

THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY

PROPOSED PROJECT NO. 10370025  
KENWOOD HILLS  
LOCAL SEWER

STANDARDS:  
(SEE MSDGC STANDARD DRAWINGS)

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.

**BENCH MARKS:**

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

**DATUM:**

HORIZONTAL: NAD 83  
VERTICAL: NGVD 29

**DESIGN EXCEPTION**

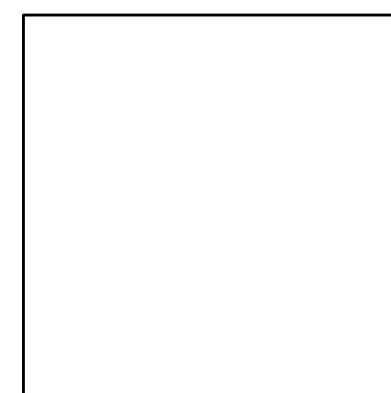
SLOPE OF 0.40% IS EXCEPTION TO THE MSDGC STANDARD OF 0.70%  
0.40% MEETS THE MINIMUM SLOPE FOR THE 10 STATE STANDARDS.

DISTANCE BETWEEN MANHOLES IS MEASURED FROM CENTER TO CENTER.

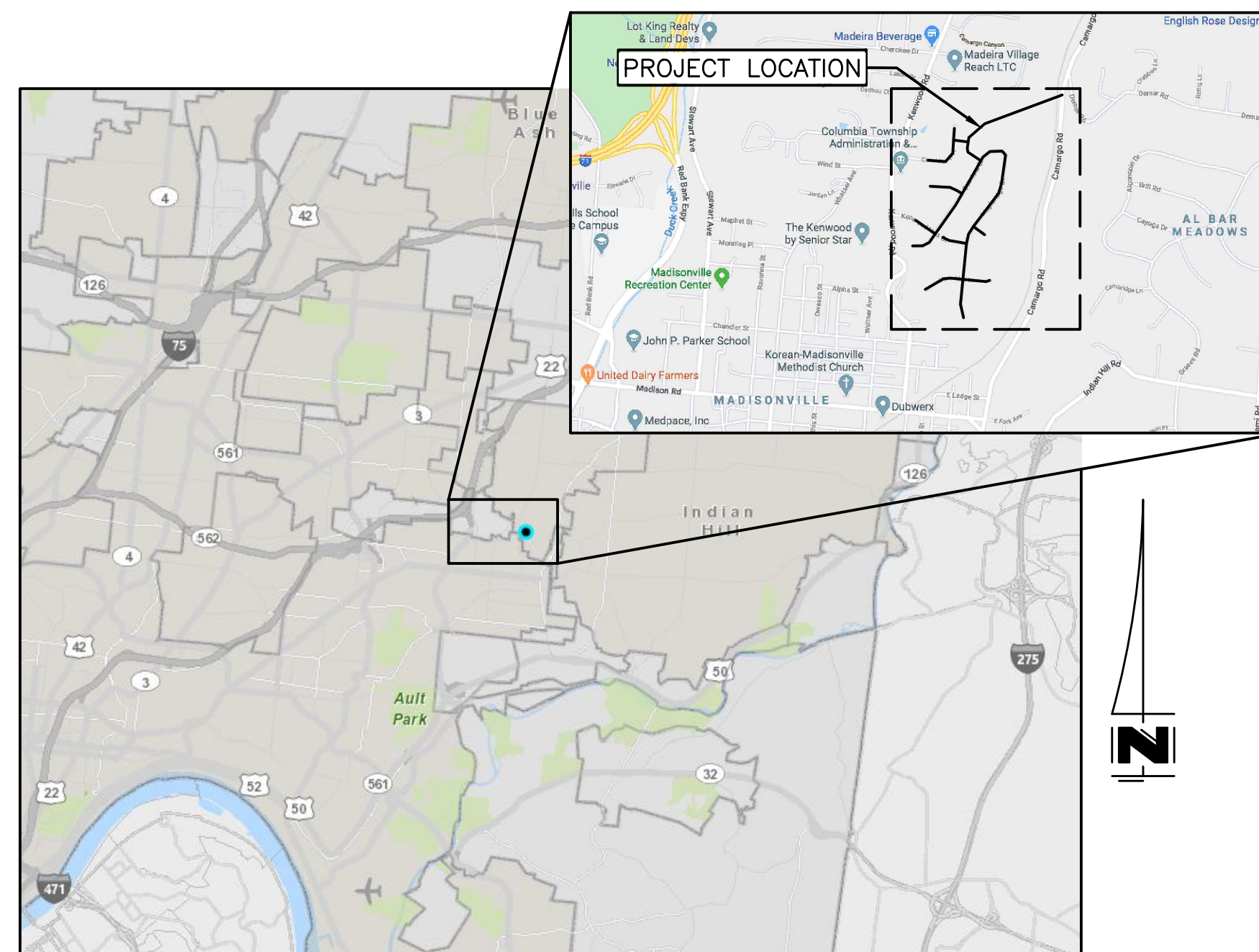
RECEIVING MANHOLES SHALL CONFORM TO STANDARD DRAWING ACCESSION # 49063  
LOW PRESSURE FORCE MAIN TYPICAL RECEIVING MANHOLE EXCEPT THE MANHOLE SHALL BE CONSTRUCTED OF POLYMER CONCRETE (POLYCRETE, OR EQUAL) OR RECEIVE A CURED-IN-PLACE LINING.

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.

DESIGNED BY: GEW  
DRAWN BY: GAU



ENGINEERS SEAL



VICINITY MAP  
NO SCALE  
100% DESIGN SUBMITTAL  
SUBJECT TO REVISION

DESCRIPTION

ACCESSION NO.

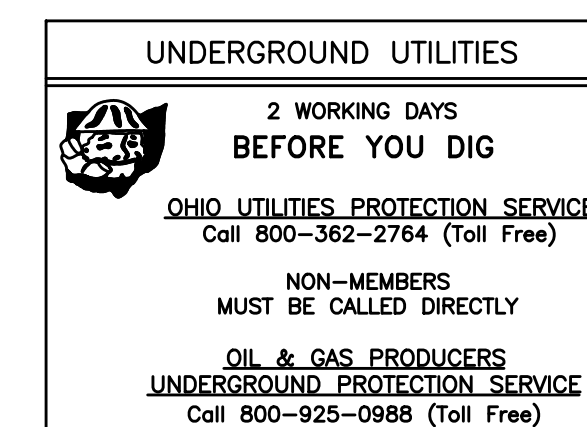
STANDARD DROP MANHOLE	49003
TYPICAL INVERTS	49004
STANDARD CASTINGS FOR MANHOLES	49005
STANDARD CONCRETE COLLARS ON CONDUITS	49031
CONTROL DIMENSIONS FOR TYPICAL TRENCHES FOR CONDUITS	49032
TYPICAL BUILDING SEWERS AND STACKS	49033
STANDARD, (TYPE "S") MANHOLE	49037
STANDARD CONCRETE CRADLE AND ENCASEMENT	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

CONTENTS:

SHEET NO.

DESCRIPTION

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



SUBMITTED: \_\_\_\_\_  
CHIEF ENGINEER

APPROVED: \_\_\_\_\_  
DIRECTOR OF SEWERS

DATE: \_\_\_\_\_

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

RECEIVING MANHOLES		
MANHOLE ID.	NORTHING	EASTING
MH #23	430165.70	1434794.48
MH #35	431506.74	1434812.25
MH #37	430897.10	1434376.14
MH #50	432693.03	1435462.43

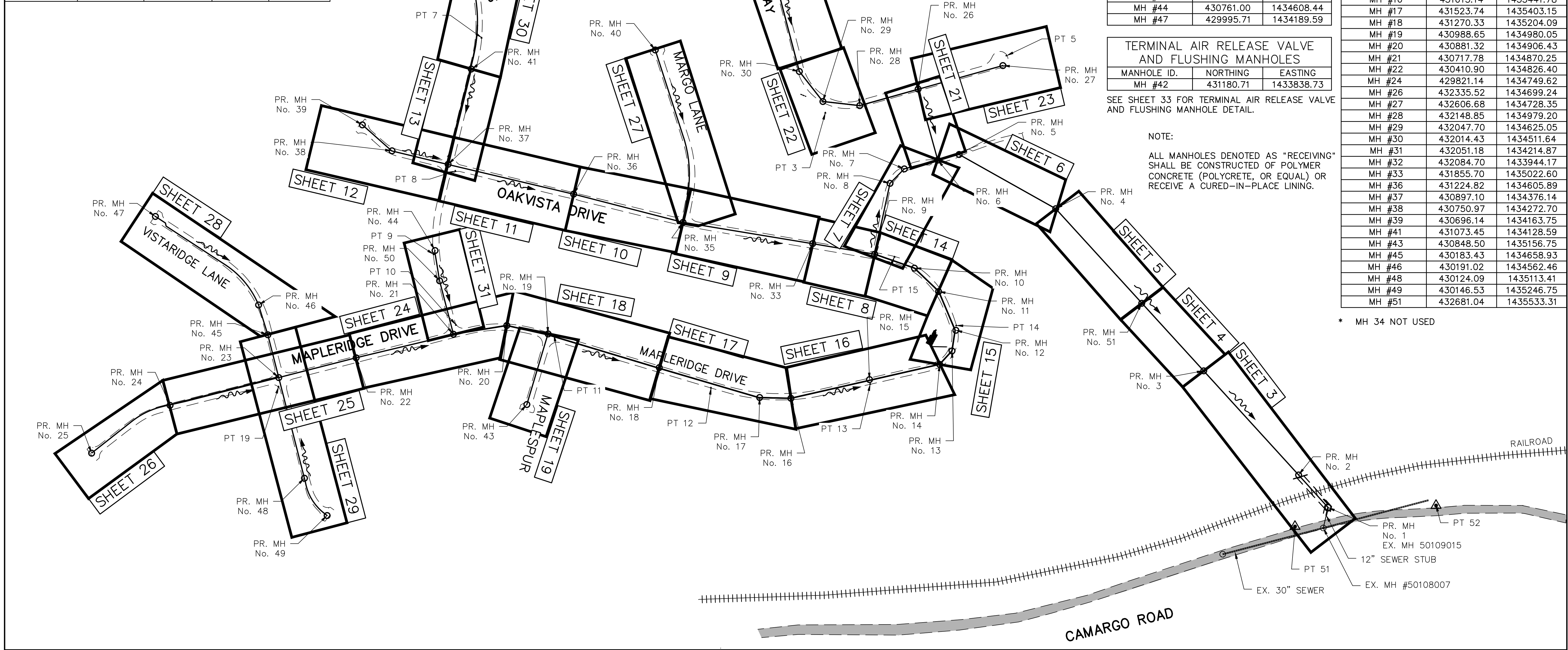
MANHOLES		
MANHOLE ID.	NORTHING	EASTING
MH #1	433035.08	1436372.22
MH #2	432987.60	1436244.99
MH #3	432834.04	1435836.75
MH #4	432594.39	1435200.61
MH #5	432378.65	1434933.82
MH #6	432310.92	1434925.46
MH #7	432204.60	1434912.33
MH #8	432146.96	1434937.44
MH #9	432021.50	1435123.60
MH #10	432119.77	1435209.24
MH #11	432163.03	1435303.88
MH #12	432165.75	1435434.46
MH #13	432132.94	1435490.47
MH #14	432081.95	1435514.87
MH #15	431862.34	1435480.62
MH #16	431615.14	1435441.78
MH #17	431523.74	1435403.15
MH #18	431270.33	1435204.09
MH #19	430988.65	1434980.05
MH #20	430881.32	1434906.43
MH #21	430717.78	1434870.25
MH #22	430410.90	1434826.40
MH #24	429821.14	1434749.62
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	432014.43	1434511.64
MH #31	432051.18	1434214.87
MH #32	432084.70	1433944.17
MH #33	431855.70	1435022.60
MH #36	431224.82	1434605.89
MH #37	430897.10	1434376.14
MH #38	430750.97	1434272.70
MH #39	430696.14	1434163.75
MH #41	431073.45	1434128.59
MH #43	430848.50	1435156.75
MH #45	430183.43	1434658.93
MH #46	430191.02	1434562.46
MH #48	430124.09	1435113.41
MH #49	430146.53	1435246.75
MH #51	432681.04	1435533.31

TERMINAL FLUSHING MANHOLES		
MANHOLE ID.	NORTHING	EASTING
MH #25	429540.65	1434797.08
MH #40	431624.59	1434284.45
MH #44	430761.00	1434608.44
MH #47	429995.71	1434189.59

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.



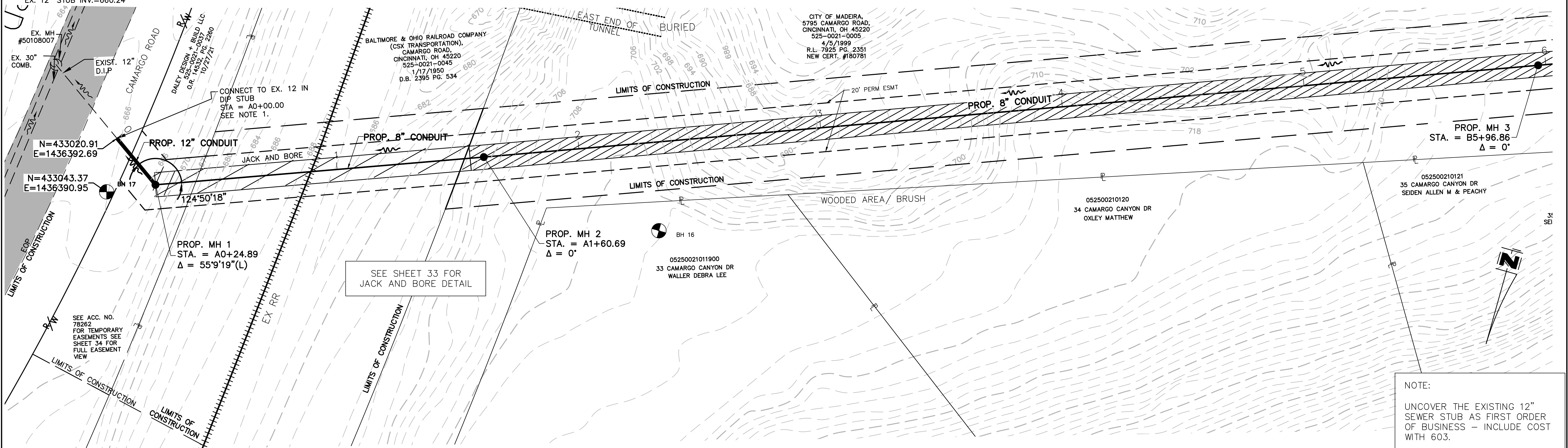
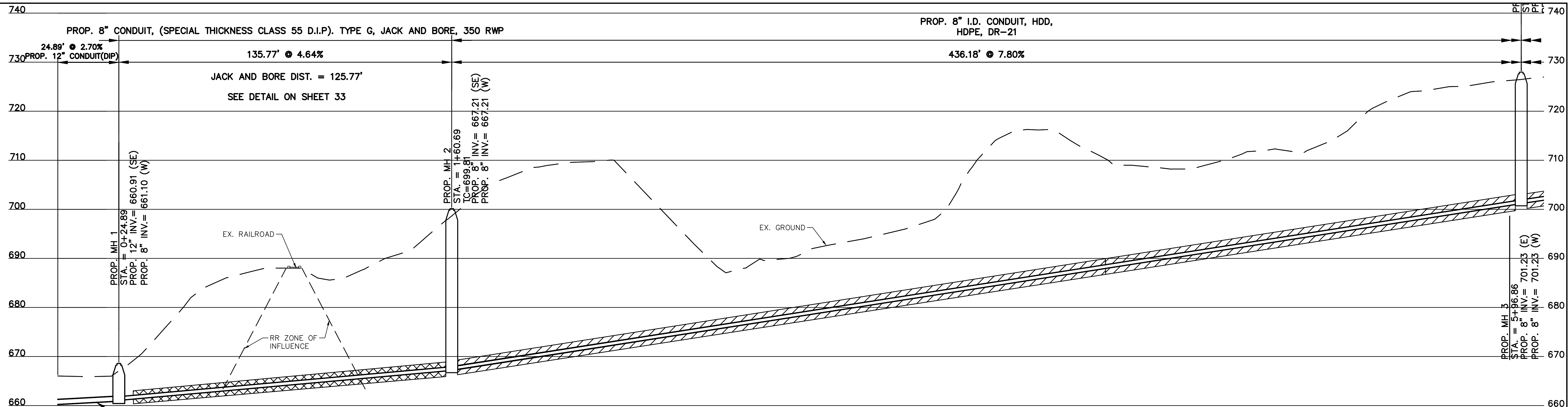
REVISIONS			
BY:	DATE:	DESCRIPTION:	

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'

<b>SHEET INDEX</b>
<b>SHEET INDEX</b>

PATH: N:\JOBS\2018\18026 - KENWOOD HILLS LOCAL SEWER WATER\_WASTEWATER\600 CAD\SSA\BASE\KENWOOD\_HILLS BASEMAP.DWG  
 DATE: Sep 11, 2024 - 03:27 PM  
 PLOTTED BY: RUMMINS



NOTE:  
UNCOVER THE EXISTING 12" SEWER STUB AS FIRST ORDER OF BUSINESS - INCLUDE COST WITH 603.

PATH: N:\JOBS\2018\18026 - KENWOOD HILLS LOCAL SEWER WATER\_WASTEWATER\600 CAD\SSA\BASE\KENWOOD HILLS BASEMAP.DWG  
 DATE: Sep 11, 2024 - 03:28 PM  
 PLOTTED BY: RUMMINS

REVISIONS			
BY:	DATE:	REVISIONS	DESCRIPTION:

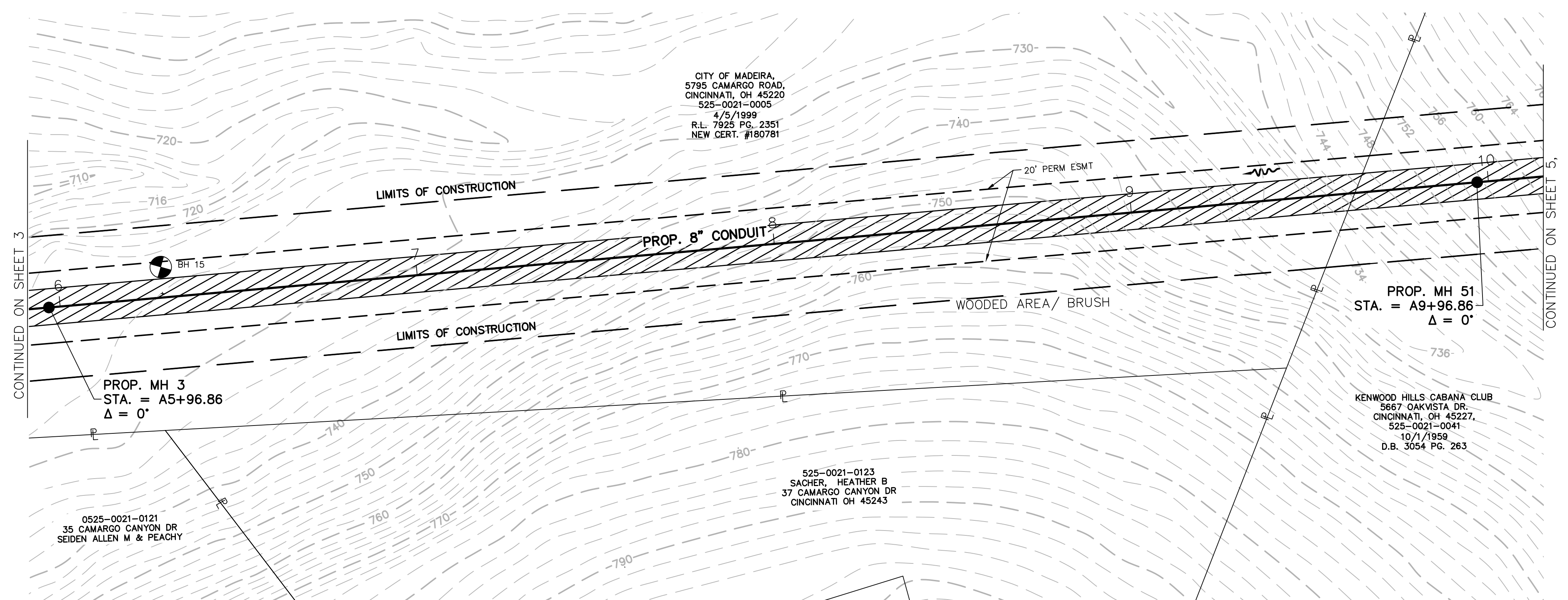
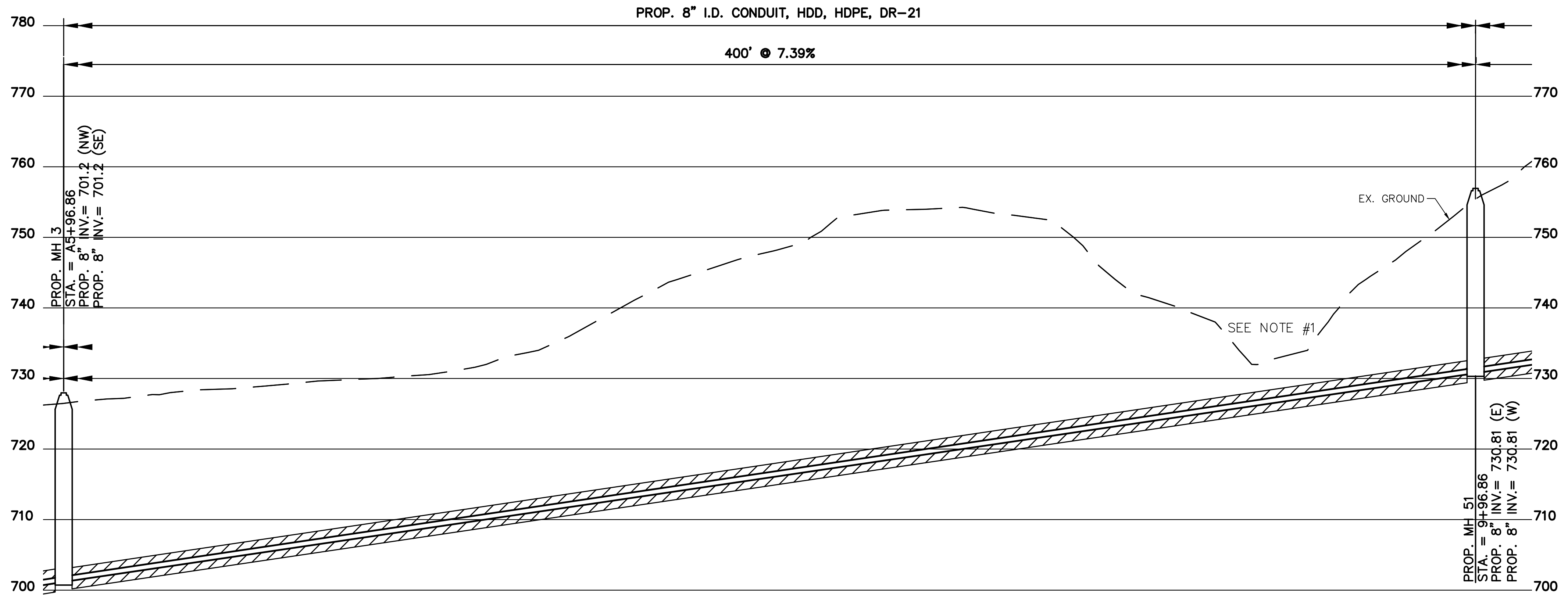


THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO

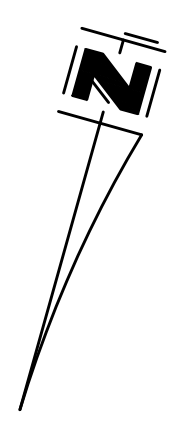
**PROPOSED PROJECT NO. 10370025**  
 FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM  
 THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG  
 COACHLITE

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

**MH 1 TO MH 3**  
**PLAN AND PROFILE**



NOTES  
 1. DIRECTIONAL DRILLING RISK OF FRAC-OUT IN THIS AREA. CONTRACTOR TO PROVIDE MITIGATION/MONITORING PLAN BEFORE DRILLING IS STARTED



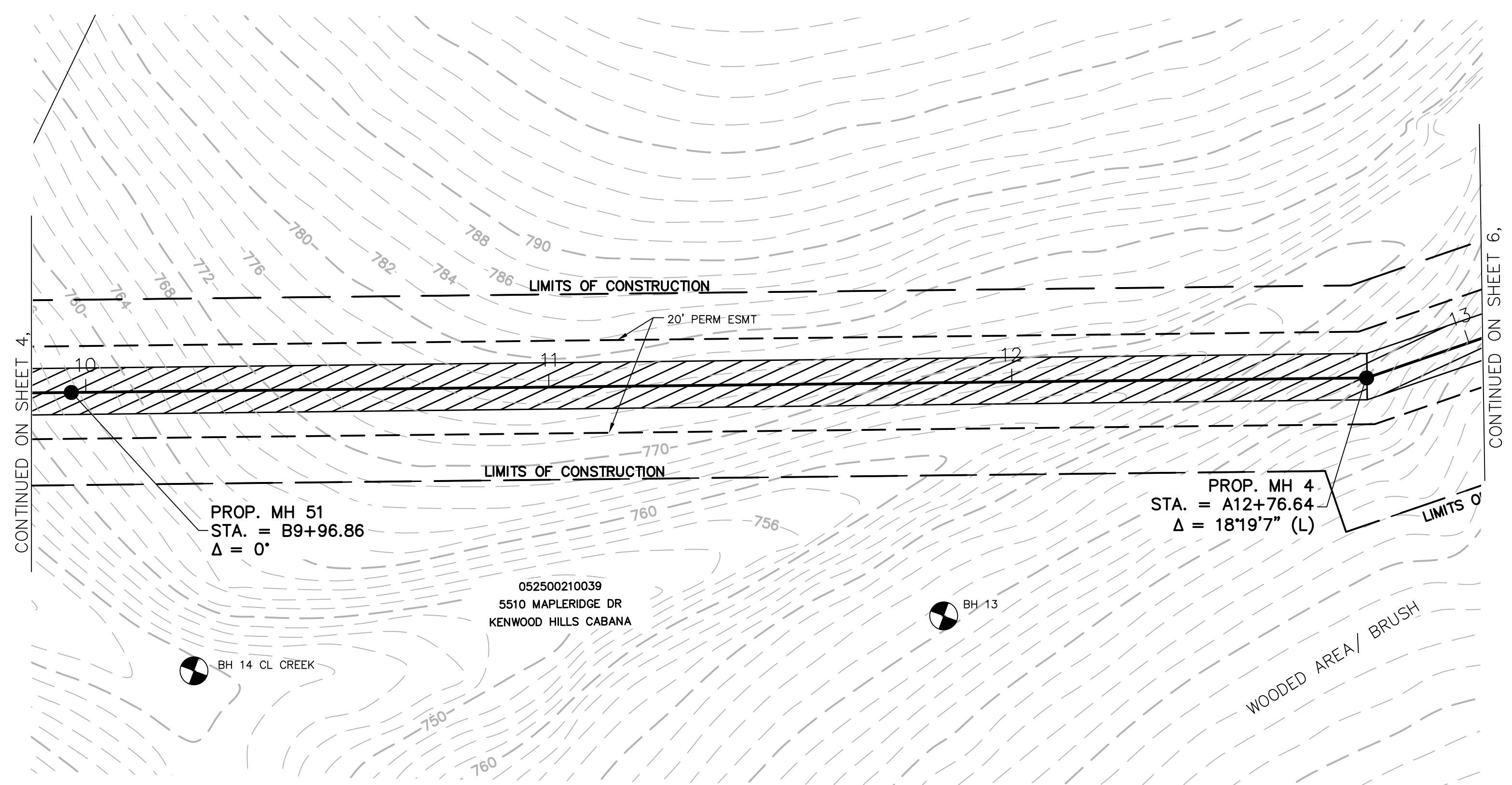
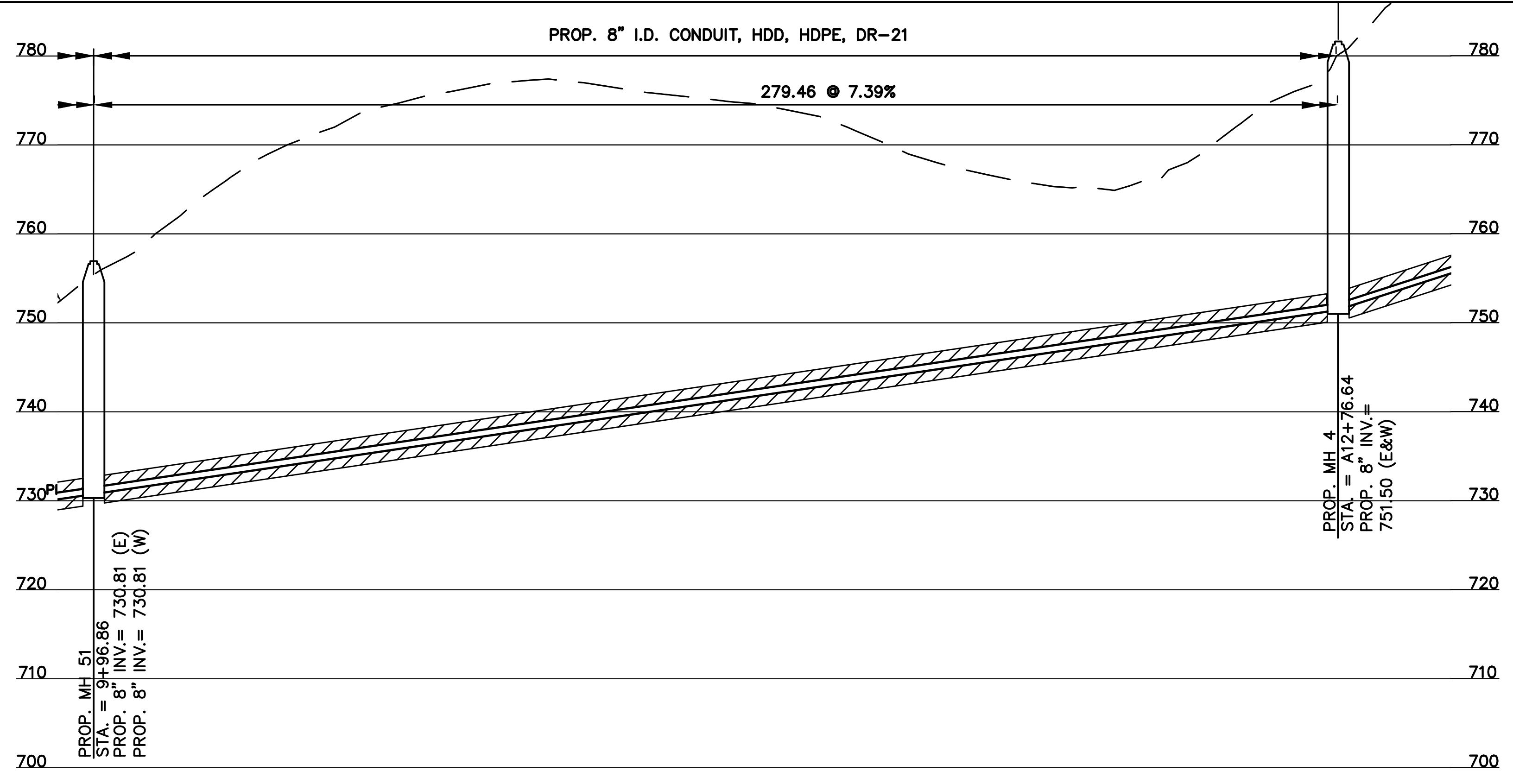
PATH: N:\JOBS\2018\18026 - KENWOOD HILLS LOCAL SEWER WATER\600 CAD\SSA\BASE\KENWOOD HILLS BASEMAP.DWG  
 DATE: Sep 11, 2024 - 03:28 PM  
 PLOTTED BY: RUMMINS

DESIGNED BY: GEW		REVISIONS	
BY:	DATE:	DESCRIPTION:	
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"=20'  
 VERT. 1"=10'

**MH 3 TO MH 51**  
**PLAN AND PROFILE**



PATH: N:\JOBS\2018\18926 - KENWOOD HILLS LOCAL SEWER WATER\600 CAD\SSA\BASE\KENWOOD HILLS BASEMAP.DWG  
 DATE: Sep 11, 2024 - 03:29 PM  
 PLOTTED BY: RUMMINS

DESIGNED BY: GEW		REVISIONS	
BY:	DATE:	NO.	DESCRIPTION:
DRAWN BY: GAU			



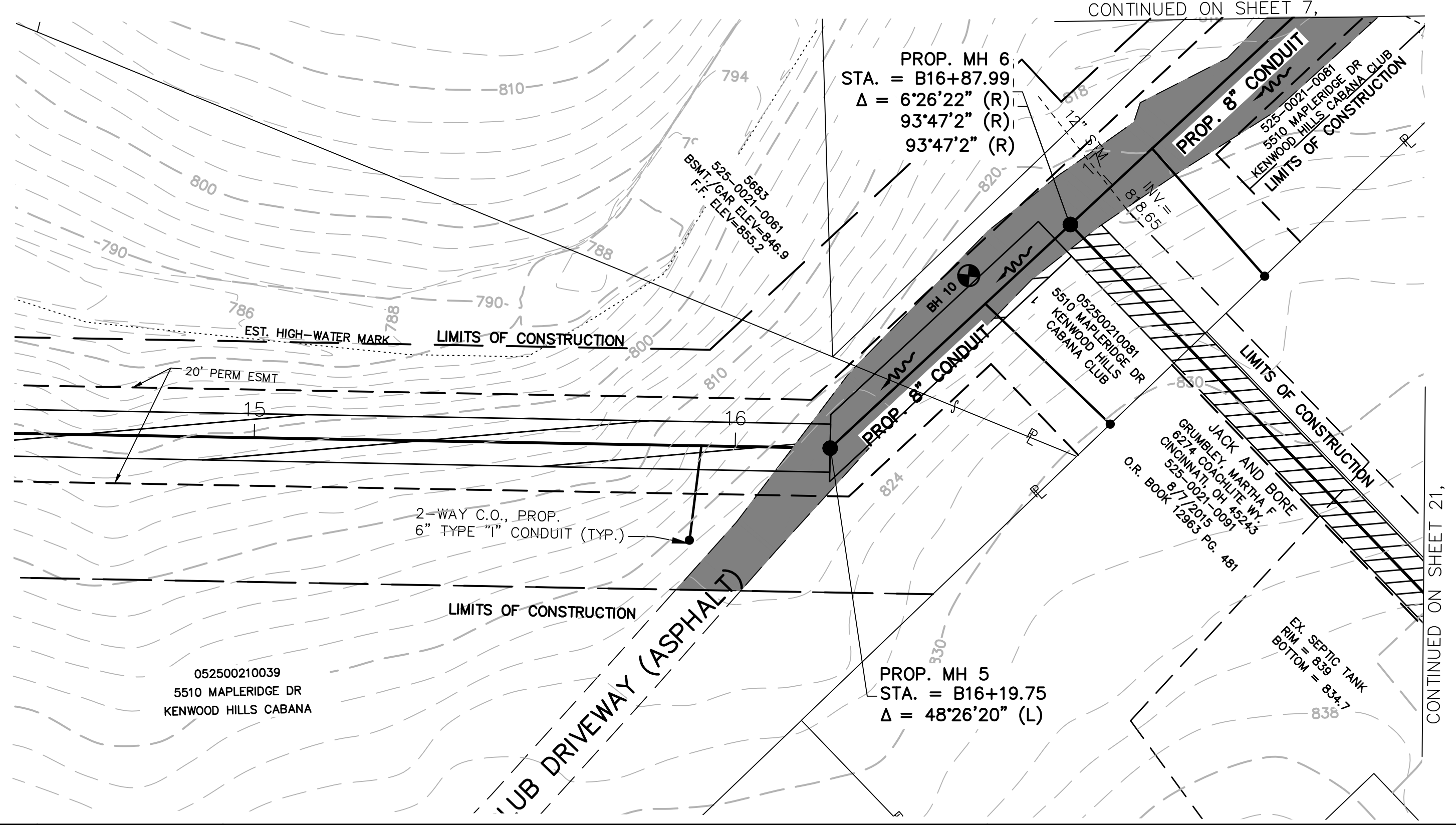
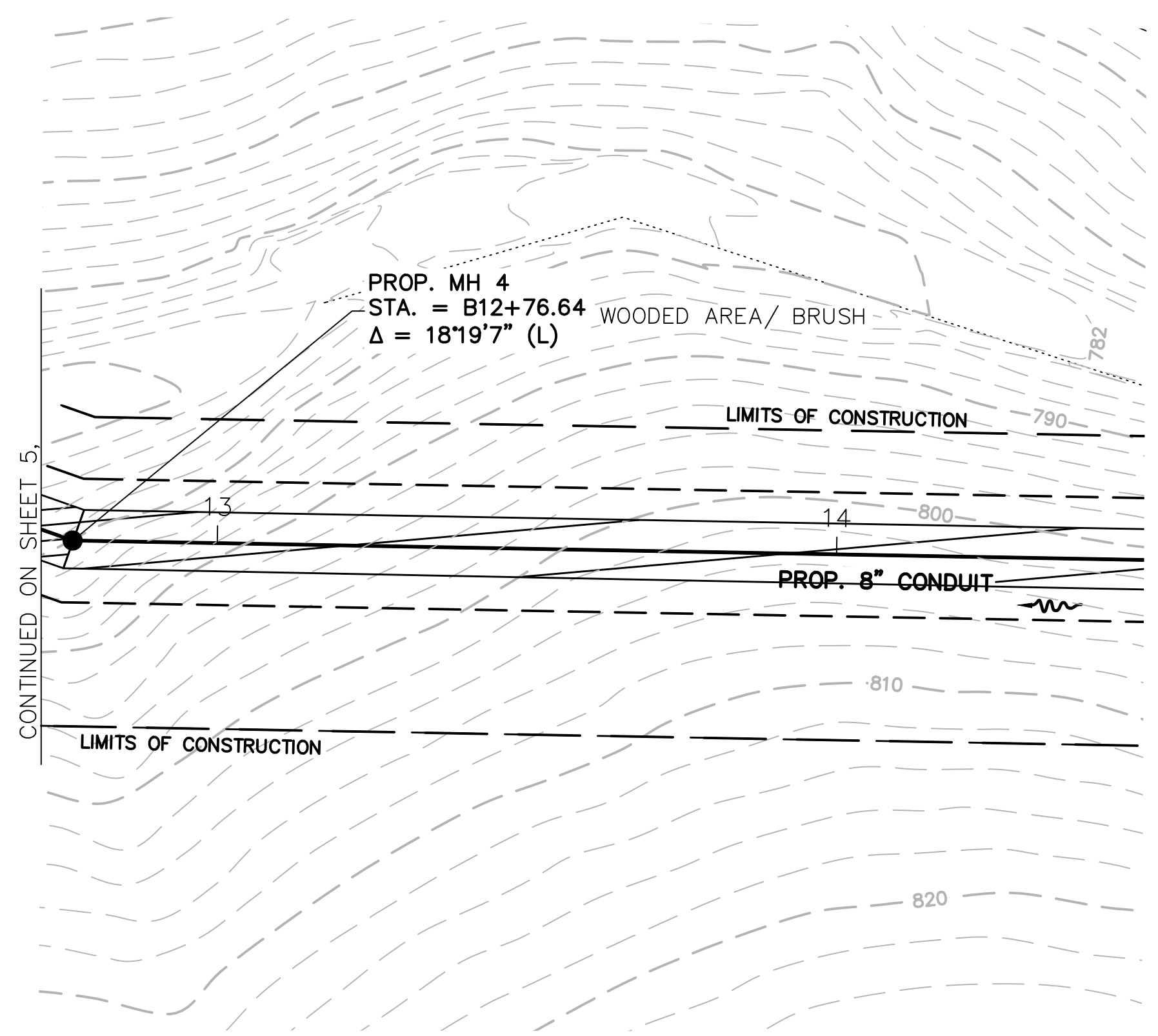
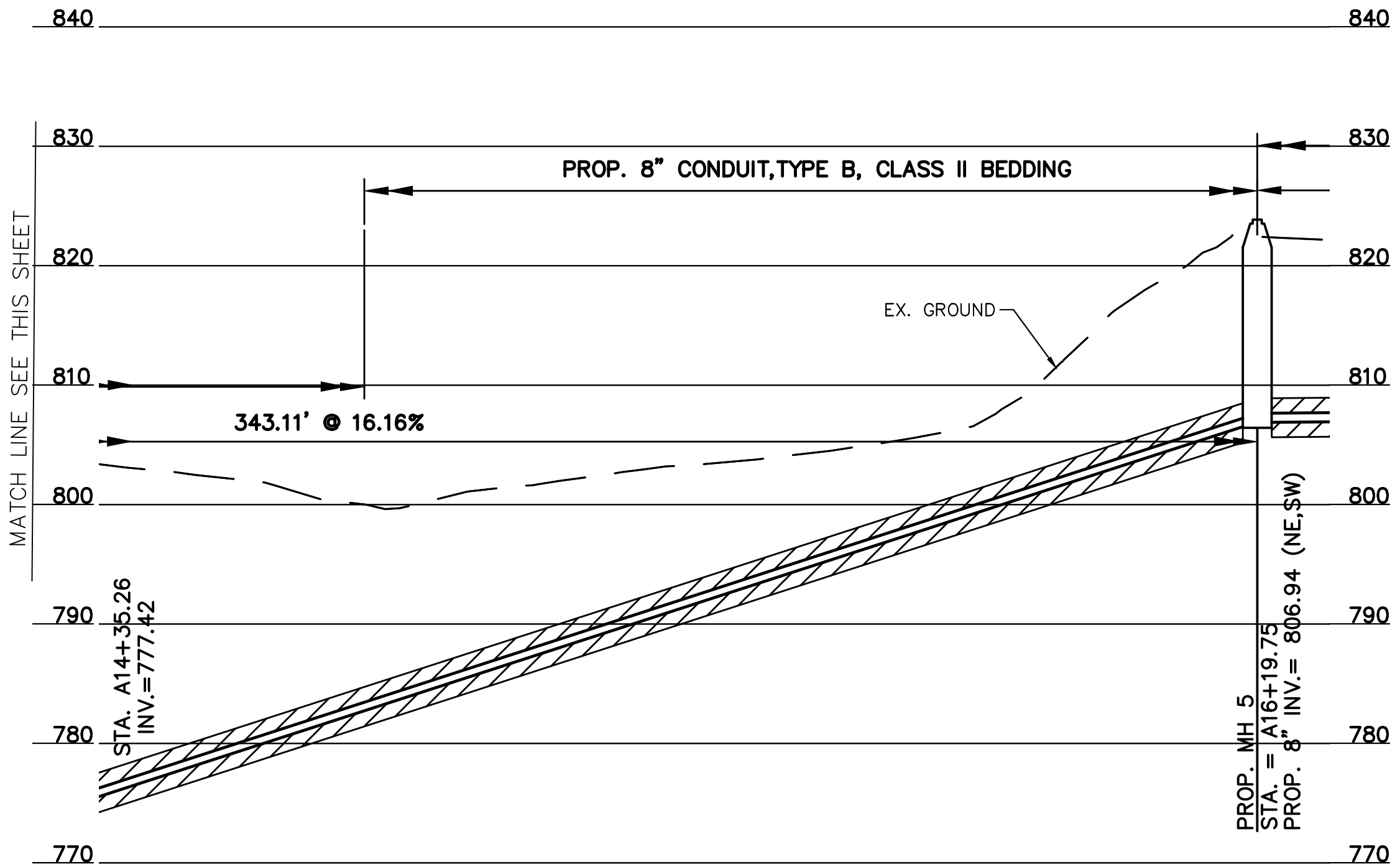
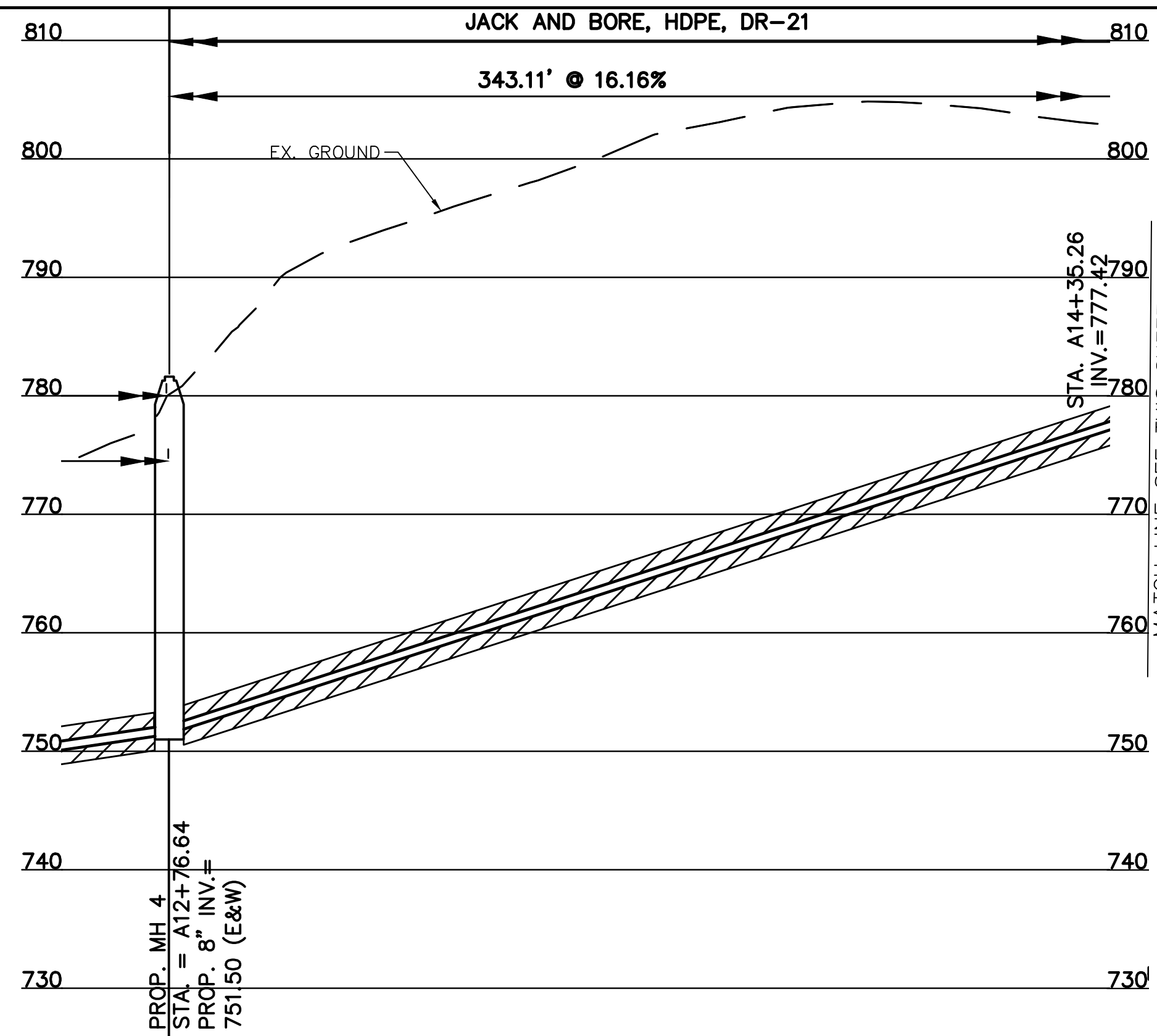
THE METROPOLITAN SEWER DISTRICT  
 OF GREATER CINCINNATI  
 HAMILTON COUNTY, OHIO



**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"=20'  
 VERT. 1"=10'

**CABANA CLUB DRIVE**  
**PLAN AND PROFILE**



PATH: N:\JOBS\2018\18026 - KENWOOD HILLS LOCAL SEWER WATER\600 CAD\SSA\BASE\KENWOOD HILLS BASEMAP.DWG  
 DATE: Sep 11, 2024 - 03:30 PM  
 PLOTTED BY: RUMMINS

DESIGNED BY: GEW		REVISIONS	
BY:	DATE:	NO.	DESCRIPTION:
DRAWN BY: GAU			



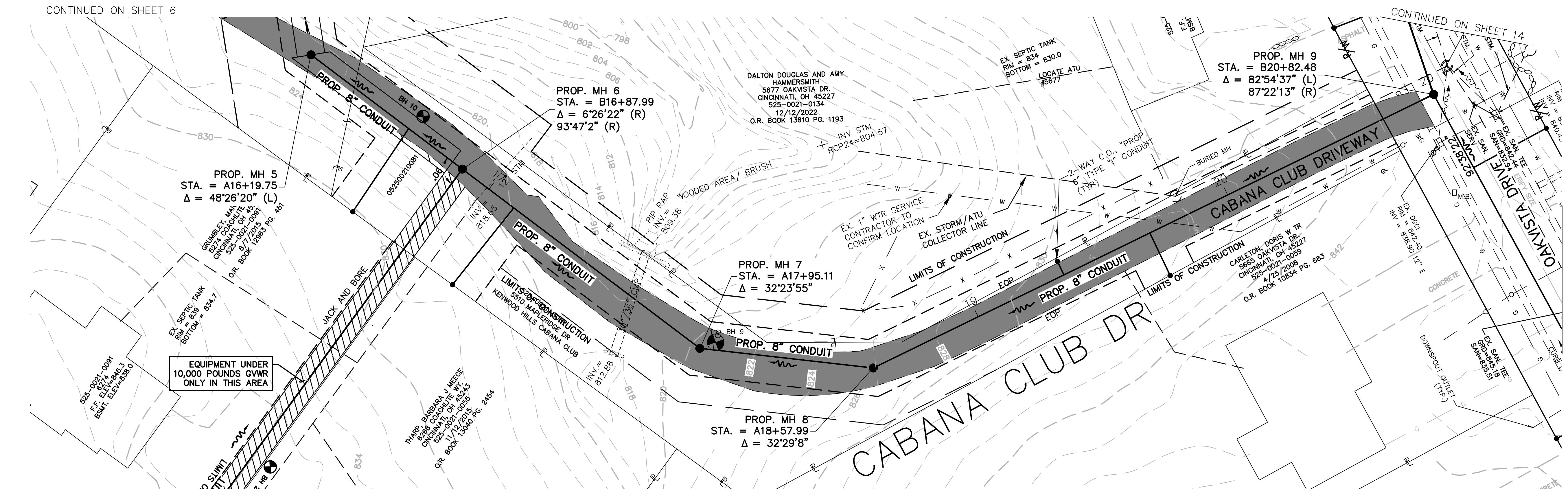
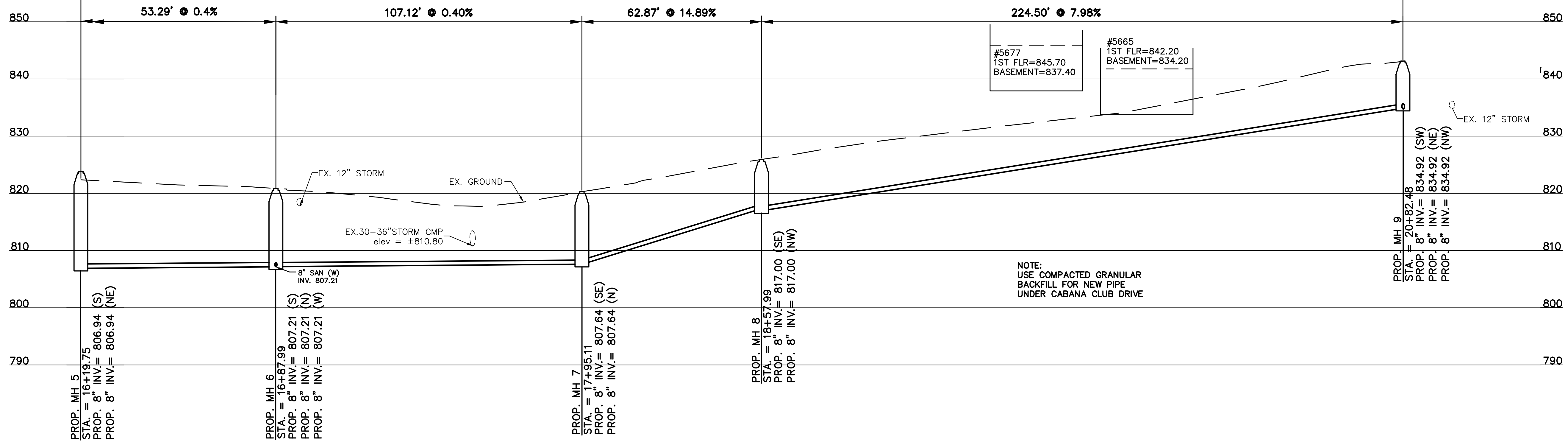
THE METROPOLITAN SEWER DISTRICT  
 OF GREATER CINCINNATI  
 HAMILTON COUNTY, OHIO



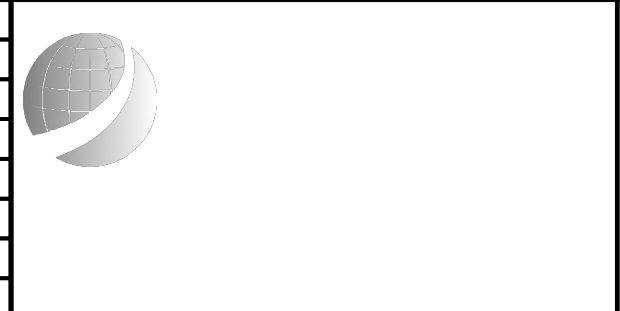
**PROPOSED PROJECT NO. 10370025**  
 FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM  
 THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG  
 COACHLITE  
 SCALE: HORIZ. 1"=20'  
 VERT. 1"=10'

**CABANA CLUB DRIVE**  
**PLAN AND PROFILE**

PROPOSED 8" CONDUIT, TYPE B, CLASS II BEDDING



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



THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO

M S D  
WASTEWATER  
ENGINEERING

PROPOSED PROJECT NO. 10370025

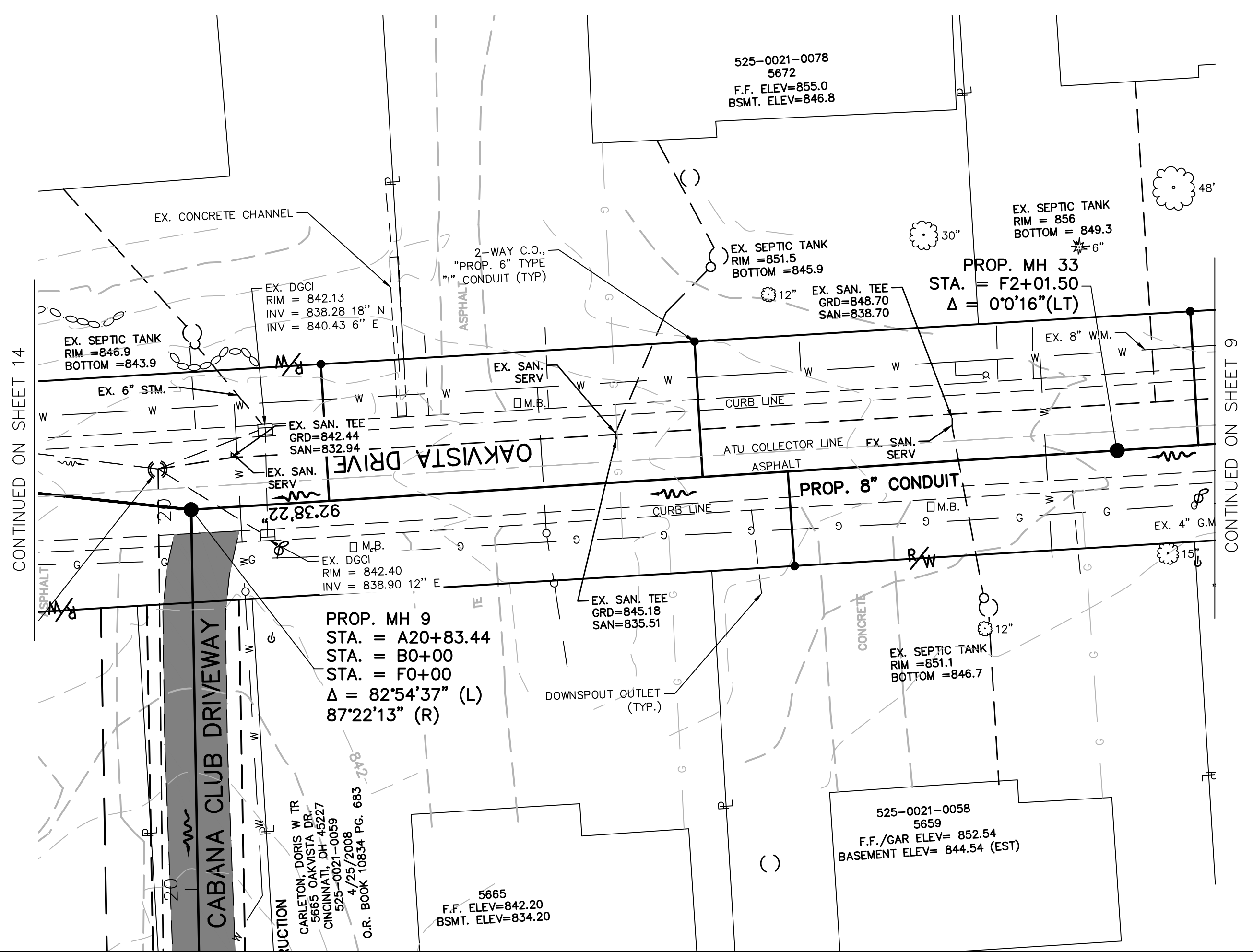
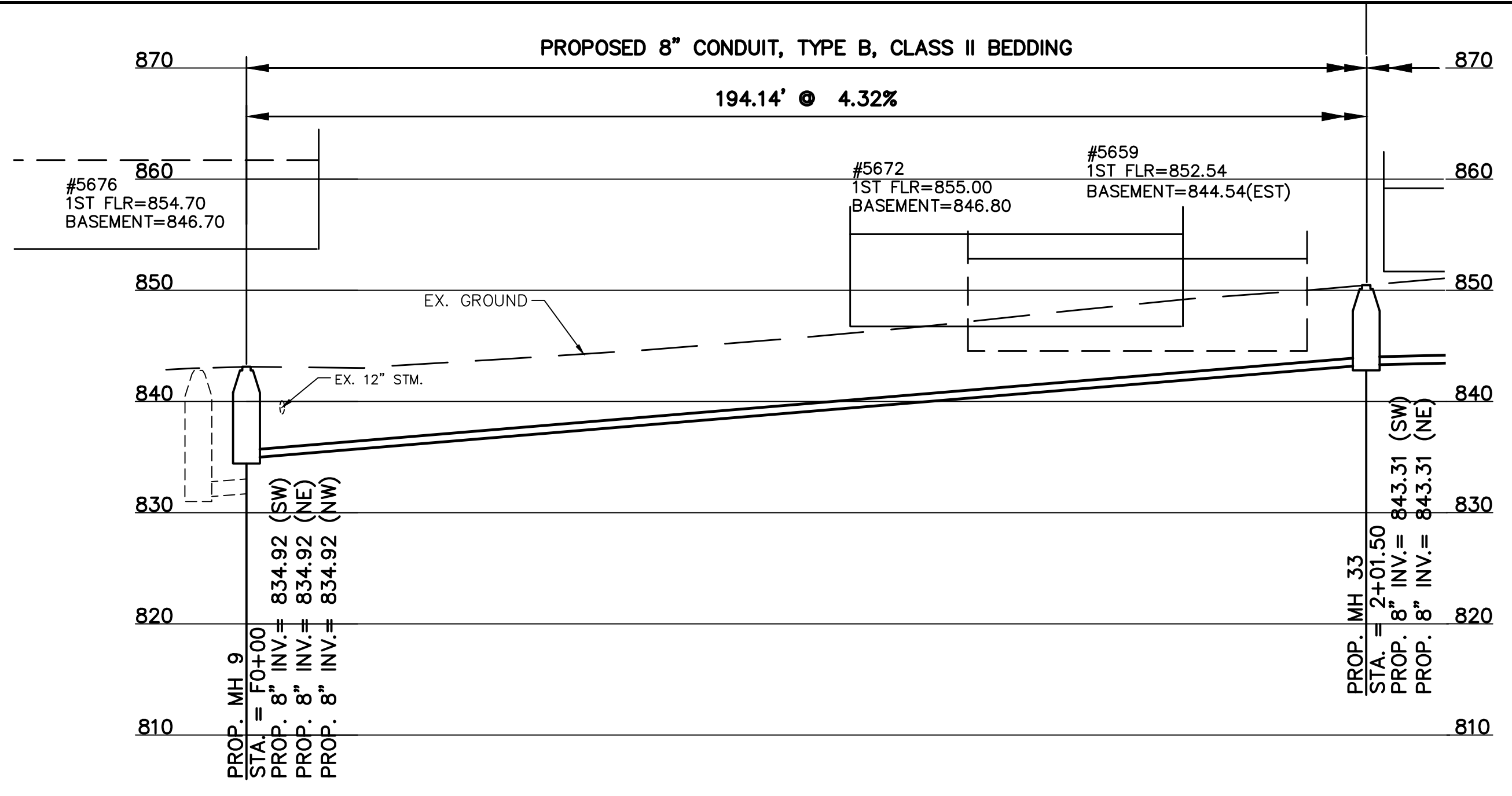
FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM  
THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG  
COACHLITE

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

CABANA CLUB DRIVE

PLAN AND PROFILE

PATH: N:\JOBS\2018\18926 - KENWOOD HILLS LOCAL SEWER WATER\600 CAD\SSA\BASE\KENWOOD HILLS BASEMAP.DWG  
 DATE: Sep 11, 2024 - 03:31 PM  
 PLOTTED BY: RUMMINS



NOTE:  
 OAKVISTA DRIVE REQUIRES  
 FULL WIDTH MILL AND PAVE.

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



THE METROPOLITAN SEWER DISTRICT  
 OF GREATER CINCINNATI  
 HAMILTON COUNTY, OHIO

M S D  
 WASTEWATER  
 ENGINEERING

**PROPOSED PROJECT NO. 10370025**

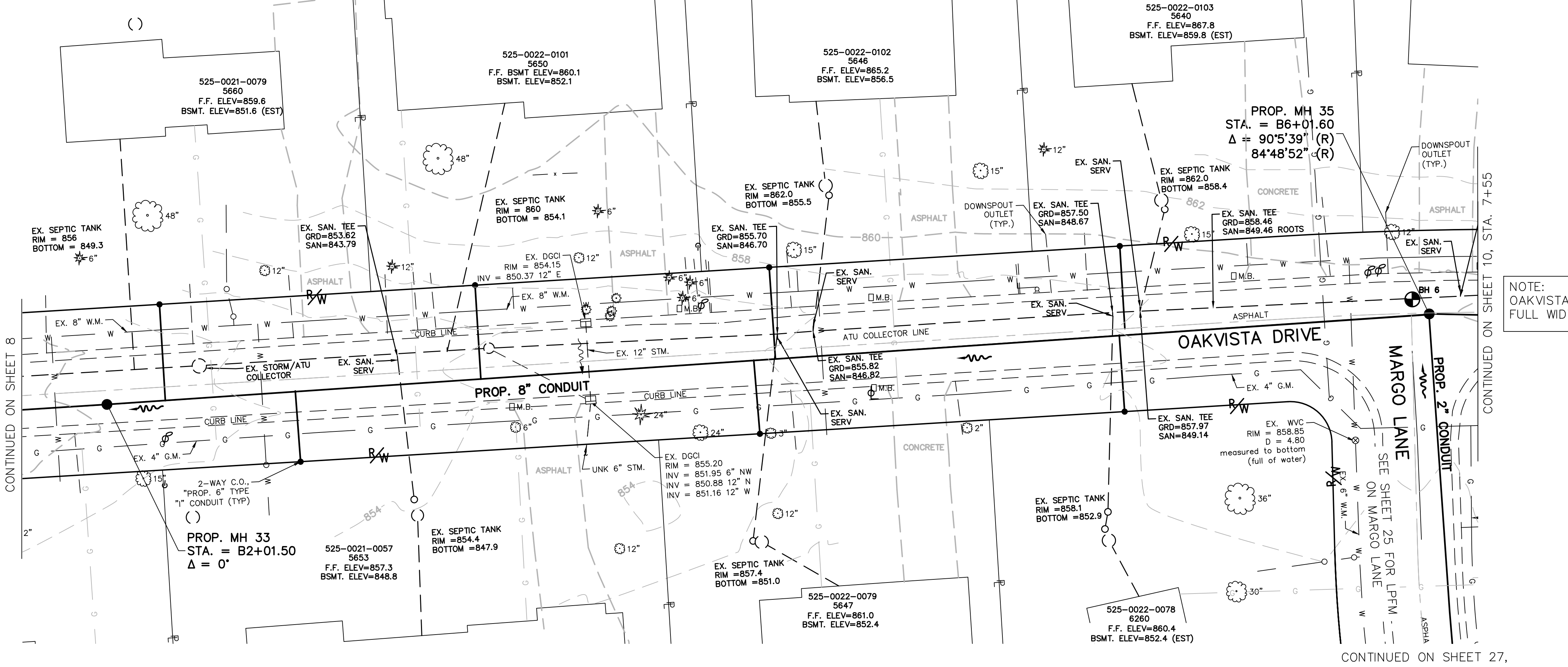
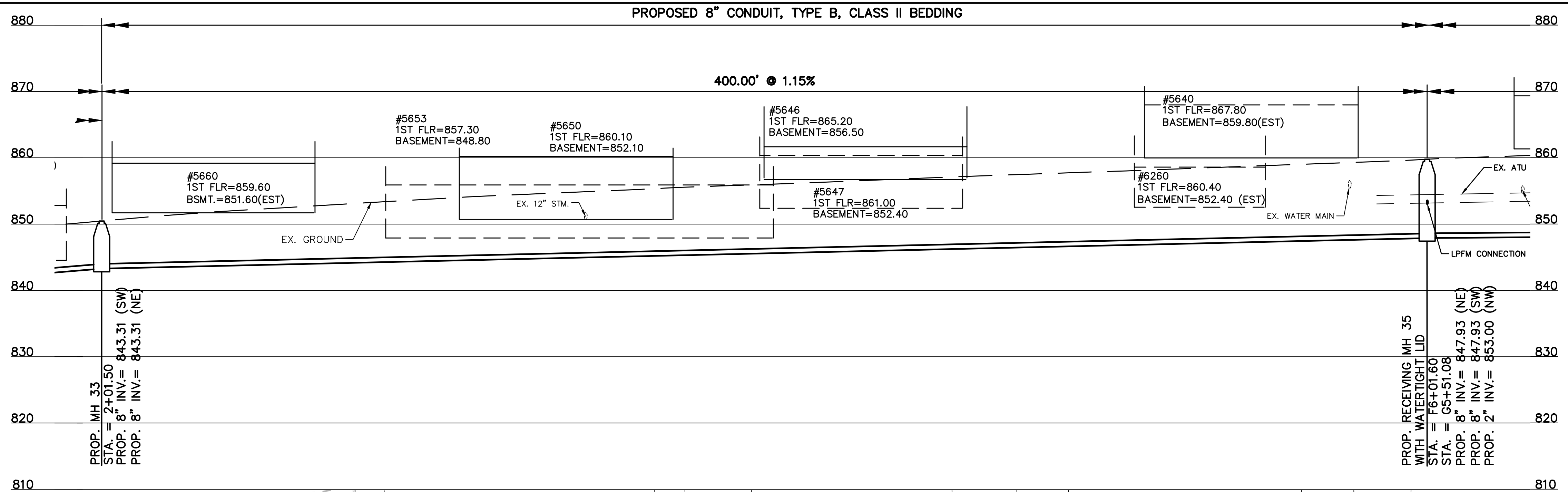
FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM  
 THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG  
 COACHLITE

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

**OAKVISTA DRIVE**

**PLAN AND PROFILE**





PATH: N:\085\2018\8926 - KENWOOD HILLS LOCAL SEWER WATER WASTEWATER\600 CAD\SSA\BASE\KENWOOD HILLS BASEMAP.DWG  
 DATE: Sep 11, 2024 - 03:31 PM  
 PLOTTED BY: RUMMINS

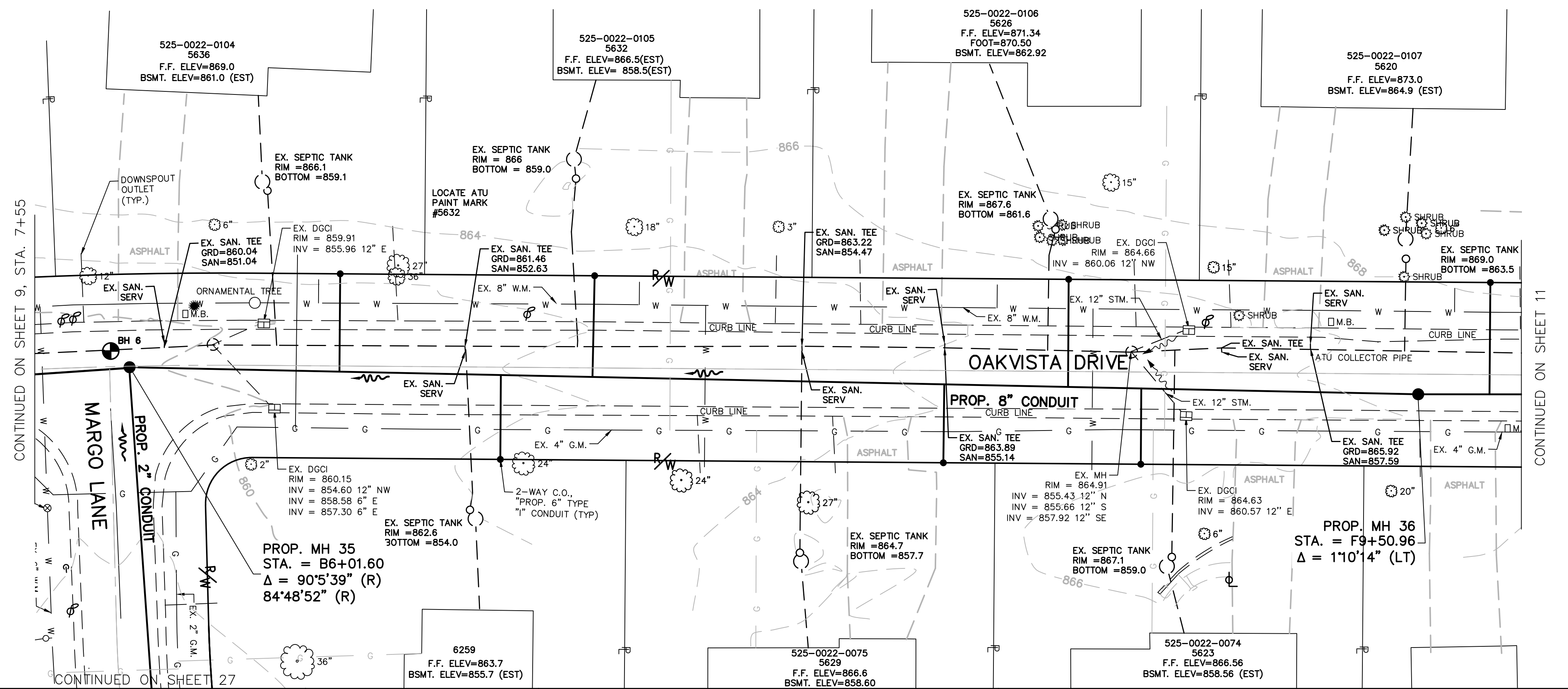
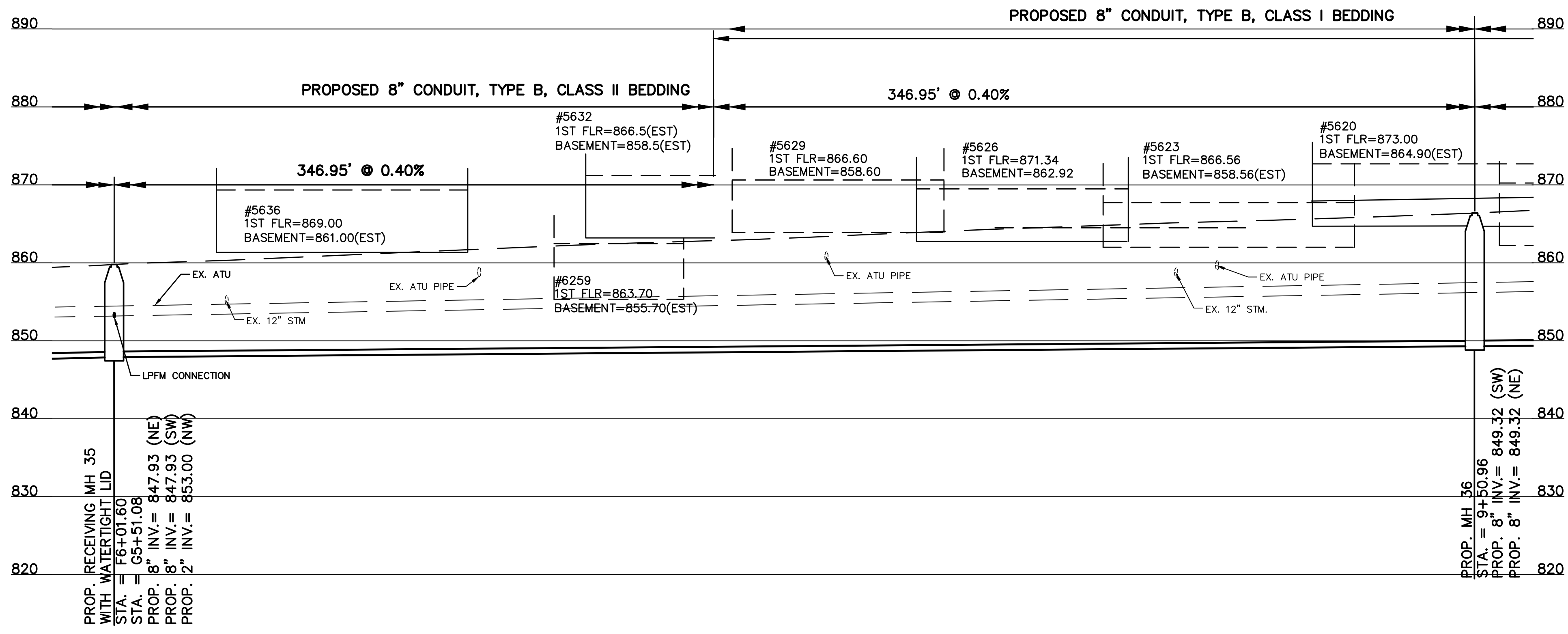
DESIGNED BY: GEW		REVISIONS	
BY:	DATE:	NO.	DESCRIPTION:
GAU			



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"=20'  
 VERT. 1"=10'

**OAKVISTA DRIVE**  
**PLAN AND PROFILE**  
 ACC. NO. 78237 SHEET 9 OF 34



PATH: N:\085\2018\8926 - KENWOOD HILLS LOCAL SEWER WATER WASTEWATER\600 CAD\SSA\BASE\KENWOOD HILLS BASEMAP.DWG  
 DATE: Sep 11, 2024 - 03:32 PM  
 PLOTTED BY: RUMMINS

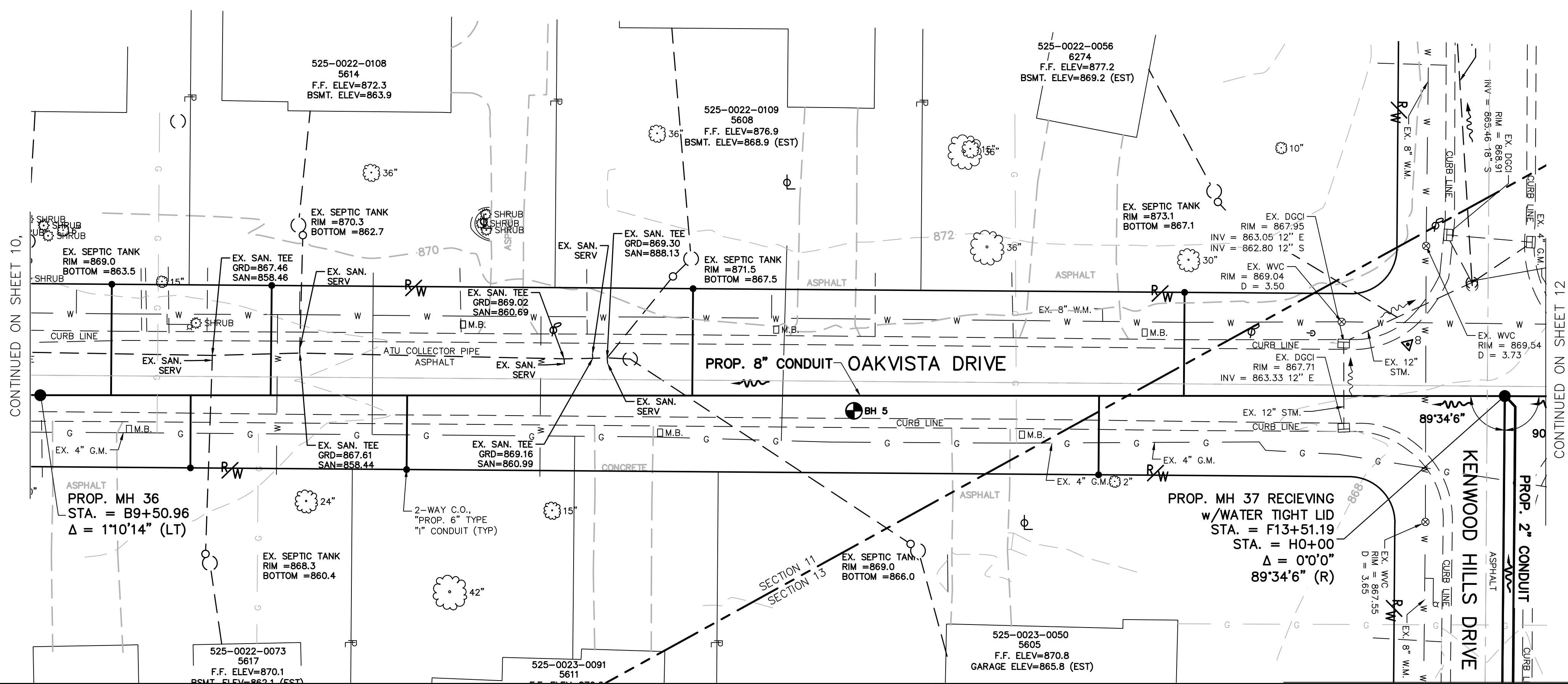
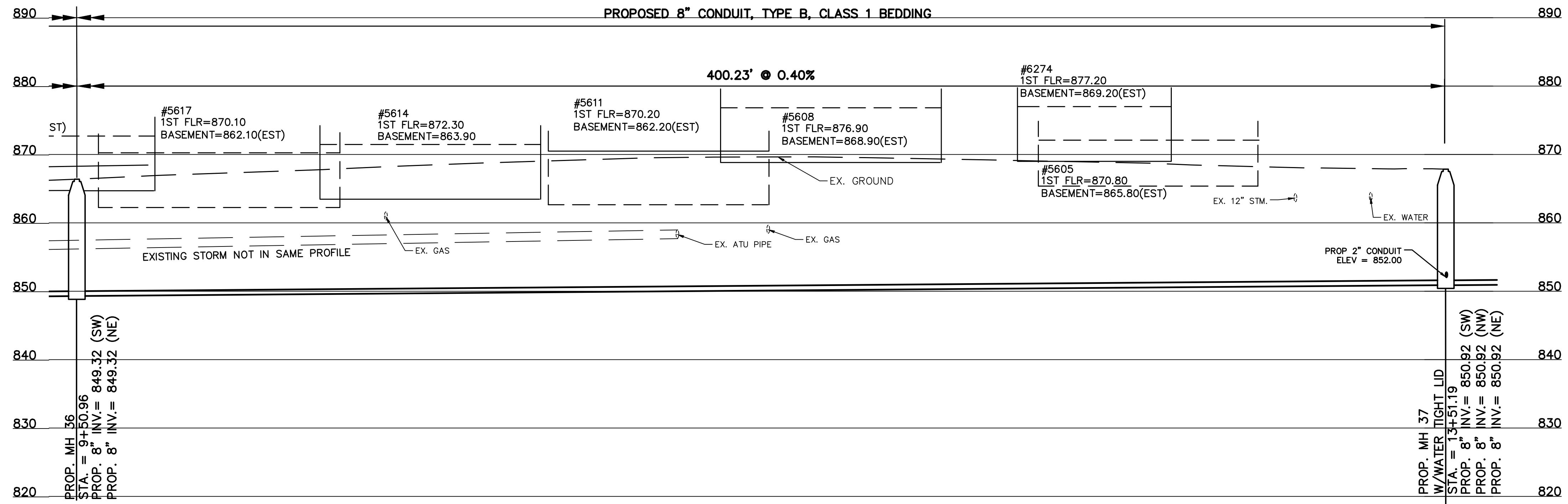
DESIGNED BY: GEW		REVISIONS	
BY:	DATE:	NO.	DESCRIPTION:



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'

**OAKVISTA DR AT MARGO LANE**  
**PLAN AND PROFILE**



NOTE: OAKVISTA DRIVE REQUIRES FULL WIDTH MILL AND PAVE.

PATH: N:\JOBS\2018\8926 - KENWOOD HILLS LOCAL SEWER WATER WASTEWATER\600 CAD\SSA\BASE\KENWOOD HILLS BASEMAP.DWG  
 DATE: Sep 11, 2024 - 03:33 PM  
 PLOTTED BY: RUMMINS

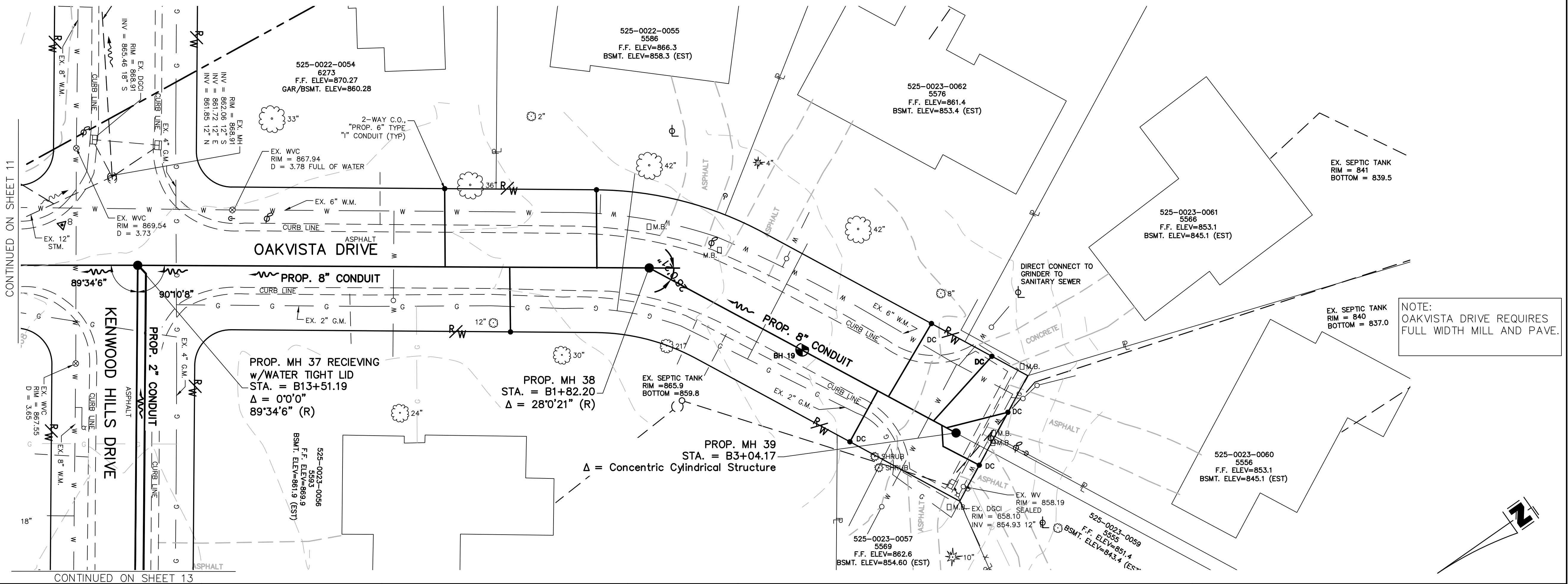
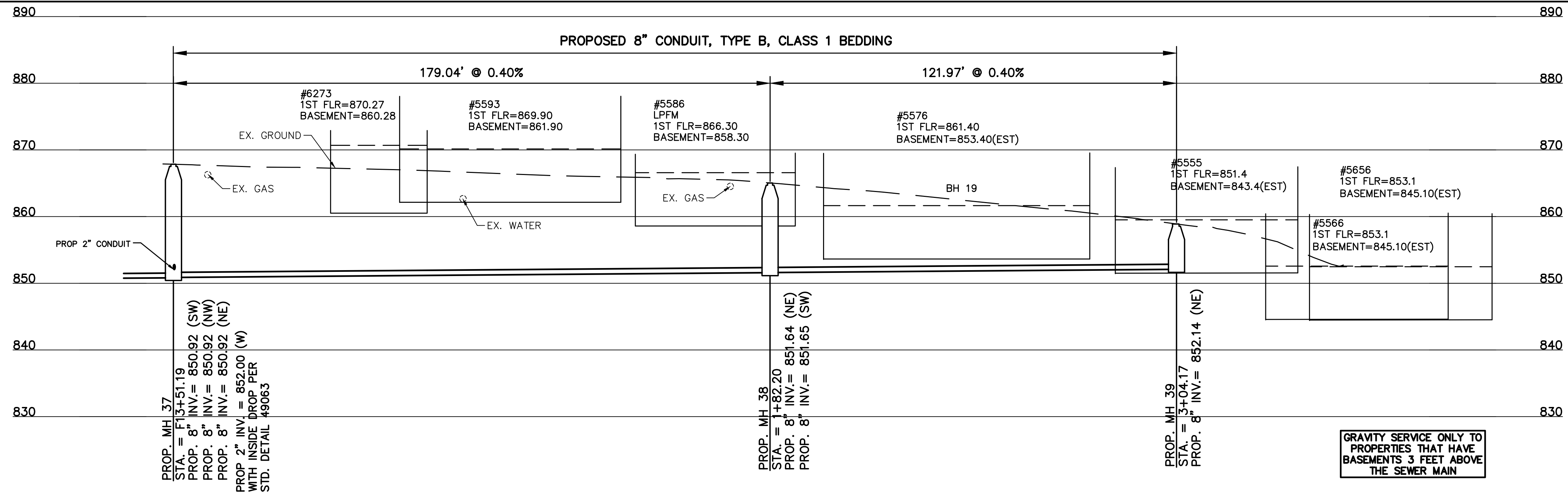
DESIGNED BY: GEW		REVISIONS	
BY:	DATE:	NO.	DESCRIPTION:
GAU			



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"=20'  
 VERT. 1"=10'

**OAKVISTA DR AT MARGO LANE**  
**PLAN AND PROFILE**



PATH: N:\JOBS\2018\18026 - KENWOOD HILLS LOCAL SEWER WATER WASTEWATER\600 CAD\SSA\BASE\KENWOOD HILLS BASEMAP.DWG  
 DATE: Sep 11, 2024 - 03:33 PM  
 PLOTTED BY: RUMMINS

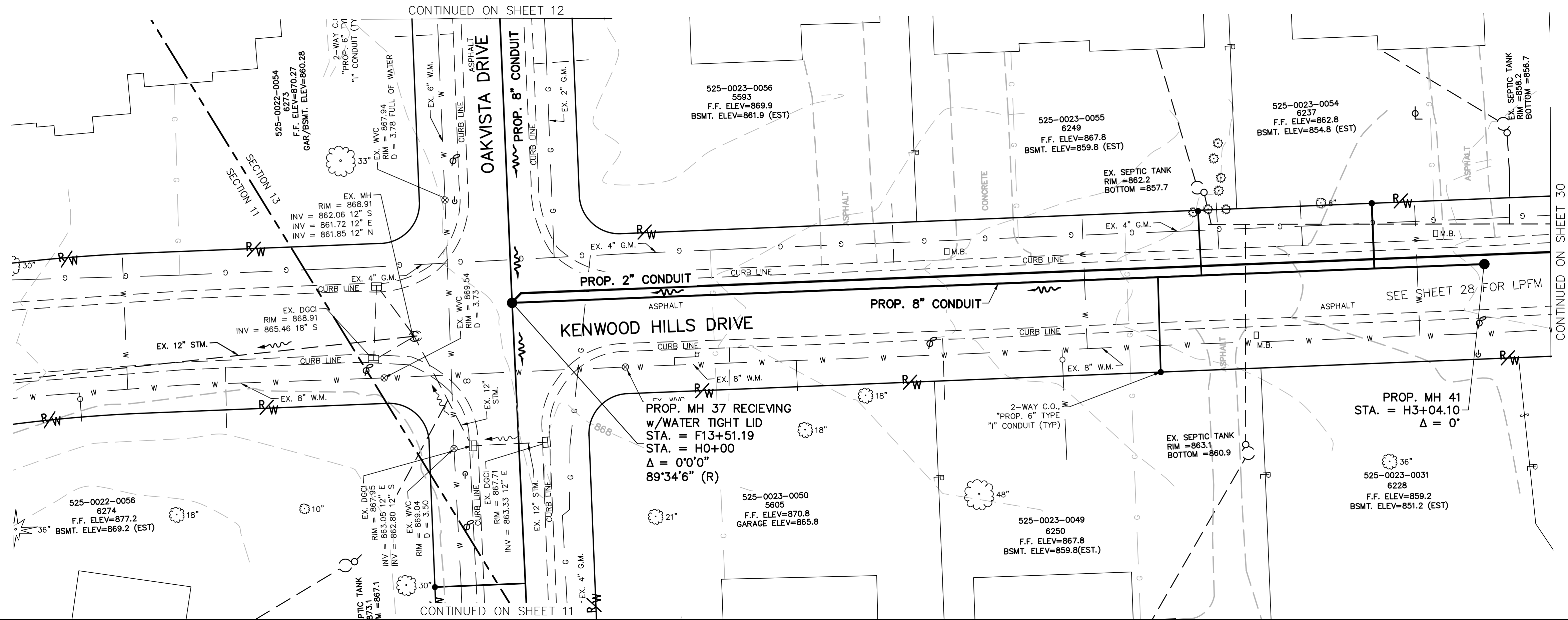
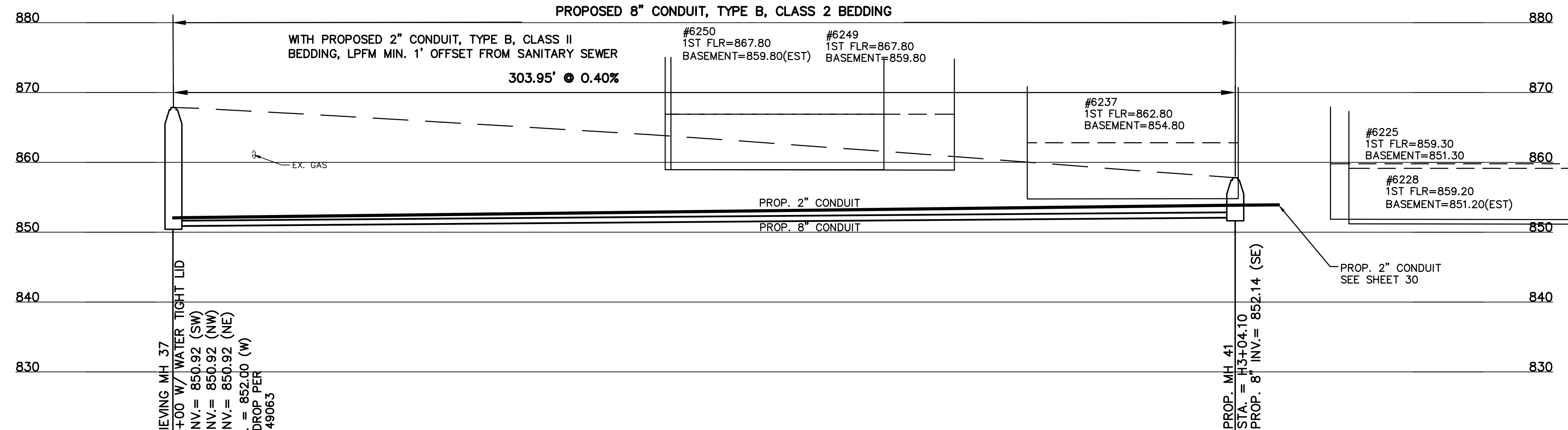
DESIGNED BY: GEW		REVISIONS	
BY:	DATE:	NO.	DESCRIPTION:
GAU			

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'

**OAKVISTA DRIVE**  
**PLAN AND PROFILE**



PATH: C:\Users\jchris\OneDrive - METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI\Documents\10370025\10370025.dwg  
 DATE: Sep 11, 2024 - 03:33 PM  
 PLOTTED BY: RUMMINS

DESIGNED BY: GEW		REVISIONS	
BY:	DATE:	NO.	DESCRIPTION:
DRAWN BY: GAU			

**DYNOTEC**

THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO

**M S D**  
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'

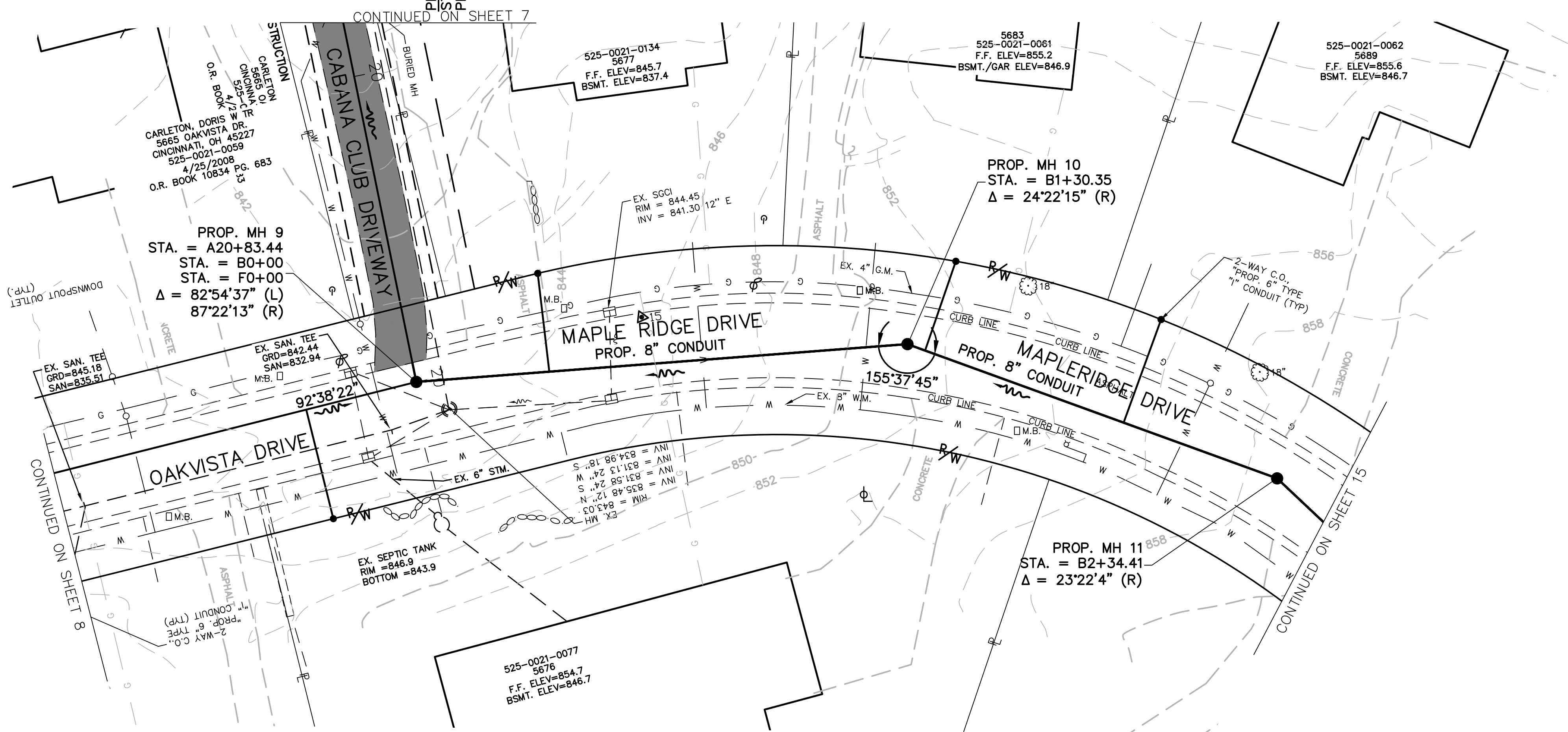
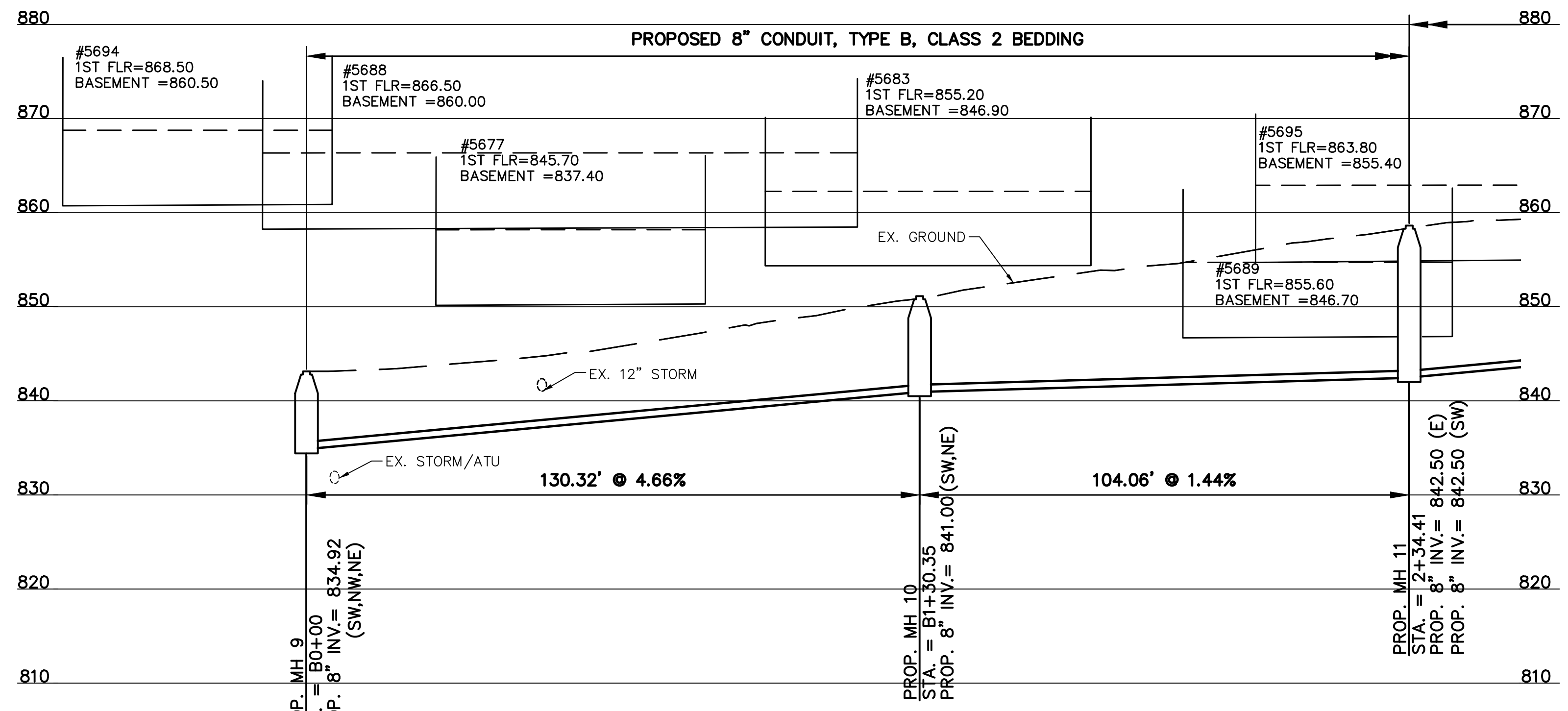
**KENWOOD HILLS DRIVE**

**PLAN AND PROFILE**

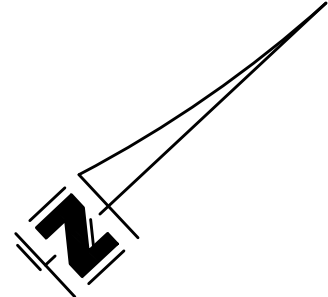
ACC. NO. 78240

SHEET 13 OF 34

SS# 5933



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



PATH: N:\JOBS\2018\18026 - KENWOOD HILLS LOCAL SEWER WATER WASTEWATER\600 CAD\SSA\BASE\KENWOOD HILLS BASEMAP.DWG  
 DATE: Sep 11, 2024 - 03:34 PM  
 PLOTTED BY: RUMMINS

DESIGNED BY: GEW		REVISIONS	
BY:	DATE:	NO.	DESCRIPTION:
DRAWN BY: GAU			

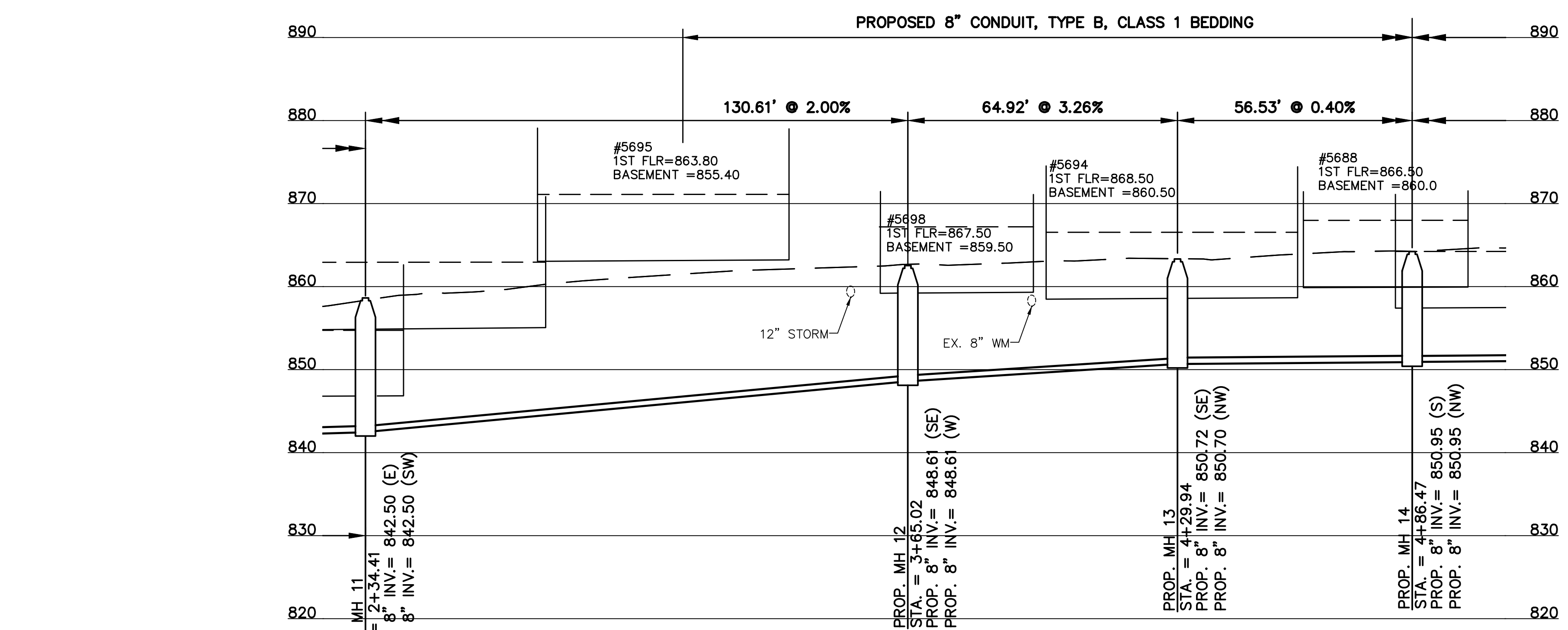


THE METROPOLITAN SEWER DISTRICT  
 OF GREATER CINCINNATI  
 HAMILTON COUNTY, OHIO

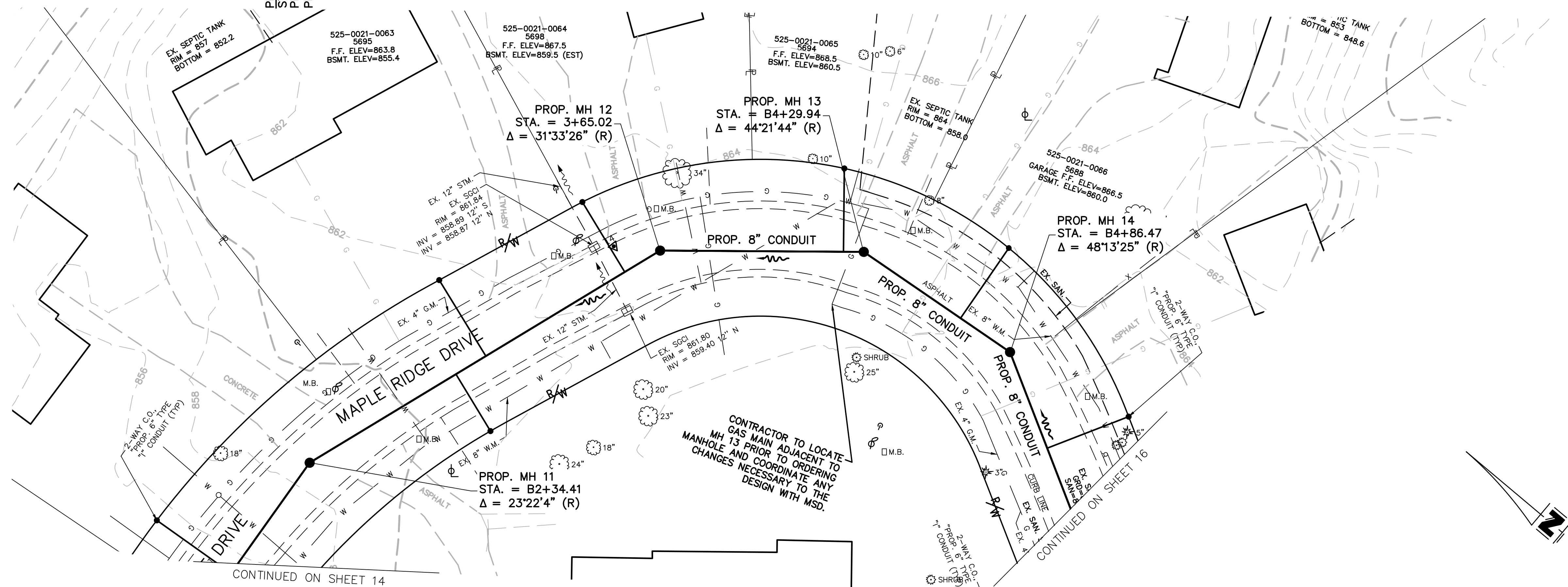
**PROPOSED PROJECT NO. 10370025**  
 FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM  
 THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG  
 COACHLITE  
 SCALE: HORIZ. 1"=20'  
 VERT. 1"=10'

**MAPLERIDGE DRIVE AT NORTH END**  
**PLAN AND PROFILE**

PATH: N:\085\2018\18026 - KENWOOD HILLS LOCAL SEWER WATER WASTEWATER\600 CAD\SSA\BASE\KENWOOD HILLS BASEMAP.DWG  
 DATE: Sep 11, 2024 - 03:34 PM  
 PLOTTED BY: RCLUMMINS



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



DESIGNED BY: GEW		REVISIONS	
BY:	DATE:	NO.	DESCRIPTION:



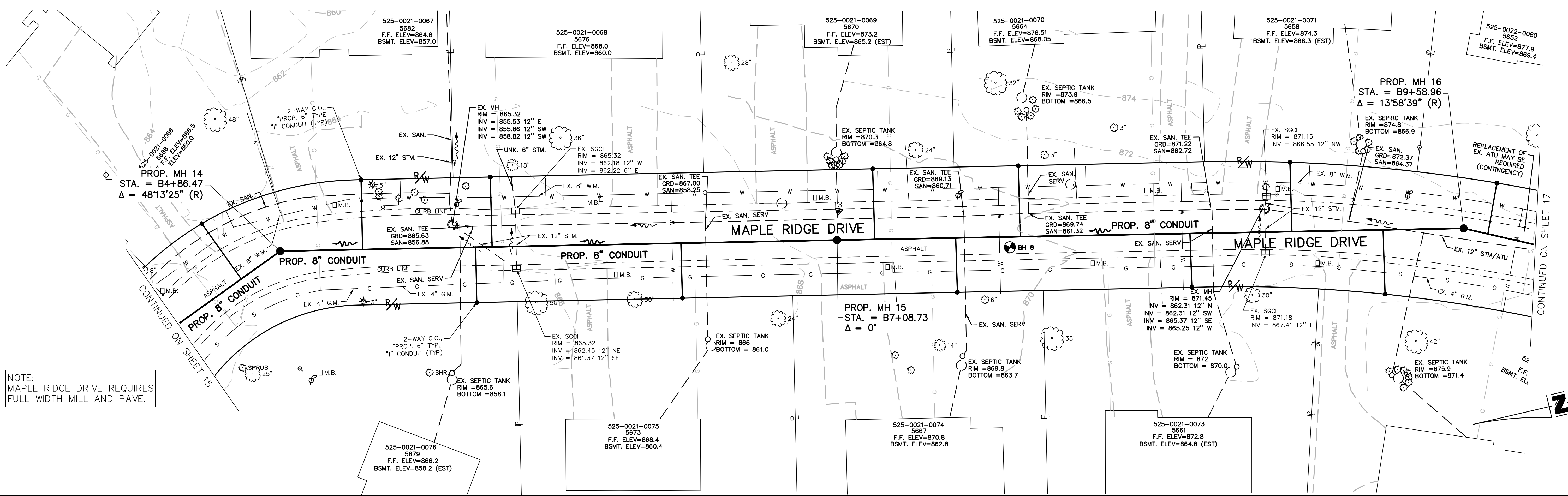
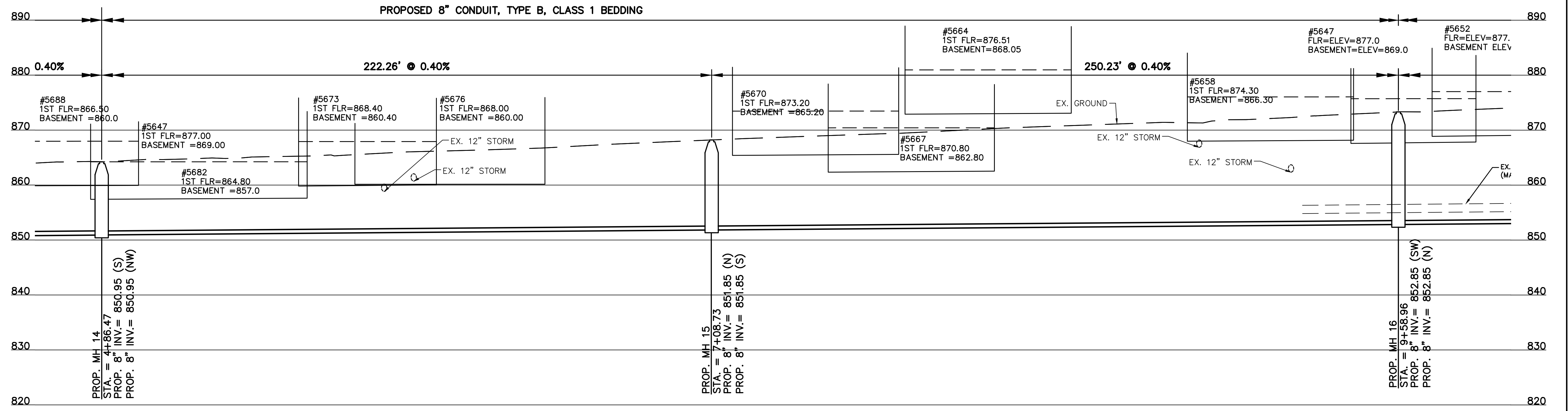
THE METROPOLITAN SEWER DISTRICT  
 OF GREATER CINCINNATI  
 HAMILTON COUNTY, OHIO

**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'

**MAPLERIDGE DRIVE AT NORTH END**

**PLAN AND PROFILE**



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

PATH: N:\JOBS\2018\18026 - KENWOOD HILLS LOCAL SEWER WATER WASTEWATER\600 CAD\SSA\BASE\KENWOOD HILLS BASEMAP.DWG  
 DATE: Sep 11, 2024 - 03:35 PM  
 PLOTTED BY: RUMMINS

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



THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO

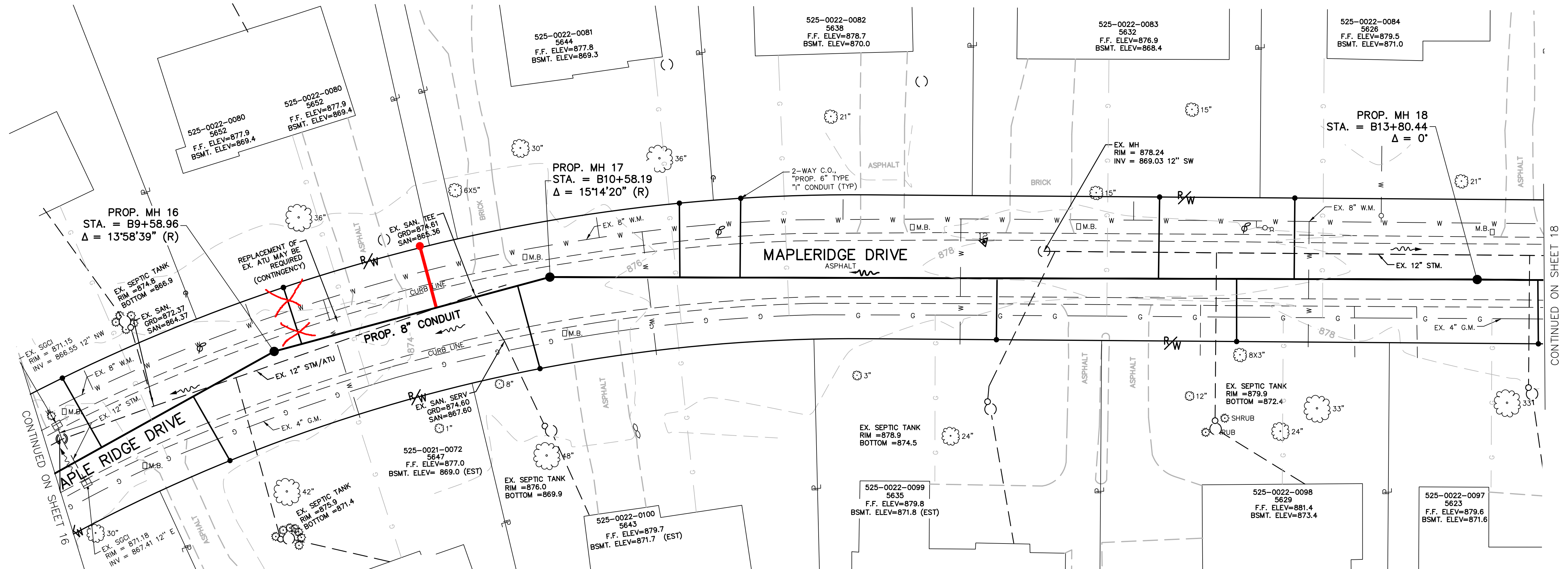
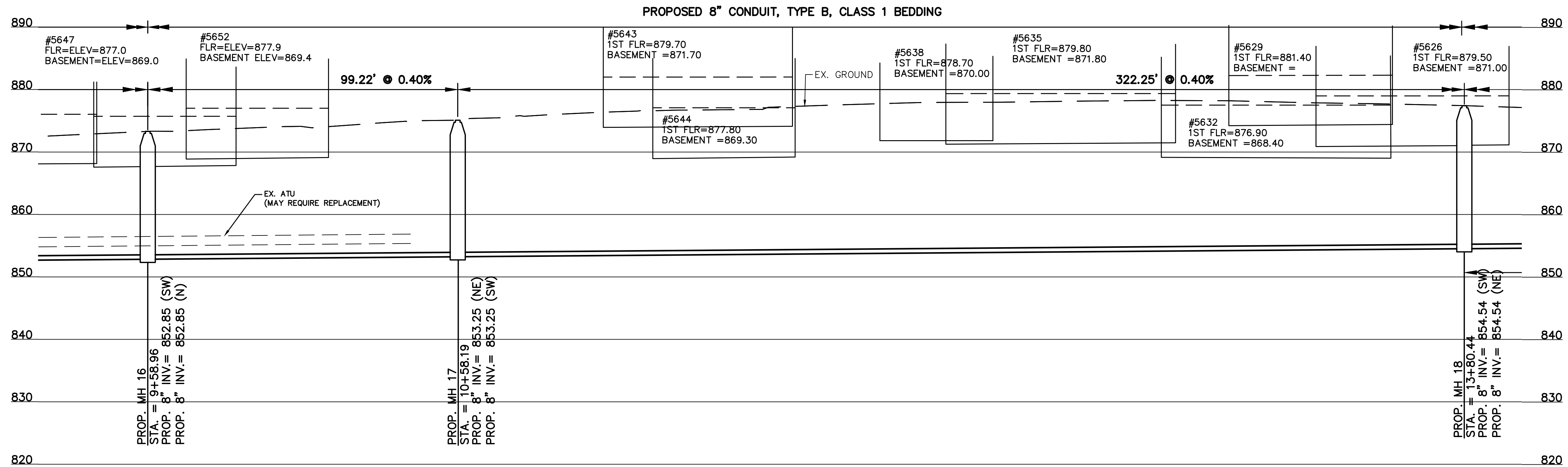


**PROPOSED PROJECT NO. 10370025**  
 FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM  
 THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG  
 COACHLITE  
 SCALE: HORIZ. 1"=20'  
 VERT. 1"=10'

**MAPLERIDGE DRIVE**  
**PLAN AND PROFILE**



PATH: N:\JOBS\2018\18026 - KENWOOD HILLS LOCAL SEWER WATER WASTEWATER\600 CAD\SSA\BASE\KENWOOD HILLS BASEMAP.DWG  
 DATE: Sep 11, 2024 - 03:35 PM  
 PLOTTED BY: RUMMINS



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

DESIGNED BY: GEW		REVISIONS	
BY:	DATE:	NO.	DESCRIPTION:
GAU			

**DYNOTEC**  
 THE METROPOLITAN SEWER DISTRICT  
 OF GREATER CINCINNATI  
 HAMILTON COUNTY, OHIO

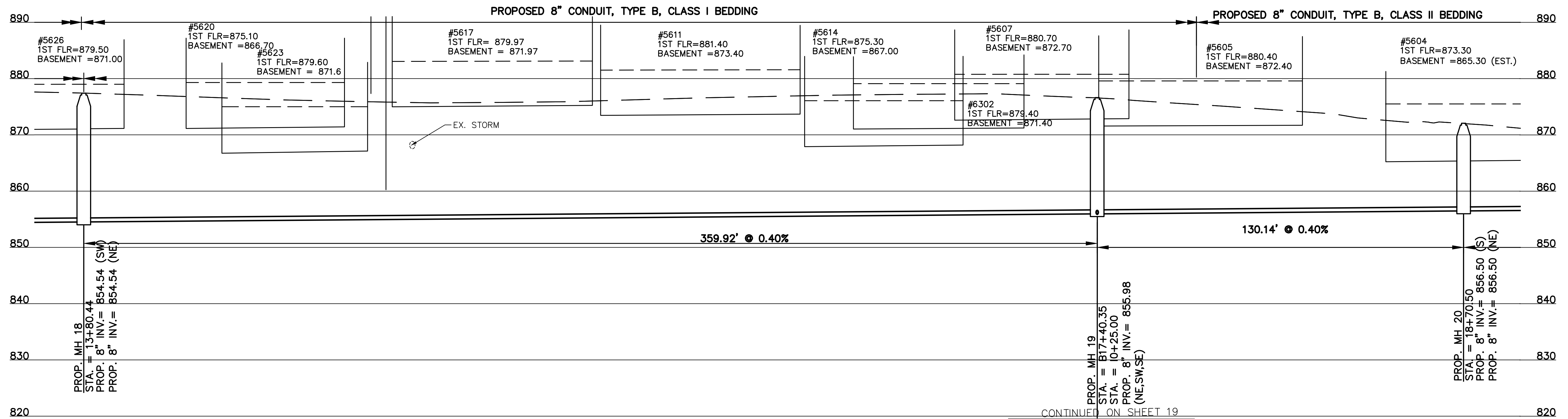
**M S D**  
 WASTEWATER  
 ENGINEERING

**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

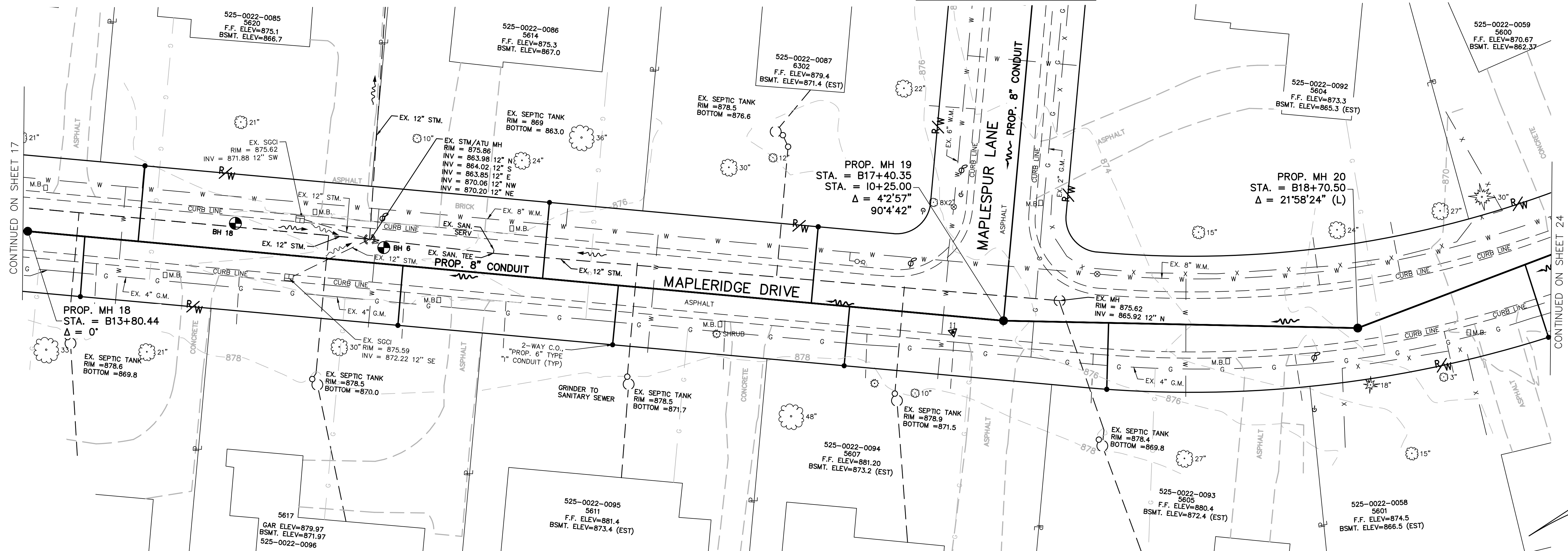
SCALE: HORIZ. 1"=20'  
 VERT. 1"=10'

**MAPLERIDGE DRIVE N of  
 MAPLESPUR**

**PLAN AND PROFILE**



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



PATH: N:\JOBS\2018\18026 - KENWOOD HILLS LOCAL SEWER WATER WASTEWATER\600 CAD\SSA\BASE\KENWOOD HILLS BASEMAP.DWG  
 DATE: Sep 11, 2024 - 03:36 PM  
 PLOTTED BY: RUMMINS

DESIGNED BY: GEW		REVISIONS	
BY:	DATE:	NO.	DESCRIPTION:
GAU			

**DYNOTEC**

THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO

**M S D**  
WASTEWATER  
ENGINEERING

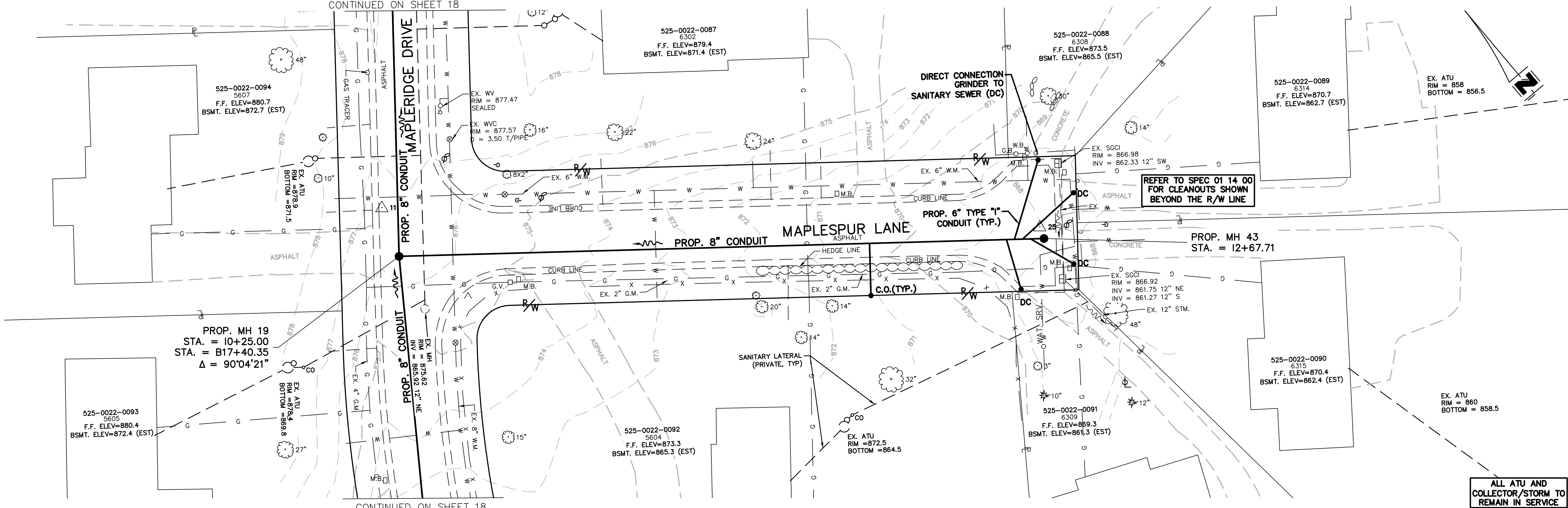
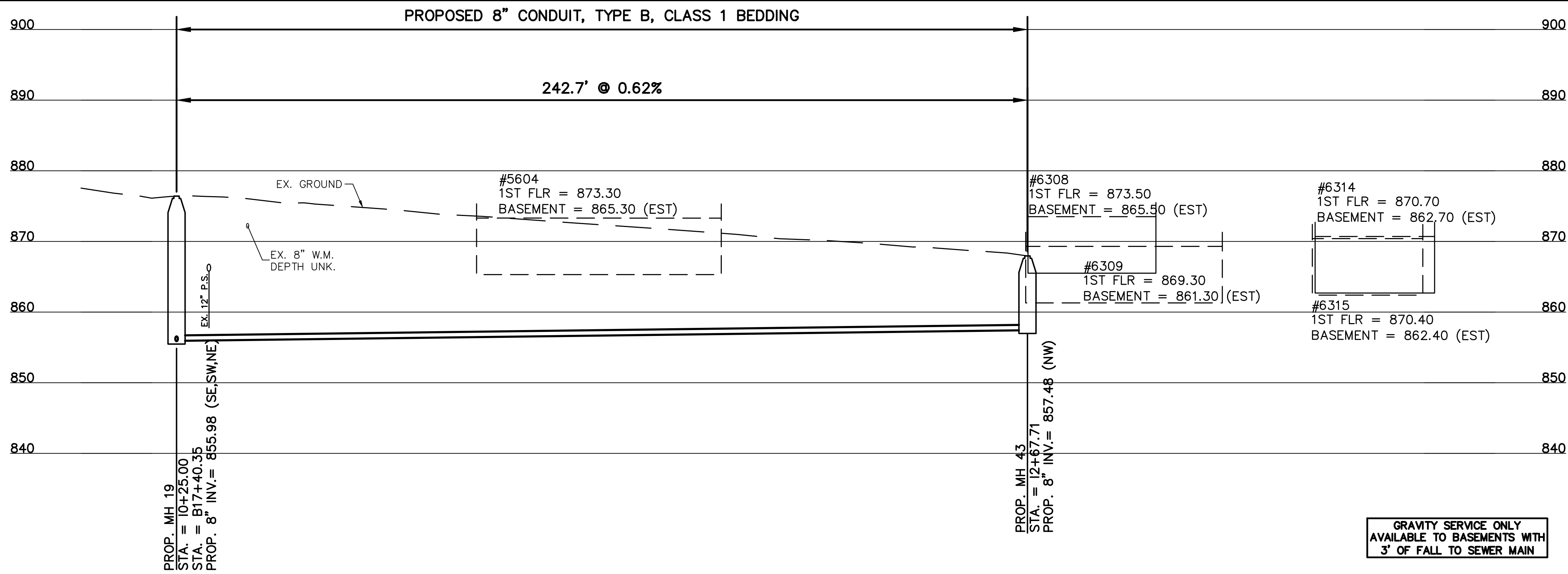
**PROPOSED PROJECT NO. 10370025**

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 & MAPLESPUR**

**PLAN AND PROFILE**



PATH: N:\PROJECTS\2018\18026 - KENWOOD HILLS LOCAL SEWER\WATER\_WASTE\WATER\600 CAD\BASE\RA CONSULTANTS KENWOOD.DWG  
 DATE: Sep 11, 2024 03:37 PM  
 PLOTTED BY: RUMMINS

DESIGNED BY: GEW		REVISIONS	
BY:	DATE:		DESCRIPTION:

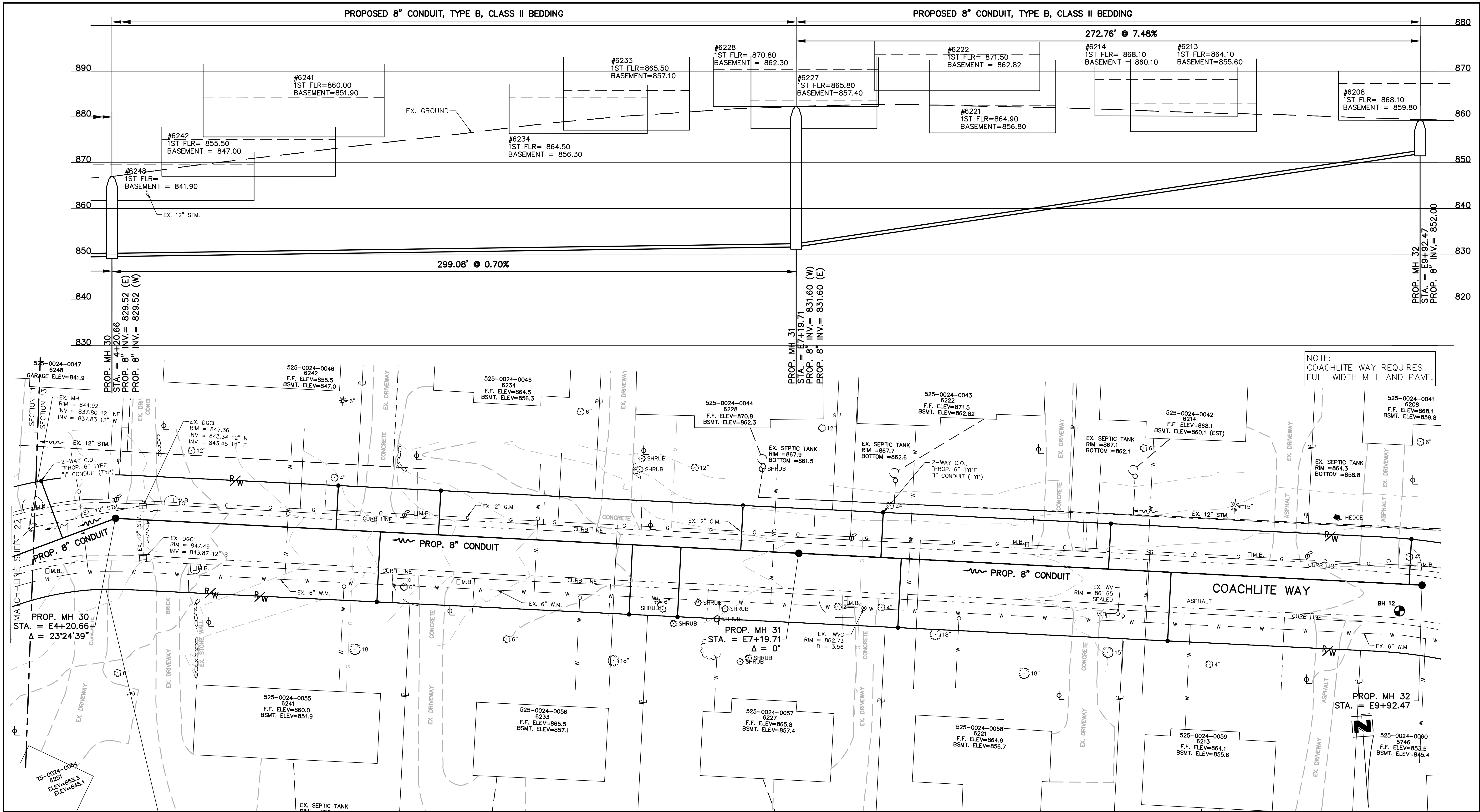


THE METROPOLITAN SEWER DISTRICT  
 OF GREATER CINCINNATI  
 HAMILTON COUNTY, OHIO



**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'

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



NOTE:  
COACHLITE WAY REQUIRES  
FULL WIDTH MILL AND PAVE.

PATH: C:\CADD\18026 - KENWOOD HILLS LOCAL SEWER WATER - WASTEWATER\ROAD CROSS BASE\KENWOOD HILLS BASEMAP.DWG  
 DATE: Sep 11, 2024 - 03:37 PM  
 PLOTTED BY: RUMMINS

DESIGNED BY: GEW		REVISIONS	
BY:	DATE:	NO.	DESCRIPTION:
GAU			



THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO

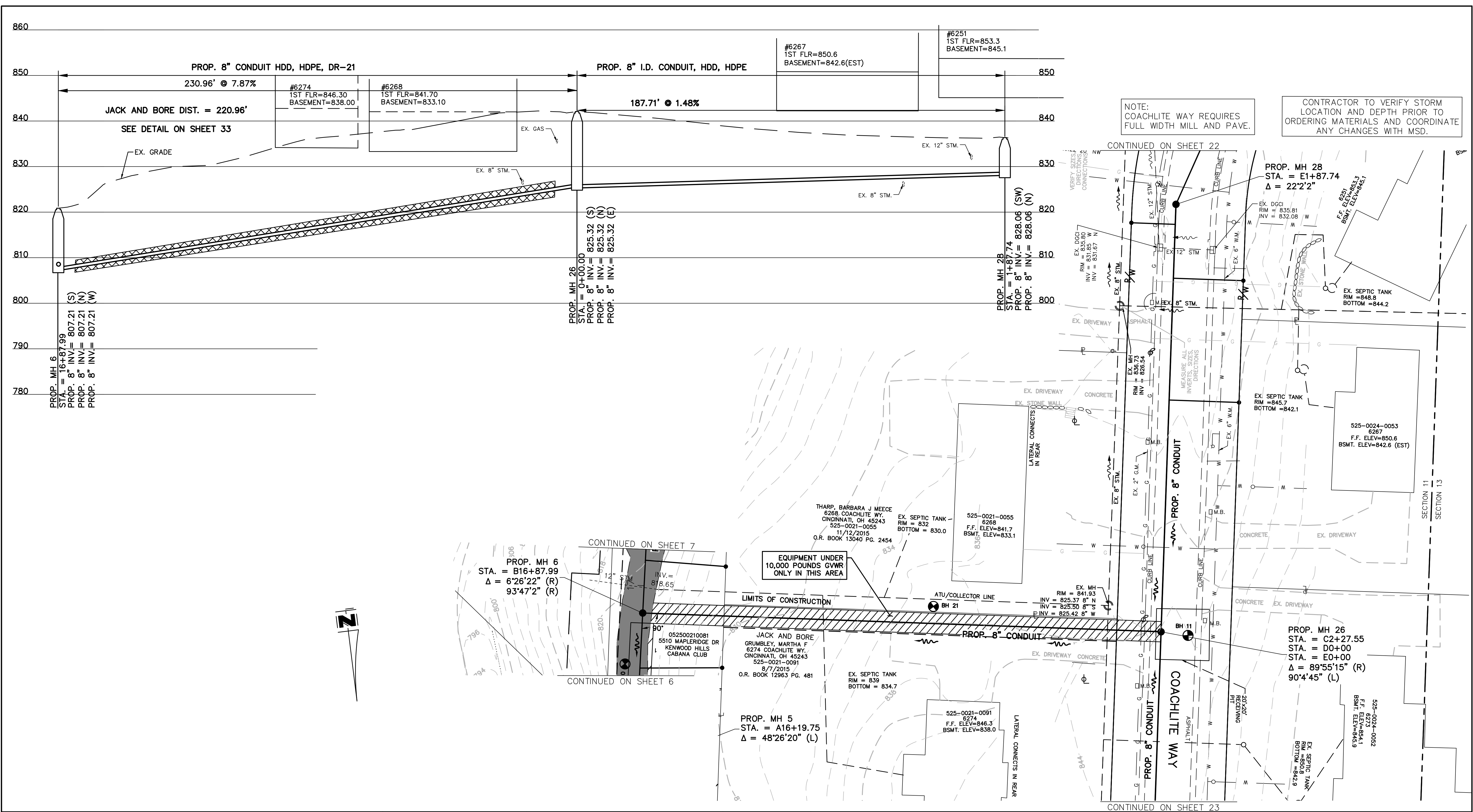
**PROPOSED PROJECT NO. 10370025**  
 FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM  
 THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG  
 COACHLITE

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

**COACHLITE WAY**

**PLAN AND PROFILE**

PATH: N:\JOBS\2018\18026 - KENWOOD HILLS LOCAL SEWER WATER\_WASTEWATER\600 CAD\SSA\BASE\KENWOOD HILLS BASEMAP.DWG  
 DATE: Sep 11, 2024 - 03:38 PM  
 PLOTTED BY: RUMMINS



NOTE:  
 COACHLITE WAY REQUIRES  
 FULL WIDTH MILL AND PAVE.

CONTRACTOR TO VERIFY STORM  
 LOCATION AND DEPTH PRIOR TO  
 ORDERING MATERIALS AND COORDINATE  
 ANY CHANGES WITH MSD.

DESIGNED BY: GEW		REVISIONS	
BY:	DATE:	NO.	DESCRIPTION:
GEW			
GAU			

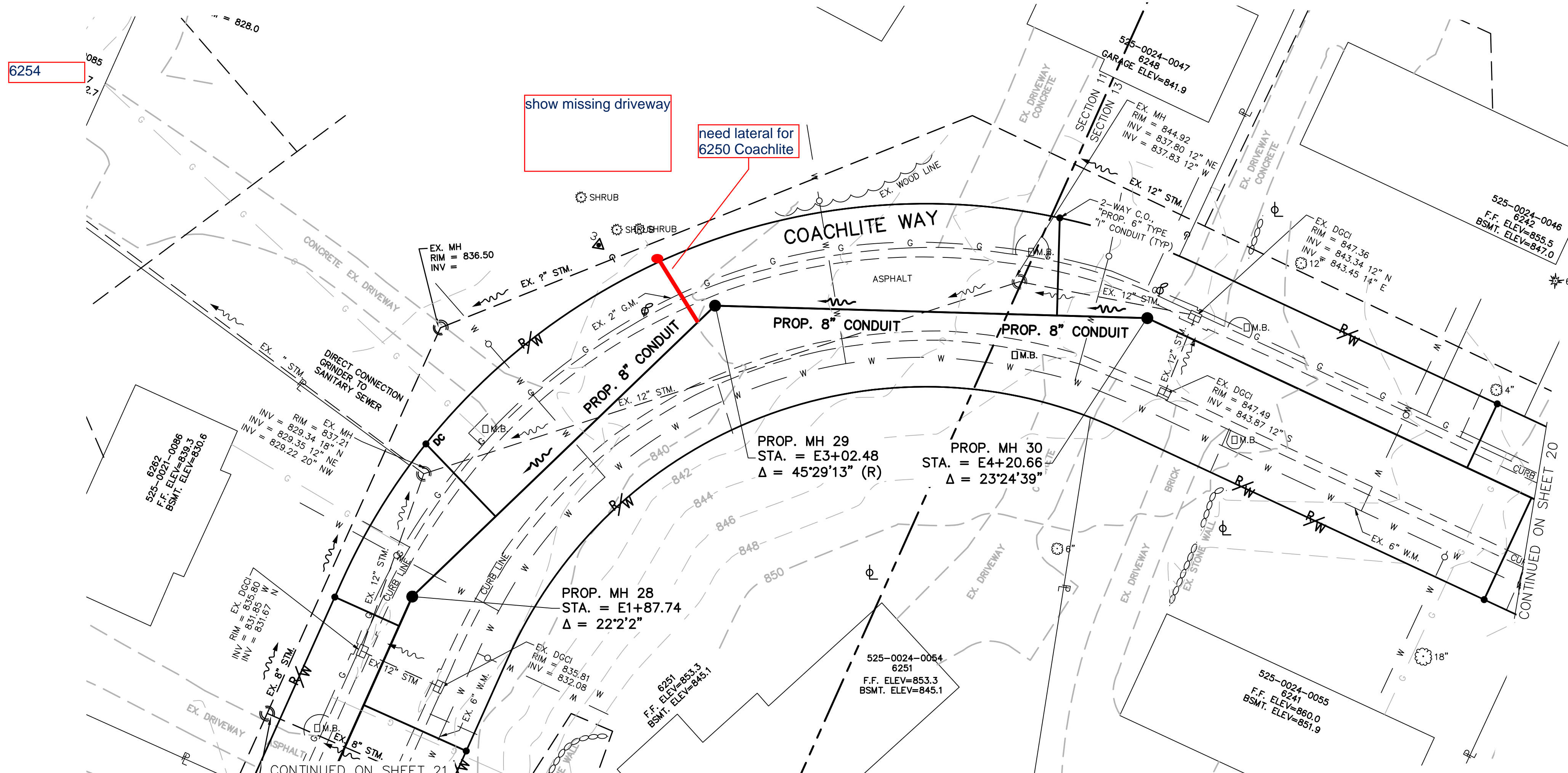
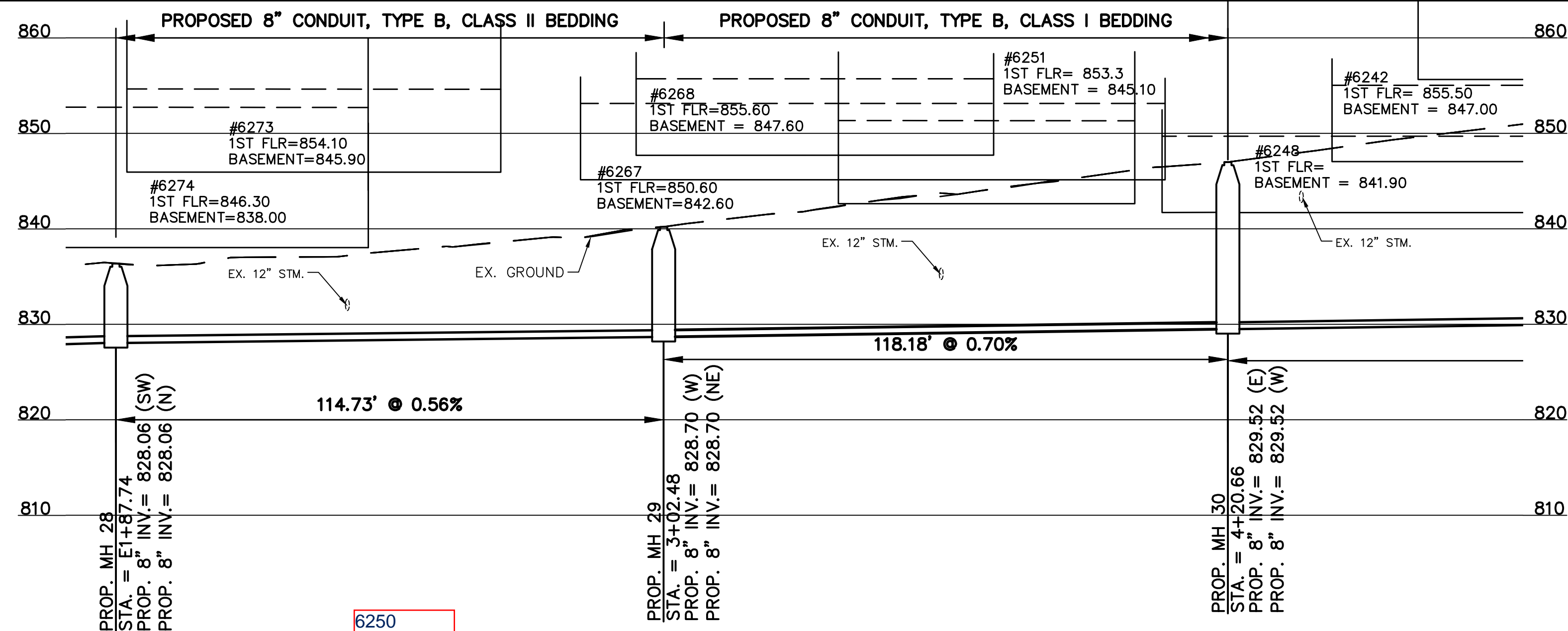


THE METROPOLITAN SEWER DISTRICT  
 OF GREATER CINCINNATI  
 HAMILTON COUNTY, OHIO

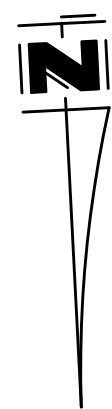
**PROPOSED PROJECT NO. 10370025**  
 FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM  
 THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG  
 COACHLITE

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

**COACHLITE WAY to CABANA CLUB DR.**  
**PLAN AND PROFILE**



NOTE:  
COACHLITE WAY REQUIRES  
FULL WIDTH MILL AND PAVE.



PATH: N:\085\2018\8926 - KENWOOD HILLS LOCAL SEWER WATER WASTEWATER\600 CAD\SSA\BASE\KENWOOD HILLS BASEMAP.DWG  
DATE: Sep 11, 2024 - 03:38 PM  
PLOTTED BY: RUMMINS

DESIGNED BY: GEW		REVISIONS	
BY:	DATE:	NO.	DESCRIPTION:
DRAWN BY: GAU			

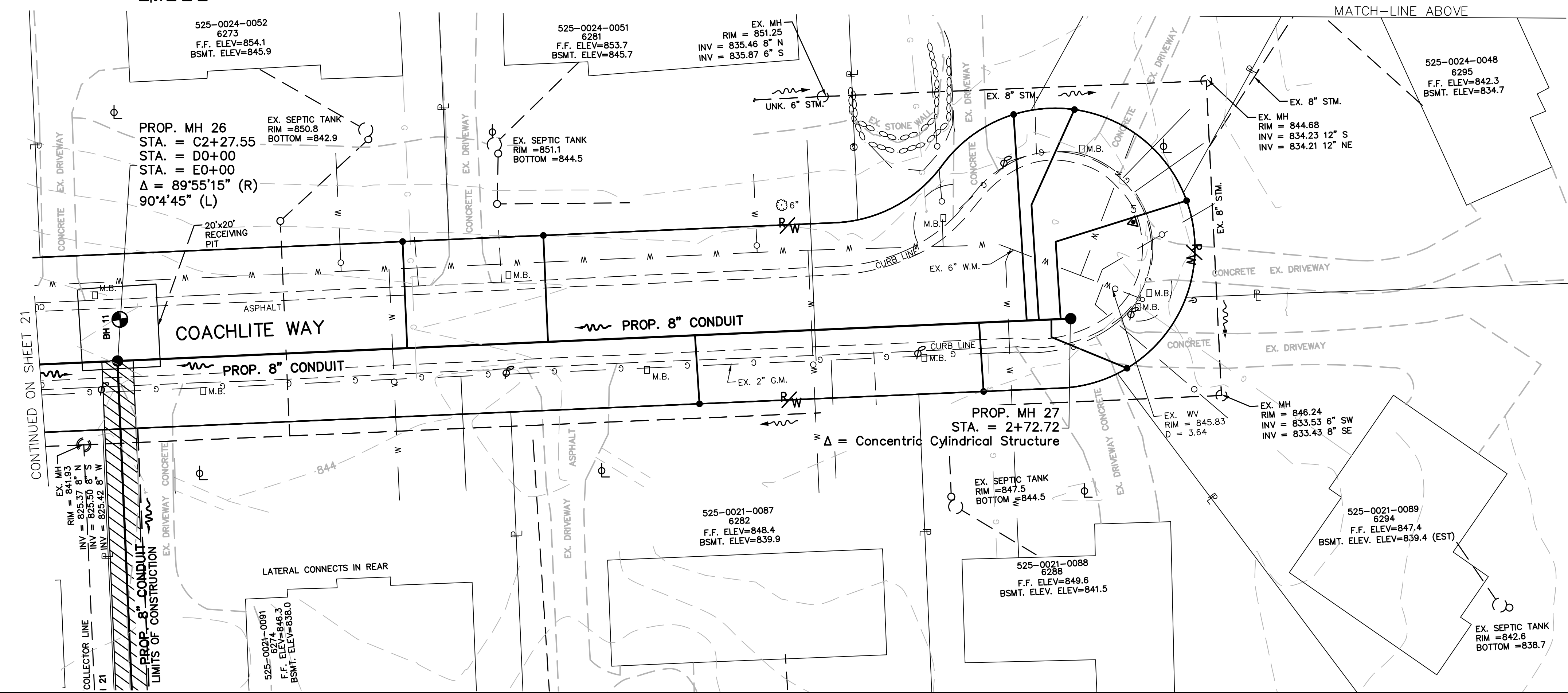
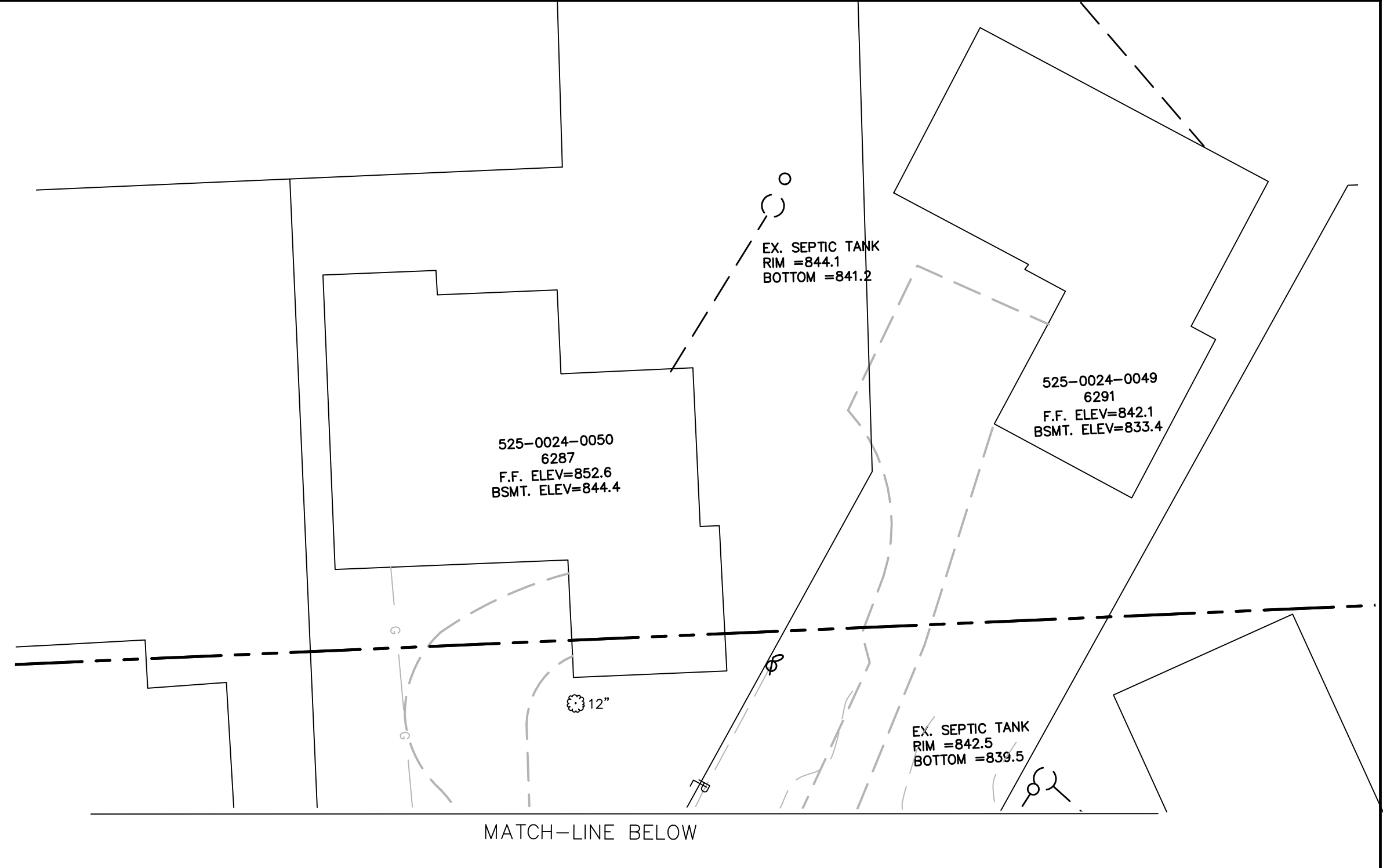
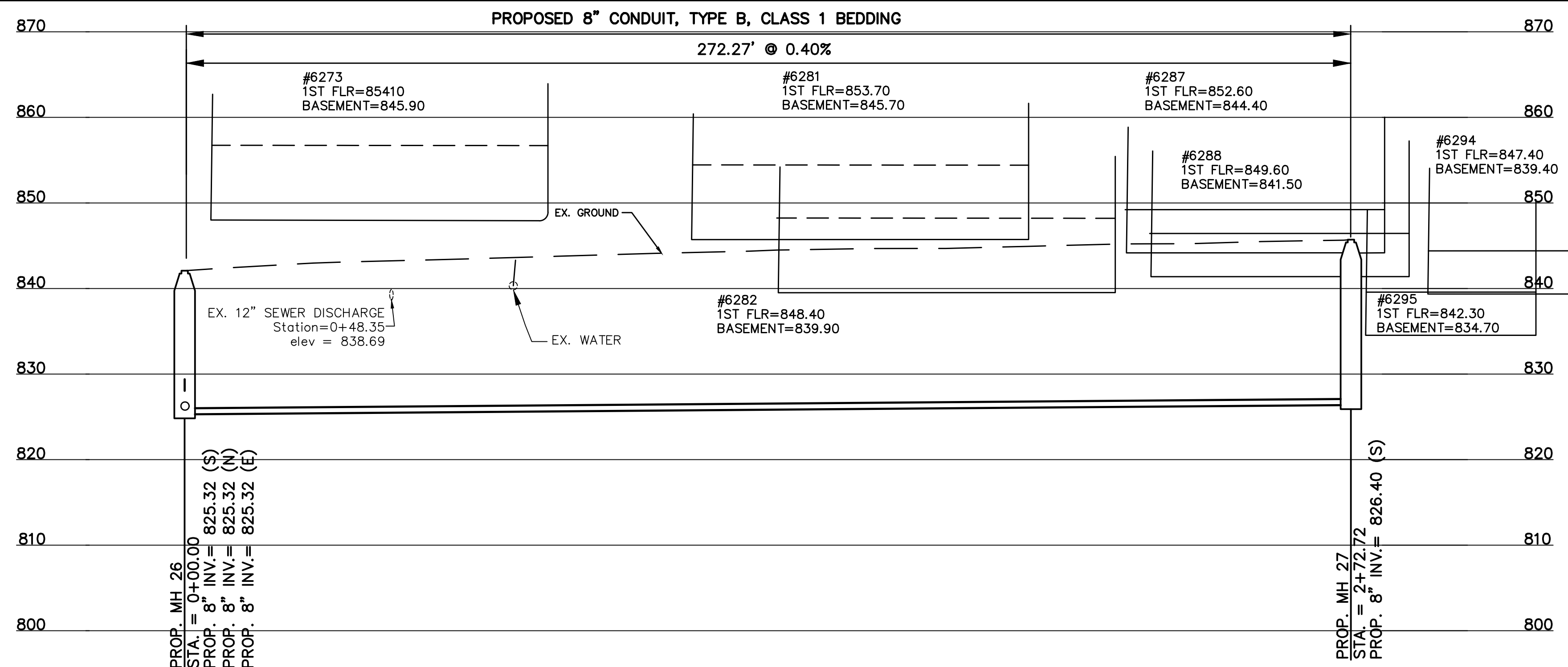
**DYNOTEC**  
THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO

**M S D**  
WASTEWATER  
ENGINEERING

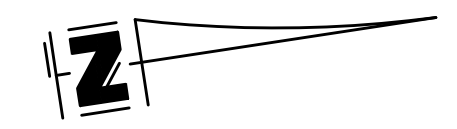
**PROPOSED PROJECT NO. 10370025**  
FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM  
THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG  
COACHLITE

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

**COACHLITE WAY**  
**PLAN AND PROFILE**



NOTE:  
COACHLITE WAY REQUIRES  
FULL WIDTH MILL AND PAVE.



PATH: N:\JOBS\2018\8926 - KENWOOD HILLS LOCAL SEWER WATER WASTEWATER\600 CAD\SSA\BASE\KENWOOD HILLS BASEMAP.DWG  
 DATE: Sep 11, 2024 - 03:39 PM  
 PLOTTED BY: RUMMINS

DESIGNED BY: GEW		REVISIONS	
BY:	DATE:	NO.	DESCRIPTION:
GEW			
GAU			



THE METROPOLITAN SEWER DISTRICT  
 OF GREATER CINCINNATI  
 HAMILTON COUNTY, OHIO

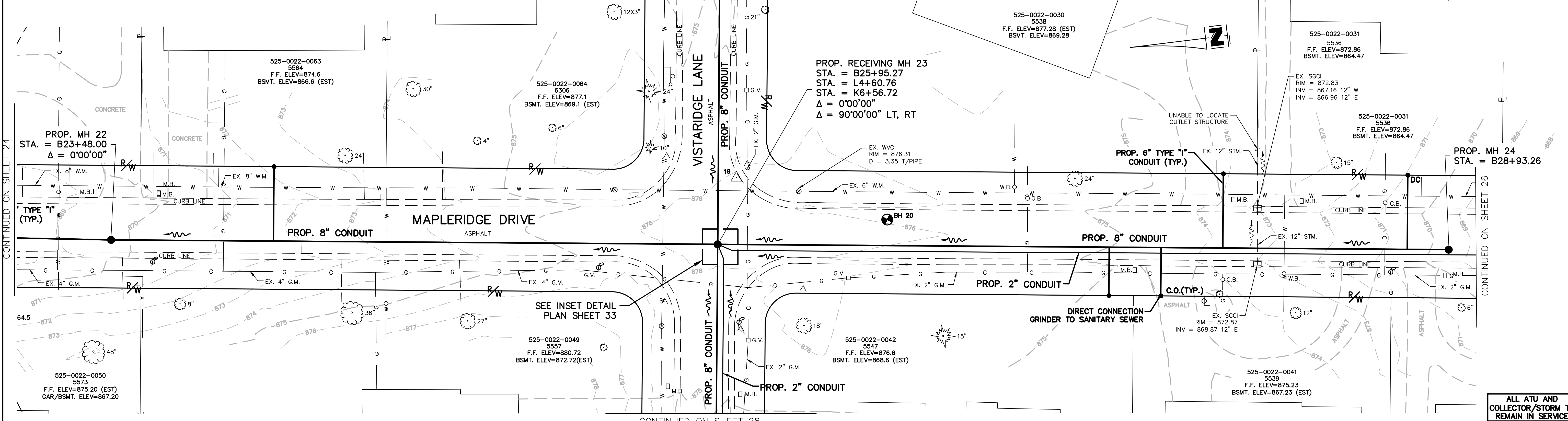
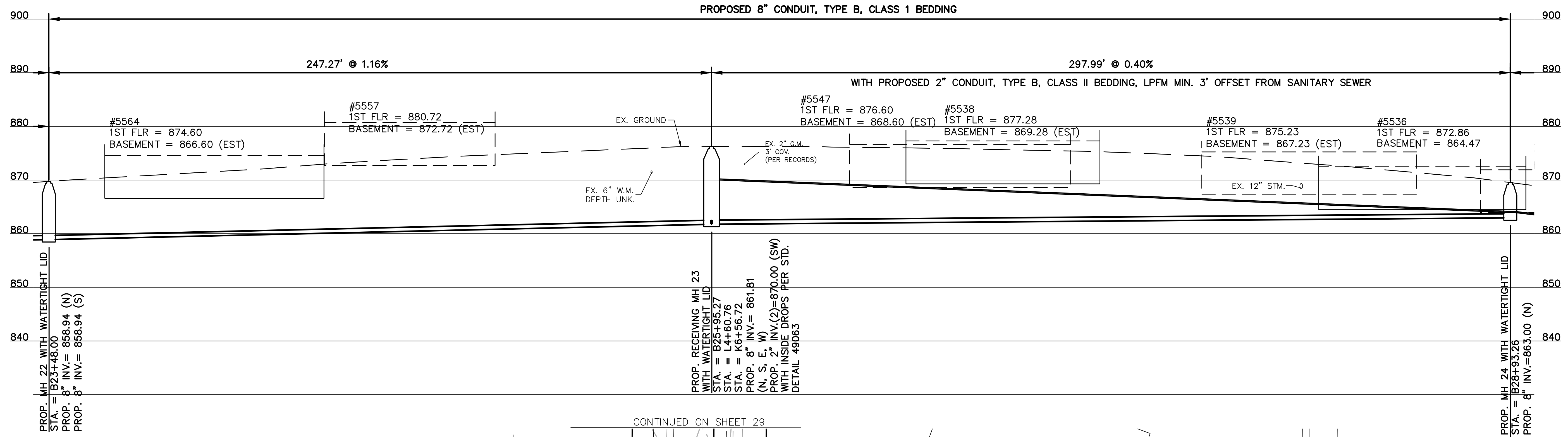


**PROPOSED PROJECT NO. 10370025**  
 FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM  
 THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG  
 COACHLITE  
 SCALE: HORIZ. 1"=20'  
 VERT. 1"=10'

**COACHLITE WAY**  
**PLAN AND PROFILE**





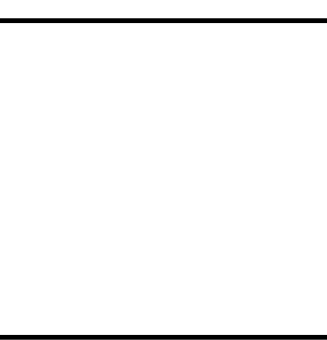


PATH: N:\PROJECTS\2018\18026 - KENWOOD HILLS LOCAL SEWER\WATER\_WASTEWATER\600 CAD\BASE\RA CONSULTANTS KENWOOD.DWG  
 DATE: Sep 11, 2024 - 03:40 PM  
 PLOTTED BY: RUMMINS

REVISIONS		
BY:	DATE:	DESCRIPTION:



THE METROPOLITAN SEWER DISTRICT  
 OF GREATER CINCINNATI  
 HAMILTON COUNTY, OHIO

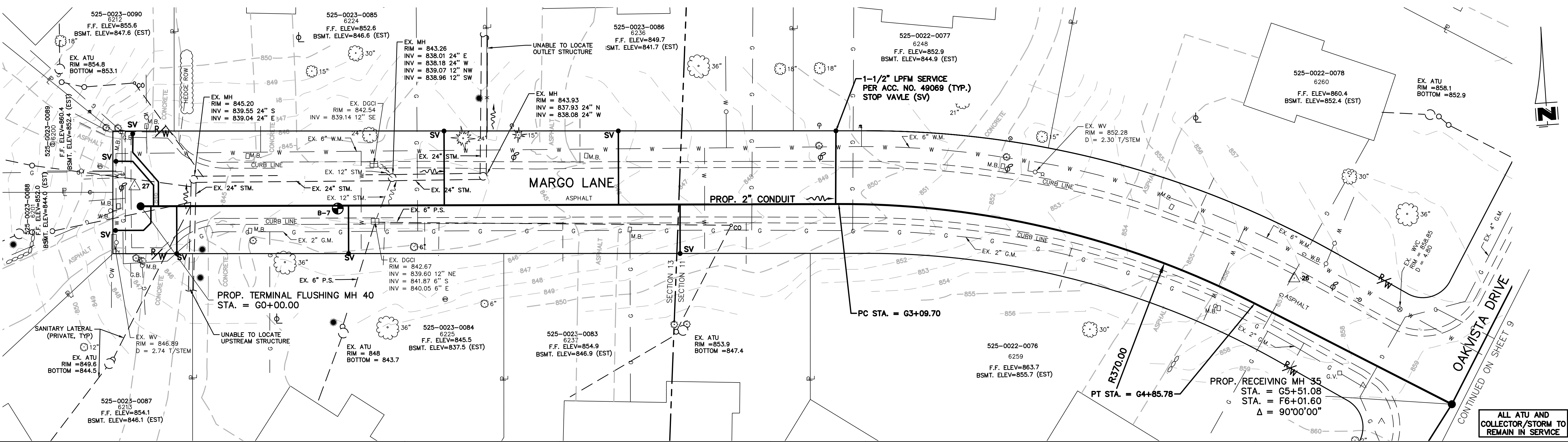
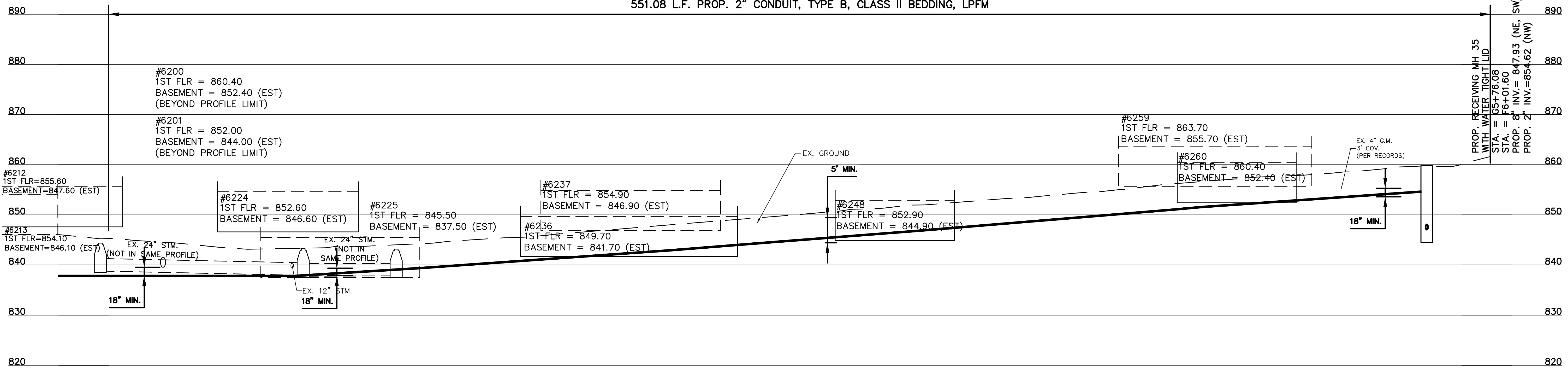


**PROPOSED PROJECT NO. 10370025**  
 FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM  
 THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG  
 COACHLITE  
 SCALE: HORIZ. 1"=20'  
 VERT. 1"=10'

**PLAN AND PROFILE**  
 ACC. NO. 78252 SHEET 25 OF 34 SS# 5933



551.08 L.F. PROP. 2" CONDUIT, TYPE B, CLASS II BEDDING, LPFM



PATH: N:\005\2018\18026 - KENWOOD HILLS LOCAL SEWER\WATER\WASTEWATER\600 CAD\BASE\RA CONSULTANTS KENWOOD.DWG  
 DATE: Sep 11, 2024 - 03:41 PM  
 PLOTTED BY: RUMMINS

REVISIONS			
BY:	DATE:	DESCRIPTION:	



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'

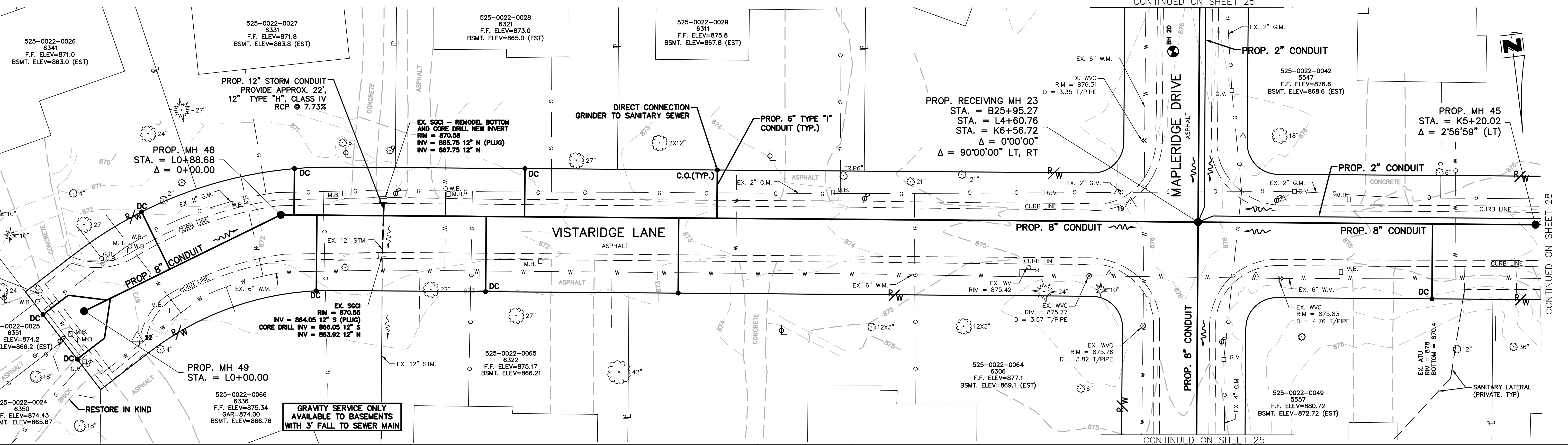
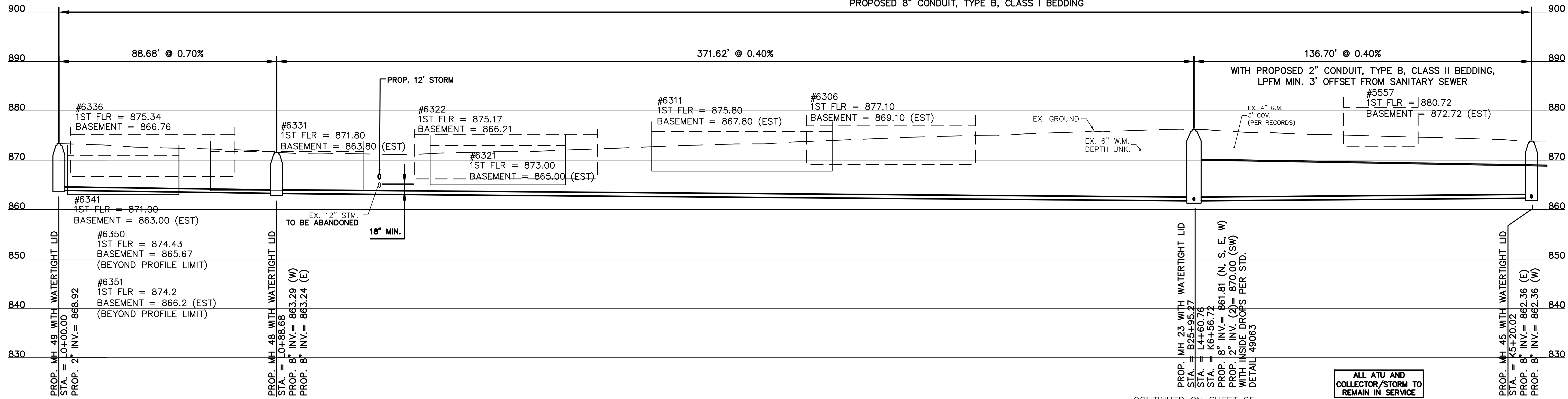
**PLAN AND PROFILE**

ACC. NO. 78254 SHEET 27 OF 34

ALL ATU AND COLLECTOR/STORM TO REMAIN IN SERVICE



PROPOSED 8" CONDUIT, TYPE B, CLASS I BEDDING



PATH: N:\A\085\2018\10370025 - KENWOOD HILLS LOCAL SEWER\WATER\_WASTEWATER\600 CAD\BASE\RA CONSULTANTS KENWOOD.DWG  
 DATE: Sep 11, 2024 - 03:42 PM  
 PLOTTED BY: RUMMINS

REVISIONS		
BY:	DATE:	DESCRIPTION:



THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO

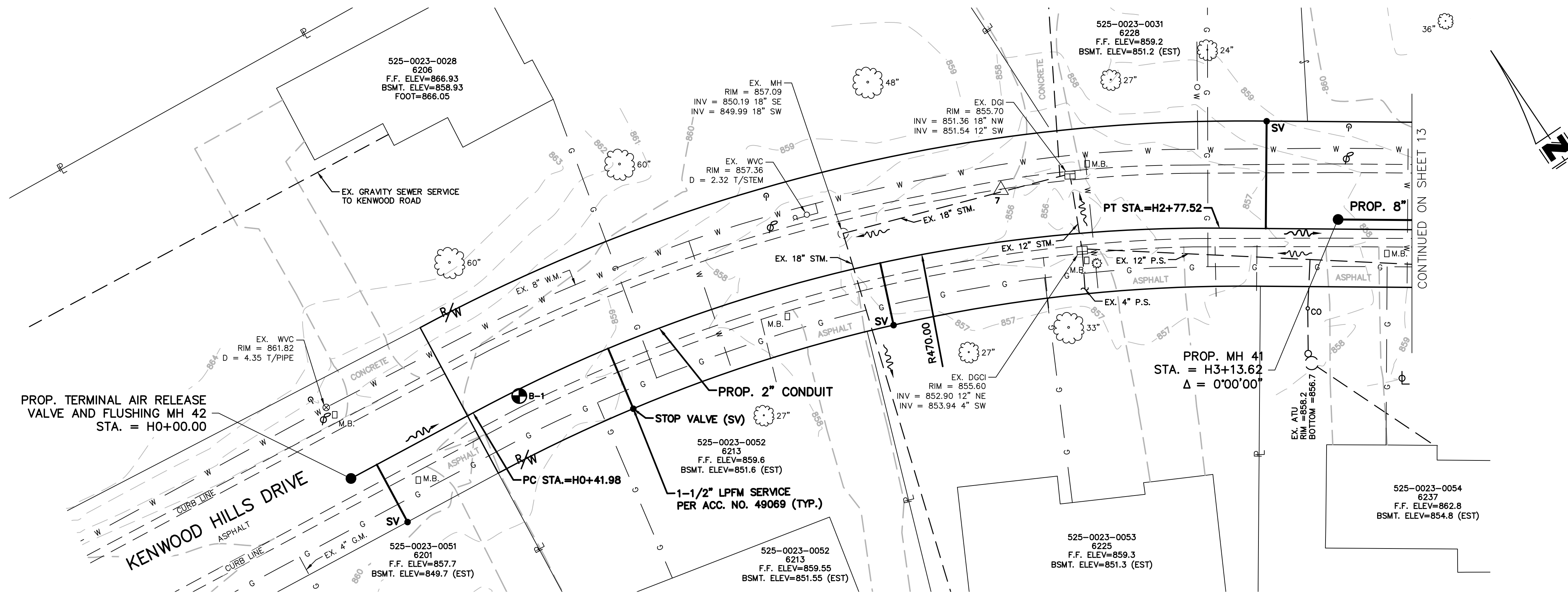
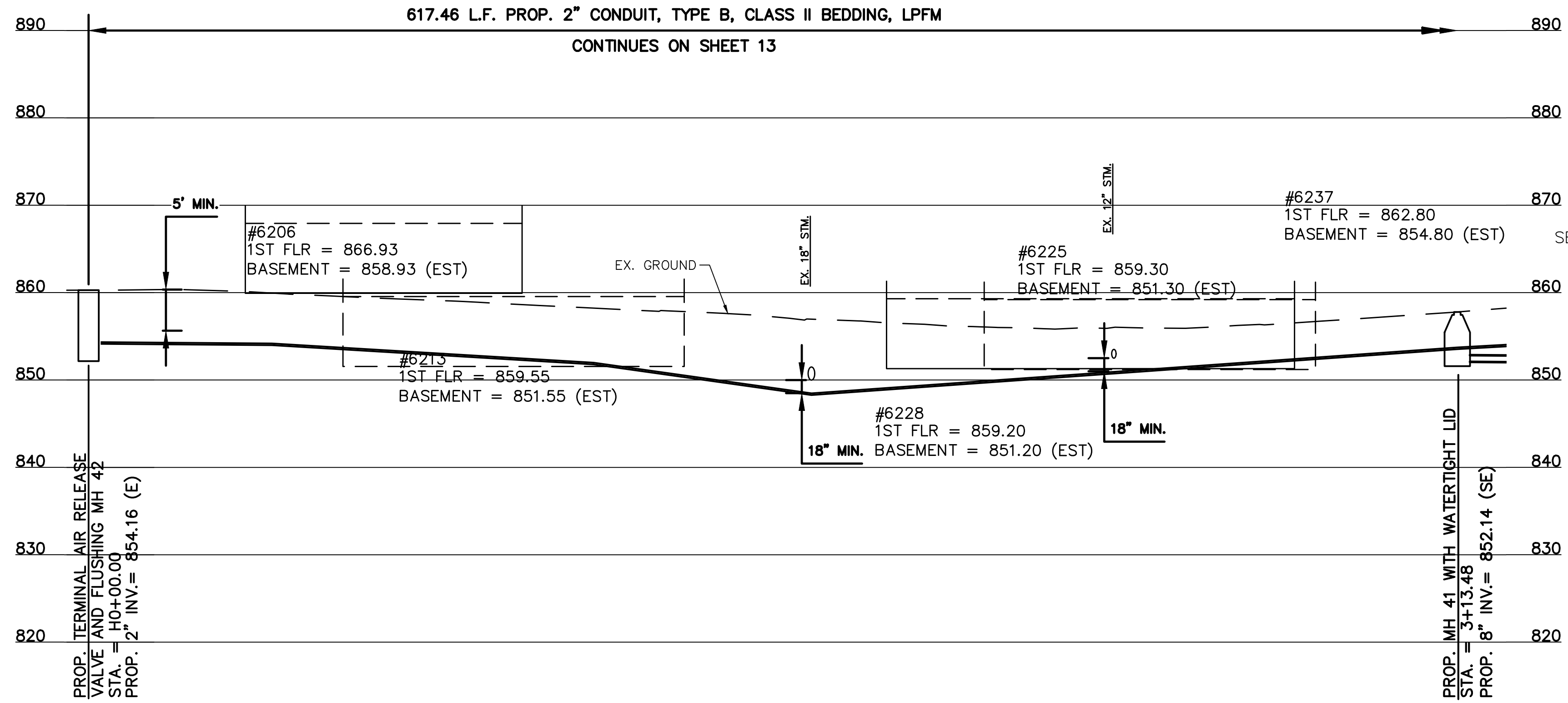
**PROPOSED PROJECT NO. 10370025**  
 FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM  
 THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG  
 COACHLITE

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

**PLAN AND PROFILE**

ACC. NO. 78256 SHEET 29 OF 34

SS# 5933



PATH: N:\PROJECTS\2018\18026 - KENWOOD HILLS LOCAL SEWER\WATER\WASTEWATER\600 CAD\BASE\RA CONSULTANTS KENWOOD.DWG  
 DATE: Sep 11, 2024 03:43 PM  
 PLOTTED BY: RUMMINS

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



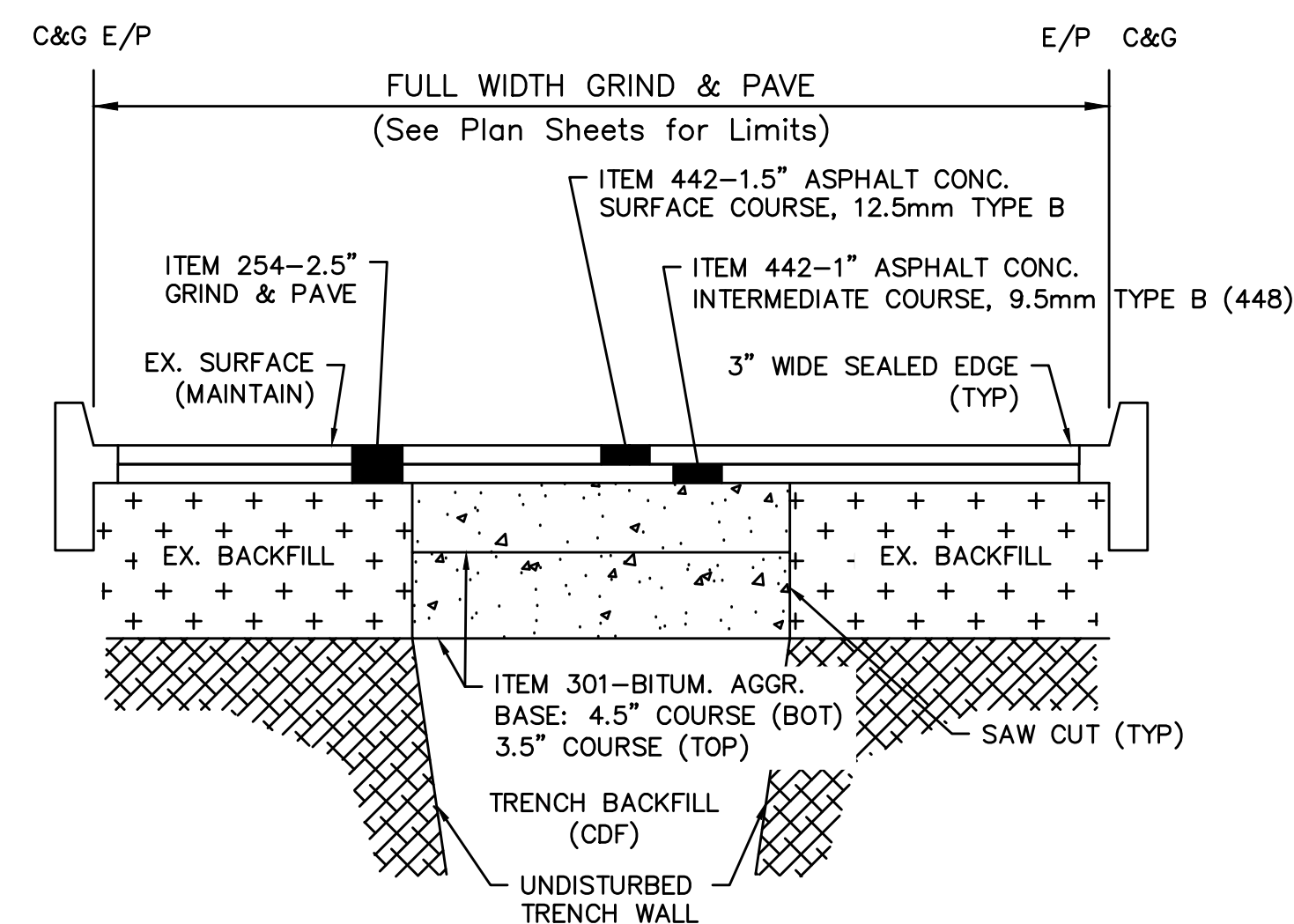
THE METROPOLITAN SEWER DISTRICT  
 OF GREATER CINCINNATI  
 HAMILTON COUNTY, OHIO



**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"=20'  
 VERT. 1"=10'

**PLAN AND PROFILE**  
 ACC. NO. 78257 SHEET 30 OF 34 SS# 5933





**HCEO ROADWAY NOTES:**

1. SAW CUT FULL DEPTH PAVEMENT WITH WET DIAMOND BLADE SAW. VERMEER WILL NOT BE PERMITTED.
2. VERTICAL FACE OF EXISTING PAVEMENT SHALL BE CLEANED BY COMPRESSED AIR AND WETTED PRIOR TO PLACING CONCRETE.
3. PLACE AND COMPACT ASPHALT CONCRETE SURFACE COURSE IN ACCORDANCE WITH ODOT CMS ITEM 401.
4. ITEM 702.04-EDGES OF NEW ASPHALT SURFACE COURSE SHALL BE SEALED WITH A UNIFORM 3" WIDTH OF HOT APPLIED ASPHALT BINDER.
5. IF THE PROPOSED PAVEMENT WIDTH IS GREATER THAN 3'-0", THE CONTRACTOR HAS THE OPTION TO USE ODOT CMS ITEM 301-ASPHALT CONCRETE BASE.
- A. ASPHALT CONCRETE BASE MUST BE PLACED AND COMPACTED IN TWO EQUAL LIFTS, THE TOTAL THICKNESS OF ASPHALT BASE SHALL BE 8".
- B. PRIOR TO PLACING THE ASPHALT BASE, ALL VERTICAL SURFACE SHALL BE CLEANED AND COATED WITH BITUMINOUS MATERIAL IN ACCORDANCE WITH ODOT 407.02.
6. BUTT JOINTS ARE NECESSARY AT INTERSECTING STREETS.
7. ALL CASTING ADJUSTMENTS, REMOVAL OF PAVEMENT MARKERS, AND THE INSTALLATION OF NEW LINE STRIPING AND MARKERS SHALL BE INCLUDED.
8. 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](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 D2321)	• 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. ROB GOODPASTER  
(513) 431-5598  
robert.goodpaster@cincinnati-oh.gov

**GAS:** DUKE ENERGY  
139 EAST FOURTH STREET, ROOM 406A  
CINCINNATI, OHIO 45202  
MR. RICHARD HACKER  
(513) 287-4653  
richard.hacker@duke-energy.com

**WATER:** GREATER CINCINNATI WATER WORKS  
ASSISTANT TREATMENT SUPERINTENDENT  
4747 SPRING GROVE AVENUE  
CINCINNATI, OHIO 45232  
MR. RICK RIESS  
(513) 591-5058  
rick.riess@gcww.cincinnati-oh.gov

**TELEPHONE:** CINCINNATI BELL TELEPHONE  
221 EAST FOURTH STREET, BLDG. 121-900  
P.O. BOX 2301  
CINCINNATI, OHIO 45201-2301  
MR. BRECK COWEN  
(513) 565-7187  
breck.cowen@cinbell.com

**CABLE:** SPECTRUM/TIME WARNER CABLE  
11252 CORNELL PARK DRIVE  
CINCINNATI, OHIO 45242  
MR. JIM O'REILLY  
(513) 386-5483  
Jim.OReilly@charter.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.

- A. 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.
- B. 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.
- C. FOR ADDITIONAL UNDERGROUND ELECTRIC RECORD INFORMATION CALL (513) 287-2454.
- D. 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.

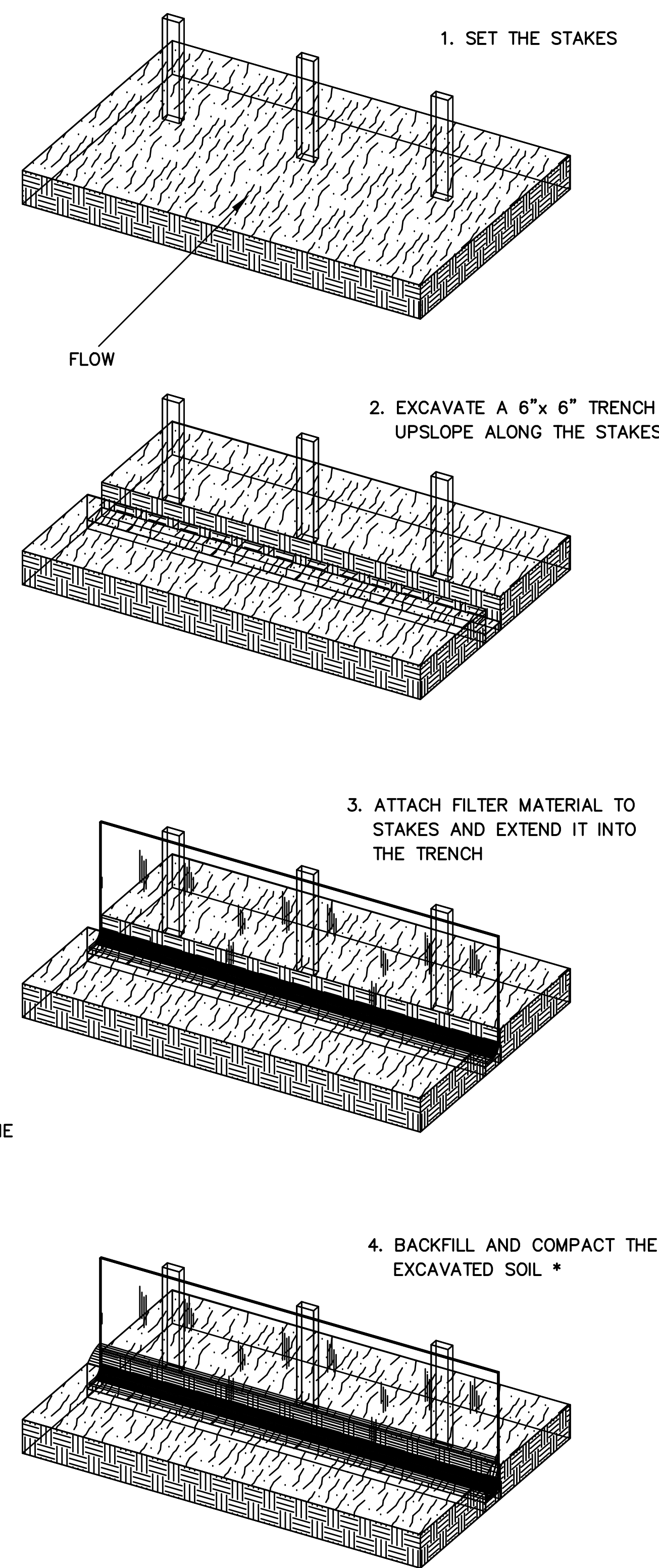
ELECTRIC FACILITIES TO BE KEPT IN SERVICE AT ALL TIMES.

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

- A. 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.
- B. 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.
- C. 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.
- D. 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.
- E. ALL DAMAGE TO ELECTRIC FACILITIES AND SERVICE REQUIRING ADJUSTMENTS, RELOCATION AND/OR REPAIRS WILL BE MADE AT THE CONTRACTOR'S COST.

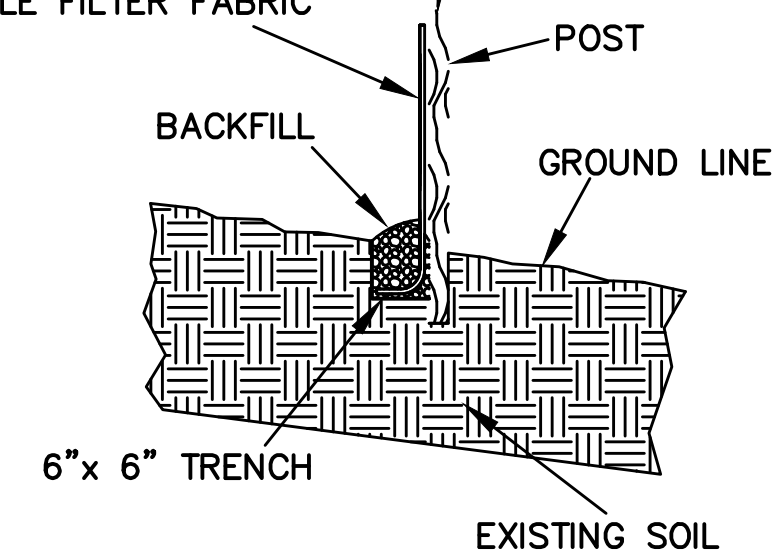
CONTRACTOR SHALL NOT BACKFILL EXPOSED ELECTRIC FACILITIES UNTIL THE COMPANY HAS INSPECTED ITS FACILITY OR PERFORMED ANY ADJUSTMENTS AND/OR MAINTENANCE THAT MAY BE REQUIRED.

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.



STEEL "1" OR 4" POST  
ON 8' CENTERS  
WHERE NEEDED, STAKE ON  
4' CENTERS

FILTER FABRIC:  
EXTENDS INTO TRENCH  
WHEN NEEDED, USE  
DOUBLE FILTER FABRIC



\* 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: 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"=20'  
VERT. 1"=10'

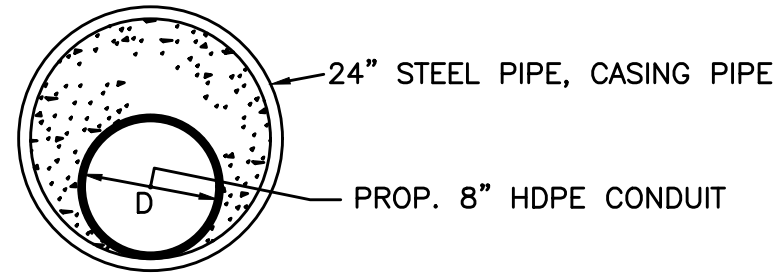
**NOTES & DETAILS**  
**PLAN AND PROFILE**

PATH: N:\PROJECTS\2018\18026 - KENWOOD HILLS LOCAL SEWER WATER WASTEWATER\600 CAD\BASE\RA CONSULTANTS KENWOOD.DWG  
 DATE: Sep 11, 2024 - 03:43 PM  
 PLOTTED BY: RCUUMINS



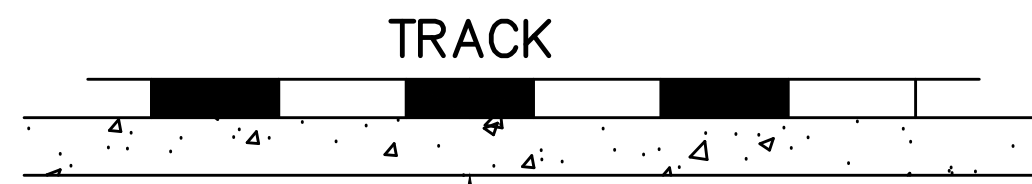
FILL WITH A LEAN (1 TO 8) MIXTURE OF CEMENT AND SAND OR CEMENT, SAND AND PEA GRAVEL RAMMED OR BLOWN INTO PLACE DRY. SOME POSITIVE MEANS TO ASSURE THAT THE SPACE IS COMPLETELY FILLED, FREE OF ANY VOIDS, SHALL BE USED.

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



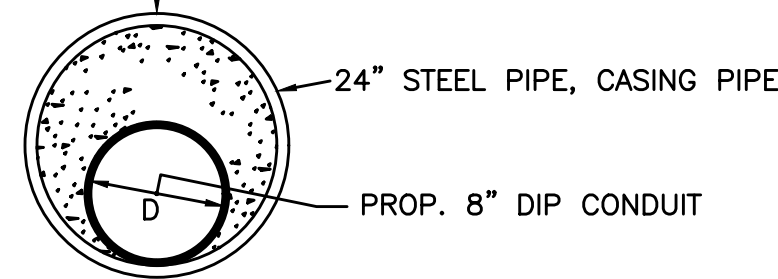
NO SCALE

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

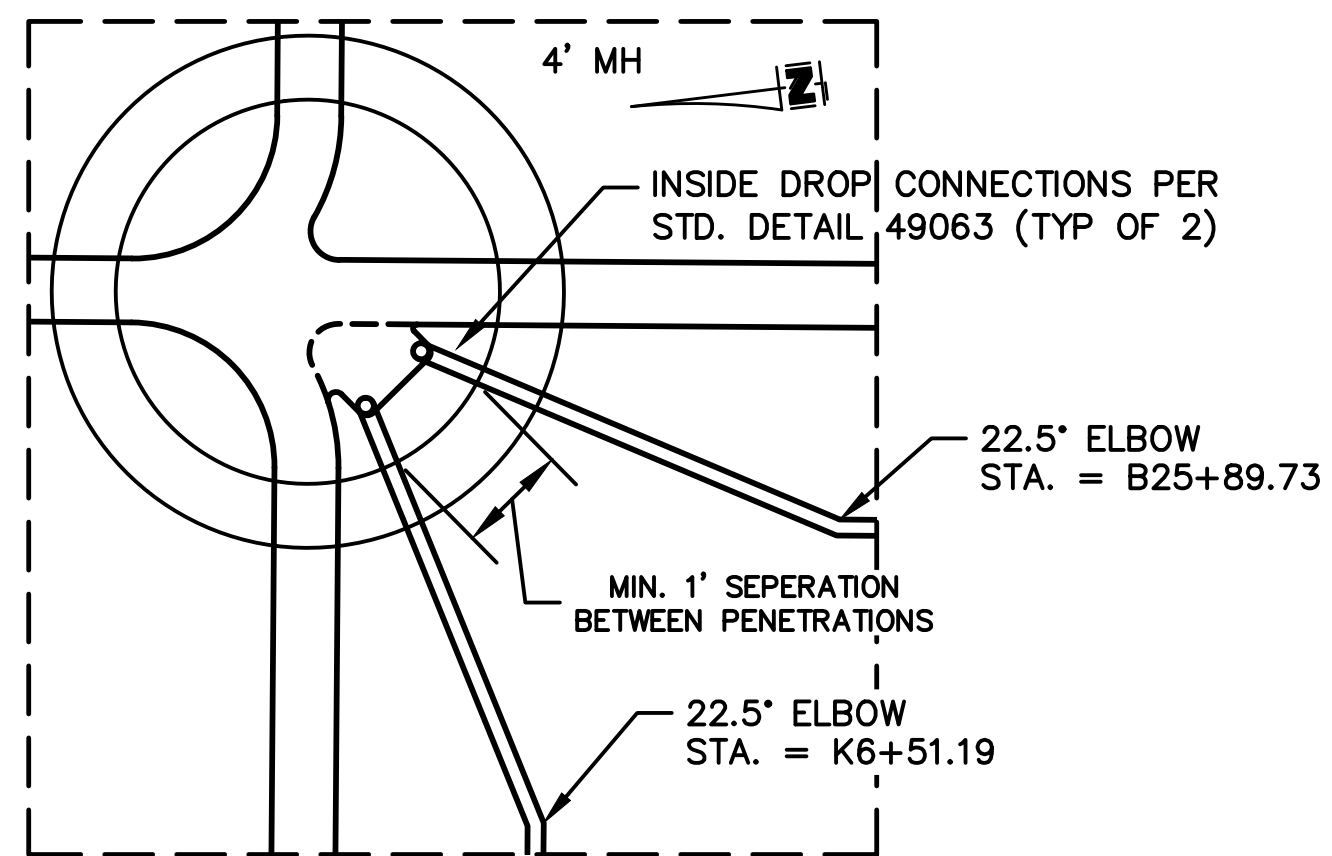


FILL WITH A LEAN (1 TO 8) MIXTURE OF CEMENT AND SAND OR CEMENT, SAND AND PEA GRAVEL RAMMED OR BLOWN INTO PLACE DRY. SOME POSITIVE MEANS TO ASSURE THAT THE SPACE IS COMPLETELY FILLED, FREE OF ANY VOIDS, SHALL BE USED.

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

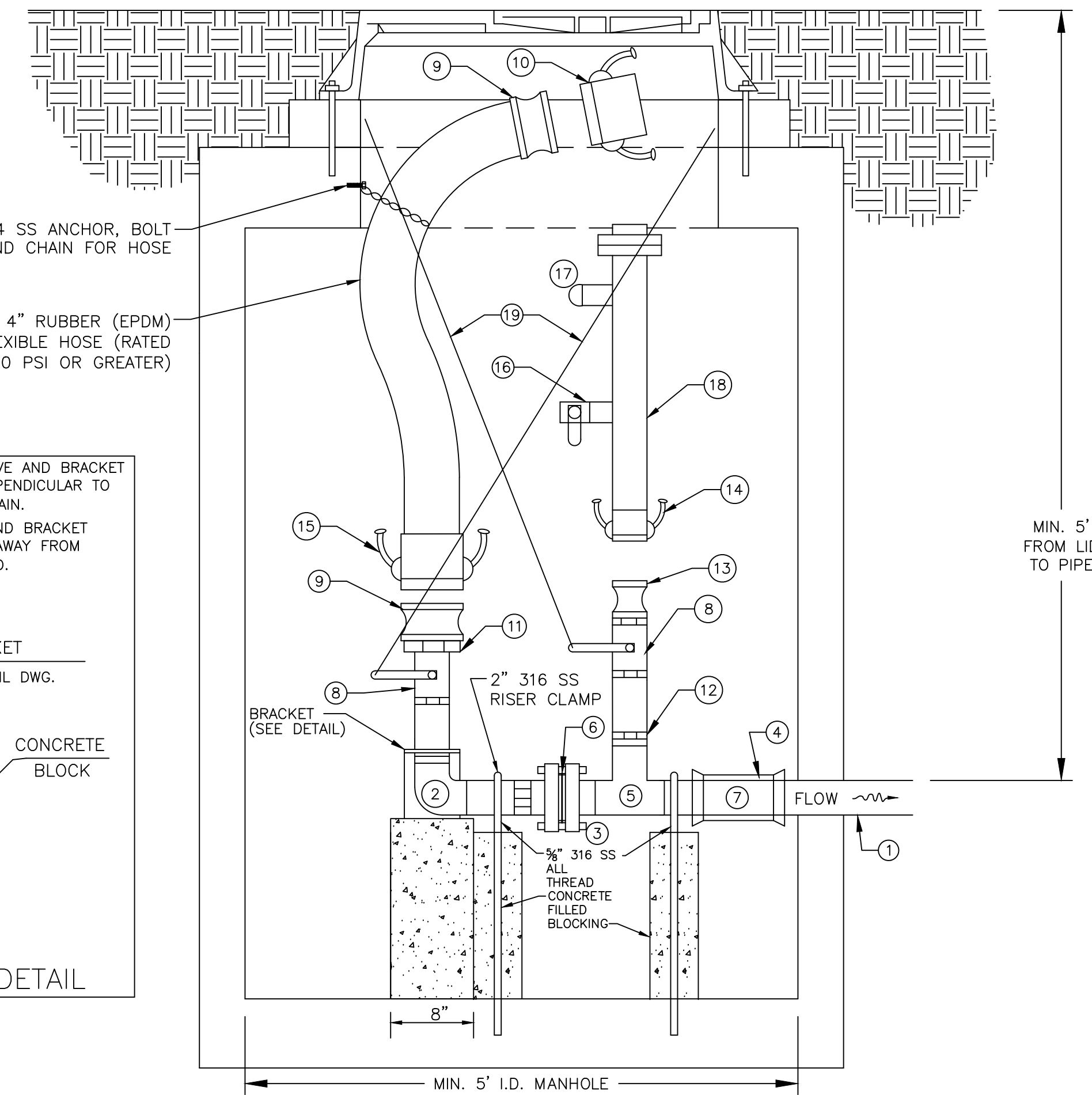
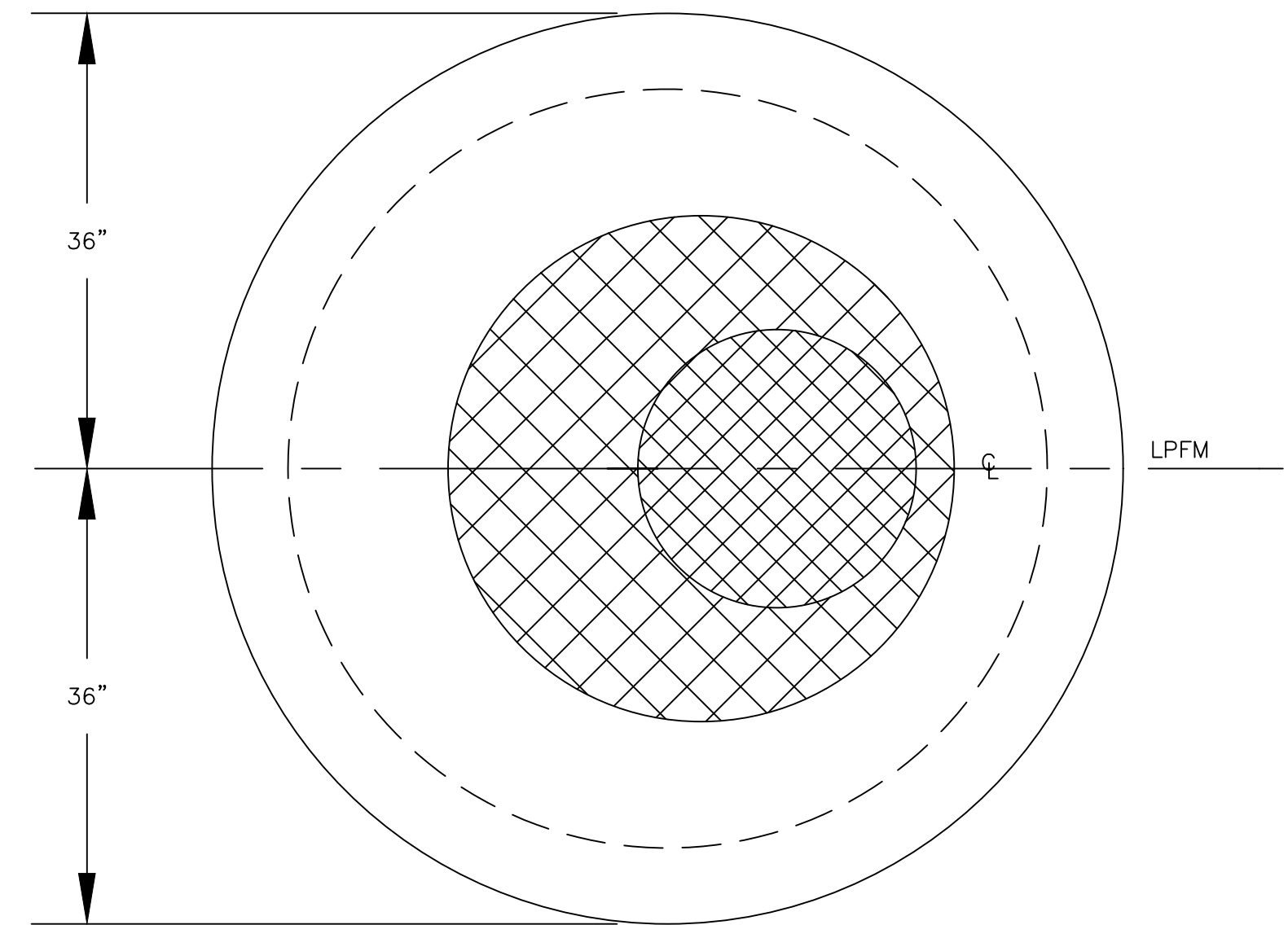


**PROP. MH 23 DETAIL PLAN**

SCALE: 1"=2'  
SEE SHEET 25

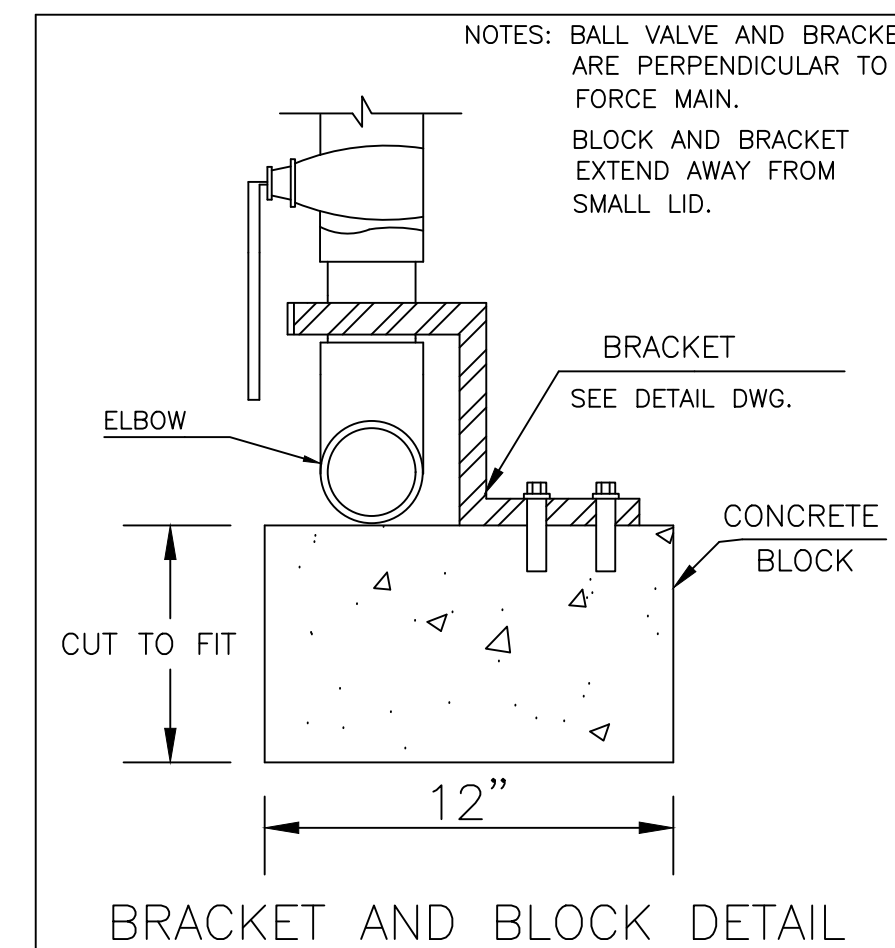
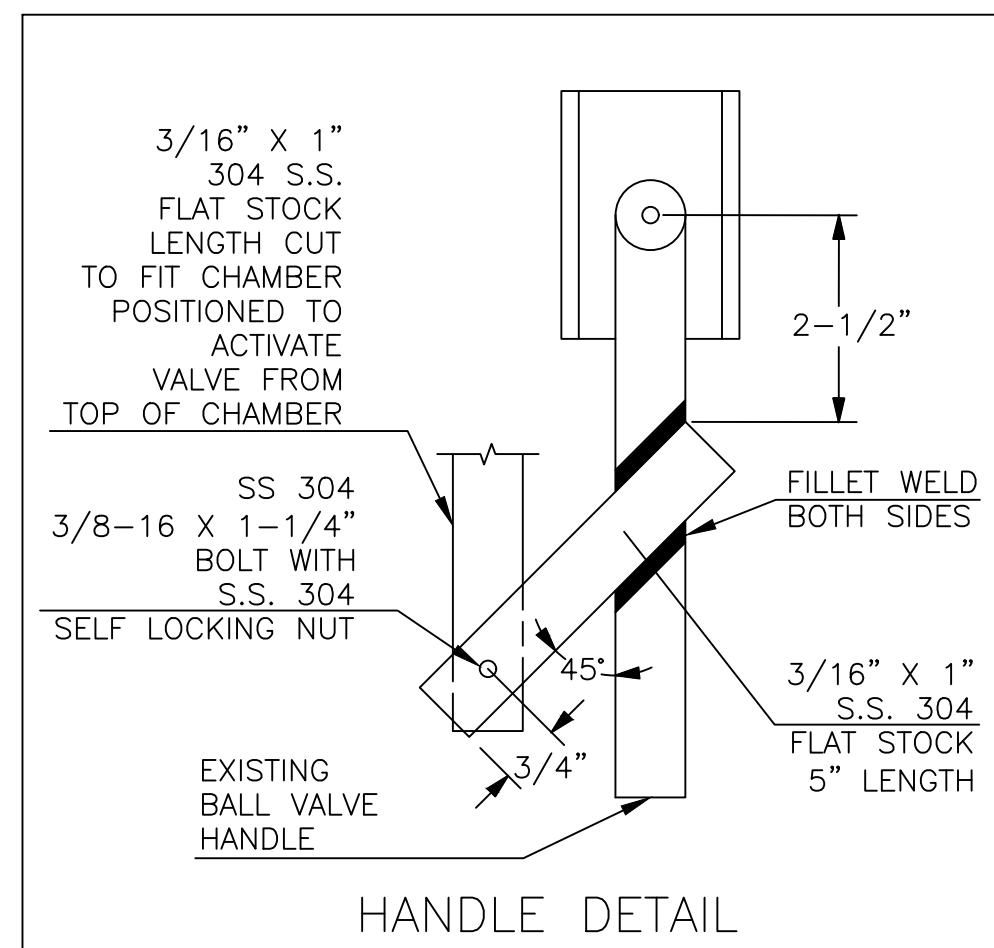
**MATERIAL LIST - ALL MATERIAL TO BE 316 STAINLESS STEEL**

- ① 2" SCHEDULE 40 PVC SOCKET FEMALE ADAPTER OR HDPE EQUIVALENT
- ② 2" 90° ELBOW
- ③ 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
- ④ 2" THREADED PIPE CUT TO LENGTH
- ⑤ 2"x2"x2" TEE
- ⑥ 1/8" RUBBER GASKET
- ⑦ ROMAC MODEL #511 EPOXY COATED WITH SS HARDWARE
- ⑧ 2" FULL PORT BALL VALVE
- ⑨ 4" MALE CAMLOCK
- ⑩ 4" DUST CAP
- ⑪ 2"x4" REDUCER
- ⑫ 2" NIPPLE
- ⑬ 2" MALE CAMLOCK
- ⑭ 2" FEMALE CAMLOCK WITH HITCH PINS INSTALLED IN LOCK POSITION
- ⑮ 4" FEMALE CAMLOCK WITH HITCH PINS INSTALLED IN LOCK POSITION
- ⑯ 1" PIPE CAP
- ⑰ VENT-TECH OR VENT-O-MAT AIR RELEASE VALVE
- ⑱ VALVE ACTIVATION HANDLES (SEE DETAIL)



**2 INCH TERMINAL AIR RELEASE VALVE (ARV) AND FLUSHING MANHOLE**

NOT TO SCALE



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



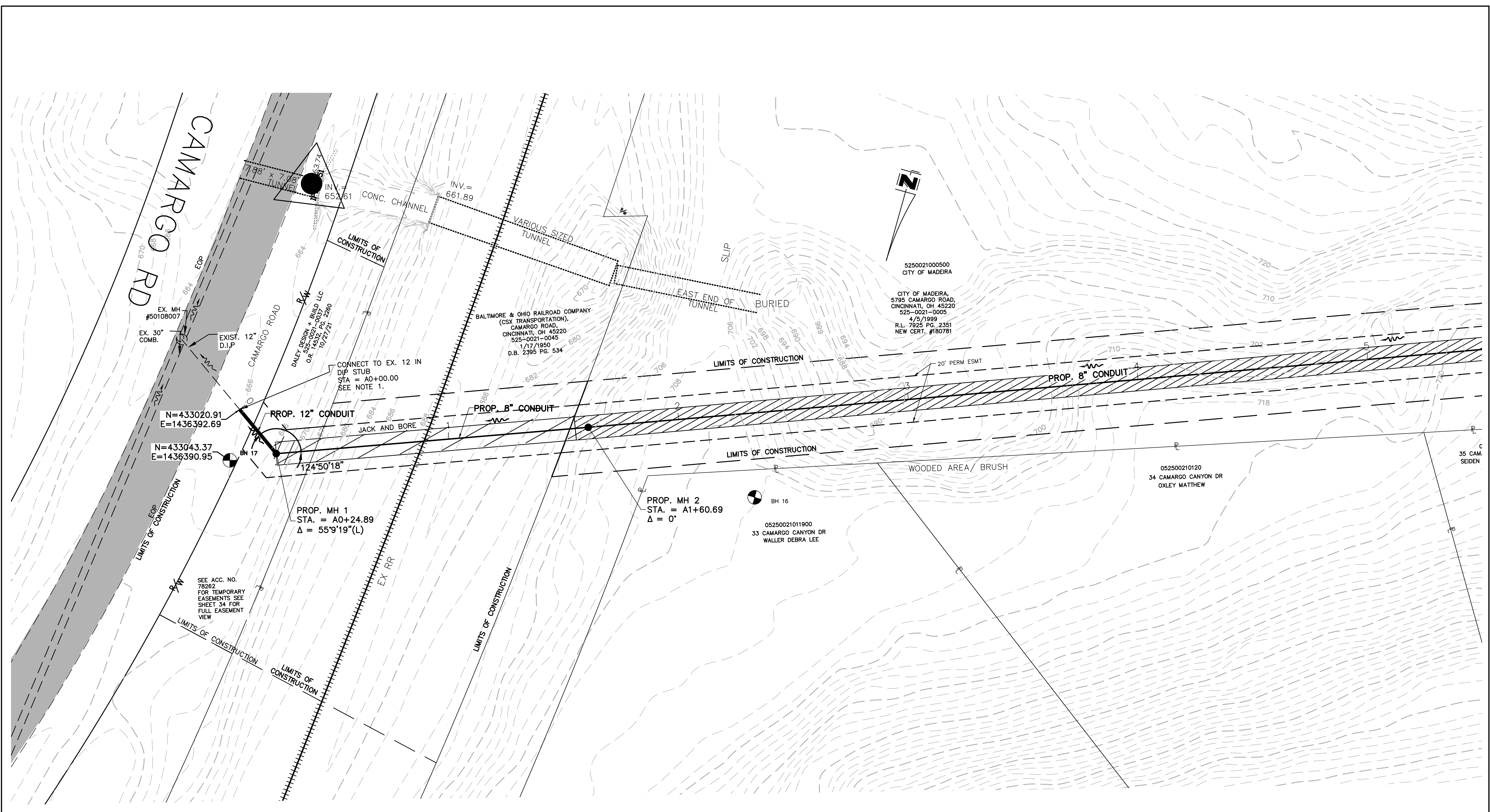
THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO

**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"=20'  
VERT. 1"=10'

**NOTES & DETAILS**  
**PLAN AND PROFILE**

PATH: N:\JOBS\2018\18926 - KENWOOD HILLS LOCAL SEWER WATER\600 CAD\SSA\BASE\KENWOOD HILLS BASEMAP.DWG  
 DATE: Sep 11, 2024 - 03:44 PM  
 PLOTTED BY: RUMMINS



DESIGNED BY: GEW		REVISIONS	
BY:	DATE:	REVISIONS	DESCRIPTION:



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

**RAILROAD ESMT**  
**PLAN AND PROFILE**