60.16	334.68 CY	334.85 CY
4+50.00	187.07	34.42	292.22	72.72	626.90 CY	407.57 CY
5+00.00	242.12	34.41	397.39	63.73	1024.29 CY	471.30 CY
5+50.00	193.52	34.41	403.37	63.72	1427.66 CY	535.02 CY
6+00.00	90.65	71.05	263.12	97.65	1690.79 CY	632.67 CY
6+50.00	228.26	35.57	295.29	98.72	1986.07 CY	731.39 CY
6+79.63	209.96	36.91	240.44	39.77	2226.51 CY	771.16 CY
7+00.00	173.83	36.91	145.32	27.73	2371.83 CY	798.89 CY
7+25.00	142.86	37.84	147.15	34.47	2518.98 CY	833.36 CY
7+50.00	114.45	38.71	119.05	35.32	2638.03 CY	868.68 CY
7+75.00	101.74	38.46	99.78	35.62	2737.81 CY	904.30 CY
8+00.00	94.01	39.76	90.66	36.06	2828.48 CY	940.35 CY
8+15.51	94.24	42.21	54.08	23.55	2882.56 CY	963.90 CY
8+25.00	90.34	43.08	32.43	14.98	2914.98 CY	978.89 CY
8+50.00	95.83	47.61	87.04	41.73	3002.03 CY	1020.62 CY
8+75.00	93.24	66.36	88.59	52.50	3090.61 CY	1073.12 CY
9+00.00	75.56	89.50	78.96	71.93	3169.57 CY	1145.05 CY
9+25.00	60.07	97.14	62.89	86.28	3232.46 CY	1231.33 CY
9+50.00	55.53	92.79	53.03	87.88	3285.49 CY	1319.22 CY
9+51.40	55.51	92.49	2.87	4.79	3288.36 CY	1324.01 CY
9+75.00	51.51	90.84	47.35	80.22	3335.72 CY	1404.22 CY
10+00.00	44.45	107.76	44.43	92.12	3380.14 CY	1496.34 CY
10+25.00	30.86	125.18	34.35	108.09	3414.49 CY	1604.44 CY
10+50.00	24.78	134.06	24.99	120.37	3439.48 CY	1724.80 CY
10+75.00	27.24	118.50	23.18	117.32	3462.67 CY	1842.12 CY
11+00.00	37.90	102.82	29.00	102.83	3491.67 CY	1944.95 CY
11+25.00	39.58	110.91	34.12	99.76	3525.79 CY	2044.71 CY
11+50.00	45.41	117.58	37.04	107.61	3562.83 CY	2152.32 CY
11+56.46	45.26	114.94	10.85	27.81	3573.68 CY	2180.13 CY
11+75.00	69.62	66.50	38.12	63.26	3611.80 CY	2243.40 CY
12+00.00	75.33	60.13	66.13	58.83	3677.92 CY	2302.22 CY
12+25.00	83.32	53.10	72.65	52.60	3750.57 CY	2354.82 CY
12+50.00	86.45	53.80	77.69	49.68	3828.26 CY	2404.50 CY
12+75.00	86.77	57.73	78.96	51.87	3907.22 CY	2456.37 CY
13+00.00	84.40	63.12	77.77	56.20	3984.98 CY	2512.56 CY
13+25.00	81.15	73.06	75.18	63.26	4060.16 CY	2575.83 CY
13+50.00	82.31	80.18	74.33	71.13	4134.49 CY	2646.96 CY
13+61.52	77.24	87.51	34.04	35.78	4168.54 CY	2682.74 CY
14+00.00	35.07	115.77	80.03	144.85	4248.56 CY	2827.59 CY
14+45.42	8.35	110.62	36.52	190.42	4285.09 CY	3018.01 CY

CRUSHED AGGREGATE BASE COURSE

STATION	AREA	VOLUME	CUMULATIVE VOLUME
2+50.00	68.35	0.00	0.00 CY
2+90.00	106.56	129.56	129.56 CY
3+00.00	95.95	37.50	167.06 CY
3+50.00	63.17	147.33	314.40 CY
3+65.91	52.98	34.23	348.63 CY
4+00.00	53.13	66.98	415.60 CY
4+50.00	53.13	98.38	513.98 CY
5+00.00	53.13	98.38	612.37 CY
5+50.00	53.13	98.38	710.75 CY
6+00.00	53.13	98.38	809.13 CY
6+50.00	53.13	98.38	907.51 CY
6+79.63	53.13	58.30	965.81 CY
7+00.00	53.13	40.08	1005.90 CY
7+25.00	53.13	49.19	1055.09 CY
7+50.00	53.13	49.19	1104.28 CY
7+75.00	53.13	49.19	1153.47 CY
8+00.00	53.13	49.19	1202.66 CY
8+15.51	53.13	30.52	1233.19 CY
8+25.00	53.13	18.67	1251.85 CY
8+50.00	53.13	49.19	1301.04 CY
8+75.00	53.13	49.19	1350.24 CY
9+00.00	53.13	49.19	1399.43 CY
9+25.00	53.13	49.19	1448.62 CY
9+50.00	53.13	49.19	1497.81 CY
9+51.40	53.13	2.75	1500.56 CY
9+75.00	53.13	46.44	1547.00 CY
10+00.00	53.13	49.19	1596.19 CY
10+25.00	53.13	49.19	1645.38 CY
10+50.00	53.13	49.19	1694.57 CY
10+75.00	53.13	49.19	1743.77 CY
11+00.00	53.13	49.19	1792.96 CY
11+25.00	59.21	52.13	1845.08 CY
11+50.00	70.53	60.59	1905.67 CY
11+56.46	70.74	16.90	1922.57 CY
11+75.00	53.13	42.84	1965.41 CY
12+00.00	53.13	49.19	2014.60 CY
12+25.00	53.13	49.19	2063.79 CY
12+50.00	53.13	49.19	2112.98 CY
12+75.00	53.13	49.19	2162.18 CY
13+00.00	53.13	49.19	2211.37 CY
13+25.00	53.13	49.19	2260.56 CY
13+50.00	53.13	49.19	2309.75 CY
13+61.52	53.13	22.67	2332.42 CY
14+00.00	53.13	75.71	2408.13 CY
14+45.42	53.13	89.37	2497.50 CY

UNCLASSIFIED EXCAVATION BID ITEM
3018.01 CY
−1551.20 CY
1466.81 CY

*−TOPSOIL STRIPPING CUMULATIVE VOLUME INCLUDED IN TOTAL CUMULATIVE CUT VOLUME.
*−BID ITEM FOR UNCLASSIFIED EXCAVATION IS TOTAL CUMULATIVE CUT VOLUME MINUS TOPSOIL STRIPPING CUMULATIVE VOLUME.

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AMERICAN BOULEVARD
ROADWAY QUANTITIES

NAME: AMERICAN BOULEVARD UTILITY EXTENSION
PROJECT # 25−04

	BY	DATE
SURVEYED	MJT	04−2024
DRAWN	KAD	11−2024
DESIGNED	EPR	10−2024
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REVISIONS / ISSUES

NO.	DATE	BY	REMARKS

PAGE NO. C308

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CITY OF DE PERE

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115

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AMERICAN BOULEVARD
EXISTING SITE CONDITIONS

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT 25-04

	BY	DATE
SURVEYED	MJT	09-2025
DRAWN	MJT	09-2025
DESIGNED	MJT	09-2025
CHECKED	EPR	11-2025

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NO.	DATE	BY	REMARKS

PAGE NO. C401

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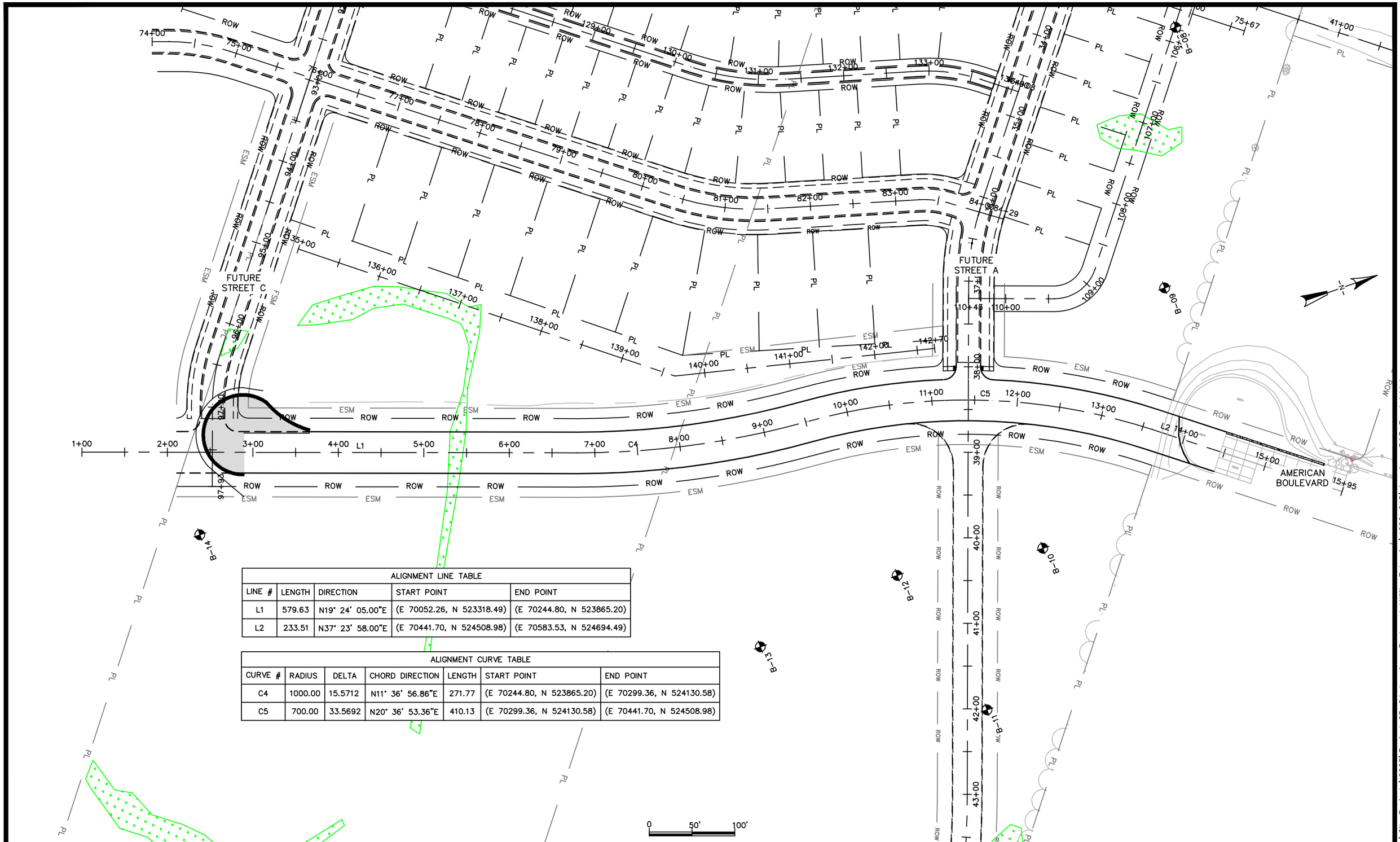

ALIGNMENT LINE TABLE				
LINE #	LENGTH	DIRECTION	START POINT	END POINT
L1	579.63	N19° 24' 05.00"E	(E 70052.26, N 523318.49)	(E 70244.80, N 523865.20)
L2	233.51	N37° 23' 58.00"E	(E 70441.70, N 524508.98)	(E 70583.53, N 524694.49)

ALIGNMENT CURVE TABLE						
CURVE #	RADIUS	DELTA	CHORD DIRECTION	LENGTH	START POINT	END POINT
C4	1000.00	15.5712	N11° 36' 56.86"E	271.77	(E 70244.80, N 523865.20)	(E 70299.36, N 524130.58)
C5	700.00	33.5692	N20° 36' 53.36"E	410.13	(E 70299.36, N 524130.58)	(E 70441.70, N 524508.98)

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ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115

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AMERICAN BOULEVARD

ALIGNMENT

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

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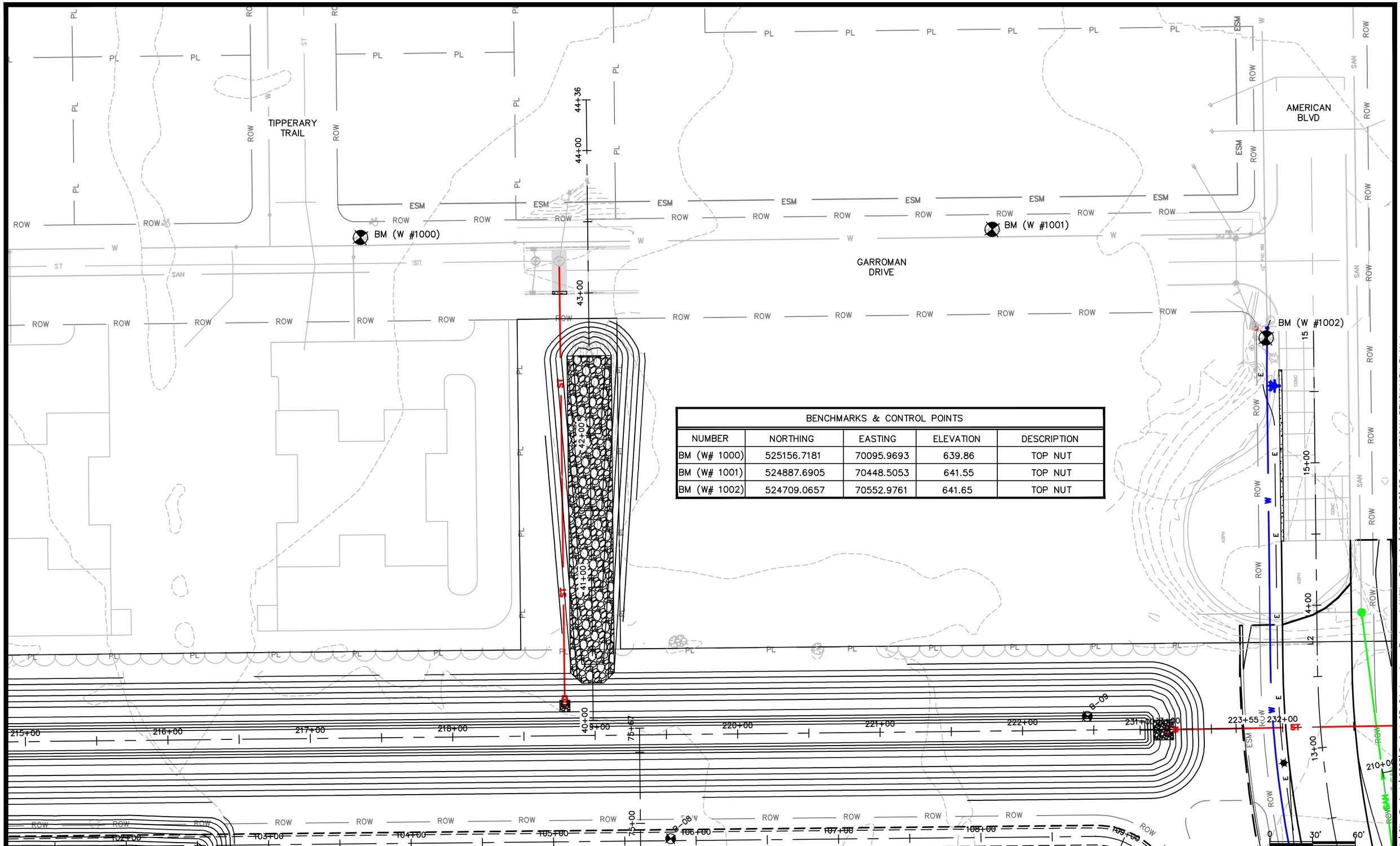

BENCHMARKS & CONTROL POINTS				
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM (W# 1000)	525156.7181	70095.9693	639.86	TOP NUT
BM (W# 1001)	524887.6905	70448.5053	641.55	TOP NUT
BM (W# 1002)	524709.0657	70552.9761	641.65	TOP NUT

DE PERE

CITY OF DE PERE

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115

OFFICE: 920-339-4061 EMAIL: DPPUBWRKS@DEPEREWI.GOV

AMERICAN BOULEVARD

BENCHMARK PLAN

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT 25-04

	BY	DATE
SURVEYED		
DRAWN	MJT	09-2025
DESIGNED		
CHECKED	EPR	11-2025

REVISIONS / ISSUES

NO.	DATE	BY	REMARKS

PAGE NO. C403

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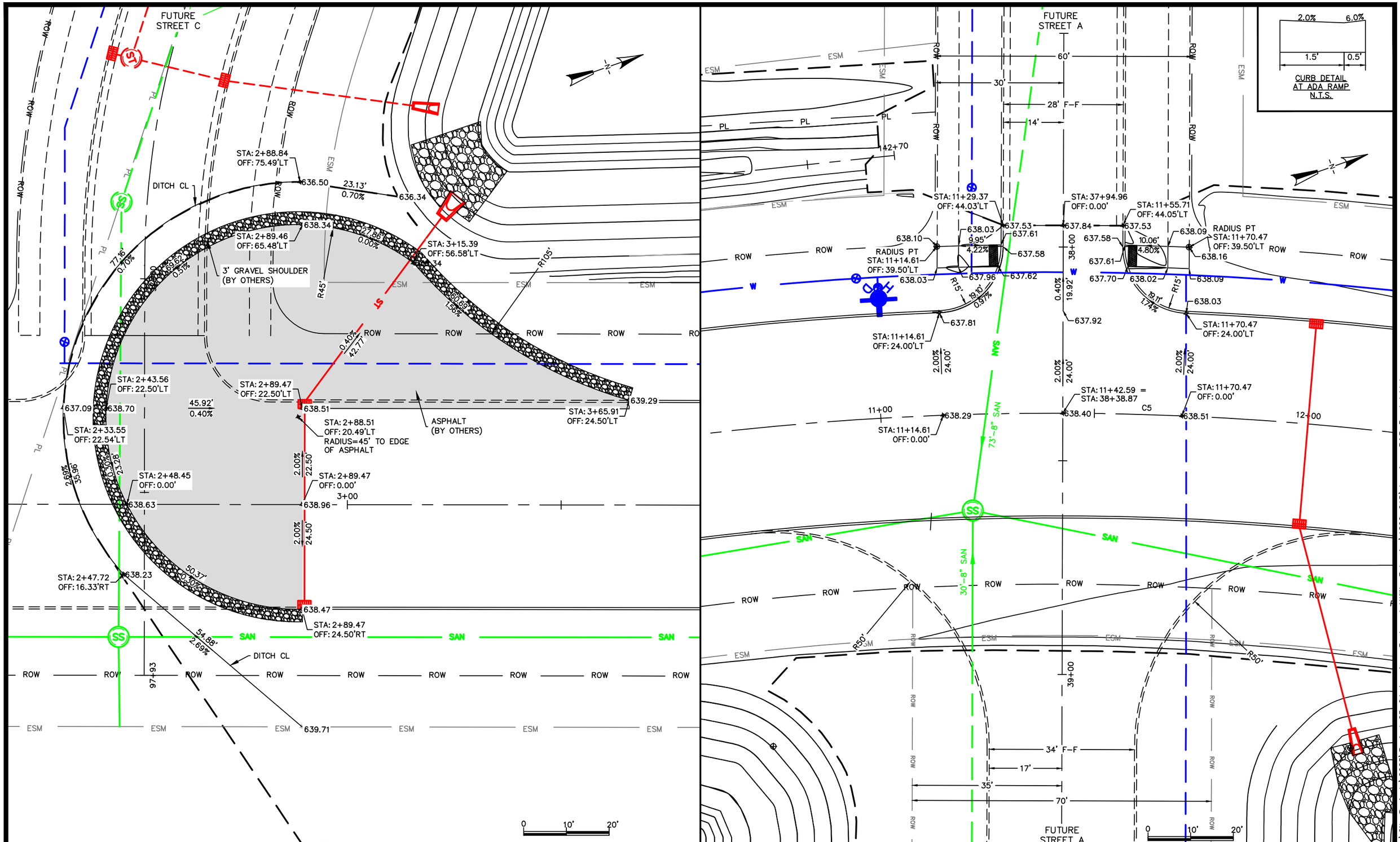

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ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115

OFFICE: 920-339-4061 EMAIL: DPPUBWRKS@DEPEREWI.GOV

AMERICAN BOULEVARD
INTERSECTION GRADES

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT # 25-04

	BY	DATE
SURVEYED	MJT	04-2024
DRAWN	MJT	05-2024
DESIGNED	MJT	06-2024
CHECKED	EPR	09-2024

REVISIONS / ISSUES

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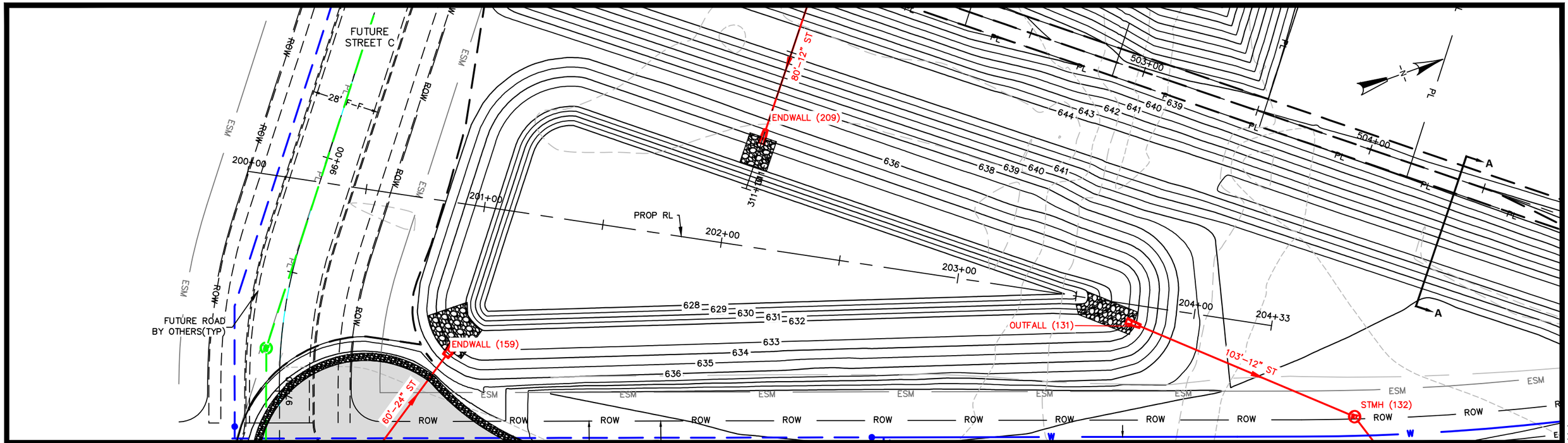

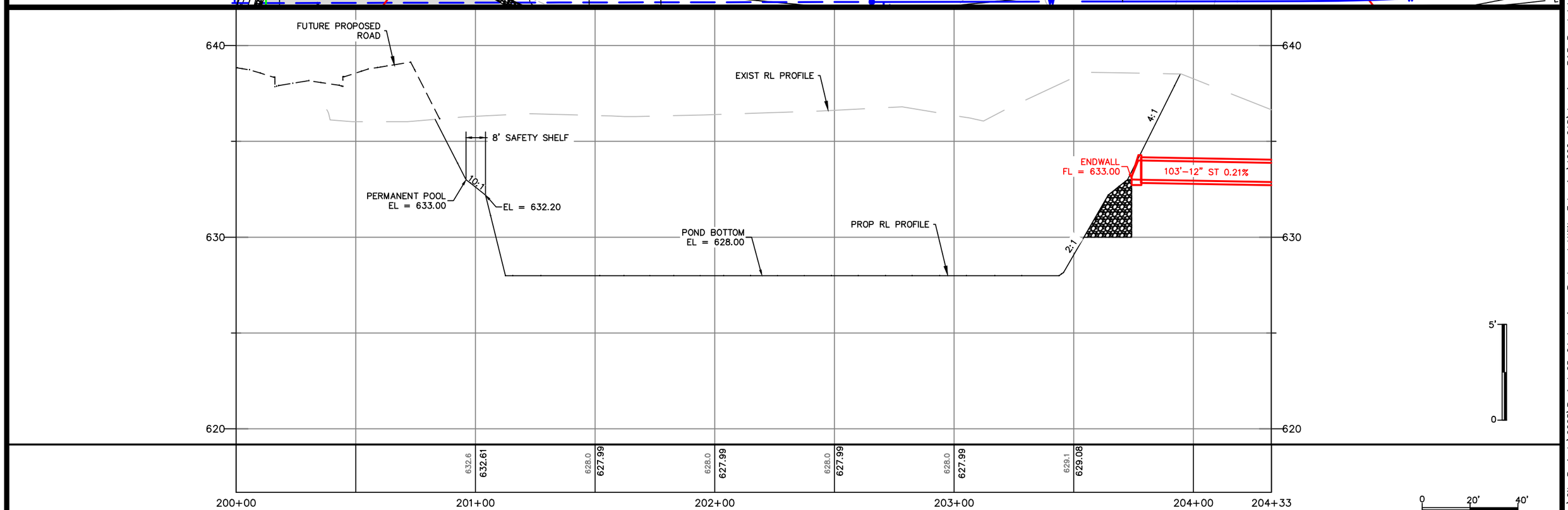

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ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115

OFFICE: 920-339-4061 EMAIL: DPPUBWRKS@DEPEREWI.GOV

AMERICAN BOULEVARD
STORM WATER POND
PLAN AND PROFILE

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT # 25-04

	BY	DATE
SURVEYED	MJT	04-2024
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NO.	DATE	BY	REMARKS

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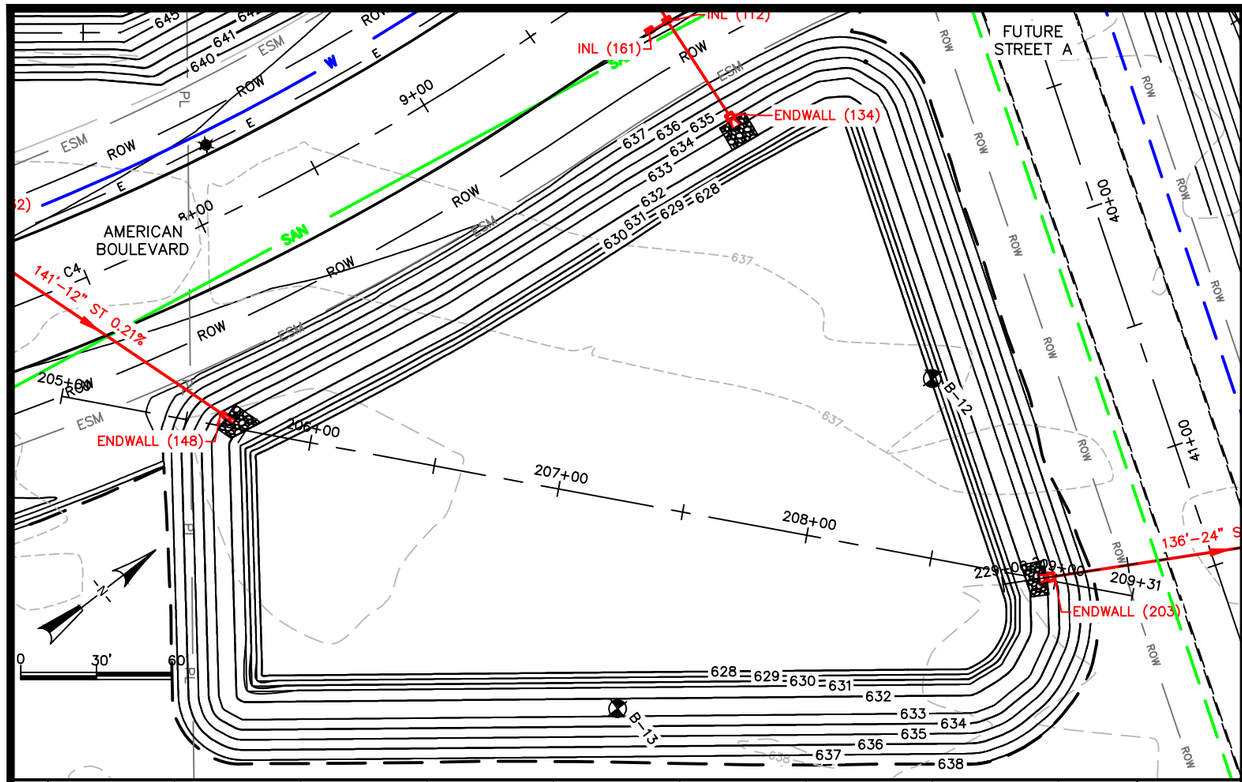

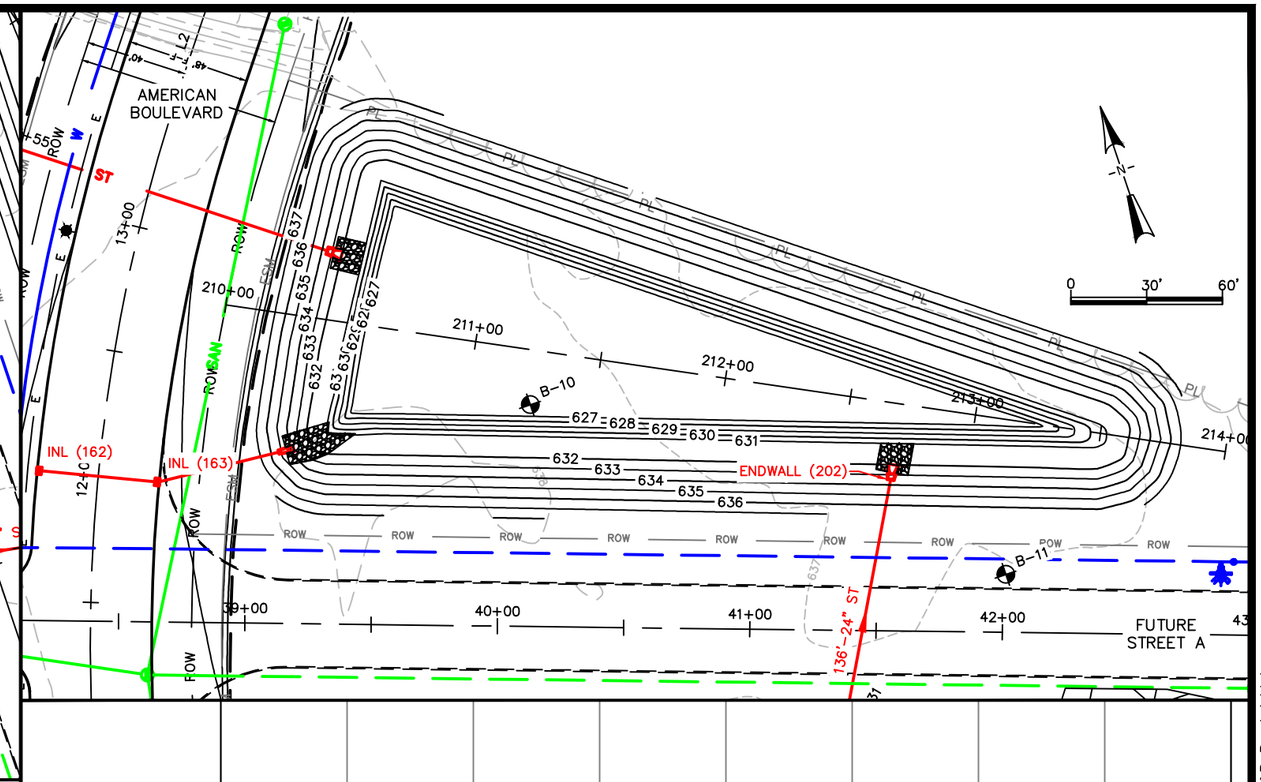

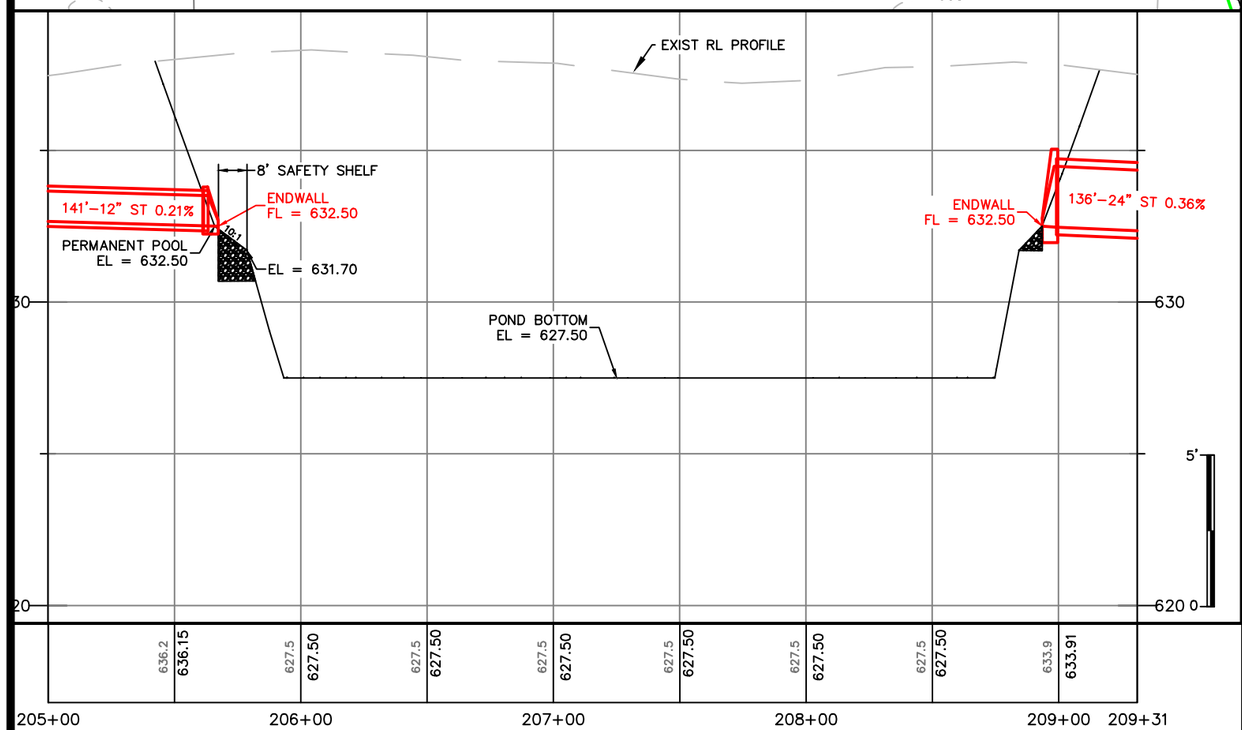

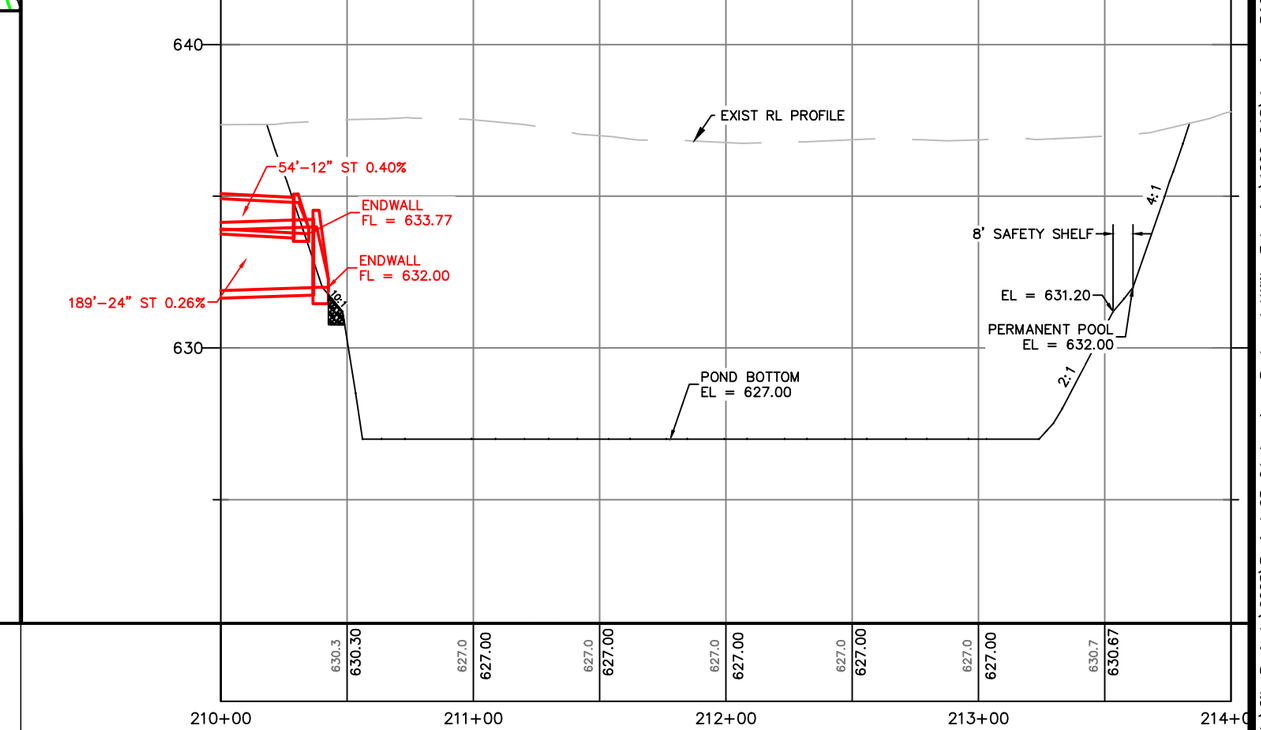

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OFFICE: 920-339-4061 EMAIL: DPPUBWRKS@DEPEREWI.GOV

AMERICAN BOULEVARD

STORM WATER POND

PLAN AND PROFILE

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT # 25-04

	BY	DATE
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REVISIONS / ISSUES

NO.	DATE	BY	REMARKS

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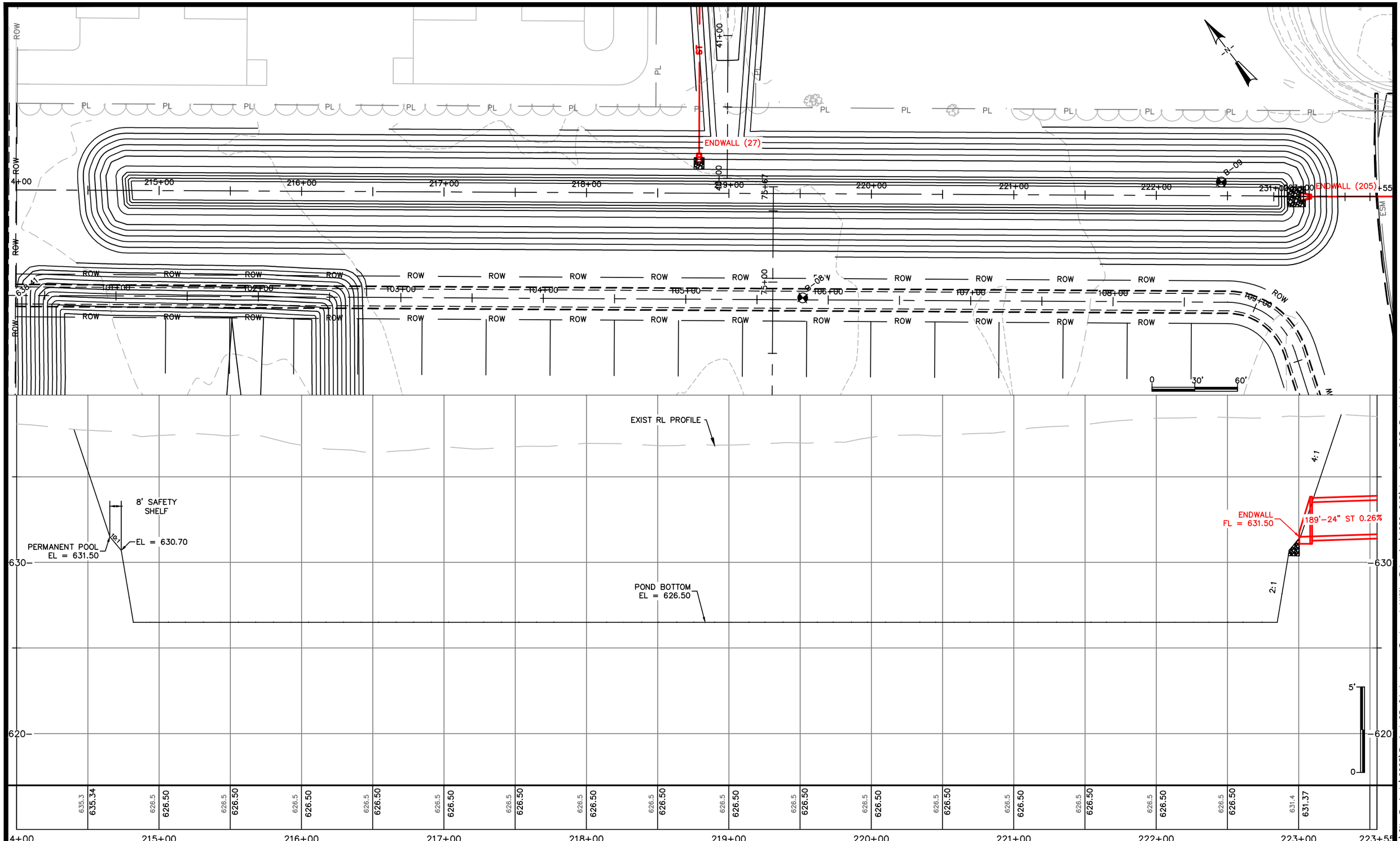

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ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115

OFFICE 920-339-4061 FAX 920-339-4071

AMERICAN BOULEVARD
STORM WATER POND
PLAN AND PROFILE

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT # 25-04

	BY	DATE
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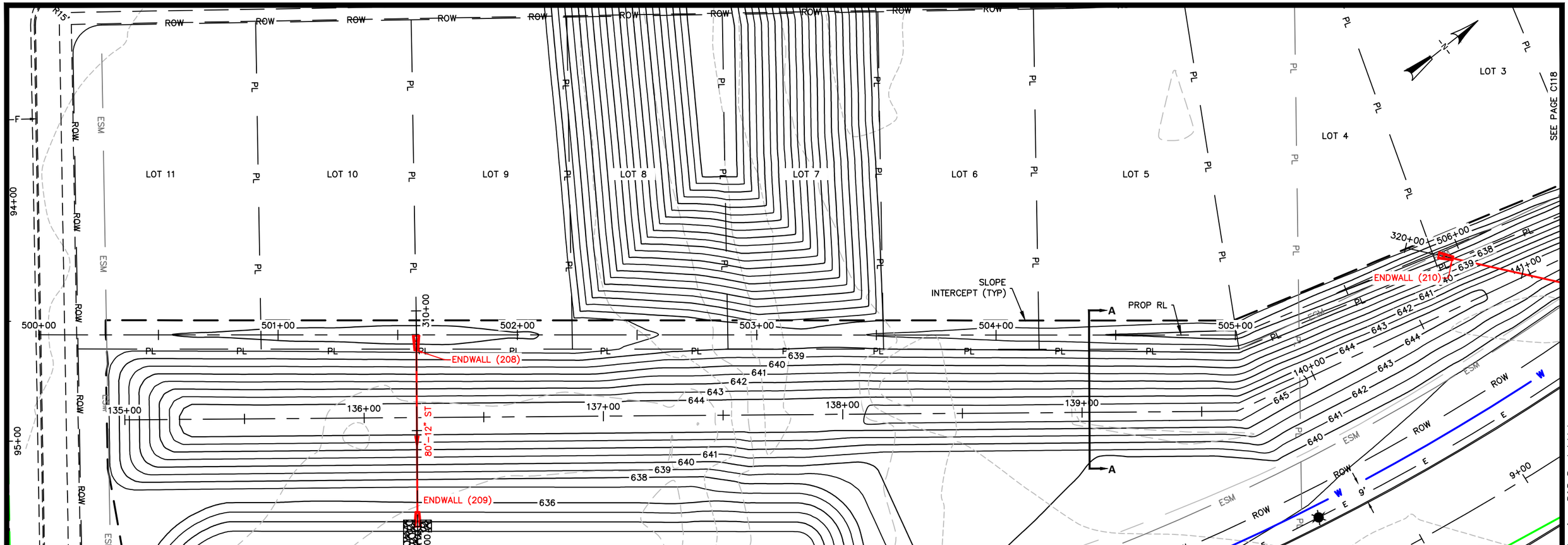

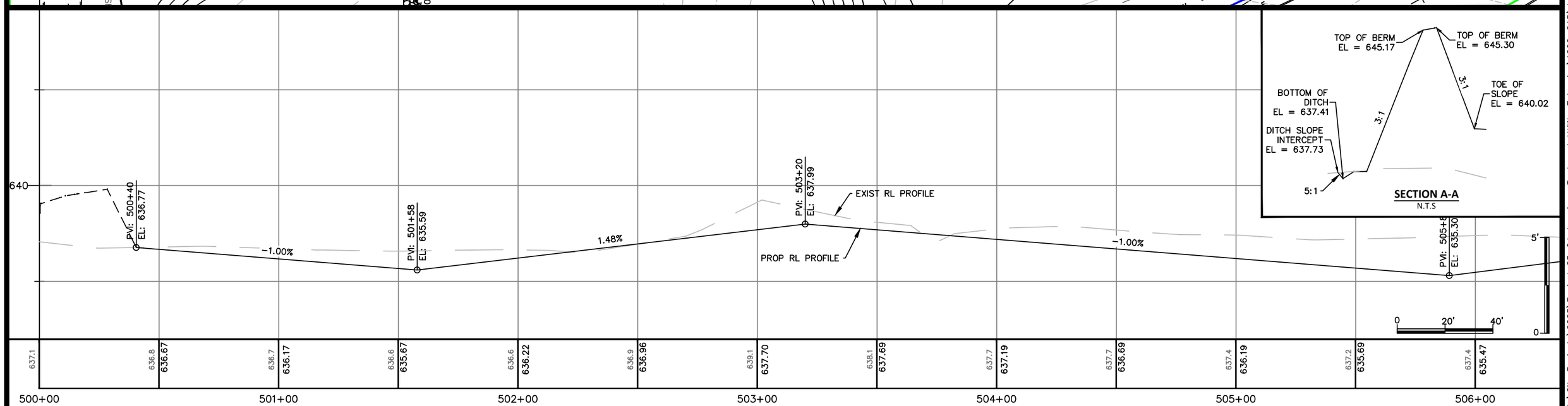

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OFFICE: 920-339-4061 EMAIL: DPPUBWRKS@DEPEREWI.GOV

AMERICAN BOULEVARD

LOT 1 TO LOT 11

BACKYARD SWALE

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT # 25-04

	BY	DATE
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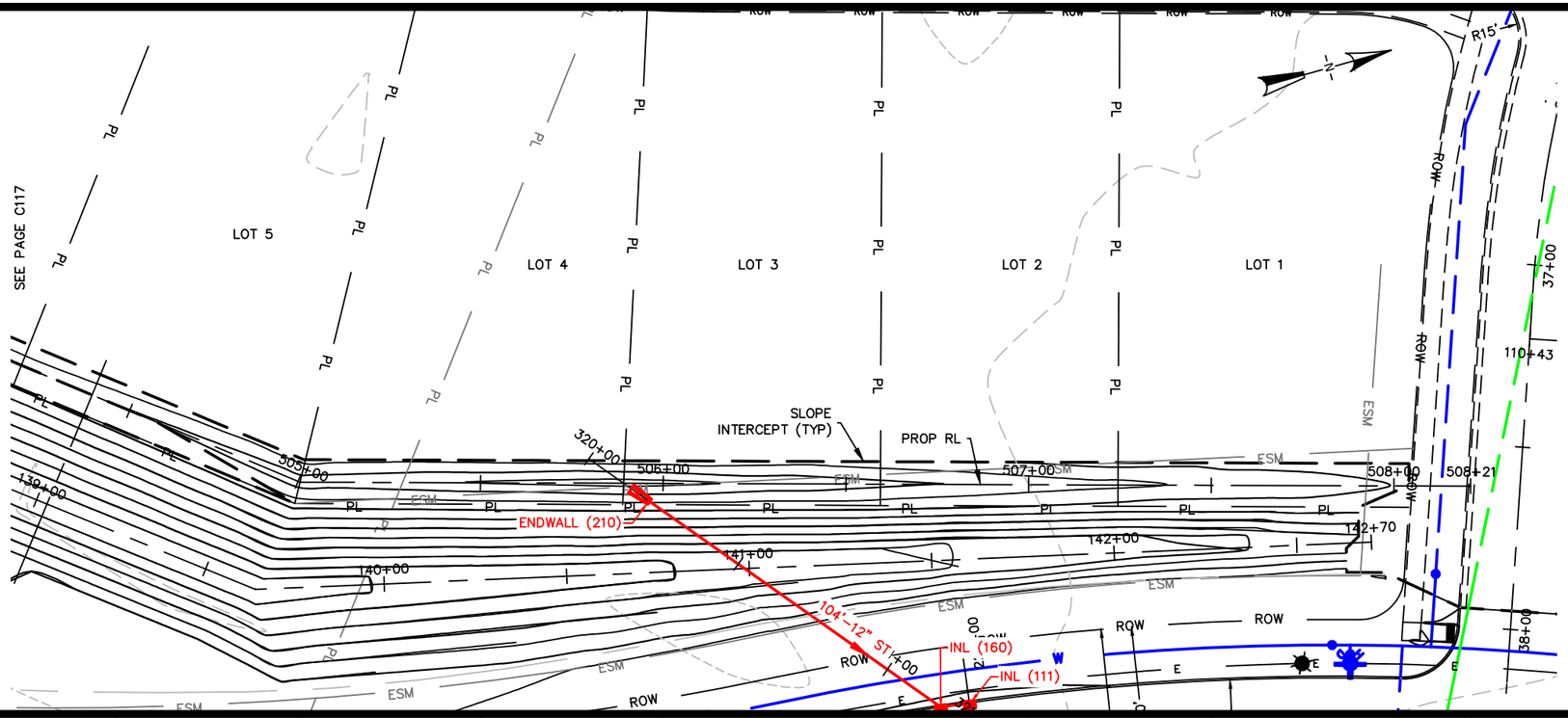

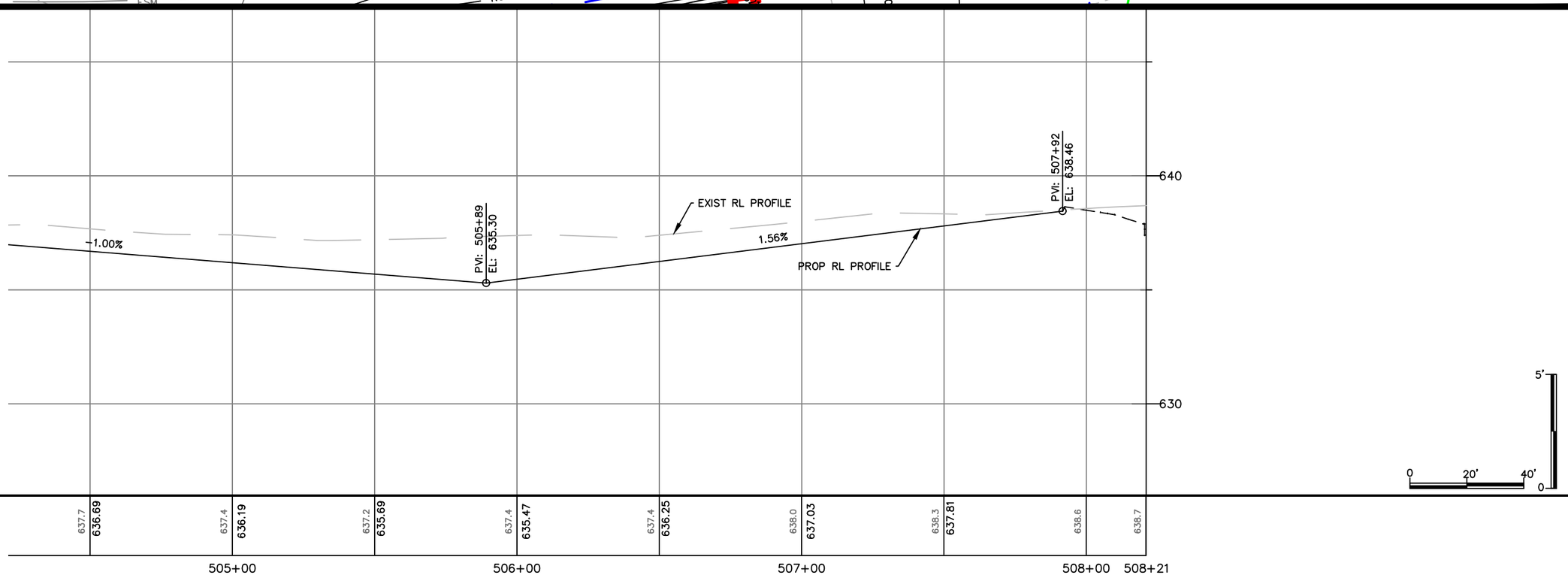

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OFFICE: 920-339-4061 EMAIL: DPPUBWRKS@DEPEREWI.GOV

AMERICAN BOULEVARD

LOT 1 TO LOT 11

BACKYARD SWALE

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT # 25-04

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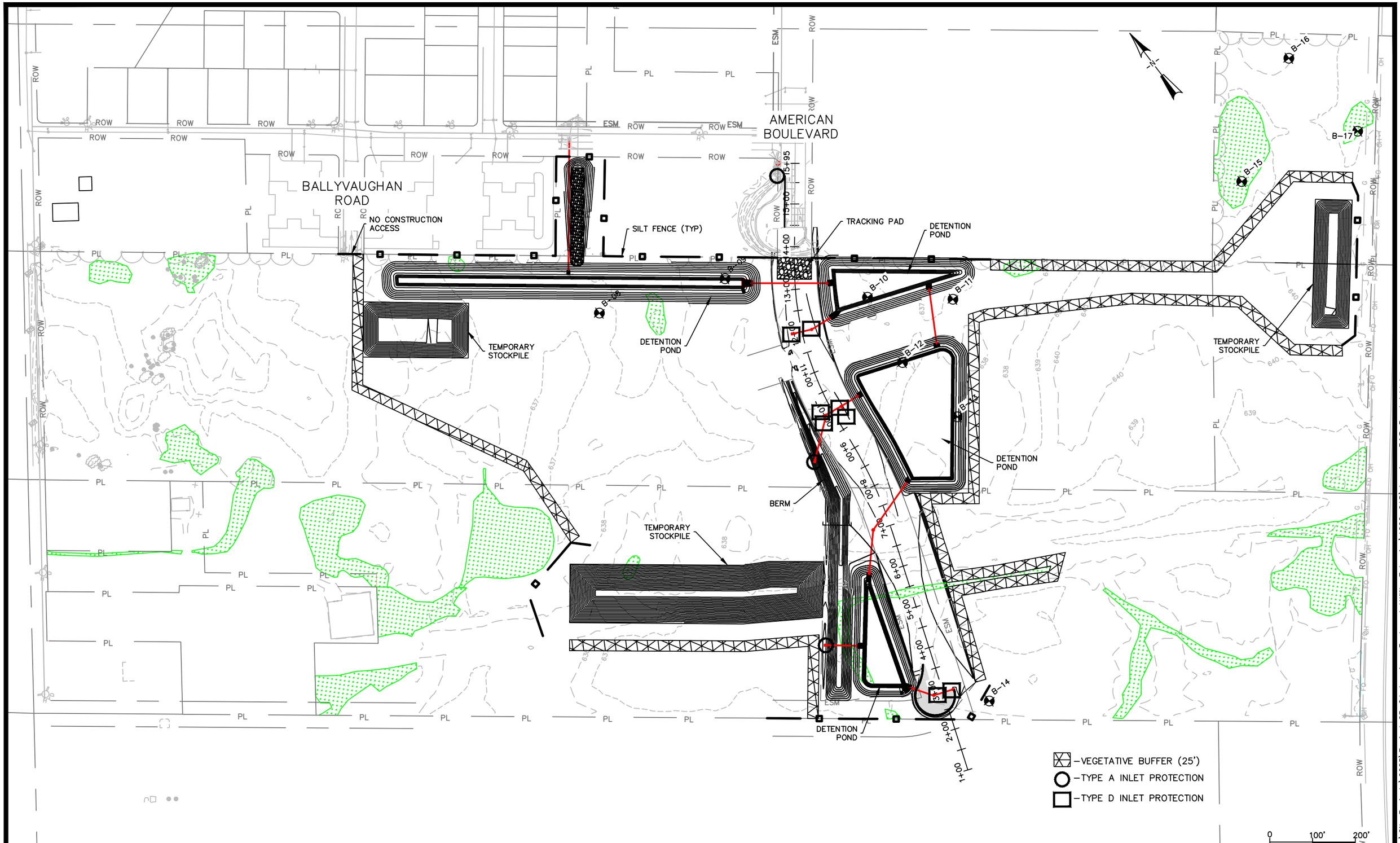

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ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115
OFFICE: 920-339-4061 EMAIL: DPPUBWRKS@DEPEREWI.GOV

EROSION CONTROL MAP

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT # 25-04

	BY	DATE
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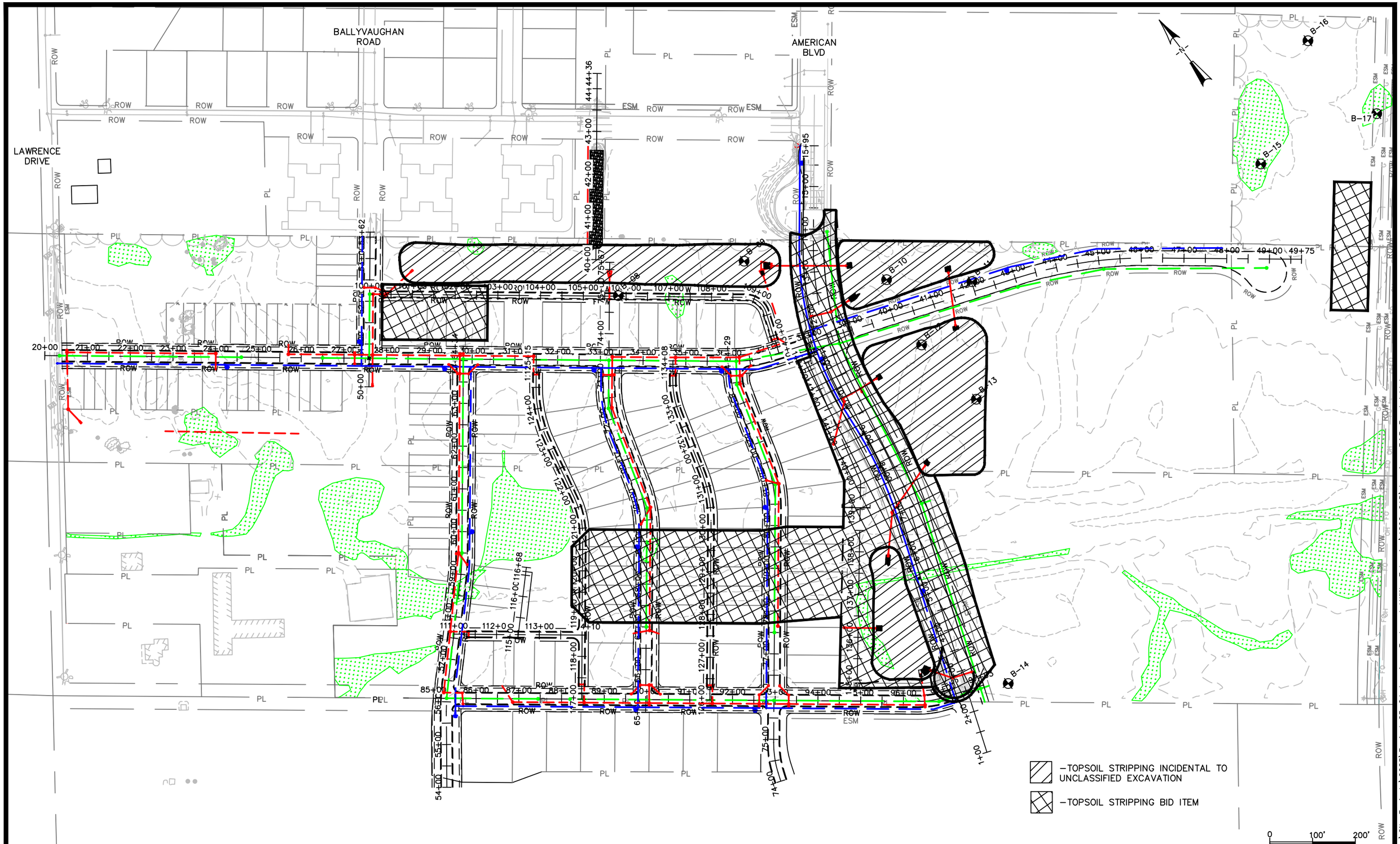

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OFFICE: 920-339-4061 EMAIL: DPPUBWRKS@DEPEREWI.GOV

TOPSOIL STRIPPING MAP

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT # 25–04

	BY	DATE
SURVEYED	MJT	04–2024
DRAWN	KAD	12–2025
DESIGNED	KAD	06–2024
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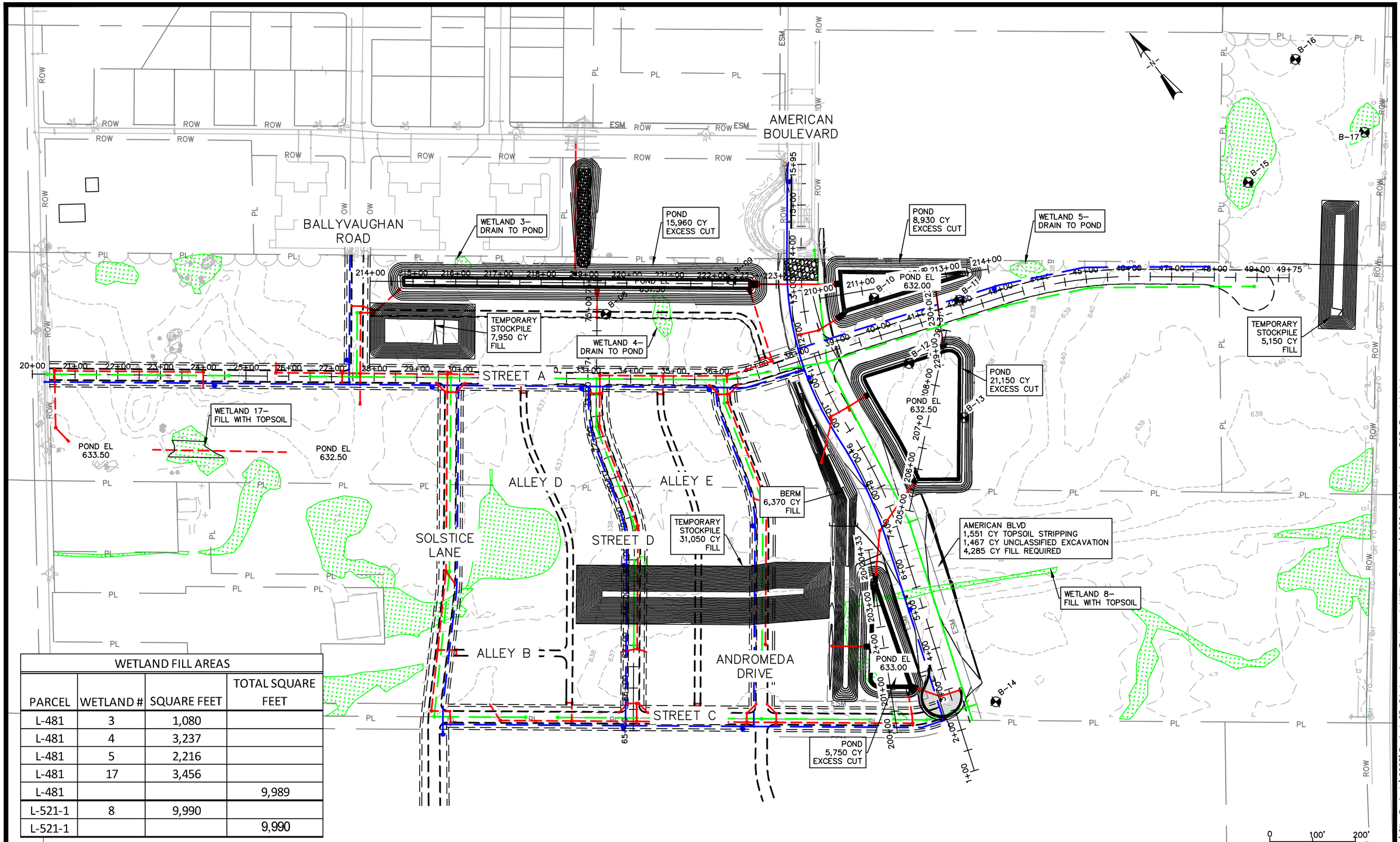

WETLAND FILL AREAS			
PARCEL	WETLAND #	SQUARE FEET	TOTAL SQUARE FEET
L-481	3	1,080	
L-481	4	3,237	
L-481	5	2,216	
L-481	17	3,456	
L-481			9,989
L-521-1	8	9,990	
L-521-1			9,990

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CITY OF DE PERE

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115

OFFICE: 920-339-4061 EMAIL: DPPUBWRKS@DEPEREWI.GOV

GRADING AND EXCAVATION BALANCE PLAN

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT # 25–04

	BY	DATE
SURVEYED	MJT	04–2024
DRAWN	MJT	05–2024
DESIGNED	MJT	06–2024
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REVISIONS / ISSUES

NO.	DATE	BY	REMARKS

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BALLYVAUGHAN ROAD

TEMPORARY STOCKPILE LOCATION

TEMPORARY STOCKPILE ACCESS ROUTE

FUTURE STREET A

TEMPORARY STOCKPILE ACCESS ROUTE

TEMPORARY STOCKPILE LOCATION

LANDSCAPE – TOPSOIL, MESIC PRAIRIE PLANTING, FERTILIZER AND EROSION MAT CLASS I URBAN

LANDSCAPE – TOPSOIL, SEED, MULCH AND FERTILIZER

LANDSCAPE – TOPSOIL, TEMPORARY NURSE CROP AND MULCH

LANDSCAPE – TOPSOIL, MESIC PRAIRIE PLANTING, FERTILIZER AND MULCH

MEDIUM RIP RAP WITH GEOTEXTILE FABRIC (TYPE HR)

SEE PAGE C414

0 40' 80'

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CITY OF DE PERE

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115

OFFICE: 920-339-4061 EMAIL: DPPUBWRKS@DEPEREWI.GOV

AMERICAN BOULEVARD

RESTORATION PLAN

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

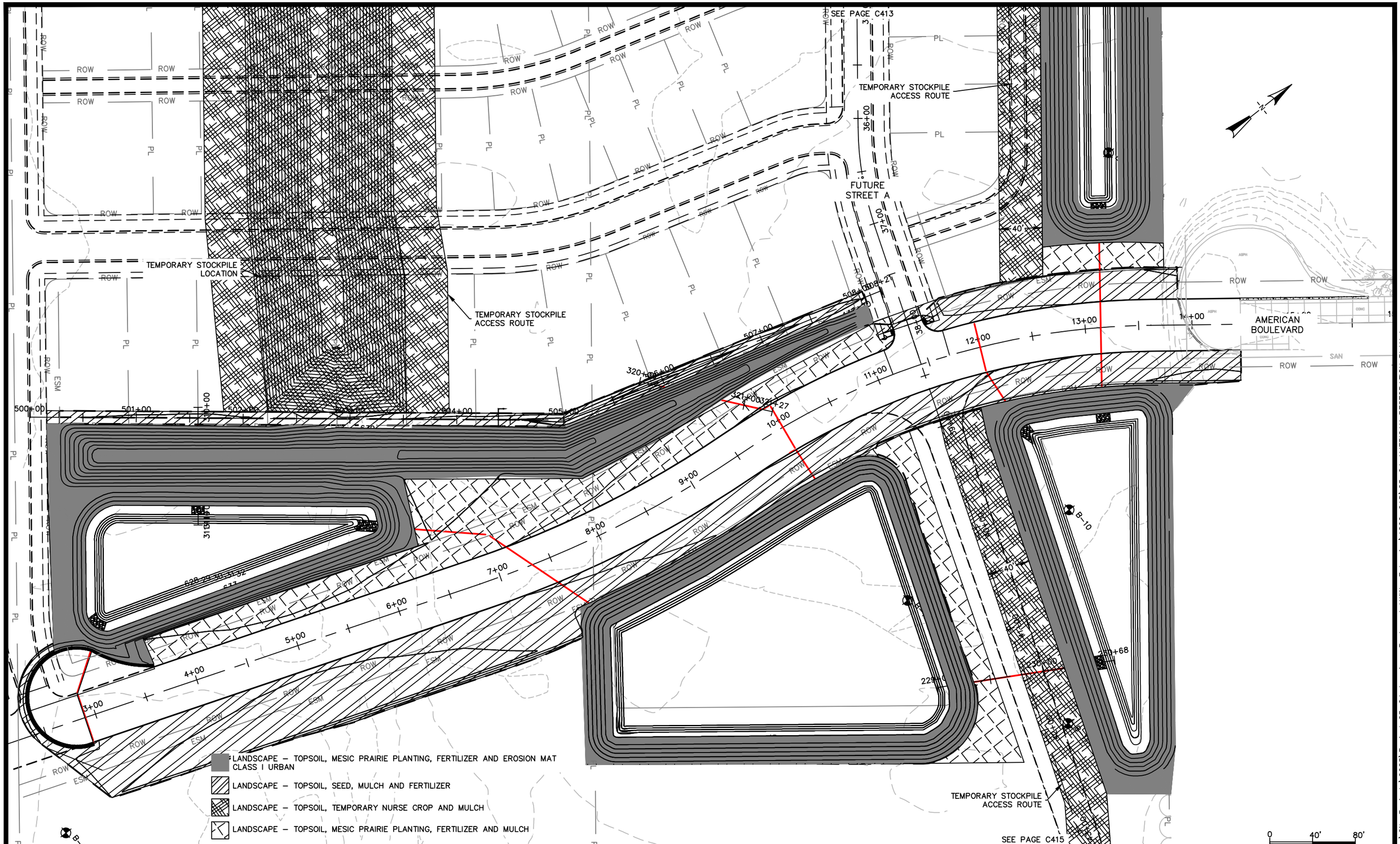
PROJECT 25-04

	BY	DATE
SURVEYED		
DRAWN	KAD	12-2025
DESIGNED		
CHECKED	EPR	12-2025

REVISIONS / ISSUES

NO.	DATE	BY	REMARKS

PAGE NO. C413



DE PERE

CITY OF DE PERE

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115

OFFICE: 920-339-4061 EMAIL: DPPUBWRKS@DEPEREWI.GOV

AMERICAN BOULEVARD

RESTORATION PLAN

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT 25–04

	BY	DATE
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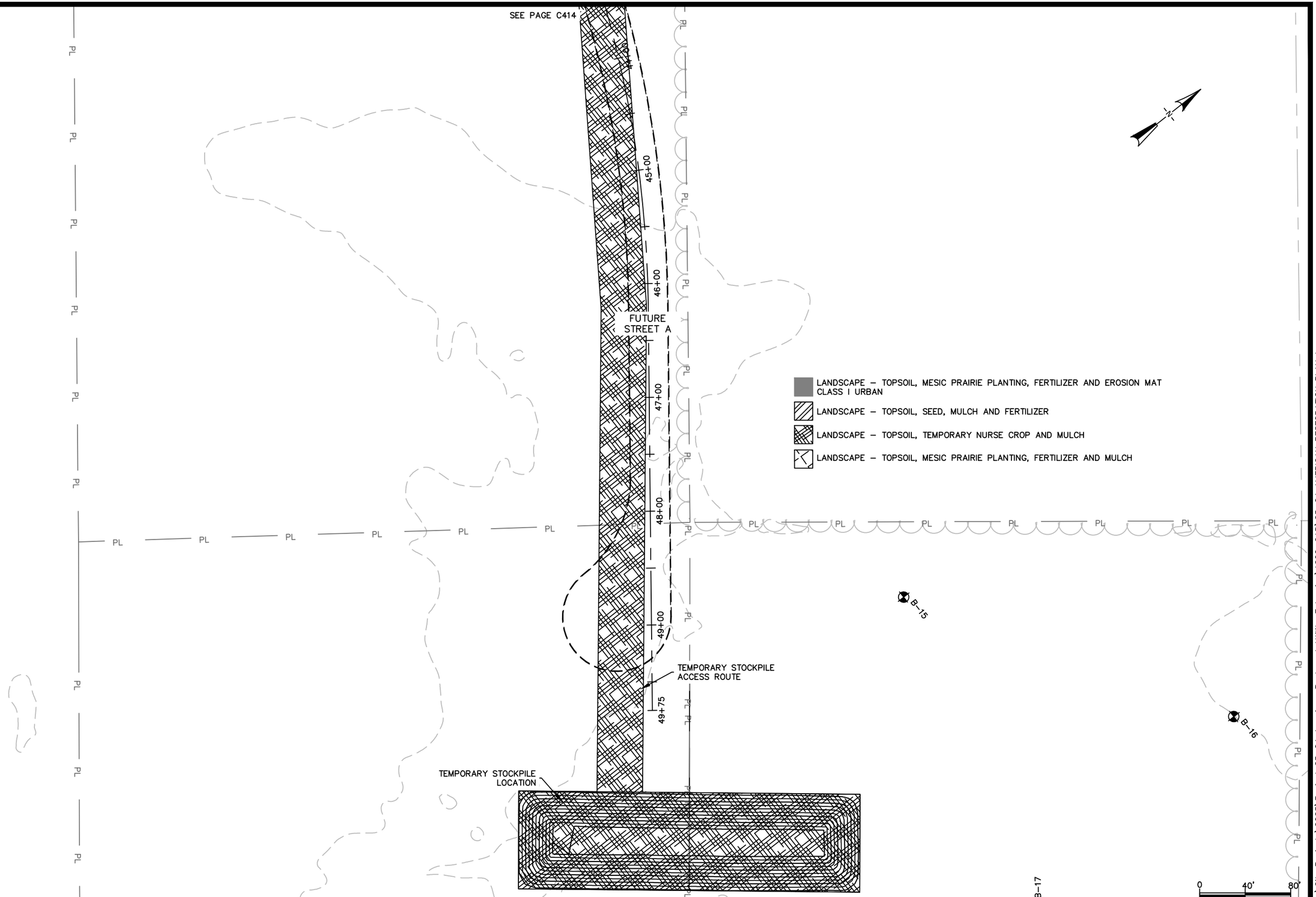

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ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115

OFFICE: 920-339-4061 EMAIL: DPPUBWRKS@DEPEREWI.GOV

AMERICAN BOULEVARD
RESTORATION PLAN

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT 25–04

	BY	DATE
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PAGE NO. C415

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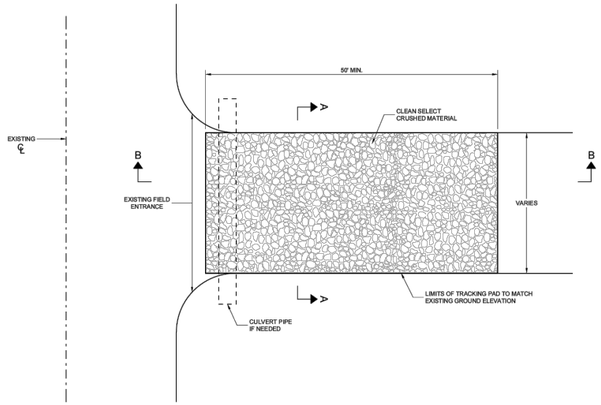
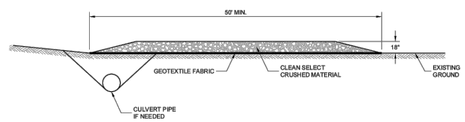
SDD 08E14 Tracking Pad





SECTION B - B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

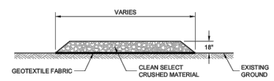
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A - A

6

SDD 08E14 - 01

TRACKING PAD

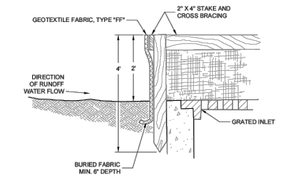
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

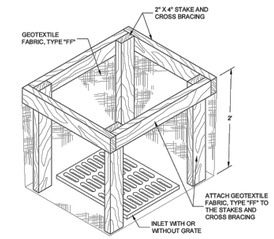
APPROVED 3/24/2011 (DATE) /S/ Jerry H. Zogg (ROADWAY STANDARDS DEVELOPMENT ENGINEER)

FHWA

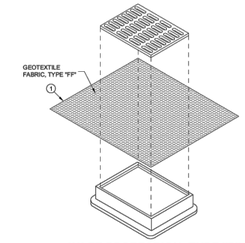
SDD 08E14 - 01

SDD 08E10 Inlet Protection, Types A, B, C and D

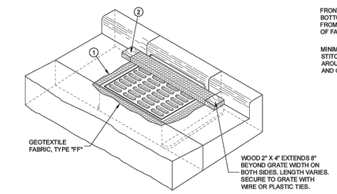




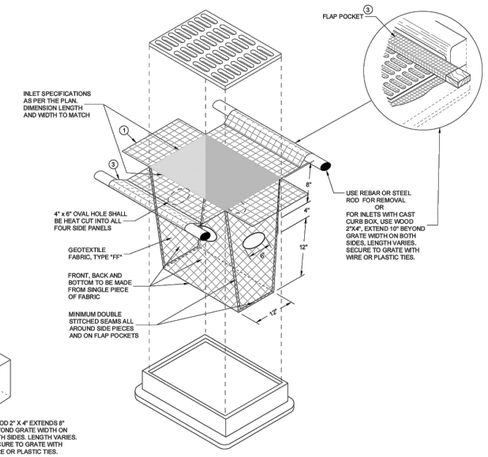
INLET PROTECTION, TYPE "A"



INLET PROTECTION, TYPE "B"
(WITHOUT CURB BOX)
(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE "C"
(WITH CURB BOX)



INLET PROTECTION, TYPE "D"
(CAN BE INSTALLED IN ANY INLET WITH OR WITHOUT A CURB BOX AS PER NOTE 2.)

6

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

1. FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
2. FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
3. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPES B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION TYPES A, B, C AND D

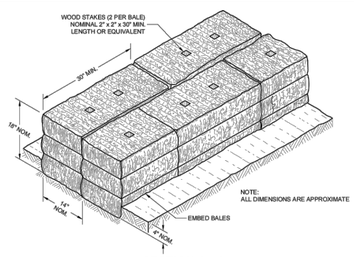
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 10/15/02 (DATE) /S/ Beth Cannestra (ROADWAY STANDARDS DEVELOPMENT ENGINEER)

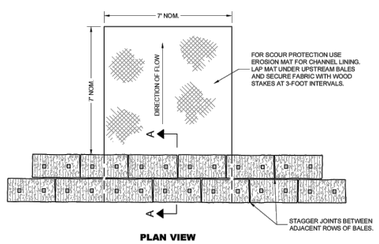
FHWA

SDD 08E10 - 02

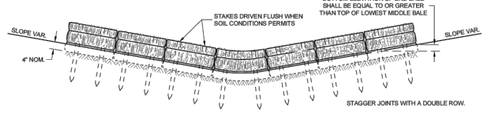
SDD 08E08 Typical Installations of Erosion Bales / Temporary Ditch Checks



SECTION A - A



PLAN VIEW



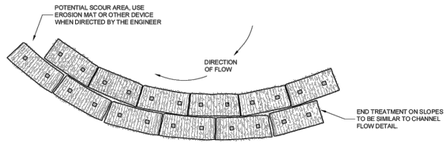
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES 1

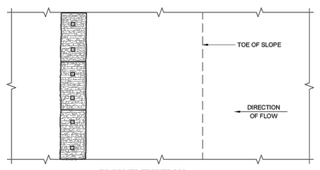
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

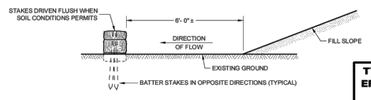
1. TEMPORARY DITCH CHECKS, EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



PLAN VIEW
WHEN ALTERING THE DIRECTION OF FLOW



PLAN ELEVATION



FRONT ELEVATION
WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

6

SDD 08E08 - 03

TYPICAL INSTALLATIONS OF EROSION BALES/TEMPORARY DITCH CHECKS

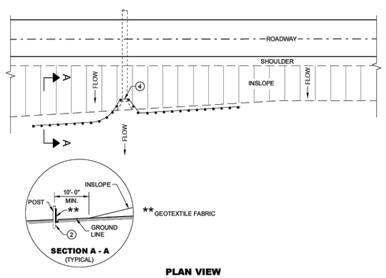
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 6/4/03 (DATE) /S/ Beth Cannestra (CHIEF ROADWAY DEVELOPMENT ENGINEER)

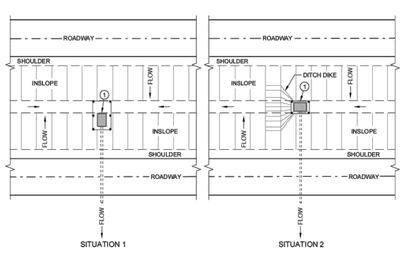
FHWA

SDD 08E08 - 03

SDD 08E09 Silt Fence



PLAN VIEW
TYPICAL APPLICATION OF SILT FENCE

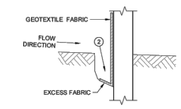


PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

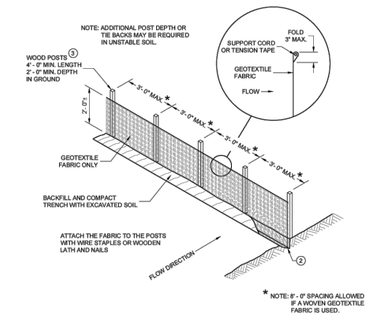
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

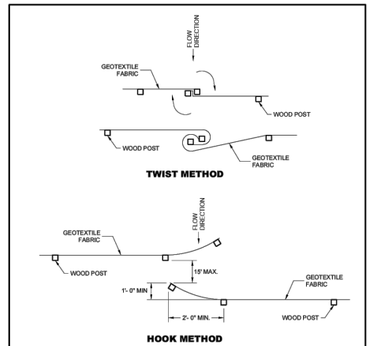
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE AND 8" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 3/2" X 1 3/2" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



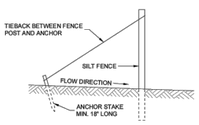
TRENCH DETAIL



SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

6

SDD 08E09 - 06

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 4/28/06 (DATE) /S/ Beth Cannestra (CHIEF ROADWAY DEVELOPMENT ENGINEER)

FHWA

SDD 08E09 - 06

DE PERE

CITY OF DE PERE

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115

OFFICE: 920-339-4061 EMAIL: DPPUBWRKS@DEPEREWI.GOV

AMERICAN BOULEVARD

CONSTRUCTION DETAILS

NAME: AMERICAN BOULEVARD UTILITY EXTENSION

PROJECT 25–04

	BY	DATE
SURVEYED		
DRAWN		
DESIGNED		
CHECKED	EPR	11–2025

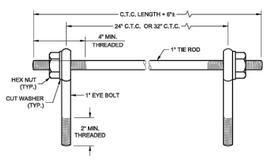
REVISIONS / ISSUES

NO.	DATE	BY	REMARKS

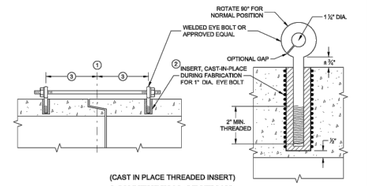
PAGE NO. C501

X:\ENG\Projects\City Projects\2025\Project 25–04 American_Boulevard_Utility_Extension\1200–CAD\25–04 CONSTRUCTION DETAILS.dwg

SDD 08F04 Joint Ties for Concrete Pipe and Concrete Collar Detail



EYE BOLTS AND TIE ROD



LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

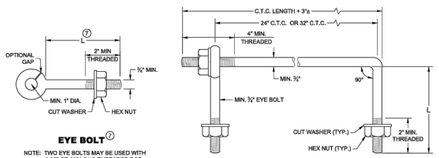
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES. UNLESS OTHERWISE STATED IN THE CONTRACT, THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

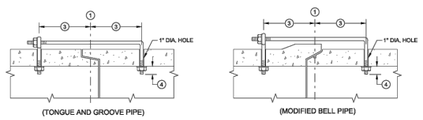
1. CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
2. THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.
3. HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.
4. BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
5. OPENING TO BE ROD DIAMETER PLUS 1 INCH.
6. LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.
7. EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.



EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 36" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.

EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE) (MODIFIED BELL PIPE)

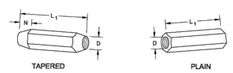
LONGITUDINAL SECTION
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

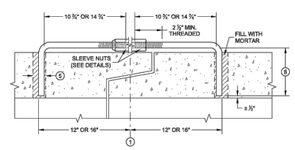
PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	¾	5	⅞
66 - 84	¾	¾	5	⅞
90 - 144	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES



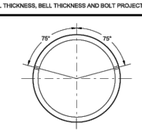
TAPERED PLAIN

RIGHT AND LEFT THREADS
SLEEVE NUTS



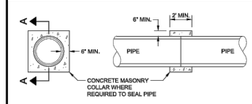
LONGITUDINAL SECTION

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED November 2021 DATE — /S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT ENGINEER — FHWA

SDD 08F04 - 08

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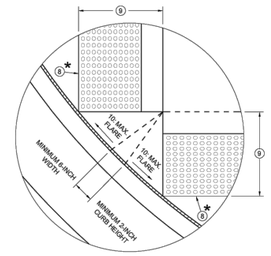
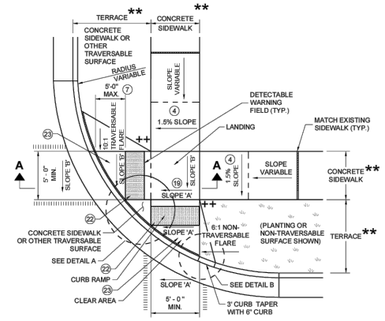


DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

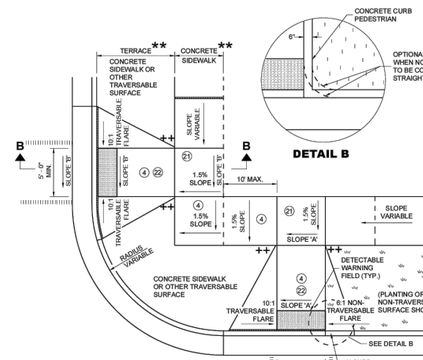
GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

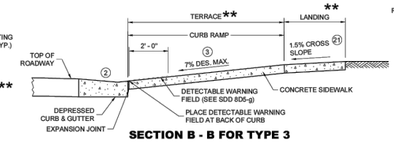
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.

2. GRADE CHANGE BETWEEN GUTTER COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.
3. MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.
4. ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
7. WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.
8. PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
9. WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% DESIGN MAXIMUM SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% DESIGN MAXIMUM SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.
17. A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.
19. WHERE A LANDING SERVES TWO CURB RAMPS, THE LANDING SLOPE SHALL NOT EXCEED THE CROSS SLOPE AT THE BOTTOM OF THE RAMP OR WITHIN THE CROSSWALK PARALLEL TO THE DIRECTION OF TRAVEL.
21. PROVIDE A LANDING WITH A SLOPE PARALLEL TO ROADWAY THAT MATCHES SLOPE AT THE BOTTOM OF THE ADJACENT RAMP. SLOPE PERPENDICULAR TO ROADWAY SHALL BE 2.1% MAXIMUM. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.
22. THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.
23. THE CLEAR AREA BETWEEN THE BOTTOM OF RAMP AND BACK OF CURB SHALL BE SLOPED SO THAT WATER DRAINS OUT OF ONE SIDE OR BOTH SIDES OF THE CURB OPENING.

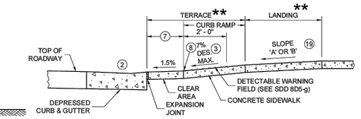


DETAIL B

PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



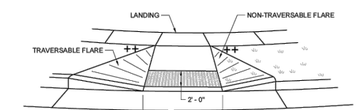
SECTION B - B FOR TYPE 3



SECTION A - A FOR TYPE 2

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)
- * MAXIMUM 2.1% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK
- ** WIDTH SHOWN ELSEWHERE IN THE PLANS
- ++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

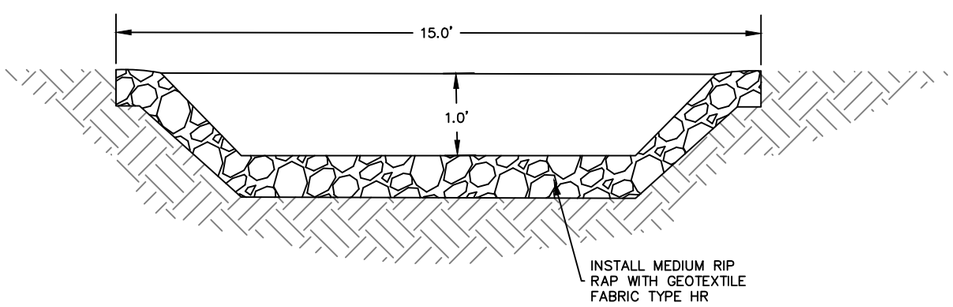


VIEW C - C FOR TYPE 3

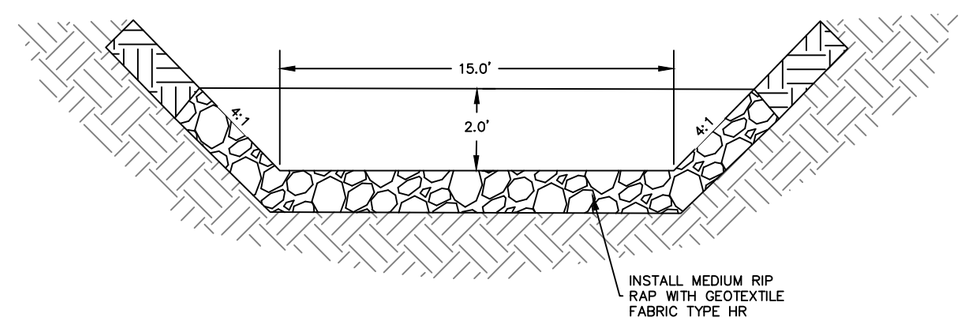
CURB RAMPS
TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D05-22b



STORM ENDWALL RIP RAP DETAIL



POND EMERGENCY OVERFLOW DETAIL

DE PERE
CITY OF DE PERE
ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115
OFFICE: 920-339-4061 EMAIL: DPPUBWRKS@DEPEREWI.GOV

AMERICAN BOULEVARD
CONSTRUCTION DETAILS

NAME: AMERICAN BOULEVARD UTILITY EXTENSION
PROJECT 25-04

	BY	DATE
SURVEYED		
DRAWN		
DESIGNED		
CHECKED	EPR	11-2025

REVISIONS / ISSUES

NO.	DATE	BY	REMARKS

PAGE NO. C502

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