

BUT SR 122 6.50R

MODEL: Sheet PAPERSize: 34x22 (in.) DATE: 9/4/2025 TIME: 6:52:52 AM USER: mbailey5
pw:\vhofiddt-pw.bentley.com\chiodot-pw-02\Documents\01 Active Projects\District 08\Butler\112977\400-Engineering\Roadway\Sheets\112977_GG001.dgn

[illegible]

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER

MLB

REVIEWER

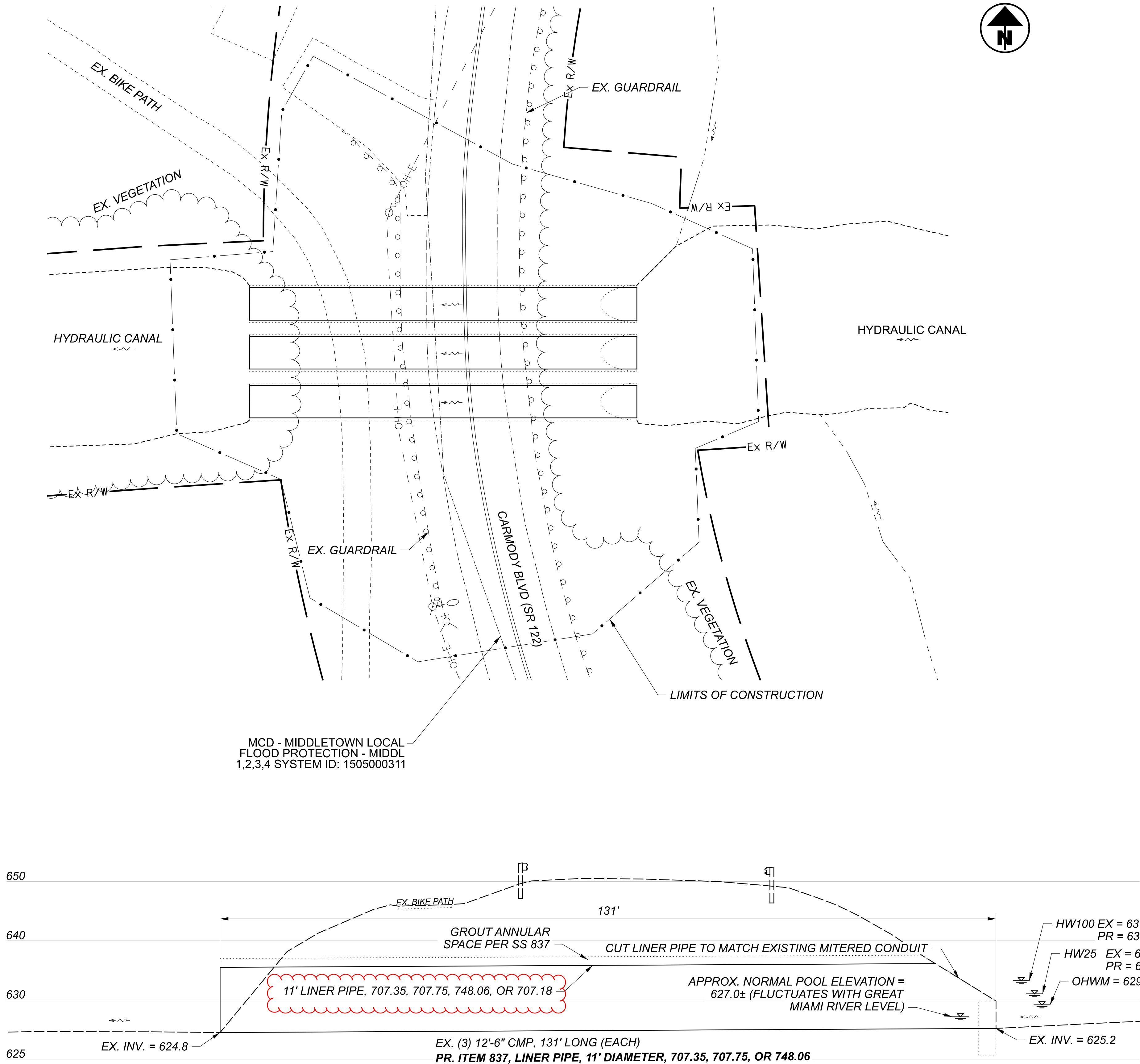
XXX MM-DD-YY

PROJECT ID

112977

SHEET

TOTAL



HYDRAULIC DATA
DRAINAGE AREA = 4.458 SQ. MI.
Q25 = 821 CFS
Q100 = 1039 CFS
V 25 = 6.6 FPS
V 100 = 5.6 FPS
Q 2x HIGH MONTHLY = 24 CFS

REHABILITATE CULVERT BUT-122-0650R BY PERFORMING THE FOLLOWING WORK:

1. REMOVE TREES WITHIN THE R/W THAT ARE ALSO WITHIN 20 FEET OF THE STRUCTURE.
2. CLEAN EXISTING CULVERTS OF SEDIMENT AND DEBRIS AND ANY BITUMINOUS COATING THAT EXISTS PER THE NOTE ON THIS SHEET.
3. LINE THE EXISTING CORRUGATED METAL PIPES WITH A NEW PIPE OF SMALLER DIAMETER.
4. GROUT THE ANNULAR SPACE BETWEEN THE EXISTING PIPE AND THE HOST PIPE.

EXISTING STRUCTURE	
TYPE:	TRIPLE BARREL ROUND
SIZE:	3 - 12'-6" DIAMETER, 131' LONG
SKEW:	16° R.F.
ALIGNMENT:	TANGENT
STRUCTURE FILE NUMBER (SFN):	0902233
DATE BUILT:	1960
CONDITION:	POOR
COORDINATES:	LATITUDE: 39.516823 LONGITUDE: -84.410204
STREAM NAME:	HYDRAULIC CANAL IN MIDDLETOWN
OHWM:	629.2 (CULVERT INVERT = 625.2)

ESTIMATED QUANTITIES (CARRIED TO GENERAL SUMMARY)			
ITEM	QUANTITY	UNIT	DESCRIPTION
201	LS	LS	CLEARING AND GRUBBING, AS PER PLAN
202	393	FT	PIPE CLEANOUT, OVER 48"
503	LS	LS	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN
837	393	FT	LINER PIPE, 132", 707.35, 707.75, 748.06, OR 707.18
837	393	FT	BACKFILL FOR LINER PIPE

PIPE CLEANOUT

REMOVE ANY LOOSE EXISTING BITUMINOUS COATING AND REMAINING BITUMINOUS MATERIAL COATING. REMOVE THE MATERIAL USING METHODS ACCORDING TO 512.03.F, MECHANICAL MEANS OR OTHER METHODS APPROVED BY THE ENGINEER. ANY BITUMINOUS COATING OR MATERIAL THAT SURVIVES A 7,000 PSI WATER BLASTING MAY REMAIN IN PLACE. ENSURE THAT ALL WASTES GENERATED BY THE SURFACE PREPARATION OPERATION ARE MANAGED IN ACCORDANCE WITH 107.19.

REMOVE SEDIMENT AND DEBRIS FROM EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. ALL MATERIAL REMOVED SHALL BE DISPOSED OF AS PER 105.16 AND 105.17. ALL SEWERS SHELL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

HORIZONTAL SCALE IN FEET
0 10 20 40

BUT-122-0650R
CULVERT PLAN & PROFILE

DESIGN AGENCY

DESIGNER
MLB

REVIEWER
XXX MM-DD-YY

PROJECT ID
112977

SHEET 05 TOTAL 05