

THE METROPOLITAN SEWER DISTRICT
OF GREATER CINCINNATI
HAMILTON COUNTY

CONTRACT
DRAWING
PRINTS NOT BEARING THIS STAMP WERE
MADE PRIOR TO ADVERTISING FOR BIDS
AND ARE TO BE CONSIDERED OBSOLETE
FOR CONTRACT PURPOSES.

PROPOSED PROJECT NO. 10370025
KENWOOD HILLS
LOCAL SEWER

NOTES:

MANHOLES: ALL PROPOSED MANHOLES AND DROP MANHOLES SHALL BE TYPE "S". ALL MANHOLES LOCATED OUTSIDE OF ROAD RIGHT-OF-WAY AND OUTSIDE OF MAINTAINED RESIDENTIAL YARDS SHALL HAVE MANHOLE TOPS 18" ABOVE GROUND. THE STANDARD PRECAST MANHOLE BASE WITH FLEXIBLE MANHOLE JOINTS SHALL BE USED WITH P.V.C. PIPE. IF THE CONTRACTOR PROVIDES PRECAST MANHOLES, THE CONTRACTOR SHALL ASSUME ANY RISK OF MAKING FIELD MODIFICATIONS TO THE PRECAST MANHOLES, DUE TO FIELD CONDITIONS

PIPE JOINTS: ALL PROPOSED CONDUIT SHALL HAVE RESILIENT AND FLEXIBLE JOINTS.

HOUSE CONNECTIONS: ALL HOUSE CONNECTIONS SHALL BE TYPE "I" CONDUIT WITH RESILIENT AND FLEXIBLE JOINTS, EITHER P.V.C. OR ABS CONDUIT, SDR35 WITH ASTM D-3212 FLEXIBLE ELASTOMERIC SEALS.

UNDERGROUND STRUCTURES: LOCATION OF UNDERGROUND STRUCTURES ARE NOT GUARANTEED. APPROXIMATE LOCATION OF GAS, WATER & ELECTRIC SERVICE LATERALS ARE SHOWN IN PLAN VIEW ONLY.

OVERHEAD UTILITY LINES: LOCATION OF ABOVEGROUND UTILITY LINES ARE NOT SHOWN ON THE DRAWINGS. CONTRACTOR SHALL VISIT PROJECT SITE PRIOR TO BIDDING TO VERIFY OVERHEAD UTILITIES.

ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.

THE CONTRACTOR SHALL FURNISH ALL MANHOLE FRAMES AND COVERS.

ALL FENCING DAMAGED BY SEWER CONSTRUCTION SHALL BE REPLACED IN KIND BY THE CONTRACTOR AND ALL ASSOCIATED COSTS SHOULD BE INCLUDED WITH VARIOUS CONTRACT ITEMS.

ALL ATU AND COLLECTOR/STORM TO REMAIN IN SERVICE.

BENCH MARKS:

BM #1:
HAMILTON COUNTY/CITY OF CINCINNATI MONUMENTS
HAMILTON COUNTY 2009, 2012, 2420, 4086, 8031, 8405
CITY OF CINCINNATI MONUMENT 6913

DESIGN EXCEPTION

SLOPE OF 0.40% IS EXCEPTION TO THE MSDGC STANDARD OF 0.70%
0.40% MEETS THE MINIMUM SLOPE FOR THE 10 STATE STANDARDS.

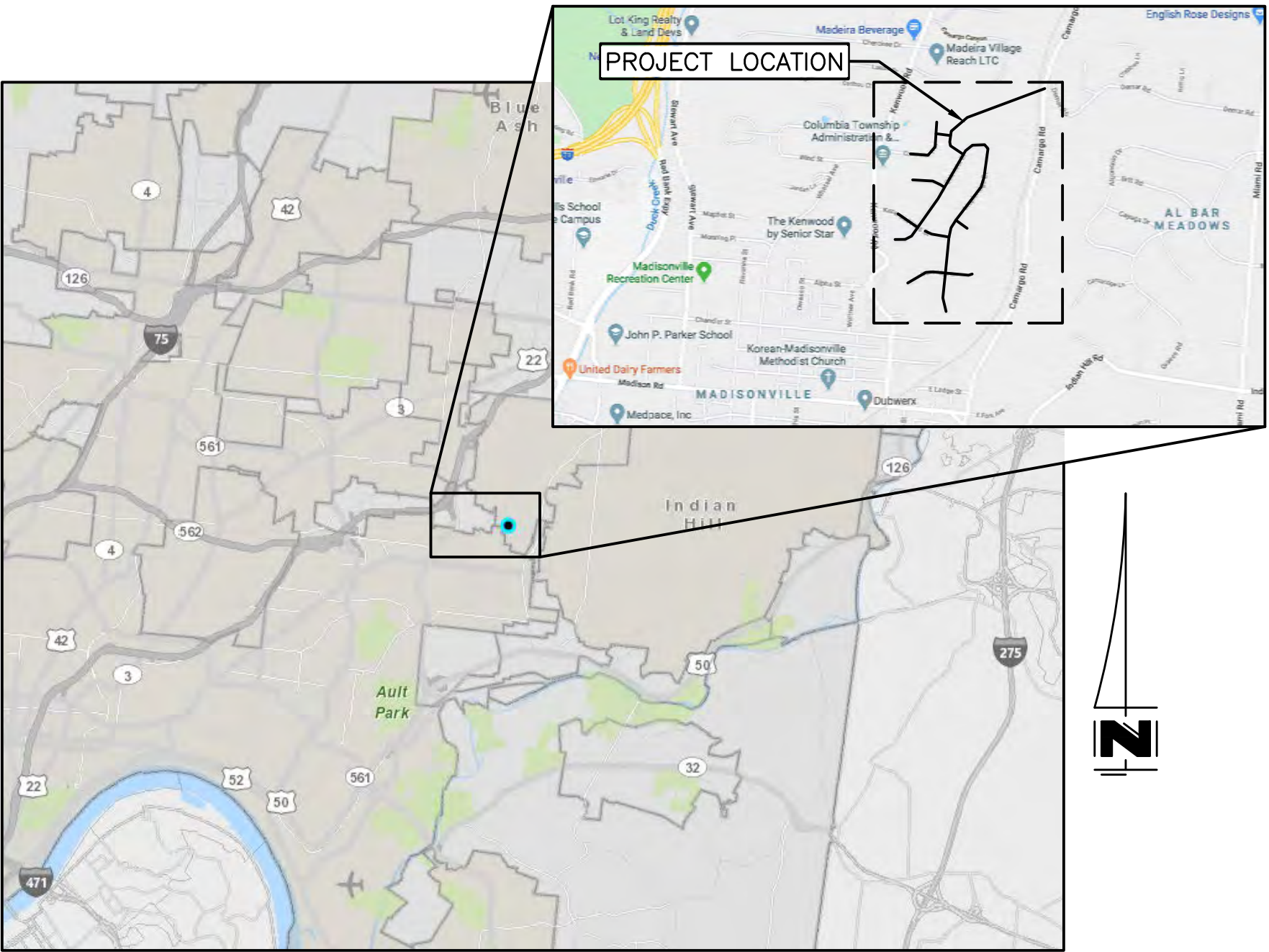
FOR A SERVICE CONNECTION TO A LOW PRESSURE FORCE MAIN THE CONTRACTOR FOLLOW STANDARD DRAWING ACCESSION # 49069 STANDARD BUILDING CONNECTION TO A LOW PRESSURE FORCE MAIN EXCEPT THE CONTRACTOR SHALL DISREGARD THE "5'0" MAX." COVER DIMENSION.

DATUM:

HORIZONTAL: NAD 83
VERTICAL: NGVD 29



ENGINEERS SEAL



VICINITY MAP

NO SCALE

SUBJECT TO REVISION

STANDARDS:
(SEE MSDGC STANDARD DRAWINGS)

DESCRIPTION

STANDARD DROP MANHOLE	49003
TYPICAL INVERTS	49004
STANDARD CASTINGS FOR MANHOLES	49005
STANDARD CONCRETE COLLARS ON CONDUITS	49031
CONTROL DIMENSIONS FOR TYPICAL TRENCHES FOR CONDUITS	49032
TYPICAL BUILDING SEWERS AND STACKS	49033
STANDARD, (TYPE "S") MANHOLE	49037
STANDARD CONCRETE CRADLE AND ENCASMENT	49044
STANDARD MANHOLE FOR SANITARY CONDUITS ON STEEP SLOPE	49046
MODIFIED, (TYPE "S") MANHOLE	49049
WATERTIGHT MANHOLE	49051
STANDARD PRECAST CONCRETE MANHOLE BASE	49056
TYPICAL INSTALLATION OF BUILDING SEWER LATERAL	49060
LOW PRESSURE FORCE MAIN TYPICAL RECEIVING MANHOLE	49063
STANDARD BUILDING CONNECTION TO A LOW PRESSURE FORCE MAIN	49069
STANDARD SYMBOLS	49072 TO 49076
STANDARD TWO WAY CLEANOUT FOR BUILDING SEWERS	61979
STANDARD CASTINGS OVER TWO WAY CLEANOUT	61979-A
1" TO 2-1/2" LPFM TERMINAL FLUSHING CHAMBER DETAIL	LPFM24
1" TO 2-1/2" LPFM AIR RELIEF CHAMBER	LPFM30

ACCESSION NO.

CONTENTS:

SHEET NO.

1	TITLE SHEET
2	SHEET INDEX
3-31	PLAN AND PROFILES
32-33	PROJECT DETAILS AND CONTACTS
34	RAILROAD EASEMENT

DESCRIPTION



SUBMITTED: *Reese P. Johnson*
CHIEF ENGINEER
APPROVED: *Diana Christy*
DIRECTOR OF SEWERS
DATE: 4/1/2025

DESIGNED BY:GEW
DRAWN BY:GAU

ACAD DRAWING NAME:MSD-TITLE.DWG

ACC. NO. 78230

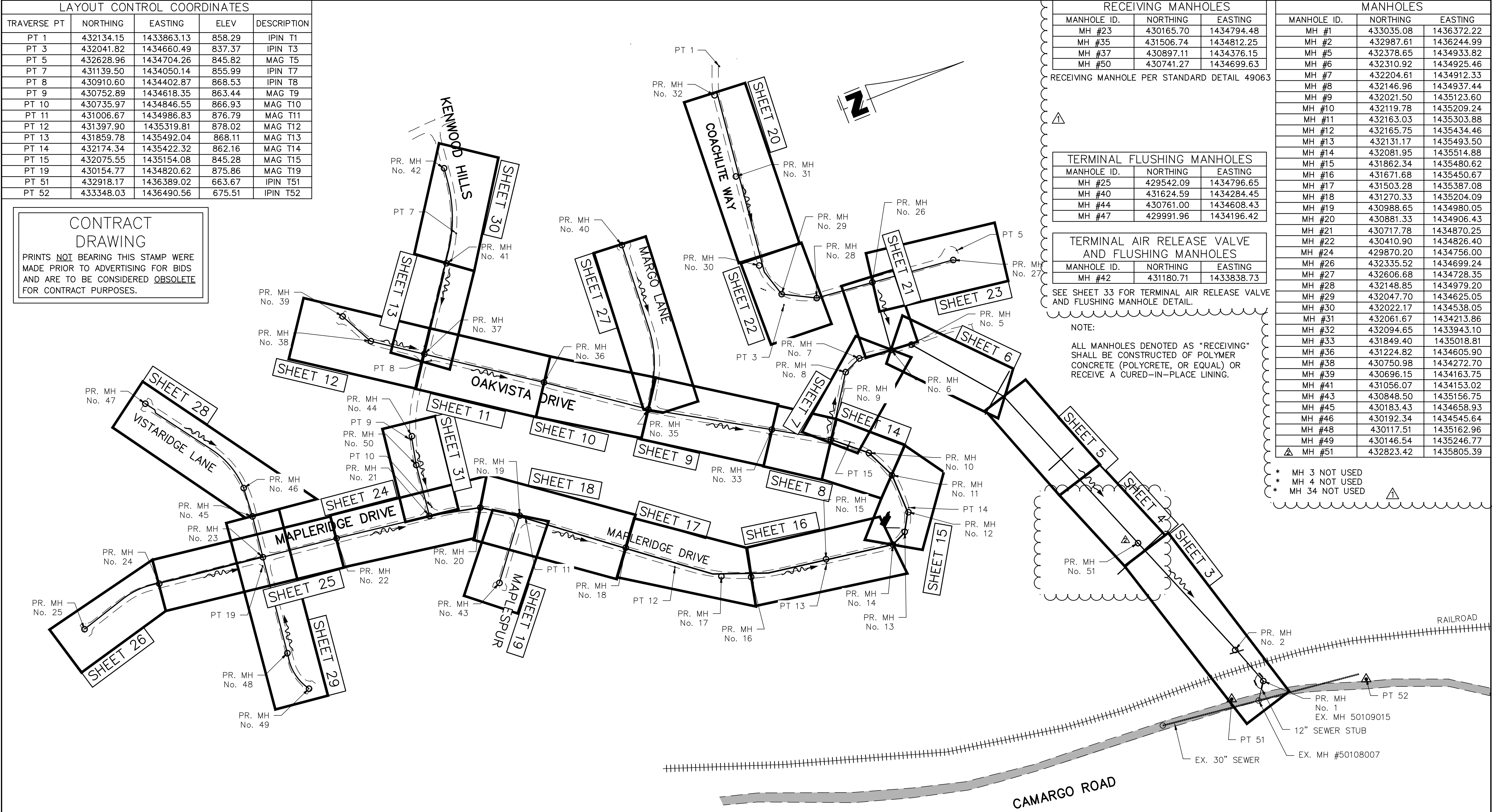
SHEET 1 OF 34

SS# 5933

LAYOUT CONTROL COORDINATES				
TRAVERSE PT	NORTHING	EASTING	ELEV	DESCRIPTION
PT 1	432134.15	1433863.13	858.29	IPIN T1
PT 3	432041.82	1434660.49	837.37	IPIN T3
PT 5	432628.96	1434704.26	845.82	MAG T5
PT 7	431139.50	1434050.14	855.99	IPIN T7
PT 8	430910.60	1434402.87	868.53	IPIN T8
PT 9	430752.89	1434618.35	863.44	MAG T9
PT 10	430735.97	1434846.55	866.93	MAG T10
PT 11	431006.67	1434986.83	876.79	MAG T11
PT 12	431397.90	1435319.81	878.02	MAG T12
PT 13	431859.78	1435492.04	868.11	MAG T13
PT 14	432174.34	1435422.32	862.16	MAG T14
PT 15	432075.55	1435154.08	845.28	MAG T15
PT 19	430154.77	1434820.62	875.86	MAG T19
PT 51	432918.17	1436389.02	663.67	IPIN T51
PT 52	433348.03	1436490.56	675.51	IPIN T52

CONTRACT
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RECEIVING MANHOLES		
MANHOLE ID.	NORTHING	EASTING
MH #23	430165.70	1434794.48
MH #35	431506.74	1434812.25
MH #37	430897.11	1434376.15
MH #50	430741.27	1434699.63

RECEIVING MANHOLE PER STANDARD DETAIL 49063

TERMINAL FLUSHING MANHOLES		
MANHOLE ID.	NORTHING	EASTING
MH #25	429542.09	1434796.65
MH #40	431624.59	1434284.45
MH #44	430761.00	1434608.43
MH #47	429991.96	1434196.42

TERMINAL AIR RELEASE VALVE AND FLUSHING MANHOLES		
MANHOLE ID.	NORTHING	EASTING
MH #42	431180.71	1433838.73

SEE SHEET 33 FOR TERMINAL AIR RELEASE VALVE
AND FLUSHING MANHOLE DETAIL.

NOTE:

ALL MANHOLES DENOTED AS "RECEIVING"
SHALL BE CONSTRUCTED OF POLYMER
CONCRETE (POLYCRETE, OR EQUAL) OR
RECEIVE A CURED-IN-PLACE LINING.

MANHOLES		
MANHOLE ID.	NORTHING	EASTING
MH #1	433035.08	1436372.22
MH #2	432987.61	1436244.99
MH #5	432378.65	1434933.82
MH #6	432310.92	1434925.46
MH #7	432204.61	1434912.33
MH #8	432146.96	1434937.44
MH #9	432021.50	1435123.60
MH #10	432119.78	1435209.24
MH #11	432163.03	1435303.88
MH #12	432165.75	1435434.46
MH #13	432131.17	1435493.50
MH #14	432081.95	1435514.88
MH #15	431862.34	1435480.62
MH #16	431671.68	1435450.67
MH #17	431503.28	1435387.08
MH #18	431270.33	1435204.09
MH #19	430988.65	1434980.05
MH #20	430881.33	1434906.43
MH #21	430717.78	1434870.25
MH #22	430410.90	1434826.40
MH #24	429870.20	1434756.00
MH #26	432335.52	1434699.24
MH #27	432606.68	1434728.35
MH #28	432148.85	1434979.20
MH #29	432047.70	1434625.05
MH #30	432022.17	1434538.05
MH #31	432061.67	1434213.86
MH #32	432094.65	1433943.10
MH #33	431849.40	1435018.81
MH #36	431224.82	1434605.90
MH #38	430750.98	1434272.70
MH #39	430696.15	1434163.75
MH #41	431056.07	1434153.02
MH #43	430848.50	1435156.75
MH #45	430183.43	1434658.93
MH #46	430192.34	1434545.64
MH #48	430117.51	1435162.96
MH #49	430146.54	1435246.77
MH #51	432823.42	1435805.39

- * MH 3 NOT USED
- * MH 4 NOT USED
- * MH 34 NOT USED

DESIGNED BY: GEW			
DRAWN BY: GAU			
REVISIONS			
BY:	DATE:	DESCRIPTION:	
RRM	11-11-2025	RFI UPDATES	
RRM	02-26-2026	MH 51 RELOCATION	



THE METROPOLITAN SEWER DISTRICT
OF GREATER CINCINNATI
HAMILTON COUNTY, OHIO



PROPOSED PROJECT NO. 10370025

FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM
THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG
COACHLITE

SCALE: HORIZ. 1"=150'



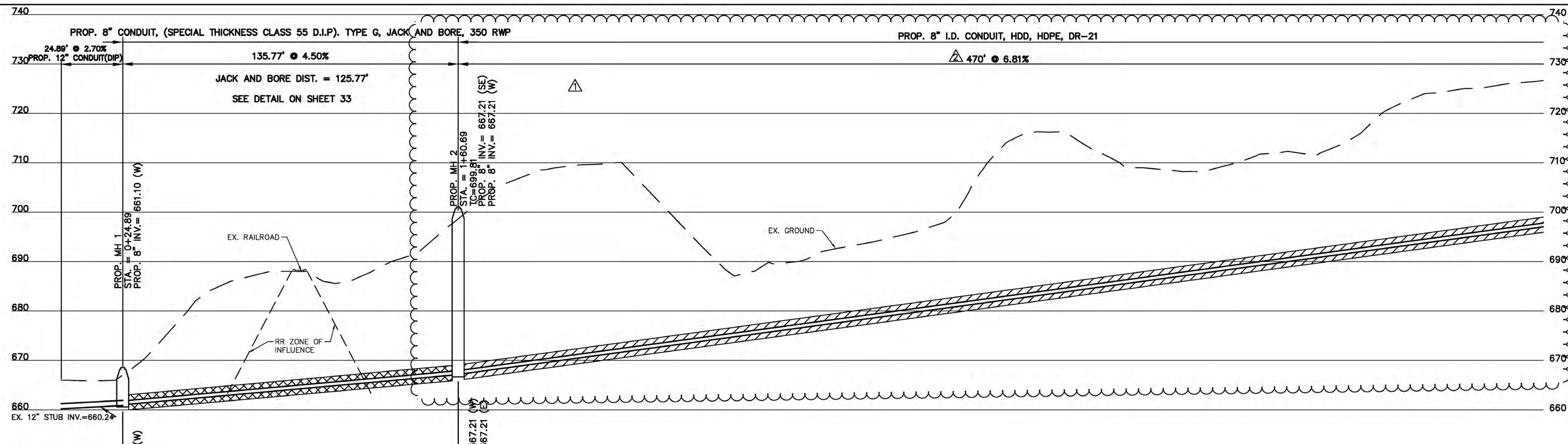
SHEET INDEX

SHEET INDEX

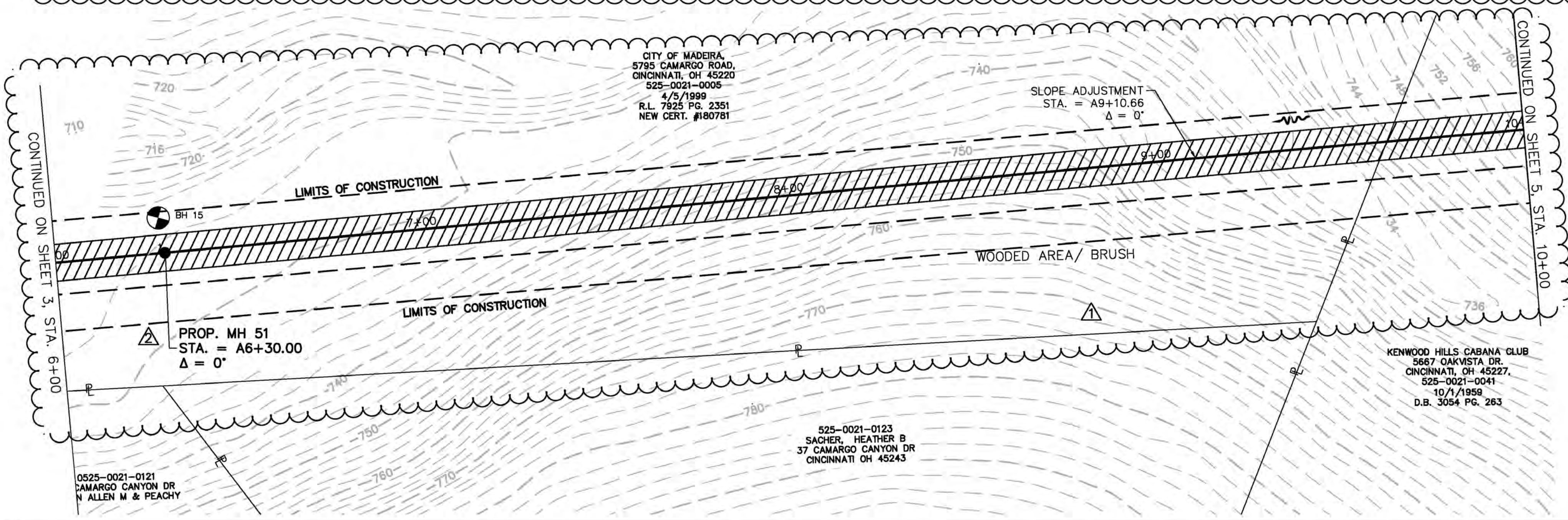
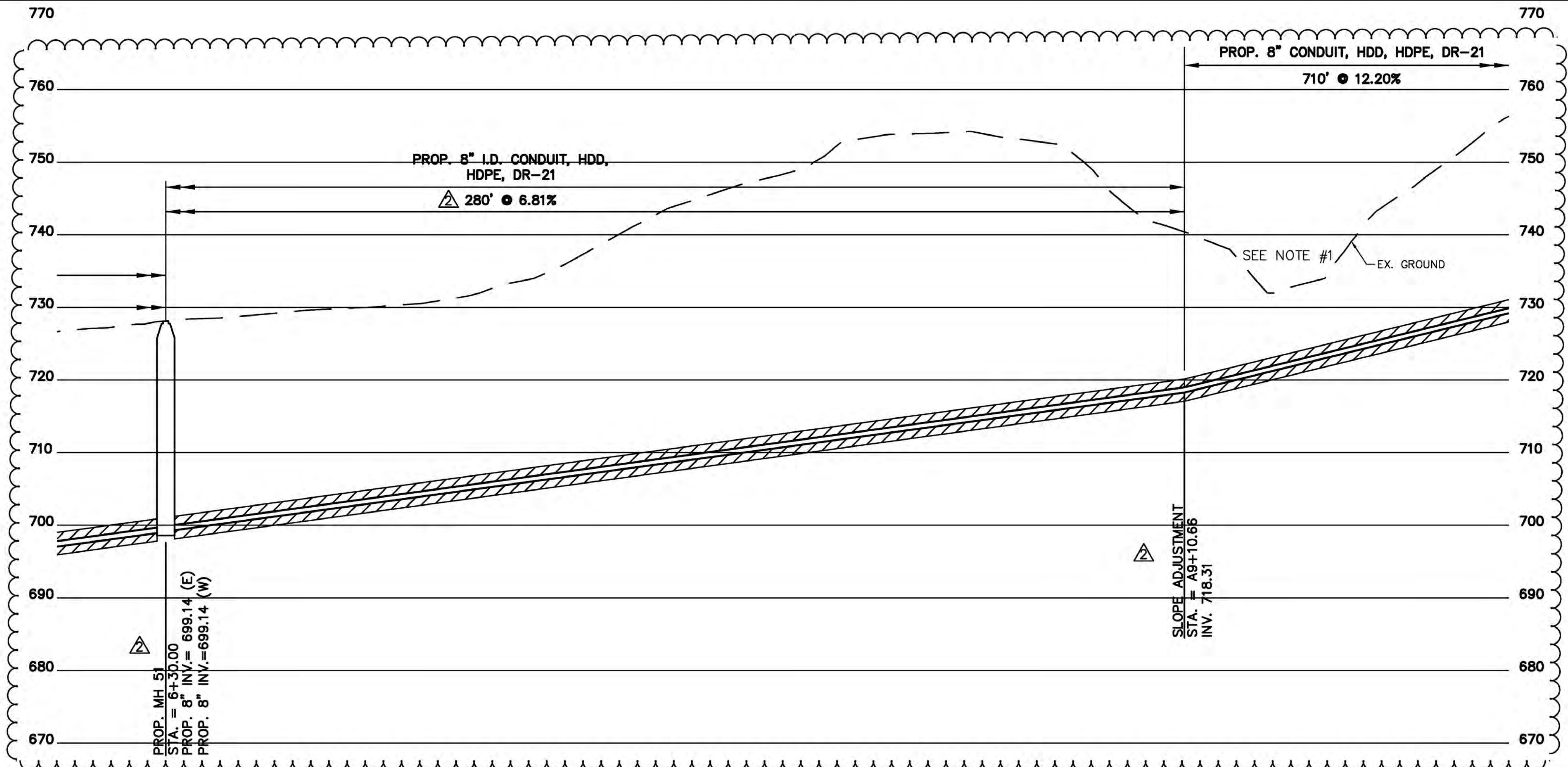
ACC. NO. 78231

SHEET 2 OF 34

SS# 5933



PATH: N:\JOBS\2018\18926 - KENWOOD HILLS LOCAL SEWER - JUNE10\WATER_WASTEWATER\600 CAD\SSM\BASE\AS BUILT\KENWOOD HILLS BASEMAP_REVISED.DWG
DATE: Feb 26, 2026 12:13 PM
PLOTTED BY: RMCLEAN



**CONTRACT
DRAWING**
PRINTS NOT BEARING THIS STAMP WERE
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NOTES
1. DIRECTIONAL DRILLING
RISK OF FRAC-OUT IN
THIS AREA. CONTRACTOR
TO PROVIDE
MITIGATION/MONITORING
PLAN BEFORE DRILLING IS
STARTED

REVISIONS			
BY:	DATE:	DESCRIPTION:	
RRM	11-11-2025	RFI UPDATES	
RRM	02-26-2026	MH 51 RELOCATION	



THE METROPOLITAN SEWER DISTRICT
OF GREATER CINCINNATI
HAMILTON COUNTY, OHIO

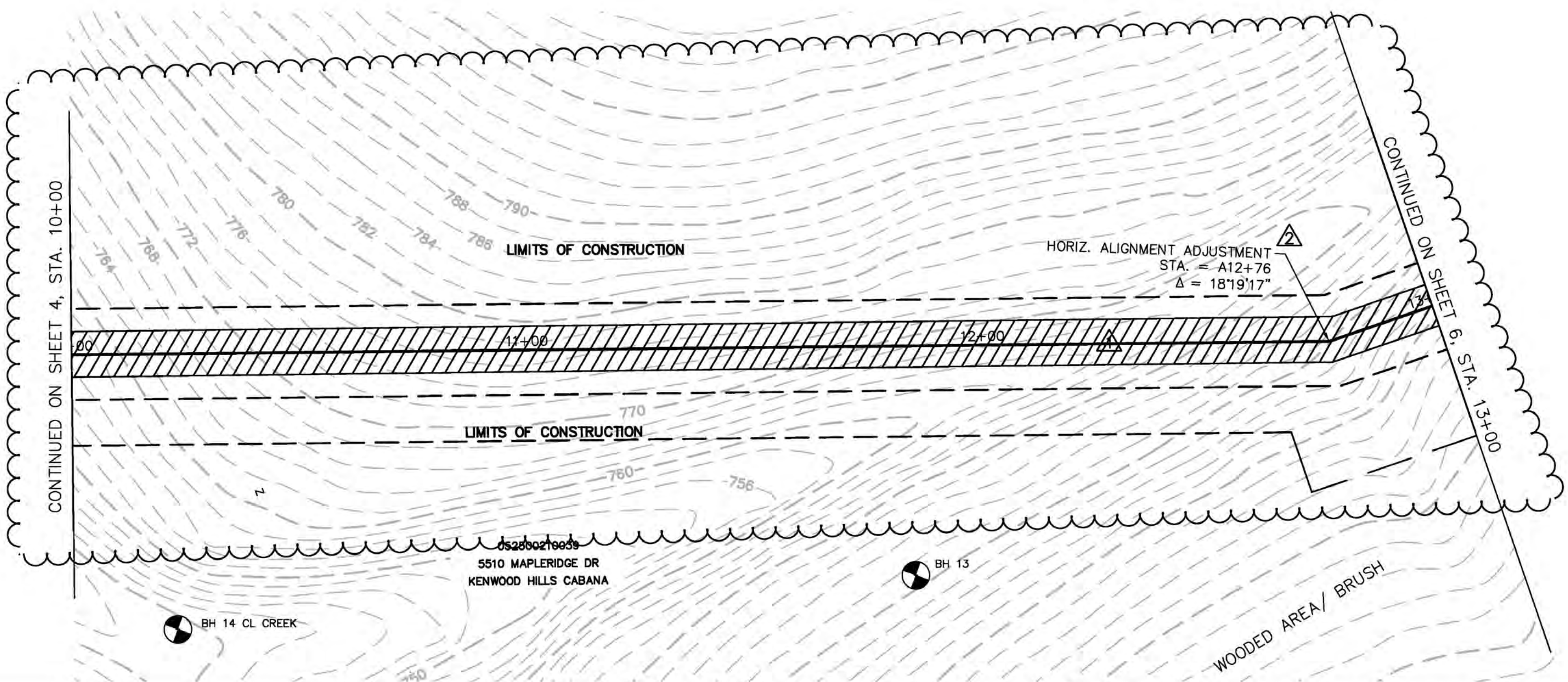
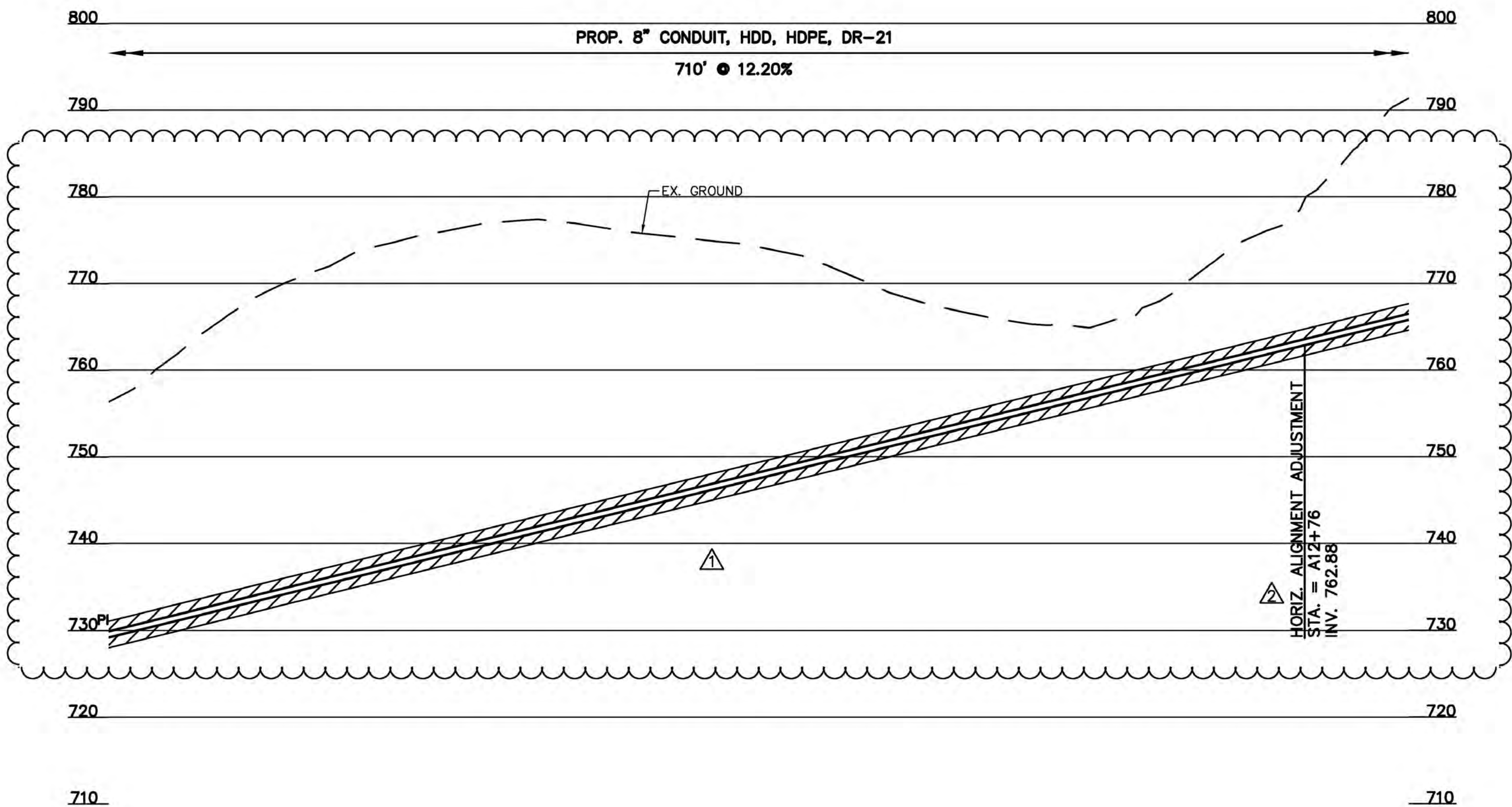


PROPOSED PROJECT NO. 10370025
FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM
THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG
COACHLITE
SCALE: HORIZ. 1"=20'
VERT. 1"=10'

MH 2 TO MH 51
PLAN AND PROFILE

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REVISIONS			
BY:	DATE:	DESCRIPTION:	
RRM	11-11-2025	RFI UPDATES	
RRM	02-26-2026	MH 51 RELOCATION	



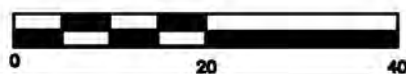
THE METROPOLITAN SEWER DISTRICT
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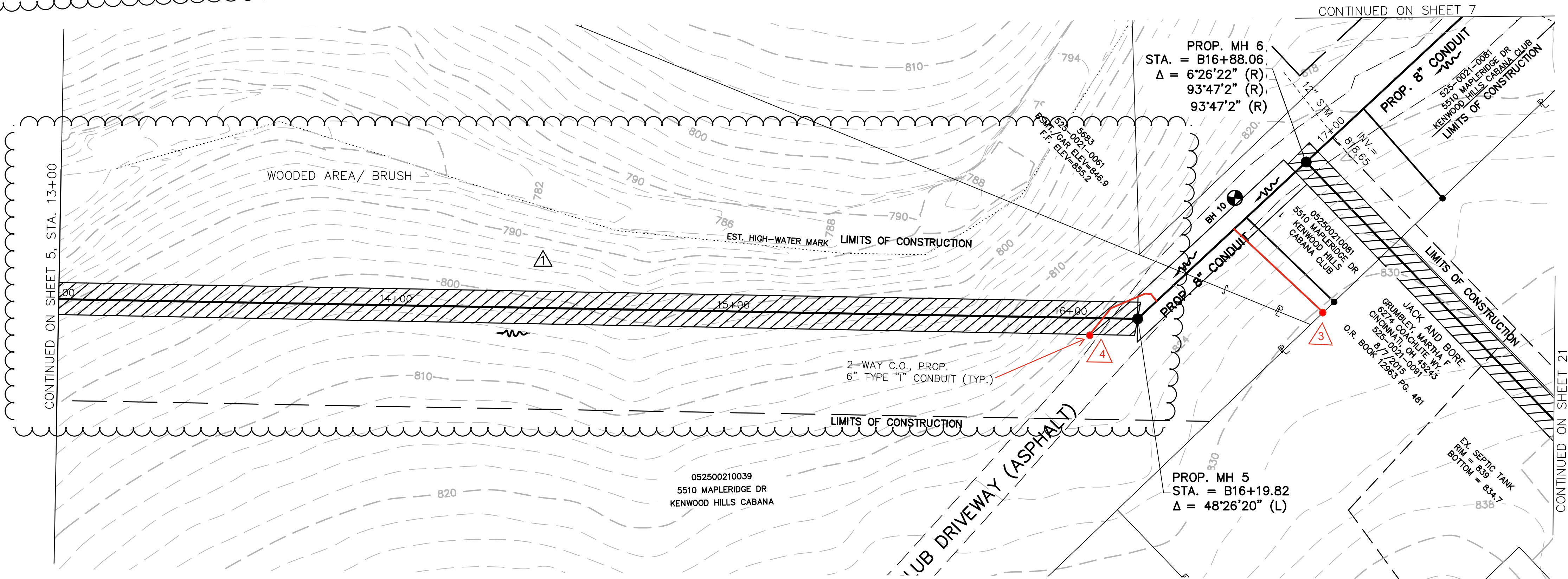
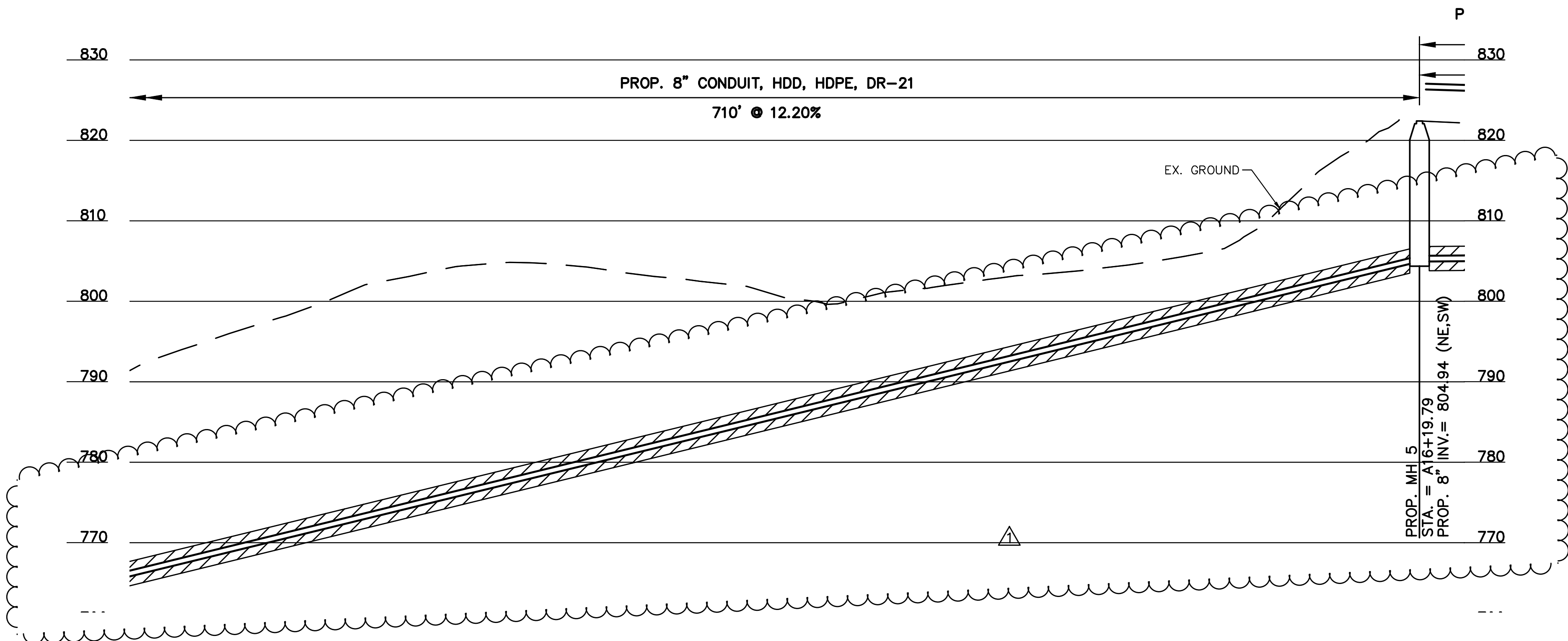


MH 51 TO MH 5

PLAN AND PROFILE

CONTRACT
DRAWING

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DESIGNED BY: GEW			
DRAWN BY: GAU			
BY:	DATE:	REVISIONS	
RRM	11-11-2025	RFI UPDATES	
RRM	02-26-2026	MH 51 RELOCATION	
DEA	3/4/2026	3 Relocate 6282 Coachlite C.O. to neighbor's rear yard	
DEA	6/16/2026	4 KHCC CO moved by Contractor in field	



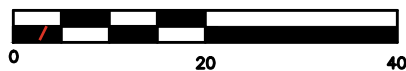
THE METROPOLITAN SEWER DISTRICT
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PROPOSED PROJECT NO. 10370025

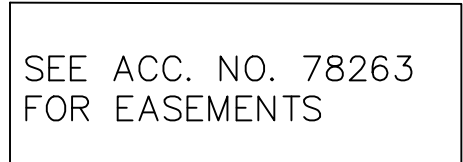
FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM
THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG
COACHLITE

SCALE: HORIZ. 1"=20'
VERT. 1"=10'



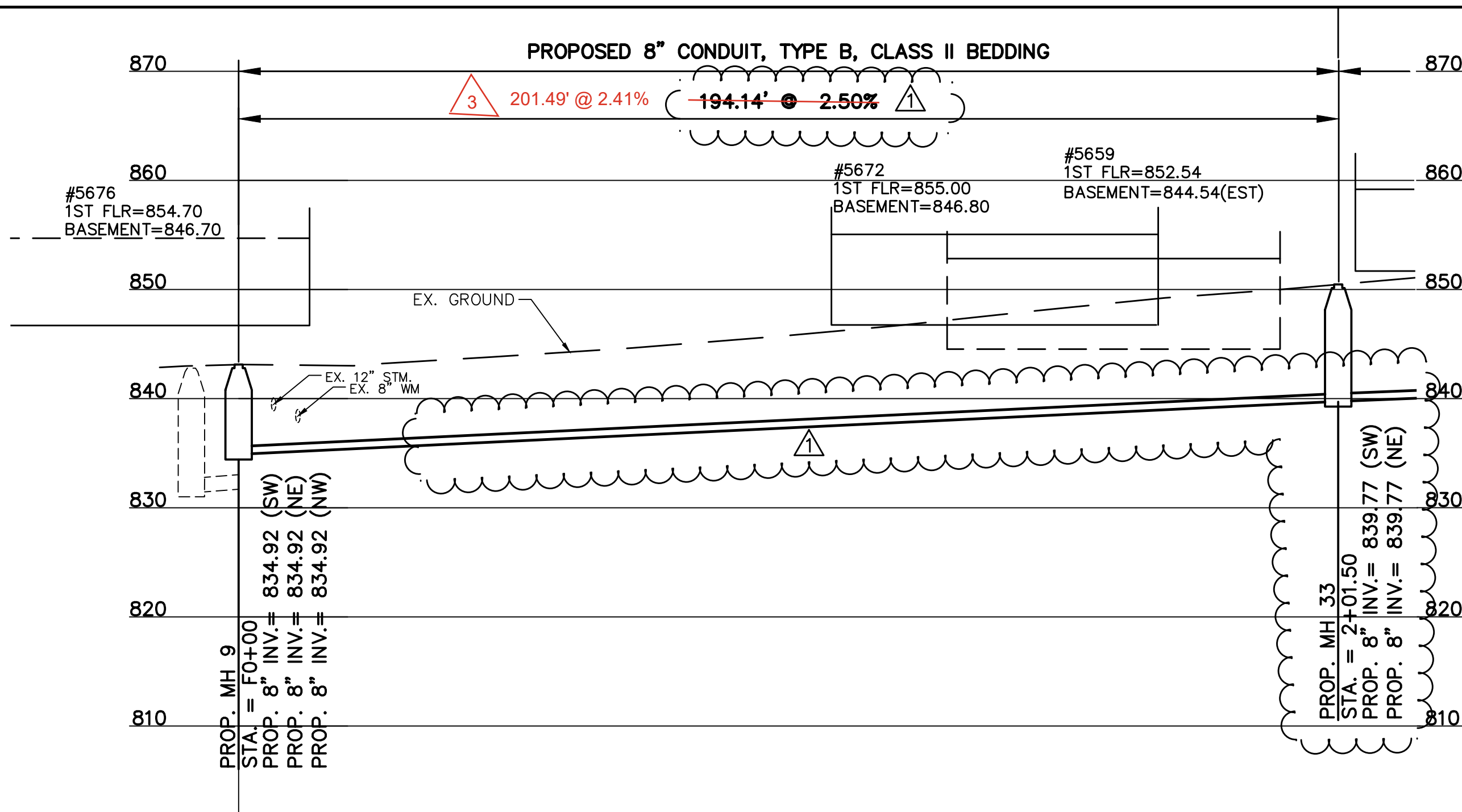
CABANA CLUB DRIVE

PLAN AND PROFILE

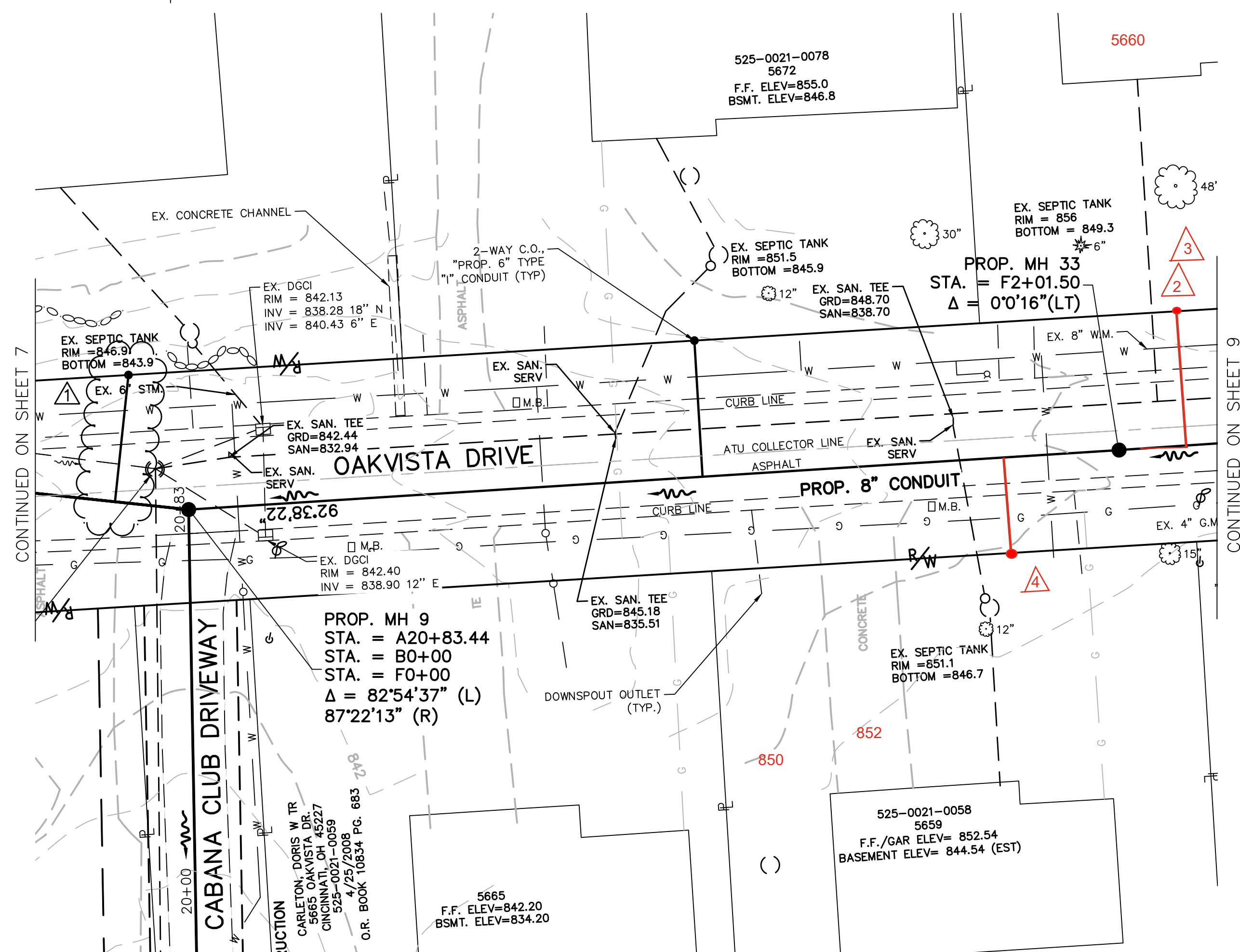


CABANA CLUB DRIVE
PLAN AND PROFILE

PATH: N:\JOBS\2018\18926 - KENWOOD HILLS LOCAL SEWER - JUNETO\WATER_WASTEWATER\600 CAD\SSA\BASE\AS BUILT\KENWOOD HILLS BASEMAP_AS BUILT.DWG
DATE: Nov 13, 2025 - 09:38 AM
PLOTTED BY: RMCLAN



CONTRACT
DRAWING
PRINTS NOT BEARING THIS STAMP WERE
MADE PRIOR TO ADVERTISING FOR BIDS
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FOR CONTRACT PURPOSES.



NOTE:
OAKVISTA DRIVE REQUIRES
FULL WIDTH MILL AND PAVE.

DESIGNED BY: GEW			
DRAWN BY: GAU			
BY:	DATE:	REVISIONS	
RRM	11-11-2025	RFI UPDATES	
DEA	3/9/2026	RFI#7- MH#33 inverts changed, relocated 5676 Oakvista C.O.	
DEA	3/10/2026	2 5660 OakVista CO Relocated by PO	
DEA	3/11/2026	3 Corrected Dimension and Slope	
DEA	3/11/2026	4 Relocated 5659 Oakvista CO by PO	
DEA	3/19/2026	5 Had to shift 5660 CO in the field due to revision #3	



THE METROPOLITAN SEWER DISTRICT
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HAMILTON COUNTY, OHIO

WASTEWATER
ENGINEERING

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FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM
THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA DRIVE DR TO THE CABANA CLUB DR ALONG
COACHLITE

SCALE: HORIZ. 1"=20'
VERT. 1"=10'



OAKVIST DRIVE

PLAN AND PROFILE

ACC. NO. 78236

SHEET 8 OF 34

SS# 5933

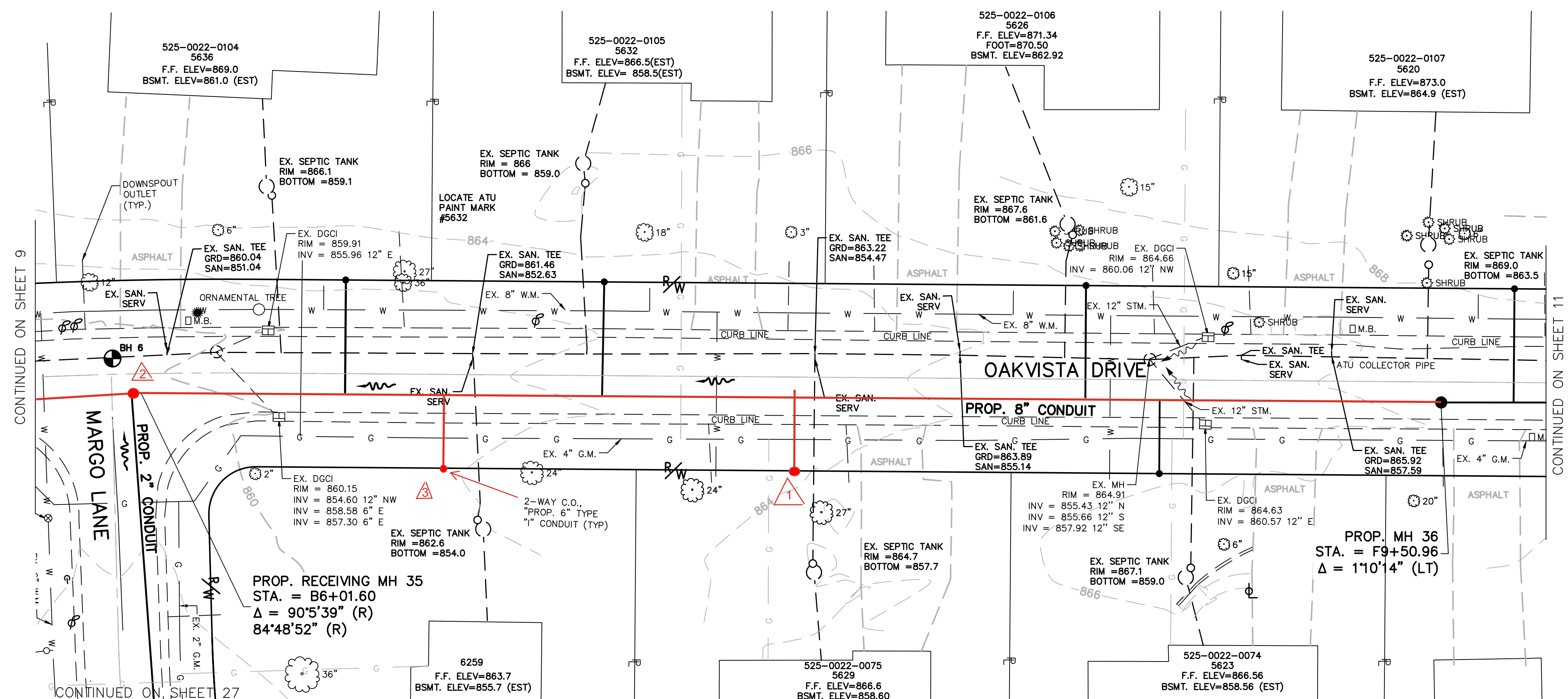
PRINTS NOT BEARING THIS STAMP WERE
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OAKVISTAD	DRIVE
PLAN AND PROFILE	

SS# 5933

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 **DYNOTEC**



MSD
WASTEWATER
ENGINEERING

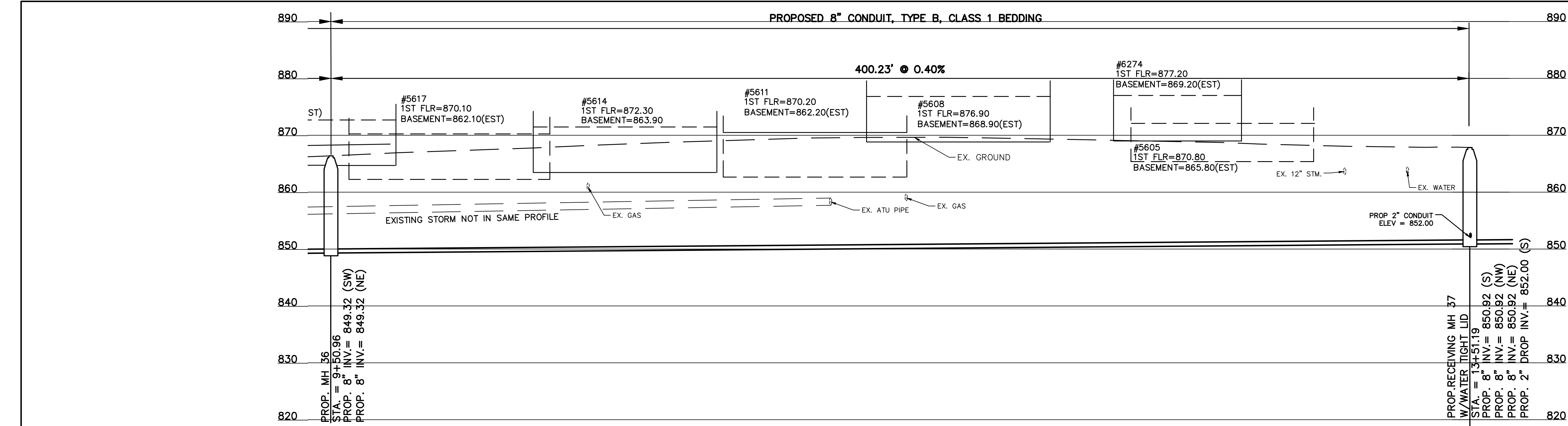
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VERT. 1"=10'



SHEET 10 OF 34

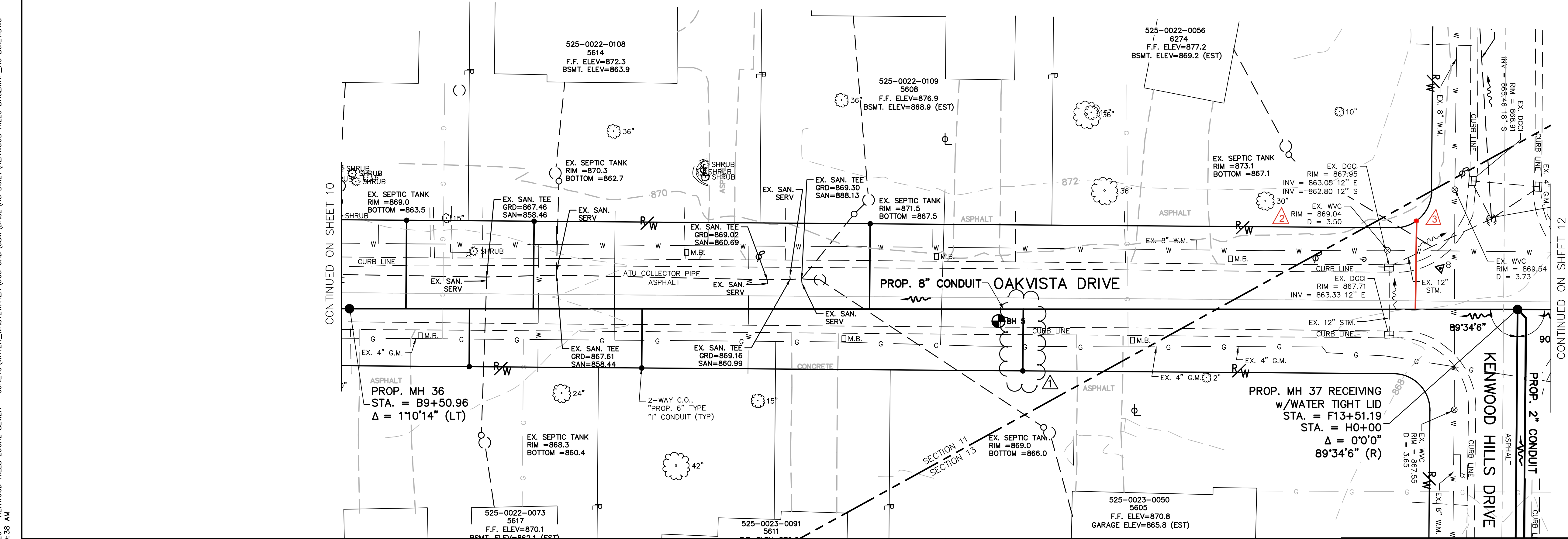
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PATH: N:\JOBS\2018\18026 - KENWOOD HILLS LOCAL SEWER - JUNETO\WATER_WASTEWATER\600 CAD\SSA\BASE\AS BUILT\KENWOOD HILLS BASEMAP_AS BUILT.DWG
DATE: Nov 13, 2025 - 09:38 AM
PLOT BY: RMCLEAN



CONTRACT
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NOTE:
OAKVISTA DRIVE REQUIRES
FULL WIDTH MILL AND PAVE.

REVISIONS			
BY:	DATE:	DESCRIPTION:	
RRM	11-11-2025	RFI UPDATES relocated 5605 Oakvista C.O.	
DEA	3/18/2026	2 6274 Kenwood Hills CO moved farther from tree	
DEA	3/27/2026	3 6274 Kenwood Hills CO moved based on input from PO	



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COACHLITE

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OAKVISTA DR AT MARGO LANE

PLAN AND PROFILE

PATH: N:\JOBS\2018\18926 - KENWOOD HILLS LOCAL SEWER - JUNE10\WATER_WASTEWATER\600 CAD\SSA\BASE\AS BUILT\KENWOOD HILLS BASEMAP_AS BUILT.DWG
DATE: Nov 13, 2025 - 09:38 AM
PLOTTED BY: RMCLEAN

REVISIONS			
DESIGNED BY:	BY:	DATE:	DESCRIPTION:
DRAWN BY: GAU	DEA	3/19/2026	1 Moved 5586 Oakvista CO to lower elevation along sewer and more in line with private lateral routing
	DEA	4/6/2026	2 5576 and 5569 Oakvista CO relocated
	DEA	5/5/2026	3 6273 Kenwood Hills CO relocated



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MSD
WASTEWATER
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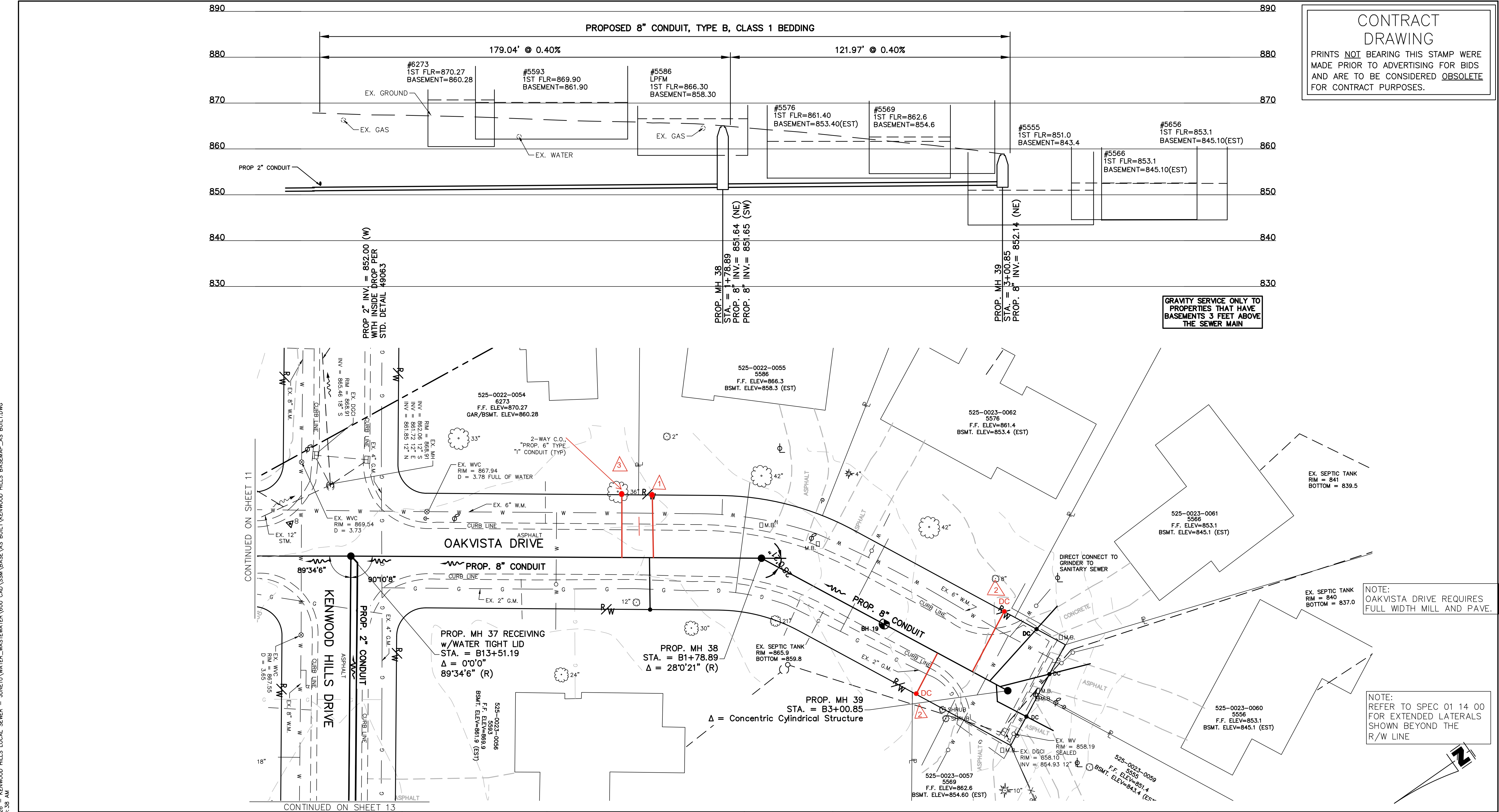
OAKVISTA DRIVE

PLAN AND PROFILE

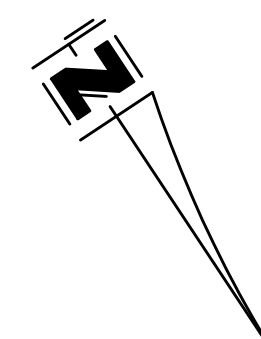
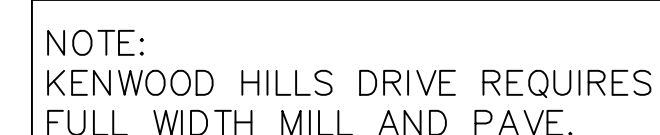
ACC. NO. 78239

SHEET 12 OF 34

SS# 5933



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DYNOTEC



MSD
**WASTEWATER
ENGINEERING**

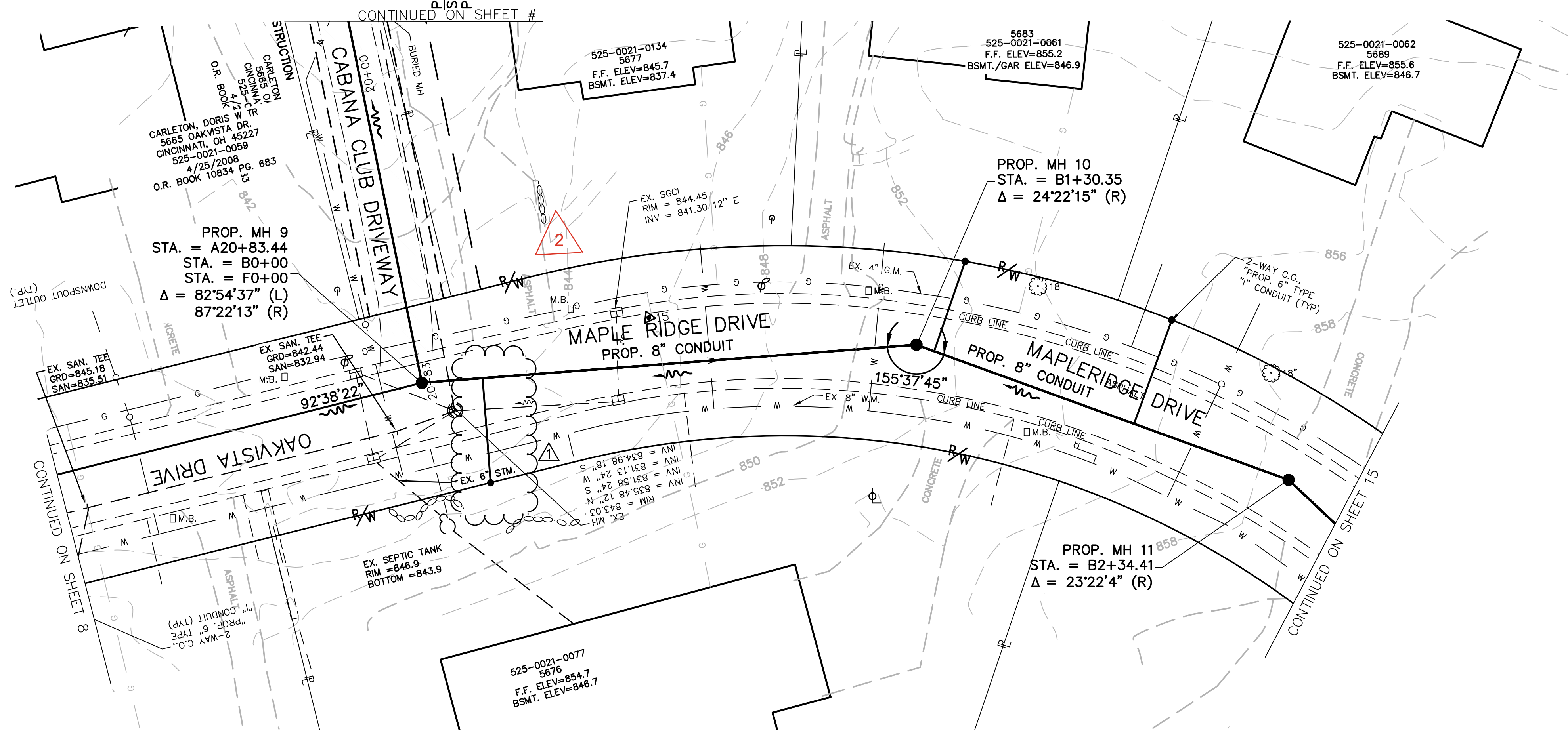
SHEET 13 OF 34

SS# 5933

ACAD DRAWING NAME: KENWOOD HILLS BASEMAP_AS BUILT.DWG

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 DATE: Nov 13, 2025 - 09:38 AM

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DYNOTEC

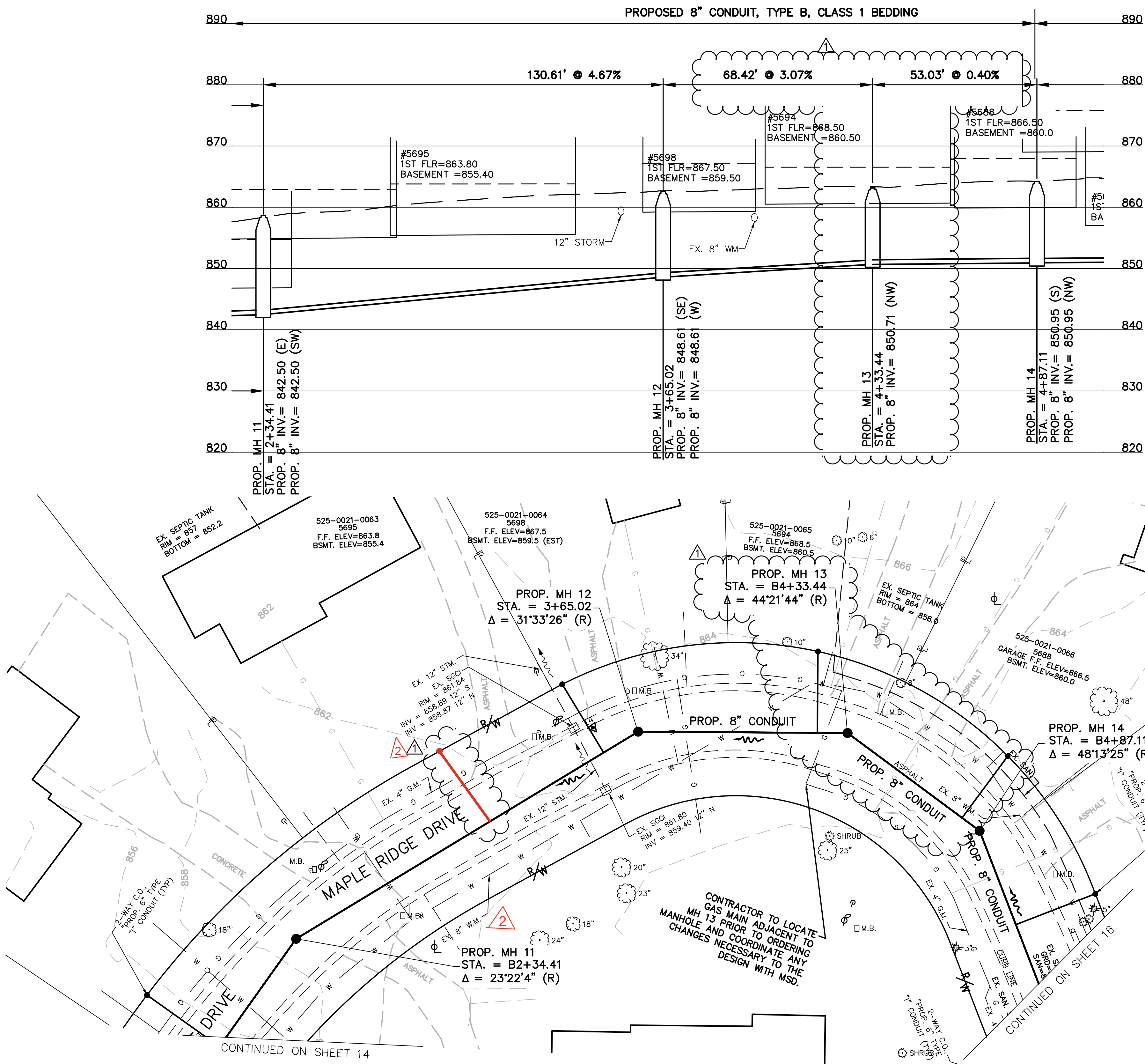
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MAPLERIDGE DRIVE AT NORTH END
PLAN AND PROFILE

CONTRACT
DRAWING

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NOTE:
MAPLE RIDGE DRIVE REQUIRES
FULL WIDTH MILL AND PAVE.



REVISIONS			
BY:	DATE:	DESCRIPTION:	
RRM	11-11-2025	RFI UPDATES	
DEA	12/11/2025	2. Delete Extra CO for 5679 Mapleridge (See sht 16 for correct CO location)	
DEA	1/9/2026	3. Move 5695 Mapleridge C.O. 2' to SW to avoid Gas Line	



THE METROPOLITAN SEWER DISTRICT
OF GREATER CINCINNATI
HAMILTON COUNTY, OHIO



WASTEWATER
ENGINEERING

PROPOSED PROJECT NO. 10370025

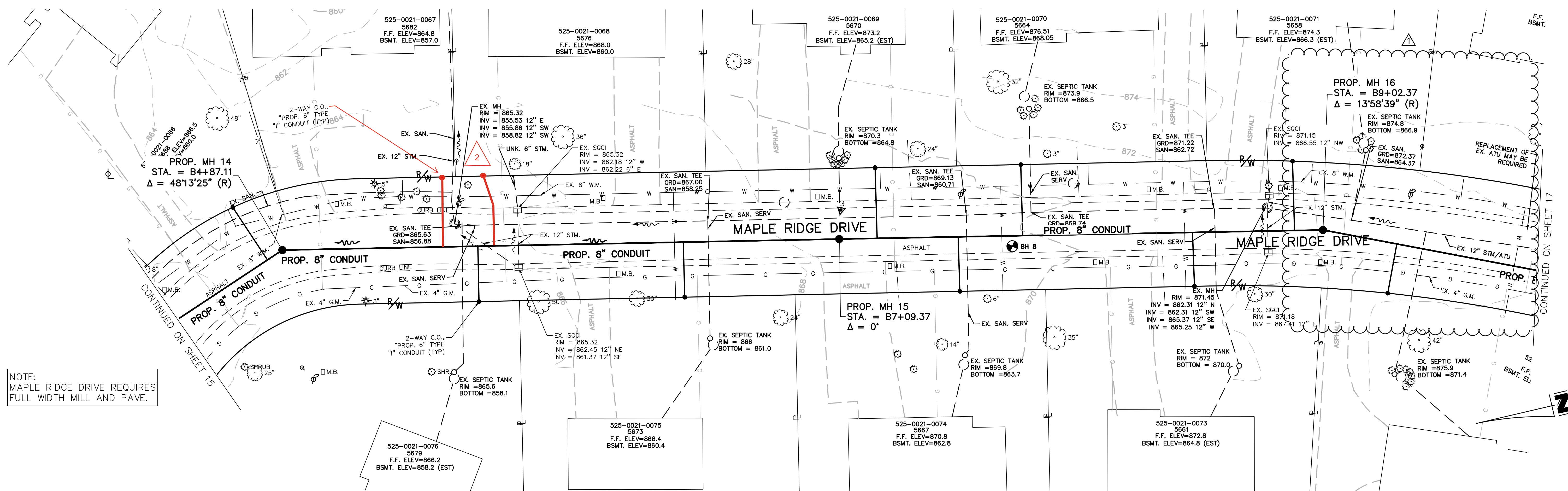
FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM
THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG
COACHLITE

SCALE: HORIZ. 1"=20'
VERT. 1"=10'

MAPLERIDGE DRIVE AT NORTH END

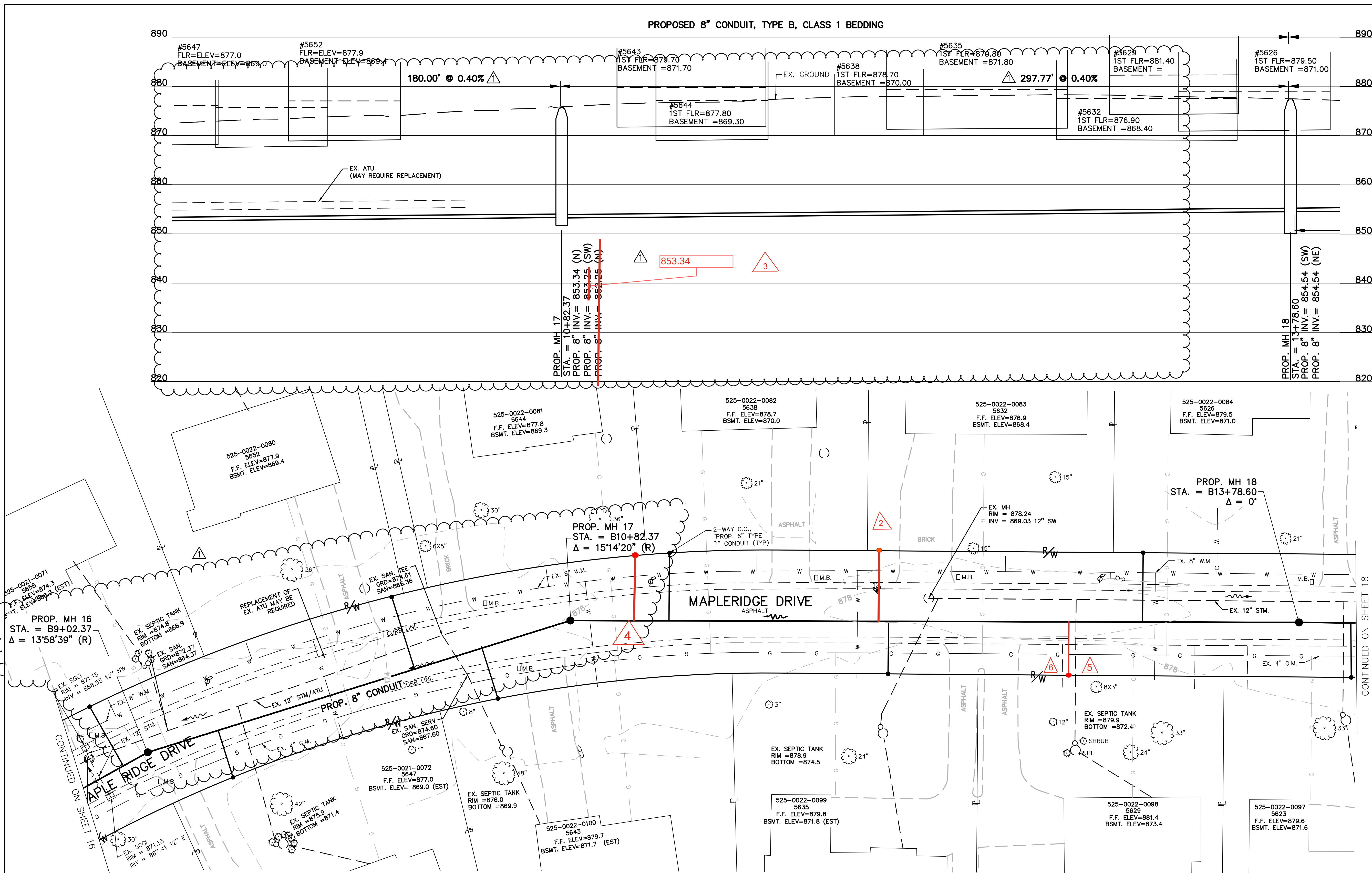
PLAN AND PROFILE

PRINTS NOT BEARING THIS STAMP WERE
MADE PRIOR TO ADVERTISING FOR BIDS
AND ARE TO BE CONSIDERED OBSOLETE
FOR CONTRACT PURPOSES.



MAPLERIDGE DRIVE
PLAN AND PROFILE

PATH: N:\JOBS\2018\18926 - KENWOOD HILLS LOCAL SEWER - JUNE10\WATER_WASTEWATER\600 CAD\SSA\BASE\AS BUILT\KENWOOD HILLS BASEMAP_AS BUILT.DWG
DATE: Nov 13, 2025 - 09:39 AM
PLOT BY: RMCLEAN



CONTRACT
DRAWING

PRINTS NOT BEARING THIS STAMP WERE
MADE PRIOR TO ADVERTISING FOR BIDS
AND ARE TO BE CONSIDERED OBSOLETE
FOR CONTRACT PURPOSES.

REVISIONS			
BY:	DATE:	DESCRIPTION:	
RRM	11-11-2025	RFI UPDATES	
DEA	11/21/2025	2 Relocated MH#16 & MH#17	
DEA	12/3/2025	3 Corrected cadd error on MH17 invert	
DEA	12/11/2025	4 Move CO for 5644 Mapleridge as gas line too close	
DEA	12/19/2025	5 Move CO for 5629 Mapleridge to avoid tree	
DEA	12/2/2026	6 Move CO for 5629 Mapleridge - field adjustment	



THE METROPOLITAN SEWER DISTRICT
OF GREATER CINCINNATI
HAMILTON COUNTY, OHIO

MSD
WASTEWATER
ENGINEERING

PROPOSED PROJECT NO. 10370025

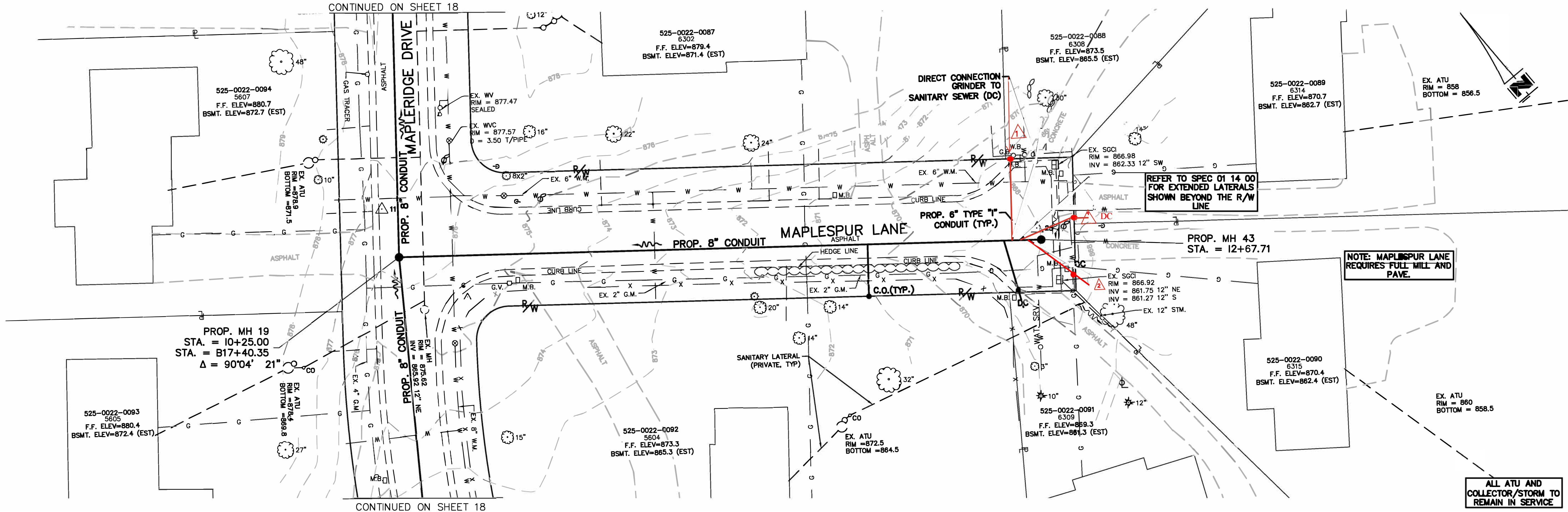
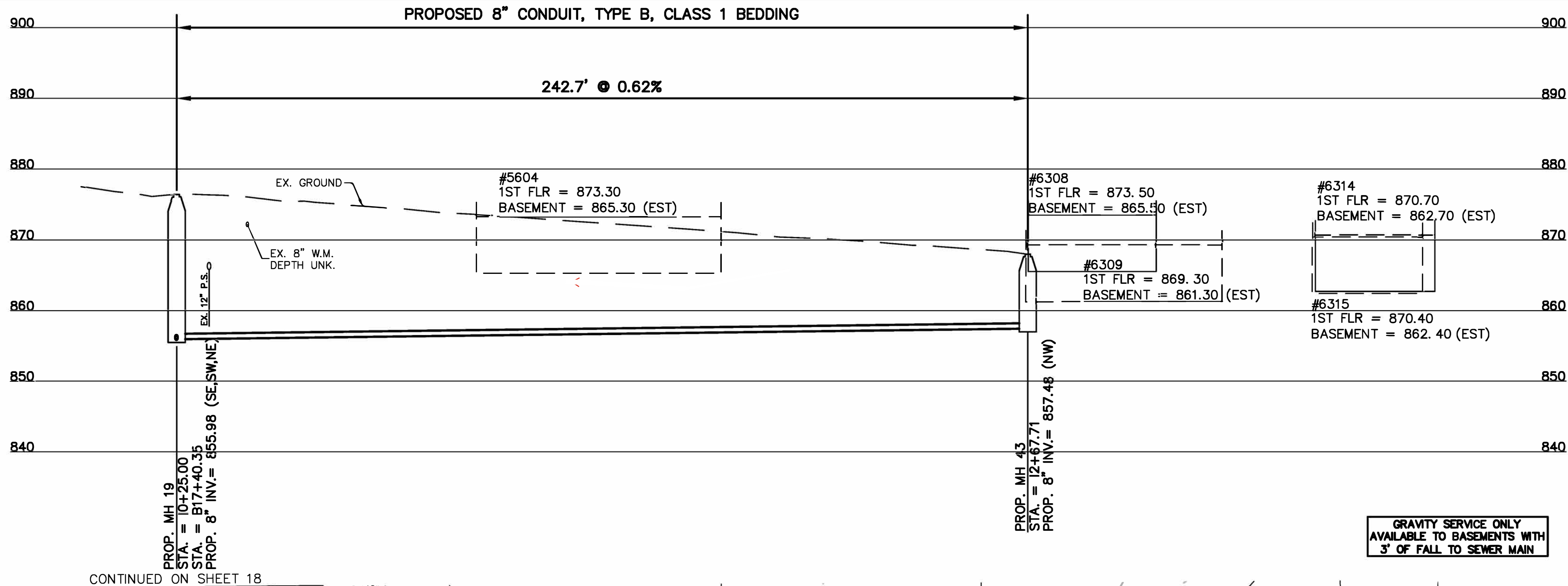
FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM
THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG
COACHLITE

SCALE: HORIZ. 1"=20'
VERT. 1"=10'

MAPLERIDGE DRIVE N of
MAPLESPUR

PLAN AND PROFILE

PATH: N:\VIBS\2018\18026 - KENWOOD HILLS LOCAL SEWER - JUNE10\WATER_WASTEWATER\600 CAD\BASE\AS BUILT\RA CONSULTANTS KENWOOD_AS BUILT.DWG
DATE: Nov 13, 2025 - 09:39 AM
PLOTTED BY: RMCLEAN

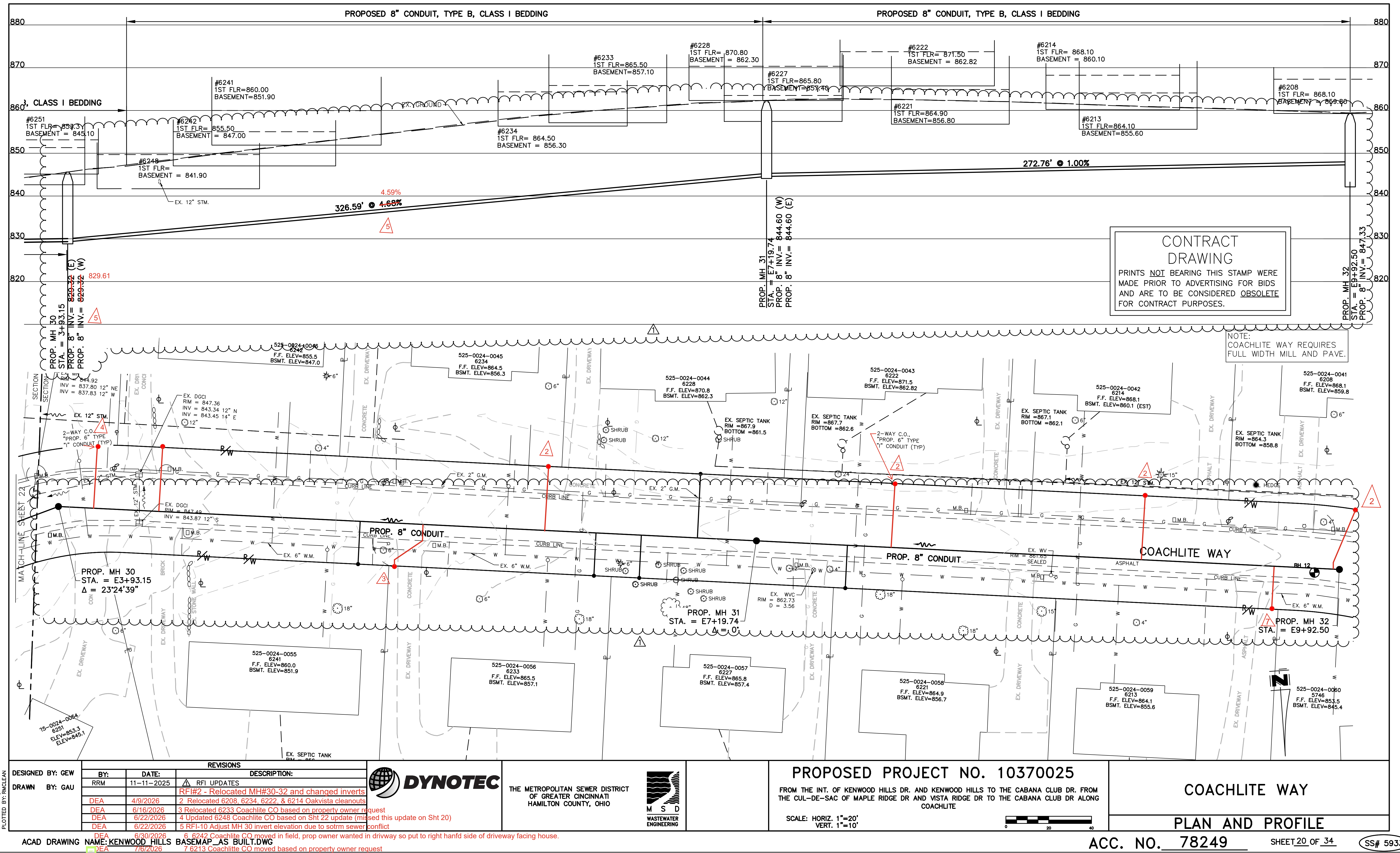


REVISIONS			
BY:	DATE:	DESCRIPTION:	
DEA	4/30/2026	1 Relocated COs for 6308 and 6314 Maplespur	
DEA	8/31/2026	2 Relocated CO for 6315 Maplespur	

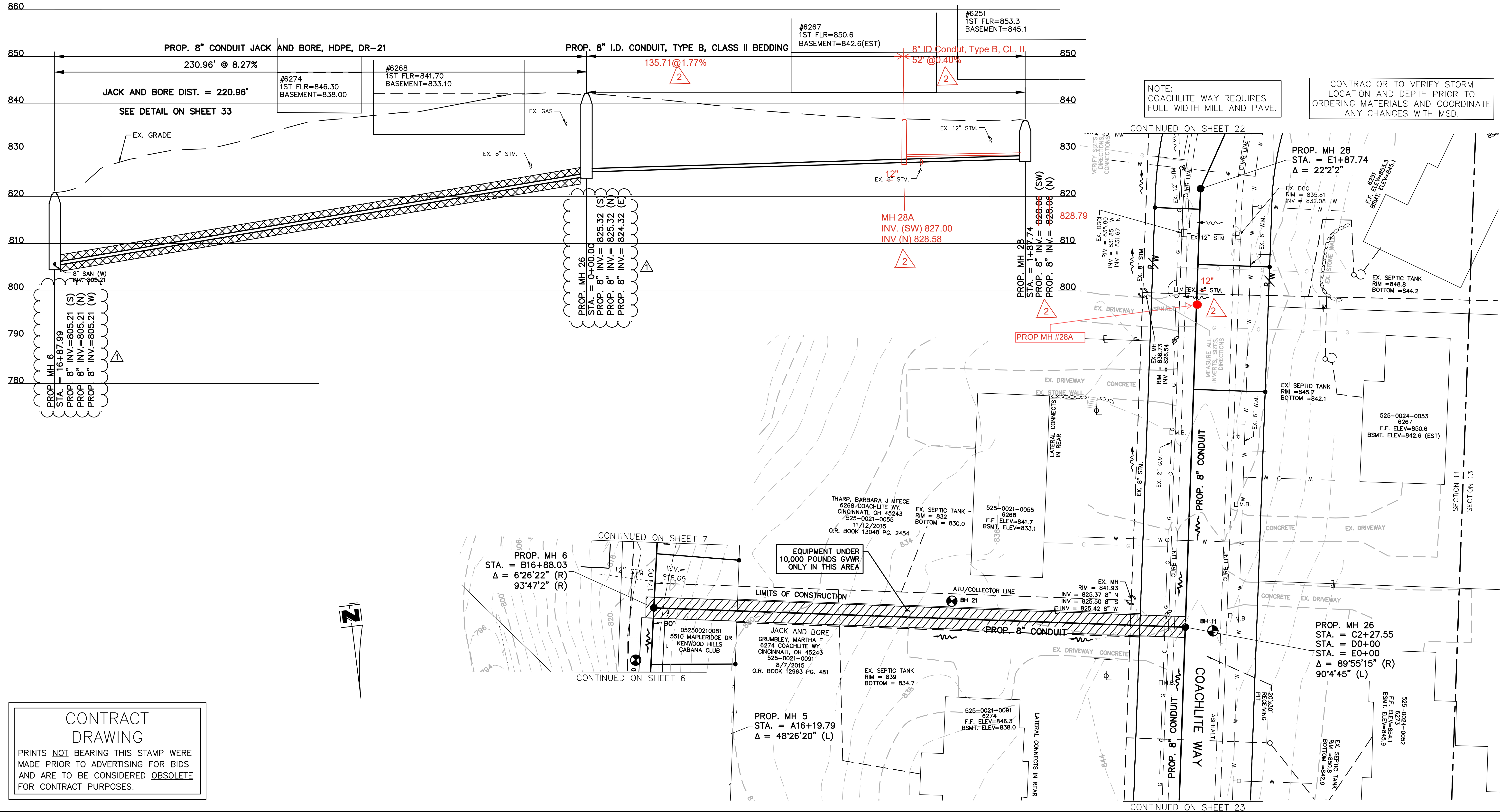


PROPOSED SANITARY SEWER NO. SS 5933
FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM THE CUL-DE-SAC OF MAPLE RIDGEDR AND VISTARIDGE DR TO THE CABANA CLUB DR ALONG COACHLITE
SCALE: HORIZ. 1"=20'
VERT. 1"=10'

MAPLESPUR LANE
PROFILE AND PLAN
ACC. NO. 78246
SHEET 19 OF 34
SS# 5933



PATH: N:\JOBS\2018\18026 - KENWOOD HILLS LOCAL SEWER - JUNETO\WATER_WASTEWATER\600 CAD\SSA\BASE\AS BUILT\KENWOOD HILLS BASEMAP_AS BUILT.DWG
DATE: Nov 13, 2025 - 09:39 AM
PLOT BY: RMCLEAN



**CONTRACT
DRAWING**

PRINTS NOT BEARING THIS STAMP WERE
MADE PRIOR TO ADVERTISING FOR BIDS
AND ARE TO BE CONSIDERED OBSOLETE
FOR CONTRACT PURPOSES.

DESIGNED BY: GEW			
DRAWN BY: GAU			
REVISIONS			
BY:	DATE:	DESCRIPTION:	
RRM	11-11-2025	RFI UPDATES	
DEA	6/26/2026	RFI#1, MH6& MH26 changed inverts	
		2 RFI-10 Added MH#28 to get over ex. 12" storm sewer	



THE METROPOLITAN SEWER DISTRICT
OF GREATER CINCINNATI
HAMILTON COUNTY, OHIO



WASTEWATER
ENGINEERING

PROPOSED PROJECT NO. 10370025

FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM
THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG
COACHLITE

SCALE: HORIZ. 1"=20'
VERT. 1"=10'

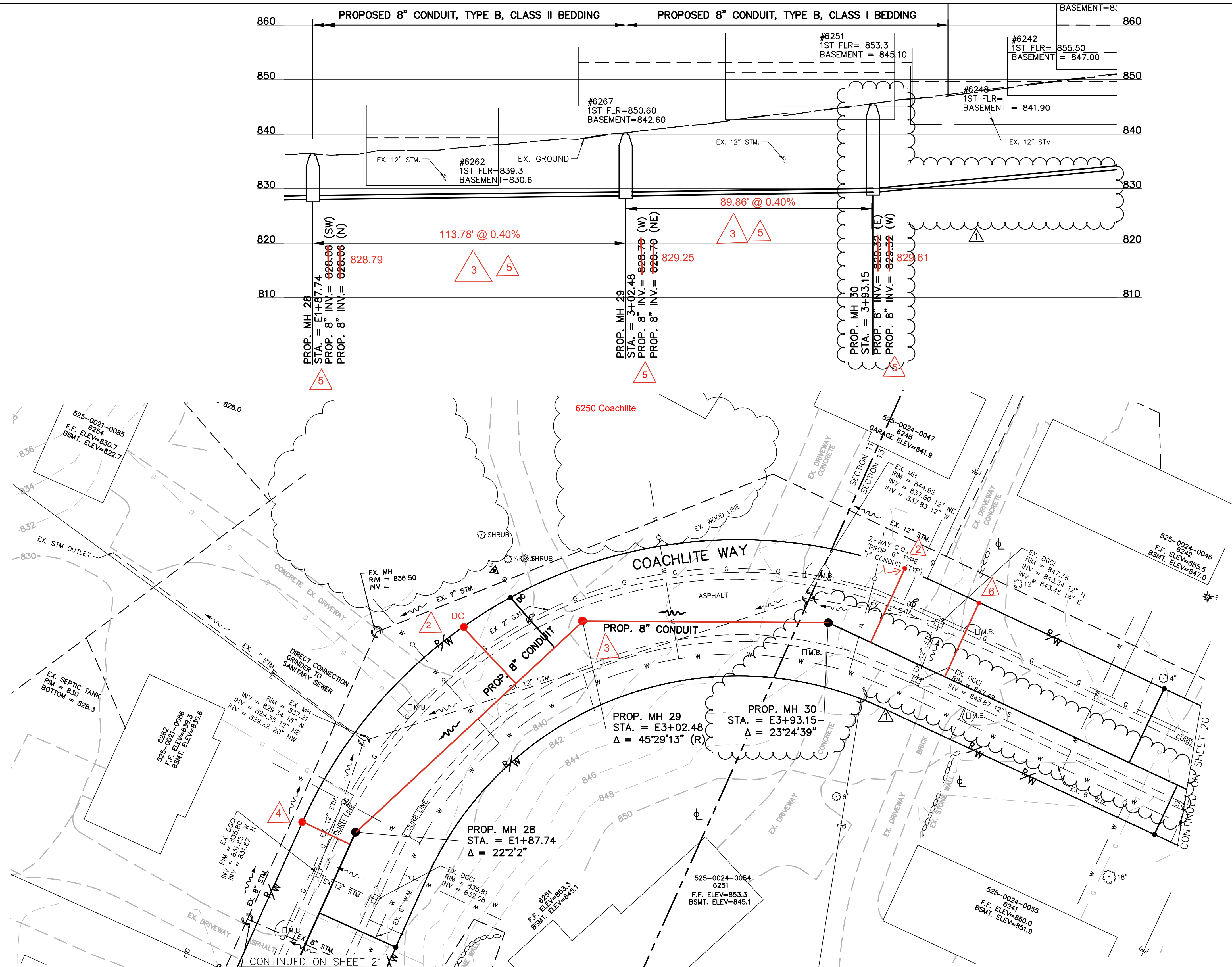
**COACHLITE WAY to CABANA
CLUB DRIVE**

PLAN AND PROFILE

CONTRACT
DRAWING

PRINTS NOT BEARING THIS STAMP WERE
MADE PRIOR TO ADVERTISING FOR BIDS
AND ARE TO BE CONSIDERED OBSOLETE
FOR CONTRACT PURPOSES.

NOTE:
COACHLITE WAY REQUIRES
FULL WIDTH MILL AND PAVE.



REVISIONS			
BY:	DATE:	DESCRIPTION:	
RRM	11-11-2025	RFI UPDATES	
DEA	4/15/2026	2 Relocated 6248 & 6254 Coachlite CO	
DEA	4/15/2026	3 RFI No. 9 - Move MH #29 2' farther from curb	
DEA	6/22/2026	4 6262 Coachlite CO moved 4' to right due to gas lateral conflict	
DEA	6/22/2026	5 RFI-10 Adjust MH 28-30 elevations due to storm sewer conflict	
DEA	6/30/2026	6 6242 Coachlite CO moved in field, prop owner wanted in driveway so put to right hand side of driveway facing house.	



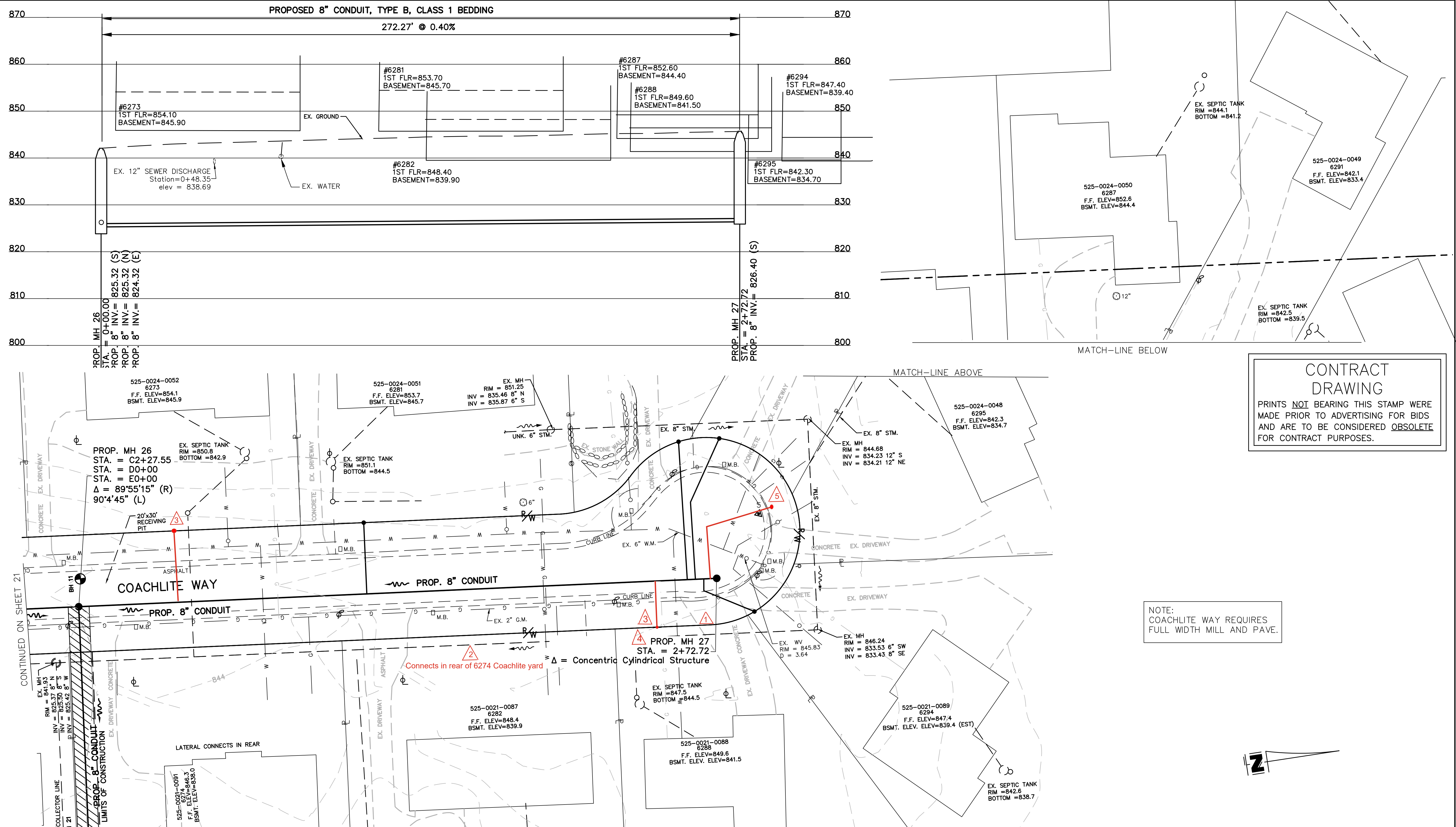
THE METROPOLITAN SEWER DISTRICT
OF GREATER CINCINNATI
HAMILTON COUNTY, OHIO



PROPOSED PROJECT NO. 10370025
FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM
THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG
COACHLITE
SCALE: HORIZ. 1"=20'
VERT. 1"=10'

COACHLITE WAY
PLAN AND PROFILE

PATH: N:\JOBS\2018\18926 - KENWOOD HILLS LOCAL SEWER - JUNE10\WATER_WASTEWATER\600 CAD\SSA\BASE\AS BUILT\KENWOOD HILLS BASEMAP_AS BUILT.DWG
DATE: Nov 13, 2025 - 09:39 AM
PLOT BY: RMCLEAN



REVISIONS			
BY:	DATE:	DESCRIPTION:	
DEA	11/21/2025	1 Relocated 6288 Coachlite C.O.	
DEA	1-9-2026	2 Relocate 6282 Coachlite C.O. to neighbor's rear yard - See Sht 7	
DEA	4/9/2026	3 Relocated 6273, and 6288Oakvista COs	
DEA	6/16/2026	4 Moved 6282 Coachlite CO by Contractor in field due to water service conflict	
DEA	6/30/2026	5 6295 Coachlite CO moved to grass area behind the curb	

THE METROPOLITAN SEWER DISTRICT
OF GREATER CINCINNATI
HAMILTON COUNTY, OHIO

PROPOSED PROJECT NO. 10370025
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SCALE: HORIZ. 1"=20'
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COACHLITE WAY

PLAN AND PROFILE

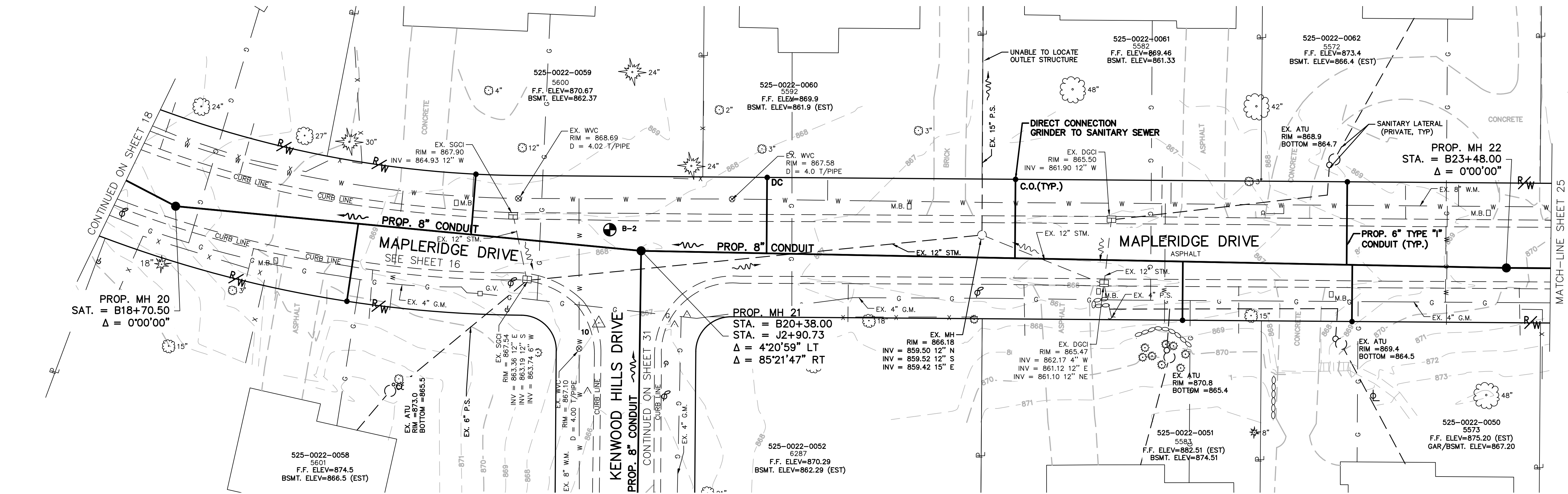
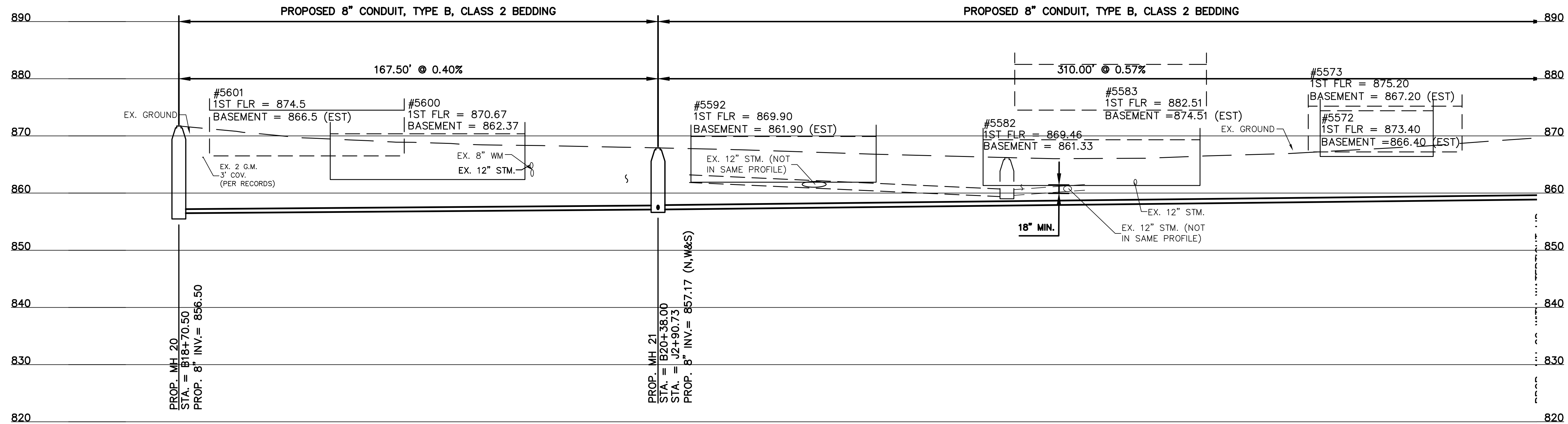
ACC. NO. 78250

SHEET 23 OF 34

SS# 5933

CONTRACT
DRAWING

PRINTS NOT BEARING THIS STAMP WERE
MADE PRIOR TO ADVERTISING FOR BIDS
AND ARE TO BE CONSIDERED OBSELETE
FOR CONTRACT PURPOSES.



NOTE:
MAPLERIDGE DRIVE REQUIRES
FULL MILL AND PAVE.

ALL ATU AND
COLLECTOR/STORM TO
REMAIN IN SERVICE

REVISIONS			
BY:	DATE:	DESCRIPTION:	



THE METROPOLITAN SEWER DISTRICT
OF GREATER CINCINNATI
HAMILTON COUNTY, OHIO



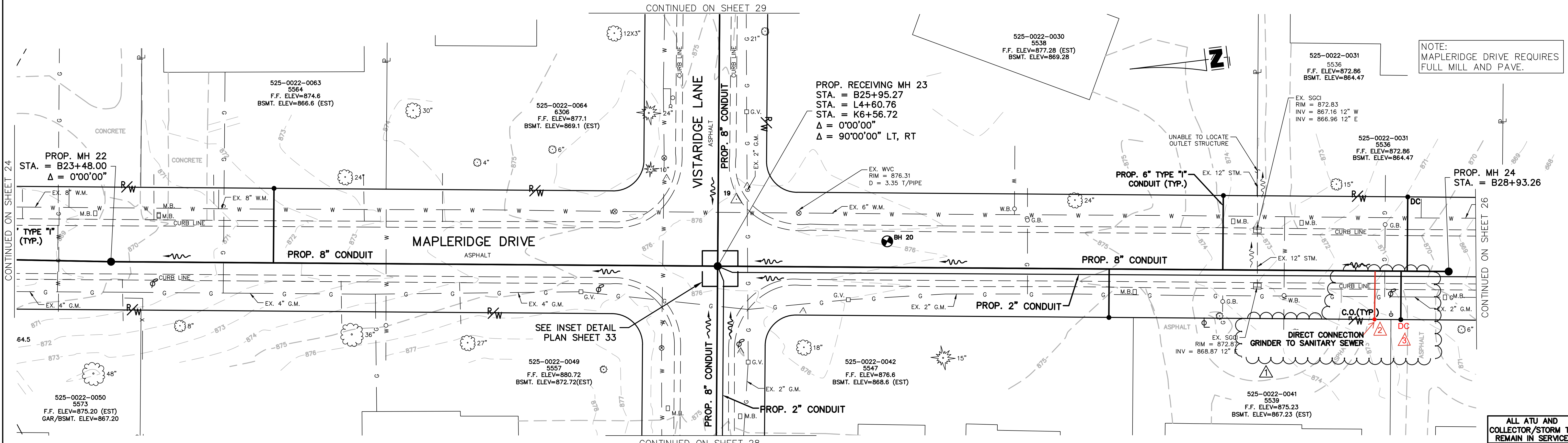
PROPOSED SANITARY SEWER NO. SS 5933

FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM THE
CUL-DE-SAC OF MAPLE RIDGEDR AND VISTARIDGE DR TO THE CABANA CLUB DR ALONG COACHLITE

SCALE: HORIZ. 1"=20'
VERT. 1"=10'

MAPLERIDGE PI & Pr

PROFILE AND PLAN





THE METROPOLITAN SEWER DISTRICT
OF GREATER CINCINNATI
HAMILTON COUNTY, OHIO



MSD
WASTEWATER
ENGINEERING

PROPOSED SANITARY SEWER NO. SS 5933

FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM THE CUL-DE-SAC OF MAPLE RIDGEDR AND VISTARIDGE DR TO THE CABANA CLUB DR ALONG COACHLITE

SCALE: HORIZ. 1"=20'
VERT. 1"=10'



MAPLERIDGE DRIVE

PROFILE AND PLAN

CONTRACT
DRAWING

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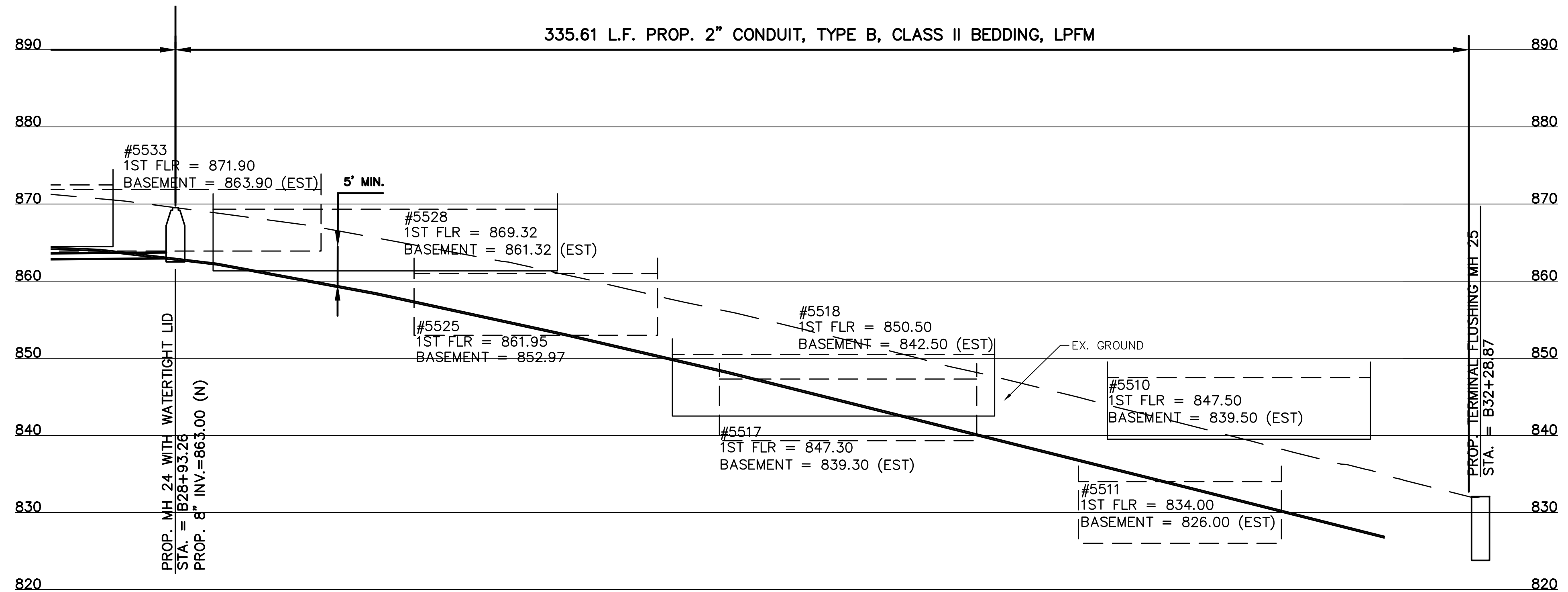
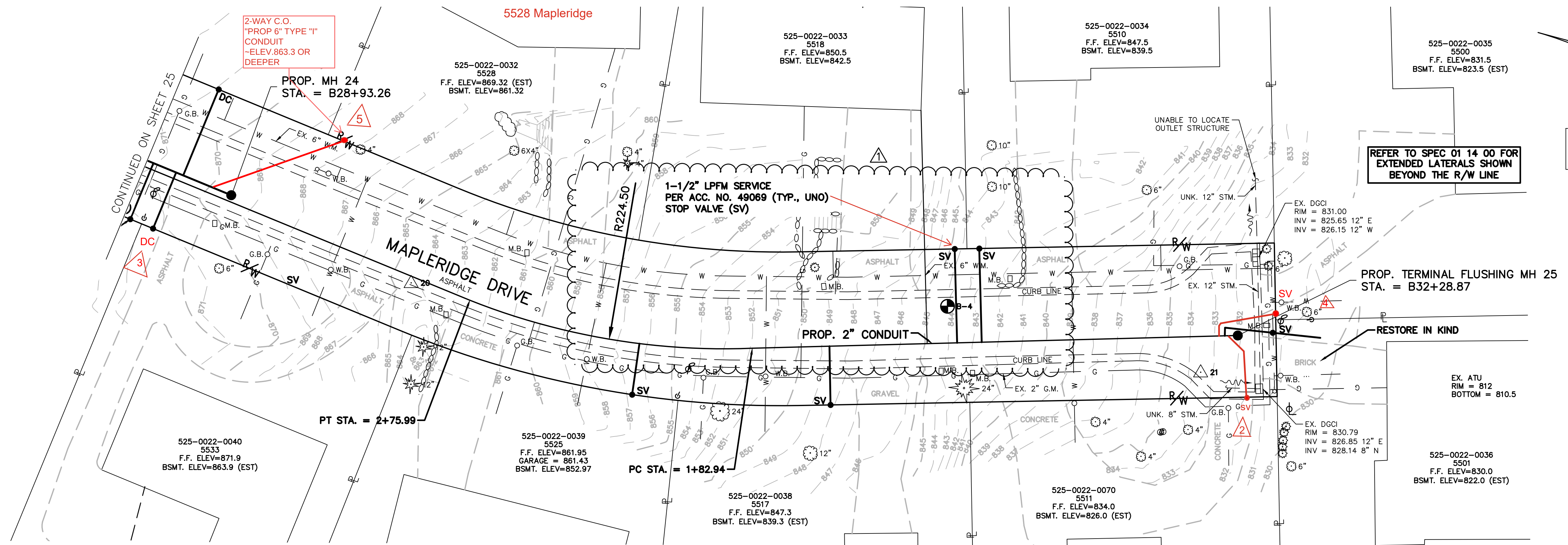


EXHIBIT A



REFER TO SPEC 01 14 00 FOR
EXTENDED LATERALS SHOWN
BEYOND THE R/W LINE

NOTE:
MAPLERIDGE DRIVE REQUIRES
FULL MILL AND PAVE.

ALL ATU AND
COLLECTOR/STORM TO
REMAIN IN SERVICE

REVISIONS			
DESIGNED BY: GEW	BY:	DATE:	DESCRIPTION:
DRAWN BY: DAJ	RRM	11-11-2025	RFI UPDATES
	DEA	1/23/2026	2 Moved 5511 Mapleridge Drive CO per PO request
	DEA	4/30/2026	3 Change 5533 Mapleridge designation from SV to DC
	DEA	4/30/2026	4 Moved 5500 Mapleridge Drive CO
	DEA	8/5/2026	5 5528 Mapleridge CO relocated and changed to gravity wye



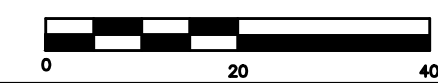
THE METROPOLITAN SEWER DISTRICT
OF GREATER CINCINNATI
HAMILTON COUNTY, OHIO



PROPOSED SANITARY SEWER NO. SS 5933

FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM THE
CUL-DE-SAC OF MAPLE RIDGEDR AND VISTARIDGE DR TO THE CABANA CLUB DR ALONG COACHLITE

SCALE: HORIZ. 1"=20'
VERT. 1"=10'



MAPLERIDGE DRIVE

PROFILE AND PLAN

ACC. NO. 78253

SHEET 26 OF 34

SS# 5933

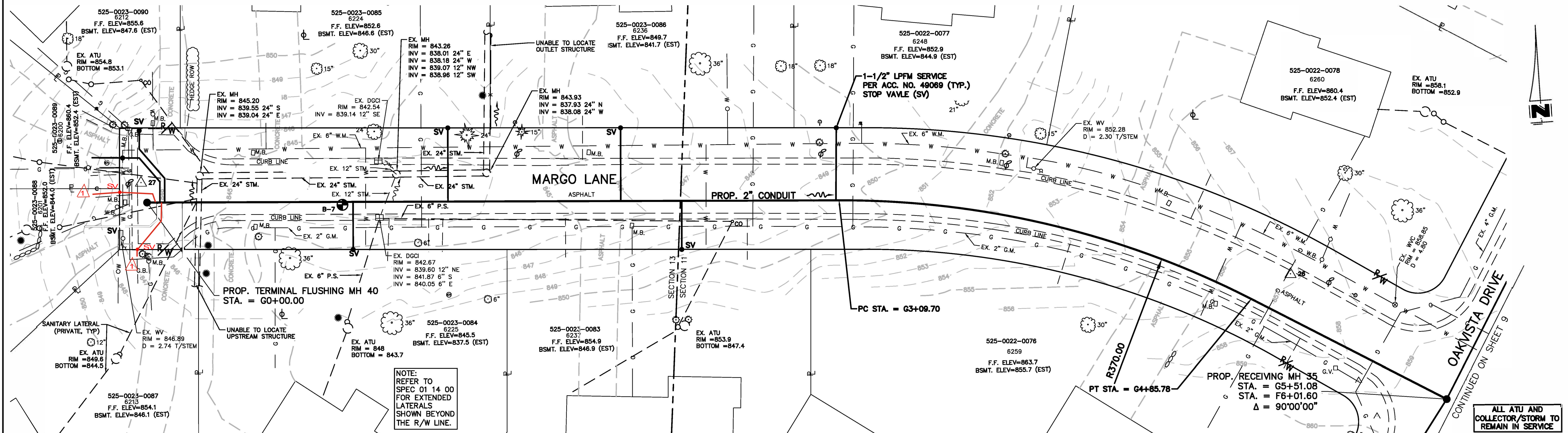
ACAD DRAWING NAME: RA CONSULTANTS KENWOOD_AS BUILT.DWG

FOR EASEMENT DRAWING SEE ACC. NO. _____

PATH: N:\JCRS\2018\18026 - KENWOOD HILLS LOCAL SEWER - JUNE10\WATER_WASTEWATER\600 CAD\BASE\AS BUILT\RA CONSULTANTS KENWOOD_AS BUILT.DWG
DATE: Nov 13, 2025 - 09:40 AM
PLOT BY: RMCLAN

PRINTS NOT BEARING THIS STAMP WERE
MADE PRIOR TO ADVERTISING FOR BIDS
AND ARE TO BE CONSIDERED OBSOLETE
FOR CONTRACT PURPOSES.

NOTE:
MARGO LANE REQUIRES FULL
MILL AND PAVE.



**ALL ATU AND
COLLECTOR/STORM TO
REMAIN IN SERVICE**

DESIGNED BY: GEW DRAWN BY: DAJ	REVISIONS		
	BY:	DATE:	DESCRIPTION:
	DEA	8/31/2026	1 Relocated CO s for 6201 and 6213 Margo Lane



THE METROPOLITAN SEWER DISTRICT
OF GREATER CINCINNATI
HAMILTON COUNTY, OHIO



FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM THE CUL-DE-SAC OF MAPLE RIDGEDR AND VISTARIDGE DR TO THE CABANA CLUB DR ALONG COACHLITE

SCALE: HORIZ. 1"=20'
VERT. 1"=10'



PROFILE AND PLAN

ACC. NO. 78254

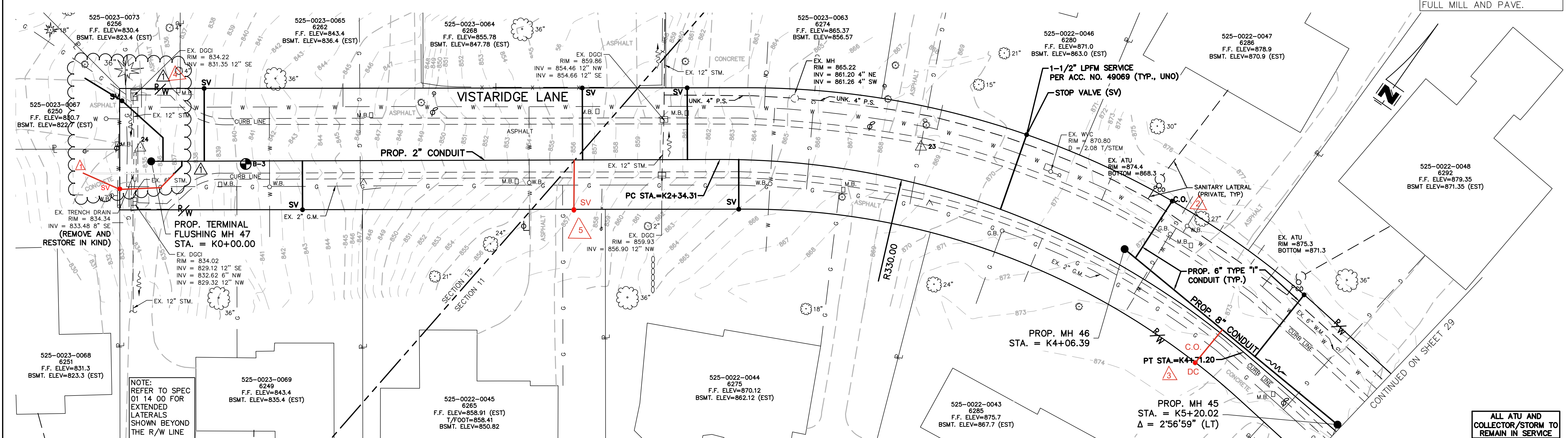
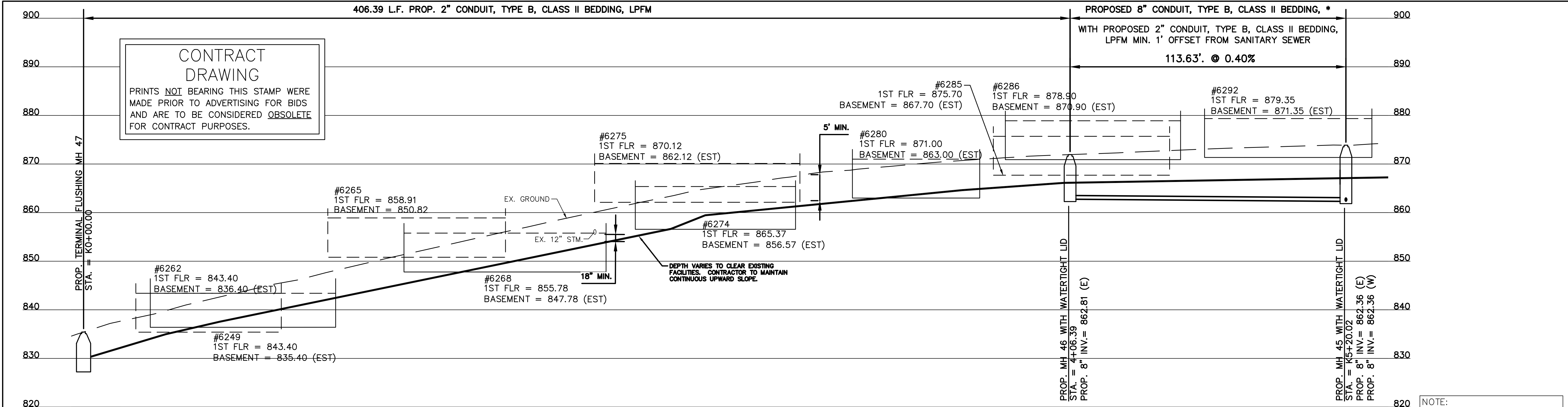
SHEET 27 OF 34

SS# 5933

ACAD DRAWING NAME: RA CONSULTANTS KENWOOD_AS BUILT.DWG

FOR EASEMENT DRAWING SEE ACC. NO. _____

PATH: N:\JOBS\2018\19926 - KENWOOD HILLS LOCAL SEWER - JUNE10\WATER_WASTEWATER\600 CAD\BASE\AS BUILT\RA CONSULTANTS KENWOOD_AS BUILT.DWG
 DATE: Nov 13, 2025 - 09:40 AM
 PLOTTED BY: RMCLEAN



DESIGNED BY: GEW		DATE: 11-11-2025		DESCRIPTION:	
RRM	11-11-2025	RFI UPDATES			
DEA	1/15/2026	2 6286 Vistaridge remove "DC" as this house is served by gravity			
DEA	1/23/2026	3 6285 Vistaridge move CO based on PO request			
DEA	4/17/2026	4 6256 Vistaridge CO deleted. Property has sewer service already.			
DEA	4/30/2026	5 6265 Vistaridge moved CO			
DEA	8/31/2026	6 6251 Vistaridge Lane CO moved			

THE METROPOLITAN SEWER DISTRICT
OF GREATER CINCINNATI
HAMILTON COUNTY, OHIO

WASTEWATER
ENGINEERING

PROPOSED SANITARY SEWER NO. SS 5933

FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM THE CUL-DE-SAC OF MAPLE RIDGEDR AND VISTARIDGE DR TO THE CABANA CLUB DR ALONG COACHLITE

SCALE: HORIZ. 1"=20'
VERT. 1"=10'

VISTA RIDGE LANE

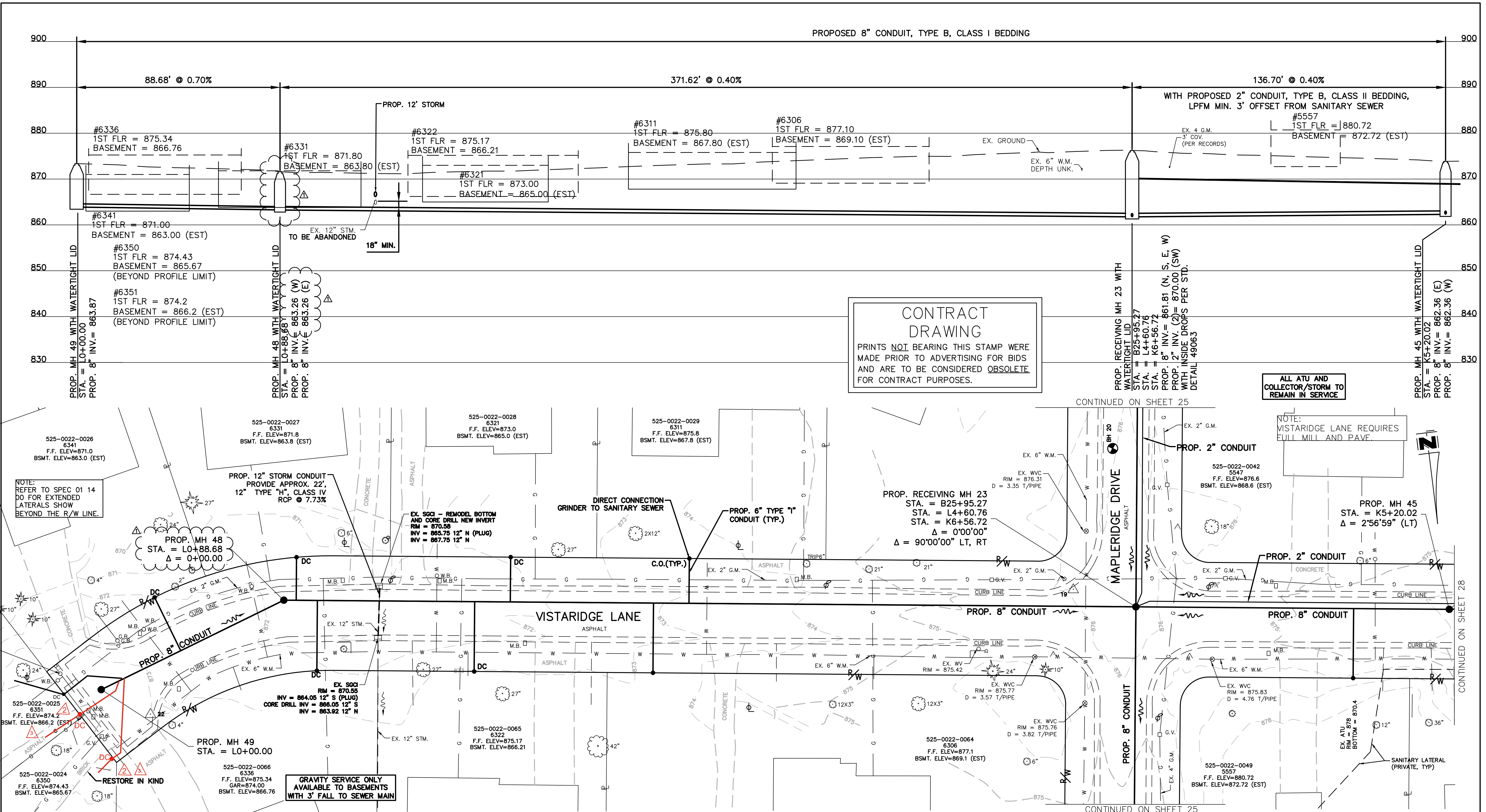
PROFILE AND PLAN

ACC. NO. 78255

SHEET 28 OF 34

SS# 5933

PATH: N:\J085\2018\18026 - KENWOOD HILLS LOCAL SEWER - JUNE10\WATER_WASTEWATER\600 CAD\BASE\AS BUILT\RA CONSULTANTS KENWOOD_REVISED.DWG
DATE: Feb 3, 2026 - 04:03 PM
PLOT BY: RMCLEAN



CONTRACT
DRAWING

PRINTS NOT BEARING THIS STAMP WERE
MADE PRIOR TO ADVERTISING FOR BIDS
AND ARE TO BE CONSIDERED OBSOLETE
FOR CONTRACT PURPOSES.

ALL ATU AND
COLLECTOR/STORM TO
REMAIN IN SERVICE

NOTE:
VISTARIDGE LANE REQUIRES
FULL MILL AND PAVE.

REVISIONS			DESCRIPTION:
BY:	DATE:		
JAT	02/03/2026	1	MH 48 CORRECTIONS
DEA	3/3/2026	2	6350 and 6351 CO and extension moved by PO
DEA	8/31/2026	3	6350 and 6351 CO and extension moved



THE METROPOLITAN SEWER DISTRICT
OF GREATER CINCINNATI
HAMILTON COUNTY, OHIO



PROPOSED SANITARY SEWER NO. SS 5933

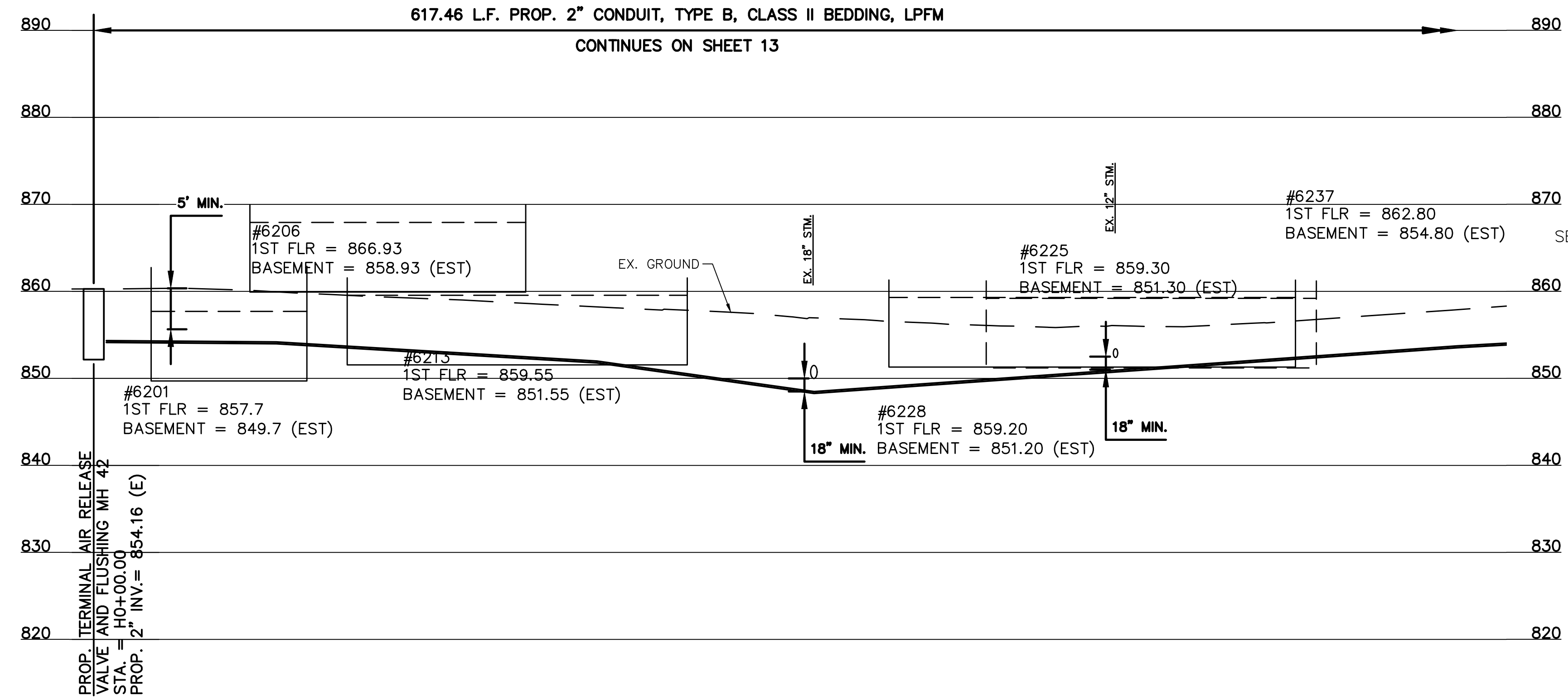
FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM THE
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SCALE: HORIZ. 1"=20'
VERT. 1"=10'

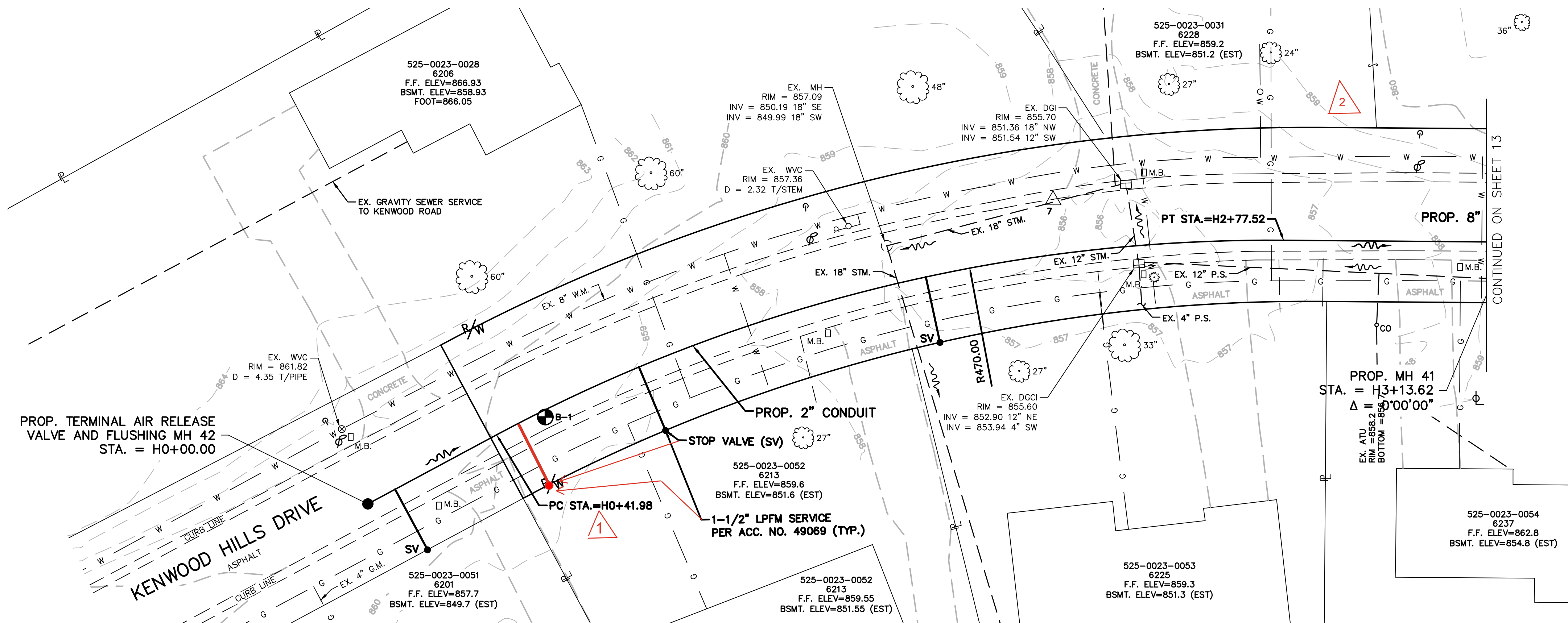
VISTA RIDGE LANE

PROFILE AND PLAN

CONTRACT
DRAWING
PRINTS NOT BEARING THIS STAMP WERE
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FOR CONTRACT PURPOSES.



NOTE:
KENWOOD HILLS DRIVE
REQUIRES FULL MILL AND
PAVE.

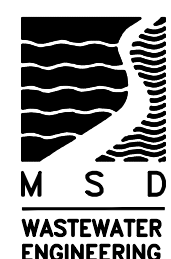


ALL ATU AND
COLLECTOR/STORM TO
REMAIN IN SERVICE

DESIGNED BY: GEW			
BY:	DATE:	REVISIONS	
DEA	12/11/2025	1	Move 6213 Kenwood Hills CO per PO request
DEA	1/23/2026	2	Moved 6228 Kenwood Hills CO to gravit sewer on Sht 13



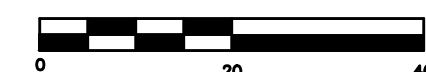
THE METROPOLITAN SEWER DISTRICT
OF GREATER CINCINNATI
HAMILTON COUNTY, OHIO



PROPOSED SANITARY SEWER NO. SS 5933

FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM THE
CUL-DE-SAC OF MAPLE RIDGEDR AND VISTARIDGE DR TO THE CABANA CLUB DR ALONG COACHLITE

SCALE: HORIZ. 1"=20'
VERT. 1"=10'



KENWOOD HILLS DRIVE

PROFILE AND PLAN

ACC. NO. 78257

SHEET 30 OF 34

SS# 5933

ACAD DRAWING NAME: RA CONSULTANTS KENWOOD_AS BUILT.DWG

FOR EASEMENT DRAWING SEE ACC. NO. _____

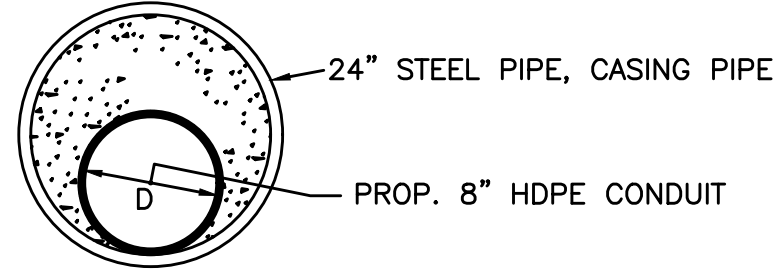
PATH: N:\JCRS\2019\8926 - KENWOOD HILLS LOCAL SEWER - JUNE10\WATER_WASTEWATER\600 CAD\BASE\AS BUILT\RA CONSULTANTS KENWOOD_AS BUILT.DWG
DATE: Nov 13, 2025 - 09:40 AM
PLOTTED BY: RM CLEAN

PRINTS NOT BEARING THIS STAMP WERE
MADE PRIOR TO ADVERTISING FOR BIDS
AND ARE TO BE CONSIDERED OBSOLETE
FOR CONTRACT PURPOSES.

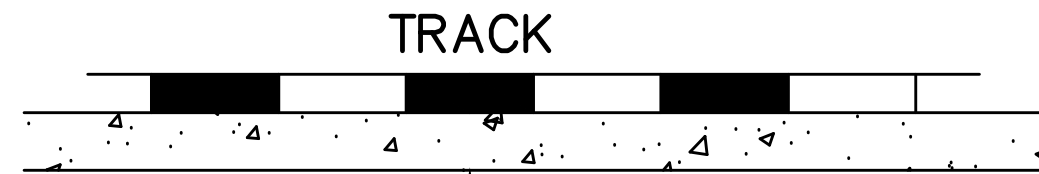
SS# 5933

FILL WITH A LEAN (1 TO 8) MIXTURE OF CEMENT AND SAND OR CEMENT, SAND AND PEA GRAVEL RAMMED OR BLOWN INTO PLACE DRY. SOME POSITIVE MEANS TO ASSURE THAT THE SPACE IS COMPLETELY FILLED, FREE OF ANY VOIDS, SHALL BE USED.

PROP. CONDUIT SIZE "D"	MINIMUM STEEL CASING WALL THICKNESS
8"	0.375"

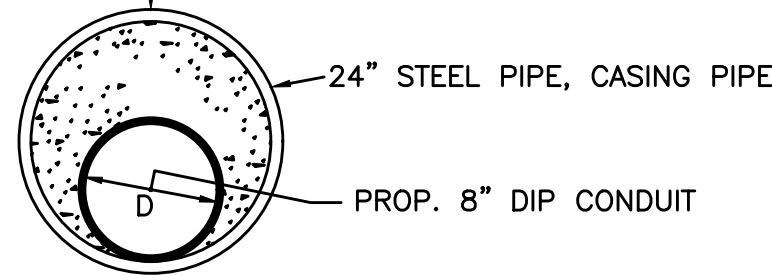


JACK AND BORE INSTALLATION OF HDPE PIPE DETAIL, BETWEEN COACHLITE WAY AND CABANA CLUB
NOT TO SCALE

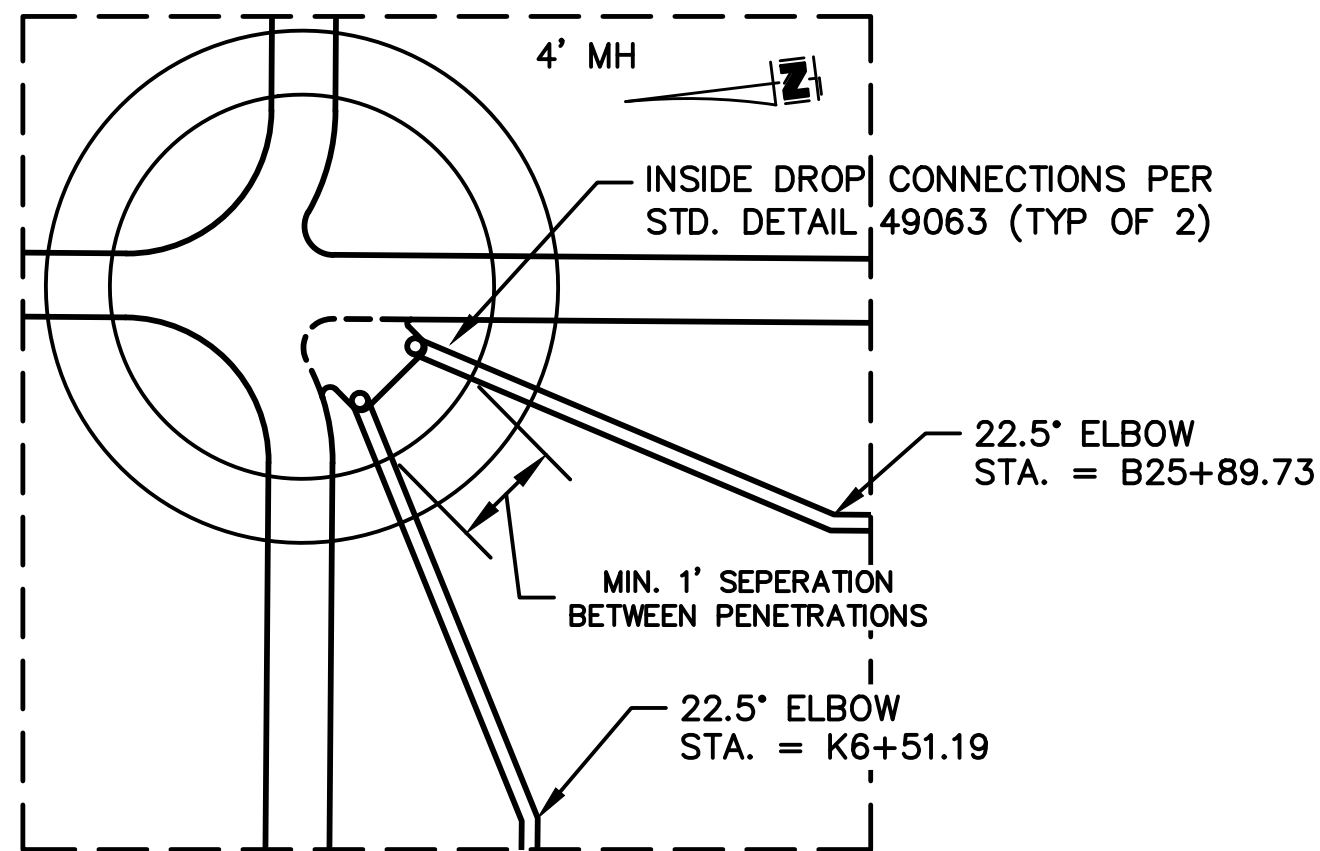


FILL WITH A LEAN (1 TO 8) MIXTURE OF CEMENT AND SAND OR CEMENT, SAND AND PEA GRAVEL RAMMED OR BLOWN INTO PLACE DRY. SOME POSITIVE MEANS TO ASSURE THAT THE SPACE IS COMPLETELY FILLED, FREE OF ANY VOIDS, SHALL BE USED.

PROP. CONDUIT SIZE "D"	MINIMUM STEEL CASING WALL THICKNESS
8"	0.375"



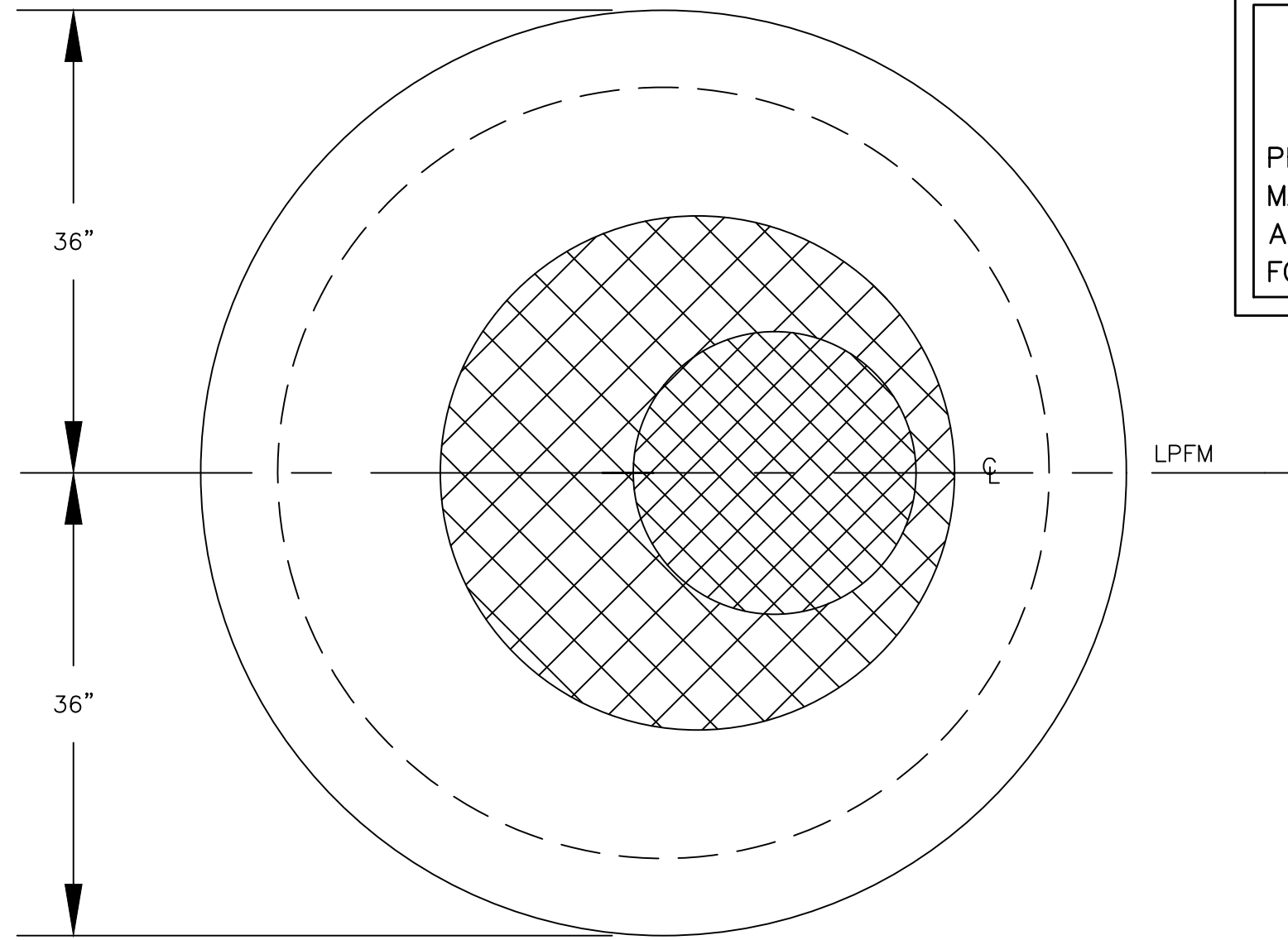
PROPOSED JACK AND BORE INSTALLATION OF DIP PIPE DETAIL RAILROAD SECTION
NOT TO SCALE



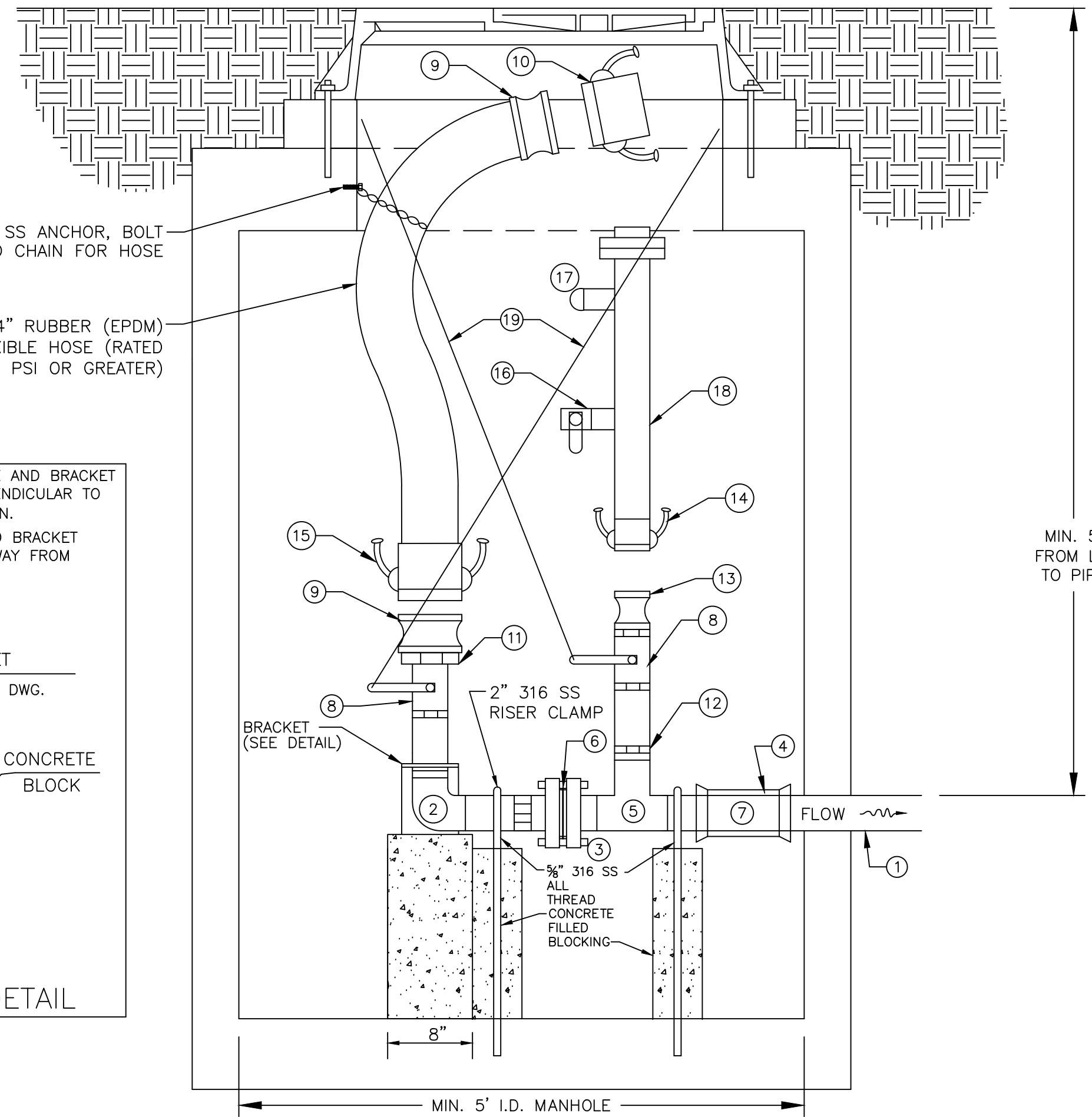
PROP. MH 23 DETAIL PLAN
SCALE: 1"=2'
SEE SHEET 25

MATERIAL LIST - ALL MATERIAL TO BE 316 STAINLESS STEEL

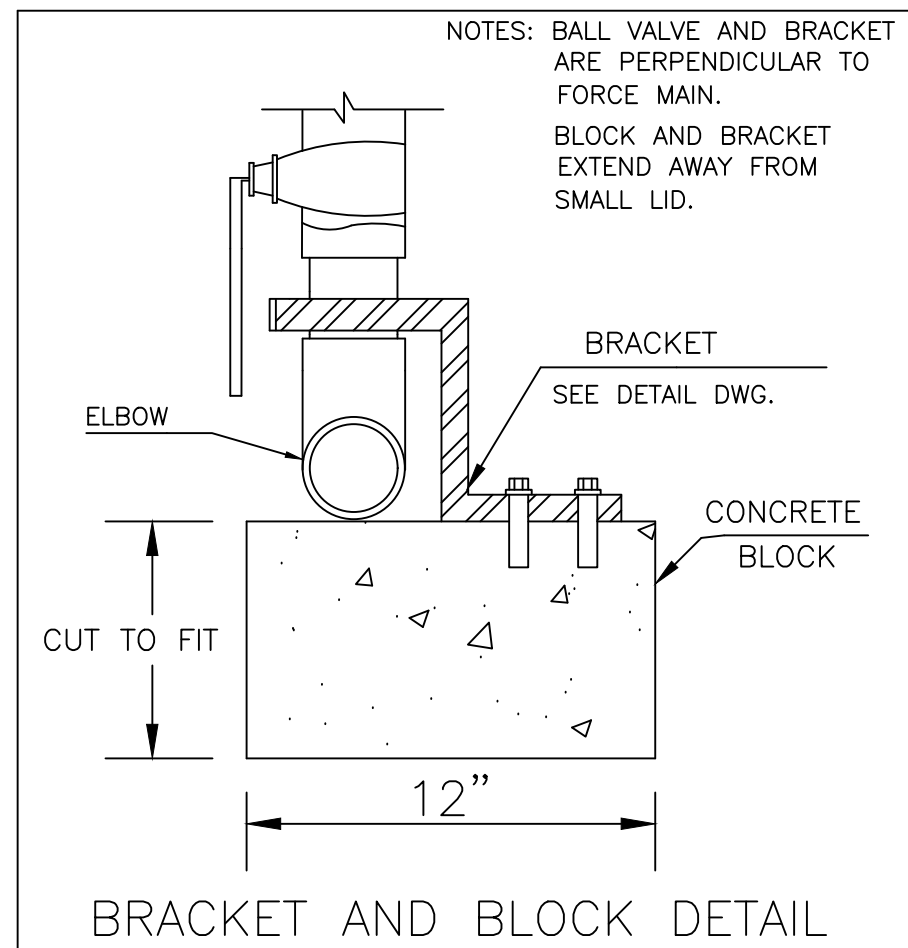
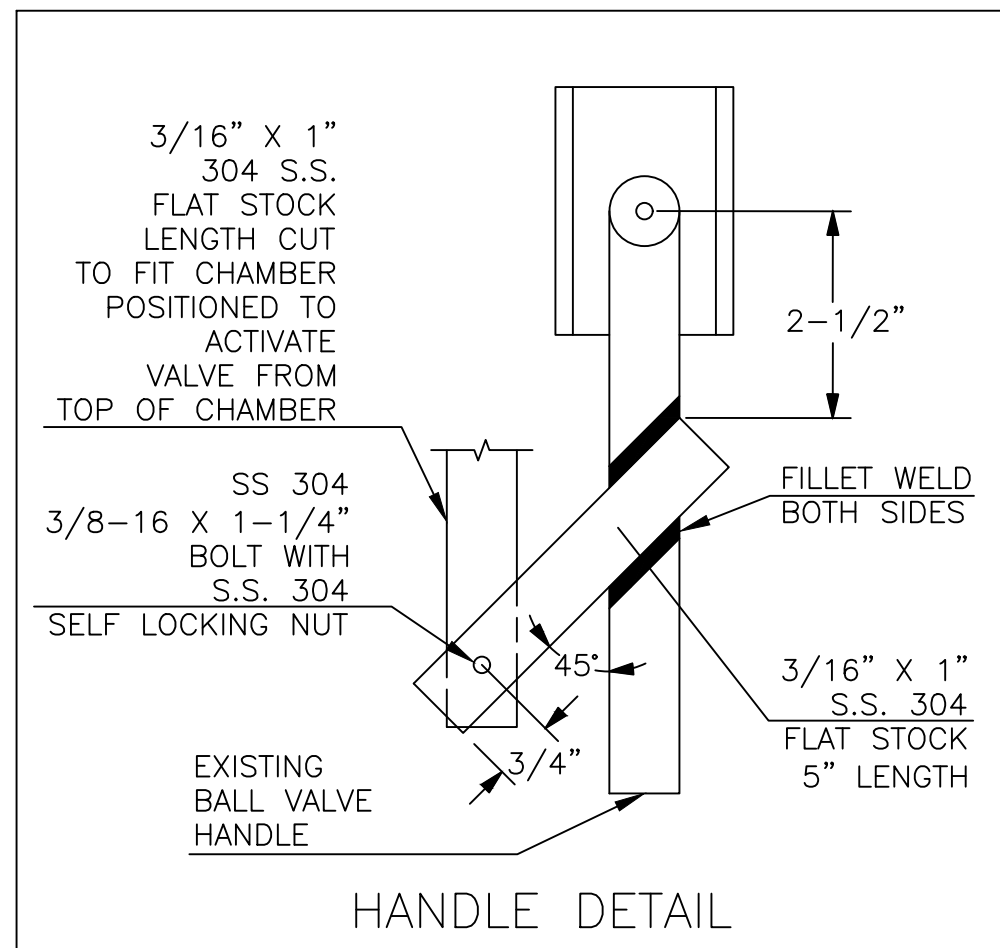
- 2" SCHEDULE 40 PVC SOCKET FEMALE ADAPTER OR HDPE EQUIVALENT
- 2" 90° ELBOW
- FLANGES WITH HEX HEAD CAP SCREW 5/8" x 3-1/2"
18-8 SS WITH 18-8 WASHER AND 18-8 5/8"-11 NYLOCK NUT
- 2" THREADED PIPE CUT TO LENGTH
- 2"x2"x2" TEE
- 1/8" RUBBER GASKET
- ROMAC MODEL #511 EPOXY COATED WITH SS HARDWARE
- 2" FULL PORT BALL VALVE
- 4" MALE CAMLOCK
- 4" DUST CAP
- 2"x4" REDUCER
- 2" NIPPLE
- 2" MALE CAMLOCK
- 2" FEMALE CAMLOCK WITH HITCH PINS INSTALLED IN LOCK POSITION
- 4" FEMALE CAMLOCK WITH HITCH PINS INSTALLED IN LOCK POSITION
- 1" FULL PORT BALL VALVE
- 1" PIPE CAP
- VENT-TECH OR VENT-O-MAT AIR RELEASE VALVE
- VALVE ACTIVATION HANDLES (SEE DETAIL)



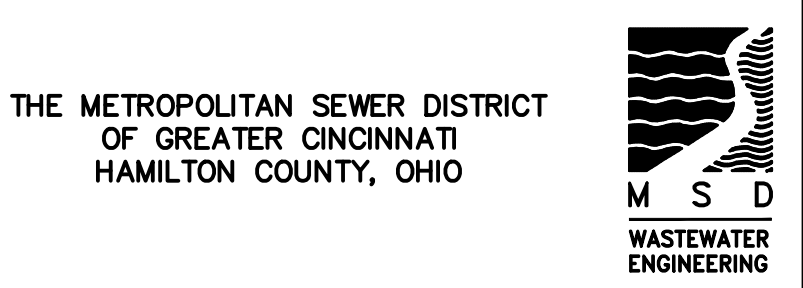
CONTRACT DRAWING
PRINTS NOT BEARING THIS STAMP WERE MADE PRIOR TO ADVERTISING FOR BIDS AND ARE TO BE CONSIDERED OBSOLETE FOR CONTRACT PURPOSES.



2 INCH TERMINAL AIR RELEASE VALVE (ARV) AND FLUSHING MANHOLE
NOT TO SCALE



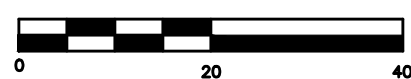
DESIGNED BY: GEW	BY:	DATE:	REVISIONS	DESCRIPTION:
DRAWN BY: DAJ				



PROPOSED SANITARY SEWER NO. SS 5933

FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM THE CUL-DE-SAC OF MAPLE RIDGEDR AND VISTARIDGE DR TO THE CABANA CLUB DR ALONG COACHLITE

SCALE: HORIZ. 1"=20'
VERT. 1"=10'



NOTES & DETAILS

PLAN

ACC. NO. 78260

SHEET 32 OF 34

SS# 5933

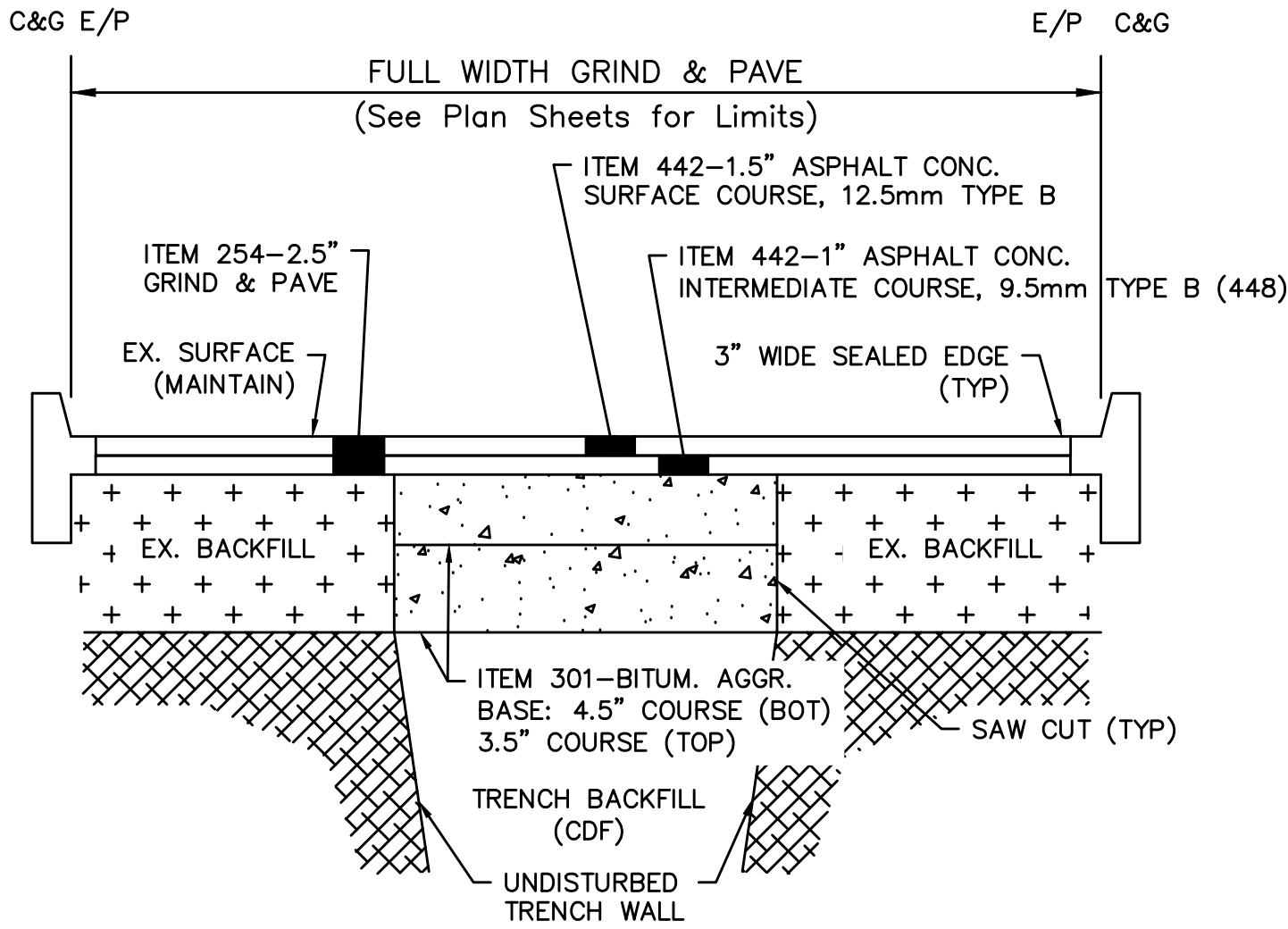
DETAILS

PATH: N:\JOBS\2018\18926 - KENWOOD HILLS LOCAL SEWER - JUNE10\WATER_WASTEWATER\600 CAD\BASE\AS BUILT\RA CONSULTANTS KENWOOD_AS BUILT.DWG
DATE: Nov 13, 2025 - 09:40 AM
PLOTTED BY: RMCLEAN

ACAD DRAWING NAME: RA CONSULTANTS KENWOOD_AS BUILT.DWG

FOR EASEMENT DRAWING SEE ACC. NO. _____

PATH: N:\J085\2018\18026 - KENWOOD HILLS LOCAL SEWER - JUNE10\WATER_WASTEWATER\600 CAD\BASE\AS BUILT\RA CONSULTANTS KENWOOD_AS BUILT.DWG
DATE: Nov 13, 2025 - 09:40 AM
PLOTTED BY: RMCLEAN



HCEO ROADWAY NOTES:

- SAW CUT FULL DEPTH PAVEMENT WITH WET DIAMOND BLADE SAW. VERMEER WILL NOT BE PERMITTED.
- VERTICAL FACE OF EXISTING PAVEMENT SHALL BE CLEANED BY COMPRESSED AIR AND WETTED PRIOR TO PLACING CONCRETE.
- PLACE AND COMPACT ASPHALT CONCRETE SURFACE COURSE IN ACCORDANCE WITH ODOT CMS ITEM 401.
- ITEM 702.04-EDGES OF NEW ASPHALT SURFACE COURSE SHALL BE SEALED WITH A UNIFORM 3" WIDTH OF HOT APPLIED ASPHALT BINDER.
- IF THE PROPOSED PAVEMENT WIDTH IS GREATER THAN 3'-0", THE CONTRACTOR HAS THE OPTION TO USE ODOT CMS ITEM 301-ASPHALT CONCRETE BASE.
 - ASPHALT CONCRETE BASE MUST BE PLACED AND COMPACTED IN TWO EQUAL LIFTS, THE TOTAL THICKNESS OF ASPHALT BASE SHALL BE 8".
 - PRIOR TO PLACING THE ASPHALT BASE, ALL VERTICAL SURFACE SHALL BE CLEANED AND COATED WITH BITUMINOUS MATERIAL IN ACCORDANCE WITH ODOT 407.02.
- BUTT JOINTS ARE NECESSARY AT INTERSECTING STREETS.
- ALL CASTING ADJUSTMENTS, REMOVAL OF PAVEMENT MARKERS, AND THE INSTALLATION OF NEW LINE STRIPING AND MARKERS SHALL BE INCLUDED.
- ALL NECESSARY DRIVEWAY ADJUSTMENTS AND SEALING SHALL ALSO BE INCLUDED. THERE WILL BE NO ADDITIONAL COMPENSATION FOR PAVING WORK; ALL COST ASSOCIATED WITH PAVING AND DRIVEWAYS SHOULD BE INCLUDED IN THE BID PRICE UNDER INSTALLATION OF 8" SEWER CONDUIT.

HCEO DRIVEWAY NOTES:

REGULATED HAMILTON COUNTY ENGINEERS OFFICE DETAILS (SEE HCEO "DRIVEWAY RULES AND REGULATIONS" MANUAL (http://www.hamilton-co.org/engineer/permits_manuals.htm)

- PLATE 13 - TEMPORARY PAVEMENT RESTORATION
- PLATE 15 - TYPICAL RESTORATION SECTIONS
- PLATE 30 - TRENCH PLATES

PIPE ALTERNATES
(SEE PROFILE VIEW CONDUIT LABELS)

*	- PVC SDR 35 (ASTM D3034) w/ FLEXIBLE ELASTOMERIC SEALS (ASTM D3212) - DUCTILE IRON PIPE (ASTM A746) w/ PUSH-ON JOINTS (AWWA C111)
LPFM (INSTALLED PER ASTM D3211)	HDPE DR11 (ASTM D3035) IPS w/ BUTT FUSION JOINTS (ASTM F1055) AND MOLDED FITTINGS (ASTM 3261)
	PVC SDR 21 PIPE AND FITTINGS (ASTM D2241) w/ FLEXIBLE ELASTOMERIC SEALS (ASTM D3139); ALL FITTINGS SHALL BE RESTRAINED AND CONFORM TO THE REQUIREMENTS OF SDR21

UTILITY CONTACT INFORMATION

ELECTRIC:	DUKE ENERGY 139 EAST FOURTH STREET, ROOM 467A CINCINNATI, OHIO 45202 MR. CONAN GIBSON (513) 287-4653 conan.gibson@duke-energy.com	SANITARY:	METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI 1600 GEST STREET CINCINNATI, OHIO 45204 MR. DANIEL ANDERSON (513) 582-0475 daniel.anderson@cincinnati-oh.gov
	GAS:		GREATER CINCINNATI WATER WORKS 4747 SPRING GROVE AVENUE CINCINNATI, OHIO 45232 MR. RICK RIESS (513) 591-5058 rick.riess@gcww.cincinnati-oh.gov
TELEPHONE:	DUKE ENERGY 139 EAST FOURTH STREET, ROOM 406A CINCINNATI, OHIO 45202 MR. RICHARD HACKER (513) 287-4653 richard.hacker@duke-energy.com	CABLE:	SPECTRUM/TIME WARNER CABLE 11252 CORNELL PARK DRIVE CINCINNATI, OHIO 45242 MR. JIM O'REILLY (513) 386-5483 Jim.O'Reilly@charter.com
	ALTA FIBER 221 EAST FOURTH STREET, BLDG. 121-900 P.O. BOX 2301 CINCINNATI, OHIO 45201-2301 MR. BRECK COWEN (513) 565-7187 breck.cowen@altafiber.com		

DUKE ENERGY NOTES TO CONTRACTOR:

CONTRACTOR SHALL CONTACT THE COMPANY PRIOR TO EXCAVATION IN THE VICINITY OF ELECTRIC UNDERGROUND FACILITIES OR WHEN WORKING IN CLOSE PROXIMITY OF OVERHEAD ELECTRIC FACILITIES.

- FOR FIELD INSPECTOR TO LOCATE UNDERGROUND ELECTRIC LINES: IN OHIO, CALL "OHIO UTILITIES PROTECTION SERVICE", 1-800-362-2764; IN KENTUCKY, CALL "KENTUCKY DIG SAFELY", 1-800-752-6007. THESE CALLS SHOULD BE MADE AT LEAST 48 HOURS IN ADVANCE, EXCLUDING SATURDAYS, SUNDAYS, AND STATE LEGAL HOLIDAYS.
- FOR NOTIFICATION OF CONSTRUCTION ACTIVITY NEAR ENERGIZED ELECTRIC FACILITIES OR NEEDING A POLE SUPPORTED, CALL (513) 421-9500. WITHIN 2 DAYS A REPRESENTATIVE FROM OUR CONSTRUCTION DIVISION WILL CONTACT THE CUSTOMER AND VERIFY THE LOCATION AND CONDITIONS OF THE JOB SITE. AFTER THIS CONTACT HAS BEEN MADE, A LINE CREW WILL BE OUT TO COVER UP ELECTRIC LINES OR HOLD THE POLE WITHIN 2 TO 3 DAYS.
- FOR ADDITIONAL UNDERGROUND ELECTRIC RECORD INFORMATION CALL (513) 287-2454.
- FOR ELECTRIC ENGINEERING NOTIFICATION, AGREEMENTS AND CORRESPONDENCE, ADDRESS TO: MR. TOM BIRKENHAUER, DUKE ENERGY CORPORATION, DISTRIBUTION DESIGN ENGINEERING, ROOM 467A, 139 E. FOURTH STREET, P.O. BOX 960 CINCINNATI, OHIO 45202-0960

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO ELECTRIC FACILITIES DURING CONSTRUCTION.

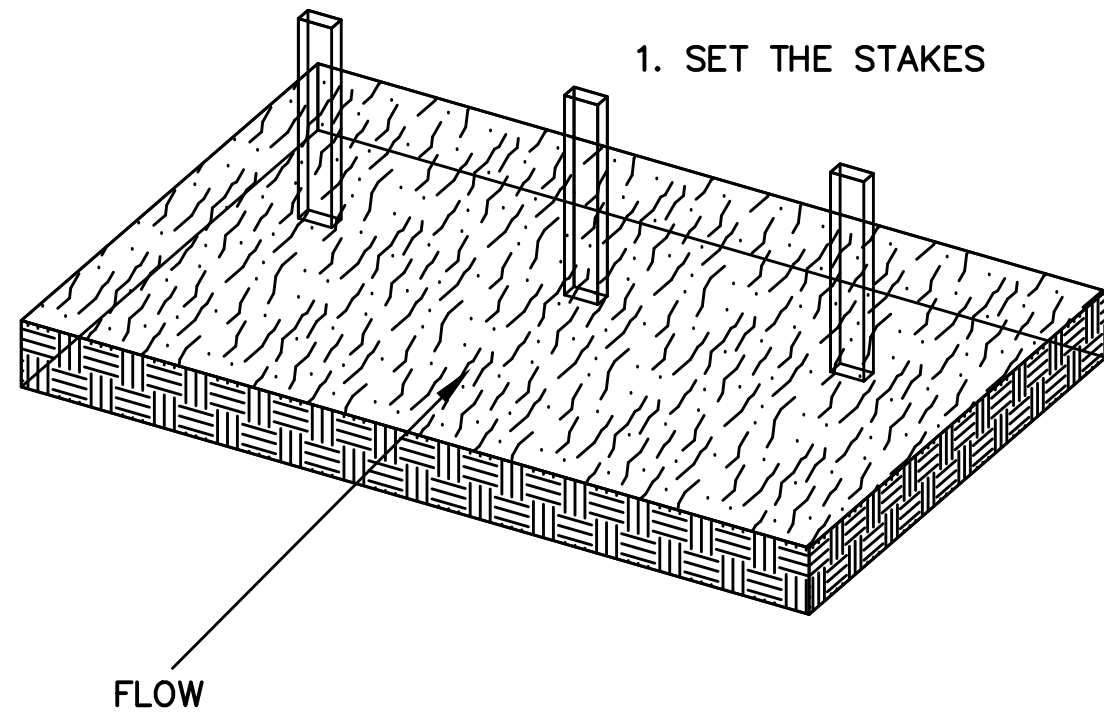
ELECTRIC FACILITIES TO BE KEPT IN SERVICE AT ALL TIMES.

CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING EXISTING ELECTRIC FACILITIES AFFECTED BY THE PROPOSED CONSTRUCTION

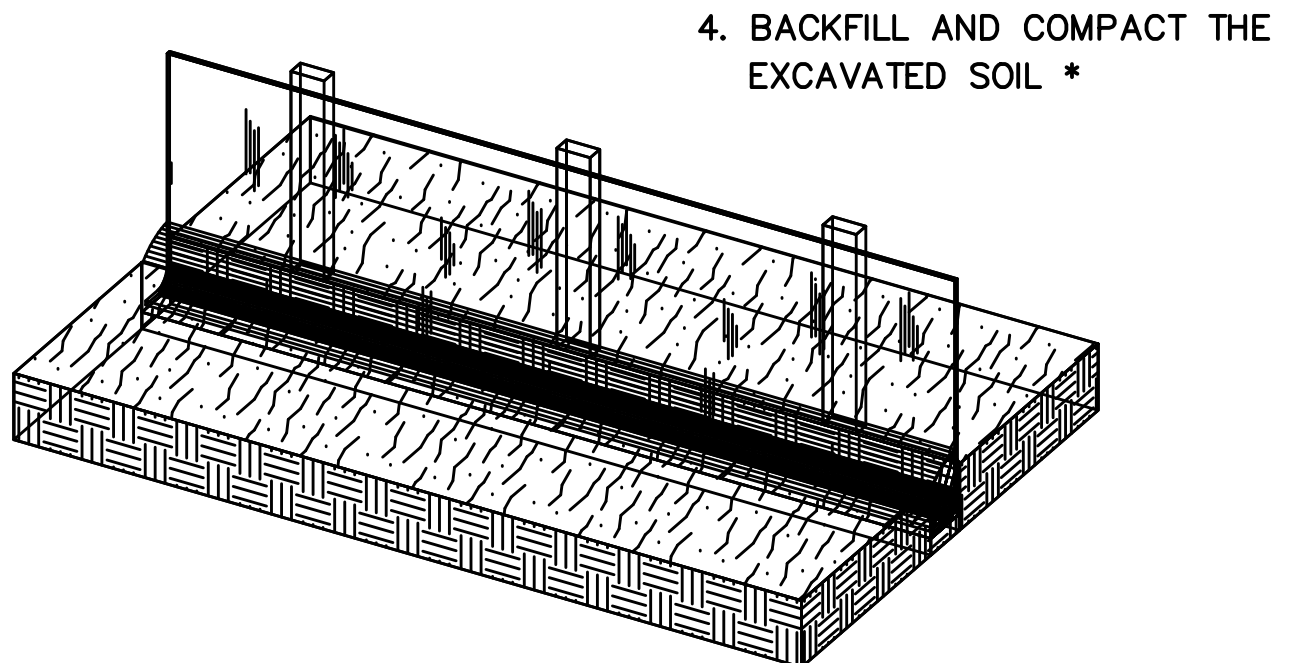
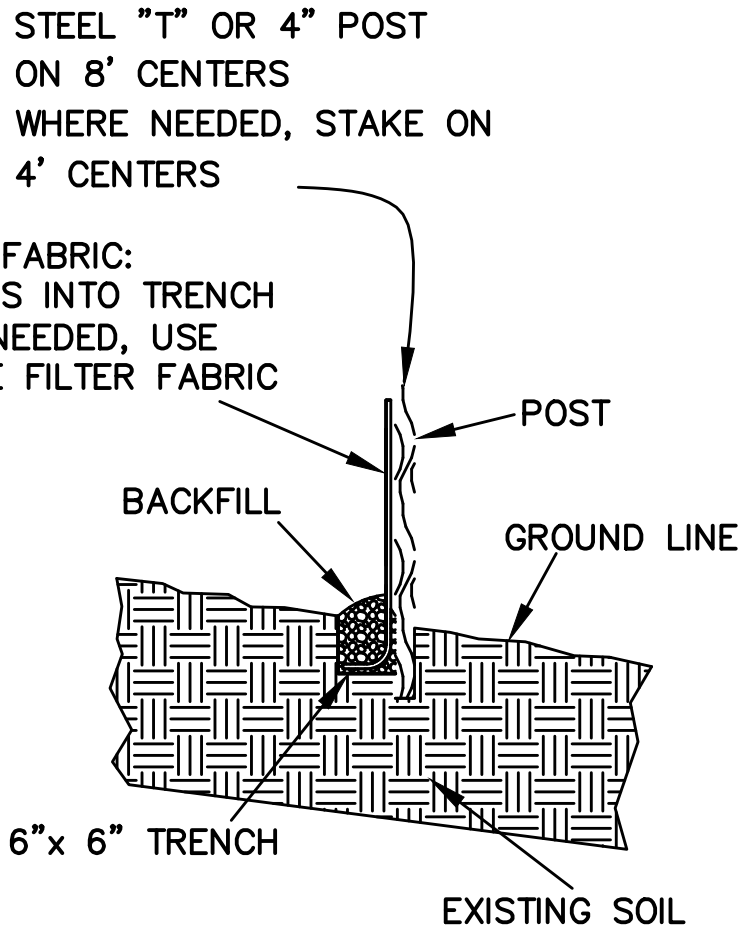
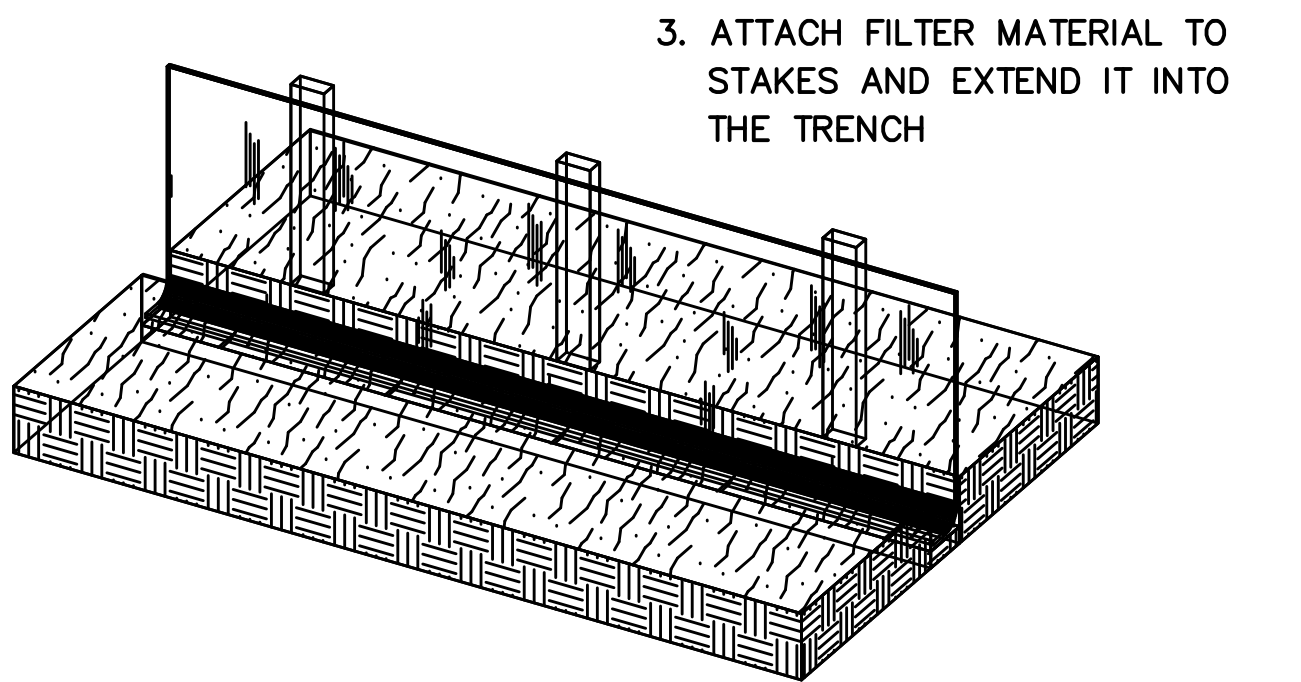
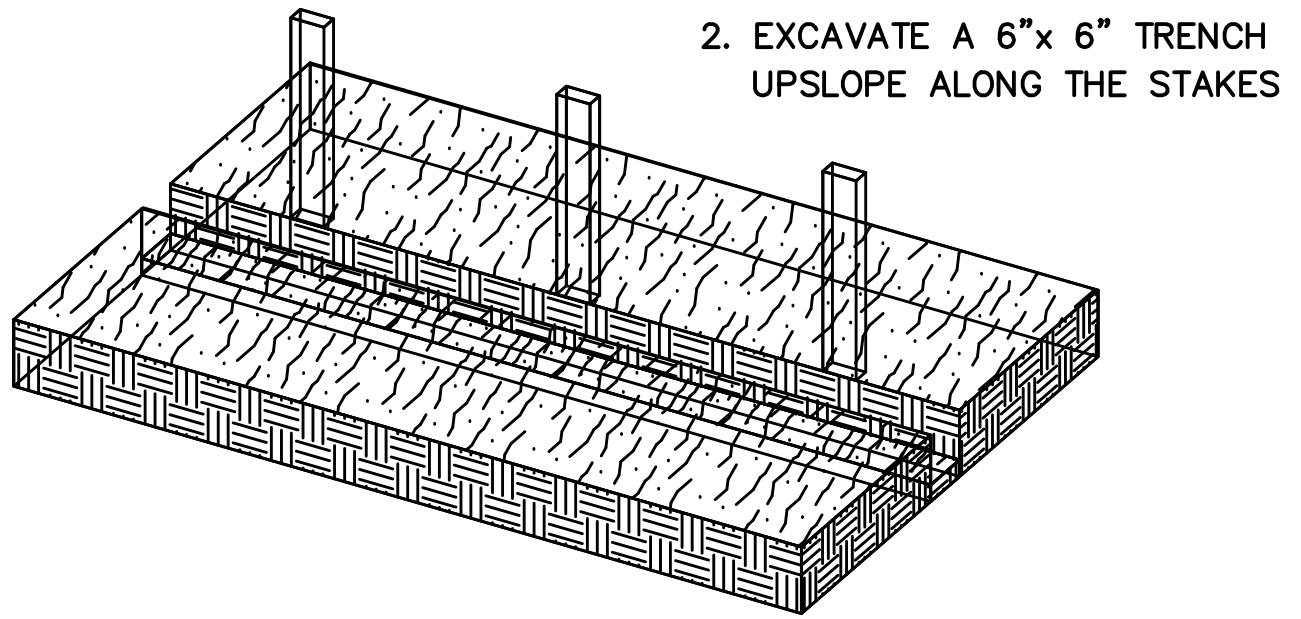
- WHERE HIGH PRESSURE OIL FILLED PIPE TYPE CABLE INSTALLATION ARE EXPOSED OR OTHERWISE INTERFERED WITH BY THE CONTRACTOR, PROTECTION BY THE CONTRACTOR WILL BE REQUIRED AGAINST DAMAGE TO THE COATING OR SURROUNDING THERMAL SAND ENVELOPE.
- WHERE CONCRETE ENCASED CONDUIT SYSTEMS OR DIRECT BURIED CABLE SYSTEMS ARE EXPOSED OR OTHERWISE INTERFERED WITH, THE CONTRACTOR SHALL PROTECT THE SYSTEM AS NECESSARY AGAINST DAMAGE. AS SOON AS FEASIBLE, THE CONTRACTOR SHALL TAKE ADDITIONAL APPROPRIATE STEPS TO PROVIDE PERMANENT MEASURES TO RESTORE SUPPORT. THE METHODS USED SHALL BE BASED ON CONDITIONS TO BE DETERMINED BY THE UTILITY.
- WHERE POLES OR ANCHORS THAT SUPPORT OVERHEAD ELECTRIC FACILITIES ARE EXPOSED OR OTHERWISE INTERFERED WITH, THE CONTRACTOR SHALL PROTECT THEM FROM DAMAGE AND PROVIDE TEMPORARY SUPPORT TO INSURE THE INTEGRITY OF THE SYSTEM. AS SOON AS FEASIBLE, THE CONTRACTOR SHALL TAKE ADDITIONAL APPROPRIATE STEPS TO PROVIDE PERMANENT MEASURES TO RESTORE SUPPORT. THE METHODS USED SHALL BE BASED ON CONDITIONS TO BE DETERMINED BY THE UTILITY.
- WHERE THE DEPTH OF EXCAVATION FOR THE PROPOSED WORK IS GREATER THAN FIVE (5) FEET, THE CONTRACTOR SHALL SHEET AND SHORE THE TRENCH TO CONTINUOUSLY MAINTAIN THE SUPPORT OF ELECTRIC FACILITIES AT LOCATIONS WHERE THE ELECTRIC FACILITIES ARE WITHIN THE ZONE OF INFLUENCE ADJACENT TO THE EXCAVATION AS DETERMINED BY THE NATURAL ANGLE OF RESPONSE OF THE SOIL.
- ALL DAMAGE TO ELECTRIC FACILITIES AND SERVICE REQUIRING ADJUSTMENTS, RELOCATION AND/OR REPAIRS WILL BE MADE AT THE CONTRACTOR'S COST.

CONTRACTOR SHALL NOT BACKFILL EXPOSED ELECTRIC FACILITIES UNTIL THE COMPANY HAS INSPECTED ITS FACILITY OR PERFORMED ANY ADJUSTMENTS AND/OR MAINTENANCE THAT MAY BE REQUIRED.

SHOULD CONTRACTOR DAMAGE ELECTRIC FACILITIES, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DUKE ENERGY CALL CENTER AT (513) 421-9500. CONTRACTOR SHALL KEEP EVERYONE CLEAR OF DAMAGED ELECTRIC FACILITIES UNTIL COMPANY PERSONNEL ARRIVE AT THE WORK SITE.



CONTRACT
DRAWING
PRINTS NOT BEARING THIS STAMP WERE
MADE PRIOR TO ADVERTISING FOR BIDS
AND ARE TO BE CONSIDERED OBSOLETE
FOR CONTRACT PURPOSES.



* SOIL COMPACTION IS CRITICAL TO ELIMINATE CHANNELING UNDER THE SILT FENCE

REINFORCED SILT FENCE INSTALLATION DETAIL

NOT TO SCALE

DESIGNED BY: GEW	REVISIONS		
	BY:	DATE:	DESCRIPTION:
DRAWN BY: DAJ			



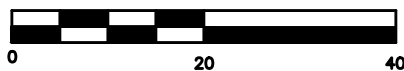
THE METROPOLITAN SEWER DISTRICT
OF GREATER CINCINNATI
HAMILTON COUNTY, OHIO



PROPOSED SANITARY SEWER NO. SS 5933

FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM THE CUL-DE-SAC OF MAPLE RIDGEDR AND VISTARIDGE DR TO THE CABANA CLUB DR ALONG COACHLITE

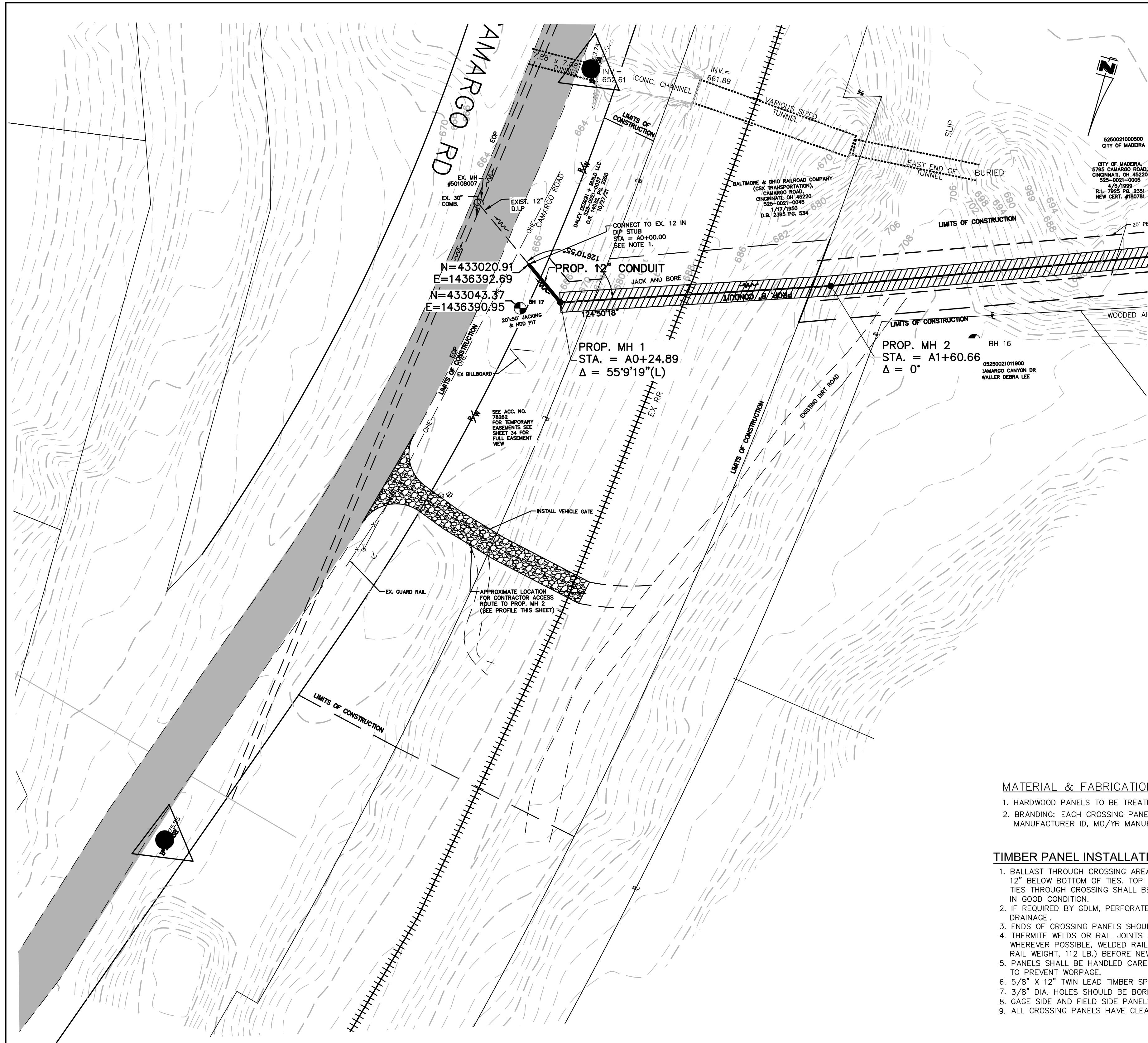
SCALE: HORIZ. 1"=20'
VERT. 1"=10'



NOTES & DETAILS

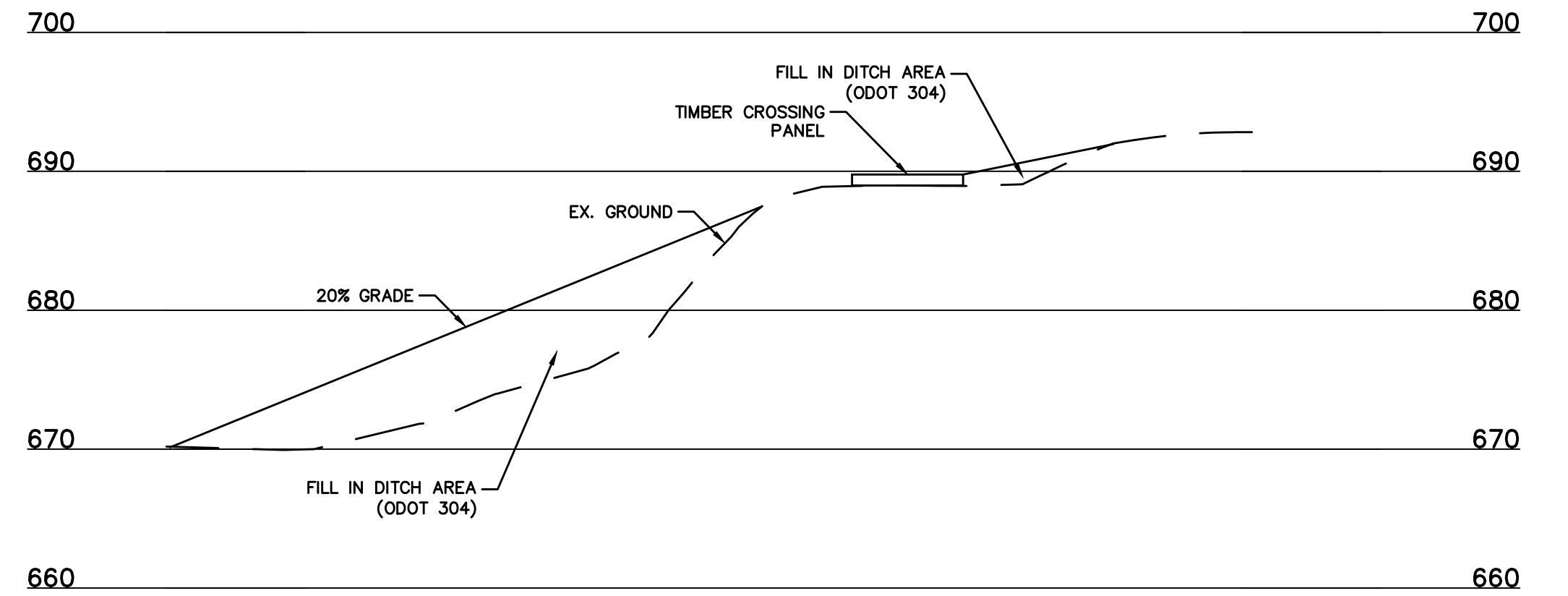
PLAN

PATH: N:\005\2018\18926 - KENWOOD HILLS LOCAL SEWER - JUNE10\WATER_WASTEWATER\600 CAD\SSM\BASE\AS BUILT\KENWOOD HILLS BASEMAP_AS BUILT.DWG
DATE: Nov 13, 2025 - 09:41 AM
PLOT BY: RMCLEAN

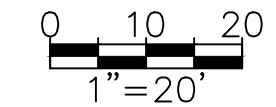


CONTRACT
DRAWING

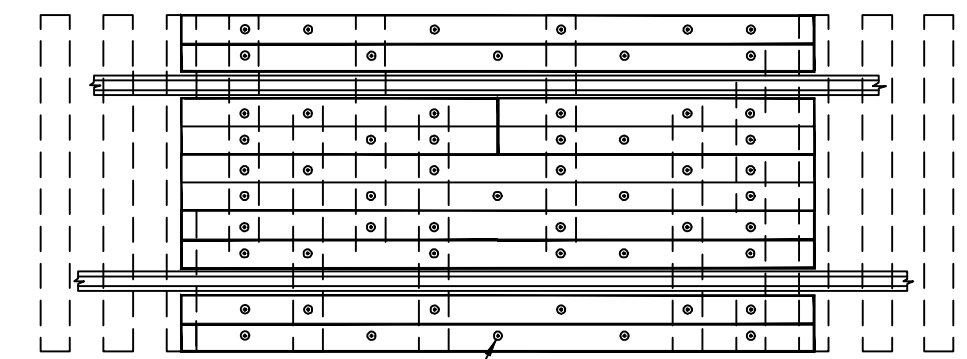
PRINTS NOT BEARING THIS STAMP WERE
MADE PRIOR TO ADVERTISING FOR BIDS
AND ARE TO BE CONSIDERED OBSOLETE
FOR CONTRACT PURPOSES.



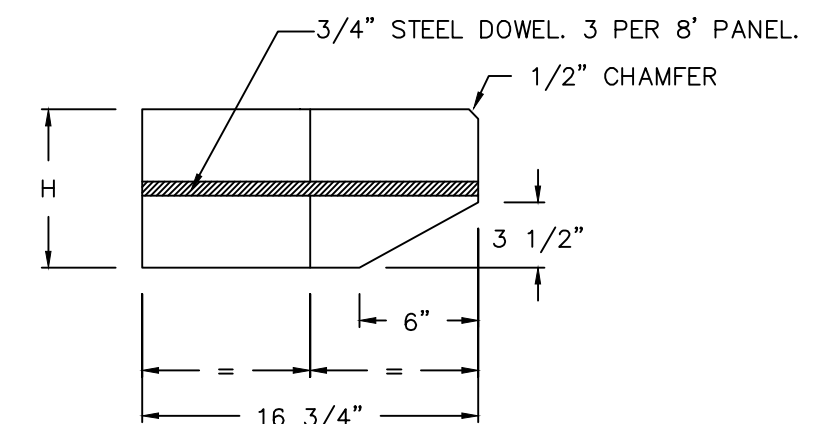
PROFILE OF ACCESS ROAD AT RAILROAD CROSSING



TYPICAL 16' CROSSING

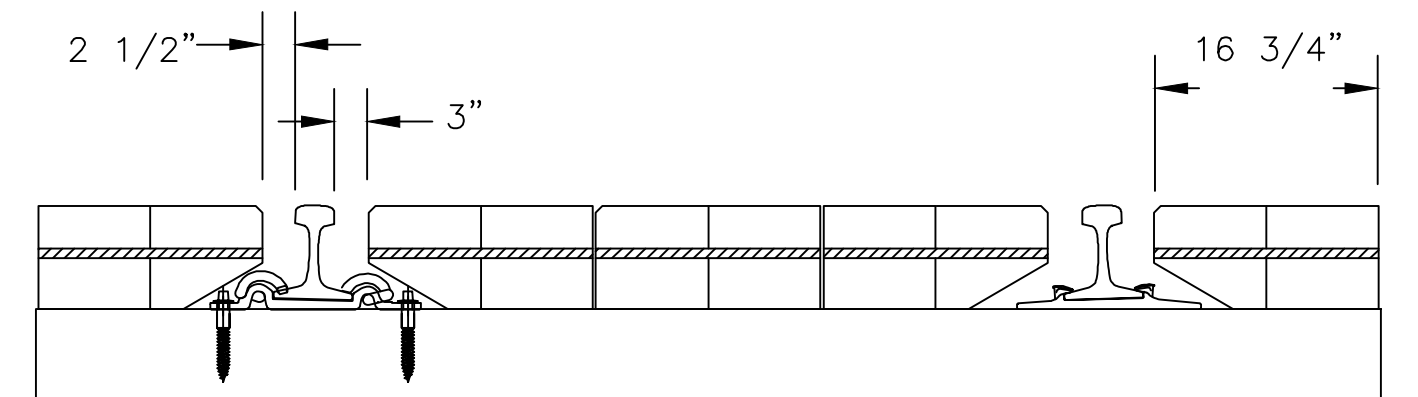


8' & 16' PANELS SHOWN, TYPICAL



TWO PIECE PANEL

H = 7" FOR 100 LB RAIL
H = 7 1/2" FOR 115 LB RAIL
H = 8" FOR 136 LB RAIL



8'6" CROSS TIE

TIMBER CROSSING PANEL FOR
LOW DENSITY RAIL TRAFFIC ON 8'-6" TIES

MATERIAL & FABRICATION

- HARDWOOD PANELS TO BE TREATED MIXED HARDWOOD, FREE OF WANE.
- BRANDING: EACH CROSSING PANEL SHALL BE IDENTIFIED ON THE END WITH MANUFACTURER ID, MO/YR MANUFACTURED, WEIGHT RAIL.

TIMBER PANEL INSTALLATION

- BALLAST THROUGH CROSSING AREA SHALL BE CLEAN CRUSHED ROCK BALLAST, 12" BELOW BOTTOM OF TIES. TOP OF BALLAST TO BE 2" BELOW TOP OF TIES. TIES THROUGH CROSSING SHALL BE NO. 5 TREATED HARDWOOD 19 3/16" ON CENTERS, IN GOOD CONDITION.
- IF REQUIRED BY GDLN, PERFORATED DRAINAGE PIPE RECOMMENDED FOR PROPER DRAINAGE.
- ENDS OF CROSSING PANELS SHOULD BE CENTERED ON TIE.
- THERMITE WELDS OR RAIL JOINTS SHOULD BE LOCATED OUTSIDE THE CROSSING. WHEREVER POSSIBLE, WELDED RAIL SHOULD BE RELAYED THROUGH CROSSING (MINIMUM RAIL WEIGHT, 112 LB.) BEFORE NEW TIES AND CROSSING PANELS ARE INSTALLED.
- PANELS SHALL BE HANDLED CAREFULLY, SLATTED AND STACKED ON LEVEL GROUND TO PREVENT WORKPAGE.
- 5/8" X 12" TWIN LEAD TIMBER SPIKES FURNISHED SEPARATELY.
- 3/8" DIA. HOLES SHOULD BE BORED IN FIELD, TO PATTERN SHOWN.
- GAGE SIDE AND FIELD SIDE PANELS ARE INTERCHANGEABLE.
- ALL CROSSING PANELS HAVE CLEARANCE FOR PANDROL PLATES AND CLIPS.

REVISIONS			
BY:	DATE:	DESCRIPTION:	
DESIGNED BY: GEW			
DRAWN BY: GAU			



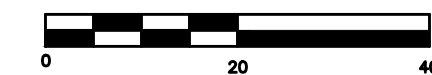
THE METROPOLITAN SEWER DISTRICT
OF GREATER CINCINNATI
HAMILTON COUNTY, OHIO



PROPOSED PROJECT NO. 10370025

FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM
THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG
COACHLITE

SCALE HORIZ. 1"=30'



RAILROAD ESMT

PLAN AND PROFILE

ACC. NO. 78261

SHEET 34 OF 34

SS# 5933

ACAD DRAWING NAME: KENWOOD HILLS BASEMAP_AS BUILT.DWG

FOR EASEMENT DRAWING SEE ACC. NO. 78262